ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: LAB CONTROL

Lab Sample ID: QM04LCS
LIMS ID: 10-5092
Matrix: Water
Data Release Authorized:
Reported: 03/31/10

QC Report No: QM04-Floyd/Snider
Project: Lora Lake Apartments
POS-LLA
Date Sampled: NA
Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Arsenic	200.8	26.8	25.0	107%	

Reported in µg/L

N-Control limit not met
Control Limits: 80-120%

Calibration Verification

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Floyd/Snider

PROJECT: Lora Lake Apartments

SDG: QM04

UNITS: ug/L

ANALYTE	EL	M	RUN	ICVTV	ICV	%R	CCVTV	CCV1	%R	CCV2	%R	CCV3	%R	CCV4	%R	CCV5	%R
Arsenic	AS	PMS	MS033081	50.0	50.23	100.5	50.0	50.81	101.6	50.59	101.2	50.79	101.6	49.64	99.3	50.58	101.2

Control Limits: Mercury 80-120; Other Metals 90-110

Calibration Verification

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Floyd/Snider

PROJECT: Lora Lake Apartments

SDG: QM04

UNITS: ug/L

ANALYTE	EL	M	RUN	CCVTV	CCV6	%R	CCV7	%R	CCV8	%R	CCV9	%R	CCV10	%R	CCV11	%R
Arsenic	AS	PMS	MS033081	50.0	50.48	101.0	51.14	102.3	50.94	101.9	51.19	102.4	50.72	101.4	50.99	102.0

Control Limits: Mercury 80-120; Other Metals 90-110

Calibration Verification

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Floyd/Snider

PROJECT: Lora Lake Apartments

UNITS: ug/L

SDG: QM04

ANALYTE	EL	M	RUN	CCVTV	CCV12	%R	CCV13	%R	CCV14	%R	CCV15	%R	CCV16	%R	CCV17	%R
Arsenic	AS	PMS	MS033081	50.0	51.09	102.2										

Control Limits: Mercury 80-120; Other Metals 90-110

CRDL Standard

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Floyd/Snider

PROJECT: Lora Lake Apartments

SDG: QM04

UNITS: ug/L

ANALYTE	EL	M	RUN	CRA/I	TV	CR-1	%R	CR-2	%R	CR-3	%R	CR-4	%R	CR-5	%R	CR-6	%R
Arsenic	AS	PMS	MS033081		0.2	0.20	100.0										

Control Limits: no control limits have been established by the EPA at this time.

Calibration Blanks

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Floyd/Snider

PROJECT: Lora Lake Apartments

SDG: QM04

UNITS:ug/L

ANALYTE	EL	METH	RUN	CRDL	IDL	ICB	C	CCB1	C	CCB2	C	CCB3	C	CCB4	C	CCB5	C
Arsenic	AS	PMS	MS033081	10.0	0.2	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U

Calibration Blanks

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Floyd/Snider

PROJECT: Lora Lake Apartments

SDG: QM04

UNITS:ug/L

ANALYTE	EL	METH	RUN	CRDL	IDL	CCB6	C	CCB7	C	CCB8	C	CCB9	C	CCB10	C	CCB11	C
Arsenic	AS	PMS	MS033081	10.0	0.2	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U

Calibration Blanks

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Floyd/Snider

PROJECT: Lora Lake Apartments

SDG: QM04

UNITS:ug/L

ANALYTE	EL	METH	RUN	CRDL	IDL	CCB12	C	CCB13	C	CCB14	C	CCB15	C	CCB16	C	CCB17	C
Arsenic	AS	PMS	MS033081	10.0	0.2	0.2	U										

ICP Interference Check Sample

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Floyd/Snider

ICS SOURCE: I.V.

PROJECT: Lora Lake Apartments

RUNID: MS033081

SDG: QM04

INSTRUMENT ID: PE ELAN 6000

UNITS: ug/L

ANALYTE	ICSA TV	ICSAB TV	ICSA1	ICSAB1	%R	ICSA2	ICSAB2	%R	ICSA3	ICSAB3	%R
Arsenic		20	0.1	20.3	**101.5**						
Cadmium		20	0.1	20.6	**103.0**						
Chromium		20	0.5	20.2	**101.0**						
Cobalt		20	0.0	18.4	**92.0**						
Copper		20	0.4	20.6	**103.0**						
Lead			0.1	0.1							
Manganese		20	0.2	19.2	**96.0**						
Molybdenum	400	400	453.9	459.1	**114.8**						
Nickel		20	0.5	20.8	**104.0**						
Silver		20	0.0	18.7	**93.5**						
Vanadium			0.0	-0.4							
Zinc		20	1.2	21.0	**105.0**						

IDLs and ICP Linear Ranges

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Floyd/Snider

PROJECT: Lora Lake Apartments

SDG: QM04 UNITS: ug/L

ANALYTE	EL	METH	INSTRUMENT	WAVELENTH (nm)	GFA BACK-GROUND	CLP CRDL	RL	RL DATE	ICP LINEAR RANGE (ug/L)	ICP LR DATE
Arsenic	AS	PMS	PE ELAN 6000 MS	0.00		10	0.2	4/1/2009		

Preparation Log

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Floyd/Snider

PROJECT: Lora Lake Apartments

SDG: QM04

ANALYSIS METHOD: PMS

ARI PREP CODE: REN

PREPDATE: 3/3/2010

CLIENT ID	ARI ID	MASS (g)	INITIAL VOLUME (mL)	FINAL VOLUME (mL)
CB31A022710COMP	QM04A	0.000	50.0	25.0
CB31A022710COMPD	QM04ADUP	0.000	50.0	25.0
CB31A022710COMPS	QM04ASPK	0.000	50.0	25.0
CB4857022710COMP	QM04B	0.000	50.0	25.0
CB1022710COMP	QM04C	0.000	50.0	25.0
CB102022710COMP	QM04D	0.000	50.0	25.0
CB31A022710COMP	QM04E	0.000	50.0	25.0
CB31A022710COMPD	QM04EDUP	0.000	50.0	25.0
CB31A022710COMPS	QM04ESPK	0.000	50.0	25.0
CB4857022710COMP	QM04F	0.000	50.0	25.0
CB1022710COMP	QM04G	0.000	50.0	25.0
CB102022710COMP	QM04H	0.000	50.0	25.0
PBW	QM04MB1	0.000	50.0	25.0
LCSW	QM04MB1SPK	0.000	50.0	25.0
PBW	QM04MB2	0.000	50.0	25.0
LCSW	QM04MB2SPK	0.000	50.0	25.0

Analysis Run Log

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Floyd/Snider

PROJECT: Lora Lake Apartments | INSTRUMENT ID: PE ELAN 6000 MS | START DATE: 3/30/2010

SDG: QM04 | RUNID: MS033081 METHOD: PMS | END DATE: 3/31/2010

CLIENT ID	ARI ID	DIL.	TIME	%R	AG	AL	AS	B	BA	BE	CA	CD	CO	CR	CU	FE	HG	K	MG	MN	MO	NA	NI	PB	SB	SE	SI	SN	TI	TL	U	V	ZN
S0	S0	1.00	09500				X																										
S1	S1	1.00	09580				X																										
S2	S2	1.00	10050				X																										
S3	S3	1.00	10130				X																										
S4	S4	1.00	10210				X																										
ZZZZZZ	Rinse Sampl	1.00	10290																														
S0	S0	1.00	10360				X																										
ICV	MICV	1.00	10440				X																										
ICB	ICB	1.00	10510				X																										
CCV	MCCV1	1.00	10590				X																										
CCB	CCB1	1.00	11060				X																										
CRI	MCRI	1.00	11140				X																										
ICSA	ICSAI	1.00	11210				X																										
ICSAB	ICSABI	1.00	11290				X																										
ZZZZZZ	LC	1.00	11360																														
ZZZZZZ	LR200	1.00	11440																														
ZZZZZZ	LR300	1.00	11520																														
CCV	MCCV2	1.00	12000				X																										
CCB	CCB2	1.00	12070				X																										
ZZZZZZ	ZZZZZZ	25.00	12160																														
ZZZZZZ	QJ39B	5.00	12220																														
ZZZZZZ	QJ39BDUP	5.00	12290																														
ZZZZZZ	QJ39BSPK	5.00	12360																														
ZZZZZZ	QJ39D	5.00	12430																														
ZZZZZZ	QJ39E	5.00	12500																														
ZZZZZZ	QJ39F	5.00	12560																														
ZZZZZZ	QJ17B	2.00	13030																														
ZZZZZZ	QJ17C	2.00	13100																														
ZZZZZZ	QJ17E	2.00	13170																														
CCV	MCCV3	1.00	13240				X																										
CCB	CCB3	1.00	13310				X																										
ZZZZZZ	QJ17A-L	25.00	13390																														
ZZZZZZ	QJ17A	5.00	13460																														
ZZZZZZ	QJ17ADUP	5.00	13530																														
ZZZZZZ	QJ17ASPK	5.00	14000																														

FORM XIV

QM04-033081

Analysis Run Log

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Floyd/Snider

PROJECT: Lora Lake Apartments | INSTRUMENT ID: PE ELAN 6000 MS | START DATE: 3/30/2010

SDG: QM04 | RUNID: MS033081 | METHOD: PMS | END DATE: 3/31/2010

CLIENT ID	ARI ID	DIL.	TIME	%R	AG	AL	AS	B	BA	BE	CA	CD	CO	CR	CU	FE	HG	K	MG	MN	MO	NA	NI	PB	SB	SE	SI	SN	TI	TL	U	V	ZN
ZZZZZZ	QJ17F	2.00	14080																														
ZZZZZZ	QJ17I	2.00	14160																														
ZZZZZZ	QJ17L	2.00	14230																														
ZZZZZZ	QJ17O	2.00	14290																														
ZZZZZZ	QJ17Q	2.00	14360																														
ZZZZZZ	QJ71C	2.00	14430																														
CCV	MCCV4	1.00	14500				X																										
CCB	CCB4	1.00	14570				X																										
ZZZZZZ	QJ71MB1	2.00	15120																														
ZZZZZZ	QJ71MB1SPK	2.00	15190																														
ZZZZZZ	QJ71B-L	10.00	15260																														
ZZZZZZ	QJ71B	2.00	15330																														
ZZZZZZ	QJ71BDUP	2.00	15410																														
ZZZZZZ	QJ71BSPK	2.00	15490																														
ZZZZZZ	QJ71D	2.00	15550																														
ZZZZZZ	QJ71E	2.00	16020																														
ZZZZZZ	QK01B	2.00	16090																														
ZZZZZZ	QK01C	2.00	16160																														
CCV	MCCV5	1.00	16230				X																										
CCB	CCB5	1.00	16300				X																										
ZZZZZZ	QK01D	2.00	16380																														
ZZZZZZ	QK01E	2.00	16440																														
ZZZZZZ	QK15B	2.00	16510																														
ZZZZZZ	QK15C	2.00	16590																														
ZZZZZZ	QK15D	2.00	17070																														
ZZZZZZ	QK15E	2.00	17130																														
ZZZZZZ	QK15F	2.00	17200																														
ZZZZZZ	QK15G	2.00	17270																														
ZZZZZZ	QK15H	2.00	17340																														
ZZZZZZ	QK15I	2.00	17410																														
CCV	MCCV6	1.00	17480				X																										
CCB	CCB6	1.00	17550				X																										
ZZZZZZ	QK39MB1	2.00	18030																														
ZZZZZZ	QK39MB1SPK	2.00	18090																														
ZZZZZZ	QK39B-L	10.00	18160																														

Analysis Run Log

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Floyd/Snider

PROJECT: Lora Lake Apartments | INSTRUMENT ID: PE ELAN 6000 MS | START DATE: 3/30/2010

SDG: QM04 | RUNID: MS033081 METHOD: PMS | END DATE: 3/31/2010

CLIENT ID	ARI ID	DIL.	TIME	%R	AG	AL	AS	B	BA	BE	CA	CD	CO	CR	CU	FE	HG	K	MG	MN	MO	NA	NI	PB	SB	SE	SI	SN	TI	TL	U	V	ZN
ZZZZZZ	QK39B	2.00	18240																														
ZZZZZZ	QK39BDUP	2.00	18320																														
ZZZZZZ	QK39BSPK	2.00	18390																														
ZZZZZZ	ZZZZZZ	2.00	18450																														
ZZZZZZ	QK39C	2.00	18520																														
ZZZZZZ	QJ39E	10.00	18590																														
ZZZZZZ	QJ17B	5.00	19060																														
CCV	MCCV7	1.00	19120				X																										
CCB	CCB7	1.00	19200				X																										
ZZZZZZ	QK39D	2.00	19270																														
ZZZZZZ	QK39E	2.00	19340																														
ZZZZZZ	QK39F	2.00	19410																														
ZZZZZZ	QK56B	2.00	19490																														
ZZZZZZ	QK56C	2.00	19570																														
ZZZZZZ	QK56D	2.00	20030																														
ZZZZZZ	QK56E	2.00	20100																														
ZZZZZZ	QK72B	2.00	20170																														
ZZZZZZ	QK72C	2.00	20240																														
ZZZZZZ	QK72D	5.00	20310																														
CCV	MCCV8	1.00	20370				X																										
CCB	CCB8	1.00	20450				X																										
ZZZZZZ	QK91MB1	2.00	20520																														
ZZZZZZ	QK91MB1SPK	2.00	20590																														
ZZZZZZ	QK91B-L	10.00	21060																														
ZZZZZZ	QK91B	2.00	21140																														
ZZZZZZ	QK91BDUP	2.00	21210																														
ZZZZZZ	QK91BSPK	2.00	21280																														
ZZZZZZ	ZZZZZZ	2.00	21350																														
ZZZZZZ	QK91C	2.00	21420																														
ZZZZZZ	QK91D	2.00	21490																														
ZZZZZZ	QL06D	5.00	21550																														
CCV	MCCV9	1.00	22020				X																										
CCB	CCB9	1.00	22100				X																										
PBW	QM04MB1	2.00	22170				X																										
PBW	QM04MB2	2.00	22240				X																										

Analysis Run Log

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Floyd/Snider

PROJECT: Lora Lake Apartments | INSTRUMENT ID: PE ELAN 6000 MS | START DATE: 3/30/2010

SDG: QM04 | RUNID: MS033081 | METHOD: PMS | END DATE: 3/31/2010

CLIENT ID	ARI ID	DIL.	TIME	%R	AG	AL	AS	B	BA	BE	CA	CD	CO	CR	CU	FE	HG	K	MG	MN	MO	NA	NI	PB	SB	SE	SI	SN	TI	TL	U	V	ZN
LCSW	QM04MB2SPK	2.00	22310				X																										
LCSW	QM04MB1SPK	2.00	22390				X																										
CB4857022710COMP	QM04B	2.00	22460				X																										
ZZZZZZ	QL06B	2.00	22530																														
ZZZZZZ	QL06C	2.00	23000																														
ZZZZZZ	QL06E	2.00	23070																														
ZZZZZZ	QL06F	2.00	23130																														
ZZZZZZ	QL06G	2.00	23200																														
CCV	MCCV10	1.00	23270				X																										
CCB	CCB10	1.00	23340				X																										
CB31A022710COMPD	QM04ADUP	2.00	23420				X																										
CB31A022710COMP	QM04A	2.00	23490				X																										
CB31A022710COMPS	QM04ASPK	2.00	23550				X																										
CB31A022710COMPD	QM04EDUP	2.00	00030				X																										
CB31A022710COMP	QM04E	2.00	00110				X																										
CB31A022710COMPS	QM04ESPK	2.00	00180				X																										
CB1022710COMP	QM04C	2.00	00250				X																										
CB102022710COMP	QM04D	2.00	00310				X																										
CB4857022710COMP	QM04F	2.00	00380				X																										
CB1022710COMP	QM04G	2.00	00450				X																										
CCV	MCCV11	1.00	00520				X																										
CCB	CCB11	1.00	00590				X																										
ZZZZZZ	QN10MB	20.00	01070																														
ZZZZZZ	QN10MBSPK	20.00	01130																														
ZZZZZZ	QN10A	20.00	01200																														
ZZZZZZ	QN10B	20.00	01280																														
ZZZZZZ	QN10C	20.00	01360																														
CB102022710COMP	QM04H	2.00	01420				X																										
CCV	MCCV12	1.00	01490				X																										
CCB	CCB12	1.00	01570				X																										

QM04-033S

Metals Analysis
Sample Data

prepared
for

Floyd/Snider

Project: Lora Lake Apartments, POS-LLA

ARI JOB NO: QM04

prepared
by

Analytical Resources, Inc.

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: CB31A022710COMP
SAMPLE

Lab Sample ID: QM04A
LIMS ID: 10-5087
Matrix: Water
Data Release Authorized:
Reported: 03/31/10

QC Report No: QM04-Floyd/Snider
Project: Lora Lake Apartments
POS-LLA
Date Sampled: 02/27/10
Date Received: 03/01/10

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	03/03/10	200.8	03/30/10	**7440-38-2**	**Arsenic**	0.2	**0.7**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: CB4857022710COMP
SAMPLE

Lab Sample ID: QM04B
LIMS ID: 10-5088
Matrix: Water
Data Release Authorized:
Reported: 03/31/10

QC Report No: QM04-Floyd/Snider
Project: Lora Lake Apartments
POS-LLA
Date Sampled: 02/27/10
Date Received: 03/01/10

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	03/03/10	200.8	03/30/10	**7440-38-2**	**Arsenic**	0.2	**0.5**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: CB1022710COMP
SAMPLE

Lab Sample ID: QM04C
LIMS ID: 10-5089
Matrix: Water
Data Release Authorized:
Reported: 03/31/10

QC Report No: QM04-Floyd/Snider
Project: Lora Lake Apartments
POS-LLA
Date Sampled: 02/27/10
Date Received: 03/01/10

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	03/03/10	200.8	03/30/10	**7440-38-2**	**Arsenic**	0.2	**0.5**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: CB102022710COMP
SAMPLE

Lab Sample ID: QM04D
LIMS ID: 10-5090
Matrix: Water
Data Release Authorized:
Reported: 03/31/10

QC Report No: QM04-Floyd/Snider
Project: Lora Lake Apartments
POS-LLA
Date Sampled: 02/27/10
Date Received: 03/01/10

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	03/03/10	200.8	03/30/10	**7440-38-2**	**Arsenic**	0.2	**0.4**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: CB31A022710COMP
SAMPLE

Lab Sample ID: QM04E
LIMS ID: 10-5091
Matrix: Water
Data Release Authorized:
Reported: 03/31/10

QC Report No: QM04-Floyd/Snider
Project: Lora Lake Apartments
POS-LLA
Date Sampled: 02/27/10
Date Received: 03/01/10

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	03/03/10	200.8	03/30/10	**7440-38-2**	**Arsenic**	0.2	**0.4**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: CB4857022710COMP
SAMPLE

Lab Sample ID: QM04F
LIMS ID: 10-5092
Matrix: Water
Data Release Authorized:
Reported: 03/31/10

QC Report No: QM04-Floyd/Snider
Project: Lora Lake Apartments
POS-LLA
Date Sampled: 02/27/10
Date Received: 03/01/10

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	03/03/10	200.8	03/30/10	**7440-38-2**	**Arsenic**	0.2	**0.3**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: CB1022710COMP
SAMPLE

Lab Sample ID: QM04G
LIMS ID: 10-5093
Matrix: Water
Data Release Authorized:
Reported: 03/31/10

QC Report No: QM04-Floyd/Snider
Project: Lora Lake Apartments
POS-LLA
Date Sampled: 02/27/10
Date Received: 03/01/10

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	03/03/10	200.8	03/30/10	**7440-38-2**	**Arsenic**	0.2	**0.3**	

U-Analyte undetected at given RL
RL-Reporting Limit

FORM-I

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: CB102022710COMP
SAMPLE

Lab Sample ID: QM04H
LIMS ID: 10-5094
Matrix: Water
Data Release Authorized:
Reported: 03/31/10

QC Report No: QM04-Floyd/Snider
Project: Lora Lake Apartments
POS-LLA
Date Sampled: 02/27/10
Date Received: 03/01/10

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	03/03/10	200.8	03/30/10	**7440-38-2**	**Arsenic**	0.2	**0.3**	

U-Analyte undetected at given RL
RL-Reporting Limit

Metals Analysis
Instrument Raw Data and Logs

prepared
for

Floyd/Snider

Project: Lora Lake Apartments, POS-LLA

ARI JOB NO: QM04

prepared
by

Analytical Resources, Inc.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

ICP/MS SAMPLE RUN LOG

PE Sciex ELAN 6000 Serial No. Z13960660

Analysis Date: 3.30.10 **Analyst:** BW **Page:** 1 of 6

All corrections made by analyst unless otherwise noted. BW 3.31.10

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		std 0			2690-9
		1			2692-3
		2			↓ -4
		3			2694-13
		↓ 4			2693-2
		rinse sample			
		std 0			
		ICV			2677-1
		ICB			
		CCV1			
		CCB1			
		lowcheck			
		ICSA			Li high
		ICSAB			↓
		LC			
		LR200			
		LR300			
		CCV2			
		CCB2			
2		QJ339 ~~B~~	REW	25	Cr Cl out
	✓	QJ339 B	↓	5	↓ ↓
	↓	Bdup		↓	
		Bspk			
		↓ D			

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ICP/MS SAMPLE RUN LOG

PE Sciex ELAN 6000 Serial No. Z13960660

Analysis Date: 3.30.10 **Analyst:** BEW **Page:** 2 of 6

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
	✓	QJ39 E	REN	5	Cr rem noisy
	✓	F			
		QJ17 B		2	As
	✓	C			rem
		E			
		CCV3			^{53}Cr ^{62}Ni high
		CCB3			V2 ^{53}Cr ^{62}Ni, ^{63}Cu high
		QJ17 A-L	REN	25 ✓	As
		A		5	
		Adup		✓	
		Asp		✓	
		F		2	
		I			
		L			
		O			
		Q			
		QJ71 C			rem Cr
		CCV4			Li high ^{62}Ni high
		CCB4			V2 ^{53}Cr ^{62}Ni, ^{63}Cu high
		QJ71 MB1	REN	2	
		MB1sp			
		B-L		10	rem Cr rem As
		B		2	Sc high
		Bdup			

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ICP/MS SAMPLE RUN LOG

PE Sciex ELAN 6000 Serial No. Z13960660

Analysis Date: 3.30.10 **Analyst:** RLW **Page:** 3 of 6

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		QJ71 BSph	REW	2	Sc high rerun Cr Ag 60%
		D			
		E			
		QK01 B			
	✓	C			rerun 1/5
		CCV5			Li high ^{62}Ni high
		CCB5			↓ V2 ^{53}Cr ^{62}Ni ^{63}Cu high
		QK01 D	REW	2	Sc high rerun Cr
		E			
		QK15 B			
		C			
		D			Sc high
		E			
		F			
		G			
		H			
		I			
		CCV6			Li high ^{62}Ni high
		CCB6			↓ ^{53}Cr low ^{62}Ni ^{63}Cu high
		QK39 MB1	REW	2	
		MB1sph		↓	
		B-L		10	rerun Cr
		B		2	
		Bdup		↓	

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ICP/MS SAMPLE RUN LOG

PE Sciex ELAN 6000 Serial No. Z13960660

Analysis Date: 3.30.10 **Analyst:** BLW **Page:** 4 of 6

All corrections made by analyst unless otherwise noted. BLW 3.31.10

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		QK39 Bsdh	REW	2 ✓	rerun Cr
Z		↓ ~~ZZZZZZ Boost~~	↓	↓	
		↓ C		↓	
	✓	QJ39 E		10	Cr rerun
	✓	QJ17 B		5	use 2x
		CCV7			Li high Be low ^{62}Ni ^{82}Se Mo hig
		CCB7			↓ ^{53}Cr low ^{62}Ni high
		QK39 ~~B~~ D	REW	2	
		↓ E		↓	
		↓ F		↓	
		QK56 B			rerun Cr
		↓ C			
		↓ D			rerun Cr
		↓ E			
		QK72 B			
		↓ C		↓	
		↓ D	↓	5	
		CCV8			Li high Be low ^{62}Ni ^{82}Se high
		CCB8			↓ ^{62}Ni high
		QK91 MB1	REW	2	
		↓ MB1sdh	↓	↓ ✓	
		↓ B-L		10 ✓	rerun Cr
		↓ B		2 ✓	↓
		↓ Bdup	↓	↓ ✓	↓

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ICP/MS SAMPLE RUN LOG

PE Sciex ELAN 6000 Serial No. Z13960660

Analysis Date: 3.30.10 **Analyst:** RLW **Page:** 5 of 6

All corrections made by analyst unless otherwise noted. RLW 3.31.10

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		QK91 Bspk	REW	2 ✓	
2		~~Bspk~~			
		C			
		D			
		QL06 D		5	
		CCV9			Li high ^{62}Ni, ^{82}Se Mo high Be low
		CCB9			↓ ^{62}Ni high
		QM04 MB1	REW	2	
		MB2			
		MB2spk		✓	
		MB1spk		✓	
		B			
		QL06 B			
		C			
		E			rerun Cr
		F			↓
		G			
		CCV10			Li high Be low ^{82}Se ~~^{98}Mo~~ Mo high
		CCB10			↓ ^{53}Cr low ^{62}Ni high
		QM04 Adp	REW	2 ✓	
		A			
		Aspk		✓	
		Edp		✓	
		E			

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ICP/MS SAMPLE RUN LOG

PE Sciex ELAN 6000 Serial No. Z13960660

Analysis Date: 3.30.10 **Analyst:** RW **Page:** 6 of 6

All corrections made by analyst unless otherwise noted. RW 3.31.10

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		QM04 Esdl	REW	2 ✓	
		C ↓	↓	↓	
		D			
		F			
		G ↓	↓	↓	
		CCV 11			Li high Be low ^{82}Se Mo U high
		CCB 11			↓ V2 ^{53}Cr As2 ^{78}Se low ^{62}Ni high
		QN10 MB	SEW	20	
		MBSdl ↓	↓	↓ ✓	
		A			
		B			
		C ↓	↓	↓	
		QM04 H	REW	2	
		CCV 12			Li high Be low ^{82}Se Mo U high
		CCB2			↓ V2 ^{53}Cr low ^{62}Ni high
		QP89 MB2	REW	2	
		MB2Sdl ↓	↓	↓ ✓	
		T-L		10 ✓	
		T		2	
		Tdup		↓ ✓	
		Tsdl ↓	↓	↓ ✓	
		CCV 13			Li high Be low ^{82}Se Mo U high
		CCB13			↓ V2 ^{53}Cr low ^{62}Ni ^{69}Ni high
		5% HNO_3			
		DI rinse			

3/31/10

RW 3.31

ANALYTICAL RESOURCES INCORPORATED

Metals Data Review Checklist

Method: ICP ICP-MS GFA CVA **Analysis Date:** 3.30.10

	Analyst BW 3.31	Peer WM 3.31.10	Comment
Logbook:			
Analyst, Date, Method info	✓	✓	
Sample ID's	✓	✓	
Standard/QC solution ID's recorded	✓	✓	
Prep codes	✓	✓	
Dilution factors	✓	✓	
Crossouts/Corrections/Deletions	✓	✓	
Calibration:			
Blank & Standard intensities	✓	✓	
Standard deviations	✓	✓	
Curve fit	✓	✓	
Calibration Verification:			
ICV/CCV	✓	✓	see log
ICB/CCB	✓	✓	↓
Samples:			
RSD's & SD's	✓	✓	see log
Internal Standards	✓	✓	↓
Carry-over	✓	✓	
Method QC:			
CRI/CRA	✓	✓	
ICSA/ICSAB	✓	✓	
Post Spikes/Serial Dilutions	✓	✓	
Analytic Spikes	—	—	
Matrix QC:			
SRM/LCS	✓	✓	
Matrix Spikes	✓	✓	QJ71
Matrix Duplicates	✓	✓	
Method Blanks	✓	✓	
Data Distribution:			
Requested elements/isotope identified	✓	✓	
Correct samples identified for distribution	✓	✓	
Raw data match distributed data	✓	✓	
Data filename correct	✓	✓	
Necessary Analysts Notes and CAF's	✓	✓	QP89 QJ71

BW 3.31

Instrument Tuning Report

#1

File Name: 2008.tun
File Path: c:\elandata\Tuning

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width	Custom Res.
Be	9.012	8.925	2010	2164	0.718	
Mg	23.985	24.029	5655	2282	0.699	
Co	58.933	58.979	14152	2555	0.684	
In	114.904	114.879	27759	3007	0.688	
Pb	207.977	207.974	50411	3777	0.692	

2nd

Instrument Tuning Report

File Name: 2008.tun
File Path: c:\elandata\Tuning

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width	Custom Res.
Be	9.012	9.076	2024	2164	0.715	
Mg	23.985	23.929	5641	2282	0.702	
Co	58.933	58.929	14150	2555	0.707	
In	114.904	114.928	27764	3007	0.692	
Pb	207.977	207.976	50410	3777	0.696	

Instrument Tuning Report

3rd

File Name: 2008.tun
File Path: c:\elandata\Tuning

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width	Custom Res.
Be	9.012	9.077	2038	2164	0.730	
Mg	23.985	23.979	5639	2282	0.702	
Co	58.933	58.929	14148	2555	0.719	
In	114.904	114.929	27769	3007	0.689	
Pb	207.977	208.074	50433	3777	0.698	

Instrument Tuning Report

File Name: 2008.tun
File Path: c:\elandata\Tuning

4th

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width	Custom Res.
Be	9.012	8.926	2018	2166	0.735	
Mg	23.985	23.979	5637	2282	0.702	
Co	58.933	58.929	14146	2555	0.697	
In	114.904	114.879	27762	3007	0.706	
Pb	207.977	207.976	50432	3777	0.700	

Instrument Tuning Report

5th

File Name: 2008.tun
File Path: c:\elandata\Tuning

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width	Custom Res.
Be	9.012	8.977	2010	2169	0.703	
Mg	23.985	24.029	5647	2282	0.705	
Co	58.933	58.929	14144	2555	0.686	
In	114.904	114.929	27768	3007	0.691	
Pb	207.977	207.926	50419	3777	0.694	

Instrument Tuning Report

6th

File Name: 2008.tun
File Path: c:\elandata\Tuning

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width	Custom Res.
Be	9.012	9.075	2024	2169	0.696	
Mg	23.985	23.979	5645	2282	0.698	
Co	58.933	58.979	14154	2555	0.684	
In	114.904	114.878	27761	3007	0.697	
Pb	207.977	207.976	50418	3777	0.691	

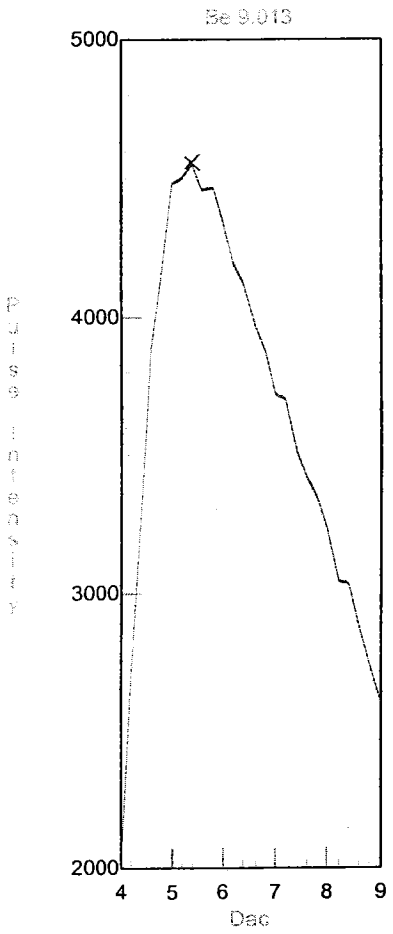
Instrument Tuning Report

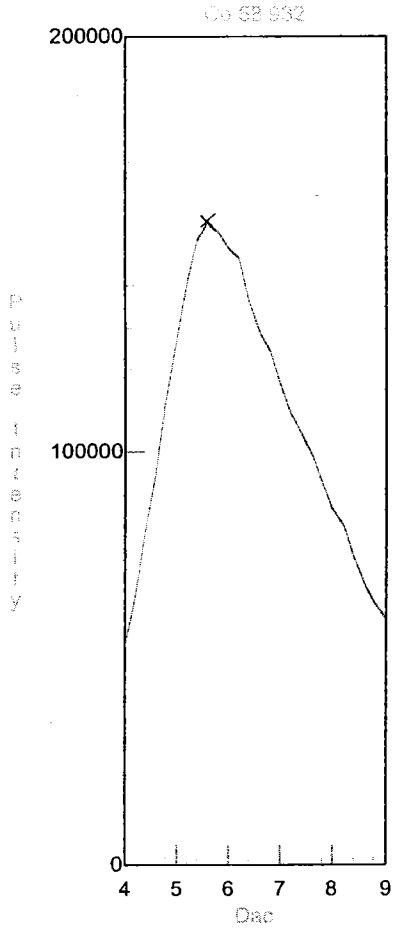
7th

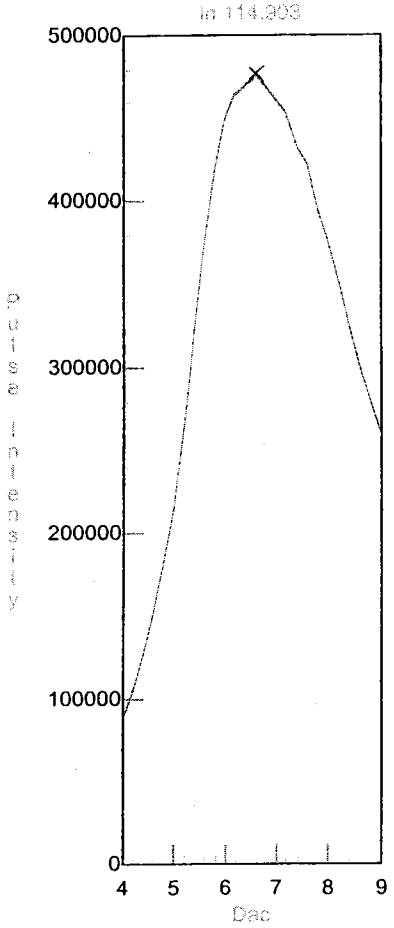
File Name: 2008.tun
File Path: c:\elandata\Tuning

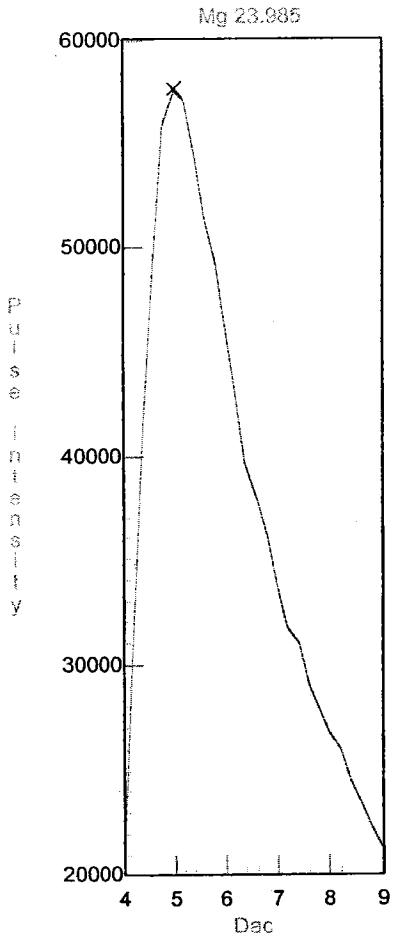
Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width	Custom Res.
Be	9.012	9.025 ✓	2026	2169	0.705	
Mg	23.985	24.029 ✓	5655	2282	0.701	✓
Co	58.933	58.929 ✓	14152	2555	0.699	
In	114.904	114.928 ✓	27766	3007	0.692	
Pb	207.977	207.976 ✓	50417	3777	0.691	

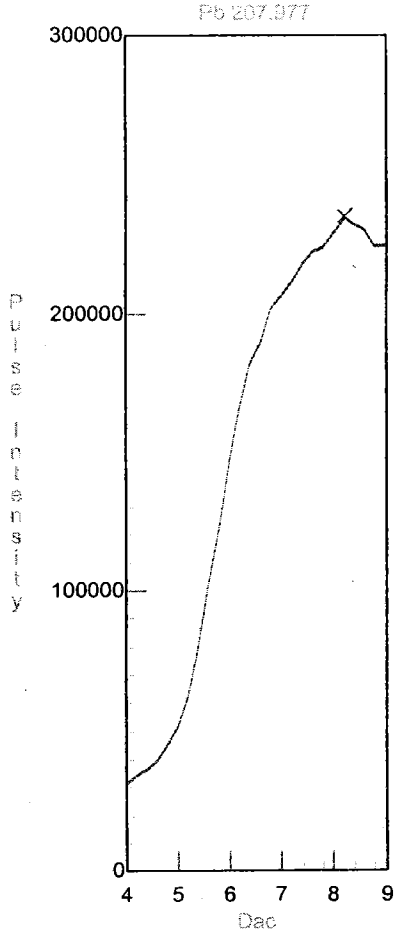
3.30.10

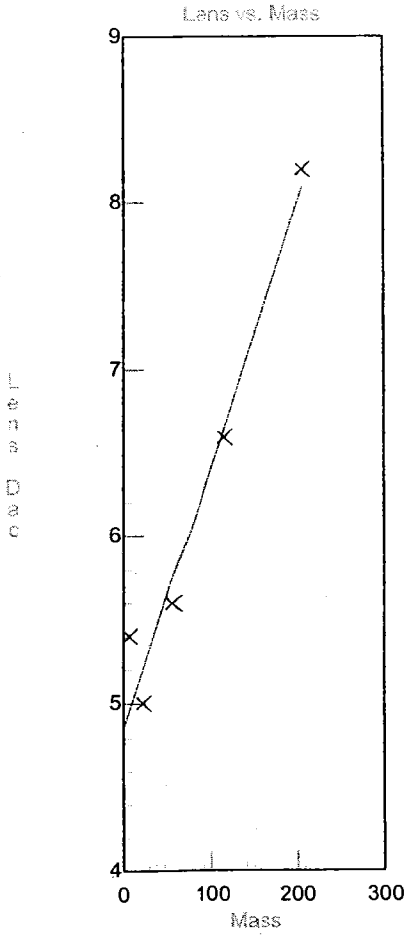

Be 9.013
Pulse Intensity
5000
4000
3000
2000
4 5 6 7 8 9
Dac


Co 58.932
Pulse Intensity
200000
100000
0
4 5 6 7 8 9
Dac


In 114.903
Pulse Intensity
500000
400000
300000
200000
100000
0
4 5 6 7 8 9
Dac


Mg 23.985
Pulse Intensity
60000
50000
40000
30000
20000
4 5 6 7 8 9
Dac


Pb 207.977
Pulse Intensity
300000
200000
100000
0
4 5 6 7 8 9
Dac


Lens vs. Mass
Lens Dac
9
8
7
6
5
4
0 100 200 300
Mass

Daily Performance Report

Sample ID: Sample
Sample Date/Time: Tuesday, March 30, 2010 09:36:07
Sample Description:
Sample File: 1120.sam
Method File: c:\elandata\Method\aridailyperf.mth
Dataset File: c:\elandata\Dataset\daily performance\Sample.6656
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Number of Replicates: 5
Dual Detector Mode: Pulse

neb 0.96

Summary

	Analyte	Mass	Net Intens. Mean	Net Intens. SD	Net Intens. RSD
	Mg	24	56777.929	602.842	1.062
	In	115	482436.930	4288.652	0.889
	Pb	208	237731.271	2593.318	1.091
⌈>	Ba	138	331174.883	720.626	0.218
⌊	Ba++	69	0.015	0.000	1.617
⌈>	Ce	140	386218.931	3228.284	0.836
⌊	CeO	156	0.023	0.001	2.969
	Bkgd	220	7.751	3.580	46.187

ICP-MS Quantitative Analysis - Summary Report

Sample ID: Blank
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, March 30, 2010 09:50:14
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
⌈>	**Li**	**6**		ug/L				292590	1
⌊	**Be**	**9**		ug/L				2	50
	C	**13**		mg/L				6495	1
	Cl	**37**		mg/L				3096517	0
⌈>	**Sc**	**45**		ug/L				275835	0
|	**V-1**	**51**		ug/L				1868	11
|	**V**	**51**		ug/L				10633	0
|	**Cr**	**52**		ug/L				6664	2
|	**Cr**	**53**		ug/L				3556	1
|	**Mn**	**55**		ug/L				515	2
⌊	**Co**	**59**		ug/L				56	6
⌈>	**Ge**	**72**		ug/L				408134	1
|	**Ni**	**60**		ug/L				80	4
|	**Ni**	**62**		ug/L				73	16
|	**Cu**	**63**		ug/L				202	6
|	**Cu**	**65**		ug/L				84	20
|	**Zn**	**66**		ug/L				345	16
|	**Zn**	**67**		ug/L				307	6
|	**Zn**	**68**		ug/L				6857	0
|	**As-1**	**75**		ug/L				538	8
|	**As**	**75**		ug/L				9057	0
|	**Se**	**82**		ug/L				0	10938
|	**Se**	**78**		ug/L				9155	0
⌊	**Mo**	**98**		ug/L				10	38
	Y	**89**		ug/L				306306	0
	Kr	**83**		ug/L				262	2
⌈>	**In**	**115**		ug/L				457631	0
|	**Ag**	**107**		ug/L				40	19
|	**Cd**	**111**		ug/L				219	7
|	**Cd**	**114**		ug/L				22	28
|	**Sb**	**121**		ug/L				18	11
|	**Sb**	**123**		ug/L				16	24
|	**Ba**	**135**		ug/L				18	6
⌊	**Ba**	**137**		ug/L				25	19
⌈>	**Tb**	**159**		ug/L				443476	0
|	**Tl**	**205**		ug/L				417	1
|	**Pb**	**208**		ug/L				1305	13
|	**Bi**	**209**		ug/L				367542	**0**
|	**Th**	**232**		ug/L				53	21
⌊	**U**	**238**		ug/L				17	15

ICP-MS Quantitative Analysis - Summary Report

Sample ID: Standard 1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, March 30, 2010 09:58:00
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
⌈>	Li	6		ug/L			292590	294713	0
⌊	Be	9	10.000	ug/L	0.280	2	2	3866	2
	C	13		mg/L			6495	5734	2
	Cl	37		mg/L			3096517	3068207	0
⌈>	Sc	45		ug/L			275835	276473	0
⌈	V-1	51	10.000	ug/L	0.190	1	1868	127958	1
⌊	V	51	10.000	ug/L	0.135	1	10633	138883	0
⌈	Cr	52	10.000	ug/L	0.114	1	6664	120876	0
⌊	Cr	53	10.000	ug/L	0.099	0	3556	17152	1
⌈	Mn	55	10.000	ug/L	0.089	0	515	197282	1
⌊	Co	59	10.000	ug/L	0.093	0	56	156015	0
⌈>	Ge	72		ug/L			408134	407879	0
⌈	Ni	60	10.000	ug/L	0.029	0	80	33369	0
⌊	Ni	62	10.000	ug/L	0.093	0	73	5218	0
⌈	Cu	63	10.000	ug/L	0.078	0	202	78446	0
⌊	Cu	65	10.000	ug/L	0.112	1	84	38204	0
⌈	Zn	66	10.000	ug/L	0.015	0	345	26338	0
⌊	Zn	67	10.000	ug/L	0.072	0	307	4699	0
⌈	Zn	68	10.000	ug/L	0.098	0	6857	25230	0
⌈	As-1	75	10.000	ug/L	0.063	0	538	23444	0
⌊	As	75	10.000	ug/L	0.111	1	9057	31955	1
⌈	Se	82	10.000	ug/L	0.072	0	0	2249	0
⌊	Se	78	10.000	ug/L	0.201	2	9155	14834	0
⌊	Mo	98	10.000	ug/L	0.083	0	10	74303	0
	Y	89		ug/L			306306	306849	0
	Kr	83		ug/L			262	252	6
⌈>	In	115		ug/L			457631	457807	0
⌈	Ag	107	10.000	ug/L	0.098	0	40	138108	0
⌊	Cd	111	10.000	ug/L	0.089	0	219	37233	0
⌈	Cd	114	10.000	ug/L	0.079	0	22	87758	0
⌊	Sb	121	10.000	ug/L	0.016	0	18	133094	0
⌈	Sb	123	10.000	ug/L	0.078	0	16	100851	0
⌈	Ba	135	10.000	ug/L	0.071	0	18	29915	0
⌊	Ba	137	10.000	ug/L	0.032	0	25	50028	0
⌈>	Tb	159		ug/L			443476	446314	0
⌈	Tl	205	10.000	ug/L	0.035	0	417	319387	0
⌊	Pb	208	10.000	ug/L	0.059	0	1305	436930	0
⌈	Bi	209		ug/L			367542	367813	1
⌊	Th	232	10.000	ug/L	0.033	0	53	511299	0
⌊	U	238	10.000	ug/L	0.139	1	17	565488	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: Standard 2
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, March 30, 2010 10:05:47
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
⌈>	Li	6		ug/L			292590	293330	0
⌊	Be	9	19.936	ug/L	0.109	0	2	7573	0
	C	13		mg/L			6495	5271	2
	Cl	37		mg/L			3096517	3007693	0
⌈>	Sc	45		ug/L			275835	274303	0
|	V-1	51	20.037	ug/L	0.065	0	1868	254409	0
|	V	51	20.045	ug/L	0.097	0	10633	267905	0
|	Cr	52	19.990	ug/L	0.103	0	6664	232690	0
|	Cr	53	20.016	ug/L	0.167	0	3556	30609	0
|	Mn	55	19.987	ug/L	0.213	1	515	389644	0
⌊	Co	59	20.004	ug/L	0.252	1	56	309816	0
⌈>	Ge	72		ug/L			408134	406073	0
|	Ni	60	19.981	ug/L	0.388	1	80	66039	1
|	Ni	62	19.875	ug/L	0.338	1	73	10004	1
|	Cu	63	19.970	ug/L	0.031	0	202	154836	0
|	Cu	65	19.991	ug/L	0.078	0	84	75824	0
|	Zn	66	19.986	ug/L	0.064	0	345	51918	0
|	Zn	67	19.999	ug/L	0.273	1	307	9048	1
|	Zn	68	20.026	ug/L	0.062	0	6857	43657	0
|	As-1	75	19.969	ug/L	0.084	0	538	45794	0
|	As	75	19.988	ug/L	0.101	0	9057	54475	0
|	Se	82	19.898	ug/L	0.274	1	0	4367	1
|	Se	78	19.988	ug/L	0.066	0	9155	20393	0
⌊	Mo	98	19.976	ug/L	0.343	1	10	147041	1
	Y	89		ug/L			306306	304388	0
	Kr	83		ug/L			262	256	3
⌈>	In	115		ug/L			457631	457503	1
|	Ag	107	20.098	ug/L	0.335	1	40	282806	0
|	Cd	111	19.935	ug/L	0.271	1	219	72994	0
|	Cd	114	19.957	ug/L	0.458	2	22	173482	0
|	Sb	121	20.006	ug/L	0.317	1	18	266322	0
|	Sb	123	19.990	ug/L	0.522	2	16	200992	1
|	Ba	135	19.963	ug/L	0.255	1	18	59216	0
⌊	Ba	137	20.001	ug/L	0.321	1	25	99961	0
⌈>	Tb	159		ug/L			443476	441197	0
|	Tl	205	20.025	ug/L	0.084	0	417	635008	0
|	Pb	208	20.035	ug/L	0.068	0	1305	870091	0
|	Bi	209		ug/L			367542	364661	0
|	Th	232	20.076	ug/L	0.269	1	53	1030346	1
⌊	U	238	20.026	ug/L	0.168	0	17	1125405	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: Standard 3
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, March 30, 2010 10:13:36
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
⌈>	Li	6		ug/L			292590	278713	0
⌊	Be	9	50.053	ug/L	0.974	1	2	18159	2
	C	13		mg/L			6495	6566	2
	Cl	37		mg/L			3096517	2980683	0
⌈>	Sc	45		ug/L			275835	265117	0
⌈	V-1	51	50.026	ug/L	0.273	0	1868	612827	0
⌊	V	51	50.029	ug/L	0.280	0	10633	632765	0
⌈	Cr	52	50.046	ug/L	0.131	0	6664	555951	0
⌊	Cr	53	50.053	ug/L	0.876	1	3556	69198	1
⌈	Mn	55	50.001	ug/L	0.407	0	515	941525	0
⌊	Co	59	49.982	ug/L	0.473	0	56	746771	0
⌈>	Ge	72		ug/L			408134	400585	0
⌈	Ni	60	49.786	ug/L	0.697	1	80	158817	0
⌊	Ni	62	49.863	ug/L	0.385	0	73	24320	0
⌈	Cu	63	49.793	ug/L	0.417	0	202	372826	0
⌊	Cu	65	49.741	ug/L	0.117	0	84	181298	0
⌈	Zn	66	49.821	ug/L	0.481	0	345	124925	0
⌊	Zn	67	49.810	ug/L	0.051	0	307	21381	0
⌈	Zn	68	49.723	ug/L	0.075	0	6857	94515	0
⌈	As-1	75	49.970	ug/L	0.622	1	538	111914	0
⌊	As	75	49.986	ug/L	0.640	1	9057	120892	0
⌈	Se	82	50.010	ug/L	0.933	1	0	10839	1
⌊	Se	78	50.094	ug/L	0.828	1	9155	37148	0
⌊	Mo	98	49.976	ug/L	0.719	1	10	361993	0
	Y	89		ug/L			306306	296473	0
	Kr	83		ug/L			262	265	4
⌈>	In	115		ug/L			457631	446194	0
⌈	Ag	107	50.613	ug/L	0.866	1	40	739991	0
⌊	Cd	111	49.950	ug/L	0.192	0	219	177212	1
⌈	Cd	114	50.010	ug/L	0.313	0	22	424473	0
⌊	Sb	121	50.040	ug/L	0.334	0	18	652374	0
⌈	Sb	123	50.066	ug/L	0.027	0	16	494329	0
⌈	Ba	135	50.004	ug/L	0.793	1	18	144699	0
⌊	Ba	137	50.040	ug/L	0.617	1	25	244887	0
⌈>	Tb	159		ug/L			443476	434715	0
⌈	Tl	205	49.866	ug/L	0.225	0	417	1536780	0
⌊	Pb	208	49.932	ug/L	0.238	0	1305	2120260	0
⌈	Bi	209		ug/L			367542	358093	0
⌈	Th	232	50.483	ug/L	0.213	0	53	2682400	0
⌊	U	238	50.470	ug/L	0.276	0	17	2932480	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: Standard 4
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, March 30, 2010 10:21:25
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			292590	261303	3
[	Be	9	99.800	ug/L	1.512	1	2	33714	2
	C	13		mg/L			6495	4835	2
	Cl	37		mg/L			3096517	2911268	0
[>	Sc	45		ug/L			275835	259534	0
[	V-1	51	100.005	ug/L	0.160	0	1868	1197746	0
[	V	51	100.049	ug/L	0.455	0	10633	1230782	1
[	Cr	52	100.025	ug/L	1.371	1	6664	1082361	1
[	Cr	53	100.154	ug/L	1.091	1	3556	132871	1
[	Mn	55	100.089	ug/L	0.434	0	515	1850007	0
[	Co	59	100.079	ug/L	0.245	0	56	1467644	0
[>	Ge	72		ug/L			408134	401861	0
[	Ni	60	99.296	ug/L	0.051	0	80	310423	0
[	Ni	62	99.505	ug/L	0.800	0	73	47830	0
[	Cu	63	99.329	ug/L	0.610	0	202	729609	0
[	Cu	65	99.425	ug/L	0.081	0	84	356632	0
[	Zn	66	99.126	ug/L	0.662	0	345	241990	0
[	Zn	67	99.300	ug/L	1.190	1	307	41500	1
[	Zn	68	99.471	ug/L	0.821	0	6857	179872	0
[	As-1	75	99.746	ug/L	0.241	0	538	221712	0
[	As	75	99.733	ug/L	0.310	0	9057	231135	0
[	Se	82	99.340	ug/L	0.561	0	0	21137	0
[	Se	78	99.297	ug/L	0.397	0	9155	63738	0
[	Mo	98	99.670	ug/L	0.736	0	10	716421	0
	Y	89		ug/L			306306	296239	0
	Kr	83		ug/L			262	262	2
[>	In	115		ug/L			457631	451922	0
[	Ag	107	99.120	ug/L	0.817	0	40	1426051	0
[	Cd	111	99.536	ug/L	1.146	1	219	351999	1
[	Cd	114	99.190	ug/L	0.392	0	22	830310	0
[	Sb	121	99.759	ug/L	0.314	0	18	1306795	0
[	Sb	123	99.765	ug/L	0.839	0	16	989903	0
[	Ba	135	99.887	ug/L	0.368	0	18	291673	0
[	Ba	137	99.947	ug/L	0.211	0	25	494525	0
[>	Tb	159		ug/L			443476	433741	0
[	Tl	205	101.550	ug/L	1.460	1	417	3292279	1
[	Pb	208	100.539	ug/L	0.259	0	1305	4336200	0
[	Bi	209		ug/L			367542	352538	1
[	Th	232	100.237	ug/L	1.179	1	53	5356316	1
[	U	238	100.074	ug/L	0.701	0	17	5815689	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: Rinse Sample
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, March 30, 2010 10:29:13
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
⌈>	Li	6		ug/L			292590	280797	0
⌊	Be	9	0.003	ug/L	0.002	79	2	3	21
	C	13		mg/L			6495	5942	1
	Cl	37		mg/L			3096517	3000511	0
⌈>	Sc	45		ug/L			275835	270744	0
|	V-1	51	0.013	ug/L	0.019	143	1868	2003	12
|	V	51	-0.145	ug/L	0.022	14	10633	8595	2
|	Cr	52	-0.048	ug/L	0.012	25	6664	6003	2
|	Cr	53	-0.521	ug/L	0.078	14	3556	2786	3
|	Mn	55	-0.004	ug/L	0.001	19	515	437	3
⌊	Co	59	0.001	ug/L	0.001	145	56	66	22
⌈>	Ge	72		ug/L			408134	406132	0
|	Ni	60	-0.001	ug/L	0.002	270	80	77	8
|	Ni	62	-0.021	ug/L	0.018	87	73	62	13
|	Cu	63	0.002	ug/L	0.001	55	202	215	4
|	Cu	65	0.003	ug/L	0.003	78	84	95	9
|	Zn	66	-0.056	ug/L	0.004	7	345	205	5
|	Zn	67	-0.132	ug/L	0.007	5	307	250	2
|	Zn	68	-0.035	ug/L	0.044	126	6857	6761	0
|	As-1	75	-0.020	ug/L	0.019	94	538	491	7
|	As	75	-0.041	ug/L	0.019	45	9057	8920	0
|	Se	82	-0.071	ug/L	0.026	35	0	-15	37
|	Se	78	-0.125	ug/L	0.065	52	9155	9040	0
⌊	Mo	98	0.007	ug/L	0.002	34	10	58	27
	Y	89		ug/L			306306	305171	0
	Kr	83		ug/L			262	268	3
⌈>	In	115		ug/L			457631	458301	0
|	Ag	107	0.003	ug/L	0.000	16	40	81	7
|	Cd	111	0.006	ug/L	0.008	138	219	239	11
|	Cd	114	0.002	ug/L	0.001	31	22	37	13
|	Sb	121	0.028	ug/L	0.005	19	18	384	18
|	Sb	123	0.025	ug/L	0.005	21	16	266	20
|	Ba	135	-0.000	ug/L	0.000	89	18	17	4
⌊	Ba	137	0.001	ug/L	0.002	235	25	30	38
⌈>	Tb	159		ug/L			443476	441784	0
|	Tl	205	-0.004	ug/L	0.001	19	417	297	7
|	Pb	208	-0.008	ug/L	0.001	10	1305	943	3
|	Bi	209		ug/L			367542	367563	0
|	Th	232	0.010	ug/L	0.001	9	53	610	9
⌊	U	238	0.001	ug/L	0.000	26	17	77	20

ICP-MS Quantitative Analysis - Summary Report

Sample ID: Blank
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, March 30, 2010 10:36:39
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
⌈>	Li	6		ug/L				287408	0
⌊	Be	9		ug/L				5	12
	C	13		mg/L				6024	1
	Cl	37		mg/L				3017573	1
⌈>	Sc	45		ug/L				274724	0
|	V-1	51		ug/L				1520	4
|	V	51		ug/L				8388	0
|	Cr	52		ug/L				5986	1
|	Cr	53		ug/L				2872	0
|	Mn	55		ug/L				440	2
⌊	Co	59		ug/L				54	10
⌈>	Ge	72		ug/L				407406	0
|	Ni	60		ug/L				87	13
|	Ni	62		ug/L				71	10
|	Cu	63		ug/L				210	1
|	Cu	65		ug/L				101	14
|	Zn	66		ug/L				205	9
|	Zn	67		ug/L				217	1
|	Zn	68		ug/L				6749	1
|	As-1	75		ug/L				480	7
|	As	75		ug/L				8965	0
|	Se	82		ug/L				-12	182
|	Se	78		ug/L				9091	0
⌊	Mo	98		ug/L				27	46
	Y	89		ug/L				305272	0
	Kr	83		ug/L				263	4
⌈>	In	115		ug/L				454742	0
|	Ag	107		ug/L				46	21
|	Cd	111		ug/L				208	1
|	Cd	114		ug/L				18	27
|	Sb	121		ug/L				144	9
|	Sb	123		ug/L				121	17
|	Ba	135		ug/L				20	23
⌊	Ba	137		ug/L				29	21
⌈>	Tb	159		ug/L				437751	0
|	Tl	205		ug/L				243	4
|	Pb	208		ug/L				830	6
|	Bi	209		ug/L				369705	1
|	Th	232		ug/L				282	8
⌊	U	238		ug/L				35	21

Quantitative Analysis - Calibration Report

Sample Date/Time: Tuesday, March 30, 2010 10:36:39
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

Analyte	Mass	r Corr Coeff	Slope	Std 1 Conc	Std 2 Conc	Std 3 Conc	Std 4 Conc	Std 5 Conc
Li	6							
Be	9	1.0000	0.0013	10	20	50	100	
C	13							
Cl	37							
Sc	45							
V-1	51	1.0000	0.0461	10	20	50	100	
V	51	1.0000	0.0470	10	20	50	100	
Cr	52	1.0000	0.0415	10	20	50	100	
Cr	53	1.0000	0.0050	10	20	50	100	
Mn	55	1.0000	0.0712	10	20	50	100	
Co	59	1.0000	0.0565	10	20	50	100	
Ge	72							
Ni	60	0.9999	0.0078	10	20	50	100	
Ni	62	1.0000	0.0012	10	20	50	100	
Cu	63	0.9999	0.0183	10	20	50	100	
Cu	65	0.9999	0.0089	10	20	50	100	
Zn	66	0.9999	0.0061	10	20	50	100	
Zn	67	0.9999	0.0010	10	20	50	100	
Zn	68	0.9999	0.0043	10	20	50	100	
As-1	75	1.0000	0.0055	10	20	50	100	
As	75	1.0000	0.0055	10	20	50	100	
Se	82	0.9999	0.0005	10	20	50	100	
Se	78	0.9999	0.0014	10	20	50	100	
Mo	98	1.0000	0.0179	10	20	50	100	
Y	89							
Kr	83							
In	115							
Ag	107	0.9998	0.0318	10	20	50	100	
Cd	111	1.0000	0.0078	10	20	50	100	
Cd	114	0.9999	0.0185	10	20	50	100	
Sb	121	1.0000	0.0290	10	20	50	100	
Sb	123	1.0000	0.0220	10	20	50	100	
Ba	135	1.0000	0.0065	10	20	50	100	
Ba	137	1.0000	0.0109	10	20	50	100	
Tb	159							
Tl	205	0.9996	0.0747	10	20	50	100	
Pb	208	1.0000	0.0994	10	20	50	100	
Bi	209							
Th	232	0.9999	0.1232	10	20	50	100	
U	238	0.9999	0.1340	10	20	50	100	

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ICV
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, March 30, 2010 10:44:28
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
⌈>	Li	6		ug/L			287408	288343	1
⌊	Be	9	50.358	ug/L	0.115	0	5	18779	1
	C	13		mg/L			6024	9049	0
	Cl	37		mg/L			3017573	2999963	0
⌈>	Sc	45		ug/L			274724	272097	1
⌈	V-1	51	50.513	ug/L	1.214	2	1520	634671	0
⌈	V	51	50.633	ug/L	1.040	2	8388	655870	0
⌈	Cr	52	50.355	ug/L	1.202	2	5986	573732	0
⌈	Cr	53	50.727	ug/L	0.777	1	2872	71611	0
⌈	Mn	55	51.016	ug/L	0.556	1	440	988684	0
⌊	Co	59	49.761	ug/L	0.934	1	54	764938	0
⌈>	Ge	72		ug/L			407406	405541	0
⌈	Ni	60	52.698	ug/L	0.574	1	87	166294	0
⌈	Ni	62	52.346	ug/L	0.563	1	71	25424	0
⌈	Cu	63	51.876	ug/L	0.253	0	210	384641	0
⌈	Cu	65	51.566	ug/L	0.133	0	101	186713	0
⌈	Zn	66	53.330	ug/L	0.209	0	205	131400	0
⌈	Zn	67	52.932	ug/L	0.958	1	217	22378	1
⌈	Zn	68	53.027	ug/L	0.339	0	6749	99852	0
⌈	As-1	75	50.225	ug/L	0.160	0	480	112871	0
⌈	As	75	50.412	ug/L	0.124	0	8965	122276	0
⌈	Se	82	80.171	ug/L	0.083	0	-12	17202	0
⌈	Se	78	80.328	ug/L	0.324	0	9091	53725	0
⌊	Mo	98	50.433	ug/L	0.347	0	27	365845	0
	Y	89		ug/L			305272	302445	0
	Kr	83		ug/L			263	261	1
⌈>	In	115		ug/L			454742	455136	0
⌈	Ag	107	48.200	ug/L	0.354	0	46	698428	1
⌈	Cd	111	50.961	ug/L	0.489	0	208	181593	0
⌈	Cd	114	50.907	ug/L	0.596	1	18	429159	0
⌈	Sb	121	49.923	ug/L	0.483	0	144	658734	0
⌈	Sb	123	49.845	ug/L	0.431	0	121	498200	0
⌈	Ba	135	50.590	ug/L	0.218	0	20	148782	0
⌊	Ba	137	50.740	ug/L	0.571	1	29	252851	0
⌈>	Tb	159		ug/L			437751	441557	0
⌈	Tl	205	47.968	ug/L	0.076	0	243	1583197	0
⌈	Pb	208	50.923	ug/L	0.350	0	830	2236012	0
⌈	Bi	209		ug/L			369705	367264	0
⌈	Th	232	51.568	ug/L	0.158	0	282	2805534	0
⌊	U	238	51.621	ug/L	0.204	0	35	3054089	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ICB
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, March 30, 2010 10:51:57
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
>	Li	6		ug/L			287408	290295	0
	Be	9	-0.000	ug/L	0.008	4861	5	5	53
	C	13		mg/L			6024	6048	1
	Cl	37		mg/L			3017573	3005541	0
>	Sc	45		ug/L			274724	274235	0
	V-1	51	0.020	ug/L	0.023	114	1520	1776	16
	V	51	-0.032	ug/L	0.015	47	8388	7964	2
	Cr	52	0.010	ug/L	0.006	64	5986	6085	1
	Cr	53	-0.147	ug/L	0.028	18	2872	2666	1
	Mn	55	-0.001	ug/L	0.002	163	440	419	7
	Co	59	0.000	ug/L	0.001	1556	54	55	37
>	Ge	72		ug/L			407406	405970	0
	Ni	60	-0.000	ug/L	0.005	1642	87	85	17
	Ni	62	-0.005	ug/L	0.016	286	71	68	10
	Cu	63	-0.000	ug/L	0.001	379	210	207	4
	Cu	65	-0.001	ug/L	0.004	605	101	98	14
	Zn	66	0.001	ug/L	0.003	424	205	206	3
	Zn	67	-0.027	ug/L	0.031	115	217	205	6
	Zn	68	-0.023	ug/L	0.046	196	6749	6683	0
	As-1	75	0.007	ug/L	0.004	56	480	495	1
	As	75	-0.006	ug/L	0.023	399	8965	8920	0
	Se	82	-0.008	ug/L	0.058	697	-12	-13	89
	Se	78	-0.063	ug/L	0.102	160	9091	9024	0
	Mo	98	0.002	ug/L	0.001	62	27	41	21
	Y	89		ug/L			305272	306532	0
	Kr	83		ug/L			263	261	4
>	In	115		ug/L			454742	456201	0
	Ag	107	0.001	ug/L	0.000	45	46	62	11
	Cd	111	0.003	ug/L	0.004	120	208	221	5
	Cd	114	0.000	ug/L	0.000	112	18	22	18
	Sb	121	-0.002	ug/L	0.001	31	144	113	8
	Sb	123	-0.003	ug/L	0.002	48	121	89	16
	Ba	135	-0.001	ug/L	0.002	104	20	16	27
	Ba	137	-0.000	ug/L	0.000	2215	29	29	8
>	Tb	159		ug/L			437751	441190	0
	Tl	205	0.000	ug/L	0.001	349	243	254	12
	Pb	208	0.001	ug/L	0.001	128	830	858	2
	Bi	209		ug/L			369705	369254	1
	Th	232	0.003	ug/L	0.001	27	282	467	11
	U	238	0.000	ug/L	0.000	59	35	60	23

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, March 30, 2010 10:59:29
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			287408	278994	0
[	Be	9	50.812	ug/L	0.630	1	5	18334	1
	C	13		mg/L			6024	6199	0
	Cl	37		mg/L			3017573	2950119	0
[>	Sc	45		ug/L			274724	263841	1
[	V-1	51	50.206	ug/L	0.304	0	1520	611823	0
[	V	51	50.026	ug/L	0.326	0	8388	628561	0
[	Cr	52	49.585	ug/L	0.547	1	5986	548018	0
[	Cr	53	49.080	ug/L	0.597	1	2872	67278	0
[	Mn	55	49.215	ug/L	0.572	1	440	924880	0
[	Co	59	49.075	ug/L	0.740	1	54	731619	1
[>	Ge	72		ug/L			407406	389783	0
[	Ni	60	51.071	ug/L	0.730	1	87	154896	0
[	Ni	62	50.375	ug/L	0.847	1	71	23518	1
[	Cu	63	51.339	ug/L	0.565	1	210	365861	0
[	Cu	65	51.188	ug/L	0.405	0	101	178142	0
[	Zn	66	51.216	ug/L	0.792	1	205	121293	1
[	Zn	67	51.697	ug/L	1.267	2	217	21010	2
[	Zn	68	51.334	ug/L	0.123	0	6749	93112	0
[	As-1	75	50.813	ug/L	0.528	1	480	109746	0
[	As	75	50.829	ug/L	0.453	0	8965	118424	0
[	Se	82	51.735	ug/L	0.166	0	-12	10665	0
[	Se	78	51.810	ug/L	0.508	0	9091	36393	0
[	Mo	98	50.793	ug/L	0.511	1	27	354136	1
	Y	89		ug/L			305272	292160	0
	Kr	83		ug/L			263	260	3
[>	In	115		ug/L			454742	438567	0
[	Ag	107	51.652	ug/L	0.147	0	46	721182	0
[	Cd	111	50.805	ug/L	0.960	1	208	174439	1
[	Cd	114	51.385	ug/L	0.327	0	18	417422	0
[	Sb	121	50.212	ug/L	0.118	0	144	638443	0
[	Sb	123	50.159	ug/L	0.410	0	121	483080	0
[	Ba	135	49.698	ug/L	0.391	0	20	140839	0
[	Ba	137	49.512	ug/L	0.518	1	29	237748	0
[>	Tb	159		ug/L			437751	425740	0
[	Tl	205	47.816	ug/L	0.487	1	243	1521581	0
[	Pb	208	49.333	ug/L	0.111	0	830	2088645	0
[	Bi	209		ug/L			369705	353583	1
[	Th	232	50.943	ug/L	0.796	1	282	2672003	0
[	U	238	50.923	ug/L	0.420	0	35	2904723	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, March 30, 2010 11:06:57
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
⌈>	Li	6		ug/L			287408	289770	1
⌊	Be	9	0.004	ug/L	0.005	128	5	7	28
	C	13		mg/L			6024	5956	1
	Cl	37		mg/L			3017573	2975217	0
⌈>	Sc	45		ug/L			274724	272622	1
|	V-1	51	0.027	ug/L	0.016	59	1520	1851	10
|	V	51	-0.065	ug/L	0.005	8	8388	7488	0
|	Cr	52	0.005	ug/L	0.007	158	5986	5992	2
|	Cr	53	-0.273	ug/L	0.059	21	2872	2479	3
|	Mn	55	-0.002	ug/L	0.001	57	440	397	6
⌊	Co	59	-0.001	ug/L	0.001	90	54	42	25
⌈>	Ge	72		ug/L			407406	401427	0
|	Ni	60	-0.005	ug/L	0.003	54	87	69	13
|	Ni	62	0.008	ug/L	0.026	303	71	74	15
|	Cu	63	0.002	ug/L	0.003	153	210	222	9
|	Cu	65	-0.004	ug/L	0.002	39	101	84	8
|	Zn	66	0.006	ug/L	0.005	84	205	217	5
|	Zn	67	-0.021	ug/L	0.007	34	217	205	2
|	Zn	68	-0.002	ug/L	0.045	1972	6749	6645	0
|	As-1	75	0.005	ug/L	0.003	65	480	483	0
|	As	75	-0.009	ug/L	0.057	627	8965	8812	0
|	Se	82	0.036	ug/L	0.035	96	-12	-4	169
|	Se	78	-0.066	ug/L	0.243	369	9091	8921	0
⌊	Mo	98	0.003	ug/L	0.001	44	27	51	20
	Y	89		ug/L			305272	299668	0
	Kr	83		ug/L			263	249	0
⌈>	In	115		ug/L			454742	446112	0
|	Ag	107	0.003	ug/L	0.001	43	46	82	19
|	Cd	111	0.004	ug/L	0.001	40	208	217	2
|	Cd	114	0.001	ug/L	0.000	43	18	23	8
|	Sb	121	0.010	ug/L	0.003	33	144	267	16
|	Sb	123	0.009	ug/L	0.005	59	121	204	25
|	Ba	135	-0.000	ug/L	0.001	5916	20	20	10
⌊	Ba	137	0.000	ug/L	0.004	1010	29	30	59
⌈>	Tb	159		ug/L			437751	431962	0
|	Tl	205	-0.000	ug/L	0.000	551	243	238	4
|	Pb	208	0.000	ug/L	0.001	245	830	839	5
|	Bi	209		ug/L			369705	363600	0
|	Th	232	0.005	ug/L	0.002	44	282	571	23
⌊	U	238	0.001	ug/L	0.000	27	35	66	13

ICP-MS Quantitative Analysis - Summary Report

Sample ID: LOW CHECK
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, March 30, 2010 11:14:23
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
⌈>	Li	6		ug/L			287408	301341	0
⌊	Be	9	0.195	ug/L	0.022	11	5	82	10
	C	13		mg/L			6024	5695	2
	Cl	37		mg/L			3017573	3001287	0
⌈>	Sc	45		ug/L			274724	276861	0
⌈	V-1	51	0.208	ug/L	0.019	9	1520	4186	5
⌊	V	51	0.111	ug/L	0.025	22	8388	9893	2
⌈	Cr	52	0.475	ug/L	0.011	2	5986	11487	1
⌊	Cr	53	0.165	ug/L	0.074	44	2872	3122	2
⌈	Mn	55	0.491	ug/L	0.000	0	440	10114	0
⌊	Co	59	0.199	ug/L	0.001	0	54	3168	0
⌈>	Ge	72		ug/L			407406	408451	0
⌈	Ni	60	0.514	ug/L	0.022	4	87	1720	3
⌊	Ni	62	0.498	ug/L	0.019	3	71	314	3
⌈	Cu	63	0.522	ug/L	0.006	1	210	4110	1
⌊	Cu	65	0.516	ug/L	0.009	1	101	1982	1
⌈	Zn	66	4.177	ug/L	0.039	0	205	10554	0
⌊	Zn	67	3.574	ug/L	0.158	4	217	1724	2
⌈	Zn	68	3.890	ug/L	0.052	1	6749	13646	0
⌈	As-1	75	0.201	ug/L	0.005	2	480	935	2
⌊	As	75	0.075	ug/L	0.066	87	8965	9158	0
⌈	Se	82	0.521	ug/L	0.030	5	-12	100	6
⌊	Se	78	-0.023	ug/L	0.284	1230	9091	9100	0
⌊	Mo	98	0.193	ug/L	0.004	2	27	1440	1
	Y	89		ug/L			305272	306488	0
	Kr	83		ug/L			263	257	2
⌈>	In	115		ug/L			454742	457100	0
⌈	Ag	107	0.190	ug/L	0.003	1	46	2817	1
⌈	Cd	111	0.197	ug/L	0.006	3	208	912	2
⌊	Cd	114	0.208	ug/L	0.010	4	18	1778	4
⌈	Sb	121	0.196	ug/L	0.003	1	144	2742	1
⌊	Sb	123	0.188	ug/L	0.003	1	121	2011	0
⌈	Ba	135	0.509	ug/L	0.016	3	20	1524	3
⌊	Ba	137	0.493	ug/L	0.018	3	29	2495	3
⌈>	Tb	159		ug/L			437751	439250	0
⌈	Tl	205	0.201	ug/L	0.003	1	243	6834	1
⌊	Pb	208	0.975	ug/L	0.010	1	830	43408	1
⌈	Bi	209		ug/L			369705	369090	0
⌊	Th	232	0.184	ug/L	0.003	1	282	10246	1
⌊	U	238	0.189	ug/L	0.001	0	35	11175	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ICSA
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, March 30, 2010 11:21:48
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			287408	409545	2
[	Be	9	-0.007	ug/L	0.001	21	5	4	15
	C	13		mg/L			6024	24405	1
	Cl	37		mg/L			3017573	4610282	1
[>	Sc	45		ug/L			274724	246603	2
[	V-1	51	-0.001	ug/L	0.033	3345	1520	1357	29
[	V	51	0.690	ug/L	0.008	1	8388	15527	2
[	Cr	52	0.473	ug/L	0.018	3	5986	10212	2
[	Cr	53	2.529	ug/L	0.111	4	2872	5685	0
[	Mn	55	0.171	ug/L	0.004	2	440	3402	2
[	Co	59	0.028	ug/L	0.004	12	54	446	12
[>	Ge	72		ug/L			407406	335588	2
[	Ni	60	0.460	ug/L	0.005	1	87	1271	2
[	Ni	62	4.039	ug/L	0.067	1	71	1677	3
[	Cu	63	0.399	ug/L	0.007	1	210	2621	2
[	Cu	65	0.605	ug/L	0.023	3	101	1893	3
[	Zn	66	1.217	ug/L	0.024	1	205	2646	1
[	Zn	67	1.193	ug/L	0.027	2	217	592	1
[	Zn	68	0.259	ug/L	0.028	10	6749	5935	2
[	As-1	75	0.063	ug/L	0.025	39	480	512	6
[	As	75	0.100	ug/L	0.059	59	8965	7569	0
[	Se	82	-0.071	ug/L	0.064	90	-12	-22	49
[	Se	78	0.331	ug/L	0.154	46	9091	7640	1
[	Mo	98	453.911	ug/L	4.502	0	27	2724253	1
	Y	89		ug/L			305272	271939	0
	Kr	83		ug/L			263	262	3
[>	In	115		ug/L			454742	377464	1
[	Ag	107	0.030	ug/L	0.003	9	46	405	9
[	Cd	111	0.059	ug/L	0.019	31	208	346	16
[	Cd	114	0.617	ug/L	0.024	3	18	4329	4
[	Sb	121	0.038	ug/L	0.002	3	144	538	1
[	Sb	123	0.038	ug/L	0.004	10	121	416	7
[	Ba	135	0.033	ug/L	0.002	4	20	96	3
[	Ba	137	0.032	ug/L	0.002	7	29	156	5
[>	Tb	159		ug/L			437751	391859	1
[	Tl	205	0.000	ug/L	0.001	270	243	224	7
[	Pb	208	0.083	ug/L	0.002	2	830	3969	1
[	Bi	209		ug/L			369705	319594	1
[	Th	232	0.009	ug/L	0.001	10	282	705	7
[	U	238	0.000	ug/L	0.000	391	35	33	19

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ICSAB
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, March 30, 2010 11:29:14
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			287408	425992	0
[	Be	9	-0.001	ug/L	0.001	96	5	7	9
	C	13		mg/L			6024	21404	0
	Cl	37		mg/L			3017573	4288133	0
[>	Sc	45		ug/L			274724	231167	0
[	V-1	51	-0.388	ug/L	0.116	29	1520	-2862	43
[	V	51	0.663	ug/L	0.022	3	8388	14264	1
[	Cr	52	20.190	ug/L	0.255	1	5986	198500	0
[	Cr	53	22.129	ug/L	0.255	1	2872	27907	1
[	Mn	55	19.210	ug/L	0.444	2	440	316552	2
[	Co	59	18.439	ug/L	0.243	1	54	240881	1
[>	Ge	72		ug/L			407406	314073	1
[	Ni	60	20.846	ug/L	0.318	1	87	50978	0
[	Ni	62	24.097	ug/L	0.259	1	71	9093	1
[	Cu	63	20.569	ug/L	0.261	1	210	118208	1
[	Cu	65	20.394	ug/L	0.195	0	101	57229	0
[	Zn	66	20.984	ug/L	0.261	1	205	40132	0
[	Zn	67	18.301	ug/L	0.663	3	217	6100	3
[	Zn	68	19.071	ug/L	0.437	2	6749	31139	1
[	As-1	75	20.262	ug/L	0.248	1	480	35481	0
[	As	75	20.235	ug/L	0.289	1	8965	42142	0
[	Se	82	-0.005	ug/L	0.095	1783	-12	-10	154
[	Se	78	0.487	ug/L	0.262	53	9091	7217	0
[	Mo	98	459.070	ug/L	3.826	0	27	2578700	1
	Y	89		ug/L			305272	260258	0
	Kr	83		ug/L			263	239	1
[>	In	115		ug/L			454742	353948	2
[	Ag	107	18.716	ug/L	0.036	0	46	210920	2
[	Cd	111	20.645	ug/L	0.319	1	208	57295	0
[	Cd	114	21.149	ug/L	0.325	1	18	138645	1
[	Sb	121	0.039	ug/L	0.003	7	144	511	8
[	Sb	123	0.040	ug/L	0.004	9	121	405	7
[	Ba	135	0.034	ug/L	0.006	18	20	93	17
[	Ba	137	0.036	ug/L	0.005	12	29	162	8
[>	Tb	159		ug/L			437751	382912	0
[	Tl	205	0.005	ug/L	0.000	8	243	366	2
[	Pb	208	0.078	ug/L	0.003	3	830	3710	3
[	Bi	209		ug/L			369705	311542	0
[	Th	232	0.004	ug/L	0.001	18	282	447	8
[	U	238	0.000	ug/L	0.000	317	35	33	22

ICP-MS Quantitative Analysis - Summary Report

Sample ID: LC
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, March 30, 2010 11:36:59
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			287408	436410	0
[	Be	9	0.088	ug/L	0.007	8	5	58	6
	C	13		mg/L			6024	6452	1
	Cl	37		mg/L			3017573	2580477	0
[>	Sc	45		ug/L			274724	242286	1
[	V-1	51	0.092	ug/L	0.006	6	1520	2370	3
[	V	51	0.090	ug/L	0.032	35	8388	8418	3
[	Cr	52	0.209	ug/L	0.015	7	5986	7379	2
[	Cr	53	0.195	ug/L	0.106	54	2872	2768	3
[	Mn	55	0.258	ug/L	0.001	0	440	4834	0
[	Co	59	0.096	ug/L	0.004	4	54	1366	3
[>	Ge	72		ug/L			407406	331298	0
[	Ni	60	0.261	ug/L	0.006	2	87	744	2
[	Ni	62	0.224	ug/L	0.024	10	71	146	7
[	Cu	63	0.273	ug/L	0.007	2	210	1826	2
[	Cu	65	0.268	ug/L	0.012	4	101	876	4
[	Zn	66	2.473	ug/L	0.019	0	205	5136	1
[	Zn	67	2.178	ug/L	0.102	4	217	921	3
[	Zn	68	2.107	ug/L	0.043	2	6749	8511	0
[	As-1	75	0.144	ug/L	0.018	12	480	653	4
[	As	75	0.107	ug/L	0.005	4	8965	7487	0
[	Se	82	0.316	ug/L	0.046	14	-12	45	17
[	Se	78	0.240	ug/L	0.019	8	9091	7502	0
[	Mo	98	0.135	ug/L	0.007	5	27	825	5
	Y	89		ug/L			305272	273698	0
	Kr	83		ug/L			263	227	0
[>	In	115		ug/L			454742	376497	0
[	Ag	107	0.103	ug/L	0.002	2	46	1273	1
[	Cd	111	0.097	ug/L	0.010	10	208	459	5
[	Cd	114	0.104	ug/L	0.009	8	18	742	8
[	Sb	121	0.092	ug/L	0.004	4	144	1126	2
[	Sb	123	0.092	ug/L	0.005	5	121	857	4
[	Ba	135	0.255	ug/L	0.014	5	20	636	6
[	Ba	137	0.252	ug/L	0.005	1	29	1061	0
[>	Tb	159		ug/L			437751	398939	0
[	Tl	205	0.107	ug/L	0.002	2	243	3426	1
[	Pb	208	0.548	ug/L	0.001	0	830	22486	0
[	Bi	209		ug/L			369705	332713	0
[	Th	232	0.094	ug/L	0.002	2	282	4862	2
[	U	238	0.099	ug/L	0.001	1	35	5302	2

ICP-MS Quantitative Analysis - Summary Report

Sample ID: LR200
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, March 30, 2010 11:44:43
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
⌈>	Li	6		ug/L			287408	414189	3
⌊	Be	9	184.462	ug/L	2.563	1	5	98765	1
	C	13		mg/L			6024	6193	3
	Cl	37		mg/L			3017573	2665047	1
⌈>	Sc	45		ug/L			274724	243413	0
⌈	V-1	51	206.842	ug/L	1.251	0	1520	2321350	0
⌊	V	51	205.975	ug/L	1.305	0	8388	2364527	0
⌈	Cr	52	192.570	ug/L	1.669	0	5986	1948390	1
⌊	Cr	53	190.810	ug/L	3.400	1	2872	233975	1
⌈	Mn	55	199.005	ug/L	2.205	1	440	3449409	1
⌊	Co	59	190.788	ug/L	1.968	1	54	2624074	1
⌈>	Ge	72		ug/L			407406	333264	1
⌈	Ni	60	200.074	ug/L	0.724	0	87	518653	1
⌊	Ni	62	197.087	ug/L	1.916	0	71	78508	2
⌈	Cu	63	196.271	ug/L	1.199	0	210	1195509	1
⌊	Cu	65	193.238	ug/L	1.072	0	101	574738	0
⌈	Zn	66	195.866	ug/L	2.077	1	205	396102	0
⌈	Zn	67	192.637	ug/L	0.704	0	217	66455	1
⌊	Zn	68	192.018	ug/L	1.312	0	6749	282662	1
⌈	As-1	75	199.903	ug/L	0.825	0	480	367990	0
⌊	As	75	198.544	ug/L	0.791	0	8965	374186	1
⌈	Se	82	206.881	ug/L	2.663	1	-12	36491	0
⌊	Se	78	201.468	ug/L	2.576	1	9091	99506	0
⌊	Mo	98	213.937	ug/L	3.748	1	27	1275054	0
	Y	89		ug/L			305272	268638	1
	Kr	83		ug/L			263	258	4
⌈>	In	115		ug/L			454742	374685	2
⌈	Ag	107	215.205	ug/L	4.157	1	46	2566311	0
⌈	Cd	111	202.129	ug/L	5.951	2	208	592216	1
⌊	Cd	114	202.358	ug/L	2.504	1	18	1404169	1
⌈	Sb	121	212.976	ug/L	2.736	1	144	2312741	0
⌊	Sb	123	200.788	ug/L	3.434	1	121	1651478	0
⌈	Ba	135	195.164	ug/L	2.931	1	20	472378	0
⌊	Ba	137	197.240	ug/L	4.234	2	29	808879	0
⌈>	Tb	159		ug/L			437751	396232	0
⌈	Tl	205	201.221	ug/L	2.860	1	243	5958416	0
⌊	Pb	208	199.090	ug/L	1.988	0	830	7842154	0
⌈	Bi	209		ug/L			369705	321329	1
⌊	Th	232	205.764	ug/L	5.863	2	282	10042700	1
⌊	U	238	207.152	ug/L	2.126	1	35	10997084	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: LR300
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, March 30, 2010 11:52:26
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
⌈>	Li	6		ug/L			287408	361219	2
⌊	Be	9	284.554	ug/L	3.379	1	5	132887	2
	C	13		mg/L			6024	6961	1
	Cl	37		mg/L			3017573	2751706	0
⌈>	Sc	45		ug/L			274724	242103	1
|	V-1	51	316.979	ug/L	1.717	0	1520	3537434	1
|	V	51	310.899	ug/L	1.118	0	8388	3546122	1
|	Cr	52	307.647	ug/L	5.766	1	5986	3092158	0
|	Cr	53	289.859	ug/L	1.212	0	2872	352192	1
|	Mn	55	303.942	ug/L	0.846	0	440	5239841	1
⌊	Co	59	290.003	ug/L	1.406	0	54	3967109	1
⌈>	Ge	72		ug/L			407406	334864	1
|	Ni	60	298.556	ug/L	3.997	1	87	777514	0
|	Ni	62	298.028	ug/L	1.520	0	71	119248	1
|	Cu	63	297.895	ug/L	2.024	0	210	1823153	2
|	Cu	65	291.465	ug/L	0.648	0	101	871031	1
|	Zn	66	291.680	ug/L	2.238	0	205	592638	1
|	Zn	67	287.079	ug/L	3.897	1	217	99412	0
|	Zn	68	292.247	ug/L	1.562	0	6749	429357	1
|	As-1	75	299.679	ug/L	2.740	0	480	554080	0
|	As	75	298.254	ug/L	2.921	0	8965	561067	0
|	Se	82	304.782	ug/L	3.731	1	-12	54022	0
|	Se	78	299.257	ug/L	4.014	1	9091	144883	0
⌊	Mo	98	318.434	ug/L	4.269	1	27	1907018	0
	Y	89		ug/L			305272	265581	0
	Kr	83		ug/L			263	284	0
⌈>	In	115		ug/L			454742	375989	0
|	Ag	107	321.438	ug/L	3.539	1	46	3847420	0
|	Cd	111	301.929	ug/L	1.482	0	208	887956	0
|	Cd	114	323.088	ug/L	3.471	1	18	2250096	1
|	Sb	121	321.567	ug/L	2.011	0	144	3504626	0
|	Sb	123	323.806	ug/L	3.341	1	121	2673085	0
|	Ba	135	295.673	ug/L	4.343	1	20	718252	1
⌊	Ba	137	296.795	ug/L	4.411	1	29	1221696	1
⌈>	Tb	159		ug/L			437751	386443	1
|	Tl	205	305.214	ug/L	1.677	0	243	8814811	0
|	Pb	208	311.765	ug/L	3.487	1	830	11976353	0
|	Bi	209		ug/L			369705	312494	0
|	Th	232	314.820	ug/L	3.067	0	282	14987507	0
⌊	U	238	318.218	ug/L	5.605	1	35	16475131	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV2
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, March 30, 2010 12:00:12
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
⌈>	Li	6		ug/L			287408	402985	1
⌊	Be	9	47.338	ug/L	0.483	1	5	24671	0
	C	13		mg/L			6024	7022	1
	Cl	37		mg/L			3017573	2825825	0
⌈>	Sc	45		ug/L			274724	253494	0
|	V-1	51	49.538	ug/L	1.010	2	1520	580018	1
|	V	51	49.216	ug/L	0.955	1	8388	594245	1
|	Cr	52	49.008	ug/L	0.831	1	5986	520475	1
|	Cr	53	48.066	ug/L	0.766	1	2872	63363	1
|	Mn	55	48.567	ug/L	0.532	1	440	876981	1
⌊	Co	59	46.656	ug/L	0.808	1	54	668256	1
⌈>	Ge	72		ug/L			407406	347927	1
|	Ni	60	51.260	ug/L	0.207	0	87	138781	0
|	Ni	62	51.172	ug/L	0.221	0	71	21325	1
|	Cu	63	51.467	ug/L	0.642	1	210	327378	0
|	Cu	65	50.515	ug/L	0.135	0	101	156924	0
|	Zn	66	51.183	ug/L	0.478	0	205	108202	1
|	Zn	67	49.885	ug/L	0.276	0	217	18103	0
|	Zn	68	50.777	ug/L	0.366	0	6749	82273	0
|	As-1	75	50.594	ug/L	0.028	0	480	97544	1
|	As	75	50.229	ug/L	0.108	0	8965	104551	0
|	Se	82	53.341	ug/L	0.339	0	-12	9816	1
|	Se	78	51.943	ug/L	0.117	0	9091	32548	0
⌊	Mo	98	52.741	ug/L	0.266	0	27	328226	0
	Y	89		ug/L			305272	276609	2
	Kr	83		ug/L			263	250	0
⌈>	In	115		ug/L			454742	391377	0
|	Ag	107	52.130	ug/L	0.481	0	46	649538	1
|	Cd	111	51.596	ug/L	0.835	1	208	158095	1
|	Cd	114	51.485	ug/L	0.669	1	18	373227	0
|	Sb	121	50.127	ug/L	0.462	0	144	568773	0
|	Sb	123	49.866	ug/L	0.479	0	121	428586	0
|	Ba	135	49.377	ug/L	0.733	1	20	124871	1
⌊	Ba	137	49.117	ug/L	0.824	1	29	210476	1
⌈>	Tb	159		ug/L			437751	403643	2
|	Tl	205	48.095	ug/L	0.615	1	243	1450837	1
|	Pb	208	49.648	ug/L	0.398	0	830	1992672	1
|	Bi	209		ug/L			369705	335225	1
|	Th	232	52.241	ug/L	0.634	1	282	2597649	1
⌊	U	238	52.478	ug/L	1.274	2	35	2837214	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB2
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, March 30, 2010 12:07:40
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
⌈>	Li	6		ug/L			287408	407271	0
⌊	Be	9	-0.003	ug/L	0.006	198	5	6	47
	C	13		mg/L			6024	6412	2
	Cl	37		mg/L			3017573	2757551	0
⌈>	Sc	45		ug/L			274724	249984	0
|	V-1	51	0.016	ug/L	0.016	99	1520	1569	12
|	V	51	-0.091	ug/L	0.012	13	8388	6567	1
|	Cr	52	-0.032	ug/L	0.011	34	5986	5115	2
|	Cr	53	-0.351	ug/L	0.085	24	2872	2176	4
|	Mn	55	0.006	ug/L	0.001	24	440	509	4
⌊	Co	59	-0.000	ug/L	0.000	253	54	47	10
⌈>	Ge	72		ug/L			407406	337070	0
|	Ni	60	-0.003	ug/L	0.003	118	87	65	12
|	Ni	62	-0.015	ug/L	0.016	103	71	52	12
|	Cu	63	0.004	ug/L	0.002	59	210	197	7
|	Cu	65	0.003	ug/L	0.006	174	101	94	18
|	Zn	66	0.018	ug/L	0.004	20	205	205	3
|	Zn	67	0.014	ug/L	0.040	281	217	184	7
|	Zn	68	-0.203	ug/L	0.051	25	6749	5287	1
|	As-1	75	0.037	ug/L	0.027	73	480	466	11
|	As	75	0.142	ug/L	0.029	20	8965	7683	1
|	Se	82	-0.001	ug/L	0.026	3853	-12	-10	46
|	Se	78	0.538	ug/L	0.113	21	9091	7770	0
⌊	Mo	98	0.009	ug/L	0.001	5	27	78	4
	Y	89		ug/L			305272	275717	0
	Kr	83		ug/L			263	239	3
⌈>	In	115		ug/L			454742	380915	0
|	Ag	107	0.005	ug/L	0.001	27	46	95	17
|	Cd	111	-0.004	ug/L	0.007	169	208	162	12
|	Cd	114	0.001	ug/L	0.001	49	18	25	18
|	Sb	121	0.039	ug/L	0.003	8	144	547	6
|	Sb	123	0.038	ug/L	0.005	13	121	421	10
|	Ba	135	-0.000	ug/L	0.002	823	20	16	22
⌊	Ba	137	-0.000	ug/L	0.002	1088	29	23	34
⌈>	Tb	159		ug/L			437751	394505	0
|	Tl	205	0.001	ug/L	0.000	32	243	234	1
|	Pb	208	0.000	ug/L	0.001	2080	830	749	4
|	Bi	209		ug/L			369705	329476	0
|	Th	232	0.012	ug/L	0.000	3	282	848	1
⌊	U	238	0.001	ug/L	0.000	9	35	102	6

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ39 B-L REN
Sample Dil Factor: 25
Comments:
Sample Date/Time: Tuesday, March 30, 2010 12:16:02
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
⌈>	**Li**	**6**		ug/L			287408	431658	0
⌊	**Be**	**9**	**-0.003**	ug/L	0.002	82	5	7	20
	C	**13**		mg/L			6024	6623	1
	Cl	**37**		mg/L			3017573	2661309	0
⌈>	**Sc**	**45**		ug/L			274724	254813	1
⌈	**V-1**	**51**	**1.123**	ug/L	0.016	1	1520	14592	1
⌈	**V**	**51**	**0.967**	ug/L	0.003	0	8388	19362	0
⌈	**Cr**	**52**	**0.252**	ug/L	0.009	3	5986	8218	0
⌈	**Cr**	**53**	**-0.166**	ug/L	0.046	27	2872	2454	2
⌈	**Mn**	**55**	**41.956**	ug/L	0.367	0	440	761671	2
⌊	**Co**	**59**	**0.076**	ug/L	0.000	0	54	1140	1
⌈>	**Ge**	**72**		ug/L			407406	336376	1
⌈	**Ni**	**60**	**0.117**	ug/L	0.010	8	87	378	5
⌈	**Ni**	**62**	**0.095**	ug/L	0.024	25	71	97	11
⌈	**Cu**	**63**	**0.164**	ug/L	0.008	4	210	1178	3
⌈	**Cu**	**65**	**0.110**	ug/L	0.006	5	101	412	2
⌈	**Zn**	**66**	**0.412**	ug/L	0.008	2	205	1010	3
⌈	**Zn**	**67**	**0.440**	ug/L	0.042	9	217	332	5
⌈	**Zn**	**68**	**0.032**	ug/L	0.030	92	6749	5618	1
⌈	**As-1**	**75**	**0.199**	ug/L	0.029	14	480	766	5
⌈	**As**	**75**	**0.149**	ug/L	0.092	61	8965	7678	0
⌈	**Se**	**82**	**0.051**	ug/L	0.075	146	-12	0	1532
⌈	**Se**	**78**	**-0.073**	ug/L	0.312	428	9091	7471	0
⌊	**Mo**	**98**	**0.199**	ug/L	0.005	2	27	1220	4
	Y	**89**		ug/L			305272	279495	1
	Kr	**83**		ug/L			263	230	5
⌈>	**In**	**115**		ug/L			454742	379570	1
⌈	**Ag**	**107**	**0.005**	ug/L	0.002	30	46	100	18
⌈	**Cd**	**111**	**-0.015**	ug/L	0.007	42	208	128	13
⌈	**Cd**	**114**	**0.002**	ug/L	0.001	22	18	31	11
⌈	**Sb**	**121**	**0.017**	ug/L	0.002	11	144	309	7
⌈	**Sb**	**123**	**0.013**	ug/L	0.003	24	121	211	13
⌈	**Ba**	**135**	**1.231**	ug/L	0.003	0	20	3037	1
⌊	**Ba**	**137**	**1.239**	ug/L	0.022	1	29	5172	2
⌈>	**Tb**	**159**		ug/L			437751	402944	0
⌈	**Tl**	**205**	**0.003**	ug/L	0.001	30	243	301	8
⌈	**Pb**	**208**	**0.013**	ug/L	0.001	7	830	1271	2
⌈	**Bi**	**209**		ug/L			369705	334429	1
⌈	**Th**	**232**	**0.007**	ug/L	0.001	7	282	628	4
⌊	**U**	**238**	**0.004**	ug/L	0.000	6	35	244	5

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ39 B REN
Sample Dil Factor: 5
Comments:
Sample Date/Time: Tuesday, March 30, 2010 12:22:49
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			287408	433492	0
[	Be	9	0.012	ug/L	0.005	38	5	15	16
	C	13		mg/L			6024	7354	2
	Cl	37		mg/L			3017573	2611460	0
[>	Sc	45		ug/L			274724	268914	0
|	V-1	51	5.132	ug/L	0.070	1	1520	65083	1
|	V	51	4.892	ug/L	0.070	1	8388	70055	1
|	Cr	52	1.264	ug/L	0.020	1	5986	19950	0
|	Cr	53	0.771	ug/L	0.050	6	2872	3844	1
|	Mn	55	205.140	ug/L	0.862	0	440	3928197	0
[	Co	59	0.351	ug/L	0.013	3	54	5381	3
[>	Ge	72		ug/L			407406	324477	0
|	Ni	60	0.584	ug/L	0.012	2	87	1542	2
|	Ni	62	0.673	ug/L	0.062	9	71	317	8
|	Cu	63	0.565	ug/L	0.013	2	210	3520	2
|	Cu	65	0.297	ug/L	0.014	4	101	940	5
|	Zn	66	1.438	ug/L	0.032	2	205	2994	2
|	Zn	67	1.668	ug/L	0.098	5	217	731	4
|	Zn	68	1.304	ug/L	0.104	7	6749	7207	1
|	As-1	75	0.872	ug/L	0.024	2	480	1943	2
|	As	75	0.832	ug/L	0.048	5	8965	8637	0
|	Se	82	0.208	ug/L	0.091	43	-12	26	59
|	Se	78	0.150	ug/L	0.132	88	9091	7307	0
[	Mo	98	0.989	ug/L	0.007	0	27	5762	0
	Y	89		ug/L			305272	286721	0
	Kr	83		ug/L			263	225	4
[>	In	115		ug/L			454742	364106	0
|	Ag	107	0.010	ug/L	0.001	9	46	148	6
|	Cd	111	-0.042	ug/L	0.029	69	208	48	171
|	Cd	114	0.005	ug/L	0.001	19	18	47	13
|	Sb	121	0.024	ug/L	0.003	13	144	363	8
|	Sb	123	0.022	ug/L	0.002	8	121	271	5
|	Ba	135	6.161	ug/L	0.067	1	20	14510	1
[	Ba	137	6.159	ug/L	0.139	2	29	24574	1
[>	Tb	159		ug/L			437751	393943	1
|	Tl	205	0.004	ug/L	0.000	5	243	332	2
|	Pb	208	0.059	ug/L	0.002	3	830	3075	2
|	Bi	209		ug/L			369705	319286	0
|	Th	232	0.029	ug/L	0.001	3	282	1684	1
[	U	238	0.013	ug/L	0.001	5	35	716	5

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ39 BDUP REN
Sample Dil Factor: 5
Comments:
Sample Date/Time: Tuesday, March 30, 2010 12:29:37
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

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	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
⌈>	**Li**	**6**		ug/L			287408	452546	0
⌊	**Be**	**9**	**0.016**	ug/L	0.005	30	5	18	14
	C	**13**		mg/L			6024	7602	1
	Cl	**37**		mg/L			3017573	2549614	0
⌈>	**Sc**	**45**		ug/L			274724	261955	1
|	**V-1**	**51**	**4.838**	ug/L	0.064	1	1520	59849	1
|	**V**	**51**	**4.618**	ug/L	0.091	1	8388	64860	1
|	**Cr**	**52**	**1.212**	ug/L	0.052	4	5986	18868	3
|	**Cr**	**53**	**0.764**	ug/L	0.136	17	2872	3734	4
|	**Mn**	**55**	**197.628**	ug/L	1.047	0	440	3686403	1
⌊	**Co**	**59**	**0.329**	ug/L	0.011	3	54	4921	4
⌈>	**Ge**	**72**		ug/L			407406	324001	0
|	**Ni**	**60**	**0.582**	ug/L	0.022	3	87	1535	3
|	**Ni**	**62**	**0.727**	ug/L	0.064	8	71	337	7
|	**Cu**	**63**	**0.548**	ug/L	0.009	1	210	3411	1
|	**Cu**	**65**	**0.282**	ug/L	0.007	2	101	897	2
|	**Zn**	**66**	**1.507**	ug/L	0.017	1	205	3125	1
|	**Zn**	**67**	**1.710**	ug/L	0.071	4	217	744	2
|	**Zn**	**68**	**1.227**	ug/L	0.117	9	6749	7089	2
|	**As-1**	**75**	**0.839**	ug/L	0.032	3	480	1882	3
|	**As**	**75**	**0.687**	ug/L	0.050	7	8965	8364	1
|	**Se**	**82**	**0.168**	ug/L	0.094	56	-12	19	84
|	**Se**	**78**	**-0.311**	ug/L	0.116	37	9091	7092	1
⌊	**Mo**	**98**	**0.930**	ug/L	0.019	2	27	5413	1
	Y	**89**		ug/L			305272	286880	0
	Kr	**83**		ug/L			263	230	5
⌈>	**In**	**115**		ug/L			454742	363444	0
|	**Ag**	**107**	**0.008**	ug/L	0.001	7	46	128	4
|	**Cd**	**111**	**-0.016**	ug/L	0.001	8	208	121	3
|	**Cd**	**114**	**0.016**	ug/L	0.002	12	18	121	11
|	**Sb**	**121**	**0.020**	ug/L	0.001	7	144	321	4
|	**Sb**	**123**	**0.017**	ug/L	0.000	2	121	233	1
|	**Ba**	**135**	**5.758**	ug/L	0.047	0	20	13537	1
⌊	**Ba**	**137**	**5.824**	ug/L	0.095	1	29	23198	1
⌈>	**Tb**	**159**		ug/L			437751	391864	0
|	**Tl**	**205**	**0.003**	ug/L	0.001	18	243	310	5
|	**Pb**	**208**	**0.044**	ug/L	0.002	3	830	2475	1
|	**Bi**	**209**		ug/L			369705	321376	0
|	**Th**	**232**	**0.022**	ug/L	0.001	2	282	1321	1
⌊	**U**	**238**	**0.014**	ug/L	0.002	12	35	765	12

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ39 BSPK REN
Sample Dil Factor: 5
Comments:
Sample Date/Time: Tuesday, March 30, 2010 12:36:25
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			287408	472628	0
[	Be	9	9.932	ug/L	0.255	2	5	6077	1
	C	13		mg/L			6024	7436	1
	Cl	37		mg/L			3017573	2525700	1
[>	Sc	45		ug/L			274724	264287	1
[	V-1	51	15.175	ug/L	0.235	1	1520	186251	1
[	V	51	14.881	ug/L	0.185	1	8388	192946	1
[	Cr	52	11.072	ug/L	0.060	0	5986	127050	1
[	Cr	53	10.430	ug/L	0.217	2	2872	16497	1
[	Mn	55	217.893	ug/L	2.218	1	440	4100369	1
[	Co	59	9.738	ug/L	0.165	1	54	145445	0
[>	Ge	72		ug/L			407406	322830	0
[	Ni	60	12.040	ug/L	0.063	0	87	30298	0
[	Ni	62	12.145	ug/L	0.303	2	71	4738	2
[	Cu	63	11.931	ug/L	0.051	0	210	70546	0
[	Cu	65	11.645	ug/L	0.157	1	101	33626	1
[	Zn	66	39.504	ug/L	0.307	0	205	77524	0
[	Zn	67	35.348	ug/L	0.243	0	217	11953	0
[	Zn	68	37.657	ug/L	0.552	1	6749	57995	0
[	As-1	75	12.470	ug/L	0.228	1	480	22593	1
[	As	75	11.993	ug/L	0.111	0	8965	28569	0
[	Se	82	37.908	ug/L	0.641	1	-12	6469	1
[	Se	78	35.554	ug/L	0.246	0	9091	22944	0
[	Mo	98	0.992	ug/L	0.016	1	27	5750	2
	Y	89		ug/L			305272	291441	0
	Kr	83		ug/L			263	220	3
[>	In	115		ug/L			454742	364191	0
[	Ag	107	6.669	ug/L	0.013	0	46	77360	1
[	Cd	111	11.421	ug/L	0.055	0	208	32695	1
[	Cd	114	11.431	ug/L	0.168	1	18	77120	1
[	Sb	121	0.021	ug/L	0.003	14	144	342	10
[	Sb	123	0.018	ug/L	0.003	16	121	242	8
[	Ba	135	17.500	ug/L	0.148	0	20	41193	0
[	Ba	137	17.719	ug/L	0.072	0	29	70671	0
[>	Tb	159		ug/L			437751	402819	0
[	Tl	205	10.362	ug/L	0.017	0	243	312167	0
[	Pb	208	10.875	ug/L	0.019	0	830	436240	0
[	Bi	209		ug/L			369705	322082	0
[	Th	232	10.735	ug/L	0.079	0	282	532982	0
[	U	238	11.127	ug/L	0.103	0	35	600564	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ39 D REN
Sample Dil Factor: 5
Comments:
Sample Date/Time: Tuesday, March 30, 2010 12:43:14
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			287408	415876	1
[	Be	9	0.072	ug/L	0.014	19	5	47	17
	C	13		mg/L			6024	9479	2
	Cl	37		mg/L			3017573	3085500	2
[>	Sc	45		ug/L			274724	268513	4
[	V-1	51	41.754	ug/L	0.384	0	1520	518241	5
[	V	51	41.058	ug/L	0.367	0	8388	526635	5
[	Cr	52	8.714	ug/L	0.059	0	5986	102862	5
[	Cr	53	8.595	ug/L	0.049	0	2872	14307	5
[	Mn	55	131.826	ug/L	1.819	1	440	2521333	5
[	Co	59	0.349	ug/L	0.009	2	54	5345	7
[>	Ge	72		ug/L			407406	322060	5
[	Ni	60	0.782	ug/L	0.019	2	87	2026	4
[	Ni	62	6.928	ug/L	1.306	18	71	2738	23
[	Cu	63	1.981	ug/L	0.166	8	210	11856	13
[	Cu	65	0.447	ug/L	0.032	7	101	1366	11
[	Zn	66	4.014	ug/L	0.043	1	205	8002	4
[	Zn	67	6.621	ug/L	0.175	2	217	2374	7
[	Zn	68	3.811	ug/L	0.156	4	6749	10643	3
[	As-1	75	3.402	ug/L	0.050	1	480	6423	4
[	As	75	3.306	ug/L	0.150	4	8965	12980	3
[	Se	82	0.875	ug/L	0.046	5	-12	139	10
[	Se	78	0.695	ug/L	0.465	66	9091	7486	2
[	Mo	98	0.632	ug/L	0.007	1	27	3663	6
	Y	89		ug/L			305272	357776	4
	Kr	83		ug/L			263	235	1
[>	In	115		ug/L			454742	362389	5
[	Ag	107	0.028	ug/L	0.002	5	46	361	5
[	Cd	111	-0.066	ug/L	0.038	57	208	-19	548
[	Cd	114	0.003	ug/L	0.000	6	18	37	6
[	Sb	121	0.038	ug/L	0.003	8	144	510	11
[	Sb	123	0.033	ug/L	0.004	12	121	364	14
[	Ba	135	5.691	ug/L	0.080	1	20	13336	4
[	Ba	137	5.730	ug/L	0.100	1	29	22753	5
[>	Tb	159		ug/L			437751	390691	3
[	Tl	205	0.001	ug/L	0.000	34	243	254	7
[	Pb	208	0.055	ug/L	0.000	0	830	2863	3
[	Bi	209		ug/L			369705	308625	3
[	Th	232	0.073	ug/L	0.001	0	282	3786	3
[	U	238	0.018	ug/L	0.001	6	35	995	10

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ39 E REN
Sample Dil Factor: 5
Comments:
Sample Date/Time: Tuesday, March 30, 2010 12:50:03
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

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	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			287408	399523	6
[	Be	9	0.072	ug/L	0.015	20	5	45	9
	C	13		mg/L			6024	9150	3
	Cl	37		mg/L			3017573	3265670	4
[>	Sc	45		ug/L			274724	298949	10
[	V-1	51	41.021	ug/L	0.270	0	1520	566757	10
[	V	51	40.321	ug/L	0.280	0	8388	575800	10
[	Cr	52	8.535	ug/L	0.060	0	5986	112296	10
[	Cr	53	8.370	ug/L	0.150	1	2872	15581	9
[	Mn	55	129.575	ug/L	2.281	1	440	2759225	10
[	Co	59	0.370	ug/L	0.009	2	54	6316	11
[>	Ge	72		ug/L			407406	360972	9
[	Ni	60	0.825	ug/L	0.029	3	87	2397	12
[	Ni	62	10.507	ug/L	0.916	8	71	4612	16
[	Cu	63	2.369	ug/L	0.095	4	210	15848	13
[	Cu	65	0.576	ug/L	0.010	1	101	1946	9
[	Zn	66	3.203	ug/L	0.028	0	205	7194	9
[	Zn	67	5.766	ug/L	0.276	4	217	2347	13
[	Zn	68	3.005	ug/L	0.130	4	6749	10665	7
[	As-1	75	3.262	ug/L	0.034	1	480	6920	9
[	As	75	3.048	ug/L	0.290	9	8965	14007	5
[	Se	82	0.560	ug/L	0.096	17	-12	97	27
[	Se	78	-0.071	ug/L	1.104	1547	9091	7985	3
[	Mo	98	0.653	ug/L	0.013	1	27	4245	11
	Y	89		ug/L			305272	388324	9
	Kr	83		ug/L			263	267	4
[>	In	115		ug/L			454742	403447	9
[	Ag	107	0.027	ug/L	0.003	9	46	387	16
[	Cd	111	-0.112	ug/L	0.091	81	208	-174	175
[	Cd	114	0.004	ug/L	0.000	10	18	47	12
[	Sb	121	0.034	ug/L	0.004	10	144	525	16
[	Sb	123	0.037	ug/L	0.001	3	121	432	11
[	Ba	135	5.437	ug/L	0.060	1	20	14193	9
[	Ba	137	5.469	ug/L	0.068	1	29	24202	10
[>	Tb	159		ug/L			437751	420910	8
[	Tl	205	0.001	ug/L	0.001	107	243	260	3
[	Pb	208	0.066	ug/L	0.003	4	830	3540	5
[	Bi	209		ug/L			369705	330452	8
[	Th	232	0.076	ug/L	0.000	0	282	4217	8
[	U	238	0.020	ug/L	0.000	1	35	1141	9

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ39 F REN
Sample Dil Factor: 5
Comments:
Sample Date/Time: Tuesday, March 30, 2010 12:56:57
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			287408	415135	2
[	Be	9	0.016	ug/L	0.002	9	5	17	4
	C	13		mg/L			6024	7266	0
	Cl	37		mg/L			3017573	2799876	0
[>	Sc	45		ug/L			274724	325832	2
[	V-1	51	7.282	ug/L	0.071	0	1520	111142	2
[	V	51	6.903	ug/L	0.061	0	8388	115690	2
[	Cr	52	1.826	ug/L	0.021	1	5986	31758	2
[	Cr	53	1.009	ug/L	0.089	8	2872	5043	0
[	Mn	55	249.929	ug/L	5.003	2	440	5797323	1
[	Co	59	0.412	ug/L	0.004	0	54	7646	2
[>	Ge	72		ug/L			407406	401974	1
[	Ni	60	2.235	ug/L	0.034	1	87	7075	2
[	Ni	62	4.323	ug/L	0.327	7	71	2145	7
[	Cu	63	0.652	ug/L	0.006	0	210	4993	1
[	Cu	65	0.200	ug/L	0.013	6	101	817	4
[	Zn	66	10.617	ug/L	0.107	1	205	26090	1
[	Zn	67	9.954	ug/L	0.171	1	217	4346	3
[	Zn	68	10.028	ug/L	0.184	1	6749	24117	2
[	As-1	75	5.471	ug/L	0.028	0	480	12609	1
[	As	75	5.079	ug/L	0.075	1	8965	20164	1
[	Se	82	0.216	ug/L	0.095	44	-12	33	59
[	Se	78	-1.315	ug/L	0.285	21	9091	8243	0
[	Mo	98	0.784	ug/L	0.016	2	27	5664	2
	Y	89		ug/L			305272	347163	2
	Kr	83		ug/L			263	248	4
[>	In	115		ug/L			454742	447536	1
[	Ag	107	0.007	ug/L	0.001	15	46	149	11
[	Cd	111	-0.037	ug/L	0.011	30	208	74	54
[	Cd	114	0.003	ug/L	0.001	18	18	43	12
[	Sb	121	0.012	ug/L	0.001	8	144	294	6
[	Sb	123	0.012	ug/L	0.001	4	121	240	2
[	Ba	135	7.953	ug/L	0.051	0	20	23015	2
[	Ba	137	7.949	ug/L	0.046	0	29	38972	1
[>	Tb	159		ug/L			437751	456585	1
[	Tl	205	0.003	ug/L	0.000	12	243	352	3
[	Pb	208	0.020	ug/L	0.001	3	830	1769	0
[	Bi	209		ug/L			369705	371542	2
[	Th	232	0.013	ug/L	0.000	2	282	1017	3
[	U	238	0.007	ug/L	0.001	14	35	445	13

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ17 B REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, March 30, 2010 13:03:48
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			287408	431045	8
[	Be	9	0.081	ug/L	0.009	11	5	54	17
	C	13		mg/L			6024	12092	3
	Cl	37		mg/L			3017573	7877107	5
[>	Sc	45		ug/L			274724	363488	9
[	V-1	51	2.811	ug/L	0.028	0	1520	49071	8
[	V	51	5.004	ug/L	0.042	0	8388	96583	8
[	Cr	52	0.702	ug/L	0.043	6	5986	18458	6
[	Cr	53	7.445	ug/L	0.176	2	2872	17279	8
[	Mn	55	3.943	ug/L	0.052	1	440	102569	8
[	Co	59	0.254	ug/L	0.003	1	54	5284	8
[>	Ge	72		ug/L			407406	389608	6
[	Ni	60	4.057	ug/L	0.192	4	87	12401	10
[	Ni	62	6.035	ug/L	0.626	10	71	2888	15
[	Cu	63	4.847	ug/L	0.091	1	210	34737	8
[	Cu	65	3.355	ug/L	0.039	1	101	11765	7
[	Zn	66	5.432	ug/L	0.162	2	205	13049	8
[	Zn	67	6.413	ug/L	0.118	1	217	2787	6
[	Zn	68	5.826	ug/L	0.134	2	6749	16278	5
[	As-1	75	0.954	ug/L	0.082	8	480	2508	9
[	As	75	0.257	ug/L	0.247	96	8965	9107	2
[	Se	82	2.254	ug/L	0.096	4	-12	453	10
[	Se	78	-0.431	ug/L	0.871	202	9091	8444	1
[	Mo	98	1.703	ug/L	0.035	2	27	11905	8
	Y	89		ug/L			305272	347937	6
	Kr	83		ug/L			263	282	2
[>	In	115		ug/L			454742	452959	7
[	Ag	107	0.026	ug/L	0.003	10	46	428	15
[	Cd	111	0.142	ug/L	0.149	104	208	690	68
[	Cd	114	0.551	ug/L	0.017	3	18	4641	6
[	Sb	121	0.458	ug/L	0.006	1	144	6162	8
[	Sb	123	0.452	ug/L	0.010	2	121	4612	5
[	Ba	135	39.835	ug/L	0.927	2	20	116467	5
[	Ba	137	40.015	ug/L	0.597	1	29	198330	5
[>	Tb	159		ug/L			437751	452062	5
[	Tl	205	0.014	ug/L	0.001	8	243	740	9
[	Pb	208	0.348	ug/L	0.011	3	830	16477	4
[	Bi	209		ug/L			369705	352492	6
[	Th	232	0.332	ug/L	0.005	1	282	18799	6
[	U	238	0.125	ug/L	0.002	1	35	7602	7

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ17 C REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, March 30, 2010 13:10:38
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

AS

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	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			287408	314146	4
[	Be	9	0.010	ug/L	0.008	81	5	10	30
	C	13		mg/L			6024	12853	1
	Cl	37		mg/L			3017573	59360816	2
[>	Sc	45		ug/L			274724	319693	4
[	V-1	51	0.582	ug/L	0.125	21	1520	10397	22
[	V	51	12.538	ug/L	0.153	1	8388	198265	5
[	Cr	52	1.015	ug/L	0.035	3	5986	20401	2
[	Cr	53	37.065	ug/L	0.272	0	2872	62384	4
[	Mn	55	482.711	ug/L	8.315	1	440	10982928	3
[	Co	59	1.146	ug/L	0.005	0	54	20762	4
[>	Ge	72		ug/L			407406	303987	1
[	Ni	60	5.277	ug/L	0.172	3	87	12545	4
[	Ni	62	399.290	ug/L	179.337	44	71	145013	45
[	Cu	63	107.129	ug/L	38.249	35	210	595288	36
[	Cu	65	1.969	ug/L	0.183	9	101	5419	9
[	Zn	66	2.869	ug/L	0.040	1	205	5443	2
[	Zn	67	8.971	ug/L	1.019	11	217	2978	11
[	Zn	68	4.774	ug/L	0.107	2	6749	11319	1
[	As-1	75	4.089	ug/L	0.158	3	480	7219	4
[	As	75	1.201	ug/L	0.123	10	8965	8710	0
[	Se	82	-3.641	ug/L	5.928	162	-12	-595	161
[	Se	78	5.409	ug/L	0.670	12	9091	9036	2
[	Mo	98	0.069	ug/L	0.005	7	27	395	8
	Y	89		ug/L			305272	296550	1
	Kr	83		ug/L			263	3580	26
[>	In	115		ug/L			454742	361923	2
[	Ag	107	0.042	ug/L	0.003	6	46	515	7
[	Cd	111	-5.742	ug/L	0.723	12	208	-16058	10
[	Cd	114	0.006	ug/L	0.001	8	18	56	5
[	Sb	121	0.120	ug/L	0.005	4	144	1371	5
[	Sb	123	0.139	ug/L	0.004	2	121	1203	0
[	Ba	135	126.744	ug/L	0.098	0	20	296391	2
[	Ba	137	125.763	ug/L	0.438	0	29	498344	2
[>	Tb	159		ug/L			437751	325490	2
[	Tl	205	0.002	ug/L	0.001	72	243	225	14
[	Pb	208	0.050	ug/L	0.003	5	830	2240	6
[	Bi	209		ug/L			369705	206826	1
[	Th	232	0.007	ug/L	0.002	30	282	487	17
[	U	238	0.005	ug/L	0.000	4	35	252	2

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ17 E REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, March 30, 2010 13:17:29
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

As

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
⌈>	Li	6		ug/L			287408	421439	0
⌊	Be	9	-0.006	ug/L	0.007	129	5	5	74
	C	13		mg/L			6024	9281	1
	Cl	37		mg/L			3017573	19505325	0
⌈>	Sc	45		ug/L			274724	306168	1
⌈	V-1	51	0.311	ug/L	0.250	80	1520	6043	56
⌊	V	51	9.030	ug/L	0.503	5	8388	139262	3
⌈	Cr	52	4.975	ug/L	0.070	1	5986	69810	1
⌊	Cr	53	31.004	ug/L	1.337	4	2872	50491	3
⌈	Mn	55	3.002	ug/L	0.014	0	440	65924	1
⌊	Co	59	0.189	ug/L	0.001	0	54	3335	2
⌈>	Ge	72		ug/L			407406	364358	0
⌈	Ni	60	2.252	ug/L	0.062	2	87	6457	2
⌊	Ni	62	115.450	ug/L	10.827	9	71	50313	9
⌈	Cu	63	16.330	ug/L	0.511	3	210	108924	3
⌊	Cu	65	2.832	ug/L	0.037	1	101	9298	1
⌈	Zn	66	6.423	ug/L	0.036	0	205	14379	0
⌊	Zn	67	8.485	ug/L	0.125	1	217	3385	1
⌈	Zn	68	5.898	ug/L	0.083	1	6749	15342	0
⌈	As-1	75	3.265	ug/L	0.076	2	480	6993	1
⌊	As	75	2.232	ug/L	0.108	4	8965	12527	1
⌈	Se	82	2.670	ug/L	0.166	6	-12	504	6
⌊	Se	78	0.522	ug/L	0.085	16	9091	8391	0
⌊	Mo	98	2.607	ug/L	0.050	1	27	17012	1
	Y	89		ug/L			305272	331936	1
	Kr	83		ug/L			263	630	3
⌈>	In	115		ug/L			454742	437429	0
⌈	Ag	107	0.022	ug/L	0.001	5	46	355	5
⌊	Cd	111	-0.776	ug/L	0.145	18	208	-2455	20
⌈	Cd	114	0.197	ug/L	0.009	4	18	1611	4
⌊	Sb	121	2.503	ug/L	0.014	0	144	31877	0
⌈	Sb	123	2.481	ug/L	0.031	1	121	23948	1
⌊	Ba	135	30.606	ug/L	0.295	0	20	86520	1
⌊	Ba	137	30.652	ug/L	0.649	2	29	146826	2
⌈>	Tb	159		ug/L			437751	420125	0
⌈	Tl	205	-0.001	ug/L	0.001	54	243	200	8
⌊	Pb	208	1.040	ug/L	0.006	0	830	44224	1
⌈	Bi	209		ug/L			369705	313700	0
⌊	Th	232	0.005	ug/L	0.001	25	282	545	13
⌊	U	238	0.313	ug/L	0.001	0	35	17653	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV3
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, March 30, 2010 13:24:19
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			287408	329583	2
[	Be	9	50.523	ug/L	0.679	1	5	21535	3
	C	13		mg/L			6024	5814	0
	Cl	37		mg/L			3017573	3032078	0
[>	Sc	45		ug/L			274724	284546	1
[	V-1	51	50.532	ug/L	0.499	0	1520	664129	1
[	V	51	52.064	ug/L	0.592	1	8388	705133	0
[	Cr	52	50.871	ug/L	0.332	0	5986	606213	0
[	Cr	53	55.472	ug/L	1.226	2	2872	81614	1
[	Mn	55	50.774	ug/L	0.665	1	440	1029060	0
[	Co	59	49.662	ug/L	0.148	0	54	798518	1
[>	Ge	72		ug/L			407406	407809	0
[	Ni	60	53.186	ug/L	0.228	0	87	168776	0
[	Ni	62	75.141	ug/L	3.534	4	71	36668	4
[	Cu	63	53.394	ug/L	0.618	1	210	398115	1
[	Cu	65	52.289	ug/L	0.875	1	101	190391	1
[	Zn	66	53.044	ug/L	0.422	0	205	131428	0
[	Zn	67	53.740	ug/L	0.454	0	217	22843	0
[	Zn	68	51.548	ug/L	0.258	0	6749	97798	0
[	As-1	75	50.792	ug/L	0.305	0	480	114778	0
[	As	75	50.092	ug/L	0.405	0	8965	122238	0
[	Se	82	53.432	ug/L	0.210	0	-12	11525	0
[	Se	78	50.613	ug/L	0.237	0	9091	37407	0
[	Mo	98	51.467	ug/L	0.222	0	27	375435	0
	Y	89		ug/L			305272	313538	0
	Kr	83		ug/L			263	277	4
[>	In	115		ug/L			454742	467277	0
[	Ag	107	51.632	ug/L	0.441	0	46	768086	0
[	Cd	111	51.084	ug/L	0.709	1	208	186885	1
[	Cd	114	51.641	ug/L	0.532	1	18	446981	1
[	Sb	121	49.781	ug/L	0.444	0	144	674388	0
[	Sb	123	49.621	ug/L	0.333	0	121	509193	0
[	Ba	135	49.036	ug/L	0.803	1	20	148054	1
[	Ba	137	48.991	ug/L	0.718	1	29	250644	1
[>	Tb	159		ug/L			437751	452486	0
[	Tl	205	49.678	ug/L	0.440	0	243	1680194	1
[	Pb	208	51.160	ug/L	0.225	0	830	2302018	0
[	Bi	209		ug/L			369705	389698	0
[	Th	232	54.442	ug/L	0.553	1	282	3035141	0
[	U	238	55.111	ug/L	0.639	1	35	3341169	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB3
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, March 30, 2010 13:31:47
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			287408	284373	2
[	Be	9	-0.004	ug/L	0.002	39	5	4	17
	C	13		mg/L			6024	5083	0
	Cl	37		mg/L			3017573	2886326	0
[>	Sc	45		ug/L			274724	277182	0
[	V-1	51	-0.002	ug/L	0.014	768	1520	1511	11
[	V	51	1.318	ug/L	0.069	5	8388	25642	3
[	Cr	52	0.019	ug/L	0.006	31	5986	6257	0
[	Cr	53	4.000	ug/L	0.236	5	2872	8423	4
[	Mn	55	0.028	ug/L	0.004	15	440	997	8
[	Co	59	-0.000	ug/L	0.001	213	54	50	21
[>	Ge	72		ug/L			407406	416685	0
[	Ni	60	-0.003	ug/L	0.002	58	87	78	8
[	Ni	62	11.123	ug/L	0.472	4	71	5608	4
[	Cu	63	0.552	ug/L	0.040	7	210	4414	7
[	Cu	65	0.018	ug/L	0.005	27	101	172	10
[	Zn	66	0.026	ug/L	0.006	24	205	275	6
[	Zn	67	1.027	ug/L	0.035	3	217	663	1
[	Zn	68	-0.620	ug/L	0.044	7	6749	5782	0
[	As-1	75	-0.003	ug/L	0.007	292	480	485	3
[	As	75	-0.452	ug/L	0.030	6	8965	8125	0
[	Se	82	0.020	ug/L	0.060	301	-12	-8	164
[	Se	78	-1.865	ug/L	0.133	7	9091	8232	0
[	Mo	98	0.004	ug/L	0.002	42	27	54	21
	Y	89		ug/L			305272	321670	0
	Kr	83		ug/L			263	252	3
[>	In	115		ug/L			454742	487088	1
[	Ag	107	0.004	ug/L	0.002	37	46	119	22
[	Cd	111	0.008	ug/L	0.003	32	208	253	2
[	Cd	114	0.002	ug/L	0.000	18	18	36	9
[	Sb	121	0.037	ug/L	0.011	28	144	669	21
[	Sb	123	0.035	ug/L	0.010	29	121	502	21
[	Ba	135	0.000	ug/L	0.001	263	20	23	17
[	Ba	137	0.001	ug/L	0.001	92	29	38	17
[>	Tb	159		ug/L			437751	466151	0
[	Tl	205	0.011	ug/L	0.002	14	243	649	8
[	Pb	208	0.012	ug/L	0.003	22	830	1443	8
[	Bi	209		ug/L			369705	401513	0
[	Th	232	0.008	ug/L	0.001	14	282	745	8
[	U	238	0.001	ug/L	0.000	2	35	103	2

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ17 A-L REN
Sample Dil Factor: 25
Comments:
Sample Date/Time: Tuesday, March 30, 2010 13:39:16
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

AS

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			287408	354472	6
[	Be	9	-0.007	ug/L	0.003	44	5	3	33
	C	13		mg/L			6024	5946	3
	Cl	37		mg/L			3017573	5478158	1
[>	Sc	45		ug/L			274724	310613	2
|	V-1	51	0.325	ug/L	0.039	12	1520	6364	7
|	V	51	2.190	ug/L	0.068	3	8388	41449	0
|	Cr	52	0.409	ug/L	0.024	5	5986	12037	4
|	Cr	53	6.031	ug/L	0.118	1	2872	12580	1
|	Mn	55	5.412	ug/L	0.053	0	440	120175	1
[	Co	59	0.057	ug/L	0.002	3	54	1054	1
[>	Ge	72		ug/L			407406	425113	0
|	Ni	60	0.480	ug/L	0.005	1	87	1677	0
|	Ni	62	14.906	ug/L	1.327	8	71	7641	8
|	Cu	63	2.440	ug/L	0.031	1	210	19172	1
|	Cu	65	1.136	ug/L	0.007	0	101	4415	0
|	Zn	66	5.811	ug/L	0.024	0	205	15200	0
|	Zn	67	6.002	ug/L	0.196	3	217	2860	2
|	Zn	68	4.848	ug/L	0.080	1	6749	15968	0
|	As-1	75	0.497	ug/L	0.006	1	480	1666	0
|	As	75	-0.207	ug/L	0.057	27	8965	8866	1
|	Se	82	0.613	ug/L	0.036	5	-12	125	6
|	Se	78	-2.162	ug/L	0.227	10	9091	8226	1
[	Mo	98	0.212	ug/L	0.008	3	27	1638	3
	Y	89		ug/L			305272	339549	0
	Kr	83		ug/L			263	289	3
[>	In	115		ug/L			454742	483456	0
|	Ag	107	0.013	ug/L	0.001	10	46	252	9
|	Cd	111	-0.071	ug/L	0.007	9	208	-48	55
|	Cd	114	0.067	ug/L	0.000	0	18	617	0
|	Sb	121	0.185	ug/L	0.004	2	144	2748	2
|	Sb	123	0.182	ug/L	0.008	4	121	2061	4
|	Ba	135	1.752	ug/L	0.051	2	20	5494	3
[	Ba	137	1.758	ug/L	0.047	2	29	9334	2
[>	Tb	159		ug/L			437751	471683	0
|	Tl	205	0.003	ug/L	0.001	26	243	353	6
|	Pb	208	0.491	ug/L	0.001	0	830	23922	0
|	Bi	209		ug/L			369705	388197	1
|	Th	232	0.008	ug/L	0.000	6	282	748	3
[	U	238	0.035	ug/L	0.001	3	35	2268	3

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ17 A REN
Sample Dil Factor: 5
Comments:
Sample Date/Time: Tuesday, March 30, 2010 13:46:08
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

As

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
⌈>	Li	6		ug/L			287408	384414	3
⌊	Be	9	-0.001	ug/L	0.002	373	5	7	16
	C	13		mg/L			6024	7118	1
	Cl	37		mg/L			3017573	14744309	1
⌈>	Sc	45		ug/L			274724	290159	1
⌈	V-1	51	1.435	ug/L	0.060	4	1520	20793	4
⌊	V	51	8.030	ug/L	0.310	3	8388	118419	4
⌈	Cr	52	1.528	ug/L	0.025	1	5986	24698	1
⌊	Cr	53	21.421	ug/L	0.777	3	2872	34011	4
⌈	Mn	55	25.932	ug/L	0.176	0	440	536200	1
⌊	Co	59	0.271	ug/L	0.007	2	54	4506	2
⌈>	Ge	72		ug/L			407406	352032	0
⌈	Ni	60	2.626	ug/L	0.050	1	87	7265	1
⌊	Ni	62	87.566	ug/L	21.837	24	71	36904	25
⌈	Cu	63	14.433	ug/L	1.307	9	210	93052	9
⌊	Cu	65	5.728	ug/L	0.106	1	101	18082	2
⌈	Zn	66	27.716	ug/L	0.226	0	205	59364	0
⌊	Zn	67	25.591	ug/L	0.328	1	217	9488	1
⌈	Zn	68	25.849	ug/L	0.397	1	6749	45241	1
⌈	As-1	75	2.636	ug/L	0.009	0	480	5536	0
⌊	As	75	1.752	ug/L	0.019	1	8965	11167	0
⌈	Se	82	2.626	ug/L	0.267	10	-12	478	9
⌊	Se	78	0.571	ug/L	0.107	18	9091	8131	0
⌊	Mo	98	1.243	ug/L	0.010	0	27	7852	1
	Y	89		ug/L			305272	317581	1
	Kr	83		ug/L			263	514	7
⌈>	In	115		ug/L			454742	411981	0
⌈	Ag	107	0.057	ug/L	0.001	2	46	796	2
⌊	Cd	111	-0.509	ug/L	0.148	29	208	-1452	33
⌈	Cd	114	0.307	ug/L	0.006	2	18	2360	1
⌊	Sb	121	0.933	ug/L	0.005	0	144	11271	0
⌈	Sb	123	0.921	ug/L	0.023	2	121	8436	2
⌈	Ba	135	8.823	ug/L	0.152	1	20	23505	2
⌊	Ba	137	8.836	ug/L	0.101	1	29	39879	0
⌈>	Tb	159		ug/L			437751	403626	0
⌈	Tl	205	0.001	ug/L	0.000	10	243	267	2
⌊	Pb	208	2.266	ug/L	0.010	0	830	91700	0
⌈	Bi	209		ug/L			369705	313412	1
⌊	Th	232	0.030	ug/L	0.001	4	282	1765	3
⌊	U	238	0.178	ug/L	0.002	1	35	9680	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ17 ADUP REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, March 30, 2010 13:53:56
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

AS

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
⌈>	**Li**	**6**		ug/L			287408	422992	6
⌊	**Be**	**9**	**-0.003**	ug/L	0.003	77	5	6	21
	C	**13**		mg/L			6024	7414	1
	Cl	**37**		mg/L			3017573	14644633	4
⌈>	**Sc**	**45**		ug/L			274724	308718	6
⌈	**V-1**	**51**	**1.150**	ug/L	0.156	13	1520	17971	6
⌊	**V**	**51**	**7.878**	ug/L	0.082	1	8388	123714	5
⌈	**Cr**	**52**	**1.416**	ug/L	0.025	1	5986	24830	5
⌊	**Cr**	**53**	**21.700**	ug/L	0.194	0	2872	36622	7
⌈	**Mn**	**55**	**24.469**	ug/L	0.158	0	440	538251	5
⌊	**Co**	**59**	**0.276**	ug/L	0.008	3	54	4886	8
⌈>	**Ge**	**72**		ug/L			407406	374612	4
⌈	**Ni**	**60**	**2.416**	ug/L	0.075	3	87	7126	7
⌊	**Ni**	**62**	**116.432**	ug/L	14.801	12	71	52311	16
⌈	**Cu**	**63**	**15.118**	ug/L	1.212	8	210	103893	12
⌊	**Cu**	**65**	**5.379**	ug/L	0.101	1	101	18081	5
⌈	**Zn**	**66**	**25.534**	ug/L	0.407	1	205	58239	5
⌊	**Zn**	**67**	**23.922**	ug/L	0.424	1	217	9452	5
⌈	**Zn**	**68**	**23.964**	ug/L	0.208	0	6749	45079	3
⌈	**As-1**	**75**	**2.469**	ug/L	0.070	2	480	5548	6
⌊	**As**	**75**	**1.394**	ug/L	0.087	6	8965	11133	2
⌈	**Se**	**82**	**2.507**	ug/L	0.122	4	-12	486	8
⌊	**Se**	**78**	**-0.334**	ug/L	0.532	159	9091	8180	0
⌊	**Mo**	**98**	**1.175**	ug/L	0.019	1	27	7893	3
	Y	**89**		ug/L			305272	335940	5
	Kr	**83**		ug/L			263	544	4
⌈>	**In**	**115**		ug/L			454742	442638	5
⌈	**Ag**	**107**	**0.050**	ug/L	0.001	2	46	745	3
⌈	**Cd**	**111**	**-0.330**	ug/L	0.029	8	208	-936	8
⌊	**Cd**	**114**	**0.284**	ug/L	0.007	2	18	2344	5
⌈	**Sb**	**121**	**0.841**	ug/L	0.017	1	144	10923	3
⌊	**Sb**	**123**	**0.831**	ug/L	0.018	2	121	8191	3
⌈	**Ba**	**135**	**8.202**	ug/L	0.157	1	20	23459	3
⌊	**Ba**	**137**	**8.163**	ug/L	0.106	1	29	39565	4
⌈>	**Tb**	**159**		ug/L			437751	432275	3
⌈	**Tl**	**205**	**0.001**	ug/L	0.001	192	243	256	9
⌈	**Pb**	**208**	**2.132**	ug/L	0.000	0	830	92429	3
⌈	**Bi**	**209**		ug/L			369705	335213	3
⌈	**Th**	**232**	**0.029**	ug/L	0.000	1	282	1810	4
⌊	**U**	**238**	**0.168**	ug/L	0.003	1	35	9782	5

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ17 ASPK REN
Sample Dil Factor: 5
Comments:
Sample Date/Time: Tuesday, March 30, 2010 14:00:41
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

As

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			287408	418894	1
[	Be	9	9.836	ug/L	0.154	1	5	5336	2
	C	13		mg/L			6024	8190	1
	Cl	37		mg/L			3017573	11153638	1
[>	Sc	45		ug/L			274724	312791	1
[	V-1	51	11.910	ug/L	0.115	0	1520	173383	0
[	V	51	16.609	ug/L	0.136	0	8388	253777	0
[	Cr	52	11.348	ug/L	0.078	0	5986	153959	1
[	Cr	53	25.559	ug/L	0.029	0	2872	43107	1
[	Mn	55	35.953	ug/L	0.219	0	440	801232	1
[	Co	59	9.701	ug/L	0.111	1	54	171495	0
[>	Ge	72		ug/L			407406	381069	1
[	Ni	60	13.683	ug/L	0.067	0	87	40633	0
[	Ni	62	172.601	ug/L	21.748	12	71	78574	11
[	Cu	63	29.356	ug/L	1.122	3	210	204583	3
[	Cu	65	16.410	ug/L	0.303	1	101	55894	1
[	Zn	66	58.963	ug/L	0.538	0	205	136489	1
[	Zn	67	53.521	ug/L	0.183	0	217	21259	0
[	Zn	68	55.971	ug/L	0.712	1	6749	98679	0
[	As-1	75	13.420	ug/L	0.141	1	480	28669	1
[	As	75	12.235	ug/L	0.015	0	8965	34236	1
[	Se	82	37.184	ug/L	0.445	1	-12	7491	2
[	Se	78	33.193	ug/L	0.430	1	9091	25850	1
[	Mo	98	13.785	ug/L	0.073	0	27	93983	0
	Y	89		ug/L			305272	343774	0
	Kr	83		ug/L			263	504	2
[>	In	115		ug/L			454742	450090	1
[	Ag	107	9.863	ug/L	0.065	0	46	141355	1
[	Cd	111	9.659	ug/L	0.041	0	208	34204	2
[	Cd	114	10.473	ug/L	0.143	1	18	87313	0
[	Sb	121	10.924	ug/L	0.137	1	144	142642	0
[	Sb	123	10.787	ug/L	0.102	0	121	106706	0
[	Ba	135	18.645	ug/L	0.130	0	20	54235	1
[	Ba	137	18.613	ug/L	0.340	1	29	91733	1
[>	Tb	159		ug/L			437751	435308	0
[	Tl	205	9.892	ug/L	0.086	0	243	322061	1
[	Pb	208	12.571	ug/L	0.127	1	830	544788	1
[	Bi	209		ug/L			369705	335734	0
[	Th	232	10.934	ug/L	0.100	0	282	586643	1
[	U	238	11.463	ug/L	0.221	1	35	668627	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ17 F REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, March 30, 2010 14:08:27
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

AS

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
⌈>	Li	6		ug/L			287408	451498	0
⌊	Be	9	0.008	ug/L	0.006	70	5	13	24
	C	13		mg/L			6024	9556	1
	Cl	37		mg/L			3017573	17238577	0
⌈>	Sc	45		ug/L			274724	329906	1
|	V-1	51	3.375	ug/L	0.057	1	1520	53139	1
|	V	51	11.169	ug/L	0.101	0	8388	183305	1
|	Cr	52	1.838	ug/L	0.032	1	5986	32318	0
|	Cr	53	25.446	ug/L	0.168	0	2872	45278	0
|	Mn	55	22.693	ug/L	0.089	0	440	533587	1
⌊	Co	59	0.428	ug/L	0.007	1	54	8040	2
⌈>	Ge	72		ug/L			407406	379443	1
|	Ni	60	5.246	ug/L	0.107	2	87	15565	3
|	Ni	62	174.403	ug/L	21.670	12	71	79018	11
|	Cu	63	18.376	ug/L	1.089	5	210	127548	4
|	Cu	65	4.464	ug/L	0.051	1	101	15210	2
|	Zn	66	496.637	ug/L	3.152	0	205	1143280	0
|	Zn	67	434.134	ug/L	1.355	0	217	170267	1
|	Zn	68	481.863	ug/L	4.540	0	6749	798160	1
|	As-1	75	3.576	ug/L	0.028	0	480	7935	2
|	As	75	1.977	ug/L	0.063	3	8965	12509	0
|	Se	82	4.348	ug/L	0.172	3	-12	862	5
|	Se	78	-0.185	ug/L	0.292	157	9091	8369	0
⌊	Mo	98	2.926	ug/L	0.013	0	27	19882	1
	Y	89		ug/L			305272	356486	0
	Kr	83		ug/L			263	640	2
⌈>	In	115		ug/L			454742	449140	1
|	Ag	107	0.018	ug/L	0.001	3	46	300	2
|	Cd	111	1.373	ug/L	0.035	2	208	5028	2
|	Cd	114	2.069	ug/L	0.028	1	18	17233	1
|	Sb	121	1.963	ug/L	0.016	0	144	25695	2
|	Sb	123	1.920	ug/L	0.036	1	121	19056	1
|	Ba	135	105.316	ug/L	0.842	0	20	305639	1
⌊	Ba	137	104.566	ug/L	1.252	1	29	514157	1
⌈>	Tb	159		ug/L			437751	437638	1
|	Tl	205	0.014	ug/L	0.002	14	243	715	11
|	Pb	208	2.182	ug/L	0.012	0	830	95774	1
|	Bi	209		ug/L			369705	334042	1
|	Th	232	0.068	ug/L	0.001	1	282	3964	3
⌊	U	238	0.216	ug/L	0.002	0	35	12701	1

QC17

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ~~QH17~~ I REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, March 30, 2010 14:16:13
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

As

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
>	Li	6		ug/L			287408	405986	2
	Be	9	0.046	ug/L	0.022	47	5	32	35
	C	13		mg/L			6024	11827	2
	Cl	37		mg/L			3017573	4351721	1
>	Sc	45		ug/L			274724	368103	0
	V-1	51	2.414	ug/L	0.056	2	1520	42989	2
	V	51	3.537	ug/L	0.031	0	8388	72444	1
	Cr	52	0.502	ug/L	0.009	1	5986	15686	1
	Cr	53	4.004	ug/L	0.090	2	2872	11192	1
	Mn	55	2.787	ug/L	0.034	1	440	73647	2
	Co	59	0.224	ug/L	0.005	2	54	4741	2
>	Ge	72		ug/L			407406	394496	1
	Ni	60	3.577	ug/L	0.034	0	87	11060	2
	Ni	62	95.950	ug/L	3.769	3	71	45279	4
	Cu	63	8.116	ug/L	0.065	0	210	58710	1
	Cu	65	3.019	ug/L	0.025	0	101	10726	0
	Zn	66	5.181	ug/L	0.026	0	205	12597	1
	Zn	67	6.367	ug/L	0.166	2	217	2802	1
	Zn	68	5.017	ug/L	0.041	0	6749	15107	1
	As-1	75	J 0.869	ug/L	0.019	2	480	2357	2
	As	75	0.065	ug/L	0.043	65	8965	8823	0
	Se	82	1.810	ug/L	0.150	8	-12	366	9
	Se	78	-1.102	ug/L	0.159	14	9091	8206	0
	Mo	98	1.484	ug/L	0.013	0	27	10498	1
	Y	89		ug/L			305272	343608	1
	Kr	83		ug/L			263	328	4
>	In	115		ug/L			454742	461814	1
	Ag	107	0.014	ug/L	0.001	10	46	251	7
	Cd	111	0.179	ug/L	0.026	14	208	859	10
	Cd	114	0.497	ug/L	0.021	4	18	4271	4
	Sb	121	0.416	ug/L	0.008	2	144	5718	2
	Sb	123	0.416	ug/L	0.006	1	121	4345	0
	Ba	135	35.605	ug/L	0.262	0	20	106262	1
	Ba	137	35.387	ug/L	0.227	0	29	178951	1
>	Tb	159		ug/L			437751	455101	0
	Tl	205	0.014	ug/L	0.001	10	243	713	7
	Pb	208	0.245	ug/L	0.004	1	830	11959	2
	Bi	209		ug/L			369705	365635	1
	Th	232	0.192	ug/L	0.006	3	282	11080	3
	U	238	0.083	ug/L	0.002	1	35	5109	2

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ17 L REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, March 30, 2010 14:23:00
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

As

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			287408	464559	1
[	Be	9	0.002	ug/L	0.008	474	5	10	45
	C	13		mg/L			6024	12341	1
	Cl	37		mg/L			3017573	7336966	0
[>	Sc	45		ug/L			274724	380494	0
[	V-1	51	1.850	ug/L	0.030	1	1520	34542	0
[	V	51	4.970	ug/L	0.089	1	8388	100528	2
[	Cr	52	0.425	ug/L	0.006	1	5986	14990	0
[	Cr	53	9.924	ug/L	0.343	3	2872	22795	3
[	Mn	55	0.745	ug/L	0.010	1	440	20785	1
[	Co	59	0.105	ug/L	0.004	4	54	2325	3
[>	Ge	72		ug/L			407406	402279	1
[	Ni	60	3.353	ug/L	0.066	1	87	10574	1
[	Ni	62	76.657	ug/L	1.587	2	71	36895	1
[	Cu	63	6.578	ug/L	0.064	0	210	48560	1
[	Cu	65	2.432	ug/L	0.030	1	101	8829	1
[	Zn	66	3.110	ug/L	0.034	1	205	7793	2
[	Zn	67	4.628	ug/L	0.186	4	217	2137	4
[	Zn	68	3.035	ug/L	0.064	2	6749	11951	1
[	As-1	75	0.729	ug/L	0.026	3	480	2092	3
[	As	75	V -0.152	ug/L	0.021	13	8965	8512	0
[	Se	82	1.579	ug/L	0.102	6	-12	324	6
[	Se	78	-1.631	ug/L	0.133	8	9091	8076	0
[	Mo	98	1.525	ug/L	0.037	2	27	10997	1
	Y	89		ug/L			305272	351938	0
	Kr	83		ug/L			263	338	6
[>	In	115		ug/L			454742	469724	1
[	Ag	107	0.004	ug/L	0.000	12	46	107	7
[	Cd	111	0.197	ug/L	0.063	32	208	938	24
[	Cd	114	0.457	ug/L	0.009	1	18	3992	0
[	Sb	121	0.459	ug/L	0.003	0	144	6394	1
[	Sb	123	0.453	ug/L	0.010	2	121	4799	2
[	Ba	135	32.679	ug/L	0.139	0	20	99198	1
[	Ba	137	32.799	ug/L	0.184	0	29	168696	0
[>	Tb	159		ug/L			437751	477195	0
[	Tl	205	0.009	ug/L	0.000	5	243	572	2
[	Pb	208	0.068	ug/L	0.000	0	830	4139	0
[	Bi	209		ug/L			369705	380076	0
[	Th	232	0.009	ug/L	0.001	12	282	862	7
[	U	238	0.018	ug/L	0.000	0	35	1211	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ17 O REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, March 30, 2010 14:29:47
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

As

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
⌈>	**Li**	**6**		ug/L			287408	449802	1
⌊	**Be**	**9**	**-0.009**	ug/L	0.002	21	5	3	33
	C	**13**		mg/L			6024	9289	1
	Cl	**37**		mg/L			3017573	15630820	0
⌈>	**Sc**	**45**		ug/L			274724	324891	1
|	**V-1**	**51**	**1.126**	ug/L	0.095	8	1520	18636	6
|	**V**	**51**	**7.199**	ug/L	0.033	0	8388	119890	2
|	**Cr**	**52**	**0.603**	ug/L	0.010	1	5986	15205	2
|	**Cr**	**53**	**18.960**	ug/L	0.380	2	2872	34098	3
|	**Mn**	**55**	**0.652**	ug/L	0.003	0	440	15603	1
⌊	**Co**	**59**	**0.084**	ug/L	0.005	5	54	1609	7
⌈>	**Ge**	**72**		ug/L			407406	384400	1
|	**Ni**	**60**	**3.513**	ug/L	0.100	2	87	10583	3
|	**Ni**	**62**	**133.975**	ug/L	20.070	14	71	61594	15
|	**Cu**	**63**	**12.003**	ug/L	0.877	7	210	84527	7
|	**Cu**	**65**	**1.950**	ug/L	0.043	2	101	6784	2
|	**Zn**	**66**	**398.701**	ug/L	6.535	1	205	929793	1
|	**Zn**	**67**	**350.012**	ug/L	5.741	1	217	139093	0
|	**Zn**	**68**	**382.061**	ug/L	6.554	1	6749	642328	0
|	**As-1**	**75**	**1.842**	ug/L	0.018	0	480	4360	1
|	**As**	**75**	**0.675**	ug/L	0.057	8	8965	9897	0
|	**Se**	**82**	**2.473**	ug/L	0.145	5	-12	491	6
|	**Se**	**78**	**-0.723**	ug/L	0.235	32	9091	8196	1
⌊	**Mo**	**98**	**2.755**	ug/L	0.019	0	27	18964	1
	Y	**89**		ug/L			305272	338868	2
	Kr	**83**		ug/L			263	564	5
⌈>	**In**	**115**		ug/L			454742	455797	0
|	**Ag**	**107**	**0.006**	ug/L	0.000	3	46	127	2
|	**Cd**	**111**	**0.943**	ug/L	0.070	7	208	3571	7
|	**Cd**	**114**	**1.648**	ug/L	0.002	0	18	13928	0
|	**Sb**	**121**	**1.748**	ug/L	0.008	0	144	23234	0
|	**Sb**	**123**	**1.721**	ug/L	0.018	1	121	17343	0
|	**Ba**	**135**	**90.467**	ug/L	0.346	0	20	266437	0
⌊	**Ba**	**137**	**90.649**	ug/L	1.001	1	29	452384	1
⌈>	**Tb**	**159**		ug/L			437751	440159	0
|	**Tl**	**205**	**0.003**	ug/L	0.001	17	243	348	5
|	**Pb**	**208**	**0.107**	ug/L	0.002	1	830	5522	0
|	**Bi**	**209**		ug/L			369705	337099	1
|	**Th**	**232**	**0.001**	ug/L	0.000	52	282	315	4
⌊	**U**	**238**	**0.151**	ug/L	0.001	0	35	8945	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ17 Q REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, March 30, 2010 14:36:34
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

AS

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			287408	442045	2
[	Be	9	0.003	ug/L	0.005	148	5	10	24
	C	13		mg/L			6024	11867	0
	Cl	37		mg/L			3017573	7472129	0
[>	Sc	45		ug/L			274724	358776	0
[	V-1	51	1.749	ug/L	0.047	2	1520	30897	3
[	V	51	5.558	ug/L	0.092	1	8388	104697	0
[	Cr	52	0.471	ug/L	0.014	2	5986	14823	0
[	Cr	53	12.042	ug/L	0.418	3	2872	25275	2
[	Mn	55	0.800	ug/L	0.005	0	440	21015	0
[	Co	59	0.167	ug/L	0.007	4	54	3449	3
[>	Ge	72		ug/L			407406	387583	0
[	Ni	60	3.347	ug/L	0.063	1	87	10172	2
[	Ni	62	84.740	ug/L	1.560	1	71	39290	1
[	Cu	63	6.868	ug/L	0.076	1	210	48841	0
[	Cu	65	2.375	ug/L	0.019	0	101	8311	0
[	Zn	66	2.715	ug/L	0.076	2	205	6578	2
[	Zn	67	4.213	ug/L	0.083	1	217	1892	1
[	Zn	68	2.654	ug/L	0.105	3	6749	10875	0
[	As-1	75	0.768	ug/L	0.065	8	480	2099	6
[	As	75	-0.020	ug/L	0.081	406	8965	8485	1
[	Se	82	1.658	ug/L	0.037	2	-12	328	1
[	Se	78	-1.063	ug/L	0.172	16	9091	8083	0
[	Mo	98	1.506	ug/L	0.035	2	27	10468	1
	Y	89		ug/L			305272	337516	0
	Kr	83		ug/L			263	349	3
[>	In	115		ug/L			454742	455047	0
[	Ag	107	0.004	ug/L	0.000	9	46	104	5
[	Cd	111	0.227	ug/L	0.025	10	208	1014	7
[	Cd	114	0.468	ug/L	0.011	2	18	3961	2
[	Sb	121	0.468	ug/L	0.005	1	144	6320	0
[	Sb	123	0.454	ug/L	0.010	2	121	4653	1
[	Ba	135	33.018	ug/L	0.115	0	20	97092	0
[	Ba	137	33.105	ug/L	0.328	0	29	164952	1
[>	Tb	159		ug/L			437751	458245	1
[	Tl	205	0.008	ug/L	0.001	12	243	537	7
[	Pb	208	0.068	ug/L	0.001	1	830	3981	0
[	Bi	209		ug/L			369705	365335	0
[	Th	232	0.008	ug/L	0.001	12	282	743	8
[	U	238	0.020	ug/L	0.000	1	35	1294	2

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ71 C REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, March 30, 2010 14:43:22
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

rerun CC

	Analyte	Mass		Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6			ug/L			287408	439068	1
[	Be	9		0.031	ug/L	0.003	10	5	26	8
	C	13			mg/L			6024	11584	1
	Cl	37			mg/L			3017573	15089027	1
[>	Sc	45			ug/L			274724	432672	0
[	V-1	51		3.358	ug/L	0.048	1	1520	69348	2
[	V	51		6.308	ug/L	0.060	0	8388	141509	0
[	Cr	52		1.211	ug/L	0.013	1	5986	31153	1
[	Cr	53		10.240	ug/L	0.303	2	2872	26596	1
[	Mn	55		886.974	ug/L	7.280	0	440	27324064	0
[	Co	59		1.081	ug/L	0.017	1	54	26504	1
[>	Ge	72			ug/L			407406	405632	1
[	Ni	60		8.374	ug/L	0.148	1	87	26501	1
[	Ni	62		105.865	ug/L	16.575	15	71	51359	15
[	Cu	63		11.699	ug/L	1.825	15	210	86930	15
[	Cu	65	U	0.435	ug/L	0.016	3	101	1676	2
[	Zn	66		19.674	ug/L	0.196	0	205	48611	0
[	Zn	67		19.629	ug/L	0.019	0	217	8436	1
[	Zn	68		19.166	ug/L	0.152	0	6749	40387	0
[	As-1	75		2.092	ug/L	0.052	2	480	5162	3
[	As	75	U	0.063	ug/L	0.094	149	8965	9068	2
[	Se	82		5.623	ug/L	0.177	3	-12	1195	4
[	Se	78		-0.902	ug/L	0.349	38	9091	8549	2
[	Mo	98		4.754	ug/L	0.018	0	27	34519	1
	Y	89			ug/L			305272	368366	1
	Kr	83			ug/L			263	640	4
[>	In	115			ug/L			454742	477474	0
[	Ag	107	U	0.012	ug/L	0.000	3	46	230	3
[	Cd	111		-1.638	ug/L	0.219	13	208	-5897	13
[	Cd	114	U	0.039	ug/L	0.003	7	18	365	6
[	Sb	121		0.113	ug/L	0.002	1	144	1708	1
[	Sb	123		0.113	ug/L	0.001	1	121	1314	0
[	Ba	135		32.588	ug/L	0.201	0	20	100552	0
[	Ba	137		32.730	ug/L	0.542	1	29	171116	1
[>	Tb	159			ug/L			437751	455762	1
[	Tl	205	U	-0.002	ug/L	0.000	10	243	182	3
[	Pb	208	U	0.092	ug/L	0.001	1	830	5016	0
[	Bi	209			ug/L			369705	345764	0
[	Th	232		0.012	ug/L	0.002	13	282	957	8
[	U	238		0.014	ug/L	0.000	1	35	863	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV4
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, March 30, 2010 14:50:11
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
>	Li	6		ug/L			287408	371674	2
	Be	9	50.375	ug/L	0.335	0	5	24215	2
	C	13		mg/L			6024	6307	0
	Cl	37		mg/L			3017573	3091879	1
>	Sc	45		ug/L			274724	290431	1
	V-1	51	49.391	ug/L	0.244	0	1520	662590	0
	V	51	50.014	ug/L	0.326	0	8388	691741	0
	Cr	52	49.414	ug/L	0.755	1	5986	601186	1
	Cr	53	51.291	ug/L	0.857	1	2872	77256	0
	Mn	55	50.260	ug/L	0.814	1	440	1039737	1
	Co	59	47.778	ug/L	0.585	1	54	784036	0
>	Ge	72		ug/L			407406	407661	0
	Ni	60	52.141	ug/L	0.549	1	87	165398	0
	Ni	62	86.121	ug/L	2.276	2	71	42004	2
	Cu	63	53.790	ug/L	0.450	0	210	400905	0
	Cu	65	50.798	ug/L	0.574	1	101	184892	0
	Zn	66	51.727	ug/L	0.177	0	205	128125	0
	Zn	67	51.073	ug/L	1.017	1	217	21711	1
	Zn	68	50.744	ug/L	0.489	0	6749	96340	0
	As-1	75	49.637	ug/L	0.299	0	480	112135	0
	As	75	49.013	ug/L	0.245	0	8965	119753	0
	Se	82	52.416	ug/L	0.625	1	-12	11301	0
	Se	78	49.857	ug/L	0.324	0	9091	36970	0
	Mo	98	51.222	ug/L	0.358	0	27	373507	0
	Y	89		ug/L			305272	317357	0
	Kr	83		ug/L			263	267	2
>	In	115		ug/L			454742	459466	1
	Ag	107	51.556	ug/L	0.503	0	46	754101	0
	Cd	111	50.773	ug/L	0.695	1	208	182628	0
	Cd	114	51.485	ug/L	0.982	1	18	438120	1
	Sb	121	48.967	ug/L	0.481	0	144	652230	0
	Sb	123	48.727	ug/L	0.599	1	121	491622	0
	Ba	135	48.624	ug/L	0.951	1	20	144342	0
	Ba	137	48.331	ug/L	0.940	1	29	243108	0
>	Tb	159		ug/L			437751	446924	0
	Tl	205	49.522	ug/L	0.236	0	243	1654321	0
	Pb	208	51.056	ug/L	0.013	0	830	2269119	0
	Bi	209		ug/L			369705	381114	0
	Th	232	54.286	ug/L	0.275	0	282	2989237	0
	U	238	55.140	ug/L	0.485	0	35	3301880	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB4
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, March 30, 2010 14:57:43
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			287408	356811	1
[	Be	9	-0.001	ug/L	0.011	897	5	6	78
	C	13		mg/L			6024	5806	0
	Cl	37		mg/L			3017573	3084725	0
[>	Sc	45		ug/L			274724	295300	0
[	V-1	51	-0.007	ug/L	0.009	125	1520	1531	7
[	V	51	0.354	ug/L	0.002	0	8388	13933	0
[	Cr	52	-0.038	ug/L	0.008	22	5986	5971	1
[	Cr	53	1.055	ug/L	0.027	2	2872	4640	1
[	Mn	55	0.013	ug/L	0.003	20	440	743	7
[	Co	59	-0.001	ug/L	0.001	128	54	48	26
[>	Ge	72		ug/L			407406	410319	0
[	Ni	60	-0.005	ug/L	0.001	23	87	73	5
[	Ni	62	20.881	ug/L	0.775	3	71	10306	4
[	Cu	63	0.824	ug/L	0.032	3	210	6389	4
[	Cu	65	0.019	ug/L	0.002	11	101	172	4
[	Zn	66	0.017	ug/L	0.003	18	205	250	3
[	Zn	67	0.516	ug/L	0.042	8	217	437	3
[	Zn	68	-0.526	ug/L	0.088	16	6749	5862	2
[	As-1	75	0.011	ug/L	0.014	124	480	509	6
[	As	75	-0.388	ug/L	0.022	5	8965	8146	0
[	Se	82	0.102	ug/L	0.067	66	-12	9	147
[	Se	78	-1.582	ug/L	0.096	6	9091	8266	0
[	Mo	98	0.005	ug/L	0.001	21	27	67	13
	Y	89		ug/L			305272	320755	0
	Kr	83		ug/L			263	249	2
[>	In	115		ug/L			454742	467312	0
[	Ag	107	0.002	ug/L	0.001	46	46	84	20
[	Cd	111	0.001	ug/L	0.002	346	208	216	3
[	Cd	114	0.001	ug/L	0.000	39	18	27	12
[	Sb	121	0.049	ug/L	0.009	18	144	809	15
[	Sb	123	0.047	ug/L	0.011	24	121	604	19
[	Ba	135	-0.002	ug/L	0.002	124	20	16	35
[	Ba	137	-0.000	ug/L	0.001	165	29	28	10
[>	Tb	159		ug/L			437751	455818	0
[	Tl	205	0.011	ug/L	0.002	16	243	612	8
[	Pb	208	0.008	ug/L	0.005	60	830	1245	18
[	Bi	209		ug/L			369705	391784	0
[	Th	232	0.008	ug/L	0.001	14	282	734	8
[	U	238	0.001	ug/L	0.000	2	35	91	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ71 MB1 REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, March 30, 2010 15:12:54
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

	Analyte	Mass		Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6			ug/L			287408	379090	0
[	Be	9		-0.000	ug/L	0.004	1043	5	7	28
	C	13			mg/L			6024	6965	2
	Cl	37			mg/L			3017573	3069819	0
[>	Sc	45			ug/L			274724	314364	0
[	V-1	51		0.008	ug/L	0.020	248	1520	1857	15
[	V	51		0.195	ug/L	0.018	9	8388	12479	1
[	Cr	52	U	-0.012	ug/L	0.006	46	5986	6688	0
[	Cr	53		0.552	ug/L	0.005	0	2872	4152	0
[	Mn	55		0.089	ug/L	0.003	3	440	2501	2
[	Co	59		0.039	ug/L	0.003	8	54	753	7
[>	Ge	72			ug/L			407406	427923	1
[	Ni	60	U	0.003	ug/L	0.001	36	87	101	4
[	Ni	62		12.997	ug/L	0.477	3	71	6718	4
[	Cu	63		0.534	ug/L	0.015	2	210	4399	3
[	Cu	65	U	0.059	ug/L	0.006	10	101	333	7
[	Zn	66		0.643	ug/L	0.028	4	205	1885	3
[	Zn	67		1.009	ug/L	0.042	4	217	673	3
[	Zn	68		-0.060	ug/L	0.107	178	6749	6979	3
[	As-1	75	U	0.000	ug/L	0.020	8516	480	505	9
[	As	75		-0.509	ug/L	0.032	6	8965	8207	0
[	Se	82		0.092	ug/L	0.065	70	-12	7	184
[	Se	78		-2.085	ug/L	0.177	8	9091	8325	0
[	Mo	98		0.003	ug/L	0.001	30	27	50	13
	Y	89			ug/L			305272	338339	1
	Kr	83			ug/L			263	248	3
[>	In	115			ug/L			454742	487437	1
[	Ag	107	U	0.005	ug/L	0.001	12	46	133	8
[	Cd	111	U	0.007	ug/L	0.002	32	208	250	4
[	Cd	114		0.004	ug/L	0.001	16	18	56	9
[	Sb	121		-0.002	ug/L	0.000	15	144	126	3
[	Sb	123		-0.003	ug/L	0.002	63	121	98	19
[	Ba	135		0.039	ug/L	0.003	7	20	146	6
[	Ba	137		0.035	ug/L	0.004	12	29	217	10
[>	Tb	159			ug/L			437751	478139	0
[	Tl	205	U	0.002	ug/L	0.000	16	243	345	4
[	Pb	208	U	0.003	ug/L	0.001	20	830	1063	2
[	Bi	209			ug/L			369705	408613	0
[	Th	232		0.002	ug/L	0.001	34	282	396	6
[	U	238		0.004	ug/L	0.000	2	35	283	3

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ71 MB1SPK REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, March 30, 2010 15:19:43
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
⌈>	Li	6		ug/L			287408	376263	0
⌊	Be	9	25.356	ug/L	0.538	2	5	12341	1
	C	13		mg/L			6024	8327	1
	Cl	37		mg/L			3017573	3087959	0
⌈>	Sc	45		ug/L			274724	303196	1
|	V-1	51	25.101	ug/L	0.108	0	1520	352359	1
|	V	51	25.236	ug/L	0.073	0	8388	368966	0
|	Cr	52	25.291	ug/L	0.523	2	5986	324435	1
|	Cr	53	25.687	ug/L	0.565	2	2872	41972	0
|	Mn	55	25.459	ug/L	0.150	0	440	550079	0
⌊	Co	59	24.752	ug/L	0.282	1	54	424071	0
⌈>	Ge	72		ug/L			407406	413721	1
|	Ni	60	27.601	ug/L	0.551	1	87	88885	0
|	Ni	62	39.001	ug/L	0.632	1	71	19343	1
|	Cu	63	28.301	ug/L	0.350	1	210	214152	0
|	Cu	65	27.450	ug/L	0.336	1	101	101437	0
|	Zn	66	84.040	ug/L	0.698	0	205	211115	0
|	Zn	67	76.419	ug/L	1.390	1	217	32857	0
|	Zn	68	81.101	ug/L	0.531	0	6749	152160	0
|	As-1	75	25.568	ug/L	0.362	1	480	58856	1
|	As	75	24.851	ug/L	0.411	1	8965	66103	0
|	Se	82	83.067	ug/L	1.054	1	-12	18183	1
|	Se	78	78.964	ug/L	1.396	1	9091	54029	0
⌊	Mo	98	0.012	ug/L	0.001	6	27	120	4
	Y	89		ug/L			305272	331594	0
	Kr	83		ug/L			263	247	2
⌈>	In	115		ug/L			454742	477906	1
|	Ag	107	25.204	ug/L	0.264	1	46	383476	0
|	Cd	111	25.597	ug/L	0.252	0	208	95879	0
|	Cd	114	25.565	ug/L	0.279	1	18	226307	0
|	Sb	121	0.007	ug/L	0.000	5	144	247	1
|	Sb	123	0.005	ug/L	0.001	25	121	181	7
|	Ba	135	24.644	ug/L	0.194	0	20	76117	1
⌊	Ba	137	24.392	ug/L	0.093	0	29	127655	1
⌈>	Tb	159		ug/L			437751	466461	1
|	Tl	205	25.320	ug/L	0.156	0	243	882902	1
|	Pb	208	26.213	ug/L	0.238	0	830	1216269	0
|	Bi	209		ug/L			369705	401344	0
|	Th	232	25.202	ug/L	0.218	0	282	1448465	0
⌊	U	238	25.510	ug/L	0.069	0	35	1594380	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ71 B-L REN
Sample Dil Factor: 10
Comments:
Sample Date/Time: Tuesday, March 30, 2010 15:26:33
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

rerun Cr, Ag

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			287408	383335	0
[	Be	9	-0.005	ug/L	0.006	121	5	5	53
	C	13		mg/L			6024	6267	0
	Cl	37		mg/L			3017573	3048352	0
[>	Sc	45		ug/L			274724	312845	0
	V-1	51	0.786	ug/L	0.020	2	1520	13061	2
	V	51	0.933	ug/L	0.017	1	8388	23268	0
	Cr	52	0.106	ug/L	0.014	13	5986	8186	1
	Cr	53	0.589	ug/L	0.089	15	2872	4189	2
	Mn	55	96.483	ug/L	1.125	1	440	2149532	0
[	Co	59	0.060	ug/L	0.003	4	54	1115	4
[>	Ge	72		ug/L			407406	397389	0
	Ni	60	J 0.326	ug/L	0.010	3	87	1092	2
	Ni	62	12.857	ug/L	0.587	4	71	6171	4
	Cu	63	0.634	ug/L	0.018	2	210	4810	2
	Cu	65	U 0.107	ug/L	0.007	6	101	477	4
	Zn	66	0.569	ug/L	0.019	3	205	1573	3
	Zn	67	1.057	ug/L	0.021	2	217	645	1
	Zn	68	0.032	ug/L	0.075	235	6749	6638	1
	As-1	75	3.322	ug/L	0.037	1	480	7753	1
	As	75	2.879	ug/L	0.026	0	8965	15088	0
	Se	82	0.133	ug/L	0.038	28	-12	16	50
	Se	78	-1.656	ug/L	0.100	6	9091	7965	1
[	Mo	98	0.280	ug/L	0.005	1	27	2020	1
	Y	89		ug/L			305272	318011	0
	Kr	83		ug/L			263	243	3
[>	In	115		ug/L			454742	453105	0
	Ag	107	0.005	ug/L	0.001	24	46	123	15
	Cd	111	J -0.001	ug/L	0.003	252	208	203	6
	Cd	114	0.003	ug/L	0.000	13	18	45	8
	Sb	121	0.103	ug/L	0.002	2	144	1490	1
	Sb	123	0.105	ug/L	0.004	3	121	1162	3
	Ba	135	3.633	ug/L	0.057	1	20	10656	1
[	Ba	137	3.682	ug/L	0.034	0	29	18295	0
[>	Tb	159	J	ug/L			437751	450948	1
	Tl	205	U 0.006	ug/L	0.001	17	243	446	8
	Pb	208	0.024	ug/L	0.002	9	830	1918	6
	Bi	209		ug/L			369705	377957	0
	Th	232	0.012	ug/L	0.003	27	282	983	19
[	U	238	0.005	ug/L	0.000	6	35	335	5

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ71 B REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, March 30, 2010 15:33:23
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

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Cr Ag

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			287408	403354	1
[	Be	9	0.007	ug/L	0.007	108	5	11	32
	C	13		mg/L			6024	8869	0
	Cl	37		mg/L			3017573	3191859	0
[>	Sc	45		ug/L			274724	387995	1
[	V-1	51	3.158	ug/L	0.012	0	1520	58612	1
[	V	51	3.154	ug/L	0.028	0	8388	69378	1
[	Cr	52	0.631	ug/L	0.012	1	5986	18593	0
[	Cr	53	0.770	ug/L	0.097	12	2872	5544	1
[	Mn	55	374.826	ug/L	6.300	1	440	10353290	0
[	Co	59	0.262	ug/L	0.006	2	54	5812	0
[>	Ge	72		ug/L			407406	393495	0
[	Ni	60	1.497	ug/L	0.044	2	87	4666	2
[	Ni	62	18.522	ug/L	1.439	7	71	8773	7
[	Cu	63	1.411	ug/L	0.073	5	210	10351	4
[	Cu	65	U 0.374	ug/L	0.011	3	101	1411	2
[	Zn	66	2.061	ug/L	0.009	0	205	5116	0
[	Zn	67	2.876	ug/L	0.093	3	217	1378	2
[	Zn	68	2.187	ug/L	0.146	6	6749	10245	2
[	As-1	75	15.887	ug/L	0.137	0	480	34960	0
[	As	75	15.397	ug/L	0.142	0	8965	42251	0
[	Se	82	0.336	ug/L	0.070	20	-12	58	24
[	Se	78	-1.346	ug/L	0.071	5	9091	8054	0
[	Mo	98	1.404	ug/L	0.019	1	27	9909	1
	Y	89		ug/L			305272	331353	1
	Kr	83		ug/L			263	253	3
[>	In	115		ug/L			454742	448170	0
[	Ag	107	U 0.015	ug/L	0.000	3	46	264	1
[	Cd	111	U -0.008	ug/L	0.020	257	208	177	40
[	Cd	114	0.014	ug/L	0.001	9	18	137	7
[	Sb	121	0.557	ug/L	0.008	1	144	7373	0
[	Sb	123	0.539	ug/L	0.015	2	121	5418	2
[	Ba	135	17.741	ug/L	0.225	1	20	51388	0
[	Ba	137	17.734	ug/L	0.122	0	29	87044	0
[>	Tb	159		ug/L			437751	453681	1
[	Tl	205	U 0.008	ug/L	0.000	4	243	529	3
[	Pb	208	U 0.075	ug/L	0.001	1	830	4236	1
[	Bi	209		ug/L			369705	368725	0
[	Th	232	0.024	ug/L	0.003	13	282	1647	10
[	U	238	0.023	ug/L	0.001	3	35	1420	2

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ71 BDUP REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, March 30, 2010 15:41:14
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

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	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			287408	419565	0
[	Be	9	0.007	ug/L	0.008	110	5	12	34
	C	13		mg/L			6024	9490	1
	Cl	37		mg/L			3017573	3184085	0
[>	Sc	45		ug/L			274724	383065	0
[	V-1	51	3.160	ug/L	0.029	0	1520	57905	0
[	V	51	3.134	ug/L	0.029	0	8388	68131	0
[	Cr	52	0.696	ug/L	0.025	3	5986	19406	1
[	Cr	53	0.763	ug/L	0.019	2	2872	5463	0
[	Mn	55	382.882	ug/L	1.420	0	440	10443503	0
[	Co	59	0.270	ug/L	0.013	4	54	5926	4
[>	Ge	72		ug/L			407406	393727	0
[	Ni	60	1.479	ug/L	0.025	1	87	4613	1
[	Ni	62	23.029	ug/L	0.962	4	71	10899	4
[	Cu	63	1.551	ug/L	0.043	2	210	11364	2
[	Cu	65	0.368	ug/L	0.013	3	101	1391	3
[	Zn	66	1.485	ug/L	0.016	1	205	3746	1
[	Zn	67	2.339	ug/L	0.081	3	217	1160	2
[	Zn	68	1.623	ug/L	0.102	6	6749	9291	2
[	As-1	75	15.851	ug/L	0.100	0	480	34902	0
[	As	75	15.354	ug/L	0.142	0	8965	42181	0
[	Se	82	0.391	ug/L	0.052	13	-12	69	16
[	Se	78	-1.363	ug/L	0.146	10	9091	8050	0
[	Mo	98	1.396	ug/L	0.018	1	27	9860	1
	Y	89		ug/L			305272	330966	0
	Kr	83		ug/L			263	244	3
[>	In	115		ug/L			454742	444212	1
[	Ag	107	0.011	ug/L	0.001	11	46	201	8
[	Cd	111	0.006	ug/L	0.024	392	208	225	37
[	Cd	114	0.009	ug/L	0.001	8	18	90	5
[	Sb	121	0.548	ug/L	0.013	2	144	7199	1
[	Sb	123	0.547	ug/L	0.012	2	121	5452	1
[	Ba	135	17.710	ug/L	0.053	0	20	50847	1
[	Ba	137	17.840	ug/L	0.199	1	29	86783	0
[>	Tb	159		ug/L			437751	449664	0
[	Tl	205	0.004	ug/L	0.000	9	243	374	3
[	Pb	208	0.063	ug/L	0.001	0	830	3690	0
[	Bi	209		ug/L			369705	366103	0
[	Th	232	0.013	ug/L	0.001	6	282	1008	4
[	U	238	0.018	ug/L	0.001	3	35	1095	3

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ71 BSPK REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, March 30, 2010 15:49:05
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

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	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			287408	424114	2
[	Be	9	25.206	ug/L	0.685	2	5	13825	0
	C	13		mg/L			6024	9097	0
	Cl	37		mg/L			3017573	3150095	1
[>	Sc	45		ug/L			274724	374929 →	1
[	V-1	51	23.327	ug/L	0.266	1	1520	405084	1
[	V	51	23.264	ug/L	0.219	0	8388	421509	1
[	Cr	52	20.309	ug/L	0.301	1	5986	323777	0
[	Cr	53	20.299	ug/L	0.306	1	2872	41839	0
[	Mn	55	405.335	ug/L	3.776	0	440	10821912	2
[	Co	59	18.860	ug/L	0.031	0	54	399615	1
[>	Ge	72		ug/L			407406	386992	1
[	Ni	60	28.389	ug/L	0.181	0	87	85524	1
[	Ni	62	52.305	ug/L	1.330	2	71	24237	1
[	Cu	63	28.527	ug/L	0.169	0	210	201920	0
[	Cu	65	26.537	ug/L	0.372	1	101	91727	0
[	Zn	66	81.346	ug/L	0.894	1	205	191140	0
[	Zn	67	75.831	ug/L	1.275	1	217	30499	0
[	Zn	68	80.267	ug/L	0.895	1	6749	140928	0
[	As-1	75	42.518	ug/L	0.377	0	480	91242	0
[	As	75	41.913	ug/L	0.268	0	8965	98442	0
[	Se	82	84.059	ug/L	1.226	1	-12	17210	0
[	Se	78	80.855	ug/L	0.522	0	9091	51545	0
[	Mo	98	1.384	ug/L	0.024	1	27	9604	2
	Y	89		ug/L			305272	326404	1
	Kr	83		ug/L			263	261	3
[>	In	115		ug/L			454742	446281	1
[	Ag	107	15.032	ug/L	0.201	1	46	213572	0
[	Cd	111	26.145	ug/L	0.092	0	208	91453	1
[	Cd	114	26.303	ug/L	0.147	0	18	217442	1
[	Sb	121	0.543	ug/L	0.004	0	144	7159	2
[	Sb	123	0.543	ug/L	0.006	1	121	5443	1
[	Ba	135	43.301	ug/L	0.306	0	20	124864	1
[	Ba	137	43.297	ug/L	0.289	0	29	211555	1
[>	Tb	159		ug/L			437751	447455	1
[	Tl	205	25.259	ug/L	0.200	0	243	844972	1
[	Pb	208	26.124	ug/L	0.108	0	830	1162863	1
[	Bi	209		ug/L			369705	365326	1
[	Th	232	26.300	ug/L	0.240	0	282	1450170	1
[	U	238	26.933	ug/L	0.166	0	35	1614820	1

60%

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ71 D REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, March 30, 2010 15:55:57
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

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	Analyte	Mass	Conc. Mean		Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6			ug/L			287408	464165	1
[	Be	9	0.027		ug/L	0.005	20	5	25	14
	C	13			mg/L			6024	9331	0
	Cl	37			mg/L			3017573	3277195	0
[>	Sc	45			ug/L			274724	399865	1
[	V-1	51	8.849		ug/L	0.050	0	1520	165250	1
[	V	51	8.627		ug/L	0.042	0	8388	174370	1
[	Cr	52	1.643		ug/L	0.014	0	5986	35944	1
[	Cr	53	1.404		ug/L	0.026	1	2872	6978	2
[	Mn	55	1164.820		ug/L	19.652	1	440	33158540	1
[	Co	59	0.878		ug/L	0.009	0	54	19912	1
[>	Ge	72			ug/L			407406	397489	1
[	Ni	60	2.784		ug/L	0.056	2	87	8691	2
[	Ni	62	23.964		ug/L	0.250	1	71	11445	1
[	Cu	63	2.181		ug/L	0.014	0	210	16050	1
[	Cu	65	0.925		ug/L	0.016	1	101	3381	1
[	Zn	66	9.103		ug/L	0.066	0	205	22148	1
[	Zn	67	9.306		ug/L	0.069	0	217	4030	1
[	Zn	68	8.872		ug/L	0.100	1	6749	21858	1
[	As-1	75	8.479		ug/L	0.029	0	480	19066	1
[	As	75	7.884		ug/L	0.058	0	8965	26121	0
[	Se	82	0.606		ug/L	0.053	8	-12	115	10
[	Se	78	-1.682		ug/L	0.169	10	9091	7952	0
[	Mo	98	3.195		ug/L	0.049	1	27	22740	1
	Y	89			ug/L			305272	355736	1
	Kr	83			ug/L			263	248	3
[>	In	115		U	ug/L			454742	449041	1
[	Ag	107	0.011		ug/L	0.001	6	46	205	4
[	Cd	111	-0.086	U	ug/L	0.046	53	208	-92	170
[	Cd	114	0.014		ug/L	0.003	22	18	134	19
[	Sb	121	0.071		ug/L	0.001	2	144	1065	3
[	Sb	123	0.069		ug/L	0.003	4	121	804	4
[	Ba	135	14.734		ug/L	0.164	1	20	42761	0
[	Ba	137	14.768		ug/L	0.257	1	29	72620	1
[>	Tb	159		U	ug/L			437751	458349	2
[	Tl	205	0.005	U	ug/L	0.001	23	243	422	10
[	Pb	208	0.115		ug/L	0.001	0	830	6127	2
[	Bi	209			ug/L			369705	375741	1
[	Th	232	0.039		ug/L	0.001	3	282	2492	4
[	U	238	0.021		ug/L	0.000	1	35	1311	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ71 E REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, March 30, 2010 16:02:49
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

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	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			287408	454247	2
[	Be	9	0.033	ug/L	0.018	54	5	28	37
	C	13		mg/L			6024	11247	2
	Cl	37		mg/L			3017573	8811484	2
[>	Sc	45		ug/L			274724	395909	2
[	V-1	51	4.770	ug/L	0.037	0	1520	89231	3
[	V	51	5.853	ug/L	0.084	1	8388	121034	3
[	Cr	52	1.464	ug/L	0.051	3	5986	32659	3
[	Cr	53	4.928	ug/L	0.328	6	2872	13861	5
[	Mn	55	615.204	ug/L	13.889	2	440	17343503	3
[	Co	59	1.168	ug/L	0.018	1	54	26204	2
[>	Ge	72		ug/L			407406	390704	2
[	Ni	60	21.006	ug/L	0.212	1	87	63909	2
[	Ni	62	60.057	ug/L	3.452	5	71	28102	6
[	Cu	63	5.232	ug/L	0.181	3	210	37563	4
[	Cu	65	0.654	ug/L	0.014	2	101	2375	1
[	Zn	66	47.007	ug/L	0.244	0	205	111599	1
[	Zn	67	42.031	ug/L	0.518	1	217	17163	3
[	Zn	68	45.637	ug/L	0.542	1	6749	83691	2
[	As-1	75	1.615	ug/L	0.047	2	480	3941	2
[	As	75	V 0.473	ug/L	0.088	18	8965	9619	0
[	Se	82	3.134	ug/L	0.101	3	-12	636	5
[	Se	78	-0.879	ug/L	0.178	20	9091	8246	1
[	Mo	98	6.513	ug/L	0.078	1	27	45537	1
	Y	89		ug/L			305272	359550	2
	Kr	83		ug/L			263	383	3
[>	In	115		ug/L			454742	446217	2
[	Ag	107	V 0.014	ug/L	0.001	4	46	239	5
[	Cd	111	-0.965	ug/L	0.083	8	208	-3161	8
[	Cd	114	V 0.015	ug/L	0.001	4	18	141	5
[	Sb	121	0.201	ug/L	0.005	2	144	2746	0
[	Sb	123	0.197	ug/L	0.007	3	121	2048	1
[	Ba	135	16.660	ug/L	0.203	1	20	48040	0
[	Ba	137	16.669	ug/L	0.166	0	29	81453	1
[>	Tb	159		ug/L			437751	448797	2
[	Tl	205	V -0.002	ug/L	0.000	14	243	182	3
[	Pb	208	V 0.091	ug/L	0.002	2	830	4928	1
[	Bi	209		ug/L			369705	346786	2
[	Th	232	0.020	ug/L	0.001	6	282	1375	7
[	U	238	0.017	ug/L	0.001	3	35	1067	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QK01 B REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, March 30, 2010 16:09:37
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

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Cr

	Analyte	Mass	Conc. Mean		Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6			ug/L			287408	465332	1
[	Be	9	0.016		ug/L	0.008	52	5	19	26
	C	13			mg/L			6024	10006	0
	Cl	37			mg/L			3017573	2837670	0
[>	Sc	45			ug/L			274724	368589	1
[	V-1	51	10.086		ug/L	0.169	1	1520	173326	1
[	V	51	9.799		ug/L	0.169	1	8388	181034	1
[	Cr	52	1.470		ug/L	0.012	0	5986	30487	1
[	Cr	53	1.119		ug/L	0.033	2	2872	5910	2
[	Mn	55	465.774		ug/L	4.700	1	440	12223006	0
[	Co	59	2.502		ug/L	0.041	1	54	52185	1
[>	Ge	72			ug/L			407406	399029	1
[	Ni	60	2.078		ug/L	0.008	0	87	6535	1
[	Ni	62	25.415		ug/L	0.280	1	71	12180	0
[	Cu	63	2.098		ug/L	0.027	1	210	15503	1
[	Cu	65	0.984		ug/L	0.012	1	101	3602	0
[	Zn	66	3.041		ug/L	0.055	1	205	7561	2
[	Zn	67	4.201		ug/L	0.060	1	217	1943	2
[	Zn	68	2.809		ug/L	0.088	3	6749	11464	1
[	As-1	75	18.010		ug/L	0.213	1	480	40121	0
[	As	75	17.432		ug/L	0.256	1	8965	47340	0
[	Se	82	0.355		ug/L	0.046	12	-12	62	14
[	Se	78	-1.695		ug/L	0.204	12	9091	7976	0
[	Mo	98	4.016		ug/L	0.081	2	27	28686	0
	Y	89			ug/L			305272	361181	0
	Kr	83			ug/L			263	245	2
[>	In	115			ug/L			454742	454588	0
[	Ag	107	U	0.024	ug/L	0.001	5	46	390	4
[	Cd	111	U	0.042	ug/L	0.023	55	208	358	23
[	Cd	114		0.012	ug/L	0.001	11	18	115	10
[	Sb	121		0.105	ug/L	0.001	1	144	1527	1
[	Sb	123		0.101	ug/L	0.004	3	121	1124	3
[	Ba	135		16.740	ug/L	0.097	0	20	49186	0
[	Ba	137		16.850	ug/L	0.089	0	29	83889	0
[>	Tb	159			ug/L			437751	472569	0
[	Tl	205	U	0.005	ug/L	0.000	3	243	453	1
[	Pb	208	U	0.130	ug/L	0.002	1	830	7008	1
[	Bi	209			ug/L			369705	384612	1
[	Th	232		0.057	ug/L	0.002	3	282	3643	3
[	U	238		0.022	ug/L	0.000	0	35	1419	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QK01 C REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, March 30, 2010 16:16:22
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

rerun of all 3.31

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			287408	415579	2
[	Be	9	0.016	ug/L	0.007	43	5	17	23
	C	13		mg/L			6024	9487	2
	Cl	37		mg/L			3017573	32848950	1
[>	Sc	45		ug/L			274724	357730	1
[	V-1	51	1.659	ug/L	0.142	8	1520	29294	6
[	V	51	7.216	ug/L	0.168	2	8388	132255	0
[	Cr	52	0.629	ug/L	0.025	4	5986	17116	1
[	Cr	53	17.460	ug/L	0.342	1	2872	34860	1
[	Mn	55	1198.841	ug/L	17.282	1	440	30536161	2
[	Co	59	0.933	ug/L	0.015	1	54	18919	0
[>	Ge	72		ug/L			407406	349193	0
[	Ni	60	5.994	ug/L	0.094	1	87	16352	1
[	Ni	62	157.287	ug/L	48.706	30	71	65737	31
[	Cu	63	27.839	ug/L	7.260	26	210	178000	26
[	Cu	65	0.879	ug/L	0.047	5	101	2825	5
[	Zn	66	7.788	ug/L	0.109	1	205	16673	1
[	Zn	67	11.144	ug/L	0.452	4	217	4203	4
[	Zn	68	9.499	ug/L	0.074	0	6749	20150	0
[	As-1	75	2.969	ug/L	0.101	3	480	6134	3
[	As	75	0.402	ug/L	0.065	16	8965	8462	1
[	Se	82	6.195	ug/L	0.819	13	-12	1134	12
[	Se	78	1.645	ug/L	0.194	11	9091	8580	0
[	Mo	98	4.619	ug/L	0.040	0	27	28875	1
	Y	89		ug/L			305272	338345	0
	Kr	83		ug/L			263	1334	12
[>	In	115		ug/L			454742	422602	1
[	Ag	107	0.009	ug/L	0.001	15	46	166	10
[	Cd	111	-3.338	ug/L	0.368	11	208	-10838	11
[	Cd	114	0.012	ug/L	0.002	14	18	111	13
[	Sb	121	0.097	ug/L	0.002	1	144	1316	1
[	Sb	123	0.094	ug/L	0.004	4	121	988	2
[	Ba	135	112.477	ug/L	0.892	0	20	307103	0
[	Ba	137	111.614	ug/L	1.116	1	29	516377	0
[>	Tb	159		ug/L			437751	396375	0
[	Tl	205	-0.003	ug/L	0.000	10	243	124	8
[	Pb	208	0.046	ug/L	0.003	6	830	2572	4
[	Bi	209		ug/L			369705	276279	1
[	Th	232	0.004	ug/L	0.001	30	282	453	12
[	U	238	0.009	ug/L	0.000	4	35	503	4

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV5
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, March 30, 2010 16:23:09
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
⌈>	Li	6		ug/L			287408	379638	3
⌊	Be	9	49.625	ug/L	1.114	2	5	24352	1
	C	13		mg/L			6024	6285	0
	Cl	37		mg/L			3017573	3064580	0
⌈>	Sc	45		ug/L			274724	259405	0
|	V-1	51	49.746	ug/L	0.657	1	1520	596034	0
|	V	51	50.295	ug/L	0.570	1	8388	621266	0
|	Cr	52	49.417	ug/L	0.612	1	5986	537012	0
|	Cr	53	51.093	ug/L	0.495	0	2872	68751	0
|	Mn	55	48.544	ug/L	0.224	0	440	897007	0
⌊	Co	59	46.788	ug/L	0.303	0	54	685837	1
⌈>	Ge	72		ug/L			407406	356326	0
|	Ni	60	52.862	ug/L	0.485	0	87	146570	0
|	Ni	62	84.878	ug/L	2.719	3	71	36178	2
|	Cu	63	53.449	ug/L	0.550	1	210	348200	0
|	Cu	65	51.111	ug/L	0.302	0	101	162608	0
|	Zn	66	52.154	ug/L	0.149	0	205	112912	0
|	Zn	67	52.171	ug/L	0.202	0	217	19382	0
|	Zn	68	50.865	ug/L	0.187	0	6749	84398	0
|	As-1	75	50.576	ug/L	0.173	0	480	99861	0
|	As	75	50.211	ug/L	0.065	0	8965	107039	0
|	Se	82	52.895	ug/L	0.673	1	-12	9968	1
|	Se	78	51.558	ug/L	0.213	0	9091	33146	0
⌊	Mo	98	52.294	ug/L	0.037	0	27	333310	0
	Y	89		ug/L			305272	280932	1
	Kr	83		ug/L			263	266	3
⌈>	In	115		ug/L			454742	400499	0
|	Ag	107	51.670	ug/L	0.348	0	46	658813	0
|	Cd	111	51.957	ug/L	0.135	0	208	162917	0
|	Cd	114	52.022	ug/L	0.234	0	18	385929	0
|	Sb	121	49.809	ug/L	0.182	0	144	578337	0
|	Sb	123	50.051	ug/L	0.566	1	121	440200	0
|	Ba	135	49.013	ug/L	0.579	1	20	126843	1
⌊	Ba	137	48.917	ug/L	0.243	0	29	214505	0
⌈>	Tb	159		ug/L			437751	409406	0
|	Tl	205	48.508	ug/L	0.777	1	243	1484275	0
|	Pb	208	50.105	ug/L	0.235	0	830	2039886	0
|	Bi	209		ug/L			369705	346505	0
|	Th	232	53.589	ug/L	0.481	0	282	2703040	0
⌊	U	238	53.965	ug/L	0.890	1	35	2959992	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB5
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, March 30, 2010 16:30:37
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			287408	350113	1
[	Be	9	-0.007	ug/L	0.005	64	5	3	57
	C	13		mg/L			6024	6204	1
	Cl	37		mg/L			3017573	3049202	0
[>	Sc	45		ug/L			274724	270726	0
[	V-1	51	-0.007	ug/L	0.019	271	1520	1409	17
[	V	51	0.375	ug/L	0.027	7	8388	13036	2
[	Cr	52	-0.012	ug/L	0.008	62	5986	5760	2
[	Cr	53	1.141	ug/L	0.064	5	2872	4368	0
[	Mn	55	0.035	ug/L	0.006	16	440	1117	9
[	Co	59	-0.001	ug/L	0.001	59	54	37	26
[>	Ge	72		ug/L			407406	374420	0
[	Ni	60	-0.002	ug/L	0.004	236	87	75	14
[	Ni	62	19.422	ug/L	1.061	5	71	8748	4
[	Cu	63	0.827	ug/L	0.026	3	210	5847	2
[	Cu	65	0.021	ug/L	0.005	23	101	163	9
[	Zn	66	0.026	ug/L	0.015	56	205	247	13
[	Zn	67	0.406	ug/L	0.048	11	217	356	4
[	Zn	68	-0.265	ug/L	0.066	24	6749	5773	2
[	As-1	75	0.053	ug/L	0.009	17	480	550	4
[	As	75	-0.097	ug/L	0.030	31	8965	8038	1
[	Se	82	0.107	ug/L	0.057	53	-12	9	113
[	Se	78	-0.470	ug/L	0.062	13	9091	8114	0
[	Mo	98	0.001	ug/L	0.002	111	27	35	30
	Y	89		ug/L			305272	294255	0
	Kr	83		ug/L			263	247	0
[>	In	115		ug/L			454742	427619	0
[	Ag	107	0.002	ug/L	0.001	29	46	71	10
[	Cd	111	0.002	ug/L	0.005	220	208	203	7
[	Cd	114	-0.000	ug/L	0.000	195	18	15	21
[	Sb	121	0.032	ug/L	0.008	23	144	532	16
[	Sb	123	0.030	ug/L	0.006	20	121	397	14
[	Ba	135	0.005	ug/L	0.002	44	20	33	18
[	Ba	137	0.005	ug/L	0.002	35	29	51	17
[>	Tb	159		ug/L			437751	419457	0
[	Tl	205	0.010	ug/L	0.002	14	243	562	8
[	Pb	208	0.012	ug/L	0.004	30	830	1297	11
[	Bi	209		ug/L			369705	362201	0
[	Th	232	0.006	ug/L	0.001	14	282	586	7
[	U	238	0.001	ug/L	0.000	40	35	71	21

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QK01 D REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, March 30, 2010 16:38:03
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

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Cr

	Analyte	Mass	Conc. Mean		Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6			ug/L			287408	386560	1
[	Be	9	0.029		ug/L	0.011	37	5	22	22
	C	13			mg/L			6024	13268	1
	Cl	37			mg/L			3017573	6197957	1
[>	Sc	45			ug/L			274724	336103	1
[	V-1	51	8.968		ug/L	0.140	1	1520	~~140742~~	0
[	V	51	9.801		ug/L	0.151	1	8388	165109	0
[	Cr	52	2.152		ug/L	0.036	1	5986	37301	1
[	Cr	53	5.072		ug/L	0.075	1	2872	12007	0
[	Mn	55	394.828		ug/L	2.657	0	440	9448672	0
[	Co	59	1.629		ug/L	0.018	1	54	31002	1
[>	Ge	72			ug/L			407406	349073	1
[	Ni	60	2.357		ug/L	0.020	0	87	6473	0
[	Ni	62	41.565		ug/L	5.472	13	71	17381	12
[	Cu	63	4.514		ug/L	0.153	3	210	28971	2
[	Cu	65	1.361		ug/L	0.010	0	101	4327	1
[	Zn	66	6.216		ug/L	0.111	1	205	13337	0
[	Zn	67	7.610		ug/L	0.069	0	217	2928	2
[	Zn	68	6.500		ug/L	0.155	2	6749	15608	1
[	As-1	75	11.671		ug/L	0.109	0	480	22890	0
[	As	75	11.475		ug/L	0.147	1	8965	29890	1
[	Se	82	0.890		ug/L	0.077	8	-12	153	8
[	Se	78	0.735		ug/L	0.318	43	9091	8142	2
[	Mo	98	6.311		ug/L	0.129	2	27	39422	1
	Y	89			ug/L			305272	321129	0
	Kr	83			ug/L			263	306	3
[>	In	115			ug/L			454742	396426	1
[	Ag	107	V	0.015	ug/L	0.000	3	46	226	4
[	Cd	111		-0.314	ug/L	0.060	19	208	-790	23
[	Cd	114	V	0.014	ug/L	0.001	9	18	115	8
[	Sb	121		0.229	ug/L	0.008	3	144	2759	4
[	Sb	123		0.225	ug/L	0.016	7	121	2065	8
[	Ba	135		28.759	ug/L	0.197	0	20	73673	1
[	Ba	137		28.603	ug/L	0.113	0	29	124158	1
[>	Tb	159			ug/L			437751	399526	0
[	Tl	205	V	0.000	ug/L	0.000	48	243	235	2
[	Pb	208	V	0.214	ug/L	0.007	3	830	9270	2
[	Bi	209			ug/L			369705	318172	0
[	Th	232		0.053	ug/L	0.004	6	282	2888	6
[	U	238		0.041	ug/L	0.002	4	35	2205	3

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QK01 E REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, March 30, 2010 16:44:49
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

ren
cc

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			287408	394052	1
[	Be	9	0.082	ug/L	0.014	16	5	49	15
	C	13		mg/L			6024	11804	0
	Cl	37		mg/L			3017573	5539425	0
[>	Sc	45		ug/L			274724	336014	0
[	V-1	51	11.439	ug/L	0.141	1	1520	178968	0
[	V	51	12.079	ug/L	0.126	1	8388	201060	0
[	Cr	52	3.389	ug/L	0.056	1	5986	54524	0
[	Cr	53	5.801	ug/L	0.041	0	2872	13226	1
[	Mn	55	334.505	ug/L	5.654	1	440	8003756	2
[	Co	59	1.045	ug/L	0.012	1	54	19910	1
[>	Ge	72		ug/L			407406	335955	0
[	Ni	60	6.336	ug/L	0.121	1	87	16625	1
[	Ni	62	67.512	ug/L	7.456	11	71	27129	10
[	Cu	63	5.248	ug/L	0.403	7	210	32377	6
[	Cu	65	0.636	ug/L	0.022	3	101	1992	3
[	Zn	66	25.325	ug/L	0.024	0	205	51780	0
[	Zn	67	23.975	ug/L	0.440	1	217	8495	2
[	Zn	68	24.575	ug/L	0.240	0	6749	41324	1
[	As-1	75	0.992	ug/L	0.066	6	480	2234	4
[	As	75	0.561	ug/L	0.087	15	8965	8437	0
[	Se	82	1.742	ug/L	0.174	9	-12	299	9
[	Se	78	0.483	ug/L	0.227	46	9091	7718	0
[	Mo	98	3.184	ug/L	0.045	1	27	19155	1
	Y	89		ug/L			305272	339073	1
	Kr	83		ug/L			263	306	0
[>	In	115		ug/L			454742	384127	1
[	Ag	107	0.029	ug/L	0.002	7	46	389	7
[	Cd	111	-0.274	ug/L	0.014	5	208	-648	8
[	Cd	114	0.012	ug/L	0.001	5	18	100	6
[	Sb	121	0.119	ug/L	0.001	0	144	1450	2
[	Sb	123	0.117	ug/L	0.003	2	121	1089	0
[	Ba	135	9.824	ug/L	0.018	0	20	24399	1
[	Ba	137	9.862	ug/L	0.145	1	29	41493	1
[>	Tb	159		ug/L			437751	397137	1
[	Tl	205	0.000	ug/L	0.000	100	243	225	1
[	Pb	208	0.158	ug/L	0.006	3	830	6987	2
[	Bi	209		ug/L			369705	314985	1
[	Th	232	0.087	ug/L	0.004	5	282	4533	3
[	U	238	0.040	ug/L	0.001	1	35	2158	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QK15 B REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, March 30, 2010 16:51:36
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

perm
QC

	Analyte	Mass	Conc. Mean		Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
⌈>	Li	6			ug/L			287408	416146	1
⌊	Be	9	0.011		ug/L	0.006	57	5	14	22
	C	13			mg/L			6024	9863	0
	Cl	37			mg/L			3017573	2811351	1
⌈>	Sc	45			ug/L			274724	346435	1
|	V-1	51	3.069		ug/L	0.010	0	1520	~~50906~~	2
|	V	51	3.031		ug/L	0.004	0	8388	59942	1
|	Cr	52	0.992		ug/L	0.019	1	5986	21795	3
|	Cr	53	1.002		ug/L	0.018	1	2872	5352	1
|	Mn	55	296.252		ug/L	2.334	0	440	7308383	2
⌊	Co	59	1.693		ug/L	0.008	0	54	33203	1
⌈>	Ge	72			ug/L			407406	372606	1
|	Ni	60	4.096		ug/L	0.075	1	87	11952	3
|	Ni	62	46.958		ug/L	0.299	0	71	20960	1
|	Cu	63	2.554		ug/L	0.041	1	210	17583	1
|	Cu	65	0.847		ug/L	0.021	2	101	2908	0
|	Zn	66	5.853		ug/L	0.033	0	205	13417	1
|	Zn	67	6.018		ug/L	0.066	1	217	2513	1
|	Zn	68	5.869		ug/L	0.206	3	6749	15643	2
|	As-1	75	5.911		ug/L	0.057	0	480	12593	2
|	As	75	5.535		ug/L	0.104	1	8965	19631	1
|	Se	82	0.276		ug/L	0.081	29	-12	43	38
|	Se	78	-1.087		ug/L	0.289	26	9091	7757	0
⌊	Mo	98	4.149		ug/L	0.015	0	27	27678	1
	Y	89			ug/L			305272	320167	1
	Kr	83			ug/L			263	250	2
⌈>	In	115			ug/L			454742	424781	2
|	Ag	107	U	0.005	ug/L	0.001	27	46	107	13
|	Cd	111	U	0.007	ug/L	0.018	243	208	219	28
|	Cd	114		0.016	ug/L	0.003	16	18	139	13
|	Sb	121		0.102	ug/L	0.002	1	144	1395	1
|	Sb	123		0.099	ug/L	0.003	3	121	1037	0
|	Ba	135		11.926	ug/L	0.178	1	20	32742	1
⌊	Ba	137		12.105	ug/L	0.252	2	29	56297	0
⌈>	Tb	159			ug/L			437751	427212	2
|	Tl	205	U	0.008	ug/L	0.002	20	243	495	8
|	Pb	208	U	0.165	ug/L	0.004	2	830	7801	1
|	Bi	209			ug/L			369705	353734	1
|	Th	232		0.027	ug/L	0.001	4	282	1701	3
⌊	U	238		0.046	ug/L	0.001	1	35	2641	3

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QK15 C REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, March 30, 2010 16:59:23
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

ren
Cr

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
⌈>	Li	6		ug/L			287408	442397	1
⌊	Be	9	0.024	ug/L	0.006	22	5	22	13
	C	13		mg/L			6024	9230	1
	Cl	37		mg/L			3017573	2734751	1
⌈>	Sc	45		ug/L			274724	330559	0
|	V-1	51	14.226	ug/L	0.130	0	1520	218518	1
|	V	51	13.925	ug/L	0.125	0	8388	226500	1
|	Cr	52	1.800	ug/L	0.017	0	5986	31870	1
|	Cr	53	1.638	ug/L	0.015	0	2872	6153	0
|	Mn	55	145.954	ug/L	0.714	0	440	3435718	0
⌊	Co	59	1.590	ug/L	0.013	0	54	29768	1
⌈>	Ge	72		ug/L			407406	362069	0
|	Ni	60	1.913	ug/L	0.038	1	87	5465	1
|	Ni	62	55.565	ug/L	2.048	3	71	24096	4
|	Cu	63	5.689	ug/L	0.021	0	210	37823	0
|	Cu	65	3.922	ug/L	0.042	1	101	12761	0
|	Zn	66	6.259	ug/L	0.166	2	205	13928	2
|	Zn	67	6.981	ug/L	0.122	1	217	2802	1
|	Zn	68	5.818	ug/L	0.151	2	6749	15119	0
|	As-1	75	3.872	ug/L	0.088	2	480	8162	1
|	As	75	3.656	ug/L	0.126	3	8965	15305	0
|	Se	82	0.270	ug/L	0.037	13	-12	40	16
|	Se	78	-0.476	ug/L	0.195	40	9091	7842	0
⌊	Mo	98	7.874	ug/L	0.149	1	27	51012	1
	Y	89		ug/L			305272	335766	0
	Kr	83		ug/L			263	245	1
⌈>	In	115		ug/L			454742	413807	0
|	Ag	107	0.018	ug/L	0.002	10	46	278	8
|	Cd	111	0.042	ug/L	0.010	23	208	326	10
|	Cd	114	0.019	ug/L	0.001	5	18	159	5
|	Sb	121	0.225	ug/L	0.003	1	144	2833	1
|	Sb	123	0.221	ug/L	0.005	2	121	2117	2
|	Ba	135	6.731	ug/L	0.117	1	20	18013	2
⌊	Ba	137	6.795	ug/L	0.088	1	29	30811	0
⌈>	Tb	159		ug/L			437751	427818	0
|	Tl	205	0.010	ug/L	0.001	14	243	562	7
|	Pb	208	0.473	ug/L	0.011	2	830	20911	2
|	Bi	209		ug/L			369705	354719	0
|	Th	232	0.131	ug/L	0.002	1	282	7204	0
⌊	U	238	0.032	ug/L	0.002	5	35	1851	4

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QK15 D REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, March 30, 2010 17:07:11
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

rerun Cr

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			287408	450722	1
[	Be	9	0.027	ug/L	0.011	41	5	25	26
	C	13		mg/L			6024	9134	1
	Cl	37		mg/L			3017573	2832601	0
[>	Sc	45		ug/L			274724	348557	2
[	V-1	51	16.208	ug/L	0.164	1	1520	262257	2
[	V	51	15.814	ug/L	0.163	1	8388	269796	2
[	Cr	52	2.900	ug/L	0.030	1	5986	49503	2
[	Cr	53	2.511	ug/L	0.060	2	2872	8004	1
[	Mn	55	530.511	ug/L	2.867	0	440	13166797	2
[	Co	59	1.902	ug/L	0.007	0	54	37524	2
[>	Ge	72		ug/L			407406	371966	2
[	Ni	60	1.915	ug/L	0.026	1	87	5621	3
[	Ni	62	36.857	ug/L	0.861	2	71	16433	0
[	Cu	63	2.493	ug/L	0.054	2	210	17128	0
[	Cu	65	0.737	ug/L	0.018	2	101	2540	4
[	Zn	66	4.324	ug/L	0.097	2	205	9944	3
[	Zn	67	5.610	ug/L	0.052	0	217	2352	1
[	Zn	68	4.189	ug/L	0.143	3	6749	12907	1
[	As-1	75	5.233	ug/L	0.068	1	480	11177	1
[	As	75	4.799	ug/L	0.157	3	8965	18078	0
[	Se	82	0.325	ug/L	0.080	24	-12	53	31
[	Se	78	-1.282	ug/L	0.345	26	9091	7644	0
[	Mo	98	2.135	ug/L	0.047	2	27	14225	0
	Y	89		ug/L			305272	346633	1
	Kr	83		ug/L			263	249	1
[>	In	115		ug/L			454742	423465	0
[	Ag	107	U 0.019	ug/L	0.001	4	46	305	4
[	Cd	111	U -0.025	ug/L	0.014	54	208	111	41
[	Cd	114	0.005	ug/L	0.002	30	18	60	21
[	Sb	121	0.209	ug/L	0.003	1	144	2694	1
[	Sb	123	0.199	ug/L	0.003	1	121	1962	0
[	Ba	135	9.644	ug/L	0.056	0	20	26404	0
[	Ba	137	9.570	ug/L	0.077	0	29	44391	0
[>	Tb	159		ug/L			437751	436581	1
[	Tl	205	U 0.003	ug/L	0.000	14	243	345	3
[	Pb	208	U 0.068	ug/L	0.003	4	830	3780	2
[	Bi	209		ug/L			369705	355914	0
[	Th	232	0.069	ug/L	0.001	1	282	3985	0
[	U	238	0.021	ug/L	0.000	2	35	1253	2

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QK15 E REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, March 30, 2010 17:13:59
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

rerun Cr

	Analyte	Mass		Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6			ug/L			287408	472443	3
[	Be	9		0.005	ug/L	0.005	96	5	12	20
	C	13			mg/L			6024	9124	0
	Cl	37			mg/L			3017573	2727071	0
[>	Sc	45			ug/L			274724	345788	2
[	V-1	51		1.555	ug/L	0.017	1	1520	26693	2
[	V	51		1.386	ug/L	0.023	1	8388	33089	1
[	Cr	52		0.280	ug/L	0.017	6	5986	11548	3
[	Cr	53		-0.154	ug/L	0.023	14	2872	3350	1
[	Mn	55		272.192	ug/L	2.477	0	440	6701214	1
[	Co	59		0.603	ug/L	0.014	2	54	11850	3
[>	Ge	72			ug/L			407406	371527	1
[	Ni	60		4.721	ug/L	0.076	1	87	13720	1
[	Ni	62		37.020	ug/L	1.445	3	71	16484	2
[	Cu	63		1.733	ug/L	0.040	2	210	11955	1
[	Cu	65	J	0.332	ug/L	0.012	3	101	1192	2
[	Zn	66		2.668	ug/L	0.040	1	205	6199	2
[	Zn	67		2.782	ug/L	0.073	2	217	1264	1
[	Zn	68		2.425	ug/L	0.108	4	6749	10054	1
[	As-1	75		5.626	ug/L	0.049	0	480	11971	1
[	As	75		5.220	ug/L	0.130	2	8965	18924	0
[	Se	82		0.187	ug/L	0.049	26	-12	25	39
[	Se	78		-1.329	ug/L	0.373	28	9091	7611	0
[	Mo	98		1.677	ug/L	0.006	0	27	11170	1
	Y	89			ug/L			305272	322804	2
	Kr	83			ug/L			263	243	3
[>	In	115			ug/L			454742	426048	2
[	Ag	107	U	0.003	ug/L	0.000	15	46	82	9
[	Cd	111	U	-0.031	ug/L	0.019	62	208	93	70
[	Cd	114		0.006	ug/L	0.000	7	18	67	6
[	Sb	121		0.043	ug/L	0.004	8	144	662	4
[	Sb	123		0.040	ug/L	0.001	3	121	485	1
[	Ba	135		10.396	ug/L	0.112	1	20	28631	1
[	Ba	137		10.616	ug/L	0.169	1	29	49548	3
[>	Tb	159			ug/L			437751	447095	2
[	Tl	205	U	0.004	ug/L	0.000	10	243	391	5
[	Pb	208	J	0.038	ug/L	0.001	3	830	2553	3
[	Bi	209			ug/L			369705	363713	2
[	Th	232		0.004	ug/L	0.000	12	282	483	6
[	U	238		0.012	ug/L	0.000	4	35	730	5

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QK15 F REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, March 30, 2010 17:20:47
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

ren
CC

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			287408	490822	1
[	Be	9	-0.001	ug/L	0.003	560	5	9	19
	C	13		mg/L			6024	9215	0
	Cl	37		mg/L			3017573	2826186	0
[>	Sc	45		ug/L			274724	352973	0
[	V-1	51	2.372	ug/L	0.015	0	1520	40528	1
[	V	51	2.189	ug/L	0.020	0	8388	47107	1
[	Cr	52	0.167	ug/L	0.015	9	5986	10132	1
[	Cr	53	-0.251	ug/L	0.022	8	2872	3248	1
[	Mn	55	267.820	ug/L	2.334	0	440	6731229	0
[	Co	59	0.860	ug/L	0.008	0	54	17220	0
[>	Ge	72		ug/L			407406	377641	0
[	Ni	60	2.975	ug/L	0.068	2	87	8817	2
[	Ni	62	40.912	ug/L	1.583	3	71	18519	3
[	Cu	63	2.611	ug/L	0.082	3	210	18211	3
[	Cu	65	0.865	ug/L	0.011	1	101	3009	1
[	Zn	66	1.840	ug/L	0.007	0	205	4404	0
[	Zn	67	1.908	ug/L	0.109	5	217	945	4
[	Zn	68	1.513	ug/L	0.085	5	6749	8731	1
[	As-1	75	9.907	ug/L	0.017	0	480	21089	0
[	As	75	9.365	ug/L	0.007	0	8965	27919	0
[	Se	82	0.326	ug/L	0.103	31	-12	53	37
[	Se	78	-1.700	ug/L	0.103	6	9091	7546	0
[	Mo	98	1.970	ug/L	0.024	1	27	13330	1
	Y	89		ug/L			305272	325998	1
	Kr	83		ug/L			263	238	0
[>	In	115		ug/L			454742	437020	1
[	Ag	107	V 0.002	ug/L	0.001	44	46	73	17
[	Cd	111	V -0.057	ug/L	0.006	10	208	5	347
[	Cd	114	0.010	ug/L	0.000	2	18	96	3
[	Sb	121	0.065	ug/L	0.000	0	144	960	1
[	Sb	123	0.059	ug/L	0.005	7	121	683	6
[	Ba	135	6.271	ug/L	0.073	1	20	17726	1
[	Ba	137	6.278	ug/L	0.099	1	29	30066	2
[>	Tb	159		ug/L			437751	461372	1
[	Tl	205	V 0.016	ug/L	0.000	2	243	814	2
[	Pb	208	V 0.093	ug/L	0.003	3	830	5153	4
[	Bi	209		ug/L			369705	373666	1
[	Th	232	0.002	ug/L	0.000	9	282	399	2
[	U	238	0.032	ug/L	0.001	2	35	2022	2

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QK15 G REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, March 30, 2010 17:27:36
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

ren
Cr

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			287408	488851	3
[	Be	9	-0.004	ug/L	0.006	148	5	7	44
	C	13		mg/L			6024	9125	0
	Cl	37		mg/L			3017573	2802054	1
[>	Sc	45		ug/L			274724	346439	3
[	V-1	51	2.362	ug/L	0.025	1	1520	39613	2
[	V	51	2.164	ug/L	0.039	1	8388	45803	2
[	Cr	52	0.166	ug/L	0.017	10	5986	9930	1
[	Cr	53	-0.300	ug/L	0.060	20	2872	3101	0
[	Mn	55	274.989	ug/L	4.304	1	440	6785748	4
[	Co	59	0.865	ug/L	0.009	1	54	16998	4
[>	Ge	72		ug/L			407406	369881	3
[	Ni	60	2.869	ug/L	0.011	0	87	8332	4
[	Ni	62	42.543	ug/L	2.296	5	71	18833	1
[	Cu	63	2.616	ug/L	0.050	1	210	17865	1
[	Cu	65	0.828	ug/L	0.015	1	101	2824	4
[	Zn	66	2.231	ug/L	0.027	1	205	5192	2
[	Zn	67	2.281	ug/L	0.068	2	217	1067	2
[	Zn	68	1.920	ug/L	0.146	7	6749	9197	2
[	As-1	75	10.316	ug/L	0.114	1	480	21487	3
[	As	75	9.799	ug/L	0.192	1	8965	28225	2
[	Se	82	0.387	ug/L	0.040	10	-12	64	12
[	Se	78	-1.540	ug/L	0.471	30	9091	7467	0
[	Mo	98	1.960	ug/L	0.046	2	27	12984	2
	Y	89		ug/L			305272	321134	3
	Kr	83		ug/L			263	232	2
[>	In	115		ug/L			454742	431200	3
[	Ag	107	U 0.003	ug/L	0.001	33	46	84	19
[	Cd	111	U -0.081	ug/L	0.015	17	208	-74	63
[	Cd	114	0.010	ug/L	0.002	16	18	95	16
[	Sb	121	0.061	ug/L	0.003	5	144	892	2
[	Sb	123	0.055	ug/L	0.004	7	121	633	7
[	Ba	135	6.534	ug/L	0.088	1	20	18227	4
[	Ba	137	6.498	ug/L	0.076	1	29	30708	4
[>	Tb	159		ug/L			437751	453239	2
[	Tl	205	U 0.016	ug/L	0.001	3	243	788	1
[	Pb	208	U 0.049	ug/L	0.001	1	830	3071	4
[	Bi	209		ug/L			369705	367498	2
[	Th	232	0.001	ug/L	0.000	16	282	354	5
[	U	238	0.033	ug/L	0.001	3	35	2026	4

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QK15 H REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, March 30, 2010 17:34:26
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

ren
CC

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			287408	475919	7
[	Be	9	0.021	ug/L	0.010	48	5	22	30
	C	13		mg/L			6024	9857	2
	Cl	37		mg/L			3017573	2749024	3
[>	Sc	45		ug/L			274724	330529 ✓	9
[	V-1	51	19.741	ug/L	0.431	2	1520	302068	7
[	V	51	19.227	ug/L	0.464	2	8388	308400	7
[	Cr	52	2.288	ug/L	0.034	1	5986	38519	8
[	Cr	53	1.784	ug/L	0.167	9	2872	6377	5
[	Mn	55	163.647	ug/L	1.522	0	440	3849483	8
[	Co	59	1.081	ug/L	0.022	2	54	20225	7
[>	Ge	72		ug/L			407406	356871	7
[	Ni	60	2.780	ug/L	0.079	2	87	7800	9
[	Ni	62	43.509	ug/L	3.110	7	71	18543	0
[	Cu	63	4.025	ug/L	0.073	1	210	26425	6
[	Cu	65	2.028	ug/L	0.074	3	101	6558	10
[	Zn	66	4.812	ug/L	0.055	1	205	10602	8
[	Zn	67	6.006	ug/L	0.245	4	217	2402	7
[	Zn	68	4.425	ug/L	0.165	3	6749	12741	5
[	As-1	75	2.331	ug/L	0.039	1	480	5012	7
[	As	75	1.925	ug/L	0.220	11	8965	11642	3
[	Se	82	0.622	ug/L	0.112	18	-12	107	25
[	Se	78	-0.933	ug/L	0.967	103	9091	7484	0
[	Mo	98	3.447	ug/L	0.067	1	27	22043	8
	Y	89		ug/L			305272	339900	6
	Kr	83		ug/L			263	238	2
[>	In	115		ug/L			454742	412614	8
[	Ag	107	0.015	ug/L	0.002	10	46	235	0
[	Cd	111	-0.067	ug/L	0.002	2	208	-26	25
[	Cd	114	0.009	ug/L	0.001	7	18	85	5
[	Sb	121	0.124	ug/L	0.002	1	144	1616	7
[	Sb	123	0.126	ug/L	0.005	3	121	1247	5
[	Ba	135	9.693	ug/L	0.113	1	20	25859	8
[	Ba	137	9.824	ug/L	0.219	2	29	44368	7
[>	Tb	159		ug/L			437751	439597	7
[	Tl	205	0.009	ug/L	0.001	8	243	552	4
[	Pb	208	0.081	ug/L	0.002	2	830	4379	8
[	Bi	209		ug/L			369705	354139	7
[	Th	232	0.054	ug/L	0.001	2	282	3215	8
[	U	238	0.076	ug/L	0.001	1	35	4509	8

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QK15 I REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, March 30, 2010 17:41:15
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

	Analyte	Mass	Conc. Mean		Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6			ug/L			287408	456448	5
[	Be	9	0.120		ug/L	0.018	15	5	79	9
	C	13			mg/L			6024	11738	2
	Cl	37			mg/L			3017573	3197628	1
[>	Sc	45			ug/L			274724	300677	4
[	V-1	51	25.374		ug/L	0.116	0	1520	353185	4
[	V	51	25.046		ug/L	0.101	0	8388	363198	4
[	Cr	52	6.319		ug/L	0.107	1	5986	85320	4
[	Cr	53	6.473		ug/L	0.030	0	2872	12843	4
[	Mn	55	113.185		ug/L	2.457	2	440	2422583	3
[	Co	59	1.837		ug/L	0.006	0	54	31267	4
[>	Ge	72			ug/L			407406	324233	2
[	Ni	60	4.045		ug/L	0.131	3	87	10273	5
[	Ni	62	133.501		ug/L	9.856	7	71	51815	9
[	Cu	63	14.345		ug/L	0.206	1	210	85180	3
[	Cu	65	9.095		ug/L	0.170	1	101	26399	3
[	Zn	66	5.703		ug/L	0.170	2	205	11385	5
[	Zn	67	7.548		ug/L	0.236	3	217	2698	2
[	Zn	68	4.756		ug/L	0.187	3	6749	12046	1
[	As-1	75	2.442		ug/L	0.017	0	480	4750	1
[	As	75	2.449		ug/L	0.079	3	8965	11536	1
[	Se	82	1.893		ug/L	0.047	2	-12	315	1
[	Se	78	2.184		ug/L	0.327	14	9091	8204	0
[	Mo	98	28.899		ug/L	0.111	0	27	167624	2
	Y	89			ug/L			305272	412333	2
	Kr	83			ug/L			263	253	3
[>	In	115			ug/L			454742	376648	2
[	Ag	107	U	0.054	ug/L	0.002	4	46	690	5
[	Cd	111	U	0.001	ug/L	0.035	3445	208	175	57
[	Cd	114		0.057	ug/L	0.005	8	18	410	5
[	Sb	121		0.245	ug/L	0.006	2	144	2796	2
[	Sb	123		0.244	ug/L	0.005	1	121	2118	2
[	Ba	135	23.991		ug/L	0.239	0	20	58407	3
[	Ba	137	23.948		ug/L	0.293	1	29	98789	3
[>	Tb	159			ug/L			437751	406098	3
[	Tl	205	U	0.006	ug/L	0.001	20	243	410	7
[	Pb	208	1.036		ug/L	0.004	0	830	42604	2
[	Bi	209			ug/L			369705	310791	2
[	Th	232	0.475		ug/L	0.005	1	282	24006	2
[	U	238	0.448		ug/L	0.004	0	35	24420	2

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV6
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, March 30, 2010 17:48:05
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
>	Li	6		ug/L			287408	466957	0
	Be	9	46.162	ug/L	0.498	1	5	27878	0
	C	13		mg/L			6024	6260	0
	Cl	37		mg/L			3017573	2530561	1
>	Sc	45		ug/L			274724	235472	0
	V-1	51	48.765	ug/L	0.556	1	1520	530425	1
	V	51	48.561	ug/L	0.225	0	8388	544768	0
	Cr	52	48.036	ug/L	0.500	1	5986	474004	1
	Cr	53	47.461	ug/L	0.590	1	2872	58149	1
	Mn	55	48.120	ug/L	0.431	0	440	807119	0
	Co	59	45.754	ug/L	0.069	0	54	608806	1
>	Ge	72		ug/L			407406	318291	0
	Ni	60	51.002	ug/L	0.423	0	87	126320	0
	Ni	62	75.303	ug/L	3.196	4	71	28683	4
	Cu	63	51.483	ug/L	0.421	0	210	299605	1
	Cu	65	49.925	ug/L	0.549	1	101	141877	0
	Zn	66	51.331	ug/L	0.548	1	205	99268	0
	Zn	67	49.299	ug/L	0.233	0	217	16369	0
	Zn	68	50.022	ug/L	0.317	0	6749	74227	0
	As-1	75	50.476	ug/L	0.140	0	480	89027	0
	As	75	49.889	ug/L	0.267	0	8965	95046	0
	Se	82	54.483	ug/L	0.373	0	-12	9172	1
	Se	78	52.159	ug/L	0.233	0	9091	29870	0
	Mo	98	53.694	ug/L	0.302	0	27	305696	0
	Y	89		ug/L			305272	263289	1
	Kr	83		ug/L			263	227	6
>	In	115		ug/L			454742	363950	1
	Ag	107	51.840	ug/L	0.570	1	46	600641	1
	Cd	111	51.726	ug/L	0.321	0	208	147386	0
	Cd	114	51.779	ug/L	0.310	0	18	349050	0
	Sb	121	50.274	ug/L	0.627	1	144	530420	0
	Sb	123	49.429	ug/L	0.801	1	121	395015	0
	Ba	135	49.585	ug/L	0.412	0	20	116605	0
	Ba	137	50.084	ug/L	0.668	1	29	199563	0
>	Tb	159		ug/L			437751	394851	1
	Tl	205	47.460	ug/L	0.921	1	243	1400526	1
	Pb	208	49.877	ug/L	0.641	1	830	1958227	0
	Bi	209		ug/L			369705	327496	0
	Th	232	53.157	ug/L	0.413	0	282	2585923	1
	U	238	54.837	ug/L	0.837	1	35	2900716	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB6
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, March 30, 2010 17:55:33
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			287408	460977	1
[	Be	9	-0.009	ug/L	0.002	21	5	3	33
	C	13		mg/L			6024	6275	2
	Cl	37		mg/L			3017573	2552683	0
[>	Sc	45		ug/L			274724	233931	0
[	V-1	51	0.011	ug/L	0.020	190	1520	1411	16
[	V	51	-0.164	ug/L	0.002	1	8388	5337	1
[	Cr	52	-0.061	ug/L	0.012	19	5986	4501	2
[	Cr	53	-0.585	ug/L	0.055	9	2872	1764	2
[	Mn	55	0.011	ug/L	0.001	10	440	560	3
[	Co	59	0.000	ug/L	0.000	125	54	50	9
[>	Ge	72		ug/L			407406	315778	1
[	Ni	60	-0.002	ug/L	0.002	96	87	62	6
[	Ni	62	17.101	ug/L	0.411	2	71	6502	0
[	Cu	63	0.524	ug/L	0.012	2	210	3185	0
[	Cu	65	0.031	ug/L	0.002	5	101	167	2
[	Zn	66	0.037	ug/L	0.004	9	205	229	4
[	Zn	67	0.032	ug/L	0.081	253	217	178	13
[	Zn	68	-0.389	ug/L	0.089	22	6749	4697	0
[	As-1	75	0.044	ug/L	0.006	13	480	449	4
[	As	75	-0.083	ug/L	0.067	80	8965	6803	1
[	Se	82	0.058	ug/L	0.041	69	-12	0	2089
[	Se	78	-0.392	ug/L	0.274	69	9091	6876	1
[	Mo	98	0.012	ug/L	0.002	13	27	86	11
	Y	89		ug/L			305272	262324	2
	Kr	83		ug/L			263	214	2
[>	In	115		ug/L			454742	367114	1
[	Ag	107	0.007	ug/L	0.002	28	46	120	20
[	Cd	111	-0.001	ug/L	0.005	515	208	165	7
[	Cd	114	0.002	ug/L	0.001	42	18	26	16
[	Sb	121	0.034	ug/L	0.007	19	144	480	16
[	Sb	123	0.037	ug/L	0.006	16	121	393	14
[	Ba	135	0.009	ug/L	0.002	19	20	37	12
[	Ba	137	0.008	ug/L	0.001	17	29	55	9
[>	Tb	159		ug/L			437751	390167	1
[	Tl	205	0.009	ug/L	0.002	21	243	466	12
[	Pb	208	0.009	ug/L	0.001	12	830	1069	4
[	Bi	209		ug/L			369705	329765	0
[	Th	232	0.011	ug/L	0.000	3	282	796	1
[	U	238	0.002	ug/L	0.000	15	35	142	12

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QK39 MB1 REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, March 30, 2010 18:03:01
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

	Analyte	Mass	Conc. Mean		Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6			ug/L			287408	480623	1
[	Be	9	-0.008		ug/L	0.006	70	5	4	78
	C	13			mg/L			6024	7056	1
	Cl	37			mg/L			3017573	2586562	0
[>	Sc	45			ug/L			274724	242070	1
|	V-1	51	0.030		ug/L	0.020	66	1520	1670	14
|	V	51	-0.164		ug/L	0.003	1	8388	5524	0
|	Cr	52	-0.011	U	ug/L	0.006	56	5986	5160	0
|	Cr	53	-0.593		ug/L	0.066	11	2872	1815	3
|	Mn	55	0.141		ug/L	0.002	1	440	2819	0
[	Co	59	0.002		ug/L	0.001	44	54	71	13
[>	Ge	72			ug/L			407406	320774	0
|	Ni	60	0.004	U	ug/L	0.001	18	87	77	1
|	Ni	62	13.104		ug/L	0.261	1	71	5076	1
|	Cu	63	0.444		ug/L	0.004	0	210	2766	0
|	Cu	65	0.060	U	ug/L	0.002	3	101	251	1
|	Zn	66	0.608		ug/L	0.029	4	205	1345	3
|	Zn	67	0.439		ug/L	0.061	13	217	316	6
|	Zn	68	0.066		ug/L	0.043	64	6749	5405	1
|	As-1	75	0.036	U	ug/L	0.012	34	480	442	5
|	As	75	-0.190		ug/L	0.036	18	8965	6720	0
|	Se	82	0.071		ug/L	0.058	81	-12	2	393
|	Se	78	-0.813		ug/L	0.149	18	9091	6800	0
[	Mo	98	0.022		ug/L	0.002	11	27	145	9
	Y	89			ug/L			305272	270190	0
	Kr	83			ug/L			263	212	1
[>	In	115			ug/L			454742	373696	0
|	Ag	107	0.002	U	ug/L	0.001	23	46	66	9
|	Cd	111	-0.006	U	ug/L	0.003	45	208	154	4
|	Cd	114	0.002		ug/L	0.000	20	18	31	9
|	Sb	121	0.005		ug/L	0.002	32	144	171	10
|	Sb	123	0.003		ug/L	0.002	59	121	123	11
|	Ba	135	0.015		ug/L	0.003	21	20	52	14
[	Ba	137	0.018		ug/L	0.001	8	29	96	6
[>	Tb	159			ug/L			437751	400002	0
|	Tl	205	-0.000	U	ug/L	0.001	253	243	209	15
|	Pb	208	0.002	U	ug/L	0.001	62	830	829	5
|	Bi	209			ug/L			369705	341736	0
|	Th	232	0.004		ug/L	0.001	24	282	467	10
[	U	238	0.001		ug/L	0.000	11	35	97	7

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QK39 MB1SPK REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, March 30, 2010 18:09:52
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
⌈>	Li	6		ug/L			287408	483506	0
⌊	Be	9	22.653	ug/L	0.223	0	5	14170	0
	C	13		mg/L			6024	7657	1
	Cl	37		mg/L			3017573	2597597	1
⌈>	Sc	45		ug/L			274724	242654	0
⌈	V-1	51	24.364	ug/L	0.280	1	1520	273778	1
⌊	V	51	24.060	ug/L	0.244	1	8388	281898	1
⌈	Cr	52	24.297	ug/L	0.162	0	5986	249690	1
⌊	Cr	53	23.384	ug/L	0.061	0	2872	30811	1
⌈	Mn	55	24.032	ug/L	0.203	0	440	415581	0
⌊	Co	59	23.218	ug/L	0.246	1	54	318362	0
⌈>	Ge	72		ug/L			407406	325349	0
⌈	Ni	60	26.225	ug/L	0.366	1	87	66426	1
⌊	Ni	62	35.656	ug/L	0.278	0	71	13912	0
⌈	Cu	63	26.860	ug/L	0.393	1	210	159853	1
⌊	Cu	65	26.041	ug/L	0.393	1	101	75683	0
⌈	Zn	66	81.076	ug/L	0.607	0	205	160173	0
⌊	Zn	67	73.380	ug/L	1.151	1	217	24820	1
⌈	Zn	68	77.726	ug/L	1.047	1	6749	114908	1
⌈	As-1	75	25.641	ug/L	0.255	0	480	46415	0
⌊	As	75	24.560	ug/L	0.125	0	8965	51463	0
⌈	Se	82	83.814	ug/L	0.940	1	-12	14427	0
⌊	Se	78	78.299	ug/L	0.301	0	9091	42196	0
⌊	Mo	98	0.014	ug/L	0.003	18	27	104	14
	Y	89		ug/L			305272	273311	0
	Kr	83		ug/L			263	206	4
⌈>	In	115		ug/L			454742	374003	1
⌈	Ag	107	24.699	ug/L	0.276	1	46	294075	0
⌊	Cd	111	25.413	ug/L	0.509	2	208	74483	0
⌈	Cd	114	25.328	ug/L	0.461	1	18	175438	0
⌊	Sb	121	0.003	ug/L	0.000	15	144	150	4
⌈	Sb	123	0.001	ug/L	0.001	116	121	107	7
⌊	Ba	135	24.565	ug/L	0.619	2	20	59359	0
⌊	Ba	137	24.780	ug/L	0.617	2	29	101461	1
⌈>	Tb	159		ug/L			437751	407496	1
⌈	Tl	205	23.978	ug/L	0.043	0	243	730454	1
⌊	Pb	208	25.025	ug/L	0.258	1	830	1014381	0
⌈	Bi	209		ug/L			369705	346914	0
⌊	Th	232	24.389	ug/L	0.383	1	282	1224513	0
⌊	U	238	25.138	ug/L	0.480	1	35	1372353	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QK39 B-L REN
Sample Dil Factor: 10
Comments:
Sample Date/Time: Tuesday, March 30, 2010 18:16:43
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

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Cr

	Analyte	Mass		Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6			ug/L			287408	489521	0
[	Be	9		0.011	ug/L	0.009	77	5	17	32
	C	13			mg/L			6024	6104	0
	Cl	37			mg/L			3017573	2502286	0
[>	Sc	45			ug/L			274724	254570	1
[	V-1	51		1.611	ug/L	0.025	1	1520	20309	1
[	V	51		1.375	ug/L	0.033	2	8388	24227	1
[	Cr	52		0.127	ug/L	0.009	7	5986	6892	2
[	Cr	53		-0.497	ug/L	0.025	5	2872	2032	1
[	Mn	55		94.408	ug/L	1.279	1	440	1711507	1
[	Co	59		0.332	ug/L	0.006	1	54	4828	2
[>	Ge	72			ug/L			407406	321303	0
[	Ni	60		0.619	ug/L	0.018	2	87	1615	2
[	Ni	62		10.407	ug/L	0.109	1	71	4049	0
[	Cu	63		0.708	ug/L	0.014	1	210	4321	1
[	Cu	65	J	0.401	ug/L	0.024	5	101	1229	5
[	Zn	66		1.245	ug/L	0.040	3	205	2588	2
[	Zn	67		1.186	ug/L	0.078	6	217	564	4
[	Zn	68		0.530	ug/L	0.056	10	6749	6059	1
[	As-1	75		0.270	ug/L	0.026	9	480	857	5
[	As	75	V	-0.047	ug/L	0.031	65	8965	6986	0
[	Se	82		0.088	ug/L	0.050	56	-12	5	159
[	Se	78		-1.212	ug/L	0.063	5	9091	6635	0
[	Mo	98		0.871	ug/L	0.027	3	27	5025	3
	Y	89			ug/L			305272	272090	0
	Kr	83			ug/L			263	203	0
[>	In	115			ug/L			454742	372064	0
[	Ag	107	V	0.019	ug/L	0.005	25	46	266	21
[	Cd	111	J	0.003	ug/L	0.003	98	208	179	3
[	Cd	114		0.015	ug/L	0.004	26	18	116	22
[	Sb	121		0.020	ug/L	0.002	7	144	335	4
[	Sb	123		0.019	ug/L	0.003	17	121	258	9
[	Ba	135		2.342	ug/L	0.090	3	20	5644	3
[	Ba	137		2.333	ug/L	0.023	1	29	9528	1
[>	Tb	159			ug/L			437751	402724	1
[	Tl	205	V	0.020	ug/L	0.004	19	243	824	14
[	Pb	208	J	0.057	ug/L	0.005	8	830	3035	7
[	Bi	209			ug/L			369705	337871	0
[	Th	232		0.063	ug/L	0.005	8	282	3373	8
[	U	238		0.021	ug/L	0.002	10	35	1175	9

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QK39 B REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, March 30, 2010 18:24:31
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

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C6

	Analyte	Mass	Conc. Mean		Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	**Li**	**6**			ug/L			287408	487720	3
[	**Be**	**9**	**0.033**		ug/L	0.009	28	5	30	17
	C	**13**			mg/L			6024	8644	0
	Cl	**37**			mg/L			3017573	2468835	0
[>	**Sc**	**45**			ug/L			274724	299526	0
|	**V-1**	**51**	**6.661**		ug/L	0.031	0	1520	93597	0
|	**V**	**51**	**6.344**		ug/L	0.036	0	8388	98477	0
|	**Cr**	**52**	**0.796**		ug/L	0.023	2	5986	16408	1
|	**Cr**	**53**	**0.189**		ug/L	0.030	15	2872	3414	1
|	**Mn**	**55**	**415.471**		ug/L	3.286	0	440	8860978	0
[	**Co**	**59**	**1.314**		ug/L	0.020	1	54	22299	1
[>	**Ge**	**72**			ug/L			407406	315574	0
|	**Ni**	**60**	**2.875**		ug/L	0.054	1	87	7122	1
|	**Ni**	**62**	**18.079**		ug/L	1.577	8	71	6867	8
|	**Cu**	**63**	**2.198**		ug/L	0.039	1	210	12838	1
|	**Cu**	**65**	**1.658**		ug/L	0.008	0	101	4749	0
|	**Zn**	**66**	**5.023**		ug/L	0.082	1	205	9774	1
|	**Zn**	**67**	**4.907**		ug/L	0.138	2	217	1767	2
|	**Zn**	**68**	**4.453**		ug/L	0.021	0	6749	11313	0
|	**As-1**	**75**	**1.285**		ug/L	0.021	1	480	2609	0
|	**As**	**75**	**1.040**		ug/L	0.042	4	8965	8764	1
|	**Se**	**82**	**0.194**		ug/L	0.026	13	-12	22	18
|	**Se**	**78**	**-0.678**		ug/L	0.261	38	9091	6749	2
[	**Mo**	**98**	**4.361**		ug/L	0.104	2	27	24633	2
	Y	**89**			ug/L			305272	286793	0
	Kr	**83**			ug/L			263	220	1
[>	**In**	**115**		U	ug/L			454742	361731	0
|	**Ag**	**107**	**0.016**		ug/L	0.000	1	46	227	1
|	**Cd**	**111**	**0.012**	U	ug/L	0.012	99	208	198	15
|	**Cd**	**114**	**0.017**		ug/L	0.000	2	18	130	2
|	**Sb**	**121**	**0.118**		ug/L	0.004	3	144	1348	2
|	**Sb**	**123**	**0.116**		ug/L	0.004	3	121	1015	2
|	**Ba**	**135**	**11.524**		ug/L	0.229	1	20	26948	1
[	**Ba**	**137**	**11.719**		ug/L	0.029	0	29	46433	0
[>	**Tb**	**159**			ug/L			437751	401255	0
|	**Tl**	**205**	**0.013**	U	ug/L	0.003	20	243	618	12
|	**Pb**	**208**	**0.125**		ug/L	0.002	1	830	5740	0
|	**Bi**	**209**			ug/L			369705	326523	0
|	**Th**	**232**	**0.087**		ug/L	0.010	11	282	4574	9
[	**U**	**238**	**0.045**		ug/L	0.004	8	35	2446	8

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QK39 BDUP REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, March 30, 2010 18:32:16
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

ren
Cr

	Analyte	Mass		Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6			ug/L			287408	502082	0
[	Be	9		0.027	ug/L	0.020	75	5	27	47
	C	13			mg/L			6024	8359	1
	Cl	37			mg/L			3017573	2362882	0
[>	Sc	45			ug/L			274724	292517	1
[	V-1	51		6.717	ug/L	0.092	1	1520	92150	0
[	V	51		6.395	ug/L	0.112	1	8388	96861	1
[	Cr	52		0.773	ug/L	0.005	0	5986	15742	1
[	Cr	53		0.156	ug/L	0.085	54	2872	3285	3
[	Mn	55		426.275	ug/L	5.020	1	440	8877793	0
[	Co	59		1.351	ug/L	0.028	2	54	22386	0
[>	Ge	72			ug/L			407406	313298	1
[	Ni	60		2.920	ug/L	0.008	0	87	7181	1
[	Ni	62		19.374	ug/L	1.080	5	71	7302	5
[	Cu	63		2.166	ug/L	0.035	1	210	12560	0
[	Cu	65		1.584	ug/L	0.038	2	101	4505	2
[	Zn	66		3.678	ug/L	0.057	1	205	7148	1
[	Zn	67		3.821	ug/L	0.171	4	217	1402	2
[	Zn	68		3.108	ug/L	0.052	1	6749	9406	1
[	As-1	75		1.260	ug/L	0.023	1	480	2547	1
[	As	75		0.962	ug/L	0.055	5	8965	8564	0
[	Se	82		0.160	ug/L	0.112	69	-12	17	108
[	Se	78		-0.959	ug/L	0.167	17	9091	6578	0
[	Mo	98		4.417	ug/L	0.082	1	27	24767	0
	Y	89			ug/L			305272	289546	0
	Kr	83			ug/L			263	212	2
[>	In	115			ug/L			454742	358000	0
[	Ag	107	V	0.011	ug/L	0.001	8	46	160	6
[	Cd	111	V	-0.003	ug/L	0.012	474	208	157	21
[	Cd	114		0.013	ug/L	0.001	9	18	101	7
[	Sb	121		0.114	ug/L	0.004	3	144	1297	3
[	Sb	123		0.112	ug/L	0.002	1	121	978	1
[	Ba	135		11.664	ug/L	0.192	1	20	26994	1
[	Ba	137		11.932	ug/L	0.285	2	29	46783	1
[>	Tb	159			ug/L			437751	402336	1
[	Tl	205	V	0.008	ug/L	0.001	16	243	468	9
[	Pb	208	V	0.124	ug/L	0.003	2	830	5709	2
[	Bi	209			ug/L			369705	326446	1
[	Th	232		0.065	ug/L	0.002	2	282	3480	3
[	U	238		0.040	ug/L	0.001	2	35	2215	3

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QK39 BSPK REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, March 30, 2010 18:39:01
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
>	Li	6		ug/L			287408	494964	1
	Be	9	21.945	ug/L	0.117	0	5	14053	0
	C	13		mg/L			6024	8099	0
	Cl	37		mg/L			3017573	2299615	1
>	Sc	45		ug/L			274724	277936	0
	V-1	51	26.269	ug/L	0.331	1	1520	337967	1
	V	51	25.923	ug/L	0.381	1	8388	347209	1
	Cr	52	20.172	ug/L	0.215	1	5986	238451	0
	Cr	53	19.493	ug/L	0.252	1	2872	29900	0
	Mn	55	448.758	ug/L	4.644	1	440	8880842	0
	Co	59	19.291	ug/L	0.325	1	54	302996	1
>	Ge	72		ug/L			407406	300527	1
	Ni	60	27.693	ug/L	0.441	1	87	64781	0
	Ni	62	44.992	ug/L	1.333	2	71	16198	2
	Cu	63	26.742	ug/L	0.375	1	210	146992	0
	Cu	65	25.567	ug/L	0.400	1	101	68633	1
	Zn	66	78.255	ug/L	0.903	1	205	142797	0
	Zn	67	71.570	ug/L	1.308	1	217	22361	0
	Zn	68	75.512	ug/L	1.762	2	6749	103235	0
	As-1	75	26.894	ug/L	0.200	0	480	44949	1
	As	75	25.732	ug/L	0.231	0	8965	49487	1
	Se	82	84.302	ug/L	1.206	1	-12	13403	0
	Se	78	78.591	ug/L	1.236	1	9091	39092	0
	Mo	98	4.453	ug/L	0.092	2	27	23952	1
	Y	89		ug/L			305272	277433	0
	Kr	83		ug/L			263	209	3
>	In	115		ug/L			454742	346059	1
	Ag	107	20.414	ug/L	0.210	1	46	224908	0
	Cd	111	25.111	ug/L	0.090	0	208	68115	1
	Cd	114	25.076	ug/L	0.221	0	18	160736	1
	Sb	121	0.115	ug/L	0.002	1	144	1267	0
	Sb	123	0.112	ug/L	0.004	3	121	940	3
	Ba	135	36.199	ug/L	0.243	0	20	80951	1
	Ba	137	36.298	ug/L	0.404	1	29	137543	1
>	Tb	159		ug/L			437751	388806	1
	Tl	205	23.270	ug/L	0.143	0	243	676354	0
	Pb	208	24.306	ug/L	0.169	0	830	940131	0
	Bi	209		ug/L			369705	315616	0
	Th	232	25.115	ug/L	0.462	1	282	1203079	0
	U	238	25.692	ug/L	0.438	1	35	1338268	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QK39 BPOST REN 222222
Sample Dil Factor: 2
Comments: BW 3.31
Sample Date/Time: Tuesday, March 30, 2010 18:45:46
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
⌈>	**Li**	**6**		ug/L			287408	501310	0
⌊	**Be**	**9**	**22.394**	ug/L	0.287	1	5	14524	0
	C	**13**		mg/L			6024	8485	0
	Cl	**37**		mg/L			3017573	2267616	0
⌈>	**Sc**	**45**		ug/L			274724	275888	1
⌈	**V-1**	**51**	**26.908**	ug/L	0.496	1	1520	343556	0
⌊	**V**	**51**	**26.487**	ug/L	0.464	1	8388	351922	0
⌈	**Cr**	**52**	**20.491**	ug/L	0.376	1	5986	240314	0
⌊	**Cr**	**53**	**19.604**	ug/L	0.395	2	2872	29831	1
⌈	**Mn**	**55**	**439.796**	ug/L	7.496	1	440	8638275	0
⌊	**Co**	**59**	**20.009**	ug/L	0.185	0	54	311932	0
⌈>	**Ge**	**72**		ug/L			407406	295498	0
⌈	**Ni**	**60**	**28.231**	ug/L	0.247	0	87	64943	1
⌊	**Ni**	**62**	**44.672**	ug/L	1.295	2	71	15817	3
⌈	**Cu**	**63**	**27.656**	ug/L	0.376	1	210	149493	1
⌊	**Cu**	**65**	**26.685**	ug/L	0.213	0	101	70442	1
⌈	**Zn**	**66**	**82.383**	ug/L	0.722	0	205	147826	1
⌈	**Zn**	**67**	**74.662**	ug/L	0.434	0	217	22935	0
⌊	**Zn**	**68**	**79.504**	ug/L	0.950	1	6749	106640	0
⌈	**As-1**	**75**	**27.740**	ug/L	0.325	1	480	45580	1
⌊	**As**	**75**	**26.726**	ug/L	0.397	1	8965	50290	1
⌈	**Se**	**82**	**86.318**	ug/L	0.331	0	-12	13496	0
⌊	**Se**	**78**	**81.131**	ug/L	0.440	0	9091	39472	0
⌊	**Mo**	**98**	**4.412**	ug/L	0.007	0	27	23337	0
	Y	**89**		ug/L			305272	273952	0
	Kr	**83**		ug/L			263	197	3
⌈>	**In**	**115**		ug/L			454742	340425	1
⌈	**Ag**	**107**	**24.098**	ug/L	0.200	0	46	261186	1
⌈	**Cd**	**111**	**25.927**	ug/L	0.221	0	208	69177	0
⌊	**Cd**	**114**	**25.910**	ug/L	0.071	0	18	163385	1
⌈	**Sb**	**121**	**0.120**	ug/L	0.003	2	144	1291	1
⌊	**Sb**	**123**	**0.114**	ug/L	0.002	1	121	943	1
⌈	**Ba**	**135**	**37.374**	ug/L	0.236	0	20	82220	1
⌊	**Ba**	**137**	**37.587**	ug/L	0.376	1	29	140098	0
⌈>	**Tb**	**159**		ug/L			437751	385717	0
⌈	**Tl**	**205**	**23.902**	ug/L	0.143	0	243	689236	0
⌊	**Pb**	**208**	**25.250**	ug/L	0.037	0	830	968894	0
⌈	**Bi**	**209**		ug/L			369705	314115	0
⌈	**Th**	**232**	**25.691**	ug/L	0.250	0	282	1221116	1
⌊	**U**	**238**	**26.517**	ug/L	0.077	0	35	1370472	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QK39 C REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, March 30, 2010 18:52:32
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

	Analyte	Mass		Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
>	Li	6			ug/L			287408	487667	1
	Be	9		0.023	ug/L	0.007	32	5	24	18
	C	13			mg/L			6024	8627	0
	Cl	37			mg/L			3017573	2435050	0
>	Sc	45			ug/L			274724	269206	0
	V-1	51		3.073	ug/L	0.069	2	1520	39604	1
	V	51		2.874	ug/L	0.040	1	8388	44591	0
	Cr	52		0.915	ug/L	0.003	0	5986	16080	0
	Cr	53		0.444	ug/L	0.089	20	2872	3411	4
	Mn	55		521.167	ug/L	4.943	0	440	9990041	1
	Co	59		0.759	ug/L	0.007	0	54	11600	1
>	Ge	72			ug/L			407406	288564	1
	Ni	60		11.861	ug/L	0.283	2	87	26673	0
	Ni	62		23.005	ug/L	0.472	2	71	7977	0
	Cu	63		1.682	ug/L	0.055	3	210	9017	1
	Cu	65		0.783	ug/L	0.005	0	101	2087	1
	Zn	66		57.121	ug/L	0.907	1	205	100119	0
	Zn	67		50.303	ug/L	0.505	1	217	15139	1
	Zn	68		55.466	ug/L	0.930	1	6749	74087	0
	As-1	75		1.962	ug/L	0.046	2	480	3463	1
	As	75		1.683	ug/L	0.103	6	8965	9041	0
	Se	82		0.421	ug/L	0.073	17	-12	55	18
	Se	78		-0.527	ug/L	0.329	62	9091	6229	0
	Mo	98		3.066	ug/L	0.030	0	27	15841	0
	Y	89			ug/L			305272	266790	1
	Kr	83			ug/L			263	209	3
>	In	115			ug/L			454742	330122	1
	Ag	107	U	0.024	ug/L	0.002	7	46	283	7
	Cd	111	U	-0.051	ug/L	0.012	23	208	21	145
	Cd	114		0.025	ug/L	0.003	11	18	166	10
	Sb	121		0.082	ug/L	0.006	7	144	884	5
	Sb	123		0.086	ug/L	0.005	6	121	710	6
	Ba	135		10.728	ug/L	0.152	1	20	22893	0
	Ba	137		10.905	ug/L	0.098	0	29	39432	0
>	Tb	159			ug/L			437751	377834	0
	Tl	205	U	0.020	ug/L	0.002	8	243	779	5
	Pb	208	U	0.096	ug/L	0.005	5	830	4331	4
	Bi	209			ug/L			369705	304604	0
	Th	232		0.042	ug/L	0.004	8	282	2209	7
	U	238		0.026	ug/L	0.002	9	35	1335	8

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ39 E REN
Sample Dil Factor: 10
Comments:
Sample Date/Time: Tuesday, March 30, 2010 18:59:18
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

rerun

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
⌈>	Li	6		ug/L			287408	484989	1
⌊	Be	9	0.035	ug/L	0.010	29	5	31	19
	C	13		mg/L			6024	6576	0
	Cl	37		mg/L			3017573	2405211	0
⌈>	Sc	45		ug/L			274724	222433	0
|	V-1	51	20.824	ug/L	0.223	1	1520	214661	0
|	V	51	20.359	ug/L	0.218	1	8388	219681	0
|	Cr	52	4.347	ug/L	0.101	2	5986	44921	1
|	Cr	53	3.930	ug/L	0.166	4	2872	6681	2
|	Mn	55	63.080	ug/L	0.933	1	440	999359	1
⌊	Co	59	0.171	ug/L	0.001	0	54	2195	0
⌈>	Ge	72		ug/L			407406	281138	0
|	Ni	60	0.393	ug/L	0.034	8	87	920	8
|	Ni	62	13.265	ug/L	0.382	2	71	4503	2
|	Cu	63	1.100	ug/L	0.013	1	210	5794	1
|	Cu	65	0.271	ug/L	0.012	4	101	750	3
|	Zn	66	1.658	ug/L	0.026	1	205	2969	1
|	Zn	67	2.648	ug/L	0.133	5	217	918	3
|	Zn	68	1.024	ug/L	0.135	13	6749	5903	2
|	As-1	75	1.585	ug/L	0.031	1	480	2790	1
|	As	75	1.359	ug/L	0.018	1	8965	8305	0
|	Se	82	0.280	ug/L	0.057	20	-12	33	25
|	Se	78	-0.451	ug/L	0.021	4	9091	6099	0
⌊	Mo	98	0.338	ug/L	0.014	4	27	1720	4
	Y	89		ug/L			305272	282764	0
	Kr	83		ug/L			263	205	3
⌈>	In	115		ug/L			454742	319755	1
|	Ag	107	0.016	ug/L	0.002	12	46	197	9
|	Cd	111	-0.024	ug/L	0.028	119	208	87	79
|	Cd	114	0.005	ug/L	0.001	12	18	41	9
|	Sb	121	0.013	ug/L	0.001	10	144	220	5
|	Sb	123	0.010	ug/L	0.001	12	121	159	4
|	Ba	135	2.697	ug/L	0.045	1	20	5585	0
⌊	Ba	137	2.724	ug/L	0.026	0	29	9555	0
⌈>	Tb	159		ug/L			437751	372475	0
|	Tl	205	0.006	ug/L	0.001	9	243	387	3
|	Pb	208	0.060	ug/L	0.004	7	830	2919	5
|	Bi	209		ug/L			369705	298198	1
|	Th	232	0.039	ug/L	0.001	2	282	2051	2
⌊	U	238	0.012	ug/L	0.001	8	35	605	7

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ17 B REN
Sample Dil Factor: 5
Comments:
Sample Date/Time: Tuesday, March 30, 2010 19:06:05
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

see prev.

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			287408	465896	1
[	Be	9	0.028	ug/L	0.008	26	5	26	18
	C	13		mg/L			6024	7066	0
	Cl	37		mg/L			3017573	3609189	0
[>	Sc	45		ug/L			274724	218510	1
[	V-1	51	1.290	ug/L	0.015	1	1520	14194	2
[	V	51	2.425	ug/L	0.035	1	8388	31580	0
[	Cr	52	0.260	ug/L	0.018	6	5986	7116	1
[	Cr	53	3.748	ug/L	0.129	3	2872	6364	1
[	Mn	55	1.942	ug/L	0.040	2	440	30564	0
[	Co	59	0.107	ug/L	0.004	3	54	1369	3
[>	Ge	72		ug/L			407406	270646	0
[	Ni	60	1.497	ug/L	0.017	1	87	3210	1
[	Ni	62	15.755	ug/L	0.816	5	71	5138	4
[	Cu	63	2.291	ug/L	0.023	0	210	11471	0
[	Cu	65	1.301	ug/L	0.011	0	101	3209	1
[	Zn	66	2.227	ug/L	0.054	2	205	3792	1
[	Zn	67	2.443	ug/L	0.238	9	217	826	7
[	Zn	68	1.840	ug/L	0.110	5	6749	6640	1
[	As-1	75	0.450	ug/L	0.045	9	480	991	6
[	As	75	0.260	ug/L	0.051	19	8965	6345	0
[	Se	82	0.924	ug/L	0.127	13	-12	124	14
[	Se	78	0.412	ug/L	0.128	30	9091	6192	0
[	Mo	98	0.681	ug/L	0.009	1	27	3314	1
	Y	89		ug/L			305272	247157	1
	Kr	83		ug/L			263	213	4
[>	In	115		ug/L			454742	309778	0
[	Ag	107	0.013	ug/L	0.002	14	46	161	12
[	Cd	111	0.158	ug/L	0.008	5	208	524	3
[	Cd	114	0.243	ug/L	0.009	3	18	1406	4
[	Sb	121	0.185	ug/L	0.007	3	144	1763	3
[	Sb	123	0.183	ug/L	0.008	4	121	1327	4
[	Ba	135	17.191	ug/L	0.133	0	20	34420	0
[	Ba	137	17.379	ug/L	0.162	0	29	58959	0
[>	Tb	159		ug/L			437751	360748	1
[	Tl	205	0.010	ug/L	0.001	14	243	471	8
[	Pb	208	0.197	ug/L	0.012	6	830	7750	6
[	Bi	209		ug/L			369705	284387	0
[	Th	232	0.130	ug/L	0.003	1	282	6023	1
[	U	238	0.051	ug/L	0.001	2	35	2517	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV7
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, March 30, 2010 19:12:53
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			287408	474963	1
[	Be	9	44.991	ug/L	0.648	1	5	27635	1
	C	13		mg/L			6024	5789	1
	Cl	37		mg/L			3017573	2218769	0
[>	Sc	45		ug/L			274724	201464	0
[	V-1	51	49.257	ug/L	0.401	0	1520	458379	0
[	V	51	48.797	ug/L	0.298	0	8388	468320	0
[	Cr	52	48.601	ug/L	0.743	1	5986	410239	0
[	Cr	53	47.251	ug/L	0.692	1	2872	49536	0
[	Mn	55	48.126	ug/L	0.402	0	440	690628	0
[	Co	59	45.653	ug/L	0.674	1	54	519681	0
[>	Ge	72		ug/L			407406	271892	0
[	Ni	60	51.225	ug/L	0.669	1	87	108376	1
[	Ni	62	58.875	ug/L	0.494	0	71	19165	0
[	Cu	63	50.656	ug/L	0.078	0	210	251820	0
[	Cu	65	49.323	ug/L	0.223	0	101	119739	0
[	Zn	66	51.185	ug/L	0.493	0	205	84557	0
[	Zn	67	48.860	ug/L	0.532	1	217	13860	0
[	Zn	68	49.440	ug/L	0.679	1	6749	62721	1
[	As-1	75	51.142	ug/L	0.359	0	480	77047	0
[	As	75	50.375	ug/L	0.295	0	8965	81923	0
[	Se	82	56.424	ug/L	0.395	0	-12	8114	0
[	Se	78	53.434	ug/L	0.444	0	9091	25991	0
[	Mo	98	55.711	ug/L	0.704	1	27	270945	1
	Y	89		ug/L			305272	237835	1
	Kr	83		ug/L			263	207	2
[>	In	115		ug/L			454742	316775	1
[	Ag	107	51.866	ug/L	0.287	0	46	523057	1
[	Cd	111	52.118	ug/L	0.428	0	208	129265	1
[	Cd	114	52.284	ug/L	0.195	0	18	306774	0
[	Sb	121	50.503	ug/L	0.182	0	144	463830	1
[	Sb	123	50.280	ug/L	0.274	0	121	349782	1
[	Ba	135	50.273	ug/L	0.308	0	20	102901	0
[	Ba	137	50.793	ug/L	0.172	0	29	176173	1
[>	Tb	159		ug/L			437751	364396	0
[	Tl	205	47.219	ug/L	0.033	0	243	1286138	0
[	Pb	208	49.370	ug/L	0.285	0	830	1789039	0
[	Bi	209		ug/L			369705	302325	0
[	Th	232	53.556	ug/L	0.132	0	282	2404463	0
[	U	238	54.211	ug/L	0.401	0	35	2646717	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB7
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, March 30, 2010 19:20:21
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			287408	480388	0
[	Be	9	0.000	ug/L	0.010	3056	5	10	66
	C	13		mg/L			6024	5912	3
	Cl	37		mg/L			3017573	2221923	0
[>	Sc	45		ug/L			274724	203714	0
[	V-1	51	0.009	ug/L	0.015	162	1520	1212	10
[	V	51	-0.169	ug/L	0.013	7	8388	4602	3
[	Cr	52	-0.080	ug/L	0.009	11	5986	3761	2
[	Cr	53	-0.612	ug/L	0.083	13	2872	1509	6
[	Mn	55	0.029	ug/L	0.014	48	440	745	27
[	Co	59	0.009	ug/L	0.009	96	54	149	71
[>	Ge	72		ug/L			407406	273559	0
[	Ni	60	0.008	ug/L	0.013	154	87	76	36
[	Ni	62	6.212	ug/L	0.096	1	71	2077	1
[	Cu	63	0.190	ug/L	0.009	4	210	1093	4
[	Cu	65	0.027	ug/L	0.013	48	101	134	24
[	Zn	66	0.036	ug/L	0.014	38	205	197	11
[	Zn	67	-0.045	ug/L	0.042	92	217	132	8
[	Zn	68	-0.519	ug/L	0.094	18	6749	3917	2
[	As-1	75	0.054	ug/L	0.004	7	480	404	1
[	As	75	0.008	ug/L	0.037	467	8965	6032	1
[	Se	82	0.030	ug/L	0.062	202	-12	-3	235
[	Se	78	-0.027	ug/L	0.164	598	9091	6094	1
[	Mo	98	0.036	ug/L	0.023	63	27	194	57
	Y	89		ug/L			305272	239007	0
	Kr	83		ug/L			263	195	4
[>	In	115		ug/L			454742	320865	0
[	Ag	107	0.024	ug/L	0.016	65	46	278	58
[	Cd	111	-0.005	ug/L	0.011	231	208	135	21
[	Cd	114	0.015	ug/L	0.011	76	18	100	67
[	Sb	121	0.184	ug/L	0.089	48	144	1820	46
[	Sb	123	0.182	ug/L	0.086	47	121	1373	44
[	Ba	135	0.027	ug/L	0.014	51	20	70	41
[	Ba	137	0.021	ug/L	0.009	44	29	94	35
[>	Tb	159		ug/L			437751	363393	0
[	Tl	205	0.026	ug/L	0.017	64	243	909	50
[	Pb	208	0.029	ug/L	0.020	68	830	1728	41
[	Bi	209		ug/L			369705	305254	0
[	Th	232	0.051	ug/L	0.023	44	282	2524	40
[	U	238	0.015	ug/L	0.012	78	35	763	75

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QK39 D REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, March 30, 2010 19:27:48
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

	Analyte	Mass	Conc. Mean		Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6			ug/L			287408	488035	0
[	Be	9	-0.003		ug/L	0.002	76	5	7	18
	C	13			mg/L			6024	7427	0
	Cl	37			mg/L			3017573	2231937	0
[>	Sc	45			ug/L			274724	247551	0
[	V-1	51	6.729		ug/L	0.105	1	1520	78119	0
[	V	51	6.515		ug/L	0.088	1	8388	83377	0
[	Cr	52	0.199	J	ug/L	0.011	5	5986	7438	0
[	Cr	53	-0.054		ug/L	0.041	75	2872	2522	2
[	Mn	55	223.622		ug/L	3.738	1	440	3941640	1
[	Co	59	2.119		ug/L	0.032	1	54	29683	1
[>	Ge	72			ug/L			407406	275684	0
[	Ni	60	5.639		ug/L	0.088	1	87	12149	0
[	Ni	62	13.647		ug/L	0.798	5	71	4542	6
[	Cu	63	1.513		ug/L	0.007	0	210	7766	1
[	Cu	65	1.149		ug/L	0.007	0	101	2895	1
[	Zn	66	2.117		ug/L	0.070	3	205	3679	2
[	Zn	67	2.424		ug/L	0.109	4	217	836	4
[	Zn	68	1.731		ug/L	0.147	8	6749	6633	1
[	As-1	75	0.854		ug/L	0.071	8	480	1623	5
[	As	75	0.702		ug/L	0.090	12	8965	7139	1
[	Se	82	2.473		ug/L	0.083	3	-12	352	2
[	Se	78	1.987		ug/L	0.118	5	9091	6902	0
[	Mo	98	15.564		ug/L	0.137	0	27	76762	0
	Y	89			ug/L			305272	252205	0
	Kr	83			ug/L			263	201	3
[>	In	115		J	ug/L			454742	318572	0
[	Ag	107	0.011		ug/L	0.002	21	46	142	16
[	Cd	111	-0.014	J	ug/L	0.023	160	208	110	51
[	Cd	114	0.032		ug/L	0.002	7	18	203	6
[	Sb	121	0.270		ug/L	0.017	6	144	2592	6
[	Sb	123	0.275		ug/L	0.011	4	121	2007	3
[	Ba	135	11.612		ug/L	0.142	1	20	23912	0
[	Ba	137	11.914		ug/L	0.084	0	29	41570	0
[>	Tb	159			ug/L			437751	372961	0
[	Tl	205	0.019	J	ug/L	0.001	6	243	723	5
[	Pb	208	0.066	J	ug/L	0.004	6	830	3154	5
[	Bi	209			ug/L			369705	299185	0
[	Th	232	0.060		ug/L	0.020	33	282	2984	31
[	U	238	0.081		ug/L	0.003	3	35	4058	3

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QK39 E REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, March 30, 2010 19:34:36
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

	Analyte	Mass	Conc. Mean		Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6			ug/L			287408	485623	1
[	Be	9	-0.002		ug/L	0.005	313	5	8	37
	C	13			mg/L			6024	8185	0
	Cl	37			mg/L			3017573	1954895	5
[>	Sc	45			ug/L			274724	235726	1
[	V-1	51	21.518		ug/L	0.289	1	1520	235024	0
[	V	51	20.916		ug/L	0.296	1	8388	238985	1
[	Cr	52	0.322		ug/L	0.014	4	5986	8280	2
[	Cr	53	-0.224	V	ug/L	0.053	23	2872	2202	3
[	Mn	55	89.546		ug/L	0.477	0	440	1503255	0
[	Co	59	1.427		ug/L	0.014	0	54	19052	1
[>	Ge	72			ug/L			407406	264726	0
[	Ni	60	3.649		ug/L	0.068	1	87	7570	2
[	Ni	62	13.207		ug/L	0.483	3	71	4221	3
[	Cu	63	4.528		ug/L	0.109	2	210	22040	2
[	Cu	65	3.885		ug/L	0.075	1	101	9245	2
[	Zn	66	2.297		ug/L	0.010	0	205	3822	0
[	Zn	67	3.364		ug/L	0.220	6	217	1060	6
[	Zn	68	1.824		ug/L	0.063	3	6749	6477	1
[	As-1	75	1.993		ug/L	0.016	0	480	3224	1
[	As	75	1.803		ug/L	0.027	1	8965	8471	0
[	Se	82	1.044		ug/L	0.015	1	-12	138	1
[	Se	78	0.431		ug/L	0.107	24	9091	6064	0
[	Mo	98	5.843		ug/L	0.077	1	27	27684	1
	Y	89			ug/L			305272	250132	0
	Kr	83			ug/L			263	190	0
[>	In	115			ug/L			454742	307713	1
[	Ag	107	0.008	V	ug/L	0.003	32	46	112	22
[	Cd	111	-0.019	V	ug/L	0.015	77	208	94	38
[	Cd	114	0.032		ug/L	0.002	7	18	196	5
[	Sb	121	0.246		ug/L	0.005	1	144	2295	3
[	Sb	123	0.246		ug/L	0.008	3	121	1742	4
[	Ba	135	7.869		ug/L	0.159	2	20	15654	0
[	Ba	137	7.877		ug/L	0.070	0	29	26553	0
[>	Tb	159			ug/L			437751	361925	0
[	Tl	205	0.011	V	ug/L	0.000	3	243	502	2
[	Pb	208	0.080	V	ug/L	0.003	4	830	3561	3
[	Bi	209			ug/L			369705	290205	0
[	Th	232	0.045		ug/L	0.003	5	282	2243	5
[	U	238	0.105		ug/L	0.002	1	35	5114	2

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QK39 F REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, March 30, 2010 19:41:24
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

	Analyte	Mass		Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6			ug/L			287408	486196	1
[	Be	9		0.036	ug/L	0.010	28	5	32	19
	C	13			mg/L			6024	7838	1
	Cl	37			mg/L			3017573	2342737	0
[>	Sc	45			ug/L			274724	245362	0
[	V-1	51		3.156	ug/L	0.035	1	1520	37039	0
[	V	51		3.128	ug/L	0.047	1	8388	43568	0
[	Cr	52	V	0.499	ug/L	0.026	5	5986	10427	2
[	Cr	53		0.573	ug/L	0.064	11	2872	3266	1
[	Mn	55		340.652	ug/L	6.989	2	440	5951408	1
[	Co	59		0.862	ug/L	0.028	3	54	12004	3
[>	Ge	72			ug/L			407406	267344	1
[	Ni	60		3.705	ug/L	0.076	2	87	7761	3
[	Ni	62		10.880	ug/L	0.265	2	71	3520	1
[	Cu	63		1.490	ug/L	0.028	1	210	7417	0
[	Cu	65		1.103	ug/L	0.033	2	101	2699	3
[	Zn	66		14.525	ug/L	0.135	0	205	23689	0
[	Zn	67		13.003	ug/L	0.319	2	217	3731	3
[	Zn	68		14.032	ug/L	0.176	1	6749	20675	1
[	As-1	75		1.209	ug/L	0.010	0	480	2099	1
[	As	75		1.012	ug/L	0.012	1	8965	7383	1
[	Se	82		0.335	ug/L	0.064	19	-12	39	24
[	Se	78		-0.365	ug/L	0.036	9	9091	5832	1
[	Mo	98		2.504	ug/L	0.012	0	27	11992	1
	Y	89			ug/L			305272	244262	1
	Kr	83			ug/L			263	183	2
[>	In	115	U		ug/L			454742	308955	1
[	Ag	107		0.005	ug/L	0.001	19	46	80	11
[	Cd	111	U	-0.020	ug/L	0.007	33	208	93	15
[	Cd	114		0.009	ug/L	0.001	12	18	66	10
[	Sb	121		0.089	ug/L	0.005	5	144	891	4
[	Sb	123		0.089	ug/L	0.003	3	121	688	3
[	Ba	135		14.608	ug/L	0.246	1	20	29170	1
[	Ba	137		14.586	ug/L	0.039	0	29	49358	1
[>	Tb	159			ug/L			437751	362871	1
[	Tl	205	V	0.015	ug/L	0.001	8	243	603	6
[	Pb	208	U	0.032	ug/L	0.001	1	830	1856	0
[	Bi	209			ug/L			369705	293539	0
[	Th	232		0.020	ug/L	0.002	9	282	1138	6
[	U	238		0.012	ug/L	0.000	2	35	625	2

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QK56 B REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, March 30, 2010 19:49:13
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

ren
Cr

	Analyte	Mass		Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6			ug/L			287408	483667	2
[	Be	9		0.064	ug/L	0.003	4	5	50	2
	C	13			mg/L			6024	8522	1
	Cl	37			mg/L			3017573	1863050	5
[>	Sc	45			ug/L			274724	245006	0
	V-1	51		14.365	ug/L	0.146	1	1520	163543	1
	V	51		13.878	ug/L	0.115	0	8388	167341	1
	Cr	52		2.585	ug/L	0.028	1	5986	31590	0
	Cr	53		1.820	ug/L	0.075	4	2872	4784	1
	Mn	55		234.292	ug/L	1.716	0	440	4087452	0
[	Co	59		1.412	ug/L	0.006	0	54	19590	0
[>	Ge	72			ug/L			407406	259369	0
	Ni	60		1.793	ug/L	0.033	1	87	3672	1
	Ni	62		8.308	ug/L	0.279	3	71	2618	2
	Cu	63		3.587	ug/L	0.025	0	210	17132	1
	Cu	65		3.032	ug/L	0.002	0	101	7083	0
	Zn	66		2.111	ug/L	0.036	1	205	3451	1
	Zn	67		2.893	ug/L	0.210	7	217	912	5
	Zn	68		1.748	ug/L	0.073	4	6749	6259	1
	As-1	75		5.098	ug/L	0.038	0	480	7602	0
	As	75		4.966	ug/L	0.069	1	8965	12849	0
	Se	82		0.317	ug/L	0.047	14	-12	35	18
	Se	78		0.059	ug/L	0.209	354	9091	5808	0
[	Mo	98		3.902	ug/L	0.053	1	27	18120	1
	Y	89			ug/L			305272	291365	1
	Kr	83			ug/L			263	193	6
[>	In	115	U		ug/L			454742	299592	0
	Ag	107		0.024	ug/L	0.003	11	46	261	10
	Cd	111	✓	0.059	ug/L	0.030	50	208	276	25
	Cd	114		0.024	ug/L	0.002	8	18	143	7
	Sb	121		0.117	ug/L	0.006	5	144	1111	5
	Sb	123		0.113	ug/L	0.000	0	121	823	1
	Ba	135		9.348	ug/L	0.053	0	20	18106	0
[	Ba	137		9.499	ug/L	0.028	0	29	31173	1
[>	Tb	159	U		ug/L			437751	357856	0
	Tl	205		0.008	ug/L	0.001	13	243	416	7
	Pb	208	✓	0.256	ug/L	0.002	0	830	9801	0
	Bi	209			ug/L			369705	288991	0
	Th	232		0.125	ug/L	0.005	3	282	5759	4
[	U	238		0.030	ug/L	0.001	2	35	1471	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QK56 C REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, March 30, 2010 19:57:02
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			287408	489968	1
[	Be	9	0.011	ug/L	0.007	67	5	16	28
	C	13		mg/L			6024	8321	0
	Cl	37		mg/L			3017573	2233202	0
[>	Sc	45		ug/L			274724	244021	0
[	V-1	51	2.557	ug/L	0.041	1	1520	30101	1
[	V	51	2.388	ug/L	0.027	1	8388	34846	0
[	Cr	52	0.807	ug/L	0.012	1	5986	13483	0
[	Cr	53	0.402	ug/L	0.055	13	2872	3041	2
[	Mn	55	551.966	ug/L	1.216	0	440	9590506	0
[	Co	59	0.530	ug/L	0.015	2	54	7359	2
[>	Ge	72		ug/L			407406	267663	0
[	Ni	60	5.412	ug/L	0.090	1	87	11322	1
[	Ni	62	11.055	ug/L	0.274	2	71	3580	2
[	Cu	63	1.023	ug/L	0.027	2	210	5141	2
[	Cu	65	V 0.414	ug/L	0.031	7	101	1056	7
[	Zn	66	24.162	ug/L	0.381	1	205	39365	1
[	Zn	67	21.189	ug/L	0.384	1	217	5998	2
[	Zn	68	23.008	ug/L	0.215	0	6749	31105	1
[	As-1	75	1.081	ug/L	0.011	1	480	1912	1
[	As	75	0.795	ug/L	0.024	3	8965	7069	0
[	Se	82	0.475	ug/L	0.021	4	-12	59	5
[	Se	78	-0.563	ug/L	0.107	19	9091	5766	0
[	Mo	98	1.757	ug/L	0.040	2	27	8429	2
	Y	89		ug/L			305272	250984	0
	Kr	83		ug/L			263	188	1
[>	In	115		ug/L			454742	307494	0
[	Ag	107	V 0.007	ug/L	0.001	22	46	95	14
[	Cd	111	V -0.065	ug/L	0.031	47	208	-15	464
[	Cd	114	0.007	ug/L	0.001	13	18	55	9
[	Sb	121	0.049	ug/L	0.003	6	144	538	5
[	Sb	123	0.045	ug/L	0.002	3	121	388	2
[	Ba	135	11.049	ug/L	0.113	1	20	21964	1
[	Ba	137	11.199	ug/L	0.073	0	29	37719	0
[>	Tb	159		ug/L			437751	365442	0
[	Tl	205	V 0.005	ug/L	0.001	19	243	327	6
[	Pb	208	V 0.051	ug/L	0.006	11	830	2531	7
[	Bi	209		ug/L			369705	292626	1
[	Th	232	0.018	ug/L	0.004	23	282	1040	17
[	U	238	0.007	ug/L	0.000	1	35	356	2

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QK56 D REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, March 30, 2010 20:03:52
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

rerun Cr

	Analyte	Mass	Conc. Mean		Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6			ug/L			287408	492888	1
[	Be	9	0.033		ug/L	0.021	65	5	30	43
	C	13			mg/L			6024	7716	2
	Cl	37			mg/L			3017573	1853878	5
[>	Sc	45			ug/L			274724	235186	1
|	V-1	51	8.523		ug/L	0.015	0	1520	93660	1
|	V	51	8.104		ug/L	0.021	0	8388	96785	1
|	Cr	52	1.281		ug/L	0.035	2	5986	17613	2
|	Cr	53	0.452		ug/L	0.008	1	2872	2989	1
|	Mn	55	108.681		ug/L	1.367	1	440	1820059	0
[	Co	59	0.926		ug/L	0.007	0	54	12352	1
[>	Ge	72			ug/L			407406	256544	0
|	Ni	60	0.841		ug/L	0.001	0	87	1732	0
|	Ni	62	6.522		ug/L	0.042	0	71	2043	1
|	Cu	63	4.276		ug/L	0.032	0	210	20177	0
|	Cu	65	3.846		ug/L	0.053	1	101	8869	2
|	Zn	66	3.048		ug/L	0.060	1	205	4872	1
|	Zn	67	3.120		ug/L	0.070	2	217	963	2
|	Zn	68	2.660		ug/L	0.074	2	6749	7204	0
|	As-1	75	3.485		ug/L	0.035	0	480	5235	0
|	As	75	3.275		ug/L	0.073	2	8965	10302	0
|	Se	82	0.190		ug/L	0.084	43	-12	18	63
|	Se	78	-0.489		ug/L	0.115	23	9091	5552	0
[	Mo	98	1.938		ug/L	0.017	0	27	8908	1
	Y	89			ug/L			305272	271310	1
	Kr	83			ug/L			263	180	3
[>	In	115			ug/L			454742	300917	1
|	Ag	107		0.025	ug/L	0.001	3	46	272	3
|	Cd	111		0.073	ug/L	0.020	27	208	310	16
|	Cd	114		0.014	ug/L	0.002	14	18	89	12
|	Sb	121		0.108	ug/L	0.005	4	144	1034	3
|	Sb	123		0.107	ug/L	0.003	2	121	787	3
|	Ba	135		3.990	ug/L	0.096	2	20	7769	1
[	Ba	137		4.001	ug/L	0.030	0	29	13201	1
[>	Tb	159			ug/L			437751	356557	1
|	Tl	205		0.009	ug/L	0.001	8	243	432	5
|	Pb	208		0.392	ug/L	0.004	1	830	14575	1
|	Bi	209			ug/L			369705	294358	1
|	Th	232	0.177		ug/L	0.005	2	282	8016	3
[	U	238	0.043		ug/L	0.001	1	35	2087	2

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QK56 E REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, March 30, 2010 20:10:42
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

	Analyte	Mass		Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
⌈>	Li	6			ug/L			287408	482280	1
⌊	Be	9		0.004	ug/L	0.004	96	5	12	20
	C	13			mg/L			6024	7647	0
	Cl	37			mg/L			3017573	2377654	0
⌈>	Sc	45			ug/L			274724	219785	1
⌈	V-1	51		7.603	ug/L	0.044	0	1520	78216	1
⌊	V	51		7.566	ug/L	0.028	0	8388	84896	1
⌈	Cr	52	U	0.224	ug/L	0.010	4	5986	6830	0
⌊	Cr	53		0.557	ug/L	0.050	9	2872	2907	1
⌈	Mn	55		49.314	ug/L	0.149	0	440	772089	1
⌊	Co	59		2.066	ug/L	0.014	0	54	25697	2
⌈>	Ge	72			ug/L			407406	257827	2
⌈	Ni	60		3.082	ug/L	0.034	1	87	6233	0
⌊	Ni	62		10.064	ug/L	0.780	7	71	3142	6
⌈	Cu	63		3.419	ug/L	0.049	1	210	16237	0
⌊	Cu	65		2.754	ug/L	0.038	1	101	6399	0
⌈	Zn	66		2.222	ug/L	0.081	3	205	3603	2
⌊	Zn	67		2.299	ug/L	0.121	5	217	749	4
⌈	Zn	68		1.737	ug/L	0.199	11	6749	6208	1
⌈	As-1	75		2.241	ug/L	0.047	2	480	3491	0
⌊	As	75		2.053	ug/L	0.126	6	8965	8606	0
⌈	Se	82		1.568	ug/L	0.038	2	-12	206	2
⌊	Se	78		0.929	ug/L	0.360	38	9091	6080	0
⌊	Mo	98		6.604	ug/L	0.005	0	27	30471	1
	Y	89			ug/L			305272	239526	1
	Kr	83			ug/L			263	181	0
⌈>	In	115			ug/L			454742	298853	1
⌈	Ag	107	U	0.005	ug/L	0.001	20	46	74	11
⌊	Cd	111	U	-0.043	ug/L	0.009	21	208	36	59
⌈	Cd	114		0.018	ug/L	0.002	10	18	113	7
⌊	Sb	121		0.175	ug/L	0.007	4	144	1612	5
⌈	Sb	123		0.178	ug/L	0.003	1	121	1246	2
⌊	Ba	135		8.634	ug/L	0.097	1	20	16684	1
⌊	Ba	137		8.723	ug/L	0.165	1	29	28561	3
⌈>	Tb	159			ug/L			437751	357271	2
⌈	Tl	205	U	0.023	ug/L	0.000	1	243	802	1
⌊	Pb	208	U	0.048	ug/L	0.002	3	830	2368	0
⌈	Bi	209			ug/L			369705	286944	1
⌊	Th	232		0.022	ug/L	0.000	1	282	1209	2
⌊	U	238		0.065	ug/L	0.000	0	35	3160	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QK72 B REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, March 30, 2010 20:17:33
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

	Analyte	Mass	Conc. Mean		Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6			ug/L			287408	410992	1
[	Be	9	0.023		ug/L	0.007	30	5	20	17
	C	13			mg/L			6024	8337	2
	Cl	37			mg/L			3017573	10308860	1
[>	Sc	45			ug/L			274724	248824	0
[	V-1	51	1.215		ug/L	0.056	4	1520	15305	4
[	V	51	3.712		ug/L	0.102	2	8388	51020	2
[	Cr	52	0.764		ug/L	0.012	1	5986	13301	1
[	Cr	53	8.326		ug/L	0.230	2	2872	12924	1
[	Mn	55	1522.812		ug/L	7.379	0	440	26978942	0
[	Co	59	0.968		ug/L	0.011	1	54	13658	0
[>	Ge	72			ug/L			407406	266728	1
[	Ni	60	5.798		ug/L	0.182	3	87	12081	2
[	Ni	62	22.573		ug/L	1.656	7	71	7238	7
[	Cu	63	5.853		ug/L	0.205	3	210	28667	4
[	Cu	65	0.515		ug/L	0.031	6	101	1291	3
[	Zn	66	6.479		ug/L	0.084	1	205	10616	0
[	Zn	67	6.631		ug/L	0.203	3	217	1967	1
[	Zn	68	6.724		ug/L	0.193	2	6749	12187	3
[	As-1	75	1.858		ug/L	0.067	3	480	3049	3
[	As	75	0.596		ug/L	0.161	27	8965	6751	4
[	Se	82	6.162		ug/L	0.274	4	-12	861	2
[	Se	78	2.019		ug/L	0.463	22	9091	6690	2
[	Mo	98	7.929		ug/L	0.150	1	27	37838	0
	Y	89			ug/L			305272	256421	1
	Kr	83			ug/L			263	320	8
[>	In	115			ug/L			454742	295456	1
[	Ag	107		U 0.013	ug/L	0.002	18	46	153	14
[	Cd	111	-1.031		ug/L	0.171	16	208	-2243	16
[	Cd	114		J 0.015	ug/L	0.001	6	18	92	6
[	Sb	121	0.104		ug/L	0.003	3	144	988	4
[	Sb	123	0.104		ug/L	0.006	6	121	753	4
[	Ba	135	28.552		ug/L	0.296	1	20	54512	0
[	Ba	137	29.104		ug/L	0.115	0	29	94157	0
[>	Tb	159			ug/L			437751	340157	0
[	Tl	205		U -0.002	ug/L	0.001	46	243	138	17
[	Pb	208		J 0.151	ug/L	0.003	2	830	5747	2
[	Bi	209			ug/L			369705	256091	1
[	Th	232	0.013		ug/L	0.001	9	282	762	7
[	U	238	0.008		ug/L	0.001	7	35	380	7

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QK72 C REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, March 30, 2010 20:24:24
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
⌈>	Li	6		ug/L			287408	454607	0
⌊	Be	9	-0.002	ug/L	0.001	52	5	7	9
	C	13		mg/L			6024	7850	0
	Cl	37		mg/L			3017573	2651673	1
⌈>	Sc	45		ug/L			274724	226667	1
|	V-1	51	23.673	ug/L	0.183	0	1520	248497	1
|	V	51	23.711	ug/L	0.182	0	8388	259577	1
|	Cr	52	V 0.253	ug/L	0.019	7	5986	7317	0
|	Cr	53	1.771	ug/L	0.052	2	2872	4370	0
|	Mn	55	14.393	ug/L	0.335	2	440	232618	2
⌊	Co	59	0.780	ug/L	0.005	0	54	10029	1
⌈>	Ge	72		ug/L			407406	257365	1
|	Ni	60	3.004	ug/L	0.119	3	87	6065	1
|	Ni	62	18.827	ug/L	0.949	5	71	5830	4
|	Cu	63	4.250	ug/L	0.055	1	210	20120	1
|	Cu	65	3.522	ug/L	0.044	1	101	8151	0
|	Zn	66	4.242	ug/L	0.031	0	205	6752	1
|	Zn	67	5.571	ug/L	0.087	1	217	1617	2
|	Zn	68	3.680	ug/L	0.052	1	6749	8364	1
|	As-1	75	2.061	ug/L	0.055	2	480	3229	1
|	As	75	2.179	ug/L	0.105	4	8965	8771	1
|	Se	82	2.459	ug/L	0.187	7	-12	327	6
|	Se	78	3.133	ug/L	0.260	8	9091	6848	0
⌊	Mo	98	5.670	ug/L	0.042	0	27	26114	1
	Y	89		ug/L			305272	233055	1
	Kr	83		ug/L			263	195	3
⌈>	In	115		ug/L			454742	293016	0
|	Ag	107	V 0.005	ug/L	0.001	16	46	74	10
|	Cd	111	V -0.052	ug/L	0.019	36	208	14	300
|	Cd	114	0.017	ug/L	0.002	12	18	103	10
|	Sb	121	0.130	ug/L	0.005	3	144	1197	4
|	Sb	123	0.128	ug/L	0.005	3	121	901	3
|	Ba	135	12.198	ug/L	0.093	0	20	23107	1
⌊	Ba	137	12.441	ug/L	0.023	0	29	39927	0
⌈>	Tb	159		ug/L			437751	343551	0
|	Tl	205	V 0.044	ug/L	0.001	2	243	1329	1
|	Pb	208	V 0.036	ug/L	0.002	4	830	1891	3
|	Bi	209		ug/L			369705	271604	0
|	Th	232	0.008	ug/L	0.001	16	282	555	10
⌊	U	238	0.050	ug/L	0.001	1	35	2348	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QK72 D REN
Sample Dil Factor: 5
Comments:
Sample Date/Time: Tuesday, March 30, 2010 20:31:12
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			287408	413908	0
[	Be	9	-0.003	ug/L	0.008	249	5	6	65
	C	13		mg/L			6024	6246	0
	Cl	37		mg/L			3017573	13825087	1
[>	Sc	45		ug/L			274724	215520	1
[	V-1	51	0.186	ug/L	0.109	58	1520	3045	35
[	V	51	4.433	ug/L	0.299	6	8388	51479	5
[	Cr	52	✓ 0.473	ug/L	0.033	6	5986	8918	2
[	Cr	53	13.268	ug/L	0.779	5	2872	16496	4
[	Mn	55	976.509	ug/L	4.592	0	440	14984715	0
[	Co	59	0.438	ug/L	0.010	2	54	5378	1
[>	Ge	72		ug/L			407406	260371	1
[	Ni	60	2.720	ug/L	0.014	0	87	5563	2
[	Ni	62	22.285	ug/L	0.292	1	71	6975	2
[	Cu	63	6.317	ug/L	0.116	1	210	30194	3
[	Cu	65	✓ 0.324	ug/L	0.012	3	101	818	2
[	Zn	66	2.925	ug/L	0.065	2	205	4750	1
[	Zn	67	5.170	ug/L	0.119	2	217	1528	2
[	Zn	68	4.294	ug/L	0.205	4	6749	9153	1
[	As-1	75	1.976	ug/L	0.179	9	480	3143	6
[	As	75	0.506	ug/L	0.188	37	8965	6457	2
[	Se	82	7.023	ug/L	0.193	2	-12	960	2
[	Se	78	2.429	ug/L	0.294	12	9091	6677	1
[	Mo	98	1.240	ug/L	0.033	2	27	5788	1
	Y	89		ug/L			305272	250143	0
	Kr	83		ug/L			263	369	1
[>	In	115	✓	ug/L			454742	295348	1
[	Ag	107	0.008	ug/L	0.002	24	46	102	17
[	Cd	111	-0.780	ug/L	0.117	15	208	-1663	15
[	Cd	114	0.005	ug/L	0.002	39	18	41	27
[	Sb	121	✓ 0.015	ug/L	0.002	11	144	223	5
[	Sb	123	0.014	ug/L	0.001	7	121	169	4
[	Ba	135	92.827	ug/L	1.134	1	20	177131	0
[	Ba	137	93.597	ug/L	1.531	1	29	302623	0
[>	Tb	159		ug/L			437751	335637	0
[	Tl	205	✓ -0.003	ug/L	0.001	42	243	122	21
[	Pb	208	✓ 0.113	ug/L	0.012	10	830	4408	8
[	Bi	209		ug/L			369705	253381	0
[	Th	232	0.001	ug/L	0.000	29	282	261	4
[	U	238	0.005	ug/L	0.000	2	35	268	2

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV8
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, March 30, 2010 20:37:58
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			287408	455476	0
[	Be	9	44.172	ug/L	0.555	1	5	26023	1
	C	13		mg/L			6024	5567	2
	Cl	37		mg/L			3017573	2398868	3
[>	Sc	45		ug/L			274724	186486	0
[	V-1	51	48.128	ug/L	0.269	0	1520	414612	0
[	V	51	48.418	ug/L	0.418	0	8388	430204	1
[	Cr	52	47.715	ug/L	0.177	0	5986	372920	0
[	Cr	53	48.615	ug/L	0.592	1	2872	47126	1
[	Mn	55	47.485	ug/L	0.594	1	440	630810	1
[	Co	59	45.051	ug/L	0.623	1	54	474740	1
[>	Ge	72		ug/L			407406	254399	0
[	Ni	60	49.773	ug/L	0.421	0	87	98533	1
[	Ni	62	57.110	ug/L	0.181	0	71	17396	0
[	Cu	63	49.504	ug/L	0.505	1	210	230256	0
[	Cu	65	48.251	ug/L	0.421	0	101	109603	1
[	Zn	66	50.236	ug/L	0.387	0	205	77653	0
[	Zn	67	48.697	ug/L	0.620	1	217	12925	0
[	Zn	68	48.668	ug/L	0.269	0	6749	57833	0
[	As-1	75	50.937	ug/L	0.236	0	480	71804	0
[	As	75	50.312	ug/L	0.332	0	8965	76565	1
[	Se	82	56.142	ug/L	0.076	0	-12	7554	0
[	Se	78	53.791	ug/L	0.345	0	9091	24444	0
[	Mo	98	54.971	ug/L	0.045	0	27	250144	0
	Y	89		ug/L			305272	222872	0
	Kr	83		ug/L			263	202	4
[>	In	115		ug/L			454742	289092	0
[	Ag	107	51.899	ug/L	0.344	0	46	477663	0
[	Cd	111	51.993	ug/L	0.375	0	208	117681	0
[	Cd	114	52.288	ug/L	0.342	0	18	279996	0
[	Sb	121	50.706	ug/L	0.119	0	144	424989	0
[	Sb	123	50.349	ug/L	0.376	0	121	319656	1
[	Ba	135	50.318	ug/L	0.320	0	20	93996	0
[	Ba	137	51.174	ug/L	0.186	0	29	161981	0
[>	Tb	159		ug/L			437751	336102	1
[	Tl	205	47.388	ug/L	0.063	0	243	1190503	1
[	Pb	208	49.527	ug/L	0.129	0	830	1655353	1
[	Bi	209		ug/L			369705	277892	1
[	Th	232	53.520	ug/L	0.754	1	282	2216107	0
[	U	238	54.225	ug/L	0.526	0	35	2441850	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB8
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, March 30, 2010 20:45:26
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			287408	473540	1
[	Be	9	0.018	ug/L	0.007	38	5	20	21
	C	13		mg/L			6024	5716	1
	Cl	37		mg/L			3017573	2326272	0
[>	Sc	45		ug/L			274724	195960	1
[	V-1	51	0.065	ug/L	0.030	45	1520	1668	14
[	V	51	0.127	ug/L	0.048	37	8388	7151	6
[	Cr	52	-0.035	ug/L	0.018	49	5986	3984	3
[	Cr	53	0.158	ug/L	0.151	95	2872	2203	7
[	Mn	55	0.091	ug/L	0.038	41	440	1579	33
[	Co	59	0.022	ug/L	0.015	70	54	280	60
[>	Ge	72		ug/L			407406	263728	1
[	Ni	60	0.013	ug/L	0.011	84	87	84	29
[	Ni	62	4.992	ug/L	0.143	2	71	1619	4
[	Cu	63	0.188	ug/L	0.022	11	210	1043	10
[	Cu	65	0.035	ug/L	0.008	24	101	147	14
[	Zn	66	0.048	ug/L	0.022	46	205	209	18
[	Zn	67	0.120	ug/L	0.035	29	217	173	6
[	Zn	68	-0.505	ug/L	0.151	29	6749	3790	3
[	As-1	75	0.091	ug/L	0.020	22	480	444	7
[	As	75	0.125	ug/L	0.039	31	8965	5985	0
[	Se	82	0.151	ug/L	0.120	79	-12	13	125
[	Se	78	0.413	ug/L	0.161	39	9091	6034	0
[	Mo	98	0.045	ug/L	0.027	60	27	231	56
	Y	89		ug/L			305272	232767	1
	Kr	83		ug/L			263	188	3
[>	In	115		ug/L			454742	304419	1
[	Ag	107	0.034	ug/L	0.016	48	46	358	45
[	Cd	111	0.026	ug/L	0.022	83	208	201	27
[	Cd	114	0.023	ug/L	0.016	70	18	142	65
[	Sb	121	0.173	ug/L	0.074	43	144	1626	41
[	Sb	123	0.169	ug/L	0.074	43	121	1219	42
[	Ba	135	0.033	ug/L	0.012	35	20	79	31
[	Ba	137	0.034	ug/L	0.018	53	29	132	47
[>	Tb	159		ug/L			437751	353150	1
[	Tl	205	0.039	ug/L	0.018	47	243	1224	40
[	Pb	208	0.045	ug/L	0.024	53	830	2256	37
[	Bi	209		ug/L			369705	297655	2
[	Th	232	0.056	ug/L	0.024	43	282	2653	40
[	U	238	0.030	ug/L	0.020	64	35	1467	63

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QK91 MB1 REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, March 30, 2010 20:52:51
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

	Analyte	Mass		Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
⌈>	Li	6			ug/L			287408	507991	1
⌊	Be	9		-0.007	ug/L	0.007	95	5	5	75
	C	13			mg/L			6024	6665	0
	Cl	37			mg/L			3017573	2370344	0
⌈>	Sc	45			ug/L			274724	214234	0
⌈	V-1	51		0.070	ug/L	0.019	26	1520	1880	9
⌊	V	51		0.014	ug/L	0.015	101	8388	6685	1
⌈	Cr	52	U	0.025	ug/L	0.012	45	5986	4893	2
⌊	Cr	53		-0.141	ug/L	0.089	62	2872	2089	4
⌈	Mn	55		0.079	ug/L	0.005	6	440	1553	4
⌊	Co	59		0.021	ug/L	0.001	6	54	297	5
⌈>	Ge	72			ug/L			407406	284148	0
⌈	Ni	60	U	0.007	ug/L	0.002	27	87	75	5
⌊	Ni	62		3.739	ug/L	0.231	6	71	1318	5
⌈	Cu	63	U	0.170	ug/L	0.012	7	210	1029	5
⌊	Cu	65		0.054	ug/L	0.006	10	101	208	7
⌈	Zn	66		0.678	ug/L	0.020	3	205	1312	3
⌊	Zn	67		0.667	ug/L	0.024	3	217	347	1
⌈	Zn	68		-0.023	ug/L	0.072	307	6749	4677	1
⌈	As-1	75	U	0.065	ug/L	0.018	27	480	437	5
⌊	As	75		-0.092	ug/L	0.037	40	8965	6107	0
⌈	Se	82		0.090	ug/L	0.040	44	-12	5	118
⌊	Se	78		-0.448	ug/L	0.098	21	9091	6166	0
⌊	Mo	98		0.040	ug/L	0.002	5	27	220	4
	Y	89			ug/L			305272	252180	1
	Kr	83			ug/L			263	198	3
⌈>	In	115			ug/L			454742	333513	0
⌈	Ag	107	U	0.008	ug/L	0.003	36	46	123	26
⌈	Cd	111	U	0.003	ug/L	0.005	160	208	161	8
⌊	Cd	114		0.005	ug/L	0.001	23	18	44	15
⌈	Sb	121		0.042	ug/L	0.009	21	144	510	17
⌊	Sb	123		0.036	ug/L	0.010	27	121	349	20
⌈	Ba	135		0.061	ug/L	0.006	10	20	145	9
⌊	Ba	137		0.060	ug/L	0.003	4	29	240	4
⌈>	Tb	159			ug/L			437751	380488	0
⌈	Tl	205	U	0.007	ug/L	0.005	71	243	399	32
⌊	Pb	208	U	0.015	ug/L	0.004	28	830	1277	11
⌈	Bi	209			ug/L			369705	317170	0
⌈	Th	232		0.016	ug/L	0.005	31	282	1005	23
⌊	U	238		0.004	ug/L	0.002	43	35	235	36

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QK91 MB1SPK REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, March 30, 2010 20:59:36
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
⌈>	Li	6		ug/L			287408	505381	0
⌊	Be	9	22.239	ug/L	0.283	1	5	14541	1
	C	13		mg/L			6024	6849	1
	Cl	37		mg/L			3017573	2392546	0
⌈>	Sc	45		ug/L			274724	213784	0
⌈	V-1	51	25.129	ug/L	0.246	0	1520	248722	0
⌊	V	51	24.932	ug/L	0.301	1	8388	257098	0
⌈	Cr	52	25.244	ug/L	0.191	0	5986	228365	1
⌊	Cr	53	24.643	ug/L	0.438	1	2872	28483	0
⌈	Mn	55	24.760	ug/L	0.058	0	440	377221	0
⌊	Co	59	23.640	ug/L	0.453	1	54	285586	1
⌈>	Ge	72		ug/L			407406	286448	0
⌈	Ni	60	26.481	ug/L	0.135	0	87	59056	1
⌊	Ni	62	29.357	ug/L	0.518	1	71	10094	2
⌈	Cu	63	27.123	ug/L	0.207	0	210	142121	1
⌊	Cu	65	26.250	ug/L	0.099	0	101	67171	0
⌈	Zn	66	82.379	ug/L	1.321	1	205	143281	0
⌊	Zn	67	74.559	ug/L	0.698	0	217	22203	1
⌈	Zn	68	79.488	ug/L	0.386	0	6749	103354	0
⌈	As-1	75	26.719	ug/L	0.139	0	480	42571	0
⌊	As	75	25.523	ug/L	0.164	0	8965	46839	0
⌈	Se	82	88.671	ug/L	1.156	1	-12	13439	1
⌊	Se	78	82.663	ug/L	0.998	1	9091	38864	0
⌊	Mo	98	0.031	ug/L	0.006	18	27	178	16
	Y	89		ug/L			305272	252426	0
	Kr	83		ug/L			263	188	3
⌈>	In	115		ug/L			454742	333053	0
⌈	Ag	107	25.766	ug/L	0.179	0	46	273212	0
⌈	Cd	111	26.565	ug/L	0.516	1	208	69338	1
⌊	Cd	114	26.530	ug/L	0.176	0	18	163669	0
⌈	Sb	121	0.016	ug/L	0.002	14	144	257	9
⌊	Sb	123	0.016	ug/L	0.005	30	121	206	17
⌈	Ba	135	25.700	ug/L	0.217	0	20	55318	1
⌊	Ba	137	26.021	ug/L	0.117	0	29	94899	0
⌈>	Tb	159		ug/L			437751	381144	0
⌈	Tl	205	24.651	ug/L	0.095	0	243	702382	0
⌊	Pb	208	25.828	ug/L	0.124	0	830	979317	0
⌈	Bi	209		ug/L			369705	323692	0
⌊	Th	232	25.446	ug/L	0.085	0	282	1195074	0
⌊	U	238	26.195	ug/L	0.272	1	35	1337799	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QK91 B-L REN
Sample Dil Factor: 10
Comments:
Sample Date/Time: Tuesday, March 30, 2010 21:06:21
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
⌈>	Li	6		ug/L			287408	498173	0
⌊	Be	9	0.014	ug/L	0.002	16	5	19	7
	C	13		mg/L			6024	5384	1
	Cl	37		mg/L			3017573	2267999	0
⌈>	Sc	45		ug/L			274724	225948	0
|	V-1	51	2.010	ug/L	0.002	0	1520	22173	0
|	V	51	1.880	ug/L	0.026	1	8388	26867	0
|	Cr	52	0.291	ug/L	0.014	4	5986	7652	1
|	Cr	53	V 0.003	ug/L	0.067	2181	2872	2365	2
|	Mn	55	31.153	ug/L	0.423	1	440	501505	0
⌊	Co	59	0.153	ug/L	0.003	1	54	1994	2
⌈>	Ge	72		ug/L			407406	279601	0
|	Ni	60	V 0.197	ug/L	0.023	11	87	488	9
|	Ni	62	3.425	ug/L	0.088	2	71	1192	2
|	Cu	63	0.828	ug/L	0.007	0	210	4376	0
|	Cu	65	0.700	ug/L	0.025	3	101	1815	3
|	Zn	66	1.179	ug/L	0.051	4	205	2140	3
|	Zn	67	1.241	ug/L	0.007	0	217	507	0
|	Zn	68	0.525	ug/L	0.087	16	6749	5267	1
|	As-1	75	0.713	ug/L	0.024	3	480	1430	2
|	As	75	0.545	ug/L	0.046	8	8965	6998	0
|	Se	82	0.091	ug/L	0.073	79	-12	5	210
|	Se	78	-0.505	ug/L	0.137	27	9091	6045	0
⌊	Mo	98	0.303	ug/L	0.005	1	27	1531	1
	Y	89		ug/L			305272	252951	0
	Kr	83		ug/L			263	191	2
⌈>	In	115		ug/L			454742	326453	1
|	Ag	107	V 0.024	ug/L	0.003	11	46	279	8
|	Cd	111	V 0.019	ug/L	0.009	48	208	198	11
|	Cd	114	V 0.017	ug/L	0.003	16	18	118	14
|	Sb	121	0.018	ug/L	0.002	10	144	277	5
|	Sb	123	0.020	ug/L	0.006	30	121	227	17
|	Ba	135	1.104	ug/L	0.018	1	20	2343	2
⌊	Ba	137	1.087	ug/L	0.023	2	29	3904	2
⌈>	Tb	159		ug/L			437751	374557	0
|	Tl	205	V 0.023	ug/L	0.005	20	243	844	14
|	Pb	208	V 0.070	ug/L	0.005	7	830	3332	5
|	Bi	209		ug/L			369705	314736	0
|	Th	232	0.068	ug/L	0.004	6	282	3381	5
⌊	U	238	0.023	ug/L	0.003	12	35	1174	11

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QK91 B REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, March 30, 2010 21:14:07
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

	Analyte	Mass	Conc. Mean		Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
⌈>	Li	6			ug/L			287408	517734	4
⌊	Be	9	0.041		ug/L	0.011	27	5	38	24
	C	13			mg/L			6024	7005	0
	Cl	37			mg/L			3017573	1955333	0
⌈>	Sc	45			ug/L			274724	272489	2
|	V-1	51	8.315		ug/L	0.124	1	1520	105923	3
|	V	51	7.986		ug/L	0.099	1	8388	110617	3
|	Cr	52	1.478		ug/L	0.019	1	5986	22632	3
|	Cr	53	0.893		ug/L	0.135	15	2872	4058	1
|	Mn	55	135.696		ug/L	2.250	1	440	2633494	3
⌊	Co	59	0.580		ug/L	0.011	1	54	8984	1
⌈>	Ge	72			ug/L			407406	278247	2
|	Ni	60	0.883		ug/L	0.021	2	87	1971	4
|	Ni	62	4.575		ug/L	0.272	5	71	1569	7
|	Cu	63	3.546		ug/L	0.015	0	210	18172	2
|	Cu	65	3.228		ug/L	0.051	1	101	8086	3
|	Zn	66	4.994		ug/L	0.037	0	205	8569	2
|	Zn	67	4.905		ug/L	0.104	2	217	1557	3
|	Zn	68	4.576		ug/L	0.102	2	6749	10122	1
|	As-1	75	3.270		ug/L	0.009	0	480	5348	2
|	As	75	3.004		ug/L	0.072	2	8965	10756	1
|	Se	82	0.158		ug/L	0.083	52	-12	14	80
|	Se	78	-0.783		ug/L	0.377	48	9091	5908	0
⌊	Mo	98	1.503		ug/L	0.028	1	27	7500	4
	Y	89			ug/L			305272	290533	2
	Kr	83			ug/L			263	190	3
⌈>	In	115			ug/L			454742	324932	3
|	Ag	107		V 0.033	ug/L	0.004	11	46	377	11
|	Cd	111		V 0.062	ug/L	0.011	17	208	305	11
|	Cd	114	0.017		ug/L	0.001	8	18	115	9
|	Sb	121	0.094		ug/L	0.008	8	144	984	3
|	Sb	123	0.085		ug/L	0.007	8	121	693	3
|	Ba	135	5.308		ug/L	0.117	2	20	11152	1
⌊	Ba	137	5.351		ug/L	0.105	1	29	19049	2
⌈>	Tb	159			ug/L			437751	381083	2
|	Tl	205		V 0.013	ug/L	0.001	9	243	592	5
|	Pb	208		V 0.272	ug/L	0.004	1	830	11013	2
|	Bi	209			ug/L			369705	315429	3
|	Th	232	0.173		ug/L	0.005	2	282	8354	3
⌊	U	238	0.035		ug/L	0.000	1	35	1838	3

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QK91 BDUP REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, March 30, 2010 21:21:53
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

	Analyte	Mass	Conc. Mean		Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6			ug/L			287408	533161	0
[	Be	9	0.051		ug/L	0.014	28	5	45	22
	C	13			mg/L			6024	7327	0
	Cl	37			mg/L			3017573	2059158	6
[>	Sc	45			ug/L			274724	279022	1
[	V-1	51	8.342		ug/L	0.124	1	1520	108804	1
[	V	51	7.980		ug/L	0.111	1	8388	113195	1
[	Cr	52	1.526		ug/L	0.037	2	5986	23732	2
[	Cr	53	0.841		ug/L	0.083	9	2872	4085	1
[	Mn	55	137.573		ug/L	1.461	1	440	2733329	0
[	Co	59	0.596		ug/L	0.006	0	54	9450	0
[>	Ge	72			ug/L			407406	285451	0
[	Ni	60	0.885		ug/L	0.026	2	87	2025	2
[	Ni	62	5.275		ug/L	0.103	1	71	1848	1
[	Cu	63	3.501		ug/L	0.018	0	210	18411	0
[	Cu	65	3.220		ug/L	0.027	0	101	8273	0
[	Zn	66	1.731		ug/L	0.060	3	205	3141	3
[	Zn	67	2.155		ug/L	0.135	6	217	787	5
[	Zn	68	1.269		ug/L	0.071	5	6749	6297	1
[	As-1	75	3.266		ug/L	0.034	1	480	5480	0
[	As	75	2.868		ug/L	0.056	1	8965	10819	0
[	Se	82	0.123		ug/L	0.092	75	-12	10	139
[	Se	78	-1.383		ug/L	0.148	10	9091	5828	0
[	Mo	98	1.501		ug/L	0.007	0	27	7681	1
	Y	89			ug/L			305272	295812	0
	Kr	83			ug/L			263	190	3
[>	In	115			ug/L			454742	337265	0
[	Ag	107	U	0.024	ug/L	0.001	2	46	295	2
[	Cd	111	U	0.065	ug/L	0.025	37	208	325	19
[	Cd	114		0.011	ug/L	0.001	14	18	79	11
[	Sb	121		0.082	ug/L	0.002	3	144	904	2
[	Sb	123		0.079	ug/L	0.003	4	121	675	3
[	Ba	135		5.086	ug/L	0.079	1	20	11098	1
[	Ba	137		5.082	ug/L	0.053	1	29	18785	0
[>	Tb	159			ug/L			437751	389085	1
[	Tl	205	U	0.007	ug/L	0.001	12	243	422	4
[	Pb	208	U	0.268	ug/L	0.005	1	830	11116	0
[	Bi	209			ug/L			369705	322808	1
[	Th	232		0.145	ug/L	0.003	1	282	7196	1
[	U	238		0.030	ug/L	0.000	1	35	1573	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QK91 BSPK REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, March 30, 2010 21:28:39
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
⌈>	Li	6		ug/L			287408	544624	1
⌊	Be	9	23.004	ug/L	0.554	2	5	16206	1
	C	13		mg/L			6024	7380	1
	Cl	37		mg/L			3017573	2067828	6
⌈>	Sc	45		ug/L			274724	284377	0
⌈	V-1	51	29.285	ug/L	0.199	0	1520	385327	1
⌊	V	51	28.865	ug/L	0.264	0	8388	394610	1
⌈	Cr	52	21.900	ug/L	0.225	1	5986	264346	0
⌊	Cr	53	21.077	ug/L	0.295	1	2872	32839	1
⌈	Mn	55	166.169	ug/L	2.298	1	440	3364966	1
⌊	Co	59	19.565	ug/L	0.133	0	54	314424	0
⌈>	Ge	72		ug/L			407406	289179	0
⌈	Ni	60	28.789	ug/L	0.296	1	87	64808	1
⌊	Ni	62	32.796	ug/L	0.329	1	71	11377	0
⌈	Cu	63	31.300	ug/L	0.172	0	210	165545	0
⌊	Cu	65	30.080	ug/L	0.361	1	101	77690	0
⌈	Zn	66	84.433	ug/L	0.846	1	205	148252	0
⌊	Zn	67	77.376	ug/L	0.429	0	217	23255	1
⌈	Zn	68	81.907	ug/L	1.090	1	6749	107362	0
⌈	As-1	75	30.810	ug/L	0.537	1	480	49499	0
⌊	As	75	29.366	ug/L	0.389	1	8965	53444	0
⌈	Se	82	90.218	ug/L	1.628	1	-12	13803	1
⌊	Se	78	83.338	ug/L	0.930	1	9091	39502	0
⌊	Mo	98	1.697	ug/L	0.038	2	27	8795	2
	Y	89		ug/L			305272	303445	0
	Kr	83		ug/L			263	202	4
⌈>	In	115		ug/L			454742	342913	1
⌈	Ag	107	25.261	ug/L	0.063	0	46	275796	1
⌈	Cd	111	27.105	ug/L	0.151	0	208	72843	0
⌊	Cd	114	27.226	ug/L	0.242	0	18	172932	0
⌈	Sb	121	0.090	ug/L	0.002	2	144	1000	2
⌊	Sb	123	0.086	ug/L	0.004	4	121	740	3
⌈	Ba	135	32.069	ug/L	0.428	1	20	71061	1
⌊	Ba	137	32.512	ug/L	0.204	0	29	122085	1
⌈>	Tb	159		ug/L			437751	401846	1
⌈	Tl	205	25.111	ug/L	0.219	0	243	754325	1
⌊	Pb	208	26.587	ug/L	0.168	0	830	1062795	0
⌈	Bi	209		ug/L			369705	329754	0
⌈	Th	232	27.348	ug/L	0.070	0	282	1354125	0
⌊	U	238	28.144	ug/L	0.318	1	35	1515364	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QK91 BPOST REN 222222
Sample Dil Factor: 2 BW 3.31
Comments:
Sample Date/Time: Tuesday, March 30, 2010 21:35:26
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
⌈>	Li	6		ug/L			287408	547481	2
⌊	Be	9	22.330	ug/L	0.223	0	5	15815	1
	C	13		mg/L			6024	7401	0
	Cl	37		mg/L			3017573	2011415	5
⌈>	Sc	45		ug/L			274724	276530	0
⌈	V-1	51	28.542	ug/L	0.199	0	1520	365227	1
⌊	V	51	28.036	ug/L	0.224	0	8388	372934	1
⌈	Cr	52	21.706	ug/L	0.067	0	5986	254839	0
⌊	Cr	53	20.588	ug/L	0.155	0	2872	31261	1
⌈	Mn	55	164.211	ug/L	0.785	0	440	3233667	0
⌊	Co	59	19.386	ug/L	0.296	1	54	302967	1
⌈>	Ge	72		ug/L			407406	284736	0
⌈	Ni	60	28.055	ug/L	0.615	2	87	62184	1
⌊	Ni	62	32.059	ug/L	0.562	1	71	10952	2
⌈	Cu	63	30.132	ug/L	0.463	1	210	156924	1
⌊	Cu	65	29.230	ug/L	0.063	0	101	74341	0
⌈	Zn	66	86.574	ug/L	1.189	1	205	149672	0
⌊	Zn	67	78.077	ug/L	0.564	0	217	23103	0
⌈	Zn	68	82.845	ug/L	0.185	0	6749	106876	0
⌈	As-1	75	30.237	ug/L	0.562	1	480	47840	1
⌊	As	75	28.692	ug/L	0.308	1	8965	51561	0
⌈	Se	82	88.996	ug/L	1.862	2	-12	13407	1
⌊	Se	78	81.662	ug/L	0.724	0	9091	38241	0
⌊	Mo	98	1.581	ug/L	0.033	2	27	8072	1
	Y	89		ug/L			305272	300050	0
	Kr	83		ug/L			263	190	9
⌈>	In	115		ug/L			454742	337670	0
⌈	Ag	107	24.616	ug/L	0.247	1	46	264636	0
⌈	Cd	111	26.336	ug/L	0.505	1	208	69695	1
⌊	Cd	114	26.626	ug/L	0.282	1	18	166545	1
⌈	Sb	121	0.088	ug/L	0.006	6	144	971	5
⌊	Sb	123	0.090	ug/L	0.003	3	121	755	2
⌈	Ba	135	31.628	ug/L	0.138	0	20	69015	0
⌊	Ba	137	32.075	ug/L	0.204	0	29	118596	0
⌈>	Tb	159		ug/L			437751	399603	0
⌈	Tl	205	24.181	ug/L	0.238	0	243	722365	1
⌊	Pb	208	25.781	ug/L	0.242	0	830	1024893	1
⌈	Bi	209		ug/L			369705	327478	0
⌊	Th	232	26.331	ug/L	0.249	0	282	1296519	0
⌊	U	238	27.090	ug/L	0.216	0	35	1450467	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QK91 C REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, March 30, 2010 21:42:13
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
⌈>	Li	6		ug/L			287408	497130	2
⌊	Be	9	0.032	ug/L	0.011	35	5	30	23
	C	13		mg/L			6024	8567	0
	Cl	37		mg/L			3017573	5118486	1
⌈>	Sc	45		ug/L			274724	274294	2
|	V-1	51	2.130	ug/L	0.028	1	1520	28445	3
|	V	51	2.903	ug/L	0.051	1	8388	45802	1
|	Cr	52	0.822	ug/L	0.011	1	5986	15321	2
|	Cr	53	3.233	ug/L	0.193	5	2872	7281	0
|	Mn	55	523.335	ug/L	10.533	2	440	10218690	2
⌊	Co	59	0.882	ug/L	0.019	2	54	13722	3
⌈>	Ge	72		ug/L			407406	287697	2
|	Ni	60	2.690	ug/L	0.046	1	87	6080	2
|	Ni	62	14.653	ug/L	1.392	9	71	5081	8
|	Cu	63	3.272	ug/L	0.064	1	210	17350	2
|	Cu	65	0.506	ug/L	0.008	1	101	1369	1
|	Zn	66	3.733	ug/L	0.053	1	205	6658	1
|	Zn	67	4.033	ug/L	0.139	3	217	1351	2
|	Zn	68	3.713	ug/L	0.025	0	6749	9392	1
|	As-1	75	1.777	ug/L	0.014	0	480	3160	1
|	As	75	1.212	ug/L	0.085	7	8965	8262	0
|	Se	82	1.565	ug/L	0.015	0	-12	229	2
|	Se	78	-0.395	ug/L	0.339	85	9091	6262	0
⌊	Mo	98	2.084	ug/L	0.051	2	27	10744	3
	Y	89		ug/L			305272	279122	0
	Kr	83		ug/L			263	234	3
⌈>	In	115		ug/L			454742	329522	2
|	Ag	107	U 0.042	ug/L	0.005	12	46	477	10
|	Cd	111	U -0.365	ug/L	0.017	4	208	-787	3
|	Cd	114	0.030	ug/L	0.003	10	18	193	11
|	Sb	121	0.081	ug/L	0.004	5	144	877	2
|	Sb	123	0.084	ug/L	0.002	2	121	694	2
|	Ba	135	23.222	ug/L	0.255	1	20	49454	2
⌊	Ba	137	23.634	ug/L	0.305	1	29	85292	3
⌈>	Tb	159		ug/L			437751	385359	2
|	Tl	205	U 0.022	ug/L	0.004	18	243	846	14
|	Pb	208	U 0.188	ug/L	0.008	4	830	7914	4
|	Bi	209		ug/L			369705	297773	2
|	Th	232	0.066	ug/L	0.003	5	282	3374	6
⌊	U	238	0.036	ug/L	0.005	14	35	1868	16

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QK91 D REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, March 30, 2010 21:49:01
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
⌈>	Li	6		ug/L			287408	546521	0
⌊	Be	9	0.026	ug/L	0.004	13	5	29	8
	C	13		mg/L			6024	7738	1
	Cl	37		mg/L			3017573	1935697	6
⌈>	Sc	45		ug/L			274724	274213	0
|	V-1	51	6.867	ug/L	0.037	0	1520	88281	1
|	V	51	6.522	ug/L	0.041	0	8388	92448	1
|	Cr	52	1.071	ug/L	0.006	0	5986	18147	1
|	Cr	53	V 0.377	ug/L	0.041	10	2872	3383	1
|	Mn	55	251.638	ug/L	3.537	1	440	4913179	0
⌊	Co	59	1.308	ug/L	0.012	0	54	20323	0
⌈>	Ge	72		ug/L			407406	287817	0
|	Ni	60	2.332	ug/L	0.032	1	87	5282	1
|	Ni	62	8.581	ug/L	0.291	3	71	2999	2
|	Cu	63	1.874	ug/L	0.032	1	210	10007	1
|	Cu	65	1.367	ug/L	0.046	3	101	3583	2
|	Zn	66	3.124	ug/L	0.092	2	205	5599	2
|	Zn	67	3.296	ug/L	0.181	5	217	1132	4
|	Zn	68	2.527	ug/L	0.111	4	6749	7917	1
|	As-1	75	5.684	ug/L	0.033	0	480	9366	0
|	As	75	5.177	ug/L	0.038	0	8965	14594	0
|	Se	82	0.350	ug/L	0.078	22	-12	44	26
|	Se	78	-1.611	ug/L	0.151	9	9091	5786	0
⌊	Mo	98	3.526	ug/L	0.032	0	27	18172	0
	Y	89		ug/L			305272	290533	0
	Kr	83		ug/L			263	182	1
⌈>	In	115		ug/L			454742	335012	1
|	Ag	107	V 0.019	ug/L	0.001	4	46	235	3
|	Cd	111	V 0.028	ug/L	0.018	62	208	226	19
|	Cd	114	0.013	ug/L	0.002	12	18	96	11
|	Sb	121	0.131	ug/L	0.002	1	144	1381	0
|	Sb	123	0.132	ug/L	0.005	3	121	1056	3
|	Ba	135	5.311	ug/L	0.080	1	20	11509	1
⌊	Ba	137	5.369	ug/L	0.052	0	29	19712	1
⌈>	Tb	159		ug/L			437751	394480	0
|	Tl	205	V 0.008	ug/L	0.002	28	243	447	14
|	Pb	208	V 0.162	ug/L	0.010	6	830	7112	5
|	Bi	209		ug/L			369705	320937	0
|	Th	232	0.071	ug/L	0.002	3	282	3711	2
⌊	U	238	0.030	ug/L	0.002	5	35	1601	5

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QL06 D REN
Sample Dil Factor: 5
Comments:
Sample Date/Time: Tuesday, March 30, 2010 21:55:49
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			287408	506559	0
[	Be	9	-0.004	ug/L	0.003	80	5	7	24
	C	13		mg/L			6024	6687	0
	Cl	37		mg/L			3017573	10065467	3
[>	Sc	45		ug/L			274724	266820	3
[	V-1	51	1.178	ug/L	0.076	6	1520	15967	7
[	V	51	3.617	ug/L	0.013	0	8388	53511	3
[	Cr	52	0.483	ug/L	0.022	4	5986	11155	2
[	Cr	53	7.882	ug/L	0.277	3	2872	13266	3
[	Mn	55	589.248	ug/L	8.840	1	440	11194510	4
[	Co	59	0.470	ug/L	0.014	2	54	7131	1
[>	Ge	72		ug/L			407406	312749	3
[	Ni	60	3.012	ug/L	0.006	0	87	7392	3
[	Ni	62	16.391	ug/L	0.783	4	71	6183	8
[	Cu	63	4.610	ug/L	0.078	1	210	26513	4
[	Cu	65	0.201	ug/L	0.018	8	101	639	10
[	Zn	66	1.398	ug/L	0.050	3	205	2811	6
[	Zn	67	2.642	ug/L	0.133	5	217	1020	7
[	Zn	68	1.664	ug/L	0.065	3	6749	7437	4
[	As-1	75	0.891	ug/L	0.078	8	480	1909	10
[	As	75	-0.088	ug/L	0.097	109	8965	6731	5
[	Se	82	2.816	ug/L	0.069	2	-12	456	4
[	Se	78	-0.574	ug/L	0.289	50	9091	6731	3
[	Mo	98	2.214	ug/L	0.038	1	27	12409	5
	Y	89		ug/L			305272	304552	2
	Kr	83		ug/L			263	302	5
[>	In	115		ug/L			454742	361412	3
[	Ag	107	0.009	ug/L	0.002	18	46	145	11
[	Cd	111	-0.491	ug/L	0.061	12	208	-1223	15
[	Cd	114	0.005	ug/L	0.001	28	18	47	19
[	Sb	121	0.011	ug/L	0.002	15	144	228	7
[	Sb	123	0.009	ug/L	0.003	31	121	170	12
[	Ba	135	52.586	ug/L	0.286	0	20	122821	4
[	Ba	137	52.898	ug/L	0.554	1	29	209278	2
[>	Tb	159		ug/L			437751	411111	3
[	Tl	205	-0.003	ug/L	0.000	18	243	143	7
[	Pb	208	0.068	ug/L	0.003	4	830	3576	0
[	Bi	209		ug/L			369705	311690	2
[	Th	232	0.006	ug/L	0.001	9	282	584	2
[	U	238	0.005	ug/L	0.000	6	35	328	7

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV9
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, March 30, 2010 22:02:38
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
>	Li	6		ug/L			287408	551889	0
	Be	9	44.645	ug/L	0.587	1	5	31867	1
	C	13		mg/L			6024	5719	1
	Cl	37		mg/L			3017573	2408592	2
>	Sc	45		ug/L			274724	228669	1
	V-1	51	49.500	ug/L	0.865	1	1520	522739	0
	V	51	49.261	ug/L	0.766	1	8388	536469	0
	Cr	52	49.098	ug/L	0.605	1	5986	470356	1
	Cr	53	48.401	ug/L	0.484	0	2872	57541	2
	Mn	55	48.315	ug/L	0.683	1	440	786931	1
	Co	59	46.114	ug/L	0.627	1	54	595774	1
>	Ge	72		ug/L			407406	311666	1
	Ni	60	51.573	ug/L	0.744	1	87	125088	2
	Ni	62	56.080	ug/L	0.835	1	71	20927	0
	Cu	63	50.520	ug/L	0.368	0	210	287892	1
	Cu	65	49.468	ug/L	0.740	1	101	137648	0
	Zn	66	51.130	ug/L	0.535	1	205	96822	1
	Zn	67	49.275	ug/L	0.322	0	217	16020	0
	Zn	68	48.686	ug/L	0.844	1	6749	70871	0
	As-1	75	51.192	ug/L	0.646	1	480	88402	1
	As	75	49.984	ug/L	0.555	1	8965	93229	0
	Se	82	58.079	ug/L	0.982	1	-12	9574	1
	Se	78	53.176	ug/L	0.571	1	9091	29683	1
	Mo	98	56.621	ug/L	0.196	0	27	315657	1
	Y	89		ug/L			305272	277352	0
	Kr	83		ug/L			263	219	3
>	In	115		ug/L			454742	361125	1
	Ag	107	52.683	ug/L	0.280	0	46	605666	0
	Cd	111	52.593	ug/L	0.568	1	208	148683	0
	Cd	114	51.998	ug/L	0.630	1	18	347827	1
	Sb	121	49.706	ug/L	0.560	1	144	520429	1
	Sb	123	49.480	ug/L	0.521	1	121	392406	1
	Ba	135	49.271	ug/L	0.671	1	20	114966	1
	Ba	137	50.006	ug/L	0.740	1	29	197722	1
>	Tb	159		ug/L			437751	416749	0
	Tl	205	47.009	ug/L	0.375	0	243	1464409	1
	Pb	208	49.098	ug/L	0.190	0	830	2034810	0
	Bi	209		ug/L			369705	344350	1
	Th	232	54.108	ug/L	0.789	1	282	2778392	1
	U	238	54.926	ug/L	0.690	1	35	3067148	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB9
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, March 30, 2010 22:10:06
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			287408	555611	1
[	Be	9	0.014	ug/L	0.005	35	5	21	18
	C	13		mg/L			6024	5637	0
	Cl	37		mg/L			3017573	2381592	0
[>	Sc	45		ug/L			274724	232750	0
[	V-1	51	0.014	ug/L	0.022	158	1520	1433	15
[	V	51	-0.099	ug/L	0.043	43	8388	6021	7
[	Cr	52	-0.069	ug/L	0.018	25	5986	4408	3
[	Cr	53	-0.404	ug/L	0.097	24	2872	1965	5
[	Mn	55	0.067	ug/L	0.026	38	440	1489	28
[	Co	59	0.027	ug/L	0.016	58	54	406	51
[>	Ge	72		ug/L			407406	316194	0
[	Ni	60	0.027	ug/L	0.017	65	87	133	32
[	Ni	62	3.792	ug/L	0.145	3	71	1487	4
[	Cu	63	0.158	ug/L	0.022	13	210	1074	12
[	Cu	65	0.039	ug/L	0.018	45	101	188	27
[	Zn	66	0.057	ug/L	0.016	27	205	267	11
[	Zn	67	-0.002	ug/L	0.091	4232	217	167	18
[	Zn	68	-0.779	ug/L	0.031	4	6749	4170	0
[	As-1	75	0.049	ug/L	0.004	7	480	458	2
[	As	75	-0.275	ug/L	0.058	20	8965	6475	0
[	Se	82	0.080	ug/L	0.084	105	-12	3	353
[	Se	78	-1.246	ug/L	0.236	18	9091	6515	0
[	Mo	98	0.063	ug/L	0.018	28	27	380	28
	Y	89		ug/L			305272	281735	0
	Kr	83		ug/L			263	200	5
[>	In	115		ug/L			454742	368210	0
[	Ag	107	0.031	ug/L	0.015	48	46	406	43
[	Cd	111	0.022	ug/L	0.024	108	208	231	29
[	Cd	114	0.029	ug/L	0.017	59	18	215	55
[	Sb	121	0.168	ug/L	0.076	44	144	1912	42
[	Sb	123	0.159	ug/L	0.064	39	121	1387	37
[	Ba	135	0.045	ug/L	0.020	44	20	122	38
[	Ba	137	0.031	ug/L	0.016	51	29	150	43
[>	Tb	159		ug/L			437751	420974	0
[	Tl	205	0.036	ug/L	0.015	40	243	1369	33
[	Pb	208	0.041	ug/L	0.021	50	830	2506	34
[	Bi	209		ug/L			369705	352770	0
[	Th	232	0.057	ug/L	0.018	31	282	3240	29
[	U	238	0.032	ug/L	0.017	53	35	1851	52

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QM04 MB1 REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, March 30, 2010 22:17:33
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			287408	575954	1
[	Be	9	-0.003	ug/L	0.005	162	5	9	43
	C	13		mg/L			6024	7003	2
	Cl	37		mg/L			3017573	2370972	0
[>	Sc	45		ug/L			274724	245101	0
[	V-1	51	0.015	ug/L	0.011	77	1520	1523	8
[	V	51	-0.171	ug/L	0.009	5	8388	5510	2
[	Cr	52	-0.068	ug/L	0.006	8	5986	4648	0
[	Cr	53	-0.624	ug/L	0.055	8	2872	1800	3
[	Mn	55	0.069	ug/L	0.006	8	440	1598	6
[	Co	59	0.004	ug/L	0.000	2	54	99	1
[>	Ge	72		ug/L			407406	331765	0
[	Ni	60	0.012	ug/L	0.005	41	87	101	12
[	Ni	62	2.747	ug/L	0.222	8	71	1146	7
[	Cu	63	0.299	ug/L	0.009	3	210	1984	2
[	Cu	65	0.215	ug/L	0.007	3	101	719	3
[	Zn	66	1.219	ug/L	0.032	2	205	2620	2
[	Zn	67	1.016	ug/L	0.089	8	217	525	6
[	Zn	68	0.259	ug/L	0.018	7	6749	5867	0
[	As-1	75	0.015	ug/L	0.014	90	480	419	6
[	As	75	-0.438	ug/L	0.008	1	8965	6494	0
[	Se	82	0.041	ug/L	0.040	95	-12	-2	259
[	Se	78	-1.867	ug/L	0.027	1	9091	6554	0
[	Mo	98	0.050	ug/L	0.009	17	27	321	15
	Y	89		ug/L			305272	292734	0
	Kr	83		ug/L			263	200	3
[>	In	115		ug/L			454742	384988	1
[	Ag	107	0.007	ug/L	0.001	14	46	124	9
[	Cd	111	0.003	ug/L	0.004	113	208	186	4
[	Cd	114	0.005	ug/L	0.002	33	18	53	22
[	Sb	121	0.035	ug/L	0.009	25	144	515	18
[	Sb	123	0.034	ug/L	0.009	25	121	389	17
[	Ba	135	0.034	ug/L	0.003	9	20	101	7
[	Ba	137	0.034	ug/L	0.004	11	29	169	9
[>	Tb	159		ug/L			437751	439606	0
[	Tl	205	0.004	ug/L	0.001	37	243	375	12
[	Pb	208	0.008	ug/L	0.001	14	830	1190	3
[	Bi	209		ug/L			369705	366571	0
[	Th	232	0.017	ug/L	0.002	10	282	1183	7
[	U	238	0.005	ug/L	0.001	20	35	354	18

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QM04 MB2 REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, March 30, 2010 22:24:23
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
⌈>	Li	6		ug/L			287408	583583	0
⌊	Be	9	-0.007	ug/L	0.002	21	5	6	20
	C	13		mg/L			6024	8292	2
	Cl	37		mg/L			3017573	2373876	0
⌈>	Sc	45		ug/L			274724	249238	1
|	V-1	51	0.071	ug/L	0.045	63	1520	2186	22
|	V	51	-0.179	ug/L	0.024	13	8388	5511	3
|	Cr	52	0.070	ug/L	0.132	189	5986	6145	21
|	Cr	53	-0.683	ug/L	0.024	3	2872	1757	1
|	Mn	55	0.038	ug/L	0.003	8	440	1068	3
⌊	Co	59	0.006	ug/L	0.002	24	54	140	17
⌈>	Ge	72		ug/L			407406	335098	1
|	Ni	60	0.018	ug/L	0.005	27	87	117	9
|	Ni	62	2.128	ug/L	0.172	8	71	909	5
|	Cu	63	0.123	ug/L	0.004	3	210	926	4
|	Cu	65	0.055	ug/L	0.001	1	101	248	2
|	Zn	66	1.950	ug/L	0.017	0	205	4132	2
|	Zn	67	1.646	ug/L	0.095	5	217	747	3
|	Zn	68	0.923	ug/L	0.079	8	6749	6889	1
|	As-1	75	0.002	ug/L	0.005	228	480	399	1
|	As	75	-0.480	ug/L	0.037	7	8965	6481	0
|	Se	82	0.048	ug/L	0.046	97	-12	-1	513
|	Se	78	-2.001	ug/L	0.164	8	9091	6557	0
⌊	Mo	98	0.020	ug/L	0.003	17	27	143	15
	Y	89		ug/L			305272	296205	1
	Kr	83		ug/L			263	197	3
⌈>	In	115		ug/L			454742	390945	1
|	Ag	107	0.004	ug/L	0.000	11	46	94	7
|	Cd	111	-0.005	ug/L	0.008	147	208	163	12
|	Cd	114	0.003	ug/L	0.001	20	18	35	11
|	Sb	121	0.016	ug/L	0.004	22	144	306	12
|	Sb	123	0.013	ug/L	0.003	26	121	215	12
|	Ba	135	0.031	ug/L	0.002	5	20	96	3
⌊	Ba	137	0.033	ug/L	0.001	4	29	167	2
⌈>	Tb	159		ug/L			437751	447169	1
|	Tl	205	-0.001	ug/L	0.001	196	243	231	14
|	Pb	208	0.018	ug/L	0.001	4	830	1646	1
|	Bi	209		ug/L			369705	373176	1
|	Th	232	0.014	ug/L	0.001	8	282	1068	5
⌊	U	238	0.003	ug/L	0.001	21	35	227	18

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QM04 MB2SPK REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, March 30, 2010 22:31:12
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			287408	582899	0
[	Be	9	22.409	ug/L	0.245	1	5	16900	0
	C	13		mg/L			6024	7762	0
	Cl	37		mg/L			3017573	2383672	0
[>	Sc	45		ug/L			274724	247077	0
[	V-1	51	25.880	ug/L	0.333	1	1520	295999	0
[	V	51	25.587	ug/L	0.294	1	8388	304752	1
[	Cr	52	25.808	ug/L	0.434	1	5986	269689	0
[	Cr	53	24.927	ug/L	0.529	2	2872	33274	2
[	Mn	55	25.887	ug/L	0.330	1	440	455791	0
[	Co	59	24.487	ug/L	0.316	1	54	341882	0
[>	Ge	72		ug/L			407406	327970	0
[	Ni	60	28.074	ug/L	0.184	0	87	71681	1
[	Ni	62	29.161	ug/L	0.365	1	71	11479	1
[	Cu	63	28.128	ug/L	0.183	0	210	168750	1
[	Cu	65	27.482	ug/L	0.019	0	101	80514	0
[	Zn	66	81.667	ug/L	1.029	1	205	162640	0
[	Zn	67	72.005	ug/L	1.194	1	217	24556	2
[	Zn	68	77.582	ug/L	0.352	0	6749	115629	0
[	As-1	75	26.798	ug/L	0.033	0	480	48884	0
[	As	75	25.358	ug/L	0.107	0	8965	53327	0
[	Se	82	86.879	ug/L	0.474	0	-12	15076	0
[	Se	78	79.833	ug/L	0.637	0	9091	43225	0
[	Mo	98	0.044	ug/L	0.003	6	27	282	6
	Y	89		ug/L			305272	298804	0
	Kr	83		ug/L			263	199	5
[>	In	115		ug/L			454742	389035	0
[	Ag	107	26.163	ug/L	0.233	0	46	324048	0
[	Cd	111	26.420	ug/L	0.323	1	208	80554	0
[	Cd	114	26.379	ug/L	0.124	0	18	190099	1
[	Sb	121	0.009	ug/L	0.000	5	144	222	3
[	Sb	123	0.008	ug/L	0.002	20	121	171	7
[	Ba	135	25.946	ug/L	0.252	0	20	65231	0
[	Ba	137	26.392	ug/L	0.172	0	29	112427	0
[>	Tb	159		ug/L			437751	445983	0
[	Tl	205	24.929	ug/L	0.187	0	243	831158	0
[	Pb	208	26.210	ug/L	0.143	0	830	1162818	0
[	Bi	209		ug/L			369705	371936	0
[	Th	232	26.135	ug/L	0.059	0	282	1436232	0
[	U	238	26.808	ug/L	0.420	1	35	1601910	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QM04 MB1SPK REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, March 30, 2010 22:39:03
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
⌈>	Li	6		ug/L			287408	583760	0
⌊	Be	9	21.999	ug/L	0.237	1	5	16615	0
	C	13		mg/L			6024	7368	1
	Cl	37		mg/L			3017573	2395148	0
⌈>	Sc	45		ug/L			274724	247330	0
⌈	V-1	51	25.187	ug/L	0.239	0	1520	288437	1
⌊	V	51	24.914	ug/L	0.156	0	8388	297262	1
⌈	Cr	52	25.464	ug/L	0.293	1	5986	266445	0
⌊	Cr	53	24.624	ug/L	0.445	1	2872	32930	0
⌈	Mn	55	25.336	ug/L	0.155	0	440	446562	0
⌊	Co	59	24.488	ug/L	0.296	1	54	342244	0
⌈>	Ge	72		ug/L			407406	328446	0
⌈	Ni	60	27.729	ug/L	0.620	2	87	70894	1
⌊	Ni	62	28.481	ug/L	0.610	2	71	11228	1
⌈	Cu	63	27.509	ug/L	0.284	1	210	165262	0
⌊	Cu	65	27.162	ug/L	0.206	0	101	79689	0
⌈	Zn	66	83.068	ug/L	0.663	0	205	165667	0
⌊	Zn	67	73.960	ug/L	0.741	1	217	25253	0
⌈	Zn	68	78.912	ug/L	0.527	0	6749	117685	0
⌈	As-1	75	26.886	ug/L	0.158	0	480	49114	1
⌊	As	75	25.361	ug/L	0.259	1	8965	53409	0
⌈	Se	82	89.044	ug/L	0.563	0	-12	15475	0
⌊	Se	78	81.598	ug/L	1.307	1	9091	44080	0
⌊	Mo	98	0.022	ug/L	0.001	3	27	152	3
	Y	89		ug/L			305272	291396	1
	Kr	83		ug/L			263	196	7
⌈>	In	115		ug/L			454742	387440	0
⌈	Ag	107	25.927	ug/L	0.241	0	46	319810	0
⌈	Cd	111	26.589	ug/L	0.125	0	208	80740	0
⌊	Cd	114	26.363	ug/L	0.125	0	18	189207	1
⌈	Sb	121	0.003	ug/L	0.001	22	144	160	5
⌊	Sb	123	0.002	ug/L	0.001	66	121	120	10
⌈	Ba	135	25.685	ug/L	0.211	0	20	64309	0
⌊	Ba	137	26.126	ug/L	0.211	0	29	110840	0
⌈>	Tb	159		ug/L			437751	442453	0
⌈	Tl	205	24.631	ug/L	0.171	0	243	814695	0
⌊	Pb	208	26.016	ug/L	0.141	0	830	1145074	0
⌈	Bi	209		ug/L			369705	372476	0
⌊	Th	232	25.905	ug/L	0.193	0	282	1412302	0
⌊	U	238	26.729	ug/L	0.298	1	35	1584516	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QM04 B REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, March 30, 2010 22:46:49
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			287408	580885	0
[	Be	9	0.023	ug/L	0.008	37	5	28	23
	C	13		mg/L			6024	8182	1
	Cl	37		mg/L			3017573	2329034	0
[>	Sc	45		ug/L			274724	252169	0
|	V-1	51	1.704	ug/L	0.033	1	1520	21200	1
|	V	51	1.475	ug/L	0.027	1	8388	25188	0
|	Cr	52	2.096	ug/L	0.007	0	5986	27400	0
|	Cr	53	1.380	ug/L	0.012	0	2872	4371	0
|	Mn	55	26.622	ug/L	0.175	0	440	478385	0
[	Co	59	0.347	ug/L	0.008	2	54	4995	2
[>	Ge	72		ug/L			407406	327739	0
|	Ni	60	1.964	ug/L	0.016	0	87	5076	1
|	Ni	62	3.514	ug/L	0.170	4	71	1432	4
|	Cu	63	9.074	ug/L	0.082	0	210	54516	1
|	Cu	65	8.872	ug/L	0.091	1	101	26028	0
|	Zn	66	68.535	ug/L	0.797	1	205	136419	1
|	Zn	67	59.794	ug/L	0.287	0	217	20407	0
|	Zn	68	65.547	ug/L	0.781	1	6749	98463	0
|	As-1	75	0.543	ug/L	0.020	3	480	1367	2
|	As	75	0.058	ug/L	0.027	47	8965	7316	0
|	Se	82	0.110	ug/L	0.059	53	-12	9	109
|	Se	78	-1.924	ug/L	0.082	4	9091	6448	0
[	Mo	98	0.854	ug/L	0.006	0	27	5027	0
	Y	89		ug/L			305272	297622	0
	Kr	83		ug/L			263	196	1
[>	In	115		ug/L			454742	387323	0
|	Ag	107	0.037	ug/L	0.002	4	46	495	4
|	Cd	111	0.100	ug/L	0.007	6	208	481	4
|	Cd	114	0.091	ug/L	0.002	2	18	666	2
|	Sb	121	1.194	ug/L	0.003	0	144	13526	0
|	Sb	123	1.187	ug/L	0.036	3	121	10198	2
|	Ba	135	15.827	ug/L	0.128	0	20	39622	0
[	Ba	137	16.047	ug/L	0.159	0	29	68071	0
[>	Tb	159		ug/L			437751	440187	0
|	Tl	205	0.029	ug/L	0.007	24	243	1208	20
|	Pb	208	5.526	ug/L	0.006	0	830	242660	0
|	Bi	209		ug/L			369705	371155	0
|	Th	232	0.086	ug/L	0.003	3	282	4933	2
[	U	238	0.043	ug/L	0.004	8	35	2543	8

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QL06 B REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, March 30, 2010 22:53:33
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			287408	509521	0
[	Be	9	0.010	ug/L	0.008	77	5	17	30
	C	13		mg/L			6024	8566	2
	Cl	37		mg/L			3017573	8984277	0
[>	Sc	45		ug/L			274724	319651 ✓	1
[	V-1	51	2.297	ug/L	0.038	1	1520	35602	0
[	V	51	4.331	ug/L	0.096	2	8388	74831	1
[	Cr	52	0.989	ug/L	0.026	2	5986	20073	2
[	Cr	53	7.203	ug/L	0.159	2	2872	14813	1
[	Mn	55	943.866	ug/L	7.397	0	440	21483706	1
[	Co	59	0.758	ug/L	0.010	1	54	13752	2
[>	Ge	72		ug/L			407406	320334	0
[	Ni	60	13.660	ug/L	0.096	0	87	34101	1
[	Ni	62	18.960	ug/L	1.622	8	71	7313	9
[	Cu	63	4.278	ug/L	0.131	3	210	25211	3
[	Cu	65	0.836	ug/L	0.015	1	101	2468	0
[	Zn	66	44.229	ug/L	0.375	0	205	86103	0
[	Zn	67	40.061	ug/L	0.760	1	217	13420	2
[	Zn	68	43.413	ug/L	0.288	0	6749	65533	0
[	As-1	75	1.855	ug/L	0.044	2	480	3656	1
[	As	75	0.784	ug/L	0.038	4	8965	8440	0
[	Se	82	3.489	ug/L	0.145	4	-12	582	5
[	Se	78	-0.425	ug/L	0.156	36	9091	6961	1
[	Mo	98	5.525	ug/L	0.030	0	27	31676	0
	Y	89		ug/L			305272	315188	0
	Kr	83		ug/L			263	282	0
[>	In	115		ug/L			454742	362910	0
[	Ag	107	✓ 0.018	ug/L	0.002	9	46	248	7
[	Cd	111	-0.529	ug/L	0.039	7	208	-1335	8
[	Cd	114	✓ 0.014	ug/L	0.002	15	18	109	13
[	Sb	121	0.109	ug/L	0.005	4	144	1256	4
[	Sb	123	0.106	ug/L	0.002	2	121	938	2
[	Ba	135	41.353	ug/L	0.326	0	20	96978	1
[	Ba	137	41.853	ug/L	0.199	0	29	166310	0
[>	Tb	159		ug/L			437751	411155	0
[	Tl	205	✓ 0.001	ug/L	0.001	147	243	251	13
[	Pb	208	✓ 0.082	ug/L	0.002	2	830	4129	1
[	Bi	209		ug/L			369705	314206	0
[	Th	232	0.030	ug/L	0.002	7	282	1807	6
[	U	238	0.014	ug/L	0.001	9	35	817	9

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QL06 C REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, March 30, 2010 23:00:17
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			287408	537026	0
[	Be	9	0.003	ug/L	0.005	156	5	12	24
	C	13		mg/L			6024	7792	0
	Cl	37		mg/L			3017573	2269647	2
[>	Sc	45		ug/L			274724	266036	2
[	V-1	51	12.538	ug/L	0.254	2	1520	155129	0
[	V	51	12.284	ug/L	0.250	2	8388	161719	0
[	Cr	52	0.464	ug/L	0.009	1	5986	10909	1
[	Cr	53	0.421	ug/L	0.094	22	2872	3340	3
[	Mn	55	69.192	ug/L	0.575	0	440	1310921	1
[	Co	59	1.568	ug/L	0.038	2	54	23618	0
[>	Ge	72		ug/L			407406	289804	0
[	Ni	60	2.678	ug/L	0.055	2	87	6097	1
[	Ni	62	9.901	ug/L	0.420	4	71	3477	3
[	Cu	63	2.054	ug/L	0.013	0	210	11028	0
[	Cu	65	1.642	ug/L	0.035	2	101	4317	2
[	Zn	66	2.114	ug/L	0.047	2	205	3862	1
[	Zn	67	2.862	ug/L	0.189	6	217	1010	5
[	Zn	68	1.347	ug/L	0.097	7	6749	6491	1
[	As-1	75	1.534	ug/L	0.012	0	480	2794	1
[	As	75	1.228	ug/L	0.043	3	8965	8350	1
[	Se	82	0.565	ug/L	0.039	6	-12	78	8
[	Se	78	-0.593	ug/L	0.163	27	9091	6231	1
[	Mo	98	9.669	ug/L	0.068	0	27	50139	1
	Y	89		ug/L			305272	280620	1
	Kr	83		ug/L			263	196	2
[>	In	115		ug/L			454742	336582	1
[	Ag	107	0.007	ug/L	0.002	33	46	109	23
[	Cd	111	-0.019	ug/L	0.010	51	208	103	26
[	Cd	114	0.015	ug/L	0.000	2	18	109	2
[	Sb	121	0.191	ug/L	0.007	3	144	1966	3
[	Sb	123	0.191	ug/L	0.003	1	121	1501	2
[	Ba	135	8.407	ug/L	0.132	1	20	18296	1
[	Ba	137	8.511	ug/L	0.139	1	29	31378	0
[>	Tb	159		ug/L			437751	397889	0
[	Tl	205	0.008	ug/L	0.003	31	243	468	17
[	Pb	208	0.047	ug/L	0.002	4	830	2615	3
[	Bi	209		ug/L			369705	315149	1
[	Th	232	0.035	ug/L	0.002	6	282	1953	5
[	U	238	0.151	ug/L	0.002	1	35	8074	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QL06 E REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, March 30, 2010 23:07:02
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

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	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			287408	532445	1
[	Be	9	0.017	ug/L	0.010	59	5	22	30
	C	13		mg/L			6024	7837	2
	Cl	37		mg/L			3017573	2333912	0
[>	Sc	45		ug/L			274724	269700	0
[	V-1	51	2.226	ug/L	0.044	1	1520	29154	1
[	V	51	2.197	ug/L	0.036	1	8388	36091	1
[	Cr	52	2.691	ug/L	0.052	1	5986	35963	1
[	Cr	53	2.576	ug/L	0.053	2	2872	6282	1
[	Mn	55	392.838	ug/L	8.517	2	440	7543458	1
[	Co	59	0.268	ug/L	0.009	3	54	4140	2
[>	Ge	72		ug/L			407406	283867	0
[	Ni	60	2.844	ug/L	0.071	2	87	6339	1
[	Ni	62	6.010	ug/L	0.232	3	71	2087	4
[	Cu	63	0.611	ug/L	0.012	1	210	3315	2
[	Cu	65	0.312	ug/L	0.012	3	101	860	3
[	Zn	66	14.684	ug/L	0.202	1	205	25428	1
[	Zn	67	13.118	ug/L	0.325	2	217	3995	2
[	Zn	68	13.852	ug/L	0.154	1	6749	21732	1
[	As-1	75	0.839	ug/L	0.017	2	480	1649	1
[	As	75	0.445	ug/L	0.037	8	8965	6946	0
[	Se	82	0.192	ug/L	0.032	16	-12	20	23
[	Se	78	-1.344	ug/L	0.145	10	9091	5811	0
[	Mo	98	2.325	ug/L	0.028	1	27	11826	0
	Y	89		ug/L			305272	267548	0
	Kr	83		ug/L			263	190	1
[>	In	115		ug/L			454742	332104	0
[	Ag	107	U 0.005	ug/L	0.002	29	46	88	18
[	Cd	111	U -0.023	ug/L	0.007	30	208	91	20
[	Cd	114	0.004	ug/L	0.002	41	18	38	27
[	Sb	121	0.048	ug/L	0.001	3	144	566	2
[	Sb	123	0.047	ug/L	0.001	2	121	434	2
[	Ba	135	7.651	ug/L	0.057	0	20	16431	0
[	Ba	137	7.769	ug/L	0.001	0	29	28268	0
[>	Tb	159		ug/L			437751	389450	0
[	Tl	205	U 0.004	ug/L	0.000	9	243	324	3
[	Pb	208	U 0.030	ug/L	0.002	6	830	1901	4
[	Bi	209		ug/L			369705	315420	0
[	Th	232	0.014	ug/L	0.002	12	282	942	8
[	U	238	0.005	ug/L	0.001	12	35	317	11

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QL06 F REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, March 30, 2010 23:13:48
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

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	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			287408	539437	0
[	Be	9	0.008	ug/L	0.003	44	5	16	15
	C	13		mg/L			6024	7871	2
	Cl	37		mg/L			3017573	2249649	0
[>	Sc	45		ug/L			274724	268829	1
[	V-1	51	5.866	ug/L	0.068	1	1520	74143	0
[	V	51	5.609	ug/L	0.077	1	8388	79089	0
[	Cr	52	1.156	ug/L	0.007	0	5986	18735	1
[	Cr	53	0.663	ug/L	0.025	3	2872	3698	0
[	Mn	55	416.847	ug/L	3.458	0	440	7978768	0
[	Co	59	0.667	ug/L	0.006	0	54	10191	0
[>	Ge	72		ug/L			407406	285488	0
[	Ni	60	3.132	ug/L	0.111	3	87	7015	3
[	Ni	62	6.039	ug/L	0.219	3	71	2108	3
[	Cu	63	0.894	ug/L	0.026	2	210	4810	2
[	Cu	65	✓ 0.342	ug/L	0.002	0	101	941	0
[	Zn	66	10.333	ug/L	0.049	0	205	18039	0
[	Zn	67	9.542	ug/L	0.168	1	217	2964	1
[	Zn	68	9.502	ug/L	0.056	0	6749	16478	0
[	As-1	75	12.344	ug/L	0.034	0	480	19783	0
[	As	75	11.858	ug/L	0.056	0	8965	25051	0
[	Se	82	0.407	ug/L	0.021	5	-12	52	5
[	Se	78	-1.385	ug/L	0.079	5	9091	5828	0
[	Mo	98	2.097	ug/L	0.022	1	27	10726	1
	Y	89		ug/L			305272	275689	1
	Kr	83		ug/L			263	175	1
[>	In	115		ug/L			454742	332699	0
[	Ag	107	U 0.008	ug/L	0.001	7	46	121	5
[	Cd	111	U -0.030	ug/L	0.017	56	208	74	58
[	Cd	114	0.005	ug/L	0.001	26	18	43	17
[	Sb	121	0.083	ug/L	0.001	1	144	903	1
[	Sb	123	0.084	ug/L	0.001	1	121	705	1
[	Ba	135	15.741	ug/L	0.108	0	20	33852	1
[	Ba	137	16.023	ug/L	0.061	0	29	58384	0
[>	Tb	159		ug/L			437751	395072	0
[	Tl	205	✓ 0.002	ug/L	0.001	35	243	287	8
[	Pb	208	✓ 0.069	ug/L	0.001	0	830	3477	0
[	Bi	209		ug/L			369705	314499	0
[	Th	232	0.025	ug/L	0.001	3	282	1478	3
[	U	238	0.009	ug/L	0.001	8	35	506	7

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QL06 G REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, March 30, 2010 23:20:35
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			287408	523655	0
[	Be	9	-0.005	ug/L	0.004	79	5	7	33
	C	13		mg/L			6024	7891	0
	Cl	37		mg/L			3017573	2121979	5
[>	Sc	45		ug/L			274724	257730	1
[	V-1	51	11.479	ug/L	0.071	0	1520	137756	1
[	V	51	11.044	ug/L	0.066	0	8388	141687	1
[	Cr	52	-0.001	ug/L	0.020	3794	5986	5608	2
[	Cr	53	-0.626	ug/L	0.048	7	2872	1890	1
[	Mn	55	26.576	ug/L	0.535	2	440	488025	0
[	Co	59	0.788	ug/L	0.003	0	54	11528	1
[>	Ge	72		ug/L			407406	296055	0
[	Ni	60	3.348	ug/L	0.161	4	87	7772	4
[	Ni	62	4.731	ug/L	0.099	2	71	1724	1
[	Cu	63	1.240	ug/L	0.018	1	210	6863	1
[	Cu	65	1.159	ug/L	0.027	2	101	3136	1
[	Zn	66	2.968	ug/L	0.038	1	205	5478	0
[	Zn	67	4.194	ug/L	0.271	6	217	1439	5
[	Zn	68	2.708	ug/L	0.096	3	6749	8376	1
[	As-1	75	2.637	ug/L	0.058	2	480	4657	1
[	As	75	2.262	ug/L	0.063	2	8965	10228	0
[	Se	82	3.347	ug/L	0.069	2	-12	515	1
[	Se	78	1.861	ug/L	0.072	3	9091	7362	0
[	Mo	98	18.069	ug/L	0.143	0	27	95700	0
	Y	89		ug/L			305272	274874	0
	Kr	83		ug/L			263	197	3
[>	In	115		ug/L			454742	351117	1
[	Ag	107	0.002	ug/L	0.001	70	46	58	27
[	Cd	111	0.012	ug/L	0.012	104	208	193	17
[	Cd	114	0.033	ug/L	0.003	10	18	230	10
[	Sb	121	0.874	ug/L	0.013	1	144	9002	0
[	Sb	123	0.887	ug/L	0.029	3	121	6930	2
[	Ba	135	30.541	ug/L	0.562	1	20	69289	0
[	Ba	137	30.860	ug/L	0.313	1	29	118639	0
[>	Tb	159		ug/L			437751	405044	1
[	Tl	205	0.025	ug/L	0.001	3	243	978	3
[	Pb	208	0.078	ug/L	0.001	0	830	3899	1
[	Bi	209		ug/L			369705	325647	0
[	Th	232	0.001	ug/L	0.001	63	282	323	11
[	U	238	2.331	ug/L	0.036	1	35	126531	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV10
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, March 30, 2010 23:27:22
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			287408	528204	0
[	Be	9	43.739	ug/L	0.557	1	5	29879	0
	C	13		mg/L			6024	5854	2
	Cl	37		mg/L			3017573	2297677	0
[>	Sc	45		ug/L			274724	217571	0
[	V-1	51	49.065	ug/L	0.914	1	1520	493117	2
[	V	51	48.740	ug/L	0.797	1	8388	505206	1
[	Cr	52	48.696	ug/L	0.541	1	5986	443932	1
[	Cr	53	47.739	ug/L	0.210	0	2872	54030	0
[	Mn	55	48.543	ug/L	0.398	0	440	752344	0
[	Co	59	45.431	ug/L	0.678	1	54	558557	1
[>	Ge	72		ug/L			407406	291417	0
[	Ni	60	50.976	ug/L	0.402	0	87	115599	1
[	Ni	62	53.271	ug/L	0.208	0	71	18592	0
[	Cu	63	49.872	ug/L	0.362	0	210	265732	0
[	Cu	65	48.918	ug/L	0.454	0	101	127286	1
[	Zn	66	50.899	ug/L	0.182	0	205	90126	0
[	Zn	67	49.068	ug/L	0.813	1	217	14918	1
[	Zn	68	48.975	ug/L	0.700	1	6749	66637	1
[	As-1	75	50.723	ug/L	0.230	0	480	81909	0
[	As	75	49.693	ug/L	0.209	0	8965	86705	0
[	Se	82	56.957	ug/L	0.261	0	-12	8779	0
[	Se	78	52.692	ug/L	0.135	0	9091	27562	0
[	Mo	98	55.775	ug/L	0.167	0	27	290738	0
	Y	89		ug/L			305272	257334	0
	Kr	83		ug/L			263	191	2
[>	In	115		ug/L			454742	339431	0
[	Ag	107	51.498	ug/L	0.458	0	46	556489	0
[	Cd	111	52.735	ug/L	0.361	0	208	140137	0
[	Cd	114	51.975	ug/L	0.390	0	18	326774	0
[	Sb	121	50.215	ug/L	0.206	0	144	494152	0
[	Sb	123	49.935	ug/L	0.236	0	121	372235	1
[	Ba	135	49.880	ug/L	0.150	0	20	109403	0
[	Ba	137	51.055	ug/L	0.562	1	29	189754	1
[>	Tb	159		ug/L			437751	395573	1
[	Tl	205	47.615	ug/L	0.295	0	243	1407816	0
[	Pb	208	49.501	ug/L	0.232	0	830	1947245	1
[	Bi	209		ug/L			369705	327417	0
[	Th	232	54.296	ug/L	0.122	0	282	2646288	1
[	U	238	55.665	ug/L	0.422	0	35	2950184	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB10
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, March 30, 2010 23:34:49
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			287408	519702	0
[	Be	9	0.010	ug/L	0.015	142	5	17	56
	C	13		mg/L			6024	5570	1
	Cl	37		mg/L			3017573	2318289	0
[>	Sc	45		ug/L			274724	215652	0
[	V-1	51	0.036	ug/L	0.011	31	1520	1547	7
[	V	51	-0.150	ug/L	0.019	12	8388	5063	4
[	Cr	52	-0.043	ug/L	0.019	44	5986	4311	4
[	Cr	53	-0.599	ug/L	0.044	7	2872	1611	3
[	Mn	55	0.040	ug/L	0.010	24	440	957	16
[	Co	59	0.028	ug/L	0.007	24	54	379	22
[>	Ge	72		ug/L			407406	289296	0
[	Ni	60	0.021	ug/L	0.013	63	87	108	27
[	Ni	62	2.285	ug/L	0.122	5	71	840	5
[	Cu	63	0.094	ug/L	0.012	12	210	648	9
[	Cu	65	0.037	ug/L	0.008	21	101	168	12
[	Zn	66	0.057	ug/L	0.007	12	205	246	4
[	Zn	67	-0.004	ug/L	0.010	249	217	152	2
[	Zn	68	-0.657	ug/L	0.058	8	6749	3969	1
[	As-1	75	0.046	ug/L	0.007	15	480	415	2
[	As	75	-0.168	ug/L	0.042	24	8965	6096	1
[	Se	82	0.145	ug/L	0.085	59	-12	13	96
[	Se	78	-0.799	ug/L	0.185	23	9091	6139	1
[	Mo	98	0.061	ug/L	0.011	17	27	335	16
	Y	89		ug/L			305272	255906	0
	Kr	83		ug/L			263	175	2
[>	In	115		ug/L			454742	338655	0
[	Ag	107	0.040	ug/L	0.011	26	46	471	24
[	Cd	111	0.021	ug/L	0.016	72	208	212	19
[	Cd	114	0.034	ug/L	0.009	26	18	224	25
[	Sb	121	0.163	ug/L	0.056	34	144	1707	32
[	Sb	123	0.166	ug/L	0.056	33	121	1325	31
[	Ba	135	0.040	ug/L	0.009	21	20	102	18
[	Ba	137	0.041	ug/L	0.005	12	29	172	11
[>	Tb	159		ug/L			437751	389276	1
[	Tl	205	0.035	ug/L	0.010	27	243	1243	23
[	Pb	208	0.031	ug/L	0.011	34	830	1954	23
[	Bi	209		ug/L			369705	329638	0
[	Th	232	0.069	ug/L	0.012	17	282	3558	17
[	U	238	0.033	ug/L	0.010	29	35	1773	30

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QM04 ADUP REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, March 30, 2010 23:42:16
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
⌈>	**Li**	**6**		ug/L			287408	535841	0
⌊	**Be**	**9**	**0.005**	ug/L	0.006	109	5	14	27
	C	**13**		mg/L			6024	7691	1
	Cl	**37**		mg/L			3017573	2266333	0
⌈>	**Sc**	**45**		ug/L			274724	229473	0
|	**V-1**	**51**	**2.256**	ug/L	0.010	0	1520	25124	0
|	**V**	**51**	**2.066**	ug/L	0.003	0	8388	29292	0
|	**Cr**	**52**	**2.738**	ug/L	0.038	1	5986	31042	0
|	**Cr**	**53**	**2.135**	ug/L	0.054	2	2872	4840	1
|	**Mn**	**55**	**26.509**	ug/L	0.139	0	440	433471	0
⌊	**Co**	**59**	**0.471**	ug/L	0.013	2	54	6151	2
⌈>	**Ge**	**72**		ug/L			407406	296727	0
|	**Ni**	**60**	**2.407**	ug/L	0.050	2	87	5619	2
|	**Ni**	**62**	**4.483**	ug/L	0.119	2	71	1640	3
|	**Cu**	**63**	**11.864**	ug/L	0.205	1	210	64485	2
|	**Cu**	**65**	**11.731**	ug/L	0.078	0	101	31136	0
|	**Zn**	**66**	**85.450**	ug/L	0.418	0	205	153962	0
|	**Zn**	**67**	**74.468**	ug/L	0.703	0	217	22971	1
|	**Zn**	**68**	**81.879**	ug/L	0.483	0	6749	110137	0
|	**As-1**	**75**	**0.670**	ug/L	0.008	1	480	1446	1
|	**As**	**75**	**0.429**	ug/L	0.044	10	8965	7235	0
|	**Se**	**82**	**0.066**	ug/L	0.046	69	-12	1	459
|	**Se**	**78**	**-0.902**	ug/L	0.177	19	9091	6254	0
⌊	**Mo**	**98**	**1.223**	ug/L	0.009	0	27	6512	1
	Y	**89**		ug/L			305272	270175	0
	Kr	**83**		ug/L			263	190	1
⌈>	**In**	**115**		ug/L			454742	349426	0
|	**Ag**	**107**	**0.018**	ug/L	0.001	4	46	238	2
|	**Cd**	**111**	**0.098**	ug/L	0.014	13	208	427	9
|	**Cd**	**114**	**0.091**	ug/L	0.003	2	18	604	2
|	**Sb**	**121**	**1.715**	ug/L	0.003	0	144	17485	0
|	**Sb**	**123**	**1.691**	ug/L	0.021	1	121	13064	1
|	**Ba**	**135**	**19.834**	ug/L	0.036	0	20	44791	0
⌊	**Ba**	**137**	**20.190**	ug/L	0.100	0	29	77258	0
⌈>	**Tb**	**159**		ug/L			437751	399922	0
|	**Tl**	**205**	**0.011**	ug/L	0.002	14	243	550	7
|	**Pb**	**208**	**7.828**	ug/L	0.035	0	830	311942	0
|	**Bi**	**209**		ug/L			369705	335300	0
|	**Th**	**232**	**0.065**	ug/L	0.005	7	282	3460	5
⌊	**U**	**238**	**0.022**	ug/L	0.002	8	35	1225	7

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QM04 A REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, March 30, 2010 23:49:02
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
⌈>	**Li**	**6**		ug/L			287408	541271	0
⌊	**Be**	**9**	**0.003**	ug/L	0.008	251	5	13	44
	C	**13**		mg/L			6024	7621	2
	Cl	**37**		mg/L			3017573	2238316	0
⌈>	**Sc**	**45**		ug/L			274724	229631	1
⌈	**V-1**	**51**	**2.216**	ug/L	0.022	0	1520	24719	2
⌊	**V**	**51**	**2.009**	ug/L	0.021	1	8388	28698	1
⌈	**Cr**	**52**	**2.782**	ug/L	0.050	1	5986	31491	2
⌊	**Cr**	**53**	**2.124**	ug/L	0.079	3	2872	4830	1
⌈	**Mn**	**55**	**26.649**	ug/L	0.308	1	440	436079	1
⌊	**Co**	**59**	**0.480**	ug/L	0.006	1	54	6276	2
⌈>	**Ge**	**72**		ug/L			407406	298671	0
⌈	**Ni**	**60**	**2.416**	ug/L	0.062	2	87	5676	3
⌊	**Ni**	**62**	**4.349**	ug/L	0.094	2	71	1603	2
⌈	**Cu**	**63**	**12.056**	ug/L	0.056	0	210	65952	0
⌊	**Cu**	**65**	**11.871**	ug/L	0.101	0	101	31714	1
⌈	**Zn**	**66**	**85.605**	ug/L	0.200	0	205	155252	1
⌈	**Zn**	**67**	**75.511**	ug/L	0.741	0	217	23444	1
⌊	**Zn**	**68**	**82.367**	ug/L	0.439	0	6749	111490	0
⌈	**As-1**	**75**	**0.681**	ug/L	0.007	1	480	1474	1
⌊	**As**	**75**	**0.398**	ug/L	0.030	7	8965	7231	0
⌈	**Se**	**82**	**0.058**	ug/L	0.022	38	-12	0	1339
⌊	**Se**	**78**	**-1.041**	ug/L	0.120	11	9091	6238	0
⌊	**Mo**	**98**	**1.175**	ug/L	0.023	1	27	6297	2
	Y	**89**		ug/L			305272	271856	0
	Kr	**83**		ug/L			263	197	4
⌈>	**In**	**115**		ug/L			454742	349360	1
⌈	**Ag**	**107**	**0.019**	ug/L	0.002	10	46	246	7
⌈	**Cd**	**111**	**0.128**	ug/L	0.013	10	208	511	8
⌊	**Cd**	**114**	**0.130**	ug/L	0.003	2	18	857	1
⌈	**Sb**	**121**	**1.706**	ug/L	0.018	1	144	17385	0
⌊	**Sb**	**123**	**1.713**	ug/L	0.009	0	121	13229	1
⌈	**Ba**	**135**	**19.751**	ug/L	0.030	0	20	44598	1
⌊	**Ba**	**137**	**20.118**	ug/L	0.191	0	29	76963	0
⌈>	**Tb**	**159**		ug/L			437751	406805	0
⌈	**Tl**	**205**	**0.008**	ug/L	0.001	13	243	464	6
⌊	**Pb**	**208**	**7.759**	ug/L	0.011	0	830	314529	0
⌈	**Bi**	**209**		ug/L			369705	337677	0
⌈	**Th**	**232**	**0.059**	ug/L	0.002	2	282	3215	3
⌊	**U**	**238**	**0.020**	ug/L	0.001	2	35	1132	3

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QM04 ASPK REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, March 30, 2010 23:55:50
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
⌈>	Li	6		ug/L			287408	559408	0
⌊	Be	9	22.783	ug/L	0.480	2	5	16487	1
	C	13		mg/L			6024	7412	0
	Cl	37		mg/L			3017573	2267451	0
⌈>	Sc	45		ug/L			274724	237532	0
⌈	V-1	51	27.267	ug/L	0.317	1	1520	299745	0
⌊	V	51	27.015	ug/L	0.301	1	8388	308924	0
⌈	Cr	52	27.936	ug/L	0.149	0	5986	280248	0
⌊	Cr	53	27.137	ug/L	0.113	0	2872	34603	0
⌈	Mn	55	52.674	ug/L	0.312	0	440	891254	1
⌊	Co	59	24.261	ug/L	0.424	1	54	325638	1
⌈>	Ge	72		ug/L			407406	310549	0
⌈	Ni	60	29.517	ug/L	0.539	1	87	71360	2
⌊	Ni	62	30.937	ug/L	0.133	0	71	11528	0
⌈	Cu	63	39.178	ug/L	0.167	0	210	222489	0
⌊	Cu	65	38.534	ug/L	0.593	1	101	106863	1
⌈	Zn	66	169.947	ug/L	1.837	1	205	320315	1
⌊	Zn	67	151.126	ug/L	0.694	0	217	48618	0
⌈	Zn	68	164.712	ug/L	0.809	0	6749	226676	0
⌈	As-1	75	27.698	ug/L	0.084	0	480	47830	0
⌊	As	75	26.207	ug/L	0.199	0	8965	51958	0
⌈	Se	82	88.831	ug/L	0.717	0	-12	14596	0
⌊	Se	78	81.551	ug/L	1.001	1	9091	41661	0
⌊	Mo	98	1.254	ug/L	0.015	1	27	6985	1
	Y	89		ug/L			305272	282767	0
	Kr	83		ug/L			263	187	4
⌈>	In	115		ug/L			454742	362328	2
⌈	Ag	107	25.398	ug/L	0.502	1	46	292909	0
⌈	Cd	111	26.888	ug/L	0.563	2	208	76333	0
⌊	Cd	114	26.764	ug/L	0.465	1	18	179589	0
⌈	Sb	121	1.772	ug/L	0.040	2	144	18722	1
⌊	Sb	123	1.757	ug/L	0.038	2	121	14072	0
⌈	Ba	135	46.469	ug/L	0.886	1	20	108770	0
⌊	Ba	137	47.097	ug/L	1.334	2	29	186770	0
⌈>	Tb	159		ug/L			437751	418053	0
⌈	Tl	205	24.925	ug/L	0.112	0	243	778954	0
⌊	Pb	208	34.509	ug/L	0.206	0	830	1434874	0
⌈	Bi	209		ug/L			369705	352739	0
⌈	Th	232	24.914	ug/L	0.335	1	282	1283358	1
⌊	U	238	27.231	ug/L	0.334	1	35	1525375	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QM04 EDUP REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Wednesday, March 31, 2010 00:03:38
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			287408	561673	0
[	Be	9	0.008	ug/L	0.001	13	5	17	4
	C	13		mg/L			6024	8353	2
	Cl	37		mg/L			3017573	2283087	0
[>	Sc	45		ug/L			274724	235284	0
[	V-1	51	0.412	ug/L	0.021	4	1520	5774	4
[	V	51	0.172	ug/L	0.011	6	8388	9081	1
[	Cr	52	0.654	ug/L	0.013	1	5986	11507	1
[	Cr	53	-0.087	ug/L	0.068	78	2872	2358	2
[	Mn	55	10.154	ug/L	0.009	0	440	170477	0
[	Co	59	0.093	ug/L	0.003	3	54	1279	3
[>	Ge	72		ug/L			407406	309018	0
[	Ni	60	1.022	ug/L	0.027	2	87	2522	2
[	Ni	62	2.364	ug/L	0.066	2	71	926	2
[	Cu	63	5.664	ug/L	0.025	0	210	32143	0
[	Cu	65	5.527	ug/L	0.010	0	101	15317	0
[	Zn	66	56.471	ug/L	0.470	0	205	106014	0
[	Zn	67	49.335	ug/L	0.326	0	217	15904	0
[	Zn	68	54.167	ug/L	0.284	0	6749	77611	0
[	As-1	75	0.377	ug/L	0.023	6	480	1006	3
[	As	75	0.036	ug/L	0.019	52	8965	6862	0
[	Se	82	0.129	ug/L	0.132	102	-12	11	182
[	Se	78	-1.326	ug/L	0.046	3	9091	6334	0
[	Mo	98	0.986	ug/L	0.017	1	27	5471	1
	Y	89		ug/L			305272	276108	0
	Kr	83		ug/L			263	185	6
[>	In	115		ug/L			454742	365880	0
[	Ag	107	0.021	ug/L	0.003	16	46	279	14
[	Cd	111	0.066	ug/L	0.006	9	208	356	5
[	Cd	114	0.075	ug/L	0.008	10	18	522	10
[	Sb	121	1.076	ug/L	0.013	1	144	11524	1
[	Sb	123	1.066	ug/L	0.020	1	121	8657	1
[	Ba	135	11.818	ug/L	0.199	1	20	27950	1
[	Ba	137	11.830	ug/L	0.129	1	29	47408	1
[>	Tb	159		ug/L			437751	420949	0
[	Tl	205	0.017	ug/L	0.004	21	243	760	15
[	Pb	208	0.376	ug/L	0.004	1	830	16523	1
[	Bi	209		ug/L			369705	351109	0
[	Th	232	0.036	ug/L	0.006	17	282	2146	14
[	U	238	0.023	ug/L	0.004	18	35	1332	18

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QM04 E REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Wednesday, March 31, 2010 00:11:26
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
⌈>	Li	6		ug/L			287408	562876	1
⌊	Be	9	-0.005	ug/L	0.006	117	5	7	50
	C	13		mg/L			6024	8529	0
	Cl	37		mg/L			3017573	2285546	1
⌈>	Sc	45		ug/L			274724	234726	0
|	V-1	51	0.366	ug/L	0.012	3	1520	5256	2
|	V	51	0.146	ug/L	0.008	5	8388	8783	1
|	Cr	52	0.585	ug/L	0.011	1	5986	10810	0
|	Cr	53	-0.090	ug/L	0.042	46	2872	2349	2
|	Mn	55	9.652	ug/L	0.030	0	440	161681	0
⌊	Co	59	0.110	ug/L	0.001	1	54	1503	1
⌈>	Ge	72		ug/L			407406	307997	0
|	Ni	60	0.957	ug/L	0.030	3	87	2356	2
|	Ni	62	2.090	ug/L	0.076	3	71	822	3
|	Cu	63	5.392	ug/L	0.097	1	210	30505	1
|	Cu	65	5.214	ug/L	0.050	0	101	14408	1
|	Zn	66	54.370	ug/L	0.269	0	205	101737	0
|	Zn	67	47.509	ug/L	0.354	0	217	15271	1
|	Zn	68	51.979	ug/L	0.245	0	6749	74435	0
|	As-1	75	0.350	ug/L	0.003	0	480	957	0
|	As	75	-0.008	ug/L	0.059	755	8965	6763	0
|	Se	82	0.072	ug/L	0.028	38	-12	2	179
|	Se	78	-1.430	ug/L	0.232	16	9091	6268	0
⌊	Mo	98	0.944	ug/L	0.028	2	27	5218	2
	Y	89		ug/L			305272	276778	0
	Kr	83		ug/L			263	188	0
⌈>	In	115		ug/L			454742	361844	0
|	Ag	107	0.005	ug/L	0.001	23	46	93	14
|	Cd	111	0.056	ug/L	0.007	12	208	325	5
|	Cd	114	0.053	ug/L	0.000	0	18	371	0
|	Sb	121	1.037	ug/L	0.007	0	144	10992	0
|	Sb	123	1.037	ug/L	0.017	1	121	8336	1
|	Ba	135	11.302	ug/L	0.067	0	20	26438	0
⌊	Ba	137	11.433	ug/L	0.138	1	29	45313	1
⌈>	Tb	159		ug/L			437751	417229	1
|	Tl	205	0.001	ug/L	0.001	73	243	270	10
|	Pb	208	0.346	ug/L	0.005	1	830	15134	0
|	Bi	209		ug/L			369705	348789	0
|	Th	232	0.011	ug/L	0.001	11	282	850	6
⌊	U	238	0.006	ug/L	0.001	15	35	351	12

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QM04 ESPK REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Wednesday, March 31, 2010 00:18:14
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
⌈>	Li	6		ug/L			287408	567361	1
⌊	Be	9	22.514	ug/L	0.089	0	5	16526	1
	C	13		mg/L			6024	8461	1
	Cl	37		mg/L			3017573	2315318	0
⌈>	Sc	45		ug/L			274724	240175	0
|	V-1	51	25.649	ug/L	0.222	0	1520	285180	0
|	V	51	25.201	ug/L	0.246	0	8388	291884	0
|	Cr	52	25.786	ug/L	0.274	1	5986	261950	0
|	Cr	53	24.428	ug/L	0.298	1	2872	31744	0
|	Mn	55	34.568	ug/L	0.312	0	440	591507	0
⌊	Co	59	23.686	ug/L	0.197	0	54	321475	0
⌈>	Ge	72		ug/L			407406	311387	0
|	Ni	60	28.484	ug/L	0.052	0	87	69047	0
|	Ni	62	28.780	ug/L	0.296	1	71	10757	0
|	Cu	63	32.603	ug/L	0.195	0	210	185673	1
|	Cu	65	32.126	ug/L	0.296	0	101	89343	0
|	Zn	66	136.102	ug/L	2.058	1	205	257223	0
|	Zn	67	119.953	ug/L	0.579	0	217	38727	0
|	Zn	68	130.060	ug/L	0.968	0	6749	180552	0
|	As-1	75	27.035	ug/L	0.131	0	480	46819	0
|	As	75	25.512	ug/L	0.107	0	8965	50897	0
|	Se	82	86.422	ug/L	0.532	0	-12	14238	0
|	Se	78	79.073	ug/L	0.474	0	9091	40715	0
⌊	Mo	98	0.936	ug/L	0.006	0	27	5233	1
	Y	89		ug/L			305272	281070	0
	Kr	83		ug/L			263	192	3
⌈>	In	115		ug/L			454742	369832	1
|	Ag	107	25.470	ug/L	0.249	0	46	299884	1
|	Cd	111	26.374	ug/L	0.049	0	208	76450	2
|	Cd	114	26.033	ug/L	0.428	1	18	178310	0
|	Sb	121	1.043	ug/L	0.020	1	144	11298	0
|	Sb	123	1.048	ug/L	0.016	1	121	8609	1
|	Ba	135	37.176	ug/L	0.721	1	20	88827	0
⌊	Ba	137	37.918	ug/L	0.468	1	29	153531	1
⌈>	Tb	159		ug/L			437751	423156	0
|	Tl	205	24.977	ug/L	0.046	0	243	790130	0
|	Pb	208	26.447	ug/L	0.295	1	830	1113262	1
|	Bi	209		ug/L			369705	355845	1
|	Th	232	26.090	ug/L	0.453	1	282	1360368	1
⌊	U	238	26.936	ug/L	0.251	0	35	1527160	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QM04 C REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Wednesday, March 31, 2010 00:25:03
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
⌈>	**Li**	**6**		ug/L			287408	567530	0
⌊	**Be**	**9**	**0.008**	ug/L	0.011	152	5	17	49
	C	**13**		mg/L			6024	8015	1
	Cl	**37**		mg/L			3017573	2303263	0
⌈>	**Sc**	**45**		ug/L			274724	233429	0
⌈	**V-1**	**51**	**0.677**	ug/L	0.029	4	1520	8572	3
⌊	**V**	**51**	**0.430**	ug/L	0.014	3	8388	11842	1
⌈	**Cr**	**52**	**0.987**	ug/L	0.028	2	5986	14639	2
⌊	**Cr**	**53**	**0.223**	ug/L	0.019	8	2872	2699	1
⌈	**Mn**	**55**	**5.908**	ug/L	0.014	0	440	98558	0
⌊	**Co**	**59**	**0.121**	ug/L	0.004	3	54	1640	3
⌈>	**Ge**	**72**		ug/L			407406	305523	0
⌈	**Ni**	**60**	**0.480**	ug/L	0.017	3	87	1206	3
⌊	**Ni**	**62**	**1.674**	ug/L	0.039	2	71	664	2
⌈	**Cu**	**63**	**3.038**	ug/L	0.040	1	210	17118	1
⌊	**Cu**	**65**	**2.928**	ug/L	0.047	1	101	8059	1
⌈	**Zn**	**66**	**13.464**	ug/L	0.213	1	205	25107	1
⌊	**Zn**	**67**	**11.980**	ug/L	0.137	1	217	3941	0
⌈	**Zn**	**68**	**12.286**	ug/L	0.253	2	6749	21318	1
⌈	**As-1**	**75**	**0.455**	ug/L	0.015	3	480	1126	1
⌊	**As**	**75**	**0.081**	ug/L	0.057	69	8965	6860	1
⌈	**Se**	**82**	**0.145**	ug/L	0.077	53	-12	14	86
⌊	**Se**	**78**	**-1.439**	ug/L	0.228	15	9091	6214	1
⌊	**Mo**	**98**	**0.197**	ug/L	0.002	1	27	1096	1
	Y	**89**		ug/L			305272	275697	0
	Kr	**83**		ug/L			263	183	1
⌈>	**In**	**115**		ug/L			454742	361290	1
⌈	**Ag**	**107**	**0.024**	ug/L	0.005	22	46	308	19
⌈	**Cd**	**111**	**0.048**	ug/L	0.009	17	208	301	6
⌊	**Cd**	**114**	**0.050**	ug/L	0.004	8	18	347	7
⌈	**Sb**	**121**	**0.160**	ug/L	0.002	1	144	1794	2
⌊	**Sb**	**123**	**0.161**	ug/L	0.009	5	121	1372	4
⌈	**Ba**	**135**	**3.000**	ug/L	0.078	2	20	7018	1
⌊	**Ba**	**137**	**3.047**	ug/L	0.031	1	29	12073	0
⌈>	**Tb**	**159**		ug/L			437751	418293	1
⌈	**Tl**	**205**	**0.015**	ug/L	0.005	32	243	696	22
⌈	**Pb**	**208**	**1.403**	ug/L	0.009	0	830	59114	1
⌈	**Bi**	**209**		ug/L			369705	350903	0
⌈	**Th**	**232**	**0.050**	ug/L	0.004	8	282	2847	9
⌊	**U**	**238**	**0.026**	ug/L	0.005	19	35	1501	19

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QM04 D REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Wednesday, March 31, 2010 00:31:53
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
⌈>	Li	6		ug/L			287408	571060	0
⌊	Be	9	0.002	ug/L	0.008	447	5	12	45
	C	13		mg/L			6024	8250	2
	Cl	37		mg/L			3017573	2298750	1
⌈>	Sc	45		ug/L			274724	238848	1
|	V-1	51	0.696	ug/L	0.002	0	1520	8977	1
|	V	51	0.441	ug/L	0.018	4	8388	12239	1
|	Cr	52	1.165	ug/L	0.012	1	5986	16742	2
|	Cr	53	0.368	ug/L	0.053	14	2872	2934	1
|	Mn	55	6.509	ug/L	0.035	0	440	111079	0
⌊	Co	59	0.121	ug/L	0.004	3	54	1676	4
⌈>	Ge	72		ug/L			407406	312061	0
|	Ni	60	0.567	ug/L	0.020	3	87	1442	3
|	Ni	62	1.671	ug/L	0.121	7	71	677	6
|	Cu	63	3.117	ug/L	0.038	1	210	17936	0
|	Cu	65	3.005	ug/L	0.033	1	101	8446	0
|	Zn	66	18.416	ug/L	0.185	1	205	35019	0
|	Zn	67	15.928	ug/L	0.210	1	217	5297	0
|	Zn	68	16.928	ug/L	0.083	0	6749	28048	0
|	As-1	75	0.425	ug/L	0.006	1	480	1099	1
|	As	75	0.043	ug/L	0.044	102	8965	6940	0
|	Se	82	0.022	ug/L	0.061	272	-12	-5	179
|	Se	78	-1.564	ug/L	0.218	13	9091	6294	1
⌊	Mo	98	0.199	ug/L	0.006	3	27	1129	2
	Y	89		ug/L			305272	281868	1
	Kr	83		ug/L			263	192	3
⌈>	In	115		ug/L			454742	370602	0
|	Ag	107	0.013	ug/L	0.001	5	46	186	3
|	Cd	111	0.050	ug/L	0.003	6	208	314	3
|	Cd	114	0.041	ug/L	0.002	6	18	294	6
|	Sb	121	0.170	ug/L	0.004	2	144	1942	1
|	Sb	123	0.164	ug/L	0.007	4	121	1436	3
|	Ba	135	3.079	ug/L	0.040	1	20	7388	1
⌊	Ba	137	3.093	ug/L	0.050	1	29	12572	2
⌈>	Tb	159		ug/L			437751	426736	0
|	Tl	205	0.004	ug/L	0.000	4	243	358	1
|	Pb	208	1.756	ug/L	0.009	0	830	75307	0
|	Bi	209		ug/L			369705	357748	1
|	Th	232	0.033	ug/L	0.002	4	282	2016	4
⌊	U	238	0.015	ug/L	0.000	2	35	917	2

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QM04 F REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Wednesday, March 31, 2010 00:38:43
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
⌈>	Li	6		ug/L			287408	591458	0
⌊	Be	9	-0.008	ug/L	0.004	57	5	6	52
	C	13		mg/L			6024	9143	2
	Cl	37		mg/L			3017573	2289930	0
⌈>	Sc	45		ug/L			274724	247378	0
|	V-1	51	0.351	ug/L	0.022	6	1520	5366	4
|	V	51	0.078	ug/L	0.011	13	8388	8465	1
|	Cr	52	0.517	ug/L	0.009	1	5986	10694	0
|	Cr	53	-0.314	ug/L	0.076	24	2872	2199	3
|	Mn	55	13.277	ug/L	0.050	0	440	234246	0
⌊	Co	59	0.278	ug/L	0.007	2	54	3939	2
⌈>	Ge	72		ug/L			407406	321227	0
|	Ni	60	0.985	ug/L	0.020	2	87	2529	1
|	Ni	62	1.830	ug/L	0.059	3	71	758	3
|	Cu	63	4.418	ug/L	0.038	0	210	26099	1
|	Cu	65	4.251	ug/L	0.016	0	101	12264	0
|	Zn	66	46.772	ug/L	0.539	1	205	91303	1
|	Zn	67	41.058	ug/L	0.561	1	217	13787	1
|	Zn	68	44.438	ug/L	0.307	0	6749	67143	0
|	As-1	75	0.292	ug/L	0.018	6	480	897	3
|	As	75	-0.173	ug/L	0.015	8	8965	6759	0
|	Se	82	0.074	ug/L	0.131	177	-12	2	769
|	Se	78	-1.939	ug/L	0.057	2	9091	6314	0
⌊	Mo	98	0.725	ug/L	0.012	1	27	4189	1
	Y	89		ug/L			305272	291761	0
	Kr	83		ug/L			263	183	6
⌈>	In	115		ug/L			454742	381220	0
|	Ag	107	0.004	ug/L	0.001	27	46	85	15
|	Cd	111	0.041	ug/L	0.010	23	208	295	9
|	Cd	114	0.046	ug/L	0.004	8	18	340	7
|	Sb	121	0.771	ug/L	0.014	1	144	8634	1
|	Sb	123	0.769	ug/L	0.011	1	121	6539	0
|	Ba	135	10.490	ug/L	0.147	1	20	25855	1
⌊	Ba	137	10.635	ug/L	0.147	1	29	44410	1
⌈>	Tb	159		ug/L			437751	442250	0
|	Tl	205	-0.000	ug/L	0.001	648	243	242	8
|	Pb	208	0.315	ug/L	0.006	1	830	14689	1
|	Bi	209		ug/L			369705	366274	0
|	Th	232	0.010	ug/L	0.001	12	282	856	8
⌊	U	238	0.005	ug/L	0.000	7	35	357	6

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QM04 G REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Wednesday, March 31, 2010 00:45:33
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
⌈>	**Li**	**6**		ug/L			287408	619634	0
⌊	**Be**	**9**	**-0.010**	ug/L	0.002	17	5	4	31
	C	**13**		mg/L			6024	9318	1
	Cl	**37**		mg/L			3017573	2316743	0
⌈>	**Sc**	**45**		ug/L			274724	253331	1
⌈	**V-1**	**51**	**0.364**	ug/L	0.006	1	1520	5653	0
⌊	**V**	**51**	**0.068**	ug/L	0.012	17	8388	8541	0
⌈	**Cr**	**52**	**0.524**	ug/L	0.006	1	5986	11024	1
⌊	**Cr**	**53**	**-0.380**	ug/L	0.018	4	2872	2169	1
⌈	**Mn**	**55**	**0.624**	ug/L	0.013	2	440	11656	2
⌊	**Co**	**59**	**0.037**	ug/L	0.002	6	54	585	6
⌈>	**Ge**	**72**		ug/L			407406	328588	0
⌈	**Ni**	**60**	**0.530**	ug/L	0.022	4	87	1425	4
⌊	**Ni**	**62**	**1.401**	ug/L	0.093	6	71	607	5
⌈	**Cu**	**63**	**2.049**	ug/L	0.021	1	210	12471	0
⌊	**Cu**	**65**	**1.996**	ug/L	0.012	0	101	5934	1
⌈	**Zn**	**66**	**9.518**	ug/L	0.044	0	205	19137	0
⌊	**Zn**	**67**	**8.480**	ug/L	0.207	2	217	3051	2
⌊	**Zn**	**68**	**8.436**	ug/L	0.170	2	6749	17446	0
⌈	**As-1**	**75**	**0.297**	ug/L	0.012	4	480	925	2
⌊	**As**	**75**	**-0.225**	ug/L	0.012	5	8965	6820	0
⌈	**Se**	**82**	**0.083**	ug/L	0.032	38	-12	4	118
⌊	**Se**	**78**	**-2.191**	ug/L	0.087	3	9091	6345	0
⌊	**Mo**	**98**	**0.182**	ug/L	0.005	3	27	1090	2
	Y	**89**		ug/L			305272	299994	0
	Kr	**83**		ug/L			263	181	3
⌈>	**In**	**115**		ug/L			454742	391254	0
⌈	**Ag**	**107**	**0.004**	ug/L	0.000	11	46	83	5
⌊	**Cd**	**111**	**0.018**	ug/L	0.003	15	208	234	3
⌈	**Cd**	**114**	**0.021**	ug/L	0.002	10	18	170	9
⌊	**Sb**	**121**	**0.128**	ug/L	0.005	3	144	1571	3
⌈	**Sb**	**123**	**0.125**	ug/L	0.006	4	121	1181	3
⌈	**Ba**	**135**	**1.562**	ug/L	0.035	2	20	3966	2
⌊	**Ba**	**137**	**1.554**	ug/L	0.036	2	29	6682	1
⌈>	**Tb**	**159**		ug/L			437751	453649	0
⌈	**Tl**	**205**	**-0.003**	ug/L	0.000	13	243	147	8
⌊	**Pb**	**208**	**0.060**	ug/L	0.002	2	830	3583	2
⌈	**Bi**	**209**		ug/L			369705	376390	0
⌊	**Th**	**232**	**0.009**	ug/L	0.001	5	282	790	4
⌊	**U**	**238**	**0.003**	ug/L	0.000	6	35	227	4

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV11
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, March 31, 2010 00:52:23
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			287408	567510	1
[	Be	9	44.072	ug/L	0.324	0	5	32349	1
	C	13		mg/L			6024	5864	1
	Cl	37		mg/L			3017573	2320610	0
[>	Sc	45		ug/L			274724	235817	0
[	V-1	51	49.357	ug/L	1.057	2	1520	537661	2
[	V	51	48.919	ug/L	1.073	2	8388	549570	2
[	Cr	52	48.770	ug/L	0.333	0	5986	481889	1
[	Cr	53	47.483	ug/L	0.380	0	2872	58261	1
[	Mn	55	48.408	ug/L	0.742	1	440	813204	1
[	Co	59	46.139	ug/L	1.079	2	54	614847	2
[>	Ge	72		ug/L			407406	316397	0
[	Ni	60	51.772	ug/L	0.570	1	87	127469	1
[	Ni	62	51.245	ug/L	0.248	0	71	19419	0
[	Cu	63	51.133	ug/L	0.264	0	210	295805	1
[	Cu	65	49.713	ug/L	0.224	0	101	140443	1
[	Zn	66	51.001	ug/L	0.892	1	205	98053	2
[	Zn	67	49.369	ug/L	0.778	1	217	16294	1
[	Zn	68	49.122	ug/L	0.077	0	6749	72553	0
[	As-1	75	50.993	ug/L	0.149	0	480	89402	1
[	As	75	49.548	ug/L	0.098	0	8965	93882	0
[	Se	82	57.623	ug/L	0.537	0	-12	9644	1
[	Se	78	51.553	ug/L	0.418	0	9091	29429	0
[	Mo	98	56.207	ug/L	0.123	0	27	318098	0
	Y	89		ug/L			305272	279173	1
	Kr	83		ug/L			263	185	2
[>	In	115		ug/L			454742	372013	1
[	Ag	107	51.594	ug/L	0.871	1	46	610949	0
[	Cd	111	52.291	ug/L	0.323	0	208	152290	1
[	Cd	114	51.964	ug/L	0.910	1	18	358006	0
[	Sb	121	49.708	ug/L	0.568	1	144	536056	0
[	Sb	123	49.419	ug/L	0.701	1	121	403708	1
[	Ba	135	49.655	ug/L	0.628	1	20	119348	0
[	Ba	137	49.955	ug/L	0.039	0	29	203480	1
[>	Tb	159		ug/L			437751	426831	0
[	Tl	205	47.757	ug/L	0.586	1	243	1523563	0
[	Pb	208	49.798	ug/L	0.519	1	830	2113613	0
[	Bi	209		ug/L			369705	358419	0
[	Th	232	54.714	ug/L	0.931	1	282	2877154	1
[	U	238	56.093	ug/L	0.558	0	35	3207770	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB11
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, March 31, 2010 00:59:47
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			287408	583667	1
[	Be	9	0.020	ug/L	0.012	61	5	27	33
	C	13		mg/L			6024	5618	0
	Cl	37		mg/L			3017573	2328856	0
[>	Sc	45		ug/L			274724	238463	0
[	V-1	51	0.020	ug/L	0.012	58	1520	1538	8
[	V	51	-0.262	ug/L	0.018	6	8388	4346	4
[	Cr	52	-0.066	ug/L	0.009	14	5986	4540	2
[	Cr	53	-0.911	ug/L	0.096	10	2872	1411	8
[	Mn	55	0.036	ug/L	0.012	32	440	996	19
[	Co	59	0.032	ug/L	0.011	33	54	482	30
[>	Ge	72		ug/L			407406	317140	0
[	Ni	60	0.037	ug/L	0.012	32	87	159	18
[	Ni	62	0.915	ug/L	0.063	6	71	402	5
[	Cu	63	0.071	ug/L	0.021	30	210	572	21
[	Cu	65	0.049	ug/L	0.017	34	101	218	21
[	Zn	66	0.072	ug/L	0.004	6	205	297	2
[	Zn	67	-0.064	ug/L	0.037	57	217	147	8
[	Zn	68	-0.878	ug/L	0.018	2	6749	4048	0
[	As-1	75	0.031	ug/L	0.012	37	480	428	4
[	As	75	-0.506	ug/L	0.018	3	8965	6088	0
[	Se	82	0.086	ug/L	0.048	55	-12	5	160
[	Se	78	-2.233	ug/L	0.034	1	9091	6105	0
[	Mo	98	0.079	ug/L	0.014	17	27	472	16
	Y	89		ug/L			305272	284767	0
	Kr	83		ug/L			263	178	4
[>	In	115		ug/L			454742	374561	0
[	Ag	107	0.051	ug/L	0.012	22	46	647	21
[	Cd	111	0.032	ug/L	0.023	73	208	264	25
[	Cd	114	0.040	ug/L	0.012	30	18	290	28
[	Sb	121	0.166	ug/L	0.049	29	144	1915	27
[	Sb	123	0.162	ug/L	0.063	38	121	1429	35
[	Ba	135	0.046	ug/L	0.013	28	20	127	24
[	Ba	137	0.044	ug/L	0.017	37	29	205	33
[>	Tb	159		ug/L			437751	434257	0
[	Tl	205	0.045	ug/L	0.014	31	243	1697	26
[	Pb	208	0.046	ug/L	0.015	32	830	2813	22
[	Bi	209		ug/L			369705	367010	0
[	Th	232	0.090	ug/L	0.016	17	282	5111	16
[	U	238	0.042	ug/L	0.014	33	35	2489	33

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QN10 MB SWN
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, March 31, 2010 01:07:11
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
⌈>	Li	6		ug/L			287408	597262	1
⌊	Be	9	-0.011	ug/L	0.002	15	5	3	33
	C	13		mg/L			6024	5787	1
	Cl	37		mg/L			3017573	2324695	0
⌈>	Sc	45		ug/L			274724	242506	1
|	V-1	51	-0.004	ug/L	0.020	516	1520	1297	17
|	V	51	-0.299	ug/L	0.015	4	8388	3994	2
|	Cr	52	-0.102	ug/L	0.015	14	5986	4255	1
|	Cr	53	-0.986	ug/L	0.080	8	2872	1343	6
|	Mn	55	0.009	ug/L	0.001	15	440	547	6
⌊	Co	59	0.044	ug/L	0.001	2	54	648	3
⌈>	Ge	72		ug/L			407406	321405	0
|	Ni	60	0.000	ug/L	0.003	106674	87	68	13
|	Ni	62	0.791	ug/L	0.027	3	71	359	2
|	Cu	63	0.055	ug/L	0.003	4	210	489	2
|	Cu	65	0.034	ug/L	0.008	23	101	177	12
|	Zn	66	0.089	ug/L	0.009	9	205	336	5
|	Zn	67	-0.102	ug/L	0.014	13	217	137	4
|	Zn	68	-0.951	ug/L	0.049	5	6749	4000	1
|	As-1	75	-0.028	ug/L	0.011	37	480	329	5
|	As	75	-0.566	ug/L	0.057	10	8965	6064	1
|	Se	82	0.065	ug/L	0.047	72	-12	1	529
|	Se	78	-2.306	ug/L	0.218	9	9091	6155	0
⌊	Mo	98	0.009	ug/L	0.002	24	27	73	16
	Y	89		ug/L			305272	289729	1
	Kr	83		ug/L			263	172	2
⌈>	In	115		ug/L			454742	382290	1
|	Ag	107	0.008	ug/L	0.002	25	46	137	17
|	Cd	111	-0.002	ug/L	0.006	271	208	168	11
|	Cd	114	0.006	ug/L	0.002	34	18	57	24
|	Sb	121	0.028	ug/L	0.004	15	144	426	11
|	Sb	123	0.025	ug/L	0.003	11	121	315	6
|	Ba	135	0.010	ug/L	0.001	9	20	41	4
⌊	Ba	137	0.012	ug/L	0.003	26	29	72	18
⌈>	Tb	159		ug/L			437751	438665	1
|	Tl	205	0.009	ug/L	0.001	7	243	537	5
|	Pb	208	0.007	ug/L	0.001	10	830	1149	3
|	Bi	209		ug/L			369705	372595	1
|	Th	232	0.015	ug/L	0.005	30	282	1108	21
⌊	U	238	0.006	ug/L	0.001	15	35	395	13

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QN10 MBSPK SWN
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, March 31, 2010 01:13:55
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
⌈>	Li	6		ug/L			287408	588040	0
⌊	Be	9	21.696	ug/L	0.447	2	5	16507	1
	C	13		mg/L			6024	5566	1
	Cl	37		mg/L			3017573	2306898	0
⌈>	Sc	45		ug/L			274724	242862	1
⌈	V-1	51	24.334	ug/L	0.190	0	1520	273651	0
⌈	V	51	23.919	ug/L	0.364	1	8388	280493	0
⌈	Cr	52	24.678	ug/L	0.063	0	5986	253734	1
⌈	Cr	53	23.405	ug/L	0.665	2	2872	30859	2
⌈	Mn	55	24.413	ug/L	0.410	1	440	422492	0
⌊	Co	59	23.296	ug/L	0.264	1	54	319706	0
⌈>	Ge	72		ug/L			407406	317940	0
⌈	Ni	60	26.675	ug/L	0.134	0	87	66027	0
⌈	Ni	62	27.012	ug/L	0.388	1	71	10312	1
⌈	Cu	63	26.751	ug/L	0.224	0	210	155585	0
⌈	Cu	65	25.952	ug/L	0.175	0	101	73709	0
⌈	Zn	66	82.599	ug/L	0.558	0	205	159466	0
⌈	Zn	67	74.026	ug/L	0.357	0	217	24468	0
⌈	Zn	68	79.071	ug/L	0.156	0	6749	114145	0
⌈	As-1	75	26.717	ug/L	0.196	0	480	47247	0
⌈	As	75	24.995	ug/L	0.218	0	8965	51056	0
⌈	Se	82	90.749	ug/L	0.572	0	-12	15267	0
⌈	Se	78	82.441	ug/L	0.424	0	9091	43041	0
⌊	Mo	98	0.017	ug/L	0.001	8	27	117	7
	Y	89		ug/L			305272	286036	1
	Kr	83		ug/L			263	185	4
⌈>	In	115		ug/L			454742	380590	0
⌈	Ag	107	24.923	ug/L	0.287	1	46	301996	0
⌈	Cd	111	26.124	ug/L	0.201	0	208	77928	0
⌈	Cd	114	25.943	ug/L	0.272	1	18	182892	0
⌈	Sb	121	0.014	ug/L	0.001	4	144	271	2
⌈	Sb	123	0.012	ug/L	0.002	18	121	201	9
⌈	Ba	135	24.606	ug/L	0.289	1	20	60523	1
⌊	Ba	137	25.141	ug/L	0.181	0	29	104777	0
⌈>	Tb	159		ug/L			437751	436951	0
⌈	Tl	205	24.150	ug/L	0.126	0	243	788895	1
⌈	Pb	208	25.265	ug/L	0.183	0	830	1098219	0
⌈	Bi	209		ug/L			369705	368684	0
⌈	Th	232	25.200	ug/L	0.091	0	282	1356834	0
⌊	U	238	25.968	ug/L	0.253	0	35	1520353	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QN10 A SWN
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, March 31, 2010 01:20:39
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			287408	592118	1
[	Be	9	0.511	ug/L	0.028	5	5	403	5
	C	13		mg/L			6024	6035	1
	Cl	37		mg/L			3017573	2226369	0
[>	Sc	45		ug/L			274724	314725	0
[	V-1	51	33.209	ug/L	0.218	0	1520	483340	0
[	V	51	32.409	ug/L	0.291	0	8388	489119	0
[	Cr	52	11.842	ug/L	0.056	0	5986	161355	1
[	Cr	53	10.708	ug/L	0.198	1	2872	20081	0
[	Mn	55	460.500	ug/L	2.924	0	440	10319645	0
[	Co	59	7.488	ug/L	0.025	0	54	133221	0
[>	Ge	72		ug/L			407406	324393	0
[	Ni	60	13.163	ug/L	0.194	1	87	33277	1
[	Ni	62	22.497	ug/L	0.251	1	71	8772	1
[	Cu	63	15.670	ug/L	0.053	0	210	93054	0
[	Cu	65	15.828	ug/L	0.357	2	101	45895	1
[	Zn	66	50.069	ug/L	0.093	0	205	98690	0
[	Zn	67	49.954	ug/L	0.545	1	217	16902	1
[	Zn	68	49.013	ug/L	0.533	1	6749	74228	0
[	As-1	75	2.176	ug/L	0.006	0	480	4276	0
[	As	75	1.521	ug/L	0.017	1	8965	9874	0
[	Se	82	0.076	ug/L	0.022	29	-12	3	116
[	Se	78	-2.413	ug/L	0.050	2	9091	6165	0
[	Mo	98	0.208	ug/L	0.011	5	27	1230	5
	Y	89		ug/L			305272	645682	0
	Kr	83		ug/L			263	228	3
[>	In	115		ug/L			454742	379878	0
[	Ag	107	0.123	ug/L	0.005	3	46	1526	3
[	Cd	111	0.767	ug/L	0.020	2	208	2452	3
[	Cd	114	0.156	ug/L	0.006	3	18	1113	3
[	Sb	121	0.018	ug/L	0.002	9	144	319	6
[	Sb	123	0.016	ug/L	0.005	31	121	230	17
[	Ba	135	155.149	ug/L	1.490	0	20	380796	0
[	Ba	137	156.740	ug/L	0.692	0	29	651901	1
[>	Tb	159		ug/L			437751	458192	0
[	Tl	205	0.140	ug/L	0.004	2	243	5056	3
[	Pb	208	6.809	ug/L	0.041	0	830	310974	0
[	Bi	209		ug/L			369705	372417	0
[	Th	232	4.121	ug/L	0.052	1	282	232912	0
[	U	238	0.679	ug/L	0.008	1	35	41722	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QN10 B SWN
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, March 31, 2010 01:28:23
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
>	Li	6		ug/L			287408	598511	0
	Be	9	0.394	ug/L	0.028	7	5	316	7
	C	13		mg/L			6024	6353	0
	Cl	37		mg/L			3017573	2127997	5
>	Sc	45		ug/L			274724	307084	0
	V-1	51	34.309	ug/L	0.633	1	1520	487171	1
	V	51	33.483	ug/L	0.585	1	8388	492766	1
	Cr	52	11.866	ug/L	0.160	1	5986	157737	1
	Cr	53	10.720	ug/L	0.064	0	2872	19613	0
	Mn	55	401.733	ug/L	3.572	0	440	8784395	1
	Co	59	7.161	ug/L	0.040	0	54	124317	1
>	Ge	72		ug/L			407406	323906	0
	Ni	60	13.286	ug/L	0.298	2	87	33539	2
	Ni	62	21.309	ug/L	0.262	1	71	8300	1
	Cu	63	16.683	ug/L	0.062	0	210	98913	0
	Cu	65	16.819	ug/L	0.119	0	101	48693	0
	Zn	66	52.032	ug/L	0.527	1	205	102403	1
	Zn	67	50.347	ug/L	0.208	0	217	17008	0
	Zn	68	50.570	ug/L	0.181	0	6749	76306	0
	As-1	75	2.000	ug/L	0.016	0	480	3956	0
	As	75	1.326	ug/L	0.036	2	8965	9509	0
	Se	82	0.079	ug/L	0.034	43	-12	3	151
	Se	78	-2.564	ug/L	0.092	3	9091	6089	0
	Mo	98	0.241	ug/L	0.005	1	27	1419	2
	Y	89		ug/L			305272	589920	0
	Kr	83		ug/L			263	215	2
>	In	115		ug/L			454742	381573	0
	Ag	107	0.109	ug/L	0.004	3	46	1366	2
	Cd	111	0.796	ug/L	0.035	4	208	2551	4
	Cd	114	0.144	ug/L	0.003	2	18	1030	1
	Sb	121	0.014	ug/L	0.001	9	144	275	5
	Sb	123	0.015	ug/L	0.002	10	121	225	5
	Ba	135	131.404	ug/L	0.482	0	20	323969	0
	Ba	137	133.617	ug/L	0.389	0	29	558203	0
>	Tb	159		ug/L			437751	455385	1
	Tl	205	0.116	ug/L	0.004	3	243	4213	1
	Pb	208	6.322	ug/L	0.037	0	830	287028	0
	Bi	209		ug/L			369705	371593	0
	Th	232	3.567	ug/L	0.034	0	282	200391	0
	U	238	0.549	ug/L	0.008	1	35	33510	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QN10 C SWN
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, March 31, 2010 01:36:09
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
⌈>	Li	6		ug/L			287408	594129	0
⌊	Be	9	0.449	ug/L	0.041	9	5	357	9
	C	13		mg/L			6024	5959	1
	Cl	37		mg/L			3017573	2140757	6
⌈>	Sc	45		ug/L			274724	316111	0
⌈	V-1	51	33.711	ug/L	0.296	0	1520	492773	0
⌊	V	51	32.822	ug/L	0.273	0	8388	497420	0
⌈	Cr	52	11.160	ug/L	0.132	1	5986	153121	0
⌊	Cr	53	9.831	ug/L	0.220	2	2872	18788	0
⌈	Mn	55	469.147	ug/L	2.095	0	440	10559516	0
⌊	Co	59	7.517	ug/L	0.072	0	54	134319	1
⌈>	Ge	72		ug/L			407406	322828	1
⌈	Ni	60	13.416	ug/L	0.216	1	87	33750	1
⌊	Ni	62	21.474	ug/L	0.204	0	71	8335	0
⌈	Cu	63	18.323	ug/L	0.032	0	210	108255	1
⌊	Cu	65	18.439	ug/L	0.132	0	101	53196	0
⌈	Zn	66	51.899	ug/L	0.235	0	205	101796	1
⌊	Zn	67	51.619	ug/L	0.660	1	217	17375	1
⌈	Zn	68	51.134	ug/L	0.484	0	6749	76835	0
⌈	As-1	75	1.737	ug/L	0.018	1	480	3473	0
⌊	As	75	1.082	ug/L	0.037	3	8965	9039	0
⌈	Se	82	0.002	ug/L	0.051	3303	-12	-9	92
⌊	Se	78	-2.451	ug/L	0.171	6	9091	6118	0
⌊	Mo	98	0.167	ug/L	0.005	3	27	987	3
	Y	89		ug/L			305272	640368	0
	Kr	83		ug/L			263	235	2
⌈>	In	115		ug/L			454742	378611	0
⌈	Ag	107	0.104	ug/L	0.004	4	46	1289	3
⌈	Cd	111	0.714	ug/L	0.036	5	208	2288	4
⌊	Cd	114	0.185	ug/L	0.005	2	18	1314	2
⌈	Sb	121	0.011	ug/L	0.001	11	144	237	5
⌊	Sb	123	0.010	ug/L	0.003	26	121	183	11
⌈	Ba	135	164.948	ug/L	1.716	1	20	403489	0
⌊	Ba	137	166.030	ug/L	1.808	1	29	688202	0
⌈>	Tb	159		ug/L			437751	460674	1
⌈	Tl	205	0.132	ug/L	0.001	0	243	4817	1
⌈	Pb	208	7.239	ug/L	0.105	1	830	332343	0
⌈	Bi	209		ug/L			369705	373815	0
⌈	Th	232	3.704	ug/L	0.028	0	282	210520	0
⌊	U	238	0.576	ug/L	0.007	1	35	35586	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QM04 H REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Wednesday, March 31, 2010 01:42:54
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
⌈>	**Li**	**6**		ug/L			287408	606898	0
⌊	**Be**	**9**	**-0.010**	ug/L	0.002	24	5	4	41
	C	**13**		mg/L			6024	8408	2
	Cl	**37**		mg/L			3017573	2236757	0
⌈>	**Sc**	**45**		ug/L			274724	245573	0
⌈	**V-1**	**51**	**0.363**	ug/L	0.010	2	1520	5467	2
⌊	**V**	**51**	**0.018**	ug/L	0.009	51	8388	7703	0
⌈	**Cr**	**52**	**0.378**	ug/L	0.006	1	5986	9198	1
⌊	**Cr**	**53**	**-0.665**	ug/L	0.045	6	2872	1754	2
⌈	**Mn**	**55**	**0.854**	ug/L	0.053	6	440	15315	5
⌊	**Co**	**59**	**0.013**	ug/L	0.001	6	54	232	4
⌈>	**Ge**	**72**		ug/L			407406	316825	0
⌈	**Ni**	**60**	**0.337**	ug/L	0.028	8	87	897	7
⌊	**Ni**	**62**	**0.883**	ug/L	0.063	7	71	389	6
⌈	**Cu**	**63**	**1.886**	ug/L	0.024	1	210	11083	1
⌊	**Cu**	**65**	**1.838**	ug/L	0.038	2	101	5275	2
⌈	**Zn**	**66**	**12.565**	ug/L	0.164	1	205	24308	1
⌊	**Zn**	**67**	**10.892**	ug/L	0.152	1	217	3731	1
⌈	**Zn**	**68**	**10.909**	ug/L	0.101	0	6749	20217	0
⌈	**As-1**	**75**	**0.294**	ug/L	0.013	4	480	887	2
⌊	**As**	**75**	**-0.228**	ug/L	0.017	7	8965	6571	0
⌈	**Se**	**82**	**0.059**	ug/L	0.045	77	-12	0	1964
⌊	**Se**	**78**	**-2.166**	ug/L	0.098	4	9091	6128	0
⌊	**Mo**	**98**	**0.154**	ug/L	0.006	3	27	895	3
	Y	**89**		ug/L			305272	290852	0
	Kr	**83**		ug/L			263	183	3
⌈>	**In**	**115**		ug/L			454742	381304	1
⌈	**Ag**	**107**	**0.004**	ug/L	0.000	8	46	89	4
⌈	**Cd**	**111**	**0.025**	ug/L	0.009	35	208	248	9
⌊	**Cd**	**114**	**0.022**	ug/L	0.001	5	18	174	4
⌈	**Sb**	**121**	**0.123**	ug/L	0.004	3	144	1479	1
⌊	**Sb**	**123**	**0.120**	ug/L	0.004	3	121	1107	2
⌈	**Ba**	**135**	**1.508**	ug/L	0.047	3	20	3731	2
⌊	**Ba**	**137**	**1.526**	ug/L	0.032	2	29	6395	1
⌈>	**Tb**	**159**		ug/L			437751	442497	0
⌈	**Tl**	**205**	**-0.002**	ug/L	0.001	27	243	168	12
⌊	**Pb**	**208**	**0.057**	ug/L	0.001	2	830	3330	1
⌈	**Bi**	**209**		ug/L			369705	368757	0
⌊	**Th**	**232**	**0.019**	ug/L	0.002	13	282	1305	10
⌊	**U**	**238**	**0.004**	ug/L	0.000	13	35	245	10

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV12
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, March 31, 2010 01:49:41
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			287408	521833	0
[	Be	9	43.948	ug/L	0.438	0	5	29661	0
	C	13		mg/L			6024	5595	2
	Cl	37		mg/L			3017573	2148713	7
[>	Sc	45		ug/L			274724	212801	0
[	V-1	51	49.230	ug/L	0.530	1	1520	483904	0
[	V	51	48.740	ug/L	0.648	1	8388	494110	1
[	Cr	52	48.783	ug/L	0.190	0	5986	434966	0
[	Cr	53	47.334	ug/L	0.446	0	2872	52415	0
[	Mn	55	48.533	ug/L	0.260	0	440	735694	0
[	Co	59	45.659	ug/L	0.281	0	54	549040	0
[>	Ge	72		ug/L			407406	283974	0
[	Ni	60	51.319	ug/L	0.166	0	87	113403	0
[	Ni	62	50.997	ug/L	0.372	0	71	17345	0
[	Cu	63	50.585	ug/L	0.208	0	210	262644	0
[	Cu	65	49.323	ug/L	0.661	1	101	125063	1
[	Zn	66	51.699	ug/L	0.462	0	205	89203	1
[	Zn	67	49.035	ug/L	0.355	0	217	14527	0
[	Zn	68	49.504	ug/L	0.384	0	6749	65586	0
[	As-1	75	51.090	ug/L	0.228	0	480	80390	0
[	As	75	49.969	ug/L	0.243	0	8965	84923	0
[	Se	82	57.654	ug/L	0.555	0	-12	8660	1
[	Se	78	53.036	ug/L	0.719	1	9091	26991	0
[	Mo	98	56.018	ug/L	0.381	0	27	284546	0
	Y	89		ug/L			305272	252576	0
	Kr	83		ug/L			263	189	1
[>	In	115		ug/L			454742	333578	0
[	Ag	107	51.108	ug/L	0.422	0	46	542763	0
[	Cd	111	51.623	ug/L	0.105	0	208	134822	0
[	Cd	114	51.875	ug/L	0.193	0	18	320530	0
[	Sb	121	50.231	ug/L	0.055	0	144	485791	0
[	Sb	123	50.015	ug/L	0.059	0	121	366394	0
[	Ba	135	49.410	ug/L	0.301	0	20	106502	0
[	Ba	137	50.403	ug/L	0.433	0	29	184092	0
[>	Tb	159		ug/L			437751	386779	0
[	Tl	205	47.783	ug/L	0.184	0	243	1381428	0
[	Pb	208	49.776	ug/L	0.405	0	830	1914516	0
[	Bi	209		ug/L			369705	322532	0
[	Th	232	54.948	ug/L	0.347	0	282	2618499	0
[	U	238	56.404	ug/L	0.502	0	35	2922959	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB12
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, March 31, 2010 01:57:09
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\033010.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			287408	528712	1
[	Be	9	0.025	ug/L	0.010	41	5	27	27
	C	13		mg/L			6024	5357	1
	Cl	37		mg/L			3017573	2169061	6
[>	Sc	45		ug/L			274724	214802	1
[	V-1	51	0.032	ug/L	0.014	45	1520	1499	8
[	V	51	-0.247	ug/L	0.030	12	8388	4061	6
[	Cr	52	-0.077	ug/L	0.004	5	5986	3996	0
[	Cr	53	-0.911	ug/L	0.056	6	2872	1271	3
[	Mn	55	0.045	ug/L	0.009	20	440	1027	12
[	Co	59	0.036	ug/L	0.007	20	54	482	17
[>	Ge	72		ug/L			407406	283157	0
[	Ni	60	0.030	ug/L	0.004	12	87	127	6
[	Ni	62	0.642	ug/L	0.046	7	71	266	5
[	Cu	63	0.066	ug/L	0.016	24	210	485	17
[	Cu	65	0.049	ug/L	0.010	19	101	195	13
[	Zn	66	0.077	ug/L	0.020	26	205	274	12
[	Zn	67	-0.053	ug/L	0.073	138	217	135	16
[	Zn	68	-0.686	ug/L	0.037	5	6749	3848	0
[	As-1	75	0.047	ug/L	0.013	26	480	407	5
[	As	75	-0.201	ug/L	0.022	10	8965	5916	1
[	Se	82	0.037	ug/L	0.063	167	-12	-2	334
[	Se	78	-0.991	ug/L	0.063	6	9091	5934	0
[	Mo	98	0.087	ug/L	0.010	11	27	459	11
	Y	89		ug/L			305272	252336	0
	Kr	83		ug/L			263	178	4
[>	In	115		ug/L			454742	331822	0
[	Ag	107	0.051	ug/L	0.012	23	46	574	21
[	Cd	111	0.032	ug/L	0.016	51	208	235	17
[	Cd	114	0.041	ug/L	0.009	20	18	264	19
[	Sb	121	0.164	ug/L	0.047	28	144	1684	26
[	Sb	123	0.165	ug/L	0.048	29	121	1293	26
[	Ba	135	0.043	ug/L	0.005	11	20	106	9
[	Ba	137	0.053	ug/L	0.015	27	29	212	24
[>	Tb	159		ug/L			437751	386684	1
[	Tl	205	0.042	ug/L	0.010	22	243	1426	18
[	Pb	208	0.043	ug/L	0.012	28	830	2402	18
[	Bi	209		ug/L			369705	327051	0
[	Th	232	0.101	ug/L	0.013	13	282	5063	11
[	U	238	0.044	ug/L	0.010	22	35	2302	21

Metals Analysis
Prep Logs

prepared
for

Floyd/Snider

Project: Lora Lake Apartments, POS-LLA

ARI JOB NO: QM04

prepared
by

Analytical Resources, Inc.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

SPIKING LOG

Analyst: DM
Date: 3-3-10

Final Volume 25
Final Volume (Hg):

Sample ID QM04 ASPK, MBISPK
ESPK, MB2SPK

	Prepcode:			
	Spike Solution:	ICP Routine	ICP No GFA	GFA
	Standard No.:			
	Vol Added (mL):			
STOCK CONCENTRATION	Ag	50		2.0
	Al	200	200	
	As	200		10
	Ba	200	200	
	Be	50	50	
	Ca	1000	1000	
	Cd	50		2.0
	Co	50	50	
	Cr	50	50	
	Cu	50	50	
	Fe	200	200	
	K	1000	1000	
	Mg	1000	1000	
	Mn	50	50	
	Na	1000	1000	
	Ni	50	50	
	Pb	200		10
	Se	200		10
	Sr	50	50	
	Tl	200		10
	V	50	50	
	Zn	50	50	

	REN		
	ICP-MS #1	ICP-MS #2	ICP-MS Minerals
	2680-14		
	0.05		
Ag	25		
Al			500
As	25 ✓		
Ba	25		
Be	25		
Ca			500
Cd	25		
Co	25		
Cr	25		
Cu	25		
Fe			500
K			500
Mg			500
Mn	25		
Mo		25	
Na			500
Ni	25		
Pb	25		
Sb		25	
Se	80		
Tl	25		
U	25		
V	25		
Zn	80		

Element	Prepcode	Analysis	Stock Conc.	Stock Added	Std No.
Hg		CVA	1.0		
Hg MBSPK		CVA	1.0		
Sb		ICP	2000		
Sb		GFA	100		
B		ICP	500		
Mo		ICP	500		
Si		ICP	10000		
Sn		ICP	500		
Ti		ICP	2000		

Additional Elements:

Element	Prepcode	Analysis	Stock Conc.	Stock Added	Std. No.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Digestion Log

Analyst: TDM
Matrix: Water

Date: 3.03.10
Block Temp: 92°C

ARI Sample ID	Btl #	pH<2	Prep Code: REN Initial ~~Wt (g)~~ Vol (mL)	Prep Code: REN Final Vol (mL)	Prep Code: Initial Wt (g) Vol (mL)	Prep Code: Final Vol (mL)	Comments
QLT1 A	3	✓	50.0	25.0			
" B	3	✓					
" MB	—	✓					
" MBSPK	—	✓					
QM04 A	1	✓					
" ADUP	1	✓					
" ASPK	1	✓					
" B	1	✓					
" C	1	✓					
" D	1	✓					
" MB1	—	✓					
" MB1SPK	—	✓					
" E	1	—					Filtered in Lab
" EDUP	1	—					" "
" ESPK	1	—					" "
" F	1	—					" "
" G	1	—					" "
" H	1	—					" "
" MB2	—	—					" "
" MB2SPK	—	—					" "
QM22 A	1	✓					
" MB	—	✓	↓	↓			
" MBSPK	—	✓	50.0	25.0			
			3.3.10 TDM				

Chemical/Reagent ID:
HNO_3: MP1634 HCl: — H_2O_2: I5867 Tube Lot #: AP09LS162

QM04 : 00504

General Chemistry Analysis
QC Summary Data

prepared
for

Floyd/Snider

Project: Lora Lake Apartments, POS-LLA

ARI JOB NO: QM04

prepared
by

Analytical Resources, Inc.

REPLICATE RESULTS-CONVENTIONALS
QM04-Floyd/Snider

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 03/03/10

Project: Lora Lake Apartments
Event: POS-LLA
Date Sampled: 02/27/10
Date Received: 03/01/10

Analyte	Date	Units	Sample	Replicate(s)	RPD/RSD
ARI ID: QM04A Client ID: CB31A022710COMP					
Total Suspended Solids	03/02/10	mg/L	24.1	22.6	6.4%

LAB CONTROL RESULTS-CONVENTIONALS
QM04-Floyd/Snider

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 03/03/10

Project: Lora Lake Apartments
Event: POS-LLA
Date Sampled: NA
Date Received: NA

Analyte	Date/Time	Units	LCS	Spike Added	Recovery
Total Suspended Solids	03/02/10 14:01	mg/L	49.6	50.0	99.2%

METHOD BLANK RESULTS-CONVENTIONALS
QM04-Floyd/Snider

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 03/03/10

Project: Lora Lake Apartments
Event: POS-LLA
Date Sampled: NA
Date Received: NA

Analyte	Date/Time	Units	Blank
Total Suspended Solids	03/02/10 14:01	mg/L	< 1.0 U

General Chemistry Analysis
Sample Data

prepared
for

Floyd/Snider

Project: Lora Lake Apartments, POS-LLA

ARI JOB NO: QM04

prepared
by

Analytical Resources, Inc.

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
Total Suspended Solids by Method EPA 160.2

Data Release Authorized:
Reported: 03/03/10
Date Received: 03/01/10
Page 1 of 1

QC Report No: QM04-Floyd/Snider
Project: Lora Lake Apartments
POS-LLA

Client/ ARI ID	Date Sampled	Matrix	Analysis Date & Batch	RL	Result
CB31A022710COMP QM04A 10-5087	02/27/10	Water	03/02/10 14:01 030210#1	1.2	24.1
CB4857022710COMP QM04B 10-5088	02/27/10	Water	03/02/10 14:01 030210#1	1.2	17.0
CB1022710COMP QM04C 10-5089	02/27/10	Water	03/02/10 14:01 030210#1	1.0	7.7
CB102022710COMP QM04D 10-5090	02/27/10	Water	03/02/10 14:01 030210#1	1.0	8.2

Reported in mg/L

RL-Analytical reporting limit
U-Undetected at reported detection limit

General Chemistry Analysis
Instrument Raw Data

prepared
for

Floyd/Snider

Project: Lora Lake Apartments, POS-LLA

ARI JOB NO: QM04

prepared
by

Analytical Resources, Inc.

3-2-10

TOTAL SUSPENDED SOLIDS / VOLATILE SUSPENDED SOLIDS (TSS / TVSS)

DATE: 3/2/2010
ANALYST: KE 14:01

Instrumentation ***Drying Ovens:*** 12 ***Analytical Balance:*** 1123230597
Muffle Furnace: N/A

make no entries to shaded cells
they are calculated !!

TSS (mg/l) calculated as:
Final dry wt (mg) = (minimum Dry Wt - Tare Wt)*1000
TSS = [(Final Dry Wt)/ ml Sample] * 1000
if dy wt < 1mg, TSS = <1mg / mL sample * 1000
with "<" flag

Loss on ignition (LOI) = TVSS (mg/L) calculated as:
LOI (mg) = Dry wt(mg) -((min ash wt - tare wt) * 1000)
TVSS (mg/L) = LOI / mL sample * 1000
if LOI <1mg, TVSS = <1mg / mL sample * 1000
with "<" flag

LCS source: *Cellulose, MP Biomedicals Lot# 6399J* 0.05 grams to 1000 mL = **50** ***mg/L TSS***

SAMPLE ID	DISH #	filtered (mL)	TARE WT (grams)	DRY WT 104C (grams) 1	2	3	4	DryWT (mg)	TSS (mg/L)	ASH WT 550C (grams) 1	2	3	4	LOI (mg)	TVSS (mg/l)
Cal Weight ID			CV-02	CV-02	CV-02	CV-02	CV-02			CV-02	CV-02	CV-02	CV-02		
Date & Time				3/2/10 15:30 KE	3/2/10 16:50 KE										
Cal Wt (g) 10.0000				10.0000	10.0000										
record weights to 4 places				*Cal OK!*	*Cal OK!*										
BLANK		1000	0.1068	0.1069	0.1069	STOP		0.1	< 1						
LCS # 547 - 8		1000	0.1077	0.1573	0.1573	STOP		49.6	**49.6**	99.2%	% Recovery				
QM04 A1-12		800	0.1096	0.1292	0.1289	STOP		19.3	**24.1**						
QM04 A1-12 dup		800	0.1098	0.1283	0.1279	STOP		18.1	**22.6**						
								RPD =	*6.4%*					*RPD =*	*NA*
QM04 B5-6		820	0.1099	0.1238	0.1238	STOP		13.9	**17.0**						
QM04 C5-6		1000	0.1117	0.1194	0.1194	STOP		7.7	**7.7**						
QM04 D5-6		1000	0.1093	0.1175	0.1175	STOP		8.2	**8.2**						
QM11 Q4		290	0.1090	0.1242	0.1243	STOP		15.2	**52.4**						
QM11 Q4 dup		290	0.1090	0.1236	0.1235	STOP		14.5	**50.0**						
								RPD =	*4.7%*					*RPD =*	*NA*
QM14 A1		240	0.1079	0.1193	0.1193	STOP		11.4	**47.5**						
QM14 A1 dup		240	0.1080	0.1198	0.1196	STOP		11.6	**48.3**						
								RPD =	*1.7%*					*RPD =*	*NA*

TSS-VSS

TOTAL SUSPENDED SOLIDS / VOLATILE SUSPENDED SOLIDS (TSS / TVSS)

DATE: 3-2-10

ANALYST: (W) 14.01

Instrumentation

(T) 3-2-10 (W)

Drying Ovens: 12

Muffle Furnace: NA

Analytical Balance: 112320597

make no entries to shaded cells

they are calculated !!

(T) 820 3-2-10 (W)

TSS (mg/l) calculated as:
Final dry wt (mg) = (minimum Dry Wt - Tare Wt)*1000
TSS = [(Final Dry Wt)/ ml Sample] * 1000
if dy wt < 1mg, TSS = <1mg / mL sample * 1000
with "<" flag

Loss on ignition (LOI) = TVSS (mg/L) calculated as:
LOI (mg) = Dry wt(mg) -((min ash wt - tare wt) * 1000)
TVSS (mg/L) = LOI / mL sample * 1000
if LOI <1mg, TVSS = <1mg / mL sample * 1000
with "<" flag

LCS source: *Cellulose, MP Biomedicals Lot# 6399J* | 0.0500 | grams to | 1000 | mL = | **50** ***mg/L TSS***

SAMPLE ID	DISH #	filtered (mL)	TARE WT (grams)	DRY WT 104C (grams) 1	2	3	4	DryWT (mg)	TSS (mg/L)	ASH WT 550C (grams) 1	2	3	4	LOI (mg)	TVSS (mg/l)
Cal Weight ID			CV-02	CV-02	CV-02	CV-02	CV-02			CV-02	CV-02	CV-02	CV-02		
Date & Time				3-2-10 15:30 (W)	3-2-10 16:50 (W)										
Cal Wt (g) 10.0000				10.0000	10.0000										
record weights to 4 places															
BLANK	P1273	1000	0.1068	0.1069	0.1069										
LCS #547-8	P1270	1000	0.1077	0.1573	0.1573										
QM04 A 10-12	P1277	800	0.1096	0.1292	0.1289					% Recovery					
dpA 10-12	P1279	800	0.1098	0.1283	0.1279										
B 3-6	P1281	~~1000~~	0.1099	0.1238	0.1238										
C 5,6	P1282	1000	0.1017	0.1194	0.1194										
↓ D 5,6	P1285	1000	0.1093	0.1175	0.1175										
QM11 A4	P1171	290	0.1090	0.1242	0.1243										
↓ dpA4	P1177	290	0.1090	0.1236	0.1235										
QM14 C	P1178	240	0.1079	0.1193	0.1193										
↓ dpC	P1175	240	0.1080	0.1198	0.1196										
								3-2-10 (W)							

* 10-12 combined homogenized & ran 3-2-10 (W)

6054 TSS-VSS1

Subcontracted Results
Dioxin/Furans 1613(Sub) Analyzed by Frontier Analytical Laboratory

prepared
for

Floyd/Snider

Project: Lora Lake Apartments, POS-LLA

ARI JOB NO: QM04

prepared
by

Analytical Resources, Inc.

FRONTIER
ANALYTICAL LABORATORY

March 11, 2010

Ms. Sue Dunnihoo
Analytical Resources Incorporated
4611 South 134th Place
Tukwila, WA 98168-3240

Dear Ms. Dunnihoo,

Enclosed are the results for Frontier Analytical Laboratory project **6012**. This corresponds to your **Lora Lakes Apartments** project under ARI project number **QM04**. Four aqueous samples were received on 3/4/2010 in good condition. These samples were extracted and analyzed by EPA Method 1613 for tetra through octa chlorinated dibenzo dioxins and furans. The 2005 World Health Organizations toxic equivalency factors were used to calculate the toxic equivalency (TEQs) on your report. Analytical Resources Incorporated requested a Level IV report and a turnaround time of fifteen business days for project **6012**.

The following Level IV report consists of an Analytical Data section, a Sample Receipt section, a Laboratory Raw Data section, and an Instrument Raw Data section. The Analytical Data section contains our project-sample tracking log and the analytical results. The Sample Receipt section contains your original chain of custody, our sample login form and a sample photo. The Laboratory Raw Data section contains our project request sheet, a percent solids sheet, an extraction bench sheet, and the cleanup bench sheet. The instrument raw data section contains three sub-sections; the sample results section, the initial calibration section and the continuing/ending calibration section. The sample results sub-section consists of the quantitation summary forms with chromatograms for all samples and QC. The initial calibration sub-section consists of the individual quantitation summary forms and chromatograms for each point of the initial calibration curve as well as an overall quantitation summary form of the initial calibration curve. The continuing/ending calibration sub-section consists of the quantitation summary forms and chromatograms for all beginning and ending calibration injections associated with the samples and QC. The Level I summary and the Electronic Data Deliverables (EDDs) have been sent to you via email. A hardcopy of the Level IV data package has been sent to you via OnTrac overnight delivery. The enclosed results are specifically for the samples referenced in this report only. These results meet all NELAC requirements and shall not be reproduced except in full.

If you have any questions regarding project **6012**, please contact me at (916) 934-0900. Thank you for choosing Frontier Analytical Laboratory for your analytical testing needs.

Sincerely,

Bradley B. Silverbush
Director of Operations

FRONTIER ANALYTICAL LABORATORY
5172 Hillsdale Circle • El Dorado Hills, CA 95762
Tel (916) 934-0900 • Fax (916) 934-0999
www.frontieranalytical.com

Frontier Analytical Laboratory

Sample Tracking Log

FAL Project ID: **6012**

Received on: **03/04/2010** Project Due: **03/26/2010** Storage: **R2**

FAL Sample ID	Dup	Client Project ID	Client Sample ID	Requested Method	Matrix	Sampling Date	Sampling Time	Hold Time Due Date
6012-001-SA	0	QM04	CB31A022710COMP	EPA 1613 D/F	Aqueous	02/27/2010	01:11 am	02/27/2011
6012-002-SA	0	QM04	CB4857022710COMP	EPA 1613 D/F	Aqueous	02/27/2010	01:00 am	02/27/2011
6012-003-SA	0	QM04	CB1022710COMP	EPA 1613 D/F	Aqueous	02/27/2010	01:05 am	02/27/2011
6012-004-SA	0	QM04	CB102022710COMP	EPA 1613 D/F	Aqueous	02/27/2010	02:05 am	02/27/2011

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EPA Method 1613
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 6012-001-MB
Client ID: Method Blank
Matrix: Aqueous
Batch No: X1959

Date Extracted: 03-09-2010
Date Received: NA
Amount: 1.000 L

ICal: PCDDFAL3-11-18-09
GC Column: DB5
Units: pg/L

Acquired: 03-10-2010
2005 WHO TEQ: 0.00

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	1.80		-	0.212				
1,2,3,7,8-PeCDD	ND	1.62		-	0.302				
1,2,3,4,7,8-HxCDD	ND	1.69		-	0.328				
1,2,3,6,7,8-HxCDD	ND	2.02		-	0.381	Total TCDD	ND	1.80	
1,2,3,7,8,9-HxCDD	ND	1.84		-	0.351	Total PeCDD	ND	1.62	
1,2,3,4,6,7,8-HpCDD	ND	3.25		-	0.495	Total HxCDD	ND	2.02	
OCDD	ND	4.91		-	1.02	Total HpCDD	ND	3.25	
2,3,7,8-TCDF	ND	0.763		-	0.112				
1,2,3,7,8-PeCDF	ND	1.18		-	0.219				
2,3,4,7,8-PeCDF	ND	1.24		-	0.232				
1,2,3,4,7,8-HxCDF	ND	1.01		-	0.162				
1,2,3,6,7,8-HxCDF	ND	1.03		-	0.167				
2,3,4,6,7,8-HxCDF	ND	1.05		-	0.167				
1,2,3,7,8,9-HxCDF	ND	1.36		-	0.185	Total TCDF	ND	0.763	
1,2,3,4,6,7,8-HpCDF	ND	1.38		-	0.251	Total PeCDF	ND	1.24	
1,2,3,4,7,8,9-HpCDF	ND	1.64		-	0.280	Total HxCDF	ND	1.36	
OCDF	ND	3.25		-	0.451	Total HpCDF	ND	1.64	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	81.5	25.0 - 164	
13C-1,2,3,7,8-PeCDD	68.6	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	74.3	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	76.6	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	68.3	23.0 - 140	
13C-OCDD	69.4	17.0 - 157	
13C-2,3,7,8-TCDF	77.1	24.0 - 169	
13C-1,2,3,7,8-PeCDF	63.8	24.0 - 185	
13C-2,3,4,7,8-PeCDF	62.4	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	73.5	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	75.6	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	75.2	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	72.8	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	69.0	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	71.7	26.0 - 138	
13C-OCDF	66.1	17.0 - 157	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	101	35.0 - 197

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: _____
Date: 3/11/10

Reviewed By: _____
Date: 3/11/10

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EPA Method 1613
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 6012-001-OPR
Client ID: OPR
Matrix: Aqueous
Batch No: X1959

Date Extracted: 03-09-2010
Date Received: NA
Amount: 1.000 L

ICal: PCDDFAL3-11-18-09
GC Column: DB5
Units: ng/ml

Acquired: 03-10-2010
2005 WHO TEQ: NA

Compound	Conc	QC Limits	Qual
2,3,7,8-TCDD	10.3	6.70 - 15.8	
1,2,3,7,8-PeCDD	49.9	35.0 - 71.0	
1,2,3,4,7,8-HxCDD	50.1	35.0 - 82.0	
1,2,3,6,7,8-HxCDD	49.0	38.0 - 67.0	
1,2,3,7,8,9-HxCDD	48.1	32.0 - 81.0	
1,2,3,4,6,7,8-HpCDD	49.2	35.0 - 70.0	
OCDD	101	78.0 - 144	
2,3,7,8-TCDF	9.56	7.50 - 15.8	
1,2,3,7,8-PeCDF	50.6	40.0 - 67.0	
2,3,4,7,8-PeCDF	50.2	34.0 - 80.0	
1,2,3,4,7,8-HxCDF	49.8	36.0 - 67.0	
1,2,3,6,7,8-HxCDF	50.7	42.0 - 65.0	
2,3,4,6,7,8-HxCDF	48.9	35.0 - 78.0	
1,2,3,7,8,9-HxCDF	49.8	39.0 - 65.0	
1,2,3,4,6,7,8-HpCDF	49.3	41.0 - 61.0	
1,2,3,4,7,8,9-HpCDF	47.1	39.0 - 69.0	
OCDF	97.0	63.0 - 170	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	64.5	20.0 - 175	
13C-1,2,3,7,8-PeCDD	49.6	21.0 - 227	
13C-1,2,3,4,7,8-HxCDD	53.0	21.0 - 193	
13C-1,2,3,6,7,8-HxCDD	55.4	25.0 - 163	
13C-1,2,3,4,6,7,8-HpCDD	54.4	26.0 - 166	
13C-OCDD	57.7	13.0 - 198	
13C-2,3,7,8-TCDF	65.7	22.0 - 152	
13C-1,2,3,7,8-PeCDF	50.3	21.0 - 192	
13C-2,3,4,7,8-PeCDF	51.2	13.0 - 328	
13C-1,2,3,4,7,8-HxCDF	51.3	19.0 - 202	
13C-1,2,3,6,7,8-HxCDF	52.4	21.0 - 159	
13C-2,3,4,6,7,8-HxCDF	52.5	22.0 - 176	
13C-1,2,3,7,8,9-HxCDF	51.2	17.0 - 205	
13C-1,2,3,4,6,7,8-HpCDF	52.1	21.0 - 158	
13C-1,2,3,4,7,8,9-HpCDF	55.9	20.0 - 186	
13C-OCDF	55.4	13.0 - 198	

Cleanup Surrogate			
37Cl-2,3,7,8-TCDD	82.0	31.0 - 191	

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: _____
Date: 3/11/10

Reviewed By: DN
Date: 3/11/10

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EPA Method 1613
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 6012-001-SA
Client ID: CB31A022710COMP
Matrix: Aqueous
Batch No: X1959

Date Extracted: 03-09-2010
Date Received: 03-04-2010
Amount: 1.037 L

ICal: PCDDFAL3-11-18-09
GC Column: DB5
Units: pg/L

Acquired: 03-10-2010
2005 WHO TEQ: 15.4

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	1.67		-	0.212				
1,2,3,7,8-PeCDD	ND	2.66		-	0.302				
1,2,3,4,7,8-HxCDD	6.12	-	J	0.612	0.328				
1,2,3,6,7,8-HxCDD	15.0	-	J	1.50	0.381	Total TCDD	ND	1.67	
1,2,3,7,8,9-HxCDD	10.3	-	J	1.03	0.351	Total PeCDD	ND	2.66	
1,2,3,4,6,7,8-HpCDD	500	-		5.00	0.495	Total HxCDD	82.9	-	
OCDD	4270	-		1.28	1.02	Total HpCDD	844	-	
2,3,7,8-TCDF	ND	0.678		-	0.112				
1,2,3,7,8-PeCDF	ND	1.18		-	0.219				
2,3,4,7,8-PeCDF	2.71	-	J	0.813	0.232				
1,2,3,4,7,8-HxCDF	21.7	-	J	2.17	0.162				
1,2,3,6,7,8-HxCDF	6.94	-	J	0.694	0.167				
2,3,4,6,7,8-HxCDF	7.26	-	J	0.726	0.167				
1,2,3,7,8,9-HxCDF	2.49	-	J	0.249	0.185	Total TCDF	7.53	-	D,M
1,2,3,4,6,7,8-HpCDF	108	-		1.08	0.251	Total PeCDF	34.4	-	D,M
1,2,3,4,7,8,9-HpCDF	13.0	-	J	0.130	0.280	Total HxCDF	196	-	D,M
OCDF	328	-		0.0984	0.451	Total HpCDF	373	-	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	87.8	25.0 - 164	
13C-1,2,3,7,8-PeCDD	77.0	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	82.1	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	85.3	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	87.9	23.0 - 140	
13C-OCDD	91.2	17.0 - 157	
13C-2,3,7,8-TCDF	87.6	24.0 - 169	
13C-1,2,3,7,8-PeCDF	71.6	24.0 - 185	
13C-2,3,4,7,8-PeCDF	74.9	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	80.6	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	80.1	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	80.5	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	83.3	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	82.5	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	91.0	26.0 - 138	
13C-OCDF	84.6	17.0 - 157	
Cleanup Surrogate			
37Cl-2,3,7,8-TCDD	105	35.0 - 197	

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: _____
Date: 3/11/10

Reviewed By: DN
Date: 3/11/10

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EPA Method 1613
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 6012-002-SA
Client ID: CB4857022710COMP
Matrix: Aqueous
Batch No: X1959

Date Extracted: 03-09-2010
Date Received: 03-04-2010
Amount: 1.035 L

ICal: PCDDFAL3-11-18-09
GC Column: DB5
Units: pg/L

Acquired: 03-10-2010
2005 WHO TEQ: 10.7

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	1.47		-	0.212				
1,2,3,7,8-PeCDD	ND	1.99		-	0.302				
1,2,3,4,7,8-HxCDD	4.35	-	J	0.435	0.328				
1,2,3,6,7,8-HxCDD	11.4	-	J	1.14	0.381	Total TCDD	ND	1.47	
1,2,3,7,8,9-HxCDD	8.11	-	J	0.811	0.351	Total PeCDD	ND	1.99	
1,2,3,4,6,7,8-HpCDD	348	-		3.48	0.495	Total HxCDD	60.9	-	
OCDD	3020	-		0.906	1.02	Total HpCDD	591	-	
2,3,7,8-TCDF	ND	0.760		-	0.112				
1,2,3,7,8-PeCDF	ND	2.00		-	0.219				
2,3,4,7,8-PeCDF	ND	1.93		-	0.232				
1,2,3,4,7,8-HxCDF	16.0	-	J	1.60	0.162				
1,2,3,6,7,8-HxCDF	6.46	-	J	0.646	0.167				
2,3,4,6,7,8-HxCDF	5.55	-	J	0.555	0.167				
1,2,3,7,8,9-HxCDF	1.87	-	J	0.187	0.185	Total TCDF	10.1	-	D,M
1,2,3,4,6,7,8-HpCDF	80.6	-		0.806	0.251	Total PeCDF	39.6	-	D,M
1,2,3,4,7,8,9-HpCDF	9.26	-	J	0.0926	0.280	Total HxCDF	173	-	D,M
OCDF	234	-		0.0702	0.451	Total HpCDF	266	-	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	84.7	25.0 - 164	
13C-1,2,3,7,8-PeCDD	76.2	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	80.4	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	82.8	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	89.6	23.0 - 140	
13C-OCDD	91.3	17.0 - 157	
13C-2,3,7,8-TCDF	85.5	24.0 - 169	
13C-1,2,3,7,8-PeCDF	69.2	24.0 - 185	
13C-2,3,4,7,8-PeCDF	72.5	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	78.5	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	78.9	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	78.6	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	81.3	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	83.9	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	90.4	26.0 - 138	
13C-OCDF	85.5	17.0 - 157	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	92.4	35.0 - 197

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: _____
Date: 3/11/10

Reviewed By: DN
Date: 3/11/10

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EPA Method 1613
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 6012-003-SA
Client ID: CB1022710COMP
Matrix: Aqueous
Batch No: X1959

Date Extracted: 03-09-2010
Date Received: 03-04-2010
Amount: 1.027 L

ICal: PCDDFAL3-11-18-09
GC Column: DB5
Units: pg/L

Acquired: 03-11-2010
2005 WHO TEQ: 0.220

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	1.62		-	0.212				
1,2,3,7,8-PeCDD	ND	1.38		-	0.302				
1,2,3,4,7,8-HxCDD	ND	2.23		-	0.328				
1,2,3,6,7,8-HxCDD	ND	2.75		-	0.381	Total TCDD	ND	1.62	
1,2,3,7,8,9-HxCDD	ND	2.47		-	0.351	Total PeCDD	ND	1.38	
1,2,3,4,6,7,8-HpCDD	15.0	-	J	0.150	0.495	Total HxCDD	ND	2.75	
OCDD	96.7	-		0.0290	1.02	Total HpCDD	29.8	-	
2,3,7,8-TCDF	ND	0.939		-	0.112				
1,2,3,7,8-PeCDF	ND	1.58		-	0.219				
2,3,4,7,8-PeCDF	ND	1.53		-	0.232				
1,2,3,4,7,8-HxCDF	ND	0.888		-	0.162				
1,2,3,6,7,8-HxCDF	ND	0.888		-	0.167				
2,3,4,6,7,8-HxCDF	ND	0.941		-	0.167				
1,2,3,7,8,9-HxCDF	ND	1.03		-	0.185	Total TCDF	ND	0.939	
1,2,3,4,6,7,8-HpCDF	3.79	-	J	0.0379	0.251	Total PeCDF	ND	1.58	
1,2,3,4,7,8,9-HpCDF	ND	1.35		-	0.280	Total HxCDF	3.84	-	J
OCDF	9.46	-	J	0.00284	0.451	Total HpCDF	8.47	-	J

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	87.0	25.0 - 164	
13C-1,2,3,7,8-PeCDD	69.6	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	79.0	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	77.8	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	81.8	23.0 - 140	
13C-OCDD	84.7	17.0 - 157	
13C-2,3,7,8-TCDF	85.5	24.0 - 169	
13C-1,2,3,7,8-PeCDF	66.8	24.0 - 185	
13C-2,3,4,7,8-PeCDF	70.6	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	77.9	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	76.6	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	75.3	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	77.5	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	77.4	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	83.9	26.0 - 138	
13C-OCDF	78.0	17.0 - 157	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	103	35.0 - 197

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: _____
Date: 3/11/10

Reviewed By: DN
Date: 3/11/10

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EPA Method 1613
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 6012-004-SA
Client ID: CB102022710COMP
Matrix: Aqueous
Batch No: X1959

Date Extracted: 03-09-2010
Date Received: 03-04-2010
Amount: 1.007 L

ICal: PCDDFAL3-11-18-09
GC Column: DB5
Units: pg/L

Acquired: 03-11-2010
2005 WHO TEQ: 0.223

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	1.27		-	0.212				
1,2,3,7,8-PeCDD	ND	1.33		-	0.302				
1,2,3,4,7,8-HxCDD	ND	2.57		-	0.328				
1,2,3,6,7,8-HxCDD	ND	2.90		-	0.381	Total TCDD	ND	1.27	
1,2,3,7,8,9-HxCDD	ND	2.71		-	0.351	Total PeCDD	ND	1.33	
1,2,3,4,6,7,8-HpCDD	15.6	-	J	0.156	0.495	Total HxCDD	ND	2.90	
OCDD	98.5	-		0.0296	1.02	Total HpCDD	30.5	-	
2,3,7,8-TCDF	ND	0.800		-	0.112				
1,2,3,7,8-PeCDF	ND	1.36		-	0.219				
2,3,4,7,8-PeCDF	ND	1.36		-	0.232				
1,2,3,4,7,8-HxCDF	ND	1.86		-	0.162				
1,2,3,6,7,8-HxCDF	ND	1.96		-	0.167				
2,3,4,6,7,8-HxCDF	ND	2.20		-	0.167				
1,2,3,7,8,9-HxCDF	ND	2.32		-	0.185	Total TCDF	ND	0.800	
1,2,3,4,6,7,8-HpCDF	3.47	-	J	0.0347	0.251	Total PeCDF	ND	1.36	
1,2,3,4,7,8,9-HpCDF	ND	1.53		-	0.280	Total HxCDF	ND	2.32	
OCDF	7.52	-	J	0.00226	0.451	Total HpCDF	7.76	-	J

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	93.8	25.0 - 164	
13C-1,2,3,7,8-PeCDD	78.1	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	88.1	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	89.6	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	92.4	23.0 - 140	
13C-OCDD	93.0	17.0 - 157	
13C-2,3,7,8-TCDF	96.6	24.0 - 169	
13C-1,2,3,7,8-PeCDF	71.2	24.0 - 185	
13C-2,3,4,7,8-PeCDF	71.7	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	88.0	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	86.4	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	83.5	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	84.9	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	86.3	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	90.8	26.0 - 138	
13C-OCDF	86.0	17.0 - 157	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	86.3	35.0 - 197

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: _____
Date: 3/11/10

Reviewed By: DPJ
Date: 3/11/10

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SUBCONTRACTOR ANALYSIS REQUEST
CUSTODY TRANSFER 03/01/10

ANALYTICAL RESOURCES INCORPORATED

6012 0.0°C

ARI Project: QM04

Laboratory: Frontier Analytical Laboratory
Lab Contact: BRAD SILVERBUSH
Lab Address: 5172 Hillsdale Circle
El Dorado Hills, CA 95762
Phone: 916-934-0900
Fax: 916-934-0999

ARI Client: Floyd/Snider
Project ID: Lora Lake Apartments
ARI PM: Sue Dunnihoo
Phone:
Fax: 206-695-6201

Analytical Protocol: In-house
Special Instructions:

Requested Turn Around: **03/12/10**
Fax Results (Y/N): **email**

Limits of Liability. *Subcontractor is expected to perform all requested services in accordance with appropriate methodology following Standard Operating Procedures that meet standards for the industry. The total liability of ARI, its officers, agents, employees, or sucessors, arising out of or in connection with the requested services, shall not exceed the negotiated amount for said services. The agreement by the Subcontractor to perform services requested by ARI releases ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Subcontractor.*

ARI ID	Client ID/ Add'l ID	Sampled	Matrix	Bottles	Analyses
10-5087-QM04A	CB31A022710COMP	02/27/10 01:11	Water	1	Dioxin/Furans 1613(Sub)
Special Instructions: None					
10-5088-QM04B	CB4857022710COMP	02/27/10 01:00	Water	1	Dioxin/Furans 1613(Sub)
Special Instructions: None					
10-5089-QM04C	CB1022710COMP	02/27/10 01:05	Water	1	Dioxin/Furans 1613(Sub)
Special Instructions: None					
10-5090-QM04D	CB102022710COMP	02/27/10 02:05	Water	1	Dioxin/Furans 1613(Sub)
Special Instructions: None					

L4 & EDD

Carrier UPS	Airbill 1Z8336950150935889		Date 3/3/10
Relinquished by	Company ARI	Date 3/3/10	Time 1530
Received by	Company Frontier	Date 3/4/10	Time 1030

Frontier Analytical Laboratory

Sample Login Form

FAL Project ID: **6012**

Client:	Analytical Resources Inc. Sue Dunnihoo
Client Project ID:	QM04
Date Received:	03/04/2010
Time Received:	10:30 am
Received By:	GN
Logged In By:	KZ
# of Samples Received:	4
Duplicates:	0
Storage Location:	R2

Method of Delivery:	UPS
Tracking Number:	1Z8326950150235889
Shipping Container Received Intact	Yes
Custody seals(s) present?	Yes
Custody seals(s) intact?	Yes
Sample Arrival Temperature (C)	0
Cooling Method	Ice
Chain Of Custody Present?	Yes
Return Shipping Container To Client	Yes
Test for residual Chlorine	Yes
Thiosulfate Added	No
Earliest Sample Hold Time Expiration	02/27/2011
Adequate Sample Volume	Yes
Anomalies or additional comments:	

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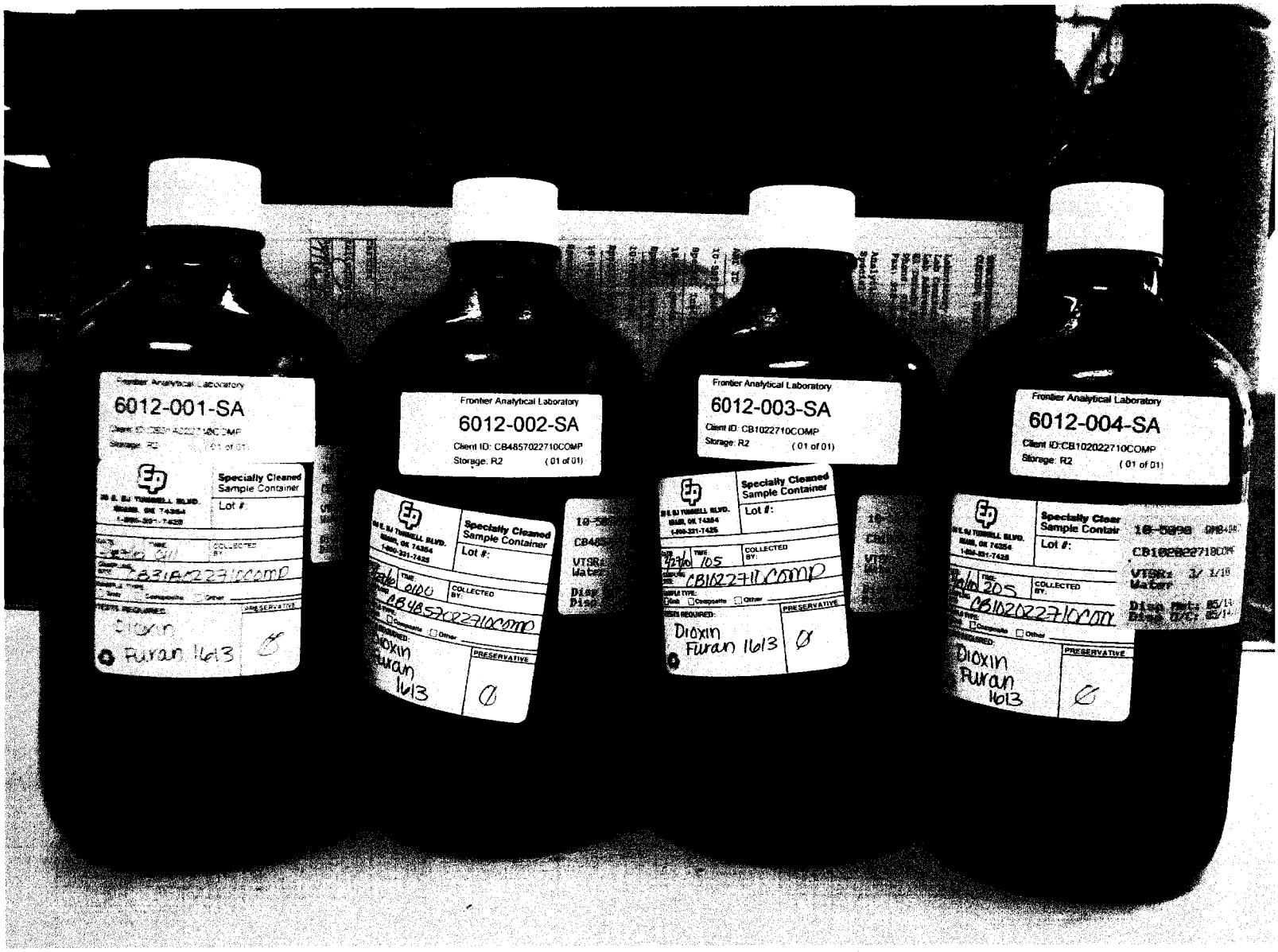

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PROJECT REQUEST SHEET

Project #:	6012	Sample #:	1 - 4	Client Manager:	BS
Client:	Analytical Resources Inc. Sue Dunnihoo			Hold Time:	02/27/2011
Matrix:	Aqueous	Extraction Batch:	1959	Due Date:	03/26/2010
Method:	EPA 1613 D/F			Storage:	R2
SOP:	SOPs: EP2A Rev.7 IP2A Rev.8				

COMMENTS/INSTRUCTIONS:

-NL-

Sample	Full Weight (g)	Empty Weight (g)
6012-001-0001-SA	1533.7	497.16
6012-002-0001-SA	1529.7	494.74
6012-003-0001-SA	1521.1	494.00
6012-004-0001-SA	1504.1	496.69

Results: 6012

Extract/s located in box: "Shout at the Devil"

Standards: 6012

Instrument:

DB5	FAL-3
DB225	____
DB1	____
Other	____

Frontier Analytical Laboratory
Percent Solids

FAL Project: 6012

Sample ID	Chemist	Date	Wet Sample Weight (g)	Dry Sample Weight (g)	% Solids	10g Equiv
1.26 6012-001-0001-SA	GN	3/9/10	11.29	0.02	0.18	—
1.29 6012-002-0001-SA	↓	↓	14.94	0.00	0.00	—
1.29 6012-003-0001-SA			11.48	0.00	0.00	—
1.29 6012-004-0001-SA			10.37	0.00	0.00	—

% Solids Summary:

Non-Filtered Determination

1. Place an aliquot of sample into a pre-weighed aluminum weighing boat. Use approximately two to ten grams for solid samples, approximately 10 mL for aqueous samples.
2. Record the weight.
3. Dry sample overnight at approximately 110 C.

Filtered Determination

1. Pre-weigh a glass fiber filter of appropriate pore size and pressure filter a sample aliquot (200-1000mL) through it.
2. Air dry the filter and record the dry weight.

% Solids calculation

% solids = aliquot after drying/aliquot before drying x 100

- Samples containing one percent solids or less are prepared as aqueous samples.
- Samples containing greater than one percent solids prepared as solid samples.

EXTRACTION SHEET

Project #: 6012 Extraction Date: 2010-03-09 Extraction Chemist: GN

Method/Analysis: EPA 1613 D/F

Procedure: SPE/SOX Solvent: Toluene

Sample ID	Wet wt. (g/L)	Dry wt. (g/L)	IS Amt: 10.0uL ID: 090918A Vial: 3 Chemist/Witness/Date	NS Amt: 10.0uL ID: 090918B Vial: 3 Chemist/Witness/Date	CSS Amt: 10.0uL ID: 090918C Vial: 3 Chemist/Witness/Date
1959-001-0001-MB					
1959-001-0001-OPR					
6012-001-0001-SA	1.037		GN GG 3/9/10	NA	GN GG 3/10/10
6012-002-0001-SA	1.035				
6012-003-0001-SA	1.027				
6012-004-0001-SA	1.007				

6011

AX-21 Charcoal Cleaned	083109	Acetone	49317	Acid Alumina	08623DJ	Hexane	49272
Hydrochloric Acid	B08505	Methanol	096021	Methylene Chloride (DCM)	50022	Silica Gel	TA1593034
Sodium Hydroxide	9265	Sodium Sulfate	49009905	Sulfuric Acid	094134	Tetradecane	081394
Toluene	49161	Water	49315	C-18 Empore Discs	320504	Cyclohexane	48149

Comments:

CLEANUP SHEET

Project #: 6012

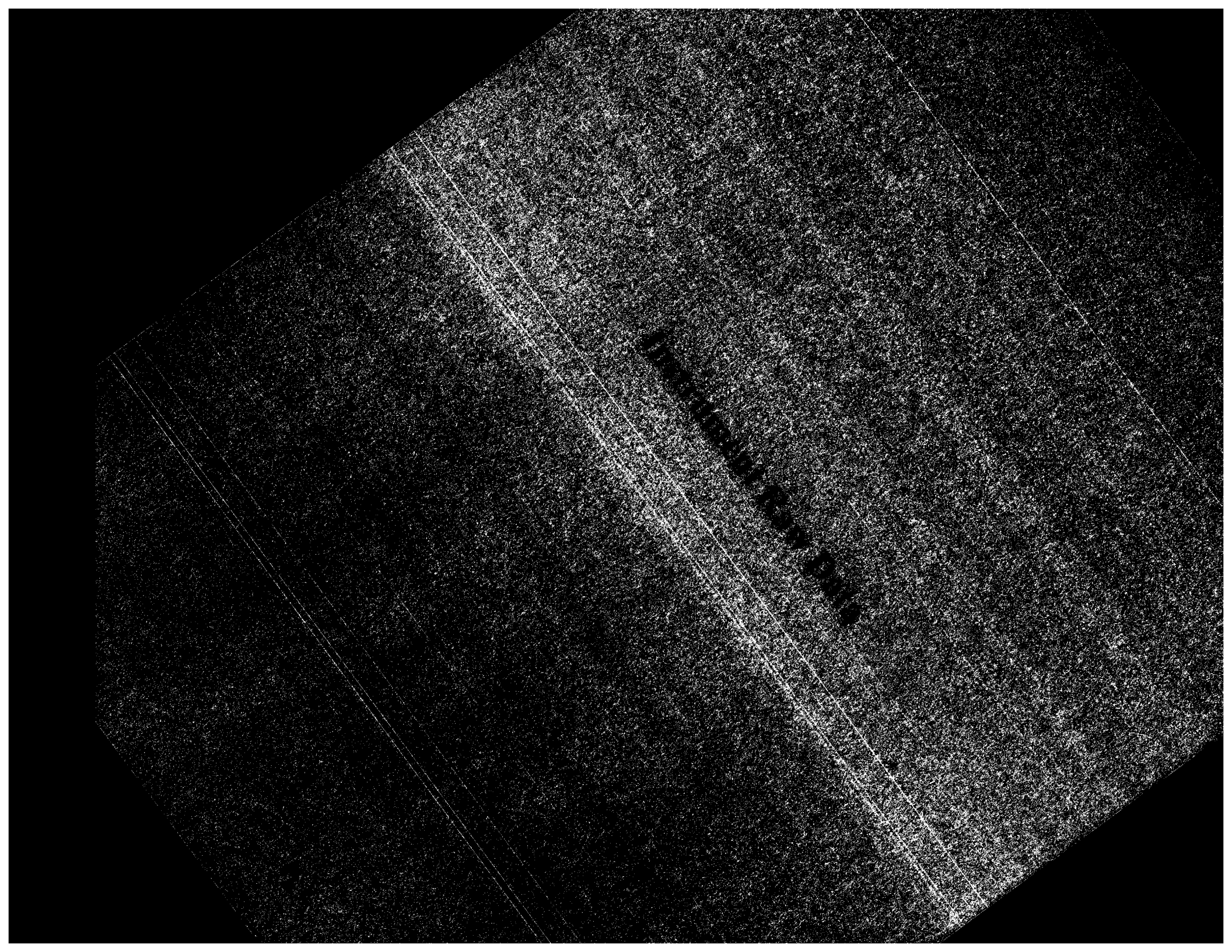
Method/Analysis: EPA 1613 D/F

Splits: 0 Split Date: N/A Final Volume: 20.0uL

Sample ID	Cleanup 1 MSG/AA Chemist/Date	Cleanup 2 NA Chemist/Date	Cleanup 3 NA Chemist/Date	RS Amt: 10.0uL ID: 090918D Vial: 3 Chemist/Witness/Date
1959-001-0001-MB				
1959-001-0001-OPR				
6012-001-0001-SA	GN 3/10/10	NA	NA	GN GG 3/10/10
6012-002-0001-SA		↓	↓	↓
6012-003-0001-SA		↓	↓	↓
6012-004-0001-SA		↓	↓	↓

60111

Comments:



Sample Results

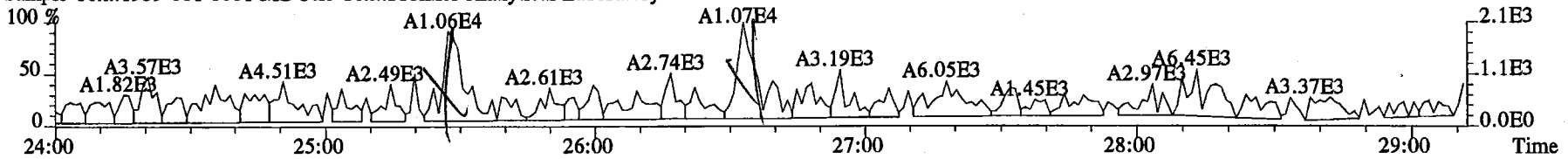
FAL ID: 1959-001-0001-MB Filename: 10MAR10M Sam:4 Acquired: 10-MAR-10 16:29:14 ICal: PCDDFAL3-11-18-09
Client ID: Method Blank ConCal: ST031010M1 EndCal: ST031010M2
Results: 1959 GC Column: DB5 Amount: 1.000 NATO 1989 Tox: 0.00
WHO 1998 Tox: 0.00 WHO 2005 Tox: 0.00

Name	Resp	RA		RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL
2,3,7,8-TCDD	*	*	n	NotFnd	1.02	*		2.50	829	786	1.80
1,2,3,7,8-PeCDD	*	*	n	NotFnd	0.96	*		2.50	618	459	1.62
1,2,3,4,7,8-HxCDD	*	*	n	NotFnd	1.37	*		2.50	559	551	1.69
1,2,3,6,7,8-HxCDD	*	*	n	NotFnd	1.34	*		2.50	559	551	2.02
1,2,3,7,8,9-HxCDD	*	*	n	NotFnd	1.37	*		2.50	559	551	1.84
1,2,3,4,6,7,8-HpCDD	*	*	n	NotFnd	1.17	*		2.50	768	512	3.25
OCDD	*	*	n	NotFnd	1.21	*		2.50	576	674	4.91
2,3,7,8-TCDF	*	*	n	NotFnd	1.29	*		2.50	471	1050	0.763
1,2,3,7,8-PeCDF	*	*	n	NotFnd	0.89	*		2.50	461	806	1.18
2,3,4,7,8-PeCDF	*	*	n	NotFnd	0.91	*		2.50	461	806	1.24
1,2,3,4,7,8-HxCDF	*	*	n	NotFnd	1.00	*		2.50	483	331	1.01
1,2,3,6,7,8-HxCDF	*	*	n	NotFnd	0.92	*		2.50	483	331	1.03
2,3,4,6,7,8-HxCDF	*	*	n	NotFnd	0.99	*		2.50	483	331	1.05
1,2,3,7,8,9-HxCDF	*	*	n	NotFnd	1.09	*		2.50	483	331	1.36
1,2,3,4,6,7,8-HpCDF	*	*	n	NotFnd	1.36	*		2.50	435	372	1.38
1,2,3,4,7,8,9-HpCDF	*	*	n	NotFnd	1.61	*		2.50	435	372	1.64
OCDF	*	*	n	NotFnd	0.84	*		2.50	381	569	3.25
											Rec
13C-2,3,7,8-TCDD	1.99e+07	0.75	y	27:19	0.94	1630					81.5
13C-1,2,3,7,8-PeCDD	1.81e+07	1.58	y	33:09	1.02	1370					68.6
13C-1,2,3,4,7,8-HxCDD	1.16e+07	1.30	y	38:31	0.98	1490					74.3
13C-1,2,3,6,7,8-HxCDD	1.14e+07	1.31	y	38:41	0.94	1530					76.6
13C-1,2,3,4,6,7,8-HpCDD	9.75e+06	1.06	y	44:07	0.90	1370					68.3
13C-OCDD	1.47e+07	0.98	y	49:40	0.67	2770					69.4
13C-2,3,7,8-TCDF	3.48e+07	0.80	y	26:34	0.88	1540					77.1
13C-1,2,3,7,8-PeCDF	2.87e+07	1.68	y	31:25	0.88	1280					63.8
13C-2,3,4,7,8-PeCDF	2.72e+07	1.67	y	32:44	0.85	1250					62.4
13C-1,2,3,4,7,8-HxCDF	2.00e+07	0.47	y	37:07	1.72	1470					73.5
13C-1,2,3,6,7,8-HxCDF	2.41e+07	0.47	y	37:19	2.00	1510					75.6
13C-2,3,4,6,7,8-HxCDF	2.07e+07	0.47	y	38:15	1.74	1500					75.2
13C-1,2,3,7,8,9-HxCDF	1.74e+07	0.47	y	39:42	1.51	1460					72.8
13C-1,2,3,4,6,7,8-HpCDF	1.20e+07	0.45	y	42:13	1.10	1380					69.0
13C-1,2,3,4,7,8,9-HpCDF	9.63e+06	0.49	y	45:01	0.85	1430					71.7
13C-OCDF	2.46e+07	0.89	y	50:02	1.17	2640					66.1
37Cl-2,3,7,8-TCDD	1.02e+07			27:20	0.97	805					101
13C-1,2,3,4-TCDD	2.60e+07	0.74	y	26:45	-	99.3					
13C-1,2,3,4-TCDF	5.13e+07	0.80	y	25:28	-	111					
13C-1,2,3,7,8,9-HxCDD	1.59e+07	1.36	y	39:07	-	77.4					

											#Hom
							Fac	Noise-1	Noise-2	DL	
Total Tetra-Dioxins	*			NotFnd	1.02	*	2.50	829	786	1.80	0
Total Penta-Dioxins	*			NotFnd	0.96	*	2.50	618	459	1.62	0
Total Hexa-Dioxins	*			NotFnd	1.36	*	2.50	559	551	2.02	0
Total Hepta-Dioxins	*			NotFnd	1.17	*	2.50	768	512	3.25	0
Total Tetra-Furans	*			NotFnd	1.29	*	2.50	471	1050	0.763	0
1st Fn. Tot Penta-Furans	*			NotFnd	0.90	*	2.50	461	806	1.24 PeCDF	0
Total Penta-Furans	*			NotFnd	0.90	*	2.50	461	806	1.24 *	0
Total Hexa-Furans	*			NotFnd	0.99	*	2.50	483	331	1.36	0
Total Hepta-Furans	*			NotFnd	1.47	*	2.50	435	372	1.64	0

Analyst: _____ Date: 3/11/10

File:10MAR10M #1-390 Acq:10-MAR-2010 16:29:14 GC EI+ Voltage SIR Autospec-Ultima
319.8965 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1959-001-0001-MB File Text:Frontier Analytical Laboratory



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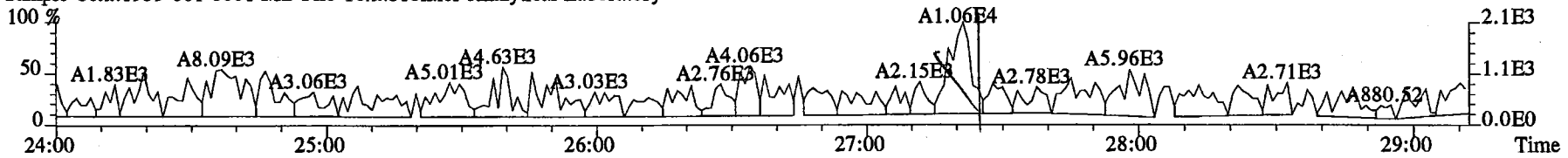
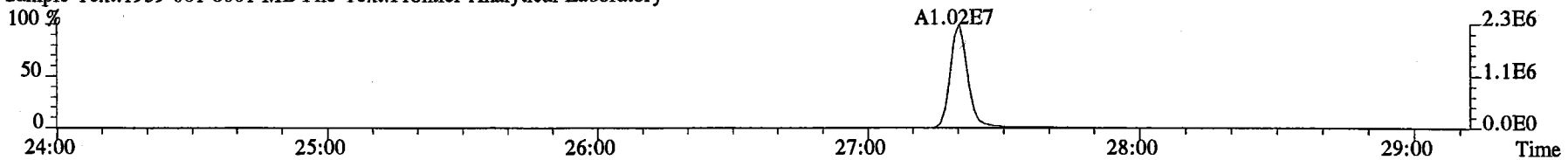
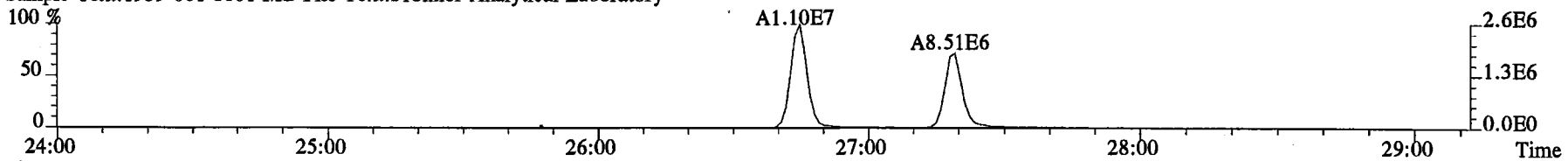
321.8936 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1959-001-0001-MB File Text:Frontier Analytical Laboratory



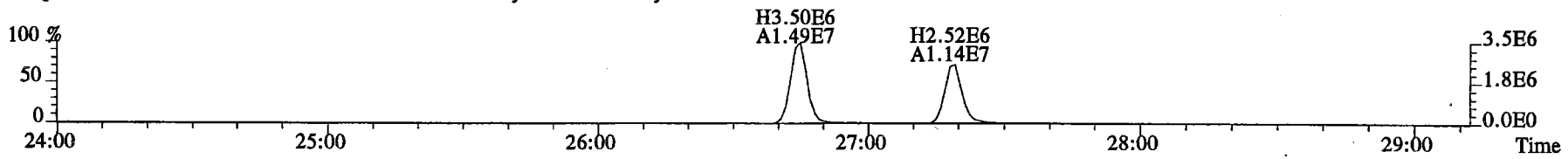
File:10MAR10M #1-390 Acq:10-MAR-2010 16:29:14 GC EI+ Voltage SIR Autospec-Ultima
327.8847 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1959-001-0001-MB File Text:Frontier Analytical Laboratory



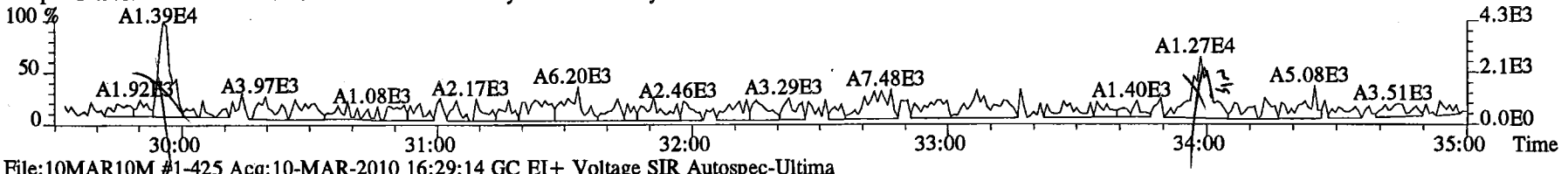
File:10MAR10M #1-390 Acq:10-MAR-2010 16:29:14 GC EI+ Voltage SIR Autospec-Ultima
331.9368 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1959-001-0001-MB File Text:Frontier Analytical Laboratory



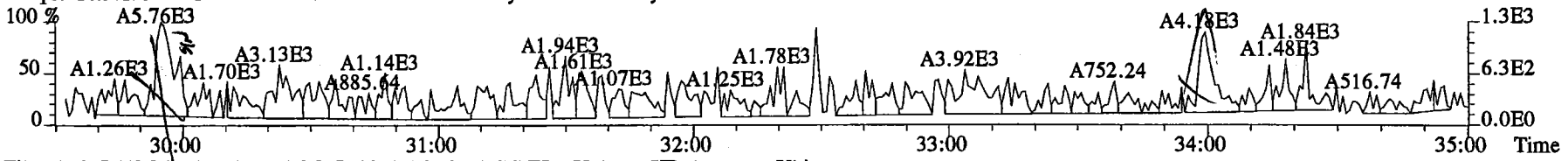
File:10MAR10M #1-390 Acq:10-MAR-2010 16:29:14 GC EI+ Voltage SIR Autospec-Ultima
333.9339 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1959-001-0001-MB File Text:Frontier Analytical Laboratory



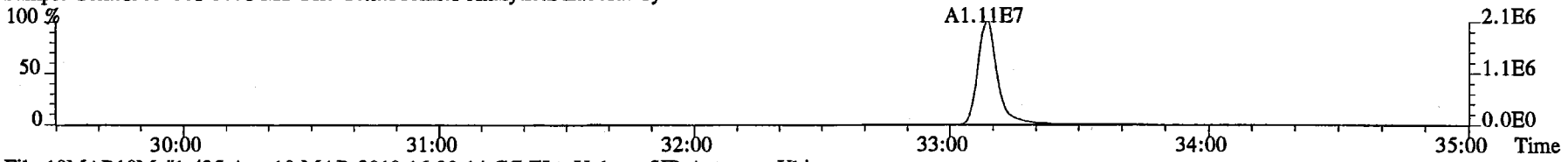
File:10MAR10M #1-425 Acq:10-MAR-2010 16:29:14 GC EI+ Voltage SIR Autospec-Ultima
355.8546 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1959-001-0001-MB File Text:Frontier Analytical Laboratory



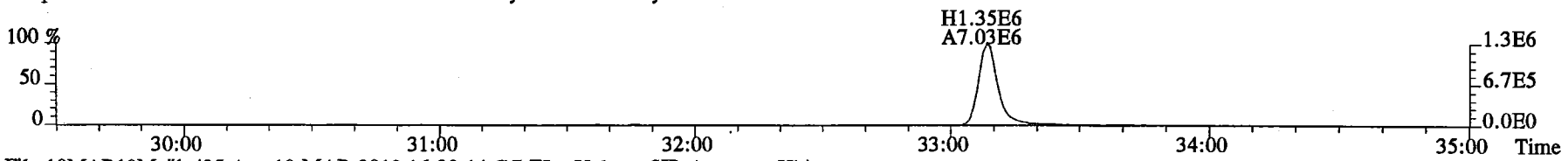
File:10MAR10M #1-425 Acq:10-MAR-2010 16:29:14 GC EI+ Voltage SIR Autospec-Ultima
357.8517 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1959-001-0001-MB File Text:Frontier Analytical Laboratory



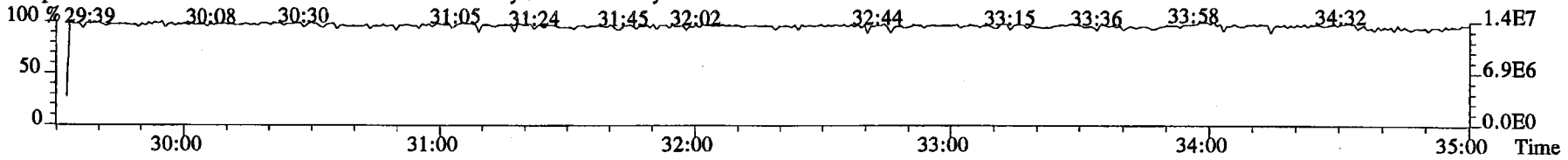
File:10MAR10M #1-425 Acq:10-MAR-2010 16:29:14 GC EI+ Voltage SIR Autospec-Ultima
367.8949 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1959-001-0001-MB File Text:Frontier Analytical Laboratory



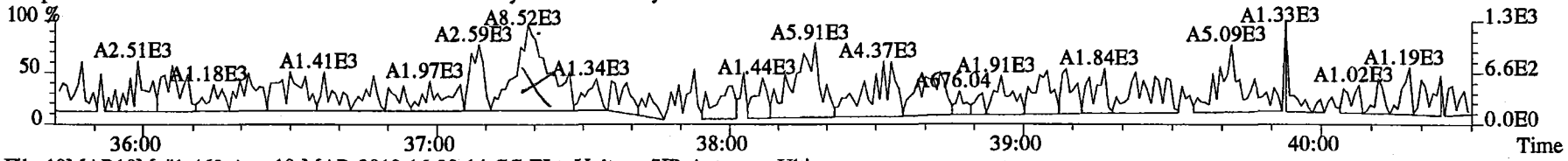
File:10MAR10M #1-425 Acq:10-MAR-2010 16:29:14 GC EI+ Voltage SIR Autospec-Ultima
369.8919 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1959-001-0001-MB File Text:Frontier Analytical Laboratory



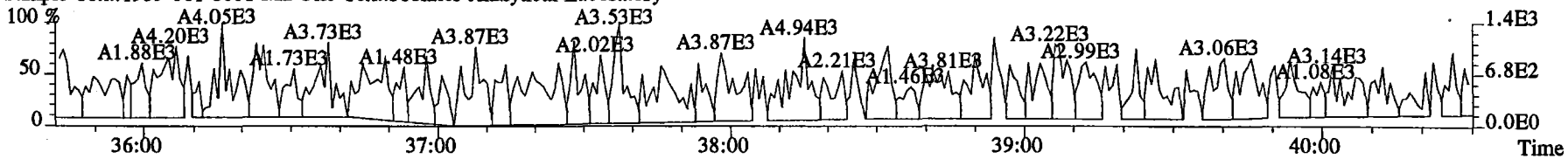
File:10MAR10M #1-425 Acq:10-MAR-2010 16:29:14 GC EI+ Voltage SIR Autospec-Ultima
366.9792 S:4 F:2 Exp:PCDD
Sample Text:1959-001-0001-MB File Text:Frontier Analytical Laboratory



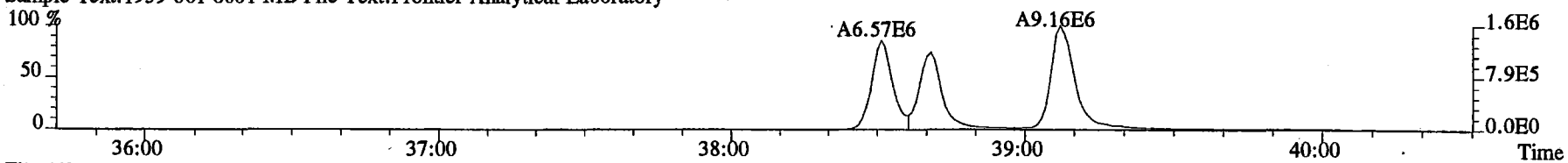
File:10MAR10M #1-463 Acq:10-MAR-2010 16:29:14 GC EI+ Voltage SIR Autospec-Ultima
389.8156 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1959-001-0001-MB File Text:Frontier Analytical Laboratory



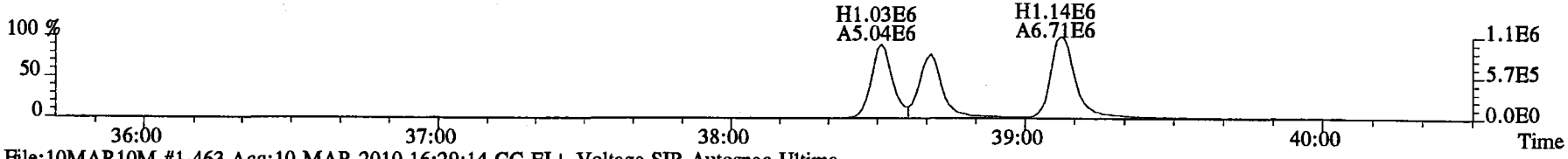
File:10MAR10M #1-463 Acq:10-MAR-2010 16:29:14 GC EI+ Voltage SIR Autospec-Ultima
391.8127 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1959-001-0001-MB File Text:Frontier Analytical Laboratory



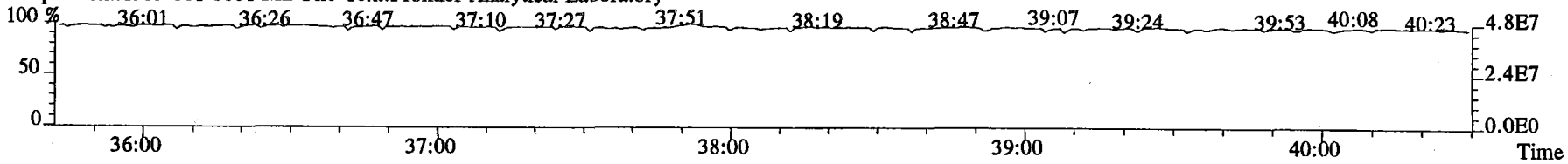
File:10MAR10M #1-463 Acq:10-MAR-2010 16:29:14 GC EI+ Voltage SIR Autospec-Ultima
401.8559 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1959-001-0001-MB File Text:Frontier Analytical Laboratory



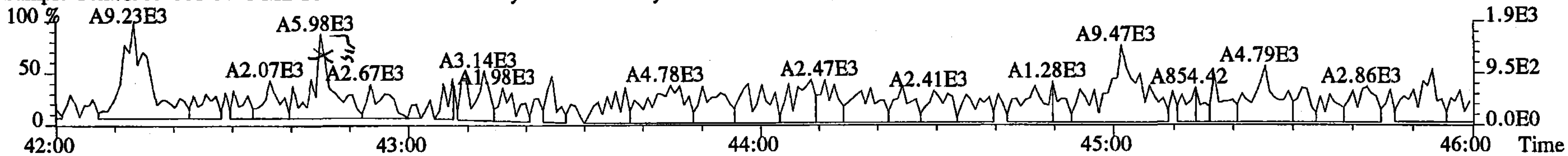
File:10MAR10M #1-463 Acq:10-MAR-2010 16:29:14 GC EI+ Voltage SIR Autospec-Ultima
403.8530 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1959-001-0001-MB File Text:Frontier Analytical Laboratory



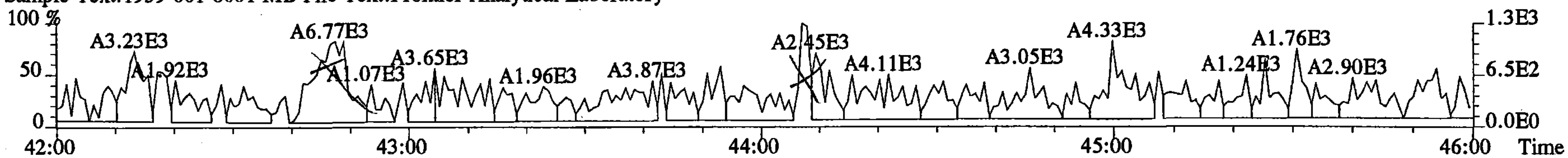
File:10MAR10M #1-463 Acq:10-MAR-2010 16:29:14 GC EI+ Voltage SIR Autospec-Ultima
380.9760 S:4 F:3 Exp:PCDD
Sample Text:1959-001-0001-MB File Text:Frontier Analytical Laboratory



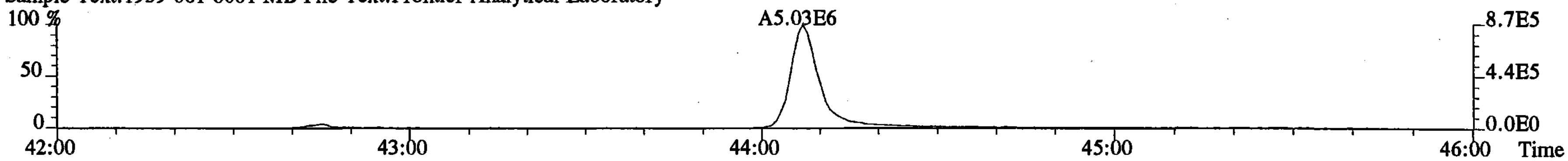
File:10MAR10M #1-541 Acq:10-MAR-2010 16:29:14 GC EI+ Voltage SIR Autospec-Ultima
423.7767 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1959-001-0001-MB File Text:Frontier Analytical Laboratory



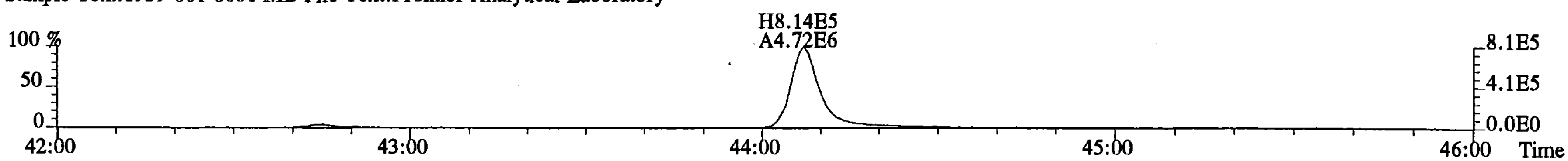
File:10MAR10M #1-541 Acq:10-MAR-2010 16:29:14 GC EI+ Voltage SIR Autospec-Ultima
425.7737 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1959-001-0001-MB File Text:Frontier Analytical Laboratory



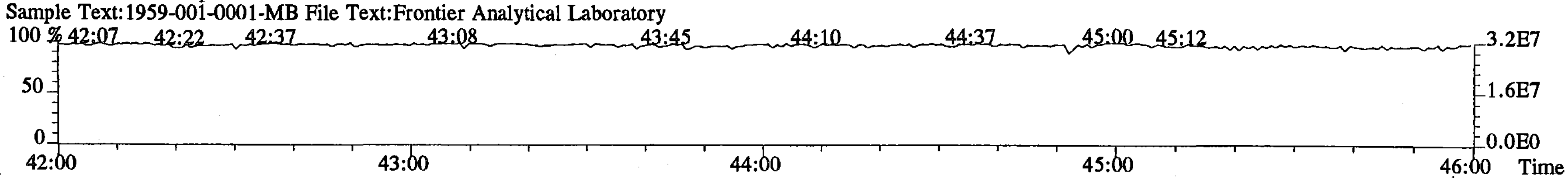
File:10MAR10M #1-541 Acq:10-MAR-2010 16:29:14 GC EI+ Voltage SIR Autospec-Ultima
435.8169 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1959-001-0001-MB File Text:Frontier Analytical Laboratory



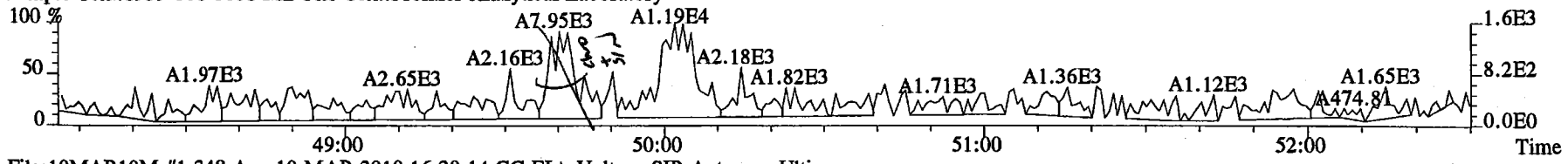
File:10MAR10M #1-541 Acq:10-MAR-2010 16:29:14 GC EI+ Voltage SIR Autospec-Ultima
437.8140 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1959-001-0001-MB File Text:Frontier Analytical Laboratory



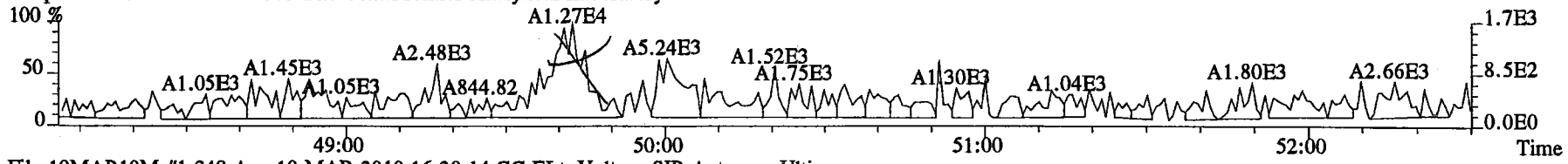
File:10MAR10M #1-541 Acq:10-MAR-2010 16:29:14 GC EI+ Voltage SIR Autospec-Ultima
430.9728 S:4 F:4 Exp:PCDD
Sample Text:1959-001-0001-MB File Text:Frontier Analytical Laboratory



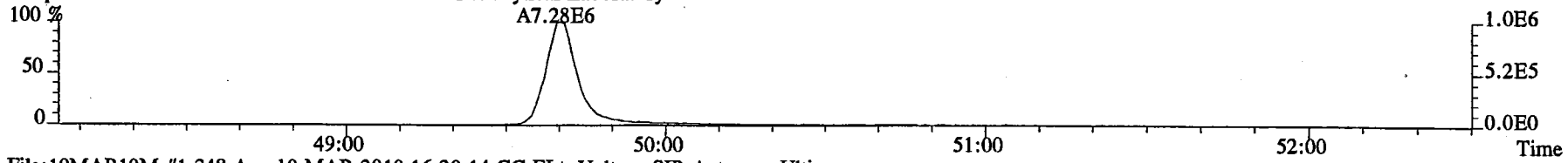
File:10MAR10M #1-348 Acq:10-MAR-2010 16:29:14 GC EI+ Voltage SIR Autospec-Ultima
457.7377 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1959-001-0001-MB File Text:Frontier Analytical Laboratory



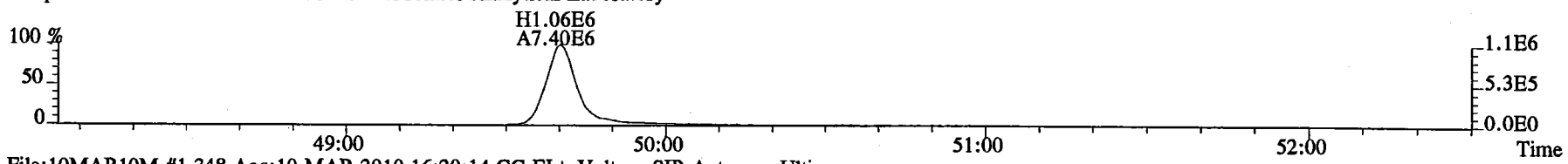
File:10MAR10M #1-348 Acq:10-MAR-2010 16:29:14 GC EI+ Voltage SIR Autospec-Ultima
459.7348 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1959-001-0001-MB File Text:Frontier Analytical Laboratory



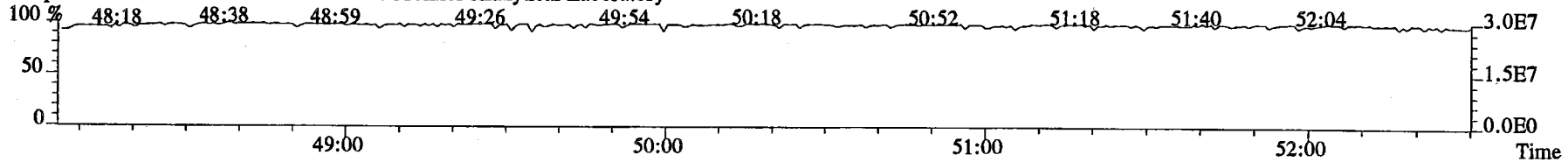
File:10MAR10M #1-348 Acq:10-MAR-2010 16:29:14 GC EI+ Voltage SIR Autospec-Ultima
469.7780 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1959-001-0001-MB File Text:Frontier Analytical Laboratory



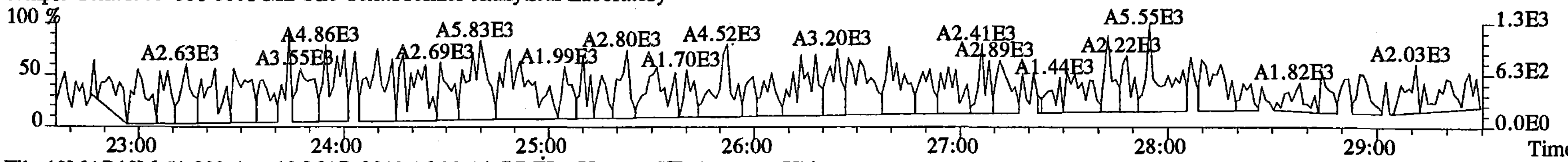
File:10MAR10M #1-348 Acq:10-MAR-2010 16:29:14 GC EI+ Voltage SIR Autospec-Ultima
471.7750 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1959-001-0001-MB File Text:Frontier Analytical Laboratory



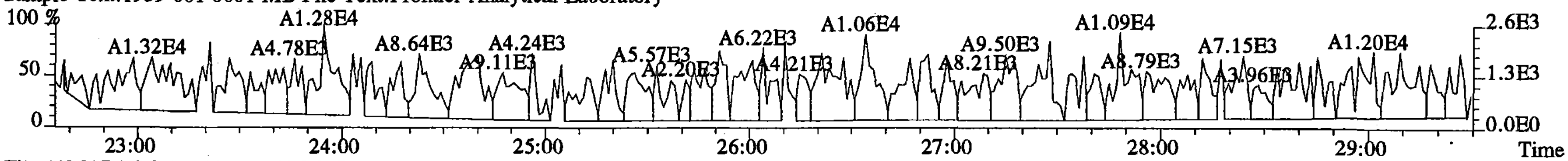
File:10MAR10M #1-348 Acq:10-MAR-2010 16:29:14 GC EI+ Voltage SIR Autospec-Ultima
454.9728 S:4 F:5 Exp:PCDD
Sample Text:1959-001-0001-MB File Text:Frontier Analytical Laboratory



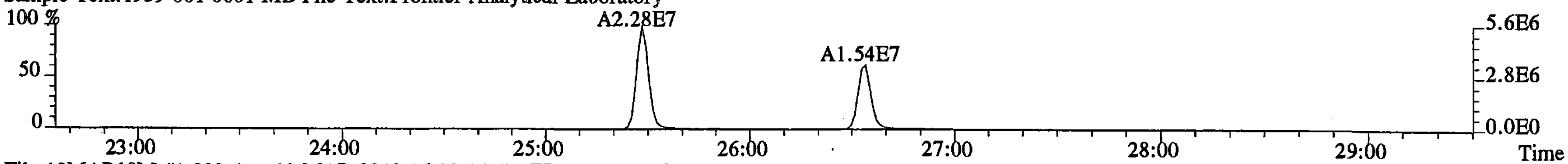
File:10MAR10M #1-390 Acq:10-MAR-2010 16:29:14 GC EI+ Voltage SIR Autospec-Ultima
303.9016 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1959-001-0001-MB File Text:Frontier Analytical Laboratory



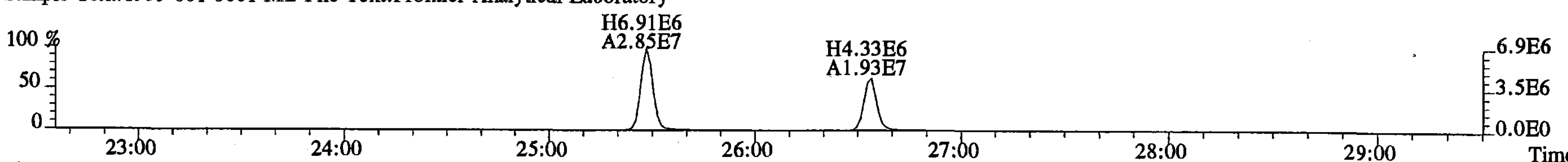
File:10MAR10M #1-390 Acq:10-MAR-2010 16:29:14 GC EI+ Voltage SIR Autospec-Ultima
305.8987 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1959-001-0001-MB File Text:Frontier Analytical Laboratory



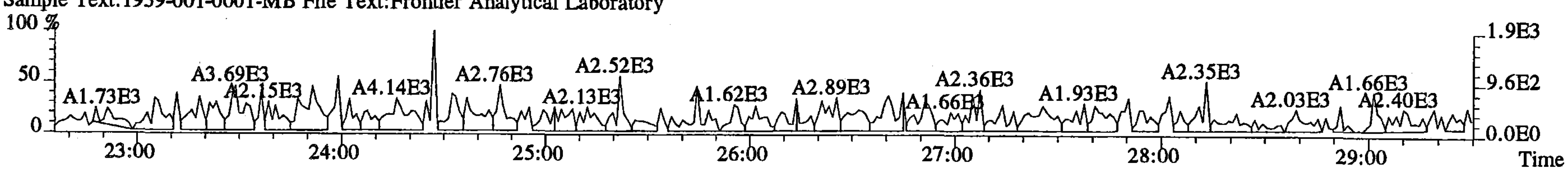
File:10MAR10M #1-390 Acq:10-MAR-2010 16:29:14 GC EI+ Voltage SIR Autospec-Ultima
315.9419 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1959-001-0001-MB File Text:Frontier Analytical Laboratory



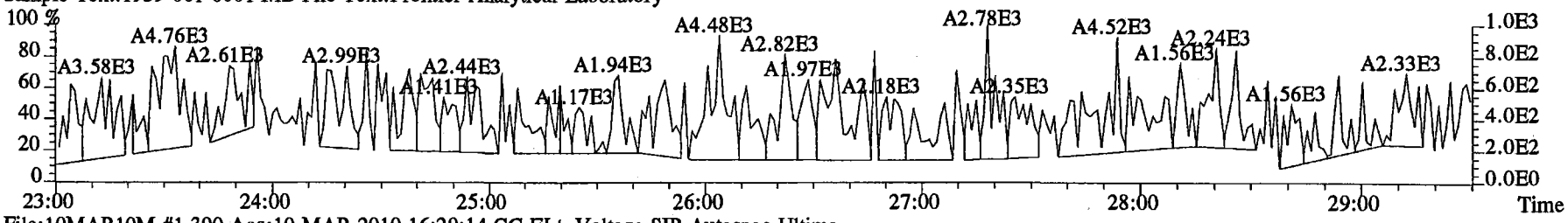
File:10MAR10M #1-390 Acq:10-MAR-2010 16:29:14 GC EI+ Voltage SIR Autospec-Ultima
317.9389 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1959-001-0001-MB File Text:Frontier Analytical Laboratory



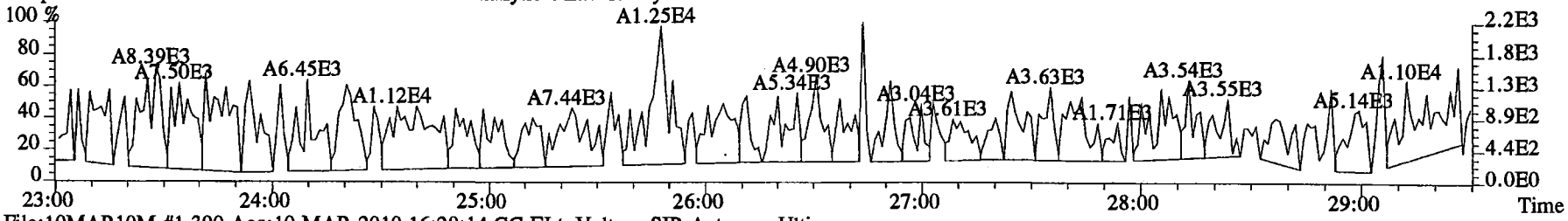
File:10MAR10M #1-390 Acq:10-MAR-2010 16:29:14 GC EI+ Voltage SIR Autospec-Ultima
375.8364 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1959-001-0001-MB File Text:Frontier Analytical Laboratory



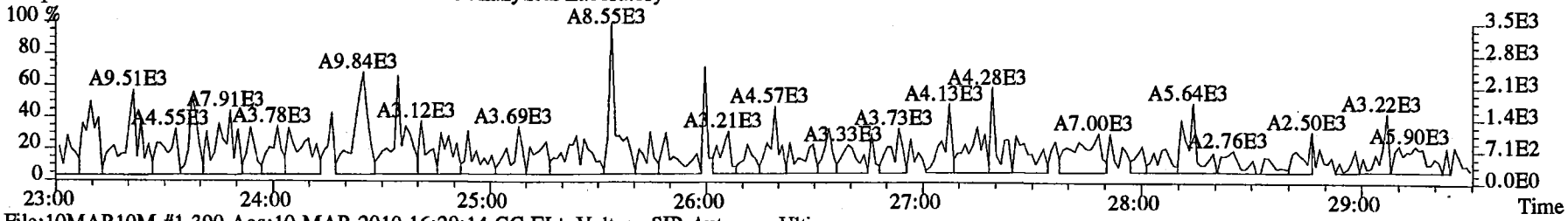
File:10MAR10M #1-390 Acq:10-MAR-2010 16:29:14 GC EI+ Voltage SIR Autospec-Ultima
339.8597 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1959-001-0001-MB File Text:Frontier Analytical Laboratory



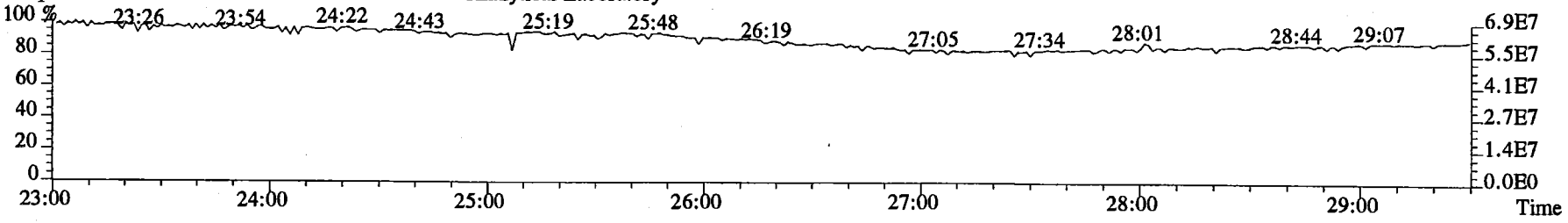
File:10MAR10M #1-390 Acq:10-MAR-2010 16:29:14 GC EI+ Voltage SIR Autospec-Ultima
341.8568 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1959-001-0001-MB File Text:Frontier Analytical Laboratory



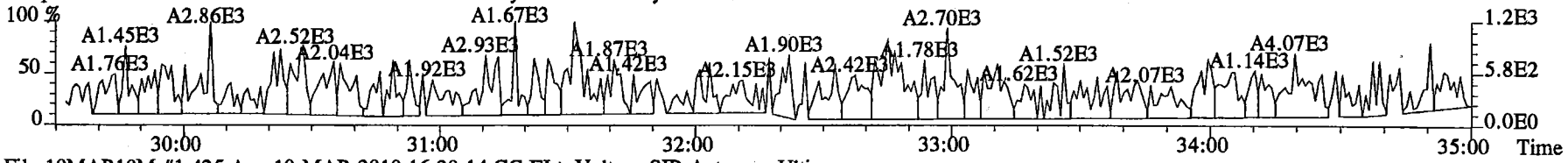
File:10MAR10M #1-390 Acq:10-MAR-2010 16:29:14 GC EI+ Voltage SIR Autospec-Ultima
409.7974 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1959-001-0001-MB File Text:Frontier Analytical Laboratory



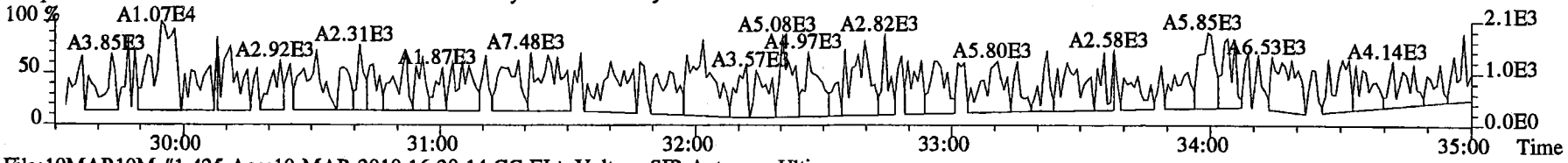
File:10MAR10M #1-390 Acq:10-MAR-2010 16:29:14 GC EI+ Voltage SIR Autospec-Ultima
330.9792 S:4 Exp:PCDD
Sample Text:1959-001-0001-MB File Text:Frontier Analytical Laboratory



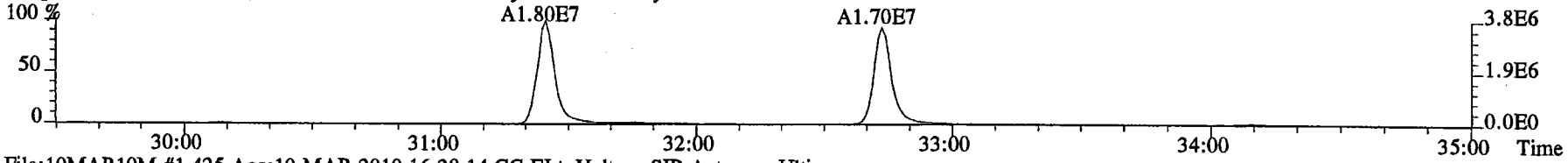
File:10MAR10M #1-425 Acq:10-MAR-2010 16:29:14 GC EI+ Voltage SIR Autospec-Ultima
339.8597 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1959-001-0001-MB File Text:Frontier Analytical Laboratory



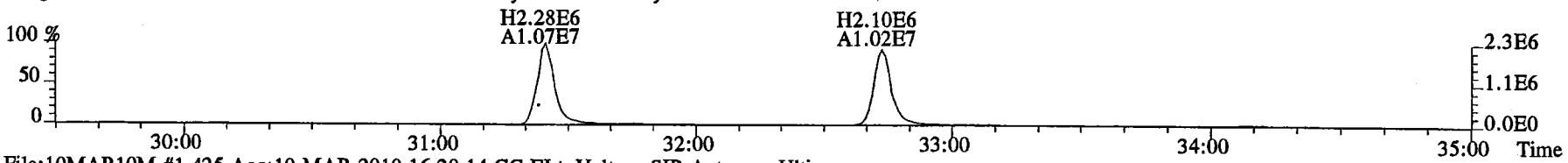
File:10MAR10M #1-425 Acq:10-MAR-2010 16:29:14 GC EI+ Voltage SIR Autospec-Ultima
341.8568 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1959-001-0001-MB File Text:Frontier Analytical Laboratory



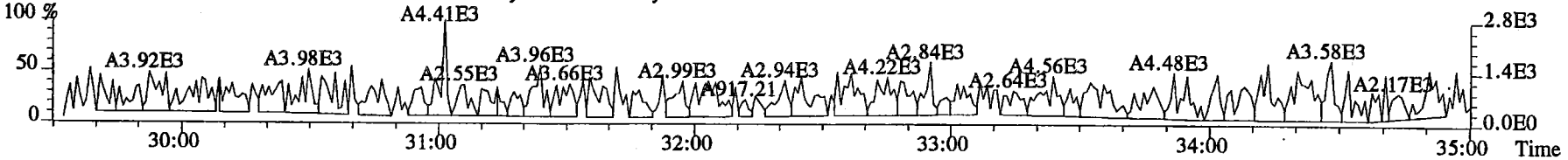
File:10MAR10M #1-425 Acq:10-MAR-2010 16:29:14 GC EI+ Voltage SIR Autospec-Ultima
351.9000 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1959-001-0001-MB File Text:Frontier Analytical Laboratory



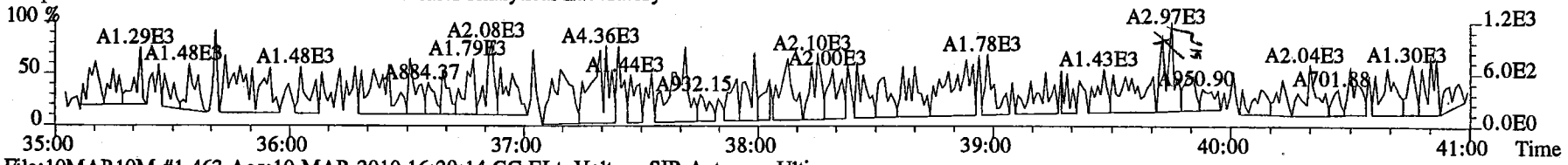
File:10MAR10M #1-425 Acq:10-MAR-2010 16:29:14 GC EI+ Voltage SIR Autospec-Ultima
353.8970 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1959-001-0001-MB File Text:Frontier Analytical Laboratory



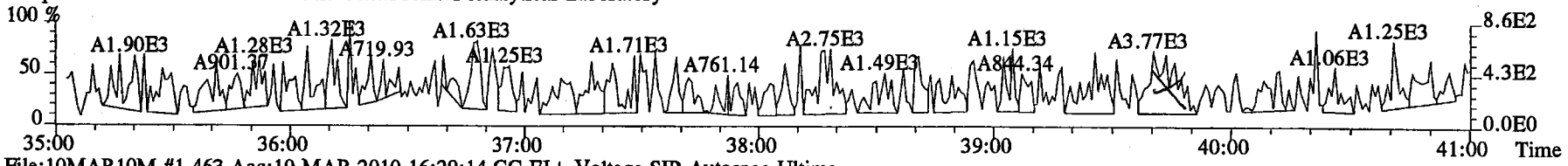
File:10MAR10M #1-425 Acq:10-MAR-2010 16:29:14 GC EI+ Voltage SIR Autospec-Ultima
409.7974 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1959-001-0001-MB File Text:Frontier Analytical Laboratory



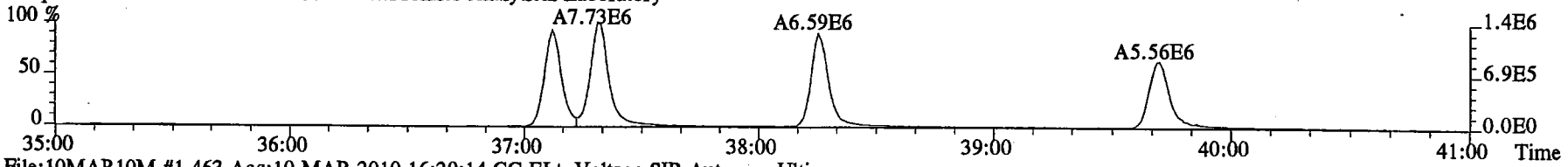
File:10MAR10M #1-463 Acq:10-MAR-2010 16:29:14 GC EI+ Voltage SIR Autospec-Ultima
373.8207 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1959-001-0001-MB File Text:Frontier Analytical Laboratory



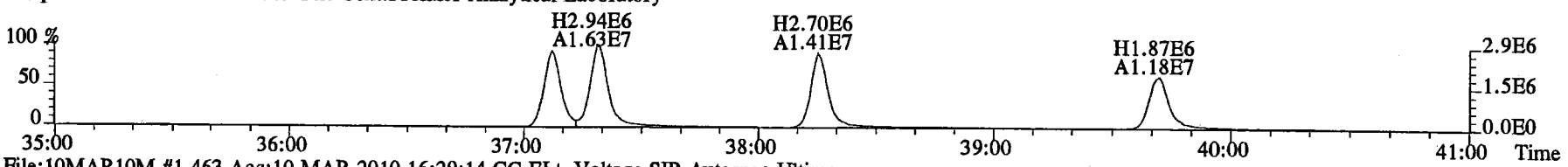
File:10MAR10M #1-463 Acq:10-MAR-2010 16:29:14 GC EI+ Voltage SIR Autospec-Ultima
375.8178 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1959-001-0001-MB File Text:Frontier Analytical Laboratory



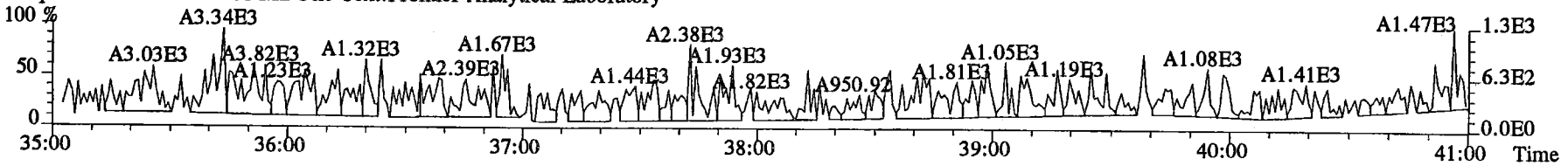
File:10MAR10M #1-463 Acq:10-MAR-2010 16:29:14 GC EI+ Voltage SIR Autospec-Ultima
383.8639 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1959-001-0001-MB File Text:Frontier Analytical Laboratory



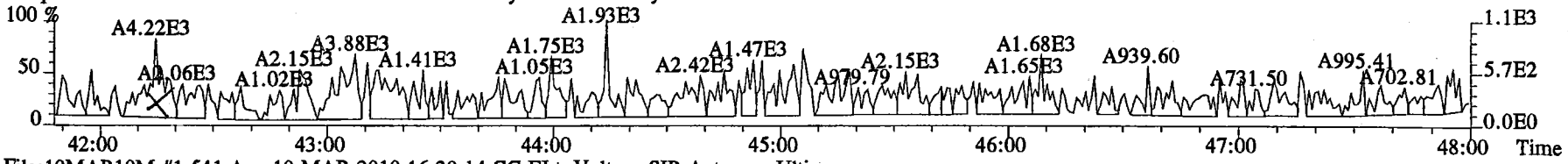
File:10MAR10M #1-463 Acq:10-MAR-2010 16:29:14 GC EI+ Voltage SIR Autospec-Ultima
385.8610 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1959-001-0001-MB File Text:Frontier Analytical Laboratory



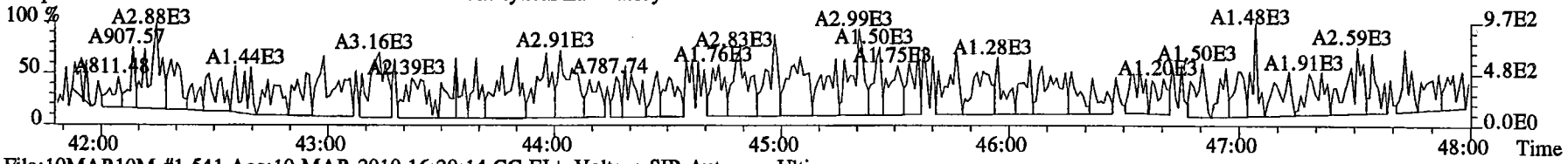
File:10MAR10M #1-463 Acq:10-MAR-2010 16:29:14 GC EI+ Voltage SIR Autospec-Ultima
445.7555 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1959-001-0001-MB File Text:Frontier Analytical Laboratory



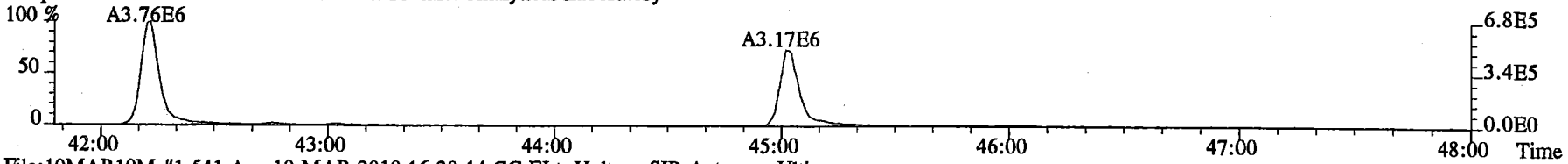
File:10MAR10M #1-541 Acq:10-MAR-2010 16:29:14 GC EI+ Voltage SIR Autospec-Ultima
407.7818 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1959-001-0001-MB File Text:Frontier Analytical Laboratory



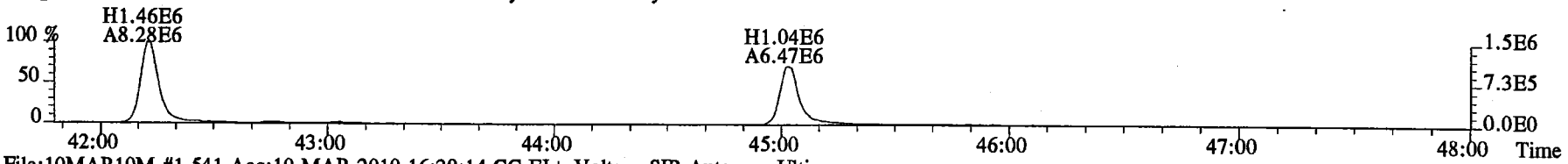
File:10MAR10M #1-541 Acq:10-MAR-2010 16:29:14 GC EI+ Voltage SIR Autospec-Ultima
409.7788 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1959-001-0001-MB File Text:Frontier Analytical Laboratory



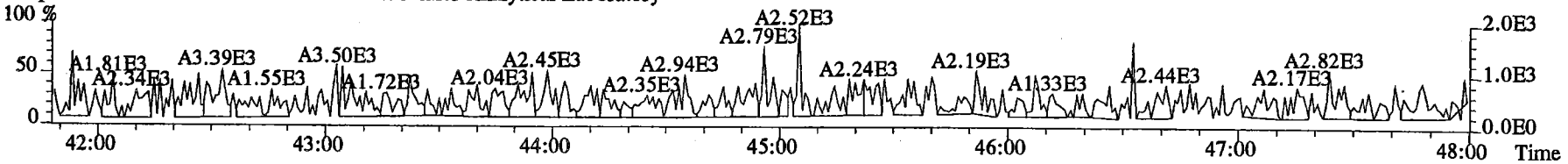
File:10MAR10M #1-541 Acq:10-MAR-2010 16:29:14 GC EI+ Voltage SIR Autospec-Ultima
417.8253 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1959-001-0001-MB File Text:Frontier Analytical Laboratory



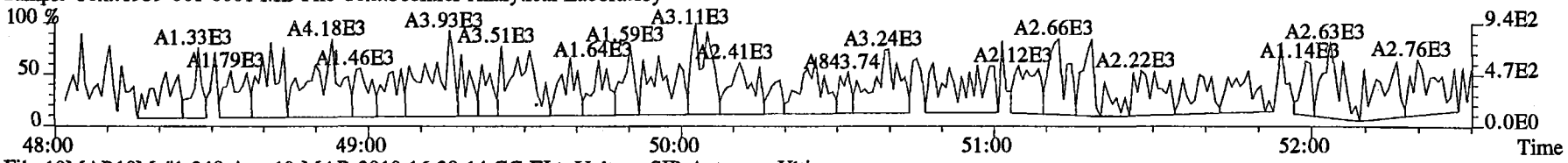
File:10MAR10M #1-541 Acq:10-MAR-2010 16:29:14 GC EI+ Voltage SIR Autospec-Ultima
419.8220 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1959-001-0001-MB File Text:Frontier Analytical Laboratory



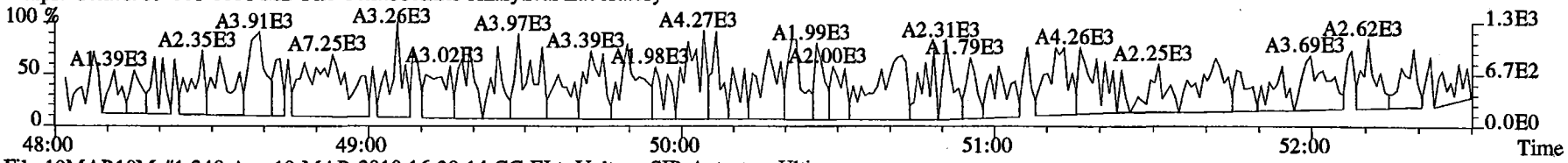
File:10MAR10M #1-541 Acq:10-MAR-2010 16:29:14 GC EI+ Voltage SIR Autospec-Ultima
479.7165 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1959-001-0001-MB File Text:Frontier Analytical Laboratory



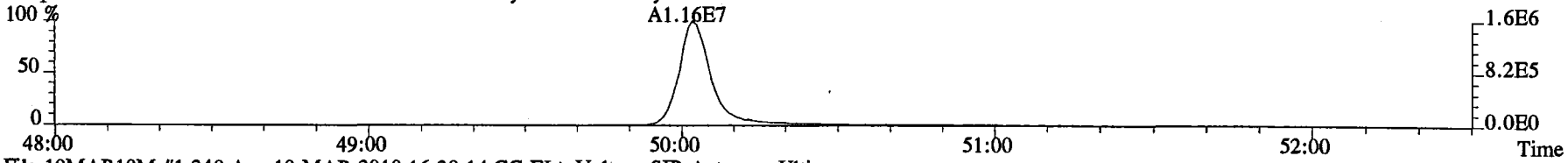
File:10MAR10M #1-348 Acq:10-MAR-2010 16:29:14 GC EI+ Voltage SIR Autospec-Ultima
441.7428 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1959-001-0001-MB File Text:Frontier Analytical Laboratory



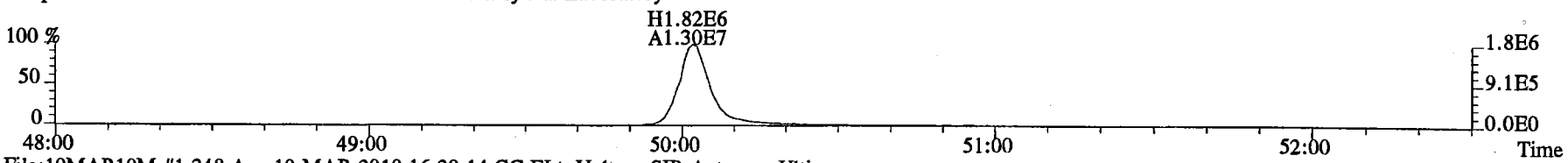
File:10MAR10M #1-348 Acq:10-MAR-2010 16:29:14 GC EI+ Voltage SIR Autospec-Ultima
443.7398 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1959-001-0001-MB File Text:Frontier Analytical Laboratory



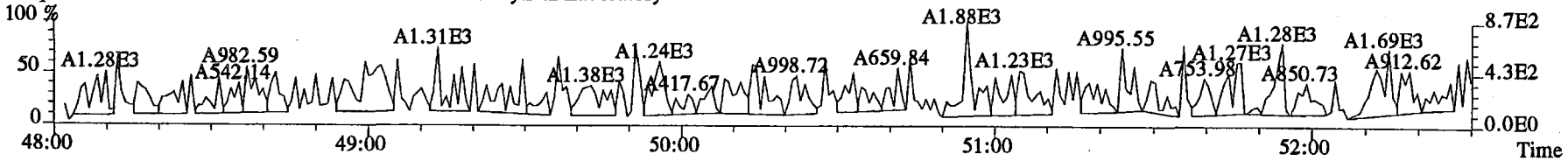
File:10MAR10M #1-348 Acq:10-MAR-2010 16:29:14 GC EI+ Voltage SIR Autospec-Ultima
453.7831 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1959-001-0001-MB File Text:Frontier Analytical Laboratory



File:10MAR10M #1-348 Acq:10-MAR-2010 16:29:14 GC EI+ Voltage SIR Autospec-Ultima
455.7801 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1959-001-0001-MB File Text:Frontier Analytical Laboratory



File:10MAR10M #1-348 Acq:10-MAR-2010 16:29:14 GC EI+ Voltage SIR Autospec-Ultima
513.6775 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1959-001-0001-MB File Text:Frontier Analytical Laboratory



1959-001-0001-OPR

USEPA - ITD

FORM 8A
PCDD/PCDF ONGOING PRECISION AND RECOVERY (OPR)

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Matrix (aqueous/solid/leachate): Aqueous OPR Data Filename: 10MAR10M Sam:3

Ext. Date: 3/9/10 Shift: Day Analysis Date: 10-MAR-10 15:33:55

ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT.

	SPIKE CONC. (ng/mL)	CONC. FOUND (ng/mL)	OPR CONC. LIMITS (1) (ng/mL)
NATIVE ANALYTES			
2,3,7,8-TCDD	10	10.3	6.70 - 15.8
1,2,3,7,8-PeCDD	50	49.9	35.0 - 71.0
1,2,3,4,7,8-HxCDD	50	50.1	35.0 - 82.0
1,2,3,6,7,8-HxCDD	50	49.0	38.0 - 67.0
1,2,3,7,8,9-HxCDD	50	48.1	32.0 - 81.0
1,2,3,4,6,7,8-HpCDD	50	49.2	35.0 - 70.0
OCDD	100	101	78.0 - 144
2,3,7,8-TCDF	10	9.56	7.50 - 15.8
1,2,3,7,8-PeCDF	50	50.6	40.0 - 67.0
2,3,4,7,8-PeCDF	50	50.2	34.0 - 80.0
1,2,3,4,7,8-HxCDF	50	49.8	36.0 - 67.0
1,2,3,6,7,8-HxCDF	50	50.7	42.0 - 65.0
2,3,4,6,7,8-HxCDF	50	48.9	35.0 - 78.0
1,2,3,7,8,9-HxCDF	50	49.8	39.0 - 65.0
1,2,3,4,6,7,8-HpCDF	50	49.3	41.0 - 61.0
1,2,3,4,7,8,9-HpCDF	50	47.1	39.0 - 69.0
OCDF	100	97.0	63.0 - 170

(1) Contract-required concentration limits for OPR as specified in Table 6, Method 1613

Analyst: [signature] Date: 3/11/10

USEPA - ITD

FORM 8B
PCDD/PCDF ONGOING PRECISION AND RECOVERY (OPR)

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Matrix (aqueous/solid/leachate): Aqueous OPR Data Filename: 10MAR10M Sam:3

Ext. Date: 3/9/10 Shift: Day Analysis Date: 10-MAR-10 15:33:55

ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT.

	SPIKE CONC. (ng/mL)	CONC. FOUND (ng/mL)	OPR CONC. LIMITS (1) (ng/mL)
LABELED COMPOUNDS			
13C-2,3,7,8-TCDD	100	64.5	20.0 - 175
13C-1,2,3,7,8-PeCDD	100	49.6	21.0 - 227
13C-1,2,3,4,7,8-HxCDD	100	53.0	21.0 - 193
13C-1,2,3,6,7,8-HxCDD	100	55.4	25.0 - 163
13C-1,2,3,4,6,7,8-HpCDD	100	54.4	26.0 - 166
13C-OCDD	200	115	26.0 - 397
13C-2,3,7,8-TCDF	100	65.7	22.0 - 152
13C-1,2,3,7,8-PeCDF	100	50.3	21.0 - 192
13C-2,3,4,7,8-PeCDF	100	51.2	13.0 - 328
13C-1,2,3,4,7,8-HxCDF	100	51.3	19.0 - 202
13C-1,2,3,6,7,8-HxCDF	100	52.4	21.0 - 159
13C-2,3,4,6,7,8-HxCDF	100	52.5	22.0 - 176
13C-1,2,3,7,8,9-HxCDF	100	51.2	17.0 - 205
13C-1,2,3,4,6,7,8-HpCDF	100	52.1	21.0 - 158
13C-1,2,3,4,7,8,9-HpCDF	100	55.9	20.0 - 186
13C-OCDF	200	111	26.0 - 397
CLEANUP STANDARD			
37Cl-2,3,7,8-TCDD	40	32.8	12.4 - 76.4

(1) Contract-required concentration limits for OPR as specified in Table 6, Method 1613
Labeled compound concentration limits are based on required percent recovery of 25%-150%.

Analyst: [signature] Date: 3/11/10

FAL ID: 1959-001-0001-OPR Filename: 10MAR10M Sam:3 Acquired: 10-MAR-10 15:33:55 ICal: PCDDFAL3-11-18-09
Client ID: OPR ConCal: ST031010M1 EndCal: ST031010M2
Results: GC Column: DB5 Amount: 1.000 NATO 1989 Tox: 100
WHO 1998 Tox: 125 WHO 2005 Tox: 114

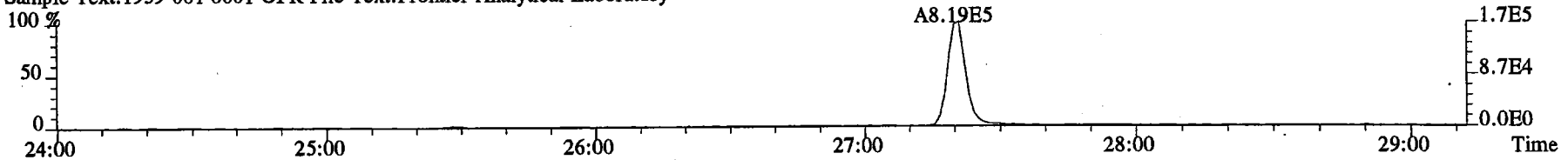
Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL
2,3,7,8-TCDD	1.85e+06	0.79 y	27:21	1.02	10.3		2.50	-	-	*
1,2,3,7,8-PeCDD	7.02e+06	1.58 y	33:10	0.96	49.9		2.50	-	-	*
1,2,3,4,7,8-HxCDD	6.47e+06	1.28 y	38:32	1.37	50.1		2.50	-	-	*
1,2,3,6,7,8-HxCDD	6.14e+06	1.27 y	38:42	1.34	49.0		2.50	-	-	*
1,2,3,7,8,9-HxCDD	6.16e+06	1.26 y	39:09	1.37	48.1		2.50	-	-	*
1,2,3,4,6,7,8-HpCDD	5.05e+06	0.93 y	44:09	1.17	49.2		2.50	-	-	*
OCDD	8.49e+06	0.94 y	49:41	1.21	101		2.50	-	-	*
2,3,7,8-TCDF	3.50e+06	0.68 y	26:35	1.29	9.56		2.50	-	-	*
1,2,3,7,8-PeCDF	9.80e+06	1.61 y	31:26	0.89	50.6		2.50	-	-	*
2,3,4,7,8-PeCDF	9.77e+06	1.62 y	32:45	0.91	50.2		2.50	-	-	*
1,2,3,4,7,8-HxCDF	7.89e+06	1.23 y	37:09	1.00	49.8		2.50	-	-	*
1,2,3,6,7,8-HxCDF	8.77e+06	1.21 y	37:21	0.92	50.7		2.50	-	-	*
2,3,4,6,7,8-HxCDF	7.91e+06	1.19 y	38:16	0.99	48.9		2.50	-	-	*
1,2,3,7,8,9-HxCDF	7.53e+06	1.22 y	39:43	1.09	49.8		2.50	-	-	*
1,2,3,4,6,7,8-HpCDF	6.90e+06	1.01 y	42:14	1.36	49.3		2.50	-	-	*
1,2,3,4,7,8,9-HpCDF	6.45e+06	1.06 y	45:03	1.61	47.1		2.50	-	-	*
OCDF	9.57e+06	0.91 y	50:04	0.84	97.0		2.50	-	-	*

						Rec
13C-2,3,7,8-TCDD	1.76e+07	0.73 y	27:19	0.94	64.5	64.5
13C-1,2,3,7,8-PeCDD	1.46e+07	1.59 y	33:08	1.02	49.6	49.6
13C-1,2,3,4,7,8-HxCDD	9.39e+06	1.32 y	38:30	0.98	53.0	53.0
13C-1,2,3,6,7,8-HxCDD	9.34e+06	1.30 y	38:40	0.94	55.4	55.4
13C-1,2,3,4,6,7,8-HpCDD	8.80e+06	1.06 y	44:07	0.90	54.4	54.4
13C-OCDD	1.38e+07	1.00 y	49:41	0.67	115	57.7
13C-2,3,7,8-TCDF	2.85e+07	0.80 y	26:34	0.88	65.7	65.7
13C-1,2,3,7,8-PeCDF	2.18e+07	1.70 y	31:24	0.88	50.3	50.3
13C-2,3,4,7,8-PeCDF	2.15e+07	1.66 y	32:44	0.85	51.2	51.2
13C-1,2,3,4,7,8-HxCDF	1.59e+07	0.48 y	37:07	1.72	51.3	51.3
13C-1,2,3,6,7,8-HxCDF	1.89e+07	0.47 y	37:19	2.00	52.4	52.4
13C-2,3,4,6,7,8-HxCDF	1.64e+07	0.48 y	38:16	1.74	52.5	52.5
13C-1,2,3,7,8,9-HxCDF	1.39e+07	0.49 y	39:42	1.51	51.2	51.2
13C-1,2,3,4,6,7,8-HpCDF	1.03e+07	0.47 y	42:13	1.10	52.1	52.1
13C-1,2,3,4,7,8,9-HpCDF	8.52e+06	0.48 y	45:02	0.85	55.9	55.9
13C-OCDF	2.34e+07	0.92 y	50:03	1.17	111	55.4
37Cl-2,3,7,8-TCDD	9.26e+06		27:20	0.97	32.8	82.0
13C-1,2,3,4-TCDD	2.90e+07	0.74 y	26:44	-	111	
13C-1,2,3,4-TCDF	4.94e+07	0.82 y	25:29	-	107	
13C-1,2,3,7,8,9-HxCDD	1.80e+07	1.31 y	39:08	-	87.8	

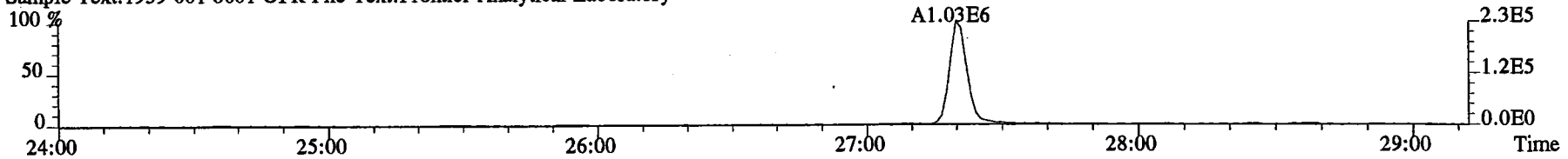
						Fac	Noise-1	Noise-2	DL		#Hom
Total Tetra-Dioxins	1.97e+06		24:04	1.02	11.0	2.50	-	-	*		21
Total Penta-Dioxins	7.13e+06		31:25	0.96	50.6	2.50	-	-	*		10
Total Hexa-Dioxins	1.91e+07		36:59	1.36	150	2.50	-	-	*		19
Total Hepta-Dioxins	5.40e+06		42:46	1.17	52.6	2.50	-	-	*		29
Total Tetra-Furans	3.71e+06		23:04	1.29	10.1	2.50	-	-	*		16
1st Fn. Tot Penta-Furans	8.78e+04		22:40	0.90	0.452	2.50	-	-	*	PeCDF	22
Total Penta-Furans	2.02e+07		29:56	0.90	104	2.50	-	-	*	105	16
Total Hexa-Furans	3.24e+07		35:12	0.99	201	2.50	-	-	*		18
Total Hepta-Furans	1.39e+07		42:14	1.47	100	2.50	-	-	*		23

Analyst: C Date: 3/11/10

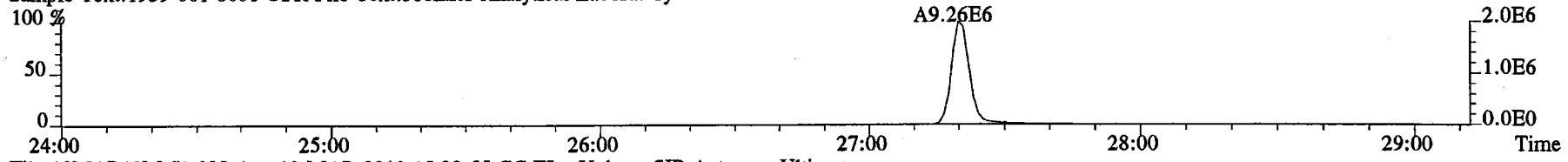
File:10MAR10M #1-390 Acq:10-MAR-2010 15:33:55 GC EI+ Voltage SIR Autospec-Ultima
319.8965 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1959-001-0001-OPR File Text:Frontier Analytical Laboratory



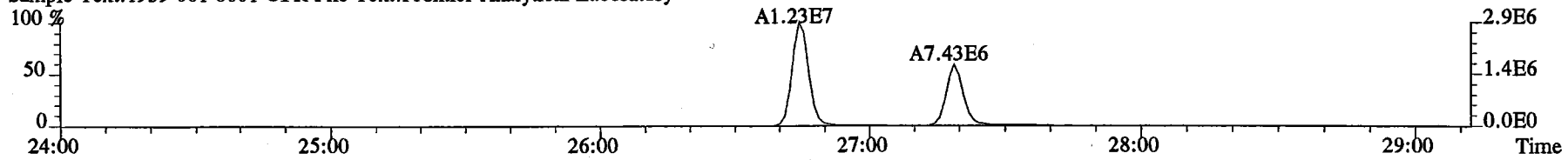
File:10MAR10M #1-390 Acq:10-MAR-2010 15:33:55 GC EI+ Voltage SIR Autospec-Ultima
321.8936 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1959-001-0001-OPR File Text:Frontier Analytical Laboratory



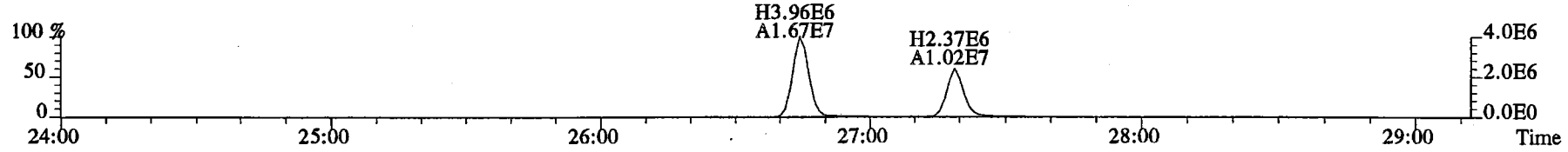
File:10MAR10M #1-390 Acq:10-MAR-2010 15:33:55 GC EI+ Voltage SIR Autospec-Ultima
327.8847 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1959-001-0001-OPR File Text:Frontier Analytical Laboratory



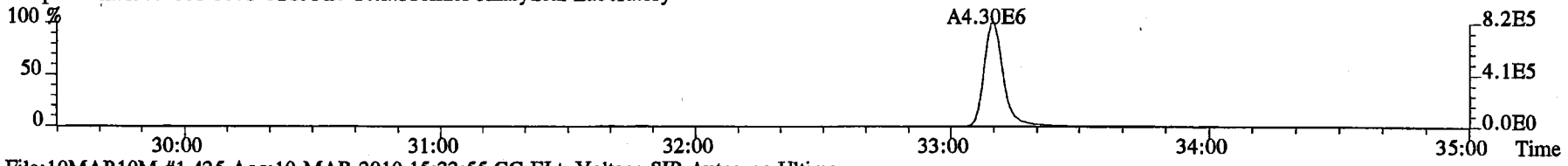
File:10MAR10M #1-390 Acq:10-MAR-2010 15:33:55 GC EI+ Voltage SIR Autospec-Ultima
331.9368 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1959-001-0001-OPR File Text:Frontier Analytical Laboratory



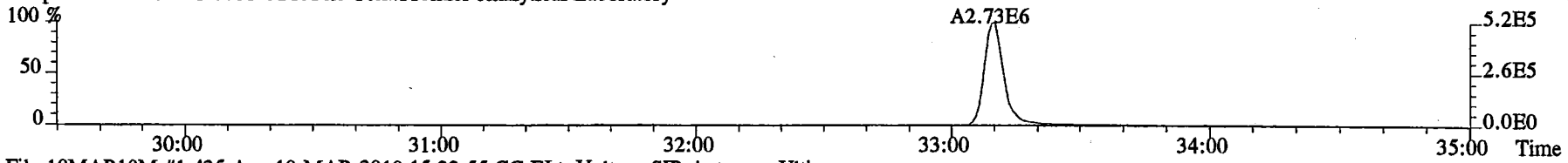
File:10MAR10M #1-390 Acq:10-MAR-2010 15:33:55 GC EI+ Voltage SIR Autospec-Ultima
333.9339 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1959-001-0001-OPR File Text:Frontier Analytical Laboratory



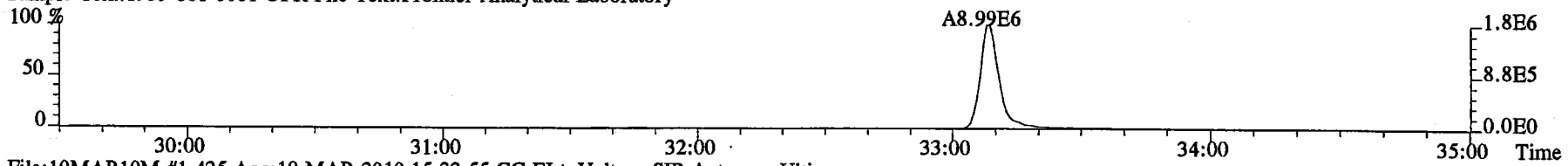
File:10MAR10M #1-425 Acq:10-MAR-2010 15:33:55 GC EI+ Voltage SIR Autospec-Ultima
355.8546 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1959-001-0001-OPR File Text:Frontier Analytical Laboratory



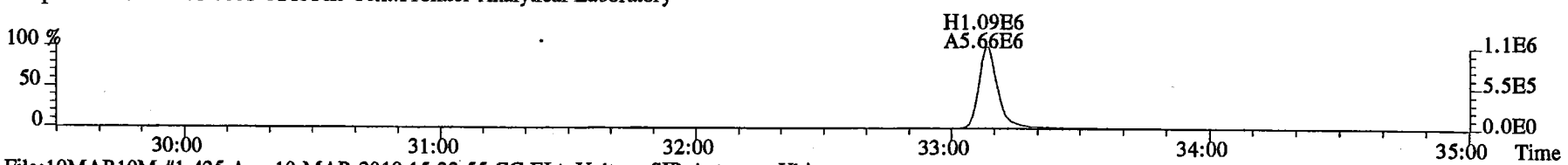
File:10MAR10M #1-425 Acq:10-MAR-2010 15:33:55 GC EI+ Voltage SIR Autospec-Ultima
357.8517 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1959-001-0001-OPR File Text:Frontier Analytical Laboratory



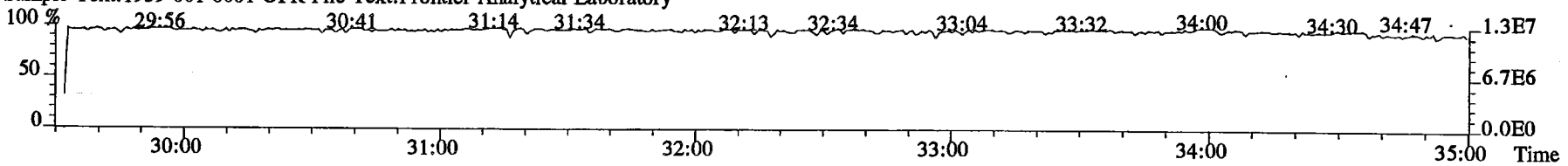
File:10MAR10M #1-425 Acq:10-MAR-2010 15:33:55 GC EI+ Voltage SIR Autospec-Ultima
367.8949 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1959-001-0001-OPR File Text:Frontier Analytical Laboratory



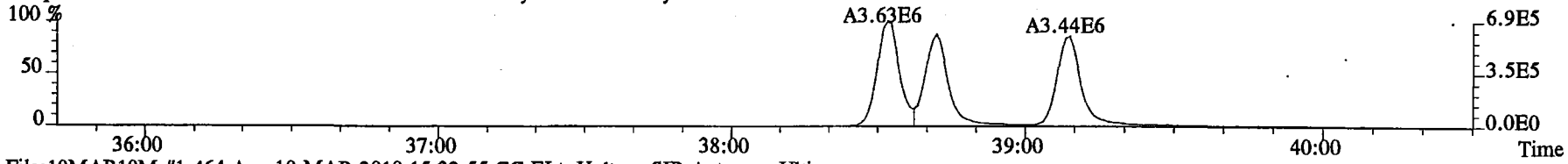
File:10MAR10M #1-425 Acq:10-MAR-2010 15:33:55 GC EI+ Voltage SIR Autospec-Ultima
369.8919 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1959-001-0001-OPR File Text:Frontier Analytical Laboratory



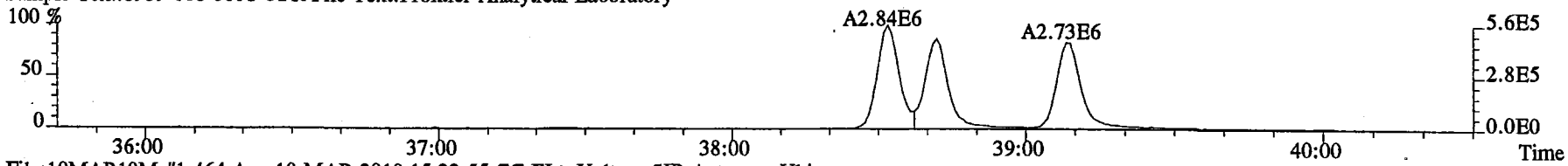
File:10MAR10M #1-425 Acq:10-MAR-2010 15:33:55 GC EI+ Voltage SIR Autospec-Ultima
366.9792 S:3 F:2 Exp:PCDD
Sample Text:1959-001-0001-OPR File Text:Frontier Analytical Laboratory



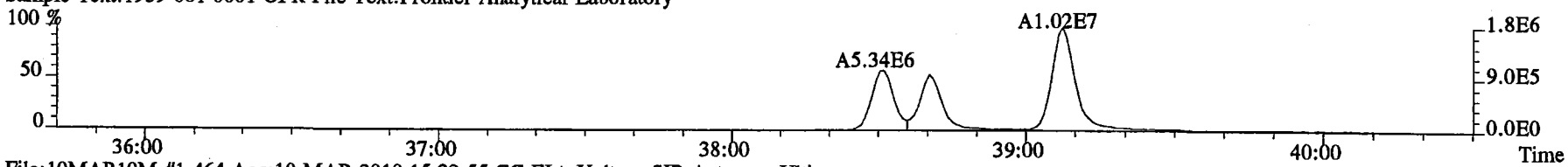
File:10MAR10M #1-464 Acq:10-MAR-2010 15:33:55 GC EI+ Voltage SIR Autospec-Ultima
389.8156 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1959-001-0001-OPR File Text:Frontier Analytical Laboratory



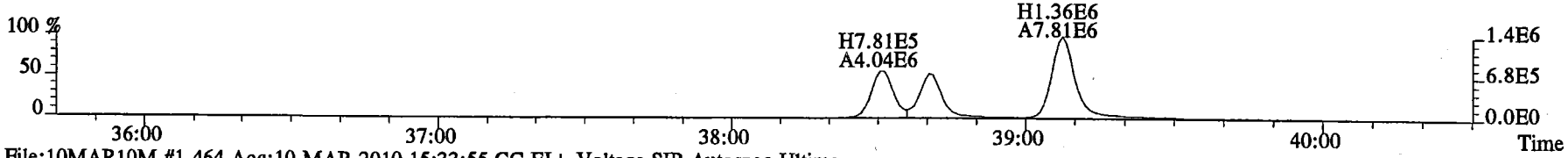
File:10MAR10M #1-464 Acq:10-MAR-2010 15:33:55 GC EI+ Voltage SIR Autospec-Ultima
391.8127 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1959-001-0001-OPR File Text:Frontier Analytical Laboratory



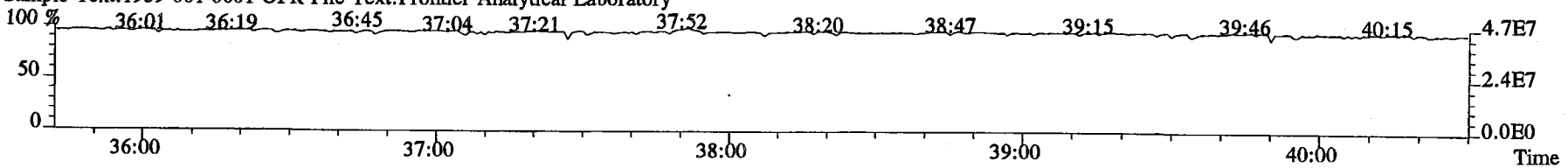
File:10MAR10M #1-464 Acq:10-MAR-2010 15:33:55 GC EI+ Voltage SIR Autospec-Ultima
401.8559 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1959-001-0001-OPR File Text:Frontier Analytical Laboratory



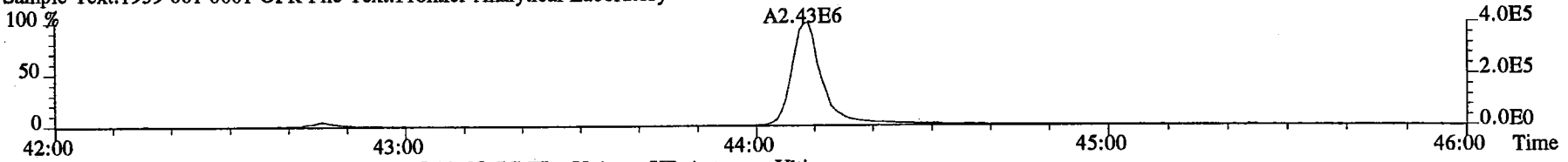
File:10MAR10M #1-464 Acq:10-MAR-2010 15:33:55 GC EI+ Voltage SIR Autospec-Ultima
403.8530 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1959-001-0001-OPR File Text:Frontier Analytical Laboratory



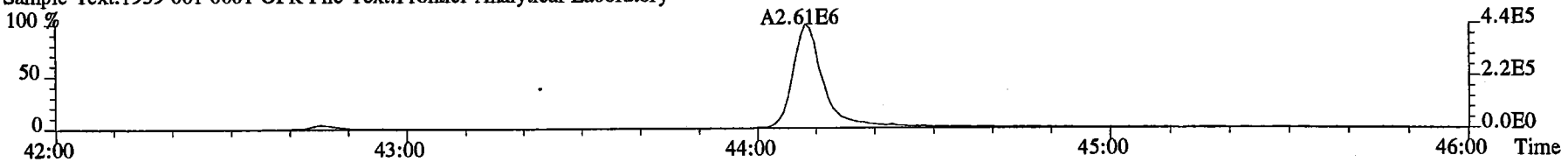
File:10MAR10M #1-464 Acq:10-MAR-2010 15:33:55 GC EI+ Voltage SIR Autospec-Ultima
380.9760 S:3 F:3 Exp:PCDD
Sample Text:1959-001-0001-OPR File Text:Frontier Analytical Laboratory



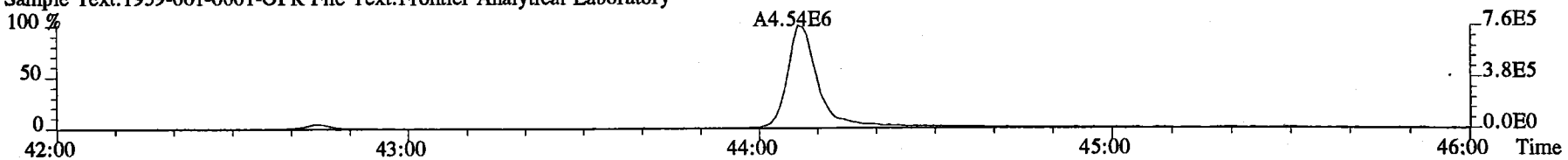
File:10MAR10M #1-541 Acq:10-MAR-2010 15:33:55 GC EI+ Voltage SIR Autospec-Ultima
423.7767 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1959-001-0001-OPR File Text:Frontier Analytical Laboratory



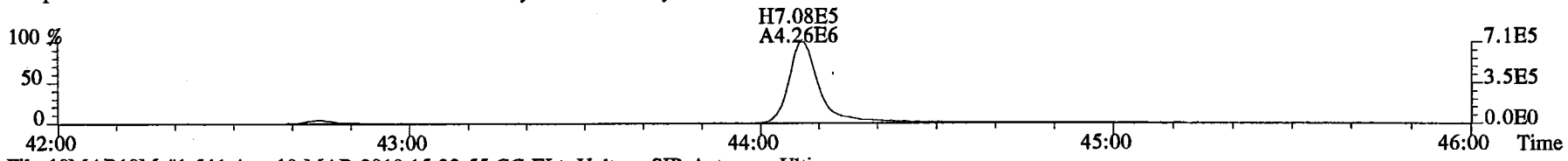
File:10MAR10M #1-541 Acq:10-MAR-2010 15:33:55 GC EI+ Voltage SIR Autospec-Ultima
425.7737 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1959-001-0001-OPR File Text:Frontier Analytical Laboratory



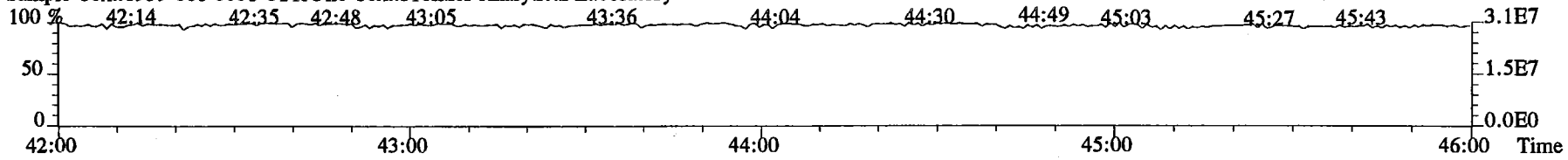
File:10MAR10M #1-541 Acq:10-MAR-2010 15:33:55 GC EI+ Voltage SIR Autospec-Ultima
435.8169 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1959-001-0001-OPR File Text:Frontier Analytical Laboratory



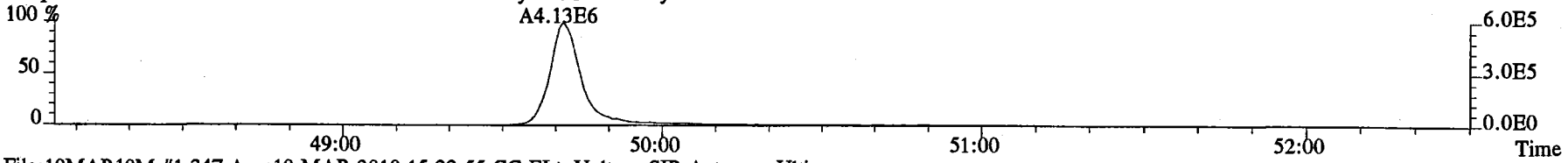
File:10MAR10M #1-541 Acq:10-MAR-2010 15:33:55 GC EI+ Voltage SIR Autospec-Ultima
437.8140 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1959-001-0001-OPR File Text:Frontier Analytical Laboratory



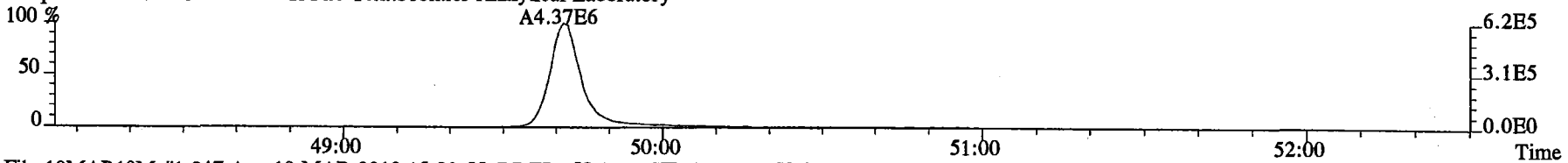
File:10MAR10M #1-541 Acq:10-MAR-2010 15:33:55 GC EI+ Voltage SIR Autospec-Ultima
430.9728 S:3 F:4 Exp:PCDD
Sample Text:1959-001-0001-OPR File Text:Frontier Analytical Laboratory



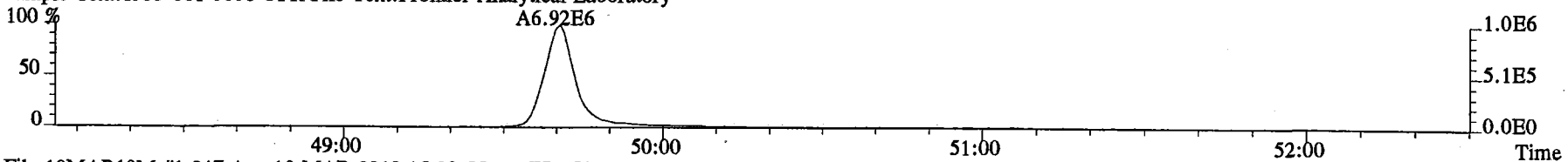
File:10MAR10M #1-347 Acq:10-MAR-2010 15:33:55 GC EI+ Voltage SIR Autospec-Ultima
457.7377 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1959-001-0001-OPR File Text:Frontier Analytical Laboratory



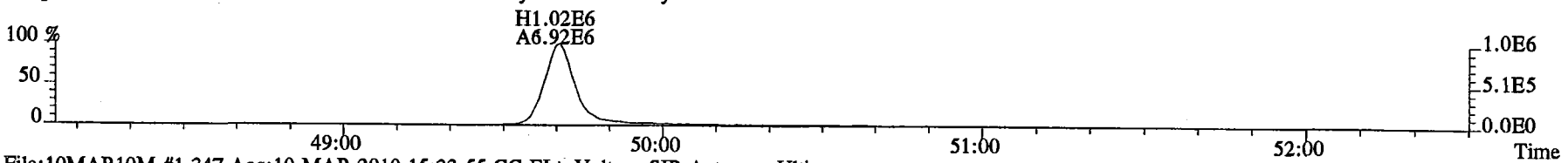
File:10MAR10M #1-347 Acq:10-MAR-2010 15:33:55 GC EI+ Voltage SIR Autospec-Ultima
459.7348 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1959-001-0001-OPR File Text:Frontier Analytical Laboratory



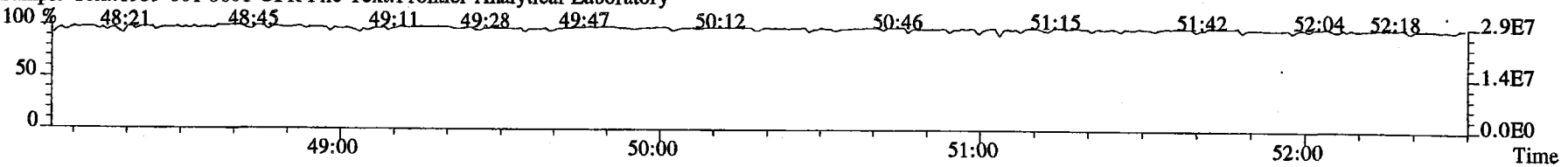
File:10MAR10M #1-347 Acq:10-MAR-2010 15:33:55 GC EI+ Voltage SIR Autospec-Ultima
469.7780 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1959-001-0001-OPR File Text:Frontier Analytical Laboratory



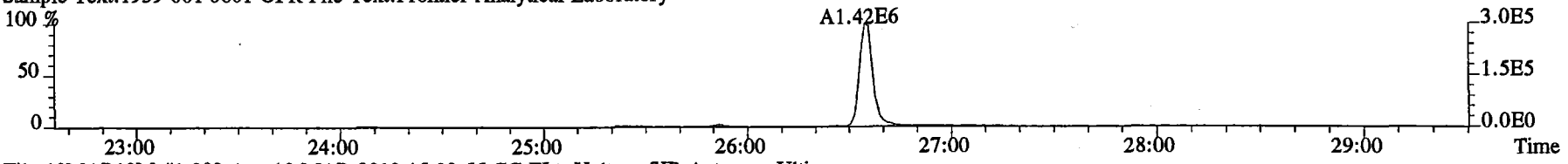
File:10MAR10M #1-347 Acq:10-MAR-2010 15:33:55 GC EI+ Voltage SIR Autospec-Ultima
471.7750 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1959-001-0001-OPR File Text:Frontier Analytical Laboratory



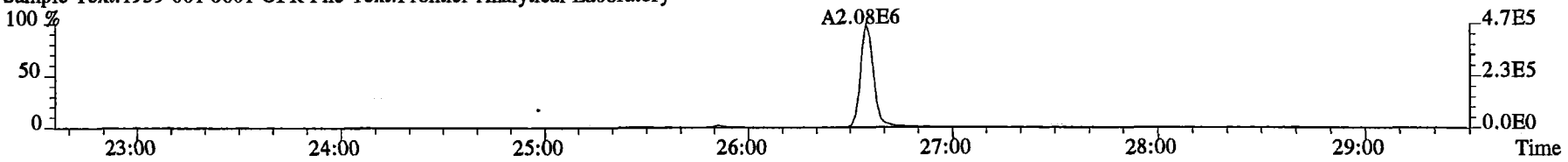
File:10MAR10M #1-347 Acq:10-MAR-2010 15:33:55 GC EI+ Voltage SIR Autospec-Ultima
454.9728 S:3 F:5 Exp:PCDD
Sample Text:1959-001-0001-OPR File Text:Frontier Analytical Laboratory



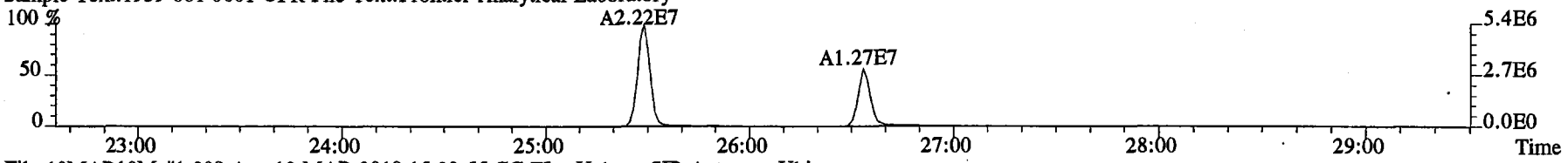
File:10MAR10M #1-390 Acq:10-MAR-2010 15:33:55 GC EI+ Voltage SIR Autospec-Ultima
303.9016 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1959-001-0001-OPR File Text:Frontier Analytical Laboratory



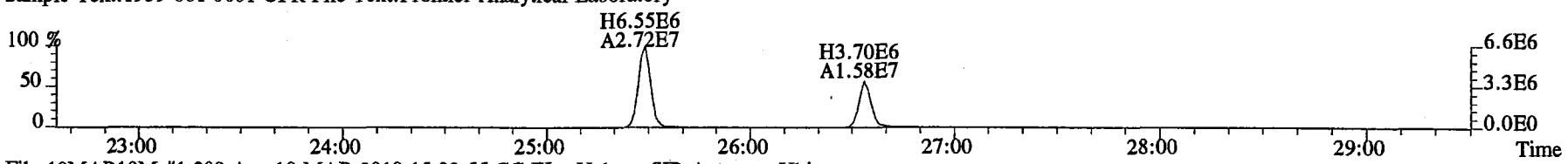
File:10MAR10M #1-390 Acq:10-MAR-2010 15:33:55 GC EI+ Voltage SIR Autospec-Ultima
305.8987 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1959-001-0001-OPR File Text:Frontier Analytical Laboratory



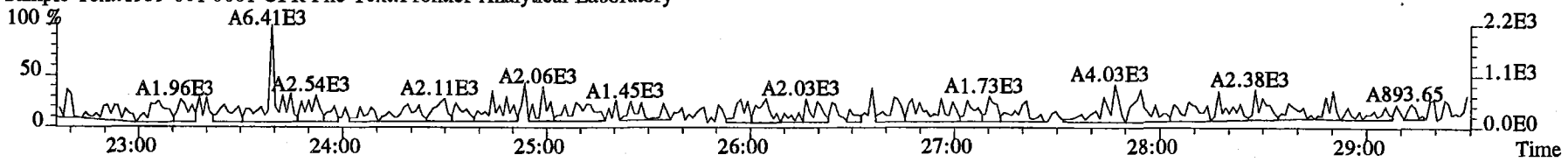
File:10MAR10M #1-390 Acq:10-MAR-2010 15:33:55 GC EI+ Voltage SIR Autospec-Ultima
315.9419 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1959-001-0001-OPR File Text:Frontier Analytical Laboratory



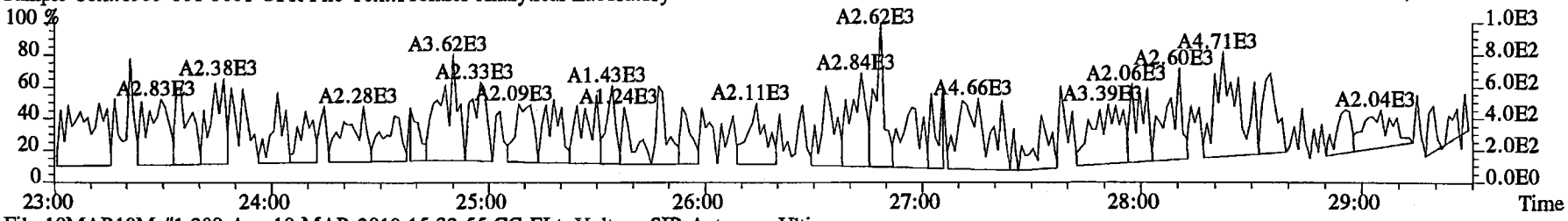
File:10MAR10M #1-390 Acq:10-MAR-2010 15:33:55 GC EI+ Voltage SIR Autospec-Ultima
317.9389 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1959-001-0001-OPR File Text:Frontier Analytical Laboratory



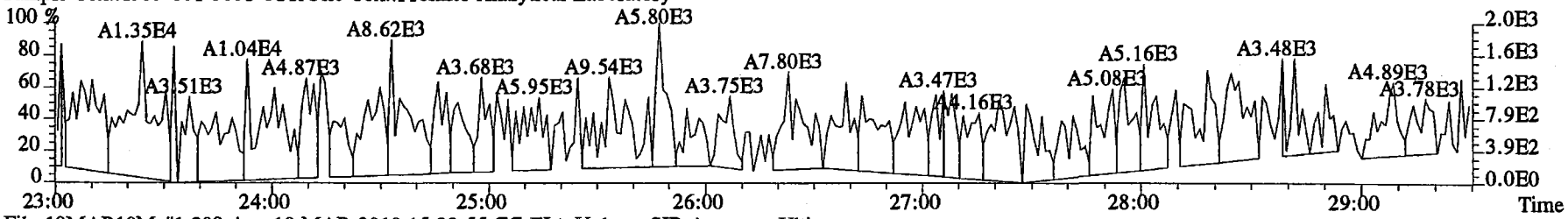
File:10MAR10M #1-390 Acq:10-MAR-2010 15:33:55 GC EI+ Voltage SIR Autospec-Ultima
375.8364 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1959-001-0001-OPR File Text:Frontier Analytical Laboratory



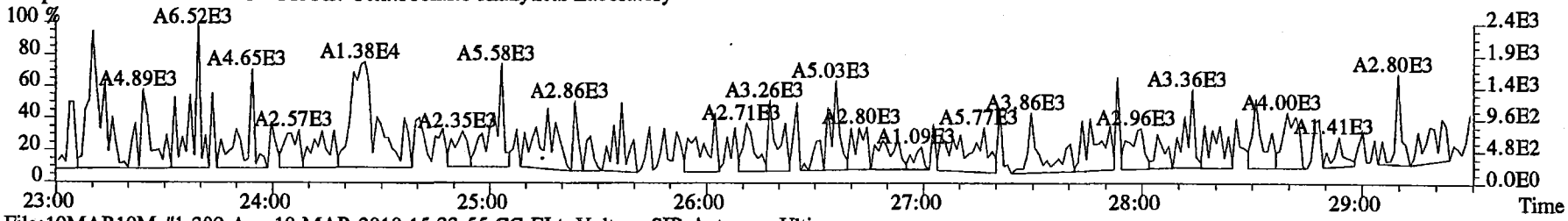
File:10MAR10M #1-390 Acq:10-MAR-2010 15:33:55 GC EI+ Voltage SIR Autospec-Ultima
339.8597 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1959-001-0001-OPR File Text:Frontier Analytical Laboratory



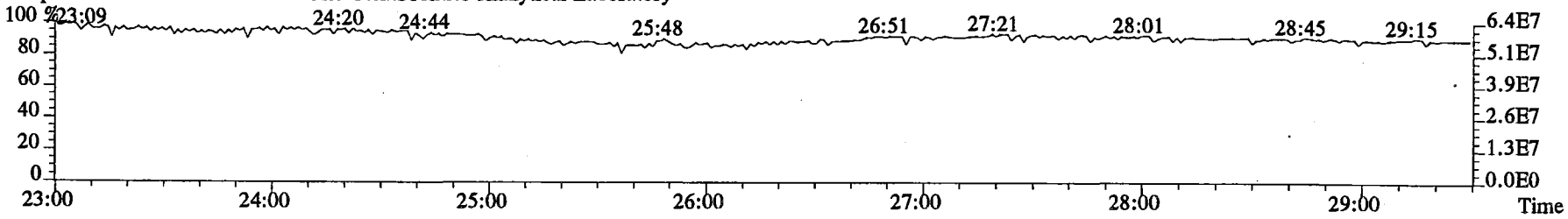
File:10MAR10M #1-390 Acq:10-MAR-2010 15:33:55 GC EI+ Voltage SIR Autospec-Ultima
341.8568 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1959-001-0001-OPR File Text:Frontier Analytical Laboratory



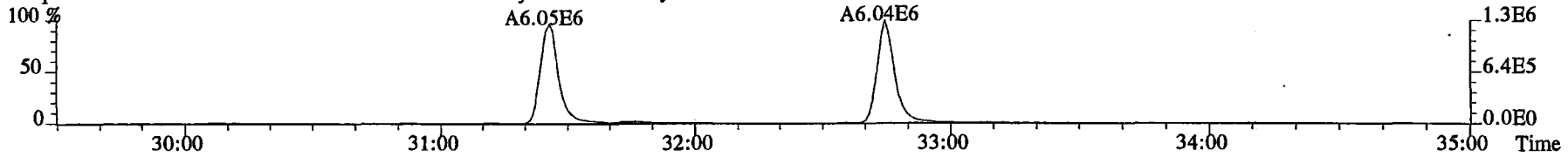
File:10MAR10M #1-390 Acq:10-MAR-2010 15:33:55 GC EI+ Voltage SIR Autospec-Ultima
409.7974 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1959-001-0001-OPR File Text:Frontier Analytical Laboratory



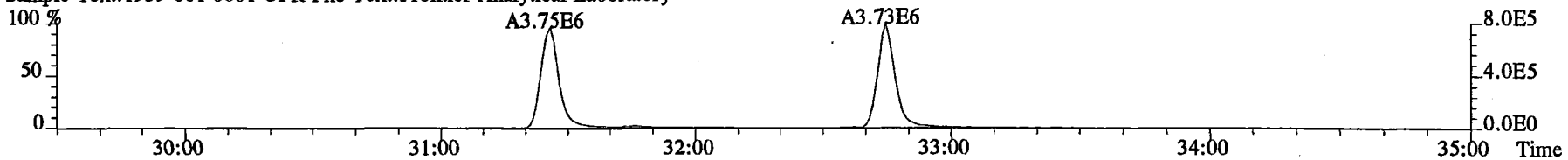
File:10MAR10M #1-390 Acq:10-MAR-2010 15:33:55 GC EI+ Voltage SIR Autospec-Ultima
330.9792 S:3 Exp:PCDD
Sample Text:1959-001-0001-OPR File Text:Frontier Analytical Laboratory



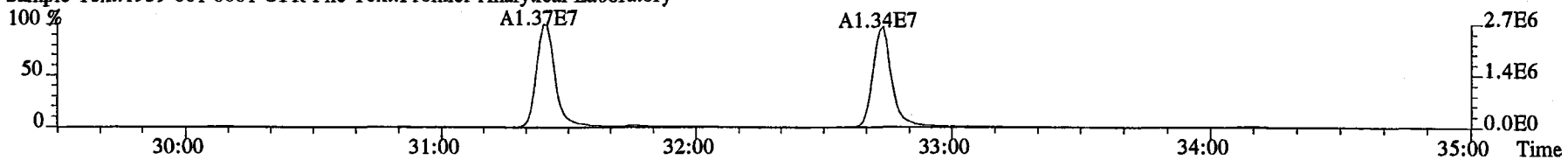
File:10MAR10M #1-425 Acq:10-MAR-2010 15:33:55 GC EI+ Voltage SIR Autospec-Ultima
339.8597 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1959-001-0001-OPR File Text:Frontier Analytical Laboratory



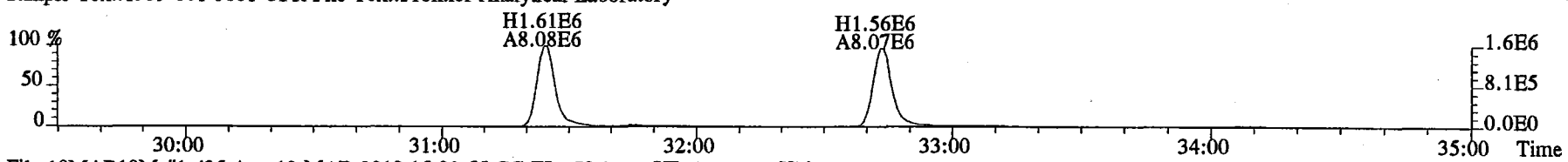
File:10MAR10M #1-425 Acq:10-MAR-2010 15:33:55 GC EI+ Voltage SIR Autospec-Ultima
341.8568 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1959-001-0001-OPR File Text:Frontier Analytical Laboratory



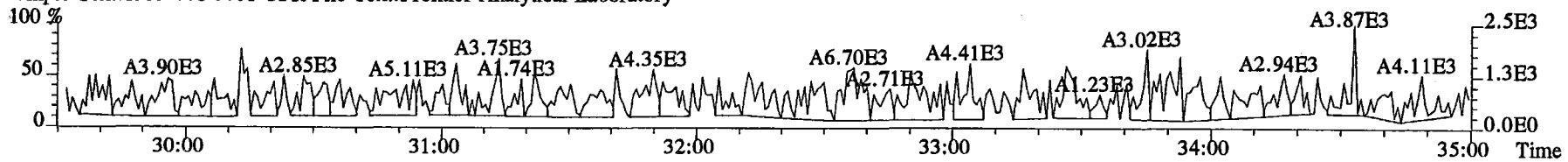
File:10MAR10M #1-425 Acq:10-MAR-2010 15:33:55 GC EI+ Voltage SIR Autospec-Ultima
351.9000 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1959-001-0001-OPR File Text:Frontier Analytical Laboratory



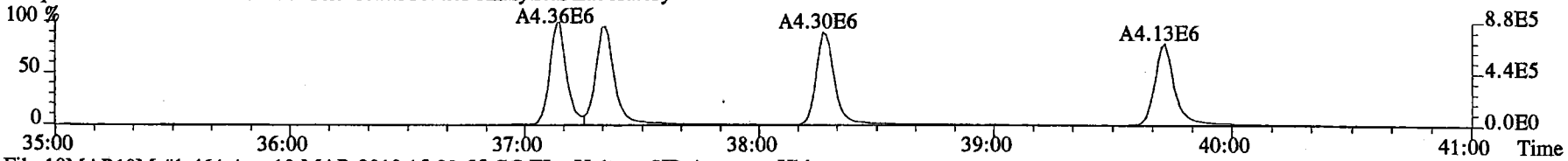
File:10MAR10M #1-425 Acq:10-MAR-2010 15:33:55 GC EI+ Voltage SIR Autospec-Ultima
353.8970 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1959-001-0001-OPR File Text:Frontier Analytical Laboratory



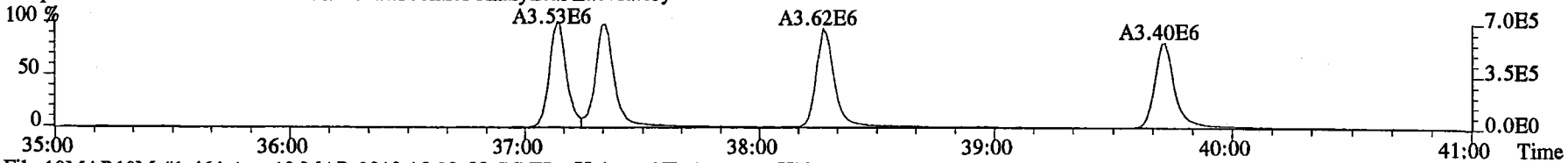
File:10MAR10M #1-425 Acq:10-MAR-2010 15:33:55 GC EI+ Voltage SIR Autospec-Ultima
409.7974 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1959-001-0001-OPR File Text:Frontier Analytical Laboratory



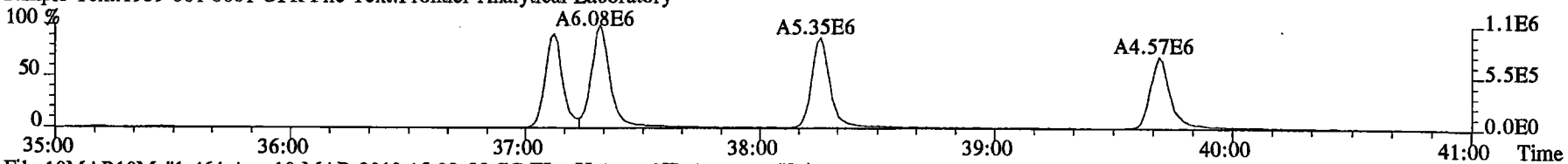
File:10MAR10M #1-464 Acq:10-MAR-2010 15:33:55 GC EI+ Voltage SIR Autospec-Ultima
373.8207 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1959-001-0001-OPR File Text:Frontier Analytical Laboratory



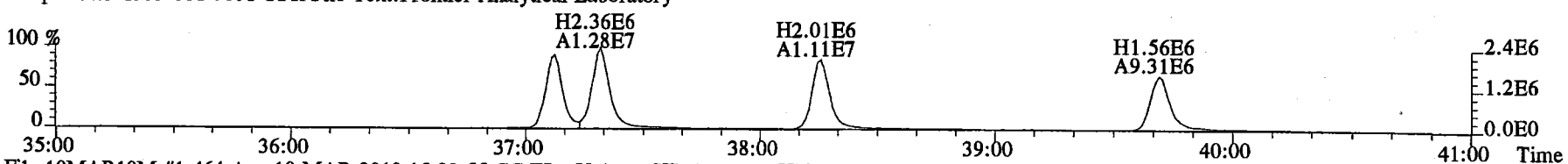
File:10MAR10M #1-464 Acq:10-MAR-2010 15:33:55 GC EI+ Voltage SIR Autospec-Ultima
375.8178 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1959-001-0001-OPR File Text:Frontier Analytical Laboratory



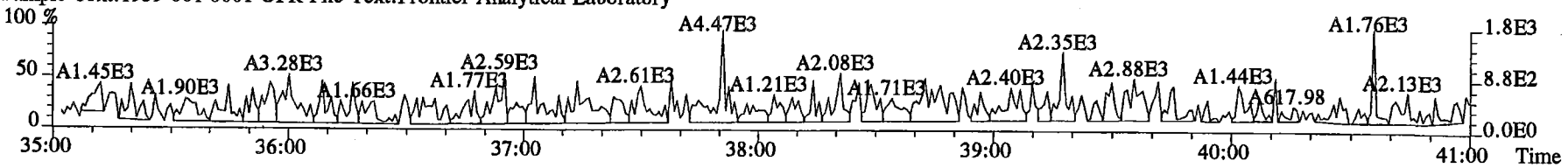
File:10MAR10M #1-464 Acq:10-MAR-2010 15:33:55 GC EI+ Voltage SIR Autospec-Ultima
383.8639 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1959-001-0001-OPR File Text:Frontier Analytical Laboratory



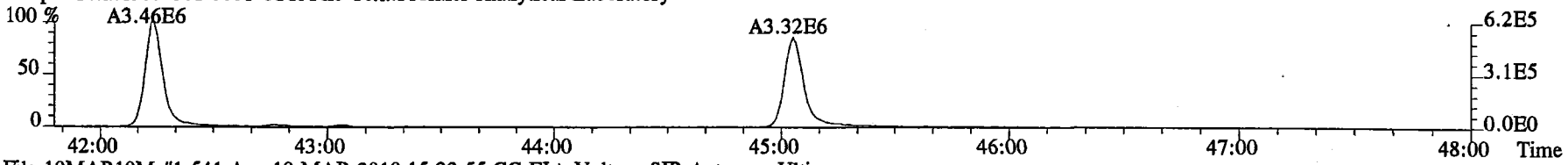
File:10MAR10M #1-464 Acq:10-MAR-2010 15:33:55 GC EI+ Voltage SIR Autospec-Ultima
385.8610 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1959-001-0001-OPR File Text:Frontier Analytical Laboratory



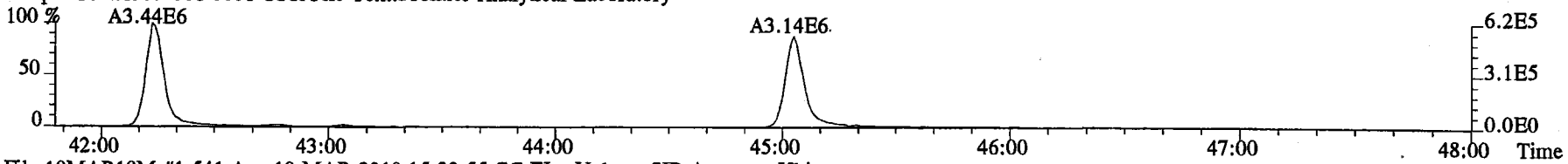
File:10MAR10M #1-464 Acq:10-MAR-2010 15:33:55 GC EI+ Voltage SIR Autospec-Ultima
445.7555 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1959-001-0001-OPR File Text:Frontier Analytical Laboratory



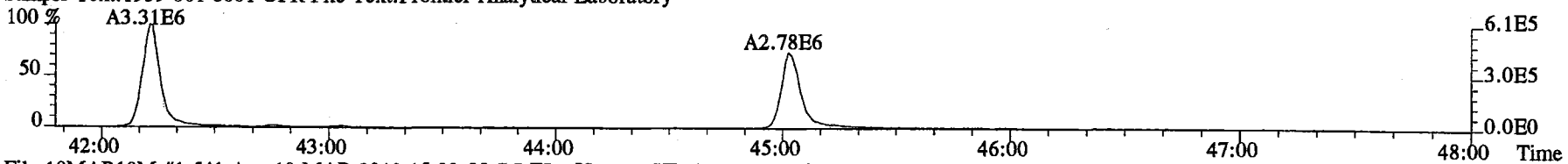
File:10MAR10M #1-541 Acq:10-MAR-2010 15:33:55 GC EI+ Voltage SIR Autospec-Ultima
407.7818 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1959-001-0001-OPR File Text:Frontier Analytical Laboratory



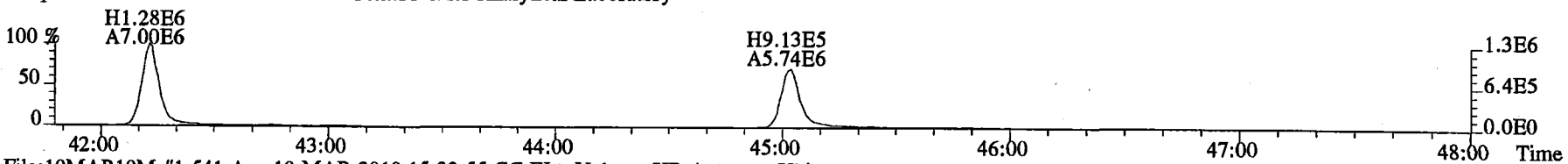
File:10MAR10M #1-541 Acq:10-MAR-2010 15:33:55 GC EI+ Voltage SIR Autospec-Ultima
409.7788 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1959-001-0001-OPR File Text:Frontier Analytical Laboratory



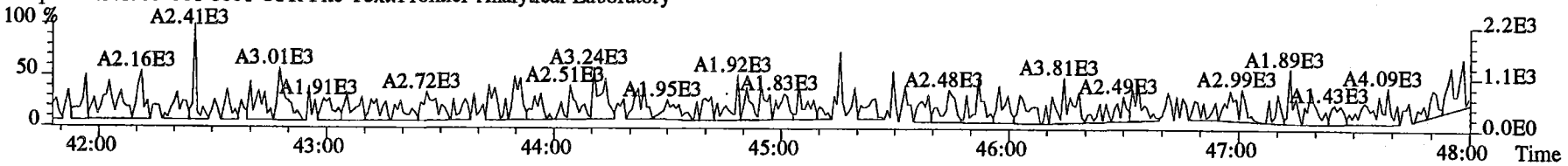
File:10MAR10M #1-541 Acq:10-MAR-2010 15:33:55 GC EI+ Voltage SIR Autospec-Ultima
417.8253 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1959-001-0001-OPR File Text:Frontier Analytical Laboratory



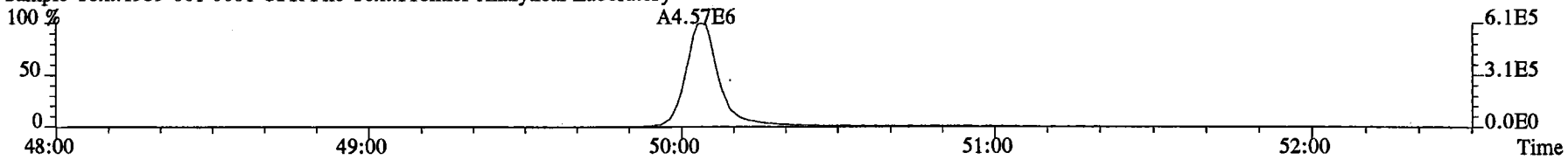
File:10MAR10M #1-541 Acq:10-MAR-2010 15:33:55 GC EI+ Voltage SIR Autospec-Ultima
419.8220 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1959-001-0001-OPR File Text:Frontier Analytical Laboratory



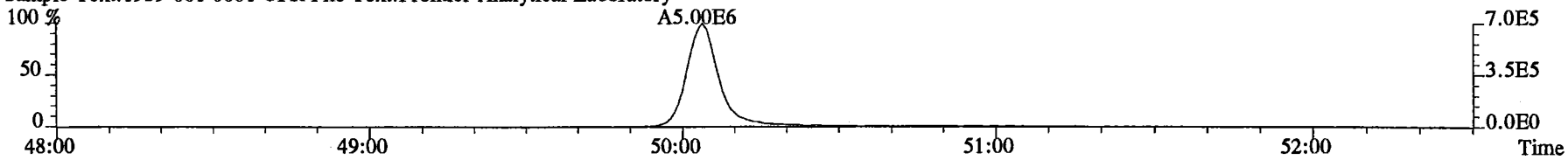
File:10MAR10M #1-541 Acq:10-MAR-2010 15:33:55 GC EI+ Voltage SIR Autospec-Ultima
479.7165 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1959-001-0001-OPR File Text:Frontier Analytical Laboratory



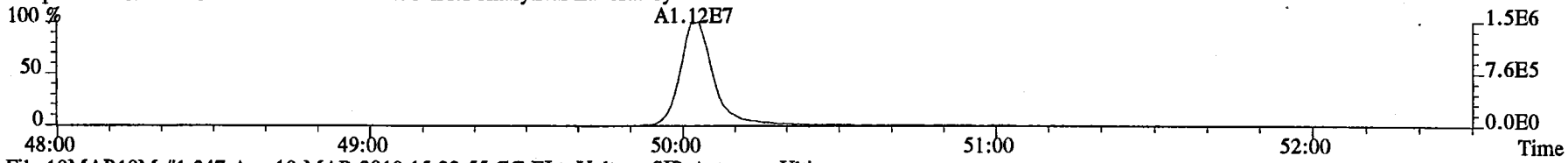
File:10MAR10M #1-347 Acq:10-MAR-2010 15:33:55 GC EI+ Voltage SIR Autospec-Ultima
441.7428 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1959-001-0001-OPR File Text:Frontier Analytical Laboratory



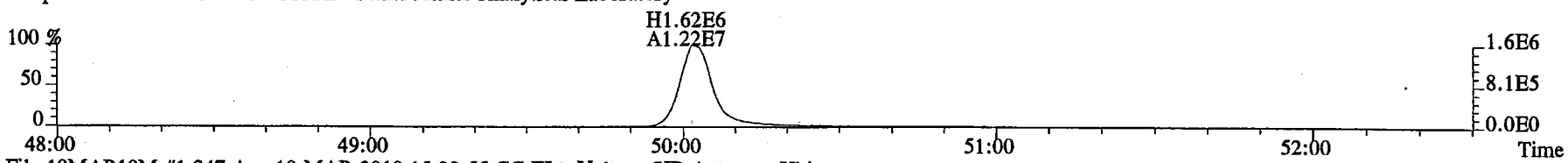
File:10MAR10M #1-347 Acq:10-MAR-2010 15:33:55 GC EI+ Voltage SIR Autospec-Ultima
443.7398 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1959-001-0001-OPR File Text:Frontier Analytical Laboratory



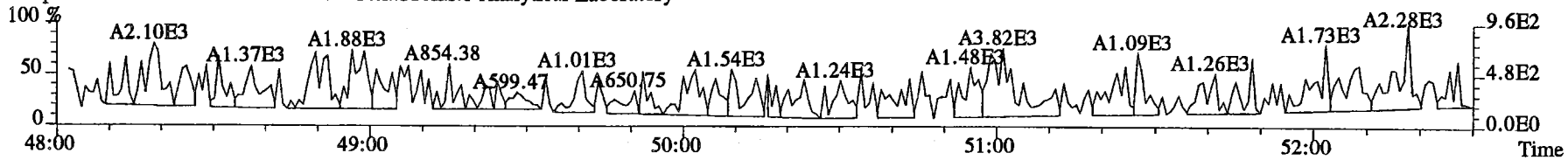
File:10MAR10M #1-347 Acq:10-MAR-2010 15:33:55 GC EI+ Voltage SIR Autospec-Ultima
453.7831 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1959-001-0001-OPR File Text:Frontier Analytical Laboratory



File:10MAR10M #1-347 Acq:10-MAR-2010 15:33:55 GC EI+ Voltage SIR Autospec-Ultima
455.7801 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1959-001-0001-OPR File Text:Frontier Analytical Laboratory



File:10MAR10M #1-347 Acq:10-MAR-2010 15:33:55 GC EI+ Voltage SIR Autospec-Ultima
513.6775 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1959-001-0001-OPR File Text:Frontier Analytical Laboratory



FAL ID: 6012-001-0001-SA Filename: 10MAR10M Sam:11 Acquired: 10-MAR-10 22:56:48 ICal: PCDDFAL3-11-18-09
Client ID: CB31A022710COMP ConCal: ST031010M1 EndCal: ST031010M2
Results: 6012 GC Column: DB5 Amount: 1.037 NATO 1989 Tox: 19.1
WHO 1998 Tox: 15.0 WHO 2005 Tox: 15.4

Name	Resp	RA		RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL
2,3,7,8-TCDD	*	*	n	NotFnd	1.02	*		2.50	786	857	1.67
1,2,3,7,8-PeCDD	*	*	n	NotFnd	0.96	*		2.50	1310	767	2.66
1,2,3,4,7,8-HxCDD	5.93e+04	1.38	y	38:31	1.37	6.12	J	2.50	-	-	*
1,2,3,6,7,8-HxCDD	1.40e+05	1.34	y	38:42	1.34	15.0	J	2.50	-	-	*
1,2,3,7,8,9-HxCDD	9.85e+04	1.24	y	39:08	1.37	10.3	J	2.50	-	-	*
1,2,3,4,6,7,8-HpCDD	4.02e+06	0.93	y	44:08	1.17	500		2.50	-	-	*
OCDD	2.75e+07	0.94	y	49:42	1.21	4270		2.50	-	-	*
2,3,7,8-TCDF	*	*	n	NotFnd	1.29	*		2.50	454	988	0.678
1,2,3,7,8-PeCDF	*	*	n	NotFnd	0.89	*		2.50	665	589	1.18
2,3,4,7,8-PeCDF	3.59e+04	1.44	y	32:46	0.91	2.71	J	2.50	-	-	*
1,2,3,4,7,8-HxCDF	2.62e+05	1.17	y	37:08	1.00	21.7	J	2.50	-	-	*
1,2,3,6,7,8-HxCDF	8.89e+04	1.40	y	37:20	0.92	6.94	J	2.50	-	-	*
2,3,4,6,7,8-HxCDF	8.72e+04	1.22	y	38:16	0.99	7.26	J	2.50	-	-	*
1,2,3,7,8,9-HxCDF	2.96e+04	1.11	y	39:46	1.09	2.49	J	2.50	-	-	*
1,2,3,4,6,7,8-HpCDF	1.16e+06	0.97	y	42:14	1.36	108		2.50	-	-	*
1,2,3,4,7,8,9-HpCDF	1.41e+05	0.91	y	45:03	1.61	13.0	J	2.50	-	-	*
OCDF	2.40e+06	0.88	y	50:03	0.84	328		2.50	-	-	*
											Rec
13C-2,3,7,8-TCDD	2.06e+07	0.74	y	27:18	0.94	1690					87.8
13C-1,2,3,7,8-PeCDD	1.95e+07	1.62	y	33:08	1.02	1480					77.0
13C-1,2,3,4,7,8-HxCDD	1.36e+07	1.32	y	38:31	0.98	1580					82.1
13C-1,2,3,6,7,8-HxCDD	1.35e+07	1.31	y	38:40	0.94	1650					85.3
13C-1,2,3,4,6,7,8-HpCDD	1.33e+07	1.04	y	44:07	0.90	1700					87.9
13C-OCDD	2.05e+07	0.98	y	49:41	0.67	3520					91.2
13C-2,3,7,8-TCDF	3.42e+07	0.82	y	26:33	0.88	1690					87.6
13C-1,2,3,7,8-PeCDF	2.80e+07	1.68	y	31:24	0.88	1380					71.6
13C-2,3,4,7,8-PeCDF	2.83e+07	1.69	y	32:43	0.85	1440					74.9
13C-1,2,3,4,7,8-HxCDF	2.33e+07	0.47	y	37:07	1.72	1560					80.6
13C-1,2,3,6,7,8-HxCDF	2.70e+07	0.48	y	37:19	2.00	1540					80.1
13C-2,3,4,6,7,8-HxCDF	2.35e+07	0.47	y	38:15	1.74	1550					80.5
13C-1,2,3,7,8,9-HxCDF	2.11e+07	0.48	y	39:41	1.51	1610					83.3
13C-1,2,3,4,6,7,8-HpCDF	1.53e+07	0.48	y	42:13	1.10	1590					82.5
13C-1,2,3,4,7,8,9-HpCDF	1.30e+07	0.48	y	45:02	0.85	1760					91.0
13C-OCDF	3.34e+07	0.93	y	50:03	1.17	3260					84.6
37Cl-2,3,7,8-TCDD	1.02e+07			27:20	0.97	811					105
13C-1,2,3,4-TCDD	2.49e+07	0.74	y	26:44	-	91.8					
13C-1,2,3,4-TCDF	4.45e+07	0.81	y	25:28	-	92.9					
13C-1,2,3,7,8,9-HxCDD	1.68e+07	1.29	y	39:07	-	79.1					

				Fac	Noise-1	Noise-2	DL		#Hom
Total Tetra-Dioxins	*	NotFnd	1.02	*		2.50	786	857	1.67		0
Total Penta-Dioxins	*	NotFnd	0.96	*		2.50	1310	767	2.66		0
Total Hexa-Dioxins	7.90e+05	36:04	1.36	82.9		2.50	-	-	*		6
Total Hepta-Dioxins	6.80e+06	42:46	1.17	844		2.50	-	-	*		2
Total Tetra-Furans	1.72e+05	23:43	1.29	7.53	D,M	2.50	-	-	*		3
1st Fn. Tot Penta-Furans	1.22e+05	28:24	0.90	9.36	D,M	2.50	-	-	*	PeCDF	1
Total Penta-Furans	3.28e+05	30:10	0.90	25.0	D,M	2.50	-	-	*	34.4	5
Total Hexa-Furans	2.38e+06	35:12	0.99	196	D,M	2.50	-	-	*		8
Total Hepta-Furans	4.01e+06	42:14	1.47	373		2.50	-	-	*		4

Analyst: _____ Date: 3/11/10

Totals class: Total Hexa-Dioxins Entry #: 40

Run: 17 File: 10MAR10M S: 11 I: 1 F: 3
Acquired: 10-MAR-10 22:56:48

Total Concentration: 82.9 Unnamed Concentration: 51.522

RT	ml Resp	m2 Resp	RA		Resp	Concentration	Name
36:04	7.64e+04	5.91e+04	1.29	y	1.35e+05	14.2	
36:59	2.53e+04	1.79e+04	1.41	y	4.33e+04	4.53	
37:25	1.80e+05	1.33e+05	1.35	y	3.13e+05	32.8	
38:31	3.44e+04	2.50e+04	1.38	y	5.93e+04	6.12	1,2,3,4,7,8-HxCDD
38:42	8.05e+04	5.99e+04	1.34	y	1.40e+05	15.0	1,2,3,6,7,8-HxCDD
39:08	5.45e+04	4.40e+04	1.24	y	9.85e+04	10.3	1,2,3,7,8,9-HxCDD

Totals class: Total Hepta-Dioxins Entry #: 41

Run: 17 File: 10MAR10M S: 11 I: 1 F: 4
Acquired: 10-MAR-10 22:56:48

Total Concentration: 844 Unnamed Concentration: 344.431

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
42:46	1.34e+06	1.43e+06	0.93 y	2.77e+06	344	
44:08	1.94e+06	2.09e+06	0.93 y	4.02e+06	500	1,2,3,4,6,7,8-HpCDD

Totals class: Total Tetra-Furans Entry #: 42

Run: 17 File: 10MAR10M S: 11 I: 1 F: 1
Acquired: 10-MAR-10 22:56:48

Total Concentration: 7.53 Unnamed Concentration: 7.528

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
23:43	1.06e+04	1.50e+04	0.71 y	2.57e+04	1.13	
27:48	3.79e+04	5.74e+04	0.66 y	9.53e+04	4.18	
28:00	2.02e+04	3.04e+04	0.66 y	5.07e+04	2.22	

Totals class: 1st Fn. Tot Penta-Furans Entry #: 43

Run: 17 File: 10MAR10M S: 11 I: 1 F: 1
Acquired: 10-MAR-10 22:56:48

Total Concentration: 9.36 Unnamed Concentration: 9.361

RT	ml Resp	m2 Resp	RA		Resp	Concentration	Name
28:24	7.12e+04	5.13e+04	1.39	y	1.22e+05	9.36	

Totals class: Total Penta-Furans Entry #: 44

Run: 17 File: 10MAR10M S: 11 I: 1 F: 2
Acquired: 10-MAR-10 22:56:48

Total Concentration: 25.0 Unnamed Concentration: 22.312

RT	ml Resp	m2 Resp	RA		Resp	Concentration	Name
30:10	6.46e+04	4.17e+04	1.55	y	1.06e+05	8.12	
31:41	5.89e+04	3.85e+04	1.53	y	9.75e+04	7.45	
32:00	1.79e+04	1.33e+04	1.35	y	3.12e+04	2.38	
32:46	2.12e+04	1.47e+04	1.44	y	3.59e+04	2.71	2,3,4,7,8-PeCDF
34:03	3.41e+04	2.29e+04	1.49	y	5.71e+04	4.36	

Totals class: Total Hexa-Furans Entry #: 45

Run: 17 File: 10MAR10M S: 11 I: 1 F: 3
Acquired: 10-MAR-10 22:56:48

Total Concentration: 196 Unnamed Concentration: 157.295

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
35:12	7.23e+04	6.50e+04	1.11 y	1.37e+05	11.3	
35:28	3.05e+05	2.60e+05	1.18 y	5.65e+05	46.4	
36:22	4.68e+05	3.94e+05	1.19 y	8.62e+05	70.7	
37:08	1.41e+05	1.21e+05	1.17 y	2.62e+05	21.7	1,2,3,4,7,8-HxCDF
37:20	5.19e+04	3.70e+04	1.40 y	8.89e+04	6.94	1,2,3,6,7,8-HxCDF
38:02	1.94e+05	1.59e+05	1.22 y	3.53e+05	29.0	
38:16	4.79e+04	3.93e+04	1.22 y	8.72e+04	7.26	2,3,4,6,7,8-HxCDF
39:46	1.56e+04	1.40e+04	1.11 y	2.96e+04	2.49	1,2,3,7,8,9-HxCDF

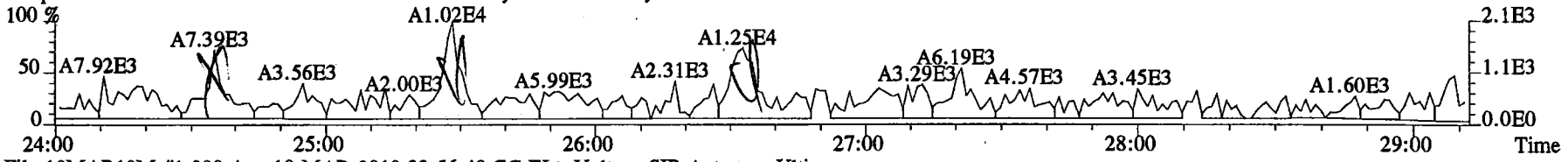
Totals class: Total Hepta-Furans Entry #: 46

Run: 17 File: 10MAR10M S: 11 I: 1 F: 4
Acquired: 10-MAR-10 22:56:48

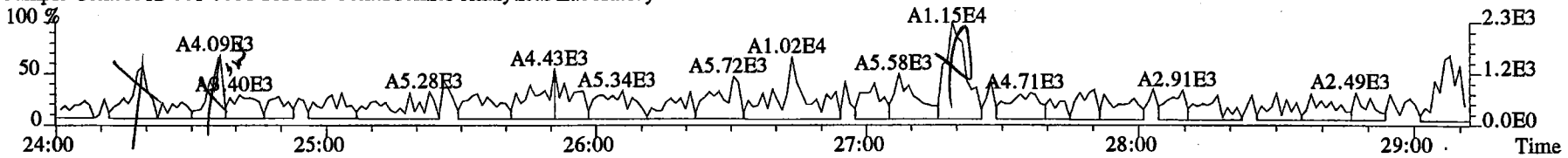
Total Concentration: 373 Unnamed Concentration: 252.170

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
42:14	5.70e+05	5.88e+05	0.97 y	1.16e+06	108	1,2,3,4,6,7,8-HpCDF
42:46	2.71e+04	2.41e+04	1.12 y	5.12e+04	4.77	
43:03	1.37e+06	1.28e+06	1.07 y	2.66e+06	247	
45:03	6.71e+04	7.38e+04	0.91 y	1.41e+05	13.0	1,2,3,4,7,8,9-HpCDF

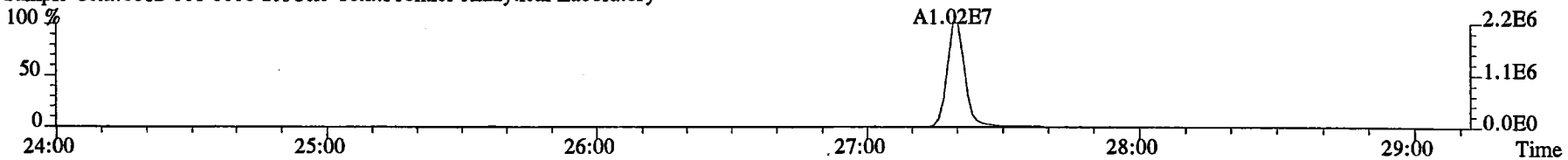
File:10MAR10M #1-390 Acq:10-MAR-2010 22:56:48 GC EI+ Voltage SIR Autospec-Ultima
319.8965 S:11 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-001-0001-SA File Text:Frontier Analytical Laboratory



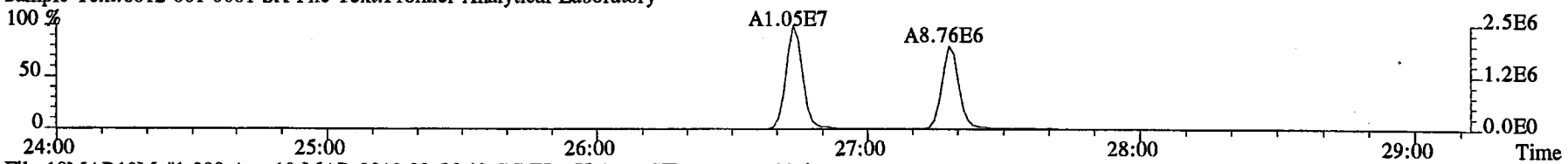
File:10MAR10M #1-390 Acq:10-MAR-2010 22:56:48 GC EI+ Voltage SIR Autospec-Ultima
321.8936 S:11 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-001-0001-SA File Text:Frontier Analytical Laboratory



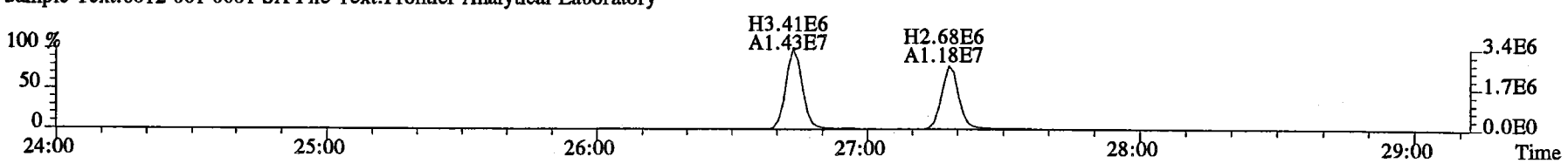
File:10MAR10M #1-390 Acq:10-MAR-2010 22:56:48 GC EI+ Voltage SIR Autospec-Ultima
327.8847 S:11 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-001-0001-SA File Text:Frontier Analytical Laboratory



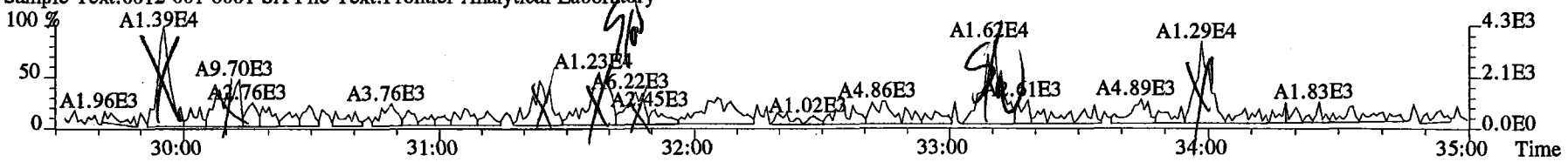
File:10MAR10M #1-390 Acq:10-MAR-2010 22:56:48 GC EI+ Voltage SIR Autospec-Ultima
331.9368 S:11 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-001-0001-SA File Text:Frontier Analytical Laboratory



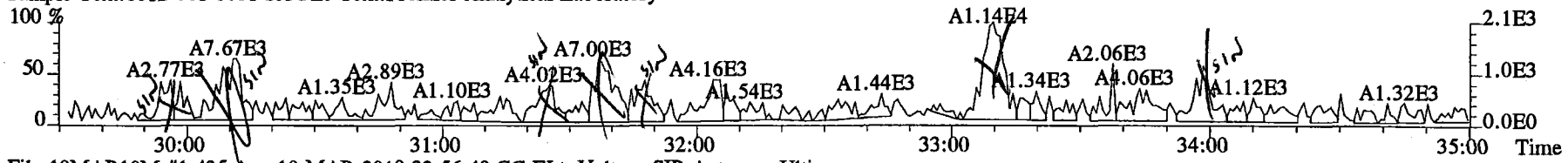
File:10MAR10M #1-390 Acq:10-MAR-2010 22:56:48 GC EI+ Voltage SIR Autospec-Ultima
333.9339 S:11 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-001-0001-SA File Text:Frontier Analytical Laboratory



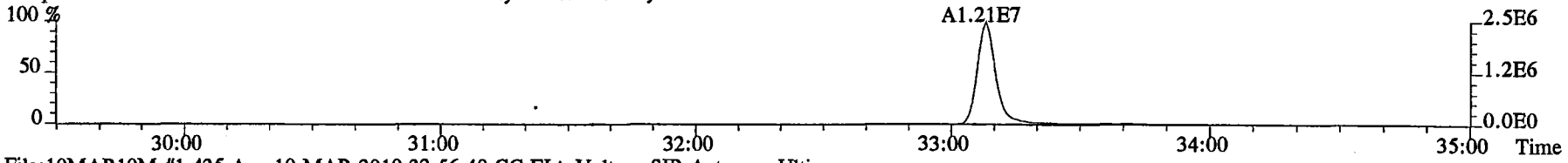
File:10MAR10M #1-425 Acq:10-MAR-2010 22:56:48 GC EI+ Voltage SIR Autospec-Ultima
355.8546 S:11 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-001-0001-SA File Text:Frontier Analytical Laboratory



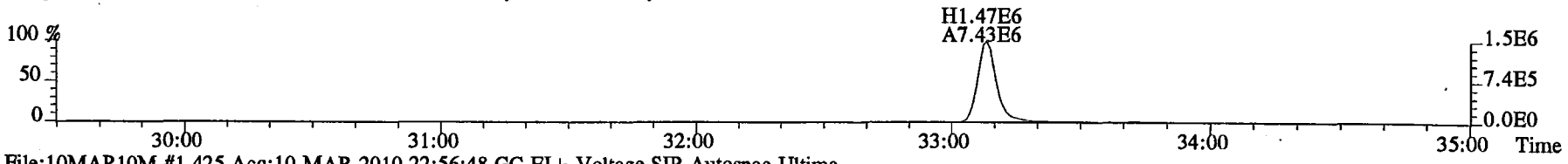
File:10MAR10M #1-425 Acq:10-MAR-2010 22:56:48 GC EI+ Voltage SIR Autospec-Ultima
357.8517 S:11 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-001-0001-SA File Text:Frontier Analytical Laboratory



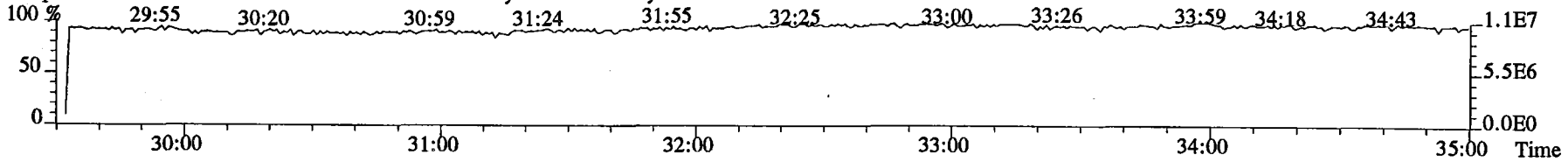
File:10MAR10M #1-425 Acq:10-MAR-2010 22:56:48 GC EI+ Voltage SIR Autospec-Ultima
367.8949 S:11 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-001-0001-SA File Text:Frontier Analytical Laboratory



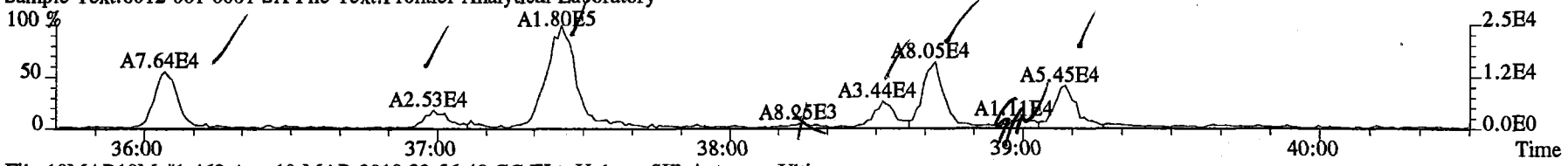
File:10MAR10M #1-425 Acq:10-MAR-2010 22:56:48 GC EI+ Voltage SIR Autospec-Ultima
369.8919 S:11 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-001-0001-SA File Text:Frontier Analytical Laboratory



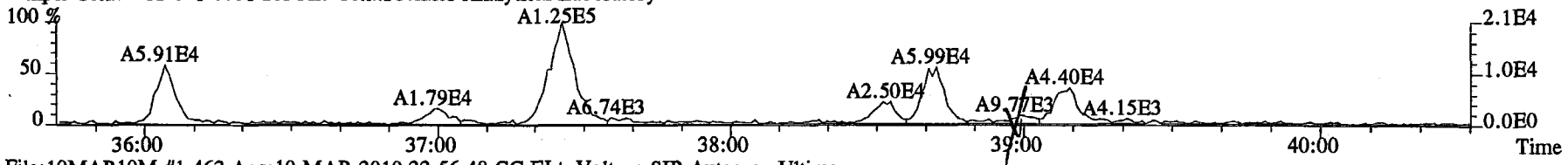
File:10MAR10M #1-425 Acq:10-MAR-2010 22:56:48 GC EI+ Voltage SIR Autospec-Ultima
366.9792 S:11 F:2 Exp:PCDD
Sample Text:6012-001-0001-SA File Text:Frontier Analytical Laboratory



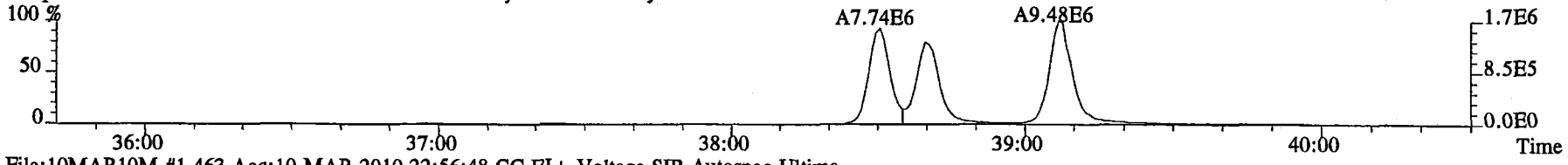
File:10MAR10M #1-463 Acq:10-MAR-2010 22:56:48 GC EI+ Voltage SIR Autospec-Ultima
389.8156 S:11 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-001-0001-SA File Text:Frontier Analytical Laboratory



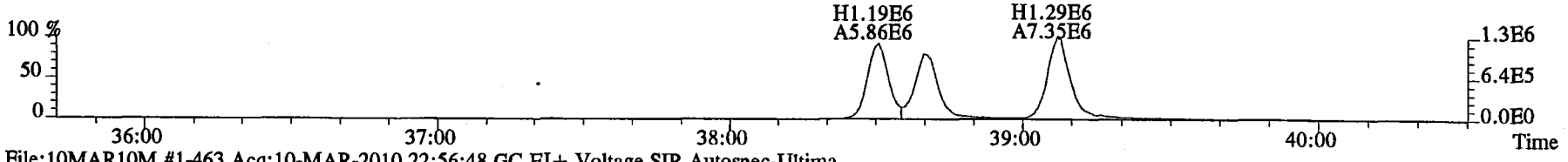
File:10MAR10M #1-463 Acq:10-MAR-2010 22:56:48 GC EI+ Voltage SIR Autospec-Ultima
391.8127 S:11 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-001-0001-SA File Text:Frontier Analytical Laboratory



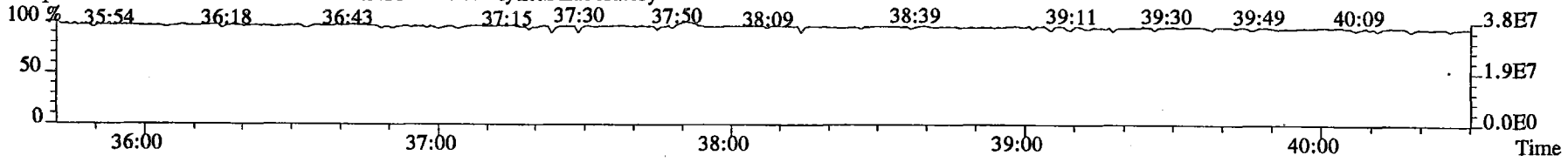
File:10MAR10M #1-463 Acq:10-MAR-2010 22:56:48 GC EI+ Voltage SIR Autospec-Ultima
401.8559 S:11 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-001-0001-SA File Text:Frontier Analytical Laboratory



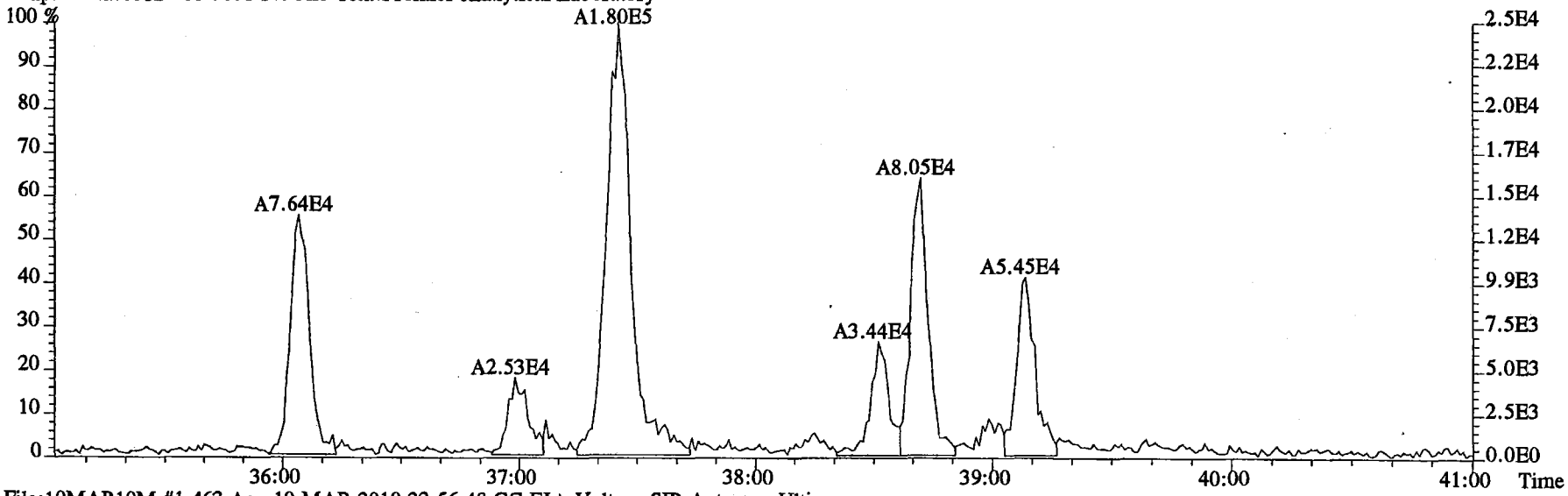
File:10MAR10M #1-463 Acq:10-MAR-2010 22:56:48 GC EI+ Voltage SIR Autospec-Ultima
403.8530 S:11 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-001-0001-SA File Text:Frontier Analytical Laboratory



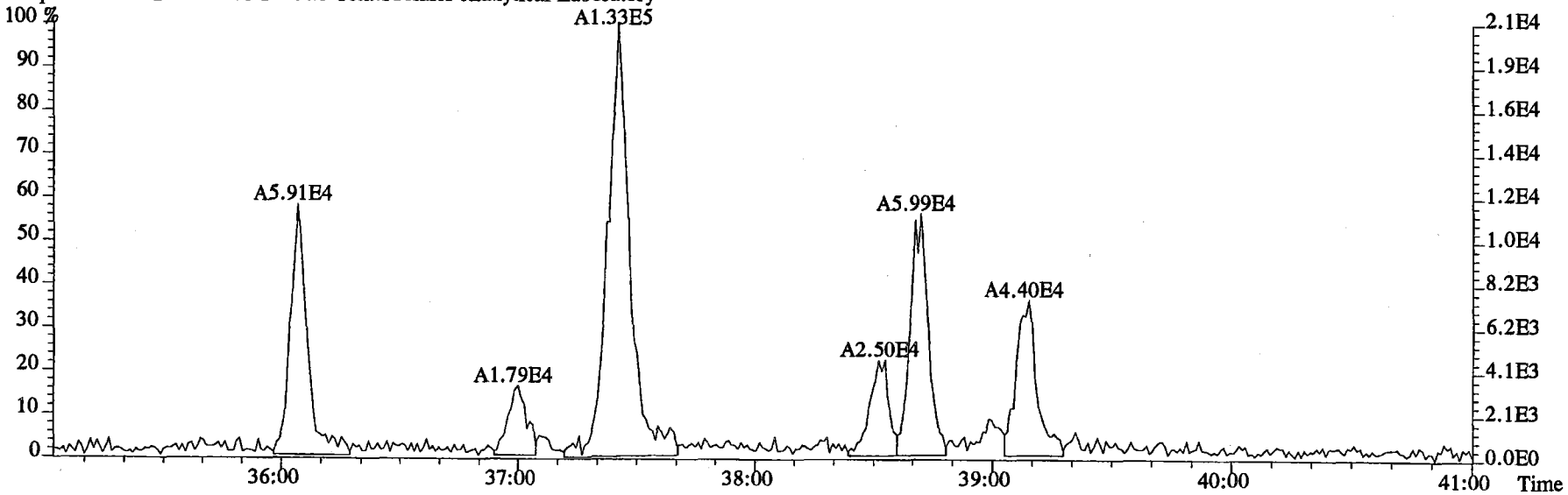
File:10MAR10M #1-463 Acq:10-MAR-2010 22:56:48 GC EI+ Voltage SIR Autospec-Ultima
380.9760 S:11 F:3 Exp:PCDD
Sample Text:6012-001-0001-SA File Text:Frontier Analytical Laboratory



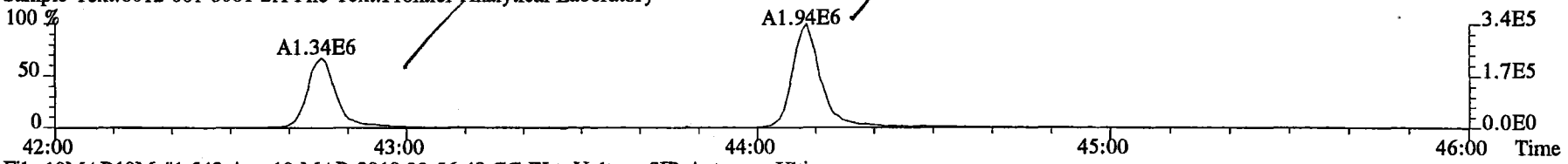
File:10MAR10M #1-463 Acq:10-MAR-2010 22:56:48 GC EI+ Voltage SIR Autospec-Ultima
389.8156 S:11 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-001-0001-SA File Text:Frontier Analytical Laboratory



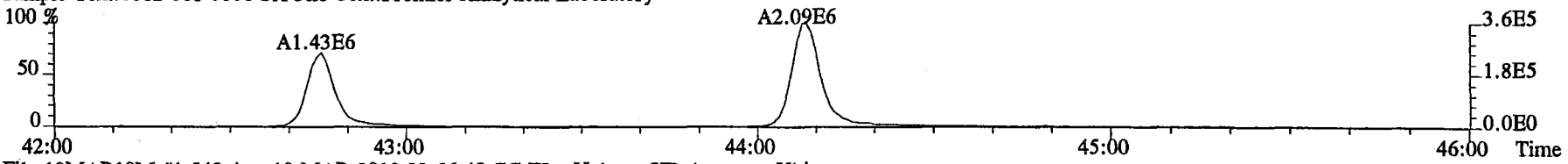
File:10MAR10M #1-463 Acq:10-MAR-2010 22:56:48 GC EI+ Voltage SIR Autospec-Ultima
391.8127 S:11 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-001-0001-SA File Text:Frontier Analytical Laboratory



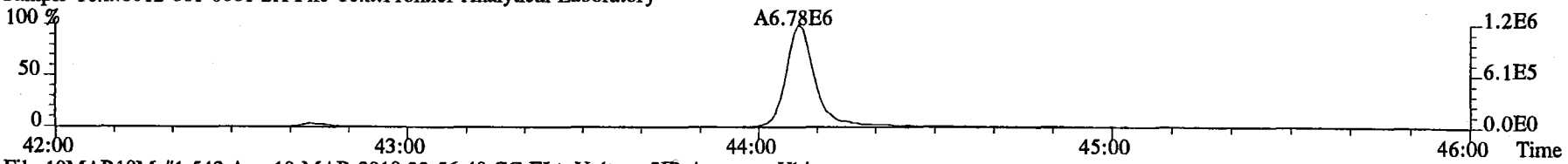
File:10MAR10M #1-542 Acq:10-MAR-2010 22:56:48 GC EI+ Voltage SIR Autospec-Ultima
423.7767 S:11 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-001-0001-SA File Text:Frontier Analytical Laboratory



File:10MAR10M #1-542 Acq:10-MAR-2010 22:56:48 GC EI+ Voltage SIR Autospec-Ultima
425.7737 S:11 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-001-0001-SA File Text:Frontier Analytical Laboratory



File:10MAR10M #1-542 Acq:10-MAR-2010 22:56:48 GC EI+ Voltage SIR Autospec-Ultima
435.8169 S:11 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-001-0001-SA File Text:Frontier Analytical Laboratory



File:10MAR10M #1-542 Acq:10-MAR-2010 22:56:48 GC EI+ Voltage SIR Autospec-Ultima
437.8140 S:11 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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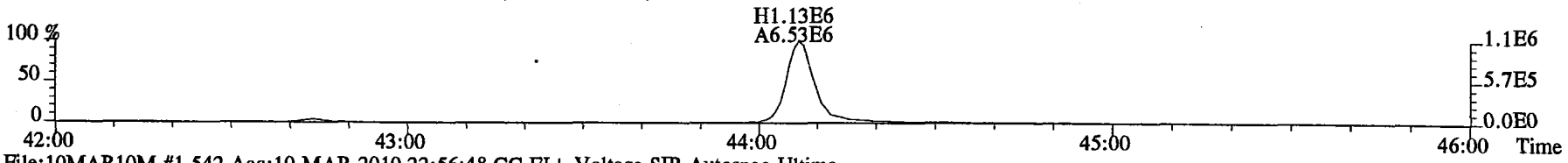
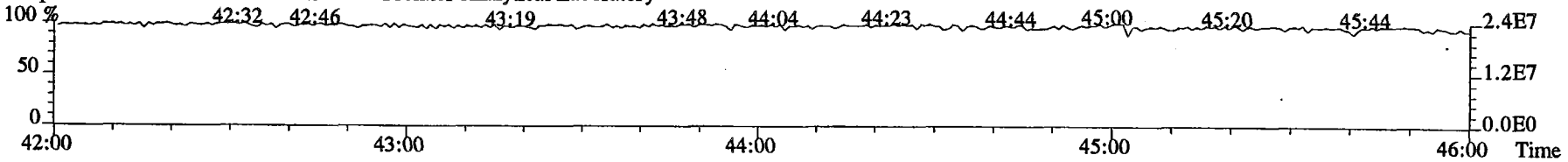
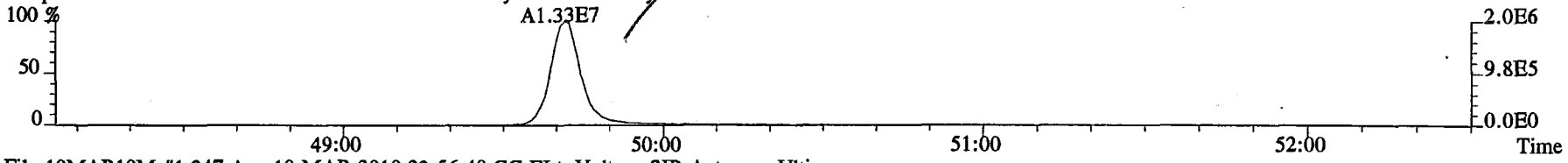


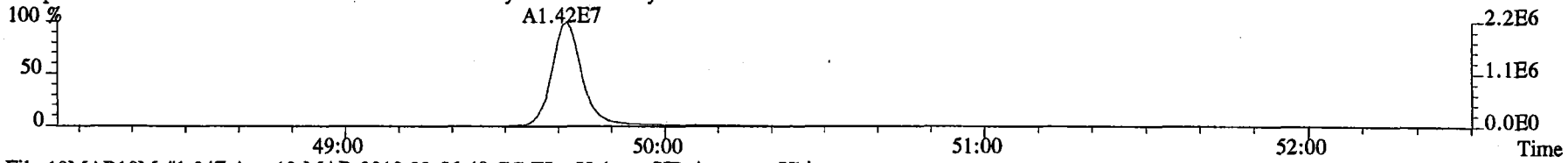
File:10MAR10M #1-542 Acq:10-MAR-2010 22:56:48 GC EI+ Voltage SIR Autospec-Ultima
430.9728 S:11 F:4 Exp:PCDD
Sample Text:6012-001-0001-SA File Text:Frontier Analytical Laboratory



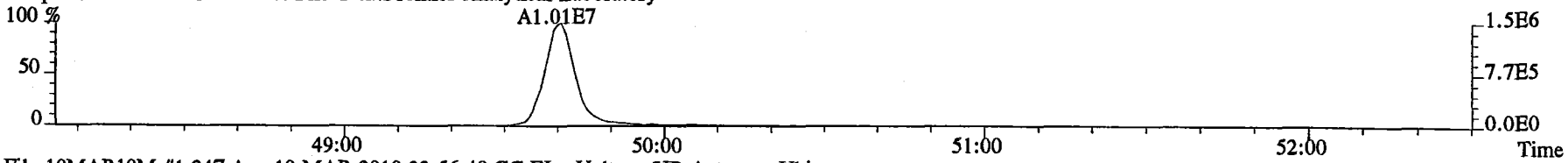
File:10MAR10M #1-347 Acq:10-MAR-2010 22:56:48 GC EI+ Voltage SIR Autospec-Ultima
457.7377 S:11 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-001-0001-SA File Text:Frontier Analytical Laboratory



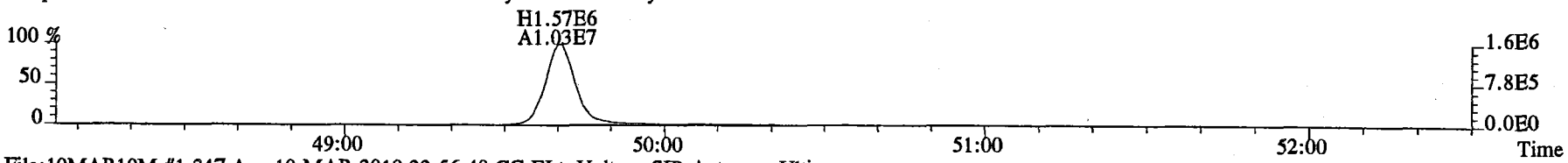
File:10MAR10M #1-347 Acq:10-MAR-2010 22:56:48 GC EI+ Voltage SIR Autospec-Ultima
459.7348 S:11 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-001-0001-SA File Text:Frontier Analytical Laboratory



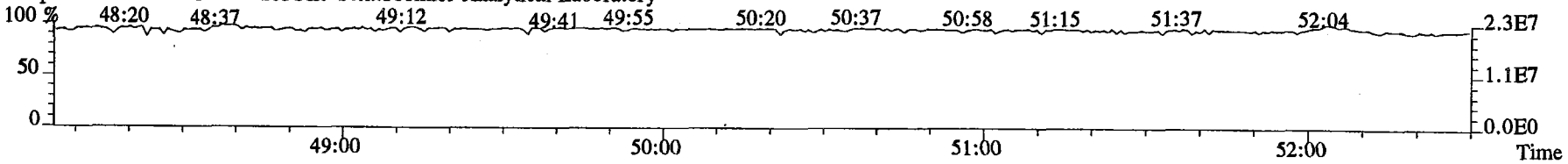
File:10MAR10M #1-347 Acq:10-MAR-2010 22:56:48 GC EI+ Voltage SIR Autospec-Ultima
469.7780 S:11 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-001-0001-SA File Text:Frontier Analytical Laboratory



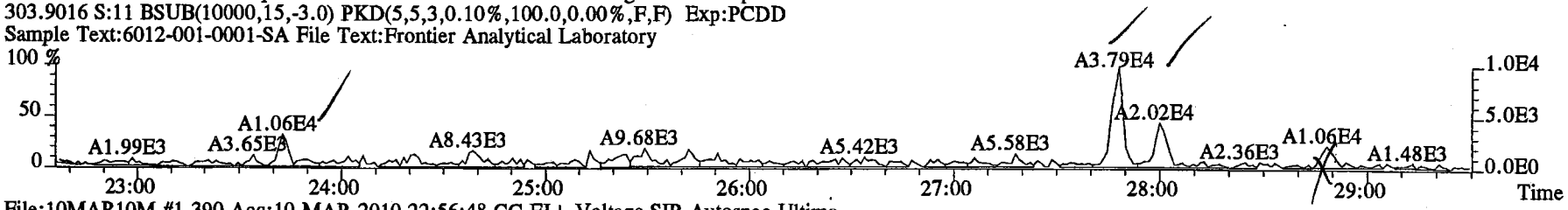
File:10MAR10M #1-347 Acq:10-MAR-2010 22:56:48 GC EI+ Voltage SIR Autospec-Ultima
471.7750 S:11 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-001-0001-SA File Text:Frontier Analytical Laboratory



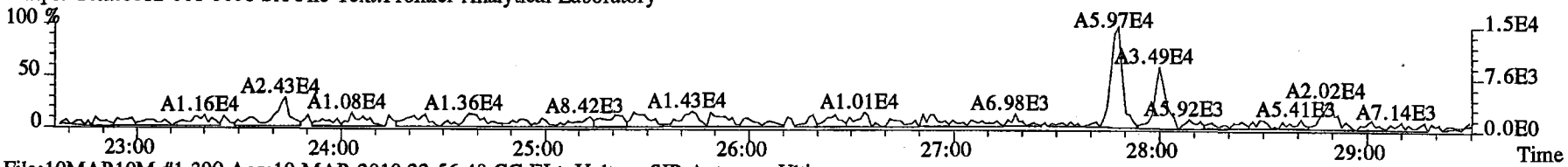
File:10MAR10M #1-347 Acq:10-MAR-2010 22:56:48 GC EI+ Voltage SIR Autospec-Ultima
454.9728 S:11 F:5 Exp:PCDD
Sample Text:6012-001-0001-SA File Text:Frontier Analytical Laboratory



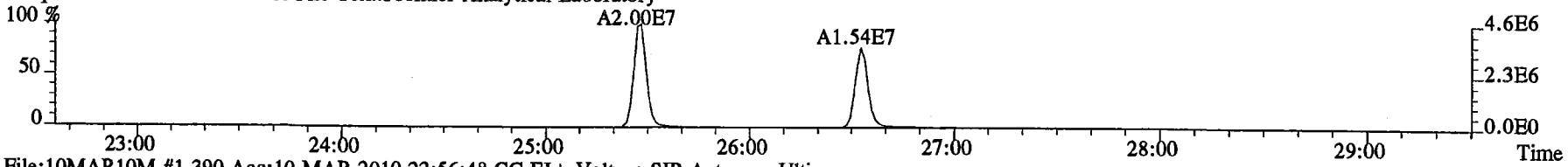
File:10MAR10M #1-390 Acq:10-MAR-2010 22:56:48 GC EI+ Voltage SIR Autospec-Ultima
303.9016 S:11 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-001-0001-SA File Text:Frontier Analytical Laboratory



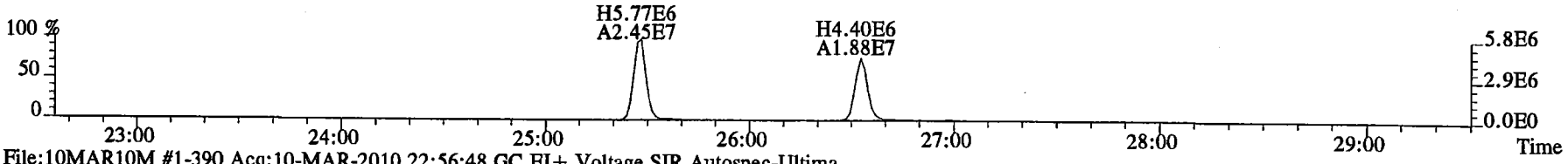
File:10MAR10M #1-390 Acq:10-MAR-2010 22:56:48 GC EI+ Voltage SIR Autospec-Ultima
305.8987 S:11 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-001-0001-SA File Text:Frontier Analytical Laboratory



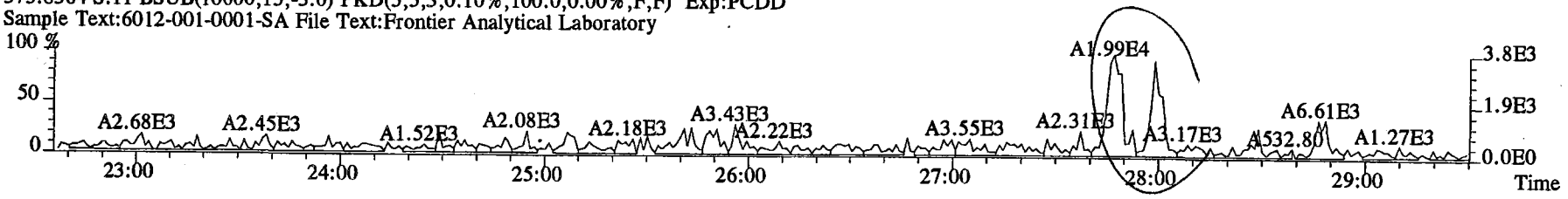
File:10MAR10M #1-390 Acq:10-MAR-2010 22:56:48 GC EI+ Voltage SIR Autospec-Ultima
315.9419 S:11 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-001-0001-SA File Text:Frontier Analytical Laboratory



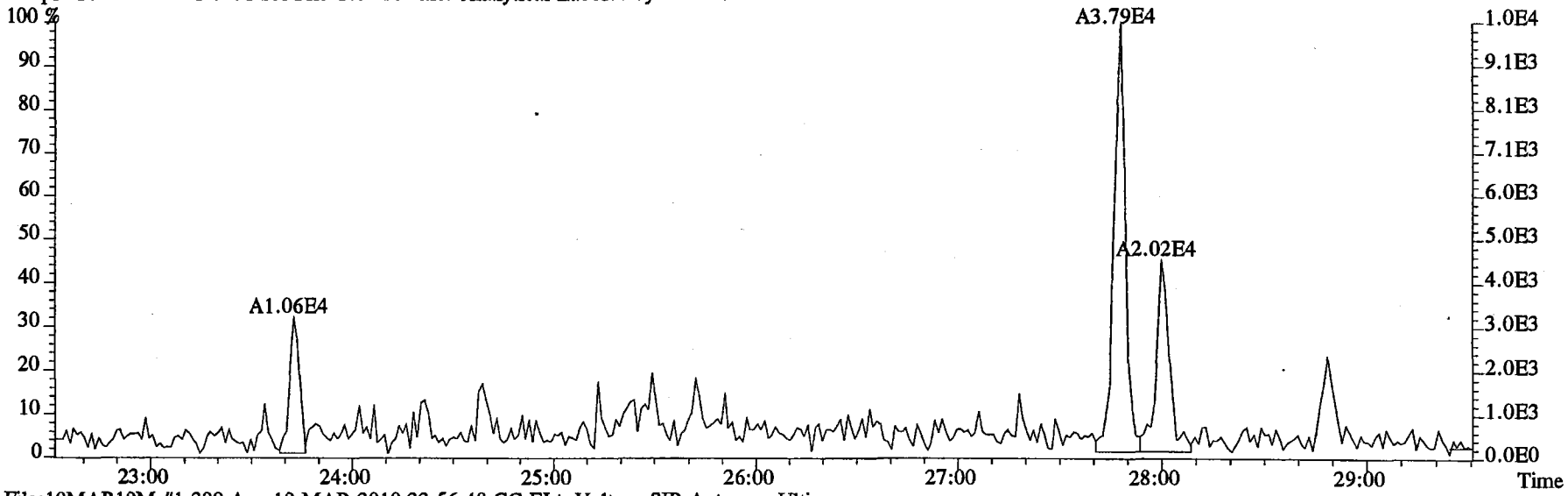
File:10MAR10M #1-390 Acq:10-MAR-2010 22:56:48 GC EI+ Voltage SIR Autospec-Ultima
317.9389 S:11 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-001-0001-SA File Text:Frontier Analytical Laboratory



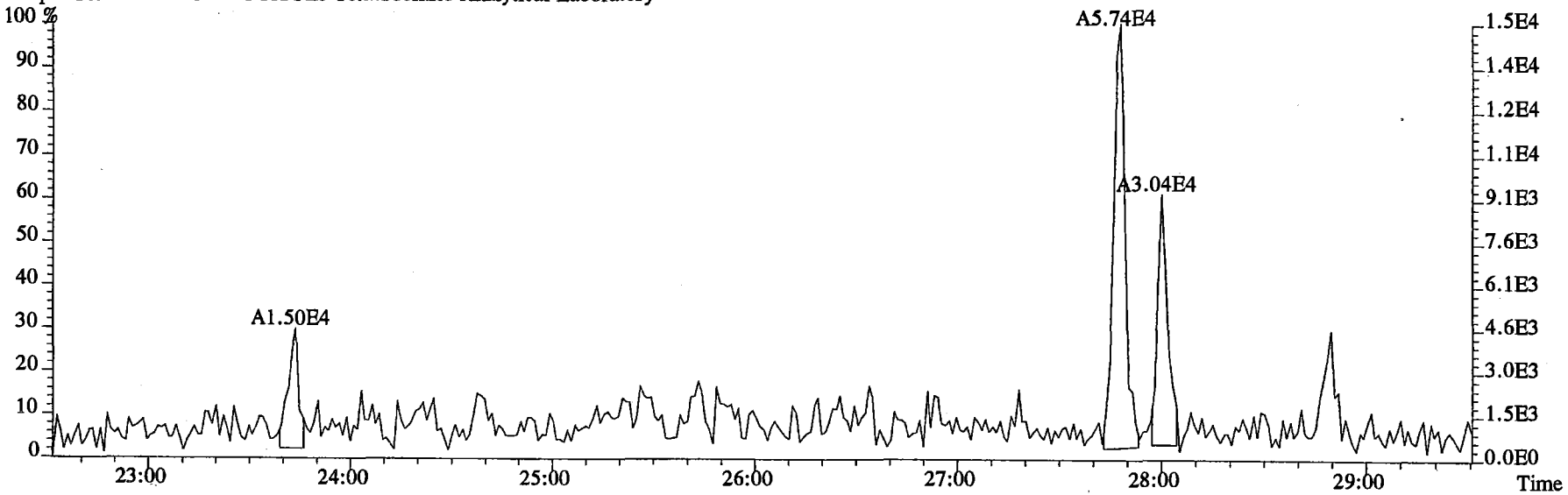
File:10MAR10M #1-390 Acq:10-MAR-2010 22:56:48 GC EI+ Voltage SIR Autospec-Ultima
375.8364 S:11 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-001-0001-SA File Text:Frontier Analytical Laboratory



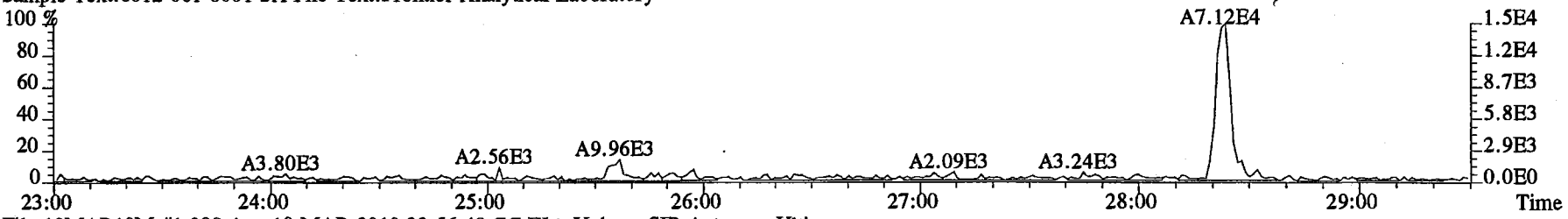
File:10MAR10M #1-390 Acq:10-MAR-2010 22:56:48 GC EI+ Voltage SIR Autospec-Ultima
303.9016 S:11 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-001-0001-SA File Text:Frontier Analytical Laboratory



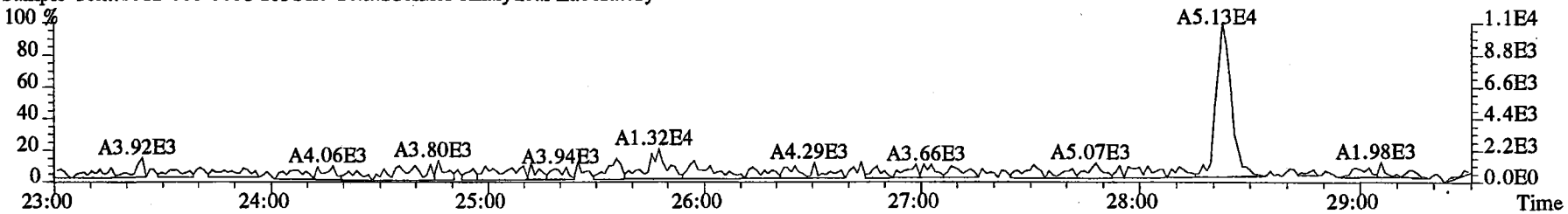
File:10MAR10M #1-390 Acq:10-MAR-2010 22:56:48 GC EI+ Voltage SIR Autospec-Ultima
305.8987 S:11 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-001-0001-SA File Text:Frontier Analytical Laboratory



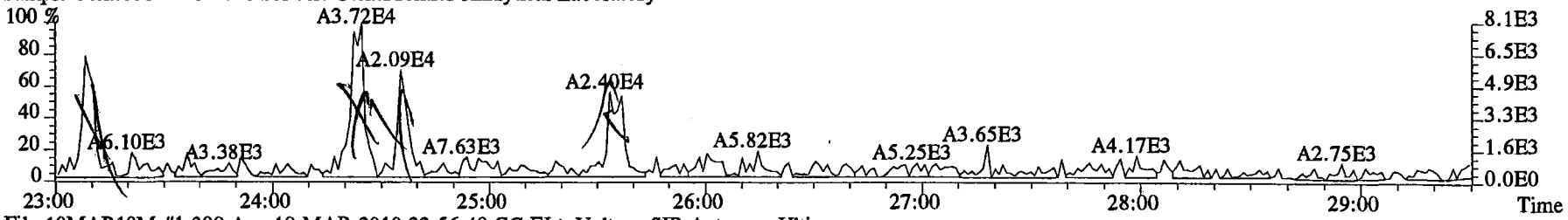
File:10MAR10M #1-390 Acq:10-MAR-2010 22:56:48 GC EI+ Voltage SIR Autospec-Ultima
339.8597 S:11 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-001-0001-SA File Text:Frontier Analytical Laboratory



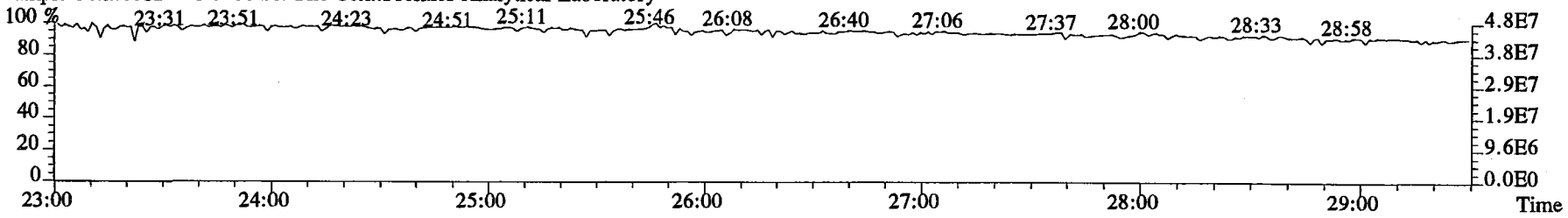
File:10MAR10M #1-390 Acq:10-MAR-2010 22:56:48 GC EI+ Voltage SIR Autospec-Ultima
341.8568 S:11 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-001-0001-SA File Text:Frontier Analytical Laboratory



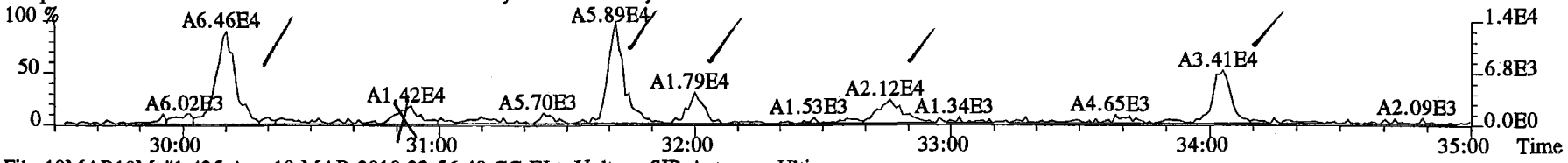
File:10MAR10M #1-390 Acq:10-MAR-2010 22:56:48 GC EI+ Voltage SIR Autospec-Ultima
409.7974 S:11 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-001-0001-SA File Text:Frontier Analytical Laboratory



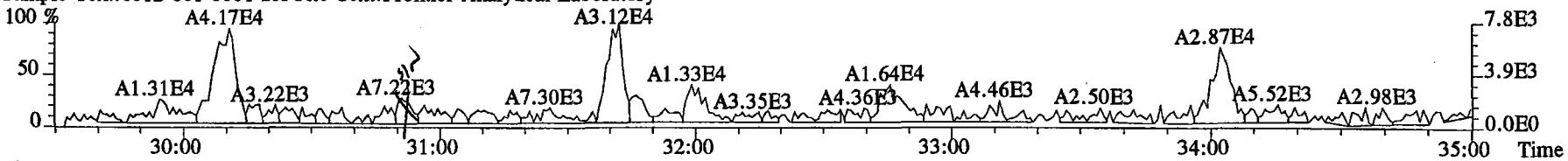
File:10MAR10M #1-390 Acq:10-MAR-2010 22:56:48 GC EI+ Voltage SIR Autospec-Ultima
330.9792 S:11 Exp:PCDD
Sample Text:6012-001-0001-SA File Text:Frontier Analytical Laboratory



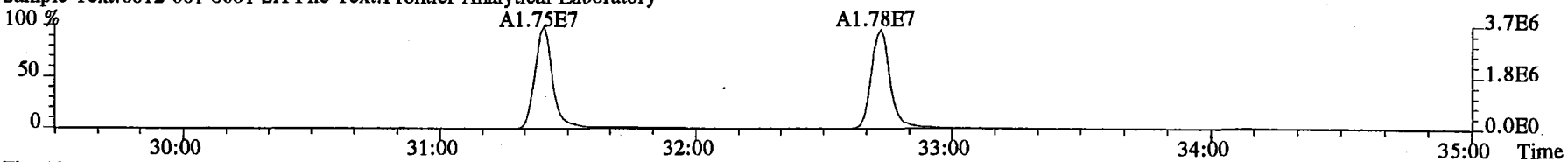
File:10MAR10M #1-425 Acq:10-MAR-2010 22:56:48 GC EI+ Voltage SIR Autospec-Ultima
339.8597 S:11 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-001-0001-SA File Text:Frontier Analytical Laboratory



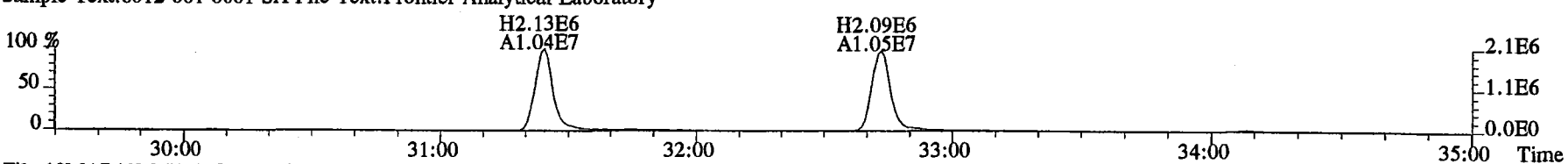
File:10MAR10M #1-425 Acq:10-MAR-2010 22:56:48 GC EI+ Voltage SIR Autospec-Ultima
341.8568 S:11 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-001-0001-SA File Text:Frontier Analytical Laboratory



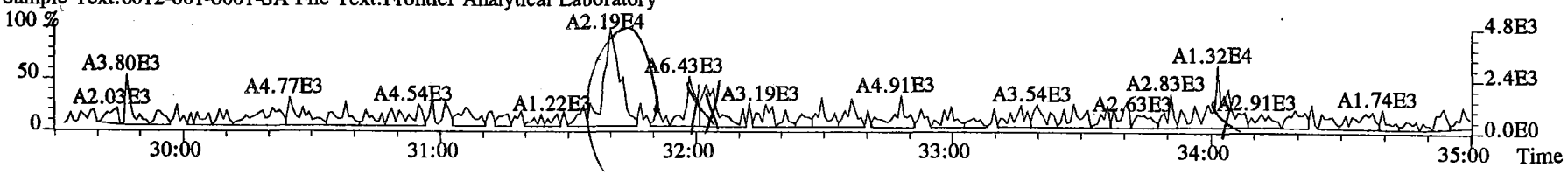
File:10MAR10M #1-425 Acq:10-MAR-2010 22:56:48 GC EI+ Voltage SIR Autospec-Ultima
351.9000 S:11 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-001-0001-SA File Text:Frontier Analytical Laboratory



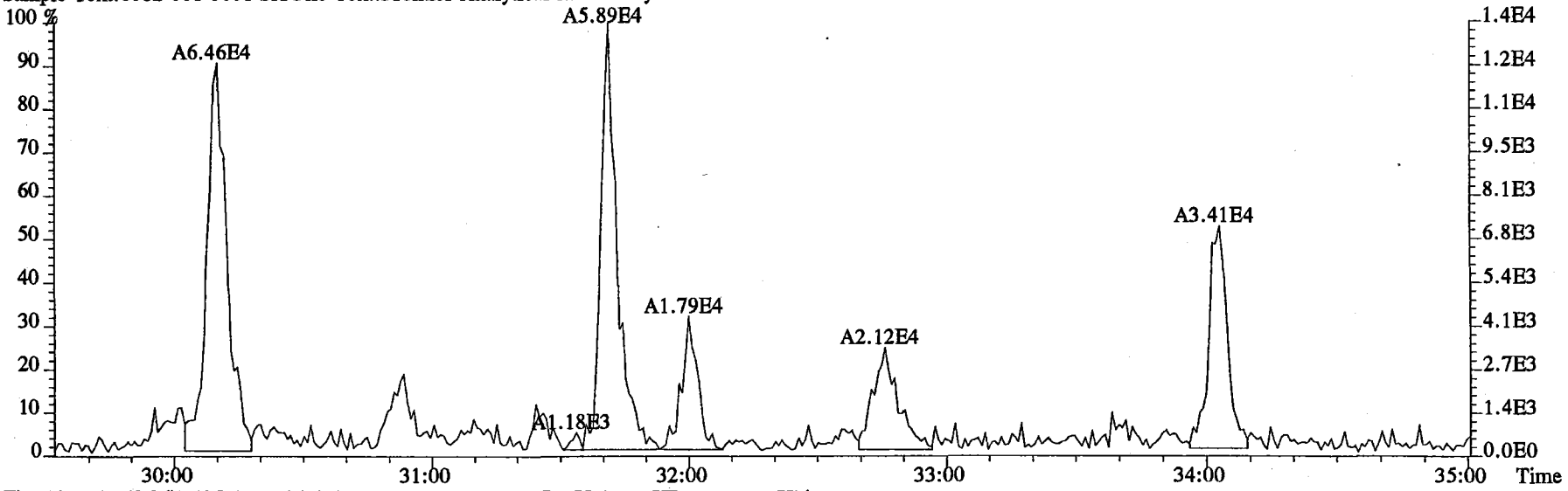
File:10MAR10M #1-425 Acq:10-MAR-2010 22:56:48 GC EI+ Voltage SIR Autospec-Ultima
353.8970 S:11 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-001-0001-SA File Text:Frontier Analytical Laboratory



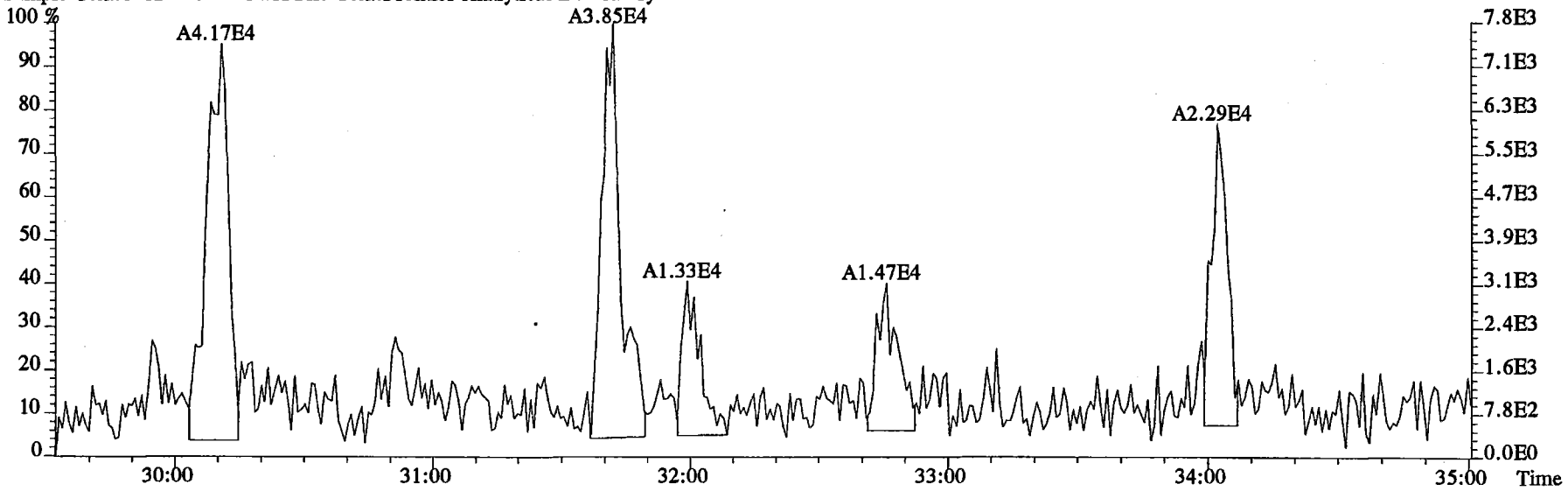
File:10MAR10M #1-425 Acq:10-MAR-2010 22:56:48 GC EI+ Voltage SIR Autospec-Ultima
409.7974 S:11 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-001-0001-SA File Text:Frontier Analytical Laboratory



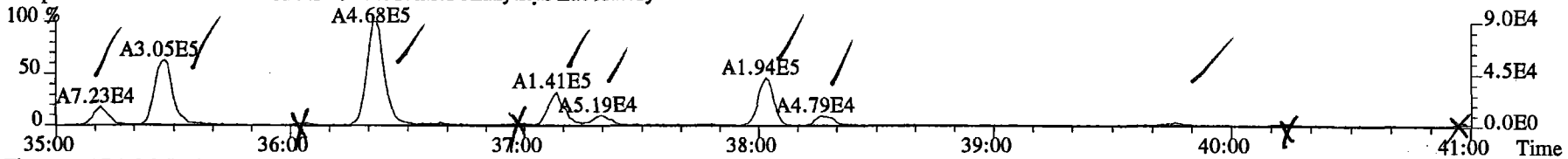
File:10MAR10M #1-425 Acq:10-MAR-2010 22:56:48 GC EI+ Voltage SIR Autospec-Ultima
339.8597 S:11 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-001-0001-SA File Text:Frontier Analytical Laboratory



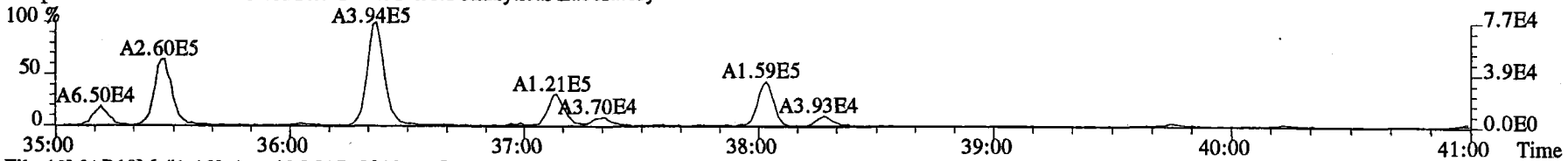
File:10MAR10M #1-425 Acq:10-MAR-2010 22:56:48 GC EI+ Voltage SIR Autospec-Ultima
341.8568 S:11 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-001-0001-SA File Text:Frontier Analytical Laboratory



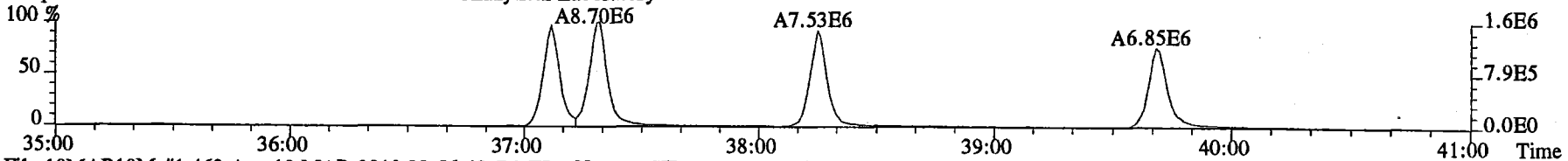
File:10MAR10M #1-463 Acq:10-MAR-2010 22:56:48 GC EI+ Voltage SIR Autospec-Ultima
373.8207 S:11 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-001-0001-SA File Text:Frontier Analytical Laboratory



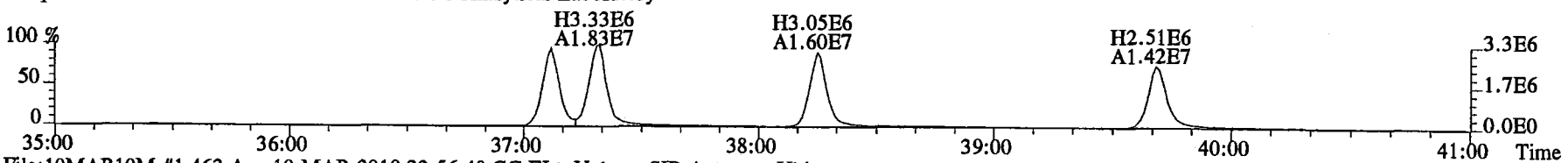
File:10MAR10M #1-463 Acq:10-MAR-2010 22:56:48 GC EI+ Voltage SIR Autospec-Ultima
375.8178 S:11 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-001-0001-SA File Text:Frontier Analytical Laboratory



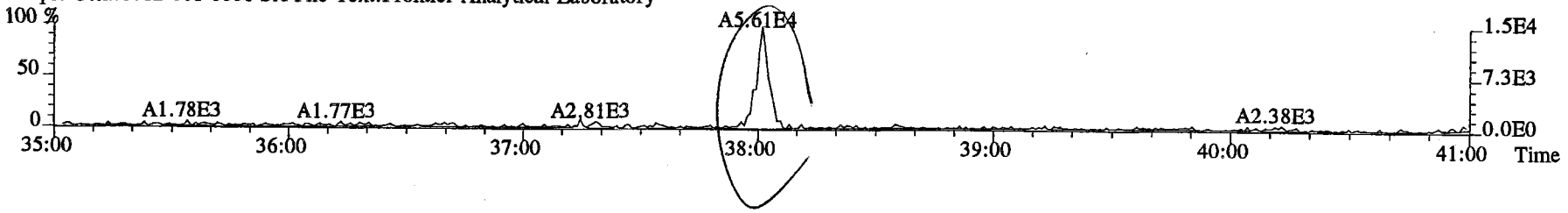
File:10MAR10M #1-463 Acq:10-MAR-2010 22:56:48 GC EI+ Voltage SIR Autospec-Ultima
383.8639 S:11 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-001-0001-SA File Text:Frontier Analytical Laboratory



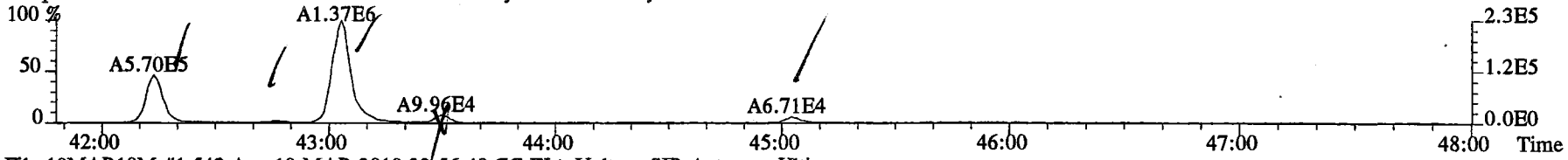
File:10MAR10M #1-463 Acq:10-MAR-2010 22:56:48 GC EI+ Voltage SIR Autospec-Ultima
385.8610 S:11 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-001-0001-SA File Text:Frontier Analytical Laboratory



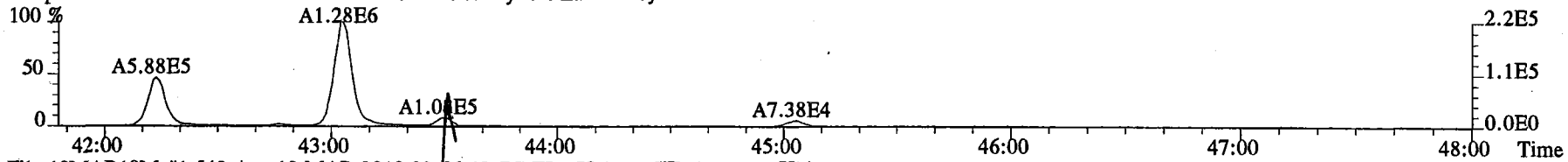
File:10MAR10M #1-463 Acq:10-MAR-2010 22:56:48 GC EI+ Voltage SIR Autospec-Ultima
445.7555 S:11 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-001-0001-SA File Text:Frontier Analytical Laboratory



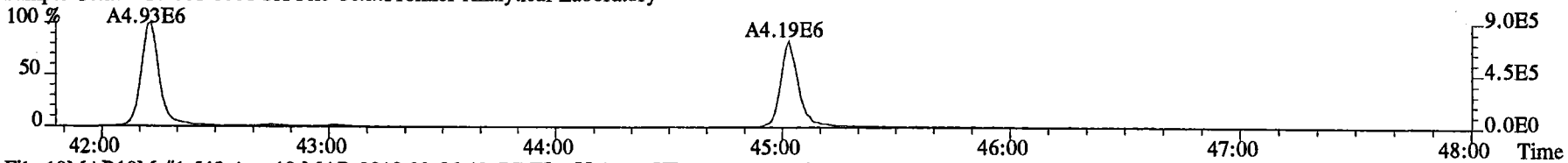
File:10MAR10M #1-542 Acq:10-MAR-2010 22:56:48 GC EI+ Voltage SIR Autospec-Ultima
407.7818 S:11 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-001-0001-SA File Text:Frontier Analytical Laboratory



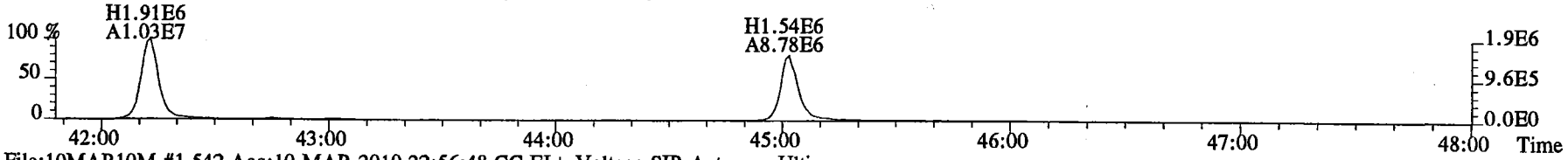
File:10MAR10M #1-542 Acq:10-MAR-2010 22:56:48 GC EI+ Voltage SIR Autospec-Ultima
409.7788 S:11 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-001-0001-SA File Text:Frontier Analytical Laboratory



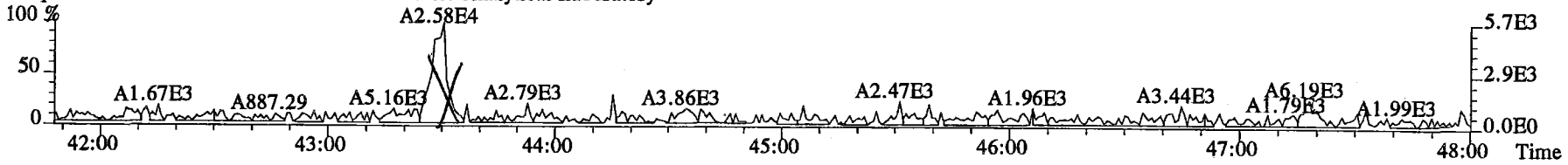
File:10MAR10M #1-542 Acq:10-MAR-2010 22:56:48 GC EI+ Voltage SIR Autospec-Ultima
417.8253 S:11 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-001-0001-SA File Text:Frontier Analytical Laboratory



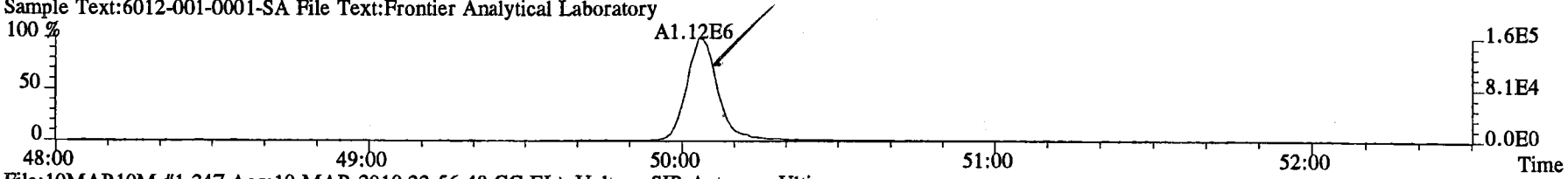
File:10MAR10M #1-542 Acq:10-MAR-2010 22:56:48 GC EI+ Voltage SIR Autospec-Ultima
419.8220 S:11 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-001-0001-SA File Text:Frontier Analytical Laboratory



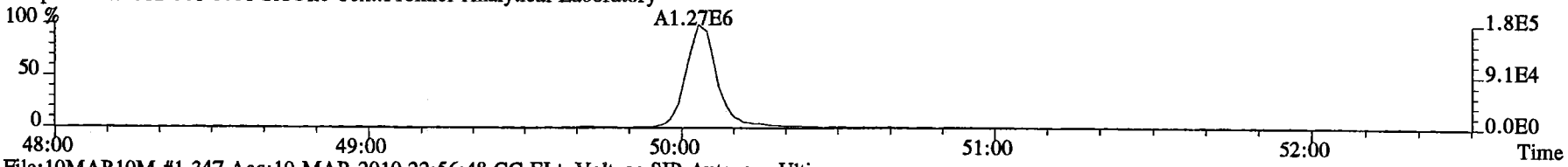
File:10MAR10M #1-542 Acq:10-MAR-2010 22:56:48 GC EI+ Voltage SIR Autospec-Ultima
479.7165 S:11 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-001-0001-SA File Text:Frontier Analytical Laboratory



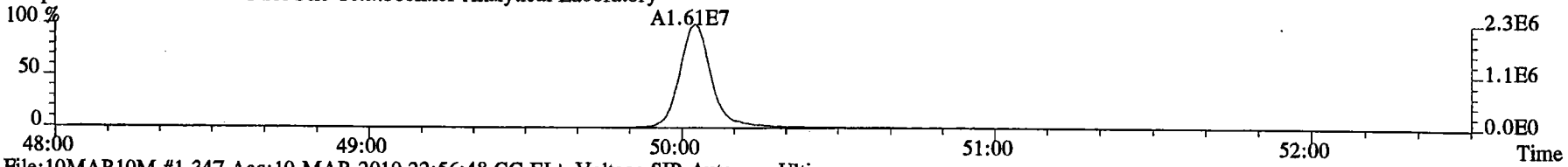
File:10MAR10M #1-347 Acq:10-MAR-2010 22:56:48 GC EI+ Voltage SIR Autospec-Ultima
441.7428 S:11 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-001-0001-SA File Text:Frontier Analytical Laboratory



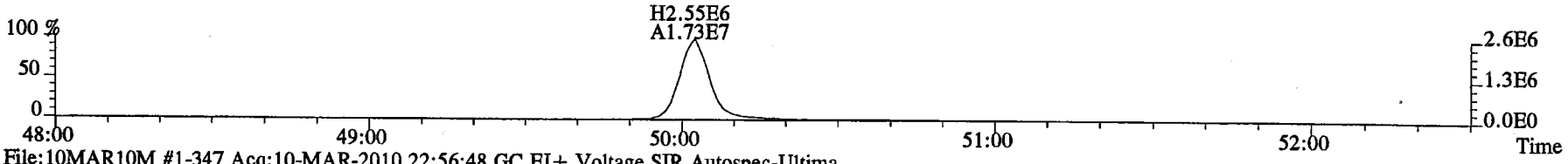
File:10MAR10M #1-347 Acq:10-MAR-2010 22:56:48 GC EI+ Voltage SIR Autospec-Ultima
443.7398 S:11 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-001-0001-SA File Text:Frontier Analytioal Laboratory



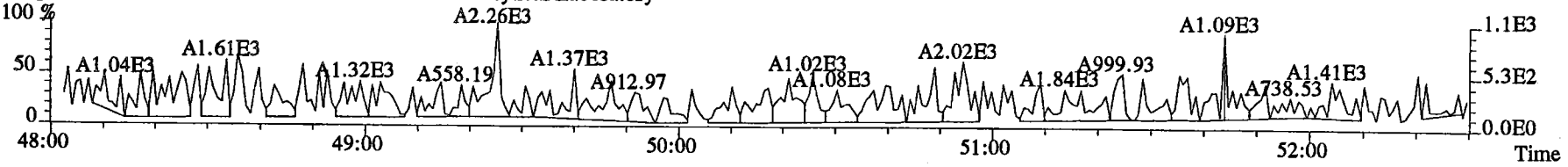
File:10MAR10M #1-347 Acq:10-MAR-2010 22:56:48 GC EI+ Voltage SIR Autospec-Ultima
453.7831 S:11 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-001-0001-SA File Text:Frontier Analytical Laboratory



File:10MAR10M #1-347 Acq:10-MAR-2010 22:56:48 GC EI+ Voltage SIR Autospec-Ultima
455.7801 S:11 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-001-0001-SA File Text:Frontier Analytical Laboratory



File:10MAR10M #1-347 Acq:10-MAR-2010 22:56:48 GC EI+ Voltage SIR Autospec-Ultima
513.6775 S:11 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-001-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 6012-002-0001-SA Filename: 10MAR10M Sam:12 Acquired: 10-MAR-10 23:52:03 ICal: PCDDFAL3-11-18-09
Client ID: CB4857022710COMP ConCal: ST031010M1 EndCal: ST031010M2
Results: 6012 GC Column: DB5 Amount: 1.035 NATO 1989 Tox: 13.0
WHO 1998 Tox: 10.1 WHO 2005 Tox: 10.7

Name	Resp	RA		RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL
2,3,7,8-TCDD	*	*	n	NotFnd	1.02	*		2.50	569	704	1.47
1,2,3,7,8-PeCDD	*	*	n	NotFnd	0.96	*		2.50	858	550	1.99
1,2,3,4,7,8-HxCDD	3.77e+04	1.14	y	38:32	1.37	4.35	J	2.50	-	-	*
1,2,3,6,7,8-HxCDD	9.48e+04	1.12	y	38:41	1.34	11.4	J	2.50	-	-	*
1,2,3,7,8,9-HxCDD	6.93e+04	1.31	y	39:08	1.37	8.11	J	2.50	-	-	*
1,2,3,4,6,7,8-HpCDD	2.61e+06	0.92	y	44:08	1.17	348		2.50	-	-	*
OCDD	1.78e+07	0.93	y	49:41	1.21	3020		2.50	-	-	*
2,3,7,8-TCDF	*	*	n	NotFnd	1.29	*		2.50	490	927	0.760
1,2,3,7,8-PeCDF	*	*	n	NotFnd	0.89	*		2.50	897	933	2.00
2,3,4,7,8-PeCDF	*	*	n	NotFnd	0.91	*		2.50	897	933	1.93
1,2,3,4,7,8-HxCDF	1.72e+05	1.25	y	37:08	1.00	16.0	J	2.50	-	-	*
1,2,3,6,7,8-HxCDF	7.46e+04	1.29	y	37:20	0.92	6.46	J	2.50	-	-	*
2,3,4,6,7,8-HxCDF	5.96e+04	1.18	y	38:17	0.99	5.55	J	2.50	-	-	*
1,2,3,7,8,9-HxCDF	1.99e+04	1.29	y	39:46	1.09	1.87	J	2.50	-	-	*
1,2,3,4,6,7,8-HpCDF	8.06e+05	1.01	y	42:14	1.36	80.6		2.50	-	-	*
1,2,3,4,7,8,9-HpCDF	9.08e+04	0.89	y	45:02	1.61	9.26	J	2.50	-	-	*
OCDF	1.58e+06	0.89	y	50:03	0.84	234		2.50	-	-	*
											Rec
13C-2,3,7,8-TCDD	1.81e+07	0.73	y	27:19	0.94	1640					84.7
13C-1,2,3,7,8-PeCDD	1.76e+07	1.62	y	33:08	1.02	1470					76.2
13C-1,2,3,4,7,8-HxCDD	1.22e+07	1.32	y	38:30	0.98	1550					80.4
13C-1,2,3,6,7,8-HxCDD	1.20e+07	1.32	y	38:40	0.94	1600					82.8
13C-1,2,3,4,6,7,8-HpCDD	1.24e+07	1.06	y	44:07	0.90	1730					89.6
13C-OCDD	1.88e+07	0.96	y	49:40	0.67	3530					91.3
13C-2,3,7,8-TCDF	3.02e+07	0.82	y	26:33	0.88	1650					85.5
13C-1,2,3,7,8-PeCDF	2.44e+07	1.70	y	31:24	0.88	1340					69.2
13C-2,3,4,7,8-PeCDF	2.48e+07	1.65	y	32:43	0.85	1400					72.5
13C-1,2,3,4,7,8-HxCDF	2.08e+07	0.48	y	37:07	1.72	1520					78.5
13C-1,2,3,6,7,8-HxCDF	2.44e+07	0.48	y	37:19	2.00	1520					78.9
13C-2,3,4,6,7,8-HxCDF	2.10e+07	0.49	y	38:15	1.74	1520					78.6
13C-1,2,3,7,8,9-HxCDF	1.89e+07	0.48	y	39:41	1.51	1570					81.3
13C-1,2,3,4,6,7,8-HpCDF	1.42e+07	0.47	y	42:13	1.10	1620					83.9
13C-1,2,3,4,7,8,9-HpCDF	1.18e+07	0.48	y	45:02	0.85	1750					90.4
13C-OCDF	3.09e+07	0.93	y	50:02	1.17	3300					85.5
37Cl-2,3,7,8-TCDD	8.18e+06			27:20	0.97	714					92.4
13C-1,2,3,4-TCDD	2.27e+07	0.73	y	26:44	-	83.9					
13C-1,2,3,4-TCDF	4.03e+07	0.82	y	25:28	-	84.2					
13C-1,2,3,7,8,9-HxCDD	1.54e+07	1.31	y	39:08	-	72.6					

						Fac	Noise-1	Noise-2	DL		#Hom
Total Tetra-Dioxins	*			NotFnd	1.02	*		2.50	569	704	1.47		0
Total Penta-Dioxins	*			NotFnd	0.96	*		2.50	858	550	1.99		0
Total Hexa-Dioxins	5.17e+05			36:05	1.36	60.9		2.50	-	-	*		6
Total Hepta-Dioxins	4.43e+06			42:45	1.17	591		2.50	-	-	*		2
Total Tetra-Furans	2.03e+05			27:48	1.29	10.1	D,M	2.50	-	-	*		2
1st Fn. Tot Penta-Furans	9.25e+04			28:24	0.90	8.09	D,M	2.50	-	-	*	PeCDF	1
Total Penta-Furans	3.60e+05			30:10	0.90	31.5	D,M	2.50	-	-	*	39.6	4
Total Hexa-Furans	1.89e+06			35:11	0.99	173	D,M	2.50	-	-	*		8
Total Hepta-Furans	2.64e+06			42:14	1.47	266		2.50	-	-	*		4

Analyst: _____ Date: 3/11/10

Totals class: Total Hexa-Dioxins Entry #: 40

Run: 18 File: 10MAR10M S: 12 I: 1 F: 3
Acquired: 10-MAR-10 23:52:03

Total Concentration: 60.9 Unnamed Concentration: 37.036

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
36:05	4.74e+04	3.95e+04	1.20 y	8.69e+04	10.2	
37:01	1.78e+04	1.36e+04	1.31 y	3.14e+04	3.69	
37:25	1.13e+05	8.37e+04	1.35 y	1.97e+05	23.1	
38:32	2.01e+04	1.77e+04	1.14 y	3.77e+04	4.35	1,2,3,4,7,8-HxCDD
38:41	5.00e+04	4.48e+04	1.12 y	9.48e+04	11.4	1,2,3,6,7,8-HxCDD
39:08	3.93e+04	3.00e+04	1.31 y	6.93e+04	8.11	1,2,3,7,8,9-HxCDD

Totals class: Total Hepta-Dioxins Entry #: 41

Run: 18 File: 10MAR10M S: 12 I: 1 F: 4
Acquired: 10-MAR-10 23:52:03

Total Concentration: 591 Unnamed Concentration: 242.867

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
42:45	8.75e+05	9.46e+05	0.93 y	1.82e+06	243	
44:08	1.25e+06	1.36e+06	0.92 y	2.61e+06	348	1,2,3,4,6,7,8-HpCDD

Totals class: Total Tetra-Furans Entry #: 42

Run: 18 File: 10MAR10M S: 12 I: 1 F: 1
Acquired: 10-MAR-10 23:52:03

Total Concentration: 10.1 Unnamed Concentration: 10.123

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
27:48	5.72e+04	7.74e+04	0.74 y	1.35e+05	6.70	
28:01	2.76e+04	4.12e+04	0.67 y	6.88e+04	3.42	

Totals class: 1st Fn. Tot Penta-Furans Entry #: 43

Run: 18 File: 10MAR10M S: 12 I: 1 F: 1
Acquired: 10-MAR-10 23:52:03

Total Concentration: 8.09 Unnamed Concentration: 8.093

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
28:24	5.40e+04	3.85e+04	1.40 y	9.25e+04	8.09	

Totals class: Total Penta-Furans Entry #: 44

Run: 18 File: 10MAR10M S: 12 I: 1 F: 2
Acquired: 10-MAR-10 23:52:03

Total Concentration: 31.5 Unnamed Concentration: 31.499

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
30:10	4.72e+04	3.18e+04	1.48 y	7.91e+04	6.92	
31:41	9.18e+04	6.48e+04	1.42 y	1.57e+05	13.7	
32:01	3.47e+04	2.58e+04	1.35 y	6.05e+04	5.29	
34:03	3.68e+04	2.70e+04	1.36 y	6.38e+04	5.59	

Totals class: Total Hexa-Furans Entry #: 45

Run: 18 File: 10MAR10M S: 12 I: 1 F: 3
Acquired: 10-MAR-10 23:52:03

Total Concentration: 173 Unnamed Concentration: 143.294

RT	m1 Resp	m2 Resp	RA		Resp	Concentration	Name
35:11	4.89e+04	4.23e+04	1.16	y	9.12e+04	8.37	
35:28	2.00e+05	1.61e+05	1.24	y	3.61e+05	33.1	
36:22	2.95e+05	2.46e+05	1.20	y	5.41e+05	49.6	
37:08	9.54e+04	7.62e+04	1.25	y	1.72e+05	16.0	1,2,3,4,7,8-HxCDF
37:20	4.20e+04	3.26e+04	1.29	y	7.46e+04	6.46	1,2,3,6,7,8-HxCDF
38:02	3.11e+05	2.58e+05	1.21	y	5.69e+05	52.2	
38:17	3.22e+04	2.74e+04	1.18	y	5.96e+04	5.55	2,3,4,6,7,8-HxCDF
39:46	1.12e+04	8.68e+03	1.29	y	1.99e+04	1.87	1,2,3,7,8,9-HxCDF

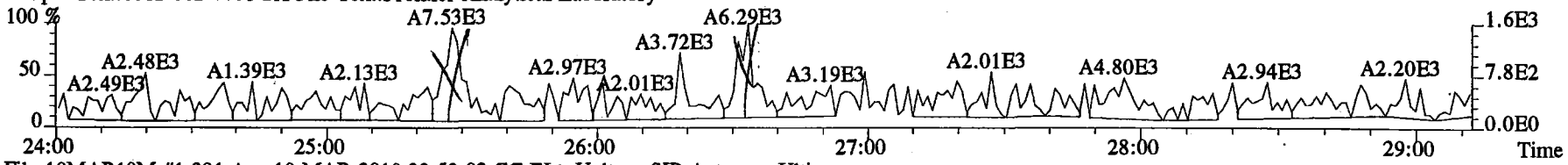
Totals class: Total Hepta-Furans Entry #: 46

Run: 18 File: 10MAR10M S: 12 I: 1 F: 4
Acquired: 10-MAR-10 23:52:03

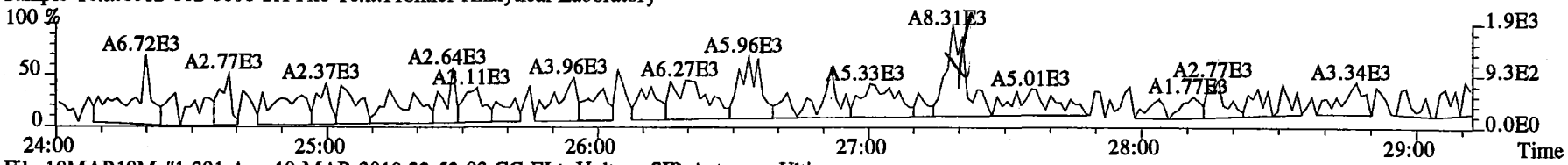
Total Concentration: 266 Unnamed Concentration: 176.343

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
42:14	4.04e+05	4.02e+05	1.01 y	8.06e+05	80.6	1,2,3,4,6,7,8-HpCDF
42:47	1.68e+04	1.59e+04	1.05 y	3.27e+04	3.32	
43:03	8.91e+05	8.17e+05	1.09 y	1.71e+06	173	
45:02	4.28e+04	4.81e+04	0.89 y	9.08e+04	9.26	1,2,3,4,7,8,9-HpCDF

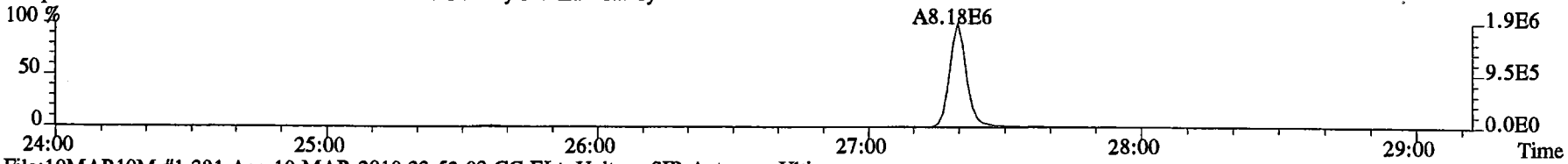
File:10MAR10M #1-391 Acq:10-MAR-2010 23:52:03 GC EI+ Voltage SIR Autospec-Ultima
319.8965 S:12 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-002-0001-SA File Text:Frontier Analytical Laboratory



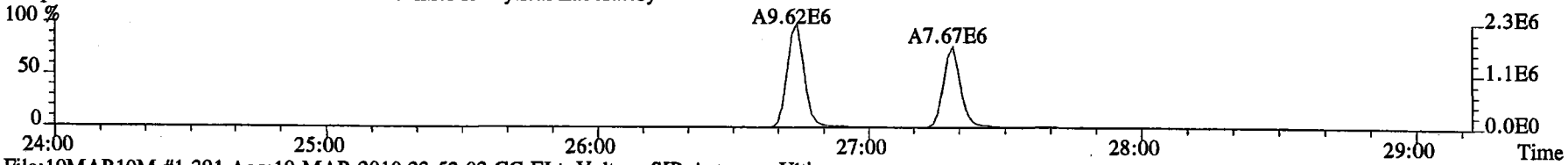
File:10MAR10M #1-391 Acq:10-MAR-2010 23:52:03 GC EI+ Voltage SIR Autospec-Ultima
321.8936 S:12 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-002-0001-SA File Text:Frontier Analytical Laboratory



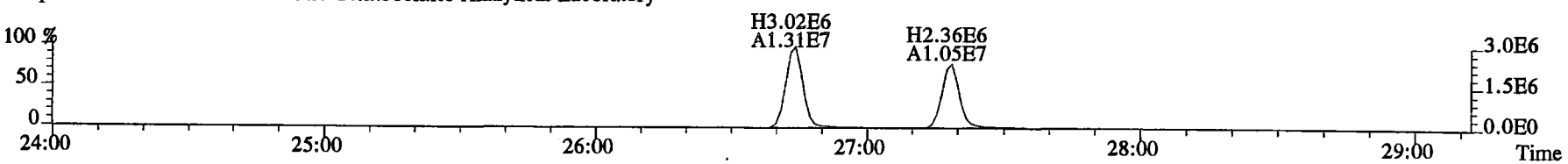
File:10MAR10M #1-391 Acq:10-MAR-2010 23:52:03 GC EI+ Voltage SIR Autospec-Ultima
327.8847 S:12 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-002-0001-SA File Text:Frontier Analytical Laboratory



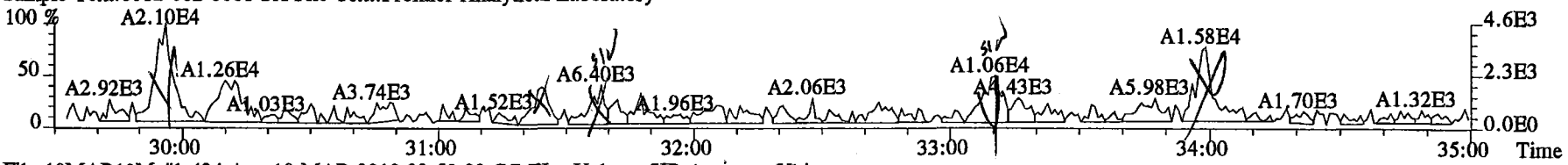
File:10MAR10M #1-391 Acq:10-MAR-2010 23:52:03 GC EI+ Voltage SIR Autospec-Ultima
331.9368 S:12 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-002-0001-SA File Text:Frontier Analytical Laboratory



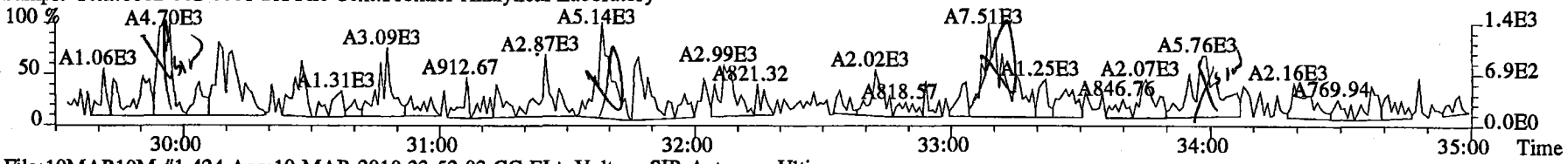
File:10MAR10M #1-391 Acq:10-MAR-2010 23:52:03 GC EI+ Voltage SIR Autospec-Ultima
333.9339 S:12 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-002-0001-SA File Text:Frontier Analytical Laboratory



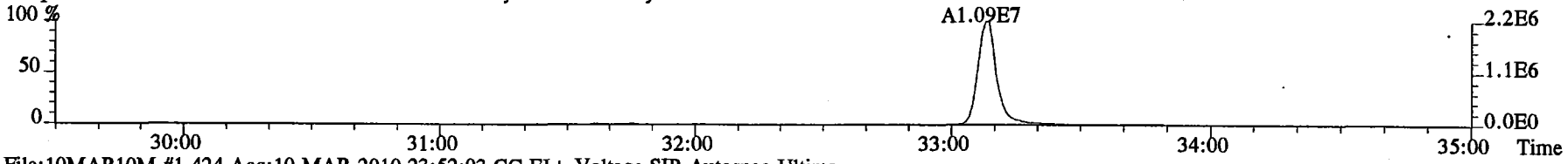
File:10MAR10M #1-424 Acq:10-MAR-2010 23:52:03 GC EI+ Voltage SIR Autospec-Ultima
355.8546 S:12 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-002-0001-SA File Text:Frontier Analytical Laboratory



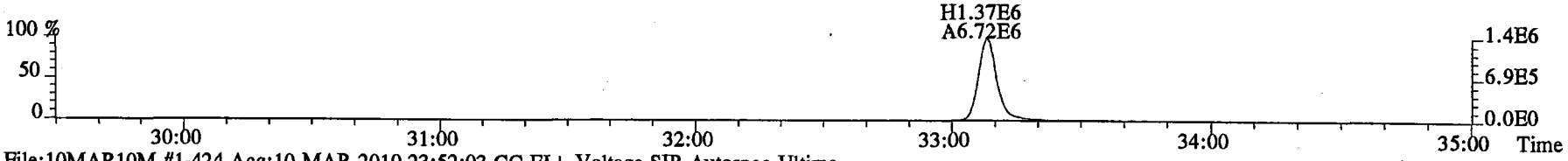
File:10MAR10M #1-424 Acq:10-MAR-2010 23:52:03 GC EI+ Voltage SIR Autospec-Ultima
357.8517 S:12 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-002-0001-SA File Text:Frontier Analytical Laboratory



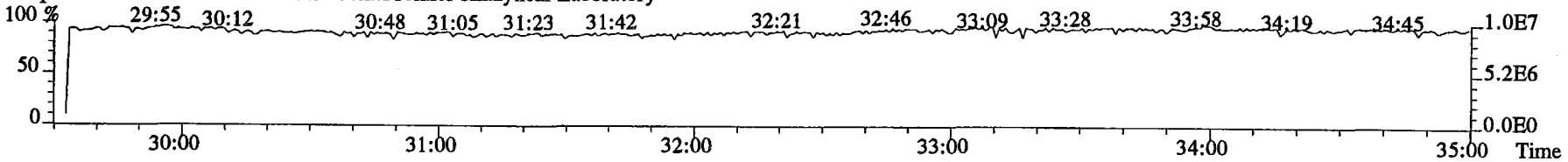
File:10MAR10M #1-424 Acq:10-MAR-2010 23:52:03 GC EI+ Voltage SIR Autospec-Ultima
367.8949 S:12 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-002-0001-SA File Text:Frontier Analytical Laboratory



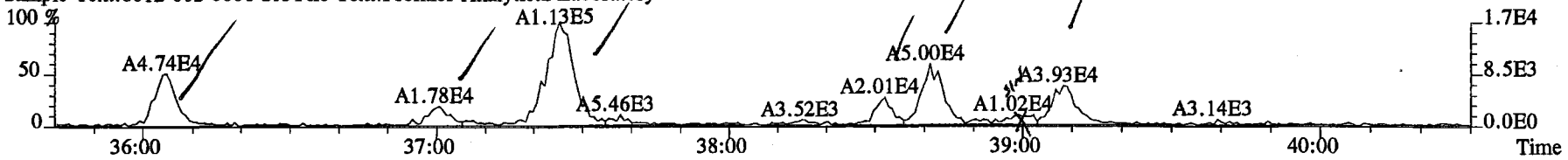
File:10MAR10M #1-424 Acq:10-MAR-2010 23:52:03 GC EI+ Voltage SIR Autospec-Ultima
369.8919 S:12 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-002-0001-SA File Text:Frontier Analytical Laboratory



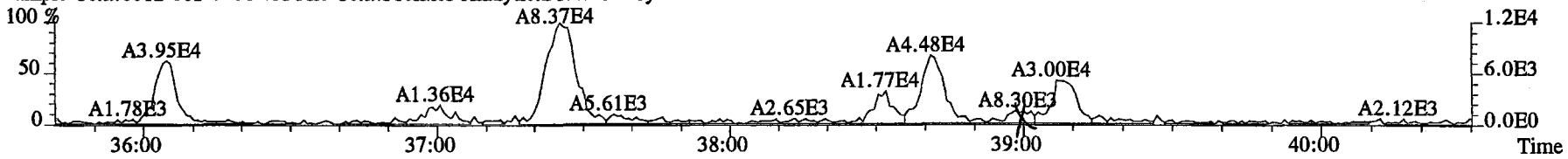
File:10MAR10M #1-424 Acq:10-MAR-2010 23:52:03 GC EI+ Voltage SIR Autospec-Ultima
366.9792 S:12 F:2 Exp:PCDD
Sample Text:6012-002-0001-SA File Text:Frontier Analytical Laboratory



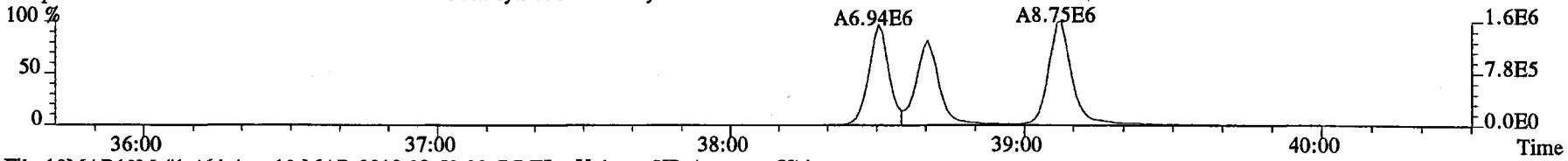
File:10MAR10M #1-464 Acq:10-MAR-2010 23:52:03 GC EI+ Voltage SIR Autospec-Ultima
389.8156 S:12 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-002-0001-SA File Text:Frontier Analytical Laboratory



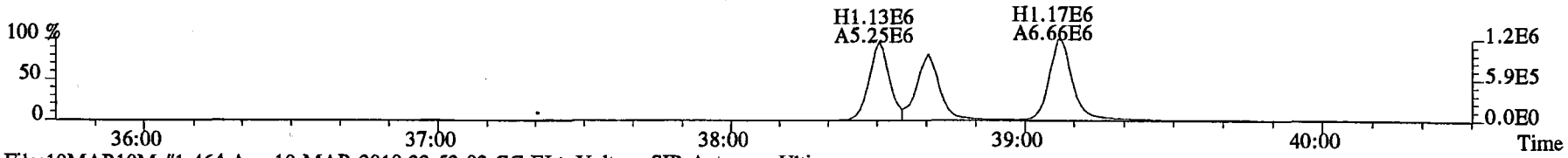
File:10MAR10M #1-464 Acq:10-MAR-2010 23:52:03 GC EI+ Voltage SIR Autospec-Ultima
391.8127 S:12 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-002-0001-SA File Text:Frontier Analytical Laboratory



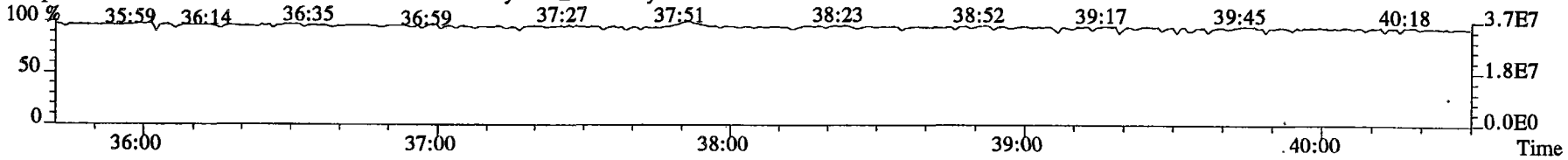
File:10MAR10M #1-464 Acq:10-MAR-2010 23:52:03 GC EI+ Voltage SIR Autospec-Ultima
401.8559 S:12 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-002-0001-SA File Text:Frontier Analytical Laboratory



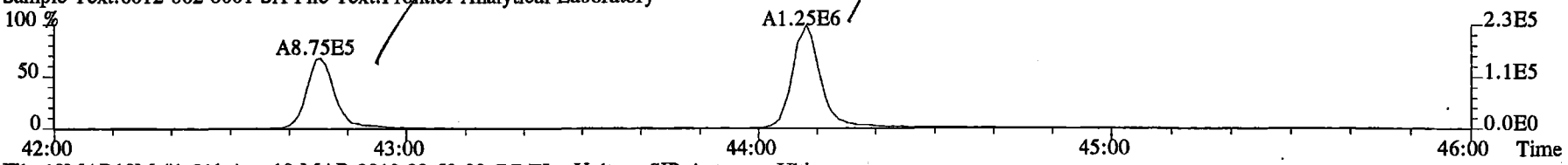
File:10MAR10M #1-464 Acq:10-MAR-2010 23:52:03 GC EI+ Voltage SIR Autospec-Ultima
403.8530 S:12 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-002-0001-SA File Text:Frontier Analytical Laboratory



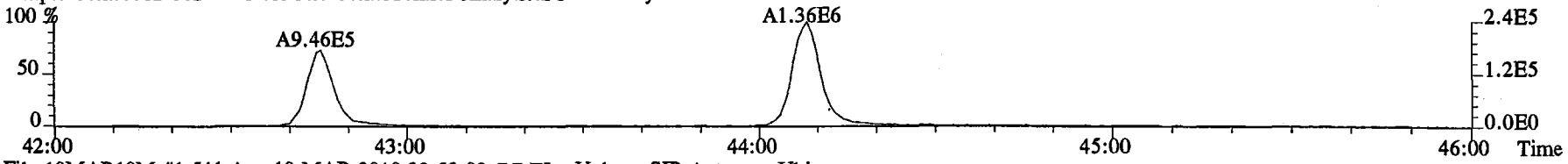
File:10MAR10M #1-464 Acq:10-MAR-2010 23:52:03 GC EI+ Voltage SIR Autospec-Ultima
380.9760 S:12 F:3 Exp:PCDD
Sample Text:6012-002-0001-SA File Text:Frontier Analytical Laboratory



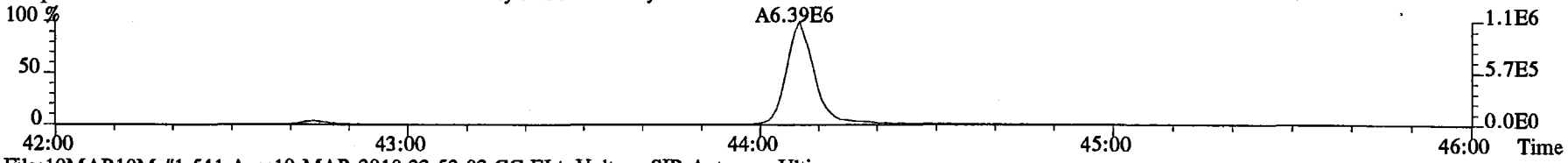
File:10MAR10M #1-541 Acq:10-MAR-2010 23:52:03 GC EI+ Voltage SIR Autospec-Ultima
423.7767 S:12 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-002-0001-SA File Text:Frontier Analytical Laboratory



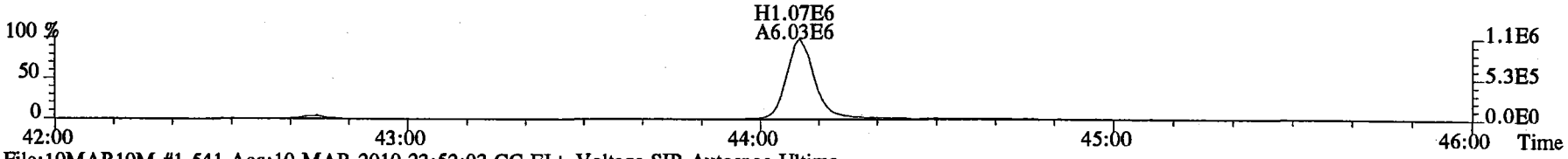
File:10MAR10M #1-541 Acq:10-MAR-2010 23:52:03 GC EI+ Voltage SIR Autospec-Ultima
425.7737 S:12 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-002-0001-SA File Text:Frontier Analytical Laboratory



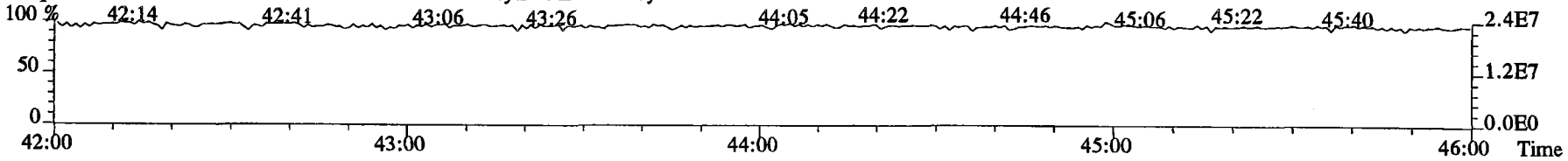
File:10MAR10M #1-541 Acq:10-MAR-2010 23:52:03 GC EI+ Voltage SIR Autospec-Ultima
435.8169 S:12 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-002-0001-SA File Text:Frontier Analytical Laboratory



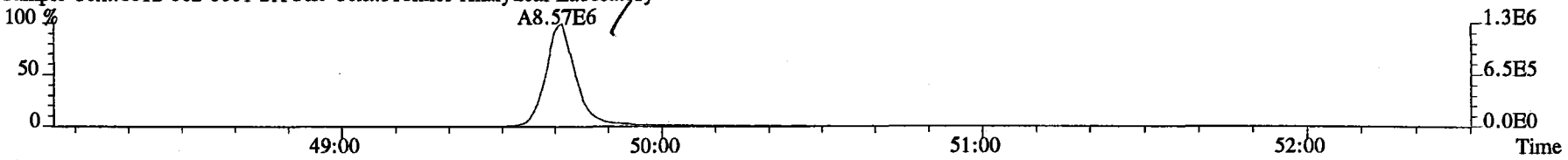
File:10MAR10M #1-541 Acq:10-MAR-2010 23:52:03 GC EI+ Voltage SIR Autospec-Ultima
437.8140 S:12 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-002-0001-SA File Text:Frontier Analytical Laboratory



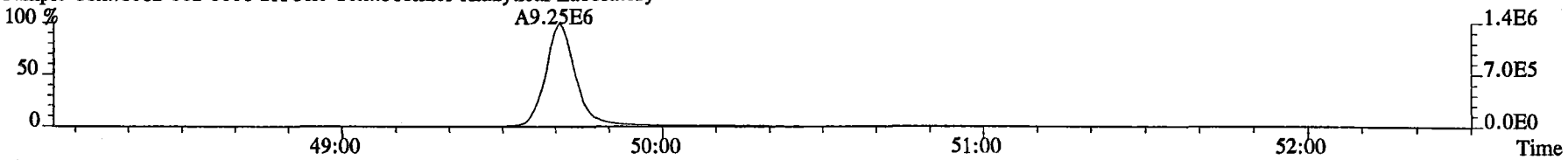
File:10MAR10M #1-541 Acq:10-MAR-2010 23:52:03 GC EI+ Voltage SIR Autospec-Ultima
430.9728 S:12 F:4 Exp:PCDD
Sample Text:6012-002-0001-SA File Text:Frontier Analytical Laboratory



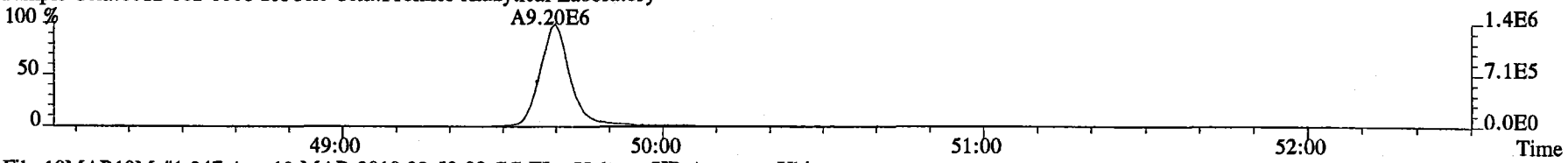
File:10MAR10M #1-347 Acq:10-MAR-2010 23:52:03 GC EI+ Voltage SIR Autospec-Ultima
457.7377 S:12 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-002-0001-SA File Text:Frontier Analytical Laboratory



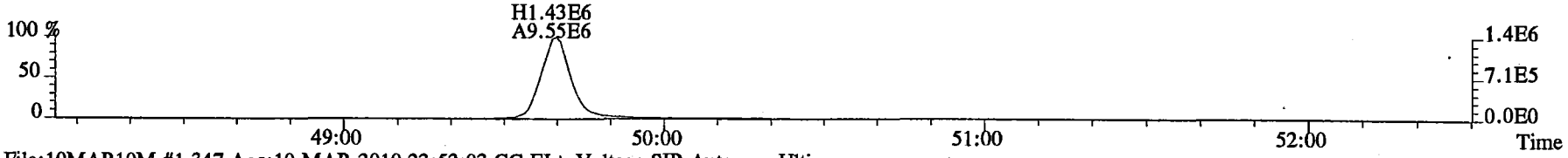
File:10MAR10M #1-347 Acq:10-MAR-2010 23:52:03 GC EI+ Voltage SIR Autospec-Ultima
459.7348 S:12 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-002-0001-SA File Text:Frontier Analytical Laboratory



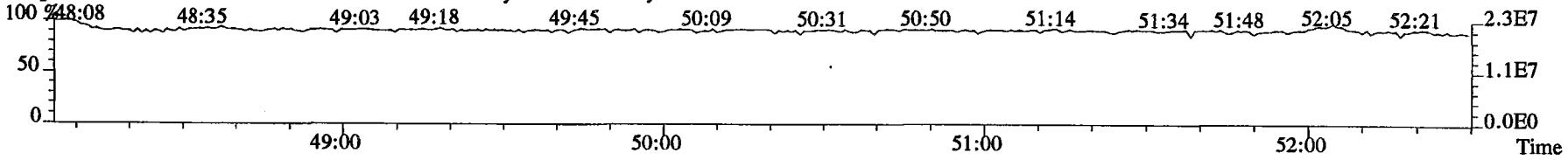
File:10MAR10M #1-347 Acq:10-MAR-2010 23:52:03 GC EI+ Voltage SIR Autospec-Ultima
469.7780 S:12 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-002-0001-SA File Text:Frontier Analytical Laboratory



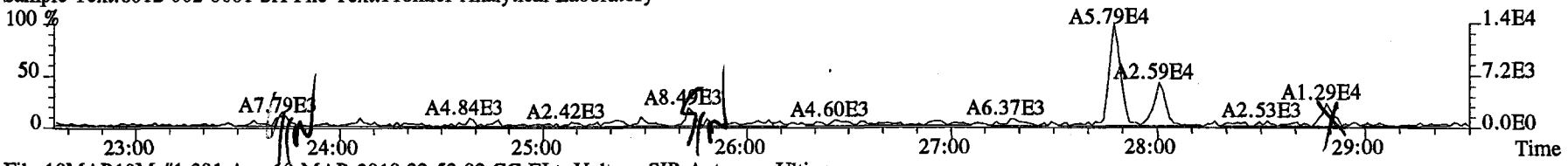
File:10MAR10M #1-347 Acq:10-MAR-2010 23:52:03 GC EI+ Voltage SIR Autospec-Ultima
471.7750 S:12 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-002-0001-SA File Text:Frontier Analytical Laboratory



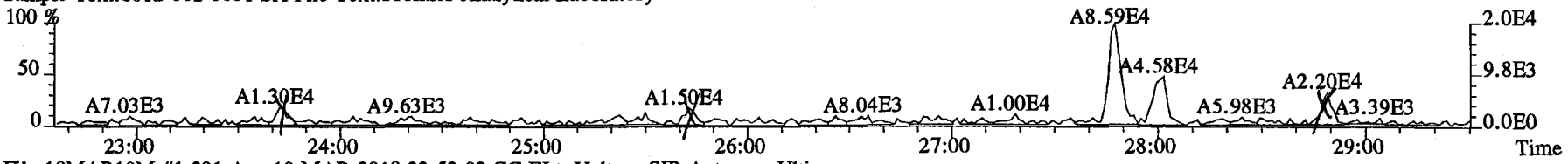
File:10MAR10M #1-347 Acq:10-MAR-2010 23:52:03 GC EI+ Voltage SIR Autospec-Ultima
454.9728 S:12 F:5 Exp:PCDD
Sample Text:6012-002-0001-SA File Text:Frontier Analytical Laboratory



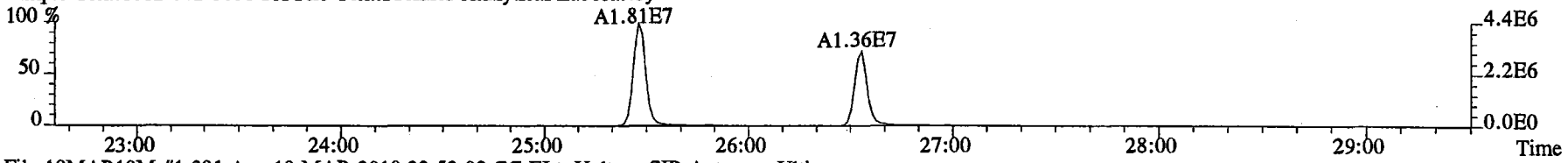
File:10MAR10M #1-391 Acq:10-MAR-2010 23:52:03 GC EI+ Voltage SIR Autospec-Ultima
303.9016 S:12 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-002-0001-SA File Text:Frontier Analytical Laboratory



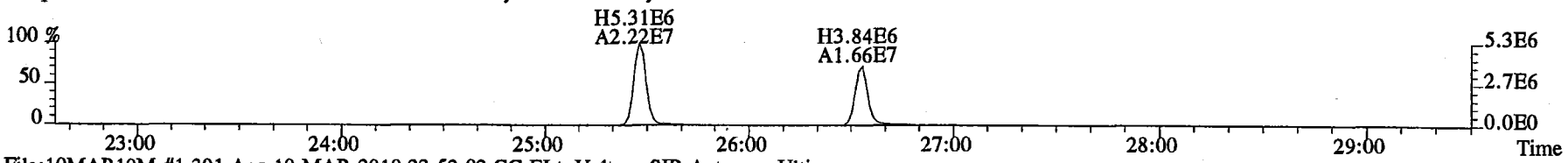
File:10MAR10M #1-391 Acq:10-MAR-2010 23:52:03 GC EI+ Voltage SIR Autospec-Ultima
305.8987 S:12 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-002-0001-SA File Text:Frontier Analytical Laboratory



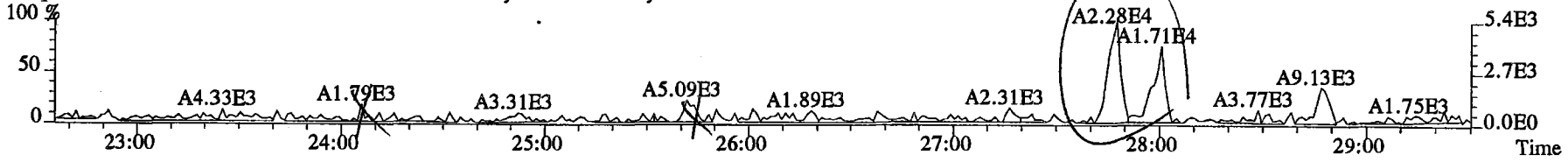
File:10MAR10M #1-391 Acq:10-MAR-2010 23:52:03 GC EI+ Voltage SIR Autospec-Ultima
315.9419 S:12 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-002-0001-SA File Text:Frontier Analytical Laboratory



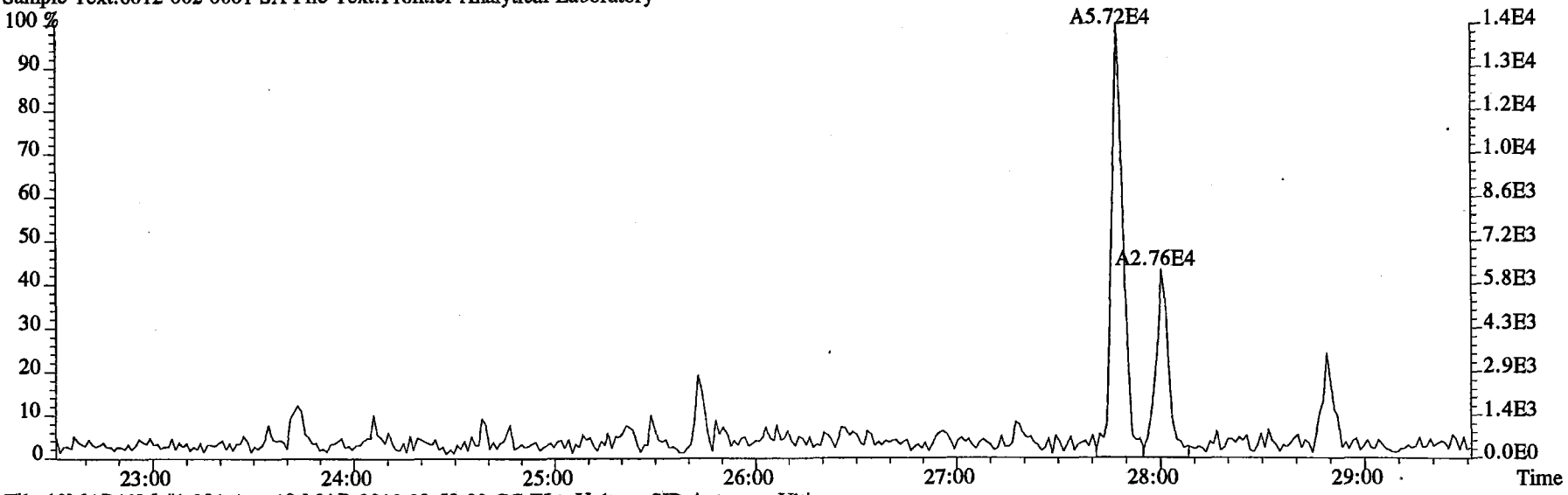
File:10MAR10M #1-391 Acq:10-MAR-2010 23:52:03 GC EI+ Voltage SIR Autospec-Ultima
317.9389 S:12 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-002-0001-SA File Text:Frontier Analytical Laboratory



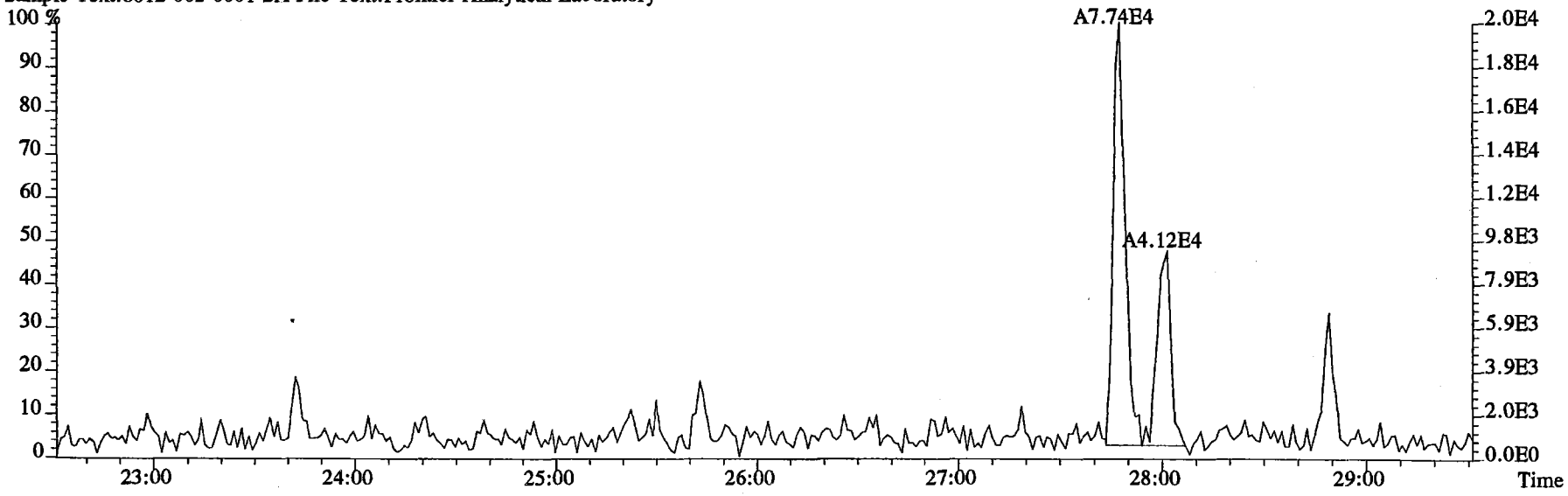
File:10MAR10M #1-391 Acq:10-MAR-2010 23:52:03 GC EI+ Voltage SIR Autospec-Ultima
375.8364 S:12 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-002-0001-SA File Text:Frontier Analytical Laboratory



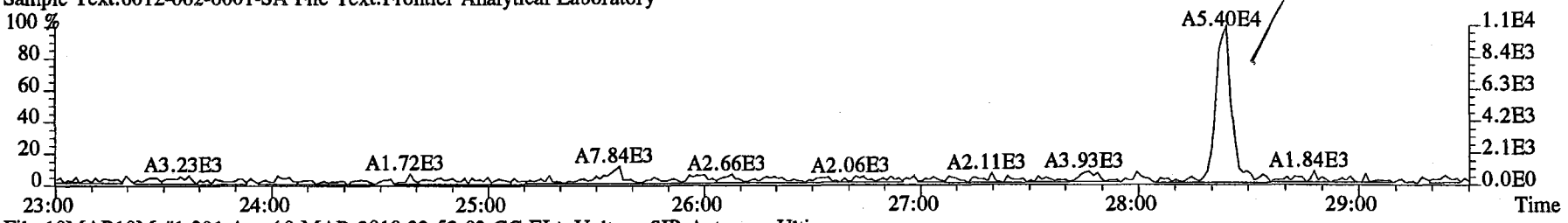
File:10MAR10M #1-391 Acq:10-MAR-2010 23:52:03 GC EI+ Voltage SIR Autospec-Ultima
303.9016 S:12 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-002-0001-SA File Text:Frontier Analytical Laboratory



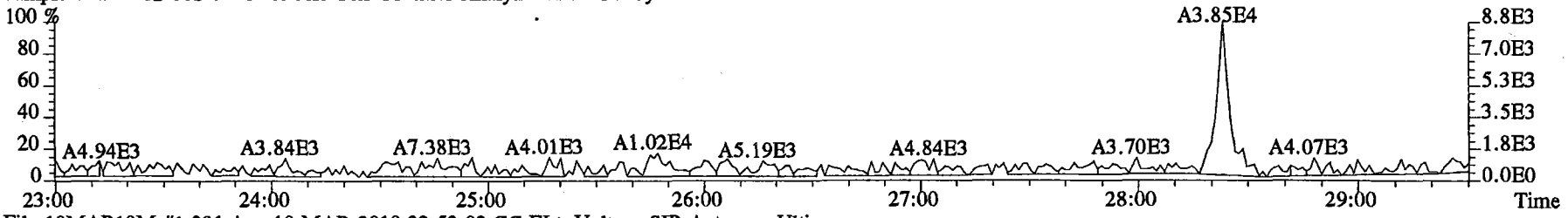
File:10MAR10M #1-391 Acq:10-MAR-2010 23:52:03 GC EI+ Voltage SIR Autospec-Ultima
305.8987 S:12 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-002-0001-SA File Text:Frontier Analytical Laboratory



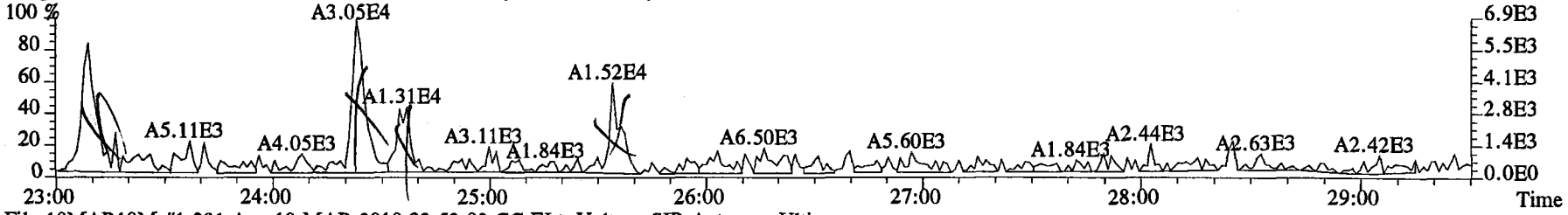
File:10MAR10M #1-391 Acq:10-MAR-2010 23:52:03 GC EI+ Voltage SIR Autospec-Ultima
339.8597 S:12 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-002-0001-SA File Text:Frontier Analytical Laboratory



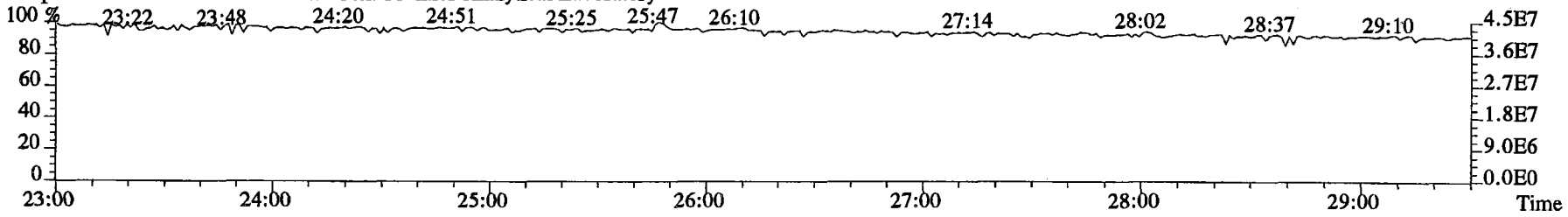
File:10MAR10M #1-391 Acq:10-MAR-2010 23:52:03 GC EI+ Voltage SIR Autospec-Ultima
341.8568 S:12 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-002-0001-SA File Text:Frontier Analytical Laboratory



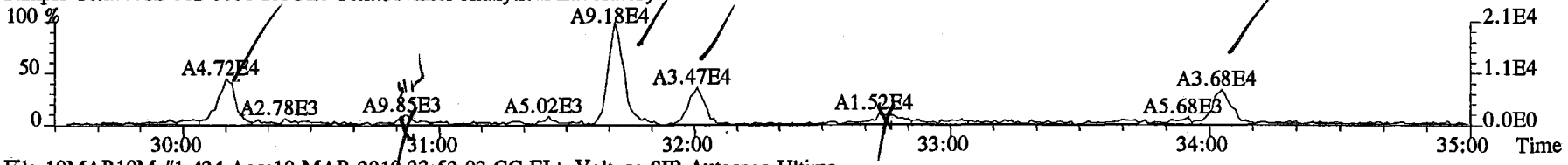
File:10MAR10M #1-391 Acq:10-MAR-2010 23:52:03 GC EI+ Voltage SIR Autospec-Ultima
409.7974 S:12 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-002-0001-SA File Text:Frontier Analytical Laboratory



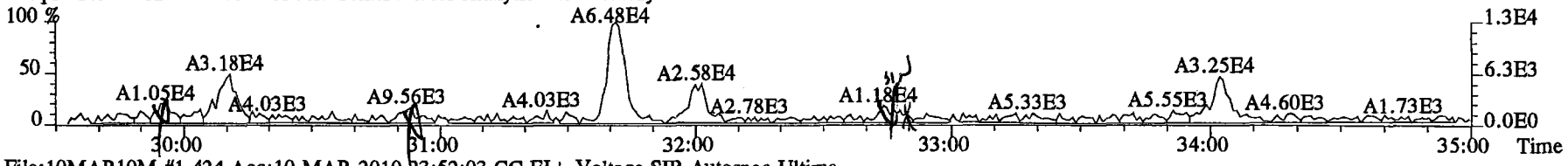
File:10MAR10M #1-391 Acq:10-MAR-2010 23:52:03 GC EI+ Voltage SIR Autospec-Ultima
330.9792 S:12 Exp:PCDD
Sample Text:6012-002-0001-SA File Text:Frontier Analytical Laboratory



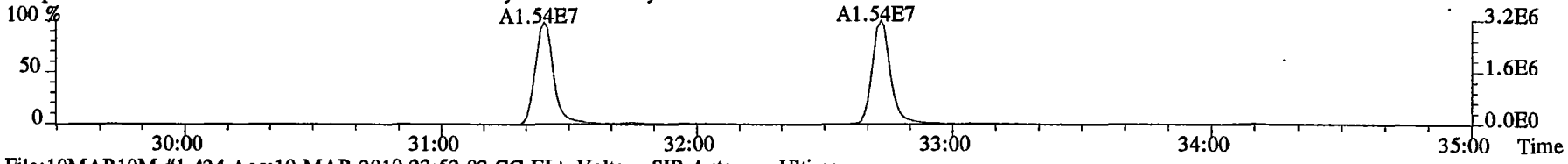
File:10MAR10M #1-424 Acq:10-MAR-2010 23:52:03 GC EI+ Voltage SIR Autospec-Ultima
339.8597 S:12 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-002-0001-SA File Text:Frontier Analytical Laboratory



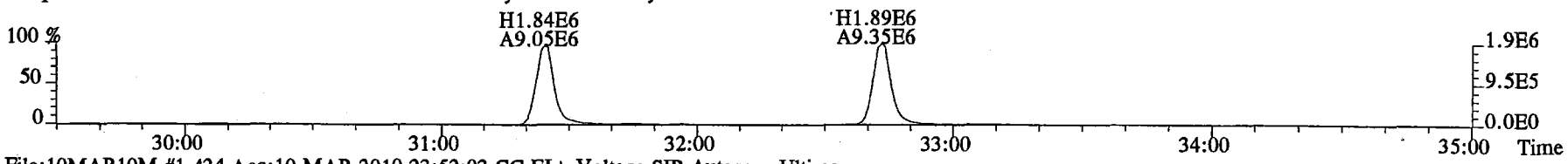
File:10MAR10M #1-424 Acq:10-MAR-2010 23:52:03 GC EI+ Voltage SIR Autospec-Ultima
341.8568 S:12 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-002-0001-SA File Text:Frontier Analytical Laboratory



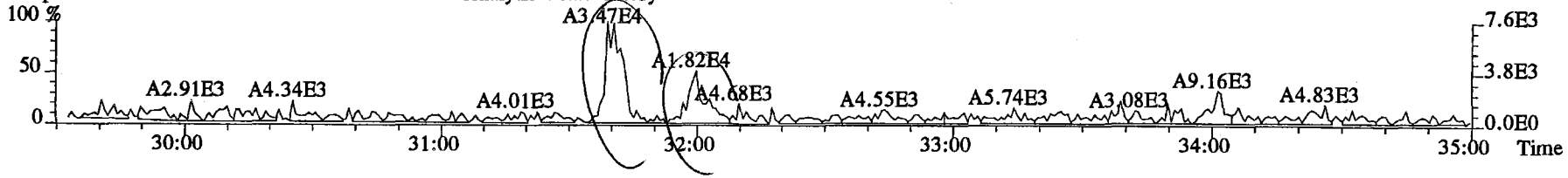
File:10MAR10M #1-424 Acq:10-MAR-2010 23:52:03 GC EI+ Voltage SIR Autospec-Ultima
351.9000 S:12 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-002-0001-SA File Text:Frontier Analytical Laboratory



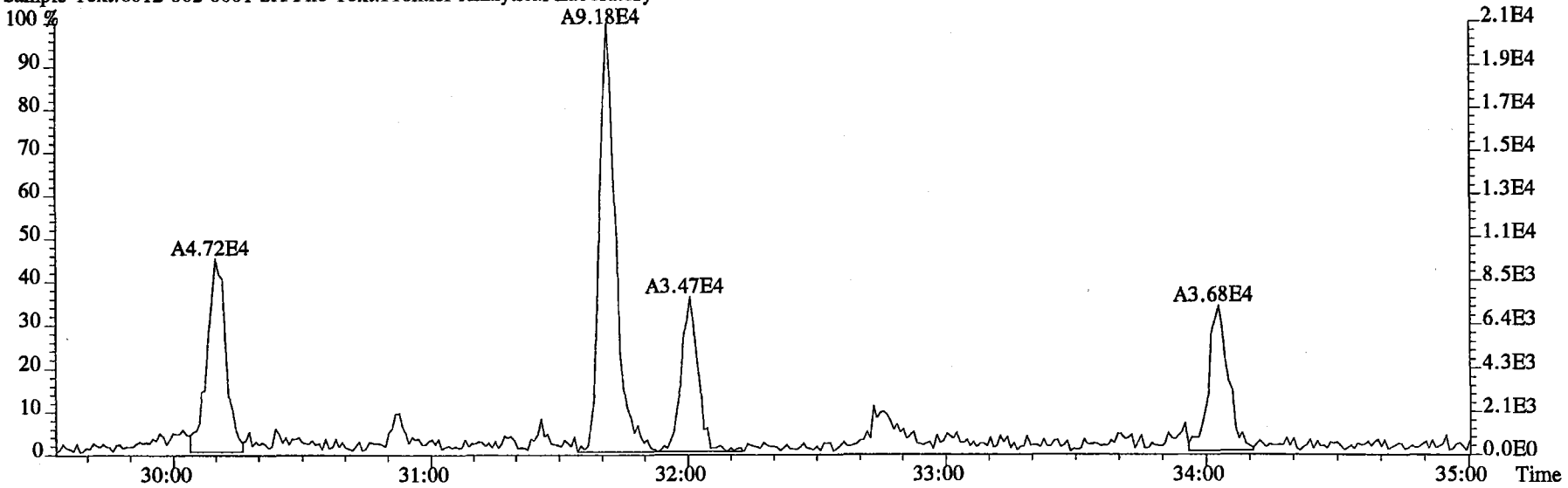
File:10MAR10M #1-424 Acq:10-MAR-2010 23:52:03 GC EI+ Voltage SIR Autospec-Ultima
353.8970 S:12 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-002-0001-SA File Text:Frontier Analytical Laboratory



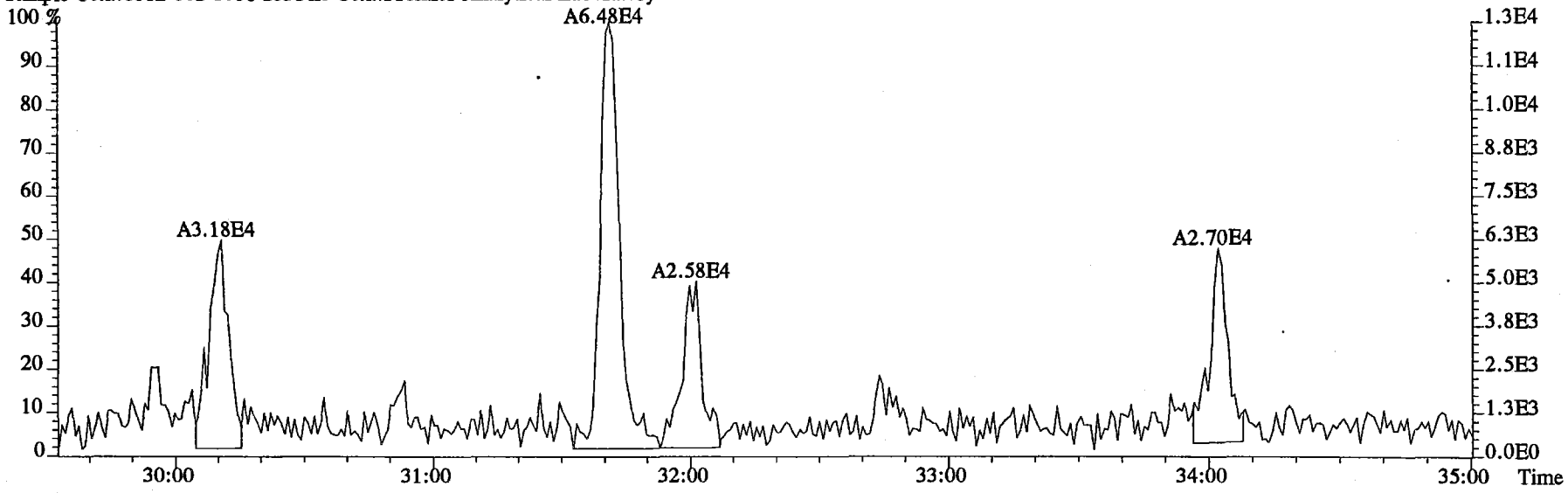
File:10MAR10M #1-424 Acq:10-MAR-2010 23:52:03 GC EI+ Voltage SIR Autospec-Ultima
409.7974 S:12 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-002-0001-SA File Text:Frontier Analytical Laboratory



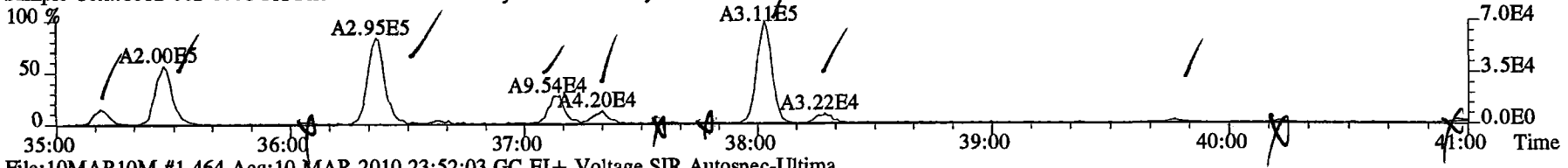
File:10MAR10M #1-424 Acq:10-MAR-2010 23:52:03 GC EI+ Voltage SIR Autospec-Ultima
339.8597 S:12 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-002-0001-SA File Text:Frontier Analytical Laboratory



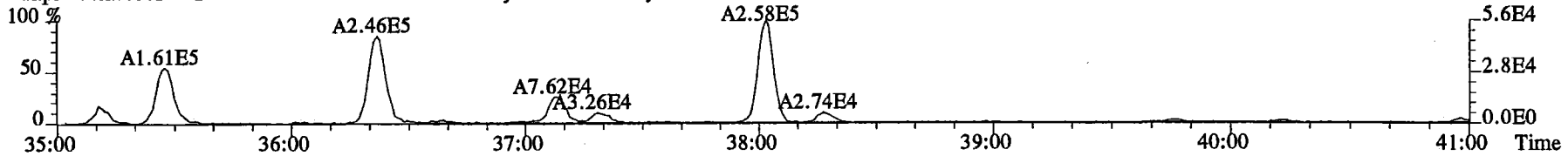
File:10MAR10M #1-424 Acq:10-MAR-2010 23:52:03 GC EI+ Voltage SIR Autospec-Ultima
341.8568 S:12 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-002-0001-SA File Text:Frontier Analytical Laboratory



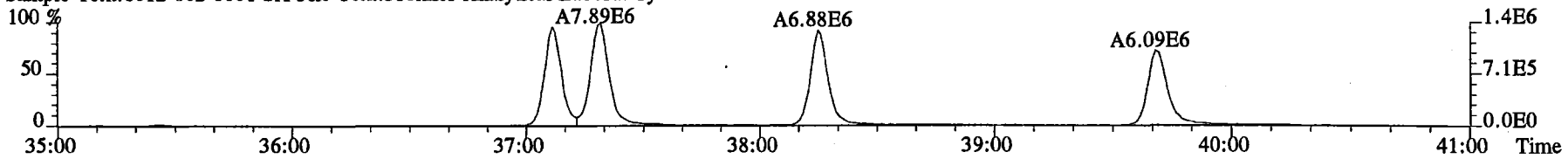
File:10MAR10M #1-464 Acq:10-MAR-2010 23:52:03 GC EI+ Voltage SIR Autospec-Ultima
373.8207 S:12 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-002-0001-SA File Text:Frontier Analytical Laboratory



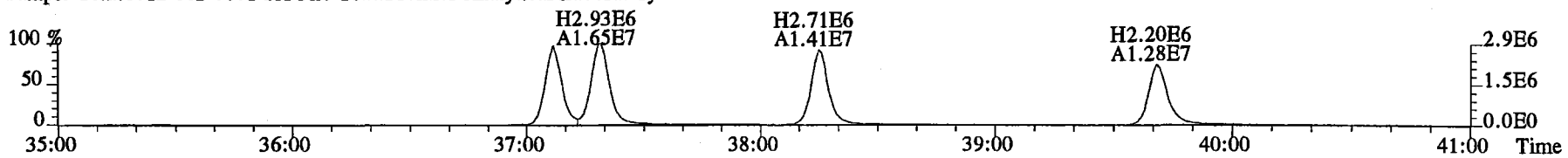
File:10MAR10M #1-464 Acq:10-MAR-2010 23:52:03 GC EI+ Voltage SIR Autospec-Ultima
375.8178 S:12 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-002-0001-SA File Text:Frontier Analytical Laboratory



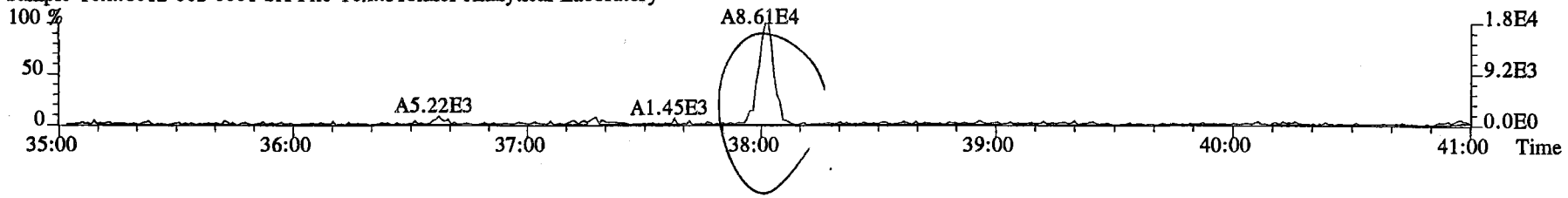
File:10MAR10M #1-464 Acq:10-MAR-2010 23:52:03 GC EI+ Voltage SIR Autospec-Ultima
383.8639 S:12 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-002-0001-SA File Text:Frontier Analytical Laboratory



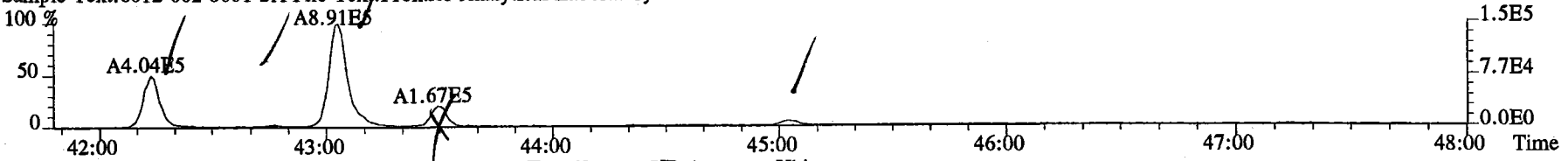
File:10MAR10M #1-464 Acq:10-MAR-2010 23:52:03 GC EI+ Voltage SIR Autospec-Ultima
385.8610 S:12 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-002-0001-SA File Text:Frontier Analytical Laboratory



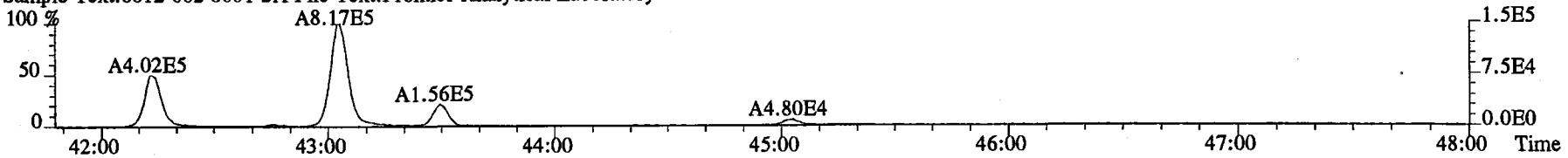
File:10MAR10M #1-464 Acq:10-MAR-2010 23:52:03 GC EI+ Voltage SIR Autospec-Ultima
445.7555 S:12 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-002-0001-SA File Text:Frontier Analytical Laboratory



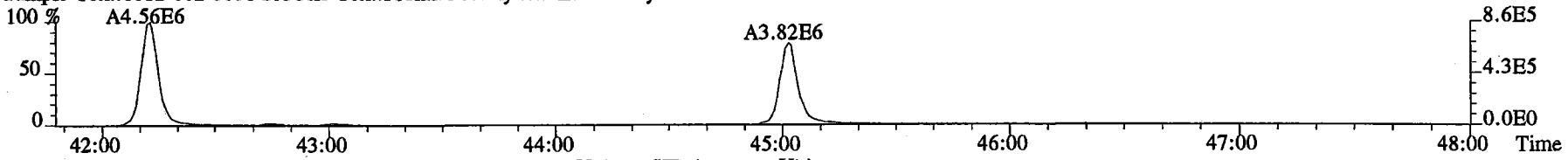
File:10MAR10M #1-541 Acq:10-MAR-2010 23:52:03 GC EI+ Voltage SIR Autospec-Ultima
407.7818 S:12 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-002-0001-SA File Text:Frontier Analytical Laboratory



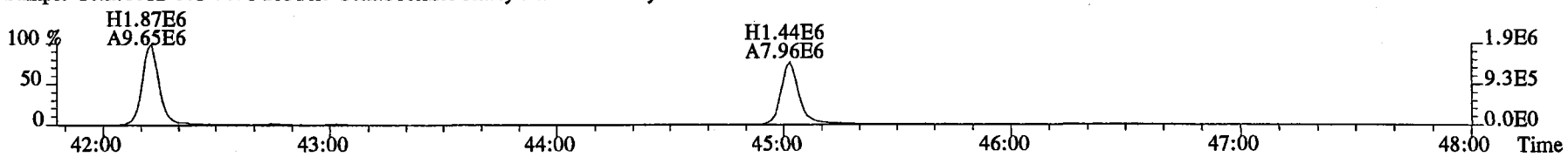
File:10MAR10M #1-541 Acq:10-MAR-2010 23:52:03 GC EI+ Voltage SIR Autospec-Ultima
409.7788 S:12 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-002-0001-SA File Text:Frontier Analytical Laboratory



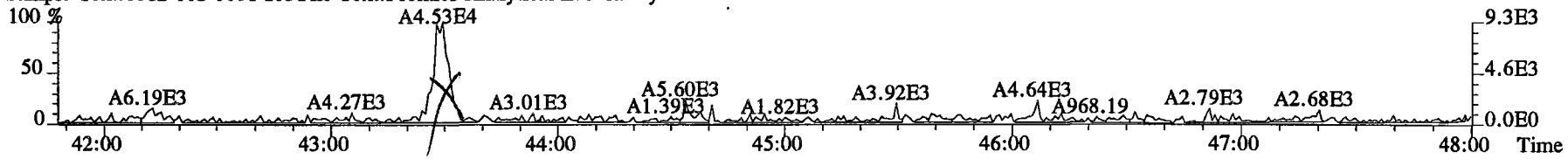
File:10MAR10M #1-541 Acq:10-MAR-2010 23:52:03 GC EI+ Voltage SIR Autospec-Ultima
417.8253 S:12 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-002-0001-SA File Text:Frontier Analytical Laboratory



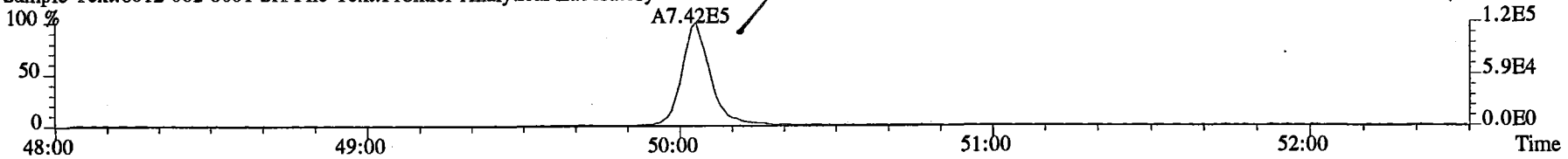
File:10MAR10M #1-541 Acq:10-MAR-2010 23:52:03 GC EI+ Voltage SIR Autospec-Ultima
419.8220 S:12 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-002-0001-SA File Text:Frontier Analytical Laboratory



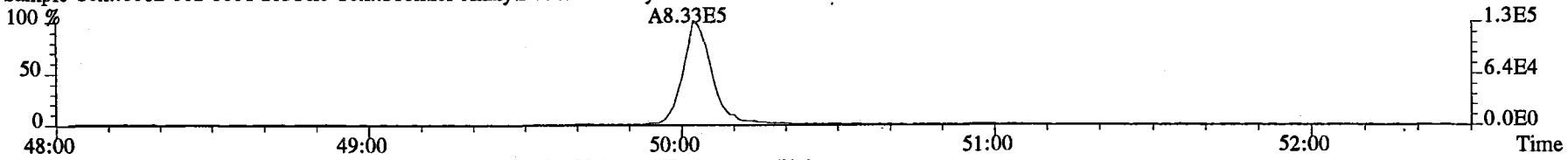
File:10MAR10M #1-541 Acq:10-MAR-2010 23:52:03 GC EI+ Voltage SIR Autospec-Ultima
479.7165 S:12 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-002-0001-SA File Text:Frontier Analytical Laboratory



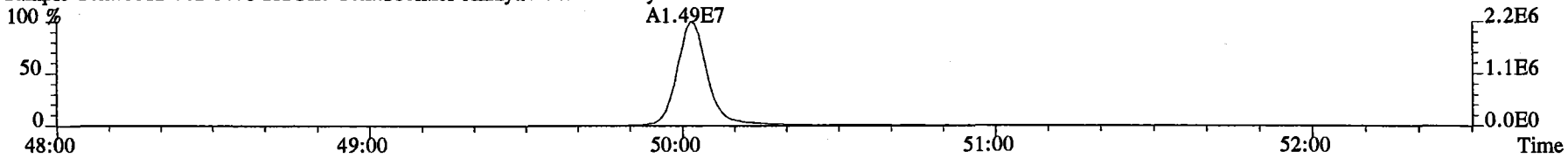
File:10MAR10M #1-347 Acq:10-MAR-2010 23:52:03 GC EI+ Voltage SIR Autospec-Ultima
441.7428 S:12 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-002-0001-SA File Text:Frontier Analytical Laboratory



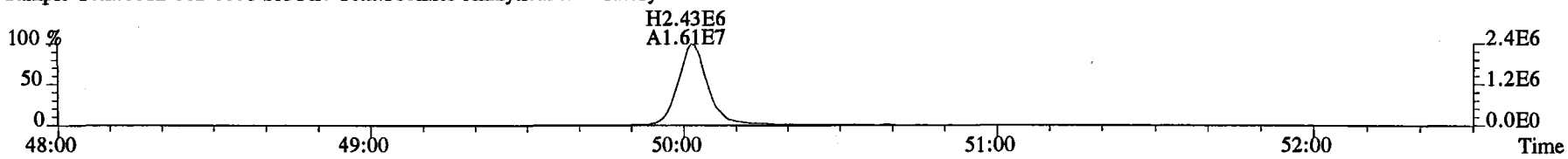
File:10MAR10M #1-347 Acq:10-MAR-2010 23:52:03 GC EI+ Voltage SIR Autospec-Ultima
443.7398 S:12 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-002-0001-SA File Text:Frontier Analytical Laboratory



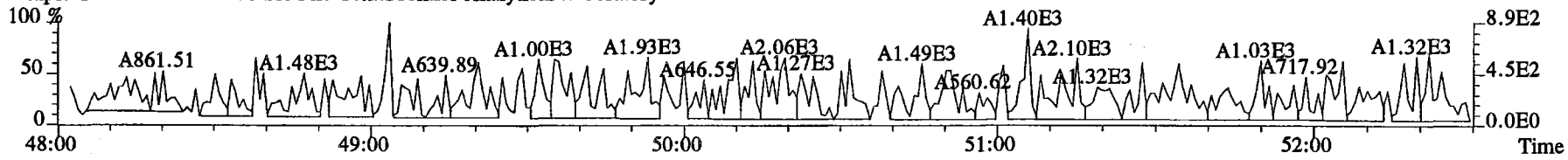
File:10MAR10M #1-347 Acq:10-MAR-2010 23:52:03 GC EI+ Voltage SIR Autospec-Ultima
453.7831 S:12 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-002-0001-SA File Text:Frontier Analytical Laboratory



File:10MAR10M #1-347 Acq:10-MAR-2010 23:52:03 GC EI+ Voltage SIR Autospec-Ultima
455.7801 S:12 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-002-0001-SA File Text:Frontier Analytical Laboratory



File:10MAR10M #1-347 Acq:10-MAR-2010 23:52:03 GC EI+ Voltage SIR Autospec-Ultima
513.6775 S:12 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-002-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 6012-003-0001-SA Filename: 10MAR10M Sam:13 Acquired: 11-MAR-10 00:47:26 ICal: PCDDFAL3-11-18-09
Client ID: CB1022710COMP ConCal: ST031010M1 EndCal: ST031010M2
Results: 6012 GC Column: DB5 Amount: 1.027 NATO 1989 Tox: 0.294
WHO 1998 Tox: 0.198 WHO 2005 Tox: 0.220

Name	Resp	RA		RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL
2,3,7,8-TCDD	*	*	n	NotFnd	1.02	*		2.50	749	717	1.62
1,2,3,7,8-PeCDD	*	*	n	NotFnd	0.96	*		2.50	509	370	1.38
1,2,3,4,7,8-HxCDD	*	*	n	NotFnd	1.37	*		2.50	784	660	2.23
1,2,3,6,7,8-HxCDD	*	*	n	NotFnd	1.34	*		2.50	784	660	2.75
1,2,3,7,8,9-HxCDD	*	*	n	NotFnd	1.37	*		2.50	784	660	2.47
1,2,3,4,6,7,8-HpCDD	9.43e+04	0.92	y	44:08	1.17	15.0	J	2.50	-	-	*
OCDD	4.86e+05	0.94	y	49:41	1.21	96.7		2.50	-	-	*
2,3,7,8-TCDF	*	*	n	NotFnd	1.29	*		2.50	548	1140	0.939
1,2,3,7,8-PeCDF	*	*	n	NotFnd	0.89	*		2.50	656	705	1.58
2,3,4,7,8-PeCDF	*	*	n	NotFnd	0.91	*		2.50	656	705	1.53
1,2,3,4,7,8-HxCDF	*	*	n	NotFnd	1.00	*		2.50	386	290	0.888
1,2,3,6,7,8-HxCDF	*	*	n	NotFnd	0.92	*		2.50	386	290	0.888
2,3,4,6,7,8-HxCDF	*	*	n	NotFnd	0.99	*		2.50	386	290	0.941
1,2,3,7,8,9-HxCDF	*	*	n	NotFnd	1.09	*		2.50	386	290	1.03
1,2,3,4,6,7,8-HpCDF	3.21e+04	1.03	y	42:13	1.36	3.79	J	2.50	-	-	*
1,2,3,4,7,8,9-HpCDF	*	*	n	NotFnd	1.61	*		2.50	397	368	1.35
OCDF	5.34e+04	0.79	y	50:03	0.84	9.46	J	2.50	-	-	*
											Rec
13C-2,3,7,8-TCDD	1.87e+07	0.74	y	27:18	0.94	1690					87.0
13C-1,2,3,7,8-PeCDD	1.62e+07	1.64	y	33:09	1.02	1360					69.6
13C-1,2,3,4,7,8-HxCDD	1.11e+07	1.31	y	38:30	0.98	1540					79.0
13C-1,2,3,6,7,8-HxCDD	1.04e+07	1.32	y	38:40	0.94	1520					77.8
13C-1,2,3,4,6,7,8-HpCDD	1.05e+07	1.06	y	44:06	0.90	1590					81.8
13C-OCDD	1.61e+07	0.98	y	49:40	0.67	3300					84.7
13C-2,3,7,8-TCDF	2.93e+07	0.81	y	26:33	0.88	1660					85.5
13C-1,2,3,7,8-PeCDF	2.29e+07	1.67	y	31:25	0.88	1300					66.8
13C-2,3,4,7,8-PeCDF	2.34e+07	1.70	y	32:44	0.85	1370					70.6
13C-1,2,3,4,7,8-HxCDF	1.91e+07	0.48	y	37:07	1.72	1520					77.9
13C-1,2,3,6,7,8-HxCDF	2.19e+07	0.49	y	37:19	2.00	1490					76.6
13C-2,3,4,6,7,8-HxCDF	1.86e+07	0.48	y	38:15	1.74	1470					75.3
13C-1,2,3,7,8,9-HxCDF	1.67e+07	0.49	y	39:41	1.51	1510					77.5
13C-1,2,3,4,6,7,8-HpCDF	1.21e+07	0.48	y	42:13	1.10	1510					77.4
13C-1,2,3,4,7,8,9-HpCDF	1.01e+07	0.49	y	45:01	0.85	1630					83.9
13C-OCDF	2.61e+07	0.92	y	50:02	1.17	3040					78.0
37Cl-2,3,7,8-TCDD	9.12e+06			27:19	0.97	799					103
13C-1,2,3,4-TCDD	2.28e+07	0.74	y	26:44	-	85.1					
13C-1,2,3,4-TCDF	3.90e+07	0.82	y	25:27	-	82.2					
13C-1,2,3,7,8,9-HxCDD	1.43e+07	1.33	y	39:07	-	67.7					

				Fac	Noise-1	Noise-2	DL		#Hom
Total Tetra-Dioxins	*	NotFnd	1.02	*	2.50	749	717	1.62		0
Total Penta-Dioxins	*	NotFnd	0.96	*	2.50	509	370	1.38		0
Total Hexa-Dioxins	*	NotFnd	1.36	*	2.50	784	660	2.75		0
Total Hepta-Dioxins	1.88e+05	42:45	1.17	29.8	2.50	-	-	*		2
Total Tetra-Furans	*	NotFnd	1.29	*	2.50	548	1140	0.939		0
1st Fn. Tot Penta-Furans	*	NotFnd	0.90	*	2.50	656	705	1.58	PeCDF	0
Total Penta-Furans	*	NotFnd	0.90	*	2.50	656	705	1.58	*	0
Total Hexa-Furans	3.72e+04	35:27	0.99	3.84	J 2.50	-	-	*		2
Total Hepta-Furans	7.14e+04	42:13	1.47	8.47	J 2.50	-	-	*		2

Analyst: _____ Date: 3/11/10

Totals class: Total Hepta-Dioxins Entry #: 41

Run: 19 File: 10MAR10M S: 13 I: 1 F: 4
Acquired: 11-MAR-10 00:47:26

Total Concentration: 29.8 Unnamed Concentration: 14.845

RT	ml Resp	m2 Resp	RA		Resp	Concentration	Name
42:45	4.54e+04	4.81e+04	0.94	y	9.34e+04	14.8	
44:08	4.51e+04	4.91e+04	0.92	y	9.43e+04	15.0	1,2,3,4,6,7,8-HpCDD

Totals class: Total Hexa-Furans Entry #: 45

Run: 19 File: 10MAR10M S: 13 I: 1 F: 3
Acquired: 11-MAR-10 00:47:26

Total Concentration: 3.84 Unnamed Concentration: 3.837

RT	m1 Resp	m2 Resp	RA	Resp	Concentration	Name
35:27	8.00e+03	6.79e+03	1.18 y	1.48e+04	1.52	
38:01	1.24e+04	1.00e+04	1.24 y	2.24e+04	2.31	

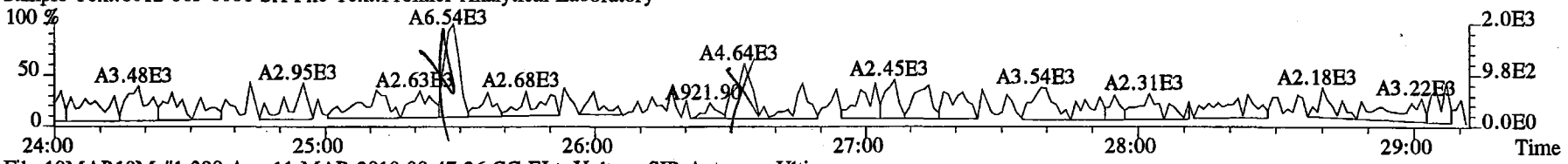
Totals class: Total Hepta-Furans Entry #: 46

Run: 19 File: 10MAR10M S: 13 I: 1 F: 4
Acquired: 11-MAR-10 00:47:26

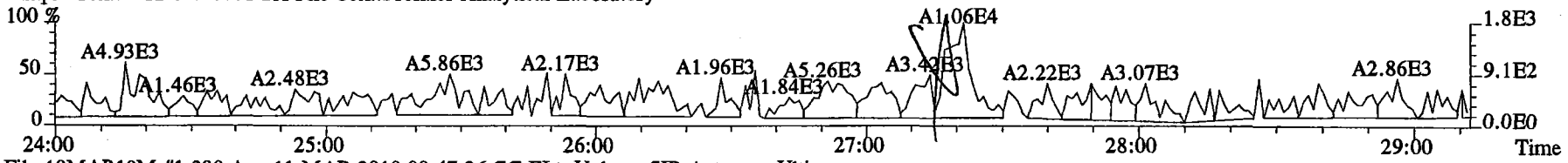
Total Concentration: 8.47 Unnamed Concentration: 4.687

RT	m1 Resp	m2 Resp	RA	Resp	Concentration	Name
42:13	1.63e+04	1.58e+04	1.03 y	3.21e+04	3.79	1,2,3,4,6,7,8-HpCDF
43:04	2.01e+04	1.93e+04	1.04 y	3.93e+04	4.69	

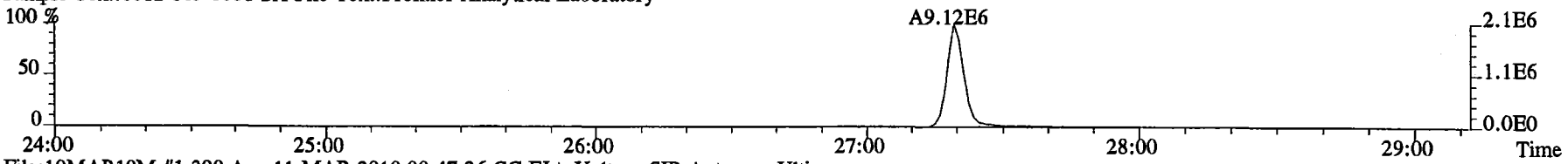
File:10MAR10M #1-390 Acq:11-MAR-2010 00:47:26 GC EI+ Voltage SIR Autospec-Ultima
319.8965 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-003-0001-SA File Text:Frontier Analytical Laboratory



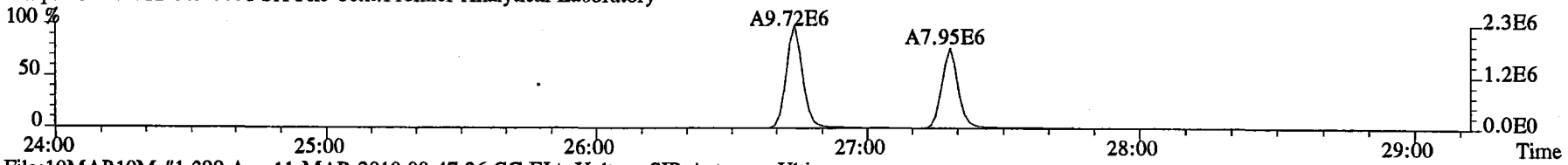
File:10MAR10M #1-390 Acq:11-MAR-2010 00:47:26 GC EI+ Voltage SIR Autospec-Ultima
321.8936 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-003-0001-SA File Text:Frontier Analytical Laboratory



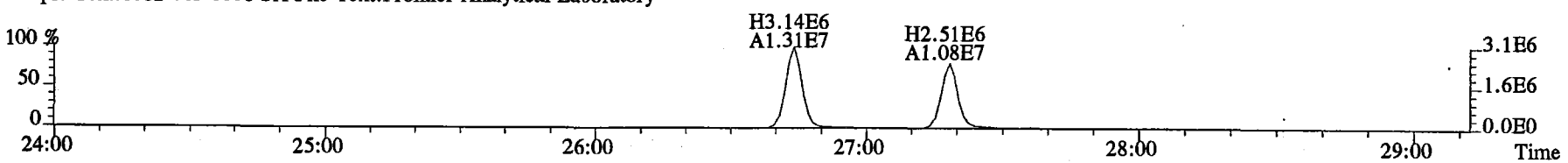
File:10MAR10M #1-390 Acq:11-MAR-2010 00:47:26 GC EI+ Voltage SIR Autospec-Ultima
327.8847 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-003-0001-SA File Text:Frontier Analytical Laboratory



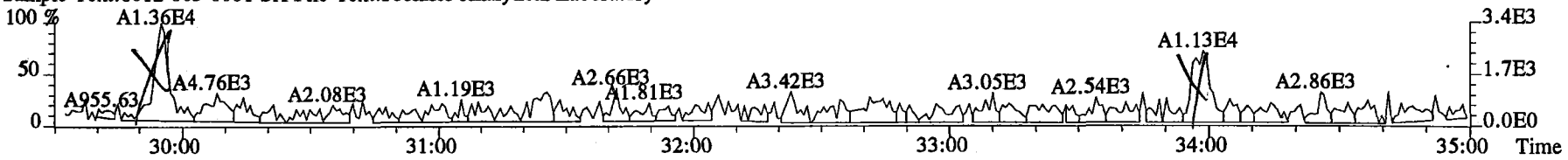
File:10MAR10M #1-390 Acq:11-MAR-2010 00:47:26 GC EI+ Voltage SIR Autospec-Ultima
331.9368 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-003-0001-SA File Text:Frontier Analytical Laboratory



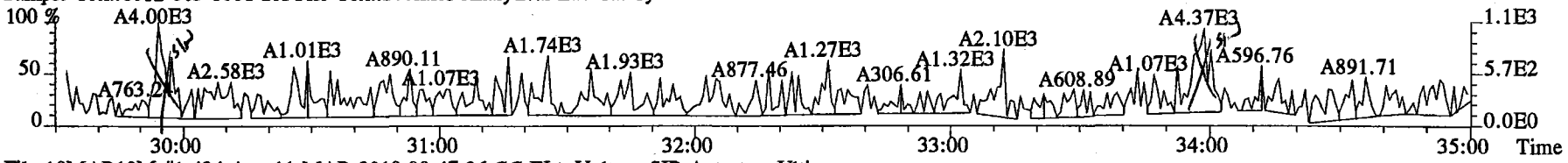
File:10MAR10M #1-390 Acq:11-MAR-2010 00:47:26 GC EI+ Voltage SIR Autospec-Ultima
333.9339 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-003-0001-SA File Text:Frontier Analytical Laboratory



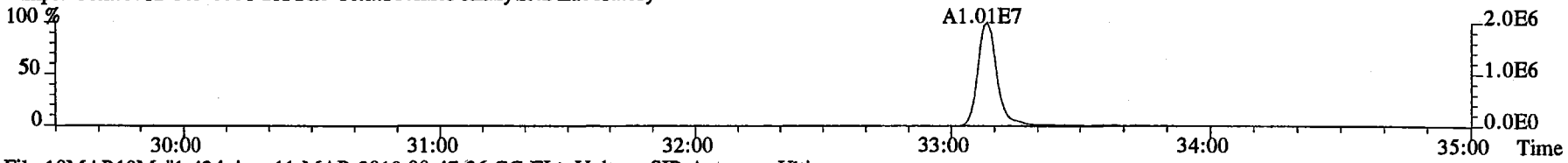
File:10MAR10M #1-424 Acq:11-MAR-2010 00:47:26 GC EI+ Voltage SIR Autospec-Ultima
355.8546 S:13 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-003-0001-SA File Text:Frontier Analytical Laboratory



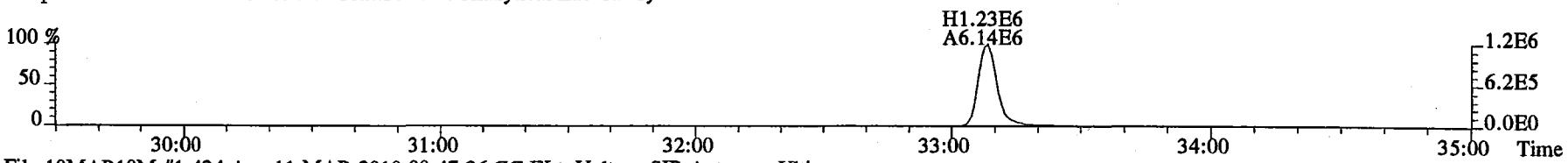
File:10MAR10M #1-424 Acq:11-MAR-2010 00:47:26 GC EI+ Voltage SIR Autospec-Ultima
357.8517 S:13 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-003-0001-SA File Text:Frontier Analytical Laboratory



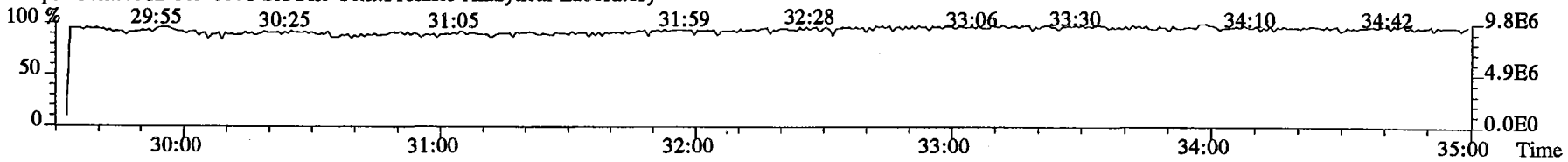
File:10MAR10M #1-424 Acq:11-MAR-2010 00:47:26 GC EI+ Voltage SIR Autospec-Ultima
367.8949 S:13 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-003-0001-SA File Text:Frontier Analytical Laboratory



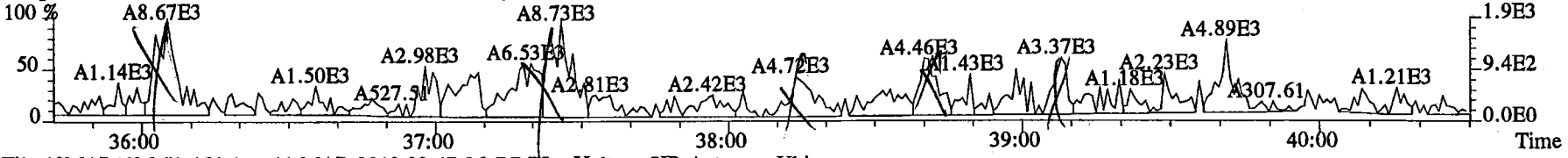
File:10MAR10M #1-424 Acq:11-MAR-2010 00:47:26 GC EI+ Voltage SIR Autospec-Ultima
369.8919 S:13 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-003-0001-SA File Text:Frontier Analytical Laboratory



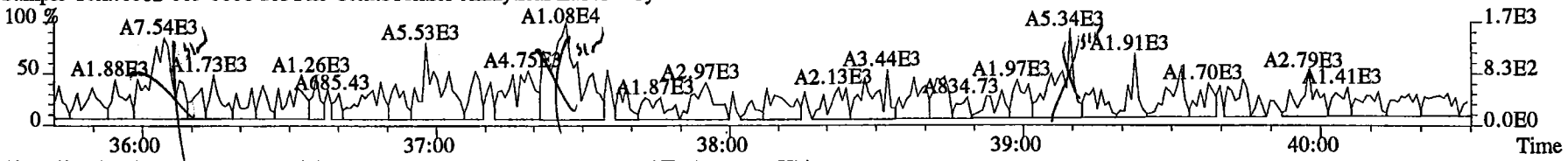
File:10MAR10M #1-424 Acq:11-MAR-2010 00:47:26 GC EI+ Voltage SIR Autospec-Ultima
366.9792 S:13 F:2 Exp:PCDD
Sample Text:6012-003-0001-SA File Text:Frontier Analytical Laboratory



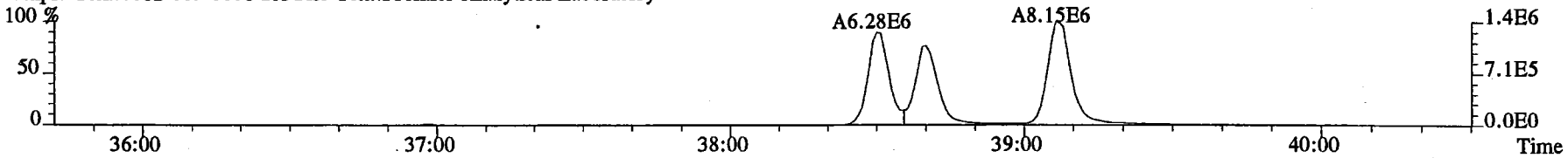
File:10MAR10M #1-464 Acq:11-MAR-2010 00:47:26 GC EI+ Voltage SIR Autospec-Ultima
389.8156 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-003-0001-SA File Text:Frontier Analytical Laboratory



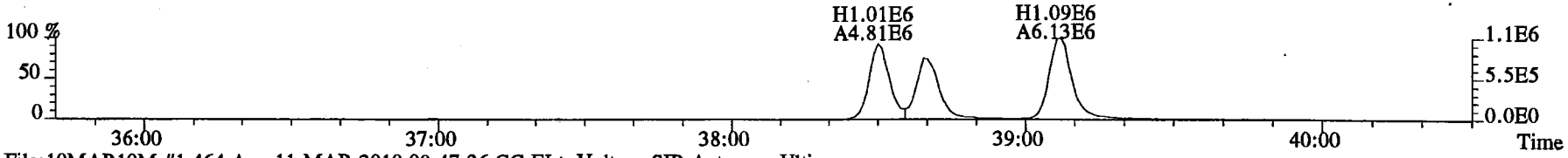
File:10MAR10M #1-464 Acq:11-MAR-2010 00:47:26 GC EI+ Voltage SIR Autospec-Ultima
391.8127 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-003-0001-SA File Text:Frontier Analytical Laboratory



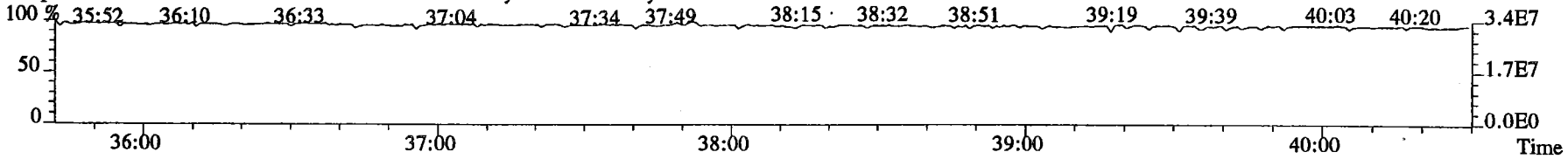
File:10MAR10M #1-464 Acq:11-MAR-2010 00:47:26 GC EI+ Voltage SIR Autospec-Ultima
401.8559 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-003-0001-SA File Text:Frontier Analytical Laboratory



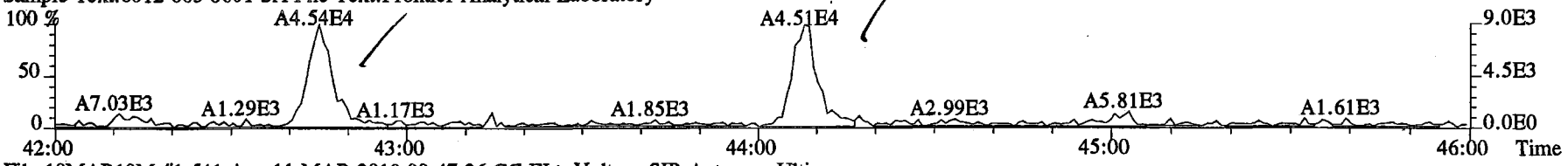
File:10MAR10M #1-464 Acq:11-MAR-2010 00:47:26 GC EI+ Voltage SIR Autospec-Ultima
403.8530 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-003-0001-SA File Text:Frontier Analytical Laboratory



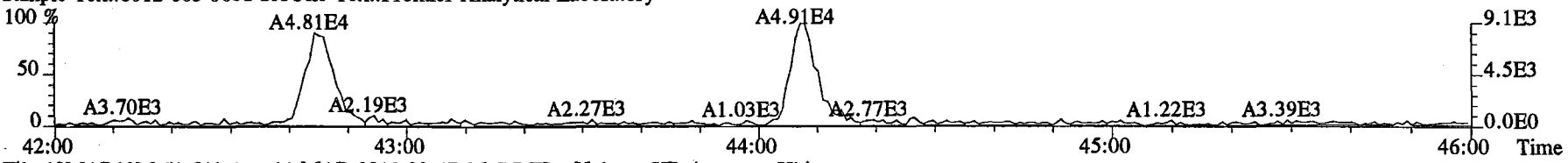
File:10MAR10M #1-464 Acq:11-MAR-2010 00:47:26 GC EI+ Voltage SIR Autospec-Ultima
380.9760 S:13 F:3 Exp:PCDD
Sample Text:6012-003-0001-SA File Text:Frontier Analytical Laboratory



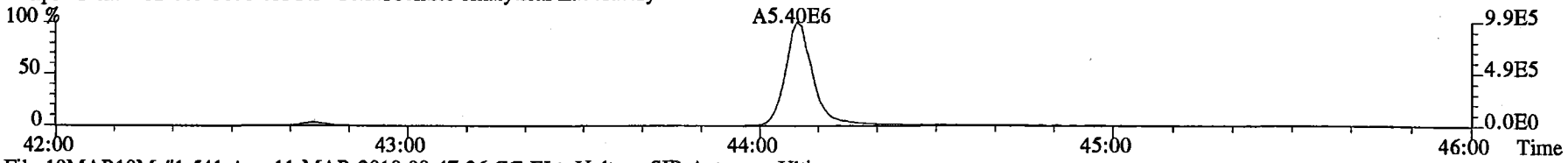
File:10MAR10M #1-541 Acq:11-MAR-2010 00:47:26 GC EI+ Voltage SIR Autospec-Ultima
423.7767 S:13 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-003-0001-SA File Text:Frontier Analytical Laboratory



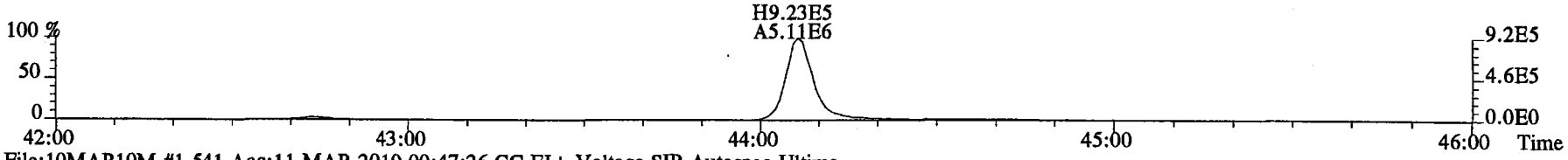
File:10MAR10M #1-541 Acq:11-MAR-2010 00:47:26 GC EI+ Voltage SIR Autospec-Ultima
425.7737 S:13 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-003-0001-SA File Text:Frontier Analytical Laboratory



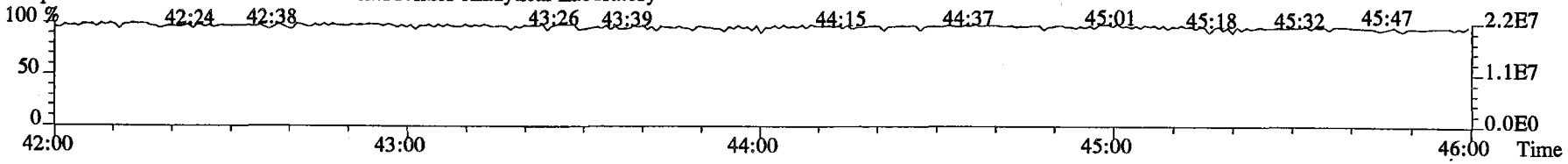
File:10MAR10M #1-541 Acq:11-MAR-2010 00:47:26 GC EI+ Voltage SIR Autospec-Ultima
435.8169 S:13 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-003-0001-SA File Text:Frontier Analytical Laboratory



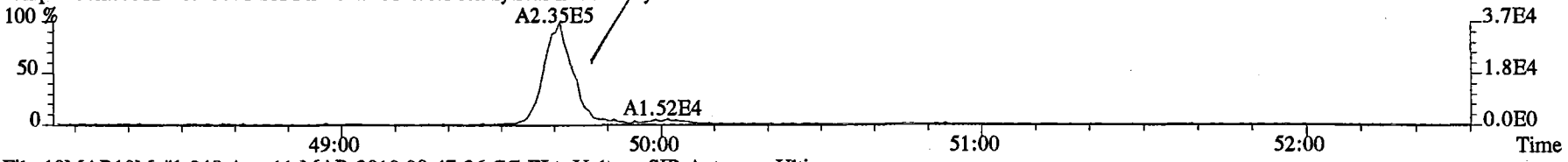
File:10MAR10M #1-541 Acq:11-MAR-2010 00:47:26 GC EI+ Voltage SIR Autospec-Ultima
437.8140 S:13 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-003-0001-SA File Text:Frontier Analytical Laboratory



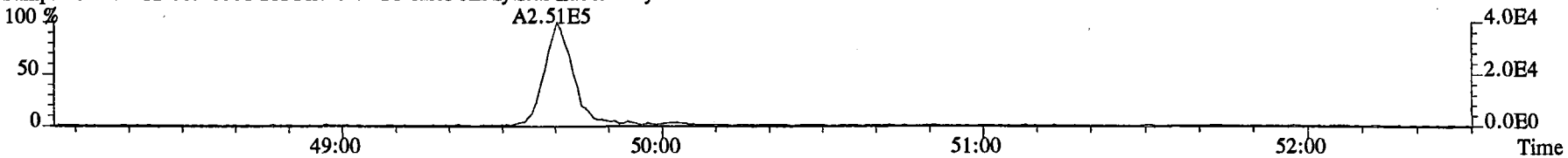
File:10MAR10M #1-541 Acq:11-MAR-2010 00:47:26 GC EI+ Voltage SIR Autospec-Ultima
430.9728 S:13 F:4 Exp:PCDD
Sample Text:6012-003-0001-SA File Text:Frontier Analytical Laboratory



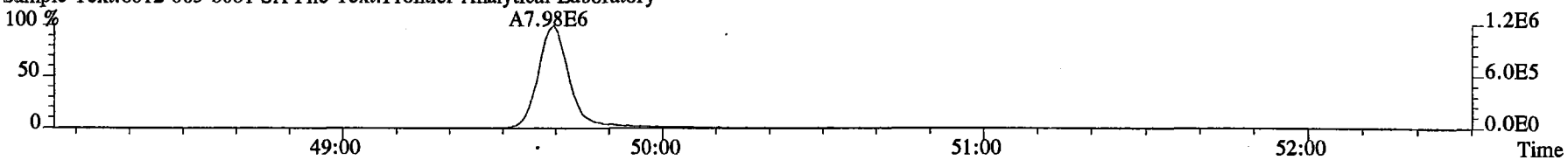
File:10MAR10M #1-348 Acq:11-MAR-2010 00:47:26 GC EI+ Voltage SIR Autospec-Ultima
457.7377 S:13 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-003-0001-SA File Text:Frontier Analytical Laboratory



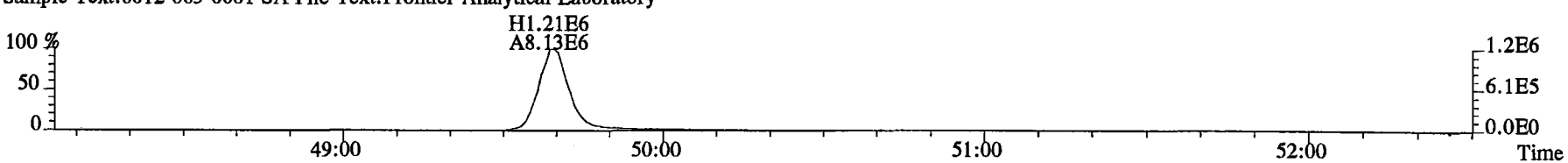
File:10MAR10M #1-348 Acq:11-MAR-2010 00:47:26 GC EI+ Voltage SIR Autospec-Ultima
459.7348 S:13 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-003-0001-SA File Text:Frontier Analytical Laboratory



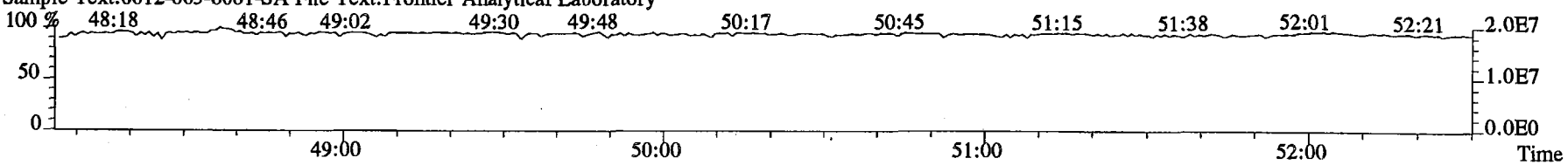
File:10MAR10M #1-348 Acq:11-MAR-2010 00:47:26 GC EI+ Voltage SIR Autospec-Ultima
469.7780 S:13 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-003-0001-SA File Text:Frontier Analytical Laboratory



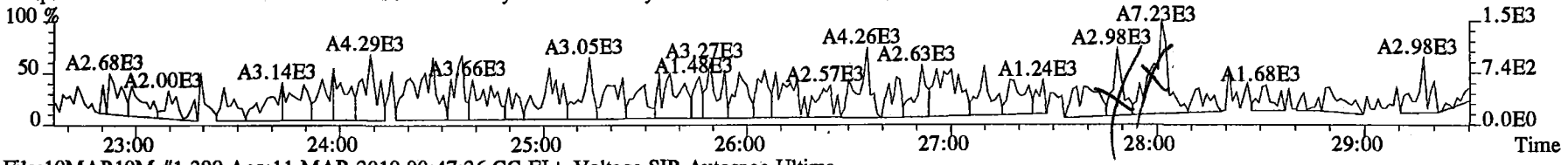
File:10MAR10M #1-348 Acq:11-MAR-2010 00:47:26 GC EI+ Voltage SIR Autospec-Ultima
471.7750 S:13 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-003-0001-SA File Text:Frontier Analytical Laboratory



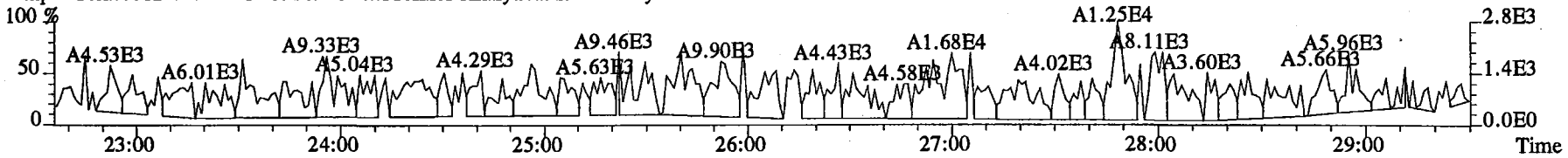
File:10MAR10M #1-348 Acq:11-MAR-2010 00:47:26 GC EI+ Voltage SIR Autospec-Ultima
454.9728 S:13 F:5 Exp:PCDD
Sample Text:6012-003-0001-SA File Text:Frontier Analytical Laboratory



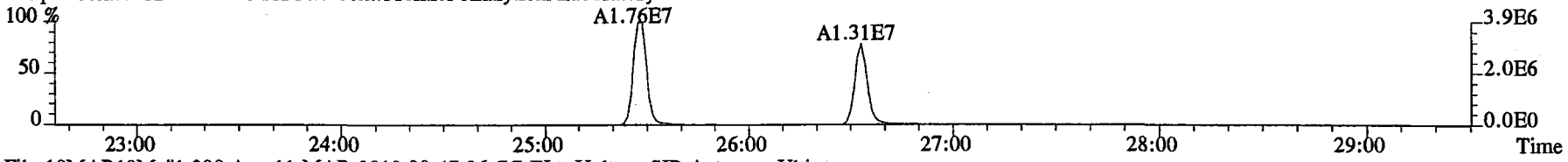
File:10MAR10M #1-390 Acq:11-MAR-2010 00:47:26 GC EI+ Voltage SIR Autospec-Ultima
303.9016 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-003-0001-SA File Text:Frontier Analytical Laboratory



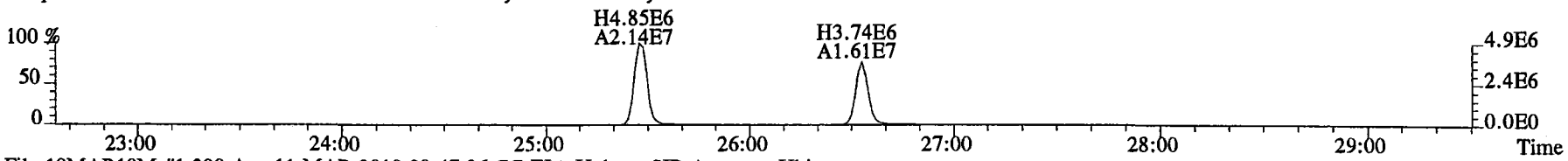
File:10MAR10M #1-390 Acq:11-MAR-2010 00:47:26 GC EI+ Voltage SIR Autospec-Ultima
305.8987 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-003-0001-SA File Text:Frontier Analytical Laboratory



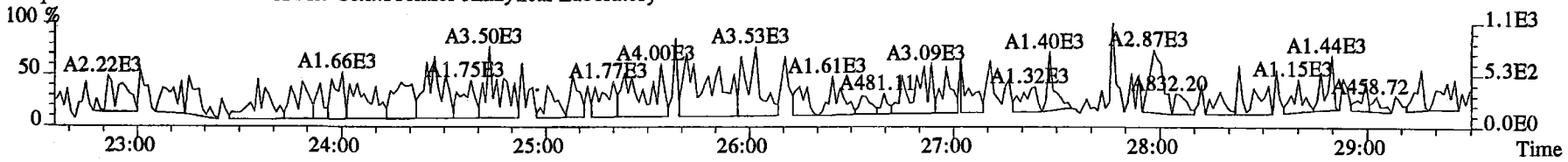
File:10MAR10M #1-390 Acq:11-MAR-2010 00:47:26 GC EI+ Voltage SIR Autospec-Ultima
315.9419 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-003-0001-SA File Text:Frontier Analytical Laboratory



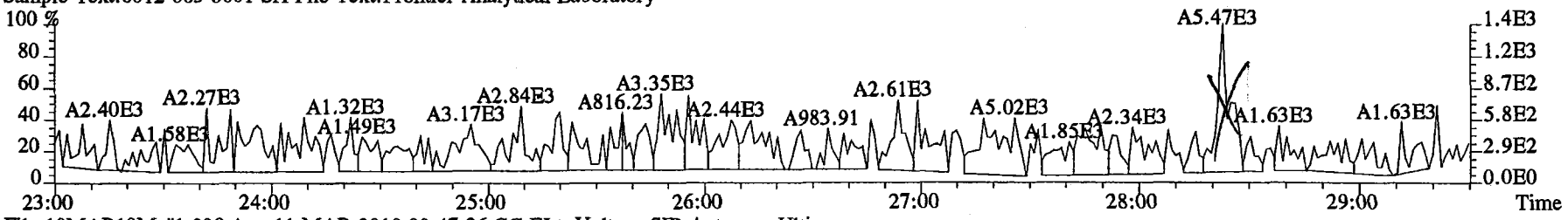
File:10MAR10M #1-390 Acq:11-MAR-2010 00:47:26 GC EI+ Voltage SIR Autospec-Ultima
317.9389 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-003-0001-SA File Text:Frontier Analytical Laboratory



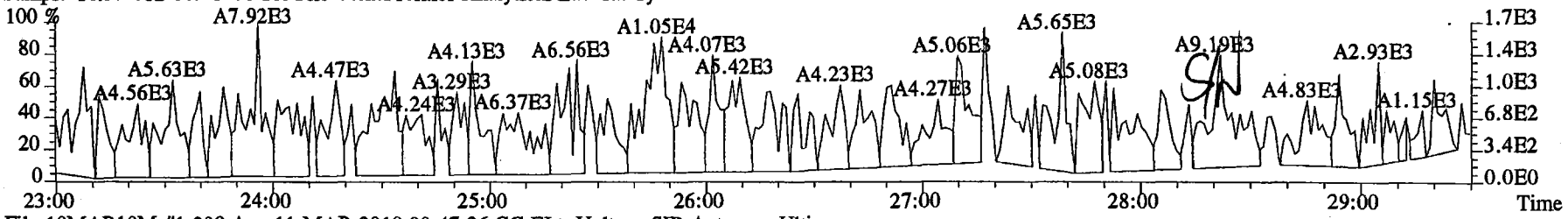
File:10MAR10M #1-390 Acq:11-MAR-2010 00:47:26 GC EI+ Voltage SIR Autospec-Ultima
375.8364 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-003-0001-SA File Text:Frontier Analytical Laboratory



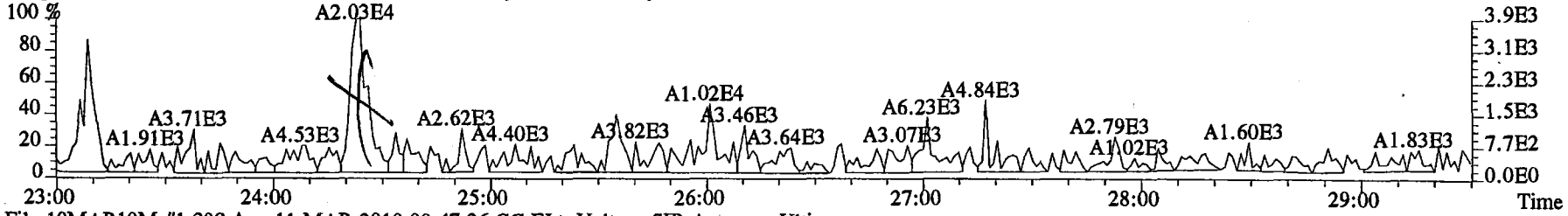
File:10MAR10M #1-390 Acq:11-MAR-2010 00:47:26 GC EI+ Voltage SIR Autospec-Ultima
339.8597 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-003-0001-SA File Text:Frontier Analytical Laboratory



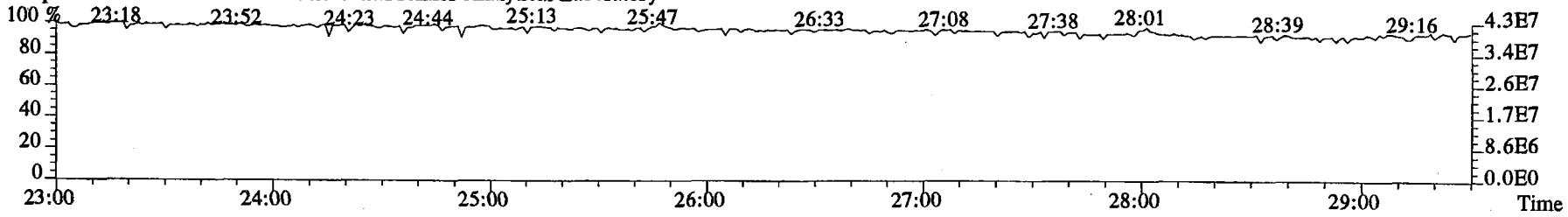
File:10MAR10M #1-390 Acq:11-MAR-2010 00:47:26 GC EI+ Voltage SIR Autospec-Ultima
341.8568 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-003-0001-SA File Text:Frontier Analytical Laboratory



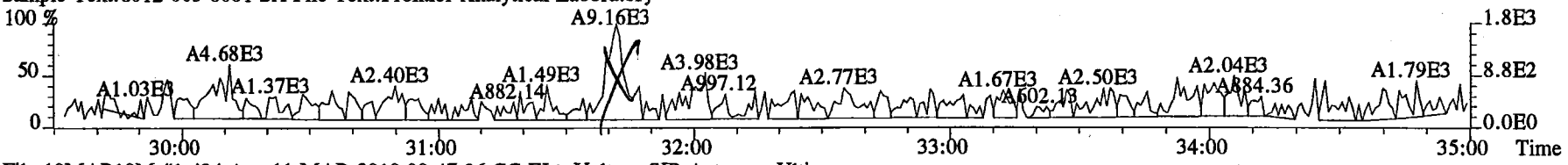
File:10MAR10M #1-390 Acq:11-MAR-2010 00:47:26 GC EI+ Voltage SIR Autospec-Ultima
409.7974 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-003-0001-SA File Text:Frontier Analytical Laboratory



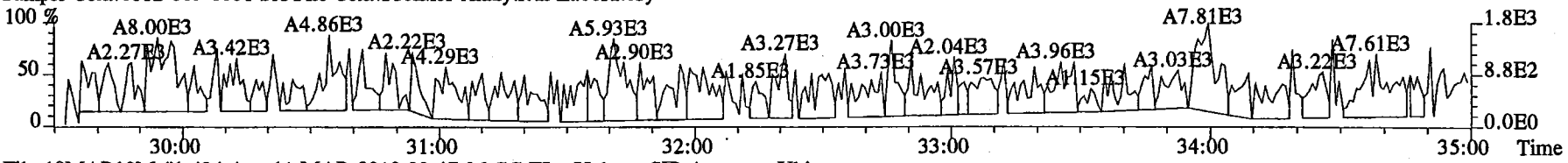
File:10MAR10M #1-390 Acq:11-MAR-2010 00:47:26 GC EI+ Voltage SIR Autospec-Ultima
330.9792 S:13 Exp:PCDD
Sample Text:6012-003-0001-SA File Text:Frontier Analytical Laboratory



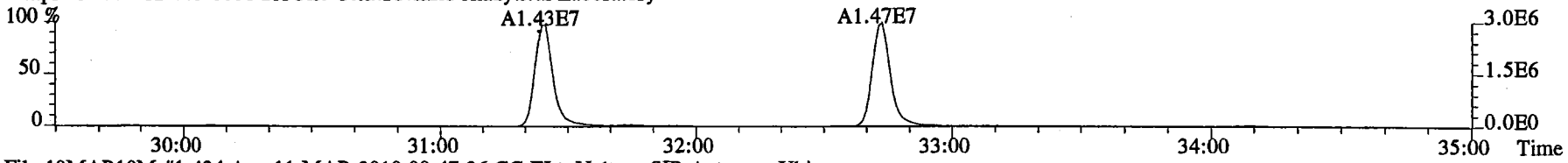
File:10MAR10M #1-424 Acq:11-MAR-2010 00:47:26 GC EI+ Voltage SIR Autospec-Ultima
339.8597 S:13 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-003-0001-SA File Text:Frontier Analytical Laboratory



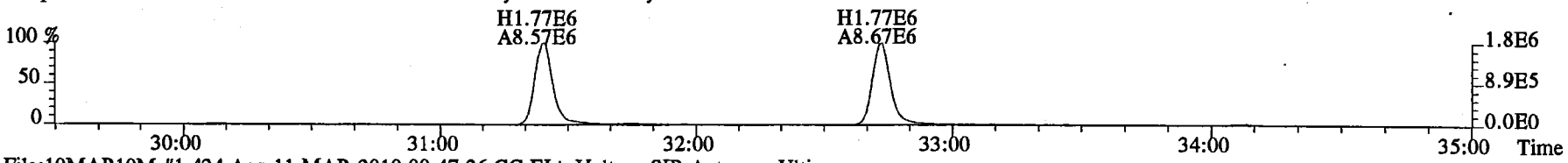
File:10MAR10M #1-424 Acq:11-MAR-2010 00:47:26 GC EI+ Voltage SIR Autospec-Ultima
341.8568 S:13 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-003-0001-SA File Text:Frontier Analytical Laboratory



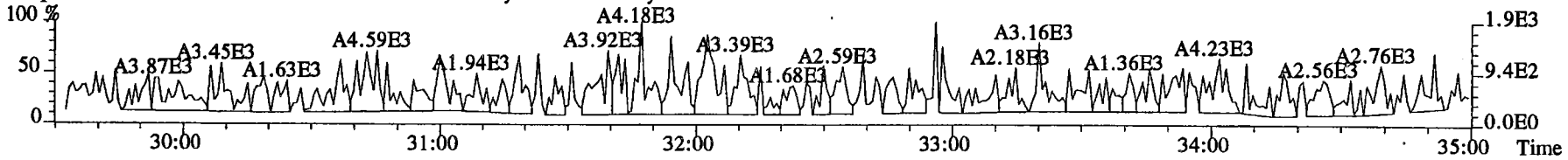
File:10MAR10M #1-424 Acq:11-MAR-2010 00:47:26 GC EI+ Voltage SIR Autospec-Ultima
351.9000 S:13 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-003-0001-SA File Text:Frontier Analytical Laboratory



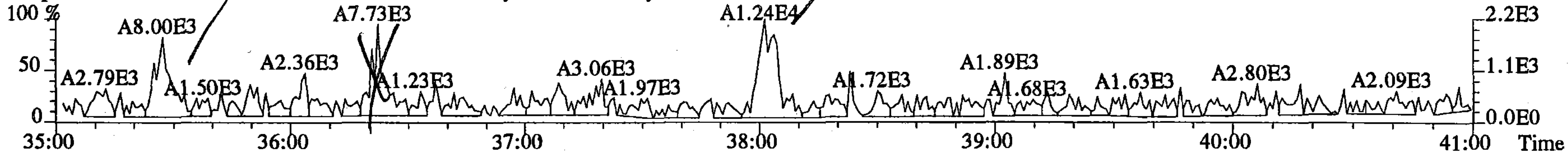
File:10MAR10M #1-424 Acq:11-MAR-2010 00:47:26 GC EI+ Voltage SIR Autospec-Ultima
353.8970 S:13 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-003-0001-SA File Text:Frontier Analytical Laboratory



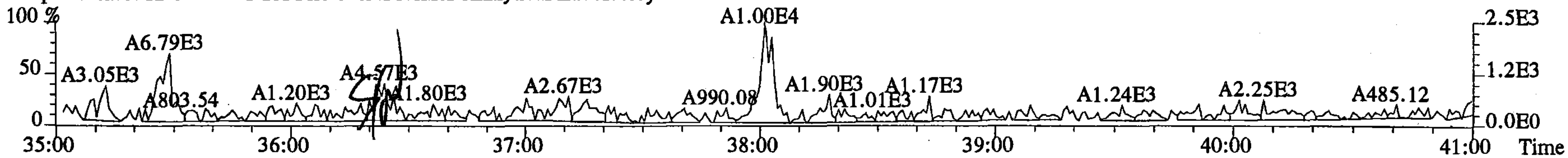
File:10MAR10M #1-424 Acq:11-MAR-2010 00:47:26 GC EI+ Voltage SIR Autospec-Ultima
409.7974 S:13 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-003-0001-SA File Text:Frontier Analytical Laboratory



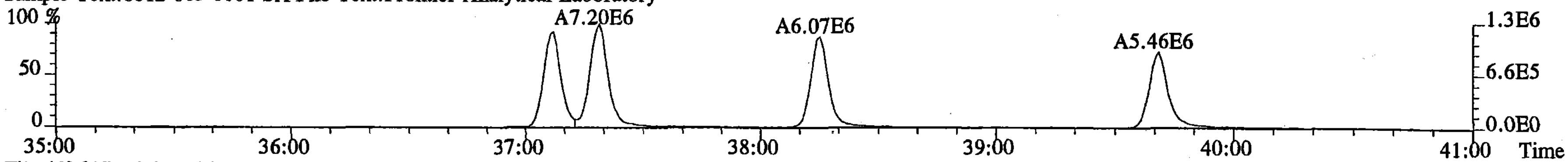
File:10MAR10M #1-464 Acq:11-MAR-2010 00:47:26 GC EI+ Voltage SIR Autospec-Ultima
373.8207 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-003-0001-SA File Text:Frontier Analytical Laboratory



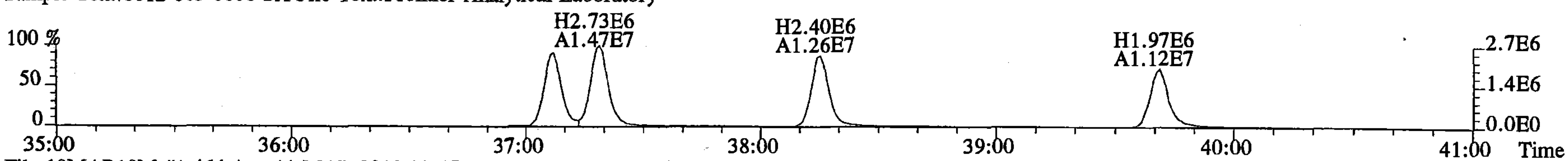
File:10MAR10M #1-464 Acq:11-MAR-2010 00:47:26 GC EI+ Voltage SIR Autospec-Ultima
375.8178 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-003-0001-SA File Text:Frontier Analytical Laboratory



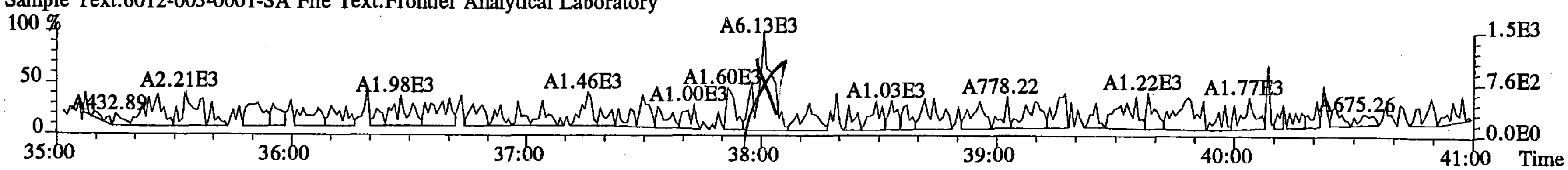
File:10MAR10M #1-464 Acq:11-MAR-2010 00:47:26 GC EI+ Voltage SIR Autospec-Ultima
383.8639 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-003-0001-SA File Text:Frontier Analytical Laboratory



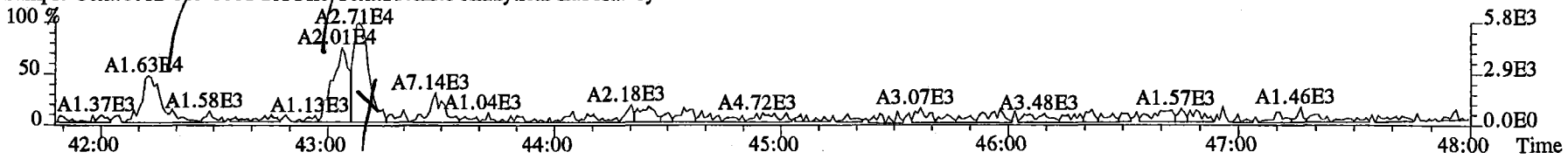
File:10MAR10M #1-464 Acq:11-MAR-2010 00:47:26 GC EI+ Voltage SIR Autospec-Ultima
385.8610 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-003-0001-SA File Text:Frontier Analytical Laboratory



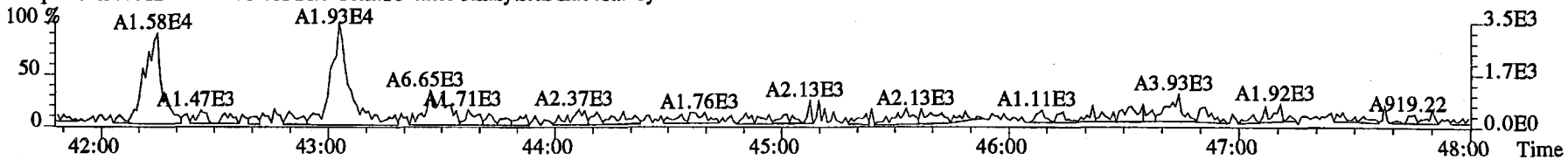
File:10MAR10M #1-464 Acq:11-MAR-2010 00:47:26 GC EI+ Voltage SIR Autospec-Ultima
445.7555 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-003-0001-SA File Text:Frontier Analytical Laboratory



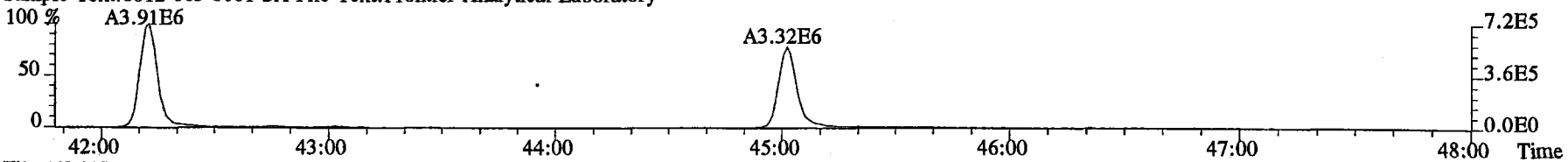
File:10MAR10M #1-541 Acq:11-MAR-2010 00:47:26 GC EI+ Voltage SIR Autospec-Ultima
407.7818 S:13 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-003-0001-SA File Text:Frontier Analytical Laboratory



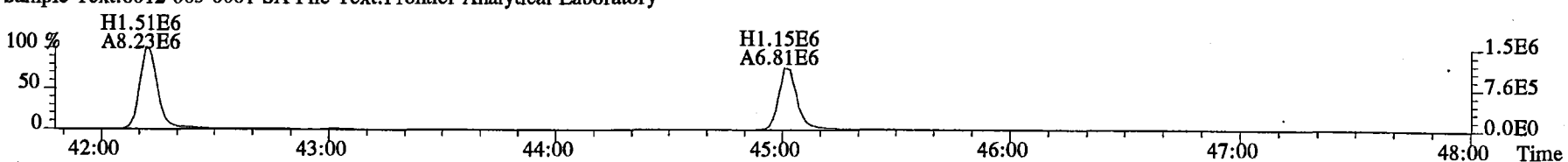
File:10MAR10M #1-541 Acq:11-MAR-2010 00:47:26 GC EI+ Voltage SIR Autospec-Ultima
409.7788 S:13 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-003-0001-SA File Text:Frontier Analytical Laboratory



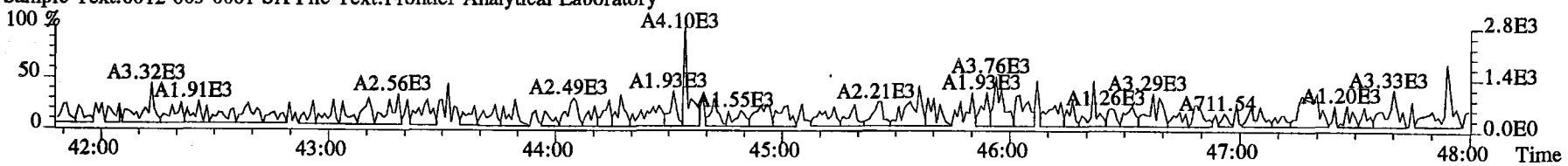
File:10MAR10M #1-541 Acq:11-MAR-2010 00:47:26 GC EI+ Voltage SIR Autospec-Ultima
417.8253 S:13 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-003-0001-SA File Text:Frontier Analytical Laboratory



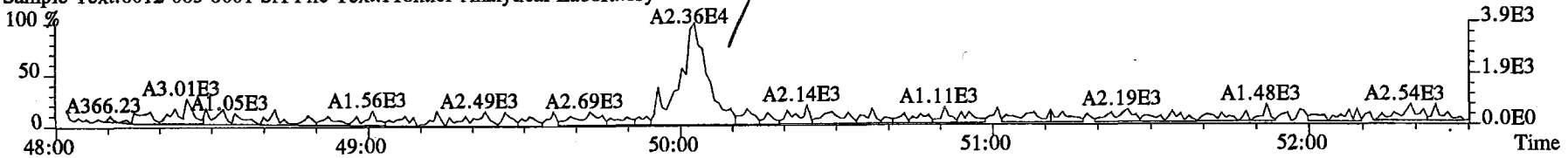
File:10MAR10M #1-541 Acq:11-MAR-2010 00:47:26 GC EI+ Voltage SIR Autospec-Ultima
419.8220 S:13 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-003-0001-SA File Text:Frontier Analytical Laboratory



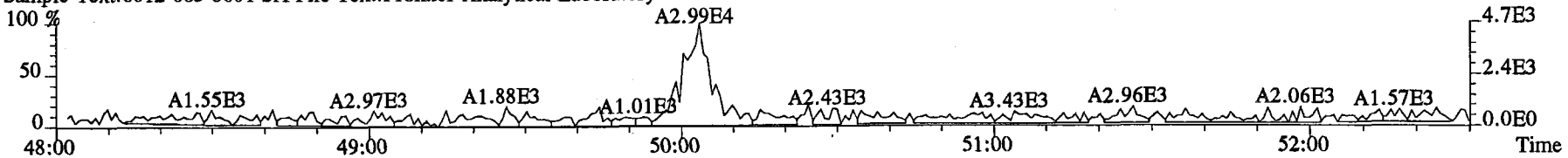
File:10MAR10M #1-541 Acq:11-MAR-2010 00:47:26 GC EI+ Voltage SIR Autospec-Ultima
479.7165 S:13 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-003-0001-SA File Text:Frontier Analytical Laboratory



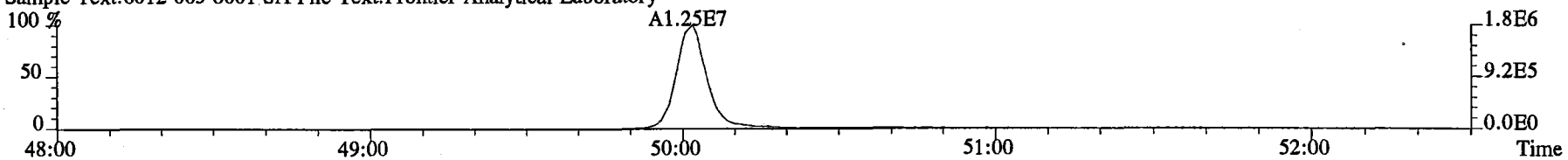
File:10MAR10M #1-348 Acq:11-MAR-2010 00:47:26 GC EI+ Voltage SIR Autospec-Ultima
441.7428 S:13 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-003-0001-SA File Text:Frontier Analytical Laboratory



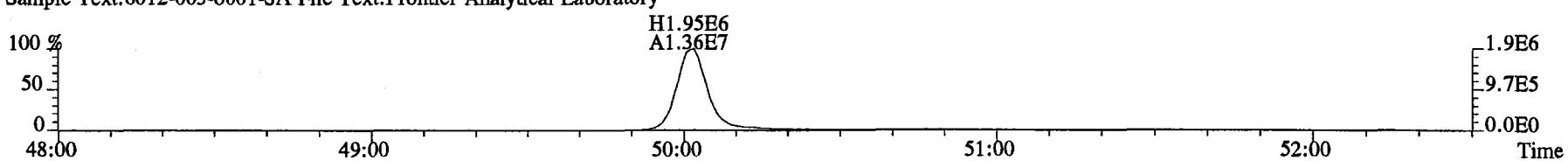
File:10MAR10M #1-348 Acq:11-MAR-2010 00:47:26 GC EI+ Voltage SIR Autospec-Ultima
443.7398 S:13 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-003-0001-SA File Text:Frontier Analytical Laboratory



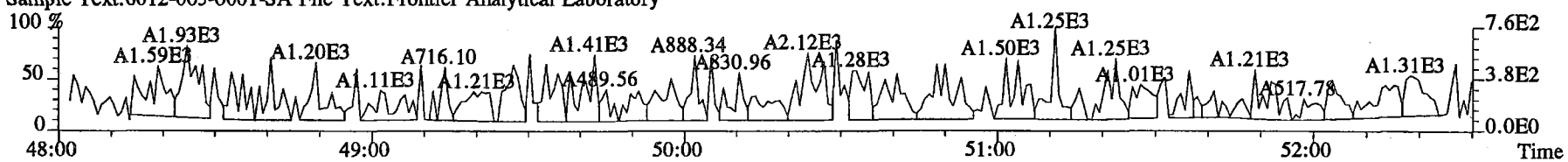
File:10MAR10M #1-348 Acq:11-MAR-2010 00:47:26 GC EI+ Voltage SIR Autospec-Ultima
453.7831 S:13 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-003-0001-SA File Text:Frontier Analytical Laboratory



File:10MAR10M #1-348 Acq:11-MAR-2010 00:47:26 GC EI+ Voltage SIR Autospec-Ultima
455.7801 S:13 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-003-0001-SA File Text:Frontier Analytical Laboratory



File:10MAR10M #1-348 Acq:11-MAR-2010 00:47:26 GC EI+ Voltage SIR Autospec-Ultima
513.6775 S:13 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-003-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 6012-004-0001-SA Filename: 10MAR10M Sam:14 Acquired: 11-MAR-10 01:42:44 ICal: PCDDFAL3-11-18-09
Client ID: CB102022710COMP ConCal: ST031010M1 EndCal: ST031010M2
Results: 6012 GC Column: DB5 Amount: 1.007 NATO 1989 Tox: 0.297 WHO 1998 Tox: 0.201 WHO 2005 Tox: ~~0.222~~ 0.223 DN 3/11/10

Name	Resp	RA		RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL
2,3,7,8-TCDD	*	*	n	NotFnd	1.02	*		2.50	489	516	1.27
1,2,3,7,8-PeCDD	*	*	n	NotFnd	0.96	*		2.50	464	288	1.33
1,2,3,4,7,8-HxCDD	*	*	n	NotFnd	1.37	*		2.50	741	583	2.57
1,2,3,6,7,8-HxCDD	*	*	n	NotFnd	1.34	*		2.50	741	583	2.90
1,2,3,7,8,9-HxCDD	*	*	n	NotFnd	1.37	*		2.50	741	583	2.71
1,2,3,4,6,7,8-HpCDD	8.85e+04	0.96	y	44:08	1.17	15.6	J	2.50	-	-	*
OCDD	4.35e+05	1.01	y	49:41	1.21	98.5		2.50	-	-	*
2,3,7,8-TCDF	*	*	n	NotFnd	1.29	*		2.50	491	857	0.800
1,2,3,7,8-PeCDF	*	*	n	NotFnd	0.89	*		2.50	427	585	1.36
2,3,4,7,8-PeCDF	*	*	n	NotFnd	0.91	*		2.50	427	585	1.36
1,2,3,4,7,8-HxCDF	*	*	n	NotFnd	1.00	*		2.50	700	581	1.86
1,2,3,6,7,8-HxCDF	*	*	n	NotFnd	0.92	*		2.50	700	581	1.96
2,3,4,6,7,8-HxCDF	*	*	n	NotFnd	0.99	*		2.50	700	581	2.20
1,2,3,7,8,9-HxCDF	*	*	n	NotFnd	1.09	*		2.50	700	581	2.32
1,2,3,4,6,7,8-HpCDF	2.62e+04	0.96	y	42:14	1.36	3.47	J	2.50	-	-	*
1,2,3,4,7,8,9-HpCDF	*	*	n	NotFnd	1.61	*		2.50	432	287	1.53
OCDF	3.75e+04	0.94	y	50:02	0.84	7.52	J	2.50	-	-	*
											Rec
13C-2,3,7,8-TCDD	1.70e+07	0.72	y	27:19	0.94	1860					93.8
13C-1,2,3,7,8-PeCDD	1.52e+07	1.63	y	33:08	1.02	1550					78.1
13C-1,2,3,4,7,8-HxCDD	1.01e+07	1.33	y	38:30	0.98	1750					88.1
13C-1,2,3,6,7,8-HxCDD	9.77e+06	1.33	y	38:41	0.94	1780					89.6
13C-1,2,3,4,6,7,8-HpCDD	9.67e+06	1.05	y	44:07	0.90	1830					92.4
13C-OCDD	1.44e+07	1.00	y	49:39	0.67	3700					93.0
13C-2,3,7,8-TCDF	2.84e+07	0.81	y	26:34	0.88	1920					96.6
13C-1,2,3,7,8-PeCDF	2.09e+07	1.66	y	31:24	0.88	1410					71.2
13C-2,3,4,7,8-PeCDF	2.04e+07	1.71	y	32:43	0.85	1420					71.7
13C-1,2,3,4,7,8-HxCDF	1.76e+07	0.49	y	37:07	1.72	1750					88.0
13C-1,2,3,6,7,8-HxCDF	2.01e+07	0.48	y	37:19	2.00	1720					86.4
13C-2,3,4,6,7,8-HxCDF	1.69e+07	0.48	y	38:15	1.74	1660					83.5
13C-1,2,3,7,8,9-HxCDF	1.49e+07	0.49	y	39:42	1.51	1690					84.9
13C-1,2,3,4,6,7,8-HpCDF	1.10e+07	0.48	y	42:13	1.10	1710					86.3
13C-1,2,3,4,7,8,9-HpCDF	8.94e+06	0.48	y	45:02	0.85	1800					90.8
13C-OCDF	2.35e+07	0.94	y	50:02	1.17	3420					86.0
37Cl-2,3,7,8-TCDD	6.44e+06			27:20	0.97	685					86.3
13C-1,2,3,4-TCDD	1.92e+07	0.74	y	26:45	-	72.8					
13C-1,2,3,4-TCDF	3.35e+07	0.82	y	25:28	-	72.0					
13C-1,2,3,7,8,9-HxCDD	1.16e+07	1.29	y	39:07	-	56.3					

				Fac	Noise-1	Noise-2	DL		#Hom
Total Tetra-Dioxins	*	NotFnd	1.02	*	2.50	489	516	1.27		0
Total Penta-Dioxins	*	NotFnd	0.96	*	2.50	464	288	1.33		0
Total Hexa-Dioxins	*	NotFnd	1.36	*	2.50	741	583	2.90		0
Total Hepta-Dioxins	1.73e+05	42:45	1.17	30.5	2.50	-	-	*		2
Total Tetra-Furans	*	NotFnd	1.29	*	2.50	491	857	0.800		0
1st Fn. Tot Penta-Furans	*	NotFnd	0.90	*	2.50	427	585	1.36	PeCDF	0
Total Penta-Furans	*	NotFnd	0.90	*	2.50	427	585	1.36	*	0
Total Hexa-Furans	*	NotFnd	0.99	*	2.50	700	581	2.32		0
Total Hepta-Furans	5.79e+04	42:14	1.47	7.76	J 2.50	-	-	*		2

Analyst: _____ Date: 3/11/10

Totals class: Total Hepta-Dioxins Entry #: 41

Run: 20 File: 10MAR10M S: 14 I: 1 F: 4
Acquired: 11-MAR-10 01:42:44

Total Concentration: 30.5 Unnamed Concentration: 14.868

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
42:45	3.99e+04	4.46e+04	0.89 y	8.44e+04	14.9	
44:08	4.35e+04	4.51e+04	0.96 y	8.85e+04	15.6	1,2,3,4,6,7,8-HpCDD

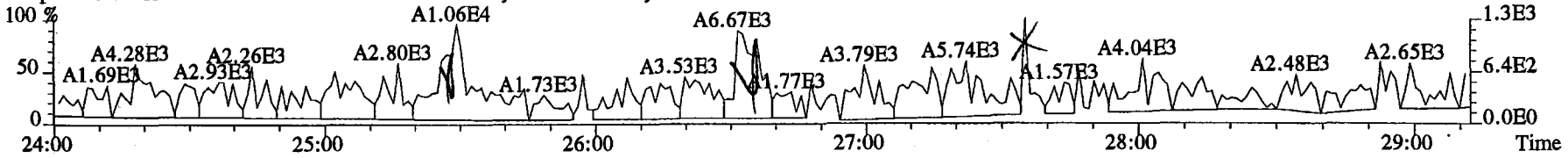
Totals class: Total Hepta-Furans Entry #: 46

Run: 20 File: 10MAR10M S: 14 I: 1 F: 4
Acquired: 11-MAR-10 01:42:44

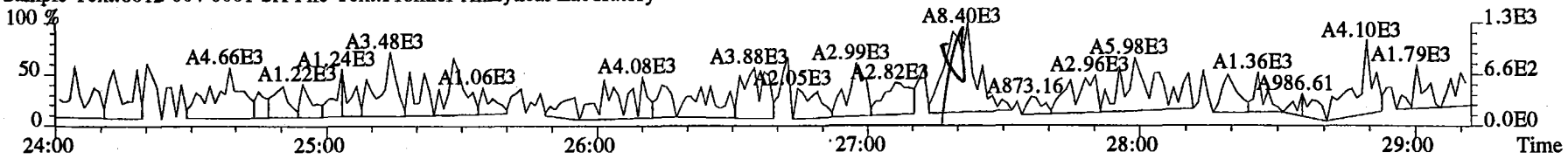
Total Concentration: 7.76 Unnamed Concentration: 4.295

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
42:14	1.29e+04	1.33e+04	0.96 y	2.62e+04	3.47	1,2,3,4,6,7,8-HpCDF
43:05	1.50e+04	1.67e+04	0.90 y	3.17e+04	4.29	

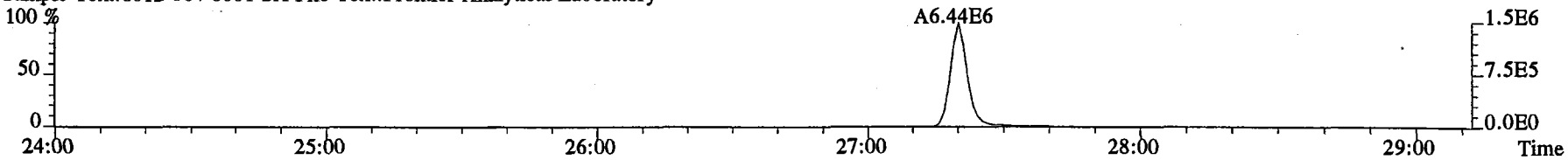
File:10MAR10M #1-390 Acq:11-MAR-2010 01:42:44 GC EI+ Voltage SIR Autospec-Ultima
319.8965 S:14 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-004-0001-SA File Text:Frontier Analytical Laboratory



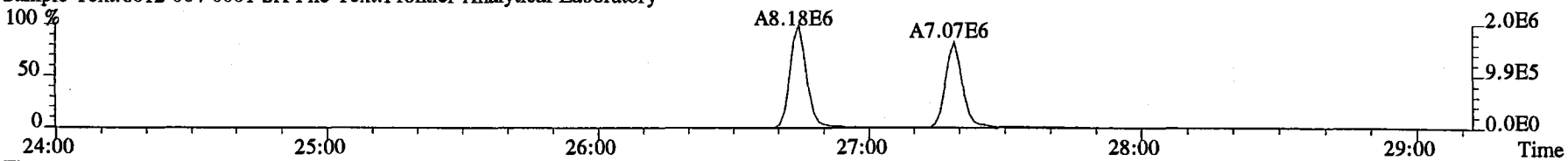
File:10MAR10M #1-390 Acq:11-MAR-2010 01:42:44 GC EI+ Voltage SIR Autospec-Ultima
321.8936 S:14 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-004-0001-SA File Text:Frontier Analytical Laboratory



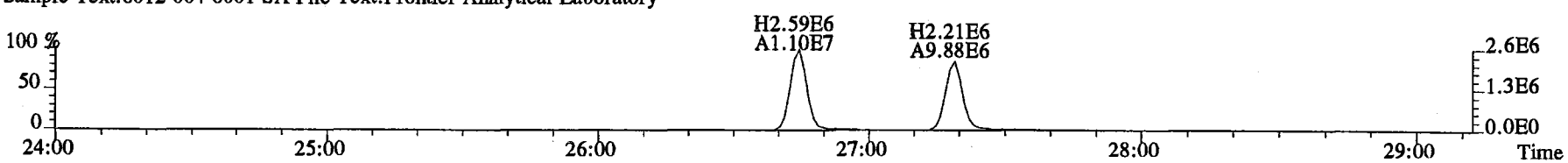
File:10MAR10M #1-390 Acq:11-MAR-2010 01:42:44 GC EI+ Voltage SIR Autospec-Ultima
327.8847 S:14 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-004-0001-SA File Text:Frontier Analytical Laboratory



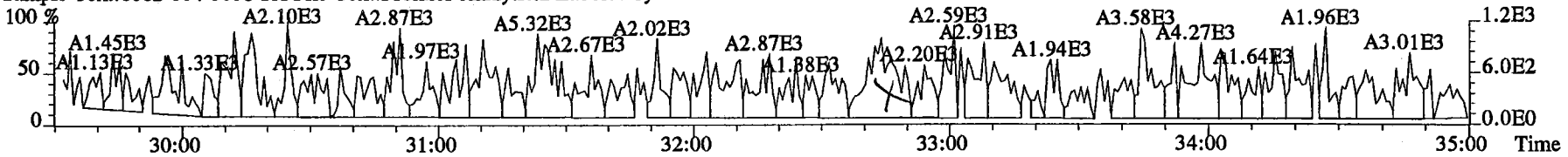
File:10MAR10M #1-390 Acq:11-MAR-2010 01:42:44 GC EI+ Voltage SIR Autospec-Ultima
331.9368 S:14 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-004-0001-SA File Text:Frontier Analytical Laboratory



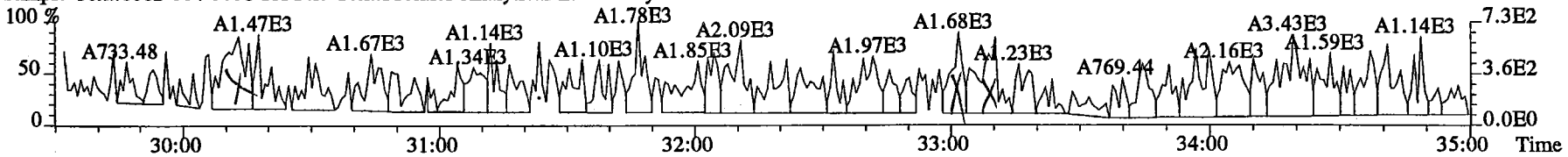
File:10MAR10M #1-390 Acq:11-MAR-2010 01:42:44 GC EI+ Voltage SIR Autospec-Ultima
333.9339 S:14 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-004-0001-SA File Text:Frontier Analytical Laboratory



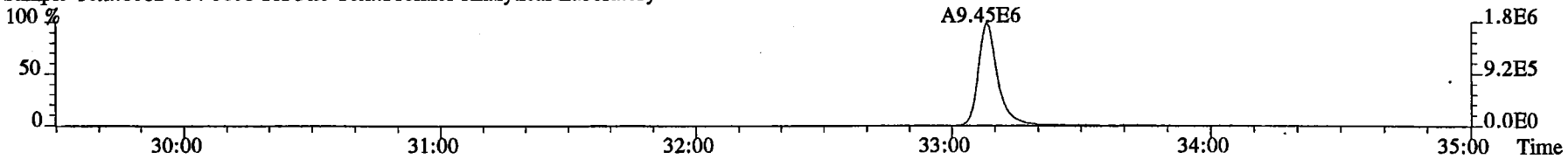
File:10MAR10M #1-425 Acq:11-MAR-2010 01:42:44 GC EI+ Voltage SIR Autospec-Ultima
355.8546 S:14 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-004-0001-SA File Text:Frontier Analytical Laboratory



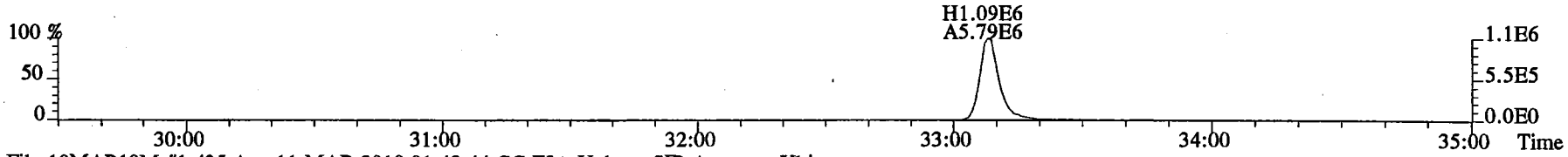
File:10MAR10M #1-425 Acq:11-MAR-2010 01:42:44 GC EI+ Voltage SIR Autospec-Ultima
357.8517 S:14 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-004-0001-SA File Text:Frontier Analytical Laboratory



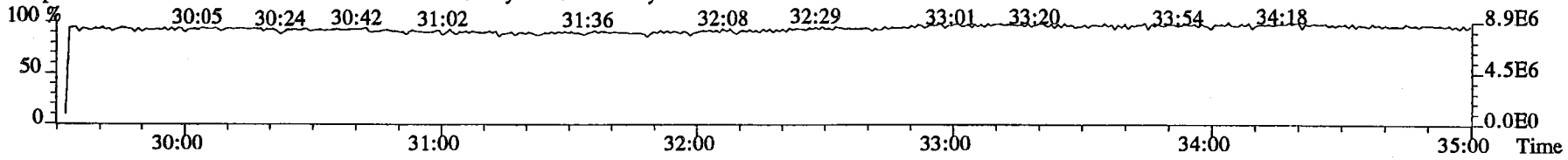
File:10MAR10M #1-425 Acq:11-MAR-2010 01:42:44 GC EI+ Voltage SIR Autospec-Ultima
367.8949 S:14 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-004-0001-SA File Text:Frontier Analytical Laboratory



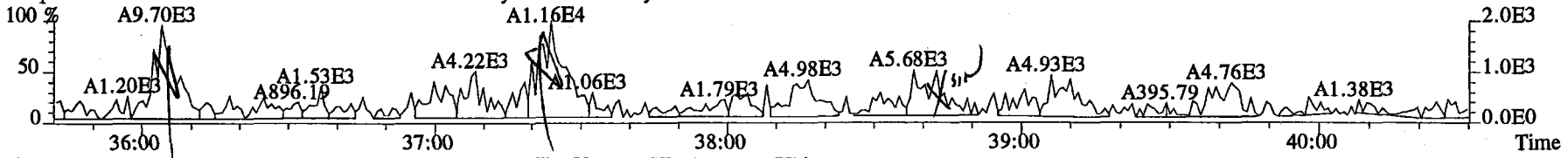
File:10MAR10M #1-425 Acq:11-MAR-2010 01:42:44 GC EI+ Voltage SIR Autospec-Ultima
369.8919 S:14 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-004-0001-SA File Text:Frontier Analytical Laboratory



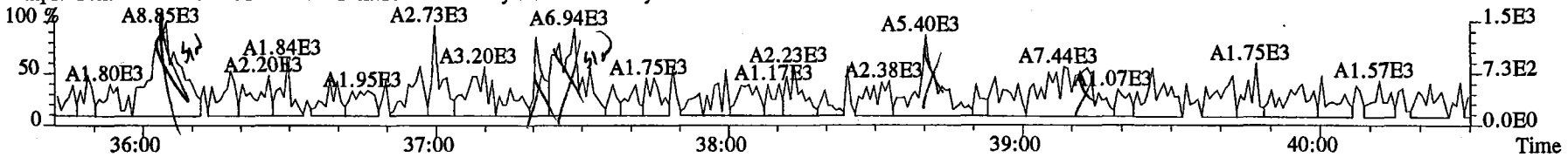
File:10MAR10M #1-425 Acq:11-MAR-2010 01:42:44 GC EI+ Voltage SIR Autospec-Ultima
366.9792 S:14 F:2 Exp:PCDD
Sample Text:6012-004-0001-SA File Text:Frontier Analytical Laboratory



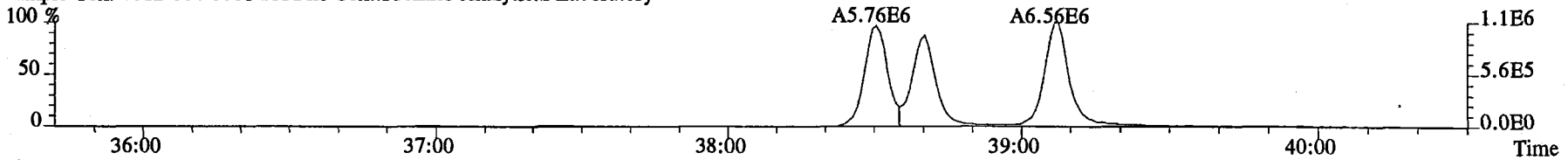
File:10MAR10M #1-464 Acq:11-MAR-2010 01:42:44 GC EI+ Voltage SIR Autospec-Ultima
389.8156 S:14 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-004-0001-SA File Text:Frontier Analytical Laboratory



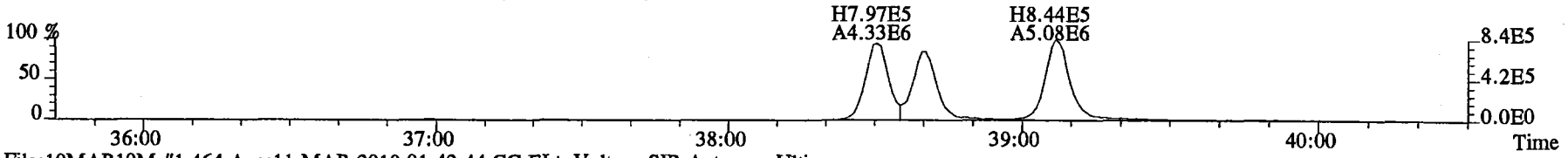
File:10MAR10M #1-464 Acq:11-MAR-2010 01:42:44 GC EI+ Voltage SIR Autospec-Ultima
391.8127 S:14 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-004-0001-SA File Text:Frontier Analytical Laboratory



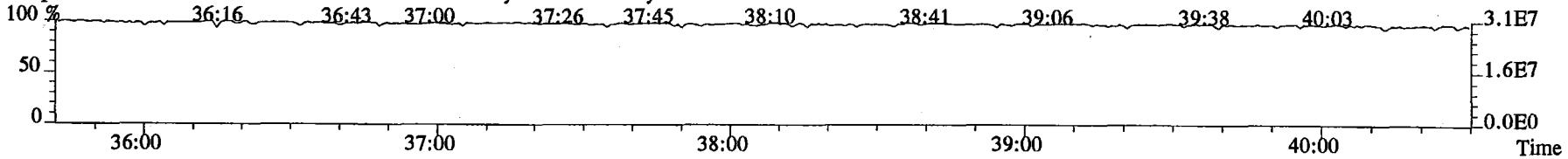
File:10MAR10M #1-464 Acq:11-MAR-2010 01:42:44 GC EI+ Voltage SIR Autospec-Ultima
401.8559 S:14 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-004-0001-SA File Text:Frontier Analytical Laboratory



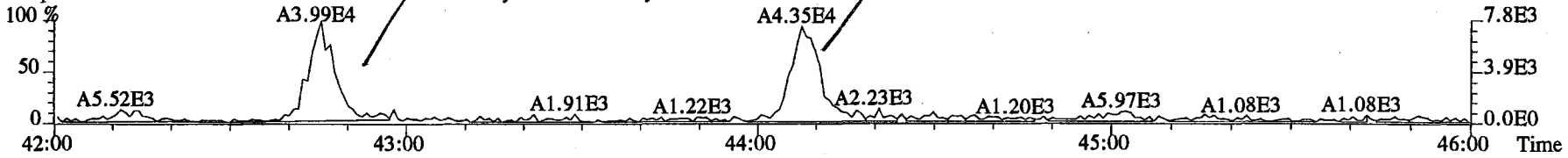
File:10MAR10M #1-464 Acq:11-MAR-2010 01:42:44 GC EI+ Voltage SIR Autospec-Ultima
403.8530 S:14 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-004-0001-SA File Text:Frontier Analytical Laboratory



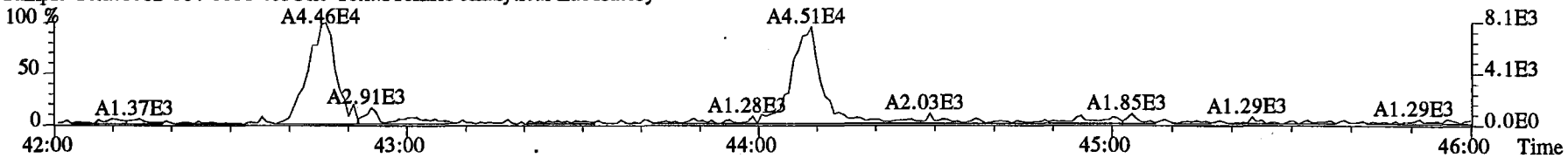
File:10MAR10M #1-464 Acq:11-MAR-2010 01:42:44 GC EI+ Voltage SIR Autospec-Ultima
380.9760 S:14 F:3 Exp:PCDD
Sample Text:6012-004-0001-SA File Text:Frontier Analytical Laboratory



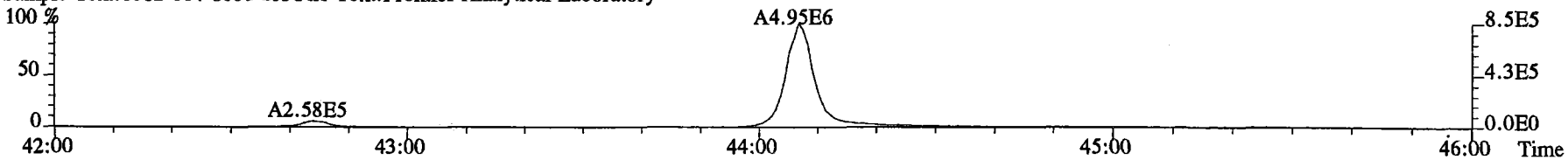
File:10MAR10M #1-541 Acq:11-MAR-2010 01:42:44 GC EI+ Voltage SIR Autospec-Ultima
423.7767 S:14 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-004-0001-SA File Text:Frontier Analytical Laboratory



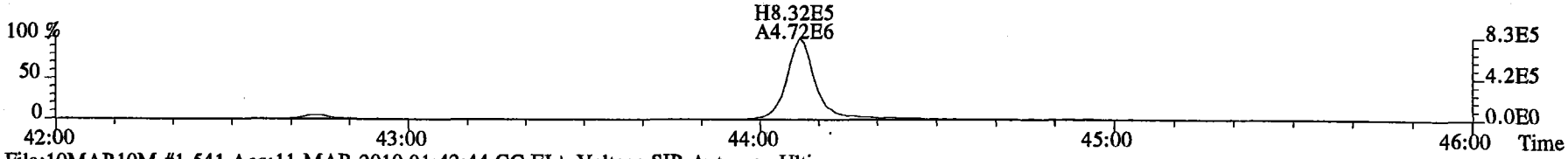
File:10MAR10M #1-541 Acq:11-MAR-2010 01:42:44 GC EI+ Voltage SIR Autospec-Ultima
425.7737 S:14 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-004-0001-SA File Text:Frontier Analytical Laboratory



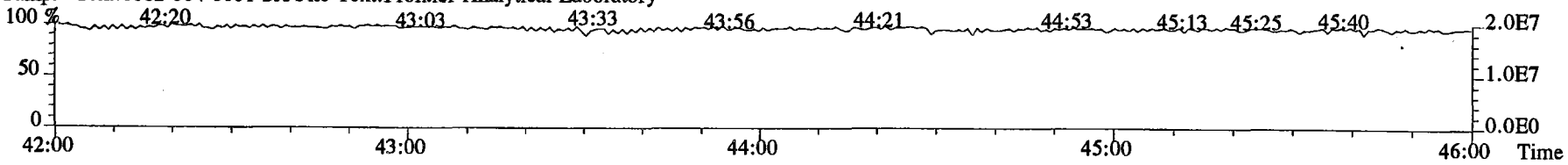
File:10MAR10M #1-541 Acq:11-MAR-2010 01:42:44 GC EI+ Voltage SIR Autospec-Ultima
435.8169 S:14 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-004-0001-SA File Text:Frontier Analytical Laboratory



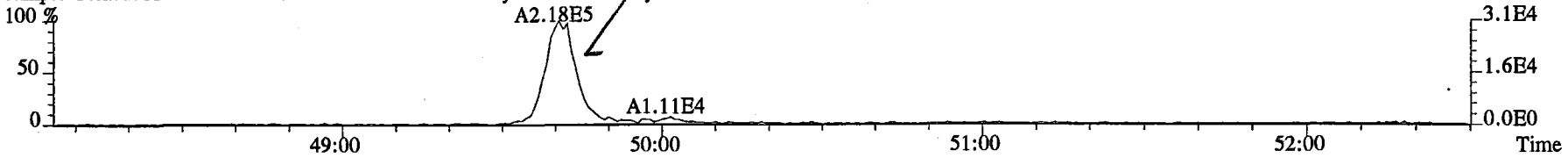
File:10MAR10M #1-541 Acq:11-MAR-2010 01:42:44 GC EI+ Voltage SIR Autospec-Ultima
437.8140 S:14 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-004-0001-SA File Text:Frontier Analytical Laboratory



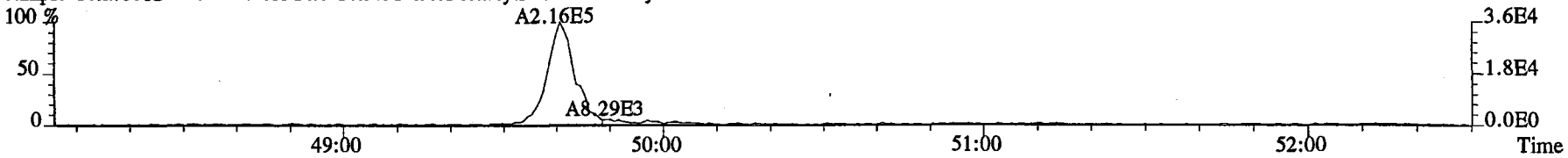
File:10MAR10M #1-541 Acq:11-MAR-2010 01:42:44 GC EI+ Voltage SIR Autospec-Ultima
430.9728 S:14 F:4 Exp:PCDD
Sample Text:6012-004-0001-SA File Text:Frontier Analytical Laboratory



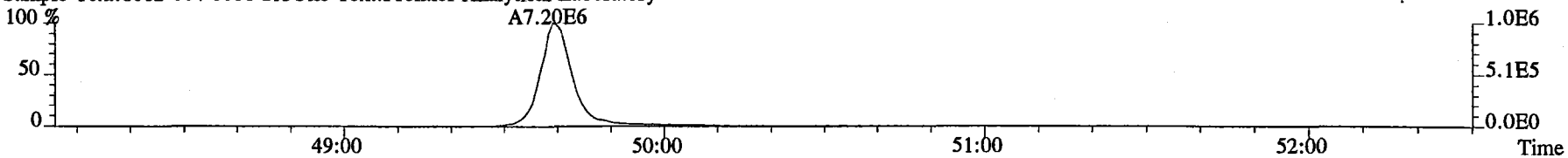
File:10MAR10M #1-347 Acq:11-MAR-2010 01:42:44 GC EI+ Voltage SIR Autospec-Ultima
457.7377 S:14 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-004-0001-SA File Text:Frontier Analytical Laboratory



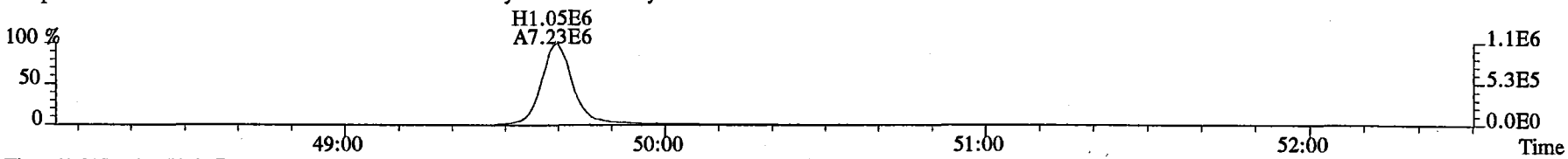
File:10MAR10M #1-347 Acq:11-MAR-2010 01:42:44 GC EI+ Voltage SIR Autospec-Ultima
459.7348 S:14 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-004-0001-SA File Text:Frontier Analytical Laboratory



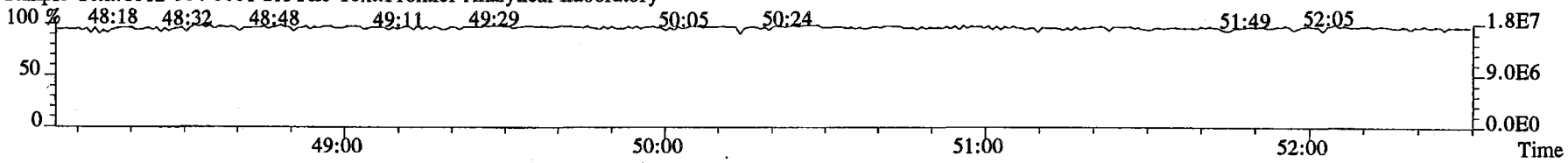
File:10MAR10M #1-347 Acq:11-MAR-2010 01:42:44 GC EI+ Voltage SIR Autospec-Ultima
469.7780 S:14 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-004-0001-SA File Text:Frontier Analytical Laboratory



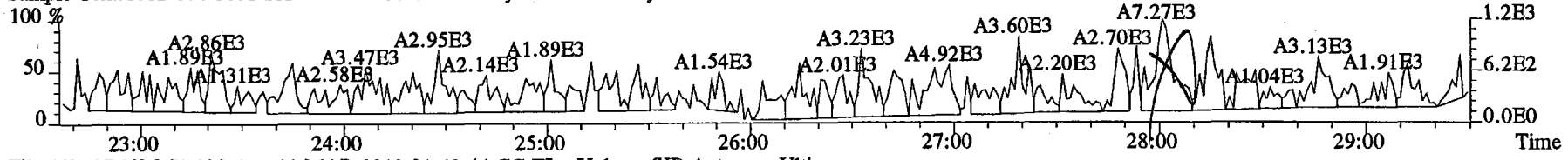
File:10MAR10M #1-347 Acq:11-MAR-2010 01:42:44 GC EI+ Voltage SIR Autospec-Ultima
471.7750 S:14 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-004-0001-SA File Text:Frontier Analytical Laboratory



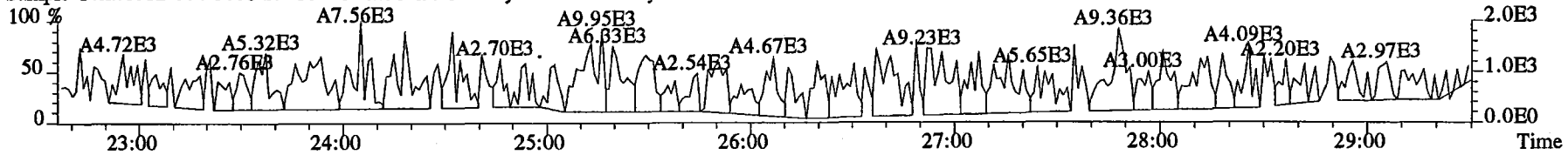
File:10MAR10M #1-347 Acq:11-MAR-2010 01:42:44 GC EI+ Voltage SIR Autospec-Ultima
454.9728 S:14 F:5 Exp:PCDD
Sample Text:6012-004-0001-SA File Text:Frontier Analytical Laboratory



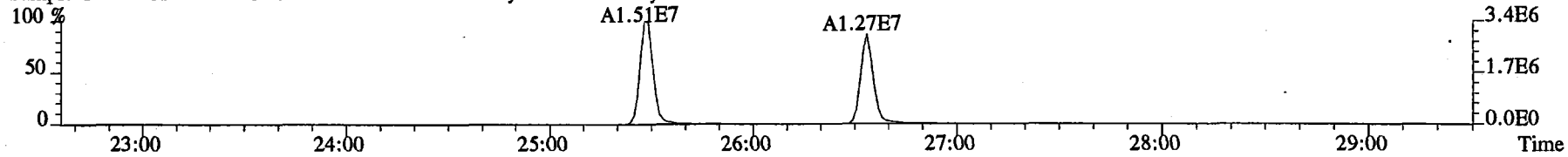
File:10MAR10M #1-390 Acq:11-MAR-2010 01:42:44 GC EI+ Voltage SIR Autospec-Ultima
303.9016 S:14 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-004-0001-SA File Text:Frontier Analytical Laboratory



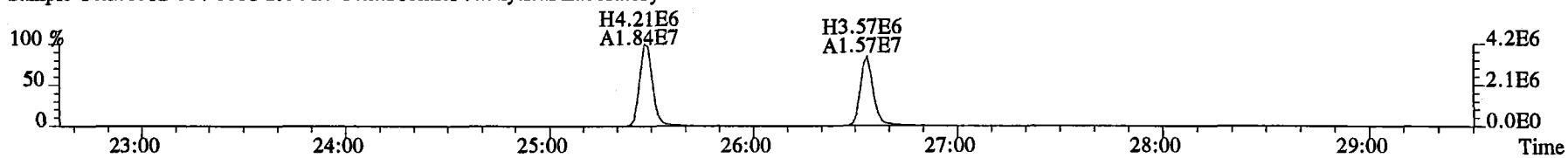
File:10MAR10M #1-390 Acq:11-MAR-2010 01:42:44 GC EI+ Voltage SIR Autospec-Ultima
305.8987 S:14 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-004-0001-SA File Text:Frontier Analytical Laboratory



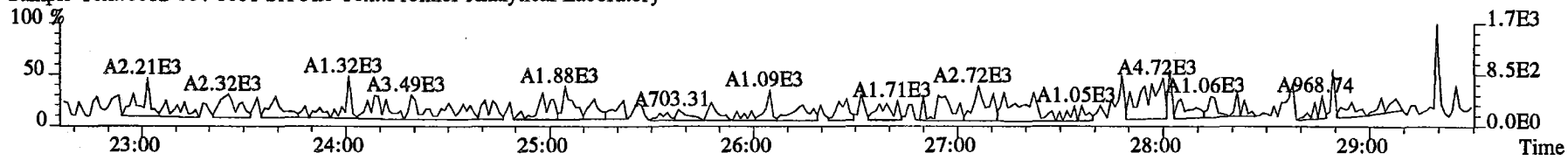
File:10MAR10M #1-390 Acq:11-MAR-2010 01:42:44 GC EI+ Voltage SIR Autospec-Ultima
315.9419 S:14 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-004-0001-SA File Text:Frontier Analytical Laboratory



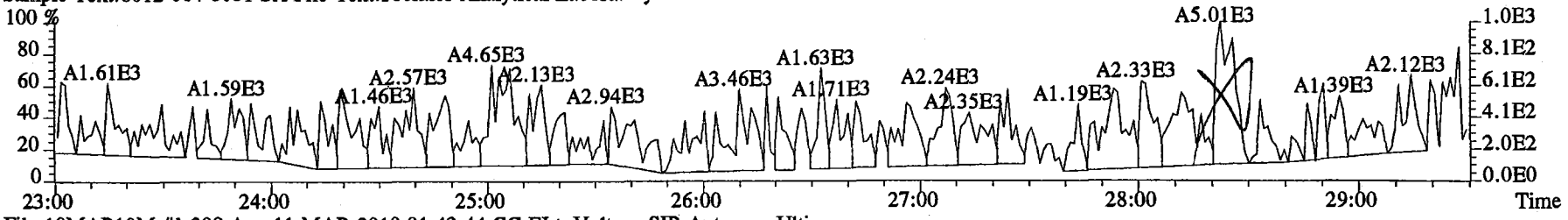
File:10MAR10M #1-390 Acq:11-MAR-2010 01:42:44 GC EI+ Voltage SIR Autospec-Ultima
317.9389 S:14 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-004-0001-SA File Text:Frontier Analytical Laboratory



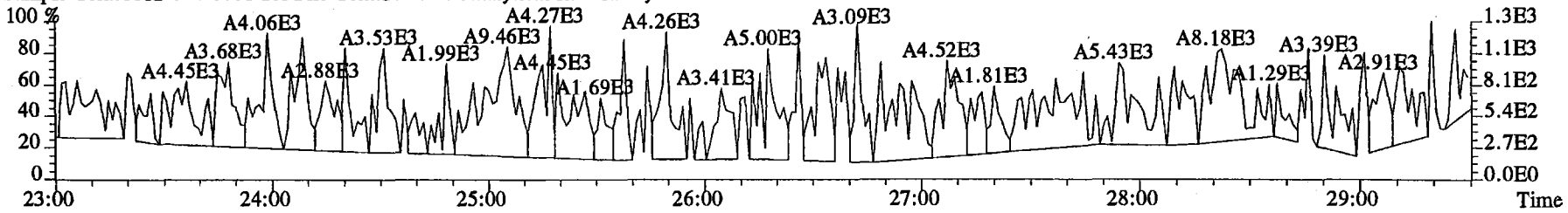
File:10MAR10M #1-390 Acq:11-MAR-2010 01:42:44 GC EI+ Voltage SIR Autospec-Ultima
375.8364 S:14 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-004-0001-SA File Text:Frontier Analytical Laboratory



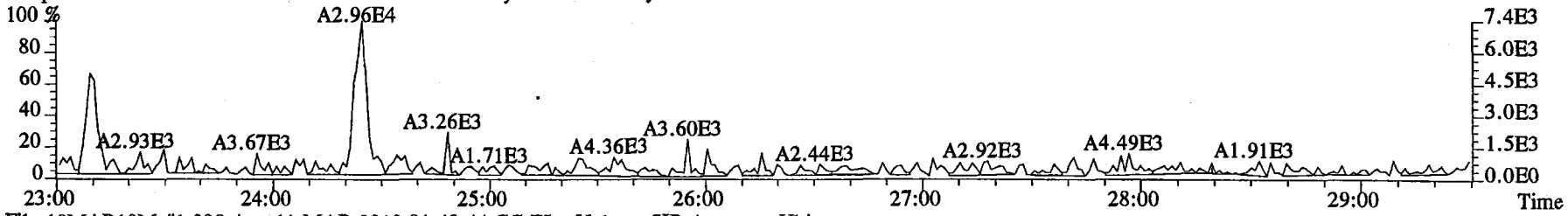
File:10MAR10M #1-390 Acq:11-MAR-2010 01:42:44 GC EI+ Voltage SIR Autospec-Ultima
339.8597 S:14 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-004-0001-SA File Text:Frontier Analytical Laboratory



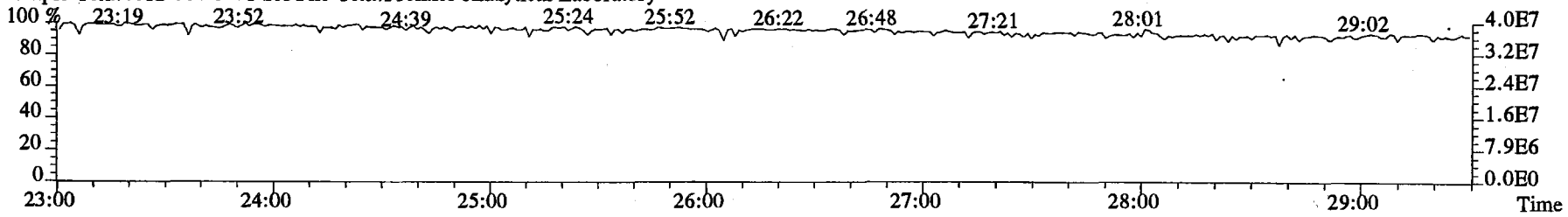
File:10MAR10M #1-390 Acq:11-MAR-2010 01:42:44 GC EI+ Voltage SIR Autospec-Ultima
341.8568 S:14 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-004-0001-SA File Text:Frontier Analytical Laboratory



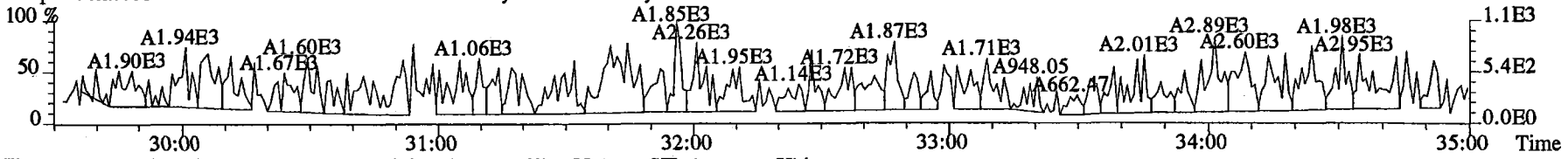
File:10MAR10M #1-390 Acq:11-MAR-2010 01:42:44 GC EI+ Voltage SIR Autospec-Ultima
409.7974 S:14 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-004-0001-SA File Text:Frontier Analytical Laboratory



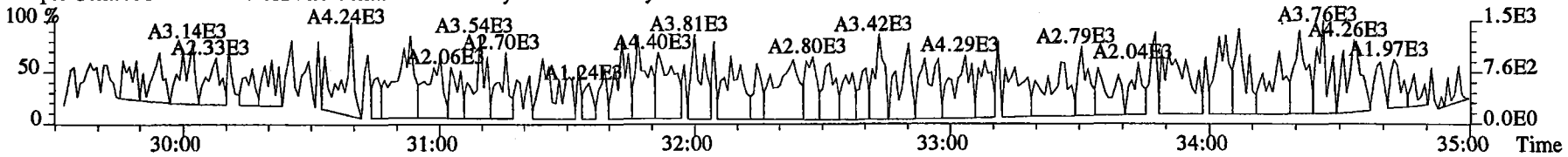
File:10MAR10M #1-390 Acq:11-MAR-2010 01:42:44 GC EI+ Voltage SIR Autospec-Ultima
330.9792 S:14 Exp:PCDD
Sample Text:6012-004-0001-SA File Text:Frontier Analytical Laboratory



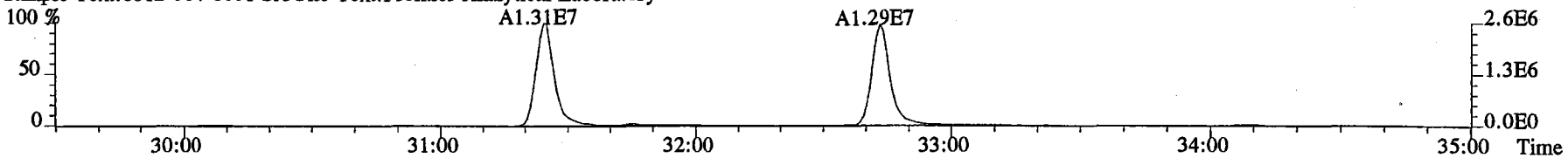
File:10MAR10M #1-425 Acq:11-MAR-2010 01:42:44 GC EI+ Voltage SIR Autospec-Ultima
339.8597 S:14 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-004-0001-SA File Text:Frontier Analytical Laboratory



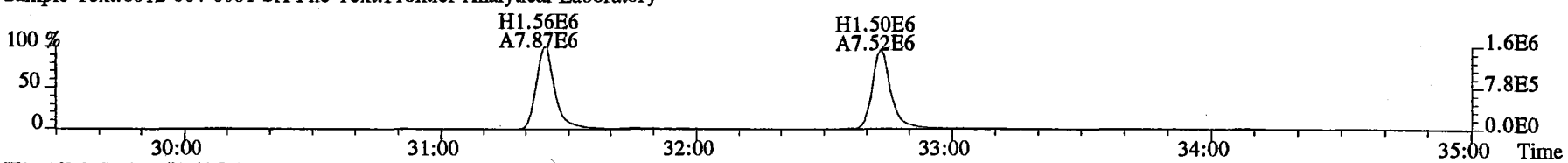
File:10MAR10M #1-425 Acq:11-MAR-2010 01:42:44 GC EI+ Voltage SIR Autospec-Ultima
341.8568 S:14 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-004-0001-SA File Text:Frontier Analytical Laboratory



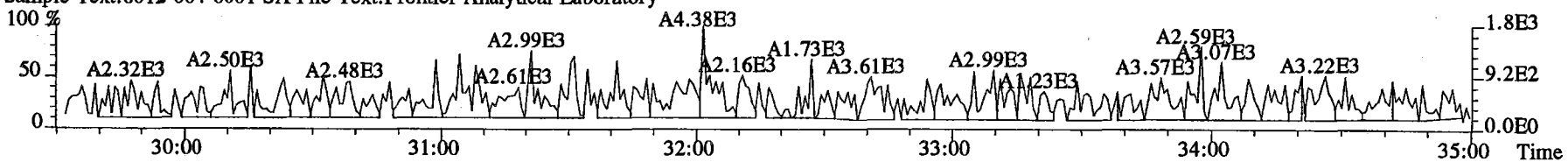
File:10MAR10M #1-425 Acq:11-MAR-2010 01:42:44 GC EI+ Voltage SIR Autospec-Ultima
351.9000 S:14 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-004-0001-SA File Text:Frontier Analytical Laboratory



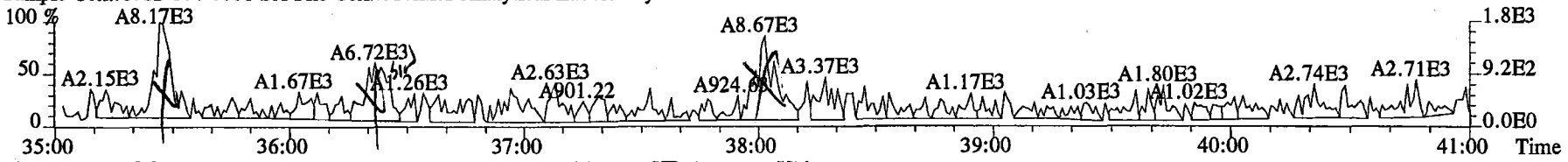
File:10MAR10M #1-425 Acq:11-MAR-2010 01:42:44 GC EI+ Voltage SIR Autospec-Ultima
353.8970 S:14 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-004-0001-SA File Text:Frontier Analytical Laboratory



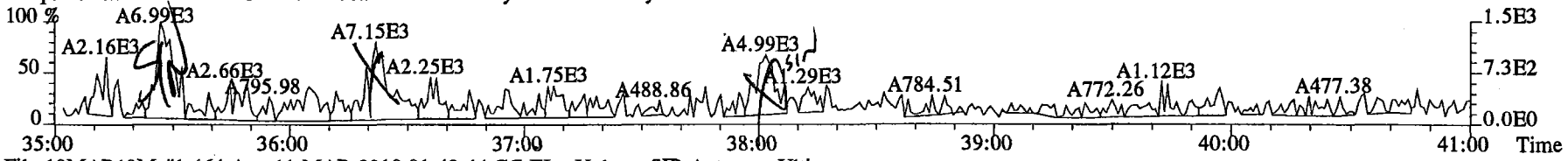
File:10MAR10M #1-425 Acq:11-MAR-2010 01:42:44 GC EI+ Voltage SIR Autospec-Ultima
409.7974 S:14 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-004-0001-SA File Text:Frontier Analytical Laboratory



File:10MAR10M #1-464 Acq:11-MAR-2010 01:42:44 GC EI+ Voltage SIR Autospec-Ultima
373.8207 S:14 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-004-0001-SA File Text:Frontier Analytical Laboratory



File:10MAR10M #1-464 Acq:11-MAR-2010 01:42:44 GC EI+ Voltage SIR Autospec-Ultima
375.8178 S:14 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-004-0001-SA File Text:Frontier Analytical Laboratory



File:10MAR10M #1-464 Acq:11-MAR-2010 01:42:44 GC EI+ Voltage SIR Autospec-Ultima
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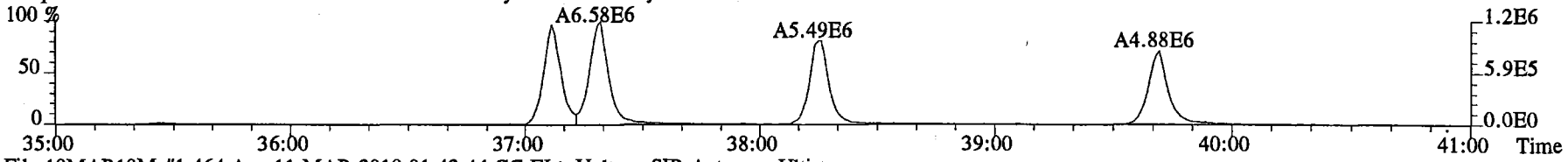
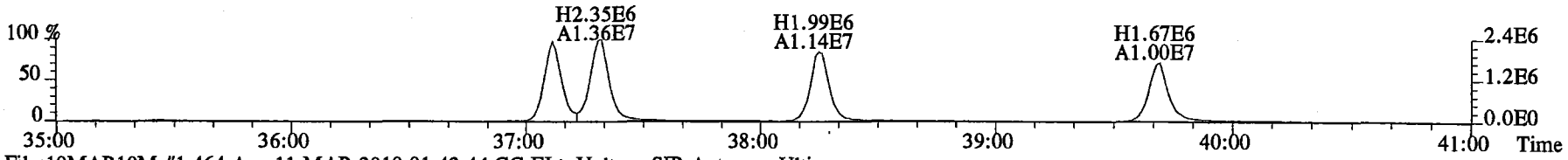
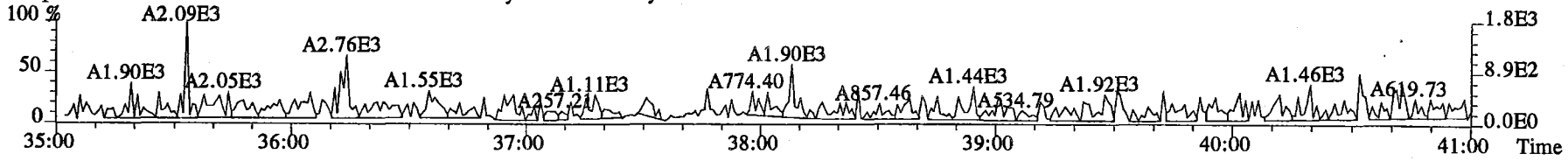
Sample Text:6012-004-0001-SA File Text:Frontier Analytical Laboratory



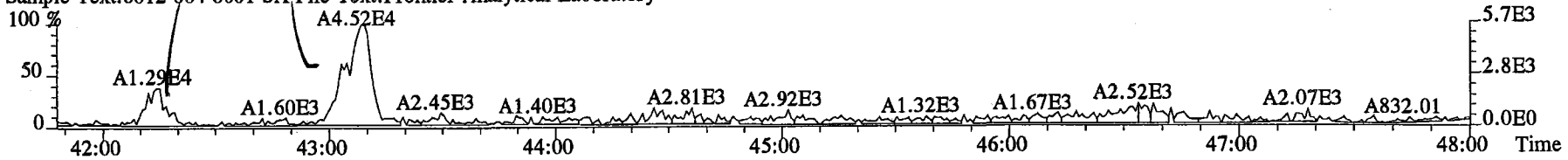
File:10MAR10M #1-464 Acq:11-MAR-2010 01:42:44 GC EI+ Voltage SIR Autospec-Ultima
385.8610 S:14 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-004-0001-SA File Text:Frontier Analytical Laboratory



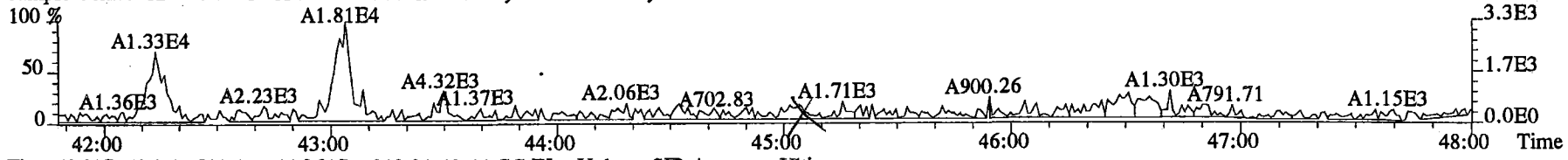
File:10MAR10M #1-464 Acq:11-MAR-2010 01:42:44 GC EI+ Voltage SIR Autospec-Ultima
445.7555 S:14 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-004-0001-SA File Text:Frontier Analytical Laboratory



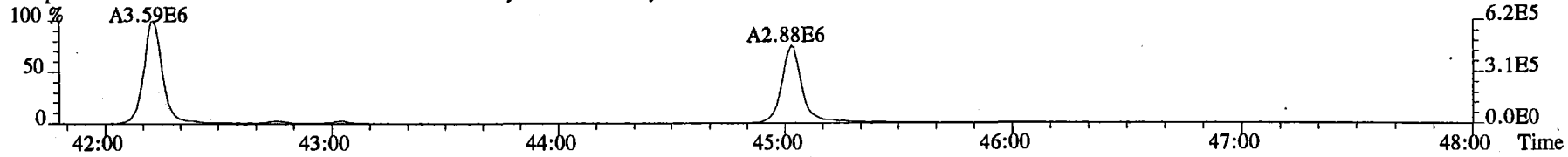
File:10MAR10M #1-541 Acq:11-MAR-2010 01:42:44 GC EI+ Voltage SIR Autospec-Ultima
407.7818 S:14 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-004-0001-SA File Text:Frontier Analytical Laboratory



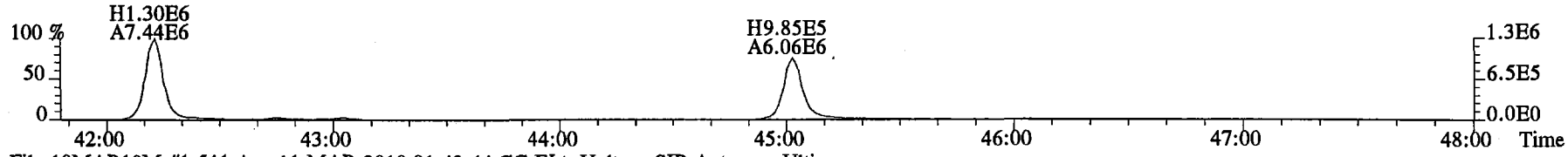
File:10MAR10M #1-541 Acq:11-MAR-2010 01:42:44 GC EI+ Voltage SIR Autospec-Ultima
409.7788 S:14 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-004-0001-SA File Text:Frontier Analytical Laboratory



File:10MAR10M #1-541 Acq:11-MAR-2010 01:42:44 GC EI+ Voltage SIR Autospec-Ultima
417.8253 S:14 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-004-0001-SA File Text:Frontier Analytical Laboratory



File:10MAR10M #1-541 Acq:11-MAR-2010 01:42:44 GC EI+ Voltage SIR Autospec-Ultima
419.8220 S:14 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-004-0001-SA File Text:Frontier Analytical Laboratory



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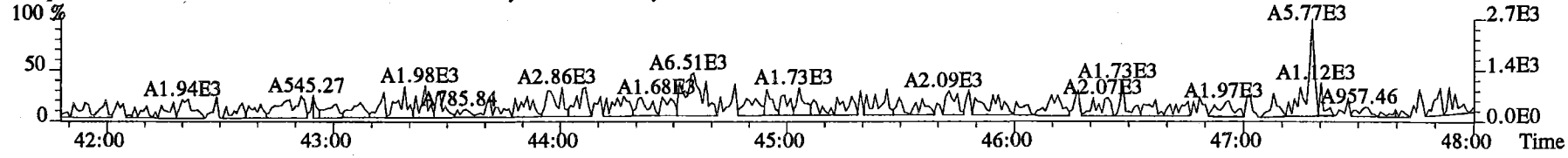
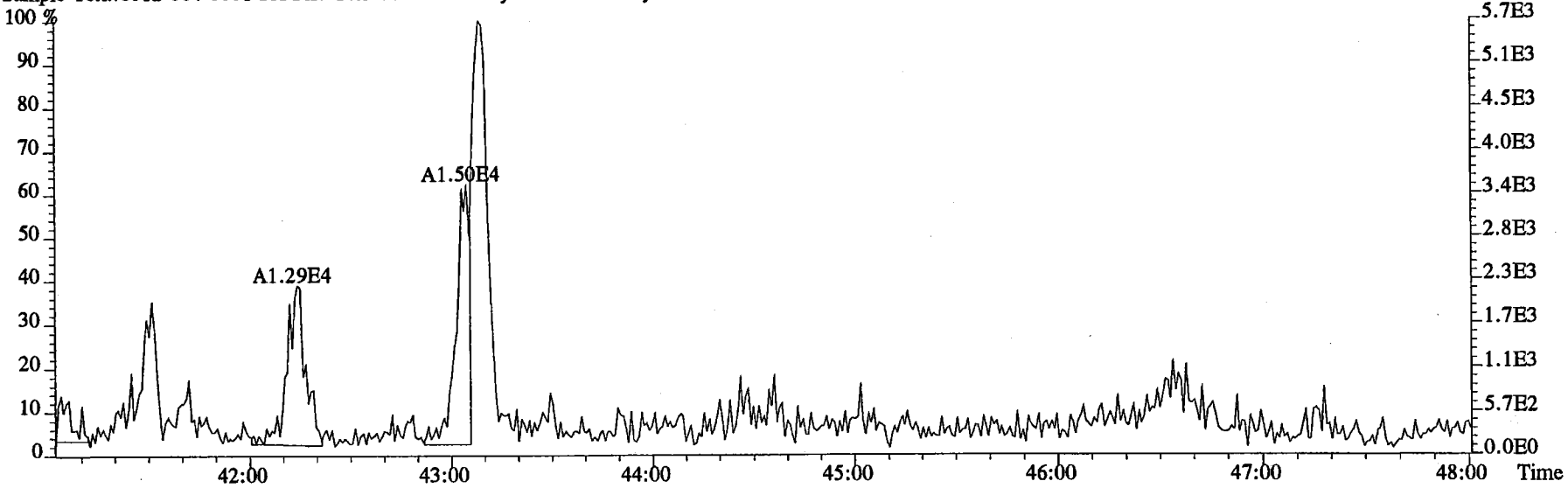
479.7165 S:14 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-004-0001-SA File Text:Frontier Analytical Laboratory



File:10MAR10M #1-541 Acq:11-MAR-2010 01:42:44 GC EI+ Voltage SIR Autospec-Ultima
407.7818 S:14 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-004-0001-SA File Text:Frontier Analytical Laboratory



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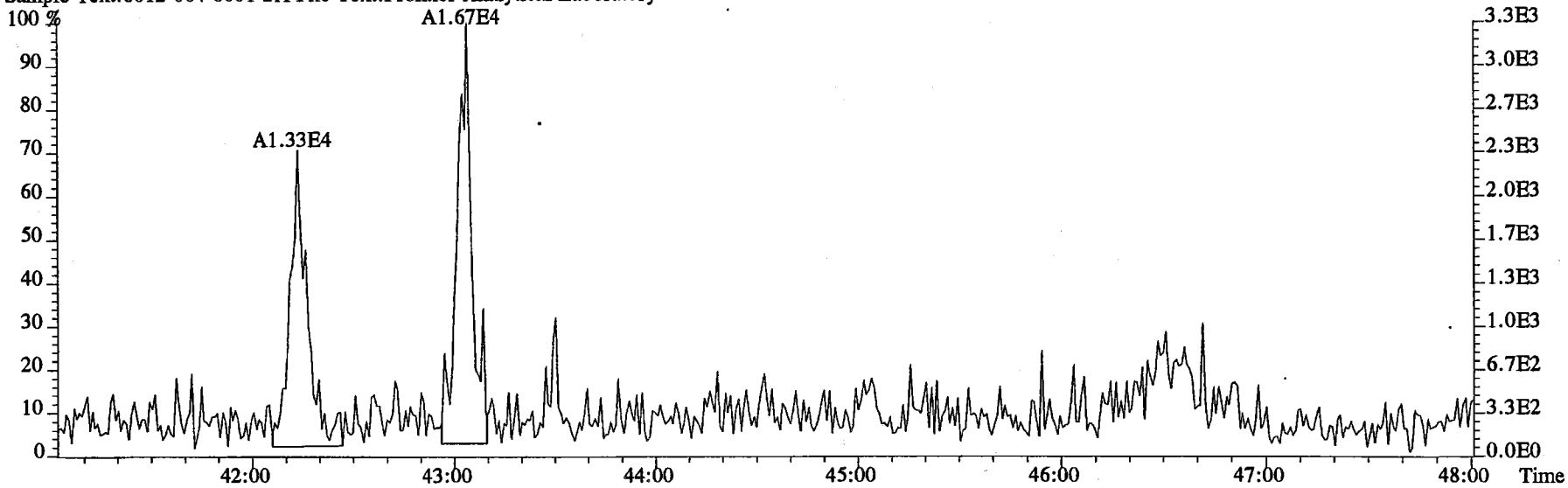
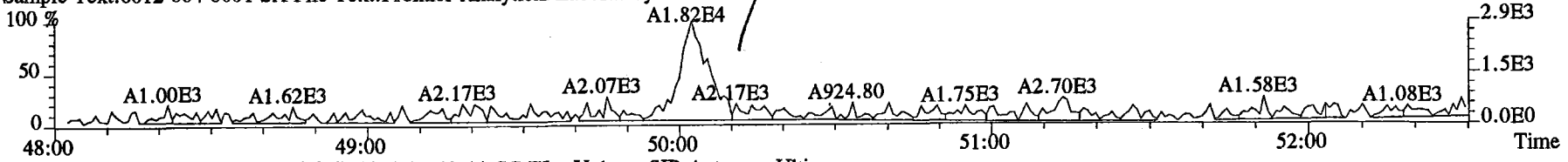
Sample Text:6012-004-0001-SA File Text:Frontier Analytical Laboratory



File:10MAR10M #1-347 Acq:11-MAR-2010 01:42:44 GC EI+ Voltage SIR Autospec-Ultima
441.7428 S:14 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-004-0001-SA File Text:Frontier Analytical Laboratory



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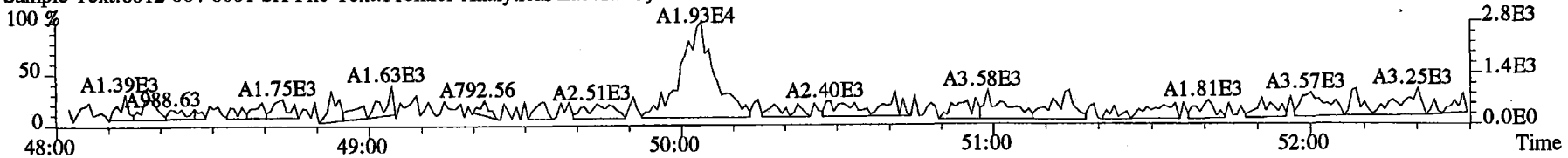
Sample Text:6012-004-0001-SA File Text:Frontier Analytical Laboratory



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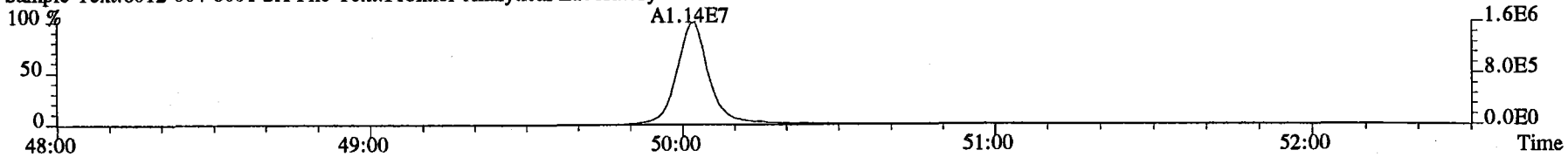
Sample Text:6012-004-0001-SA File Text:Frontier Analytical Laboratory



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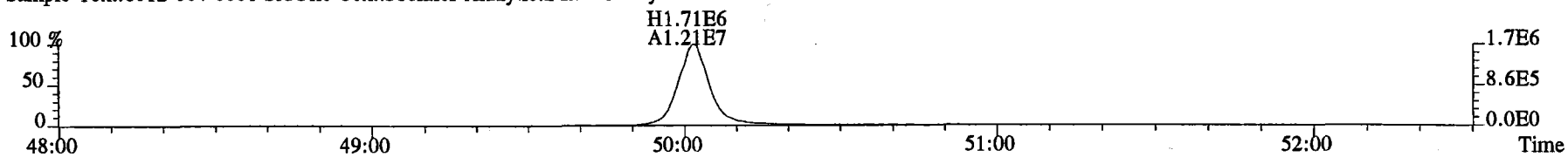
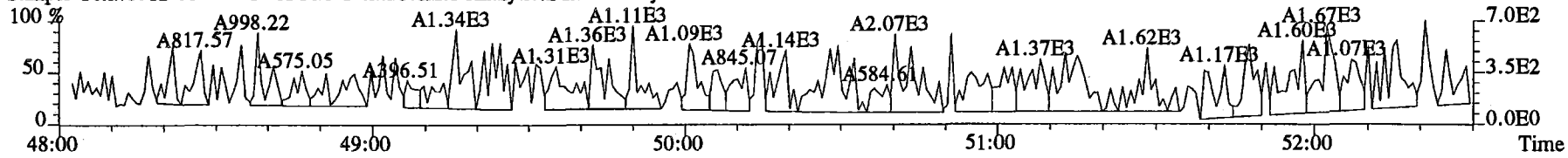


File:10MAR10M #1-347 Acq:11-MAR-2010 01:42:44 GC EI+ Voltage SIR Autospec-Ultima
513.6775 S:14 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6012-004-0001-SA File Text:Frontier Analytical Laboratory



Initial Calibration Results

Frontier Analytical Laboratory

Data Filename: 18NOV09M

Analyte: PCDDFAL3-11-18-09 Cal: PCDDFAL3-11-18-09

Name	RRF	S. D.	%RSD	S2 RRF#1	S3 RRF#2	S4 RRF#3	S1 RRF#4	S5 RRF#5	S6 RRF#6
2,3,7,8-TCDD	1.02	0.0735	7.22 %	1.00	0.93	0.95	1.04	1.07	1.12
1,2,3,7,8-PeCDD	0.96	0.0778	8.09 %	0.88	0.88	0.93	0.99	1.02	1.07
1,2,3,4,7,8-HxCDD	1.37	0.110	8.00 %	1.26	1.27	1.31	1.41	1.48	1.52
1,2,3,6,7,8-HxCDD	1.34	0.0611	4.55 %	1.26	1.33	1.30	1.35	1.40	1.42
1,2,3,7,8,9-HxCDD	1.37	0.0751	5.49 %	1.32	1.27	1.32	1.40	1.43	1.47
1,2,3,4,6,7,8-HpCDD	1.17	0.0712	6.10 %	1.12	1.09	1.12	1.16	1.25	1.26
OCDD	1.21	0.113	9.27 %	1.09	1.11	1.17	1.23	1.34	1.35
2,3,7,8-TCDF	1.29	0.0564	4.39 %	1.22	1.28	1.25	1.26	1.31	1.38
1,2,3,7,8-PeCDF	0.89	0.0808	9.08 %	0.79	0.81	0.85	0.94	0.96	0.98
2,3,4,7,8-PeCDF	0.91	0.0710	7.85 %	0.83	0.84	0.87	0.92	0.98	1.00
1,2,3,4,7,8-HxCDF	1.00	0.0925	9.26 %	0.89	0.91	0.97	1.03	1.08	1.11
1,2,3,6,7,8-HxCDF	0.92	0.0747	8.16 %	0.82	0.86	0.88	0.93	0.99	1.01
2,3,4,6,7,8-HxCDF	0.99	0.0785	7.97 %	0.91	0.90	0.95	1.00	1.06	1.09
1,2,3,7,8,9-HxCDF	1.09	0.0901	8.28 %	0.98	1.01	1.06	1.11	1.17	1.20
1,2,3,4,6,7,8-HpCDF	1.36	0.131	9.61 %	1.22	1.22	1.31	1.39	1.50	1.51
1,2,3,4,7,8,9-HpCDF	1.61	0.159	9.90 %	1.49	1.44	1.50	1.62	1.77	1.82
OCDF	0.84	0.0791	9.39 %	0.75	0.76	0.81	0.86	0.93	0.93
13C-2,3,7,8-TCDD	0.94	0.0249	2.65 %	0.92	0.91	0.93	0.96	0.95	0.98
13C-1,2,3,7,8-PeCDD	1.02	0.0718	7.06 %	0.99	0.93	1.00	1.00	1.02	1.15
13C-1,2,3,4,7,8-HxCDD	0.98	0.0126	1.28 %	0.99	0.97	1.00	0.99	0.98	0.97
13C-1,2,3,6,7,8-HxCDD	0.94	0.0188	2.01 %	0.93	0.93	0.96	0.94	0.95	0.91
13C-1,2,3,4,6,7,8-HpCDD	0.90	0.0218	2.42 %	0.92	0.89	0.87	0.91	0.89	0.92
13C-OCDD	0.67	0.0306	4.59 %	0.69	0.66	0.62	0.69	0.64	0.70
13C-2,3,7,8-TCDF	0.88	0.0307	3.49 %	0.85	0.85	0.86	0.88	0.92	0.91
13C-1,2,3,7,8-PeCDF	0.88	0.0612	6.98 %	0.83	0.79	0.87	0.88	0.92	0.96
13C-2,3,4,7,8-PeCDF	0.85	0.0560	6.60 %	0.83	0.76	0.85	0.85	0.88	0.93
13C-1,2,3,4,7,8-HxCDF	1.72	0.0550	3.20 %	1.74	1.75	1.75	1.71	1.75	1.61
13C-1,2,3,6,7,8-HxCDF	2.00	0.0743	3.71 %	2.01	2.02	2.06	2.01	2.05	1.86
13C-2,3,4,6,7,8-HxCDF	1.74	0.0562	3.24 %	1.74	1.73	1.79	1.77	1.75	1.63
13C-1,2,3,7,8,9-HxCDF	1.51	0.0258	1.71 %	1.51	1.47	1.48	1.54	1.53	1.51
13C-1,2,3,4,6,7,8-HpCDF	1.10	0.0153	1.39 %	1.12	1.10	1.08	1.10	1.08	1.11
13C-1,2,3,4,7,8,9-HpCDF	0.85	0.0310	3.67 %	0.82	0.84	0.81	0.87	0.84	0.89
13C-OCDF	1.17	0.0555	4.73 %	1.18	1.15	1.10	1.21	1.14	1.26
37Cl-2,3,7,8-TCDD	0.97	0.0838	8.61 %	0.90	0.93	0.90	0.98	1.03	1.11
13C-1,2,3,4-TCDD	-	-	- %	-	-	-	-	-	-
13C-1,2,3,4-TCDF	-	-	- %	-	-	-	-	-	-
13C-1,2,3,7,8,9-HxCDD	-	-	- %	-	-	-	-	-	-
Total Tetra-Dioxins	1.02	0.0735	7.22 %	1.00	0.93	0.95	1.04	1.07	1.12
Total Penta-Dioxins	0.96	0.0778	8.09 %	0.88	0.88	0.93	0.99	1.02	1.07
Total Hexa-Dioxins	1.36	0.0803	5.89 %	1.28	1.29	1.31	1.38	1.44	1.47
Total Hepta-Dioxins	1.17	0.0712	6.10 %	1.12	1.09	1.12	1.16	1.25	1.26
Total Tetra-Furans	1.29	0.0564	4.39 %	1.22	1.28	1.25	1.26	1.31	1.38
1st Fn. Tot Penta-Furans	0.90	0.0756	8.43 %	0.81	0.82	0.86	0.93	0.97	0.99
Total Penta-Furans	0.90	0.0756	8.43 %	0.81	0.82	0.86	0.93	0.97	0.99
Total Hexa-Furans	0.99	0.0838	8.45 %	0.89	0.91	0.96	1.01	1.07	1.10
Total Hepta-Furans	1.47	0.144	9.82 %	1.33	1.32	1.39	1.49	1.62	1.65

Analyst: _____ Date: 11/19/09

Run #1 Filename 18NOV09M S: 2 Acquired: 18-NOV-09 14:40:53 Cal: PCDDFAL3-11-18-09
Client ID: ST111809M0 Analyte: FAL ID: 1613 CS0 090918G

	Typ	Name	Amount	Resp	RA	RT	RF	RRF	
1	Unk	2,3,7,8-TCDD	0.25	6.29e+04	0.72 y	27:25	-	0.999	y
2	Unk	1,2,3,7,8-PeCDD	1.25	2.97e+05	1.58 y	33:14	-	0.878	y
3	Unk	1,2,3,4,7,8-HxCDD	1.25	3.17e+05	1.22 y	38:36	-	1.26	y
4	Unk	1,2,3,6,7,8-HxCDD	1.25	2.97e+05	1.25 y	38:46	-	1.26	y
5	Unk	1,2,3,7,8,9-HxCDD	1.25	3.23e+05	1.29 y	39:13	-	1.32	y
6	Unk	1,2,3,4,6,7,8-HpCDD	1.25	2.62e+05	0.93 y	44:14	-	1.12	y
7	Unk	OCDD	2.50	3.81e+05	0.92 y	49:49	-	1.09	y
8	Unk	2,3,7,8-TCDF	0.25	1.27e+05	0.69 y	26:39	-	1.22	y
9	Unk	1,2,3,7,8-PeCDF	1.25	4.03e+05	1.75 y	31:30	-	0.794	y
10	Unk	2,3,4,7,8-PeCDF	1.25	4.20e+05	1.65 y	32:49	-	0.830	y
11	Unk	1,2,3,4,7,8-HxCDF	1.25	3.91e+05	1.24 y	37:13	-	0.887	y
12	Unk	1,2,3,6,7,8-HxCDF	1.25	4.20e+05	1.21 y	37:26	-	0.822	y
13	Unk	2,3,4,6,7,8-HxCDF	1.25	4.00e+05	1.29 y	38:21	-	0.906	y
14	Unk	1,2,3,7,8,9-HxCDF	1.25	3.77e+05	1.28 y	39:47	-	0.981	y
15	Unk	1,2,3,4,6,7,8-HpCDF	1.25	3.46e+05	1.00 y	42:19	-	1.22	y
16	Unk	1,2,3,4,7,8,9-HpCDF	1.25	3.09e+05	1.00 y	45:08	-	1.49	y
17	Unk	OCDF	2.50	4.50e+05	0.88 y	50:10	-	0.754	y
18	IS/RT	13C-2,3,7,8-TCDD	100.00	2.52e+07	0.73 y	27:23	-	0.925	y
19	IS	13C-1,2,3,7,8-PeCDD	100.00	2.71e+07	1.63 y	33:13	-	0.994	y
20	IS	13C-1,2,3,4,7,8-HxCDD	100.00	2.02e+07	1.31 y	38:35	-	0.994	y
21	IS	13C-1,2,3,6,7,8-HxCDD	100.00	1.89e+07	1.33 y	38:45	-	0.930	y
22	IS	13C-1,2,3,4,6,7,8-HpCDD	100.00	1.87e+07	1.06 y	44:12	-	0.922	y
23	IS	13C-OCDD	200.00	2.79e+07	1.01 y	49:47	-	0.689	y
24	IS	13C-2,3,7,8-TCDF	100.00	4.15e+07	0.81 y	26:38	-	0.852	y
25	IS	13C-1,2,3,7,8-PeCDF	100.00	4.06e+07	1.67 y	31:28	-	0.835	y
26	IS	13C-2,3,4,7,8-PeCDF	100.00	4.04e+07	1.68 y	32:48	-	0.831	y
27	IS	13C-1,2,3,4,7,8-HxCDF	100.00	3.52e+07	0.48 y	37:12	-	1.74	y
28	IS	13C-1,2,3,6,7,8-HxCDF	100.00	4.09e+07	0.48 y	37:24	-	2.01	y
29	IS	13C-2,3,4,6,7,8-HxCDF	100.00	3.53e+07	0.49 y	38:20	-	1.74	y
30	IS	13C-1,2,3,7,8,9-HxCDF	100.00	3.07e+07	0.49 y	39:47	-	1.51	y
31	IS	13C-1,2,3,4,6,7,8-HpCDF	100.00	2.27e+07	0.46 y	42:18	-	1.12	y
32	IS	13C-1,2,3,4,7,8,9-HpCDF	100.00	1.66e+07	0.46 y	45:07	-	0.821	y
33	IS	13C-OCDF	200.00	4.77e+07	0.92 y	50:10	-	1.18	y
34	C/Up	37Cl-2,3,7,8-TCDD	0.25	6.12e+04		27:25	-	0.900	y
35	RS	13C-1,2,3,4-TCDD	100.00	2.72e+07	0.74 y	26:49	2.72e+05	-	n
36	RS	13C-1,2,3,4-TCDF	100.00	4.87e+07	0.81 y	25:33	4.87e+05	-	n
37	RS/RT	13C-1,2,3,7,8,9-HxCDD	100.00	2.03e+07	1.33 y	39:12	2.03e+05	-	n
38	Tot	Total Tetra-Dioxins	0.00	-	- n	-	-	0.999	y
39	Tot	Total Penta-Dioxins	0.00	-	- n	-	-	0.878	y
40	Tot	Total Hexa-Dioxins	0.00	-	- n	-	-	1.28	y
41	Tot	Total Hepta-Dioxins	0.00	-	- n	-	-	1.12	y
42	Tot	Total Tetra-Furans	0.00	-	- n	-	-	1.22	y
43	Tot	1st Fn. Tot Penta-Furans	0.00	-	- n	-	-	0.812	y
44	Tot	Total Penta-Furans	0.00	-	- n	-	-	0.812	y
45	Tot	Total Hexa-Furans	0.00	-	- n	-	-	0.893	y
46	Tot	Total Hepta-Furans	0.00	-	- n	-	-	1.33	y

Analyst: _____ Date: 11/19/09

Run #2 Filename 18NOV09M S: 3 Acquired: 18-NOV-09 15:36:11 Cal: PCDDFAL3-11-18-09
Client ID: ST111809M1 Analyte: FAL ID: 1613 CS1 090918H

	Typ	Name	Amount	Resp	RA		RT	RF	RRF	
1	Unk	2,3,7,8-TCDD	0.50	1.11e+05	0.75	y	27:24	-	0.929	y
2	Unk	1,2,3,7,8-PeCDD	2.50	5.36e+05	1.55	y	33:13	-	0.880	y
3	Unk	1,2,3,4,7,8-HxCDD	2.50	5.91e+05	1.24	y	38:36	-	1.27	y
4	Unk	1,2,3,6,7,8-HxCDD	2.50	5.90e+05	1.34	y	38:46	-	1.33	y
5	Unk	1,2,3,7,8,9-HxCDD	2.50	5.76e+05	1.27	y	39:13	-	1.27	y
6	Unk	1,2,3,4,6,7,8-HpCDD	2.50	4.64e+05	0.91	y	44:14	-	1.09	y
7	Unk	OCDD	5.00	7.02e+05	0.93	y	49:48	-	1.11	y
8	Unk	2,3,7,8-TCDF	0.50	2.57e+05	0.66	y	26:38	-	1.28	y
9	Unk	1,2,3,7,8-PeCDF	2.50	7.54e+05	1.68	y	31:29	-	0.811	y
10	Unk	2,3,4,7,8-PeCDF	2.50	7.51e+05	1.69	y	32:48	-	0.839	y
11	Unk	1,2,3,4,7,8-HxCDF	2.50	7.60e+05	1.28	y	37:12	-	0.906	y
12	Unk	1,2,3,6,7,8-HxCDF	2.50	8.29e+05	1.28	y	37:25	-	0.857	y
13	Unk	2,3,4,6,7,8-HxCDF	2.50	7.51e+05	1.20	y	38:21	-	0.905	y
14	Unk	1,2,3,7,8,9-HxCDF	2.50	7.09e+05	1.26	y	39:47	-	1.01	y
15	Unk	1,2,3,4,6,7,8-HpCDF	2.50	6.45e+05	1.00	y	42:19	-	1.22	y
16	Unk	1,2,3,4,7,8,9-HpCDF	2.50	5.81e+05	0.96	y	45:08	-	1.44	y
17	Unk	OCDF	5.00	8.42e+05	0.93	y	50:11	-	0.763	y
18	IS/RT	13C-2,3,7,8-TCDD	100.00	2.38e+07	0.73	y	27:22	-	0.913	y
19	IS	13C-1,2,3,7,8-PeCDD	100.00	2.44e+07	1.69	y	33:12	-	0.934	y
20	IS	13C-1,2,3,4,7,8-HxCDD	100.00	1.86e+07	1.36	y	38:35	-	0.969	y
21	IS	13C-1,2,3,6,7,8-HxCDD	100.00	1.78e+07	1.31	y	38:44	-	0.928	y
22	IS	13C-1,2,3,4,6,7,8-HpCDD	100.00	1.70e+07	1.07	y	44:12	-	0.886	y
23	IS	13C-OCDD	200.00	2.54e+07	1.00	y	49:47	-	0.662	y
24	IS	13C-2,3,7,8-TCDF	100.00	4.01e+07	0.81	y	26:37	-	0.850	y
25	IS	13C-1,2,3,7,8-PeCDF	100.00	3.72e+07	1.68	y	31:28	-	0.790	y
26	IS	13C-2,3,4,7,8-PeCDF	100.00	3.58e+07	1.71	y	32:47	-	0.759	y
27	IS	13C-1,2,3,4,7,8-HxCDF	100.00	3.36e+07	0.48	y	37:11	-	1.75	y
28	IS	13C-1,2,3,6,7,8-HxCDF	100.00	3.87e+07	0.48	y	37:23	-	2.02	y
29	IS	13C-2,3,4,6,7,8-HxCDF	100.00	3.32e+07	0.49	y	38:20	-	1.73	y
30	IS	13C-1,2,3,7,8,9-HxCDF	100.00	2.82e+07	0.49	y	39:46	-	1.47	y
31	IS	13C-1,2,3,4,6,7,8-HpCDF	100.00	2.11e+07	0.45	y	42:17	-	1.10	y
32	IS	13C-1,2,3,4,7,8,9-HpCDF	100.00	1.61e+07	0.45	y	45:07	-	0.842	y
33	IS	13C-OCDF	200.00	4.41e+07	0.92	y	50:09	-	1.15	y
34	C/Up	37Cl-2,3,7,8-TCDD	0.50	1.21e+05			27:24	-	0.926	y
35	RS	13C-1,2,3,4-TCDD	100.00	2.61e+07	0.73	y	26:48	2.61e+05	-	n
36	RS	13C-1,2,3,4-TCDF	100.00	4.71e+07	0.81	y	25:32	4.71e+05	-	n
37	RS/RT	13C-1,2,3,7,8,9-HxCDD	100.00	1.92e+07	1.31	y	39:11	1.92e+05	-	n
38	Tot	Total Tetra-Dioxins	0.00	-	-	n	-	-	0.929	y
39	Tot	Total Penta-Dioxins	0.00	-	-	n	-	-	0.880	y
40	Tot	Total Hexa-Dioxins	0.00	-	-	n	-	-	1.29	y
41	Tot	Total Hepta-Dioxins	0.00	-	-	n	-	-	1.09	y
42	Tot	Total Tetra-Furans	0.00	-	-	n	-	-	1.28	y
43	Tot	1st Fn. Tot Penta-Furans	0.00	-	-	n	-	-	0.824	y
44	Tot	Total Penta-Furans	0.00	-	-	n	-	-	0.824	y
45	Tot	Total Hexa-Furans	0.00	-	-	n	-	-	0.913	y
46	Tot	Total Hepta-Furans	0.00	-	-	n	-	-	1.32	y

Analyst: _____ Date: 11/19/09

Run #3 Filename 18NOV09M S: 4 Acquired: 18-NOV-09 16:31:26 Cal: PCDDFAL3-11-18-09
Client ID: ST111809M2 Analyte: FAL ID: 1613 CS2 090918I

	Typ	Name	Amount	Resp	RA		RT	RF	RRF	
1	Unk	2,3,7,8-TCDD	2.00	4.69e+05	0.80	y	27:23	-	0.945	y
2	Unk	1,2,3,7,8-PeCDD	10.00	2.50e+06	1.55	y	33:13	-	0.933	y
3	Unk	1,2,3,4,7,8-HxCDD	10.00	2.60e+06	1.24	y	38:36	-	1.31	y
4	Unk	1,2,3,6,7,8-HxCDD	10.00	2.48e+06	1.24	y	38:46	-	1.30	y
5	Unk	1,2,3,7,8,9-HxCDD	10.00	2.57e+06	1.27	y	39:12	-	1.32	y
6	Unk	1,2,3,4,6,7,8-HpCDD	10.00	1.93e+06	0.91	y	44:13	-	1.12	y
7	Unk	OCDD	20.00	2.90e+06	0.92	y	49:48	-	1.17	y
8	Unk	2,3,7,8-TCDF	2.00	1.02e+06	0.66	y	26:38	-	1.25	y
9	Unk	1,2,3,7,8-PeCDF	10.00	3.54e+06	1.71	y	31:29	-	0.852	y
10	Unk	2,3,4,7,8-PeCDF	10.00	3.49e+06	1.69	y	32:48	-	0.868	y
11	Unk	1,2,3,4,7,8-HxCDF	10.00	3.37e+06	1.23	y	37:12	-	0.972	y
12	Unk	1,2,3,6,7,8-HxCDF	10.00	3.62e+06	1.22	y	37:25	-	0.884	y
13	Unk	2,3,4,6,7,8-HxCDF	10.00	3.37e+06	1.24	y	38:20	-	0.951	y
14	Unk	1,2,3,7,8,9-HxCDF	10.00	3.10e+06	1.21	y	39:47	-	1.06	y
15	Unk	1,2,3,4,6,7,8-HpCDF	10.00	2.82e+06	1.00	y	42:18	-	1.31	y
16	Unk	1,2,3,4,7,8,9-HpCDF	10.00	2.41e+06	1.01	y	45:08	-	1.50	y
17	Unk	OCDF	20.00	3.55e+06	0.91	y	50:10	-	0.813	y
18	IS/RT	13C-2,3,7,8-TCDD	100.00	2.48e+07	0.73	y	27:22	-	0.929	y
19	IS	13C-1,2,3,7,8-PeCDD	100.00	2.68e+07	1.66	y	33:12	-	1.00	y
20	IS	13C-1,2,3,4,7,8-HxCDD	100.00	1.99e+07	1.32	y	38:35	-	1.00	y
21	IS	13C-1,2,3,6,7,8-HxCDD	100.00	1.91e+07	1.31	y	38:44	-	0.964	y
22	IS	13C-1,2,3,4,6,7,8-HpCDD	100.00	1.73e+07	1.06	y	44:12	-	0.871	y
23	IS	13C-OCDD	200.00	2.47e+07	0.98	y	49:46	-	0.624	y
24	IS	13C-2,3,7,8-TCDF	100.00	4.07e+07	0.82	y	26:37	-	0.856	y
25	IS	13C-1,2,3,7,8-PeCDF	100.00	4.15e+07	1.68	y	31:28	-	0.873	y
26	IS	13C-2,3,4,7,8-PeCDF	100.00	4.02e+07	1.66	y	32:47	-	0.845	y
27	IS	13C-1,2,3,4,7,8-HxCDF	100.00	3.46e+07	0.49	y	37:11	-	1.75	y
28	IS	13C-1,2,3,6,7,8-HxCDF	100.00	4.09e+07	0.50	y	37:23	-	2.06	y
29	IS	13C-2,3,4,6,7,8-HxCDF	100.00	3.55e+07	0.50	y	38:19	-	1.79	y
30	IS	13C-1,2,3,7,8,9-HxCDF	100.00	2.93e+07	0.49	y	39:46	-	1.48	y
31	IS	13C-1,2,3,4,6,7,8-HpCDF	100.00	2.15e+07	0.46	y	42:18	-	1.08	y
32	IS	13C-1,2,3,4,7,8,9-HpCDF	100.00	1.60e+07	0.46	y	45:06	-	0.809	y
33	IS	13C-OCDF	200.00	4.36e+07	0.93	y	50:09	-	1.10	y
34	C/Up	37Cl-2,3,7,8-TCDD	2.00	4.80e+05			27:23	-	0.899	y
35	RS	13C-1,2,3,4-TCDD	100.00	2.67e+07	0.74	y	26:48	2.67e+05	-	n
36	RS	13C-1,2,3,4-TCDF	100.00	4.76e+07	0.81	y	25:31	4.76e+05	-	n
37	RS/RT	13C-1,2,3,7,8,9-HxCDD	100.00	1.98e+07	1.32	y	39:12	1.98e+05	-	n
38	Tot	Total Tetra-Dioxins	0.00	-	-	n	-	-	0.945	y
39	Tot	Total Penta-Dioxins	0.00	-	-	n	-	-	0.933	y
40	Tot	Total Hexa-Dioxins	0.00	-	-	n	-	-	1.31	y
41	Tot	Total Hepta-Dioxins	0.00	-	-	n	-	-	1.12	y
42	Tot	Total Tetra-Furans	0.00	-	-	n	-	-	1.25	y
43	Tot	1st Fn. Tot Penta-Furans	0.00	-	-	n	-	-	0.860	y
44	Tot	Total Penta-Furans	0.00	-	-	n	-	-	0.860	y
45	Tot	Total Hexa-Furans	0.00	-	-	n	-	-	0.959	y
46	Tot	Total Hepta-Furans	0.00	-	-	n	-	-	1.39	y

Analyst: _____ Date: 11/19/09

Run #4 Filename 18NOV09M S: 1 Acquired: 18-NOV-09 13:45:10 Cal: PCDDFAL3-11-18-09
Client ID: ST111809M3 Analyte: FAL ID: 1613 CS3 090918J

	Typ	Name	Amount	Resp	RA	RT	RF	RRF	
1	Unk	2,3,7,8-TCDD	10.00	2.56e+06	0.76 y	27:24	-	1.04	y
2	Unk	1,2,3,7,8-PeCDD	50.00	1.28e+07	1.56 y	33:14	-	0.993	y
3	Unk	1,2,3,4,7,8-HxCDD	50.00	1.38e+07	1.29 y	38:36	-	1.41	y
4	Unk	1,2,3,6,7,8-HxCDD	50.00	1.26e+07	1.28 y	38:47	-	1.35	y
5	Unk	1,2,3,7,8,9-HxCDD	50.00	1.34e+07	1.27 y	39:14	-	1.40	y
6	Unk	1,2,3,4,6,7,8-HpCDD	50.00	1.05e+07	0.95 y	44:14	-	1.16	y
7	Unk	OCDD	100.00	1.68e+07	0.91 y	49:49	-	1.23	y
8	Unk	2,3,7,8-TCDF	10.00	5.06e+06	0.66 y	26:38	-	1.26	y
9	Unk	1,2,3,7,8-PeCDF	50.00	1.89e+07	1.72 y	31:30	-	0.936	y
10	Unk	2,3,4,7,8-PeCDF	50.00	1.80e+07	1.72 y	32:49	-	0.923	y
11	Unk	1,2,3,4,7,8-HxCDF	50.00	1.75e+07	1.25 y	37:13	-	1.03	y
12	Unk	1,2,3,6,7,8-HxCDF	50.00	1.87e+07	1.25 y	37:25	-	0.930	y
13	Unk	2,3,4,6,7,8-HxCDF	50.00	1.77e+07	1.26 y	38:21	-	1.00	y
14	Unk	1,2,3,7,8,9-HxCDF	50.00	1.70e+07	1.24 y	39:48	-	1.11	y
15	Unk	1,2,3,4,6,7,8-HpCDF	50.00	1.53e+07	1.01 y	42:19	-	1.39	y
16	Unk	1,2,3,4,7,8,9-HpCDF	50.00	1.40e+07	0.99 y	45:09	-	1.62	y
17	Unk	OCDF	100.00	2.08e+07	0.92 y	50:11	-	0.863	y
18	IS/RT	13C-2,3,7,8-TCDD	100.00	2.46e+07	0.74 y	27:22	-	0.959	y
19	IS	13C-1,2,3,7,8-PeCDD	100.00	2.58e+07	1.60 y	33:13	-	1.00	y
20	IS	13C-1,2,3,4,7,8-HxCDD	100.00	1.96e+07	1.34 y	38:36	-	0.985	y
21	IS	13C-1,2,3,6,7,8-HxCDD	100.00	1.88e+07	1.34 y	38:45	-	0.943	y
22	IS	13C-1,2,3,4,6,7,8-HpCDD	100.00	1.81e+07	1.09 y	44:13	-	0.909	y
23	IS	13C-OCDD	200.00	2.74e+07	1.02 y	49:48	-	0.689	y
24	IS	13C-2,3,7,8-TCDF	100.00	4.03e+07	0.82 y	26:37	-	0.883	y
25	IS	13C-1,2,3,7,8-PeCDF	100.00	4.03e+07	1.68 y	31:28	-	0.884	y
26	IS	13C-2,3,4,7,8-PeCDF	100.00	3.90e+07	1.69 y	32:47	-	0.854	y
27	IS	13C-1,2,3,4,7,8-HxCDF	100.00	3.40e+07	0.49 y	37:11	-	1.71	y
28	IS	13C-1,2,3,6,7,8-HxCDF	100.00	4.01e+07	0.49 y	37:24	-	2.01	y
29	IS	13C-2,3,4,6,7,8-HxCDF	100.00	3.52e+07	0.49 y	38:20	-	1.77	y
30	IS	13C-1,2,3,7,8,9-HxCDF	100.00	3.06e+07	0.49 y	39:46	-	1.54	y
31	IS	13C-1,2,3,4,6,7,8-HpCDF	100.00	2.19e+07	0.46 y	42:18	-	1.10	y
32	IS	13C-1,2,3,4,7,8,9-HpCDF	100.00	1.74e+07	0.44 y	45:08	-	0.872	y
33	IS	13C-OCDF	200.00	4.82e+07	0.94 y	50:10	-	1.21	y
34	C/Up	37Cl-2,3,7,8-TCDD	10.00	2.51e+06		27:24	-	0.978	y
35	RS	13C-1,2,3,4-TCDD	100.00	2.57e+07	0.74 y	26:48	2.57e+05	-	n
36	RS	13C-1,2,3,4-TCDF	100.00	4.56e+07	0.81 y	25:32	4.56e+05	-	n
37	RS/RT	13C-1,2,3,7,8,9-HxCDD	100.00	1.99e+07	1.34 y	39:12	1.99e+05	-	n
38	Tot	Total Tetra-Dioxins	0.00	-	- n	-	-	1.04	y
39	Tot	Total Penta-Dioxins	0.00	-	- n	-	-	0.993	y
40	Tot	Total Hexa-Dioxins	0.00	-	- n	-	-	1.38	y
41	Tot	Total Hepta-Dioxins	0.00	-	- n	-	-	1.16	y
42	Tot	Total Tetra-Furans	0.00	-	- n	-	-	1.26	y
43	Tot	1st Fn. Tot Penta-Furans	0.00	-	- n	-	-	0.930	y
44	Tot	Total Penta-Furans	0.00	-	- n	-	-	0.930	y
45	Tot	Total Hexa-Furans	0.00	-	- n	-	-	1.01	y
46	Tot	Total Hepta-Furans	0.00	-	- n	-	-	1.49	y

Analyst: _____ Date: 11/19/09

Run #5 Filename 18NOV09M S: 5 Acquired: 18-NOV-09 17:26:40 Cal: PCDDFAL3-11-18-09
Client ID: ST111809M4 Analyte: FAL ID: 1613 CS4 090918K

	Typ	Name	Amount	Resp	RA	RT	RF	RRF	
1	Unk	2,3,7,8-TCDD	40.00	1.15e+07	0.78 y	27:23	-	1.07	y
2	Unk	1,2,3,7,8-PeCDD	200.00	5.92e+07	1.60 y	33:13	-	1.02	y
3	Unk	1,2,3,4,7,8-HxCDD	200.00	6.29e+07	1.27 y	38:35	-	1.48	y
4	Unk	1,2,3,6,7,8-HxCDD	200.00	5.74e+07	1.28 y	38:46	-	1.40	y
5	Unk	1,2,3,7,8,9-HxCDD	200.00	5.95e+07	1.26 y	39:13	-	1.43	y
6	Unk	1,2,3,4,6,7,8-HpCDD	200.00	4.77e+07	0.95 y	44:13	-	1.25	y
7	Unk	OCDD	400.00	7.39e+07	0.92 y	49:48	-	1.34	y
8	Unk	2,3,7,8-TCDF	40.00	2.33e+07	0.66 y	26:37	-	1.31	y
9	Unk	1,2,3,7,8-PeCDF	200.00	8.59e+07	1.69 y	31:29	-	0.964	y
10	Unk	2,3,4,7,8-PeCDF	200.00	8.30e+07	1.71 y	32:48	-	0.978	y
11	Unk	1,2,3,4,7,8-HxCDF	200.00	8.21e+07	1.25 y	37:12	-	1.08	y
12	Unk	1,2,3,6,7,8-HxCDF	200.00	8.80e+07	1.25 y	37:24	-	0.991	y
13	Unk	2,3,4,6,7,8-HxCDF	200.00	8.00e+07	1.23 y	38:21	-	1.06	y
14	Unk	1,2,3,7,8,9-HxCDF	200.00	7.74e+07	1.25 y	39:47	-	1.17	y
15	Unk	1,2,3,4,6,7,8-HpCDF	200.00	7.01e+07	1.02 y	42:18	-	1.50	y
16	Unk	1,2,3,4,7,8,9-HpCDF	200.00	6.47e+07	1.02 y	45:08	-	1.77	y
17	Unk	OCDF	400.00	9.18e+07	0.92 y	50:11	-	0.930	y
18	IS/RT	13C-2,3,7,8-TCDD	100.00	2.70e+07	0.73 y	27:22	-	0.950	y
19	IS	13C-1,2,3,7,8-PeCDD	100.00	2.91e+07	1.73 y	33:12	-	1.02	y
20	IS	13C-1,2,3,4,7,8-HxCDD	100.00	2.13e+07	1.33 y	38:35	-	0.983	y
21	IS	13C-1,2,3,6,7,8-HxCDD	100.00	2.05e+07	1.33 y	38:44	-	0.946	y
22	IS	13C-1,2,3,4,6,7,8-HpCDD	100.00	1.91e+07	1.06 y	44:12	-	0.885	y
23	IS	13C-OCDD	200.00	2.76e+07	0.99 y	49:47	-	0.638	y
24	IS	13C-2,3,7,8-TCDF	100.00	4.44e+07	0.82 y	26:36	-	0.918	y
25	IS	13C-1,2,3,7,8-PeCDF	100.00	4.45e+07	1.70 y	31:27	-	0.921	y
26	IS	13C-2,3,4,7,8-PeCDF	100.00	4.24e+07	1.70 y	32:47	-	0.877	y
27	IS	13C-1,2,3,4,7,8-HxCDF	100.00	3.79e+07	0.50 y	37:11	-	1.75	y
28	IS	13C-1,2,3,6,7,8-HxCDF	100.00	4.44e+07	0.49 y	37:23	-	2.05	y
29	IS	13C-2,3,4,6,7,8-HxCDF	100.00	3.79e+07	0.49 y	38:19	-	1.75	y
30	IS	13C-1,2,3,7,8,9-HxCDF	100.00	3.30e+07	0.48 y	39:46	-	1.53	y
31	IS	13C-1,2,3,4,6,7,8-HpCDF	100.00	2.33e+07	0.47 y	42:17	-	1.08	y
32	IS	13C-1,2,3,4,7,8,9-HpCDF	100.00	1.82e+07	0.46 y	45:07	-	0.843	y
33	IS	13C-OCDF	200.00	4.94e+07	0.92 y	50:09	-	1.14	y
34	C/Up	37Cl-2,3,7,8-TCDD	40.00	1.17e+07		27:23	-	1.03	y
35	RS	13C-1,2,3,4-TCDD	100.00	2.85e+07	0.74 y	26:47	2.85e+05	-	n
36	RS	13C-1,2,3,4-TCDF	100.00	4.84e+07	0.82 y	25:32	4.84e+05	-	n
37	RS/RT	13C-1,2,3,7,8,9-HxCDD	100.00	2.16e+07	1.31 y	39:12	2.16e+05	-	n
38	Tot	Total Tetra-Dioxins	0.00	-	- n	-	-	1.07	y
39	Tot	Total Penta-Dioxins	0.00	-	- n	-	-	1.02	y
40	Tot	Total Hexa-Dioxins	0.00	-	- n	-	-	1.44	y
41	Tot	Total Hepta-Dioxins	0.00	-	- n	-	-	1.25	y
42	Tot	Total Tetra-Furans	0.00	-	- n	-	-	1.31	y
43	Tot	1st Fn. Tot Penta-Furans	0.00	-	- n	-	-	0.971	y
44	Tot	Total Penta-Furans	0.00	-	- n	-	-	0.971	y
45	Tot	Total Hexa-Furans	0.00	-	- n	-	-	1.07	y
46	Tot	Total Hepta-Furans	0.00	-	- n	-	-	1.62	y

Analyst: _____ Date: 11/19/09

Run #6 Filename 18NOV09M S: 6 Acquired: 18-NOV-09 18:21:58 Cal: PCDDFAL3-11-18-09
Client ID: ST111809M5 Analyte: PCDDFAL3-11-18-09 FAL ID: 1613 CS5 090918L

	Typ	Name	Amount	Resp	RA	RT	RF	RRF	
1	Unk	2,3,7,8-TCDD	200.00	4.98e+07	0.78 y	27:23	-	1.12	y
2	Unk	1,2,3,7,8-PeCDD	1000.00	2.79e+08	1.55 y	33:13	-	1.07	y
3	Unk	1,2,3,4,7,8-HxCDD	1000.00	3.29e+08	1.27 y	38:36	-	1.52	y
4	Unk	1,2,3,6,7,8-HxCDD	1000.00	2.88e+08	1.27 y	38:46	-	1.42	y
5	Unk	1,2,3,7,8,9-HxCDD	1000.00	3.07e+08	1.25 y	39:13	-	1.47	y
6	Unk	1,2,3,4,6,7,8-HpCDD	1000.00	2.60e+08	0.97 y	44:13	-	1.26	y
7	Unk	OCDD	2000.00	4.20e+08	0.91 y	49:49	-	1.35	y
8	Unk	2,3,7,8-TCDF	200.00	1.00e+08	0.68 y	26:38	-	1.38	y
9	Unk	1,2,3,7,8-PeCDF	1000.00	3.75e+08	1.67 y	31:29	-	0.979	y
10	Unk	2,3,4,7,8-PeCDF	1000.00	3.68e+08	1.68 y	32:48	-	0.995	y
11	Unk	1,2,3,4,7,8-HxCDF	1000.00	3.99e+08	1.26 y	37:12	-	1.11	y
12	Unk	1,2,3,6,7,8-HxCDF	1000.00	4.18e+08	1.25 y	37:24	-	1.01	y
13	Unk	2,3,4,6,7,8-HxCDF	1000.00	3.97e+08	1.25 y	38:20	-	1.09	y
14	Unk	1,2,3,7,8,9-HxCDF	1000.00	4.04e+08	1.24 y	39:47	-	1.20	y
15	Unk	1,2,3,4,6,7,8-HpCDF	1000.00	3.72e+08	1.01 y	42:18	-	1.51	y
16	Unk	1,2,3,4,7,8,9-HpCDF	1000.00	3.62e+08	1.01 y	45:08	-	1.82	y
17	Unk	OCDF	2000.00	5.23e+08	0.93 y	50:12	-	0.933	y
18	IS/RT	13C-2,3,7,8-TCDD	100.00	2.22e+07	0.74 y	27:22	-	0.980	y
19	IS	13C-1,2,3,7,8-PeCDD	100.00	2.61e+07	1.65 y	33:12	-	1.15	y
20	IS	13C-1,2,3,4,7,8-HxCDD	100.00	2.17e+07	1.33 y	38:35	-	0.972	y
21	IS	13C-1,2,3,6,7,8-HxCDD	100.00	2.02e+07	1.33 y	38:44	-	0.909	y
22	IS	13C-1,2,3,4,6,7,8-HpCDD	100.00	2.06e+07	1.07 y	44:12	-	0.923	y
23	IS	13C-OCDD	200.00	3.11e+07	1.02 y	49:48	-	0.698	y
24	IS	13C-2,3,7,8-TCDF	100.00	3.62e+07	0.83 y	26:37	-	0.911	y
25	IS	13C-1,2,3,7,8-PeCDF	100.00	3.83e+07	1.66 y	31:27	-	0.963	y
26	IS	13C-2,3,4,7,8-PeCDF	100.00	3.70e+07	1.70 y	32:46	-	0.930	y
27	IS	13C-1,2,3,4,7,8-HxCDF	100.00	3.59e+07	0.49 y	37:11	-	1.61	y
28	IS	13C-1,2,3,6,7,8-HxCDF	100.00	4.14e+07	0.50 y	37:23	-	1.86	y
29	IS	13C-2,3,4,6,7,8-HxCDF	100.00	3.63e+07	0.49 y	38:20	-	1.63	y
30	IS	13C-1,2,3,7,8,9-HxCDF	100.00	3.35e+07	0.48 y	39:46	-	1.51	y
31	IS	13C-1,2,3,4,6,7,8-HpCDF	100.00	2.47e+07	0.46 y	42:17	-	1.11	y
32	IS	13C-1,2,3,4,7,8,9-HpCDF	100.00	1.99e+07	0.47 y	45:06	-	0.892	y
33	IS	13C-OCDF	200.00	5.61e+07	0.94 y	50:10	-	1.26	y
34	C/Up	37Cl-2,3,7,8-TCDD	200.00	5.04e+07		27:23	-	1.11	y
35	RS	13C-1,2,3,4-TCDD	100.00	2.27e+07	0.74 y	26:47	2.27e+05	-	n
36	RS	13C-1,2,3,4-TCDF	100.00	3.98e+07	0.82 y	25:31	3.98e+05	-	n
37	RS/RT	13C-1,2,3,7,8,9-HxCDD	100.00	2.23e+07	1.31 y	39:11	2.23e+05	-	n
38	Tot	Total Tetra-Dioxins	0.00	-	- n	-	-	1.12	y
39	Tot	Total Penta-Dioxins	0.00	-	- n	-	-	1.07	y
40	Tot	Total Hexa-Dioxins	0.00	-	- n	-	-	1.47	y
41	Tot	Total Hepta-Dioxins	0.00	-	- n	-	-	1.26	y
42	Tot	Total Tetra-Furans	0.00	-	- n	-	-	1.38	y
43	Tot	1st Fn. Tot Penta-Furans	0.00	-	- n	-	-	0.987	y
44	Tot	Total Penta-Furans	0.00	-	- n	-	-	0.987	y
45	Tot	Total Hexa-Furans	0.00	-	- n	-	-	1.10	y
46	Tot	Total Hepta-Furans	0.00	-	- n	-	-	1.65	y

Analyst: _____ Date: 11/19/09

USEPA - ITD

FORM 3A
PCDD/PCDF INITIAL CALIBRATION RELATIVE RESPONSES

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 11/18/09

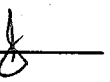
Instrument ID: FAL3 GC Column ID: DB5

CS0 Data Filename: 18NOV09M S2 CS3 Data Filename: 18NOV09M S1

CS1 Data Filename: 18NOV09M S3 CS4 Data Filename: 18NOV09M S5

CS2 Data Filename: 18NOV09M S4 CS5 Data Filename: 18NOV09M S6

	RELATIVE RESPONSE (RR)						MEAN RR	Cv (%RSD)
	CS1	CS2	CS3	CS4	CS5	CS6		
NATIVE ANALYTES								
2,3,7,8-TCDD	1.00	0.93	0.95	1.04	1.07	1.12	1.02	7.22
1,2,3,7,8-PeCDD	0.88	0.88	0.93	0.99	1.02	1.07	0.96	8.09
1,2,3,4,7,8-HxCDD	1.26	1.27	1.31	1.41	1.48	1.52	1.37	8.00
1,2,3,6,7,8-HxCDD	1.26	1.33	1.30	1.35	1.40	1.42	1.34	4.55
1,2,3,7,8,9-HxCDD	1.32	1.27	1.32	1.40	1.43	1.47	1.37	5.49
1,2,3,4,6,7,8-HpCDD	1.12	1.09	1.12	1.16	1.25	1.26	1.17	6.10
OCDD	1.09	1.11	1.17	1.23	1.34	1.35	1.21	9.27
2,3,7,8-TCDF	1.22	1.28	1.25	1.26	1.31	1.38	1.29	4.39
1,2,3,7,8-PeCDF	0.79	0.81	0.85	0.94	0.96	0.98	0.89	9.08
2,3,4,7,8-PeCDF	0.83	0.84	0.87	0.92	0.98	1.00	0.91	7.85
1,2,3,4,7,8-HxCDF	0.89	0.91	0.97	1.03	1.08	1.11	1.00	9.26
1,2,3,6,7,8-HxCDF	0.82	0.86	0.88	0.93	0.99	1.01	0.92	8.16
2,3,4,6,7,8-HxCDF	0.91	0.90	0.95	1.00	1.06	1.09	0.99	7.97
1,2,3,7,8,9-HxCDF	0.98	1.01	1.06	1.11	1.17	1.20	1.09	8.28
1,2,3,4,6,7,8-HpCDF	1.22	1.22	1.31	1.39	1.50	1.51	1.36	9.61
1,2,3,4,7,8,9-HpCDF	1.49	1.44	1.50	1.62	1.77	1.82	1.61	9.90
OCDF	0.75	0.76	0.81	0.86	0.93	0.93	0.84	9.39

Analyst:  Date: 11/19/09

USEPA - ITD

FORM 3B
PCDD/PCDF INITIAL CALIBRATION RELATIVE RESPONSES

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 11/18/09

Instrument ID: FAL3 GC Column ID: DB5

CS0 Data Filename: 18NOV09M S2 CS4 Data Filename: 18NOV09M S1

CS1 Data Filename: 18NOV09M S3 CS4 Data Filename: 18NOV09M S5

CS2 Data Filename: 18NOV09M S4 CS5 Data Filename: 18NOV09M S6

	RELATIVE RESPONSE (RR)						MEAN RR	Cv (%RSD)
	CS1	CS2	CS3	CS4	CS5	CS6		
LABELED COMPOUNDS								
13C-2,3,7,8-TCDD	0.92	0.91	0.93	0.96	0.95	0.98	0.94	2.65
13C-1,2,3,7,8-PeCDD	0.99	0.93	1.00	1.00	1.02	1.15	1.02	7.06
13C-1,2,3,4,7,8-HxCDD	0.99	0.97	1.00	0.99	0.98	0.97	0.98	1.28
13C-1,2,3,6,7,8-HxCDD	0.93	0.93	0.96	0.94	0.95	0.91	0.94	2.01
13C-1,2,3,4,6,7,8-HpCDD	0.92	0.89	0.87	0.91	0.89	0.92	0.90	2.42
13C-OCDD	0.69	0.66	0.62	0.69	0.64	0.70	0.67	4.59
13C-2,3,7,8-TCDF	0.85	0.85	0.86	0.88	0.92	0.91	0.88	3.49
13C-1,2,3,7,8-PeCDF	0.83	0.79	0.87	0.88	0.92	0.96	0.88	6.98
13C-2,3,4,7,8-PeCDF	0.83	0.76	0.85	0.85	0.88	0.93	0.85	6.60
13C-1,2,3,4,7,8-HxCDF	1.74	1.75	1.75	1.71	1.75	1.61	1.72	3.20
13C-1,2,3,6,7,8-HxCDF	2.01	2.02	2.06	2.01	2.05	1.86	2.00	3.71
13C-2,3,4,6,7,8-HxCDF	1.74	1.73	1.79	1.77	1.75	1.63	1.74	3.24
13C-1,2,3,7,8,9-HxCDF	1.51	1.47	1.48	1.54	1.53	1.51	1.51	1.71
13C-1,2,3,4,6,7,8-HpCDF	1.12	1.10	1.08	1.10	1.08	1.11	1.10	1.39
13C-1,2,3,4,7,8,9-HpCDF	0.82	0.84	0.81	0.87	0.84	0.89	0.85	3.67
13C-OCDF	1.18	1.15	1.10	1.21	1.14	1.26	1.17	4.73
CLEANUP STANDARD								
37Cl-2,3,7,8-TCDD	0.90	0.93	0.90	0.98	1.03	1.11	0.97	8.61

Analyst: _____ Date: 11/19/09

USEPA - ITD

FORM 3C
PCDD/PCDF INITIAL CALIBRATION ION ABUNDANCE RATIOS

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 11/18/09

Instrument ID: FAL3 GC Column ID: DB5

CS0 Data Filename: 18NOV09M S2 CS3 Data Filename: 18NOV09M S1

CS1 Data Filename: 18NOV09M S3 CS4 Data Filename: 18NOV09M S5

CS2 Data Filename: 18NOV09M S4 CS5 Data Filename: 18NOV09M S6

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUNDANCE RATIOS CS1	CS2	CS3	CS4	CS5	CS6	QC LIMITS
2,3,7,8-TCDD	M/M+2	0.72	0.75	0.80	0.76	0.78	0.78	0.65-0.89
1,2,3,7,8-PeCDD	M+2/M+4	1.58	1.55	1.55	1.56	1.60	1.55	1.32-1.78
1,2,3,4,7,8-HxCDD	M+2/M+4	1.22	1.24	1.24	1.29	1.27	1.27	1.05-1.43
1,2,3,6,7,8-HxCDD	M+2/M+4	1.25	1.34	1.24	1.28	1.28	1.27	1.05-1.43
1,2,3,7,8,9-HxCDD	M+2/M+4	1.29	1.27	1.27	1.27	1.26	1.25	1.05-1.43
1,2,3,4,6,7,8-HpCDD	M+2/M+4	0.93	0.91	0.91	0.95	0.95	0.97	0.88-1.20
OCDD	M+2/M+4	0.92	0.93	0.92	0.91	0.92	0.91	0.76-1.02
2,3,7,8-TCDF	M/M+2	0.69	0.66	0.66	0.66	0.66	0.68	0.65-0.89
1,2,3,7,8-PeCDF	M+2/M+4	1.75	1.68	1.71	1.72	1.69	1.67	1.32-1.78
2,3,4,7,8-PeCDF	M+2/M+4	1.65	1.69	1.69	1.72	1.71	1.68	1.32-1.78
1,2,3,4,7,8-HxCDF	M+2/M+4	1.24	1.28	1.23	1.25	1.25	1.26	1.05-1.43
1,2,3,6,7,8-HxCDF	M+2/M+4	1.21	1.28	1.22	1.25	1.25	1.25	1.05-1.43
2,3,4,6,7,8-HxCDF	M+2/M+4	1.29	1.20	1.24	1.26	1.23	1.25	1.05-1.43
1,2,3,7,8,9-HxCDF	M+2/M+4	1.28	1.26	1.21	1.24	1.25	1.24	1.05-1.43
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.00	1.00	1.00	1.01	1.02	1.01	0.88-1.20
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.00	0.96	1.01	0.99	1.02	1.01	0.88-1.20
OCDF	M+2/M+4	0.88	0.93	0.91	0.92	0.92	0.93	0.76-1.02

Analyst: _____ Date: 11/19/09

USEPA - ITD

FORM 3D
PCDD/PCDF INITIAL CALIBRATION ION ABUNDANCE RATIOS

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 11/18/09

Instrument ID: FAL3 GC Column ID: DB5

CS0 Data Filename: 18NOV09M S2 CS3 Data Filename: 18NOV09M S1

CS1 Data Filename: 18NOV09M S3 CS4 Data Filename: 18NOV09M S5

CS2 Data Filename: 18NOV09M S4 CS5 Data Filename: 18NOV09M S6

LABELED COMPOUNDS	M/Z'S FORMING RATIO	ION ABUNDANCE RATIOS CS1	CS2	CS3	CS4	CS5	CS6	QC LIMITS
13C-2,3,7,8-TCDD	M/M+2	0.73	0.73	0.73	0.74	0.73	0.74	0.65-0.89
13C-1,2,3,7,8-PeCDD	M+2/M+4	1.63	1.69	1.66	1.60	1.73	1.65	1.32-1.78
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.31	1.36	1.32	1.34	1.33	1.33	1.05-1.43
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.33	1.31	1.31	1.34	1.33	1.33	1.05-1.43
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.06	1.07	1.06	1.09	1.06	1.07	0.88-1.20
13C-OCDD	M+2/M+4	1.01	1.00	0.98	1.02	0.99	1.02	0.76-1.02
13C-2,3,7,8-TCDF	M/M+2	0.81	0.81	0.82	0.82	0.82	0.83	0.65-0.89
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.67	1.68	1.68	1.68	1.70	1.66	1.32-1.78
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.68	1.71	1.66	1.69	1.70	1.70	1.32-1.78
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.48	0.48	0.49	0.49	0.50	0.49	0.43-0.59
13C-1,2,3,6,7,8-HxCDF	M/M+2	0.48	0.48	0.50	0.49	0.49	0.50	0.43-0.59
13C-2,3,4,6,7,8-HxCDF	M/M+2	0.49	0.49	0.50	0.49	0.49	0.49	0.43-0.59
13C-1,2,3,7,8,9-HxCDF	M/M+2	0.49	0.49	0.49	0.49	0.48	0.48	0.43-0.59
13C-1,2,3,4,6,7,8-HpCDF	M/M+2	0.46	0.45	0.46	0.46	0.47	0.46	0.37-0.51
13C-1,2,3,4,7,8,9-HpCDF	M/M+2	0.46	0.45	0.46	0.44	0.46	0.47	0.37-0.51
13C-OCDF	M+2/M+4	0.92	0.92	0.93	0.94	0.92	0.94	0.76-1.02

Analyst: _____ Date: 11/19/09

USEPA - ITD

FORM 4A
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 11/18/09

Instrument ID: FAL3 GC Column ID: DB5

VER Data Filename: 18NOV09M Sam:1 Analysis Date: 18-NOV-09 13:45:10

NATIVE ANALYTES	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL) (3)
2,3,7,8-TCDD	M/M+2	0.76	0.65-0.89	y	10.2	7.80 - 12.9
1,2,3,7,8-PeCDD	M+2/M+4	1.56	1.32-1.78	y	51.6	39.0 - 65.0
1,2,3,4,7,8-HxCDD	M+2/M+4	1.29	1.05-1.43	y	51.2	39.0 - 64.0
1,2,3,6,7,8-HxCDD	M+2/M+4	1.28	1.05-1.43	y	50.1	39.0 - 64.0
1,2,3,7,8,9-HxCDD	M+2/M+4	1.27	1.05-1.43	y	51.1	41.0 - 61.0
1,2,3,4,6,7,8-HpCDD	M+2/M+4	0.95	0.88-1.20	y	49.5	43.0 - 58.0
OCDD	M+2/M+4	0.91	0.76-1.02	y	101	79.0 - 126
2,3,7,8-TCDF	M/M+2	0.66	0.65-0.89	y	9.77	8.40 - 12.0
1,2,3,7,8-PeCDF	M+2/M+4	1.72	1.32-1.78	y	52.6	41.0 - 60.0
2,3,4,7,8-PeCDF	M+2/M+4	1.72	1.32-1.78	y	50.9	41.0 - 60.0
1,2,3,4,7,8-HxCDF	M+2/M+4	1.25	1.05-1.43	y	51.5	45.0 - 56.0
1,2,3,6,7,8-HxCDF	M+2/M+4	1.25	1.05-1.43	y	50.8	44.0 - 57.0
2,3,4,6,7,8-HxCDF	M+2/M+4	1.26	1.05-1.43	y	50.9	44.0 - 57.0
1,2,3,7,8,9-HxCDF	M+2/M+4	1.24	1.05-1.43	y	51.1	45.0 - 56.0
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.01	0.88-1.20	y	51.3	45.0 - 55.0
1,2,3,4,7,8,9-HpCDF	M+2/M+4	0.99	0.88-1.20	y	50.3	43.0 - 58.0
OCDF	M+2/M+4	0.92	0.76-1.02	y	102	63.0 - 159

(1) See Table 8, Method 1613, for m/z specifications.

(2) Ion Abundance Ratio Control Limits as specified in Table 9, Method 1613.

(3) Contract-required concentration range as specified in Table 6, Method 1613.

Analyst: _____ Date: 11/19/09

USEPA - ITD

FORM 4B
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 11/18/09

Instrument ID: FAL3 GC Column ID: DB5

VER Data Filename: 18NOV09M Sam:1 Analysis Date: 18-NOV-09 13:45:10

	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL) (3)
LABELED COMPOUNDS						
13C-2,3,7,8-TCDD	M/M+2	0.74	0.65-0.89	y	102	82.0 - 121
13C-1,2,3,7,8-PeCDD	M+2/M+4	1.60	1.32-1.78	y	98.5	62.0 - 160
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.34	1.05-1.43	y	100	85.0 - 117
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.34	1.05-1.43	y	101	85.0 - 118
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.09	0.88-1.20	y	101	72.0 - 138
13C-OCDD	M+2/M+4	1.02	0.76-1.02	y	207	96.0 - 415
13C-2,3,7,8-TCDF	M/M+2	0.82	0.65-0.89	y	100	71.0 - 140
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.68	1.32-1.78	y	101	76.0 - 130
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.69	1.32-1.78	y	101	77.0 - 130
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.49	0.43-0.59	y	99.5	76.0 - 131
13C-1,2,3,6,7,8-HxCDF	M/M+2	0.49	0.43-0.59	y	101	70.0 - 143
13C-2,3,4,6,7,8-HxCDF	M/M+2	0.49	0.43-0.59	y	102	73.0 - 137
13C-1,2,3,7,8,9-HxCDF	M/M+2	0.49	0.43-0.59	y	102	74.0 - 135
13C-1,2,3,4,6,7,8-HpCDF	M/M+2	0.46	0.37-0.51	y	100	78.0 - 129
13C-1,2,3,4,7,8,9-HpCDF	M/M+2	0.44	0.37-0.51	y	103	77.0 - 129
13C-OCDF	M+2/M+4	0.94	0.76-1.02	y	206	96.0 - 415
CLEANUP STANDARD (4)						
37Cl-2,3,7,8-TCDD					10.0	7.80 - 12.8

(1) See Table 8, Method 1613, for m/z specifications.

(2) Ion Abundance Ratio Control Limits as specified in Table 9, Method 1613.

(3) Contract-required concentration range as specified in Table 6, Method 1613.

(4) No ion abundance ratio; report concentration found.

Analyst: _____ Date: 11/19/09

FORM 5
PCDD/PCDF RT WINDOW AND ISOMER SPECIFICITY STANDARDS

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Instrument ID: FAL3 Initial Calibration Date: 11/18/09

RT Window Data Filename: 18NOV09M Sam:1 Analysis Date: 18-NOV-09 Time: 13:45:10

DB-5 IS Data Filename: 18NOV09M Sam:1 Analysis Date: 18-NOV-09 Time: 13:45:10

DB-225 IS Date Filename: Analysis Date: Time:

DB-5 RT WINDOW DEFINING STANDARDS RESULTS

ISOMERS	ABSOLUTE RT	ISOMERS	ABSOLUTE RT
1,3,6,8-TCDD (F)	24:23	1,3,6,8-TCDF (F)	23:02
1,2,8,9-TCDD (L)	28:20	1,2,8,9-TCDF (L)	28:33
1,2,4,7,9-PeCDD (F)	30:15	1,3,4,6,8-PeCDF (F)	28:26
1,2,3,8,9-PeCDD (L)	33:49	1,2,3,8,9-PeCDF (L)	34:14
1,2,4,6,7,9-HxCDD (F)	36:09	1,2,3,4,6,8-HxCDF (F)	35:16
1,2,3,7,8,9-HxCDD (L)	39:14	1,2,3,7,8,9-HxCDF (L)	39:48
1,2,3,4,6,7,9-HpCDD (F)	42:51	1,2,3,4,6,7,8-HpCDF (F)	42:19
1,2,3,4,6,7,8-HpCDD (L)	44:14	1,2,3,4,7,8,9-HpCDF (L)	45:09

(F) = First eluting iosmer (DB-5); (L) = Last eluting isomer (DB-5)

ISOMER SPECIFICITY (IS) TEST STANDARD RESULTS

COMPARED PEAKS (1)	% VALLEY HEIGHT BETWEEN
	<25%

(1) To meet contract requirement, %Valley Height Between Compared Peaks shall not exceed 25% (section 15.4.2.2, Method 1613).

Analyst: _____ Date: 11/19/09

USEPA - ITD

FORM 6A
PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.: Init. Cal. Date: 11/18/09

Instrument ID: FAL3 GC Column ID: DB5

Analysis Date: 18-NOV-09 13:45:10 CS3 or VER Data Filename: 18NOV09M Sam:1

NATIVE ANALYTES	RETENTION TIME REFERENCE	RRT	RRT QC LIMITS (1)
2,3,7,8-TCDD	13C-2,3,7,8-TCDD	1.001	0.999-1.002
2,3,7,8-TCDF	13C-2,3,7,8-TCDF	1.001	0.999-1.003
1,2,3,7,8-PeCDD	13C-1,2,3,7,8-PeCDD	1.001	0.999-1.002
1,2,3,7,8-PeCDF	13C-1,2,3,7,8-PeCDF	1.001	0.999-1.002
2,3,4,7,8-PeCDF	13C-2,3,4,7,8-PeCDF	1.001	0.999-1.002
LABELED COMPOUNDS			
37Cl-2,3,7,8-TCDD	13C-1,2,3,4-TCDD	1.023	0.989-1.052
13C-2,3,7,8-TCDD		1.021	0.976-1.043
13C-2,3,7,8-TCDF		0.993	0.923-1.103
13C-1,2,3,7,8-PeCDD		1.239	1.000-1.567
13C-1,2,3,7,8-PeCDF		1.174	0.923-1.203
13C-2,3,4,7,8-PeCDF		1.224	0.923-1.303

(1) Contract-required limits for Relative Retention Times (RRT) as specified in Table 2, Method 1613.

Analyst: _____ Date: 11/19/09

USEPA - ITD

FORM 6B
PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.: Init. Cal. Date: 11/18/09

Instrument ID: FAL3 GC Column ID: DB5

Analysis Date: 18-NOV-09 13:45:10 CS3 or VER Data Filename: 18NOV09M Sam:1

NATIVE ANALYTES	RETENTION TIME REFERENCE	RRT	RRT QC LIMITS (1)
1,2,3,4,7,8-HxCDD	13C-1,2,3,4,7,8-HxCDD	1.000	0.999-1.001
1,2,3,6,7,8-HxCDD	13C-1,2,3,6,7,8-HxCDD	1.001	0.998-1.004
1,2,3,7,8,9-HxCDD	13C-1,2,3,6,7,8-HxCDD	1.012	1.000-1.019
1,2,3,4,7,8-HxCDF	13C-1,2,3,4,7,8-HxCDF	1.001	0.999-1.001
1,2,3,6,7,8-HxCDF	13C-1,2,3,6,7,8-HxCDF	1.001	0.997-1.005
2,3,4,6,7,8-HxCDF	13C-2,3,4,6,7,8-HxCDF	1.000	0.999-1.001
1,2,3,7,8,9-HxCDF	13C-1,2,3,7,8,9-HxCDF	1.001	0.999-1.001
1,2,3,4,6,7,8-HpCDD	13C-1,2,3,4,6,7,8-HpCDD	1.000	0.999-1.001
1,2,3,4,6,7,8-HpCDF	13C-1,2,3,4,6,7,8-HpCDF	1.000	0.999-1.001
1,2,3,4,7,8,9-HpCDF	13C-1,2,3,4,7,8,9-HpCDF	1.000	0.999-1.001
OCDD	13C-OCDD	1.001	0.999-1.001
OCDF	13C-OCDF	1.000	0.999-1.001
LABELED COMPOUNDS			
13C-1,2,3,4,7,8-HxCDD	13C-1,2,3,7,8,9-HxCDD	0.985	0.977-1.000
13C-1,2,3,6,7,8-HxCDD		0.988	0.981-1.003
13C-1,2,3,4,7,8-HxCDF		0.949	0.944-0.970
13C-1,2,3,6,7,8-HxCDF		0.954	0.949-0.975
13C-2,3,4,6,7,8-HxCDF		0.978	0.959-1.021
13C-1,2,3,7,8,9-HxCDF		1.014	0.977-1.047
13C-1,2,3,4,6,7,8-HpCDD		1.128	1.086-1.130
13C-1,2,3,4,6,7,8-HpCDF		1.079	1.043-1.085
13C-1,2,3,4,7,8,9-HpCDF		1.151	1.057-1.154
13C-OCDD		1.270	1.032-1.311
13C-OCDF		1.280	1.000-1.311

(1) Contract-required limits for Relative Retention Times (RRT) as specified in Table 2, Method 1613.

Analyst: _____ Date: 11/19/09

FAL ID: ST111809M3 Filename: 18NOV09M Sam:1 Acquired: 18-NOV-09 13:45:10 ICal: PCDDFAL3-11-18-09
Client ID: 1613 CS3 090918J ConCal: ST111809M3 EndCal: ST111809M6
Results: GC Column: DB5 Amount: 1.000 NATO 1989 Tox: 103
WHO 1998 Tox: 128 WHO 2005 Tox: 117

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL
2,3,7,8-TCDD	2.56e+06	0.76 y	27:24	1.02	10.2		2.50	-	-	*
1,2,3,7,8-PeCDD	1.28e+07	1.56 y	33:14	0.96	51.6		2.50	-	-	*
1,2,3,4,7,8-HxCDD	1.38e+07	1.29 y	38:36	1.37	51.2		2.50	-	-	*
1,2,3,6,7,8-HxCDD	1.26e+07	1.28 y	38:47	1.34	50.1		2.50	-	-	*
1,2,3,7,8,9-HxCDD	1.34e+07	1.27 y	39:14	1.37	51.1		2.50	-	-	*
1,2,3,4,6,7,8-HpCDD	1.05e+07	0.95 y	44:14	1.17	49.5		2.50	-	-	*
OCDD	1.68e+07	0.91 y	49:49	1.21	101		2.50	-	-	*
2,3,7,8-TCDF	5.06e+06	0.66 y	26:38	1.29	9.77		2.50	-	-	*
1,2,3,7,8-PeCDF	1.89e+07	1.72 y	31:30	0.89	52.6		2.50	-	-	*
2,3,4,7,8-PeCDF	1.80e+07	1.72 y	32:49	0.91	50.9		2.50	-	-	*
1,2,3,4,7,8-HxCDF	1.75e+07	1.25 y	37:13	1.00	51.5		2.50	-	-	*
1,2,3,6,7,8-HxCDF	1.87e+07	1.25 y	37:25	0.92	50.8		2.50	-	-	*
2,3,4,6,7,8-HxCDF	1.77e+07	1.26 y	38:21	0.99	50.9		2.50	-	-	*
1,2,3,7,8,9-HxCDF	1.70e+07	1.24 y	39:48	1.09	51.1		2.50	-	-	*
1,2,3,4,6,7,8-HpCDF	1.53e+07	1.01 y	42:19	1.36	51.3		2.50	-	-	*
1,2,3,4,7,8,9-HpCDF	1.40e+07	0.99 y	45:09	1.61	50.3		2.50	-	-	*
OCDF	2.08e+07	0.92 y	50:11	0.84	102		2.50	-	-	*
										Rec
13C-2,3,7,8-TCDD	2.46e+07	0.74 y	27:22	0.94	102					102
13C-1,2,3,7,8-PeCDD	2.58e+07	1.60 y	33:13	1.02	98.5					98.5
13C-1,2,3,4,7,8-HxCDD	1.96e+07	1.34 y	38:36	0.98	100					100
13C-1,2,3,6,7,8-HxCDD	1.88e+07	1.34 y	38:45	0.94	101					101
13C-1,2,3,4,6,7,8-HpCDD	1.81e+07	1.09 y	44:13	0.90	101					101
13C-OCDD	2.74e+07	1.02 y	49:48	0.67	207					103
13C-2,3,7,8-TCDF	4.03e+07	0.82 y	26:37	0.88	100					100
13C-1,2,3,7,8-PeCDF	4.03e+07	1.68 y	31:28	0.88	101					101
13C-2,3,4,7,8-PeCDF	3.90e+07	1.69 y	32:47	0.85	101					101
13C-1,2,3,4,7,8-HxCDF	3.40e+07	0.49 y	37:11	1.72	99.5					99.5
13C-1,2,3,6,7,8-HxCDF	4.01e+07	0.49 y	37:24	2.00	101					101
13C-2,3,4,6,7,8-HxCDF	3.52e+07	0.49 y	38:20	1.74	102					102
13C-1,2,3,7,8,9-HxCDF	3.06e+07	0.49 y	39:46	1.51	102					102
13C-1,2,3,4,6,7,8-HpCDF	2.19e+07	0.46 y	42:18	1.10	100					100
13C-1,2,3,4,7,8,9-HpCDF	1.74e+07	0.44 y	45:08	0.85	103					103
13C-OCDF	4.82e+07	0.94 y	50:10	1.17	206					103
37Cl-2,3,7,8-TCDD	2.51e+06		27:24	0.97	10.0					100
13C-1,2,3,4-TCDD	2.57e+07	0.74 y	26:48	-	98.3					
13C-1,2,3,4-TCDF	4.56e+07	0.81 y	25:32	-	98.8					
13C-1,2,3,7,8,9-HxCDD	1.99e+07	1.34 y	39:12	-	97.0					

						Fac	Noise-1	Noise-2	DL		#Hom
Total Tetra-Dioxins	1.39e+07		24:23	1.02	55.3	2.50	-	-	*		20
Total Penta-Dioxins	2.72e+07		30:15	0.96	110	2.50	-	-	*		13
Total Hexa-Dioxins	4.52e+07		36:09	1.36	173	2.50	-	-	*		14
Total Hepta-Dioxins	2.21e+07		42:51	1.17	105	2.50	-	-	*		10
Total Tetra-Furans	2.16e+07		23:02	1.29	41.7	2.50	-	-	*		18
1st Fn. Tot Penta-Furans	1.85e+07		28:26	0.90	51.9	2.50	-	-	*	PeCDF	1
Total Penta-Furans	5.36e+07		30:11	0.90	151	2.50	-	-	*	203	9
Total Hexa-Furans	8.22e+07		35:16	0.99	237	2.50	-	-	*		15
Total Hepta-Furans	2.95e+07		42:19	1.47	102	2.50	-	-	*		4

Analyst: _____ Date: 11/19/09

Frontier Analytical Laboratory - Acquisition Log

Run Name:18NOV09M Instrument: FAL3 GC: DB5 Experiment:PCDD

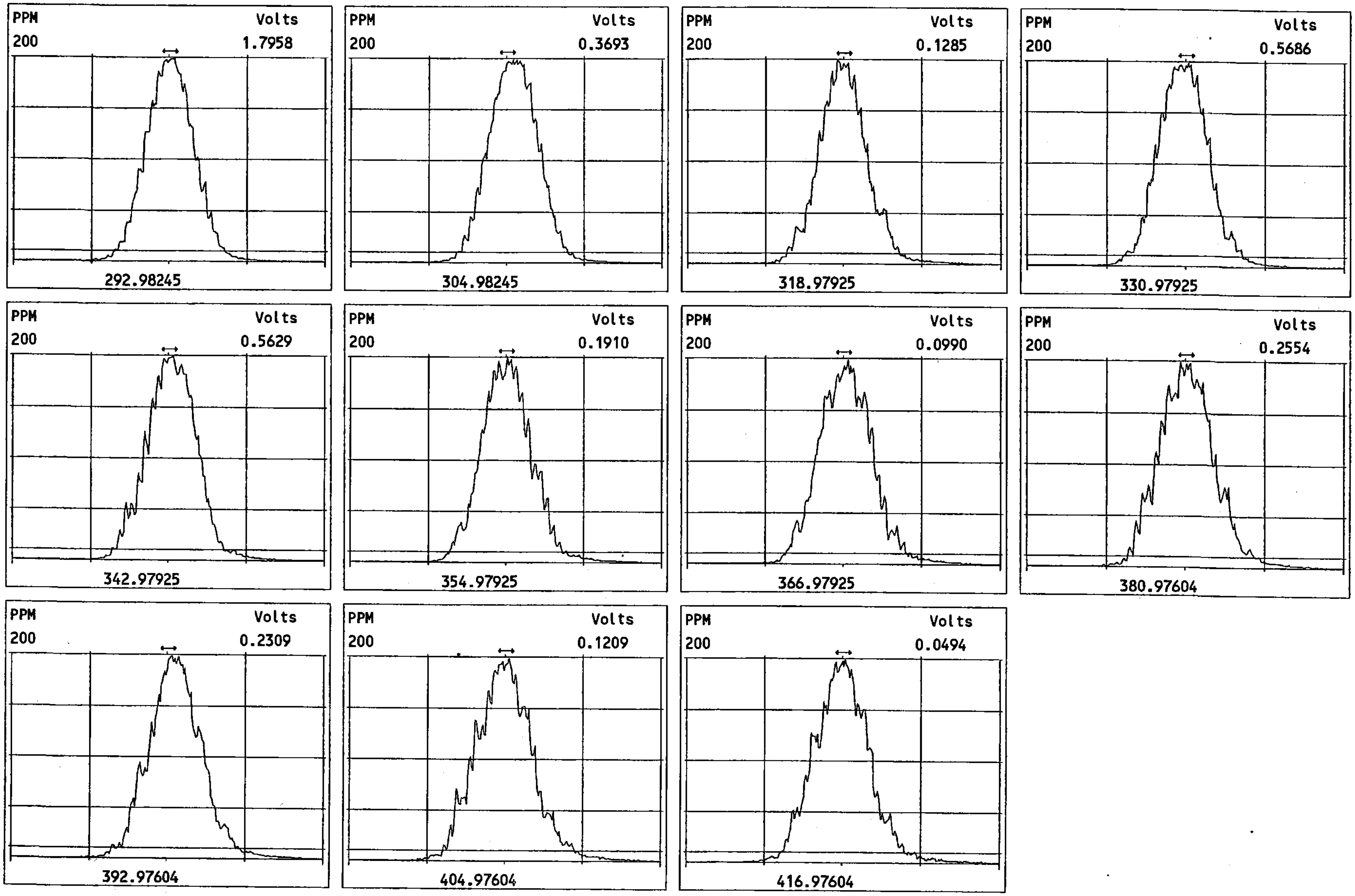
Data File	S	FAL ID	Client ID	Acquired	ConCal	EndCal	Analyst
18NOV09M	1	ST111809M3	1613 CS3 090918J	18-NOV-09 13:45:10	ST111809M3	ST111809M6	BS
18NOV09M	2	ST111809M0	1613 CS0 090918G	18-NOV-09 14:40:53	ST111809M3	ST111809M6	BS
18NOV09M	3	ST111809M1	1613 CS1 090918H	18-NOV-09 15:36:11	ST111809M3	ST111809M6	BS
18NOV09M	4	ST111809M2	1613 CS2 090918I	18-NOV-09 16:31:26	ST111809M3	ST111809M6	BS
18NOV09M	5	ST111809M4	1613 CS4 090918K	18-NOV-09 17:26:40	ST111809M3	ST111809M6	BS
18NOV09M	6	ST111809M5	1613 CS5 090918L	18-NOV-09 18:21:58	ST111809M3	ST111809M6	BS
18NOV09M	7	SB111809M1	Solvent Blank	18-NOV-09 19:17:18	ST111809M3	ST111809M6	BS
18NOV09M	8	1882-001-0001-OPR	OPR	18-NOV-09 20:12:37	ST111809M3	ST111809M6	BS
18NOV09M	9	1882-001-0001-MB	Method Blank	18-NOV-09 21:07:56	ST111809M3	ST111809M6	BS
18NOV09M	10	5820-009-0001-SA	EDS-114-106+69-C1-0.7	18-NOV-09 22:03:10	ST111809M3	ST111809M6	BS
18NOV09M	11	5820-014-0001-SA	EDS-116-105+86-W2-7.1	18-NOV-09 22:58:30	ST111809M3	ST111809M6	BS
18NOV09M	12	5820-002-0001-SA	EDS-119-106+09-W3-5.2	18-NOV-09 23:53:48	ST111809M3	ST111809M6	BS
18NOV09M	13	5820-011-0001-SA	EDS-105-106+69-W2-6.0	19-NOV-09 00:49:06	ST111809M3	ST111809M6	BS
18NOV09M	14	SB111809M2	Solvent Blank	19-NOV-09 01:44:25	ST111809M3	ST111809M6	BS
18NOV09M	15	SB111809M3	Solvent Blank	19-NOV-09 02:39:43	ST111809M3	ST111809M6	BS
18NOV09M	16	ST111809M6	1613 CS3 090918J	19-NOV-09 03:35:00	ST111809M6	ST111809M7	BS
18NOV09M	17	5820-003-0001-SA	EDS-117-105+86-W3-4.9	19-NOV-09 04:30:11	ST111809M6	ST111809M7	BS
18NOV09M	18	5820-006-0001-SA	EDS-118-106+09-W2-5.7	19-NOV-09 05:25:26	ST111809M6	ST111809M7	BS
18NOV09M	19	5820-010-0001-SA	EDS-104-106+69-W1-5.5	19-NOV-09 06:20:41	ST111809M6	ST111809M7	BS
18NOV09M	20	5820-008-0001-SA	EDS-120-106+09-W4-6.4	19-NOV-09 07:16:00	ST111809M6	ST111809M7	BS
18NOV09M	21	5820-007-0001-SA	EDS-113-106+44-W8-7.6	19-NOV-09 08:11:14	ST111809M6	ST111809M7	BS
18NOV09M	22	5820-004-0001-SA	EDS-107-106+69-W4-7.5	19-NOV-09 09:06:32	ST111809M6	ST111809M7	BS
18NOV09M	23	5820-001-0001-SA	EDS-115-105+86-W1-5.8	19-NOV-09 10:01:51	ST111809M6	ST111809M7	BS
18NOV09M	24	5820-005-0001-SA	EDS-106-106+69-W3-7.0	19-NOV-09 10:57:09	ST111809M6	ST111809M7	BS
18NOV09M	25	SB111809M4	Solvent Blank	19-NOV-09 11:52:24	ST111809M6	ST111809M7	BS
18NOV09M	26	SB111809M5	Solvent Blank	19-NOV-09 12:47:43	ST111809M6	ST111809M7	BS
18NOV09M	27	ST111809M7	1613 CS3 090918J	19-NOV-09 13:43:06	ST111809M6	ST111809M7	BS

DN 11/19/09

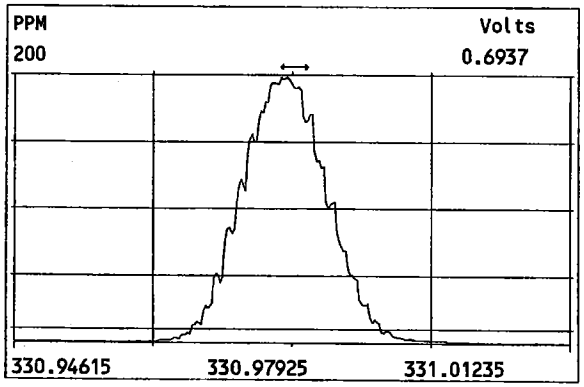
Data Backed Up:_____

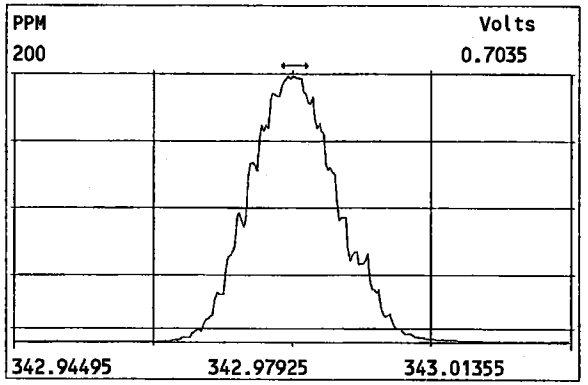
Date:_____

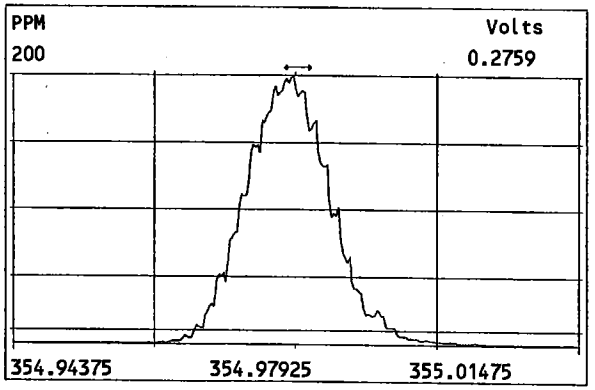
Peak Locate Examination:18-NOV-2009:13:42 File:18NOV09M
Experiment:PCDD Function:1 Reference:PFK

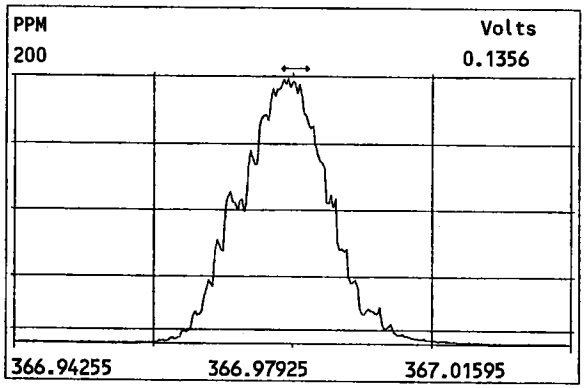


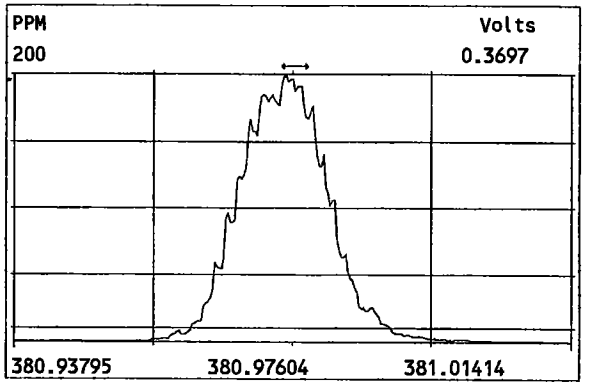
Peak Locate Examination:18-NOV-2009:13:43 File:18NOV09M
Experiment:PCDD Function:2 Reference:PFK

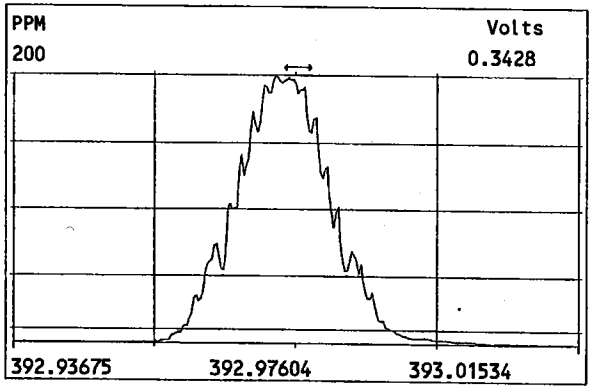


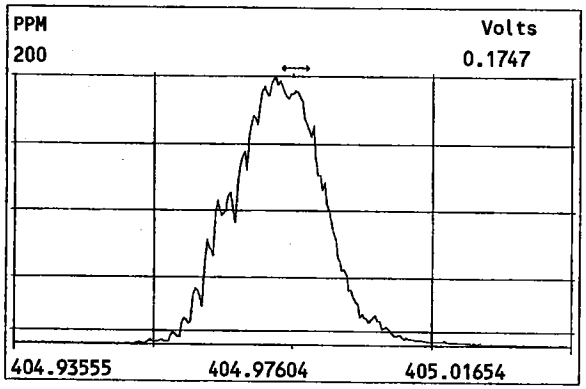


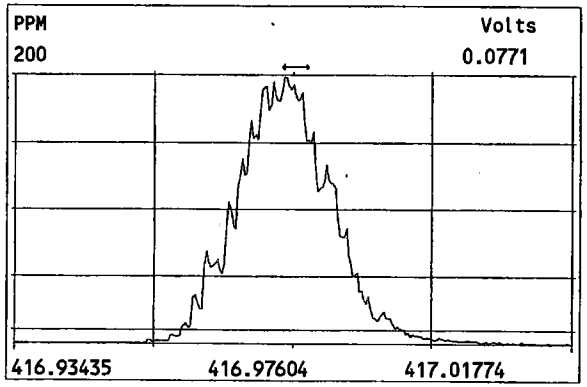




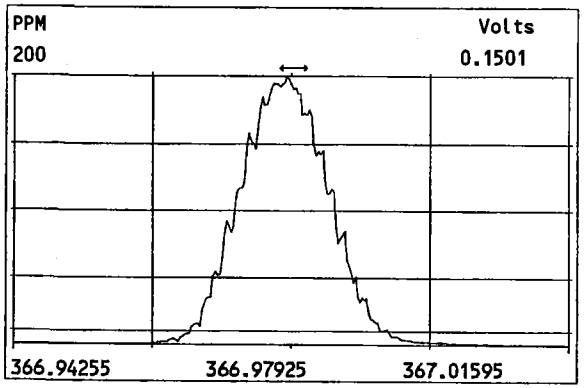


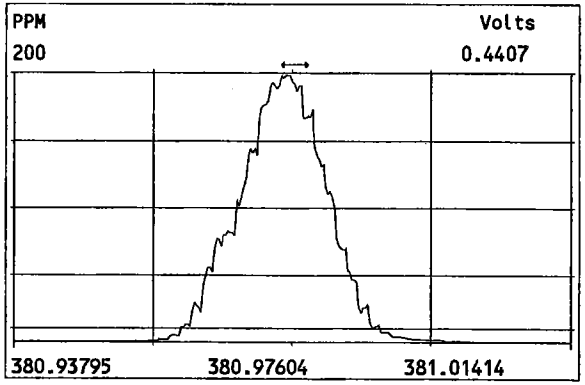


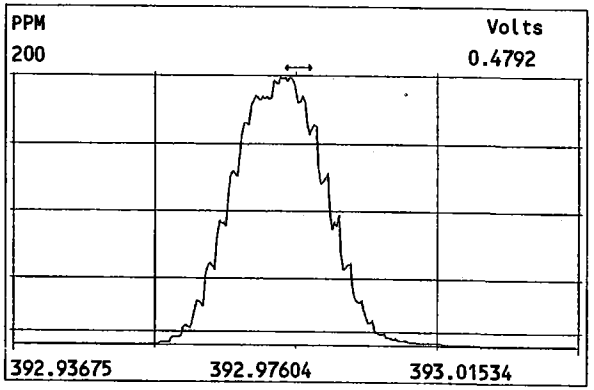


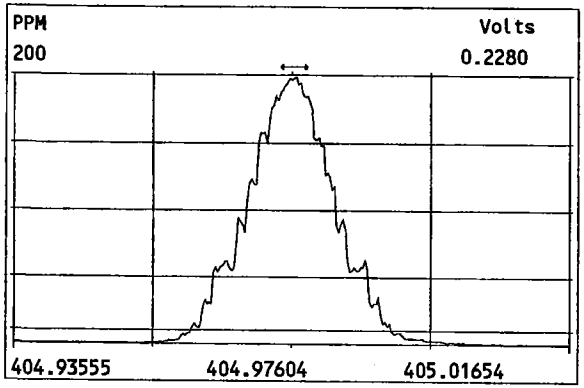


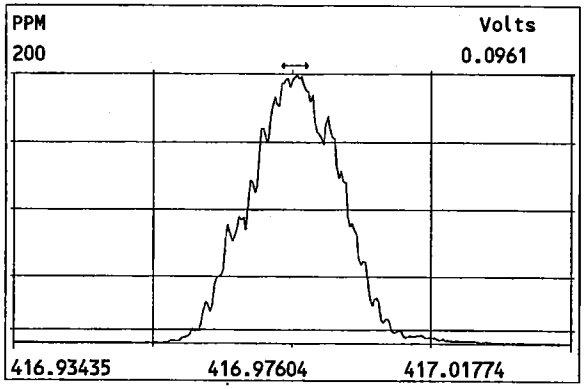
Peak Locate Examination:18-NOV-2009:13:43 File:18NOV09M
Experiment:PCDD Function:3 Reference:PFK

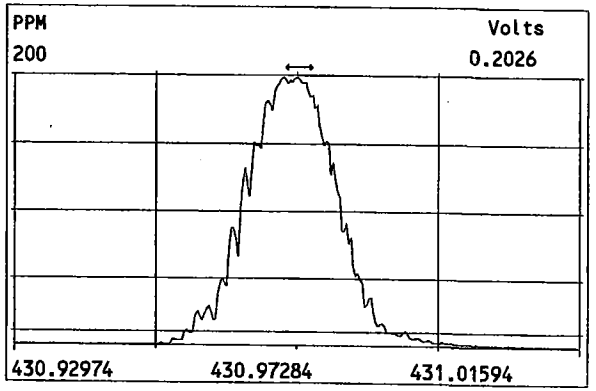


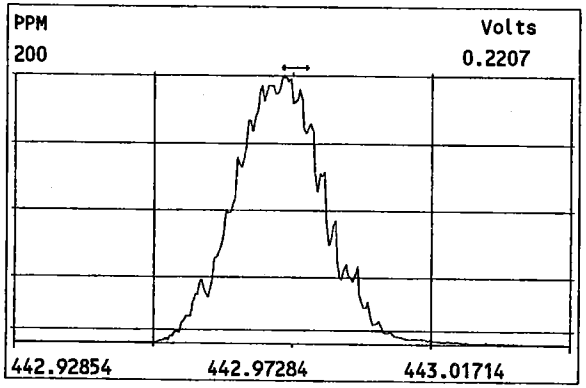


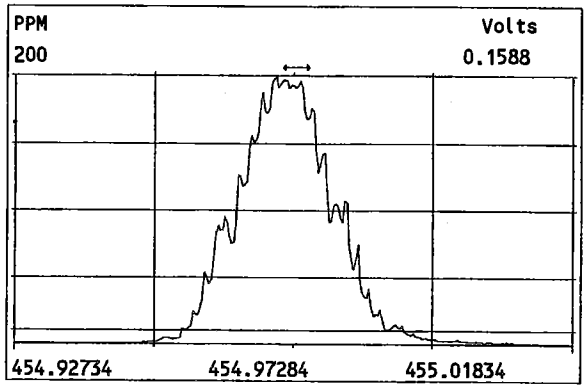






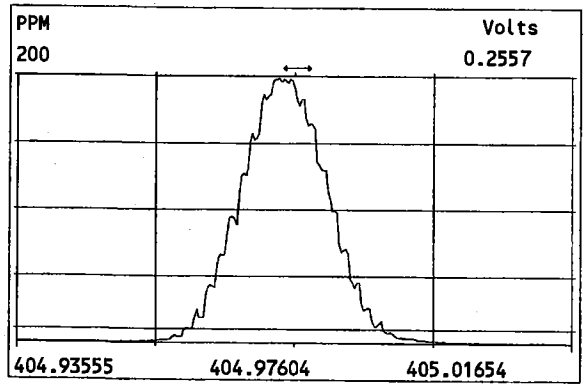


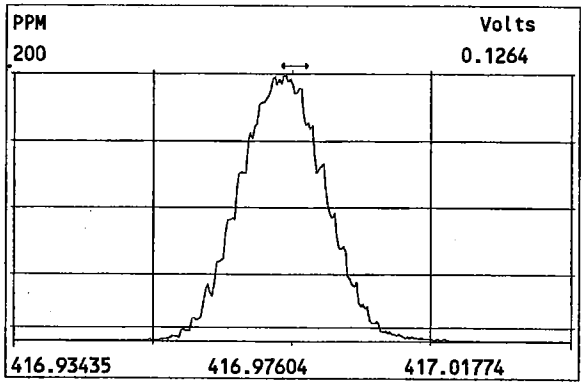


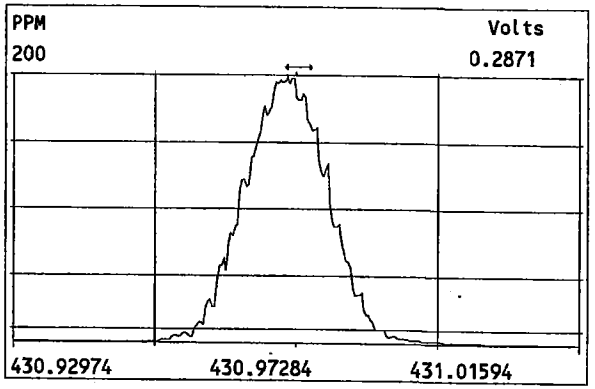


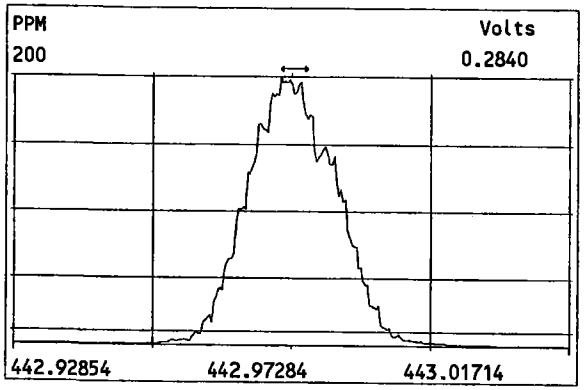
Peak Locate Examination:18-NOV-2009:13:44 File:18NOV09M

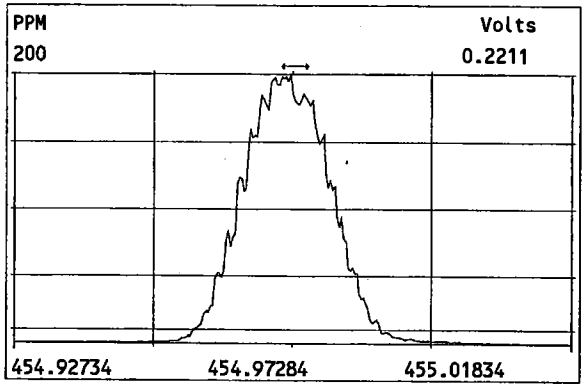
Experiment:PCDD Function:4 Reference:PFK

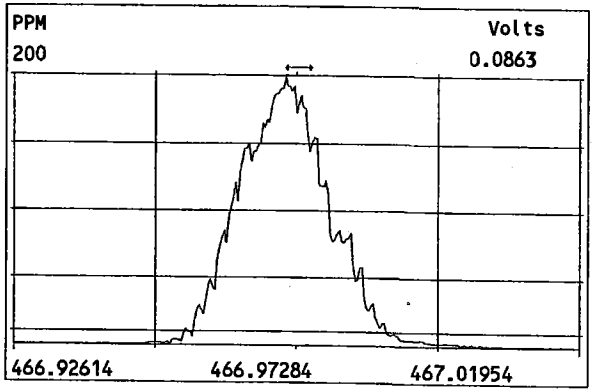


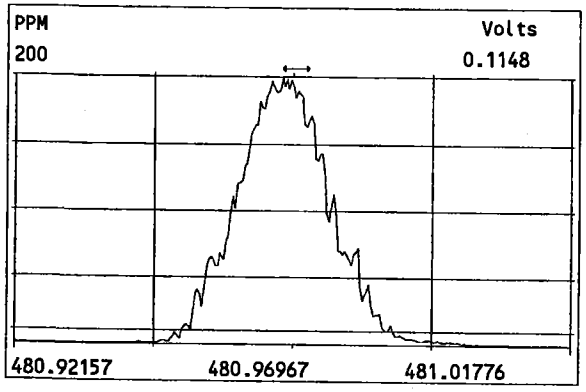




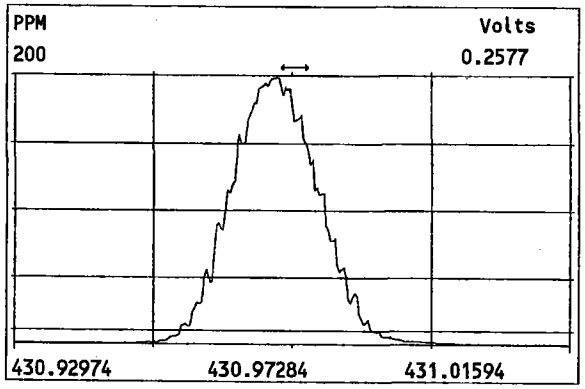


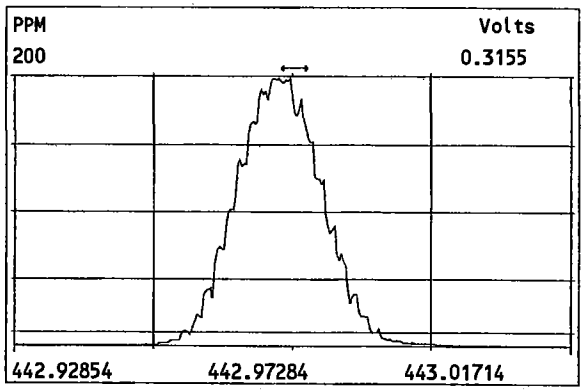


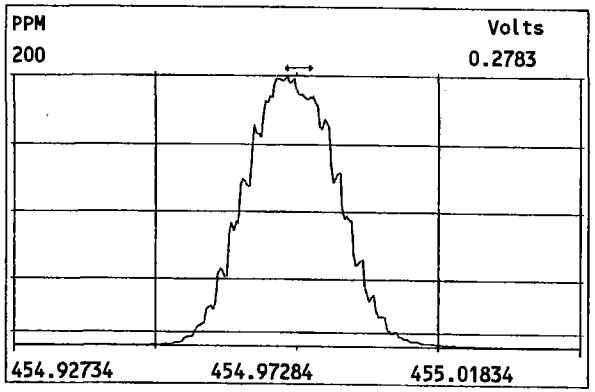


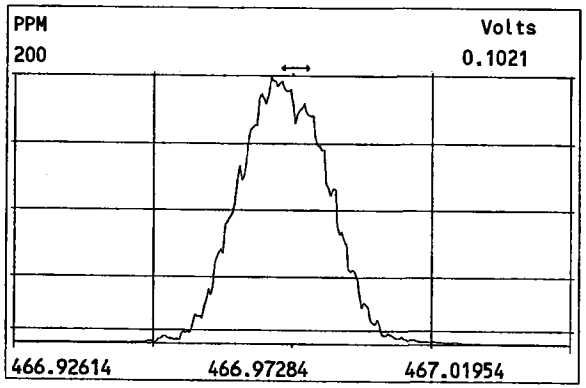


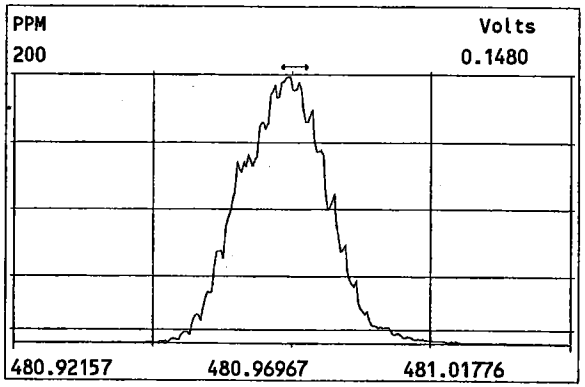
Peak Locate Examination:18-NOV-2009:13:44 File:18NOV09M
Experiment:PCDD Function:5 Reference:PFK

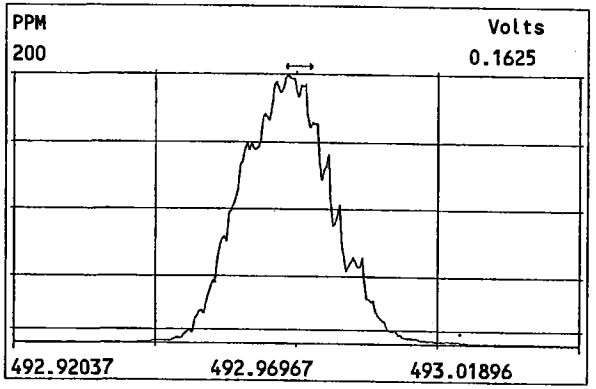


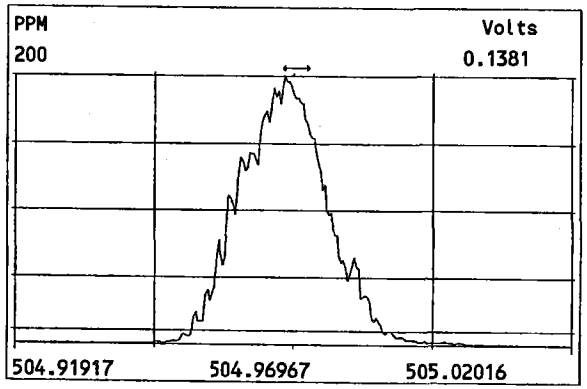


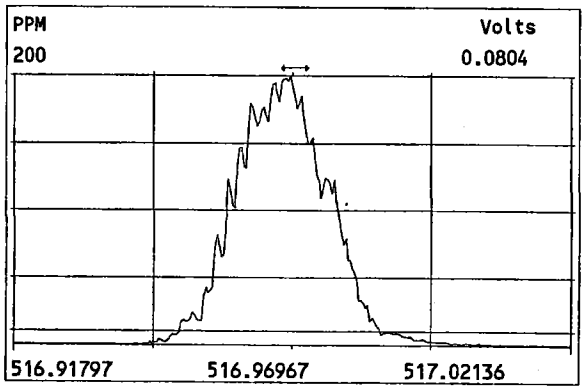




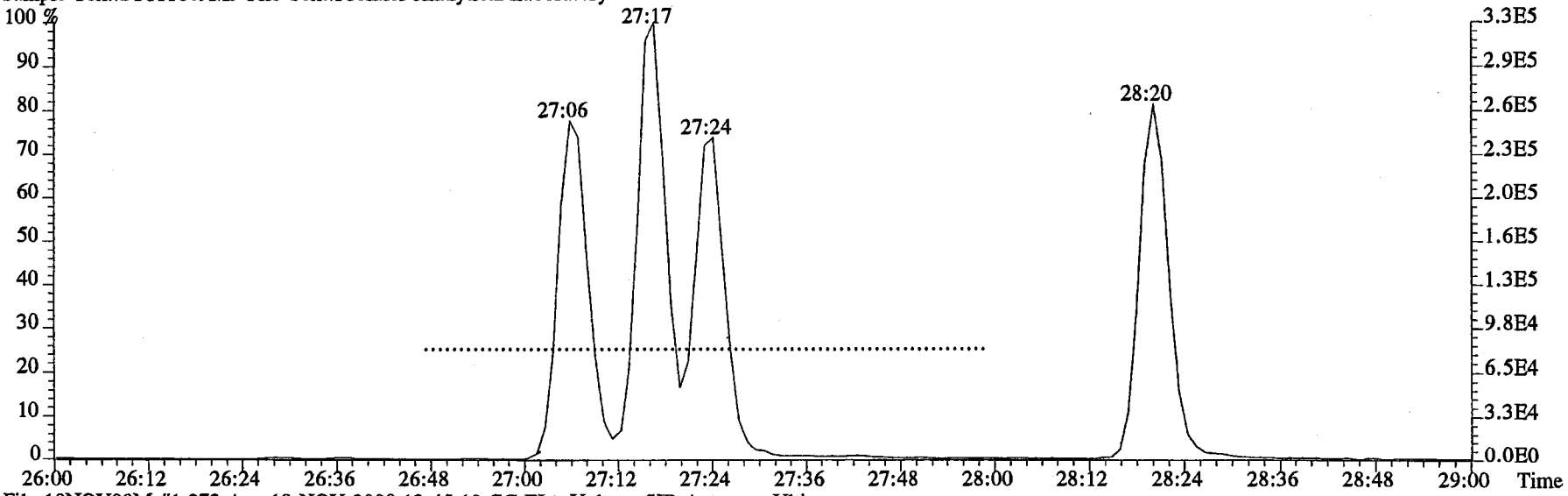




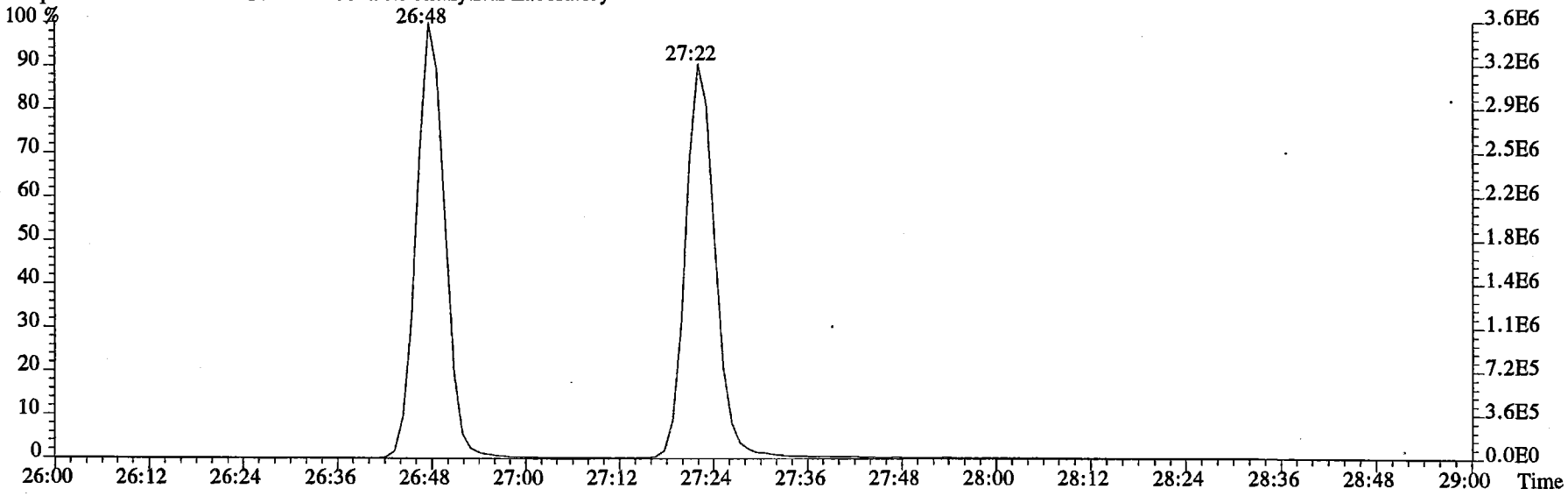




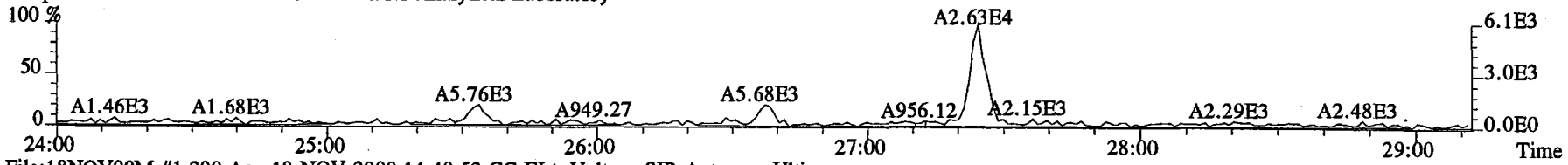
File:18NOV09M #1-372 Acq:18-NOV-2009 13:45:10 GC EI+ Voltage SIR Autospec-Ultima
319.8965 Exp:PCDD
Sample Text:ST111809M3 File Text:Frontier Analytical Laboratory



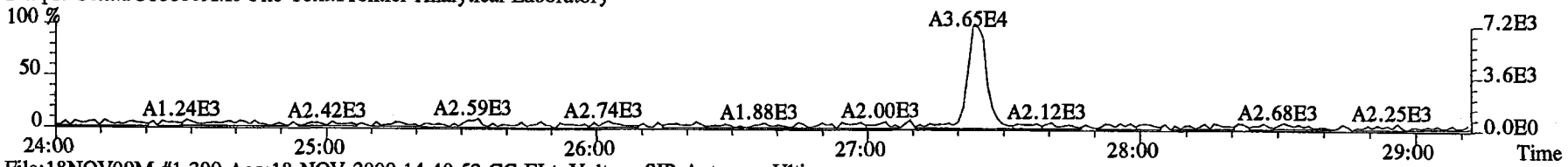
File:18NOV09M #1-372 Acq:18-NOV-2009 13:45:10 GC EI+ Voltage SIR Autospec-Ultima
333.9339 Exp:PCDD
Sample Text:ST111809M3 File Text:Frontier Analytical Laboratory



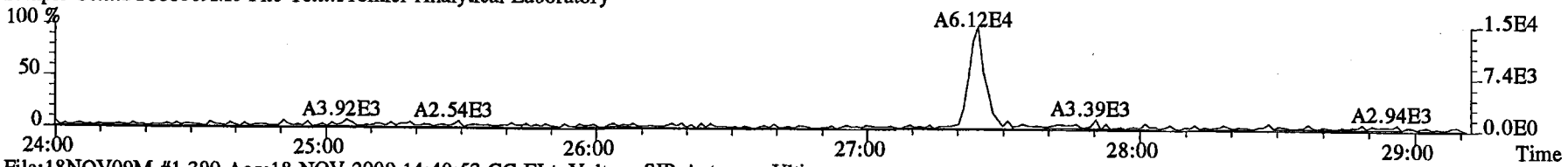
File:18NOV09M #1-390 Acq:18-NOV-2009 14:40:53 GC EI+ Voltage SIR Autospec-Ultima
319.8965 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory



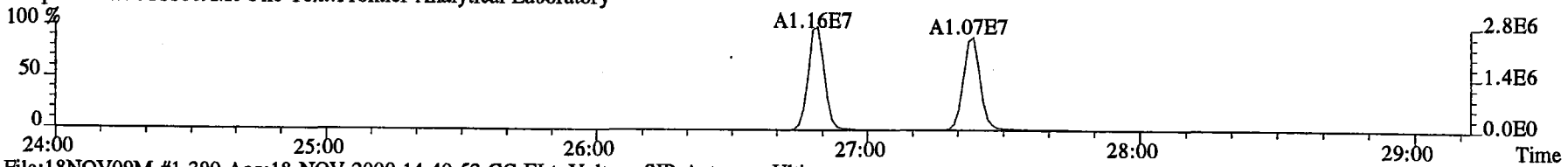
File:18NOV09M #1-390 Acq:18-NOV-2009 14:40:53 GC EI+ Voltage SIR Autospec-Ultima
321.8936 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory



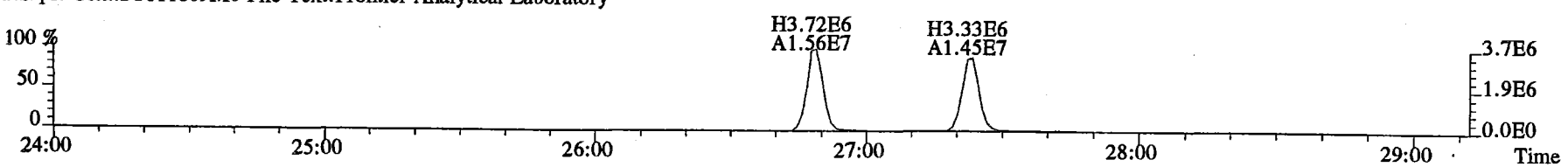
File:18NOV09M #1-390 Acq:18-NOV-2009 14:40:53 GC EI+ Voltage SIR Autospec-Ultima
327.8847 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory



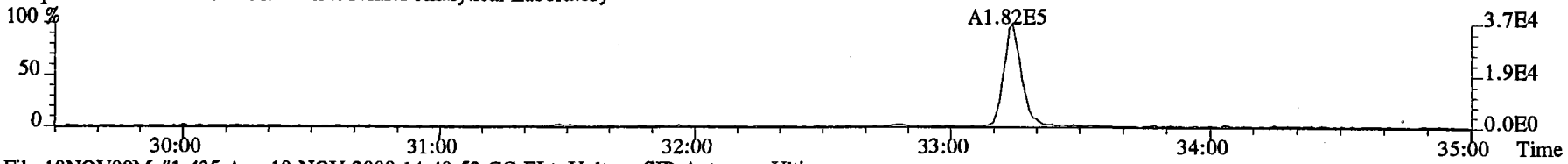
File:18NOV09M #1-390 Acq:18-NOV-2009 14:40:53 GC EI+ Voltage SIR Autospec-Ultima
331.9368 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory



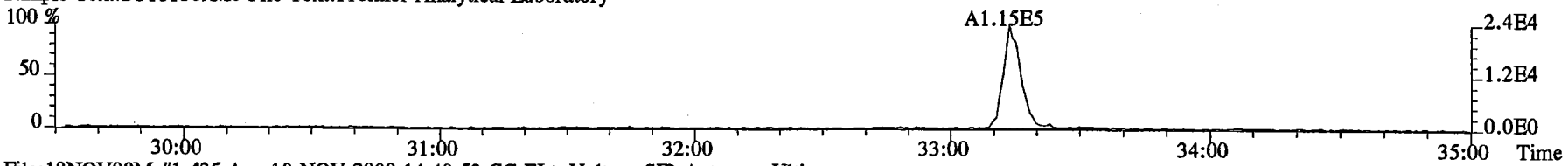
File:18NOV09M #1-390 Acq:18-NOV-2009 14:40:53 GC EI+ Voltage SIR Autospec-Ultima
333.9339 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory



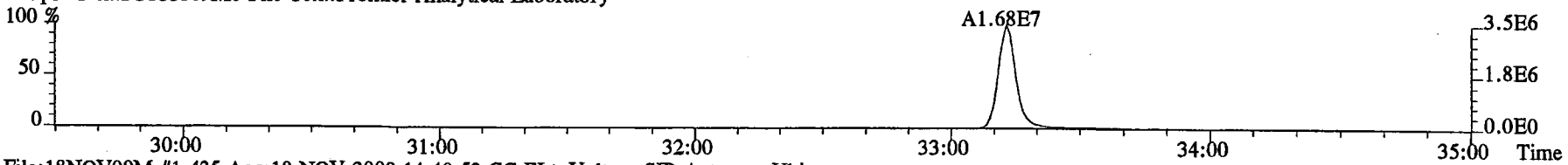
File:18NOV09M #1-425 Acq:18-NOV-2009 14:40:53 GC EI+ Voltage SIR Autospec-Ultima
355.8546 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory



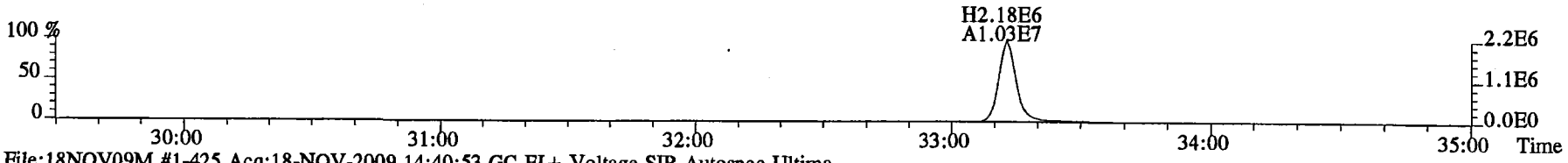
File:18NOV09M #1-425 Acq:18-NOV-2009 14:40:53 GC EI+ Voltage SIR Autospec-Ultima
357.8517 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory



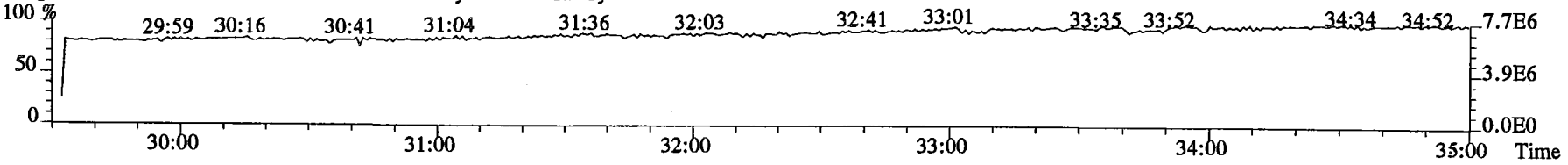
File:18NOV09M #1-425 Acq:18-NOV-2009 14:40:53 GC EI+ Voltage SIR Autospec-Ultima
367.8949 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory



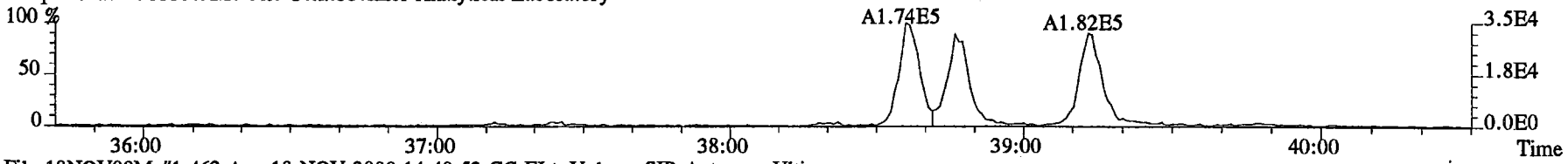
File:18NOV09M #1-425 Acq:18-NOV-2009 14:40:53 GC EI+ Voltage SIR Autospec-Ultima
369.8919 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory



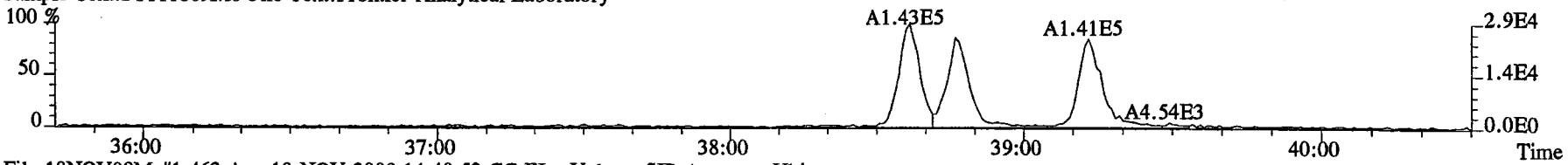
File:18NOV09M #1-425 Acq:18-NOV-2009 14:40:53 GC EI+ Voltage SIR Autospec-Ultima
366.9792 S:2 F:2 Exp:PCDD
Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory



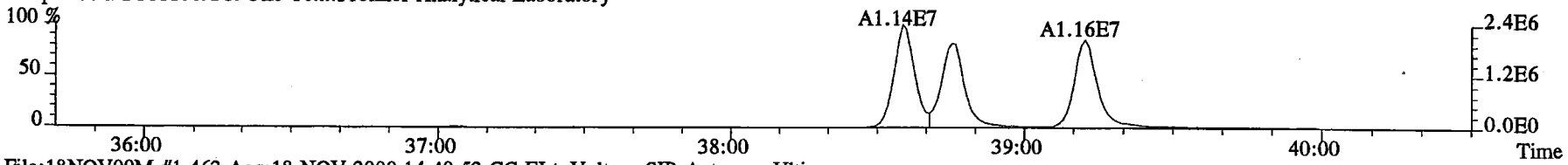
File:18NOV09M #1-463 Acq:18-NOV-2009 14:40:53 GC EI+ Voltage SIR Autospec-Ultima
389.8156 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory



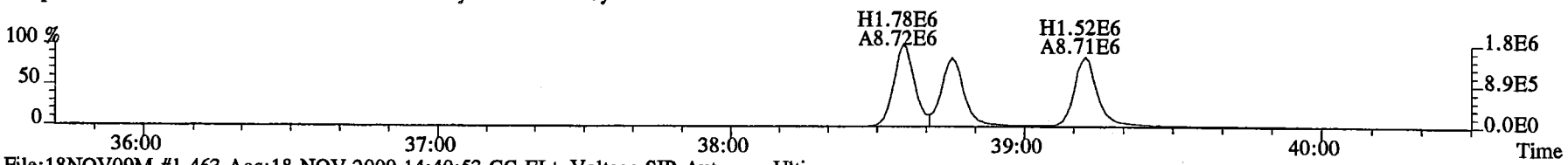
File:18NOV09M #1-463 Acq:18-NOV-2009 14:40:53 GC EI+ Voltage SIR Autospec-Ultima
391.8127 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory



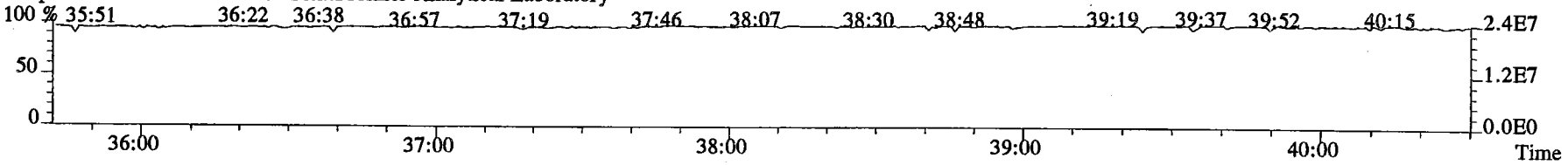
File:18NOV09M #1-463 Acq:18-NOV-2009 14:40:53 GC EI+ Voltage SIR Autospec-Ultima
401.8559 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory



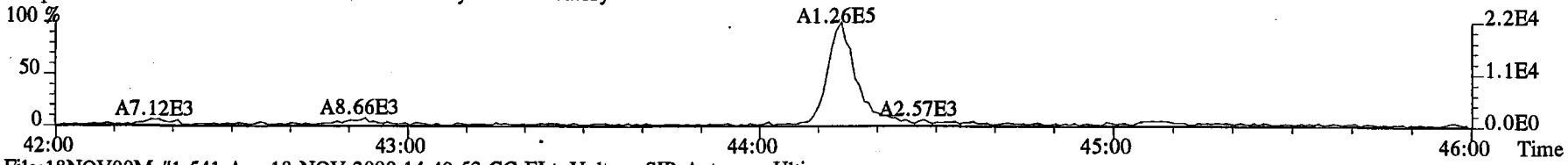
File:18NOV09M #1-463 Acq:18-NOV-2009 14:40:53 GC EI+ Voltage SIR Autospec-Ultima
403.8530 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory



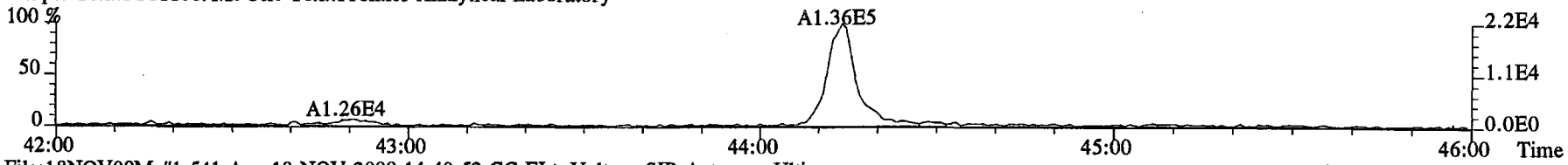
File:18NOV09M #1-463 Acq:18-NOV-2009 14:40:53 GC EI+ Voltage SIR Autospec-Ultima
380.9760 S:2 F:3 Exp:PCDD
Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory



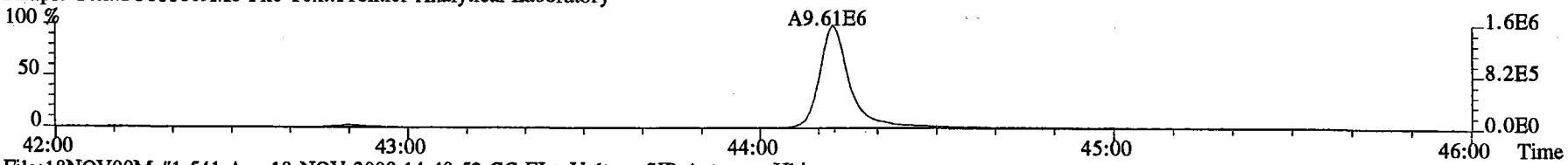
File:18NOV09M #1-541 Acq:18-NOV-2009 14:40:53 GC EI+ Voltage SIR Autospec-Ultima
423.7767 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory



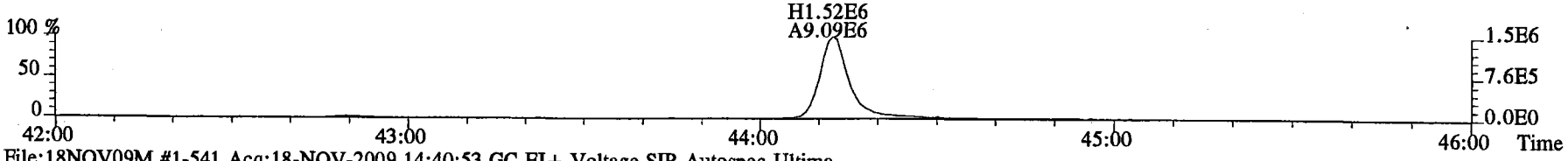
File:18NOV09M #1-541 Acq:18-NOV-2009 14:40:53 GC EI+ Voltage SIR Autospec-Ultima
425.7737 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory



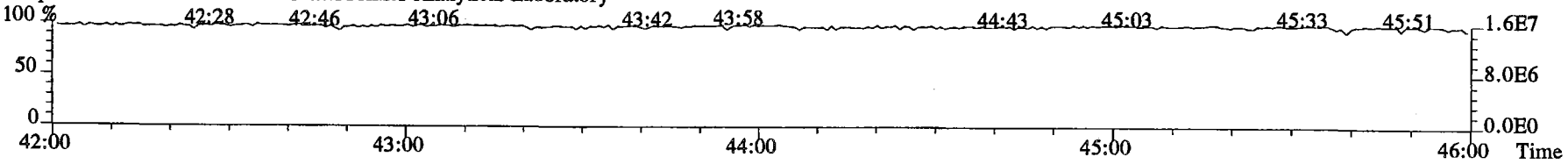
File:18NOV09M #1-541 Acq:18-NOV-2009 14:40:53 GC EI+ Voltage SIR Autospec-Ultima
435.8169 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory



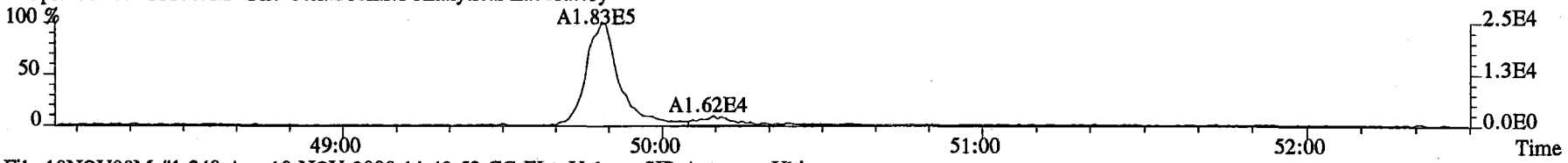
File:18NOV09M #1-541 Acq:18-NOV-2009 14:40:53 GC EI+ Voltage SIR Autospec-Ultima
437.8140 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory



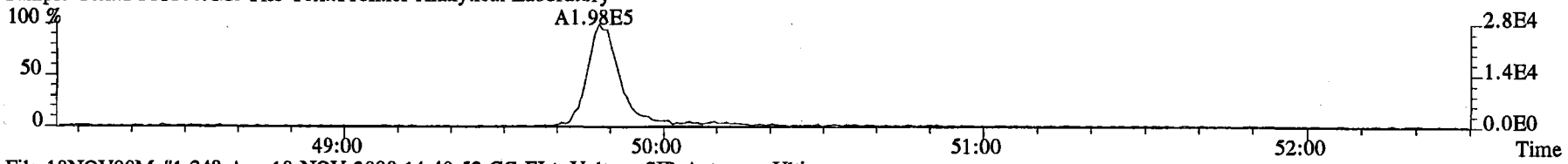
File:18NOV09M #1-541 Acq:18-NOV-2009 14:40:53 GC EI+ Voltage SIR Autospec-Ultima
430.9728 S:2 F:4 Exp:PCDD
Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory



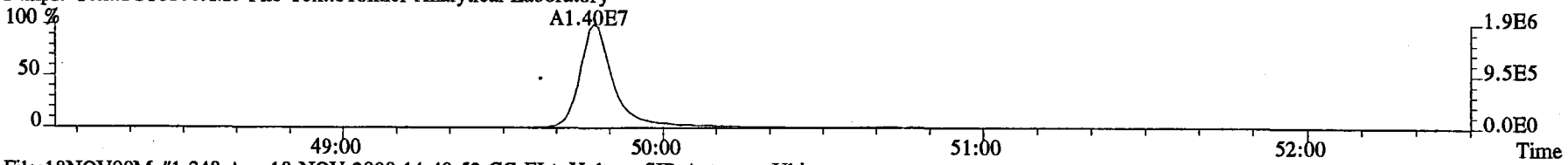
File:18NOV09M #1-348 Acq:18-NOV-2009 14:40:53 GC EI+ Voltage SIR Autospec-Ultima
457.7377 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory



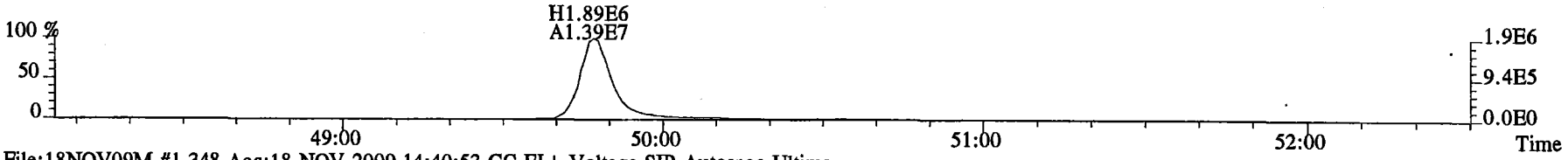
File:18NOV09M #1-348 Acq:18-NOV-2009 14:40:53 GC EI+ Voltage SIR Autospec-Ultima
459.7348 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory



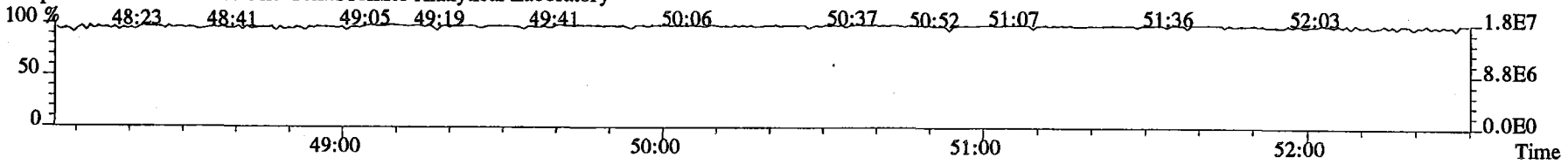
File:18NOV09M #1-348 Acq:18-NOV-2009 14:40:53 GC EI+ Voltage SIR Autospec-Ultima
469.7780 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory



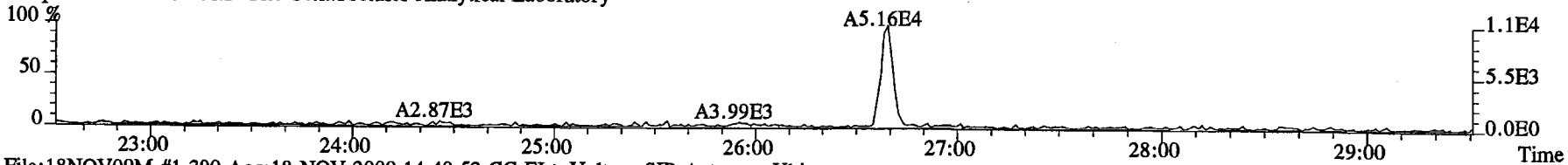
File:18NOV09M #1-348 Acq:18-NOV-2009 14:40:53 GC EI+ Voltage SIR Autospec-Ultima
471.7750 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory



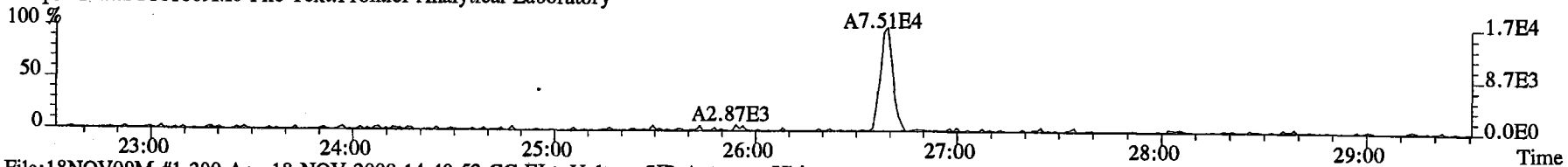
File:18NOV09M #1-348 Acq:18-NOV-2009 14:40:53 GC EI+ Voltage SIR Autospec-Ultima
454.9728 S:2 F:5 Exp:PCDD
Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory



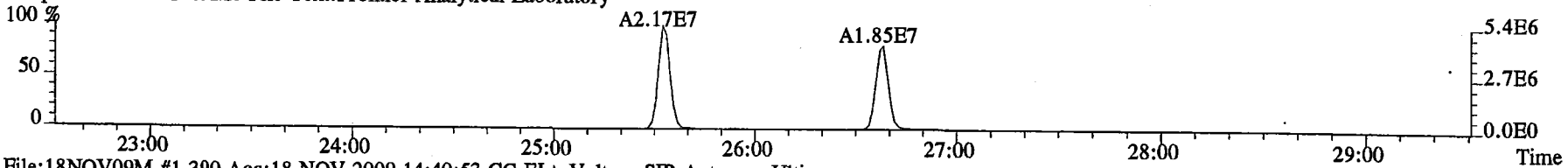
File:18NOV09M #1-390 Acq:18-NOV-2009 14:40:53 GC EI+ Voltage SIR Autospec-Ultima
303.9016 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory



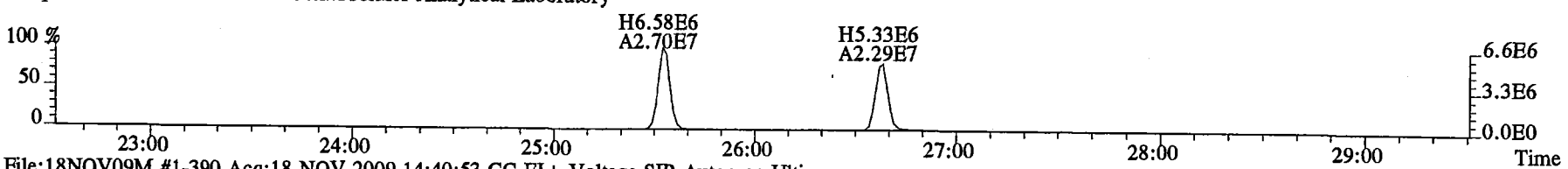
File:18NOV09M #1-390 Acq:18-NOV-2009 14:40:53 GC EI+ Voltage SIR Autospec-Ultima
305.8987 S:2 BSUB(10000,15,0.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory



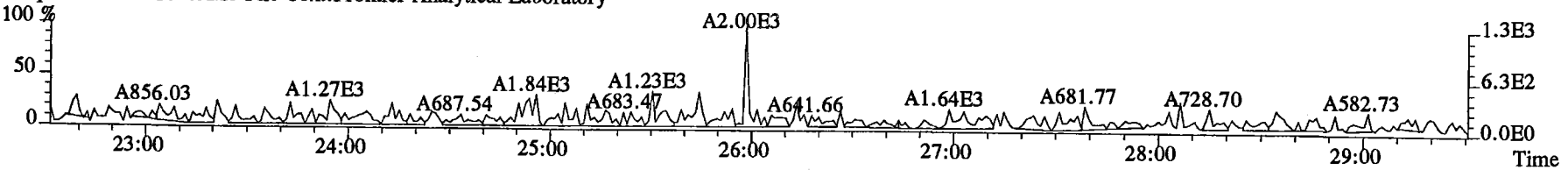
File:18NOV09M #1-390 Acq:18-NOV-2009 14:40:53 GC EI+ Voltage SIR Autospec-Ultima
315.9419 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory



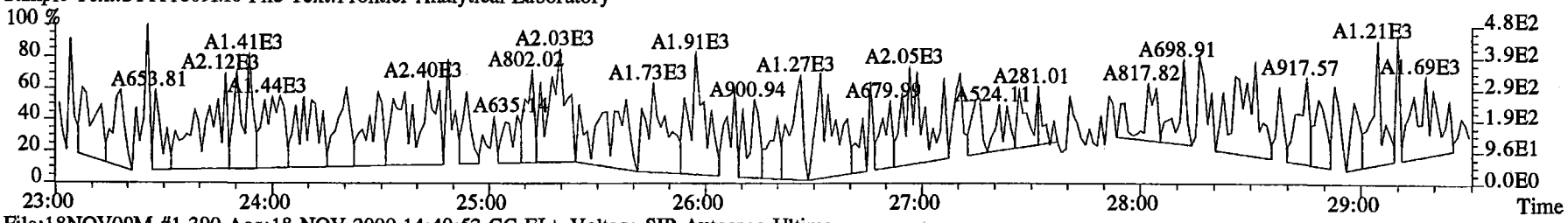
File:18NOV09M #1-390 Acq:18-NOV-2009 14:40:53 GC EI+ Voltage SIR Autospec-Ultima
317.9389 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory



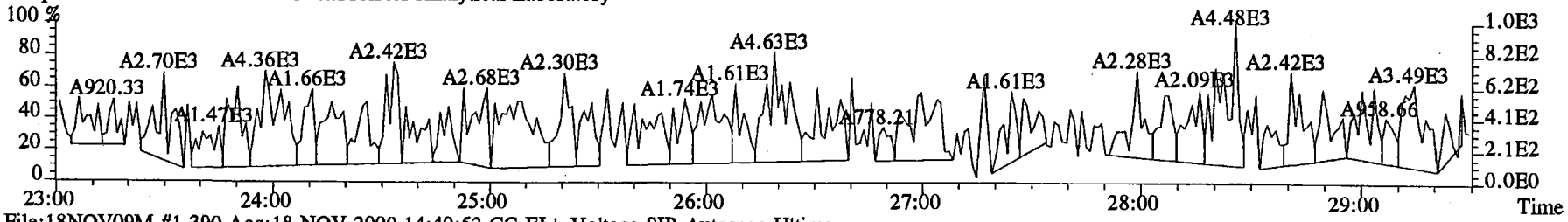
File:18NOV09M #1-390 Acq:18-NOV-2009 14:40:53 GC EI+ Voltage SIR Autospec-Ultima
375.8364 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory



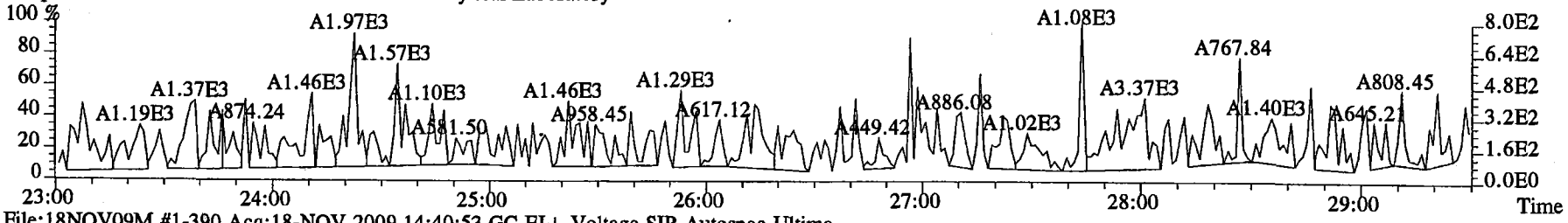
File:18NOV09M #1-390 Acq:18-NOV-2009 14:40:53 GC EI+ Voltage SIR Autospec-Ultima
339.8597 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory



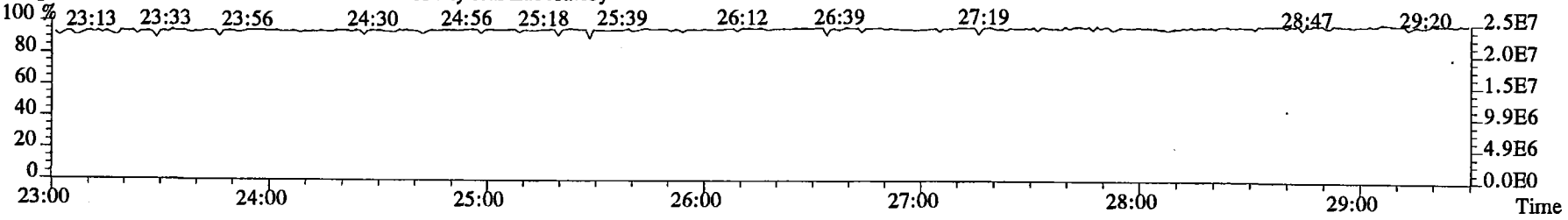
File:18NOV09M #1-390 Acq:18-NOV-2009 14:40:53 GC EI+ Voltage SIR Autospec-Ultima
341.8568 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory



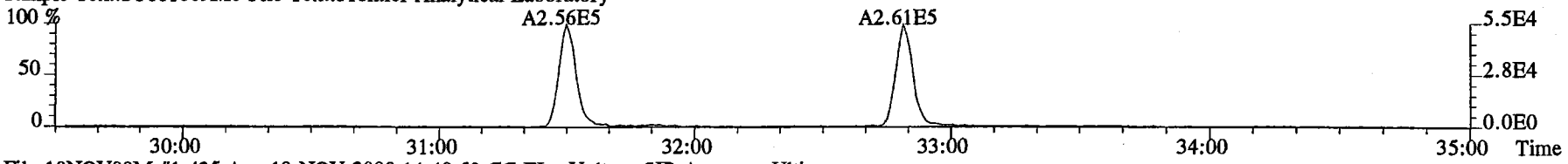
File:18NOV09M #1-390 Acq:18-NOV-2009 14:40:53 GC EI+ Voltage SIR Autospec-Ultima
409.7974 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory



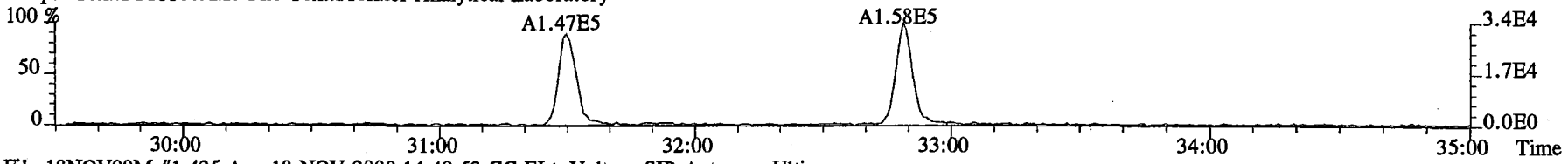
File:18NOV09M #1-390 Acq:18-NOV-2009 14:40:53 GC EI+ Voltage SIR Autospec-Ultima
330.9792 S:2 Exp:PCDD
Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory



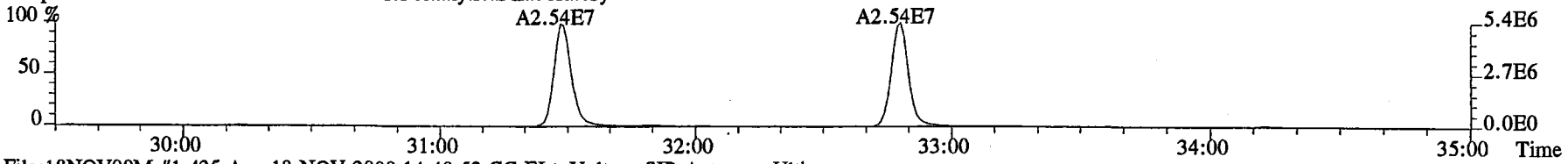
File:18NOV09M #1-425 Acq:18-NOV-2009 14:40:53 GC EI+ Voltage SIR Autospec-Ultima
339.8597 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory



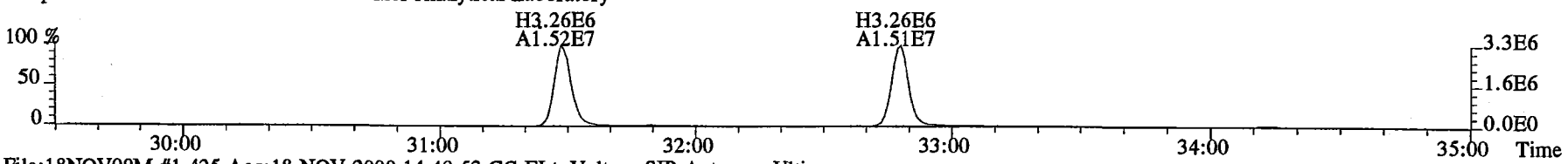
File:18NOV09M #1-425 Acq:18-NOV-2009 14:40:53 GC EI+ Voltage SIR Autospec-Ultima
341.8568 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory



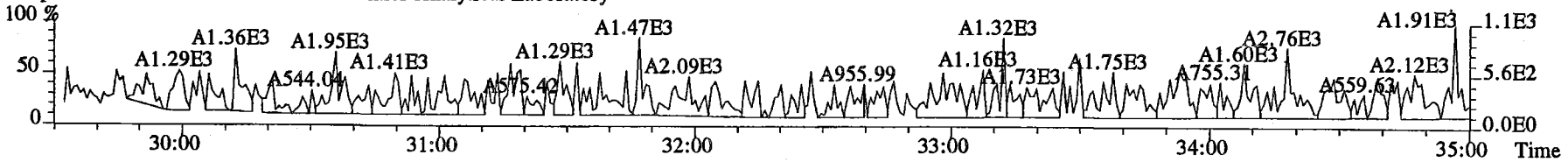
File:18NOV09M #1-425 Acq:18-NOV-2009 14:40:53 GC EI+ Voltage SIR Autospec-Ultima
351.9000 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory



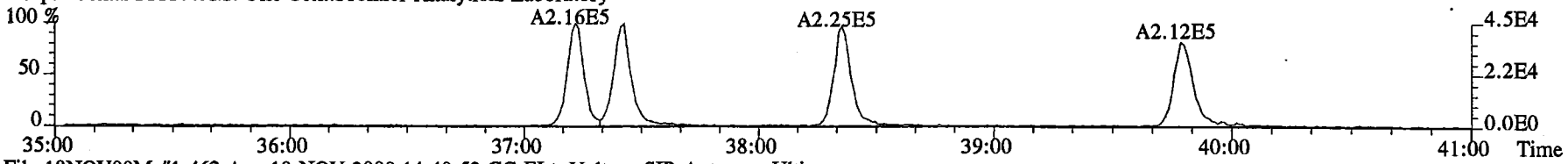
File:18NOV09M #1-425 Acq:18-NOV-2009 14:40:53 GC EI+ Voltage SIR Autospec-Ultima
353.8970 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory



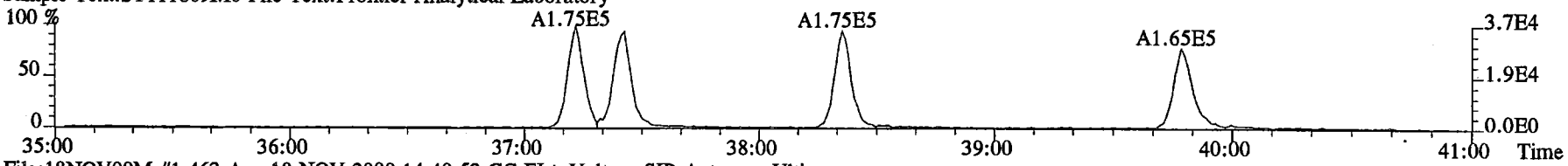
File:18NOV09M #1-425 Acq:18-NOV-2009 14:40:53 GC EI+ Voltage SIR Autospec-Ultima
409.7974 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory



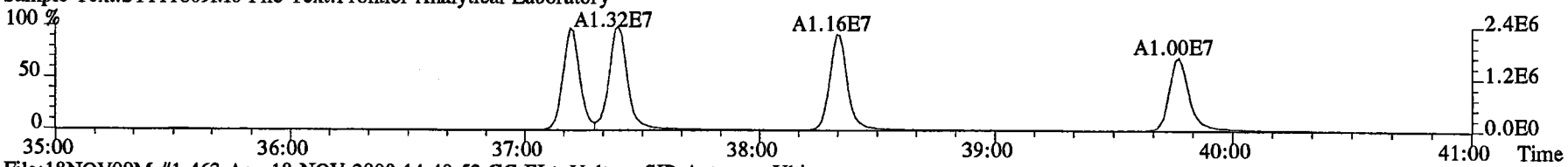
File:18NOV09M #1-463 Acq:18-NOV-2009 14:40:53 GC EI+ Voltage SIR Autospec-Ultima
373.8207 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory



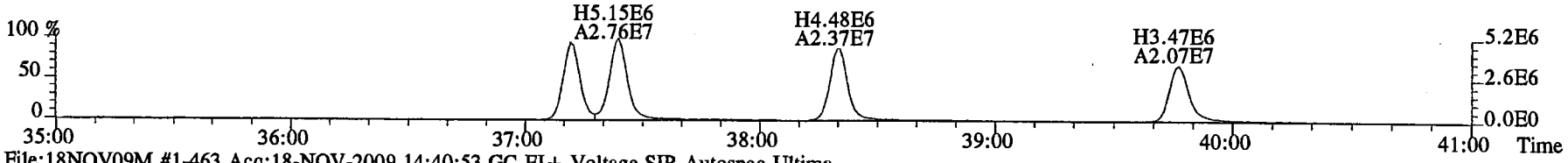
File:18NOV09M #1-463 Acq:18-NOV-2009 14:40:53 GC EI+ Voltage SIR Autospec-Ultima
375.8178 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory



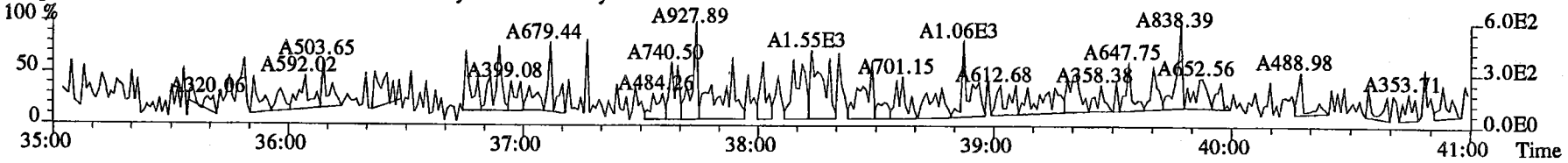
File:18NOV09M #1-463 Acq:18-NOV-2009 14:40:53 GC EI+ Voltage SIR Autospec-Ultima
383.8639 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory



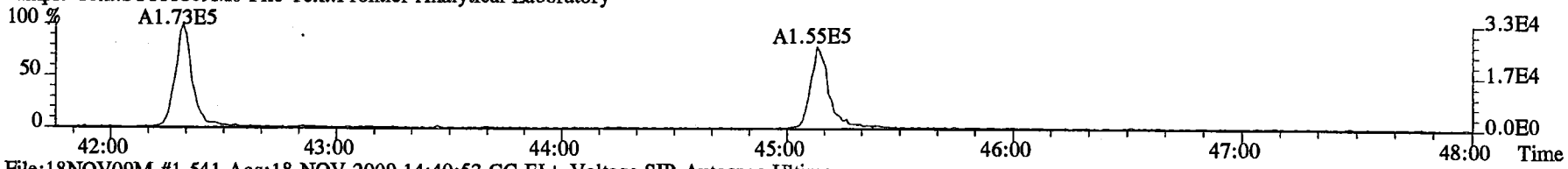
File:18NOV09M #1-463 Acq:18-NOV-2009 14:40:53 GC EI+ Voltage SIR Autospec-Ultima
385.8610 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory



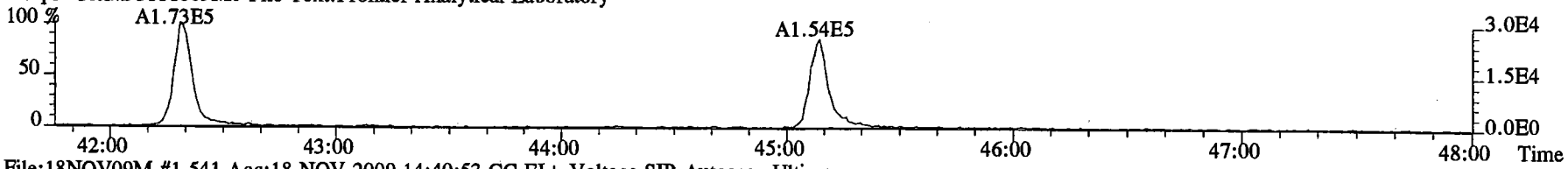
File:18NOV09M #1-463 Acq:18-NOV-2009 14:40:53 GC EI+ Voltage SIR Autospec-Ultima
445.7555 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory



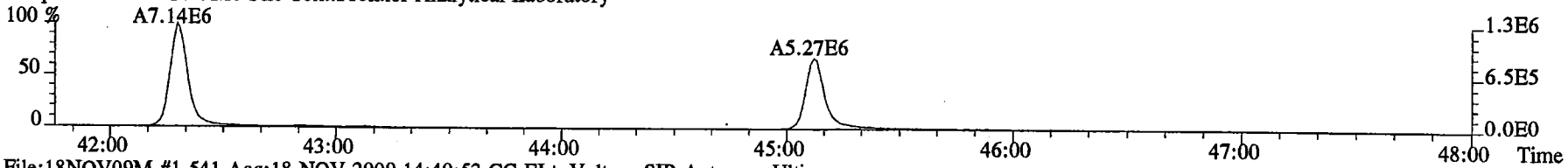
File:18NOV09M #1-541 Acq:18-NOV-2009 14:40:53 GC EI+ Voltage SIR Autospec-Ultima
407.7818 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory



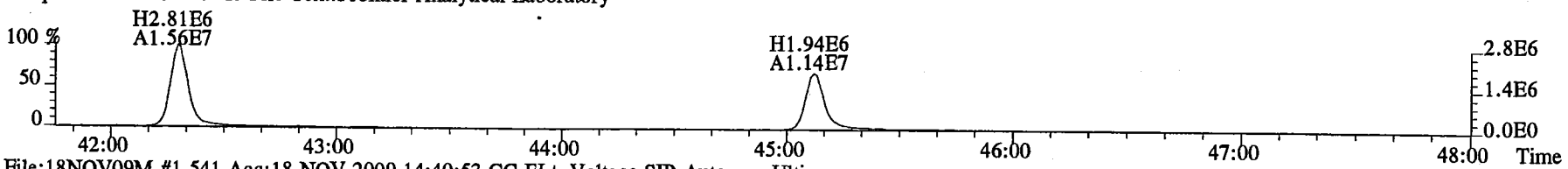
File:18NOV09M #1-541 Acq:18-NOV-2009 14:40:53 GC EI+ Voltage SIR Autospec-Ultima
409.7788 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory



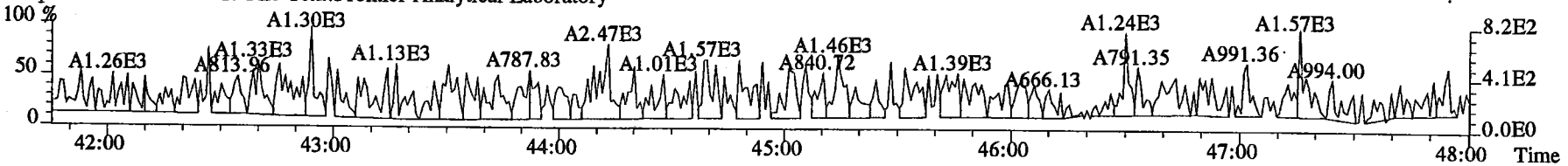
File:18NOV09M #1-541 Acq:18-NOV-2009 14:40:53 GC EI+ Voltage SIR Autospec-Ultima
417.8253 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory



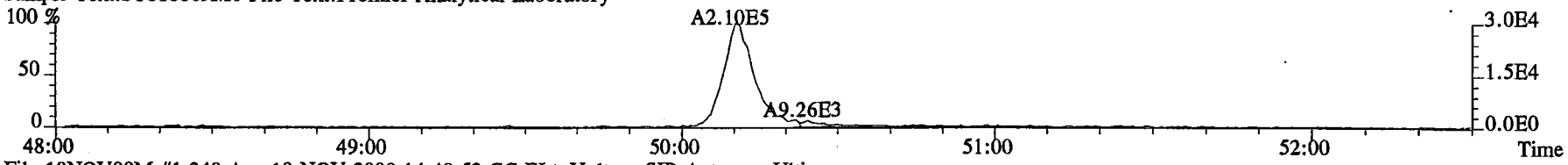
File:18NOV09M #1-541 Acq:18-NOV-2009 14:40:53 GC EI+ Voltage SIR Autospec-Ultima
419.8220 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory



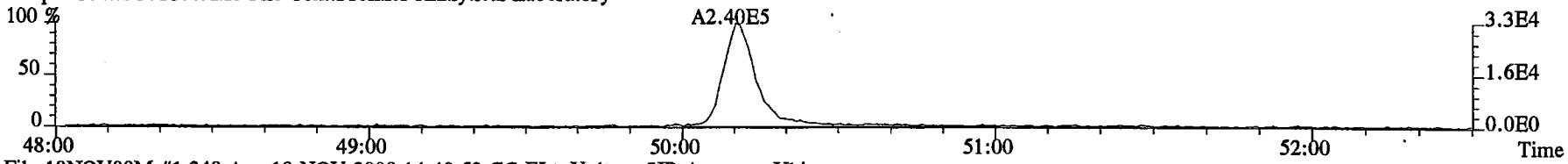
File:18NOV09M #1-541 Acq:18-NOV-2009 14:40:53 GC EI+ Voltage SIR Autospec-Ultima
479.7165 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory



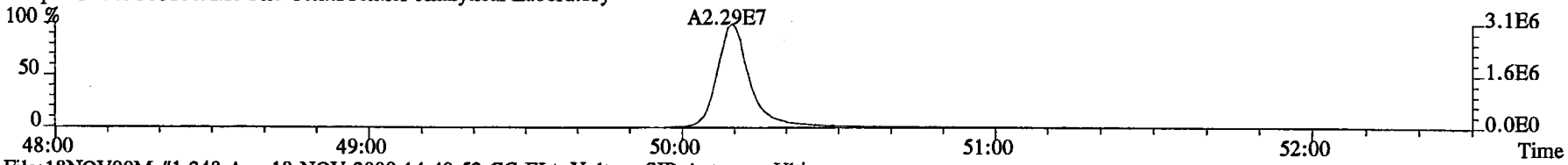
File:18NOV09M #1-348 Acq:18-NOV-2009 14:40:53 GC EI+ Voltage SIR Autospec-Ultima
441.7428 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory



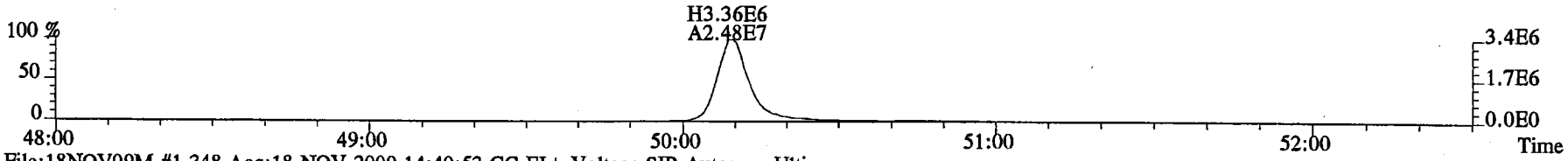
File:18NOV09M #1-348 Acq:18-NOV-2009 14:40:53 GC EI+ Voltage SIR Autospec-Ultima
443.7398 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory



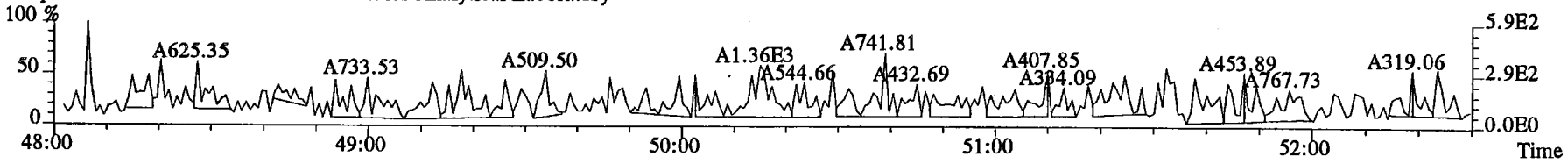
File:18NOV09M #1-348 Acq:18-NOV-2009 14:40:53 GC EI+ Voltage SIR Autospec-Ultima
453.7831 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory



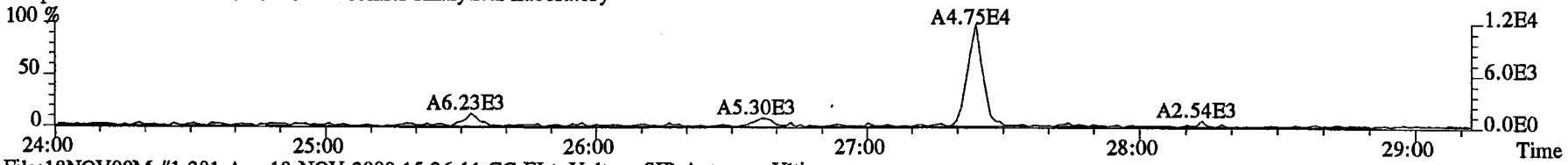
File:18NOV09M #1-348 Acq:18-NOV-2009 14:40:53 GC EI+ Voltage SIR Autospec-Ultima
455.7801 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory



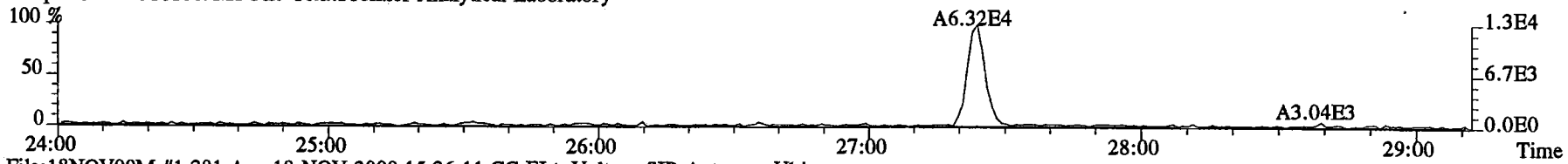
File:18NOV09M #1-348 Acq:18-NOV-2009 14:40:53 GC EI+ Voltage SIR Autospec-Ultima
513.6775 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory



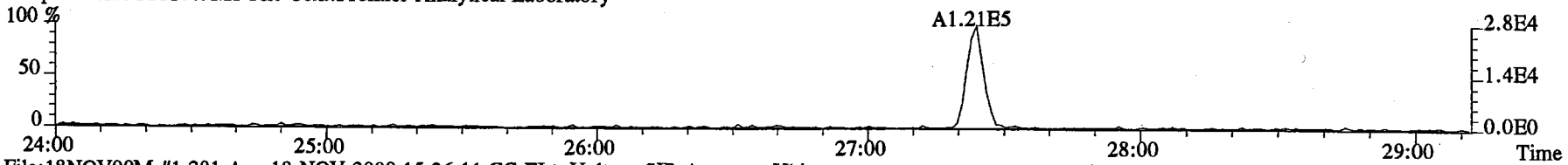
File:18NOV09M #1-391 Acq:18-NOV-2009 15:36:11 GC EI+ Voltage SIR Autospec-Ultima
319.8965 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M1 File Text:Frontier Analytical Laboratory



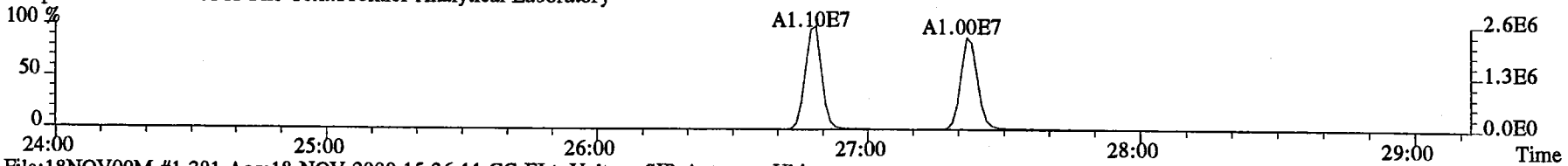
File:18NOV09M #1-391 Acq:18-NOV-2009 15:36:11 GC EI+ Voltage SIR Autospec-Ultima
321.8936 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M1 File Text:Frontier Analytical Laboratory



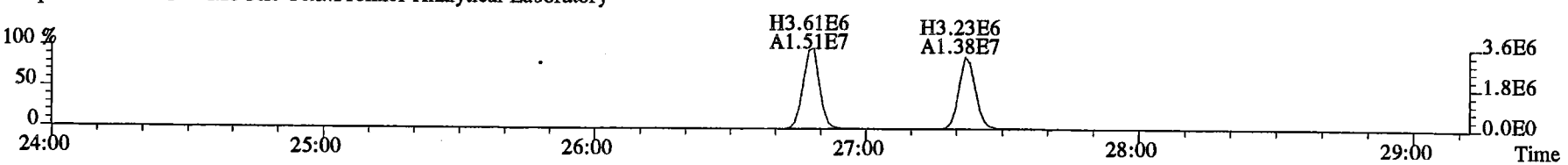
File:18NOV09M #1-391 Acq:18-NOV-2009 15:36:11 GC EI+ Voltage SIR Autospec-Ultima
327.8847 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M1 File Text:Frontier Analytical Laboratory



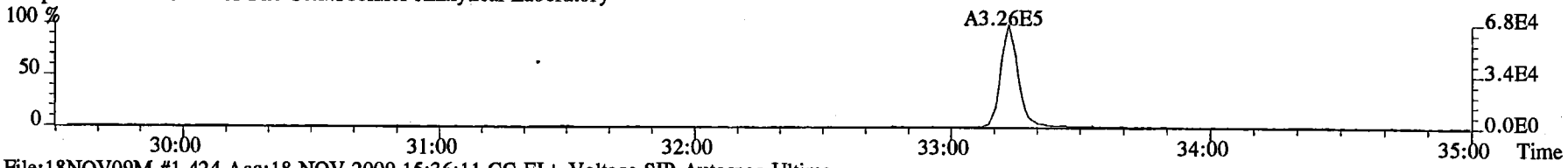
File:18NOV09M #1-391 Acq:18-NOV-2009 15:36:11 GC EI+ Voltage SIR Autospec-Ultima
331.9368 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M1 File Text:Frontier Analytical Laboratory



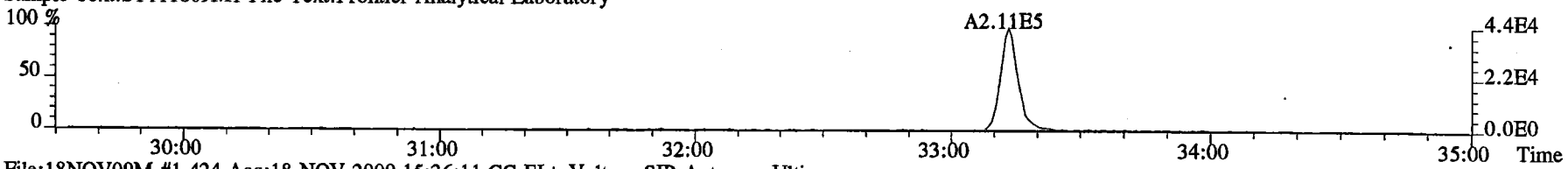
File:18NOV09M #1-391 Acq:18-NOV-2009 15:36:11 GC EI+ Voltage SIR Autospec-Ultima
333.9339 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M1 File Text:Frontier Analytical Laboratory



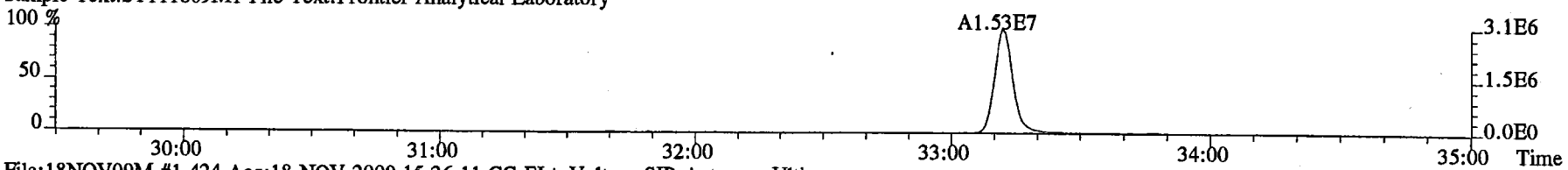
File:18NOV09M #1-424 Acq:18-NOV-2009 15:36:11 GC EI+ Voltage SIR Autospec-Ultima
355.8546 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M1 File Text:Frontier Analytical Laboratory



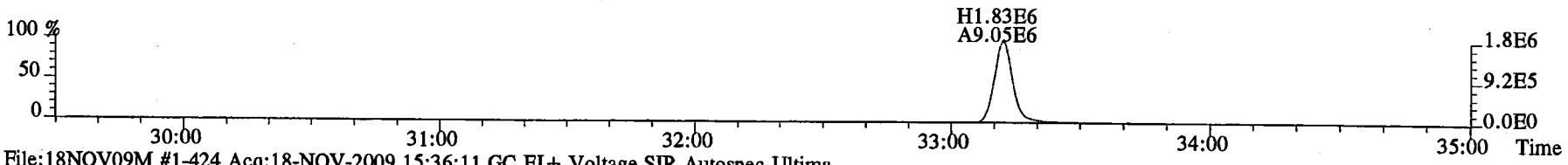
File:18NOV09M #1-424 Acq:18-NOV-2009 15:36:11 GC EI+ Voltage SIR Autospec-Ultima
357.8517 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M1 File Text:Frontier Analytical Laboratory



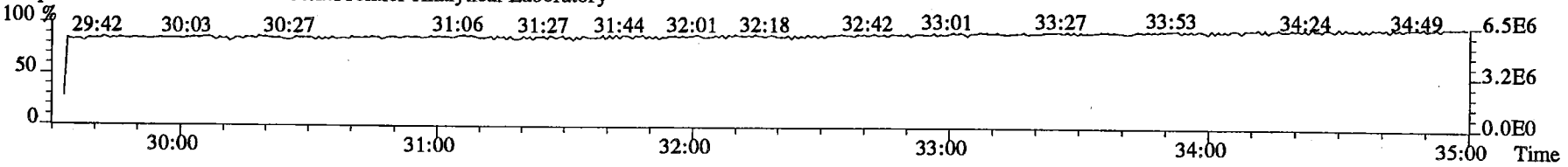
File:18NOV09M #1-424 Acq:18-NOV-2009 15:36:11 GC EI+ Voltage SIR Autospec-Ultima
367.8949 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M1 File Text:Frontier Analytical Laboratory



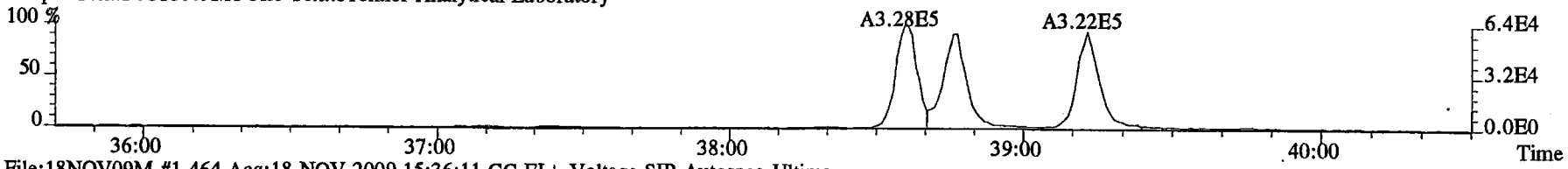
File:18NOV09M #1-424 Acq:18-NOV-2009 15:36:11 GC EI+ Voltage SIR Autospec-Ultima
369.8919 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M1 File Text:Frontier Analytical Laboratory



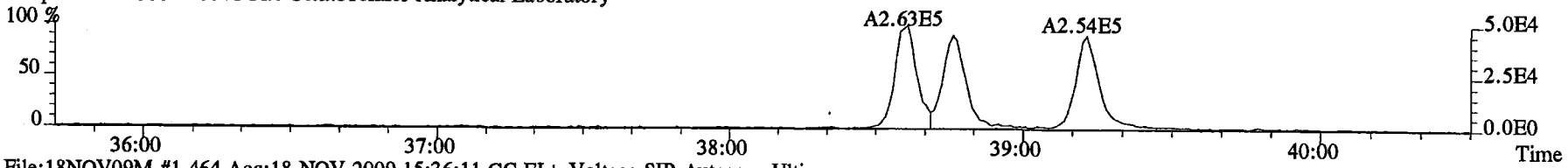
File:18NOV09M #1-424 Acq:18-NOV-2009 15:36:11 GC EI+ Voltage SIR Autospec-Ultima
366.9792 S:3 F:2 Exp:PCDD
Sample Text:ST111809M1 File Text:Frontier Analytical Laboratory



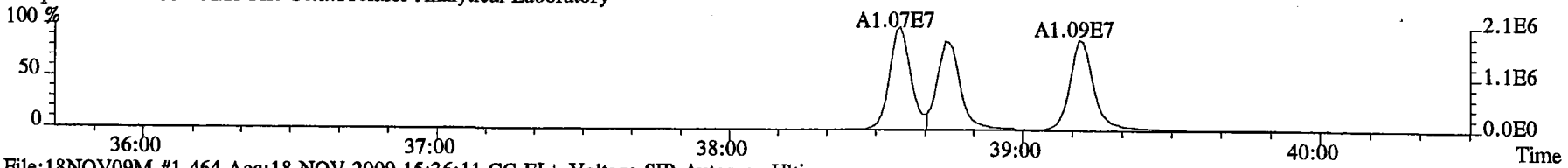
File:18NOV09M #1-464 Acq:18-NOV-2009 15:36:11 GC EI+ Voltage SIR Autospec-Ultima
389.8156 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M1 File Text:Frontier Analytical Laboratory



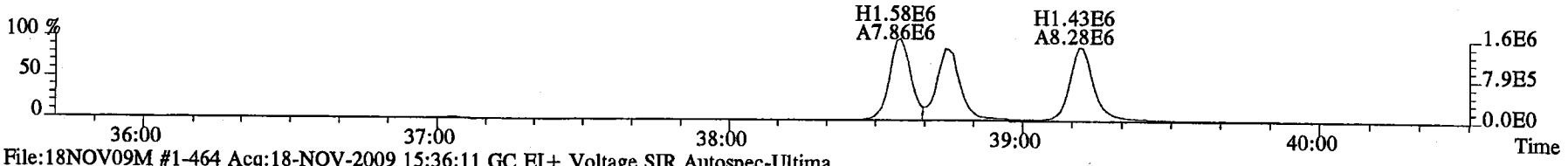
File:18NOV09M #1-464 Acq:18-NOV-2009 15:36:11 GC EI+ Voltage SIR Autospec-Ultima
391.8127 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M1 File Text:Frontier Analytical Laboratory



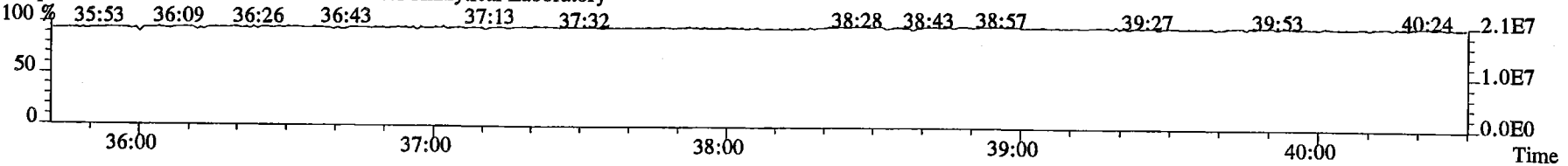
File:18NOV09M #1-464 Acq:18-NOV-2009 15:36:11 GC EI+ Voltage SIR Autospec-Ultima
401.8559 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M1 File Text:Frontier Analytical Laboratory



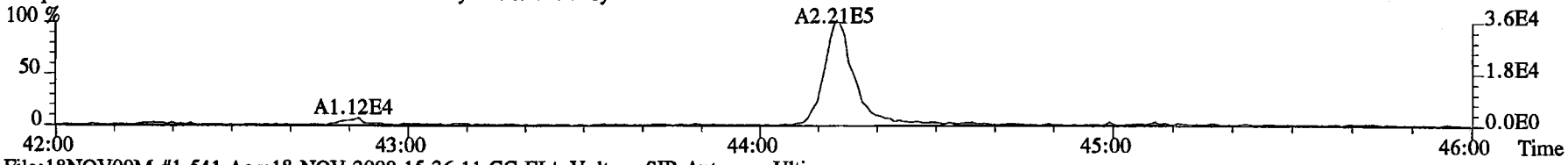
File:18NOV09M #1-464 Acq:18-NOV-2009 15:36:11 GC EI+ Voltage SIR Autospec-Ultima
403.8530 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M1 File Text:Frontier Analytical Laboratory



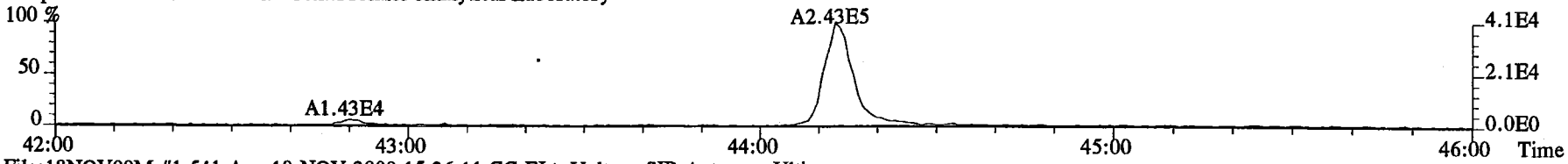
File:18NOV09M #1-464 Acq:18-NOV-2009 15:36:11 GC EI+ Voltage SIR Autospec-Ultima
380.9760 S:3 F:3 Exp:PCDD
Sample Text:ST111809M1 File Text:Frontier Analytical Laboratory



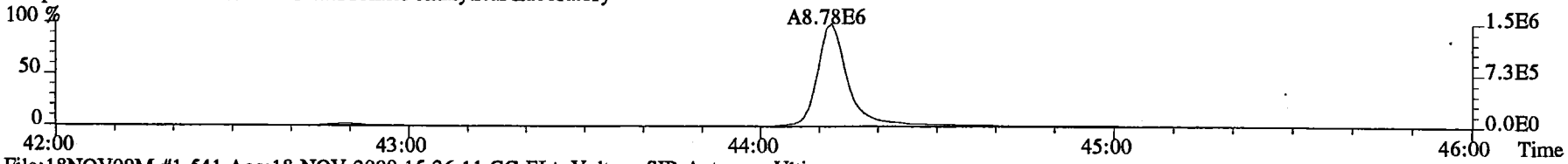
File:18NOV09M #1-541 Acq:18-NOV-2009 15:36:11 GC EI+ Voltage SIR Autospec-Ultima
423.7767 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M1 File Text:Frontier Analytical Laboratory



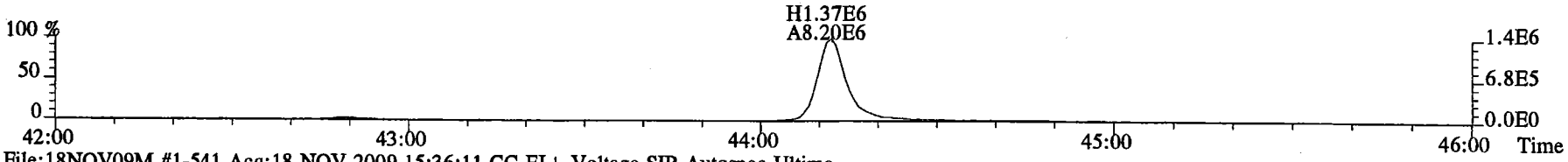
File:18NOV09M #1-541 Acq:18-NOV-2009 15:36:11 GC EI+ Voltage SIR Autospec-Ultima
425.7737 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M1 File Text:Frontier Analytical Laboratory



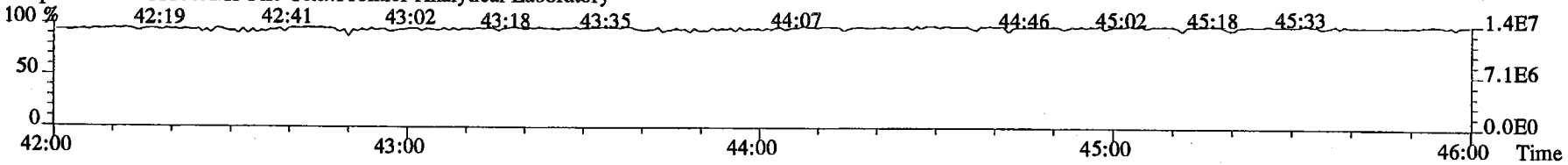
File:18NOV09M #1-541 Acq:18-NOV-2009 15:36:11 GC EI+ Voltage SIR Autospec-Ultima
435.8169 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M1 File Text:Frontier Analytical Laboratory



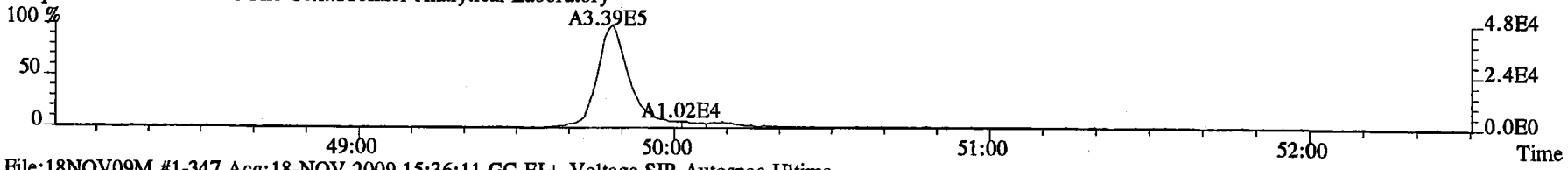
File:18NOV09M #1-541 Acq:18-NOV-2009 15:36:11 GC EI+ Voltage SIR Autospec-Ultima
437.8140 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M1 File Text:Frontier Analytical Laboratory



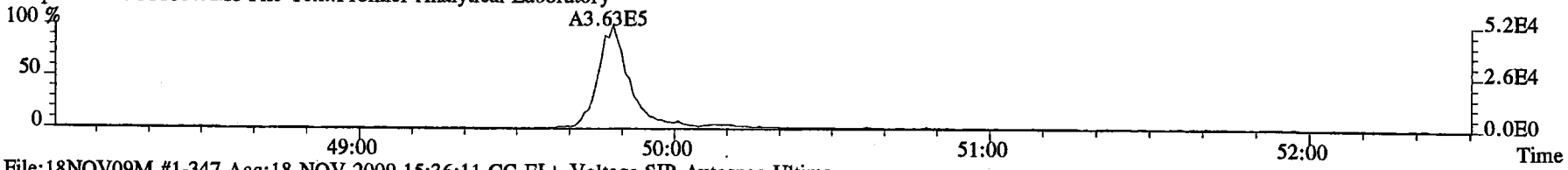
File:18NOV09M #1-541 Acq:18-NOV-2009 15:36:11 GC EI+ Voltage SIR Autospec-Ultima
430.9728 S:3 F:4 Exp:PCDD
Sample Text:ST111809M1 File Text:Frontier Analytical Laboratory



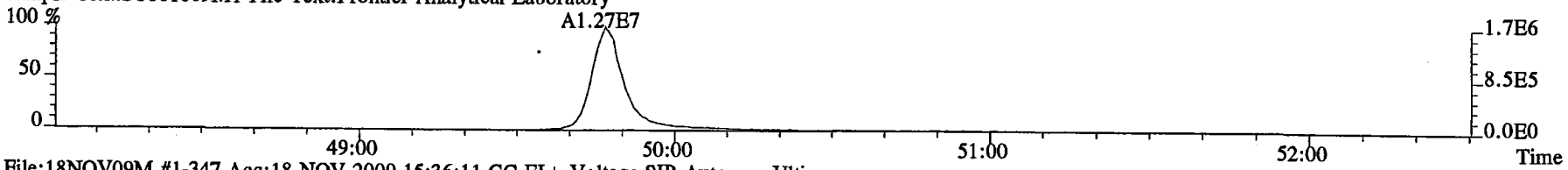
File:18NOV09M #1-347 Acq:18-NOV-2009 15:36:11 GC EI+ Voltage SIR Autospec-Ultima
457.7377 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M1 File Text:Frontier Analytical Laboratory



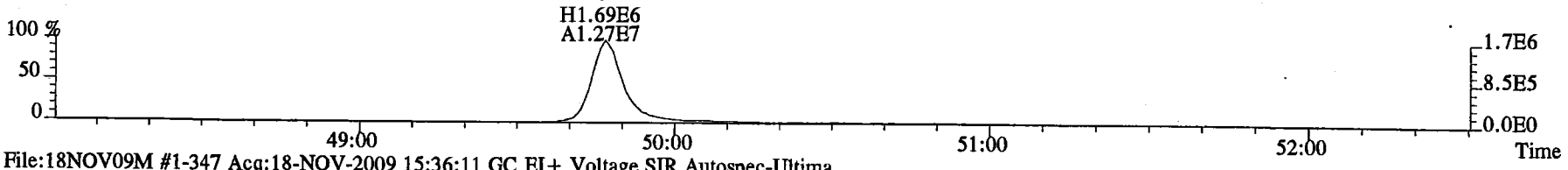
File:18NOV09M #1-347 Acq:18-NOV-2009 15:36:11 GC EI+ Voltage SIR Autospec-Ultima
459.7348 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M1 File Text:Frontier Analytical Laboratory



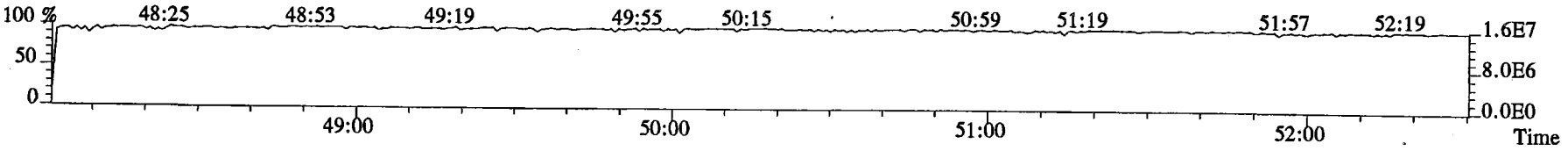
File:18NOV09M #1-347 Acq:18-NOV-2009 15:36:11 GC EI+ Voltage SIR Autospec-Ultima
469.7780 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M1 File Text:Frontier Analytical Laboratory



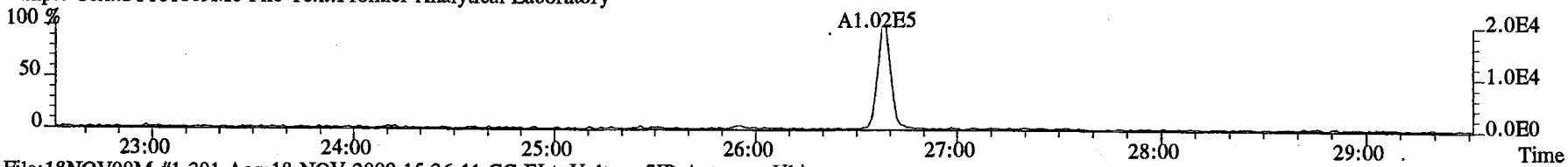
File:18NOV09M #1-347 Acq:18-NOV-2009 15:36:11 GC EI+ Voltage SIR Autospec-Ultima
471.7750 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M1 File Text:Frontier Analytical Laboratory



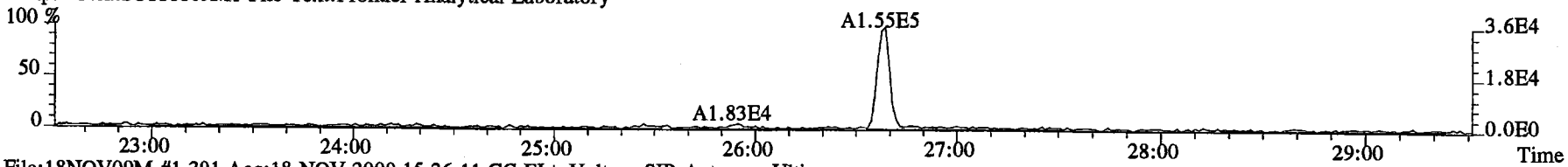
File:18NOV09M #1-347 Acq:18-NOV-2009 15:36:11 GC EI+ Voltage SIR Autospec-Ultima
454.9728 S:3 F:5 Exp:PCDD
Sample Text:ST111809M1 File Text:Frontier Analytical Laboratory



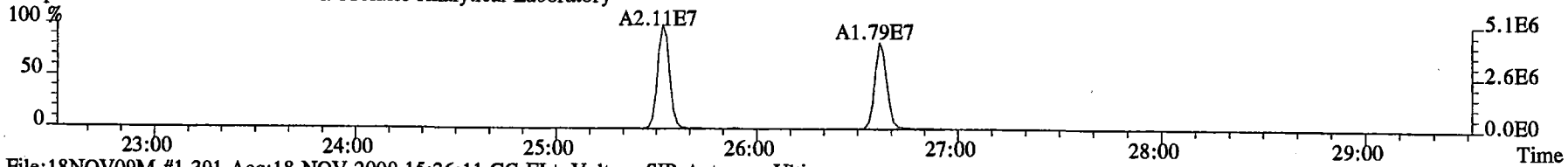
File:18NOV09M #1-391 Acq:18-NOV-2009 15:36:11 GC EI+ Voltage SIR Autospec-Ultima
303.9016 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M1 File Text:Frontier Analytical Laboratory



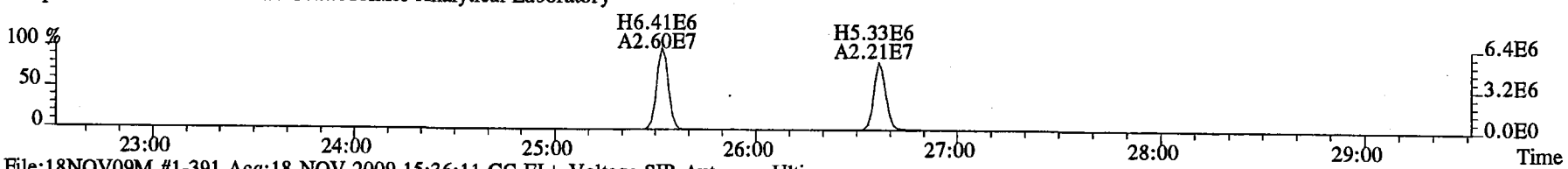
File:18NOV09M #1-391 Acq:18-NOV-2009 15:36:11 GC EI+ Voltage SIR Autospec-Ultima
305.8987 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M1 File Text:Frontier Analytical Laboratory



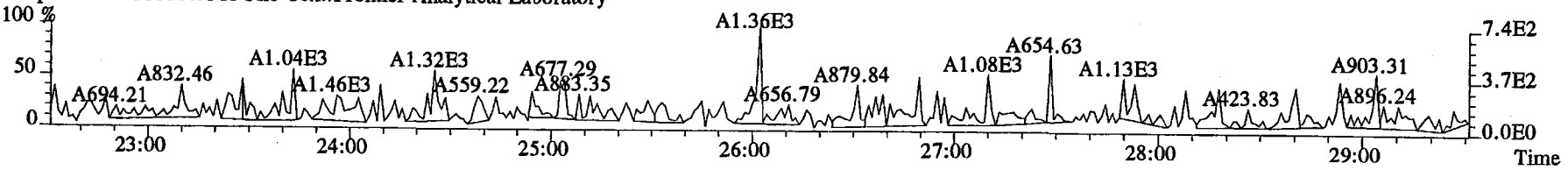
File:18NOV09M #1-391 Acq:18-NOV-2009 15:36:11 GC EI+ Voltage SIR Autospec-Ultima
315.9419 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M1 File Text:Frontier Analytical Laboratory



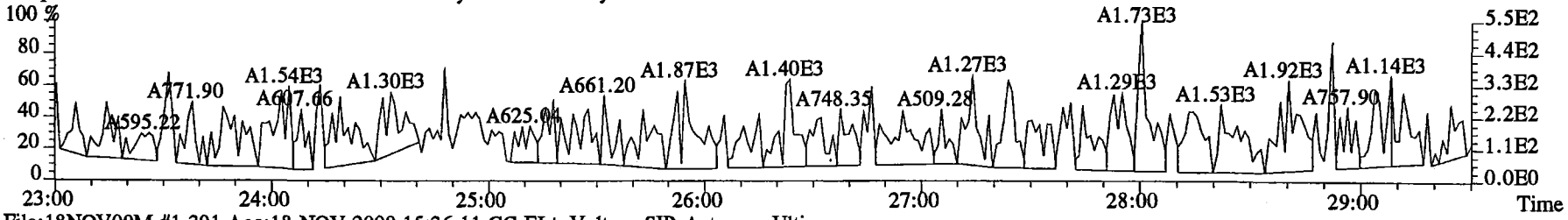
File:18NOV09M #1-391 Acq:18-NOV-2009 15:36:11 GC EI+ Voltage SIR Autospec-Ultima
317.9389 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M1 File Text:Frontier Analytical Laboratory



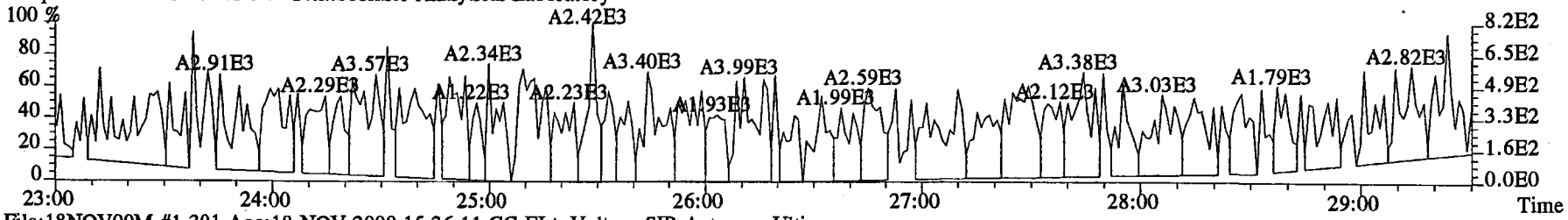
File:18NOV09M #1-391 Acq:18-NOV-2009 15:36:11 GC EI+ Voltage SIR Autospec-Ultima
375.8364 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M1 File Text:Frontier Analytical Laboratory



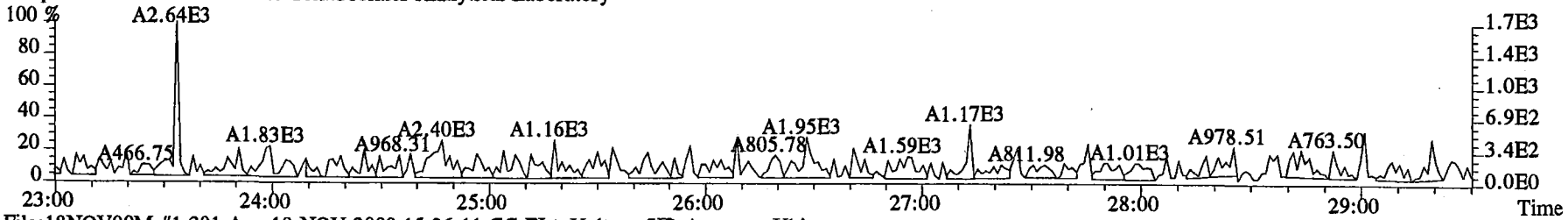
File:18NOV09M #1-391 Acq:18-NOV-2009 15:36:11 GC EI+ Voltage SIR Autospec-Ultima
339.8597 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M1 File Text:Frontier Analytical Laboratory



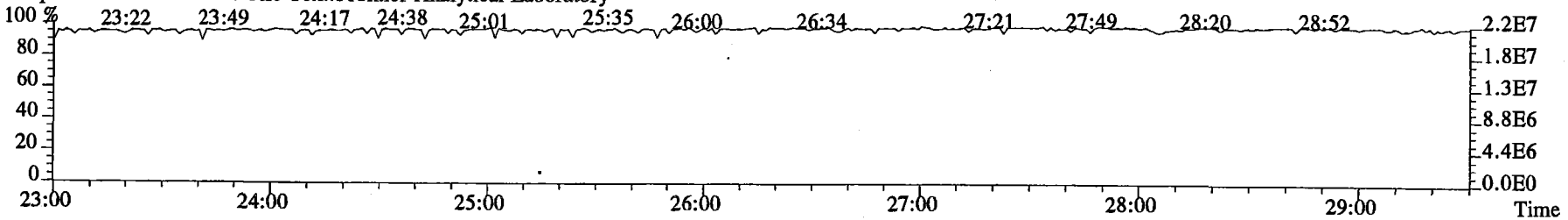
File:18NOV09M #1-391 Acq:18-NOV-2009 15:36:11 GC EI+ Voltage SIR Autospec-Ultima
341.8568 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M1 File Text:Frontier Analytical Laboratory



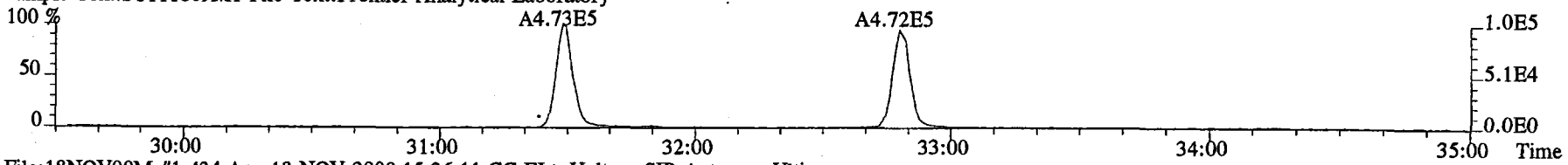
File:18NOV09M #1-391 Acq:18-NOV-2009 15:36:11 GC EI+ Voltage SIR Autospec-Ultima
409.7974 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M1 File Text:Frontier Analytical Laboratory



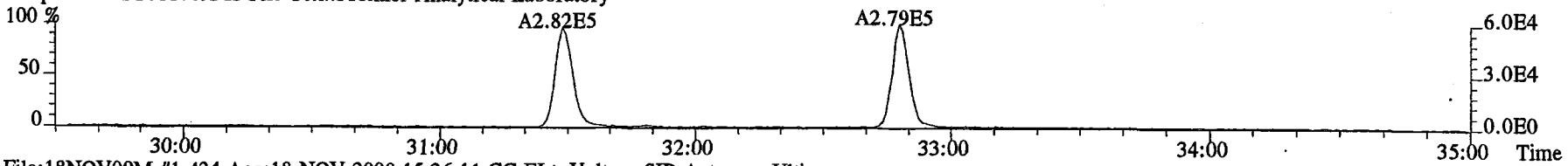
File:18NOV09M #1-391 Acq:18-NOV-2009 15:36:11 GC EI+ Voltage SIR Autospec-Ultima
330.9792 S:3 Exp:PCDD
Sample Text:ST111809M1 File Text:Frontier Analytical Laboratory



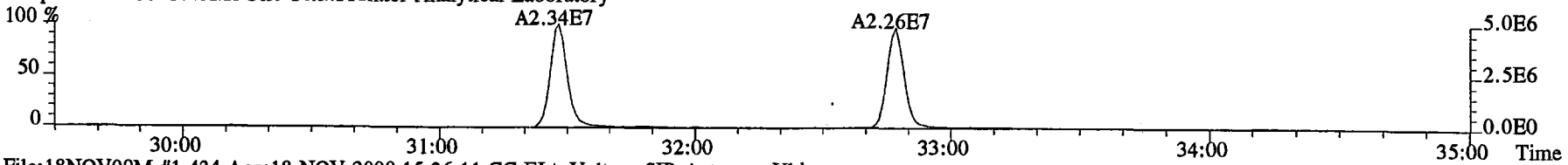
File:18NOV09M #1-424 Acq:18-NOV-2009 15:36:11 GC EI+ Voltage SIR Autospec-Ultima
339.8597 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M1 File Text:Frontier Analytical Laboratory



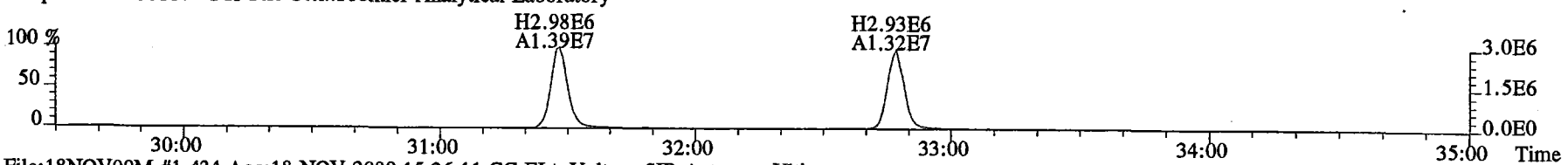
File:18NOV09M #1-424 Acq:18-NOV-2009 15:36:11 GC EI+ Voltage SIR Autospec-Ultima
341.8568 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M1 File Text:Frontier Analytical Laboratory



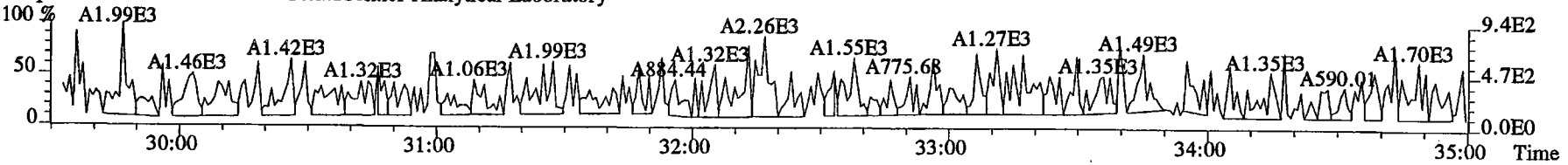
File:18NOV09M #1-424 Acq:18-NOV-2009 15:36:11 GC EI+ Voltage SIR Autospec-Ultima
351.9000 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M1 File Text:Frontier Analytical Laboratory



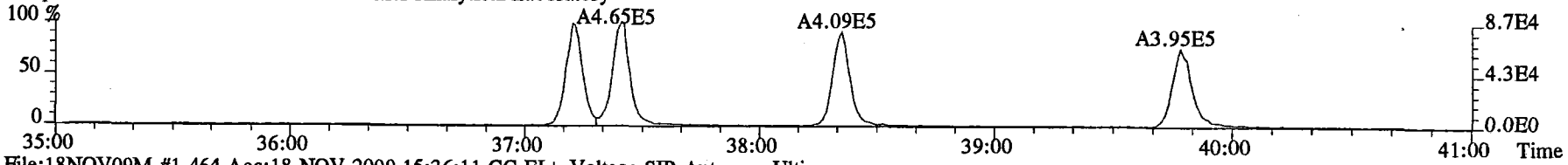
File:18NOV09M #1-424 Acq:18-NOV-2009 15:36:11 GC EI+ Voltage SIR Autospec-Ultima
353.8970 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M1 File Text:Frontier Analytical Laboratory



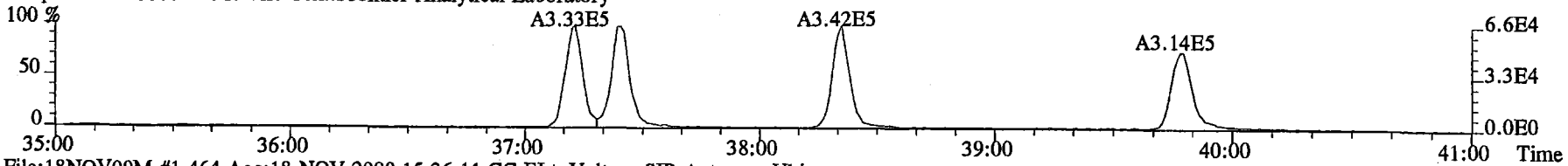
File:18NOV09M #1-424 Acq:18-NOV-2009 15:36:11 GC EI+ Voltage SIR Autospec-Ultima
409.7974 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M1 File Text:Frontier Analytical Laboratory



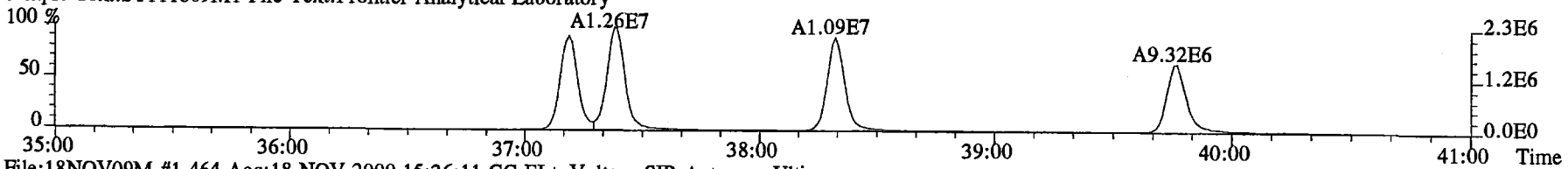
File:18NOV09M #1-464 Acq:18-NOV-2009 15:36:11 GC EI+ Voltage SIR Autospec-Ultima
373.8207 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M1 File Text:Frontier Analytical Laboratory



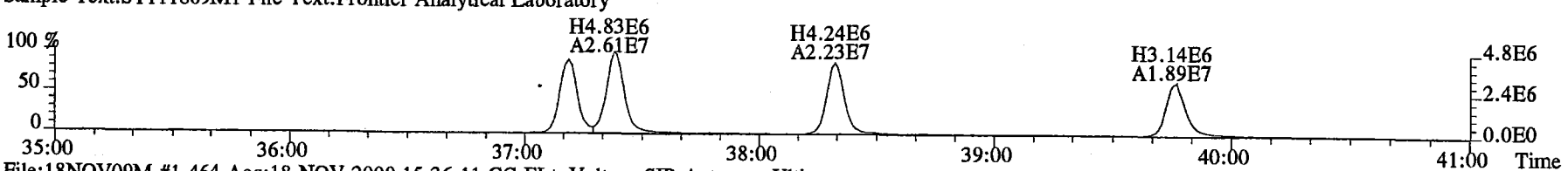
File:18NOV09M #1-464 Acq:18-NOV-2009 15:36:11 GC EI+ Voltage SIR Autospec-Ultima
375.8178 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M1 File Text:Frontier Analytical Laboratory



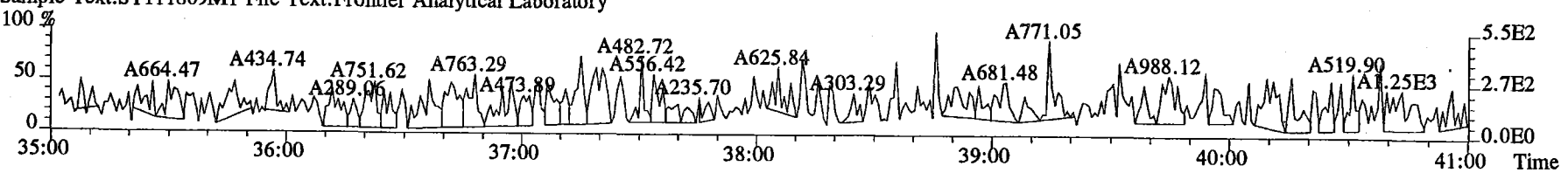
File:18NOV09M #1-464 Acq:18-NOV-2009 15:36:11 GC EI+ Voltage SIR Autospec-Ultima
383.8639 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M1 File Text:Frontier Analytical Laboratory



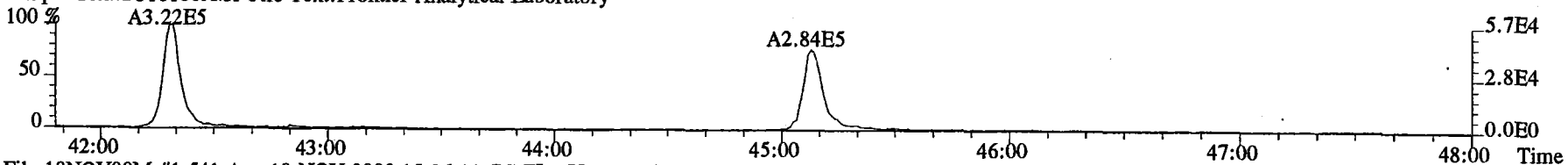
File:18NOV09M #1-464 Acq:18-NOV-2009 15:36:11 GC EI+ Voltage SIR Autospec-Ultima
385.8610 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M1 File Text:Frontier Analytical Laboratory



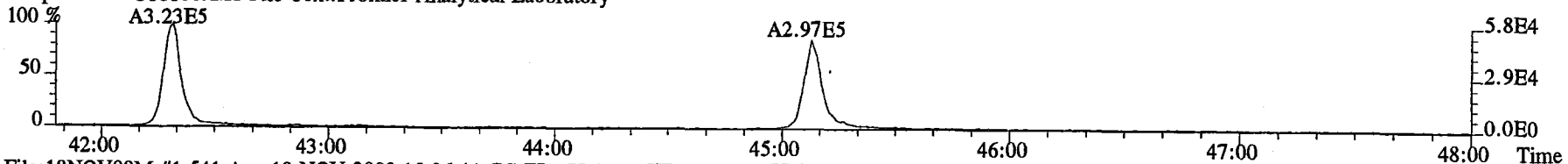
File:18NOV09M #1-464 Acq:18-NOV-2009 15:36:11 GC EI+ Voltage SIR Autospec-Ultima
445.7555 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M1 File Text:Frontier Analytical Laboratory



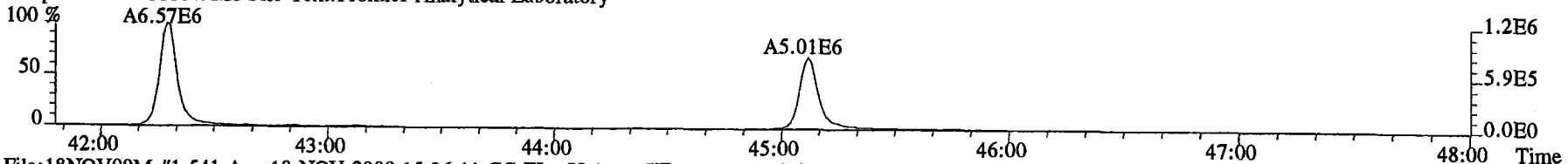
File:18NOV09M #1-541 Acq:18-NOV-2009 15:36:11 GC EI+ Voltage SIR Autospec-Ultima
407.7818 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M1 File Text:Frontier Analytical Laboratory



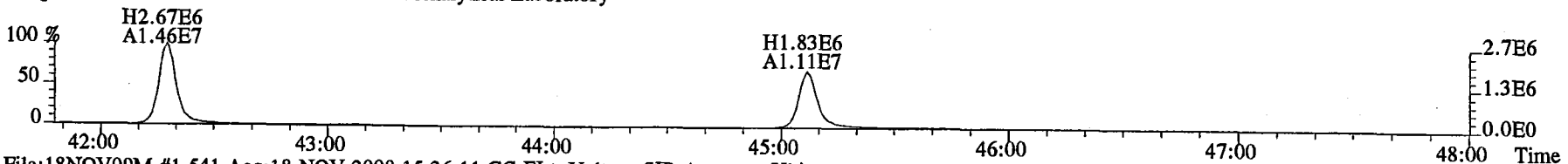
File:18NOV09M #1-541 Acq:18-NOV-2009 15:36:11 GC EI+ Voltage SIR Autospec-Ultima
409.7788 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M1 File Text:Frontier Analytical Laboratory



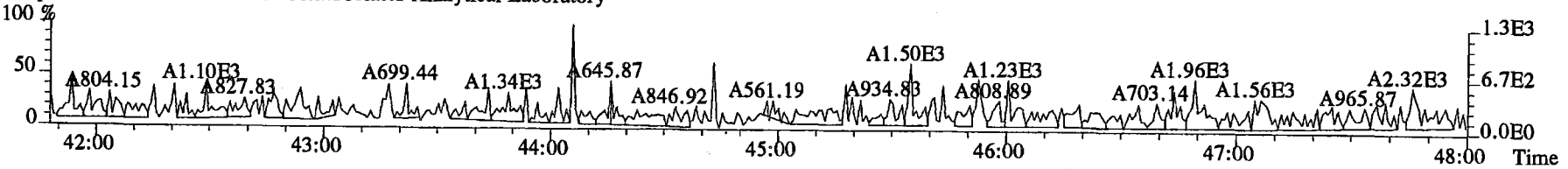
File:18NOV09M #1-541 Acq:18-NOV-2009 15:36:11 GC EI+ Voltage SIR Autospec-Ultima
417.8253 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M1 File Text:Frontier Analytical Laboratory



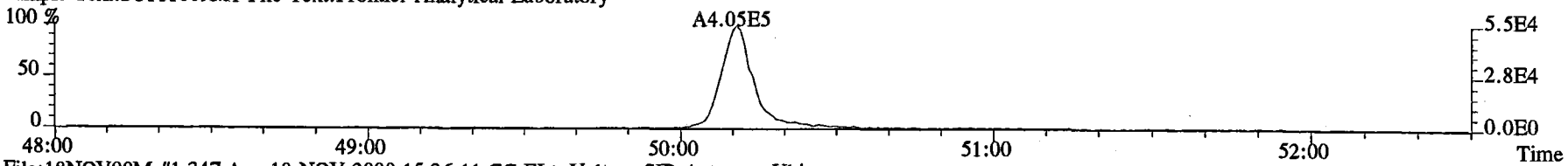
File:18NOV09M #1-541 Acq:18-NOV-2009 15:36:11 GC EI+ Voltage SIR Autospec-Ultima
419.8220 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M1 File Text:Frontier Analytical Laboratory



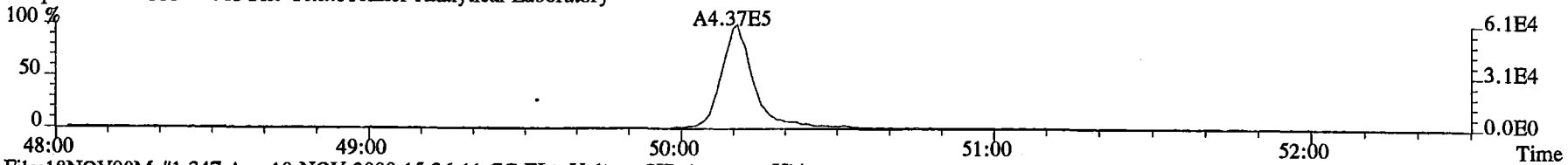
File:18NOV09M #1-541 Acq:18-NOV-2009 15:36:11 GC EI+ Voltage SIR Autospec-Ultima
479.7165 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M1 File Text:Frontier Analytical Laboratory



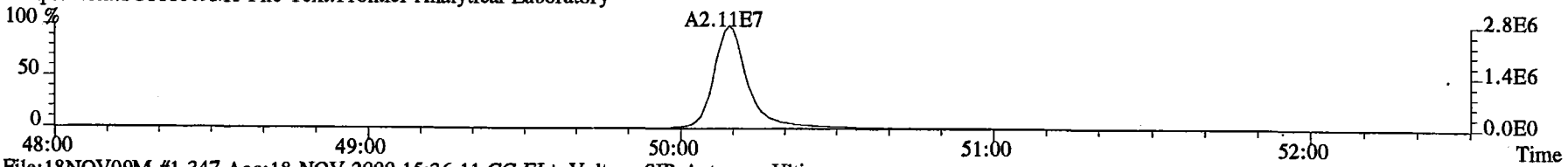
File:18NOV09M #1-347 Acq:18-NOV-2009 15:36:11 GC EI+ Voltage SIR Autospec-Ultima
441.7428 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M1 File Text:Frontier Analytical Laboratory



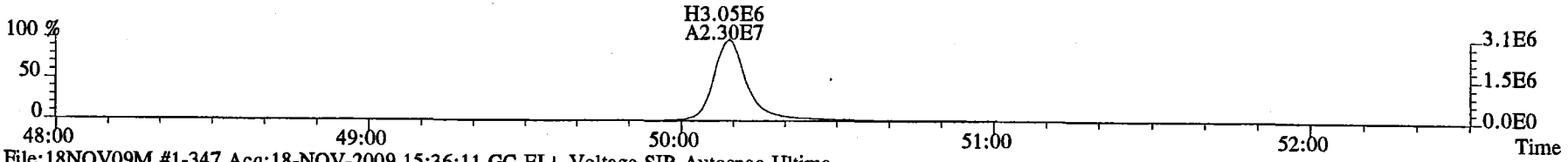
File:18NOV09M #1-347 Acq:18-NOV-2009 15:36:11 GC EI+ Voltage SIR Autospec-Ultima
443.7398 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M1 File Text:Frontier Analytical Laboratory



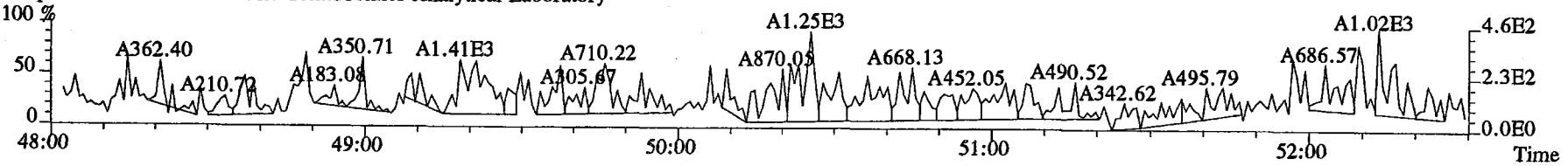
File:18NOV09M #1-347 Acq:18-NOV-2009 15:36:11 GC EI+ Voltage SIR Autospec-Ultima
453.7831 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M1 File Text:Frontier Analytical Laboratory



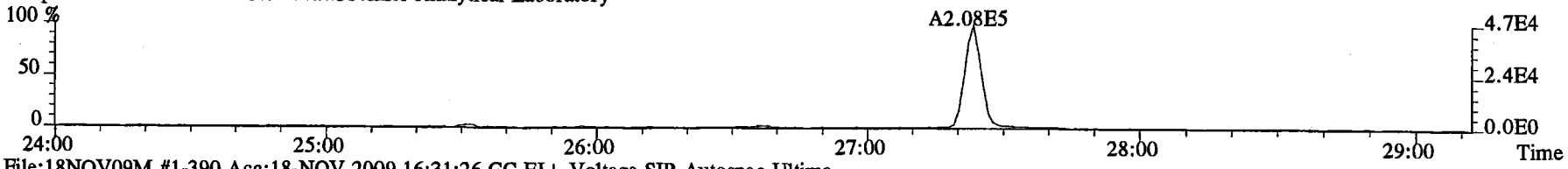
File:18NOV09M #1-347 Acq:18-NOV-2009 15:36:11 GC EI+ Voltage SIR Autospec-Ultima
455.7801 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M1 File Text:Frontier Analytical Laboratory



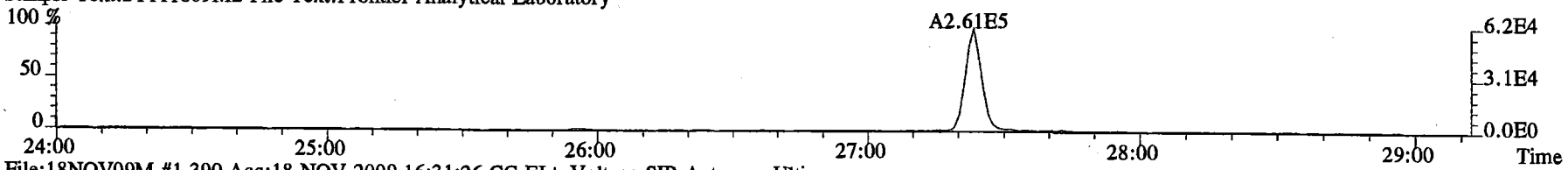
File:18NOV09M #1-347 Acq:18-NOV-2009 15:36:11 GC EI+ Voltage SIR Autospec-Ultima
513.6775 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M1 File Text:Frontier Analytical Laboratory



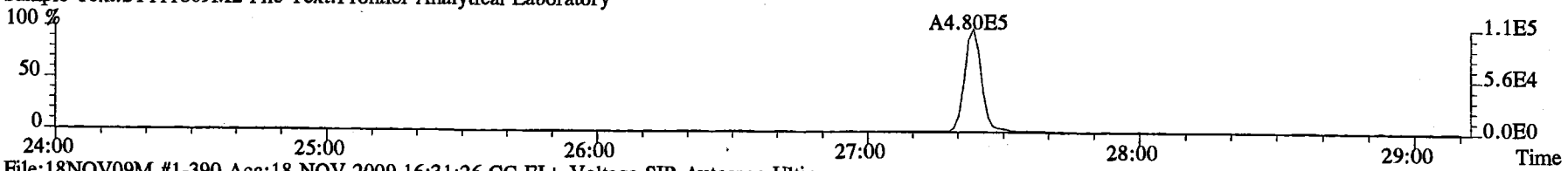
File:18NOV09M #1-390 Acq:18-NOV-2009 16:31:26 GC EI+ Voltage SIR Autospec-Ultima
319.8965 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M2 File Text:Frontier Analytical Laboratory



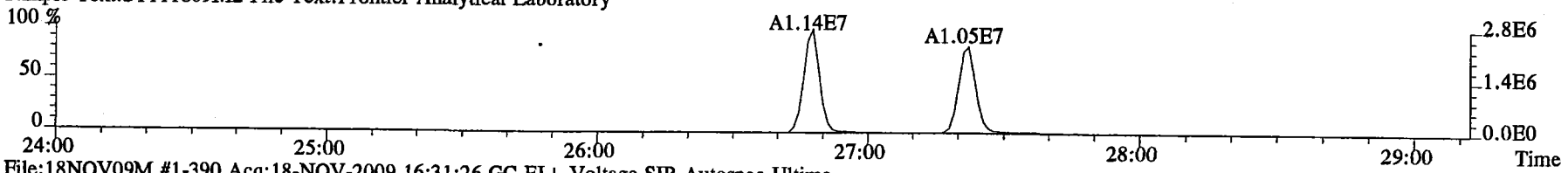
File:18NOV09M #1-390 Acq:18-NOV-2009 16:31:26 GC EI+ Voltage SIR Autospec-Ultima
321.8936 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M2 File Text:Frontier Analytical Laboratory



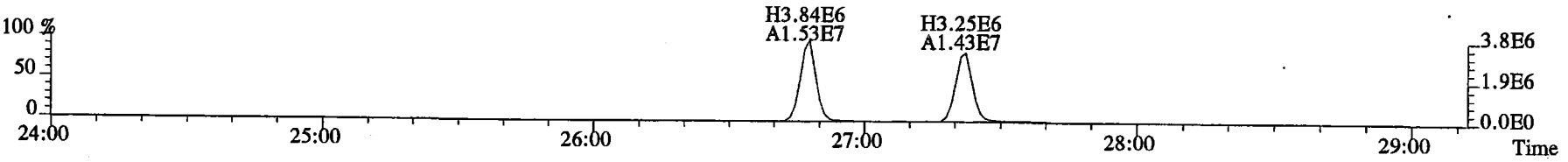
File:18NOV09M #1-390 Acq:18-NOV-2009 16:31:26 GC EI+ Voltage SIR Autospec-Ultima
327.8847 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M2 File Text:Frontier Analytical Laboratory



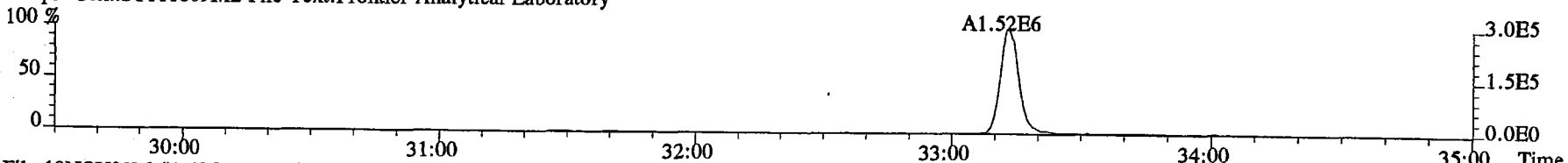
File:18NOV09M #1-390 Acq:18-NOV-2009 16:31:26 GC EI+ Voltage SIR Autospec-Ultima
331.9368 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M2 File Text:Frontier Analytical Laboratory



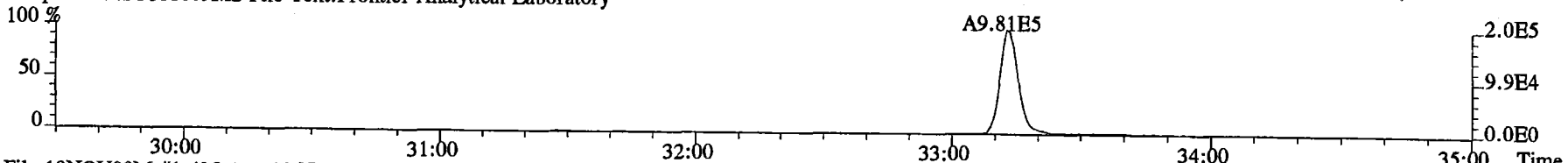
File:18NOV09M #1-390 Acq:18-NOV-2009 16:31:26 GC EI+ Voltage SIR Autospec-Ultima
333.9339 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M2 File Text:Frontier Analytical Laboratory



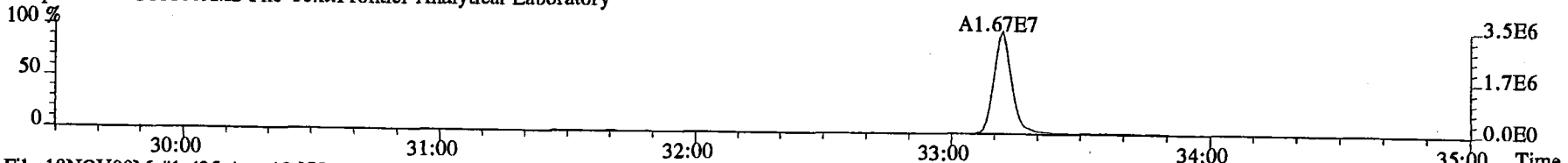
File:18NOV09M #1-425 Acq:18-NOV-2009 16:31:26 GC EI+ Voltage SIR Autospec-Ultima
355.8546 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M2 File Text:Frontier Analytical Laboratory



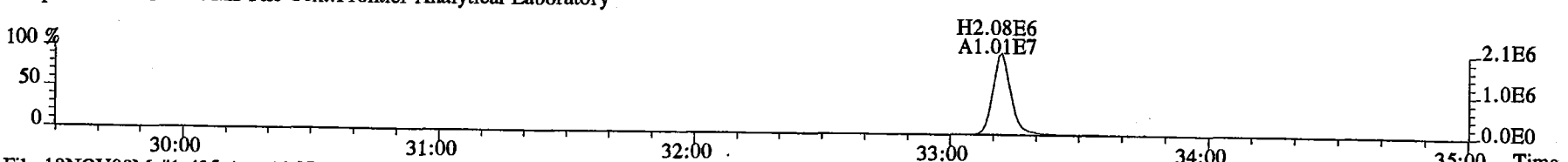
File:18NOV09M #1-425 Acq:18-NOV-2009 16:31:26 GC EI+ Voltage SIR Autospec-Ultima
357.8517 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M2 File Text:Frontier Analytical Laboratory



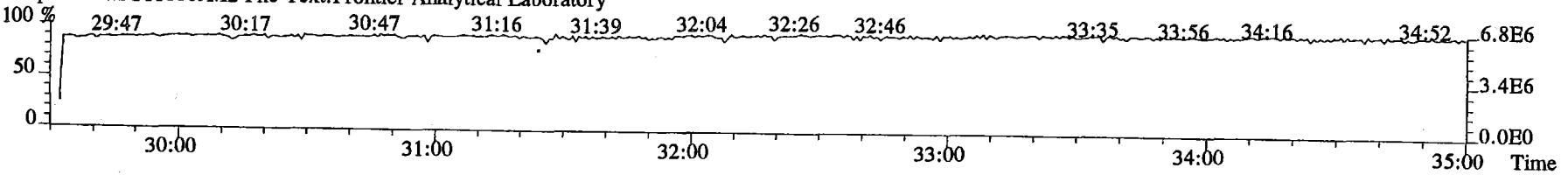
File:18NOV09M #1-425 Acq:18-NOV-2009 16:31:26 GC EI+ Voltage SIR Autospec-Ultima
367.8949 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M2 File Text:Frontier Analytical Laboratory



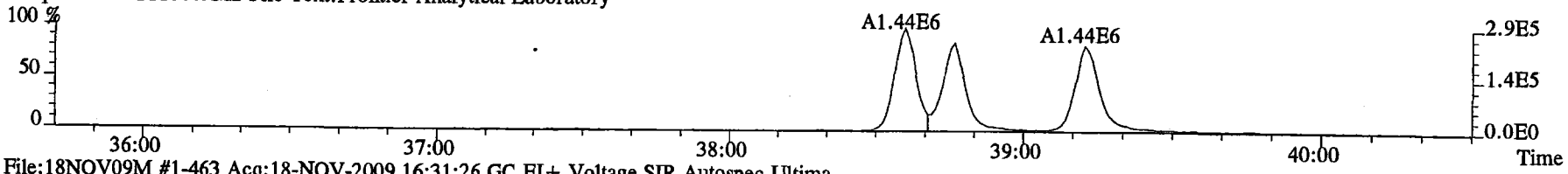
File:18NOV09M #1-425 Acq:18-NOV-2009 16:31:26 GC EI+ Voltage SIR Autospec-Ultima
369.8919 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M2 File Text:Frontier Analytical Laboratory



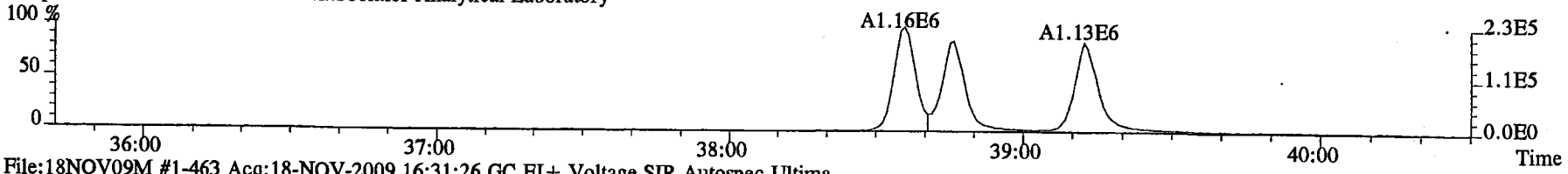
File:18NOV09M #1-425 Acq:18-NOV-2009 16:31:26 GC EI+ Voltage SIR Autospec-Ultima
366.9792 S:4 F:2 Exp:PCDD
Sample Text:ST111809M2 File Text:Frontier Analytical Laboratory



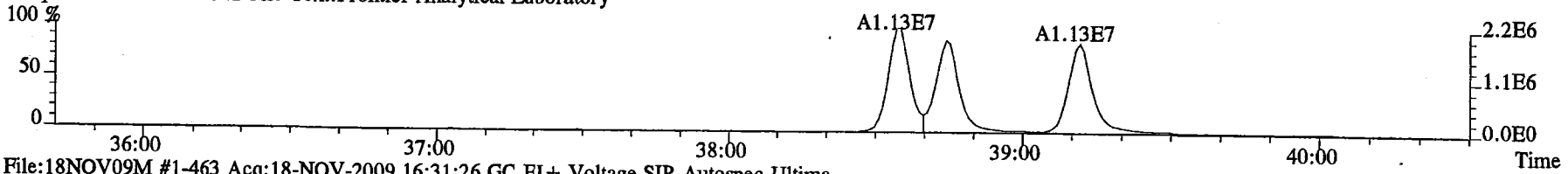
File:18NOV09M #1-463 Acq:18-NOV-2009 16:31:26 GC EI+ Voltage SIR Autospec-Ultima
389.8156 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M2 File Text:Frontier Analytical Laboratory



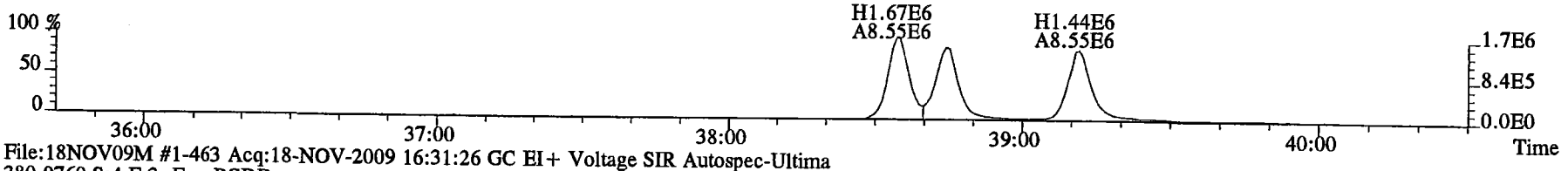
File:18NOV09M #1-463 Acq:18-NOV-2009 16:31:26 GC EI+ Voltage SIR Autospec-Ultima
391.8127 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M2 File Text:Frontier Analytical Laboratory



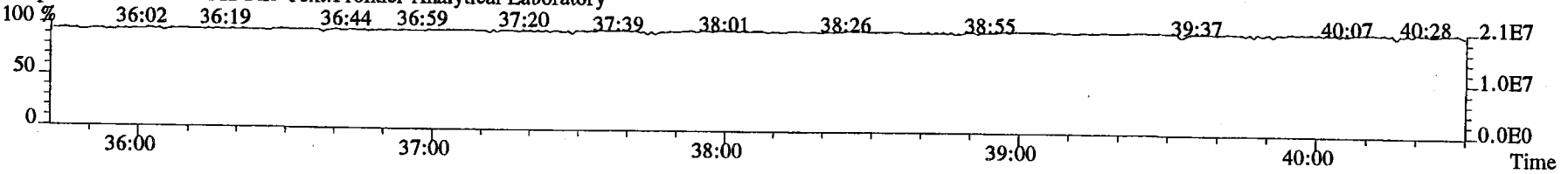
File:18NOV09M #1-463 Acq:18-NOV-2009 16:31:26 GC EI+ Voltage SIR Autospec-Ultima
401.8559 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M2 File Text:Frontier Analytical Laboratory



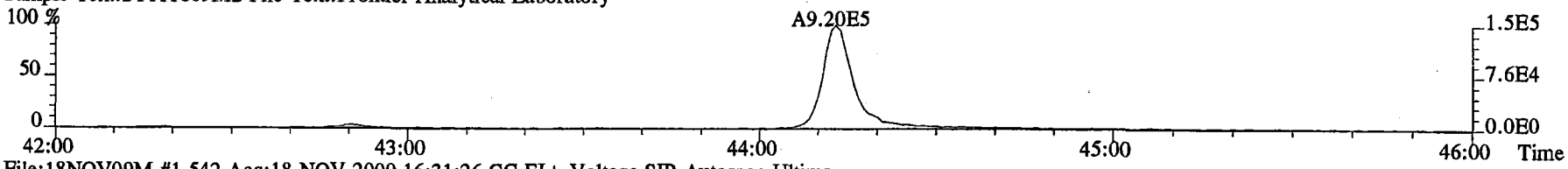
File:18NOV09M #1-463 Acq:18-NOV-2009 16:31:26 GC EI+ Voltage SIR Autospec-Ultima
403.8530 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M2 File Text:Frontier Analytical Laboratory



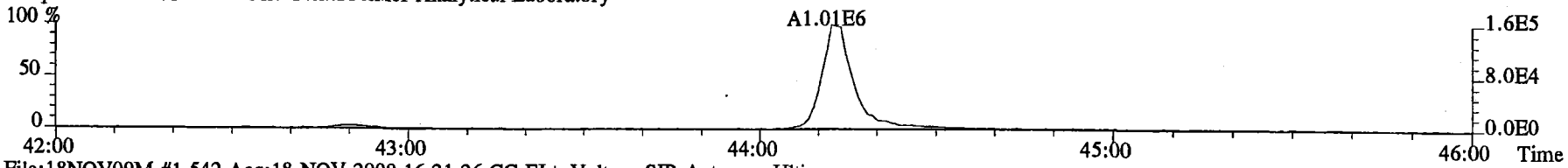
File:18NOV09M #1-463 Acq:18-NOV-2009 16:31:26 GC EI+ Voltage SIR Autospec-Ultima
380.9760 S:4 F:3 Exp:PCDD
Sample Text:ST111809M2 File Text:Frontier Analytical Laboratory



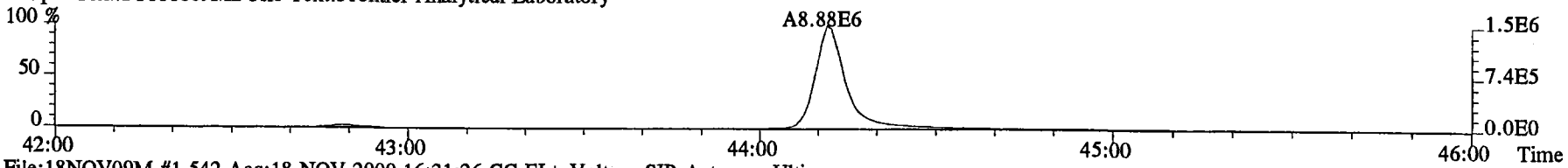
File:18NOV09M #1-542 Acq:18-NOV-2009 16:31:26 GC EI+ Voltage SIR Autospec-Ultima
423.7767 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M2 File Text:Frontier Analytical Laboratory



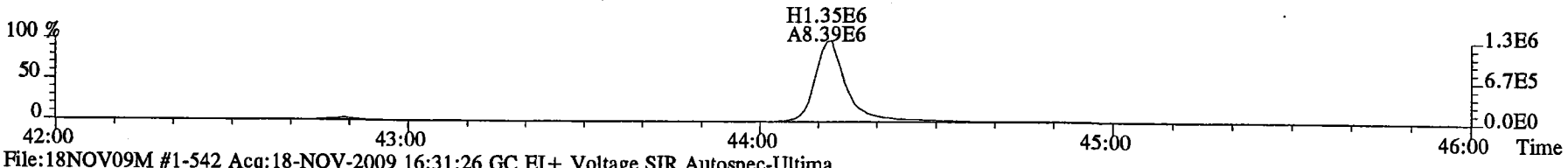
File:18NOV09M #1-542 Acq:18-NOV-2009 16:31:26 GC EI+ Voltage SIR Autospec-Ultima
425.7737 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M2 File Text:Frontier Analytical Laboratory



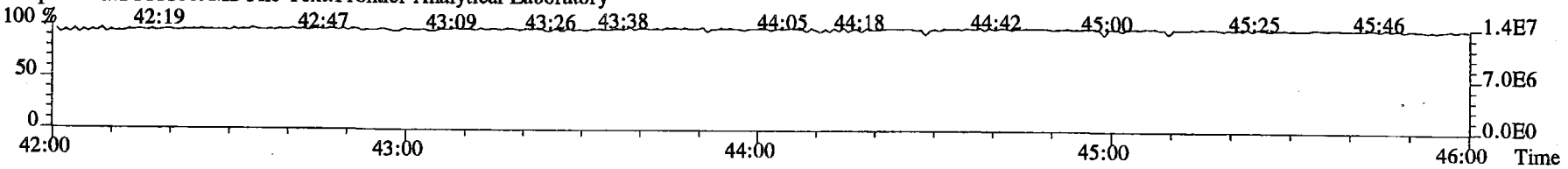
File:18NOV09M #1-542 Acq:18-NOV-2009 16:31:26 GC EI+ Voltage SIR Autospec-Ultima
435.8169 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M2 File Text:Frontier Analytical Laboratory



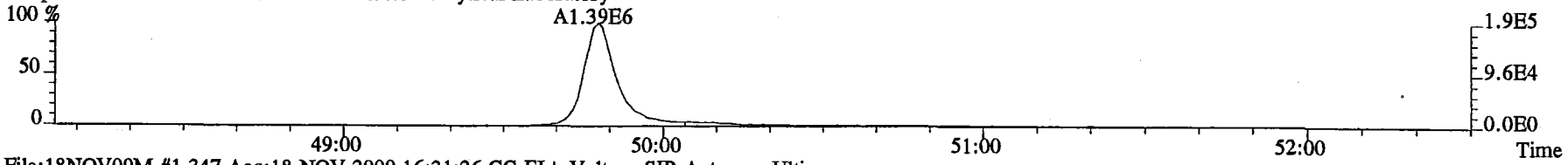
File:18NOV09M #1-542 Acq:18-NOV-2009 16:31:26 GC EI+ Voltage SIR Autospec-Ultima
437.8140 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M2 File Text:Frontier Analytical Laboratory



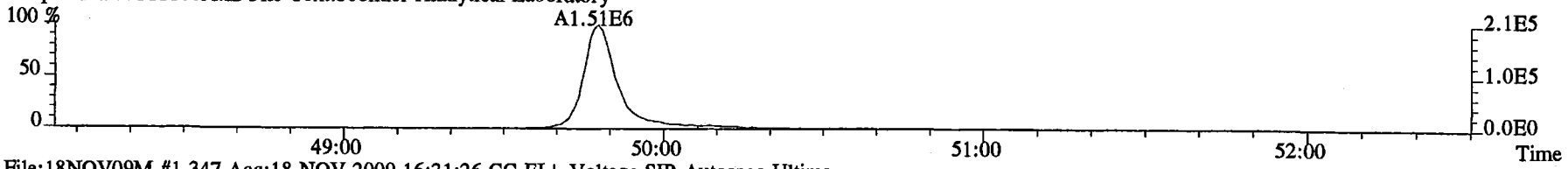
File:18NOV09M #1-542 Acq:18-NOV-2009 16:31:26 GC EI+ Voltage SIR Autospec-Ultima
430.9728 S:4 F:4 Exp:PCDD
Sample Text:ST111809M2 File Text:Frontier Analytical Laboratory



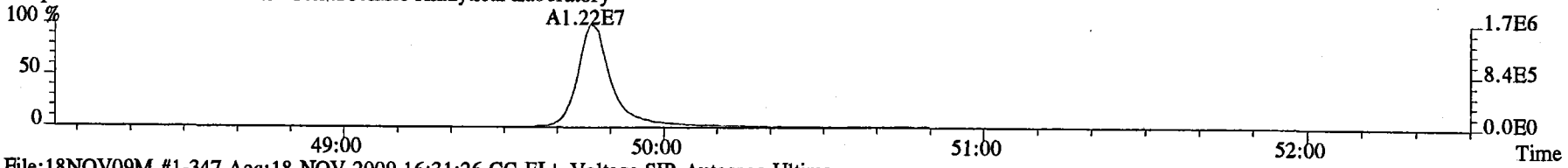
File:18NOV09M #1-347 Acq:18-NOV-2009 16:31:26 GC EI+ Voltage SIR Autospec-Ultima
457.7377 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M2 File Text:Frontier Analytical Laboratory



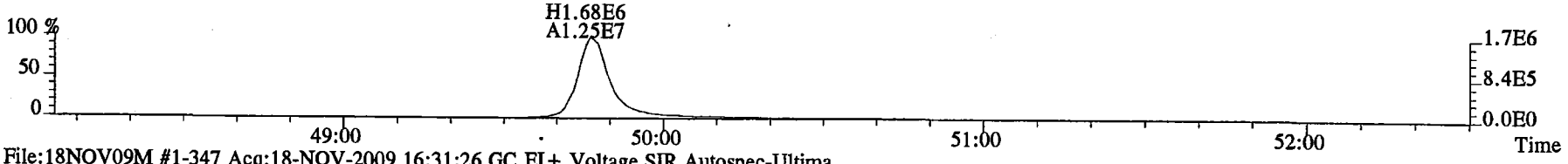
File:18NOV09M #1-347 Acq:18-NOV-2009 16:31:26 GC EI+ Voltage SIR Autospec-Ultima
459.7348 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M2 File Text:Frontier Analytical Laboratory



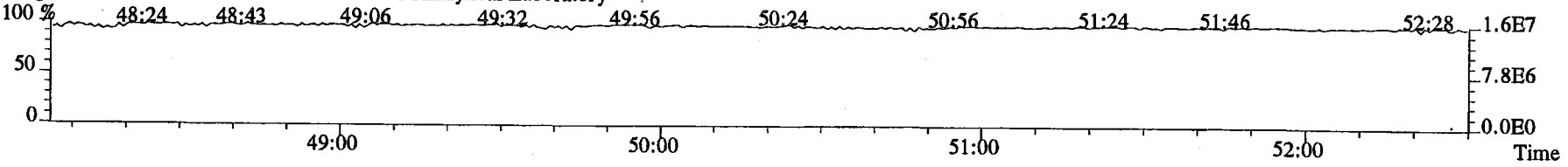
File:18NOV09M #1-347 Acq:18-NOV-2009 16:31:26 GC EI+ Voltage SIR Autospec-Ultima
469.7780 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M2 File Text:Frontier Analytical Laboratory



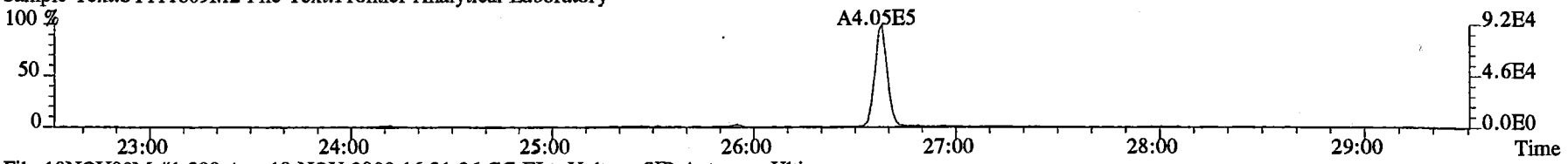
File:18NOV09M #1-347 Acq:18-NOV-2009 16:31:26 GC EI+ Voltage SIR Autospec-Ultima
471.7750 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M2 File Text:Frontier Analytical Laboratory



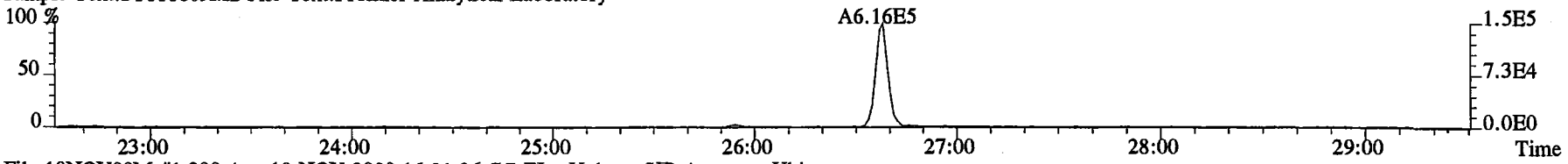
File:18NOV09M #1-347 Acq:18-NOV-2009 16:31:26 GC EI+ Voltage SIR Autospec-Ultima
454.9728 S:4 F:5 Exp:PCDD
Sample Text:ST111809M2 File Text:Frontier Analytical Laboratory



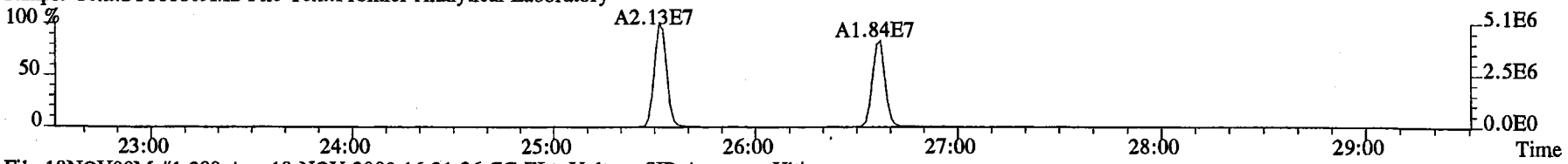
File:18NOV09M #1-390 Acq:18-NOV-2009 16:31:26 GC EI+ Voltage SIR Autospec-Ultima
303.9016 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M2 File Text:Frontier Analytical Laboratory



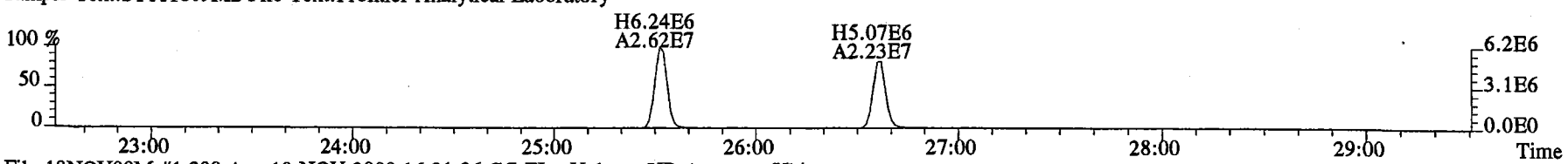
File:18NOV09M #1-390 Acq:18-NOV-2009 16:31:26 GC EI+ Voltage SIR Autospec-Ultima
305.8987 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M2 File Text:Frontier Analytical Laboratory



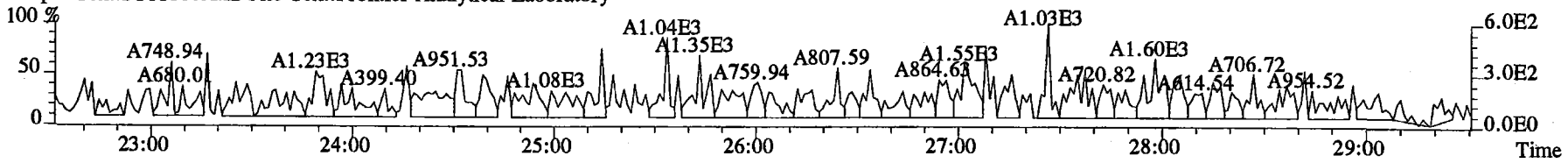
File:18NOV09M #1-390 Acq:18-NOV-2009 16:31:26 GC EI+ Voltage SIR Autospec-Ultima
315.9419 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M2 File Text:Frontier Analytical Laboratory



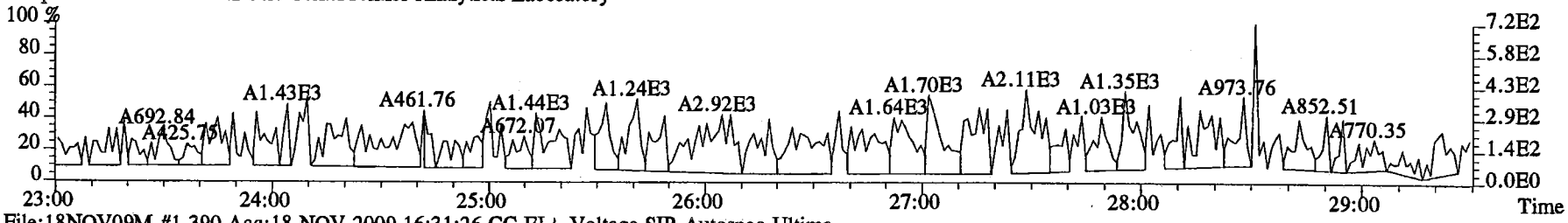
File:18NOV09M #1-390 Acq:18-NOV-2009 16:31:26 GC EI+ Voltage SIR Autospec-Ultima
317.9389 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M2 File Text:Frontier Analytical Laboratory



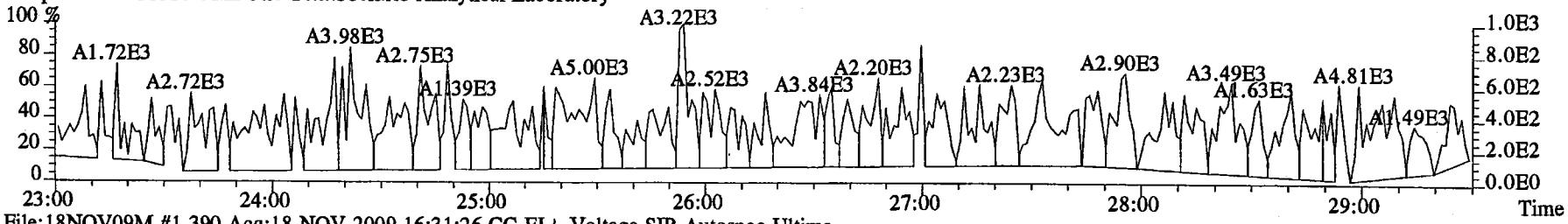
File:18NOV09M #1-390 Acq:18-NOV-2009 16:31:26 GC EI+ Voltage SIR Autospec-Ultima
375.8364 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M2 File Text:Frontier Analytical Laboratory



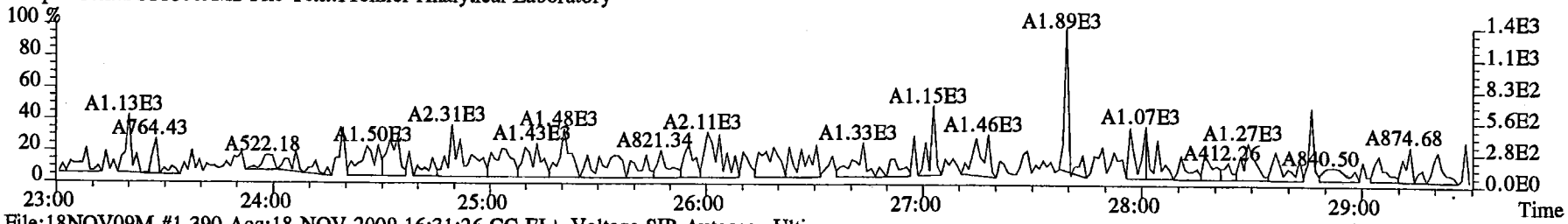
File:18NOV09M #1-390 Acq:18-NOV-2009 16:31:26 GC EI+ Voltage SIR Autospec-Ultima
339.8597 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M2 File Text:Frontier Analytical Laboratory



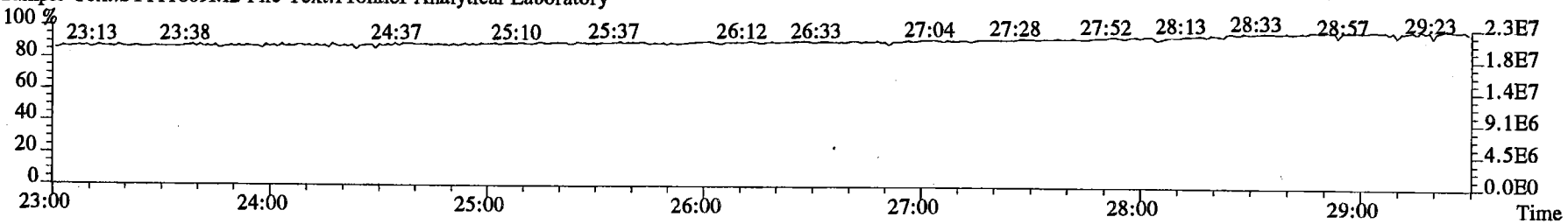
File:18NOV09M #1-390 Acq:18-NOV-2009 16:31:26 GC EI+ Voltage SIR Autospec-Ultima
341.8568 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M2 File Text:Frontier Analytical Laboratory



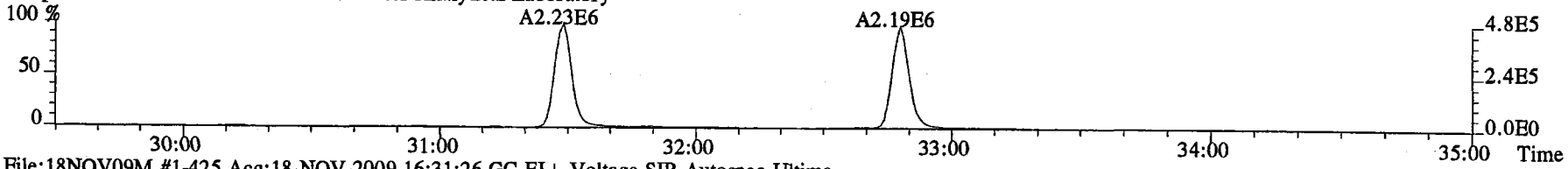
File:18NOV09M #1-390 Acq:18-NOV-2009 16:31:26 GC EI+ Voltage SIR Autospec-Ultima
409.7974 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M2 File Text:Frontier Analytical Laboratory



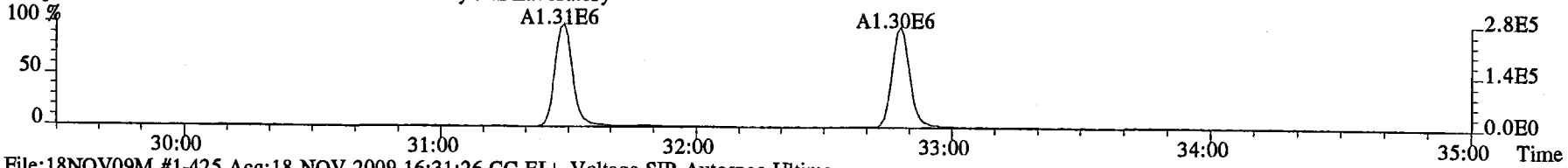
File:18NOV09M #1-390 Acq:18-NOV-2009 16:31:26 GC EI+ Voltage SIR Autospec-Ultima
330.9792 S:4 Exp:PCDD
Sample Text:ST111809M2 File Text:Frontier Analytical Laboratory



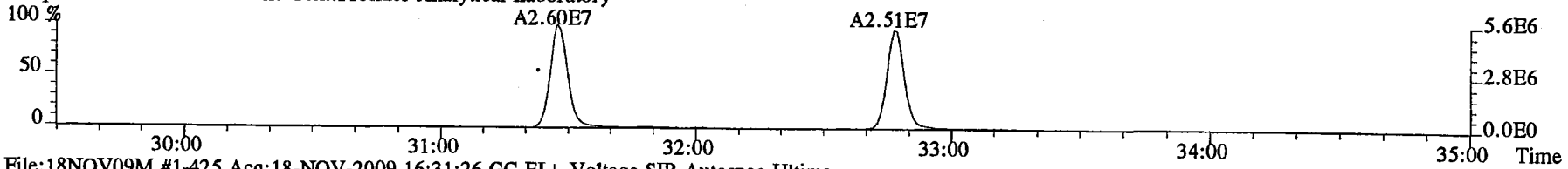
File:18NOV09M #1-425 Acq:18-NOV-2009 16:31:26 GC EI+ Voltage SIR Autospec-Ultima
339.8597 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M2 File Text:Frontier Analytical Laboratory



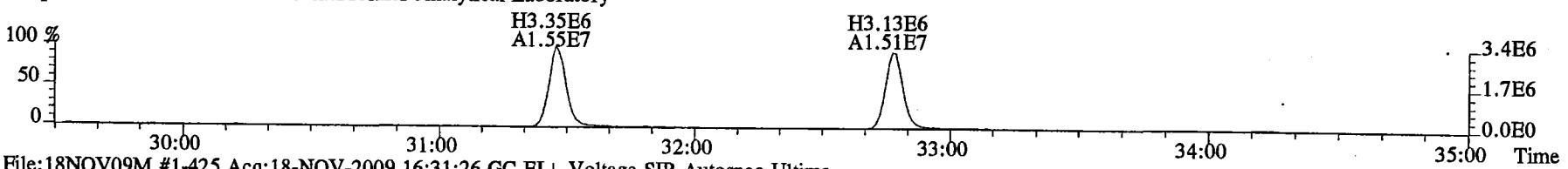
File:18NOV09M #1-425 Acq:18-NOV-2009 16:31:26 GC EI+ Voltage SIR Autospec-Ultima
341.8568 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M2 File Text:Frontier Analytical Laboratory



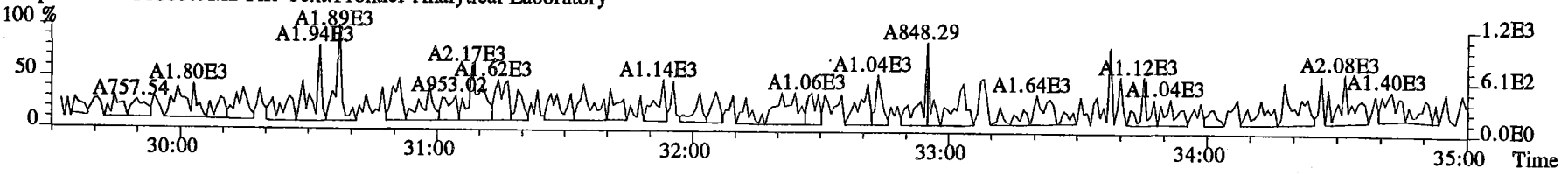
File:18NOV09M #1-425 Acq:18-NOV-2009 16:31:26 GC EI+ Voltage SIR Autospec-Ultima
351.9000 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M2 File Text:Frontier Analytical Laboratory



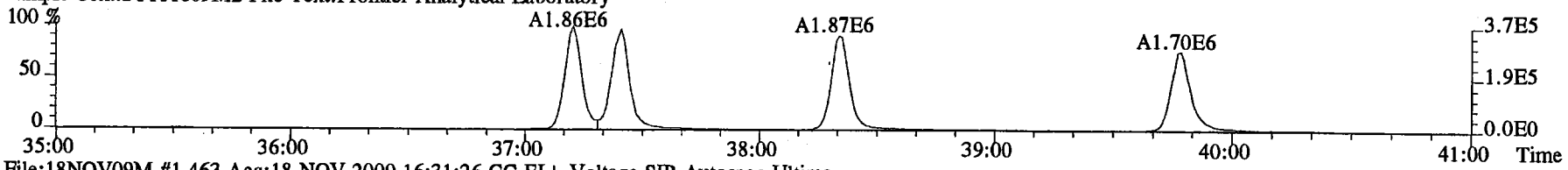
File:18NOV09M #1-425 Acq:18-NOV-2009 16:31:26 GC EI+ Voltage SIR Autospec-Ultima
353.8970 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M2 File Text:Frontier Analytical Laboratory



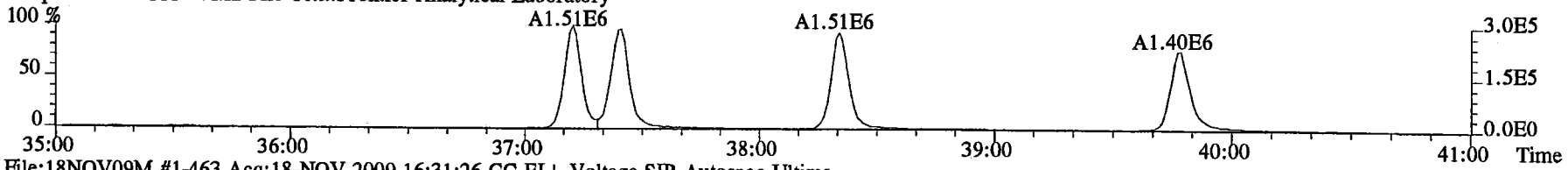
File:18NOV09M #1-425 Acq:18-NOV-2009 16:31:26 GC EI+ Voltage SIR Autospec-Ultima
409.7974 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M2 File Text:Frontier Analytical Laboratory



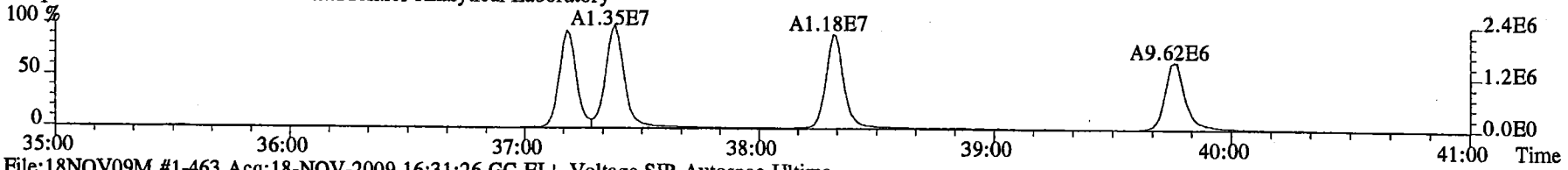
File:18NOV09M #1-463 Acq:18-NOV-2009 16:31:26 GC EI+ Voltage SIR Autospec-Ultima
373.8207 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M2 File Text:Frontier Analytical Laboratory



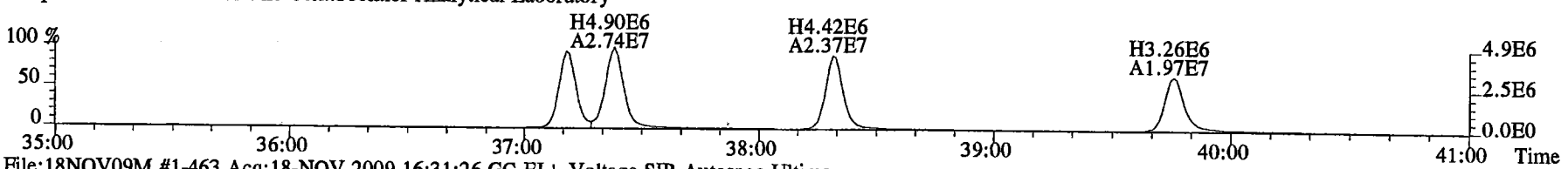
File:18NOV09M #1-463 Acq:18-NOV-2009 16:31:26 GC EI+ Voltage SIR Autospec-Ultima
375.8178 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M2 File Text:Frontier Analytical Laboratory



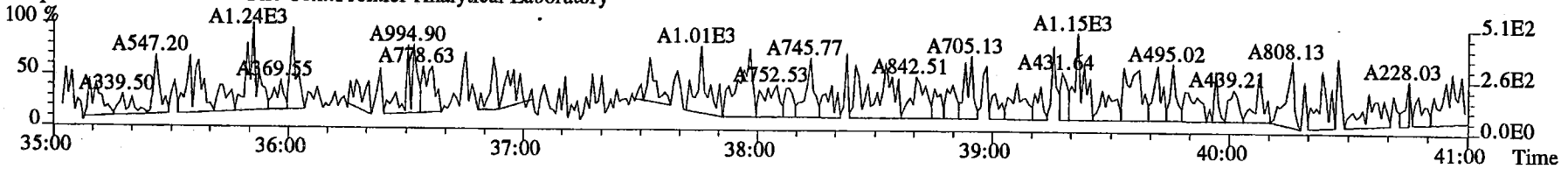
File:18NOV09M #1-463 Acq:18-NOV-2009 16:31:26 GC EI+ Voltage SIR Autospec-Ultima
383.8639 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M2 File Text:Frontier Analytical Laboratory



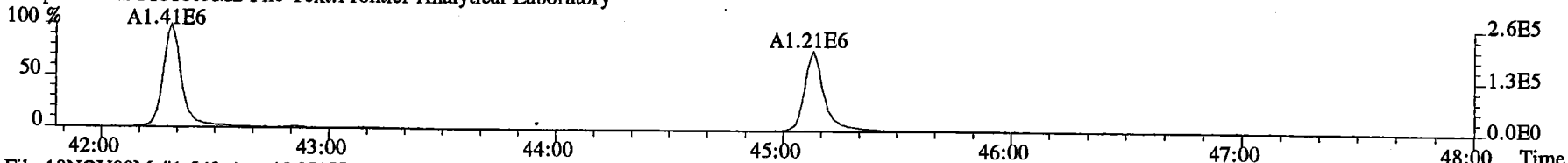
File:18NOV09M #1-463 Acq:18-NOV-2009 16:31:26 GC EI+ Voltage SIR Autospec-Ultima
385.8610 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M2 File Text:Frontier Analytical Laboratory



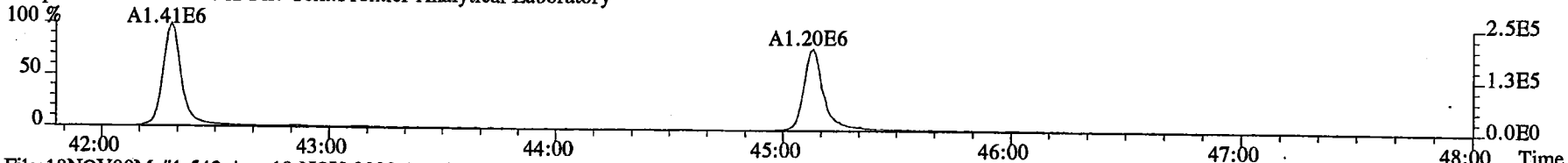
File:18NOV09M #1-463 Acq:18-NOV-2009 16:31:26 GC EI+ Voltage SIR Autospec-Ultima
445.7555 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M2 File Text:Frontier Analytical Laboratory



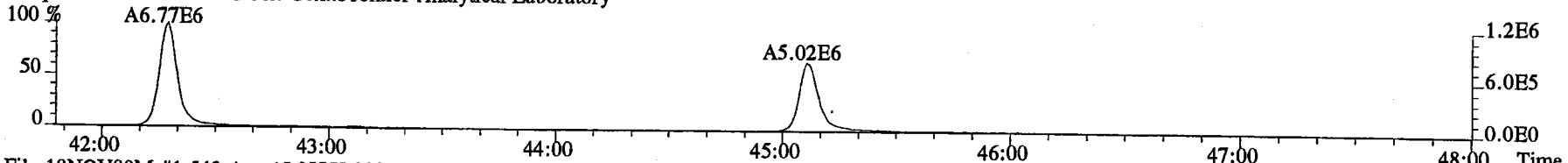
File:18NOV09M #1-542 Acq:18-NOV-2009 16:31:26 GC EI+ Voltage SIR Autospec-Ultima
407.7818 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M2 File Text:Frontier Analytical Laboratory



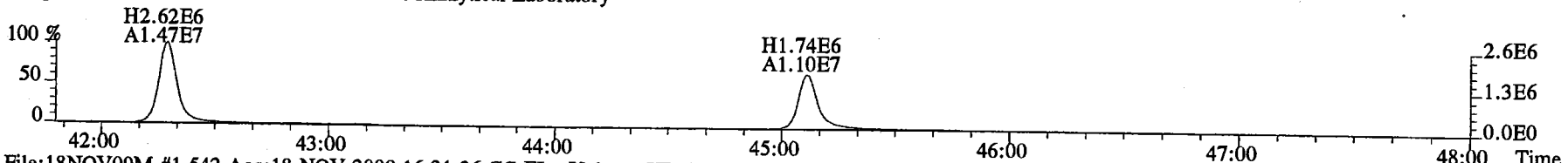
File:18NOV09M #1-542 Acq:18-NOV-2009 16:31:26 GC EI+ Voltage SIR Autospec-Ultima
409.7788 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M2 File Text:Frontier Analytical Laboratory



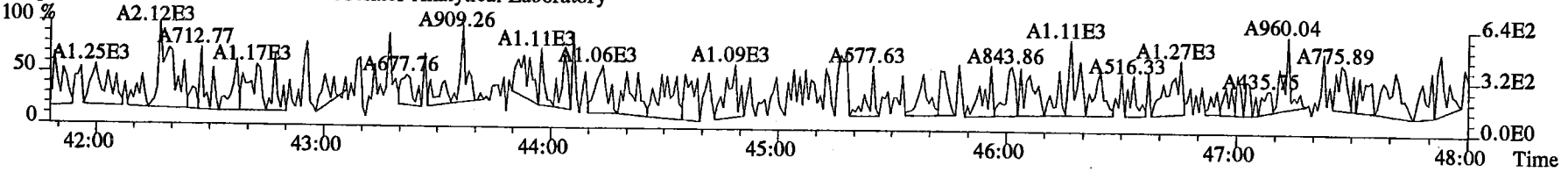
File:18NOV09M #1-542 Acq:18-NOV-2009 16:31:26 GC EI+ Voltage SIR Autospec-Ultima
417.8253 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M2 File Text:Frontier Analytical Laboratory



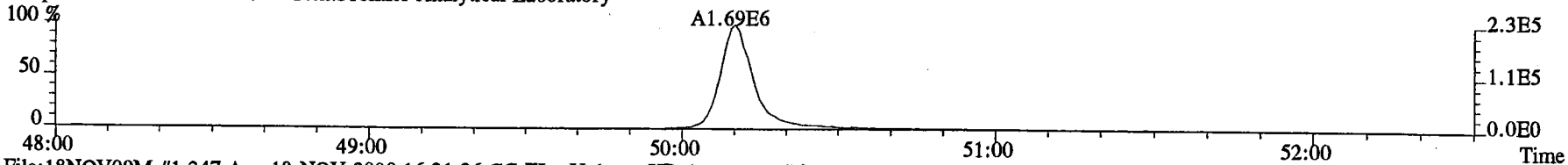
File:18NOV09M #1-542 Acq:18-NOV-2009 16:31:26 GC EI+ Voltage SIR Autospec-Ultima
419.8220 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M2 File Text:Frontier Analytical Laboratory



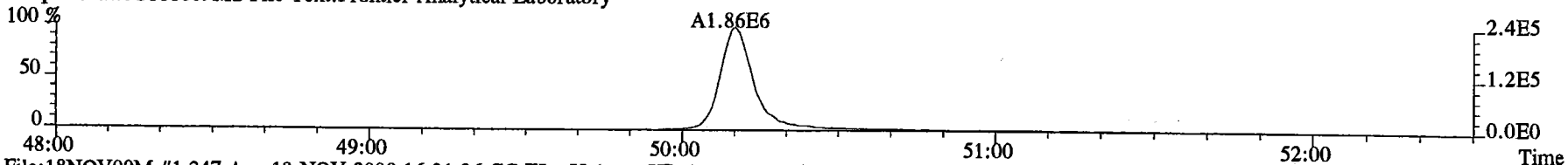
File:18NOV09M #1-542 Acq:18-NOV-2009 16:31:26 GC EI+ Voltage SIR Autospec-Ultima
479.7165 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M2 File Text:Frontier Analytical Laboratory



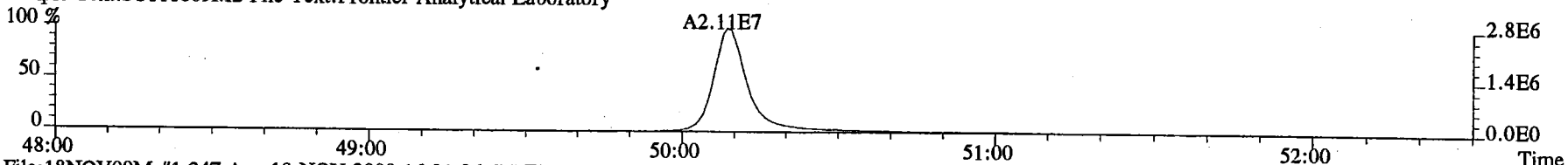
File:18NOV09M #1-347 Acq:18-NOV-2009 16:31:26 GC EI+ Voltage SIR Autospec-Ultima
441.7428 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M2 File Text:Frontier Analytical Laboratory



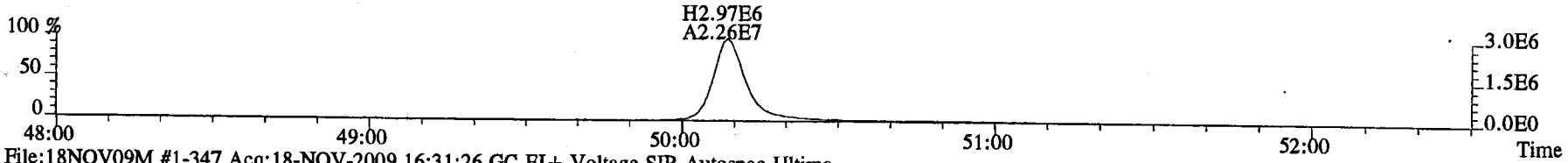
File:18NOV09M #1-347 Acq:18-NOV-2009 16:31:26 GC EI+ Voltage SIR Autospec-Ultima
443.7398 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M2 File Text:Frontier Analytical Laboratory



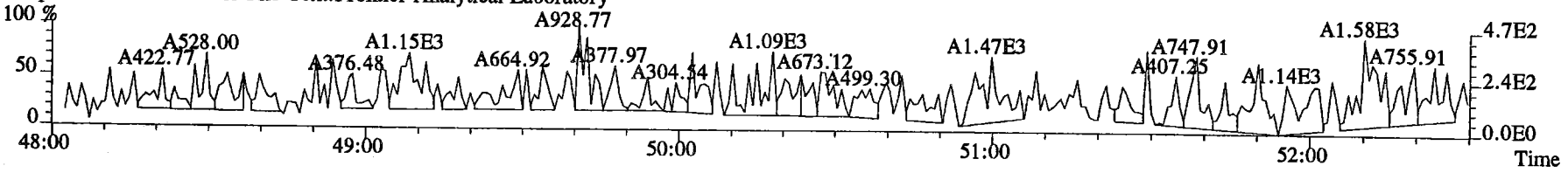
File:18NOV09M #1-347 Acq:18-NOV-2009 16:31:26 GC EI+ Voltage SIR Autospec-Ultima
453.7831 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M2 File Text:Frontier Analytical Laboratory



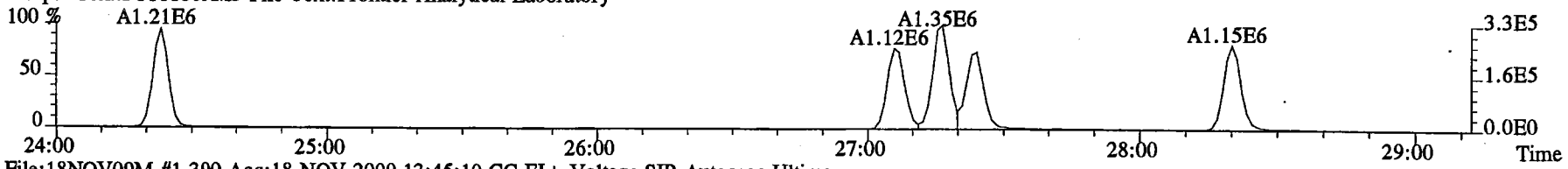
File:18NOV09M #1-347 Acq:18-NOV-2009 16:31:26 GC EI+ Voltage SIR Autospec-Ultima
455.7801 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M2 File Text:Frontier Analytical Laboratory



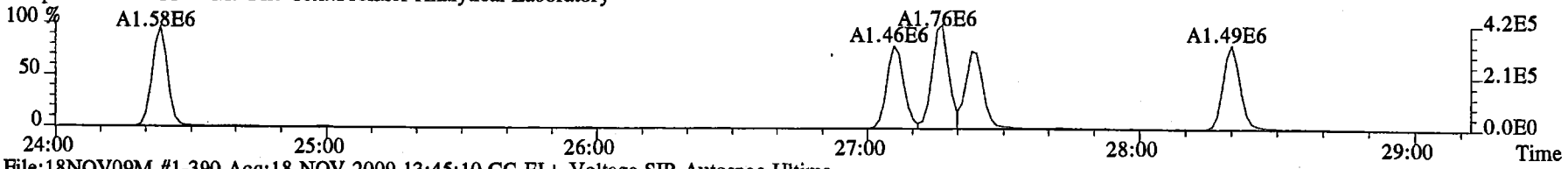
File:18NOV09M #1-347 Acq:18-NOV-2009 16:31:26 GC EI+ Voltage SIR Autospec-Ultima
513.6775 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M2 File Text:Frontier Analytical Laboratory



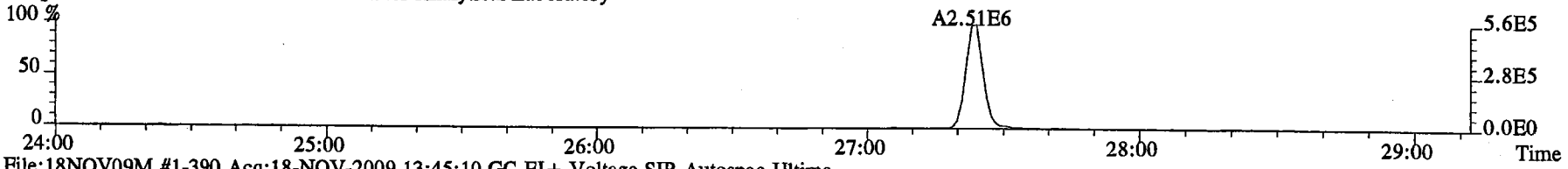
File:18NOV09M #1-390 Acq:18-NOV-2009 13:45:10 GC EI+ Voltage SIR Autospec-Ultima
319.8965 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M3 File Text:Frontier Analytical Laboratory



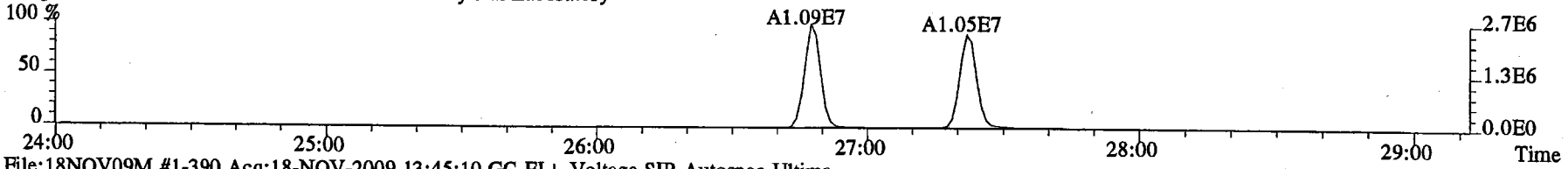
File:18NOV09M #1-390 Acq:18-NOV-2009 13:45:10 GC EI+ Voltage SIR Autospec-Ultima
321.8936 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M3 File Text:Frontier Analytical Laboratory



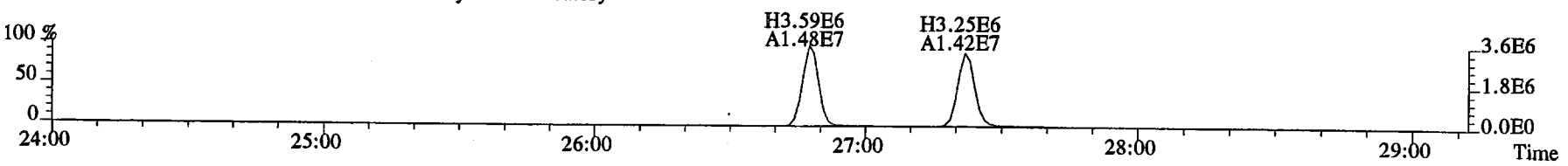
File:18NOV09M #1-390 Acq:18-NOV-2009 13:45:10 GC EI+ Voltage SIR Autospec-Ultima
327.8847 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M3 File Text:Frontier Analytical Laboratory



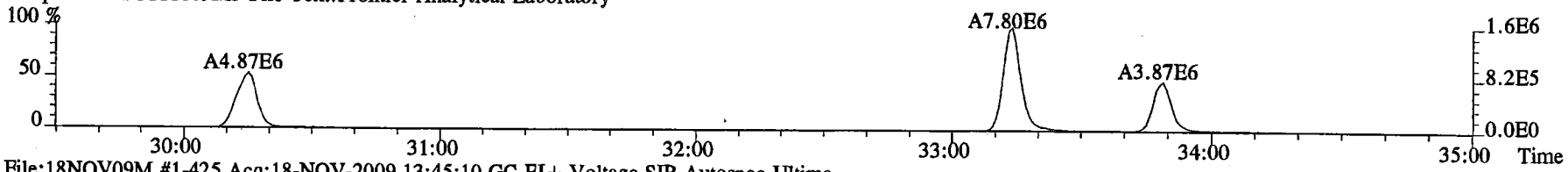
File:18NOV09M #1-390 Acq:18-NOV-2009 13:45:10 GC EI+ Voltage SIR Autospec-Ultima
331.9368 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M3 File Text:Frontier Analytical Laboratory



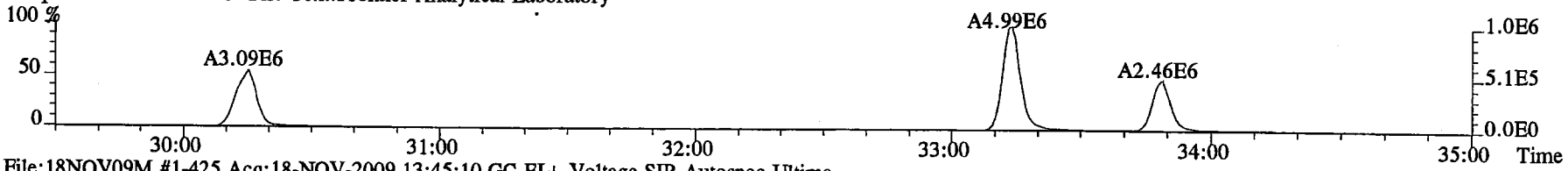
File:18NOV09M #1-390 Acq:18-NOV-2009 13:45:10 GC EI+ Voltage SIR Autospec-Ultima
333.9339 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M3 File Text:Frontier Analytical Laboratory



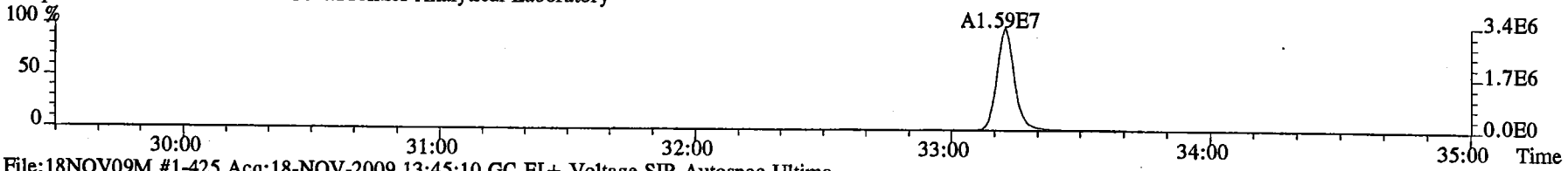
File:18NOV09M #1-425 Acq:18-NOV-2009 13:45:10 GC EI+ Voltage SIR Autospec-Ultima
355.8546 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M3 File Text:Frontier Analytical Laboratory



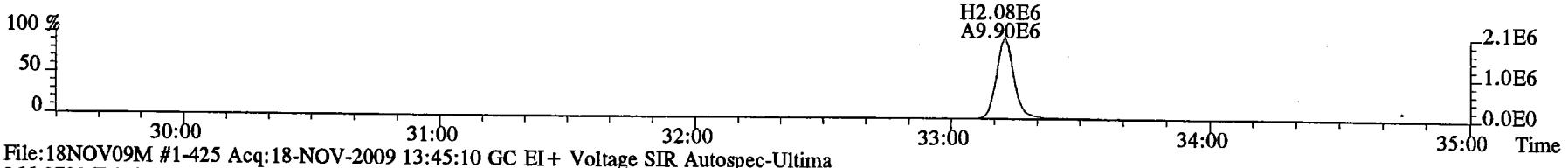
File:18NOV09M #1-425 Acq:18-NOV-2009 13:45:10 GC EI+ Voltage SIR Autospec-Ultima
357.8517 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M3 File Text:Frontier Analytical Laboratory



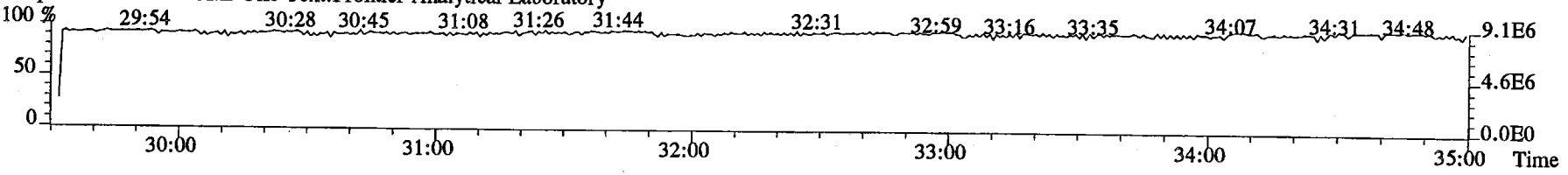
File:18NOV09M #1-425 Acq:18-NOV-2009 13:45:10 GC EI+ Voltage SIR Autospec-Ultima
367.8949 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M3 File Text:Frontier Analytical Laboratory



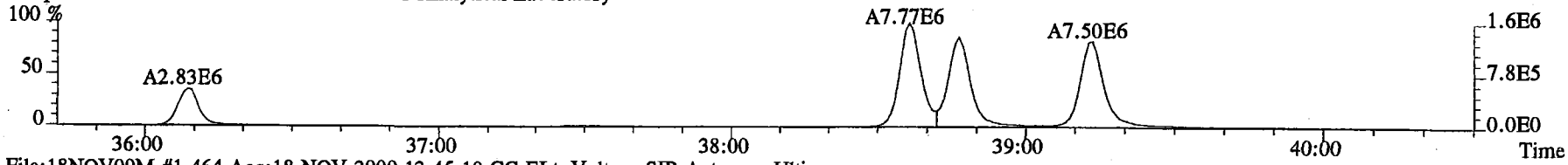
File:18NOV09M #1-425 Acq:18-NOV-2009 13:45:10 GC EI+ Voltage SIR Autospec-Ultima
369.8919 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M3 File Text:Frontier Analytical Laboratory



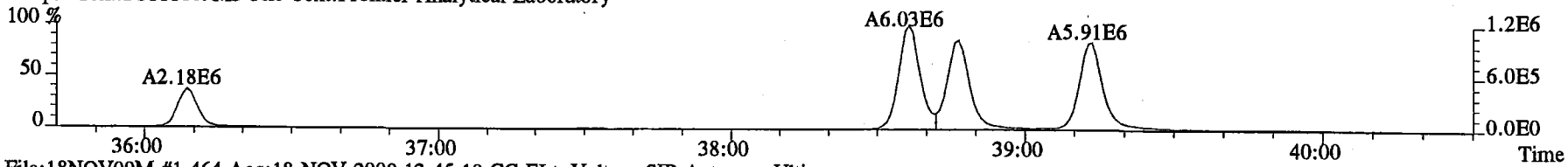
File:18NOV09M #1-425 Acq:18-NOV-2009 13:45:10 GC EI+ Voltage SIR Autospec-Ultima
366.9792 F:2 Exp:PCDD
Sample Text:ST111809M3 File Text:Frontier Analytical Laboratory



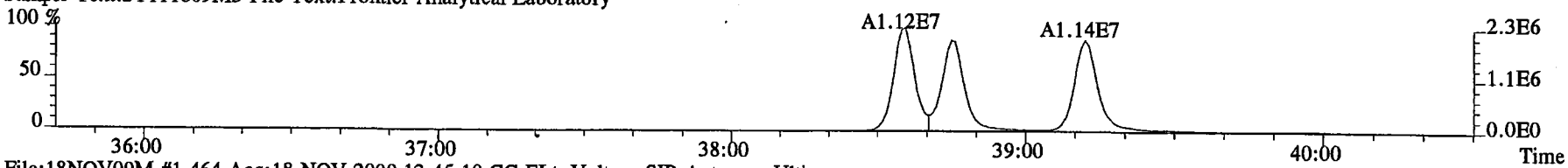
File:18NOV09M #1-464 Acq:18-NOV-2009 13:45:10 GC EI+ Voltage SIR Autospec-Ultima
389.8156 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M3 File Text:Frontier Analytical Laboratory



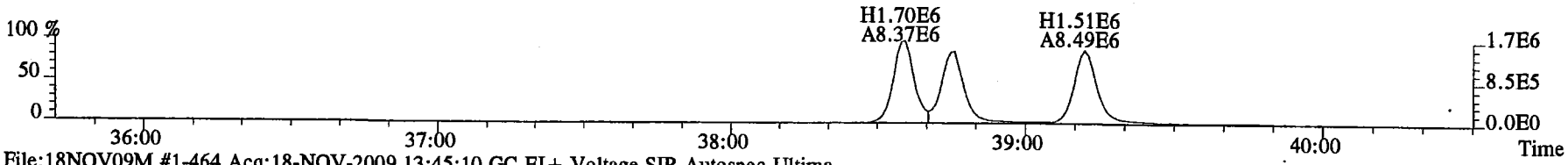
File:18NOV09M #1-464 Acq:18-NOV-2009 13:45:10 GC EI+ Voltage SIR Autospec-Ultima
391.8127 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M3 File Text:Frontier Analytical Laboratory



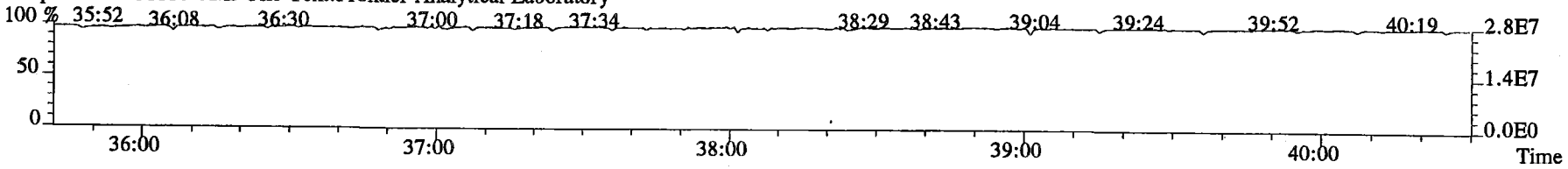
File:18NOV09M #1-464 Acq:18-NOV-2009 13:45:10 GC EI+ Voltage SIR Autospec-Ultima
401.8559 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M3 File Text:Frontier Analytical Laboratory



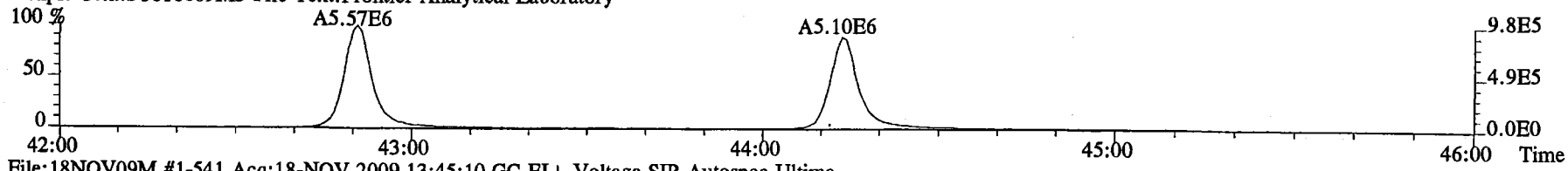
File:18NOV09M #1-464 Acq:18-NOV-2009 13:45:10 GC EI+ Voltage SIR Autospec-Ultima
403.8530 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M3 File Text:Frontier Analytical Laboratory



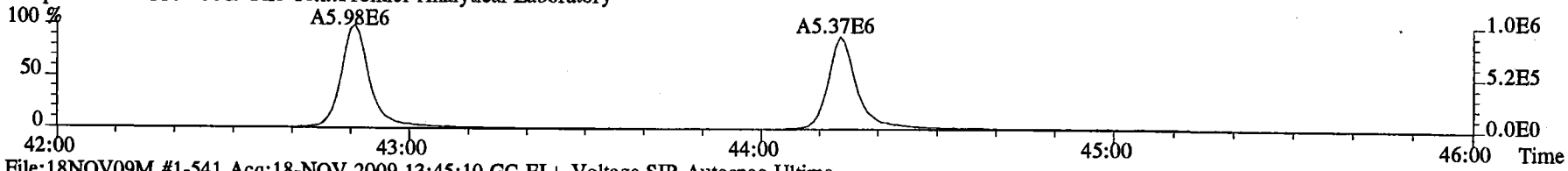
File:18NOV09M #1-464 Acq:18-NOV-2009 13:45:10 GC EI+ Voltage SIR Autospec-Ultima
380.9760 F:3 Exp:PCDD
Sample Text:ST111809M3 File Text:Frontier Analytical Laboratory



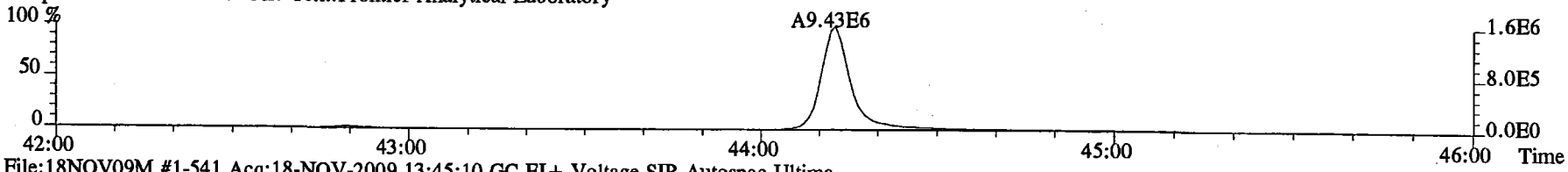
File:18NOV09M #1-541 Acq:18-NOV-2009 13:45:10 GC EI+ Voltage SIR Autospec-Ultima
423.7767 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M3 File Text:Frontier Analytical Laboratory



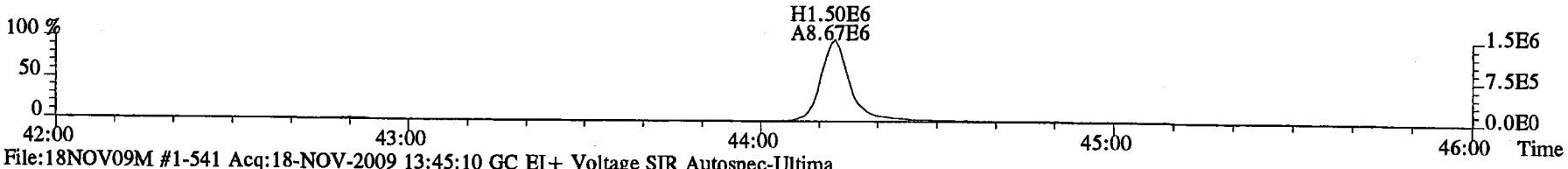
File:18NOV09M #1-541 Acq:18-NOV-2009 13:45:10 GC EI+ Voltage SIR Autospec-Ultima
425.7737 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M3 File Text:Frontier Analytical Laboratory



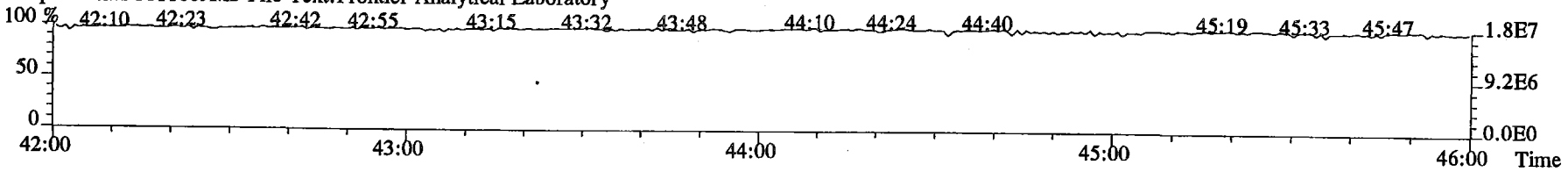
File:18NOV09M #1-541 Acq:18-NOV-2009 13:45:10 GC EI+ Voltage SIR Autospec-Ultima
435.8169 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M3 File Text:Frontier Analytical Laboratory



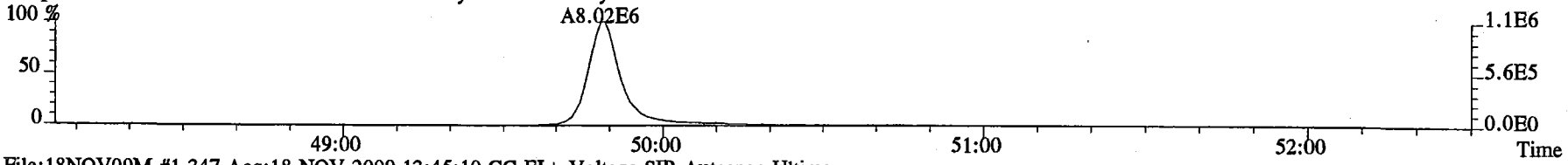
File:18NOV09M #1-541 Acq:18-NOV-2009 13:45:10 GC EI+ Voltage SIR Autospec-Ultima
437.8140 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M3 File Text:Frontier Analytical Laboratory



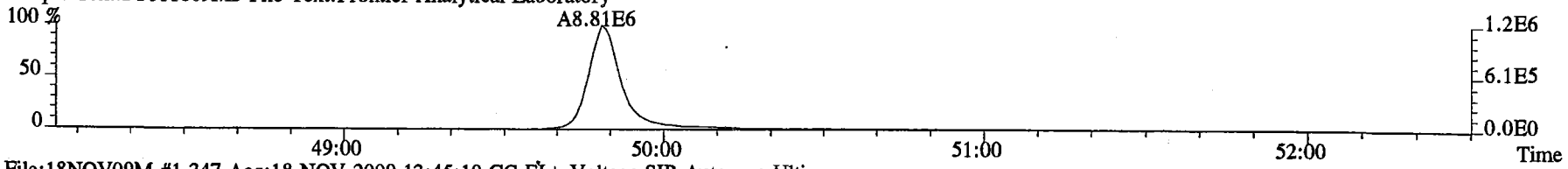
File:18NOV09M #1-541 Acq:18-NOV-2009 13:45:10 GC EI+ Voltage SIR Autospec-Ultima
430.9728 F:4 Exp:PCDD
Sample Text:ST111809M3 File Text:Frontier Analytical Laboratory



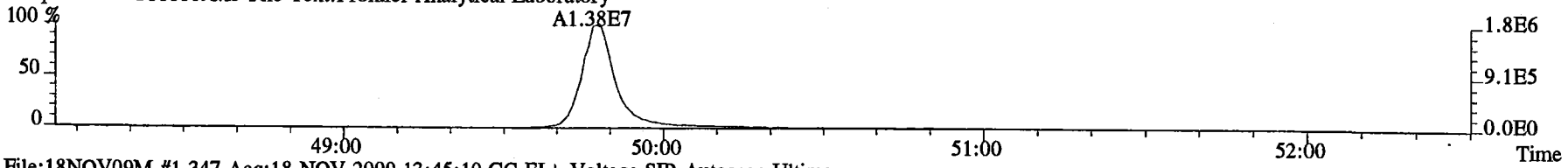
File:18NOV09M #1-347 Acq:18-NOV-2009 13:45:10 GC EI+ Voltage SIR Autospec-Ultima
457.7377 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M3 File Text:Frontier Analytical Laboratory



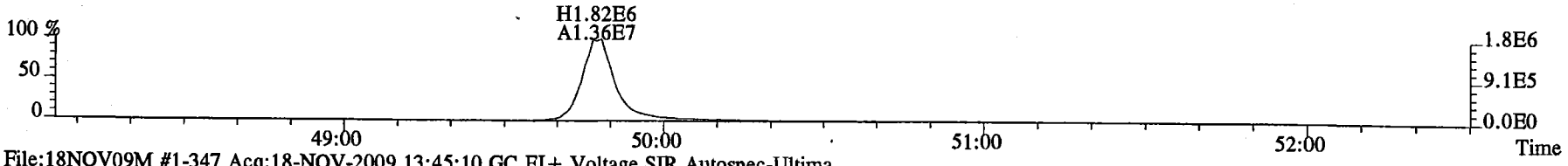
File:18NOV09M #1-347 Acq:18-NOV-2009 13:45:10 GC EI+ Voltage SIR Autospec-Ultima
459.7348 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M3 File Text:Frontier Analytical Laboratory



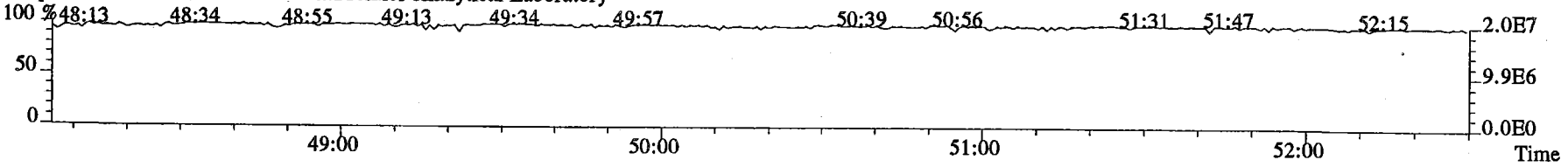
File:18NOV09M #1-347 Acq:18-NOV-2009 13:45:10 GC EI+ Voltage SIR Autospec-Ultima
469.7780 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M3 File Text:Frontier Analytical Laboratory



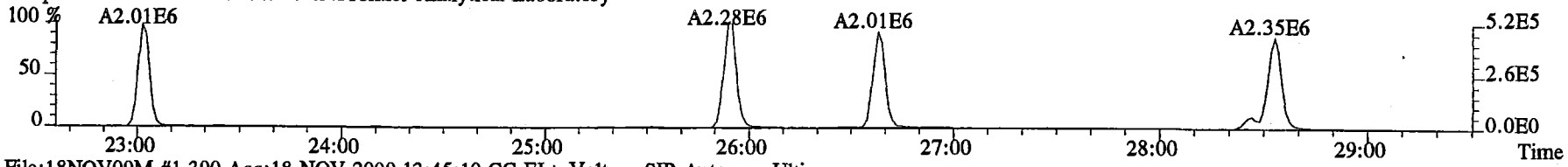
File:18NOV09M #1-347 Acq:18-NOV-2009 13:45:10 GC EI+ Voltage SIR Autospec-Ultima
471.7750 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M3 File Text:Frontier Analytical Laboratory



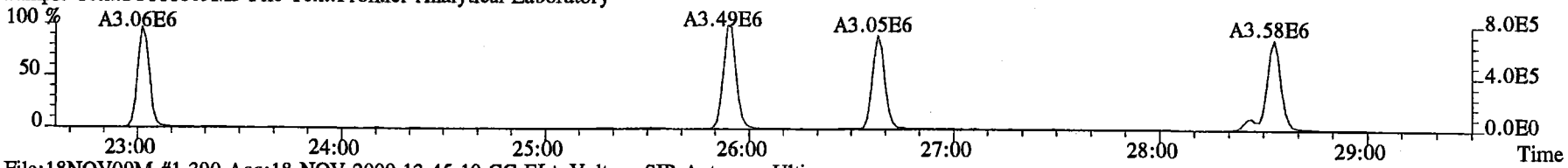
File:18NOV09M #1-347 Acq:18-NOV-2009 13:45:10 GC EI+ Voltage SIR Autospec-Ultima
454.9728 F:5 Exp:PCDD
Sample Text:ST111809M3 File Text:Frontier Analytical Laboratory



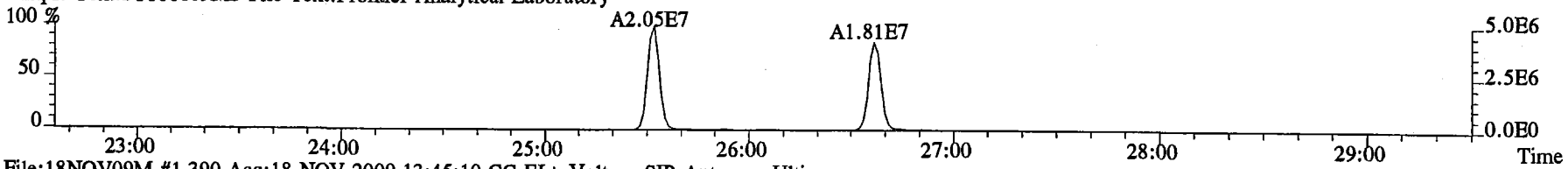
File:18NOV09M #1-390 Acq:18-NOV-2009 13:45:10 GC EI+ Voltage SIR Autospec-Ultima
303.9016 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M3 File Text:Frontier Analytical Laboratory



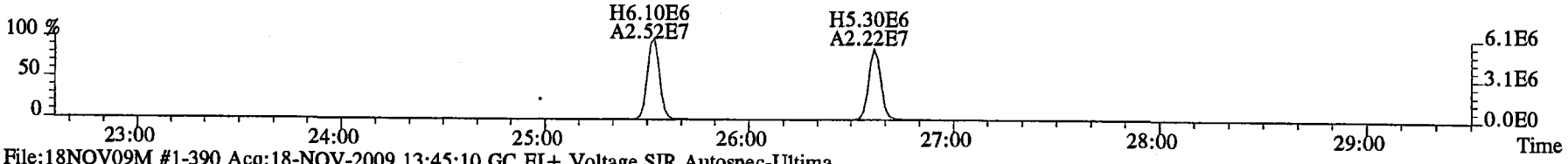
File:18NOV09M #1-390 Acq:18-NOV-2009 13:45:10 GC EI+ Voltage SIR Autospec-Ultima
305.8987 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M3 File Text:Frontier Analytical Laboratory



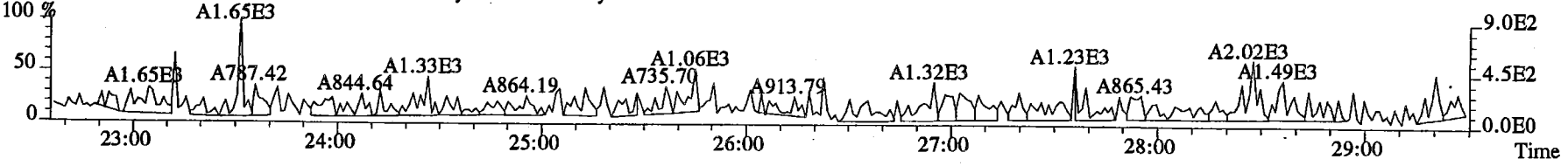
File:18NOV09M #1-390 Acq:18-NOV-2009 13:45:10 GC EI+ Voltage SIR Autospec-Ultima
315.9419 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M3 File Text:Frontier Analytical Laboratory



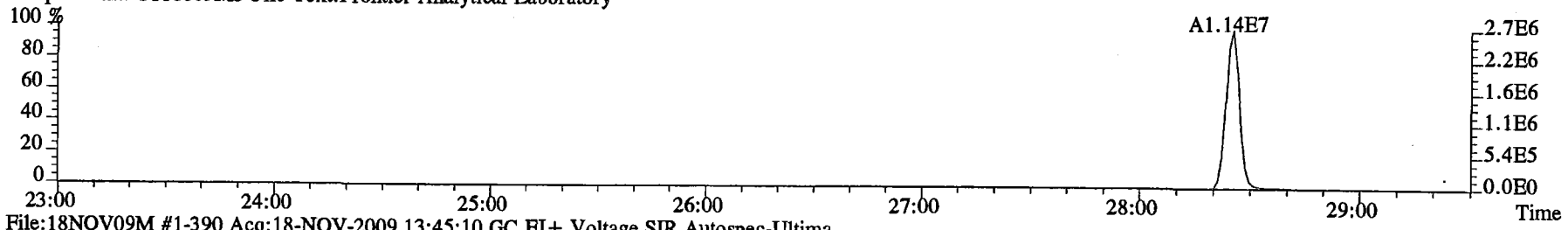
File:18NOV09M #1-390 Acq:18-NOV-2009 13:45:10 GC EI+ Voltage SIR Autospec-Ultima
317.9389 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M3 File Text:Frontier Analytical Laboratory



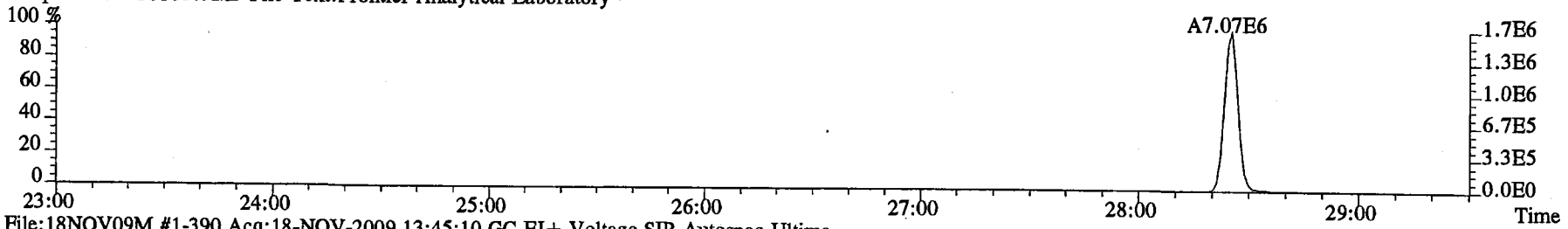
File:18NOV09M #1-390 Acq:18-NOV-2009 13:45:10 GC EI+ Voltage SIR Autospec-Ultima
375.8364 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M3 File Text:Frontier Analytical Laboratory



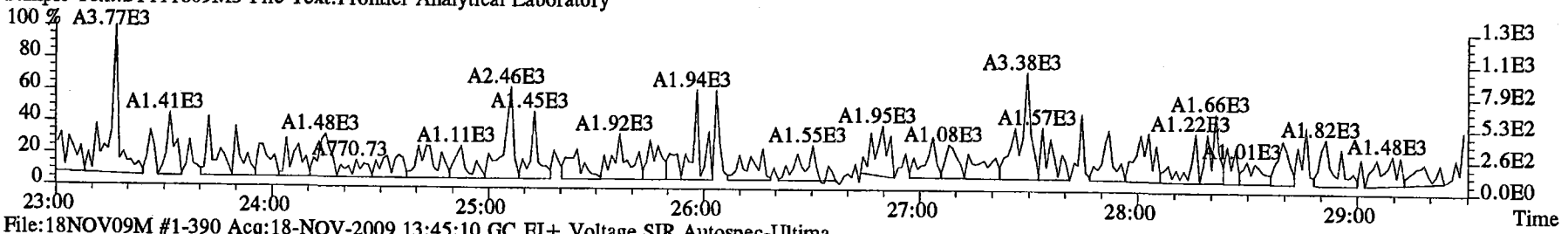
File:18NOV09M #1-390 Acq:18-NOV-2009 13:45:10 GC EI+ Voltage SIR Autospec-Ultima
339.8597 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M3 File Text:Frontier Analytical Laboratory



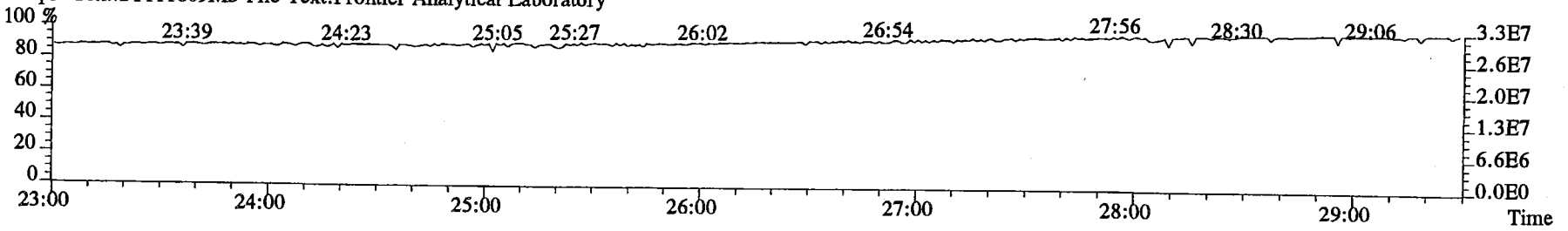
File:18NOV09M #1-390 Acq:18-NOV-2009 13:45:10 GC EI+ Voltage SIR Autospec-Ultima
341.8568 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M3 File Text:Frontier Analytical Laboratory



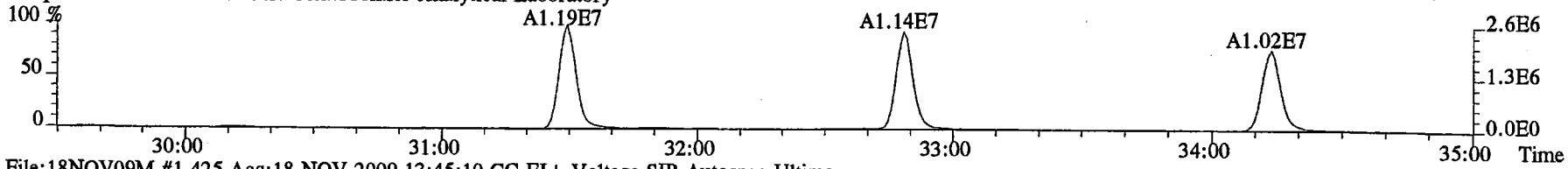
File:18NOV09M #1-390 Acq:18-NOV-2009 13:45:10 GC EI+ Voltage SIR Autospec-Ultima
409.7974 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M3 File Text:Frontier Analytical Laboratory



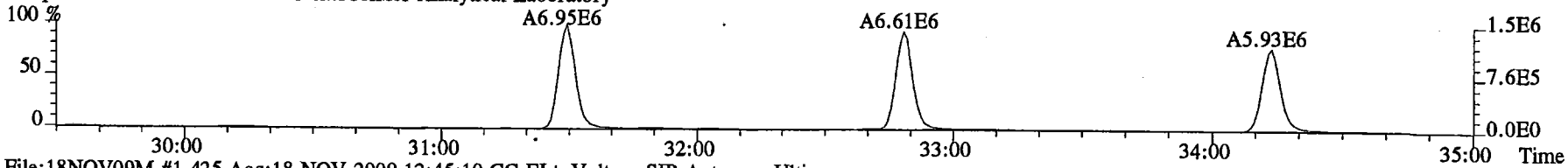
File:18NOV09M #1-390 Acq:18-NOV-2009 13:45:10 GC EI+ Voltage SIR Autospec-Ultima
330.9792 Exp:PCDD
Sample Text:ST111809M3 File Text:Frontier Analytical Laboratory



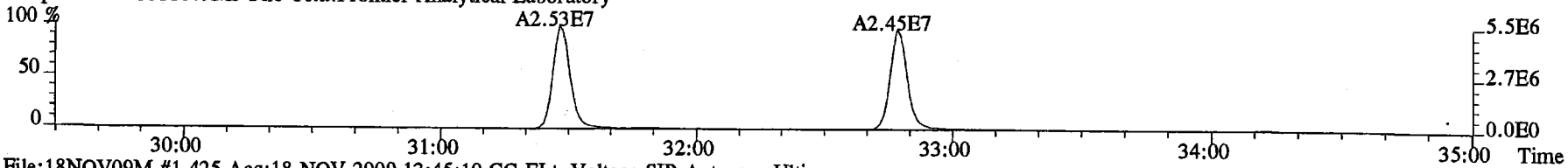
File:18NOV09M #1-425 Acq:18-NOV-2009 13:45:10 GC EI+ Voltage SIR Autospec-Ultima
339.8597 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M3 File Text:Frontier Analytical Laboratory



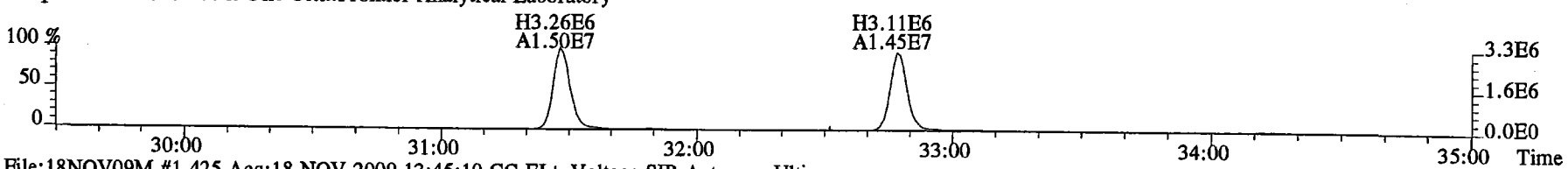
File:18NOV09M #1-425 Acq:18-NOV-2009 13:45:10 GC EI+ Voltage SIR Autospec-Ultima
341.8568 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M3 File Text:Frontier Analytical Laboratory



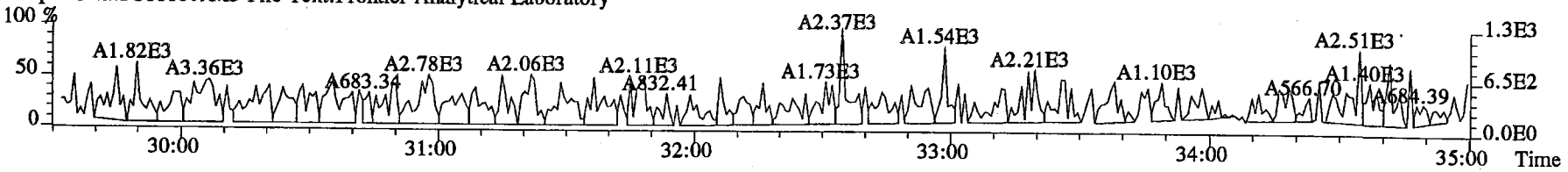
File:18NOV09M #1-425 Acq:18-NOV-2009 13:45:10 GC EI+ Voltage SIR Autospec-Ultima
351.9000 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M3 File Text:Frontier Analytical Laboratory



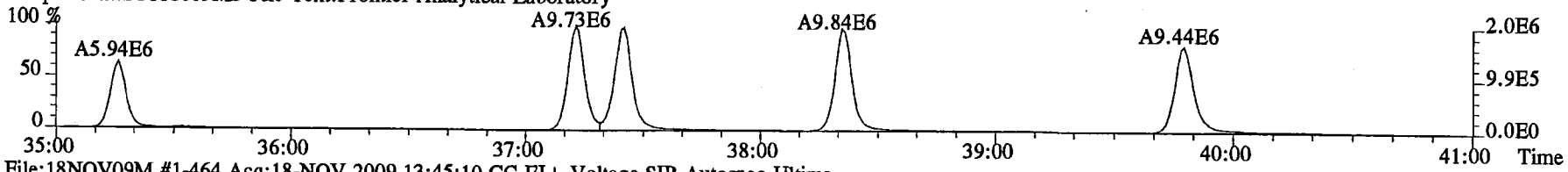
File:18NOV09M #1-425 Acq:18-NOV-2009 13:45:10 GC EI+ Voltage SIR Autospec-Ultima
353.8970 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M3 File Text:Frontier Analytical Laboratory



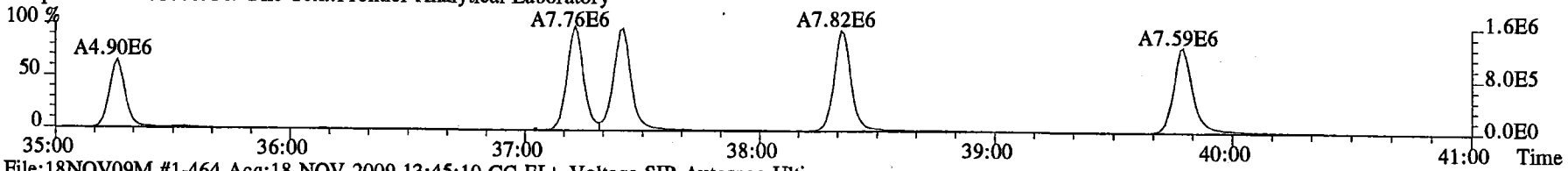
File:18NOV09M #1-425 Acq:18-NOV-2009 13:45:10 GC EI+ Voltage SIR Autospec-Ultima
409.7974 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M3 File Text:Frontier Analytical Laboratory



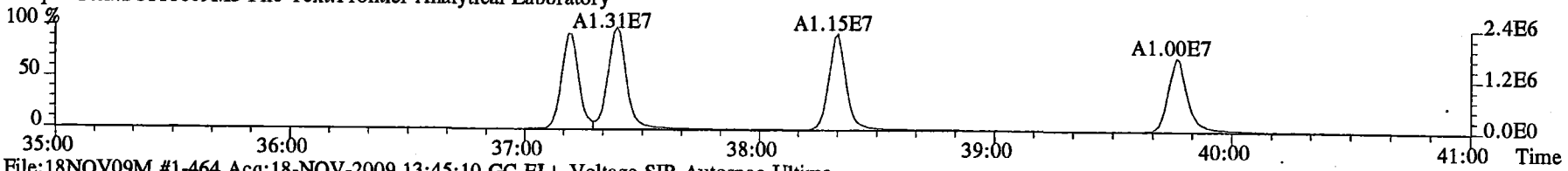
File:18NOV09M #1-464 Acq:18-NOV-2009 13:45:10 GC EI+ Voltage SIR Autospec-Ultima
373.8207 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M3 File Text:Frontier Analytical Laboratory



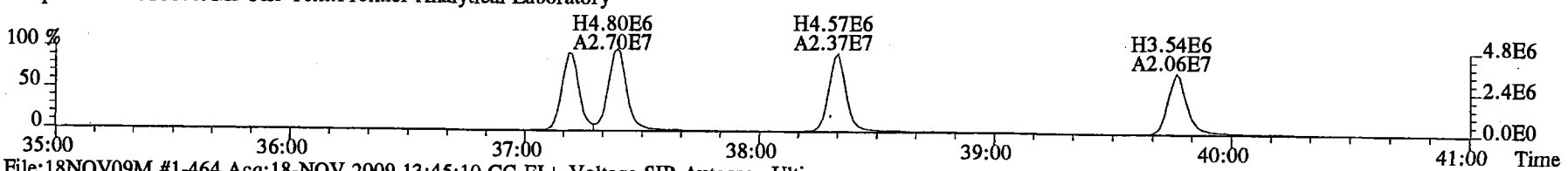
File:18NOV09M #1-464 Acq:18-NOV-2009 13:45:10 GC EI+ Voltage SIR Autospec-Ultima
375.8178 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M3 File Text:Frontier Analytical Laboratory



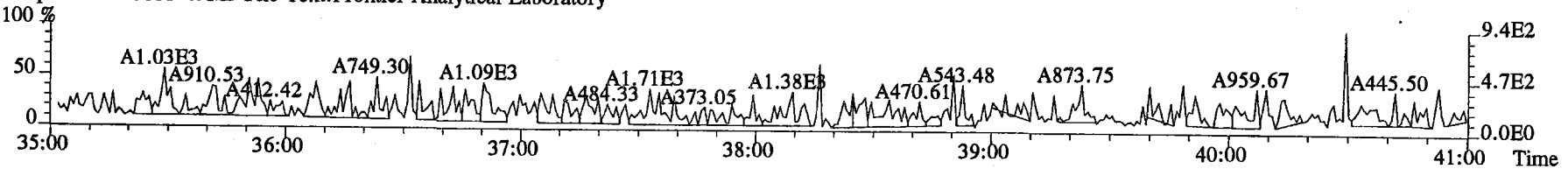
File:18NOV09M #1-464 Acq:18-NOV-2009 13:45:10 GC EI+ Voltage SIR Autospec-Ultima
383.8639 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M3 File Text:Frontier Analytical Laboratory



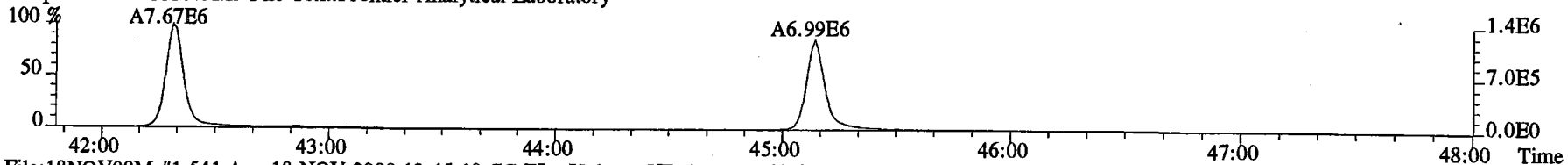
File:18NOV09M #1-464 Acq:18-NOV-2009 13:45:10 GC EI+ Voltage SIR Autospec-Ultima
385.8610 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M3 File Text:Frontier Analytical Laboratory



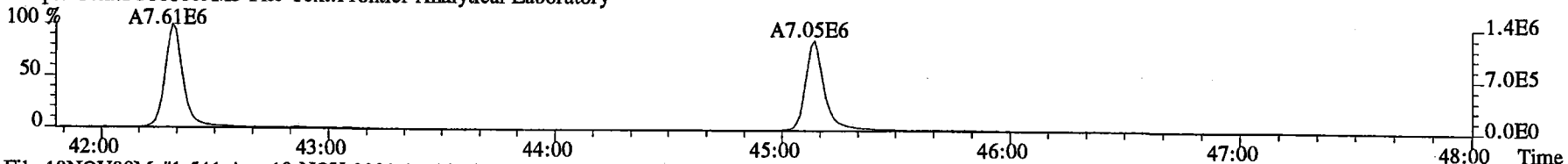
File:18NOV09M #1-464 Acq:18-NOV-2009 13:45:10 GC EI+ Voltage SIR Autospec-Ultima
445.7555 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M3 File Text:Frontier Analytical Laboratory



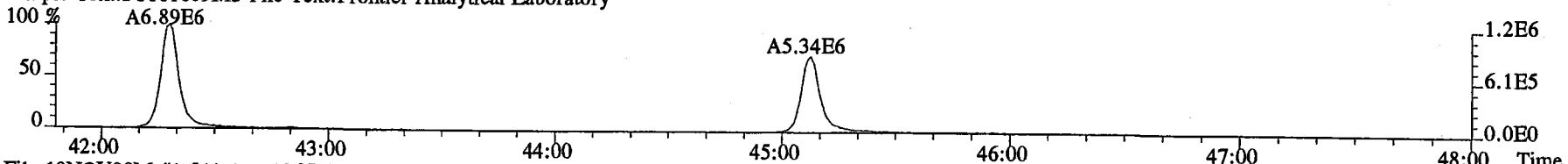
File:18NOV09M #1-541 Acq:18-NOV-2009 13:45:10 GC EI+ Voltage SIR Autospec-Ultima
407.7818 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M3 File Text:Frontier Analytical Laboratory



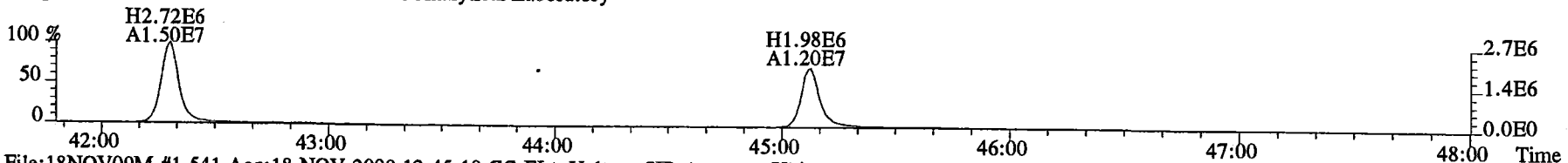
File:18NOV09M #1-541 Acq:18-NOV-2009 13:45:10 GC EI+ Voltage SIR Autospec-Ultima
409.7788 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M3 File Text:Frontier Analytical Laboratory



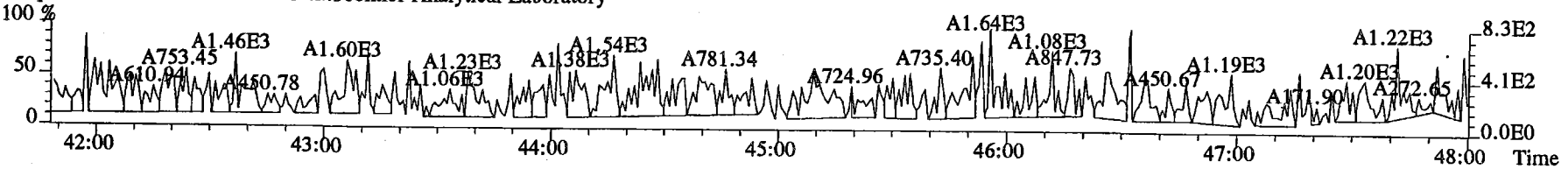
File:18NOV09M #1-541 Acq:18-NOV-2009 13:45:10 GC EI+ Voltage SIR Autospec-Ultima
417.8253 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M3 File Text:Frontier Analytical Laboratory



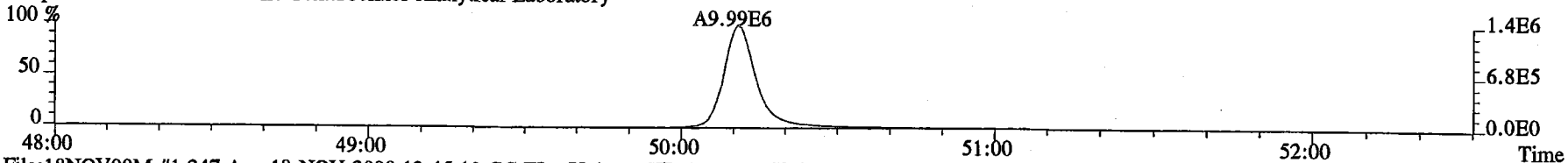
File:18NOV09M #1-541 Acq:18-NOV-2009 13:45:10 GC EI+ Voltage SIR Autospec-Ultima
419.8220 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M3 File Text:Frontier Analytical Laboratory



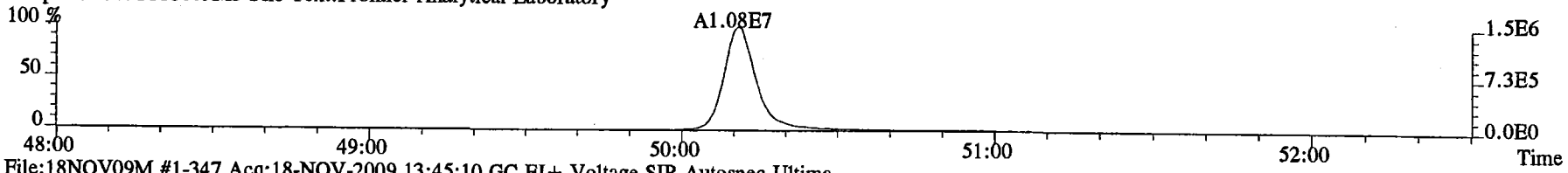
File:18NOV09M #1-541 Acq:18-NOV-2009 13:45:10 GC EI+ Voltage SIR Autospec-Ultima
479.7165 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M3 File Text:Frontier Analytical Laboratory



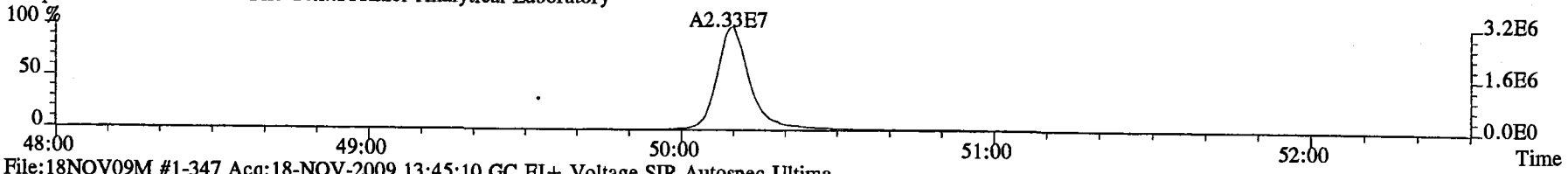
File:18NOV09M #1-347 Acq:18-NOV-2009 13:45:10 GC EI+ Voltage SIR Autospec-Ultima
441.7428 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M3 File Text:Frontier Analytical Laboratory



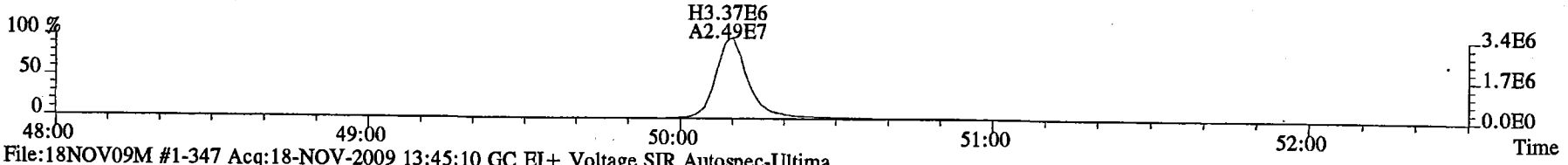
File:18NOV09M #1-347 Acq:18-NOV-2009 13:45:10 GC EI+ Voltage SIR Autospec-Ultima
443.7398 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M3 File Text:Frontier Analytical Laboratory



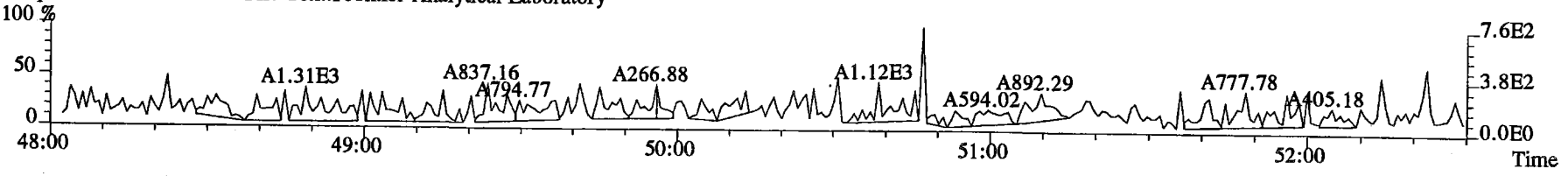
File:18NOV09M #1-347 Acq:18-NOV-2009 13:45:10 GC EI+ Voltage SIR Autospec-Ultima
453.7831 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M3 File Text:Frontier Analytical Laboratory



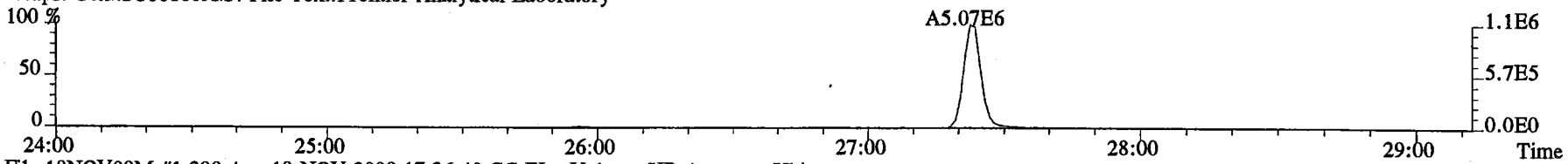
File:18NOV09M #1-347 Acq:18-NOV-2009 13:45:10 GC EI+ Voltage SIR Autospec-Ultima
455.7801 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M3 File Text:Frontier Analytical Laboratory



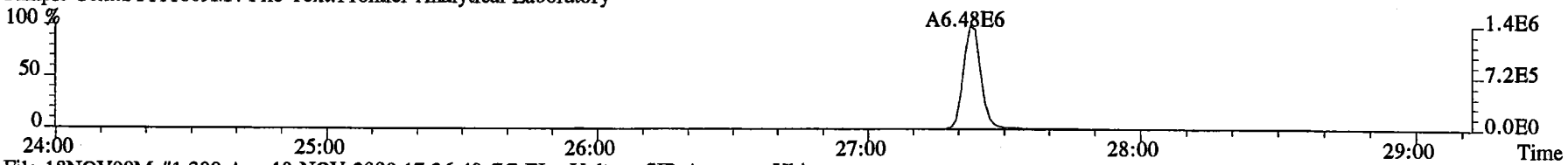
File:18NOV09M #1-347 Acq:18-NOV-2009 13:45:10 GC EI+ Voltage SIR Autospec-Ultima
513.6775 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M3 File Text:Frontier Analytical Laboratory



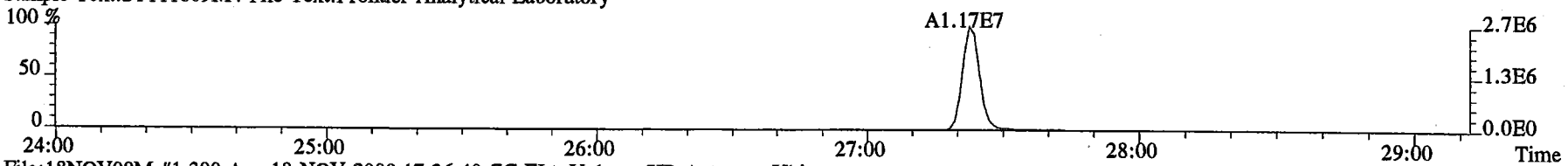
File:18NOV09M #1-390 Acq:18-NOV-2009 17:26:40 GC EI+ Voltage SIR Autospec-Ultima
319.8965 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M4 File Text:Frontier Analytical Laboratory



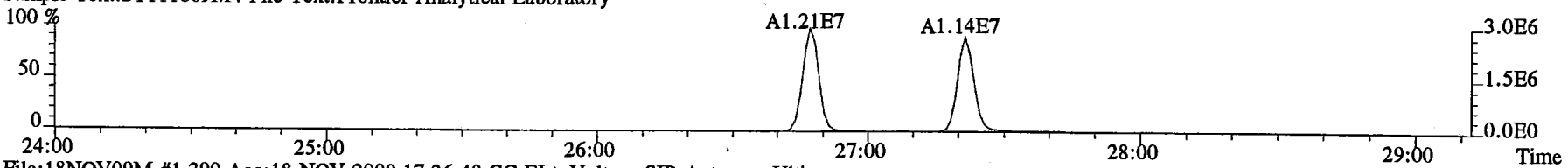
File:18NOV09M #1-390 Acq:18-NOV-2009 17:26:40 GC EI+ Voltage SIR Autospec-Ultima
321.8936 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M4 File Text:Frontier Analytical Laboratory



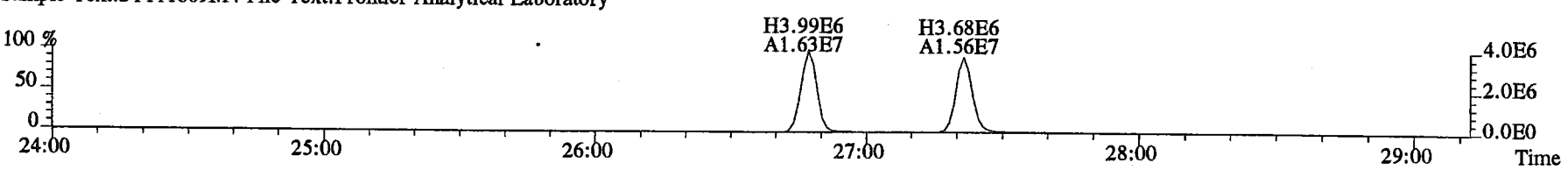
File:18NOV09M #1-390 Acq:18-NOV-2009 17:26:40 GC EI+ Voltage SIR Autospec-Ultima
327.8847 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M4 File Text:Frontier Analytical Laboratory



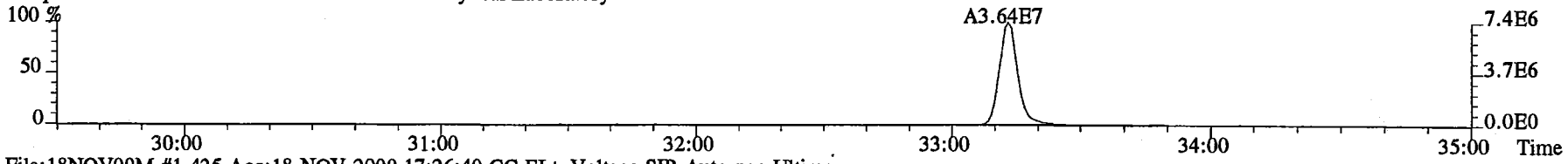
File:18NOV09M #1-390 Acq:18-NOV-2009 17:26:40 GC EI+ Voltage SIR Autospec-Ultima
331.9368 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M4 File Text:Frontier Analytical Laboratory



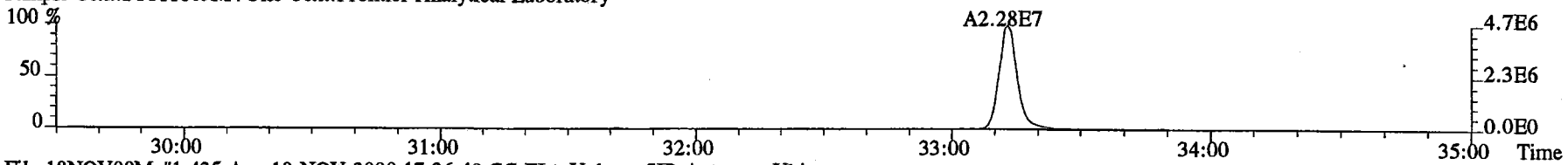
File:18NOV09M #1-390 Acq:18-NOV-2009 17:26:40 GC EI+ Voltage SIR Autospec-Ultima
333.9339 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M4 File Text:Frontier Analytical Laboratory



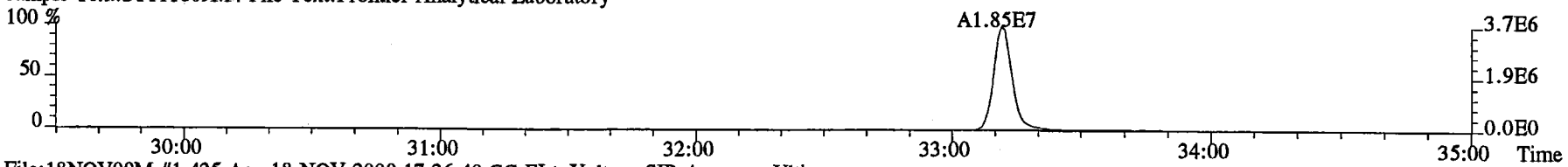
File:18NOV09M #1-425 Acq:18-NOV-2009 17:26:40 GC EI+ Voltage SIR Autospec-Ultima
355.8546 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M4 File Text:Frontier Analytical Laboratory



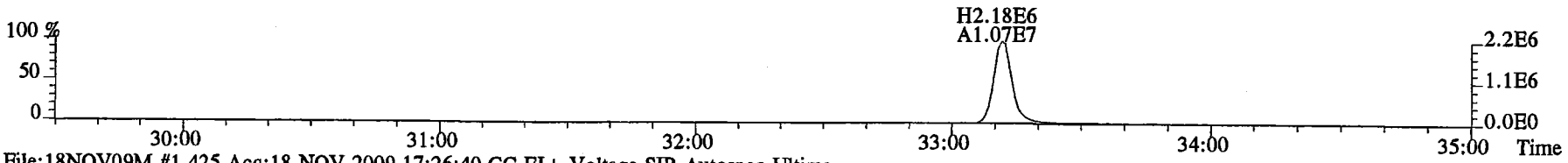
File:18NOV09M #1-425 Acq:18-NOV-2009 17:26:40 GC EI+ Voltage SIR Autospec-Ultima
357.8517 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M4 File Text:Frontier Analytical Laboratory



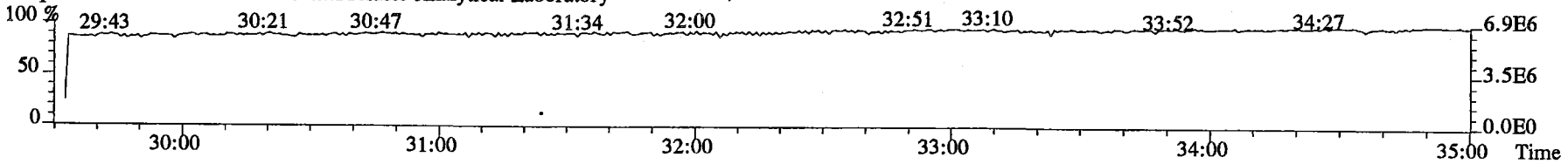
File:18NOV09M #1-425 Acq:18-NOV-2009 17:26:40 GC EI+ Voltage SIR Autospec-Ultima
367.8949 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M4 File Text:Frontier Analytical Laboratory



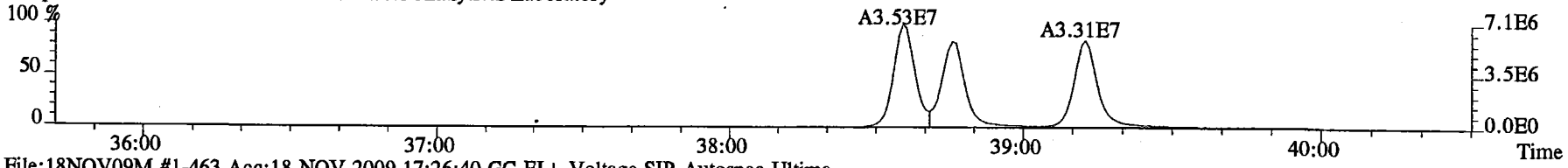
File:18NOV09M #1-425 Acq:18-NOV-2009 17:26:40 GC EI+ Voltage SIR Autospec-Ultima
369.8919 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M4 File Text:Frontier Analytical Laboratory



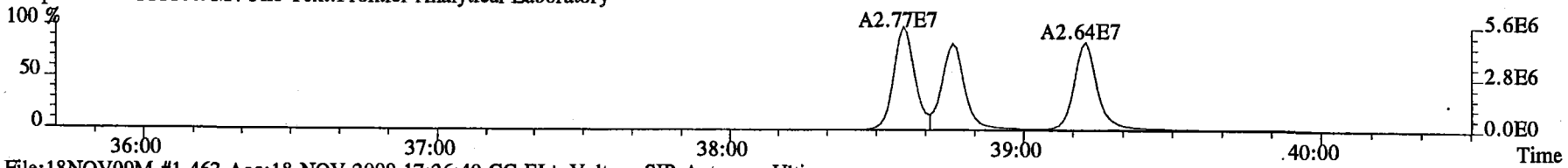
File:18NOV09M #1-425 Acq:18-NOV-2009 17:26:40 GC EI+ Voltage SIR Autospec-Ultima
366.9792 S:5 F:2 Exp:PCDD
Sample Text:ST111809M4 File Text:Frontier Analytical Laboratory



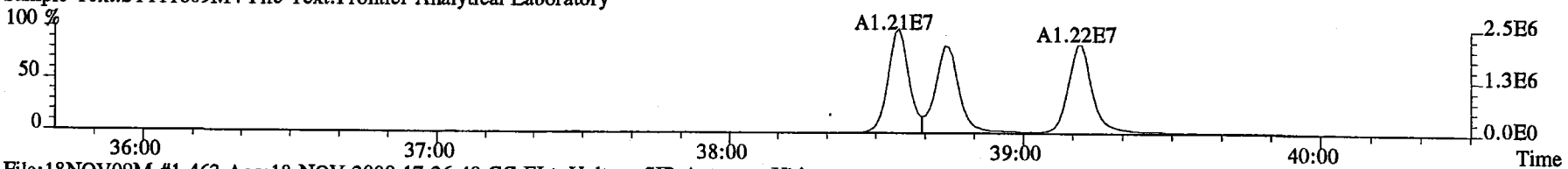
File:18NOV09M #1-463 Acq:18-NOV-2009 17:26:40 GC EI+ Voltage SIR Autospec-Ultima
389.8156 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M4 File Text:Frontier Analytical Laboratory



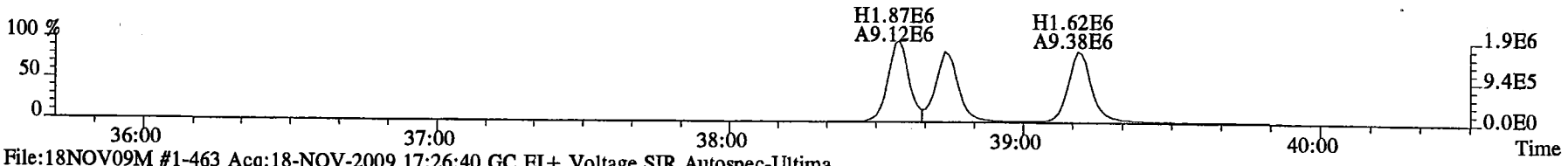
File:18NOV09M #1-463 Acq:18-NOV-2009 17:26:40 GC EI+ Voltage SIR Autospec-Ultima
391.8127 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M4 File Text:Frontier Analytical Laboratory



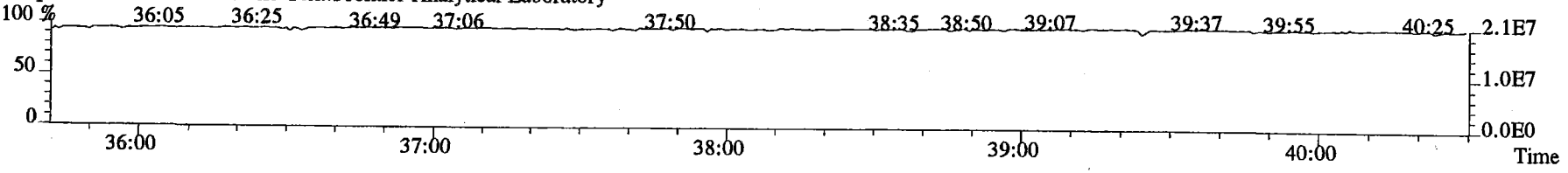
File:18NOV09M #1-463 Acq:18-NOV-2009 17:26:40 GC EI+ Voltage SIR Autospec-Ultima
401.8559 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M4 File Text:Frontier Analytical Laboratory



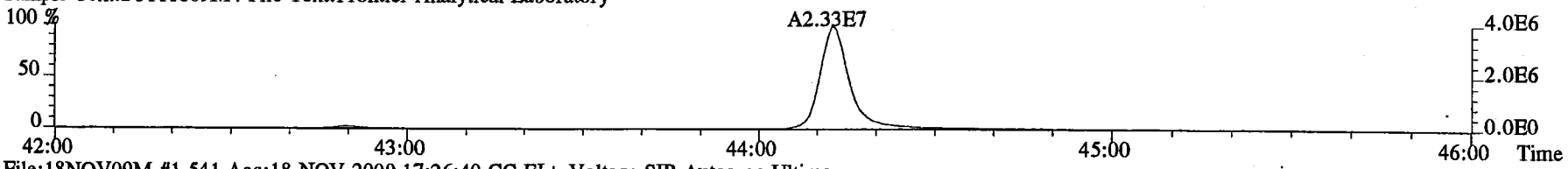
File:18NOV09M #1-463 Acq:18-NOV-2009 17:26:40 GC EI+ Voltage SIR Autospec-Ultima
403.8530 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M4 File Text:Frontier Analytical Laboratory



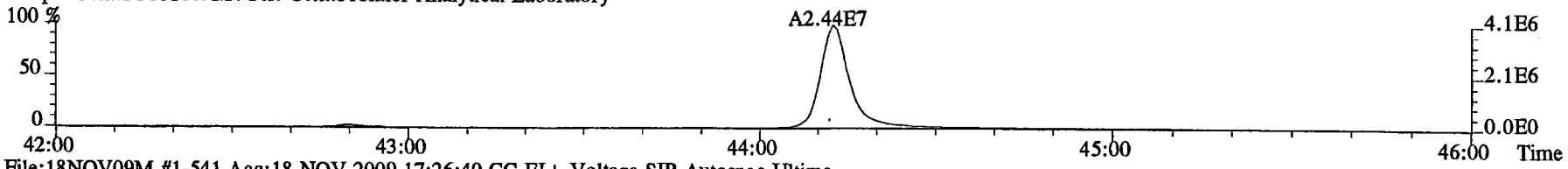
File:18NOV09M #1-463 Acq:18-NOV-2009 17:26:40 GC EI+ Voltage SIR Autospec-Ultima
380.9760 S:5 F:3 Exp:PCDD
Sample Text:ST111809M4 File Text:Frontier Analytical Laboratory



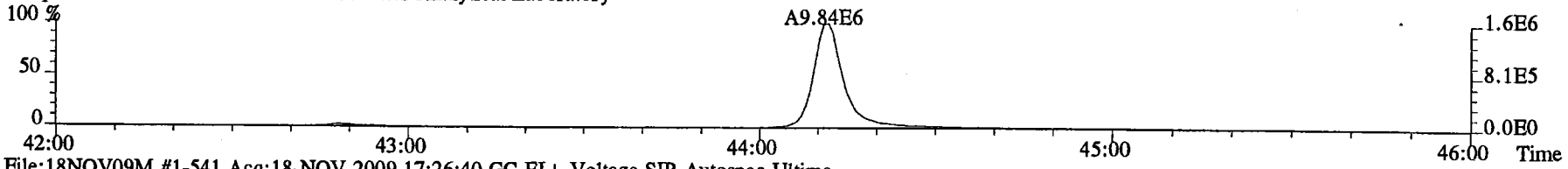
File:18NOV09M #1-541 Acq:18-NOV-2009 17:26:40 GC EI+ Voltage SIR Autospec-Ultima
423.7767 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M4 File Text:Frontier Analytical Laboratory



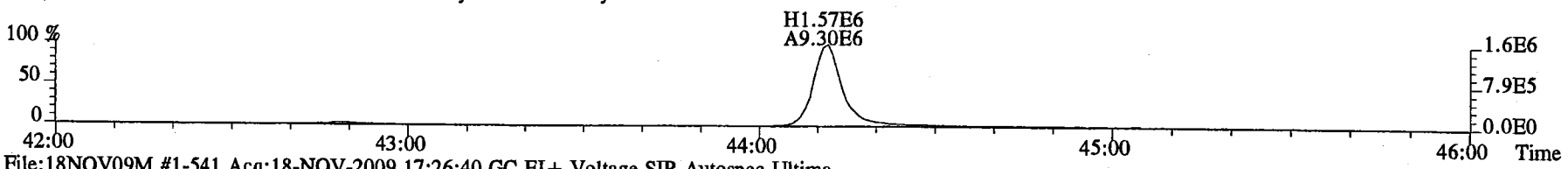
File:18NOV09M #1-541 Acq:18-NOV-2009 17:26:40 GC EI+ Voltage SIR Autospec-Ultima
425.7737 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M4 File Text:Frontier Analytical Laboratory



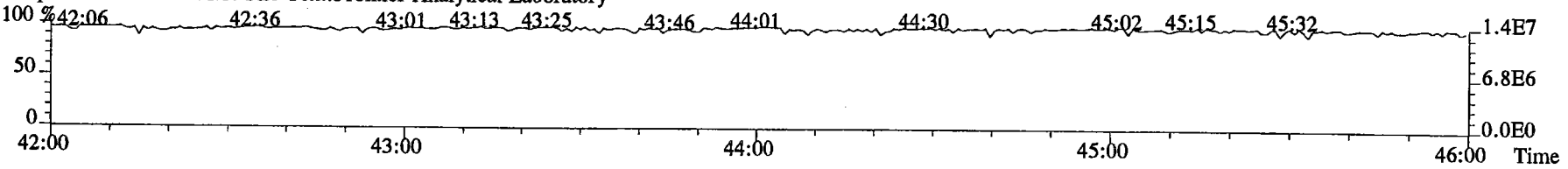
File:18NOV09M #1-541 Acq:18-NOV-2009 17:26:40 GC EI+ Voltage SIR Autospec-Ultima
435.8169 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M4 File Text:Frontier Analytical Laboratory



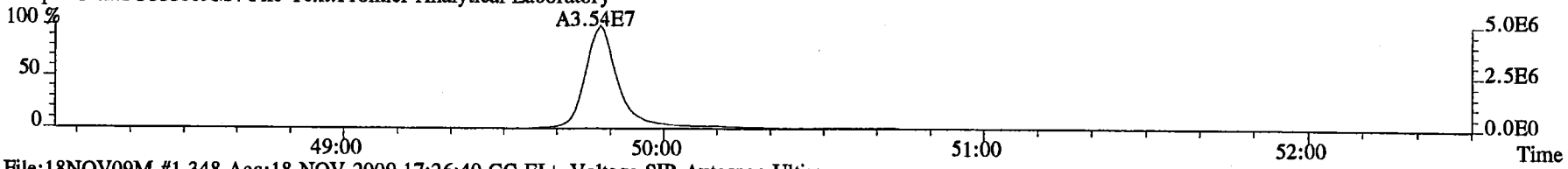
File:18NOV09M #1-541 Acq:18-NOV-2009 17:26:40 GC EI+ Voltage SIR Autospec-Ultima
437.8140 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M4 File Text:Frontier Analytical Laboratory



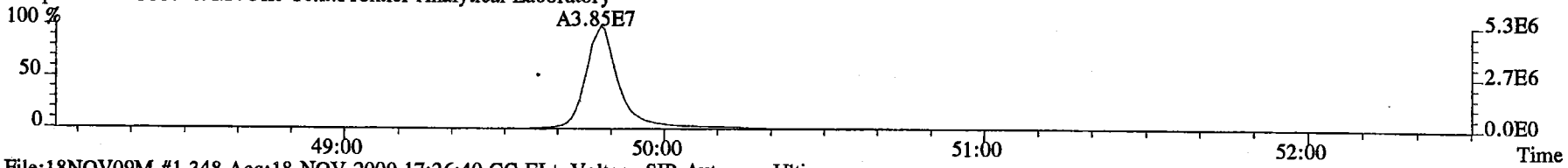
File:18NOV09M #1-541 Acq:18-NOV-2009 17:26:40 GC EI+ Voltage SIR Autospec-Ultima
430.9728 S:5 F:4 Exp:PCDD
Sample Text:ST111809M4 File Text:Frontier Analytical Laboratory



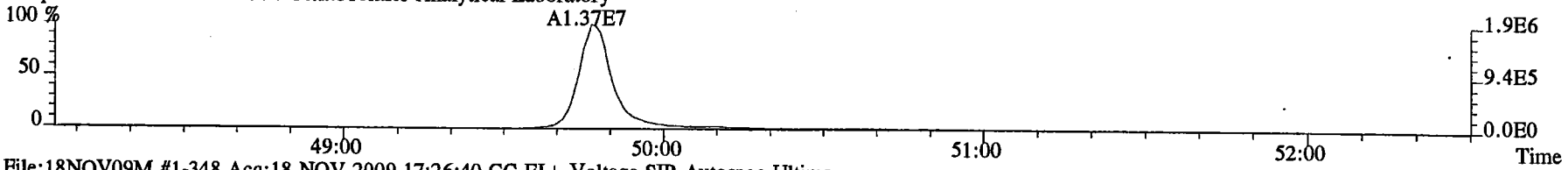
File:18NOV09M #1-348 Acq:18-NOV-2009 17:26:40 GC EI+ Voltage SIR Autospec-Ultima
457.7377 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M4 File Text:Frontier Analytical Laboratory



File:18NOV09M #1-348 Acq:18-NOV-2009 17:26:40 GC EI+ Voltage SIR Autospec-Ultima
459.7348 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M4 File Text:Frontier Analytical Laboratory



File:18NOV09M #1-348 Acq:18-NOV-2009 17:26:40 GC EI+ Voltage SIR Autospec-Ultima
469.7780 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M4 File Text:Frontier Analytical Laboratory



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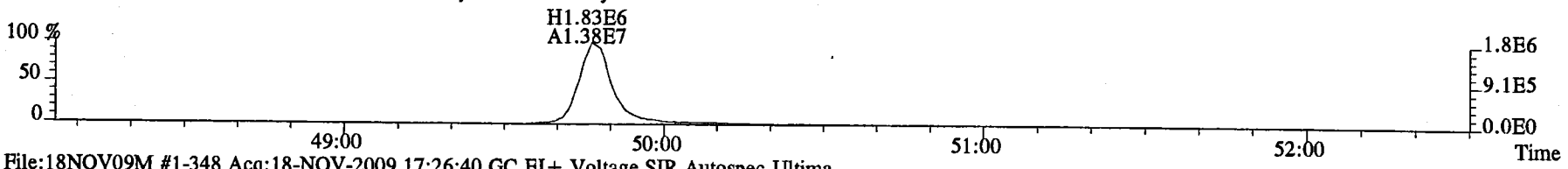
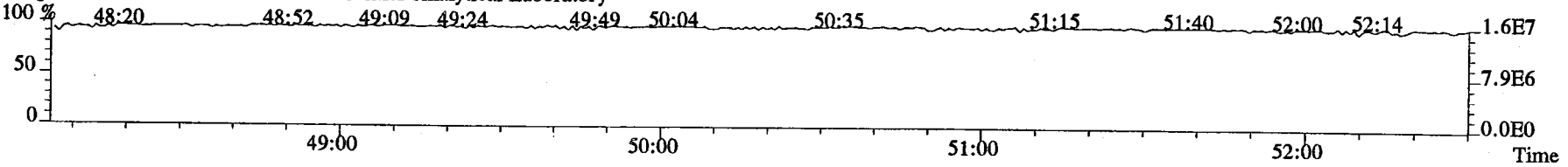
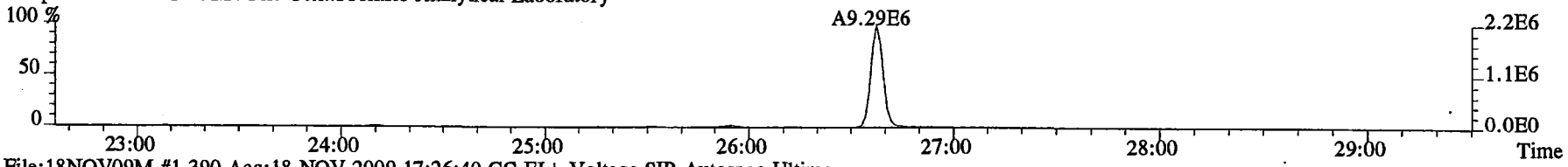
471.7750 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M4 File Text:Frontier Analytical Laboratory



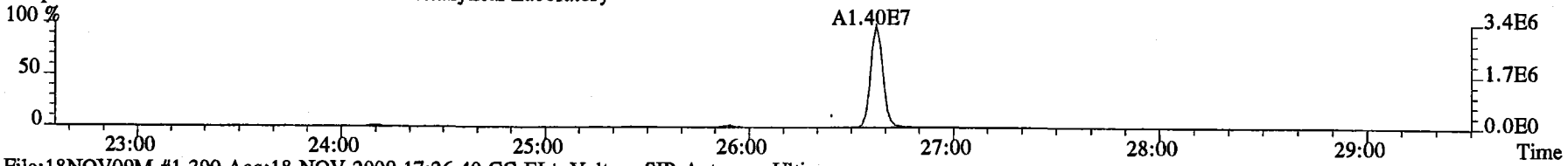
File:18NOV09M #1-348 Acq:18-NOV-2009 17:26:40 GC EI+ Voltage SIR Autospec-Ultima
454.9728 S:5 F:5 Exp:PCDD
Sample Text:ST111809M4 File Text:Frontier Analytical Laboratory



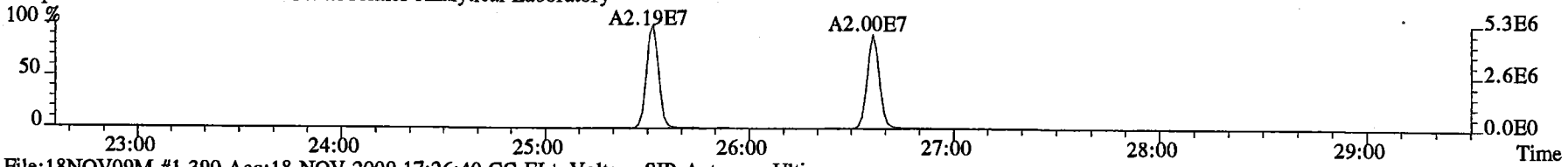
File:18NOV09M #1-390 Acq:18-NOV-2009 17:26:40 GC EI+ Voltage SIR Autospec-Ultima
303.9016 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M4 File Text:Frontier Analytical Laboratory



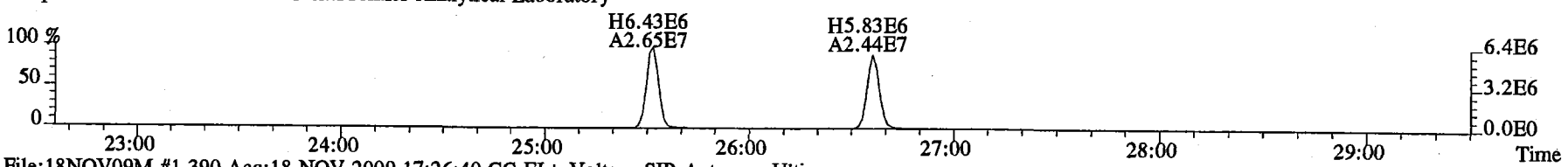
File:18NOV09M #1-390 Acq:18-NOV-2009 17:26:40 GC EI+ Voltage SIR Autospec-Ultima
305.8987 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M4 File Text:Frontier Analytical Laboratory



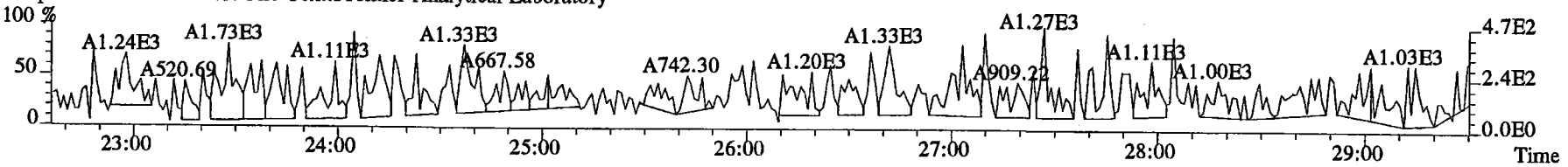
File:18NOV09M #1-390 Acq:18-NOV-2009 17:26:40 GC EI+ Voltage SIR Autospec-Ultima
315.9419 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M4 File Text:Frontier Analytical Laboratory



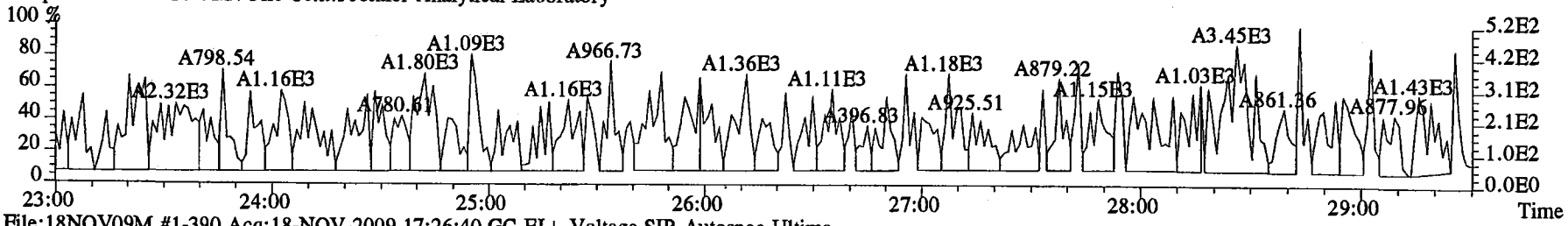
File:18NOV09M #1-390 Acq:18-NOV-2009 17:26:40 GC EI+ Voltage SIR Autospec-Ultima
317.9389 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M4 File Text:Frontier Analytical Laboratory



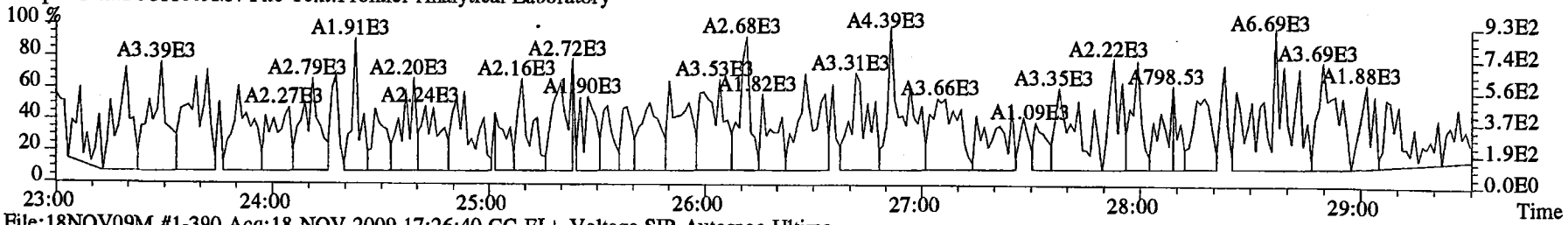
File:18NOV09M #1-390 Acq:18-NOV-2009 17:26:40 GC EI+ Voltage SIR Autospec-Ultima
375.8364 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M4 File Text:Frontier Analytical Laboratory



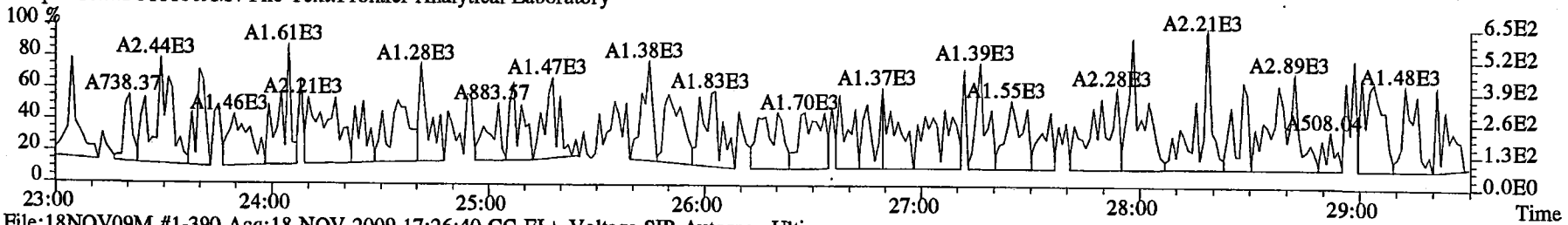
File:18NOV09M #1-390 Acq:18-NOV-2009 17:26:40 GC EI+ Voltage SIR Autospec-Ultima
339.8597 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M4 File Text:Frontier Analytical Laboratory



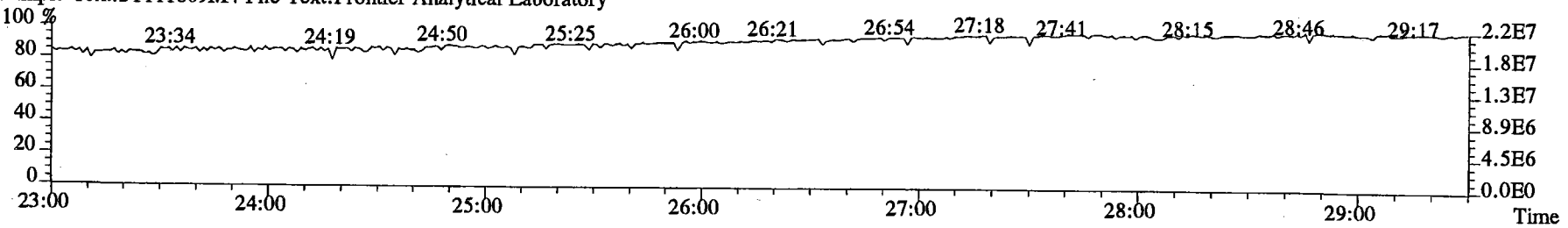
File:18NOV09M #1-390 Acq:18-NOV-2009 17:26:40 GC EI+ Voltage SIR Autospec-Ultima
341.8568 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M4 File Text:Frontier Analytical Laboratory



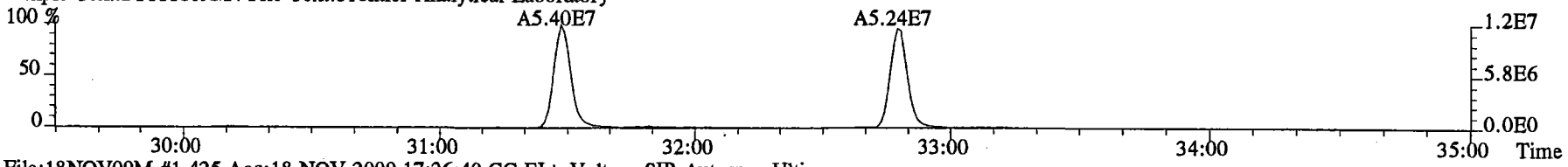
File:18NOV09M #1-390 Acq:18-NOV-2009 17:26:40 GC EI+ Voltage SIR Autospec-Ultima
409.7974 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M4 File Text:Frontier Analytical Laboratory



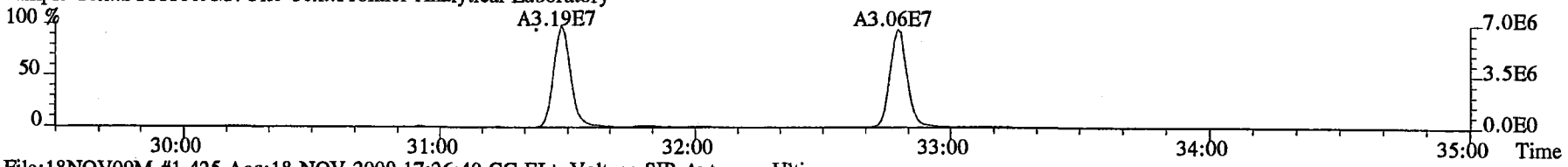
File:18NOV09M #1-390 Acq:18-NOV-2009 17:26:40 GC EI+ Voltage SIR Autospec-Ultima
330.9792 S:5 Exp:PCDD
Sample Text:ST111809M4 File Text:Frontier Analytical Laboratory



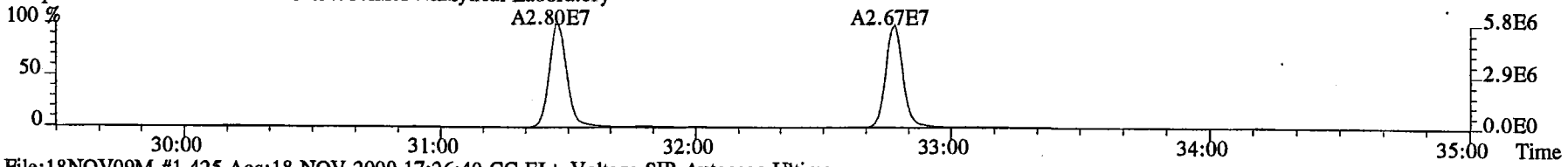
File:18NOV09M #1-425 Acq:18-NOV-2009 17:26:40 GC EI+ Voltage SIR Autospec-Ultima
339.8597 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M4 File Text:Frontier Analytical Laboratory



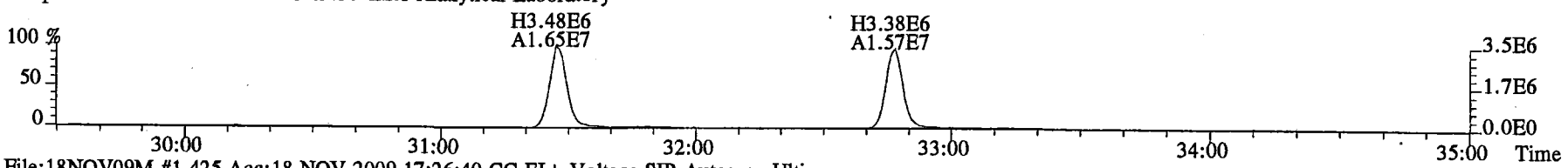
File:18NOV09M #1-425 Acq:18-NOV-2009 17:26:40 GC EI+ Voltage SIR Autospec-Ultima
341.8568 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M4 File Text:Frontier Analytical Laboratory



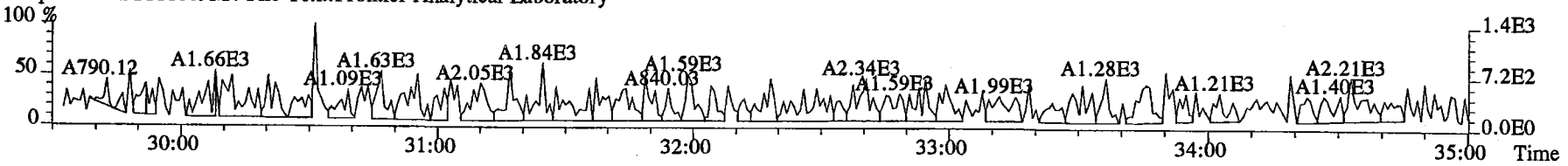
File:18NOV09M #1-425 Acq:18-NOV-2009 17:26:40 GC EI+ Voltage SIR Autospec-Ultima
351.9000 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M4 File Text:Frontier Analytical Laboratory



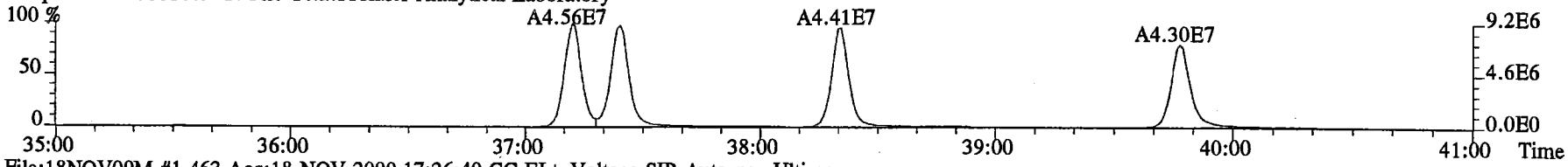
File:18NOV09M #1-425 Acq:18-NOV-2009 17:26:40 GC EI+ Voltage SIR Autospec-Ultima
353.8970 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M4 File Text:Frontier Analytical Laboratory



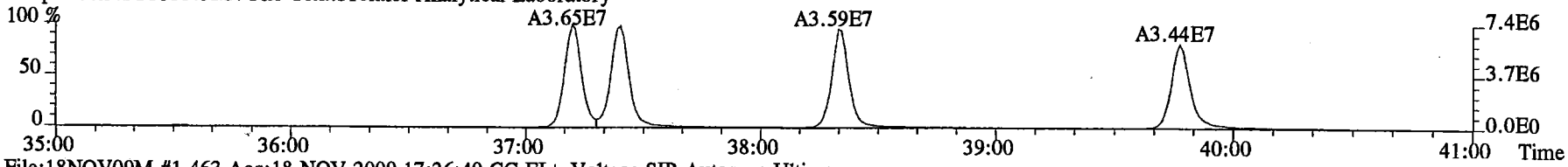
File:18NOV09M #1-425 Acq:18-NOV-2009 17:26:40 GC EI+ Voltage SIR Autospec-Ultima
409.7974 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M4 File Text:Frontier Analytical Laboratory



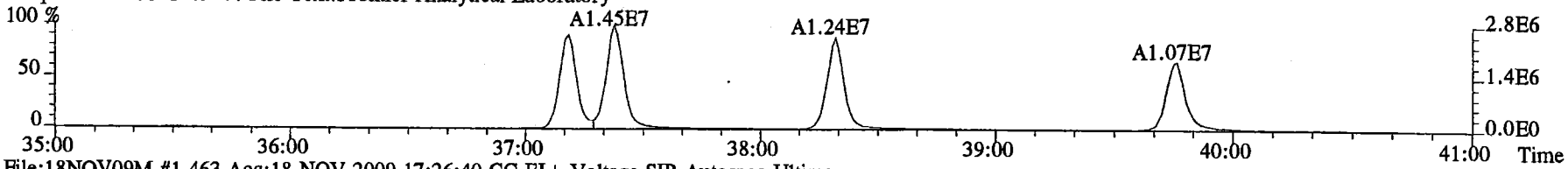
File:18NOV09M #1-463 Acq:18-NOV-2009 17:26:40 GC EI+ Voltage SIR Autospec-Ultima
373.8207 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M4 File Text:Frontier Analytical Laboratory



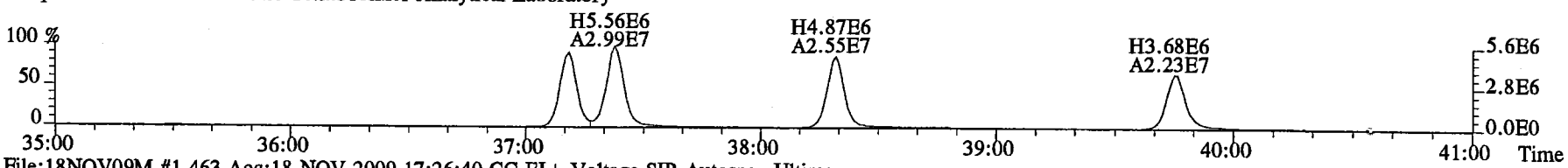
File:18NOV09M #1-463 Acq:18-NOV-2009 17:26:40 GC EI+ Voltage SIR Autospec-Ultima
375.8178 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M4 File Text:Frontier Analytical Laboratory



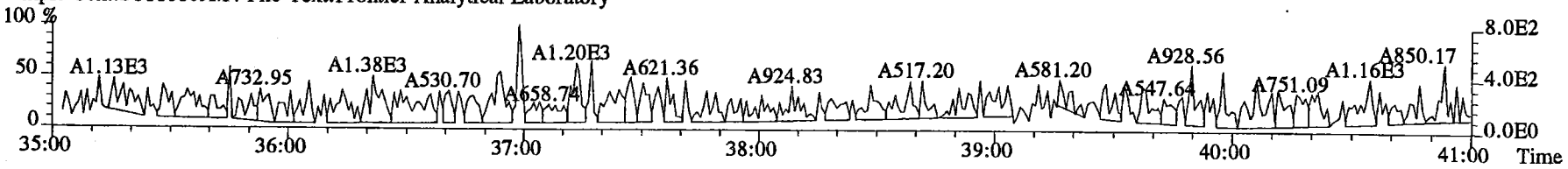
File:18NOV09M #1-463 Acq:18-NOV-2009 17:26:40 GC EI+ Voltage SIR Autospec-Ultima
383.8639 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M4 File Text:Frontier Analytical Laboratory



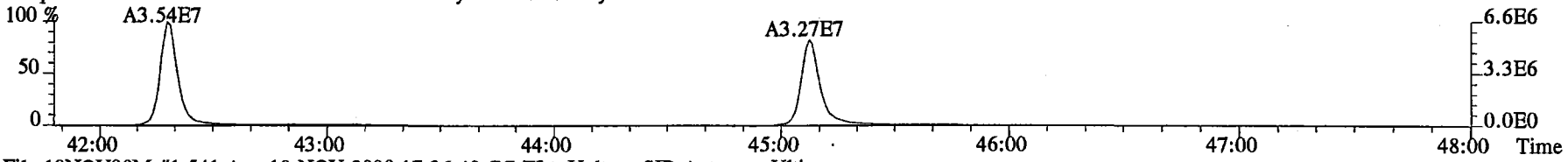
File:18NOV09M #1-463 Acq:18-NOV-2009 17:26:40 GC EI+ Voltage SIR Autospec-Ultima
385.8610 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M4 File Text:Frontier Analytical Laboratory



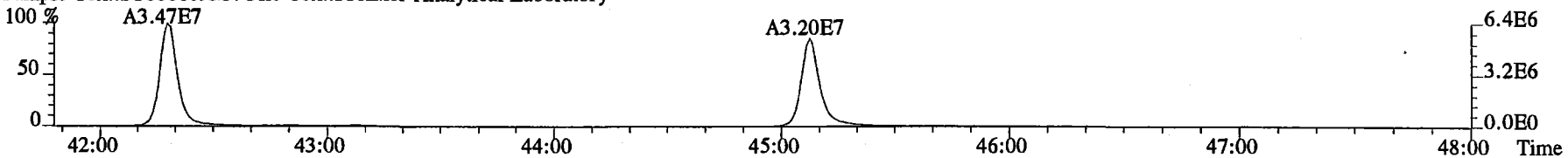
File:18NOV09M #1-463 Acq:18-NOV-2009 17:26:40 GC EI+ Voltage SIR Autospec-Ultima
445.7555 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M4 File Text:Frontier Analytical Laboratory



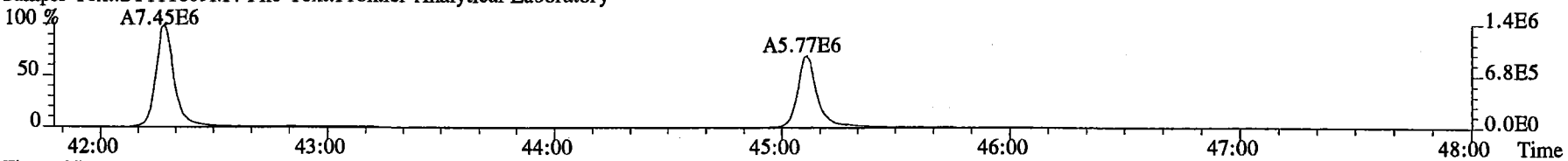
File:18NOV09M #1-541 Acq:18-NOV-2009 17:26:40 GC EI+ Voltage SIR Autospec-Ultima
407.7818 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M4 File Text:Frontier Analytical Laboratory



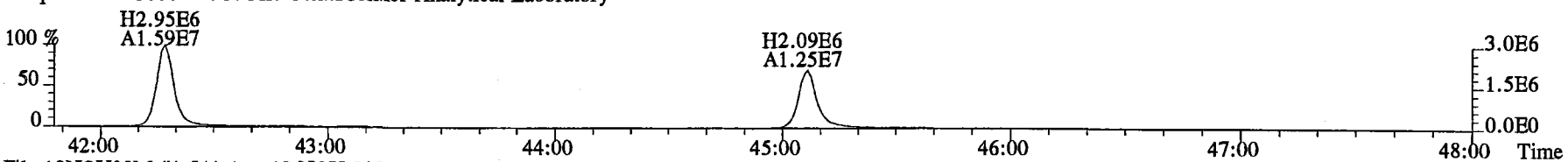
File:18NOV09M #1-541 Acq:18-NOV-2009 17:26:40 GC EI+ Voltage SIR Autospec-Ultima
409.7788 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M4 File Text:Frontier Analytical Laboratory



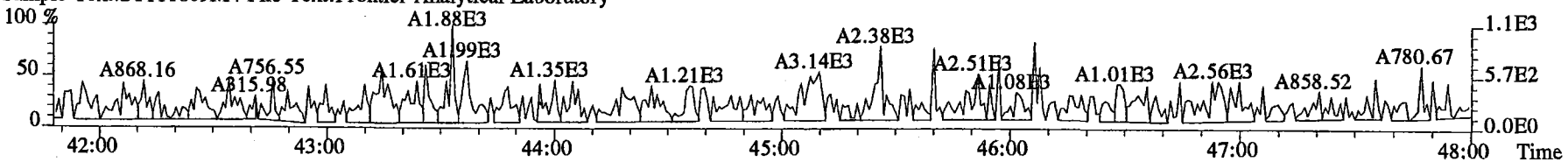
File:18NOV09M #1-541 Acq:18-NOV-2009 17:26:40 GC EI+ Voltage SIR Autospec-Ultima
417.8253 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M4 File Text:Frontier Analytical Laboratory



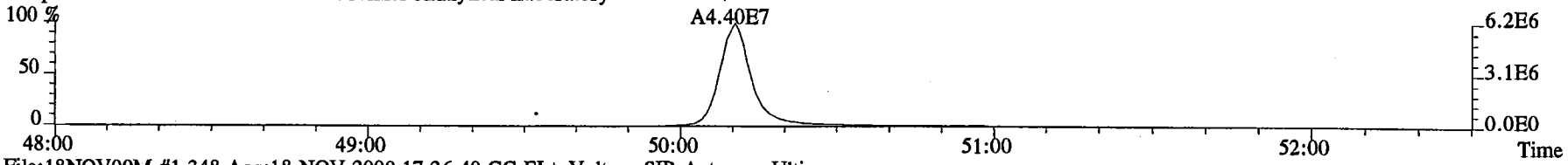
File:18NOV09M #1-541 Acq:18-NOV-2009 17:26:40 GC EI+ Voltage SIR Autospec-Ultima
419.8220 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M4 File Text:Frontier Analytical Laboratory



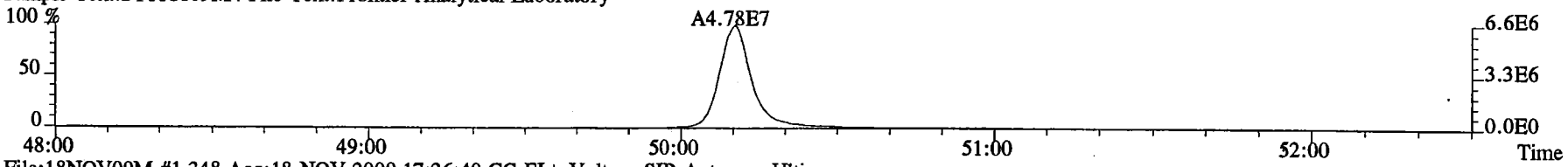
File:18NOV09M #1-541 Acq:18-NOV-2009 17:26:40 GC EI+ Voltage SIR Autospec-Ultima
479.7165 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M4 File Text:Frontier Analytical Laboratory



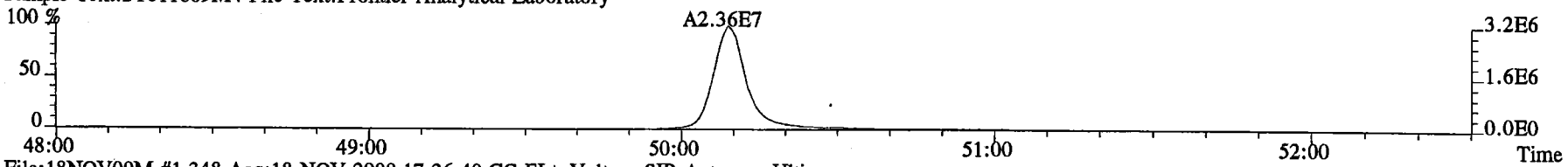
File:18NOV09M #1-348 Acq:18-NOV-2009 17:26:40 GC EI+ Voltage SIR Autospec-Ultima
441.7428 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M4 File Text:Frontier Analytical Laboratory



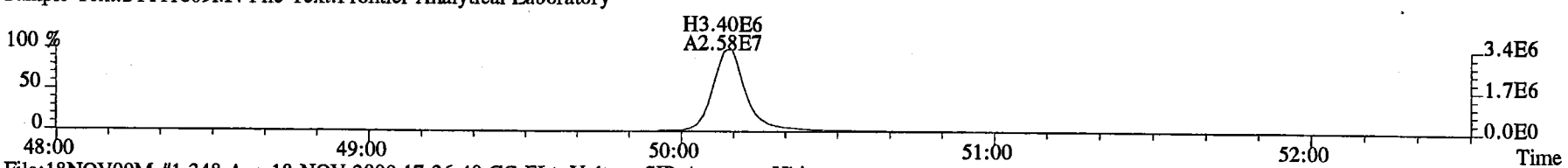
File:18NOV09M #1-348 Acq:18-NOV-2009 17:26:40 GC EI+ Voltage SIR Autospec-Ultima
443.7398 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M4 File Text:Frontier Analytical Laboratory



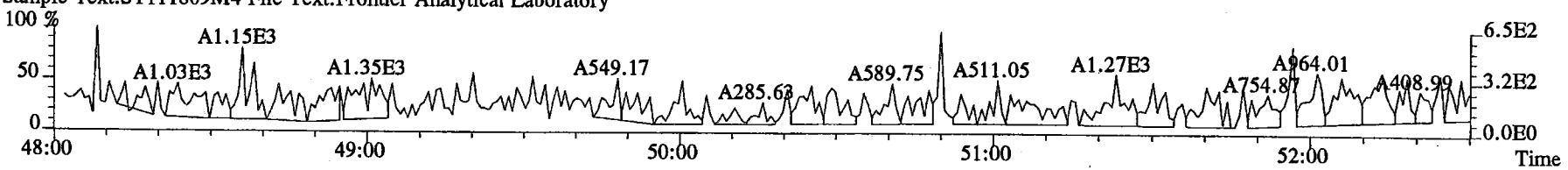
File:18NOV09M #1-348 Acq:18-NOV-2009 17:26:40 GC EI+ Voltage SIR Autospec-Ultima
453.7831 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M4 File Text:Frontier Analytical Laboratory



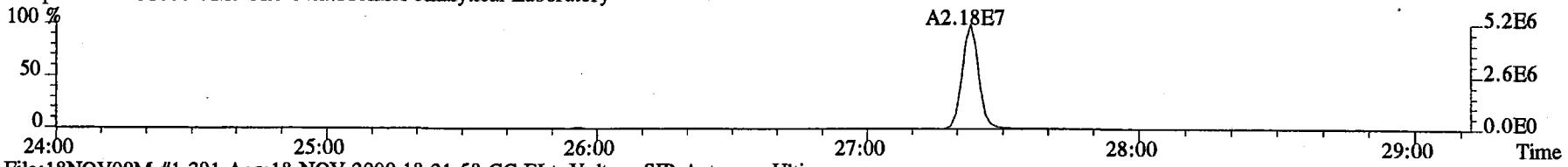
File:18NOV09M #1-348 Acq:18-NOV-2009 17:26:40 GC EI+ Voltage SIR Autospec-Ultima
455.7801 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M4 File Text:Frontier Analytical Laboratory



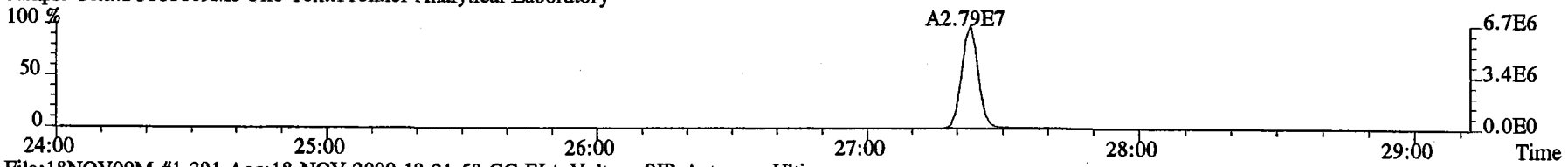
File:18NOV09M #1-348 Acq:18-NOV-2009 17:26:40 GC EI+ Voltage SIR Autospec-Ultima
513.6775 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M4 File Text:Frontier Analytical Laboratory



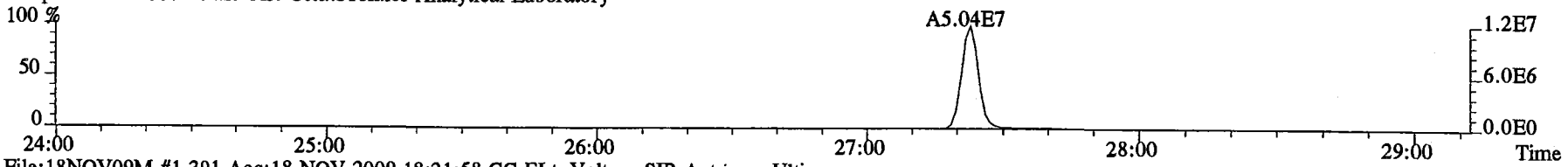
File:18NOV09M #1-391 Acq:18-NOV-2009 18:21:58 GC EI+ Voltage SIR Autospec-Ultima
319.8965 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M5 File Text:Frontier Analytical Laboratory



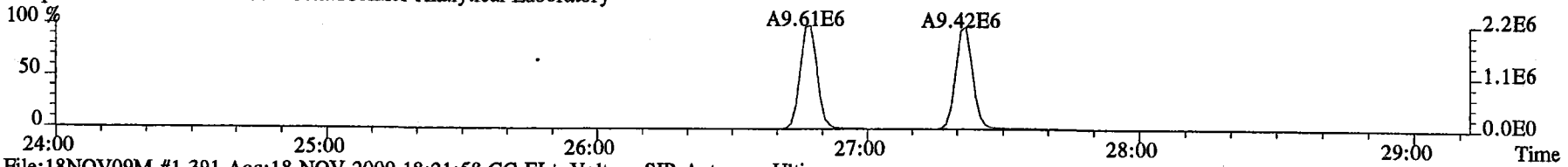
File:18NOV09M #1-391 Acq:18-NOV-2009 18:21:58 GC EI+ Voltage SIR Autospec-Ultima
321.8936 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M5 File Text:Frontier Analytical Laboratory



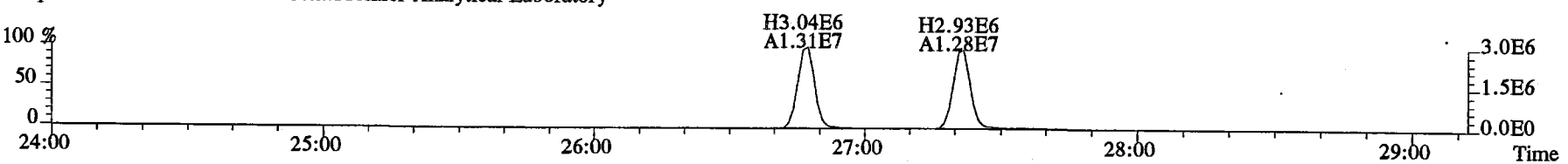
File:18NOV09M #1-391 Acq:18-NOV-2009 18:21:58 GC EI+ Voltage SIR Autospec-Ultima
327.8847 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M5 File Text:Frontier Analytical Laboratory



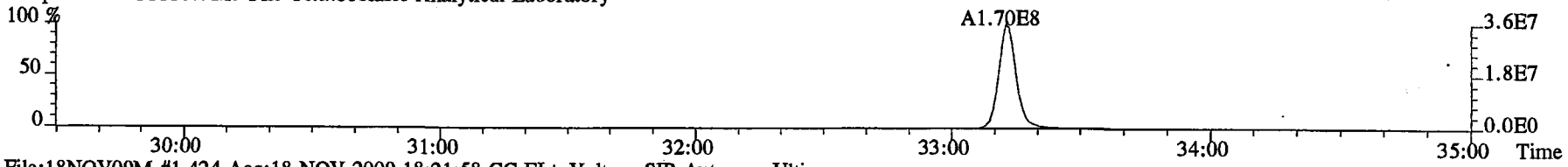
File:18NOV09M #1-391 Acq:18-NOV-2009 18:21:58 GC EI+ Voltage SIR Autospec-Ultima
331.9368 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M5 File Text:Frontier Analytical Laboratory



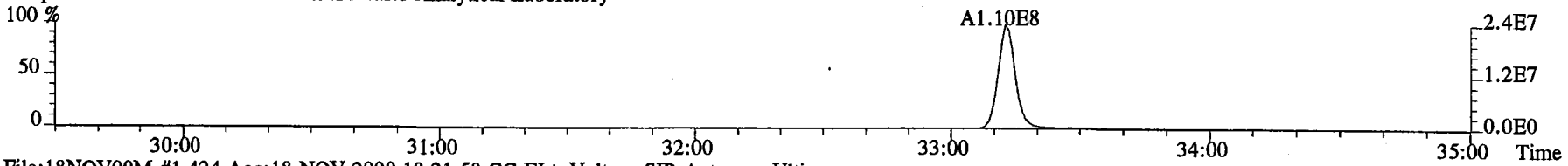
File:18NOV09M #1-391 Acq:18-NOV-2009 18:21:58 GC EI+ Voltage SIR Autospec-Ultima
333.9339 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M5 File Text:Frontier Analytical Laboratory



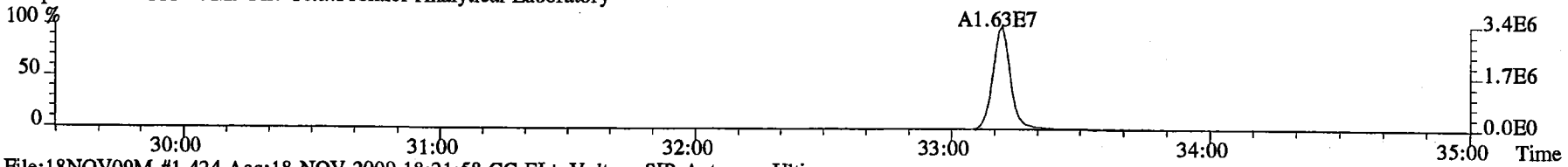
File:18NOV09M #1-424 Acq:18-NOV-2009 18:21:58 GC EI+ Voltage SIR Autospec-Ultima
355.8546 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M5 File Text:Frontier Analytical Laboratory



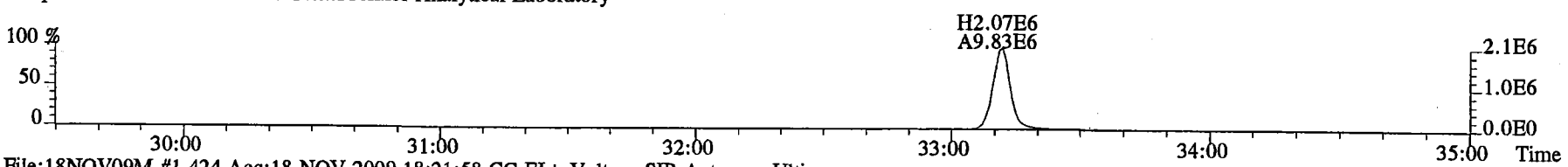
File:18NOV09M #1-424 Acq:18-NOV-2009 18:21:58 GC EI+ Voltage SIR Autospec-Ultima
357.8517 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M5 File Text:Frontier Analytical Laboratory



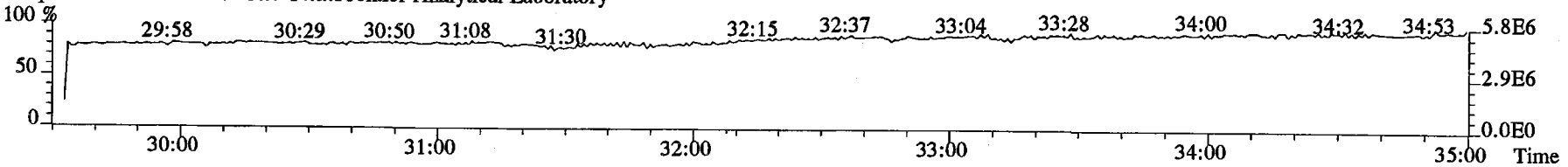
File:18NOV09M #1-424 Acq:18-NOV-2009 18:21:58 GC EI+ Voltage SIR Autospec-Ultima
367.8949 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M5 File Text:Frontier Analytical Laboratory



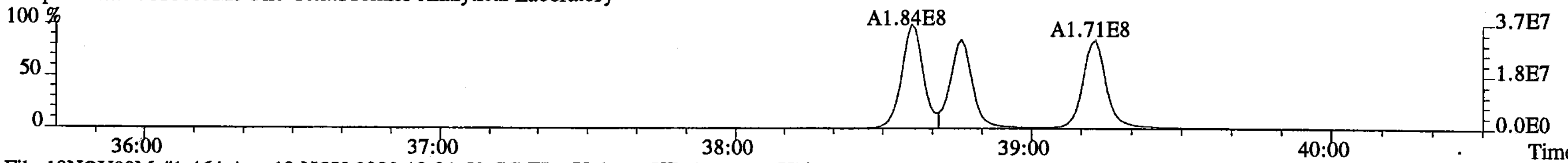
File:18NOV09M #1-424 Acq:18-NOV-2009 18:21:58 GC EI+ Voltage SIR Autospec-Ultima
369.8919 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M5 File Text:Frontier Analytical Laboratory



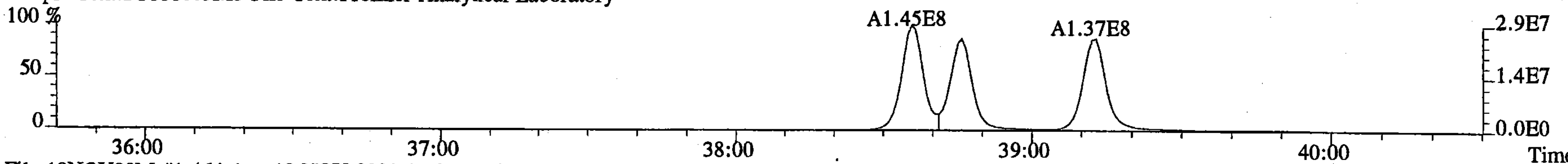
File:18NOV09M #1-424 Acq:18-NOV-2009 18:21:58 GC EI+ Voltage SIR Autospec-Ultima
366.9792 S:6 F:2 Exp:PCDD
Sample Text:ST111809M5 File Text:Frontier Analytical Laboratory



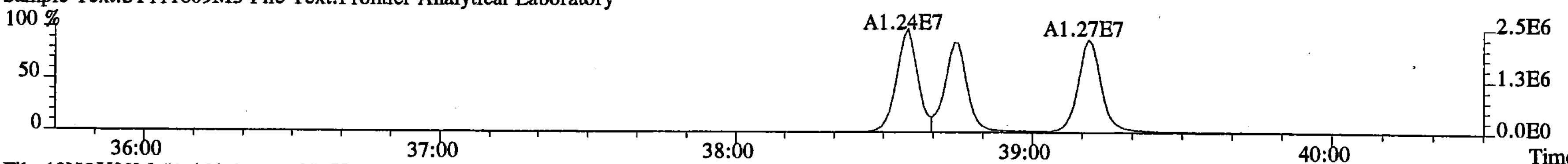
File:18NOV09M #1-464 Acq:18-NOV-2009 18:21:58 GC EI+ Voltage SIR Autospec-Ultima
389.8156 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M5 File Text:Frontier Analytical Laboratory



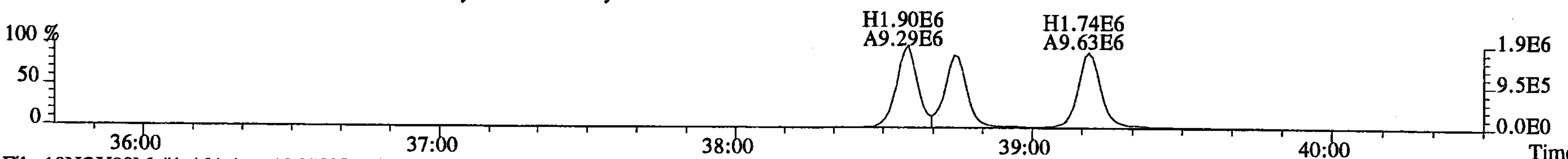
File:18NOV09M #1-464 Acq:18-NOV-2009 18:21:58 GC EI+ Voltage SIR Autospec-Ultima
391.8127 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M5 File Text:Frontier Analytical Laboratory



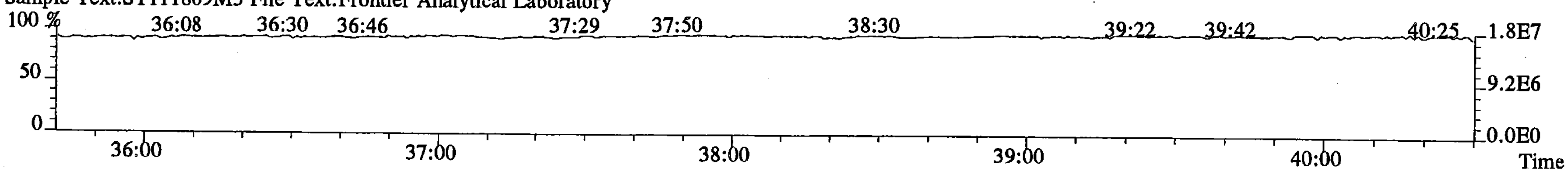
File:18NOV09M #1-464 Acq:18-NOV-2009 18:21:58 GC EI+ Voltage SIR Autospec-Ultima
401.8559 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M5 File Text:Frontier Analytical Laboratory



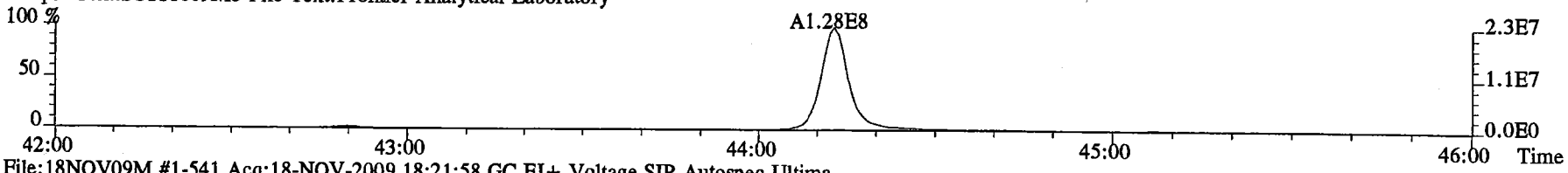
File:18NOV09M #1-464 Acq:18-NOV-2009 18:21:58 GC EI+ Voltage SIR Autospec-Ultima
403.8530 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M5 File Text:Frontier Analytical Laboratory



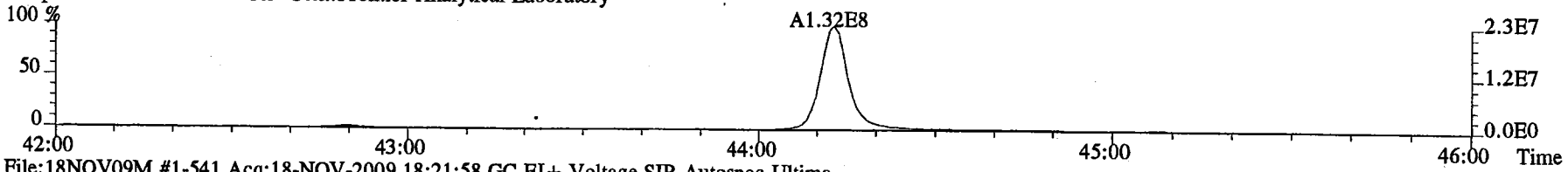
File:18NOV09M #1-464 Acq:18-NOV-2009 18:21:58 GC EI+ Voltage SIR Autospec-Ultima
380.9760 S:6 F:3 Exp:PCDD
Sample Text:ST111809M5 File Text:Frontier Analytical Laboratory



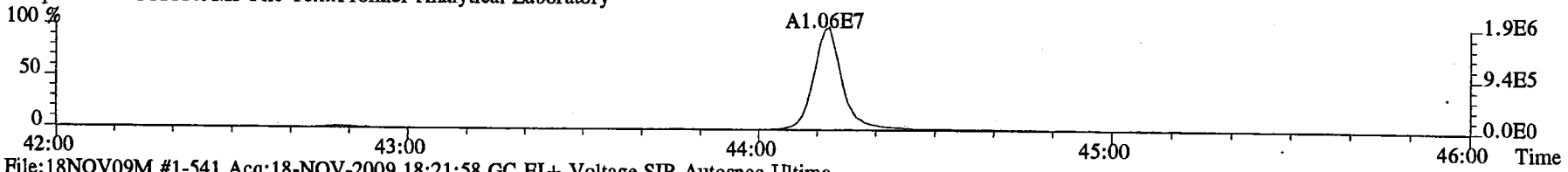
File:18NOV09M #1-541 Acq:18-NOV-2009 18:21:58 GC EI+ Voltage SIR Autospec-Ultima
423.7767 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M5 File Text:Frontier Analytical Laboratory



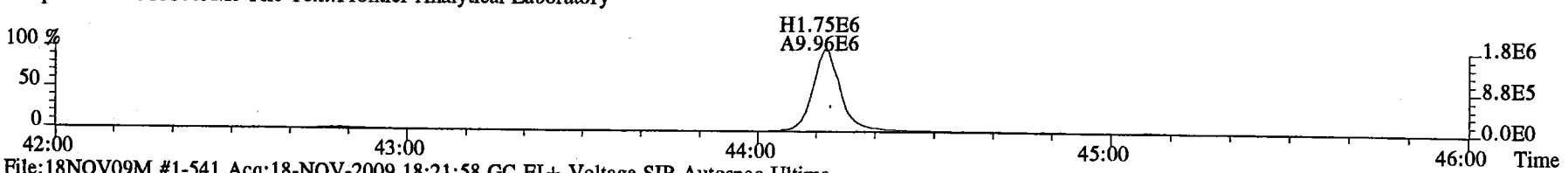
File:18NOV09M #1-541 Acq:18-NOV-2009 18:21:58 GC EI+ Voltage SIR Autospec-Ultima
425.7737 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M5 File Text:Frontier Analytical Laboratory



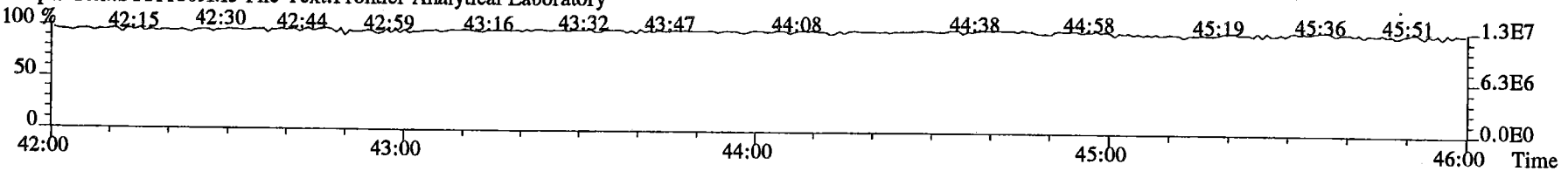
File:18NOV09M #1-541 Acq:18-NOV-2009 18:21:58 GC EI+ Voltage SIR Autospec-Ultima
435.8169 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M5 File Text:Frontier Analytical Laboratory



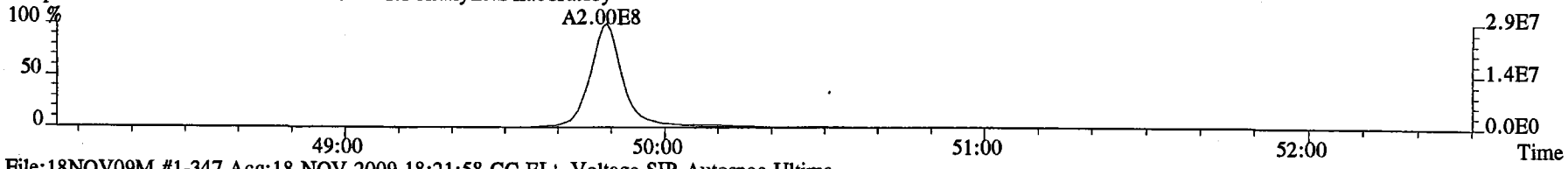
File:18NOV09M #1-541 Acq:18-NOV-2009 18:21:58 GC EI+ Voltage SIR Autospec-Ultima
437.8140 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M5 File Text:Frontier Analytical Laboratory



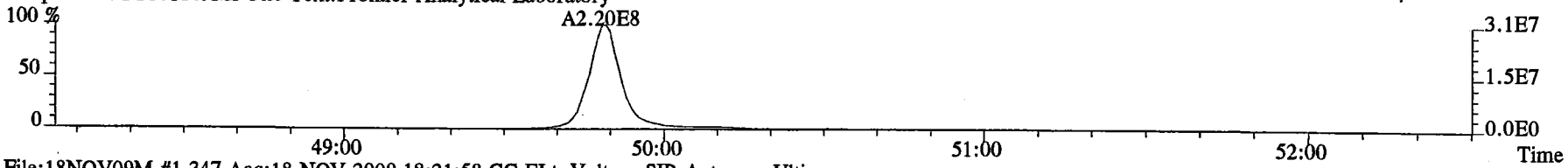
File:18NOV09M #1-541 Acq:18-NOV-2009 18:21:58 GC EI+ Voltage SIR Autospec-Ultima
430.9728 S:6 F:4 Exp:PCDD
Sample Text:ST111809M5 File Text:Frontier Analytical Laboratory



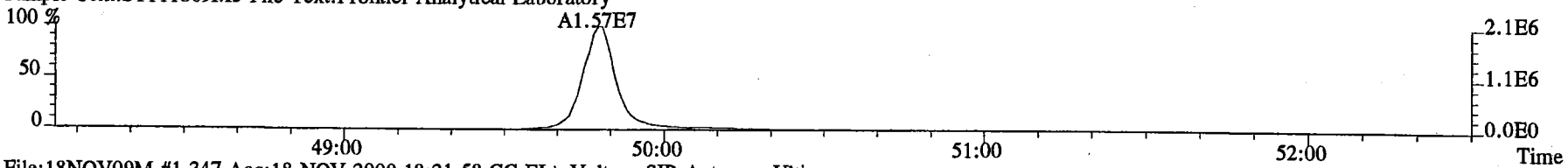
File:18NOV09M #1-347 Acq:18-NOV-2009 18:21:58 GC EI+ Voltage SIR Autospec-Ultima
457.7377 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M5 File Text:Frontier Analytical Laboratory



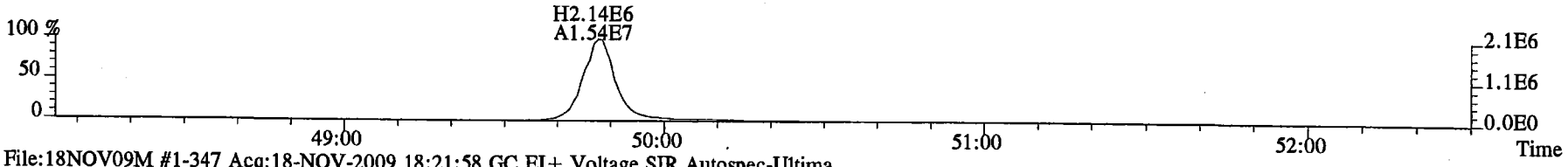
File:18NOV09M #1-347 Acq:18-NOV-2009 18:21:58 GC EI+ Voltage SIR Autospec-Ultima
459.7348 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M5 File Text:Frontier Analytical Laboratory



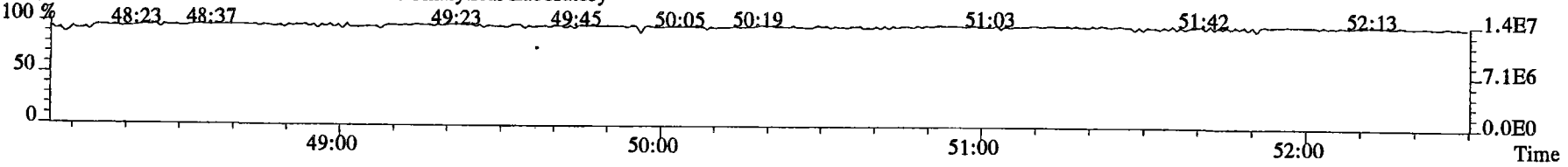
File:18NOV09M #1-347 Acq:18-NOV-2009 18:21:58 GC EI+ Voltage SIR Autospec-Ultima
469.7780 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M5 File Text:Frontier Analytical Laboratory



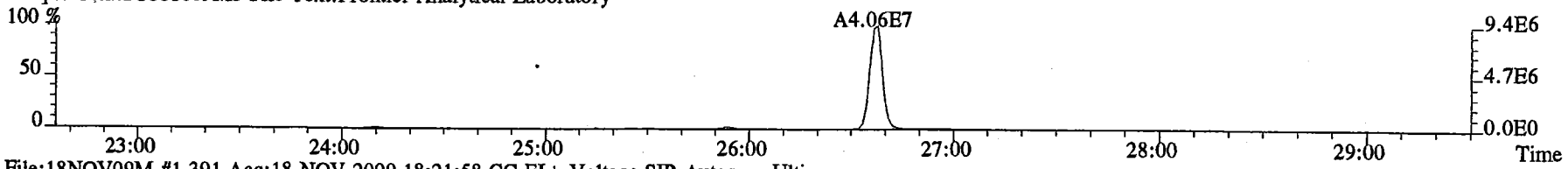
File:18NOV09M #1-347 Acq:18-NOV-2009 18:21:58 GC EI+ Voltage SIR Autospec-Ultima
471.7750 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M5 File Text:Frontier Analytical Laboratory



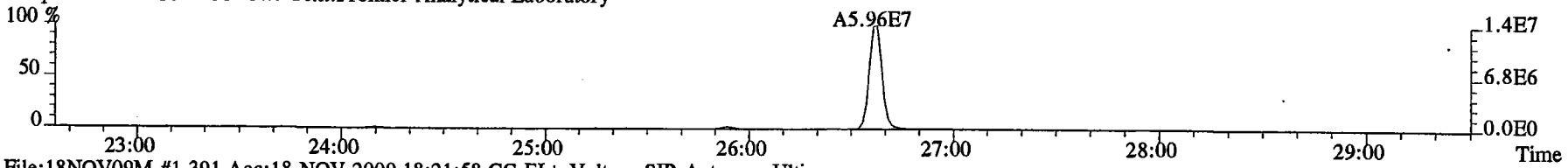
File:18NOV09M #1-347 Acq:18-NOV-2009 18:21:58 GC EI+ Voltage SIR Autospec-Ultima
454.9728 S:6 F:5 Exp:PCDD
Sample Text:ST111809M5 File Text:Frontier Analytical Laboratory



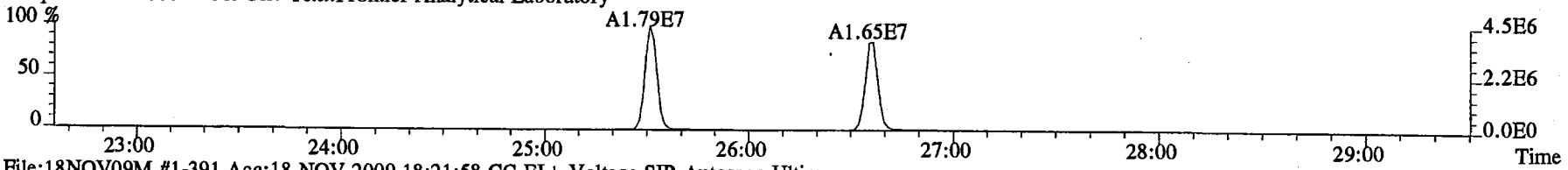
File:18NOV09M #1-391 Acq:18-NOV-2009 18:21:58 GC EI+ Voltage SIR Autospec-Ultima
303.9016 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M5 File Text:Frontier Analytical Laboratory



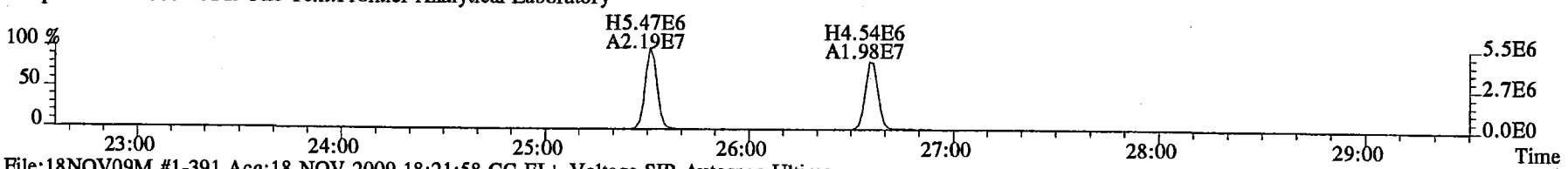
File:18NOV09M #1-391 Acq:18-NOV-2009 18:21:58 GC EI+ Voltage SIR Autospec-Ultima
305.8987 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M5 File Text:Frontier Analytical Laboratory



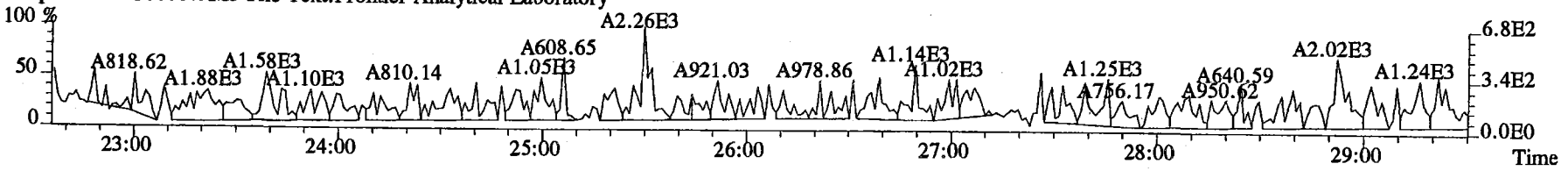
File:18NOV09M #1-391 Acq:18-NOV-2009 18:21:58 GC EI+ Voltage SIR Autospec-Ultima
315.9419 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M5 File Text:Frontier Analytical Laboratory



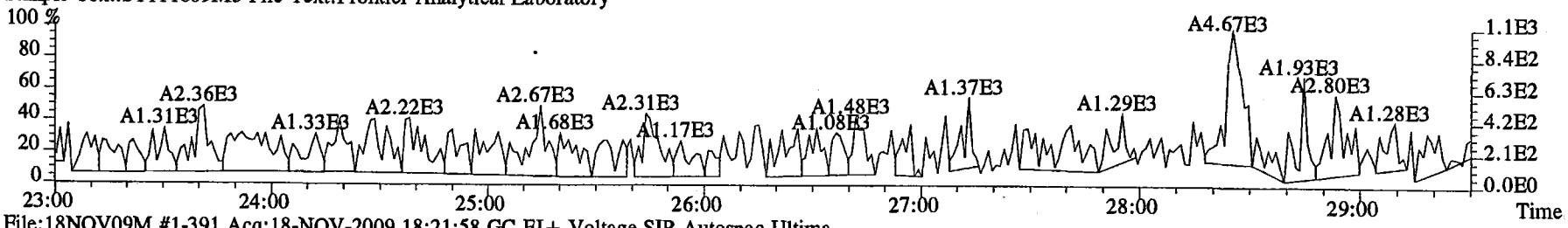
File:18NOV09M #1-391 Acq:18-NOV-2009 18:21:58 GC EI+ Voltage SIR Autospec-Ultima
317.9389 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M5 File Text:Frontier Analytical Laboratory



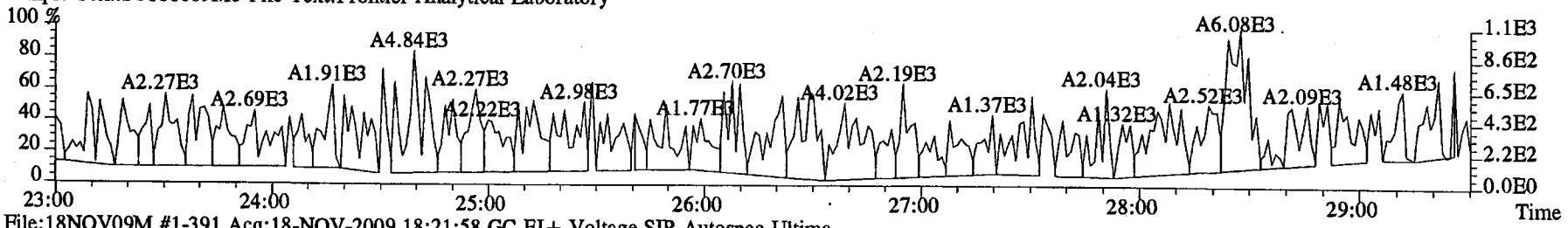
File:18NOV09M #1-391 Acq:18-NOV-2009 18:21:58 GC EI+ Voltage SIR Autospec-Ultima
375.8364 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M5 File Text:Frontier Analytical Laboratory



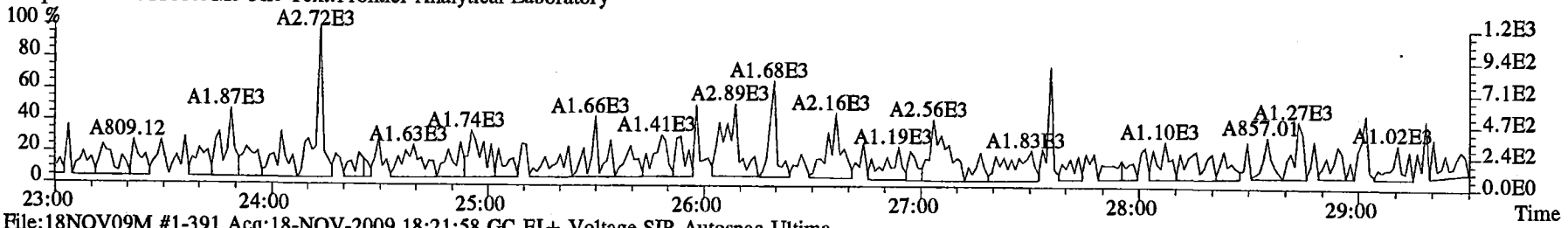
File:18NOV09M #1-391 Acq:18-NOV-2009 18:21:58 GC EI+ Voltage SIR Autospec-Ultima
339.8597 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M5 File Text:Frontier Analytical Laboratory



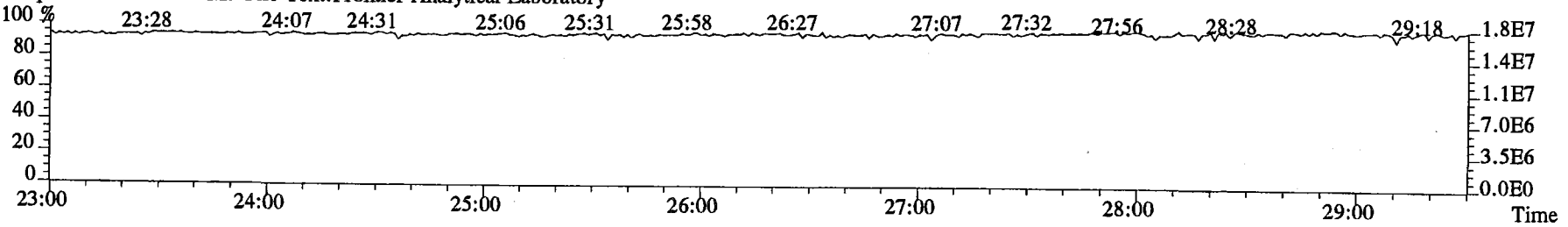
File:18NOV09M #1-391 Acq:18-NOV-2009 18:21:58 GC EI+ Voltage SIR Autospec-Ultima
341.8568 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M5 File Text:Frontier Analytical Laboratory



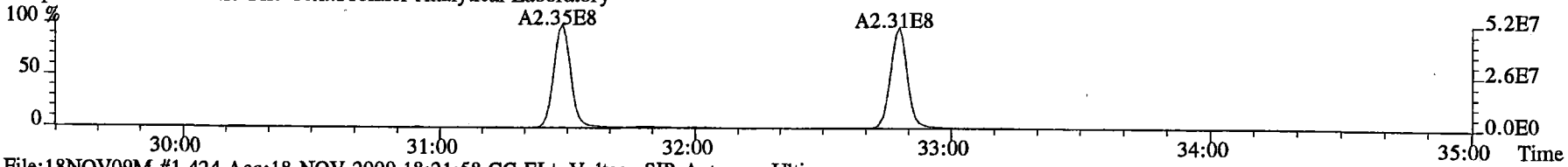
File:18NOV09M #1-391 Acq:18-NOV-2009 18:21:58 GC EI+ Voltage SIR Autospec-Ultima
409.7974 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M5 File Text:Frontier Analytical Laboratory



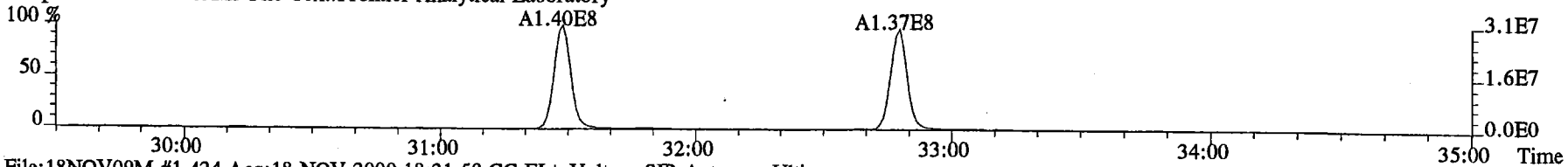
File:18NOV09M #1-391 Acq:18-NOV-2009 18:21:58 GC EI+ Voltage SIR Autospec-Ultima
330.9792 S:6 Exp:PCDD
Sample Text:ST111809M5 File Text:Frontier Analytical Laboratory



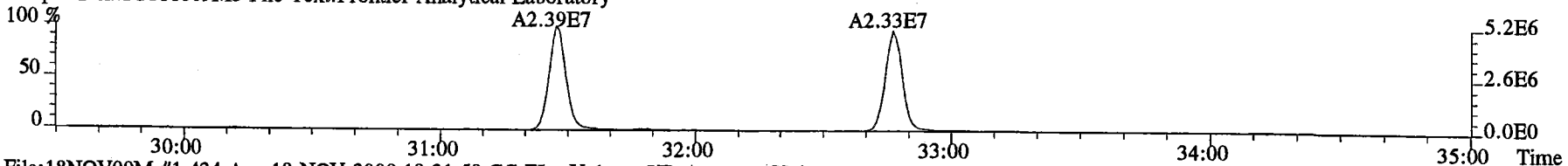
File:18NOV09M #1-424 Acq:18-NOV-2009 18:21:58 GC EI+ Voltage SIR Autospec-Ultima
339.8597 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M5 File Text:Frontier Analytical Laboratory



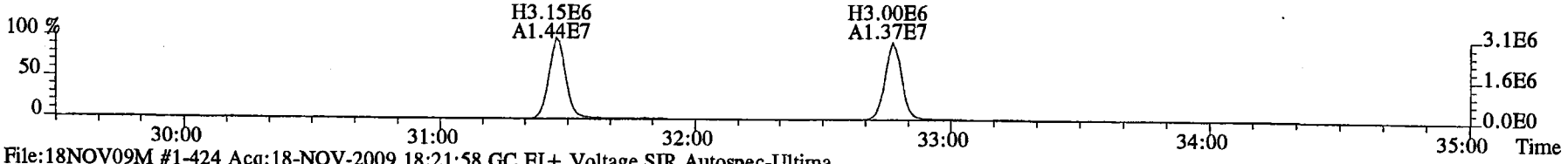
File:18NOV09M #1-424 Acq:18-NOV-2009 18:21:58 GC EI+ Voltage SIR Autospec-Ultima
341.8568 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M5 File Text:Frontier Analytical Laboratory



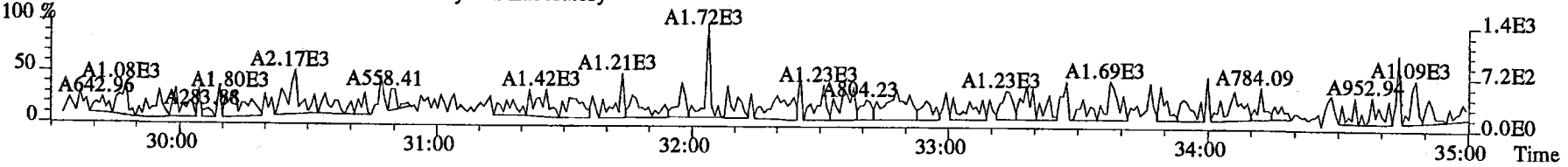
File:18NOV09M #1-424 Acq:18-NOV-2009 18:21:58 GC EI+ Voltage SIR Autospec-Ultima
351.9000 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M5 File Text:Frontier Analytical Laboratory



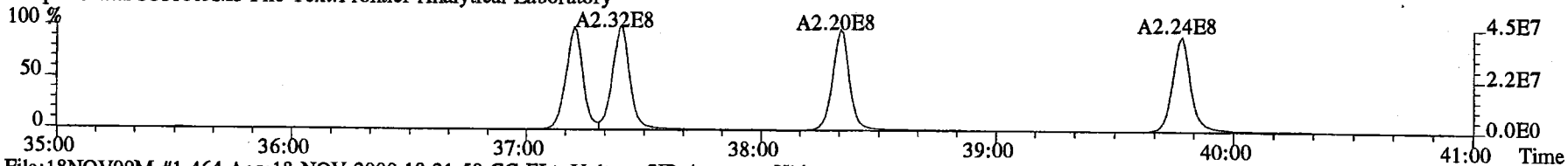
File:18NOV09M #1-424 Acq:18-NOV-2009 18:21:58 GC EI+ Voltage SIR Autospec-Ultima
353.8970 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M5 File Text:Frontier Analytical Laboratory



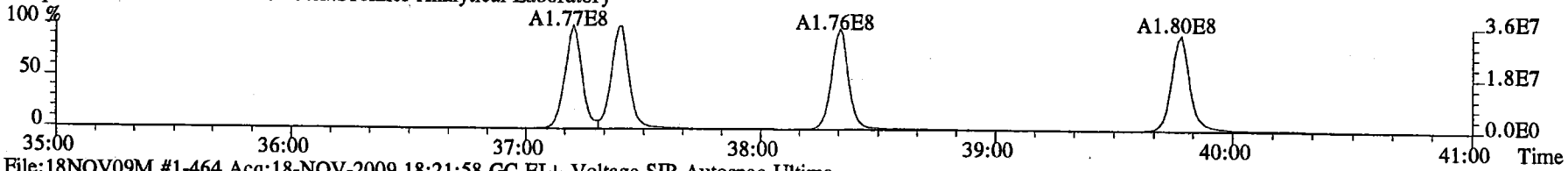
File:18NOV09M #1-424 Acq:18-NOV-2009 18:21:58 GC EI+ Voltage SIR Autospec-Ultima
409.7974 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M5 File Text:Frontier Analytical Laboratory



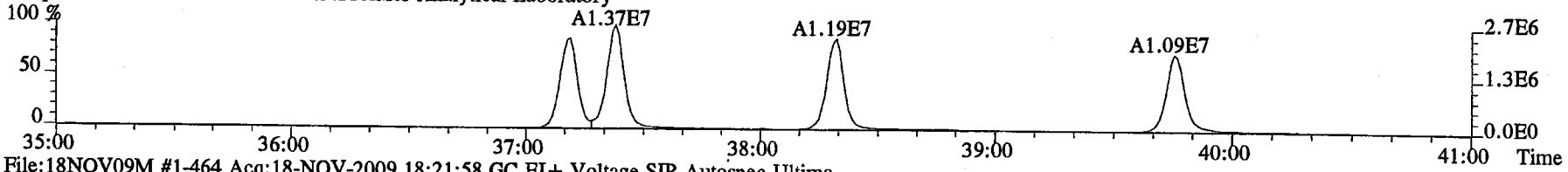
File:18NOV09M #1-464 Acq:18-NOV-2009 18:21:58 GC EI+ Voltage SIR Autospec-Ultima
373.8207 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M5 File Text:Frontier Analytical Laboratory



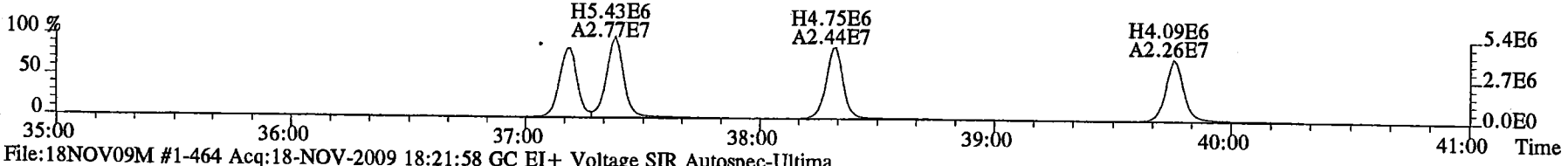
File:18NOV09M #1-464 Acq:18-NOV-2009 18:21:58 GC EI+ Voltage SIR Autospec-Ultima
375.8178 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M5 File Text:Frontier Analytical Laboratory



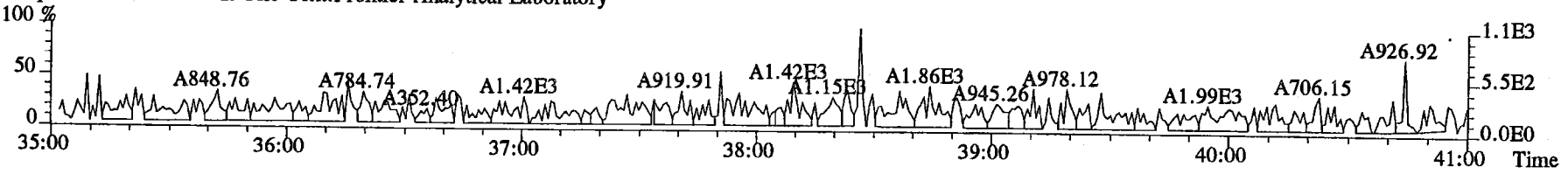
File:18NOV09M #1-464 Acq:18-NOV-2009 18:21:58 GC EI+ Voltage SIR Autospec-Ultima
383.8639 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M5 File Text:Frontier Analytical Laboratory



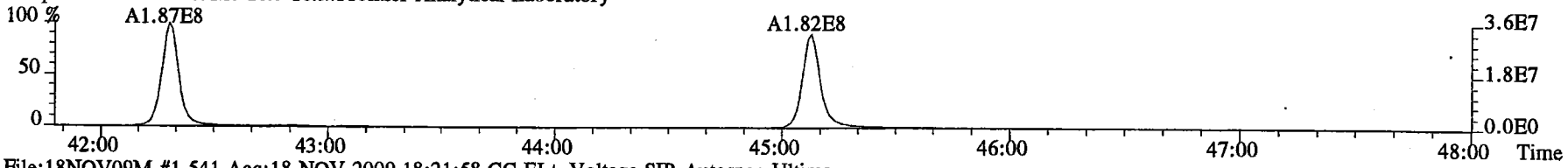
File:18NOV09M #1-464 Acq:18-NOV-2009 18:21:58 GC EI+ Voltage SIR Autospec-Ultima
385.8610 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M5 File Text:Frontier Analytical Laboratory



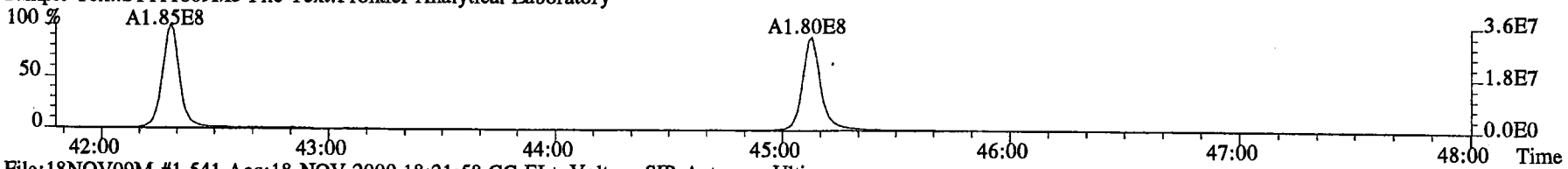
File:18NOV09M #1-464 Acq:18-NOV-2009 18:21:58 GC EI+ Voltage SIR Autospec-Ultima
445.7555 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M5 File Text:Frontier Analytical Laboratory



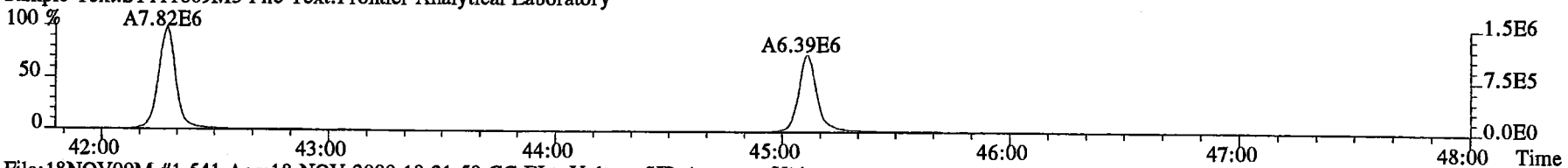
File:18NOV09M #1-541 Acq:18-NOV-2009 18:21:58 GC EI+ Voltage SIR Autospec-Ultima
407.7818 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M5 File Text:Frontier Analytical Laboratory



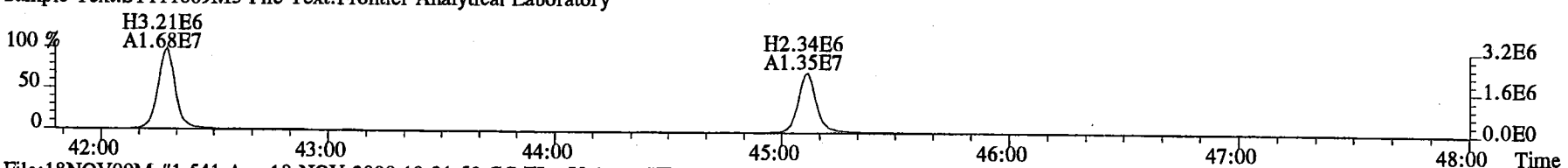
File:18NOV09M #1-541 Acq:18-NOV-2009 18:21:58 GC EI+ Voltage SIR Autospec-Ultima
409.7788 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M5 File Text:Frontier Analytical Laboratory



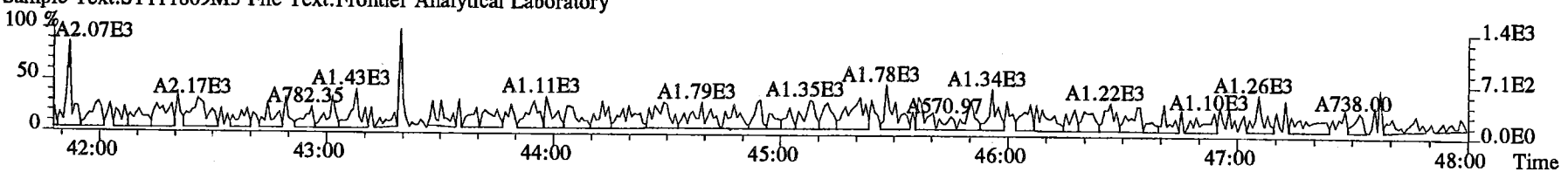
File:18NOV09M #1-541 Acq:18-NOV-2009 18:21:58 GC EI+ Voltage SIR Autospec-Ultima
417.8253 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M5 File Text:Frontier Analytical Laboratory



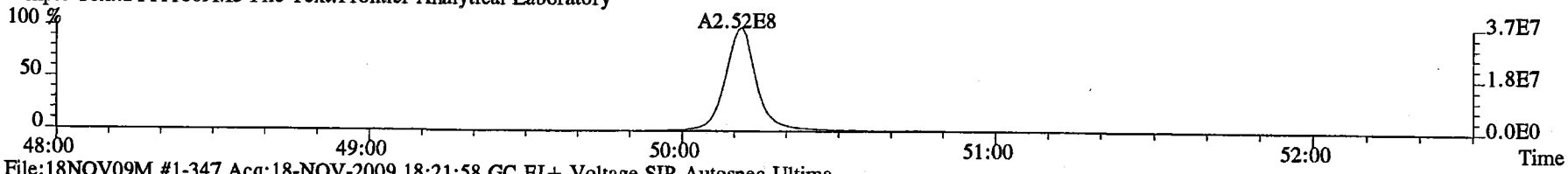
File:18NOV09M #1-541 Acq:18-NOV-2009 18:21:58 GC EI+ Voltage SIR Autospec-Ultima
419.8220 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M5 File Text:Frontier Analytical Laboratory



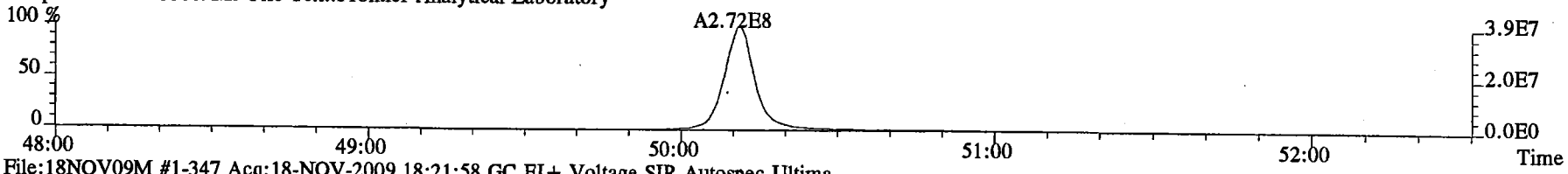
File:18NOV09M #1-541 Acq:18-NOV-2009 18:21:58 GC EI+ Voltage SIR Autospec-Ultima
479.7165 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M5 File Text:Frontier Analytical Laboratory



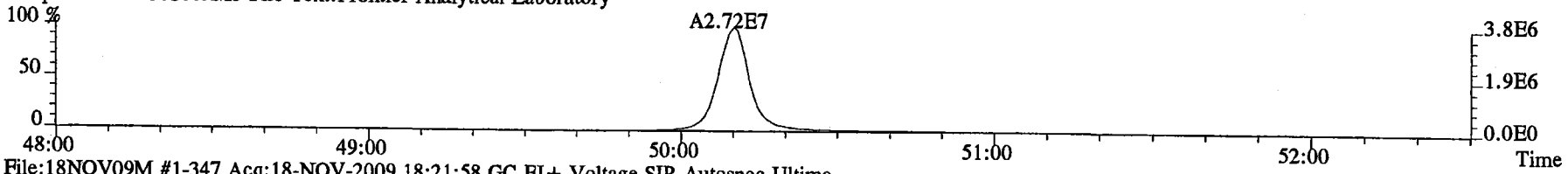
File:18NOV09M #1-347 Acq:18-NOV-2009 18:21:58 GC EI+ Voltage SIR Autospec-Ultima
441.7428 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M5 File Text:Frontier Analytical Laboratory



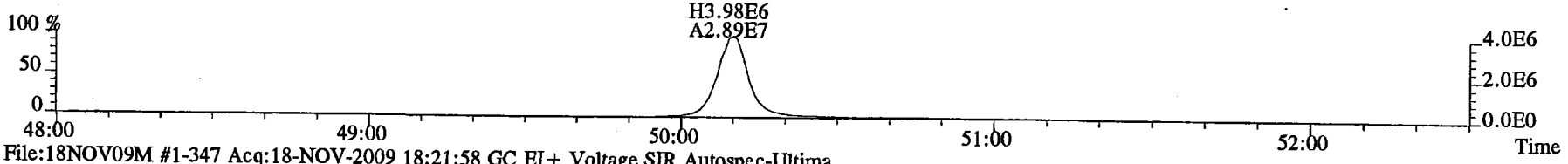
File:18NOV09M #1-347 Acq:18-NOV-2009 18:21:58 GC EI+ Voltage SIR Autospec-Ultima
443.7398 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M5 File Text:Frontier Analytical Laboratory



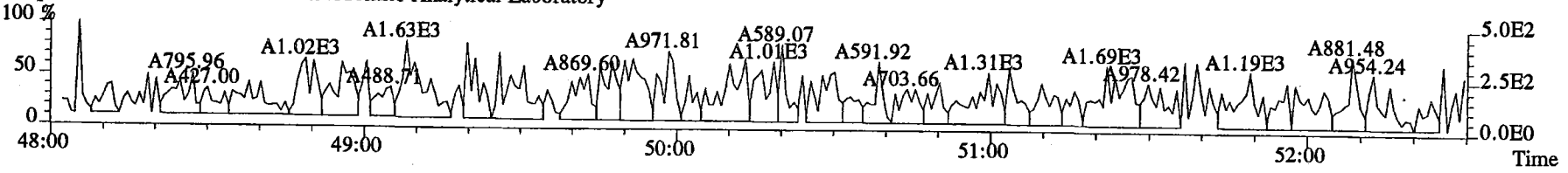
File:18NOV09M #1-347 Acq:18-NOV-2009 18:21:58 GC EI+ Voltage SIR Autospec-Ultima
453.7831 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M5 File Text:Frontier Analytical Laboratory



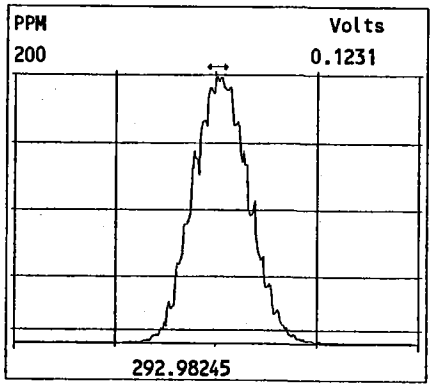
File:18NOV09M #1-347 Acq:18-NOV-2009 18:21:58 GC EI+ Voltage SIR Autospec-Ultima
455.7801 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M5 File Text:Frontier Analytical Laboratory

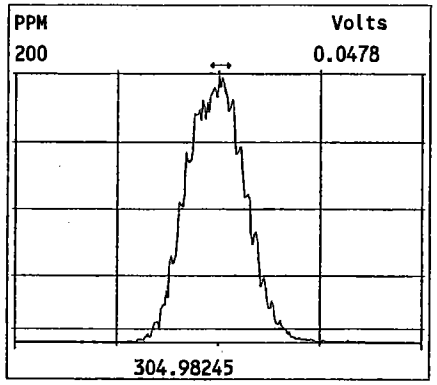


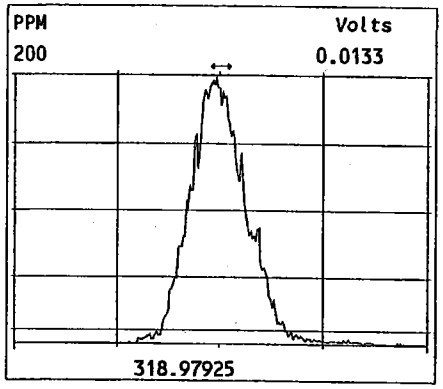
File:18NOV09M #1-347 Acq:18-NOV-2009 18:21:58 GC EI+ Voltage SIR Autospec-Ultima
513.6775 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M5 File Text:Frontier Analytical Laboratory

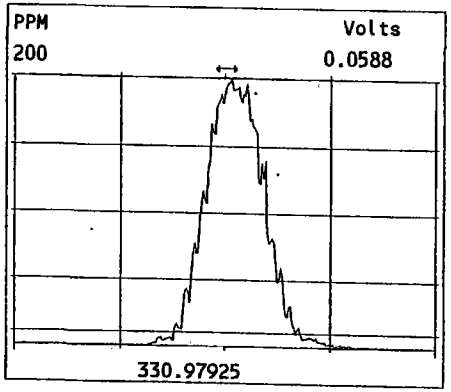


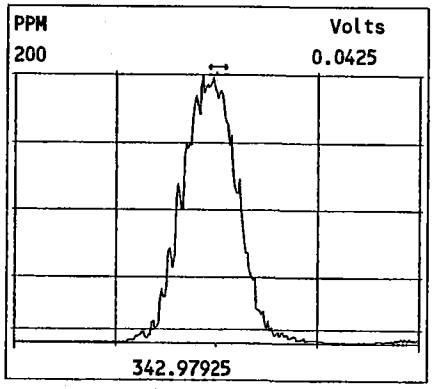
Peak Locate Examination:19-NOV-2009:14:42 File:18NOV09M_RES_CHECK
Experiment:PCDD Function:1 Reference:PFK

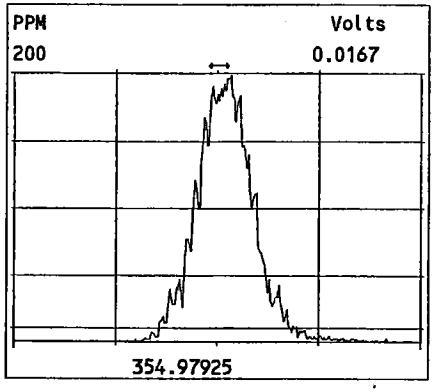


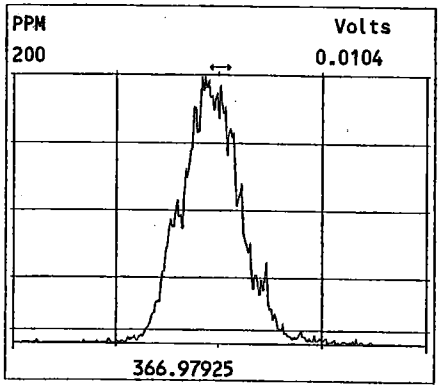


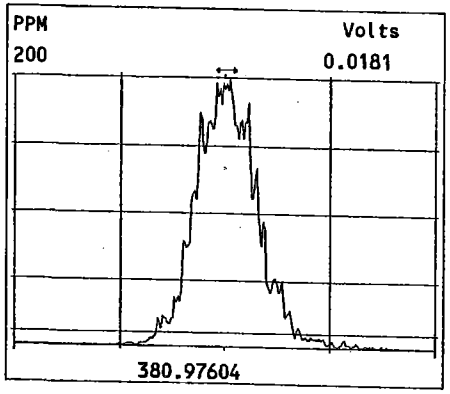


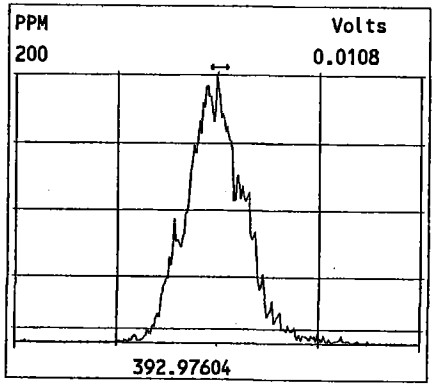


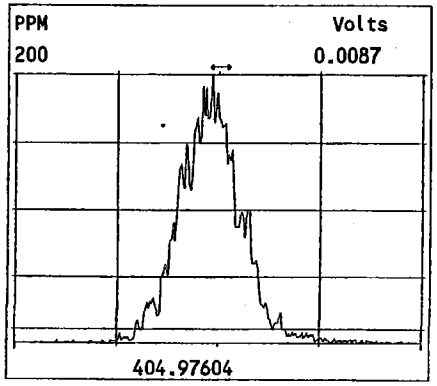


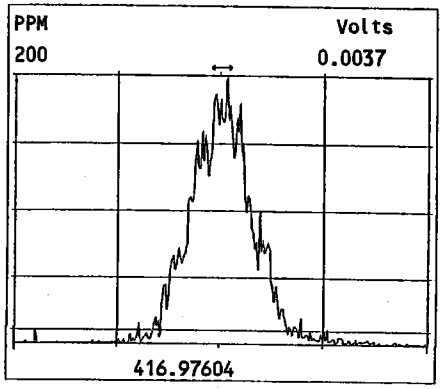




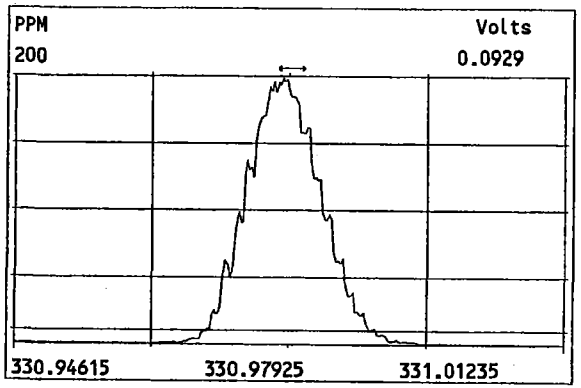


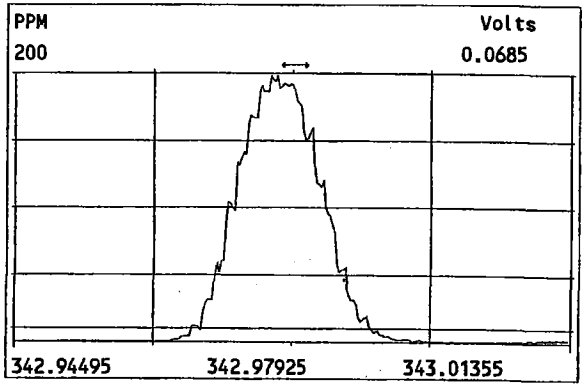


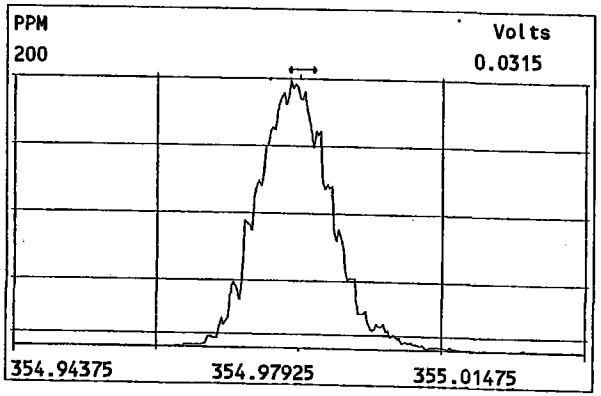


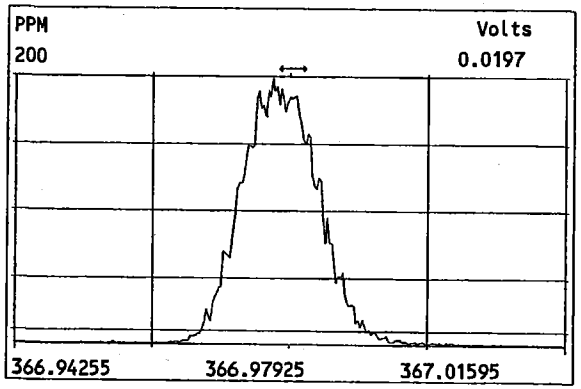


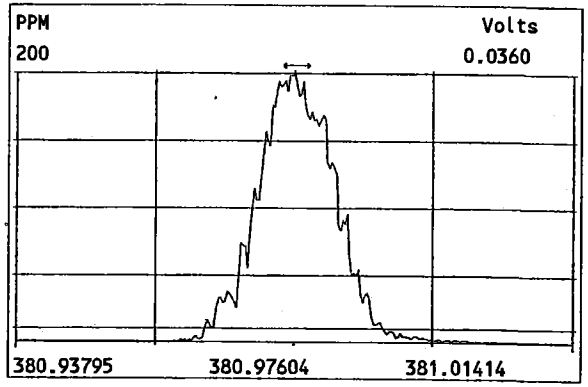
Peak Locate Examination:19-NOV-2009:14:42 File:18NOV09M_RES_CHECK
Experiment:PCDD Function:2 Reference:PFK

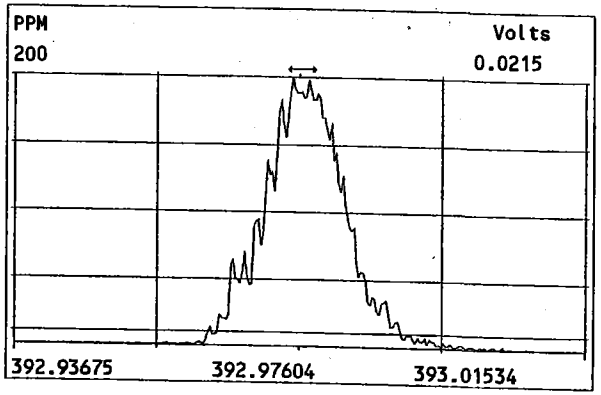


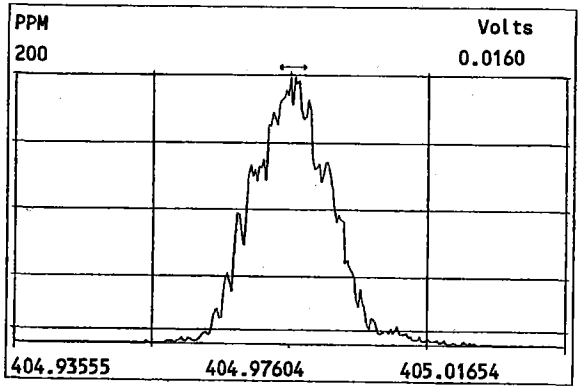


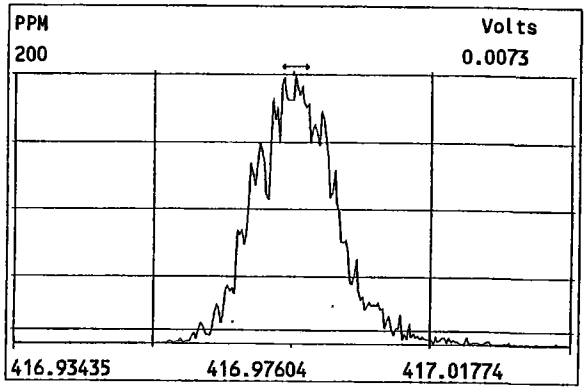




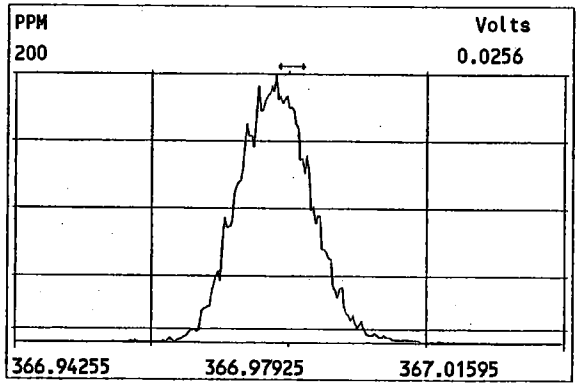


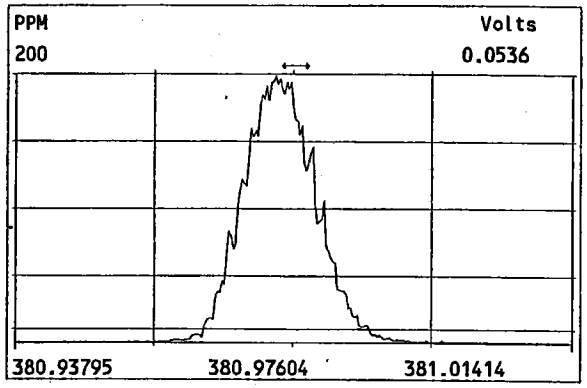


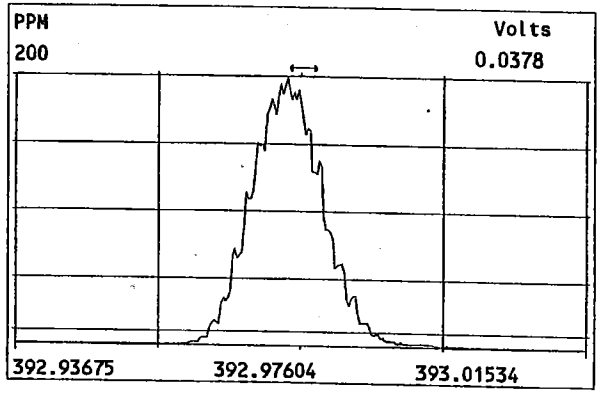


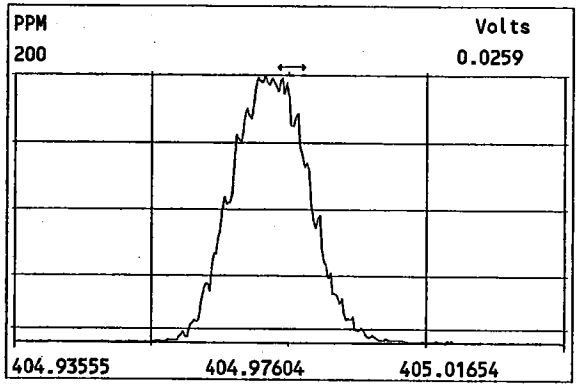


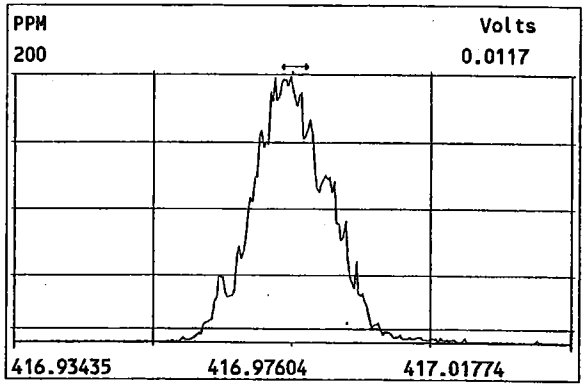
Peak Locate Examination:19-NOV-2009:14:42 File:18NOV09M_RES_CHECK
Experiment:PCDD Function:3 Reference:PFK

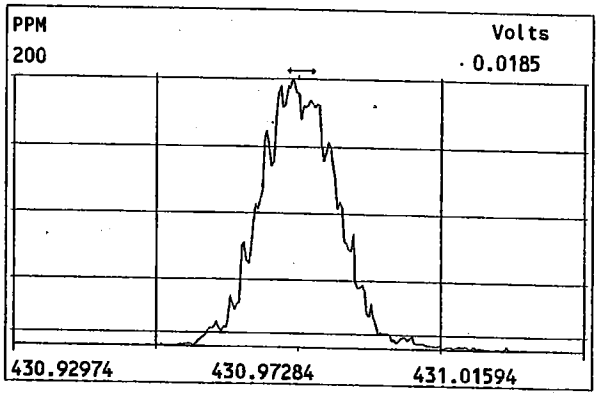


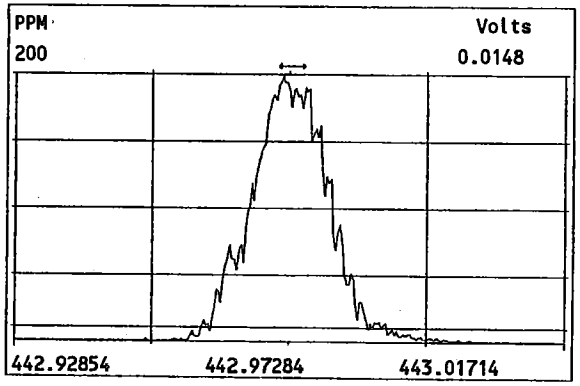


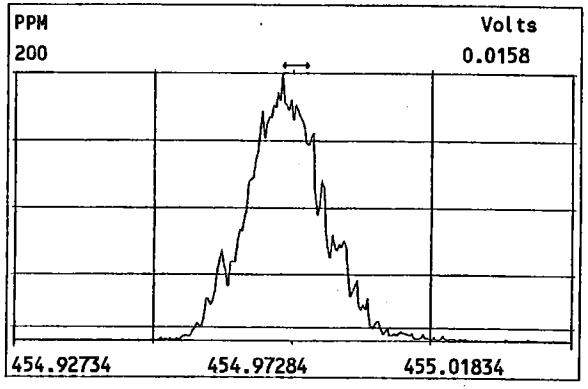




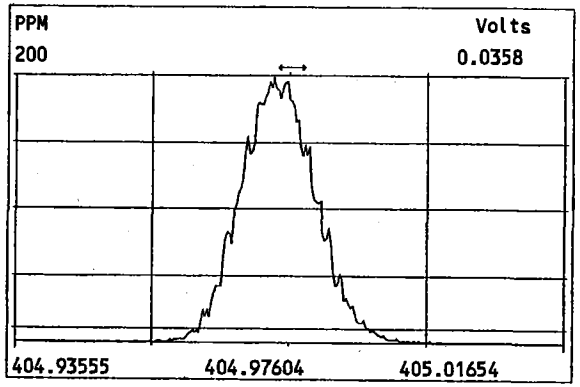


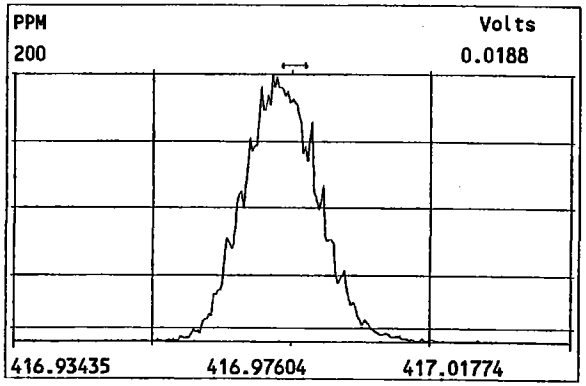


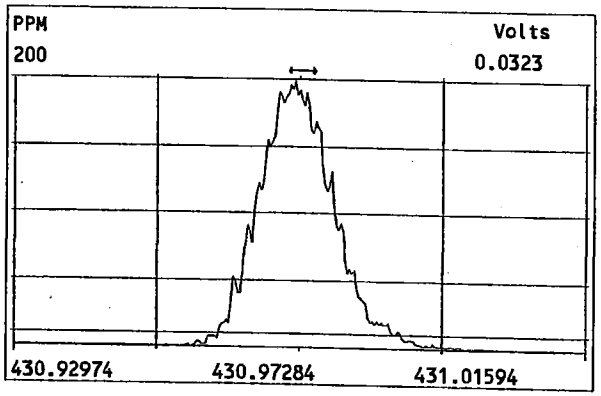


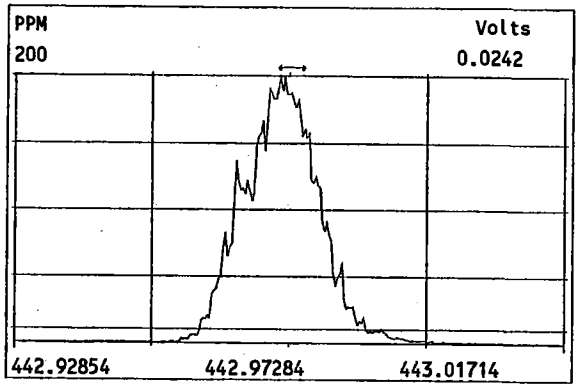


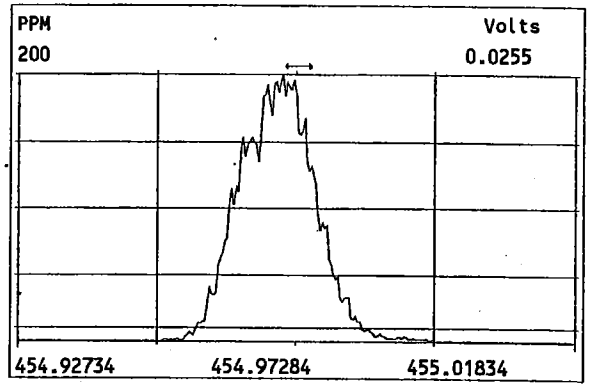
Peak Locate Examination:19-NOV-2009:14:43 File:18NOV09M_RES_CHECK
Experiment:PCDD Function:4 Reference:PFK

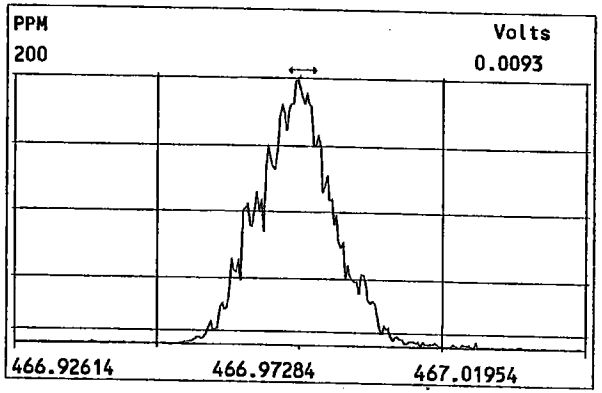


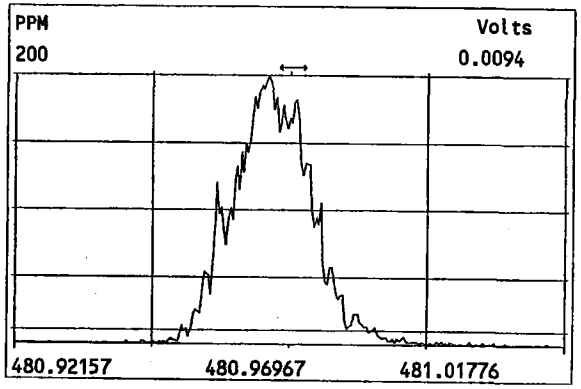




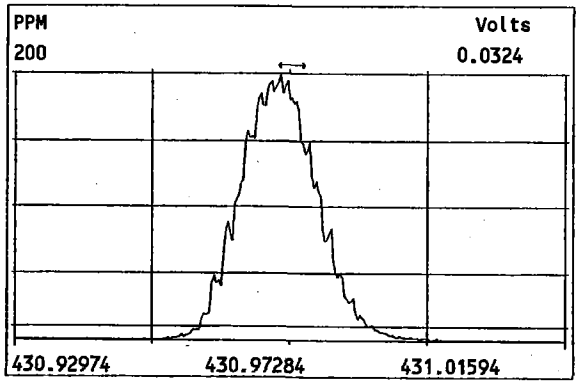


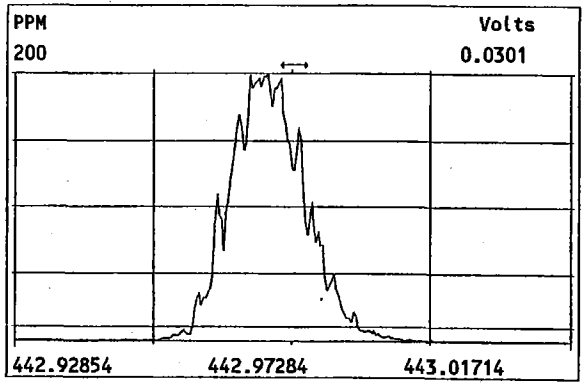


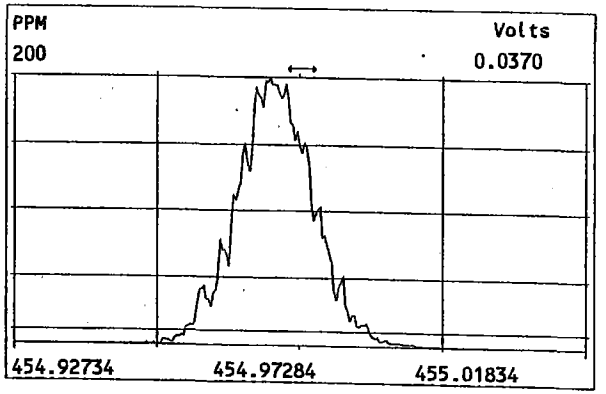


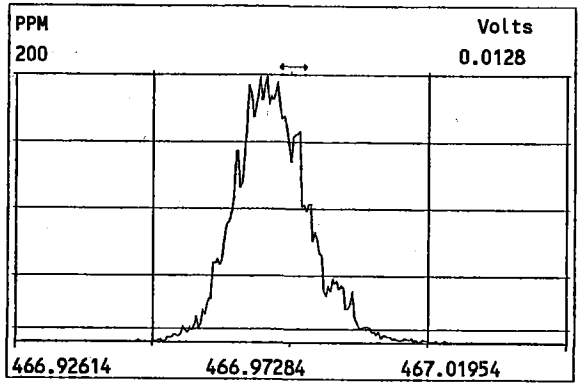


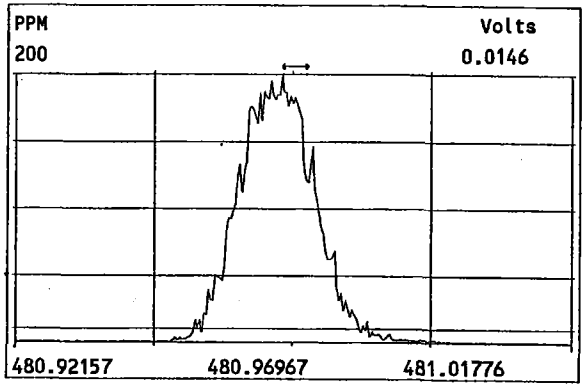
Peak Locate Examination:19-NOV-2009:14:43 File:18NOV09M_RES_CHECK
Experiment:PCDD Function:5 Reference:PFK

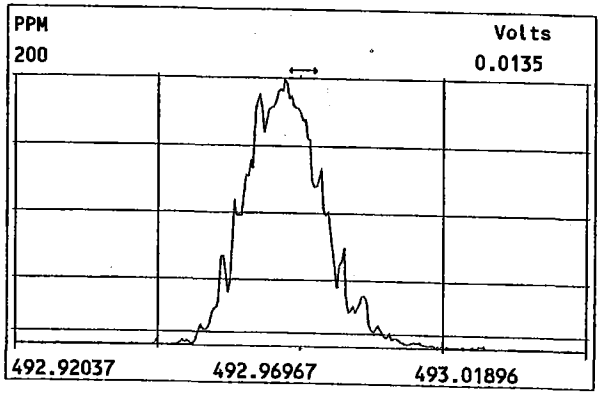


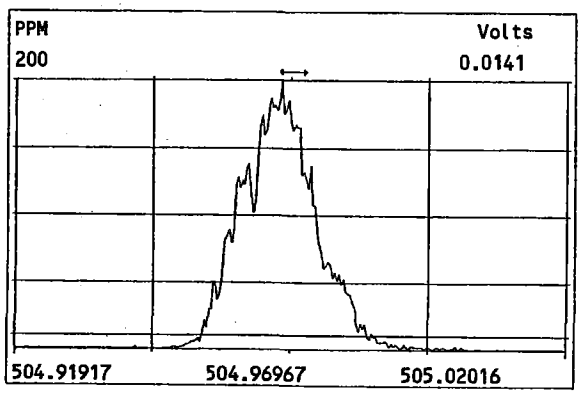


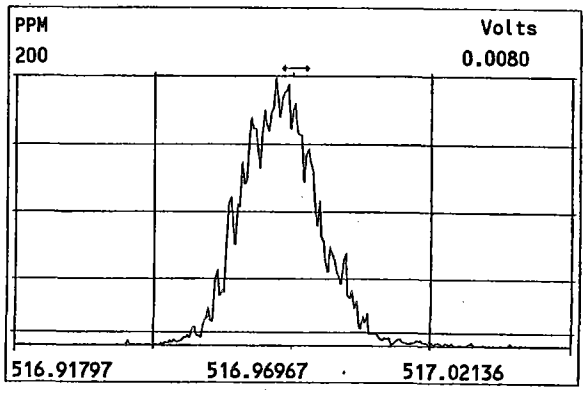












Continuing/Ending Calibration Results

USEPA - ITD

FORM 4A
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 11/18/09

Instrument ID: FAL3 GC Column ID: DB5

VER Data Filename: 10MAR10M Sam:1 Analysis Date: 10-MAR-10 13:43:18

NATIVE ANALYTES	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL) (3)
2,3,7,8-TCDD	M/M+2	0.79	0.65-0.89	y	11.7	7.80 - 12.9
1,2,3,7,8-PeCDD	M+2/M+4	1.58	1.32-1.78	y	51.8	39.0 - 65.0
1,2,3,4,7,8-HxCDD	M+2/M+4	1.28	1.05-1.43	y	49.3	39.0 - 64.0
1,2,3,6,7,8-HxCDD	M+2/M+4	1.25	1.05-1.43	y	49.5	39.0 - 64.0
1,2,3,7,8,9-HxCDD	M+2/M+4	1.29	1.05-1.43	y	51.1	41.0 - 61.0
1,2,3,4,6,7,8-HpCDD	M+2/M+4	0.94	0.88-1.20	y	50.6	43.0 - 58.0
OCDD	M+2/M+4	0.90	0.76-1.02	y	104	79.0 - 126
2,3,7,8-TCDF	M/M+2	0.68	0.65-0.89	y	10.1	8.40 - 12.0
1,2,3,7,8-PeCDF	M+2/M+4	1.60	1.32-1.78	y	52.9	41.0 - 60.0
2,3,4,7,8-PeCDF	M+2/M+4	1.60	1.32-1.78	y	51.1	41.0 - 60.0
1,2,3,4,7,8-HxCDF	M+2/M+4	1.23	1.05-1.43	y	51.9	45.0 - 56.0
1,2,3,6,7,8-HxCDF	M+2/M+4	1.24	1.05-1.43	y	51.7	44.0 - 57.0
2,3,4,6,7,8-HxCDF	M+2/M+4	1.23	1.05-1.43	y	51.0	44.0 - 57.0
1,2,3,7,8,9-HxCDF	M+2/M+4	1.24	1.05-1.43	y	51.4	45.0 - 56.0
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.03	0.88-1.20	y	50.4	45.0 - 55.0
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.01	0.88-1.20	y	51.1	43.0 - 58.0
OCDF	M+2/M+4	0.90	0.76-1.02	y	101	63.0 - 159

(1) See Table 8, Method 1613, for m/z specifications.

(2) Ion Abundance Ratio Control Limits as specified in Table 9, Method 1613.

(3) Contract-required concentration range as specified in Table 6, Method 1613.

Analyst: _____ Date: 3/11/10

USEPA - ITD

FORM 4B
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 11/18/09

Instrument ID: FAL3 GC Column ID: DB5

VER Data Filename: 10MAR10M Sam:1 Analysis Date: 10-MAR-10 13:43:18

	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL) (3)
LABELED COMPOUNDS						
13C-2,3,7,8-TCDD	M/M+2	0.73	0.65-0.89	y	104	82.0 - 121
13C-1,2,3,7,8-PeCDD	M+2/M+4	1.58	1.32-1.78	y	89.6	62.0 - 160
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.31	1.05-1.43	y	97.8	85.0 - 117
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.29	1.05-1.43	y	101	85.0 - 118
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.07	0.88-1.20	y	101	72.0 - 138
13C-OCDD	M+2/M+4	0.98	0.76-1.02	y	200	96.0 - 415
13C-2,3,7,8-TCDF	M/M+2	0.80	0.65-0.89	y	105	71.0 - 140
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.69	1.32-1.78	y	94.3	76.0 - 130
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.68	1.32-1.78	y	92.6	77.0 - 130
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.47	0.43-0.59	y	93.2	76.0 - 131
13C-1,2,3,6,7,8-HxCDF	M/M+2	0.47	0.43-0.59	y	97.4	70.0 - 143
13C-2,3,4,6,7,8-HxCDF	M/M+2	0.47	0.43-0.59	y	94.5	73.0 - 137
13C-1,2,3,7,8,9-HxCDF	M/M+2	0.47	0.43-0.59	y	93.4	74.0 - 135
13C-1,2,3,4,6,7,8-HpCDF	M/M+2	0.47	0.37-0.51	y	96.5	78.0 - 129
13C-1,2,3,4,7,8,9-HpCDF	M/M+2	0.47	0.37-0.51	y	96.6	77.0 - 129
13C-OCDF	M+2/M+4	0.91	0.76-1.02	y	192	96.0 - 415
CLEANUP STANDARD (4)						
37Cl-2,3,7,8-TCDD					11.2	7.80 - 12.8

(1) See Table 8, Method 1613, for m/z specifications.

(2) Ion Abundance Ratio Control Limits as specified in Table 9, Method 1613.

(3) Contract-required concentration range as specified in Table 6, Method 1613.

(4) No ion abundance ratio; report concentration found.

Analyst: _____ Date: 3/11/10

FORM 5
PCDD/PCDF RT WINDOW AND ISOMER SPECIFICITY STANDARDS

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Instrument ID: FAL3 Initial Calibration Date: 11/18/09

RT Window Data Filename: 10MAR10M Sam:1 Analysis Date: 10-MAR-10 Time: 13:43:18

DB-5 IS Data Filename: 10MAR10M Sam:1 Analysis Date: 10-MAR-10 Time: 13:43:18

DB-225 IS Date Filename: Analysis Date: Time:

DB-5 RT WINDOW DEFINING STANDARDS RESULTS

ISOMERS	ABSOLUTE RT	ISOMERS	ABSOLUTE RT
1,3,6,8-TCDD (F)	24:20	1,3,6,8-TCDF (F)	22:59
1,2,8,9-TCDD (L)	28:16	1,2,8,9-TCDF (L)	28:29
1,2,4,7,9-PeCDD (F)	30:11	1,3,4,6,8-PeCDF (F)	28:22
1,2,3,8,9-PeCDD (L)	33:44	1,2,3,8,9-PeCDF (L)	34:10
1,2,4,6,7,9-HxCDD (F)	36:04	1,2,3,4,6,8-HxCDF (F)	35:11
1,2,3,7,8,9-HxCDD (L)	39:08	1,2,3,7,8,9-HxCDF (L)	39:42
1,2,3,4,6,7,9-HpCDD (F)	42:45	1,2,3,4,6,7,8-HpCDF (F)	42:14
1,2,3,4,6,7,8-HpCDD (L)	44:08	1,2,3,4,7,8,9-HpCDF (L)	45:03

(F) = First eluting isomer (DB-5); (L) = Last eluting isomer (DB-5)

ISOMER SPECIFICITY (IS) TEST STANDARD RESULTS

COMPARED PEAKS (1)	% VALLEY HEIGHT BETWEEN
	<25%

(1) To meet contract requirement, %Valley Height Between Compared Peaks shall not exceed 25% (section 15.4.2.2, Method 1613).

Analyst: _____ Date: 3/11/10

USEPA - ITD

FORM 6A
PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.: Init. Cal. Date: 11/18/09

Instrument ID: FAL3 GC Column ID: DB5

Analysis Date: 10-MAR-10 13:43:18 CS3 or VER Data Filename: 10MAR10M Sam:1

NATIVE ANALYTES	RETENTION TIME REFERENCE	RRT	RRT QC LIMITS (1)
2,3,7,8-TCDD	13C-2,3,7,8-TCDD	1.001	0.999-1.002
2,3,7,8-TCDF	13C-2,3,7,8-TCDF	1.001	0.999-1.003
1,2,3,7,8-PeCDD	13C-1,2,3,7,8-PeCDD	1.000	0.999-1.002
1,2,3,7,8-PeCDF	13C-1,2,3,7,8-PeCDF	1.001	0.999-1.002
2,3,4,7,8-PeCDF	13C-2,3,4,7,8-PeCDF	1.001	0.999-1.002
LABELED COMPOUNDS			
37Cl-2,3,7,8-TCDD	13C-1,2,3,4-TCDD	1.022	0.989-1.052
13C-2,3,7,8-TCDD		1.021	0.976-1.043
13C-2,3,7,8-TCDF		0.993	0.923-1.103
13C-1,2,3,7,8-PeCDD		1.239	1.000-1.567
13C-1,2,3,7,8-PeCDF		1.174	0.923-1.203
13C-2,3,4,7,8-PeCDF		1.223	0.923-1.303

(1) Contract-required limits for Relative Retention Times (RRT) as specified in Table 2, Method 1613.

Analyst: [signature] Date: 3/11/10

USEPA - ITD

FORM 6B
PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.: Init. Cal. Date: 11/18/09

Instrument ID: FAL3 GC Column ID: DB5

Analysis Date: 10-MAR-10 13:43:18 CS3 or VER Data Filename: 10MAR10M Sam:1

NATIVE ANALYTES	RETENTION TIME REFERENCE	RRT	RRT QC LIMITS (1)
1,2,3,4,7,8-HxCDD	13C-1,2,3,4,7,8-HxCDD	1.001	0.999-1.001
1,2,3,6,7,8-HxCDD	13C-1,2,3,6,7,8-HxCDD	1.001	0.998-1.004
1,2,3,7,8,9-HxCDD	13C-1,2,3,6,7,8-HxCDD	1.012	1.000-1.019
1,2,3,4,7,8-HxCDF	13C-1,2,3,4,7,8-HxCDF	1.000	0.999-1.001
1,2,3,6,7,8-HxCDF	13C-1,2,3,6,7,8-HxCDF	1.001	0.997-1.005
2,3,4,6,7,8-HxCDF	13C-2,3,4,6,7,8-HxCDF	1.000	0.999-1.001
1,2,3,7,8,9-HxCDF	13C-1,2,3,7,8,9-HxCDF	1.000	0.999-1.001
1,2,3,4,6,7,8-HpCDD	13C-1,2,3,4,6,7,8-HpCDD	1.000	0.999-1.001
1,2,3,4,6,7,8-HpCDF	13C-1,2,3,4,6,7,8-HpCDF	1.001	0.999-1.001
1,2,3,4,7,8,9-HpCDF	13C-1,2,3,4,7,8,9-HpCDF	1.001	0.999-1.001
OCDD	13C-OCDD	1.000	0.999-1.001
OCDF	13C-OCDF	1.001	0.999-1.001
LABELED COMPOUNDS			
13C-1,2,3,4,7,8-HxCDD	13C-1,2,3,7,8,9-HxCDD	0.984	0.977-1.000
13C-1,2,3,6,7,8-HxCDD		0.988	0.981-1.003
13C-1,2,3,4,7,8-HxCDF		0.949	0.944-0.970
13C-1,2,3,6,7,8-HxCDF		0.954	0.949-0.975
13C-2,3,4,6,7,8-HxCDF		0.978	0.959-1.021
13C-1,2,3,7,8,9-HxCDF		1.015	0.977-1.047
13C-1,2,3,4,6,7,8-HpCDD		1.128	1.086-1.130
13C-1,2,3,4,6,7,8-HpCDF		1.079	1.043-1.085
13C-1,2,3,4,7,8,9-HpCDF		1.151	1.057-1.154
13C-OCDD		1.270	1.032-1.311
13C-OCDF		1.279	1.000-1.311

(1) Contract-required limits for Relative Retention Times (RRT) as specified in Table 2, Method 1613.

Analyst: _____ Date: 3/11/10

FAL ID: ST031010M1 Filename: 10MAR10M Sam:1 Acquired: 10-MAR-10 13:43:18 ICal: PCDDFAL3-11-18-09
Client ID: 1613 CS3 (090918J) ConCal: ST031010M1 EndCal: ST031010M2
Results: GC Column: DB5 Amount: 1.000 NATO 1989 Tox: 104
WHO 1998 Tox: 130 WHO 2005 Tox: 119

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL
2,3,7,8-TCDD	3.14e+06	0.79 y	27:20	1.02	11.7		2.50	-	-	*
1,2,3,7,8-PeCDD	1.23e+07	1.58 y	33:09	0.96	51.8		2.50	-	-	*
1,2,3,4,7,8-HxCDD	1.13e+07	1.28 y	38:32	1.37	49.3		2.50	-	-	*
1,2,3,6,7,8-HxCDD	1.08e+07	1.25 y	38:42	1.34	49.5		2.50	-	-	*
1,2,3,7,8,9-HxCDD	1.15e+07	1.29 y	39:08	1.37	51.1		2.50	-	-	*
1,2,3,4,6,7,8-HpCDD	9.33e+06	0.94 y	44:08	1.17	50.6		2.50	-	-	*
OCDD	1.46e+07	0.90 y	49:41	1.21	104		2.50	-	-	*
2,3,7,8-TCDF	5.39e+06	0.68 y	26:35	1.29	10.1		2.50	-	-	*
1,2,3,7,8-PeCDF	1.75e+07	1.60 y	31:25	0.89	52.9		2.50	-	-	*
2,3,4,7,8-PeCDF	1.64e+07	1.60 y	32:44	0.91	51.1		2.50	-	-	*
1,2,3,4,7,8-HxCDF	1.44e+07	1.23 y	37:08	1.00	51.9		2.50	-	-	*
1,2,3,6,7,8-HxCDF	1.60e+07	1.24 y	37:20	0.92	51.7		2.50	-	-	*
2,3,4,6,7,8-HxCDF	1.43e+07	1.23 y	38:16	0.99	51.0		2.50	-	-	*
1,2,3,7,8,9-HxCDF	1.36e+07	1.24 y	39:42	1.09	51.4		2.50	-	-	*
1,2,3,4,6,7,8-HpCDF	1.26e+07	1.03 y	42:14	1.36	50.4		2.50	-	-	*
1,2,3,4,7,8,9-HpCDF	1.16e+07	1.01 y	45:03	1.61	51.1		2.50	-	-	*
OCDF	1.66e+07	0.90 y	50:04	0.84	101		2.50	-	-	*
										Rec
13C-2,3,7,8-TCDD	2.63e+07	0.73 y	27:18	0.94	104					104
13C-1,2,3,7,8-PeCDD	2.46e+07	1.58 y	33:08	1.02	89.6					89.6
13C-1,2,3,4,7,8-HxCDD	1.66e+07	1.31 y	38:30	0.98	97.8					97.8
13C-1,2,3,6,7,8-HxCDD	1.63e+07	1.29 y	38:40	0.94	101					101
13C-1,2,3,4,6,7,8-HpCDD	1.58e+07	1.07 y	44:07	0.90	101					101
13C-OCDD	2.31e+07	0.98 y	49:40	0.67	200					100
13C-2,3,7,8-TCDF	4.16e+07	0.80 y	26:33	0.88	105					105
13C-1,2,3,7,8-PeCDF	3.72e+07	1.69 y	31:24	0.88	94.3					94.3
13C-2,3,4,7,8-PeCDF	3.54e+07	1.68 y	32:43	0.85	92.6					92.6
13C-1,2,3,4,7,8-HxCDF	2.77e+07	0.47 y	37:07	1.72	93.2					93.2
13C-1,2,3,6,7,8-HxCDF	3.37e+07	0.47 y	37:19	2.00	97.4					97.4
13C-2,3,4,6,7,8-HxCDF	2.84e+07	0.47 y	38:15	1.74	94.5					94.5
13C-1,2,3,7,8,9-HxCDF	2.43e+07	0.47 y	39:41	1.51	93.4					93.4
13C-1,2,3,4,6,7,8-HpCDF	1.83e+07	0.47 y	42:13	1.10	96.5					96.5
13C-1,2,3,4,7,8,9-HpCDF	1.41e+07	0.47 y	45:01	0.85	96.6					96.6
13C-OCDF	3.90e+07	0.91 y	50:02	1.17	192					96.0
37Cl-2,3,7,8-TCDD	2.94e+06		27:20	0.97	11.2					112
13C-1,2,3,4-TCDD	2.70e+07	0.74 y	26:45	-	103					
13C-1,2,3,4-TCDF	4.50e+07	0.81 y	25:28	-	97.3					
13C-1,2,3,7,8,9-HxCDD	1.73e+07	1.31 y	39:07	-	84.3					

						Fac	Noise-1	Noise-2	DL		#Hom
Total Tetra-Dioxins	1.61e+07		24:01	1.02	60.0	2.50	-	-	*		23
Total Penta-Dioxins	2.65e+07		30:11	0.96	112	2.50	-	-	*		13
Total Hexa-Dioxins	3.89e+07		36:04	1.36	174	2.50	-	-	*		16
Total Hepta-Dioxins	1.99e+07		42:45	1.17	108	2.50	-	-	*		7
Total Tetra-Furans	2.30e+07		22:59	1.29	43.0	2.50	-	-	*		24
1st Fn. Tot Penta-Furans	1.87e+07		28:22	0.90	57.4	2.50	-	-	*	PeCDF	1
Total Penta-Furans	4.89e+07		30:10	0.90	150	2.50	-	-	*	208	14
Total Hexa-Furans	6.87e+07		35:11	0.99	243	2.50	-	-	*		18
Total Hepta-Furans	2.50e+07		42:14	1.47	105	2.50	-	-	*		15

Analyst: _____ Date: 3/11/10

Frontier Analytical Laboratory - Acquisition Log

Run Name:10MAR10M Instrument: FAL3 GC: DB5 Experiment:PCDD

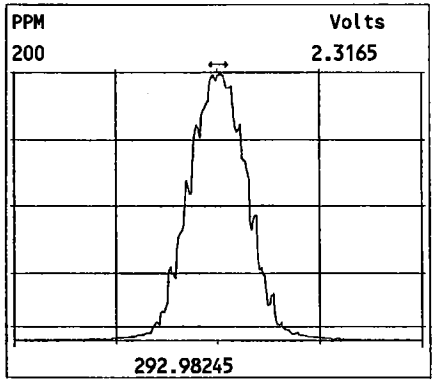
Data File	S	FAL ID	Client ID	Acquired	ConCal	EndCal	Analyst
10MAR10M	1	ST031010M1	1613 CS3 (090918J)	10-MAR-10 13:43:18	ST031010M1	ST031010M2	TC
10MAR10M	2	QC031010M1	QC1	10-MAR-10 14:38:36	ST031010M1	ST031010M2	TC
10MAR10M	3	1959-001-0001-OPR	OPR	10-MAR-10 15:33:55	ST031010M1	ST031010M2	TC
10MAR10M	4	1959-001-0001-MB	Method Blank	10-MAR-10 16:29:14	ST031010M1	ST031010M2	TC
10MAR10M	5	6013-001-0001-SA	Influent 94490	10-MAR-10 17:24:36	ST031010M1	ST031010M2	TC
10MAR10M	6	6013-002-0001-SA	Effluent 94491	10-MAR-10 18:19:58	ST031010M1	ST031010M2	TC
10MAR10M	7	6014-001-0001-SA	Outer Pond	10-MAR-10 19:15:21	ST031010M1	ST031010M2	TC
10MAR10M	8	6011-001-0001-SA	0030104-01	10-MAR-10 20:10:43	ST031010M1	ST031010M2	TC
10MAR10M	9	6011-002-0001-SA	0030104-02	10-MAR-10 21:06:06	ST031010M1	ST031010M2	TC
10MAR10M	10	6011-003-0001-SA	0030104-03	10-MAR-10 22:01:29	ST031010M1	ST031010M2	TC
10MAR10M	11	6012-001-0001-SA	CB31A022710COMP	10-MAR-10 22:56:48	ST031010M1	ST031010M2	TC
10MAR10M	12	6012-002-0001-SA	CB4857022710COMP	10-MAR-10 23:52:03	ST031010M1	ST031010M2	TC
10MAR10M	13	6012-003-0001-SA	CB1022710COMP	11-MAR-10 00:47:26	ST031010M1	ST031010M2	TC
10MAR10M	14	6012-004-0001-SA	CB102022710COMP	11-MAR-10 01:42:44	ST031010M1	ST031010M2	TC
10MAR10M	15	QC031010M2	CC QC	11-MAR-10 02:38:03	ST031010M1	ST031010M2	TC
10MAR10M	16	ST031010M2	1613 CS3 (090918J)	11-MAR-10 03:33:24	ST031010M1	ST031010M2	TC

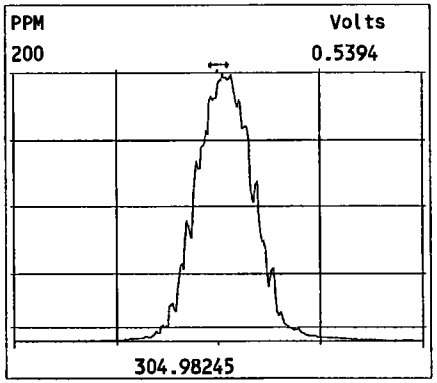
3/11/10

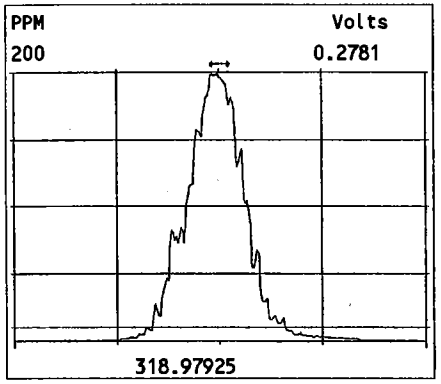
Data Backed Up:_____

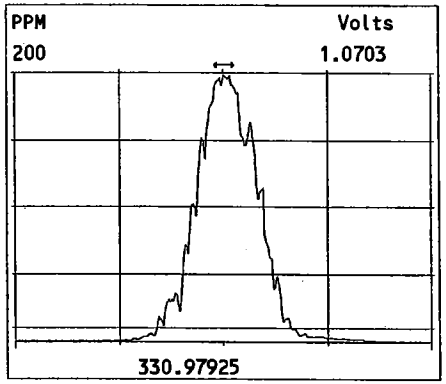
Date:_____

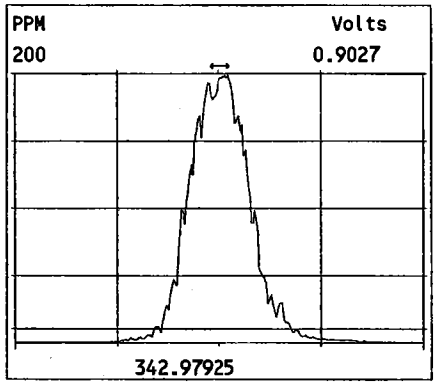
Peak Locate Examination:10-MAR-2010:13:40 File:10MAR10M
Experiment:PCDD Function:1 Reference:PFK

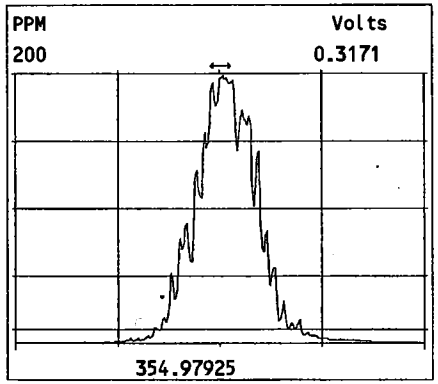


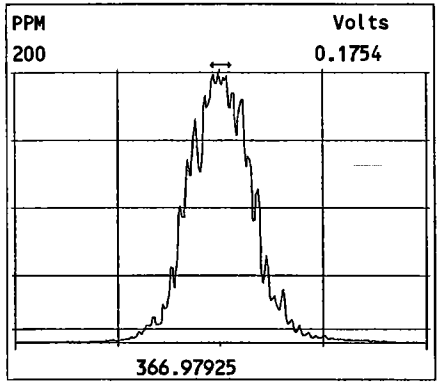


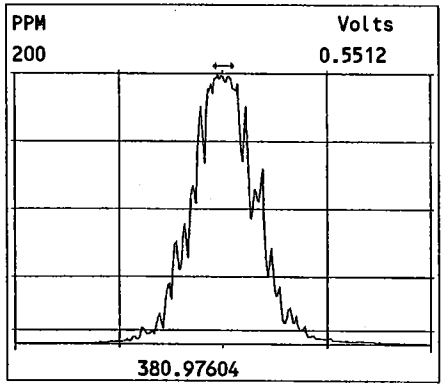


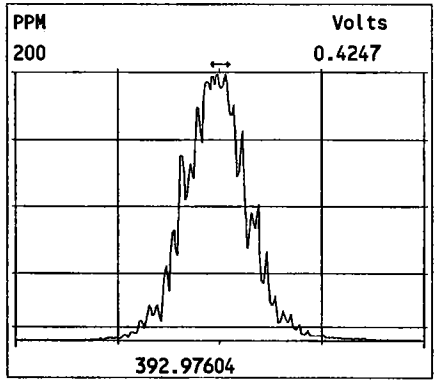


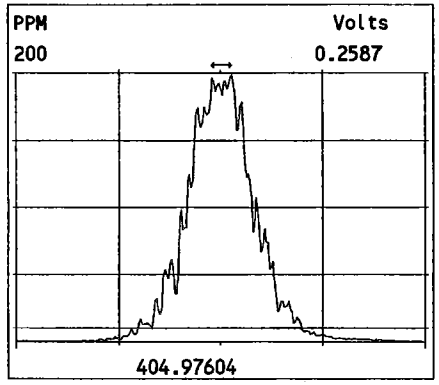


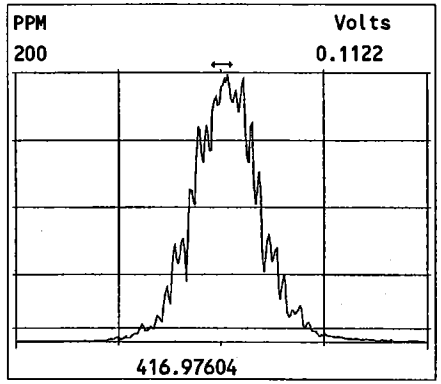




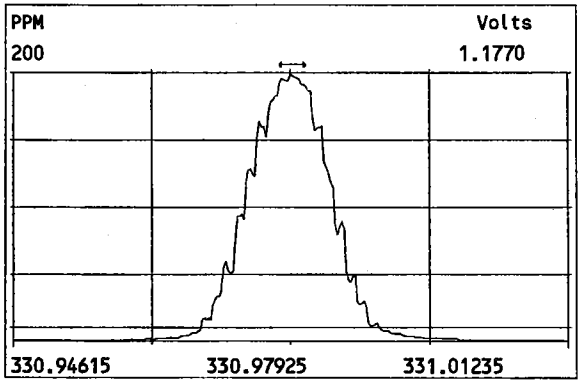


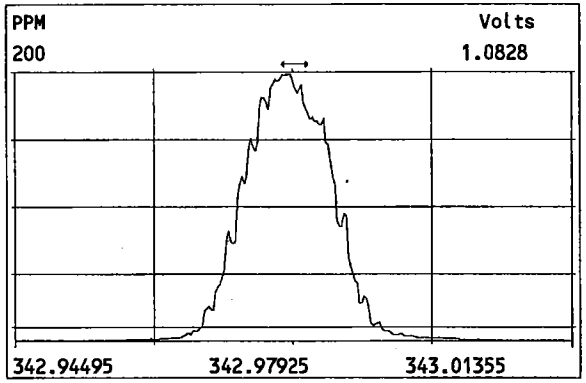


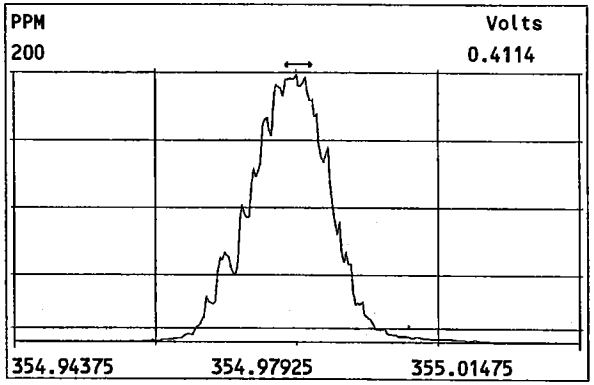


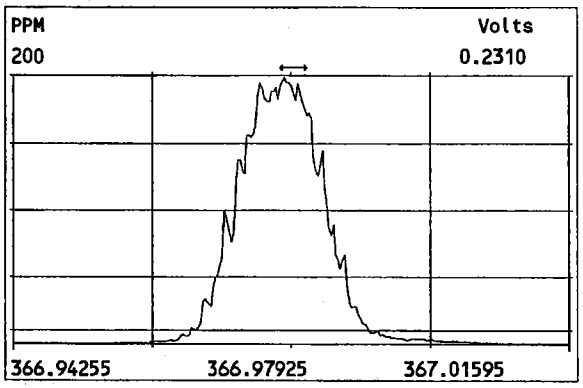


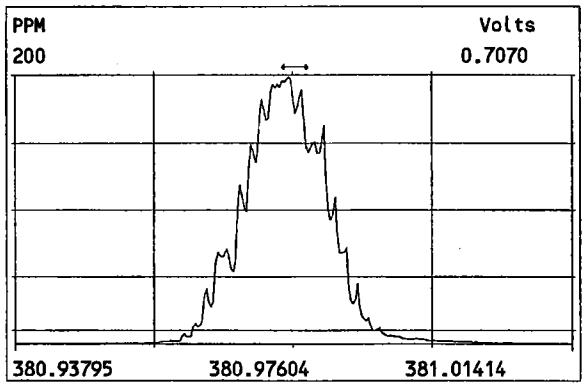
Peak Locate Examination:10-MAR-2010:13:41 File:10MAR10M
Experiment:PCDD Function:2 Reference:PFK

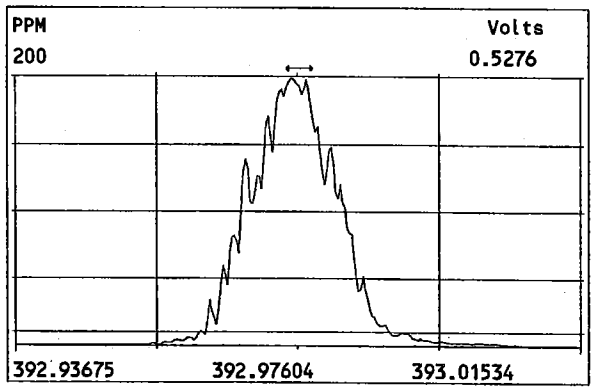


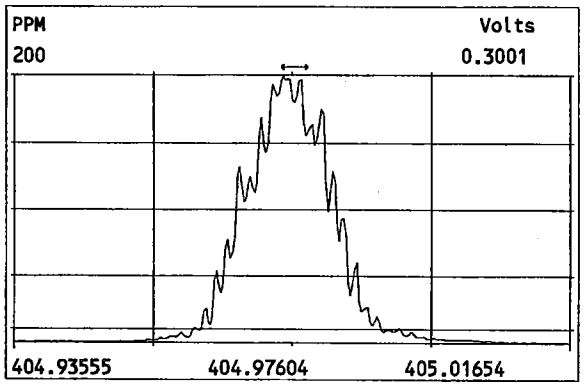


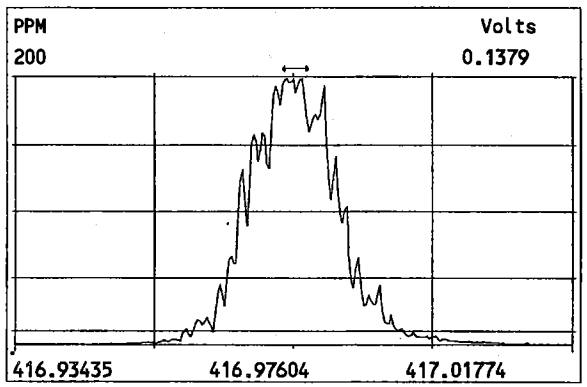






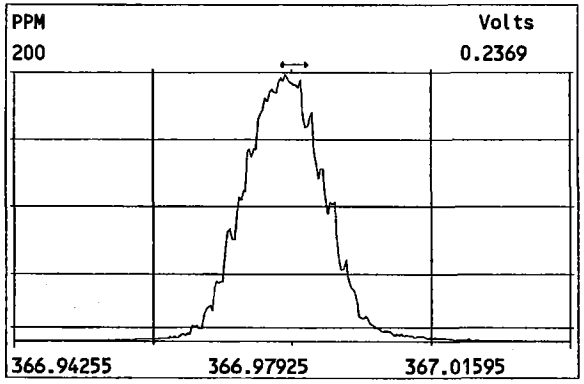


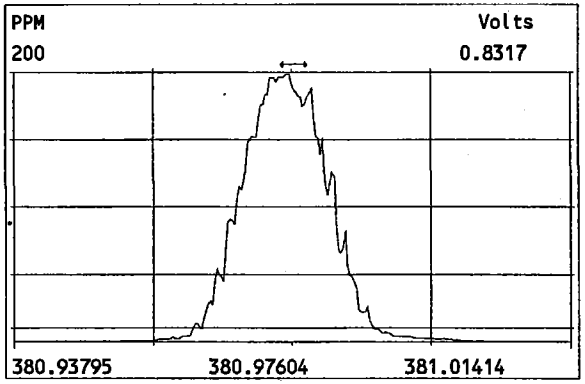


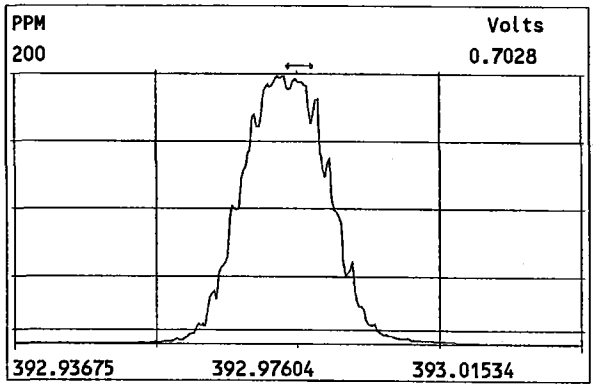


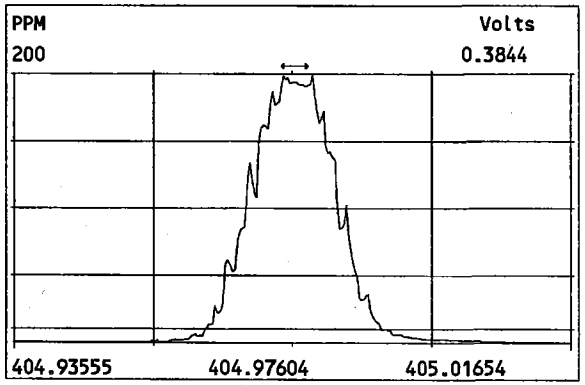
Peak Locate Examination:10-MAR-2010:13:41 File:10MAR10M

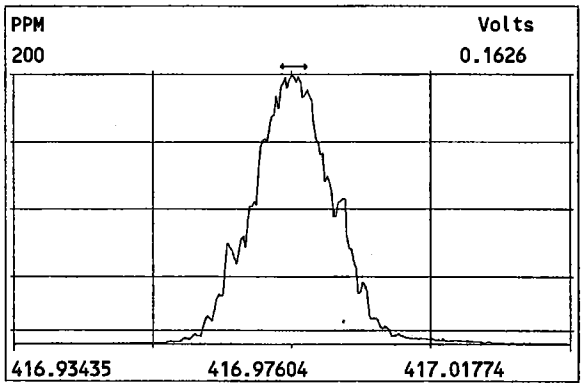
Experiment:PCDD Function:3 Reference:PFK

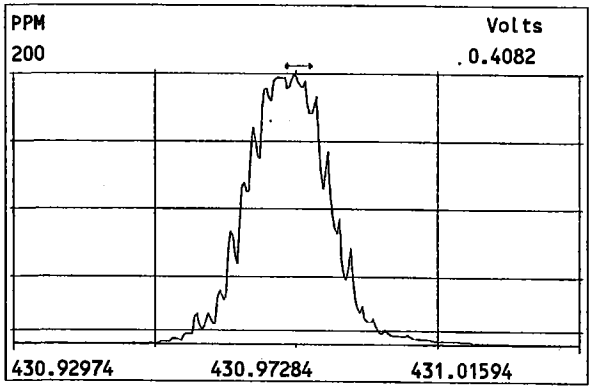


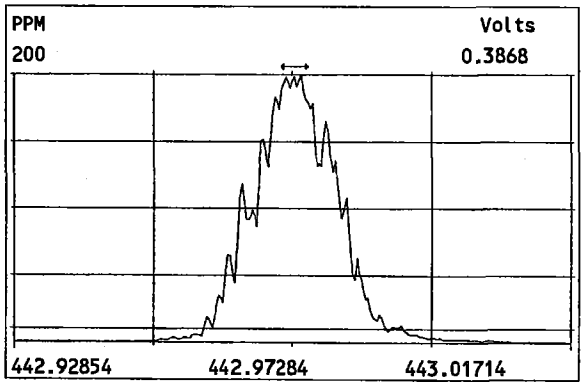


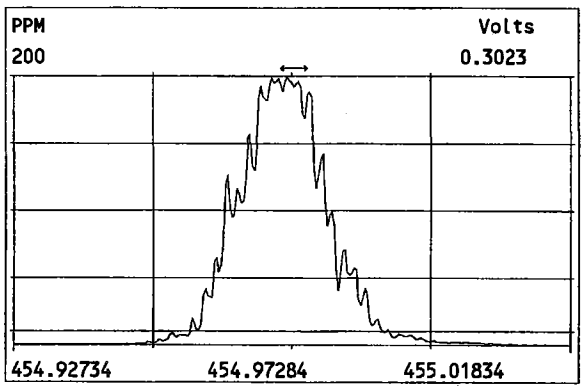




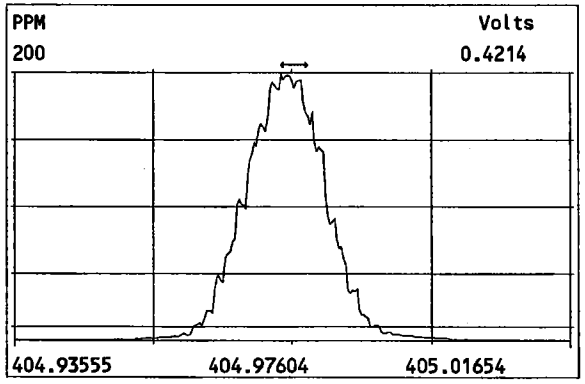


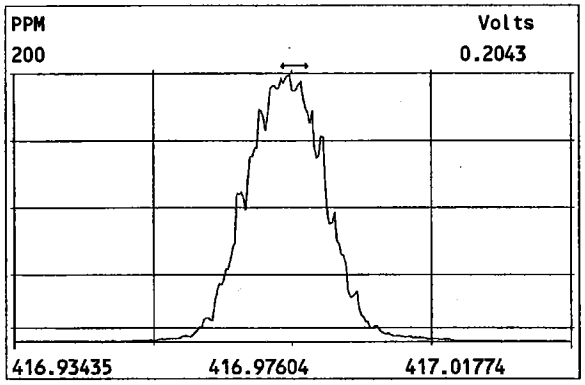


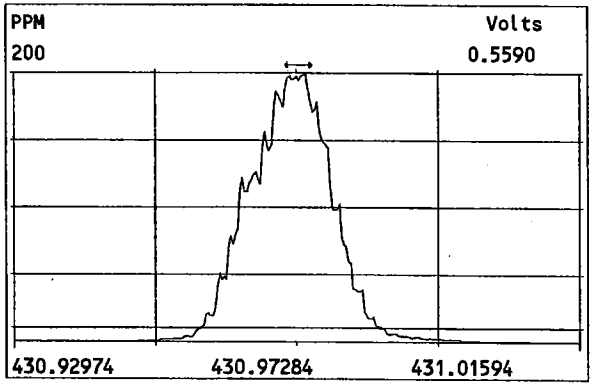


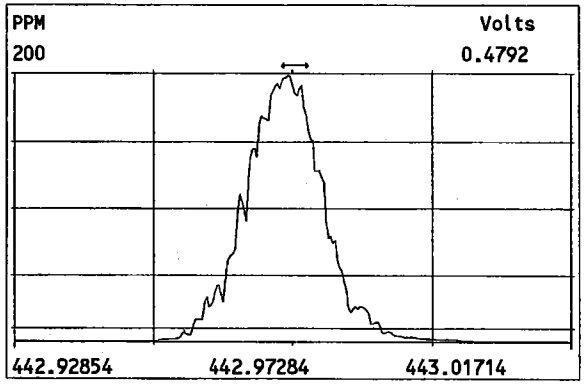


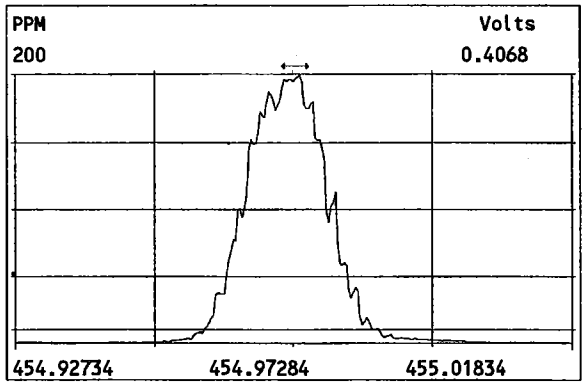
Peak Locate Examination:10-MAR-2010:13:42 File:10MAR10M
Experiment:PCDD Function:4 Reference:PFK

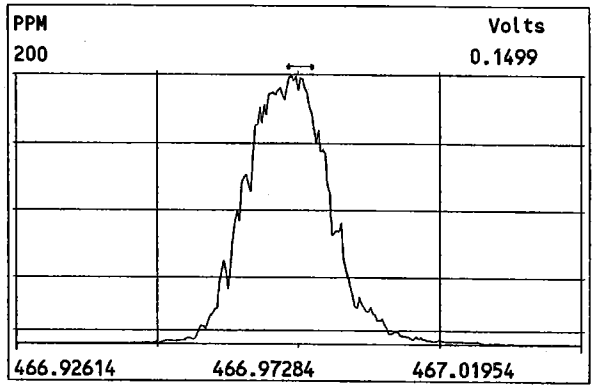


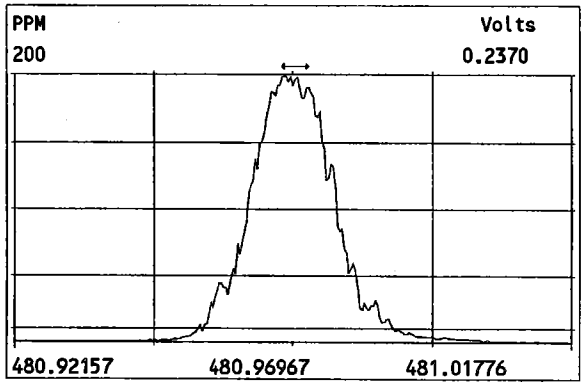




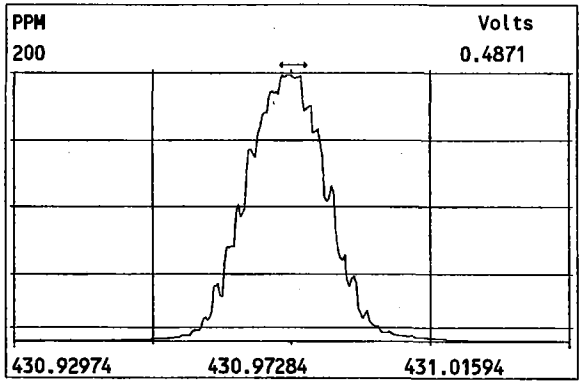


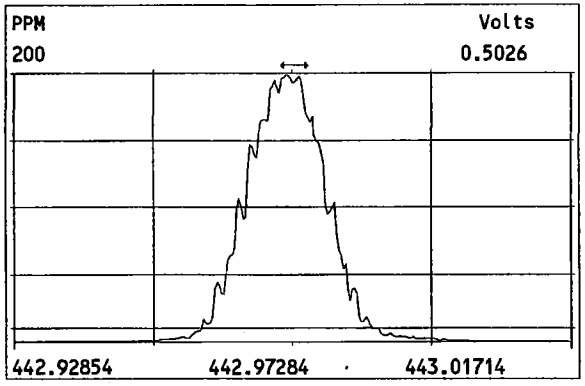


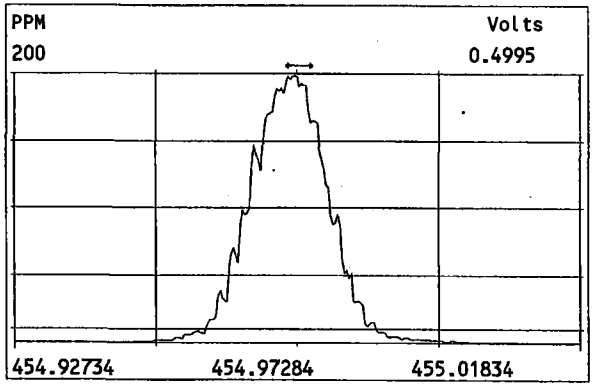


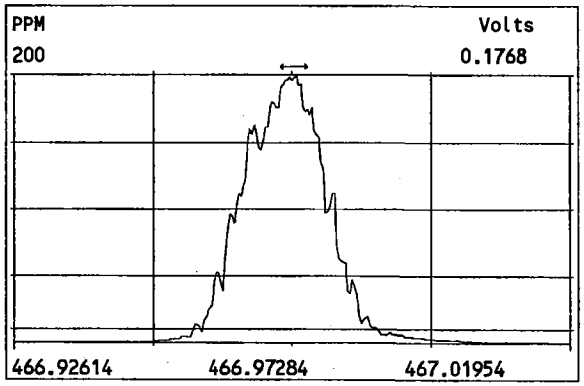


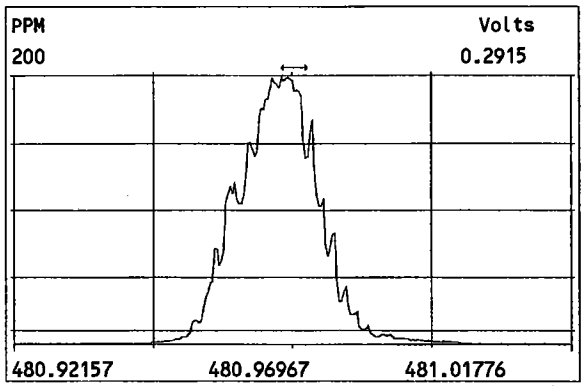
Peak Locate Examination:10-MAR-2010:13:42 File:10MAR10M
Experiment:PCDD Function:5 Reference:PFK

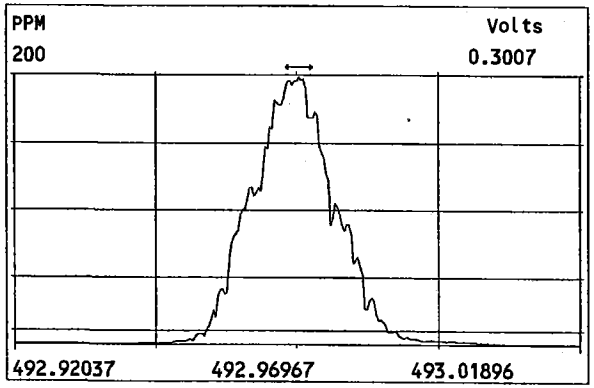


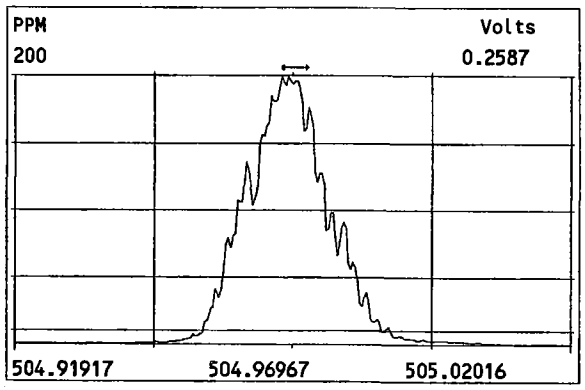


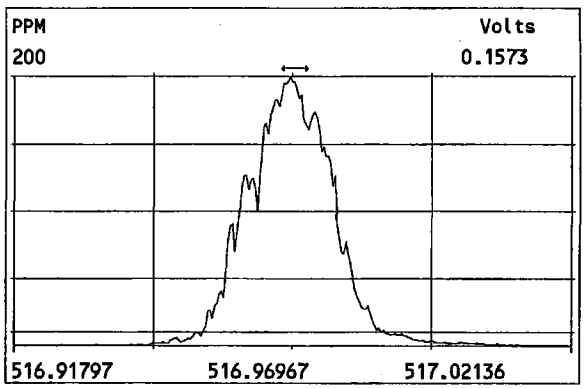




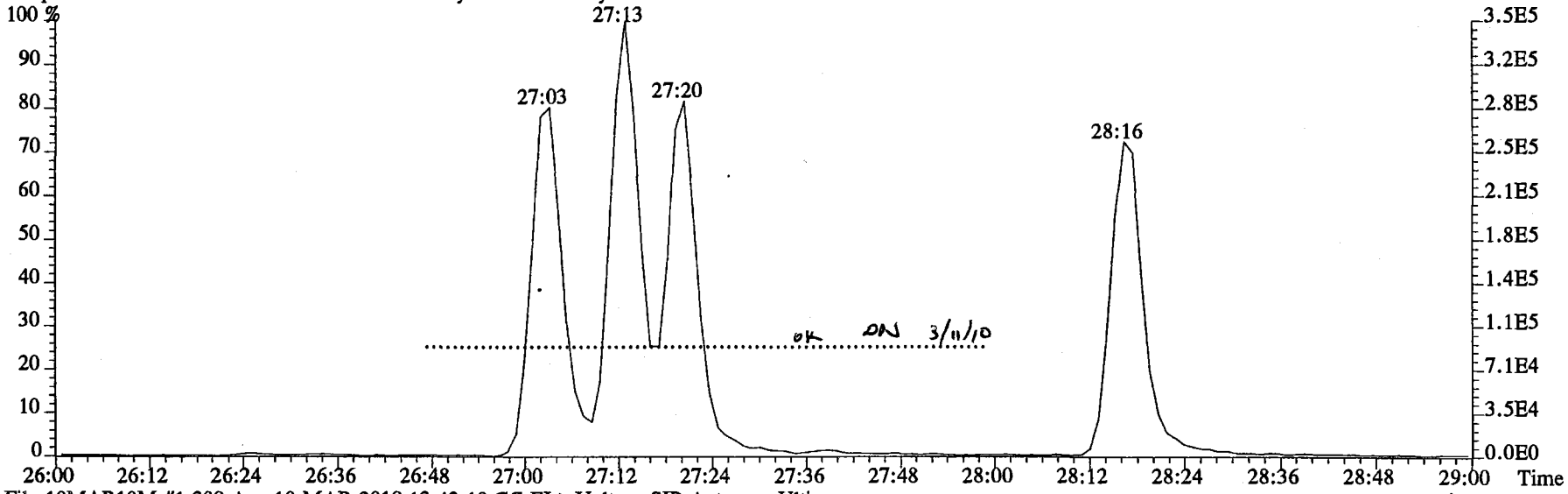




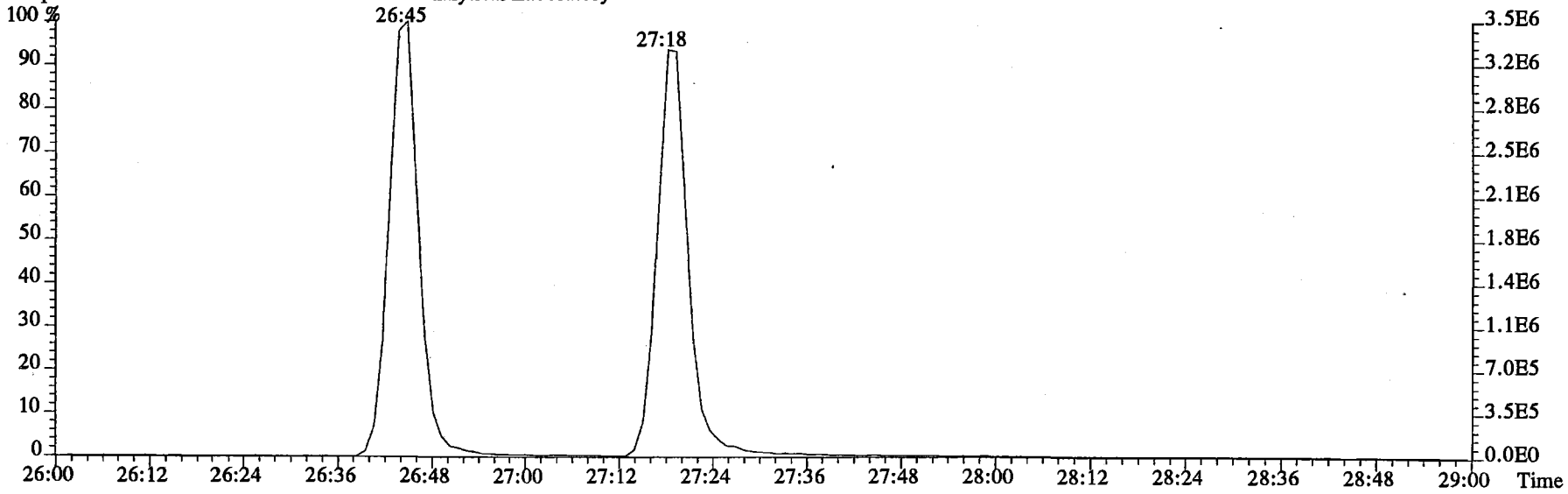




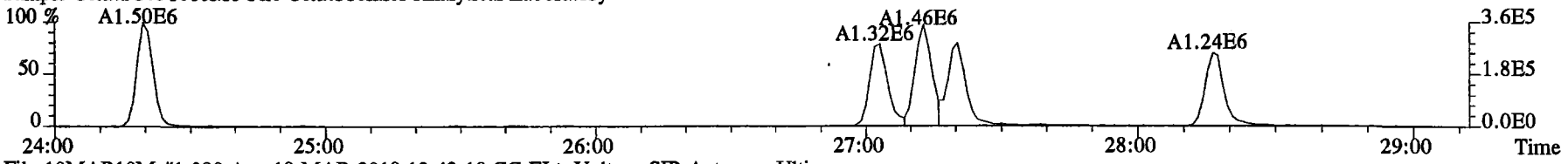
File:10MAR10M #1-390 Acq:10-MAR-2010 13:43:18 GC EI+ Voltage SIR Autospec-Ultima
319.8965 Exp:PCDD
Sample Text:ST031010M1 File Text:Frontier Analytical Laboratory



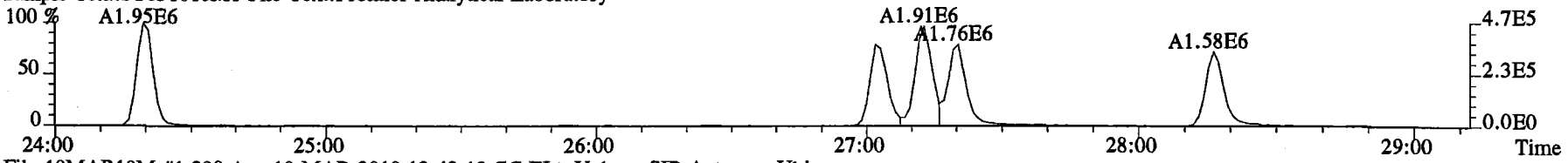
File:10MAR10M #1-390 Acq:10-MAR-2010 13:43:18 GC EI+ Voltage SIR Autospec-Ultima
333.9339 Exp:PCDD
Sample Text:ST031010M1 File Text:Frontier Analytical Laboratory



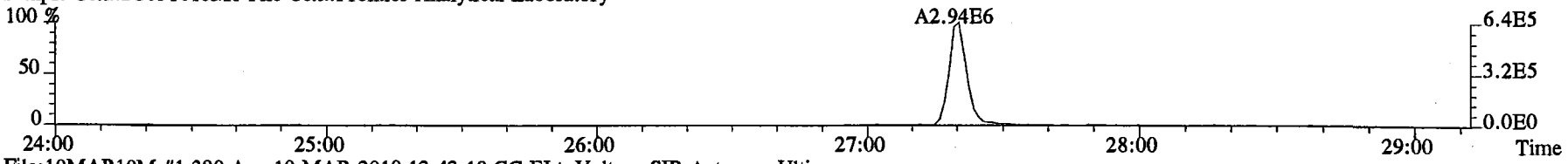
File:10MAR10M #1-390 Acq:10-MAR-2010 13:43:18 GC EI+ Voltage SIR Autospec-Ultima
319.8965 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST031010M1 File Text:Frontier Analytical Laboratory



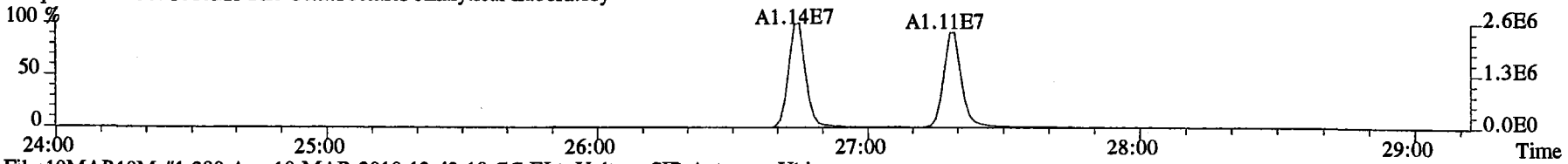
File:10MAR10M #1-390 Acq:10-MAR-2010 13:43:18 GC EI+ Voltage SIR Autospec-Ultima
321.8936 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST031010M1 File Text:Frontier Analytical Laboratory



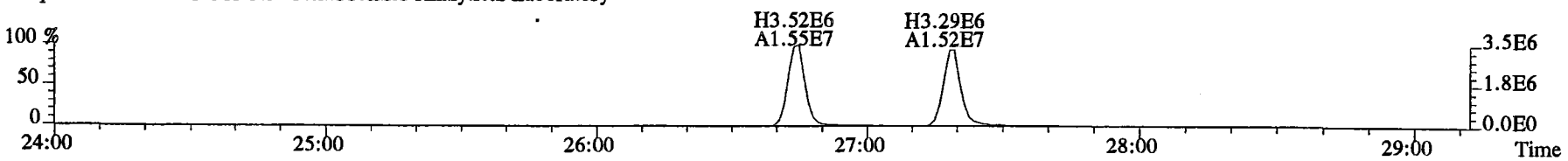
File:10MAR10M #1-390 Acq:10-MAR-2010 13:43:18 GC EI+ Voltage SIR Autospec-Ultima
327.8847 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST031010M1 File Text:Frontier Analytical Laboratory



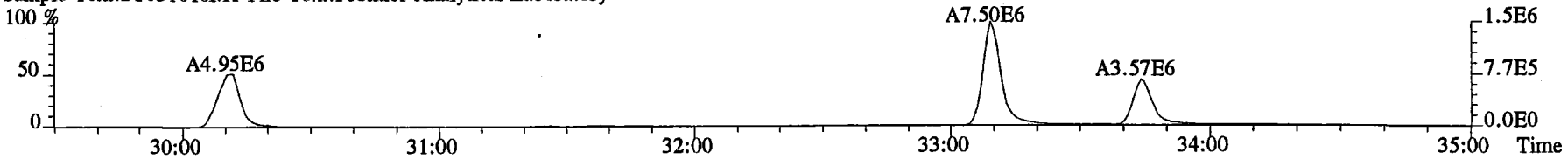
File:10MAR10M #1-390 Acq:10-MAR-2010 13:43:18 GC EI+ Voltage SIR Autospec-Ultima
331.9368 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST031010M1 File Text:Frontier Analytical Laboratory



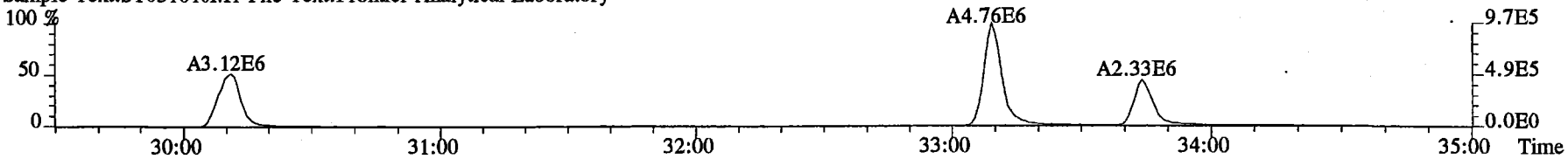
File:10MAR10M #1-390 Acq:10-MAR-2010 13:43:18 GC EI+ Voltage SIR Autospec-Ultima
333.9339 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST031010M1 File Text:Frontier Analytical Laboratory



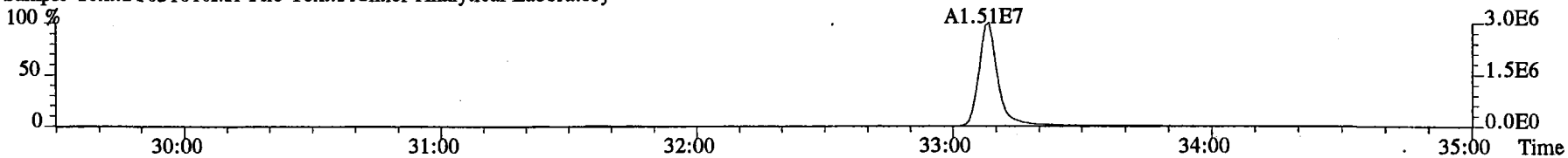
File:10MAR10M #1-425 Acq:10-MAR-2010 13:43:18 GC EI+ Voltage SIR Autospec-Ultima
355.8546 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST031010M1 File Text:Frontier Analytical Laboratory



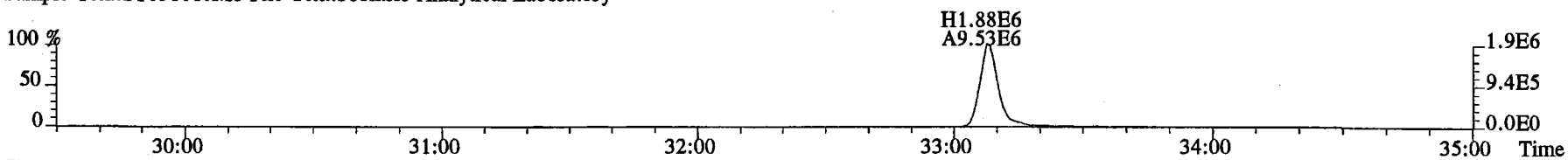
File:10MAR10M #1-425 Acq:10-MAR-2010 13:43:18 GC EI+ Voltage SIR Autospec-Ultima
357.8517 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST031010M1 File Text:Frontier Analytical Laboratory



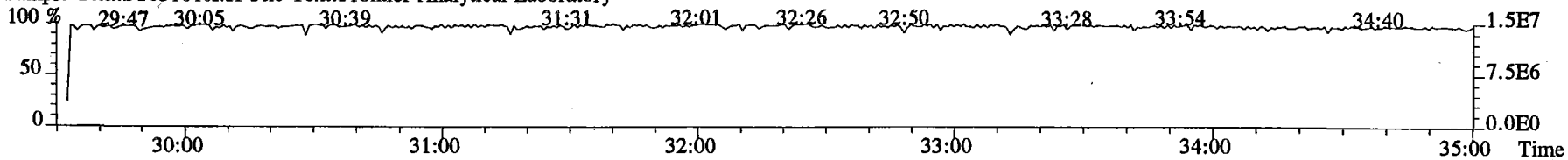
File:10MAR10M #1-425 Acq:10-MAR-2010 13:43:18 GC EI+ Voltage SIR Autospec-Ultima
367.8949 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST031010M1 File Text:Frontier Analytical Laboratory



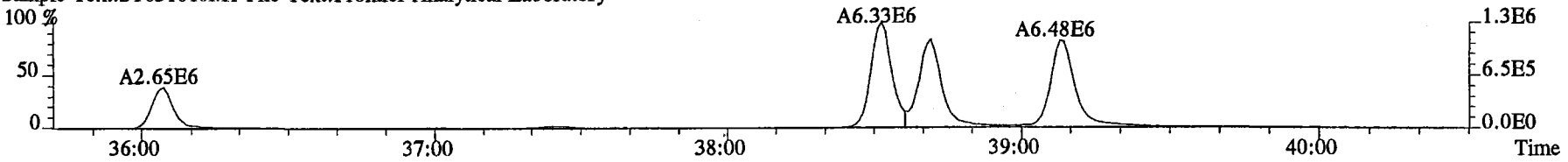
File:10MAR10M #1-425 Acq:10-MAR-2010 13:43:18 GC EI+ Voltage SIR Autospec-Ultima
369.8919 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST031010M1 File Text:Frontier Analytical Laboratory



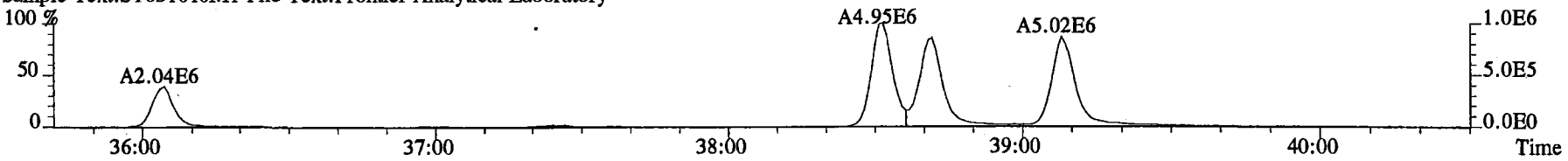
File:10MAR10M #1-425 Acq:10-MAR-2010 13:43:18 GC EI+ Voltage SIR Autospec-Ultima
366.9792 F:2 Exp:PCDD
Sample Text:ST031010M1 File Text:Frontier Analytical Laboratory



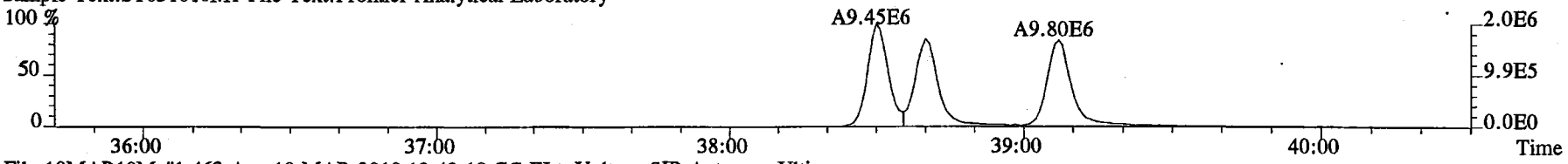
File:10MAR10M #1-463 Acq:10-MAR-2010 13:43:18 GC EI+ Voltage SIR Autospec-Ultima
389.8156 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST031010M1 File Text:Frontier Analytical Laboratory



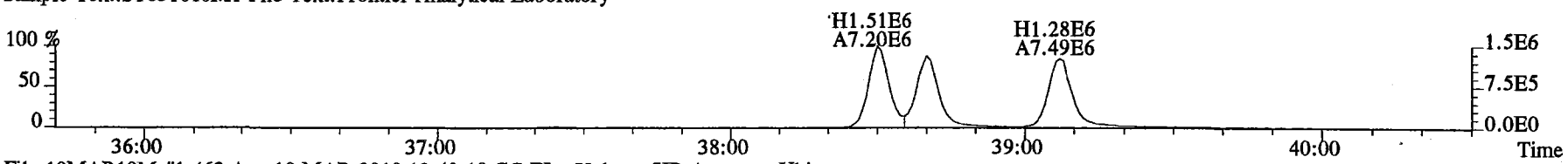
File:10MAR10M #1-463 Acq:10-MAR-2010 13:43:18 GC EI+ Voltage SIR Autospec-Ultima
391.8127 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST031010M1 File Text:Frontier Analytical Laboratory



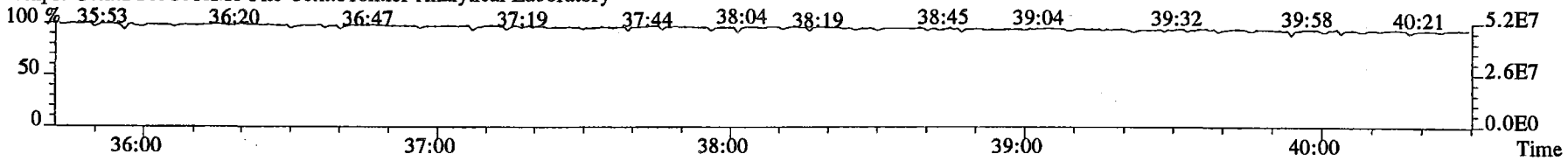
File:10MAR10M #1-463 Acq:10-MAR-2010 13:43:18 GC EI+ Voltage SIR Autospec-Ultima
401.8559 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST031010M1 File Text:Frontier Analytical Laboratory



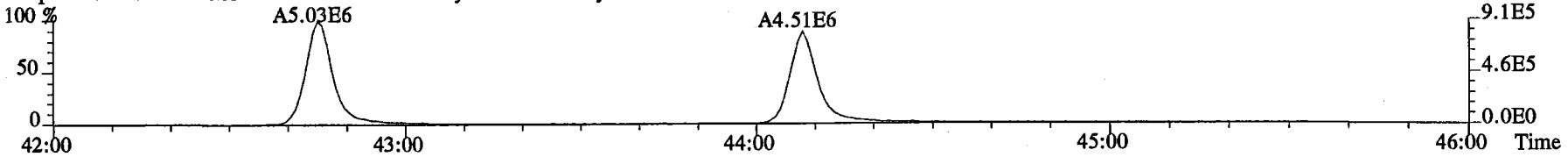
File:10MAR10M #1-463 Acq:10-MAR-2010 13:43:18 GC EI+ Voltage SIR Autospec-Ultima
403.8530 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST031010M1 File Text:Frontier Analytical Laboratory



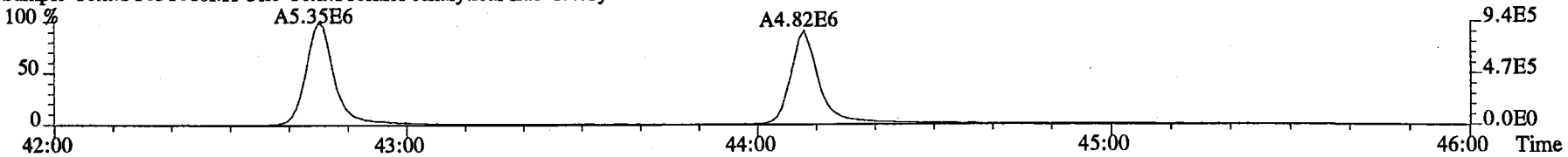
File:10MAR10M #1-463 Acq:10-MAR-2010 13:43:18 GC EI+ Voltage SIR Autospec-Ultima
380.9760 F:3 Exp:PCDD
Sample Text:ST031010M1 File Text:Frontier Analytical Laboratory



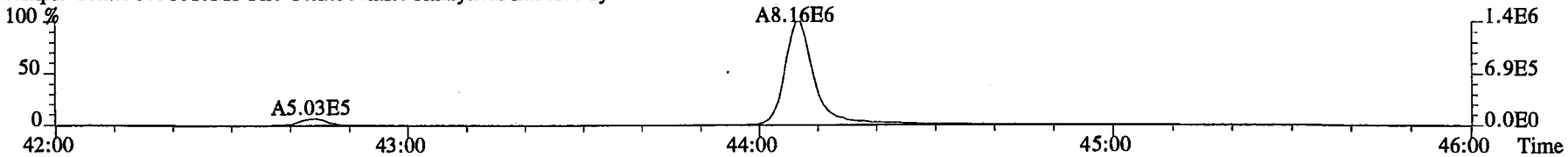
File:10MAR10M #1-541 Acq:10-MAR-2010 13:43:18 GC EI+ Voltage SIR Autospec-Ultima
423.7767 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST031010M1 File Text:Frontier Analytical Laboratory



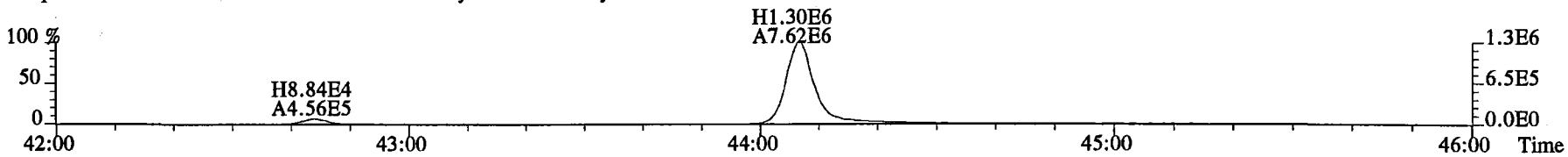
File:10MAR10M #1-541 Acq:10-MAR-2010 13:43:18 GC EI+ Voltage SIR Autospec-Ultima
425.7737 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST031010M1 File Text:Frontier Analytical Laboratory



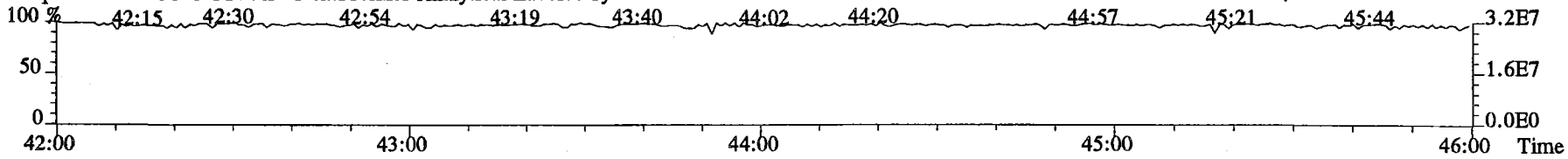
File:10MAR10M #1-541 Acq:10-MAR-2010 13:43:18 GC EI+ Voltage SIR Autospec-Ultima
435.8169 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST031010M1 File Text:Frontier Analytical Laboratory



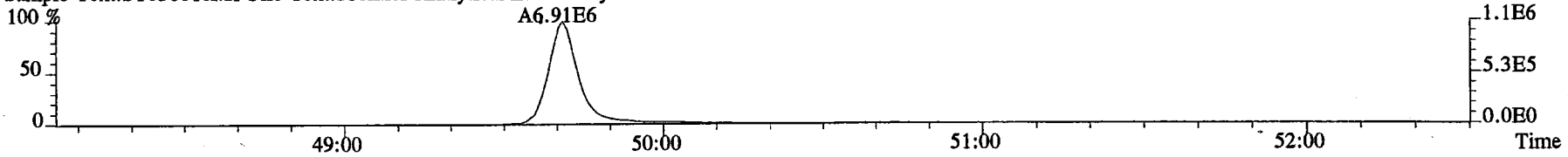
File:10MAR10M #1-541 Acq:10-MAR-2010 13:43:18 GC EI+ Voltage SIR Autospec-Ultima
437.8140 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST031010M1 File Text:Frontier Analytical Laboratory



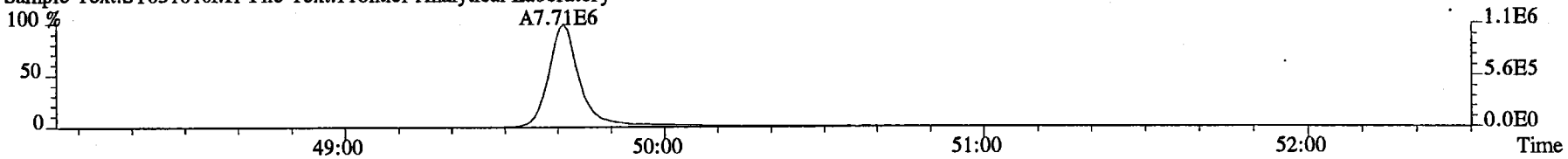
File:10MAR10M #1-541 Acq:10-MAR-2010 13:43:18 GC EI+ Voltage SIR Autospec-Ultima
430.9728 F:4 Exp:PCDD
Sample Text:ST031010M1 File Text:Frontier Analytical Laboratory



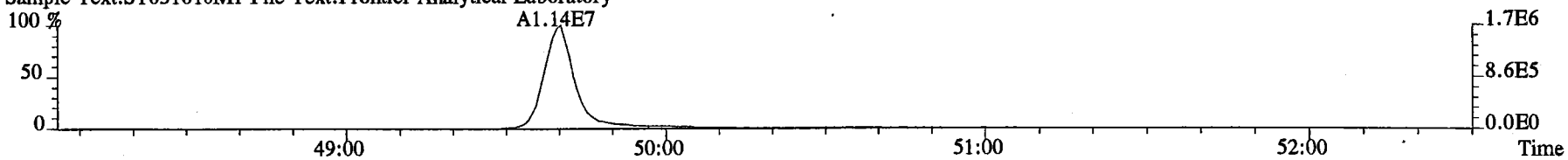
File:10MAR10M #1-348 Acq:10-MAR-2010 13:43:18 GC EI+ Voltage SIR Autospec-Ultima
457.7377 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST031010M1 File Text:Frontier Analytical Laboratory



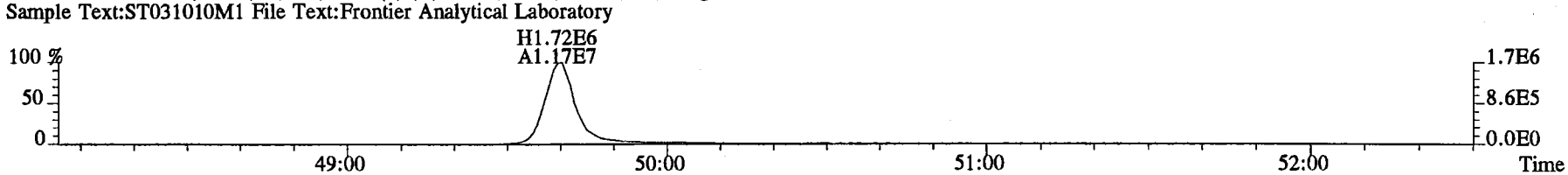
File:10MAR10M #1-348 Acq:10-MAR-2010 13:43:18 GC EI+ Voltage SIR Autospec-Ultima
459.7348 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST031010M1 File Text:Frontier Analytical Laboratory



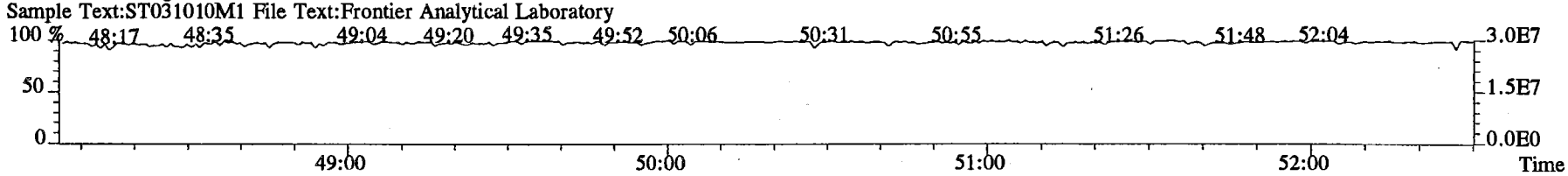
File:10MAR10M #1-348 Acq:10-MAR-2010 13:43:18 GC EI+ Voltage SIR Autospec-Ultima
469.7780 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST031010M1 File Text:Frontier Analytical Laboratory



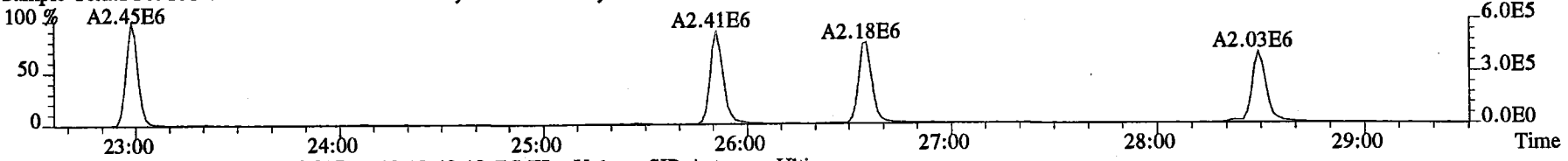
File:10MAR10M #1-348 Acq:10-MAR-2010 13:43:18 GC EI+ Voltage SIR Autospec-Ultima
471.7750 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST031010M1 File Text:Frontier Analytical Laboratory



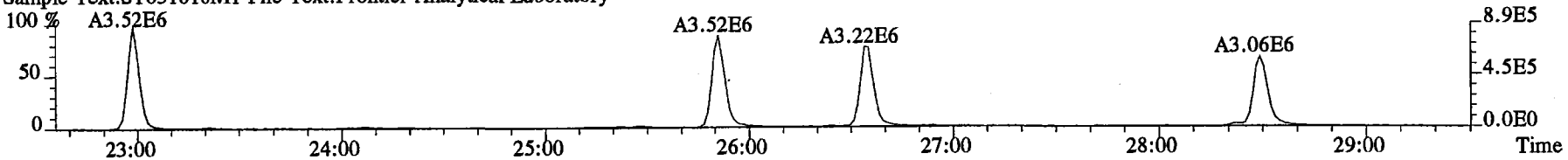
File:10MAR10M #1-348 Acq:10-MAR-2010 13:43:18 GC EI+ Voltage SIR Autospec-Ultima
454.9728 F:5 Exp:PCDD
Sample Text:ST031010M1 File Text:Frontier Analytical Laboratory



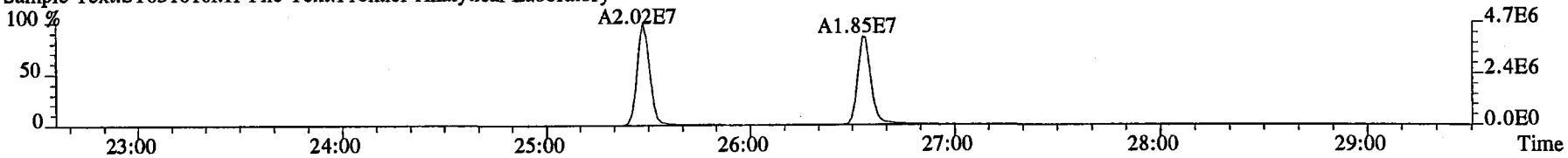
File:10MAR10M #1-390 Acq:10-MAR-2010 13:43:18 GC EI+ Voltage SIR Autospec-Ultima
303.9016 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST031010M1 File Text:Frontier Analytical Laboratory



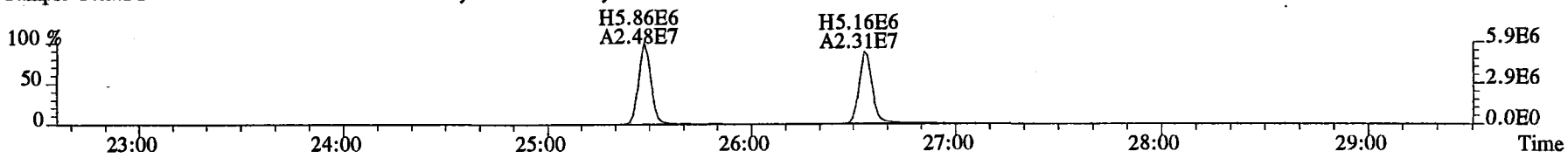
File:10MAR10M #1-390 Acq:10-MAR-2010 13:43:18 GC EI+ Voltage SIR Autospec-Ultima
305.8987 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST031010M1 File Text:Frontier Analytical Laboratory



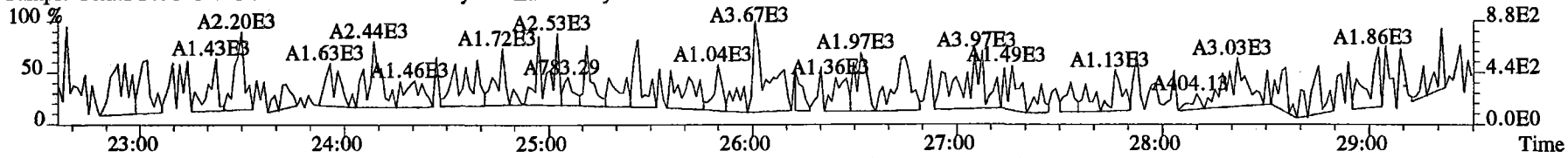
File:10MAR10M #1-390 Acq:10-MAR-2010 13:43:18 GC EI+ Voltage SIR Autospec-Ultima
315.9419 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST031010M1 File Text:Frontier Analytical Laboratory



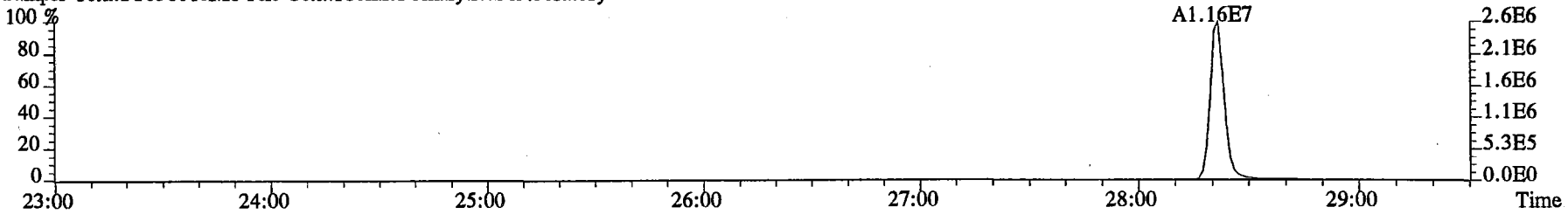
File:10MAR10M #1-390 Acq:10-MAR-2010 13:43:18 GC EI+ Voltage SIR Autospec-Ultima
317.9389 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST031010M1 File Text:Frontier Analytical Laboratory



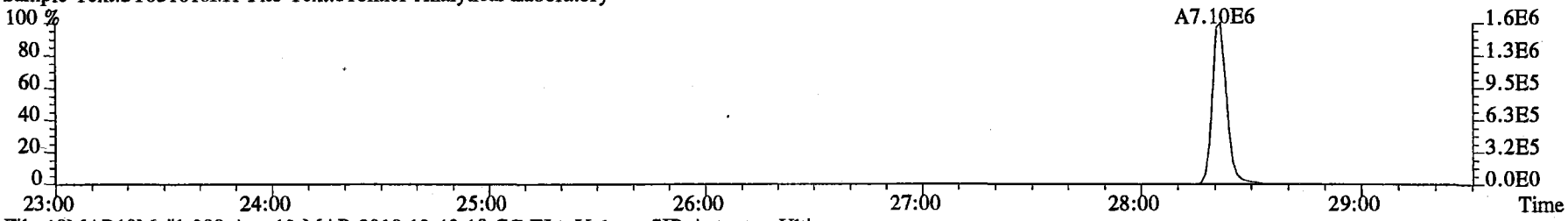
File:10MAR10M #1-390 Acq:10-MAR-2010 13:43:18 GC EI+ Voltage SIR Autospec-Ultima
375.8364 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST031010M1 File Text:Frontier Analytical Laboratory



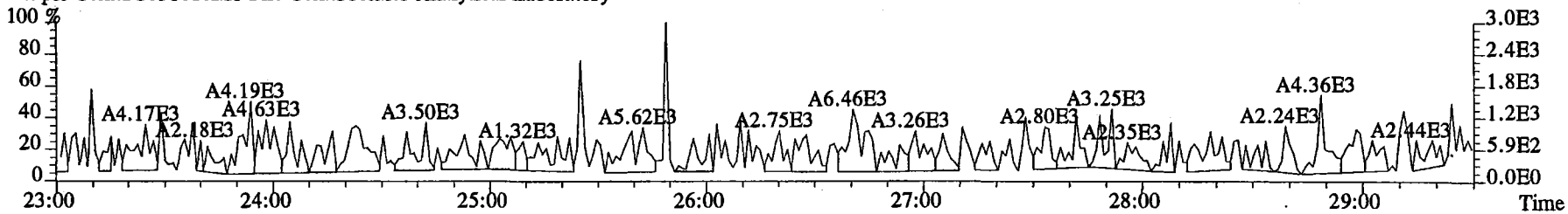
File:10MAR10M #1-390 Acq:10-MAR-2010 13:43:18 GC EI+ Voltage SIR Autospec-Ultima
339.8597 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST031010M1 File Text:Frontier Analytical Laboratory



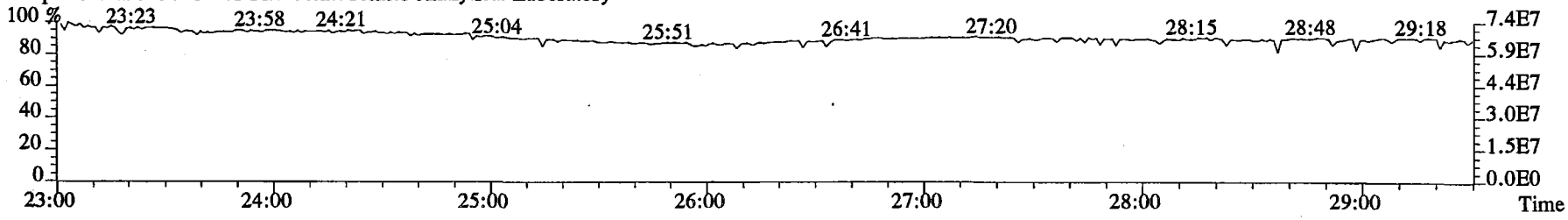
File:10MAR10M #1-390 Acq:10-MAR-2010 13:43:18 GC EI+ Voltage SIR Autospec-Ultima
341.8568 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST031010M1 File Text:Frontier Analytical Laboratory



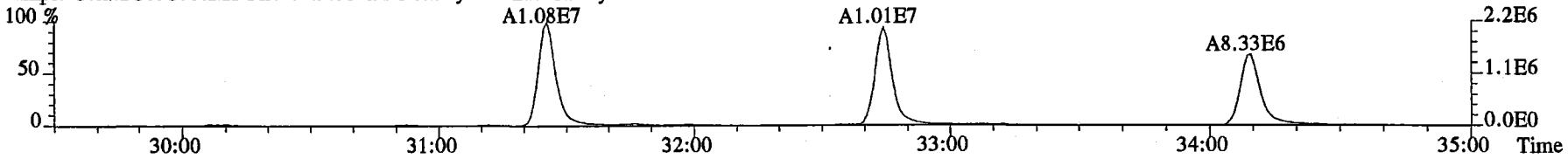
File:10MAR10M #1-390 Acq:10-MAR-2010 13:43:18 GC EI+ Voltage SIR Autospec-Ultima
409.7974 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST031010M1 File Text:Frontier Analytical Laboratory



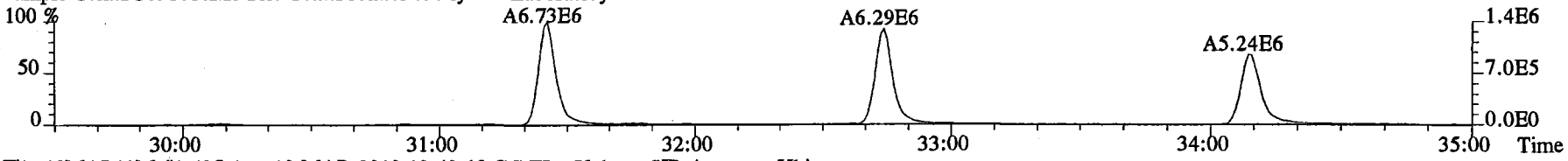
File:10MAR10M #1-390 Acq:10-MAR-2010 13:43:18 GC EI+ Voltage SIR Autospec-Ultima
330.9792 Exp:PCDD
Sample Text:ST031010M1 File Text:Frontier Analytical Laboratory



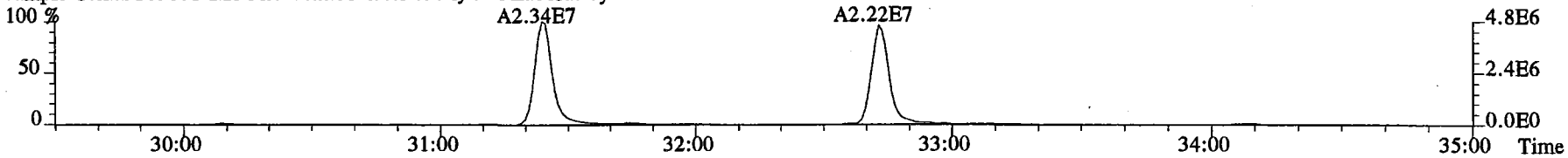
File:10MAR10M #1-425 Acq:10-MAR-2010 13:43:18 GC EI+ Voltage SIR Autospec-Ultima
339.8597 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST031010M1 File Text:Frontier Analytical Laboratory



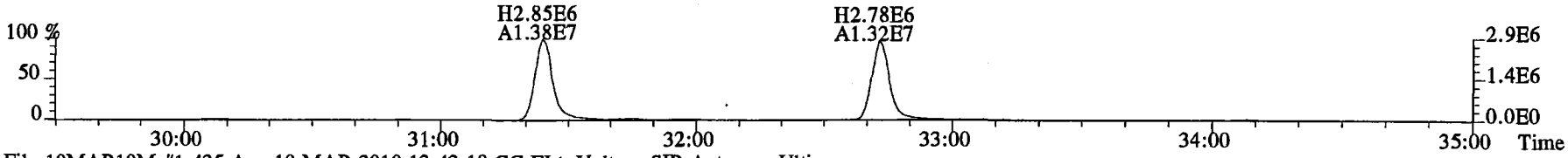
File:10MAR10M #1-425 Acq:10-MAR-2010 13:43:18 GC EI+ Voltage SIR Autospec-Ultima
341.8568 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST031010M1 File Text:Frontier Analytical Laboratory



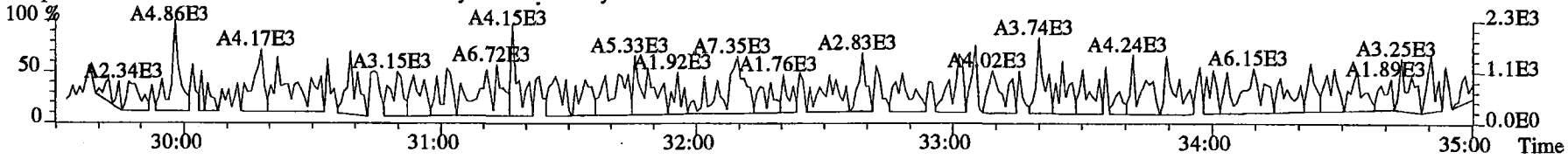
File:10MAR10M #1-425 Acq:10-MAR-2010 13:43:18 GC EI+ Voltage SIR Autospec-Ultima
351.9000 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST031010M1 File Text:Frontier Analytical Laboratory



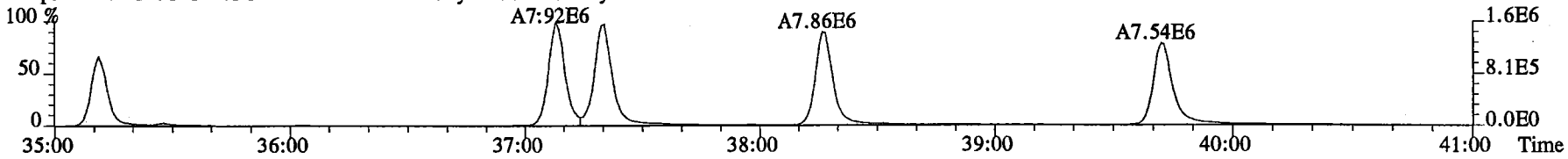
File:10MAR10M #1-425 Acq:10-MAR-2010 13:43:18 GC EI+ Voltage SIR Autospec-Ultima
353.8970 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST031010M1 File Text:Frontier Analytical Laboratory



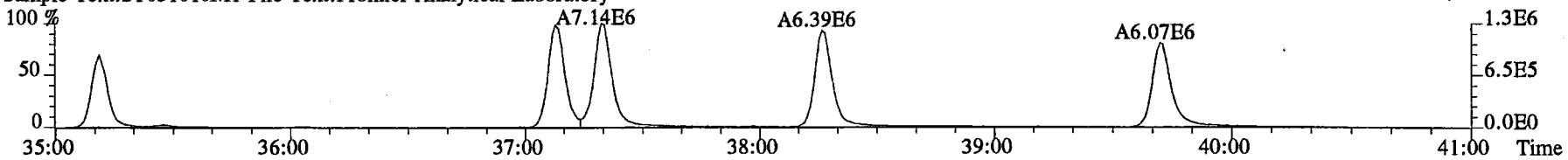
File:10MAR10M #1-425 Acq:10-MAR-2010 13:43:18 GC EI+ Voltage SIR Autospec-Ultima
409.7974 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST031010M1 File Text:Frontier Analytical Laboratory



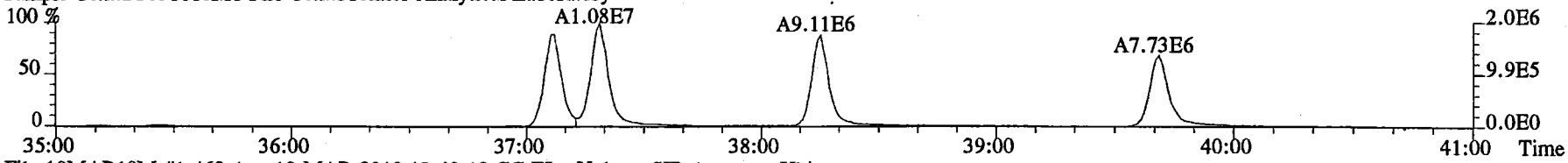
File:10MAR10M #1-463 Acq:10-MAR-2010 13:43:18 GC EI+ Voltage SIR Autospec-Ultima
373.8207 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST031010M1 File Text:Frontier Analytical Laboratory



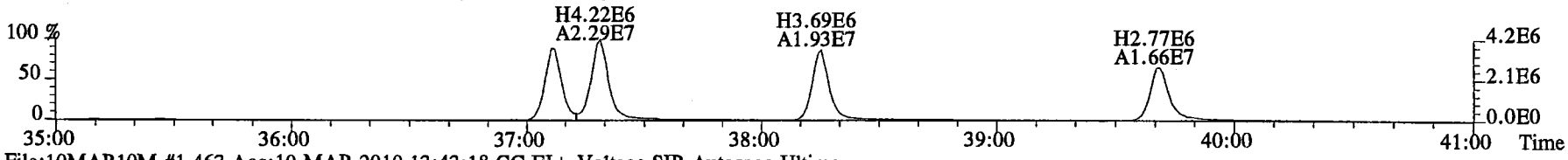
File:10MAR10M #1-463 Acq:10-MAR-2010 13:43:18 GC EI+ Voltage SIR Autospec-Ultima
375.8178 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST031010M1 File Text:Frontier Analytical Laboratory



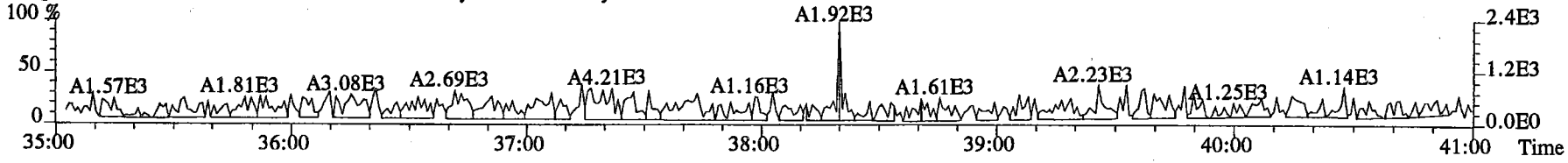
File:10MAR10M #1-463 Acq:10-MAR-2010 13:43:18 GC EI+ Voltage SIR Autospec-Ultima
383.8639 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST031010M1 File Text:Frontier Analytical Laboratory



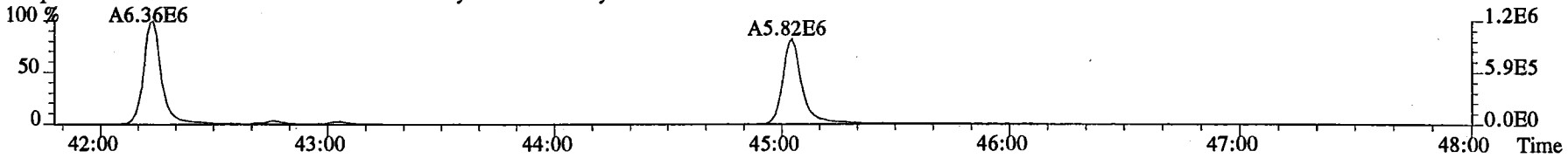
File:10MAR10M #1-463 Acq:10-MAR-2010 13:43:18 GC EI+ Voltage SIR Autospec-Ultima
385.8610 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST031010M1 File Text:Frontier Analytical Laboratory



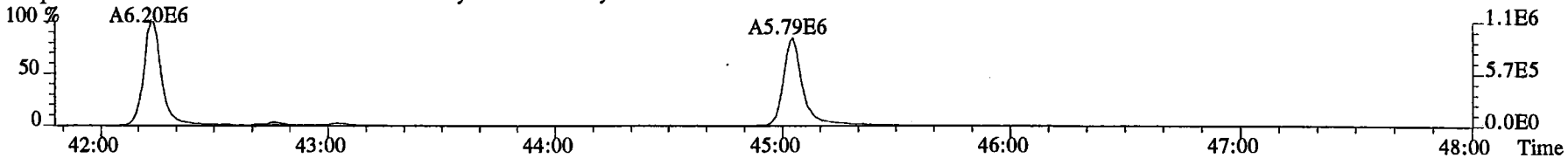
File:10MAR10M #1-463 Acq:10-MAR-2010 13:43:18 GC EI+ Voltage SIR Autospec-Ultima
445.7555 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST031010M1 File Text:Frontier Analytical Laboratory



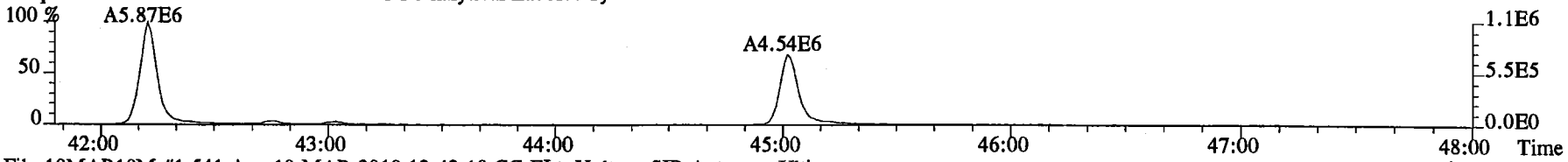
File:10MAR10M #1-541 Acq:10-MAR-2010 13:43:18 GC EI+ Voltage SIR Autospec-Ultima
407.7818 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST031010M1 File Text:Frontier Analytical Laboratory



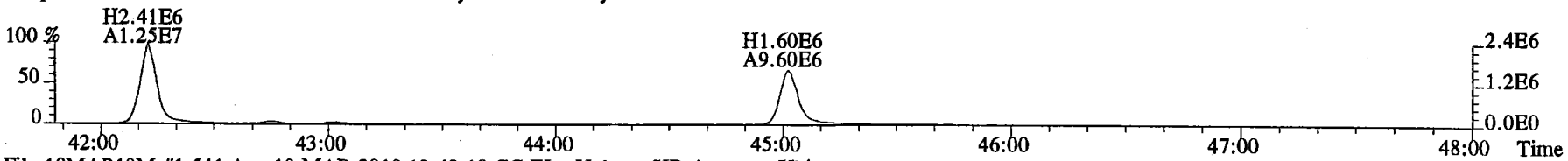
File:10MAR10M #1-541 Acq:10-MAR-2010 13:43:18 GC EI+ Voltage SIR Autospec-Ultima
409.7788 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST031010M1 File Text:Frontier Analytical Laboratory



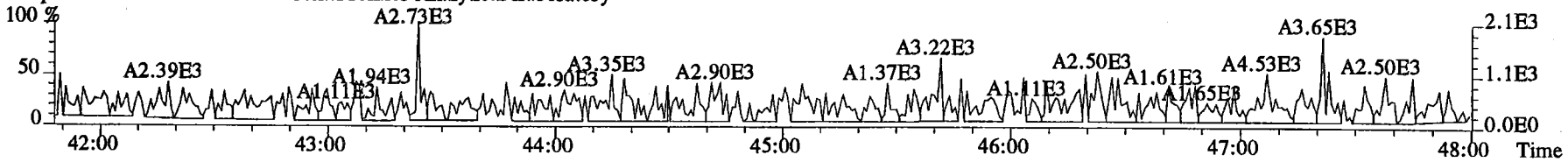
File:10MAR10M #1-541 Acq:10-MAR-2010 13:43:18 GC EI+ Voltage SIR Autospec-Ultima
417.8253 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST031010M1 File Text:Frontier Analytical Laboratory



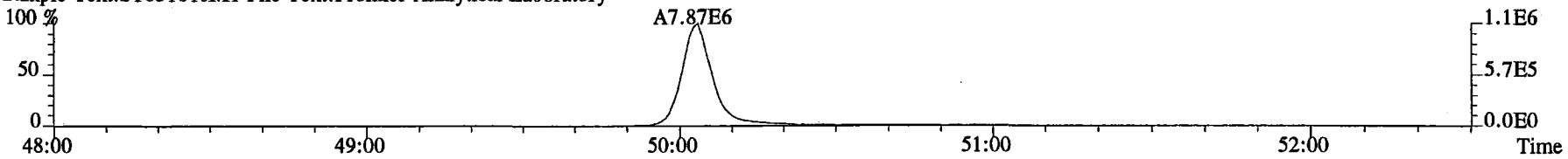
File:10MAR10M #1-541 Acq:10-MAR-2010 13:43:18 GC EI+ Voltage SIR Autospec-Ultima
419.8220 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST031010M1 File Text:Frontier Analytical Laboratory



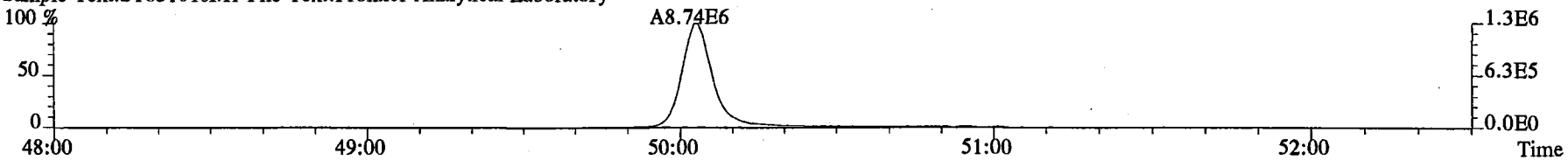
File:10MAR10M #1-541 Acq:10-MAR-2010 13:43:18 GC EI+ Voltage SIR Autospec-Ultima
479.7165 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST031010M1 File Text:Frontier Analytical Laboratory



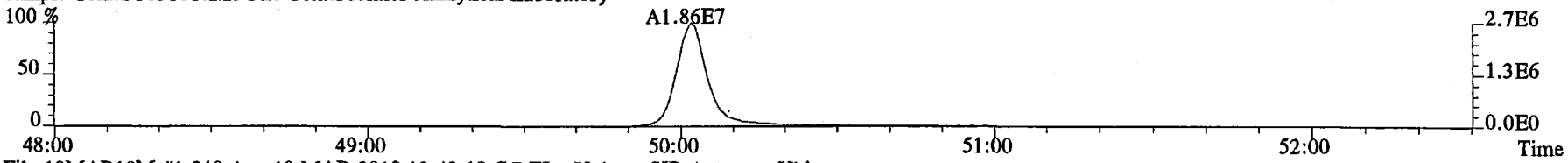
File:10MAR10M #1-348 Acq:10-MAR-2010 13:43:18 GC EI+ Voltage SIR Autospec-Ultima
441.7428 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST031010M1 File Text:Frontier Analytical Laboratory



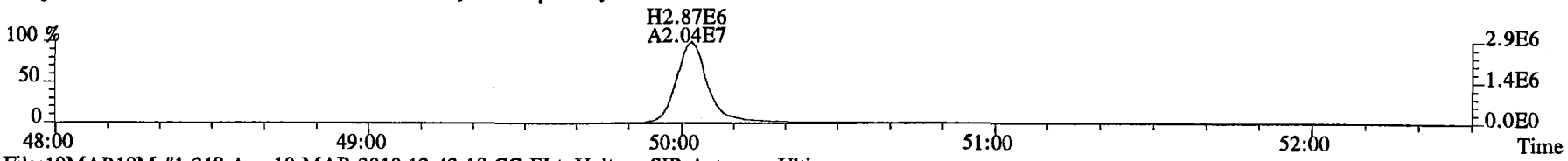
File:10MAR10M #1-348 Acq:10-MAR-2010 13:43:18 GC EI+ Voltage SIR Autospec-Ultima
443.7398 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST031010M1 File Text:Frontier Analytical Laboratory



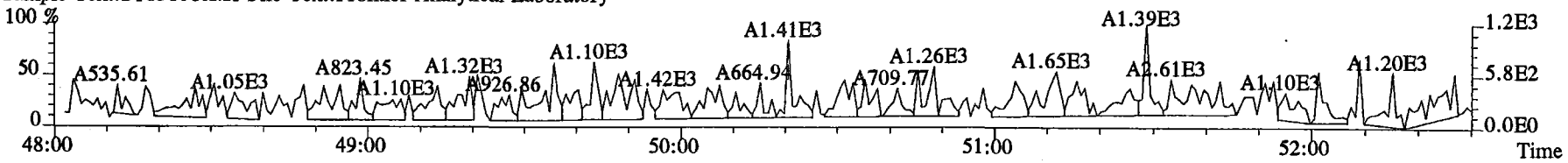
File:10MAR10M #1-348 Acq:10-MAR-2010 13:43:18 GC EI+ Voltage SIR Autospec-Ultima
453.7831 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST031010M1 File Text:Frontier Analytical Laboratory



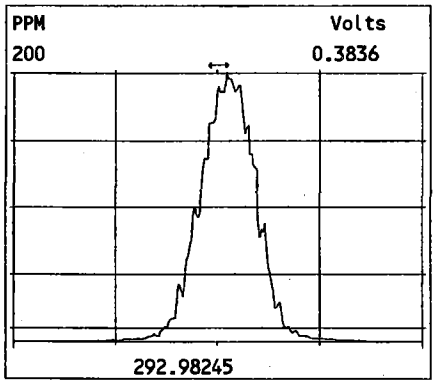
File:10MAR10M #1-348 Acq:10-MAR-2010 13:43:18 GC EI+ Voltage SIR Autospec-Ultima
455.7801 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST031010M1 File Text:Frontier Analytical Laboratory

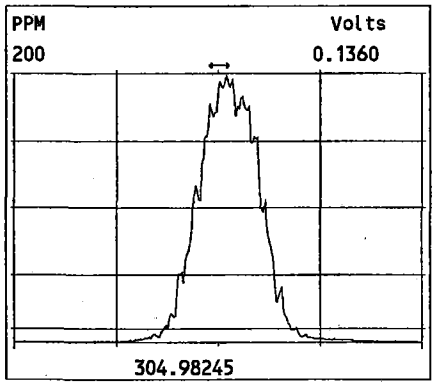


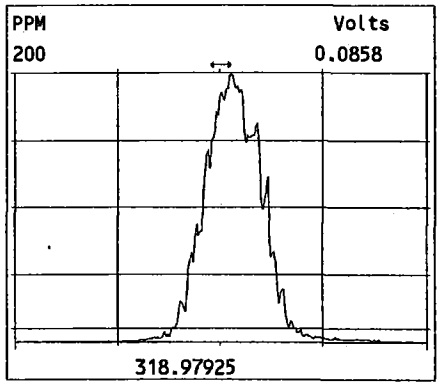
File:10MAR10M #1-348 Acq:10-MAR-2010 13:43:18 GC EI+ Voltage SIR Autospec-Ultima
513.6775 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST031010M1 File Text:Frontier Analytical Laboratory

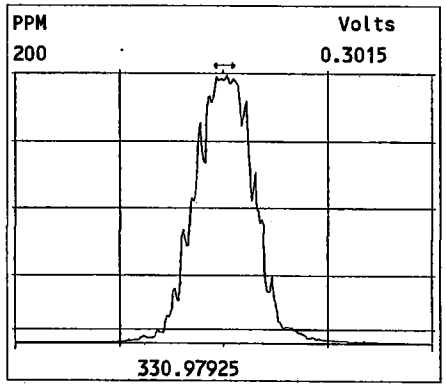


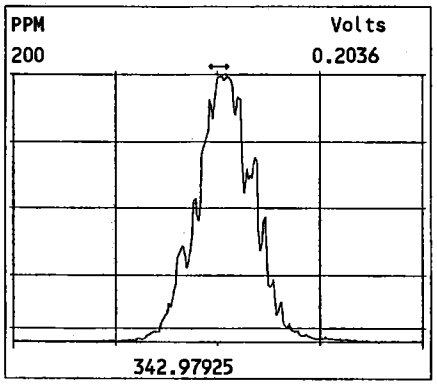
Peak Locate Examination:11-MAR-2010:04:30 File:10MAR10M_RES_CHECK
Experiment:PCDD Function:1 Reference:PFK

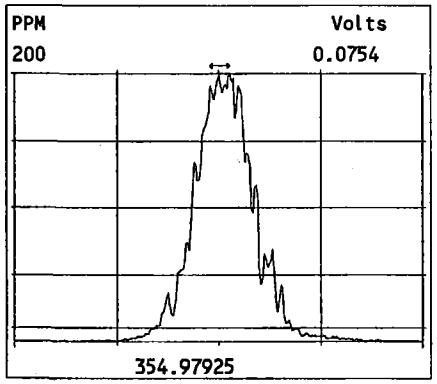


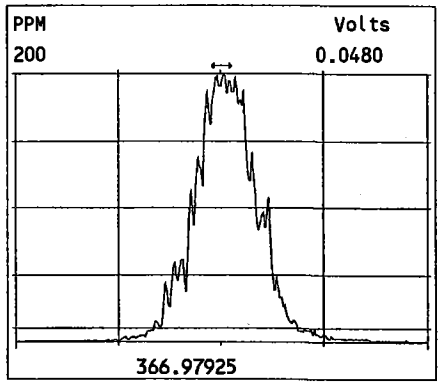


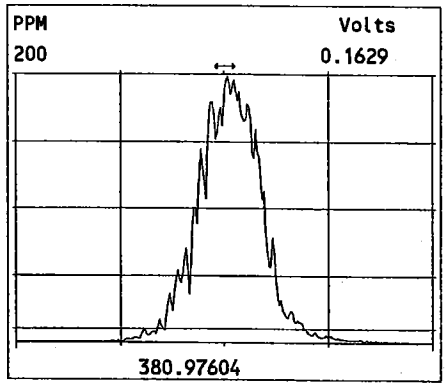


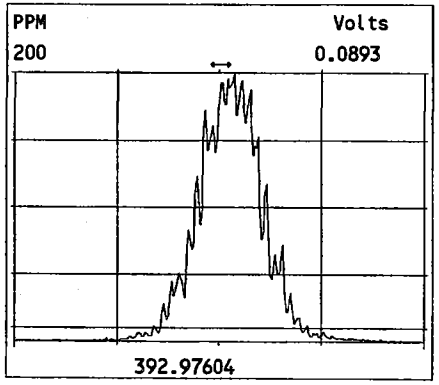


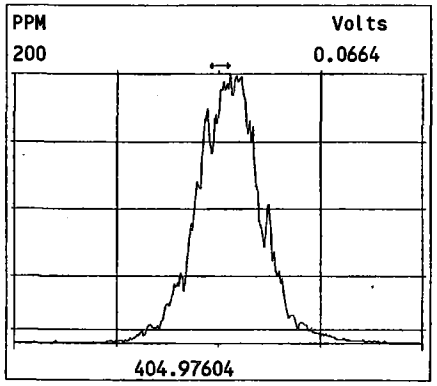


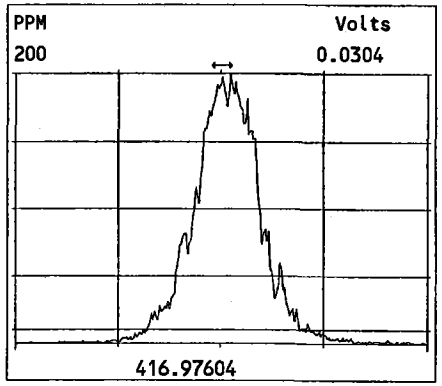




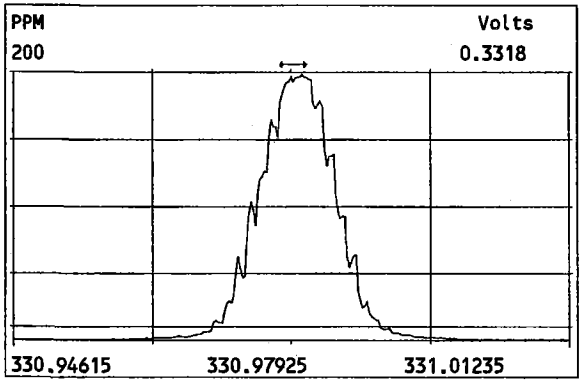


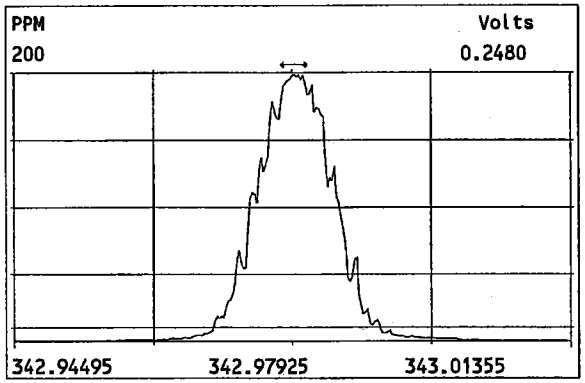


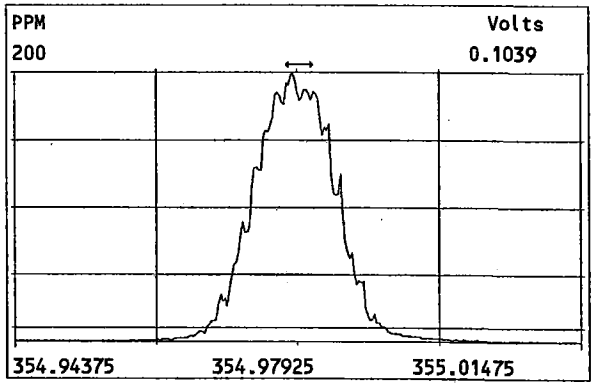


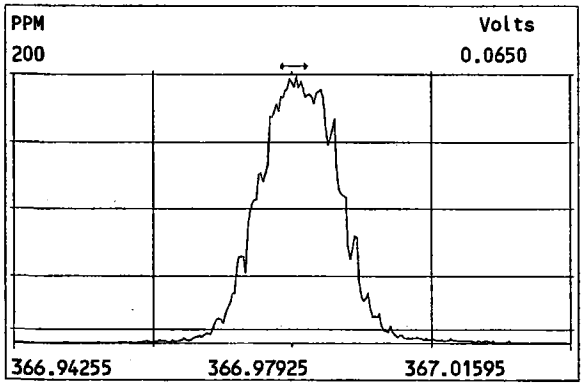


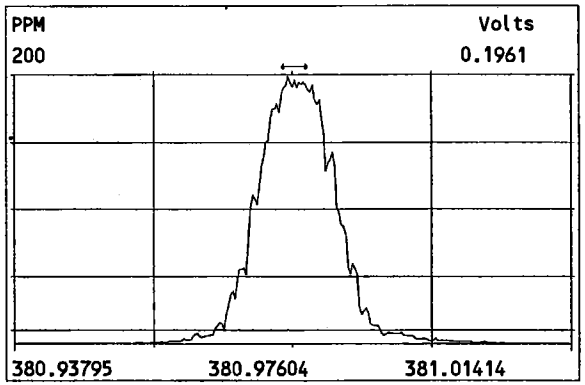
Peak Locate Examination:11-MAR-2010:04:32 File:10MAR10M_RES_CHECK
Experiment:PCDD Function:2 Reference:PFK

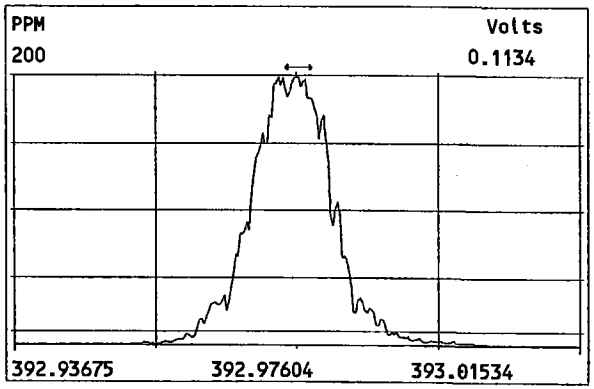


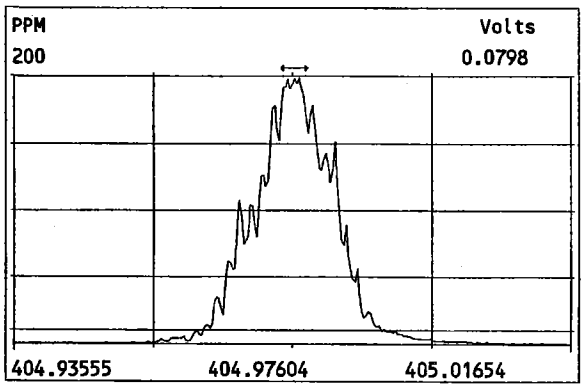


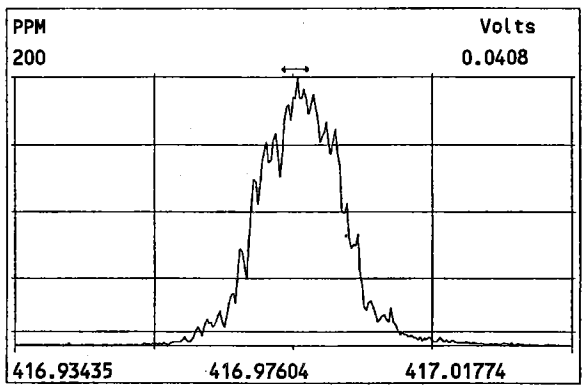




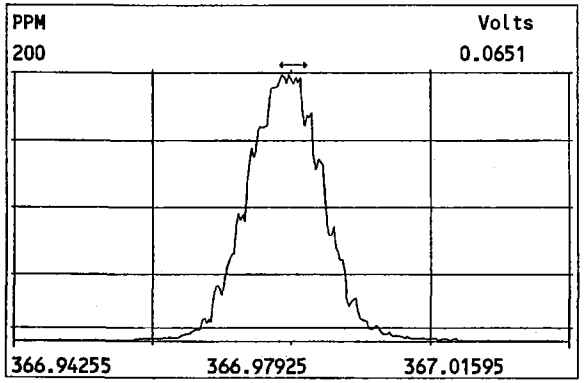


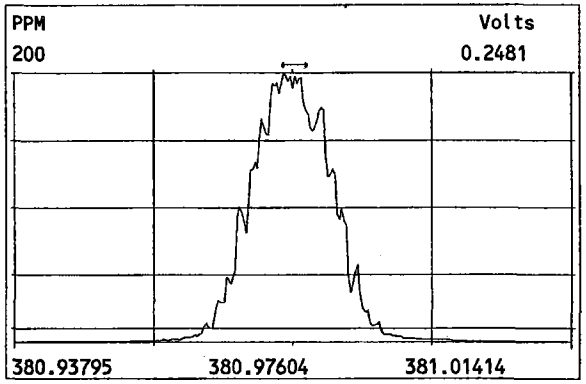


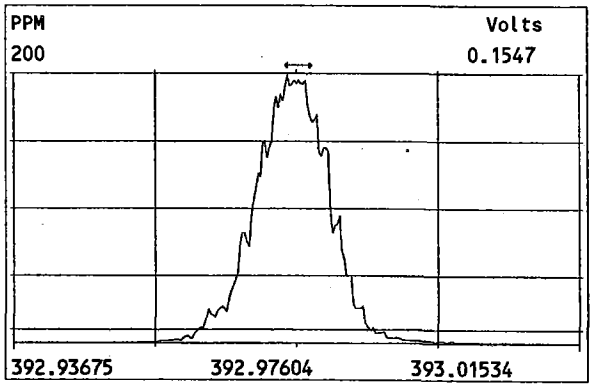


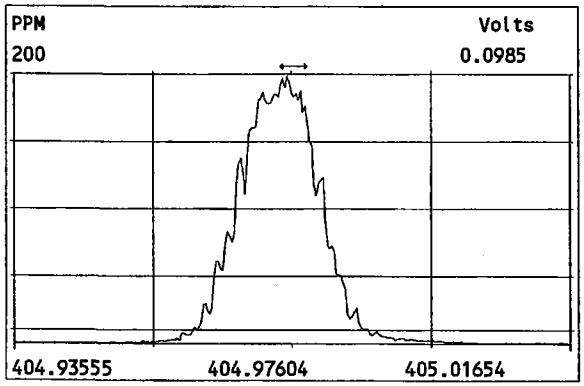


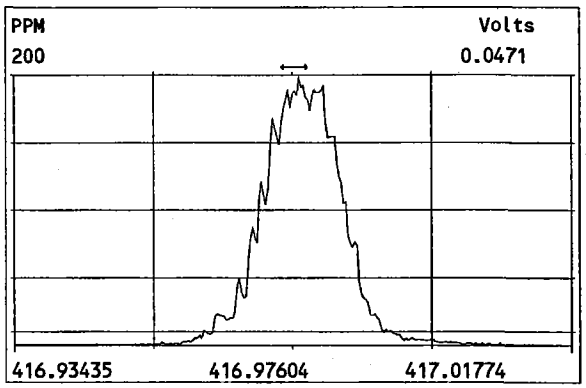
Peak Locate Examination:11-MAR-2010:04:34 File:10MAR10M_RES_CHECK
Experiment:PCDD Function:3 Reference:PFK

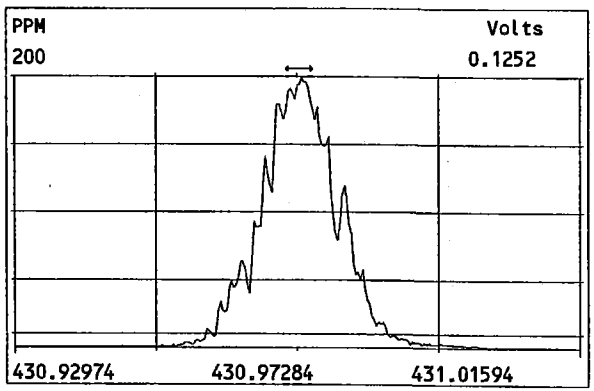


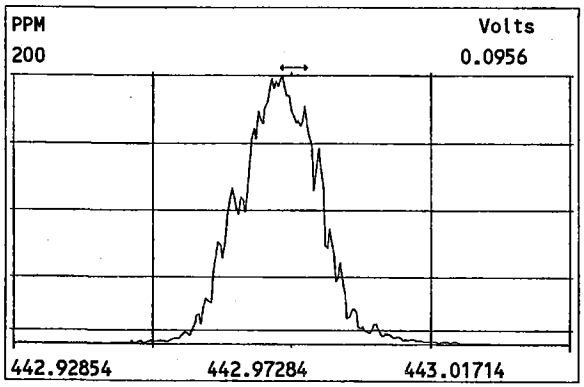


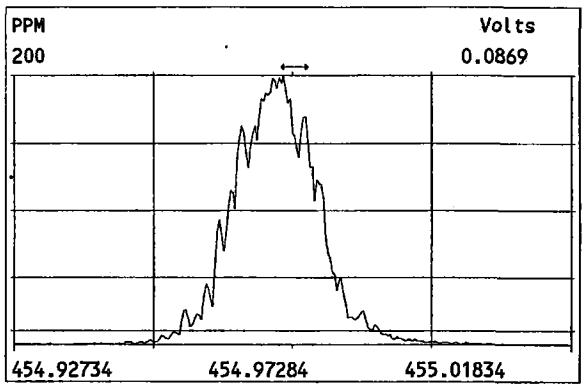




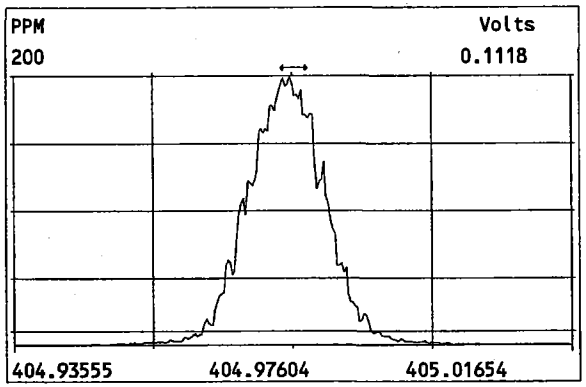


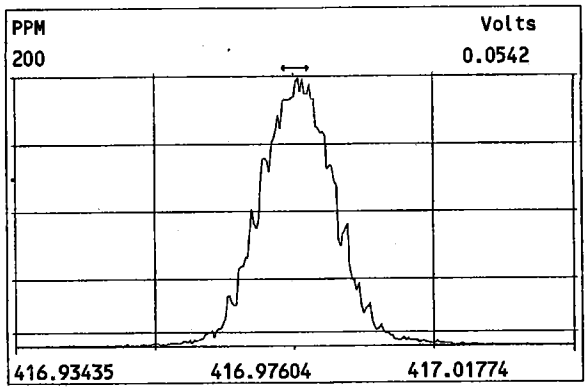


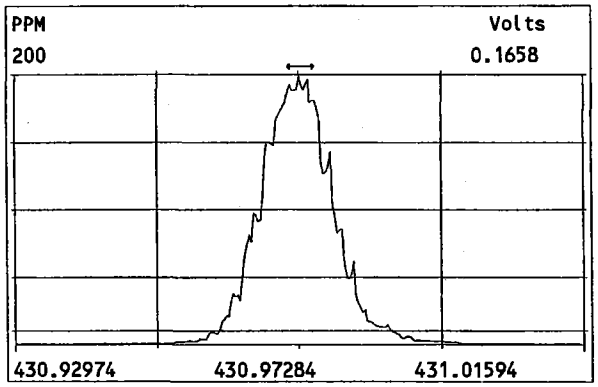


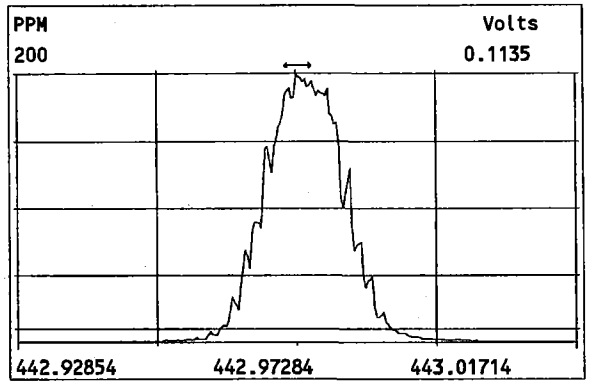


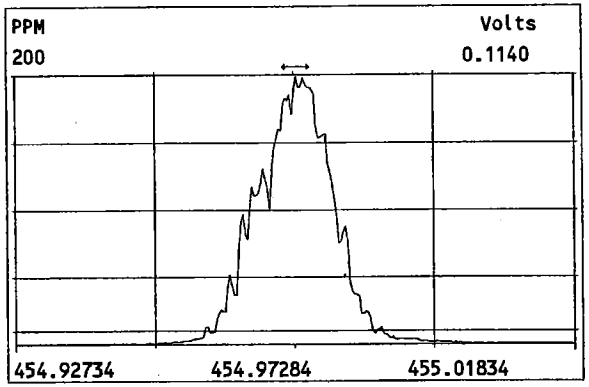
Peak Locate Examination:11-MAR-2010:04:36 File:10MAR10M_RES_CHECK
Experiment:PCDD Function:4 Reference:PFK

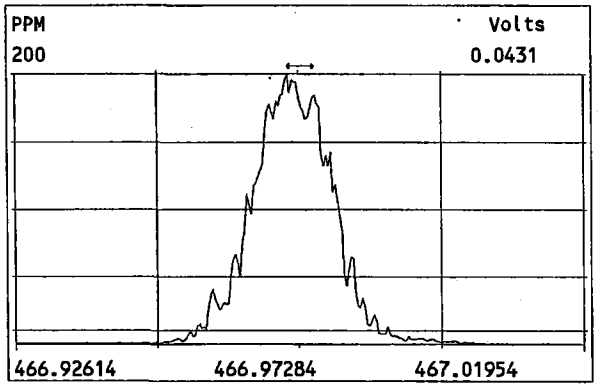


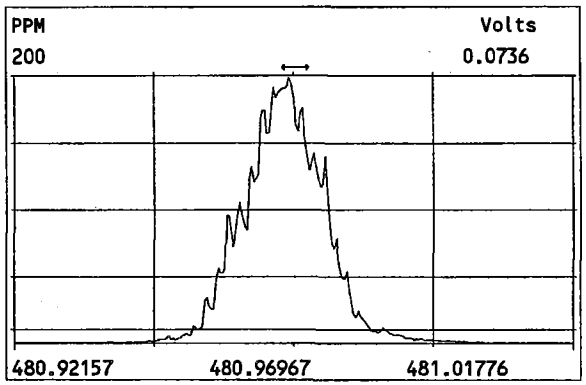




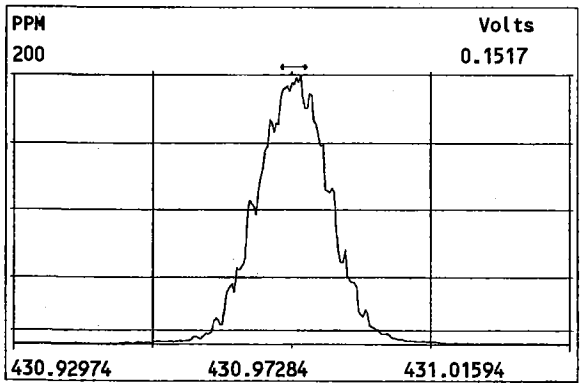


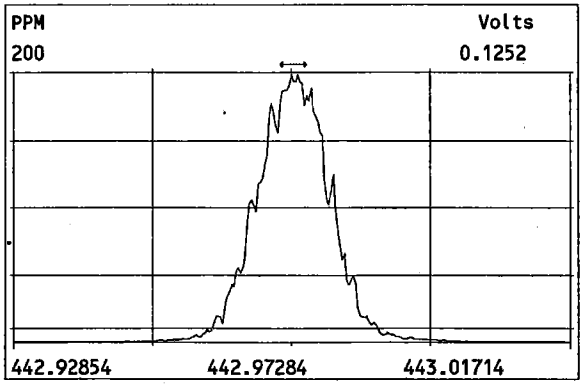


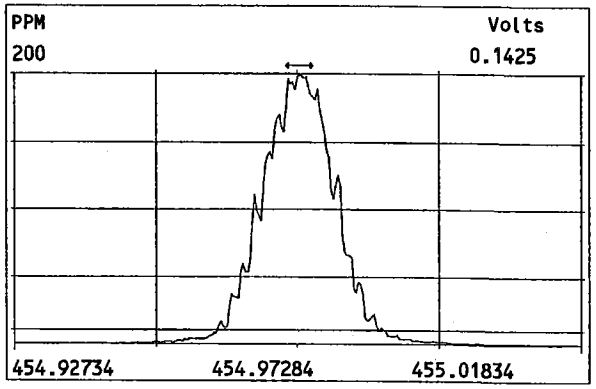


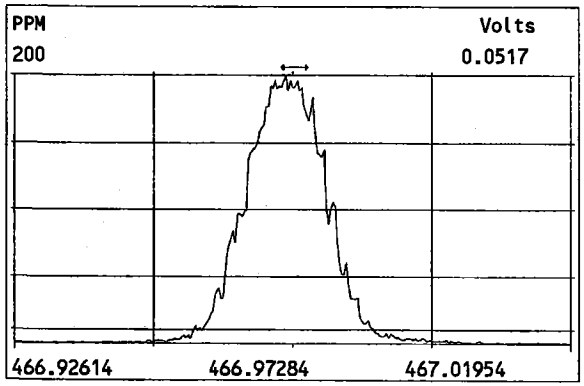


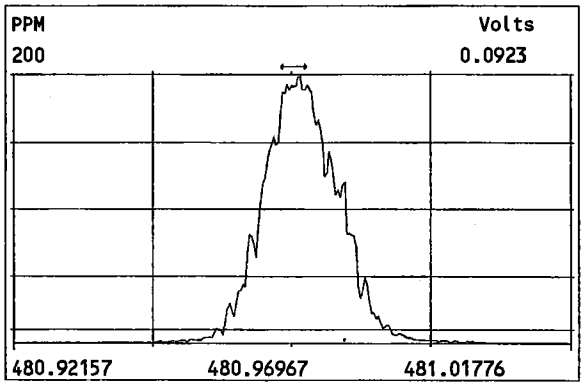
Peak Locate Examination:11-MAR-2010:04:38 File:10MAR10M_RES_CHECK
Experiment:PCDD Function:5 Reference:PFK

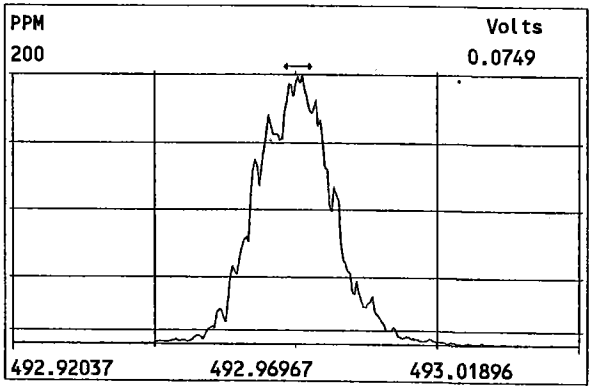


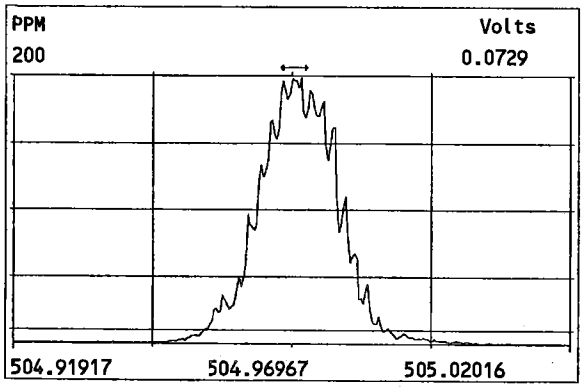


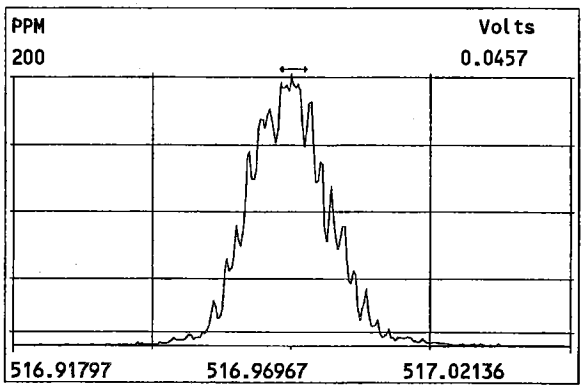












USEPA - ITD

FORM 4A
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 11/18/09

Instrument ID: FAL3 GC Column ID: DB5

VER Data Filename: 10MAR10M Sam:16 Analysis Date: 11-MAR-10 03:33:24

NATIVE ANALYTES	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL) (3)
2,3,7,8-TCDD	M/M+2	0.82	0.65-0.89	y	11.4	7.80 - 12.9
1,2,3,7,8-PeCDD	M+2/M+4	1.61	1.32-1.78	y	51.8	39.0 - 65.0
1,2,3,4,7,8-HxCDD	M+2/M+4	1.27	1.05-1.43	y	50.6	39.0 - 64.0
1,2,3,6,7,8-HxCDD	M+2/M+4	1.26	1.05-1.43	y	50.0	39.0 - 64.0
1,2,3,7,8,9-HxCDD	M+2/M+4	1.30	1.05-1.43	y	51.8	41.0 - 61.0
1,2,3,4,6,7,8-HpCDD	M+2/M+4	0.95	0.88-1.20	y	53.0	43.0 - 58.0
OCDD	M+2/M+4	0.95	0.76-1.02	y	103	79.0 - 126
2,3,7,8-TCDF	M/M+2	0.66	0.65-0.89	y	10.5	8.40 - 12.0
1,2,3,7,8-PeCDF	M+2/M+4	1.63	1.32-1.78	y	55.1	41.0 - 60.0
2,3,4,7,8-PeCDF	M+2/M+4	1.57	1.32-1.78	y	53.0	41.0 - 60.0
1,2,3,4,7,8-HxCDF	M+2/M+4	1.25	1.05-1.43	y	52.0	45.0 - 56.0
1,2,3,6,7,8-HxCDF	M+2/M+4	1.22	1.05-1.43	y	52.8	44.0 - 57.0
2,3,4,6,7,8-HxCDF	M+2/M+4	1.22	1.05-1.43	y	52.7	44.0 - 57.0
1,2,3,7,8,9-HxCDF	M+2/M+4	1.22	1.05-1.43	y	52.0	45.0 - 56.0
1,2,3,4,6,7,8-HpCDF	M+2/M+4	0.99	0.88-1.20	y	51.5	45.0 - 55.0
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.01	0.88-1.20	y	51.4	43.0 - 58.0
OCDF	M+2/M+4	0.91	0.76-1.02	y	105	63.0 - 159

(1) See Table 8, Method 1613, for m/z specifications.

(2) Ion Abundance Ratio Control Limits as specified in Table 9, Method 1613.

(3) Contract-required concentration range as specified in Table 6, Method 1613.

Analyst: _____ Date: 3/11/10

USEPA - ITD

FORM 4B
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 11/18/09

Instrument ID: FAL3 GC Column ID: DB5

VER Data Filename: 10MAR10M Sam:16 Analysis Date: 11-MAR-10 03:33:24

	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL) (3)
LABELED COMPOUNDS						
13C-2,3,7,8-TCDD	M/M+2	0.73	0.65-0.89	y	101	82.0 - 121
13C-1,2,3,7,8-PeCDD	M+2/M+4	1.64	1.32-1.78	y	81.8	62.0 - 160
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.28	1.05-1.43	y	99.2	85.0 - 117
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.34	1.05-1.43	y	100	85.0 - 118
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.04	0.88-1.20	y	100	72.0 - 138
13C-OCDD	M+2/M+4	0.99	0.76-1.02	y	208	96.0 - 415
13C-2,3,7,8-TCDF	M/M+2	0.82	0.65-0.89	y	101	71.0 - 140
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.71	1.32-1.78	y	82.0	76.0 - 130
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.67	1.32-1.78	y	77.7	77.0 - 130
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.49	0.43-0.59	y	98.2	76.0 - 131
13C-1,2,3,6,7,8-HxCDF	M/M+2	0.49	0.43-0.59	y	97.1	70.0 - 143
13C-2,3,4,6,7,8-HxCDF	M/M+2	0.50	0.43-0.59	y	94.7	73.0 - 137
13C-1,2,3,7,8,9-HxCDF	M/M+2	0.49	0.43-0.59	y	97.4	74.0 - 135
13C-1,2,3,4,6,7,8-HpCDF	M/M+2	0.46	0.37-0.51	y	101	78.0 - 129
13C-1,2,3,4,7,8,9-HpCDF	M/M+2	0.46	0.37-0.51	y	103	77.0 - 129
13C-OCDF	M+2/M+4	0.95	0.76-1.02	y	193	96.0 - 415
CLEANUP STANDARD (4)						
37Cl-2,3,7,8-TCDD					10.9	7.80 - 12.8

(1) See Table 8, Method 1613, for m/z specifications.

(2) Ion Abundance Ratio Control Limits as specified in Table 9, Method 1613.

(3) Contract-required concentration range as specified in Table 6, Method 1613.

(4) No ion abundance ratio; report concentration found.

Analyst: _____ Date: 3/11/10

FORM 5
PCDD/PCDF RT WINDOW AND ISOMER SPECIFICITY STANDARDS

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Instrument ID: FAL3 Initial Calibration Date: 11/18/09

RT Window Data Filename: 10MAR10M Sam:16 Analysis Date: 11-MAR-10 Time: 03:33:24

DB-5 IS Data Filename: 10MAR10M Sam:16 Analysis Date: 11-MAR-10 Time: 03:33:24

DB-225 IS Date Filename: Analysis Date: Time:

DB-5 RT WINDOW DEFINING STANDARDS RESULTS

ISOMERS	ABSOLUTE RT	ISOMERS	ABSOLUTE RT
1,3,6,8-TCDD (F)	24:20	1,3,6,8-TCDF (F)	22:59
1,2,8,9-TCDD (L)	28:17	1,2,8,9-TCDF (L)	28:30
1,2,4,7,9-PeCDD (F)	30:11	1,3,4,6,8-PeCDF (F)	28:21
1,2,3,8,9-PeCDD (L)	33:44	1,2,3,8,9-PeCDF (L)	34:09
1,2,4,6,7,9-HxCDD (F)	36:04	1,2,3,4,6,8-HxCDF (F)	35:11
1,2,3,7,8,9-HxCDD (L)	39:08	1,2,3,7,8,9-HxCDF (L)	39:42
1,2,3,4,6,7,9-HpCDD (F)	42:45	1,2,3,4,6,7,8-HpCDF (F)	42:14
1,2,3,4,6,7,8-HpCDD (L)	44:08	1,2,3,4,7,8,9-HpCDF (L)	45:02

(F) = First eluting isomer (DB-5); (L) = Last eluting isomer (DB-5)

ISOMER SPECIFICITY (IS) TEST STANDARD RESULTS

COMPARED PEAKS (1)	% VALLEY HEIGHT BETWEEN
	<25%

(1) To meet contract requirement, %Valley Height Between Compared Peaks shall not exceed 25% (section 15.4.2.2, Method 1613).

Analyst: _____ Date: 3/11/10

USEPA - ITD

FORM 6A
PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.: Init. Cal. Date: 11/18/09

Instrument ID: FAL3 GC Column ID: DB5

Analysis Date: 11-MAR-10 03:33:24 CS3 or VER Data Filename: 10MAR10M Sam:16

NATIVE ANALYTES	RETENTION TIME REFERENCE	RRT	RRT QC LIMITS (1)
2,3,7,8-TCDD	13C-2,3,7,8-TCDD	1.001	0.999-1.002
2,3,7,8-TCDF	13C-2,3,7,8-TCDF	1.001	0.999-1.003
1,2,3,7,8-PeCDD	13C-1,2,3,7,8-PeCDD	1.001	0.999-1.002
1,2,3,7,8-PeCDF	13C-1,2,3,7,8-PeCDF	1.000	0.999-1.002
2,3,4,7,8-PeCDF	13C-2,3,4,7,8-PeCDF	1.001	0.999-1.002
LABELED COMPOUNDS			
37Cl-2,3,7,8-TCDD	13C-1,2,3,4-TCDD	1.022	0.989-1.052
13C-2,3,7,8-TCDD		1.021	0.976-1.043
13C-2,3,7,8-TCDF		0.993	0.923-1.103
13C-1,2,3,7,8-PeCDD		1.239	1.000-1.567
13C-1,2,3,7,8-PeCDF		1.175	0.923-1.203
13C-2,3,4,7,8-PeCDF		1.224	0.923-1.303

(1) Contract-required limits for Relative Retention Times (RRT) as specified in Table 2, Method 1613.

Analyst: _____ Date: 3/11/10

USEPA - ITD

FORM 6B
PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.: Init. Cal. Date: 11/18/09

Instrument ID: FAL3 GC Column ID: DB5

Analysis Date: 11-MAR-10 03:33:24 CS3 or VER Data Filename: 10MAR10M Sam:16

NATIVE ANALYTES	RETENTION TIME REFERENCE	RRT	RRT QC LIMITS (1)
1,2,3,4,7,8-HxCDD	13C-1,2,3,4,7,8-HxCDD	1.001	0.999-1.001
1,2,3,6,7,8-HxCDD	13C-1,2,3,6,7,8-HxCDD	1.001	0.998-1.004
1,2,3,7,8,9-HxCDD	13C-1,2,3,6,7,8-HxCDD	1.012	1.000-1.019
1,2,3,4,7,8-HxCDF	13C-1,2,3,4,7,8-HxCDF	1.001	0.999-1.001
1,2,3,6,7,8-HxCDF	13C-1,2,3,6,7,8-HxCDF	1.001	0.997-1.005
2,3,4,6,7,8-HxCDF	13C-2,3,4,6,7,8-HxCDF	1.001	0.999-1.001
1,2,3,7,8,9-HxCDF	13C-1,2,3,7,8,9-HxCDF	1.001	0.999-1.001
1,2,3,4,6,7,8-HpCDD	13C-1,2,3,4,6,7,8-HpCDD	1.001	0.999-1.001
1,2,3,4,6,7,8-HpCDF	13C-1,2,3,4,6,7,8-HpCDF	1.000	0.999-1.001
1,2,3,4,7,8,9-HpCDF	13C-1,2,3,4,7,8,9-HpCDF	1.000	0.999-1.001
OCDD	13C-OCDD	1.000	0.999-1.001
OCDF	13C-OCDF	1.001	0.999-1.001
LABELED COMPOUNDS			
13C-1,2,3,4,7,8-HxCDD	13C-1,2,3,7,8,9-HxCDD	0.984	0.977-1.000
13C-1,2,3,6,7,8-HxCDD		0.988	0.981-1.003
13C-1,2,3,4,7,8-HxCDF		0.949	0.944-0.970
13C-1,2,3,6,7,8-HxCDF		0.954	0.949-0.975
13C-2,3,4,6,7,8-HxCDF		0.978	0.959-1.021
13C-1,2,3,7,8,9-HxCDF		1.015	0.977-1.047
13C-1,2,3,4,6,7,8-HpCDD		1.128	1.086-1.130
13C-1,2,3,4,6,7,8-HpCDF		1.079	1.043-1.085
13C-1,2,3,4,7,8,9-HpCDF		1.151	1.057-1.154
13C-OCDD		1.270	1.032-1.311
13C-OCDF		1.279	1.000-1.311

(1) Contract-required limits for Relative Retention Times (RRT) as specified in Table 2, Method 1613.

Analyst: _____ Date: 3/11/10

FAL ID: ST031010M2 Filename: 10MAR10M Sam:16 Acquired: 11-MAR-10 03:33:24 ICal: PCDDFAL3-11-18-09
Client ID: 1613 CS3 (090918J) ConCal: ST031010M1 EndCal: ST031010M2
Results: GC Column: DB5 Amount: 1.000 NATO 1989 Tox: 106
WHO 1998 Tox: 131 WHO 2005 Tox: 120

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL
2,3,7,8-TCDD	2.43e+06	0.82 y	27:21	1.02	11.4		2.50	-	-	*
1,2,3,7,8-PeCDD	9.12e+06	1.61 y	33:10	0.96	51.8		2.50	-	-	*
1,2,3,4,7,8-HxCDD	9.59e+06	1.27 y	38:32	1.37	50.6		2.50	-	-	*
1,2,3,6,7,8-HxCDD	8.92e+06	1.26 y	38:41	1.34	50.0		2.50	-	-	*
1,2,3,7,8,9-HxCDD	9.59e+06	1.30 y	39:08	1.37	51.8		2.50	-	-	*
1,2,3,4,6,7,8-HpCDD	7.88e+06	0.95 y	44:08	1.17	53.0		2.50	-	-	*
OCDD	1.22e+07	0.95 y	49:41	1.21	103		2.50	-	-	*
2,3,7,8-TCDF	4.76e+06	0.66 y	26:34	1.29	10.5		2.50	-	-	*
1,2,3,7,8-PeCDF	1.40e+07	1.63 y	31:25	0.89	55.1		2.50	-	-	*
2,3,4,7,8-PeCDF	1.26e+07	1.57 y	32:45	0.91	53.0		2.50	-	-	*
1,2,3,4,7,8-HxCDF	1.24e+07	1.25 y	37:08	1.00	52.0		2.50	-	-	*
1,2,3,6,7,8-HxCDF	1.33e+07	1.22 y	37:20	0.92	52.8		2.50	-	-	*
2,3,4,6,7,8-HxCDF	1.20e+07	1.22 y	38:16	0.99	52.7		2.50	-	-	*
1,2,3,7,8,9-HxCDF	1.17e+07	1.22 y	39:42	1.09	52.0		2.50	-	-	*
1,2,3,4,6,7,8-HpCDF	1.09e+07	0.99 y	42:14	1.36	51.5		2.50	-	-	*
1,2,3,4,7,8,9-HpCDF	1.02e+07	1.01 y	45:02	1.61	51.4		2.50	-	-	*
OCDF	1.41e+07	0.91 y	50:03	0.84	105		2.50	-	-	*
										Rec
13C-2,3,7,8-TCDD	2.09e+07	0.73 y	27:19	0.94	101					101
13C-1,2,3,7,8-PeCDD	1.83e+07	1.64 y	33:08	1.02	81.8					81.8
13C-1,2,3,4,7,8-HxCDD	1.38e+07	1.28 y	38:30	0.98	99.2					99.2
13C-1,2,3,6,7,8-HxCDD	1.33e+07	1.34 y	38:40	0.94	100					100
13C-1,2,3,4,6,7,8-HpCDD	1.28e+07	1.04 y	44:07	0.90	100					100
13C-OCDD	1.96e+07	0.99 y	49:40	0.67	208					104
13C-2,3,7,8-TCDF	3.54e+07	0.82 y	26:33	0.88	101					101
13C-1,2,3,7,8-PeCDF	2.86e+07	1.71 y	31:24	0.88	82.0					82.0
13C-2,3,4,7,8-PeCDF	2.62e+07	1.67 y	32:43	0.85	77.7					77.7
13C-1,2,3,4,7,8-HxCDF	2.38e+07	0.49 y	37:07	1.72	98.2					98.2
13C-1,2,3,6,7,8-HxCDF	2.75e+07	0.49 y	37:18	2.00	97.1					97.1
13C-2,3,4,6,7,8-HxCDF	2.32e+07	0.50 y	38:15	1.74	94.7					94.7
13C-1,2,3,7,8,9-HxCDF	2.07e+07	0.49 y	39:41	1.51	97.4					97.4
13C-1,2,3,4,6,7,8-HpCDF	1.56e+07	0.46 y	42:13	1.10	101					101
13C-1,2,3,4,7,8,9-HpCDF	1.24e+07	0.46 y	45:02	0.85	103					103
13C-OCDF	3.21e+07	0.95 y	50:01	1.17	193					96.7
37Cl-2,3,7,8-TCDD	2.34e+06		27:20	0.97	10.9					109
13C-1,2,3,4-TCDD	2.20e+07	0.74 y	26:44	-	84.0					
13C-1,2,3,4-TCDF	3.97e+07	0.84 y	25:29	-	86.0					
13C-1,2,3,7,8,9-HxCDD	1.41e+07	1.31 y	39:07	-	68.9					

							Fac	Noise-1	Noise-2	DL		#Hom
Total Tetra-Dioxins	1.30e+07		23:39	1.02	61.1		2.50	-	-	*		19
Total Penta-Dioxins	1.99e+07		30:11	0.96	113		2.50	-	-	*		15
Total Hexa-Dioxins	3.22e+07		36:04	1.36	174		2.50	-	-	*		13
Total Hepta-Dioxins	1.67e+07		42:45	1.17	112		2.50	-	-	*		16
Total Tetra-Furans	1.99e+07		22:59	1.29	43.7		2.50	-	-	*		17
1st Fn. Tot Penta-Furans	1.47e+07		28:21	0.90	59.7		2.50	-	-	*	PeCDF	2
Total Penta-Furans	3.79e+07		30:08	0.90	154		2.50	-	-	*	214	16
Total Hexa-Furans	5.73e+07		35:11	0.99	243		2.50	-	-	*		16
Total Hepta-Furans	2.16e+07		42:14	1.47	105		2.50	-	-	*		11

Analyst: _____ Date: 3/11/10

Frontier Analytical Laboratory - Acquisition Log

Run Name:10MAR10M Instrument: FAL3 GC: DB5 Experiment:PCDD

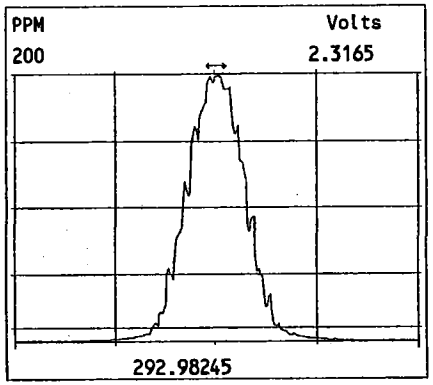
Data File	S	FAL ID	Client ID	Acquired	ConCal	EndCal	Analyst
10MAR10M	1	ST031010M1	1613 CS3 (090918J)	10-MAR-10 13:43:18	ST031010M1	ST031010M2	TC
10MAR10M	2	QC031010M1	QC1	10-MAR-10 14:38:36	ST031010M1	ST031010M2	TC
10MAR10M	3	1959-001-0001-OPR	OPR	10-MAR-10 15:33:55	ST031010M1	ST031010M2	TC
10MAR10M	4	1959-001-0001-MB	Method Blank	10-MAR-10 16:29:14	ST031010M1	ST031010M2	TC
10MAR10M	5	6013-001-0001-SA	Influent 94490	10-MAR-10 17:24:36	ST031010M1	ST031010M2	TC
10MAR10M	6	6013-002-0001-SA	Effluent 94491	10-MAR-10 18:19:58	ST031010M1	ST031010M2	TC
10MAR10M	7	6014-001-0001-SA	Outer Pond	10-MAR-10 19:15:21	ST031010M1	ST031010M2	TC
10MAR10M	8	6011-001-0001-SA	0030104-01	10-MAR-10 20:10:43	ST031010M1	ST031010M2	TC
10MAR10M	9	6011-002-0001-SA	0030104-02	10-MAR-10 21:06:06	ST031010M1	ST031010M2	TC
10MAR10M	10	6011-003-0001-SA	0030104-03	10-MAR-10 22:01:29	ST031010M1	ST031010M2	TC
10MAR10M	11	6012-001-0001-SA	CB31A022710COMP	10-MAR-10 22:56:48	ST031010M1	ST031010M2	TC
10MAR10M	12	6012-002-0001-SA	CB4857022710COMP	10-MAR-10 23:52:03	ST031010M1	ST031010M2	TC
10MAR10M	13	6012-003-0001-SA	CB1022710COMP	11-MAR-10 00:47:26	ST031010M1	ST031010M2	TC
10MAR10M	14	6012-004-0001-SA	CB102022710COMP	11-MAR-10 01:42:44	ST031010M1	ST031010M2	TC
10MAR10M	15	QC031010M2	CC QC	11-MAR-10 02:38:03	ST031010M1	ST031010M2	TC
10MAR10M	16	ST031010M2	1613 CS3 (090918J)	11-MAR-10 03:33:24	ST031010M1	ST031010M2	TC

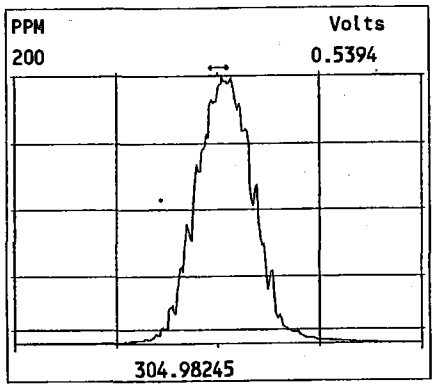
3/11/10

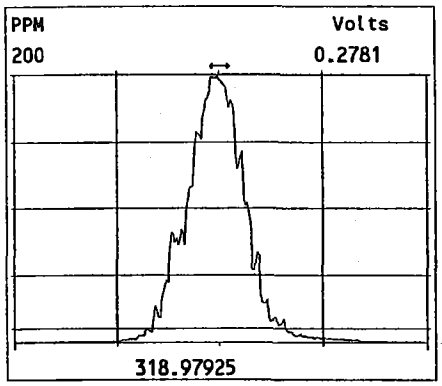
Data Backed Up:_____

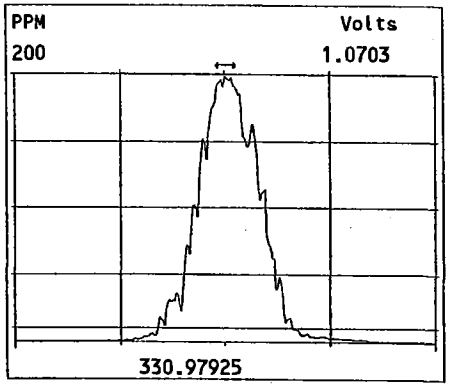
Date:_____

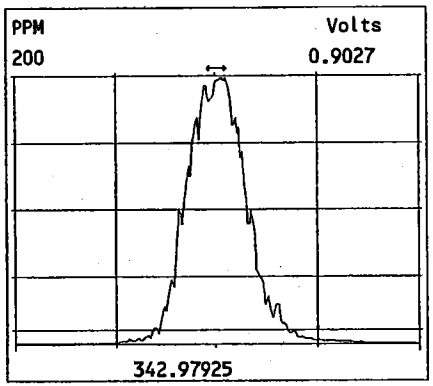
Peak Locate Examination:10-MAR-2010:13:40 File:10MAR10M
Experiment:PCDD Function:1 Reference:PFK

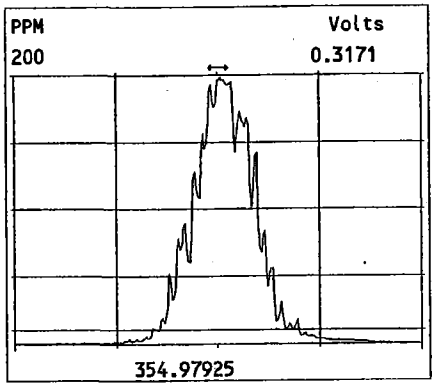


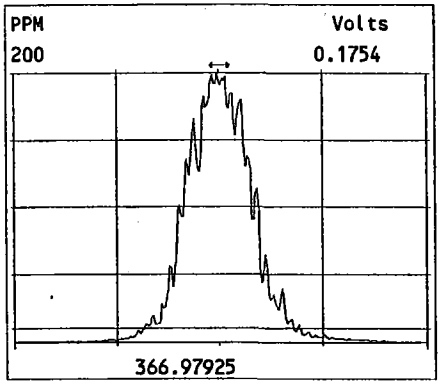


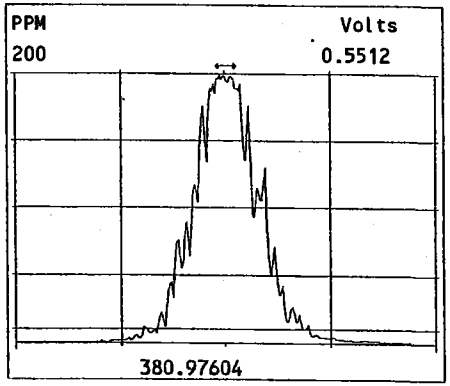


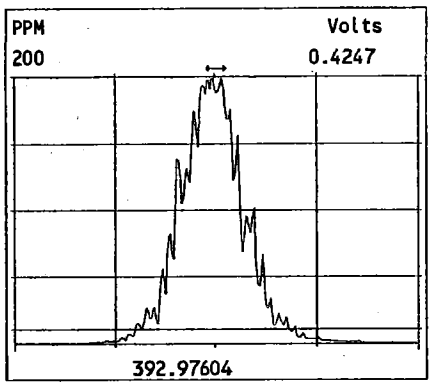


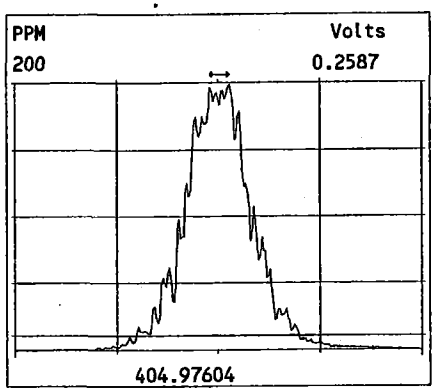


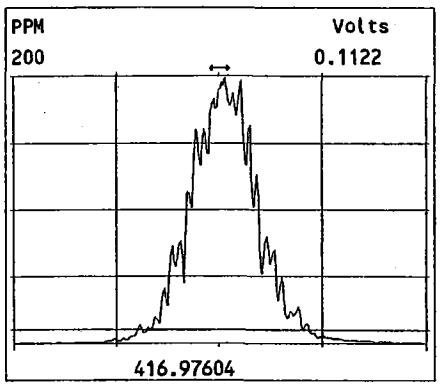






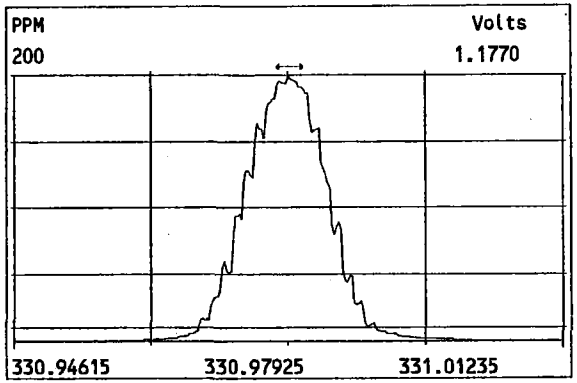


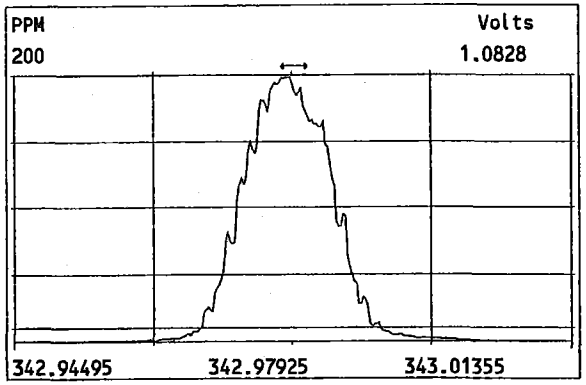


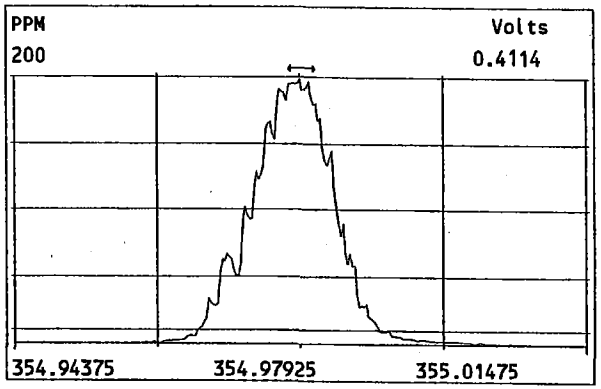


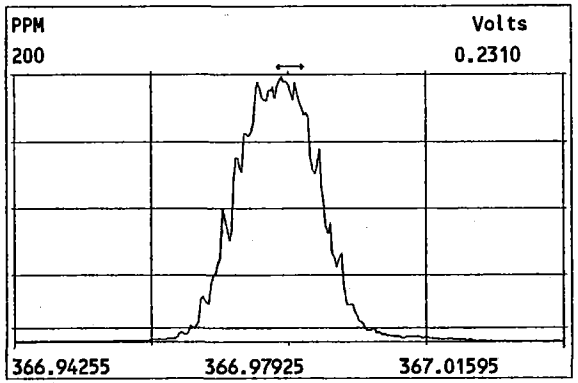
Peak Locate Examination:10-MAR-2010:13:41 File:10MAR10M

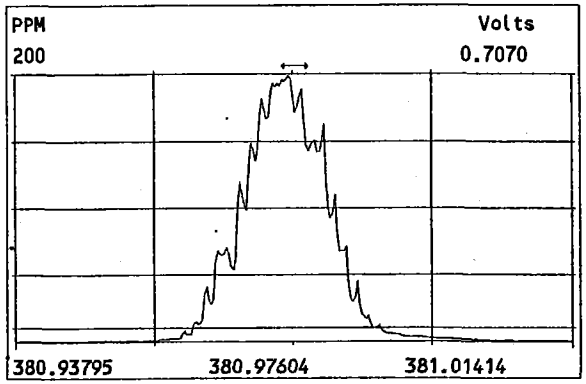
Experiment:PCDD Function:2 Reference:PFK

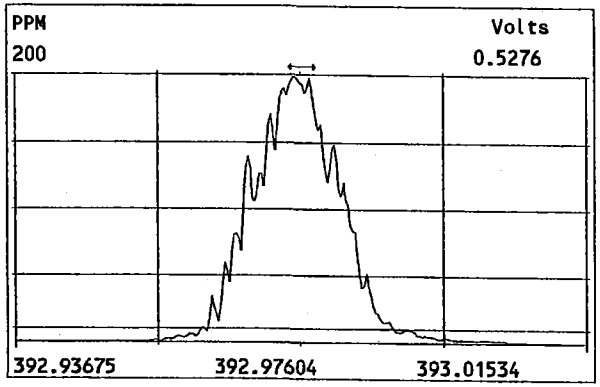


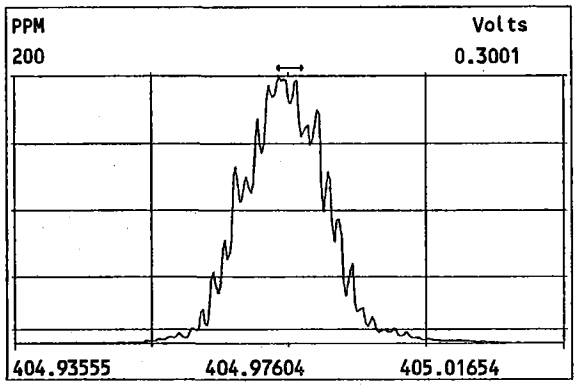


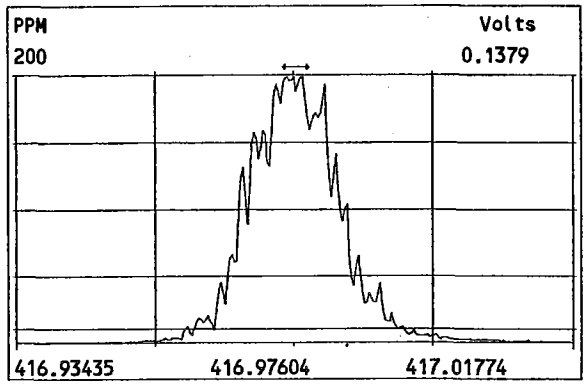




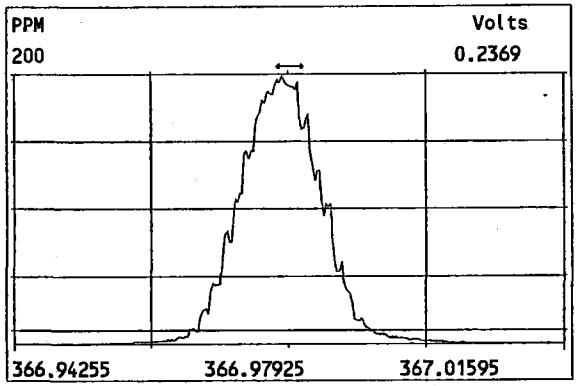


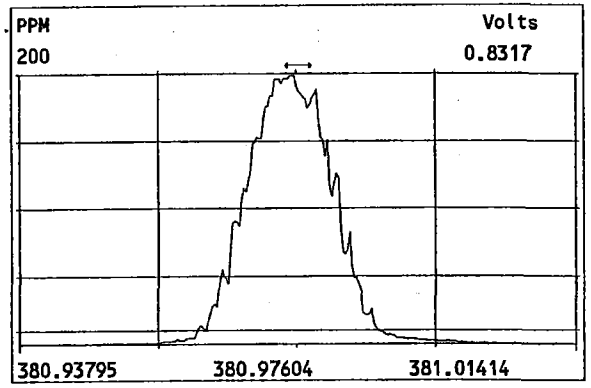


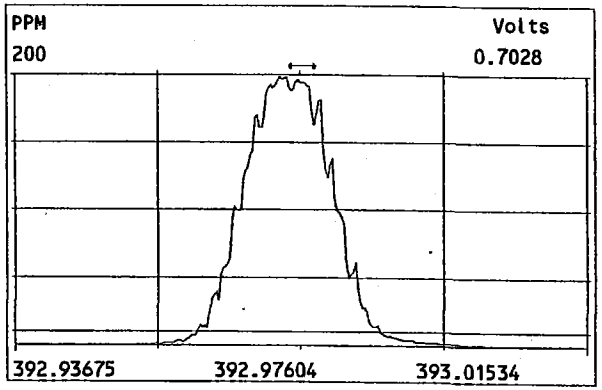


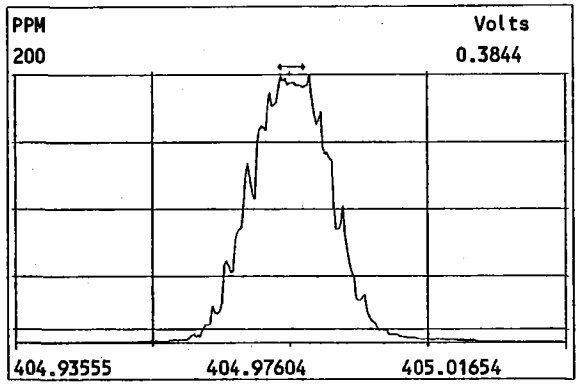


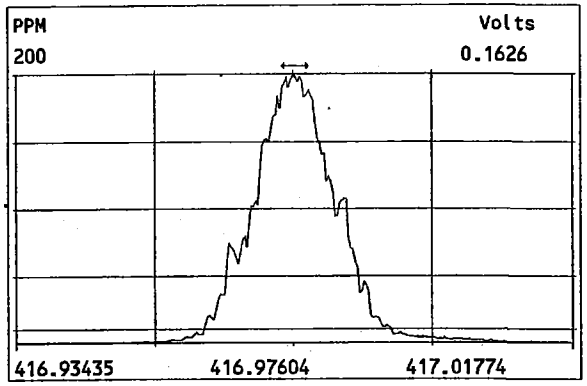
Peak Locate Examination:10-MAR-2010:13:41 File:10MAR10M
Experiment:PCDD Function:3 Reference:PFK

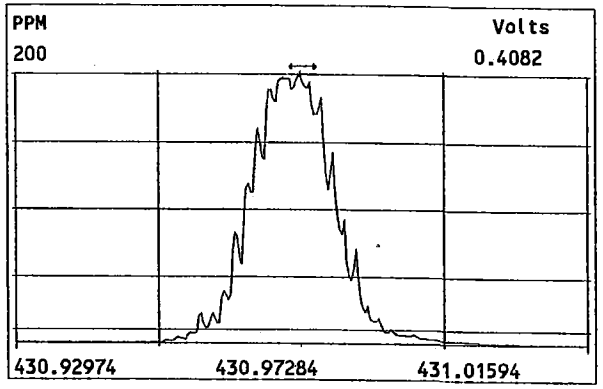


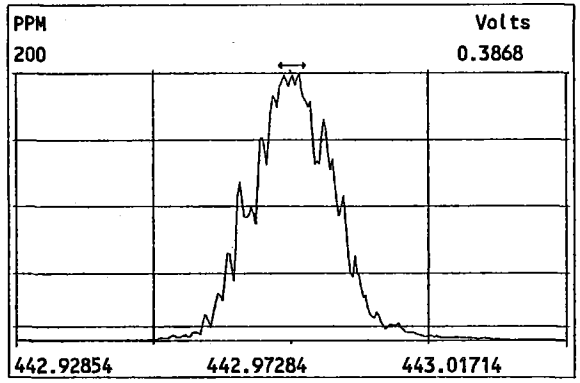


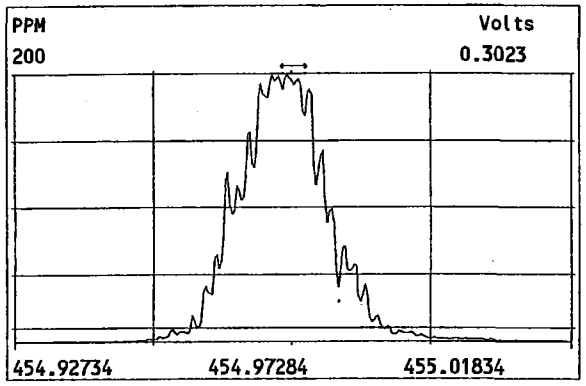




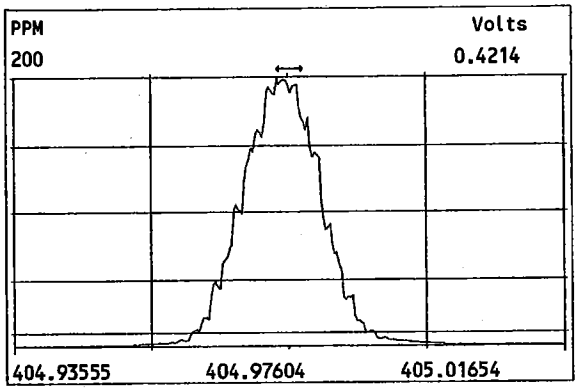


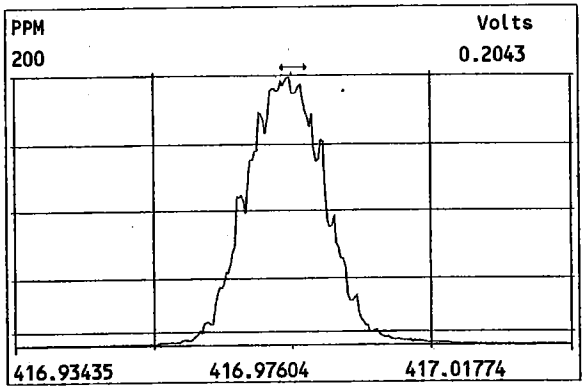


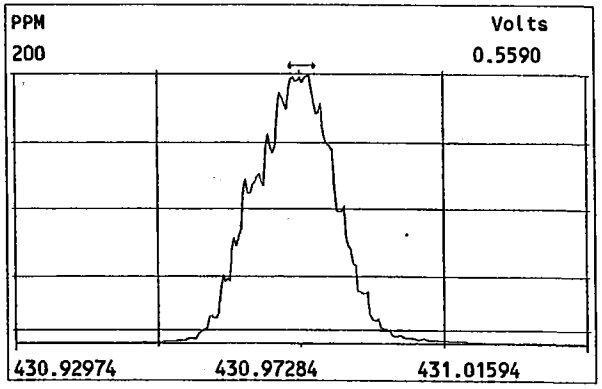


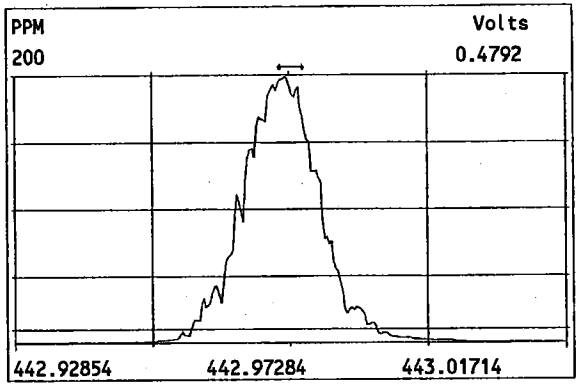


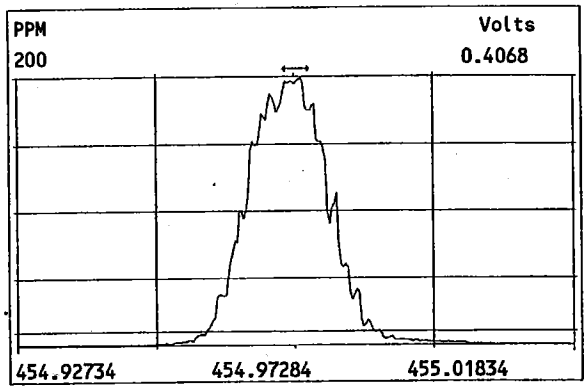
Peak Locate Examination:10-MAR-2010:13:42 File:10MAR10M
Experiment:PCDD Function:4 Reference:PFK

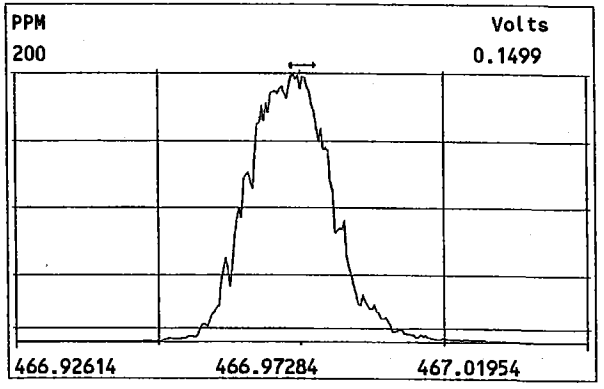


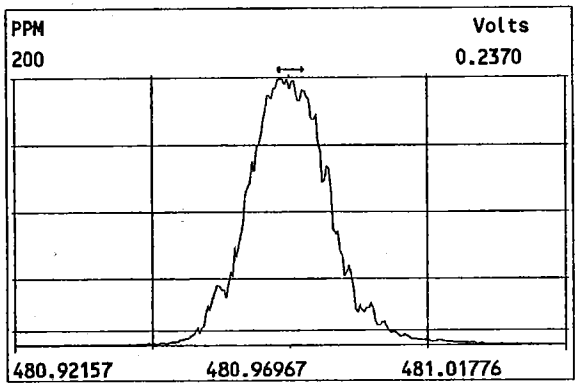




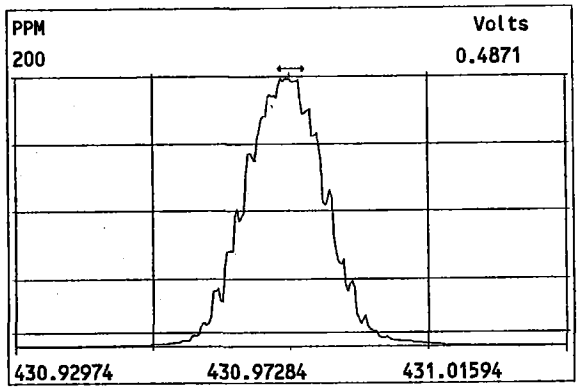


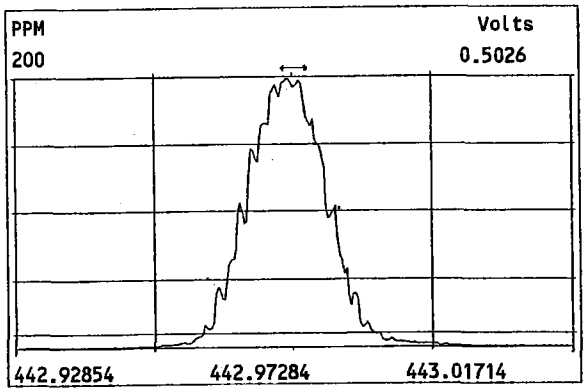


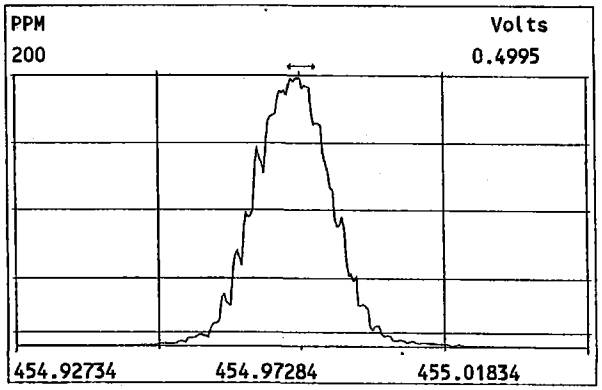


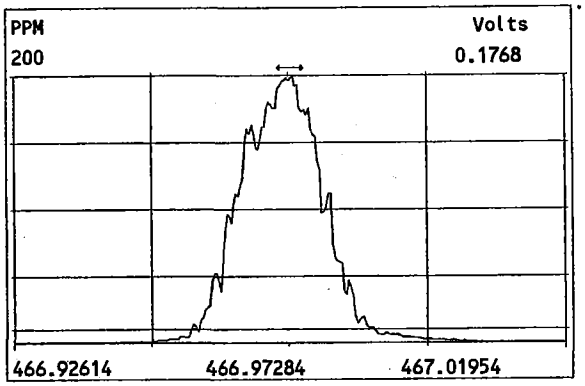


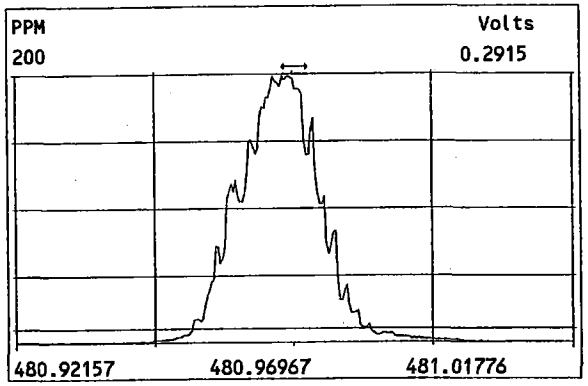
Peak Locate Examination:10-MAR-2010:13:42 File:10MAR10M
Experiment:PCDD Function:5 Reference:PFK

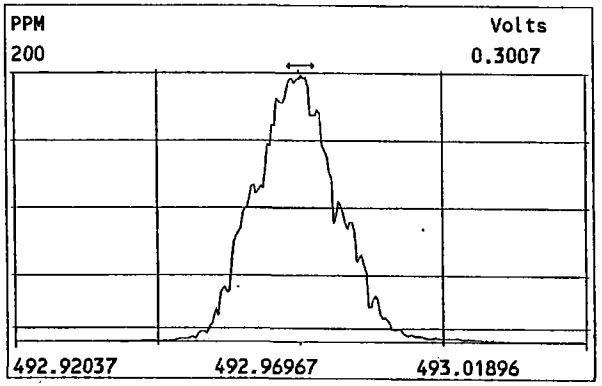


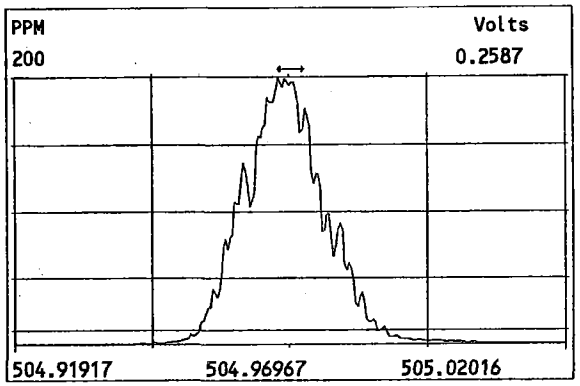


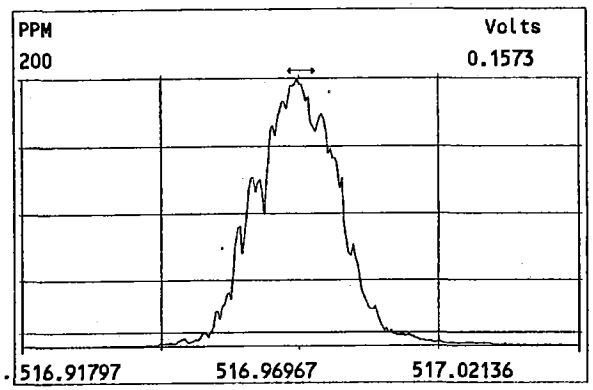




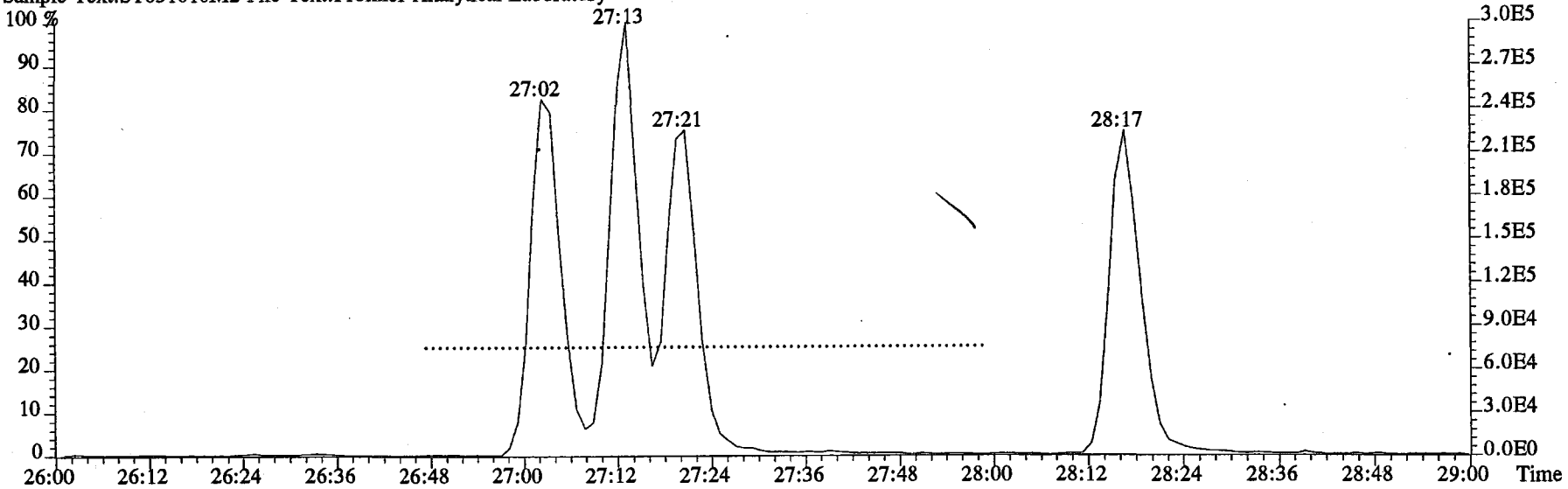




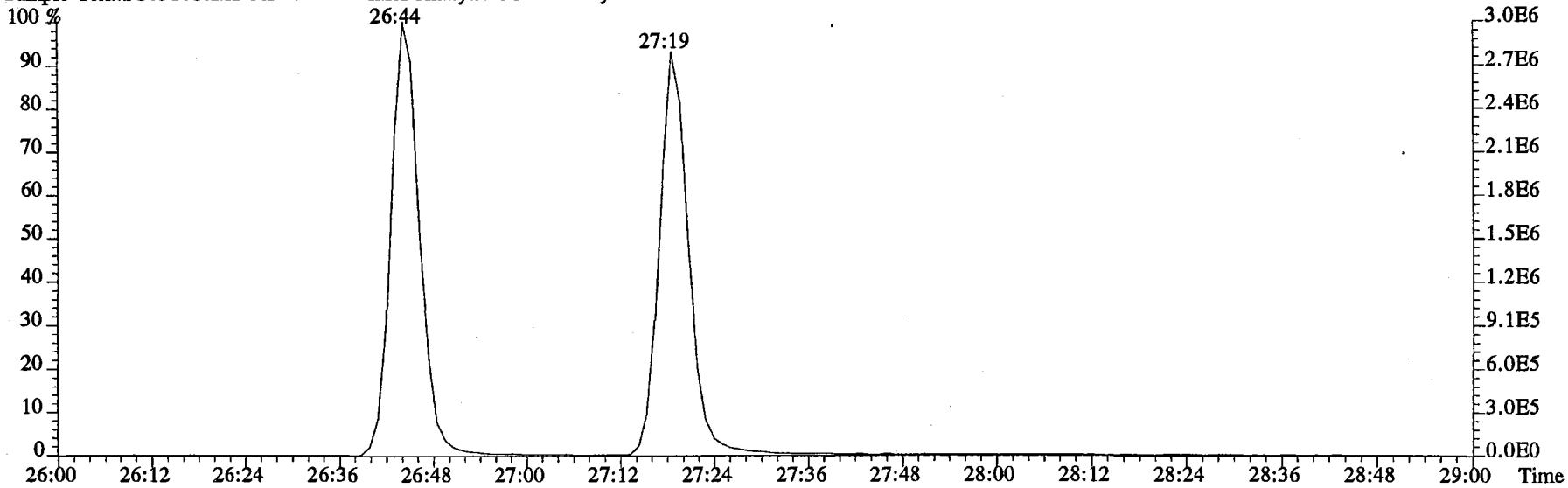




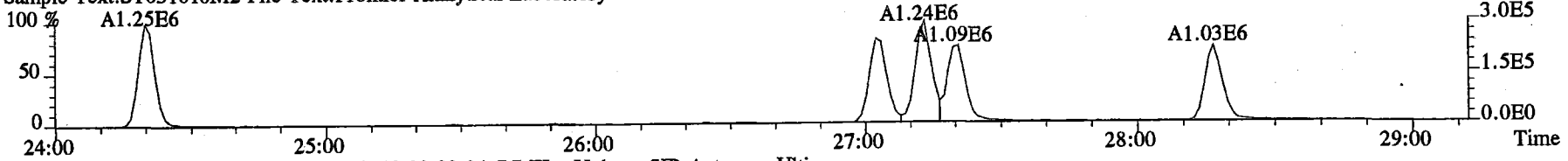
File:10MAR10M #1-391 Acq:11-MAR-2010 03:33:24 GC EI+ Voltage SIR Autospec-Ultima
319.8965 S:16 Exp:PCDD
Sample Text:ST031010M2 File Text:Frontier Analytical Laboratory



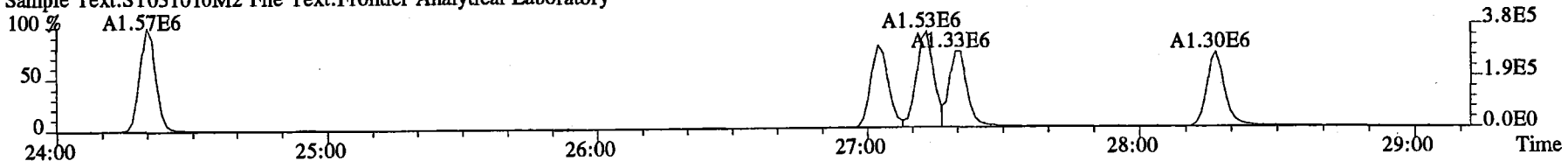
File:10MAR10M #1-391 Acq:11-MAR-2010 03:33:24 GC EI+ Voltage SIR Autospec-Ultima
333.9339 S:16 Exp:PCDD
Sample Text:ST031010M2 File Text:Frontier Analytical Laboratory



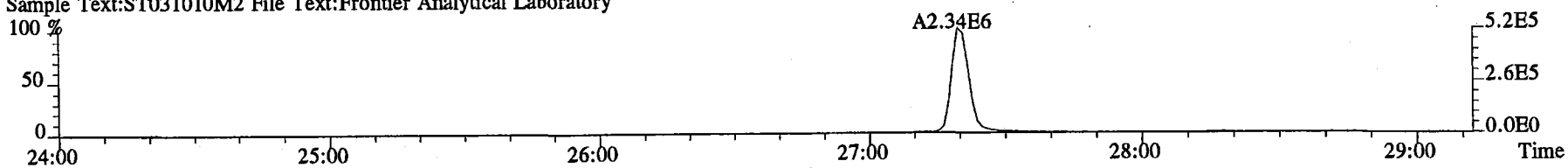
File:10MAR10M #1-391 Acq:11-MAR-2010 03:33:24 GC EI+ Voltage SIR Autospec-Ultima
319.8965 S:16 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST031010M2 File Text:Frontier Analytical Laboratory



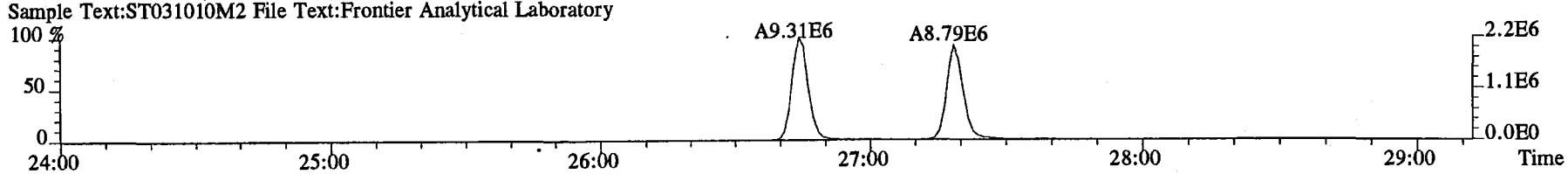
File:10MAR10M #1-391 Acq:11-MAR-2010 03:33:24 GC EI+ Voltage SIR Autospec-Ultima
321.8936 S:16 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST031010M2 File Text:Frontier Analytical Laboratory



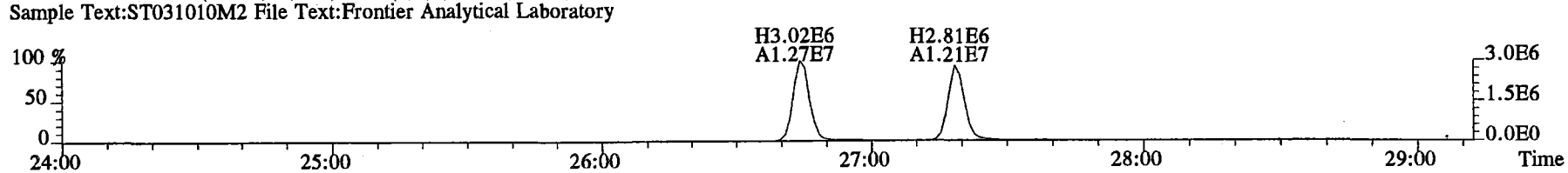
File:10MAR10M #1-391 Acq:11-MAR-2010 03:33:24 GC EI+ Voltage SIR Autospec-Ultima
327.8847 S:16 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST031010M2 File Text:Frontier Analytical Laboratory



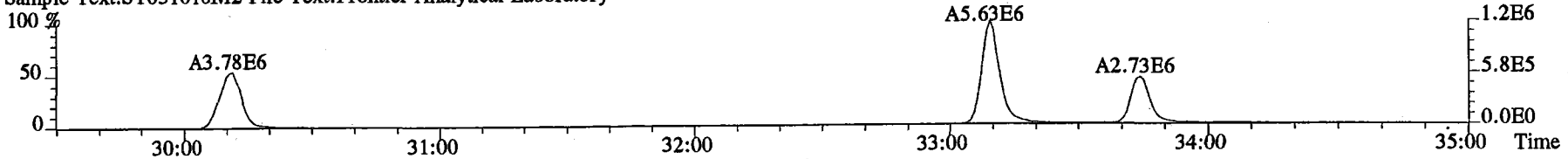
File:10MAR10M #1-391 Acq:11-MAR-2010 03:33:24 GC EI+ Voltage SIR Autospec-Ultima
331.9368 S:16 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST031010M2 File Text:Frontier Analytical Laboratory



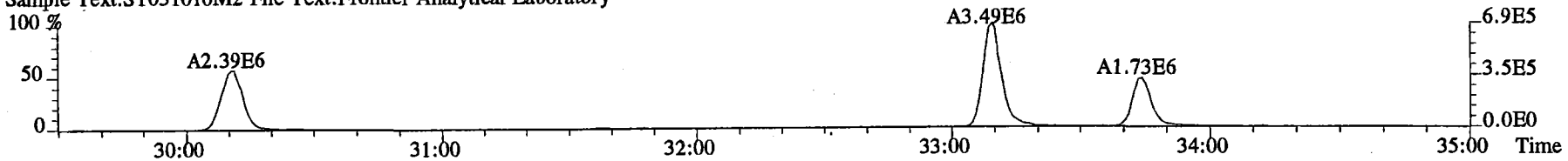
File:10MAR10M #1-391 Acq:11-MAR-2010 03:33:24 GC EI+ Voltage SIR Autospec-Ultima
333.9339 S:16 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST031010M2 File Text:Frontier Analytical Laboratory



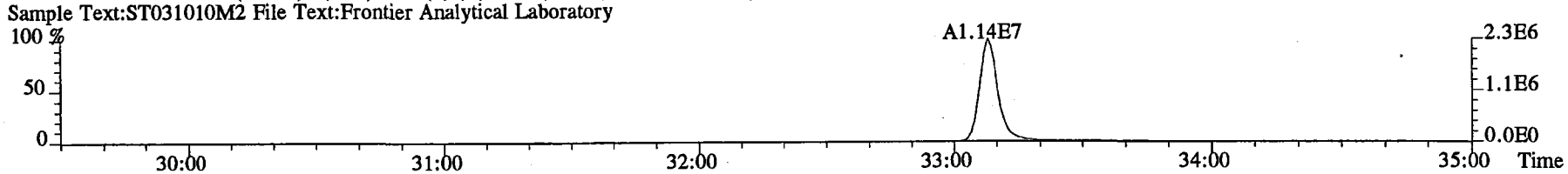
File:10MAR10M #1-424 Acq:11-MAR-2010 03:33:24 GC EI+ Voltage SIR Autospec-Ultima
355.8546 S:16 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST031010M2 File Text:Frontier Analytical Laboratory



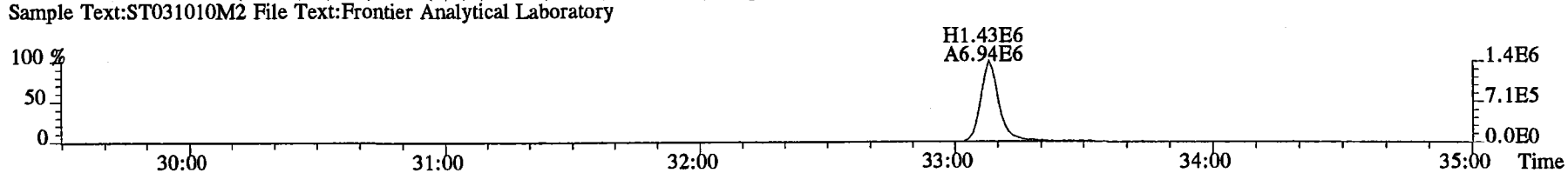
File:10MAR10M #1-424 Acq:11-MAR-2010 03:33:24 GC EI+ Voltage SIR Autospec-Ultima
357.8517 S:16 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST031010M2 File Text:Frontier Analytical Laboratory



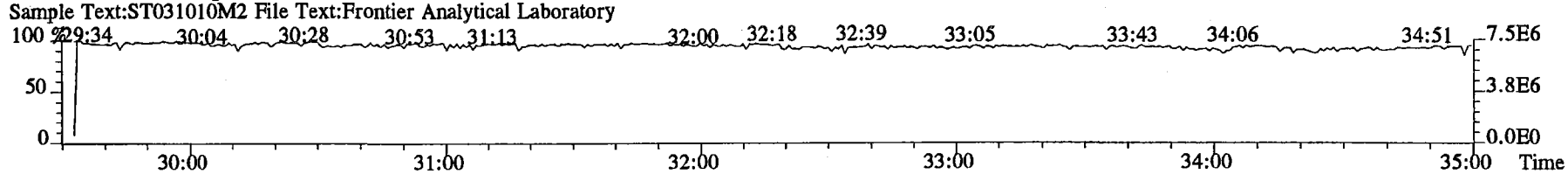
File:10MAR10M #1-424 Acq:11-MAR-2010 03:33:24 GC EI+ Voltage SIR Autospec-Ultima
367.8949 S:16 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST031010M2 File Text:Frontier Analytical Laboratory



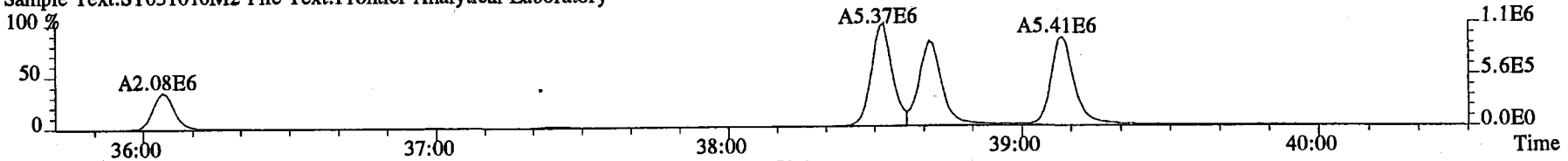
File:10MAR10M #1-424 Acq:11-MAR-2010 03:33:24 GC EI+ Voltage SIR Autospec-Ultima
369.8919 S:16 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST031010M2 File Text:Frontier Analytical Laboratory



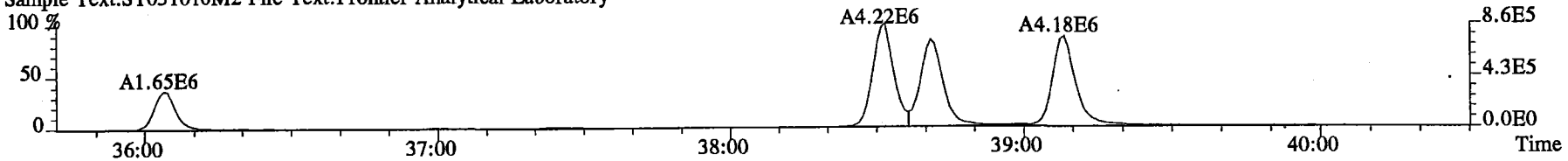
File:10MAR10M #1-424 Acq:11-MAR-2010 03:33:24 GC EI+ Voltage SIR Autospec-Ultima
366.9792 S:16 F:2 Exp:PCDD
Sample Text:ST031010M2 File Text:Frontier Analytical Laboratory



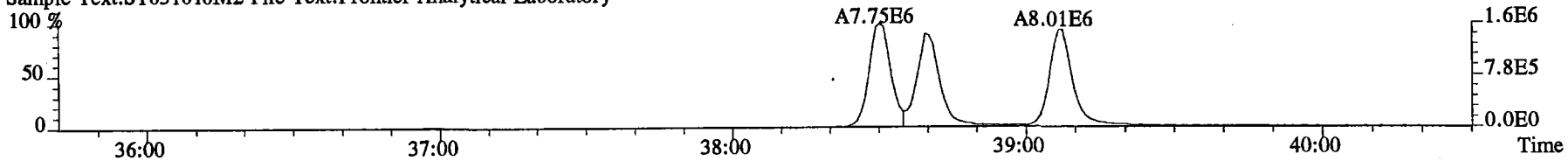
File:10MAR10M #1-464 Acq:11-MAR-2010 03:33:24 GC EI+ Voltage SIR Autospec-Ultima
389.8156 S:16 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST031010M2 File Text:Frontier Analytical Laboratory



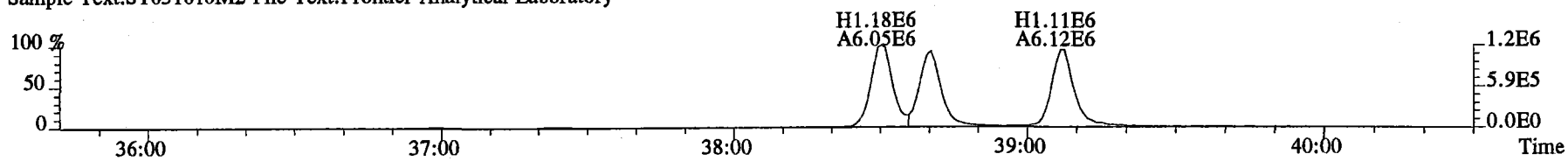
File:10MAR10M #1-464 Acq:11-MAR-2010 03:33:24 GC EI+ Voltage SIR Autospec-Ultima
391.8127 S:16 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST031010M2 File Text:Frontier Analytical Laboratory



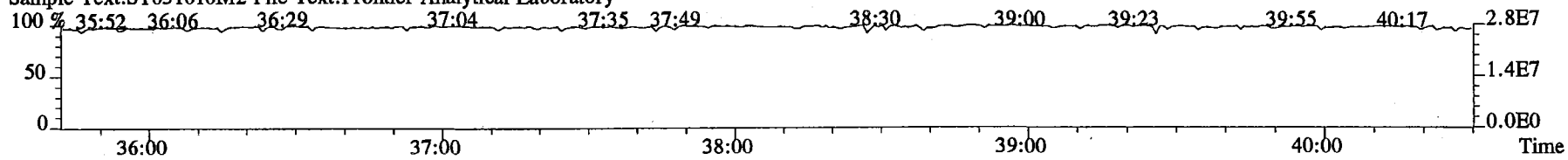
File:10MAR10M #1-464 Acq:11-MAR-2010 03:33:24 GC EI+ Voltage SIR Autospec-Ultima
401.8559 S:16 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST031010M2 File Text:Frontier Analytical Laboratory



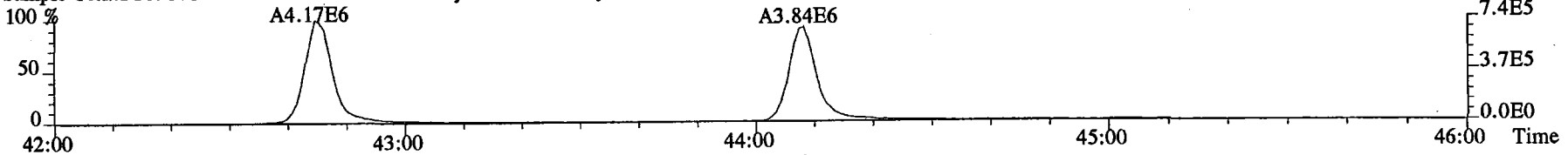
File:10MAR10M #1-464 Acq:11-MAR-2010 03:33:24 GC EI+ Voltage SIR Autospec-Ultima
403.8530 S:16 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST031010M2 File Text:Frontier Analytical Laboratory



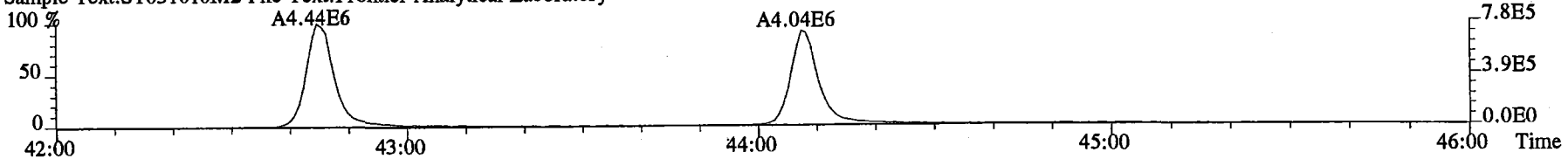
File:10MAR10M #1-464 Acq:11-MAR-2010 03:33:24 GC EI+ Voltage SIR Autospec-Ultima
380.9760 S:16 F:3 Exp:PCDD
Sample Text:ST031010M2 File Text:Frontier Analytical Laboratory



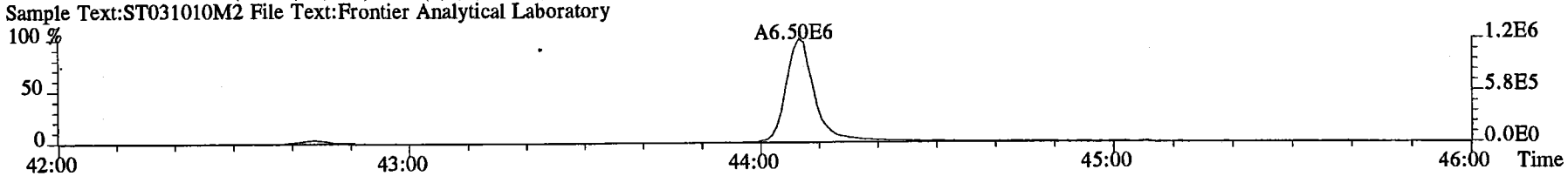
File:10MAR10M #1-541 Acq:11-MAR-2010 03:33:24 GC EI+ Voltage SIR Autospec-Ultima
423.7767 S:16 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST031010M2 File Text:Frontier Analytical Laboratory



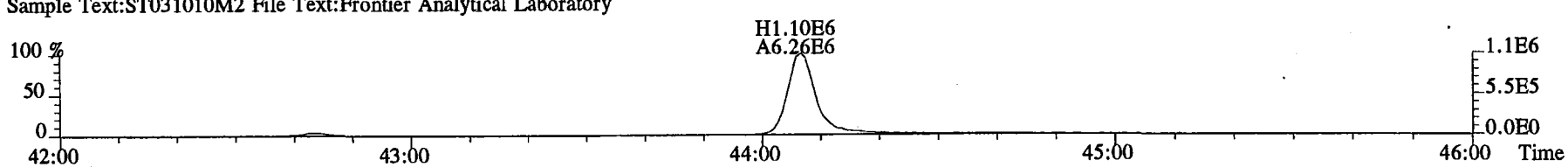
File:10MAR10M #1-541 Acq:11-MAR-2010 03:33:24 GC EI+ Voltage SIR Autospec-Ultima
425.7737 S:16 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST031010M2 File Text:Frontier Analytical Laboratory



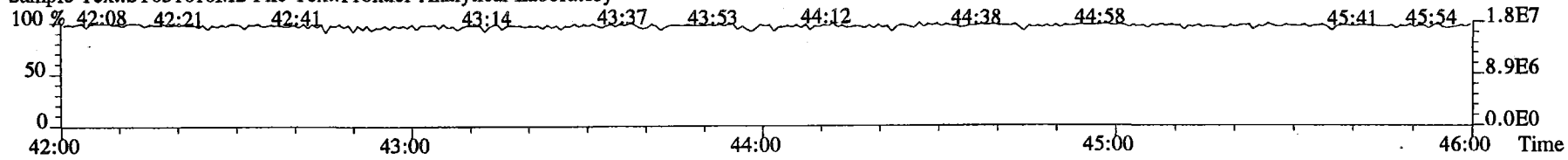
File:10MAR10M #1-541 Acq:11-MAR-2010 03:33:24 GC EI+ Voltage SIR Autospec-Ultima
435.8169 S:16 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST031010M2 File Text:Frontier Analytical Laboratory



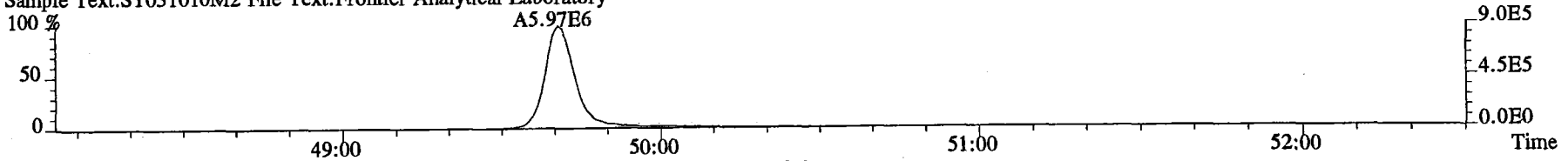
File:10MAR10M #1-541 Acq:11-MAR-2010 03:33:24 GC EI+ Voltage SIR Autospec-Ultima
437.8140 S:16 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST031010M2 File Text:Frontier Analytical Laboratory



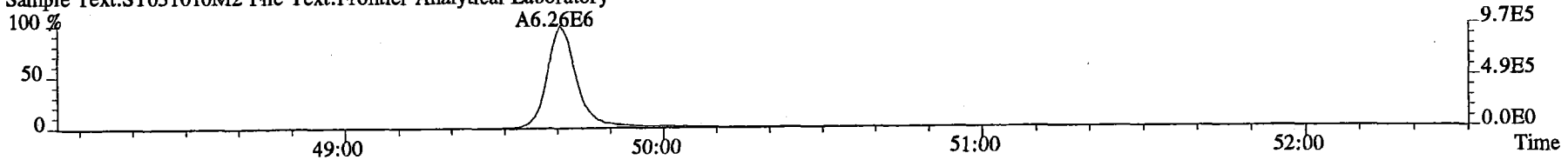
File:10MAR10M #1-541 Acq:11-MAR-2010 03:33:24 GC EI+ Voltage SIR Autospec-Ultima
430.9728 S:16 F:4 Exp:PCDD
Sample Text:ST031010M2 File Text:Frontier Analytical Laboratory



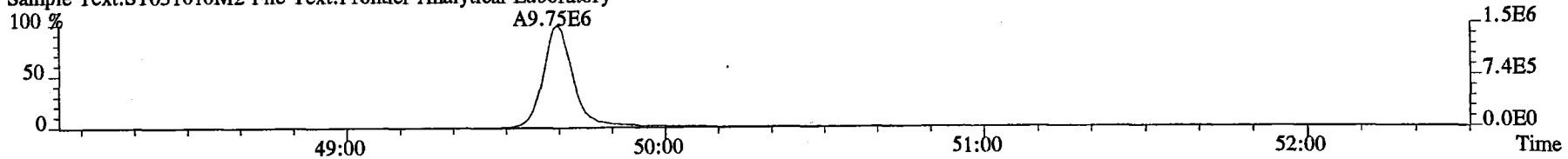
File:10MAR10M #1-347 Acq:11-MAR-2010 03:33:24 GC EI+ Voltage SIR Autospec-Ultima
457.7377 S:16 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST031010M2 File Text:Frontier Analytical Laboratory



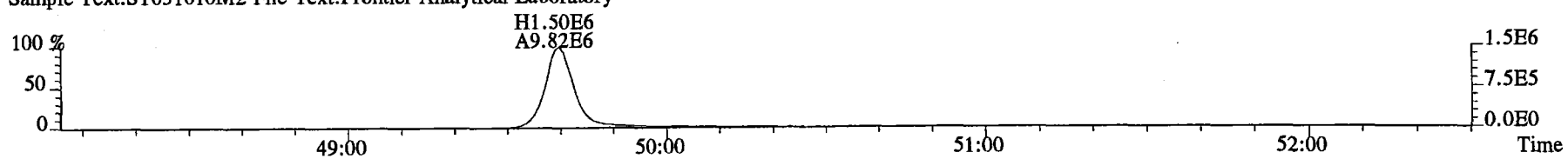
File:10MAR10M #1-347 Acq:11-MAR-2010 03:33:24 GC EI+ Voltage SIR Autospec-Ultima
459.7348 S:16 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST031010M2 File Text:Frontier Analytical Laboratory



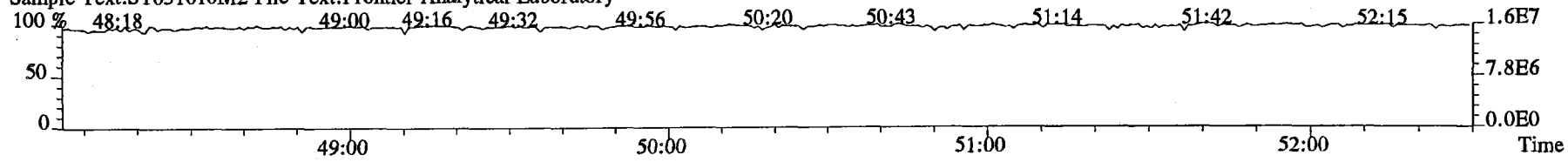
File:10MAR10M #1-347 Acq:11-MAR-2010 03:33:24 GC EI+ Voltage SIR Autospec-Ultima
469.7780 S:16 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST031010M2 File Text:Frontier Analytical Laboratory



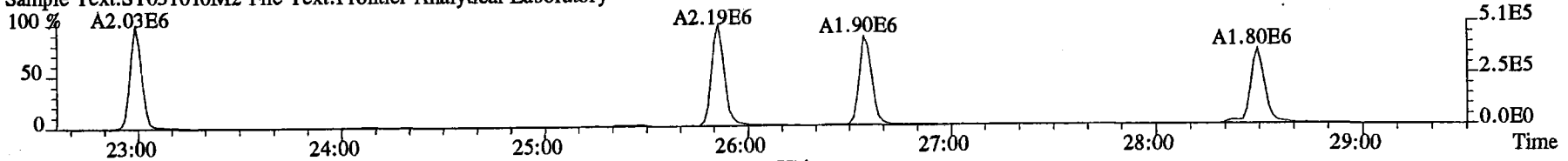
File:10MAR10M #1-347 Acq:11-MAR-2010 03:33:24 GC EI+ Voltage SIR Autospec-Ultima
471.7750 S:16 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST031010M2 File Text:Frontier Analytical Laboratory



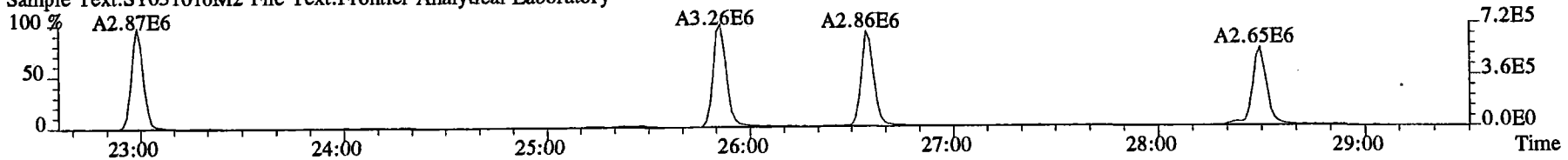
File:10MAR10M #1-347 Acq:11-MAR-2010 03:33:24 GC EI+ Voltage SIR Autospec-Ultima
454.9728 S:16 F:5 Exp:PCDD
Sample Text:ST031010M2 File Text:Frontier Analytical Laboratory



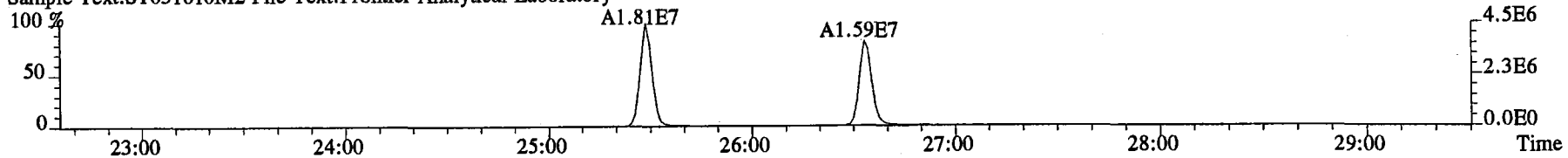
File:10MAR10M #1-391 Acq:11-MAR-2010 03:33:24 GC EI+ Voltage SIR Autospec-Ultima
303.9016 S:16 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST031010M2 File Text:Frontier Analytical Laboratory



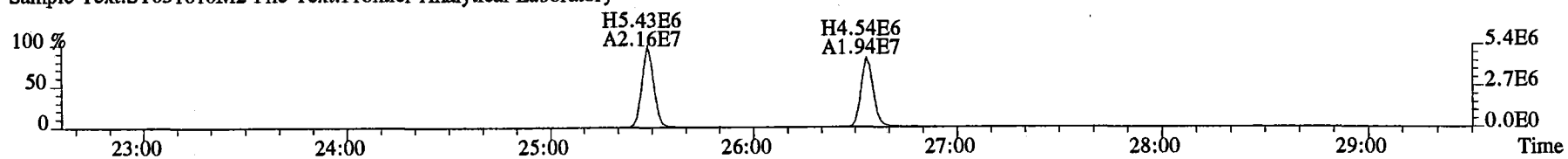
File:10MAR10M #1-391 Acq:11-MAR-2010 03:33:24 GC EI+ Voltage SIR Autospec-Ultima
305.8987 S:16 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST031010M2 File Text:Frontier Analytical Laboratory



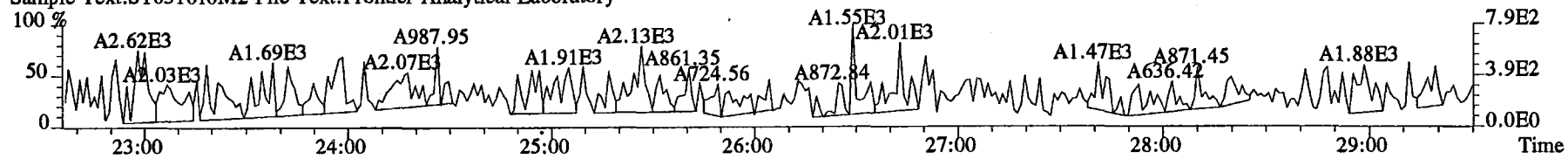
File:10MAR10M #1-391 Acq:11-MAR-2010 03:33:24 GC EI+ Voltage SIR Autospec-Ultima
315.9419 S:16 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST031010M2 File Text:Frontier Analytical Laboratory



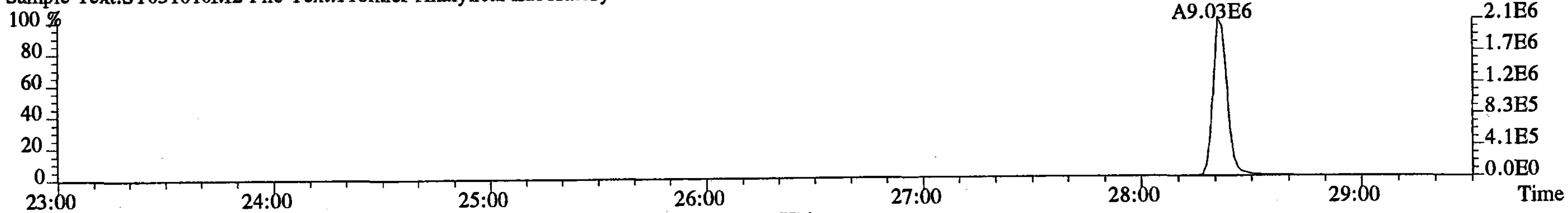
File:10MAR10M #1-391 Acq:11-MAR-2010 03:33:24 GC EI+ Voltage SIR Autospec-Ultima
317.9389 S:16 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST031010M2 File Text:Frontier Analytical Laboratory



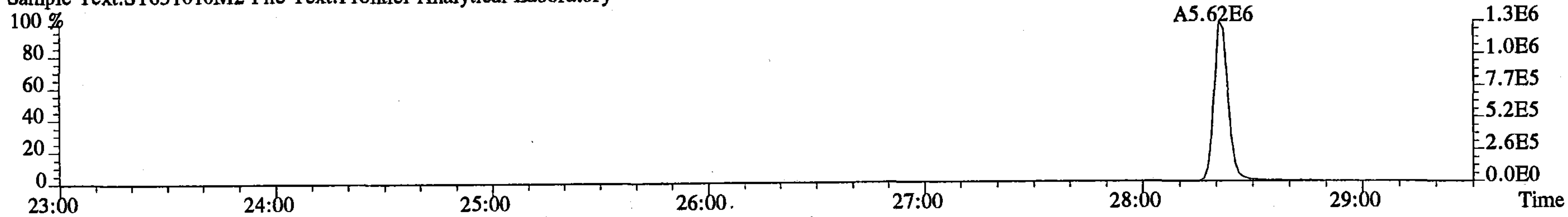
File:10MAR10M #1-391 Acq:11-MAR-2010 03:33:24 GC EI+ Voltage SIR Autospec-Ultima
375.8364 S:16 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST031010M2 File Text:Frontier Analytical Laboratory



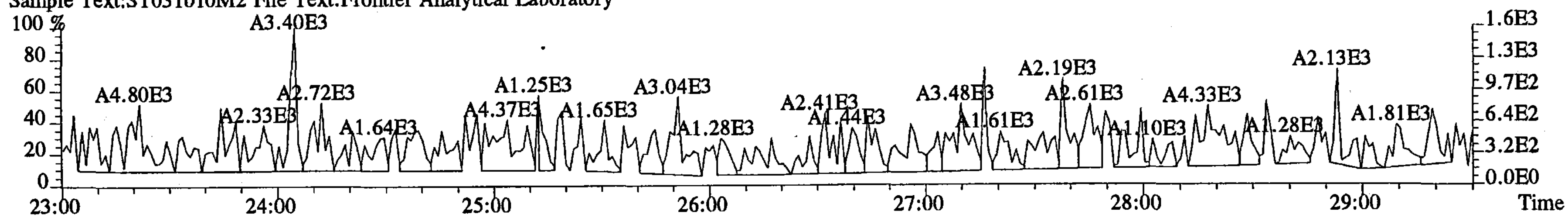
File:10MAR10M #1-391 Acq:11-MAR-2010 03:33:24 GC EI+ Voltage SIR Autospec-Ultima
339.8597 S:16 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST031010M2 File Text:Frontier Analytical Laboratory



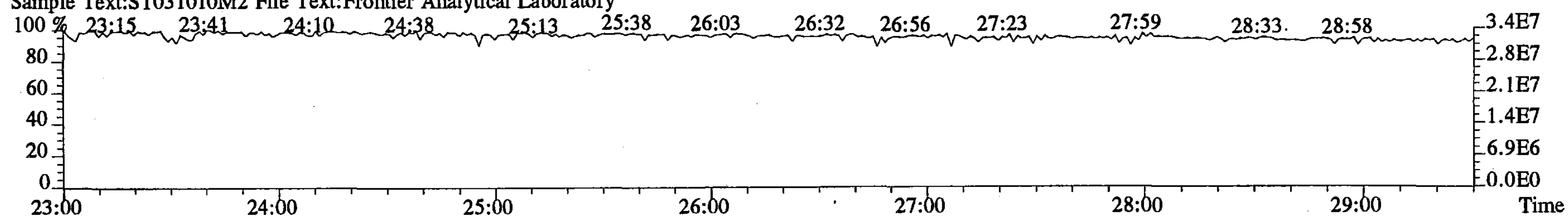
File:10MAR10M #1-391 Acq:11-MAR-2010 03:33:24 GC EI+ Voltage SIR Autospec-Ultima
341.8568 S:16 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST031010M2 File Text:Frontier Analytical Laboratory



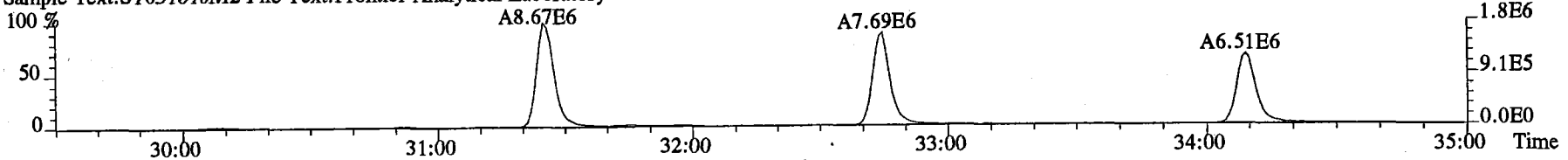
File:10MAR10M #1-391 Acq:11-MAR-2010 03:33:24 GC EI+ Voltage SIR Autospec-Ultima
409.7974 S:16 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST031010M2 File Text:Frontier Analytical Laboratory



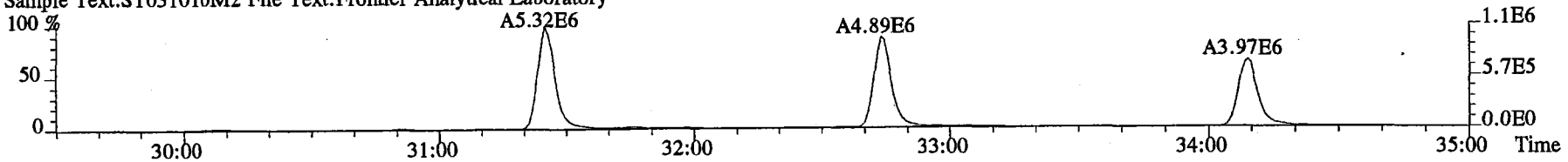
File:10MAR10M #1-391 Acq:11-MAR-2010 03:33:24 GC EI+ Voltage SIR Autospec-Ultima
330.9792 S:16 Exp:PCDD
Sample Text:ST031010M2 File Text:Frontier Analytical Laboratory



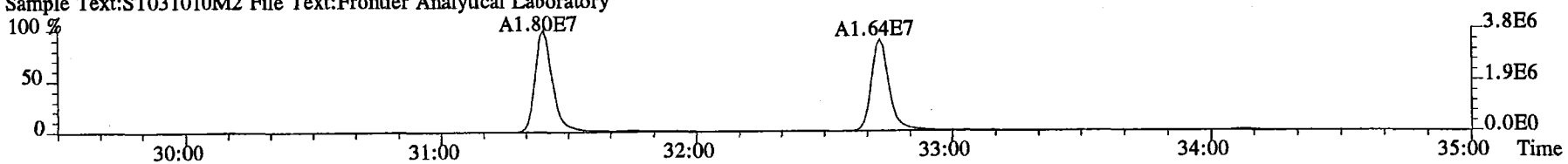
File:10MAR10M #1-424 Acq:11-MAR-2010 03:33:24 GC EI+ Voltage SIR Autospec-Ultima
339.8597 S:16 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST031010M2 File Text:Frontier Analytical Laboratory



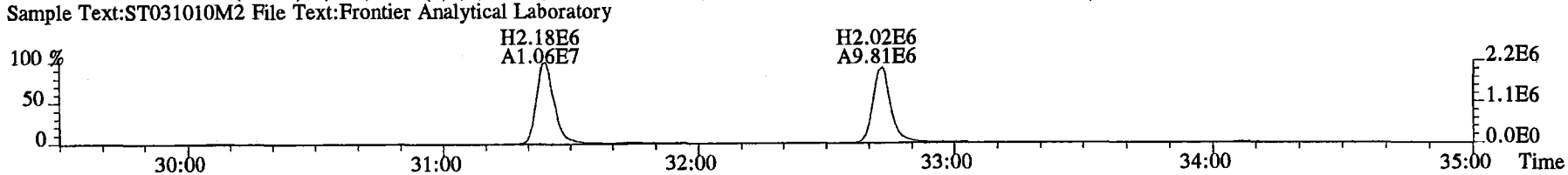
File:10MAR10M #1-424 Acq:11-MAR-2010 03:33:24 GC EI+ Voltage SIR Autospec-Ultima
341.8568 S:16 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST031010M2 File Text:Frontier Analytical Laboratory



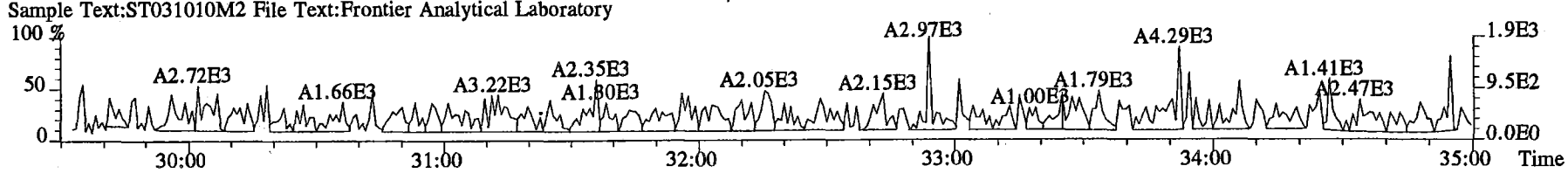
File:10MAR10M #1-424 Acq:11-MAR-2010 03:33:24 GC EI+ Voltage SIR Autospec-Ultima
351.9000 S:16 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST031010M2 File Text:Frontier Analytical Laboratory



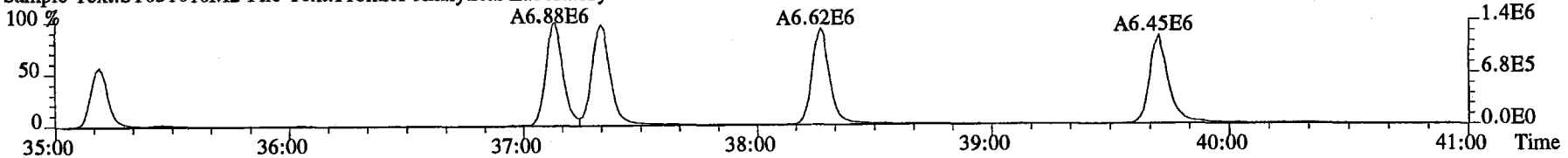
File:10MAR10M #1-424 Acq:11-MAR-2010 03:33:24 GC EI+ Voltage SIR Autospec-Ultima
353.8970 S:16 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST031010M2 File Text:Frontier Analytical Laboratory



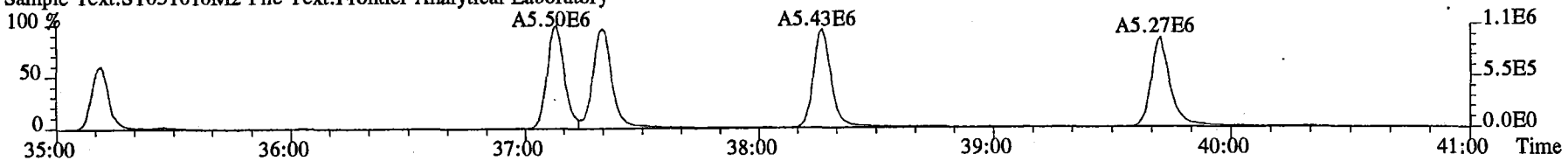
File:10MAR10M #1-424 Acq:11-MAR-2010 03:33:24 GC EI+ Voltage SIR Autospec-Ultima
409.7974 S:16 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST031010M2 File Text:Frontier Analytical Laboratory



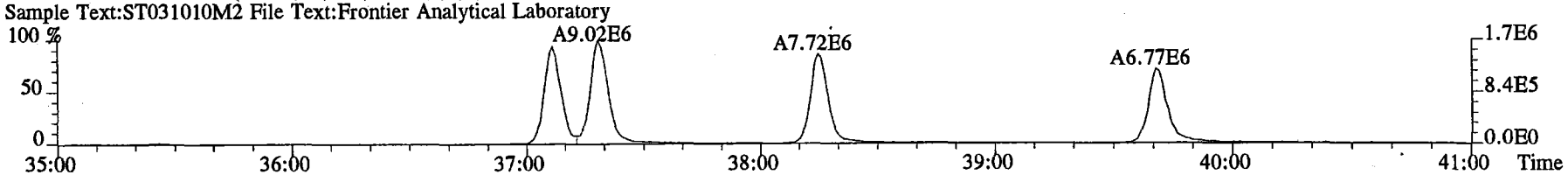
File:10MAR10M #1-464 Acq:11-MAR-2010 03:33:24 GC EI+ Voltage SIR Autospec-Ultima
373.8207 S:16 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST031010M2 File Text:Frontier Analytical Laboratory



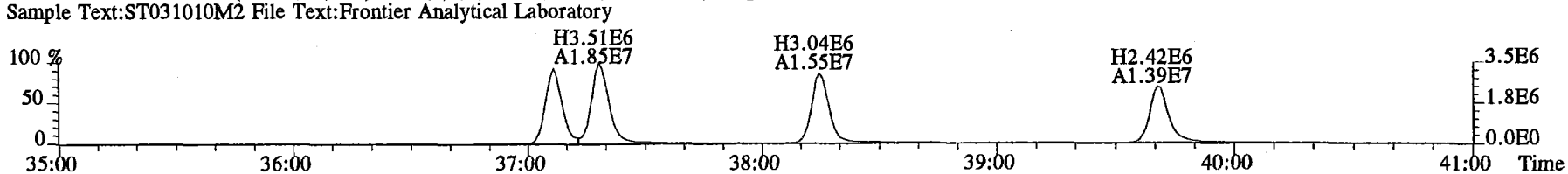
File:10MAR10M #1-464 Acq:11-MAR-2010 03:33:24 GC EI+ Voltage SIR Autospec-Ultima
375.8178 S:16 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST031010M2 File Text:Frontier Analytical Laboratory



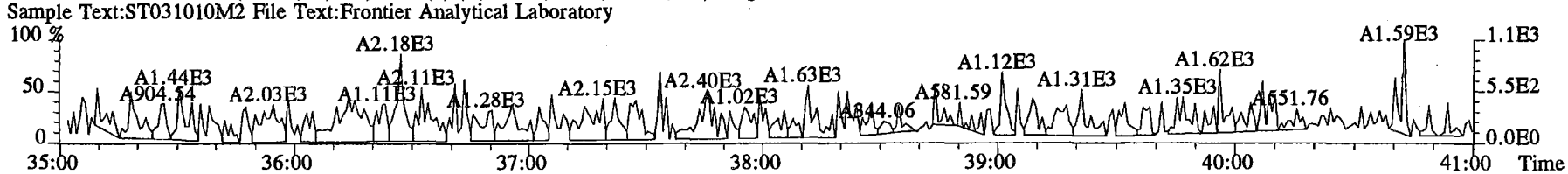
File:10MAR10M #1-464 Acq:11-MAR-2010 03:33:24 GC EI+ Voltage SIR Autospec-Ultima
383.8639 S:16 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST031010M2 File Text:Frontier Analytical Laboratory



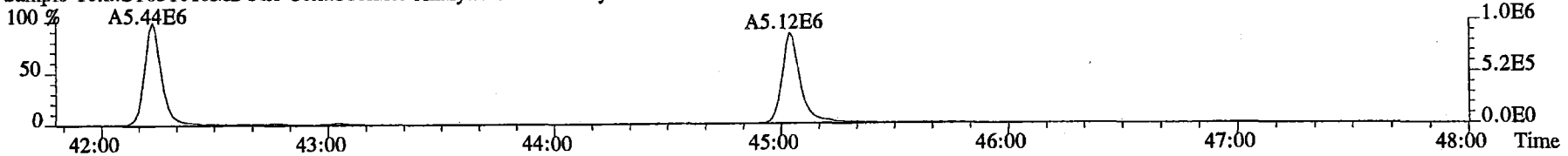
File:10MAR10M #1-464 Acq:11-MAR-2010 03:33:24 GC EI+ Voltage SIR Autospec-Ultima
385.8610 S:16 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST031010M2 File Text:Frontier Analytical Laboratory



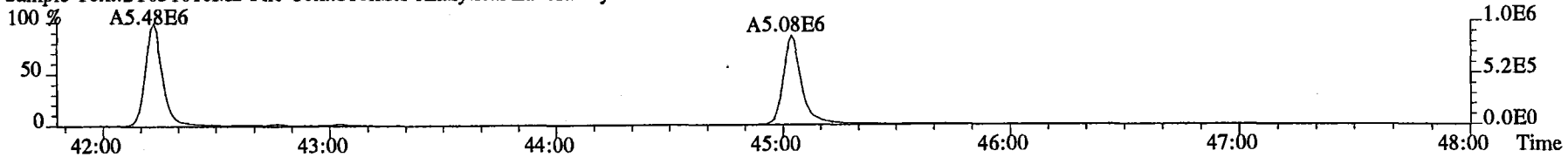
File:10MAR10M #1-464 Acq:11-MAR-2010 03:33:24 GC EI+ Voltage SIR Autospec-Ultima
445.7555 S:16 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST031010M2 File Text:Frontier Analytical Laboratory



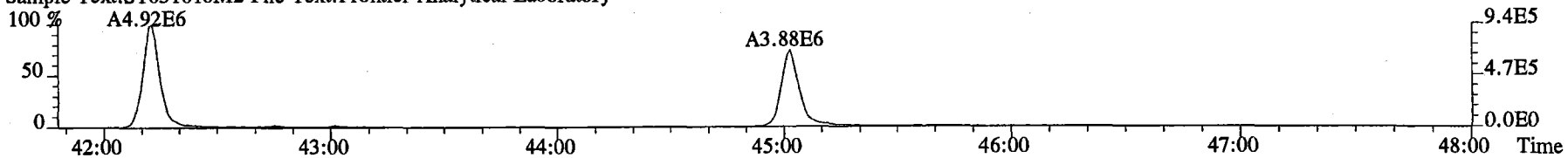
File:10MAR10M #1-541 Acq:11-MAR-2010 03:33:24 GC EI+ Voltage SIR Autospec-Ultima
407.7818 S:16 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST031010M2 File Text:Frontier Analytical Laboratory



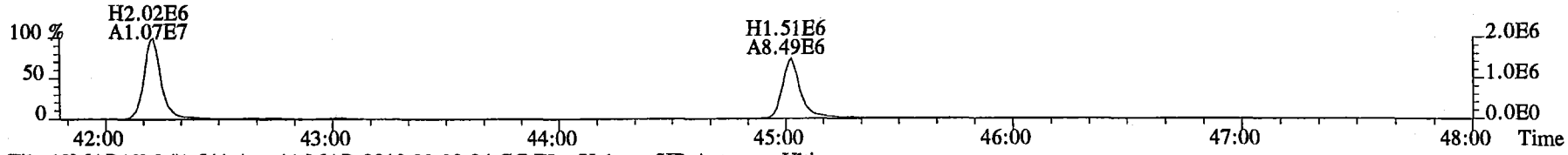
File:10MAR10M #1-541 Acq:11-MAR-2010 03:33:24 GC EI+ Voltage SIR Autospec-Ultima
409.7788 S:16 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST031010M2 File Text:Frontier Analytical Laboratory



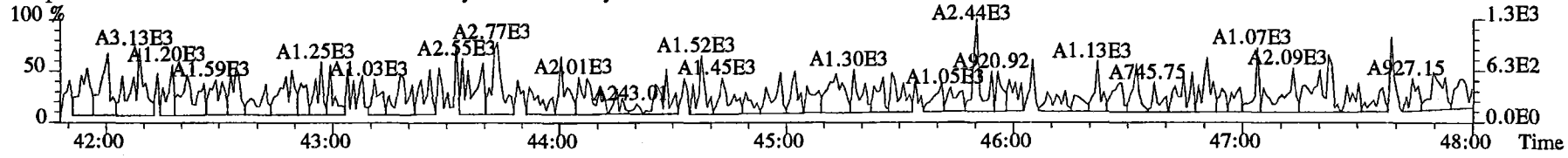
File:10MAR10M #1-541 Acq:11-MAR-2010 03:33:24 GC EI+ Voltage SIR Autospec-Ultima
417.8253 S:16 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST031010M2 File Text:Frontier Analytical Laboratory



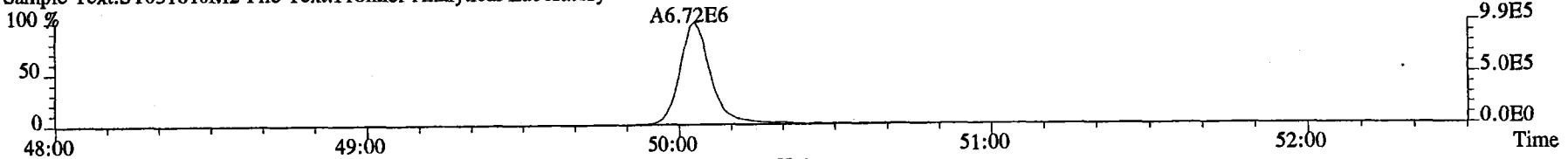
File:10MAR10M #1-541 Acq:11-MAR-2010 03:33:24 GC EI+ Voltage SIR Autospec-Ultima
419.8220 S:16 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST031010M2 File Text:Frontier Analytical Laboratory



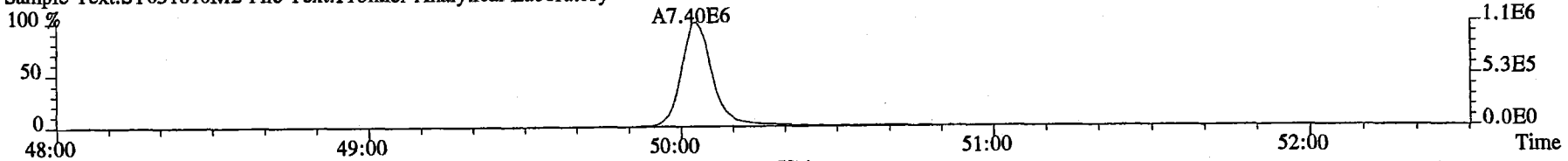
File:10MAR10M #1-541 Acq:11-MAR-2010 03:33:24 GC EI+ Voltage SIR Autospec-Ultima
479.7165 S:16 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST031010M2 File Text:Frontier Analytical Laboratory



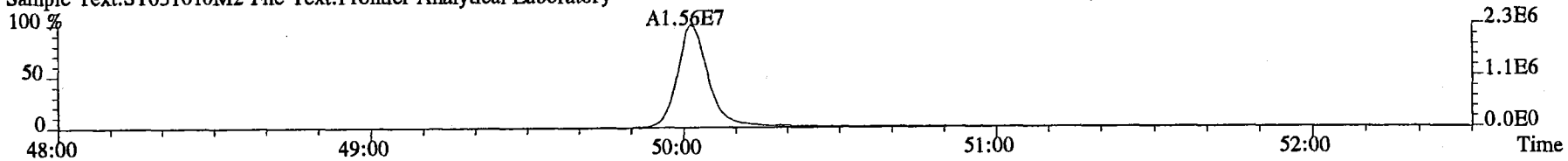
File:10MAR10M #1-347 Acq:11-MAR-2010 03:33:24 GC EI+ Voltage SIR Autospec-Ultima
441.7428 S:16 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST031010M2 File Text:Frontier Analytical Laboratory



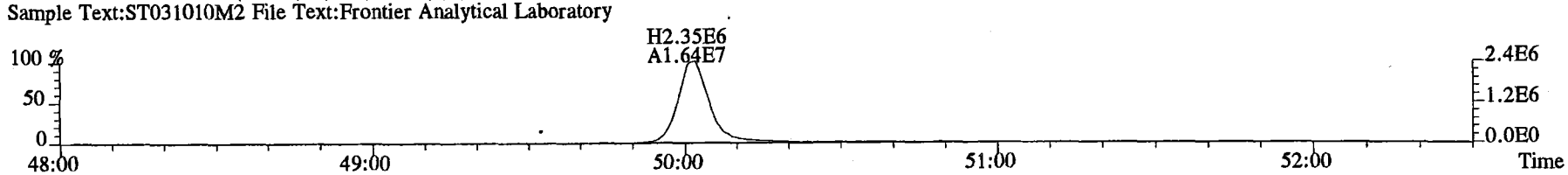
File:10MAR10M #1-347 Acq:11-MAR-2010 03:33:24 GC EI+ Voltage SIR Autospec-Ultima
443.7398 S:16 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST031010M2 File Text:Frontier Analytical Laboratory



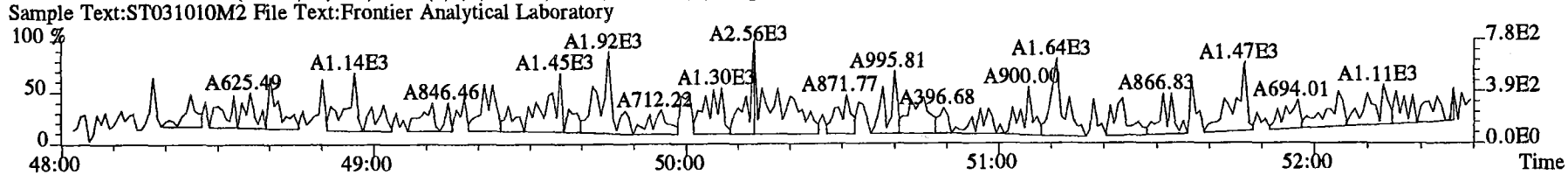
File:10MAR10M #1-347 Acq:11-MAR-2010 03:33:24 GC EI+ Voltage SIR Autospec-Ultima
453.7831 S:16 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST031010M2 File Text:Frontier Analytical Laboratory



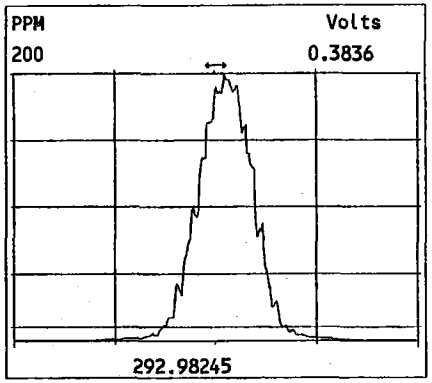
File:10MAR10M #1-347 Acq:11-MAR-2010 03:33:24 GC EI+ Voltage SIR Autospec-Ultima
455.7801 S:16 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST031010M2 File Text:Frontier Analytical Laboratory

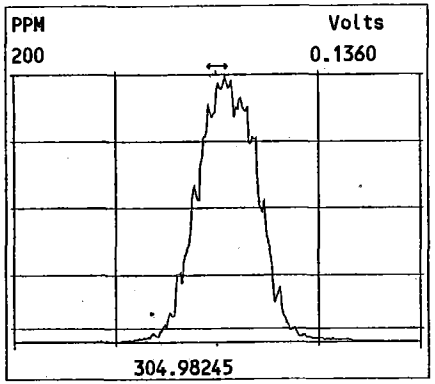


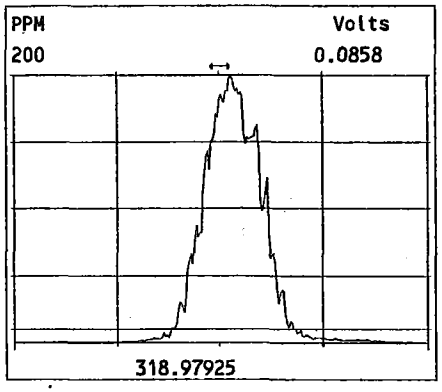
File:10MAR10M #1-347 Acq:11-MAR-2010 03:33:24 GC EI+ Voltage SIR Autospec-Ultima
513.6775 S:16 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST031010M2 File Text:Frontier Analytical Laboratory

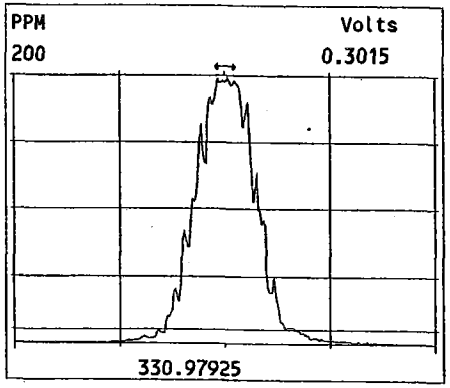


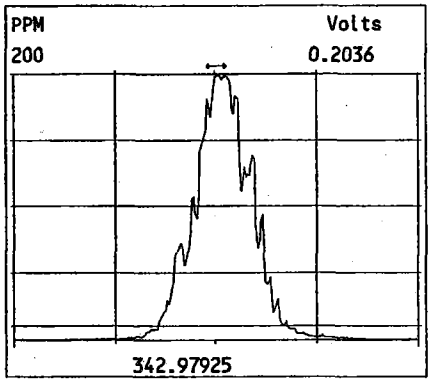
Peak Locate Examination:11-MAR-2010:04:30 File:10MAR10M_RES_CHECK
Experiment:PCDD Function:1 Reference:PFK

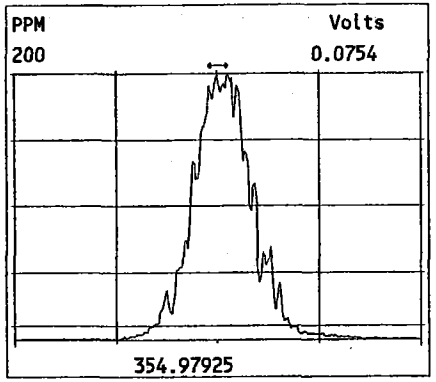


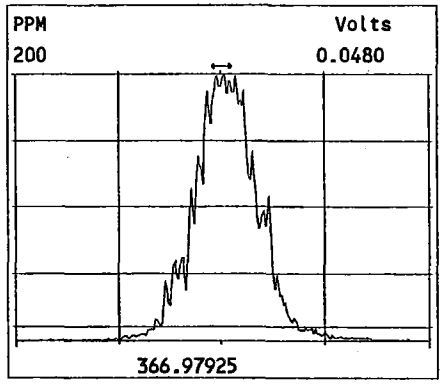


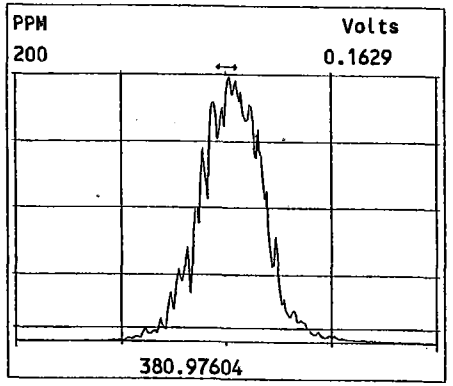


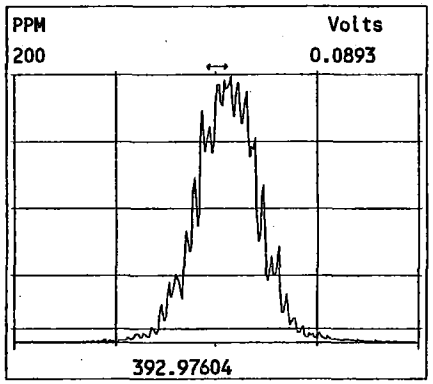


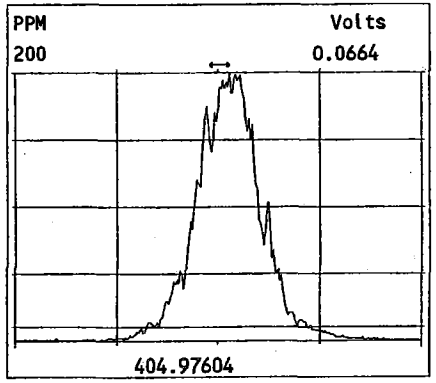


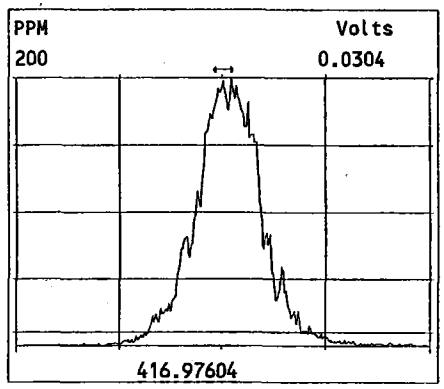




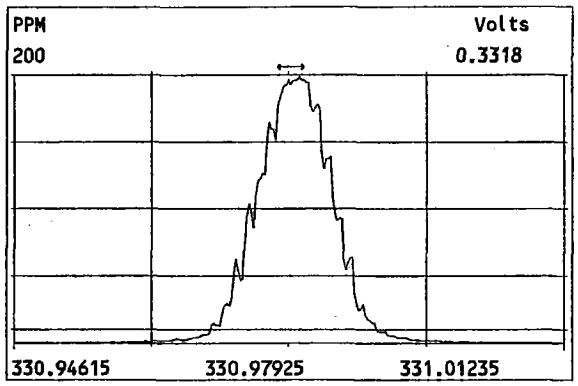


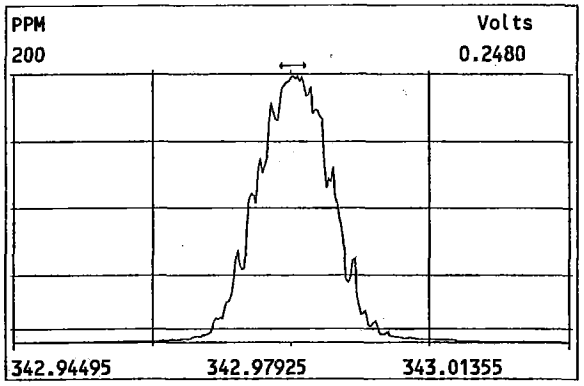


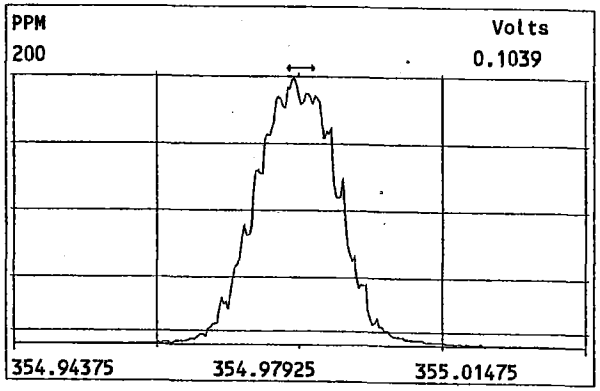


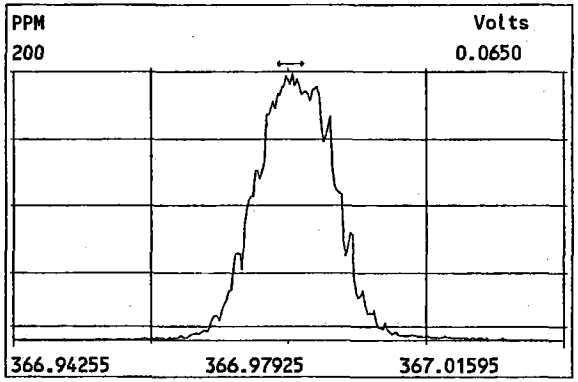


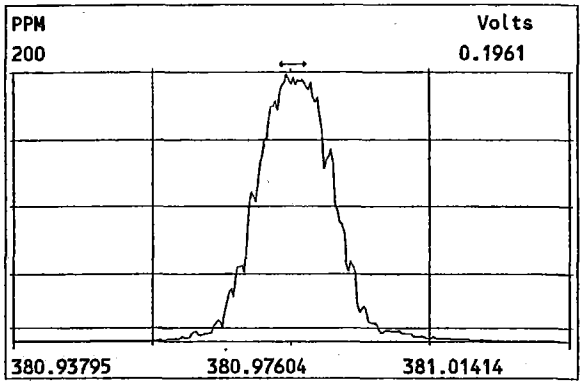
Peak Locate Examination:11-MAR-2010:04:32 File:10MAR10M_RES_CHECK
Experiment:PCDD Function:2 Reference:PFK

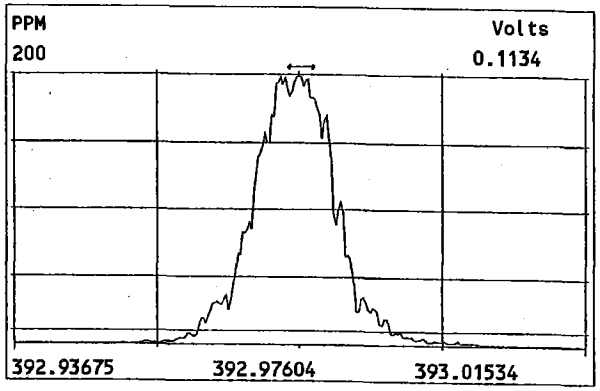


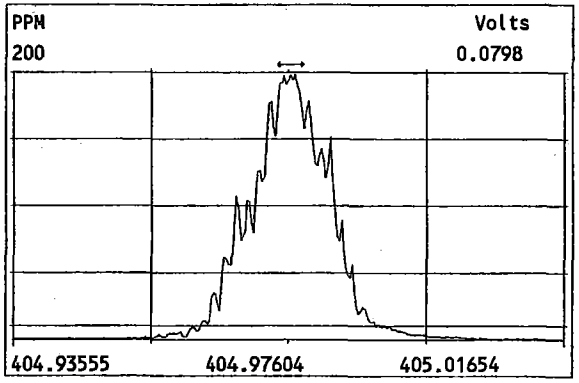


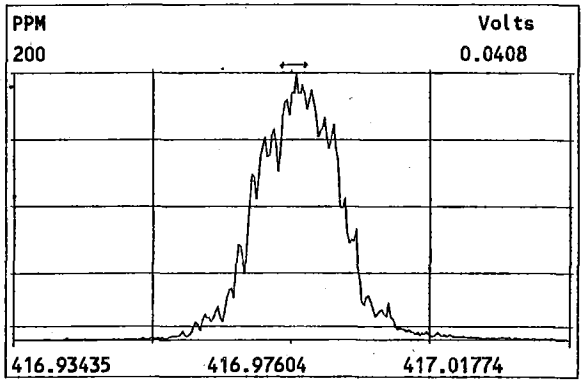




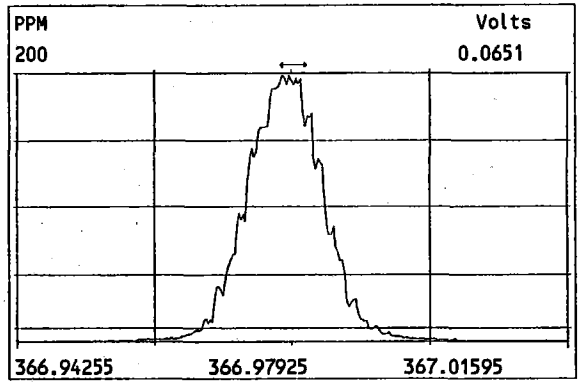


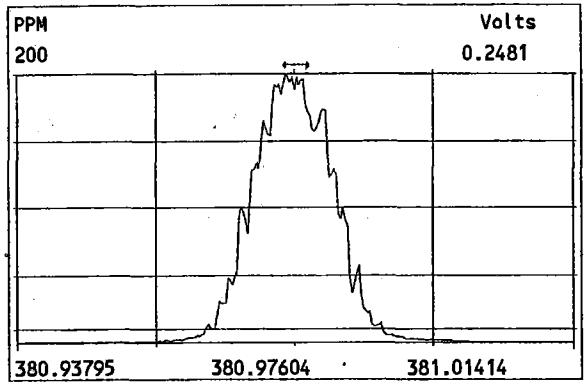


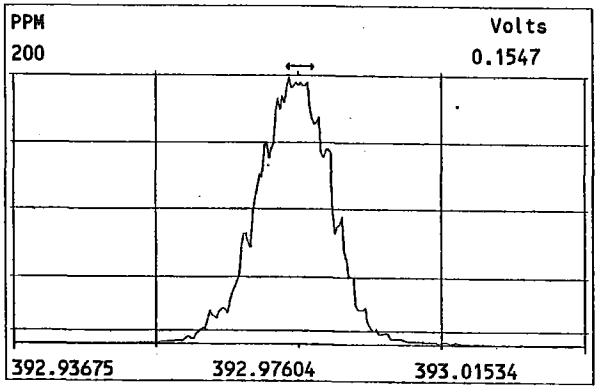


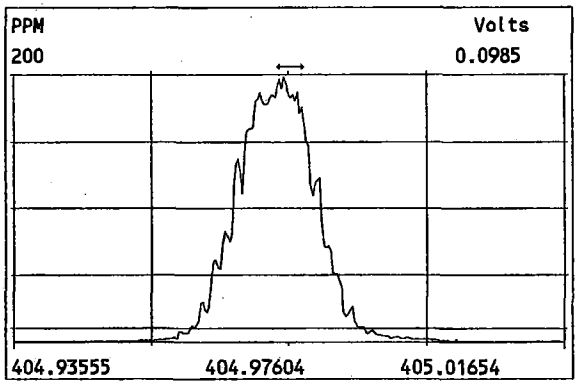


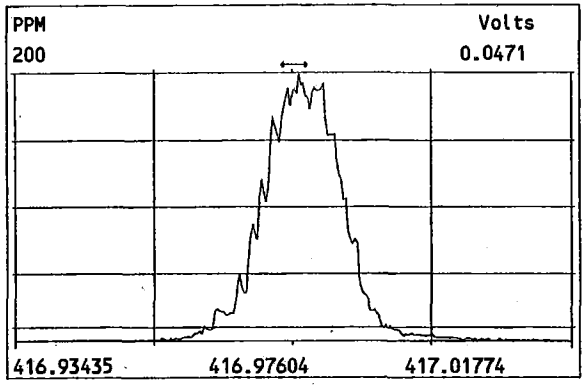
Peak Locate Examination:11-MAR-2010:04:34 File:10MAR10M_RES_CHECK
Experiment:PCDD Function:3 Reference:PFK

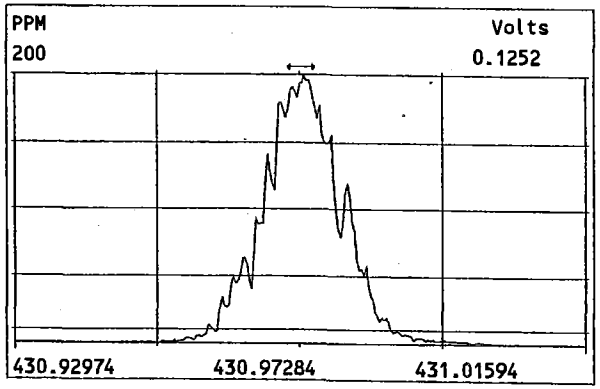


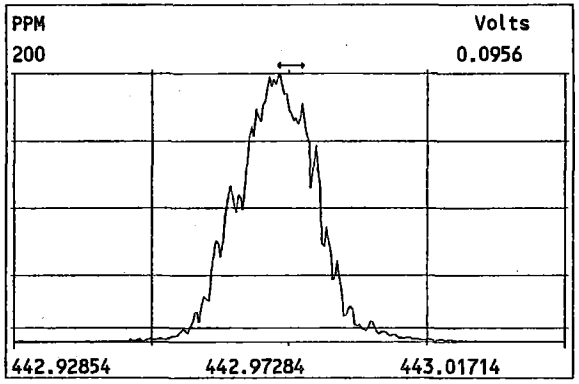


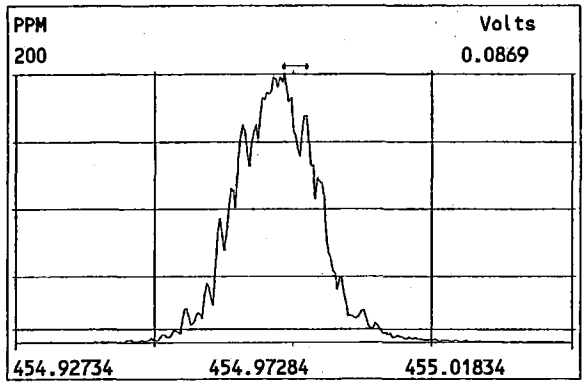




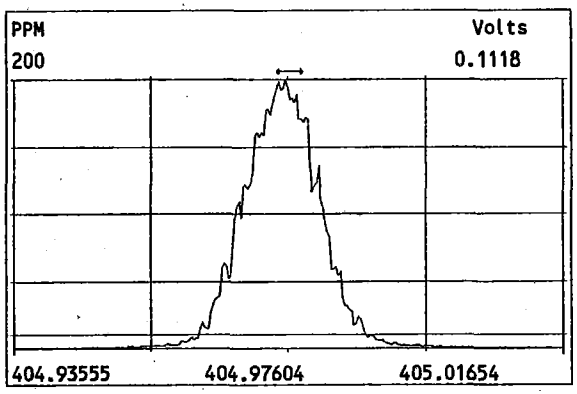


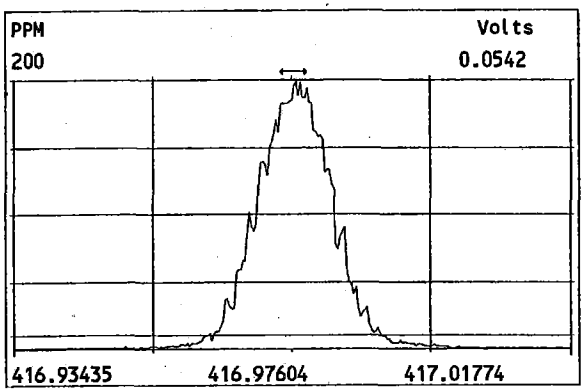


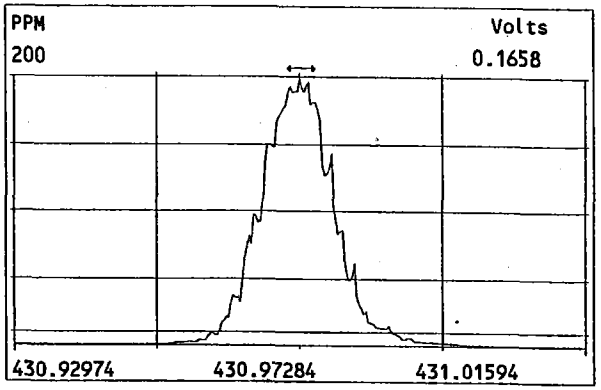


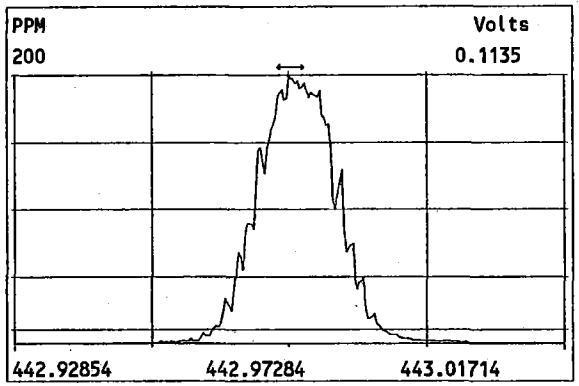


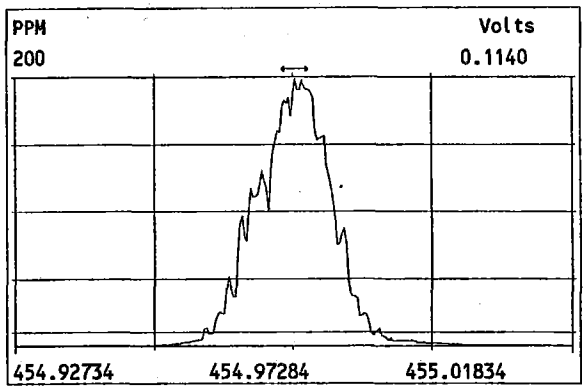
Peak Locate Examination:11-MAR-2010:04:36 File:10MAR10M_RES_CHECK
Experiment:PCDD Function:4 Reference:PFK

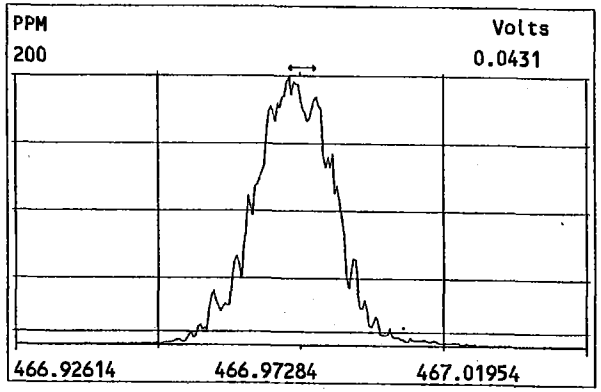


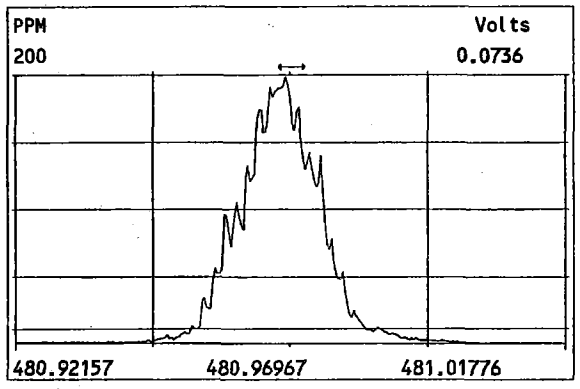












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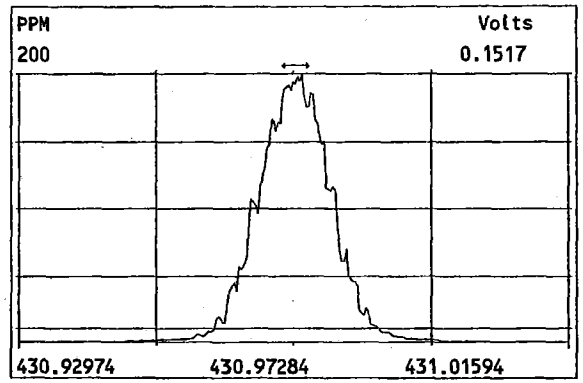
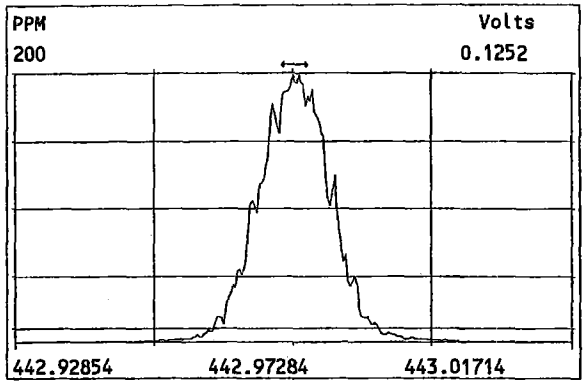
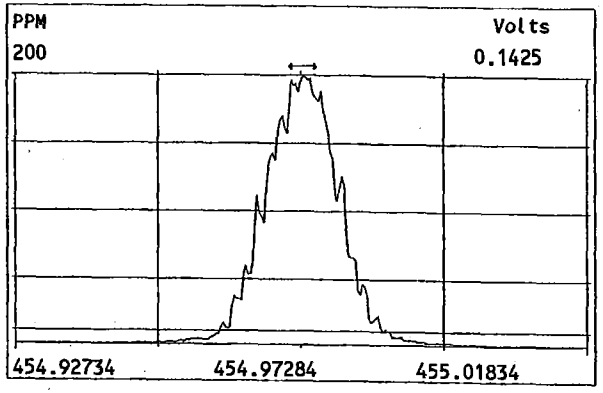
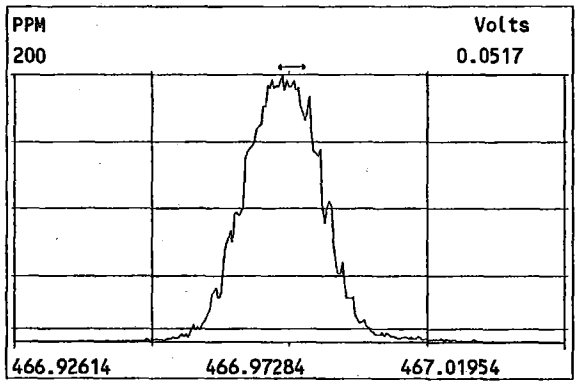
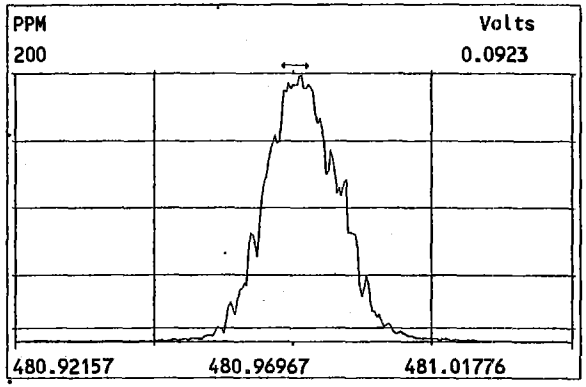
Experiment:PCDD Function:5 Reference:PFK

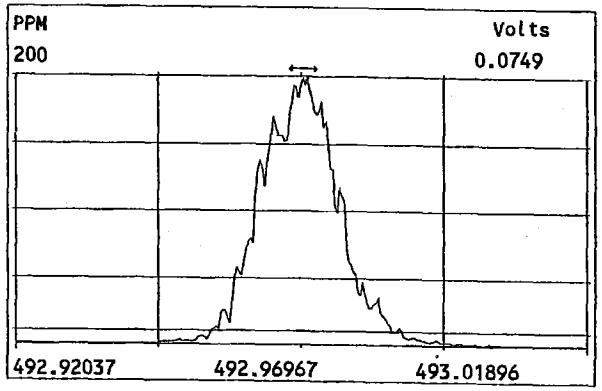


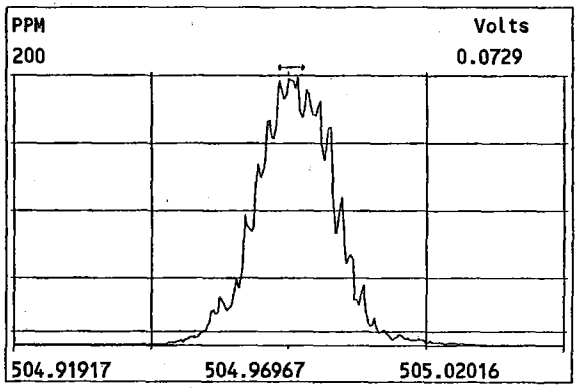


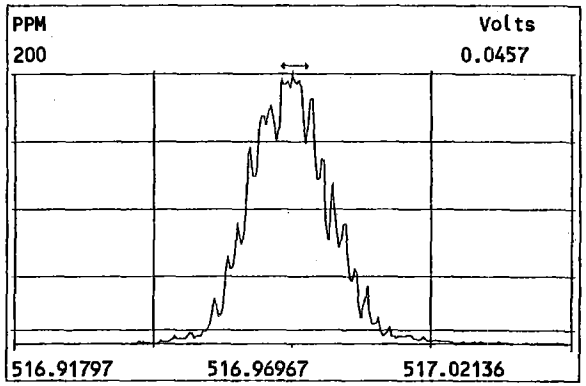












Analytical Resources, Incorporated
Analytical Chemists and Consultants

March 18, 2010

Jessi Massingale
Floyd-Snider Inc.
601 Union Street, Suite 600
Seattle, WA 98101-2341

RE: Client Project: Lora Lake Apartments, POS-LLA
ARI Job No: QL85

Dear Ms. Massingale:

Please find enclosed the original Chain-of-Custody (COC) record, sample receipt documentation, and the final data package for samples from the project referenced above.

Sample receipt and detail of these analyses are discussed in the Case Narrative.

An electronic copy of this package will remain on file with ARI. Should you have any questions or problems, please feel free to contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.

Susan D. Dunnihoo
Director, Client Services
sue@arilabs.com
206-695-6207

Enclosures

cc: eFile QL85

4611 South 134th Place, Suite 100 • Tukwila WA 98168 • **206-695-6200** • **206-695-6201** fax

Chain of Custody
Documentation

prepared
for

Floyd-Snider

Project: Lora Lakes Apartments, POS-LLA

ARI JOB NO: QL85

prepared
by

Analytical Resources, Inc.

QL85

Chain of Custody Record & Laboratory Analysis Request

Port of Seattle

ARI Assigned Number:	Turn-around Requested: Standard
ARI Client Company: Floyd/Snider	Phone: 206-292-2078
Client Contact: Matt Woltman / Jessi Massingale	
Client Project Name: Lora Lake Apartments	
Client Project #: POS-LLA	Samplers: D. Metallo B. Kwasnowski

Date: 2-26-2010
Page: 1 of 1
No. of Coolers: 1 Cooler Temps:

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	Analysis Requested: ① NW-TPH DX	VOC 8260C - SIM							Notes/Comments
CB31A022610GRAB	2.26.10	1430	W	13	X	X							Run MS/MSD
CB4857022610GRAB	2.26.10	1500	W	5	X	X							
CB1022610GRAB	2.26.10	1315	W	5	X	X							
CB1D2D22610GRAB	2.26.10	1400	W	5	X	X							
TB022610	2-26-10	0830	W	3	X								

Comments/Special Instructions
① Acid/Silica gel clean up for TPH-DX

Relinquished by: (Signature)	Received by: (Signature)	Relinquished by: (Signature)	Received by: (Signature)
Printed Name: Dave Metallo	Printed Name: BRAD KWASNOWSKI	Printed Name: BRAD KWASNOWSKI	Printed Name: A. Volgardsen
Company: Taylor	Company: TAYLOR ASSOCIATES	Company: TAYLOR ASSOCIATES	Company: ARI
Date & Time: 2-26-10 (1650)	Date & Time: 02/26/10 @ 16:50	Date & Time: 02/26/10 @ 17:00	Date & Time: 2/26/10 1706

QL85 0555

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Floyd Snider
Project Name: Lora Lake Apartments
COC No(s): _____ (NA)
Delivered by: Fed-Ex UPS Courier (Hand Delivered) Other: _____
Assigned ARI Job No: QL85
Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler?	YES	(NO)
Were custody papers included with the cooler?	(YES)	NO
Were custody papers properly filled out (ink, signed, etc.)	(YES)	NO
Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry) 0.6		
If cooler temperature is out of compliance fill out form 00070F	Temp Gun ID#: 90941609	

Cooler Accepted by: AV Date: 2/26/10 Time: 1706

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler?		YES	(NO)
What kind of packing material was used? ... Bubble Wrap (Wet Ice) (Gel Packs) (Baggies) (Foam Block) Paper Other: box			
Was sufficient ice used (if appropriate)?	NA	(YES)	NO
Were all bottles sealed in individual plastic bags?		YES	(NO)
Did all bottles arrive in good condition (unbroken)?		(YES)	NO
Were all bottle labels complete and legible?		(YES)	NO
Did the number of containers listed on COC match with the number of containers received?		(YES)	NO
Did all bottle labels and tags agree with custody papers?		(YES)	NO
Were all bottles used correct for the requested analyses?		(YES)	NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)...	(NA)	YES	NO
Were all VOC vials free of air bubbles?	NA	(YES)	NO
Was sufficient amount of sample sent in each bottle?		(YES)	NO
Date VOC Trip Blank was made at ARI	NA	2/23/10	

Samples Logged by: AV Date: 2/27/10 Time: 915

***** Notify Project Manager of discrepancies or concerns *****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: Date:

Small Air Bubbles ~2mm	Peabubbles' 2-4 mm	LARGE Air Bubbles > 4 mm
• • •	• • •	● ● ●

Small → "sm"
Peabubbles → "pb"
Large → "lg"
Headspace → "hs"

Case Narrative

prepared
for

Floyd-Snider

Project: Lora Lakes Apartments, POS-LLA

ARI JOB NO: QL85

prepared
by

Analytical Resources, Inc.

Case Narrative

Client: Floyd Snider
Project: Lora Lake Apartments, POS-LLA
Matrix: Sediment
ARI Job No.: QL85

Sample receipt

Analytical Resources, Inc. (ARI) accepted four water samples and a trip blank on February 26, 2010 under ARI job QL85. The cooler temperature measured by IR thermometer following ARI SOP was 0.6°C. For further details regarding sample receipt, please refer to the enclosed Cooler Receipt Form.

Volatiles by SW8260C

The samples and associated laboratory QC were analyzed within the method recommended holding times.

Initial and continuing calibrations for the target compound were within limits. Internal standards were within limits.

The surrogate percent recoveries were within control limits.

The method blanks were clean at the reporting limit. The LCS and LCSD percent recoveries and RPD were within control limits.

The matrix spike and matrix spike duplicate percent recoveries and RPD were within limits.

Water sample preservation was confirmed within limits after analysis.

Volatiles by SW8260C SIM

The samples and associated laboratory QC were analyzed within the method recommended holding times.

Initial and continuing calibrations were within limits. Internal standards were within limits.

The surrogate percent recoveries were within control limits.

The method blank was clean at the reporting limit. The LCS and LCSD percent recoveries and RPD were within control limits.

All matrix spike and matrix spike duplicate percent recoveries were within limits.

Water sample preservation was confirmed within limits after analysis.

NW-TPHDx with Acid Silica cleanups

The samples and associated laboratory QC were extracted and analyzed within the method recommended holding times.

Initial and continuing calibrations were within limits.

The surrogate percent recoveries were within control limits.

The method blank was clean at the reporting limits. The LCS percent recovery was within control limits.

The matrix spike and matrix spike duplicate percent recovery and RPD of Diesel was within limits.

Data Reporting Qualifiers

Effective 7/10/2009

Inorganic Data

U Indicates that the target analyte was not detected at the reported concentration

* Duplicate RPD is not within established control limits

B Reported value is less than the CRDL but ≥ the Reporting Limit

N Matrix Spike recovery not within established control limits

NA Not Applicable, analyte not spiked

H The natural concentration of the spiked element is so much greater than the concentration spiked that an accurate determination of spike recovery is not possible

L Analyte concentration is ≤5 times the Reporting Limit and the replicate control limit defaults to ±1 RL instead of the normal 20% RPD

Organic Data

U Indicates that the target analyte was not detected at the reported concentration

* Flagged value is not within established control limits

B Analyte detected in an associated Method Blank at a concentration greater than one-half of ARI's Reporting Limit or 5% of the regulatory limit or 5% of the analyte concentration in the sample.

J Estimated concentration when the value is less than ARI's established reporting limits

D The spiked compound was not detected due to sample extract dilution

E Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

Q Indicates a detected analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20%Drift or minimum RRF).

S Indicates an analyte response that has saturated the detector. The calculated concentration is not valid; a dilution is required to obtain valid quantification of the analyte

NA The flagged analyte was not analyzed for

NR Spiked compound recovery is not reported due to chromatographic interference

NS The flagged analyte was not spiked into the sample

M Estimated value for an analyte detected and confirmed by an analyst but with low spectral match parameters. This flag is used only for GC-MS analyses

M2 The sample contains PCB congeners that do not match any standard Aroclor pattern. The PCBs are identified and quantified as the Aroclor whose pattern most closely matches that of the sample. The reported value is an estimate.

N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification"

Y The analyte is not detected at or above the reported concentration. The reporting limit is raised due to chromatographic interference. The Y flag is equivalent to the U flag with a raised reporting limit.

C The analyte was positively identified on only one of two chromatographic columns. Chromatographic interference prevented a positive identification on the second column

P The analyte was detected on both chromatographic columns but the quantified values differ by ≥40% RPD with no obvious chromatographic interference

Geotechnical Data

A The total of all fines fractions. This flag is used to report total fines when only sieve analysis is requested and balances total grain size with sample weight.

F Samples were frozen prior to particle size determination

SM Sample matrix was not appropriate for the requested analysis. This normally refers to samples contaminated with an organic product that interferes with the sieving process and/or moisture content, porosity and saturation calculations

SS Sample did not contain the proportion of "fines" required to perform the pipette portion of the grain size analysis

W Weight of sample in some pipette aliquots was below the level required for accurate weighting

LCS SOLUTIONS

2/2/2010

LABL	SOLN ID	TEST	CONC. UG/ML	SOLVENT	EXP.
1	1686-1	PCB 1660	20	ACETONE	09/01/10
2#	1472-3	BCOC PEST	10	ACETONE	NA
3	1620-4	PEST	02/04/20	ACETONE	06/26/10
4	1667-1	LOW PEST	0.2/0.4/2	ACETONE	06/26/10
5	1677-1	EPH	1500	MECL2	11/12/10
6	1655-3	PCP	12.5/125	ACETONE	09/24/10
7	1697-2	ABN	100	ACETONE	01/27/11
8	1681-4	TBT	2.5	MECL2	12/01/10
9	1682-2	PORE TBT	.125/.25	MECL2	12/01/10
10	1698-2	ABN ACID	100/200	MECL2	07/14/10
11	1642-2	TPHD	15000	ACETONE	09/07/10
12	1698-1	ABN BASE	200	MEOH	07/24/10
13	1613-1	LOW PCB	2	ACETONE	06/08/10
14*	1547-1	LOW ABN ACID	10/20	MEOH	04/10/10
15*	1591-3	SIM PNA	15/75	MEOH	08/28/10
16	1602-3	DIOXANE	100	MEOH	03/20/10
17	1644-1	1248 PCB	10	ACETONE	09/10/10
18*	1591-4	LOW SIM PNA	1.5	ACETONE	08/28/10
19	1685-3	AK103	7500	ACETONE	09/03/10
20	1682-4	PNA	100	ACETONE	12/04/10
21	1593-3	SKY/BHT	100	MEOH	03/31/10
22	1675-1	HERB	12.5/12500	MEOH	02/19/10
23*	1505-1	LW ABN BASE	20	MEOH	03/20/10
24	1696-1	LOW ABN	10	ACETONE	01/13/11
25#	1481-1	DIPHENYL	100	MEOH	NA
26*	1545-2	OP-PEST	25	MEOH	02/16/10
27	1668-3	STEROLS	200	MEOH	10/30/10
28#	1684-1	ADD. PEST	4	ACETONE	03/25/10
29#	1496-3	DECANES	100	MEOH	NA
30	1620-1	EDB/DBCP	0.2	MEOH	06/22/10

LCS SOLUTIONS

2/2/2010

31	1596-1	TERPINEOL	100	MEOH	04/03/10
32	1619-3	GUAIACOL	50-200	ACETONE	04/30/10
33	1639-3	RETENE	100	MEOH	09/03/10
34	1633-1	CONGENERS	2.5	ACETONE	08/11/10
35	1674-3	ALKYL PNA A	10	MEOH	10/28/10
36	1601-3	ALKYL PNA B	10	MEOH	05/13/10
50	1617-1	FULL RESIN	250	ACETONE	06/17/10
51	1696-3	DDTS	2.5	ACETONE	06/03/10
52	1613-5	1232 PCB	20	ACETONE	06/16/10
	*=REVERIFIED SOLUTION				
	#=PROJECT SPECIFIC SOLUTION				

SURR SOLUTIONS

2/2/2010

LABEL	SOLN ID	TEST	CONC. UG/ML	SOLVENT	EXP.
A	1662-3	ABN	100/150	MEOH	10/08/10
B	1633-3	SIM PNA	15/75	MEOH	08/12/10
C*	1559-1	SIM ABN	25/37.5	MEOH	03/13/10
D	1689-2	LOW PCB	0.2	ACETONE	12/29/10
E	1661-2	HERB	62.5	MEOH	10/02/10
F	1683-3	PCP	12.5	ACETONE	12/09/10
G*	1534-1	1,4DIOXANE	100	MEOH	02/20/10
H	1594-1	OP-PEST	25	MEOH	04/01/10
I	1634-1	LOW S. PNA	1.5	MEOH	08/12/10
J	1681-2	TBT-PORE	0.125	MECL2	12/01/10
K	1689-1	MED PCB	20	ACETONE	12/29/10
L	1681-1	TBT	2.5	MECL2	12/01/10
M	1682-1	EPH	1500	MECL2	09/17/10
N	1689-3	PCB	2	ACETONE	12/29/10
O	1699-1	TPH	450	MECL2	07/02/10
P	1666-3	HCID	2250	MECL2	05/06/10
Q	1620-2	EDB	1	MEOH	06/22/10
R	1615-1	RESIN ACID	250	ACETONE	06/17/10
S#	1568-5	PBDE	.25	MEOH	NA
T	1674-2	ALKYL PNA	10	MEOH	07/30/10
U	1633-1	CONGENER	2.5	ACETONE	08/11/10
V					
*reverified solution					
#project specific					
Y					
Z					

Spike Recovery Control Limits for Analysis of Aqueous Samples Volatile Organic Compounds (VOA) EPA SW-846 Methods 8260C 10 mL Purge Volume [1,7]

Effective: 5/1/09

Control limits are updated periodically. Assure that you have ARI's current control limits by downloading the files at the time of use. http://www.arilabs.com/portal/downloads/ARI-CLs.zip

	ARI Control Limits	ARI ME Control Limits[2]
LCS Spike Recovery [6]		
tert-Butanol	49 - 150	32 - 167
Metyl-*tert*-butylether	47 - 154	29 - 172
Di-*iso*-propylether	43 - 149	25 - 167
Ethyl-*tert*-butylether	45 - 155	27 - 173
tert-Amyl methylether	52 - 151	35 - 168
Dichlorodifluoromethane	59 - 129	47 - 141
Chloromethane	66 - 123	57 - 133
Vinyl Chloride	68 - 121	59 - 130
Bromomethane	55 - 148	40 - 164
Chloroethane	47 - 155	29 - 173
Trichlorofluoromethane	70 - 129	60 - 139
Acrolein	24 170	**10** - 194
Trichlorotrifluoroethane	74 - 127	65 - 136
Acetone	70 - 130	60 - 140
1,1-Dichloroethene	72 - **120**	64 - 127
Bromoethane	73 - 131	63 - 141
Methyl Iodide	34 - 183	**10** - 208
Methylene Chloride	70 - 124	61 - 133
Acrylonitrile	71 - 135	60 - 146
Methyl tert-Butyl Ether	78 - **120**	72 - 122
Carbon Disulfide	66 - 129	56 - 140
trans-1,2-Dichloroethene	76 - **120**	70 - 120
Vinyl Acetate	49 - 134	35 - 148
1,1-Dichloroethane	75 - **120**	68 - 124
2-Butanone	78 - 131	69 - 140
2,2-Dichloropropane	68 - 121	59 - 130
cis-1,2-Dichloroethene	80 - **120**	75 - **120**
Chloroform	78 - **120**	72 - 121
Bromodichloromethane	79 - **120**	73 - **120**
1,1,1-Trichloroethane	76 - **120**	69 - 123
1,1-Dichloropropene	78 - **120**	72 - 120
Carbon Tetrachloride	70 - 126	61 - 135
1,2-Dichloroethane	78 - **120**	72 - **120**
Benzene	79 - **120**	73 - **120**
Trichloroethene	78 - **120**	72 - 122
1,2-Dichloropropane	80 - **120**	75 - **120**
Bromochloromethane	78 - **120**	72 - 124

Dibromomethane	80 - **120**	75 - **120**
2-Chloroethylvinylether	68 - 134	57 - 145
4-Methyl-2-Pentanone	73 - 131	63 - 141
cis-1,3-Dichloropropene	78 - **120**	72 - 121
Toluene	79 - **120**	74 - **120**
trans-1,3-Dichloropropene	75 - **120**	68 - 124
2-Hexanone	75 - 130	66 - 139
1,1,2-Trichloroethane	79 - **120**	74 - **120**
1,3-Dichloropropane	78 - **120**	72 - 120
Tetrachloroethene	72 - **120**	65 - 125
Dibromochloromethane	78 - **120**	71 - 125
Ethylene Dibromide	75 - **120**	68 - 125
Chlorobenzene	79 - **120**	73 - **120**
Ethylbenzene	78 - 121	71 - 128
1,1,2,2-Tetrachloroethane	72 - **120**	64 - 127
m,p-Xylene	65 - 129	54 - 140
o-Xylene	76 - 120	69 - 127
Styrene	74 - 121	66 - 129
Isopropylbenzene	74 - 120	66 - 128
Bromoform	71 - 120	63 - 128
1,1,1,2-Tetrachloroethane	75 - **120**	68 - 126
1,2,3-Trichloropropane	73 - 120	65 - 128
trans-1,4-Dichloro-2-butene	65 - 135	53 - 147
n-Propylbenzene	76 - 121	69 - 129
Bromobenzene	72 - **120**	64 - 126
1,3,5-Trimethylbenzene	74 - 123	66 - 131
2-Chlorotoluene	74 - **120**	67 - 127
4-Chlorotoluene	75 - **120**	68 - 125
tert-Butylbenzene	73 - 121	65 - 129
1,2,4-Trimethylbenzene	73 - 124	65 - 133
sec-Butylbenzene	75 - 123	67 - 131
4-Isopropyltoluene	71 - 125	62 - 134
1,3-Dichlorobenzene	72 - **120**	64 - 127
1,4-Dichlorobenzene	76 - **120**	69 - 123
n-Butylbenzene	72 - 124	63 - 133
1,2-Dichlorobenzene	75 - **120**	68 - 124
1,2-Dibromo-3-chloropropane	67 - 121	58 - 130
1,2,4-Trichlorobenzene	71 - 120	63 - 128
Hexachloro-1,3-butadiene	67 - 124	58 - 134
Naphthalene	71 - 125	62 - 134
1,2,3-Trichlorobenzene	61 - 134	49 - 146
MB/LCS Surrogate Recovery		
Dibromofluoromethane	64 - 133	(3)
d4-1,2-Dichloroethane	70 - 132	(3)
d8-Toluene	**80 - 120**	(3)

4-Bromofluorobenzene	**80 - 120**	(3)
d4-1,2-Dichlorobenzene	**80 - 120**	(3)
Sample Surrogate Recovery		
Dibromofluoromethane	30 - 160 [5]	(3)
d4-1,2-Dichloroethane	**80** - 143	(3)
d8-Toluene	**80 - 120**	(3)
4-Bromofluorobenzene	**80 - 120**	(3)
D4-1,2-Dichlorobenzene	**80** - 120	(3)

(1) Control Limits calculated using all data generated 1/1/08 through 4/15/09.
(2) **ME** = A **marginal exceedance** defined in the NELAC Standard[4] as beyond the LCS-CL but still within the ME limits. ME limits are between 3 and 4 standard deviations around the mean. A maximum of four marginal exceedances are acceptable. Five or more marginal exceedances require corrective action.
(3) Marginal Exceedances not allowed for surrogate standards.
(4) **2003 NELAC Standard (EPA/600/R-04/003), July 2003**, Chapter 5, pages 251-252.
(5) 30 – 160 are default, advisory control limits used when there is insufficient data to calculate historic control limits. **DO NOT** use these limits as the sole reason to reject the data from a batch of analyses
(6) Laboratory Control Sample (LCS) spike recovery control limits also used as advisory control limits for sample matrix spike (MS) analyzes. MS recovery values are advisory and not used to assess the acceptability of an analytical batch.
(7) Highlighted control limits (**bold font**) are adjusted from the calculated values as follows:
a) ARI does not use control limits < 10 for the lower limit or < 100 for the upper limit.
b) Control limits for analyzes with no separate preparation procedure are adjusted to reflect the minimum uncertainty in the calibration of the instrument allowed by the referenced analytical method.

Analytical Resources,Incorporated
Analytical Chemists and Consultants

Spike Recovery Control Limits Hydrocarbon Identification (NWTPH-HCID) and Diesel Range Petroleum Hydrocarbons (NWTPH-D & AK-102) [1]

Effective 5/1/09

Control limits are updated periodically. Assure that you have ARI's current control limits by downloading the files at the time of use. http://www.arilabs.com/portal/downloads/ARI-CLs.zip

Method:	NWTPH-HCID [2]	NWTPH-D		AK102 [2]
Sample Matrix:	Water& Soil	Water	Soil	Water & Soil
Preparation:	500 to 1 mL	500 to 1 mL	10g to 1 mL	500 to 1 mL or 10g to 1 mL
LCS Spike Recovery [3]				
Diesel	-- - --	56 - 103	55 - 104	75 - 125
Diesel with Acid & Silica Clean-up	-- - --	43 - 100	54 - 96	(4)
Diesel with Silica Clean-up	-- --	43 - 100	54 - 96	75 - 125
Method Blank/LCS Surrogate Recovery				
o-Terphenyl	-- - --	57 - 120	58 - 121	60 - 120
o-Terphenyl with Acid & Silica Clean-up	-- - --	51 - 120	63 - 115	(4)
o-Terphenyl Silica Clean-up		51 - 120	63 - 115	60 - 120
Sample Surrogate Recovery				
o-Terphenyl	50 - 150	35 - 131	53 - 118	50 - 150
o-Terphenyl with Acid & Silica Clean-up	-- - --	41 - 121	49 - 120	(4)
o-Terphenyl with Silica Clean-up		41 - 121	49 - 120	50 - 150

1. Control Limits calculated using all data generated 1/1/08 through 12/31/08
2. Method specified, non-prescriptive limits. The NWTPH-HCID Method does not include LCS or MS analyses.
3. Laboratory Control Sample (LCS) spike recovery control limits also used as advisory control limits for sample matrix spike (MS) analyzes. MS recovery values are advisory and not used to assess the acceptability of an analytical batch.
4. Alaska State UST Methods do not allow acid cleanup of sample extracts.

Spike Recovery Control Limits for SIM VOA
EPA Method SW-846-8260C [1,2]

Effective 12/24/07

Control limits are updated periodically. Assure that you have ARI's current control limits by downloading the files at the time of use.
http://www.arilabs.com/portal/downloads/ARI-CLs.zip

Sample Matrix:	Water
Purge Volume:	10 mL
LCS Spike Recovery [3]	
Vinyl Chloride	76 - **120**
1,1-Dichloroethene	79 - 126
cis-1,2-Dichloroethene	76 - 127
Trichloroethene	79 - **120**
Benzene	75 - 121
Tetrachloroethene	75 - 123
1,1,2,2-Tetrachloroethane	72 - 129
Method Blank/LCS Surrogate Recovery	
d4-1,2-Dichloroethane	80 - 133
d8-Toluene	**80** - 121
Sample Surrogate Recovery	
d4-1,2-Dichloroethane	**80** - 136
d8-Toluene	**80** - **120**

(1) Control limits calculated using historic data collected from 4/1/05 to 11/15/07
(2) Highlighted control limits (**bold font**) adjusted from the calculated values as follows:

a) ARI does not use control limits < 10
b) Control limits for analyzes with no separate preparation procedure are adjusted to reflect the minimum uncertainty in the calibration of the instrument allowed by the referenced analytical method.

(3) Laboratory Control Sample (LCS) spike recovery control limits also used as advisory control limits for sample matrix spike (MS) analyzes. MS recovery values are advisory and not used to assess the acceptability of an analytical batch.

Data Summary Package

prepared
for

Floyd-Snider

Project: Lora Lakes Apartments, POS-LLA

ARI JOB NO: QL85

prepared
by

Analytical Resources, Inc.

VOLATILE ANALYSIS

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: CB31A022610GRAB SAMPLE**
Page 1 of 1

Lab Sample ID: QL85A
LIMS ID: 10-4943
Matrix: Water
Data Release Authorized:
Reported: 03/11/10

QC Report No: QL85-Floyd-Snider
Project: Lora Lakes Apartments POS-LLA
Date Sampled: 02/26/10
Date Received: 02/26/10

Instrument/Analyst: NT10/AAR
Date Analyzed: 03/03/10 15:17

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.2	< 0.2	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	103%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: CB4857022610GRAB**
Page 1 of 1 **SAMPLE**

Lab Sample ID: QL85B
LIMS ID: 10-4944
Matrix: Water
Data Release Authorized:
Reported: 03/11/10

QC Report No: QL85-Floyd-Snider
Project: Lora Lakes Apartments
POS-LLA
Date Sampled: 02/26/10
Date Received: 02/26/10

Instrument/Analyst: NT5/PKC
Date Analyzed: 03/09/10 23:41

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.2	< 0.2	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	102%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: CB1022610GRAB**
Page 1 of 1 **SAMPLE**

Lab Sample ID: QL85C
LIMS ID: 10-4945
Matrix: Water
Data Release Authorized:
Reported: 03/11/10

QC Report No: QL85-Floyd-Snider
Project: Lora Lakes Apartments
POS-LLA
Date Sampled: 02/26/10
Date Received: 02/26/10

Instrument/Analyst: NT10/AAR
Date Analyzed: 03/03/10 18:19

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.2	< 0.2	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	101%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: CB102022610GRAB**
Page 1 of 1 **SAMPLE**

Lab Sample ID: QL85D
LIMS ID: 10-4946
Matrix: Water
Data Release Authorized:
Reported: 03/11/10

QC Report No: QL85-Floyd-Snider
Project: Lora Lakes Apartments
POS-LLA
Date Sampled: 02/26/10
Date Received: 02/26/10

Instrument/Analyst: NT10/AAR
Date Analyzed: 03/03/10 18:49

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.2	< 0.2	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	102%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: TB022610**
Page 1 of 1 **Trip Blank**

Lab Sample ID: QL85E
LIMS ID: 10-4947
Matrix: Water
Data Release Authorized:
Reported: 03/11/10

QC Report No: QL85-Floyd-Snider
Project: Lora Lakes Apartments
POS-LLA
Date Sampled: 02/26/10
Date Received: 02/26/10

Instrument/Analyst: NT10/AAR
Date Analyzed: 03/03/10 14:47

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.2	< 0.2	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	102%

ANALYTICAL RESOURCES INCORPORATED

VOA SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: QL85-Floyd-Snider
Project: Lora Lakes Apartments
POS-LLA

ARI ID	Client ID	PV	DCE	TOL	BFB	DCB	TOT OUT
MB-030310	Method Blank	10	102%	NA	NA	NA	0
LCS-030310	Lab Control	10	107%	NA	NA	NA	0
LCSD-030310	Lab Control Dup	10	104%	NA	NA	NA	0
QL85A	CB31A022610GRAB	10	103%	NA	NA	NA	0
QL85AMS	CB31A022610GRAB	10	106%	NA	NA	NA	0
QL85AMSD	CB31A022610GRAB	10	106%	NA	NA	NA	0
MB-030910	Method Blank	10	100%	NA	NA	NA	0
LCS-030910	Lab Control	10	101%	NA	NA	NA	0
LCSD-030910	Lab Control Dup	10	97.1%	NA	NA	NA	0
QL85B	CB4857022610GRAB	10	102%	NA	NA	NA	0
QL85C	CB1022610GRAB	10	101%	NA	NA	NA	0
QL85D	CB102022610GRAB	10	102%	NA	NA	NA	0
QL85E	TB022610	10	102%	NA	NA	NA	0

	LCS/MB LIMITS	QC LIMITS
SW8260C		
(DCE) = d4-1,2-Dichloroethane	70-132	80-143
(TOL) = d8-Toluene	80-120	80-120
(BFB) = Bromofluorobenzene	80-120	80-120
(DCB) = d4-1,2-Dichlorobenzene	80-120	80-120

Prep Method: SW5030B
Log Number Range: 10-4943 to 10-4947

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: CB31A022610GRAB**
Page 1 of 1 **MATRIX SPIKE**

Lab Sample ID: QL85A
LIMS ID: 10-4943
Matrix: Water
Data Release Authorized:
Reported: 03/11/10

QC Report No: QL85-Floyd-Snider
Project: Lora Lakes Apartments
POS-LLA
Date Sampled: 02/26/10
Date Received: 02/26/10

Instrument/Analyst MS: NT10/AAR
MSD: NT10/AAR
Date Analyzed MS: 03/03/10 19:19
MSD: 03/03/10 19:48

Sample Amount MS: 10.0 mL
MSD: 10.0 mL
Purge Volume MS: 10.0 mL
MSD: 10.0 mL

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
1,2-Dichloroethane	< 0.2 U	10.4	10.0	104%	10.8	10.0	108%	3.8%

Reported in µg/L (ppb)

RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: CB31A022610GRAB**
Page 1 of 1 **MATRIX SPIKE**

Lab Sample ID: QL85A
LIMS ID: 10-4943
Matrix: Water
Data Release Authorized:
Reported: 03/11/10

QC Report No: QL85-Floyd-Snider
Project: Lora Lakes Apartments
POS-LLA
Date Sampled: 02/26/10
Date Received: 02/26/10

Instrument/Analyst: NT10/AAR
Date Analyzed: 03/03/10 19:19

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.2	---	

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	106%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: CB31A022610GRAB MATRIX SPIKE DUP**
Page 1 of 1

Lab Sample ID: QL85A
LIMS ID: 10-4943
Matrix: Water
Data Release Authorized:
Reported: 03/11/10

QC Report No: QL85-Floyd-Snider
Project: Lora Lakes Apartments POS-LLA
Date Sampled: 02/26/10
Date Received: 02/26/10

Instrument/Analyst: NT10/AAR
Date Analyzed: 03/03/10 19:48

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.2	---	

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	106%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: LCS-030310**
Page 1 of 1 **LAB CONTROL SAMPLE**

Lab Sample ID: LCS-030310
LIMS ID: 10-4943
Matrix: Water
Data Release Authorized:
Reported: 03/11/10

QC Report No: QL85-Floyd-Snider
Project: Lora Lakes Apartments
POS-LLA
Date Sampled: NA
Date Received: NA

Instrument/Analyst LCS: NT10/AAR
LCSD: NT10/AAR
Date Analyzed LCS: 03/03/10 13:06
LCSD: 03/03/10 13:36

Sample Amount LCS: 10.0 mL
LCSD: 10.0 mL
Purge Volume LCS: 10.0 mL
LCSD: 10.0 mL

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
1,2-Dichloroethane	10.5	10.0	105%	10.6	10.0	106%	0.9%

Reported in µg/L (ppb)

RPD calculated using sample concentrations per SW846.

Volatile Surrogate Recovery

	LCS	LCSD
d4-1,2-Dichloroethane	107%	104%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: LCS-030910**
Page 1 of 1 **LAB CONTROL SAMPLE**

Lab Sample ID: LCS-030910
LIMS ID: 10-4944
Matrix: Water
Data Release Authorized:
Reported: 03/11/10

QC Report No: QL85-Floyd-Snider
Project: Lora Lakes Apartments
POS-LLA
Date Sampled: NA
Date Received: NA

Instrument/Analyst LCS: NT5/PKC
LCSD: NT5/PKC
Date Analyzed LCS: 03/09/10 19:24
LCSD: 03/09/10 19:50

Sample Amount LCS: 10.0 mL
LCSD: 10.0 mL
Purge Volume LCS: 10.0 mL
LCSD: 10.0 mL

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
1,2-Dichloroethane	10.0	10.0	100%	9.6	10.0	96.0%	4.1%

Reported in µg/L (ppb)

RPD calculated using sample concentrations per SW846.

Volatile Surrogate Recovery

	LCS	LCSD
d4-1,2-Dichloroethane	101%	97.1%

4A
VOLATILE METHOD BLANK SUMMARY

Method Blank ID.

MB0303

Lab Name: ANALYTICAL RESOURCES, INC
Client: FLOYD-SNIDER

ARI Job No: QL85
Project: LORA LAKES APARTMENTS

Lab File ID: MB0303
Lab Sample ID: MB0303

Date Analyzed: 03/03/10
Time Analyzed: 1406

Instrument ID: NT10
Heated Purge: (Y/N) N

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS0303	LCS0303	LCS0303	1306
02	LCS0303	LCS0303	LCS0303A	1336
03	TB022610	QL85E	QL85E	1447
04	CB31A022610G	QL85A	QL85A	1517
05	CB1022610GRA	QL85C	QL85C	1819
06	CB102022610G	QL85D	QL85D	1849
07	CB31A022610G	QL85A	QL85AMS	1919
08	CB31A022610G	QL85A	QL85AMSD	1948
09				
10				
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COMMENTS:

FORM IV VOA

OLM3.2M

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: MB-030310**
Page 1 of 1 **METHOD BLANK**

Lab Sample ID: MB-030310
LIMS ID: 10-4943
Matrix: Water
Data Release Authorized:
Reported: 03/11/10

QC Report No: QL85-Floyd-Snider
Project: Lora Lakes Apartments
POS-LLA
Date Sampled: NA
Date Received: NA

Instrument/Analyst: NT10/AAR
Date Analyzed: 03/03/10 14:06

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.2	< 0.2	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	102%

4A

VOLATILE METHOD BLANK SUMMARY

Method Blank ID.

MB0309A

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No: 09MAR10

Project: LORA LAKES APARTMENTS

Lab File ID: 03091024

Lab Sample ID: MB0309A

Date Analyzed: 03/09/10

Time Analyzed: 2041

Instrument ID: NT5

Heated Purge: (Y/N) N

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS0309	LCS0309	03091021	1924
02	LCSD0309	LCSD0309	03091022	1950
03	CB4857022610	QL85B	03091031	2341
04				
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30				

COMMENTS:

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: MB-030910**
Page 1 of 1 **METHOD BLANK**

Lab Sample ID: MB-030910
LIMS ID: 10-4944
Matrix: Water
Data Release Authorized:
Reported: 03/11/10

QC Report No: QL85-Floyd-Snider
Project: Lora Lakes Apartments
POS-LLA
Date Sampled: NA
Date Received: NA

Instrument/Analyst: NT5/PKC
Date Analyzed: 03/09/10 20:41

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.2	< 0.2	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	100%

SIM VOLATILE ANALYSIS

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM **Sample ID: CB31A022610GRAB**
Page 1 of 1 **SAMPLE**

Lab Sample ID: QL85A
LIMS ID: 10-4943
Matrix: Water
Data Release Authorized:
Reported: 03/10/10

QC Report No: QL85-Floyd-Snider
Project: Lora Lakes Apartments
POS-LLA
Date Sampled: 02/26/10
Date Received: 02/26/10

Instrument/Analyst: NT10/MH
Date Analyzed: 03/08/10 09:26

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
156-59-2	cis-1,2-Dichloroethene	0.020	< 0.020	U
156-60-5	trans-1,2-Dichloroethene	0.020	< 0.020	U
79-01-6	Trichloroethene	0.020	< 0.020	U
127-18-4	Tetrachloroethene	0.020	< 0.020	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	103%
d8-Toluene	98.4%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: CB4857022610GRAB

Page 1 of 1 **SAMPLE**

Lab Sample ID: QL85B
LIMS ID: 10-4944
Matrix: Water
Data Release Authorized:
Reported: 03/10/10

QC Report No: QL85-Floyd-Snider
Project: Lora Lakes Apartments
POS-LLA
Date Sampled: 02/26/10
Date Received: 02/26/10

Instrument/Analyst: NT10/MH
Date Analyzed: 03/08/10 09:51

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
156-59-2	cis-1,2-Dichloroethene	0.020	< 0.020	U
156-60-5	trans-1,2-Dichloroethene	0.020	< 0.020	U
79-01-6	Trichloroethene	0.020	< 0.020	U
127-18-4	Tetrachloroethene	0.020	< 0.020	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	108%
d8-Toluene	98.2%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: CB1022610GRAB
Page 1 of 1 **SAMPLE**

Lab Sample ID: QL85C
LIMS ID: 10-4945
Matrix: Water
Data Release Authorized:
Reported: 03/10/10

QC Report No: QL85-Floyd-Snider
Project: Lora Lakes Apartments
POS-LLA
Date Sampled: 02/26/10
Date Received: 02/26/10

Instrument/Analyst: NT10/MH
Date Analyzed: 03/08/10 10:16

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
156-59-2	cis-1,2-Dichloroethene	0.020	< 0.020	U
156-60-5	trans-1,2-Dichloroethene	0.020	< 0.020	U
79-01-6	Trichloroethene	0.020	< 0.020	U
127-18-4	Tetrachloroethene	0.020	< 0.020	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	108%
d8-Toluene	99.3%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: CB102022610GRAB
Page 1 of 1 **SAMPLE**

Lab Sample ID: QL85D
LIMS ID: 10-4946
Matrix: Water
Data Release Authorized:
Reported: 03/10/10

QC Report No: QL85-Floyd-Snider
Project: Lora Lakes Apartments
POS-LLA
Date Sampled: 02/26/10
Date Received: 02/26/10

Instrument/Analyst: NT10/MH
Date Analyzed: 03/08/10 10:41

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
156-59-2	cis-1,2-Dichloroethene	0.020	< 0.020	U
156-60-5	trans-1,2-Dichloroethene	0.020	< 0.020	U
79-01-6	Trichloroethene	0.020	< 0.020	U
127-18-4	Tetrachloroethene	0.020	< 0.020	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	108%
d8-Toluene	98.9%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM **Sample ID: TB022610**
Page 1 of 1 **Trip Blank**

Lab Sample ID: QL85E
LIMS ID: 10-4947
Matrix: Water
Data Release Authorized:
Reported: 03/10/10

QC Report No: QL85-Floyd-Snider
Project: Lora Lakes Apartments POS-LLA
Date Sampled: 02/26/10
Date Received: 02/26/10

Instrument/Analyst: NT10/MH
Date Analyzed: 03/08/10 09:02

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
156-59-2	cis-1,2-Dichloroethene	0.020	< 0.020	U
156-60-5	trans-1,2-Dichloroethene	0.020	< 0.020	U
79-01-6	Trichloroethene	0.020	< 0.020	U
127-18-4	Tetrachloroethene	0.020	< 0.020	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	104%
d8-Toluene	99.2%

ANALYTICAL RESOURCES INCORPORATED

SW8260-SIM SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: QL85-Floyd-Snider
Project: Lora Lakes Apartments
POS-LLA

Client ID	DCE	TOL	TOT OUT
MB-030810	100%	98.9%	0
LCS-030810	95.0%	99.9%	0
LCSD-030810	95.4%	100%	0
CB31A022610GRAB	103%	98.4%	0
CB31A022610GRAB-MS	98.7%	99.9%	0
CB31A022610GRAB-MSD	101%	101%	0
CB4857022610GRAB	108%	98.2%	0
CB1022610GRAB	108%	99.3%	0
CB102022610GRAB	108%	98.9%	0
TB022610	104%	99.2%	0

	LCS/MB LIMITS	QC LIMITS
(DCE) = d4-1,2-Dichloroethane	(80-133)	(80-136)
(TOL) = d8-Toluene	(80-121)	(80-120)

Prep Method: SW5030
Log Number Range: 10-4943 to 10-4947

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: CB31A022610GRAB
Page 1 of 1 **MATRIX SPIKE**

Lab Sample ID: QL85A
LIMS ID: 10-4943
Matrix: Water
Data Release Authorized:
Reported: 03/10/10

QC Report No: QL85-Floyd-Snider
Project: Lora Lakes Apartments
POS-LLA
Date Sampled: 02/26/10
Date Received: 02/26/10

Instrument/Analyst MS: NT10/MH
MSD: NT10/MH
Date Analyzed MS: 03/08/10 16:53
MSD: 03/08/10 17:18

Sample Amount MS: 10.0 mL
MSD: 10.0 mL
Purge Volume MS: 10.0 mL
MSD: 10.0 mL

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
cis-1,2-Dichloroethene	< 0.020 U	1.05	1.00	105%	1.04	1.00	104%	1.0%
trans-1,2-Dichloroethene	< 0.020 U	0.906	1.00	90.6%	0.886	1.00	88.6%	2.2%
Trichloroethene	< 0.020 U	1.04	1.00	104%	1.03	1.00	103%	1.0%
Tetrachloroethene	< 0.020 U	1.07	1.00	107%	1.07	1.00	107%	0.0%

Reported in µg/L (ppb)

RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM **Sample ID: CB31A022610GRAB**
Page 1 of 1 **MATRIX SPIKE**

Lab Sample ID: QL85A
LIMS ID: 10-4943
Matrix: Water
Data Release Authorized:
Reported: 03/10/10

QC Report No: QL85-Floyd-Snider
Project: Lora Lakes Apartments
POS-LLA
Date Sampled: 02/26/10
Date Received: 02/26/10

Instrument/Analyst: NT10/MH
Date Analyzed: 03/08/10 16:53

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
156-59-2	cis-1,2-Dichloroethene	0.020	---	
156-60-5	trans-1,2-Dichloroethene	0.020	---	
79-01-6	Trichloroethene	0.020	---	
127-18-4	Tetrachloroethene	0.020	---	

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	98.7%
d8-Toluene	99.9%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM **Sample ID: CB31A022610GRAB MATRIX SPIKE DUP**
Page 1 of 1

Lab Sample ID: QL85A
LIMS ID: 10-4943
Matrix: Water
Data Release Authorized:
Reported: 03/10/10

QC Report No: QL85-Floyd-Snider
Project: Lora Lakes Apartments POS-LLA
Date Sampled: 02/26/10
Date Received: 02/26/10

Instrument/Analyst: NT10/MH
Date Analyzed: 03/08/10 17:18

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
156-59-2	cis-1,2-Dichloroethene	0.020	---	
156-60-5	trans-1,2-Dichloroethene	0.020	---	
79-01-6	Trichloroethene	0.020	---	
127-18-4	Tetrachloroethene	0.020	---	

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	101%
d8-Toluene	101%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: LCS-030810
Page 1 of 1 **LAB CONTROL SAMPLE**

Lab Sample ID: LCS-030810
LIMS ID: 10-4943
Matrix: Water
Data Release Authorized:
Reported: 03/10/10

QC Report No: QL85-Floyd-Snider
Project: Lora Lakes Apartments
POS-LLA
Date Sampled: NA
Date Received: NA

Instrument/Analyst LCS: NT10/MH
LCSD: NT10/MH
Date Analyzed LCS: 03/08/10 07:31
LCSD: 03/08/10 08:01

Sample Amount LCS: 10.0 mL
LCSD: 10.0 mL
Purge Volume LCS: 10.0 mL
LCSD: 10.0 mL

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
cis-1,2-Dichloroethene	1.06	1.00	106%	1.05	1.00	105%	0.9%
trans-1,2-Dichloroethene	0.916	1.00	91.6%	0.888	1.00	88.8%	3.1%
Trichloroethene	1.07	1.00	107%	1.05	1.00	105%	1.9%
Tetrachloroethene	1.09	1.00	109%	1.06	1.00	106%	2.8%

Reported in µg/L (ppb)

RPD calculated using sample concentrations per SW846.

Volatile Surrogate Recovery

	LCS	LCSD
d4-1,2-Dichloroethane	95.0%	95.4%
d8-Toluene	99.9%	100%

4A

VOLATILE METHOD BLANK SUMMARY

Method Blank ID.

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No: QL85

Project: POS-LLA

Lab File ID: 03080306

Lab Sample ID: MB0308

Date Analyzed: 03/08/10

Time Analyzed: 0830

Instrument ID: NT10

Heated Purge: (Y/N) N

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01		LCS0308	03080304	0731
02		LCSD0308	03080305	0801
03	TB022610	QL85E	03080307	0902
04	CB31A022610G	QL85A	03080308	0926
05	CB4857022610	QL85B	03080309	0951
06	CB1022610GRA	QL85C	03080310	1016
07	CB102022610G	QL85D	03080311	1041
08	CB31A022610G	QL85AMS	03080326	1653
09	CB31A022610G	QL85AMSD	03080327	1718
10				
11				
12				
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COMMENTS:

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: MB-030810
Page 1 of 1 **METHOD BLANK**

Lab Sample ID: MB-030810
LIMS ID: 10-4943
Matrix: Water
Data Release Authorized:
Reported: 03/10/10

QC Report No: QL85-Floyd-Snider
Project: Lora Lakes Apartments
POS-LLA
Date Sampled: NA
Date Received: NA

Instrument/Analyst: NT10/MH
Date Analyzed: 03/08/10 08:30

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
156-59-2	cis-1,2-Dichloroethene	0.020	< 0.020	U
156-60-5	trans-1,2-Dichloroethene	0.020	< 0.020	U
79-01-6	Trichloroethene	0.020	< 0.020	U
127-18-4	Tetrachloroethene	0.020	< 0.020	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	100%
d8-Toluene	98.9%

TPHD ANALYSIS

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
TOTAL DIESEL RANGE HYDROCARBONS
NWTPHD by GC/FID-Silica and Acid Cleaned
Page 1 of 1
Matrix: Water

QC Report No: QL85-Floyd-Snider
Project: Lora Lakes Apartments
POS-LLA

Data Release Authorized:
Reported: 03/03/10

ARI ID	Sample ID	Extraction Date	Analysis Date	EFV DL	Range	RL	Result
MB-030110	Method Blank	03/01/10	03/02/10	1.00	Diesel	0.25	< 0.25 U
10-4943	HC ID: ---		FID3A	1.0	Motor Oil	0.50	< 0.50 U
					o-Terphenyl		80.2%
QL85A	CB31A022610GRAB	03/01/10	03/02/10	1.00	Diesel	0.25	< 0.25 U
10-4943	HC ID: ---		FID3A	1.0	Motor Oil	0.50	< 0.50 U
					o-Terphenyl		59.5%
QL85B	CB4857022610GRAB	03/01/10	03/02/10	1.00	Diesel	0.25	< 0.25 U
10-4944	HC ID: ---		FID3A	1.0	Motor Oil	0.50	< 0.50 U
					o-Terphenyl		47.8%
QL85C	CB1022610GRAB	03/01/10	03/02/10	1.00	Diesel	0.25	< 0.25 U
10-4945	HC ID: ---		FID3A	1.0	Motor Oil	0.50	< 0.50 U
					o-Terphenyl		65.0%
QL85D	CB102022610GRAB	03/01/10	03/02/10	1.00	Diesel	0.25	< 0.25 U
10-4946	HC ID: ---		FID3A	1.0	Motor Oil	0.50	< 0.50 U
					o-Terphenyl		69.5%

Reported in mg/L (ppm)

EFV-Effective Final Volume in mL.
DL-Dilution of extract prior to analysis.
RL-Reporting limit.

Diesel quantitation on total peaks in the range from C12 to C24.
Motor Oil quantitation on total peaks in the range from C24 to C38.
HC ID: DRO/RRO indicate results of organics or additional hydrocarbons in ranges are not identifiable.

ANALYTICAL RESOURCES INCORPORATED

CLEANED TPHD SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: QL85-Floyd-Snider
Project: Lora Lakes Apartments
POS-LLA

Client ID	OTER	TOT OUT
MB-030110	80.2%	0
LCS-030110	79.5%	0
CB31A022610GRAB	59.5%	0
CB31A022610GRAB MS	75.8%	0
CB31A022610GRAB MSD	76.4%	0
CB4857022610GRAB	47.8%	0
CB1022610GRAB	65.0%	0
CB102022610GRAB	69.5%	0

	LCS/MB LIMITS	QC LIMITS
(OTER) = o-Terphenyl	(51-120)	(41-121)

Prep Method: SW3510C
Log Number Range: 10-4943 to 10-4946

FORM-II TPHD

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
NWTPHD by GC/FID-Silica and Acid Cleaned **Sample ID: CB31A022610GRAB**
Page 1 of 1 **MS/MSD**

Lab Sample ID: QL85A
LIMS ID: 10-4943
Matrix: Water
Data Release Authorized:
Reported: 03/03/10

QC Report No: QL85-Floyd-Snider
Project: Lora Lakes Apartments
POS-LLA
Date Sampled: 02/26/10
Date Received: 02/26/10

Date Extracted MS/MSD: 03/01/10

Date Analyzed MS: 03/02/10 21:01
MSD: 03/02/10 21:18
Instrument/Analyst MS: FID/MS
MSD: FID/MS

Sample Amount MS: 500 mL
MSD: 500 mL
Final Extract Volume MS: 1.0 mL
MSD: 1.0 mL
Dilution Factor MS: 1.00
MSD: 1.00

Range	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Diesel	< 0.25	1.95	3.00	65.0%	1.94	3.00	64.7%	0.5%

TPHD Surrogate Recovery

	MS	MSD
o-Terphenyl	75.8%	76.4%

Results reported in mg/L
RPD calculated using sample concentrations per SW846.

FORM III

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
NWTPHD by GC/FID-Silica and Acid Cleaned
Page 1 of 1

Sample ID: LCS-030110
LAB CONTROL

Lab Sample ID: LCS-030110
LIMS ID: 10-4943
Matrix: Water
Data Release Authorized:
Reported: 03/03/10

QC Report No: QL85-Floyd-Snider
Project: Lora Lakes Apartments
POS-LLA
Date Sampled: 02/26/10
Date Received: 02/26/10

Date Extracted: 03/01/10
Date Analyzed: 03/02/10 20:26
Instrument/Analyst: FID/MS

Sample Amount: 500 mL
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00

Range	Lab Control	Spike Added	Recovery
Diesel	1.90	3.00	63.3%

TPHD Surrogate Recovery

o-Terphenyl	79.5%

Results reported in mg/L

FORM III

TPH METHOD BLANK SUMMARY

BLANK NO.: QL85MBW1

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD-SNIDER

SDG No.: QL85 Project No.: LORA LAKE APARTMENTS

Date Extracted: 03/01/10 Matrix: LIQUID

Date Analyzed : 03/02/10 Instrument ID : FID3A

Time Analyzed : 2009

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED
01	QL85LCSW1	QL85LCSW1	03/02/10
02	CB31A022610G	QL85A	03/02/10
03	CB31A022610G	QL85AMS	03/02/10
04	CB31A022610G	QL85AMSD	03/02/10
05	CB4857022610	QL85B	03/02/10
06	CB1022610GRA	QL85C	03/02/10
07	CB102022610G	QL85D	03/02/10
08			
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FORM IV TPH

Laboratory Data Package

prepared
for

Floyd-Snider

Project: Lora Lakes Apartments, POS-LLA

ARI JOB NO: QL85

prepared
by

Analytical Resources, Inc.

Volatile Analysis
QC Summary Data

prepared
for

Floyd-Snider

Project: Lora Lakes Apartments, POS-LLA

ARI JOB NO: QL85

prepared
by

Analytical Resources, Inc.

ANALYTICAL RESOURCES INCORPORATED

VOA SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: QL85-Floyd-Snider
Project: Lora Lakes Apartments
POS-LLA

ARI ID	Client ID	PV	DCE	TOL	BFB	DCB	TOT OUT
MB-030310	Method Blank	10	102%	NA	NA	NA	0
LCS-030310	Lab Control	10	107%	NA	NA	NA	0
LCSD-030310	Lab Control Dup	10	104%	NA	NA	NA	0
QL85A	CB31A022610GRAB	10	103%	NA	NA	NA	0
QL85AMS	CB31A022610GRAB	10	106%	NA	NA	NA	0
QL85AMSD	CB31A022610GRAB	10	106%	NA	NA	NA	0
MB-030910	Method Blank	10	100%	NA	NA	NA	0
LCS-030910	Lab Control	10	101%	NA	NA	NA	0
LCSD-030910	Lab Control Dup	10	97.1%	NA	NA	NA	0
QL85B	CB4857022610GRAB	10	102%	NA	NA	NA	0
QL85C	CB1022610GRAB	10	101%	NA	NA	NA	0
QL85D	CB102022610GRAB	10	102%	NA	NA	NA	0
QL85E	TB022610	10	102%	NA	NA	NA	0

SW8260C	LCS/MB LIMITS	QC LIMITS
(DCE) = d4-1,2-Dichloroethane	70-132	80-143
(TOL) = d8-Toluene	80-120	80-120
(BFB) = Bromofluorobenzene	80-120	80-120
(DCB) = d4-1,2-Dichlorobenzene	80-120	80-120

Prep Method: SW5030B
Log Number Range: 10-4943 to 10-4947

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: CB31A022610GRAB**
Page 1 of 1 **MATRIX SPIKE**

Lab Sample ID: QL85A
LIMS ID: 10-4943
Matrix: Water
Data Release Authorized:
Reported: 03/11/10

QC Report No: QL85-Floyd-Snider
Project: Lora Lakes Apartments
POS-LLA
Date Sampled: 02/26/10
Date Received: 02/26/10

Instrument/Analyst MS: NT10/AAR
MSD: NT10/AAR
Date Analyzed MS: 03/03/10 19:19
MSD: 03/03/10 19:48

Sample Amount MS: 10.0 mL
MSD: 10.0 mL
Purge Volume MS: 10.0 mL
MSD: 10.0 mL

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
1,2-Dichloroethane	< 0.2 U	10.4	10.0	104%	10.8	10.0	108%	3.8%

Reported in µg/L (ppb)

RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: LCS-030310**
Page 1 of 1 **LAB CONTROL SAMPLE**

Lab Sample ID: LCS-030310
LIMS ID: 10-4943
Matrix: Water
Data Release Authorized:
Reported: 03/11/10

QC Report No: QL85-Floyd-Snider
Project: Lora Lakes Apartments
POS-LLA
Date Sampled: NA
Date Received: NA

Instrument/Analyst LCS: NT10/AAR
LCSD: NT10/AAR
Date Analyzed LCS: 03/03/10 13:06
LCSD: 03/03/10 13:36

Sample Amount LCS: 10.0 mL
LCSD: 10.0 mL
Purge Volume LCS: 10.0 mL
LCSD: 10.0 mL

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
1,2-Dichloroethane	10.5	10.0	105%	10.6	10.0	106%	0.9%

Reported in µg/L (ppb)

RPD calculated using sample concentrations per SW846.

Volatile Surrogate Recovery

	LCS	LCSD
d4-1,2-Dichloroethane	107%	104%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: LCS-030910**
Page 1 of 1 **LAB CONTROL SAMPLE**

Lab Sample ID: LCS-030910
LIMS ID: 10-4944
Matrix: Water
Data Release Authorized:
Reported: 03/11/10

QC Report No: QL85-Floyd-Snider
Project: Lora Lakes Apartments
POS-LLA
Date Sampled: NA
Date Received: NA

Instrument/Analyst LCS: NT5/PKC
LCSD: NT5/PKC
Date Analyzed LCS: 03/09/10 19:24
LCSD: 03/09/10 19:50

Sample Amount LCS: 10.0 mL
LCSD: 10.0 mL
Purge Volume LCS: 10.0 mL
LCSD: 10.0 mL

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
1,2-Dichloroethane	10.0	10.0	100%	9.6	10.0	96.0%	4.1%

Reported in µg/L (ppb)

RPD calculated using sample concentrations per SW846.

Volatile Surrogate Recovery

	LCS	LCSD
d4-1,2-Dichloroethane	101%	97.1%

4A
VOLATILE METHOD BLANK SUMMARY

Method Blank ID.

MB0303

Lab Name: ANALYTICAL RESOURCES, INC
Client: FLOYD-SNIDER

ARI Job No: QL85
Project: LORA LAKES APARTMENTS

Lab File ID: MB0303
Lab Sample ID: MB0303

Date Analyzed: 03/03/10
Time Analyzed: 1406

Instrument ID: NT10
Heated Purge: (Y/N) N

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS0303	LCS0303	LCS0303	1306
02	LCS0303	LCS0303	LCS0303A	1336
03	TB022610	QL85E	QL85E	1447
04	CB31A022610G	QL85A	QL85A	1517
05	CB1022610GRA	QL85C	QL85C	1819
06	CB102022610G	QL85D	QL85D	1849
07	CB31A022610G	QL85A	QL85AMS	1919
08	CB31A022610G	QL85A	QL85AMSD	1948
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COMMENTS:

4A

VOLATILE METHOD BLANK SUMMARY

Method Blank ID.

MB0309A

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No: 09MAR10

Project: LORA LAKES APARTMENTS

Lab File ID: 03091024

Lab Sample ID: MB0309A

Date Analyzed: 03/09/10

Time Analyzed: 2041

Instrument ID: NT5

Heated Purge: (Y/N) N

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS0309	LCS0309	03091021	1924
02	LCSD0309	LCSD0309	03091022	1950
03	CB4857022610	QL85B	03091031	2341
04				
05				
06				
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COMMENTS:

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: ANALYTICAL RESOURCES, INC Contract: FLOYD-SNIDER

Lab Code: ARI Case No.: LORA LAKES APARTMENTS SDG No.: QL85

Lab File ID: BFB0222 BFB Injection Date: 02/22/10

Instrument ID: NT10 BFB Injection Time: 1317

GC Column: RTX502.2 ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	18.3
75	30.0 - 66.0% of mass 95	50.5
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.6 (0.8)1
174	50.0 - 101.0% of mass 95	77.1
175	4.0 - 9.0% of mass 174	5.8 (7.5)1
176	93.0 - 101.0% of mass 174	75.4 (97.8)1
177	5.0 - 9.0% of mass 176	5.0 (6.6)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD1	IC002	0020222	02/22/10	1442
02	VSTD8	IC600	6000222	02/22/10	1512
03	VSTD7	IC400	4000222A	02/22/10	1611
04	VSTD6	IC200	2000222	02/22/10	1641
05	VSTD4	IC100	1000222	02/22/10	1711
06	VSTD5	IC040	0400222	02/22/10	1741
07	VSTD3	IC010	0100222	02/22/10	1811
08	VSTD2	IC005	0050222	02/22/10	1841
09	ICV0222	ICV0222	ICV0222A	02/22/10	1912
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5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: ANALYTICAL RESOURCES, INC Contract: FLOYD-SNIDER

Lab Code: ARI Case No.: LORA LAKES APARTMENTS SDG No.: 09MAR10

Lab File ID: 03091001 BFB Injection Date: 03/09/10

Instrument ID: NT5 BFB Injection Time: 0903

GC Column: RTXVMS ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	20.2
75	30.0 - 66.0% of mass 95	50.5
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.2
173	Less than 2.0% of mass 174	0.4 (0.7)1
174	50.0 - 101.0% of mass 95	62.8
175	4.0 - 9.0% of mass 174	4.6 (7.4)1
176	93.0 - 101.0% of mass 174	62.7 (99.9)1
177	5.0 - 9.0% of mass 176	3.9 (6.2)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	0.1 PPB	0.1 0309	03091006	03/09/10	1204
02	0.2 PPB	0.2 0309	03091007	03/09/10	1229
03	0.5 PPB	0.5 0309	03091008	03/09/10	1255
04	1 PPB	1 0309	03091009	03/09/10	1320
05	10 PPB	10 0309	03091011	03/09/10	1412
06	20 PPB	20 0309	03091012	03/09/10	1437
07	40 PPB	40 0309	03091013	03/09/10	1503
08	60 PPB	60 0309	03091014	03/09/10	1529
09	150 PPB KETONES	150 0309	03091015	03/09/10	1554
10	2 PPB	2 0309	03091017	03/09/10	1645
11	ICV 10 PPB	ICV 0309	03091018	03/09/10	1711
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5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: ANALYTICAL RESOURCES, INC Contract: FLOYD-SNIDER

Lab Code: ARI Case No.: LORA LAKES APARTMENTS SDG No.: 09MAR10

Lab File ID: 03091019 BFB Injection Date: 03/09/10

Instrument ID: NT5 BFB Injection Time: 1825

GC Column: RTXVMS ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	19.5
75	30.0 - 66.0% of mass 95	50.1
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.2 (0.3)1
174	50.0 - 101.0% of mass 95	63.1
175	4.0 - 9.0% of mass 174	4.6 (7.3)1
176	93.0 - 101.0% of mass 174	59.0 (93.5)1
177	5.0 - 9.0% of mass 176	3.8 (6.5)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CC0309	CC0309	03091020	03/09/10	1859
02	LCS0309	LCS0309	03091021	03/09/10	1924
03	LCSD0309	LCSD0309	03091022	03/09/10	1950
04	MB0309A	MB0309A	03091024	03/09/10	2041
05	CB4857022610GRAB	QL85B	03091031	03/09/10	2341
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8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD-SNIDER

ARI Job No: QL85 Project: LORA LAKES APARTMENTS

Ical Midpoint ID: 1000222 Ical Date: 02/22/10

Instrument ID: NT10 Project Run Date: 02/22/10

		IS1(PFB) AREA	#	RT	#	IS2(DFB) AREA	#	RT	#	IS3(CLB) AREA	#	RT	#
	ICAL MIDPT	456228		5.27		740651		5.66		686240		7.72	
	UPPER LIMIT	912456		5.77		1481302		6.16		1372480		8.22	
	LOWER LIMIT	228114		4.77		370326		5.16		343120		7.22	
	Sample ID												
01	ICV0222	431492		5.27		702592		5.66		655186		7.72	
02													
03													
04													
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22													

IS1 (PFB) = Pentafluorobenzene
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CLB) = d5-Chlorobenzene

AREA UPPER LIMIT = +100% of internal standard area from Ical midpoint
AREA LOWER LIMIT = - 50% of internal standard area from Ical midpoint
RT UPPER LIMIT = + 0.50 minutes of internal standard RT from Ical midpoint
RT LOWER LIMIT = - 0.50 minutes of internal standard RT from Ical midpoint

* Values outside of QC limits.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD-SNIDER

ARI Job No: QL85 Project: LORA LAKES APARTMENTS

Ical Midpoint ID: 1000222 Ical Date: 02/22/10

Instrument ID: NT10 Project Run Date: 02/22/10

		IS4 (DCB) AREA #	RT #	AREA #	RT #	AREA #	RT #
	ICAL MIDPT	249963	9.41				
	UPPER LIMIT	499926	9.91				
	LOWER LIMIT	124982	8.91				
	Sample ID						
01	ICV0222	236007	9.40				
02							
03							
04							
05							
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IS4 (DCB) = d4-1,4-Dichlorobenzene

AREA UPPER LIMIT = +100% of internal standard area from Ical midpoint
AREA LOWER LIMIT = - 50% of internal standard area from Ical midpoint
RT UPPER LIMIT = + 0.50 minutes of internal standard RT from Ical midpoint
RT LOWER LIMIT = - 0.50 minutes of internal standard RT from Ical midpoint

* Values outside of QC limits.

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD-SNIDER

ARI Job No: QL85 Project: LORA LAKES APARTMENTS

Ical Midpoint ID: 0400222 Ical Date: 02/22/10

Instrument ID: NT10 Project Run Date: 03/03/10

		IS1(PFB) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CLB) AREA #	RT #
	ICAL MIDPT	405719	5.27	648113	5.65	610243	7.72
	UPPER LIMIT	811438	5.77	1296226	6.15	1220486	8.22
	LOWER LIMIT	202860	4.77	324056	5.15	305122	7.22
	Sample ID						
01	LCS0303	462403	5.27	746307	5.66	677091	7.72
02	LCS0303	465782	5.27	745145	5.66	681740	7.72
03	MB0303	452862	5.27	731344	5.66	632400	7.71
04	TB022610	461699	5.27	739542	5.66	641178	7.71
05	CB31A022610G	458523	5.27	735174	5.66	645473	7.71
06	CB1022610GRA	441246	5.27	707633	5.66	618913	7.71
07	CB102022610G	433024	5.27	696611	5.66	608627	7.72
08	CB31A022610G	462920	5.27	754857	5.66	684793	7.71
09	CB31A022610G	451394	5.27	736222	5.66	671636	7.71
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IS1 (PFB) = Pentafluorobenzene
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CLB) = d5-Chlorobenzene

AREA UPPER LIMIT = +100% of internal standard area from Ical midpoint
AREA LOWER LIMIT = - 50% of internal standard area from Ical midpoint
RT UPPER LIMIT = + 0.50 minutes of internal standard RT from Ical midpoint
RT LOWER LIMIT = - 0.50 minutes of internal standard RT from Ical midpoint

* Values outside of QC limits.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD-SNIDER

ARI Job No: QL85 Project: LORA LAKES APARTMENTS

Ical Midpoint ID: 0400222 Ical Date: 02/22/10

Instrument ID: NT10 Project Run Date: 03/03/10

		IS4(DCB) AREA #	RT #	AREA #	RT #	AREA #	RT #
	ICAL MIDPT	240346	9.41				
	UPPER LIMIT	480692	9.91				
	LOWER LIMIT	120173	8.91				
	Sample ID						
01	LCS0303	283187	9.40				
02	LCS0303	289909	9.40				
03	MB0303	239199	9.40				
04	TB022610	244471	9.40				
05	CB31A022610G	250478	9.40				
06	CB1022610GRA	231758	9.40				
07	CB102022610G	223256	9.40				
08	CB31A022610G	253771	9.40				
09	CB31A022610G	250887	9.40				
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IS4 (DCB) = d4-1,4-Dichlorobenzene

AREA UPPER LIMIT = +100% of internal standard area from Ical midpoint
AREA LOWER LIMIT = - 50% of internal standard area from Ical midpoint
RT UPPER LIMIT = + 0.50 minutes of internal standard RT from Ical midpoint
RT LOWER LIMIT = - 0.50 minutes of internal standard RT from Ical midpoint

* Values outside of QC limits.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD-SNIDER

ARI Job No: 09MAR10 Project: LORA LAKES APARTMENTS

Ical Midpoint ID: 03091009 Ical Date: 03/09/10

Instrument ID: NT5 Project Run Date: 03/09/10

		IS1(PFB) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CLB) AREA #	RT #
	ICAL MIDPT	533597	4.74	1008019	5.19	848670	7.65
	UPPER LIMIT	1067194	5.24	2016038	5.69	1697340	8.15
	LOWER LIMIT	266798	4.24	504010	4.69	424335	7.15
	Sample ID						
01	ICV 10 PPB	531375	4.74	995676	5.19	859617	7.65
02							
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IS1 (PFB) = Pentafluorobenzene
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CLB) = d5-Chlorobenzene

AREA UPPER LIMIT = +100% of internal standard area from Ical midpoint
AREA LOWER LIMIT = - 50% of internal standard area from Ical midpoint
RT UPPER LIMIT = + 0.50 minutes of internal standard RT from Ical midpoint
RT LOWER LIMIT = - 0.50 minutes of internal standard RT from Ical midpoint

* Values outside of QC limits.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD-SNIDER

ARI Job No: 09MAR10 Project: LORA LAKES APARTMENTS

Ical Midpoint ID: 03091009 Ical Date: 03/09/10

Instrument ID: NT5 Project Run Date: 03/09/10

		IS4(DCB) AREA #	RT #	AREA #	RT #	AREA #	RT #
	ICAL MIDPT	392019	9.71				
	UPPER LIMIT	784038	10.21				
	LOWER LIMIT	196010	9.21				
	Sample ID						
01	ICV 10 PPB	406093	9.71				
02							
03							
04							
05							
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IS4 (DCB) = d4-1,4-Dichlorobenzene

AREA UPPER LIMIT = +100% of internal standard area from Ical midpoint
AREA LOWER LIMIT = - 50% of internal standard area from Ical midpoint
RT UPPER LIMIT = + 0.50 minutes of internal standard RT from Ical midpoint
RT LOWER LIMIT = - 0.50 minutes of internal standard RT from Ical midpoint

* Values outside of QC limits.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD-SNIDER

ARI Job No: 09MAR10 Project: LORA LAKES APARTMENTS

Ical Midpoint ID: 03091009 Ical Date: 03/09/10

Instrument ID: NT5 Project Run Date: 03/09/10

		IS1(PFB) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CLB) AREA #	RT #
	ICAL MIDPT	533597	4.74	1008019	5.19	848670	7.65
	UPPER LIMIT	1067194	5.24	2016038	5.69	1697340	8.15
	LOWER LIMIT	266798	4.24	504010	4.69	424335	7.15
	Sample ID						
01	LCS0309	516416	4.74	975738	5.19	838733	7.65
02	LCSD0309	538108	4.74	994577	5.19	840294	7.65
03	MB0309A	508755	4.75	971922	5.19	852684	7.65
04	CB4857022610	513897	4.74	946643	5.19	833730	7.65
05							
06							
07							
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10							
11							
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14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 (PFB) = Pentafluorobenzene
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CLB) = d5-Chlorobenzene

AREA UPPER LIMIT = +100% of internal standard area from Ical midpoint
AREA LOWER LIMIT = - 50% of internal standard area from Ical midpoint
RT UPPER LIMIT = + 0.50 minutes of internal standard RT from Ical midpoint
RT LOWER LIMIT = - 0.50 minutes of internal standard RT from Ical midpoint

* Values outside of QC limits.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD-SNIDER

ARI Job No: 09MAR10 Project: LORA LAKES APARTMENTS

Ical Midpoint ID: 03091009 Ical Date: 03/09/10

Instrument ID: NT5 Project Run Date: 03/09/10

		IS4(DCB) AREA #	RT #	AREA #	RT #	AREA #	RT #
	ICAL MIDPT	392019	9.71				
	UPPER LIMIT	784038	10.21				
	LOWER LIMIT	196010	9.21				
	Sample ID						
01	LCS0309	388692	9.71				
02	LCSD0309	395762	9.71				
03	MB0309A	377268	9.71				
04	CB4857022610	375806	9.71				
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS4 (DCB) = d4-1,4-Dichlorobenzene

AREA UPPER LIMIT = +100% of internal standard area from Ical midpoint
AREA LOWER LIMIT = - 50% of internal standard area from Ical midpoint
RT UPPER LIMIT = + 0.50 minutes of internal standard RT from Ical midpoint
RT LOWER LIMIT = - 0.50 minutes of internal standard RT from Ical midpoint

* Values outside of QC limits.

Volatile Analysis
Sample Data

prepared
for

Floyd-Snider

Project: Lora Lakes Apartments, POS-LLA

ARI JOB NO: QL85

prepared
by

Analytical Resources, Inc.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: CB31A022610GRAB SAMPLE**
Page 1 of 1

Lab Sample ID: QL85A
LIMS ID: 10-4943
Matrix: Water
Data Release Authorized:
Reported: 03/11/10

QC Report No: QL85-Floyd-Snider
Project: Lora Lakes Apartments POS-LLA
Date Sampled: 02/26/10
Date Received: 02/26/10

Instrument/Analyst: NT10/AAR
Date Analyzed: 03/03/10 15:17

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.2	< 0.2	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	103%

Analytical Resources, Inc.

8260C

AR 3/4/2010

Data file : /chem1/nt10.i/03MAR10.b/ql85a.d
Lab Smp Id: QL85A Client Smp ID: CB31A022610GRAB
Inj Date : 03-MAR-2010 15:17
Operator : ar Inst ID: nt10.i
Smp Info : QL85A,10,10,0
Misc Info : 10-4943
Comment :
Method : /chem1/nt10.i/03MAR10.b/82600122L.m
Meth Date : 04-Mar-2010 11:32 aron Quant Type: ISTD
Cal Date : 22-FEB-2010 15:12 Cal File: 6000222.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: voa.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	10.00000	Purge Volume (mL)
Sa	10.00000	Sample Amount (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
1 Dichlorodifluoromethane	85	Compound Not Detected.					
2 Chloromethane	50	Compound Not Detected.					
3 Vinyl Chloride	62	Compound Not Detected.					
4 Bromomethane	94	1.909	1.892	(0.362)	3563	0.20199	0.2020(M) RL
5 Chloroethane	64	Compound Not Detected.					
6 Trichlorofluoromethane	101	Compound Not Detected.					
8 Acrolein	56	Compound Not Detected.					
9 112Trichloro122Trifluoroethane	101	Compound Not Detected.					
10 Acetone	43	3.337	3.337	(0.633)	4774	2.25981	2.260(M) CRL
11 1,1-Dichloroethene	96	Compound Not Detected.					
12 Bromoethane	108	Compound Not Detected.					
13 Iodomethane	142	Compound Not Detected.					
14 Methylene Chloride	84	Compound Not Detected.					
15 Acrylonitrile	53	Compound Not Detected.					
16 Methyl tert butyl ether	73	Compound Not Detected.					
17 Carbon Disulfide	76	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
	18 Trans-1,2-Dichloroethene	96	Compound Not Detected.					
	20 Vinyl Acetate	43	Compound Not Detected.					
	21 1,1-Dichloroethane	63	Compound Not Detected.					
	23 2,2-Dichloropropane	77	Compound Not Detected.					
	24 Cis-1,2-Dichloroethene	96	Compound Not Detected.					
*	25 Pentafluorobenzene	168	5.272	5.272	(1.000)	458523	10.0000	
	26 Chloroform	83	Compound Not Detected.					
	27 Bromochloromethane	128	Compound Not Detected.					
$	28 Dibromofluoromethane	111	4.885	4.885	(0.927)	192229	10.0524	10.052
	29 1,1,1-Trichloroethane	97	Compound Not Detected.					
	30 1,1-Dichloropropene	75	Compound Not Detected.					
	31 Carbon Tetrachloride	117	Compound Not Detected.					
$	32 d4-1,2-Dichloroethane	65	5.295	5.290	(1.004)	172762	10.2733	10.273
	33 1,2-Dichloroethane	62	Compound Not Detected.					
	34 Benzene	78	Compound Not Detected.					
*	35 1,4-Difluorobenzene	114	5.659	5.659	(1.000)	735174	10.0000	
	36 Trichloroethene	95	Compound Not Detected.					
	37 1,2-Dichloropropane	63	Compound Not Detected.					
	38 Bromodichloromethane	83	Compound Not Detected.					
	39 Dibromomethane	93	Compound Not Detected.					
	40 2-Chloroethyl Vinyl Ether	63	Compound Not Detected.					
	41 4-Methyl-2-Pentanone	58	6.945	6.946	(1.227)	3563	0.90487	0.9049(Q)
	42 Cis 1,3-dichloropropene	75	Compound Not Detected.					
$	43 d8-Toluene	98	6.632	6.633	(1.172)	916330	10.2291	10.229
	44 Toluene	92	Compound Not Detected.					
	45 Trans 1,3-Dichloropropene	75	Compound Not Detected.					
	46 2-Hexanone	43	7.526	7.526	(0.976)	664	0.11804	0.1180(QM)
	47 1,1,2-Trichloroethane	97	Compound Not Detected.					
	48 1,3-Dichloropropane	76	Compound Not Detected.					
	49 Tetrachloroethene	166	Compound Not Detected.					
	50 Chlorodibromomethane	129	Compound Not Detected.					
	51 1,2-Dibromoethane	107	Compound Not Detected.					
*	52 d5-Chlorobenzene	117	7.714	7.720	(1.000)	645473	10.0000	
	53 Chlorobenzene	112	Compound Not Detected.					
	54 Ethyl Benzene	91	Compound Not Detected.					
	55 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
	56 m,p-xylene	106	Compound Not Detected.					
	58 o-Xylene	106	Compound Not Detected.					
	59 Styrene	104	Compound Not Detected.					
	60 Isopropyl Benzene	105	Compound Not Detected.					
	61 Bromoform	173	Compound Not Detected.					
	62 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
$	63 4-Bromofluorobenzene	95	8.584	8.585	(1.113)	273621	10.4491	10.449
	64 1,2,3-Trichloropropane	110	Compound Not Detected.					
	65 Trans-1,4-Dichloro 2-Butene	53	Compound Not Detected.					
	66 N-Propyl Benzene	91	Compound Not Detected.					
	67 Bromobenzene	156	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
68	1,3,5-Trimethyl Benzene	105	Compound Not Detected.					
69	2-Chloro Toluene	91	Compound Not Detected.					
70	4-Chloro Toluene	91	Compound Not Detected.					
71	T-Butyl Benzene	119	Compound Not Detected.					
72	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
73	S-Butyl Benzene	105	Compound Not Detected.					
74	4-Isopropyl Toluene	119	Compound Not Detected.					
75	1,3-Dichlorobenzene	146	Compound Not Detected.					
* 76	d4-1,4-Dichlorobenzene	152	9.404	9.410	(1.000)	250478	10.0000	
77	1,4-Dichlorobenzene	146	Compound Not Detected.					
78	N-Butyl Benzene	91	Compound Not Detected.					
$ 79	d4-1,2-Dichlorobenzene	152	9.728	9.734	(1.034)	205569	10.5533	10.553
80	1,2-Dichlorobenzene	146	Compound Not Detected.					
81	1,2-Dibromo 3-Chloropropane	75	Compound Not Detected.					
82	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
83	Hexachloro 1,3-Butadiene	225	Compound Not Detected.					
84	Naphthalene	128	Compound Not Detected.					
85	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: ql85a.d
Lab Smp Id: QL85A
Analysis Type: VOA
Quant Type: ISTD
Operator: ar
Method File: /chem1/nt10.i/03MAR10.b/82600122L.m
Misc Info: 10-4943

Calibration Date: 03-MAR-2010
Calibration Time: 12:36
Client Smp ID: CB31A022610GRAB
Level: LOW
Sample Type: Water

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
25 Pentafluorobenzen	456228	228114	912456	458523	0.50
35 1,4-Difluorobenze	740651	370326	1481302	735174	-0.74
52 d5-Chlorobenzene	686240	343120	1372480	645473	-5.94
76 d4-1,4-Dichlorobe	249963	124982	499926	250478	0.21

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
25 Pentafluorobenzen	5.27	4.77	5.77	5.27	0.00
35 1,4-Difluorobenze	5.66	5.16	6.16	5.66	0.00
52 d5-Chlorobenzene	7.72	7.22	8.22	7.71	-0.08
76 d4-1,4-Dichlorobe	9.40	8.90	9.90	9.40	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Floyd-Snider
Sample Matrix: LIQUID
Lab Smp Id: QL85A
Level: LOW
Data Type: MS DATA
SpikeList File: allspike.spk
Sublist File: voa.sub
Method File: /chem1/nt10.i/03MAR10.b/82600122L.m
Misc Info: 10-4943

Client SDG: QL85
Fraction: VOA
Client Smp ID: CB31A022610GRAB
Operator: ar
SampleType: SAMPLE
Quant Type: ISTD

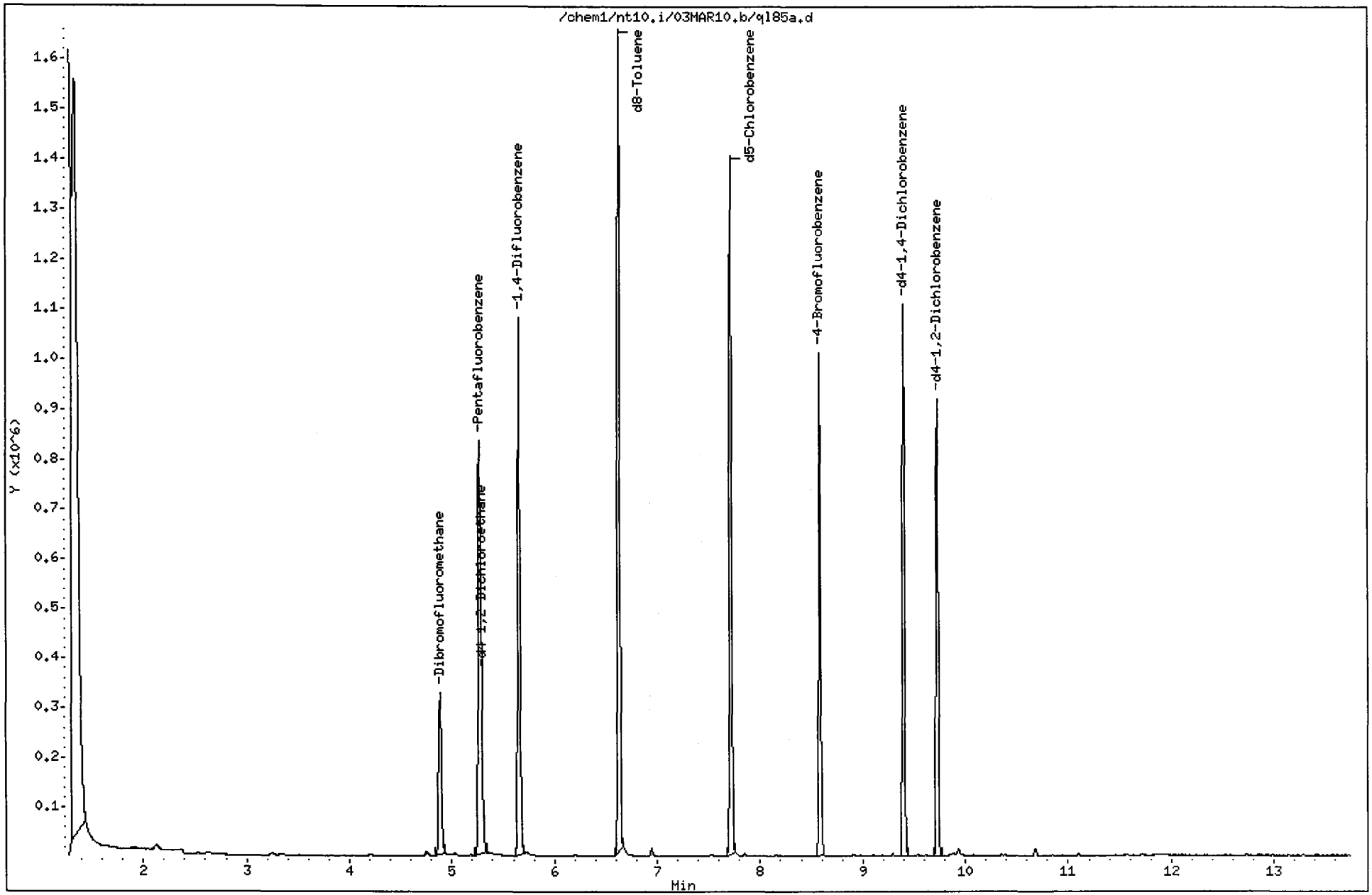
SURROGATE COMPOUND	AMOUNT ADDED ug/L	AMOUNT RECOVERED ug/L	% RECOVERED	LIMITS
$ 28 Dibromofluorometha	10.000	10.052	100.52	60-130
$ 32 d4-1,2-Dichloroeth	10.000	10.273	102.73	80-143
$ 43 d8-Toluene	10.000	10.229	102.29	80-120
$ 63 4-Bromofluorobenze	10.000	10.449	104.49	80-120
$ 79 d4-1,2-Dichloroben	10.000	10.553	105.53	80-120

Data File: /chem1/nt10.i/03MAR10.b/ql85a.d
Date : 03-MAR-2010 15:17
Client ID: CB31A022610GRAB
Sample Info: QL85A,10,10,0

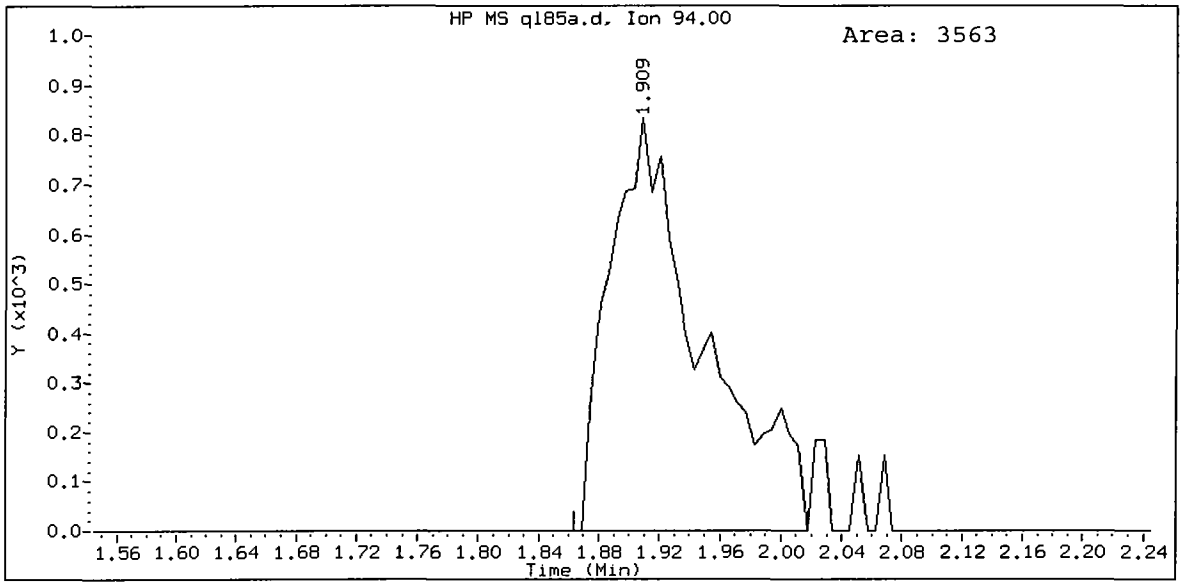
Instrument: nt10.i

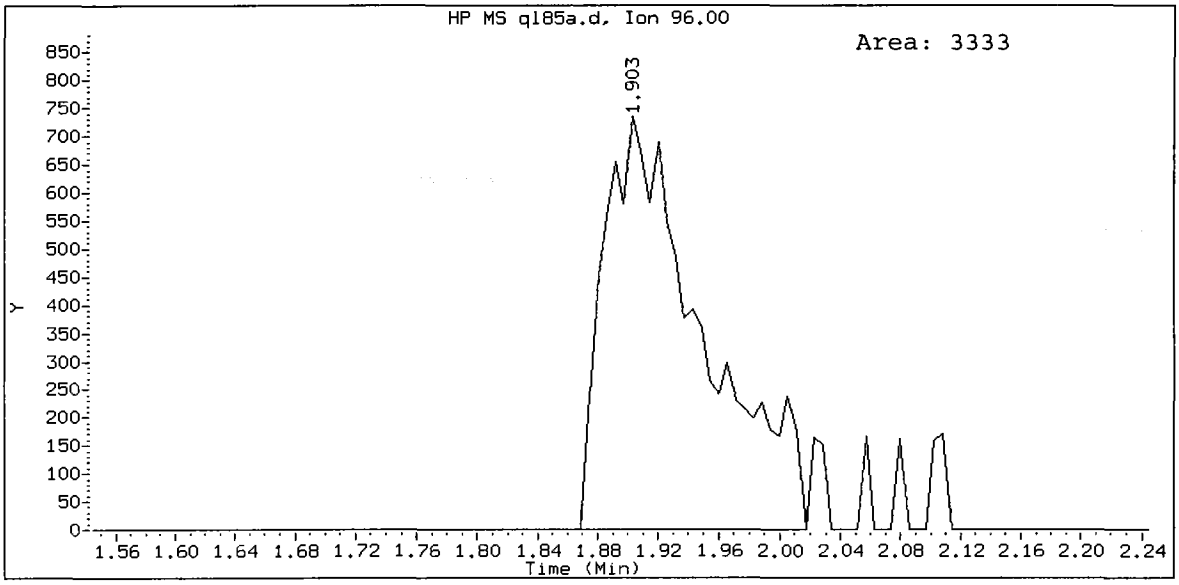
Operator: ar
Column diameter: 0.18

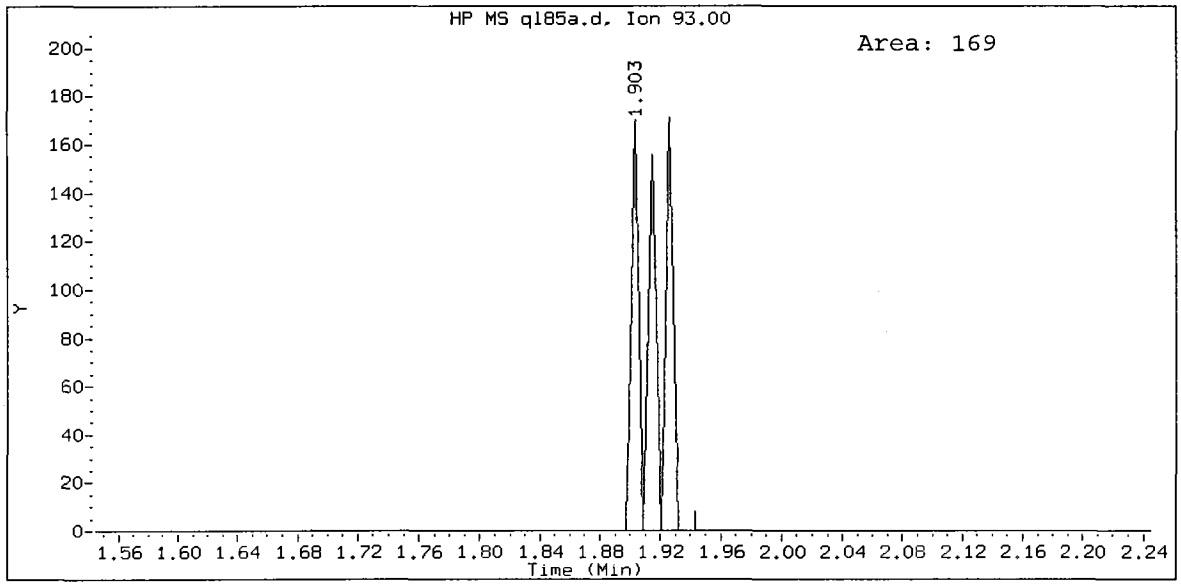
Column phase: RTX502.2



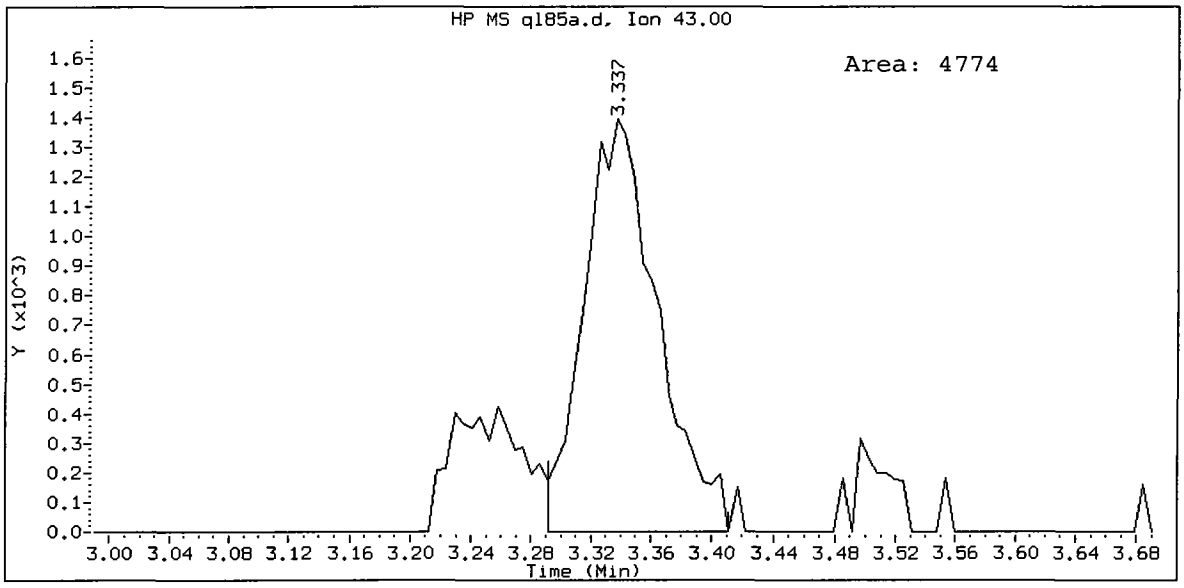
QL85A, /chem1/nt10.i/03MAR10.b/ql85a.d
Bromomethane Amount: 0.20

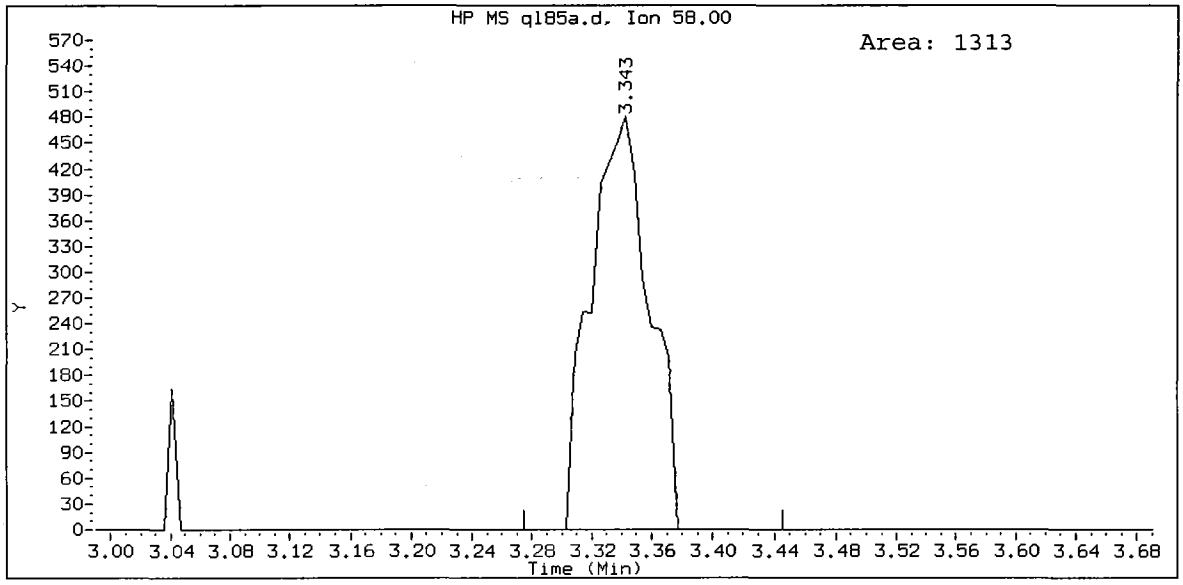




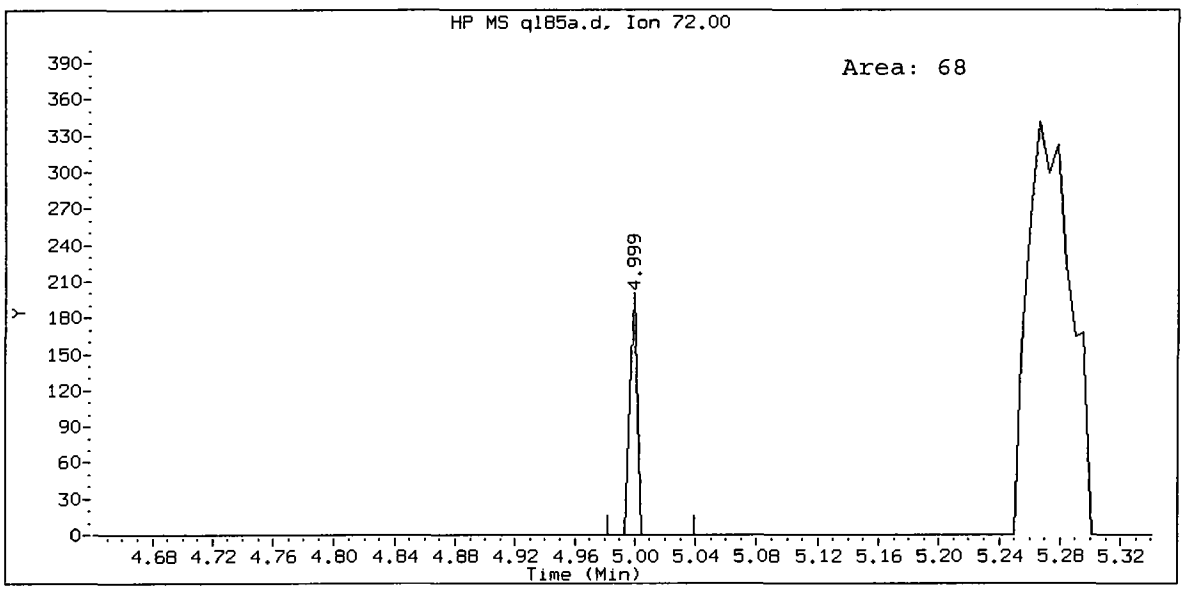


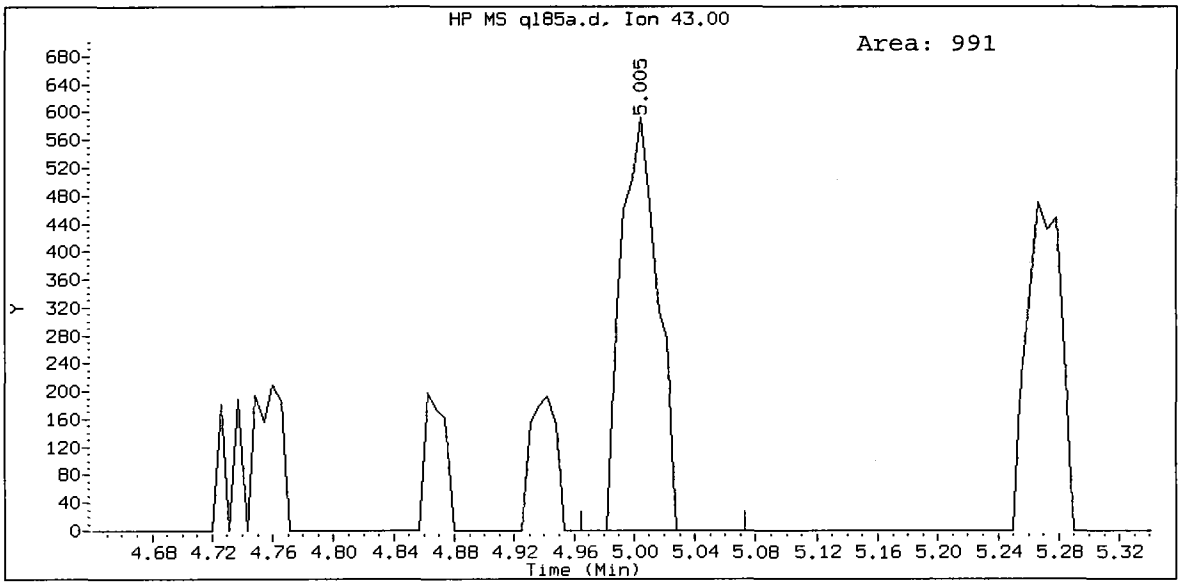
QL85A, /chem1/nt10.i/03MAR10.b/ql85a.d
Acetone Amount: 2.26

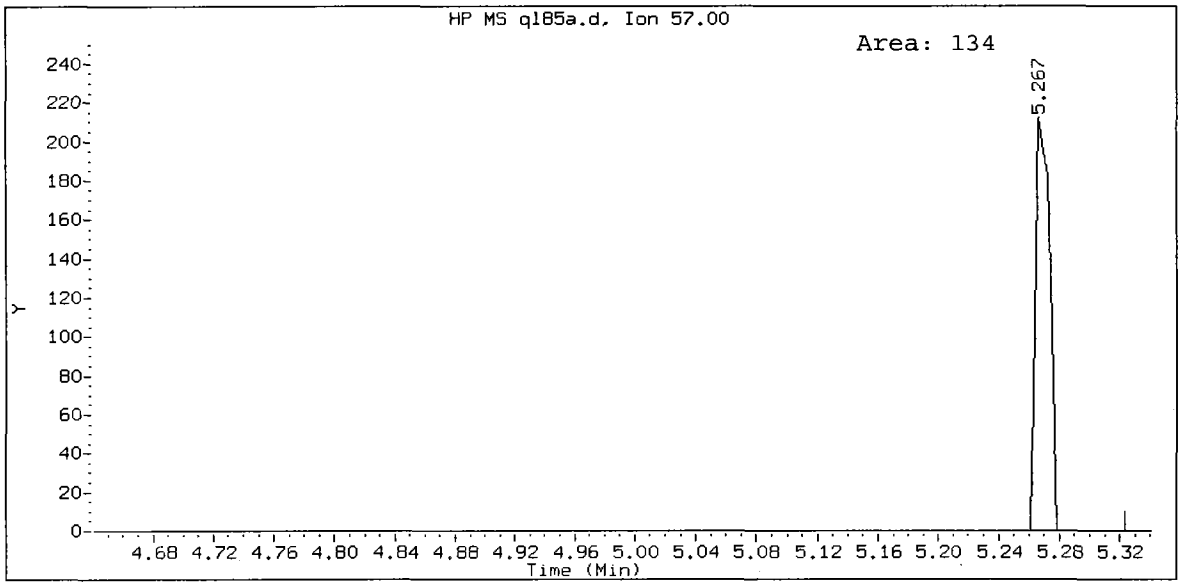




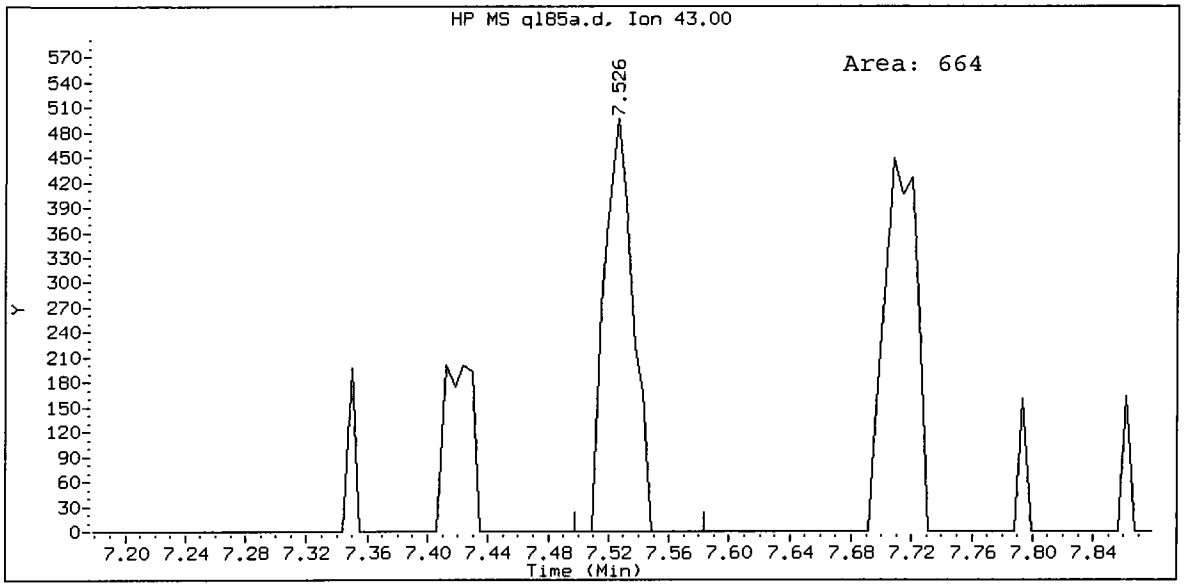
QL85A, /chem1/nt10.i/03MAR10.b/ql85a.d
2-Butanone Amount: 0.05

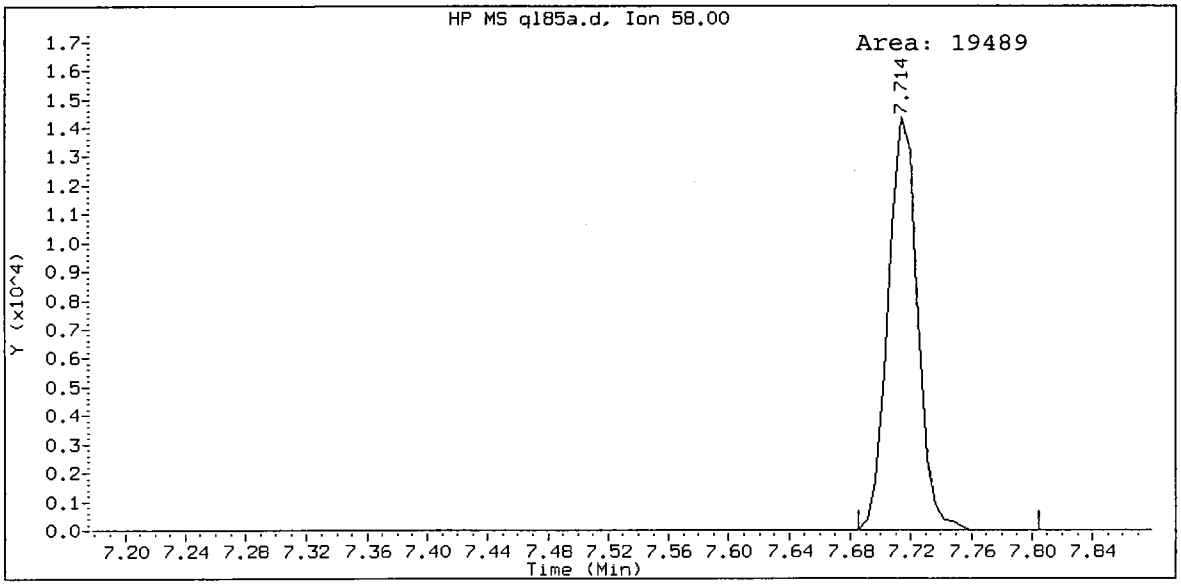


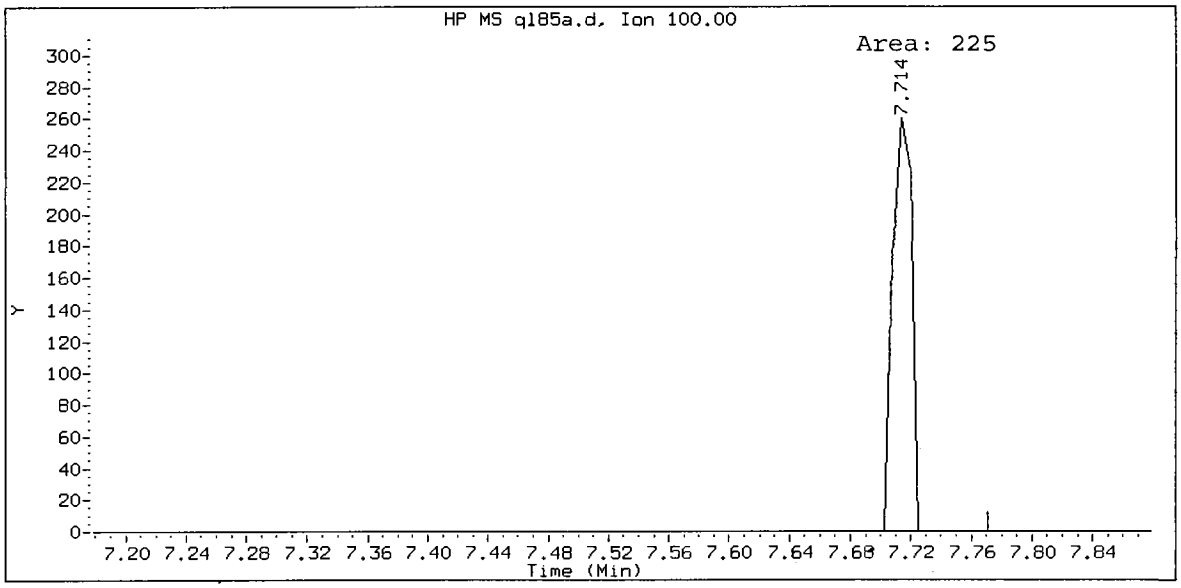




QL85A, /chem1/nt10.i/03MAR10.b/ql85a.d
2-Hexanone Amount: 0.12







ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: CB4857022610GRAB SAMPLE**
Page 1 of 1

Lab Sample ID: QL85B
LIMS ID: 10-4944
Matrix: Water
Data Release Authorized:
Reported: 03/11/10

QC Report No: QL85-Floyd-Snider
Project: Lora Lakes Apartments POS-LLA
Date Sampled: 02/26/10
Date Received: 02/26/10

Instrument/Analyst: NT5/PKC
Date Analyzed: 03/09/10 23:41

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.2	< 0.2	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	102%

PG 3/10/10

Analytical Resources, Inc.

SW8260C 10 ML

Data file : /chem1/nt5.i/09MAR10A.b/03091031.d
Lab Smp Id: QL85B Client Smp ID: CB4857022610GRAB
Inj Date : 09-MAR-2010 23:41
Operator : PC Inst ID: nt5.i
Smp Info : QL85B,10,10,0,
Misc Info : 10-4944
Comment :
Method : /chem1/nt5.i/09MAR10A.b/8260c030910L.m
Meth Date : 10-Mar-2010 11:28 paul Quant Type: ISTD
Cal Date : 09-MAR-2010 16:45 Cal File: 03091017.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	10.00000	Purge Volume (mL)
Sa	10.00000	Sample Amount (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
1 Dichlorodifluoromethane	85	Compound Not Detected.					
2 Chloromethane	50	Compound Not Detected.					
3 Vinyl Chloride	62	Compound Not Detected.					
4 Bromomethane	94	Compound Not Detected.					
5 Chloroethane	64	Compound Not Detected.					
6 Trichlorofluoromethane	101	Compound Not Detected.					
12 Acrolein	56	Compound Not Detected.					
9 112Trichloro122Trifluoroethane	101	Compound Not Detected.					
14 Acetone	43	2.595	2.590	(0.548)	10428	2.00454	2.005
7 1,1-Dichloroethene	96	Compound Not Detected.					
11 Bromoethane	108	Compound Not Detected.					
10 Iodomethane	142	Compound Not Detected.					
13 Methylene Chloride	84	Compound Not Detected.					
18 Acrylonitrile	53	Compound Not Detected.					
16 Methyl tert butyl ether	73	Compound Not Detected.					
8 Carbon Disulfide	76	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
	15 Trans-1,2-Dichloroethene	96	Compound Not Detected.					
	19 Vinyl Acetate	43	Compound Not Detected.					
	17 1,1-Dichloroethane	63	Compound Not Detected.					
	29 2-Butanone	72	Compound Not Detected.					
	21 2,2-Dichloropropane	77	Compound Not Detected.					
	20 Cis-1,2-Dichloroethene	96	Compound Not Detected.					
*	32 Pentafluorobenzene	168	4.739	4.739	(1.000)	513897	10.0000	
	23 Chloroform	83	Compound Not Detected.					
	22 Bromochloromethane	128	Compound Not Detected.					
$	25 Dibromofluoromethane	111	4.264	4.264	(0.900)	233556	9.73149	9.731
	26 1,1,1-Trichloroethane	97	Compound Not Detected.					
	28 1,1-Dichloropropene	75	Compound Not Detected.					
	24 Carbon Tetrachloride	117	Compound Not Detected.					
$	31 d4-1,2-Dichloroethane	65	4.728	4.728	(0.998)	277384	10.1581	10.158
	33 1,2-Dichloroethane	62	Compound Not Detected.					
	30 Benzene	78	Compound Not Detected.					
*	35 1,4-Difluorobenzene	114	5.186	5.186	(1.000)	946643	10.0000	
	34 Trichloroethene	130	Compound Not Detected.					
	38 1,2-Dichloropropane	63	Compound Not Detected.					
	39 Bromodichloromethane	83	Compound Not Detected.					
	37 Dibromomethane	93	Compound Not Detected.					
	40 2-Chloroethyl Vinyl Ether	63	Compound Not Detected.					
	45 4-Methyl-2-Pentanone	58	Compound Not Detected.					
	41 Cis 1,3-dichloropropene	75	Compound Not Detected.					
$	42 d8-Toluene	98	6.346	6.346	(1.224)	1093883	9.93815	9.938
	43 Toluene	92	Compound Not Detected.					
	46 Trans 1,3-Dichloropropene	75	Compound Not Detected.					
	51 2-Hexanone	43	Compound Not Detected.					
	47 1,1,2-Trichloroethane	97	Compound Not Detected.					
	49 1,3-Dichloropropane	76	Compound Not Detected.					
	44 Tetrachloroethene	166	Compound Not Detected.					
	48 Chlorodibromomethane	129	Compound Not Detected.					
	50 1,2-Dibromoethane	107	Compound Not Detected.					
*	52 d5-Chlorobenzene	117	7.647	7.647	(1.000)	833730	10.0000	
	53 Chlorobenzene	112	Compound Not Detected.					
	54 Ethyl Benzene	91	Compound Not Detected.					
	55 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
	56 m,p-xylene	106	Compound Not Detected.					
	57 o-Xylene	106	Compound Not Detected.					
	58 Styrene	104	Compound Not Detected.					
	60 Isopropyl Benzene	105	Compound Not Detected.					
	59 Bromoform	173	Compound Not Detected.					
	64 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
$	61 4-Bromofluorobenzene	95	8.716	8.716	(1.140)	388270	9.78513	9.785
	66 1,2,3-Trichloropropane	110	Compound Not Detected.					
	68 Trans-1,4-Dichloro 2-Butene	53	Compound Not Detected.					
	63 N-Propyl Benzene	91	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
	62 Bromobenzene	156	Compound Not Detected.					
	67 1,3,5-Trimethyl Benzene	105	Compound Not Detected.					
	65 2-Chloro Toluene	91	Compound Not Detected.					
	69 4-Chloro Toluene	91	Compound Not Detected.					
	70 T-Butyl Benzene	119	Compound Not Detected.					
	71 1,2,4-Trimethylbenzene	105	Compound Not Detected.					
	72 S-Butyl Benzene	105	Compound Not Detected.					
	73 4-Isopropyl Toluene	119	Compound Not Detected.					
	74 1,3-Dichlorobenzene	146	Compound Not Detected.					
*	75 d4-1,4-Dichlorobenzene	152	9.712	9.712	(1.000)	375806	10.0000	
	76 1,4-Dichlorobenzene	146	Compound Not Detected.					
	77 N-Butyl Benzene	91	Compound Not Detected.					
$	78 d4-1,2-Dichlorobenzene	152	10.091	10.091	(1.039)	325751	9.84509	9.845
	79 1,2-Dichlorobenzene	146	Compound Not Detected.					
	81 1,2-Dibromo 3-Chloropropane	75	Compound Not Detected.					
	83 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
	82 Hexachloro 1,3-Butadiene	225	Compound Not Detected.					
	84 Naphthalene	128	Compound Not Detected.					
	85 1,2,3-Trichlorobenzene	180	Compound Not Detected.					

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt5.i
Lab File ID: 03091031.d
Lab Smp Id: QL85B
Analysis Type: VOA
Quant Type: ISTD
Operator: PC
Method File: /chem1/nt5.i/09MAR10A.b/8260c030910L.m
Misc Info: 10-4944

Calibration Date: 09-MAR-2010
Calibration Time: 18:59
Client Smp ID: CB4857022610GRAB
Level: LOW
Sample Type: Water

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
32 Pentafluorobenzen	526014	263007	1052028	513897	-2.30
35 1,4-Difluorobenze	985179	492590	1970358	946643	-3.91
52 d5-Chlorobenzene	845025	422512	1690050	833730	-1.34
75 d4-1,4-Dichlorobe	383446	191723	766892	375806	-1.99

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
32 Pentafluorobenzen	4.74	4.24	5.24	4.74	0.00
35 1,4-Difluorobenze	5.19	4.69	5.69	5.19	0.00
52 d5-Chlorobenzene	7.65	7.15	8.15	7.65	0.00
75 d4-1,4-Dichlorobe	9.71	9.21	10.21	9.71	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Floyd-Snider
Sample Matrix: LIQUID
Lab Smp Id: QL85B
Level: LOW
Data Type: MS DATA
SpikeList File: all.spk
Sublist File: voa.sub
Method File: /chem1/nt5.i/09MAR10A.b/8260c030910L.m
Misc Info: 10-4944

Client SDG: QL85
Fraction: VOA
Client Smp ID: CB4857022610GRAB
Operator: PC
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	AMOUNT ADDED ug/L	AMOUNT RECOVERED ug/L	% RECOVERED	LIMITS
$ 25 Dibromofluorometha	10.000	9.731	97.31	64-133
$ 31 d4-1,2-Dichloroeth	10.000	10.158	101.58	80-132
$ 42 d8-Toluene	10.000	9.938	99.38	80-120
$ 61 4-Bromofluorobenze	10.000	9.785	97.85	80-120
$ 78 d4-1,2-Dichloroben	10.000	9.845	98.45	80-120

Data File: /chem1/nt5.i/09MAR10A.b/03091031.d

Date : 09-MAR-2010 23:41

Client ID: CB4857022610GRAB

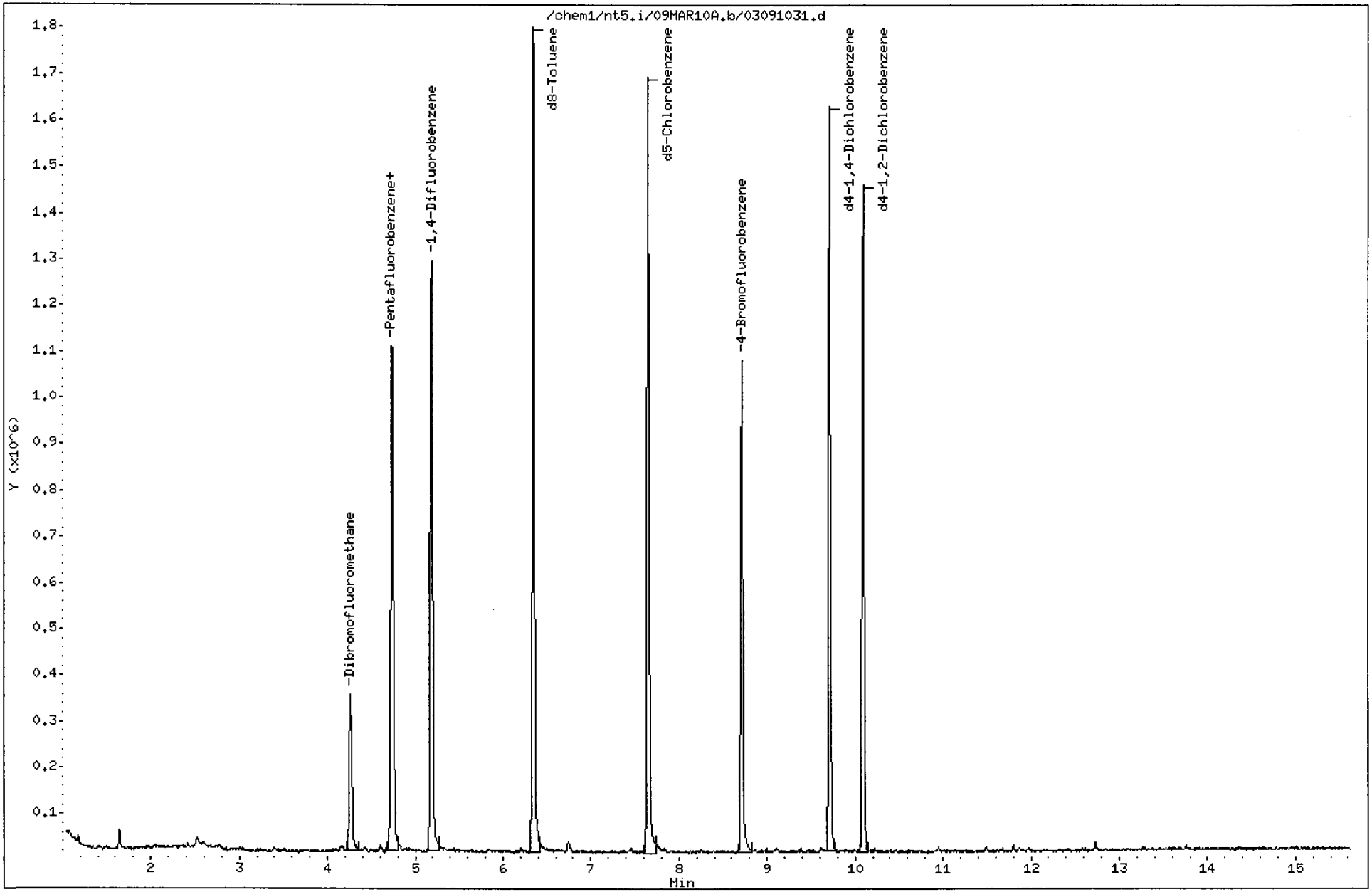
Sample Info: QL85B,10,10,0,

Column phase: RTXVMS

Instrument: nt5.i

Operator: PC

Column diameter: 0.18



ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: CB1022610GRAB**
Page 1 of 1 **SAMPLE**

Lab Sample ID: QL85C
LIMS ID: 10-4945
Matrix: Water
Data Release Authorized:
Reported: 03/11/10

QC Report No: QL85-Floyd-Snider
Project: Lora Lakes Apartments
POS-LLA
Date Sampled: 02/26/10
Date Received: 02/26/10

Instrument/Analyst: NT10/AAR
Date Analyzed: 03/03/10 18:19

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.2	< 0.2	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	101%

Analytical Resources, Inc. AR 3/4/2010

8260C

Data file : /chem1/nt10.i/03MAR10.b/ql85c.d
Lab Smp Id: QL85C Client Smp ID: CB1022610GRAB
Inj Date : 03-MAR-2010 18:19
Operator : ar Inst ID: nt10.i
Smp Info : QL85C,10,10,0
Misc Info : 10-4945
Comment :
Method : /chem1/nt10.i/03MAR10.b/82600122L.m
Meth Date : 04-Mar-2010 11:32 aron Quant Type: ISTD
Cal Date : 22-FEB-2010 15:12 Cal File: 6000222.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: voa.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	10.00000	Purge Volume (mL)
Sa	10.00000	Sample Amount (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
1 Dichlorodifluoromethane	85	Compound Not Detected.					
2 Chloromethane	50	Compound Not Detected.					
3 Vinyl Chloride	62	Compound Not Detected.					
4 Bromomethane	94	1.903	1.892	(0.361)	2268	0.13360	0.1336(M)
5 Chloroethane	64	Compound Not Detected.					
6 Trichlorofluoromethane	101	Compound Not Detected.					
8 Acrolein	56	Compound Not Detected.					
9 112Trichloro122Trifluoroethane	101	Compound Not Detected.					
10 Acetone	43	3.332	3.337	(0.632)	3904	1.92052	1.921(M)
11 1,1-Dichloroethene	96	Compound Not Detected.					
12 Bromoethane	108	Compound Not Detected.					
13 Iodomethane	142	Compound Not Detected.					
14 Methylene Chloride	84	Compound Not Detected.					
15 Acrylonitrile	53	Compound Not Detected.					
16 Methyl tert butyl ether	73	Compound Not Detected.					
17 Carbon Disulfide	76	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
	18 Trans-1,2-Dichloroethene	96	Compound Not Detected.					
	20 Vinyl Acetate	43	Compound Not Detected.					
	21 1,1-Dichloroethane	63	Compound Not Detected.					
	22 2-Butanone	72	Compound Not Detected.					
	23 2,2-Dichloropropane	77	Compound Not Detected.					
	24 Cis-1,2-Dichloroethene	96	Compound Not Detected.					
*	25 Pentafluorobenzene	168	5.272	5.272	(1.000)	441246	10.0000	
	26 Chloroform	83	Compound Not Detected.					
	27 Bromochloromethane	128	Compound Not Detected.					
$	28 Dibromofluoromethane	111	4.885	4.885	(0.927)	181490	9.86239	9.862
	29 1,1,1-Trichloroethane	97	Compound Not Detected.					
	30 1,1-Dichloropropene	75	Compound Not Detected.					
	31 Carbon Tetrachloride	117	Compound Not Detected.					
$	32 d4-1,2-Dichloroethane	65	5.289	5.290	(1.003)	163499	10.1031	10.103
	33 1,2-Dichloroethane	62	Compound Not Detected.					
	34 Benzene	78	Compound Not Detected.					
*	35 1,4-Difluorobenzene	114	5.659	5.659	(1.000)	707633	10.0000	
	36 Trichloroethene	95	Compound Not Detected.					
	37 1,2-Dichloropropane	63	Compound Not Detected.					
	38 Bromodichloromethane	83	Compound Not Detected.					
	39 Dibromomethane	93	Compound Not Detected.					
	40 2-Chloroethyl Vinyl Ether	63	Compound Not Detected.					
	42 Cis 1,3-dichloropropene	75	Compound Not Detected.					
$	43 d8-Toluene	98	6.633	6.633	(1.172)	882172	10.2311	10.231
	44 Toluene	92	Compound Not Detected.					
	45 Trans 1,3-Dichloropropene	75	Compound Not Detected.					
	47 1,1,2-Trichloroethane	97	Compound Not Detected.					
	48 1,3-Dichloropropane	76	Compound Not Detected.					
	49 Tetrachloroethene	166	Compound Not Detected.					
	50 Chlorodibromomethane	129	Compound Not Detected.					
	51 1,2-Dibromoethane	107	Compound Not Detected.					
*	52 d5-Chlorobenzene	117	7.714	7.720	(1.000)	618913	10.0000	
	53 Chlorobenzene	112	Compound Not Detected.					
	54 Ethyl Benzene	91	Compound Not Detected.					
	55 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
	56 m,p-xylene	106	Compound Not Detected.					
	58 o-Xylene	106	Compound Not Detected.					
	59 Styrene	104	Compound Not Detected.					
	60 Isopropyl Benzene	105	Compound Not Detected.					
	61 Bromoform	173	Compound Not Detected.					
	62 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
$	63 4-Bromofluorobenzene	95	8.585	8.585	(1.113)	258660	10.3017	10.302
	64 1,2,3-Trichloropropane	110	Compound Not Detected.					
	65 Trans-1,4-Dichloro 2-Butene	53	Compound Not Detected.					
	66 N-Propyl Benzene	91	Compound Not Detected.					
	67 Bromobenzene	156	Compound Not Detected.					
	68 1,3,5-Trimethyl Benzene	105	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
69	2-Chloro Toluene	91	Compound Not Detected.					
70	4-Chloro Toluene	91	Compound Not Detected.					
71	T-Butyl Benzene	119	Compound Not Detected.					
72	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
73	S-Butyl Benzene	105	Compound Not Detected.					
74	4-Isopropyl Toluene	119	Compound Not Detected.					
75	1,3-Dichlorobenzene	146	Compound Not Detected.					
* 76	d4-1,4-Dichlorobenzene	152	9.404	9.410	(1.000)	231758	10.0000	
77	1,4-Dichlorobenzene	146	Compound Not Detected.					
78	N-Butyl Benzene	91	Compound Not Detected.					
$ 79	d4-1,2-Dichlorobenzene	152	9.728	9.734	(1.034)	188496	10.4584	10.458(Q)
80	1,2-Dichlorobenzene	146	Compound Not Detected.					
81	1,2-Dibromo 3-Chloropropane	75	Compound Not Detected.					
82	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
83	Hexachloro 1,3-Butadiene	225	Compound Not Detected.					
84	Naphthalene	128	Compound Not Detected.					
85	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: ql85c.d
Lab Smp Id: QL85C
Analysis Type: VOA
Quant Type: ISTD
Operator: ar
Method File: /chem1/nt10.i/03MAR10.b/82600122L.m
Misc Info: 10-4945

Calibration Date: 03-MAR-2010
Calibration Time: 12:36
Client Smp ID: CB1022610GRAB
Level: LOW
Sample Type: Water

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
25 Pentafluorobenzen	456228	228114	912456	441246	-3.28
35 1,4-Difluorobenze	740651	370326	1481302	707633	-4.46
52 d5-Chlorobenzene	686240	343120	1372480	618913	-9.81
76 d4-1,4-Dichlorobe	249963	124982	499926	231758	-7.28

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
25 Pentafluorobenzen	5.27	4.77	5.77	5.27	0.00
35 1,4-Difluorobenze	5.66	5.16	6.16	5.66	0.00
52 d5-Chlorobenzene	7.72	7.22	8.22	7.71	-0.07
76 d4-1,4-Dichlorobe	9.40	8.90	9.90	9.40	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Floyd-Snider
Client SDG: QL85
Sample Matrix: LIQUID
Fraction: VOA
Lab Smp Id: QL85C
Client Smp ID: CB1022610GRAB
Level: LOW
Operator: ar
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: allspike.spk
Quant Type: ISTD
Sublist File: voa.sub
Method File: /chem1/nt10.i/03MAR10.b/82600122L.m
Misc Info: 10-4945

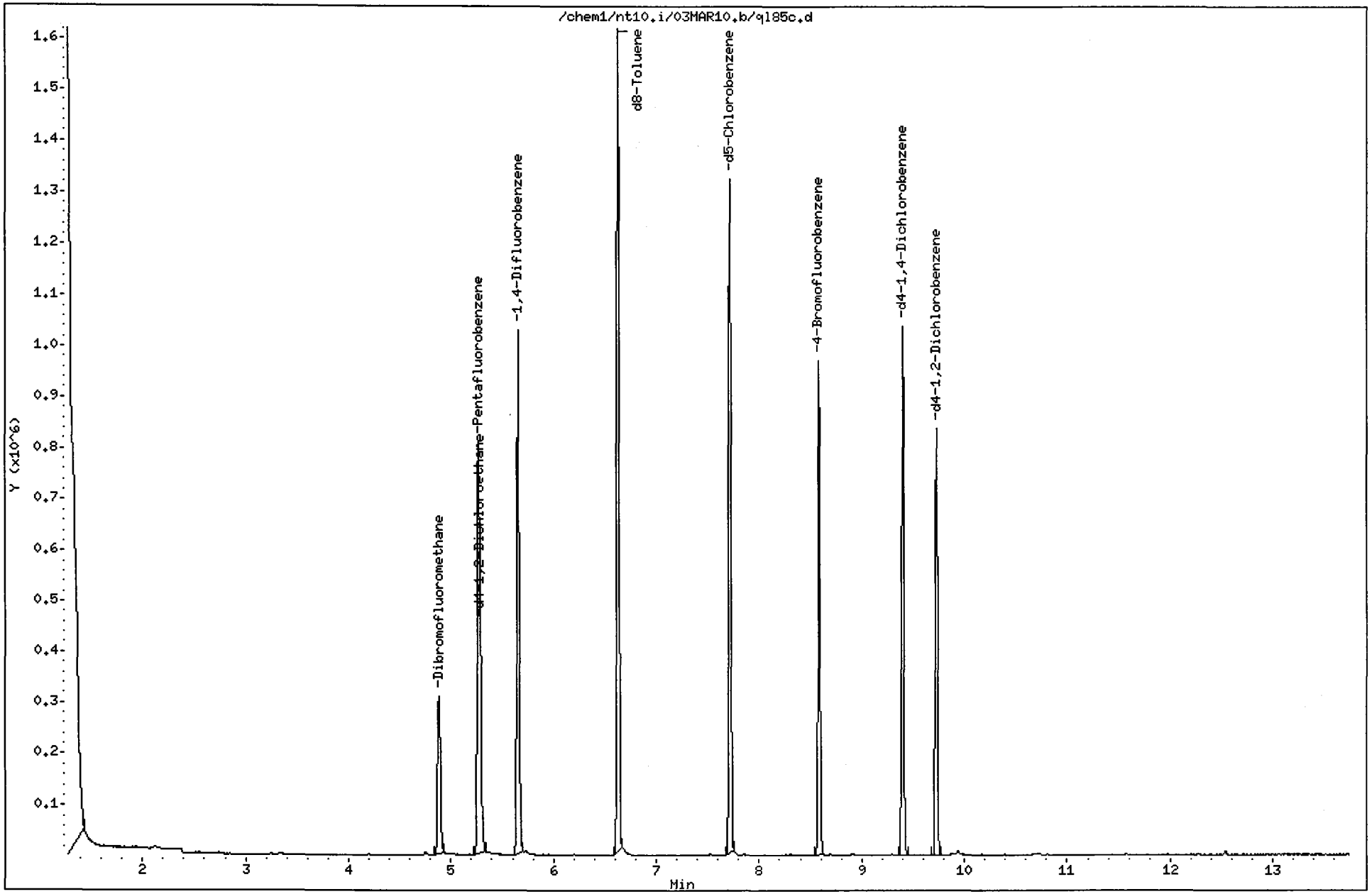
SURROGATE COMPOUND	AMOUNT ADDED ug/L	AMOUNT RECOVERED ug/L	% RECOVERED	LIMITS
$ 28 Dibromofluorometha	10.000	9.862	98.62	60-130
$ 32 d4-1,2-Dichloroeth	10.000	10.103	101.03	80-143
$ 43 d8-Toluene	10.000	10.231	102.31	80-120
$ 63 4-Bromofluorobenze	10.000	10.302	103.02	80-120
$ 79 d4-1,2-Dichloroben	10.000	10.458	104.58	80-120

Data File: /chem1/nt10.i/03MAR10.b/ql85c.d
Date : 03-MAR-2010 18:19
Client ID: CB1022610GRAB
Sample Info: QL85C,10,10,0

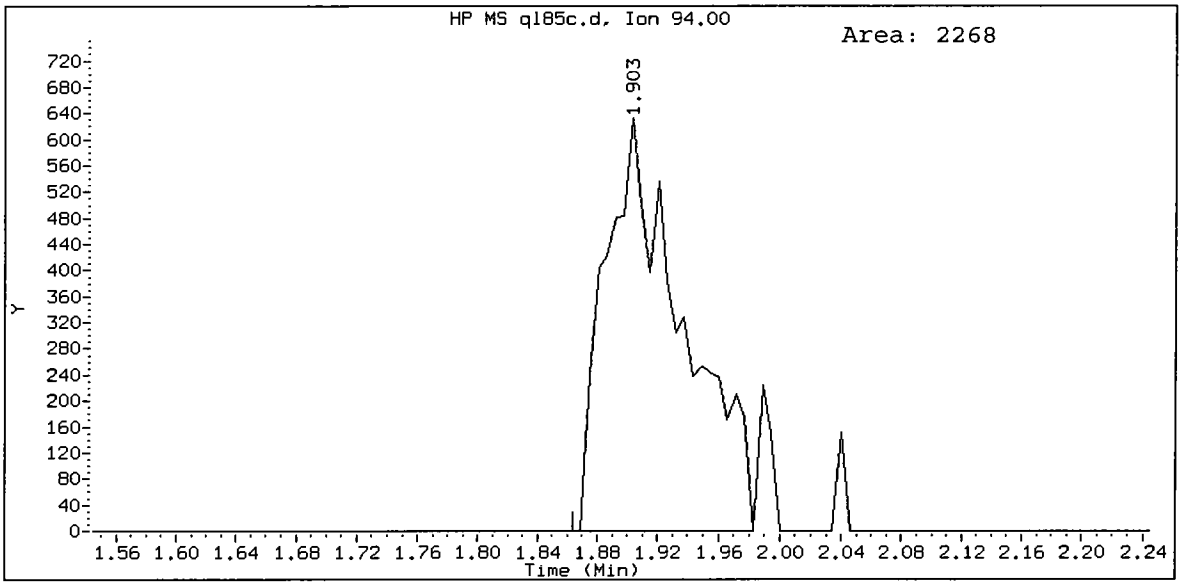
Column phase: RTX502.2

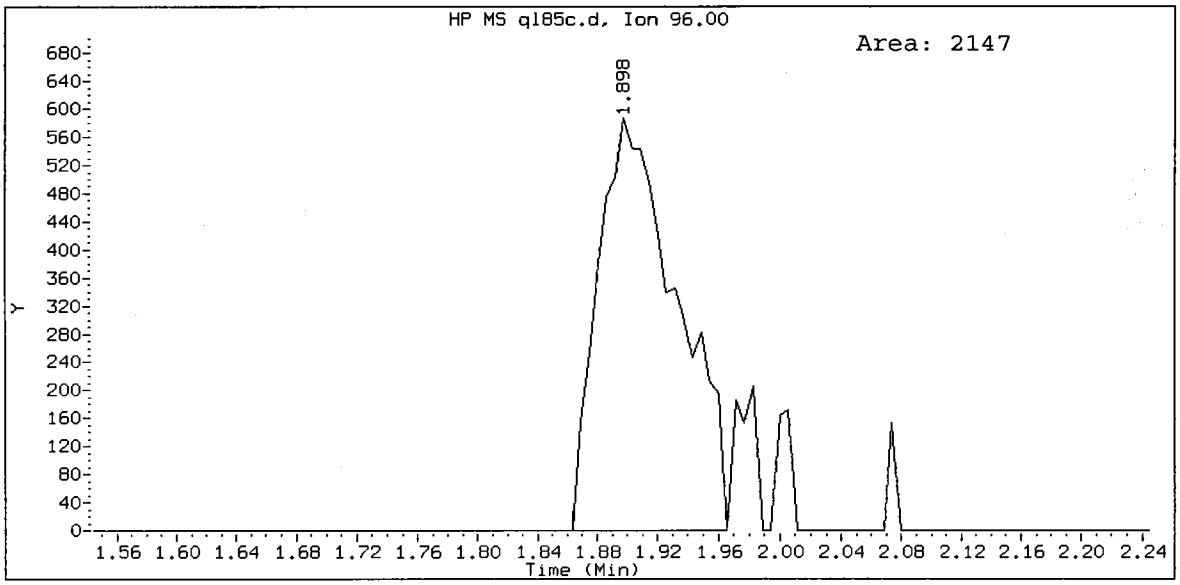
Instrument: nt10.i

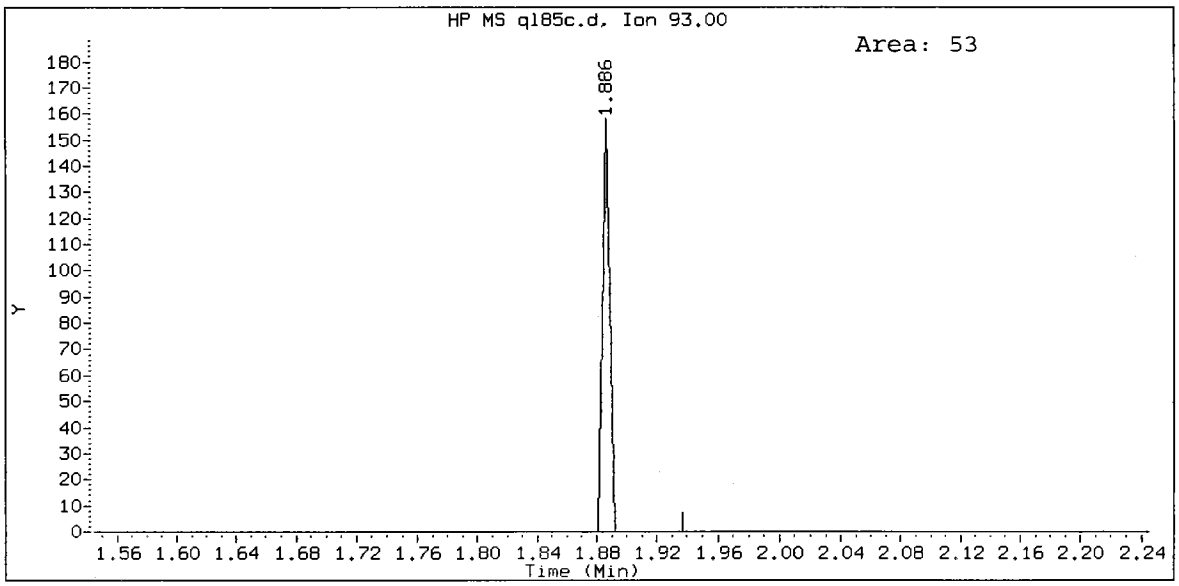
Operator: ar
Column diameter: 0.18



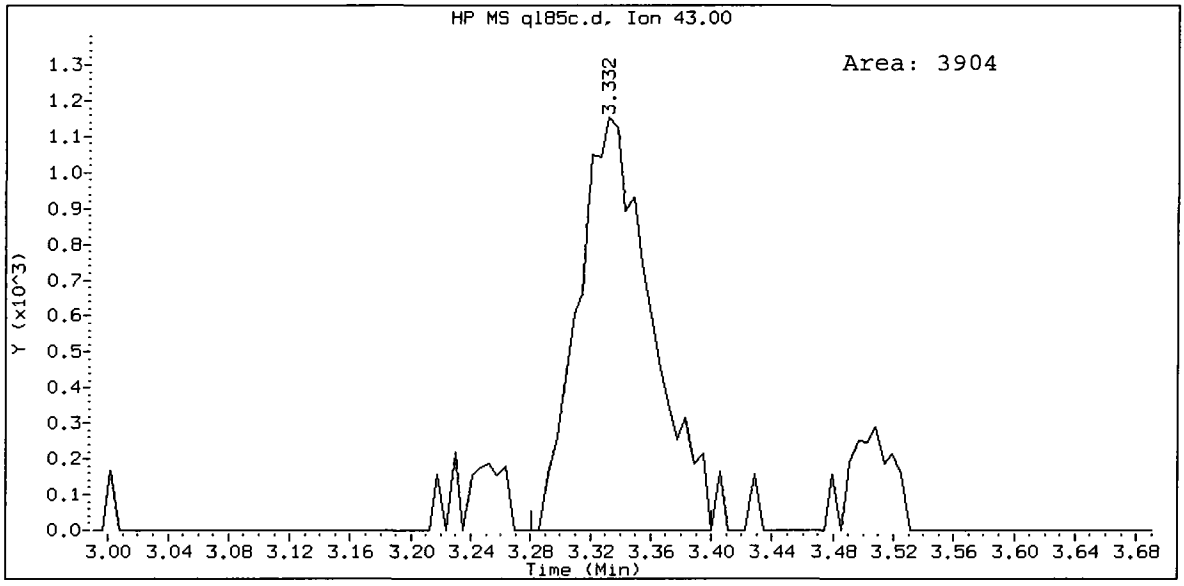
QL85C, /chem1/nt10.i/03MAR10.b/ql85c.d
Bromomethane Amount: 0.13

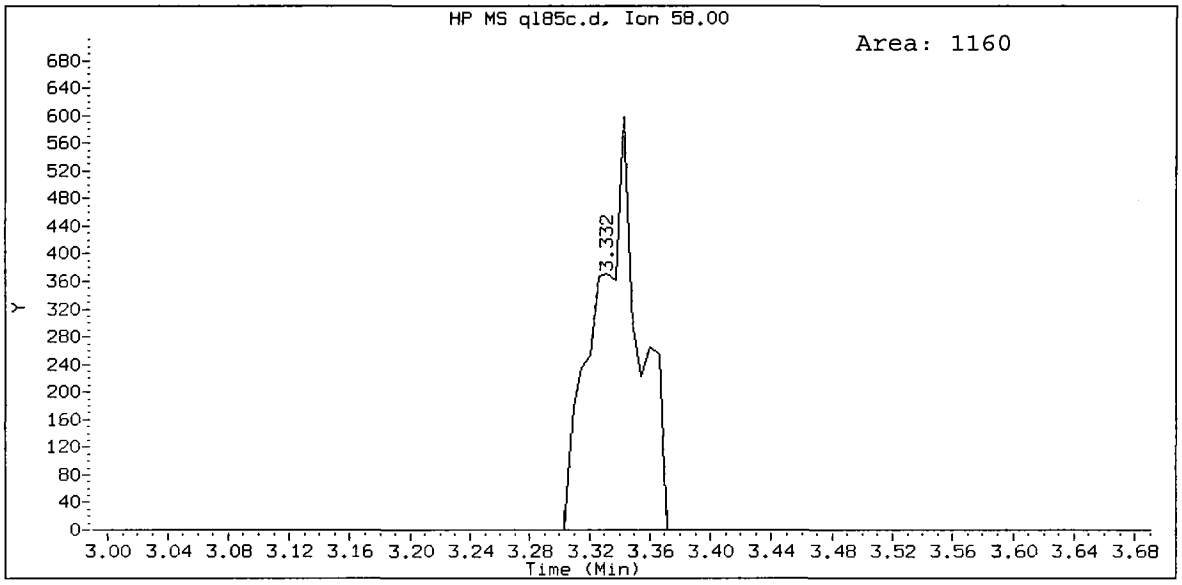




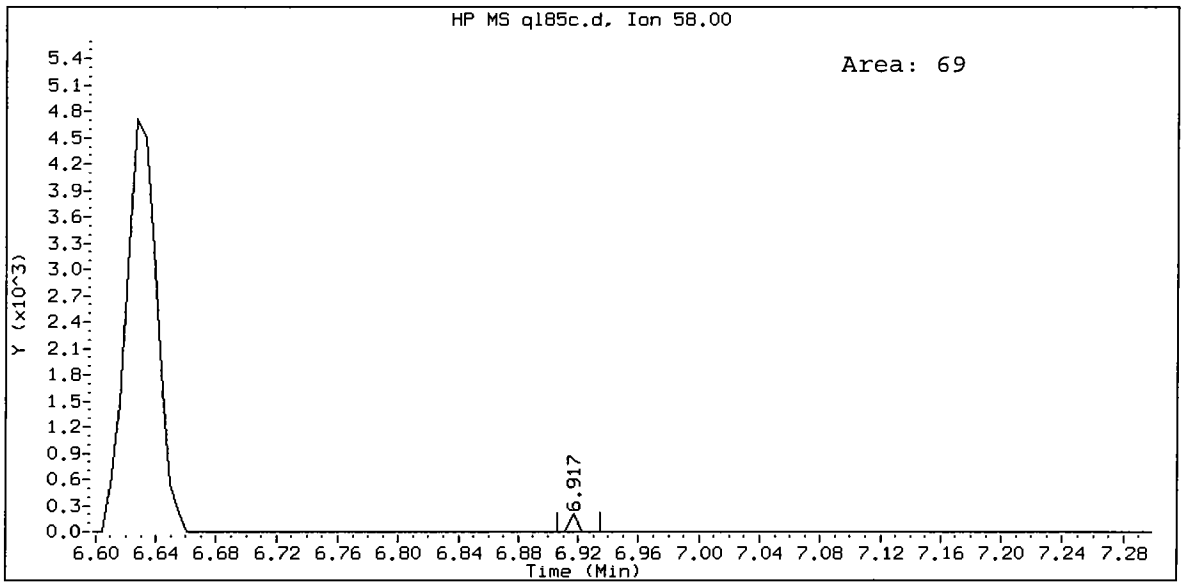


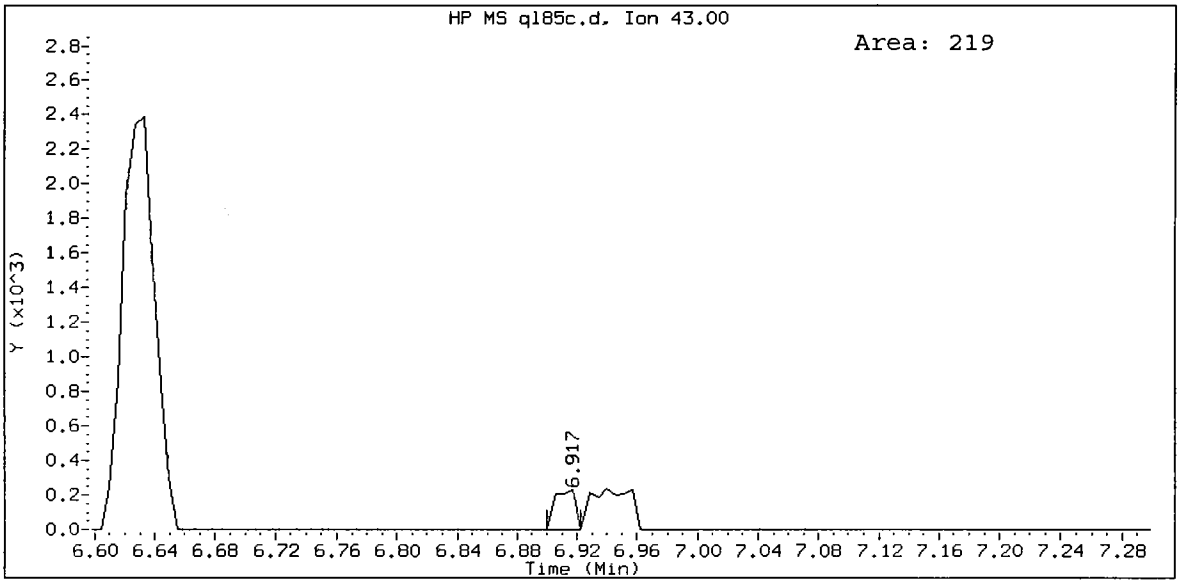
QL85C, /chem1/nt10.i/03MAR10.b/ql85c.d
Acetone Amount: 1.92

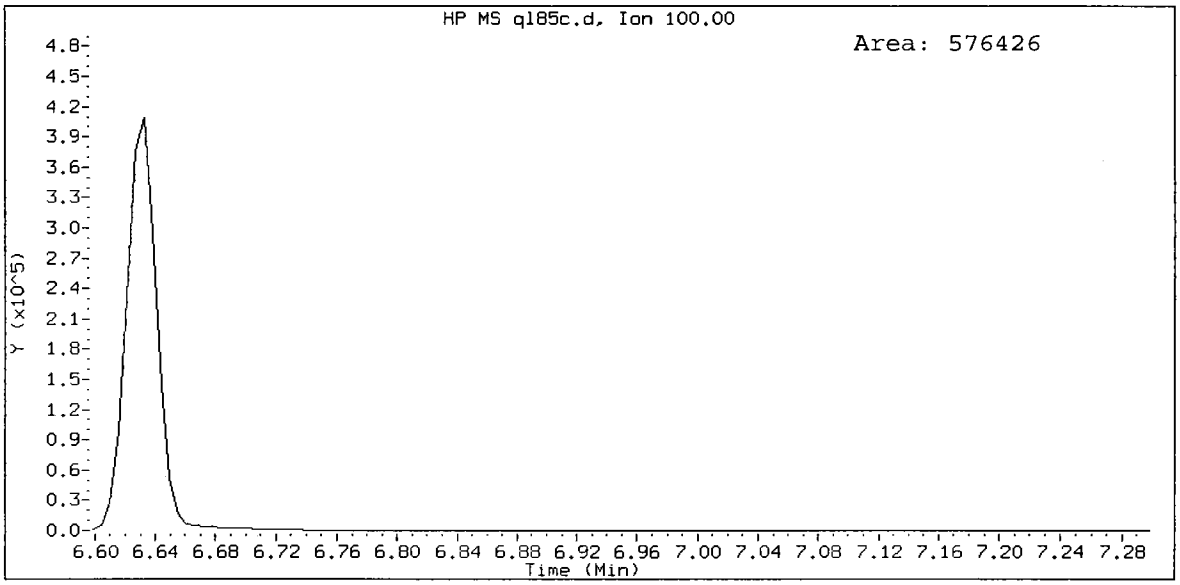




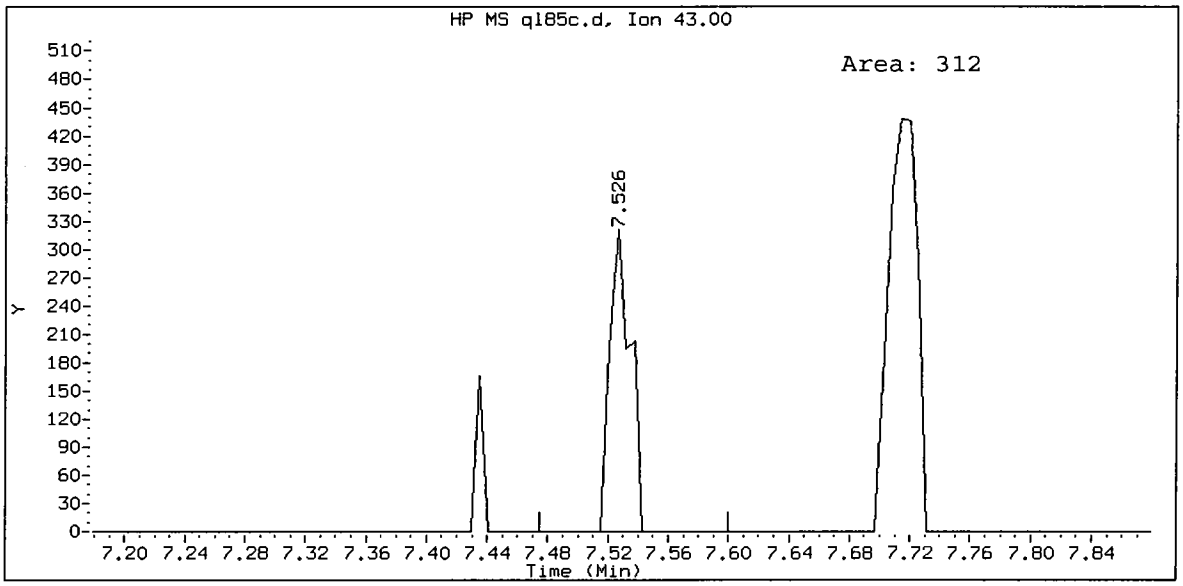
QL85C, /chem1/nt10.i/03MAR10.b/ql85c.d
4-Methyl-2-Pentanone Amount: 0.02

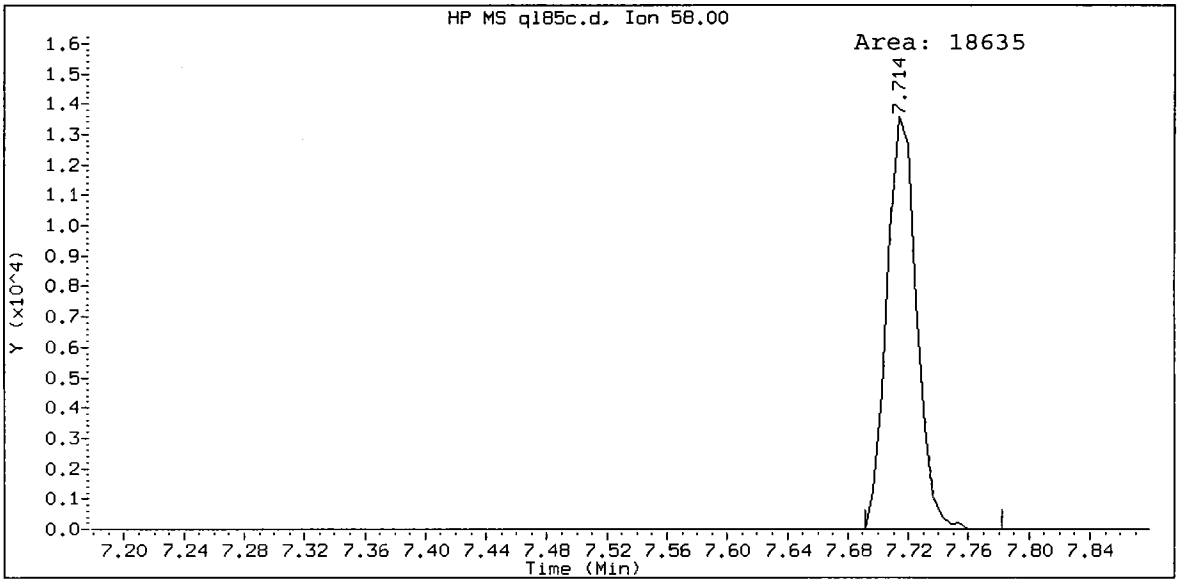


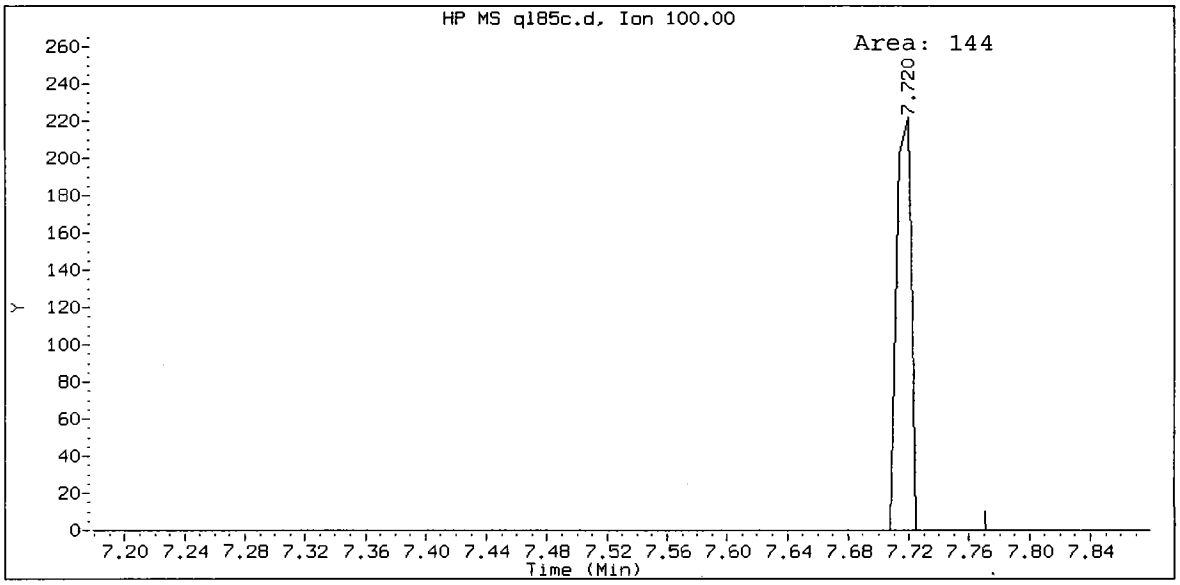




QL85C, /chem1/nt10.i/03MAR10.b/ql85c.d
2-Hexanone Amount: 0.06







ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: CB102022610GRAB**
Page 1 of 1 **SAMPLE**

Lab Sample ID: QL85D
LIMS ID: 10-4946
Matrix: Water
Data Release Authorized:
Reported: 03/11/10

QC Report No: QL85-Floyd-Snider
Project: Lora Lakes Apartments
POS-LLA
Date Sampled: 02/26/10
Date Received: 02/26/10

Instrument/Analyst: NT10/AAR
Date Analyzed: 03/03/10 18:49

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.2	< 0.2	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	102%

Analytical Resources, Inc.

AR 3/4/2010

8260C

Data file : /chem1/nt10.i/03MAR10.b/ql85d.d
Lab Smp Id: QL85D Client Smp ID: CB102022610GRAB
Inj Date : 03-MAR-2010 18:49
Operator : ar Inst ID: nt10.i
Smp Info : QL85D,10,10,0
Misc Info : 10-4946
Comment :
Method : /chem1/nt10.i/03MAR10.b/82600122L.m
Meth Date : 04-Mar-2010 11:32 aron Quant Type: ISTD
Cal Date : 22-FEB-2010 15:12 Cal File: 6000222.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: voa.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	10.00000	Purge Volume (mL)
Sa	10.00000	Sample Amount (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
1 Dichlorodifluoromethane	85	Compound Not Detected.					
2 Chloromethane	50	Compound Not Detected.					
3 Vinyl Chloride	62	Compound Not Detected.					
4 Bromomethane	94	Compound Not Detected.					
5 Chloroethane	64	Compound Not Detected.					
6 Trichlorofluoromethane	101	Compound Not Detected.					
8 Acrolein	56	Compound Not Detected.					
9 112Trichloro122Trifluoroethane	101	Compound Not Detected.					
10 Acetone	43	3.338	3.337	(0.633)	3597	1.80280	1.803
11 1,1-Dichloroethene	96	Compound Not Detected.					
12 Bromoethane	108	Compound Not Detected.					
13 Iodomethane	142	Compound Not Detected.					
14 Methylene Chloride	84	Compound Not Detected.					
15 Acrylonitrile	53	Compound Not Detected.					
16 Methyl tert butyl ether	73	Compound Not Detected.					
17 Carbon Disulfide	76	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
	18 Trans-1,2-Dichloroethene	96	Compound Not Detected.					
	20 Vinyl Acetate	43	Compound Not Detected.					
	21 1,1-Dichloroethane	63	Compound Not Detected.					
	22 2-Butanone	72	5.005	4.988	(0.949)	171	0.13325	0.1332(Q)
	23 2,2-Dichloropropane	77	Compound Not Detected.					
	24 Cis-1,2-Dichloroethene	96	Compound Not Detected.					
*	25 Pentafluorobenzene	168	5.273	5.272	(1.000)	433024	10.0000	
	26 Chloroform	83	Compound Not Detected.					
	27 Bromochloromethane	128	Compound Not Detected.					
$	28 Dibromofluoromethane	111	4.886	4.885	(0.927)	179839	9.95823	9.958
	29 1,1,1-Trichloroethane	97	Compound Not Detected.					
	30 1,1-Dichloropropene	75	Compound Not Detected.					
	31 Carbon Tetrachloride	117	Compound Not Detected.					
$	32 d4-1,2-Dichloroethane	65	5.290	5.290	(1.003)	162499	10.2320	10.232
	33 1,2-Dichloroethane	62	Compound Not Detected.					
	34 Benzene	78	Compound Not Detected.					
*	35 1,4-Difluorobenzene	114	5.660	5.659	(1.000)	696611	10.0000	
	36 Trichloroethene	95	Compound Not Detected.					
	37 1,2-Dichloropropane	63	Compound Not Detected.					
	38 Bromodichloromethane	83	Compound Not Detected.					
	39 Dibromomethane	93	Compound Not Detected.					
	40 2-Chloroethyl Vinyl Ether	63	Compound Not Detected.					
	42 Cis 1,3-dichloropropene	75	Compound Not Detected.					
$	43 d8-Toluene	98	6.633	6.633	(1.172)	856096	10.0857	10.086
	44 Toluene	92	Compound Not Detected.					
	45 Trans 1,3-Dichloropropene	75	Compound Not Detected.					
	47 1,1,2-Trichloroethane	97	Compound Not Detected.					
	48 1,3-Dichloropropane	76	Compound Not Detected.					
	49 Tetrachloroethene	166	Compound Not Detected.					
	50 Chlorodibromomethane	129	Compound Not Detected.					
	51 1,2-Dibromoethane	107	Compound Not Detected.					
*	52 d5-Chlorobenzene	117	7.720	7.720	(1.000)	608627	10.0000	
	53 Chlorobenzene	112	Compound Not Detected.					
	54 Ethyl Benzene	91	Compound Not Detected.					
	55 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
	56 m,p-xylene	106	Compound Not Detected.					
	58 o-Xylene	106	Compound Not Detected.					
	59 Styrene	104	Compound Not Detected.					
	60 Isopropyl Benzene	105	Compound Not Detected.					
	61 Bromoform	173	Compound Not Detected.					
	62 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
$	63 4-Bromofluorobenzene	95	8.585	8.585	(1.112)	252066	10.2087	10.209
	64 1,2,3-Trichloropropane	110	Compound Not Detected.					
	65 Trans-1,4-Dichloro 2-Butene	53	Compound Not Detected.					
	66 N-Propyl Benzene	91	Compound Not Detected.					
	67 Bromobenzene	156	Compound Not Detected.					
	68 1,3,5-Trimethyl Benzene	105	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
69	2-Chloro Toluene	91	Compound Not Detected.					
70	4-Chloro Toluene	91	Compound Not Detected.					
71	T-Butyl Benzene	119	Compound Not Detected.					
72	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
73	S-Butyl Benzene	105	Compound Not Detected.					
74	4-Isopropyl Toluene	119	Compound Not Detected.					
75	1,3-Dichlorobenzene	146	Compound Not Detected.					
* 76	d4-1,4-Dichlorobenzene	152	9.404	9.410	(1.000)	223256	10.0000	
77	1,4-Dichlorobenzene	146	Compound Not Detected.					
78	N-Butyl Benzene	91	Compound Not Detected.					
$ 79	d4-1,2-Dichlorobenzene	152	9.734	9.734	(1.035)	180389	10.3898	10.390
80	1,2-Dichlorobenzene	146	Compound Not Detected.					
81	1,2-Dibromo 3-Chloropropane	75	Compound Not Detected.					
82	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
83	Hexachloro 1,3-Butadiene	225	Compound Not Detected.					
84	Naphthalene	128	Compound Not Detected.					
85	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: ql85d.d
Lab Smp Id: QL85D
Analysis Type: VOA
Quant Type: ISTD
Operator: ar
Method File: /chem1/nt10.i/03MAR10.b/82600122L.m
Misc Info: 10-4946

Calibration Date: 03-MAR-2010
Calibration Time: 12:36
Client Smp ID: CB102022610GRAB
Level: LOW
Sample Type: Water

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
25 Pentafluorobenzen	456228	228114	912456	433024	-5.09
35 1,4-Difluorobenze	740651	370326	1481302	696611	-5.95
52 d5-Chlorobenzene	686240	343120	1372480	608627	-11.31
76 d4-1,4-Dichlorobe	249963	124982	499926	223256	-10.68

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
25 Pentafluorobenzen	5.27	4.77	5.77	5.27	0.00
35 1,4-Difluorobenze	5.66	5.16	6.16	5.66	0.00
52 d5-Chlorobenzene	7.72	7.22	8.22	7.72	0.00
76 d4-1,4-Dichlorobe	9.40	8.90	9.90	9.40	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Floyd-Snider
Sample Matrix: LIQUID
Lab Smp Id: QL85D
Level: LOW
Data Type: MS DATA
SpikeList File: allspike.spk
Sublist File: voa.sub
Method File: /chem1/nt10.i/03MAR10.b/82600122L.m
Misc Info: 10-4946

Client SDG: QL85
Fraction: VOA
Client Smp ID: CB102022610GRAB
Operator: ar
SampleType: SAMPLE
Quant Type: ISTD

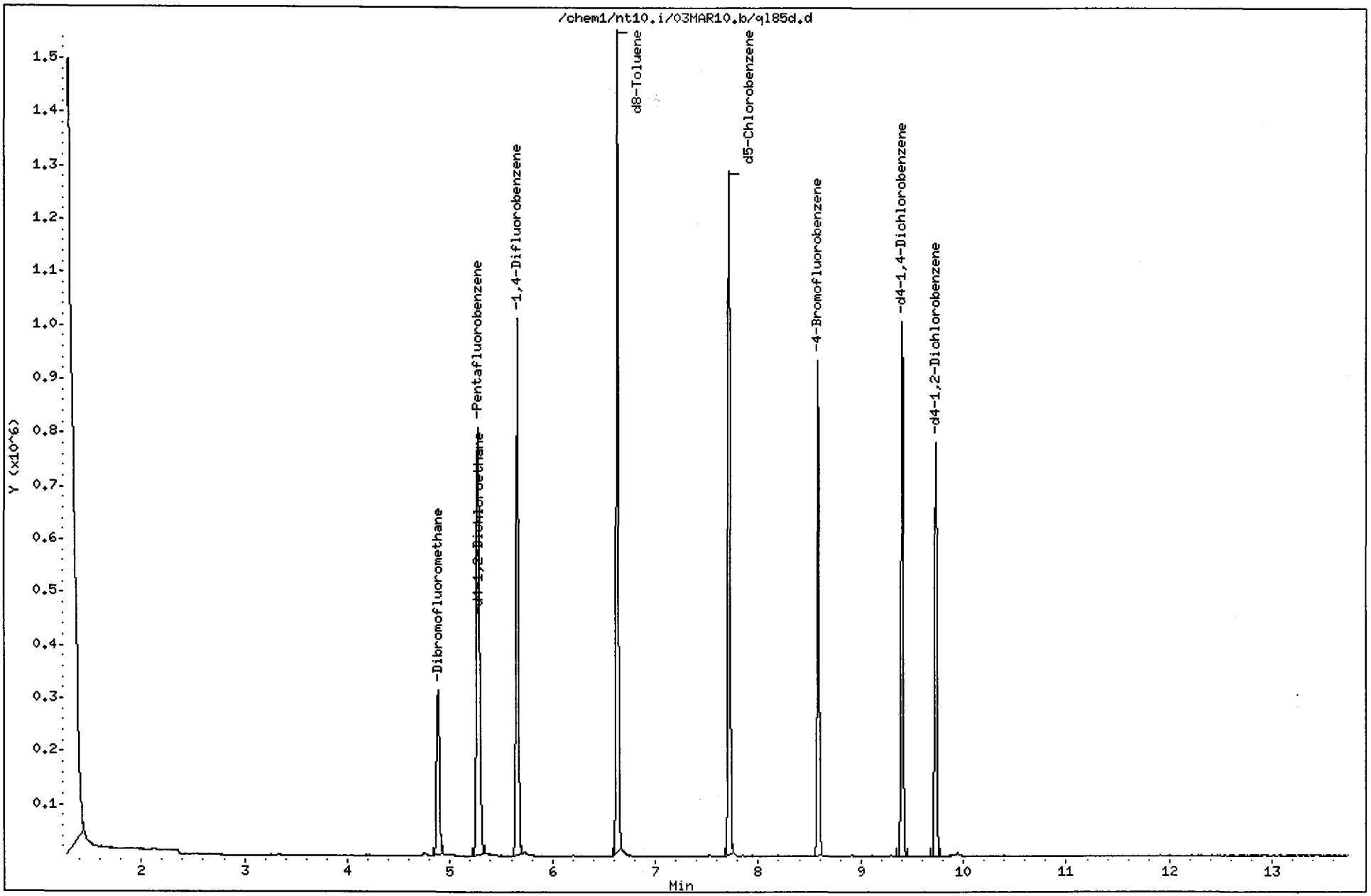
SURROGATE COMPOUND	AMOUNT ADDED ug/L	AMOUNT RECOVERED ug/L	% RECOVERED	LIMITS
$ 28 Dibromofluorometha	10.000	9.958	99.58	60-130
$ 32 d4-1,2-Dichloroeth	10.000	10.232	102.32	80-143
$ 43 d8-Toluene	10.000	10.086	100.86	80-120
$ 63 4-Bromofluorobenze	10.000	10.209	102.09	80-120
$ 79 d4-1,2-Dichloroben	10.000	10.390	103.90	80-120

Data File: /chem1/nt10.i/03MAR10.b/ql85d.d
Date : 03-MAR-2010 18:49
Client ID: CB102022610GRAB
Sample Info: QL85D,10,10,0

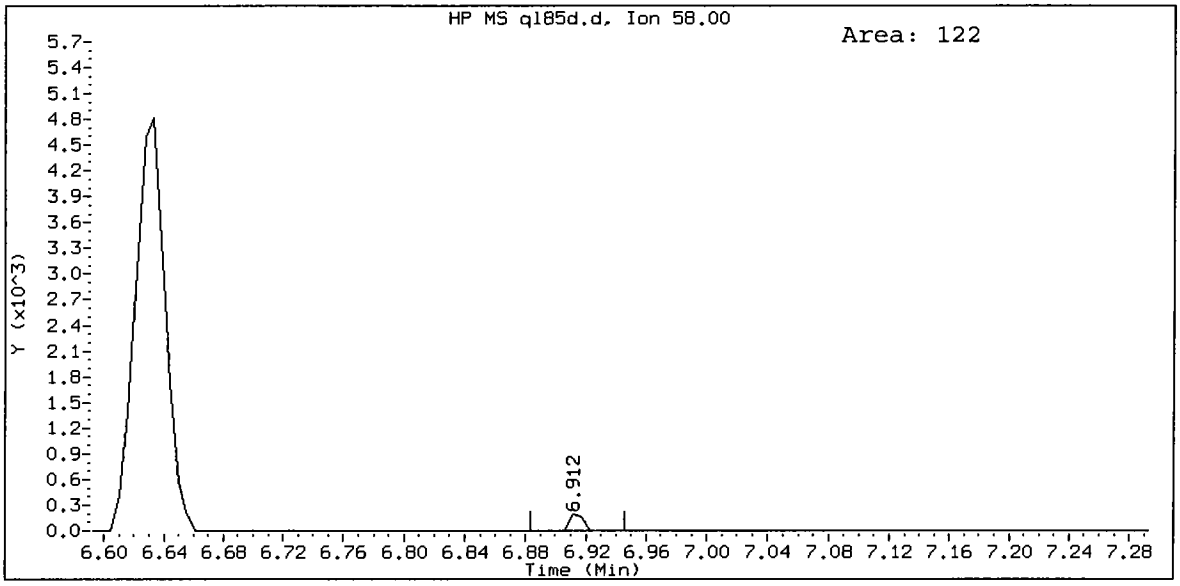
Instrument: nt10.i

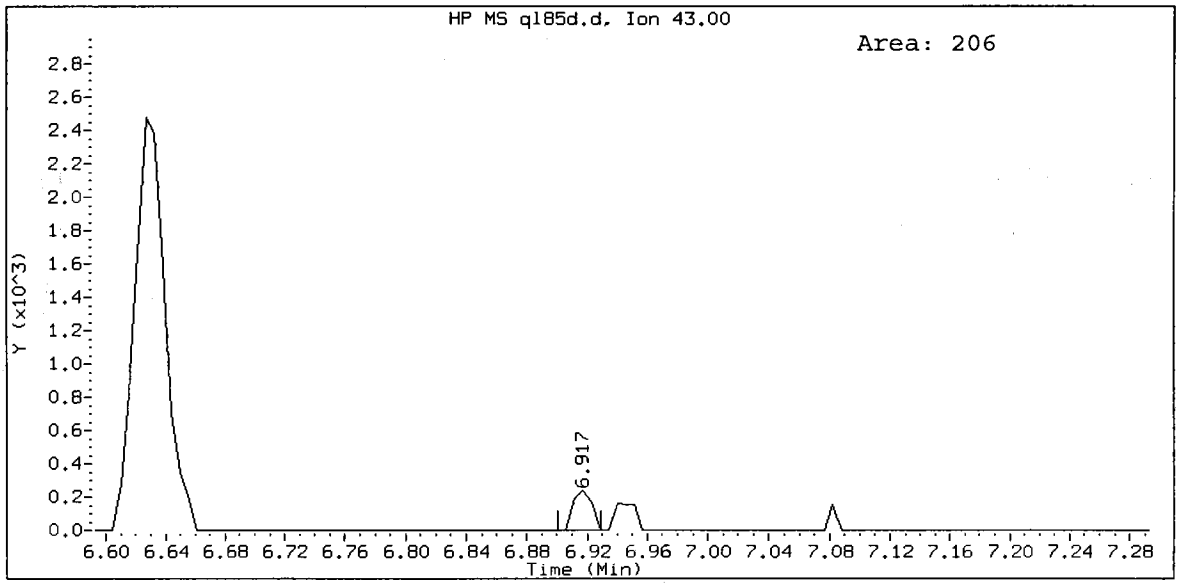
Operator: ar
Column diameter: 0.18

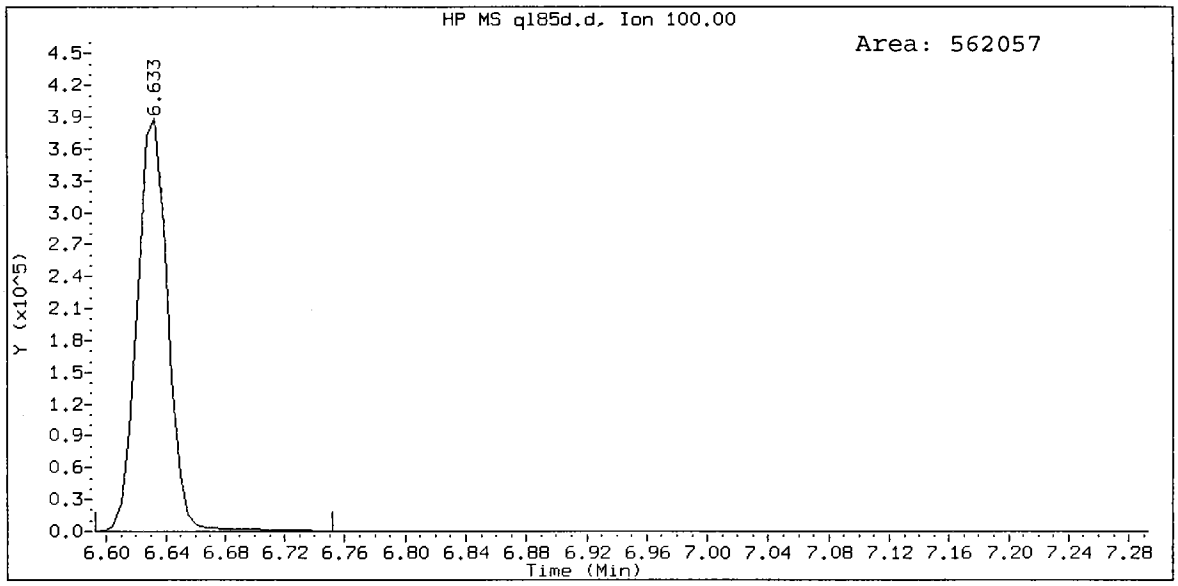
Column phase: RTX502.2



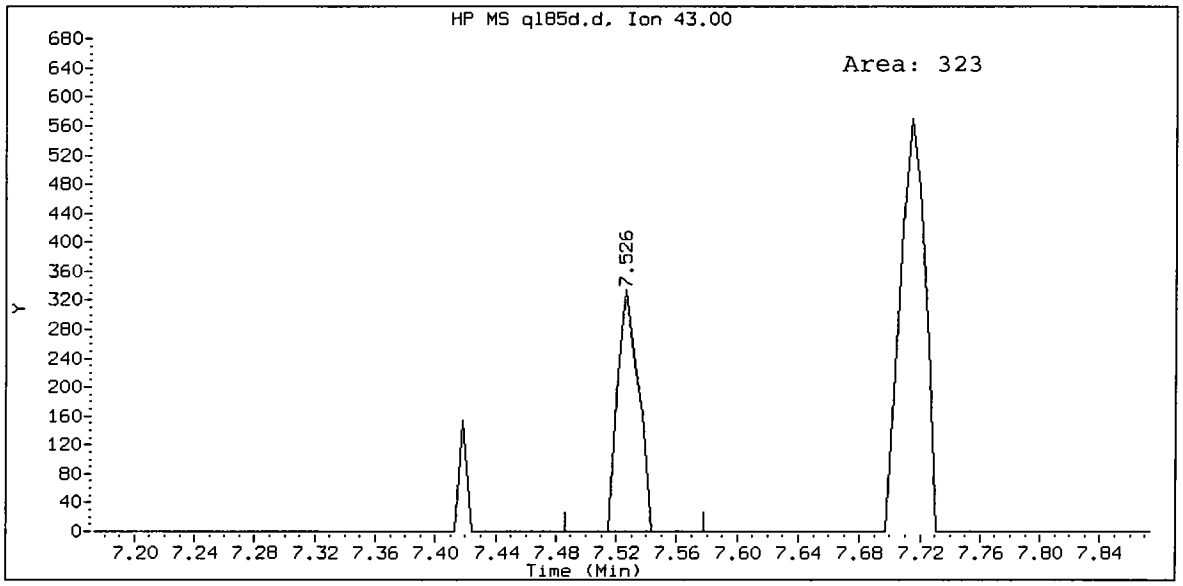
QL85D, /chem1/nt10.i/03MAR10.b/ql85d.d
4-Methyl-2-Pentanone Amount: 0.03

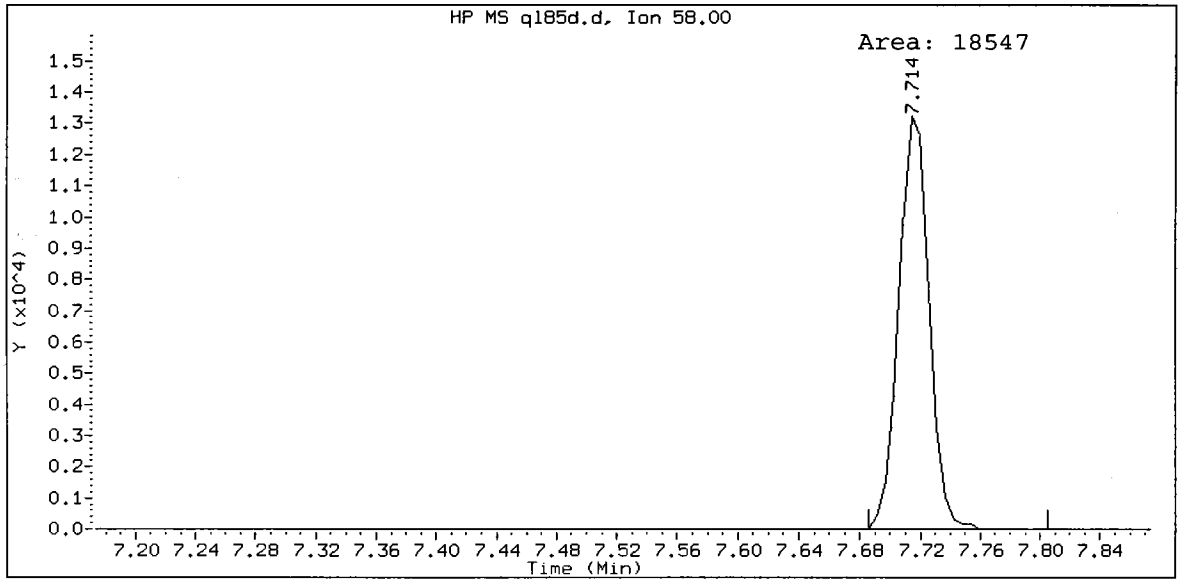


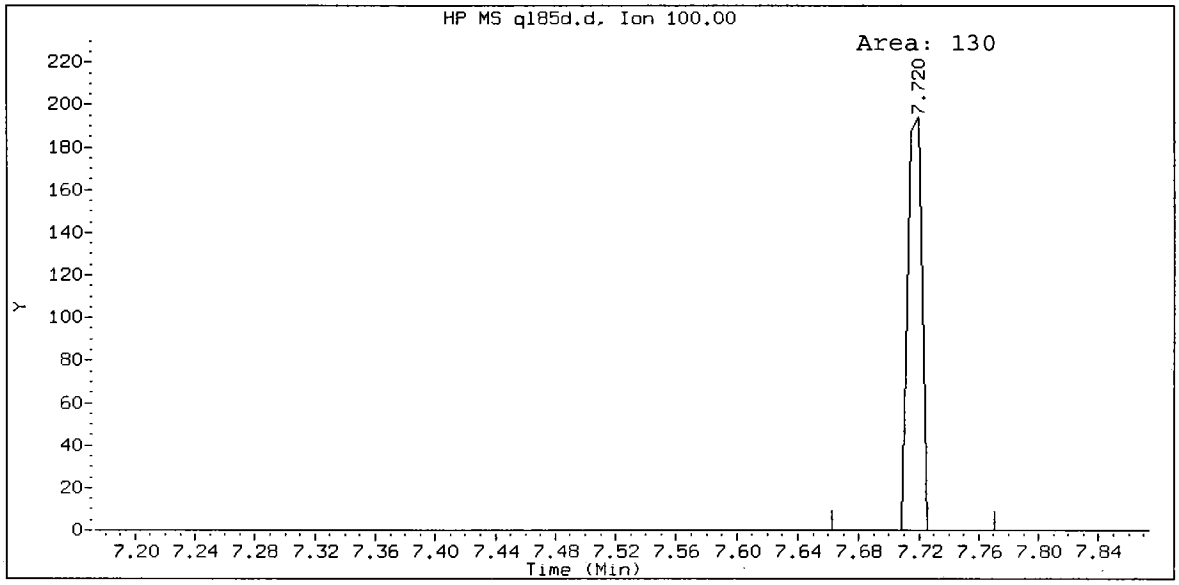




QL85D, /chem1/nt10.i/03MAR10.b/ql85d.d
2-Hexanone Amount: 0.06







ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: TB022610**
Page 1 of 1 **Trip Blank**

Lab Sample ID: QL85E
LIMS ID: 10-4947
Matrix: Water
Data Release Authorized:
Reported: 03/11/10

QC Report No: QL85-Floyd-Snider
Project: Lora Lakes Apartments
POS-LLA
Date Sampled: 02/26/10
Date Received: 02/26/10

Instrument/Analyst: NT10/AAR
Date Analyzed: 03/03/10 14:47

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.2	< 0.2	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	102%

Analytical Resources, Inc.

AR 3/4/2010

8260C

Data file : /chem1/nt10.i/03MAR10.b/ql85e.d
Lab Smp Id: QL85E Client Smp ID: TB022610
Inj Date : 03-MAR-2010 14:47
Operator : ar Inst ID: nt10.i
Smp Info : QL85E,10,10,0,TB
Misc Info : 10-4947
Comment :
Method : /chem1/nt10.i/03MAR10.b/82600122L.m
Meth Date : 04-Mar-2010 11:32 aron Quant Type: ISTD
Cal Date : 22-FEB-2010 15:12 Cal File: 6000222.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: voa.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	10.00000	Purge Volume (mL)
Sa	10.00000	Sample Amount (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
1 Dichlorodifluoromethane	85	Compound Not Detected.					
2 Chloromethane	50	Compound Not Detected.					
3 Vinyl Chloride	62	Compound Not Detected.					
4 Bromomethane	94	1.903	1.892	(0.361)	4787	0.26951	0.2695(M)
5 Chloroethane	64	Compound Not Detected.					
6 Trichlorofluoromethane	101	Compound Not Detected.					
8 Acrolein	56	Compound Not Detected.					
9 112Trichloro122Trifluoroethane	101	Compound Not Detected.					
10 Acetone	43	3.326	3.337	(0.631)	1686	0.79260	0.7926(QM)
11 1,1-Dichloroethene	96	Compound Not Detected.					
12 Bromoethane	108	Compound Not Detected.					
13 Iodomethane	142	Compound Not Detected.					
14 Methylene Chloride	84	Compound Not Detected.					
15 Acrylonitrile	53	Compound Not Detected.					
16 Methyl tert butyl ether	73	Compound Not Detected.					
17 Carbon Disulfide	76	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
	18 Trans-1,2-Dichloroethene	96	Compound Not Detected.					
	20 Vinyl Acetate	43	Compound Not Detected.					
	21 1,1-Dichloroethane	63	Compound Not Detected.					
	22 2-Butanone	72	Compound Not Detected.					
	23 2,2-Dichloropropane	77	Compound Not Detected.					
	24 Cis-1,2-Dichloroethene	96	Compound Not Detected.					
*	25 Pentafluorobenzene	168	5.272	5.272	(1.000)	461699	10.0000	
	26 Chloroform	83	Compound Not Detected.					
	27 Bromochloromethane	128	Compound Not Detected.					
$	28 Dibromofluoromethane	111	4.885	4.885	(0.927)	192917	10.0189	10.019
	29 1,1,1-Trichloroethane	97	Compound Not Detected.					
	30 1,1-Dichloropropene	75	Compound Not Detected.					
	31 Carbon Tetrachloride	117	Compound Not Detected.					
$	32 d4-1,2-Dichloroethane	65	5.289	5.290	(1.003)	171967	10.1556	10.156
	33 1,2-Dichloroethane	62	Compound Not Detected.					
	34 Benzene	78	Compound Not Detected.					
*	35 1,4-Difluorobenzene	114	5.659	5.659	(1.000)	739542	10.0000	
	36 Trichloroethene	95	Compound Not Detected.					
	37 1,2-Dichloropropane	63	Compound Not Detected.					
	38 Bromodichloromethane	83	Compound Not Detected.					
	39 Dibromomethane	93	Compound Not Detected.					
	40 2-Chloroethyl Vinyl Ether	63	Compound Not Detected.					
	41 4-Methyl-2-Pentanone	58	Compound Not Detected.					
	42 Cis 1,3-dichloropropene	75	Compound Not Detected.					
$	43 d8-Toluene	98	6.633	6.633	(1.172)	922485	10.2370	10.237
	44 Toluene	92	Compound Not Detected.					
	45 Trans 1,3-Dichloropropene	75	Compound Not Detected.					
	47 1,1,2-Trichloroethane	97	Compound Not Detected.					
	48 1,3-Dichloropropane	76	Compound Not Detected.					
	49 Tetrachloroethene	166	Compound Not Detected.					
	50 Chlorodibromomethane	129	Compound Not Detected.					
	51 1,2-Dibromoethane	107	Compound Not Detected.					
*	52 d5-Chlorobenzene	117	7.714	7.720	(1.000)	641178	10.0000	
	53 Chlorobenzene	112	Compound Not Detected.					
	54 Ethyl Benzene	91	Compound Not Detected.					
	55 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
	56 m,p-xylene	106	Compound Not Detected.					
	58 o-Xylene	106	Compound Not Detected.					
	59 Styrene	104	Compound Not Detected.					
	60 Isopropyl Benzene	105	Compound Not Detected.					
	61 Bromoform	173	Compound Not Detected.					
	62 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
$	63 4-Bromofluorobenzene	95	8.585	8.585	(1.113)	269962	10.3784	10.378
	64 1,2,3-Trichloropropane	110	Compound Not Detected.					
	65 Trans-1,4-Dichloro 2-Butene	53	Compound Not Detected.					
	66 N-Propyl Benzene	91	Compound Not Detected.					
	67 Bromobenzene	156	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
68	1,3,5-Trimethyl Benzene	105	Compound Not Detected.					
69	2-Chloro Toluene	91	Compound Not Detected.					
70	4-Chloro Toluene	91	Compound Not Detected.					
71	T-Butyl Benzene	119	Compound Not Detected.					
72	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
73	S-Butyl Benzene	105	Compound Not Detected.					
74	4-Isopropyl Toluene	119	Compound Not Detected.					
75	1,3-Dichlorobenzene	146	Compound Not Detected.					
* 76	d4-1,4-Dichlorobenzene	152	9.404	9.410	(1.000)	244471	10.0000	
77	1,4-Dichlorobenzene	146	Compound Not Detected.					
78	N-Butyl Benzene	91	Compound Not Detected.					
$ 79	d4-1,2-Dichlorobenzene	152	9.729	9.734	(1.034)	197376	10.3816	10.382
80	1,2-Dichlorobenzene	146	Compound Not Detected.					
81	1,2-Dibromo 3-Chloropropane	75	Compound Not Detected.					
82	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
83	Hexachloro 1,3-Butadiene	225	Compound Not Detected.					
84	Naphthalene	128	Compound Not Detected.					
85	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: ql85e.d
Lab Smp Id: QL85E
Analysis Type: VOA
Quant Type: ISTD
Operator: ar
Method File: /chem1/nt10.i/03MAR10.b/82600122L.m
Misc Info: 10-4947

Calibration Date: 03-MAR-2010
Calibration Time: 12:36
Client Smp ID: TB022610
Level: LOW
Sample Type: Water

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
25 Pentafluorobenzen	456228	228114	912456	461699	1.20
35 1,4-Difluorobenze	740651	370326	1481302	739542	-0.15
52 d5-Chlorobenzene	686240	343120	1372480	641178	-6.57
76 d4-1,4-Dichlorobe	249963	124982	499926	244471	-2.20

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
25 Pentafluorobenzen	5.27	4.77	5.77	5.27	0.00
35 1,4-Difluorobenze	5.66	5.16	6.16	5.66	0.00
52 d5-Chlorobenzene	7.72	7.22	8.22	7.71	-0.07
76 d4-1,4-Dichlorobe	9.40	8.90	9.90	9.40	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Floyd-Snider
Sample Matrix: LIQUID
Lab Smp Id: QL85E
Level: LOW
Data Type: MS DATA
SpikeList File: allspike.spk
Sublist File: voa.sub
Method File: /chem1/nt10.i/03MAR10.b/82600122L.m
Misc Info: 10-4947

Client SDG: QL85
Fraction: VOA
Client Smp ID: TB022610
Operator: ar
SampleType: SAMPLE
Quant Type: ISTD

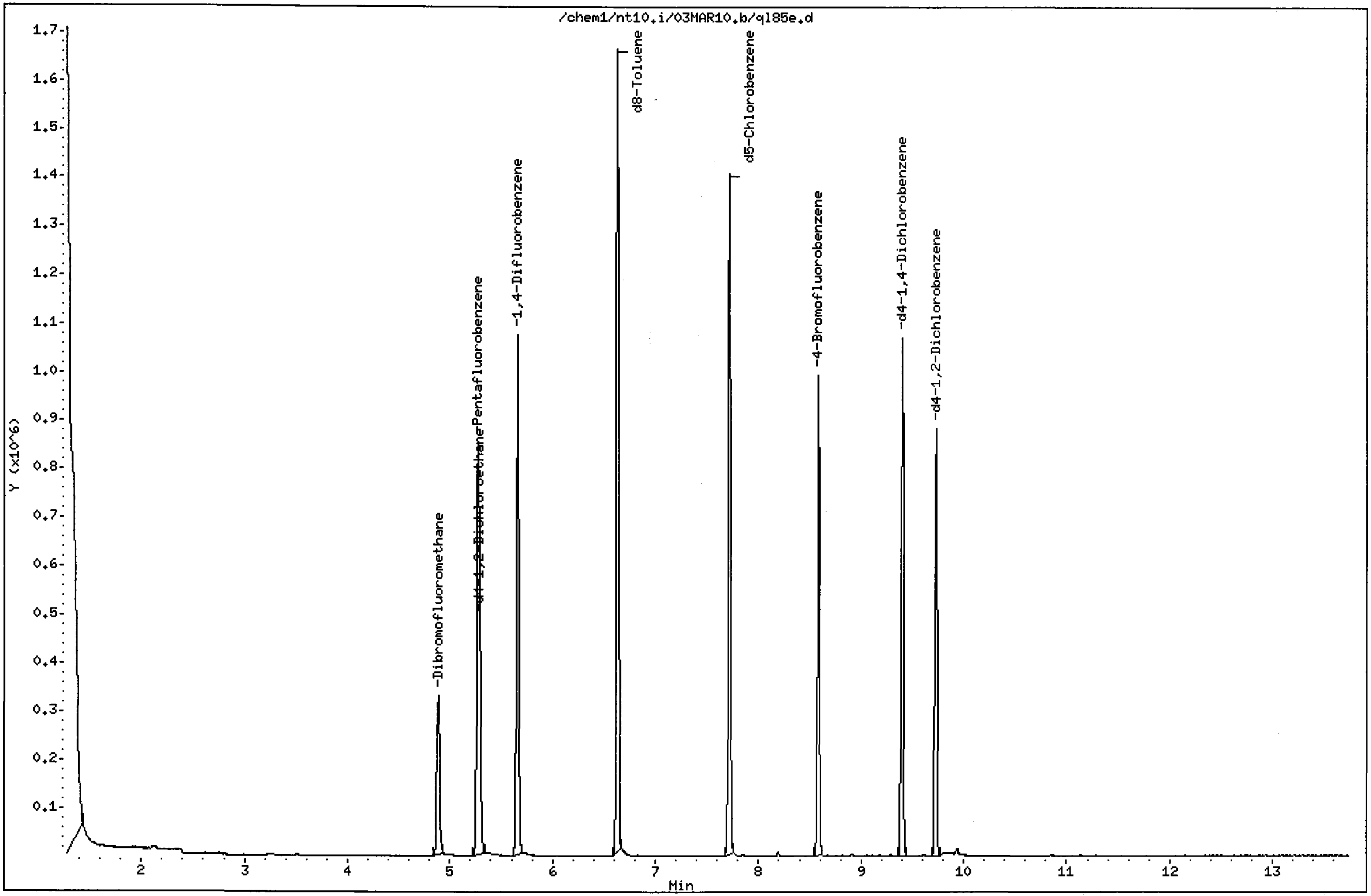
SURROGATE COMPOUND	AMOUNT ADDED ug/L	AMOUNT RECOVERED ug/L	% RECOVERED	LIMITS
$ 28 Dibromofluorometha	10.000	10.019	100.19	60-130
$ 32 d4-1,2-Dichloroeth	10.000	10.156	101.56	80-143
$ 43 d8-Toluene	10.000	10.237	102.37	80-120
$ 63 4-Bromofluorobenze	10.000	10.378	103.78	80-120
$ 79 d4-1,2-Dichloroben	10.000	10.382	103.82	80-120

Data File: /chem1/nt10.i/03MAR10.b/ql85e.d
Date : 03-MAR-2010 14:47
Client ID: TB022610
Sample Info: QL85E,10,10,0,TB

Column phase: RTX502.2

Instrument: nt10.i

Operator: ar
Column diameter: 0.18



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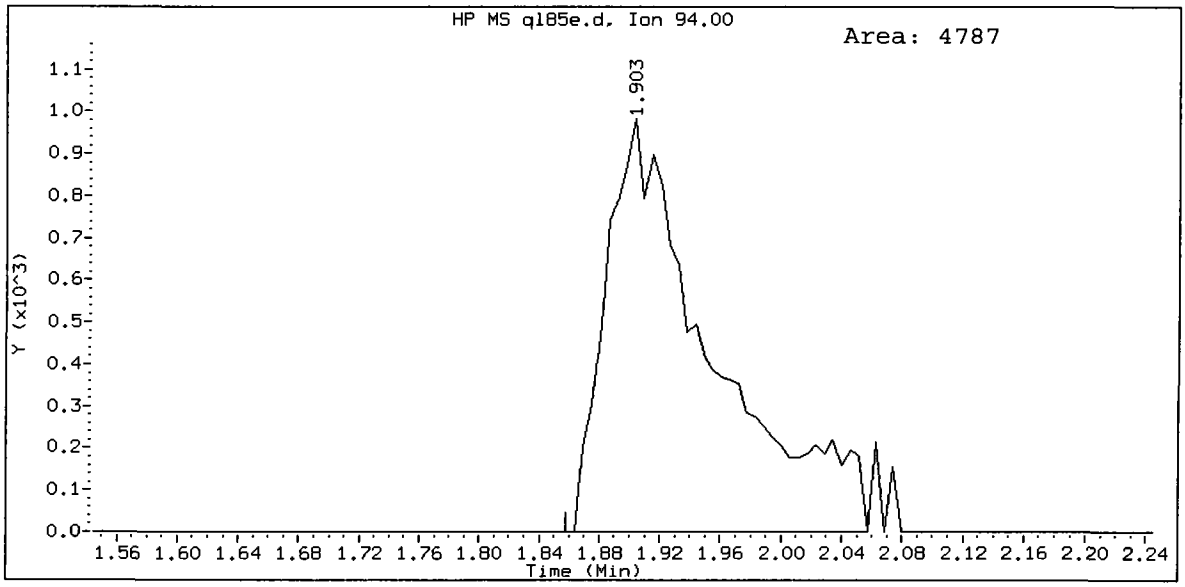
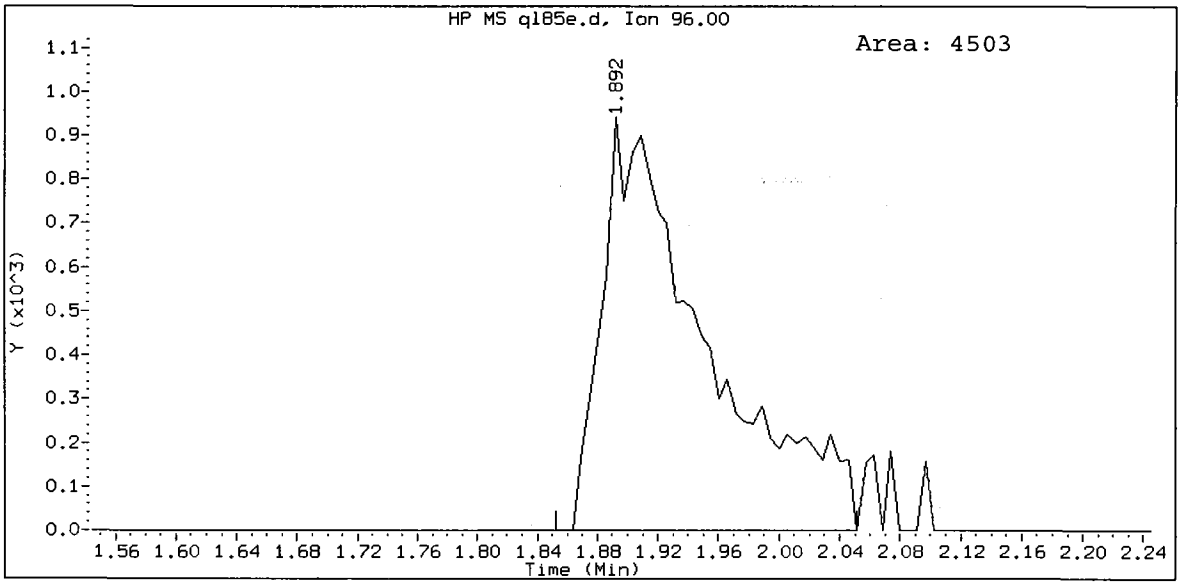
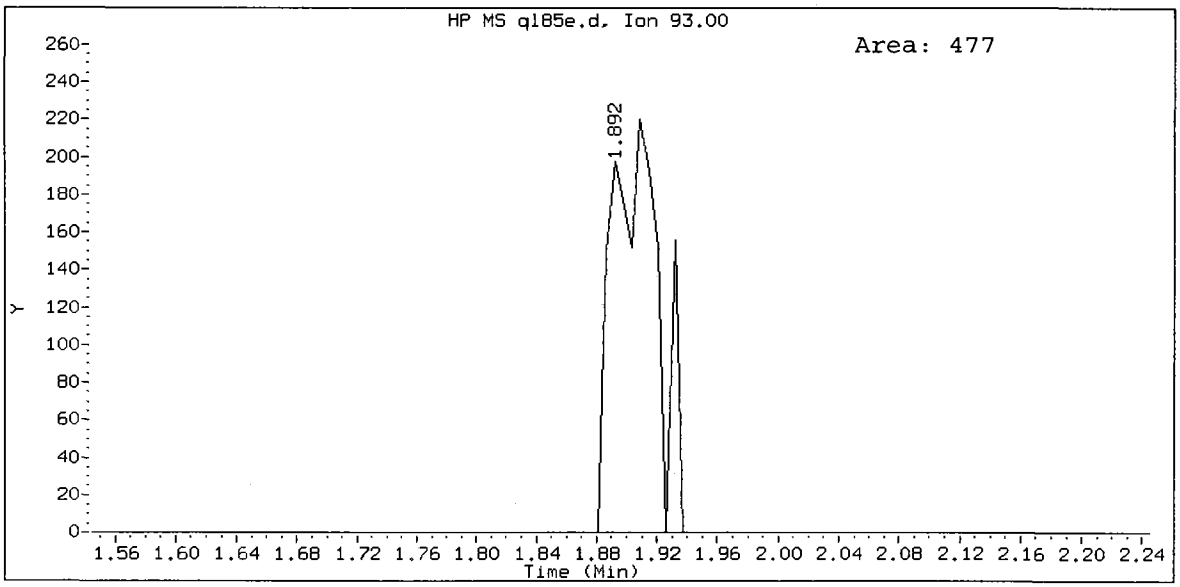
Bromomethane Amount: 0.27







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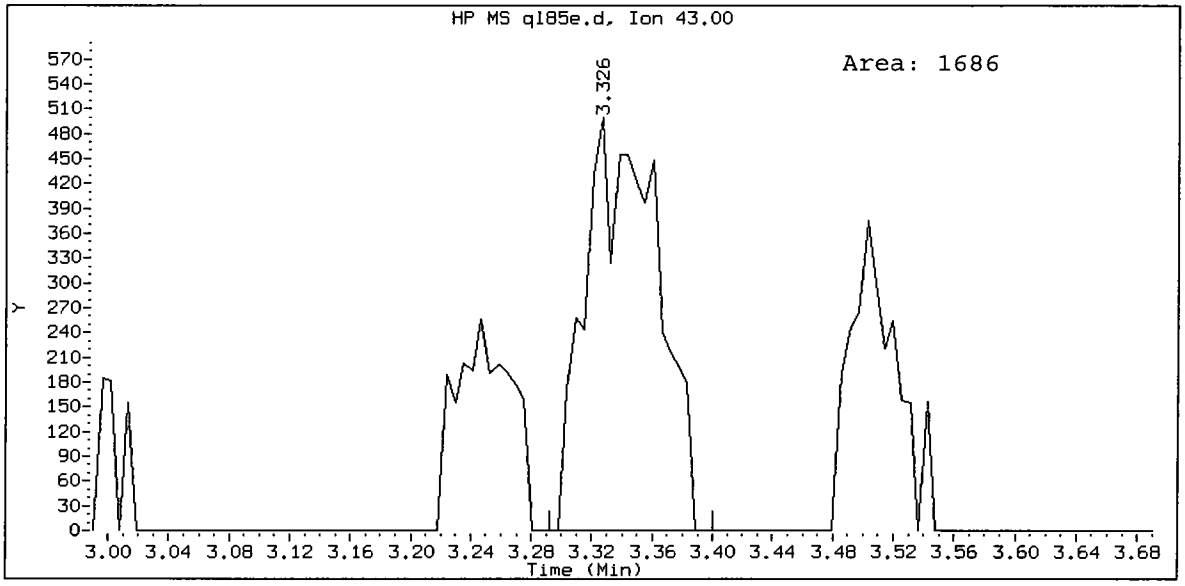
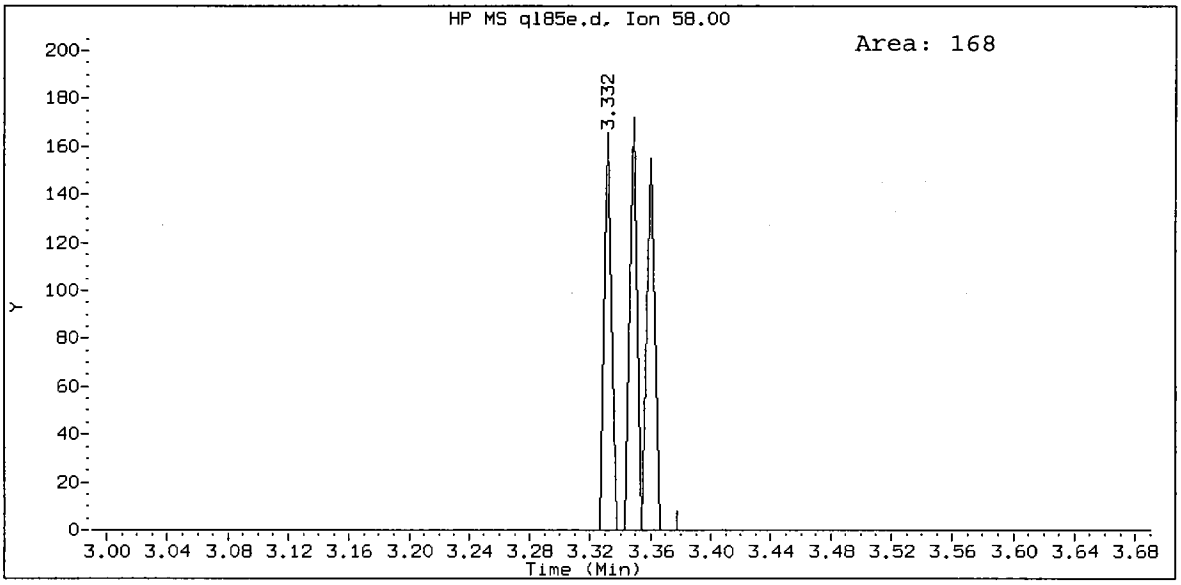
Acetone Amount: 0.79





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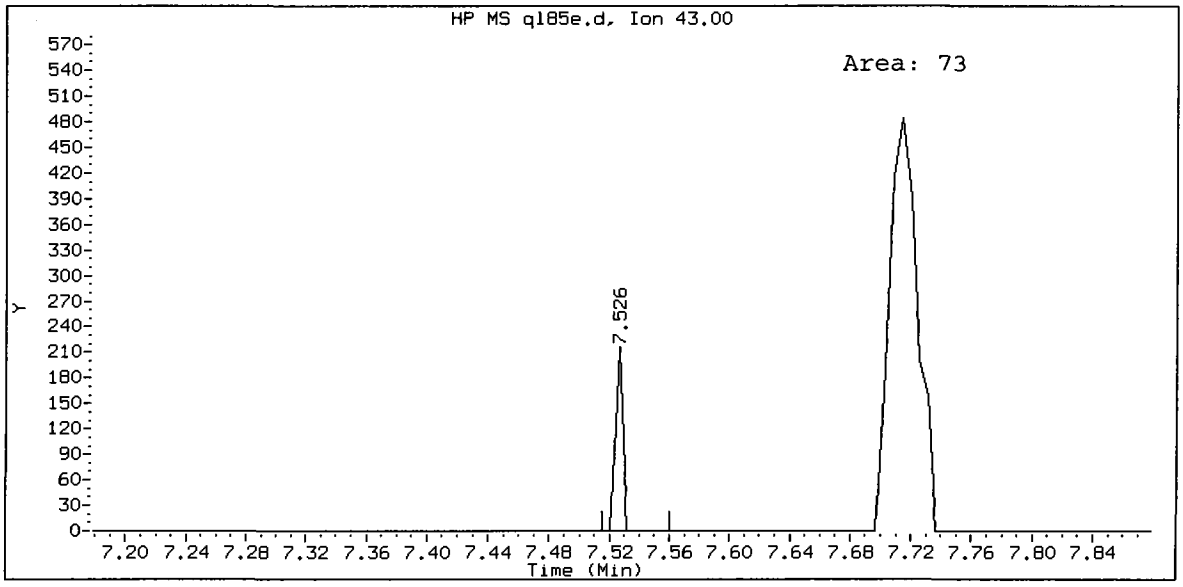
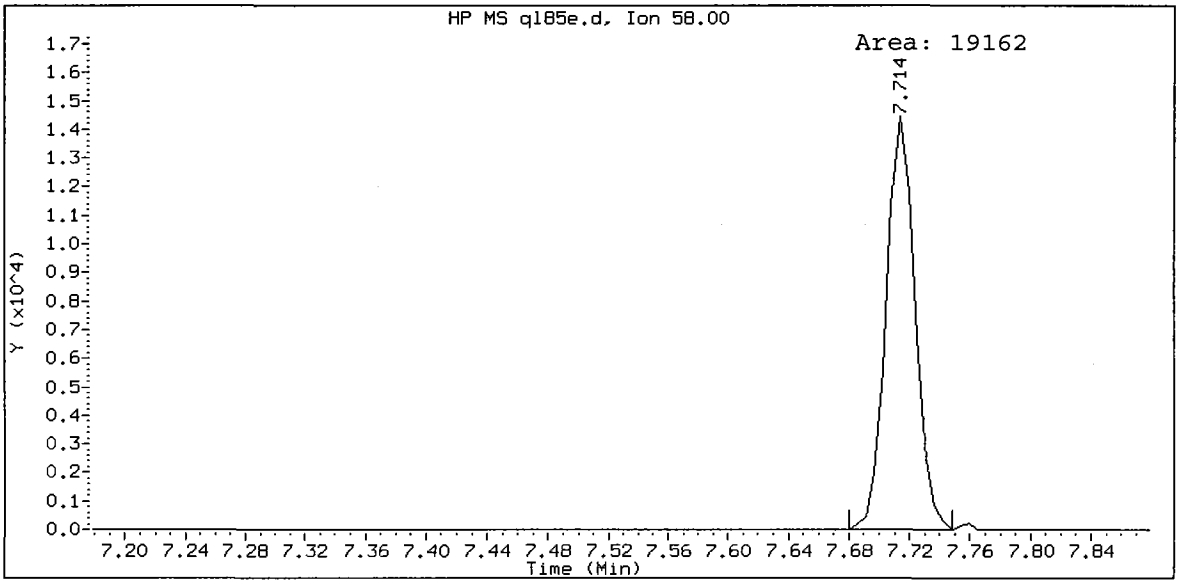
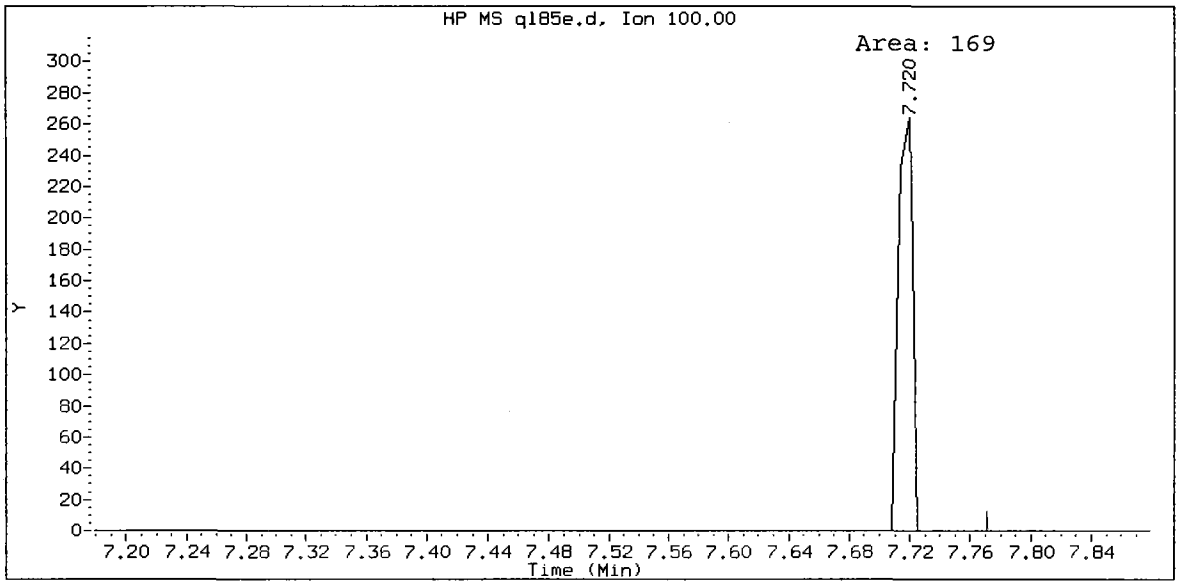
2-Hexanone Amount: 0.01







Volatile Analysis
Standard Raw Data

prepared
for

Floyd-Snider

Project: Lora Lakes Apartments, POS-LLA

ARI JOB NO: QL85

prepared
by

Analytical Resources, Inc.

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD-SNIDER

ARI Job No: QL85 Project: LORA LAKES APARTMENTS

Instrument ID: NT10 Calibration Date: 02/22/10

LAB FILE ID: RF0.2: 0020222 RF0.5: 0050222 RF1: 0100222
RF4: 0400222 RF10: 1000222

COMPOUND	RF0.2	RF0.5	RF1	RF4	RF10
Chloromethane		0.486	0.407	0.350	0.342
Vinyl Chloride	0.468	0.481	0.415	0.470	0.431
Bromomethane			0.667	0.570	0.386
Chloroethane	0.334	0.379	0.325	0.395	0.325
Trichlorofluoromethane	0.607	0.656	0.587	0.662	0.615
Acrolein		0.030	0.027	0.030	0.026
112Trichloro122Trifluoroetha	0.423	0.450	0.381	0.451	0.406
Acetone		0.056	0.048	0.048	0.041
1,1-Dichloroethene	0.505	0.530	0.453	0.526	0.478
Bromoethane	0.320	0.326	0.290	0.312	0.292
Iodomethane		0.858	0.739	0.721	0.588
Methylene Chloride	0.407	0.427	0.390	0.441	0.404
Acrylonitrile		0.053	0.054	0.063	0.057
Carbon Disulfide	1.613	1.726	1.392	1.711	1.594
Trans-1,2-Dichloroethene	0.528	0.527	0.491	0.545	0.510
Vinyl Acetate	0.467	0.427	0.455	0.477	0.468
1,1-Dichloroethane	0.841	0.836	0.787	0.889	0.856
2-Butanone	0.028	0.029	0.027	0.030	0.030
2,2-Dichloropropane	0.364	0.341	0.325	0.352	0.332
Cis-1,2-Dichloroethene	0.721	0.577	0.550	0.570	0.554
Chloroform	0.881	0.889	0.884	0.949	0.911
Bromochloromethane	0.184	0.199	0.187	0.209	0.197
1,1,1-Trichloroethane	0.692	0.715	0.672	0.750	0.702
1,1-Dichloropropene	0.499	0.489	0.483	0.499	0.495
Carbon Tetrachloride	0.357	0.355	0.352	0.378	0.356
1,2-Dichloroethane	0.310	0.295	0.302	0.313	0.300
Benzene	1.453	1.359	1.372	1.432	1.402
Trichloroethene	0.346	0.343	0.352	0.377	0.405
1,2-Dichloropropane	0.300	0.296	0.292	0.312	0.304
Bromodichloromethane	0.372	0.361	0.362	0.396	0.390
Dibromomethane	0.112	0.114	0.116	0.131	0.123
2-Chloroethyl Vinyl Ether		0.064	0.071	0.073	0.074
4-Methyl-2-Pentanone	0.050	0.050	0.047	0.056	0.052
Cis 1,3-dichloropropene	0.380	0.386	0.391	0.436	0.441
Toluene	0.957	0.937	0.913	0.977	0.948
Trans 1,3-Dichloropropene	0.266	0.267	0.270	0.314	0.329
2-Hexanone	0.093	0.083	0.080	0.092	0.086

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD-SNIDER

ARI Job No: QL85 Project: LORA LAKES APARTMENTS

Instrument ID: NT10 Calibration Date: 02/22/10

LAB FILE ID: RF0.2: 0020222 RF0.5: 0050222 RF1: 0100222
RF4: 0400222 RF10: 1000222

COMPOUND	RF0.2	RF0.5	RF1	RF4	RF10
1,1,2-Trichloroethane	0.184	0.180	0.177	0.194	0.188
1,3-Dichloropropane	0.366	0.349	0.350	0.372	0.365
Tetrachloroethene	0.471	0.428	0.421	0.432	0.430
Chlorodibromomethane	0.237	0.227	0.224	0.246	0.245
1,2-Dibromoethane	0.149	0.153	0.152	0.176	0.171
Chlorobenzene	1.101	1.026	1.009	1.073	1.048
Ethyl Benzene	2.120	2.005	1.967	2.091	2.027
1,1,1,2-Tetrachloroethane	0.322	0.323	0.313	0.337	0.322
m,p-xylene	0.769	0.739	0.724	0.779	0.752
o-Xylene	0.718	0.666	0.657	0.721	0.684
Styrene	1.082	1.042	1.013	1.139	1.098
Bromoform	0.300	0.257	0.278	0.287	0.299
1,1,2,2-Tetrachloroethane	0.500	0.443	0.457	0.452	0.432
1,2,3-Trichloropropane	0.136	0.130	0.136	0.139	0.134
Trans-1,4-Dichloro 2-Butene			0.056	0.068	0.076
N-Propyl Benzene	6.478	5.686	6.046	5.820	5.799
Bromobenzene	1.056	0.918	1.009	0.946	0.973
Isopropyl Benzene	5.531	5.046	5.301	4.995	5.001
2-Chloro Toluene	4.129	3.630	3.819	3.656	3.628
4-Chloro Toluene	3.540	3.099	3.225	3.164	3.185
T-Butyl Benzene	3.802	3.351	3.403	3.337	3.146
1,3,5-Trimethyl Benzene	4.184	3.856	3.958	3.944	3.798
1,2,4-Trimethylbenzene	4.040	3.683	3.732	3.804	3.653
S-Butyl Benzene	5.588	5.016	4.940	5.037	4.701
4-Isopropyl Toluene	4.223	3.818	3.707	3.924	3.631
1,3-Dichlorobenzene	1.904	1.666	1.631	1.726	1.671
1,4-Dichlorobenzene	1.836	1.620	1.564	1.633	1.579
N-Butyl Benzene	3.743	3.144	3.085	3.392	3.096
1,2-Dichlorobenzene	1.502	1.293	1.276	1.294	1.215
1,2-Dibromo 3-Chloropropane	0.028	0.032	0.042	0.043	0.041
1,2,4-Trichlorobenzene	0.823	0.550	0.598	0.590	0.580
Hexachloro 1,3-Butadiene		0.425	0.434	0.394	0.347
Naphthalene		0.880	0.932	0.870	0.804
1,2,3-Trichlorobenzene		0.433	0.482	0.442	0.415
Dichlorodifluoromethane	0.253	0.286	0.219	0.261	0.276
Methyl tert butyl ether	0.766	0.770	0.719	0.758	0.727

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD-SNIDER

ARI Job No: QL85 Project: LORA LAKES APARTMENTS

Instrument ID: NT10 Calibration Date: 02/22/10

LAB FILE ID: RF0.2: 0020222 RF0.5: 0050222 RF1: 0100222
RF4: 0400222 RF10: 1000222

COMPOUND	RF0.2	RF0.5	RF1	RF4	RF10
d4-1,2-Dichloroethane	0.358	0.363	0.360	0.379	0.381
d8-Toluene	1.210	1.227	1.225	1.227	1.206
4-Bromofluorobenzene	0.418	0.423	0.401	0.435	0.419
d4-1,2-Dichlorobenzene	0.794	0.807	0.789	0.788	0.761
Dibromofluoromethane	0.404	0.410	0.409	0.424	0.420

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD-SNIDER

ARI Job No: QL85 Project: LORA LAKES APARTMENTS

Instrument ID: NT10 Calibration Date: 02/22/10

LAB FILE ID: RF20: 2000222 RF40: 4000222A RF60: 6000222

COMPOUND	RF20	RF40	RF60
Chloromethane	0.337	0.370	0.332
Vinyl Chloride	0.434	0.442	0.427
Bromomethane	0.373	0.391	0.382
Chloroethane	0.332	0.377	0.335
Trichlorofluoromethane	0.603	0.661	0.624
Acrolein	0.027	0.029	0.030
112Trichloro122Trifluoroetha	0.397	0.440	0.399
Acetone	0.041	0.044	0.044
1,1-Dichloroethene	0.456	0.550	0.483
Bromoethane	0.288	0.304	0.297
Iodomethane	0.593	0.646	0.561
Methylene Chloride	0.387	0.445	0.416
Acrylonitrile	0.057	0.062	0.064
Carbon Disulfide	1.545	1.792	1.664
Trans-1,2-Dichloroethene	0.504	0.554	0.524
Vinyl Acetate	0.469	0.458	0.481
1,1-Dichloroethane	0.837	0.886	0.884
2-Butanone	0.030	0.030	0.032
2,2-Dichloropropane	0.345	0.318	0.334
Cis-1,2-Dichloroethene	0.542	0.589	0.564
Chloroform	0.885	0.950	0.910
Bromochloromethane	0.196	0.203	0.209
1,1,1-Trichloroethane	0.690	0.706	0.722
1,1-Dichloropropene	0.492	0.511	0.504
Carbon Tetrachloride	0.359	0.372	0.376
1,2-Dichloroethane	0.292	0.299	0.300
Benzene	1.368	1.435	1.398
Trichloroethene	0.388	0.398	0.397
1,2-Dichloropropane	0.300	0.314	0.311
Bromodichloromethane	0.388	0.396	0.406
Dibromomethane	0.121	0.125	0.129
2-Chloroethyl Vinyl Ether	0.074	0.074	0.075
4-Methyl-2-Pentanone	0.053	0.058	0.062
Cis 1,3-dichloropropene	0.448	0.460	0.476
Toluene	0.938	0.998	0.985
Trans 1,3-Dichloropropene	0.338	0.357	0.373
2-Hexanone	0.085	0.089	0.090

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD-SNIDER

ARI Job No: QL85 Project: LORA LAKES APARTMENTS

Instrument ID: NT10 Calibration Date: 02/22/10

LAB FILE ID: RF20: 2000222 RF40: 4000222A RF60: 6000222

COMPOUND	RF20	RF40	RF60
1,1,2-Trichloroethane	0.183	0.190	0.194
1,3-Dichloropropane	0.356	0.354	0.355
Tetrachloroethene	0.422	0.441	0.432
Chlorodibromomethane	0.243	0.249	0.250
1,2-Dibromoethane	0.169	0.175	0.180
Chlorobenzene	1.026	1.078	1.046
Ethyl Benzene	1.894	1.996	1.853
1,1,1,2-Tetrachloroethane	0.309	0.330	0.316
m,p-xylene	0.736	0.782	0.729
o-Xylene	0.657	0.696	0.650
Styrene	1.060	1.104	1.037
Bromoform	0.318	0.358	0.376
1,1,2,2-Tetrachloroethane	0.423	0.458	0.461
1,2,3-Trichloropropane	0.135	0.144	0.142
Trans-1,4-Dichloro 2-Butene	0.086	0.102	0.110
N-Propyl Benzene	5.936	6.502	5.954
Bromobenzene	0.997	1.098	1.088
Isopropyl Benzene	5.119	5.830	5.407
2-Chloro Toluene	3.644	4.018	3.763
4-Chloro Toluene	3.231	3.494	3.297
T-Butyl Benzene	3.088	3.324	2.915
1,3,5-Trimethyl Benzene	3.785	4.072	3.601
1,2,4-Trimethylbenzene	3.545	3.725	3.340
S-Butyl Benzene	4.539	4.754	4.188
4-Isopropyl Toluene	3.479	3.565	3.209
1,3-Dichlorobenzene	1.628	1.701	1.636
1,4-Dichlorobenzene	1.539	1.608	1.562
N-Butyl Benzene	2.930	2.996	2.873
1,2-Dichlorobenzene	1.170	1.223	1.230
1,2-Dibromo 3-Chloropropane	0.042	0.046	0.049
1,2,4-Trichlorobenzene	0.571	0.616	0.644
Hexachloro 1,3-Butadiene	0.324	0.331	0.334
Naphthalene	0.775	0.811	0.842
1,2,3-Trichlorobenzene	0.381	0.392	0.405
Dichlorodifluoromethane	0.266	0.217	0.229
Methyl tert butyl ether	0.711	0.719	0.683

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD-SNIDER

ARI Job No: QL85 Project: LORA LAKES APARTMENTS

Instrument ID: NT10 Calibration Date: 02/22/10

LAB FILE ID: RF20: 2000222 RF40: 4000222A RF60: 6000222

COMPOUND	RF20	RF40	RF60
d4-1,2-Dichloroethane	0.368	0.358	0.366
d8-Toluene	1.216	1.223	1.215
4-Bromofluorobenzene	0.400	0.388	0.361
d4-1,2-Dichlorobenzene	0.747	0.756	0.780
Dibromofluoromethane	0.424	0.419	0.427

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD-SNIDER

ARI Job No: QL85 Project: LORA LAKES APARTMENTS

Instrument ID: NT10 Calibration Date: 02/22/10

COMPOUND	CURVE TYPE	AVE RF	%RSD OR R^2
Chloromethane	AVRG	0.375	14.8
Vinyl Chloride	AVRG	0.446	5.3
Bromomethane	LINR		0.9981
Chloroethane	AVRG	0.350	8.1
Trichlorofluoromethane	AVRG	0.627	4.6
Acrolein	AVRG	0.029	6.2
112Trichloro122Trifluoroetha	AVRG	0.418	6.4
Acetone	AVRG	0.046	11.0
1,1-Dichloroethene	AVRG	0.498	7.2
Bromoethane	AVRG	0.304	4.7
Iodomethane	AVRG	0.672	15.8
Methylene Chloride	AVRG	0.414	5.2
Acrylonitrile	AVRG	0.059	7.5
Carbon Disulfide	AVRG	1.630	7.6
Trans-1,2-Dichloroethene	AVRG	0.523	4.0
Vinyl Acetate	AVRG	0.463	3.6
1,1-Dichloroethane	AVRG	0.852	4.1
2-Butanone	AVRG	0.030	5.0
2,2-Dichloropropane	AVRG	0.339	4.4
Cis-1,2-Dichloroethene	AVRG	0.583	9.9
Chloroform	AVRG	0.908	3.1
Bromochloromethane	AVRG	0.198	4.6
1,1,1-Trichloroethane	AVRG	0.706	3.3
1,1-Dichloropropene	AVRG	0.496	1.8
Carbon Tetrachloride	AVRG	0.363	2.9
1,2-Dichloroethane	AVRG	0.302	2.3
Benzene	AVRG	1.402	2.5
Trichloroethene	AVRG	0.376	6.7
1,2-Dichloropropane	AVRG	0.304	2.6
Bromodichloromethane	AVRG	0.384	4.4
Dibromomethane	AVRG	0.121	5.6
2-Chloroethyl Vinyl Ether	AVRG	0.072	4.9
4-Methyl-2-Pentanone	AVRG	0.054	8.9
Cis 1,3-dichloropropene	AVRG	0.427	8.6
Toluene	AVRG	0.957	3.0
Trans 1,3-Dichloropropene	AVRG	0.314	13.5
2-Hexanone	AVRG	0.087	5.3

<- Indicates value outside QC limits:
(%RSD < 20% or R^2 > 0.990)

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD-SNIDER

ARI Job No: QL85 Project: LORA LAKES APARTMENTS

Instrument ID: NT10 Calibration Date: 02/22/10

COMPOUND	CURVE TYPE	AVE RF	%RSD OR R^2
1,1,2-Trichloroethane	AVRG	0.186	3.4
1,3-Dichloropropane	AVRG	0.358	2.3
Tetrachloroethene	AVRG	0.435	3.7
Chlorodibromomethane	AVRG	0.240	4.1
1,2-Dibromoethane	AVRG	0.165	7.4
Chlorobenzene	AVRG	1.051	2.9
Ethyl Benzene	AVRG	1.994	4.5
1,1,1,2-Tetrachloroethane	AVRG	0.322	2.8
m,p-xylene	AVRG	0.752	3.0
o-Xylene	AVRG	0.681	4.1
Styrene	AVRG	1.072	3.9
Bromoform	AVRG	0.309	13.0
1,1,2,2-Tetrachloroethane	AVRG	0.453	5.1
1,2,3-Trichloropropane	AVRG	0.137	3.4
Trans-1,4-Dichloro 2-Butene	2ORDR		0.9989
N-Propyl Benzene	AVRG	6.028	5.1
Bromobenzene	AVRG	1.011	6.5
Isopropyl Benzene	AVRG	5.279	5.6
2-Chloro Toluene	AVRG	3.786	5.1
4-Chloro Toluene	AVRG	3.279	4.8
T-Butyl Benzene	AVRG	3.296	8.0
1,3,5-Trimethyl Benzene	AVRG	3.900	4.6
1,2,4-Trimethylbenzene	AVRG	3.690	5.4
S-Butyl Benzene	AVRG	4.845	8.5
4-Isopropyl Toluene	AVRG	3.694	8.2
1,3-Dichlorobenzene	AVRG	1.695	5.4
1,4-Dichlorobenzene	AVRG	1.618	5.8
N-Butyl Benzene	AVRG	3.157	9.0
1,2-Dichlorobenzene	AVRG	1.275	7.9
1,2-Dibromo 3-Chloropropane	AVRG	0.040	17.4
1,2,4-Trichlorobenzene	AVRG	0.622	13.9
Hexachloro 1,3-Butadiene	AVRG	0.370	12.6
Naphthalene	AVRG	0.845	6.3
1,2,3-Trichlorobenzene	AVRG	0.421	8.1
Dichlorodifluoromethane	AVRG	0.251	10.6
Methyl tert butyl ether	AVRG	0.732	4.2

<- Indicates value outside QC limits:
(%RSD < 20% or R^2 > 0.990)

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD-SNIDER

ARI Job No: QL85 Project: LORA LAKES APARTMENTS

Instrument ID: NT10 Calibration Date: 02/22/10

COMPOUND	CURVE TYPE	AVE RF	%RSD OR R^2
d4-1,2-Dichloroethane	AVRG	0.367	2.4
d8-Toluene	AVRG	1.218	0.6
4-Bromofluorobenzene	AVRG	0.406	5.8
d4-1,2-Dichlorobenzene	AVRG	0.778	2.7
Dibromofluoromethane	AVRG	0.417	2.0

<- Indicates value outside QC limits:
(%RSD < 20% or R^2 > 0.990)

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 22-FEB-2010 14:42
End Cal Date : 22-FEB-2010 18:41
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /chem1/nt10.i/22FEB10.b/82600122L.m
Cal Date : 23-Feb-2010 14:59 aron
Curve Type : Average

Calibration File Names:
Level 1: /chem1/nt10.i/22FEB10.b/0020222.d
Level 2: /chem1/nt10.i/22FEB10.b/0050222.d
Level 3: /chem1/nt10.i/22FEB10.b/0100222.d
Level 4: /chem1/nt10.i/22FEB10.b/0400222.d
Level 5: /chem1/nt10.i/22FEB10.b/1000222.d
Level 6: /chem1/nt10.i/22FEB10.b/2000222.d
Level 7: /chem1/nt10.i/22FEB10.b/4000222a.d
Level 8: /chem1/nt10.i/22FEB10.b/6000222.d

Compound	0.20000 Level 1	0.50000 Level 2	1.000 Level 3	4.000 Level 4	10.000 Level 5	20.000 Level 6	RRF	% RSD	
	40.000 Level 7	60.000 Level 8							
1 Dichlorodifluoromethane	0.25294	0.28658	0.21875	0.26125	0.27561	0.26586			
	0.21665	0.22883					0.25081	10.562	
2 Chloromethane	+++++	0.48652	0.40683	0.35031	0.34244	0.33717			
	0.37044	0.33248					0.37517	14.753	
3 Vinyl Chloride	0.46764	0.48122	0.41548	0.47031	0.43078	0.43418			
	0.44202	0.42683					0.44606	5.350	
4 Bromomethane	+++++	+++++	0.66712	0.56954	0.38566	0.37331			
	0.39073	0.38185					0.46137	27.216	<-
5 Chloroethane	0.33438	0.37875	0.32507	0.39547	0.32526	0.33163			
	0.37694	0.33478					0.35028	8.122	
6 Trichlorofluoromethane	0.60714	0.65610	0.58750	0.66229	0.61508	0.60334			
	0.66063	0.62382					0.62699	4.626	

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	40.000 Level 7	60.000 Level 8						
7 Allyl Chloride	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
8 Acrolein	+++++	0.03037	0.02730	0.03060	0.02630	0.02723		
	0.02942	0.03028					0.02879	6.222
9 112Trichloro122Trifluoroethan	0.42345	0.44968	0.38082	0.45142	0.40616	0.39716		
	0.43968	0.39874					0.41839	6.354
10 Acetone	+++++	0.05557	0.04813	0.04820	0.04113	0.04101		
	0.04422	0.04428					0.04608	11.052
11 1,1-Dichloroethene	0.50470	0.53018	0.45277	0.52587	0.47806	0.45623		
	0.54994	0.48342					0.49765	7.187
12 Bromoethane	0.32022	0.32577	0.29003	0.31212	0.29214	0.28849		
	0.30357	0.29734					0.30371	4.695
13 Iodomethane	+++++	0.85816	0.73944	0.72087	0.58843	0.59329		
	0.64658	0.56133					0.67258	15.789
14 Methylene Chloride	0.40681	0.42677	0.39028	0.44063	0.40359	0.38733		
	0.44475	0.41618					0.41454	5.201
15 Acrylonitrile	+++++	0.05293	0.05402	0.06293	0.05723	0.05748		
	0.06231	0.06386					0.05868	7.506

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Curve Type : Average

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	40.000 Level 7	60.000 Level 8						
16 Methyl tert butyl ether	0.76616	0.76991	0.71867	0.75818	0.72710	0.71123		
	0.71937	0.68325					0.73174	4.151
17 Carbon Disulfide	1.61297	1.72583	1.39225	1.71067	1.59361	1.54525		
	1.79174	1.66368					1.62950	7.634
18 Trans-1,2-Dichloroethene	0.52788	0.52743	0.49081	0.54509	0.50976	0.50441		
	0.55433	0.52357					0.52291	4.005
19 Methyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
20 Vinyl Acetate	0.46744	0.42668	0.45467	0.47702	0.46799	0.46881		
	0.45832	0.48090					0.46273	3.658
21 1,1-Dichloroethane	0.84077	0.83559	0.78661	0.88899	0.85637	0.83746		
	0.88600	0.88355					0.85192	4.071
22 2-Butanone	0.02818	0.02902	0.02737	0.03056	0.02976	0.02964		
	0.03047	0.03209					0.02964	4.978
23 2,2-Dichloropropane	0.36371	0.34108	0.32504	0.35243	0.33254	0.34486		
	0.31784	0.33431					0.33898	4.370
24 Cis-1,2-Dichloroethene	0.72098	0.57717	0.54986	0.56964	0.55382	0.54224		
	0.58940	0.56405					0.58340	9.881

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	40.000 Level 7	60.000 Level 8						
26 Chloroform	0.88149	0.88897	0.88386	0.94940	0.91106	0.88543		
	0.95016	0.91053					0.90761	3.134
27 Bromochloromethane	0.18428	0.19916	0.18727	0.20881	0.19682	0.19646		
	0.20335	0.20914					0.19816	4.584
29 1,1,1-Trichloroethane	0.69175	0.71531	0.67222	0.74956	0.70153	0.68961		
	0.70596	0.72182					0.70597	3.330
30 1,1-Dichloropropene	0.49940	0.48921	0.48303	0.49886	0.49475	0.49155		
	0.51133	0.50361					0.49647	1.780
31 Carbon Tetrachloride	0.35686	0.35518	0.35188	0.37773	0.35612	0.35940		
	0.37228	0.37623					0.36321	2.870
33 1,2-Dichloroethane	0.30982	0.29537	0.30188	0.31297	0.29975	0.29240		
	0.29949	0.30038					0.30151	2.276
34 Benzene	1.45273	1.35928	1.37257	1.43199	1.40249	1.36822		
	1.43532	1.39802					1.40257	2.474
36 Trichloroethene	0.34602	0.34284	0.35210	0.37728	0.40527	0.38766		
	0.39802	0.39734					0.37582	6.750
37 1,2-Dichloropropane	0.30010	0.29648	0.29192	0.31168	0.30427	0.30000		
	0.31380	0.31082					0.30363	2.594

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	40.000 Level 7	60.000 Level 8						
38 Bromodichloromethane	0.37206	0.36144	0.36157	0.39633	0.38972	0.38817		
	0.39643	0.40624					0.38400	4.409
39 Dibromomethane	0.11202	0.11427	0.11559	0.13082	0.12347	0.12129		
	0.12464	0.12862					0.12134	5.643
40 2-Chloroethyl Vinyl Ether	+++++	0.06453	0.07092	0.07349	0.07363	0.07352		
	0.07375	0.07471					0.07208	4.890
41 4-Methyl-2-Pentanone	0.05051	0.04981	0.04741	0.05627	0.05173	0.05273		
	0.05850	0.06151					0.05356	8.928
42 Cis 1,3-dichloropropene	0.37985	0.38559	0.39139	0.43595	0.44119	0.44827		
	0.46044	0.47624					0.42736	8.612
44 Toluene	0.95725	0.93687	0.91346	0.97699	0.94807	0.93797		
	0.99774	0.98493					0.95666	2.952
45 Trans 1,3-Dichloropropene	0.26621	0.26696	0.27010	0.31354	0.32922	0.33842		
	0.35688	0.37261					0.31424	13.461
46 2-Hexanone	0.09349	0.08261	0.08004	0.09201	0.08646	0.08473		
	0.08890	0.08981					0.08726	5.327
47 1,1,2-Trichloroethane	0.18416	0.17994	0.17663	0.19428	0.18815	0.18312		
	0.19016	0.19385					0.18629	3.441

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	40.000 Level 7	60.000 Level 8						
48 1,3-Dichloropropane	0.36619	0.34895	0.34959	0.37196	0.36526	0.35607		
	0.35435	0.35478					0.35839	2.342
49 Tetrachloroethene	0.47111	0.42754	0.42105	0.43187	0.43056	0.42250		
	0.44085	0.43222					0.43471	3.670
50 Chlorodibromomethane	0.23746	0.22691	0.22455	0.24624	0.24502	0.24296		
	0.24910	0.24985					0.24026	4.068
51 1,2-Dibromoethane	0.14946	0.15269	0.15151	0.17639	0.17062	0.16869		
	0.17474	0.17954					0.16545	7.418
53 Chlorobenzene	1.10107	1.02642	1.00938	1.07281	1.04858	1.02581		
	1.07751	1.04651					1.05101	2.940
54 Ethyl Benzene	2.12039	2.00487	1.96691	2.09139	2.02694	1.89356		
	1.99637	1.85349					1.99424	4.534
55 1,1,1,2-Tetrachloroethane	0.32244	0.32317	0.31303	0.33710	0.32168	0.30927		
	0.33020	0.31567					0.32157	2.826
56 m,p-xylene	0.76902	0.73944	0.72384	0.77930	0.75259	0.73649		
	0.78253	0.72928					0.75156	3.048
57 Cyclohexanone	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++

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	40.000 Level 7	60.000 Level 8							
58 o-Xylene	0.71796	0.66609	0.65683	0.72121	0.68452	0.65693			
	0.69599	0.64982					0.68117	4.144	
59 Styrene	1.08243	1.04159	1.01347	1.13883	1.09758	1.05963			
	1.10439	1.03689					1.07185	3.865	
60 Isopropyl Benzene	5.53103	5.04579	5.30125	4.99478	5.00141	5.11884			
	5.83021	5.40690					5.27878	5.647	
61 Bromoform	0.30052	0.25691	0.27775	0.28723	0.29896	0.31795			
	0.35808	0.37569					0.30913	12.981	
62 1,1,2,2-Tetrachloroethane	0.49953	0.44271	0.45676	0.45251	0.43253	0.42271			
	0.45809	0.46129					0.45327	5.083	
64 1,2,3-Trichloropropane	0.13625	0.12960	0.13594	0.13862	0.13412	0.13486			
	0.14414	0.14215					0.13696	3.372	
65 Trans-1,4-Dichloro 2-Butene	+++++	+++++	0.05581	0.06842	0.07652	0.08577			
	0.10163	0.10955					0.08295	24.430	<-
66 N-Propyl Benzene	6.47765	5.68656	6.04599	5.81966	5.79894	5.93600			
	6.50213	5.95388					6.02760	5.070	
67 Bromobenzene	1.05571	0.91753	1.00936	0.94653	0.97318	0.99704			
	1.09847	1.08799					1.01073	6.488	

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	40.000 Level 7	60.000 Level 8						
68 1,3,5-Trimethyl Benzene	4.18408	3.85574	3.95833	3.94406	3.79771	3.78501		
	4.07188	3.60092					3.89972	4.655
69 2-Chloro Toluene	4.12911	3.63015	3.81932	3.65649	3.62839	3.64434		
	4.01754	3.76287					3.78603	5.080
70 4-Chloro Toluene	3.54029	3.09886	3.22522	3.16425	3.18472	3.23095		
	3.49407	3.29724					3.27945	4.815
71 T-Butyl Benzene	3.80185	3.35118	3.40318	3.33723	3.14585	3.08846		
	3.32415	2.91501					3.29586	7.976
72 1,2,4-Trimethylbenzene	4.04045	3.68335	3.73212	3.80443	3.65270	3.54475		
	3.72491	3.34033					3.69038	5.455
73 S-Butyl Benzene	5.58768	5.01659	4.93987	5.03676	4.70106	4.53866		
	4.75459	4.18783					4.84538	8.479
74 4-Isopropyl Toluene	4.22304	3.81842	3.70679	3.92366	3.63073	3.47917		
	3.56511	3.20941					3.69454	8.247
75 1,3-Dichlorobenzene	1.90398	1.66558	1.63105	1.72653	1.67103	1.62851		
	1.70062	1.63574					1.69538	5.376
77 1,4-Dichlorobenzene	1.83575	1.62032	1.56452	1.63335	1.57871	1.53861		
	1.60789	1.56231					1.61768	5.797

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	40.000 Level 7	60.000 Level 8						
78 N-Butyl Benzene	3.74330	3.14439	3.08505	3.39219	3.09568	2.93051		
	2.99616	2.87263					3.15749	9.007
80 1,2-Dichlorobenzene	1.50238	1.29266	1.27644	1.29390	1.21491	1.16961		
	1.22290	1.23022					1.27538	7.941
81 1,2-Dibromo 3-Chloropropane	0.02822	0.03176	0.04235	0.04345	0.04096	0.04153		
	0.04613	0.04913					0.04044	17.403
82 1,2,4-Trichlorobenzene	0.82321	0.54990	0.59832	0.59003	0.58040	0.57146		
	0.61654	0.64376					0.62170	13.871
83 Hexachloro 1,3-Butadiene	+++++	0.42524	0.43388	0.39366	0.34732	0.32448		
	0.33119	0.33437					0.37002	12.606
84 Naphthalene	+++++	0.88030	0.93236	0.86953	0.80389	0.77464		
	0.81143	0.84173					0.84484	6.348
85 1,2,3-Trichlorobenzene	+++++	0.43291	0.48204	0.44178	0.41497	0.38143		
	0.39244	0.40472					0.42147	8.093
$ 28 Dibromofluoromethane	0.40392	0.40969	0.40889	0.42420	0.41953	0.42431		
	0.41915	0.42672					0.41705	2.028
$ 32 d4-1,2-Dichloroethane	0.35762	0.36305	0.36060	0.37922	0.38103	0.36781		
	0.35840	0.36633					0.36676	2.451

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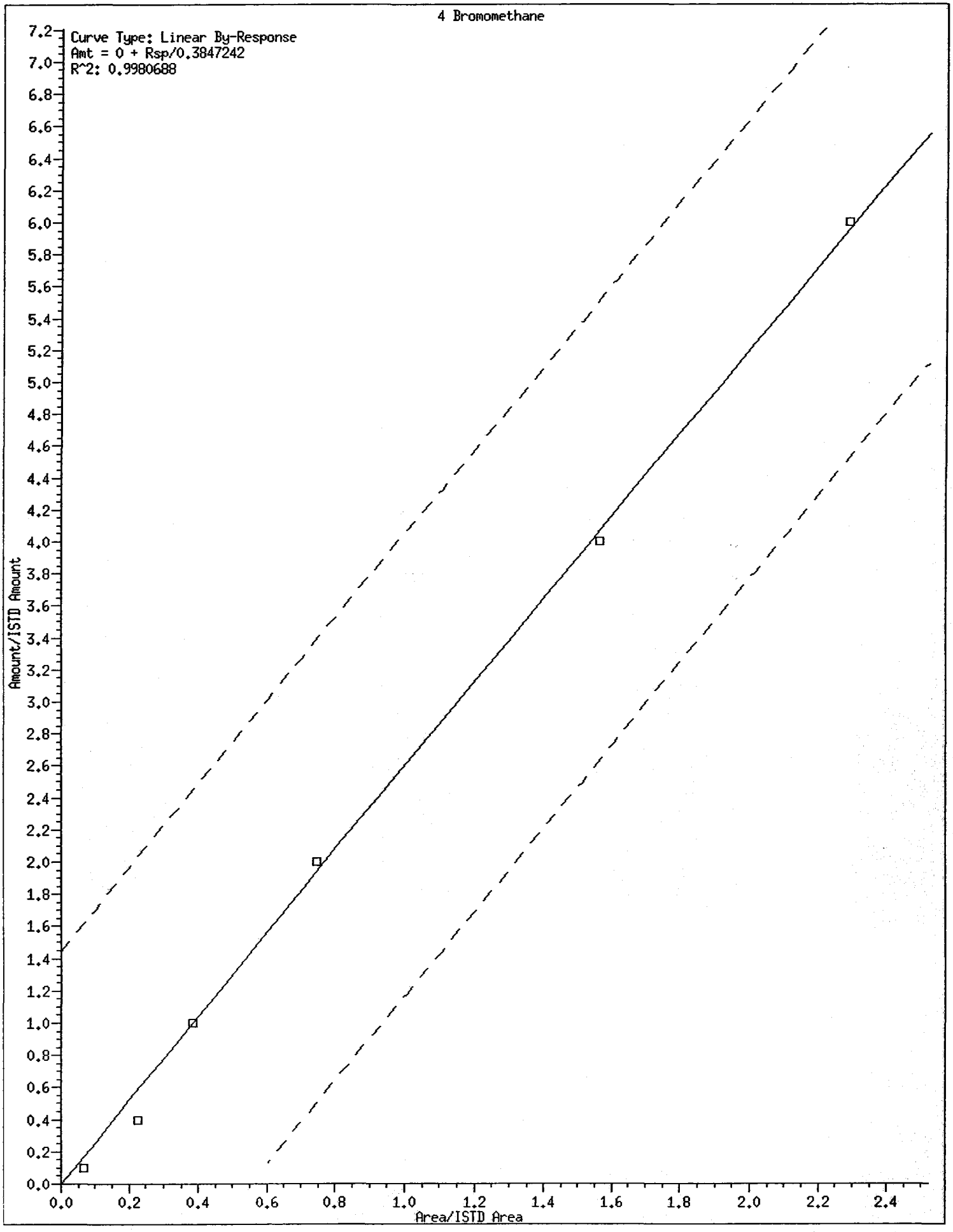
	40.000 Level 7	60.000 Level 8						
$ 43 d8-Toluene	1.20969	1.22660	1.22460	1.22702	1.20585	1.21601		
	1.22293	1.21528					1.21850	0.658
$ 63 4-Bromofluorobenzene	0.41797	0.42295	0.40140	0.43515	0.41929	0.39981		
	0.38811	0.36083					0.40569	5.800
$ 79 d4-1,2-Dichlorobenzene	0.79372	0.80687	0.78933	0.78782	0.76091	0.74694		
	0.75619	0.77965					0.77768	2.680


4 Bromomethane
Curve Type: Linear By-Response
Amt = 0 + Rsp/0.3847242
R^2: 0.9980688
Amount/ISTD Amount
Area/ISTD Area
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
1.8
2.0
2.2
2.4
7.2
7.0
6.8
6.6
6.4
6.2
6.0
5.8
5.6
5.4
5.2
5.0
4.8
4.6
4.4
4.2
4.0
3.8
3.6
3.4
3.2
3.0
2.8
2.6
2.4
2.2
2.0
1.8
1.6
1.4
1.2
1.0
0.8
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0.4
0.2
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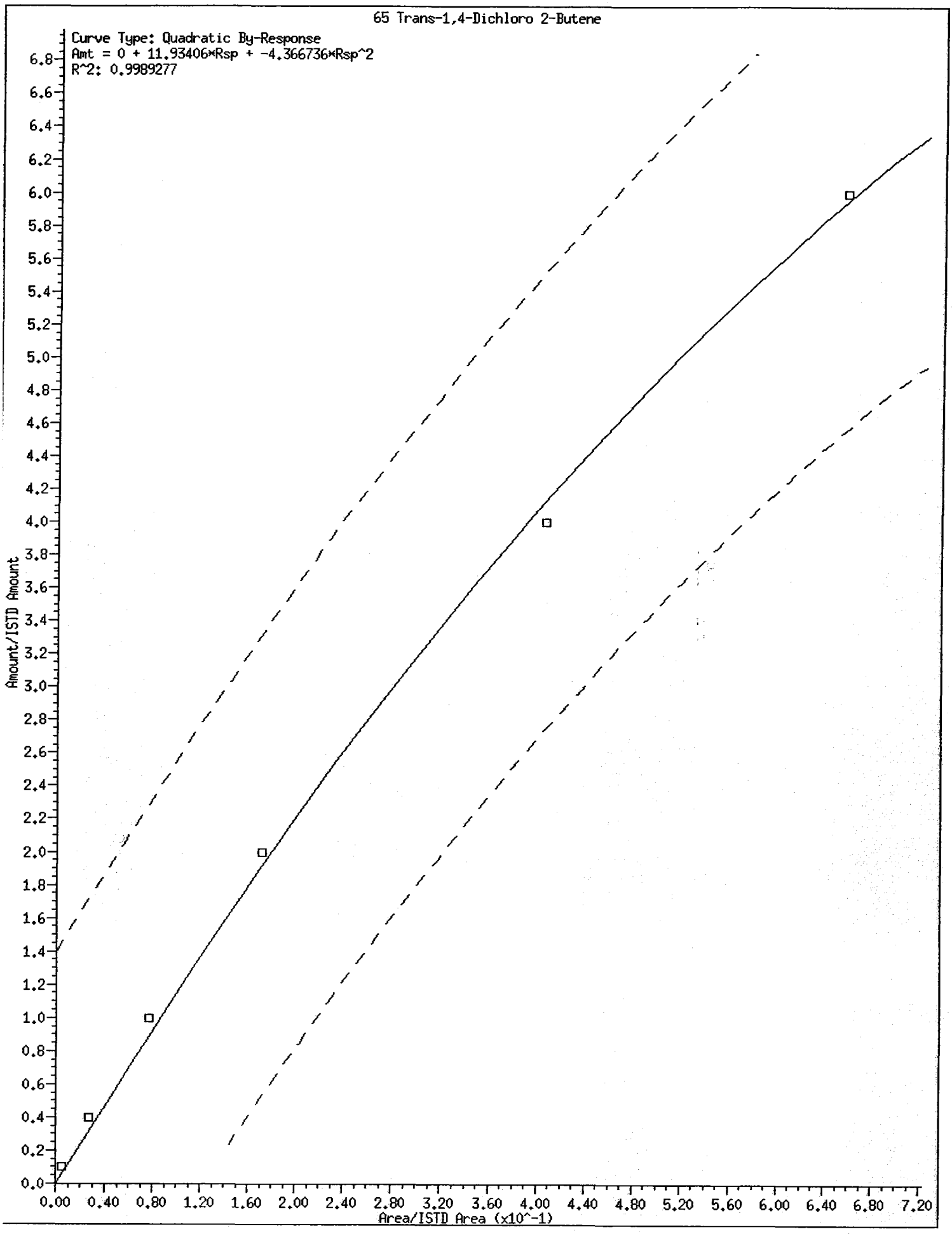
65 Trans-1,4-Dichloro 2-Butene
Curve Type: Quadratic By-Response
Amt = 0 + 11.93406*Rsp + -4.366736*Rsp^2
R^2: 0.9989277
Amount/ISTD Amount
Area/ISTD Area (x10^-1)
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
1.8
2.0
2.2
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0.00
0.40
0.80
1.20
1.60
2.00
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3.20
3.60
4.00
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4.80
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6.00
6.40
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7.20

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Calibration File Names:
Level 1: /chem1/nt10.i/22FEB10.b/0020222.d
Level 2: /chem1/nt10.i/22FEB10.b/0050222.d
Level 3: /chem1/nt10.i/22FEB10.b/0100222.d
Level 4: /chem1/nt10.i/22FEB10.b/0400222.d
Level 5: /chem1/nt10.i/22FEB10.b/1000222.d
Level 6: /chem1/nt10.i/22FEB10.b/2000222.d
Level 7: /chem1/nt10.i/22FEB10.b/4000222a.d
Level 8: /chem1/nt10.i/22FEB10.b/6000222.d

Compound	0.2000 Level 1	0.5000 Level 2	1 Level 3	4 Level 4	10 Level 5	20 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	40 Level 7	60 Level 8									
1 Dichlorodifluoromethane	0.25294	0.28658	0.21875	0.26125	0.27561	0.26586					
	0.21665	0.22883					AVRG		0.25081		10.56218
2 Chloromethane	+++++	0.48652	0.40683	0.35031	0.34244	0.33717					
	0.37044	0.33248					AVRG		0.37517		14.75259
3 Vinyl Chloride	0.46764	0.48122	0.41548	0.47031	0.43078	0.43418					
	0.44202	0.42683					AVRG		0.44606		5.34974

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Compound	0.2000 Level 1	0.5000 Level 2	1 Level 3	4 Level 4	10 Level 5	20 Level 6	40 Level 7	60 Level 8	Curve	Coefficients b	m1	m2	%RSD or R^2
4 Bromomethane	+++++	+++++	28908	92429	175949	336901	691556	1060997	LINR	0.000e+00	0.38472		0.99807
5 Chloroethane	0.33438	0.37875	0.32507	0.39547	0.32526	0.33163	0.37694	0.33478	AVRG		0.35028		8.12215
6 Trichlorofluoromethane	0.60714	0.65610	0.58750	0.66229	0.61508	0.60334	0.66063	0.62382	AVRG		0.62699		4.62644
7 Allyl Chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00
8 Acrolein	+++++	0.03037	0.02730	0.03060	0.02630	0.02723	0.02942	0.03028	AVRG		0.02879		6.22216
9 112Trichloro122Trifluoroethan	0.42345	0.44968	0.38082	0.45142	0.40616	0.39716	0.43968	0.39874	AVRG		0.41839		6.35384
10 Acetone	+++++	0.05557	0.04813	0.04820	0.04113	0.04101	0.04422	0.04428	AVRG		0.04608		11.05163

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Compound	0.2000 Level 1	0.5000 Level 2	1 Level 3	4 Level 4	10 Level 5	20 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	40 Level 7	60 Level 8									
11 1,1-Dichloroethene	0.50470	0.53018	0.45277	0.52587	0.47806	0.45623					
	0.54994	0.48342					AVRG		0.49765		7.18689
12 Bromoethane	0.32022	0.32577	0.29003	0.31212	0.29214	0.28849					
	0.30357	0.29734					AVRG		0.30371		4.69456
13 Iodomethane	+++++	0.85816	0.73944	0.72087	0.58843	0.59329					
	0.64658	0.56133					AVRG		0.67258		15.78894
14 Methylene Chloride	0.40681	0.42677	0.39028	0.44063	0.40359	0.38733					
	0.44475	0.41618					AVRG		0.41454		5.20094
15 Acrylonitrile	+++++	0.05293	0.05402	0.06293	0.05723	0.05748					
	0.06231	0.06386					AVRG		0.05868		7.50625
16 Methyl tert butyl ether	0.76616	0.76991	0.71867	0.75818	0.72710	0.71123					
	0.71937	0.68325					AVRG		0.73174		4.15091
17 Carbon Disulfide	1.61297	1.72583	1.39225	1.71067	1.59361	1.54525					
	1.79174	1.66368					AVRG		1.62950		7.63360

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Compound	0.2000 Level 1 / 40 Level 7	0.5000 Level 2 / 60 Level 8	1 Level 3	4 Level 4	10 Level 5	20 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
18 Trans-1,2-Dichloroethene	0.52788	0.52743	0.49081	0.54509	0.50976	0.50441					
	0.55433	0.52357					AVRG		0.52291		4.00532
19 Methyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+00		0.000e+00
20 Vinyl Acetate	0.46744	0.42668	0.45467	0.47702	0.46799	0.46881					
	0.45832	0.48090					AVRG		0.46273		3.65801
21 1,1-Dichloroethane	0.84077	0.83559	0.78661	0.88899	0.85637	0.83746					
	0.88600	0.88355					AVRG		0.85192		4.07134
22 2-Butanone	0.02818	0.02902	0.02737	0.03056	0.02976	0.02964					
	0.03047	0.03209					AVRG		0.02964		4.97764
23 2,2-Dichloropropane	0.36371	0.34108	0.32504	0.35243	0.33254	0.34486					
	0.31784	0.33431					AVRG		0.33898		4.36954
24 Cis-1,2-Dichloroethene	0.72098	0.57717	0.54986	0.56964	0.55382	0.54224					
	0.58940	0.56405					AVRG		0.58340		9.88119

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Compound	0.2000 Level 1	0.5000 Level 2	1 Level 3	4 Level 4	10 Level 5	20 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	40 Level 7	60 Level 8									
26 Chloroform	0.88149	0.88897	0.88386	0.94940	0.91106	0.88543					
	0.95016	0.91053					AVRG		0.90761		3.13396
27 Bromochloromethane	0.18428	0.19916	0.18727	0.20881	0.19682	0.19646					
	0.20335	0.20914					AVRG		0.19816		4.58424
29 1,1,1-Trichloroethane	0.69175	0.71531	0.67222	0.74956	0.70153	0.68961					
	0.70596	0.72182					AVRG		0.70597		3.32967
30 1,1-Dichloropropene	0.49940	0.48921	0.48303	0.49886	0.49475	0.49155					
	0.51133	0.50361					AVRG		0.49647		1.77950
31 Carbon Tetrachloride	0.35686	0.35518	0.35188	0.37773	0.35612	0.35940					
	0.37228	0.37623					AVRG		0.36321		2.87049
33 1,2-Dichloroethane	0.30982	0.29537	0.30188	0.31297	0.29975	0.29240					
	0.29949	0.30038					AVRG		0.30151		2.27630
34 Benzene	1.45273	1.35928	1.37257	1.43199	1.40249	1.36822					
	1.43532	1.39802					AVRG		1.40257		2.47407

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Compound	0.2000 Level 1	0.5000 Level 2	1 Level 3	4 Level 4	10 Level 5	20 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	40 Level 7	60 Level 8									
36 Trichloroethene	0.34602	0.34284	0.35210	0.37728	0.40527	0.38766					
	0.39802	0.39734					AVRG		0.37582		6.74964
37 1,2-Dichloropropane	0.30010	0.29648	0.29192	0.31168	0.30427	0.30000					
	0.31380	0.31082					AVRG		0.30363		2.59407
38 Bromodichloromethane	0.37206	0.36144	0.36157	0.39633	0.38972	0.38817					
	0.39643	0.40624					AVRG		0.38400		4.40877
39 Dibromomethane	0.11202	0.11427	0.11559	0.13082	0.12347	0.12129					
	0.12464	0.12862					AVRG		0.12134		5.64328
40 2-Chloroethyl Vinyl Ether	+++++	0.06453	0.07092	0.07349	0.07363	0.07352					
	0.07375	0.07471					AVRG		0.07208		4.88956
41 4-Methyl-2-Pentanone	0.05051	0.04981	0.04741	0.05627	0.05173	0.05273					
	0.05850	0.06151					AVRG		0.05356		8.92789
42 Cis 1,3-dichloropropene	0.37985	0.38559	0.39139	0.43595	0.44119	0.44827					
	0.46044	0.47624					AVRG		0.42736		8.61183

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Compound	0.2000 Level 1	0.5000 Level 2	1 Level 3	4 Level 4	10 Level 5	20 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	40 Level 7	60 Level 8									
44 Toluene	0.95725	0.93687	0.91346	0.97699	0.94807	0.93797					
	0.99774	0.98493					AVRG		0.95666		2.95179
45 Trans 1,3-Dichloropropene	0.26621	0.26696	0.27010	0.31354	0.32922	0.33842					
	0.35688	0.37261					AVRG		0.31424		13.46100
46 2-Hexanone	0.09349	0.08261	0.08004	0.09201	0.08646	0.08473					
	0.08890	0.08981					AVRG		0.08726		5.32697
47 1,1,2-Trichloroethane	0.18416	0.17994	0.17663	0.19428	0.18815	0.18312					
	0.19016	0.19385					AVRG		0.18629		3.44132
48 1,3-Dichloropropane	0.36619	0.34895	0.34959	0.37196	0.36526	0.35607					
	0.35435	0.35478					AVRG		0.35839		2.34220
49 Tetrachloroethene	0.47111	0.42754	0.42105	0.43187	0.43056	0.42250					
	0.44085	0.43222					AVRG		0.43471		3.66980
50 Chlorodibromomethane	0.23746	0.22691	0.22455	0.24624	0.24502	0.24296					
	0.24910	0.24985					AVRG		0.24026		4.06754

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Compound	0.2000 Level 1	0.5000 Level 2	1 Level 3	4 Level 4	10 Level 5	20 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	40 Level 7	60 Level 8									
51 1,2-Dibromoethane	0.14946	0.15269	0.15151	0.17639	0.17062	0.16869					
	0.17474	0.17954					AVRG		0.16545		7.41819
53 Chlorobenzene	1.10107	1.02642	1.00938	1.07281	1.04858	1.02581					
	1.07751	1.04651					AVRG		1.05101		2.93984
54 Ethyl Benzene	2.12039	2.00487	1.96691	2.09139	2.02694	1.89356					
	1.99637	1.85349					AVRG		1.99424		4.53410
55 1,1,1,2-Tetrachloroethane	0.32244	0.32317	0.31303	0.33710	0.32168	0.30927					
	0.33020	0.31567					AVRG		0.32157		2.82613
56 m,p-xylene	0.76902	0.73944	0.72384	0.77930	0.75259	0.73649					
	0.78253	0.72928					AVRG		0.75156		3.04833
57 Cyclohexanone	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+00		0.000e+00
58 o-Xylene	0.71796	0.66609	0.65683	0.72121	0.68452	0.65693					
	0.69599	0.64982					AVRG		0.68117		4.14422

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Compound	0.2000 Level 1	0.5000 Level 2	1 Level 3	4 Level 4	10 Level 5	20 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	40 Level 7	60 Level 8									
59 Styrene	1.08243	1.04159	1.01347	1.13883	1.09758	1.05963					
	1.10439	1.03689					AVRG		1.07185		3.86530
60 Isopropyl Benzene	5.53103	5.04579	5.30125	4.99478	5.00141	5.11884					
	5.83021	5.40690					AVRG		5.27878		5.64730
61 Bromoform	0.30052	0.25691	0.27775	0.28723	0.29896	0.31795					
	0.35808	0.37569					AVRG		0.30913		12.98144
62 1,1,2,2-Tetrachloroethane	0.49953	0.44271	0.45676	0.45251	0.43253	0.42271					
	0.45809	0.46129					AVRG		0.45327		5.08293
64 1,2,3-Trichloropropane	0.13625	0.12960	0.13594	0.13862	0.13412	0.13486					
	0.14414	0.14215					AVRG		0.13696		3.37238
65 Trans-1,4-Dichloro 2-Butene	+++++	+++++	1161	6578	19128	39300					
	86818	141538					QUAD	0.000e+00	11.93406	-4.36674	0.99893
66 N-Propyl Benzene	6.47765	5.68656	6.04599	5.81966	5.79894	5.93600					
	6.50213	5.95388					AVRG		6.02760		5.06996

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Compound	0.2000 Level 1	0.5000 Level 2	1 Level 3	4 Level 4	10 Level 5	20 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	40 Level 7	60 Level 8									
67 Bromobenzene	1.05571	0.91753	1.00936	0.94653	0.97318	0.99704					
	1.09847	1.08799					AVRG		1.01073		6.48766
68 1,3,5-Trimethyl Benzene	4.18408	3.85574	3.95833	3.94406	3.79771	3.78501					
	4.07188	3.60092					AVRG		3.89972		4.65503
69 2-Chloro Toluene	4.12911	3.63015	3.81932	3.65649	3.62839	3.64434					
	4.01754	3.76287					AVRG		3.78603		5.08017
70 4-Chloro Toluene	3.54029	3.09886	3.22522	3.16425	3.18472	3.23095					
	3.49407	3.29724					AVRG		3.27945		4.81533
71 T-Butyl Benzene	3.80185	3.35118	3.40318	3.33723	3.14585	3.08846					
	3.32415	2.91501					AVRG		3.29586		7.97551
72 1,2,4-Trimethylbenzene	4.04045	3.68335	3.73212	3.80443	3.65270	3.54475					
	3.72491	3.34033					AVRG		3.69038		5.45522
73 S-Butyl Benzene	5.58768	5.01659	4.93987	5.03676	4.70106	4.53866					
	4.75459	4.18783					AVRG		4.84538		8.47854

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Compound	0.2000 Level 1 / 40 Level 7	0.5000 Level 2 / 60 Level 8	1 Level 3	4 Level 4	10 Level 5	20 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
74 4-Isopropyl Toluene	4.22304	3.81842	3.70679	3.92366	3.63073	3.47917					
	3.56511	3.20941					AVRG		3.69454		8.24706
75 1,3-Dichlorobenzene	1.90398	1.66558	1.63105	1.72653	1.67103	1.62851					
	1.70062	1.63574					AVRG		1.69538		5.37639
77 1,4-Dichlorobenzene	1.83575	1.62032	1.56452	1.63335	1.57871	1.53861					
	1.60789	1.56231					AVRG		1.61768		5.79720
78 N-Butyl Benzene	3.74330	3.14439	3.08505	3.39219	3.09568	2.93051					
	2.99616	2.87263					AVRG		3.15749		9.00723
80 1,2-Dichlorobenzene	1.50238	1.29266	1.27644	1.29390	1.21491	1.16961					
	1.22290	1.23022					AVRG		1.27538		7.94138
81 1,2-Dibromo 3-Chloropropane	0.02822	0.03176	0.04235	0.04345	0.04096	0.04153					
	0.04613	0.04913					AVRG		0.04044		17.40280
82 1,2,4-Trichlorobenzene	0.82321	0.54990	0.59832	0.59003	0.58040	0.57146					
	0.61654	0.64376					AVRG		0.62170		13.87065

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Compound	0.2000 Level 1 / 40 Level 7	0.5000 Level 2 / 60 Level 8	1 Level 3	4 Level 4	10 Level 5	20 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
83 Hexachloro 1,3-Butadiene	+++++	0.42524	0.43388	0.39366	0.34732	0.32448					
	0.33119	0.33437					AVRG		0.37002		12.60567
84 Naphthalene	+++++	0.88030	0.93236	0.86953	0.80389	0.77464					
	0.81143	0.84173					AVRG		0.84484		6.34784
85 1,2,3-Trichlorobenzene	+++++	0.43291	0.48204	0.44178	0.41497	0.38143					
	0.39244	0.40472					AVRG		0.42147		8.09312
$ 28 Dibromofluoromethane	0.40392	0.40969	0.40889	0.42420	0.41953	0.42431					
	0.41915	0.42672					AVRG		0.41705		2.02845
$ 32 d4-1,2-Dichloroethane	0.35762	0.36305	0.36060	0.37922	0.38103	0.36781					
	0.35840	0.36633					AVRG		0.36676		2.45077
$ 43 d8-Toluene	1.20969	1.22660	1.22460	1.22702	1.20585	1.21601					
	1.22293	1.21528					AVRG		1.21850		0.65752
$ 63 4-Bromofluorobenzene	0.41797	0.42295	0.40140	0.43515	0.41929	0.39981					
	0.38811	0.36083					AVRG		0.40569		5.80017

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Method file : /chem1/nt10.i/22FEB10.b/82600122L.m
Cal Date : 23-Feb-2010 14:59 aron

Compound	0.2000 Level 1	0.5000 Level 2	1 Level 3	4 Level 4	10 Level 5	20 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	40 Level 7	60 Level 8									
$ 79 d4-1,2-Dichlorobenzene	0.79372	0.80687	0.78933	0.78782	0.76091	0.74694					
	0.75619	0.77965					AVRG		0.77768		2.67950

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 22-FEB-2010 14:42
End Cal Date : 22-FEB-2010 18:41
Quant Method : ISTD
Target Version : 3.50
Integrator : Falcon
Method file : /chem1/nt10.i/22FEB10.b/82600122L.m
Cal Date : 23-Feb-2010 14:59 aron

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Linear	Amt = b + Rsp/m1	Response
Quad	Amt = b + m1*Rsp + m2*Rsp^2	Response

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt10.i Injection Date: 22-FEB-2010 17:11
Lab File ID: 1000222.d Init. Cal. Date(s): 22-FEB-2010 22-FEB-2010
Analysis Type: WATER Init. Cal. Times: 14:42 18:41
Lab Sample ID: IC100 Quant Type: ISTD
Method: /chem1/nt10.i/22FEB10.b/82600122L.m

COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
1 Dichlorodifluoromethane	0.25081	0.27561	0.27561	0.010	9.88956	20.00000	Averaged
2 Chloromethane	0.37517	0.34244	0.34244	0.100	-8.72321	20.00000	Averaged
3 Vinyl Chloride	0.44606	0.43078	0.43078	0.100	-3.42590	20.00000	Averaged
4 Bromomethane	10.02433	10.00000	0.38566	0.100	0.24330	20.00000	Linear
5 Chloroethane	0.35028	0.32526	0.32526	0.010	-7.14452	20.00000	Averaged
6 Trichlorofluoromethane	0.62699	0.61508	0.61508	0.010	-1.89984	20.00000	Averaged
8 Acrolein	0.02879	0.02630	0.02630	0.000	-8.62839	20.00000	Averaged
9 112Trichloro122Trifluoroeth	0.41839	0.40616	0.40616	0.010	-2.92261	20.00000	Averaged
10 Acetone	0.04608	0.04113	0.04113	0.001	-10.73021	20.00000	Averaged
11 1,1-Dichloroethene	0.49765	0.47806	0.47806	0.100	-3.93615	20.00000	Averaged
12 Bromoethane	0.30371	0.29214	0.29214	0.100	-3.80830	20.00000	Averaged
13 Iodomethane	0.67258	0.58843	0.58843	0.010	-12.51189	20.00000	Averaged
14 Methylene Chloride	0.41454	0.40359	0.40359	0.010	-2.64144	20.00000	Averaged
15 Acrylonitrile	0.05868	0.05723	0.05723	0.001	-2.46525	20.00000	Averaged
16 Methyl tert butyl ether	0.73174	0.72710	0.72710	0.100	-0.63306	20.00000	Averaged
17 Carbon Disulfide	1.62950	1.59361	1.59361	0.010	-2.20256	20.00000	Averaged
18 Trans-1,2-Dichloroethene	0.52291	0.50976	0.50976	0.010	-2.51449	20.00000	Averaged
20 Vinyl Acetate	0.46273	0.46799	0.46799	0.010	1.13711	20.00000	Averaged
21 1,1-Dichloroethane	0.85192	0.85637	0.85637	0.200	0.52270	20.00000	Averaged
22 2-Butanone	0.02964	0.02976	0.02976	0.001	0.43434	20.00000	Averaged
23 2,2-Dichloropropane	0.33898	0.33254	0.33254	0.010	-1.89774	20.00000	Averaged
24 Cis-1,2-Dichloroethene	0.58340	0.55382	0.55382	0.010	-5.06924	20.00000	Averaged
26 Chloroform	0.90761	0.91106	0.91106	0.200	0.38010	20.00000	Averaged
27 Bromochloromethane	0.19816	0.19682	0.19682	0.050	-0.67889	20.00000	Averaged
$ 28 Dibromofluoromethane	0.41705	0.41953	0.41953	0.100	0.59409	20.00000	Averaged
29 1,1,1-Trichloroethane	0.70597	0.70153	0.70153	0.100	-0.62867	20.00000	Averaged
30 1,1-Dichloropropene	0.49647	0.49475	0.49475	0.010	-0.34521	20.00000	Averaged
31 Carbon Tetrachloride	0.36321	0.35612	0.35612	0.100	-1.95297	20.00000	Averaged
$ 32 d4-1,2-Dichloroethane	0.36676	0.38103	0.38103	0.010	3.89250	20.00000	Averaged
33 1,2-Dichloroethane	0.30151	0.29975	0.29975	0.100	-0.58331	20.00000	Averaged
34 Benzene	1.40257	1.40249	1.40249	0.500	-0.00610	20.00000	Averaged
36 Trichloroethene	0.37582	0.40527	0.40527	0.100	7.83743	20.00000	Averaged
37 1,2-Dichloropropane	0.30363	0.30427	0.30427	0.100	0.20913	20.00000	Averaged
38 Bromodichloromethane	0.38400	0.38972	0.38972	0.100	1.49016	20.00000	Averaged
39 Dibromomethane	0.12134	0.12347	0.12347	0.010	1.75867	20.00000	Averaged

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt10.i Injection Date: 22-FEB-2010 17:11
Lab File ID: 1000222.d Init. Cal. Date(s): 22-FEB-2010 22-FEB-2010
Analysis Type: WATER Init. Cal. Times: 14:42 18:41
Lab Sample ID: IC100 Quant Type: ISTD
Method: /chem1/nt10.i/22FEB10.b/82600122L.m

COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
40 2-Chloroethyl Vinyl Ether	0.07208	0.07363	0.07363	0.000	2.14623	20.00000	Averaged
41 4-Methyl-2-Pentanone	0.05356	0.05173	0.05173	0.000	-3.41276	20.00000	Averaged
42 Cis 1,3-dichloropropene	0.42736	0.44119	0.44119	0.200	3.23451	20.00000	Averaged
$ 43 d8-Toluene	1.21850	1.20585	1.20585	0.010	-1.03826	20.00000	Averaged
44 Toluene	0.95666	0.94807	0.94807	0.400	-0.89808	20.00000	Averaged
45 Trans 1,3-Dichloropropene	0.31424	0.32922	0.32922	0.010	4.76554	20.00000	Averaged
46 2-Hexanone	0.08726	0.08646	0.08646	0.010	-0.91700	20.00000	Averaged
47 1,1,2-Trichloroethane	0.18629	0.18815	0.18815	0.100	1.00025	20.00000	Averaged
48 1,3-Dichloropropane	0.35839	0.36526	0.36526	0.100	1.91596	20.00000	Averaged
49 Tetrachloroethene	0.43471	0.43056	0.43056	0.200	-0.95514	20.00000	Averaged
50 Chlorodibromomethane	0.24026	0.24502	0.24502	0.100	1.98168	20.00000	Averaged
51 1,2-Dibromoethane	0.16545	0.17062	0.17062	0.010	3.12034	20.00000	Averaged
53 Chlorobenzene	1.05101	1.04858	1.04858	0.500	-0.23106	20.00000	Averaged
54 Ethyl Benzene	1.99424	2.02694	2.02694	0.100	1.63983	20.00000	Averaged
55 1,1,1,2-Tetrachloroethane	0.32157	0.32168	0.32168	0.010	0.03447	20.00000	Averaged
56 m,p-xylene	0.75156	0.75259	0.75259	0.300	0.13740	20.00000	Averaged
58 o-Xylene	0.68117	0.68452	0.68452	0.300	0.49202	20.00000	Averaged
59 Styrene	1.07185	1.09758	1.09758	0.300	2.39998	20.00000	Averaged
60 Isopropyl Benzene	5.27878	5.00141	5.00141	0.010	-5.25440	20.00000	Averaged
61 Bromoform	0.30913	0.29896	0.29896	0.010	-3.29125	20.00000	Averaged
62 1,1,2,2-Tetrachloroethane	0.45327	0.43253	0.43253	0.100	-4.57544	20.00000	Averaged
$ 63 4-Bromofluorobenzene	0.40569	0.41929	0.41929	0.200	3.35226	20.00000	Averaged
64 1,2,3-Trichloropropane	0.13696	0.13412	0.13412	0.010	-2.07179	20.00000	Averaged
65 Trans-1,4-Dichloro 2-Butene	8.87663	10.00000	0.07652	0.001	-11.23370	20.00000	Quadratic
66 N-Propyl Benzene	6.02760	5.79894	5.79894	0.010	-3.79360	20.00000	Averaged
67 Bromobenzene	1.01073	0.97318	0.97318	0.010	-3.71513	20.00000	Averaged
68 1,3,5-Trimethyl Benzene	3.89972	3.79771	3.79771	0.010	-2.61574	20.00000	Averaged
69 2-Chloro Toluene	3.78603	3.62839	3.62839	0.010	-4.16367	20.00000	Averaged
70 4-Chloro Toluene	3.27945	3.18472	3.18472	0.010	-2.88854	20.00000	Averaged
71 T-Butyl Benzene	3.29586	3.14585	3.14585	0.010	-4.55160	20.00000	Averaged
72 1,2,4-Trimethylbenzene	3.69038	3.65270	3.65270	0.010	-1.02104	20.00000	Averaged
73 S-Butyl Benzene	4.84538	4.70106	4.70106	0.010	-2.97857	20.00000	Averaged
74 4-Isopropyl Toluene	3.69454	3.63073	3.63073	0.010	-1.72704	20.00000	Averaged
75 1,3-Dichlorobenzene	1.69538	1.67103	1.67103	0.600	-1.43639	20.00000	Averaged
77 1,4-Dichlorobenzene	1.61768	1.57871	1.57871	0.500	-2.40942	20.00000	Averaged

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt10.i Injection Date: 22-FEB-2010 17:11
Lab File ID: 1000222.d Init. Cal. Date(s): 22-FEB-2010 22-FEB-2010
Analysis Type: WATER Init. Cal. Times: 14:42 18:41
Lab Sample ID: IC100 Quant Type: ISTD
Method: /chem1/nt10.i/22FEB10.b/82600122L.m

COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
78 N-Butyl Benzene	3.15749	3.09568	3.09568	0.010	-1.95749	20.00000	Averaged
$ 79 d4-1,2-Dichlorobenzene	0.77768	0.76091	0.76091	0.010	-2.15656	20.00000	Averaged
80 1,2-Dichlorobenzene	1.27538	1.21491	1.21491	0.400	-4.74120	20.00000	Averaged
81 1,2-Dibromo 3-Chloropropane	0.04044	0.04096	0.04096	0.010	1.28875	20.00000	Averaged
82 1,2,4-Trichlorobenzene	0.62170	0.58040	0.58040	0.010	-6.64312	20.00000	Averaged
83 Hexachloro 1,3-Butadiene	0.37002	0.34732	0.34732	0.010	-6.13478	20.00000	Averaged
84 Naphthalene	0.84484	0.80389	0.80389	0.010	-4.84691	20.00000	Averaged
85 1,2,3-Trichlorobenzene	0.42147	0.41497	0.41497	0.010	-1.54344	20.00000	Averaged

Analytical Resources, Inc.

8260C

Data file : /chem1/nt10.i/22FEB10.b/0020222.d
Lab Smp Id: IC002 Client Smp ID: vstd1
Inj Date : 22-FEB-2010 14:42
Operator : ar Inst ID: nt10.i
Smp Info : IC002,10,10,0
Misc Info : 10-
Comment :
Method : /chem1/nt10.i/22FEB10.b/82600122L.m
Meth Date : 23-Feb-2010 15:01 aron Quant Type: ISTD
Cal Date : 22-FEB-2010 15:12 Cal File: 6000222.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	10.00000	Purge Volume (mL)
Sa	10.00000	Sample Amount (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1	Dichlorodifluoromethane	85	1.380	1.385	(0.262)	2553	0.20000	0.2017
2	Chloromethane	50	1.539	1.545	(0.292)	5526	0.20000	0.2919(M)
3	Vinyl Chloride	62	1.602	1.613	(0.304)	4720	0.20000	0.2097
4	Bromomethane	94	1.886	1.892	(0.358)	12564	0.20000	0.6471(M)
5	Chloroethane	64	2.011	2.000	(0.382)	3375	0.20000	0.1909(M)
6	Trichlorofluoromethane	101	2.125	2.125	(0.404)	6128	0.20000	0.1937(M)
8	Acrolein	56	2.985	2.996	(0.567)	1450	1.00000	0.9981(M)
9	112Trichloro122Trifluoroethane	101	2.660	2.666	(0.505)	4274	0.20000	0.2024(M)
10	Acetone	43	3.332	3.326	(0.633)	3683	1.00000	1.584
11	1,1-Dichloroethene	96	2.609	2.609	(0.495)	5094	0.20000	0.2028(M)
12	Bromoethane	108	2.882	2.882	(0.547)	3232	0.20000	0.2109
13	Iodomethane	142	2.746	2.740	(0.521)	12306	0.20000	0.3626(M)
14	Methylene Chloride	84	3.246	3.252	(0.616)	4106	0.20000	0.1963(M)
15	Acrylonitrile	53	4.094	4.089	(0.777)	485	0.20000	0.1638(TQM)
16	Methyl tert butyl ether	73	3.548	3.554	(0.674)	7733	0.20000	0.2094(M)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	17 Carbon Disulfide	76	2.615	2.615	(0.496)	16280	0.20000	0.1980(M)
	18 Trans-1,2-Dichloroethene	96	3.411	3.411	(0.648)	5328	0.20000	0.2019(M)
	20 Vinyl Acetate	43	4.282	4.282	(0.813)	4718	0.20000	0.2020
	21 1,1-Dichloroethane	63	4.020	4.020	(0.763)	8486	0.20000	0.1974
	22 2-Butanone	72	4.994	4.994	(0.948)	1422	1.00000	0.9508(Q)
	23 2,2-Dichloropropane	77	4.589	4.584	(0.871)	3671	0.20000	0.2146(M)
	24 Cis-1,2-Dichloroethene	96	4.493	4.498	(0.853)	7277	0.20000	0.2472
*	25 Pentafluorobenzene	168	5.267	5.272	(1.000)	504659	10.0000	
	26 Chloroform	83	4.737	4.737	(0.900)	8897	0.20000	0.1942
	27 Bromochloromethane	128	4.663	4.663	(0.885)	1860	0.20000	0.1860
$	28 Dibromofluoromethane	111	4.880	4.880	(0.927)	203844	10.0000	9.685
	29 1,1,1-Trichloroethane	97	4.885	4.885	(0.928)	6982	0.20000	0.1960(Q)
	30 1,1-Dichloropropene	75	4.982	4.982	(0.881)	8016	0.20000	0.2012
	31 Carbon Tetrachloride	117	4.823	4.823	(0.853)	5728	0.20000	0.1965(M)
$	32 d4-1,2-Dichloroethane	65	5.289	5.289	(1.004)	180475	10.0000	9.751
	33 1,2-Dichloroethane	62	5.341	5.341	(0.945)	4973	0.20000	0.2055(M)
	34 Benzene	78	5.176	5.181	(0.915)	23318	0.20000	0.2072(M)
*	35 1,4-Difluorobenzene	114	5.654	5.659	(1.000)	802559	10.0000	
	36 Trichloroethene	95	5.614	5.620	(0.993)	5554	0.20000	0.1841
	37 1,2-Dichloropropane	63	6.001	6.007	(1.061)	4817	0.20000	0.1977
	38 Bromodichloromethane	83	6.052	6.052	(1.070)	5972	0.20000	0.1938
	39 Dibromomethane	93	5.927	5.927	(1.048)	1798	0.20000	0.1846
	40 2-Chloroethyl Vinyl Ether	63	6.633	6.468	(1.173)	858	0.20000	0.1483(TQ)
	41 4-Methyl-2-Pentanone	58	6.946	6.946	(1.228)	4054	1.00000	0.9431
	42 Cis 1,3-dichloropropene	75	6.502	6.502	(1.150)	6097	0.20000	0.1778
$	43 d8-Toluene	98	6.627	6.633	(1.172)	970850	10.0000	9.928
	44 Toluene	92	6.667	6.667	(1.179)	15365	0.20000	0.2001
	45 Trans 1,3-Dichloropropene	75	6.963	6.963	(1.232)	4273	0.20000	0.1694
	46 2-Hexanone	43	7.526	7.526	(0.976)	6518	1.00000	1.071
	47 1,1,2-Trichloroethane	97	7.071	7.076	(1.251)	2956	0.20000	0.1977
	48 1,3-Dichloropropane	76	7.264	7.264	(0.942)	5106	0.20000	0.2043
	49 Tetrachloroethene	166	6.928	6.928	(0.898)	6569	0.20000	0.2167
	50 Chlorodibromomethane	129	7.196	7.196	(0.933)	3311	0.20000	0.1977
	51 1,2-Dibromoethane	107	7.361	7.361	(1.302)	2399	0.20000	0.1807
*	52 d5-Chlorobenzene	117	7.714	7.720	(1.000)	697183	10.0000	
	53 Chlorobenzene	112	7.725	7.731	(1.001)	15353	0.20000	0.2095(Q)
	54 Ethyl Benzene	91	7.748	7.748	(1.004)	29566	0.20000	0.2127
	55 1,1,1,2-Tetrachloroethane	131	7.776	7.776	(1.008)	4496	0.20000	0.2005
	56 m,p-xylene	106	7.850	7.850	(1.018)	21446	0.40000	0.4093
	58 o-Xylene	106	8.158	8.158	(1.058)	10011	0.20000	0.2108
	59 Styrene	104	8.198	8.198	(1.063)	15093	0.20000	0.2020(M)
	60 Isopropyl Benzene	105	8.380	8.380	(0.891)	26264	0.20000	0.2096
	61 Bromoform	173	8.215	8.215	(0.874)	1427	0.20000	0.1944
	62 1,1,2,2-Tetrachloroethane	83	8.733	8.733	(0.929)	2372	0.20000	0.2204(M)
$	63 4-Bromofluorobenzene	95	8.585	8.585	(1.113)	291400	10.0000	10.303
	64 1,2,3-Trichloropropane	110	8.835	8.835	(0.939)	647	0.20000	0.1990(Q)
	65 Trans-1,4-Dichloro 2-Butene	53	8.863	8.863	(0.942)	201	0.20000	0.1010(QM)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	66 N-Propyl Benzene	91	8.676	8.681	(0.923)	30759	0.20000	0.2149
	67 Bromobenzene	156	8.659	8.664	(0.921)	5013	0.20000	0.2089
	68 1,3,5-Trimethyl Benzene	105	8.824	8.824	(0.938)	19868	0.20000	0.2146
	69 2-Chloro Toluene	91	8.789	8.795	(0.935)	19607	0.20000	0.2181
	70 4-Chloro Toluene	91	8.915	8.915	(0.948)	16811	0.20000	0.2159
	71 T-Butyl Benzene	119	9.057	9.057	(0.963)	18053	0.20000	0.2307
	72 1,2,4-Trimethylbenzene	105	9.108	9.108	(0.969)	19186	0.20000	0.2190
	73 S-Butyl Benzene	105	9.188	9.188	(0.977)	26533	0.20000	0.2306
	74 4-Isopropyl Toluene	119	9.296	9.296	(0.988)	20053	0.20000	0.2286
	75 1,3-Dichlorobenzene	146	9.353	9.353	(0.995)	9041	0.20000	0.2246
*	76 d4-1,4-Dichlorobenzene	152	9.404	9.410	(1.000)	237424	10.0000	
	77 1,4-Dichlorobenzene	146	9.415	9.421	(1.001)	8717	0.20000	0.2270(Q)
	78 N-Butyl Benzene	91	9.615	9.620	(1.022)	17775	0.20000	0.2371
$	79 d4-1,2-Dichlorobenzene	152	9.734	9.734	(1.035)	188448	10.0000	10.206
	80 1,2-Dichlorobenzene	146	9.740	9.740	(1.036)	7134	0.20000	0.2356(Q)
	81 1,2-Dibromo 3-Chloropropane	75	10.354	10.355	(1.101)	134	0.20000	0.1396
	82 1,2,4-Trichlorobenzene	180	10.878	10.878	(1.157)	3909	0.20000	0.2648
	83 Hexachloro 1,3-Butadiene	225	10.855	10.855	(1.154)	3480	0.20000	0.3961
	84 Naphthalene	128	11.140	11.140	(1.185)	9628	0.20000	0.4800
	85 1,2,3-Trichlorobenzene	180	11.282	11.282	(1.200)	3495	0.20000	0.3493

QC Flag Legend

[- Target compound detected outside RT window.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: 0020222.d
Lab Smp Id: IC002
Analysis Type: VOA
Quant Type: ISTD
Operator: ar
Method File: /chem1/nt10.i/22FEB10.b/82600122L.m
Misc Info: 10-

Calibration Date: 22-FEB-2010
Calibration Time: 17:11
Client Smp ID: vstd1
Level: LOW
Sample Type: WATER

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
25 Pentafluorobenzen	456228	228114	912456	504659	10.62
35 1,4-Difluorobenze	740651	370326	1481302	802559	8.36
52 d5-Chlorobenzene	686240	343120	1372480	697183	1.59
76 d4-1,4-Dichlorobe	249963	124982	499926	237424	-5.02

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
25 Pentafluorobenzen	5.27	4.77	5.77	5.27	-0.11
35 1,4-Difluorobenze	5.66	5.16	6.16	5.65	-0.10
52 d5-Chlorobenzene	7.72	7.22	8.22	7.71	-0.07
76 d4-1,4-Dichlorobe	9.41	8.91	9.91	9.40	-0.06

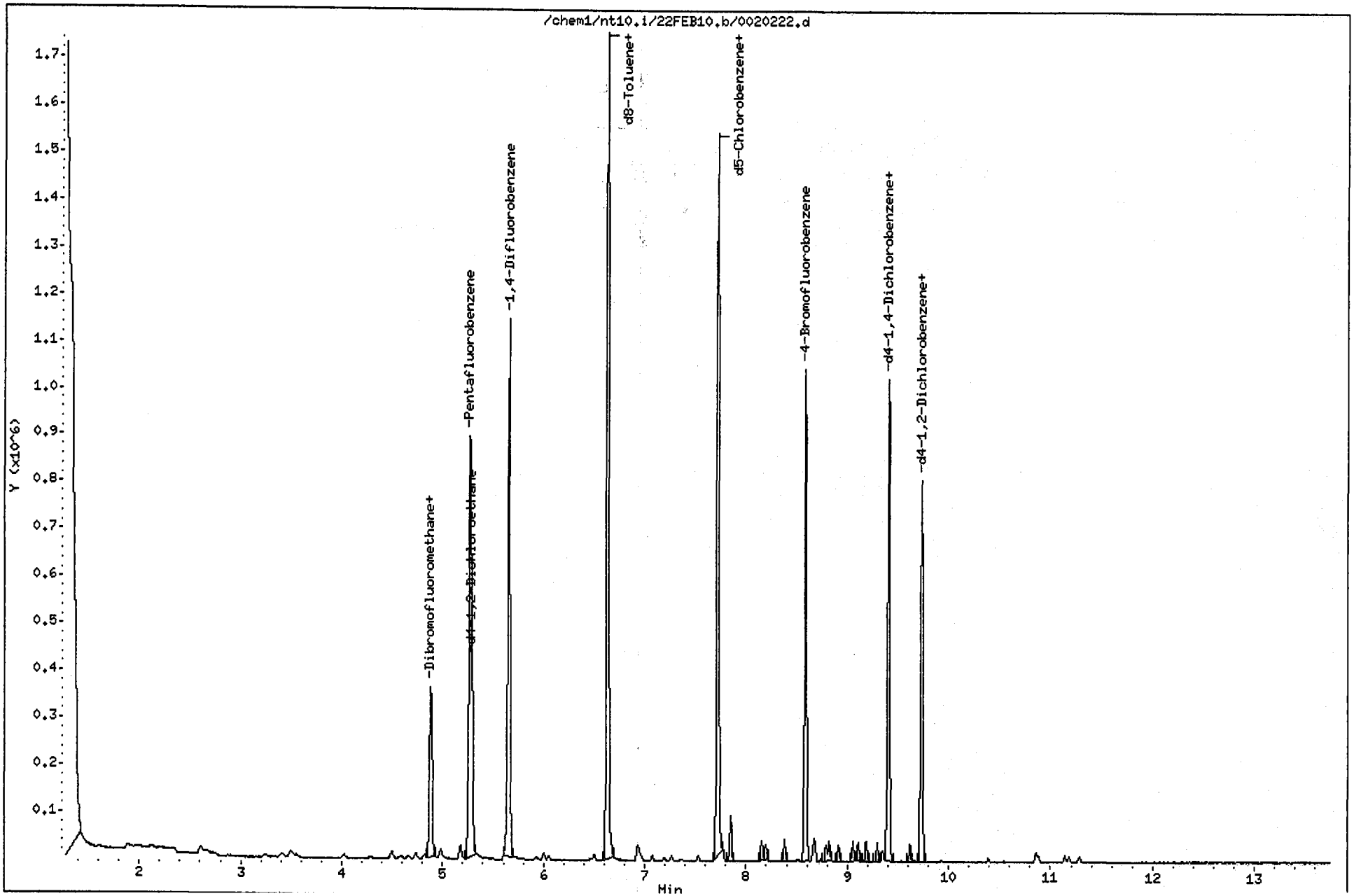
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem1/nt10.i/22FEB10.b/0020222.d
Date : 22-FEB-2010 14:42
Client ID: vstd1
Sample Info: IC002,10,10,0

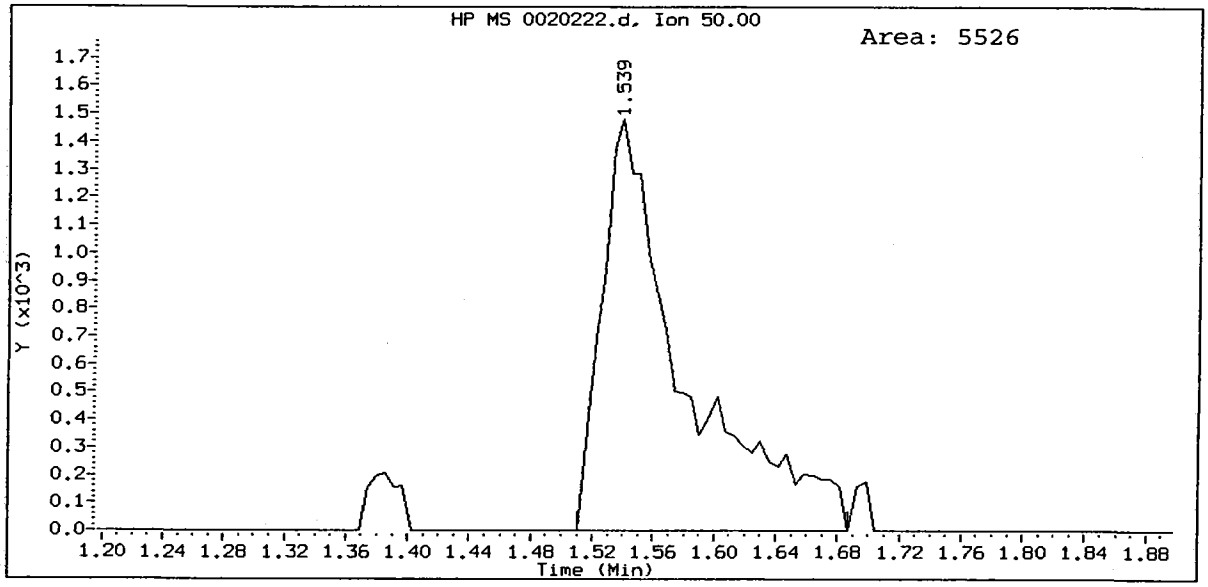
Column phase: RTX502.2

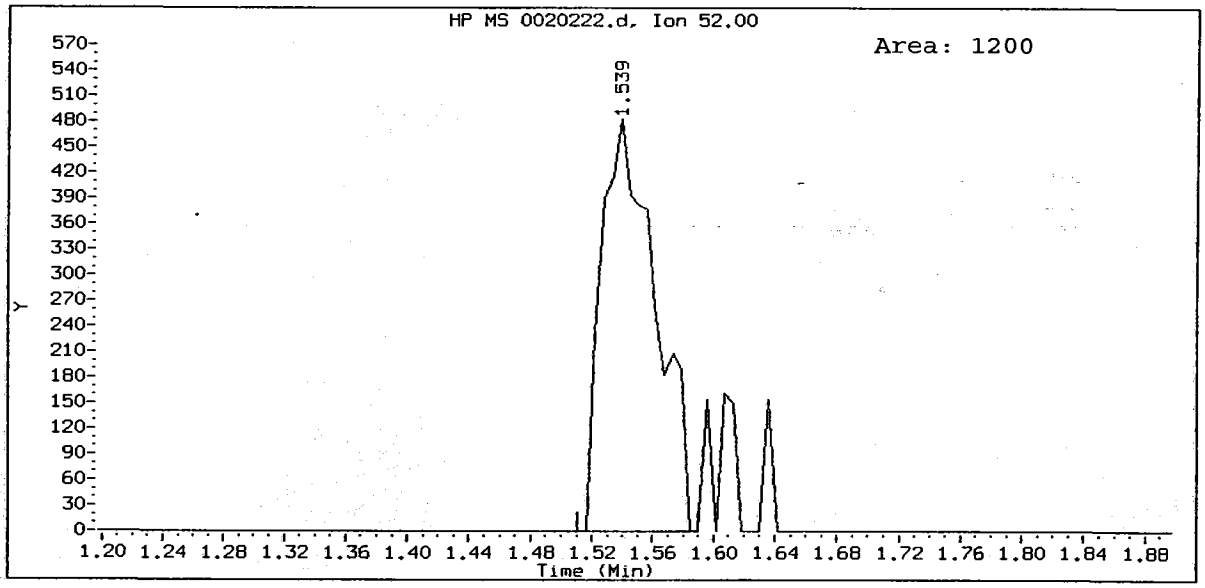
Instrument: nt10.i

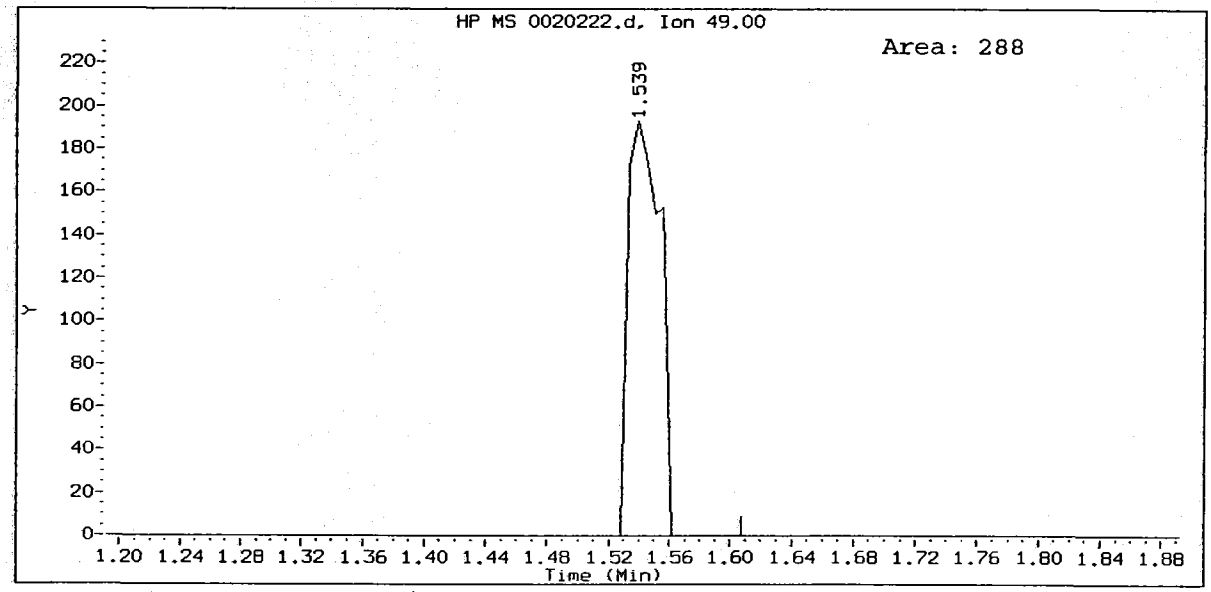
Operator: ar
Column diameter: 0.18



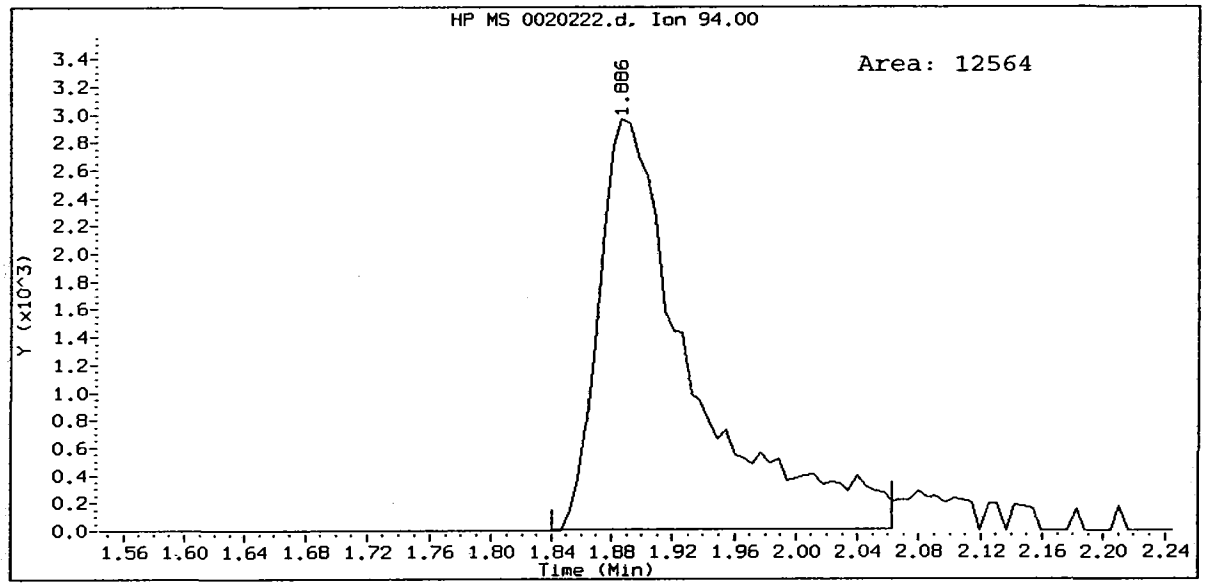
IC002, /chem1/nt10.i/22FEB10.b/0020222.d
Chloromethane Amount: 0.29

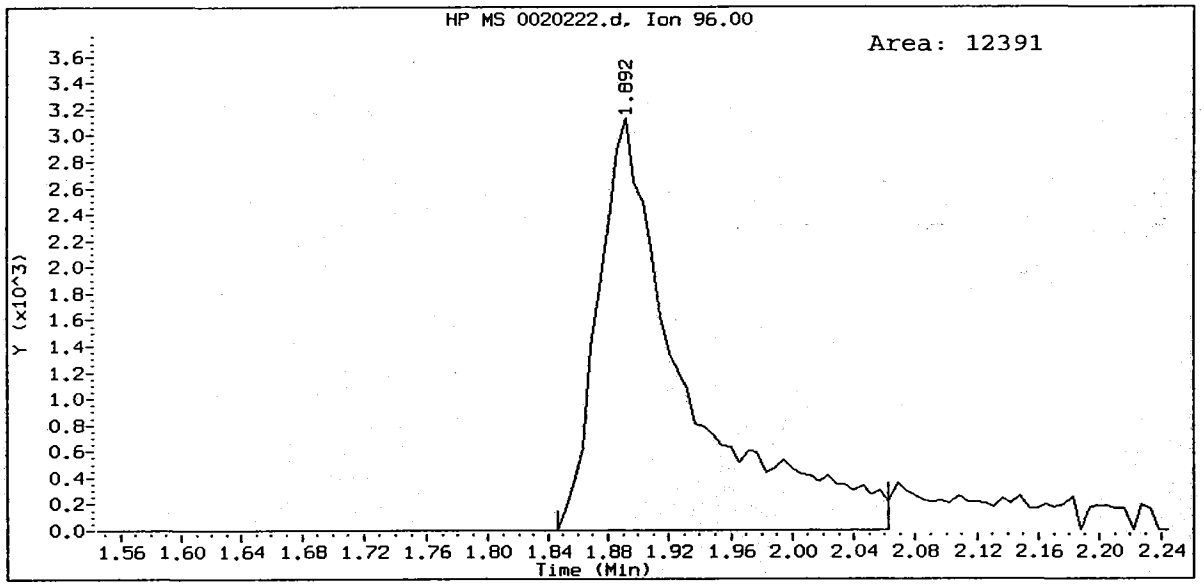


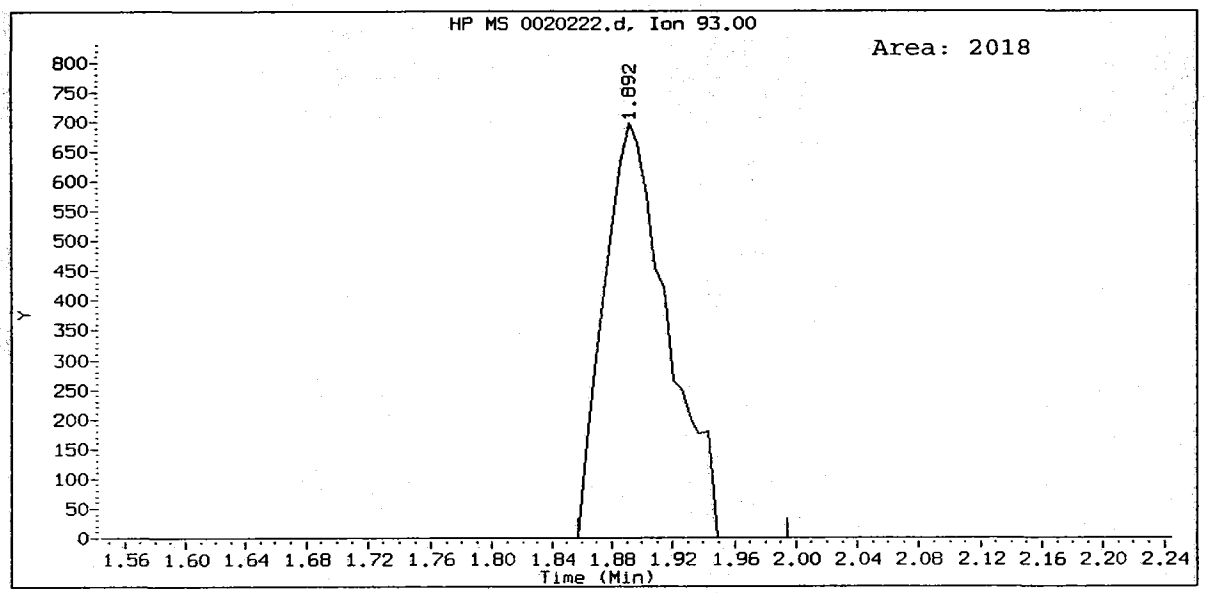




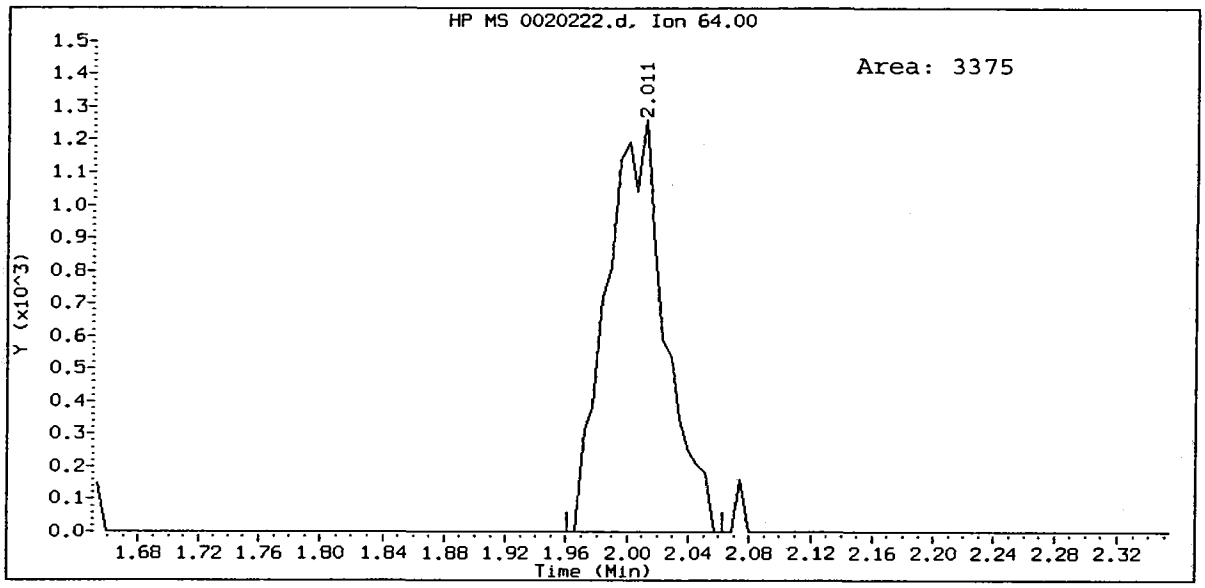
IC002, /chem1/nt10.i/22FEB10.b/0020222.d
Bromomethane Amount: 0.65

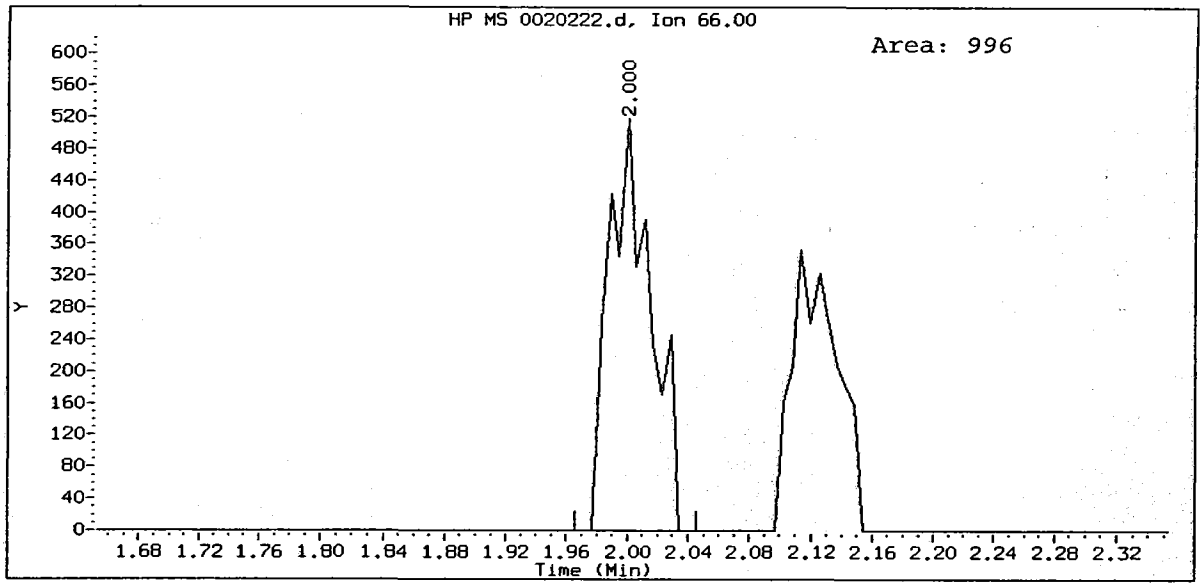


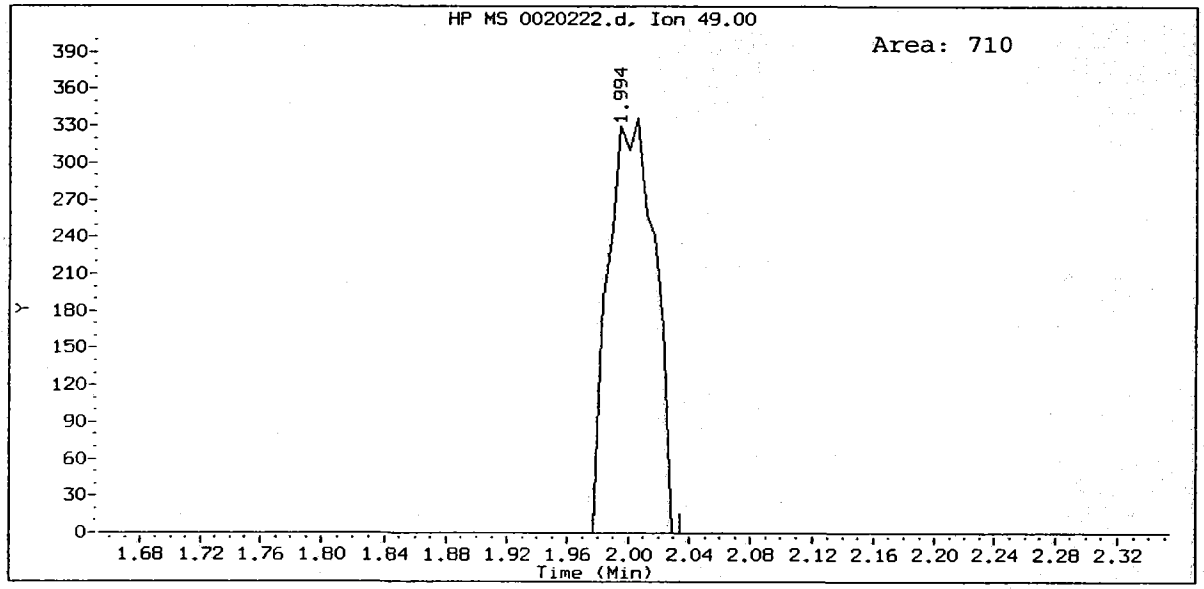




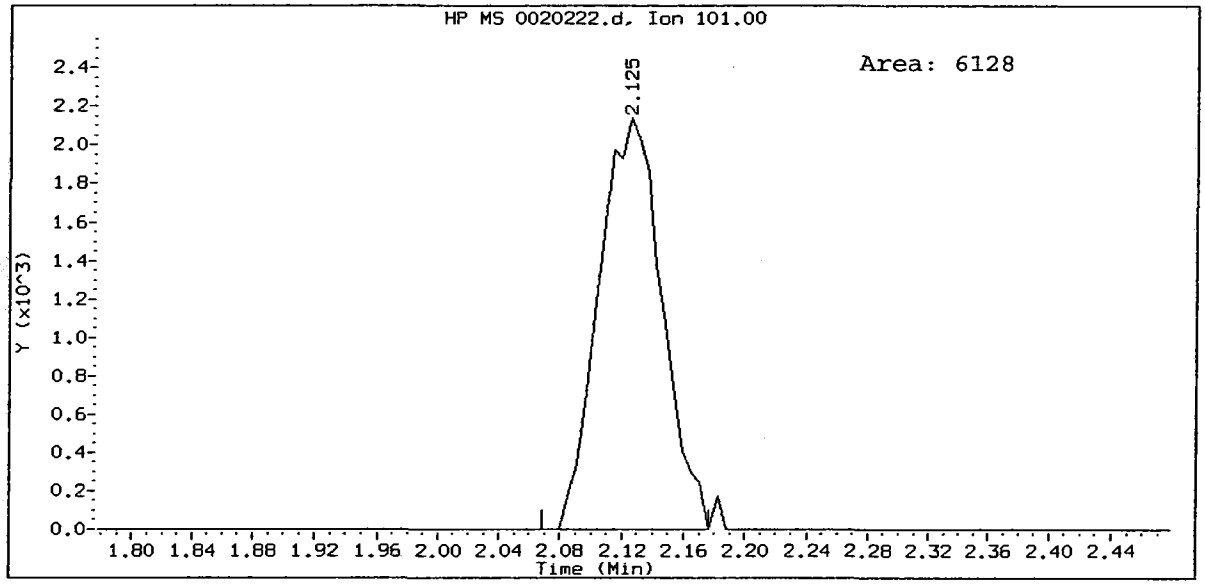
IC002, /chem1/nt10.i/22FEB10.b/0020222.d
Chloroethane Amount: 0.19

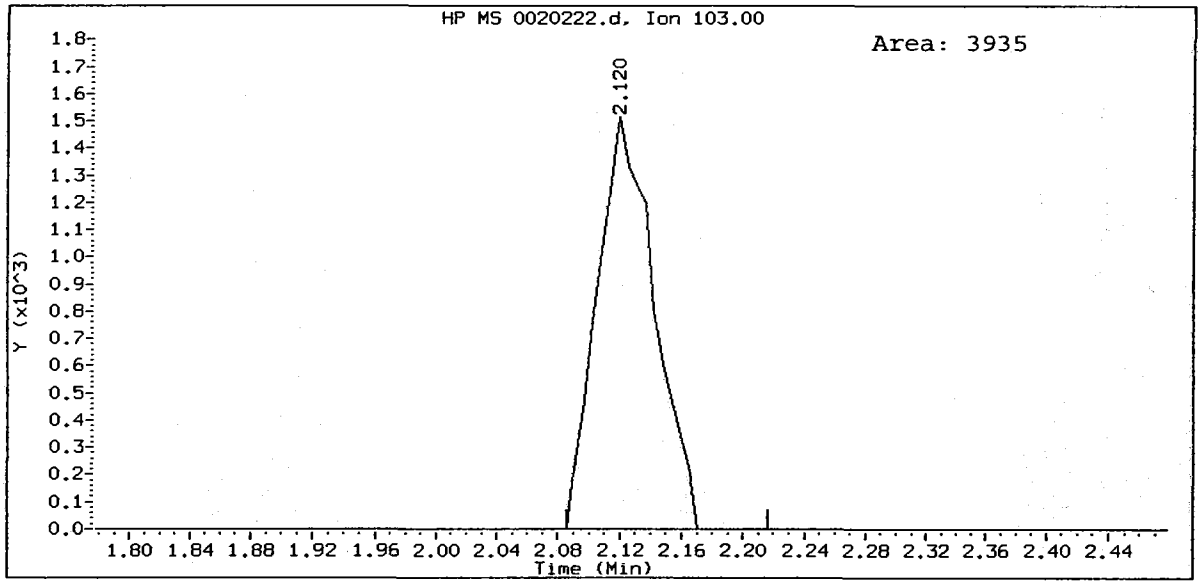


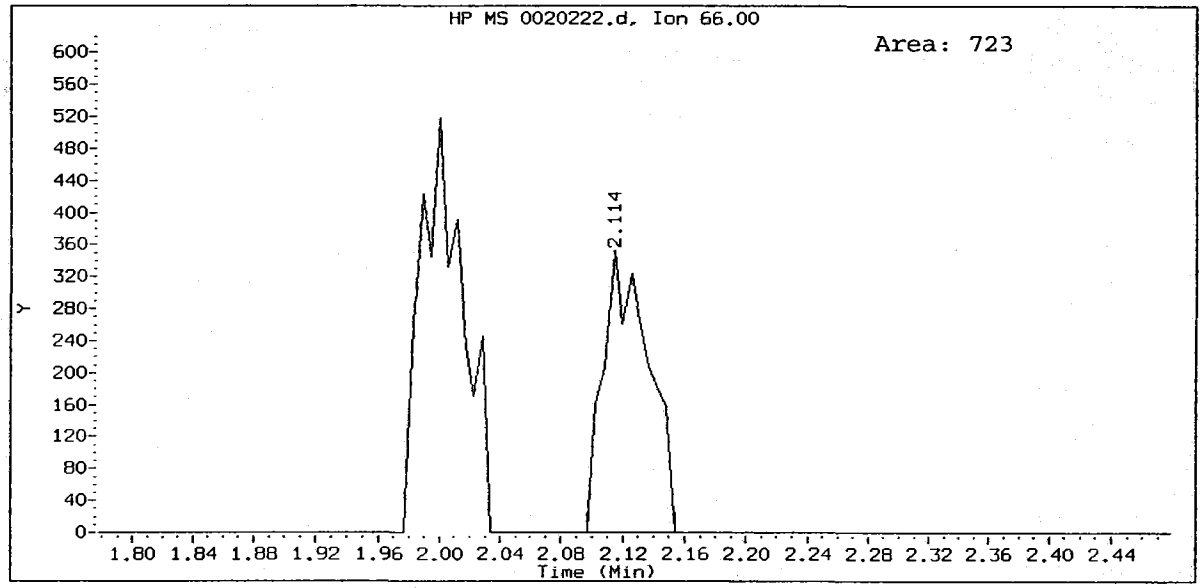




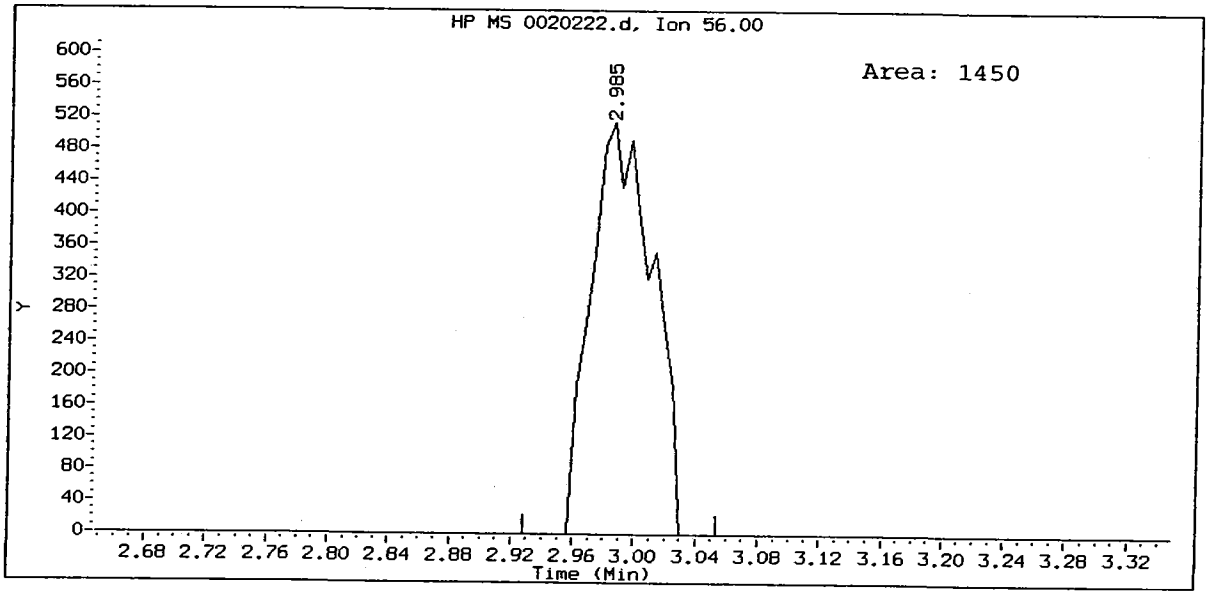
IC002, /chem1/nt10.i/22FEB10.b/0020222.d
Trichlorofluoromethane Amount: 0.19

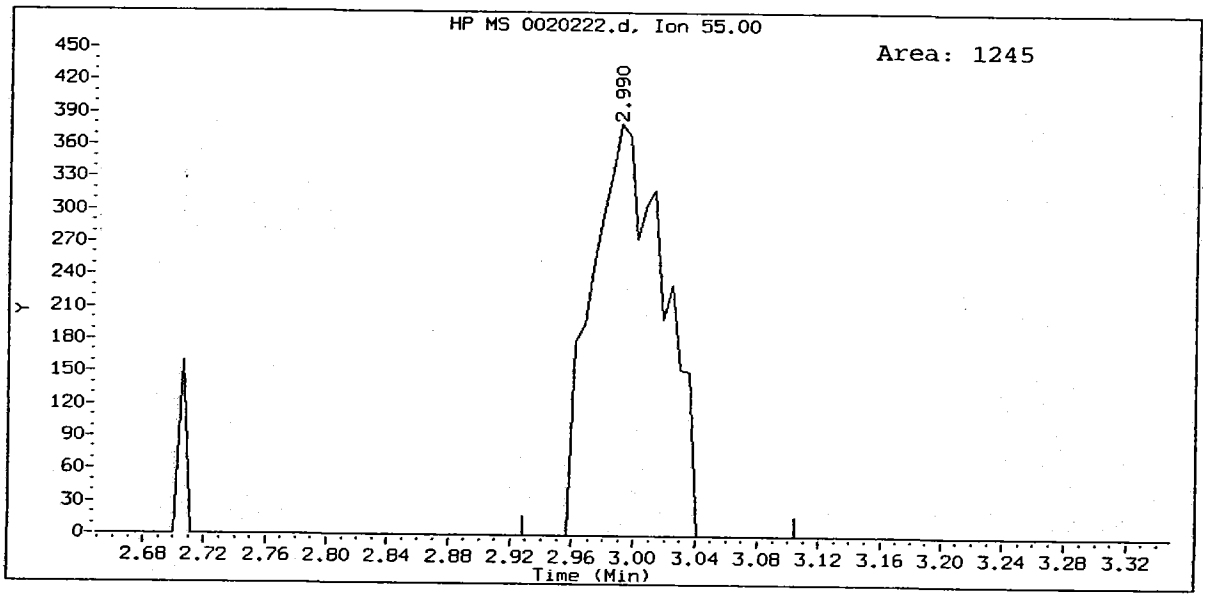




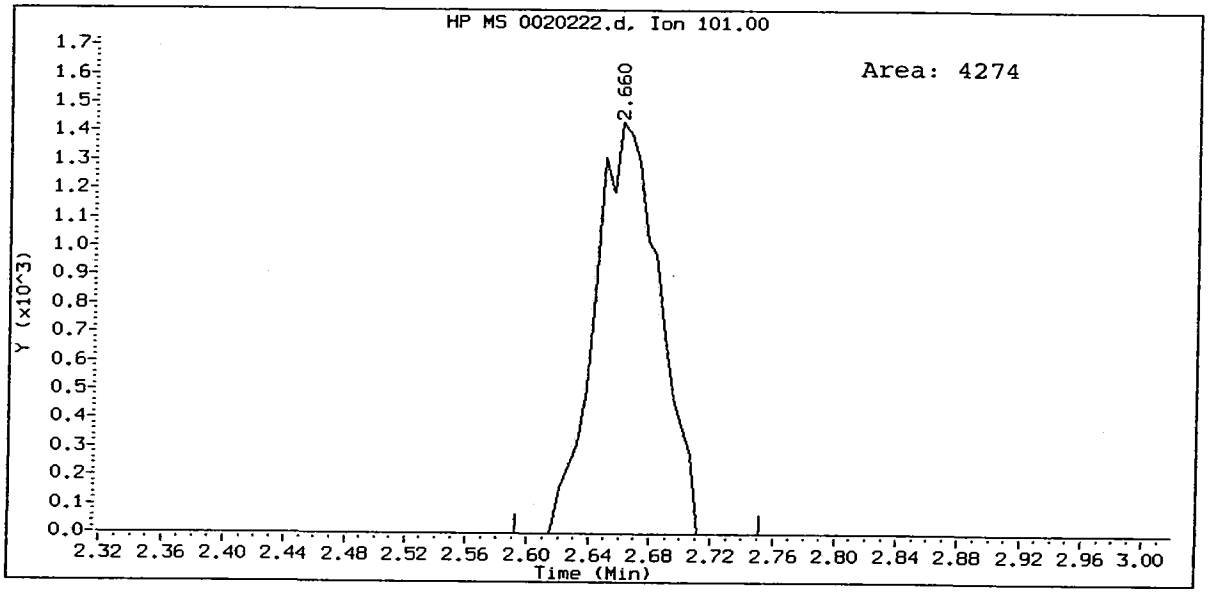


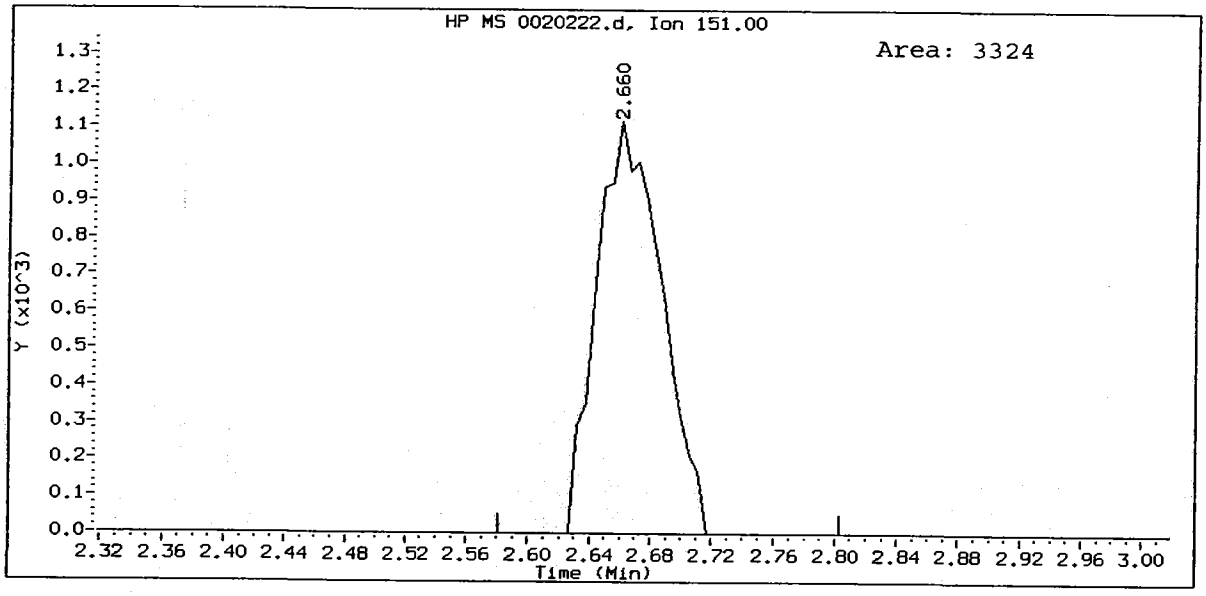
IC002, /chem1/nt10.i/22FEB10.b/0020222.d
Acrolein Amount: 1.00

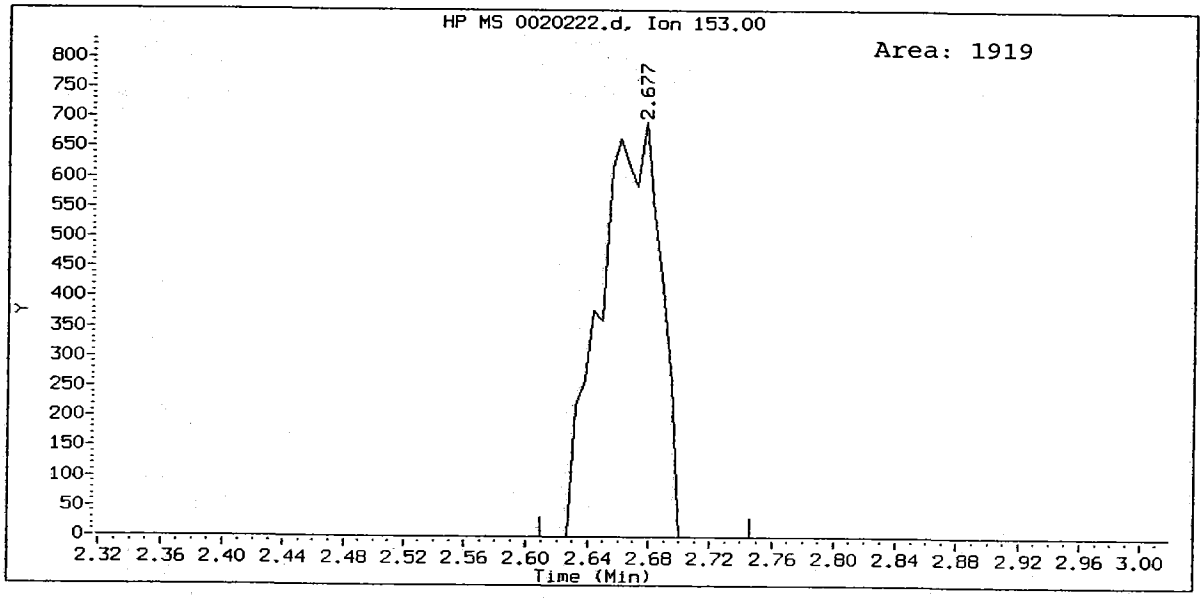




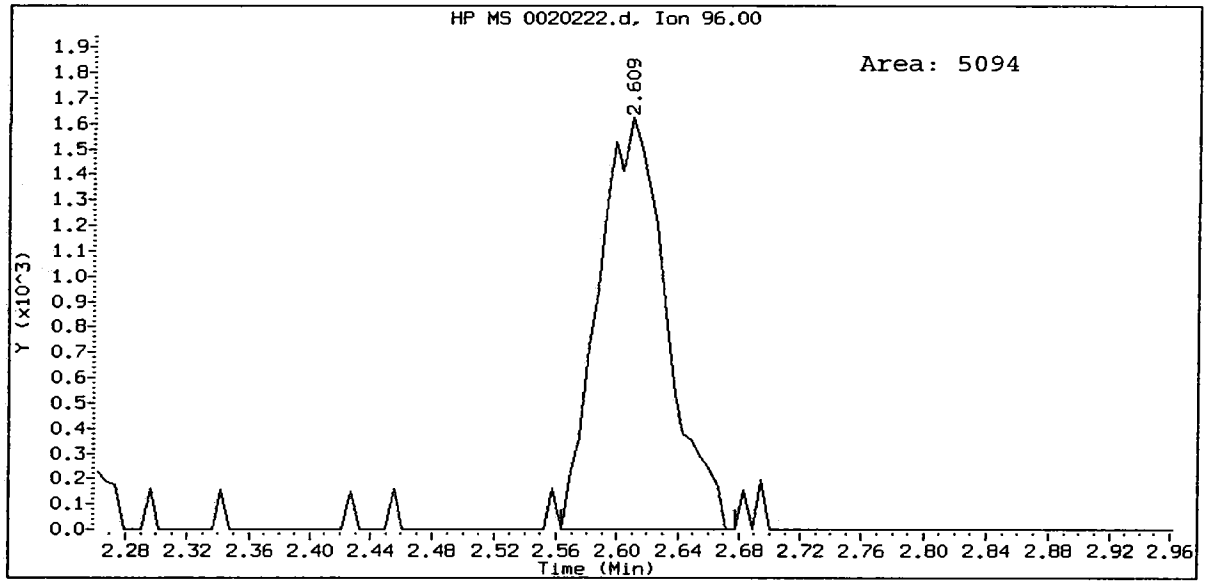
IC002, /chem1/nt10.i/22FEB10.b/0020222.d
112Trichloro122Trifluoroethane Amount: 0.20

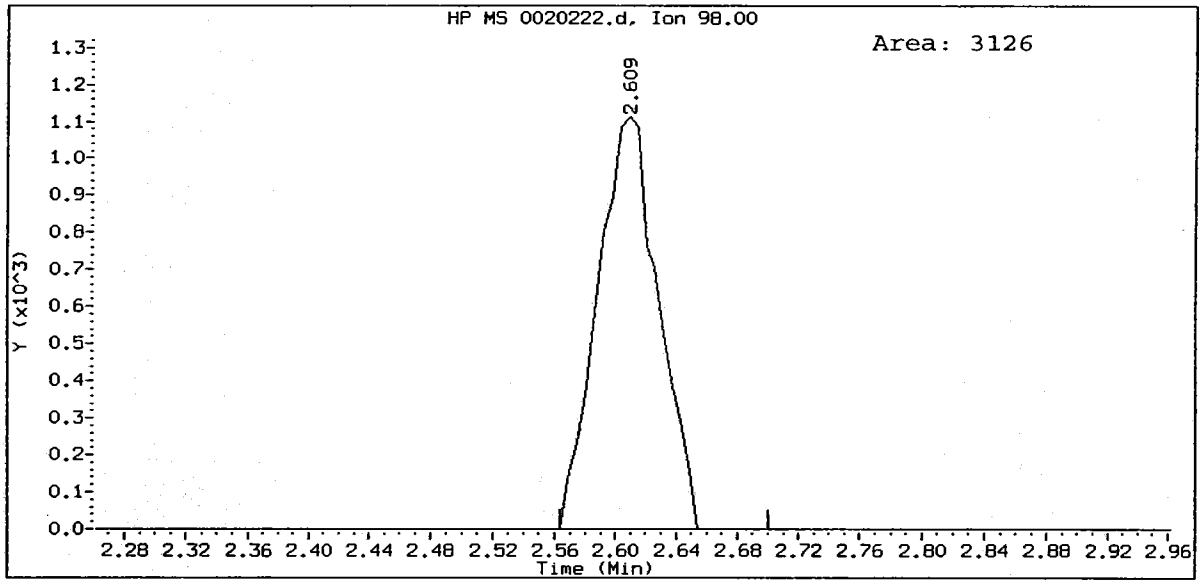


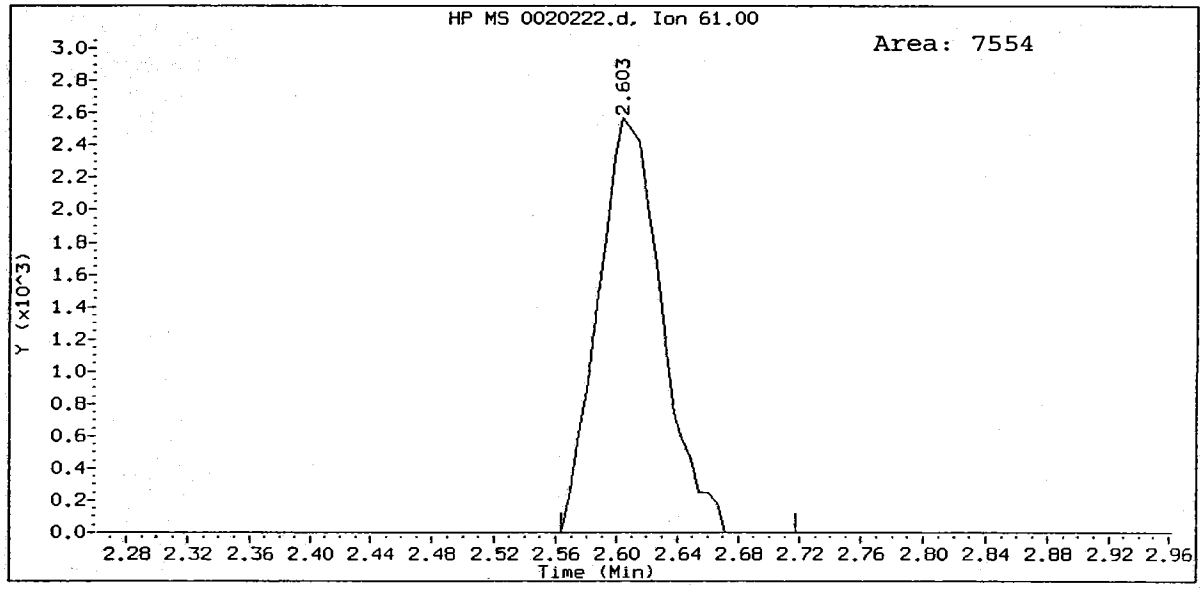




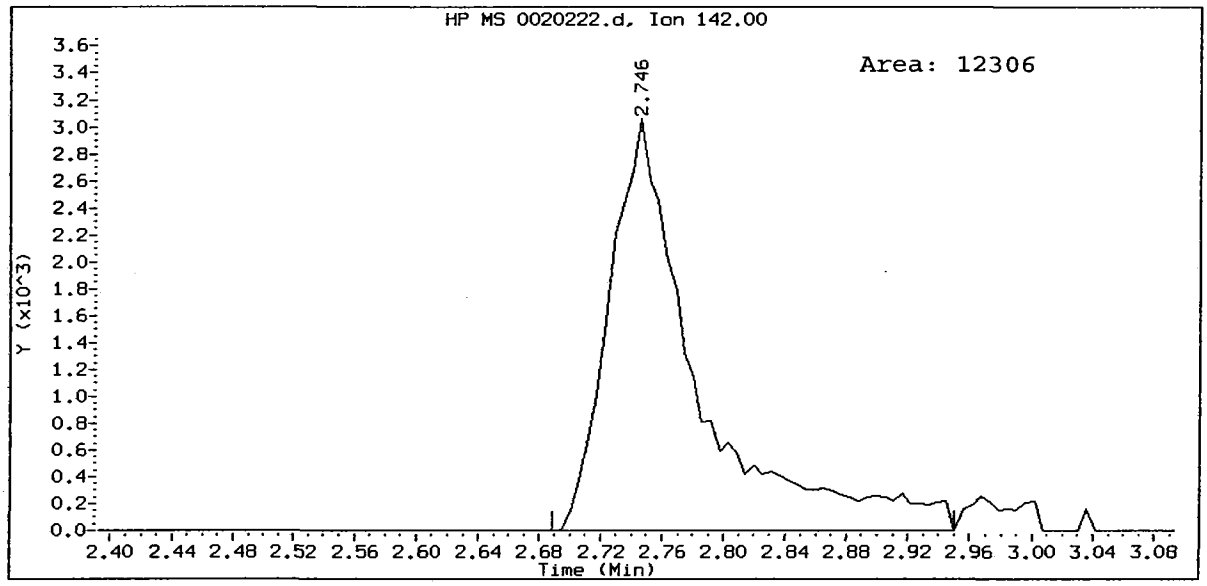
IC002, /chem1/nt10.i/22FEB10.b/0020222.d
1,1-Dichloroethene Amount: 0.20

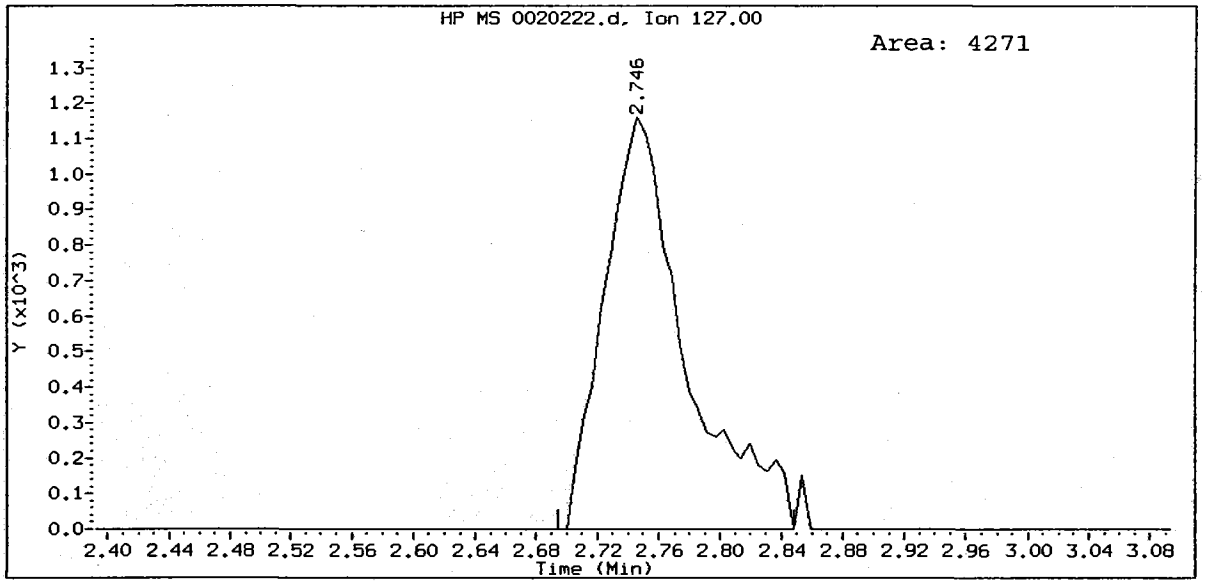


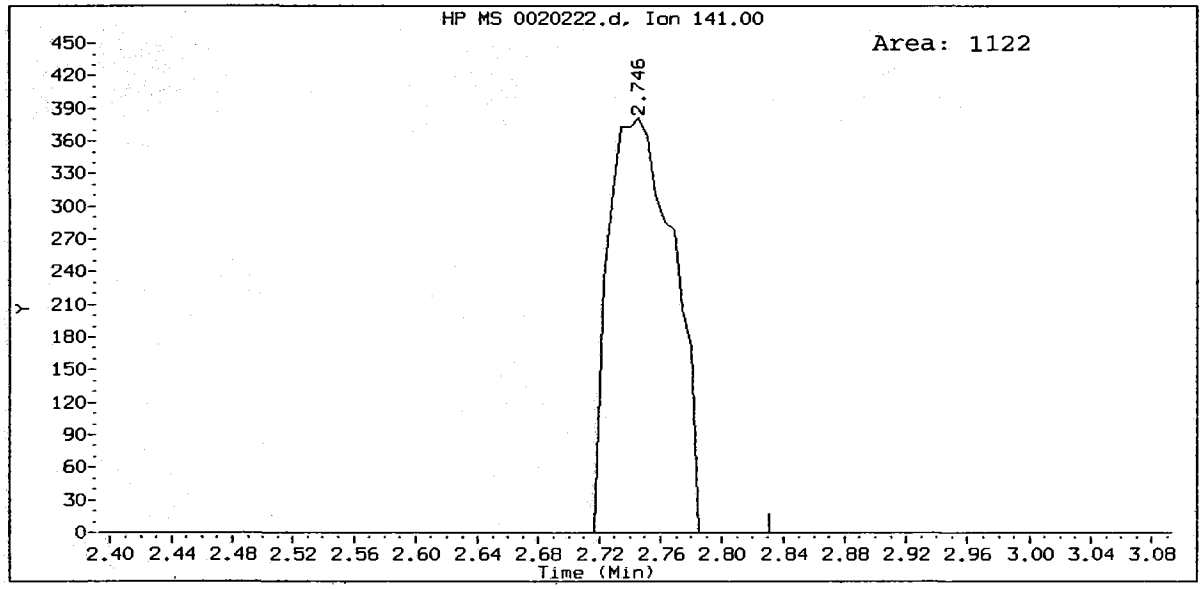




IC002, /chem1/nt10.i/22FEB10.b/0020222.d
Iodomethane Amount: 0.36







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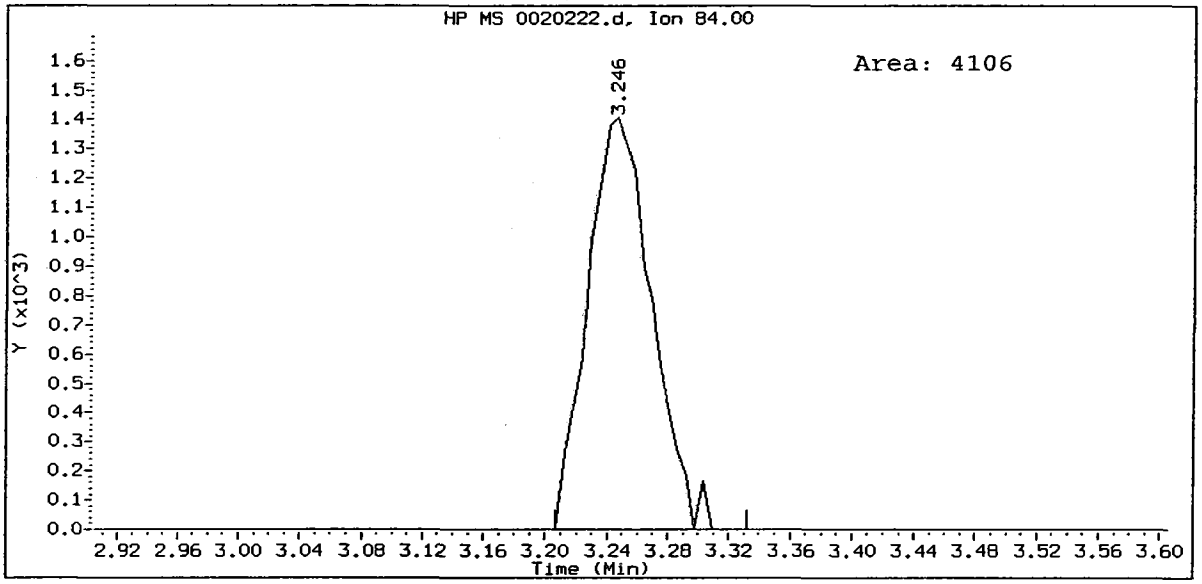
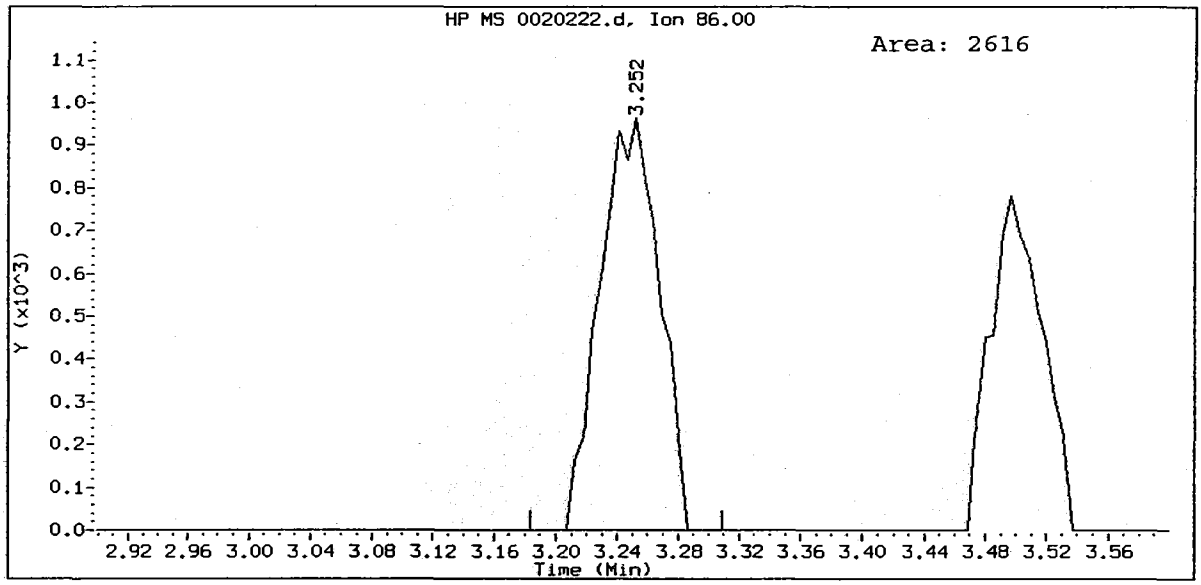
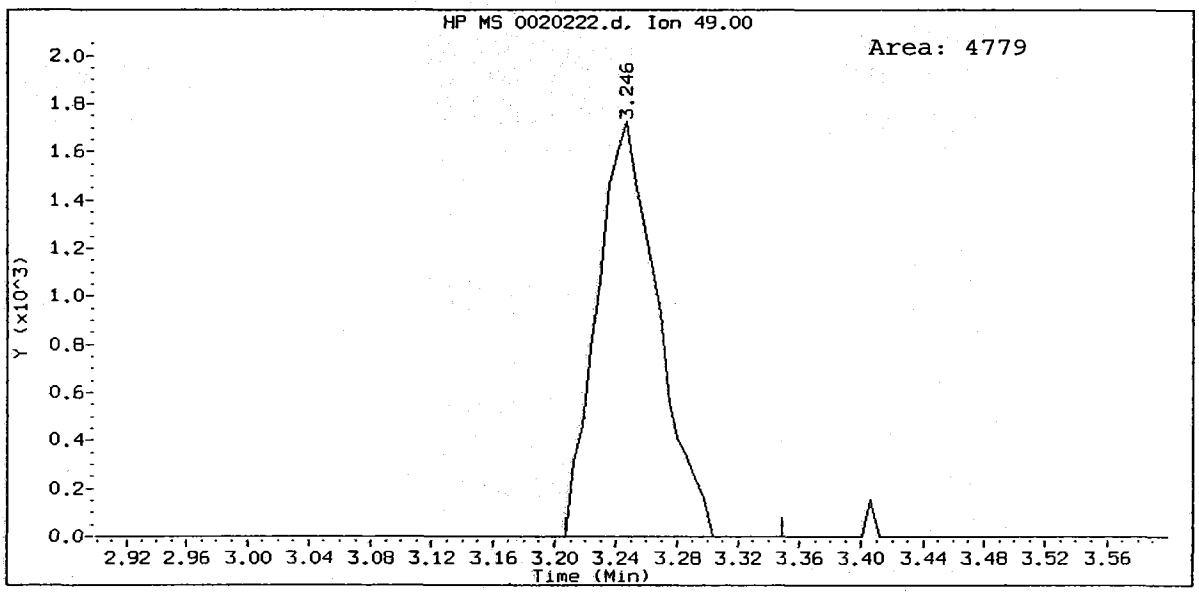
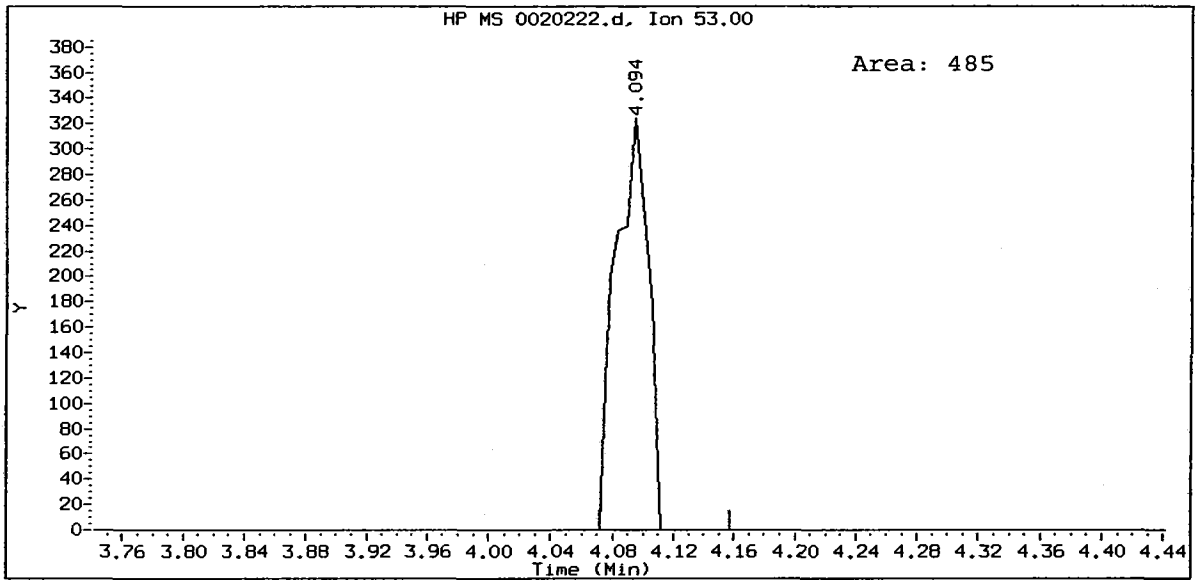
Methylene Chloride Amount: 0.20

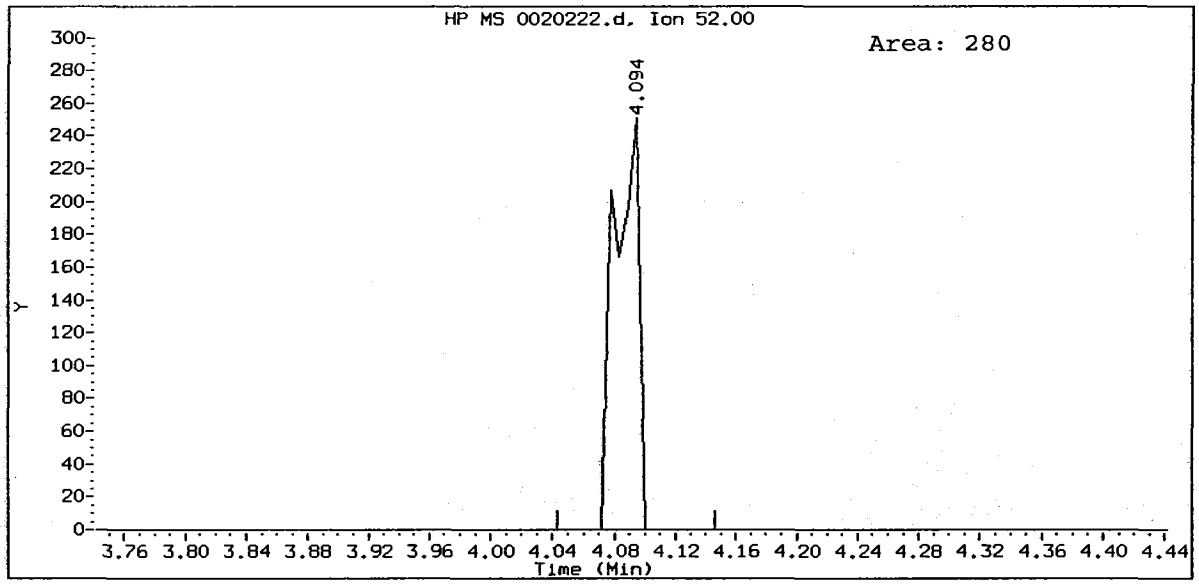


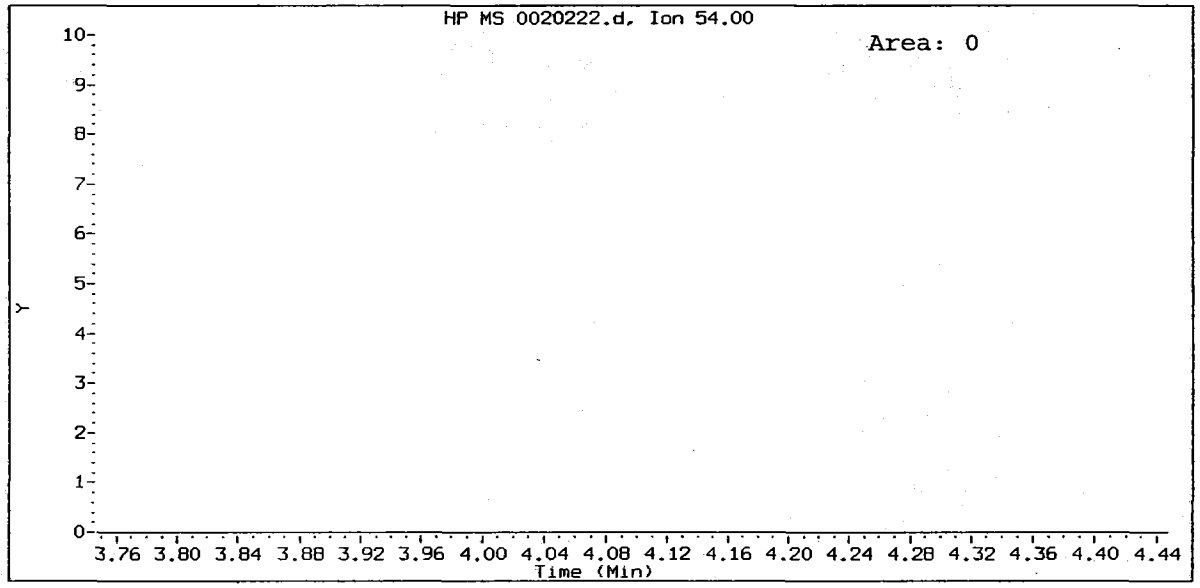




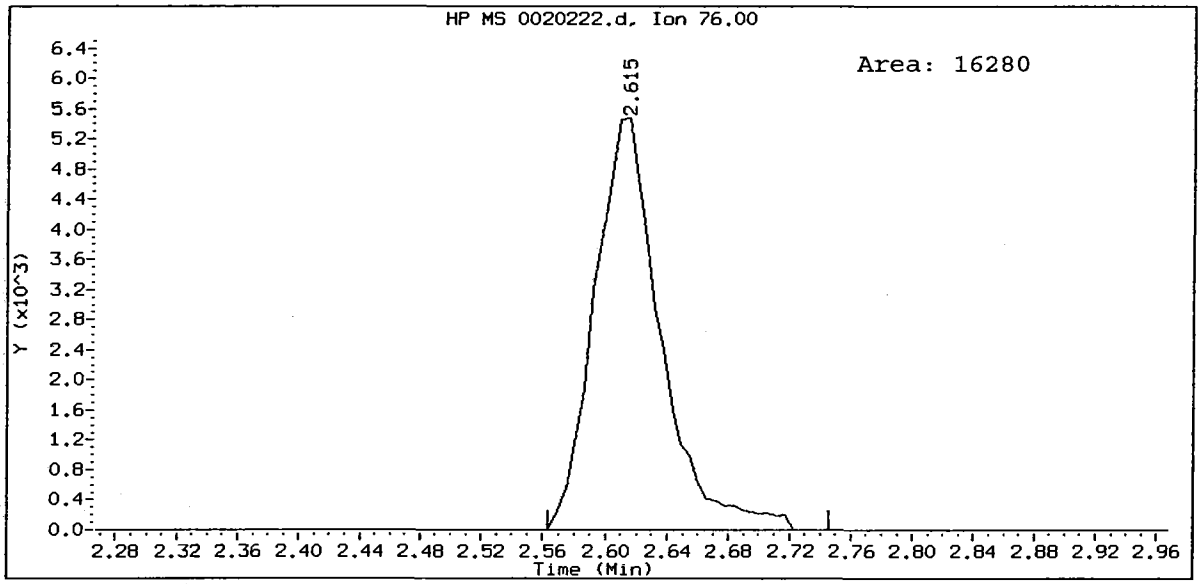
IC002, /chem1/nt10.i/22FEB10.b/0020222.d
Acrylonitrile Amount: 0.16

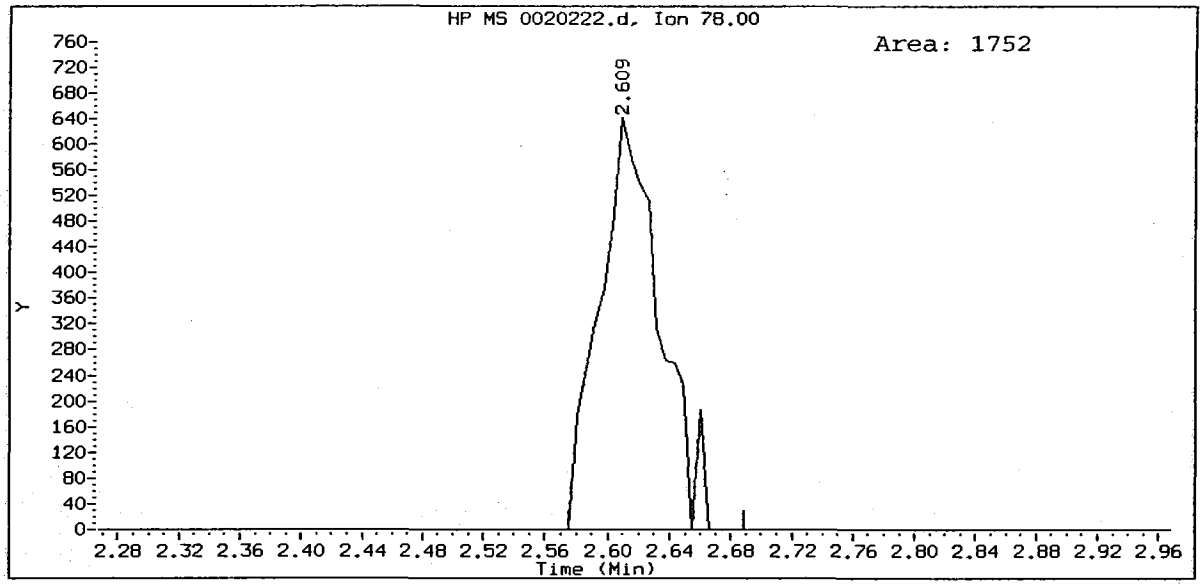


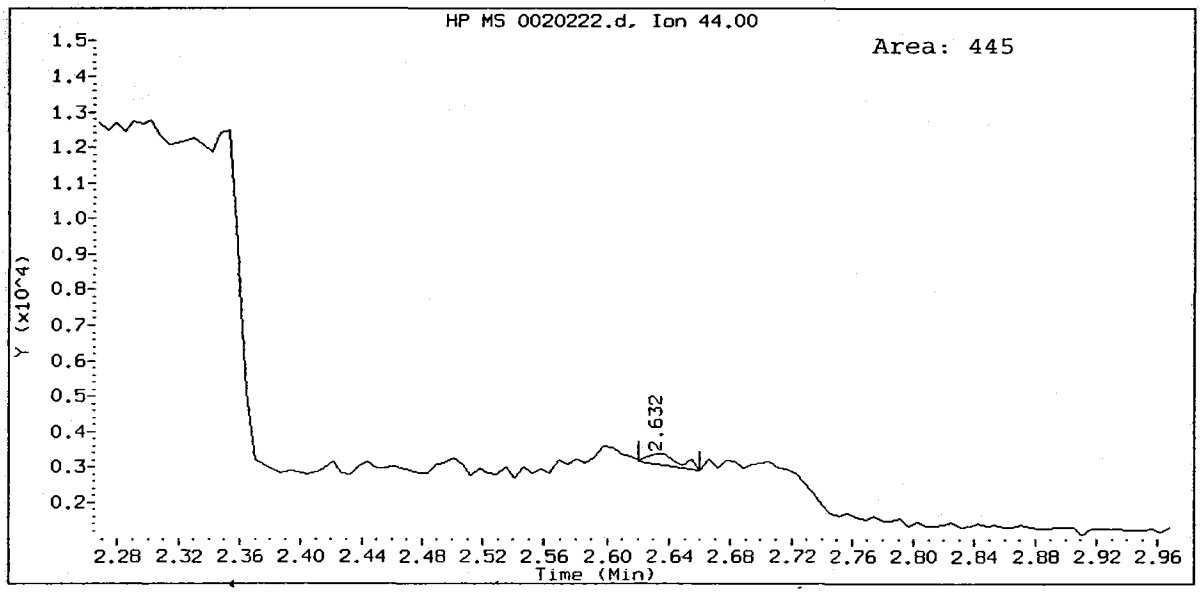




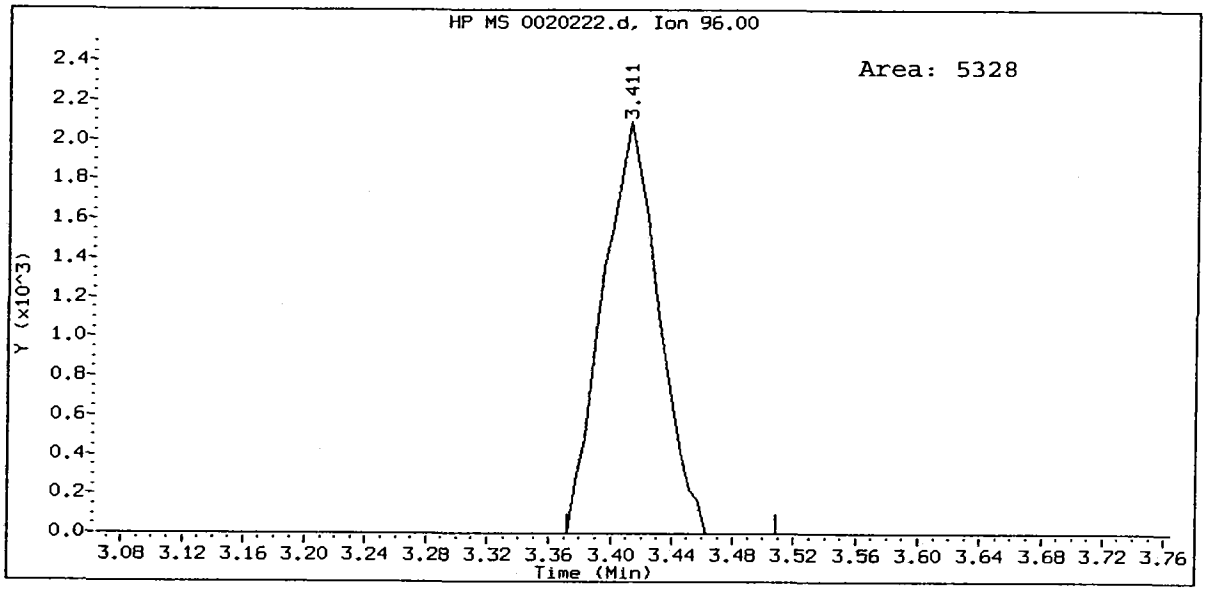
IC002, /chem1/nt10.i/22FEB10.b/0020222.d
Carbon Disulfide Amount: 0.20

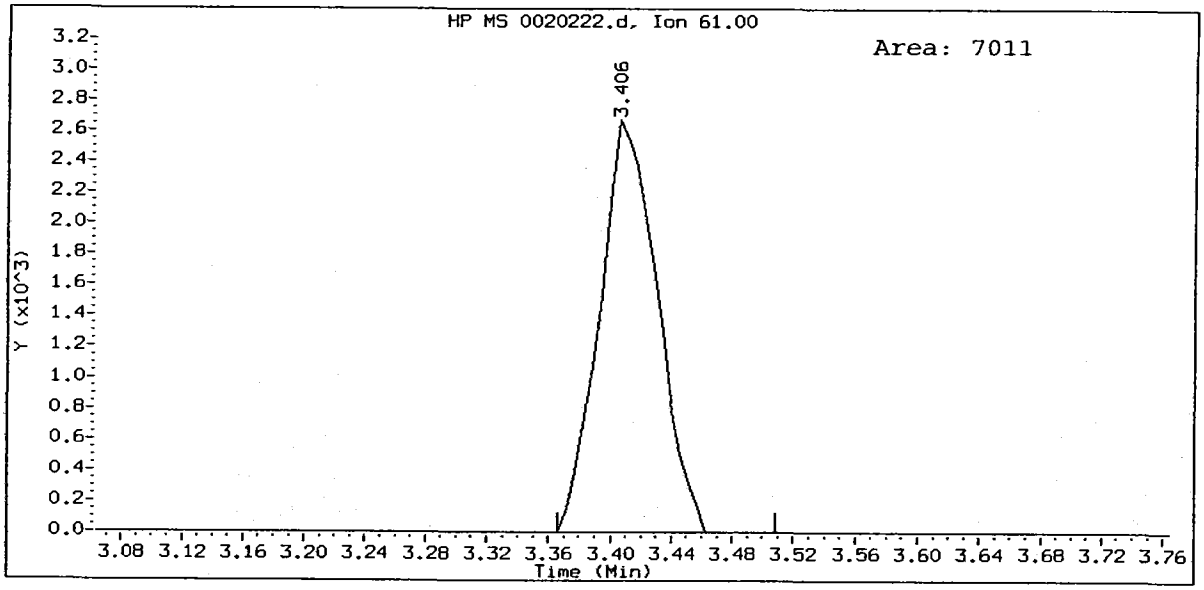


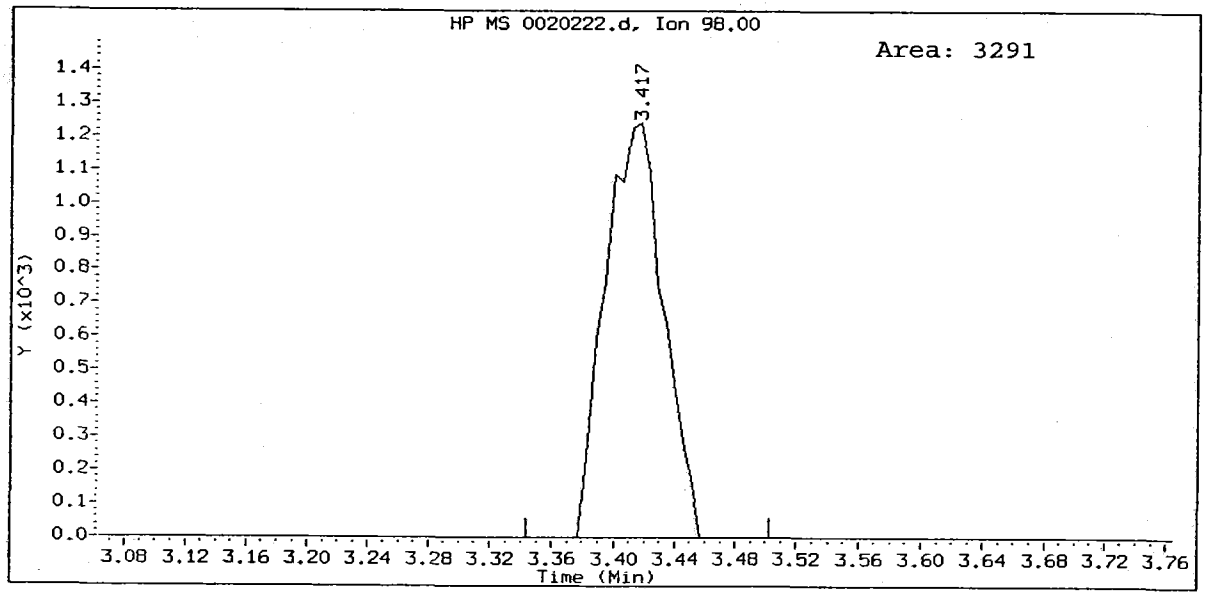




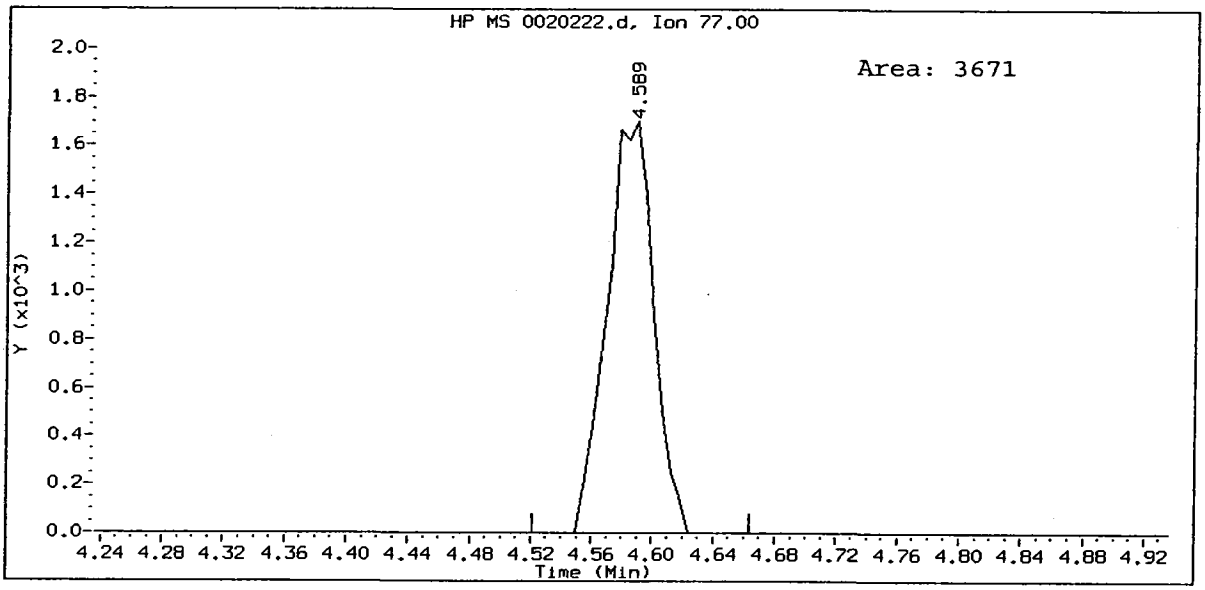
IC002, /chem1/nt10.i/22FEB10.b/0020222.d
Trans-1,2-Dichloroethene Amount: 0.20

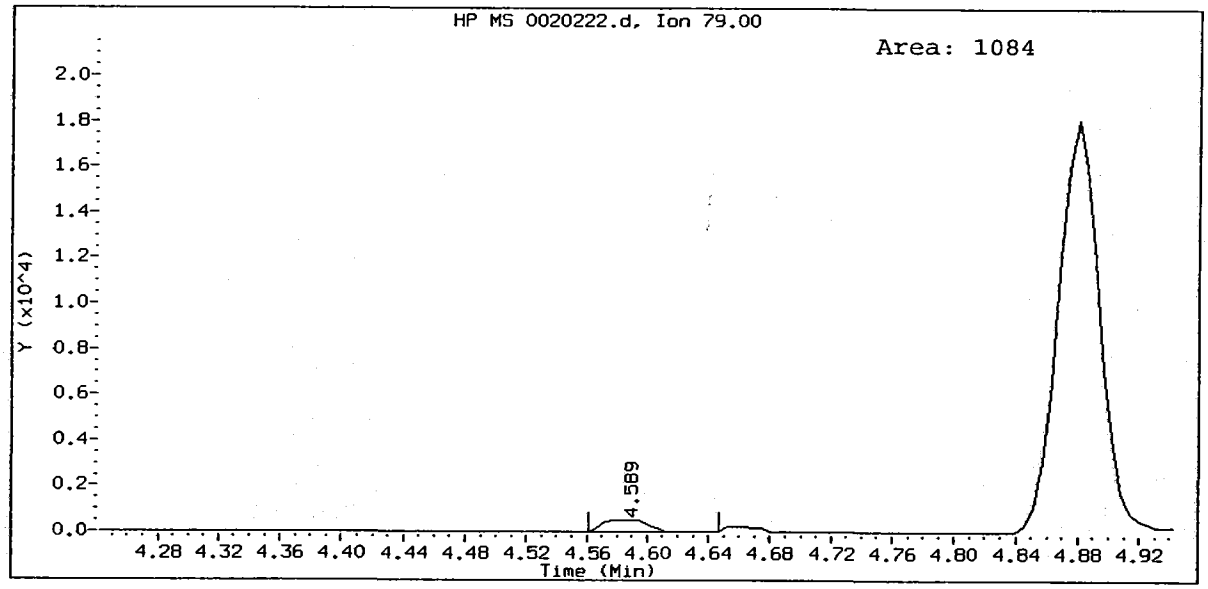


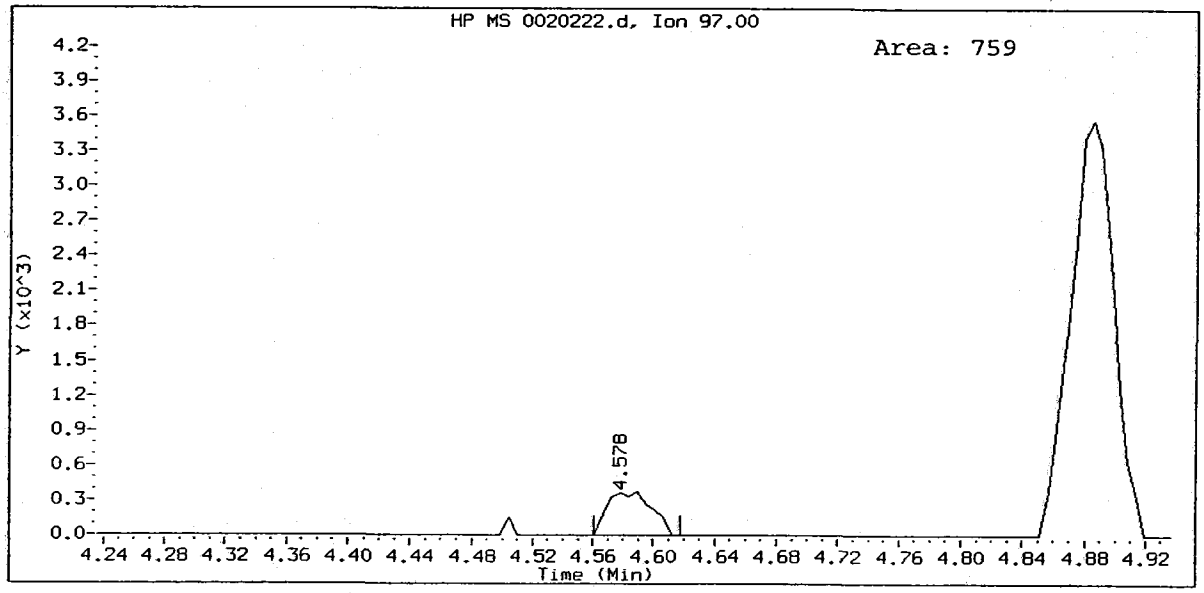




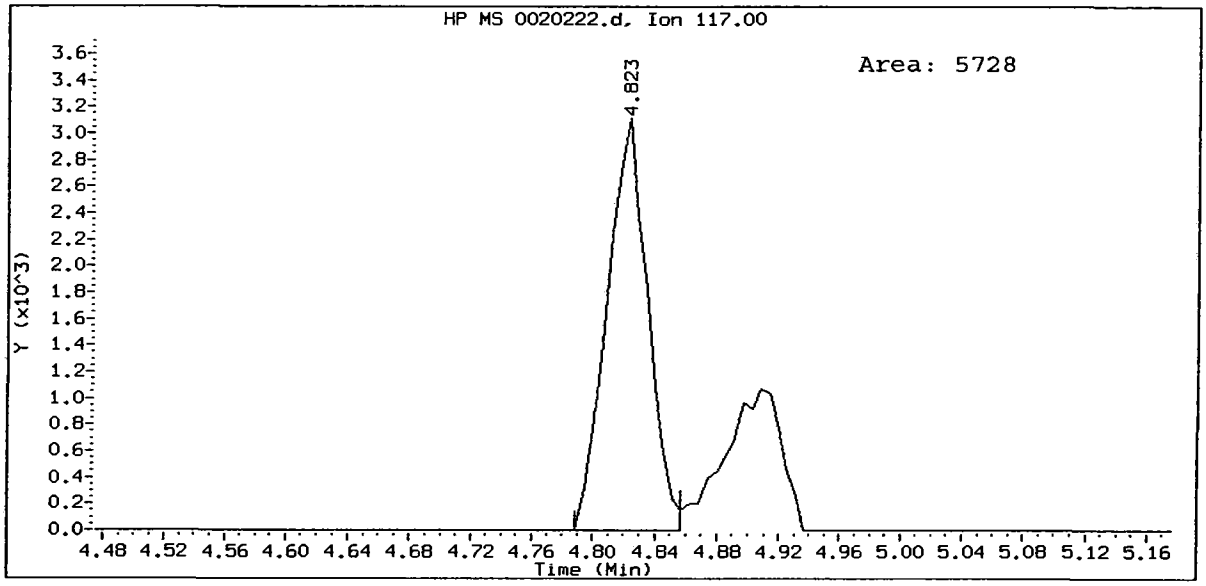
IC002, /chem1/nt10.i/22FEB10.b/0020222.d
2,2-Dichloropropane Amount: 0.21

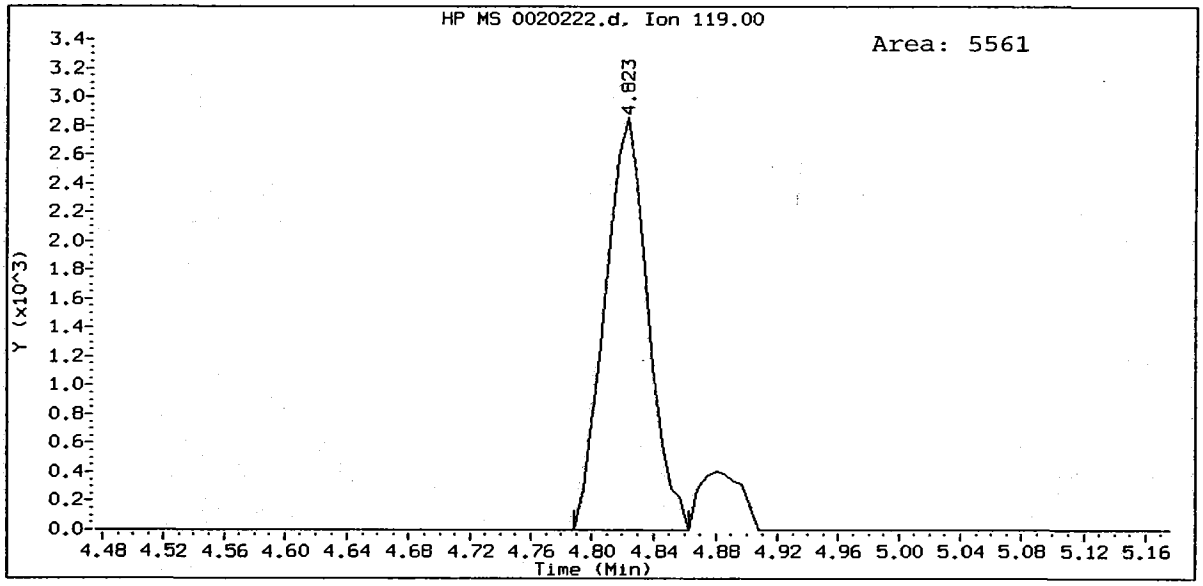


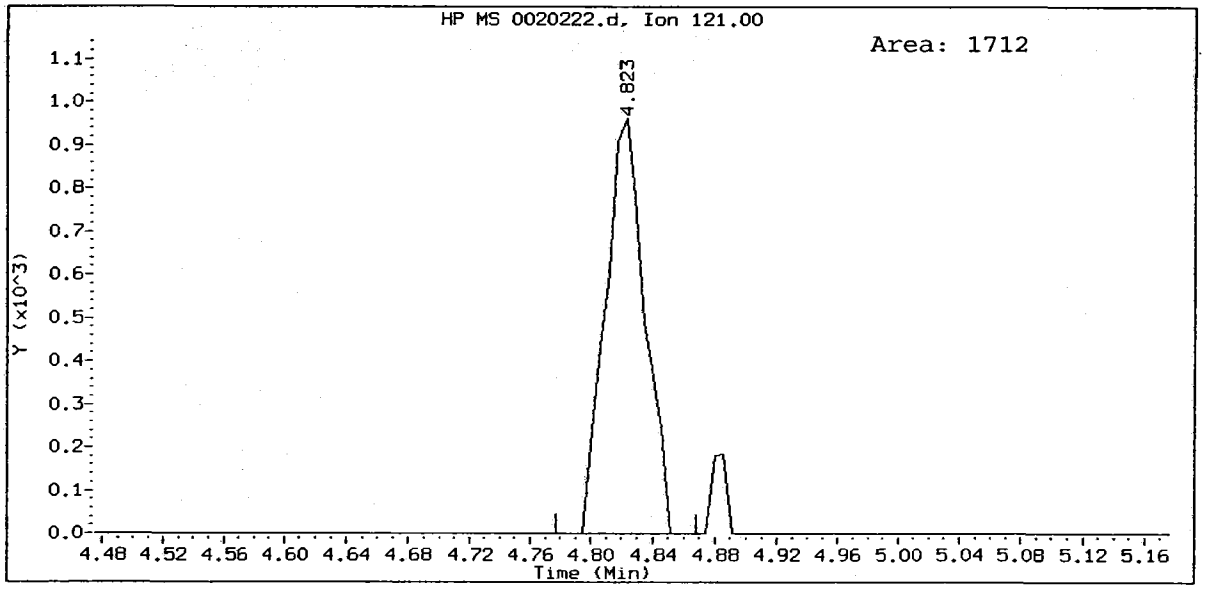




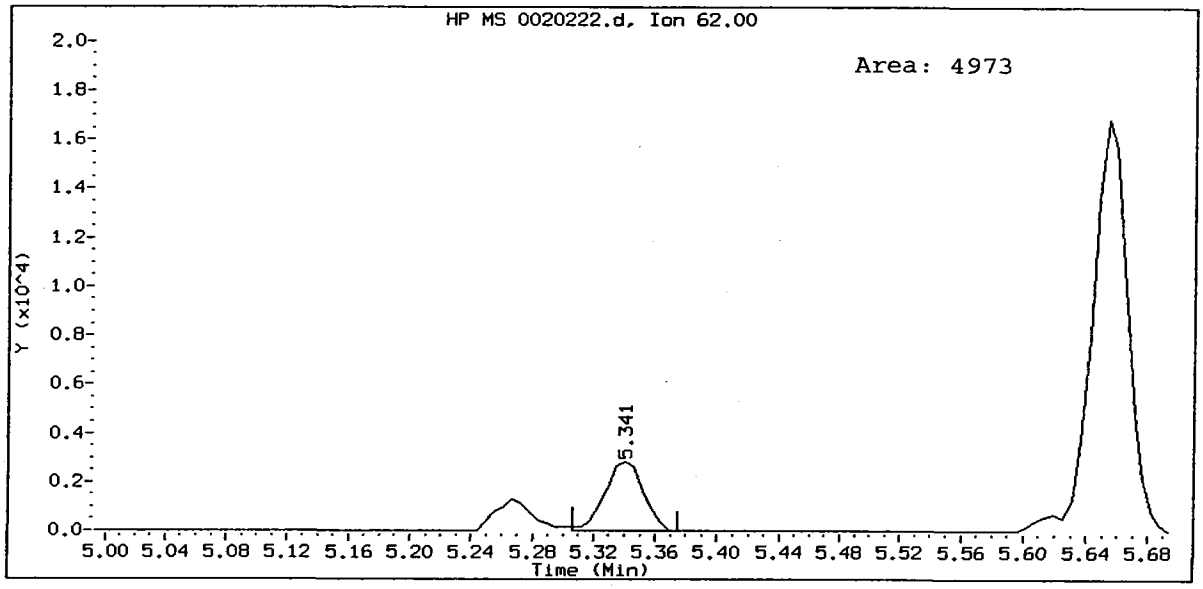
IC002, /chem1/nt10.i/22FEB10.b/0020222.d
Carbon Tetrachloride Amount: 0.20

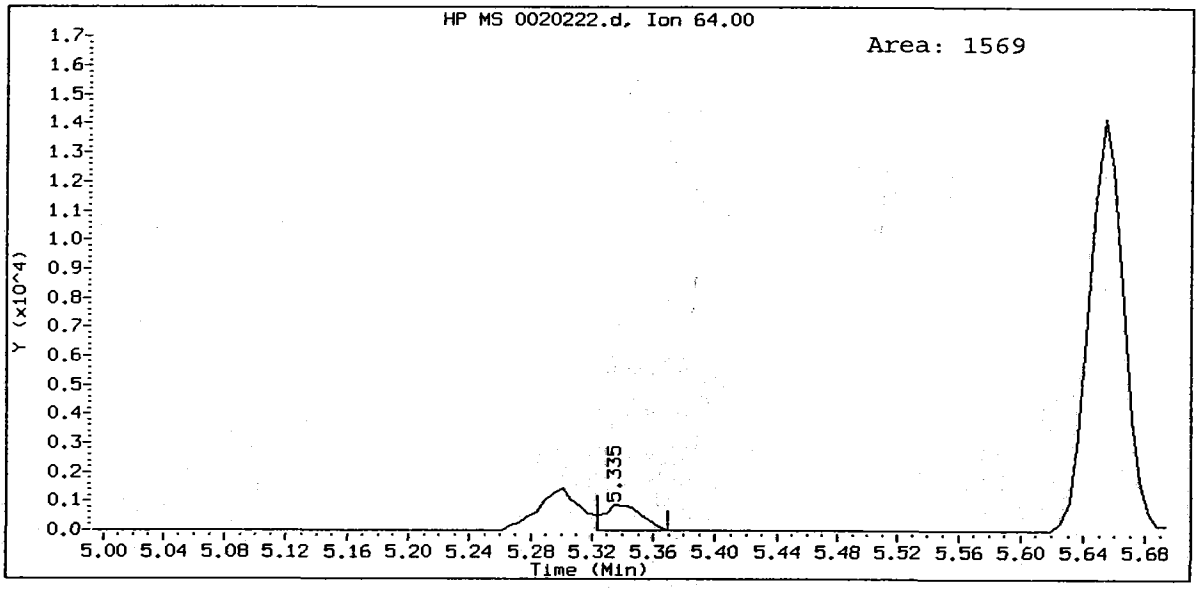


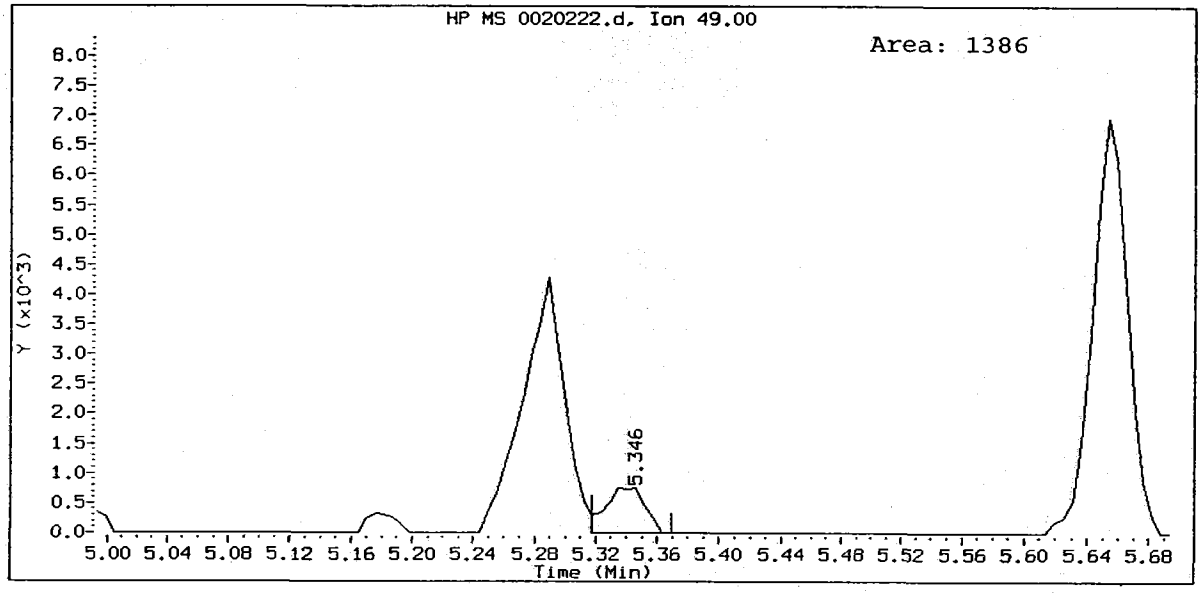




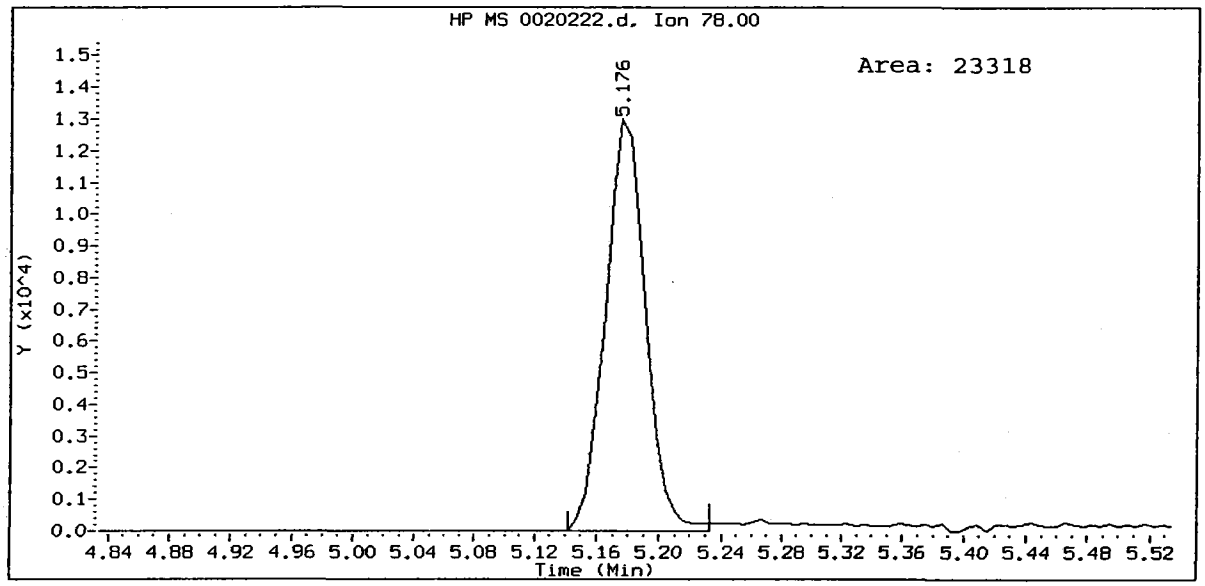
IC002, /chem1/nt10.i/22FEB10.b/0020222.d
1,2-Dichloroethane Amount: 0.21

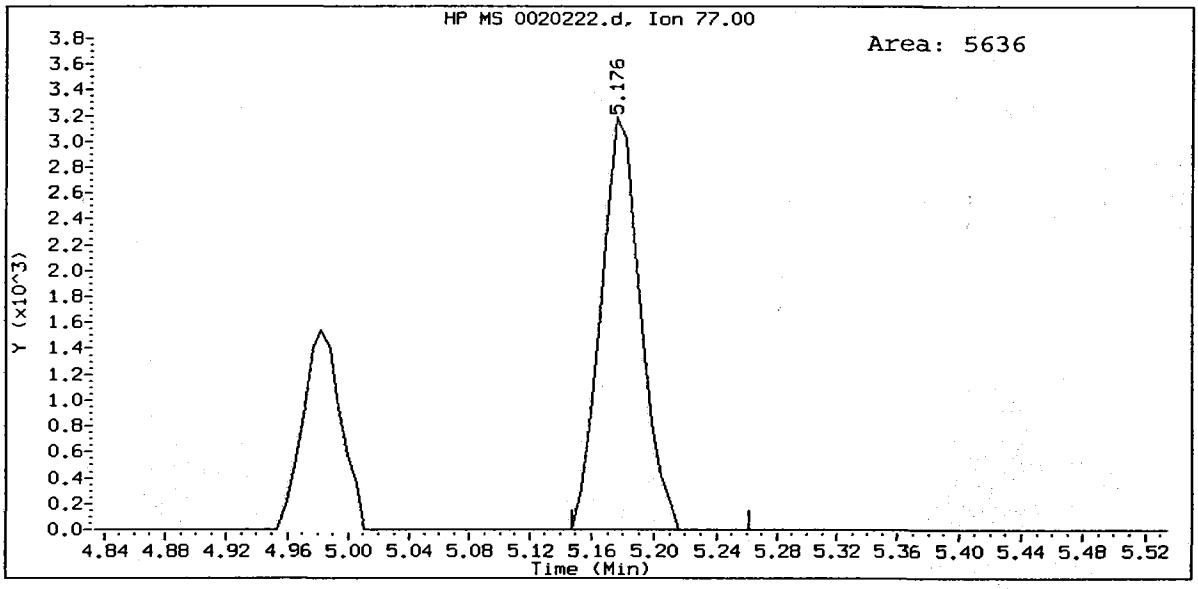


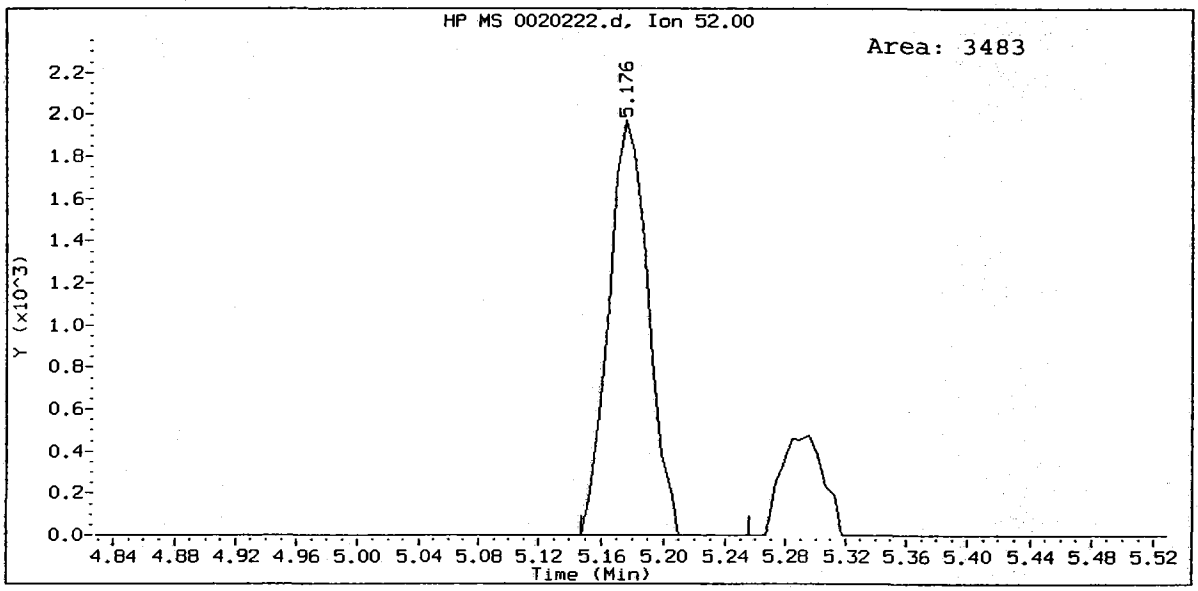




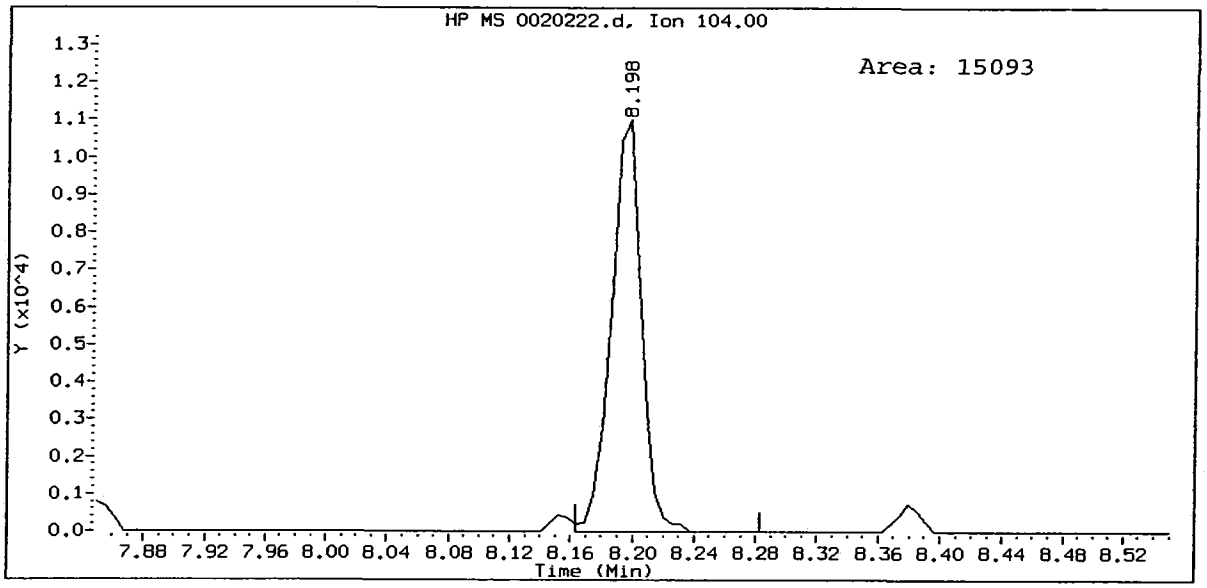
IC002, /chem1/nt10.i/22FEB10.b/0020222.d
Benzene Amount: 0.21

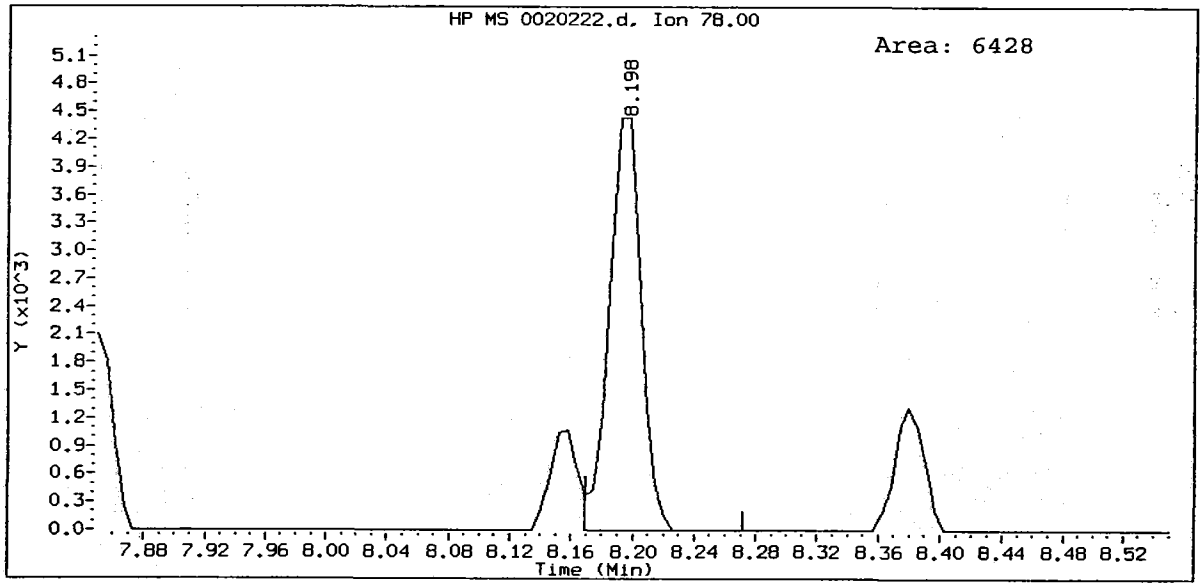


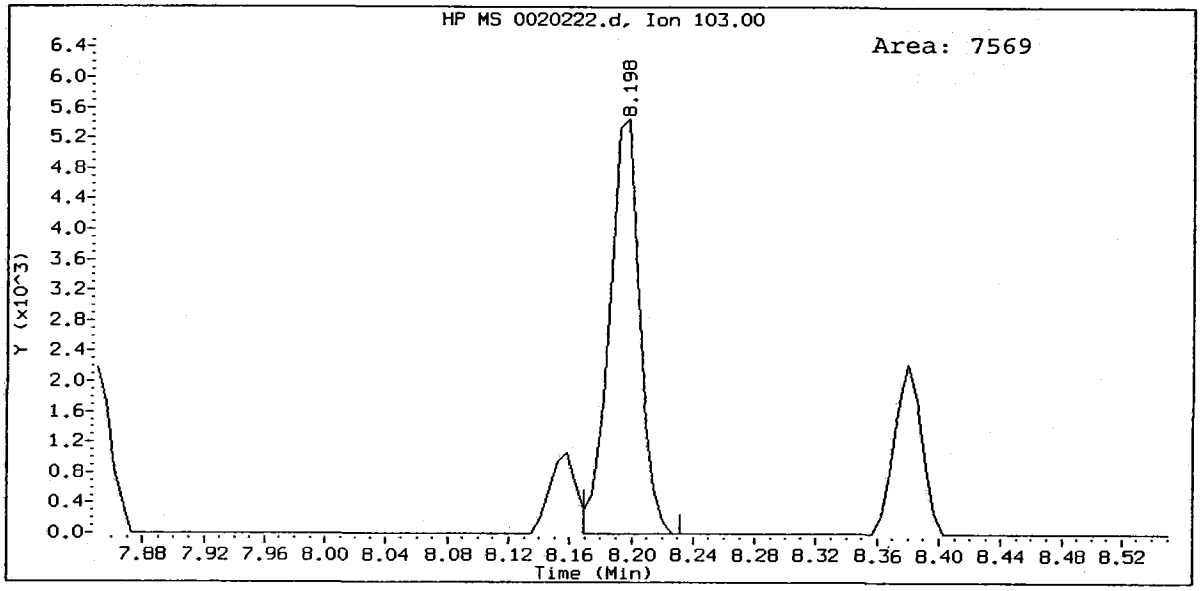




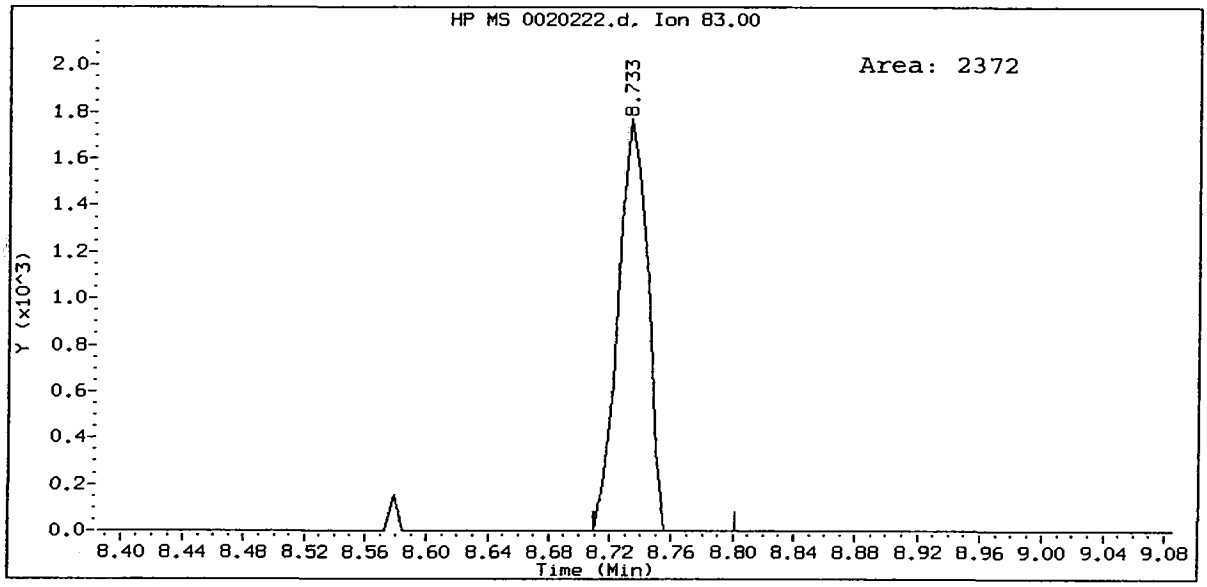
IC002, /chem1/nt10.i/22FEB10.b/0020222.d
Styrene Amount: 0.20

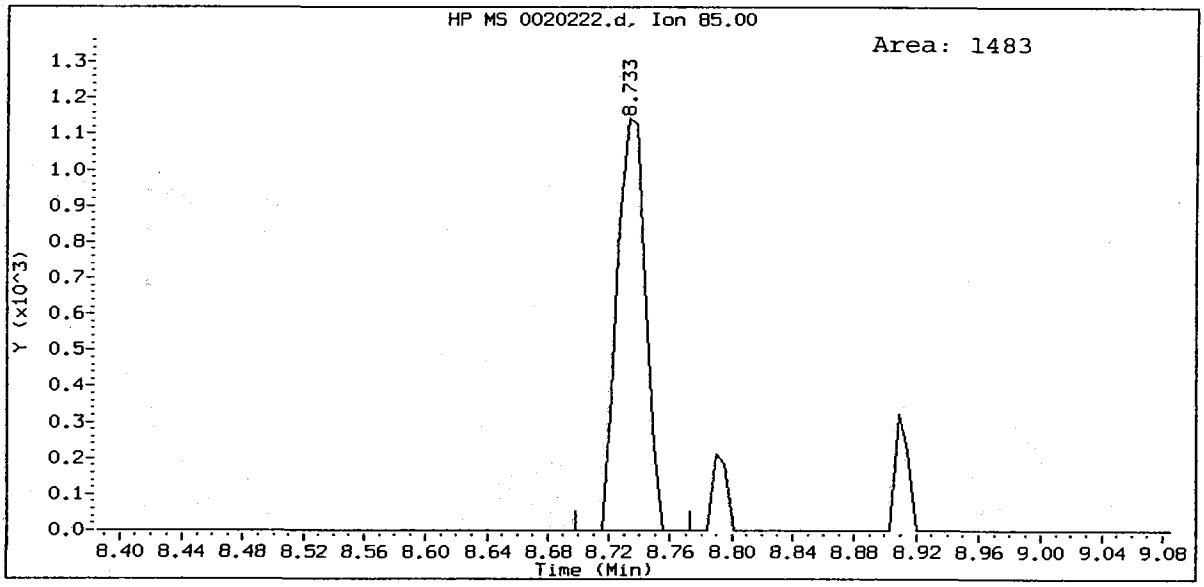


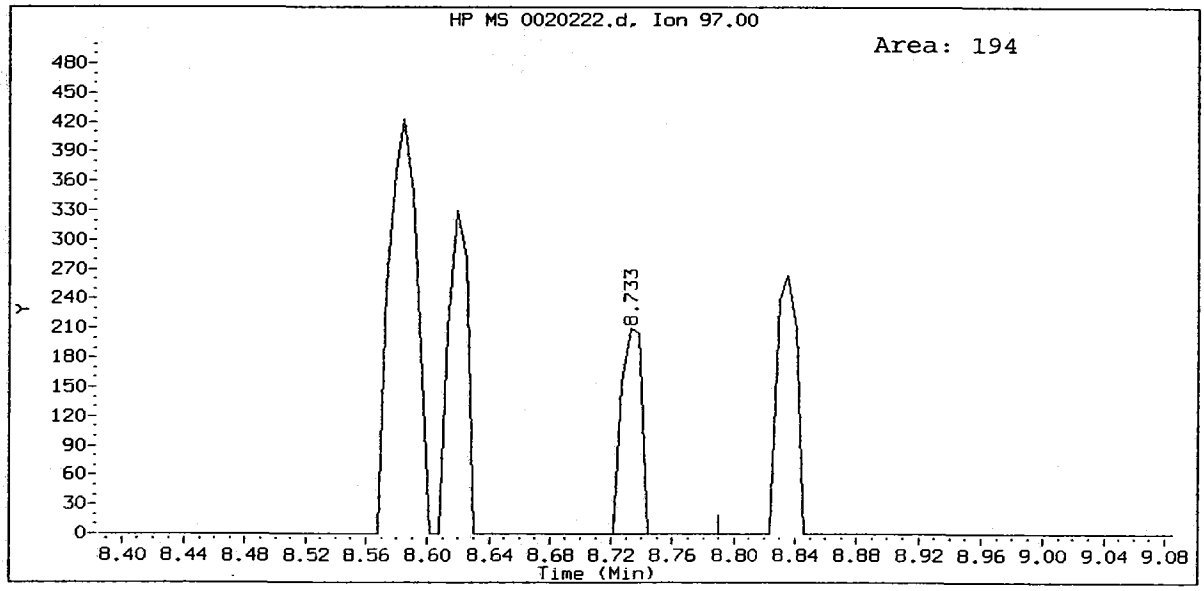




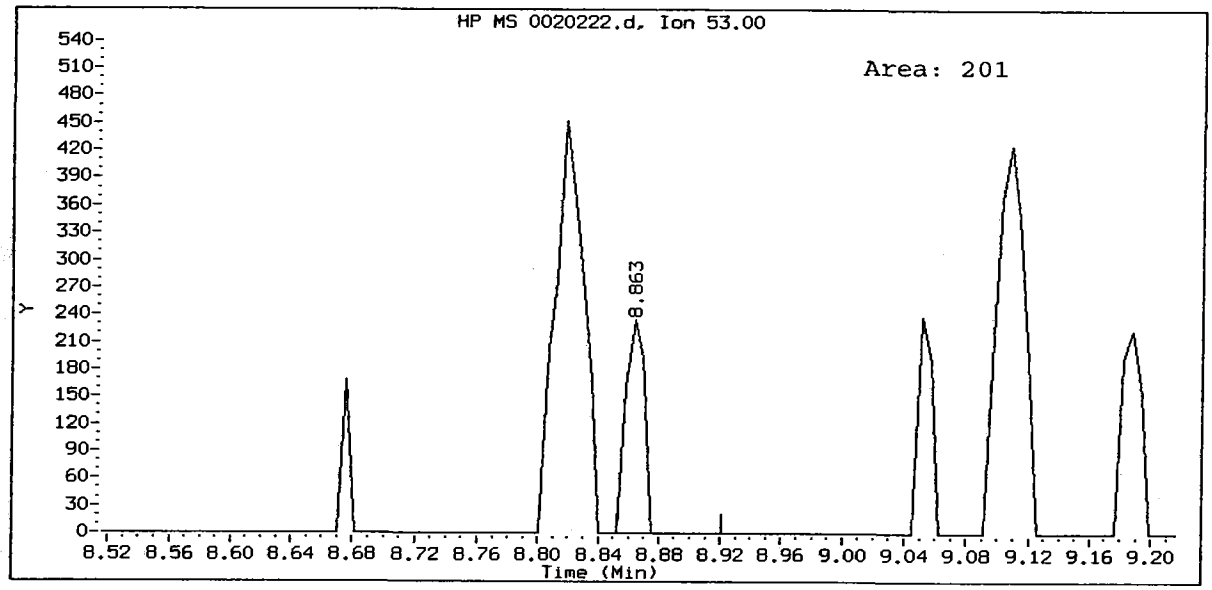
IC002, /chem1/nt10.i/22FEB10.b/0020222.d
1,1,2,2-Tetrachloroethane Amount: 0.22

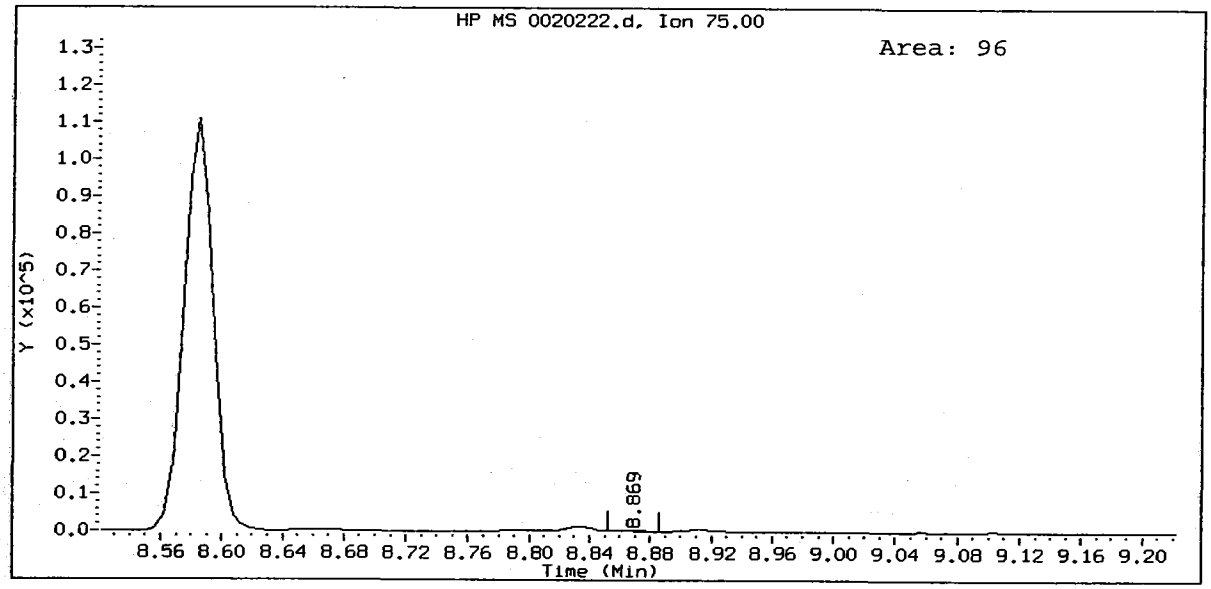


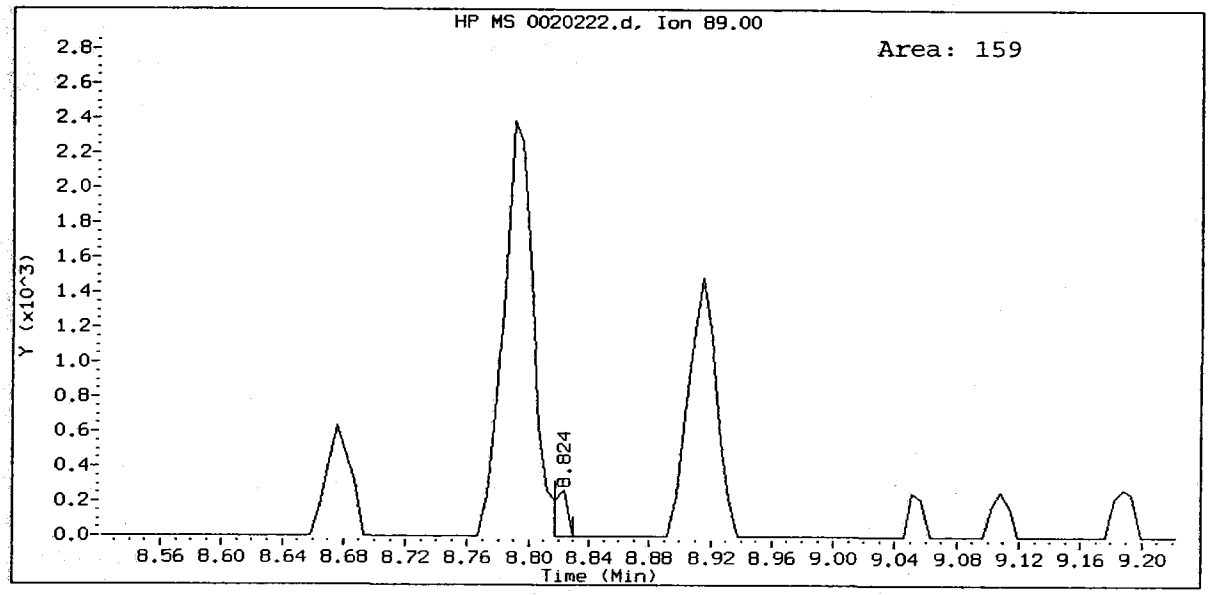




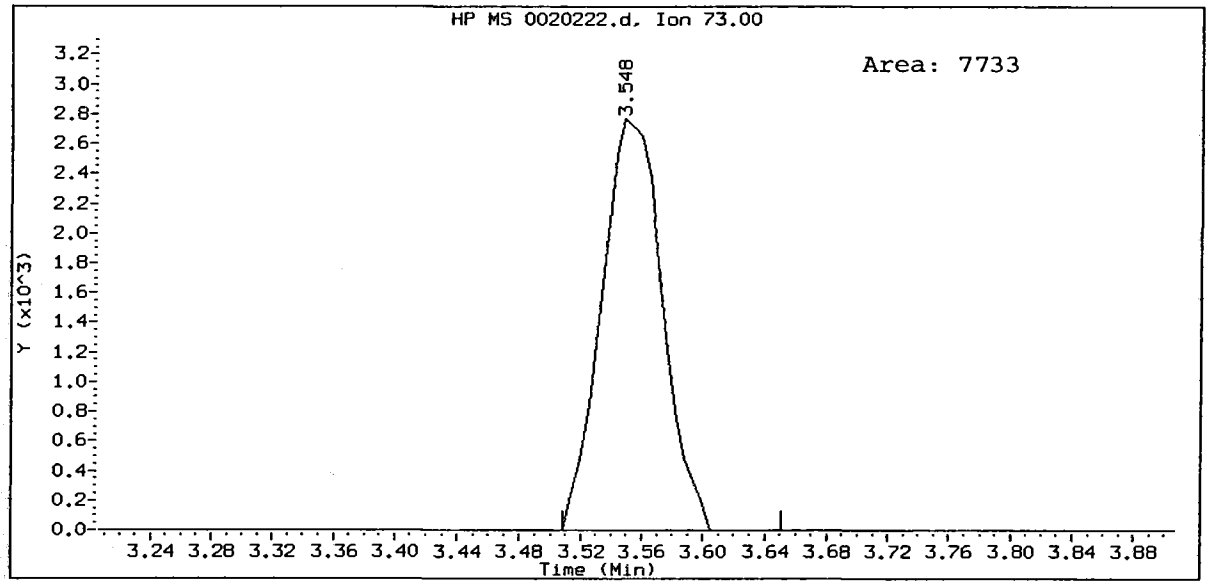
IC002, /chem1/nt10.i/22FEB10.b/0020222.d
Trans-1,4-Dichloro 2-Butene Amount: 0.10

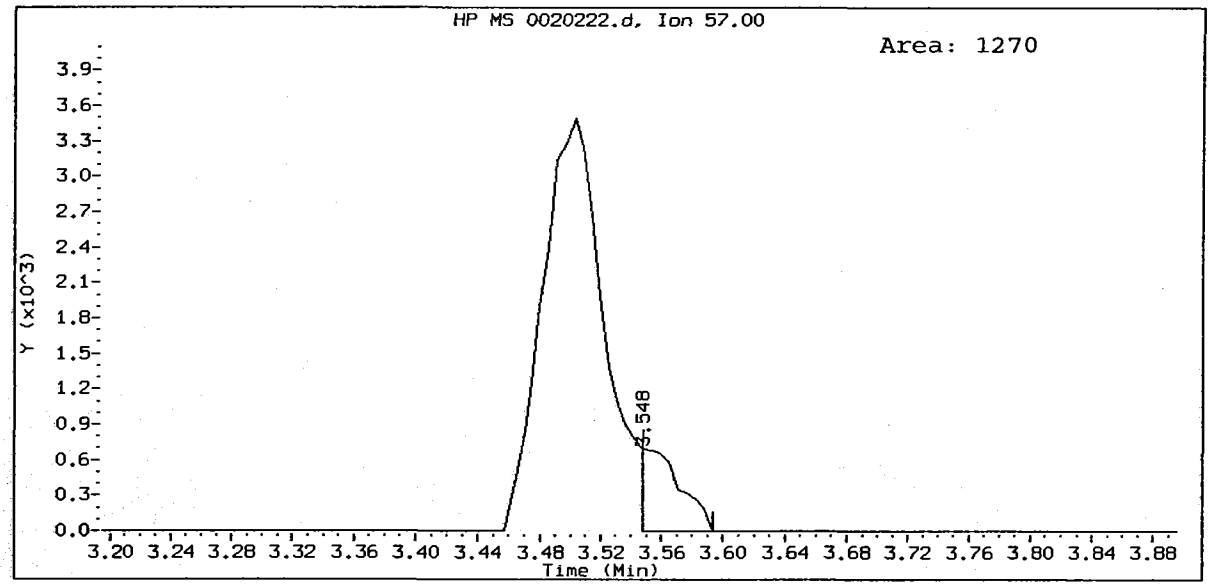


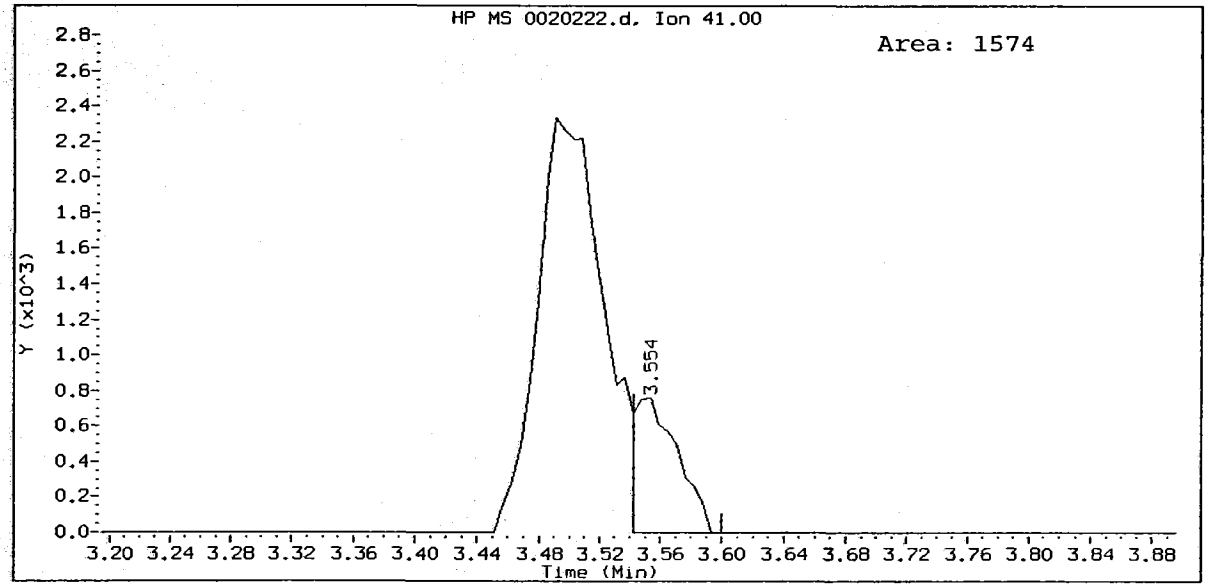




IC002, /chem1/nt10.i/22FEB10.b/0020222.d
Methyl tert butyl ether Amount: 0.21







Analytical Resources, Inc.

8260C

Data file : /chem1/nt10.i/22FEB10.b/0050222.d
Lab Smp Id: IC005 Client Smp ID: vstd2
Inj Date : 22-FEB-2010 18:41
Operator : ar Inst ID: nt10.i
Smp Info : IC005,10,10,0
Misc Info : 10-
Comment :
Method : /chem1/nt10.i/22FEB10.b/82600122L.m
Meth Date : 23-Feb-2010 15:01 aron Quant Type: ISTD
Cal Date : 22-FEB-2010 15:12 Cal File: 6000222.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	10.00000	Purge Volume (mL)
Sa	10.00000	Sample Amount (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Dichlorodifluoromethane	85	1.385	1.385	(0.263)	5842	0.50000	0.5713
2 Chloromethane	50	1.551	1.545	(0.294)	9918	0.50000	0.6484(M)
3 Vinyl Chloride	62	1.613	1.613	(0.306)	9810	0.50000	0.5394
4 Bromomethane	94	1.886	1.892	(0.358)	19838	0.50000	1.265(M)
5 Chloroethane	64	2.006	2.000	(0.380)	7721	0.50000	0.5406(M)
6 Trichlorofluoromethane	101	2.125	2.125	(0.403)	13375	0.50000	0.5232(M)
8 Acrolein	56	3.002	2.996	(0.569)	3096	2.50000	2.638(M)
9 112Trichloro122Trifluoroethane	101	2.672	2.666	(0.507)	9167	0.50000	0.5374(M)
10 Acetone	43	3.332	3.326	(0.632)	5664	2.50000	3.015(M)
11 1,1-Dichloroethene	96	2.609	2.609	(0.495)	10808	0.50000	0.5327
12 Bromoethane	108	2.882	2.882	(0.547)	6641	0.50000	0.5363
13 Iodomethane	142	2.746	2.740	(0.521)	17494	0.50000	0.6380(M)
14 Methylene Chloride	84	3.246	3.252	(0.616)	8700	0.50000	0.5148
15 Acrylonitrile	53	4.089	4.089	(0.775)	1079	0.50000	0.4510(T)
16 Methyl tert butyl ether	73	3.554	3.554	(0.674)	15695	0.50000	0.5261(M)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
	17 Carbon Disulfide	76	2.609	2.615	(0.495)	35182	0.50000	0.5296(M)
	18 Trans-1,2-Dichloroethene	96	3.412	3.411	(0.647)	10752	0.50000	0.5043
	20 Vinyl Acetate	43	4.288	4.282	(0.813)	8698	0.50000	0.4610
	21 1,1-Dichloroethane	63	4.026	4.020	(0.764)	17034	0.50000	0.4904(M)
	22 2-Butanone	72	4.999	4.994	(0.948)	2958	2.50000	2.448
	23 2,2-Dichloropropane	77	4.590	4.584	(0.870)	6953	0.50000	0.5031
	24 Cis-1,2-Dichloroethene	96	4.498	4.498	(0.853)	11766	0.50000	0.4947
*	25 Pentafluorobenzene	168	5.272	5.272	(1.000)	407710	10.0000	
	26 Chloroform	83	4.737	4.737	(0.899)	18122	0.50000	0.4897
	27 Bromochloromethane	128	4.669	4.663	(0.886)	4060	0.50000	0.5025
$	28 Dibromofluoromethane	111	4.880	4.880	(0.926)	167035	10.0000	9.824
	29 1,1,1-Trichloroethane	97	4.885	4.885	(0.927)	14582	0.50000	0.5066
	30 1,1-Dichloropropene	75	4.982	4.982	(0.880)	15943	0.50000	0.4927
	31 Carbon Tetrachloride	117	4.823	4.823	(0.852)	11575	0.50000	0.4889
$	32 d4-1,2-Dichloroethane	65	5.290	5.289	(1.003)	148020	10.0000	9.899
	33 1,2-Dichloroethane	62	5.341	5.341	(0.944)	9626	0.50000	0.4898(M)
	34 Benzene	78	5.181	5.181	(0.916)	44298	0.50000	0.4846
*	35 1,4-Difluorobenzene	114	5.659	5.659	(1.000)	651788	10.0000	
	36 Trichloroethene	95	5.620	5.620	(0.993)	11173	0.50000	0.4561
	37 1,2-Dichloropropane	63	6.007	6.007	(1.061)	9662	0.50000	0.4882
	38 Bromodichloromethane	83	6.052	6.052	(1.069)	11779	0.50000	0.4706
	39 Dibromomethane	93	5.927	5.927	(1.047)	3724	0.50000	0.4709
	40 2-Chloroethyl Vinyl Ether	63	6.468	6.468	(1.143)	2103	0.50000	0.4476
	41 4-Methyl-2-Pentanone	58	6.946	6.946	(1.227)	8117	2.50000	2.325
	42 Cis 1,3-dichloropropene	75	6.502	6.502	(1.149)	12566	0.50000	0.4511
$	43 d8-Toluene	98	6.633	6.633	(1.172)	799486	10.0000	10.067
	44 Toluene	92	6.667	6.667	(1.178)	30532	0.50000	0.4897
	45 Trans 1,3-Dichloropropene	75	6.963	6.963	(1.230)	8700	0.50000	0.4248
	46 2-Hexanone	43	7.526	7.526	(0.975)	12384	2.50000	2.367
	47 1,1,2-Trichloroethane	97	7.077	7.076	(1.250)	5864	0.50000	0.4830
	48 1,3-Dichloropropane	76	7.264	7.264	(0.941)	10462	0.50000	0.4868
	49 Tetrachloroethene	166	6.929	6.928	(0.898)	12818	0.50000	0.4917
	50 Chlorodibromomethane	129	7.196	7.196	(0.932)	6803	0.50000	0.4722
	51 1,2-Dibromoethane	107	7.361	7.361	(1.301)	4976	0.50000	0.4614
*	52 d5-Chlorobenzene	117	7.720	7.720	(1.000)	599619	10.0000	
	53 Chlorobenzene	112	7.731	7.731	(1.001)	30773	0.50000	0.4883
	54 Ethyl Benzene	91	7.748	7.748	(1.004)	60108	0.50000	0.5027
	55 1,1,1,2-Tetrachloroethane	131	7.777	7.776	(1.007)	9689	0.50000	0.5025
	56 m,p-xylene	106	7.851	7.850	(1.017)	44338	1.00000	0.9839
	58 o-Xylene	106	8.158	8.158	(1.057)	19970	0.50000	0.4889
	59 Styrene	104	8.198	8.198	(1.062)	31228	0.50000	0.4859
	60 Isopropyl Benzene	105	8.380	8.380	(0.891)	57193	0.50000	0.4779
	61 Bromoform	173	8.209	8.215	(0.873)	2912	0.50000	0.4155
	62 1,1,2,2-Tetrachloroethane	83	8.733	8.733	(0.929)	5018	0.50000	0.4884
	63 4-Bromofluorobenzene	95	8.585	8.585	(1.112)	253607	10.0000	10.425
	64 1,2,3-Trichloropropane	110	8.835	8.835	(0.939)	1469	0.50000	0.4731(Q)
	65 Trans-1,4-Dichloro 2-Butene	53	8.864	8.863	(0.942)	548	0.50000	0.2882(QM)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
66	N-Propyl Benzene	91	8.681	8.681	(0.923)	64456	0.50000	0.4717
67	Bromobenzene	156	8.659	8.664	(0.921)	10400	0.50000	0.4539
68	1,3,5-Trimethyl Benzene	105	8.824	8.824	(0.938)	43704	0.50000	0.4944
69	2-Chloro Toluene	91	8.795	8.795	(0.935)	41147	0.50000	0.4794
70	4-Chloro Toluene	91	8.915	8.915	(0.948)	35125	0.50000	0.4725
71	T-Butyl Benzene	119	9.057	9.057	(0.963)	37985	0.50000	0.5084
72	1,2,4-Trimethylbenzene	105	9.108	9.108	(0.969)	41750	0.50000	0.4990
73	S-Butyl Benzene	105	9.188	9.188	(0.977)	56862	0.50000	0.5177
74	4-Isopropyl Toluene	119	9.296	9.296	(0.988)	43281	0.50000	0.5168
75	1,3-Dichlorobenzene	146	9.353	9.353	(0.995)	18879	0.50000	0.4912
* 76	d4-1,4-Dichlorobenzene	152	9.404	9.410	(1.000)	226696	10.0000	
77	1,4-Dichlorobenzene	146	9.416	9.421	(1.001)	18366	0.50000	0.5008(Q)
78	N-Butyl Benzene	91	9.620	9.620	(1.023)	35641	0.50000	0.4979
$ 79	d4-1,2-Dichlorobenzene	152	9.734	9.734	(1.035)	182915	10.0000	10.375
80	1,2-Dichlorobenzene	146	9.740	9.740	(1.036)	14652	0.50000	0.5068
81	1,2-Dibromo 3-Chloropropane	75	10.360	10.355	(1.102)	360	0.50000	0.3927
82	1,2,4-Trichlorobenzene	180	10.878	10.878	(1.157)	6233	0.50000	0.4423
83	Hexachloro 1,3-Butadiene	225	10.855	10.855	(1.154)	4820	0.50000	0.5746
84	Naphthalene	128	11.140	11.140	(1.185)	9978	0.50000	0.5210
85	1,2,3-Trichlorobenzene	180	11.282	11.282	(1.200)	4907	0.50000	0.5136

QC Flag Legend

T - Target compound detected outside RT window.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: 0050222.d
Lab Smp Id: IC005
Analysis Type: VOA
Quant Type: ISTD
Operator: ar
Method File: /chem1/nt10.i/22FEB10.b/82600122L.m
Misc Info: 10-

Calibration Date: 22-FEB-2010
Calibration Time: 17:11
Client Smp ID: vstd2
Level: LOW
Sample Type: WATER

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
25 Pentafluorobenzen	456228	228114	912456	407710	-10.63
35 1,4-Difluorobenze	740651	370326	1481302	651788	-12.00
52 d5-Chlorobenzene	686240	343120	1372480	599619	-12.62
76 d4-1,4-Dichlorobe	249963	124982	499926	226696	-9.31

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
25 Pentafluorobenzen	5.27	4.77	5.77	5.27	0.00
35 1,4-Difluorobenze	5.66	5.16	6.16	5.66	0.00
52 d5-Chlorobenzene	7.72	7.22	8.22	7.72	0.00
76 d4-1,4-Dichlorobe	9.41	8.91	9.91	9.40	-0.06

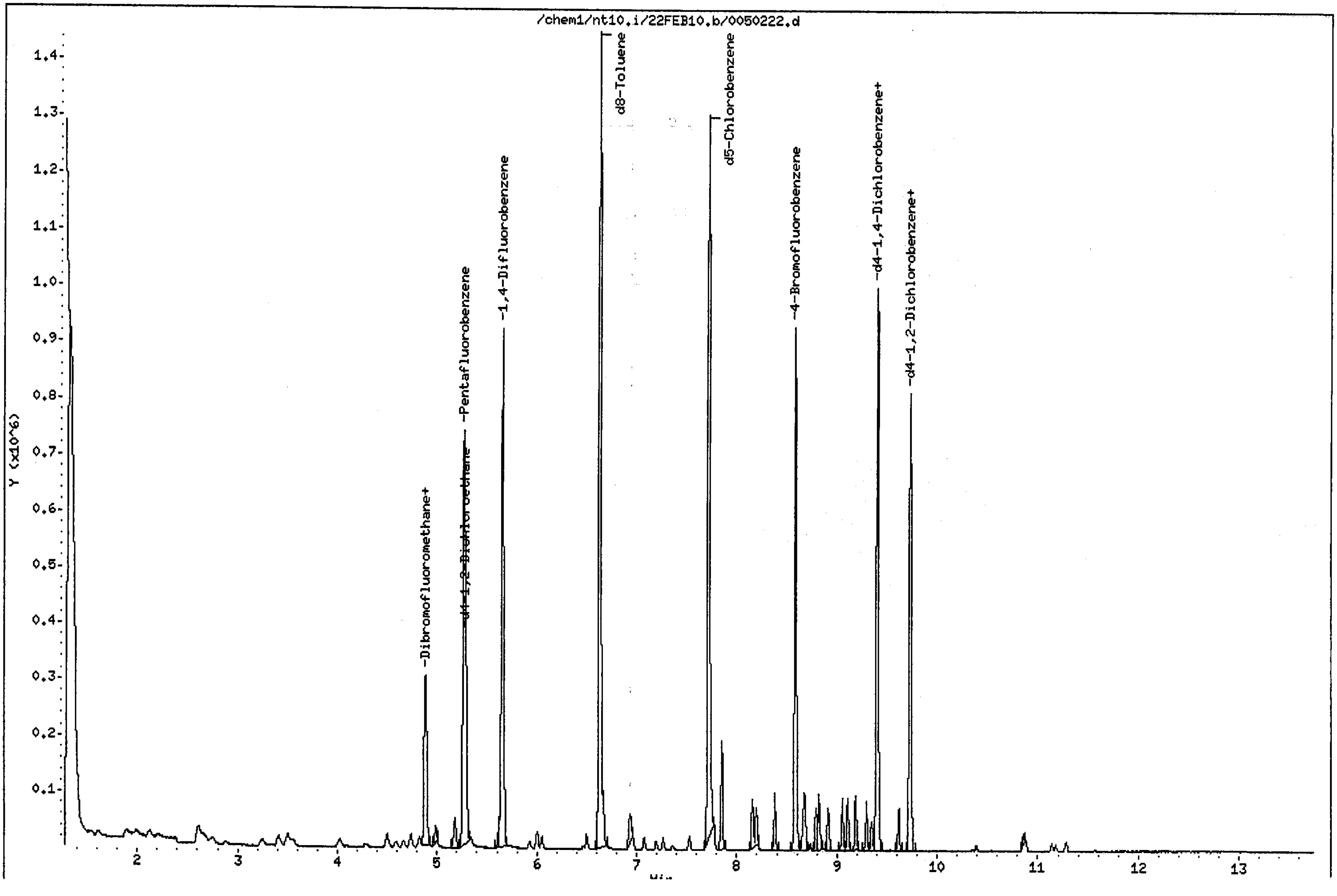
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem1/nt10.i/22FEB10.b/0050222.d
Date : 22-FEB-2010 18:41
Client ID: vstd2
Sample Info: IC005,10,10,0

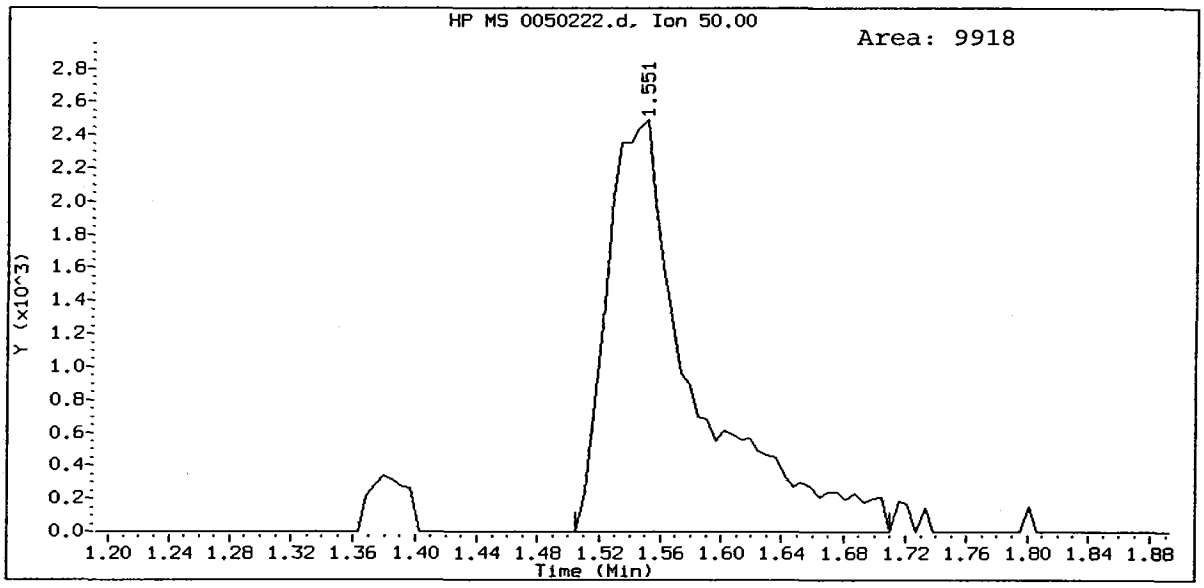
Column phase: RTX502.2

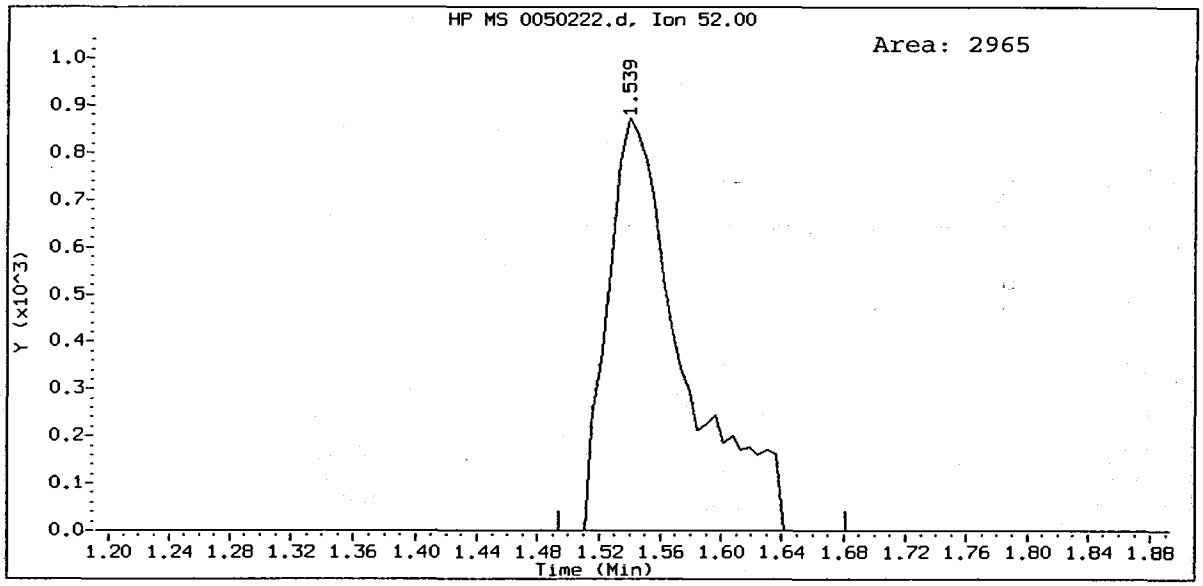
Instrument: nt10.i

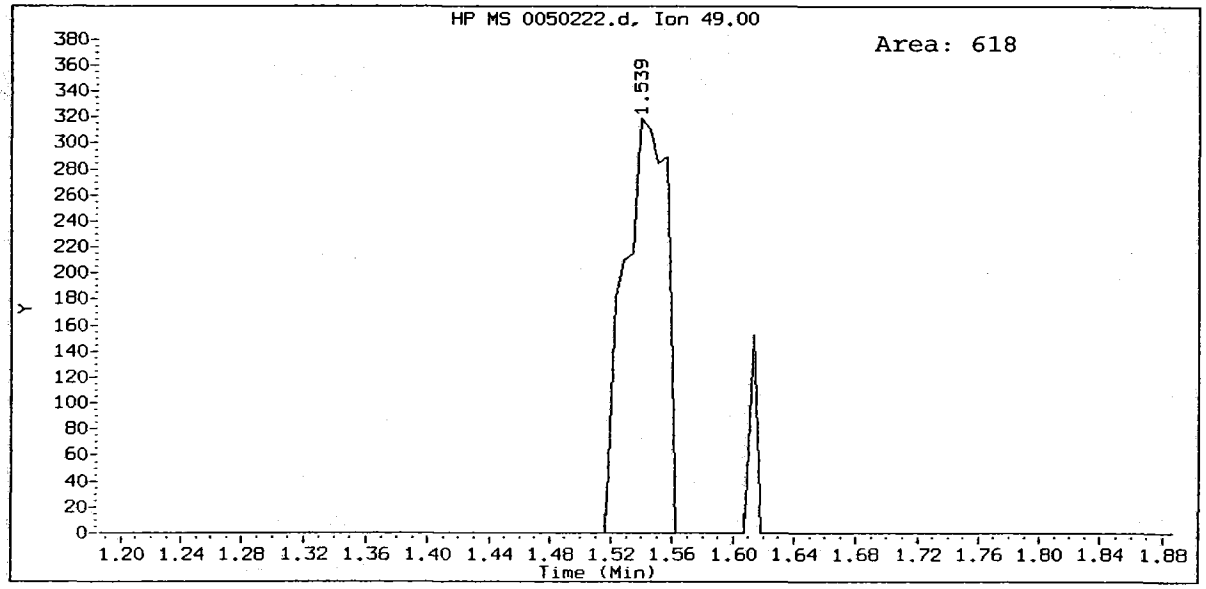
Operator: ar
Column diameter: 0.18



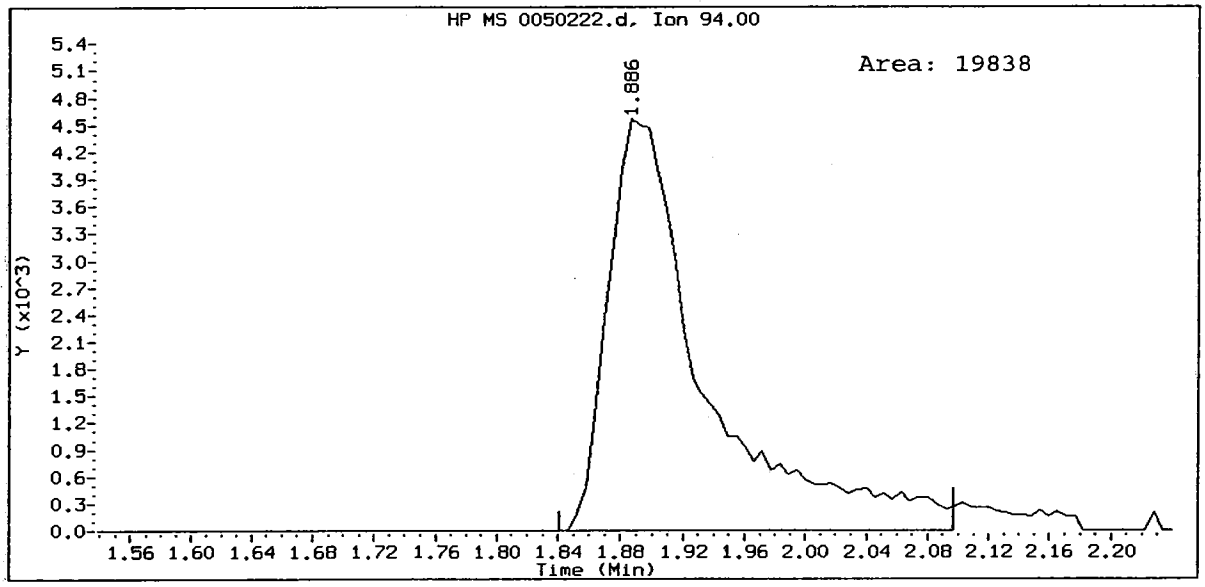
IC005, /chem1/nt10.i/22FEB10.b/0050222.d
Chloromethane Amount: 0.65

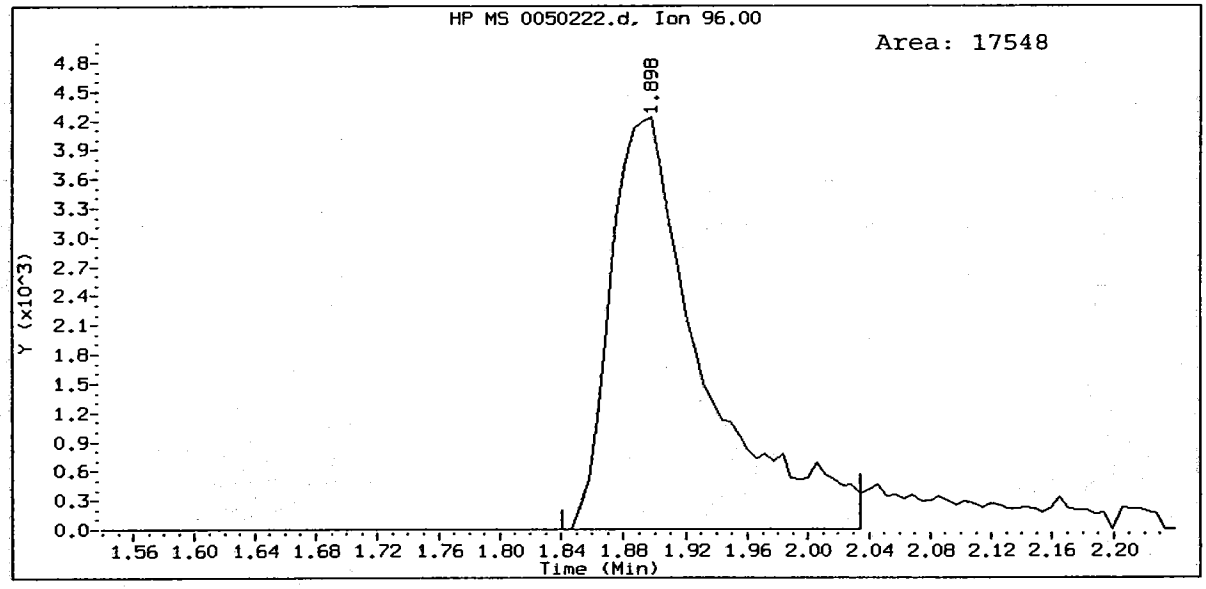


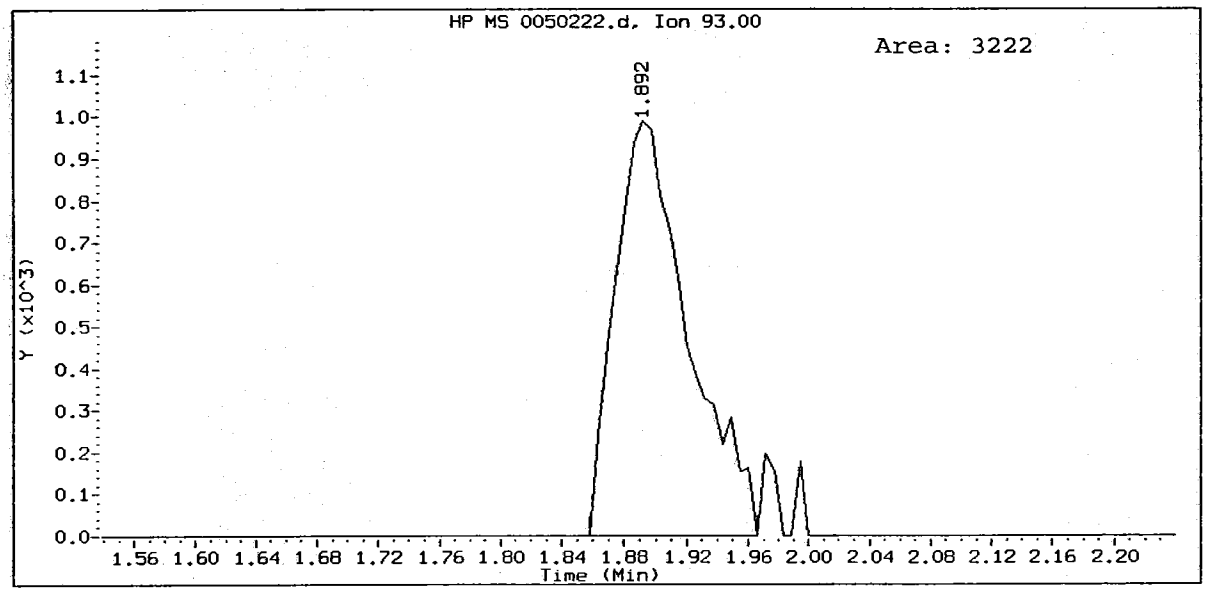




IC005, /chem1/nt10.i/22FEB10.b/0050222.d
Bromomethane Amount: 1.26







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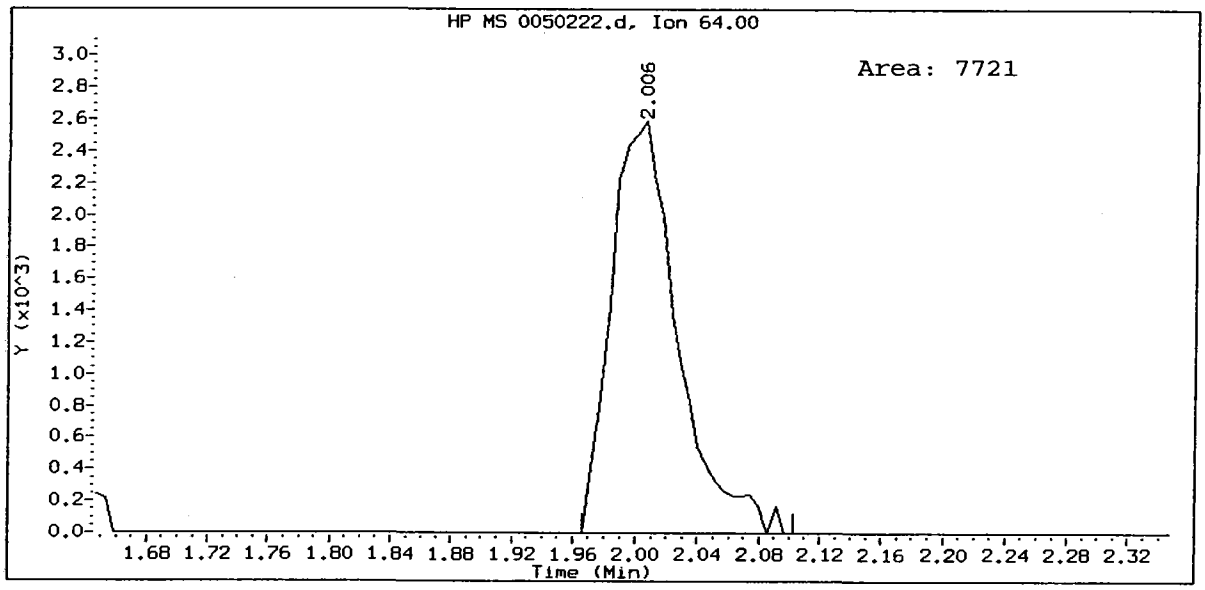
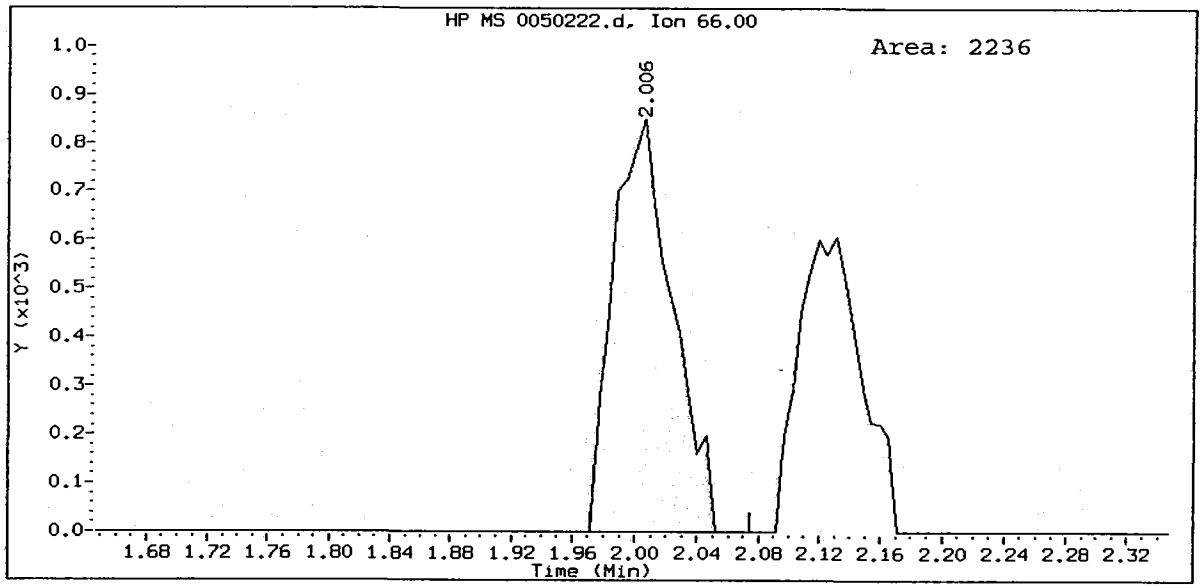
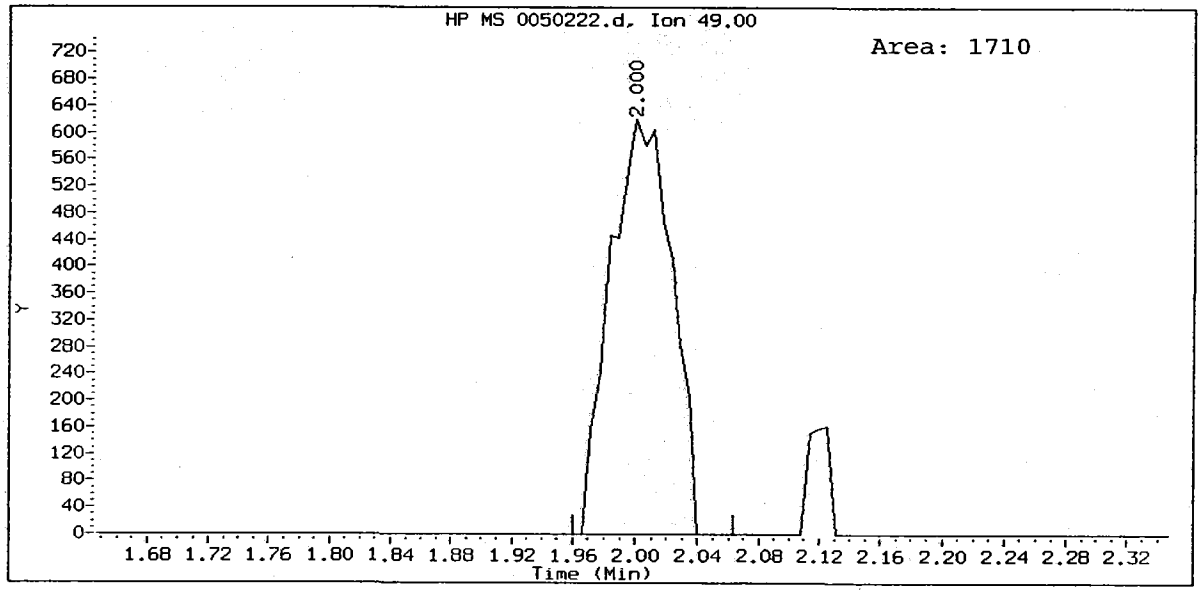
Chloroethane Amount: 0.54







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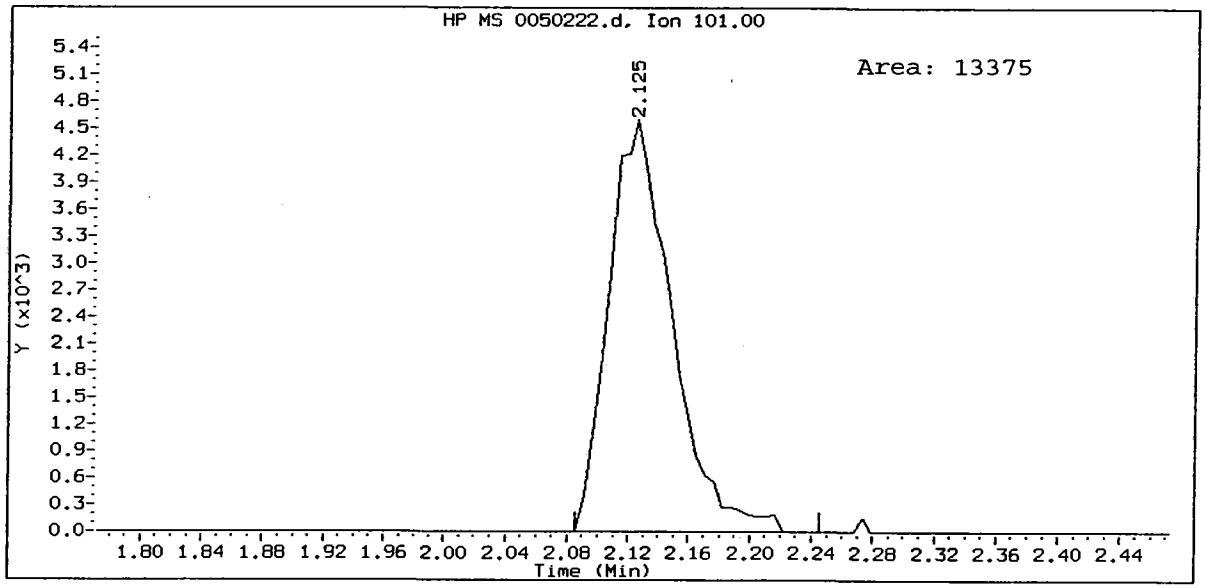
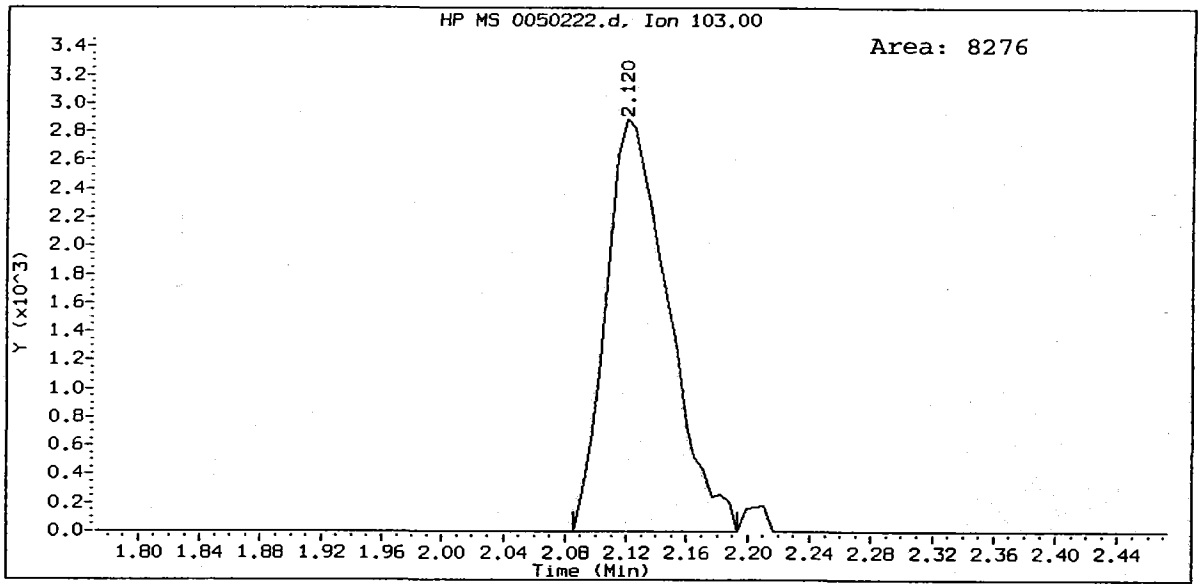
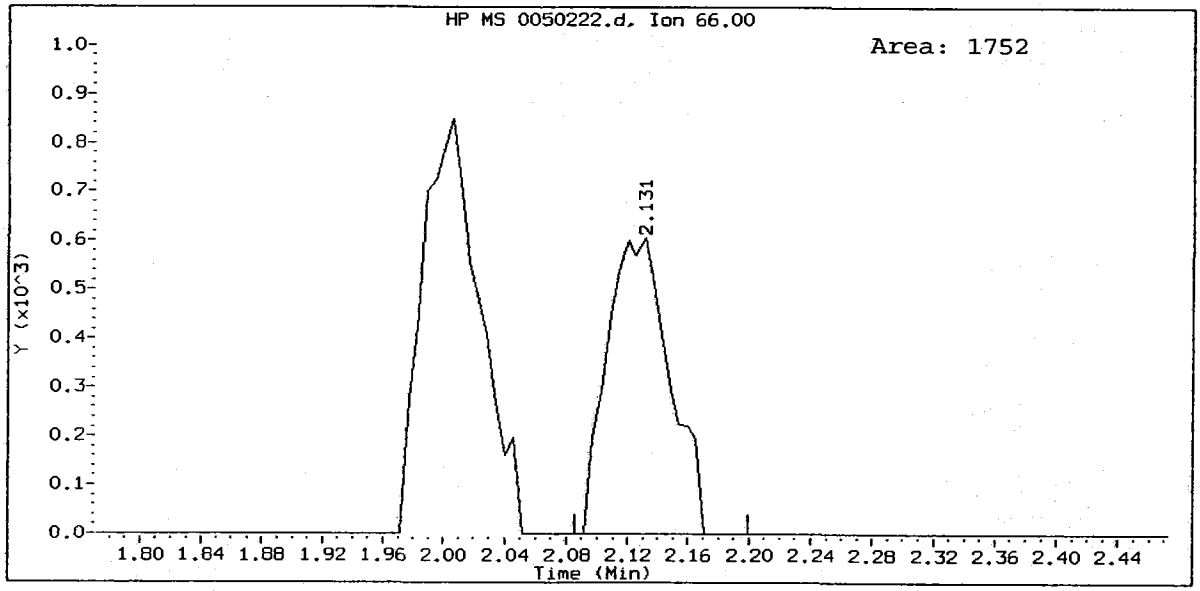
Trichlorofluoromethane Amount: 0.52







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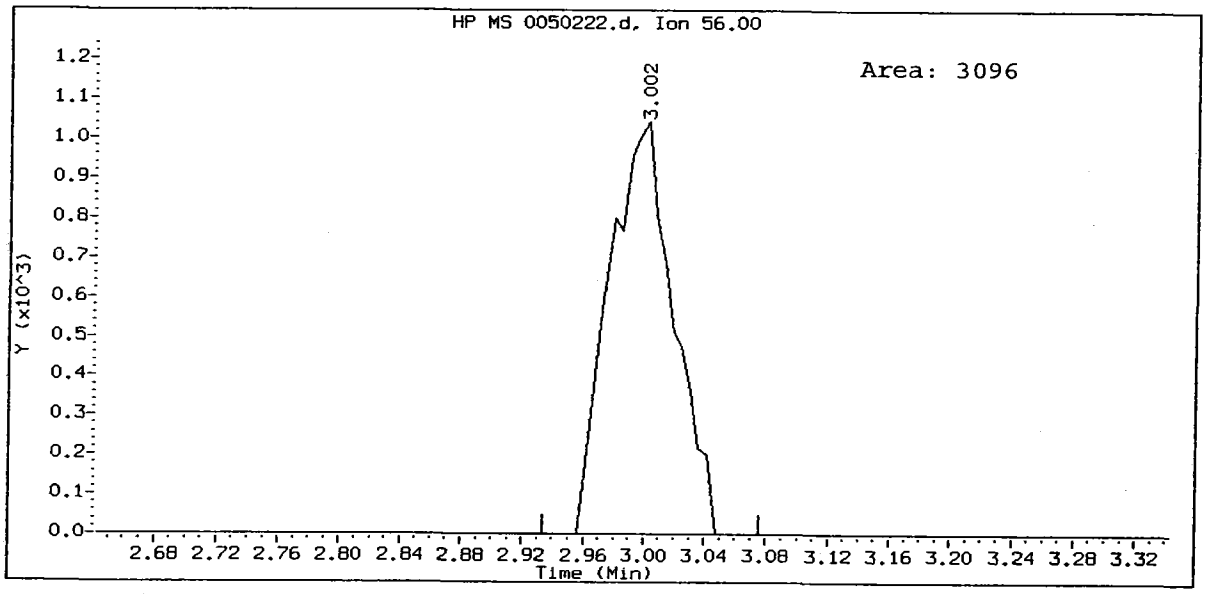
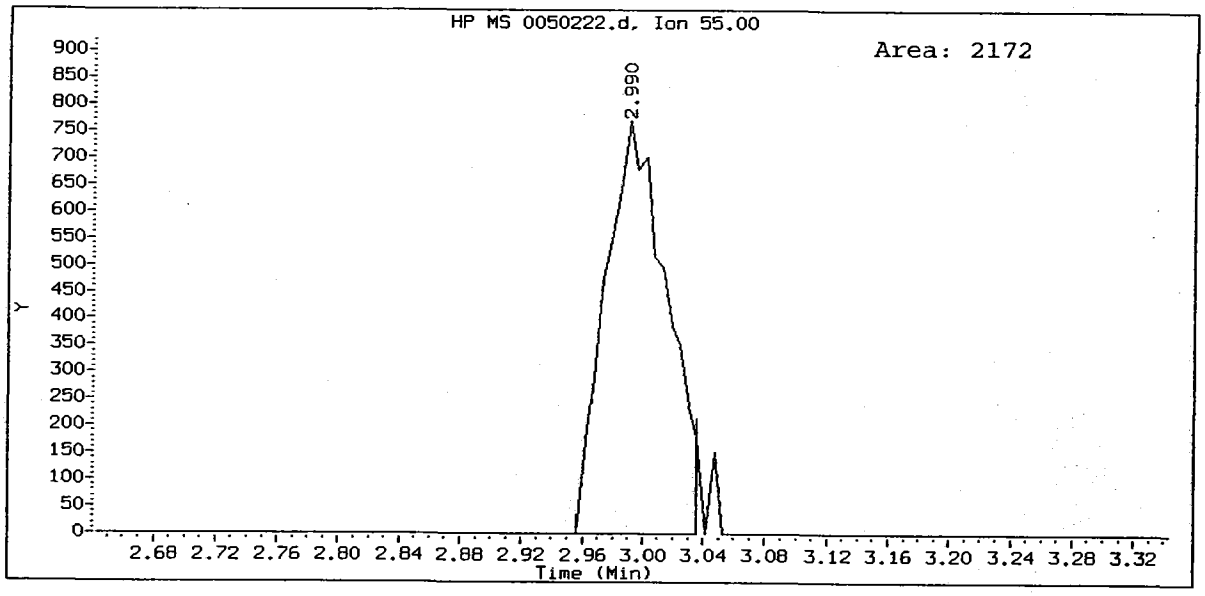
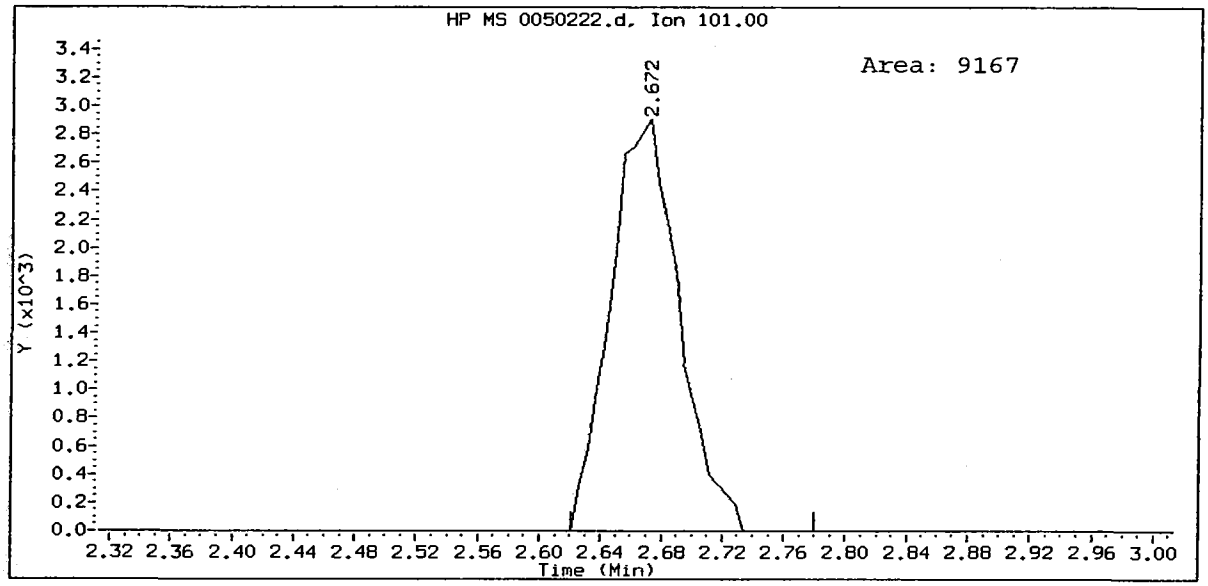
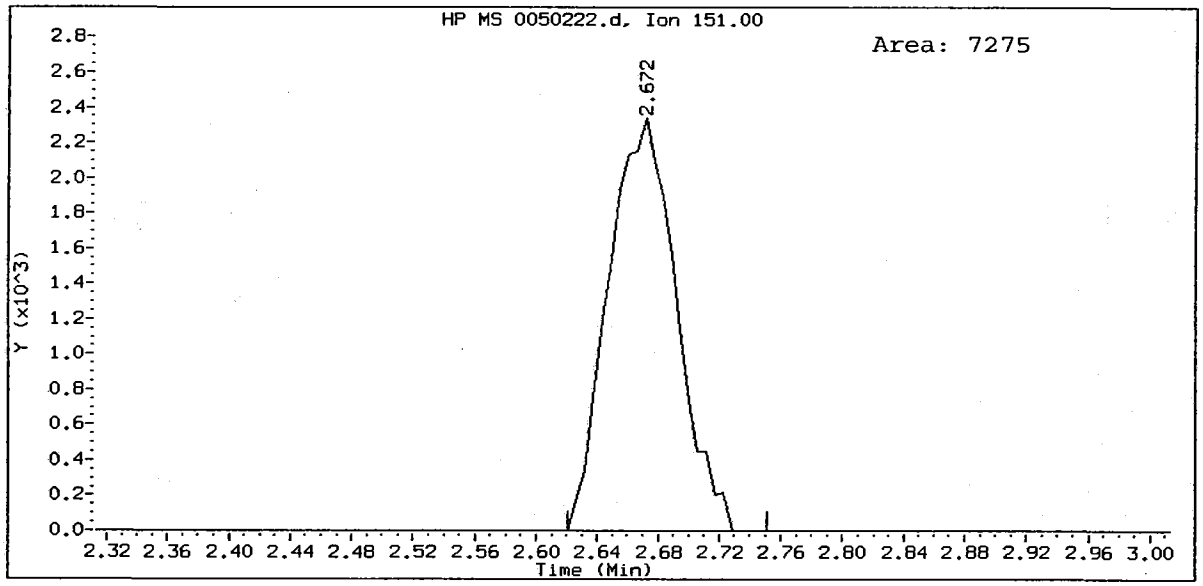
Acrolein Amount: 2.64

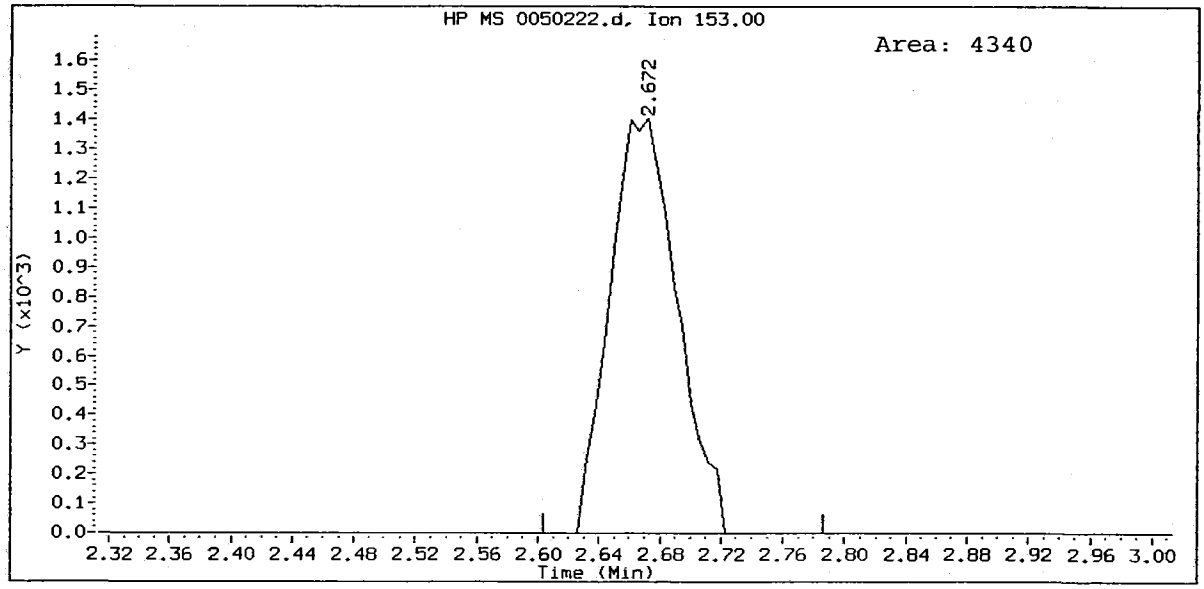




IC005, /chem1/nt10.i/22FEB10.b/0050222.d
112Trichloro122Trifluoroethane Amount: 0.54







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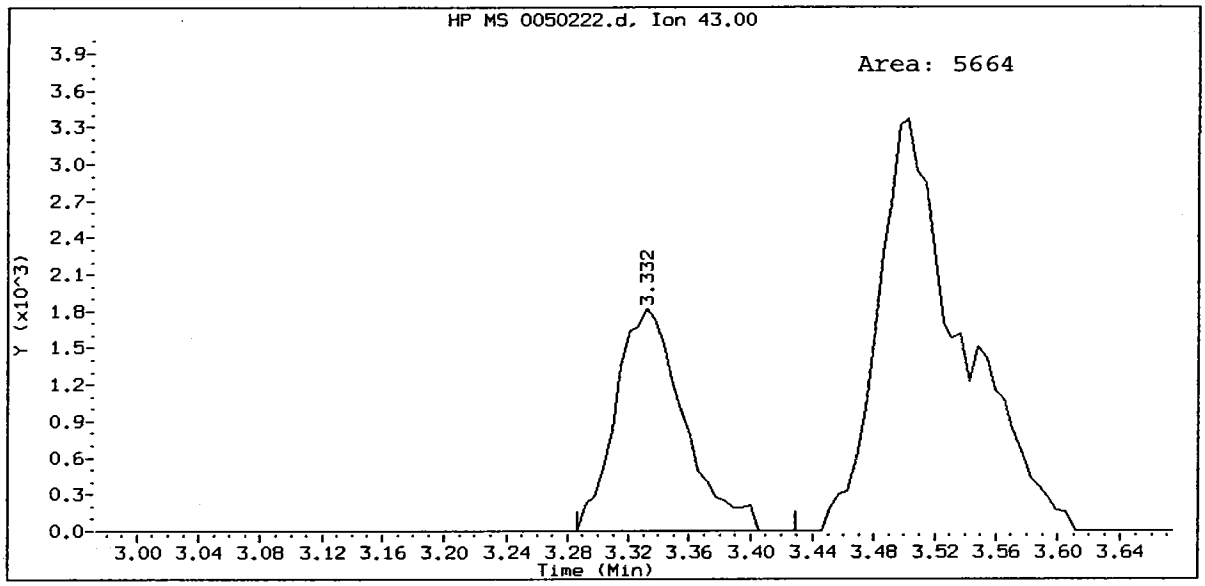
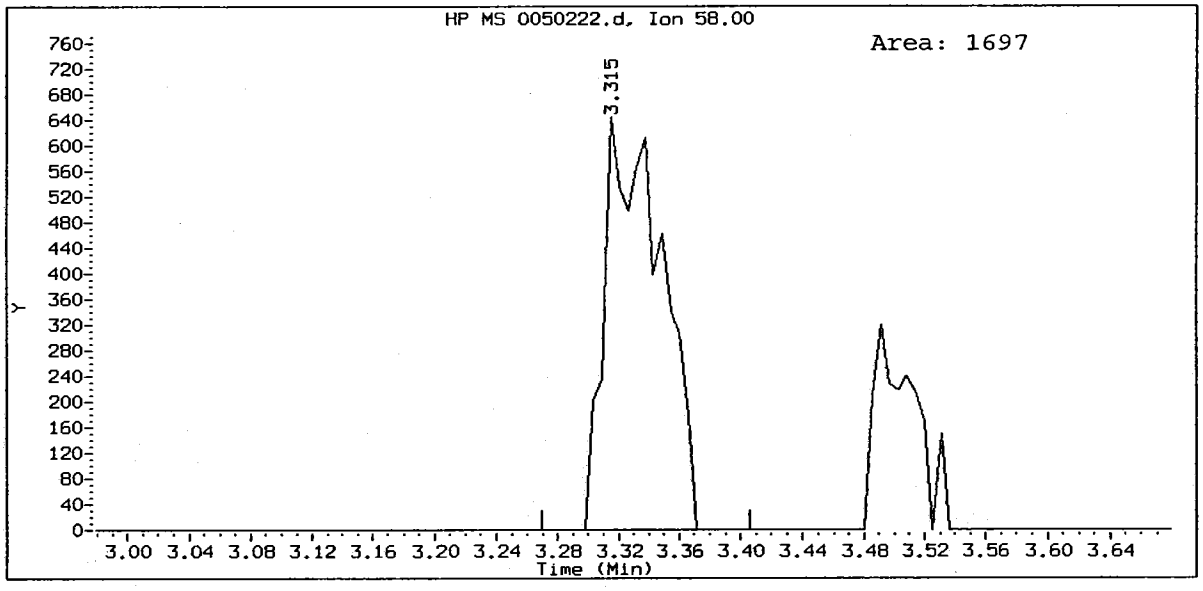
Acetone Amount: 3.02





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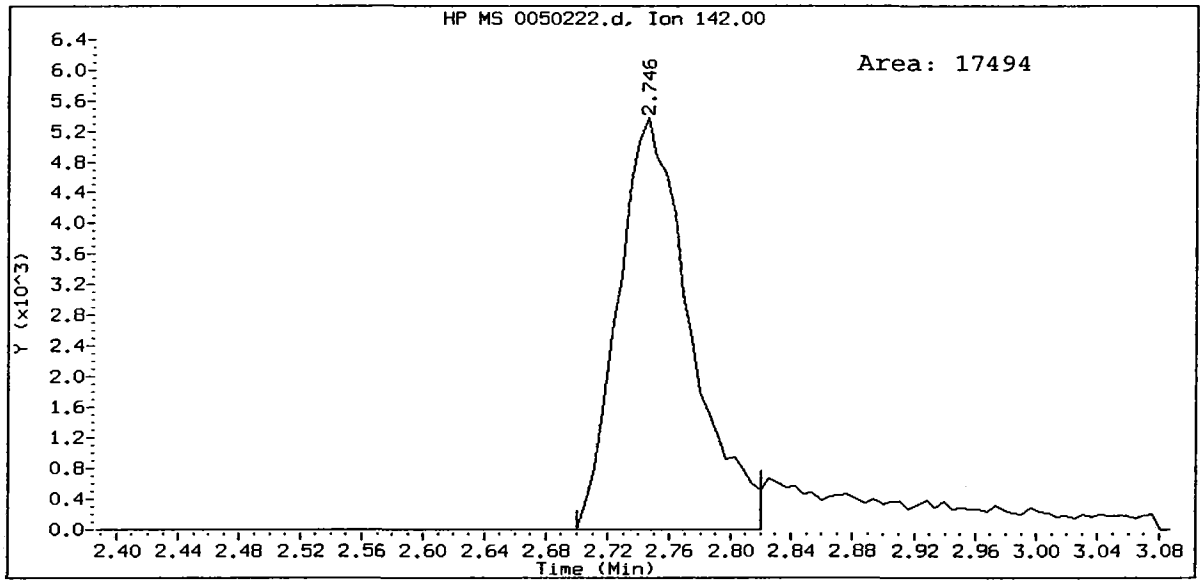
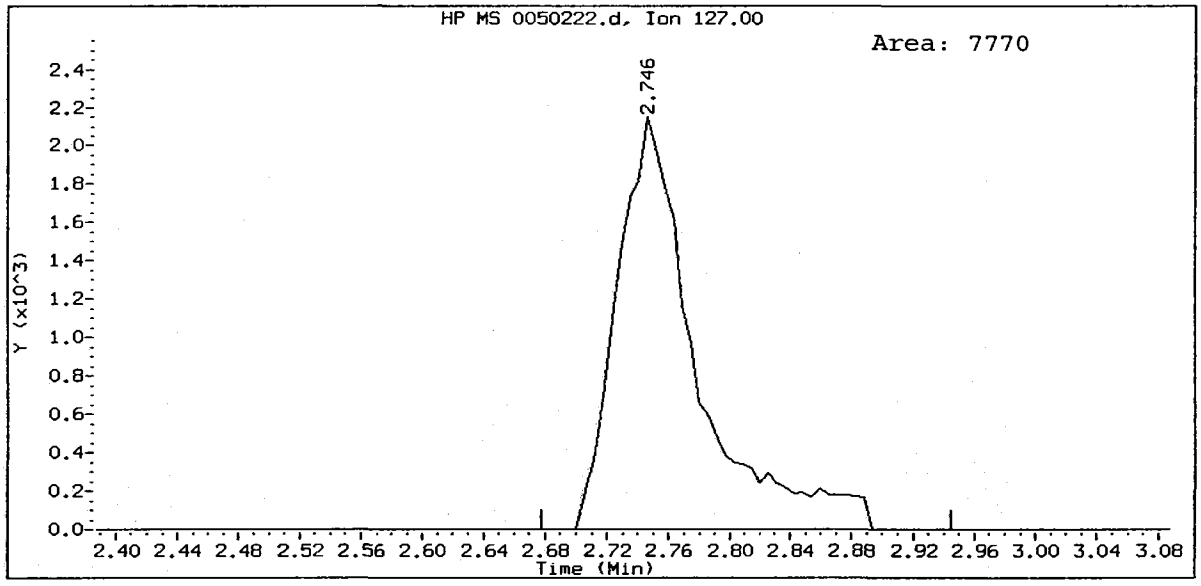
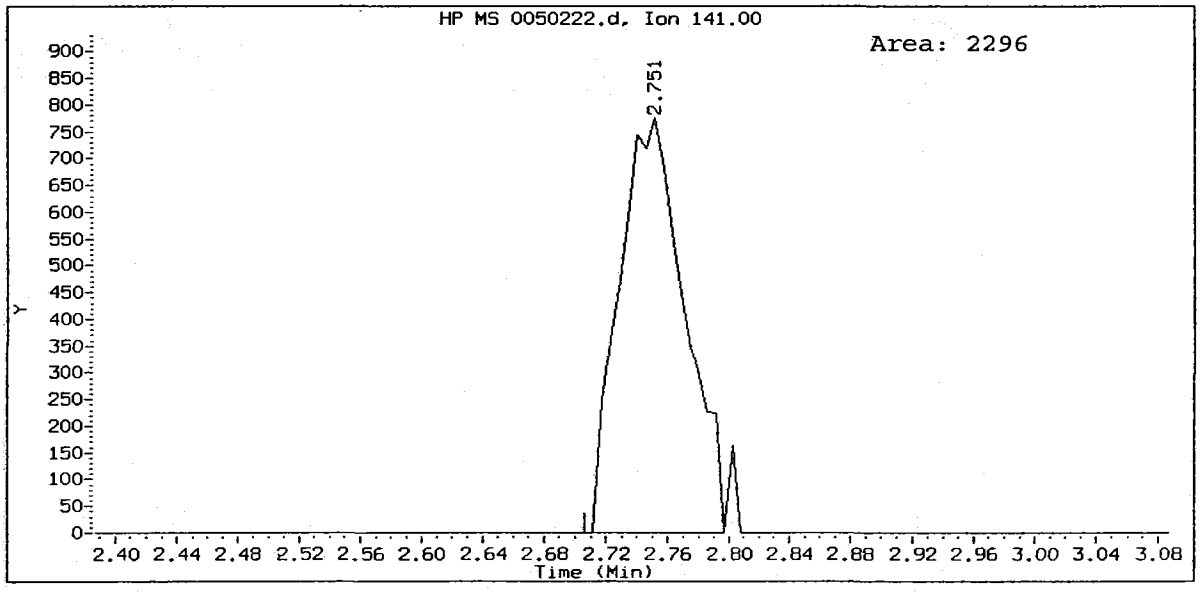
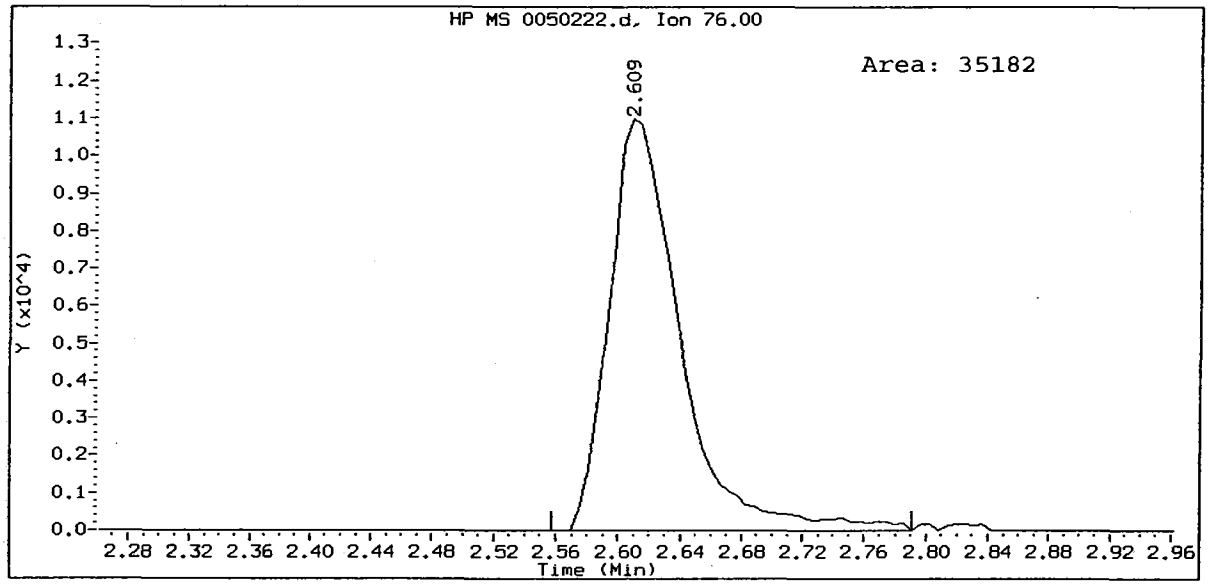
Iodomethane Amount: 0.64

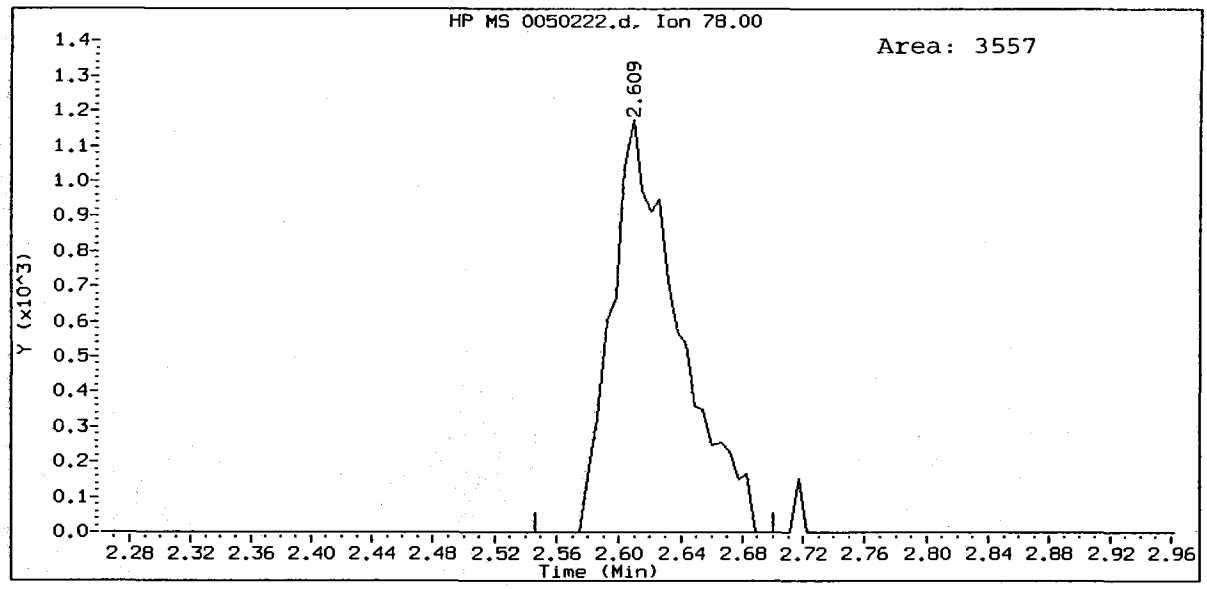


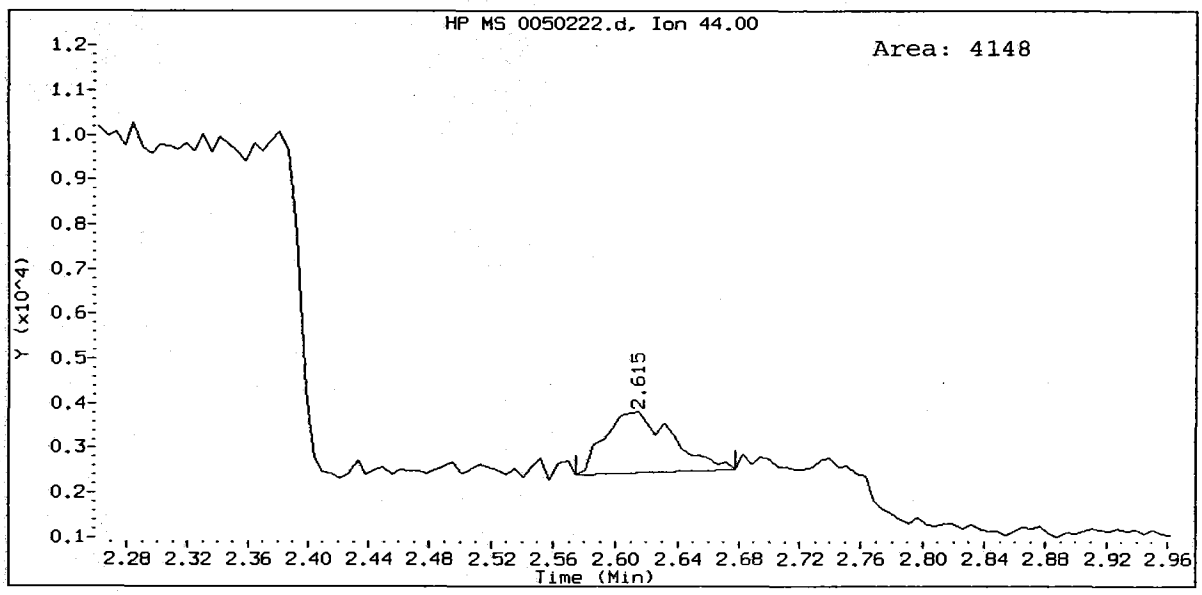




IC005, /chem1/nt10.i/22FEB10.b/0050222.d
Carbon Disulfide Amount: 0.53







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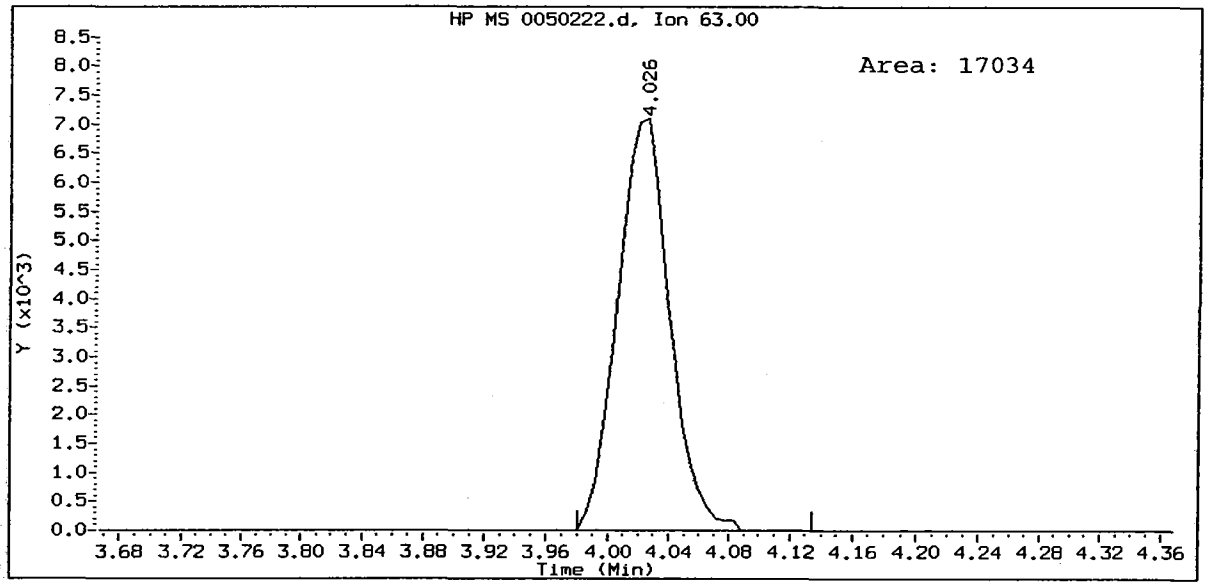
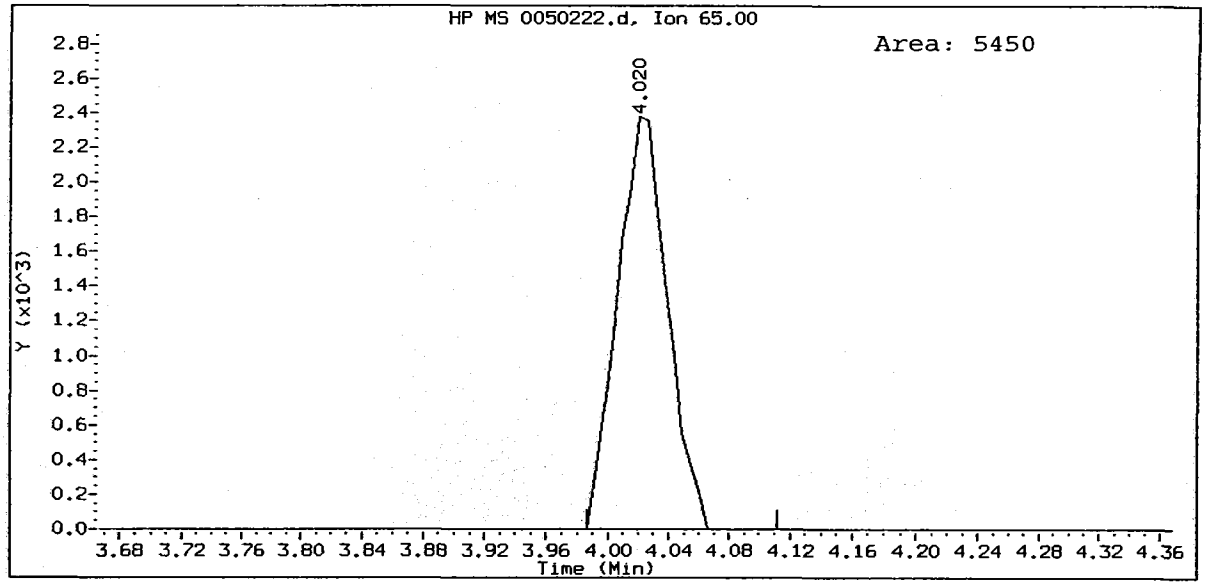
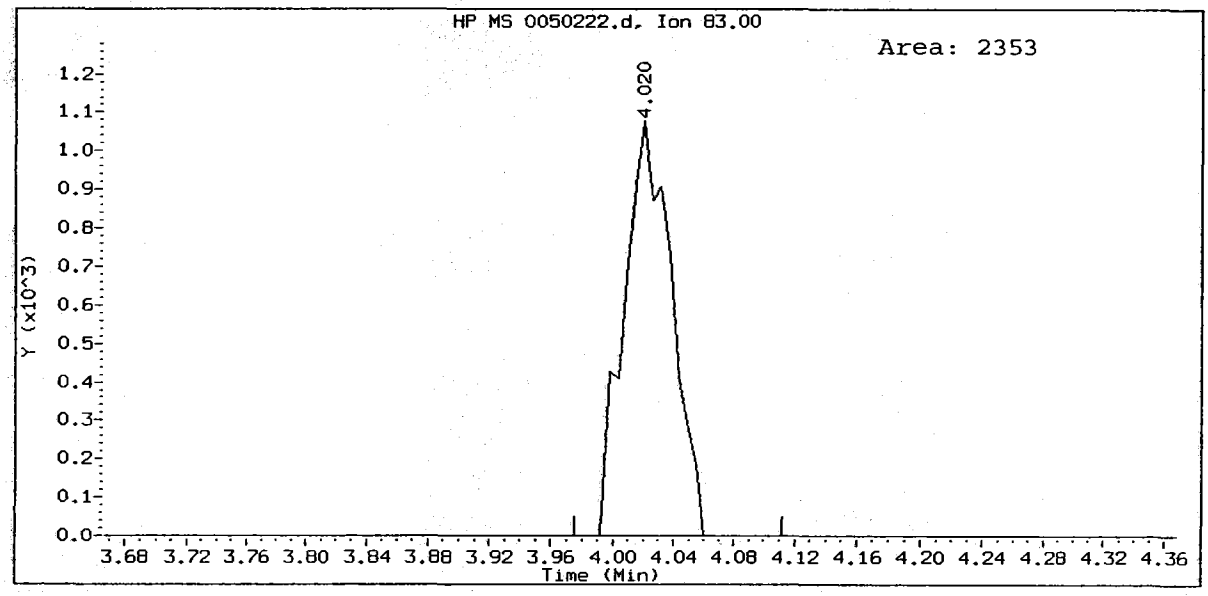
1,1-Dichloroethane Amount: 0.49







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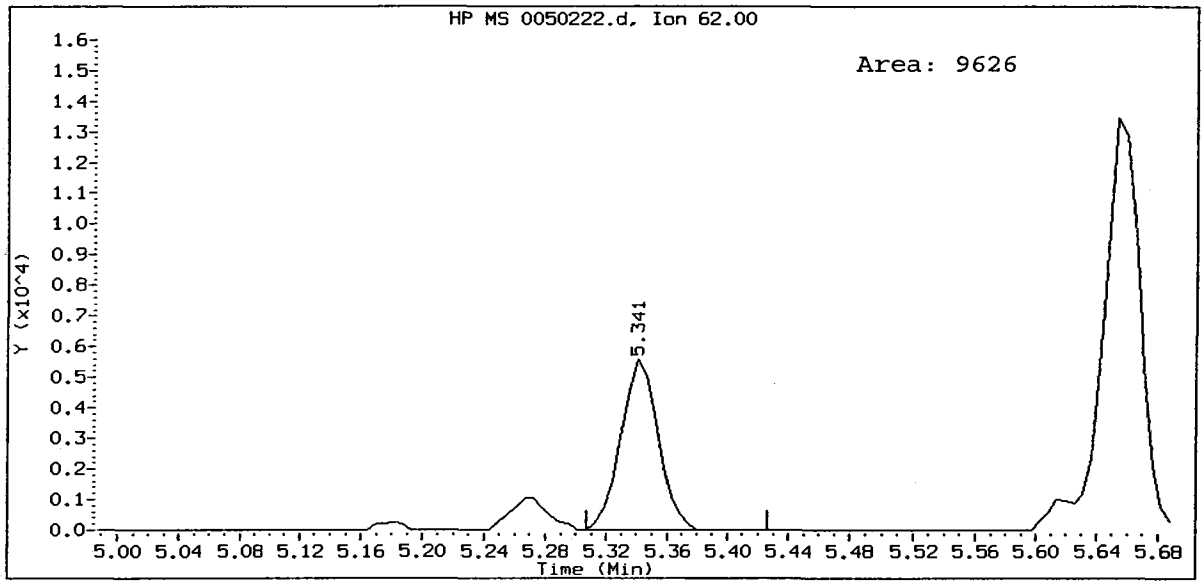
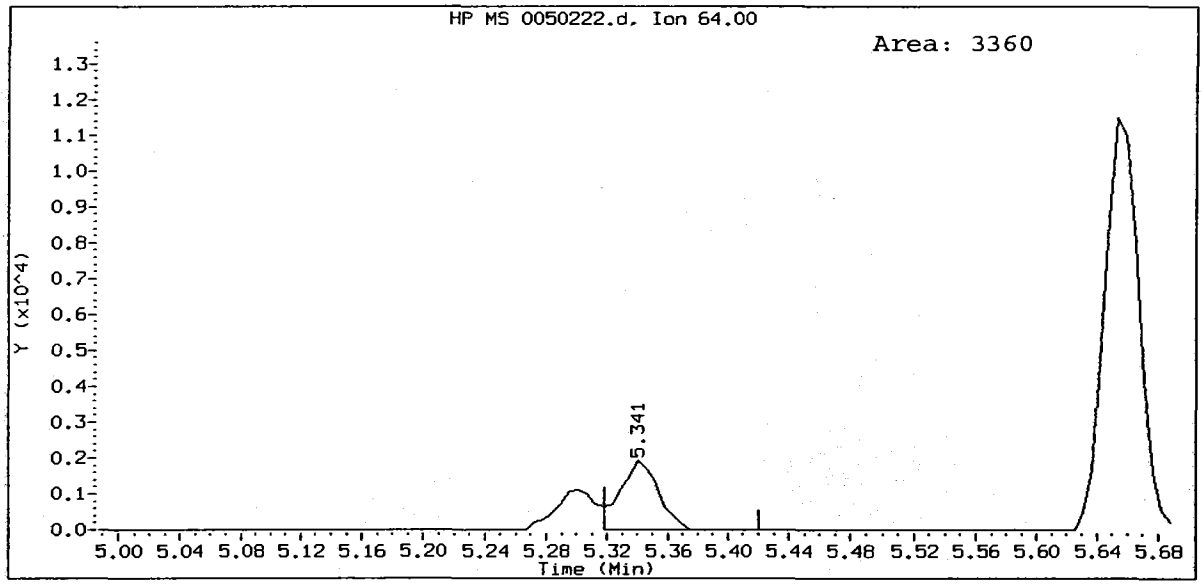
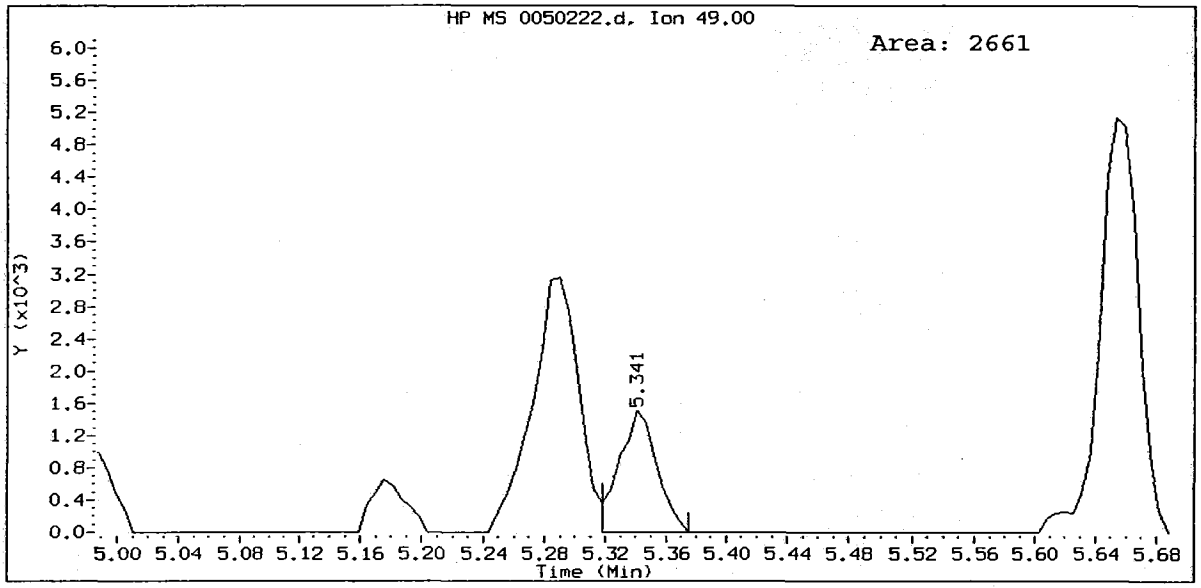
1,2-Dichloroethane Amount: 0.49







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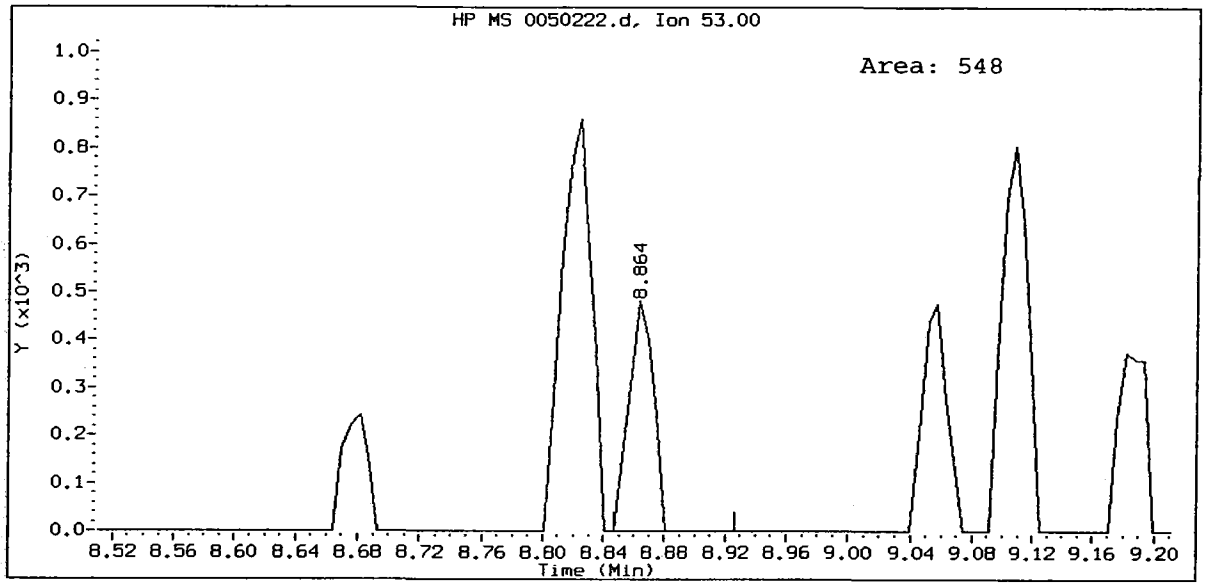
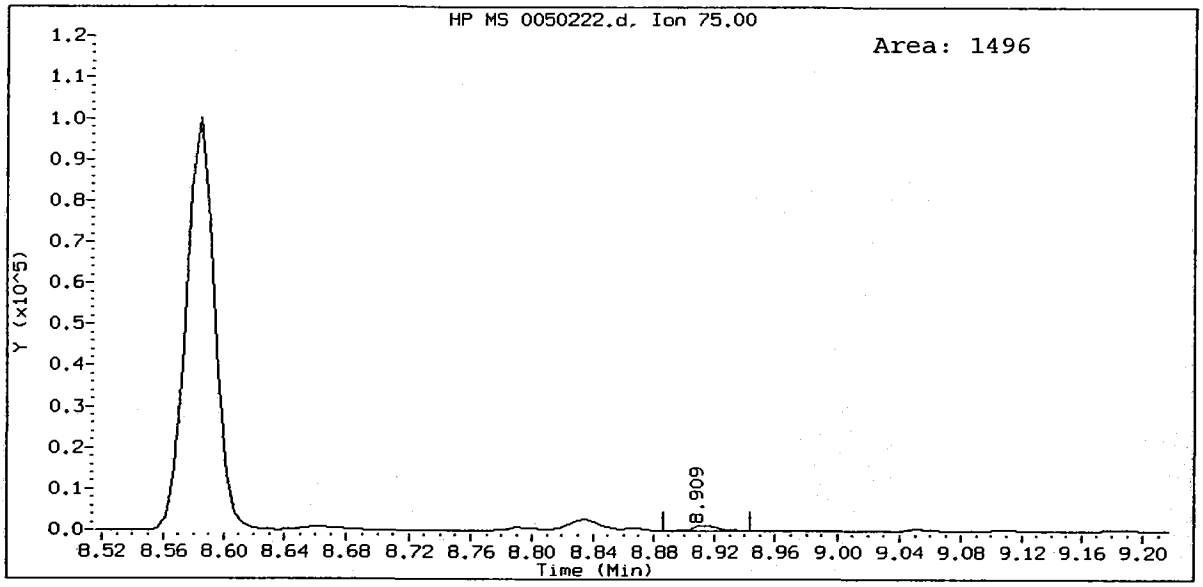
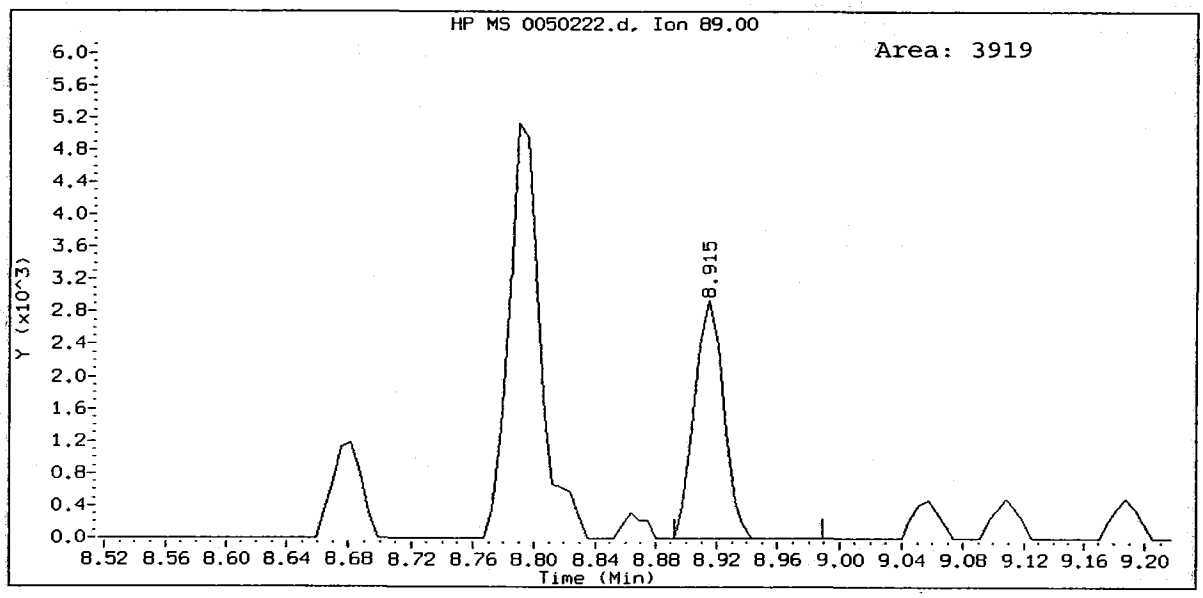
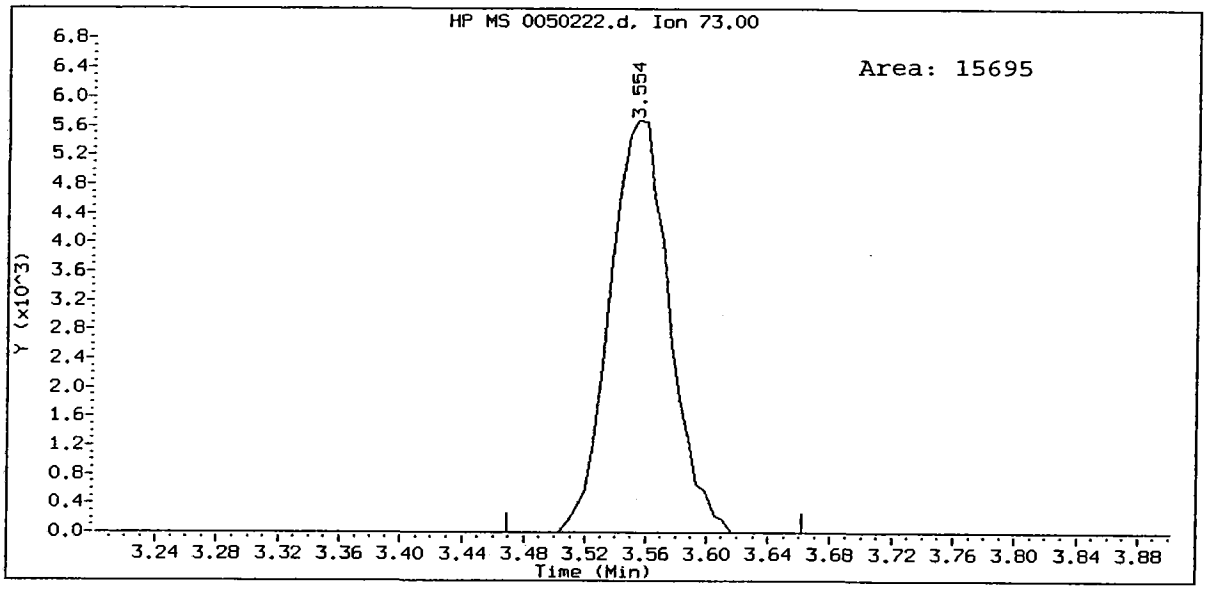
Trans-1,4-Dichloro 2-Butene Amount: 0.29

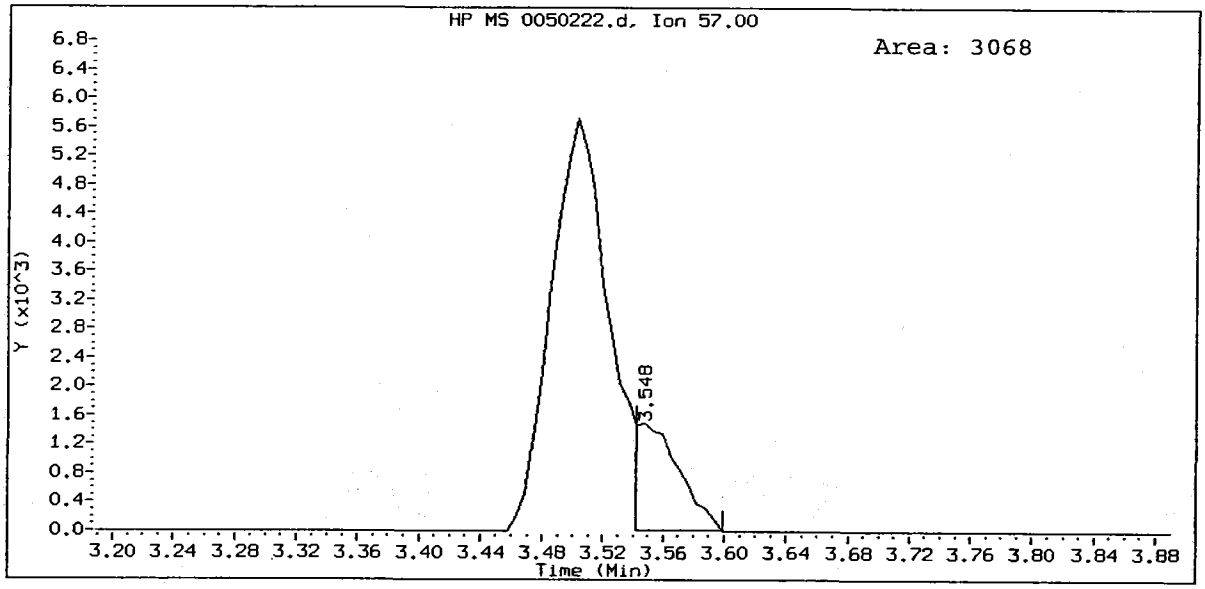


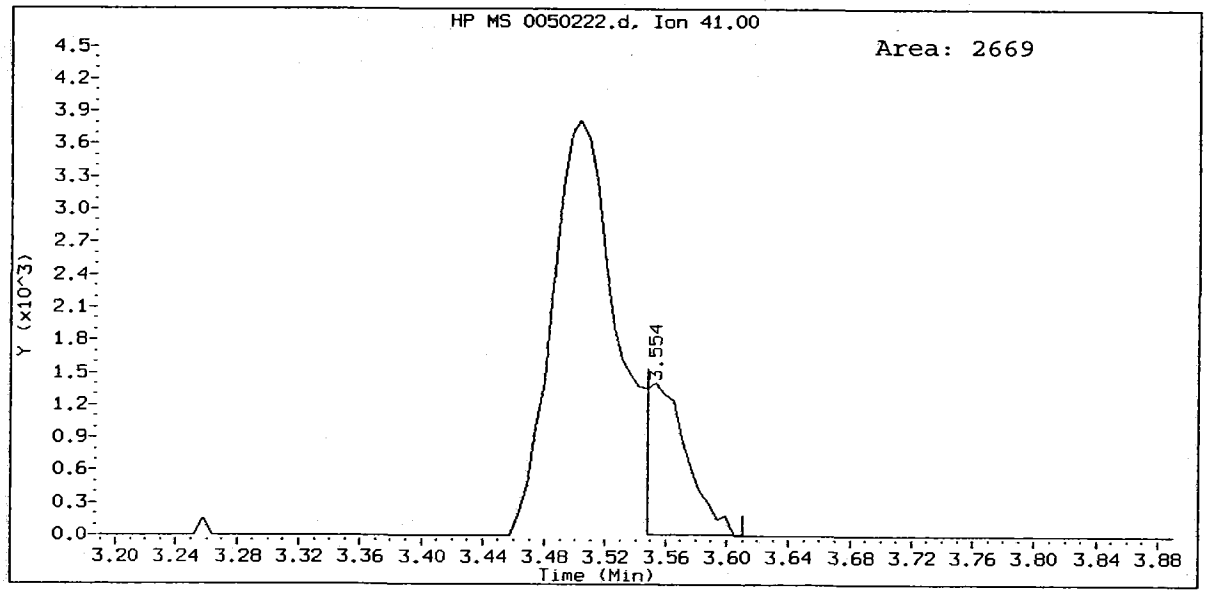




IC005, /chem1/nt10.i/22FEB10.b/0050222.d
Methyl tert butyl ether Amount: 0.53







Analytical Resources, Inc.

8260C

Data file : /chem1/nt10.i/22FEB10.b/0100222.d
Lab Smp Id: IC010 Client Smp ID: vstd3
Inj Date : 22-FEB-2010 18:11
Operator : ar Inst ID: nt10.i
Smp Info : IC010,10,10,0
Misc Info : 10-
Comment :
Method : /chem1/nt10.i/22FEB10.b/82600122L.m
Meth Date : 23-Feb-2010 15:01 aron Quant Type: ISTD
Cal Date : 22-FEB-2010 15:12 Cal File: 6000222.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	10.00000	Purge Volume (mL)
Sa	10.00000	Sample Amount (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Dichlorodifluoromethane	85	1.379	1.385	(0.262)	9479	1.00000	0.8722(M)
2 Chloromethane	50	1.539	1.545	(0.292)	17629	1.00000	1.084(M)
3 Vinyl Chloride	62	1.601	1.613	(0.304)	18004	1.00000	0.9314(M)
4 Bromomethane	94	1.886	1.892	(0.358)	28908	1.00000	1.734(M)
5 Chloroethane	64	1.994	2.000	(0.379)	14086	1.00000	0.9280(M)
6 Trichlorofluoromethane	101	2.119	2.125	(0.402)	25458	1.00000	0.9370(M)
8 Acrolein	56	2.990	2.996	(0.568)	5916	5.00000	4.742
9 112Trichloro122Trifluoroethane	101	2.660	2.666	(0.505)	16502	1.00000	0.9102(M)
10 Acetone	43	3.326	3.326	(0.631)	10427	5.00000	5.222
11 1,1-Dichloroethene	96	2.609	2.609	(0.495)	19620	1.00000	0.9098(M)
12 Bromoethane	108	2.870	2.882	(0.545)	12568	1.00000	0.9550
13 Iodomethane	142	2.739	2.740	(0.520)	32042	1.00000	1.099(M)
14 Methylene Chloride	84	3.240	3.252	(0.615)	16912	1.00000	0.9415
15 Acrylonitrile	53	4.083	4.089	(0.775)	2341	1.00000	0.9206(T)
16 Methyl tert butyl ether	73	3.548	3.554	(0.674)	31142	1.00000	0.9821(M)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
17 Carbon Disulfide	76	2.609	2.615	(0.495)	60330	1.00000	0.8544
18 Trans-1,2-Dichloroethene	96	3.411	3.411	(0.648)	21268	1.00000	0.9386
20 Vinyl Acetate	43	4.282	4.282	(0.813)	19702	1.00000	0.9826 (M)
21 1,1-Dichloroethane	63	4.014	4.020	(0.762)	34086	1.00000	0.9233
22 2-Butanone	72	4.993	4.994	(0.948)	5930	5.00000	4.618
23 2,2-Dichloropropane	77	4.583	4.584	(0.870)	14085	1.00000	0.9589
24 Cis-1,2-Dichloroethene	96	4.498	4.498	(0.854)	23827	1.00000	0.9425
* 25 Pentafluorobenzene	168	5.266	5.272	(1.000)	433328	10.0000	
26 Chloroform	83	4.731	4.737	(0.898)	38300	1.00000	0.9738
27 Bromochloromethane	128	4.657	4.663	(0.884)	8115	1.00000	0.9450
$ 28 Dibromofluoromethane	111	4.879	4.880	(0.926)	177182	10.0000	9.804
29 1,1,1-Trichloroethane	97	4.885	4.885	(0.928)	29129	1.00000	0.9522
30 1,1-Dichloropropene	75	4.982	4.982	(0.881)	33823	1.00000	0.9729
31 Carbon Tetrachloride	117	4.822	4.823	(0.853)	24639	1.00000	0.9688
$ 32 d4-1,2-Dichloroethane	65	5.289	5.289	(1.004)	156257	10.0000	9.832
33 1,2-Dichloroethane	62	5.340	5.341	(0.945)	21138	1.00000	1.001
34 Benzene	78	5.175	5.181	(0.915)	96110	1.00000	0.9786
* 35 1,4-Difluorobenzene	114	5.653	5.659	(1.000)	700220	10.0000	
36 Trichloroethene	95	5.619	5.620	(0.994)	24655	1.00000	0.9369
37 1,2-Dichloropropane	63	6.000	6.007	(1.061)	20441	1.00000	0.9614
38 Bromodichloromethane	83	6.052	6.052	(1.070)	25318	1.00000	0.9416
39 Dibromomethane	93	5.926	5.927	(1.048)	8094	1.00000	0.9526
40 2-Chloroethyl Vinyl Ether	63	6.467	6.468	(1.144)	4966	1.00000	0.9839
41 4-Methyl-2-Pentanone	58	6.945	6.946	(1.228)	16600	5.00000	4.426
42 Cis 1,3-dichloropropene	75	6.501	6.502	(1.150)	27406	1.00000	0.9158
$ 43 d8-Toluene	98	6.632	6.633	(1.173)	857490	10.0000	10.050
44 Toluene	92	6.666	6.667	(1.179)	63962	1.00000	0.9548
45 Trans 1,3-Dichloropropene	75	6.962	6.963	(1.232)	18913	1.00000	0.8595
46 2-Hexanone	43	7.526	7.526	(0.975)	25385	5.00000	4.587
47 1,1,2-Trichloroethane	97	7.076	7.076	(1.252)	12368	1.00000	0.9482
48 1,3-Dichloropropane	76	7.264	7.264	(0.941)	22174	1.00000	0.9754
49 Tetrachloroethene	166	6.928	6.928	(0.898)	26706	1.00000	0.9686
50 Chlorodibromomethane	129	7.196	7.196	(0.932)	14243	1.00000	0.9346
51 1,2-Dibromoethane	107	7.361	7.361	(1.302)	10609	1.00000	0.9157
52 d5-Chlorobenzene	117	7.719	7.720	(1.000)	634278	10.0000	
53 Chlorobenzene	112	7.731	7.731	(1.001)	64023	1.00000	0.9604
54 Ethyl Benzene	91	7.748	7.748	(1.004)	124757	1.00000	0.9863
55 1,1,1,2-Tetrachloroethane	131	7.776	7.776	(1.007)	19855	1.00000	0.9734
56 m,p-xylene	106	7.850	7.850	(1.017)	91823	2.00000	1.926
58 o-Xylene	106	8.157	8.158	(1.057)	41661	1.00000	0.9643
59 Styrene	104	8.197	8.198	(1.062)	64282	1.00000	0.9455
60 Isopropyl Benzene	105	8.379	8.380	(0.891)	110283	1.00000	1.004
61 Bromoform	173	8.214	8.215	(0.873)	5778	1.00000	0.8985
62 1,1,2,2-Tetrachloroethane	83	8.738	8.733	(0.929)	9502	1.00000	1.008
63 4-Bromofluorobenzene	95	8.584	8.585	(1.112)	254598	10.0000	9.894
64 1,2,3-Trichloropropane	110	8.835	8.835	(0.939)	2828	1.00000	0.9925
65 Trans-1,4-Dichloro 2-Butene	53	8.869	8.863	(0.943)	1161	1.00000	0.6647

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
66	N-Propyl Benzene	91	8.681	8.681	(0.923)	125776	1.00000	1.003
67	Bromobenzene	156	8.664	8.664	(0.921)	20998	1.00000	0.9987
68	1,3,5-Trimethyl Benzene	105	8.823	8.824	(0.938)	82346	1.00000	1.015
69	2-Chloro Toluene	91	8.795	8.795	(0.935)	79454	1.00000	1.009
70	4-Chloro Toluene	91	8.914	8.915	(0.947)	67095	1.00000	0.9835
71	T-Butyl Benzene	119	9.057	9.057	(0.962)	70797	1.00000	1.033
72	1,2,4-Trimethylbenzene	105	9.108	9.108	(0.968)	77640	1.00000	1.011
73	S-Butyl Benzene	105	9.187	9.188	(0.976)	102765	1.00000	1.020
74	4-Isopropyl Toluene	119	9.296	9.296	(0.988)	77113	1.00000	1.003
75	1,3-Dichlorobenzene	146	9.352	9.353	(0.994)	33931	1.00000	0.9621
* 76	d4-1,4-Dichlorobenzene	152	9.409	9.410	(1.000)	208032	10.0000	
77	1,4-Dichlorobenzene	146	9.421	9.421	(1.001)	32547	1.00000	0.9671(Q)
78	N-Butyl Benzene	91	9.620	9.620	(1.022)	64179	1.00000	0.9771
$ 79	d4-1,2-Dichlorobenzene	152	9.734	9.734	(1.034)	164206	10.0000	10.150
80	1,2-Dichlorobenzene	146	9.739	9.740	(1.035)	26554	1.00000	1.001
81	1,2-Dibromo 3-Chloropropane	75	10.360	10.355	(1.101)	881	1.00000	1.047
82	1,2,4-Trichlorobenzene	180	10.883	10.878	(1.157)	12447	1.00000	0.9624
83	Hexachloro 1,3-Butadiene	225	10.855	10.855	(1.154)	9026	1.00000	1.173
84	Naphthalene	128	11.139	11.140	(1.184)	19396	1.00000	1.104
85	1,2,3-Trichlorobenzene	180	11.282	11.282	(1.199)	10028	1.00000	1.144

QC Flag Legend

I - Target compound detected outside RT window.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: 0100222.d
Lab Smp Id: IC010
Analysis Type: VOA
Quant Type: ISTD
Operator: ar
Method File: /chem1/nt10.i/22FEB10.b/82600122L.m
Misc Info: 10-

Calibration Date: 22-FEB-2010
Calibration Time: 17:11
Client Smp ID: vstd3
Level: LOW
Sample Type: WATER

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
25 Pentafluorobenzen	456228	228114	912456	433328	-5.02
35 1,4-Difluorobenze	740651	370326	1481302	700220	-5.46
52 d5-Chlorobenzene	686240	343120	1372480	634278	-7.57
76 d4-1,4-Dichlorobe	249963	124982	499926	208032	-16.77

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
25 Pentafluorobenzen	5.27	4.77	5.77	5.27	-0.12
35 1,4-Difluorobenze	5.66	5.16	6.16	5.65	-0.11
52 d5-Chlorobenzene	7.72	7.22	8.22	7.72	-0.01
76 d4-1,4-Dichlorobe	9.41	8.91	9.91	9.41	0.00

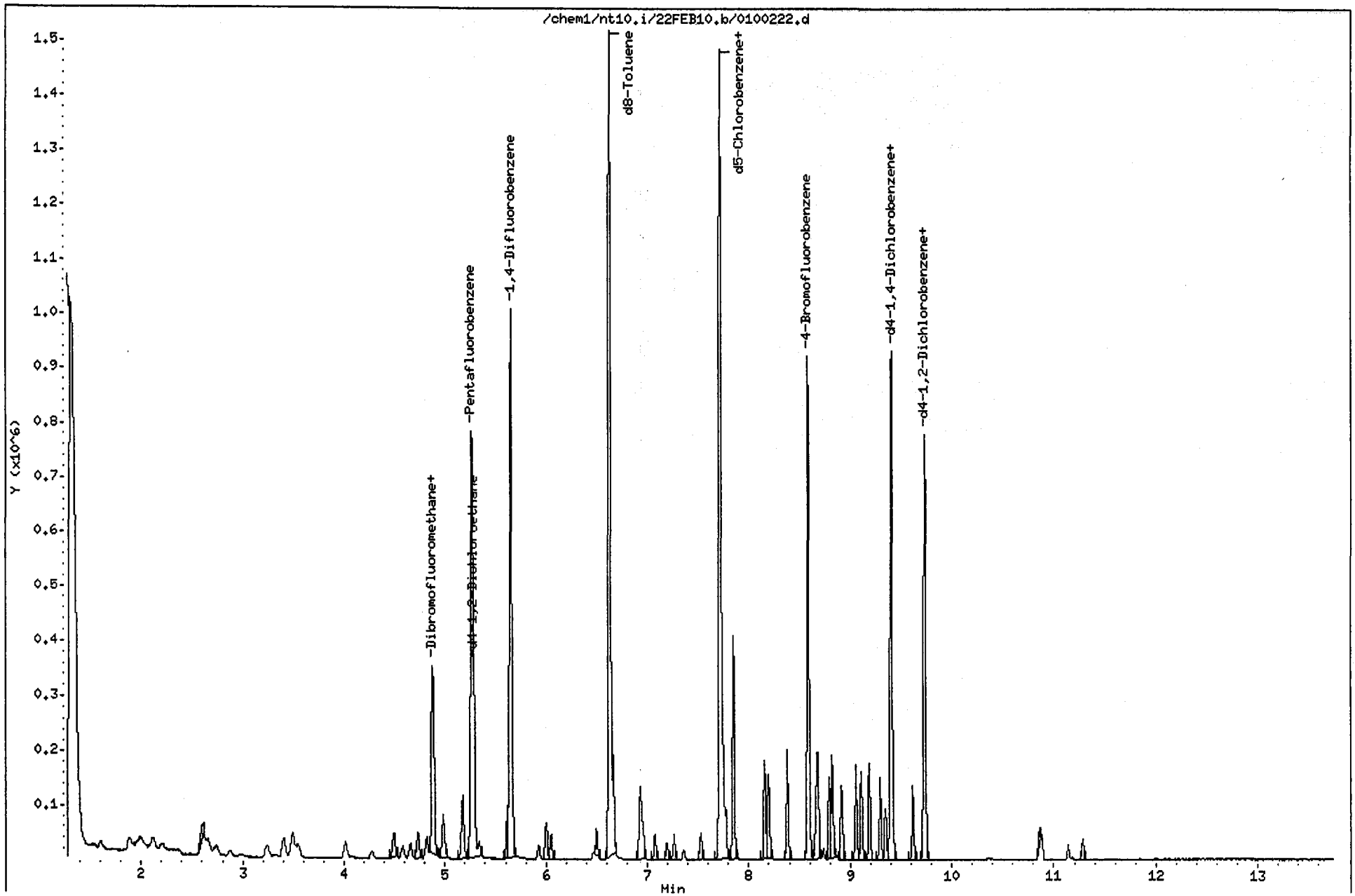
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem1/nt10.i/22FEB10.b/0100222.d
Date : 22-FEB-2010 18:11
Client ID: vstd3
Sample Info: IC010,10,10,0

Instrument: nt10.i

Operator: ar
Column diameter: 0.18

Column phase: RTX502.2



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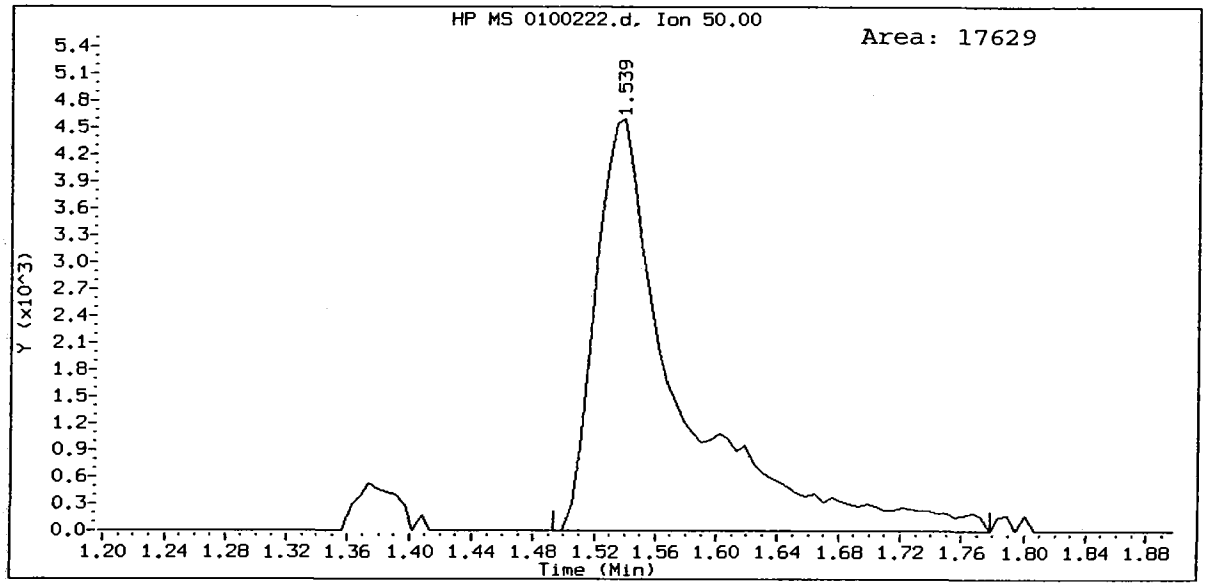
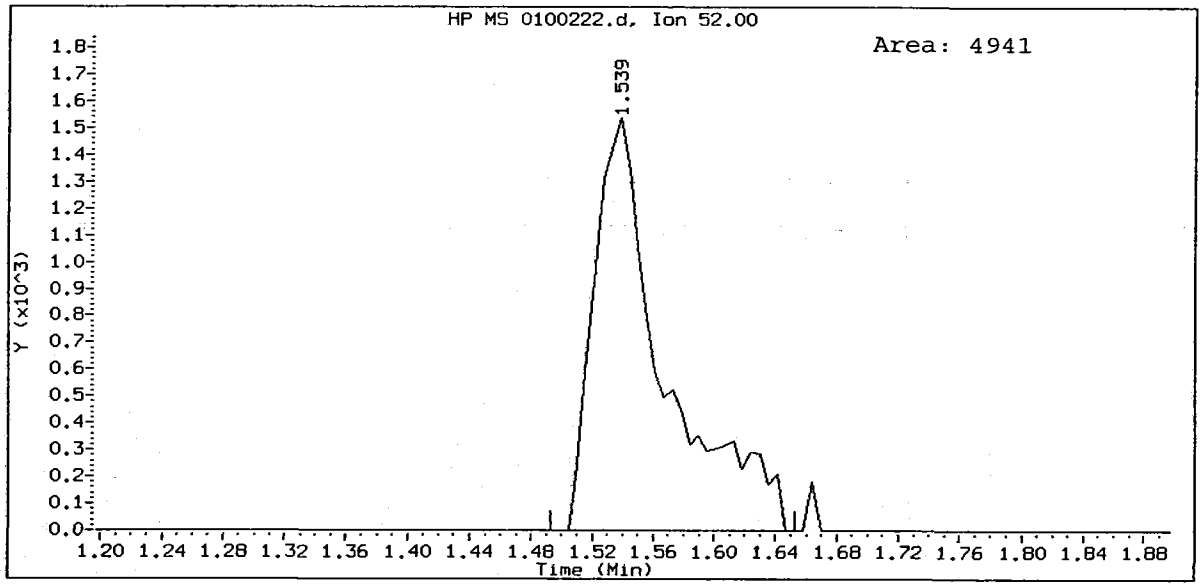
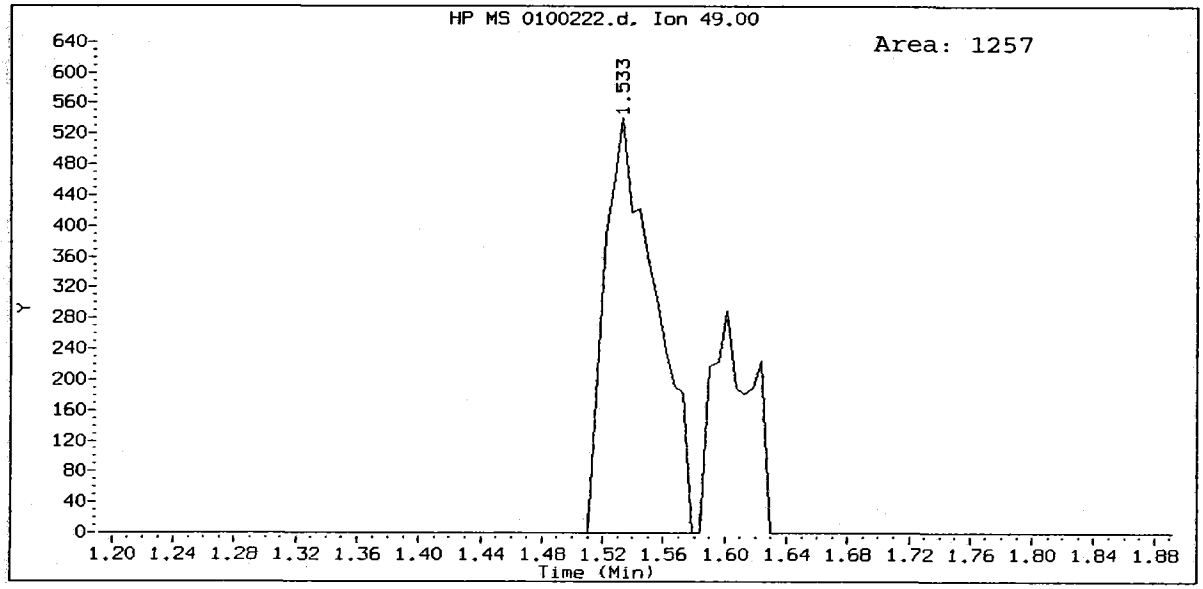
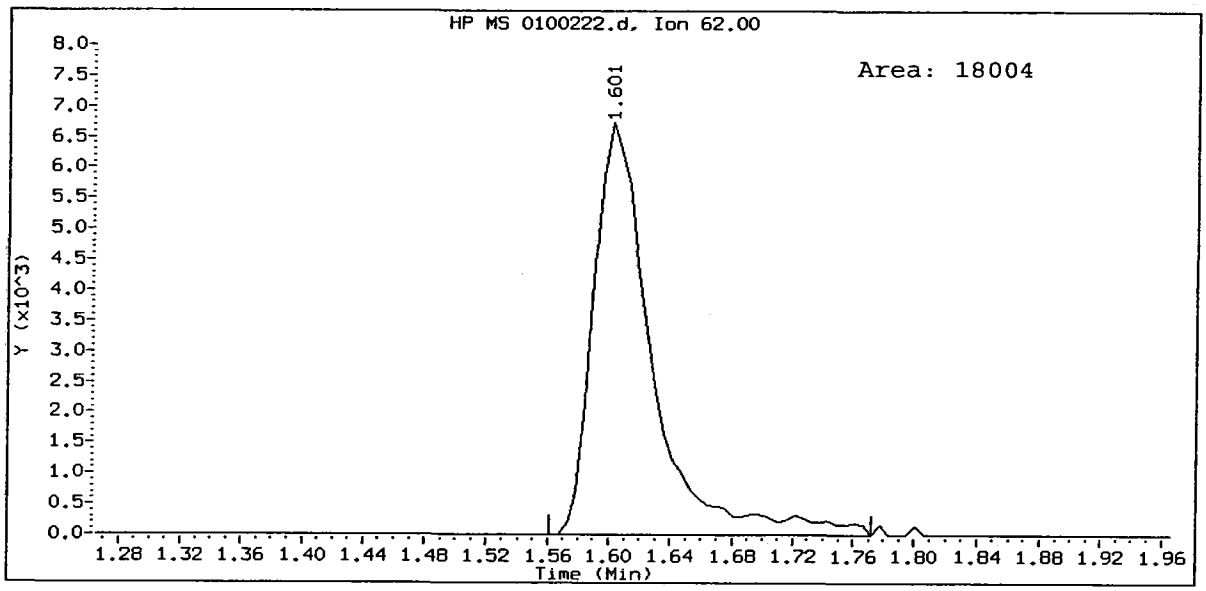
Chloromethane Amount: 1.08

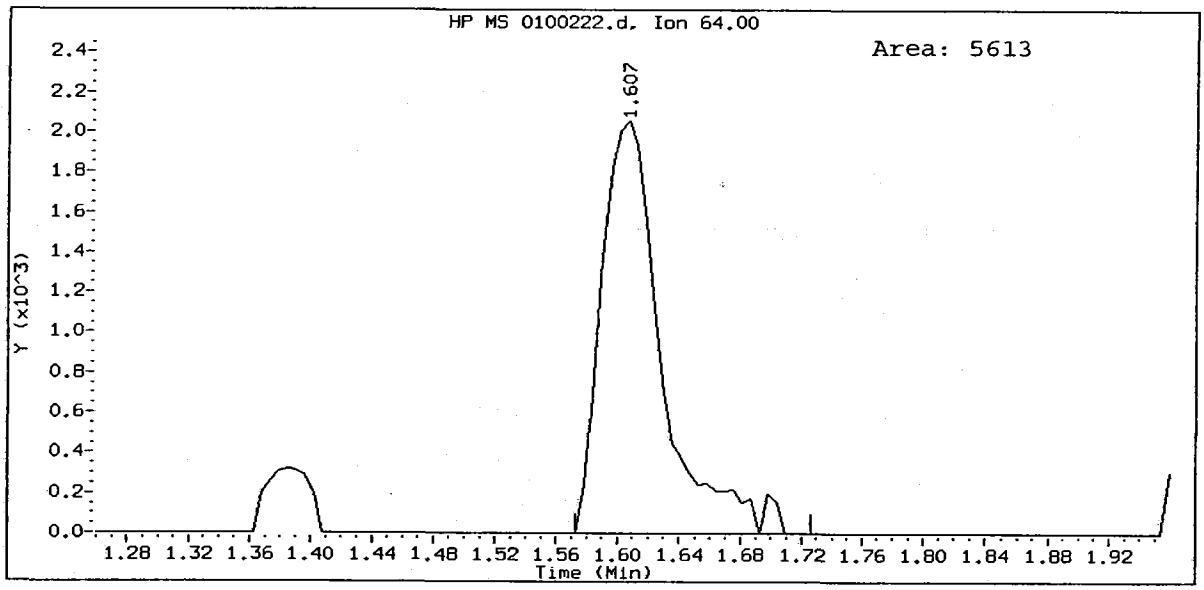


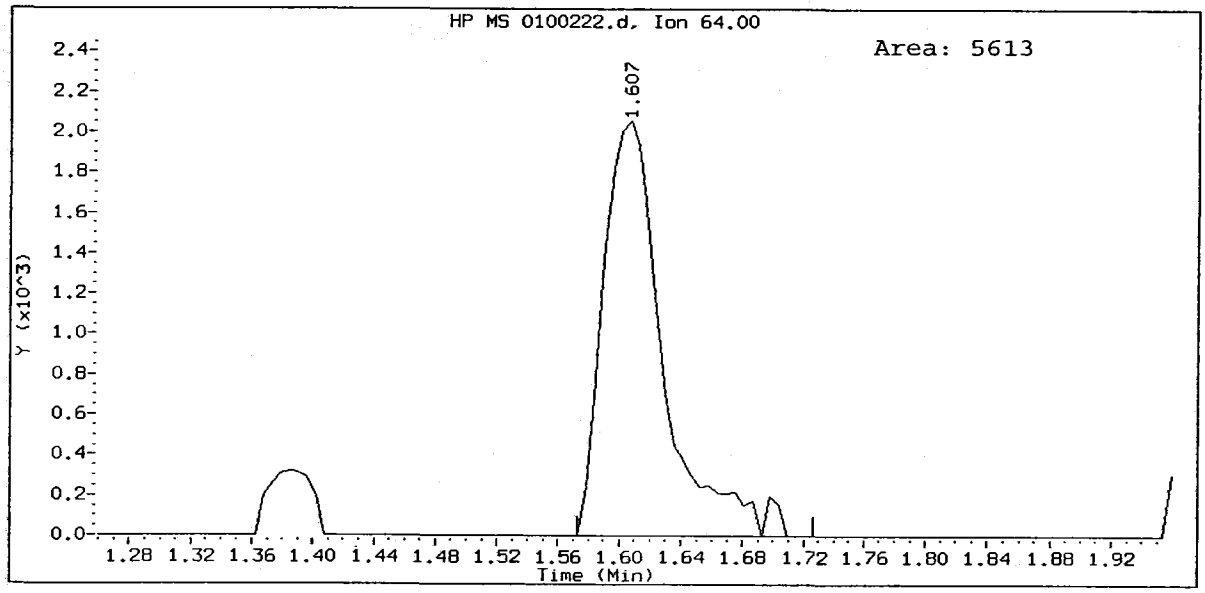




IC010, /chem1/nt10.i/22FEB10.b/0100222.d
Vinyl Chloride Amount: 0.93







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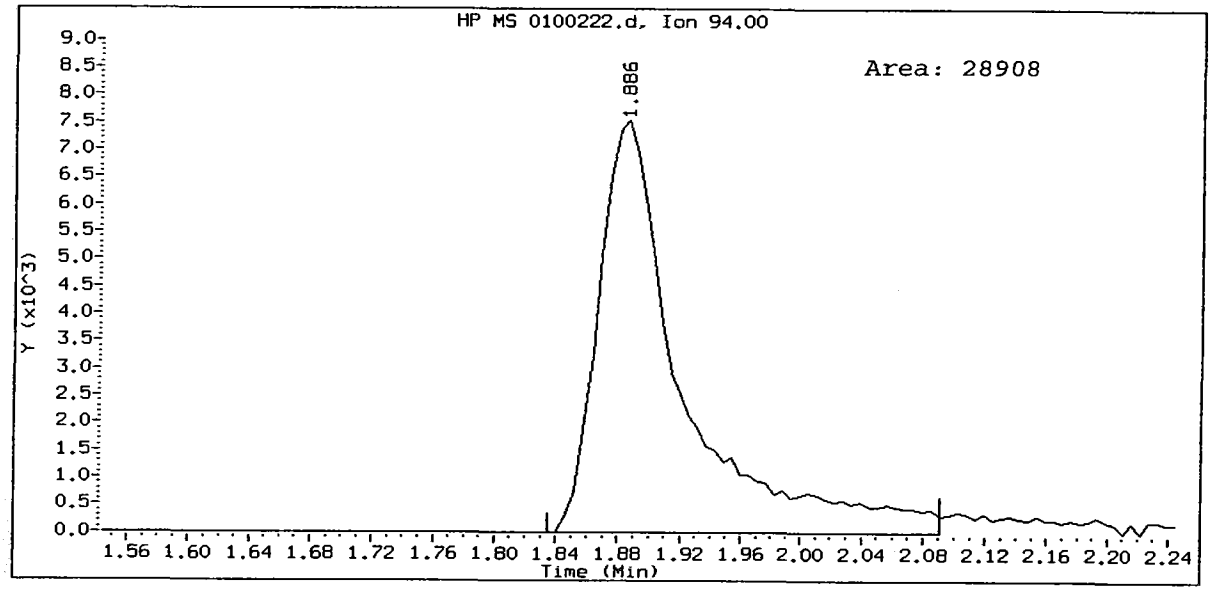
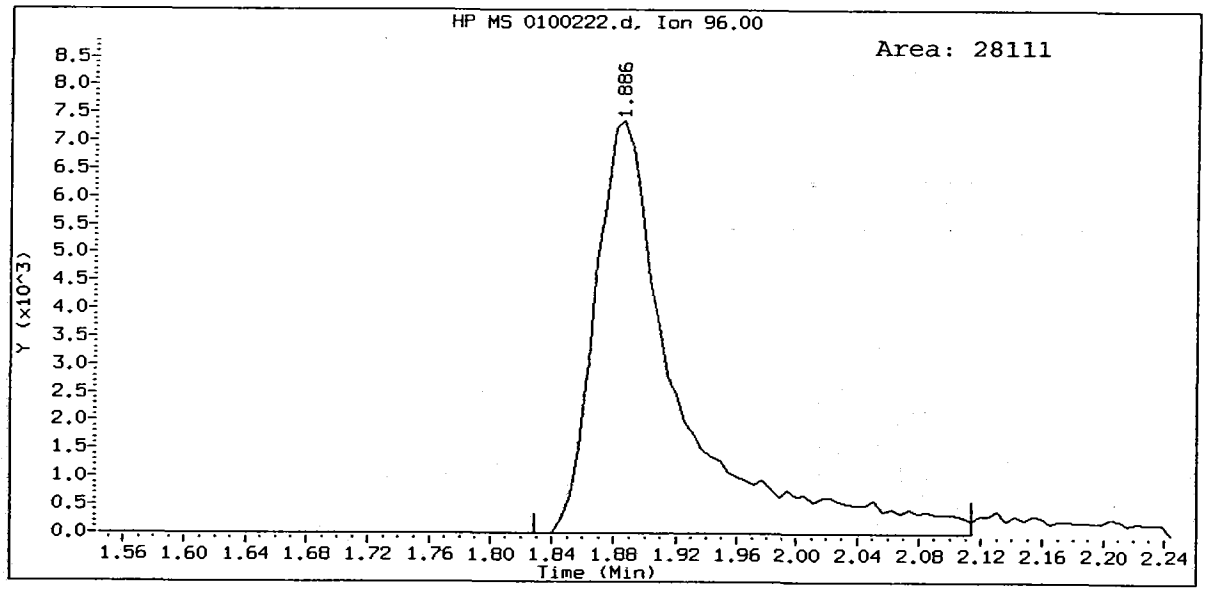
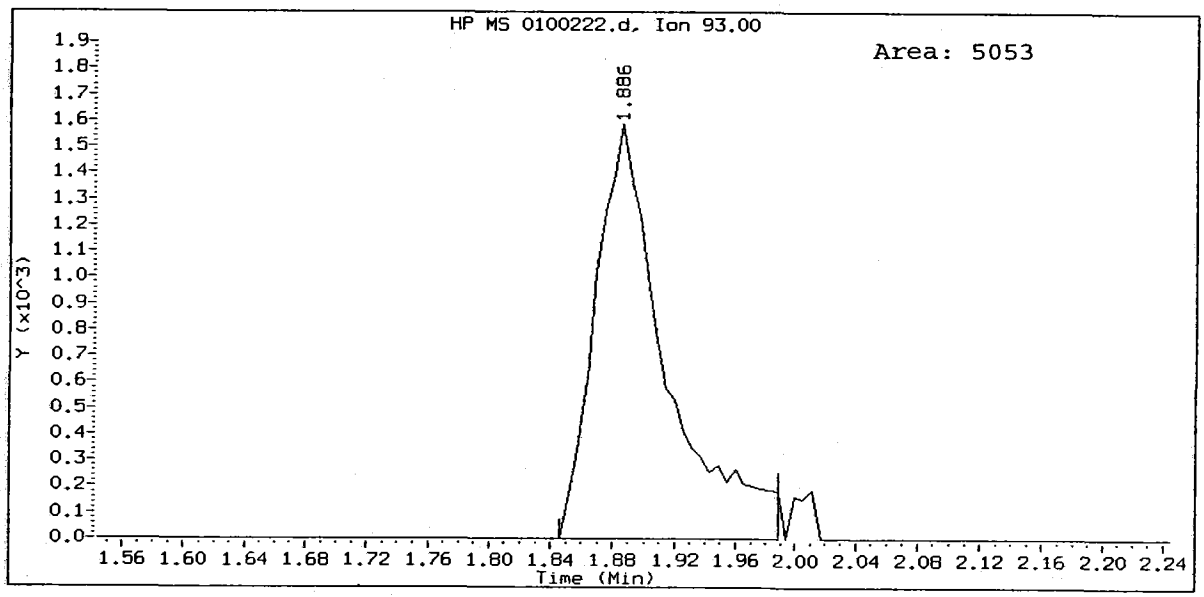
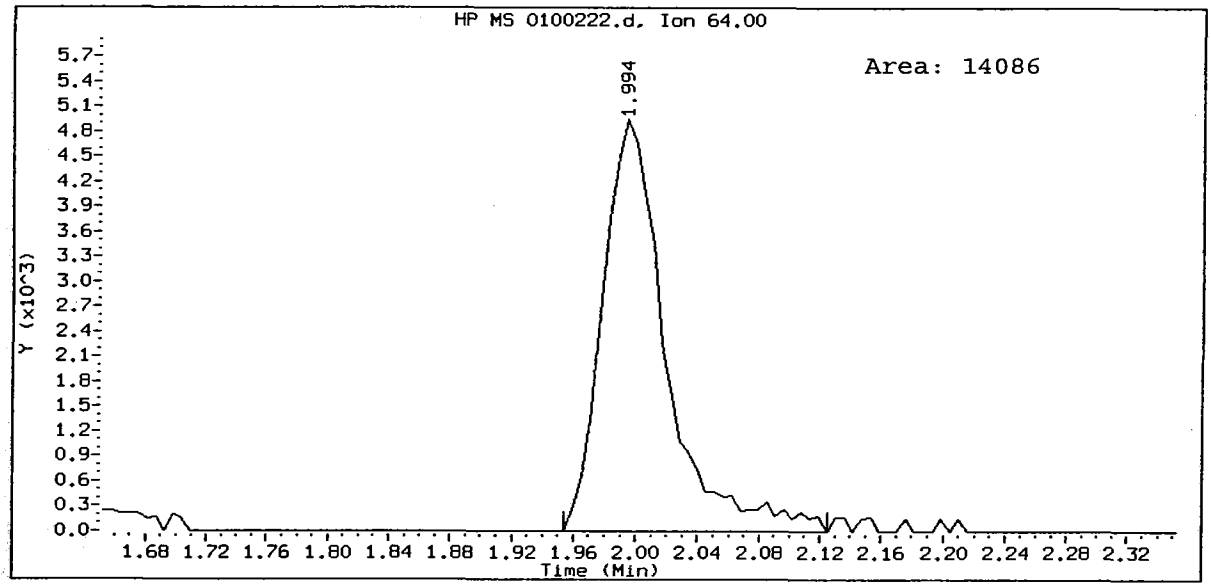
Bromomethane Amount: 1.73

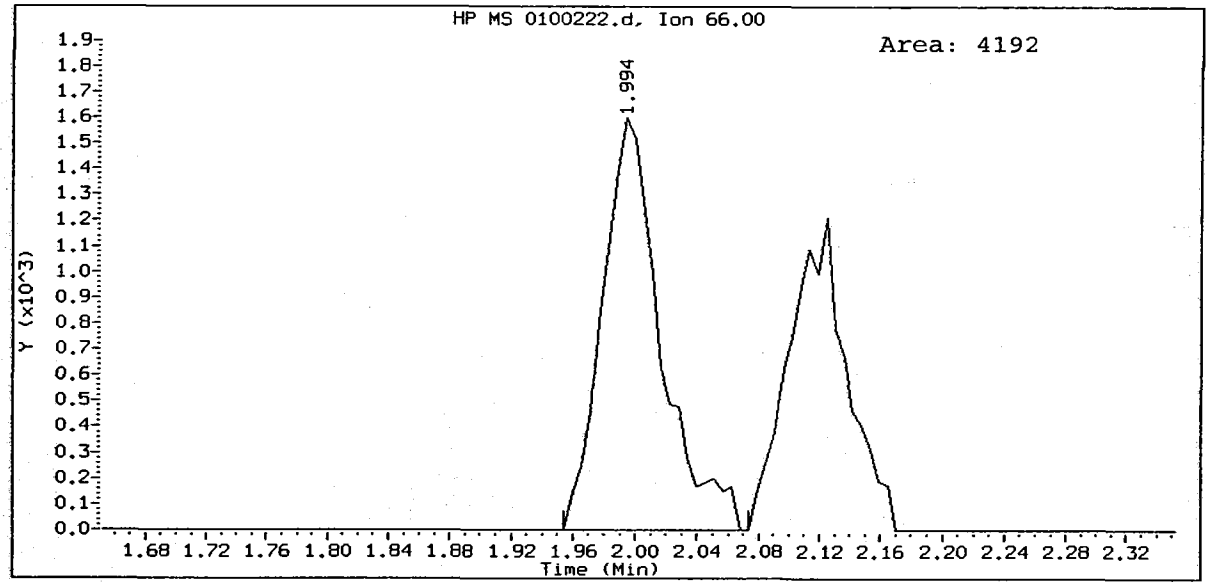


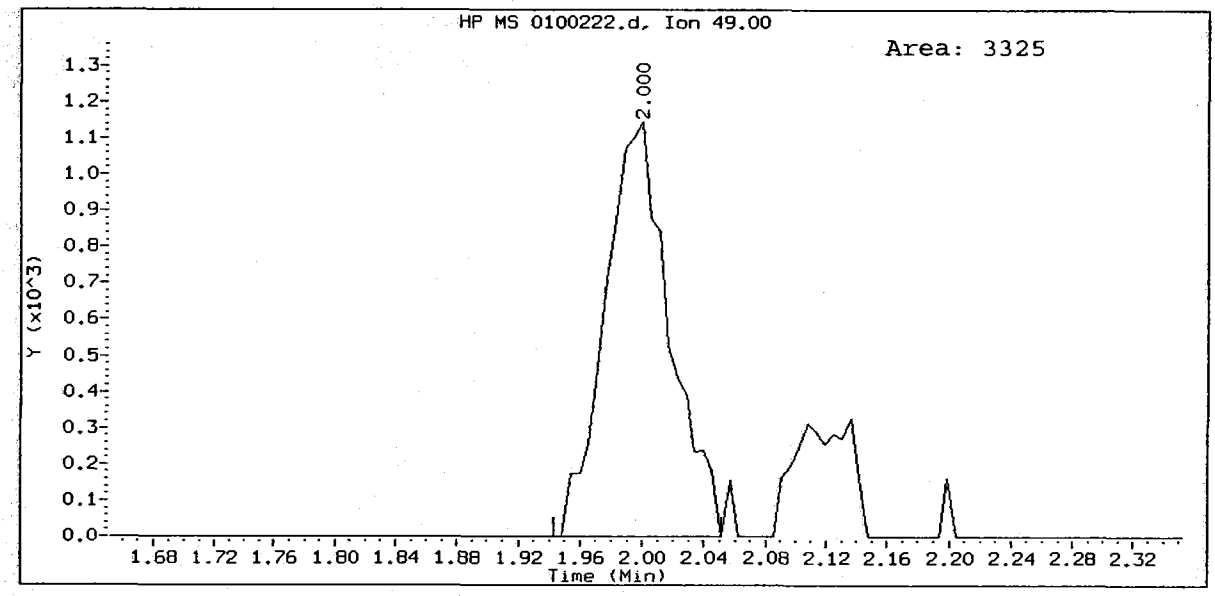




IC010, /chem1/nt10.i/22FEB10.b/0100222.d
Chloroethane Amount: 0.93







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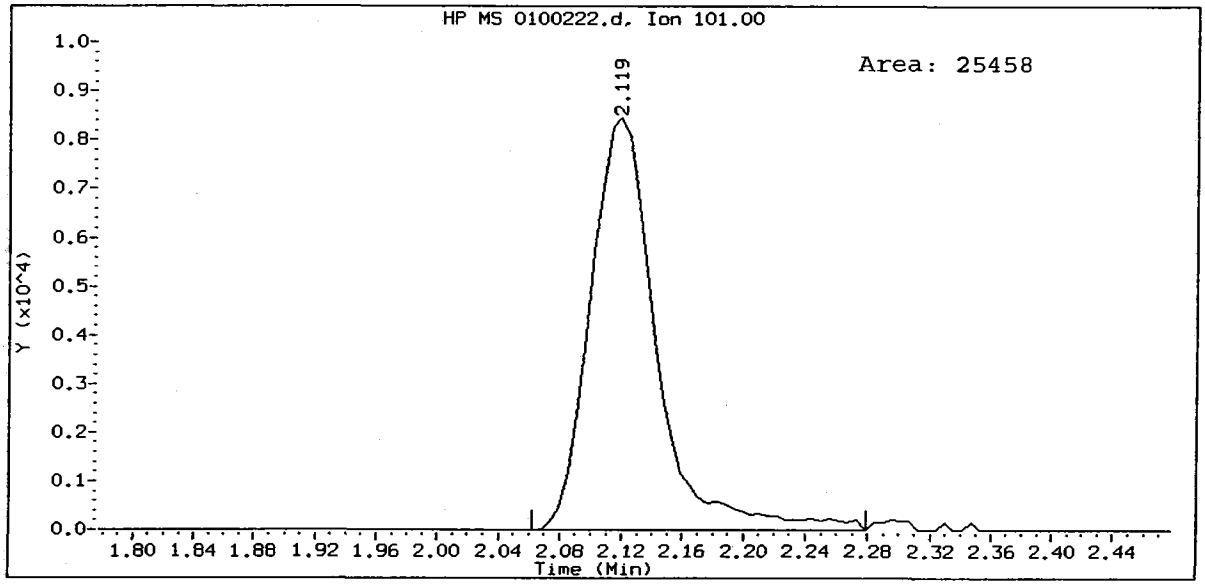
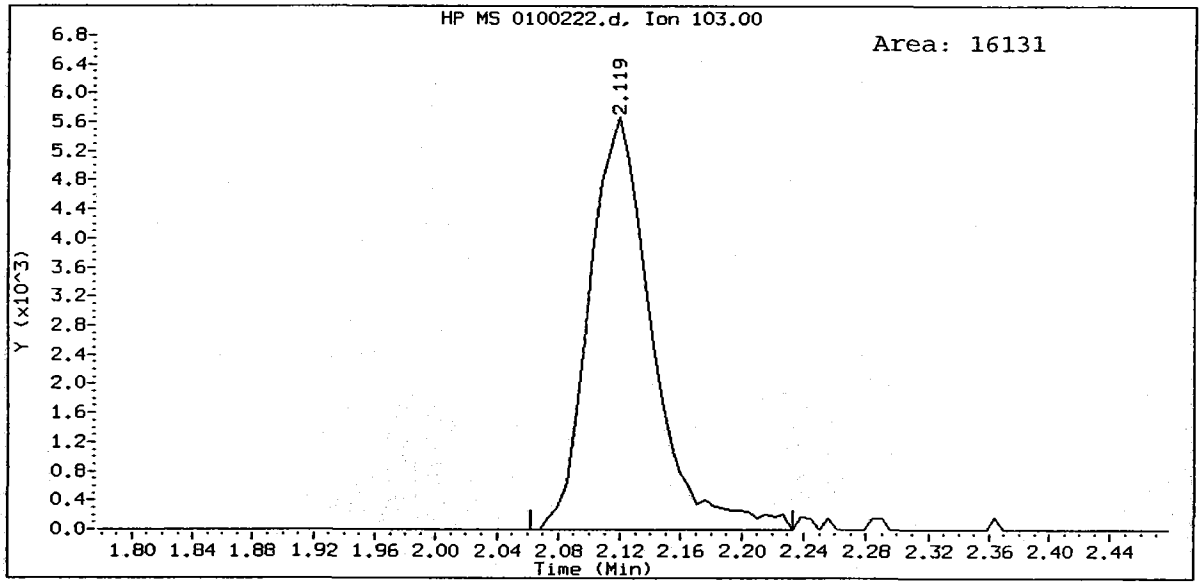
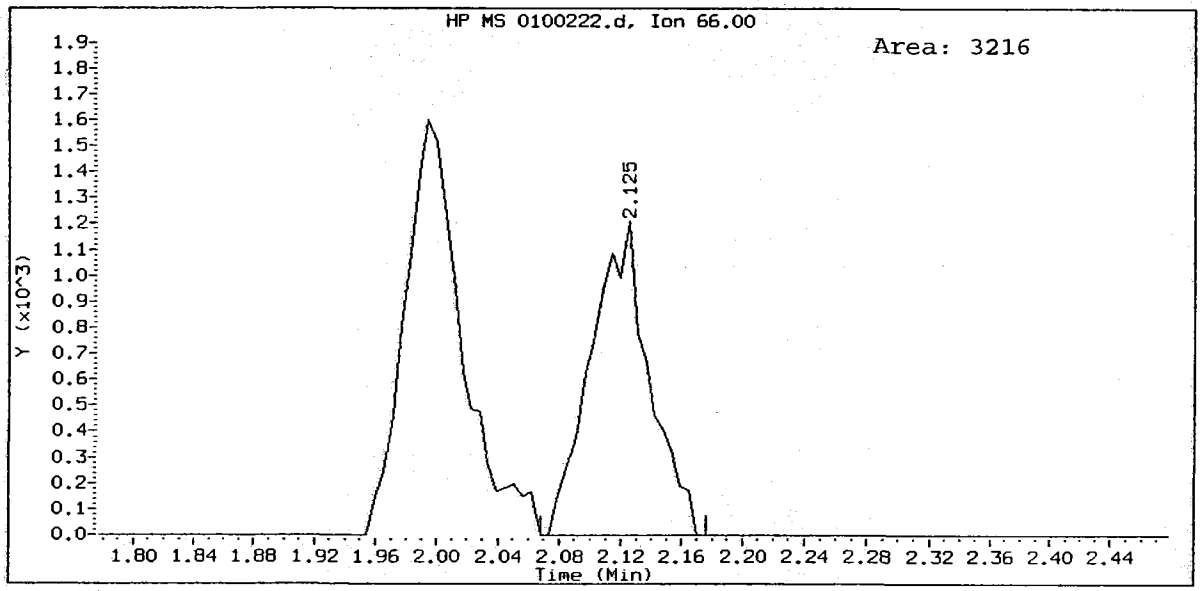
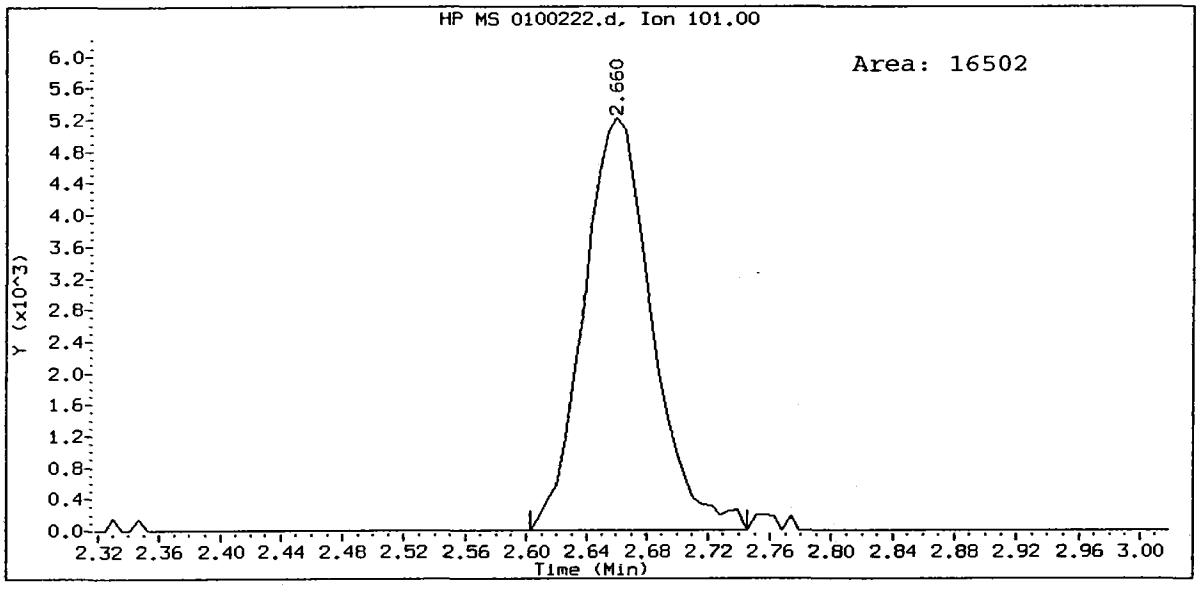
Trichlorofluoromethane Amount: 0.94

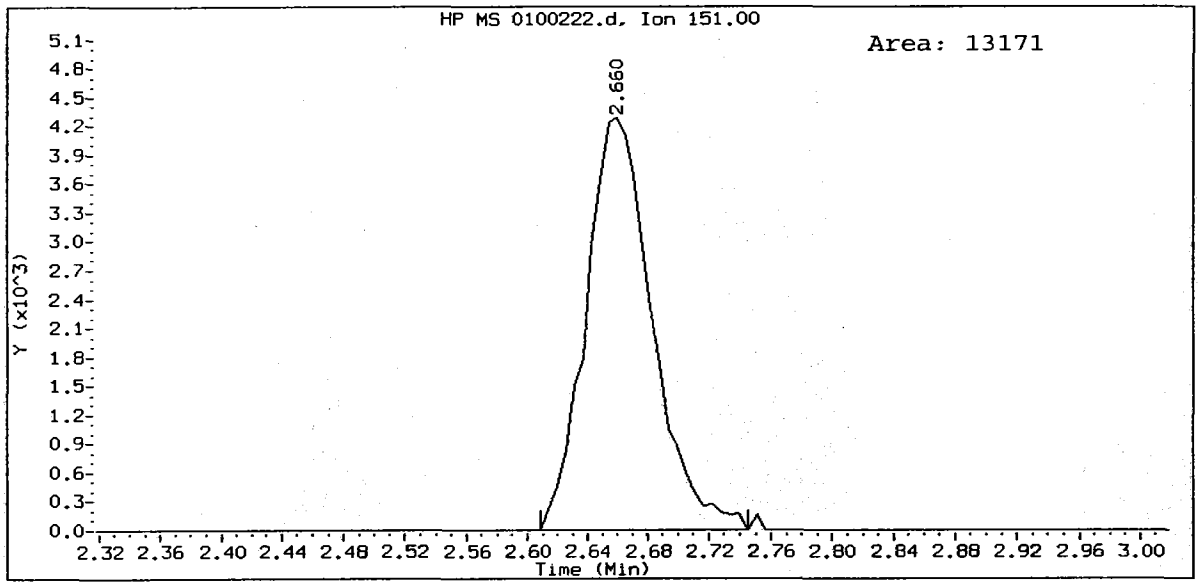


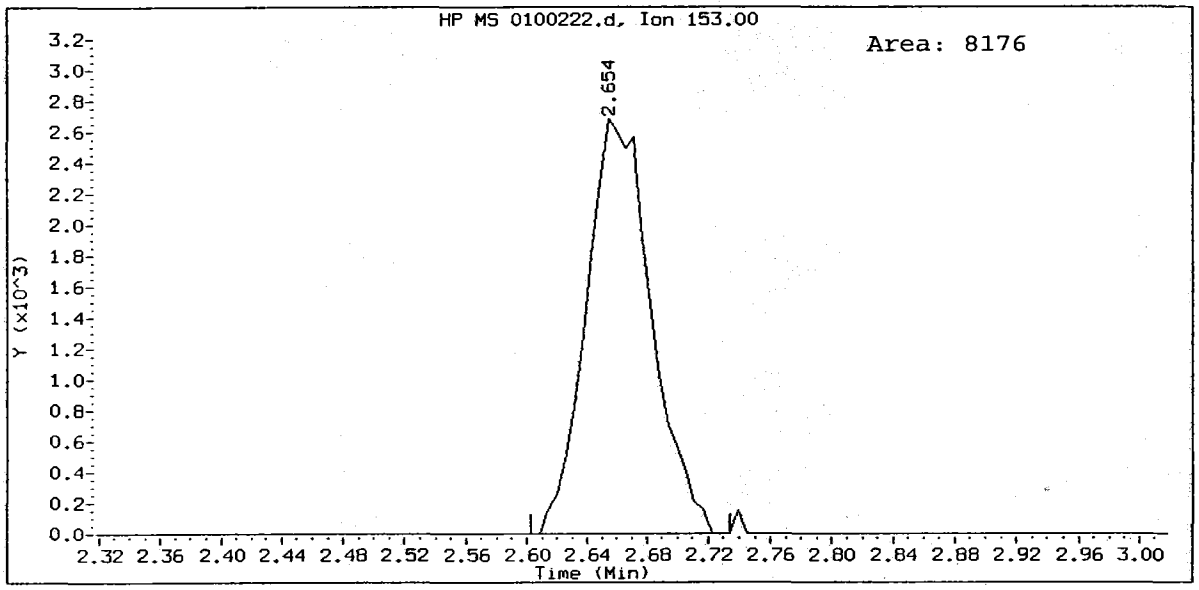




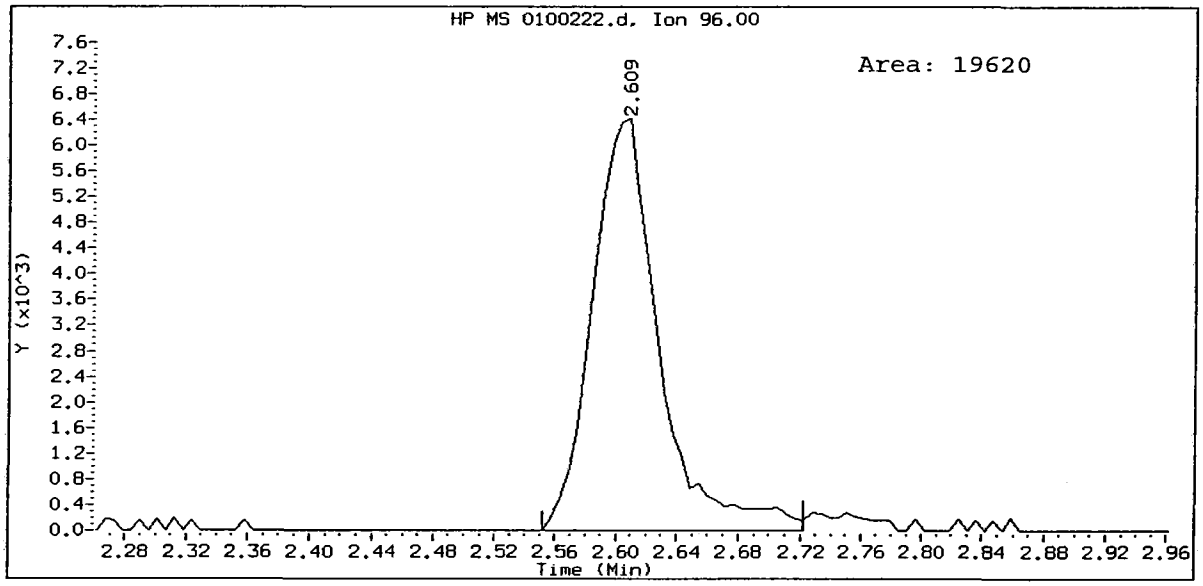
IC010, /chem1/nt10.i/22FEB10.b/0100222.d
112Trichloro122Trifluoroethane Amount: 0.91

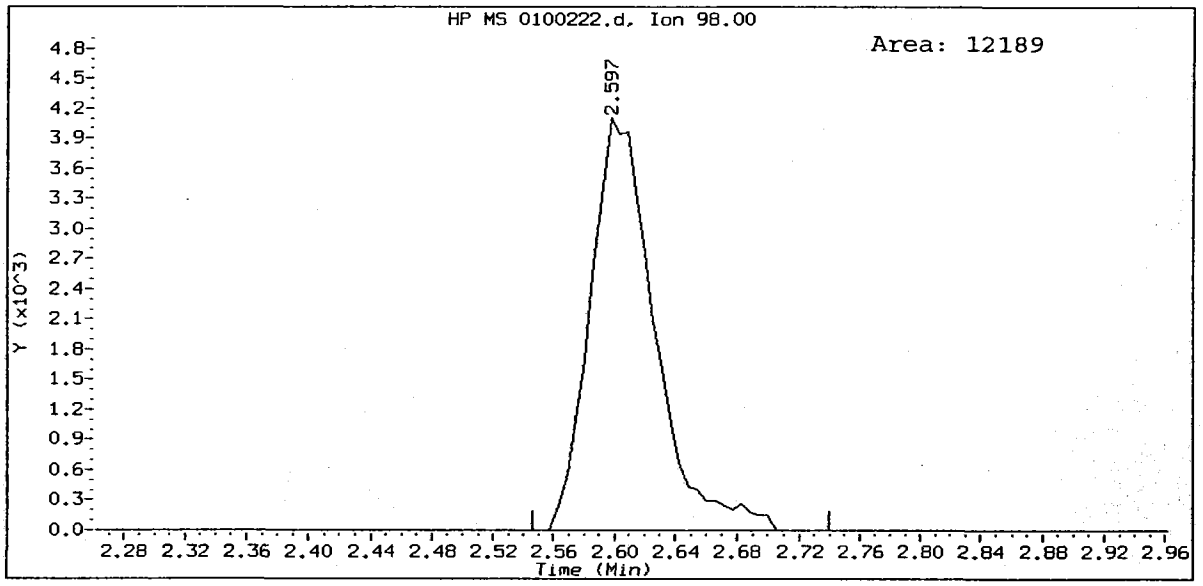


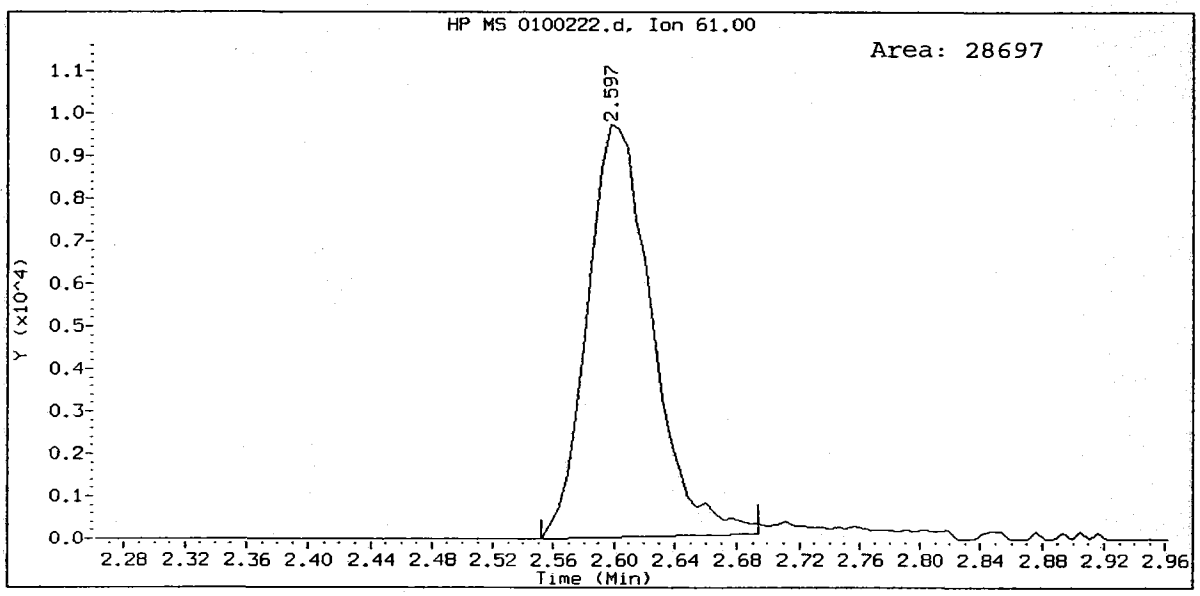




IC010, /chem1/nt10.i/22FEB10.b/0100222.d
1,1-Dichloroethene Amount: 0.91







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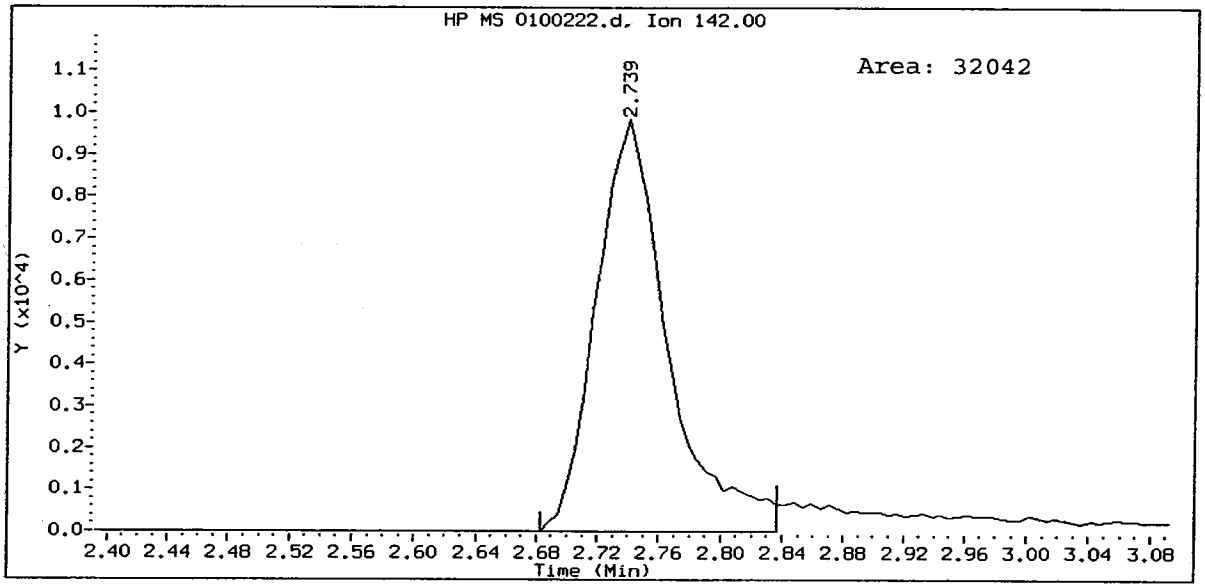
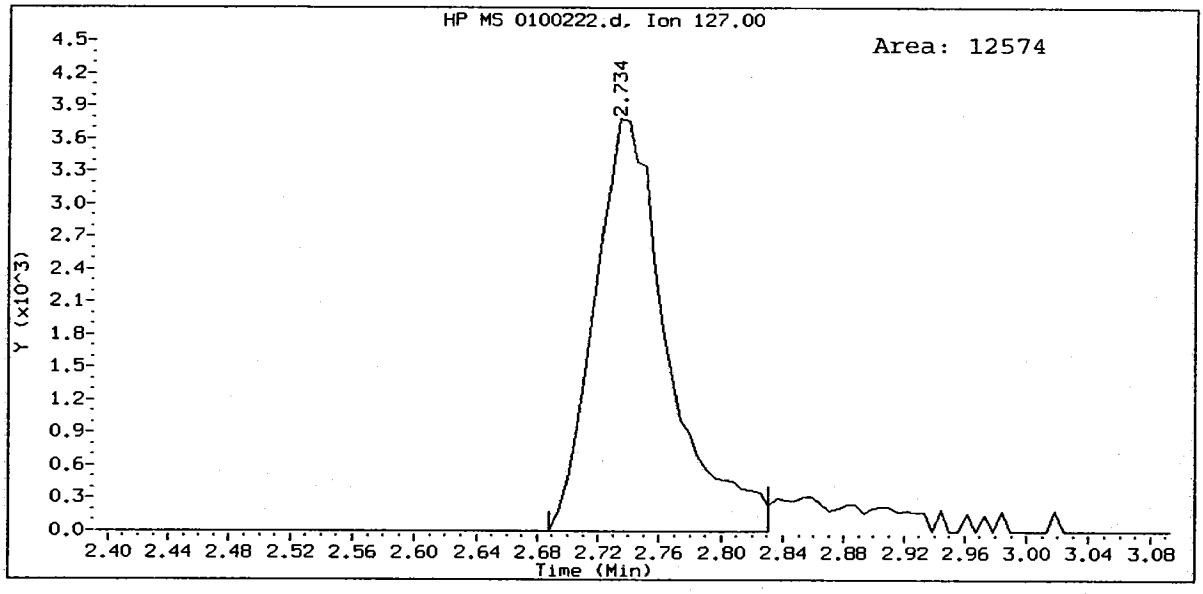
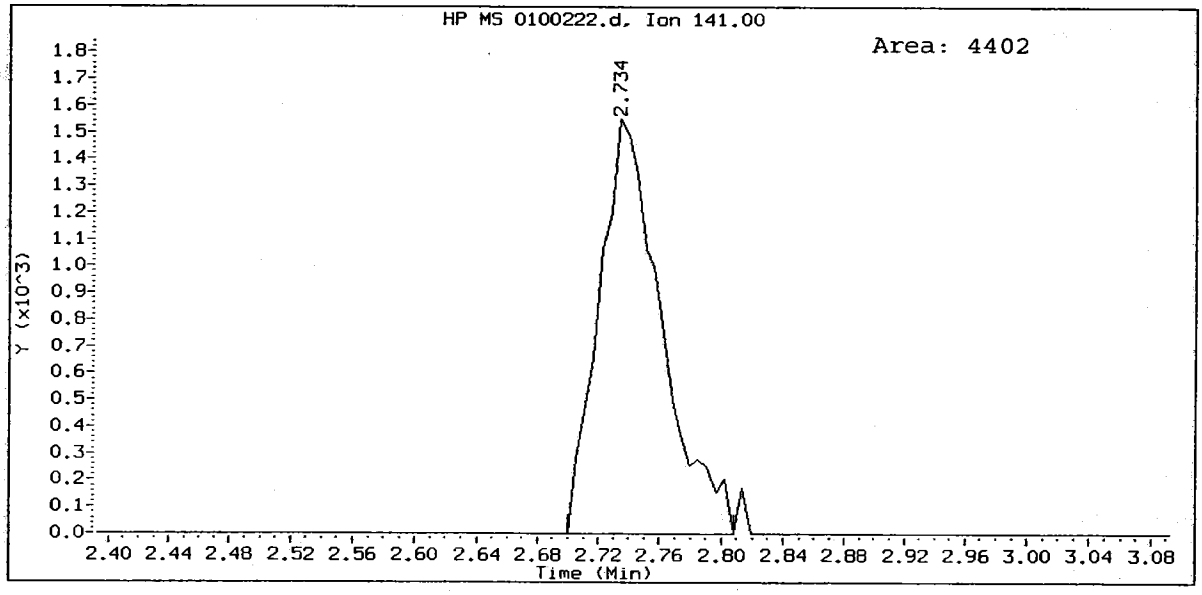
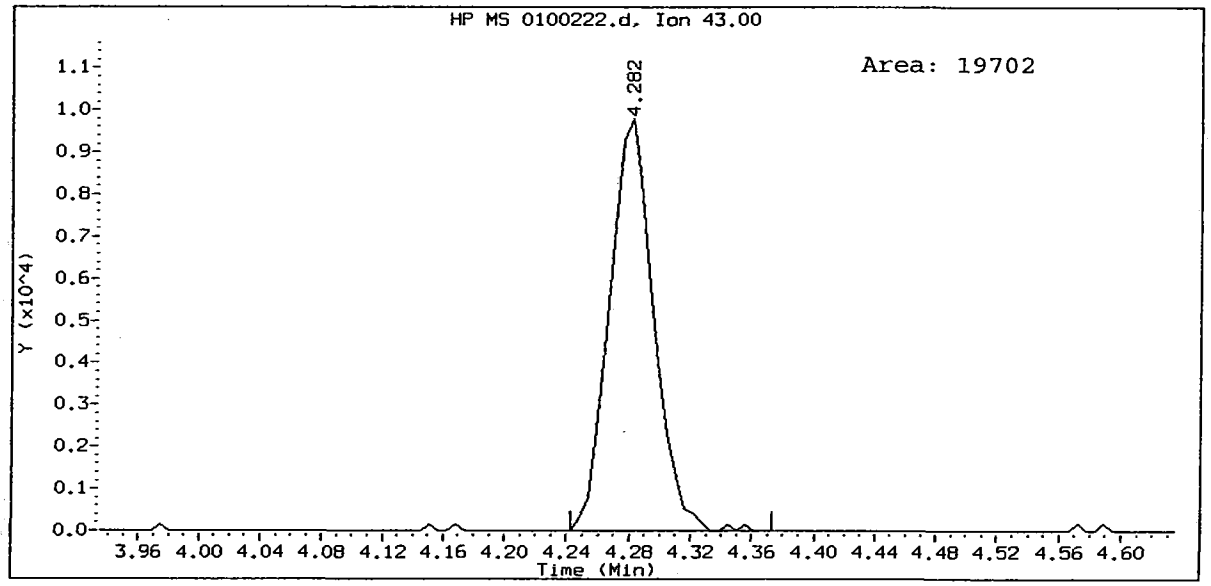
Iodomethane Amount: 1.10

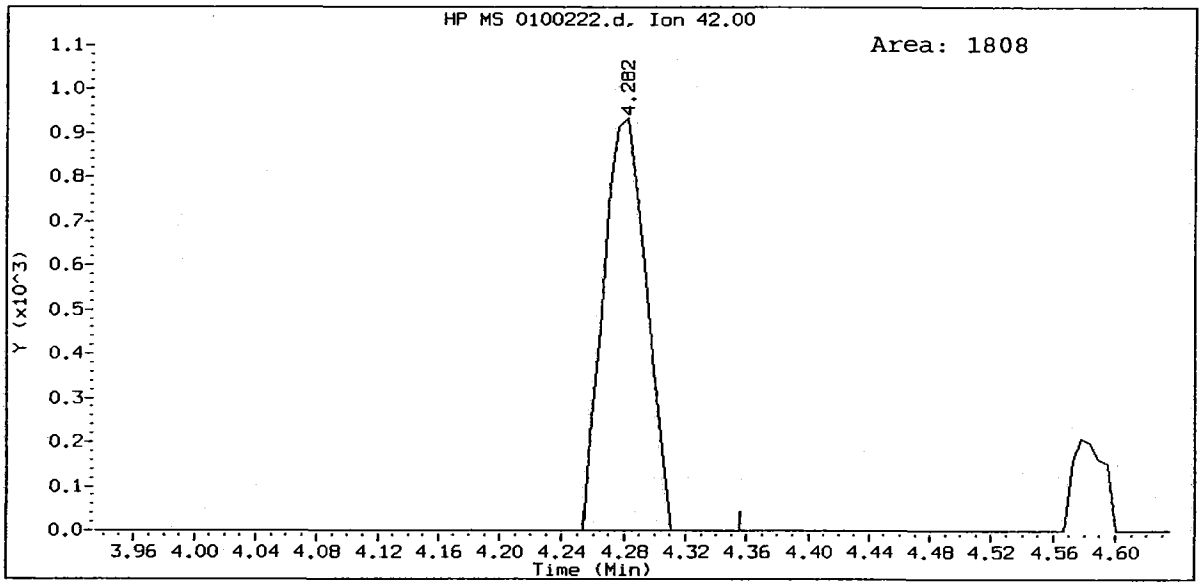


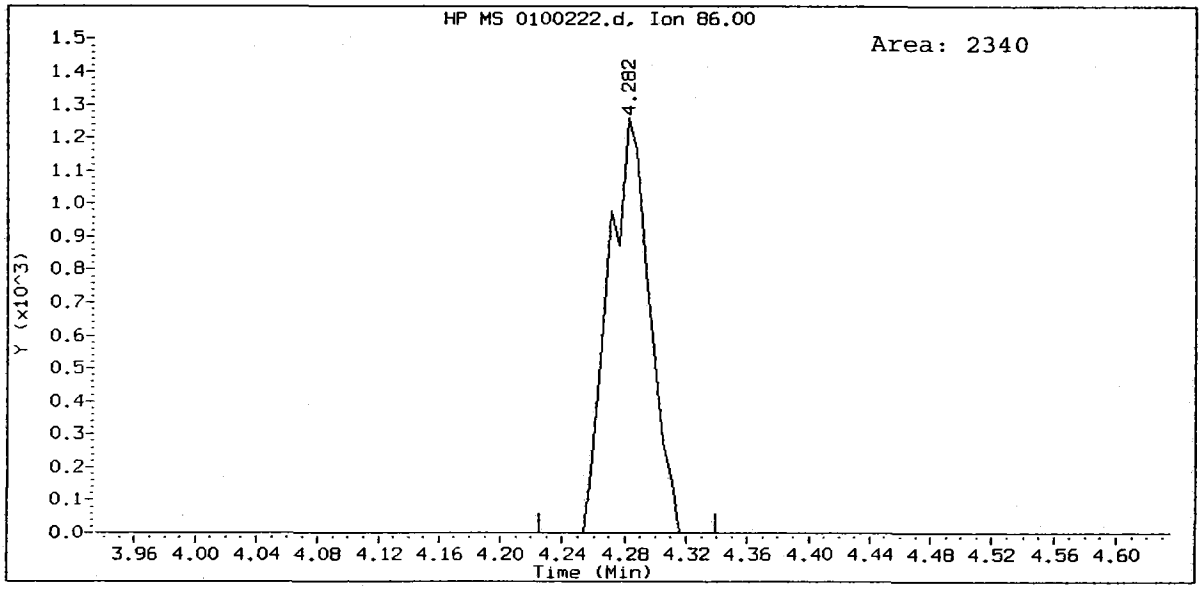




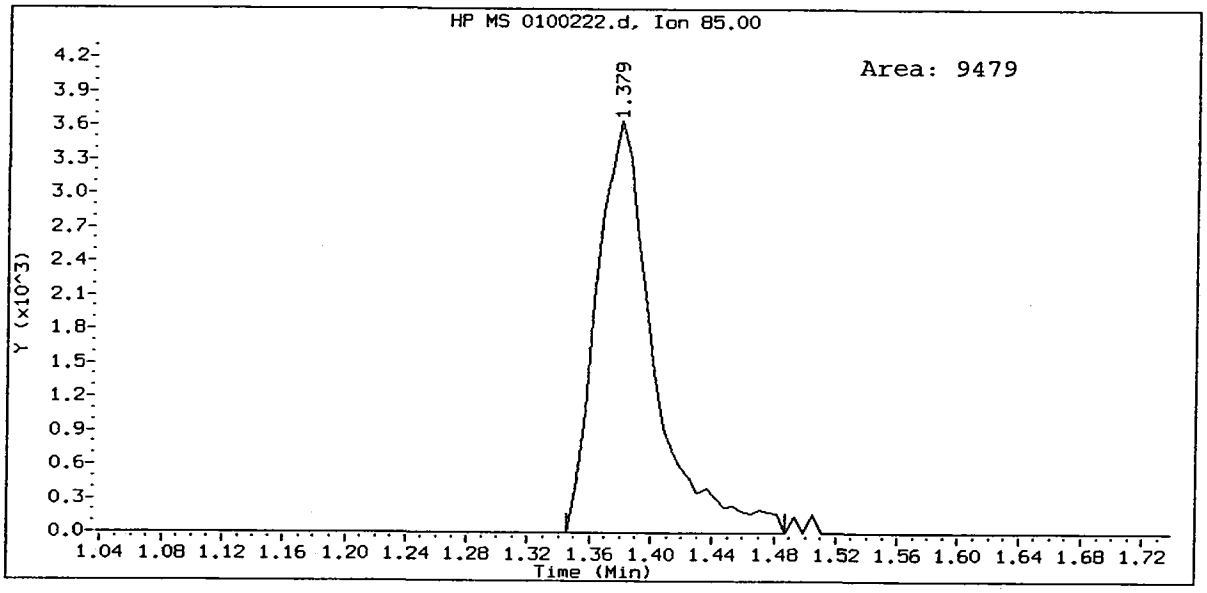
IC010, /chem1/nt10.i/22FEB10.b/0100222.d
Vinyl Acetate Amount: 0.98

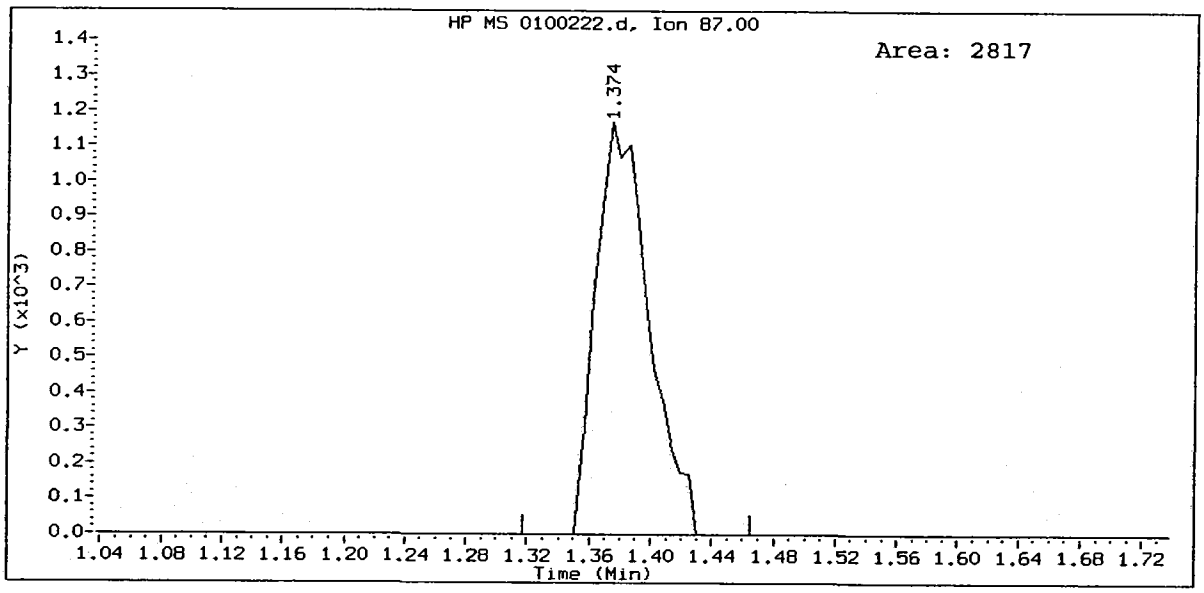




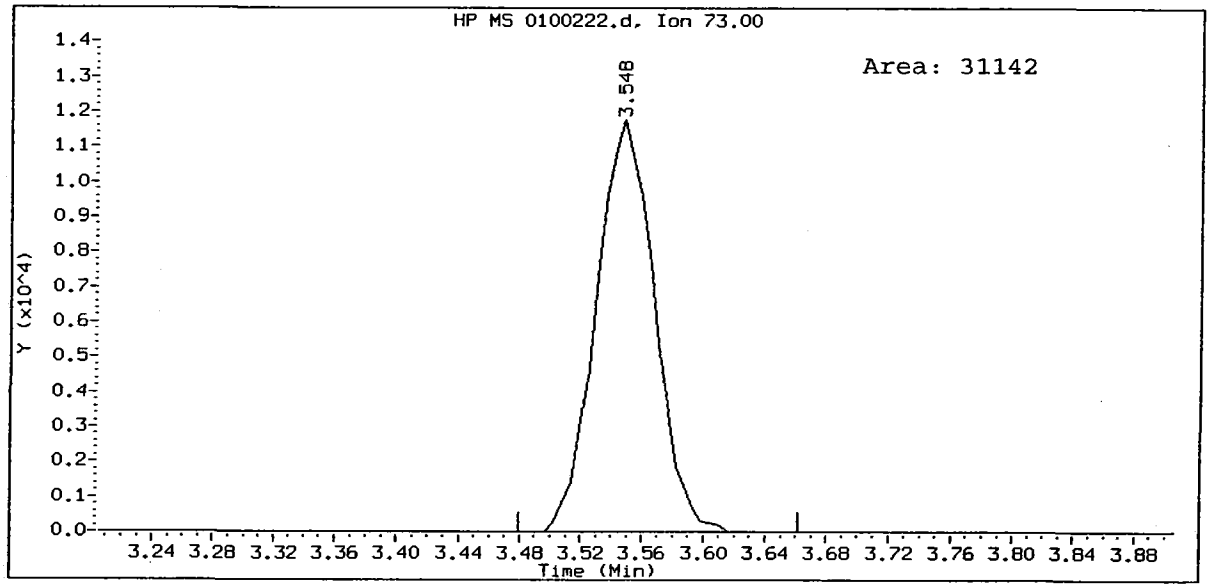


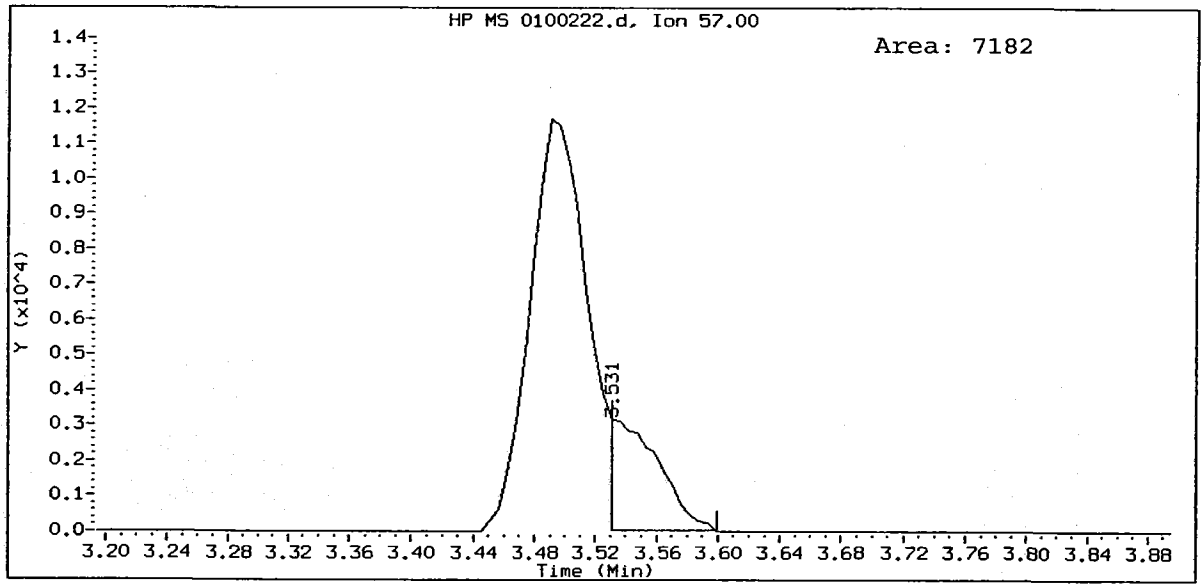
IC010, /chem1/nt10.i/22FEB10.b/0100222.d
Dichlorodifluoromethane Amount: 0.87

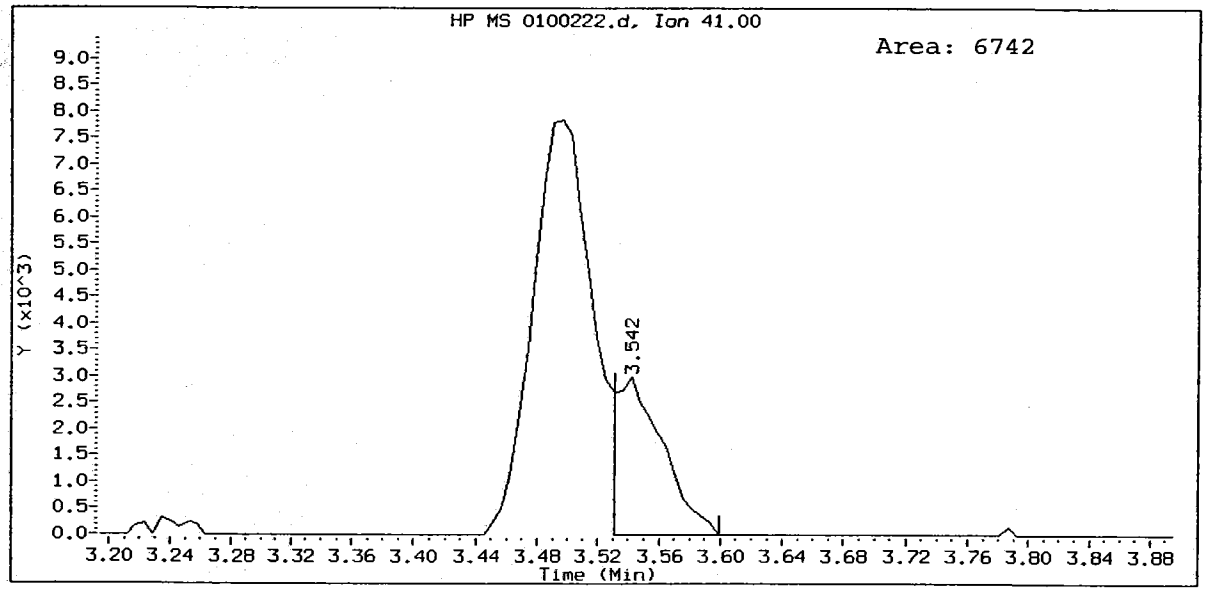




IC010, /chem1/nt10.i/22FEB10.b/0100222.d
Methyl tert butyl ether Amount: 0.98







Analytical Resources, Inc.

8260C

Data file : /chem1/nt10.i/22FEB10.b/0400222.d
Lab Smp Id: IC040 Client Smp ID: vstd5
Inj Date : 22-FEB-2010 17:41
Operator : ar Inst ID: nt10.i
Smp Info : IC040,10,10,0
Misc Info : 10-
Comment :
Method : /chem1/nt10.i/22FEB10.b/82600122L.m
Meth Date : 23-Feb-2010 15:01 aron Quant Type: ISTD
Cal Date : 22-FEB-2010 15:12 Cal File: 6000222.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	10.00000	Purge Volume (mL)
Sa	10.00000	Sample Amount (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Dichlorodifluoromethane	85	1.374	1.385	(0.261)	42397	4.00000	4.166
2 Chloromethane	50	1.533	1.545	(0.291)	56851	4.00000	3.735(M)
3 Vinyl Chloride	62	1.602	1.613	(0.304)	76326	4.00000	4.217
4 Bromomethane	94	1.880	1.892	(0.357)	92429	4.00000	5.922(M)
5 Chloroethane	64	1.989	2.000	(0.378)	64180	4.00000	4.516
6 Trichlorofluoromethane	101	2.108	2.125	(0.400)	107481	4.00000	4.225
8 Acrolein	56	2.990	2.996	(0.568)	24830	20.0000	21.259
9 112Trichloro122Trifluoroethane	101	2.654	2.666	(0.504)	73260	4.00000	4.316
10 Acetone	43	3.326	3.326	(0.632)	39111	20.0000	20.922
11 1,1-Dichloroethene	96	2.598	2.609	(0.493)	85342	4.00000	4.227
12 Bromoethane	108	2.871	2.882	(0.545)	50653	4.00000	4.111
13 Iodomethane	142	2.734	2.740	(0.519)	116988	4.00000	4.287
14 Methylene Chloride	84	3.241	3.252	(0.615)	71508	4.00000	4.252
15 Acrylonitrile	53	4.083	4.089	(0.775)	10213	4.00000	4.290
16 Methyl tert butyl ether	73	3.548	3.554	(0.674)	123044	4.00000	4.145(M)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	17 Carbon Disulfide	76	2.603	2.615	(0.494)	277621	4.00000	4.199(M)
	18 Trans-1,2-Dichloroethene	96	3.406	3.411	(0.647)	88461	4.00000	4.170
	20 Vinyl Acetate	43	4.282	4.282	(0.813)	77415	4.00000	4.124
	21 1,1-Dichloroethane	63	4.020	4.020	(0.763)	144272	4.00000	4.174
	22 2-Butanone	72	4.993	4.994	(0.948)	24795	20.0000	20.621
	23 2,2-Dichloropropane	77	4.584	4.584	(0.870)	57195	4.00000	4.159
	24 Cis-1,2-Dichloroethene	96	4.498	4.498	(0.854)	92445	4.00000	3.906
*	25 Pentafluorobenzene	168	5.267	5.272	(1.000)	405719	10.0000	
	26 Chloroform	83	4.732	4.737	(0.898)	154076	4.00000	4.184
	27 Bromochloromethane	128	4.658	4.663	(0.884)	33887	4.00000	4.215
$	28 Dibromofluoromethane	111	4.880	4.880	(0.927)	172106	10.0000	10.171
	29 1,1,1-Trichloroethane	97	4.880	4.885	(0.927)	121645	4.00000	4.247
	30 1,1-Dichloropropene	75	4.982	4.982	(0.881)	129326	4.00000	4.019
	31 Carbon Tetrachloride	117	4.823	4.823	(0.853)	97925	4.00000	4.160
$	32 d4-1,2-Dichloroethane	65	5.289	5.289	(1.004)	153857	10.0000	10.340
	33 1,2-Dichloroethane	62	5.341	5.341	(0.945)	81137	4.00000	4.152
	34 Benzene	78	5.176	5.181	(0.915)	371236	4.00000	4.084
*	35 1,4-Difluorobenzene	114	5.654	5.659	(1.000)	648113	10.0000	
	36 Trichloroethene	95	5.619	5.620	(0.994)	97807	4.00000	4.016
	37 1,2-Dichloropropane	63	6.001	6.007	(1.061)	80802	4.00000	4.106
	38 Bromodichloromethane	83	6.052	6.052	(1.070)	102747	4.00000	4.128
	39 Dibromomethane	93	5.927	5.927	(1.048)	33914	4.00000	4.312
	40 2-Chloroethyl Vinyl Ether	63	6.467	6.468	(1.144)	19052	4.00000	4.078
	41 4-Methyl-2-Pentanone	58	6.945	6.946	(1.228)	72938	20.0000	21.012
	42 Cis 1,3-dichloropropene	75	6.502	6.502	(1.150)	113017	4.00000	4.080
$	43 d8-Toluene	98	6.632	6.633	(1.173)	795247	10.0000	10.070
	44 Toluene	92	6.667	6.667	(1.179)	253280	4.00000	4.085
	45 Trans 1,3-Dichloropropene	75	6.963	6.963	(1.232)	81284	4.00000	3.991
	46 2-Hexanone	43	7.526	7.526	(0.975)	112292	20.0000	21.089
	47 1,1,2-Trichloroethane	97	7.076	7.076	(1.252)	50367	4.00000	4.172
	48 1,3-Dichloropropane	76	7.264	7.264	(0.941)	90794	4.00000	4.151
	49 Tetrachloroethene	166	6.928	6.928	(0.898)	105418	4.00000	3.974
	50 Chlorodibromomethane	129	7.196	7.196	(0.932)	60106	4.00000	4.100
	51 1,2-Dibromoethane	107	7.361	7.361	(1.302)	45728	4.00000	4.264
	52 d5-Chlorobenzene	117	7.719	7.720	(1.000)	610243	10.0000	
	53 Chlorobenzene	112	7.731	7.731	(1.001)	261870	4.00000	4.083
	54 Ethyl Benzene	91	7.748	7.748	(1.004)	510502	4.00000	4.195
	55 1,1,1,2-Tetrachloroethane	131	7.776	7.776	(1.007)	82286	4.00000	4.193
	56 m,p-xylene	106	7.850	7.850	(1.017)	380451	8.00000	8.295
	58 o-Xylene	106	8.158	8.158	(1.057)	176045	4.00000	4.235
	59 Styrene	104	8.197	8.198	(1.062)	277986	4.00000	4.250
	60 Isopropyl Benzene	105	8.380	8.380	(0.891)	480190	4.00000	3.785
	61 Bromoform	173	8.215	8.215	(0.873)	27614	4.00000	3.717
	62 1,1,2,2-Tetrachloroethane	83	8.738	8.733	(0.929)	43504	4.00000	3.993
	63 4-Bromofluorobenzene	95	8.584	8.585	(1.112)	265548	10.0000	10.726
	64 1,2,3-Trichloropropane	110	8.835	8.835	(0.939)	13327	4.00000	4.049(M)
	65 Trans-1,4-Dichloro 2-Butene	53	8.869	8.863	(0.943)	6578	4.00000	3.234(M)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
66 N-Propyl Benzene	91	8.681	8.681	(0.923)	559493	4.00000	3.862
67 Bromobenzene	156	8.664	8.664	(0.921)	90998	4.00000	3.746
68 1,3,5-Trimethyl Benzene	105	8.823	8.824	(0.938)	379176	4.00000	4.045
69 2-Chloro Toluene	91	8.795	8.795	(0.935)	351529	4.00000	3.863
70 4-Chloro Toluene	91	8.915	8.915	(0.947)	304206	4.00000	3.859
71 T-Butyl Benzene	119	9.057	9.057	(0.962)	320836	4.00000	4.050
72 1,2,4-Trimethylbenzene	105	9.108	9.108	(0.968)	365752	4.00000	4.124
73 S-Butyl Benzene	105	9.188	9.188	(0.976)	484226	4.00000	4.158
74 4-Isopropyl Toluene	119	9.296	9.296	(0.988)	377214	4.00000	4.248
75 1,3-Dichlorobenzene	146	9.353	9.353	(0.994)	165986	4.00000	4.073
* 76 d4-1,4-Dichlorobenzene	152	9.410	9.410	(1.000)	240346	10.0000	
77 1,4-Dichlorobenzene	146	9.421	9.421	(1.001)	157028	4.00000	4.039
78 N-Butyl Benzene	91	9.620	9.620	(1.022)	326120	4.00000	4.297
; 79 d4-1,2-Dichlorobenzene	152	9.734	9.734	(1.034)	189349	10.0000	10.130
80 1,2-Dichlorobenzene	146	9.740	9.740	(1.035)	124393	4.00000	4.058
81 1,2-Dibromo 3-Chloropropane	75	10.360	10.355	(1.101)	4177	4.00000	4.297
82 1,2,4-Trichlorobenzene	180	10.884	10.878	(1.157)	56725	4.00000	3.796
83 Hexachloro 1,3-Butadiene	225	10.861	10.855	(1.154)	37846	4.00000	4.256
84 Naphthalene	128	11.140	11.140	(1.184)	83595	4.00000	4.117
85 1,2,3-Trichlorobenzene	180	11.288	11.282	(1.200)	42472	4.00000	4.193

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: 0400222.d
Lab Smp Id: IC040
Analysis Type: VOA
Quant Type: ISTD
Operator: ar
Method File: /chem1/nt10.i/22FEB10.b/82600122L.m
Misc Info: 10-

Calibration Date: 22-FEB-2010
Calibration Time: 17:11
Client Smp ID: vstd5
Level: LOW
Sample Type: WATER

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
25 Pentafluorobenzen	456228	228114	912456	405719	-11.07
35 1,4-Difluorobenze	740651	370326	1481302	648113	-12.49
52 d5-Chlorobenzene	686240	343120	1372480	610243	-11.07
76 d4-1,4-Dichlorobe	249963	124982	499926	240346	-3.85

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
25 Pentafluorobenzen	5.27	4.77	5.77	5.27	-0.11
35 1,4-Difluorobenze	5.66	5.16	6.16	5.65	-0.10
52 d5-Chlorobenzene	7.72	7.22	8.22	7.72	0.00
76 d4-1,4-Dichlorobe	9.41	8.91	9.91	9.41	0.00

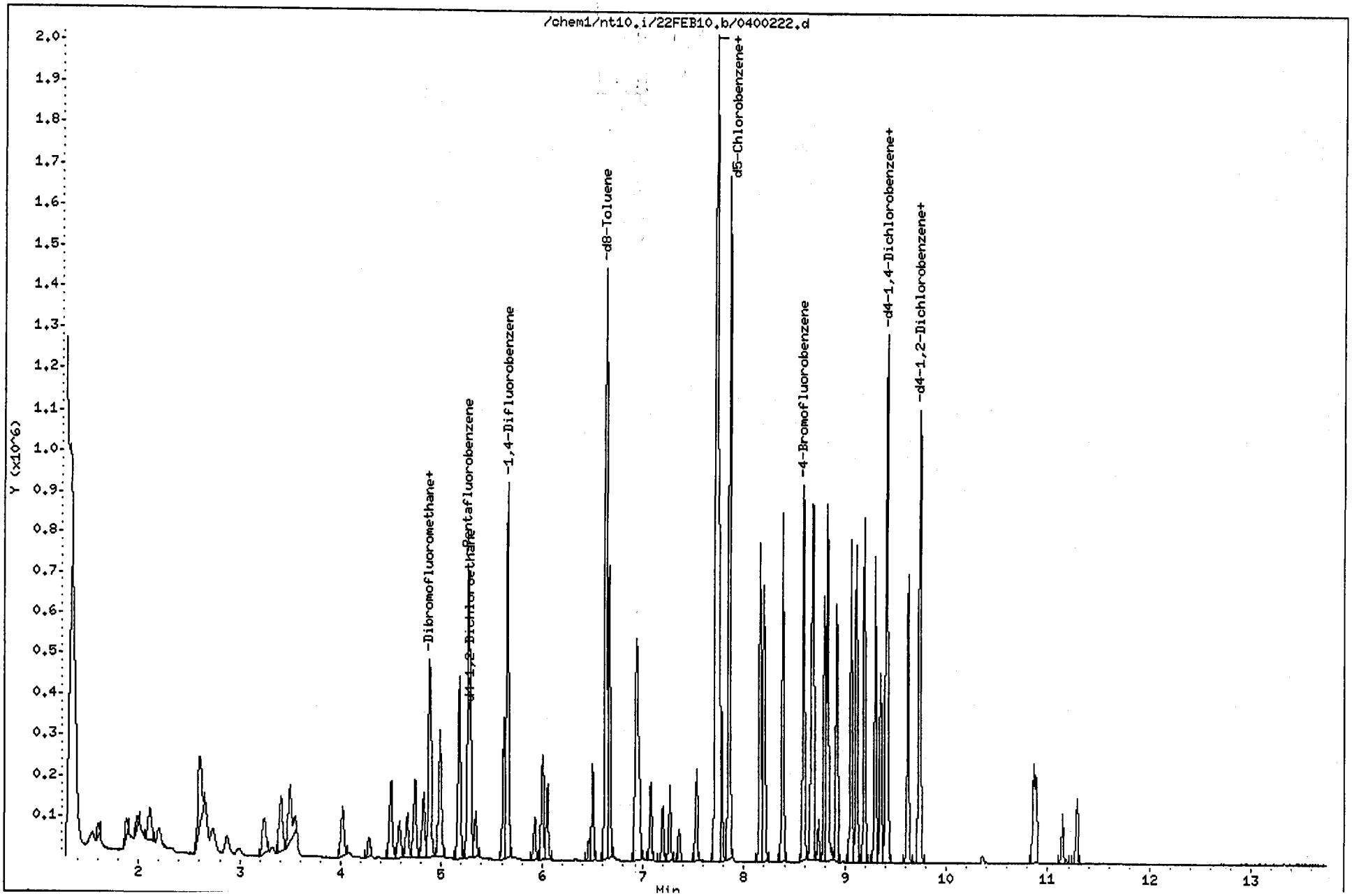
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem1/nt10.i/22FEB10.b/0400222.d
Date : 22-FEB-2010 17:41
Client ID: vstd5
Sample Info: IC040,10,10,0

Column phase: RTX502.2

Instrument: nt10.i

Operator: ar
Column diameter: 0.18



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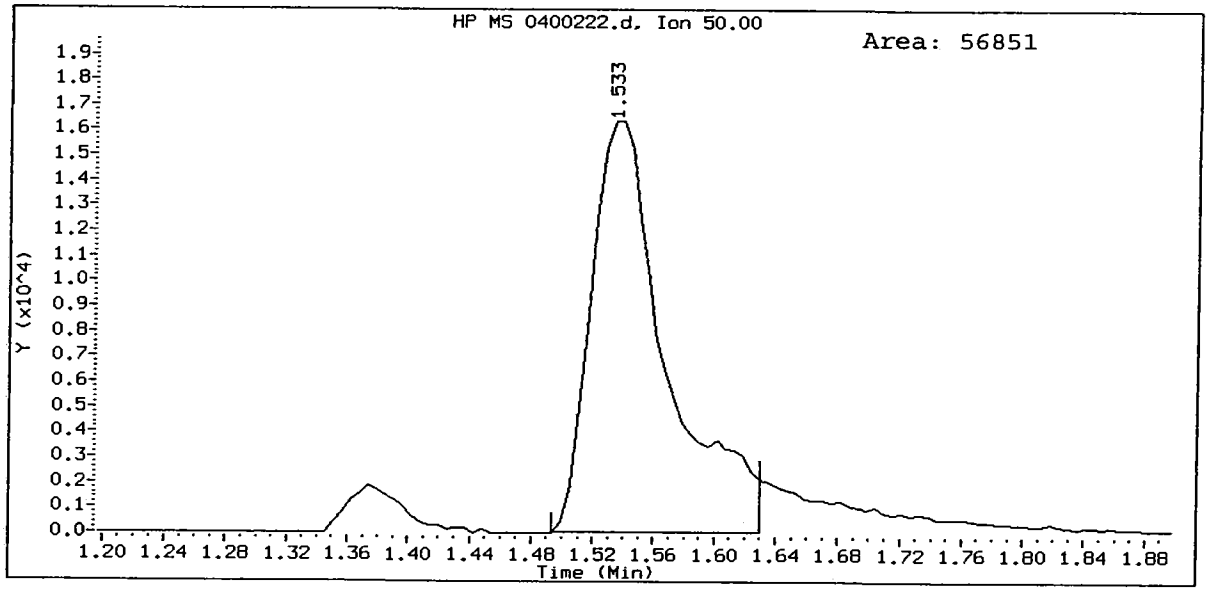
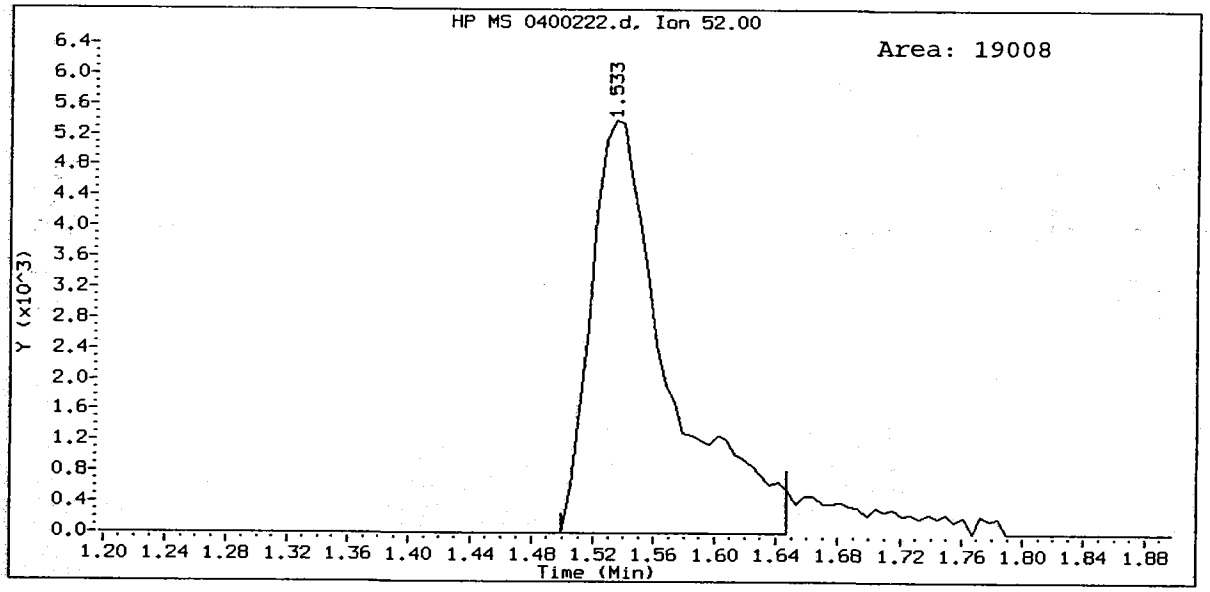
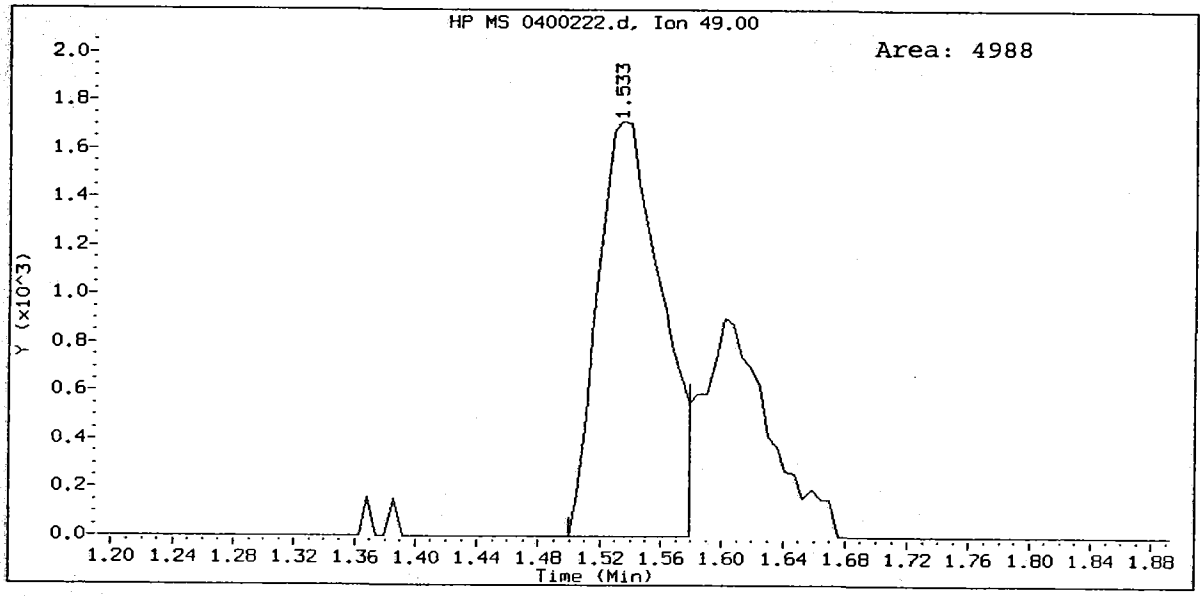
Chloromethane Amount: 3.73







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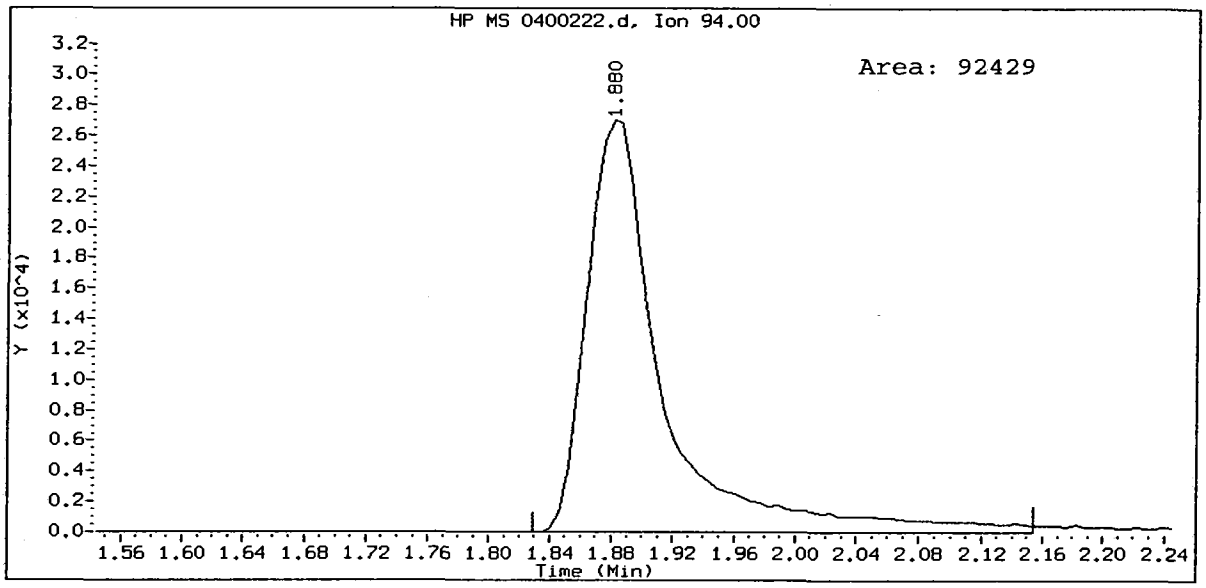
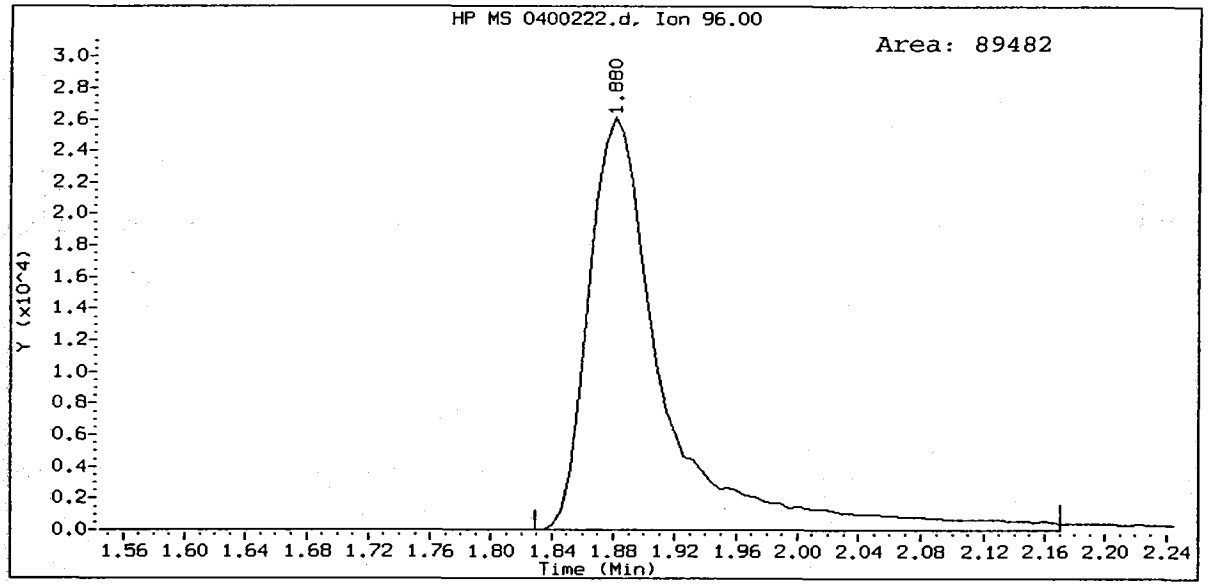
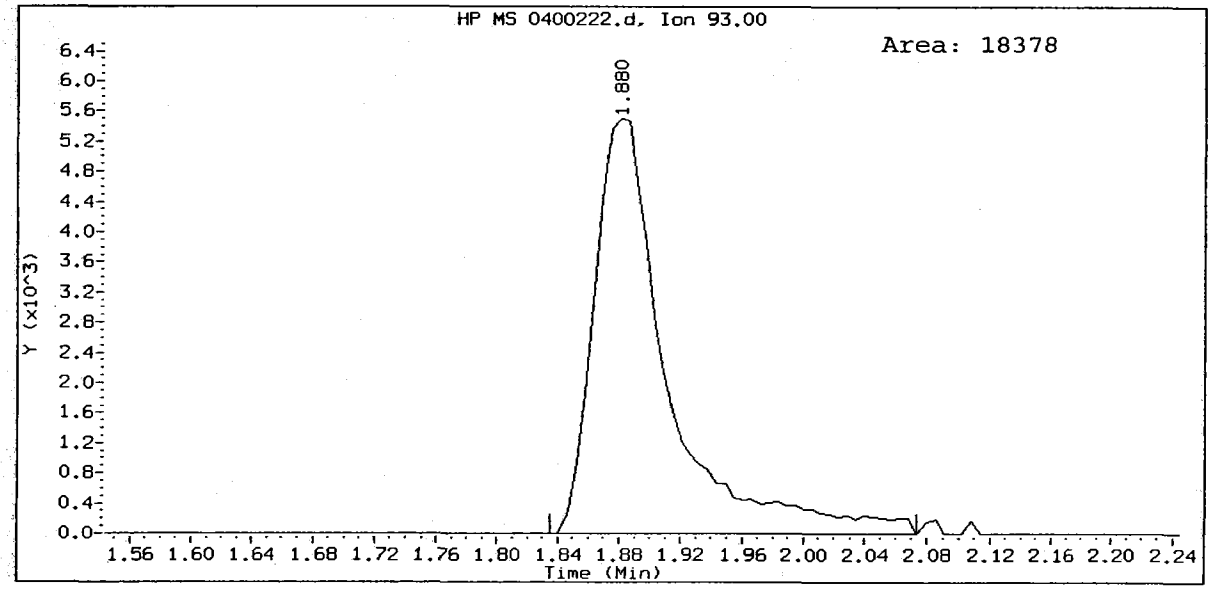
Bromomethane Amount: 5.92







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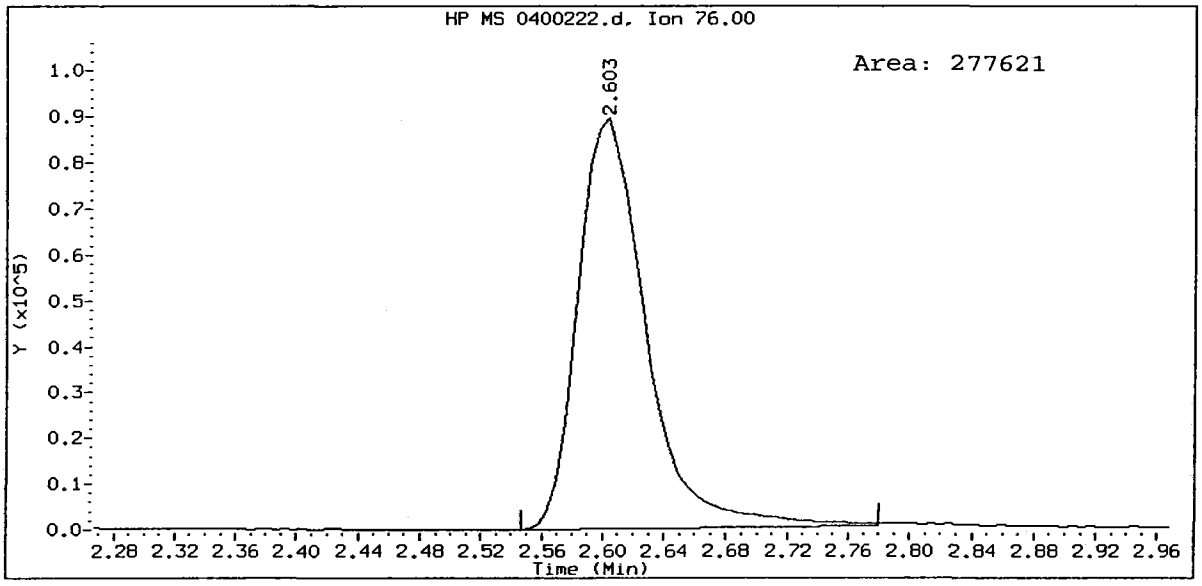
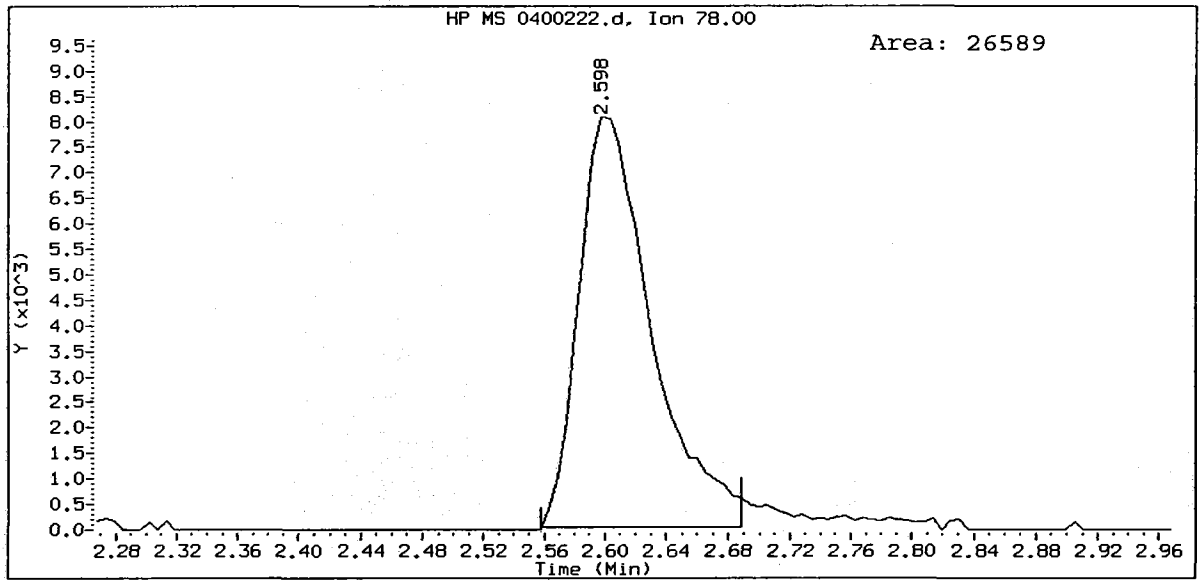
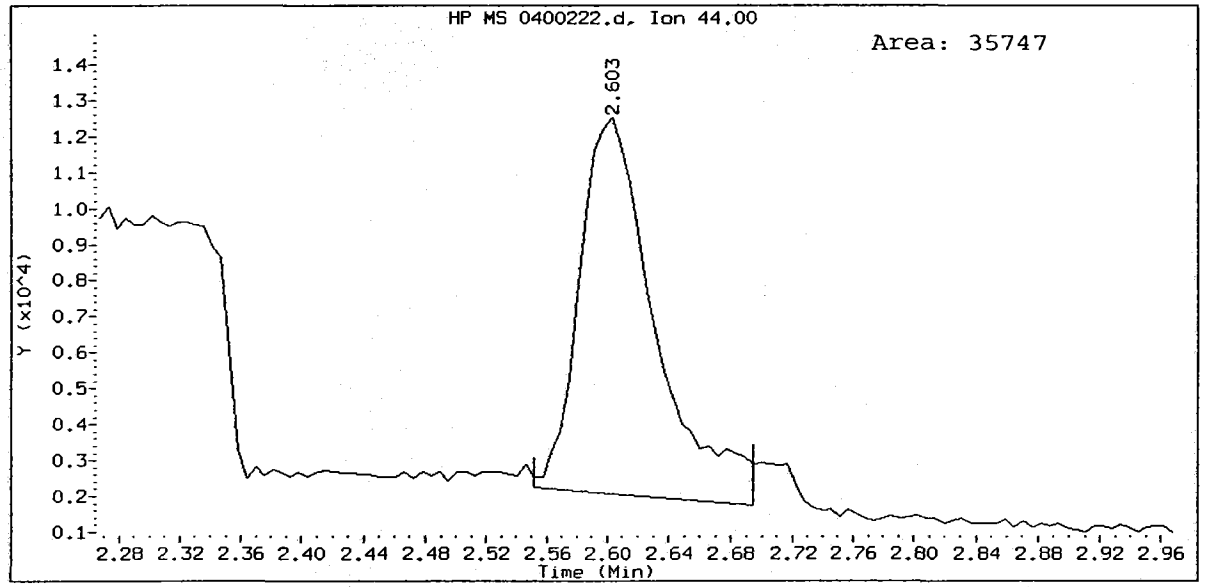
Carbon Disulfide Amount: 4.20







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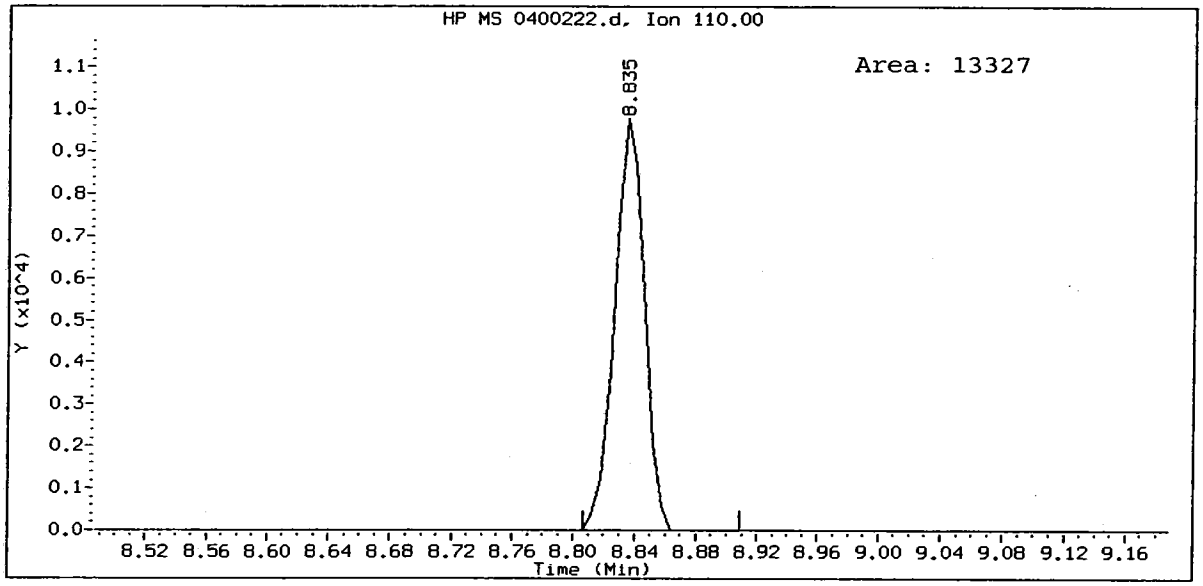
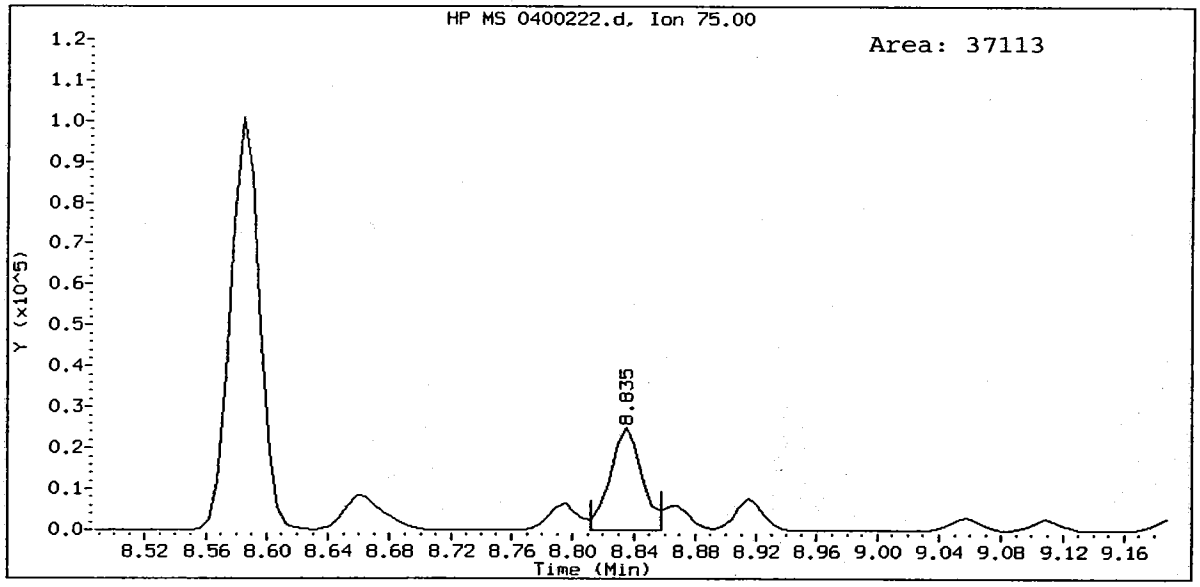
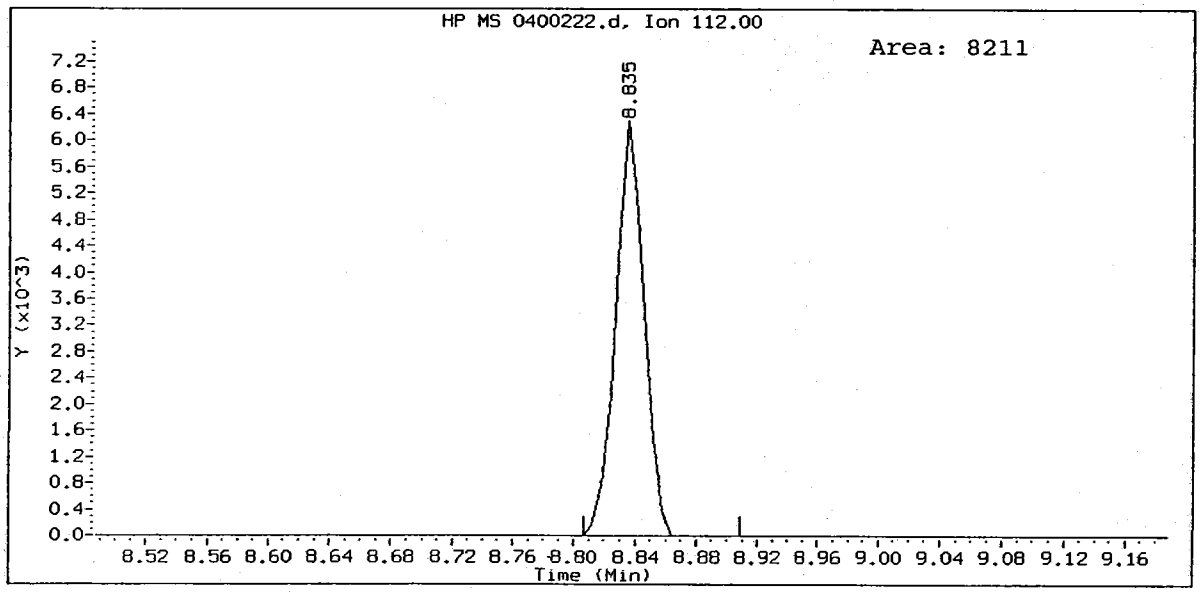
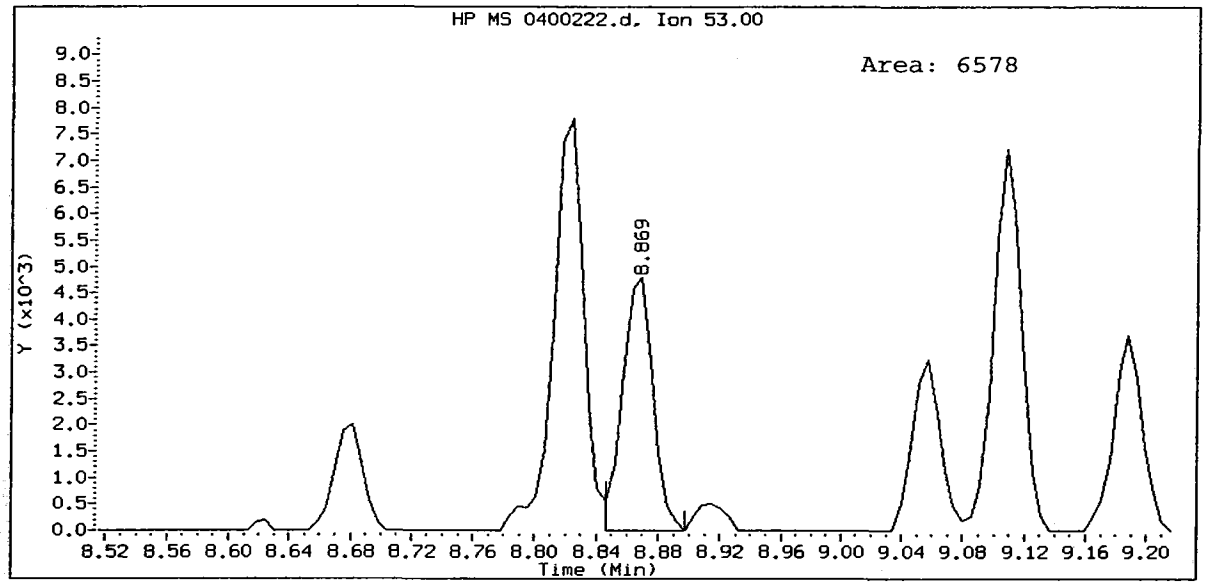
1,2,3-Trichloropropane Amount: 4.05

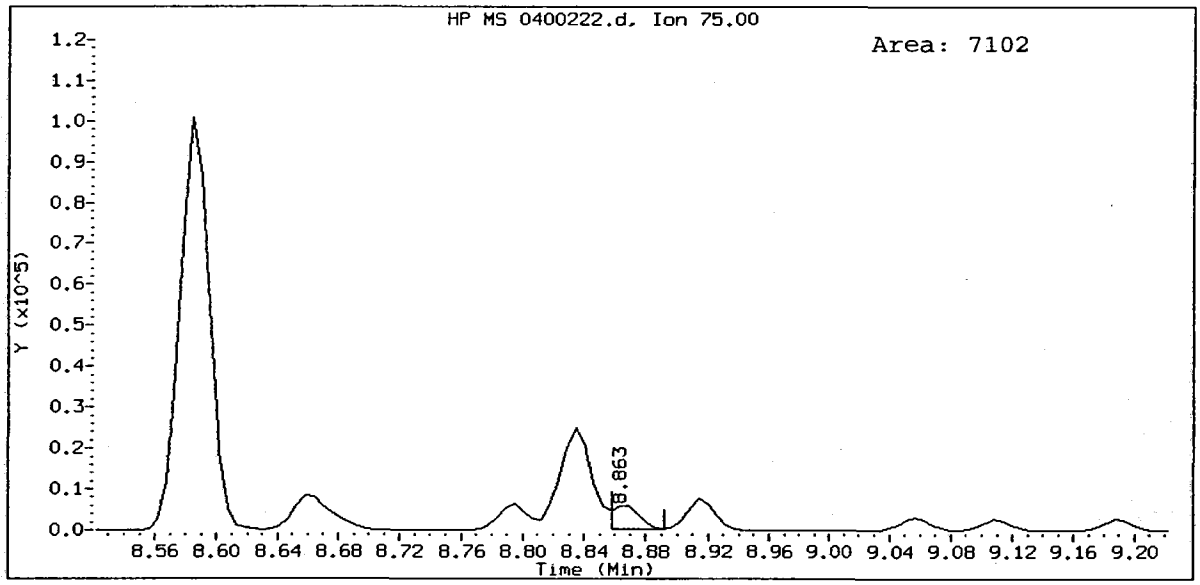


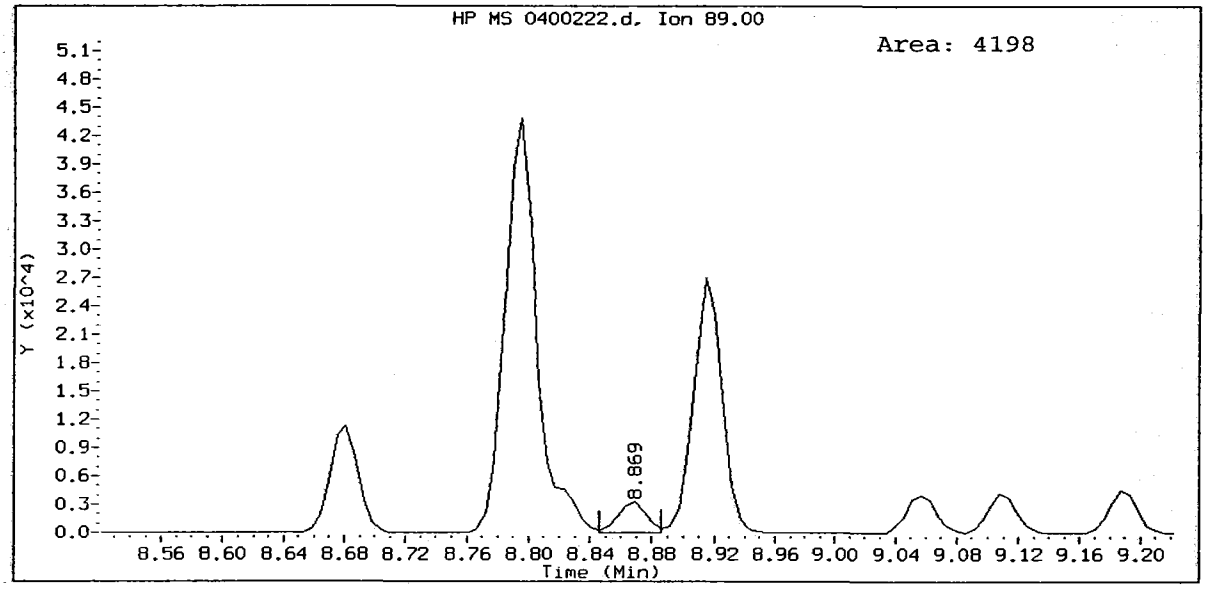




IC040, /chem1/nt10.i/22FEB10.b/0400222.d
Trans-1,4-Dichloro 2-Butene Amount: 3.23







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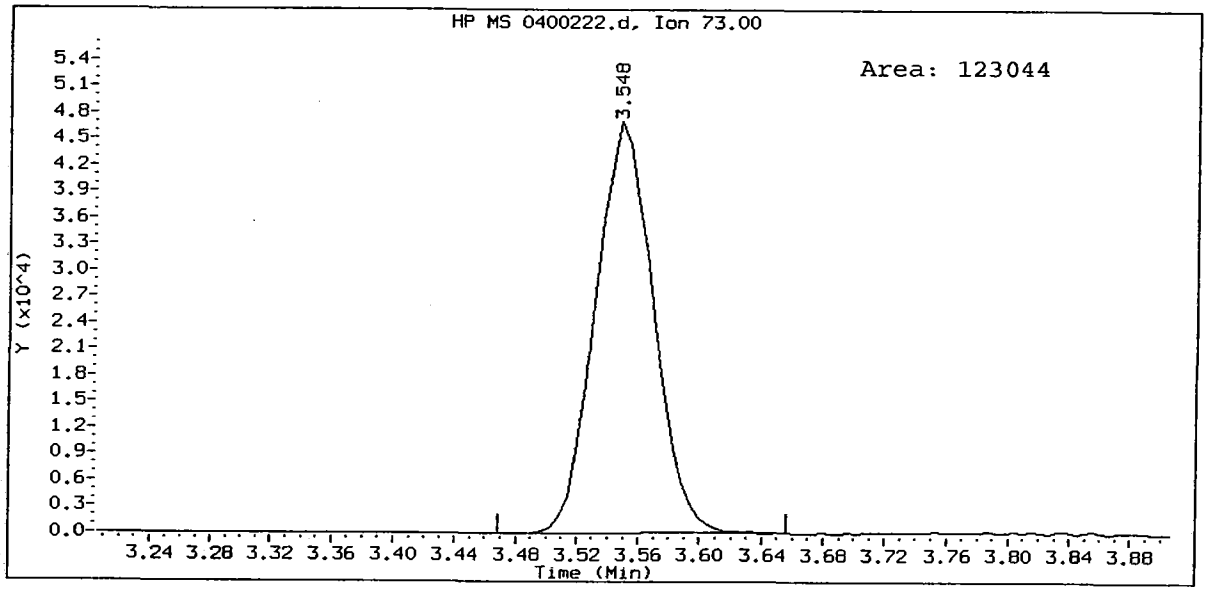
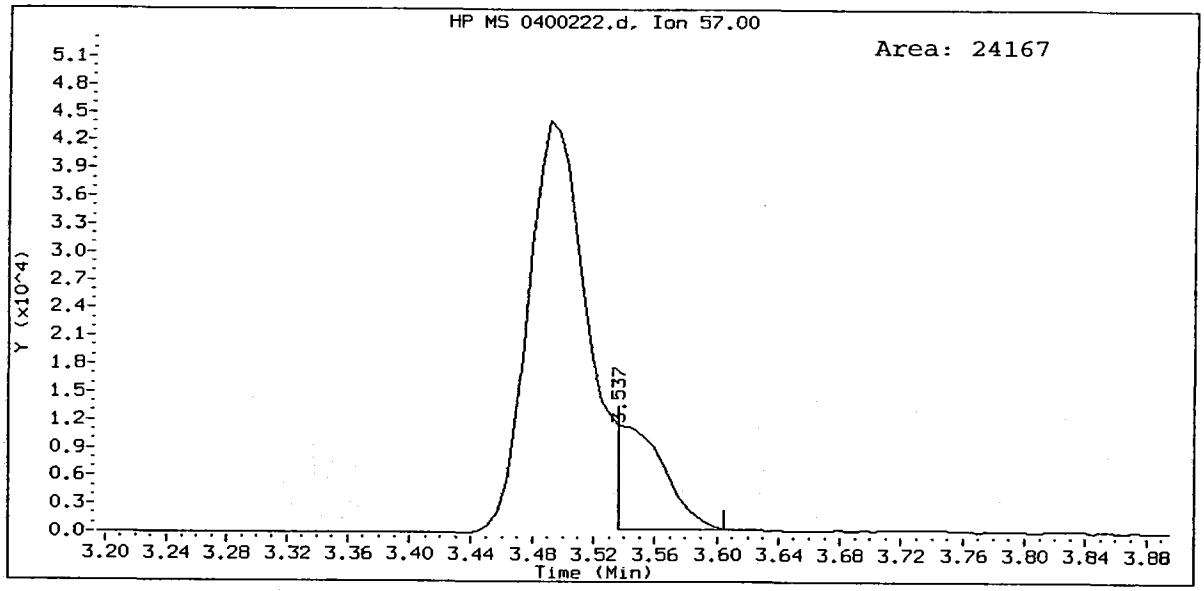
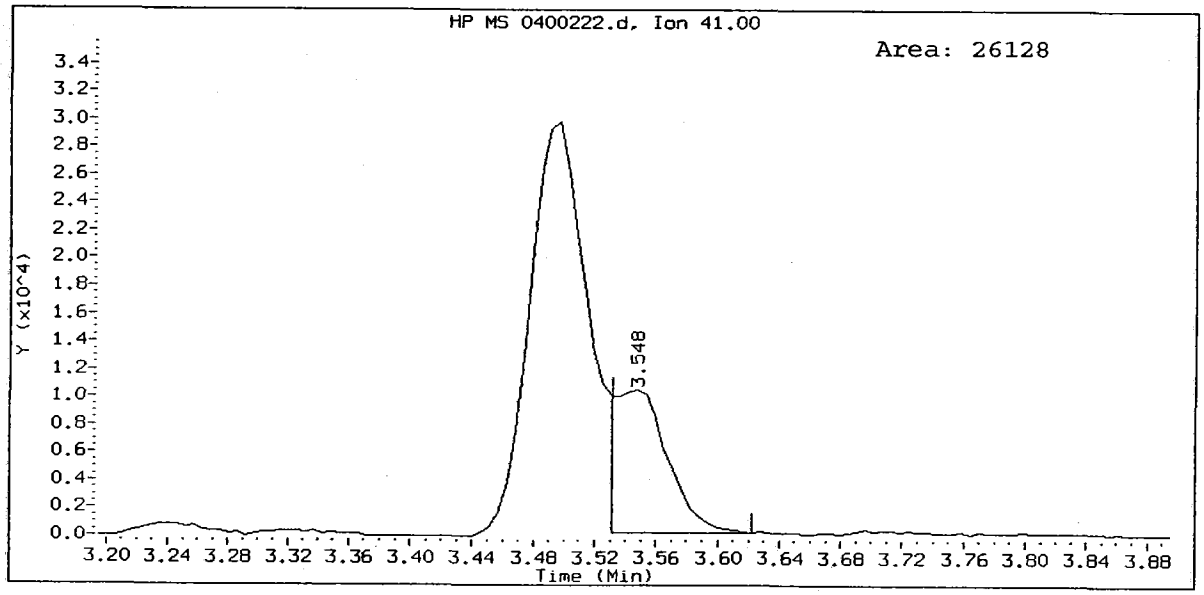
Methyl tert butyl ether Amount: 4.14







Analytical Resources, Inc.

8260C

Data file : /chem1/nt10.i/22FEB10.b/1000222.d
Lab Smp Id: IC100 Client Smp ID: vstd4
Inj Date : 22-FEB-2010 17:11
Operator : ar Inst ID: nt10.i
Smp Info : IC100,10,10,0
Misc Info : 10-
Comment :
Method : /chem1/nt10.i/22FEB10.b/82600122L.m
Meth Date : 23-Feb-2010 15:01 aron Quant Type: ISTD
Cal Date : 22-FEB-2010 15:12 Cal File: 6000222.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	10.00000	Purge Volume (mL)
Sa	10.00000	Sample Amount (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Dichlorodifluoromethane	85	1.385	1.385	(0.263)	125742	10.0000	10.989
2 Chloromethane	50	1.545	1.545	(0.293)	156232	10.0000	9.128
3 Vinyl Chloride	62	1.613	1.613	(0.306)	196533	10.0000	9.657
4 Bromomethane	94	1.892	1.892	(0.359)	175949	10.0000	10.024(M)
5 Chloroethane	64	2.000	2.000	(0.379)	148392	10.0000	9.286
6 Trichlorofluoromethane	101	2.125	2.125	(0.403)	280615	10.0000	9.810
8 Acrolein	56	2.996	2.996	(0.568)	60003	50.0000	45.686
9 112Trichloro122Trifluoroethane	101	2.666	2.666	(0.506)	185303	10.0000	9.708
10 Acetone	43	3.326	3.326	(0.631)	93829	50.0000	44.635
11 1,1-Dichloroethene	96	2.609	2.609	(0.495)	218104	10.0000	9.606
12 Bromoethane	108	2.882	2.882	(0.547)	133284	10.0000	9.619
13 Iodomethane	142	2.740	2.740	(0.520)	268459	10.0000	8.749
14 Methylene Chloride	84	3.252	3.252	(0.617)	184131	10.0000	9.736
15 Acrylonitrile	53	4.089	4.089	(0.775)	26112	10.0000	9.753
16 Methyl tert butyl ether	73	3.554	3.554	(0.674)	331725	10.0000	9.937(M)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
	17 Carbon Disulfide	76	2.615	2.615	(0.496)	727050	10.0000	9.780
	18 Trans-1,2-Dichloroethene	96	3.411	3.411	(0.647)	232568	10.0000	9.749
	20 Vinyl Acetate	43	4.282	4.282	(0.812)	213510	10.0000	10.114
	21 1,1-Dichloroethane	63	4.020	4.020	(0.763)	390700	10.0000	10.052
	22 2-Butanone	72	4.994	4.994	(0.947)	67898	50.0000	50.217
	23 2,2-Dichloropropane	77	4.584	4.584	(0.869)	151716	10.0000	9.810
	24 Cis-1,2-Dichloroethene	96	4.498	4.498	(0.853)	252669	10.0000	9.493
*	25 Pentafluorobenzene	168	5.272	5.272	(1.000)	456228	10.0000	
	26 Chloroform	83	4.737	4.737	(0.899)	415651	10.0000	10.038
	27 Bromochloromethane	128	4.663	4.663	(0.884)	89793	10.0000	9.932
$	28 Dibromofluoromethane	111	4.880	4.880	(0.926)	191401	10.0000	10.059
	29 1,1,1-Trichloroethane	97	4.885	4.885	(0.927)	320059	10.0000	9.937
	30 1,1-Dichloropropene	75	4.982	4.982	(0.880)	366440	10.0000	9.965
	31 Carbon Tetrachloride	117	4.823	4.823	(0.852)	263757	10.0000	9.805(H)
$	32 d4-1,2-Dichloroethane	65	5.289	5.289	(1.003)	173838	10.0000	10.389
	33 1,2-Dichloroethane	62	5.341	5.341	(0.944)	222009	10.0000	9.942
	34 Benzene	78	5.181	5.181	(0.916)	1038755	10.0000	9.999
*	35 1,4-Difluorobenzene	114	5.659	5.659	(1.000)	740651	10.0000	
	36 Trichloroethene	95	5.620	5.620	(0.993)	300165	10.0000	10.784
	37 1,2-Dichloropropane	63	6.007	6.007	(1.061)	225357	10.0000	10.021
	38 Bromodichloromethane	83	6.052	6.052	(1.069)	288645	10.0000	10.149
	39 Dibromomethane	93	5.927	5.927	(1.047)	91451	10.0000	10.176
	40 2-Chloroethyl Vinyl Ether	63	6.468	6.468	(1.143)	54531	10.0000	10.215
	41 4-Methyl-2-Pentanone	58	6.946	6.946	(1.227)	191576	50.0000	48.294
	42 Cis 1,3-dichloropropene	75	6.502	6.502	(1.149)	326765	10.0000	10.323
$	43 d8-Toluene	98	6.633	6.633	(1.172)	893111	10.0000	9.896
	44 Toluene	92	6.667	6.667	(1.178)	702188	10.0000	9.910
	45 Trans 1,3-Dichloropropene	75	6.963	6.963	(1.230)	243835	10.0000	10.477
	46 2-Hexanone	43	7.526	7.526	(0.975)	296650	50.0000	49.542
	47 1,1,2-Trichloroethane	97	7.076	7.076	(1.250)	139353	10.0000	10.100
	48 1,3-Dichloropropane	76	7.264	7.264	(0.941)	250657	10.0000	10.192
	49 Tetrachloroethene	166	6.928	6.928	(0.898)	295467	10.0000	9.904
	50 Chlorodibromomethane	129	7.196	7.196	(0.932)	168144	10.0000	10.198
	51 1,2-Dibromoethane	107	7.361	7.361	(1.301)	126367	10.0000	10.312
	52 d5-Chlorobenzene	117	7.720	7.720	(1.000)	686240	10.0000	
	53 Chlorobenzene	112	7.731	7.731	(1.001)	719580	10.0000	9.977
	54 Ethyl Benzene	91	7.748	7.748	(1.004)	1390970	10.0000	10.164
	55 1,1,1,2-Tetrachloroethane	131	7.776	7.776	(1.007)	220751	10.0000	10.003
	56 m,p-xylene	106	7.850	7.850	(1.017)	1032920	20.0000	20.027
	58 o-Xylene	106	8.158	8.158	(1.057)	469744	10.0000	10.049
	59 Styrene	104	8.198	8.198	(1.062)	753200	10.0000	10.240
	60 Isopropyl Benzene	105	8.380	8.380	(0.891)	1250167	10.0000	9.475
	61 Bromoform	173	8.215	8.215	(0.873)	74729	10.0000	9.671
	62 1,1,2,2-Tetrachloroethane	83	8.733	8.733	(0.928)	108116	10.0000	9.542(H)
	63 4-Bromofluorobenzene	95	8.585	8.585	(1.112)	287732	10.0000	10.335
	64 1,2,3-Trichloropropane	110	8.835	8.835	(0.939)	33526	10.0000	9.793
	65 Trans-1,4-Dichloro 2-Butene	53	8.863	8.863	(0.942)	19128	10.0000	8.877

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
66 N-Propyl Benzene	91	8.681	8.681	(0.923)	1449520	10.0000	9.621(H)
67 Bromobenzene	156	8.664	8.664	(0.921)	243258	10.0000	9.628
68 1,3,5-Trimethyl Benzene	105	8.824	8.824	(0.938)	949287	10.0000	9.738
69 2-Chloro Toluene	91	8.795	8.795	(0.935)	906963	10.0000	9.584(H)
70 4-Chloro Toluene	91	8.915	8.915	(0.947)	796063	10.0000	9.711
71 T-Butyl Benzene	119	9.057	9.057	(0.962)	786346	10.0000	9.545
72 1,2,4-Trimethylbenzene	105	9.108	9.108	(0.968)	913040	10.0000	9.898(H)
73 S-Butyl Benzene	105	9.188	9.188	(0.976)	1175090	10.0000	9.702(H)
74 4-Isopropyl Toluene	119	9.296	9.296	(0.988)	907549	10.0000	9.827
75 1,3-Dichlorobenzene	146	9.353	9.353	(0.994)	417695	10.0000	9.856
* 76 d4-1,4-Dichlorobenzene	152	9.410	9.410	(1.000)	249963	10.0000	
77 1,4-Dichlorobenzene	146	9.421	9.421	(1.001)	394618	10.0000	9.759
78 N-Butyl Benzene	91	9.620	9.620	(1.022)	773806	10.0000	9.804
; 79 d4-1,2-Dichlorobenzene	152	9.734	9.734	(1.034)	190199	10.0000	9.784
80 1,2-Dichlorobenzene	146	9.740	9.740	(1.035)	303682	10.0000	9.526
81 1,2-Dibromo 3-Chloropropane	75	10.355	10.355	(1.100)	10239	10.0000	10.129
82 1,2,4-Trichlorobenzene	180	10.878	10.878	(1.156)	145079	10.0000	9.336
83 Hexachloro 1,3-Butadiene	225	10.855	10.855	(1.154)	86817	10.0000	9.387
84 Naphthalene	128	11.140	11.140	(1.184)	200943	10.0000	9.515
85 1,2,3-Trichlorobenzene	180	11.282	11.282	(1.199)	103726	10.0000	9.846

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: 1000222.d
Lab Smp Id: IC100
Analysis Type: VOA
Quant Type: ISTD
Operator: ar
Method File: /chem1/nt10.i/22FEB10.b/82600122L.m
Misc Info: 10-

Calibration Date: 22-FEB-2010
Calibration Time: 17:11
Client Smp ID: vstd4
Level: LOW
Sample Type: WATER

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
25 Pentafluorobenzen	456228	228114	912456	456228	0.00
35 1,4-Difluorobenze	740651	370326	1481302	740651	0.00
52 d5-Chlorobenzene	686240	343120	1372480	686240	0.00
76 d4-1,4-Dichlorobe	249963	124982	499926	249963	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
25 Pentafluorobenzen	5.27	4.77	5.77	5.27	0.00
35 1,4-Difluorobenze	5.66	5.16	6.16	5.66	0.00
52 d5-Chlorobenzene	7.72	7.22	8.22	7.72	0.00
76 d4-1,4-Dichlorobe	9.41	8.91	9.91	9.41	0.00

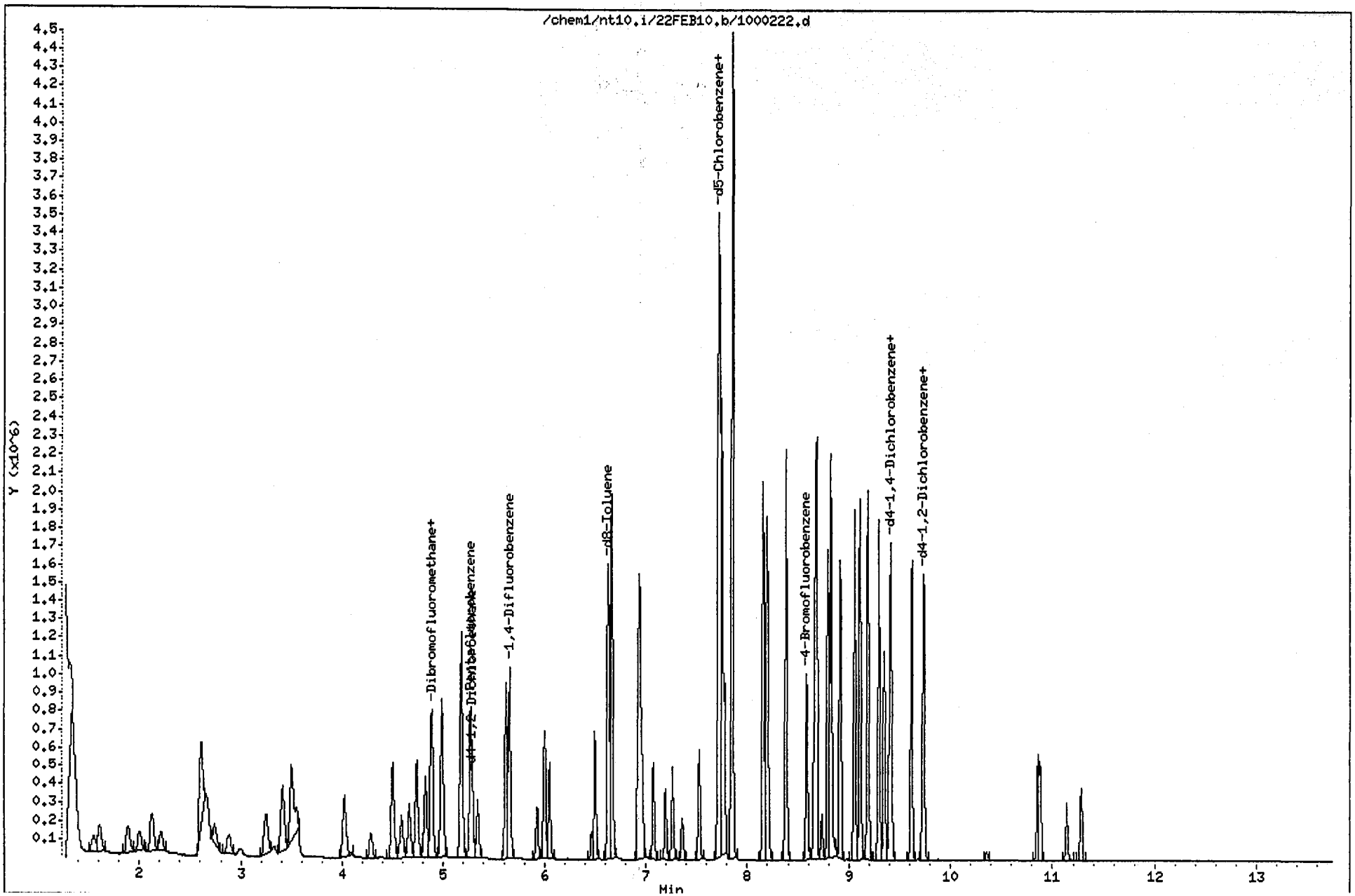
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem1/nt10.i/22FEB10.b/1000222.d
Date : 22-FEB-2010 17:11
Client ID: vstd4
Sample Info: IC100,10,10,0

Column phase: RTX502.2

Instrument: nt10.i

Operator: ar
Column diameter: 0.18



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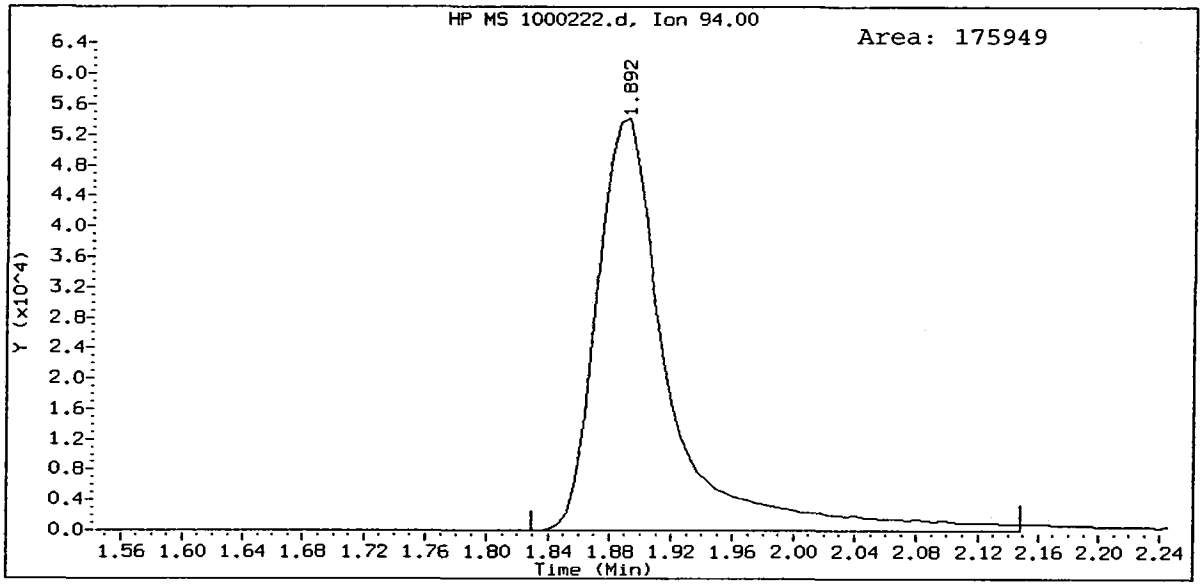
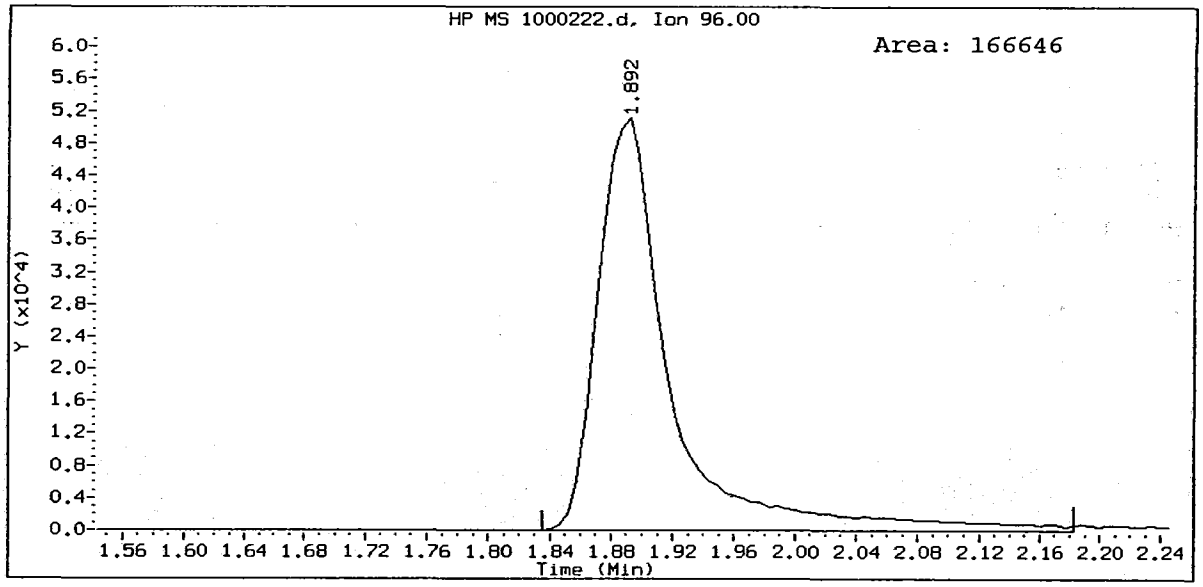
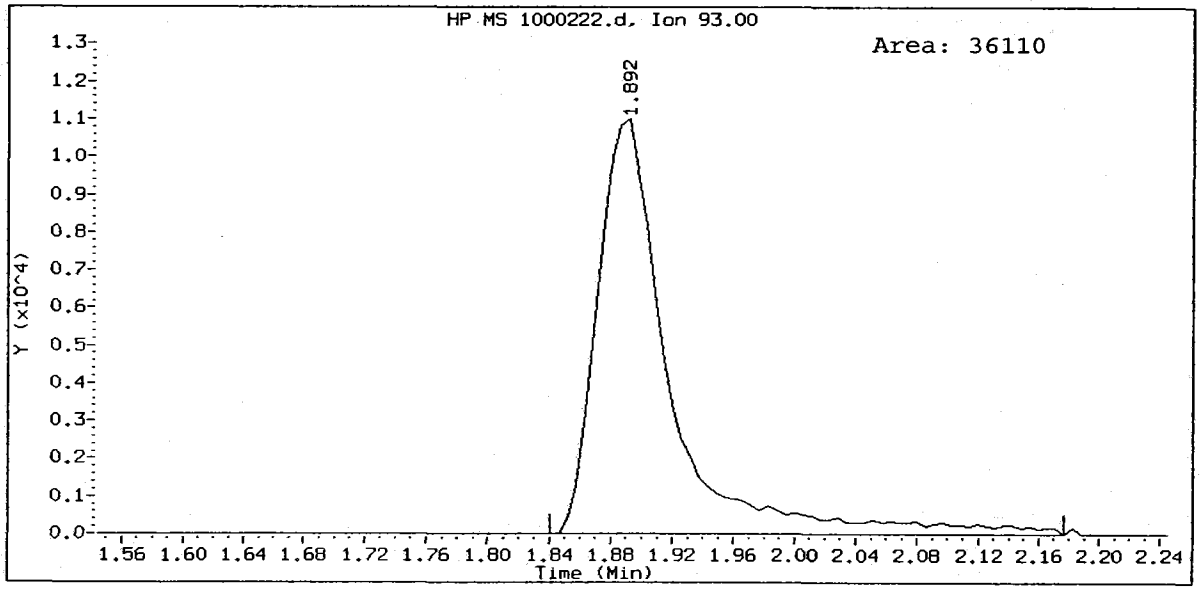
Bromomethane Amount: 10.02







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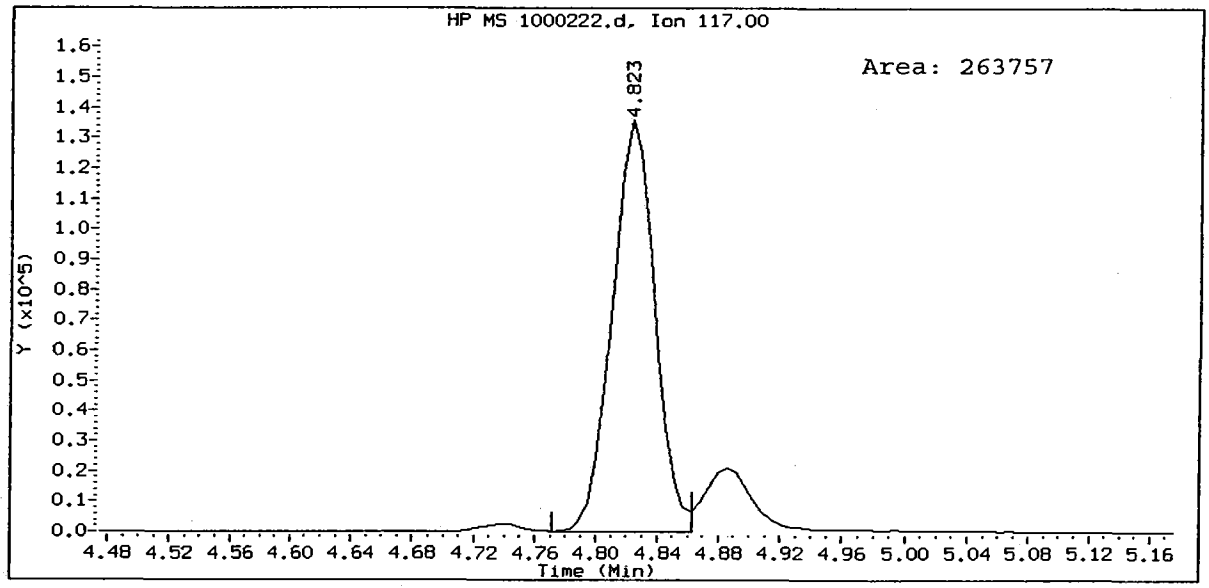
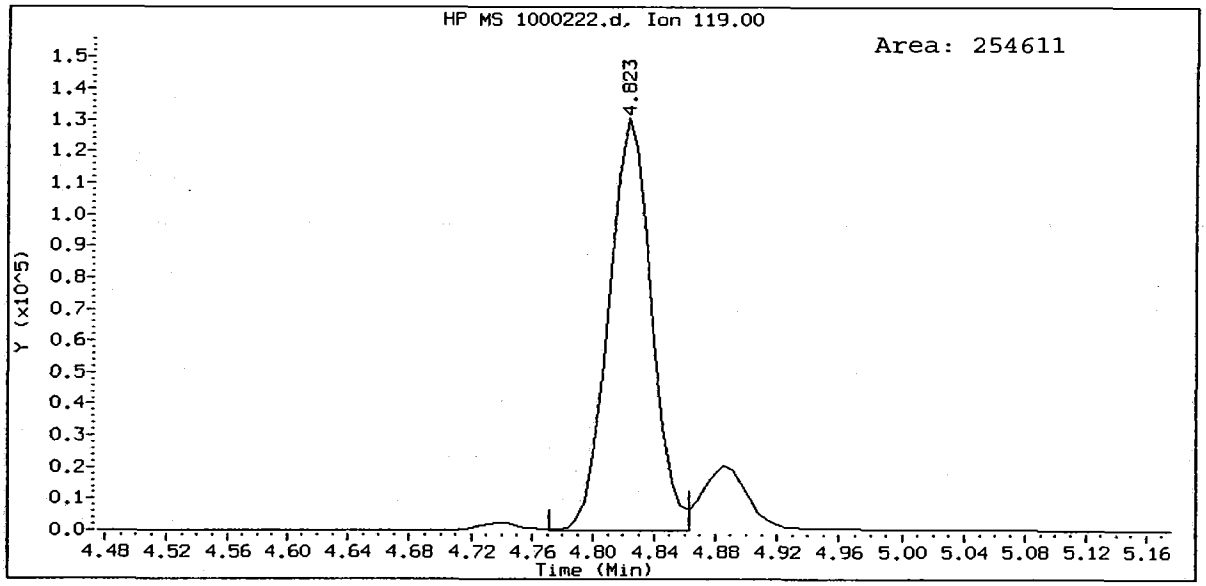
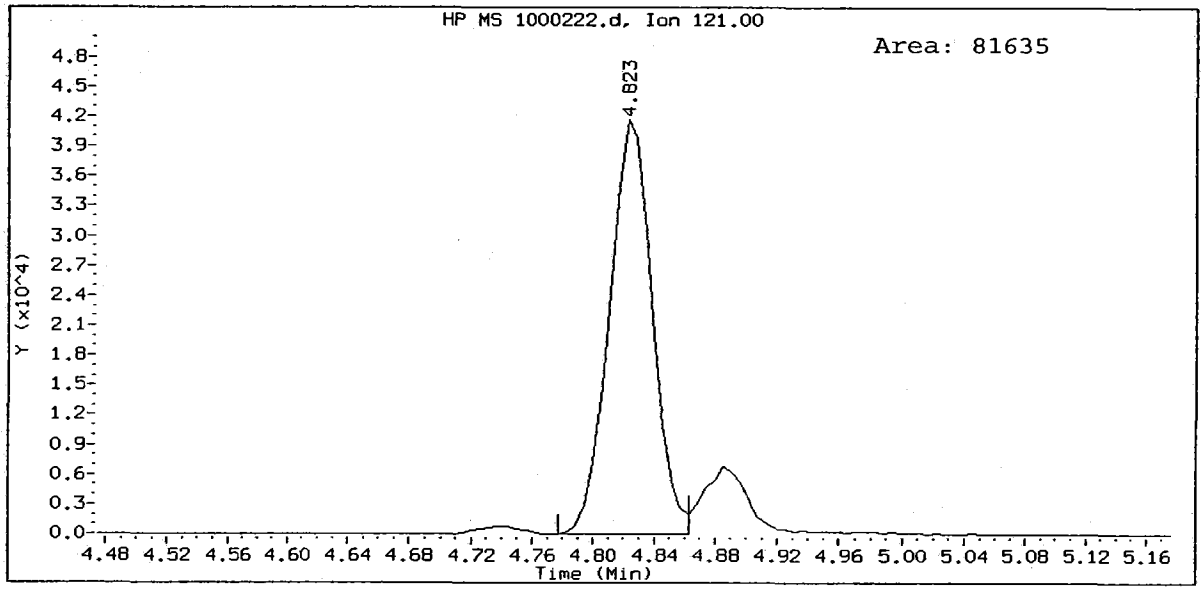
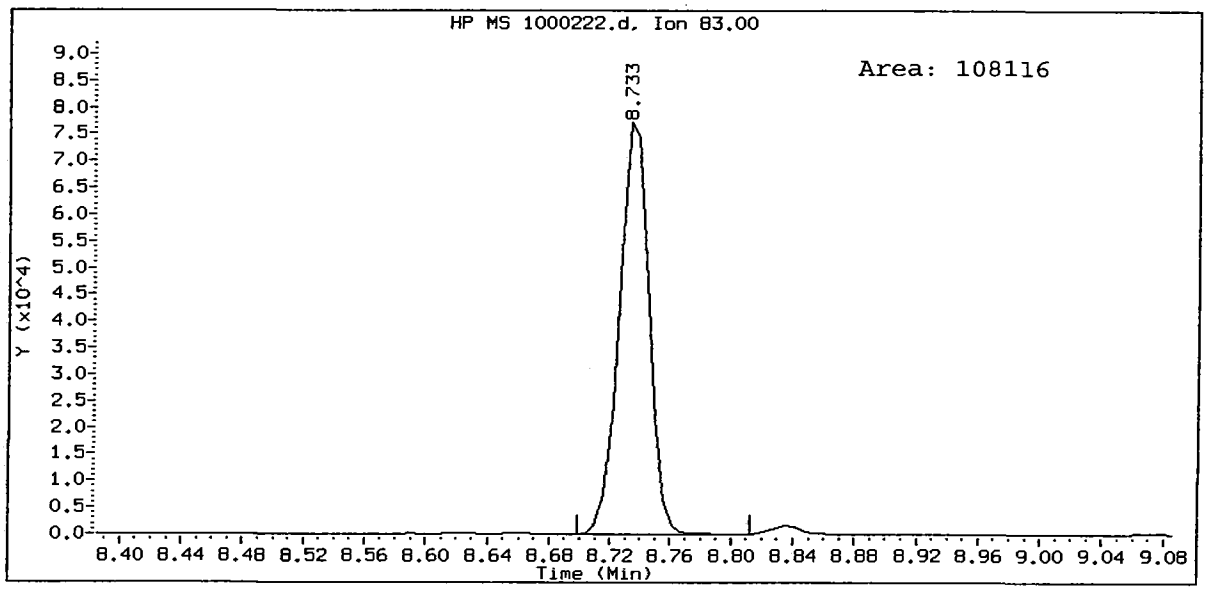
Carbon Tetrachloride Amount: 9.80

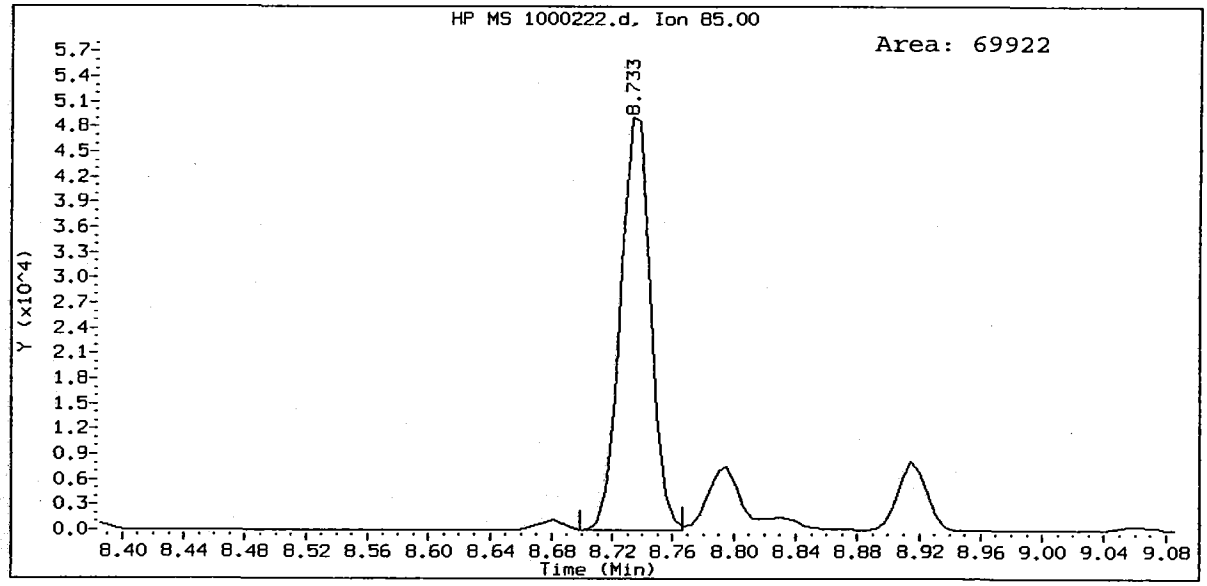


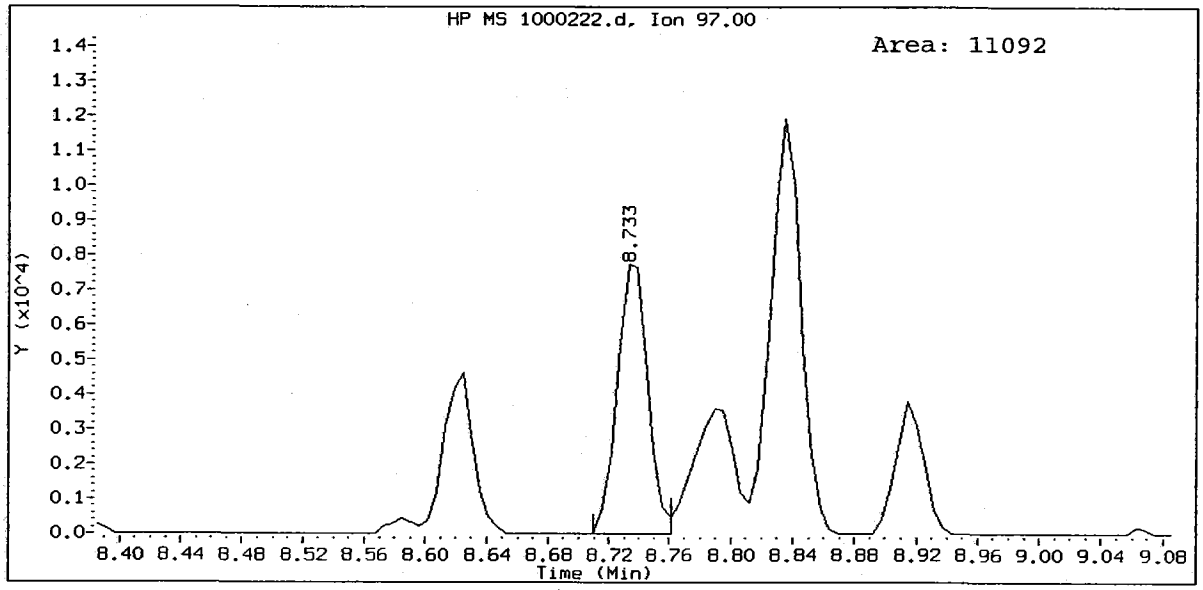




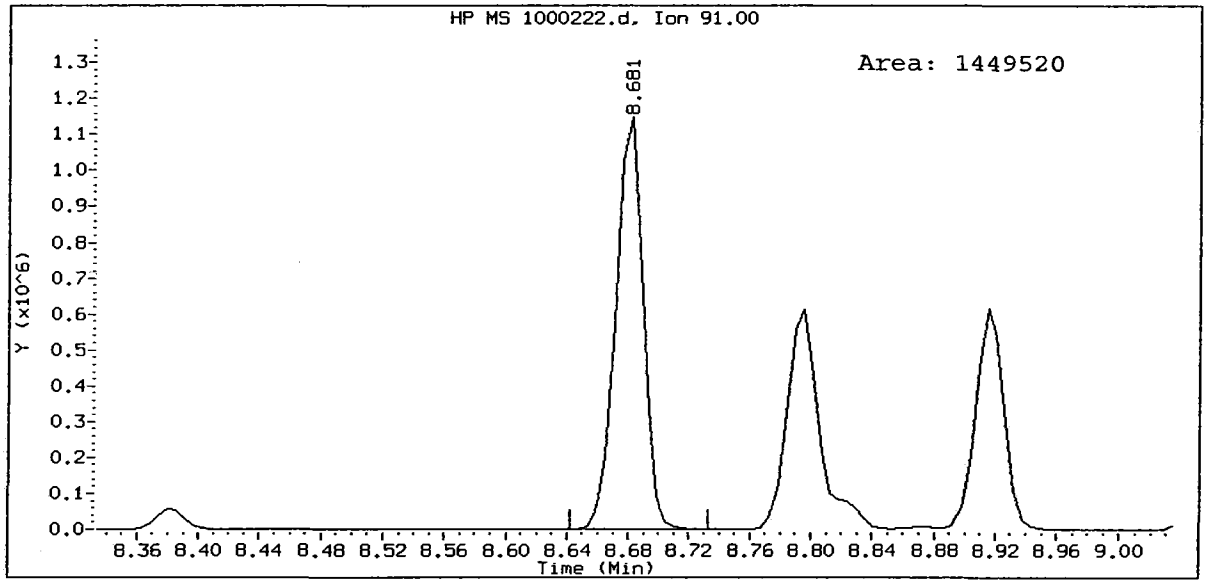
IC100, /chem1/nt10.i/22FEB10.b/1000222.d
1,1,2,2-Tetrachloroethane Amount: 9.54

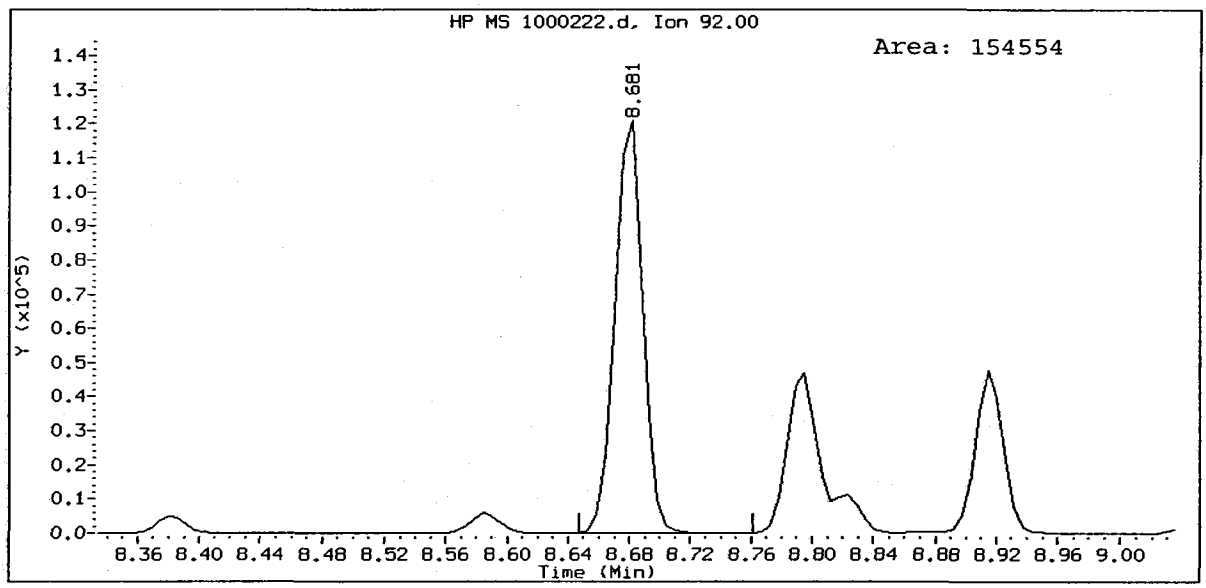


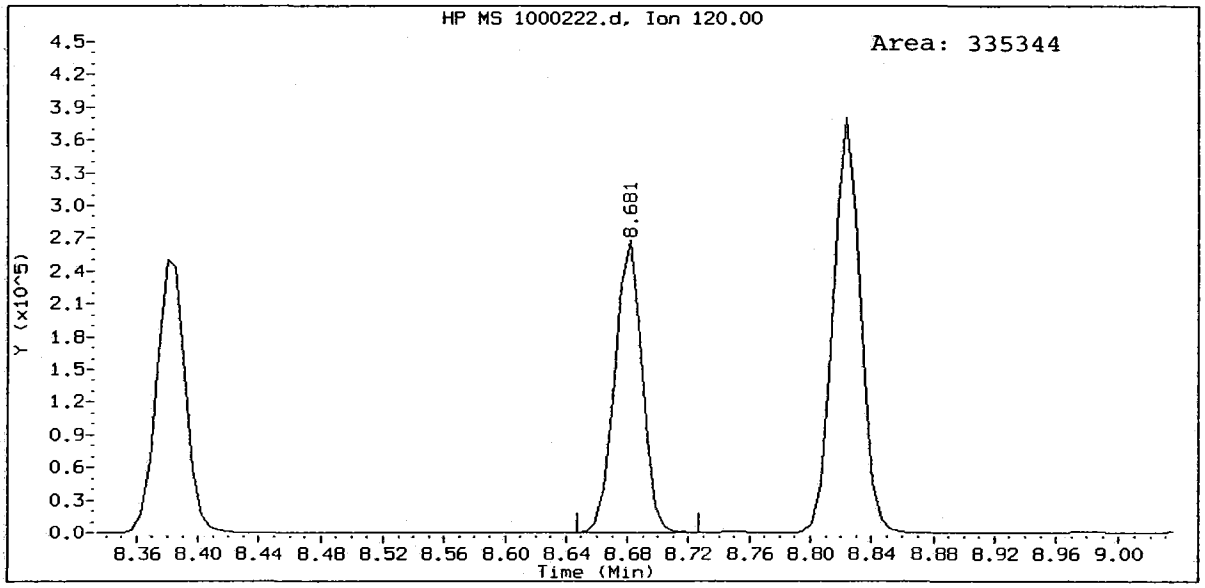




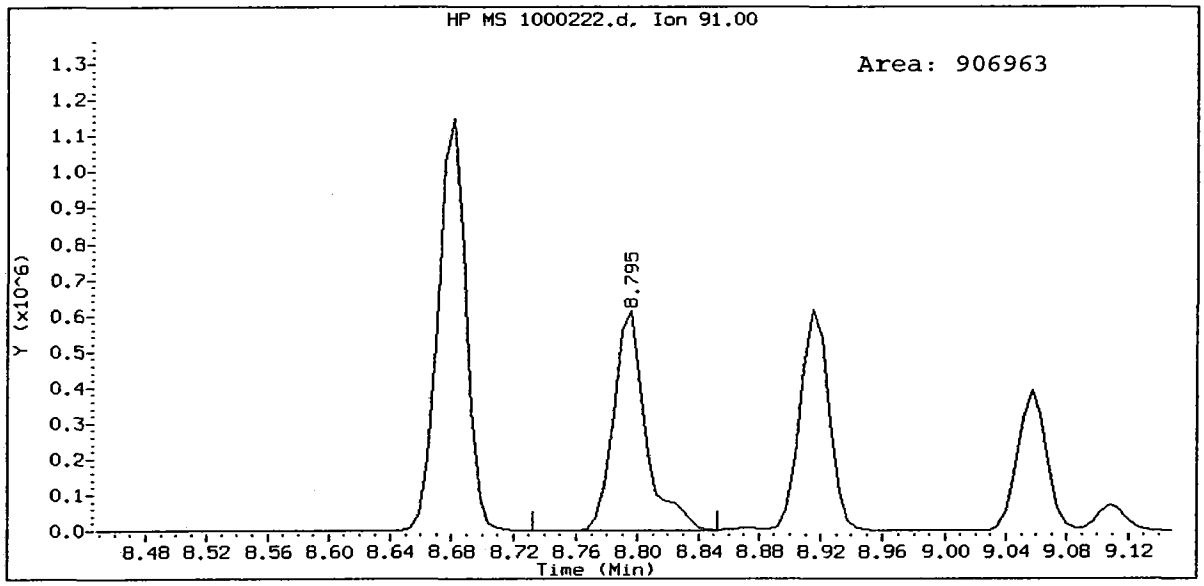
IC100, /chem1/nt10.i/22FEB10.b/1000222.d
N-Propyl Benzene Amount: 9.62

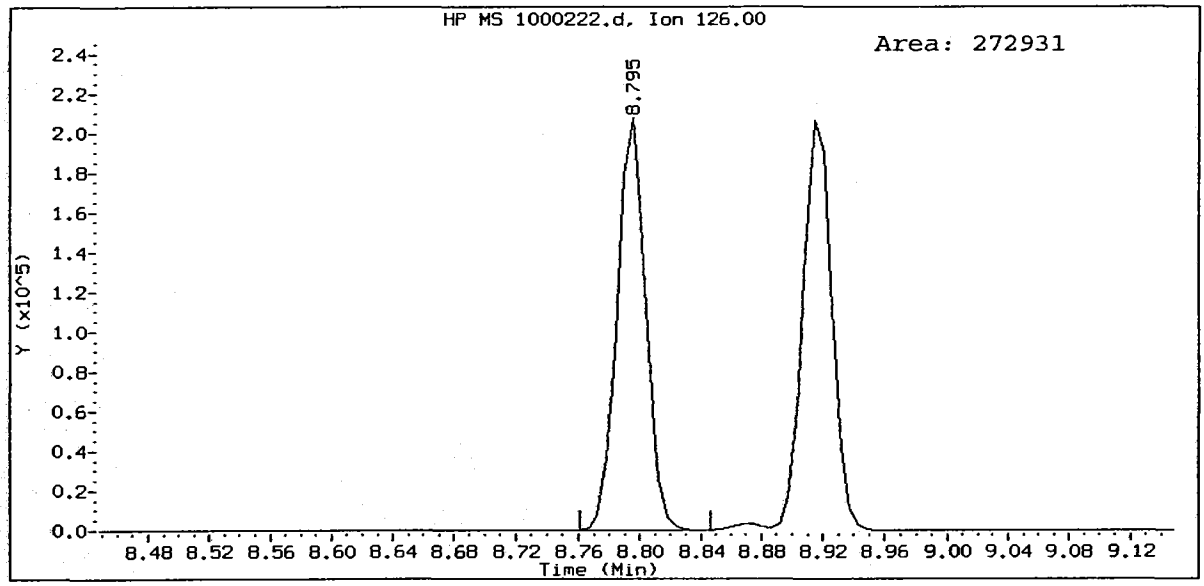


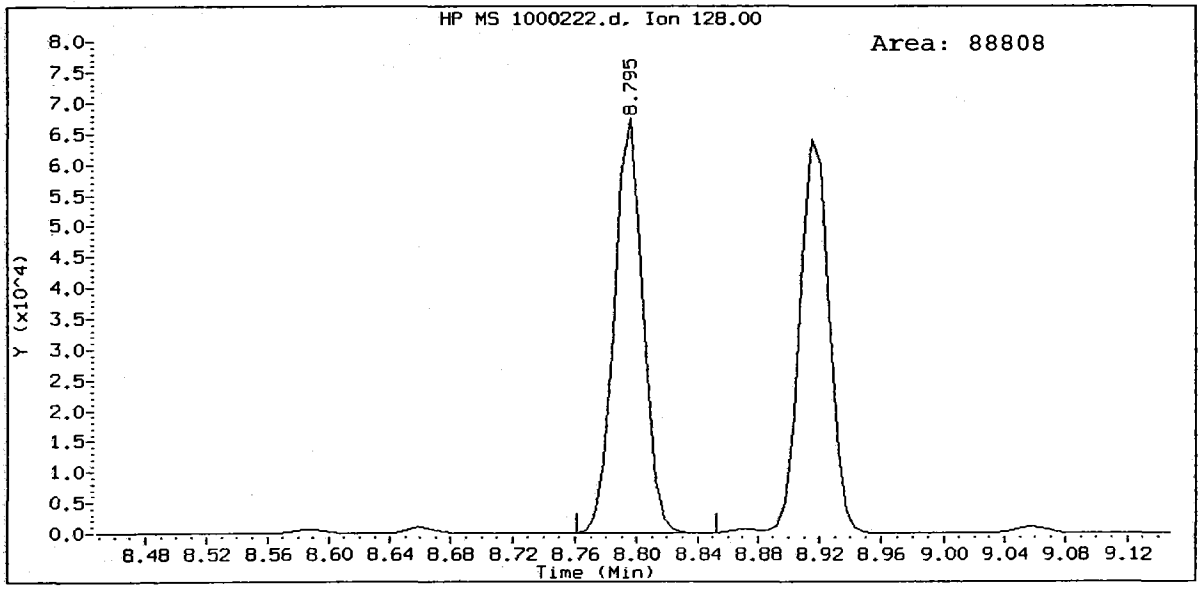




IC100, /chem1/nt10.i/22FEB10.b/1000222.d
2-Chloro Toluene Amount: 9.58







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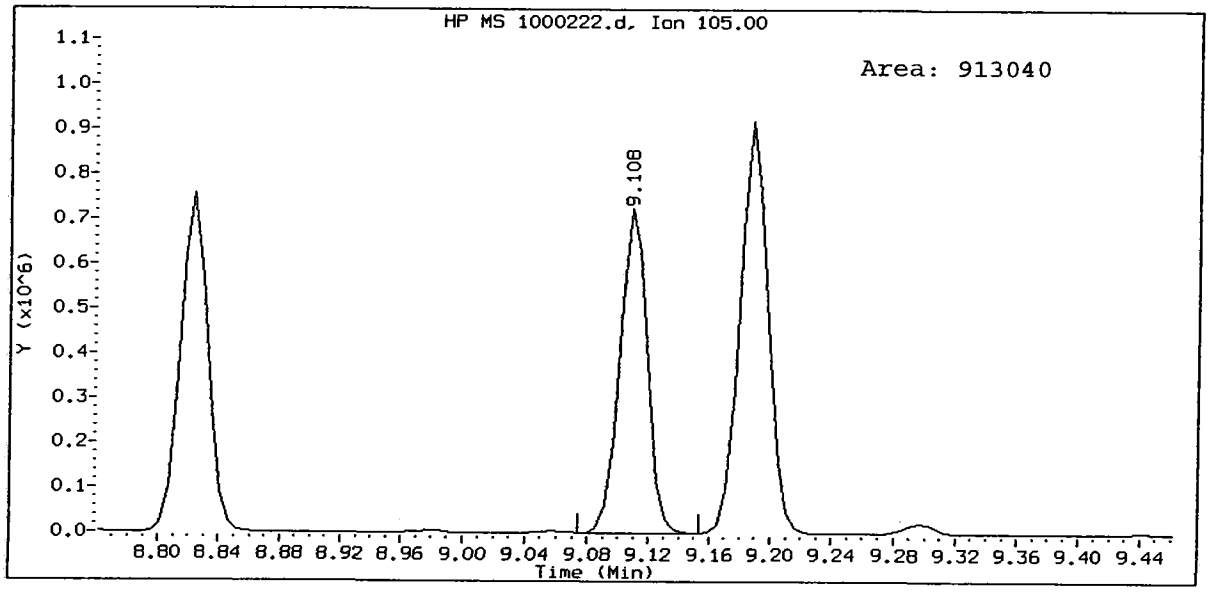
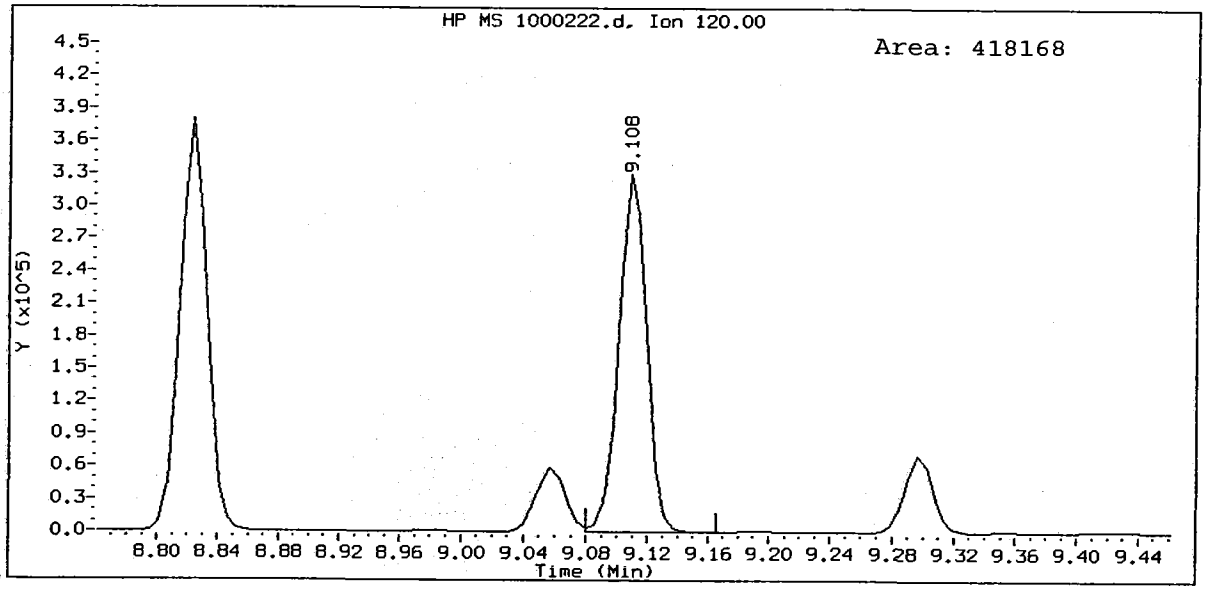
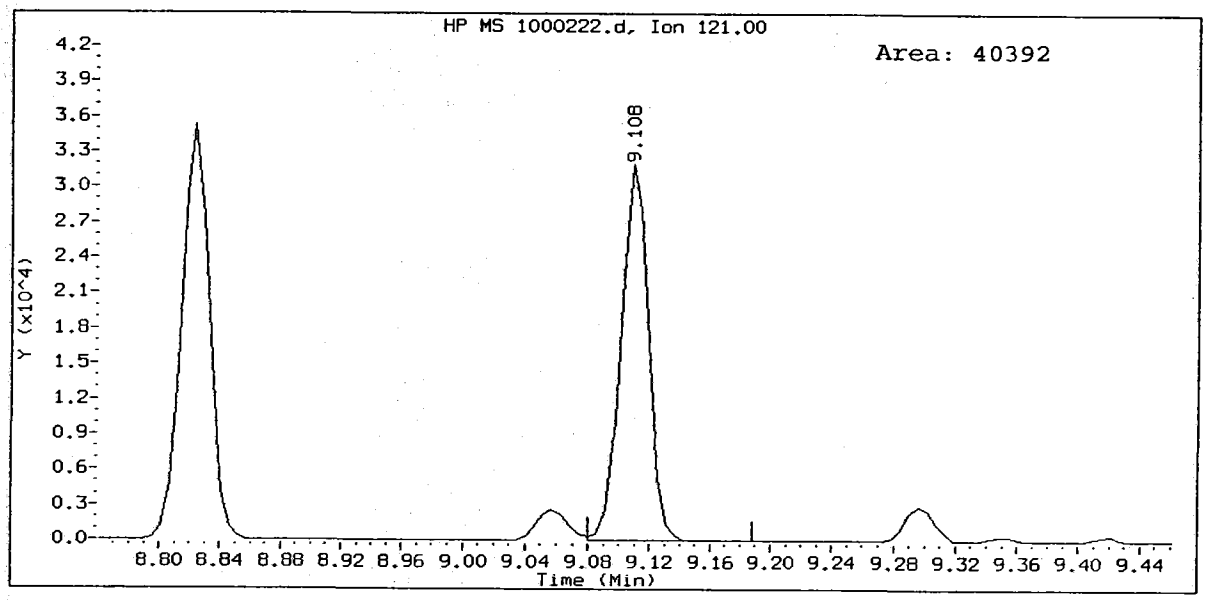
1,2,4-Trimethylbenzene Amount: 9.90







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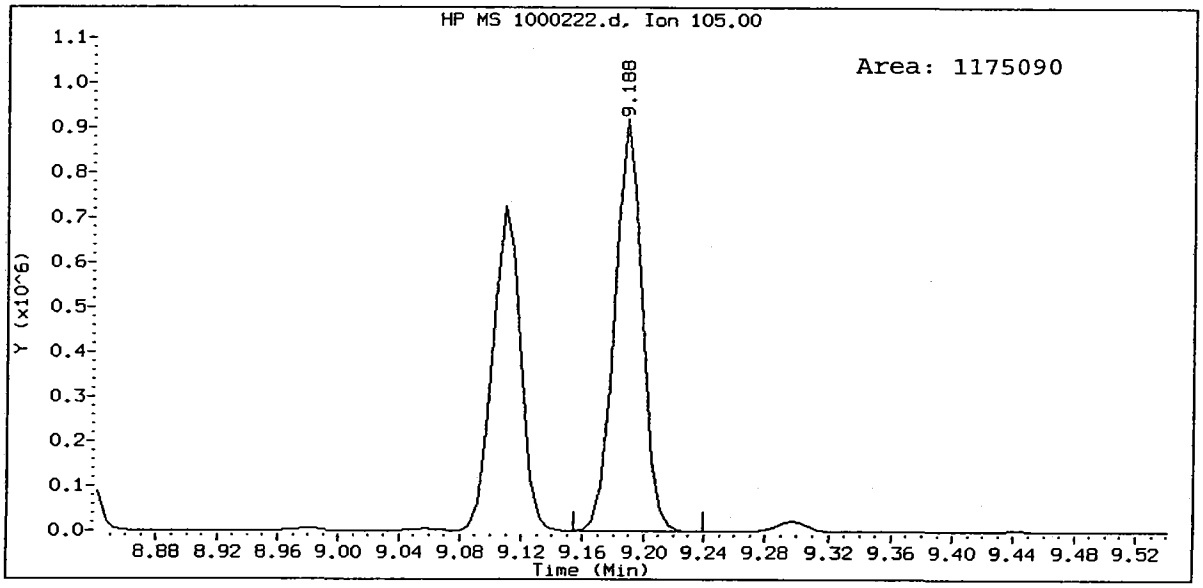
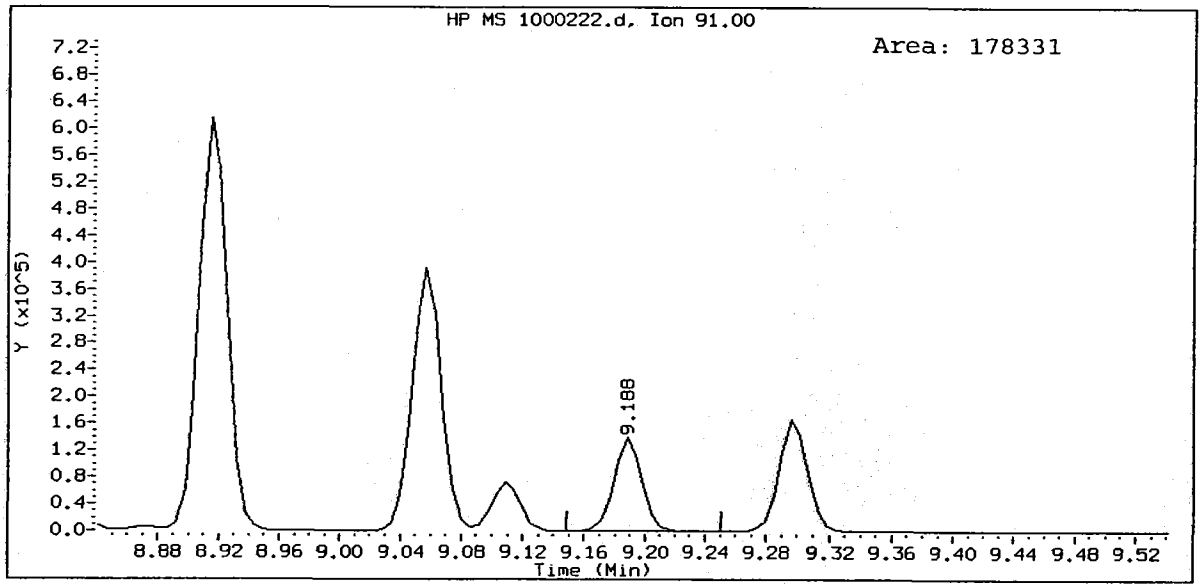
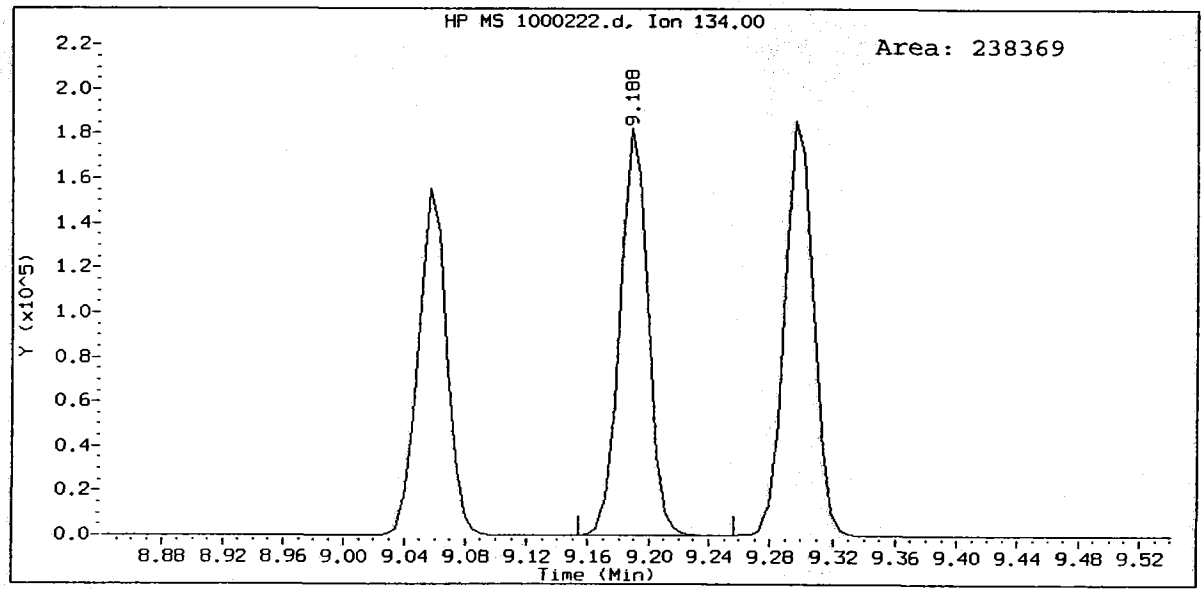
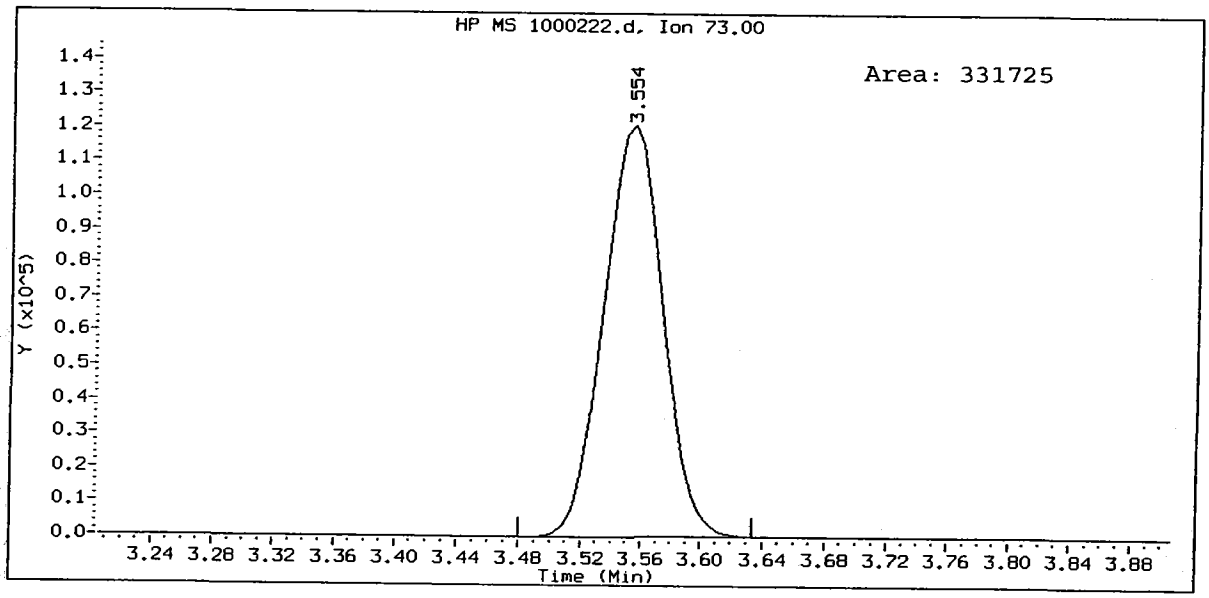
S-Butyl Benzene Amount: 9.70

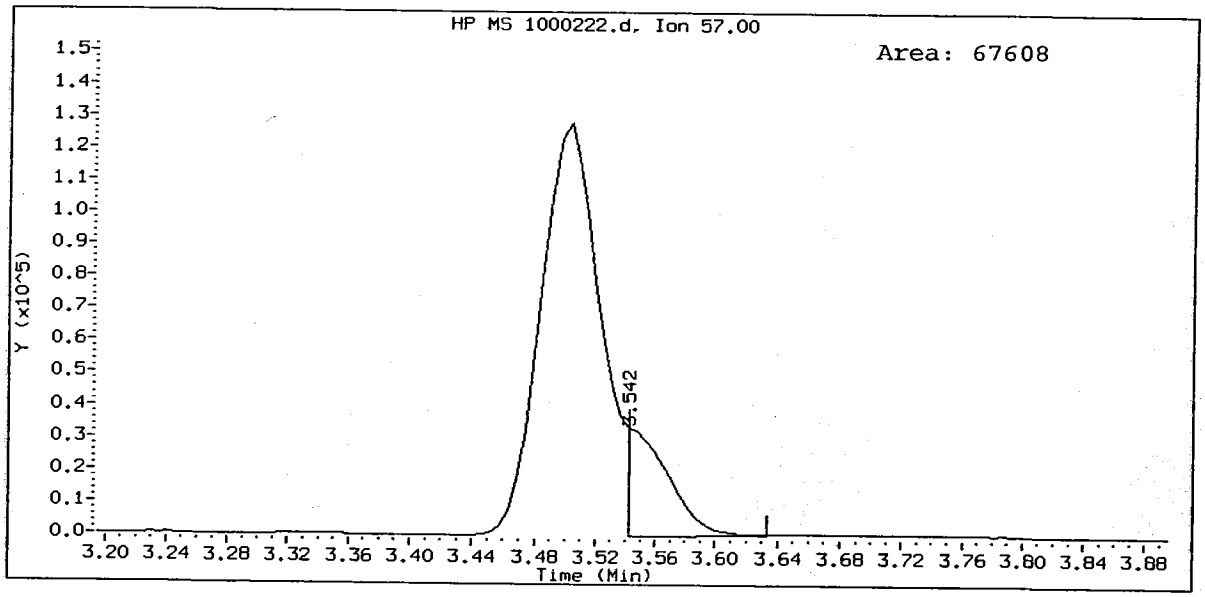


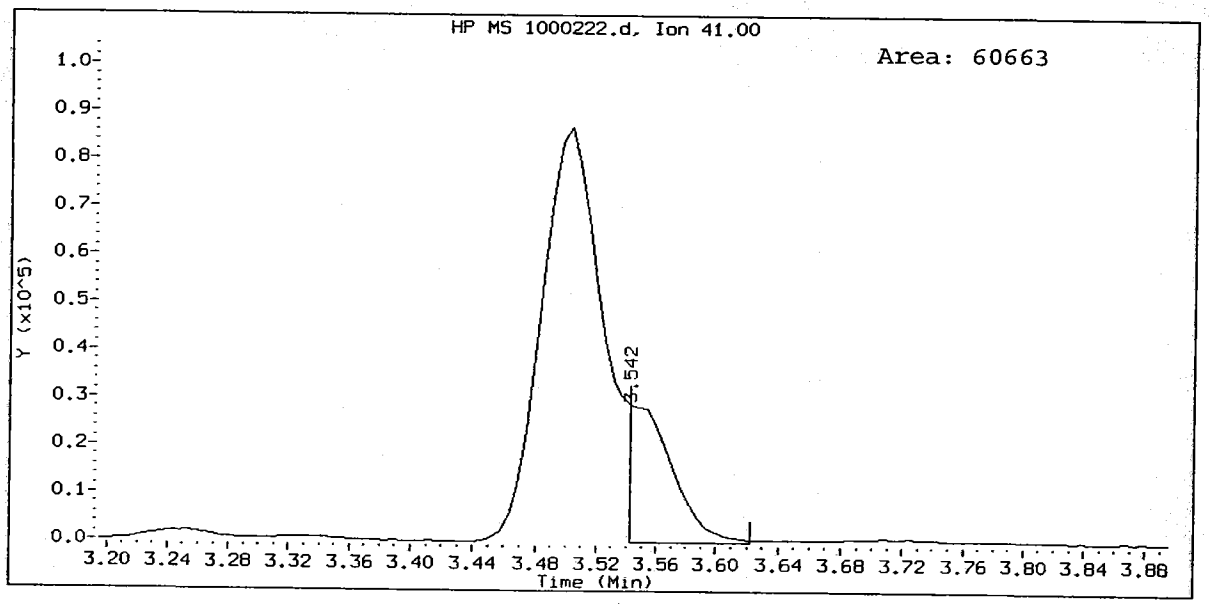




IC100, /chem1/nt10.i/22FEB10.b/1000222.d
Methyl tert butyl ether Amount: 9.94







Analytical Resources, Inc.

8260C

Data file : /chem1/nt10.i/22FEB10.b/2000222.d
Lab Smp Id: IC200 Client Smp ID: vstd6
Inj Date : 22-FEB-2010 16:41
Operator : ar Inst ID: nt10.i
Smp Info : IC200,10,10,0
Misc Info : 10-
Comment :
Method : /chem1/nt10.i/22FEB10.b/82600122L.m
Meth Date : 23-Feb-2010 15:01 aron Quant Type: ISTD
Cal Date : 22-FEB-2010 15:12 Cal File: 6000222.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	10.00000	Purge Volume (mL)
Sa	10.00000	Sample Amount (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Dichlorodifluoromethane	85	1.380	1.385	(0.262)	239933	20.0000	21.200
2 Chloromethane	50	1.539	1.545	(0.292)	304287	20.0000	17.974(M)
3 Vinyl Chloride	62	1.607	1.613	(0.305)	391841	20.0000	19.468
4 Bromomethane	94	1.886	1.892	(0.358)	336901	20.0000	19.406(M)
5 Chloroethane	64	1.994	2.000	(0.379)	299288	20.0000	18.935
6 Trichlorofluoromethane	101	2.119	2.125	(0.402)	544504	20.0000	19.246
8 Acrolein	56	2.990	2.996	(0.568)	122852	100.000	94.573
9 112Trichloro122Trifluoroethane	101	2.660	2.666	(0.505)	358432	20.0000	18.985
10 Acetone	43	3.326	3.326	(0.632)	185062	100.000	89.008
11 1,1-Dichloroethene	96	2.603	2.609	(0.494)	411740	20.0000	18.336
12 Bromoethane	108	2.876	2.882	(0.546)	260353	20.0000	18.998
13 Iodomethane	142	2.740	2.740	(0.520)	535428	20.0000	17.642
14 Methylene Chloride	84	3.246	3.252	(0.616)	349561	20.0000	18.687
15 Acrylonitrile	53	4.083	4.089	(0.775)	51870	20.0000	19.589
16 Methyl tert butyl ether	73	3.548	3.554	(0.674)	641872	20.0000	19.440(M)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	17 Carbon Disulfide	76	2.609	2.615	(0.495)	1394553	20.0000	18.966
	18 Trans-1,2-Dichloroethene	96	3.411	3.411	(0.648)	455222	20.0000	19.293
	20 Vinyl Acetate	43	4.282	4.282	(0.813)	423093	20.0000	20.263
	21 1,1-Dichloroethane	63	4.020	4.020	(0.763)	755790	20.0000	19.661
	22 2-Butanone	72	4.993	4.994	(0.948)	133736	100.000	100.00
	23 2,2-Dichloropropane	77	4.584	4.584	(0.870)	311230	20.0000	20.347
	24 Cis-1,2-Dichloroethene	96	4.498	4.498	(0.854)	489356	20.0000	18.589
*	25 Pentafluorobenzene	168	5.267	5.272	(1.000)	451239	10.0000	
	26 Chloroform	83	4.737	4.737	(0.900)	799079	20.0000	19.511
	27 Bromochloromethane	128	4.663	4.663	(0.885)	177302	20.0000	19.828
$	28 Dibromofluoromethane	111	4.880	4.880	(0.927)	191465	10.0000	10.174
	29 1,1,1-Trichloroethane	97	4.885	4.885	(0.928)	622355	20.0000	19.536
	30 1,1-Dichloropropene	75	4.982	4.982	(0.881)	719383	20.0000	19.802
	31 Carbon Tetrachloride	117	4.823	4.823	(0.853)	525977	20.0000	19.790
$	32 d4-1,2-Dichloroethane	65	5.289	5.289	(1.004)	165971	10.0000	10.029
	33 1,2-Dichloroethane	62	5.341	5.341	(0.945)	427929	20.0000	19.396
	34 Benzene	78	5.176	5.181	(0.915)	2002367	20.0000	19.510
*	35 1,4-Difluorobenzene	114	5.654	5.659	(1.000)	731744	10.0000	
	36 Trichloroethene	95	5.619	5.620	(0.994)	567340	20.0000	20.630
	37 1,2-Dichloropropane	63	6.001	6.007	(1.061)	439042	20.0000	19.760
	38 Bromodichloromethane	83	6.052	6.052	(1.070)	568082	20.0000	20.217
	39 Dibromomethane	93	5.927	5.927	(1.048)	177500	20.0000	19.991
	40 2-Chloroethyl Vinyl Ether	63	6.467	6.468	(1.144)	107595	20.0000	20.400
	41 4-Methyl-2-Pentanone	58	6.945	6.946	(1.228)	385820	100.000	98.444
	42 Cis 1,3-dichloropropene	75	6.502	6.502	(1.150)	656042	20.0000	20.979
$	43 d8-Toluene	98	6.632	6.633	(1.173)	889807	10.0000	9.980
	44 Toluene	92	6.667	6.667	(1.179)	1372714	20.0000	19.609
	45 Trans 1,3-Dichloropropene	75	6.963	6.963	(1.232)	495274	20.0000	21.539
	46 2-Hexanone	43	7.526	7.526	(0.975)	581043	100.000	97.109
	47 1,1,2-Trichloroethane	97	7.076	7.076	(1.252)	267998	20.0000	19.660
	48 1,3-Dichloropropane	76	7.264	7.264	(0.941)	488339	20.0000	19.871
	49 Tetrachloroethene	166	6.928	6.928	(0.898)	579433	20.0000	19.438
	50 Chlorodibromomethane	129	7.196	7.196	(0.932)	333202	20.0000	20.224
	51 1,2-Dibromoethane	107	7.361	7.361	(1.302)	246877	20.0000	20.391
	52 d5-Chlorobenzene	117	7.719	7.720	(1.000)	685726	10.0000	
	53 Chlorobenzene	112	7.731	7.731	(1.001)	1406843	20.0000	19.520
	54 Ethyl Benzene	91	7.748	7.748	(1.004)	2596930	20.0000	18.990
	55 1,1,1,2-Tetrachloroethane	131	7.776	7.776	(1.007)	424144	20.0000	19.235
	56 m,p-xylene	106	7.850	7.850	(1.017)	2020109	40.0000	39.198
	58 o-Xylene	106	8.158	8.158	(1.057)	900946	20.0000	19.288
	59 Styrene	104	8.197	8.198	(1.062)	1453228	20.0000	19.772
	60 Isopropyl Benzene	105	8.380	8.380	(0.891)	2345567	20.0000	19.394
	61 Bromoform	173	8.215	8.215	(0.873)	145690	20.0000	20.570
	62 1,1,2,2-Tetrachloroethane	83	8.732	8.733	(0.928)	193697	20.0000	18.652(H)
	63 4-Bromofluorobenzene	95	8.584	8.585	(1.112)	274160	10.0000	9.855
	64 1,2,3-Trichloropropane	110	8.835	8.835	(0.939)	61797	20.0000	19.694
	65 Trans-1,4-Dichloro 2-Butene	53	8.869	8.863	(0.943)	39300	20.0000	19.186(H)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
66	N-Propyl Benzene	91	8.681	8.681	(0.923)	2720005	20.0000	19.696(H)
67	Bromobenzene	156	8.664	8.664	(0.921)	456865	20.0000	19.729
68	1,3,5-Trimethyl Benzene	105	8.823	8.824	(0.938)	1734373	20.0000	19.412
69	2-Chloro Toluene	91	8.795	8.795	(0.935)	1669918	20.0000	19.252
70	4-Chloro Toluene	91	8.915	8.915	(0.947)	1480492	20.0000	19.704
71	T-Butyl Benzene	119	9.057	9.057	(0.962)	1415200	20.0000	18.741
72	1,2,4-Trimethylbenzene	105	9.108	9.108	(0.968)	1624284	20.0000	19.211
73	S-Butyl Benzene	105	9.188	9.188	(0.976)	2079712	20.0000	18.734
74	4-Isopropyl Toluene	119	9.296	9.296	(0.988)	1594232	20.0000	18.834
75	1,3-Dichlorobenzene	146	9.353	9.353	(0.994)	746220	20.0000	19.211
* 76	d4-1,4-Dichlorobenzene	152	9.410	9.410	(1.000)	229111	10.0000	
77	1,4-Dichlorobenzene	146	9.421	9.421	(1.001)	705027	20.0000	19.022
78	N-Butyl Benzene	91	9.620	9.620	(1.022)	1342824	20.0000	18.562
$ 79	d4-1,2-Dichlorobenzene	152	9.734	9.734	(1.034)	171133	10.0000	9.605(H)
80	1,2-Dichlorobenzene	146	9.740	9.740	(1.035)	535940	20.0000	18.341
81	1,2-Dibromo 3-Chloropropane	75	10.354	10.355	(1.100)	19029	20.0000	20.538
82	1,2,4-Trichlorobenzene	180	10.884	10.878	(1.157)	261854	20.0000	18.384
83	Hexachloro 1,3-Butadiene	225	10.855	10.855	(1.154)	148682	20.0000	17.538
84	Naphthalene	128	11.140	11.140	(1.184)	354957	20.0000	18.338
85	1,2,3-Trichlorobenzene	180	11.282	11.282	(1.199)	174779	20.0000	18.100

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: 2000222.d
Lab Smp Id: IC200
Analysis Type: VOA
Quant Type: ISTD
Operator: ar
Method File: /chem1/nt10.i/22FEB10.b/82600122L.m
Misc Info: 10-

Calibration Date: 22-FEB-2010
Calibration Time: 17:11
Client Smp ID: vstd6
Level: LOW
Sample Type: WATER

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
25 Pentafluorobenzen	456228	228114	912456	451239	-1.09
35 1,4-Difluorobenze	740651	370326	1481302	731744	-1.20
52 d5-Chlorobenzene	686240	343120	1372480	685726	-0.07
76 d4-1,4-Dichlorobe	249963	124982	499926	229111	-8.34

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
25 Pentafluorobenzen	5.27	4.77	5.77	5.27	-0.11
35 1,4-Difluorobenze	5.66	5.16	6.16	5.65	-0.10
52 d5-Chlorobenzene	7.72	7.22	8.22	7.72	0.00
76 d4-1,4-Dichlorobe	9.41	8.91	9.91	9.41	0.00

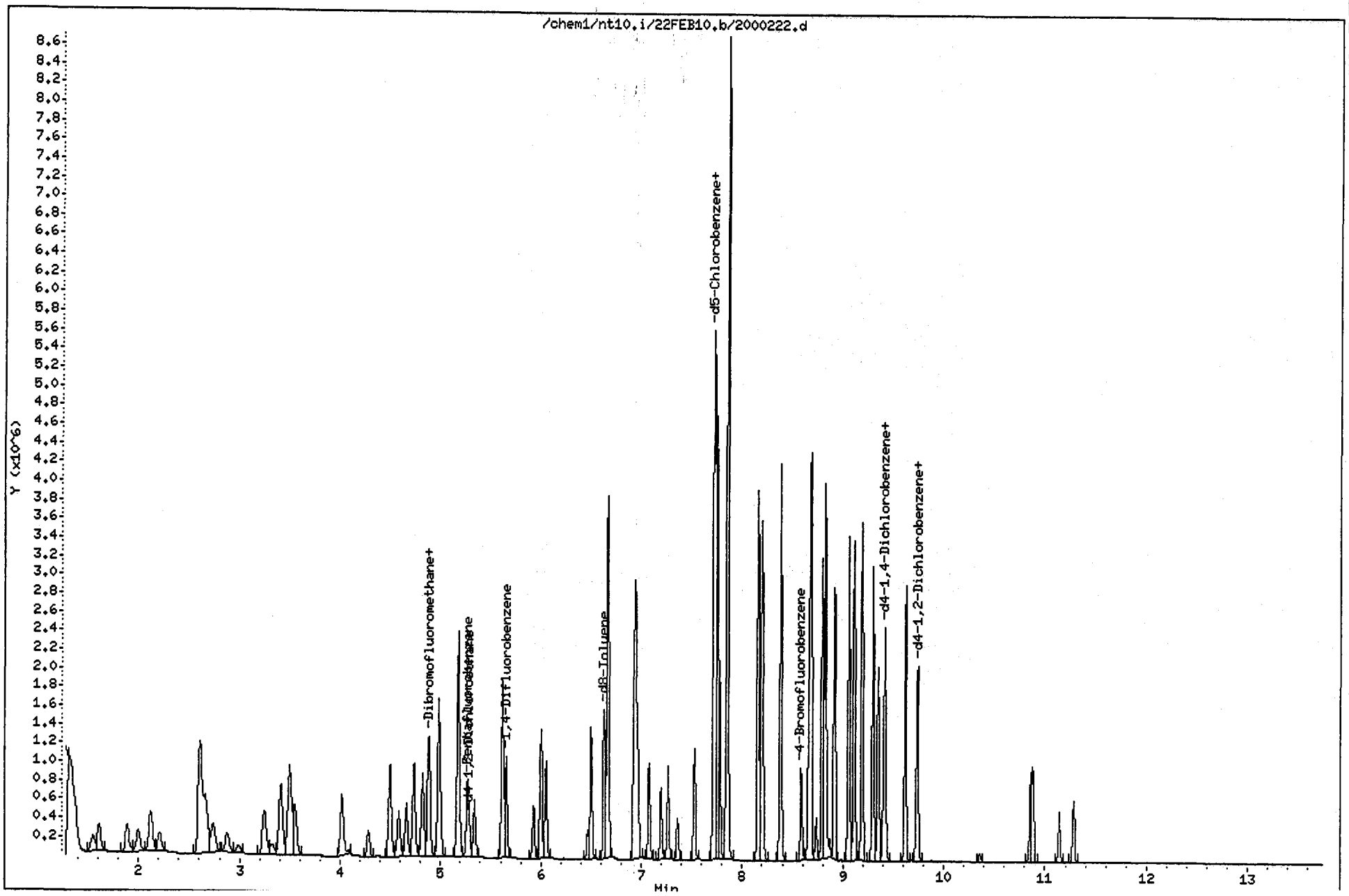
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem1/nt10.i/22FEB10.b/2000222.d
Date : 22-FEB-2010 16:41
Client ID: vstd6
Sample Info: IC200,10,10,0

Column phase: RTX502.2

Instrument: nt10.i

Operator: ar
Column diameter: 0.18



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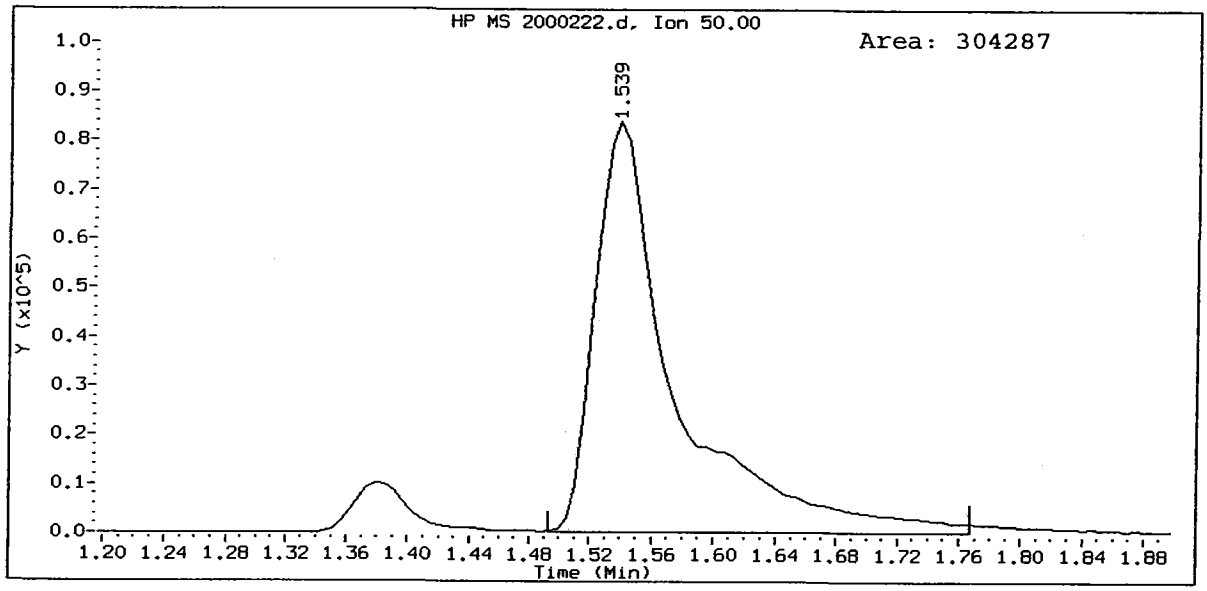
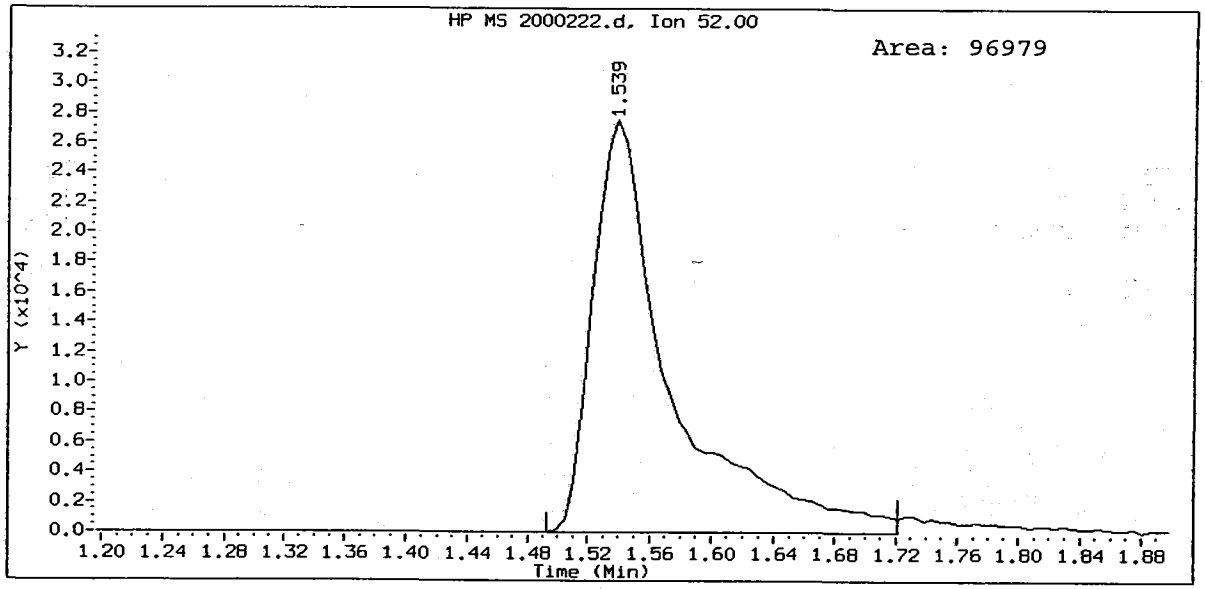
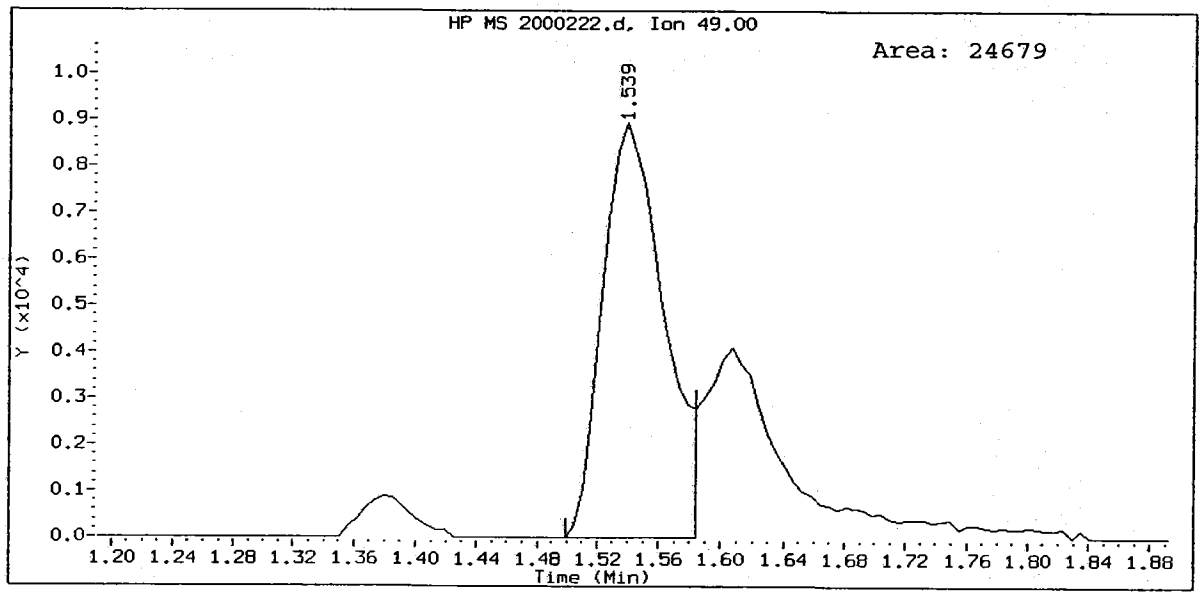
Chloromethane Amount: 17.97







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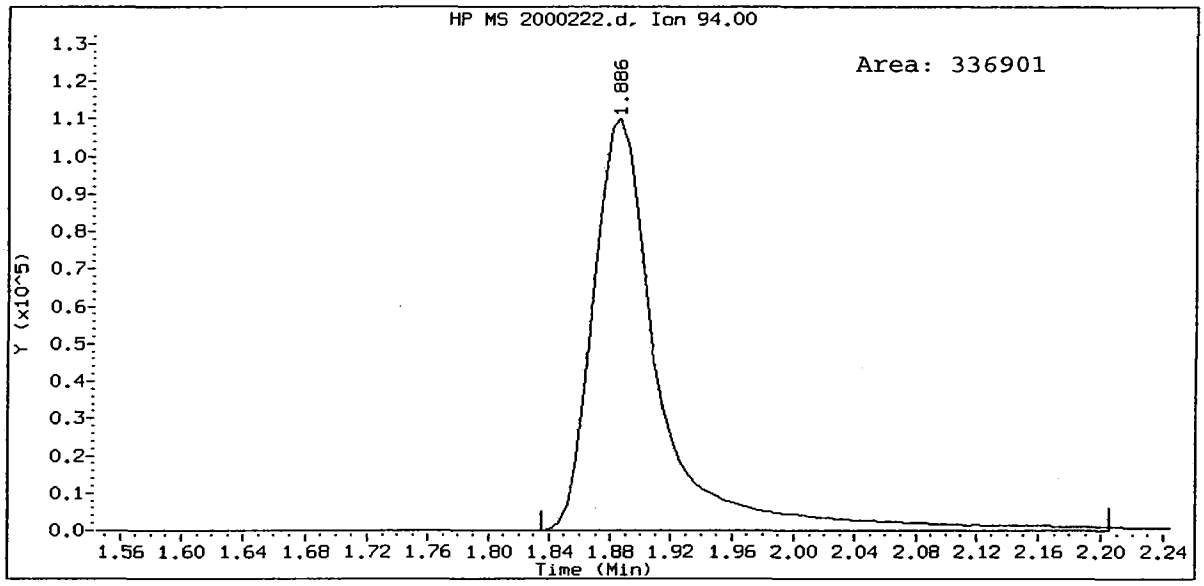
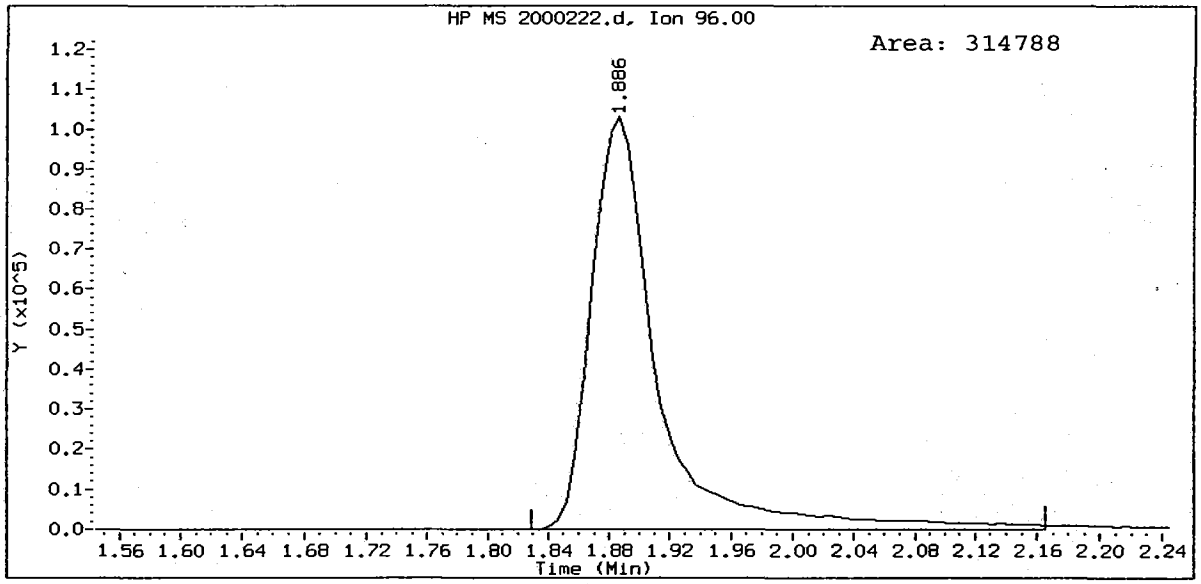
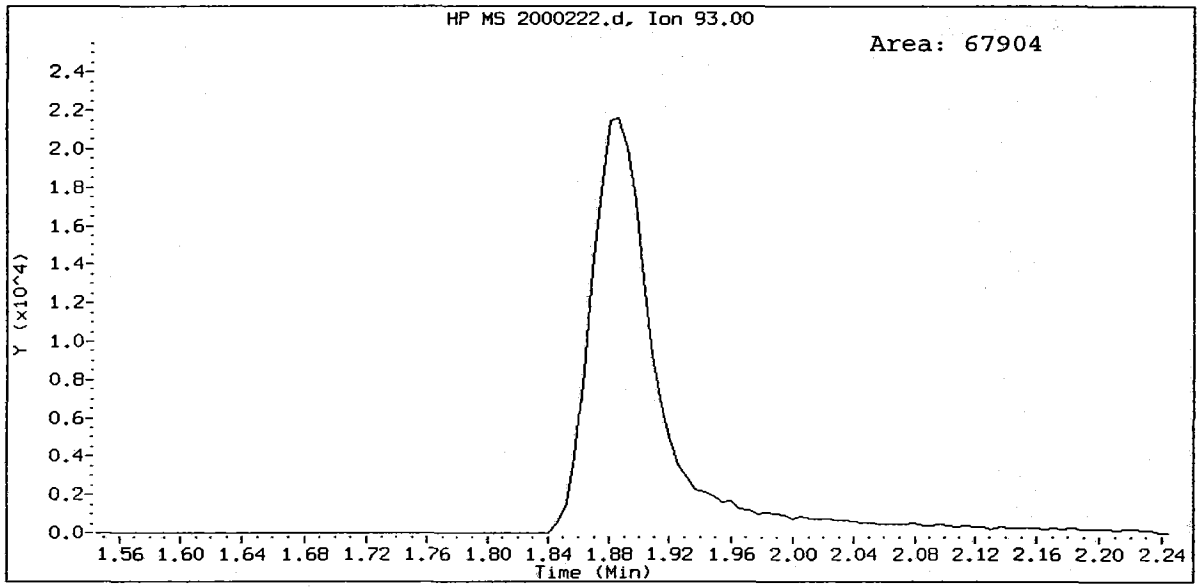
Bromomethane Amount: 19.41







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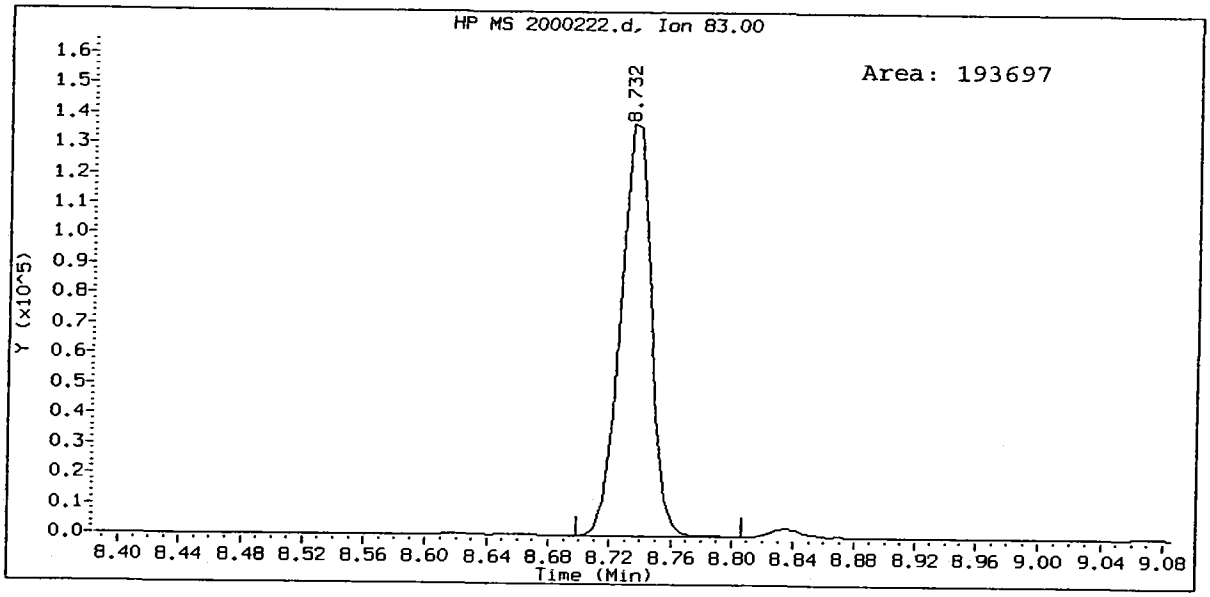
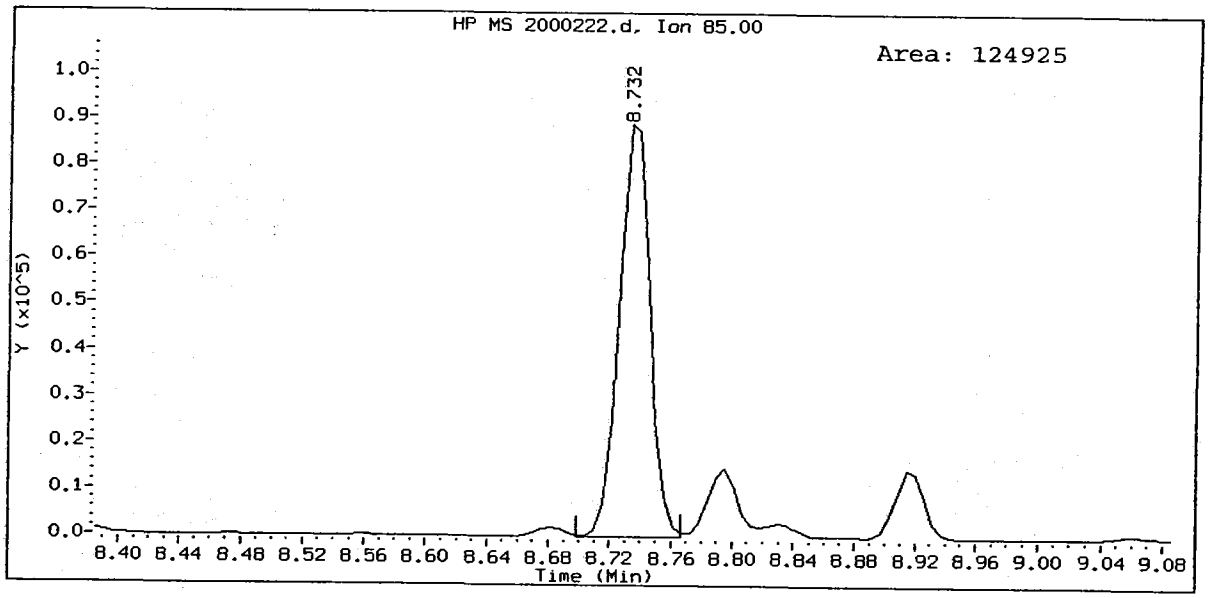
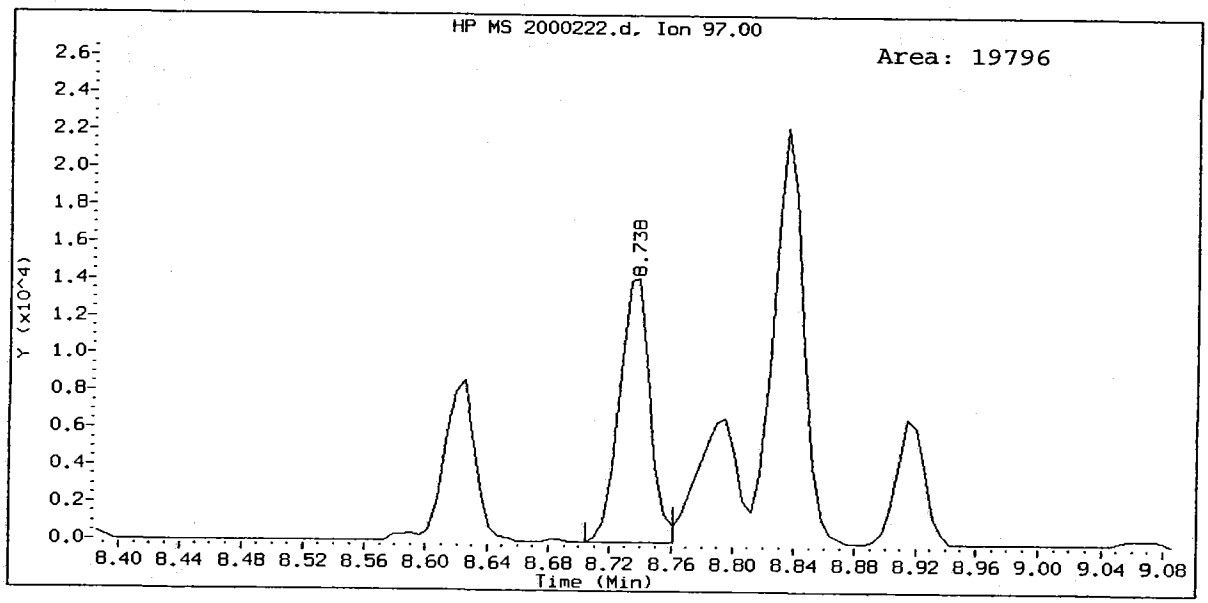
1,1,2,2-Tetrachloroethane Amount: 18.65







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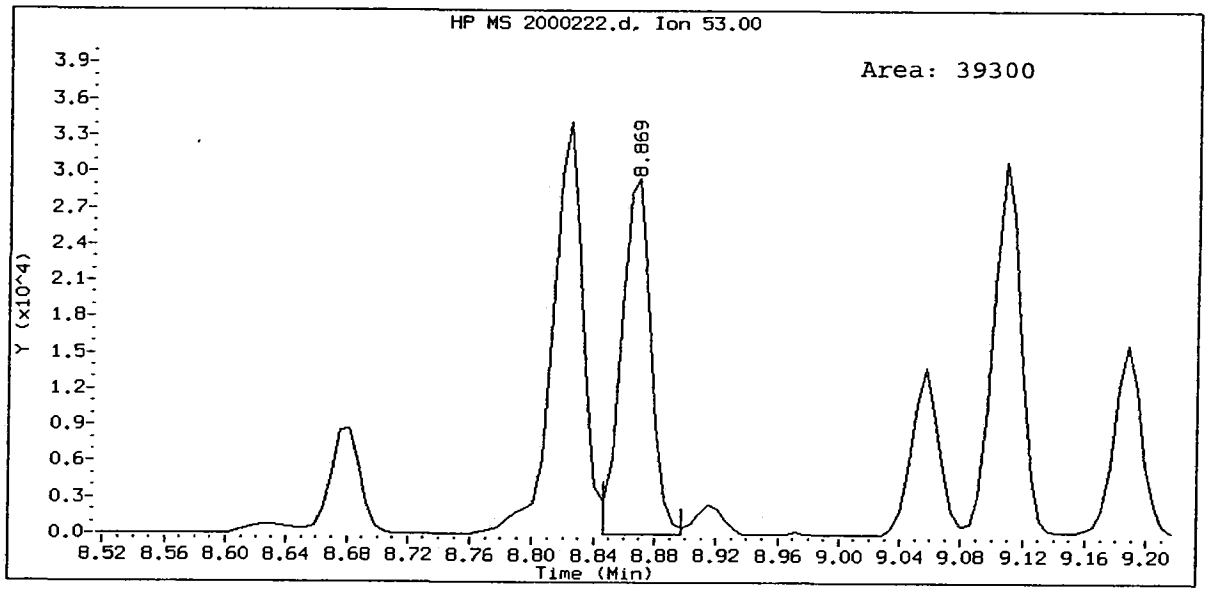
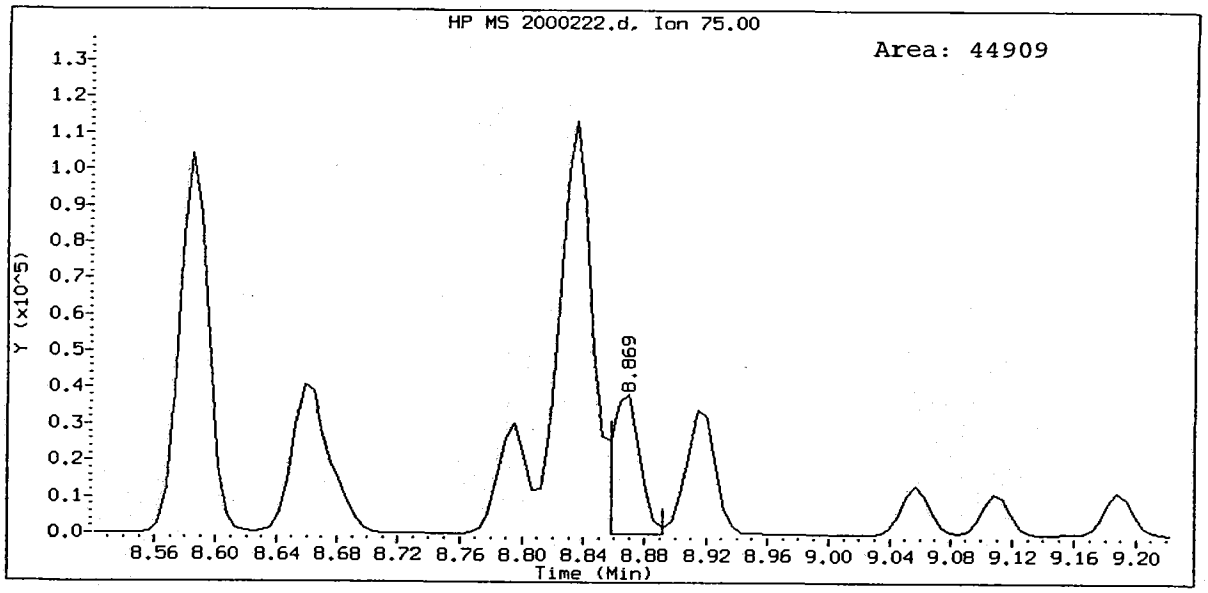
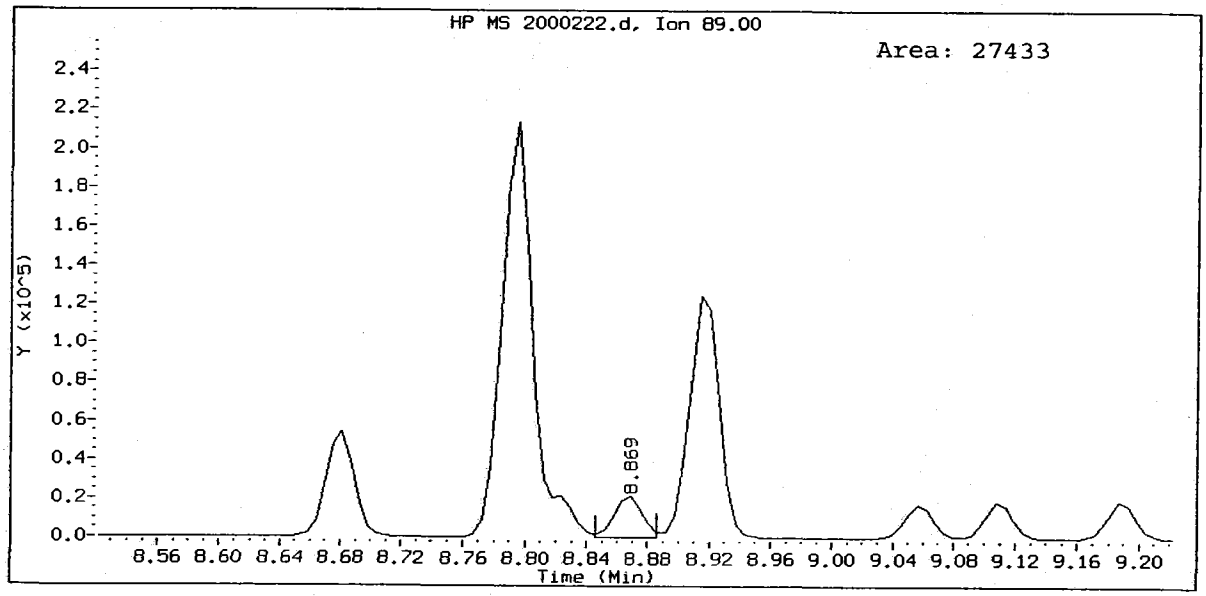
Trans-1,4-Dichloro 2-Butene Amount: 19.19







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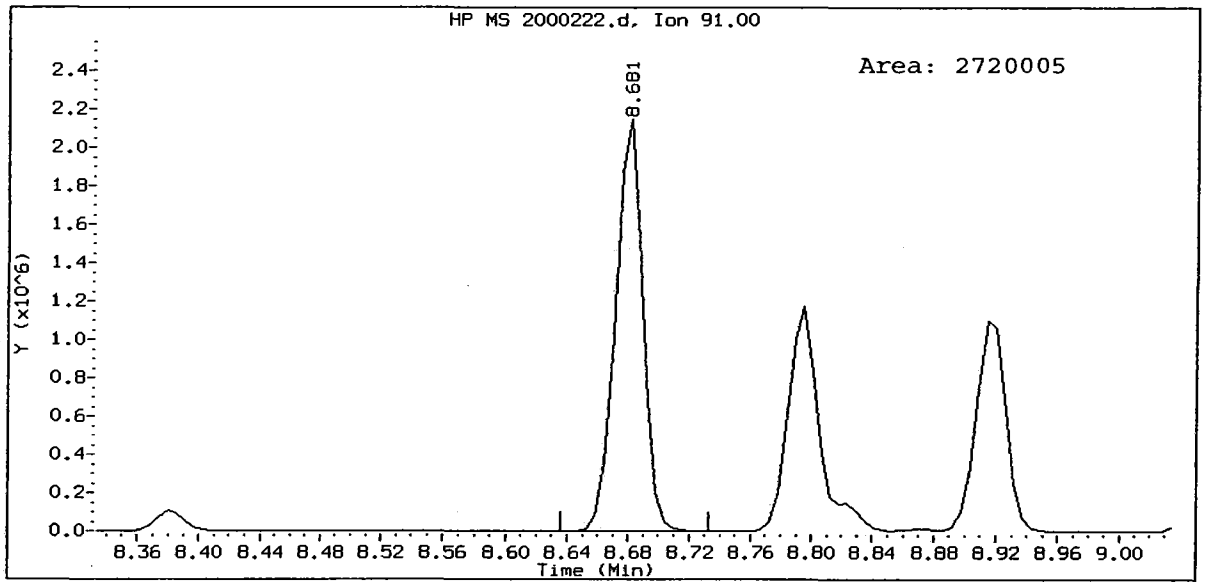
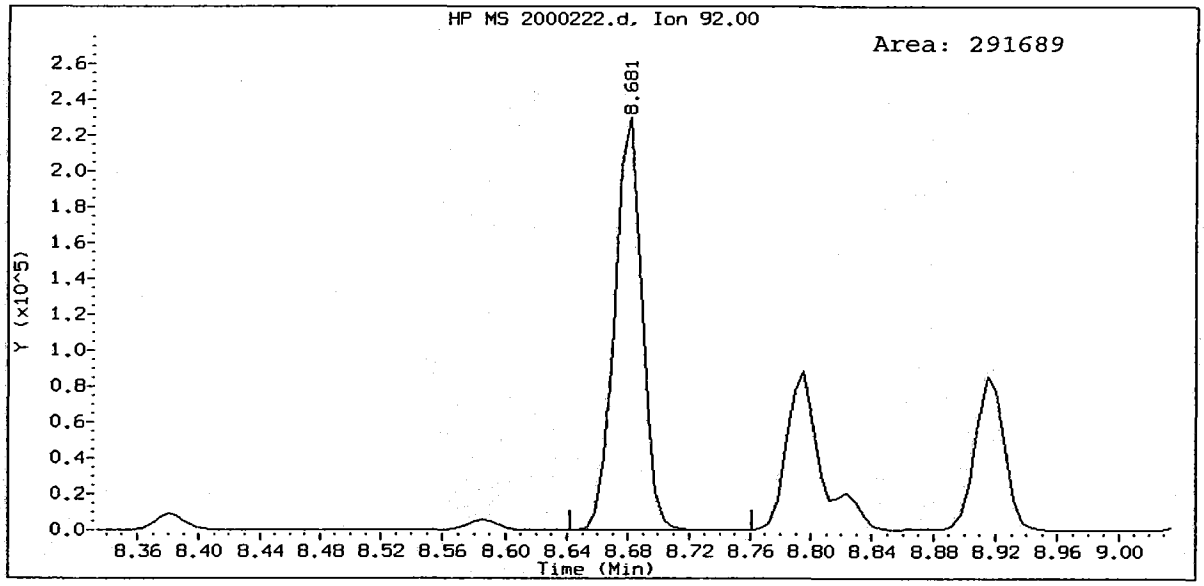
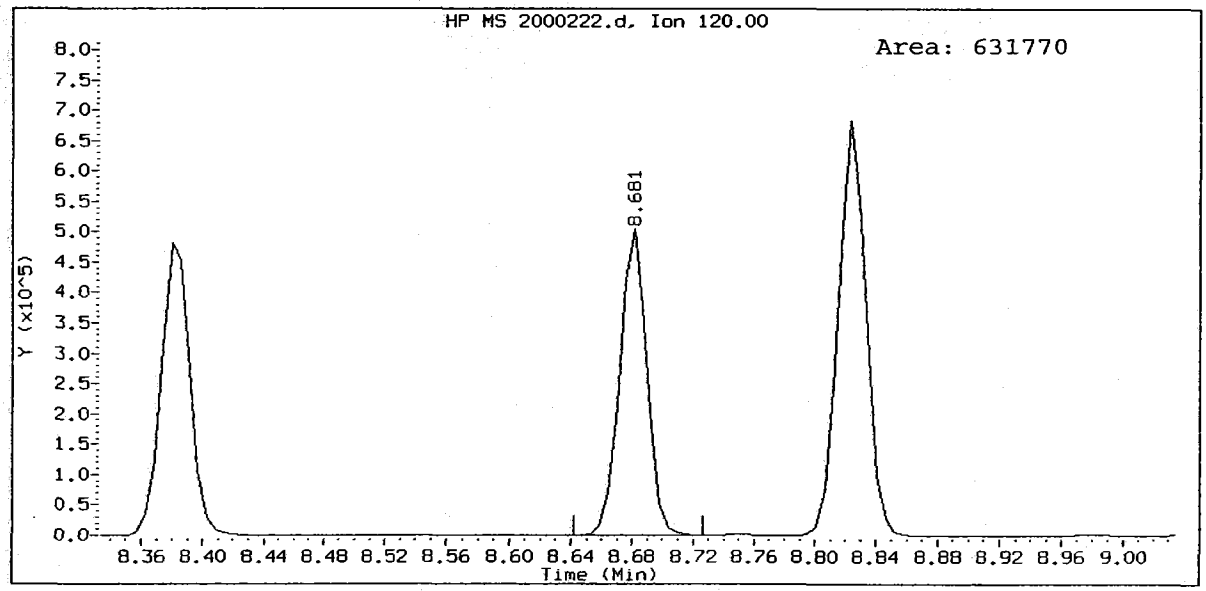
N-Propyl Benzene Amount: 19.70







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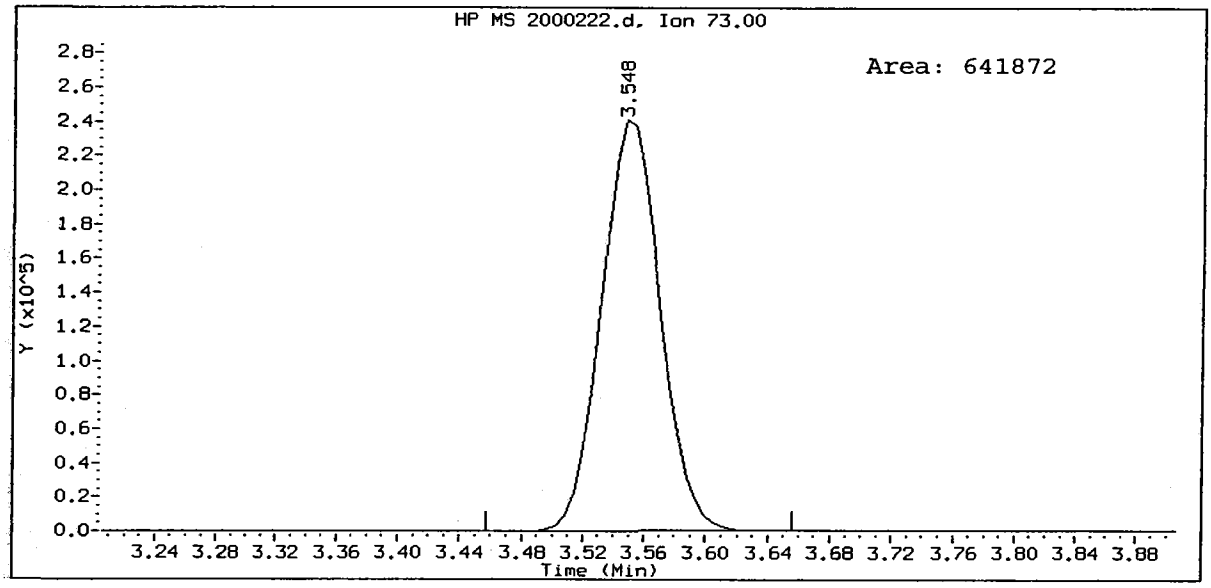
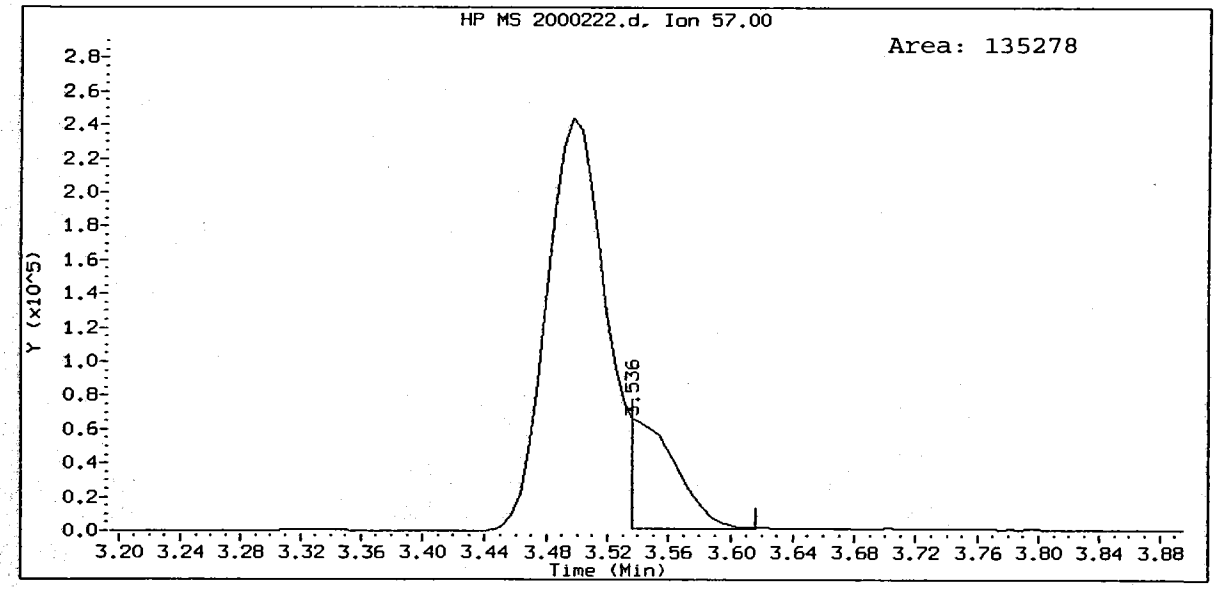
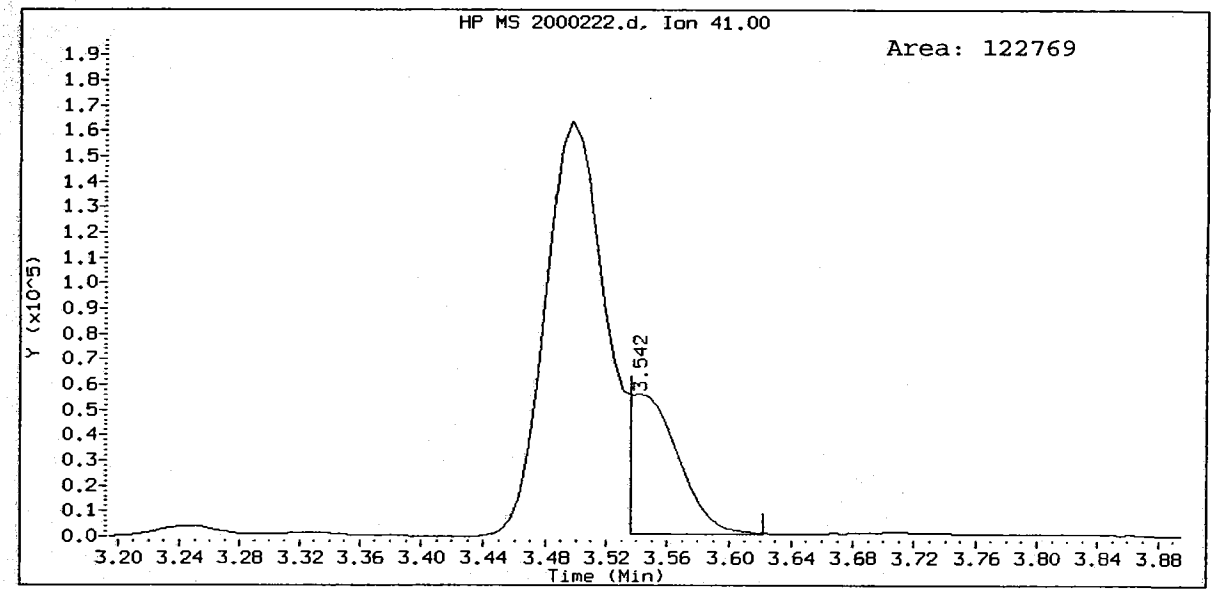
Methyl tert butyl ether Amount: 19.44







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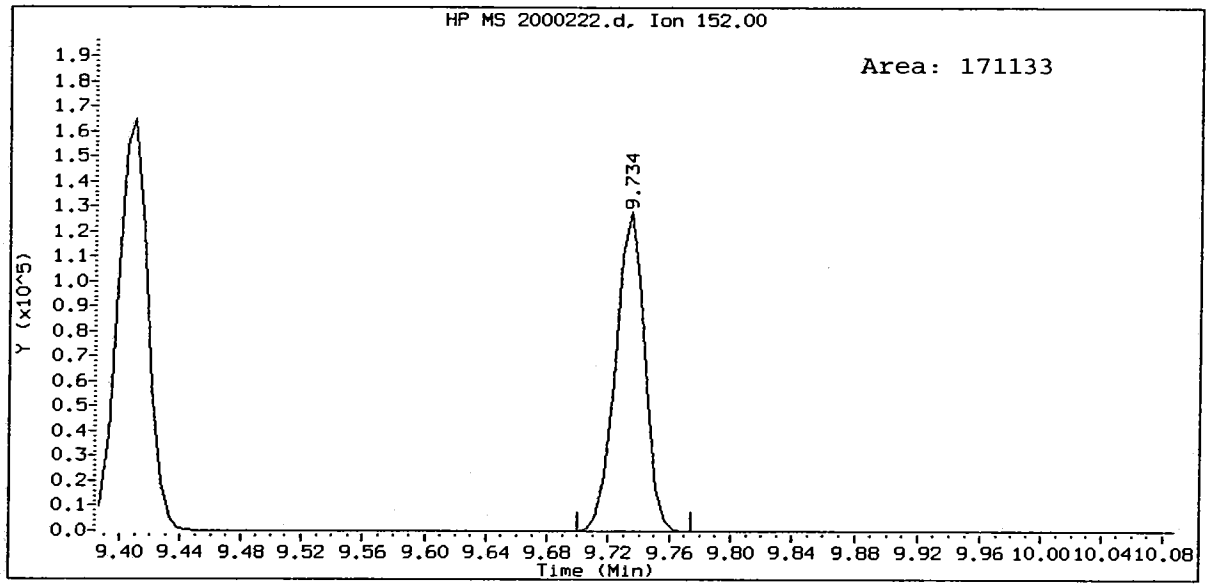
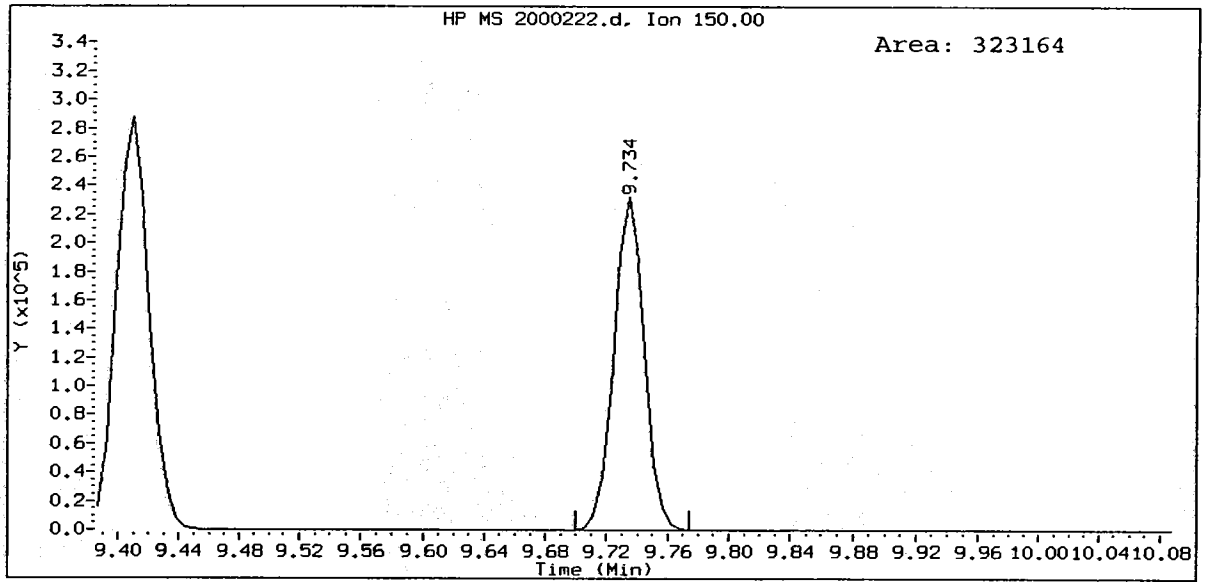
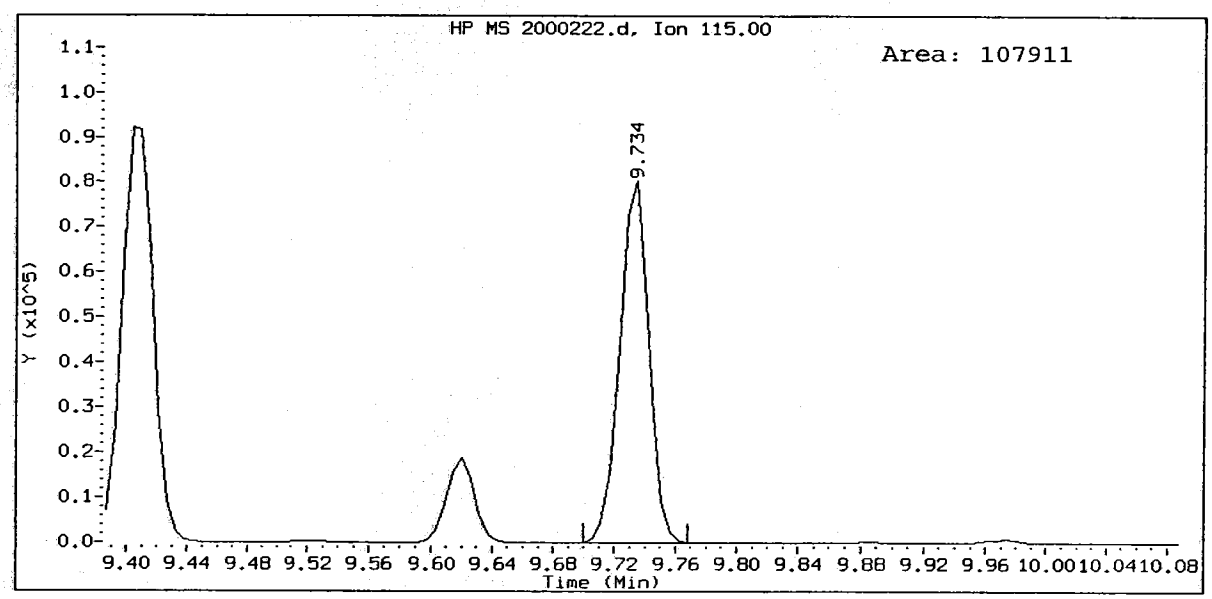
d4-1,2-Dichlorobenzene Amount: 9.60







Analytical Resources, Inc.

8260C

Data file : /chem1/nt10.i/22FEB10.b/4000222a.d
Lab Smp Id: IC400 Client Smp ID: vstd7
Inj Date : 22-FEB-2010 16:11
Operator : ar Inst ID: nt10.i
Smp Info : IC400,10,10,0
Misc Info : 10-
Comment :
Method : /chem1/nt10.i/22FEB10.b/82600122L.m
Meth Date : 23-Feb-2010 15:01 aron Quant Type: ISTD
Cal Date : 22-FEB-2010 15:12 Cal File: 6000222.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	10.00000	Purge Volume (mL)
Sa	10.00000	Sample Amount (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Dichlorodifluoromethane	85	1.380	1.385	(0.262)	383450	40.0000	34.552
2 Chloromethane	50	1.539	1.545	(0.292)	655651	40.0000	39.496
3 Vinyl Chloride	62	1.607	1.613	(0.305)	782341	40.0000	39.638
4 Bromomethane	94	1.886	1.892	(0.358)	691556	40.0000	40.624(M)
5 Chloroethane	64	1.994	2.000	(0.378)	667155	40.0000	43.044
6 Trichlorofluoromethane	101	2.114	2.125	(0.401)	1169273	40.0000	42.146
8 Acrolein	56	2.996	2.996	(0.568)	260382	200.000	204.41
9 112Trichloro122Trifluoroethane	101	2.660	2.666	(0.505)	778208	40.0000	42.036
10 Acetone	43	3.332	3.326	(0.632)	391321	200.000	191.94
11 1,1-Dichloroethene	96	2.603	2.609	(0.494)	973359	40.0000	44.203
12 Bromoethane	108	2.876	2.882	(0.546)	537292	40.0000	39.981
13 Iodomethane	142	2.740	2.740	(0.520)	1144399	40.0000	38.453
14 Methylene Chloride	84	3.246	3.252	(0.616)	787184	40.0000	42.915
15 Acrylonitrile	53	4.089	4.089	(0.775)	110283	40.0000	42.473
16 Methyl tert butyl ether	73	3.554	3.554	(0.674)	1273236	40.0000	39.324(M)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
17 Carbon Disulfide	76	2.609	2.615	(0.495)	3171259	40.0000	43.983
18 Trans-1,2-Dichloroethene	96	3.411	3.411	(0.647)	981133	40.0000	42.404
20 Vinyl Acetate	43	4.282	4.282	(0.812)	811185	40.0000	39.619
21 1,1-Dichloroethane	63	4.020	4.020	(0.763)	1568148	40.0000	41.600
22 2-Butanone	72	4.993	4.994	(0.947)	269664	200.000	205.64
23 2,2-Dichloropropane	77	4.584	4.584	(0.869)	562562	40.0000	37.506
24 Cis-1,2-Dichloroethene	96	4.498	4.498	(0.853)	1043203	40.0000	40.412
* 25 Pentafluorobenzene	168	5.272	5.272	(1.000)	442482	10.0000	
26 Chloroform	83	4.737	4.737	(0.899)	1681710	40.0000	41.875
27 Bromochloromethane	128	4.663	4.663	(0.884)	359922	40.0000	41.048
$ 28 Dibromofluoromethane	111	4.880	4.880	(0.926)	185468	10.0000	10.050(M)
29 1,1,1-Trichloroethane	97	4.885	4.885	(0.927)	1249501	40.0000	39.999
30 1,1-Dichloropropene	75	4.982	4.982	(0.880)	1450548	40.0000	41.197
31 Carbon Tetrachloride	117	4.823	4.823	(0.852)	1056095	40.0000	40.999
$ 32 d4-1,2-Dichloroethane	65	5.289	5.289	(1.003)	158584	10.0000	9.772
33 1,2-Dichloroethane	62	5.341	5.341	(0.944)	849589	40.0000	39.732
34 Benzene	78	5.181	5.181	(0.916)	4071739	40.0000	40.934
* 35 1,4-Difluorobenzene	114	5.659	5.659	(1.000)	709206	10.0000	
36 Trichloroethene	95	5.619	5.620	(0.993)	1129121	40.0000	42.363
37 1,2-Dichloropropane	63	6.006	6.007	(1.061)	890203	40.0000	41.340
38 Bromodichloromethane	83	6.052	6.052	(1.069)	1124616	40.0000	41.296
39 Dibromomethane	93	5.927	5.927	(1.047)	353592	40.0000	41.089
40 2-Chloroethyl Vinyl Ether	63	6.467	6.468	(1.143)	209219	40.0000	40.928
41 4-Methyl-2-Pentanone	58	6.945	6.946	(1.227)	829787	200.000	218.45
42 Cis 1,3-dichloropropene	75	6.502	6.502	(1.149)	1306185	40.0000	43.096
$ 43 d8-Toluene	98	6.632	6.633	(1.172)	867306	10.0000	10.036
44 Toluene	92	6.667	6.667	(1.178)	2830417	40.0000	41.718
45 Trans 1,3-Dichloropropene	75	6.963	6.963	(1.230)	1012392	40.0000	45.427
46 2-Hexanone	43	7.526	7.526	(0.968)	1217806	200.000	203.77
47 1,1,2-Trichloroethane	97	7.076	7.076	(1.250)	539446	40.0000	40.831
48 1,3-Dichloropropane	76	7.264	7.264	(0.934)	970801	40.0000	39.549
49 Tetrachloroethene	166	6.928	6.928	(0.891)	1207784	40.0000	40.565
50 Chlorodibromomethane	129	7.196	7.196	(0.925)	682450	40.0000	41.471
51 1,2-Dibromoethane	107	7.361	7.361	(1.301)	495693	40.0000	42.244
52 d5-Chlorobenzene	117	7.719	7.720	(1.000)	684917	10.0000	(H)
53 Chlorobenzene	112	7.731	7.731	(0.994)	2952023	40.0000	41.009
54 Ethyl Benzene	91	7.754	7.748	(0.997)	5469392	40.0000	40.043
55 1,1,1,2-Tetrachloroethane	131	7.776	7.776	(1.000)	904638	40.0000	41.073
56 m,p-xylene	106	7.856	7.850	(1.010)	4287754	80.0000	83.297
58 o-Xylene	106	8.158	8.158	(1.049)	1906776	40.0000	40.870
59 Styrene	104	8.197	8.198	(1.054)	3025675	40.0000	41.214
60 Isopropyl Benzene	105	8.385	8.380	(0.891)	4980676	40.0000	44.178
61 Bromoform	173	8.215	8.215	(0.873)	305905	40.0000	46.333
62 1,1,2,2-Tetrachloroethane	83	8.738	8.733	(0.929)	391343	40.0000	40.426
63 4-Bromofluorobenzene	95	8.584	8.585	(1.104)	265825	10.0000	9.567
64 1,2,3-Trichloropropane	110	8.835	8.835	(0.939)	123134	40.0000	42.095(M)
65 Trans-1,4-Dichloro 2-Butene	53	8.869	8.863	(0.943)	86818	40.0000	41.297

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)	
66	N-Propyl Benzene	91	8.681	8.681	(0.923)	5554695	40.0000	43.149	
67	Bromobenzene	156	8.664	8.664	(0.921)	938411	40.0000	43.473	
68	1,3,5-Trimethyl Benzene	105	8.823	8.824	(0.938)	3478561	40.0000	41.766	
69	2-Chloro Toluene	91	8.795	8.795	(0.935)	3432140	40.0000	42.446	
70	4-Chloro Toluene	91	8.915	8.915	(0.947)	2984940	40.0000	42.618	
71	T-Butyl Benzene	119	9.057	9.057	(0.962)	2839780	40.0000	40.343	
72	1,2,4-Trimethylbenzene	105	9.108	9.108	(0.968)	3182149	40.0000	40.374	
73	S-Butyl Benzene	105	9.188	9.188	(0.976)	4061790	40.0000	39.251	
74	4-Isopropyl Toluene	119	9.302	9.296	(0.988)	3045628	40.0000	38.599	
75	1,3-Dichlorobenzene	146	9.353	9.353	(0.994)	1452818	40.0000	40.124	
* 76	d4-1,4-Dichlorobenzene	152	9.410	9.410	(1.000)	213572	10.0000		(Q)
77	1,4-Dichlorobenzene	146	9.421	9.421	(1.001)	1373602	40.0000	39.758	
78	N-Butyl Benzene	91	9.620	9.620	(1.022)	2559580	40.0000	37.956	
$ 79	d4-1,2-Dichlorobenzene	152	9.734	9.734	(1.034)	161502	10.0000	9.724	(Q)
80	1,2-Dichlorobenzene	146	9.740	9.740	(1.035)	1044711	40.0000	38.354	
81	1,2-Dibromo 3-Chloropropane	75	10.354	10.355	(1.100)	39407	40.0000	45.626	
82	1,2,4-Trichlorobenzene	180	10.884	10.878	(1.157)	526699	40.0000	39.668	
83	Hexachloro 1,3-Butadiene	225	10.861	10.855	(1.154)	282932	40.0000	35.803	
84	Naphthalene	128	11.140	11.140	(1.184)	693198	40.0000	38.418	
85	1,2,3-Trichlorobenzene	180	11.282	11.282	(1.199)	335261	40.0000	37.245	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
I - Operator selected an alternate compound hit.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: 4000222a.d
Lab Smp Id: IC400
Analysis Type: VOA
Quant Type: ISTD
Operator: ar
Method File: /chem1/nt10.i/22FEB10.b/82600122L.m
Misc Info: 10-

Calibration Date: 22-FEB-2010
Calibration Time: 17:11
Client Smp ID: vstd7
Level: LOW
Sample Type: WATER

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
25 Pentafluorobenzen	456228	228114	912456	442482	-3.01
35 1,4-Difluorobenze	740651	370326	1481302	709206	-4.25
52 d5-Chlorobenzene	686240	343120	1372480	684917	-0.19
76 d4-1,4-Dichlorobe	249963	124982	499926	213572	-14.56

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
25 Pentafluorobenzen	5.27	4.77	5.77	5.27	0.00
35 1,4-Difluorobenze	5.66	5.16	6.16	5.66	0.00
52 d5-Chlorobenzene	7.72	7.22	8.22	7.72	0.00
76 d4-1,4-Dichlorobe	9.41	8.91	9.91	9.41	0.00

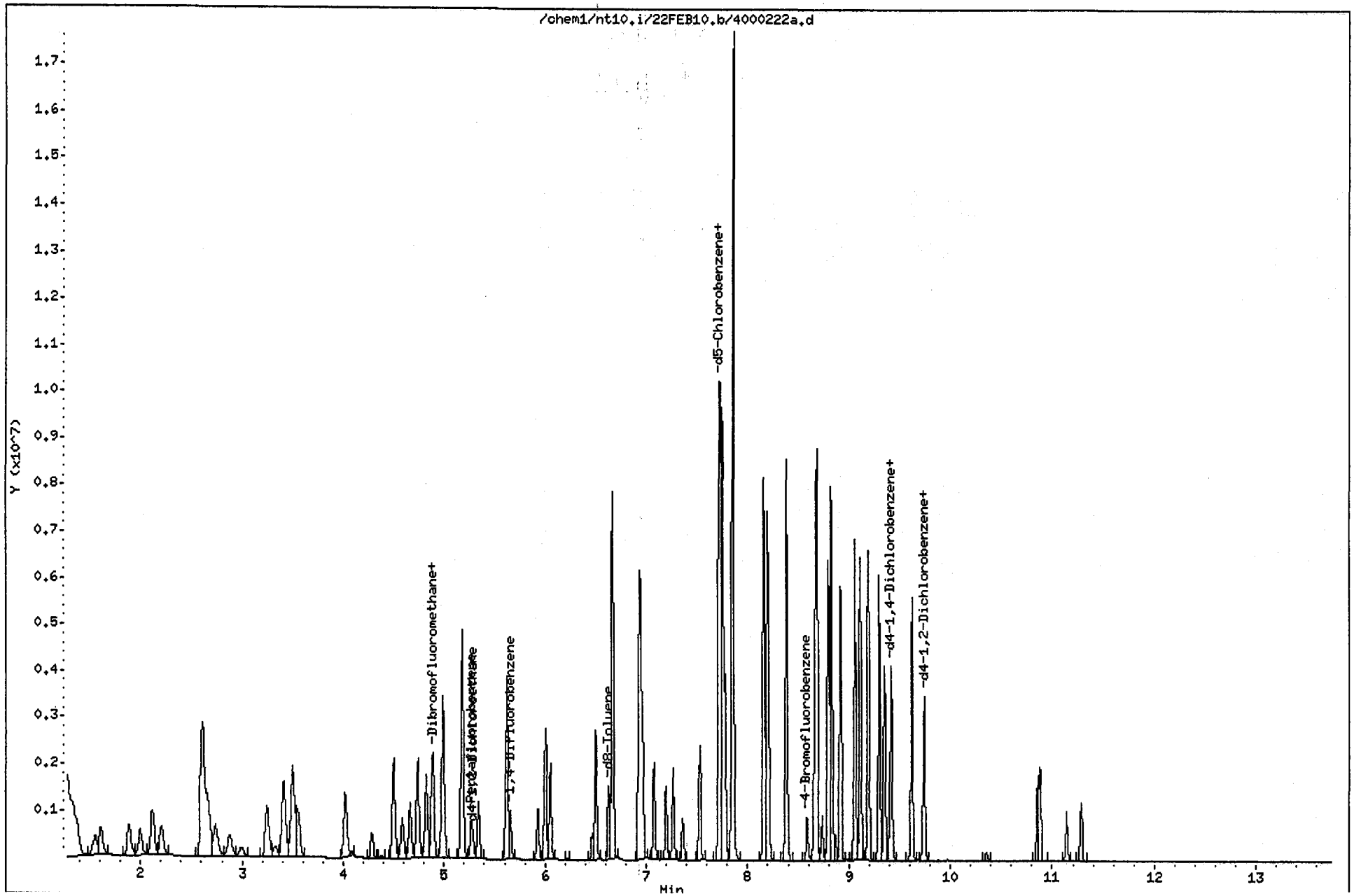
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem1/nt10.i/22FEB10.b/4000222a.d
Date : 22-FEB-2010 16:11
Client ID: vstd7
Sample Info: IC400,10,10,0

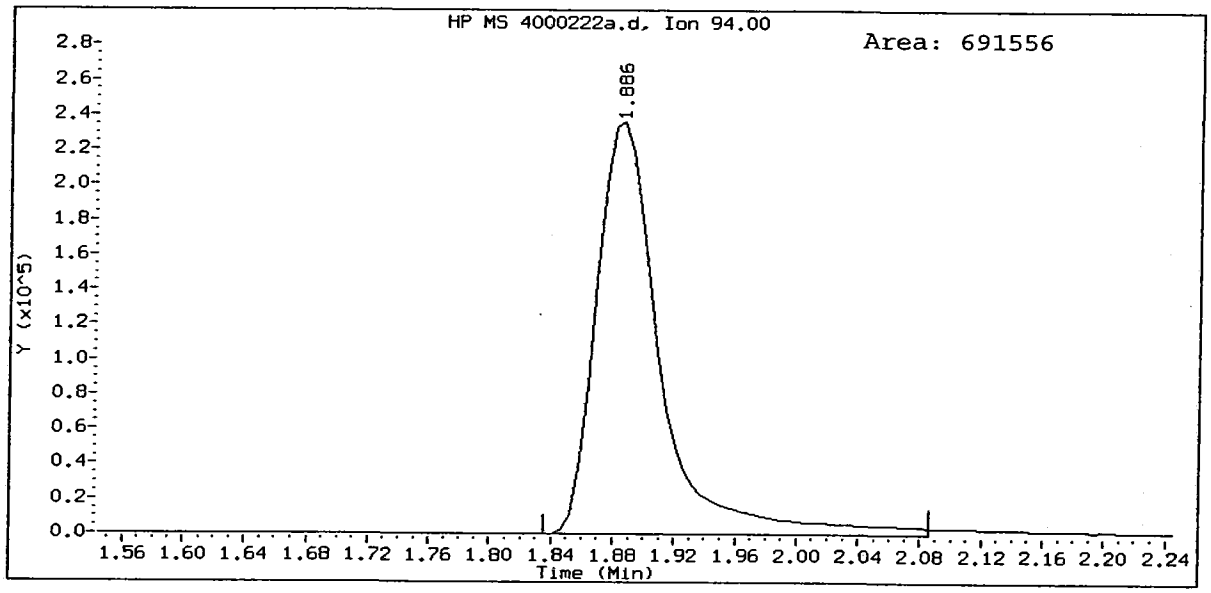
Column phase: RTX502.2

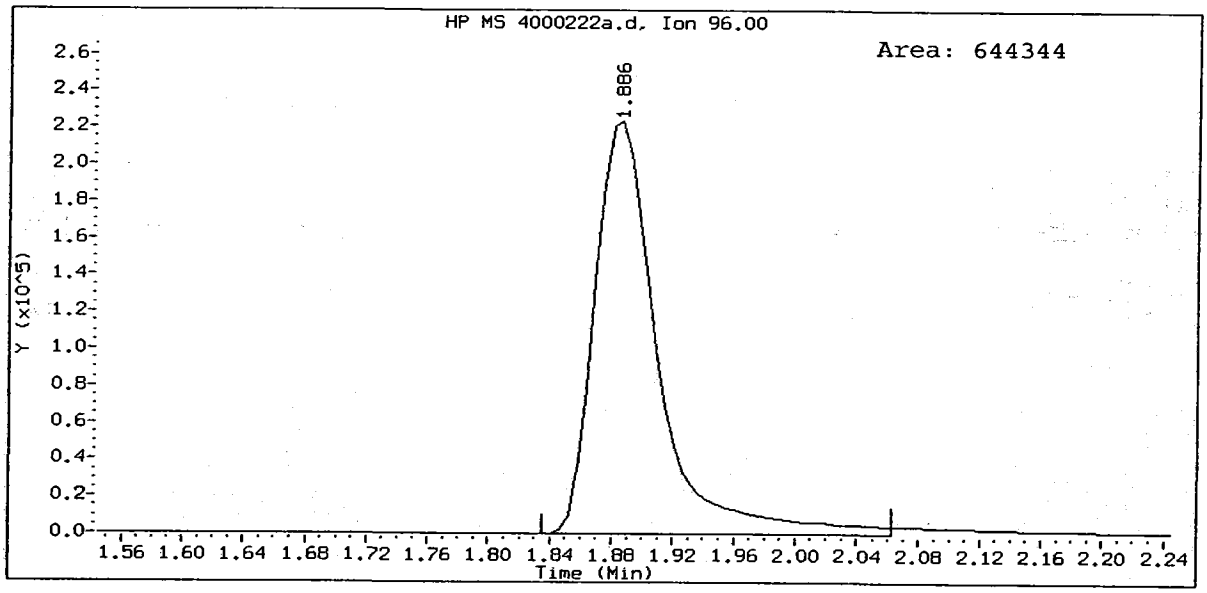
Instrument: nt10.i

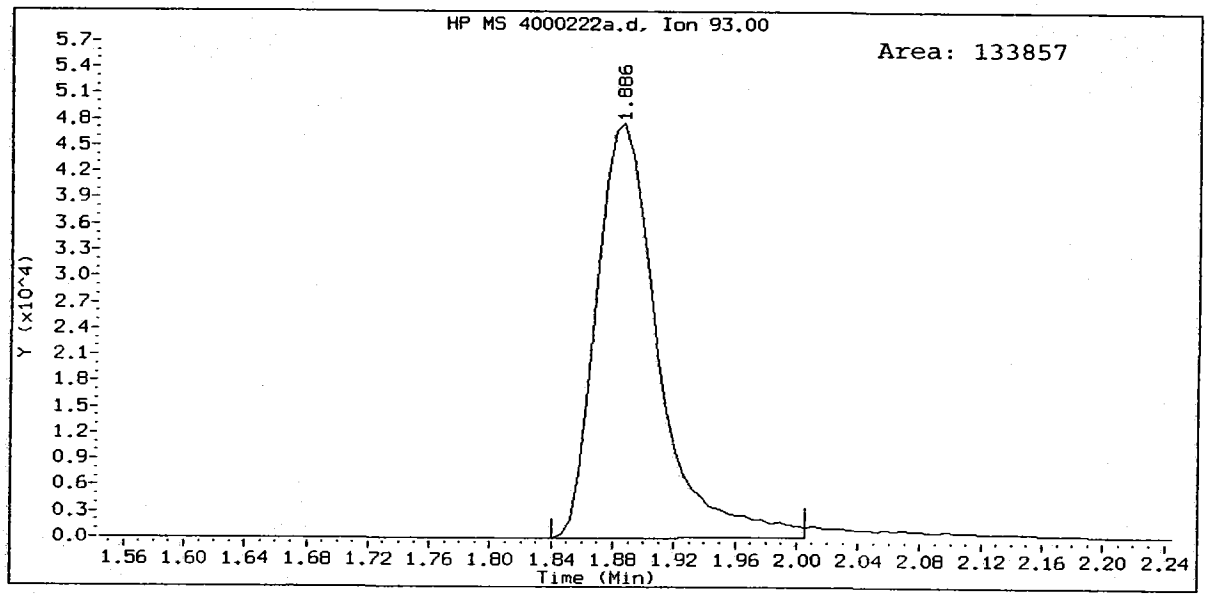
Operator: ar
Column diameter: 0.18



IC400, /chem1/nt10.i/22FEB10.b/4000222a.d
Bromomethane Amount: 40.62







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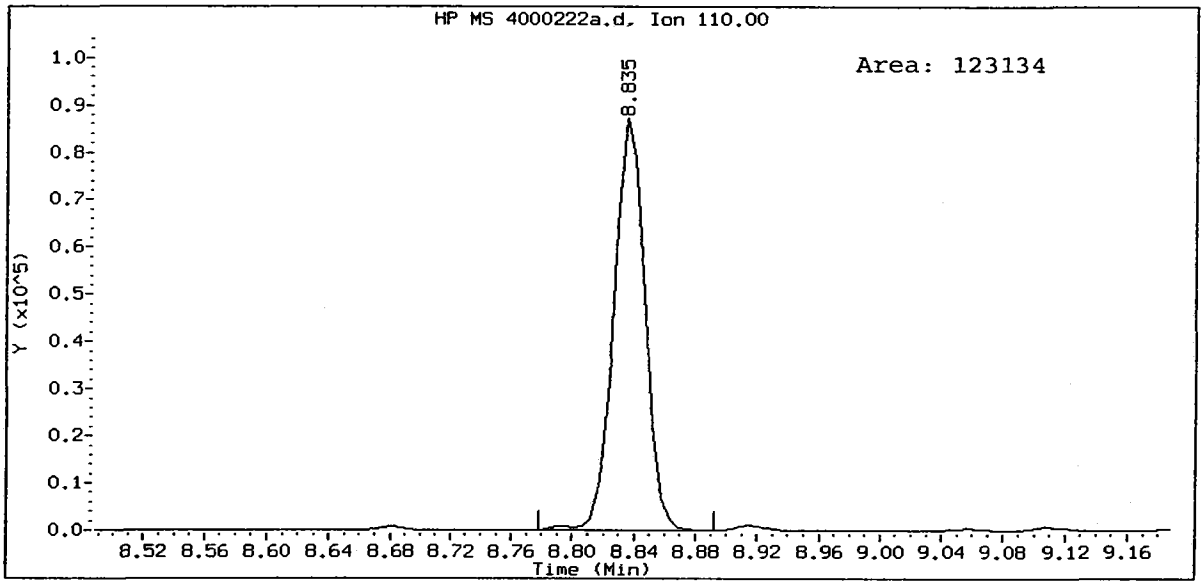
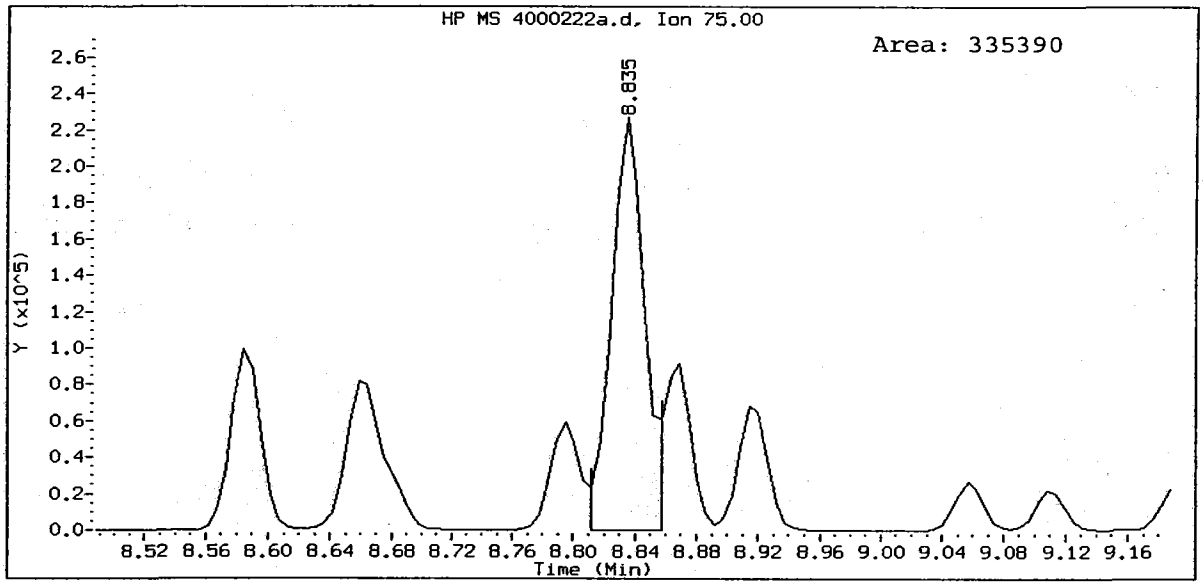
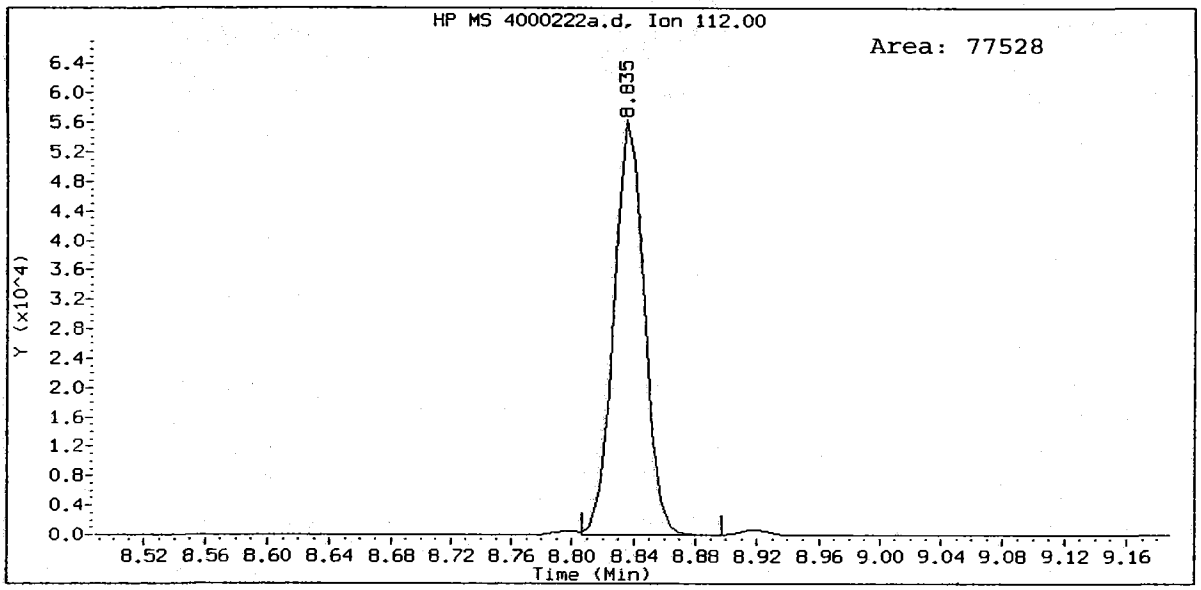
1,2,3-Trichloropropane Amount: 42.10







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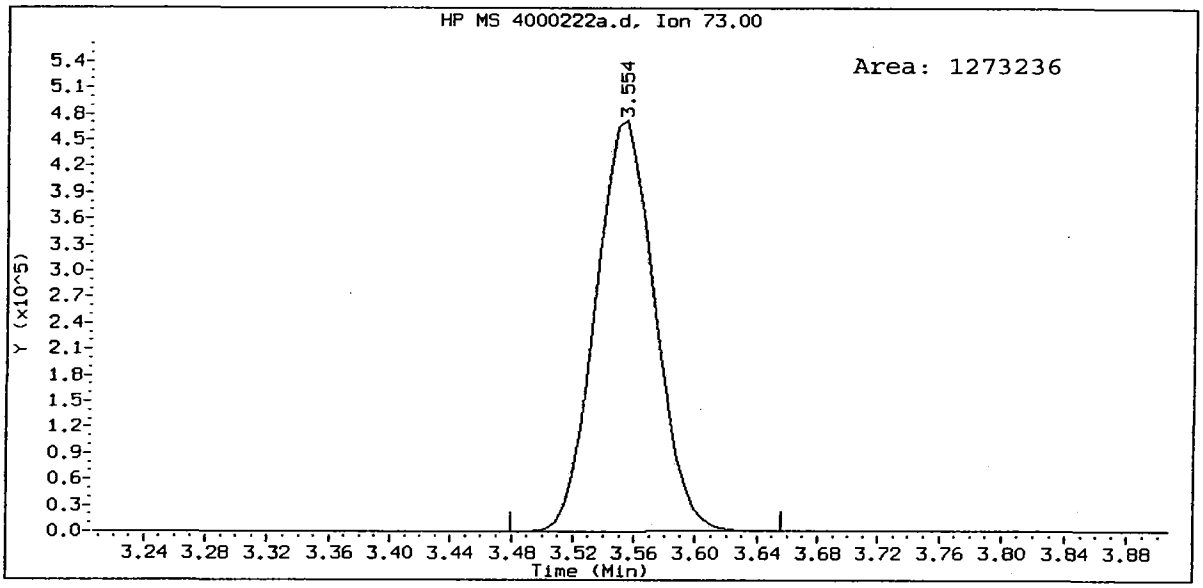
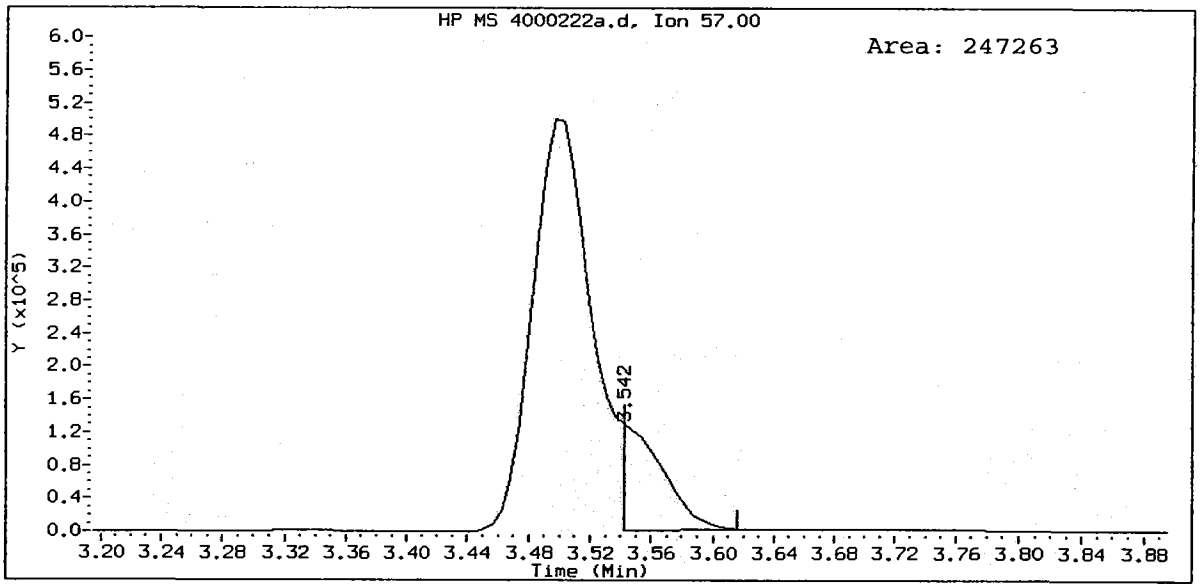
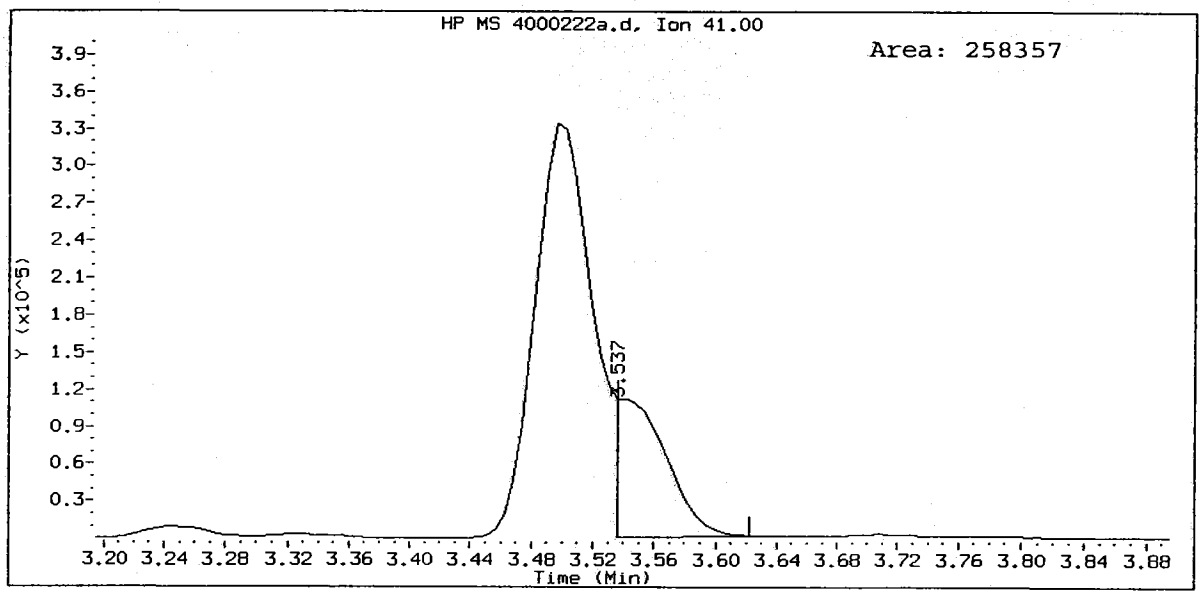
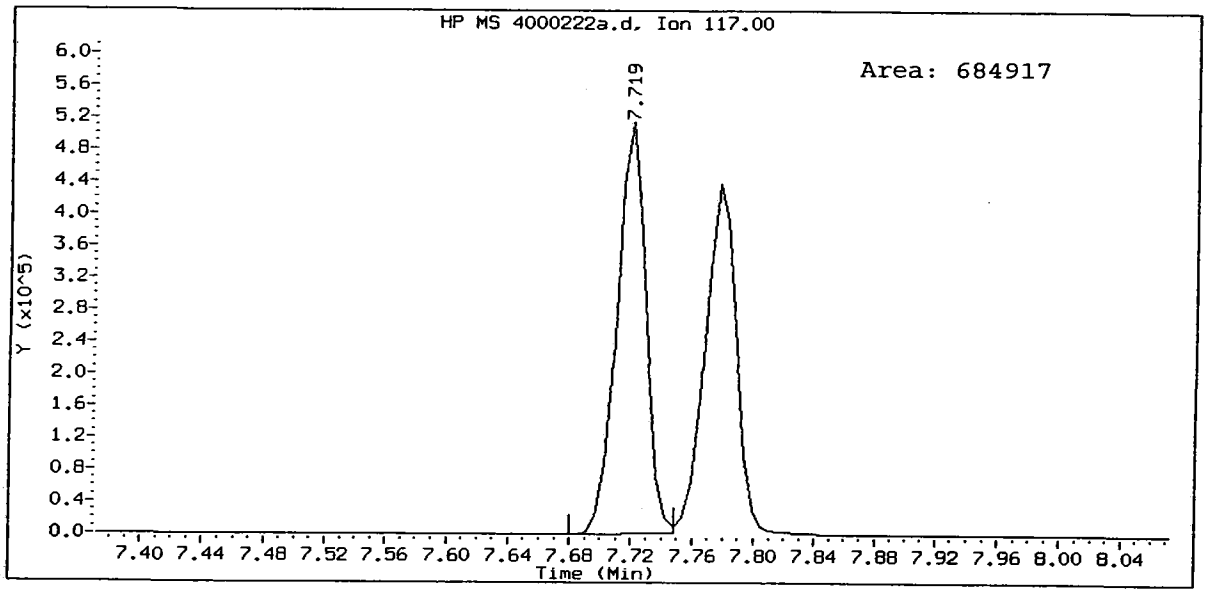
Methyl tert butyl ether Amount: 39.32

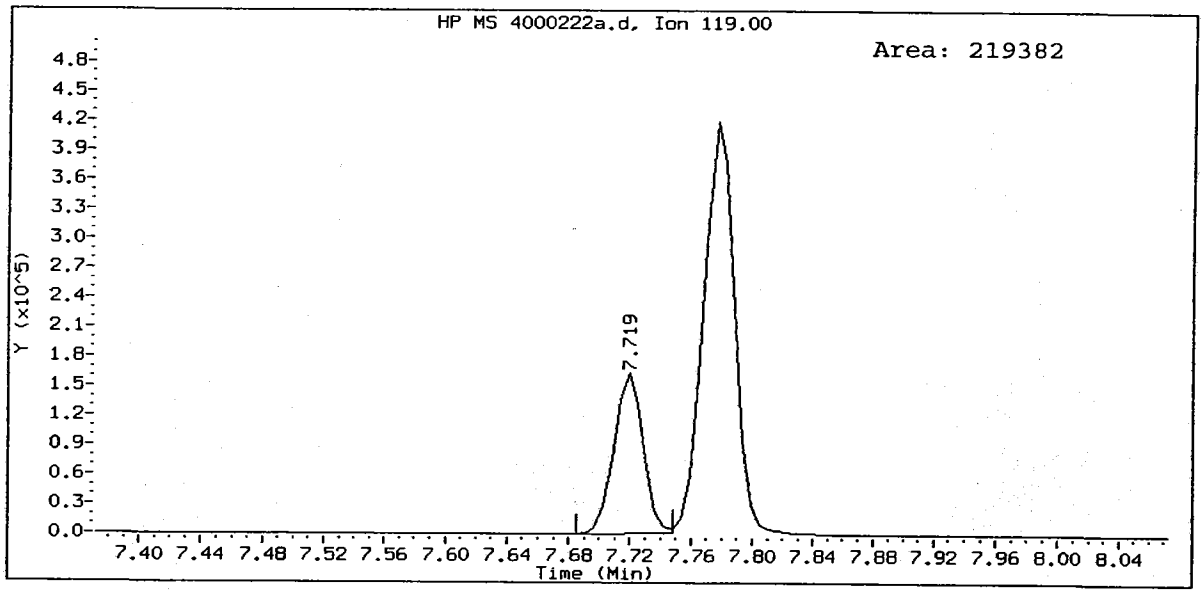


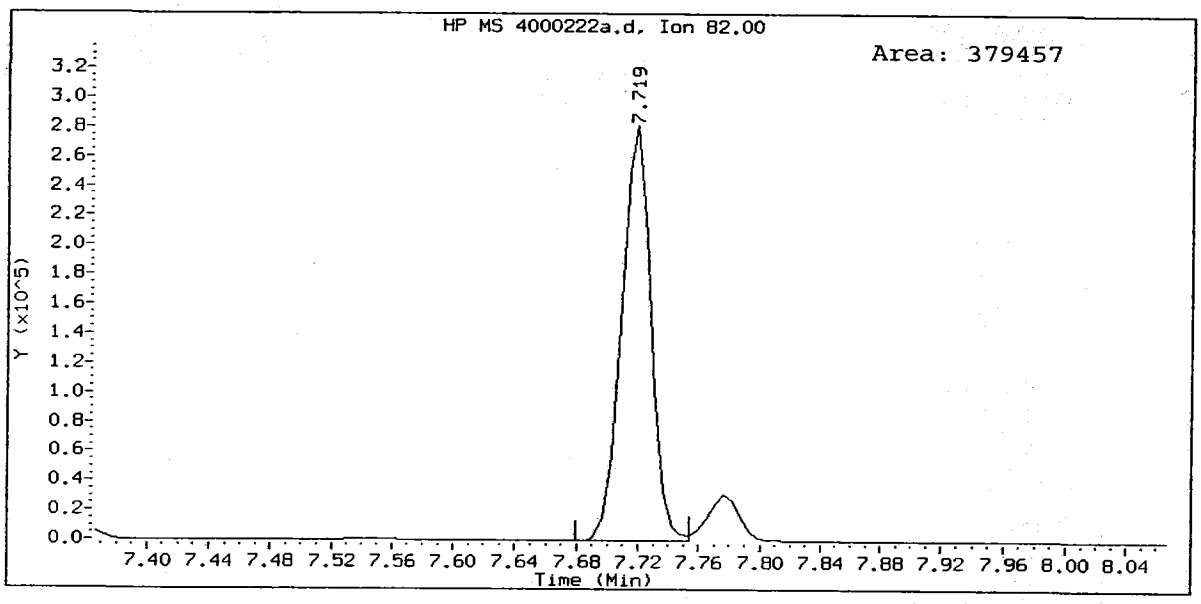




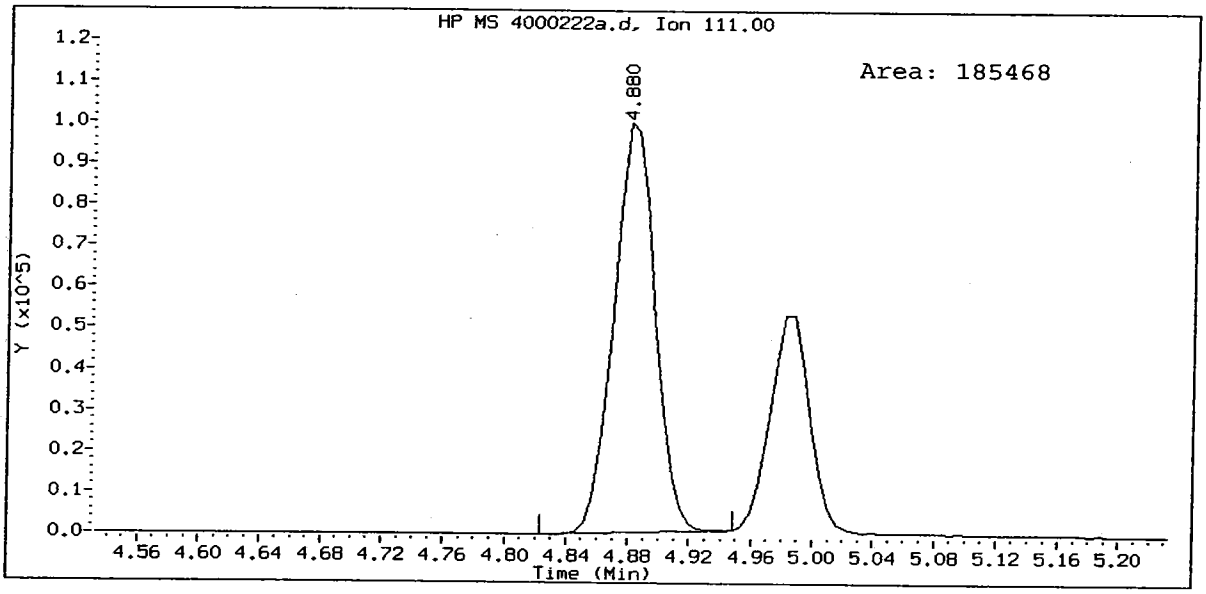
IC400, /chem1/nt10.i/22FEB10.b/4000222a.d
d5-Chlorobenzene Amount: 10.00

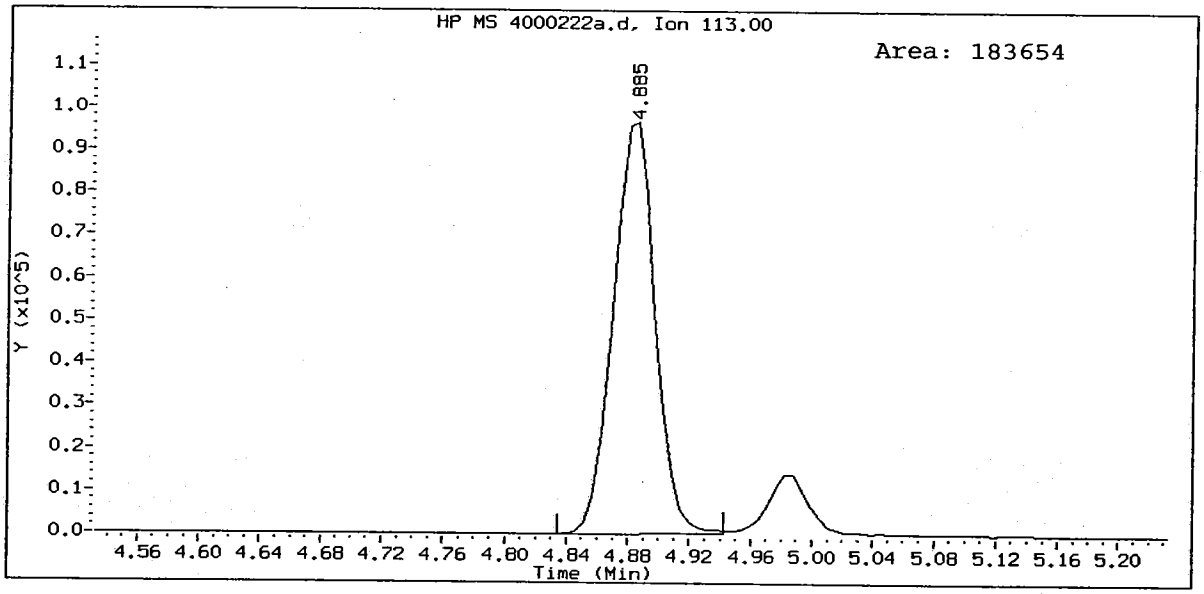


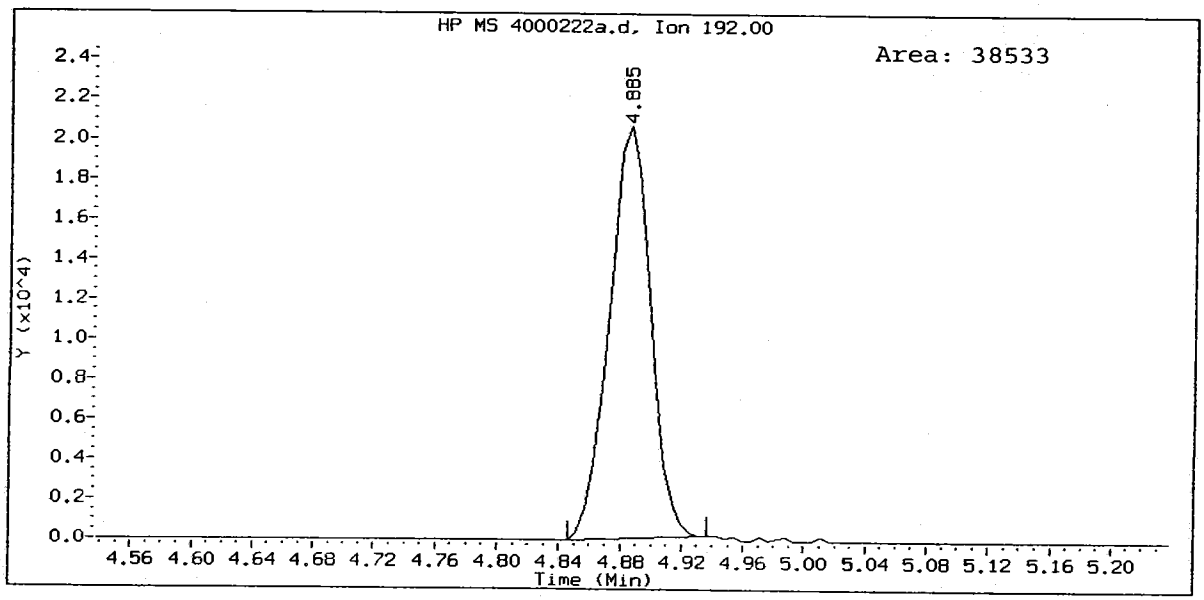




IC400, /chem1/nt10.i/22FEB10.b/4000222a.d
Dibromofluoromethane Amount: 10.05







Analytical Resources, Inc.

8260C

Data file : /chem1/nt10.i/22FEB10.b/6000222.d
Lab Smp Id: IC600 Client Smp ID: vstd8
Inj Date : 22-FEB-2010 15:12
Operator : ar Inst ID: nt10.i
Smp Info : IC600,10,10,0
Misc Info : 10-
Comment :
Method : /chem1/nt10.i/22FEB10.b/82600122L.m
Meth Date : 23-Feb-2010 15:01 aron Quant Type: ISTD
Cal Date : 22-FEB-2010 15:12 Cal File: 6000222.d
Als bottle: 1 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	10.00000	Purge Volume (mL)
Sa	10.00000	Sample Amount (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Dichlorodifluoromethane	85	1.380	1.385	(0.262)	635834	60.0000	54.743
2 Chloromethane	50	1.539	1.545	(0.292)	923817	60.0000	53.172(M)
3 Vinyl Chloride	62	1.607	1.613	(0.305)	1186000	60.0000	57.414
4 Bromomethane	94	1.886	1.892	(0.358)	1060997	60.0000	59.551(M)
5 Chloroethane	64	1.994	2.000	(0.378)	930217	60.0000	57.344
6 Trichlorofluoromethane	101	2.108	2.125	(0.400)	1733338	60.0000	59.697
8 Acrolein	56	2.990	2.996	(0.567)	420726	300.000	315.58
9 112Trichloro122Trifluoroethane	101	2.660	2.666	(0.505)	1107938	60.0000	57.182
10 Acetone	43	3.332	3.326	(0.632)	615171	300.000	288.30
11 1,1-Dichloroethene	96	2.603	2.609	(0.494)	1343235	60.0000	58.285
12 Bromoethane	108	2.876	2.882	(0.546)	826185	60.0000	58.741
13 Iodomethane	142	2.740	2.740	(0.520)	1559703	60.0000	50.075
14 Methylene Chloride	84	3.246	3.252	(0.616)	1156394	60.0000	60.237
15 Acrylonitrile	53	4.089	4.089	(0.775)	177453	60.0000	65.300
16 Methyl tert butyl ether	73	3.554	3.554	(0.674)	1898482	60.0000	56.025(M)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
17 Carbon Disulfide	76	2.609	2.615	(0.495)	4622704	60.0000	61.259
18 Trans-1,2-Dichloroethene	96	3.411	3.411	(0.647)	1454788	60.0000	60.076
20 Vinyl Acetate	43	4.282	4.282	(0.812)	1336213	60.0000	62.356
21 1,1-Dichloroethane	63	4.020	4.020	(0.763)	2455030	60.0000	62.228
22 2-Butanone	72	4.994	4.994	(0.947)	445840	300.000	324.85
23 2,2-Dichloropropane	77	4.584	4.584	(0.869)	928906	60.0000	59.174
24 Cis-1,2-Dichloroethene	96	4.498	4.498	(0.853)	1567259	60.0000	58.010
* 25 Pentafluorobenzene	168	5.272	5.272	(1.000)	463099	10.0000	
26 Chloroform	83	4.737	4.737	(0.899)	2529982	60.0000	60.193
27 Bromochloromethane	128	4.663	4.663	(0.884)	581103	60.0000	63.323
$ 28 Dibromofluoromethane	111	4.885	4.880	(0.927)	197613	10.0000	10.232
29 1,1,1-Trichloroethane	97	4.885	4.885	(0.927)	2005649	60.0000	61.347
30 1,1-Dichloropropene	75	4.982	4.982	(0.880)	2265517	60.0000	60.863
31 Carbon Tetrachloride	117	4.823	4.823	(0.852)	1692507	60.0000	62.151
$ 32 d4-1,2-Dichloroethane	65	5.289	5.289	(1.003)	169646	10.0000	9.988
33 1,2-Dichloroethane	62	5.341	5.341	(0.944)	1351266	60.0000	59.775
34 Benzene	78	5.181	5.181	(0.916)	6289100	60.0000	59.805
* 35 1,4-Difluorobenzene	114	5.659	5.659	(1.000)	749765	10.0000	
36 Trichloroethene	95	5.620	5.620	(0.993)	1787480	60.0000	63.436
37 1,2-Dichloropropane	63	6.007	6.007	(1.061)	1398245	60.0000	61.420
38 Bromodichloromethane	83	6.052	6.052	(1.069)	1827525	60.0000	63.476
39 Dibromomethane	93	5.927	5.927	(1.047)	578601	60.0000	63.599
40 2-Chloroethyl Vinyl Ether	63	6.467	6.468	(1.143)	336108	60.0000	62.194
41 4-Methyl-2-Pentanone	58	6.946	6.946	(1.227)	1383493	300.000	344.52
42 Cis 1,3-dichloropropene	75	6.502	6.502	(1.149)	2142390	60.0000	66.862
43 d8-Toluene	98	6.633	6.633	(1.172)	911174	10.0000	9.974
44 Toluene	92	6.667	6.667	(1.178)	4430806	60.0000	61.773
45 Trans 1,3-Dichloropropene	75	6.963	6.963	(1.230)	1676225	60.0000	71.145
46 2-Hexanone	43	7.526	7.526	(0.968)	1990538	300.000	308.78
47 1,1,2-Trichloroethane	97	7.076	7.076	(1.250)	872040	60.0000	62.435
48 1,3-Dichloropropane	76	7.264	7.264	(0.934)	1572660	60.0000	59.394
49 Tetrachloroethene	166	6.928	6.928	(0.891)	1915963	60.0000	59.656
50 Chlorodibromomethane	129	7.196	7.196	(0.925)	1107546	60.0000	62.395
51 1,2-Dibromoethane	107	7.361	7.361	(1.301)	807675	60.0000	65.108
52 d5-Chlorobenzene	117	7.720	7.720	(1.000)	738803	10.0000	(H)
53 Chlorobenzene	112	7.731	7.731	(0.994)	4638988	60.0000	59.743
54 Ethyl Benzene	91	7.754	7.748	(0.997)	8216191	60.0000	55.765
55 1,1,1,2-Tetrachloroethane	131	7.776	7.776	(1.000)	1399315	60.0000	58.899
56 m,p-xylene	106	7.856	7.850	(1.010)	6465512	120.000	116.44 (Q)
58 o-Xylene	106	8.158	8.158	(1.049)	2880520	60.0000	57.239
59 Styrene	104	8.198	8.198	(1.054)	4596335	60.0000	58.043
60 Isopropyl Benzene	105	8.385	8.380	(0.891)	6985734	60.0000	61.456
61 Bromoform	173	8.215	8.215	(0.873)	485388	60.0000	72.917
62 1,1,2,2-Tetrachloroethane	83	8.738	8.733	(0.929)	595994	60.0000	61.063
63 4-Bromofluorobenzene	95	8.585	8.585	(1.104)	266582	10.0000	8.894
64 1,2,3-Trichloropropane	110	8.835	8.835	(0.939)	183658	60.0000	62.273 (Q)
65 Trans-1,4-Dichloro 2-Butene	53	8.869	8.863	(0.943)	141538	60.0000	59.576 (QH)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
66	N-Propyl Benzene	91	8.681	8.681	(0.923)	7692432	60.0000	59.266
67	Bromobenzene	156	8.664	8.664	(0.921)	1405688	60.0000	64.587
68	1,3,5-Trimethyl Benzene	105	8.824	8.824	(0.938)	4652407	60.0000	55.403
69	2-Chloro Toluene	91	8.795	8.795	(0.935)	4861647	60.0000	59.633
70	4-Chloro Toluene	91	8.920	8.915	(0.948)	4260052	60.0000	60.326
71	T-Butyl Benzene	119	9.057	9.057	(0.962)	3766210	60.0000	53.067
72	1,2,4-Trimethylbenzene	105	9.108	9.108	(0.968)	4315720	60.0000	54.309(H)
73	S-Butyl Benzene	105	9.188	9.188	(0.976)	5410698	60.0000	51.858
74	4-Isopropyl Toluene	119	9.302	9.296	(0.988)	4146573	60.0000	52.121
75	1,3-Dichlorobenzene	146	9.353	9.353	(0.994)	2113387	60.0000	57.889
* 76	d4-1,4-Dichlorobenzene	152	9.410	9.410	(1.000)	215334	10.0000	(Q)
77	1,4-Dichlorobenzene	146	9.421	9.421	(1.001)	2018512	60.0000	57.946
78	N-Butyl Benzene	91	9.620	9.620	(1.022)	3711454	60.0000	54.587
$ 79	d4-1,2-Dichlorobenzene	152	9.734	9.734	(1.034)	167885	10.0000	10.025(Q)
80	1,2-Dichlorobenzene	146	9.740	9.740	(1.035)	1589455	60.0000	57.876
81	1,2-Dibromo 3-Chloropropane	75	10.354	10.355	(1.100)	63478	60.0000	72.894
82	1,2,4-Trichlorobenzene	180	10.884	10.878	(1.157)	831738	60.0000	62.129
83	Hexachloro 1,3-Butadiene	225	10.855	10.855	(1.154)	432011	60.0000	54.220
84	Naphthalene	128	11.140	11.140	(1.184)	1087519	60.0000	59.779
85	1,2,3-Trichlorobenzene	180	11.282	11.282	(1.199)	522899	60.0000	57.615

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: 6000222.d
Lab Smp Id: IC600
Analysis Type: VOA
Quant Type: ISTD
Operator: ar
Method File: /chem1/nt10.i/22FEB10.b/82600122L.m
Misc Info: 10-

Calibration Date: 22-FEB-2010
Calibration Time: 17:11
Client Smp ID: vstd8
Level: LOW
Sample Type: WATER

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
25 Pentafluorobenzen	456228	228114	912456	463099	1.51
35 1,4-Difluorobenze	740651	370326	1481302	749765	1.23
52 d5-Chlorobenzene	686240	343120	1372480	738803	7.66
76 d4-1,4-Dichlorobe	249963	124982	499926	215334	-13.85

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
25 Pentafluorobenzen	5.27	4.77	5.77	5.27	0.00
35 1,4-Difluorobenze	5.66	5.16	6.16	5.66	0.00
52 d5-Chlorobenzene	7.72	7.22	8.22	7.72	0.00
76 d4-1,4-Dichlorobe	9.41	8.91	9.91	9.41	0.00

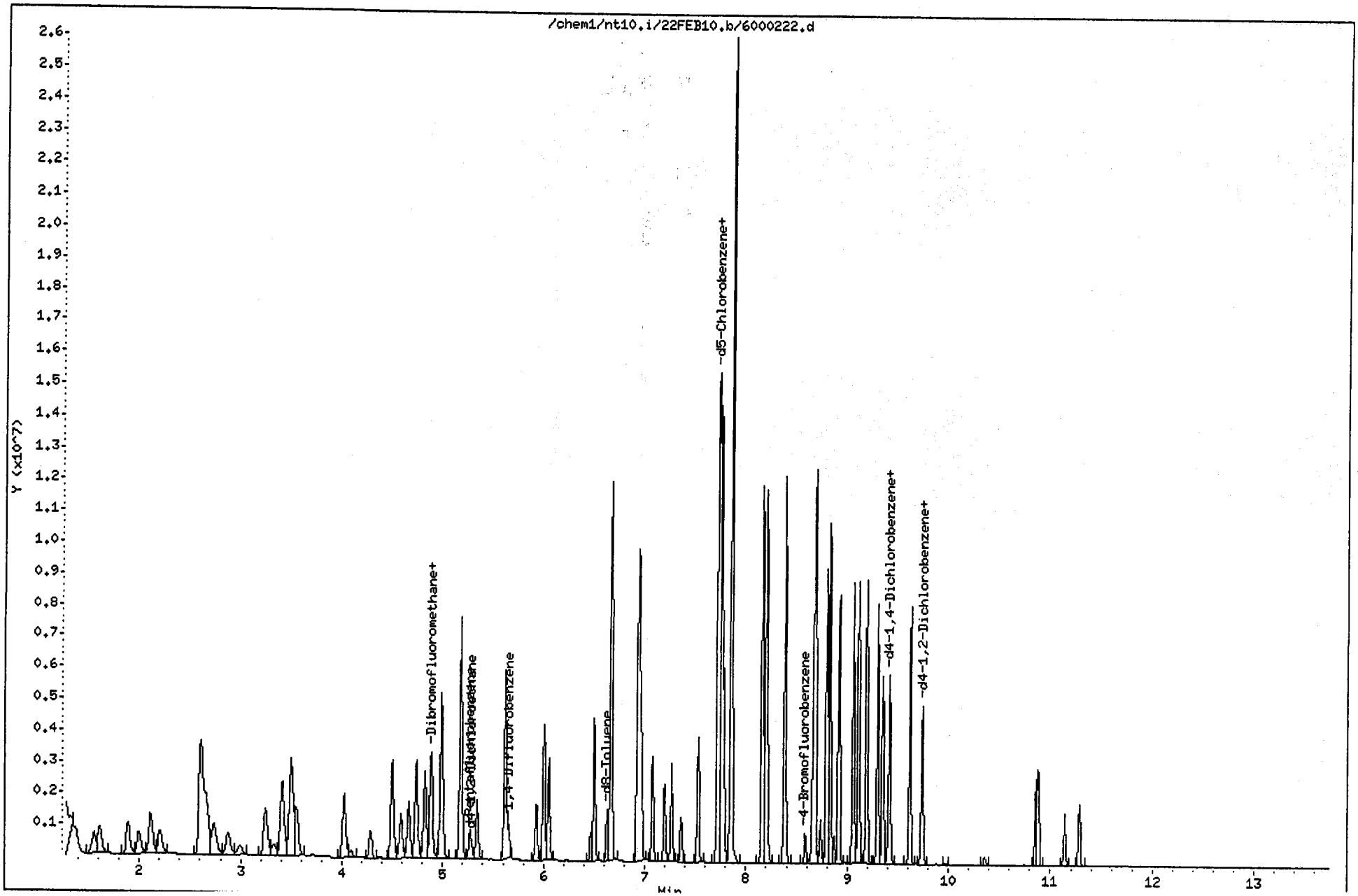
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem1/nt10.i/22FEB10.b/6000222.d
Date : 22-FEB-2010 15:12
Client ID: vstd8
Sample Info: IC600,10,10,0

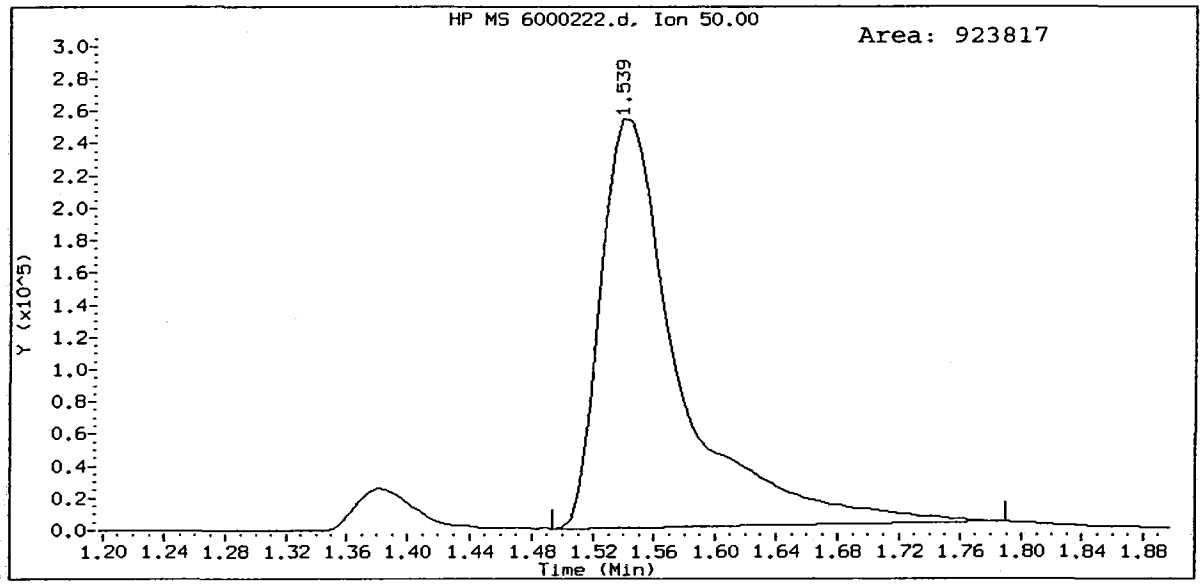
Column phase: RTX502.2

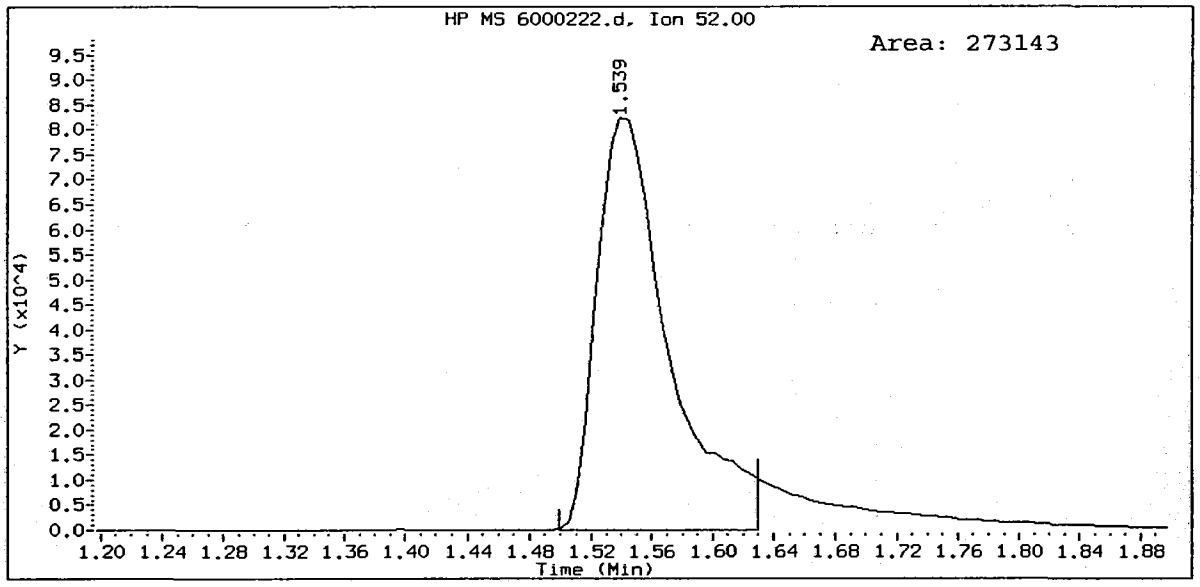
Instrument: nt10.i

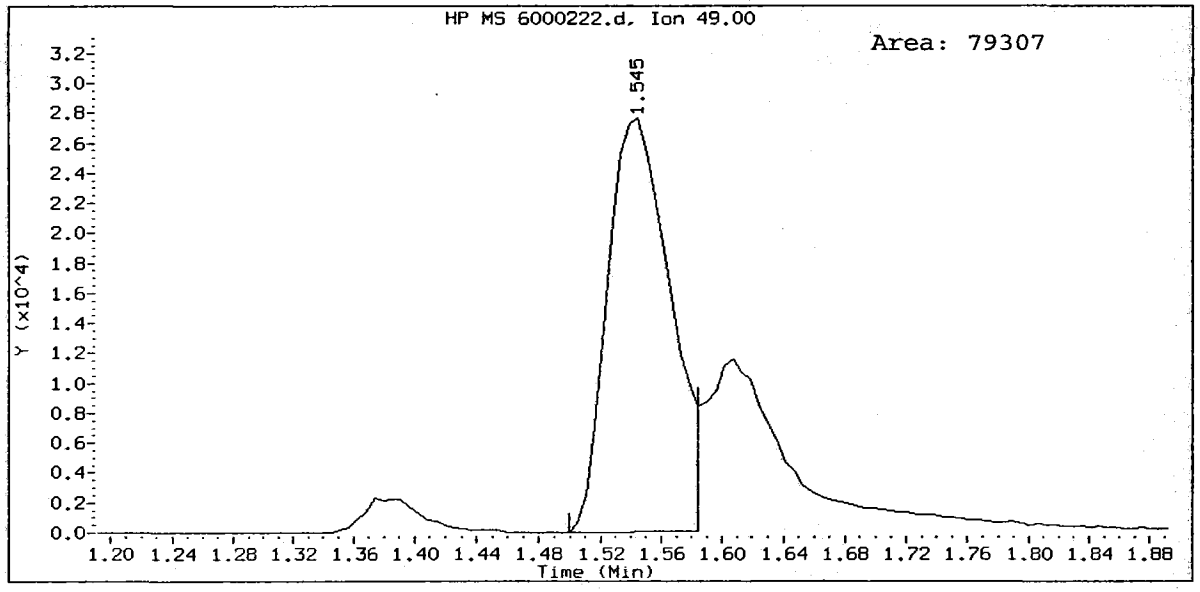
Operator: ar
Column diameter: 0.18



IC600, /chem1/nt10.i/22FEB10.b/6000222.d
Chloromethane Amount: 53.17







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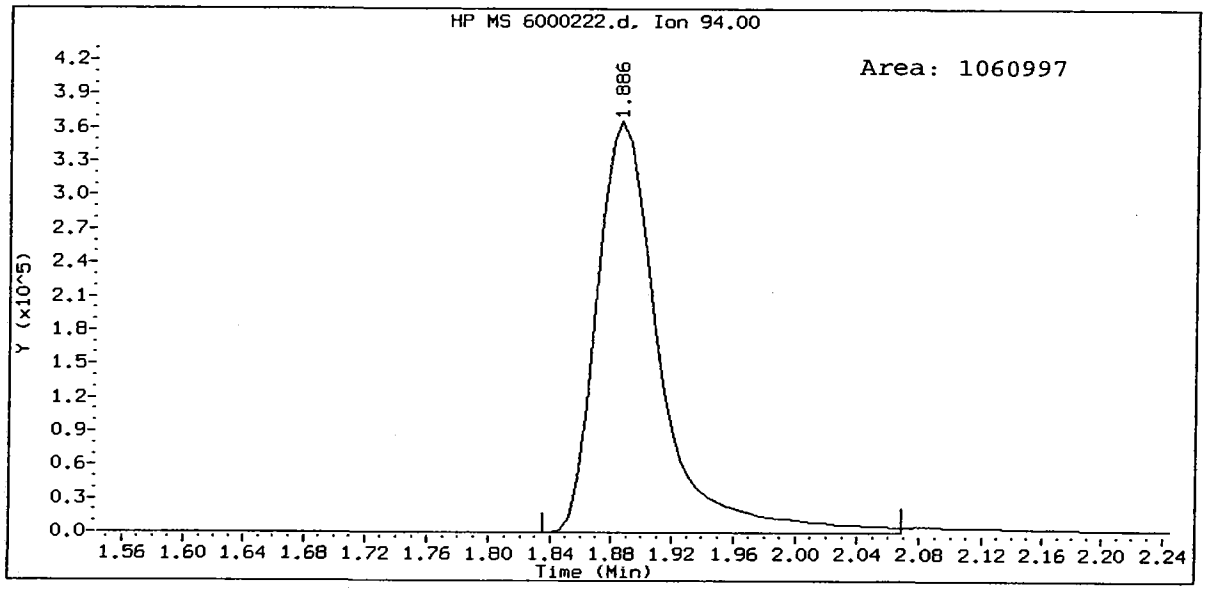
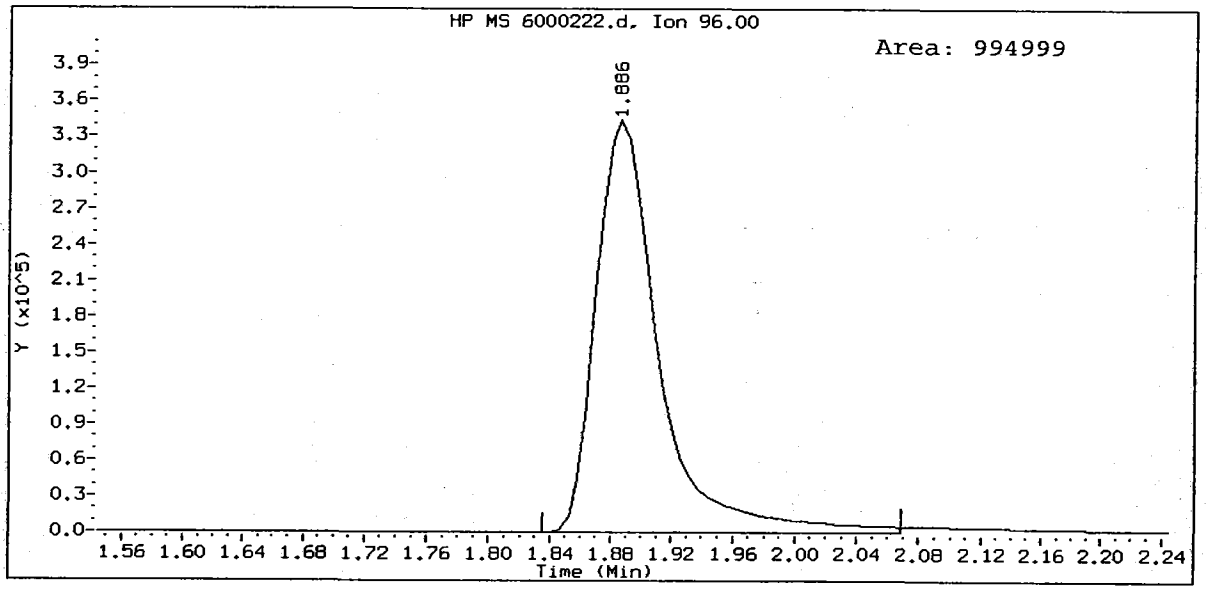
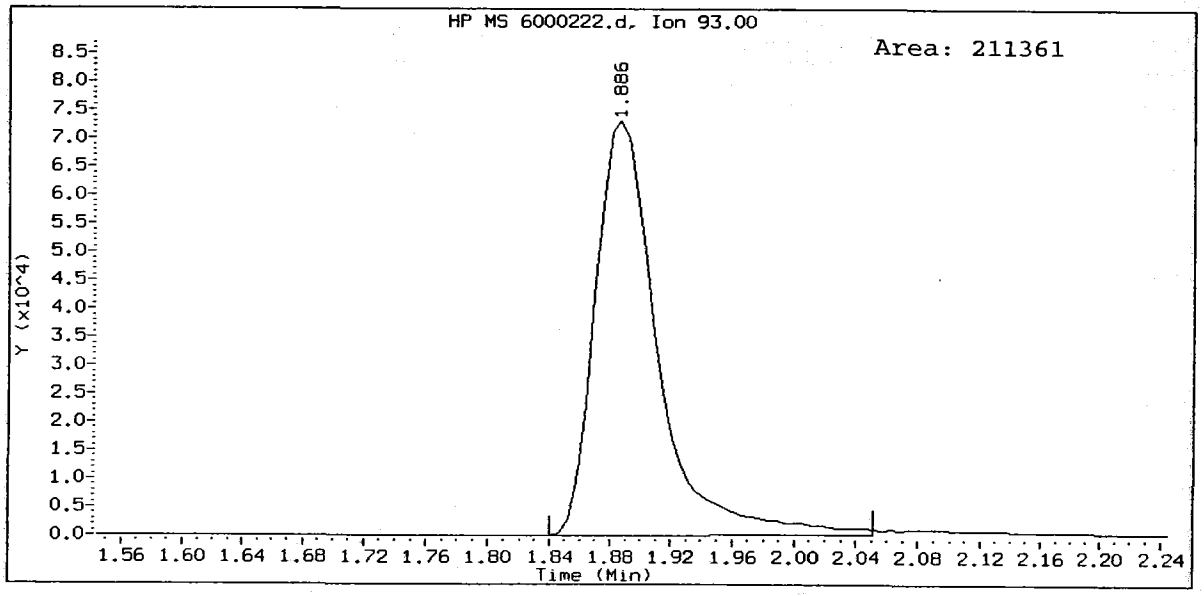
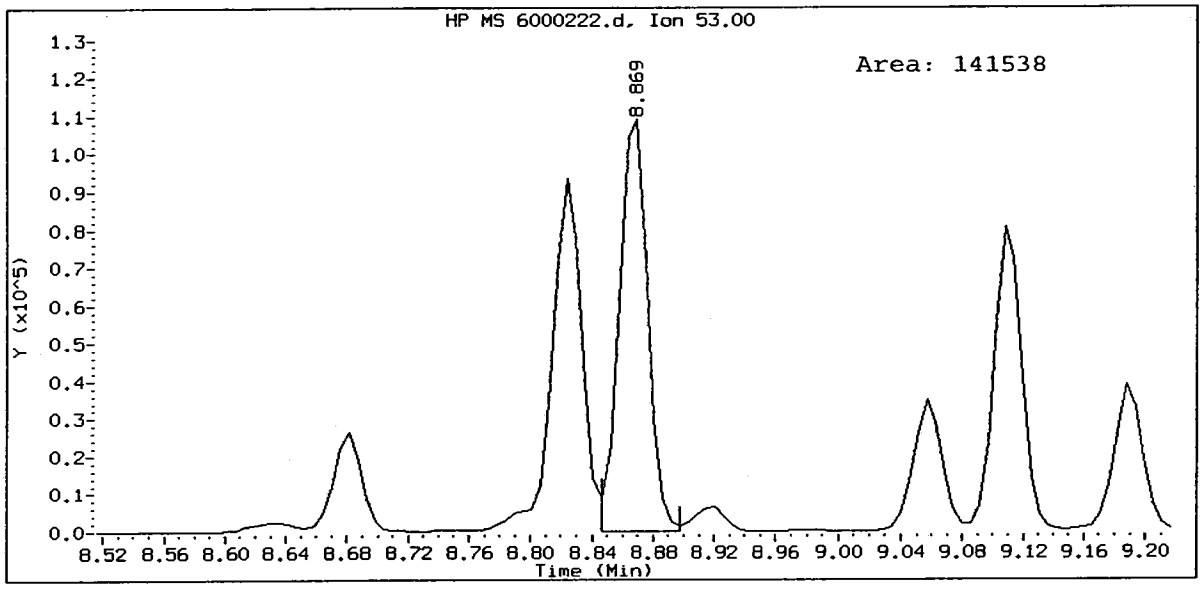
Bromomethane Amount: 59.55

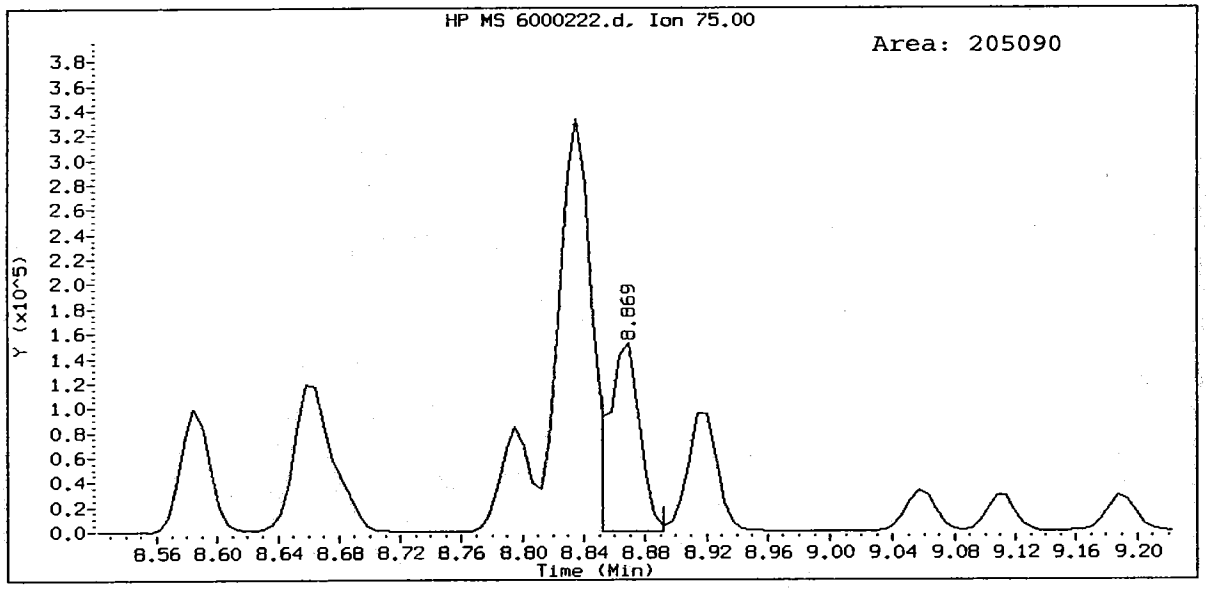


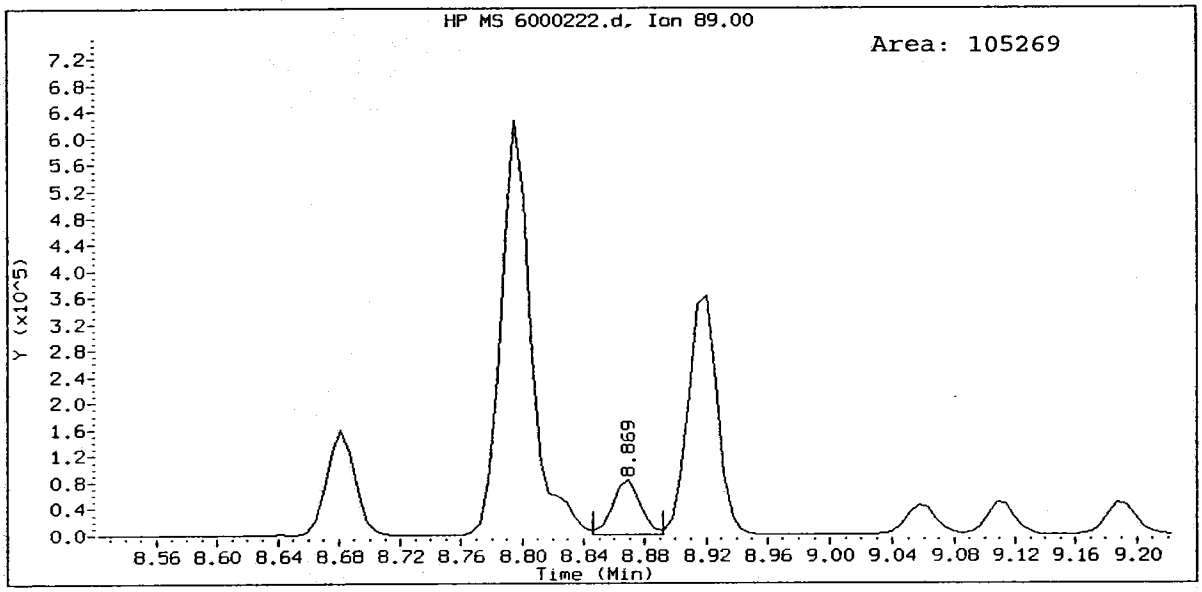




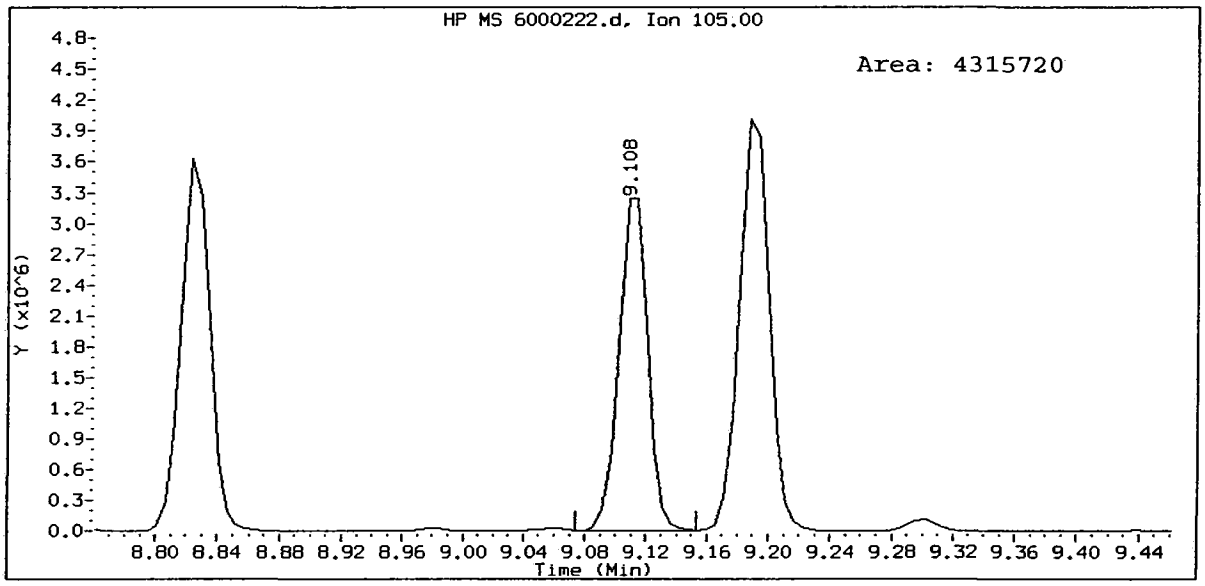
IC600, /chem1/nt10.i/22FEB10.b/6000222.d
Trans-1,4-Dichloro 2-Butene Amount: 59.58

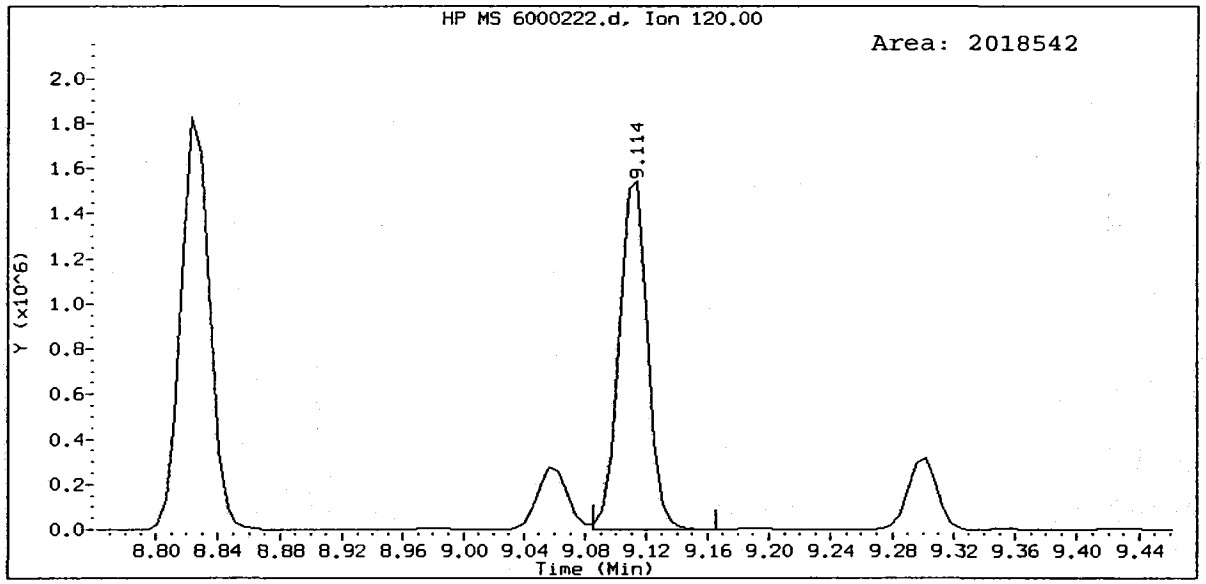


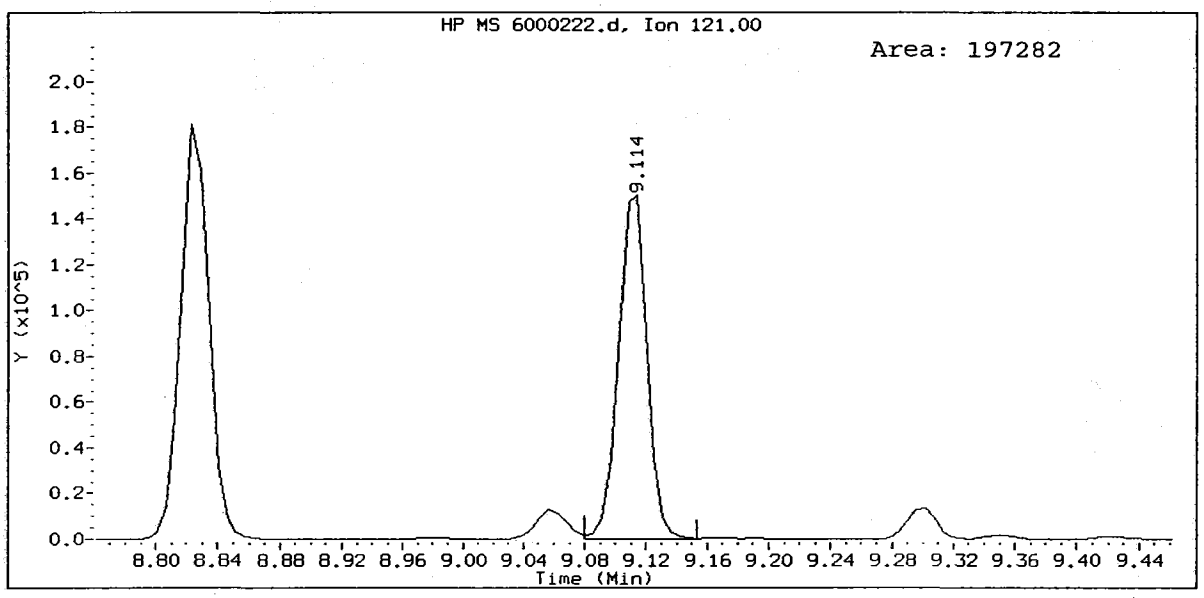




IC600, /chem1/nt10.i/22FEB10.b/6000222.d
1,2,4-Trimethylbenzene Amount: 54.31







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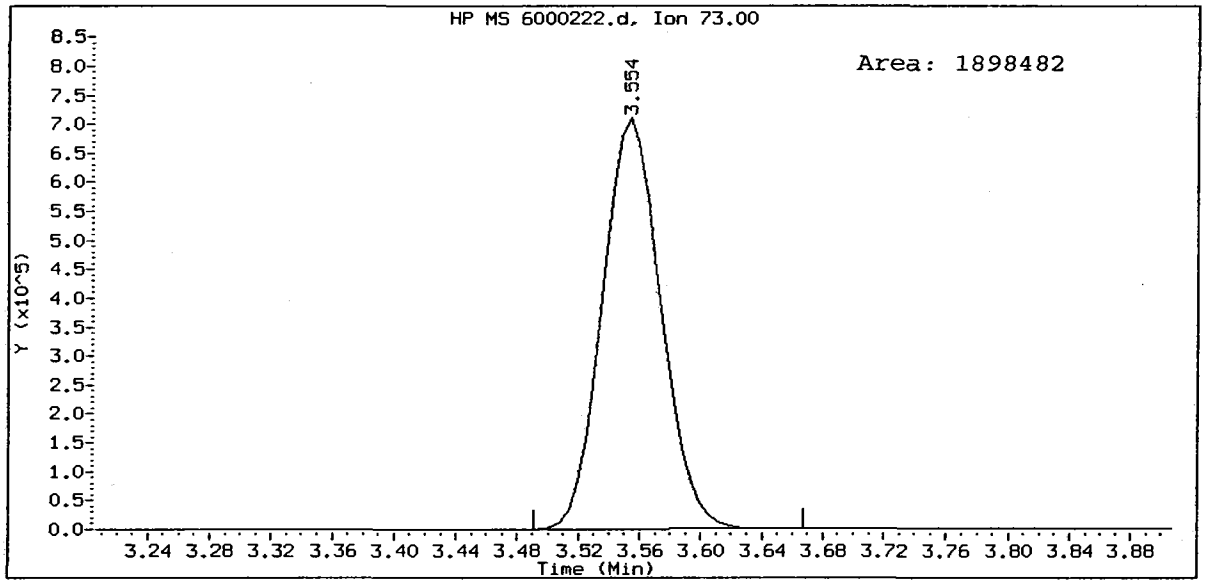
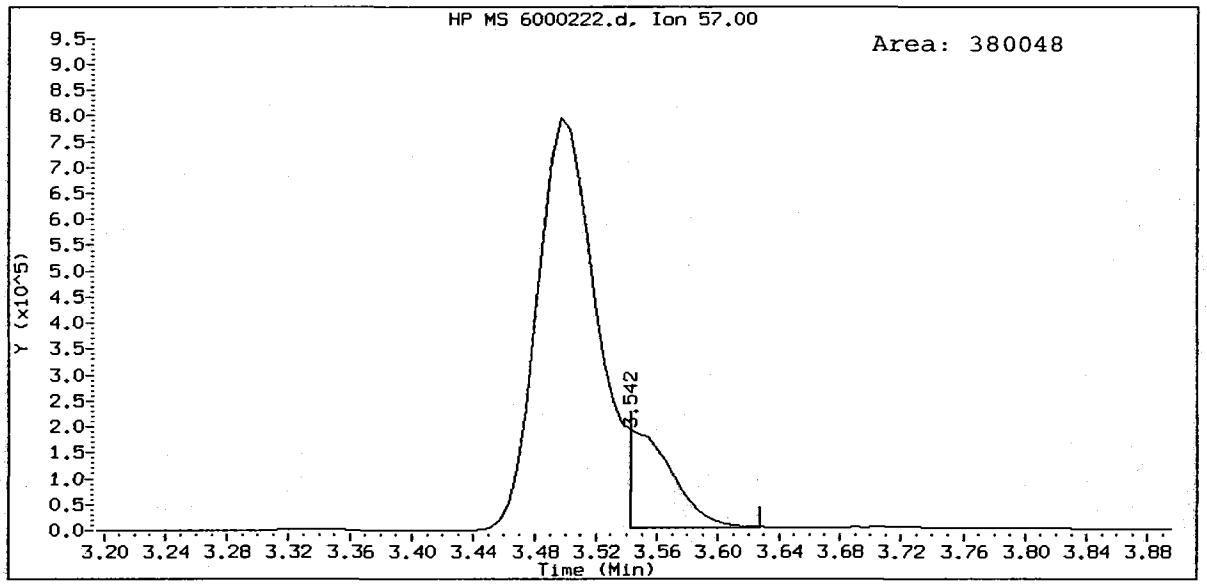
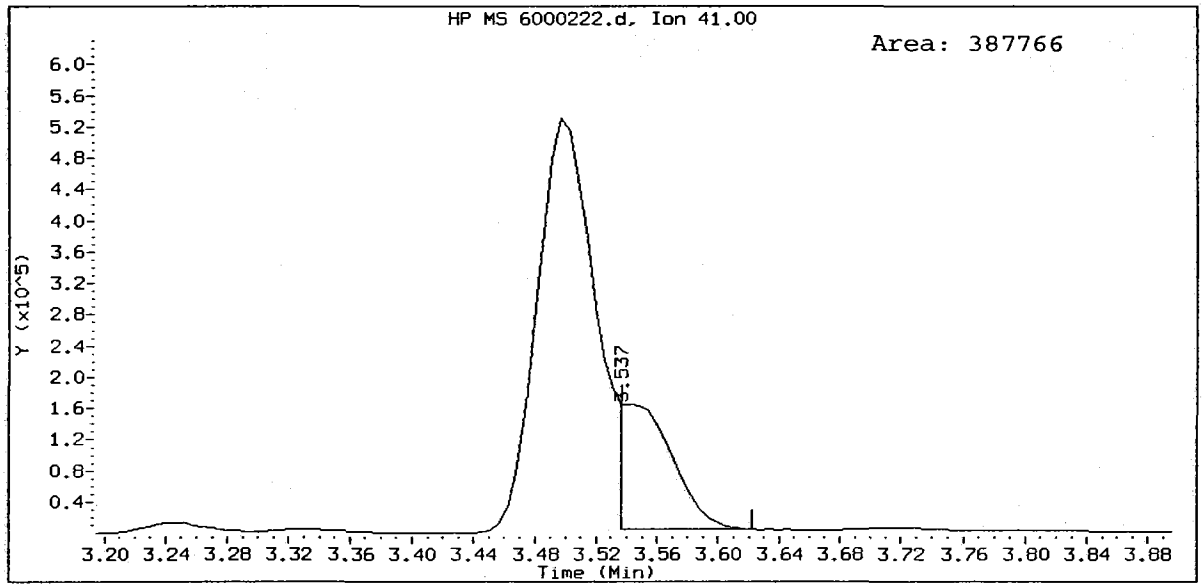
Methyl tert butyl ether Amount: 56.02







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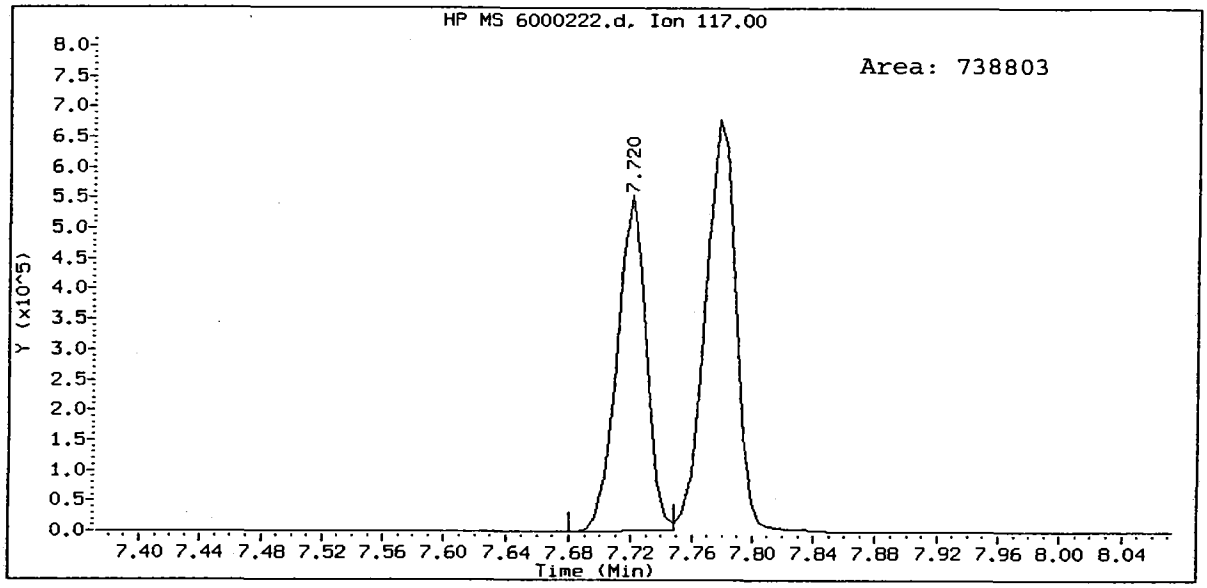
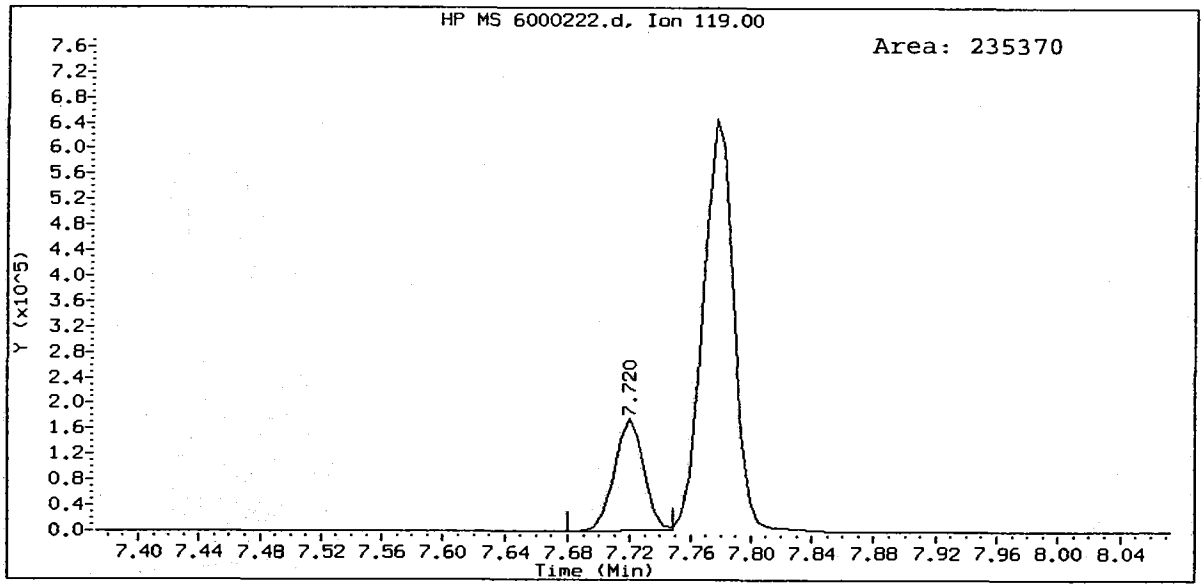
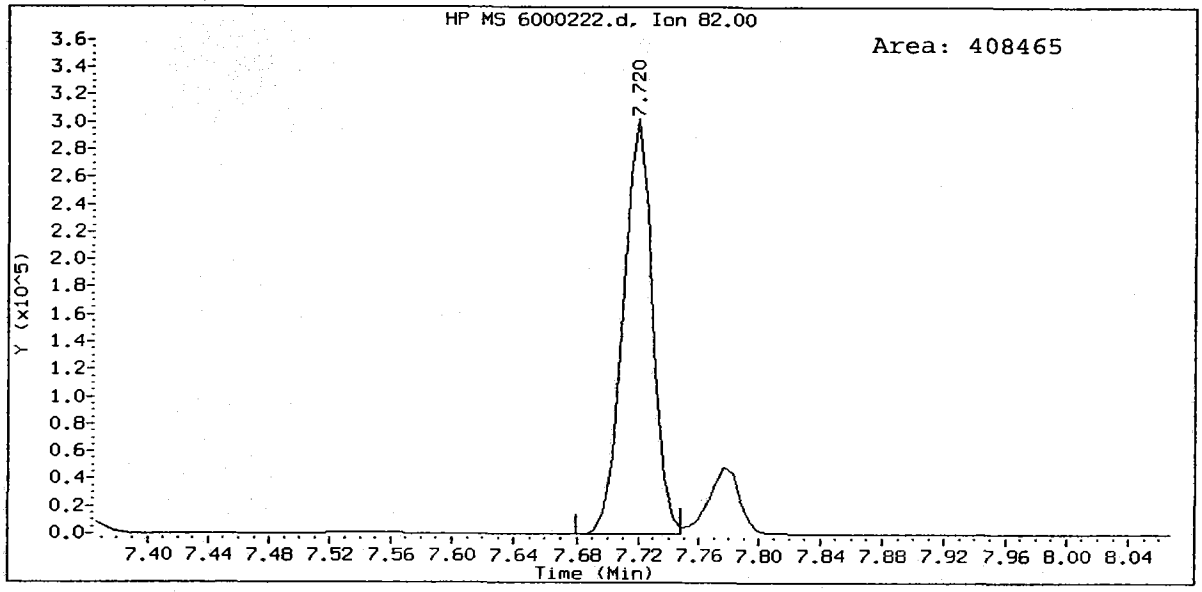
d5-Chlorobenzene Amount: 10.00







Analytical Resources, Inc.

8260C

Data file : /chem1/nt10.i/22FEB10.b/icv0222a.d
Lab Smp Id: ICV0222 Client Smp ID: ICV0222
Inj Date : 22-FEB-2010 19:12
Operator : ar Inst ID: nt10.i
Smp Info : ICV0222,10,10,0
Misc Info : 10-
Comment :
Method : /chem1/nt10.i/22FEB10.b/82600122L.m
Meth Date : 23-Feb-2010 15:01 aron Quant Type: ISTD
Cal Date : 22-FEB-2010 15:12 Cal File: 6000222.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: voa.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	10.00000	Purge Volume (mL)
Sa	10.00000	Sample Amount (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
1	Dichlorodifluoromethane	85	1.385	1.385	(0.263)	125177	11.5667	11.567
2	Chloromethane	50	1.545	1.545	(0.293)	142756	8.81852	8.819(M)
3	Vinyl Chloride	62	1.613	1.613	(0.306)	195221	10.1429	10.143
4	Bromomethane	94	1.886	1.892	(0.358)	149414	9.00055	9.001
5	Chloroethane	64	2.000	2.000	(0.379)	145521	9.62791	9.628
6	Trichlorofluoromethane	101	2.125	2.125	(0.403)	252683	9.33994	9.340
8	Acrolein	56	2.996	2.996	(0.568)	54555	43.9190	43.919
9	112Trichloro122Trifluoroethane	101	2.666	2.666	(0.506)	159576	8.83919	8.839
10	Acetone	43	3.332	3.326	(0.632)	95723	48.1463	48.146
11	1,1-Dichloroethene	96	2.609	2.609	(0.495)	200219	9.32418	9.324
12	Bromoethane	108	2.882	2.882	(0.547)	120600	9.20272	9.203
13	Iodomethane	142	2.746	2.740	(0.521)	250304	8.62478	8.625
14	Methylene Chloride	84	3.252	3.252	(0.617)	173408	9.69450	9.695
15	Acrylonitrile	53	4.089	4.089	(0.775)	23487	9.27590	9.276
16	Methyl tert butyl ether	73	3.554	3.554	(0.674)	334378	10.5904	10.590(QM)
17	Carbon Disulfide	76	2.615	2.615	(0.496)	638482	9.08074	9.081

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
	18 Trans-1,2-Dichloroethene	96	3.411	3.411	(0.647)	219198	9.71485	9.715
	20 Vinyl Acetate	43	4.282	4.282	(0.812)	108877	5.45303	5.453
	21 1,1-Dichloroethane	63	4.020	4.020	(0.763)	370334	10.0745	10.075
	22 2-Butanone	72	4.994	4.994	(0.947)	65540	51.2520	51.252
	23 2,2-Dichloropropane	77	4.584	4.584	(0.869)	133224	9.10834	9.108
	24 Cis-1,2-Dichloroethene	96	4.498	4.498	(0.853)	243874	9.68790	9.688
*	25 Pentafluorobenzene	168	5.272	5.272	(1.000)	431492	10.0000	
	26 Chloroform	83	4.737	4.737	(0.899)	406120	10.3701	10.370
	27 Bromochloromethane	128	4.663	4.663	(0.884)	88529	10.3537	10.354
$	28 Dibromofluoromethane	111	4.880	4.880	(0.926)	183216	10.1812	10.181
	29 1,1,1-Trichloroethane	97	4.885	4.885	(0.927)	303964	9.97843	9.978
	30 1,1-Dichloropropene	75	4.982	4.982	(0.880)	345031	9.89154	9.892
	31 Carbon Tetrachloride	117	4.823	4.823	(0.852)	252170	9.88176	9.882
$	32 d4-1,2-Dichloroethane	65	5.289	5.289	(1.003)	167529	10.5862	10.586
	33 1,2-Dichloroethane	62	5.341	5.341	(0.944)	217856	10.2842	10.284
	34 Benzene	78	5.181	5.181	(0.916)	998942	10.1370	10.137
*	35 1,4-Difluorobenzene	114	5.659	5.659	(1.000)	702592	10.0000	
	36 Trichloroethene	95	5.620	5.620	(0.993)	283779	10.7473	10.747
	37 1,2-Dichloropropane	63	6.001	6.007	(1.060)	220567	10.3392	10.339
	38 Bromodichloromethane	83	6.052	6.052	(1.069)	292245	10.8322	10.832
	39 Dibromomethane	93	5.927	5.927	(1.047)	90768	10.6470	10.647
	40 2-Chloroethyl Vinyl Ether	63	6.468	6.468	(1.143)	73778	14.5685	14.569(R)
	41 4-Methyl-2-Pentanone	58	6.946	6.946	(1.227)	182606	48.5260	48.526
	42 Cis 1,3-dichloropropene	75	6.502	6.502	(1.149)	322389	10.7369	10.737
$	43 d8-Toluene	98	6.633	6.633	(1.172)	853815	9.97324	9.973
	44 Toluene	92	6.667	6.667	(1.178)	691451	10.2873	10.287
	45 Trans 1,3-Dichloropropene	75	6.963	6.963	(1.230)	241210	10.9252	10.925
	46 2-Hexanone	43	7.526	7.526	(0.975)	281423	49.2261	49.226
	47 1,1,2-Trichloroethane	97	7.076	7.076	(1.250)	141604	10.8191	10.819
	48 1,3-Dichloropropane	76	7.264	7.264	(0.941)	254925	10.8564	10.856
	49 Tetrachloroethene	166	6.928	6.928	(0.898)	285485	10.0235	10.023
	50 Chlorodibromomethane	129	7.196	7.196	(0.932)	168703	10.7170	10.717
	51 1,2-Dibromoethane	107	7.361	7.361	(1.301)	127406	10.9600	10.960
*	52 d5-Chlorobenzene	117	7.720	7.720	(1.000)	655186	10.0000	
	53 Chlorobenzene	112	7.731	7.731	(1.001)	728484	10.5791	10.579
	54 Ethyl Benzene	91	7.748	7.748	(1.004)	1374547	10.5200	10.520
	55 1,1,1,2-Tetrachloroethane	131	7.776	7.776	(1.007)	223598	10.6127	10.613
	56 m,p-xylene	106	7.850	7.850	(1.017)	1024369	20.8031	20.803
	58 o-Xylene	106	8.158	8.158	(1.057)	470019	10.5317	10.532
	59 Styrene	104	8.198	8.198	(1.062)	748652	10.6606	10.661
	60 Isopropyl Benzene	105	8.380	8.380	(0.891)	1165928	9.35866	9.359
	61 Bromoform	173	8.215	8.215	(0.874)	75911	10.4048	10.405
	62 1,1,2,2-Tetrachloroethane	83	8.733	8.733	(0.929)	110632	10.3419	10.342
$	63 4-Bromofluorobenzene	95	8.585	8.585	(1.112)	272525	10.2530	10.253
	64 1,2,3-Trichloropropane	110	8.835	8.835	(0.939)	34125	10.5572	10.557
	65 Trans-1,4-Dichloro 2-Butene	53	8.863	8.863	(0.942)	17191	8.46120	8.461
	66 N-Propyl Benzene	91	8.676	8.681	(0.923)	1439312	10.1178	10.118

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
67	Bromobenzene	156	8.659	8.664	(0.921)	245402	10.2877	10.288
68	1,3,5-Trimethyl Benzene	105	8.824	8.824	(0.938)	942013	10.2353	10.235
69	2-Chloro Toluene	91	8.789	8.795	(0.935)	908097	10.1630	10.163
70	4-Chloro Toluene	91	8.915	8.915	(0.948)	799634	10.3315	10.332
71	T-Butyl Benzene	119	9.057	9.057	(0.963)	786545	10.1118	10.112
72	1,2,4-Trimethylbenzene	105	9.108	9.108	(0.969)	901413	10.3497	10.350
73	S-Butyl Benzene	105	9.188	9.188	(0.977)	1164002	10.1789	10.179
74	4-Isopropyl Toluene	119	9.296	9.296	(0.988)	900037	10.3223	10.322
75	1,3-Dichlorobenzene	146	9.347	9.353	(0.994)	419109	10.4745	10.475
* 76	d4-1,4-Dichlorobenzene	152	9.404	9.410	(1.000)	236007	10.0000	
77	1,4-Dichlorobenzene	146	9.415	9.421	(1.001)	397770	10.4187	10.419
78	N-Butyl Benzene	91	9.615	9.620	(1.022)	752497	10.0981	10.098
$ 79	d4-1,2-Dichlorobenzene	152	9.728	9.734	(1.034)	178579	9.72982	9.730
80	1,2-Dichlorobenzene	146	9.740	9.740	(1.036)	310368	10.3113	10.311
81	1,2-Dibromo 3-Chloropropane	75	10.354	10.355	(1.101)	10373	10.8682	10.868
82	1,2,4-Trichlorobenzene	180	10.878	10.878	(1.157)	148343	10.1102	10.110
83	Hexachloro 1,3-Butadiene	225	10.855	10.855	(1.154)	85575	9.79936	9.799
84	Naphthalene	128	11.140	11.140	(1.185)	203436	10.2030	10.203
85	1,2,3-Trichlorobenzene	180	11.282	11.282	(1.200)	108701	10.9280	10.928

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: icv0222a.d
Lab Smp Id: ICV0222
Analysis Type: VOA
Quant Type: ISTD
Operator: ar
Method File: /chem1/nt10.i/22FEB10.b/82600122L.m
Misc Info: 10-

Calibration Date: 22-FEB-2010
Calibration Time: 17:11
Client Smp ID: ICV0222
Level: LOW
Sample Type: WATER

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
25 Pentafluorobenzen	456228	228114	912456	431492	-5.42
35 1,4-Difluorobenze	740651	370326	1481302	702592	-5.14
52 d5-Chlorobenzene	686240	343120	1372480	655186	-4.53
76 d4-1,4-Dichlorobe	249963	124982	499926	236007	-5.58

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
25 Pentafluorobenzen	5.27	4.77	5.77	5.27	0.00
35 1,4-Difluorobenze	5.66	5.16	6.16	5.66	0.00
52 d5-Chlorobenzene	7.72	7.22	8.22	7.72	0.00
76 d4-1,4-Dichlorobe	9.41	8.91	9.91	9.40	-0.06

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: ICV0222
Level: LOW
Data Type: MS DATA
SpikeList File: allspike.spk
Sublist File: voa.sub
Method File: /chem1/nt10.i/22FEB10.b/82600122L.m
Misc Info: 10-

Client SDG: 22FEB10
Fraction: VOA
Client Smp ID: ICV0222
Operator: ar
SampleType: LCS
Quant Type: ISTD

	SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1	Dichlorodifluorome	10.000	11.567	115.67	59-129
2	Chloromethane	10.000	8.819	88.19	66-123
3	Vinyl Chloride	10.000	10.143	101.43	68-121
4	Bromomethane	10.000	9.001	90.01	55-148
5	Chloroethane	10.000	9.628	96.28	47-155
6	Trichlorofluoromet	10.000	9.340	93.40	70-129
8	Acrolein	50.000	43.919	87.84	24-170
9	112Trichloro122Tri	10.000	8.839	88.39	74-127
10	Acetone	50.000	48.146	96.29	70-130
11	1,1-Dichloroethene	10.000	9.324	93.24	72-120
12	Bromoethane	10.000	9.203	92.03	73-131
13	Iodomethane	10.000	8.625	86.25	34-183
14	Methylene Chloride	10.000	9.695	96.95	70-124
15	Acrylonitrile	10.000	9.276	92.76	71-135
17	Carbon Disulfide	10.000	9.081	90.81	66-129
16	Methyl tert butyl	10.000	10.590	105.90	78-120
18	Trans-1,2-Dichloro	10.000	9.715	97.15	76-120
20	Vinyl Acetate	10.000	5.453	54.53	49-134
21	1,1-Dichloroethane	10.000	10.075	100.75	75-120
22	2-Butanone	50.000	51.252	102.50	78-131
23	2,2-Dichloropropan	10.000	9.108	91.08	68-121
24	Cis-1,2-Dichloroet	10.000	9.688	96.88	80-120
26	Chloroform	10.000	10.370	103.70	78-120
27	Bromochloromethane	10.000	10.354	103.54	79-120
29	1,1,1-Trichloroeth	10.000	9.978	99.78	76-120
30	1,1-Dichloropropen	10.000	9.892	98.92	78-120
31	Carbon Tetrachlori	10.000	9.882	98.82	70-126
33	1,2-Dichloroethane	10.000	10.284	102.84	78-120
34	Benzene	10.000	10.137	101.37	79-120
36	Trichloroethene	10.000	10.747	107.47	78-120
37	1,2-Dichloropropan	10.000	10.339	103.39	80-120
38	Bromodichlorometha	10.000	10.832	108.32	78-120
39	Dibromomethane	10.000	10.647	106.47	80-120

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
40 2-Chloroethyl Viny	10.000	14.569	145.69*	68-134
41 4-Methyl-2-Pentano	50.000	48.526	97.05	73-131
42 Cis 1,3-dichloropr	10.000	10.737	107.37	78-120
44 Toluene	10.000	10.287	102.87	79-120
45 Trans 1,3-Dichloro	10.000	10.925	109.25	75-120
46 2-Hexanone	50.000	49.226	98.45	75-130
47 1,1,2-Trichloroeth	10.000	10.819	108.19	79-120
48 1,3-Dichloropropan	10.000	10.856	108.56	78-120
49 Tetrachloroethene	10.000	10.023	100.23	72-120
50 Chlorodibromometha	10.000	10.717	107.17	78-120
51 1,2-Dibromoethane	10.000	10.960	109.60	75-120
53 Chlorobenzene	10.000	10.579	105.79	79-120
55 1,1,1,2-Tetrachlor	10.000	10.613	106.13	75-120
54 Ethyl Benzene	10.000	10.520	105.20	78-120
56 m,p-xylene	20.000	20.803	104.02	65-129
58 o-Xylene	10.000	10.532	105.32	76-120
59 Styrene	10.000	10.661	106.61	74-121
60 Isopropyl Benzene	10.000	9.359	93.59	74-120
61 Bromoform	10.000	10.405	104.05	71-120
62 1,1,2,2-Tetrachlor	10.000	10.342	103.42	70-120
64 1,2,3-Trichloropro	10.000	10.557	105.57	73-120
65 Trans-1,4-Dichloro	10.000	8.461	84.61	65-135
66 N-Propyl Benzene	10.000	10.118	101.18	76-121
67 Bromobenzene	10.000	10.288	102.88	72-120
68 1,3,5-Trimethyl Be	10.000	10.235	102.35	74-123
69 2-Chloro Toluene	10.000	10.163	101.63	74-120
70 4-Chloro Toluene	10.000	10.332	103.32	75-120
71 T-Butyl Benzene	10.000	10.112	101.12	73-121
72 1,2,4-Trimethylben	10.000	10.350	103.50	73-124
73 S-Butyl Benzene	10.000	10.179	101.79	75-123
74 4-Isopropyl Toluen	10.000	10.322	103.22	71-125
75 1,3-Dichlorobenzen	10.000	10.475	104.75	72-120
77 1,4-Dichlorobenzen	10.000	10.419	104.19	76-120
78 N-Butyl Benzene	10.000	10.098	100.98	72-124
80 1,2-Dichlorobenzen	10.000	10.311	103.11	75-120
81 1,2-Dibromo 3-Chlo	10.000	10.868	108.68	67-121
82 1,2,4-Trichloroben	10.000	10.110	101.10	71-120
83 Hexachloro 1,3-But	10.000	9.799	97.99	67-124
84 Naphthalene	10.000	10.203	102.03	71-125
85 1,2,3-Trichloroben	10.000	10.928	109.28	61-134

SURROGATE COMPOUND	AMOUNT ADDED ug/L	AMOUNT RECOVERED ug/L	% RECOVERED	LIMITS
$ 28 Dibromofluorometha	10.000	10.181	101.81	60-130

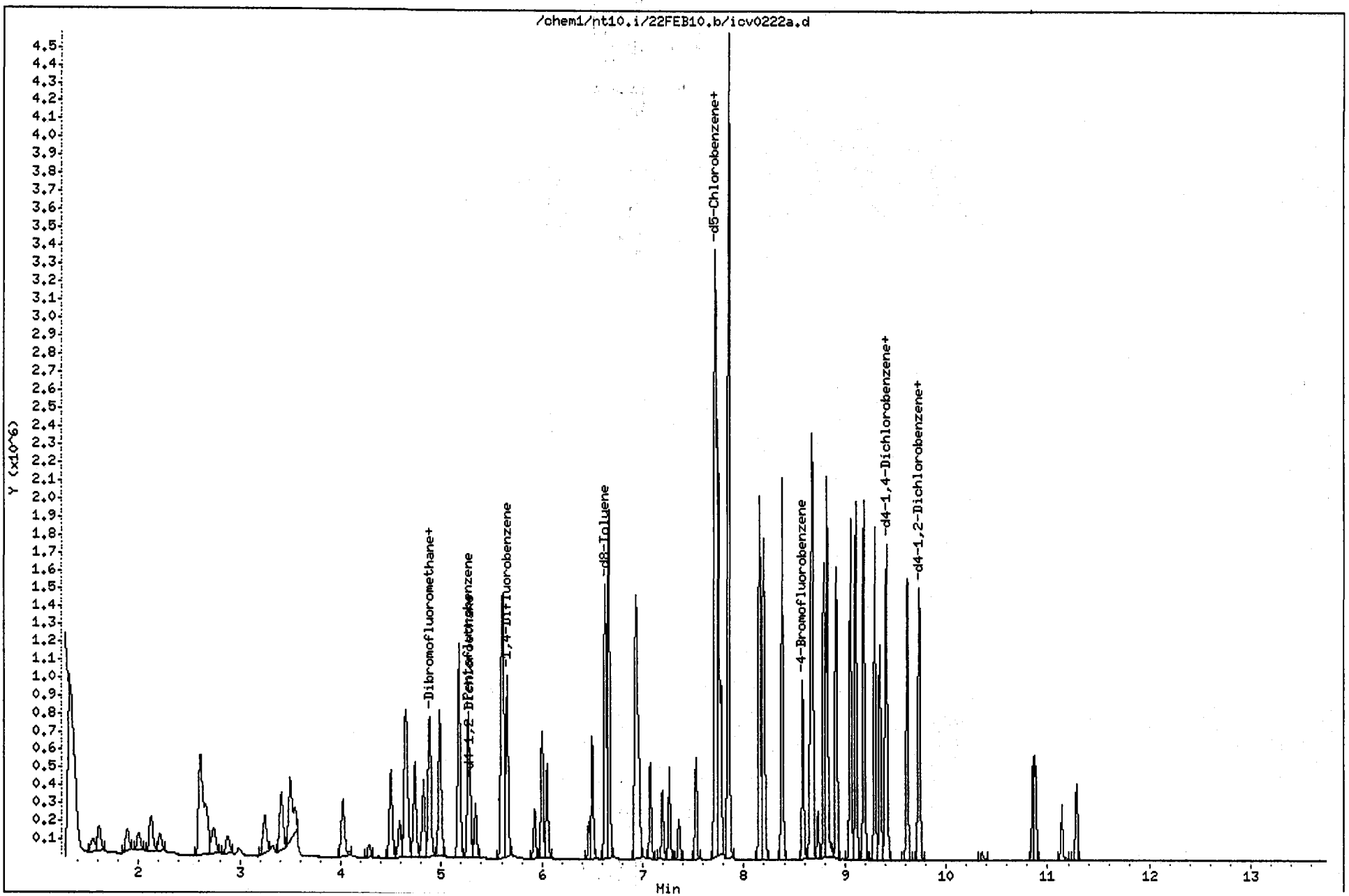
SURROGATE COMPOUND	AMOUNT ADDED ug/L	AMOUNT RECOVERED ug/L	% RECOVERED	LIMITS
$ 32 d4-1,2-Dichloroeth	10.000	10.586	105.86	80-143
$ 43 d8-Toluene	10.000	9.973	99.73	80-120
$ 63 4-Bromofluorobenze	10.000	10.253	102.53	80-120
$ 79 d4-1,2-Dichloroben	10.000	9.730	97.30	80-120

Data File: /chem1/nt10.i/22FEB10.b/icv0222a.d
Date : 22-FEB-2010 19:12
Client ID: ICV0222
Sample Info: ICV0222,10,10,0

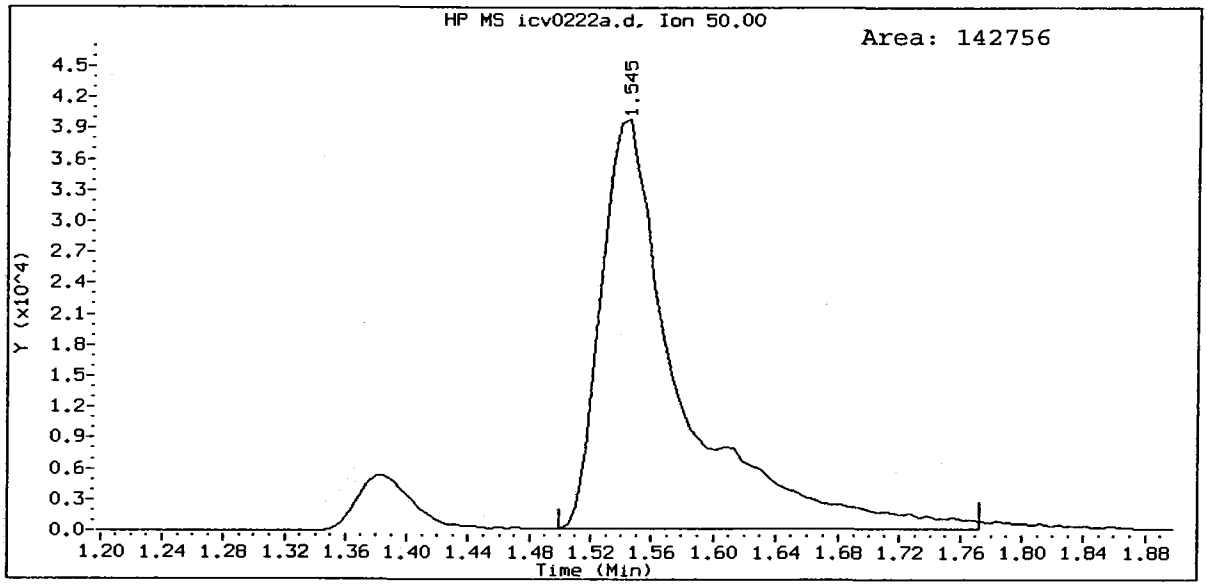
Instrument: nt10.i

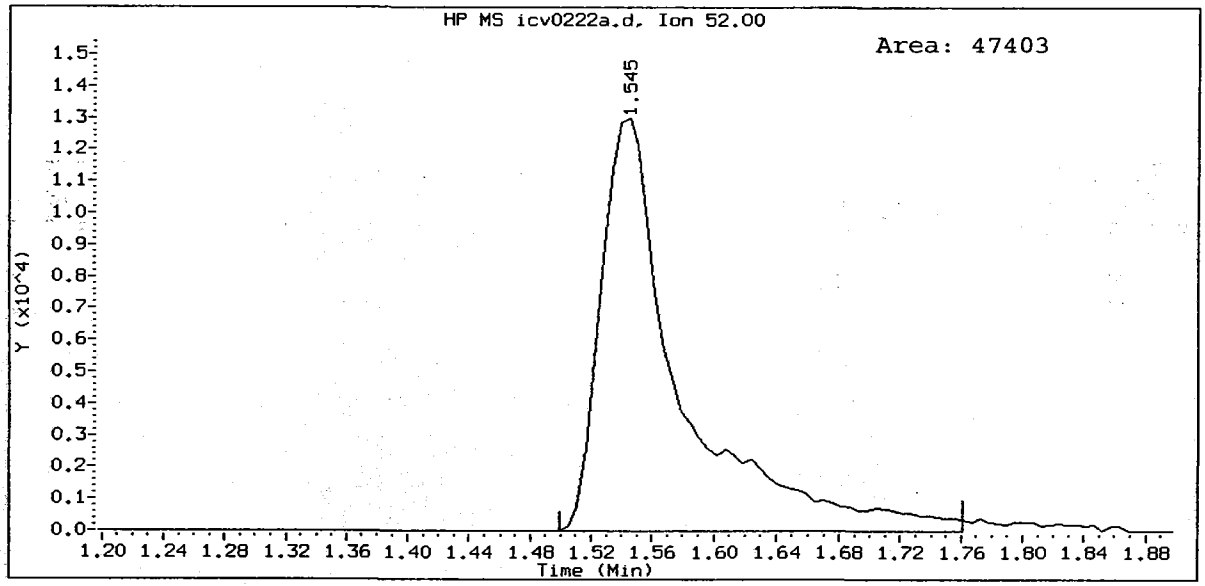
Operator: ar
Column diameter: 0.18

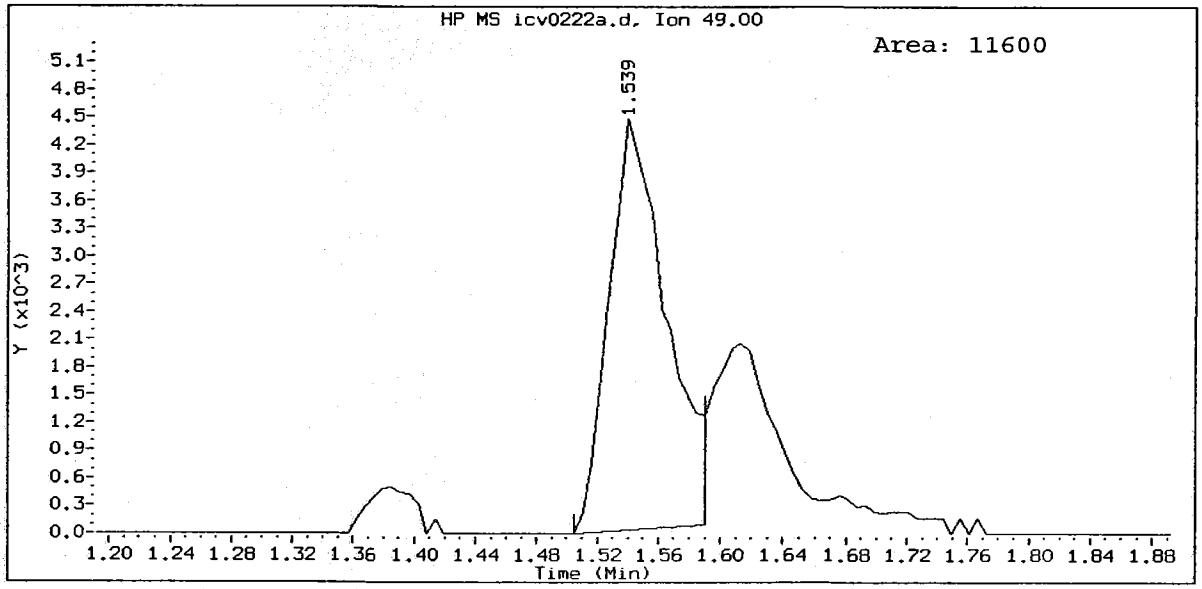
Column phase: RTX502.2



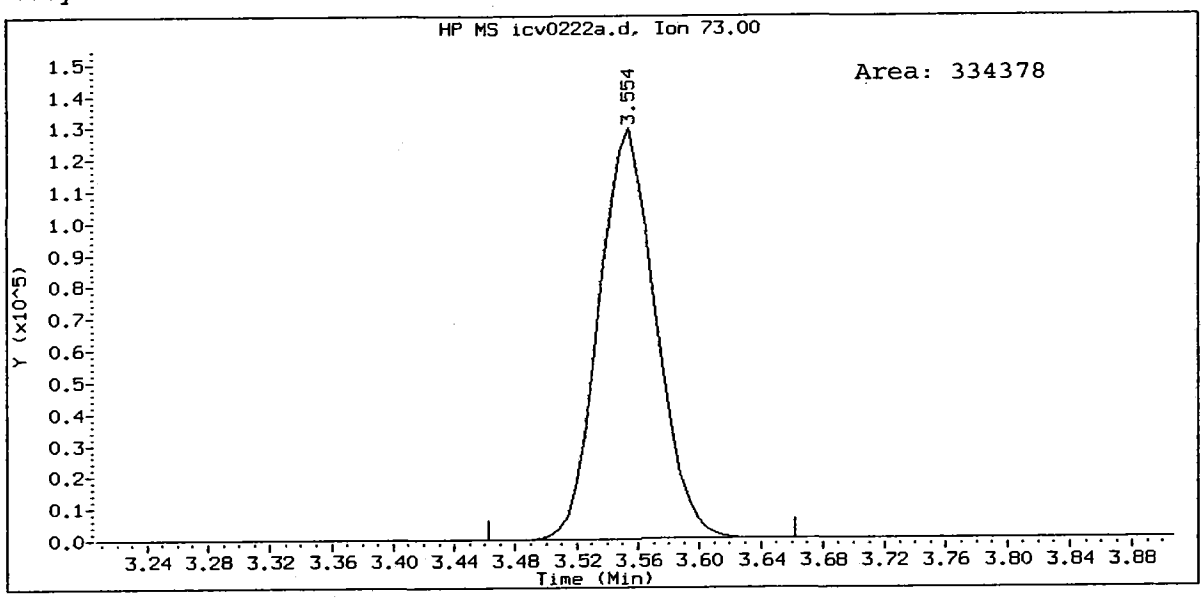
ICV0222, /chem1/nt10.i/22FEB10.b/icv0222a.d
Chloromethane Amount: 8.82

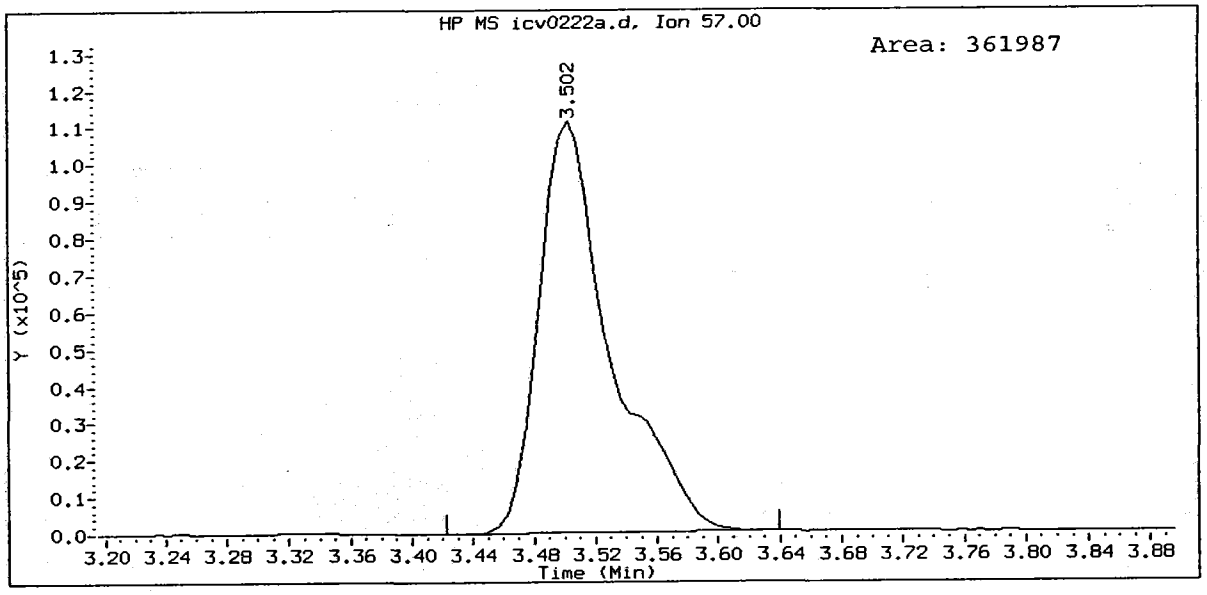


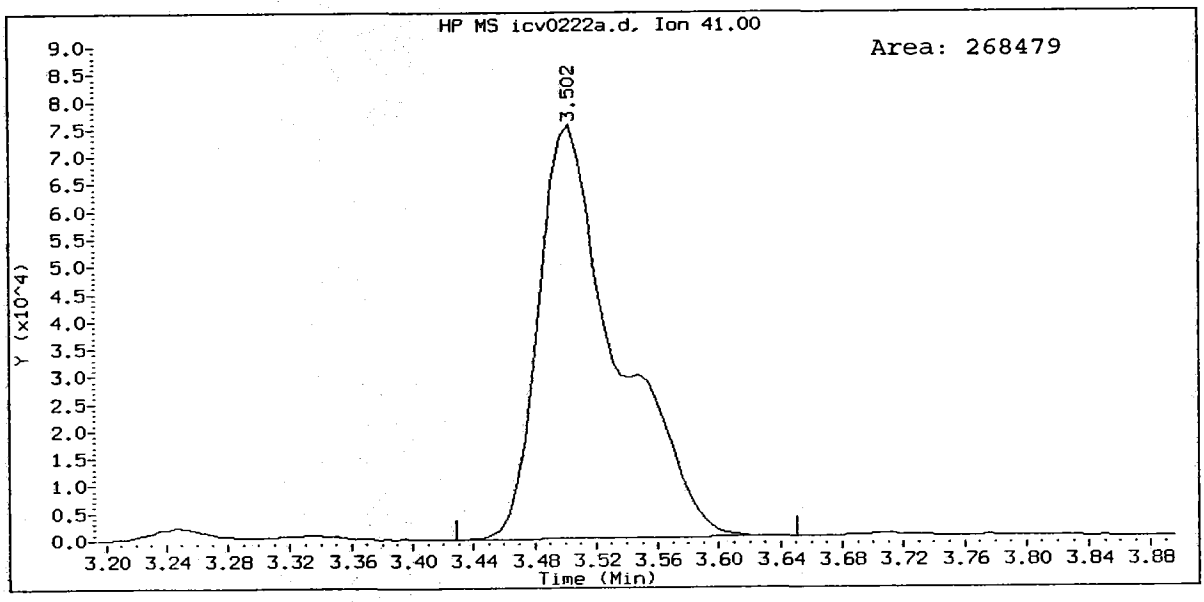




ICV0222, /chem1/nt10.i/22FEB10.b/icv0222a.d
Methyl tert butyl ether Amount: 10.59







FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD-SNIDER

ARI Job No: 09MAR10 Project: LORA LAKES APARTMENTS

Instrument ID: NT5 Calibration Date: 03/09/10

LAB FILE ID: RF0.1: 03091006 RF0.2: 03091007 RF0.5: 03091008
RF1: 03091009 RF2: 03091017

COMPOUND	RF0.1	RF0.2	RF0.5	RF1	RF2
Chloromethane		0.817	0.777	0.763	0.805
Vinyl Chloride		0.927	0.868	0.873	0.901
Bromomethane		0.481	0.447	0.433	0.356
Chloroethane		0.489	0.487	0.618	0.634
Trichlorofluoromethane		0.762	0.889	0.883	0.908
Acrolein					0.029
112Trichloro122Trifluoroetha		0.674	0.682	0.685	0.711
Acetone					0.119
1,1-Dichloroethene		0.576	0.665	0.653	0.677
Bromoethane		0.476	0.442	0.459	0.469
Iodomethane			0.765	0.781	0.990
Methylene Chloride			1.129	0.902	0.804
Acrylonitrile				0.148	0.134
Carbon Disulfide		2.452	2.523	2.437	2.650
Trans-1,2-Dichloroethene		0.738	0.732	0.705	0.719
Vinyl Acetate				0.854	0.932
1,1-Dichloroethane		1.395	1.464	1.471	1.474
2-Butanone					0.099
2,2-Dichloropropane		1.184	1.148	1.157	1.192
Cis-1,2-Dichloroethene		0.747	0.741	0.744	0.767
Chloroform		1.256	1.260	1.204	1.280
Bromochloromethane	0.298	0.291	0.282	0.283	0.280
1,1,1-Trichloroethane		1.121	1.077	1.032	1.078
1,1-Dichloropropene		0.570	0.576	0.566	0.581
Carbon Tetrachloride		0.491	0.439	0.446	0.456
1,2-Dichloroethane		0.426	0.456	0.425	0.423
Benzene		1.713	1.720	1.725	1.778
Trichloroethene		0.367	0.374	0.369	0.378
1,2-Dichloropropane		0.467	0.429	0.431	0.443
Bromodichloromethane		0.482	0.452	0.438	0.466
Dibromomethane		0.161	0.169	0.156	0.162
2-Chloroethyl Vinyl Ether				0.167	0.179
4-Methyl-2-Pentanone					0.100
Cis 1,3-dichloropropene		0.613	0.618	0.627	0.645
Toluene		1.080	1.048	1.009	1.067
Trans 1,3-Dichloropropene		0.524	0.493	0.469	0.488
2-Hexanone					0.174

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD-SNIDER

ARI Job No: 09MAR10 Project: LORA LAKES APARTMENTS

Instrument ID: NT5 Calibration Date: 03/09/10

LAB FILE ID: RF0.1: 03091006 RF0.2: 03091007 RF0.5: 03091008
RF1: 03091009 RF2: 03091017

COMPOUND	RF0.1	RF0.2	RF0.5	RF1	RF2
1,1,2-Trichloroethane		0.249	0.244	0.238	0.251
1,3-Dichloropropane		0.539	0.555	0.543	0.559
Tetrachloroethene		0.385	0.362	0.381	0.395
Chlorodibromomethane		0.283	0.284	0.294	0.306
1,2-Dibromoethane		0.224	0.207	0.214	0.224
Chlorobenzene		1.155	1.202	1.162	1.192
Ethyl Benzene		2.111	2.256	2.296	2.293
1,1,1,2-Tetrachloroethane		0.352	0.387	0.372	0.375
m,p-xylene	0.773	0.757	0.810	0.821	0.849
o-Xylene		0.782	0.763	0.799	0.794
Styrene		1.226	1.189	1.211	1.288
Bromoform		0.281	0.295	0.298	0.311
1,1,2,2-Tetrachloroethane		0.722	0.719	0.664	0.688
1,2,3-Trichloropropane			0.190	0.165	0.170
Trans-1,4-Dichloro 2-Butene				0.220	0.229
N-Propyl Benzene		5.275	5.481	5.481	5.672
Bromobenzene		0.942	0.830	0.857	0.889
Isopropyl Benzene		4.278	4.293	4.612	4.800
2-Chloro Toluene		3.078	3.224	3.070	3.309
4-Chloro Toluene		3.274	3.321	3.187	3.358
T-Butyl Benzene		2.950	2.890	3.005	3.082
1,3,5-Trimethyl Benzene		3.443	3.590	3.581	3.679
1,2,4-Trimethylbenzene		3.580	3.535	3.560	3.667
S-Butyl Benzene		4.800	4.708	4.623	4.781
4-Isopropyl Toluene		3.419	3.621	3.481	3.762
1,3-Dichlorobenzene		1.931	1.688	1.736	1.780
1,4-Dichlorobenzene		2.132	1.790	1.721	1.815
N-Butyl Benzene		3.705	3.517	3.413	3.740
1,2-Dichlorobenzene		1.772	1.633	1.520	1.596
1,2-Dibromo 3-Chloropropane			0.116	0.119	0.125
1,2,4-Trichlorobenzene			1.012	0.929	0.988
Hexachloro 1,3-Butadiene			0.410	0.346	0.393
Naphthalene			2.077	1.854	2.018
1,2,3-Trichlorobenzene			0.741	0.751	0.804
Methyl tert butyl ether	1.563	1.519	1.593	1.618	1.643
Dichlorodifluoromethane		0.301	0.380	0.421	0.436
Hexane					

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD-SNIDER

ARI Job No: 09MAR10 Project: LORA LAKES APARTMENTS

Instrument ID: NT5 Calibration Date: 03/09/10

LAB FILE ID: RF0.1: 03091006 RF0.2: 03091007 RF0.5: 03091008
RF1: 03091009 RF2: 03091017

COMPOUND	RF0.1	RF0.2	RF0.5	RF1	RF2
Allyl Chloride					
Methyl Methacrylate					
Cyclohexanone					
d4-1,2-Dichloroethane	0.531	0.527	0.556	0.544	0.527
d8-Toluene	1.169	1.167	1.180	1.154	1.154
4-Bromofluorobenzene	0.456	0.480	0.461	0.485	0.473
d4-1,2-Dichlorobenzene	0.873	0.876	0.892	0.884	0.874
Dibromofluoromethane	0.464	0.471	0.476	0.470	0.470

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD-SNIDER

ARI Job No: 09MAR10 Project: LORA LAKES APARTMENTS

Instrument ID: NT5 Calibration Date: 03/09/10

LAB FILE ID: RF10: 03091011 RF20: 03091012 RF40: 03091013
RF60: 03091014 RF150: 03091015

COMPOUND	RF10	RF20	RF40	RF60	RF150
Chloromethane	0.786	0.761	0.832	0.797	
Vinyl Chloride	0.837	0.814	0.891	0.865	
Bromomethane	0.437	0.452	0.514	0.517	
Chloroethane	0.566	0.535	0.577	0.567	
Trichlorofluoromethane	0.837	0.824	0.888	0.851	
Acrolein	0.029	0.026	0.030	0.030	0.031
112Trichloro122Trifluoroetha	0.656	0.636	0.682	0.683	
Acetone	0.103	0.094	0.095	0.096	0.100
1,1-Dichloroethene	0.635	0.617	0.660	0.636	
Bromoethane	0.479	0.459	0.490	0.488	
Iodomethane	0.789	0.748	0.788	0.777	
Methylene Chloride	0.705	0.674	0.718	0.697	
Acrylonitrile	0.133	0.138	0.148	0.146	
Carbon Disulfide	2.480	2.392	2.461	2.345	
Trans-1,2-Dichloroethene	0.701	0.678	0.730	0.702	
Vinyl Acetate	0.902	0.896	0.956	0.954	
1,1-Dichloroethane	1.417	1.371	1.435	1.375	
2-Butanone	0.083	0.081	0.084	0.081	
2,2-Dichloropropane	1.095	1.071	1.105	1.057	
Cis-1,2-Dichloroethene	0.748	0.725	0.760	0.733	
Chloroform	1.225	1.175	1.241	1.187	
Bromochloromethane	0.275	0.272	0.284	0.281	
1,1,1-Trichloroethane	1.048	1.006	1.066	1.018	
1,1-Dichloropropene	0.560	0.566	0.578	0.563	
Carbon Tetrachloride	0.455	0.442	0.455	0.441	
1,2-Dichloroethane	0.412	0.415	0.423	0.413	
Benzene	1.719	1.663	1.641	1.516	
Trichloroethene	0.364	0.360	0.371	0.360	
1,2-Dichloropropane	0.434	0.431	0.440	0.426	
Bromodichloromethane	0.458	0.457	0.467	0.455	
Dibromomethane	0.158	0.155	0.161	0.160	
2-Chloroethyl Vinyl Ether	0.175	0.179	0.183	0.187	
4-Methyl-2-Pentanone	0.083	0.085	0.088	0.090	0.089
Cis 1,3-dichloropropene	0.632	0.628	0.633	0.610	
Toluene	1.037	1.020	1.023	0.970	
Trans 1,3-Dichloropropene	0.498	0.500	0.513	0.496	
2-Hexanone	0.163	0.162	0.169	0.174	0.169

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD-SNIDER

ARI Job No: 09MAR10 Project: LORA LAKES APARTMENTS

Instrument ID: NT5 Calibration Date: 03/09/10

LAB FILE ID: RF10: 03091011 RF20: 03091012 RF40: 03091013
RF60: 03091014 RF150: 03091015

COMPOUND	RF10	RF20	RF40	RF60	RF150
1,1,2-Trichloroethane	0.243	0.240	0.243	0.239	
1,3-Dichloropropane	0.552	0.544	0.561	0.538	
Tetrachloroethene	0.380	0.370	0.378	0.366	
Chlorodibromomethane	0.296	0.298	0.307	0.301	
1,2-Dibromoethane	0.215	0.218	0.226	0.221	
Chlorobenzene	1.162	1.134	1.142	1.079	
Ethyl Benzene	2.264	2.154	2.074	1.821	
1,1,1,2-Tetrachloroethane	0.371	0.364	0.378	0.365	
m,p-xylene	0.839	0.809	0.800	0.722	
o-Xylene	0.812	0.792	0.813	0.772	
Styrene	1.322	1.317	1.325	1.219	
Bromoform	0.293	0.285	0.293	0.287	
1,1,2,2-Tetrachloroethane	0.640	0.623	0.639	0.614	
1,2,3-Trichloropropane	0.156	0.154	0.156	0.150	
Trans-1,4-Dichloro 2-Butene	0.192	0.180	0.197	0.202	
N-Propyl Benzene	5.379	5.060	4.643	3.915	
Bromobenzene	0.828	0.806	0.819	0.781	
Isopropyl Benzene	4.439	4.242	3.992	3.487	
2-Chloro Toluene	3.189	3.033	2.961	2.693	
4-Chloro Toluene	3.186	3.100	3.015	2.728	
T-Butyl Benzene	2.970	2.868	2.838	2.627	
1,3,5-Trimethyl Benzene	3.587	3.446	3.342	2.997	
1,2,4-Trimethylbenzene	3.551	3.453	3.372	3.016	
S-Butyl Benzene	4.608	4.376	4.139	3.614	
4-Isopropyl Toluene	3.556	3.447	3.350	3.022	
1,3-Dichlorobenzene	1.678	1.635	1.681	1.610	
1,4-Dichlorobenzene	1.686	1.640	1.690	1.618	
N-Butyl Benzene	3.501	3.368	3.328	2.970	
1,2-Dichlorobenzene	1.490	1.463	1.524	1.463	
1,2-Dibromo 3-Chloropropane	0.102	0.103	0.109	0.107	
1,2,4-Trichlorobenzene	0.872	0.888	0.946	0.921	
Hexachloro 1,3-Butadiene	0.339	0.335	0.354	0.345	
Naphthalene	1.820	1.879	1.977	1.887	
1,2,3-Trichlorobenzene	0.704	0.716	0.760	0.736	
Methyl tert butyl ether	1.609	1.560	2.146	1.526	
Dichlorodifluoromethane	0.396	0.376	0.437	0.428	
Hexane					

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD-SNIDER

ARI Job No: 09MAR10 Project: LORA LAKES APARTMENTS

Instrument ID: NT5 Calibration Date: 03/09/10

LAB FILE ID: RF10: 03091011 RF20: 03091012 RF40: 03091013
RF60: 03091014 RF150: 03091015

COMPOUND	RF10	RF20	RF40	RF60	RF150
Allyl Chloride					
Methyl Methacrylate					
Cyclohexanone					
d4-1,2-Dichloroethane	0.521	0.529	0.532	0.522	0.526
d8-Toluene	1.157	1.169	1.150	1.155	1.172
4-Bromofluorobenzene	0.487	0.478	0.487	0.492	0.462
d4-1,2-Dichlorobenzene	0.869	0.867	0.897	0.887	0.884
Dibromofluoromethane	0.470	0.464	0.468	0.463	0.455

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD-SNIDER

ARI Job No: 09MAR10 Project: LORA LAKES APARTMENTS

Instrument ID: NT5 Calibration Date: 03/09/10

COMPOUND	CURVE TYPE	AVE RF	%RSD OR R^2
Chloromethane	AVRG	0.792	3.2
Vinyl Chloride	AVRG	0.872	4.1
Bromomethane	AVRG	0.455	11.4
Chloroethane	AVRG	0.559	9.6
Trichlorofluoromethane	AVRG	0.855	5.6
Acrolein	AVRG	0.029	5.0
112Trichloro122Trifluoroetha	AVRG	0.676	3.3
Acetone	AVRG	0.101	9.3
1,1-Dichloroethene	AVRG	0.640	5.0
Bromoethane	AVRG	0.470	3.5
Iodomethane	AVRG	0.806	10.2
Methylene Chloride	LINR		0.9994
Acrylonitrile	AVRG	0.141	4.8
Carbon Disulfide	AVRG	2.468	3.7
Trans-1,2-Dichloroethene	AVRG	0.713	2.8
Vinyl Acetate	AVRG	0.916	4.3
1,1-Dichloroethane	AVRG	1.425	3.0
2-Butanone	AVRG	0.086	8.9
2,2-Dichloropropane	AVRG	1.126	4.6
Cis-1,2-Dichloroethene	AVRG	0.746	1.8
Chloroform	AVRG	1.228	3.0
Bromochloromethane	AVRG	0.283	2.8
1,1,1-Trichloroethane	AVRG	1.056	3.6
1,1-Dichloropropene	AVRG	0.570	1.3
Carbon Tetrachloride	AVRG	0.453	3.7
1,2-Dichloroethane	AVRG	0.424	3.3
Benzene	AVRG	1.684	4.7
Trichloroethene	AVRG	0.368	1.8
1,2-Dichloropropane	AVRG	0.438	3.0
Bromodichloromethane	AVRG	0.459	2.8
Dibromomethane	AVRG	0.160	2.6
2-Chloroethyl Vinyl Ether	AVRG	0.178	3.8
4-Methyl-2-Pentanone	AVRG	0.089	6.6
Cis 1,3-dichloropropene	AVRG	0.626	1.8
Toluene	AVRG	1.032	3.4
Trans 1,3-Dichloropropene	AVRG	0.498	3.3
2-Hexanone	AVRG	0.168	3.0

<- Indicates value outside QC limits:
(%RSD < 20% or R^2 > 0.990)

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD-SNIDER

ARI Job No: 09MAR10 Project: LORA LAKES APARTMENTS

Instrument ID: NT5 Calibration Date: 03/09/10

COMPOUND	CURVE TYPE	AVE RF	%RSD OR R^2
1,1,2-Trichloroethane	AVRG	0.243	1.9
1,3-Dichloropropane	AVRG	0.549	1.6
Tetrachloroethene	AVRG	0.377	2.8
Chlorodibromomethane	AVRG	0.296	3.0
1,2-Dibromoethane	AVRG	0.218	2.9
Chlorobenzene	AVRG	1.154	3.3
Ethyl Benzene	AVRG	2.159	7.4
1,1,1,2-Tetrachloroethane	AVRG	0.370	2.8
m,p-xylene	AVRG	0.798	5.1
o-Xylene	AVRG	0.791	2.3
Styrene	AVRG	1.262	4.5
Bromoform	AVRG	0.293	3.1
1,1,2,2-Tetrachloroethane	AVRG	0.664	6.3
1,2,3-Trichloropropane	AVRG	0.163	8.5
Trans-1,4-Dichloro 2-Butene	AVRG	0.203	8.8
N-Propyl Benzene	AVRG	5.113	11.3
Bromobenzene	AVRG	0.844	6.0
Isopropyl Benzene	AVRG	4.268	9.4
2-Chloro Toluene	AVRG	3.070	6.2
4-Chloro Toluene	AVRG	3.146	6.4
T-Butyl Benzene	AVRG	2.904	4.7
1,3,5-Trimethyl Benzene	AVRG	3.458	6.2
1,2,4-Trimethylbenzene	AVRG	3.467	5.8
S-Butyl Benzene	AVRG	4.456	9.1
4-Isopropyl Toluene	AVRG	3.457	6.3
1,3-Dichlorobenzene	AVRG	1.717	5.9
1,4-Dichlorobenzene	AVRG	1.762	9.3
N-Butyl Benzene	AVRG	3.443	7.0
1,2-Dichlorobenzene	AVRG	1.558	6.8
1,2-Dibromo 3-Chloropropane	AVRG	0.112	7.6
1,2,4-Trichlorobenzene	AVRG	0.937	5.4
Hexachloro 1,3-Butadiene	AVRG	0.360	8.1
Naphthalene	AVRG	1.930	4.9
1,2,3-Trichlorobenzene	AVRG	0.744	4.4
Methyl tert butyl ether	AVRG	1.642	11.8
Dichlorodifluoromethane	AVRG	0.397	11.5
Hexane	AVRG	99999	

<- Indicates value outside QC limits:
(%RSD < 20% or R^2 > 0.990)

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD-SNIDER

ARI Job No: 09MAR10 Project: LORA LAKES APARTMENTS

Instrument ID: NT5 Calibration Date: 03/09/10

COMPOUND	CURVE TYPE	AVE RF	%RSD OR R^2
Allyl Chloride	AVRG	99999	
Methyl Methacrylate	AVRG	99999	
Cyclohexanone	AVRG	99999	
d4-1,2-Dichloroethane	AVRG	0.531	2.0
d8-Toluene	AVRG	1.163	0.8
4-Bromofluorobenzene	AVRG	0.476	2.6
d4-1,2-Dichlorobenzene	AVRG	0.880	1.2
Dibromofluoromethane	AVRG	0.467	1.2

<- Indicates value outside QC limits:
(%RSD < 20% or R^2 > 0.990)

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAR-2010 12:04
End Cal Date : 09-MAR-2010 16:45
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/nt5.i/09MAR10.b/8260c030910L.m
Cal Date : 09-Mar-2010 18:24 paul
Curve Type : Average

Calibration File Names:
Level 1: /chem1/nt5.i/09MAR10.b/03091006.d
Level 2: /chem1/nt5.i/09MAR10.b/03091007.d
Level 3: /chem1/nt5.i/09MAR10.b/03091008.d
Level 4: /chem1/nt5.i/09MAR10.b/03091009.d
Level 5: /chem1/nt5.i/09MAR10.b/03091017.d
Level 6: /chem1/nt5.i/09MAR10.b/03091011.d
Level 7: /chem1/nt5.i/09MAR10.b/03091012.d
Level 8: /chem1/nt5.i/09MAR10.b/03091013.d
Level 9: /chem1/nt5.i/09MAR10.b/03091014.d
Level 10: /chem1/nt5.i/09MAR10.b/03091015.d

Compound	0.10000 Level 1	0.20000 Level 2	0.50000 Level 3	1.000 Level 4	2.000 Level 5	10.000 Level 6	RRF	% RSD	
	20.000 Level 7	40.000 Level 8	60.000 Level 9	150.000 Level 10					
1 Dichlorodifluoromethane	+++++	0.30127	0.37979	0.42125	0.43568	0.39624			
	0.37657	0.43721	0.42831	+++++			0.39704	11.487	
172 Hexane	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++	+++++			+++++	+++++	<-
2 Chloromethane	+++++	0.81734	0.77692	0.76267	0.80520	0.78593			
	0.76066	0.83175	0.79665	+++++			0.79214	3.209	
3 Vinyl Chloride	+++++	0.92665	0.86837	0.87307	0.90097	0.83747			
	0.81385	0.89086	0.86493	+++++			0.87202	4.071	
4 Bromomethane	+++++	0.48097	0.44724	0.43276	0.35584	0.43693			
	0.45217	0.51407	0.51724	+++++			0.45465	11.386	

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAR-2010 12:04
End Cal Date : 09-MAR-2010 16:45
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/nt5.i/09MAR10.b/8260c030910L.m
Cal Date : 09-Mar-2010 18:24 paul
Curve Type : Average

Compound	0.10000 Level 1 / 20.000 Level 7	0.20000 Level 2 / 40.000 Level 8	0.50000 Level 3 / 60.000 Level 9	1.000 Level 4 / 150.000 Level 10	2.000 Level 5	10.000 Level 6	___ RRF	% RSD	
5 Chloroethane	+++++	0.48942	0.48686	0.61756	0.63413	0.56653			
	0.53518	0.57703	0.56660	+++++			0.55916	9.590	
6 Trichlorofluoromethane	+++++	0.76162	0.88873	0.88299	0.90835	0.83694			
	0.82426	0.88810	0.85110	+++++			0.85526	5.567	
7 1,1-Dichloroethene	+++++	0.57588	0.66484	0.65302	0.67683	0.63483			
	0.61736	0.65972	0.63652	+++++			0.63987	5.010	
8 Carbon Disulfide	+++++	2.45193	2.52273	2.43695	2.65046	2.48058			
	2.39254	2.46072	2.34509	+++++			2.46762	3.705	
9 112Trichloro122Trifluoroethan	+++++	0.67404	0.68170	0.68516	0.71072	0.65646			
	0.63560	0.68232	0.68274	+++++			0.67609	3.272	
10 Iodomethane	+++++	+++++	0.76540	0.78143	0.98999	0.78886			
	0.74836	0.78835	0.77729	+++++			0.80567	10.243	
11 Bromoethane	+++++	0.47642	0.44243	0.45907	0.46949	0.47919			
	0.45877	0.49003	0.48837	+++++			0.47047	3.473	
12 Acrolein	+++++	+++++	+++++	+++++	0.02936	0.02933			
	0.02653	0.03005	0.03001	0.03071			0.02933	4.999	
13 Methylene Chloride	+++++	+++++	1.12939	0.90237	0.80452	0.70481			
	0.67396	0.71803	0.69686	+++++			0.80428	20.378	<-

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

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Method file : /chem1/nt5.i/09MAR10.b/8260c030910L.m
Cal Date : 09-Mar-2010 18:24 paul
Curve Type : Average

Compound	0.10000 Level 1 / 20.000 Level 7	0.20000 Level 2 / 40.000 Level 8	0.50000 Level 3 / 60.000 Level 9	1.000 Level 4 / 150.000 Level 10	2.000 Level 5	10.000 Level 6	___ RRF	% RSD
14 Acetone	+++++	+++++	+++++	+++++	0.11907	0.10320		
	0.09368	0.09486	0.09607	0.10051			0.10123	9.337
15 Trans-1,2-Dichloroethene	+++++	0.73840	0.73192	0.70529	0.71885	0.70141		
	0.67826	0.72987	0.70220	+++++			0.71327	2.823
16 Methyl tert butyl ether	1.56342	1.51920	1.59294	1.61838	1.64335	1.60861		
	1.56018	2.14649	1.52557	+++++			1.64202	11.795
17 1,1-Dichloroethane	+++++	1.39471	1.46410	1.47060	1.47442	1.41708		
	1.37133	1.43520	1.37535	+++++			1.42535	2.962
18 Acrylonitrile	+++++	+++++	+++++	0.14760	0.13449	0.13317		
	0.13848	0.14754	0.14650	+++++			0.14130	4.758
19 Vinyl Acetate	+++++	+++++	+++++	0.85400	0.93160	0.90172		
	0.89568	0.95643	0.95394	+++++			0.91556	4.308
20 Cis-1,2-Dichloroethene	+++++	0.74723	0.74110	0.74403	0.76714	0.74819		
	0.72502	0.75986	0.73275	+++++			0.74566	1.819
21 2,2-Dichloropropane	+++++	1.18380	1.14779	1.15748	1.19222	1.09498		
	1.07099	1.10528	1.05683	+++++			1.12617	4.552
22 Bromochloromethane	0.29822	0.29105	0.28199	0.28344	0.28059	0.27483		
	0.27220	0.28443	0.28100	+++++			0.28308	2.773

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

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Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/nt5.i/09MAR10.b/8260c030910L.m
Cal Date : 09-Mar-2010 18:24 paul
Curve Type : Average

Compound	0.10000 Level 1	0.20000 Level 2	0.50000 Level 3	1.000 Level 4	2.000 Level 5	10.000 Level 6	RRF	% RSD	
	20.000 Level 7	40.000 Level 8	60.000 Level 9	150.000 Level 10					
23 Chloroform	+++++	1.25587	1.25990	1.20456	1.28032	1.22470			
	1.17502	1.24105	1.18718	+++++			1.22857	3.035	
24 Carbon Tetrachloride	+++++	0.49098	0.43933	0.44593	0.45586	0.45510			
	0.44244	0.45472	0.44149	+++++			0.45323	3.672	
26 1,1,1-Trichloroethane	+++++	1.12112	1.07721	1.03188	1.07844	1.04854			
	1.00608	1.06652	1.01845	+++++			1.05603	3.551	
28 1,1-Dichloropropene	+++++	0.56966	0.57582	0.56598	0.58090	0.56050			
	0.56640	0.57846	0.56294	+++++			0.57008	1.315	
29 2-Butanone	+++++	+++++	+++++	+++++	0.09895	0.08284			
	0.08063	0.08392	0.08125	0.04117			0.07813	24.762	<-
30 Benzene	+++++	1.71300	1.72007	1.72483	1.77772	1.71886			
	1.66324	1.64071	1.51655	+++++			1.68437	4.715	
33 1,2-Dichloroethane	+++++	0.42650	0.45597	0.42545	0.42330	0.41192			
	0.41533	0.42286	0.41303	+++++			0.42429	3.300	
27 Allyl Chloride	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++	+++++			+++++	+++++	<-
34 Trichloroethene	+++++	0.36692	0.37444	0.36869	0.37757	0.36456			
	0.35998	0.37131	0.35964	+++++			0.36789	1.754	

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAR-2010 12:04
End Cal Date : 09-MAR-2010 16:45
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/nt5.i/09MAR10.b/8260c030910L.m
Cal Date : 09-Mar-2010 18:24 paul
Curve Type : Average

Compound	0.10000 Level 1	0.20000 Level 2	0.50000 Level 3	1.000 Level 4	2.000 Level 5	10.000 Level 6	RRF	% RSD	
	20.000 Level 7	40.000 Level 8	60.000 Level 9	150.000 Level 10					
37 Dibromomethane	+++++	0.16072	0.16925	0.15654	0.16153	0.15831			
	0.15536	0.16097	0.15962	+++++			0.16029	2.638	
38 1,2-Dichloropropane	+++++	0.46666	0.42947	0.43084	0.44314	0.43386			
	0.43105	0.44027	0.42582	+++++			0.43764	2.979	
40 2-Chloroethyl Vinyl Ether	+++++	+++++	+++++	0.16740	0.17878	0.17523			
	0.17885	0.18274	0.18743	+++++			0.17841	3.817	
39 Bromodichloromethane	+++++	0.48161	0.45203	0.43795	0.46581	0.45757			
	0.45673	0.46745	0.45513	+++++			0.45929	2.781	
36 Methyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++	+++++			+++++	+++++	<-
41 Cis 1,3-dichloropropene	+++++	0.61324	0.61812	0.62692	0.64486	0.63159			
	0.62847	0.63300	0.61010	+++++			0.62579	1.832	
43 Toluene	+++++	1.08010	1.04779	1.00911	1.06685	1.03687			
	1.02037	1.02272	0.96977	+++++			1.03170	3.361	
44 Tetrachloroethene	+++++	0.38488	0.36256	0.38122	0.39491	0.37965			
	0.36972	0.37832	0.36655	+++++			0.37723	2.797	
45 4-Methyl-2-Pentanone	+++++	+++++	+++++	+++++	0.10014	0.08300			
	0.08536	0.08845	0.08982	0.08908			0.08931	6.603	

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAR-2010 12:04
End Cal Date : 09-MAR-2010 16:45
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/nt5.i/09MAR10.b/8260c030910L.m
Cal Date : 09-Mar-2010 18:24 paul
Curve Type : Average

Compound	0.10000 Level 1 / 20.000 Level 7	0.20000 Level 2 / 40.000 Level 8	0.50000 Level 3 / 60.000 Level 9	1.000 Level 4 / 150.000 Level 10	2.000 Level 5	10.000 Level 6	RRF	% RSD
46 Trans 1,3-Dichloropropene	+++++	0.52383	0.49294	0.46906	0.48781	0.49767		
	0.49985	0.51339	0.49647	+++++			0.49763	3.289
47 1,1,2-Trichloroethane	+++++	0.24878	0.24428	0.23856	0.25113	0.24304		
	0.23952	0.24277	0.23915	+++++			0.24340	1.880
48 Chlorodibromomethane	+++++	0.28303	0.28377	0.29392	0.30583	0.29600		
	0.29805	0.30709	0.30072	+++++			0.29605	3.043
49 1,3-Dichloropropane	+++++	0.53909	0.55547	0.54299	0.55946	0.55235		
	0.54378	0.56061	0.53800	+++++			0.54897	1.658
50 1,2-Dibromoethane	+++++	0.22355	0.20714	0.21383	0.22416	0.21478		
	0.21791	0.22584	0.22124	+++++			0.21856	2.915
51 2-Hexanone	+++++	+++++	+++++	+++++	0.17351	0.16322		
	0.16189	0.16902	0.17401	0.16922			0.16848	3.001
53 Chlorobenzene	+++++	1.15520	1.20187	1.16245	1.19246	1.16177		
	1.13403	1.14227	1.07902	+++++			1.15363	3.286
54 Ethyl Benzene	+++++	2.11116	2.25586	2.29611	2.29323	2.26393		
	2.15454	2.07365	1.82133	+++++			2.15872	7.445
55 1,1,1,2-Tetrachloroethane	+++++	0.35225	0.38692	0.37153	0.37467	0.37107		
	0.36407	0.37763	0.36466	+++++			0.37035	2.791

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Cal Date : 09-Mar-2010 18:24 paul
Curve Type : Average

Compound	0.10000 Level 1	0.20000 Level 2	0.50000 Level 3	1.000 Level 4	2.000 Level 5	10.000 Level 6	RRF	% RSD
	20.000 Level 7	40.000 Level 8	60.000 Level 9	150.000 Level 10				
56 m,p-xylene	0.77284	0.75719	0.80971	0.82126	0.84870	0.83878		
	0.80870	0.80035	0.72158	+++++			0.79768	5.086
57 o-Xylene	+++++	0.78193	0.76269	0.79911	0.79375	0.81235		
	0.79224	0.81308	0.77179	+++++			0.79087	2.277
59 Bromoform	+++++	0.28148	0.29477	0.29845	0.31113	0.29292		
	0.28487	0.29322	0.28703	+++++			0.29298	3.149
58 Styrene	+++++	1.22645	1.18918	1.21131	1.28807	1.32230		
	1.31683	1.32483	1.21871	+++++			1.26221	4.470
60 Isopropyl Benzene	+++++	4.27844	4.29315	4.61172	4.80006	4.43879		
	4.24175	3.99232	3.48744	+++++			4.26796	9.360
62 Bromobenzene	+++++	0.94174	0.83013	0.85743	0.88872	0.82803		
	0.80639	0.81906	0.78148	+++++			0.84412	6.028
63 N-Propyl Benzene	+++++	5.27544	5.48070	5.48106	5.67257	5.37950		
	5.05995	4.64315	3.91499	+++++			5.11342	11.307
64 1,1,2,2-Tetrachloroethane	+++++	0.72161	0.71873	0.66425	0.68775	0.64045		
	0.62306	0.63891	0.61455	+++++			0.66367	6.286
65 2-Chloro Toluene	+++++	3.07843	3.22385	3.06983	3.30925	3.18894		
	3.03310	2.96082	2.69340	+++++			3.06970	6.159

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Curve Type : Average

Compound	0.10000 Level 1	0.20000 Level 2	0.50000 Level 3	1.000 Level 4	2.000 Level 5	10.000 Level 6	RRF	% RSD
	20.000 Level 7	40.000 Level 8	60.000 Level 9	150.000 Level 10				
66 1,2,3-Trichloropropane	+++++	+++++	0.19047	0.16474	0.16997	0.15572		
	0.15415	0.15645	0.14950	+++++			0.16300	8.541
67 1,3,5-Trimethyl Benzene	+++++	3.44345	3.59053	3.58062	3.67904	3.58681		
	3.44652	3.34201	2.99685	+++++			3.45823	6.226
68 Trans-1,4-Dichloro 2-Butene	+++++	+++++	+++++	0.21976	0.22873	0.19187		
	0.18015	0.19740	0.20180	+++++			0.20328	8.858
69 4-Chloro Toluene	+++++	3.27404	3.32078	3.18709	3.35792	3.18592		
	3.10053	3.01492	2.72816	+++++			3.14617	6.458
70 T-Butyl Benzene	+++++	2.95027	2.89011	3.00526	3.08180	2.97025		
	2.86789	2.83766	2.62700	+++++			2.90378	4.712
71 1,2,4-Trimethylbenzene	+++++	3.57979	3.53493	3.56024	3.66670	3.55094		
	3.45276	3.37199	3.01589	+++++			3.46665	5.828
72 S-Butyl Benzene	+++++	4.80003	4.70832	4.62263	4.78069	4.60793		
	4.37580	4.13890	3.61398	+++++			4.45603	9.113
73 4-Isopropyl Toluene	+++++	3.41946	3.62127	3.48136	3.76202	3.55608		
	3.44715	3.34950	3.02173	+++++			3.45732	6.308
74 1,3-Dichlorobenzene	+++++	1.93096	1.68757	1.73627	1.78032	1.67785		
	1.63535	1.68143	1.60993	+++++			1.71746	5.903

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Curve Type : Average

Compound	0.10000 Level 1	0.20000 Level 2	0.50000 Level 3	1.000 Level 4	2.000 Level 5	10.000 Level 6	RRF	% RSD	
	20.000 Level 7	40.000 Level 8	60.000 Level 9	150.000 Level 10					
76 1,4-Dichlorobenzene	+++++	2.13202	1.78966	1.72112	1.81537	1.68650			
	1.64056	1.68997	1.61752	+++++			1.76159	9.321	
77 N-Butyl Benzene	+++++	3.70522	3.51729	3.41320	3.73993	3.50085			
	3.36810	3.32851	2.96991	+++++			3.44287	7.023	
79 1,2-Dichlorobenzene	+++++	1.77167	1.63320	1.52010	1.59592	1.49017			
	1.46330	1.52392	1.46322	+++++			1.55769	6.772	
81 1,2-Dibromo 3-Chloropropane	+++++	+++++	0.11616	0.11872	0.12462	0.10173			
	0.10322	0.10884	0.10750	+++++			0.11154	7.617	
80 Cyclohexanone	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++	+++++			+++++	+++++	<-
82 Hexachloro 1,3-Butadiene	+++++	+++++	0.40959	0.34656	0.39338	0.33864			
	0.33460	0.35357	0.34520	+++++			0.36022	8.106	
83 1,2,4-Trichlorobenzene	+++++	+++++	1.01196	0.92937	0.98852	0.87179			
	0.88798	0.94565	0.92108	+++++			0.93662	5.394	
84 Naphthalene	+++++	+++++	2.07681	1.85412	2.01782	1.82004			
	1.87944	1.97735	1.88737	+++++			1.93042	4.902	
85 1,2,3-Trichlorobenzene	+++++	+++++	0.74062	0.75147	0.80366	0.70399			
	0.71583	0.75997	0.73597	+++++			0.74450	4.366	

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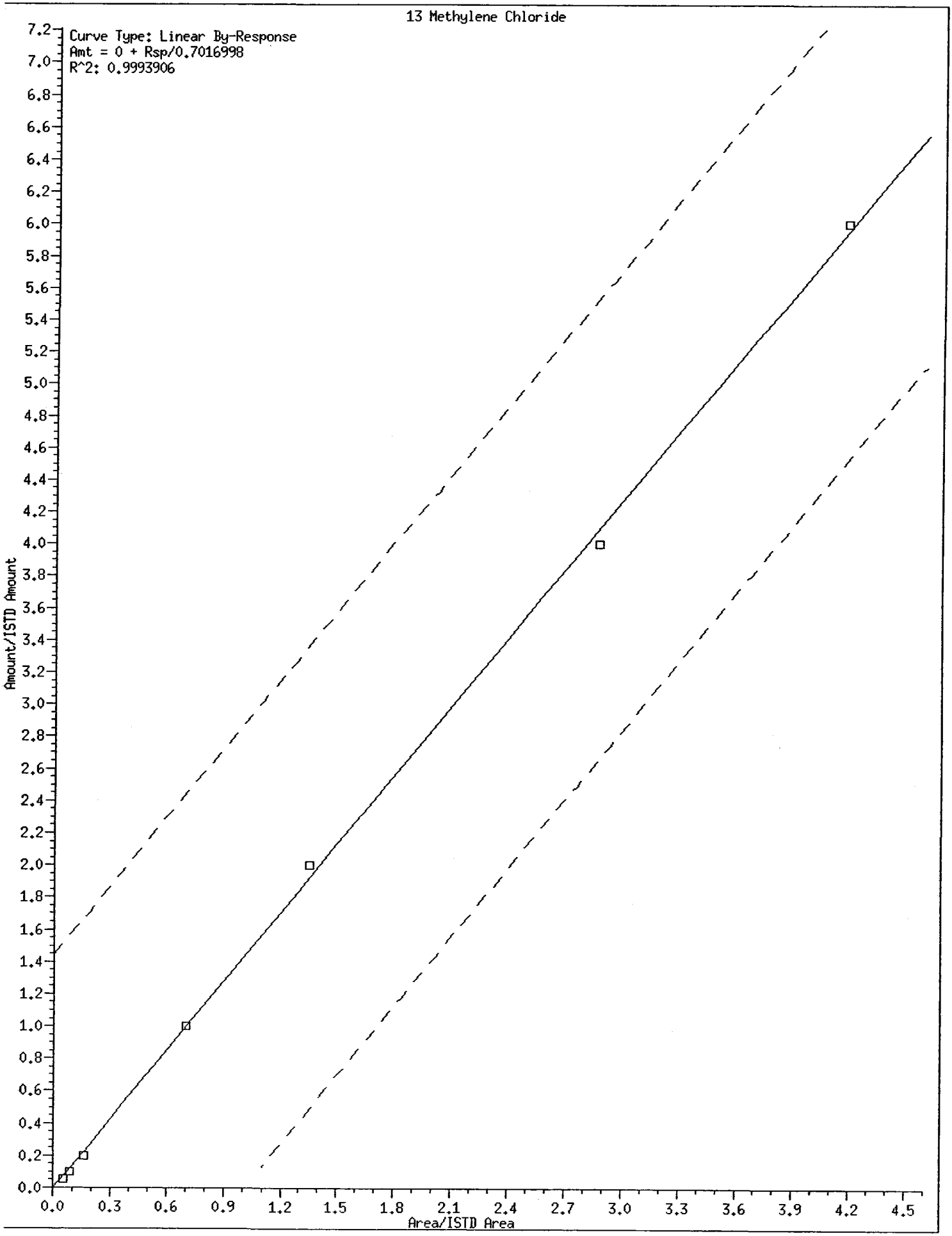
Curve Type : Average

Compound	0.10000 Level 1	0.20000 Level 2	0.50000 Level 3	1.000 Level 4	2.000 Level 5	10.000 Level 6	RRF	% RSD
	20.000 Level 7	40.000 Level 8	60.000 Level 9	150.000 Level 10				
$ 25 Dibromofluoromethane	0.46375	0.47074	0.47650	0.46968	0.46975	0.46997		
	0.46413	0.46751	0.46313	0.45503			0.46702	1.247
$ 31 d4-1,2-Dichloroethane	0.53088	0.52746	0.55594	0.54368	0.52700	0.52076		
	0.52866	0.53163	0.52168	0.52599			0.53137	2.016
$ 42 d8-Toluene	1.16870	1.16684	1.18000	1.15414	1.15452	1.15705		
	1.16890	1.14986	1.15473	1.17256			1.16273	0.854
$ 61 4-Bromofluorobenzene	0.45561	0.47957	0.46135	0.48477	0.47264	0.48733		
	0.47791	0.48662	0.49166	0.46184			0.47593	2.641
$ 78 d4-1,2-Dichlorobenzene	0.87271	0.87629	0.89252	0.88452	0.87399	0.86881		
	0.86695	0.89714	0.88727	0.88425			0.88044	1.160


13 Methylene Chloride
Curve Type: Linear By-Response
Amt = 0 + Rsp/0.7016998
R^2: 0.9993906
Amount/ISTD Amount
Area/ISTD Area
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
1.8
2.0
2.2
2.4
2.6
2.8
3.0
3.2
3.4
3.6
3.8
4.0
4.2
4.4
4.6
4.8
5.0
5.2
5.4
5.6
5.8
6.0
6.2
6.4
6.6
6.8
7.0
7.2
0.0
0.3
0.6
0.9
1.2
1.5
1.8
2.1
2.4
2.7
3.0
3.3
3.6
3.9
4.2
4.5

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAR-2010 12:04
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Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/nt5.i/09MAR10.b/8260c030910L.m
Cal Date : 09-Mar-2010 18:24 paul

Calibration File Names:
Level 1: /chem1/nt5.i/09MAR10.b/03091006.d
Level 2: /chem1/nt5.i/09MAR10.b/03091007.d
Level 3: /chem1/nt5.i/09MAR10.b/03091008.d
Level 4: /chem1/nt5.i/09MAR10.b/03091009.d
Level 5: /chem1/nt5.i/09MAR10.b/03091017.d
Level 6: /chem1/nt5.i/09MAR10.b/03091011.d
Level 7: /chem1/nt5.i/09MAR10.b/03091012.d
Level 8: /chem1/nt5.i/09MAR10.b/03091013.d
Level 9: /chem1/nt5.i/09MAR10.b/03091014.d
Level 10: /chem1/nt5.i/09MAR10.b/03091015.d

Compound	0.1000 Level 1	0.2000 Level 2	0.5000 Level 3	1 Level 4	2 Level 5	10 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	20 Level 7	40 Level 8	60 Level 9	150 Level 10								
1 Dichlorodifluoromethane	+++++	0.30127	0.37979	0.42125	0.43568	0.39624						
	0.37657	0.43721	0.42831	+++++			AVRG		0.39704		11.48709	
172 Hexane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+00		0.000e+00	<-
2 Chloromethane	+++++	0.81734	0.77692	0.76267	0.80520	0.78593						
	0.76066	0.83175	0.79665	+++++			AVRG		0.79214		3.20938	

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Compound	0.1000 Level 1	0.2000 Level 2	0.5000 Level 3	1 Level 4	2 Level 5	10 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	20 Level 7	40 Level 8	60 Level 9	150 Level 10							
3 Vinyl Chloride	+++++	0.92665	0.86837	0.87307	0.90097	0.83747					
	0.81385	0.89086	0.86493	+++++			AVRG		0.87202		4.07067
4 Bromomethane	+++++	0.48097	0.44724	0.43276	0.35584	0.43693					
	0.45217	0.51407	0.51724	+++++			AVRG		0.45465		11.38605
5 Chloroethane	+++++	0.48942	0.48686	0.61756	0.63413	0.56653					
	0.53518	0.57703	0.56660	+++++			AVRG		0.55916		9.58981
6 Trichlorofluoromethane	+++++	0.76162	0.88873	0.88299	0.90835	0.83694					
	0.82426	0.88810	0.85110	+++++			AVRG		0.85526		5.56704
7 1,1-Dichloroethene	+++++	0.57588	0.66484	0.65302	0.67683	0.63483					
	0.61736	0.65972	0.63652	+++++			AVRG		0.63987		5.01003
8 Carbon Disulfide	+++++	2.45193	2.52273	2.43695	2.65046	2.48058					
	2.39254	2.46072	2.34509	+++++			AVRG		2.46762		3.70533
9 112Trichloro122Trifluoroethan	+++++	0.67404	0.68170	0.68516	0.71072	0.65646					
	0.63560	0.68232	0.68274	+++++			AVRG		0.67609		3.27174

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Compound	0.1000 Level 1	0.2000 Level 2	0.5000 Level 3	1 Level 4	2 Level 5	10 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	20 Level 7	40 Level 8	60 Level 9	150 Level 10							
10 Iodomethane	+++++	+++++	0.76540	0.78143	0.98999	0.78886					
	0.74836	0.78835	0.77729	+++++			AVRG		0.80567		10.24259
11 Bromoethane	+++++	0.47642	0.44243	0.45907	0.46949	0.47919					
	0.45877	0.49003	0.48837	+++++			AVRG		0.47047		3.47306
12 Acrolein	+++++	+++++	+++++	+++++	0.02936	0.02933					
	0.02653	0.03005	0.03001	0.03071			AVRG		0.02933		4.99850
13 Methylene Chloride	+++++	+++++	30020	48150	84638	379499					
	741894	1562470	2330549	+++++			LINR	0.000e+00	0.70170		0.99939
14 Acetone	+++++	+++++	+++++	+++++	0.11907	0.10320					
	0.09368	0.09486	0.09607	0.10051			AVRG		0.10123		9.33718
15 Trans-1,2-Dichloroethene	+++++	0.73840	0.73192	0.70529	0.71885	0.70141					
	0.67826	0.72987	0.70220	+++++			AVRG		0.71327		2.82331
16 Methyl tert butyl ether	1.56342	1.51920	1.59294	1.61838	1.64335	1.60861					
	1.56018	2.14649	1.52557	+++++			AVRG		1.64202		11.79517

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Compound	0.1000 Level 1	0.2000 Level 2	0.5000 Level 3	1 Level 4	2 Level 5	10 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	20 Level 7	40 Level 8	60 Level 9	150 Level 10							
17 1,1-Dichloroethane	+++++	1.39471	1.46410	1.47060	1.47442	1.41708					
	1.37133	1.43520	1.37535	+++++			AVRG		1.42535		2.96233
18 Acrylonitrile	+++++	+++++	+++++	0.14760	0.13449	0.13317					
	0.13848	0.14754	0.14650	+++++			AVRG		0.14130		4.75811
19 Vinyl Acetate	+++++	+++++	+++++	0.85400	0.93160	0.90172					
	0.89568	0.95643	0.95394	+++++			AVRG		0.91556		4.30778
20 Cis-1,2-Dichloroethene	+++++	0.74723	0.74110	0.74403	0.76714	0.74819					
	0.72502	0.75986	0.73275	+++++			AVRG		0.74566		1.81914
21 2,2-Dichloropropane	+++++	1.18380	1.14779	1.15748	1.19222	1.09498					
	1.07099	1.10528	1.05683	+++++			AVRG		1.12617		4.55197
22 Bromochloromethane	0.29822	0.29105	0.28199	0.28344	0.28059	0.27483					
	0.27220	0.28443	0.28100	+++++			AVRG		0.28308		2.77291
23 Chloroform	+++++	1.25587	1.25990	1.20456	1.28032	1.22470					
	1.17502	1.24105	1.18718	+++++			AVRG		1.22857		3.03499

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Compound	0.1000 Level 1	0.2000 Level 2	0.5000 Level 3	1 Level 4	2 Level 5	10 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	20 Level 7	40 Level 8	60 Level 9	150 Level 10								
24 Carbon Tetrachloride	+++++	0.49098	0.43933	0.44593	0.45586	0.45510						
	0.44244	0.45472	0.44149	+++++			AVRG		0.45323		3.67181	
26 1,1,1-Trichloroethane	+++++	1.12112	1.07721	1.03188	1.07844	1.04854						
	1.00608	1.06652	1.01845	+++++			AVRG		1.05603		3.55095	
28 1,1-Dichloropropene	+++++	0.56966	0.57582	0.56598	0.58090	0.56050						
	0.56640	0.57846	0.56294	+++++			AVRG		0.57008		1.31500	
29 2-Butanone	+++++	+++++	+++++	+++++	0.09895	0.08284						
	0.08063	0.08392	0.08125	+++++			AVRG		0.08552		8.90860	
30 Benzene	+++++	1.71300	1.72007	1.72483	1.77772	1.71886						
	1.66324	1.64071	1.51655	+++++			AVRG		1.68437		4.71496	
33 1,2-Dichloroethane	+++++	0.42650	0.45597	0.42545	0.42330	0.41192						
	0.41533	0.42286	0.41303	+++++			AVRG		0.42429		3.30037	
27 Allyl Chloride	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+00		0.000e+00	<-

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAR-2010 12:04
End Cal Date : 09-MAR-2010 16:45
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/nt5.i/09MAR10.b/8260c030910L.m
Cal Date : 09-Mar-2010 18:24 paul

Compound	0.1000 Level 1 / 20 Level 7	0.2000 Level 2 / 40 Level 8	0.5000 Level 3 / 60 Level 9	1 Level 4 / 150 Level 10	2 Level 5	10 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
34 Trichloroethene	+++++	0.36692	0.37444	0.36869	0.37757	0.36456						
	0.35998	0.37131	0.35964	+++++			AVRG		0.36789		1.75436	
37 Dibromomethane	+++++	0.16072	0.16925	0.15654	0.16153	0.15831						
	0.15536	0.16097	0.15962	+++++			AVRG		0.16029		2.63843	
38 1,2-Dichloropropane	+++++	0.46666	0.42947	0.43084	0.44314	0.43386						
	0.43105	0.44027	0.42582	+++++			AVRG		0.43764		2.97905	
40 2-Chloroethyl Vinyl Ether	+++++	+++++	+++++	0.16740	0.17878	0.17523						
	0.17885	0.18274	0.18743	+++++			AVRG		0.17841		3.81666	
39 Bromodichloromethane	+++++	0.48161	0.45203	0.43795	0.46581	0.45757						
	0.45673	0.46745	0.45513	+++++			AVRG		0.45929		2.78103	
36 Methyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+00		0.000e+00	<-
41 Cis 1,3-dichloropropene	+++++	0.61324	0.61812	0.62692	0.64486	0.63159						
	0.62847	0.63300	0.61010	+++++			AVRG		0.62579		1.83204	

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAR-2010 12:04
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Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/nt5.i/09MAR10.b/8260c030910L.m
Cal Date : 09-Mar-2010 18:24 paul

Compound	0.1000 Level 1	0.2000 Level 2	0.5000 Level 3	1 Level 4	2 Level 5	10 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	20 Level 7	40 Level 8	60 Level 9	150 Level 10							
43 Toluene	+++++	1.08010	1.04779	1.00911	1.06685	1.03687					
	1.02037	1.02272	0.96977	+++++			AVRG		1.03170		3.36135
44 Tetrachloroethene	+++++	0.38488	0.36256	0.38122	0.39491	0.37965					
	0.36972	0.37832	0.36655	+++++			AVRG		0.37723		2.79724
45 4-Methyl-2-Pentanone	+++++	+++++	+++++	+++++	0.10014	0.08300					
	0.08536	0.08845	0.08982	0.08908			AVRG		0.08931		6.60313
46 Trans 1,3-Dichloropropene	+++++	0.52383	0.49294	0.46906	0.48781	0.49767					
	0.49985	0.51339	0.49647	+++++			AVRG		0.49763		3.28950
47 1,1,2-Trichloroethane	+++++	0.24878	0.24428	0.23856	0.25113	0.24304					
	0.23952	0.24277	0.23915	+++++			AVRG		0.24340		1.87996
48 Chlorodibromomethane	+++++	0.28303	0.28377	0.29392	0.30583	0.29600					
	0.29805	0.30709	0.30072	+++++			AVRG		0.29605		3.04346
49 1,3-Dichloropropane	+++++	0.53909	0.55547	0.54299	0.55946	0.55235					
	0.54378	0.56061	0.53800	+++++			AVRG		0.54897		1.65783

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAR-2010 12:04
End Cal Date : 09-MAR-2010 16:45
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/nt5.i/09MAR10.b/8260c030910L.m
Cal Date : 09-Mar-2010 18:24 paul

Compound	0.1000 Level 1	0.2000 Level 2	0.5000 Level 3	1 Level 4	2 Level 5	10 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	20 Level 7	40 Level 8	60 Level 9	150 Level 10							
50 1,2-Dibromoethane	+++++	0.22355	0.20714	0.21383	0.22416	0.21478					
	0.21791	0.22584	0.22124	+++++			AVRG		0.21856		2.91460
51 2-Hexanone	+++++	+++++	+++++	+++++	0.17351	0.16322					
	0.16189	0.16902	0.17401	0.16922			AVRG		0.16848		3.00071
53 Chlorobenzene	+++++	1.15520	1.20187	1.16245	1.19246	1.16177					
	1.13403	1.14227	1.07902	+++++			AVRG		1.15363		3.28639
54 Ethyl Benzene	+++++	2.11116	2.25586	2.29611	2.29323	2.26393					
	2.15454	2.07365	1.82133	+++++			AVRG		2.15872		7.44531
55 1,1,1,2-Tetrachloroethane	+++++	0.35225	0.38692	0.37153	0.37467	0.37107					
	0.36407	0.37763	0.36466	+++++			AVRG		0.37035		2.79060
56 m,p-xylene	0.77284	0.75719	0.80971	0.82126	0.84870	0.83878					
	0.80870	0.80035	0.72158	+++++			AVRG		0.79768		5.08619
57 o-Xylene	+++++	0.78193	0.76269	0.79911	0.79375	0.81235					
	0.79224	0.81308	0.77179	+++++			AVRG		0.79087		2.27743

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAR-2010 12:04
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Integrator : HP RTE
Method file : /chem1/nt5.i/09MAR10.b/8260c030910L.m
Cal Date : 09-Mar-2010 18:24 paul

Compound	0.1000 Level 1	0.2000 Level 2	0.5000 Level 3	1 Level 4	2 Level 5	10 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	20 Level 7	40 Level 8	60 Level 9	150 Level 10							
59 Bromoform	+++++	0.28148	0.29477	0.29845	0.31113	0.29292					
	0.28487	0.29322	0.28703	+++++			AVRG		0.29298		3.14906
58 Styrene	+++++	1.22645	1.18918	1.21131	1.28807	1.32230					
	1.31683	1.32483	1.21871	+++++			AVRG		1.26221		4.46957
60 Isopropyl Benzene	+++++	4.27844	4.29315	4.61172	4.80006	4.43879					
	4.24175	3.99232	3.48744	+++++			AVRG		4.26796		9.36007
62 Bromobenzene	+++++	0.94174	0.83013	0.85743	0.88872	0.82803					
	0.80639	0.81906	0.78148	+++++			AVRG		0.84412		6.02835
63 N-Propyl Benzene	+++++	5.27544	5.48070	5.48106	5.67257	5.37950					
	5.05995	4.64315	3.91499	+++++			AVRG		5.11342		11.30699
64 1,1,2,2-Tetrachloroethane	+++++	0.72161	0.71873	0.66425	0.68775	0.64045					
	0.62306	0.63891	0.61455	+++++			AVRG		0.66367		6.28604
65 2-Chloro Toluene	+++++	3.07843	3.22385	3.06983	3.30925	3.18894					
	3.03310	2.96082	2.69340	+++++			AVRG		3.06970		6.15929

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAR-2010 12:04
End Cal Date : 09-MAR-2010 16:45
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Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/nt5.i/09MAR10.b/8260c030910L.m
Cal Date : 09-Mar-2010 18:24 paul

Compound	0.1000 Level 1 / 20 Level 7	0.2000 Level 2 / 40 Level 8	0.5000 Level 3 / 60 Level 9	1 Level 4 / 150 Level 10	2 Level 5	10 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
66 1,2,3-Trichloropropane	+++++	+++++	0.19047	0.16474	0.16997	0.15572					
	0.15415	0.15645	0.14950	+++++			AVRG		0.16300		8.54134
67 1,3,5-Trimethyl Benzene	+++++	3.44345	3.59053	3.58062	3.67904	3.58681					
	3.44652	3.34201	2.99685	+++++			AVRG		3.45823		6.22600
68 Trans-1,4-Dichloro 2-Butene	+++++	+++++	+++++	0.21976	0.22873	0.19187					
	0.18015	0.19740	0.20180	+++++			AVRG		0.20328		8.85764
69 4-Chloro Toluene	+++++	3.27404	3.32078	3.18709	3.35792	3.18592					
	3.10053	3.01492	2.72816	+++++			AVRG		3.14617		6.45802
70 T-Butyl Benzene	+++++	2.95027	2.89011	3.00526	3.08180	2.97025					
	2.86789	2.83766	2.62700	+++++			AVRG		2.90378		4.71154
71 1,2,4-Trimethylbenzene	+++++	3.57979	3.53493	3.56024	3.66670	3.55094					
	3.45276	3.37199	3.01589	+++++			AVRG		3.46665		5.82755
72 S-Butyl Benzene	+++++	4.80003	4.70832	4.62263	4.78069	4.60793					
	4.37580	4.13890	3.61398	+++++			AVRG		4.45603		9.11290

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAR-2010 12:04
End Cal Date : 09-MAR-2010 16:45
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/nt5.i/09MAR10.b/8260c030910L.m
Cal Date : 09-Mar-2010 18:24 paul

Compound	0.1000 Level 1	0.2000 Level 2	0.5000 Level 3	1 Level 4	2 Level 5	10 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	20 Level 7	40 Level 8	60 Level 9	150 Level 10								
73 4-Isopropyl Toluene	+++++	3.41946	3.62127	3.48136	3.76202	3.55608						
	3.44715	3.34950	3.02173	+++++			AVRG		3.45732		6.30813	
74 1,3-Dichlorobenzene	+++++	1.93096	1.68757	1.73627	1.78032	1.67785						
	1.63535	1.68143	1.60993	+++++			AVRG		1.71746		5.90322	
76 1,4-Dichlorobenzene	+++++	2.13202	1.78966	1.72112	1.81537	1.68650						
	1.64056	1.68997	1.61752	+++++			AVRG		1.76159		9.32050	
77 N-Butyl Benzene	+++++	3.70522	3.51729	3.41320	3.73993	3.50085						
	3.36810	3.32851	2.96991	+++++			AVRG		3.44287		7.02272	
79 1,2-Dichlorobenzene	+++++	1.77167	1.63320	1.52010	1.59592	1.49017						
	1.46330	1.52392	1.46322	+++++			AVRG		1.55769		6.77221	
81 1,2-Dibromo 3-Chloropropane	+++++	+++++	0.11616	0.11872	0.12462	0.10173						
	0.10322	0.10884	0.10750	+++++			AVRG		0.11154		7.61673	
80 Cyclohexanone	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+00		0.000e+00	<-

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAR-2010 12:04
End Cal Date : 09-MAR-2010 16:45
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/nt5.i/09MAR10.b/8260c030910L.m
Cal Date : 09-Mar-2010 18:24 paul

Compound	0.1000 Level 1 / 20 Level 7	0.2000 Level 2 / 40 Level 8	0.5000 Level 3 / 60 Level 9	1 Level 4 / 150 Level 10	2 Level 5	10 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
82 Hexachloro 1,3-Butadiene	+++++	+++++	0.40959	0.34656	0.39338	0.33864					
	0.33460	0.35357	0.34520	+++++			AVRG		0.36022		8.10579
83 1,2,4-Trichlorobenzene	+++++	+++++	1.01196	0.92937	0.98852	0.87179					
	0.88798	0.94565	0.92108	+++++			AVRG		0.93662		5.39401
84 Naphthalene	+++++	+++++	2.07681	1.85412	2.01782	1.82004					
	1.87944	1.97735	1.88737	+++++			AVRG		1.93042		4.90206
85 1,2,3-Trichlorobenzene	+++++	+++++	0.74062	0.75147	0.80366	0.70399					
	0.71583	0.75997	0.73597	+++++			AVRG		0.74450		4.36567
$ 25 Dibromofluoromethane	0.46375	0.47074	0.47650	0.46968	0.46975	0.46997					
	0.46413	0.46751	0.46313	0.45503			AVRG		0.46702		1.24702
31 d4-1,2-Dichloroethane	0.53088	0.52746	0.55594	0.54368	0.52700	0.52076					
	0.52866	0.53163	0.52168	0.52599			AVRG		0.53137		2.01599
42 d8-Toluene	1.16870	1.16684	1.18000	1.15414	1.15452	1.15705					
	1.16890	1.14986	1.15473	1.17256			AVRG		1.16273		0.85445

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAR-2010 12:04
End Cal Date : 09-MAR-2010 16:45
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/nt5.i/09MAR10.b/8260c030910L.m
Cal Date : 09-Mar-2010 18:24 paul

Compound	0.1000 Level 1	0.2000 Level 2	0.5000 Level 3	1 Level 4	2 Level 5	10 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	20 Level 7	40 Level 8	60 Level 9	150 Level 10							
$ 61 4-Bromofluorobenzene	0.45561	0.47957	0.46135	0.48477	0.47264	0.48733					
	0.47791	0.48662	0.49166	0.46184			AVRG		0.47593		2.64054
$ 78 d4-1,2-Dichlorobenzene	0.87271	0.87629	0.89252	0.88452	0.87399	0.86881					
	0.86695	0.89714	0.88727	0.88425			AVRG		0.88044		1.15969

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAR-2010 12:04
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Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/nt5.i/09MAR10.b/8260c030910L.m
Cal Date : 09-Mar-2010 18:24 paul

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Linear	Amt = b + Rsp/m1	Response

Data File: /chem1/nt5.i/09MAR10.b/03091006.d
Report Date: 10-Mar-2010 09:59

Analytical Resources, Inc.

SW8260C 10 ML

Data file : /chem1/nt5.i/09MAR10.b/03091006.d
Lab Smp Id: 0.1 0309 Client Smp ID: 0.1 ppb
Inj Date : 09-MAR-2010 12:04
Operator : PC Inst ID: nt5.i
Smp Info : 0.1 0309,10,10,0,
Misc Info : 10-
Comment :
Method : /chem1/nt5.i/09MAR10.b/8260c030910L.m
Meth Date : 10-Mar-2010 09:57 paul Quant Type: ISTD
Cal Date : 09-MAR-2010 12:04 Cal File: 03091006.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	10.00000	Purge Volume (mL)
Sa	10.00000	Sample Amount (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
	12 Acrolein	56	2.318	2.318	(0.489)	465	0.10000	0.2958
	14 Acetone	43	2.590	2.584	(0.546)	2084	0.10000	0.3842
	11 Bromoethane	108	2.250	2.250	(0.475)	2945	0.10000	0.1168
	13 Methylene Chloride	84	2.528	2.527	(0.533)	13965	0.10000	0.3714
	18 Acrylonitrile	53	3.353	3.348	(0.708)	804	0.10000	0.1062
	16 Methyl tert butyl ether	73	2.810	2.799	(0.593)	16755	0.20000	0.1904(M)
	15 Trans-1,2-Dichloroethene	96	2.675	2.675	(0.564)	4071	0.10000	0.1065
	20 Cis-1,2-Dichloroethene	96	3.823	3.823	(0.807)	4096	0.10000	0.1025
*	32 Pentafluorobenzene	168	4.739	4.739	(1.000)	535844	10.0000	
	22 Bromochloromethane	128	4.010	4.004	(0.846)	3196	0.20000	0.2107
$	25 Dibromofluoromethane	111	4.264	4.264	(0.900)	248499	10.0000	9.930
	26 1,1,1-Trichloroethane	97	4.270	4.264	(0.901)	6152	0.10000	0.1087
	28 1,1-Dichloropropene	75	4.377	4.383	(0.844)	6491	0.10000	0.1145
$	31 d4-1,2-Dichloroethane	65	4.728	4.728	(0.998)	284469	10.0000	9.991
	30 Benzene	78	4.604	4.604	(0.888)	17023	0.10000	0.1016
*	35 1,4-Difluorobenzene	114	5.186	5.186	(1.000)	994707	10.0000	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
34 Trichloroethene	130	5.135	5.135	(0.990)	4018	0.10000	0.1098
38 1,2-Dichloropropane	63	5.582	5.577	(1.076)	4411	0.10000	0.1013
39 Bromodichloromethane	83	5.656	5.650	(1.091)	4594	0.10000	0.1006
37 Dibromomethane	93	5.480	5.486	(1.057)	1654	0.10000	0.1037
45 4-Methyl-2-Pentanone	58	6.753	6.742	(1.302)	984	0.10000	0.1108(T)
42 d8-Toluene	98	6.346	6.346	(1.224)	1162516	10.0000	10.051
46 Trans 1,3-Dichloropropene	75	6.759	6.753	(1.303)	5165	0.10000	0.1043
44 Tetrachloroethene	166	6.708	6.708	(0.877)	3469	0.10000	0.1036
52 d5-Chlorobenzene	117	7.647	7.647	(1.000)	887310	10.0000	
53 Chlorobenzene	112	7.664	7.664	(1.002)	11176	0.10000	0.1092
55 1,1,1,2-Tetrachloroethane	131	7.732	7.726	(1.011)	3424	0.10000	0.1042
56 m,p-xylene	106	7.839	7.839	(1.025)	13715	0.20000	0.1938
59 Bromoform	173	8.252	8.247	(0.850)	1336	0.10000	0.1168
64 1,1,2,2-Tetrachloroethane	83	8.920	8.920	(0.918)	2594	0.10000	0.1001
61 4-Bromofluorobenzene	95	8.711	8.710	(1.139)	404271	10.0000	9.573
68 Trans-1,4-Dichloro 2-Butene	53	Compound Not Detected.					
63 N-Propyl Benzene	91	8.846	8.852	(0.911)	20965	0.10000	0.1051
67 1,3,5-Trimethyl Benzene	105	9.039	9.039	(0.931)	13778	0.10000	0.1021
65 2-Chloro Toluene	91	8.971	8.965	(0.924)	13765	0.10000	0.1149
69 4-Chloro Toluene	91	9.118	9.118	(0.939)	14376	0.10000	0.1171
70 T-Butyl Benzene	119	9.310	9.310	(0.959)	12087	0.10000	0.1067
71 1,2,4-Trimethylbenzene	105	9.378	9.378	(0.966)	15936	0.10000	0.1178
72 S-Butyl Benzene	105	9.474	9.468	(0.976)	17928	0.10000	0.1031
73 4-Isopropyl Toluene	119	9.610	9.610	(0.990)	14336	0.10000	0.1062
74 1,3-Dichlorobenzene	146	9.638	9.638	(0.992)	9039	0.10000	0.1349
75 d4-1,4-Dichlorobenzene	152	9.712	9.712	(1.000)	390281	10.0000	
76 1,4-Dichlorobenzene	146	9.723	9.723	(1.001)	11086	0.10000	0.1612
77 N-Butyl Benzene	91	9.989	9.995	(1.029)	17307	0.10000	0.1288
78 d4-1,2-Dichlorobenzene	152	10.091	10.091	(1.039)	340603	10.0000	9.912
79 1,2-Dichlorobenzene	146	10.102	10.102	(1.040)	9435	0.10000	0.1552
81 1,2-Dibromo 3-Chloropropane	75	10.849	10.843	(1.117)	645	0.10000	0.1482
83 1,2,4-Trichlorobenzene	180	11.494	11.494	(1.183)	7574	0.10000	0.2072
82 Hexachloro 1,3-Butadiene	225	11.488	11.488	(1.183)	2083	0.10000	0.1482
84 Naphthalene	128	11.799	11.799	(1.215)	16657	0.10000	0.2211
85 1,2,3-Trichlorobenzene	180	11.969	11.974	(1.232)	6594	0.10000	0.2269

QC Flag Legend

T - Target compound detected outside RT window.
M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt5.i
Lab File ID: 03091006.d
Lab Smp Id: 0.1 0309
Analysis Type: VOA
Quant Type: ISTD
Operator: PC
Method File: /chem1/nt5.i/09MAR10.b/8260c030910L.m
Misc Info: 10-

Calibration Date: 09-MAR-2010
Calibration Time: 14:12
Client Smp ID: 0.1 ppb
Level: LOW
Sample Type: WATER

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
32 Pentafluorobenzen	526014	263007	1052028	535844	1.87
35 1,4-Difluorobenze	985179	492590	1970358	994707	0.97
52 d5-Chlorobenzene	845025	422512	1690050	887310	5.00
75 d4-1,4-Dichlorobe	383446	191723	766892	390281	1.78

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
32 Pentafluorobenzen	4.74	4.24	5.24	4.74	0.00
35 1,4-Difluorobenze	5.19	4.69	5.69	5.19	0.00
52 d5-Chlorobenzene	7.65	7.15	8.15	7.65	0.00
75 d4-1,4-Dichlorobe	9.71	9.21	10.21	9.71	0.00

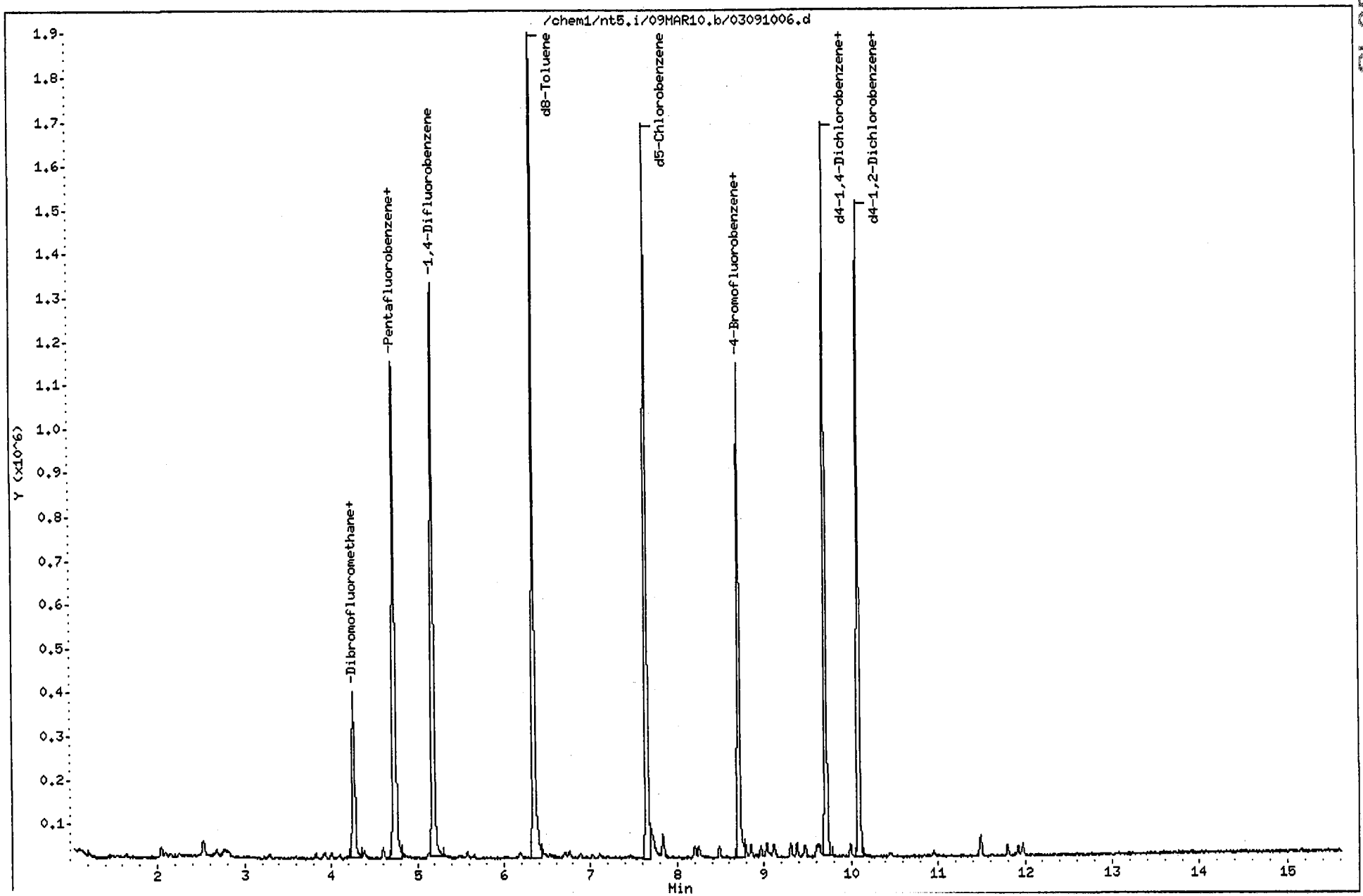
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem1/nt5.i/09MAR10.b/03091006.d
Date : 09-MAR-2010 12:04
Client ID: 0.1 ppb
Sample Info: 0.1 0309,10,10,0,

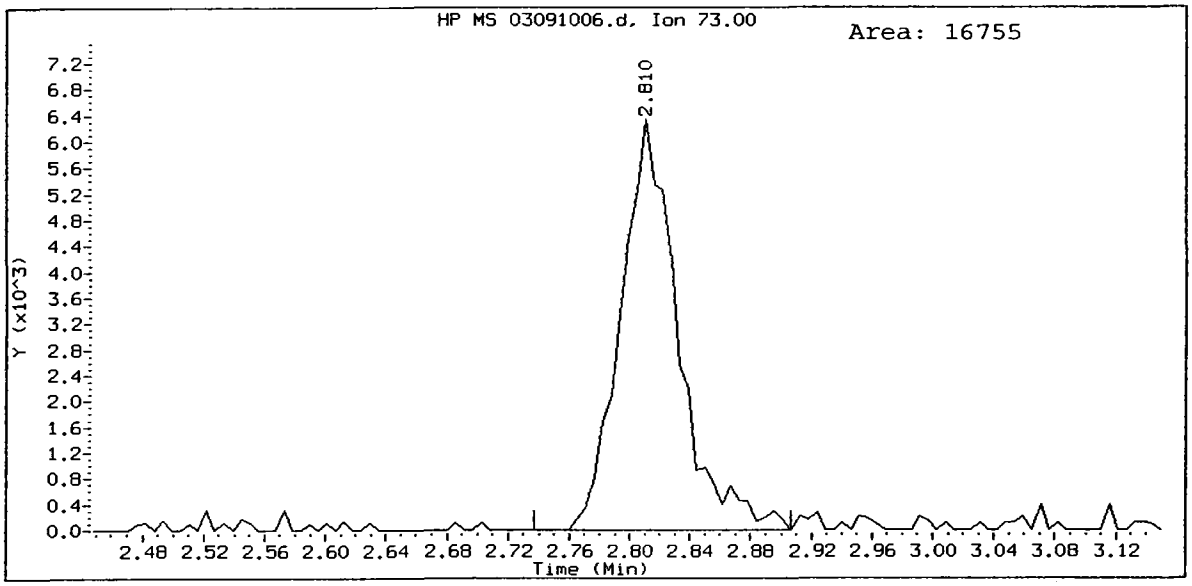
Instrument: nt5.i

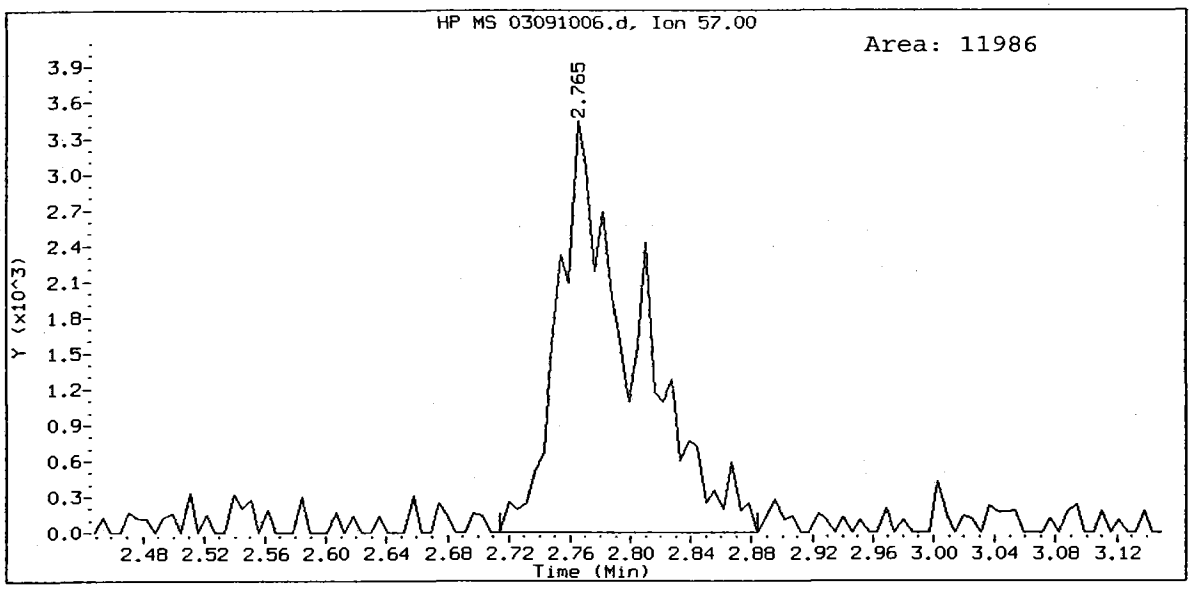
Operator: PC
Column diameter: 0.18

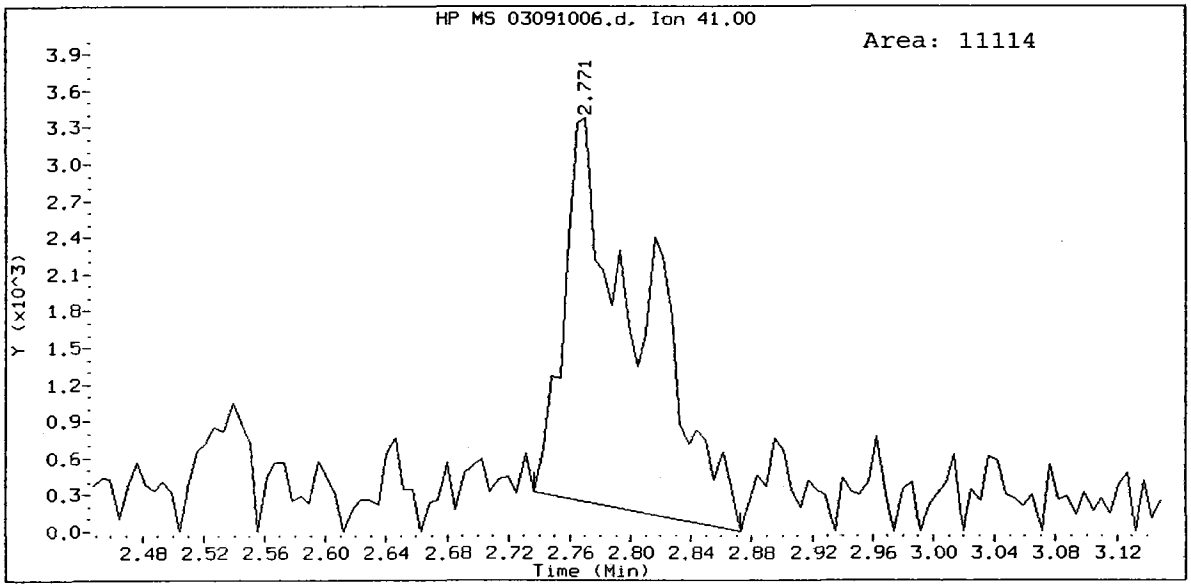
Column phase: RTXVMS



0.1 0309, /chem1/nt5.i/09MAR10.b/03091006.d
Methyl tert butyl ether Amount: 0.19







PE 3/10/10

Analytical Resources, Inc.

SW8260C 10 ML

Data file : /chem1/nt5.i/09MAR10.b/03091007.d
Lab Smp Id: 0.2 0309 Client Smp ID: 0.2 ppb
Inj Date : 09-MAR-2010 12:29
Operator : PC Inst ID: nt5.i
Smp Info : 0.2 0309,10,10,0,
Misc Info : 10-
Comment :
Method : /chem1/nt5.i/09MAR10.b/8260c030910L.m
Meth Date : 10-Mar-2010 09:57 paul Quant Type: ISTD
Cal Date : 09-MAR-2010 12:29 Cal File: 03091007.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	10.00000	Purge Volume (mL)
Sa	10.00000	Sample Amount (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Dichlorodifluoromethane	85	1.034	1.034	(0.218)	3244	0.20000	0.1518(M)
2 Chloromethane	50	1.164	1.164	(0.246)	8801	0.20000	0.2064
3 Vinyl Chloride	62	1.221	1.221	(0.258)	9978	0.20000	0.2125(M)
4 Bromomethane	94	1.447	1.447	(0.305)	5179	0.20000	0.2116(M)
5 Chloroethane	64	1.538	1.537	(0.324)	5270	0.20000	0.1751
6 Trichlorofluoromethane	101	1.645	1.645	(0.347)	8201	0.20000	0.1781
12 Acrolein	56	2.307	2.318	(0.487)	292	0.20000	0.1849
9 112Trichloro122Trifluoroethane	101	2.086	2.086	(0.440)	7258	0.20000	0.1994(M)
14 Acetone	43	2.584	2.584	(0.545)	2793	0.20000	0.5125(M)
7 1,1-Dichloroethene	96	2.041	2.041	(0.431)	6201	0.20000	0.1800
11 Bromoethane	108	2.251	2.250	(0.475)	5130	0.20000	0.2025
10 Iodomethane	142	2.149	2.143	(0.453)	7694	0.20000	0.1774(M)
13 Methylene Chloride	84	2.528	2.527	(0.533)	16361	0.20000	0.4331
18 Acrylonitrile	53	3.354	3.348	(0.708)	1099	0.20000	0.1445
16 Methyl tert butyl ether	73	2.811	2.799	(0.593)	32717	0.40000	0.3701(M)
8 Carbon Disulfide	76	2.047	2.047	(0.432)	26402	0.20000	0.1987

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
	15 Trans-1,2-Dichloroethene	96	2.675	2.675	(0.564)	7951	0.20000	0.2070
	19 Vinyl Acetate	43	3.602	3.591	(0.760)	9208	0.20000	0.1868
	17 1,1-Dichloroethane	63	3.291	3.285	(0.694)	15018	0.20000	0.1957
	21 2,2-Dichloropropane	77	3.919	3.919	(0.827)	12747	0.20000	0.2102
	20 Cis-1,2-Dichloroethene	96	3.817	3.823	(0.805)	8046	0.20000	0.2004
	32 Pentafluorobenzene	168	4.740	4.739	(1.000)	538392	10.0000	
	23 Chloroform	83	4.095	4.100	(0.864)	13523	0.20000	0.2044
	22 Bromochloromethane	128	4.004	4.004	(0.845)	6268	0.40000	0.4113
;	25 Dibromofluoromethane	111	4.264	4.264	(0.900)	253444	10.0000	10.080
	26 1,1,1-Trichloroethane	97	4.270	4.264	(0.901)	12072	0.20000	0.2123
	28 1,1-Dichloropropene	75	4.383	4.383	(0.845)	11360	0.20000	0.1999
	24 Carbon Tetrachloride	117	4.202	4.202	(0.810)	9791	0.20000	0.2167
;	31 d4-1,2-Dichloroethane	65	4.728	4.728	(0.998)	283981	10.0000	9.926
	33 1,2-Dichloroethane	62	4.785	4.790	(0.923)	8505	0.20000	0.2010(M)
	30 Benzene	78	4.609	4.604	(0.889)	34160	0.20000	0.2034
*	35 1,4-Difluorobenzene	114	5.186	5.186	(1.000)	997079	10.0000	
	34 Trichloroethene	130	5.136	5.135	(0.990)	7317	0.20000	0.1995
	38 1,2-Dichloropropane	63	5.577	5.577	(1.075)	9306	0.20000	0.2133
	39 Bromodichloromethane	83	5.656	5.650	(1.091)	9604	0.20000	0.2097
	37 Dibromomethane	93	5.486	5.486	(1.058)	3205	0.20000	0.2005
	40 2-Chloroethyl Vinyl Ether	63	6.171	6.170	(1.190)	3429	0.20000	0.1928
	45 4-Methyl-2-Pentanone	58	6.748	6.742	(1.301)	1433	0.20000	0.1609
	41 Cis 1,3-dichloropropene	75	6.193	6.193	(1.194)	12229	0.20000	0.1960
$	42 d8-Toluene	98	6.346	6.346	(1.224)	1163431	10.0000	10.035
	43 Toluene	92	6.391	6.391	(1.232)	21539	0.20000	0.2094
	46 Trans 1,3-Dichloropropene	75	6.753	6.753	(1.302)	10446	0.20000	0.2105
	47 1,1,2-Trichloroethane	97	6.883	6.883	(1.327)	4961	0.20000	0.2044
	49 1,3-Dichloropropane	76	7.098	7.104	(0.928)	9337	0.20000	0.1964
	44 Tetrachloroethene	166	6.702	6.708	(0.876)	6666	0.20000	0.2041
	48 Chlorodibromomethane	129	7.019	7.019	(0.918)	4902	0.20000	0.1912
	50 1,2-Dibromoethane	107	7.206	7.200	(1.389)	4458	0.20000	0.2046
*	52 d5-Chlorobenzene	117	7.647	7.647	(1.000)	865994	10.0000	
	53 Chlorobenzene	112	7.659	7.664	(1.001)	20008	0.20000	0.2003
	54 Ethyl Benzene	91	7.709	7.709	(1.008)	36565	0.20000	0.1956
	55 1,1,1,2-Tetrachloroethane	131	7.726	7.726	(1.010)	6101	0.20000	0.1902
	56 m,p-xylene	106	7.840	7.839	(1.025)	26229	0.40000	0.3797
	57 o-Xylene	106	8.202	8.201	(1.072)	13543	0.20000	0.1977
	58 Styrene	104	8.252	8.252	(1.079)	21242	0.20000	0.1943
	60 Isopropyl Benzene	105	8.484	8.484	(0.874)	32983	0.20000	0.2005
	59 Bromoform	173	8.247	8.247	(0.849)	2170	0.20000	0.1922
	64 1,1,2,2-Tetrachloroethane	83	8.920	8.920	(0.918)	5563	0.20000	0.2175
$	61 4-Bromofluorobenzene	95	8.711	8.710	(1.139)	415302	10.0000	10.076
	66 1,2,3-Trichloropropane	110	9.022	9.016	(0.929)	1320	0.20000	0.2101(M)
	68 Trans-1,4-Dichloro 2-Butene	53	9.084	9.072	(0.935)	1860	0.20000	0.2374(M)
	63 N-Propyl Benzene	91	8.846	8.852	(0.911)	40669	0.20000	0.2063
	62 Bromobenzene	156	8.796	8.790	(0.906)	7260	0.20000	0.2231
	67 1,3,5-Trimethyl Benzene	105	9.039	9.039	(0.931)	26546	0.20000	0.1991

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	65 2-Chloro Toluene	91	8.965	8.965	(0.923)	23732	0.20000	0.2006
	69 4-Chloro Toluene	91	9.118	9.118	(0.939)	25240	0.20000	0.2081
	70 T-Butyl Benzene	119	9.310	9.310	(0.959)	22744	0.20000	0.2032
	71 1,2,4-Trimethylbenzene	105	9.378	9.378	(0.966)	27597	0.20000	0.2065
	72 S-Butyl Benzene	105	9.469	9.468	(0.975)	37004	0.20000	0.2154
	73 4-Isopropyl Toluene	119	9.610	9.610	(0.990)	26361	0.20000	0.1978
	74 1,3-Dichlorobenzene	146	9.638	9.638	(0.992)	14886	0.20000	0.2249
*	75 d4-1,4-Dichlorobenzene	152	9.712	9.712	(1.000)	385456	10.0000	
	76 1,4-Dichlorobenzene	146	9.723	9.723	(1.001)	16436	0.20000	0.2421
	77 N-Butyl Benzene	91	9.995	9.995	(1.029)	28564	0.20000	0.2152
$	78 d4-1,2-Dichlorobenzene	152	10.091	10.091	(1.039)	337773	10.0000	9.953
	79 1,2-Dichlorobenzene	146	10.097	10.102	(1.040)	13658	0.20000	0.2275
	81 1,2-Dibromo 3-Chloropropane	75	10.843	10.843	(1.116)	1174	0.20000	0.2731
	83 1,2,4-Trichlorobenzene	180	11.488	11.494	(1.183)	11152	0.20000	0.3089
	82 Hexachloro 1,3-Butadiene	225	11.494	11.488	(1.183)	3116	0.20000	0.2244
	84 Naphthalene	128	11.799	11.799	(1.215)	21368	0.20000	0.2872
	85 1,2,3-Trichlorobenzene	180	11.980	11.974	(1.234)	8181	0.20000	0.2851

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt5.i
Lab File ID: 03091007.d
Lab Smp Id: 0.2 0309
Analysis Type: VOA
Quant Type: ISTD
Operator: PC
Method File: /chem1/nt5.i/09MAR10.b/8260c030910L.m
Misc Info: 10-

Calibration Date: 09-MAR-2010
Calibration Time: 14:12
Client Smp ID: 0.2 ppb
Level: LOW
Sample Type: WATER

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
32 Pentafluorobenzen	526014	263007	1052028	538392	2.35
35 1,4-Difluorobenze	985179	492590	1970358	997079	1.21
52 d5-Chlorobenzene	845025	422512	1690050	865994	2.48
75 d4-1,4-Dichlorobe	383446	191723	766892	385456	0.52

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
32 Pentafluorobenzen	4.74	4.24	5.24	4.74	0.00
35 1,4-Difluorobenze	5.19	4.69	5.69	5.19	0.00
52 d5-Chlorobenzene	7.65	7.15	8.15	7.65	0.00
75 d4-1,4-Dichlorobe	9.71	9.21	10.21	9.71	0.00

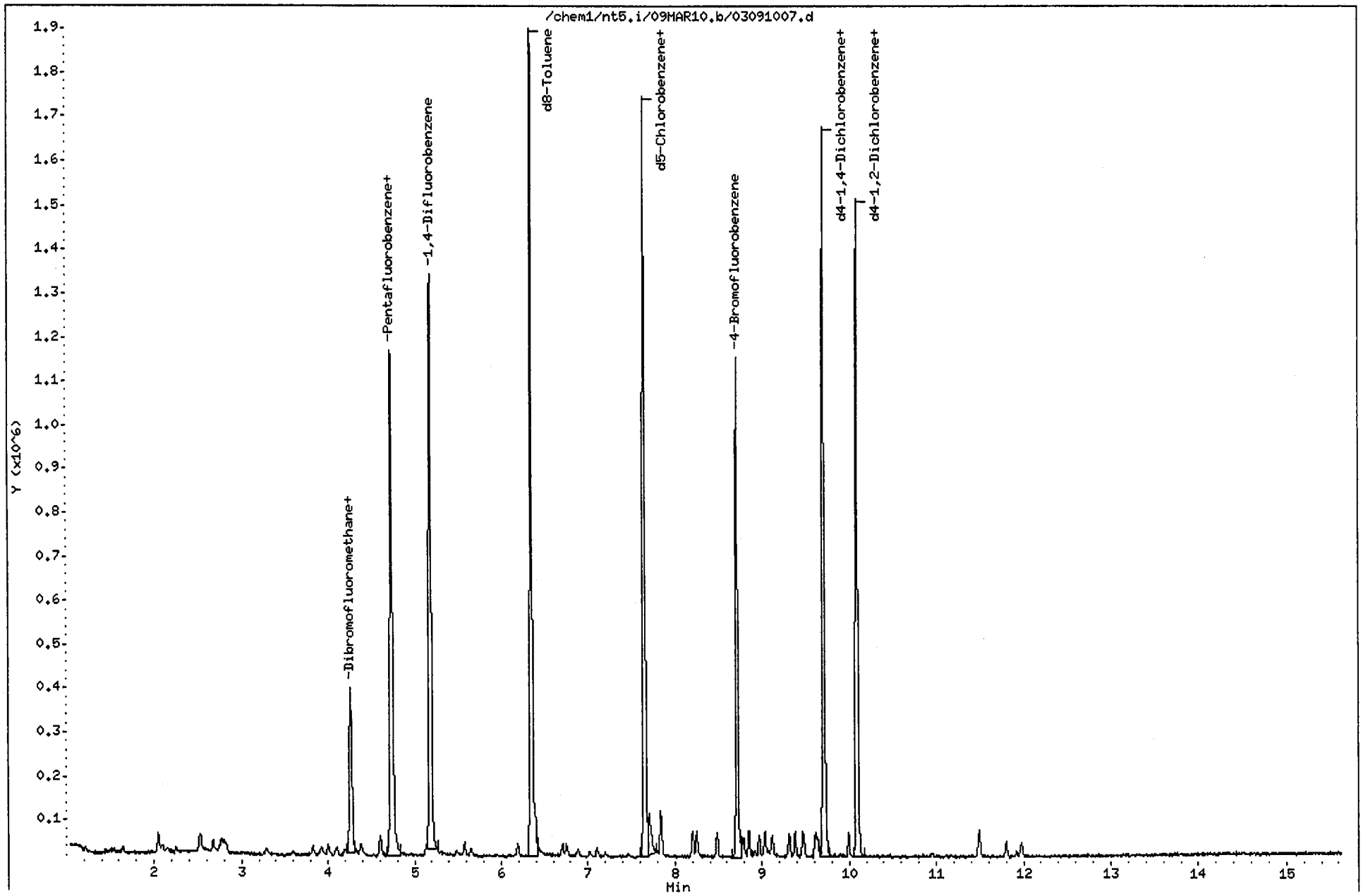
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem1/nt5.i/09MAR10.b/03091007.d
Date : 09-MAR-2010 12:29
Client ID: 0.2 ppb
Sample Info: 0.2 0309,10,10,0,

Column phase: RTXVMS

Instrument: nt5.i

Operator: PC
Column diameter: 0.18



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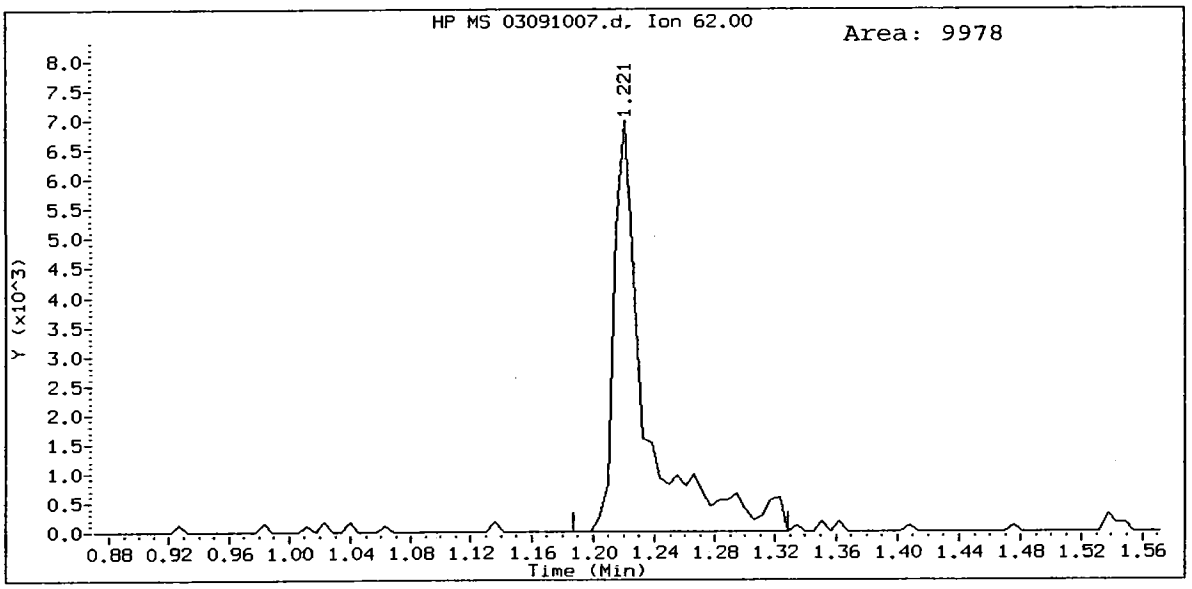
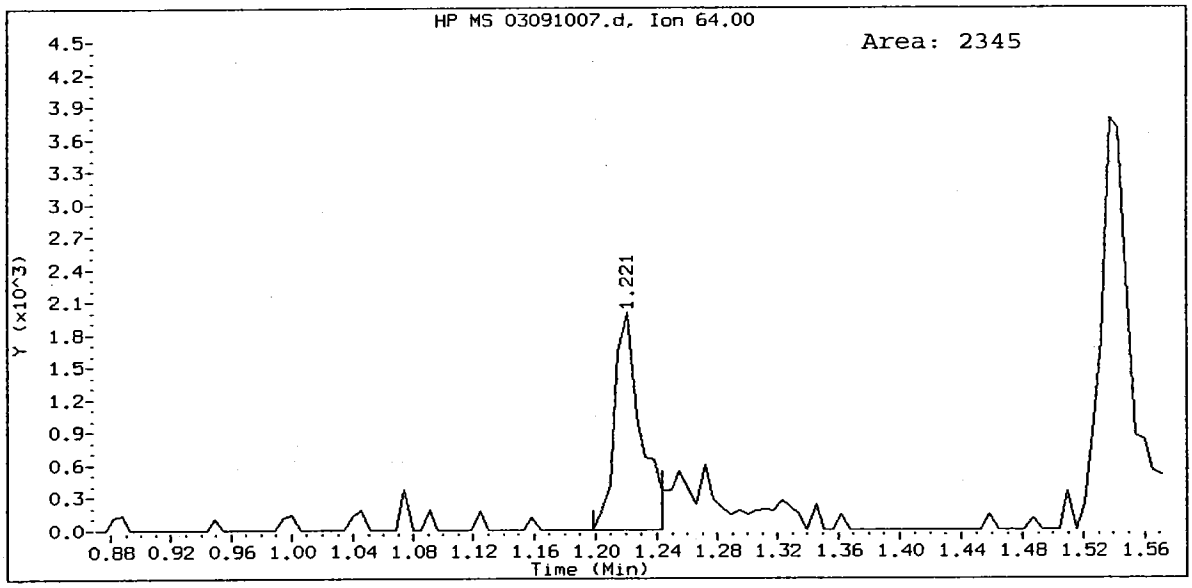
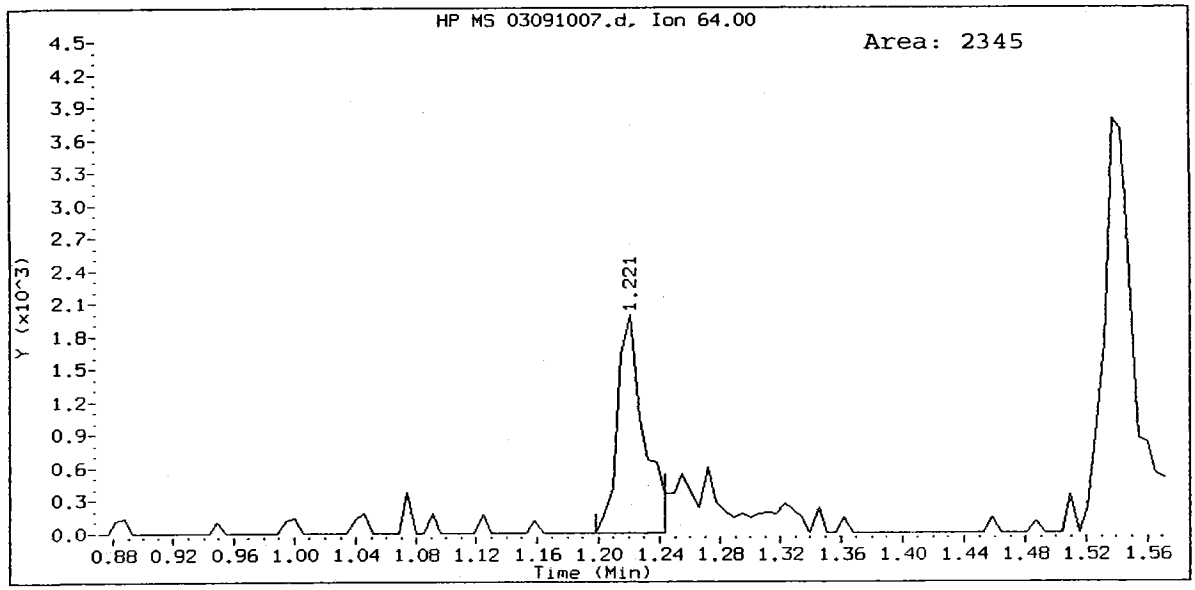
Vinyl Chloride Amount: 0.21







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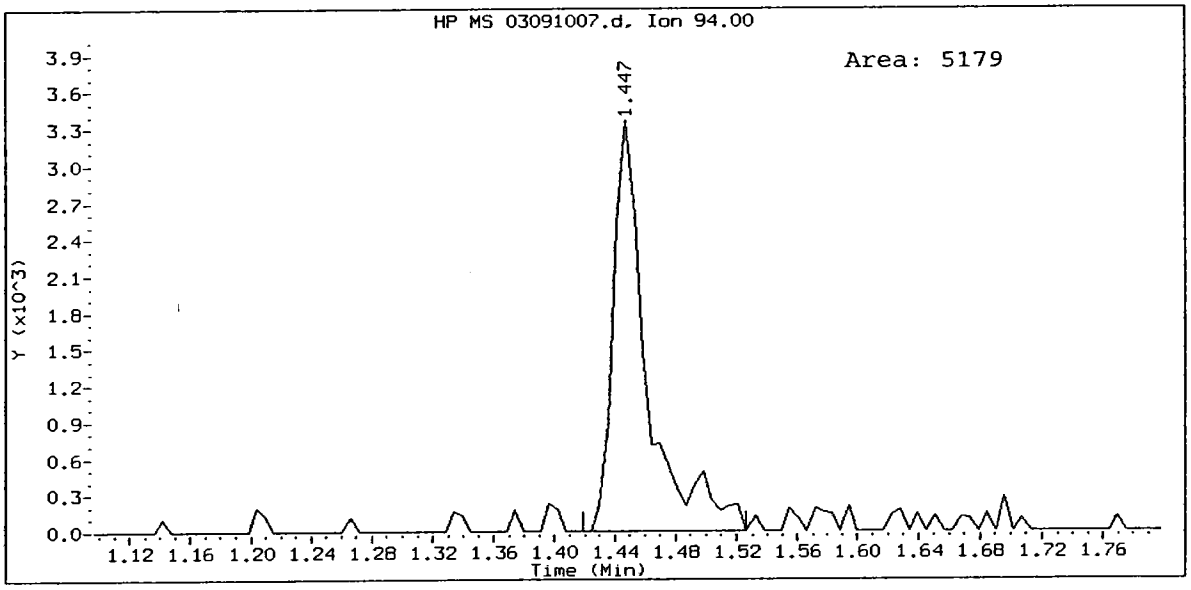
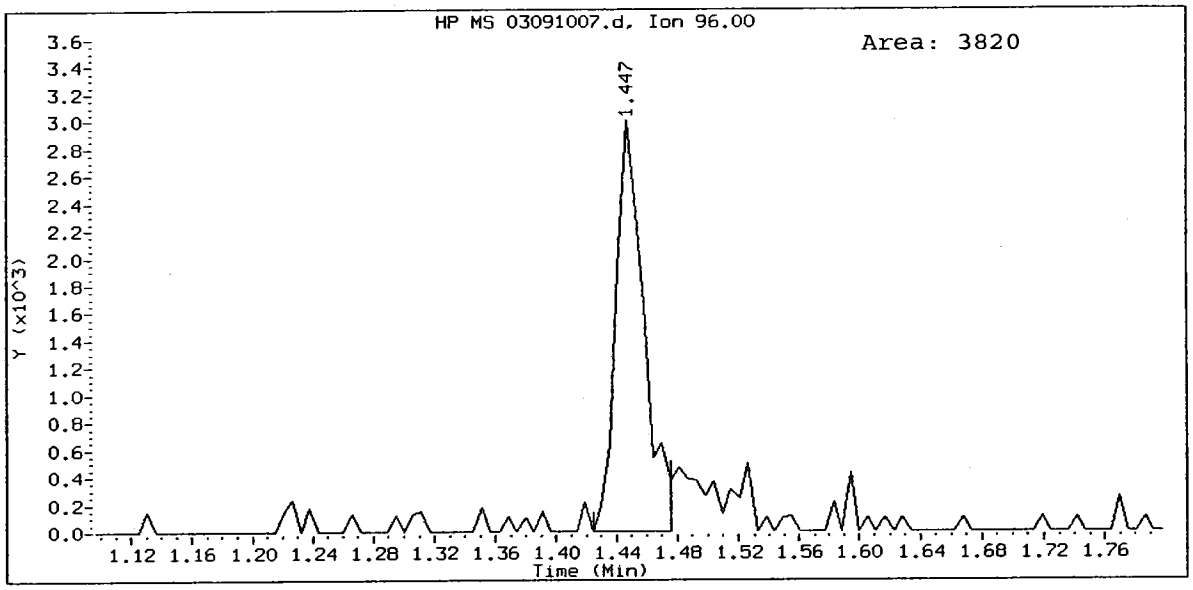
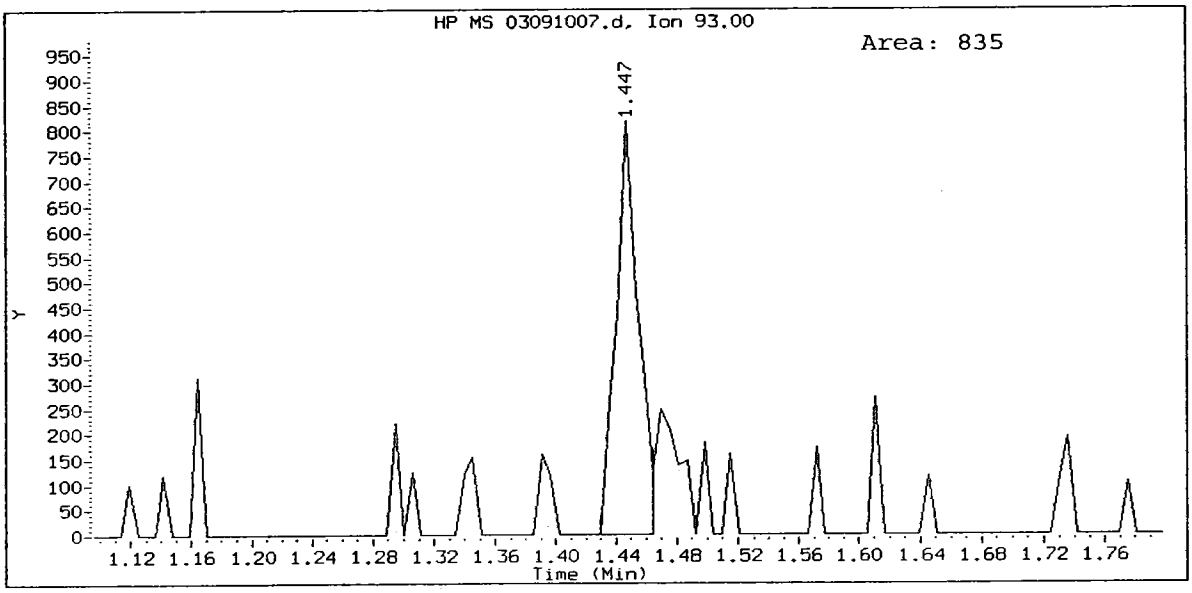
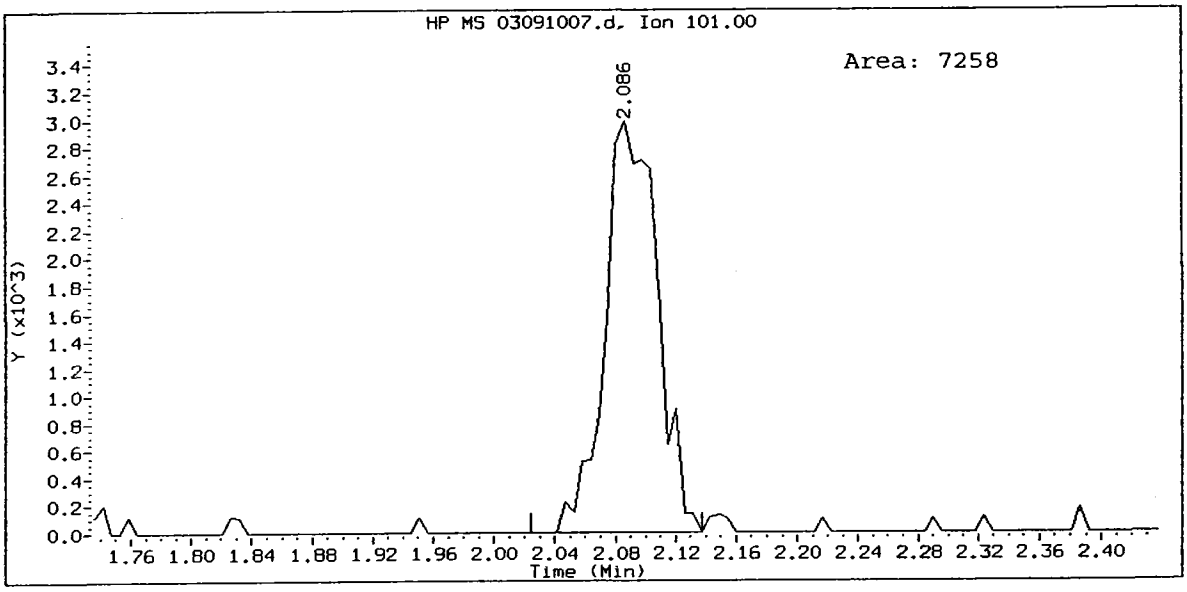
Bromomethane Amount: 0.21

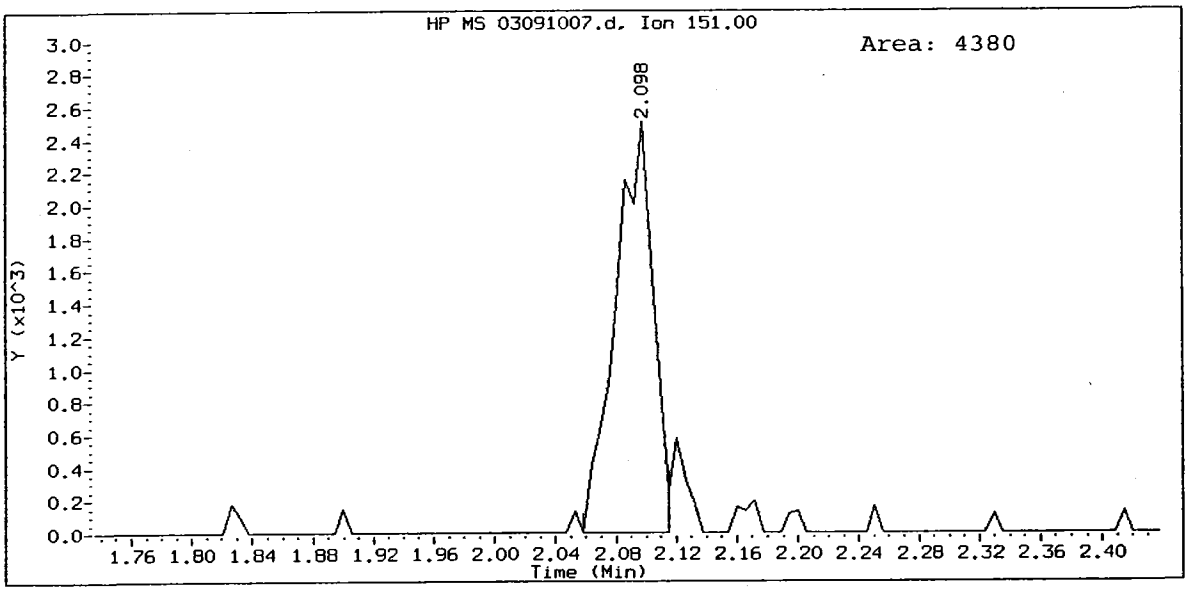


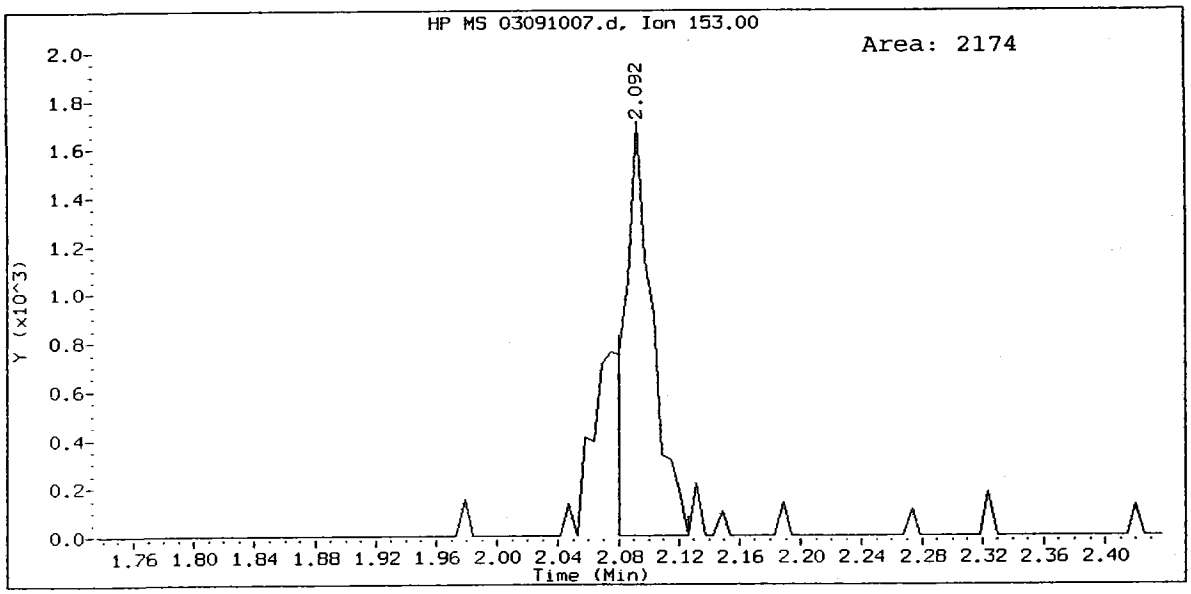




0.2 0309, /chem1/nt5.i/09MAR10.b/03091007.d
112Trichloro122Trifluoroethane Amount: 0.20







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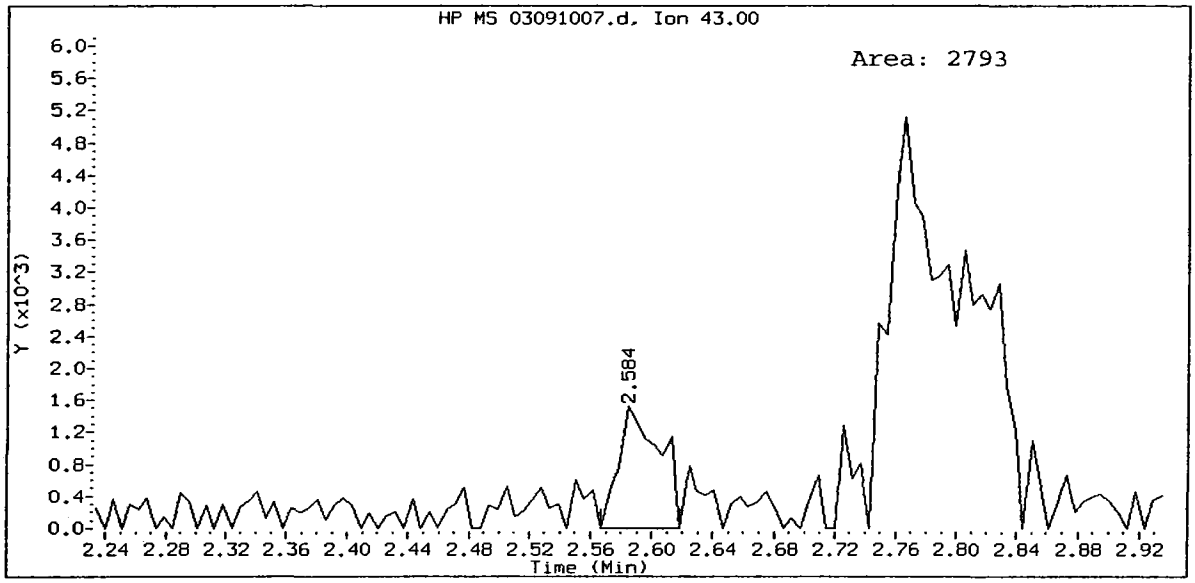
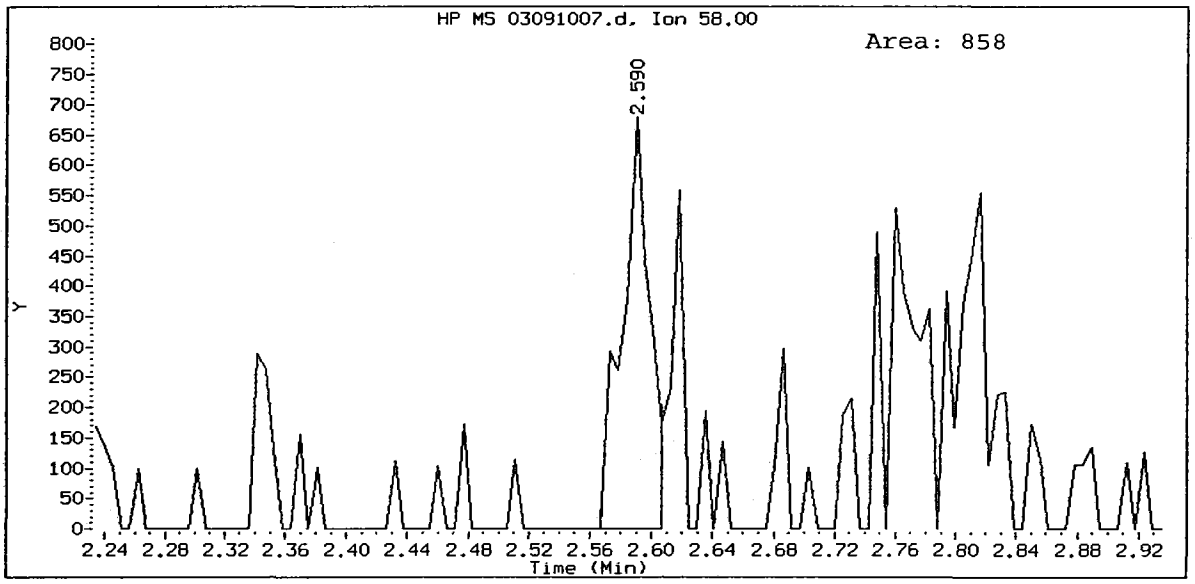
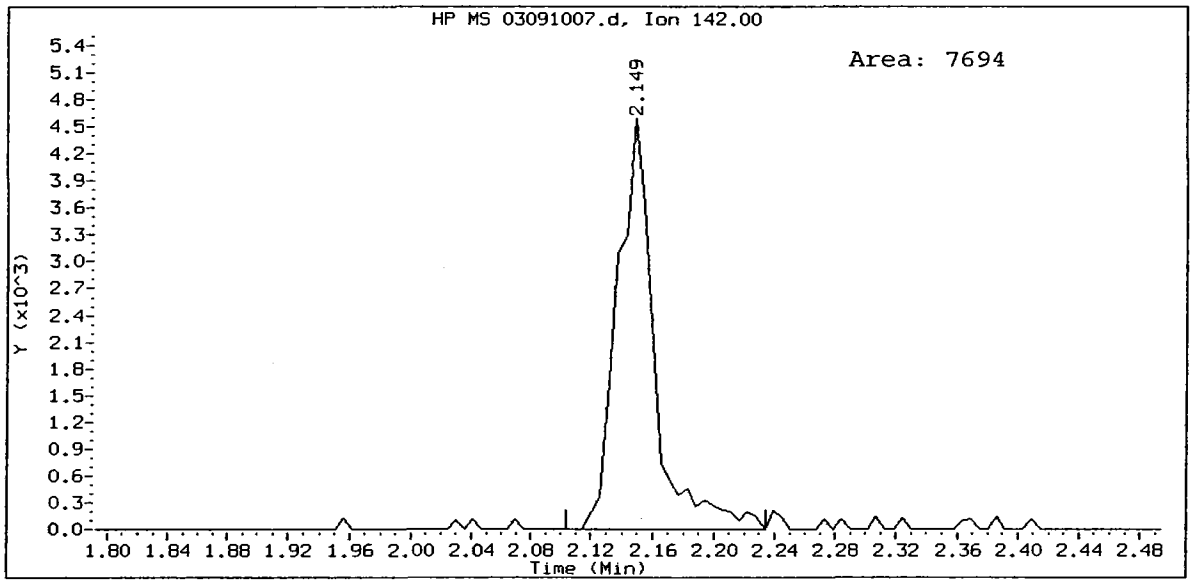
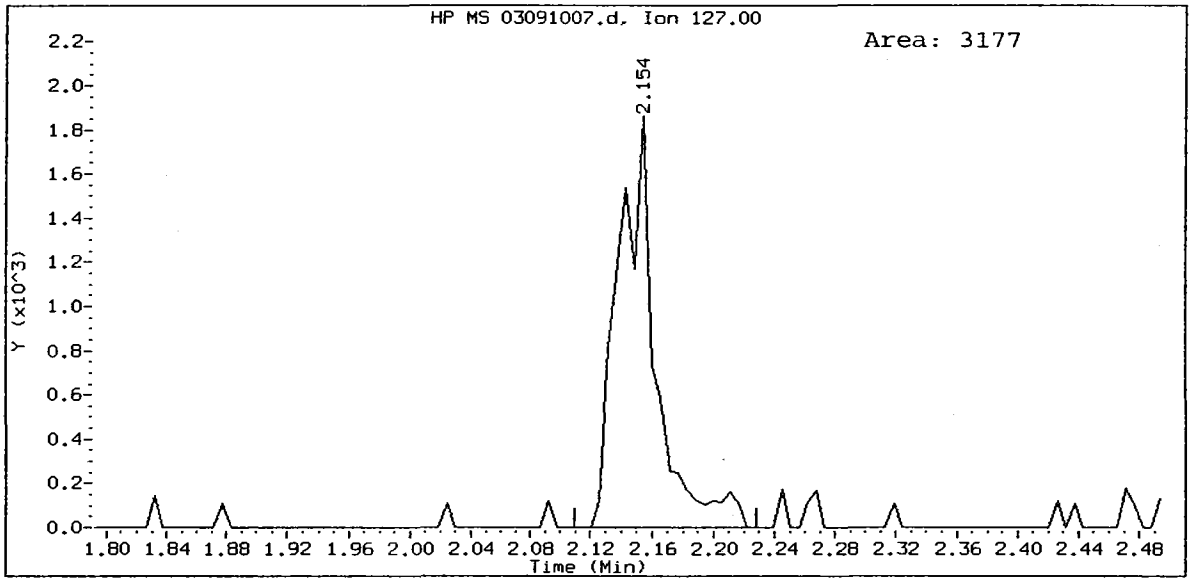
Acetone Amount: 0.51

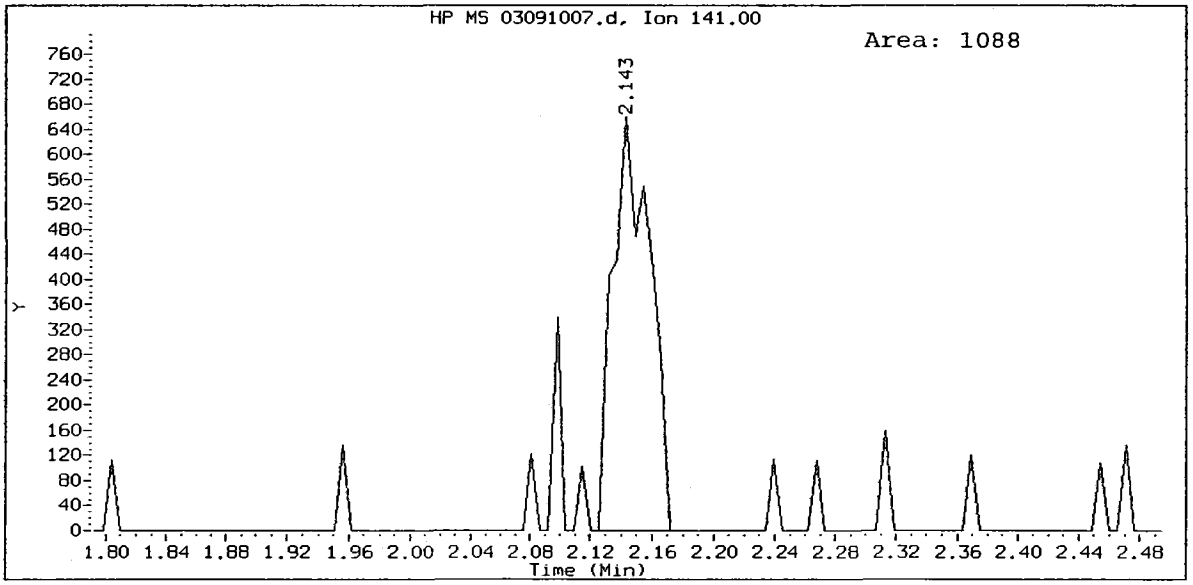




0.2 0309, /chem1/nt5.i/09MAR10.b/03091007.d
Iodomethane Amount: 0.18







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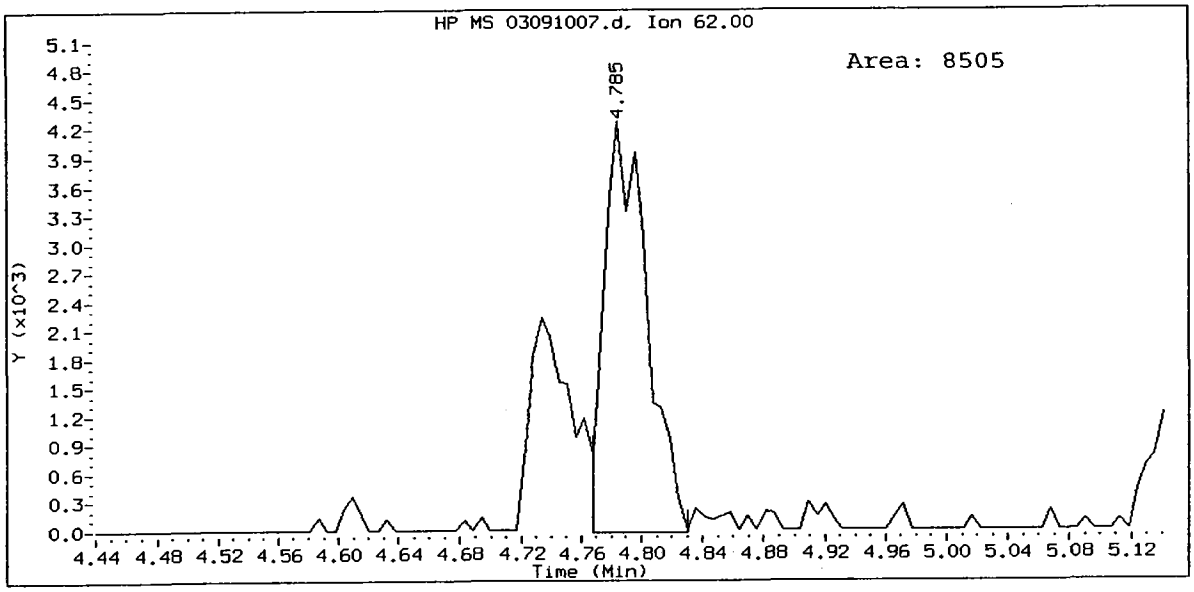
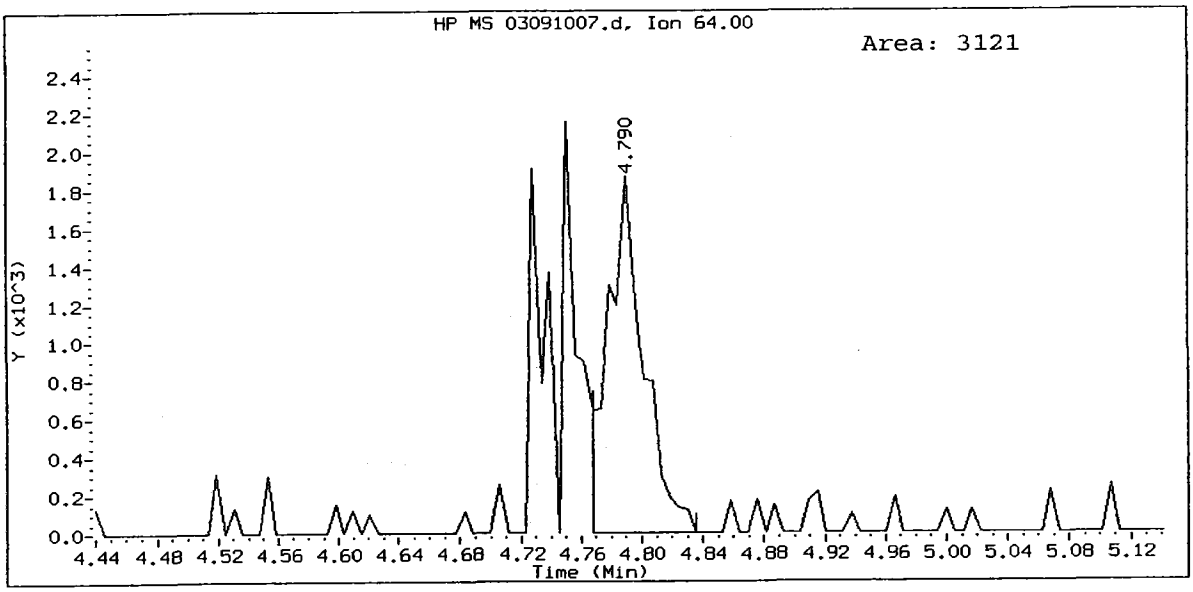
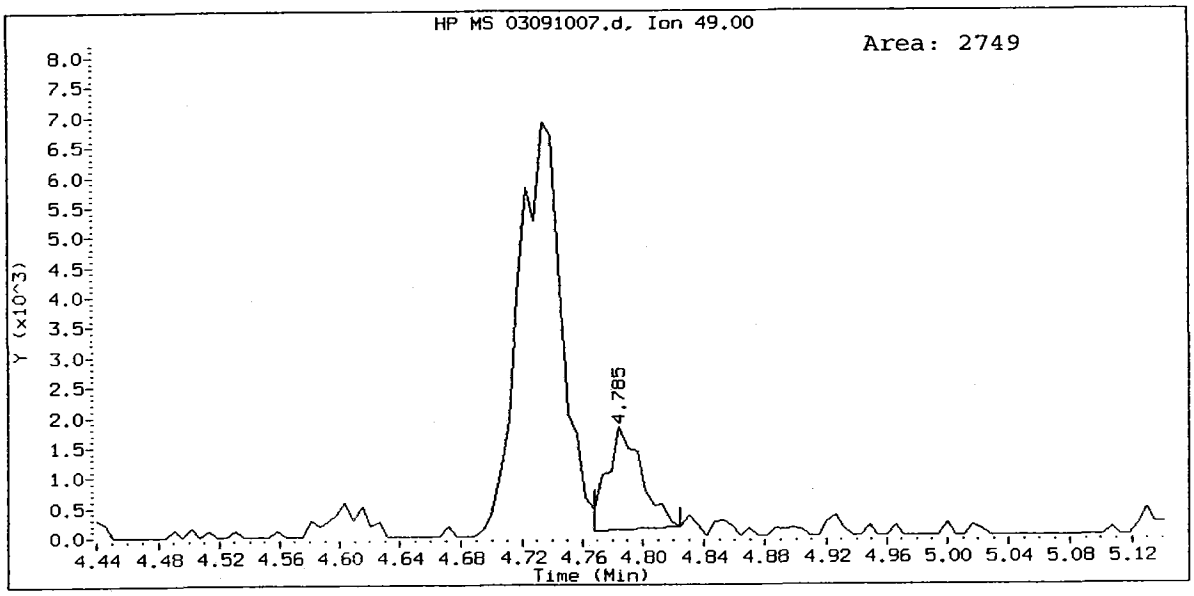
1,2-Dichloroethane Amount: 0.20







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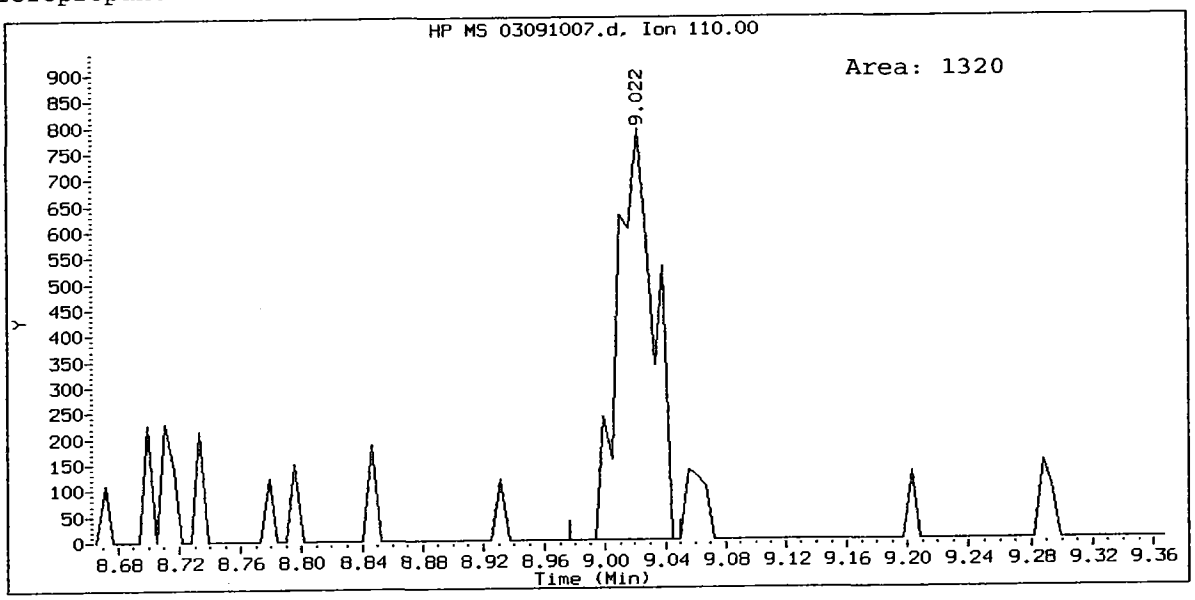
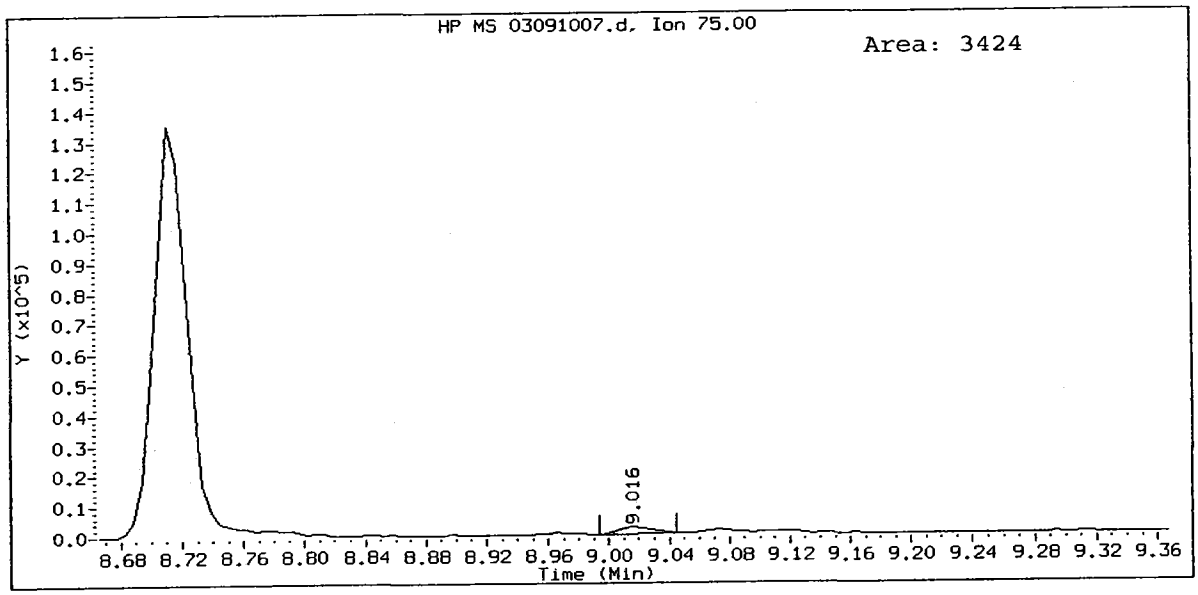
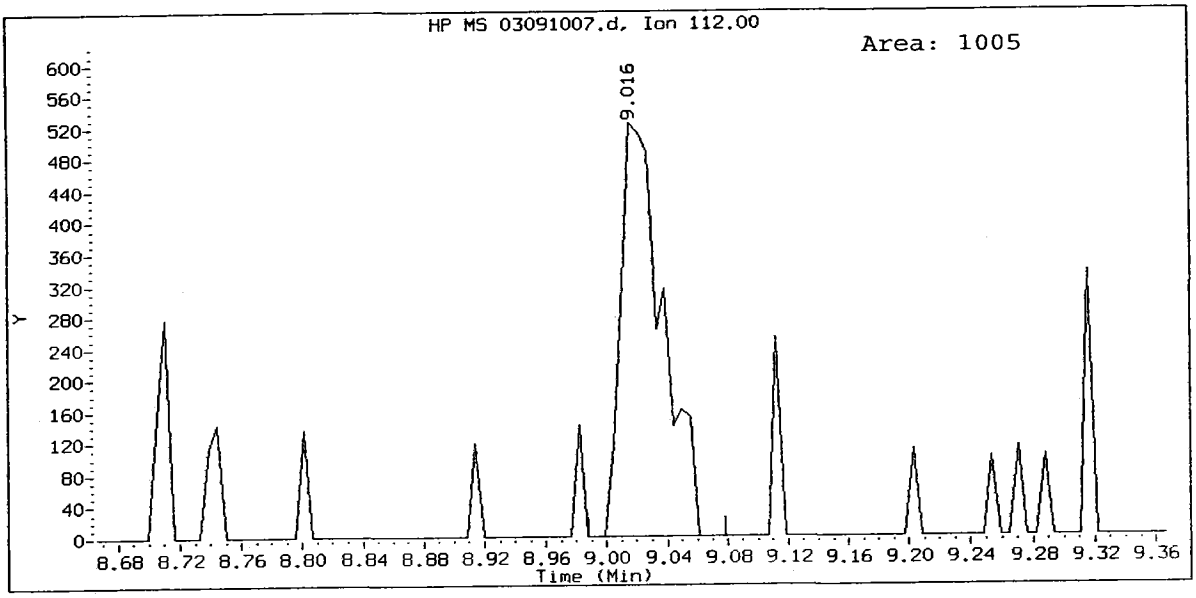
1,2,3-Trichloropropane Amount: 0.21







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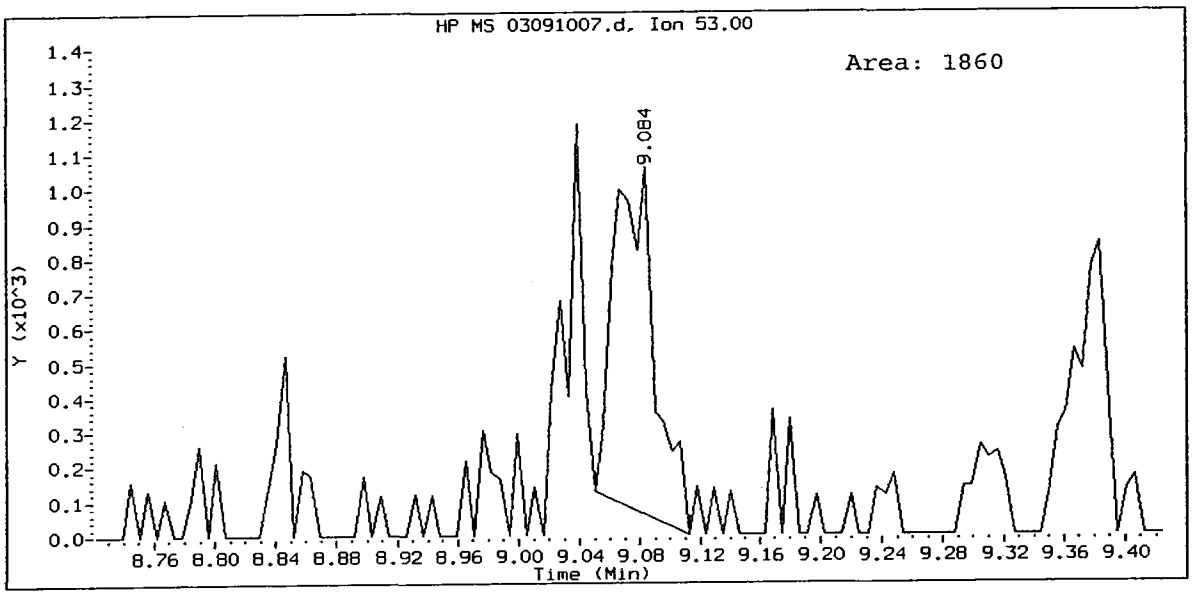
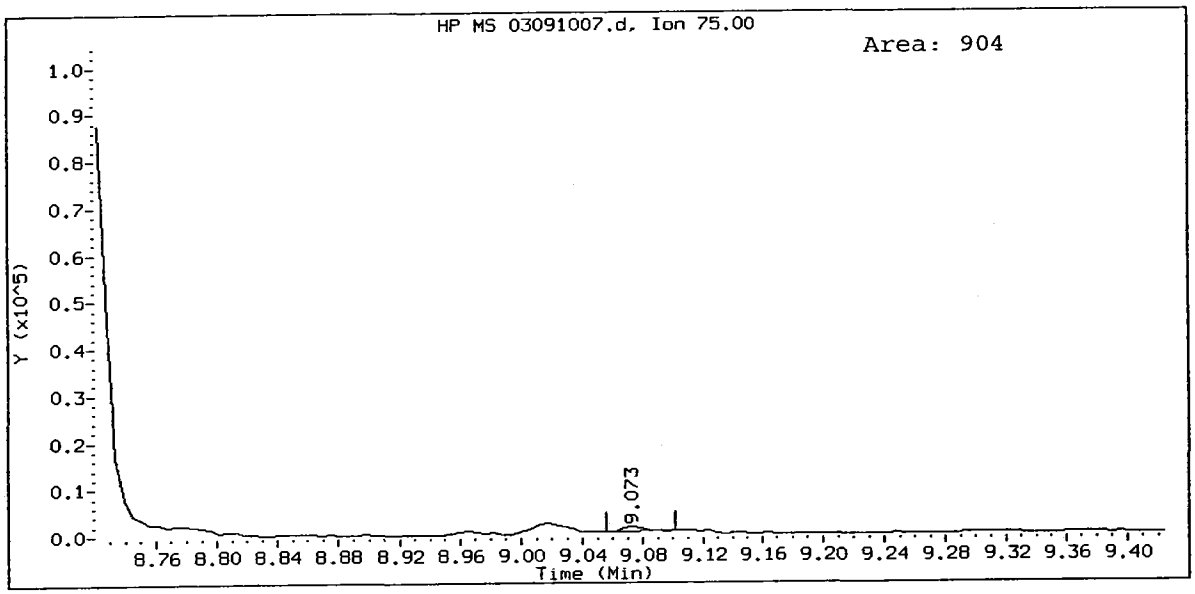
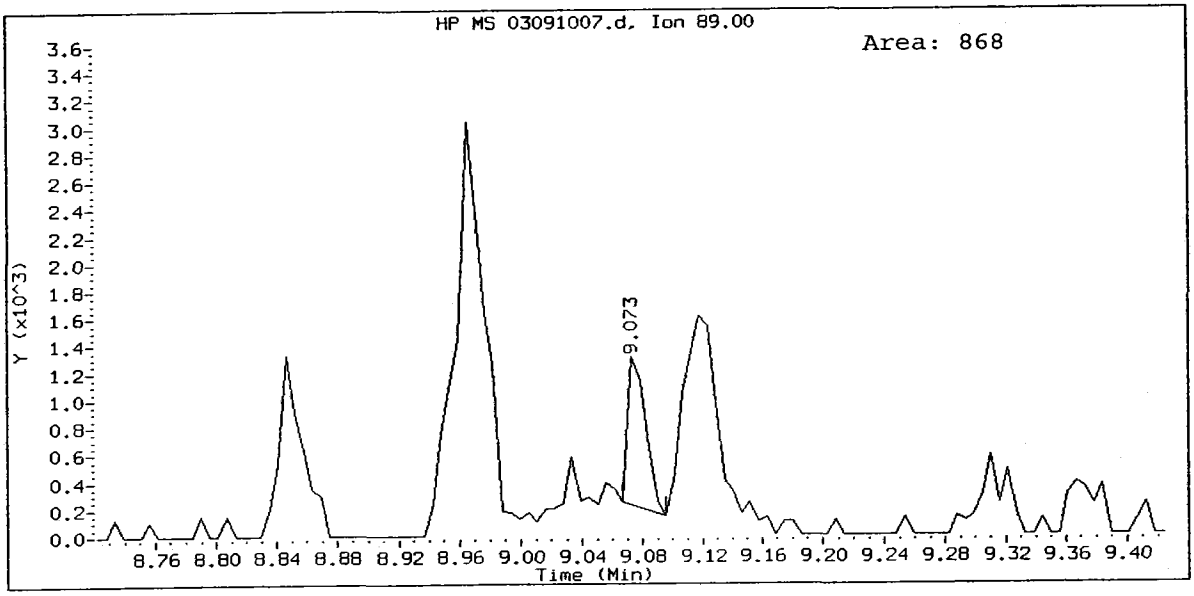
Trans-1,4-Dichloro 2-Butene Amount: 0.24







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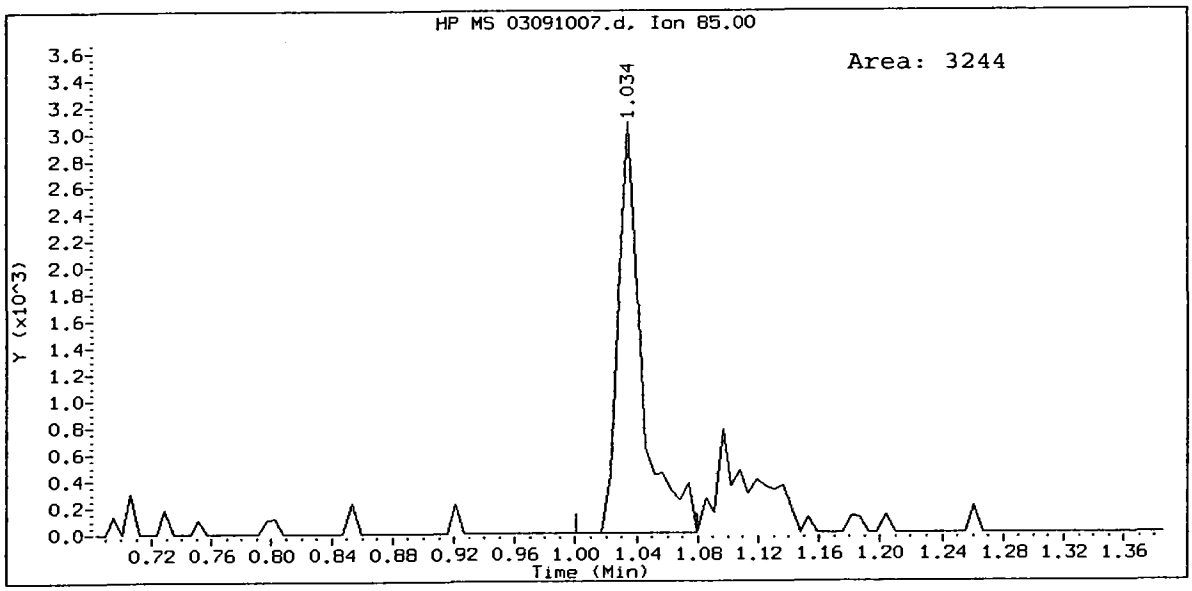
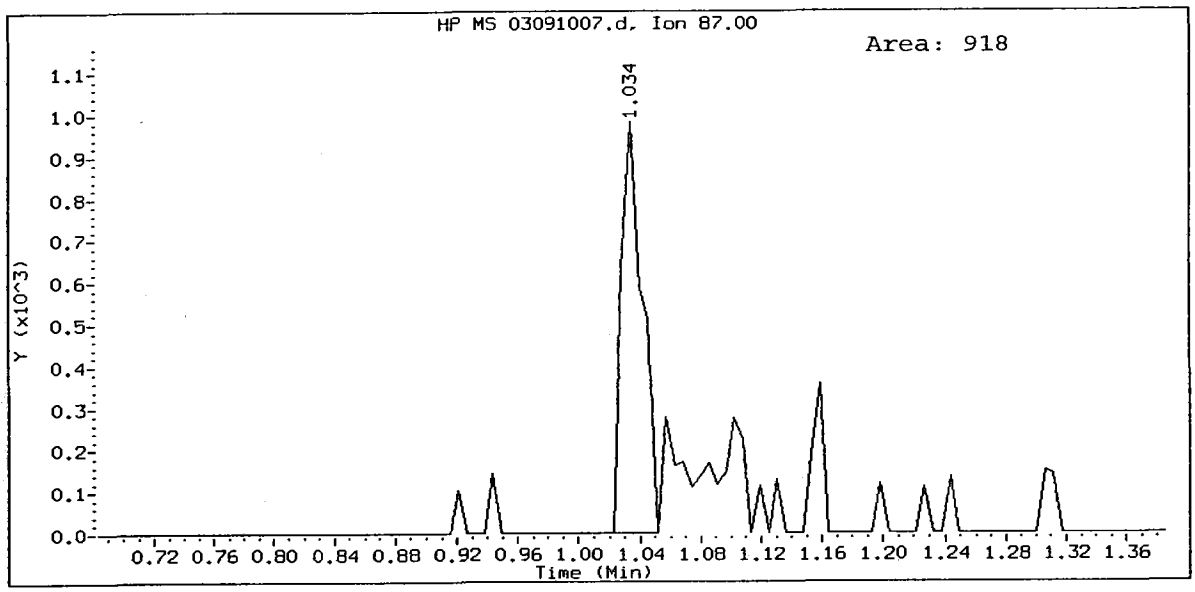
Dichlorodifluoromethane Amount: 0.15





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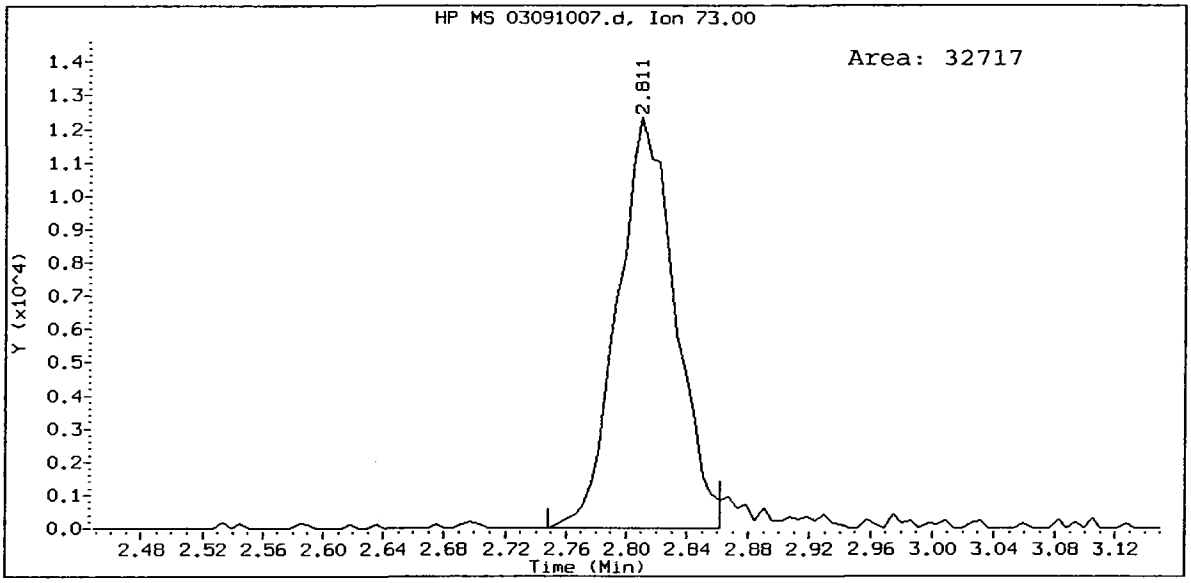
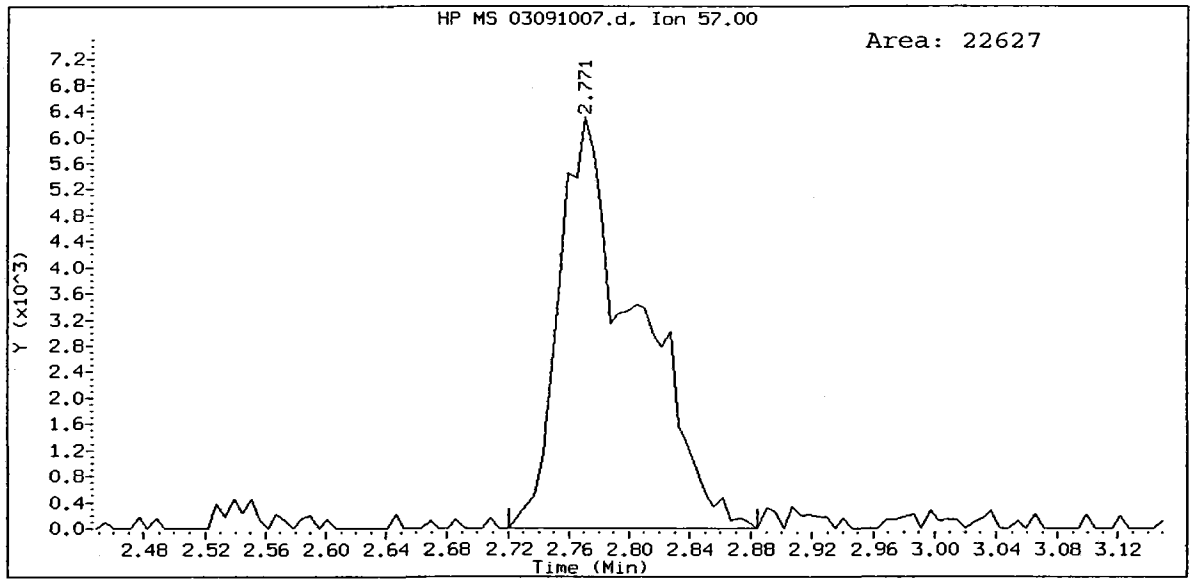
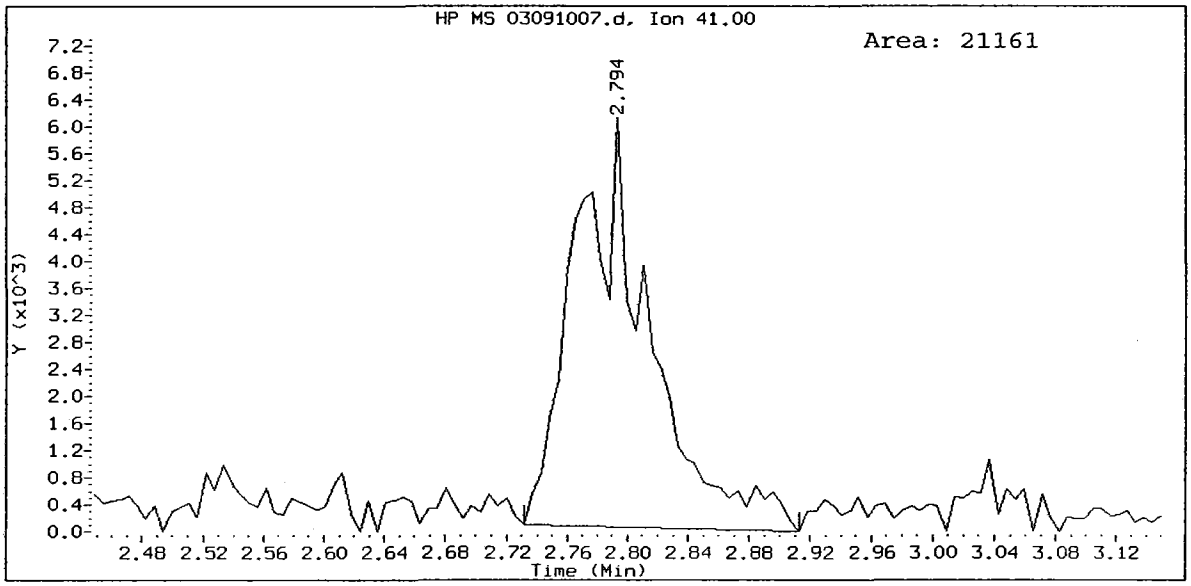
Methyl tert butyl ether Amount: 0.37







PC 3/10/10

Analytical Resources, Inc.

SW8260C 10 ML

Data file : /chem1/nt5.i/09MAR10.b/03091008.d
Lab Smp Id: 0.5 0309 Client Smp ID: 0.5 ppb
Inj Date : 09-MAR-2010 12:55
Operator : PC Inst ID: nt5.i
Smp Info : 0.5 0309,10,10,0,
Misc Info : 10-
Comment :
Method : /chem1/nt5.i/09MAR10.b/8260c030910L.m
Meth Date : 10-Mar-2010 09:57 paul Quant Type: ISTD
Cal Date : 09-MAR-2010 12:55 Cal File: 03091008.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	10.00000	Purge Volume (mL)
Sa	10.00000	Sample Amount (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1	Dichlorodifluoromethane	85	1.034	1.034	(0.218)	10095	0.50000	0.4783(M)
2	Chloromethane	50	1.164	1.164	(0.246)	20651	0.50000	0.4904
3	Vinyl Chloride	62	1.221	1.221	(0.258)	23082	0.50000	0.4979(M)
4	Bromomethane	94	1.447	1.447	(0.305)	11888	0.50000	0.4918(M)
5	Chloroethane	64	1.543	1.537	(0.326)	12941	0.50000	0.4353(M)
6	Trichlorofluoromethane	101	1.645	1.645	(0.347)	23623	0.50000	0.5196
12	Acrolein	56	2.312	2.318	(0.488)	739	0.50000	0.4739
9	112Trichloro122Trifluoroethane	101	2.092	2.086	(0.441)	18120	0.50000	0.5041
14	Acetone	43	2.590	2.584	(0.546)	4518	0.50000	0.8395
7	1,1-Dichloroethene	96	2.041	2.041	(0.431)	17672	0.50000	0.5195
11	Bromoethane	108	2.250	2.250	(0.475)	11760	0.50000	0.4702
10	Iodomethane	142	2.143	2.143	(0.452)	20345	0.50000	0.4750
13	Methylene Chloride	84	2.527	2.527	(0.533)	30020	0.50000	0.8048
18	Acrylonitrile	53	3.348	3.348	(0.706)	4742	0.50000	0.6313(M)
16	Methyl tert butyl ether	73	2.810	2.799	(0.593)	84683	1.00000	0.9701(M)
8	Carbon Disulfide	76	2.047	2.047	(0.432)	67056	0.50000	0.5112

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
15 Trans-1,2-Dichloroethene	96	2.675	2.675	(0.564)	19455	0.50000	0.5131
19 Vinyl Acetate	43	3.597	3.591	(0.759)	23800	0.50000	0.4890
17 1,1-Dichloroethane	63	3.285	3.285	(0.693)	38917	0.50000	0.5136
29 2-Butanone	72	4.406	4.400	(0.930)	2936	0.50000	0.6458(M)
21 2,2-Dichloropropane	77	3.919	3.919	(0.827)	30509	0.50000	0.5096
20 Cis-1,2-Dichloroethene	96	3.817	3.823	(0.805)	19699	0.50000	0.4969
32 Pentafluorobenzene	168	4.739	4.739	(1.000)	531615	10.0000	
23 Chloroform	83	4.106	4.100	(0.866)	33489	0.50000	0.5127
22 Bromochloromethane	128	4.004	4.004	(0.845)	14991	1.00000	0.9961
25 Dibromofluoromethane	111	4.264	4.264	(0.900)	253316	10.0000	10.203
26 1,1,1-Trichloroethane	97	4.264	4.264	(0.900)	28633	0.50000	0.5100
28 1,1-Dichloropropene	75	4.389	4.383	(0.846)	28388	0.50000	0.5050
24 Carbon Tetrachloride	117	4.196	4.202	(0.809)	21659	0.50000	0.4847
31 d4-1,2-Dichloroethane	65	4.728	4.728	(0.998)	295547	10.0000	10.462
33 1,2-Dichloroethane	62	4.790	4.790	(0.924)	22479	0.50000	0.5373
30 Benzene	78	4.609	4.604	(0.889)	84799	0.50000	0.5106
35 1,4-Difluorobenzene	114	5.186	5.186	(1.000)	985995	10.0000	
34 Trichloroethene	130	5.141	5.135	(0.991)	18460	0.50000	0.5089
38 1,2-Dichloropropane	63	5.577	5.577	(1.075)	21173	0.50000	0.4907
39 Bromodichloromethane	83	5.650	5.650	(1.089)	22285	0.50000	0.4921
37 Dibromomethane	93	5.486	5.486	(1.058)	8344	0.50000	0.5280
40 2-Chloroethyl Vinyl Ether	63	6.170	6.170	(1.190)	8093	0.50000	0.4601
45 4-Methyl-2-Pentanone	58	6.747	6.742	(1.301)	4111	0.50000	0.4668
41 Cis 1,3-dichloropropene	75	6.193	6.193	(1.194)	30473	0.50000	0.4939
42 d8-Toluene	98	6.346	6.346	(1.224)	1163474	10.0000	10.149
43 Toluene	92	6.391	6.391	(1.232)	51656	0.50000	0.5078
46 Trans 1,3-Dichloropropene	75	6.753	6.753	(1.302)	24302	0.50000	0.4953
51 2-Hexanone	43	7.460	7.455	(0.976)	7519	0.50000	0.5158
47 1,1,2-Trichloroethane	97	6.883	6.883	(1.327)	12043	0.50000	0.5018
49 1,3-Dichloropropane	76	7.104	7.104	(0.929)	24032	0.50000	0.5059
44 Tetrachloroethene	166	6.702	6.708	(0.876)	15686	0.50000	0.4806
48 Chlorodibromomethane	129	7.019	7.019	(0.918)	12277	0.50000	0.4793
50 1,2-Dibromoethane	107	7.194	7.200	(1.387)	10212	0.50000	0.4739
52 d5-Chlorobenzene	117	7.647	7.647	(1.000)	865285	10.0000	
53 Chlorobenzene	112	7.658	7.664	(1.001)	51998	0.50000	0.5209
54 Ethyl Benzene	91	7.709	7.709	(1.008)	97598	0.50000	0.5225
55 1,1,1,2-Tetrachloroethane	131	7.732	7.726	(1.011)	16740	0.50000	0.5224
56 m,p-xylene	106	7.839	7.839	(1.025)	70063	1.00000	1.015
57 o-Xylene	106	8.207	8.201	(1.073)	32997	0.50000	0.4822
58 Styrene	104	8.252	8.252	(1.079)	51449	0.50000	0.4711
60 Isopropyl Benzene	105	8.484	8.484	(0.874)	83936	0.50000	0.5030
59 Bromoform	173	8.252	8.247	(0.850)	5763	0.50000	0.5030
64 1,1,2,2-Tetrachloroethane	83	8.920	8.920	(0.918)	14052	0.50000	0.5415
61 4-Bromofluorobenzene	95	8.710	8.710	(1.139)	399202	10.0000	9.694
66 1,2,3-Trichloropropane	110	9.016	9.016	(0.928)	3724	0.50000	0.5843(M)
68 Trans-1,4-Dichloro 2-Butene	53	9.072	9.072	(0.934)	4924	0.50000	0.6195(M)
63 N-Propyl Benzene	91	8.852	8.852	(0.911)	107154	0.50000	0.5359

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
	62 Bromobenzene	156	8.790	8.790	(0.905)	16230	0.50000	0.4917
	67 1,3,5-Trimethyl Benzene	105	9.039	9.039	(0.931)	70199	0.50000	0.5191
	65 2-Chloro Toluene	91	8.965	8.965	(0.923)	63030	0.50000	0.5251
	69 4-Chloro Toluene	91	9.118	9.118	(0.939)	64925	0.50000	0.5277
	70 T-Butyl Benzene	119	9.310	9.310	(0.959)	56505	0.50000	0.4976
	71 1,2,4-Trimethylbenzene	105	9.378	9.378	(0.966)	69112	0.50000	0.5098
	72 S-Butyl Benzene	105	9.474	9.468	(0.976)	92053	0.50000	0.5283
	73 4-Isopropyl Toluene	119	9.610	9.610	(0.990)	70800	0.50000	0.5237
	74 1,3-Dichlorobenzene	146	9.638	9.638	(0.992)	32994	0.50000	0.4913
*	75 d4-1,4-Dichlorobenzene	152	9.712	9.712	(1.000)	391023	10.0000	
	76 1,4-Dichlorobenzene	146	9.723	9.723	(1.001)	34990	0.50000	0.5080
	77 N-Butyl Benzene	91	9.995	9.995	(1.029)	68767	0.50000	0.5108
$	78 d4-1,2-Dichlorobenzene	152	10.091	10.091	(1.039)	348995	10.0000	10.137
	79 1,2-Dichlorobenzene	146	10.102	10.102	(1.040)	31931	0.50000	0.5242
	81 1,2-Dibromo 3-Chloropropane	75	10.843	10.843	(1.116)	2271	0.50000	0.5207
	83 1,2,4-Trichlorobenzene	180	11.494	11.494	(1.183)	19785	0.50000	0.5402
	82 Hexachloro 1,3-Butadiene	225	11.488	11.488	(1.183)	8008	0.50000	0.5685
	84 Naphthalene	128	11.799	11.799	(1.215)	40604	0.50000	0.5379
	85 1,2,3-Trichlorobenzene	180	11.980	11.974	(1.234)	14480	0.50000	0.4974

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt5.i
Lab File ID: 03091008.d
Lab Smp Id: 0.5 0309
Analysis Type: VOA
Quant Type: ISTD
Operator: PC
Method File: /chem1/nt5.i/09MAR10.b/8260c030910L.m
Misc Info: 10-

Calibration Date: 09-MAR-2010
Calibration Time: 14:12
Client Smp ID: 0.5 ppb
Level: LOW
Sample Type: WATER

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
32 Pentafluorobenzen	526014	263007	1052028	531615	1.06
35 1,4-Difluorobenze	985179	492590	1970358	985995	0.08
52 d5-Chlorobenzene	845025	422512	1690050	865285	2.40
75 d4-1,4-Dichlorobe	383446	191723	766892	391023	1.98

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
32 Pentafluorobenzen	4.74	4.24	5.24	4.74	0.00
35 1,4-Difluorobenze	5.19	4.69	5.69	5.19	0.00
52 d5-Chlorobenzene	7.65	7.15	8.15	7.65	0.00
75 d4-1,4-Dichlorobe	9.71	9.21	10.21	9.71	0.00

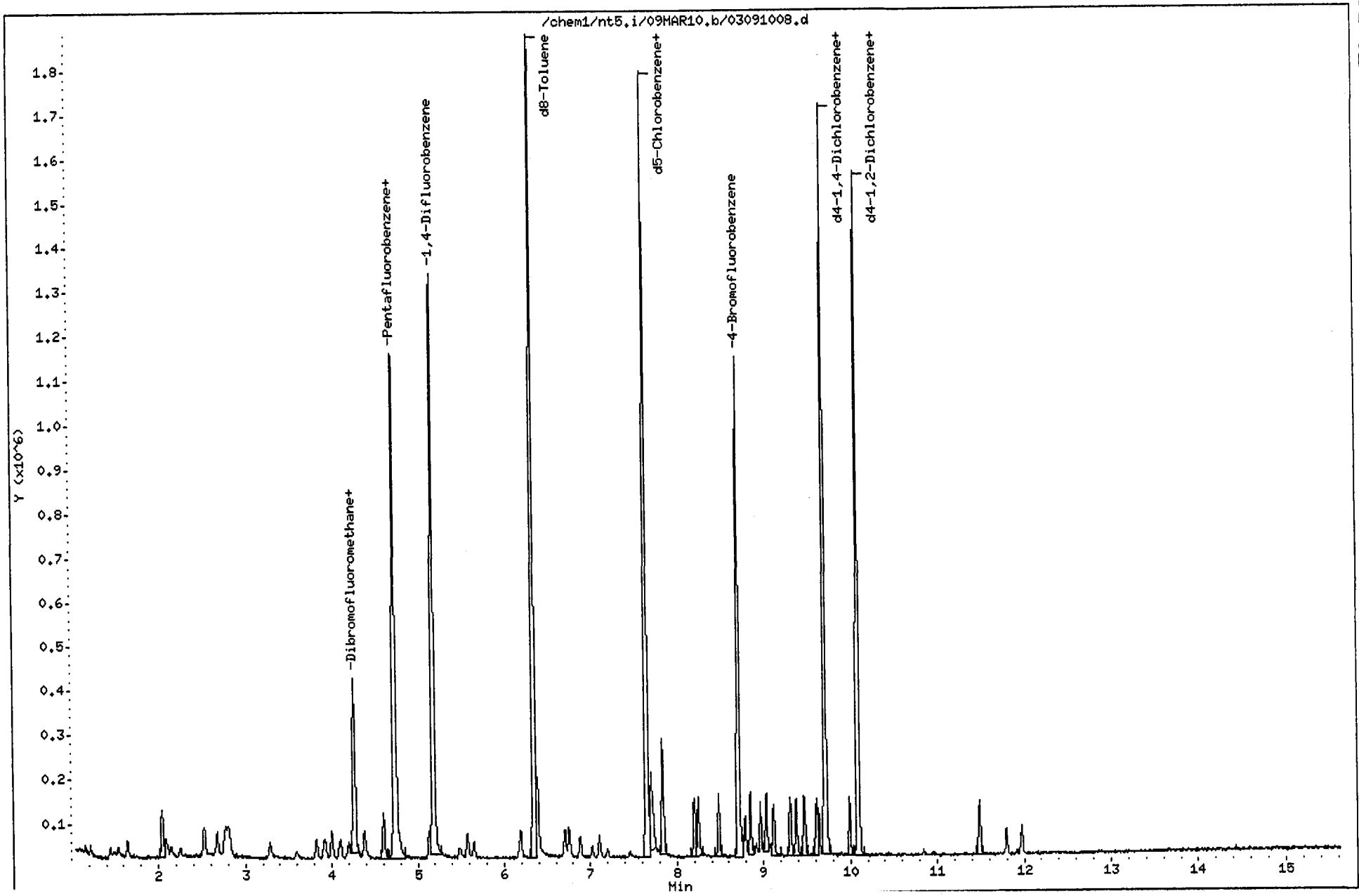
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem1/nt5.i/09MAR10.b/03091008.d
Date : 09-MAR-2010 12:55
Client ID: 0.5 ppb
Sample Info: 0.5 0309,10,10,0,

Instrument: nt5.i

Operator: PC
Column diameter: 0.18

Column phase: RTXVMS



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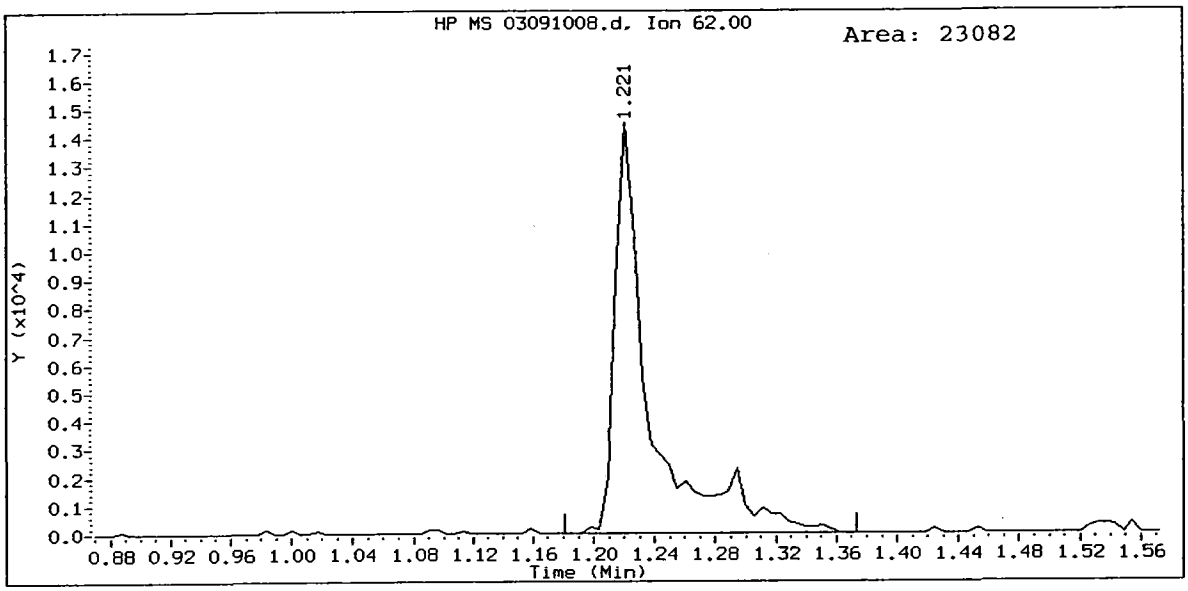
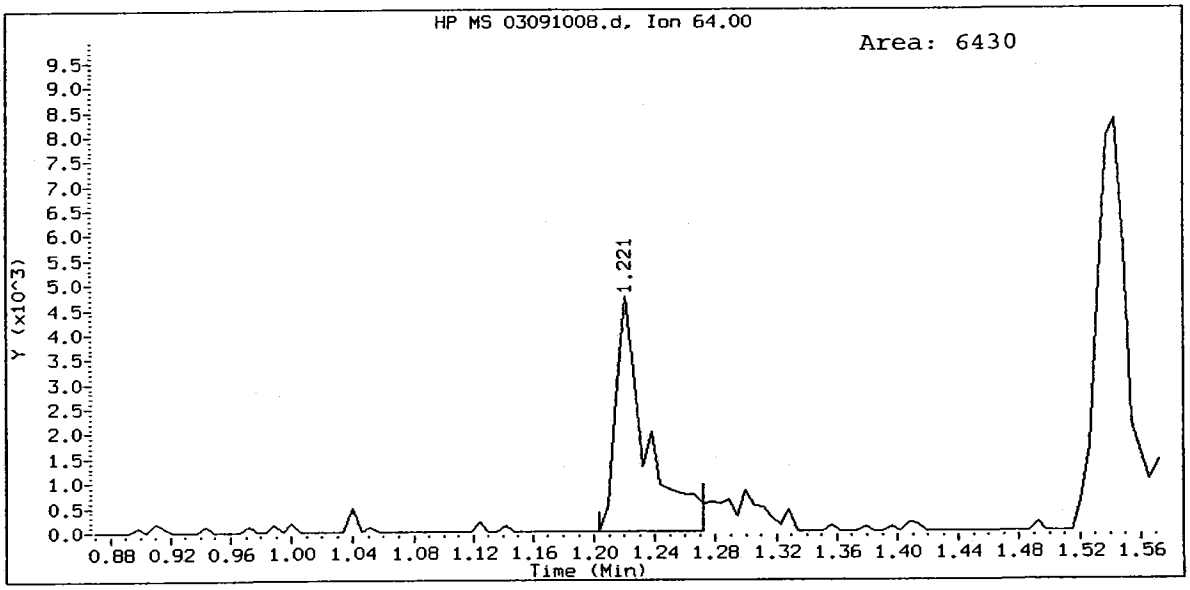
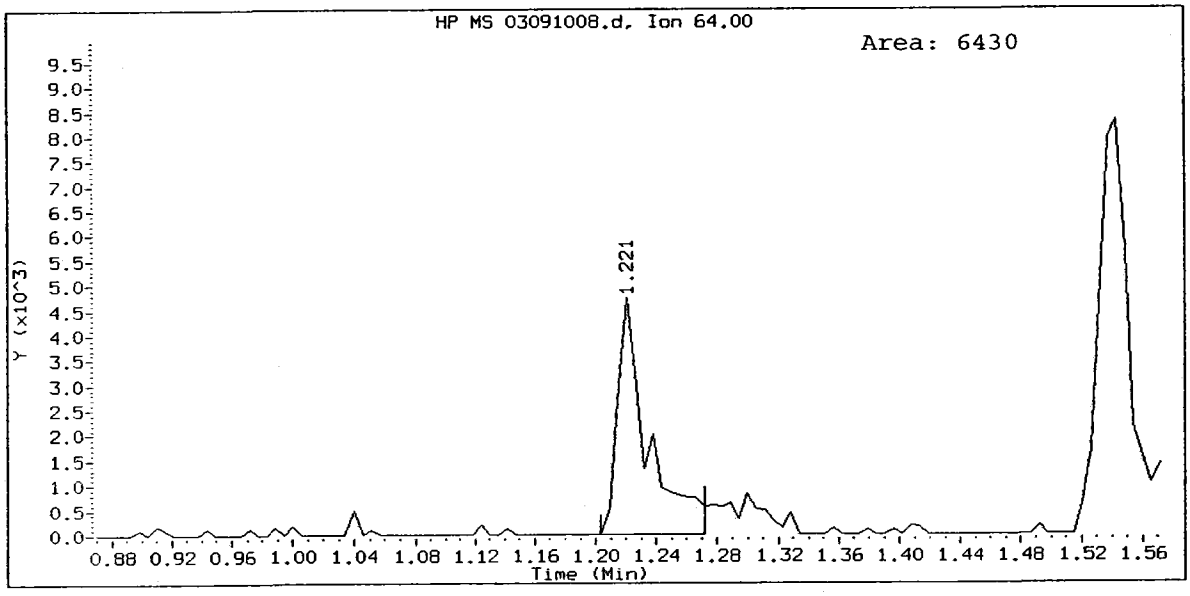
Vinyl Chloride Amount: 0.50







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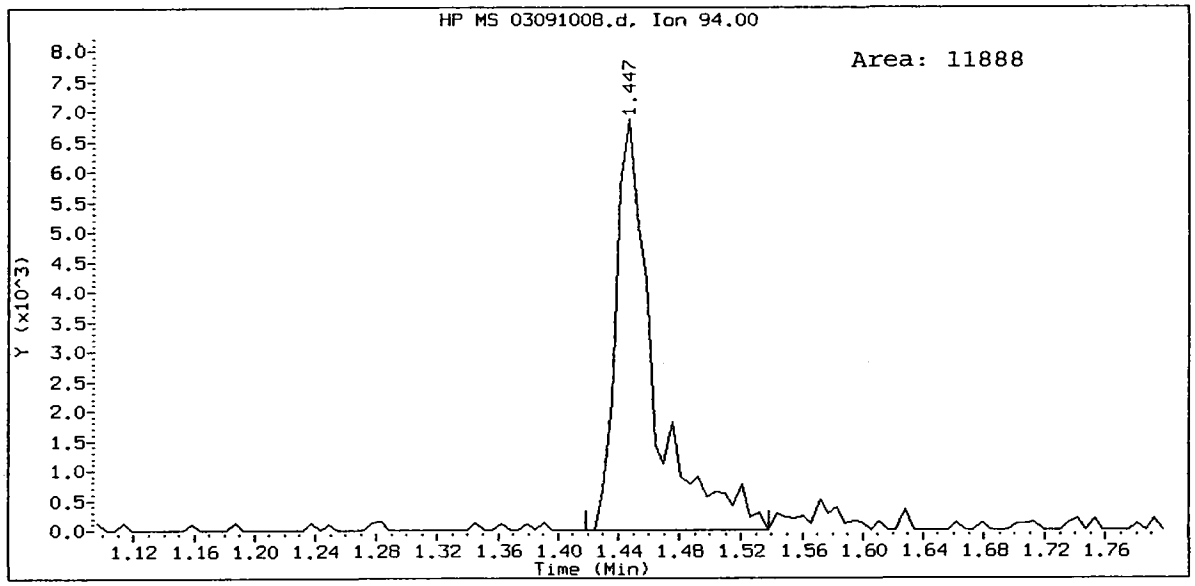
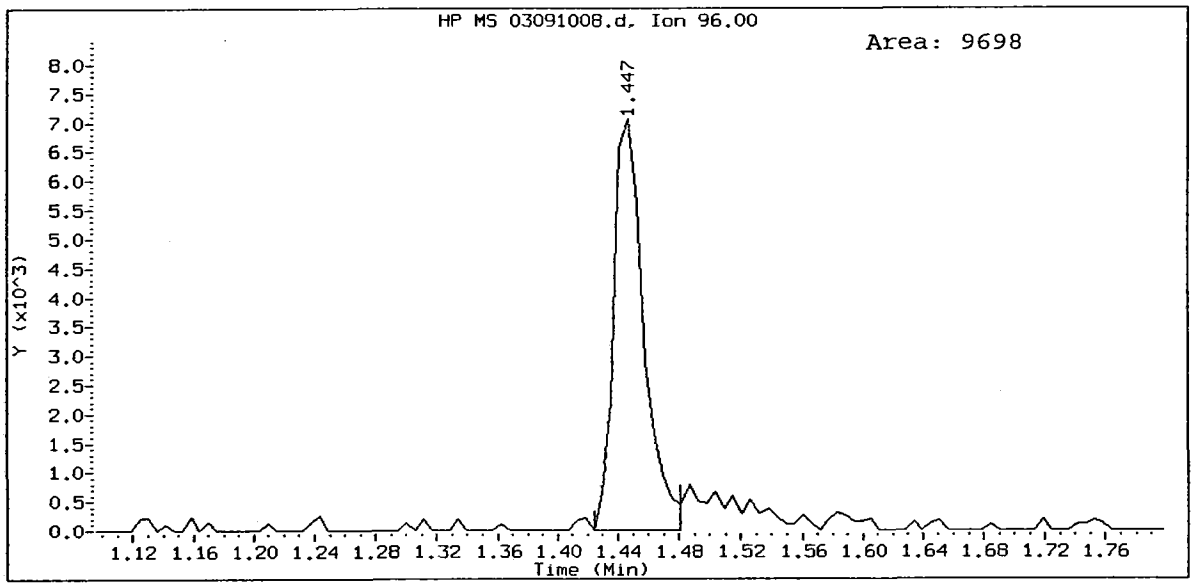
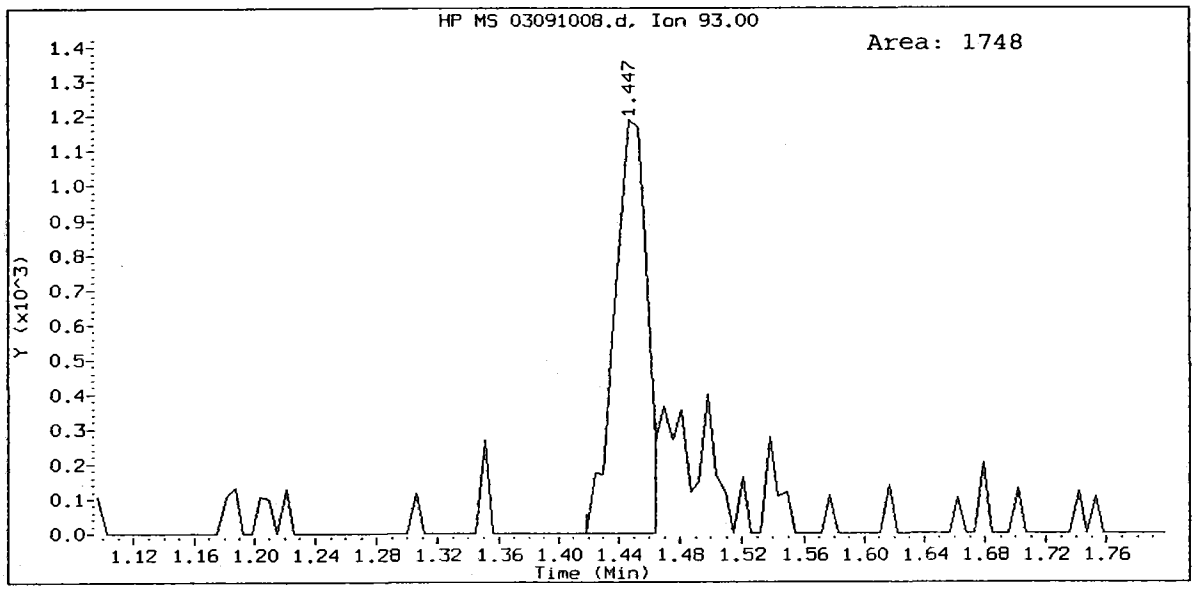
Bromomethane Amount: 0.49







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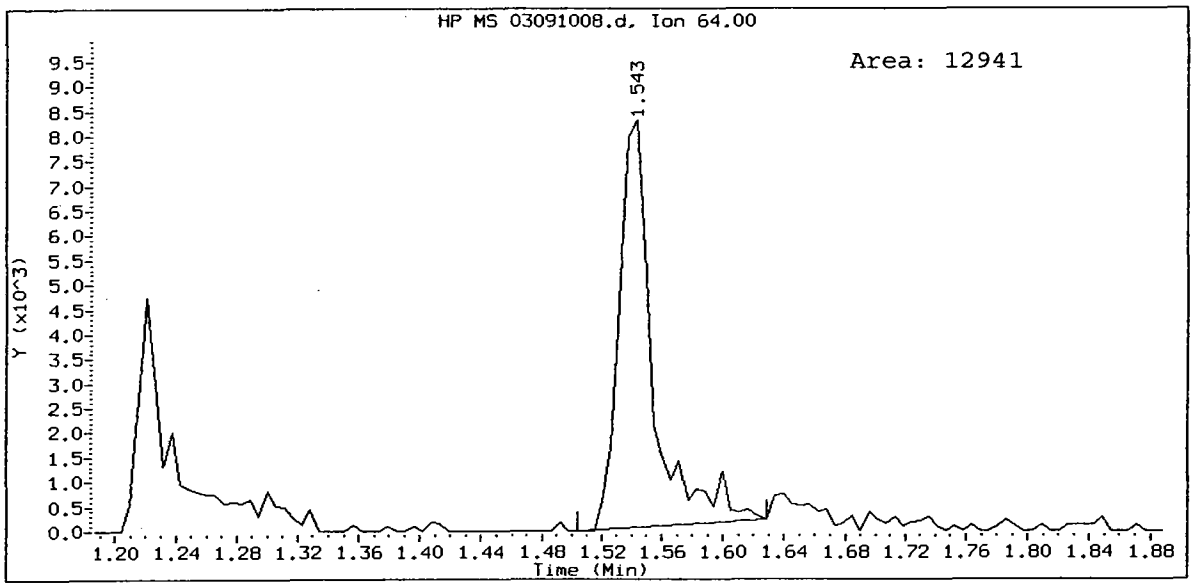
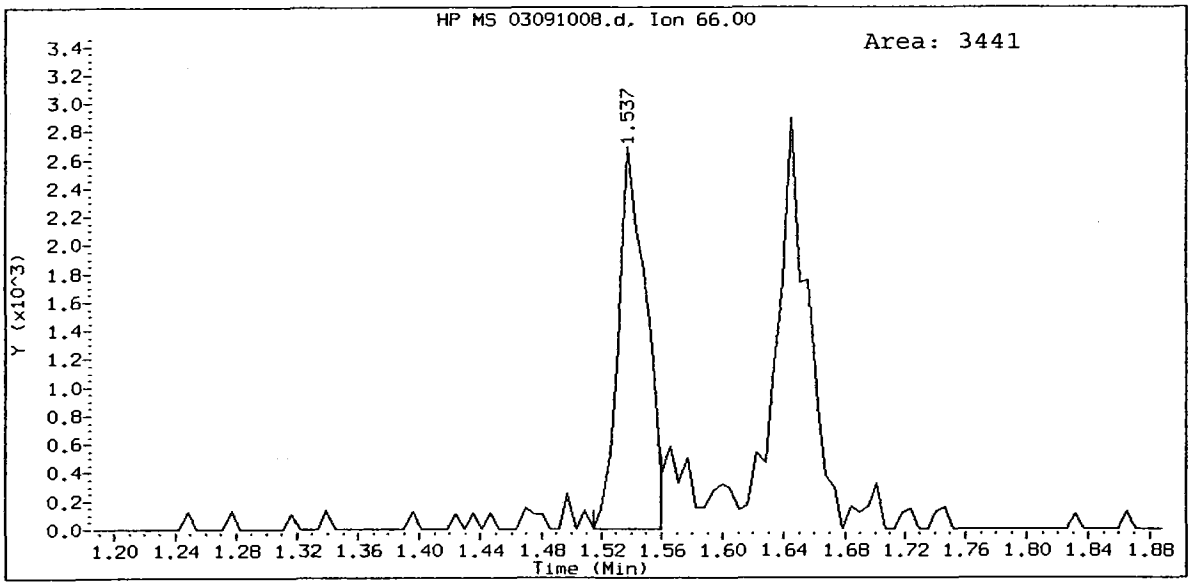
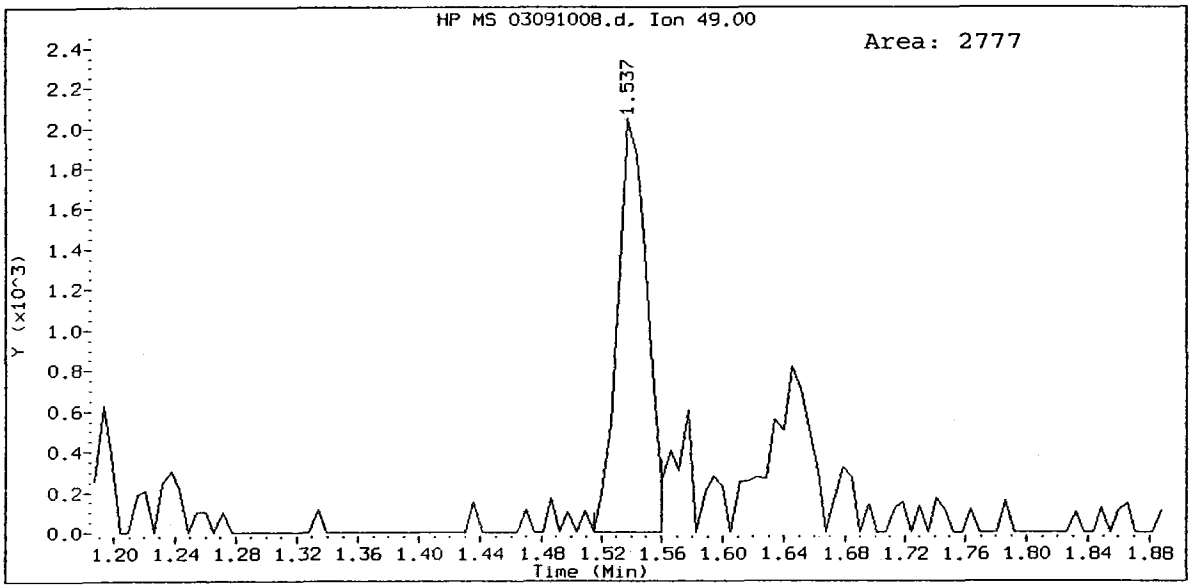
Chloroethane Amount: 0.44







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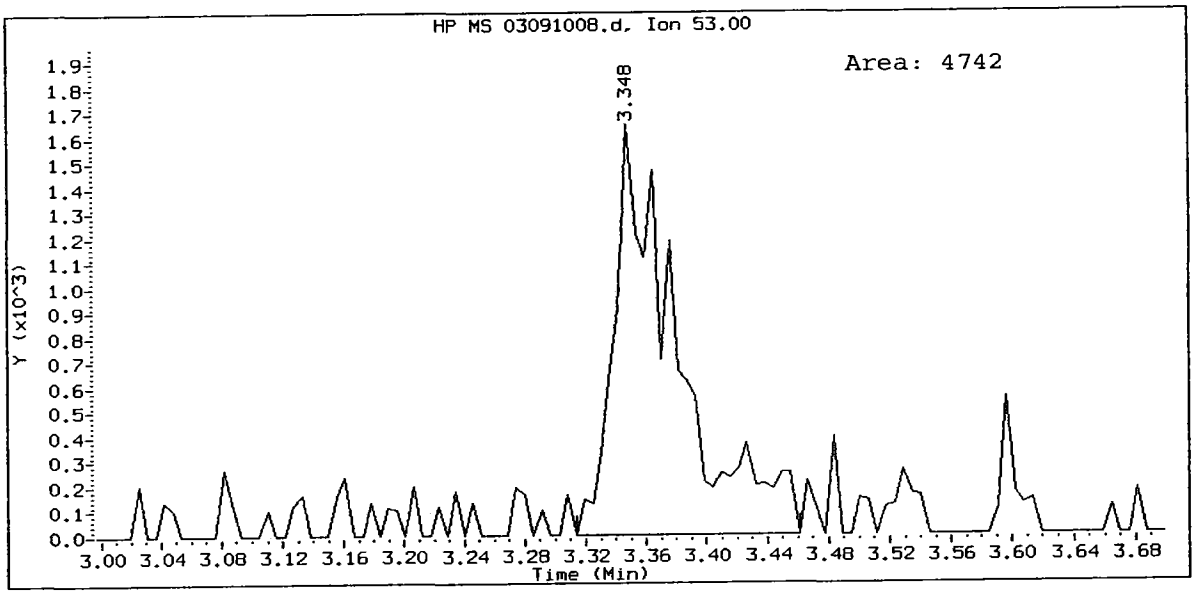
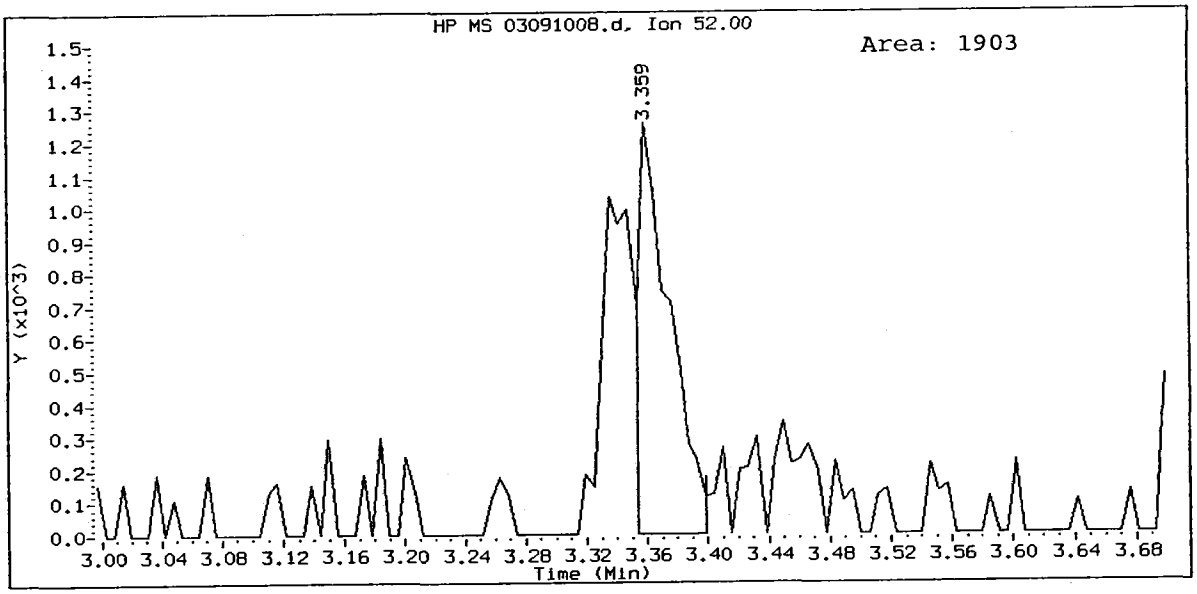
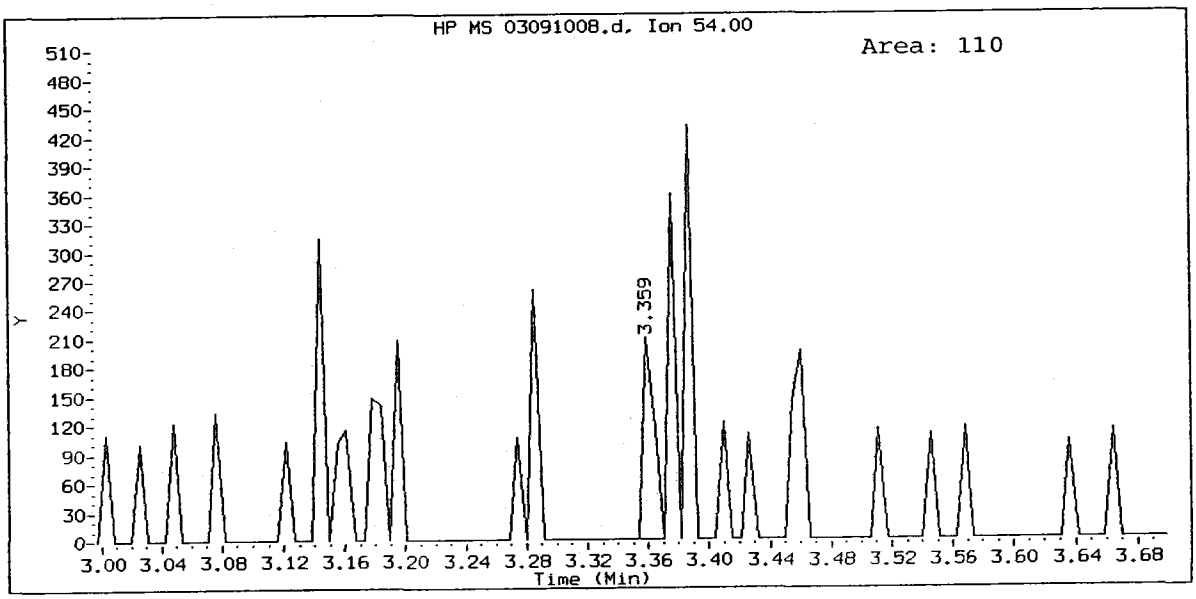
Acrylonitrile Amount: 0.63







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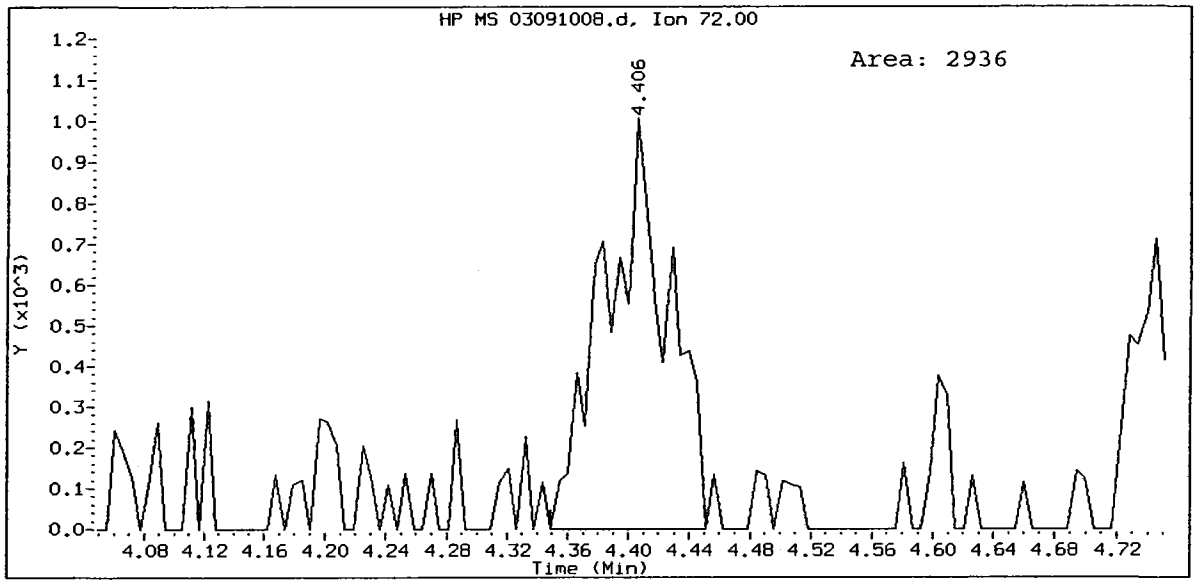
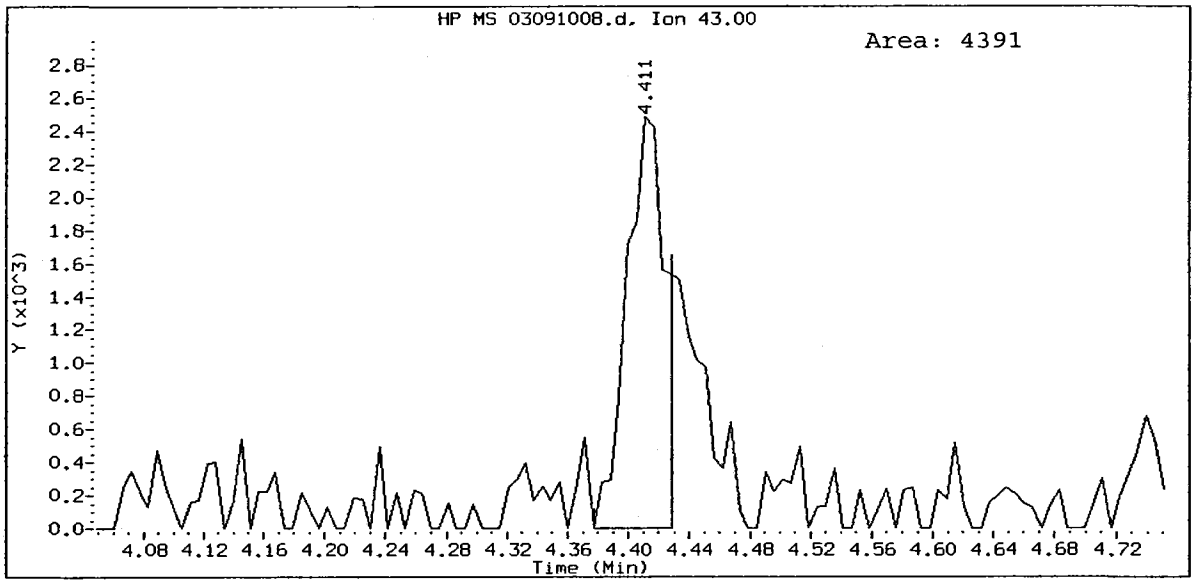
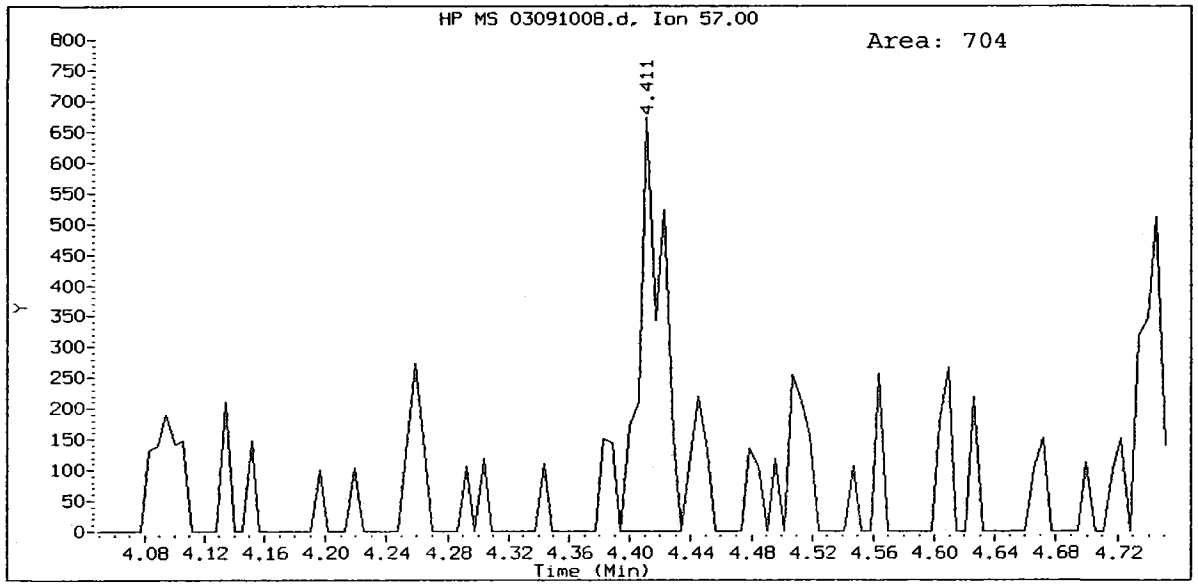
2-Butanone Amount: 0.65







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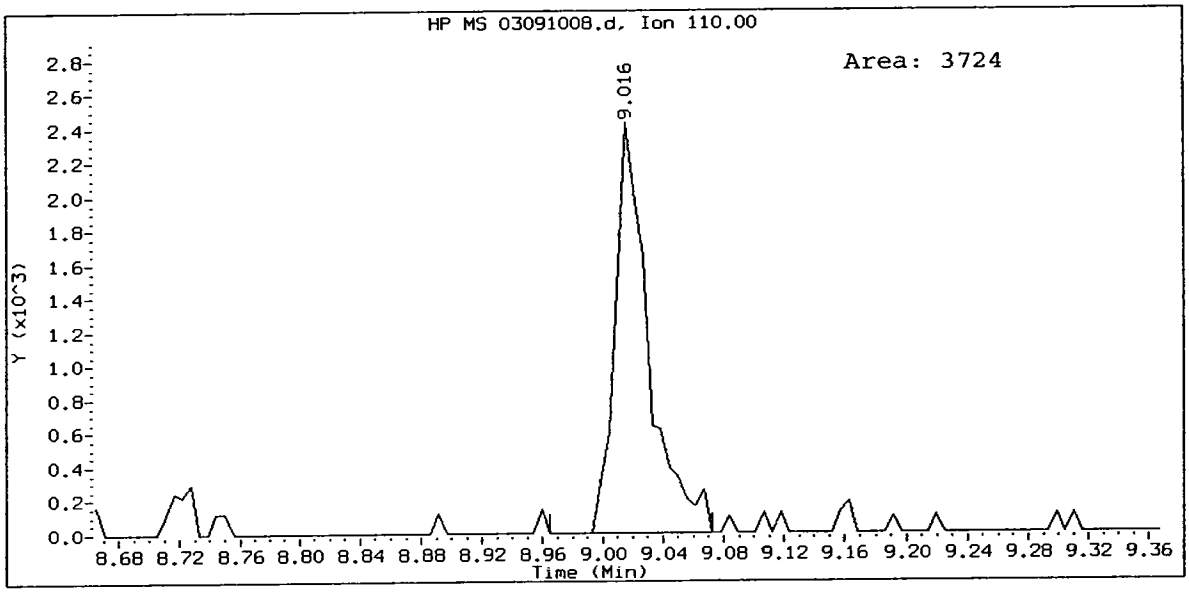
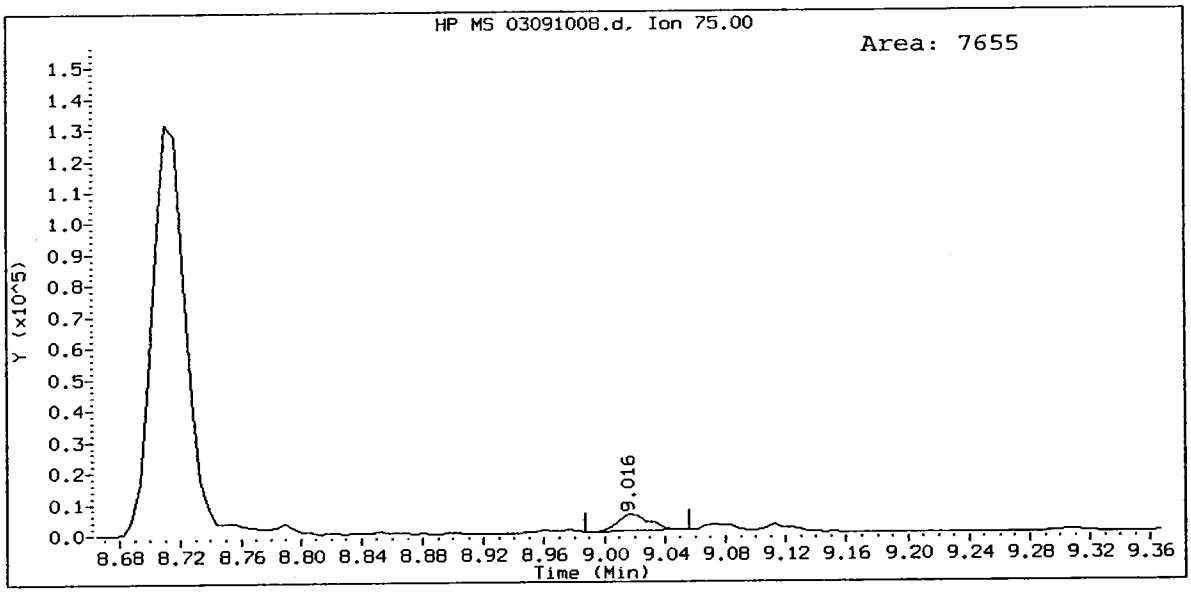
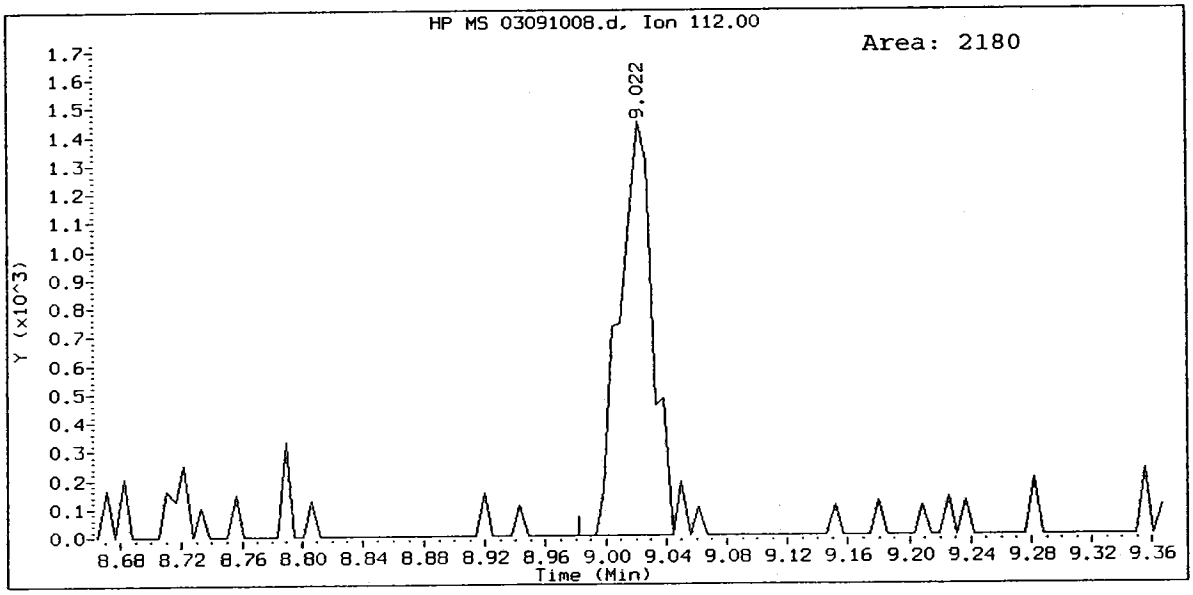
1,2,3-Trichloropropane Amount: 0.58







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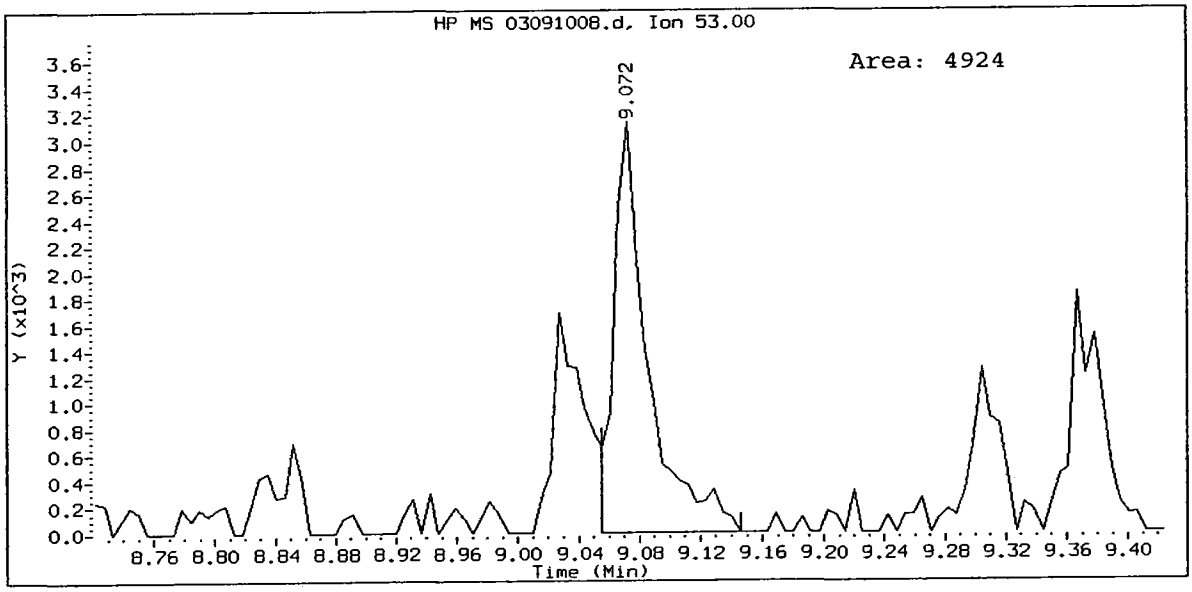
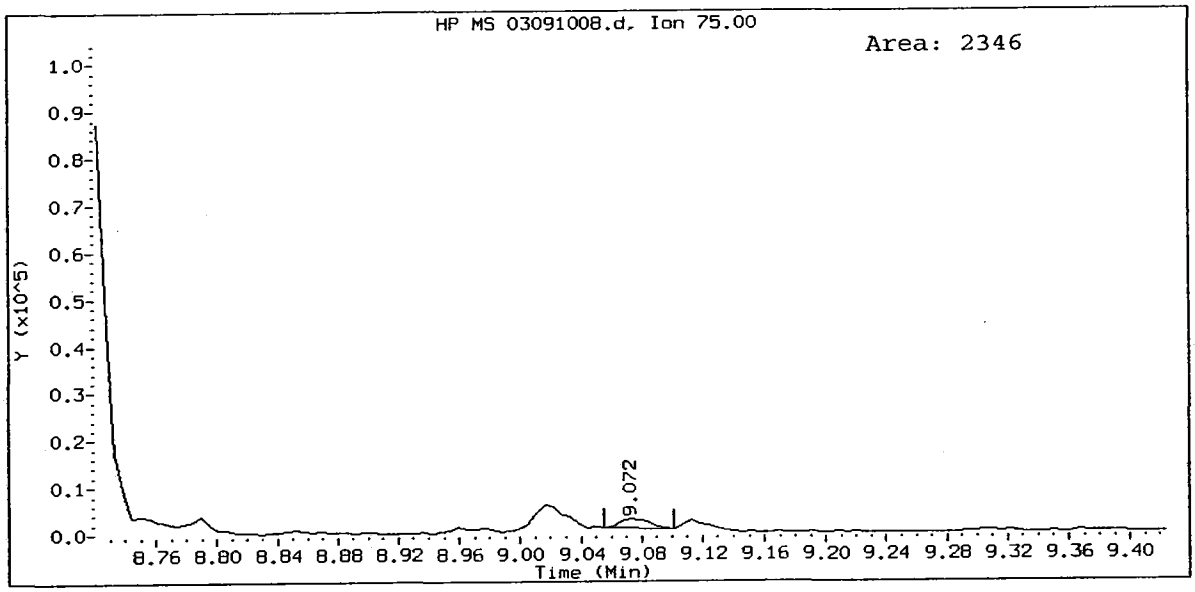
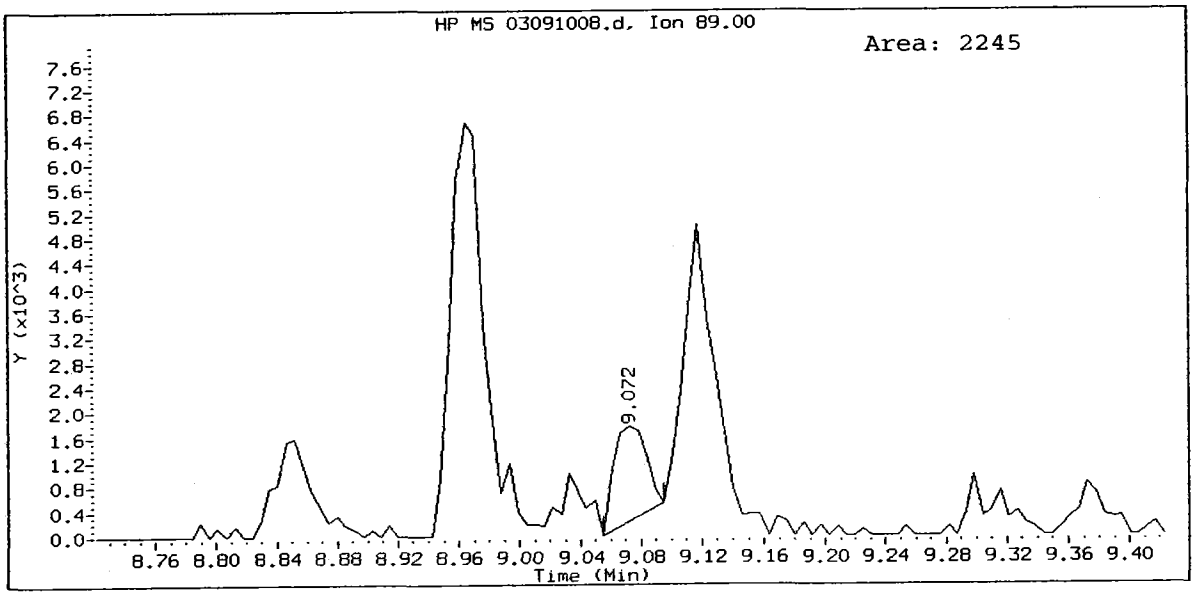
Trans-1,4-Dichloro 2-Butene Amount: 0.62







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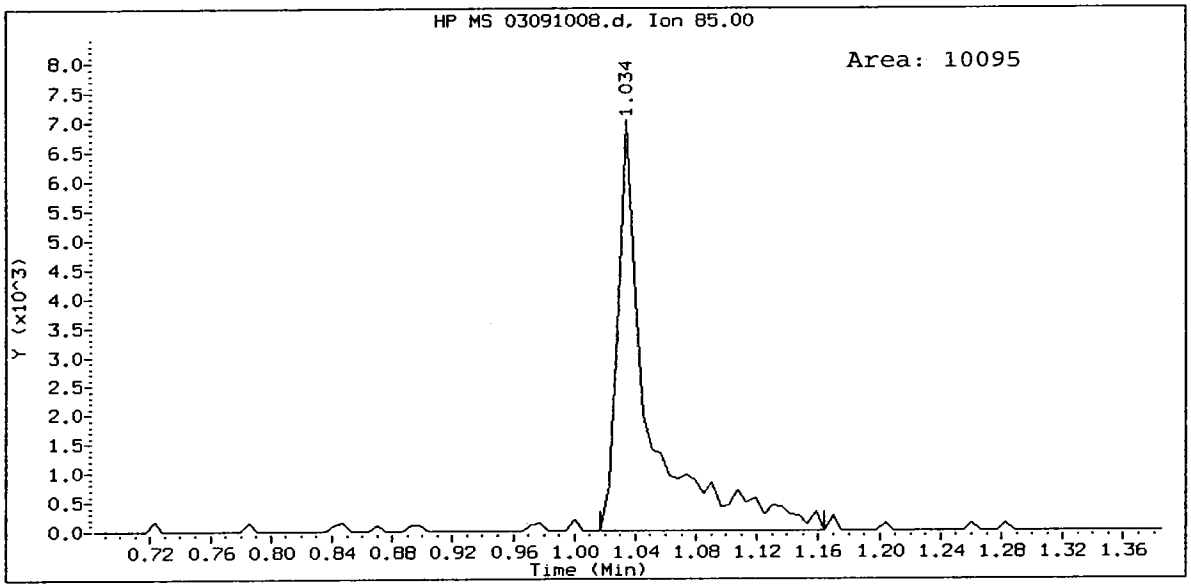
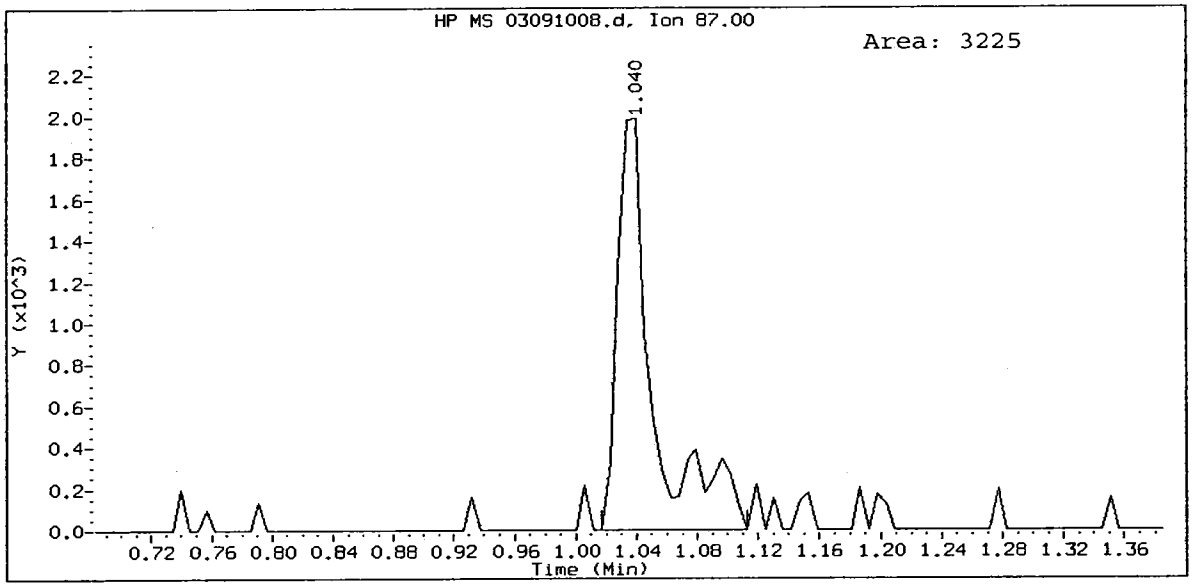
Dichlorodifluoromethane Amount: 0.48





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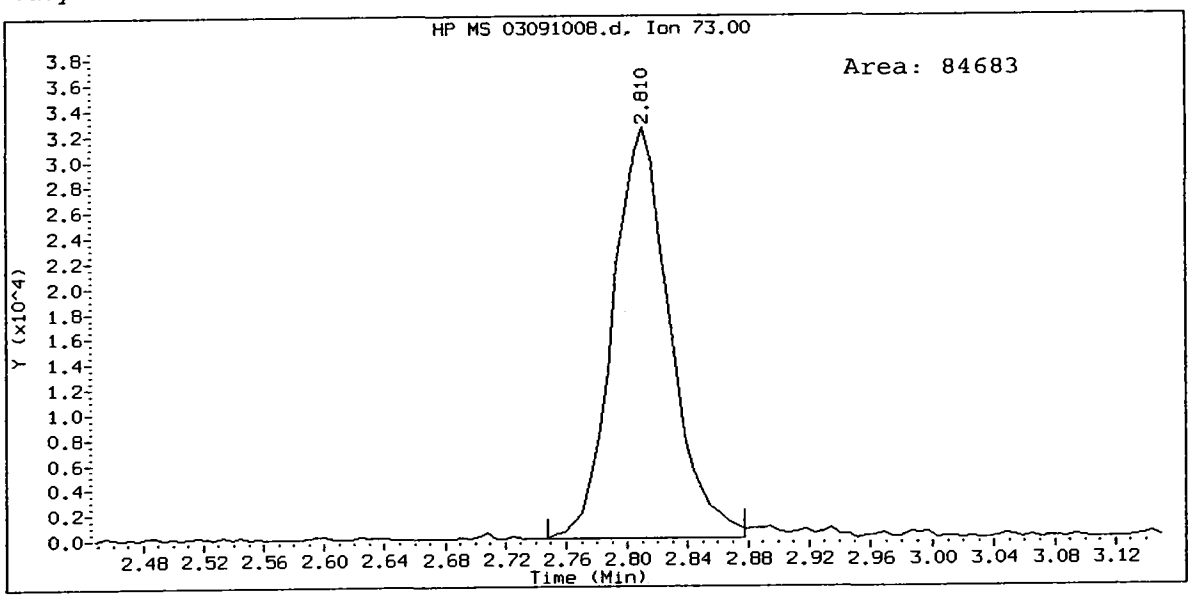
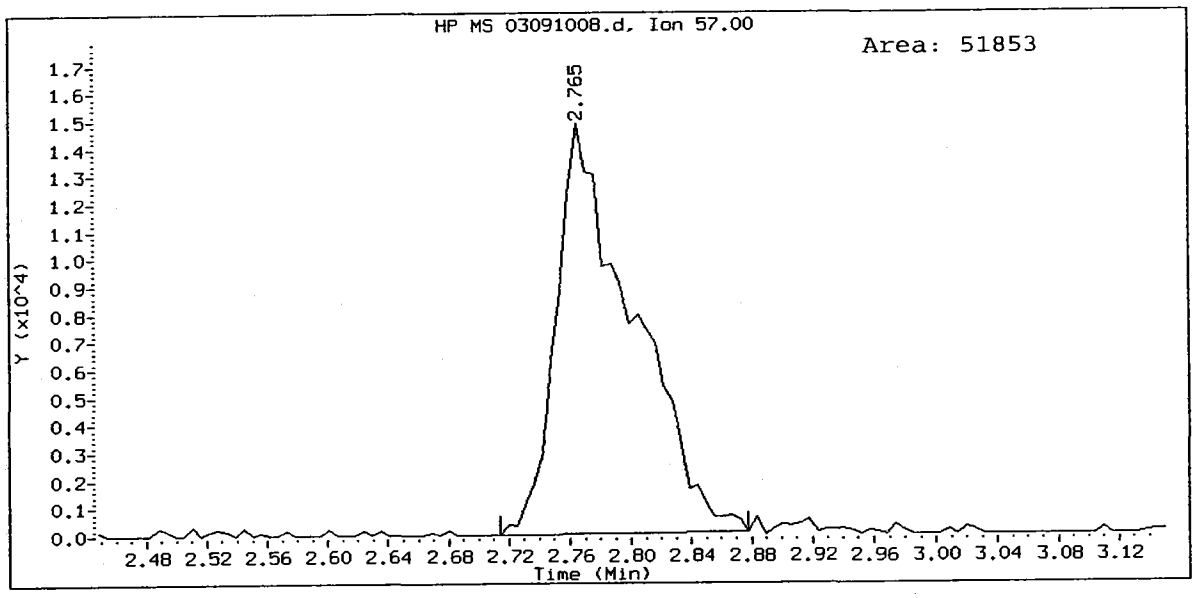
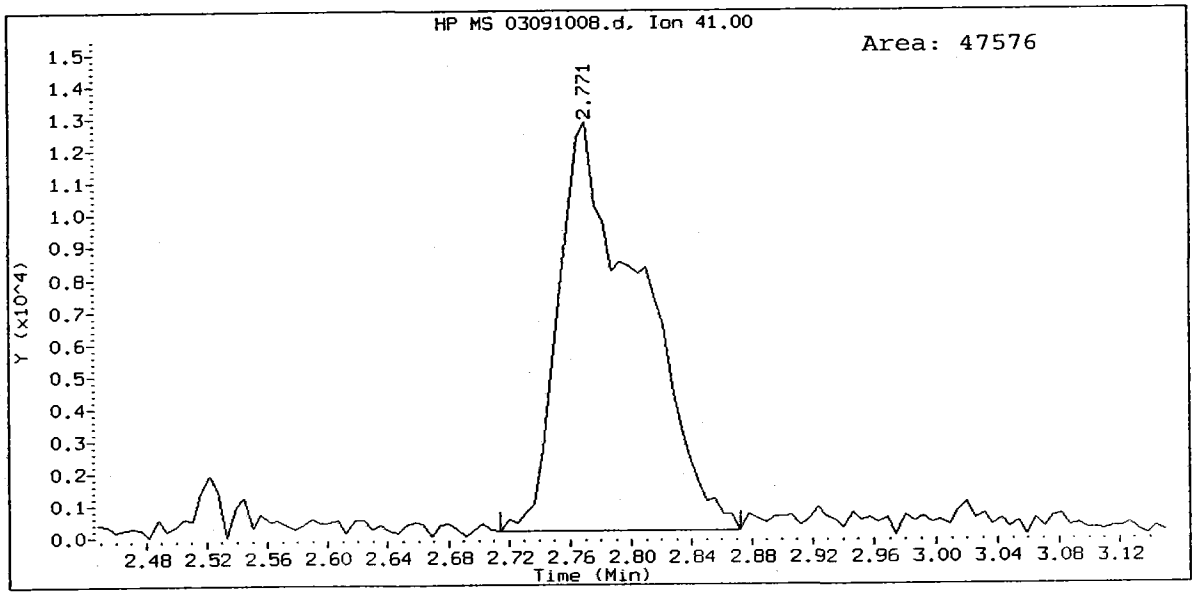
Methyl tert butyl ether Amount: 0.97







PC 3/10/10

Analytical Resources, Inc.

SW8260C 10 ML

Data file : /chem1/nt5.i/09MAR10.b/03091009.d
Lab Smp Id: 1 0309 Client Smp ID: 1 ppb
Inj Date : 09-MAR-2010 13:20
Operator : PC Inst ID: nt5.i
Smp Info : 1 0309,10,10,0,
Misc Info : 10-
Comment :
Method : /chem1/nt5.i/09MAR10.b/8260c030910L.m
Meth Date : 10-Mar-2010 09:57 paul Quant Type: ISTD
Cal Date : 09-MAR-2010 13:20 Cal File: 03091009.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	10.00000	Purge Volume (mL)
Sa	10.00000	Sample Amount (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Dichlorodifluoromethane	85	1.034	1.034	(0.218)	22478	1.00000	1.061(M)
2 Chloromethane	50	1.164	1.164	(0.246)	40696	1.00000	0.9628
3 Vinyl Chloride	62	1.221	1.221	(0.258)	46587	1.00000	1.001(M)
4 Bromomethane	94	1.447	1.447	(0.305)	23092	1.00000	0.9518(M)
5 Chloroethane	64	1.543	1.537	(0.326)	32953	1.00000	1.104(M)
6 Trichlorofluoromethane	101	1.645	1.645	(0.347)	47116	1.00000	1.032
12 Acrolein	56	2.324	2.318	(0.490)	1532	1.00000	0.9788
9 112Trichloro122Trifluoroethane	101	2.086	2.086	(0.440)	36560	1.00000	1.013
14 Acetone	43	2.595	2.584	(0.548)	8383	1.00000	1.552
7 1,1-Dichloroethene	96	2.041	2.041	(0.431)	34845	1.00000	1.021
11 Bromoethane	108	2.250	2.250	(0.475)	24496	1.00000	0.9758
10 Iodomethane	142	2.149	2.143	(0.453)	41697	1.00000	0.9699(M)
13 Methylene Chloride	84	2.528	2.527	(0.533)	48150	1.00000	1.286
18 Acrylonitrile	53	3.359	3.348	(0.709)	7876	1.00000	1.045(M)
16 Methyl tert butyl ether	73	2.810	2.799	(0.593)	172713	2.00000	1.971(M)
8 Carbon Disulfide	76	2.047	2.047	(0.432)	130035	1.00000	0.9876

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
	15 Trans-1,2-Dichloroethene	96	2.675	2.675	(0.564)	37634	1.00000	0.9888
	19 Vinyl Acetate	43	3.597	3.591	(0.759)	45569	1.00000	0.9328
	17 1,1-Dichloroethane	63	3.291	3.285	(0.694)	78471	1.00000	1.032
	29 2-Butanone	72	4.389	4.400	(0.926)	5347	1.00000	1.172(M)
	21 2,2-Dichloropropane	77	3.919	3.919	(0.827)	61763	1.00000	1.028
	20 Cis-1,2-Dichloroethene	96	3.829	3.823	(0.808)	39701	1.00000	0.9978
*	32 Pentafluorobenzene	168	4.739	4.739	(1.000)	533597	10.0000	
	23 Chloroform	83	4.100	4.100	(0.865)	64275	1.00000	0.9805
	22 Bromochloromethane	128	4.004	4.004	(0.845)	30249	2.00000	2.003
$	25 Dibromofluoromethane	111	4.264	4.264	(0.900)	250620	10.0000	10.057
	26 1,1,1-Trichloroethane	97	4.264	4.264	(0.900)	55061	1.00000	0.9771
	28 1,1-Dichloropropene	75	4.389	4.383	(0.846)	57052	1.00000	0.9928
	24 Carbon Tetrachloride	117	4.202	4.202	(0.810)	44951	1.00000	0.9839
$	31 d4-1,2-Dichloroethane	65	4.728	4.728	(0.998)	290105	10.0000	10.232
	33 1,2-Dichloroethane	62	4.785	4.790	(0.923)	42886	1.00000	1.003
	30 Benzene	78	4.604	4.604	(0.888)	173866	1.00000	1.024
*	35 1,4-Difluorobenzene	114	5.186	5.186	(1.000)	1008019	10.0000	
	34 Trichloroethene	130	5.135	5.135	(0.990)	37165	1.00000	1.002
	38 1,2-Dichloropropane	63	5.577	5.577	(1.075)	43429	1.00000	0.9845
	39 Bromodichloromethane	83	5.650	5.650	(1.089)	44146	1.00000	0.9535
	37 Dibromomethane	93	5.486	5.486	(1.058)	15780	1.00000	0.9766
	40 2-Chloroethyl Vinyl Ether	63	6.171	6.170	(1.190)	16874	1.00000	0.9383
	45 4-Methyl-2-Pentanone	58	6.748	6.742	(1.301)	8636	1.00000	0.9593
	41 Cis 1,3-dichloropropene	75	6.193	6.193	(1.194)	63195	1.00000	1.002
$	42 d8-Toluene	98	6.346	6.346	(1.224)	1163396	10.0000	9.926
	43 Toluene	92	6.391	6.391	(1.232)	101720	1.00000	0.9781
	46 Trans 1,3-Dichloropropene	75	6.753	6.753	(1.302)	47282	1.00000	0.9426
	51 2-Hexanone	43	7.460	7.455	(0.976)	14017	1.00000	0.9803
	47 1,1,2-Trichloroethane	97	6.883	6.883	(1.327)	24047	1.00000	0.9801
	49 1,3-Dichloropropane	76	7.104	7.104	(0.929)	46082	1.00000	0.9891
	44 Tetrachloroethene	166	6.702	6.708	(0.876)	32353	1.00000	1.011
	48 Chlorodibromomethane	129	7.019	7.019	(0.918)	24944	1.00000	0.9928
	50 1,2-Dibromoethane	107	7.195	7.200	(1.387)	21554	1.00000	0.9784
*	52 d5-Chlorobenzene	117	7.647	7.647	(1.000)	848670	10.0000	
	53 Chlorobenzene	112	7.664	7.664	(1.002)	98654	1.00000	1.008
	54 Ethyl Benzene	91	7.709	7.709	(1.008)	194864	1.00000	1.064
	55 1,1,1,2-Tetrachloroethane	131	7.732	7.726	(1.011)	31531	1.00000	1.003
	56 m,p-xylene	106	7.839	7.839	(1.025)	139395	2.00000	2.059
	57 o-Xylene	106	8.201	8.201	(1.072)	67818	1.00000	1.010
	58 Styrene	104	8.252	8.252	(1.079)	102800	1.00000	0.9597
	60 Isopropyl Benzene	105	8.484	8.484	(0.874)	180788	1.00000	1.081
	59 Bromoform	173	8.247	8.247	(0.849)	11700	1.00000	1.019
	64 1,1,2,2-Tetrachloroethane	83	8.920	8.920	(0.918)	26040	1.00000	1.001
$	61 4-Bromofluorobenzene	95	8.716	8.710	(1.140)	411410	10.0000	10.186
	66 1,2,3-Trichloropropane	110	9.022	9.016	(0.929)	6458	1.00000	1.011
	68 Trans-1,4-Dichloro 2-Butene	53	9.073	9.072	(0.934)	8615	1.00000	1.081
	63 N-Propyl Benzene	91	8.852	8.852	(0.911)	214868	1.00000	1.072

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
	62 Bromobenzene	156	8.790	8.790	(0.905)	33613	1.00000	1.016
	67 1,3,5-Trimethyl Benzene	105	9.039	9.039	(0.931)	140367	1.00000	1.035
	65 2-Chloro Toluene	91	8.965	8.965	(0.923)	120343	1.00000	1.000
	69 4-Chloro Toluene	91	9.118	9.118	(0.939)	124940	1.00000	1.013
	70 T-Butyl Benzene	119	9.310	9.310	(0.959)	117812	1.00000	1.035
	71 1,2,4-Trimethylbenzene	105	9.378	9.378	(0.966)	139568	1.00000	1.027
	72 S-Butyl Benzene	105	9.474	9.468	(0.976)	181216	1.00000	1.037
	73 4-Isopropyl Toluene	119	9.610	9.610	(0.990)	136476	1.00000	1.007
	74 1,3-Dichlorobenzene	146	9.638	9.638	(0.992)	68065	1.00000	1.011
*	75 d4-1,4-Dichlorobenzene	152	9.712	9.712	(1.000)	392019	10.0000	
	76 1,4-Dichlorobenzene	146	9.723	9.723	(1.001)	67471	1.00000	0.9770
	77 N-Butyl Benzene	91	9.995	9.995	(1.029)	133804	1.00000	0.9914
$	78 d4-1,2-Dichlorobenzene	152	10.091	10.091	(1.039)	346747	10.0000	10.046
	79 1,2-Dichlorobenzene	146	10.097	10.102	(1.040)	59591	1.00000	0.9759
	81 1,2-Dibromo 3-Chloropropane	75	10.849	10.843	(1.117)	4654	1.00000	1.064
	83 1,2,4-Trichlorobenzene	180	11.494	11.494	(1.183)	36433	1.00000	0.9923
	82 Hexachloro 1,3-Butadiene	225	11.488	11.488	(1.183)	13586	1.00000	0.9621
	84 Naphthalene	128	11.799	11.799	(1.215)	72685	1.00000	0.9605
	85 1,2,3-Trichlorobenzene	180	11.975	11.974	(1.233)	29459	1.00000	1.009

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt5.i
Lab File ID: 03091009.d
Lab Smp Id: 1 0309
Analysis Type: VOA
Quant Type: ISTD
Operator: PC
Method File: /chem1/nt5.i/09MAR10.b/8260c030910L.m
Misc Info: 10-

Calibration Date: 09-MAR-2010
Calibration Time: 14:12
Client Smp ID: 1 ppb
Level: LOW
Sample Type: WATER

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
32 Pentafluorobenzen	526014	263007	1052028	533597	1.44
35 1,4-Difluorobenze	985179	492590	1970358	1008019	2.32
52 d5-Chlorobenzene	845025	422512	1690050	848670	0.43
75 d4-1,4-Dichlorobe	383446	191723	766892	392019	2.24

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
32 Pentafluorobenzen	4.74	4.24	5.24	4.74	0.00
35 1,4-Difluorobenze	5.19	4.69	5.69	5.19	0.00
52 d5-Chlorobenzene	7.65	7.15	8.15	7.65	0.00
75 d4-1,4-Dichlorobe	9.71	9.21	10.21	9.71	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

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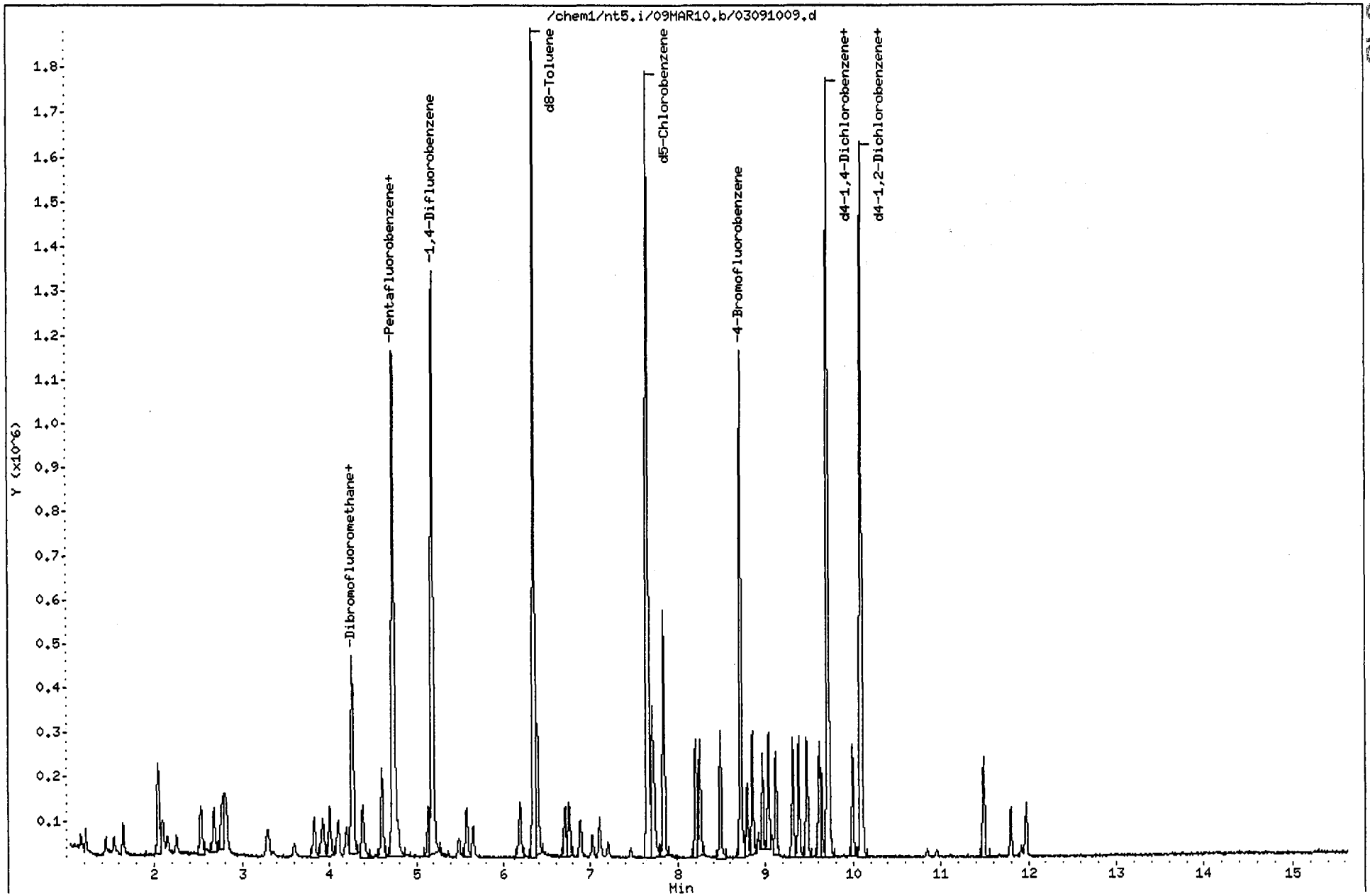
Date : 09-MAR-2010 13:20
Client ID: 1 ppb
Sample Info: 1 0309,10,10,0,

Instrument: nt5.i

Operator: PC
Column diameter: 0.18

Column phase: RTXVMS



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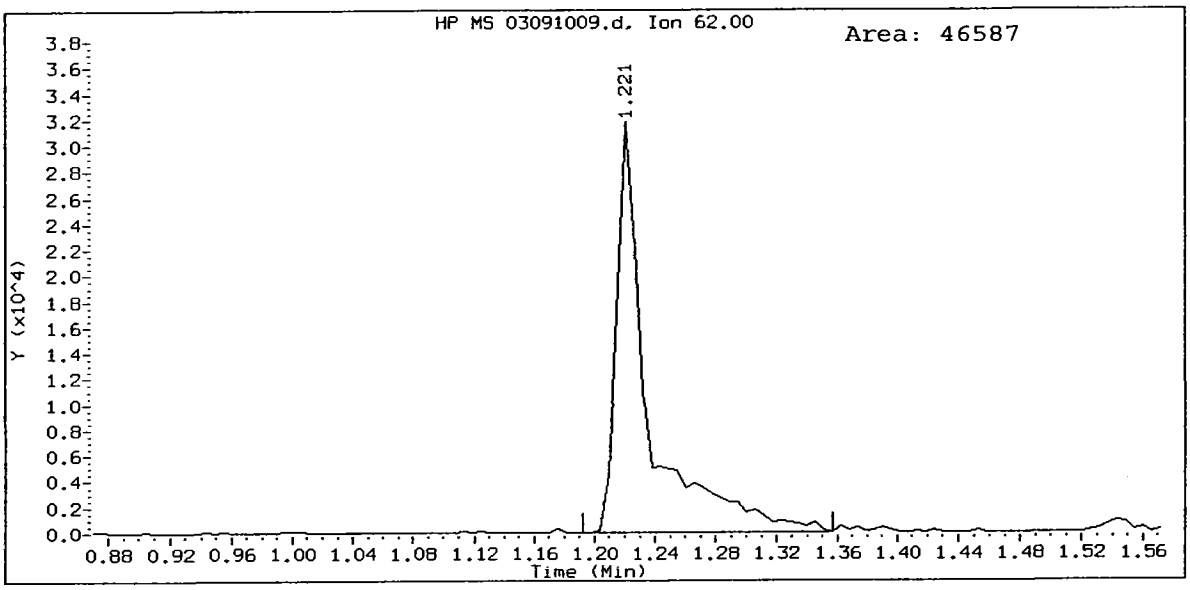
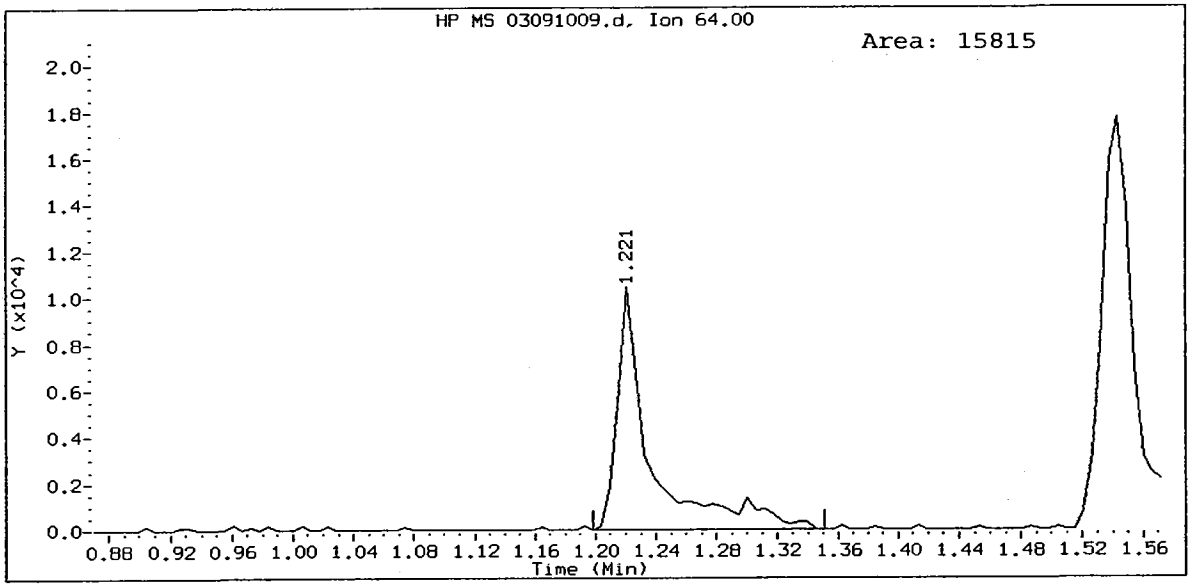
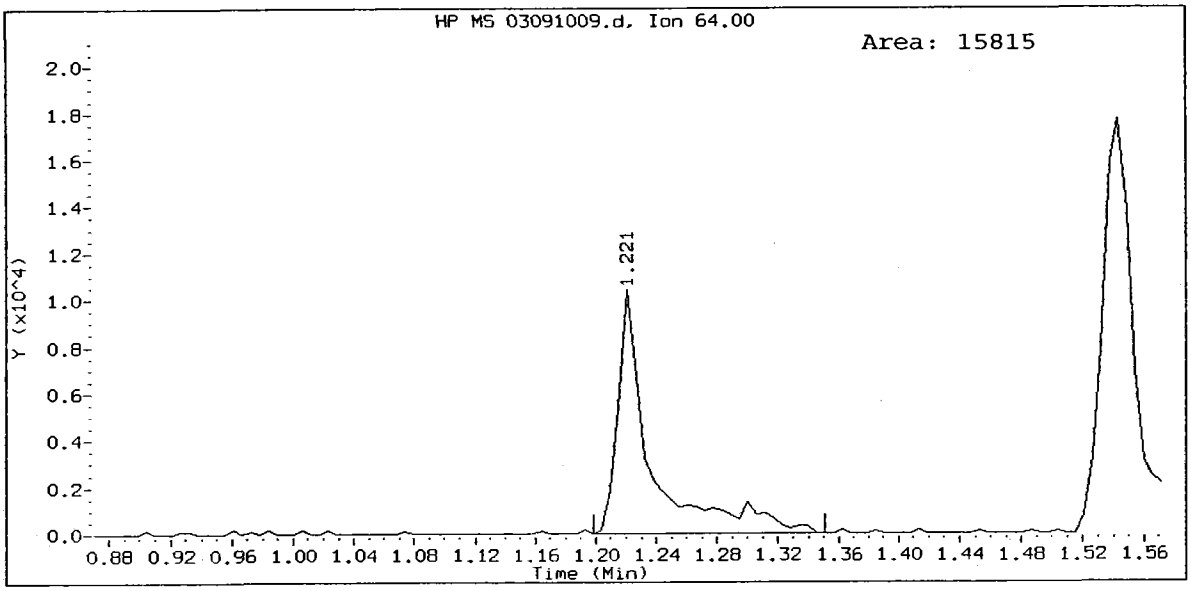
Vinyl Chloride Amount: 1.00







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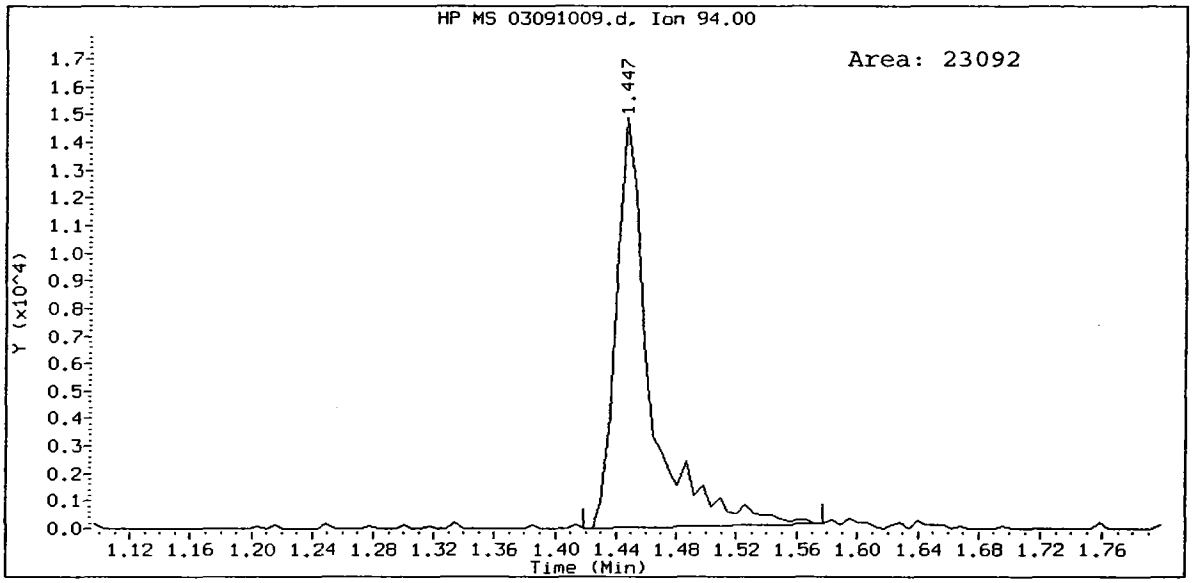
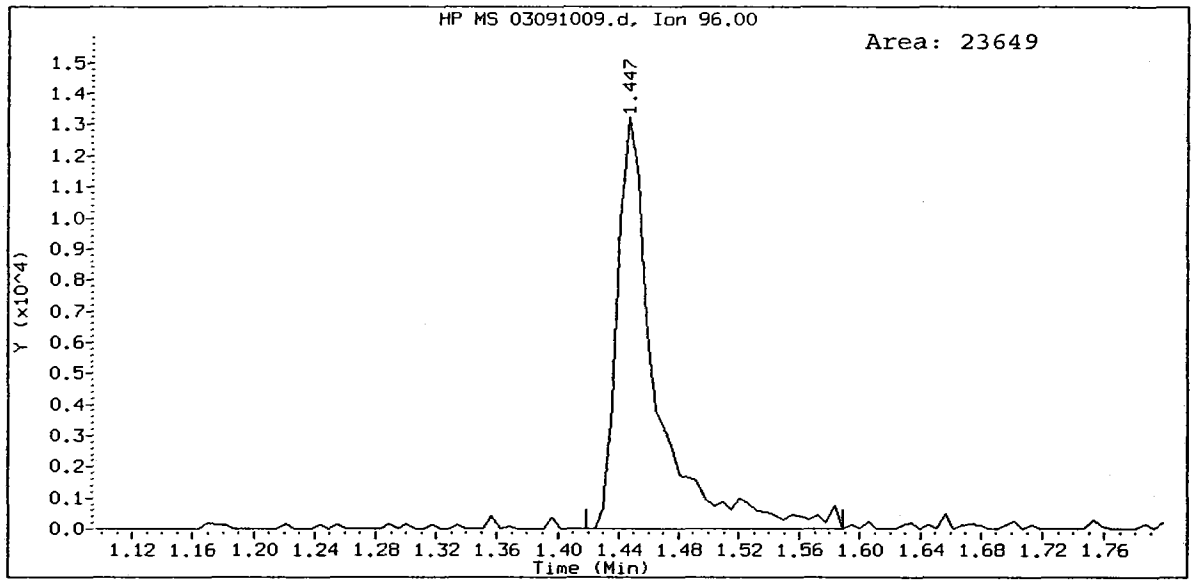
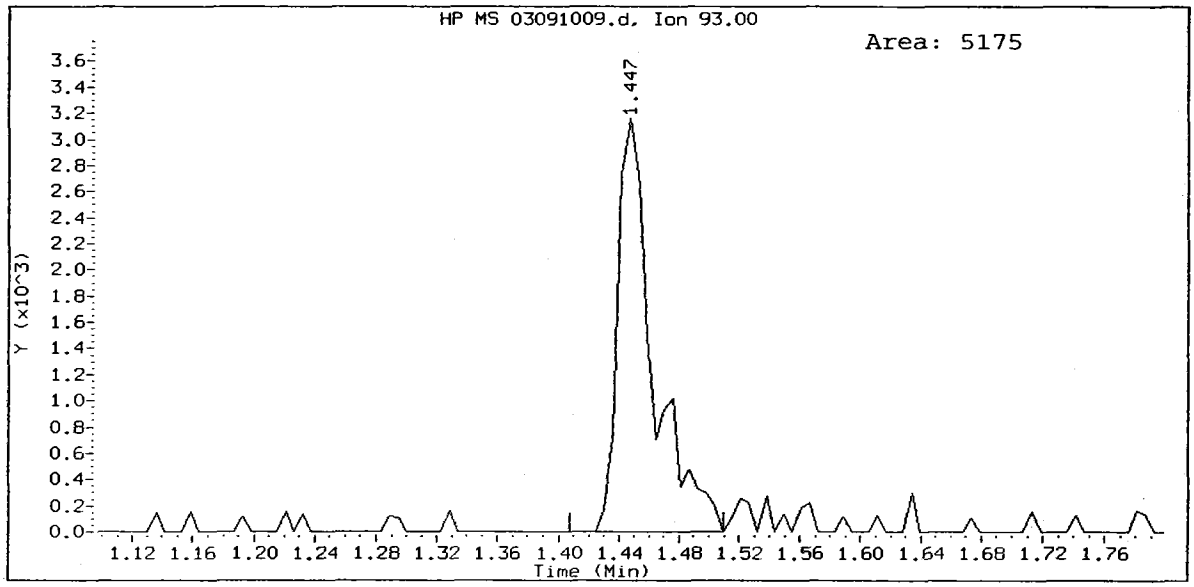
Bromomethane Amount: 0.95







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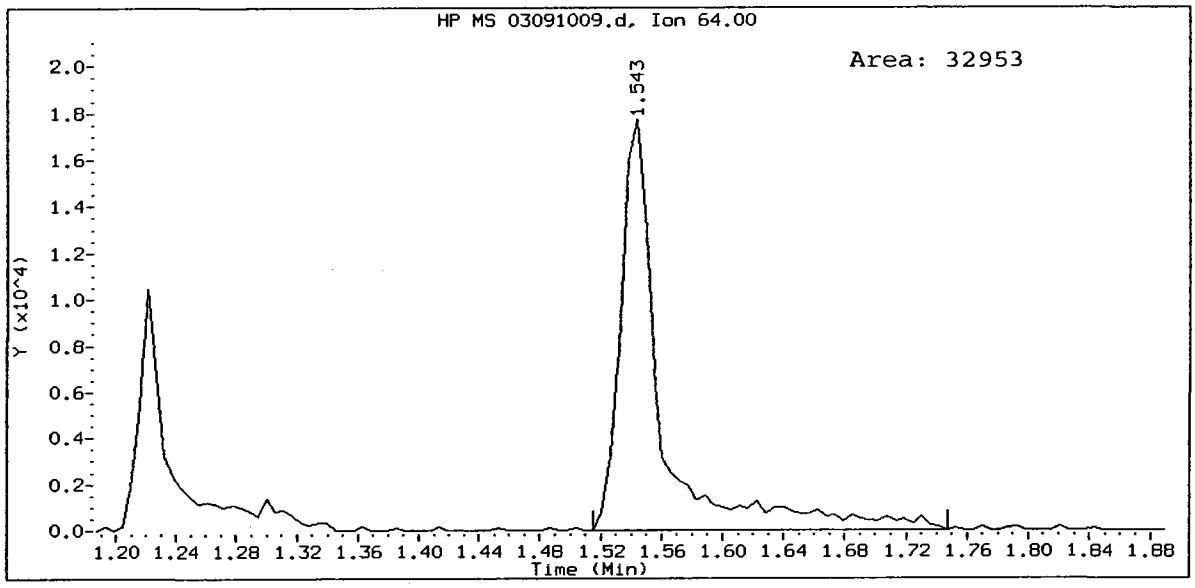
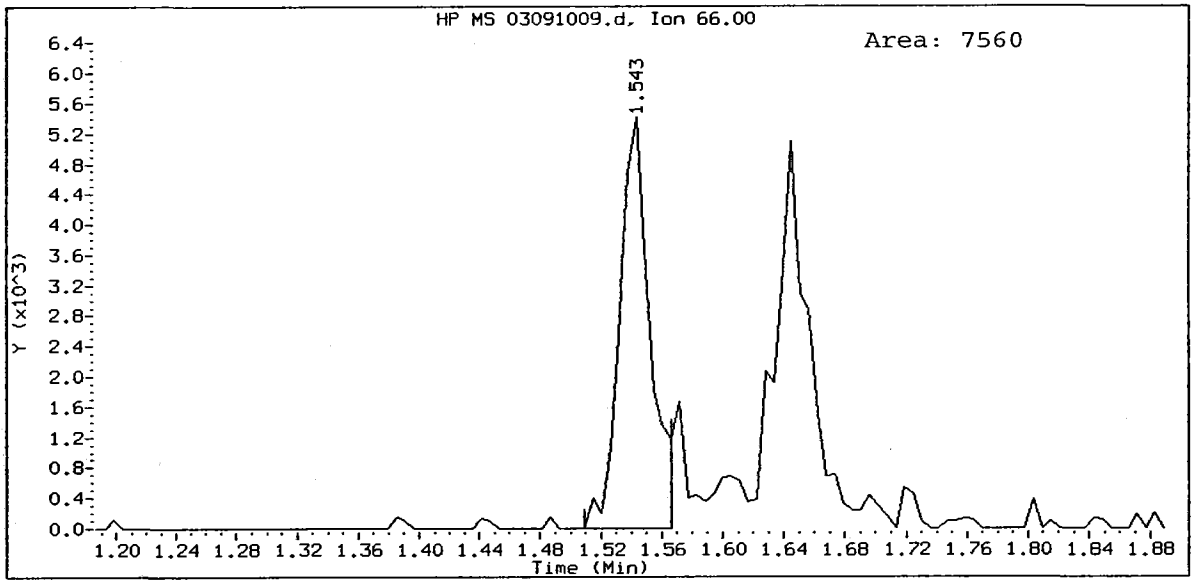
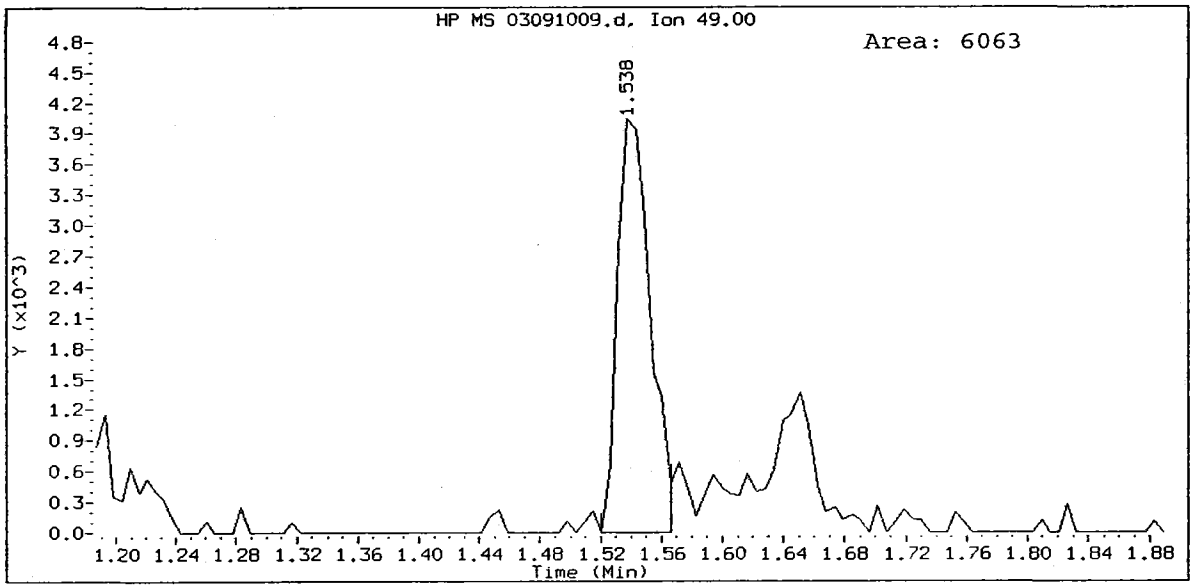
Chloroethane Amount: 1.10







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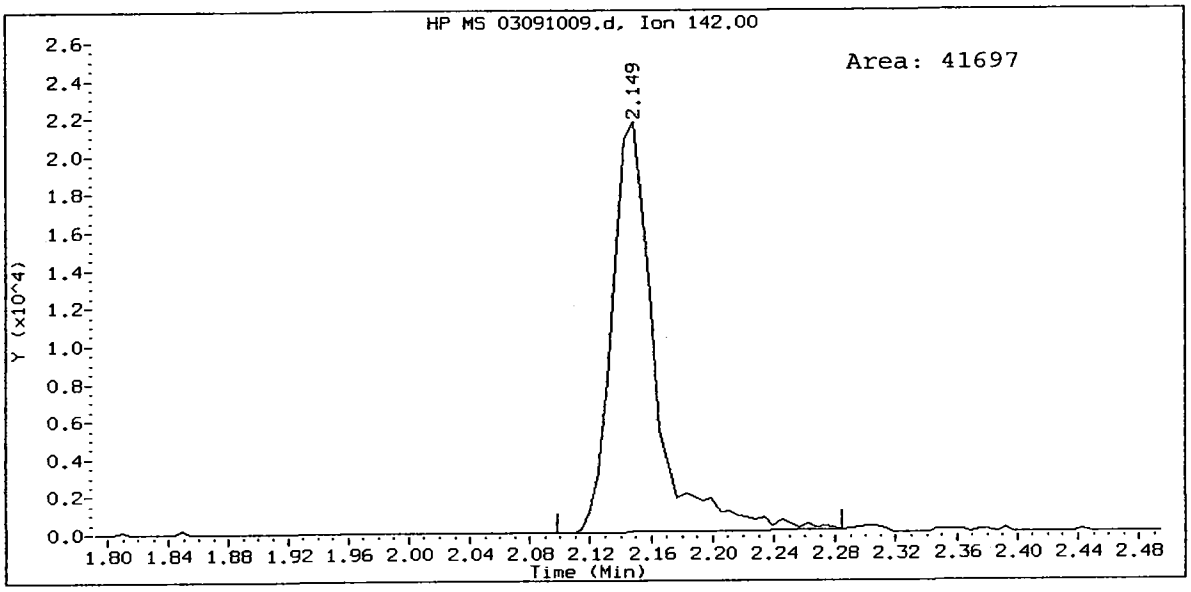
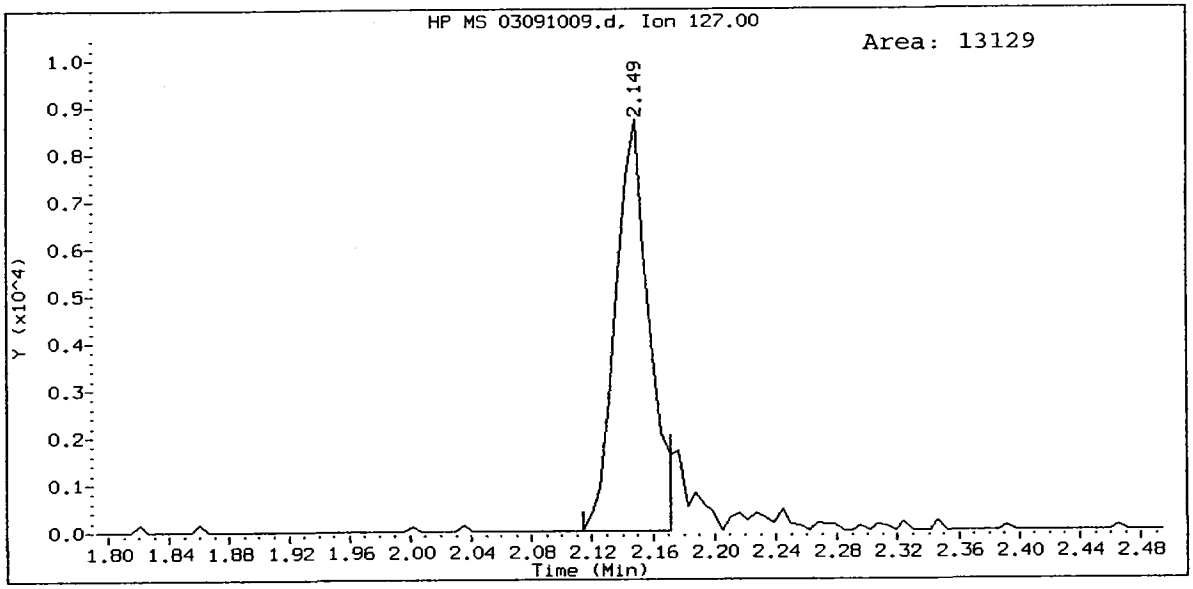
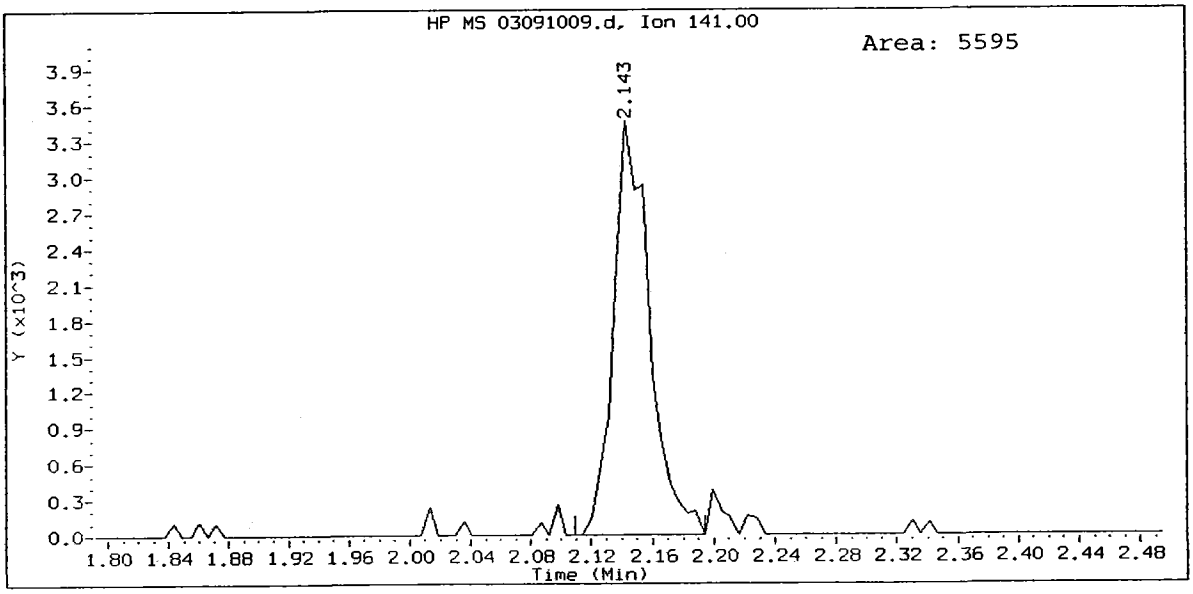
Iodomethane Amount: 0.97







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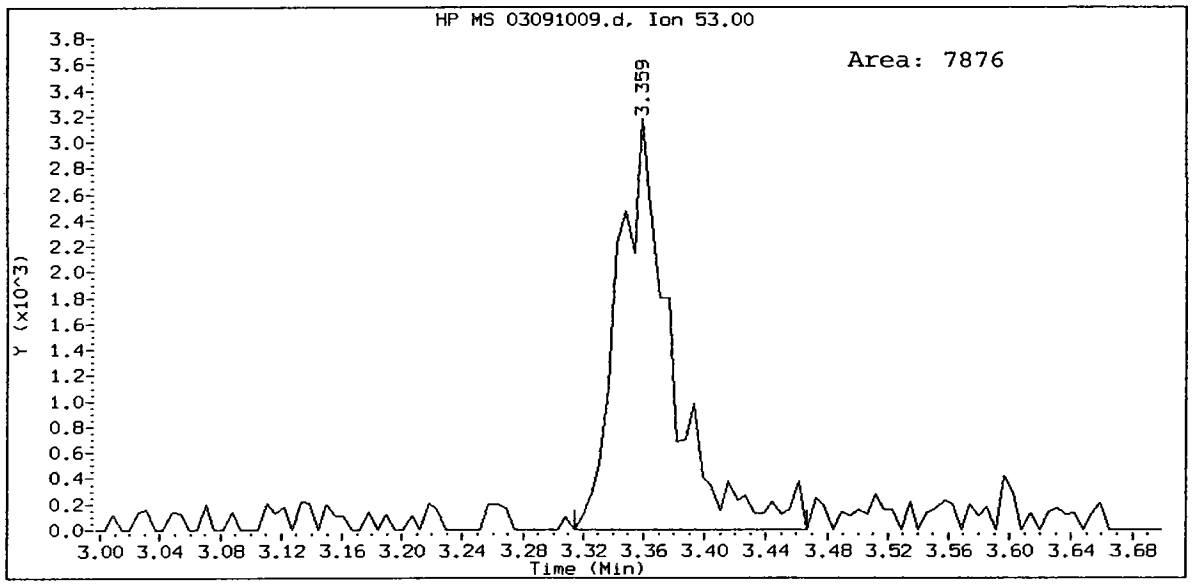
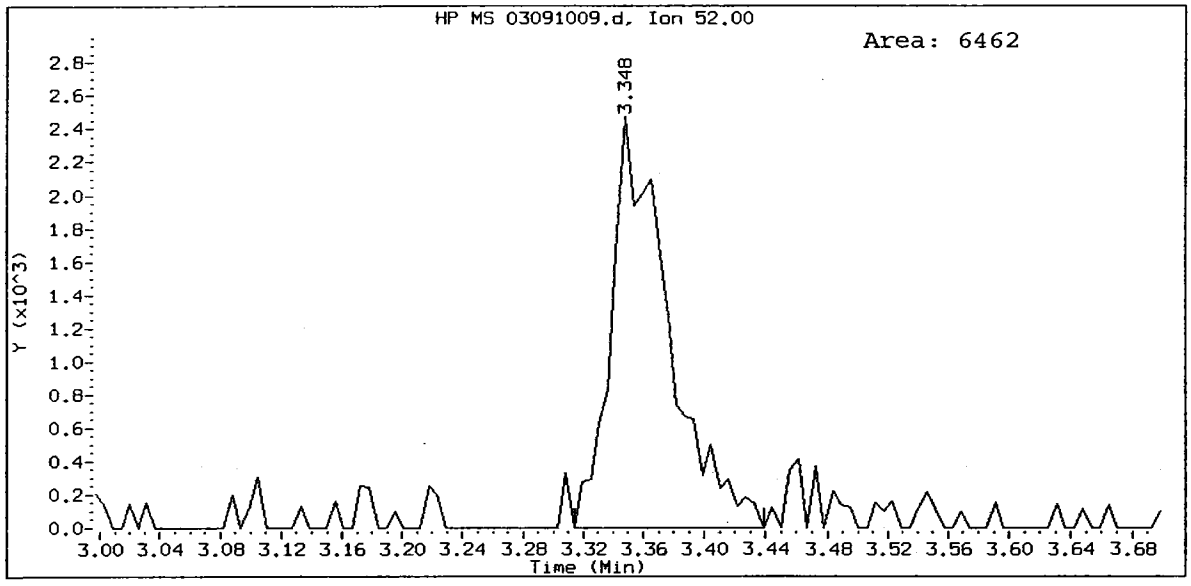
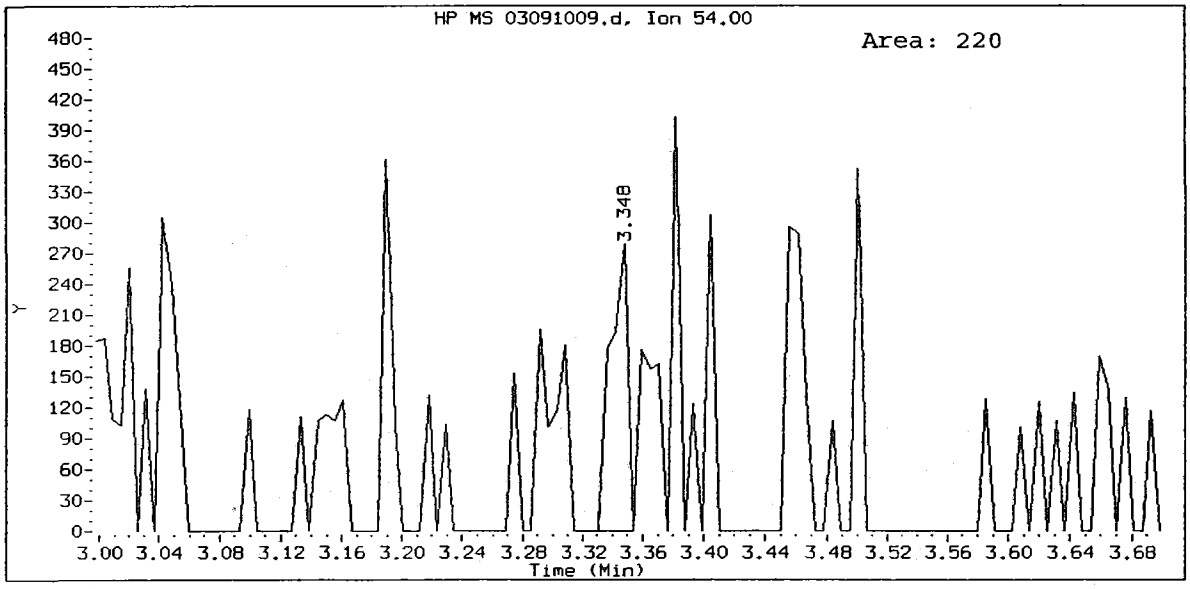
Acrylonitrile Amount: 1.04







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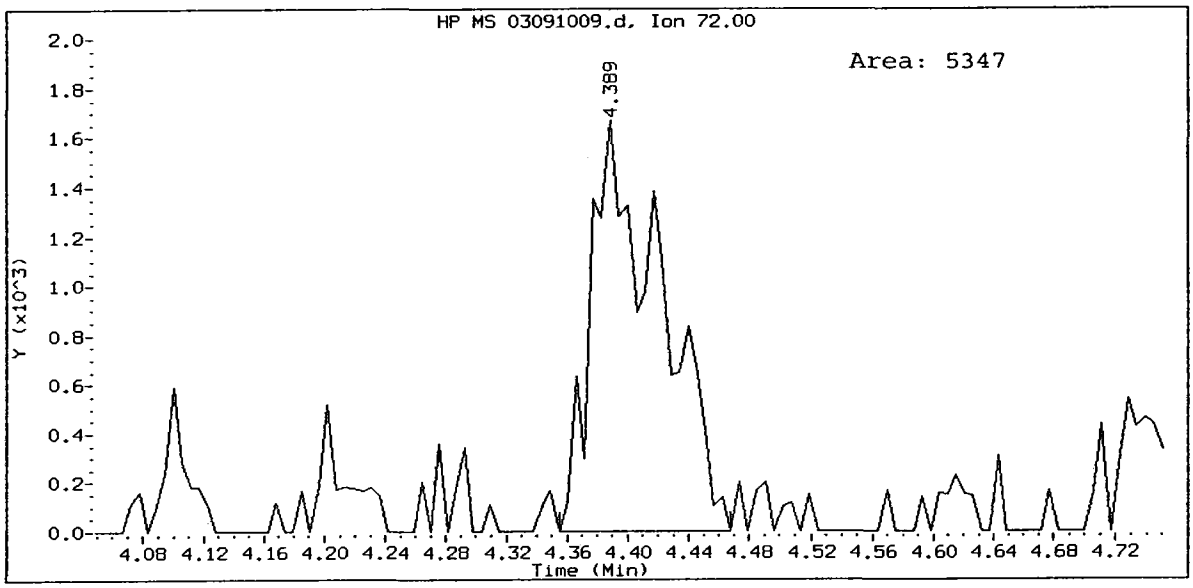
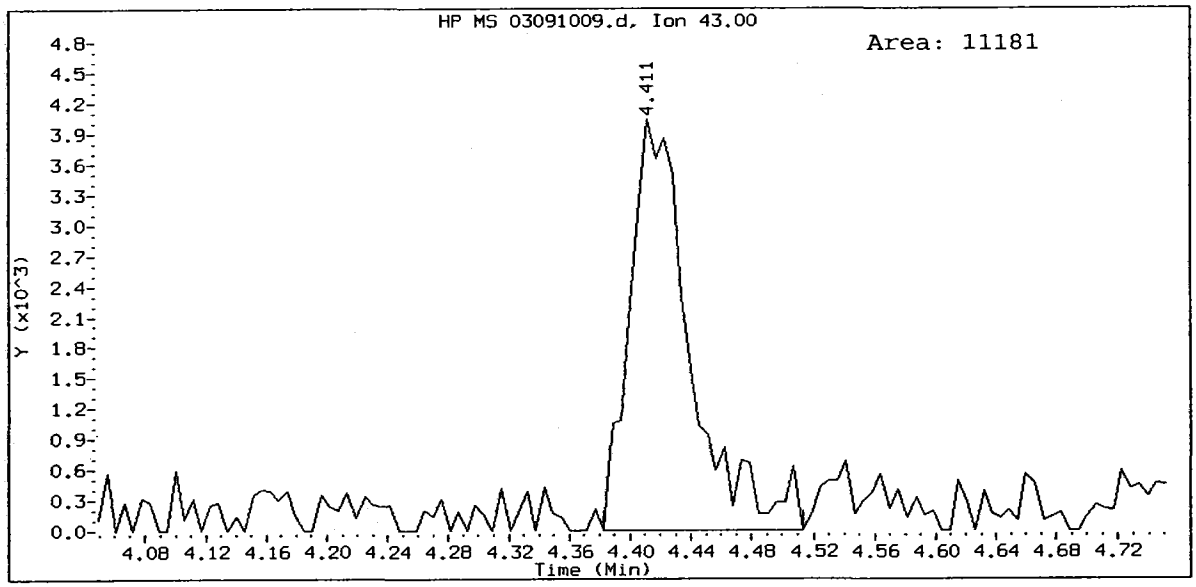
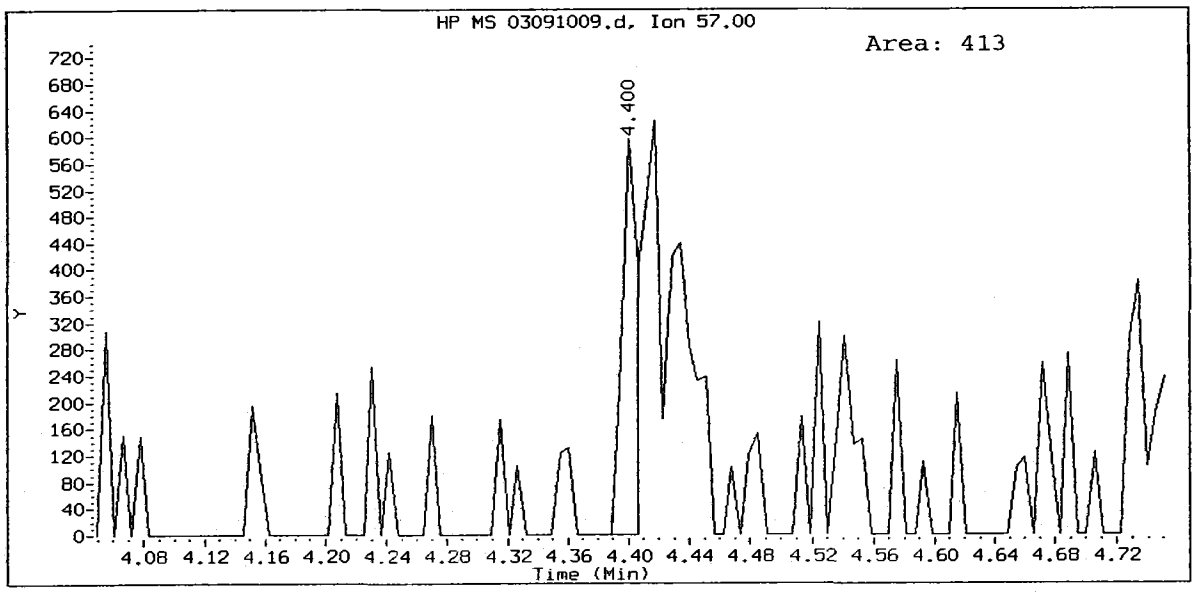
2-Butanone Amount: 1.17







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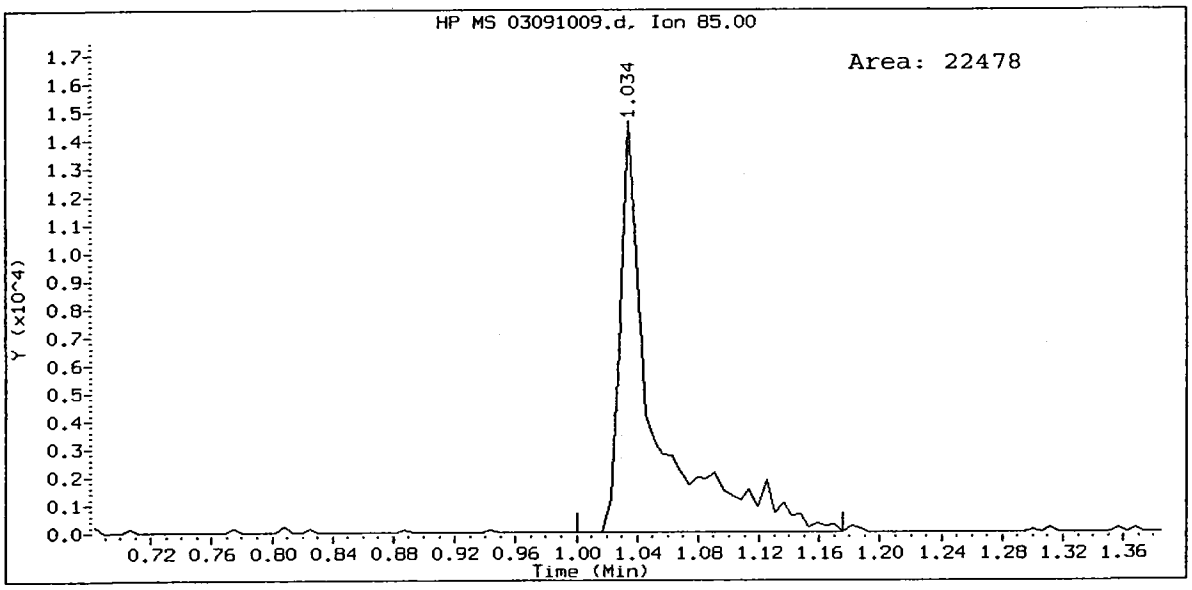
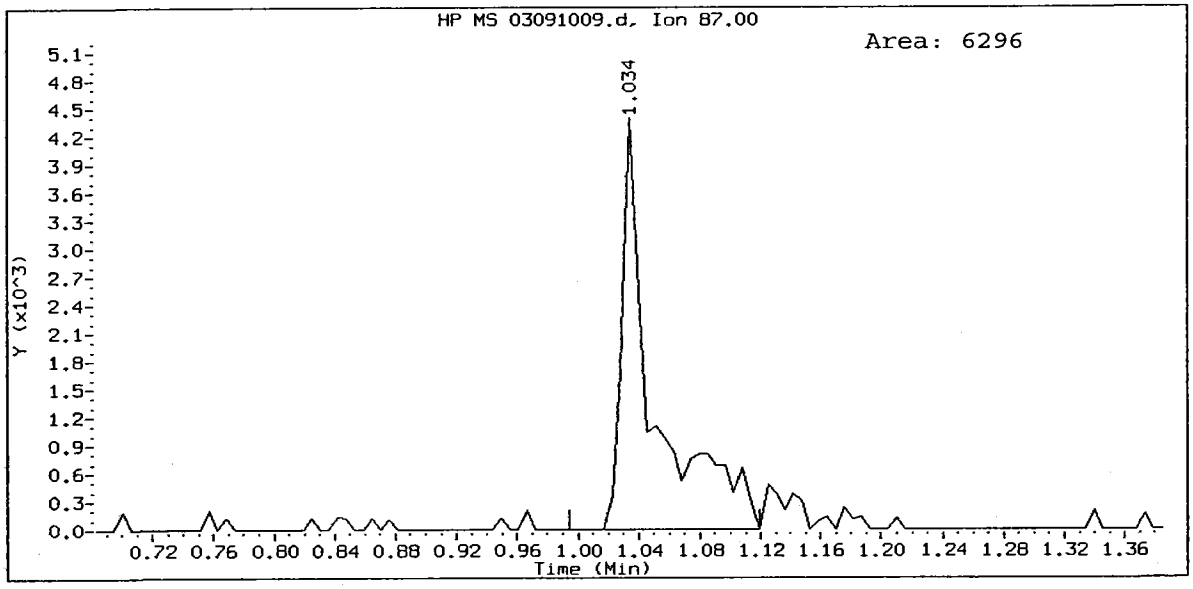
Dichlorodifluoromethane Amount: 1.06





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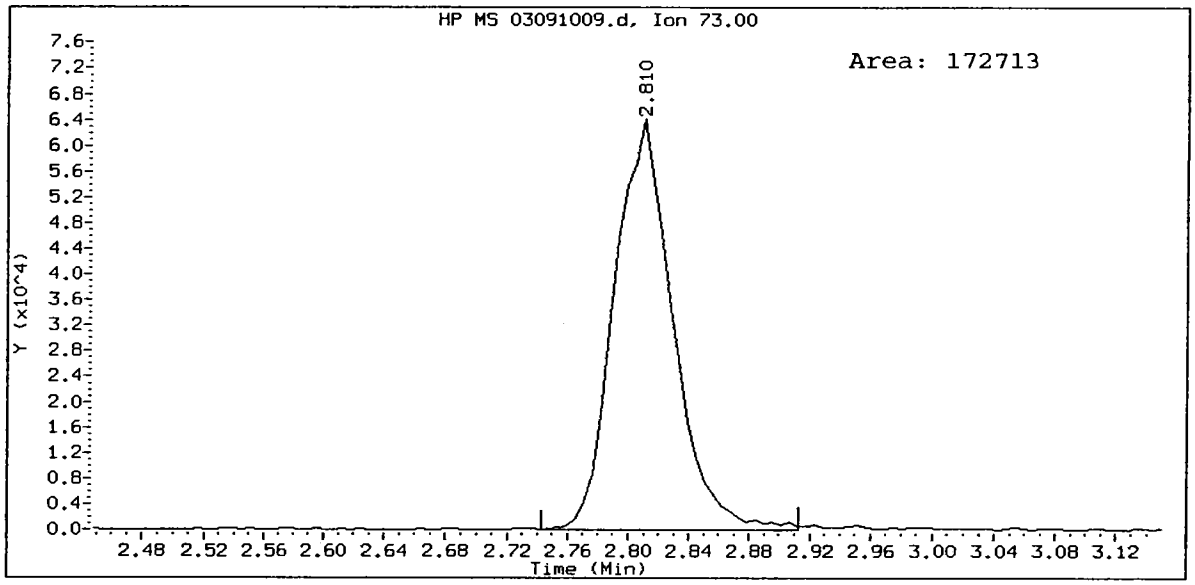
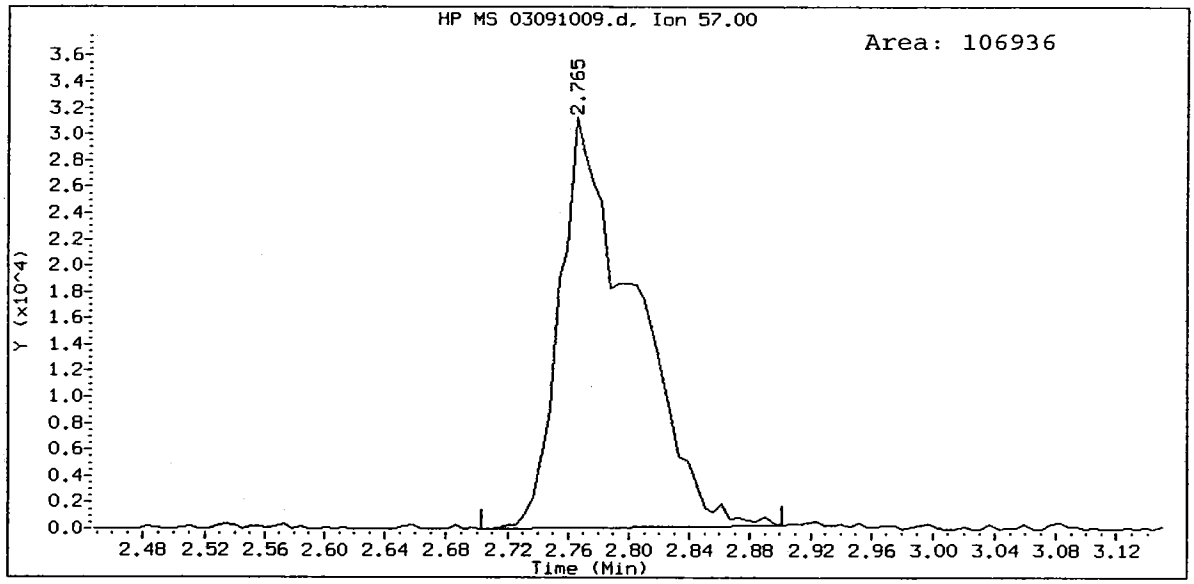
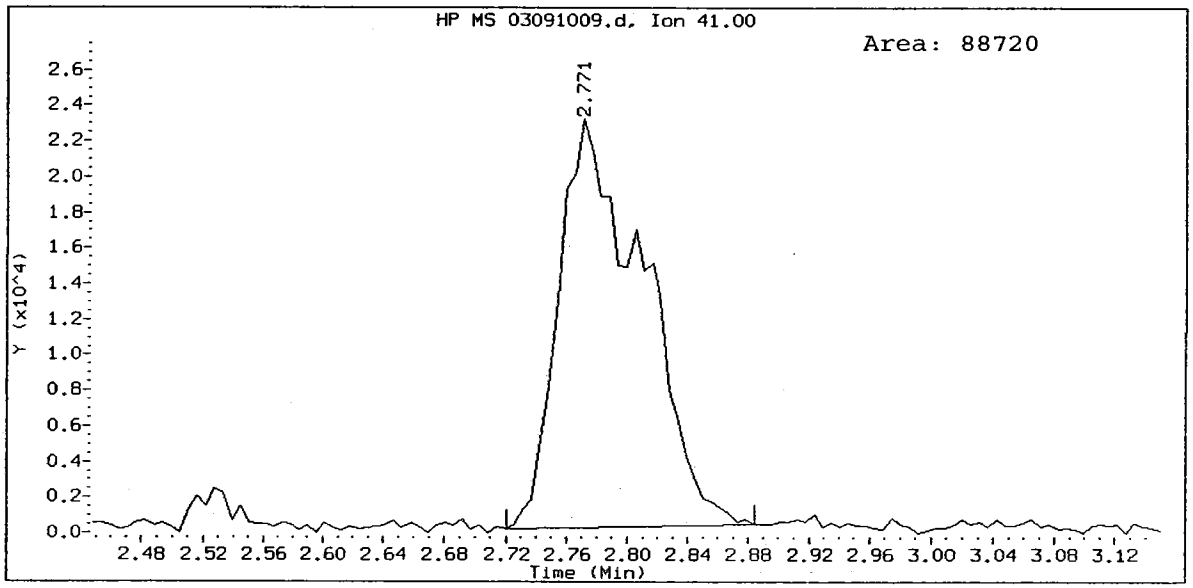
Methyl tert butyl ether Amount: 1.97







PC 3/16/10

Analytical Resources, Inc.

SW8260C 10 ML

Data file : /chem1/nt5.i/09MAR10.b/03091011.d
Lab Smp Id: 10 0309 Client Smp ID: 10 ppb
Inj Date : 09-MAR-2010 14:12
Operator : PC Inst ID: nt5.i
Smp Info : 10 0309,10,10,0,
Misc Info : 10-
Comment :
Method : /chem1/nt5.i/09MAR10.b/8260c030910L.m
Meth Date : 10-Mar-2010 09:57 paul Quant Type: ISTD
Cal Date : 09-MAR-2010 14:12 Cal File: 03091011.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	10.00000	Purge Volume (mL)
Sa	10.00000	Sample Amount (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Dichlorodifluoromethane	85	1.034	1.034	(0.218)	213350	10.0000	9.980(M)
2 Chloromethane	50	1.164	1.164	(0.246)	423178	10.0000	9.922
3 Vinyl Chloride	62	1.221	1.221	(0.258)	450925	10.0000	9.604
4 Bromomethane	94	1.447	1.447	(0.305)	235262	10.0000	9.610
5 Chloroethane	64	1.537	1.537	(0.324)	305045	10.0000	10.132(M)
6 Trichlorofluoromethane	101	1.645	1.645	(0.347)	450641	10.0000	9.786
12 Acrolein	56	2.318	2.318	(0.489)	15793	10.0000	10.00
9 112Trichloro122Trifluoroethane	101	2.086	2.086	(0.440)	353465	10.0000	9.710
14 Acetone	43	2.584	2.584	(0.545)	55567	10.0000	10.195
7 1,1-Dichloroethene	96	2.041	2.041	(0.431)	341819	10.0000	9.921
11 Bromoethane	108	2.250	2.250	(0.475)	258015	10.0000	10.185
10 Iodomethane	142	2.143	2.143	(0.452)	424753	10.0000	9.791
13 Methylene Chloride	84	2.527	2.527	(0.533)	379499	10.0000	10.044
18 Acrylonitrile	53	3.348	3.348	(0.706)	71704	10.0000	9.425
16 Methyl tert butyl ether	73	2.799	2.799	(0.591)	1732285	20.0000	19.593
8 Carbon Disulfide	76	2.047	2.047	(0.432)	1335641	10.0000	10.052

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
	15 Trans-1,2-Dichloroethene	96	2.675	2.675	(0.564)	377669	10.0000	9.834
	19 Vinyl Acetate	43	3.591	3.591	(0.758)	485524	10.0000	9.849
	17 1,1-Dichloroethane	63	3.285	3.285	(0.693)	763013	10.0000	9.942
	29 2-Butanone	72	4.400	4.400	(0.928)	44607	10.0000	9.687(M)
	21 2,2-Dichloropropane	77	3.919	3.919	(0.827)	589582	10.0000	9.723
	20 Cis-1,2-Dichloroethene	96	3.823	3.823	(0.807)	402856	10.0000	10.034
*	32 Pentafluorobenzene	168	4.739	4.739	(1.000)	538440	10.0000	
	23 Chloroform	83	4.100	4.100	(0.865)	659426	10.0000	9.968
	22 Bromochloromethane	128	4.004	4.004	(0.845)	295960	20.0000	19.417
$	25 Dibromofluoromethane	111	4.264	4.264	(0.900)	253052	10.0000	10.063
	26 1,1,1-Trichloroethane	97	4.264	4.264	(0.900)	564575	10.0000	9.929
	28 1,1-Dichloropropene	75	4.383	4.383	(0.845)	566100	10.0000	9.832
	24 Carbon Tetrachloride	117	4.202	4.202	(0.810)	459645	10.0000	10.041
$	31 d4-1,2-Dichloroethane	65	4.728	4.728	(0.998)	280396	10.0000	9.800
	33 1,2-Dichloroethane	62	4.790	4.790	(0.924)	416034	10.0000	9.708
	30 Benzene	78	4.604	4.604	(0.888)	1736022	10.0000	10.205
*	35 1,4-Difluorobenzene	114	5.186	5.186	(1.000)	1009985	10.0000	
	34 Trichloroethene	130	5.135	5.135	(0.990)	368202	10.0000	9.910
	38 1,2-Dichloropropane	63	5.577	5.577	(1.075)	438197	10.0000	9.914
	39 Bromodichloromethane	83	5.650	5.650	(1.089)	462143	10.0000	9.963
	37 Dibromomethane	93	5.486	5.486	(1.058)	159895	10.0000	9.877
	40 2-Chloroethyl Vinyl Ether	63	6.170	6.170	(1.190)	176981	10.0000	9.822
	45 4-Methyl-2-Pentanone	58	6.742	6.742	(1.300)	83826	10.0000	9.293
	41 Cis 1,3-dichloropropene	75	6.193	6.193	(1.194)	637894	10.0000	10.093
$	42 d8-Toluene	98	6.346	6.346	(1.224)	1168606	10.0000	9.951
	43 Toluene	92	6.391	6.391	(1.232)	1047224	10.0000	10.050
	46 Trans 1,3-Dichloropropene	75	6.753	6.753	(1.302)	502637	10.0000	10.001
	51 2-Hexanone	43	7.455	7.455	(0.975)	140802	10.0000	9.688
	47 1,1,2-Trichloroethane	97	6.883	6.883	(1.327)	245469	10.0000	9.985
	49 1,3-Dichloropropane	76	7.104	7.104	(0.929)	476474	10.0000	10.062
	44 Tetrachloroethene	166	6.708	6.708	(0.877)	327499	10.0000	10.064
	48 Chlorodibromomethane	129	7.019	7.019	(0.918)	255341	10.0000	9.998
	50 1,2-Dibromoethane	107	7.200	7.200	(1.388)	216923	10.0000	9.827
*	52 d5-Chlorobenzene	117	7.647	7.647	(1.000)	862632	10.0000	
	53 Chlorobenzene	112	7.664	7.664	(1.002)	1002184	10.0000	10.071
	54 Ethyl Benzene	91	7.709	7.709	(1.008)	1952935	10.0000	10.487
	55 1,1,1,2-Tetrachloroethane	131	7.726	7.726	(1.010)	320097	10.0000	10.019
	56 m,p-xylene	106	7.839	7.839	(1.025)	1447112	20.0000	21.030
	57 o-Xylene	106	8.201	8.201	(1.072)	700757	10.0000	10.272
	58 Styrene	104	8.252	8.252	(1.079)	1140658	10.0000	10.476
	60 Isopropyl Benzene	105	8.484	8.484	(0.874)	1819971	10.0000	10.400
	59 Bromoform	173	8.247	8.247	(0.849)	120100	10.0000	9.998
	64 1,1,2,2-Tetrachloroethane	83	8.920	8.920	(0.918)	262595	10.0000	9.650
$	61 4-Bromofluorobenzene	95	8.710	8.710	(1.139)	420383	10.0000	10.239
	66 1,2,3-Trichloropropane	110	9.016	9.016	(0.928)	63847	10.0000	9.553
	68 Trans-1,4-Dichloro 2-Butene	53	9.072	9.072	(0.934)	78668	10.0000	9.438
	63 N-Propyl Benzene	91	8.852	8.852	(0.911)	2205674	10.0000	10.520

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
	62 Bromobenzene	156	8.790	8.790	(0.905)	339506	10.0000	9.809
	67 1,3,5-Trimethyl Benzene	105	9.039	9.039	(0.931)	1470645	10.0000	10.372
	65 2-Chloro Toluene	91	8.965	8.965	(0.923)	1307513	10.0000	10.388
	69 4-Chloro Toluene	91	9.118	9.118	(0.939)	1306274	10.0000	10.126
	70 T-Butyl Benzene	119	9.310	9.310	(0.959)	1217848	10.0000	10.229
	71 1,2,4-Trimethylbenzene	105	9.378	9.378	(0.966)	1455938	10.0000	10.243
	72 S-Butyl Benzene	105	9.468	9.468	(0.975)	1889320	10.0000	10.341
	73 4-Isopropyl Toluene	119	9.610	9.610	(0.990)	1458045	10.0000	10.286
	74 1,3-Dichlorobenzene	146	9.638	9.638	(0.992)	687942	10.0000	9.769
*	75 d4-1,4-Dichlorobenzene	152	9.712	9.712	(1.000)	410015	10.0000	
	76 1,4-Dichlorobenzene	146	9.723	9.723	(1.001)	691490	10.0000	9.574
	77 N-Butyl Benzene	91	9.995	9.995	(1.029)	1435400	10.0000	10.168
$	78 d4-1,2-Dichlorobenzene	152	10.091	10.091	(1.039)	356225	10.0000	9.868
	79 1,2-Dichlorobenzene	146	10.102	10.102	(1.040)	610991	10.0000	9.567
	81 1,2-Dibromo 3-Chloropropane	75	10.843	10.843	(1.116)	41712	10.0000	9.121
	83 1,2,4-Trichlorobenzene	180	11.494	11.494	(1.183)	357447	10.0000	9.308
	82 Hexachloro 1,3-Butadiene	225	11.488	11.488	(1.183)	138848	10.0000	9.401
	84 Naphthalene	128	11.799	11.799	(1.215)	746242	10.0000	9.428
	85 1,2,3-Trichlorobenzene	180	11.974	11.974	(1.233)	288648	10.0000	9.456

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt5.i
Lab File ID: 03091011.d
Lab Smp Id: 10 0309
Analysis Type: VOA
Quant Type: ISTD
Operator: PC
Method File: /chem1/nt5.i/09MAR10.b/8260c030910L.m
Misc Info: 10-

Calibration Date: 09-MAR-2010
Calibration Time: 14:12
Client Smp ID: 10 ppb
Level: LOW
Sample Type: WATER

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
32 Pentafluorobenzen	526014	263007	1052028	538440	2.36
35 1,4-Difluorobenze	985179	492590	1970358	1009985	2.52
52 d5-Chlorobenzene	845025	422512	1690050	862632	2.08
75 d4-1,4-Dichlorobe	383446	191723	766892	410015	6.93

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
32 Pentafluorobenzen	4.74	4.24	5.24	4.74	0.00
35 1,4-Difluorobenze	5.19	4.69	5.69	5.19	0.00
52 d5-Chlorobenzene	7.65	7.15	8.15	7.65	0.00
75 d4-1,4-Dichlorobe	9.71	9.21	10.21	9.71	0.00

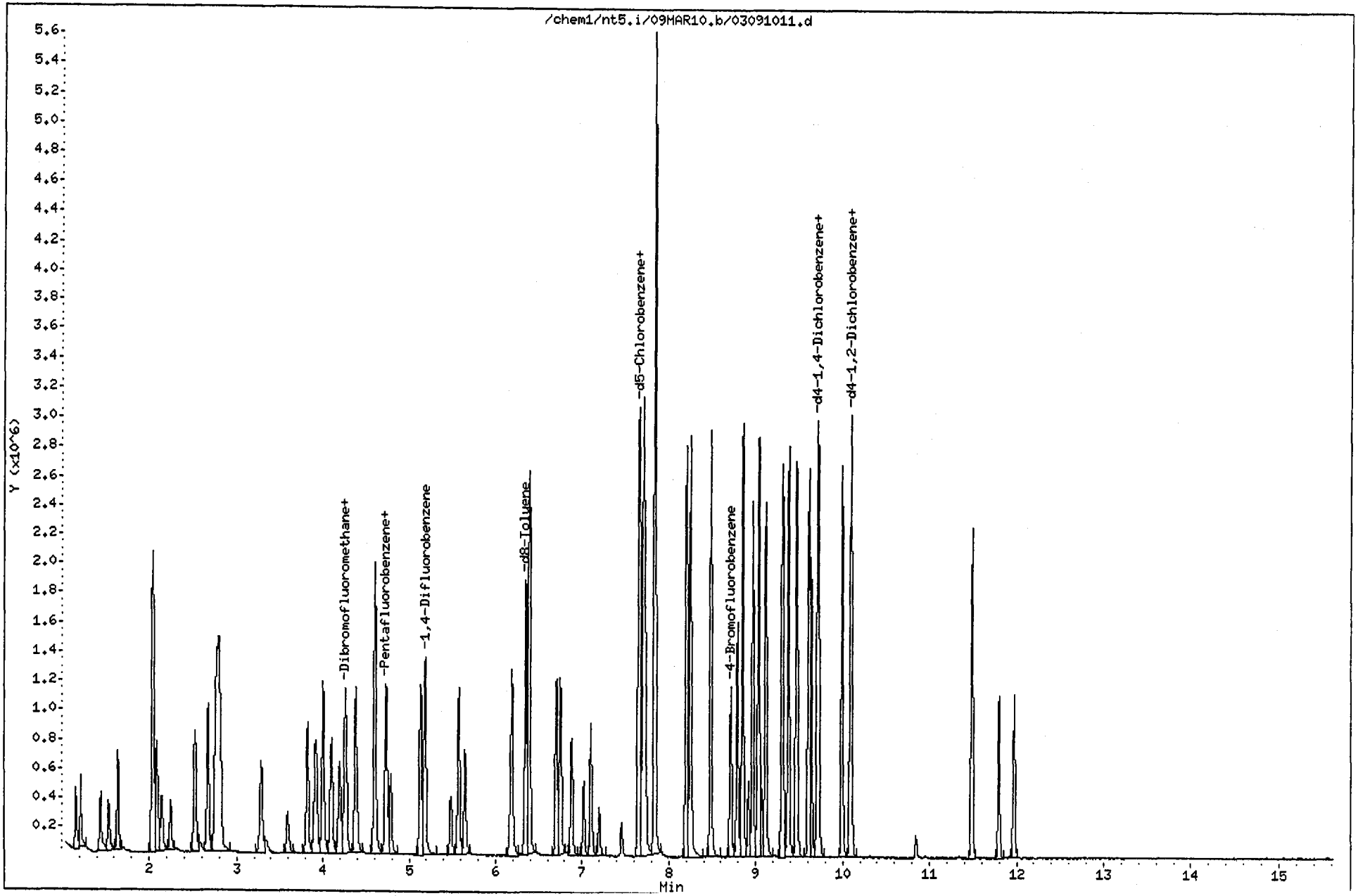
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem1/nt5.i/09MAR10.b/03091011.d
Date : 09-MAR-2010 14:12
Client ID: 10 ppb
Sample Info: 10 0309,10,10,0,

Column phase: RTXVMS

Instrument: nt5.i

Operator: PC
Column diameter: 0.18



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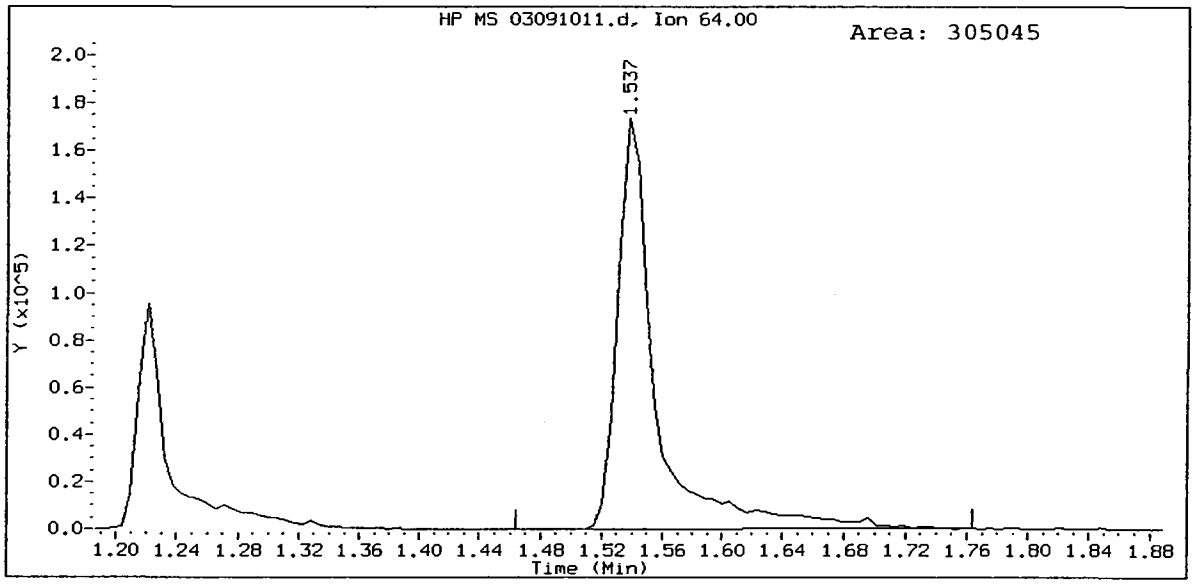
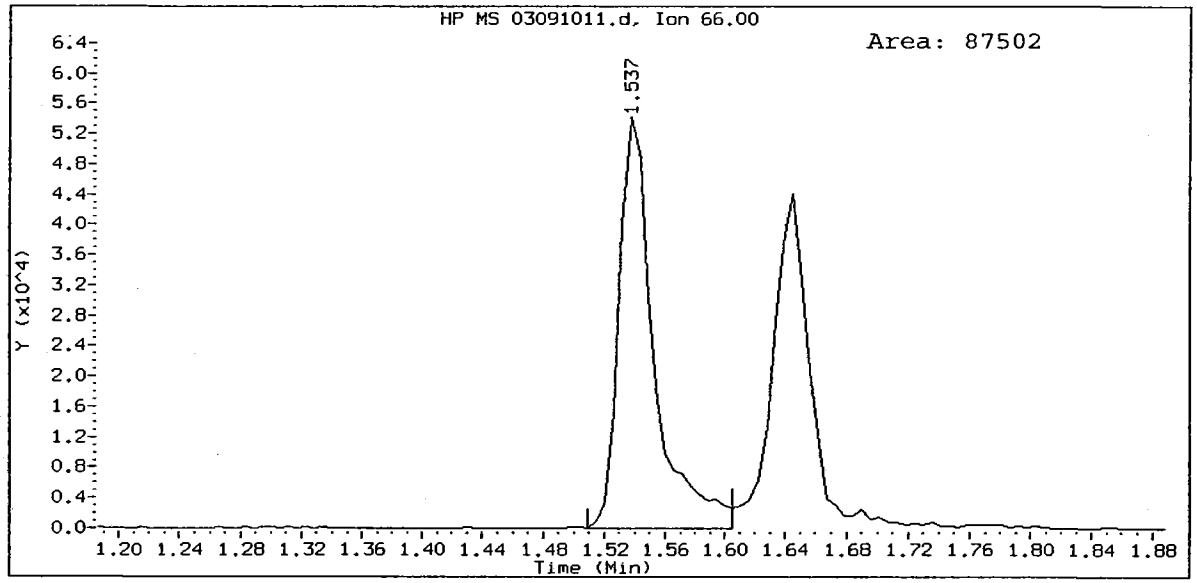
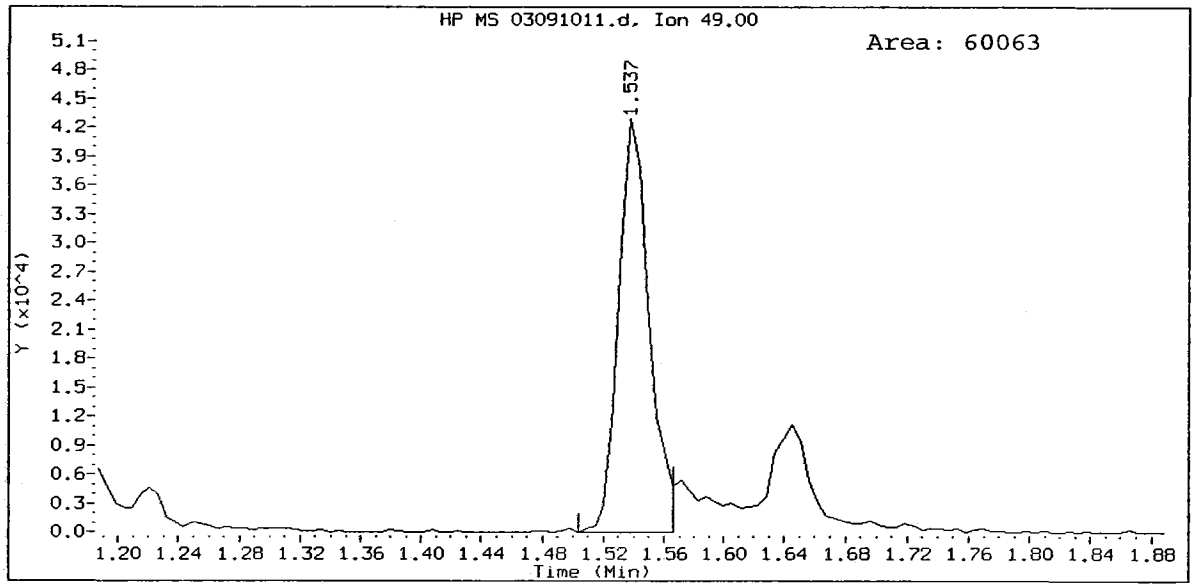
Chloroethane Amount: 10.13







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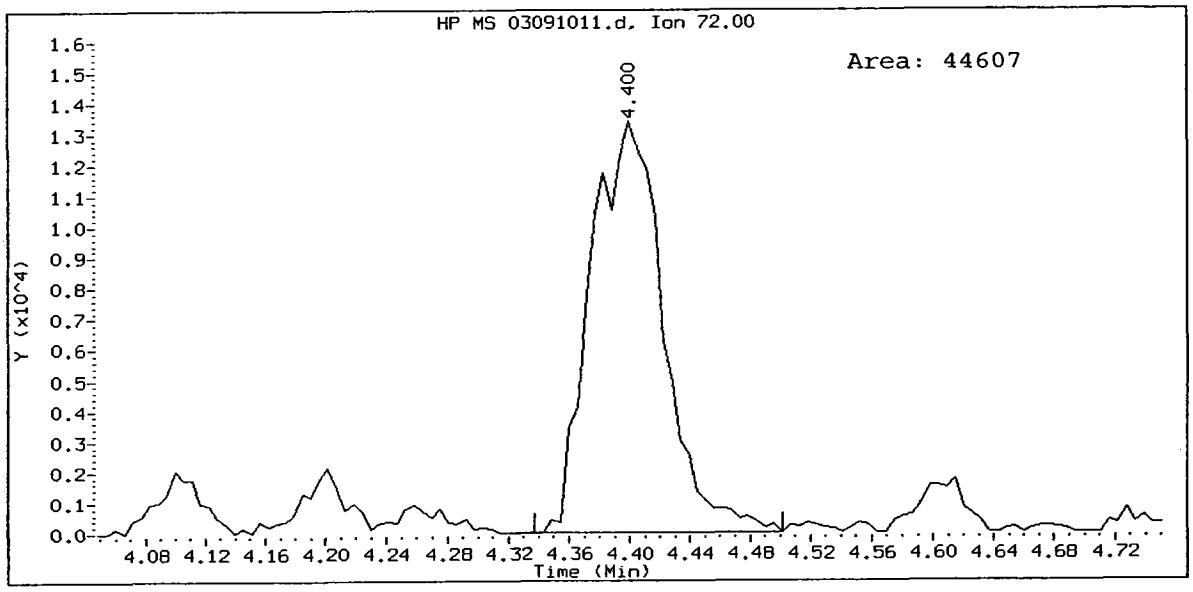
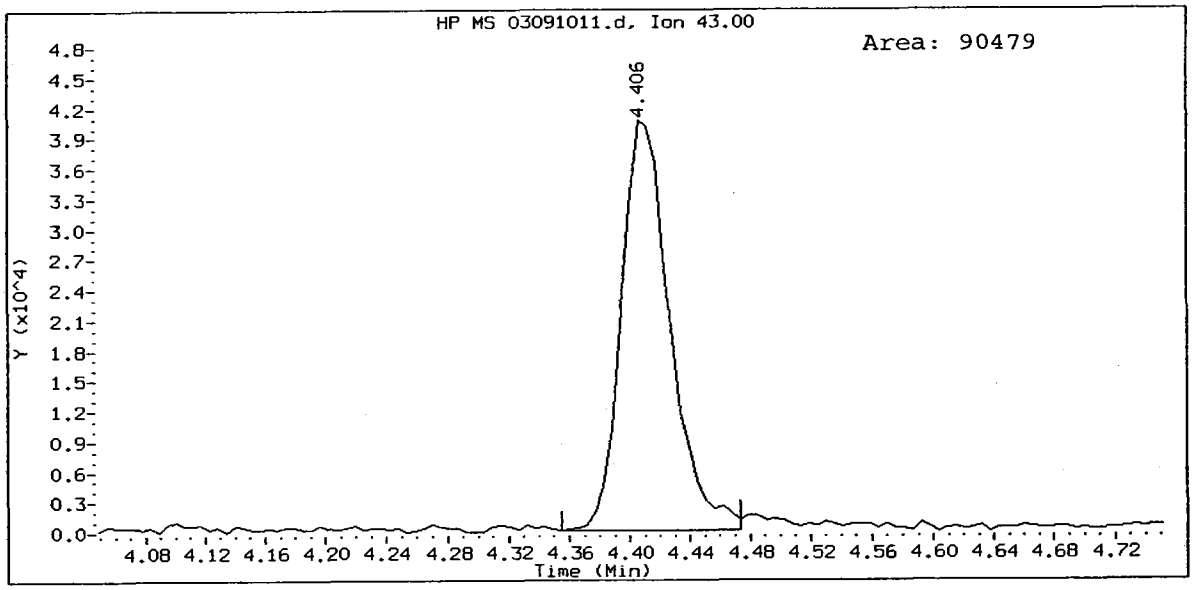
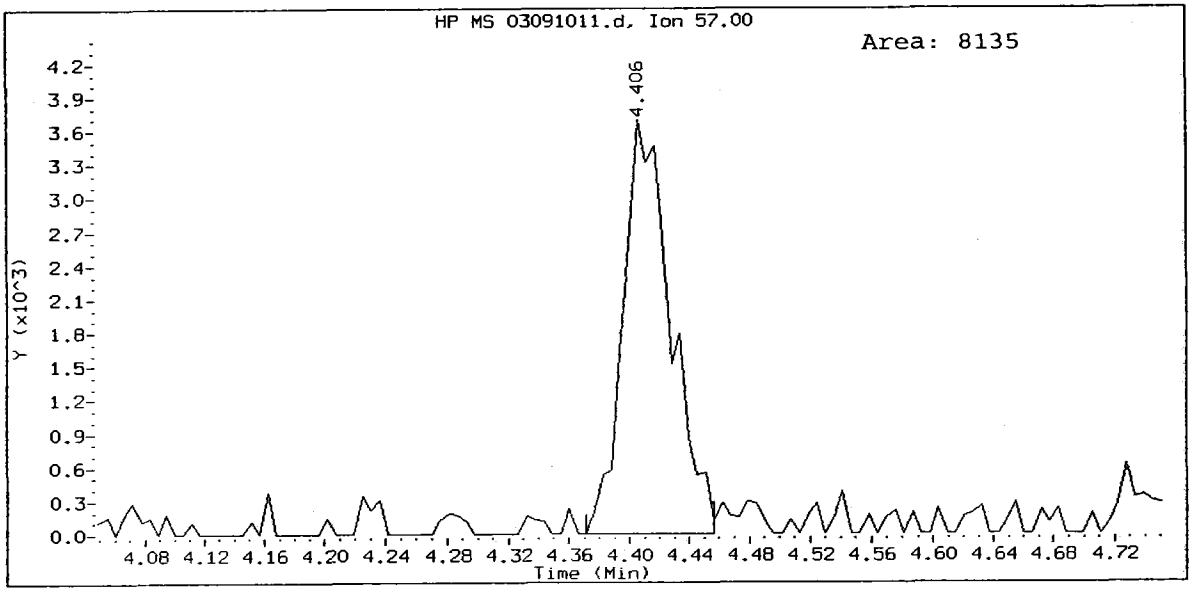
2-Butanone Amount: 9.69







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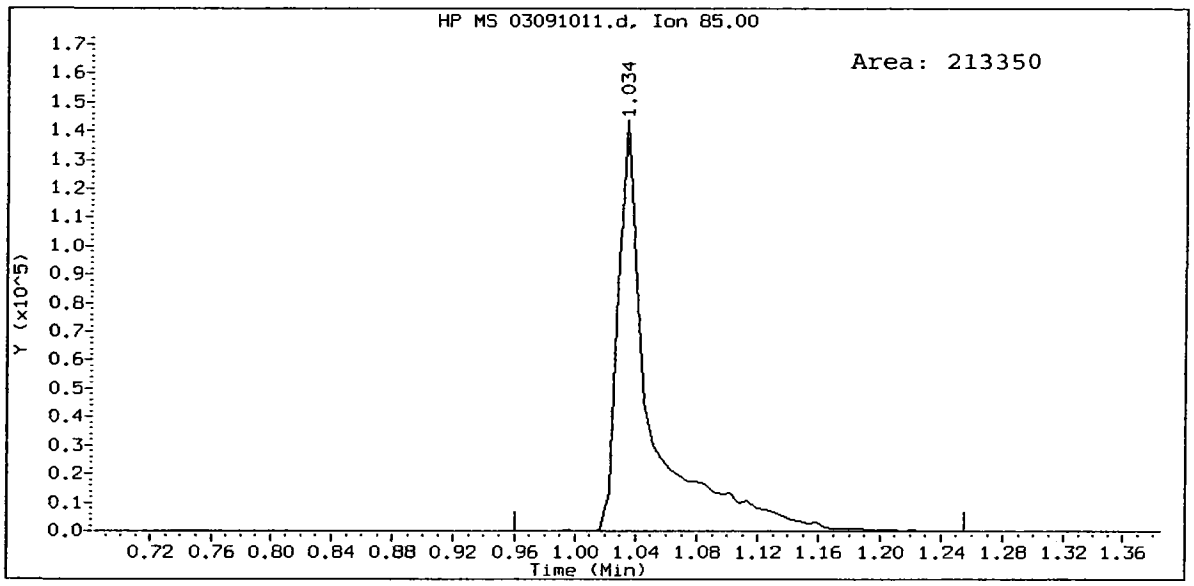
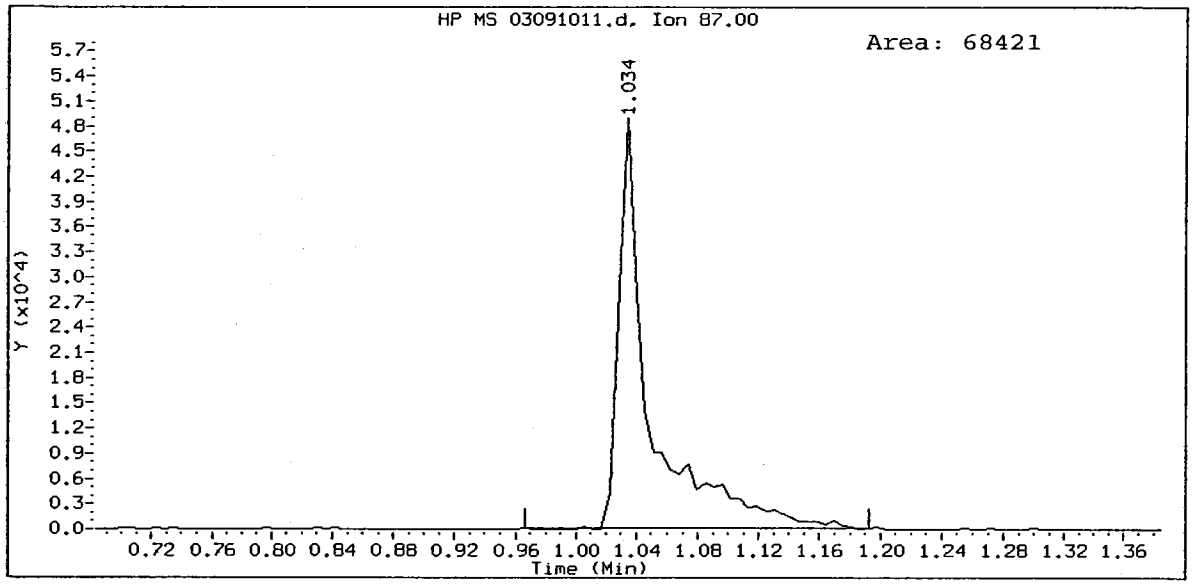
Dichlorodifluoromethane Amount: 9.98





Analytical Resources, Inc.

SW8260C 10 ML

Data file : /chem1/nt5.i/09MAR10.b/03091012.d
Lab Smp Id: 20 0309 Client Smp ID: 20 ppb
Inj Date : 09-MAR-2010 14:37
Operator : PC Inst ID: nt5.i
Smp Info : 20 0309,10,10,0,
Misc Info : 10-
Comment :
Method : /chem1/nt5.i/09MAR10.b/8260c030910L.m
Meth Date : 10-Mar-2010 09:57 paul Quant Type: ISTD
Cal Date : 09-MAR-2010 14:37 Cal File: 03091012.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	10.00000	Purge Volume (mL)
Sa	10.00000	Sample Amount (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Dichlorodifluoromethane	85	1.034	1.034	(0.218)	414524	20.0000	18.969(M)
2 Chloromethane	50	1.164	1.164	(0.246)	837332	20.0000	19.205
3 Vinyl Chloride	62	1.221	1.221	(0.258)	895878	20.0000	18.666
4 Bromomethane	94	1.447	1.447	(0.305)	497748	20.0000	19.891
5 Chloroethane	64	1.538	1.537	(0.324)	589120	20.0000	19.142(M)
6 Trichlorofluoromethane	101	1.645	1.645	(0.347)	907336	20.0000	19.275
12 Acrolein	56	2.318	2.318	(0.489)	29201	20.0000	18.088
9 112Trichloro122Trifluoroethane	101	2.086	2.086	(0.440)	699663	20.0000	18.802
14 Acetone	43	2.584	2.584	(0.545)	103126	20.0000	18.509
7 1,1-Dichloroethene	96	2.041	2.041	(0.431)	679585	20.0000	19.296
11 Bromoethane	108	2.250	2.250	(0.475)	505005	20.0000	19.502
10 Iodomethane	142	2.143	2.143	(0.452)	823784	20.0000	18.577
13 Methylene Chloride	84	2.528	2.527	(0.533)	741894	20.0000	19.209
18 Acrylonitrile	53	3.348	3.348	(0.706)	152435	20.0000	19.601
16 Methyl tert butyl ether	73	2.799	2.799	(0.591)	3434878	40.0000	38.007
8 Carbon Disulfide	76	2.047	2.047	(0.432)	2633690	20.0000	19.391

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	15 Trans-1,2-Dichloroethene	96	2.675	2.675	(0.564)	746623	20.0000	19.018
	19 Vinyl Acetate	43	3.591	3.591	(0.758)	985956	20.0000	19.566
	17 1,1-Dichloroethane	63	3.286	3.285	(0.693)	1509552	20.0000	19.242
	29 2-Butanone	72	4.394	4.400	(0.927)	88762	20.0000	18.857
	21 2,2-Dichloropropane	77	3.919	3.919	(0.827)	1178933	20.0000	19.020
	20 Cis-1,2-Dichloroethene	96	3.823	3.823	(0.807)	798095	20.0000	19.446
*	32 Pentafluorobenzene	168	4.739	4.739	(1.000)	550396	10.0000	
	23 Chloroform	83	4.100	4.100	(0.865)	1293456	20.0000	19.128
	22 Bromochloromethane	128	4.004	4.004	(0.845)	599268	40.0000	38.462
$	25 Dibromofluoromethane	111	4.264	4.264	(0.900)	255454	10.0000	9.938
	26 1,1,1-Trichloroethane	97	4.264	4.264	(0.900)	1107488	20.0000	19.054
	28 1,1-Dichloropropene	75	4.383	4.383	(0.845)	1149827	20.0000	19.871
	24 Carbon Tetrachloride	117	4.196	4.202	(0.809)	898169	20.0000	19.524
$	31 d4-1,2-Dichloroethane	65	4.728	4.728	(0.998)	290971	10.0000	9.949
	33 1,2-Dichloroethane	62	4.790	4.790	(0.924)	843139	20.0000	19.577
	30 Benzene	78	4.604	4.604	(0.888)	3376476	20.0000	19.749
*	35 1,4-Difluorobenzene	114	5.186	5.186	(1.000)	1015029	10.0000	
	34 Trichloroethene	130	5.135	5.135	(0.990)	730775	20.0000	19.570
	38 1,2-Dichloropropane	63	5.577	5.577	(1.075)	875049	20.0000	19.699
	39 Bromodichloromethane	83	5.650	5.650	(1.089)	927196	20.0000	19.889
	37 Dibromomethane	93	5.486	5.486	(1.058)	315382	20.0000	19.385
	40 2-Chloroethyl Vinyl Ether	63	6.171	6.170	(1.190)	363071	20.0000	20.050
	45 4-Methyl-2-Pentanone	58	6.742	6.742	(1.300)	173287	20.0000	19.116
	41 Cis 1,3-dichloropropene	75	6.193	6.193	(1.194)	1275823	20.0000	20.086
$	42 d8-Toluene	98	6.346	6.346	(1.224)	1186463	10.0000	10.053
	43 Toluene	92	6.391	6.391	(1.232)	2071408	20.0000	19.780
	46 Trans 1,3-Dichloropropene	75	6.753	6.753	(1.302)	1014729	20.0000	20.089
	51 2-Hexanone	43	7.455	7.455	(0.975)	285172	20.0000	19.217
	47 1,1,2-Trichloroethane	97	6.883	6.883	(1.327)	486238	20.0000	19.681
	49 1,3-Dichloropropane	76	7.104	7.104	(0.929)	957915	20.0000	19.811
	44 Tetrachloroethene	166	6.708	6.708	(0.877)	651285	20.0000	19.602
	48 Chlorodibromomethane	129	7.019	7.019	(0.918)	525033	20.0000	20.135
	50 1,2-Dibromoethane	107	7.200	7.200	(1.388)	442361	20.0000	19.940
*	52 d5-Chlorobenzene	117	7.647	7.647	(1.000)	880785	10.0000	
	53 Chlorobenzene	112	7.664	7.664	(1.002)	1997671	20.0000	19.660
	54 Ethyl Benzene	91	7.709	7.709	(1.008)	3795367	20.0000	19.961
	55 1,1,1,2-Tetrachloroethane	131	7.726	7.726	(1.010)	641328	20.0000	19.661
	56 m,p-xylene	106	7.839	7.839	(1.025)	2849167	40.0000	40.553
	57 o-Xylene	106	8.201	8.201	(1.072)	1395587	20.0000	20.035
	58 Styrene	104	8.252	8.252	(1.079)	2319683	20.0000	20.865
	60 Isopropyl Benzene	105	8.484	8.484	(0.874)	3588142	20.0000	19.877
	59 Bromoform	173	8.247	8.247	(0.849)	240972	20.0000	19.446
	64 1,1,2,2-Tetrachloroethane	83	8.920	8.920	(0.918)	527054	20.0000	18.776
$	61 4-Bromofluorobenzene	95	8.716	8.710	(1.140)	420932	10.0000	10.042
	66 1,2,3-Trichloropropane	110	9.022	9.016	(0.929)	130395	20.0000	18.914
	68 Trans-1,4-Dichloro 2-Butene	53	9.073	9.072	(0.934)	152393	20.0000	17.724
	63 N-Propyl Benzene	91	8.852	8.852	(0.911)	4280264	20.0000	19.791

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
	62 Bromobenzene	156	8.790	8.790	(0.905)	682135	20.0000	19.106
	67 1,3,5-Trimethyl Benzene	105	9.039	9.039	(0.931)	2915448	20.0000	19.932
	65 2-Chloro Toluene	91	8.965	8.965	(0.923)	2565728	20.0000	19.762
	69 4-Chloro Toluene	91	9.118	9.118	(0.939)	2622767	20.0000	19.710
	70 T-Butyl Benzene	119	9.310	9.310	(0.959)	2425978	20.0000	19.753
	71 1,2,4-Trimethylbenzene	105	9.378	9.378	(0.966)	2920725	20.0000	19.920
	72 S-Butyl Benzene	105	9.474	9.468	(0.976)	3701530	20.0000	19.640
	73 4-Isopropyl Toluene	119	9.610	9.610	(0.990)	2915979	20.0000	19.941
	74 1,3-Dichlorobenzene	146	9.638	9.638	(0.992)	1383361	20.0000	19.044
*	75 d4-1,4-Dichlorobenzene	152	9.712	9.712	(1.000)	422955	10.0000	
	76 1,4-Dichlorobenzene	146	9.723	9.723	(1.001)	1387770	20.0000	18.626
	77 N-Butyl Benzene	91	9.995	9.995	(1.029)	2849109	20.0000	19.566
$	78 d4-1,2-Dichlorobenzene	152	10.091	10.091	(1.039)	366680	10.0000	9.847
	79 1,2-Dichlorobenzene	146	10.102	10.102	(1.040)	1237824	20.0000	18.788
	81 1,2-Dibromo 3-Chloropropane	75	10.849	10.843	(1.117)	87311	20.0000	18.507
	83 1,2,4-Trichlorobenzene	180	11.494	11.494	(1.183)	751151	20.0000	18.961
	82 Hexachloro 1,3-Butadiene	225	11.488	11.488	(1.183)	283045	20.0000	18.578
	84 Naphthalene	128	11.799	11.799	(1.215)	1589838	20.0000	19.472
	85 1,2,3-Trichlorobenzene	180	11.975	11.974	(1.233)	605524	20.0000	19.230

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt5.i
Lab File ID: 03091012.d
Lab Smp Id: 20 0309
Analysis Type: VOA
Quant Type: ISTD
Operator: PC
Method File: /chem1/nt5.i/09MAR10.b/8260c030910L.m
Misc Info: 10-

Calibration Date: 09-MAR-2010
Calibration Time: 14:12
Client Smp ID: 20 ppb
Level: LOW
Sample Type: WATER

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
32 Pentafluorobenzen	526014	263007	1052028	550396	4.64
35 1,4-Difluorobenze	985179	492590	1970358	1015029	3.03
52 d5-Chlorobenzene	845025	422512	1690050	880785	4.23
75 d4-1,4-Dichlorobe	383446	191723	766892	422955	10.30

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
32 Pentafluorobenzen	4.74	4.24	5.24	4.74	0.00
35 1,4-Difluorobenze	5.19	4.69	5.69	5.19	0.00
52 d5-Chlorobenzene	7.65	7.15	8.15	7.65	0.00
75 d4-1,4-Dichlorobe	9.71	9.21	10.21	9.71	0.00

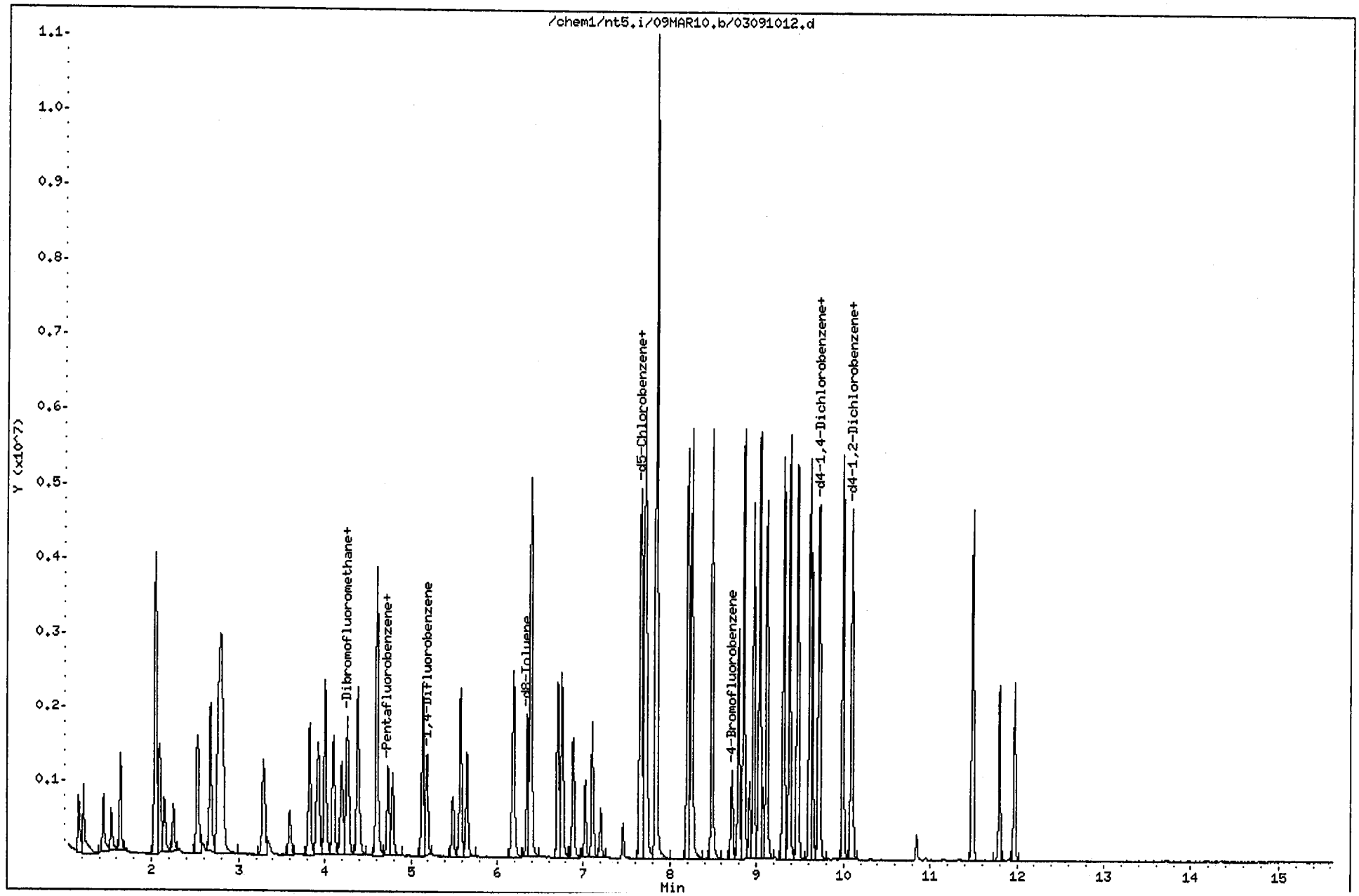
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem1/nt5.i/09MAR10.b/03091012.d
Date : 09-MAR-2010 14:37
Client ID: 20 ppb
Sample Info: 20 0309,10,10,0,

Column phase: RTXVMS

Instrument: nt5.i

Operator: PC
Column diameter: 0.18



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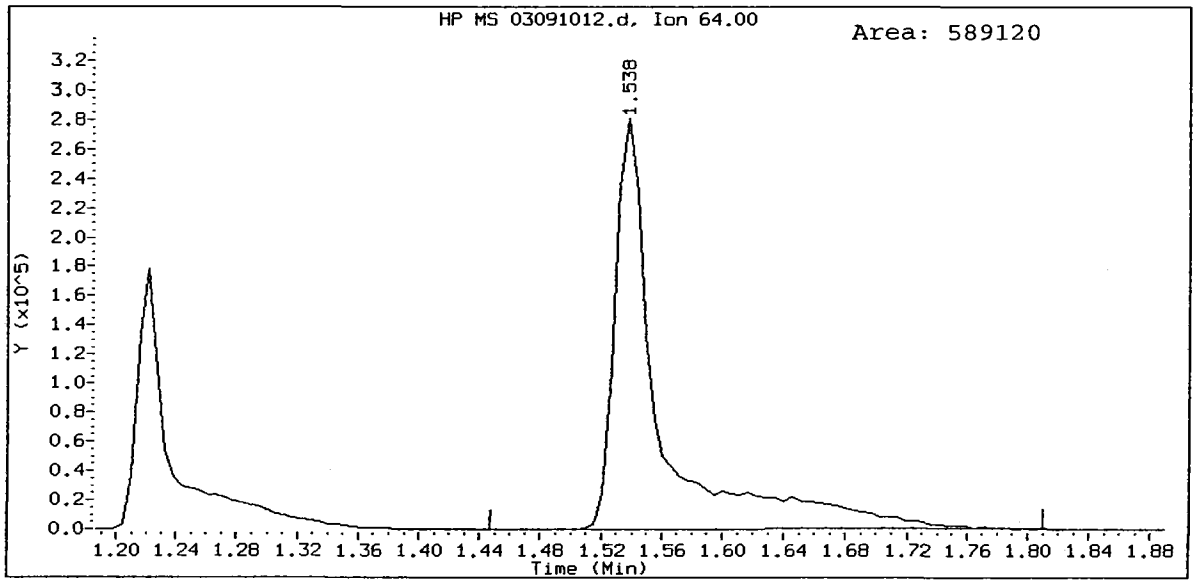
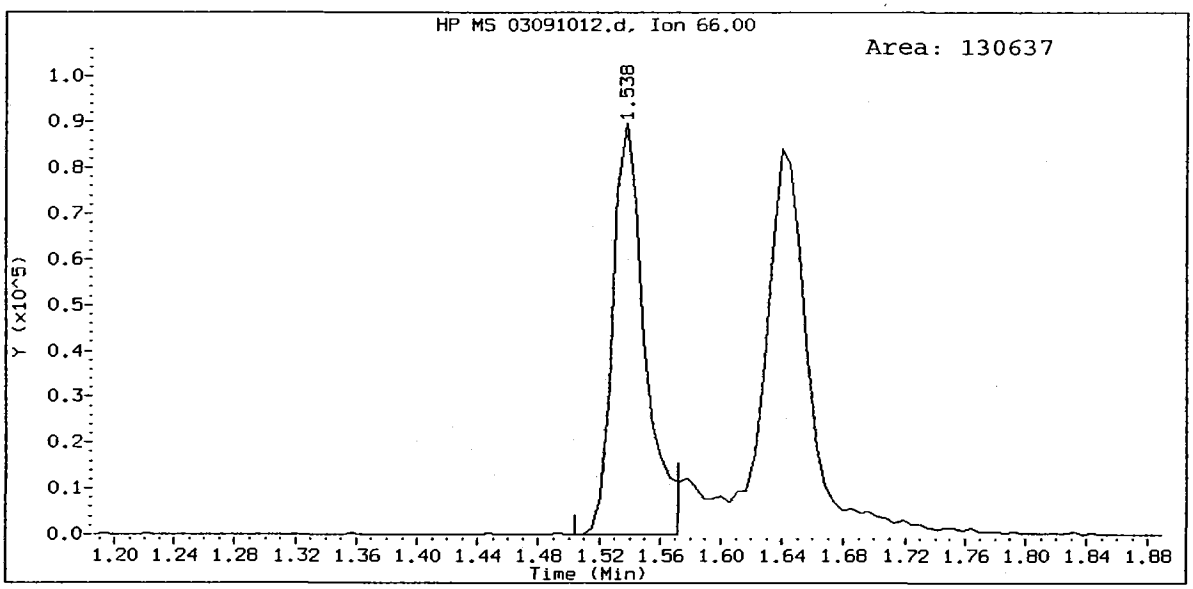
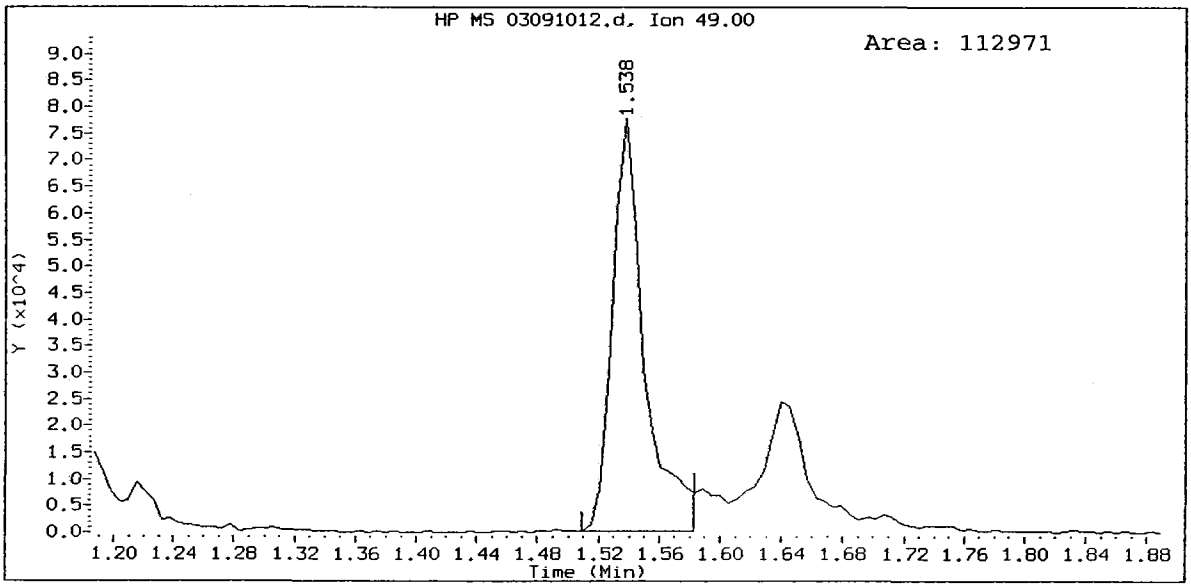
Chloroethane Amount: 19.14







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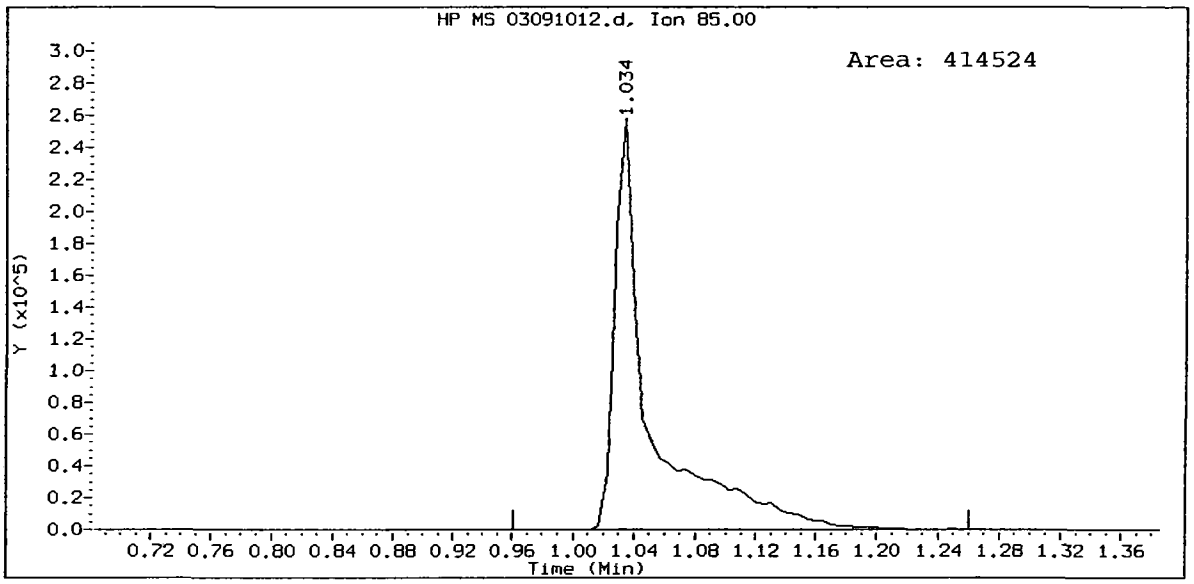
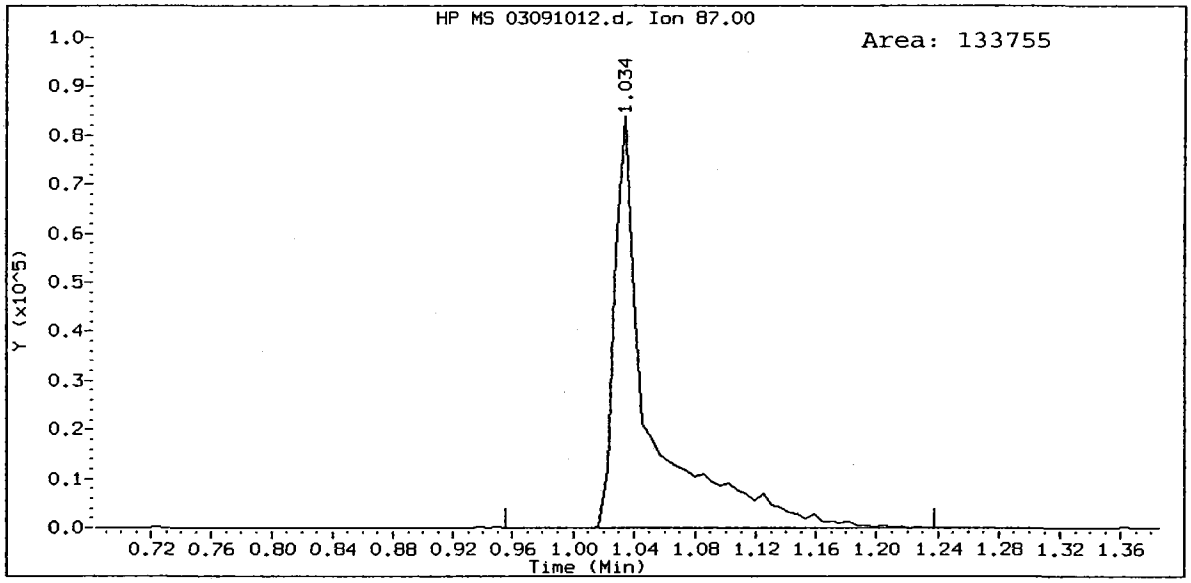
Dichlorodifluoromethane Amount: 18.97





Analytical Resources, Inc.

SW8260C 10 ML

Data file : /chem1/nt5.i/09MAR10.b/03091013.d
Lab Smp Id: 40 0309 Client Smp ID: 40 ppb
Inj Date : 09-MAR-2010 15:03
Operator : PC Inst ID: nt5.i
Smp Info : 40 0309,10,10,0,
Misc Info : 10-
Comment :
Method : /chem1/nt5.i/09MAR10.b/8260c030910L.m
Meth Date : 10-Mar-2010 09:57 paul Quant Type: ISTD
Cal Date : 09-MAR-2010 15:03 Cal File: 03091013.d
Als bottle: 1 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	10.00000	Purge Volume (mL)
Sa	10.00000	Sample Amount (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Dichlorodifluoromethane	85	1.034	1.034	(0.218)	951394	40.0000	44.047
2 Chloromethane	50	1.164	1.164	(0.246)	1809930	40.0000	42.000
3 Vinyl Chloride	62	1.221	1.221	(0.258)	1938549	40.0000	40.864
4 Bromomethane	94	1.447	1.447	(0.305)	1118650	40.0000	45.228
5 Chloroethane	64	1.538	1.537	(0.324)	1255646	40.0000	41.278
6 Trichlorofluoromethane	101	1.645	1.645	(0.347)	1932560	40.0000	41.536
12 Acrolein	56	2.324	2.318	(0.490)	65388	40.0000	40.977
9 112Trichloro122Trifluoroethane	101	2.092	2.086	(0.441)	1484758	40.0000	40.368
14 Acetone	43	2.590	2.584	(0.546)	206415	40.0000	37.482
7 1,1-Dichloroethene	96	2.041	2.041	(0.431)	1435575	40.0000	41.240
11 Bromoethane	108	2.250	2.250	(0.475)	1066330	40.0000	41.663
10 Iodomethane	142	2.149	2.143	(0.453)	1715492	40.0000	39.140
13 Methylene Chloride	84	2.528	2.527	(0.533)	1562470	40.0000	40.931
18 Acrylonitrile	53	3.353	3.348	(0.708)	321045	40.0000	41.767
16 Methyl tert butyl ether	73	2.799	2.799	(0.591)	7006297	60.0000	78.434
8 Carbon Disulfide	76	2.047	2.047	(0.432)	5354645	40.0000	39.888

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	15 Trans-1,2-Dichloroethene	96	2.675	2.675	(0.564)	1588231	40.0000	40.931
	19 Vinyl Acetate	43	3.597	3.591	(0.759)	2081252	40.0000	41.786
	17 1,1-Dichloroethane	63	3.291	3.285	(0.694)	3123070	40.0000	40.276
	29 2-Butanone	72	4.400	4.400	(0.928)	182623	40.0000	39.253
	21 2,2-Dichloropropane	77	3.919	3.919	(0.827)	2405138	40.0000	39.258
	20 Cis-1,2-Dichloroethene	96	3.823	3.823	(0.807)	1653492	40.0000	40.762
*	32 Pentafluorobenzene	168	4.739	4.739	(1.000)	544013	10.0000	
	23 Chloroform	83	4.100	4.100	(0.865)	2700581	40.0000	40.406
	22 Bromochloromethane	128	4.004	4.004	(0.845)	1237890	80.0000	80.382
$	25 Dibromofluoromethane	111	4.264	4.264	(0.900)	254334	10.0000	10.011
	26 1,1,1-Trichloroethane	97	4.264	4.264	(0.900)	2320813	40.0000	40.397
	28 1,1-Dichloropropene	75	4.383	4.383	(0.845)	2376324	40.0000	40.587
	24 Carbon Tetrachloride	117	4.202	4.202	(0.810)	1867993	40.0000	40.131
$	31 d4-1,2-Dichloroethane	65	4.728	4.728	(0.998)	289212	10.0000	10.005
	33 1,2-Dichloroethane	62	4.790	4.790	(0.924)	1737117	40.0000	39.865
	30 Benzene	78	4.604	4.604	(0.888)	6740108	40.0000	38.963
*	35 1,4-Difluorobenzene	114	5.186	5.186	(1.000)	1027012	10.0000	
	34 Trichloroethene	130	5.135	5.135	(0.990)	1525370	40.0000	40.372
	38 1,2-Dichloropropane	63	5.577	5.577	(1.075)	1808635	40.0000	40.240
	39 Bromodichloromethane	83	5.650	5.650	(1.089)	1920296	40.0000	40.711
	37 Dibromomethane	93	5.486	5.486	(1.058)	661264	40.0000	40.169
	40 2-Chloroethyl Vinyl Ether	63	6.176	6.170	(1.191)	750697	40.0000	40.972
	45 4-Methyl-2-Pentanone	58	6.742	6.742	(1.300)	363357	40.0000	39.615
	41 Cis 1,3-dichloropropene	75	6.193	6.193	(1.194)	2600375	40.0000	40.461
$	42 d8-Toluene	98	6.352	6.346	(1.225)	1180922	10.0000	9.889
	43 Toluene	92	6.391	6.391	(1.232)	4201371	40.0000	39.652
	46 Trans 1,3-Dichloropropene	75	6.753	6.753	(1.302)	2109028	40.0000	41.267
	51 2-Hexanone	43	7.455	7.455	(0.974)	598788	40.0000	40.129
	47 1,1,2-Trichloroethane	97	6.883	6.883	(1.327)	997323	40.0000	39.896
	49 1,3-Dichloropropane	76	7.104	7.104	(0.928)	1986046	40.0000	40.848
	44 Tetrachloroethene	166	6.708	6.708	(0.877)	1340251	40.0000	40.116
	48 Chlorodibromomethane	129	7.019	7.019	(0.917)	1087903	40.0000	41.491
	50 1,2-Dibromoethane	107	7.200	7.200	(1.388)	927773	40.0000	41.334
*	52 d5-Chlorobenzene	117	7.653	7.647	(1.000)	885663	10.0000	
	53 Chlorobenzene	112	7.664	7.664	(1.001)	4046655	40.0000	39.606
	54 Ethyl Benzene	91	7.709	7.709	(1.007)	7346207	40.0000	38.424
	55 1,1,1,2-Tetrachloroethane	131	7.732	7.726	(1.010)	1337817	40.0000	40.786
	56 m,p-xylene	106	7.839	7.839	(1.024)	5670742	80.0000	80.268
	57 o-Xylene	106	8.201	8.201	(1.072)	2880461	40.0000	41.123
	58 Styrene	104	8.252	8.252	(1.078)	4693400	40.0000	41.984
	60 Isopropyl Benzene	105	8.484	8.484	(0.874)	6947017	40.0000	37.417
	59 Bromoform	173	8.252	8.247	(0.850)	510224	40.0000	40.032
	64 1,1,2,2-Tetrachloroethane	83	8.920	8.920	(0.918)	1111760	40.0000	38.508
$	61 4-Bromofluorobenzene	95	8.716	8.710	(1.139)	430978	10.0000	10.225
	66 1,2,3-Trichloropropane	110	9.022	9.016	(0.929)	272240	40.0000	38.393
	68 Trans-1,4-Dichloro 2-Butene	53	9.073	9.072	(0.934)	343495	40.0000	38.842
	63 N-Propyl Benzene	91	8.852	8.852	(0.911)	8079533	40.0000	36.321

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	62 Bromobenzene	156	8.790	8.790	(0.905)	1425235	40.0000	38.812
	67 1,3,5-Trimethyl Benzene	105	9.039	9.039	(0.931)	5815421	40.0000	38.656
	65 2-Chloro Toluene	91	8.971	8.965	(0.924)	5152112	40.0000	38.581
	69 4-Chloro Toluene	91	9.118	9.118	(0.939)	5246258	40.0000	38.331
	70 T-Butyl Benzene	119	9.310	9.310	(0.959)	4937801	40.0000	39.089
	71 1,2,4-Trimethylbenzene	105	9.378	9.378	(0.966)	5867578	40.0000	38.908
	72 S-Butyl Benzene	105	9.474	9.468	(0.976)	7202079	40.0000	37.153
	73 4-Isopropyl Toluene	119	9.616	9.610	(0.990)	5828453	40.0000	38.753
	74 1,3-Dichlorobenzene	146	9.644	9.638	(0.993)	2925841	40.0000	39.161
*	75 d4-1,4-Dichlorobenzene	152	9.712	9.712	(1.000)	435024	10.0000	
	76 1,4-Dichlorobenzene	146	9.729	9.723	(1.002)	2940715	40.0000	38.374
	77 N-Butyl Benzene	91	9.995	9.995	(1.029)	5791923	40.0000	38.671
$	78 d4-1,2-Dichlorobenzene	152	10.096	10.091	(1.040)	390277	10.0000	10.190
	79 1,2-Dichlorobenzene	146	10.102	10.102	(1.040)	2651762	40.0000	39.133
	81 1,2-Dibromo 3-Chloropropane	75	10.849	10.843	(1.117)	189391	40.0000	39.032
	83 1,2,4-Trichlorobenzene	180	11.494	11.494	(1.183)	1645519	40.0000	40.386
	82 Hexachloro 1,3-Butadiene	225	11.488	11.488	(1.183)	615248	40.0000	39.262
	84 Naphthalene	128	11.799	11.799	(1.215)	3440786	40.0000	40.972
	85 1,2,3-Trichlorobenzene	180	11.975	11.974	(1.233)	1322417	40.0000	40.831

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt5.i
Lab File ID: 03091013.d
Lab Smp Id: 40 0309
Analysis Type: VOA
Quant Type: ISTD
Operator: PC
Method File: /chem1/nt5.i/09MAR10.b/8260c030910L.m
Misc Info: 10-

Calibration Date: 09-MAR-2010
Calibration Time: 14:12
Client Smp ID: 40 ppb
Level: LOW
Sample Type: WATER

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
32 Pentafluorobenzen	526014	263007	1052028	544013	3.42
35 1,4-Difluorobenze	985179	492590	1970358	1027012	4.25
52 d5-Chlorobenzene	845025	422512	1690050	885663	4.81
75 d4-1,4-Dichlorobe	383446	191723	766892	435024	13.45

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
32 Pentafluorobenzen	4.74	4.24	5.24	4.74	0.00
35 1,4-Difluorobenze	5.19	4.69	5.69	5.19	0.00
52 d5-Chlorobenzene	7.65	7.15	8.15	7.65	0.07
75 d4-1,4-Dichlorobe	9.71	9.21	10.21	9.71	0.00

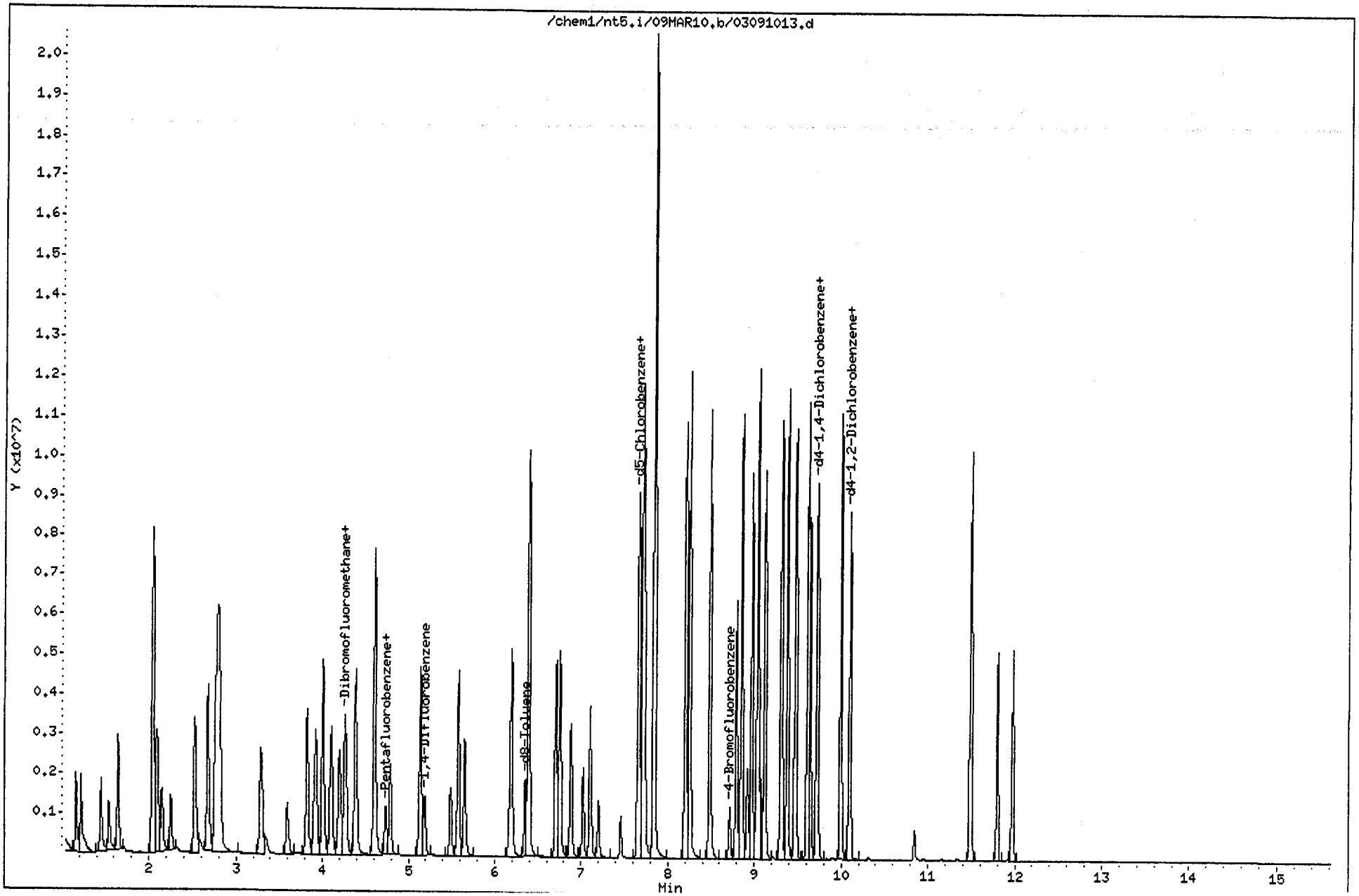
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem1/nt5.i/09MAR10.b/03091013.d
Date : 09-MAR-2010 15:03
Client ID: 40 ppb
Sample Info: 40 0309,10,10,0,

Column phase: RTXVMS

Instrument: nt5.i

Operator: PC
Column diameter: 0.18



PC 3/10/10

Data File: /chem1/nt5.i/09MAR10.b/03091014.d
Report Date: 10-Mar-2010 10:00

Analytical Resources, Inc.

SW8260C 10 ML

Data file : /chem1/nt5.i/09MAR10.b/03091014.d
Lab Smp Id: 60 0309 Client Smp ID: 60 ppb
Inj Date : 09-MAR-2010 15:29
Operator : PC Inst ID: nt5.i
Smp Info : 60 0309,10,10,0,
Misc Info : 10-
Comment :
Method : /chem1/nt5.i/09MAR10.b/8260c030910L.m
Meth Date : 10-Mar-2010 09:57 paul Quant Type: ISTD
Cal Date : 09-MAR-2010 15:29 Cal File: 03091014.d
Als bottle: 1 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	10.00000	Purge Volume (mL)
Sa	10.00000	Sample Amount (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Dichlorodifluoromethane	85	1.034	1.034	(0.218)	1432412	60.0000	64.725
2 Chloromethane	50	1.164	1.164	(0.246)	2664264	60.0000	60.341
3 Vinyl Chloride	62	1.221	1.221	(0.258)	2892624	60.0000	59.512
4 Bromomethane	94	1.447	1.447	(0.305)	1729831	60.0000	68.260
5 Chloroethane	64	1.543	1.537	(0.326)	1894909	60.0000	60.798(M)
6 Trichlorofluoromethane	101	1.645	1.645	(0.347)	2846364	60.0000	59.708
12 Acrolein	56	2.318	2.318	(0.489)	100366	60.0000	61.388
9 112Trichloro122Trifluoroethane	101	2.086	2.086	(0.440)	2283313	60.0000	60.590
14 Acetone	43	2.584	2.584	(0.545)	321283	60.0000	56.940
7 1,1-Dichloroethene	96	2.041	2.041	(0.431)	2128739	60.0000	59.685
11 Bromoethane	108	2.250	2.250	(0.475)	1633292	60.0000	62.283
10 Iodomethane	142	2.143	2.143	(0.452)	2599527	60.0000	57.887
13 Methylene Chloride	84	2.528	2.527	(0.533)	2330549	60.0000	59.586
18 Acrylonitrile	53	3.348	3.348	(0.706)	489931	60.0000	62.208
16 Methyl tert butyl ether	73	2.799	2.799	(0.591)	10204061	120.000	111.49
8 Carbon Disulfide	76	2.047	2.047	(0.432)	7842792	60.0000	57.021

			QUANT SIG					AMOUNTS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
	15	Trans-1,2-Dichloroethene	96	2.675	2.675	(0.564)	2348385	60.0000	59.068
	19	Vinyl Acetate	43	3.591	3.591	(0.758)	3190300	60.0000	62.515
	17	1,1-Dichloroethane	63	3.286	3.285	(0.693)	4599645	60.0000	57.895
	29	2-Butanone	72	4.394	4.400	(0.927)	271740	60.0000	57.006
	21	2,2-Dichloropropane	77	3.919	3.919	(0.827)	3534391	60.0000	56.305
	20	Cis-1,2-Dichloroethene	96	3.823	3.823	(0.807)	2450559	60.0000	58.961
*	32	Pentafluorobenzene	168	4.739	4.739	(1.000)	557391	10.0000	
	23	Chloroform	83	4.100	4.100	(0.865)	3970326	60.0000	57.978
	22	Bromochloromethane	128	4.004	4.004	(0.845)	1879550	120.000	119.12
$	25	Dibromofluoromethane	111	4.264	4.264	(0.900)	258144	10.0000	9.917
	26	1,1,1-Trichloroethane	97	4.264	4.264	(0.900)	3406047	60.0000	57.865
	28	1,1-Dichloropropene	75	4.383	4.383	(0.845)	3495757	60.0000	59.248
	24	Carbon Tetrachloride	117	4.196	4.202	(0.809)	2741583	60.0000	58.446
$	31	d4-1,2-Dichloroethane	65	4.728	4.728	(0.998)	290779	10.0000	9.818
	33	1,2-Dichloroethane	62	4.790	4.790	(0.924)	2564856	60.0000	58.408
	30	Benzene	78	4.604	4.604	(0.888)	9417501	60.0000	54.022
*	35	1,4-Difluorobenzene	114	5.186	5.186	(1.000)	1034968	10.0000	
	34	Trichloroethene	130	5.135	5.135	(0.990)	2233309	60.0000	58.655
	38	1,2-Dichloropropane	63	5.577	5.577	(1.075)	2644274	60.0000	58.380
	39	Bromodichloromethane	83	5.650	5.650	(1.089)	2826278	60.0000	59.457
	37	Dibromomethane	93	5.486	5.486	(1.058)	991232	60.0000	59.751
	40	2-Chloroethyl Vinyl Ether	63	6.171	6.170	(1.190)	1163911	60.0000	63.036
	45	4-Methyl-2-Pentanone	58	6.742	6.742	(1.300)	557783	60.0000	60.345
	41	Cis 1,3-dichloropropene	75	6.193	6.193	(1.194)	3788604	60.0000	58.496
$	42	d8-Toluene	98	6.352	6.346	(1.225)	1195111	10.0000	9.931
	43	Toluene	92	6.391	6.391	(1.232)	6022109	60.0000	56.399
	46	Trans 1,3-Dichloropropene	75	6.753	6.753	(1.302)	3082966	60.0000	59.860
	51	2-Hexanone	43	7.455	7.455	(0.974)	937312	60.0000	61.968
	47	1,1,2-Trichloroethane	97	6.883	6.883	(1.327)	1485073	60.0000	58.951
	49	1,3-Dichloropropane	76	7.104	7.104	(0.928)	2898042	60.0000	58.801
	44	Tetrachloroethene	166	6.708	6.708	(0.877)	1974506	60.0000	58.302
	48	Chlorodibromomethane	129	7.019	7.019	(0.917)	1619885	60.0000	60.946
	50	1,2-Dibromoethane	107	7.200	7.200	(1.388)	1373884	60.0000	60.738
*	52	d5-Chlorobenzene	117	7.653	7.647	(1.000)	897781	10.0000	
	53	Chlorobenzene	112	7.664	7.664	(1.001)	5812323	60.0000	56.119
	54	Ethyl Benzene	91	7.709	7.709	(1.007)	9810911	60.0000	50.622
	55	1,1,1,2-Tetrachloroethane	131	7.732	7.726	(1.010)	1964285	60.0000	59.077
	56	m,p-xylene	106	7.839	7.839	(1.024)	7773857	120.000	108.55
	57	o-Xylene	106	8.207	8.201	(1.072)	4157398	60.0000	58.553
	58	Styrene	104	8.252	8.252	(1.078)	6564814	60.0000	57.932
	60	Isopropyl Benzene	105	8.484	8.484	(0.874)	9400133	60.0000	49.027
	59	Bromoform	173	8.252	8.247	(0.850)	773668	60.0000	58.781
	64	1,1,2,2-Tetrachloroethane	83	8.920	8.920	(0.918)	1656485	60.0000	55.560
$	61	4-Bromofluorobenzene	95	8.716	8.710	(1.139)	441402	10.0000	10.331
	66	1,2,3-Trichloropropane	110	9.022	9.016	(0.929)	402967	60.0000	55.031
	68	Trans-1,4-Dichloro 2-Butene	53	9.073	9.072	(0.934)	543936	60.0000	59.562
	63	N-Propyl Benzene	91	8.852	8.852	(0.911)	10552574	60.0000	45.938

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
	62 Bromobenzene	156	8.795	8.790	(0.906)	2106421	60.0000	55.547
	67 1,3,5-Trimethyl Benzene	105	9.039	9.039	(0.931)	8077793	60.0000	51.995
	65 2-Chloro Toluene	91	8.971	8.965	(0.924)	7259873	60.0000	52.645
	69 4-Chloro Toluene	91	9.118	9.118	(0.939)	7353547	60.0000	52.028
	70 T-Butyl Benzene	119	9.310	9.310	(0.959)	7080891	60.0000	54.281
	71 1,2,4-Trimethylbenzene	105	9.384	9.378	(0.966)	8129101	60.0000	52.198
	72 S-Butyl Benzene	105	9.474	9.468	(0.976)	9741226	60.0000	48.662
	73 4-Isopropyl Toluene	119	9.616	9.610	(0.990)	8144861	60.0000	52.441
	74 1,3-Dichlorobenzene	146	9.644	9.638	(0.993)	4339441	60.0000	56.243
*	75 d4-1,4-Dichlorobenzene	152	9.712	9.712	(1.000)	449238	10.0000	
	76 1,4-Dichlorobenzene	146	9.729	9.723	(1.002)	4359921	60.0000	55.093
	77 N-Butyl Benzene	91	9.995	9.995	(1.029)	8005168	60.0000	51.757
$	78 d4-1,2-Dichlorobenzene	152	10.096	10.091	(1.040)	398596	10.0000	10.078
	79 1,2-Dichlorobenzene	146	10.102	10.102	(1.040)	3943995	60.0000	56.361
	81 1,2-Dibromo 3-Chloropropane	75	10.849	10.843	(1.117)	289747	60.0000	57.825
	83 1,2,4-Trichlorobenzene	180	11.494	11.494	(1.183)	2482704	60.0000	59.004
	82 Hexachloro 1,3-Butadiene	225	11.488	11.488	(1.183)	930451	60.0000	57.497
	84 Naphthalene	128	11.799	11.799	(1.215)	5087282	60.0000	58.662
	85 1,2,3-Trichlorobenzene	180	11.975	11.974	(1.233)	1983750	60.0000	59.312

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt5.i
Lab File ID: 03091014.d
Lab Smp Id: 60 0309
Analysis Type: VOA
Quant Type: ISTD
Operator: PC
Method File: /chem1/nt5.i/09MAR10.b/8260c030910L.m
Misc Info: 10-

Calibration Date: 09-MAR-2010
Calibration Time: 14:12
Client Smp ID: 60 ppb
Level: LOW
Sample Type: WATER

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
32 Pentafluorobenzen	526014	263007	1052028	557391	5.97
35 1,4-Difluorobenze	985179	492590	1970358	1034968	5.05
52 d5-Chlorobenzene	845025	422512	1690050	897781	6.24
75 d4-1,4-Dichlorobe	383446	191723	766892	449238	17.16

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
32 Pentafluorobenzen	4.74	4.24	5.24	4.74	0.00
35 1,4-Difluorobenze	5.19	4.69	5.69	5.19	0.00
52 d5-Chlorobenzene	7.65	7.15	8.15	7.65	0.07
75 d4-1,4-Dichlorobe	9.71	9.21	10.21	9.71	0.00

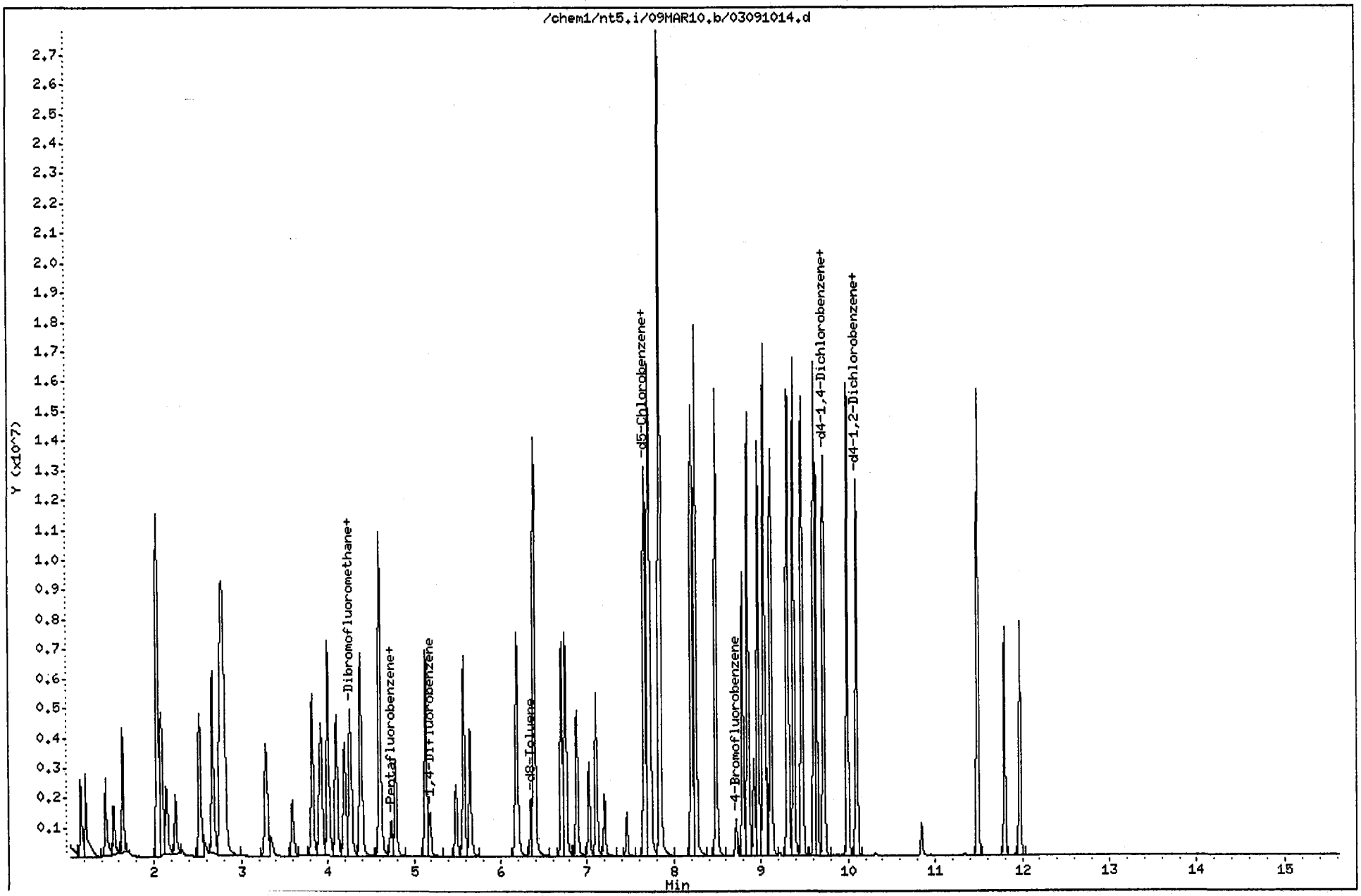
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem1/nt5.i/09MAR10.b/03091014.d
Date : 09-MAR-2010 15:29
Client ID: 60 ppb
Sample Info: 60 0309,10,10,0,

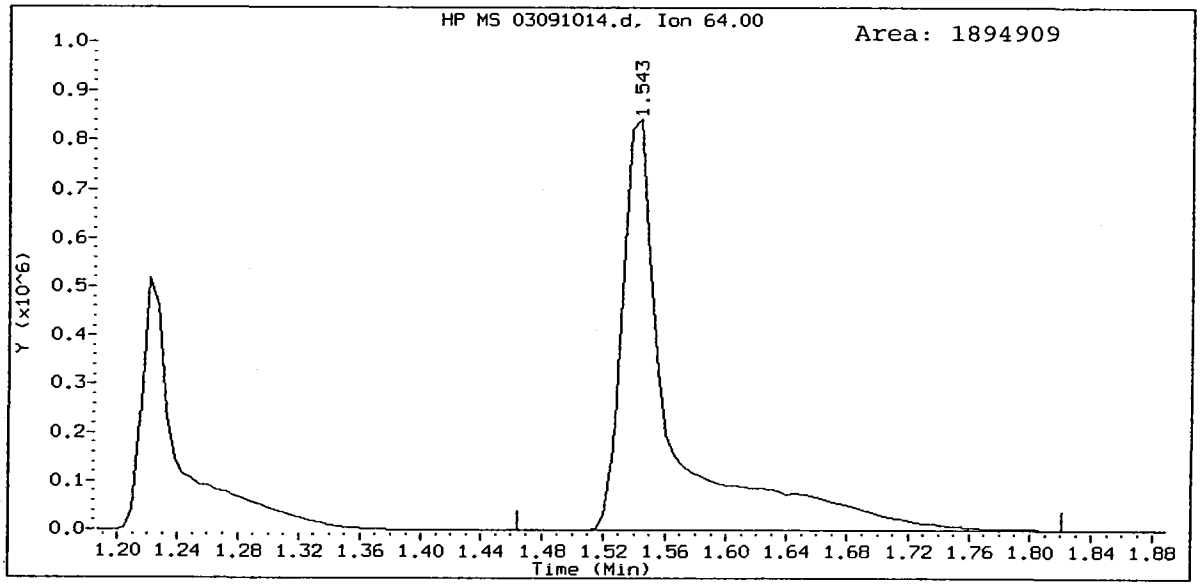
Instrument: nt5.i

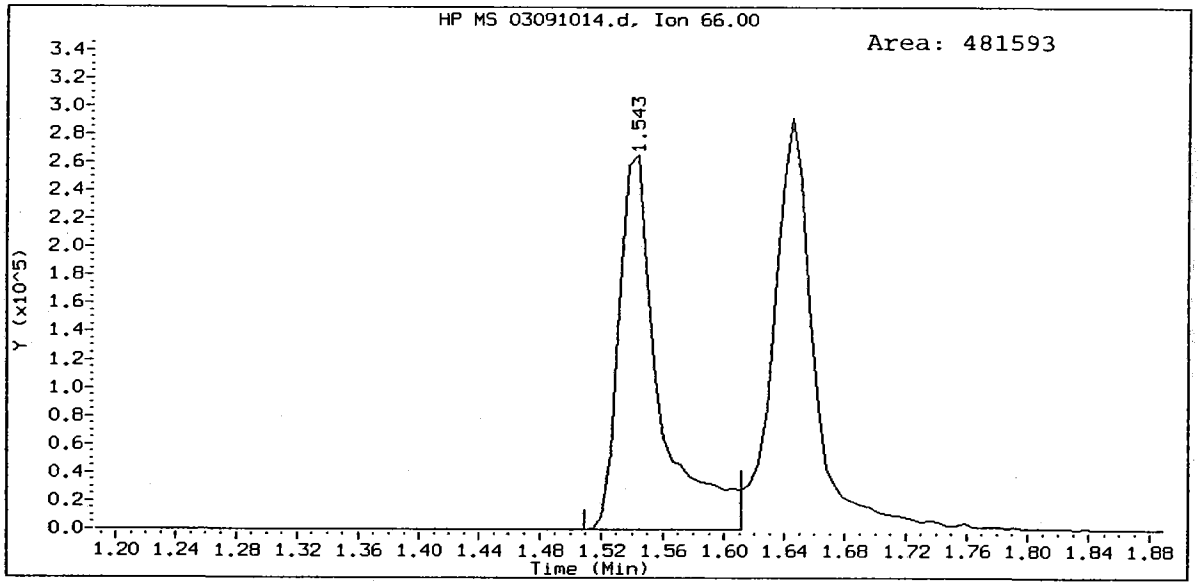
Operator: PC
Column diameter: 0.18

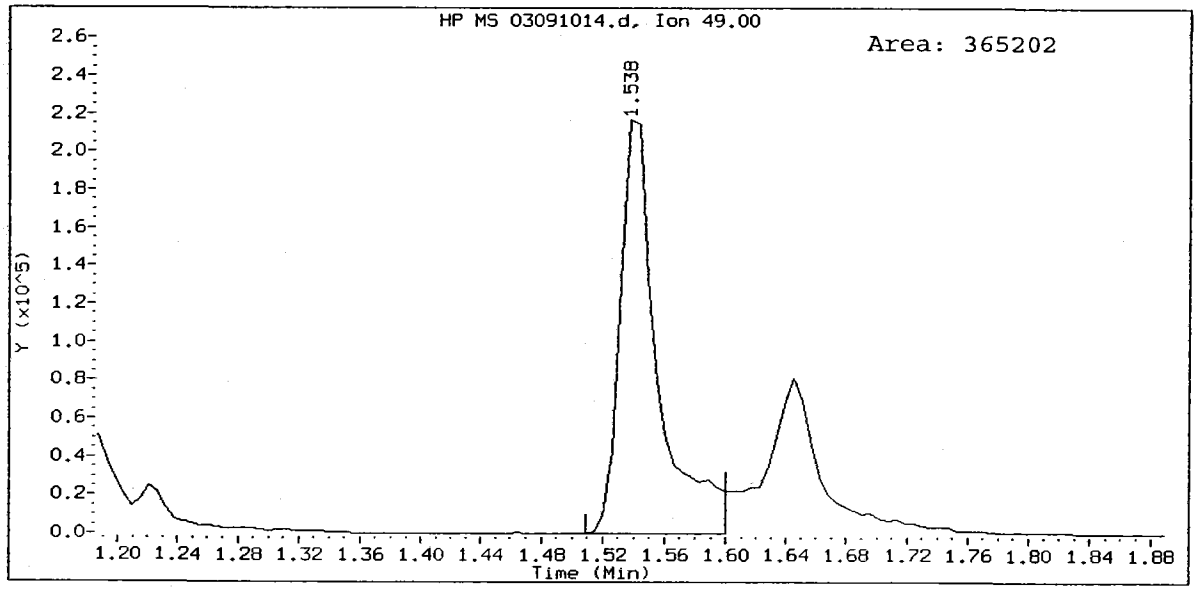
Column phase: RTXVMS



60 0309, /chem1/nt5.i/09MAR10.b/03091014.d
Chloroethane Amount: 60.80







PS 3/10/10

Analytical Resources, Inc.

SW8260C 10 ML

Data file : /chem1/nt5.i/09MAR10.b/03091015.d
Lab Smp Id: 150 0309 Client Smp ID: 150 ppb ketones
Inj Date : 09-MAR-2010 15:54
Operator : PC Inst ID: nt5.i
Smp Info : 150 0309,10,10,0,
Misc Info : 10-
Comment :
Method : /chem1/nt5.i/09MAR10.b/8260c030910L.m
Meth Date : 10-Mar-2010 09:57 paul Quant Type: ISTD
Cal Date : 09-MAR-2010 15:54 Cal File: 03091015.d
Als bottle: 1 Calibration Sample, Level: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	10.00000	Purge Volume (mL)
Sa	10.00000	Sample Amount (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	2 Chloromethane	50	1.158	1.164	(0.244)	20918	150.000	0.4728
	4 Bromomethane	94	1.447	1.447	(0.305)	598576	150.000	23.574
	12 Acrolein	56	2.318	2.318	(0.489)	257288	150.000	157.06
	9 112Trichloro122Trifluoroethane	101	2.086	2.086	(0.440)	5611143	150.000	148.61
	14 Acetone	43	2.584	2.584	(0.545)	841987	150.000	148.93
	11 Bromoethane	108	2.250	2.250	(0.475)	3797979	150.000	144.55
	10 Iodomethane	142	2.143	2.143	(0.452)	5716364	150.000	127.04
	13 Methylene Chloride	84	2.522	2.527	(0.532)	35042	150.000	0.8942(M)
	18 Acrylonitrile	53	3.348	3.348	(0.706)	1239524	150.000	157.08
	16 Methyl tert butyl ether	73	2.799	2.799	(0.591)	12599667	150.000	137.39
	8 Carbon Disulfide	76	2.047	2.047	(0.432)	14654605	150.000	106.34
	19 Vinyl Acetate	43	3.591	3.591	(0.758)	7620376	150.000	149.03
	29 2-Butanone	72	4.406	4.400	(0.930)	344921	150.000	72.216
*	32 Pentafluorobenzene	168	4.739	4.739	(1.000)	558484	10.0000	
	22 Bromochloromethane	128	4.004	4.004	(0.845)	2391298	300.000	151.25
$	25 Dibromofluoromethane	111	4.264	4.264	(0.900)	254126	10.0000	9.743

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
$	31 d4-1,2-Dichloroethane	65	4.728	4.728	(0.998)	293758	10.0000	9.899
*	35 1,4-Difluorobenzene	114	5.186	5.186	(1.000)	1026072	10.0000	
	37 Dibromomethane	93	5.486	5.486	(1.058)	2435	150.000	0.1481
	40 2-Chloroethyl Vinyl Ether	63	6.170	6.170	(1.190)	2856740	150.000	156.06
	45 4-Methyl-2-Pentanone	58	6.742	6.742	(1.300)	1371052	150.000	149.62
$	42 d8-Toluene	98	6.346	6.346	(1.224)	1203127	10.0000	10.085
	46 Trans 1,3-Dichloropropene	75	6.753	6.753	(1.302)	7012	150.000	0.1373
	51 2-Hexanone	43	7.455	7.455	(0.975)	2283265	150.000	150.66
	50 1,2-Dibromoethane	107	7.200	7.200	(1.388)	2735	150.000	0.1220
*	52 d5-Chlorobenzene	117	7.647	7.647	(1.000)	899516	10.0000	
	53 Chlorobenzene	112	7.664	7.664	(1.002)	10391	150.000	0.1001
	54 Ethyl Benzene	91	7.839	7.709	(1.025)	23951	150.000	0.1233
	56 m,p-xylene	106	7.839	7.839	(1.025)	11521	300.000	0.1606
	58 Styrene	104	8.247	8.252	(1.078)	15271	150.000	0.1345
	64 1,1,2,2-Tetrachloroethane	83	8.920	8.920	(0.918)	4636	150.000	0.1807
$	61 4-Bromofluorobenzene	95	8.710	8.710	(1.139)	415431	10.0000	9.704
	68 Trans-1,4-Dichloro 2-Butene	53	9.072	9.072	(0.934)	1196168	150.000	152.22
	63 N-Propyl Benzene	91	8.846	8.852	(0.911)	25345	150.000	0.1282
	62 Bromobenzene	156	Compound Not Detected.					
	67 1,3,5-Trimethyl Benzene	105	9.039	9.039	(0.931)	26139	150.000	0.1955
	65 2-Chloro Toluene	91	9.072	8.965	(0.934)	237048	150.000	1.998
	69 4-Chloro Toluene	91	9.118	9.118	(0.939)	31506	150.000	0.2591
	70 T-Butyl Benzene	119	9.304	9.310	(0.958)	16403	150.000	0.1461
	71 1,2,4-Trimethylbenzene	105	9.384	9.378	(0.966)	32236	150.000	0.2406
	72 S-Butyl Benzene	105	9.468	9.468	(0.975)	31269	150.000	0.1815
	73 4-Isopropyl Toluene	119	9.616	9.610	(0.990)	31775	150.000	0.2378
	74 1,3-Dichlorobenzene	146	9.638	9.638	(0.992)	25102	150.000	0.3781
*	75 d4-1,4-Dichlorobenzene	152	9.712	9.712	(1.000)	386560	10.0000	
	76 1,4-Dichlorobenzene	146	9.723	9.723	(1.001)	31959	150.000	0.4693
	77 N-Butyl Benzene	91	9.995	9.995	(1.029)	47626	150.000	0.3579
$	78 d4-1,2-Dichlorobenzene	152	10.091	10.091	(1.039)	341815	10.0000	10.043
	79 1,2-Dichlorobenzene	146	10.102	10.102	(1.040)	26991	150.000	0.4483
	81 1,2-Dibromo 3-Chloropropane	75	10.843	10.843	(1.116)	2280	150.000	0.5288
	83 1,2,4-Trichlorobenzene	180	11.494	11.494	(1.183)	26305	150.000	0.7265
	82 Hexachloro 1,3-Butadiene	225	11.488	11.488	(1.183)	11728	150.000	0.8422
	84 Naphthalene	128	11.799	11.799	(1.215)	55184	150.000	0.7395
	85 1,2,3-Trichlorobenzene	180	11.974	11.974	(1.233)	24295	150.000	0.8442

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt5.i
Lab File ID: 03091015.d
Lab Smp Id: 150 0309
Analysis Type: VOA
Quant Type: ISTD
Operator: PC
Method File: /chem1/nt5.i/09MAR10.b/8260c030910L.m
Misc Info: 10-

Calibration Date: 09-MAR-2010
Calibration Time: 14:12
Client Smp ID: 150 ppb ketones
Level: LOW
Sample Type: WATER

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
32 Pentafluorobenzen	526014	263007	1052028	558484	6.17
35 1,4-Difluorobenze	985179	492590	1970358	1026072	4.15
52 d5-Chlorobenzene	845025	422512	1690050	899516	6.45
75 d4-1,4-Dichlorobe	383446	191723	766892	386560	0.81

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
32 Pentafluorobenzen	4.74	4.24	5.24	4.74	0.00
35 1,4-Difluorobenze	5.19	4.69	5.69	5.19	0.00
52 d5-Chlorobenzene	7.65	7.15	8.15	7.65	0.00
75 d4-1,4-Dichlorobe	9.71	9.21	10.21	9.71	0.00

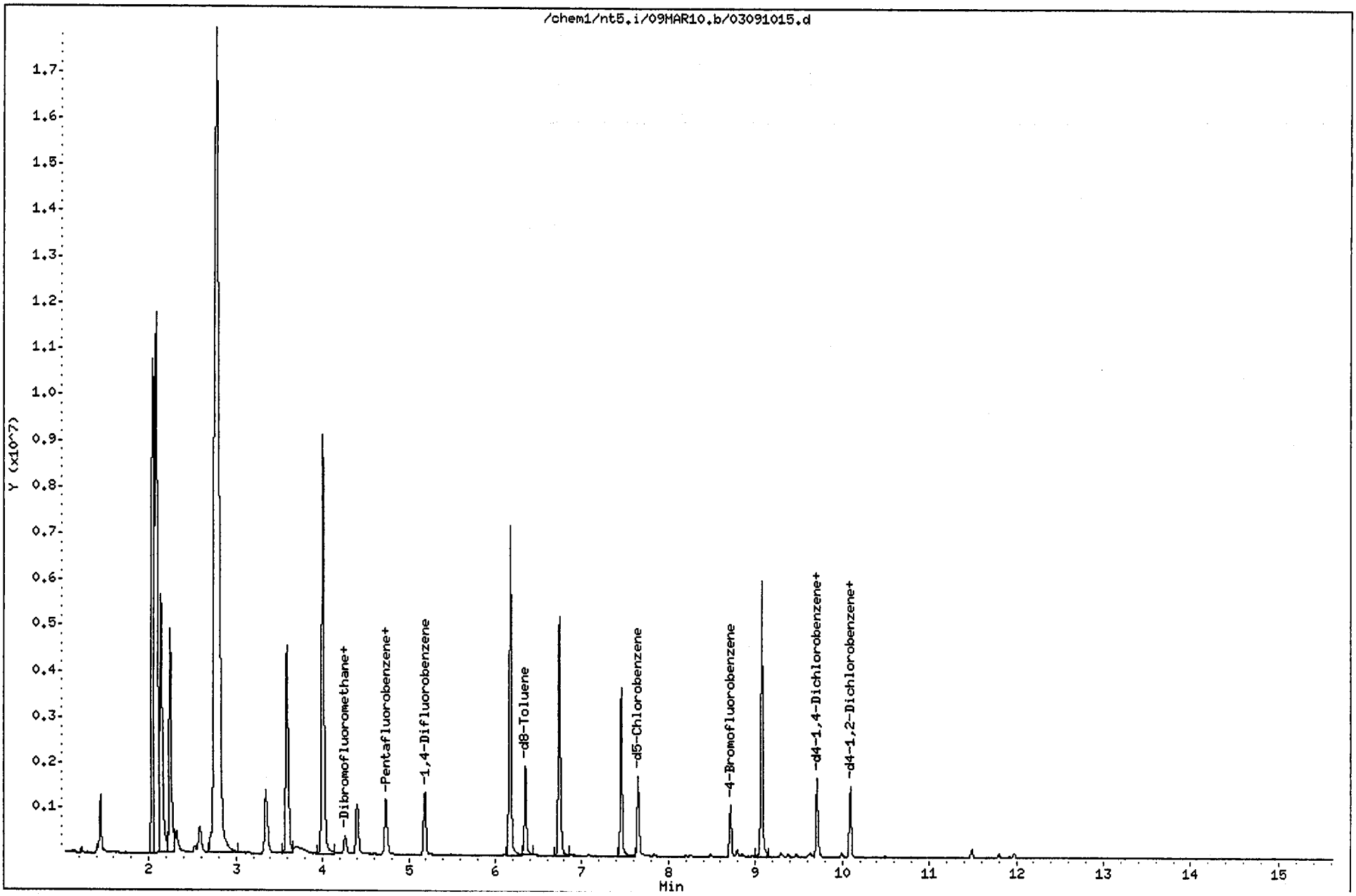
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem1/nt5.i/09MAR10.b/03091015.d
Date : 09-MAR-2010 15:54
Client ID: 150 ppb ketones
Sample Info: 150 0309,10,10,0,

Column phase: RTXVMS

Instrument: nt5.i

Operator: PC
Column diameter: 0.18



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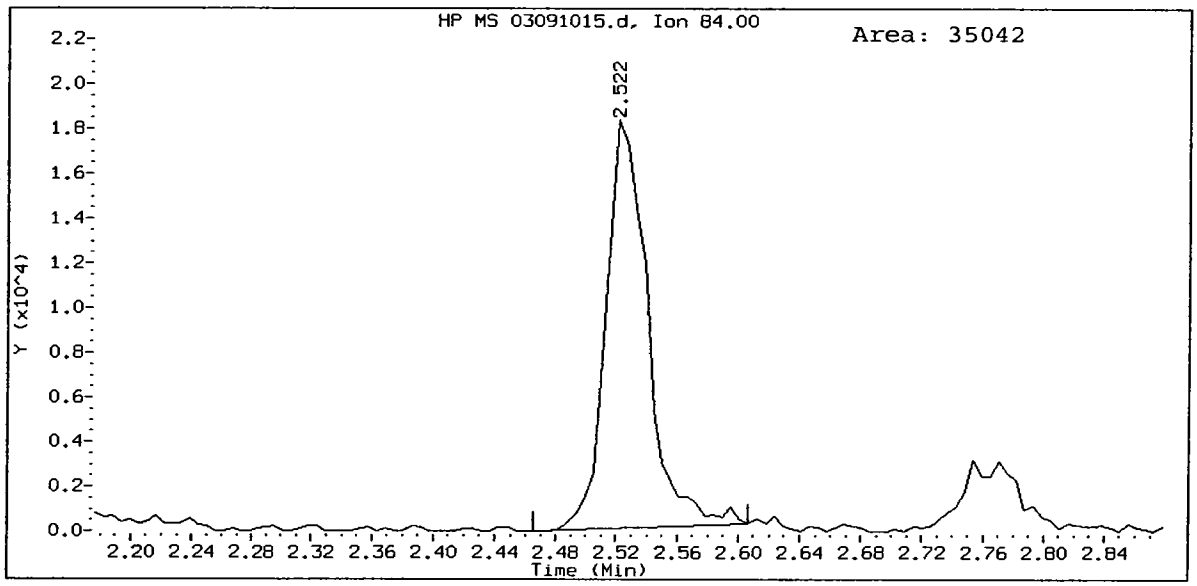
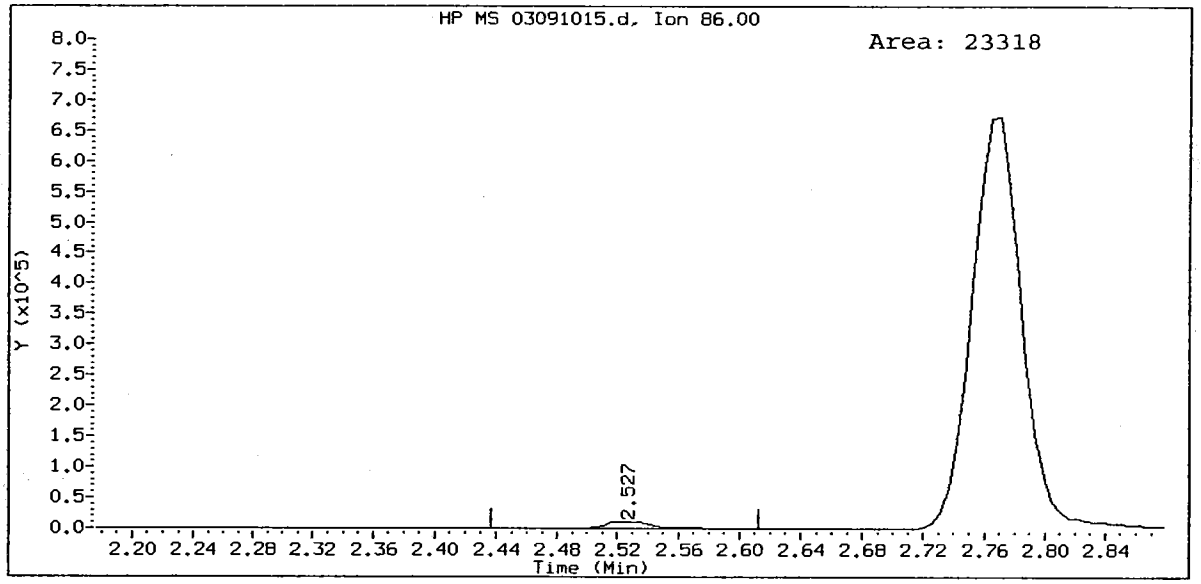
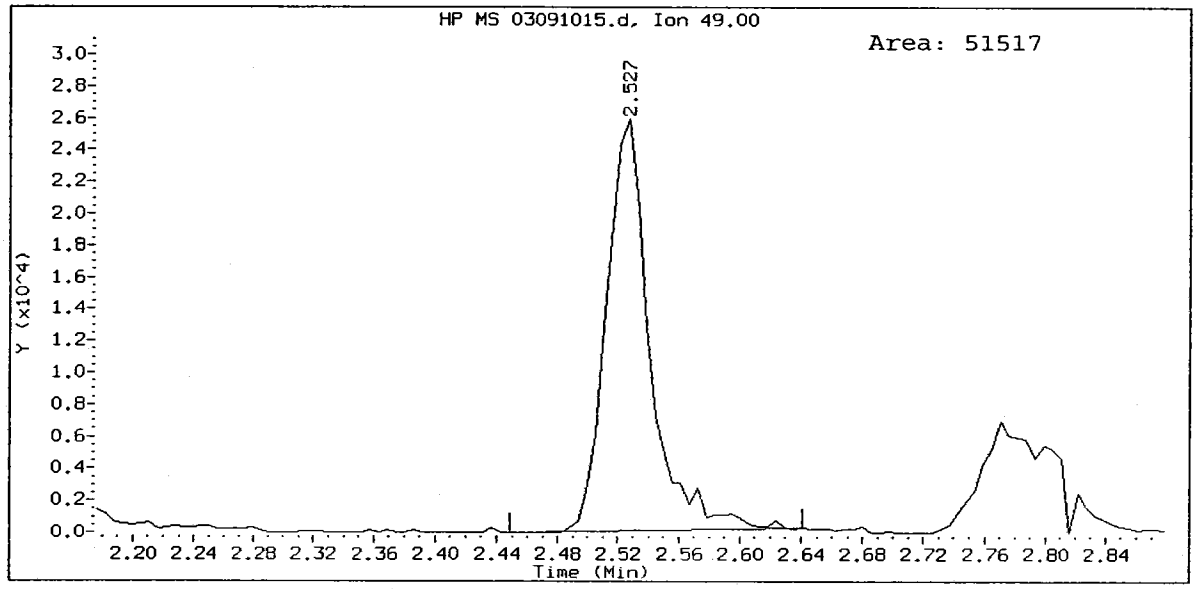
Methylene Chloride Amount: 0.89







PC 3/10/10

Analytical Resources, Inc.

SW8260C 10 ML

Data file : /chem1/nt5.i/09MAR10.b/03091017.d
Lab Smp Id: 2 0309 Client Smp ID: 2 ppb
Inj Date : 09-MAR-2010 16:45
Operator : PC Inst ID: nt5.i
Smp Info : 2 0309,10,10,0,
Misc Info : 10-
Comment :
Method : /chem1/nt5.i/09MAR10.b/8260c030910L.m
Meth Date : 10-Mar-2010 09:57 paul Quant Type: ISTD
Cal Date : 09-MAR-2010 16:45 Cal File: 03091017.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	10.00000	Purge Volume (mL)
Sa	10.00000	Sample Amount (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Dichlorodifluoromethane	85	1.034	1.034	(0.218)	45835	2.00000	2.195(M)
2 Chloromethane	50	1.164	1.164	(0.246)	84709	2.00000	2.033
3 Vinyl Chloride	62	1.221	1.221	(0.258)	94785	2.00000	2.066(M)
4 Bromomethane	94	1.447	1.447	(0.305)	37435	2.00000	1.565(M)
5 Chloroethane	64	1.538	1.537	(0.324)	66712	2.00000	2.268(M)
6 Trichlorofluoromethane	101	1.645	1.645	(0.347)	95561	2.00000	2.124
12 Acrolein	56	2.324	2.318	(0.490)	3089	2.00000	2.002
9 112Trichloro122Trifluoroethane	101	2.086	2.086	(0.440)	74770	2.00000	2.102
14 Acetone	43	2.584	2.584	(0.545)	12526	2.00000	2.352
7 1,1-Dichloroethene	96	2.041	2.041	(0.431)	71204	2.00000	2.115
11 Bromoethane	108	2.250	2.250	(0.475)	49392	2.00000	1.996
10 Iodomethane	142	2.149	2.143	(0.453)	104150	2.00000	2.458(M)
13 Methylene Chloride	84	2.528	2.527	(0.533)	84638	2.00000	2.293
18 Acrylonitrile	53	3.354	3.348	(0.708)	14149	2.00000	1.904
16 Methyl tert butyl ether	73	2.805	2.799	(0.592)	345771	4.00000	4.003
8 Carbon Disulfide	76	2.047	2.047	(0.432)	278836	2.00000	2.148

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
	15 Trans-1,2-Dichloroethene	96	2.675	2.675	(0.564)	75625	2.00000	2.016
	19 Vinyl Acetate	43	3.591	3.591	(0.758)	98007	2.00000	2.035
	17 1,1-Dichloroethane	63	3.286	3.285	(0.693)	155113	2.00000	2.069
	29 2-Butanone	72	4.411	4.400	(0.931)	10410	2.00000	2.314(M)
	21 2,2-Dichloropropane	77	3.919	3.919	(0.827)	125425	2.00000	2.117
	20 Cis-1,2-Dichloroethene	96	3.823	3.823	(0.807)	80705	2.00000	2.058
*	32 Pentafluorobenzene	168	4.739	4.739	(1.000)	526014	10.0000	
	23 Chloroform	83	4.100	4.100	(0.865)	134693	2.00000	2.084
	22 Bromochloromethane	128	4.004	4.004	(0.845)	59037	4.00000	3.965
$	25 Dibromofluoromethane	111	4.264	4.264	(0.900)	247095	10.0000	10.058
	26 1,1,1-Trichloroethane	97	4.264	4.264	(0.900)	113455	2.00000	2.042
	28 1,1-Dichloropropene	75	4.383	4.383	(0.845)	114458	2.00000	2.038
	24 Carbon Tetrachloride	117	4.196	4.202	(0.809)	89820	2.00000	2.012
$	31 d4-1,2-Dichloroethane	65	4.728	4.728	(0.998)	277210	10.0000	9.918
	33 1,2-Dichloroethane	62	4.790	4.790	(0.924)	83405	2.00000	1.995
	30 Benzene	78	4.604	4.604	(0.888)	350274	2.00000	2.111
*	35 1,4-Difluorobenzene	114	5.186	5.186	(1.000)	985179	10.0000	
	34 Trichloroethene	130	5.135	5.135	(0.990)	74394	2.00000	2.053
	38 1,2-Dichloropropane	63	5.577	5.577	(1.075)	87314	2.00000	2.025
	39 Bromodichloromethane	83	5.650	5.650	(1.089)	91781	2.00000	2.028
	37 Dibromomethane	93	5.486	5.486	(1.058)	31828	2.00000	2.016
	40 2-Chloroethyl Vinyl Ether	63	6.171	6.170	(1.190)	35227	2.00000	2.004
	45 4-Methyl-2-Pentanone	58	6.759	6.742	(1.303)	19732	2.00000	2.243(M)
	41 Cis 1,3-dichloropropene	75	6.193	6.193	(1.194)	127060	2.00000	2.061
$	42 d8-Toluene	98	6.346	6.346	(1.224)	1137409	10.0000	9.929
	43 Toluene	92	6.391	6.391	(1.232)	210207	2.00000	2.068
	46 Trans 1,3-Dichloropropene	75	6.753	6.753	(1.302)	96117	2.00000	1.961
	51 2-Hexanone	43	7.460	7.455	(0.976)	29324	2.00000	2.060
	47 1,1,2-Trichloroethane	97	6.883	6.883	(1.327)	49482	2.00000	2.064
	49 1,3-Dichloropropane	76	7.104	7.104	(0.929)	94552	2.00000	2.038
	44 Tetrachloroethene	166	6.702	6.708	(0.876)	66741	2.00000	2.094
	48 Chlorodibromomethane	129	7.019	7.019	(0.918)	51687	2.00000	2.066
	50 1,2-Dibromoethane	107	7.200	7.200	(1.388)	44167	2.00000	2.051
*	52 d5-Chlorobenzene	117	7.647	7.647	(1.000)	845025	10.0000	
	53 Chlorobenzene	112	7.664	7.664	(1.002)	201531	2.00000	2.067
	54 Ethyl Benzene	91	7.709	7.709	(1.008)	387567	2.00000	2.125
	55 1,1,1,2-Tetrachloroethane	131	7.726	7.726	(1.010)	63321	2.00000	2.023
	56 m,p-xylene	106	7.839	7.839	(1.025)	286869	4.00000	4.256
	57 o-Xylene	106	8.201	8.201	(1.072)	134148	2.00000	2.007
	58 Styrene	104	8.252	8.252	(1.079)	217691	2.00000	2.041
	60 Isopropyl Benzene	105	8.484	8.484	(0.874)	368113	2.00000	2.249
	59 Bromoform	173	8.247	8.247	(0.849)	23860	2.00000	2.124
	64 1,1,2,2-Tetrachloroethane	83	8.920	8.920	(0.918)	52743	2.00000	2.073
$	61 4-Bromofluorobenzene	95	8.711	8.710	(1.139)	399389	10.0000	9.931
	66 1,2,3-Trichloropropane	110	9.022	9.016	(0.929)	13035	2.00000	2.086
	68 Trans-1,4-Dichloro 2-Butene	53	9.073	9.072	(0.934)	17541	2.00000	2.250
	63 N-Propyl Benzene	91	8.852	8.852	(0.911)	435025	2.00000	2.219

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
	62 Bromobenzene	156	8.795	8.790	(0.906)	68155	2.00000	2.106
	67 1,3,5-Trimethyl Benzene	105	9.039	9.039	(0.931)	282143	2.00000	2.128
	65 2-Chloro Toluene	91	8.965	8.965	(0.923)	253784	2.00000	2.156
	69 4-Chloro Toluene	91	9.118	9.118	(0.939)	257516	2.00000	2.135
	70 T-Butyl Benzene	119	9.310	9.310	(0.959)	236341	2.00000	2.123
	71 1,2,4-Trimethylbenzene	105	9.378	9.378	(0.966)	281196	2.00000	2.115
	72 S-Butyl Benzene	105	9.469	9.468	(0.975)	366627	2.00000	2.146
	73 4-Isopropyl Toluene	119	9.610	9.610	(0.990)	288506	2.00000	2.176
	74 1,3-Dichlorobenzene	146	9.638	9.638	(0.992)	136531	2.00000	2.073
*	75 d4-1,4-Dichlorobenzene	152	9.712	9.712	(1.000)	383446	10.0000	
	76 1,4-Dichlorobenzene	146	9.723	9.723	(1.001)	139219	2.00000	2.061
	77 N-Butyl Benzene	91	9.995	9.995	(1.029)	286812	2.00000	2.173
$	78 d4-1,2-Dichlorobenzene	152	10.091	10.091	(1.039)	335129	10.0000	9.927
	79 1,2-Dichlorobenzene	146	10.102	10.102	(1.040)	122390	2.00000	2.049
	81 1,2-Dibromo 3-Chloropropane	75	10.843	10.843	(1.116)	9557	2.00000	2.235
	83 1,2,4-Trichlorobenzene	180	11.494	11.494	(1.183)	75809	2.00000	2.111
	82 Hexachloro 1,3-Butadiene	225	11.488	11.488	(1.183)	30168	2.00000	2.184
	84 Naphthalene	128	11.799	11.799	(1.215)	154745	2.00000	2.091
	85 1,2,3-Trichlorobenzene	180	11.975	11.974	(1.233)	61632	2.00000	2.159

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt5.i
Lab File ID: 03091017.d
Lab Smp Id: 2 0309
Analysis Type: VOA
Quant Type: ISTD
Operator: PC
Method File: /chem1/nt5.i/09MAR10.b/8260c030910L.m
Misc Info: 10-

Calibration Date: 09-MAR-2010
Calibration Time: 14:12
Client Smp ID: 2 ppb
Level: LOW
Sample Type: WATER

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
32 Pentafluorobenzen	526014	263007	1052028	526014	0.00
35 1,4-Difluorobenze	985179	492590	1970358	985179	0.00
52 d5-Chlorobenzene	845025	422512	1690050	845025	0.00
75 d4-1,4-Dichlorobe	383446	191723	766892	383446	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
32 Pentafluorobenzen	4.74	4.24	5.24	4.74	0.00
35 1,4-Difluorobenze	5.19	4.69	5.69	5.19	0.00
52 d5-Chlorobenzene	7.65	7.15	8.15	7.65	0.00
75 d4-1,4-Dichlorobe	9.71	9.21	10.21	9.71	0.00

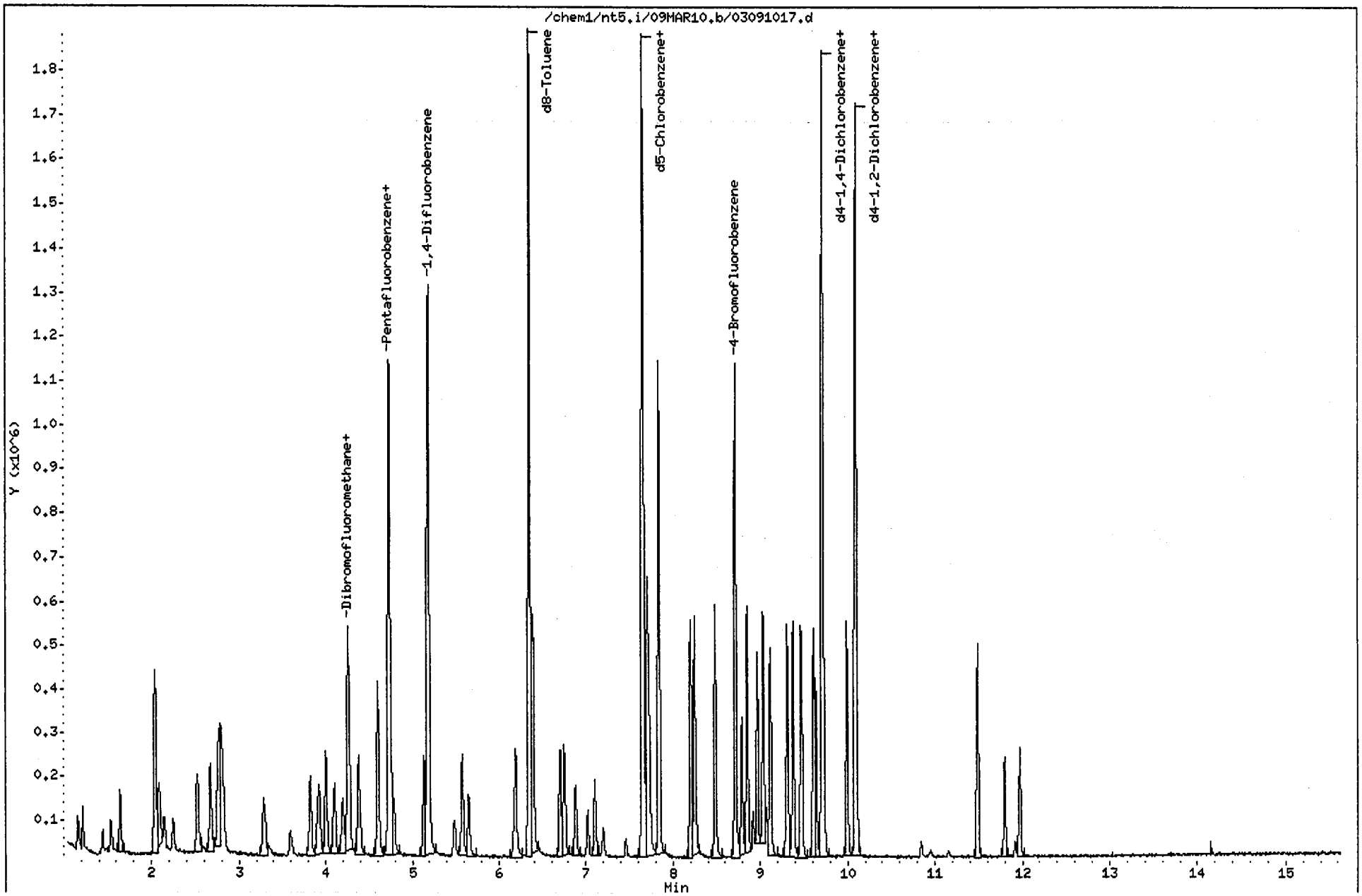
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem1/nt5.i/09MAR10.b/03091017.d
Date : 09-MAR-2010 16:45
Client ID: 2 ppb
Sample Info: 2 0309,10,10,0,

Instrument: nt5.i

Operator: PC
Column diameter: 0.18

Column phase: RTXVMS



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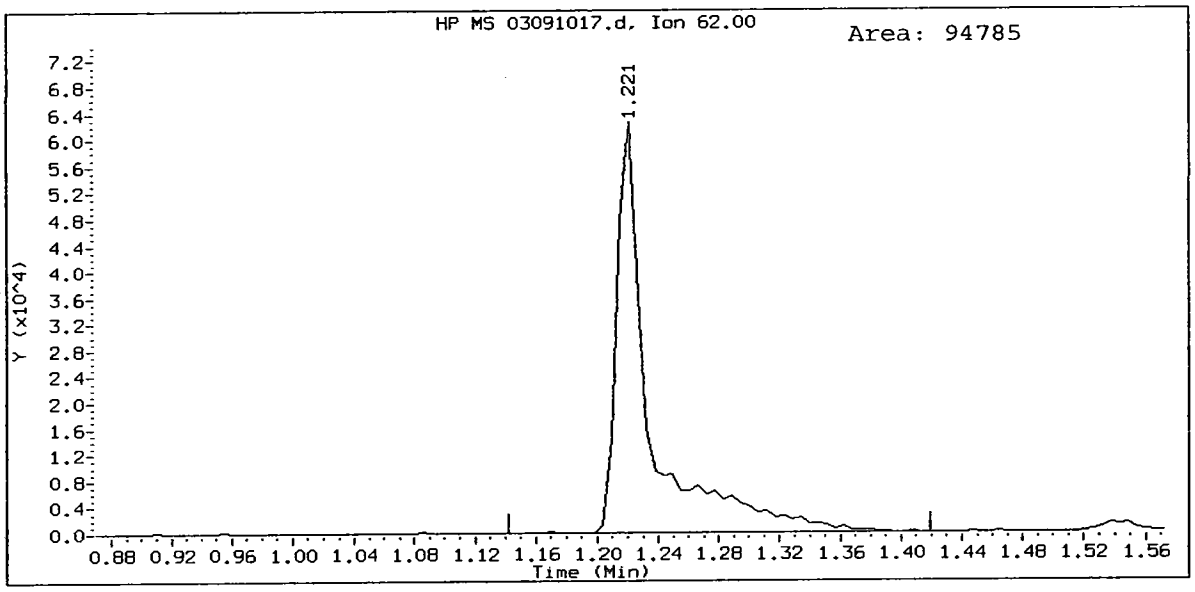
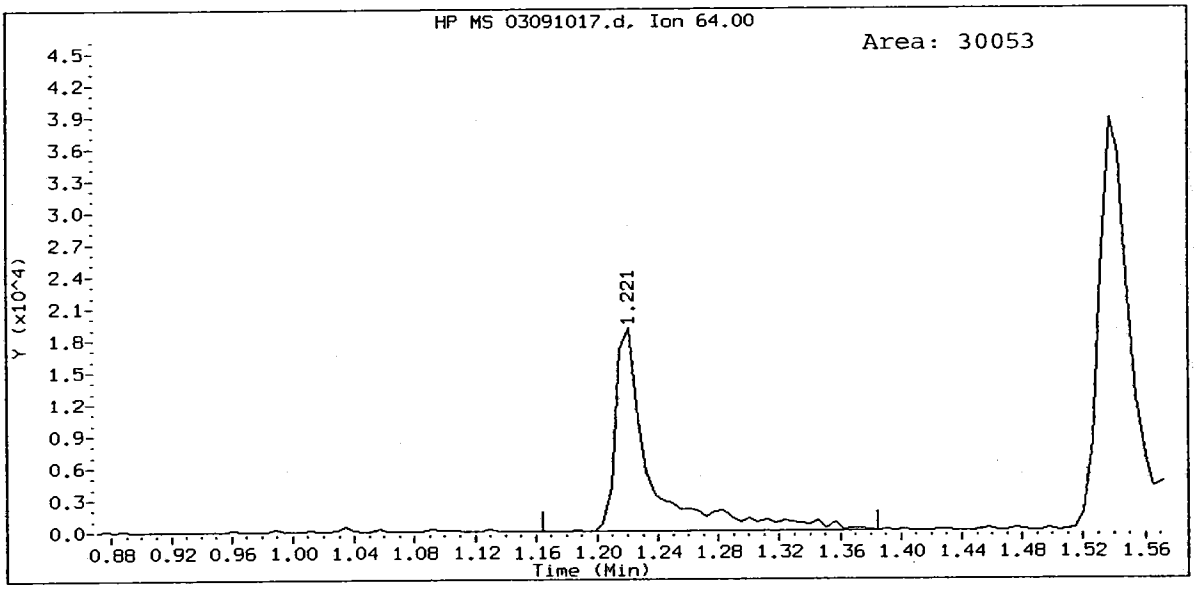
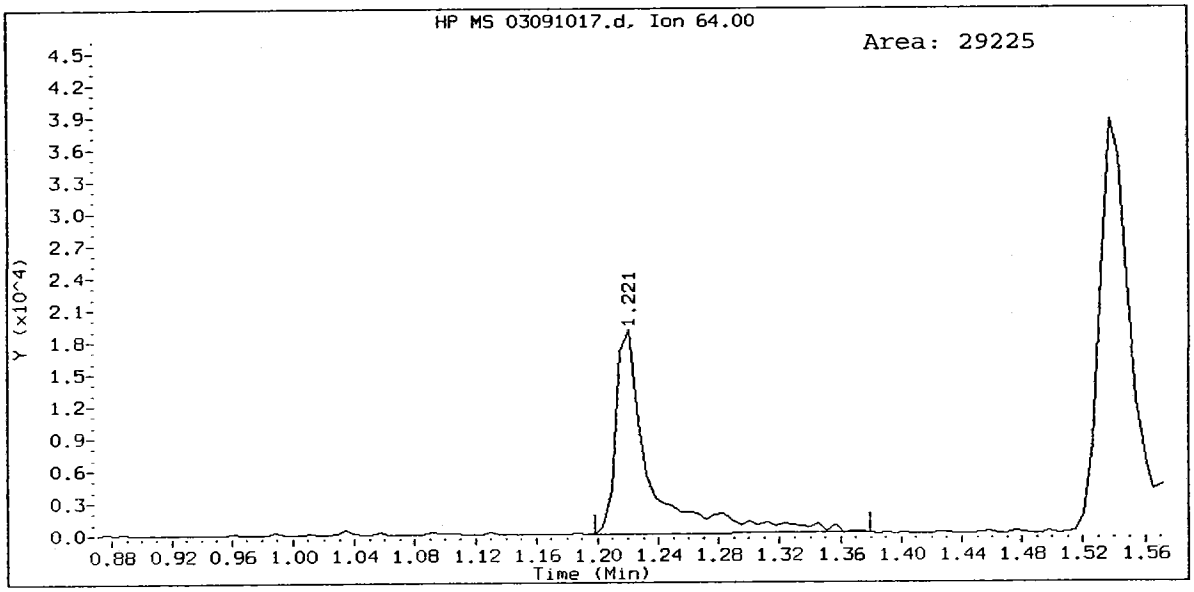
Vinyl Chloride Amount: 2.07







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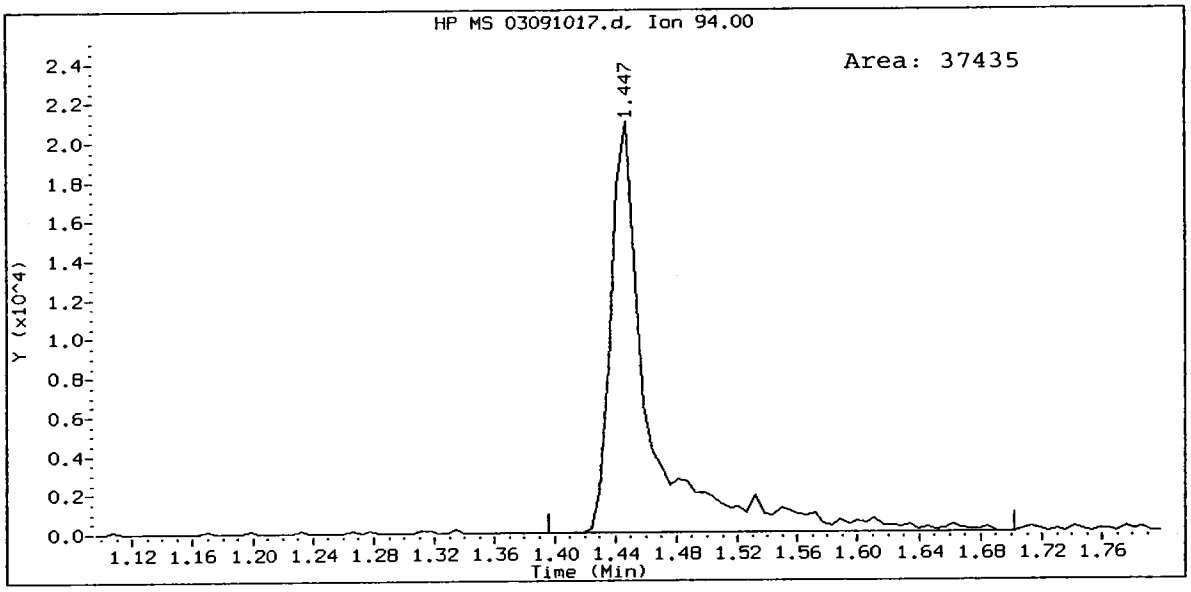
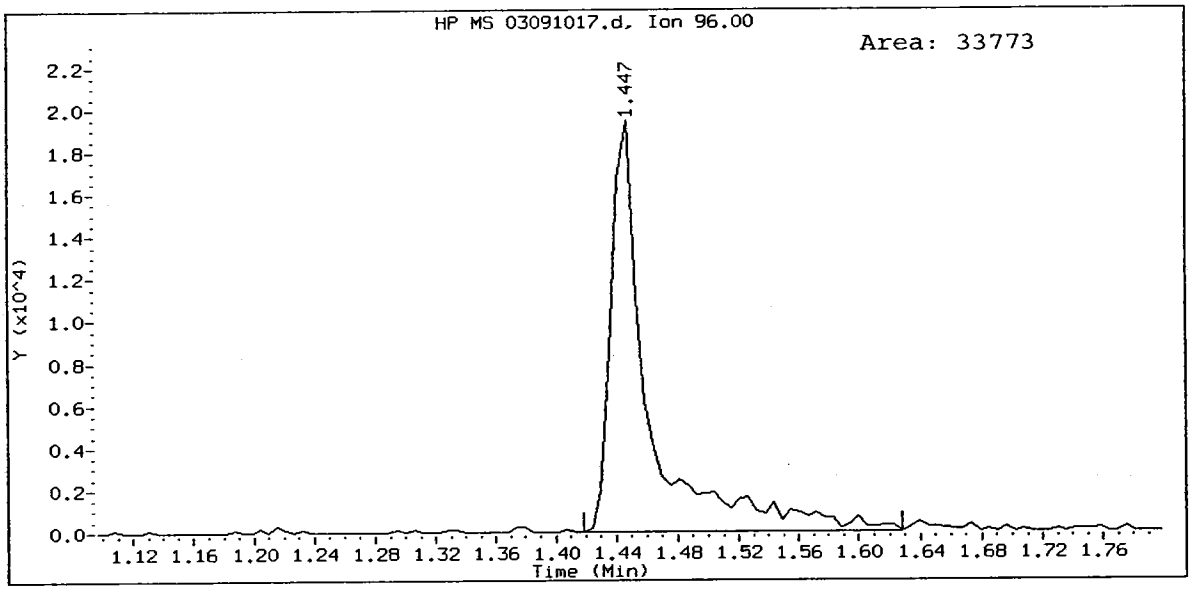
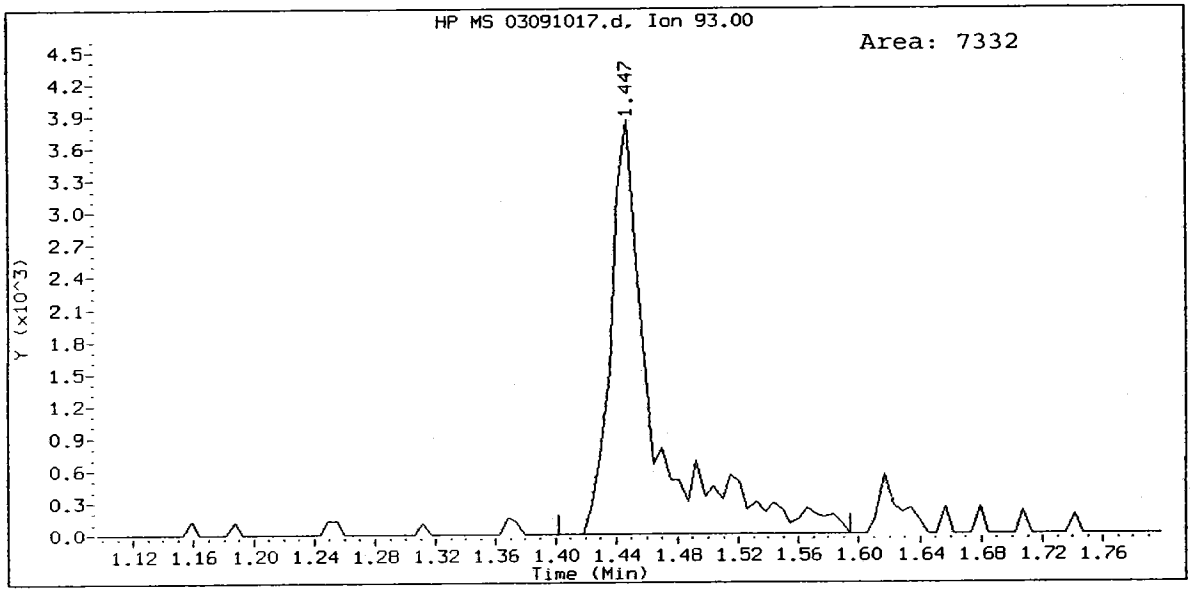
Bromomethane Amount: 1.57







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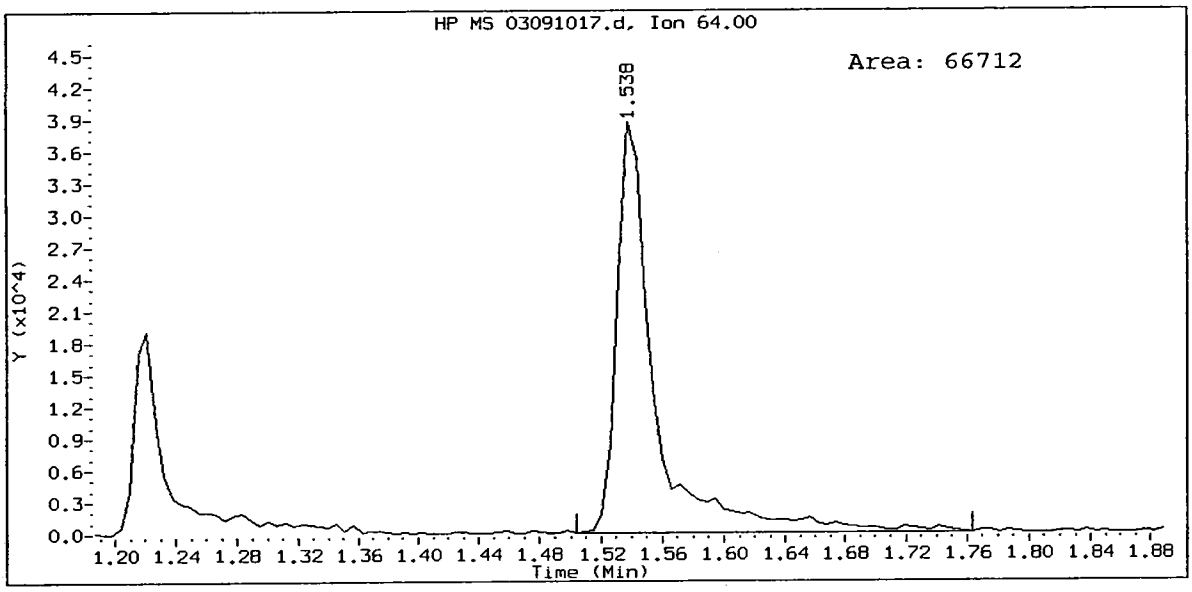
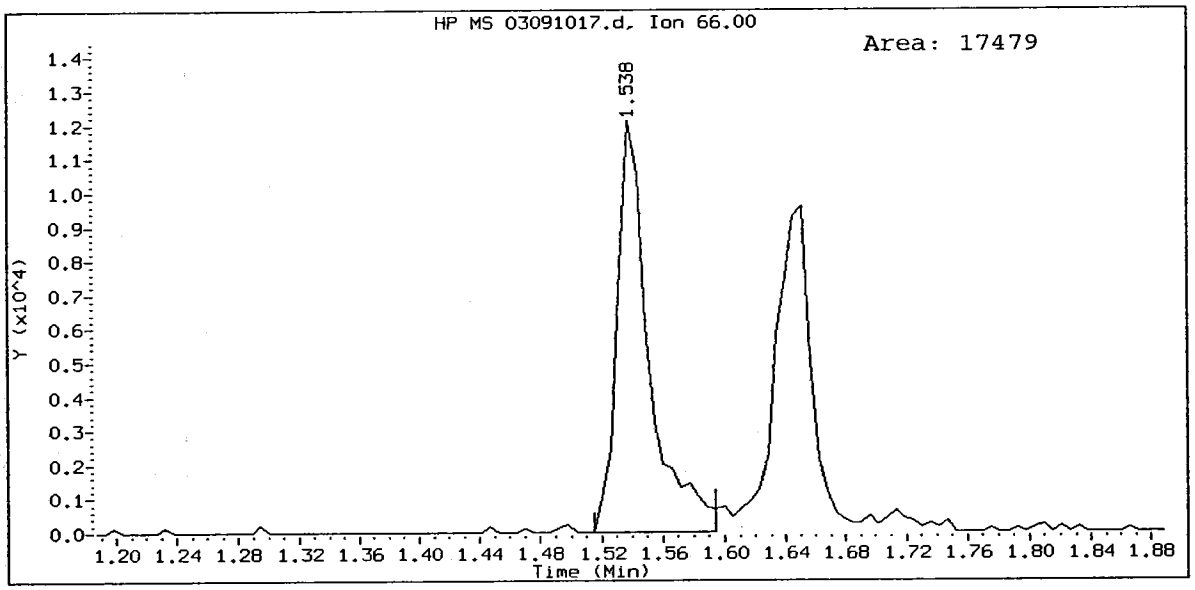
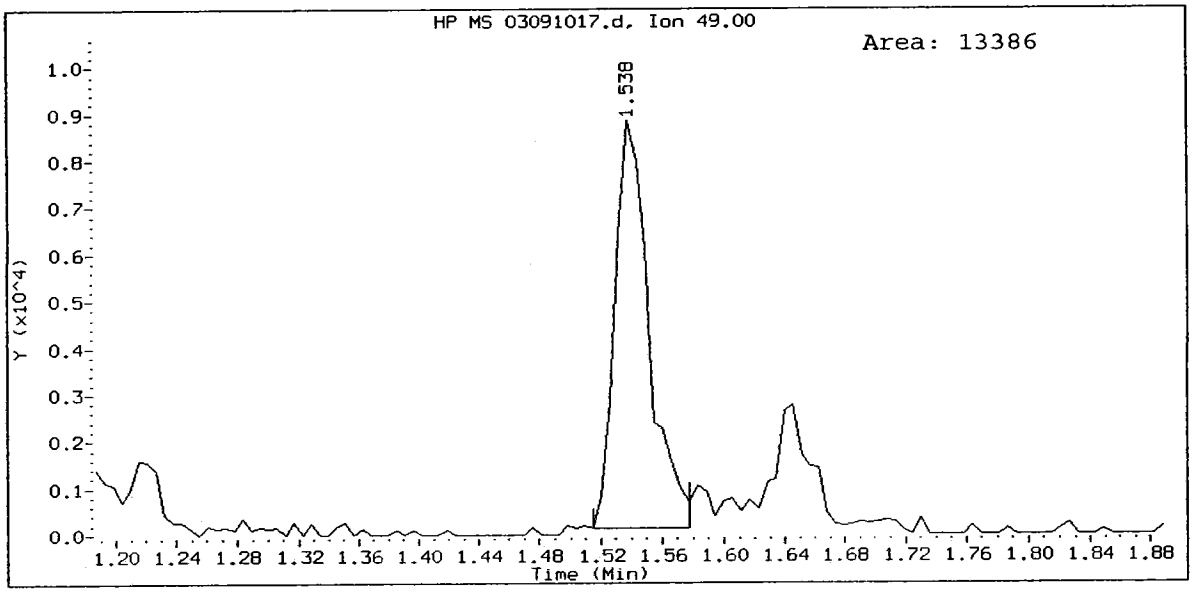
Chloroethane Amount: 2.27







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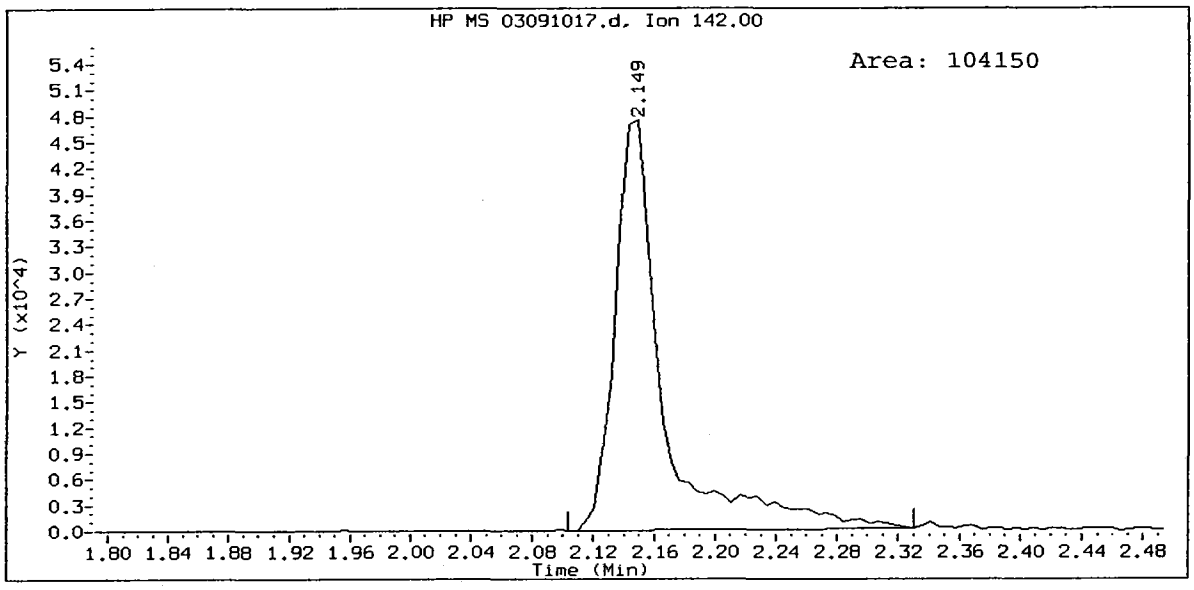
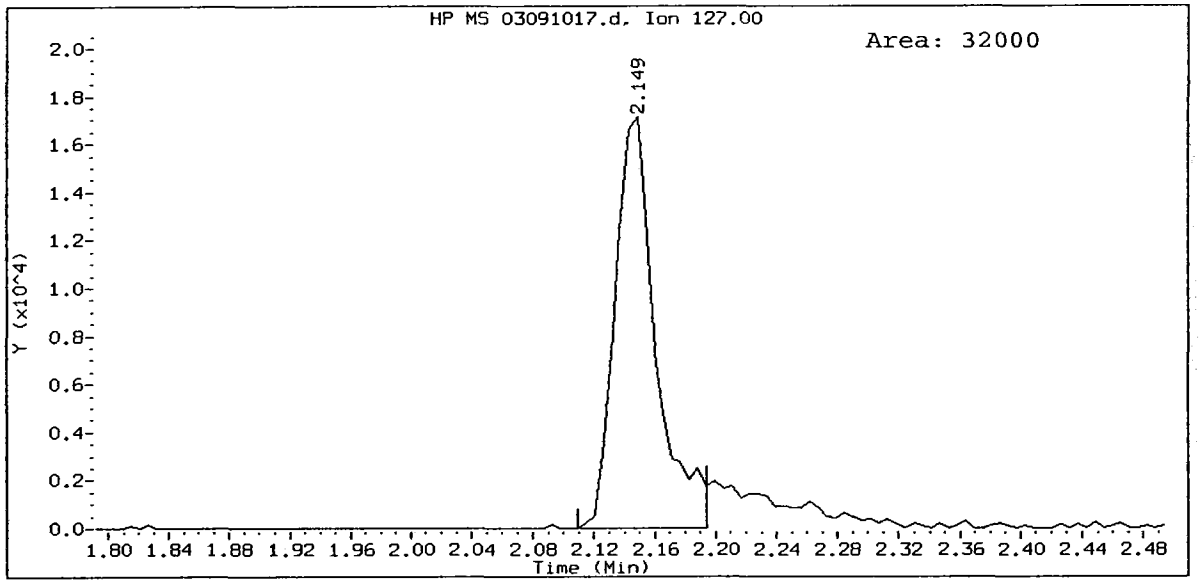
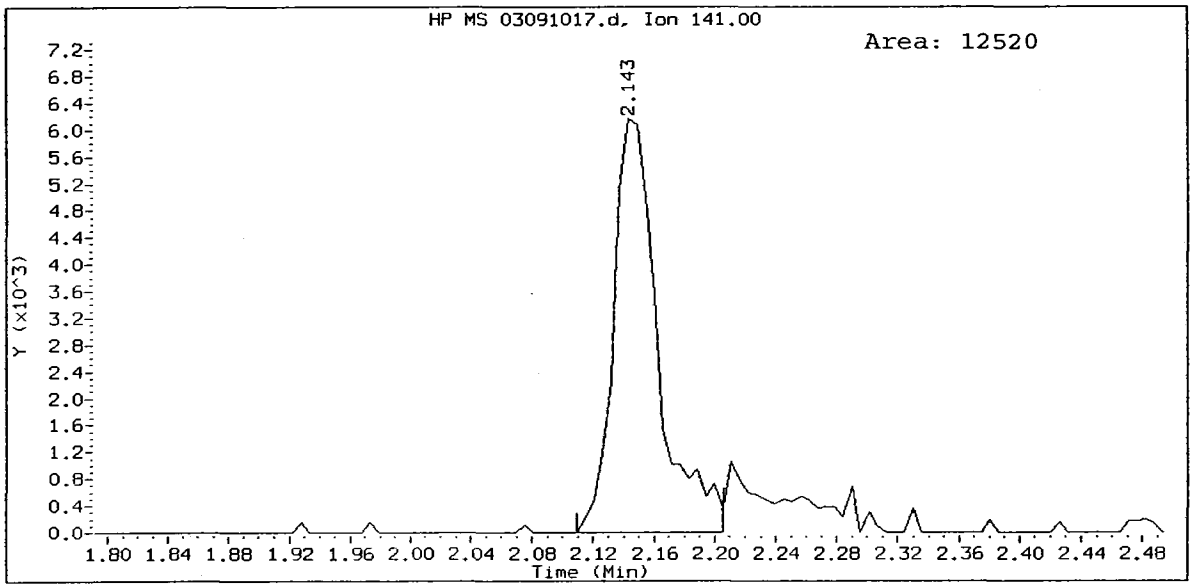
Iodomethane Amount: 2.46







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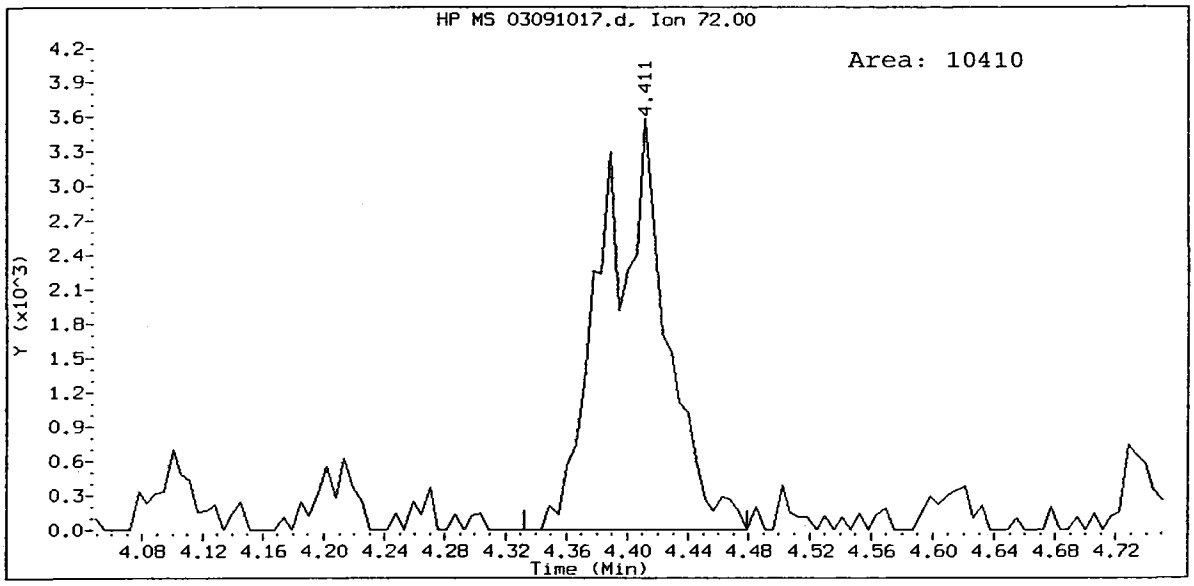
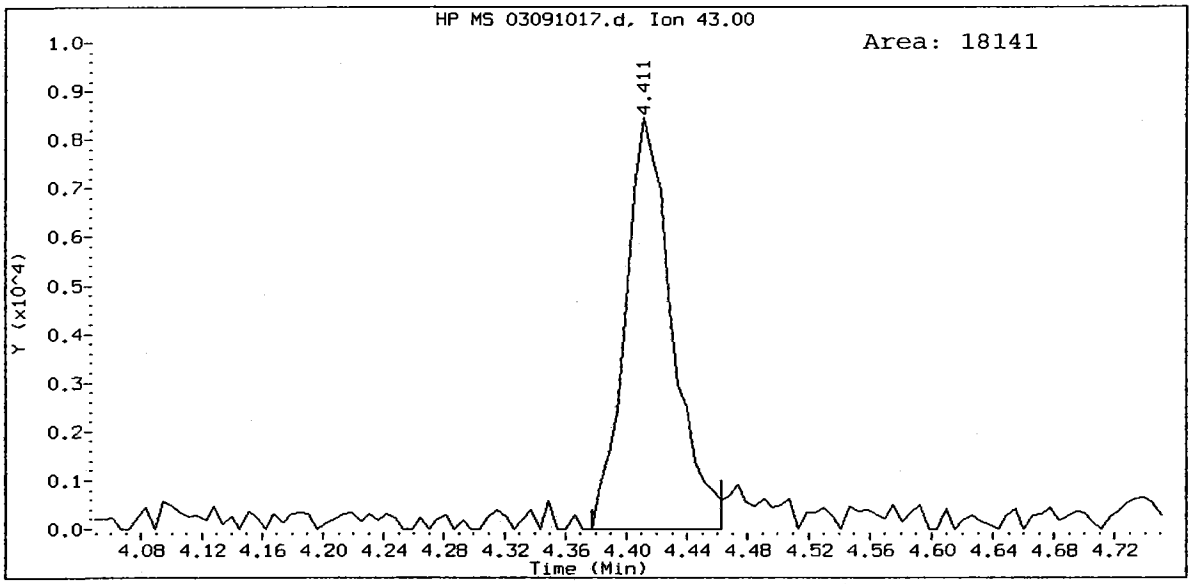
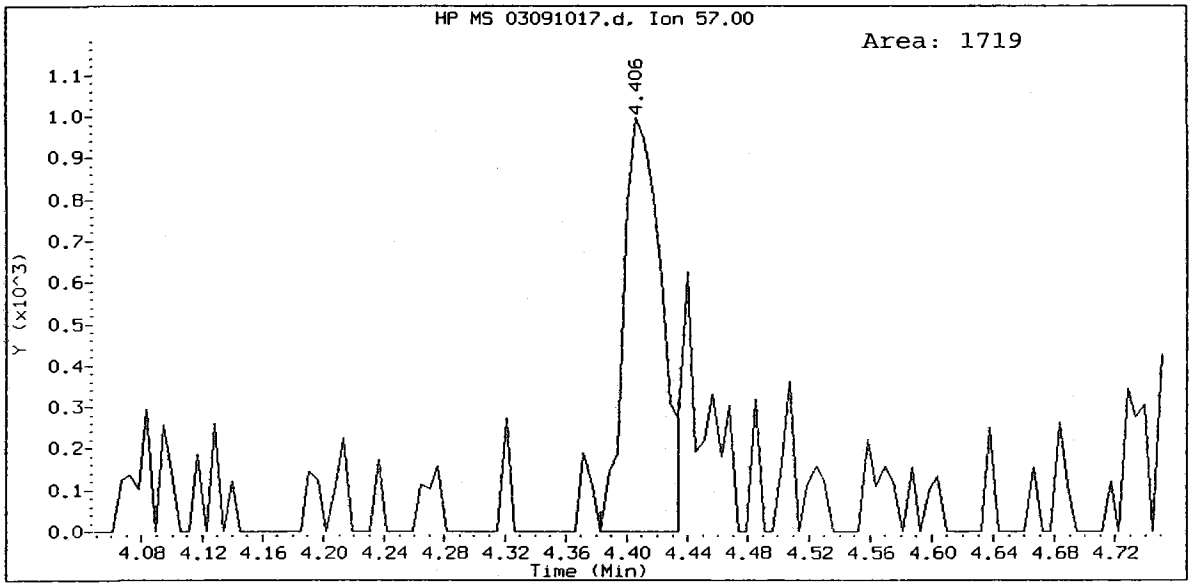
2-Butanone Amount: 2.31







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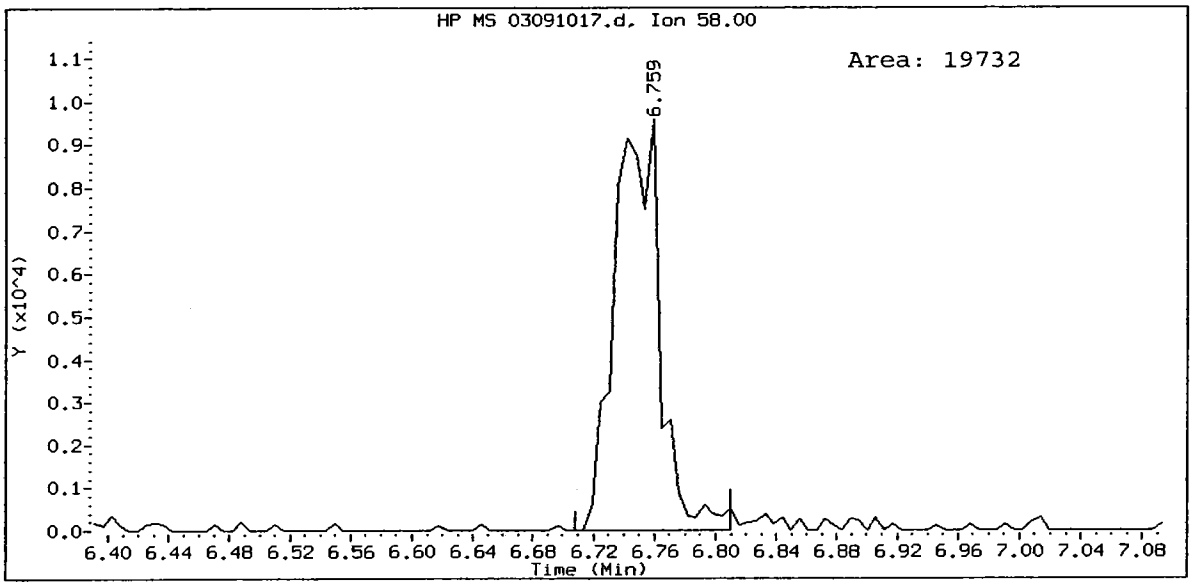
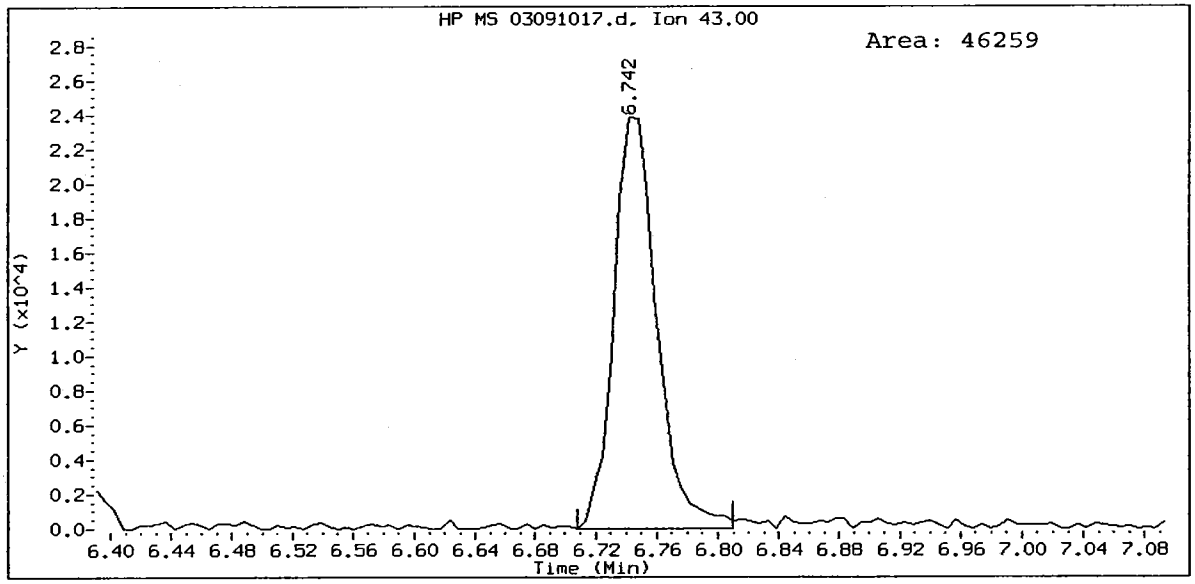
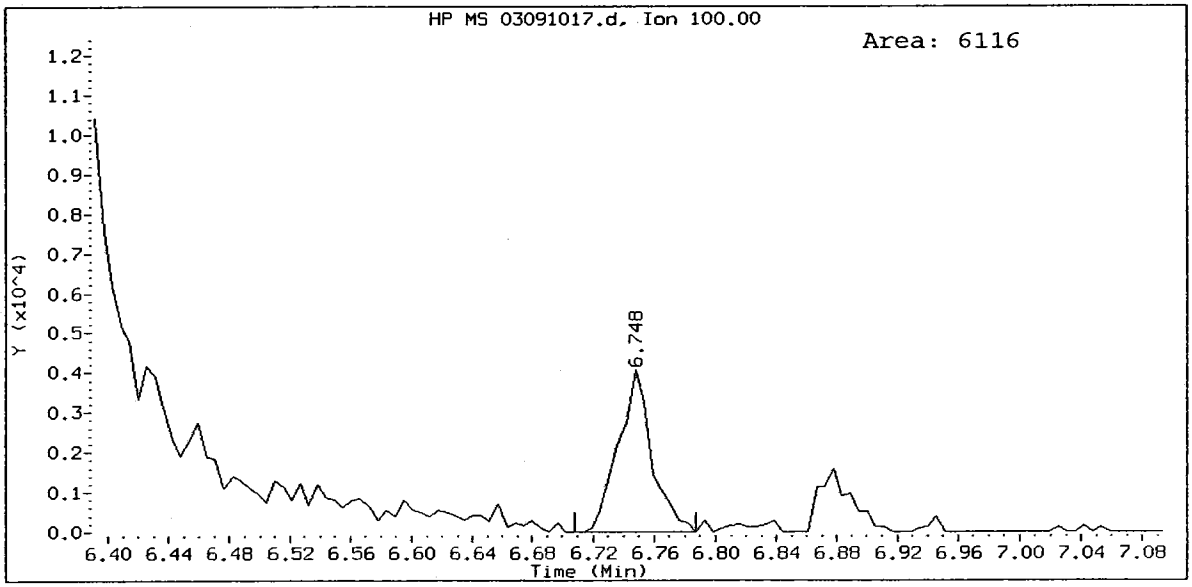
4-Methyl-2-Pentanone Amount: 2.24







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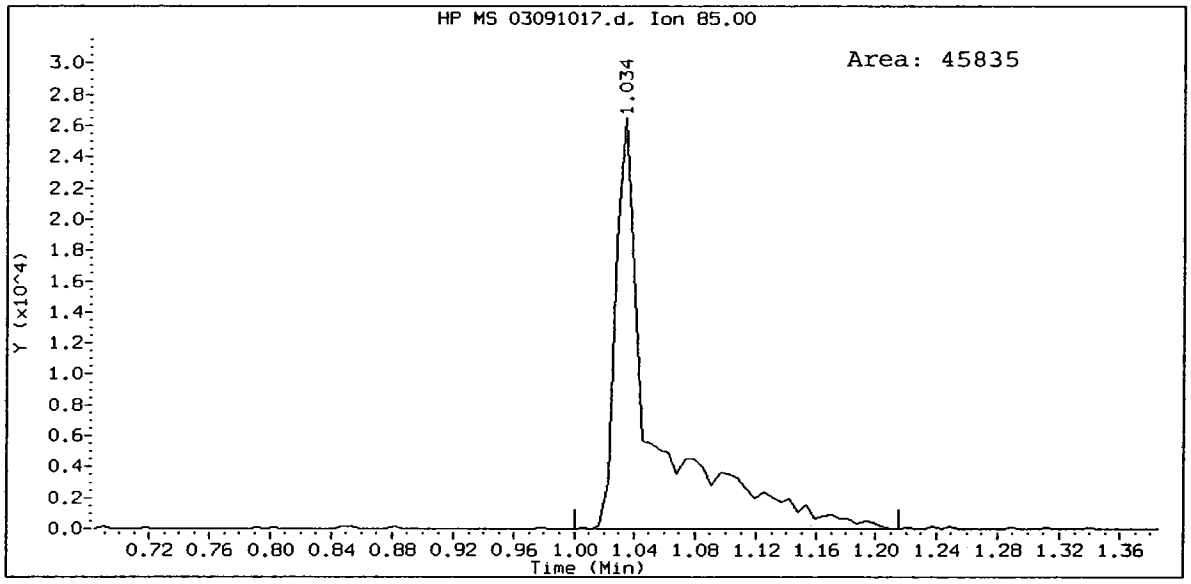
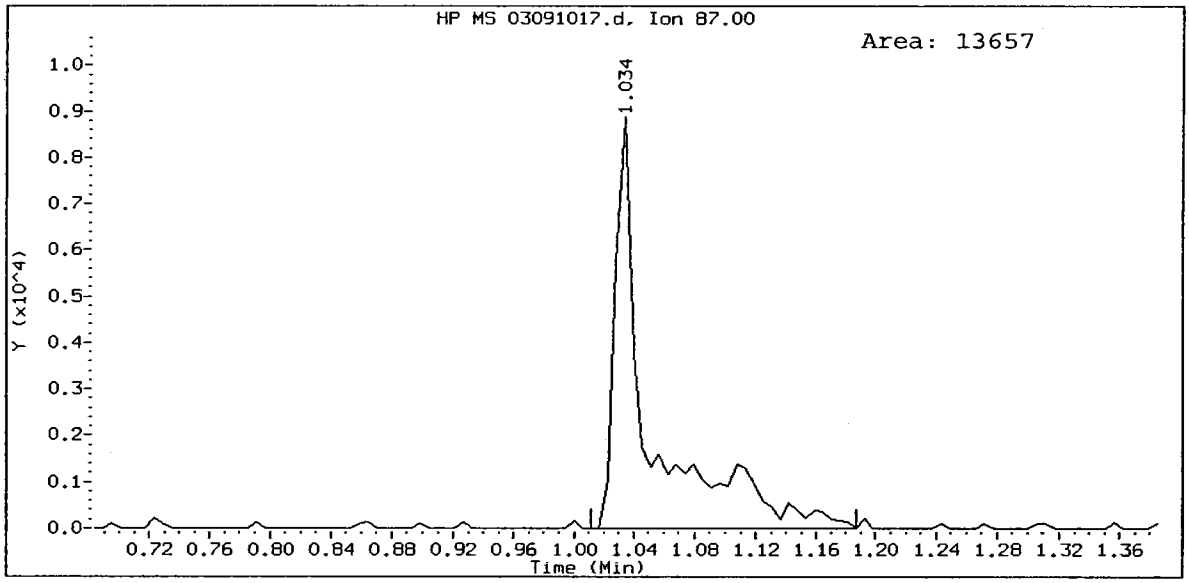
Dichlorodifluoromethane Amount: 2.19





PC 3/10/10

Analytical Resources, Inc.

SW8260C 10 ML

Data file : /chem1/nt5.i/09MAR10.b/03091018.d
Lab Smp Id: ICV 0309 Client Smp ID: ICV 10 PPB
Inj Date : 09-MAR-2010 17:11
Operator : PC Inst ID: nt5.i
Smp Info : ICV 0309,10,10,0,
Misc Info : 10-
Comment :
Method : /chem1/nt5.i/09MAR10.b/8260c030910L.m
Meth Date : 10-Mar-2010 09:57 paul Quant Type: ISTD
Cal Date : 09-MAR-2010 16:45 Cal File: 03091017.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	10.00000	Purge Volume (mL)
Sa	10.00000	Sample Amount (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
1 Dichlorodifluoromethane	85	1.034	1.034	(0.218)	259327	12.2917	12.292
2 Chloromethane	50	1.164	1.164	(0.246)	481017	11.4277	11.428
3 Vinyl Chloride	62	1.221	1.221	(0.258)	521530	11.2551	11.255
4 Bromomethane	94	1.447	1.447	(0.305)	229760	9.51027	9.510
5 Chloroethane	64	1.543	1.537	(0.326)	291927	9.82503	9.825
6 Trichlorofluoromethane	101	1.651	1.645	(0.348)	482777	10.6230	10.623
12 Acrolein	56	2.324	2.318	(0.490)	258348	165.753	165.75(QR)
9 112Trichloro122Trifluoroethane	101	2.092	2.086	(0.441)	385227	10.7228	10.723
14 Acetone	43	2.584	2.584	(0.545)	298981	55.5817	55.582
7 1,1-Dichloroethene	96	2.041	2.041	(0.431)	346470	10.1899	10.190
11 Bromoethane	108	2.250	2.250	(0.475)	274290	10.9717	10.972
10 Iodomethane	142	2.148	2.143	(0.453)	532599	12.4406	12.441
13 Methylene Chloride	84	2.528	2.527	(0.533)	397103	10.6500	10.650
18 Acrylonitrile	53	3.348	3.348	(0.706)	85547	11.3940	11.394
16 Methyl tert butyl ether	73	2.805	2.799	(0.592)	907299	10.3985	10.399(Q)
8 Carbon Disulfide	76	2.047	2.047	(0.432)	1613405	12.3045	12.304

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
	15 Trans-1,2-Dichloroethene	96	2.675	2.675	(0.564)	391497	10.3293	10.329
	19 Vinyl Acetate	43	3.597	3.591	(0.759)	629433	12.9378	12.938
	17 1,1-Dichloroethane	63	3.286	3.285	(0.693)	801742	10.5855	10.586
	29 2-Butanone	72	4.406	4.400	(0.930)	142499	31.3570	31.357(QR)
	21 2,2-Dichloropropane	77	3.919	3.919	(0.827)	583497	9.75065	9.751
	20 Cis-1,2-Dichloroethene	96	3.823	3.823	(0.807)	416246	10.5052	10.505
*	32 Pentafluorobenzene	168	4.739	4.739	(1.000)	531375	10.0000	
	23 Chloroform	83	4.100	4.100	(0.865)	683073	10.4632	10.463
	22 Bromochloromethane	128	4.004	4.004	(0.845)	155286	10.3232	10.323
$	25 Dibromofluoromethane	111	4.264	4.264	(0.900)	250902	10.1104	10.110
	26 1,1,1-Trichloroethane	97	4.264	4.264	(0.900)	583982	10.4069	10.407
	28 1,1-Dichloropropene	75	4.389	4.383	(0.846)	595713	10.4949	10.495
	24 Carbon Tetrachloride	117	4.196	4.202	(0.809)	472774	10.4765	10.476
$	31 d4-1,2-Dichloroethane	65	4.728	4.728	(0.998)	282023	9.98823	9.988
	33 1,2-Dichloroethane	62	4.790	4.790	(0.924)	448451	10.6153	10.615
	30 Benzene	78	4.604	4.604	(0.888)	1815097	10.8229	10.823
*	35 1,4-Difluorobenzene	114	5.186	5.186	(1.000)	995676	10.0000	
	34 Trichloroethene	130	5.135	5.135	(0.990)	372279	10.1633	10.163
	38 1,2-Dichloropropane	63	5.577	5.577	(1.075)	453259	10.4019	10.402
	39 Bromodichloromethane	83	5.650	5.650	(1.089)	498879	10.9092	10.909
	37 Dibromomethane	93	5.486	5.486	(1.058)	166564	10.4366	10.437
	40 2-Chloroethyl Vinyl Ether	63	6.176	6.170	(1.191)	153310	8.63068	8.631
	45 4-Methyl-2-Pentanone	58	6.742	6.742	(1.300)	482856	54.3004	54.300(Q)
	41 Cis 1,3-dichloropropene	75	6.193	6.193	(1.194)	663918	10.6554	10.655
$	42 d8-Toluene	98	6.346	6.346	(1.224)	1158835	10.0098	10.010
	43 Toluene	92	6.391	6.391	(1.232)	1095534	10.6649	10.665
	46 Trans 1,3-Dichloropropene	75	6.753	6.753	(1.302)	535441	10.8066	10.807(Q)
	51 2-Hexanone	43	7.455	7.455	(0.974)	819733	56.6010	56.601
	47 1,1,2-Trichloroethane	97	6.883	6.883	(1.327)	257125	10.6096	10.610
	49 1,3-Dichloropropane	76	7.104	7.104	(0.928)	506382	10.7306	10.731
	44 Tetrachloroethene	166	6.708	6.708	(0.877)	333049	10.2707	10.271
	48 Chlorodibromomethane	129	7.019	7.019	(0.917)	266973	10.4905	10.491
	50 1,2-Dibromoethane	107	7.200	7.200	(1.388)	233055	10.7097	10.710
*	52 d5-Chlorobenzene	117	7.653	7.647	(1.000)	859617	10.0000	
	53 Chlorobenzene	112	7.664	7.664	(1.001)	1087349	10.9647	10.965
	54 Ethyl Benzene	91	7.709	7.709	(1.007)	2218021	11.9526	11.953
	55 1,1,1,2-Tetrachloroethane	131	7.726	7.726	(1.010)	340760	10.7036	10.704
	56 m,p-xylene	106	7.839	7.839	(1.024)	1527345	22.2743	22.274
	57 o-Xylene	106	8.201	8.201	(1.072)	741896	10.9128	10.913
	58 Styrene	104	8.252	8.252	(1.078)	1233453	11.3681	11.368
	60 Isopropyl Benzene	105	8.484	8.484	(0.874)	1790762	10.3322	10.332
	59 Bromoform	173	8.247	8.247	(0.849)	125999	10.5901	10.590
	64 1,1,2,2-Tetrachloroethane	83	8.920	8.920	(0.918)	283867	10.5327	10.533
$	61 4-Bromofluorobenzene	95	8.716	8.710	(1.139)	418440	10.2279	10.228
	66 1,2,3-Trichloropropane	110	9.022	9.016	(0.929)	68138	10.2938	10.294
	68 Trans-1,4-Dichloro 2-Butene	53	9.073	9.072	(0.934)	95525	11.5714	11.571
	63 N-Propyl Benzene	91	8.852	8.852	(0.911)	2292593	11.0405	11.041

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
	62 Bromobenzene	156	8.790	8.790	(0.905)	357600	10.4320	10.432
	67 1,3,5-Trimethyl Benzene	105	9.039	9.039	(0.931)	1531322	10.9040	10.904
	65 2-Chloro Toluene	91	8.965	8.965	(0.923)	1383081	11.0950	11.095
	69 4-Chloro Toluene	91	9.118	9.118	(0.939)	1391082	10.8879	10.888
	70 T-Butyl Benzene	119	9.310	9.310	(0.959)	1293824	10.9720	10.972
	71 1,2,4-Trimethylbenzene	105	9.378	9.378	(0.966)	1525863	10.8388	10.839
	72 S-Butyl Benzene	105	9.474	9.468	(0.976)	1954671	10.8019	10.802
	73 4-Isopropyl Toluene	119	9.610	9.610	(0.990)	1493681	10.6388	10.639
	74 1,3-Dichlorobenzene	146	9.638	9.638	(0.992)	731060	10.4819	10.482
*	75 d4-1,4-Dichlorobenzene	152	9.712	9.712	(1.000)	406093	10.0000	
	76 1,4-Dichlorobenzene	146	9.723	9.723	(1.001)	721386	10.0841	10.084(Q)
	77 N-Butyl Benzene	91	9.995	9.995	(1.029)	1426619	10.2038	10.204
$	78 d4-1,2-Dichlorobenzene	152	10.091	10.091	(1.039)	353511	9.88724	9.887
	79 1,2-Dichlorobenzene	146	10.102	10.102	(1.040)	647186	10.2311	10.231
	81 1,2-Dibromo 3-Chloropropane	75	10.849	10.843	(1.117)	45094	9.95550	9.956
	83 1,2,4-Trichlorobenzene	180	11.494	11.494	(1.183)	373341	9.81558	9.816
	82 Hexachloro 1,3-Butadiene	225	11.488	11.488	(1.183)	135844	9.28636	9.286
	84 Naphthalene	128	11.799	11.799	(1.215)	827810	10.5597	10.560
	85 1,2,3-Trichlorobenzene	180	11.975	11.974	(1.233)	319339	10.5624	10.562

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt5.i
Lab File ID: 03091018.d
Lab Smp Id: ICV 0309
Analysis Type: VOA
Quant Type: ISTD
Operator: PC
Method File: /chem1/nt5.i/09MAR10.b/8260c030910L.m
Misc Info: 10-

Calibration Date: 09-MAR-2010
Calibration Time: 14:12
Client Smp ID: ICV 10 PPB
Level: LOW
Sample Type: WATER

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
32 Pentafluorobenzen	526014	263007	1052028	531375	1.02
35 1,4-Difluorobenze	985179	492590	1970358	995676	1.07
52 d5-Chlorobenzene	845025	422512	1690050	859617	1.73
75 d4-1,4-Dichlorobe	383446	191723	766892	406093	5.91

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
32 Pentafluorobenzen	4.74	4.24	5.24	4.74	0.00
35 1,4-Difluorobenze	5.19	4.69	5.69	5.19	0.00
52 d5-Chlorobenzene	7.65	7.15	8.15	7.65	0.07
75 d4-1,4-Dichlorobe	9.71	9.21	10.21	9.71	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Client SDG: 09MAR10
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id: ICV 0309 Client Smp ID: ICV 10 PPB
Level: LOW Operator: PC
Data Type: MS DATA SampleType: LCS
SpikeList File: icv.spk Quant Type: ISTD
Sublist File: voa.sub
Method File: /chem1/nt5.i/09MAR10.b/8260c030910L.m
Misc Info: 10-

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1 Dichlorodifluorome	10.000	12.292	122.92	70-130
16 Methyl tert butyl	10.000	10.399	103.99	70-130
2 Chloromethane	10.000	11.428	114.28	70-130
3 Vinyl Chloride	10.000	11.255	112.55	70-130
4 Bromomethane	10.000	9.510	95.10	70-130
5 Chloroethane	10.000	9.825	98.25	70-130
6 Trichlorofluoromet	10.000	10.623	106.23	70-130
12 Acrolein	50.000	165.75	331.51*	70-130
9 112Trichloro122Tri	10.000	10.723	107.23	70-130
14 Acetone	50.000	55.582	111.16	70-130
7 1,1-Dichloroethene	10.000	10.190	101.90	70-130
11 Bromoethane	10.000	10.972	109.72	70-130
10 Iodomethane	10.000	12.441	124.41	70-130
13 Methylene Chloride	10.000	10.650	106.50	70-130
8 Carbon Disulfide	10.000	12.304	123.04	70-130
18 Acrylonitrile	10.000	11.394	113.94	70-130
15 Trans-1,2-Dichloro	10.000	10.329	103.29	70-130
19 Vinyl Acetate	10.000	12.938	129.38	70-130
17 1,1-Dichloroethane	10.000	10.586	105.86	70-130
29 2-Butanone	50.000	31.357	62.71*	70-130
21 2,2-Dichloropropan	10.000	9.751	97.51	70-130
20 Cis-1,2-Dichloroet	10.000	10.505	105.05	70-130
23 Chloroform	10.000	10.463	104.63	70-130
22 Bromochloromethane	10.000	10.323	103.23	70-130
26 1,1,1-Trichloroeth	10.000	10.407	104.07	70-130
28 1,1-Dichloropropen	10.000	10.495	104.95	70-130
24 Carbon Tetrachlori	10.000	10.476	104.76	70-130
33 1,2-Dichloroethane	10.000	10.615	106.15	70-130
30 Benzene	10.000	10.823	108.23	70-130
34 Trichloroethene	10.000	10.163	101.63	70-130
38 1,2-Dichloropropan	10.000	10.402	104.02	70-130
39 Bromodichlorometha	10.000	10.909	109.09	70-130
37 Dibromomethane	10.000	10.437	104.37	70-130

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
40 2-Chloroethyl Viny	10.000	8.631	86.31	70-130
45 4-Methyl-2-Pentano	50.000	54.300	108.60	70-130
41 Cis 1,3-dichloropr	10.000	10.655	106.55	70-130
43 Toluene	10.000	10.665	106.65	70-130
46 Trans 1,3-Dichloro	10.000	10.807	108.07	70-130
51 2-Hexanone	50.000	56.601	113.20	70-130
47 1,1,2-Trichloroeth	10.000	10.610	106.10	70-130
49 1,3-Dichloropropan	10.000	10.731	107.31	70-130
44 Tetrachloroethene	10.000	10.271	102.71	70-130
48 Chlorodibromometha	10.000	10.491	104.91	70-130
50 1,2-Dibromoethane	10.000	10.710	107.10	70-130
53 Chlorobenzene	10.000	10.965	109.65	70-130
55 1,1,1,2-Tetrachlor	10.000	10.704	107.04	70-130
54 Ethyl Benzene	10.000	11.953	119.53	70-130
56 m,p-xylene	20.000	22.274	111.37	70-130
57 o-Xylene	10.000	10.913	109.13	70-130
58 Styrene	10.000	11.368	113.68	70-130
60 Isopropyl Benzene	10.000	10.332	103.32	70-130
59 Bromoform	10.000	10.590	105.90	70-130
64 1,1,2,2-Tetrachlor	10.000	10.533	105.33	70-130
66 1,2,3-Trichloropro	10.000	10.294	102.94	70-130
68 Trans-1,4-Dichloro	10.000	11.571	115.71	70-130
63 N-Propyl Benzene	10.000	11.041	110.41	70-130
62 Bromobenzene	10.000	10.432	104.32	70-130
67 1,3,5-Trimethyl Be	10.000	10.904	109.04	70-130
65 2-Chloro Toluene	10.000	11.095	110.95	70-130
69 4-Chloro Toluene	10.000	10.888	108.88	70-130
70 T-Butyl Benzene	10.000	10.972	109.72	70-130
71 1,2,4-Trimethylben	10.000	10.839	108.39	70-130
72 S-Butyl Benzene	10.000	10.802	108.02	70-130
73 4-Isopropyl Toluen	10.000	10.639	106.39	70-130
74 1,3-Dichlorobenzen	10.000	10.482	104.82	70-130
76 1,4-Dichlorobenzen	10.000	10.084	100.84	70-130
77 N-Butyl Benzene	10.000	10.204	102.04	70-130
79 1,2-Dichlorobenzen	10.000	10.231	102.31	70-130
81 1,2-Dibromo 3-Chlo	10.000	9.956	99.56	70-130
83 1,2,4-Trichloroben	10.000	9.816	98.16	70-130
82 Hexachloro 1,3-But	10.000	9.286	92.86	70-130
84 Naphthalene	10.000	10.560	105.60	70-130
85 1,2,3-Trichloroben	10.000	10.562	105.62	70-130

SURROGATE COMPOUND	AMOUNT ADDED ug/L	AMOUNT RECOVERED ug/L	% RECOVERED	LIMITS
$ 25 Dibromofluorometha	10.000	10.110	101.10	64-133

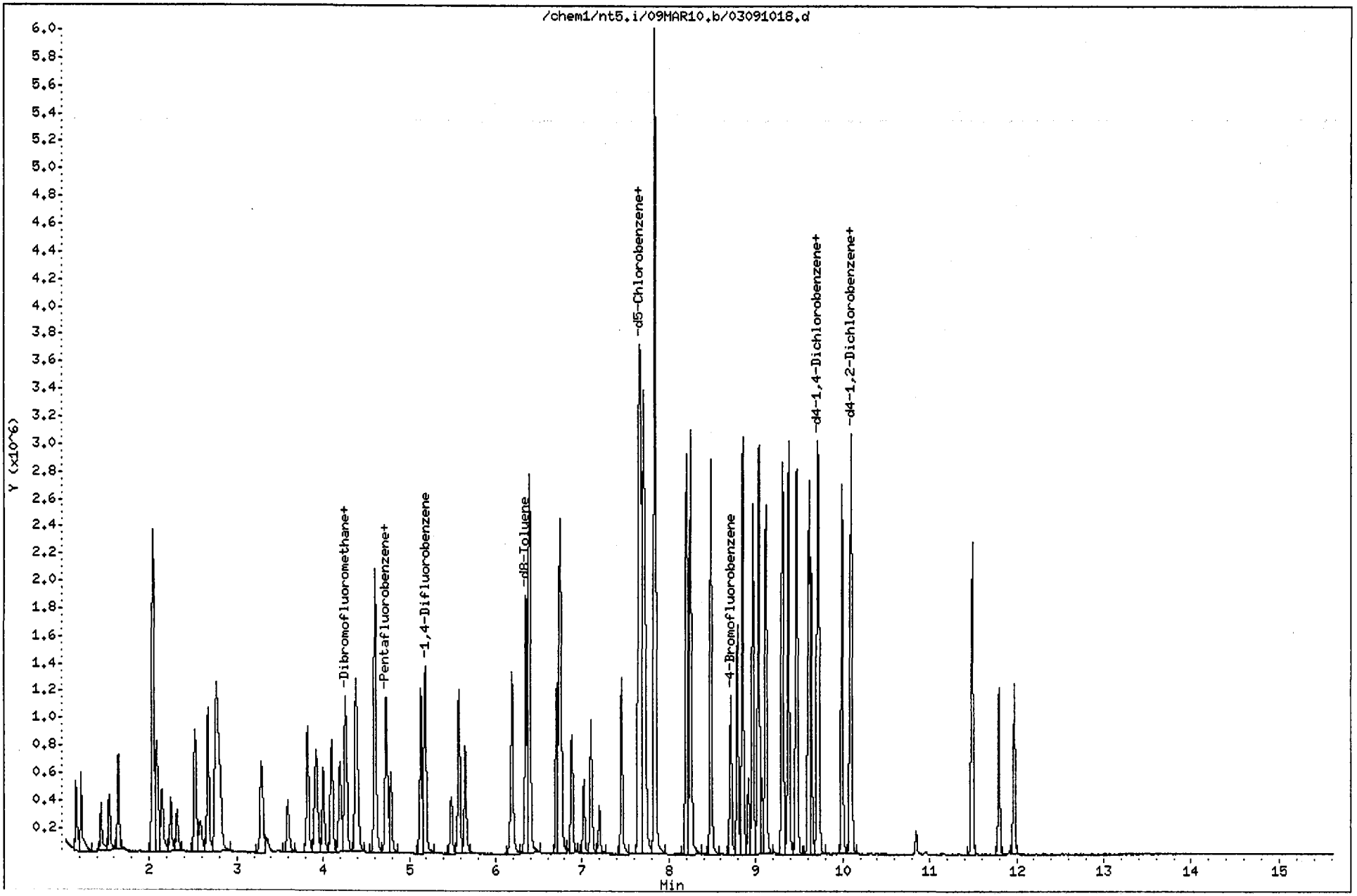
SURROGATE COMPOUND	AMOUNT ADDED ug/L	AMOUNT RECOVERED ug/L	% RECOVERED	LIMITS
$ 31 d4-1,2-Dichloroeth	10.000	9.988	99.88	80-132
$ 42 d8-Toluene	10.000	10.010	100.10	80-120
$ 61 4-Bromofluorobenze	10.000	10.228	102.28	80-120
$ 78 d4-1,2-Dichloroben	10.000	9.887	98.87	80-120

Data File: /chem1/nt5.i/09MAR10.b/03091018.d
Date : 09-MAR-2010 17:11
Client ID: ICV 10 PPB
Sample Info: ICV 0309,10,10,0,

Instrument: nt5.i

Operator: PC
Column diameter: 0.18

Column phase: RTXVMS



5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: ANALYTICAL RESOURCES, INC Contract: FLOYD-SNIDER

Lab Code: ARI Case No.: LORA LAKES APARTMENTS SDG No.: QL85

Lab File ID: BFB0303 BFB Injection Date: 03/03/10

Instrument ID: NT10 BFB Injection Time: 1109

GC Column: RTX502.2 ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	19.7
75	30.0 - 66.0% of mass 95	52.3
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.7 (0.9)1
174	50.0 - 101.0% of mass 95	78.3
175	4.0 - 9.0% of mass 174	5.8 (7.4)1
176	93.0 - 101.0% of mass 174	76.4 (97.7)1
177	5.0 - 9.0% of mass 176	4.8 (6.3)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CC0303	CC0303	1000303	03/03/10	1236
02	LCS0303	LCS0303	LCS0303	03/03/10	1306
03	LCS0303	LCS0303	LCS0303A	03/03/10	1336
04	MB0303	MB0303	MB0303	03/03/10	1406
05	TB022610	QL85E	QL85E	03/03/10	1447
06	CB31A022610GRAB	QL85A	QL85A	03/03/10	1517
07	CB1022610GRAB	QL85C	QL85C	03/03/10	1819
08	CB102022610GRAB	QL85D	QL85D	03/03/10	1849
09	CB31A022610GRAB	QL85A	QL85AMS	03/03/10	1919
10	CB31A022610GRAB	QL85A	QL85AMSD	03/03/10	1948
11					
12					
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20					
21					
22					

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD-SNIDER

ARI Job No: QL85 Project: LORA LAKES APARTMENTS

Instrument ID: NT10 Cont. Calib. Date: 03/03/10

Init. Calib. Date: 02/22/10 Cont. Calib. Time: 1236

COMPOUND	CalAmt or ARF	CC Amt or RF	MIN RRF	CURVE TYPE	%D or Drift	
Chloromethane	0.375	0.384	0.100	AVRG	2.4	
Vinyl Chloride	0.446	0.535	0.010	AVRG	20.0	
Bromomethane	10.000	9.833	0.010	LINR	-1.7	
Chloroethane	0.350	0.394	0.010	AVRG	12.6	
Trichlorofluoromethane	0.627	0.748	0.010	AVRG	19.3	
Acrolein	0.028	0.010	0.010	AVRG	-64.3	<-
112Trichloro122Trifluoroetha	0.418	0.471	0.010	AVRG	12.7	
Acetone	0.046	0.058	0.010	AVRG	26.1	<-
1,1-Dichloroethene	0.498	0.571	0.010	AVRG	14.6	
Bromoethane	0.304	0.340	0.010	AVRG	11.8	
Iodomethane	0.672	0.606	0.010	AVRG	-9.8	
Methylene Chloride	0.415	0.466	0.010	AVRG	12.3	
Acrylonitrile	0.058	0.057	0.010	AVRG	-1.7	
Carbon Disulfide	1.630	1.718	0.010	AVRG	5.4	
Trans-1,2-Dichloroethene	0.523	0.585	0.010	AVRG	11.8	
Vinyl Acetate	0.463	0.365	0.010	AVRG	-21.2	<-
1,1-Dichloroethane	0.852	0.946	0.100	AVRG	11.0	
2-Butanone	0.030	0.060	0.010	AVRG	100.0	<-
2,2-Dichloropropane	0.339	0.362	0.010	AVRG	6.8	
Cis-1,2-Dichloroethene	0.583	0.605	0.010	AVRG	3.8	
Chloroform	0.907	0.977	0.010	AVRG	7.7	
Bromochloromethane	0.198	0.212	0.010	AVRG	7.1	
1,1,1-Trichloroethane	0.706	0.772	0.010	AVRG	9.3	
1,1-Dichloropropene	0.496	0.544	0.010	AVRG	9.7	
Carbon Tetrachloride	0.363	0.399	0.010	AVRG	9.9	
1,2-Dichloroethane	0.301	0.321	0.010	AVRG	6.6	
Benzene	1.402	1.529	0.010	AVRG	9.0	
Trichloroethene	0.376	0.436	0.010	AVRG	16.0	
1,2-Dichloropropane	0.304	0.322	0.010	AVRG	5.9	
Bromodichloromethane	0.384	0.416	0.010	AVRG	8.3	
Dibromomethane	0.121	0.128	0.010	AVRG	5.8	
2-Chloroethyl Vinyl Ether	0.072	0.096	0.010	AVRG	33.3	<-
4-Methyl-2-Pentanone	0.054	0.045	0.010	AVRG	-16.7	
Cis 1,3-dichloropropene	0.427	0.470	0.010	AVRG	10.1	
Toluene	0.957	1.032	0.010	AVRG	7.8	
Trans 1,3-Dichloropropene	0.314	0.336	0.010	AVRG	7.0	
2-Hexanone	0.087	0.081	0.010	AVRG	-6.9	

<- Exceeds QC limit of 20% D
* RF less than minimum RF

FORM VII VOA

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD-SNIDER

ARI Job No: QL85 Project: LORA LAKES APARTMENTS

Instrument ID: NT10 Cont. Calib. Date: 03/03/10

Init. Calib. Date: 02/22/10 Cont. Calib. Time: 1236

COMPOUND	CalAmt or ARF	CC Amt or RF	MIN RRF	CURVE TYPE	%D or Drift	
1,1,2-Trichloroethane	0.186	0.191	0.010	AVRG	2.7	
1,3-Dichloropropane	0.358	0.391	0.010	AVRG	9.2	
Tetrachloroethene	0.435	0.482	0.010	AVRG	10.8	
Chlorodibromomethane	0.240	0.269	0.010	AVRG	12.1	
1,2-Dibromoethane	0.166	0.172	0.010	AVRG	3.6	
Chlorobenzene	1.051	1.174	0.300	AVRG	11.7	
Ethyl Benzene	1.994	2.233	0.010	AVRG	12.0	
1,1,1,2-Tetrachloroethane	0.322	0.344	0.010	AVRG	6.8	
m,p-xylene	0.751	0.855	0.010	AVRG	13.8	
o-Xylene	0.681	0.766	0.010	AVRG	12.5	
Styrene	1.072	1.179	0.010	AVRG	10.0	
Bromoform	0.309	0.321	0.100	AVRG	3.9	
1,1,2,2-Tetrachloroethane	0.453	0.436	0.300	AVRG	-3.8	
1,2,3-Trichloropropane	0.137	0.136	0.010	AVRG	-0.7	
Trans-1,4-Dichloro 2-Butene	10.000	9.581	0.010	2ORDR	-4.2	
N-Propyl Benzene	6.028	6.422	0.010	AVRG	6.5	
Bromobenzene	1.011	1.018	0.010	AVRG	0.7	
Isopropyl Benzene	5.279	5.454	0.010	AVRG	3.3	
2-Chloro Toluene	3.786	3.956	0.010	AVRG	4.5	
4-Chloro Toluene	3.279	3.459	0.010	AVRG	5.5	
T-Butyl Benzene	3.296	3.442	0.010	AVRG	4.4	
1,3,5-Trimethyl Benzene	3.900	4.205	0.010	AVRG	7.8	
1,2,4-Trimethylbenzene	3.690	4.026	0.010	AVRG	9.1	
S-Butyl Benzene	4.845	5.202	0.010	AVRG	7.4	
4-Isopropyl Toluene	3.694	4.098	0.010	AVRG	10.9	
1,3-Dichlorobenzene	1.695	1.844	0.010	AVRG	8.8	
1,4-Dichlorobenzene	1.618	1.745	0.010	AVRG	7.8	
N-Butyl Benzene	3.157	3.591	0.010	AVRG	13.7	
1,2-Dichlorobenzene	1.275	1.328	0.010	AVRG	4.2	
1,2-Dibromo 3-Chloropropane	0.040	0.044	0.010	AVRG	10.0	
1,2,4-Trichlorobenzene	0.622	0.595	0.010	AVRG	-4.3	
Hexachloro 1,3-Butadiene	0.370	0.365	0.010	AVRG	-1.4	
Naphthalene	0.845	0.764	0.010	AVRG	-9.6	
1,2,3-Trichlorobenzene	0.421	0.410	0.010	AVRG	-2.6	
Dichlorodifluoromethane	0.251	0.393	0.010	AVRG	56.6	<-
Methyl tert butyl ether	0.732	0.795	0.010	AVRG	8.6	

<- Exceeds QC limit of 20% D

* RF less than minimum RF

FORM VII VOA

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD-SNIDER

ARI Job No: QL85 Project: LORA LAKES APARTMENTS

Instrument ID: NT10 Cont. Calib. Date: 03/03/10

Init. Calib. Date: 02/22/10 Cont. Calib. Time: 1236

COMPOUND	CalAmt or ARF	CC Amt or RF	MIN RRF	CURVE TYPE	%D or Drift
d4-1,2-Dichloroethane	0.367	0.390	0.010	AVRG	6.3
d8-Toluene	1.219	1.239	0.010	AVRG	1.6
4-Bromofluorobenzene	0.406	0.417	0.010	AVRG	2.7
d4-1,2-Dichlorobenzene	0.778	0.745	0.010	AVRG	-4.2
Dibromofluoromethane	0.417	0.415	0.010	AVRG	-0.5

<- Exceeds QC limit of 20% D
* RF less than minimum RF

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt10.i Injection Date: 03-MAR-2010 12:36
Lab File ID: 1000303.d Init. Cal. Date(s): 22-FEB-2010 22-FEB-2010
Analysis Type: WATER Init. Cal. Times: 14:42 18:41
Lab Sample ID: CC0303 Quant Type: ISTD
Method: /chem1/nt10.i/03MAR10.b/82600122L.m

COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
1 Dichlorodifluoromethane	0.25081	0.39344	0.39344	0.010	56.86918	20.00000	Averaged	<-
2 Chloromethane	0.37517	0.38438	0.38438	0.100	2.45417	20.00000	Averaged	
3 Vinyl Chloride	0.44606	0.53477	0.53477	0.100	19.88867	20.00000	Averaged	
4 Bromomethane	9.83314	10.00000	0.37830	0.100	-1.66864	20.00000	Linear	
5 Chloroethane	0.35028	0.39452	0.39452	0.010	12.62725	20.00000	Averaged	
6 Trichlorofluoromethane	0.62699	0.74849	0.74849	0.010	19.37936	20.00000	Averaged	
8 Acrolein	0.02879	0.01006	0.01006	0.000	-65.03835	20.00000	Averaged	<-
9 112Trichloro122Trifluoroeth	0.41839	0.47138	0.47138	0.010	12.66546	20.00000	Averaged	
10 Acetone	0.04608	0.05778	0.05778	0.001	25.39415	20.00000	Averaged	<-
11 1,1-Dichloroethene	0.49765	0.57087	0.57087	0.100	14.71469	20.00000	Averaged	
12 Bromoethane	0.30371	0.33952	0.33952	0.100	11.79161	20.00000	Averaged	
13 Iodomethane	0.67258	0.60570	0.60570	0.010	-9.94427	20.00000	Averaged	
14 Methylene Chloride	0.41454	0.46570	0.46570	0.010	12.34061	20.00000	Averaged	
15 Acrylonitrile	0.05868	0.05699	0.05699	0.001	-2.88804	20.00000	Averaged	
16 Methyl tert butyl ether	0.73174	0.79497	0.79497	0.100	8.64128	20.00000	Averaged	
17 Carbon Disulfide	1.62950	1.71781	1.71781	0.010	5.41963	20.00000	Averaged	
18 Trans-1,2-Dichloroethene	0.52291	0.58497	0.58497	0.010	11.86812	20.00000	Averaged	
20 Vinyl Acetate	0.46273	0.36543	0.36543	0.010	-21.02647	20.00000	Averaged	<-
21 1,1-Dichloroethane	0.85192	0.94575	0.94575	0.200	11.01442	20.00000	Averaged	
22 2-Butanone	0.02964	0.05981	0.05981	0.001	102	20.00000	Averaged	<-
23 2,2-Dichloropropane	0.33898	0.36230	0.36230	0.010	6.87951	20.00000	Averaged	
24 Cis-1,2-Dichloroethene	0.58340	0.60509	0.60509	0.010	3.71864	20.00000	Averaged	
26 Chloroform	0.90761	0.97668	0.97668	0.200	7.61022	20.00000	Averaged	
27 Bromochloromethane	0.19816	0.21191	0.21191	0.050	6.93904	20.00000	Averaged	
$ 28 Dibromofluoromethane	0.41705	0.41515	0.41515	0.100	-0.45687	20.00000	Averaged	
29 1,1,1-Trichloroethane	0.70597	0.77157	0.77157	0.100	9.29245	20.00000	Averaged	
30 1,1-Dichloropropene	0.49647	0.54406	0.54406	0.010	9.58568	20.00000	Averaged	
31 Carbon Tetrachloride	0.36321	0.39868	0.39868	0.100	9.76753	20.00000	Averaged	
$ 32 d4-1,2-Dichloroethane	0.36676	0.39002	0.39002	0.010	6.34378	20.00000	Averaged	
33 1,2-Dichloroethane	0.30151	0.32088	0.32088	0.100	6.42594	20.00000	Averaged	
34 Benzene	1.40257	1.52907	1.52907	0.500	9.01860	20.00000	Averaged	
36 Trichloroethene	0.37582	0.43652	0.43652	0.100	16.15281	20.00000	Averaged	
37 1,2-Dichloropropane	0.30363	0.32194	0.32194	0.100	6.02780	20.00000	Averaged	
38 Bromodichloromethane	0.38400	0.41658	0.41658	0.100	8.48678	20.00000	Averaged	
39 Dibromomethane	0.12134	0.12817	0.12817	0.010	5.62589	20.00000	Averaged	

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt10.i Injection Date: 03-MAR-2010 12:36
Lab File ID: 1000303.d Init. Cal. Date(s): 22-FEB-2010 22-FEB-2010
Analysis Type: WATER Init. Cal. Times: 14:42 18:41
Lab Sample ID: CC0303 Quant Type: ISTD
Method: /chem1/nt10.i/03MAR10.b/82600122L.m

COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
40 2-Chloroethyl Vinyl Ether	0.07208	0.09572	0.09572	0.000	32.80381	20.00000	Averaged	<-
41 4-Methyl-2-Pentanone	0.05356	0.04534	0.04534	0.000	-15.34636	20.00000	Averaged	
42 Cis 1,3-dichloropropene	0.42736	0.46991	0.46991	0.200	9.95585	20.00000	Averaged	
$ 43 d8-Toluene	1.21850	1.23887	1.23887	0.010	1.67209	20.00000	Averaged	
44 Toluene	0.95666	1.03246	1.03246	0.400	7.92328	20.00000	Averaged	
45 Trans 1,3-Dichloropropene	0.31424	0.33571	0.33571	0.010	6.83015	20.00000	Averaged	
46 2-Hexanone	0.08726	0.08084	0.08084	0.010	-7.35831	20.00000	Averaged	
47 1,1,2-Trichloroethane	0.18629	0.19090	0.19090	0.100	2.47874	20.00000	Averaged	
48 1,3-Dichloropropane	0.35839	0.39071	0.39071	0.100	9.01536	20.00000	Averaged	
49 Tetrachloroethene	0.43471	0.48201	0.48201	0.200	10.88021	20.00000	Averaged	
50 Chlorodibromomethane	0.24026	0.26933	0.26933	0.100	12.09718	20.00000	Averaged	
51 1,2-Dibromoethane	0.16545	0.17155	0.17155	0.010	3.68714	20.00000	Averaged	
53 Chlorobenzene	1.05101	1.17359	1.17359	0.500	11.66302	20.00000	Averaged	
54 Ethyl Benzene	1.99424	2.23296	2.23296	0.100	11.97056	20.00000	Averaged	
55 1,1,1,2-Tetrachloroethane	0.32157	0.34407	0.34407	0.010	6.99681	20.00000	Averaged	
56 m,p-xylene	0.75156	0.85511	0.85511	0.300	13.77810	20.00000	Averaged	
58 o-Xylene	0.68117	0.76642	0.76642	0.300	12.51608	20.00000	Averaged	
59 Styrene	1.07185	1.17908	1.17908	0.300	10.00373	20.00000	Averaged	
60 Isopropyl Benzene	5.27878	5.45354	5.45354	0.010	3.31060	20.00000	Averaged	
61 Bromoform	0.30913	0.32107	0.32107	0.010	3.86241	20.00000	Averaged	
62 1,1,2,2-Tetrachloroethane	0.45327	0.43599	0.43599	0.100	-3.81215	20.00000	Averaged	
$ 63 4-Bromofluorobenzene	0.40569	0.41686	0.41686	0.200	2.75409	20.00000	Averaged	
64 1,2,3-Trichloropropane	0.13696	0.13627	0.13627	0.010	-0.50254	20.00000	Averaged	
65 Trans-1,4-Dichloro 2-Butene	9.58096	10.00000	0.08279	0.001	-4.19042	20.00000	Quadratic	
66 N-Propyl Benzene	6.02760	6.42185	6.42185	0.010	6.54075	20.00000	Averaged	
67 Bromobenzene	1.01073	1.01857	1.01857	0.010	0.77591	20.00000	Averaged	
68 1,3,5-Trimethyl Benzene	3.89972	4.20484	4.20484	0.010	7.82424	20.00000	Averaged	
69 2-Chloro Toluene	3.78603	3.95629	3.95629	0.010	4.49723	20.00000	Averaged	
70 4-Chloro Toluene	3.27945	3.45935	3.45935	0.010	5.48559	20.00000	Averaged	
71 T-Butyl Benzene	3.29586	3.44221	3.44221	0.010	4.44015	20.00000	Averaged	
72 1,2,4-Trimethylbenzene	3.69038	4.02625	4.02625	0.010	9.10126	20.00000	Averaged	
73 S-Butyl Benzene	4.84538	5.20185	5.20185	0.010	7.35696	20.00000	Averaged	
74 4-Isopropyl Toluene	3.69454	4.09773	4.09773	0.010	10.91314	20.00000	Averaged	
75 1,3-Dichlorobenzene	1.69538	1.84447	1.84447	0.600	8.79402	20.00000	Averaged	
77 1,4-Dichlorobenzene	1.61768	1.74477	1.74477	0.500	7.85594	20.00000	Averaged	

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt10.i Injection Date: 03-MAR-2010 12:36
Lab File ID: 1000303.d Init. Cal. Date(s): 22-FEB-2010 22-FEB-2010
Analysis Type: WATER Init. Cal. Times: 14:42 18:41
Lab Sample ID: CC0303 Quant Type: ISTD
Method: /chem1/nt10.i/03MAR10.b/82600122L.m

COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
78 N-Butyl Benzene	3.15749	3.59093	3.59093	0.010	13.72741	20.00000	Averaged
$ 79 d4-1,2-Dichlorobenzene	0.77768	0.74463	0.74463	0.010	-4.24934	20.00000	Averaged
80 1,2-Dichlorobenzene	1.27538	1.32757	1.32757	0.400	4.09267	20.00000	Averaged
81 1,2-Dibromo 3-Chloropropane	0.04044	0.04360	0.04360	0.010	7.80260	20.00000	Averaged
82 1,2,4-Trichlorobenzene	0.62170	0.59476	0.59476	0.010	-4.33335	20.00000	Averaged
83 Hexachloro 1,3-Butadiene	0.37002	0.36502	0.36502	0.010	-1.35201	20.00000	Averaged
84 Naphthalene	0.84484	0.76369	0.76369	0.010	-9.60524	20.00000	Averaged
85 1,2,3-Trichlorobenzene	0.42147	0.41003	0.41003	0.010	-2.71456	20.00000	Averaged

Analytical Resources, Inc.

8260C

Data file : /chem1/nt10.i/03MAR10.b/1000303.d
Lab Smp Id: CC0303 Client Smp ID: CC0303
Inj Date : 03-MAR-2010 12:36
Operator : ar Inst ID: nt10.i
Smp Info : CC0303,10,10,0
Misc Info : 10-
Comment :
Method : /chem1/nt10.i/03MAR10.b/82600122L.m
Meth Date : 04-Mar-2010 11:32 aron Quant Type: ISTD
Cal Date : 22-FEB-2010 15:12 Cal File: 6000222.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: voa.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	10.00000	Purge Volume (mL)
Sa	10.00000	Sample Amount (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Dichlorodifluoromethane	85	1.391	1.391	(0.264)	197891	10.0000	15.687
2 Chloromethane	50	1.551	1.551	(0.294)	193332	10.0000	10.245
3 Vinyl Chloride	62	1.613	1.613	(0.306)	268978	10.0000	11.989(Q)
4 Bromomethane	94	1.892	1.892	(0.359)	190277	10.0000	9.833
5 Chloroethane	64	2.006	2.006	(0.380)	198431	10.0000	11.263(Q)
6 Trichlorofluoromethane	101	2.131	2.131	(0.404)	376474	10.0000	11.938
8 Acrolein	56	3.002	3.002	(0.569)	5062	10.0000	3.496
9 112Trichloro122Trifluoroethane	101	2.672	2.672	(0.507)	237093	10.0000	11.267(Q)
10 Acetone	43	3.337	3.337	(0.633)	29060	10.0000	12.539
11 1,1-Dichloroethene	96	2.615	2.615	(0.496)	287135	10.0000	11.471(Q)
12 Bromoethane	108	2.882	2.882	(0.547)	170771	10.0000	11.179
13 Iodomethane	142	2.746	2.746	(0.521)	304652	10.0000	9.006
14 Methylene Chloride	84	3.252	3.252	(0.617)	234236	10.0000	11.234(Q)
15 Acrylonitrile	53	4.089	4.089	(0.775)	28662	10.0000	9.711
16 Methyl tert butyl ether	73	3.554	3.554	(0.674)	799697	20.0000	21.728(Q)
17 Carbon Disulfide	76	2.615	2.615	(0.496)	864018	10.0000	10.542

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
	18 Trans-1,2-Dichloroethene	96	3.417	3.417	(0.648)	294226	10.0000	11.187(Q)
	20 Vinyl Acetate	43	4.288	4.288	(0.813)	183803	10.0000	7.897
	21 1,1-Dichloroethane	63	4.026	4.026	(0.764)	475689	10.0000	11.101
	22 2-Butanone	72	4.988	4.988	(0.946)	30081	10.0000	20.180
	23 2,2-Dichloropropane	77	4.590	4.590	(0.870)	182226	10.0000	10.688(Q)
	24 Cis-1,2-Dichloroethene	96	4.498	4.498	(0.853)	304345	10.0000	10.372(Q)
*	25 Pentafluorobenzene	168	5.272	5.272	(1.000)	502975	10.0000	
	26 Chloroform	83	4.737	4.737	(0.899)	491246	10.0000	10.761
	27 Bromochloromethane	128	4.664	4.664	(0.884)	213172	20.0000	21.388(Q)
$	28 Dibromofluoromethane	111	4.885	4.885	(0.927)	208808	10.0000	9.954
	29 1,1,1-Trichloroethane	97	4.885	4.885	(0.927)	388082	10.0000	10.929
	30 1,1-Dichloropropene	75	4.982	4.982	(0.880)	444290	10.0000	10.959(Q)
	31 Carbon Tetrachloride	117	4.823	4.823	(0.852)	325575	10.0000	10.977(Q)
$	32 d4-1,2-Dichloroethane	65	5.290	5.290	(1.003)	196172	10.0000	10.634
	33 1,2-Dichloroethane	62	5.341	5.341	(0.944)	262039	10.0000	10.643(Q)
	34 Benzene	78	5.181	5.181	(0.916)	1248673	10.0000	10.902
*	35 1,4-Difluorobenzene	114	5.659	5.659	(1.000)	816624	10.0000	
	36 Trichloroethene	95	5.620	5.620	(0.993)	356474	10.0000	11.615(Q)
	37 1,2-Dichloropropane	63	6.007	6.007	(1.061)	262900	10.0000	10.603(Q)
	38 Bromodichloromethane	83	6.052	6.052	(1.069)	340193	10.0000	10.849
	39 Dibromomethane	93	5.933	5.933	(1.048)	104663	10.0000	10.563(Q)
	40 2-Chloroethyl Vinyl Ether	63	6.468	6.468	(1.143)	78170	10.0000	13.280(Q)
	41 4-Methyl-2-Pentanone	58	6.946	6.946	(1.227)	37025	10.0000	8.465(Q)
	42 Cis 1,3-dichloropropene	75	6.502	6.502	(1.149)	383740	10.0000	10.996(Q)
$	43 d8-Toluene	98	6.633	6.633	(1.172)	1011692	10.0000	10.167
	44 Toluene	92	6.667	6.667	(1.178)	843131	10.0000	10.792
	45 Trans 1,3-Dichloropropene	75	6.963	6.963	(1.230)	274144	10.0000	10.683(Q)
	46 2-Hexanone	43	7.526	7.526	(0.975)	59250	10.0000	9.264
	47 1,1,2-Trichloroethane	97	7.077	7.077	(1.250)	155896	10.0000	10.248(Q)
	48 1,3-Dichloropropane	76	7.264	7.264	(0.941)	286376	10.0000	10.902(Q)
	49 Tetrachloroethene	166	6.929	6.929	(0.898)	353299	10.0000	11.088(Q)
	50 Chlorodibromomethane	129	7.196	7.196	(0.932)	197408	10.0000	11.210(Q)
	51 1,2-Dibromoethane	107	7.361	7.361	(1.301)	140095	10.0000	10.369
*	52 d5-Chlorobenzene	117	7.720	7.720	(1.000)	732973	10.0000	
	53 Chlorobenzene	112	7.731	7.731	(1.001)	860211	10.0000	11.166(Q)
	54 Ethyl Benzene	91	7.748	7.748	(1.004)	1636702	10.0000	11.197(Q)
	55 1,1,1,2-Tetrachloroethane	131	7.777	7.777	(1.007)	252194	10.0000	10.700(Q)
	56 m,p-xylene	106	7.851	7.851	(1.017)	1253548	20.0000	22.756(Q)
	58 o-Xylene	106	8.158	8.158	(1.057)	561767	10.0000	11.252(Q)
	59 Styrene	104	8.198	8.198	(1.062)	864231	10.0000	11.000(Q)
	60 Isopropyl Benzene	105	8.380	8.380	(0.891)	1519686	10.0000	10.331
	61 Bromoform	173	8.215	8.215	(0.873)	89470	10.0000	10.386(Q)
	62 1,1,2,2-Tetrachloroethane	83	8.733	8.733	(0.928)	121492	10.0000	9.619
$	63 4-Bromofluorobenzene	95	8.585	8.585	(1.112)	305547	10.0000	10.275
	64 1,2,3-Trichloropropane	110	8.835	8.835	(0.939)	37973	10.0000	9.950(Q)
	65 Trans-1,4-Dichloro 2-Butene	53	8.869	8.869	(0.943)	23070	10.0000	9.581(Q)
	66 N-Propyl Benzene	91	8.681	8.681	(0.923)	1789518	10.0000	10.654(Q)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	67 Bromobenzene	156	8.664	8.664	(0.921)	283834	10.0000	10.078(Q)
	68 1,3,5-Trimethyl Benzene	105	8.824	8.824	(0.938)	1171723	10.0000	10.782(Q)
	69 2-Chloro Toluene	91	8.795	8.795	(0.935)	1102463	10.0000	10.450
	70 4-Chloro Toluene	91	8.915	8.915	(0.947)	963984	10.0000	10.549(Q)
	71 T-Butyl Benzene	119	9.057	9.057	(0.962)	959207	10.0000	10.444(Q)
	72 1,2,4-Trimethylbenzene	105	9.108	9.108	(0.968)	1121958	10.0000	10.910
	73 S-Butyl Benzene	105	9.188	9.188	(0.976)	1449551	10.0000	10.736(Q)
	74 4-Isopropyl Toluene	119	9.296	9.296	(0.988)	1141876	10.0000	11.091(Q)
	75 1,3-Dichlorobenzene	146	9.353	9.353	(0.994)	513981	10.0000	10.879(Q)
*	76 d4-1,4-Dichlorobenzene	152	9.410	9.410	(1.000)	278660	10.0000	
	77 1,4-Dichlorobenzene	146	9.421	9.421	(1.001)	486198	10.0000	10.786(Q)
	78 N-Butyl Benzene	91	9.615	9.615	(1.022)	1000651	10.0000	11.373(Q)
$	79 d4-1,2-Dichlorobenzene	152	9.734	9.734	(1.034)	207500	10.0000	9.575
	80 1,2-Dichlorobenzene	146	9.740	9.740	(1.035)	369942	10.0000	10.409(Q)
	81 1,2-Dibromo 3-Chloropropane	75	10.355	10.355	(1.100)	12148	10.0000	10.780(Q)
	82 1,2,4-Trichlorobenzene	180	10.878	10.878	(1.156)	165736	10.0000	9.567(Q)
	83 Hexachloro 1,3-Butadiene	225	10.855	10.855	(1.154)	101715	10.0000	9.865(Q)
	84 Naphthalene	128	11.140	11.140	(1.184)	212810	10.0000	9.039
	85 1,2,3-Trichlorobenzene	180	11.282	11.282	(1.199)	114259	10.0000	9.729(Q)

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: 1000303.d
Lab Smp Id: CC0303
Analysis Type: VOA
Quant Type: ISTD
Operator: ar
Method File: /chem1/nt10.i/03MAR10.b/82600122L.m
Misc Info: 10-

Calibration Date: 03-MAR-2010
Calibration Time: 12:36
Client Smp ID: CC0303
Level: LOW
Sample Type: WATER

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

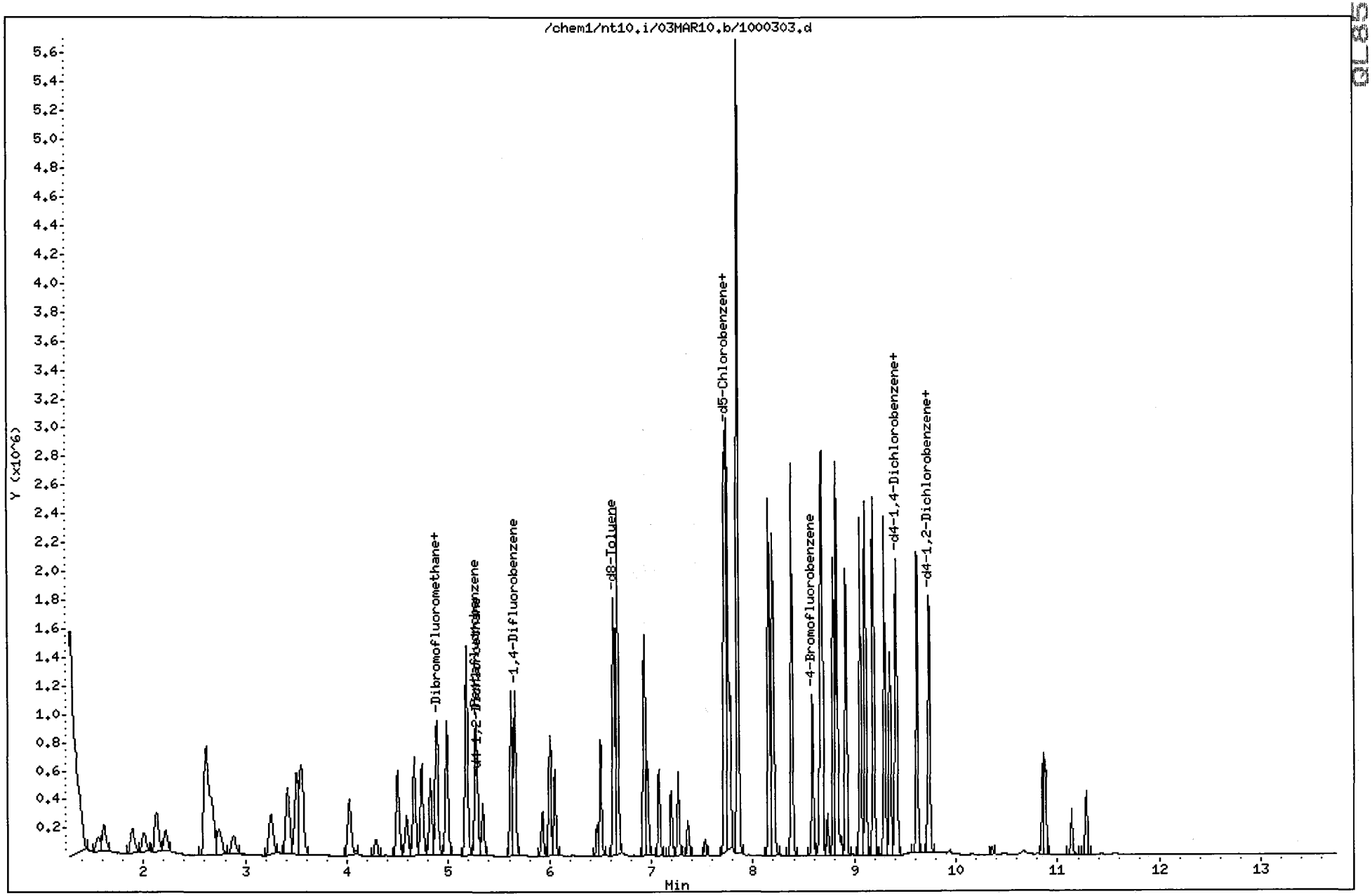
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
25 Pentafluorobenzen	456228	228114	912456	502975	10.25
35 1,4-Difluorobenze	740651	370326	1481302	816624	10.26
52 d5-Chlorobenzene	686240	343120	1372480	732973	6.81
76 d4-1,4-Dichlorobe	249963	124982	499926	278660	11.48

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
25 Pentafluorobenzen	5.27	4.77	5.77	5.27	0.00
35 1,4-Difluorobenze	5.66	5.16	6.16	5.66	0.00
52 d5-Chlorobenzene	7.72	7.22	8.22	7.72	0.00
76 d4-1,4-Dichlorobe	9.41	8.91	9.91	9.41	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem1/nt10.i/03MAR10.b/1000303.d
Date : 03-MAR-2010 12:36
Client ID: CC0303
Sample Info: CC0303,10,10,0

Instrument: nt10.i
Operator: ar
Column phase: RTX502.2
Column diameter: 0.18



7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD-SNIDER

ARI Job No: 09MAR10 Project: LORA LAKES APARTMENTS

Instrument ID: NT5 Cont. Calib. Date: 03/09/10

Init. Calib. Date: 03/09/10 Cont. Calib. Time: 1859

COMPOUND	CalAmt or ARF	CC Amt or RF	MIN RRF	CURVE TYPE	%D or Drift
Chloromethane	0.792	0.769	0.100	AVRG	-2.9
Vinyl Chloride	0.872	0.837	0.010	AVRG	-4.0
Bromomethane	0.455	0.409	0.010	AVRG	-10.1
Chloroethane	0.559	0.566	0.010	AVRG	1.2
Trichlorofluoromethane	0.855	0.854	0.010	AVRG	-0.1
Acrolein	0.029	0.029	0.010	AVRG	0.0
112Trichloro122Trifluoroetha	0.676	0.685	0.010	AVRG	1.3
Acetone	0.101	0.095	0.010	AVRG	-5.9
1,1-Dichloroethene	0.640	0.632	0.010	AVRG	-1.2
Bromoethane	0.470	0.479	0.010	AVRG	1.9
Iodomethane	0.805	0.838	0.010	AVRG	4.1
Methylene Chloride	10.000	10.052	0.010	LINR	0.5
Acrylonitrile	0.141	0.136	0.010	AVRG	-3.5
Carbon Disulfide	2.468	2.521	0.010	AVRG	2.1
Trans-1,2-Dichloroethene	0.713	0.715	0.010	AVRG	0.3
Vinyl Acetate	0.916	0.882	0.010	AVRG	-3.7
1,1-Dichloroethane	1.425	1.423	0.100	AVRG	-0.1
2-Butanone	0.086	0.087	0.010	AVRG	1.2
2,2-Dichloropropane	1.126	1.157	0.010	AVRG	2.8
Cis-1,2-Dichloroethene	0.746	0.742	0.010	AVRG	-0.5
Chloroform	1.228	1.211	0.010	AVRG	-1.4
Bromochloromethane	0.283	0.273	0.010	AVRG	-3.5
1,1,1-Trichloroethane	1.056	1.050	0.010	AVRG	-0.6
1,1-Dichloropropene	0.570	0.577	0.010	AVRG	1.2
Carbon Tetrachloride	0.453	0.452	0.010	AVRG	-0.2
1,2-Dichloroethane	0.424	0.411	0.010	AVRG	-3.1
Benzene	1.684	1.727	0.010	AVRG	2.6
Trichloroethene	0.368	0.370	0.010	AVRG	0.5
1,2-Dichloropropane	0.438	0.433	0.010	AVRG	-1.1
Bromodichloromethane	0.459	0.458	0.010	AVRG	-0.2
Dibromomethane	0.160	0.159	0.010	AVRG	-0.6
2-Chloroethyl Vinyl Ether	0.178	0.176	0.010	AVRG	-1.1
4-Methyl-2-Pentanone	0.089	0.082	0.010	AVRG	-7.9
Cis 1,3-dichloropropene	0.626	0.638	0.010	AVRG	1.9
Toluene	1.032	1.040	0.010	AVRG	0.8
Trans 1,3-Dichloropropene	0.498	0.488	0.010	AVRG	-2.0
2-Hexanone	0.168	0.159	0.010	AVRG	-5.4

<- Exceeds QC limit of 20% D
* RF less than minimum RF

FORM VII VOA

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD-SNIDER

ARI Job No: 09MAR10 Project: LORA LAKES APARTMENTS

Instrument ID: NT5 Cont. Calib. Date: 03/09/10

Init. Calib. Date: 03/09/10 Cont. Calib. Time: 1859

COMPOUND	CalAmt or ARF	CC Amt or RF	MIN RRF	CURVE TYPE	%D or Drift	
1,1,2-Trichloroethane	0.243	0.236	0.010	AVRG	-2.9	
1,3-Dichloropropane	0.549	0.553	0.010	AVRG	0.7	
Tetrachloroethene	0.377	0.383	0.010	AVRG	1.6	
Chlorodibromomethane	0.296	0.295	0.010	AVRG	-0.3	
1,2-Dibromoethane	0.219	0.213	0.010	AVRG	-2.7	
Chlorobenzene	1.154	1.165	0.300	AVRG	1.0	
Ethyl Benzene	2.159	2.260	0.010	AVRG	4.7	
1,1,1,2-Tetrachloroethane	0.370	0.372	0.010	AVRG	0.5	
m,p-xylene	0.798	0.834	0.010	AVRG	4.5	
o-Xylene	0.791	0.800	0.010	AVRG	1.1	
Styrene	1.262	1.321	0.010	AVRG	4.7	
Bromoform	0.293	0.302	0.100	AVRG	3.1	
1,1,2,2-Tetrachloroethane	0.664	0.664	0.300	AVRG	0.0	
1,2,3-Trichloropropane	0.163	0.167	0.010	AVRG	2.4	
Trans-1,4-Dichloro 2-Butene	0.203	0.204	0.010	AVRG	0.5	
N-Propyl Benzene	5.113	5.744	0.010	AVRG	12.3	
Bromobenzene	0.844	0.854	0.010	AVRG	1.2	
Isopropyl Benzene	4.268	4.747	0.010	AVRG	11.2	
2-Chloro Toluene	3.070	3.323	0.010	AVRG	8.2	
4-Chloro Toluene	3.146	3.374	0.010	AVRG	7.2	
T-Butyl Benzene	2.904	3.133	0.010	AVRG	7.9	
1,3,5-Trimethyl Benzene	3.458	3.782	0.010	AVRG	9.4	
1,2,4-Trimethylbenzene	3.467	3.768	0.010	AVRG	8.7	
S-Butyl Benzene	4.456	4.909	0.010	AVRG	10.2	
4-Isopropyl Toluene	3.457	3.842	0.010	AVRG	11.1	
1,3-Dichlorobenzene	1.717	1.755	0.010	AVRG	2.2	
1,4-Dichlorobenzene	1.762	1.768	0.010	AVRG	0.3	
N-Butyl Benzene	3.443	3.863	0.010	AVRG	12.2	
1,2-Dichlorobenzene	1.558	1.551	0.010	AVRG	-0.4	
1,2-Dibromo 3-Chloropropane	0.112	0.107	0.010	AVRG	-4.5	
1,2,4-Trichlorobenzene	0.936	0.934	0.010	AVRG	-0.2	
Hexachloro 1,3-Butadiene	0.360	0.378	0.010	AVRG	5.0	
Naphthalene	1.930	1.900	0.010	AVRG	-1.6	
1,2,3-Trichlorobenzene	0.744	0.752	0.010	AVRG	1.1	
Methyl tert butyl ether	1.642	1.580	0.010	AVRG	-3.8	
Dichlorodifluoromethane	0.397	0.407	0.010	AVRG	2.5	
Hexane			0.010	AVRG		*

<- Exceeds QC limit of 20% D

* RF less than minimum RF

FORM VII VOA

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD-SNIDER

ARI Job No: 09MAR10 Project: LORA LAKES APARTMENTS

Instrument ID: NT5 Cont. Calib. Date: 03/09/10

Init. Calib. Date: 03/09/10 Cont. Calib. Time: 1859

COMPOUND	CalAmt or ARF	CC Amt or RF	MIN RRF	CURVE TYPE	%D or Drift	
Allyl Chloride			0.010	AVRG		*
Methyl Methacrylate			0.010	AVRG		*
Cyclohexanone			0.010	AVRG		*
d4-1,2-Dichloroethane	0.532	0.525	0.010	AVRG	-1.3	
d8-Toluene	1.163	1.171	0.010	AVRG	0.7	
4-Bromofluorobenzene	0.476	0.473	0.010	AVRG	-0.6	
d4-1,2-Dichlorobenzene	0.880	0.877	0.010	AVRG	-0.3	
Dibromofluoromethane	0.467	0.462	0.010	AVRG	-1.1	

<- Exceeds QC limit of 20% D
* RF less than minimum RF

PC 3/10/10

Analytical Resources, Inc.

SW8260C 10 ML

Data file : /chem1/nt5.i/09MAR10A.b/03091020.d
Lab Smp Id: CC0309 Client Smp ID: CC0309
Inj Date : 09-MAR-2010 18:59
Operator : PC Inst ID: nt5.i
Smp Info : CC0309,10,10,0,
Misc Info : 10-
Comment :
Method : /chem1/nt5.i/09MAR10A.b/8260c030910L.m
Meth Date : 10-Mar-2010 11:27 paul Quant Type: ISTD
Cal Date : 09-MAR-2010 16:45 Cal File: 03091017.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	10.00000	Purge Volume (mL)
Sa	10.00000	Sample Amount (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Dichlorodifluoromethane	85	1.034	1.034	(0.218)	216294	10.0000	10.259
2 Chloromethane	50	1.159	1.159	(0.244)	408392	10.0000	9.709
3 Vinyl Chloride	62	1.221	1.221	(0.258)	444586	10.0000	9.601
4 Bromomethane	94	1.441	1.441	(0.304)	217281	10.0000	9.000
5 Chloroethane	64	1.538	1.538	(0.324)	300705	10.0000	10.127(M)
6 Trichlorofluoromethane	101	1.645	1.645	(0.347)	453793	10.0000	9.992
12 Acrolein	56	2.318	2.318	(0.489)	15621	10.0000	10.029
9 112Trichloro122Trifluoroethane	101	2.086	2.086	(0.440)	363845	10.0000	10.134
14 Acetone	43	2.590	2.590	(0.546)	50253	10.0000	9.348
7 1,1-Dichloroethene	96	2.041	2.041	(0.431)	335655	10.0000	9.878
11 Bromoethane	108	2.245	2.245	(0.474)	254385	10.0000	10.182
10 Iodomethane	142	2.143	2.143	(0.452)	444932	10.0000	10.400
13 Methylene Chloride	84	2.522	2.522	(0.532)	374570	10.0000	10.052
18 Acrylonitrile	53	3.348	3.348	(0.706)	72432	10.0000	9.654
16 Methyl tert butyl ether	73	2.799	2.799	(0.591)	1678384	20.0000	19.249
8 Carbon Disulfide	76	2.047	2.047	(0.432)	1338559	10.0000	10.215

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
	15 Trans-1,2-Dichloroethene	96	2.669	2.669	(0.563)	379654	10.0000	10.024
	19 Vinyl Acetate	43	3.591	3.591	(0.758)	468501	10.0000	9.636
	17 1,1-Dichloroethane	63	3.285	3.285	(0.693)	755627	10.0000	9.983
	29 2-Butanone	72	4.406	4.406	(0.930)	46272	10.0000	10.189(M)
	21 2,2-Dichloropropane	77	3.919	3.919	(0.827)	614572	10.0000	10.277
	20 Cis-1,2-Dichloroethene	96	3.823	3.823	(0.807)	394070	10.0000	9.952
*	32 Pentafluorobenzene	168	4.739	4.739	(1.000)	531018	10.0000	
	23 Chloroform	83	4.100	4.100	(0.865)	643228	10.0000	9.859
	22 Bromochloromethane	128	4.004	4.004	(0.845)	289783	20.0000	19.277
$	25 Dibromofluoromethane	111	4.264	4.264	(0.900)	245254	10.0000	9.889
	26 1,1,1-Trichloroethane	97	4.264	4.264	(0.900)	557433	10.0000	9.940
	28 1,1-Dichloropropene	75	4.383	4.383	(0.845)	571807	10.0000	10.126
	24 Carbon Tetrachloride	117	4.196	4.196	(0.809)	448128	10.0000	9.982
$	31 d4-1,2-Dichloroethane	65	4.728	4.728	(0.998)	279010	10.0000	9.888
	33 1,2-Dichloroethane	62	4.790	4.790	(0.924)	407505	10.0000	9.696
	30 Benzene	78	4.604	4.604	(0.888)	1710494	10.0000	10.252
*	35 1,4-Difluorobenzene	114	5.186	5.186	(1.000)	990517	10.0000	
	34 Trichloroethene	130	5.135	5.135	(0.990)	366679	10.0000	10.063
	38 1,2-Dichloropropane	63	5.577	5.577	(1.075)	428607	10.0000	9.887
	39 Bromodichloromethane	83	5.650	5.650	(1.089)	454112	10.0000	9.982
	37 Dibromomethane	93	5.486	5.486	(1.058)	157698	10.0000	9.933
	40 2-Chloroethyl Vinyl Ether	63	6.171	6.171	(1.190)	174709	10.0000	9.887
	45 4-Methyl-2-Pentanone	58	6.742	6.742	(1.300)	81037	10.0000	9.161
	41 Cis 1,3-dichloropropene	75	6.193	6.193	(1.194)	632518	10.0000	10.204
$	42 d8-Toluene	98	6.346	6.346	(1.224)	1159944	10.0000	10.072
	43 Toluene	92	6.391	6.391	(1.232)	1030519	10.0000	10.084
	46 Trans 1,3-Dichloropropene	75	6.753	6.753	(1.302)	483289	10.0000	9.805
	51 2-Hexanone	43	7.455	7.455	(0.975)	136430	10.0000	9.442
	47 1,1,2-Trichloroethane	97	6.883	6.883	(1.327)	233607	10.0000	9.689
	49 1,3-Dichloropropane	76	7.104	7.104	(0.929)	474188	10.0000	10.071
	44 Tetrachloroethene	166	6.708	6.708	(0.877)	328323	10.0000	10.148
	48 Chlorodibromomethane	129	7.019	7.019	(0.918)	252736	10.0000	9.954
	50 1,2-Dibromoethane	107	7.200	7.200	(1.388)	211063	10.0000	9.750
*	52 d5-Chlorobenzene	117	7.647	7.647	(1.000)	857666	10.0000	
	53 Chlorobenzene	112	7.664	7.664	(1.002)	999475	10.0000	10.101
	54 Ethyl Benzene	91	7.709	7.709	(1.008)	1938351	10.0000	10.469
	55 1,1,1,2-Tetrachloroethane	131	7.726	7.726	(1.010)	318992	10.0000	10.043
	56 m,p-xylene	106	7.839	7.839	(1.025)	1431442	20.0000	20.923
	57 o-Xylene	106	8.201	8.201	(1.072)	686508	10.0000	10.121
	58 Styrene	104	8.252	8.252	(1.079)	1132890	10.0000	10.465
	60 Isopropyl Benzene	105	8.484	8.484	(0.874)	1806193	10.0000	11.123
	59 Bromoform	173	8.247	8.247	(0.849)	114734	10.0000	10.293
	64 1,1,2,2-Tetrachloroethane	83	8.920	8.920	(0.918)	252567	10.0000	10.003
$	61 4-Bromofluorobenzene	95	8.716	8.716	(1.140)	405608	10.0000	9.937
	66 1,2,3-Trichloropropane	110	9.022	9.022	(0.929)	63553	10.0000	10.248
	68 Trans-1,4-Dichloro 2-Butene	53	9.072	9.072	(0.934)	77714	10.0000	10.048
	63 N-Propyl Benzene	91	8.852	8.852	(0.911)	2185584	10.0000	11.234

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
	62 Bromobenzene	156	8.790	8.790	(0.905)	324773	10.0000	10.112
	67 1,3,5-Trimethyl Benzene	105	9.039	9.039	(0.931)	1438934	10.0000	10.936
	65 2-Chloro Toluene	91	8.965	8.965	(0.923)	1264263	10.0000	10.825
	69 4-Chloro Toluene	91	9.118	9.118	(0.939)	1283699	10.0000	10.724
	70 T-Butyl Benzene	119	9.310	9.310	(0.959)	1192119	10.0000	10.790
	71 1,2,4-Trimethylbenzene	105	9.378	9.378	(0.966)	1433700	10.0000	10.870
	72 S-Butyl Benzene	105	9.474	9.474	(0.976)	1867835	10.0000	11.017
	73 4-Isopropyl Toluene	119	9.610	9.610	(0.990)	1461599	10.0000	11.111
	74 1,3-Dichlorobenzene	146	9.638	9.638	(0.992)	667731	10.0000	10.219
*	75 d4-1,4-Dichlorobenzene	152	9.712	9.712	(1.000)	380468	10.0000	
	76 1,4-Dichlorobenzene	146	9.723	9.723	(1.001)	672722	10.0000	10.037(Q)
	77 N-Butyl Benzene	91	9.995	9.995	(1.029)	1469809	10.0000	11.221
$	78 d4-1,2-Dichlorobenzene	152	10.091	10.091	(1.039)	333549	10.0000	9.957
	79 1,2-Dichlorobenzene	146	10.102	10.102	(1.040)	590000	10.0000	9.955
	81 1,2-Dibromo 3-Chloropropane	75	10.843	10.843	(1.116)	40742	10.0000	9.601
	83 1,2,4-Trichlorobenzene	180	11.494	11.494	(1.183)	355375	10.0000	9.973
	82 Hexachloro 1,3-Butadiene	225	11.488	11.488	(1.183)	143669	10.0000	10.483
	84 Naphthalene	128	11.799	11.799	(1.215)	722999	10.0000	9.844
	85 1,2,3-Trichlorobenzene	180	11.975	11.975	(1.233)	286116	10.0000	10.101

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt5.i Injection Date: 09-MAR-2010 18:59
Lab File ID: 03091020.d Init. Cal. Date(s): 09-MAR-2010 09-MAR-2010
Analysis Type: WATER Init. Cal. Times: 12:04 16:45
Lab Sample ID: CC0309 Quant Type: ISTD
Method: /chem1/nt5.i/09MAR10A.b/8260c030910L.m

COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
1 Dichlorodifluoromethane	0.39704	0.40732	0.40732	0.010	2.58917	20.00000	Averaged
2 Chloromethane	0.79214	0.76907	0.76907	0.100	-2.91190	20.00000	Averaged
3 Vinyl Chloride	0.87202	0.83723	0.83723	0.100	-3.98933	20.00000	Averaged
4 Bromomethane	0.45465	0.40918	0.40918	0.100	-10.00215	20.00000	Averaged
5 Chloroethane	0.55916	0.56628	0.56628	0.010	1.27278	20.00000	Averaged
6 Trichlorofluoromethane	0.85526	0.85457	0.85457	0.010	-0.08049	20.00000	Averaged
12 Acrolein	0.02933	0.02942	0.02942	0.010	0.28957	20.00000	Averaged
9 112Trichloro122Trifluoroeth	0.67609	0.68518	0.68518	0.010	1.34469	20.00000	Averaged
14 Acetone	0.10123	0.09464	0.09464	0.010	-6.51503	20.00000	Averaged
7 1,1-Dichloroethene	0.63987	0.63210	0.63210	0.100	-1.21546	20.00000	Averaged
11 Bromoethane	0.47047	0.47905	0.47905	0.010	1.82379	20.00000	Averaged
10 Iodomethane	0.80567	0.83788	0.83788	0.010	3.99865	20.00000	Averaged
13 Methylene Chloride	10.05246	10.00000	0.70538	0.010	0.52461	20.00000	Linear
18 Acrylonitrile	0.14130	0.13640	0.13640	0.010	-3.46319	20.00000	Averaged
16 Methyl tert butyl ether	1.64202	1.58035	1.58035	0.010	-3.75583	20.00000	Averaged
8 Carbon Disulfide	2.46762	2.52074	2.52074	0.010	2.15256	20.00000	Averaged
15 Trans-1,2-Dichloroethene	0.71327	0.71496	0.71496	0.010	0.23557	20.00000	Averaged
19 Vinyl Acetate	0.91556	0.88227	0.88227	0.010	-3.63630	20.00000	Averaged
17 1,1-Dichloroethane	1.42535	1.42298	1.42298	0.200	-0.16640	20.00000	Averaged
29 2-Butanone	0.08552	0.08714	0.08714	0.010	1.89218	20.00000	Averaged
21 2,2-Dichloropropane	1.12617	1.15735	1.15735	0.010	2.76836	20.00000	Averaged
20 Cis-1,2-Dichloroethene	0.74566	0.74210	0.74210	0.010	-0.47744	20.00000	Averaged
23 Chloroform	1.22857	1.21131	1.21131	0.200	-1.40506	20.00000	Averaged
22 Bromochloromethane	0.28308	0.27286	0.27286	0.010	-3.61326	20.00000	Averaged
$ 25 Dibromofluoromethane	0.46702	0.46186	0.46186	0.010	-1.10567	20.00000	Averaged
26 1,1,1-Trichloroethane	1.05603	1.04974	1.04974	0.100	-0.59529	20.00000	Averaged
28 1,1-Dichloropropene	0.57008	0.57728	0.57728	0.010	1.26254	20.00000	Averaged
24 Carbon Tetrachloride	0.45323	0.45242	0.45242	0.100	-0.17940	20.00000	Averaged
$ 31 d4-1,2-Dichloroethane	0.53137	0.52542	0.52542	0.010	-1.11837	20.00000	Averaged
33 1,2-Dichloroethane	0.42429	0.41141	0.41141	0.100	-3.03729	20.00000	Averaged
30 Benzene	1.68437	1.72687	1.72687	0.500	2.52304	20.00000	Averaged
34 Trichloroethene	0.36789	0.37019	0.37019	0.200	0.62508	20.00000	Averaged
38 1,2-Dichloropropane	0.43764	0.43271	0.43271	0.100	-1.12614	20.00000	Averaged
39 Bromodichloromethane	0.45929	0.45846	0.45846	0.200	-0.17974	20.00000	Averaged
37 Dibromomethane	0.16029	0.15921	0.15921	0.010	-0.67444	20.00000	Averaged

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt5.i Injection Date: 09-MAR-2010 18:59
Lab File ID: 03091020.d Init. Cal. Date(s): 09-MAR-2010 09-MAR-2010
Analysis Type: WATER Init. Cal. Times: 12:04 16:45
Lab Sample ID: CC0309 Quant Type: ISTD
Method: /chem1/nt5.i/09MAR10A.b/8260c030910L.m

COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
40 2-Chloroethyl Vinyl Ether	0.17841	0.17638	0.17638	0.010	-1.13419	20.00000	Averaged
45 4-Methyl-2-Pentanone	0.08931	0.08181	0.08181	0.010	-8.39386	20.00000	Averaged
41 Cis 1,3-dichloropropene	0.62579	0.63857	0.63857	0.200	2.04346	20.00000	Averaged
$ 42 d8-Toluene	1.16273	1.17105	1.17105	0.010	0.71547	20.00000	Averaged
43 Toluene	1.03170	1.04038	1.04038	0.400	0.84200	20.00000	Averaged
46 Trans 1,3-Dichloropropene	0.49763	0.48792	0.48792	0.100	-1.95167	20.00000	Averaged
51 2-Hexanone	0.16848	0.15907	0.15907	0.010	-5.58338	20.00000	Averaged
47 1,1,2-Trichloroethane	0.24340	0.23584	0.23584	0.100	-3.10610	20.00000	Averaged
49 1,3-Dichloropropane	0.54897	0.55288	0.55288	0.010	0.71259	20.00000	Averaged
44 Tetrachloroethene	0.37723	0.38281	0.38281	0.200	1.48035	20.00000	Averaged
48 Chlorodibromomethane	0.29605	0.29468	0.29468	0.010	-0.46328	20.00000	Averaged
50 1,2-Dibromoethane	0.21856	0.21308	0.21308	0.010	-2.50383	20.00000	Averaged
53 Chlorobenzene	1.15363	1.16534	1.16534	0.500	1.01497	20.00000	Averaged
54 Ethyl Benzene	2.15872	2.26003	2.26003	0.100	4.69289	20.00000	Averaged
55 1,1,1,2-Tetrachloroethane	0.37035	0.37193	0.37193	0.010	0.42652	20.00000	Averaged
56 m,p-xylene	0.79768	0.83450	0.83450	0.100	4.61582	20.00000	Averaged
57 o-Xylene	0.79087	0.80044	0.80044	0.300	1.21006	20.00000	Averaged
58 Styrene	1.26221	1.32090	1.32090	0.300	4.64970	20.00000	Averaged
60 Isopropyl Benzene	4.26796	4.74729	4.74729	0.010	11.23100	20.00000	Averaged
59 Bromoform	0.29298	0.30156	0.30156	0.100	2.92771	20.00000	Averaged
64 1,1,2,2-Tetrachloroethane	0.66367	0.66383	0.66383	0.300	0.02521	20.00000	Averaged
$ 61 4-Bromofluorobenzene	0.47593	0.47292	0.47292	0.010	-0.63199	20.00000	Averaged
66 1,2,3-Trichloropropane	0.16300	0.16704	0.16704	0.010	2.47783	20.00000	Averaged
68 Trans-1,4-Dichloro 2-Butene	0.20328	0.20426	0.20426	0.010	0.47939	20.00000	Averaged
63 N-Propyl Benzene	5.11342	5.74446	5.74446	0.010	12.34089	20.00000	Averaged
62 Bromobenzene	0.84412	0.85361	0.85361	0.010	1.12446	20.00000	Averaged
67 1,3,5-Trimethyl Benzene	3.45823	3.78201	3.78201	0.010	9.36262	20.00000	Averaged
65 2-Chloro Toluene	3.06970	3.32292	3.32292	0.010	8.24877	20.00000	Averaged
69 4-Chloro Toluene	3.14617	3.37400	3.37400	0.010	7.24153	20.00000	Averaged
70 T-Butyl Benzene	2.90378	3.13330	3.13330	0.010	7.90399	20.00000	Averaged
71 1,2,4-Trimethylbenzene	3.46665	3.76825	3.76825	0.010	8.70007	20.00000	Averaged
72 S-Butyl Benzene	4.45603	4.90931	4.90931	0.010	10.17217	20.00000	Averaged
73 4-Isopropyl Toluene	3.45732	3.84158	3.84158	0.010	11.11442	20.00000	Averaged
74 1,3-Dichlorobenzene	1.71746	1.75503	1.75503	0.600	2.18736	20.00000	Averaged
76 1,4-Dichlorobenzene	1.76159	1.76814	1.76814	0.400	0.37196	20.00000	Averaged

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt5.i Injection Date: 09-MAR-2010 18:59
Lab File ID: 03091020.d Init. Cal. Date(s): 09-MAR-2010 09-MAR-2010
Analysis Type: WATER Init. Cal. Times: 12:04 16:45
Lab Sample ID: CC0309 Quant Type: ISTD
Method: /chem1/nt5.i/09MAR10A.b/8260c030910L.m

COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
77 N-Butyl Benzene	3.44287	3.86316	3.86316	0.010	12.20741	20.00000	Averaged
$ 78 d4-1,2-Dichlorobenzene	0.88044	0.87668	0.87668	0.010	-0.42752	20.00000	Averaged
79 1,2-Dichlorobenzene	1.55769	1.55072	1.55072	0.400	-0.44722	20.00000	Averaged
81 1,2-Dibromo 3-Chloropropane	0.11154	0.10708	0.10708	0.010	-3.99493	20.00000	Averaged
83 1,2,4-Trichlorobenzene	0.93662	0.93405	0.93405	0.010	-0.27486	20.00000	Averaged
82 Hexachloro 1,3-Butadiene	0.36022	0.37761	0.37761	0.010	4.82754	20.00000	Averaged
84 Naphthalene	1.93042	1.90029	1.90029	0.010	-1.56097	20.00000	Averaged
85 1,2,3-Trichlorobenzene	0.74450	0.75201	0.75201	0.010	1.00872	20.00000	Averaged

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt5.i
Lab File ID: 03091020.d
Lab Smp Id: CC0309
Analysis Type: VOA
Quant Type: ISTD
Operator: PC
Method File: /chem1/nt5.i/09MAR10A.b/8260c030910L.m
Misc Info: 10-

Calibration Date: 09-MAR-2010
Calibration Time: 18:59
Client Smp ID: CC0309
Level: LOW
Sample Type: WATER

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
32 Pentafluorobenzen	526014	263007	1052028	531018	0.95
35 1,4-Difluorobenze	985179	492590	1970358	990517	0.54
52 d5-Chlorobenzene	845025	422512	1690050	857666	1.50
75 d4-1,4-Dichlorobe	383446	191723	766892	380468	-0.78

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
32 Pentafluorobenzen	4.74	4.24	5.24	4.74	0.00
35 1,4-Difluorobenze	5.19	4.69	5.69	5.19	0.00
52 d5-Chlorobenzene	7.65	7.15	8.15	7.65	0.00
75 d4-1,4-Dichlorobe	9.71	9.21	10.21	9.71	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem1/nt5.i/09MAR10A.b/03091020.d

Date : 09-MAR-2010 18:59

Client ID: CC0309

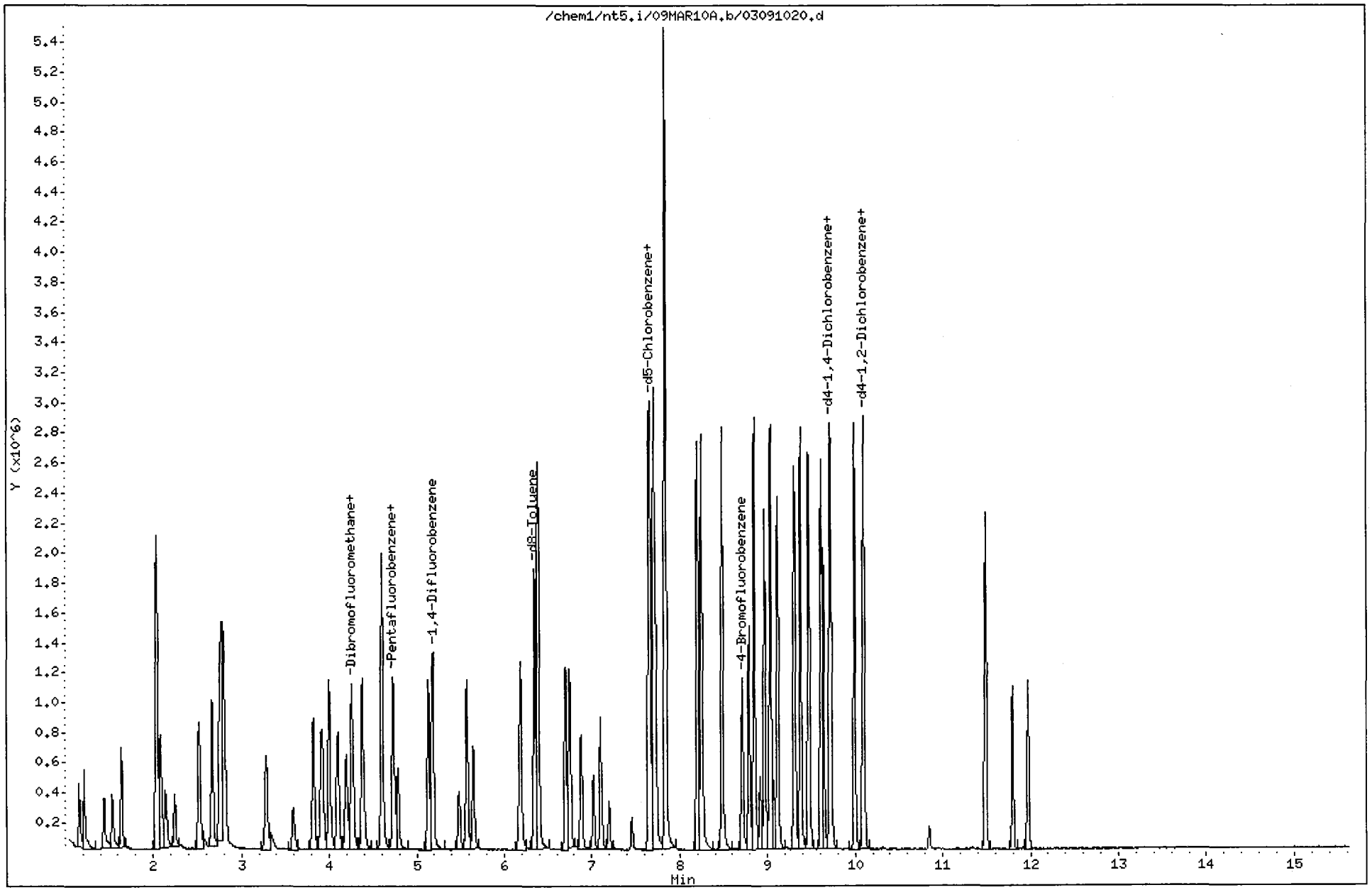
Instrument: nt5.i

Sample Info: CC0309,10,10,0,

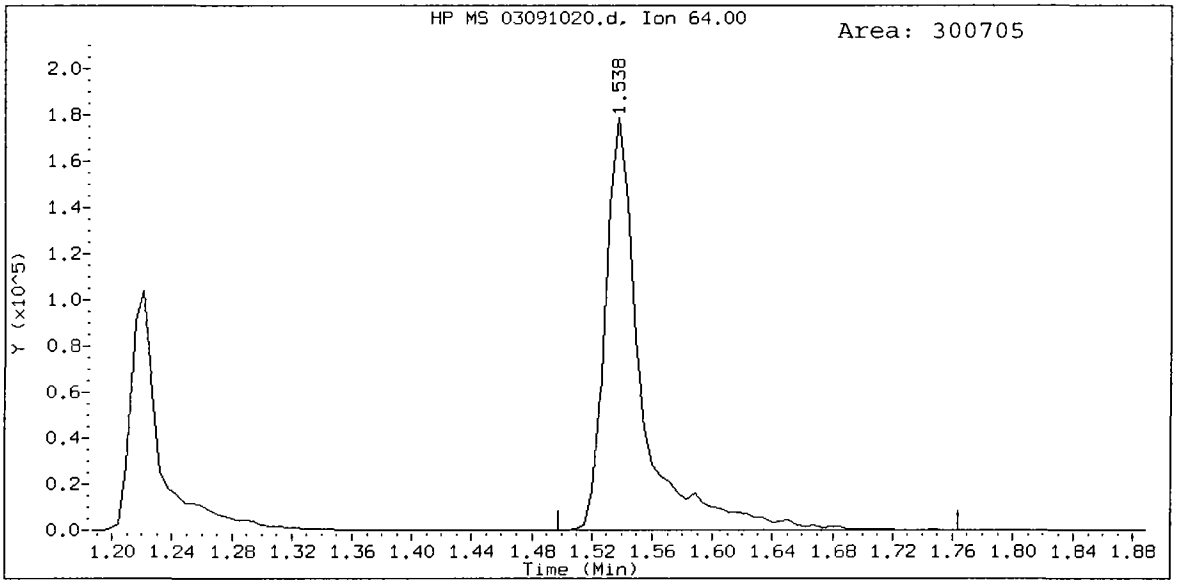
Operator: PC

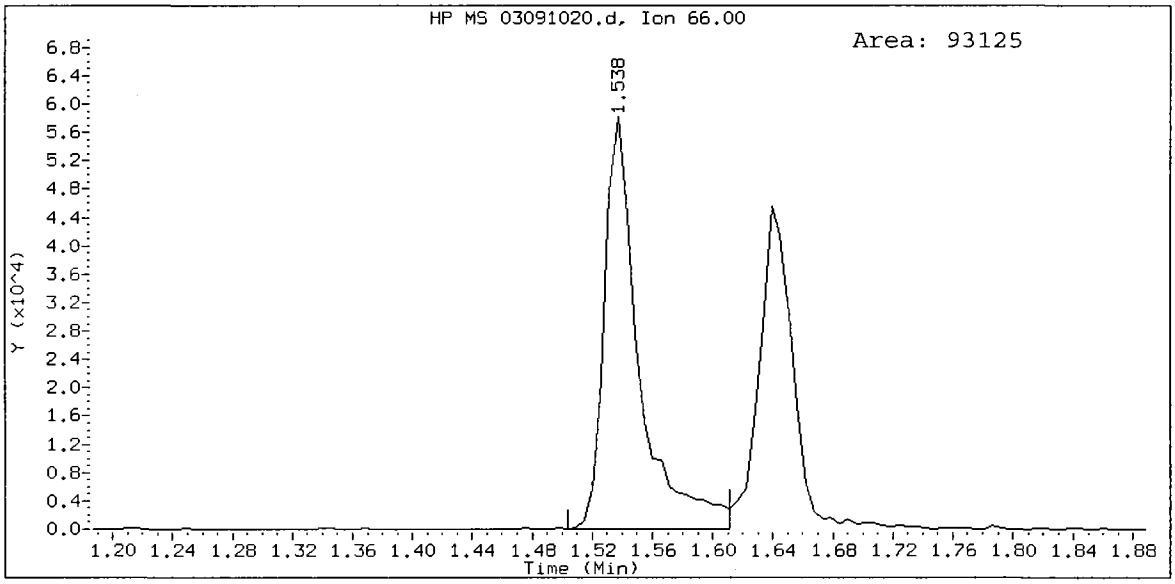
Column phase: RTXVMS

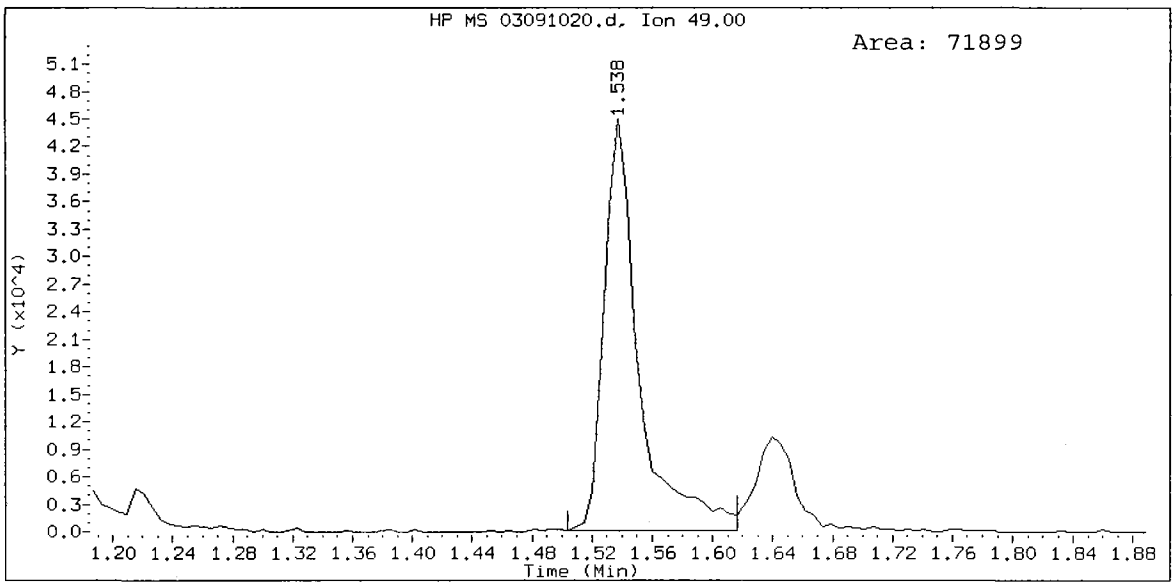
Column diameter: 0.18



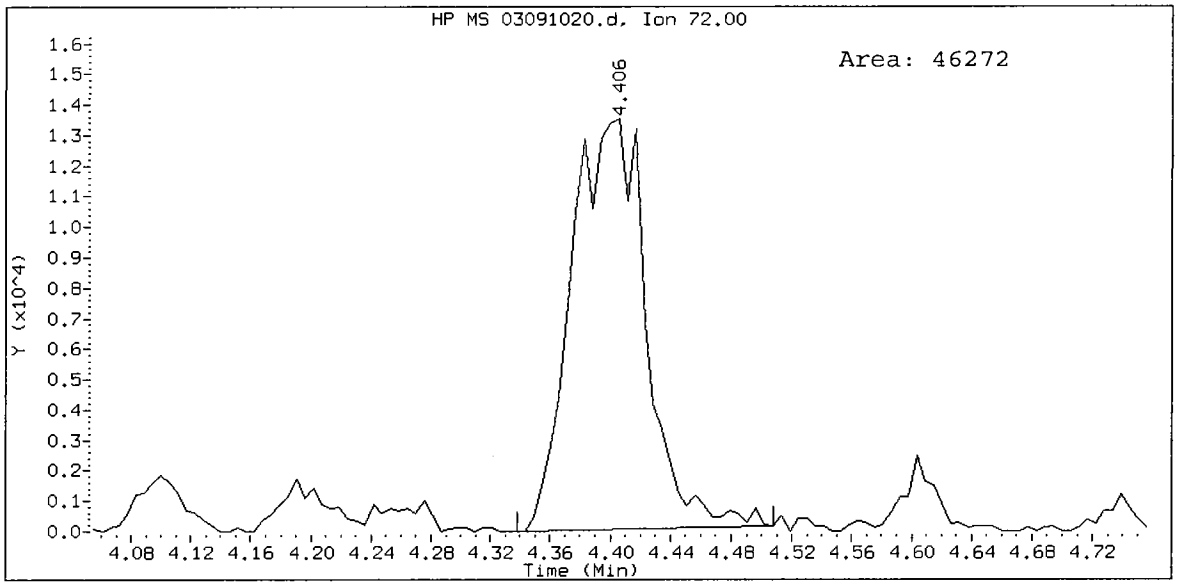
CC0309, /chem1/nt5.i/09MAR10A.b/03091020.d
Chloroethane Amount: 10.13

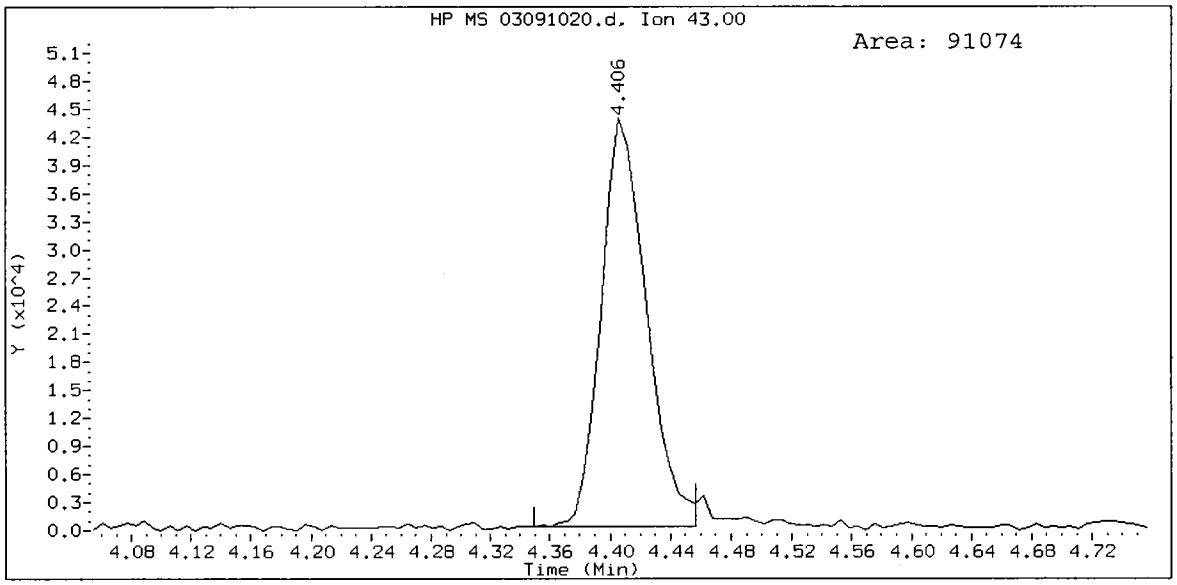


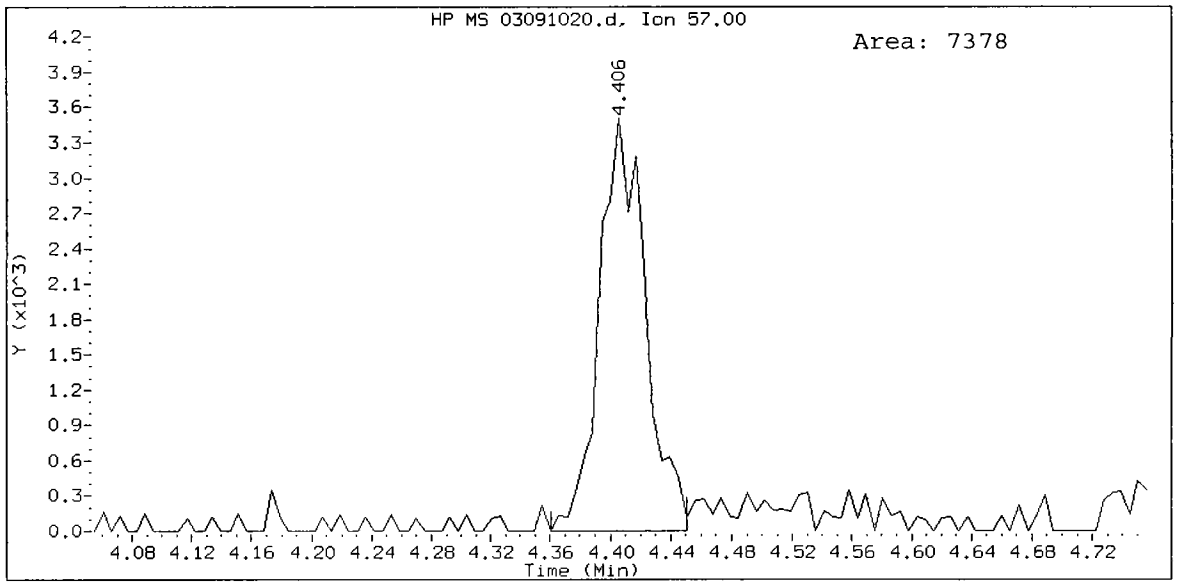




CC0309, /chem1/nt5.i/09MAR10A.b/03091020.d
2-Butanone Amount: 10.19







Volatile Analysis
QC Raw Data

prepared
for

Floyd-Snider

Project: Lora Lakes Apartments, POS-LLA

ARI JOB NO: QL85

prepared
by

Analytical Resources, Inc.

Data File: /chem1/nt10.i/22FEB10.b/bfb0222.d

Date : 22-FEB-2010 13:17

Client ID: BFB0222

Instrument: nt10.i

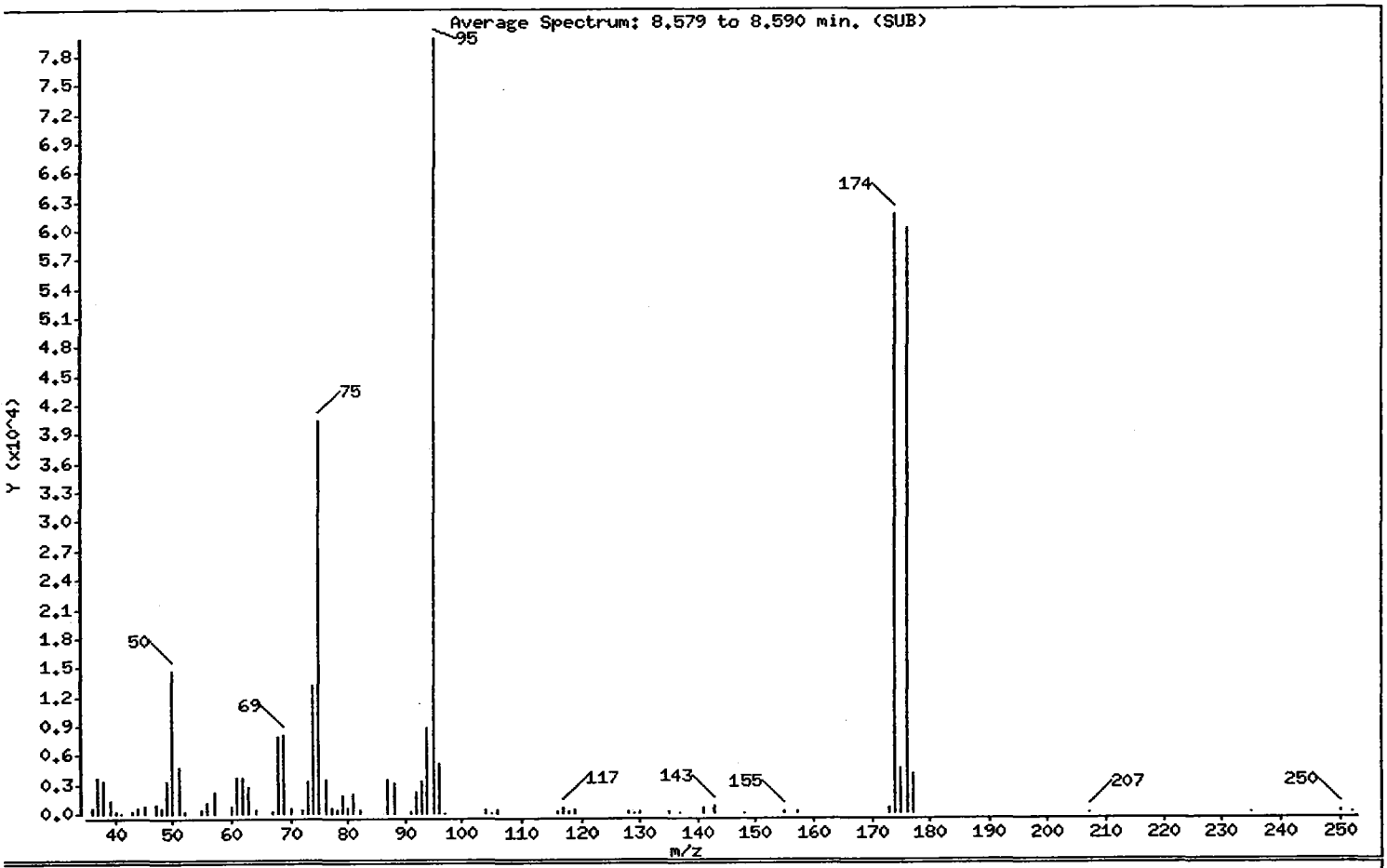
Sample Info: BFB0222,BFB0222,,1,22FEB10,,

Operator: ar

Column phase: RTX502.2

Column diameter: 0.18

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	18.33
75	30.00 - 66.00% of mass 95	50.48
96	5.00 - 9.00% of mass 95	6.39
173	Less than 2.00% of mass 174	0.60 (0.78)
174	50.00 - 101.00% of mass 95	77.14
175	4.00 - 9.00% of mass 174	5.79 (7.51)
176	93.00 - 101.00% of mass 174	75.43 (97.78)
177	5.00 - 9.00% of mass 176	4.96 (6.58)

Data File: /chem1/nt10.i/22FEB10.b/bfb0222.d

Date : 22-FEB-2010 13:17

Client ID: BFB0222 Instrument: nt10.i

Sample Info: BFB0222,BFB0222,,1,22FEB10,,

Operator: ar

Column phase: RTX502.2 Column diameter: 0.18

Data File: bfb0222.d

Spectrum: Average Spectrum: 8.579 to 8.590 min. (SUB)

Location of Maximum: 95.00

Number of points: 73

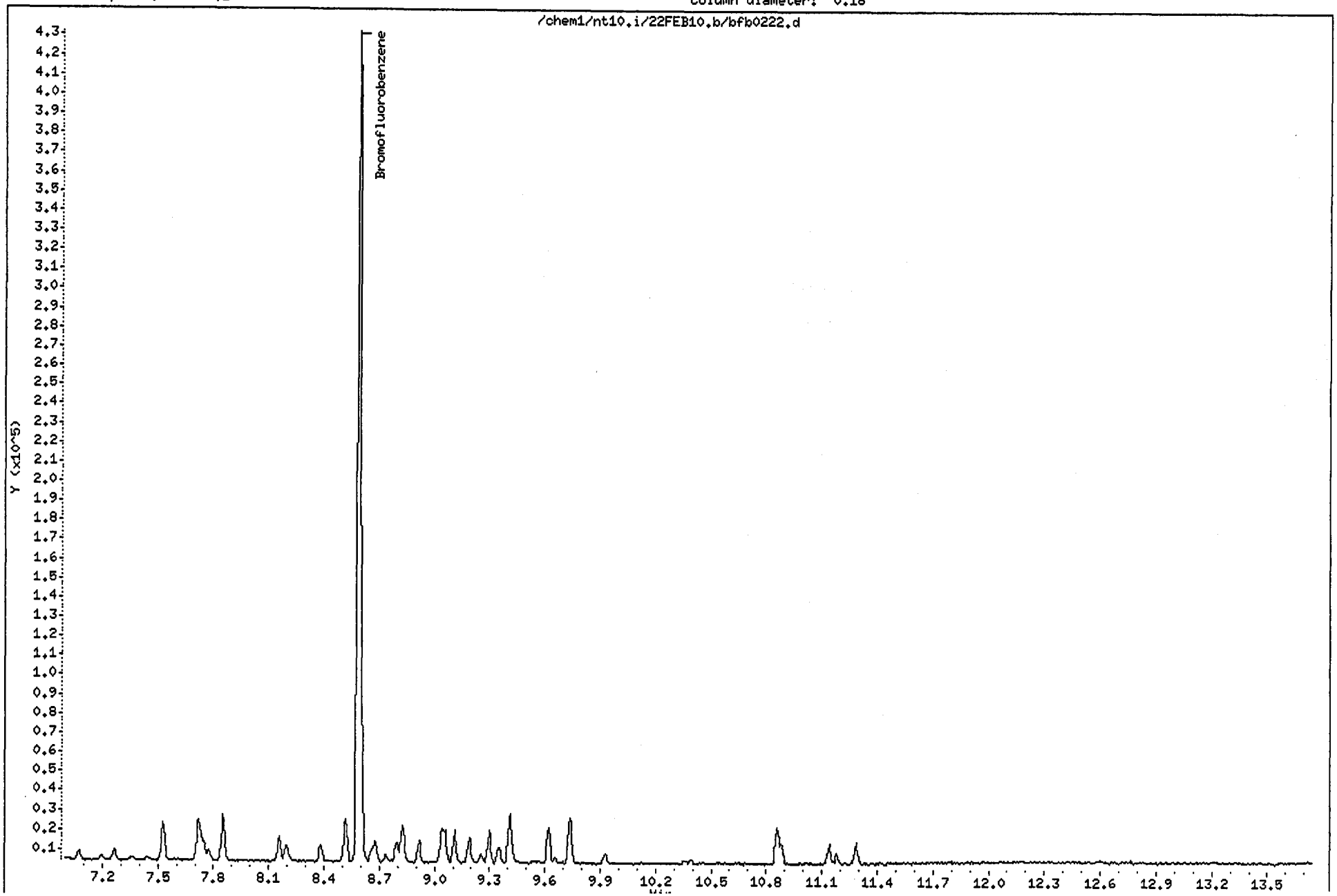
m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	616	61.00	3746	87.00	3421	135.00	119
37.00	3597	62.00	3633	88.00	3129	137.00	66
38.00	3284	63.00	2710	91.00	263	141.00	641
39.00	1243	64.00	286	92.00	2280	143.00	656
40.00	159	67.00	232	93.00	3294	148.00	75
41.00	57	68.00	7933	94.00	8853	155.00	181
43.00	120	69.00	8058	95.00	79816	157.00	104
44.00	465	70.00	606	96.00	5104	173.00	482
45.00	689	72.00	416	97.00	84	174.00	61576
47.00	915	73.00	3372	104.00	331	175.00	4625
48.00	461	74.00	13146	105.00	53	176.00	60208
49.00	3242	75.00	40288	106.00	318	177.00	3959
50.00	14634	76.00	3404	116.00	222	207.00	50
51.00	4827	77.00	514	117.00	472	235.00	53
52.00	197	78.00	351	118.00	260	250.00	167
55.00	295	79.00	1885	119.00	376	252.00	9
56.00	1143	80.00	550	128.00	256		
57.00	2204	81.00	2007	129.00	55		
60.00	775	82.00	443	130.00	261		

Data File: /chem1/nt10.i/22FEB10.b/bfb0222.d
Date : 22-FEB-2010 13:17
Client ID: BFB0222
Sample Info: BFB0222,BFB0222,,1,22FEB10,,

Instrument: nt10.i

Operator: ar
Column diameter: 0.18

Column phase: RTX502.2



Data File: /chem1/nt5.i/09MAR10.b/03091001.d

Date : 09-MAR-2010 09:03

Client ID: BFB0309

Instrument: nt5.i

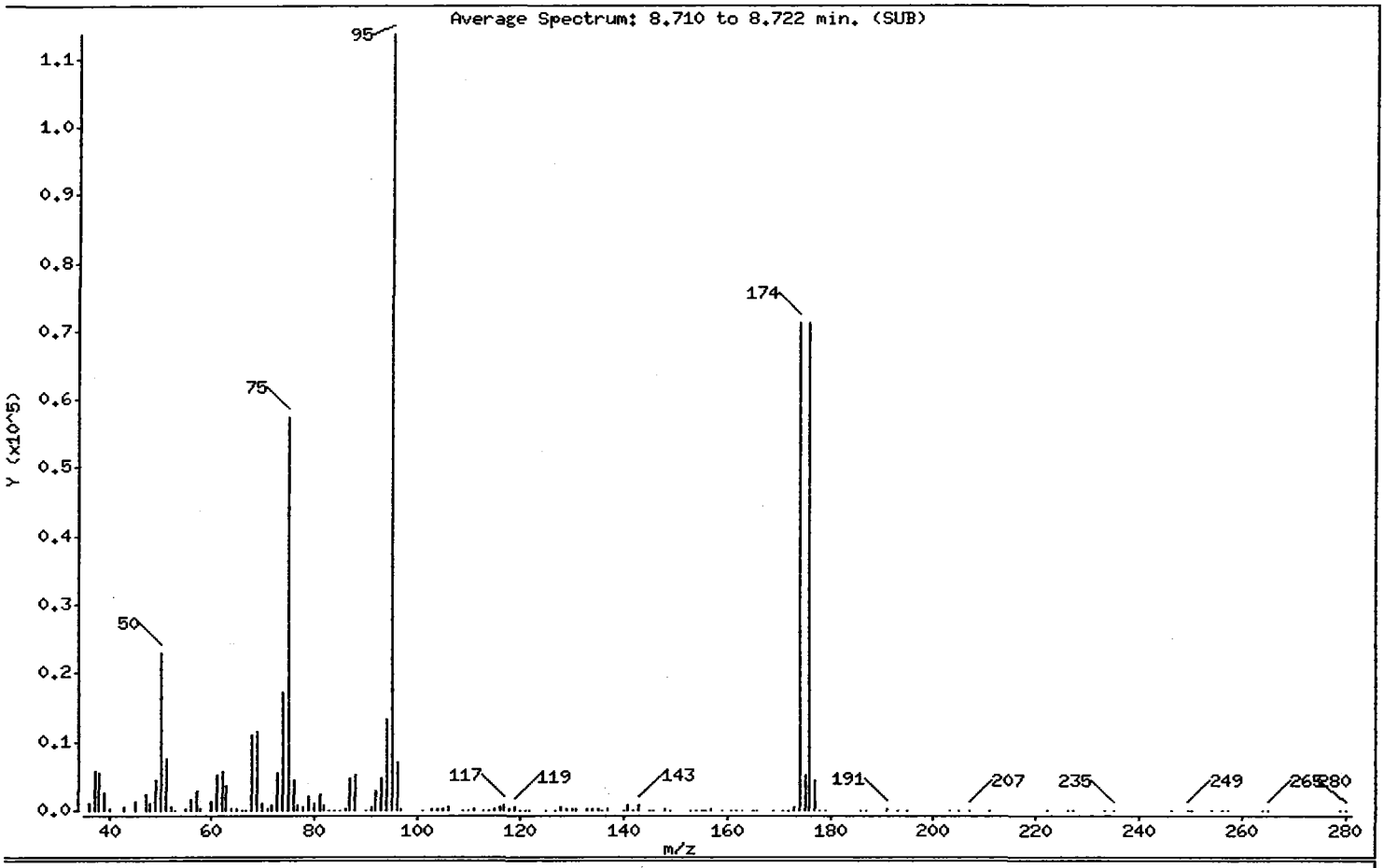
Sample Info: BFB0309,BFB0309,1,09MAR10,

Operator: PC

Column phase: RTXVMS

Column diameter: 0.18

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	20.22
75	30.00 - 66.00% of mass 95	50.52
96	5.00 - 9.00% of mass 95	6.18
173	Less than 2.00% of mass 174	0.41 (0.65)
174	50.00 - 101.00% of mass 95	62.80
175	4.00 - 9.00% of mass 174	4.64 (7.38)
176	93.00 - 101.00% of mass 174	62.73 (99.88)
177	5.00 - 9.00% of mass 176	3.92 (6.24)

Data File: /chem1/nt5.i/09MAR10.b/03091001.d

Date : 09-MAR-2010 09:03

Client ID: BFB0309

Instrument: nt5.i

Sample Info: BFB0309,BFB0309,1,09MAR10,

Operator: PC

Column phase: RTXVMS

Column diameter: 0.18

Data File: 03091001.d

Spectrum: Average Spectrum: 8.710 to 8.722 min. (SUB)

Location of Maximum: 95.00

Number of points: 137

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1068	77.00	864	120.00	42	172.00	55
37.00	5744	78.00	452	121.00	37	173.00	467
38.00	5567	79.00	2080	122.00	126	174.00	71320
39.00	2630	80.00	969	125.00	124	175.00	5267
40.00	202	81.00	2286	127.00	94	176.00	71232
43.00	446	82.00	790	128.00	420	177.00	4448
45.00	1391	83.00	36	129.00	216	178.00	79
47.00	2299	84.00	36	130.00	234	179.00	41
48.00	978	85.00	42	131.00	188	186.00	35
49.00	4529	86.00	196	133.00	245	187.00	58
50.00	22968	87.00	4787	134.00	143	191.00	199
51.00	7517	88.00	5313	135.00	223	193.00	128
52.00	454	90.00	121	136.00	60	195.00	76
53.00	62	91.00	456	137.00	160	203.00	39
55.00	291	92.00	2748	140.00	46	205.00	40
56.00	1445	93.00	4733	141.00	653	207.00	107
57.00	2938	94.00	13421	142.00	105	211.00	34
58.00	160	95.00	113568	143.00	784	222.00	33
60.00	1180	96.00	7020	145.00	109	226.00	37
61.00	5281	97.00	246	146.00	98	227.00	40
62.00	5677	101.00	36	148.00	215	233.00	37
63.00	3722	103.00	155	149.00	73	235.00	87
64.00	308	104.00	339	153.00	48	246.00	47
65.00	205	105.00	247	154.00	94	249.00	66
66.00	20	106.00	485	155.00	107	250.00	48
67.00	122	109.00	40	156.00	46	254.00	52
68.00	10884	110.00	46	157.00	155	256.00	56
69.00	11574	111.00	209	159.00	73	257.00	40
70.00	1020	113.00	98	161.00	99	264.00	92
71.00	143	114.00	35	162.00	34	265.00	121
72.00	794	115.00	135	163.00	83	279.00	35
73.00	5358	116.00	418	165.00	35	280.00	34
74.00	17344	117.00	704	166.00	34		
75.00	57368	118.00	330	169.00	39		
76.00	4403	119.00	600	171.00	57		

Data File: /chem1/nt5.i/09MAR10.b/03091001.d

Date : 09-MAR-2010 09:03

Client ID: BFB0309

Instrument: nt5.i

Sample Info: BFB0309,BFB0309,1,09MAR10,

Operator: PC

Column phase: RTXVMS

Column diameter: 0.18

Data File: 03091001.d

Spectrum: Average Spectrum: 8.710 to 8.722 min. (SUB)

Location of Maximum: 95.00

Number of points: 137

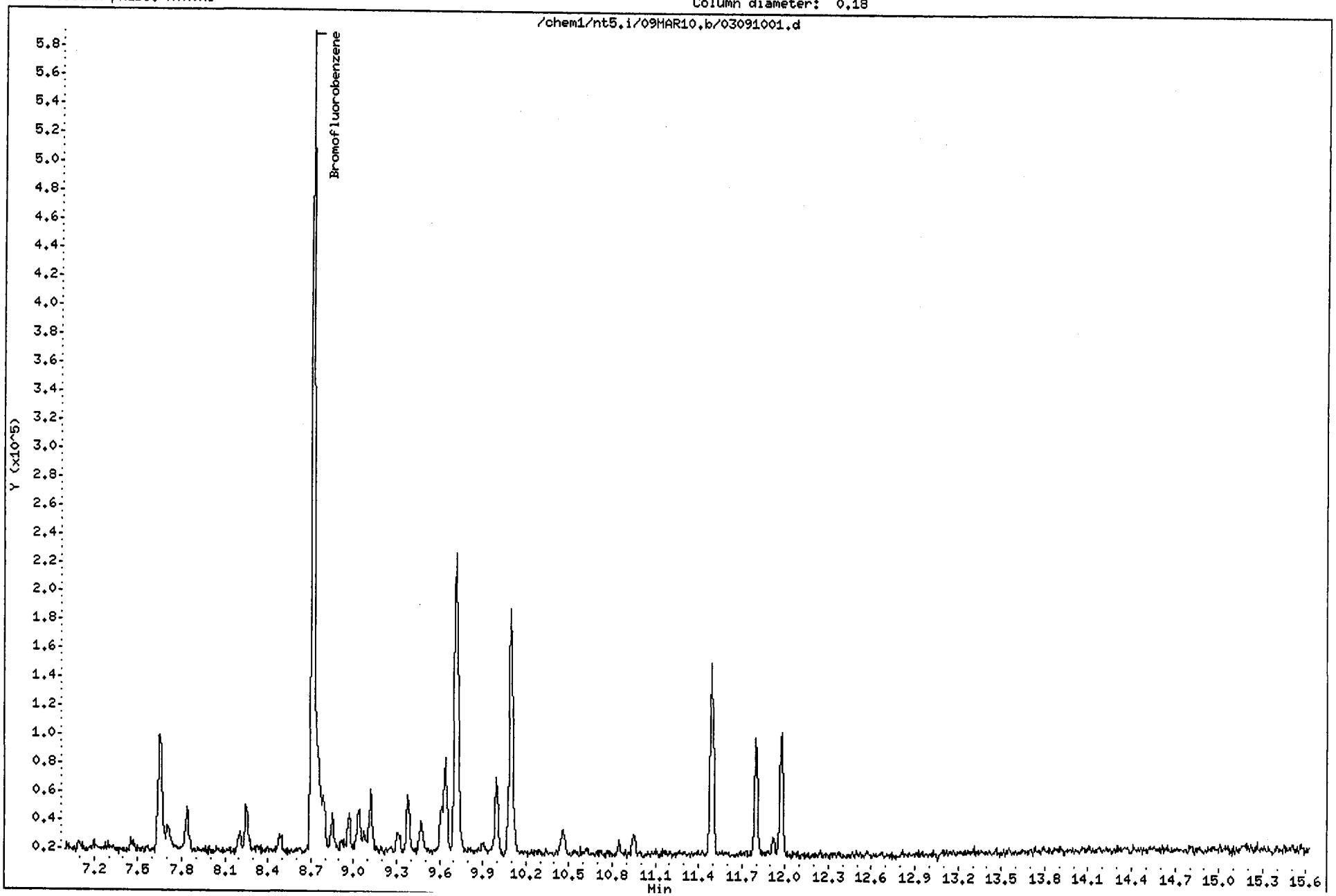
m/z	Y	m/z	Y	m/z	Y	m/z	Y

Data File: /chem1/nt5.i/09MAR10.b/03091001.d
Date : 09-MAR-2010 09:03
Client ID: BFB0309
Sample Info: BFB0309,BFB0309,1,09MAR10,

Column phase: RTXVMS

Instrument: nt5.i

Operator: PC
Column diameter: 0.18



Data File: /chem1/nt10.i/03MAR10.b/bfb0303.d

Date : 03-MAR-2010 11:09

Client ID: BFB0303

Instrument: nt10.i

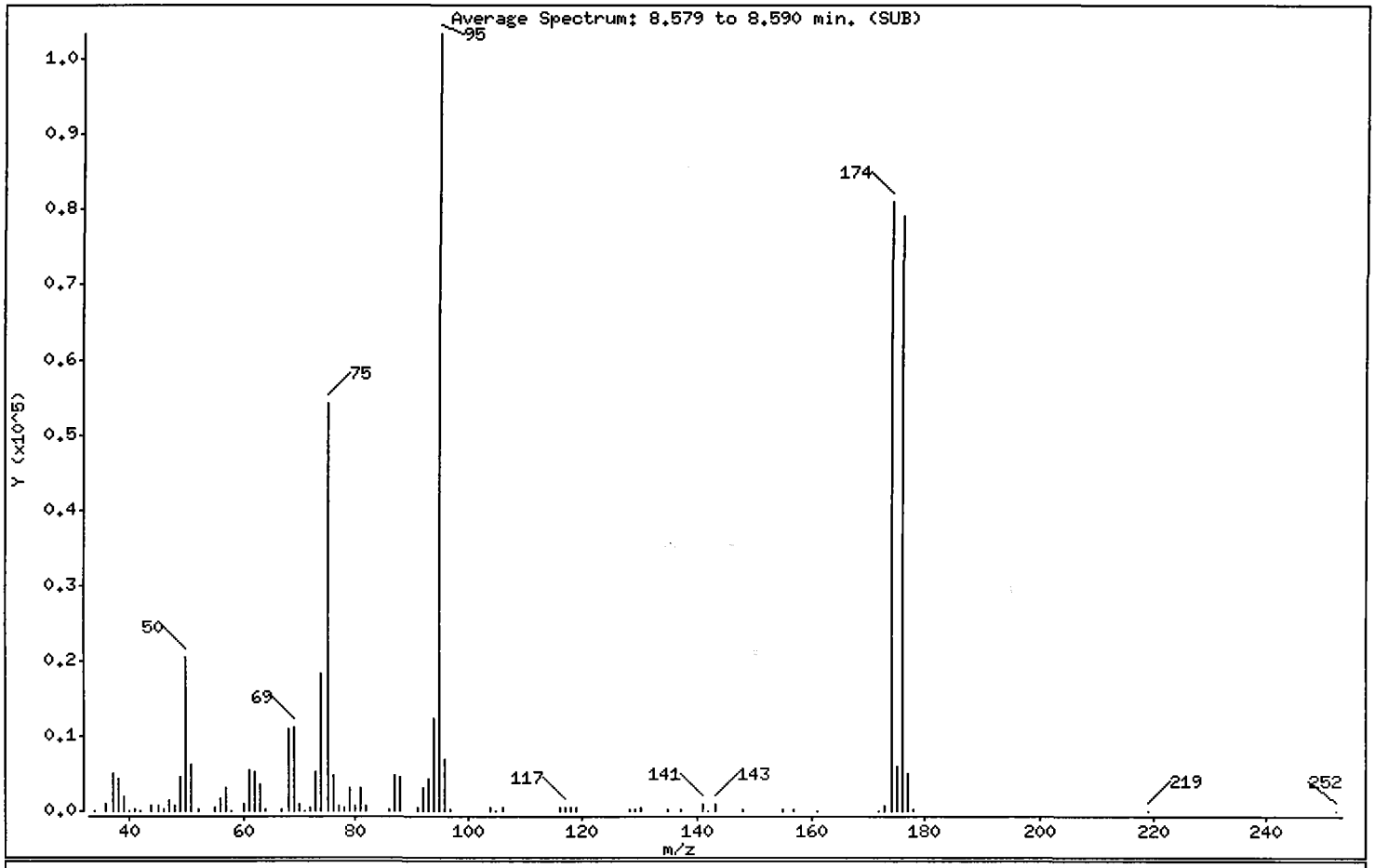
Sample Info: BFB0303,BFB0303,,1,03MAR10,,

Operator: ar

Column phase: RTX502.2

Column diameter: 0.18

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	19.66
75	30.00 - 66.00% of mass 95	52.33
96	5.00 - 9.00% of mass 95	6.72
173	Less than 2.00% of mass 174	0.73 (0.93)
174	50.00 - 101.00% of mass 95	78.28
175	4.00 - 9.00% of mass 174	5.78 (7.39)
176	93.00 - 101.00% of mass 174	76.44 (97.66)
177	5.00 - 9.00% of mass 176	4.85 (6.34)

Data File: /chem1/nt10.i/03MAR10.b/bfb0303.d

Date : 03-MAR-2010 11:09

Client ID: BFB0303 Instrument: nt10.i

Sample Info: BFB0303,BFB0303,,1,03MAR10,,

Operator: ar

Column phase: RTX502.2 Column diameter: 0.18

Data File: bfb0303.d
Spectrum: Average Spectrum: 8.579 to 8.590 min. (SUB)
Location of Maximum: 95.00
Number of points: 80

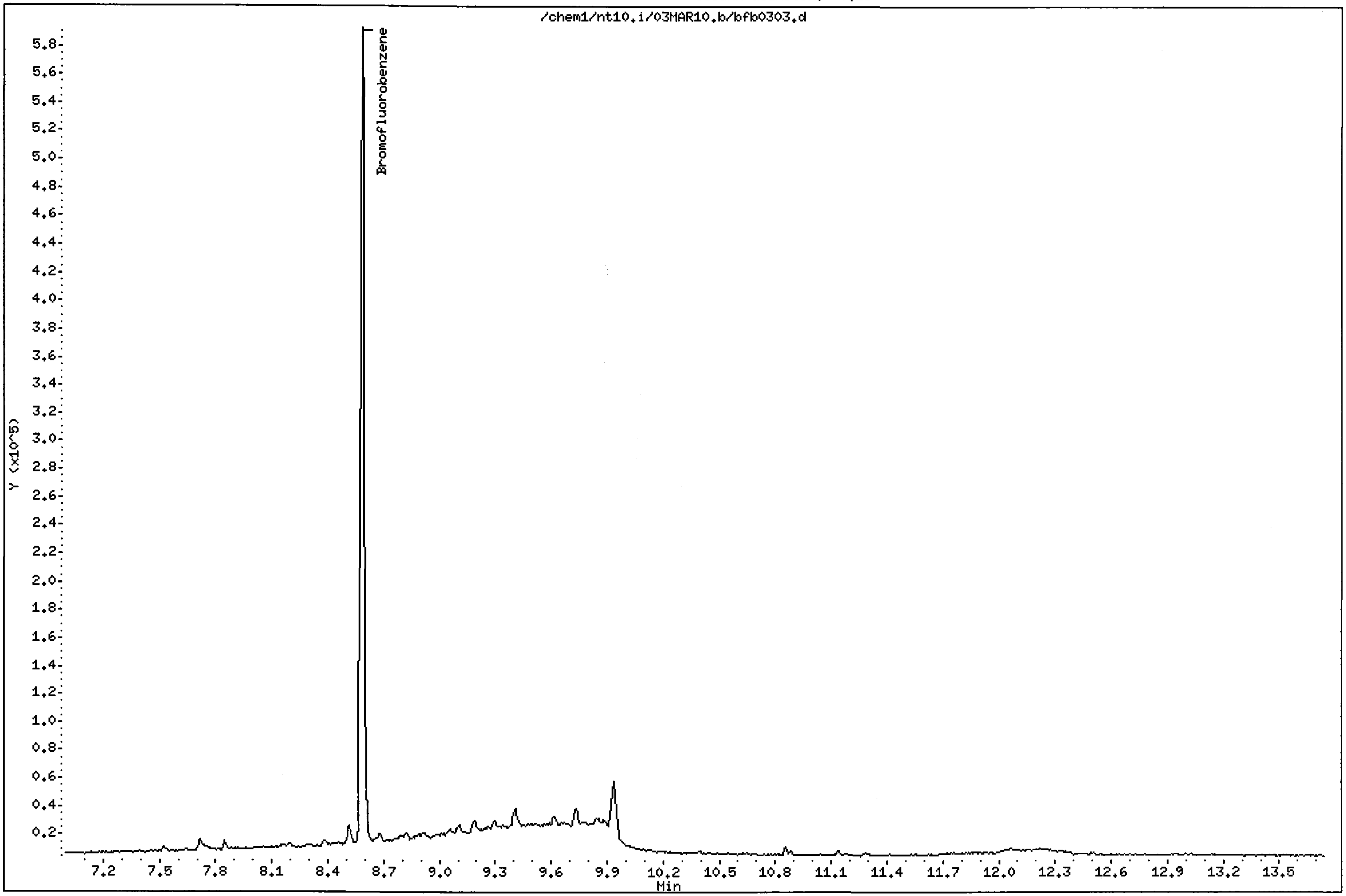
m/z	Y	m/z	Y	m/z	Y	m/z	Y
34.00	54	60.00	1009	86.00	297	137.00	137
36.00	861	61.00	5466	87.00	4687	141.00	909
37.00	5051	62.00	5142	88.00	4493	142.00	50
38.00	4355	63.00	3608	91.00	359	143.00	986
39.00	1819	64.00	308	92.00	3057	148.00	241
40.00	62	67.00	302	93.00	4293	155.00	274
41.00	268	68.00	10914	94.00	12352	157.00	122
42.00	34	69.00	11272	95.00	103384	161.00	52
44.00	770	70.00	901	96.00	6944	172.00	69
45.00	740	71.00	59	97.00	205	173.00	753
46.00	245	72.00	575	104.00	443	174.00	80928
47.00	1331	73.00	5155	105.00	111	175.00	5981
48.00	669	74.00	18208	106.00	452	176.00	79032
49.00	4613	75.00	54096	116.00	368	177.00	5010
50.00	20328	76.00	4714	117.00	581	178.00	131
51.00	6247	77.00	660	118.00	382	219.00	105
52.00	300	78.00	422	119.00	471	252.00	17
55.00	468	79.00	2986	128.00	345		
56.00	1638	80.00	814	129.00	135		
57.00	3025	81.00	3030	130.00	364		
58.00	109	82.00	633	135.00	147		

Data File: /chem1/nt10.i/03MAR10.b/bfb0303.d
Date : 03-MAR-2010 11:09
Client ID: BFB0303
Sample Info: BFB0303,BFB0303,,1,03MAR10,,

Column phase: RTX502.2

Instrument: nt10.i

Operator: ar
Column diameter: 0.18



PC 31/10/10

Data File: /chem1/nt5.i/09MAR10A.b/03091019.d

Date : 09-MAR-2010 18:25

Client ID: BFB0309A

Instrument: nt5.i

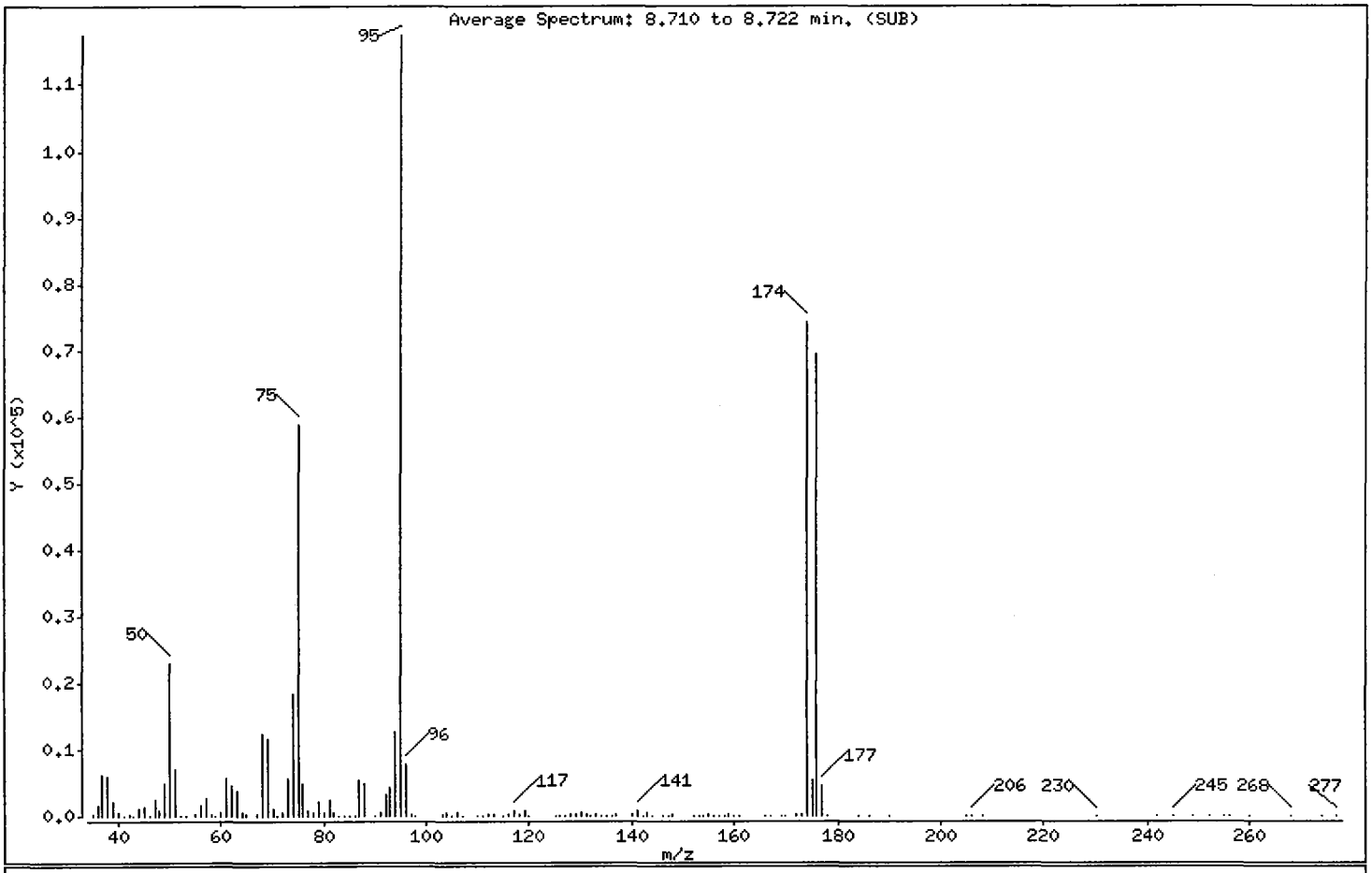
Sample Info: BFB0309A,BFB0309A,1,09MAR10A,

Operator: PC

Column phase: RTXVMS

Column diameter: 0.18

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	19.52
75	30.00 - 66.00% of mass 95	50.10
96	5.00 - 9.00% of mass 95	6.71
173	Less than 2.00% of mass 174	0.22 (0.34)
174	50.00 - 101.00% of mass 95	63.14
175	4.00 - 9.00% of mass 174	4.60 (7.29)
176	93.00 - 101.00% of mass 174	59.01 (93.46)
177	5.00 - 9.00% of mass 176	3.81 (6.45)

Data File: /chem1/nt5.i/09MAR10A.b/03091019.d

Date : 09-MAR-2010 18:25

Client ID: BFB0309A

Instrument: nt5.i

Sample Info: BFB0309A,BFB0309A,1,09MAR10A,

Operator: PC

Column phase: RTXVMS

Column diameter: 0.18

Data File: 03091019.d

Spectrum: Average Spectrum: 8.710 to 8.722 min. (SUB)

Location of Maximum: 95.00

Number of points: 135

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	273	71.00	111	112.00	158	157.00	122
36.00	1572	72.00	667	113.00	154	158.00	111
37.00	6244	73.00	5572	115.00	126	159.00	305
38.00	5977	74.00	18272	116.00	331	160.00	68
39.00	2273	75.00	58824	117.00	741	161.00	79
40.00	624	76.00	4929	118.00	344	166.00	37
41.00	11	77.00	879	119.00	700	167.00	58
42.00	158	78.00	592	120.00	54	169.00	47
43.00	115	79.00	2186	125.00	87	170.00	49
44.00	1100	80.00	596	126.00	95	172.00	201
45.00	1256	81.00	2343	127.00	43	173.00	255
46.00	49	82.00	557	128.00	304	174.00	74136
47.00	2468	83.00	134	129.00	233	175.00	5407
48.00	903	84.00	112	130.00	493	176.00	69288
49.00	4867	85.00	92	131.00	195	177.00	4472
50.00	22912	86.00	125	132.00	45	178.00	105
51.00	6970	87.00	5393	133.00	137	184.00	54
52.00	53	88.00	4893	134.00	66	186.00	52
53.00	35	90.00	47	135.00	102	190.00	59
55.00	224	91.00	428	136.00	42	205.00	34
56.00	1753	92.00	3223	137.00	229	206.00	38
57.00	2602	93.00	4327	140.00	144	208.00	34
58.00	209	94.00	12786	141.00	798	230.00	52
59.00	51	95.00	117416	142.00	104	242.00	33
60.00	621	96.00	7880	143.00	502	245.00	103
61.00	5541	97.00	231	144.00	94	249.00	42
62.00	4498	98.00	35	146.00	107	252.00	38
63.00	3678	103.00	266	147.00	67	255.00	39
64.00	483	104.00	553	148.00	292	256.00	39
65.00	174	105.00	103	152.00	56	260.00	35
67.00	348	106.00	545	153.00	57	268.00	42
68.00	12352	107.00	78	154.00	122	274.00	35
69.00	11695	110.00	52	155.00	200	277.00	42
70.00	1081	111.00	40	156.00	77		

Data File: /chem1/nt5.i/09MAR10A.b/03091019.d

Date : 09-MAR-2010 18:25

Client ID: BFB0309A

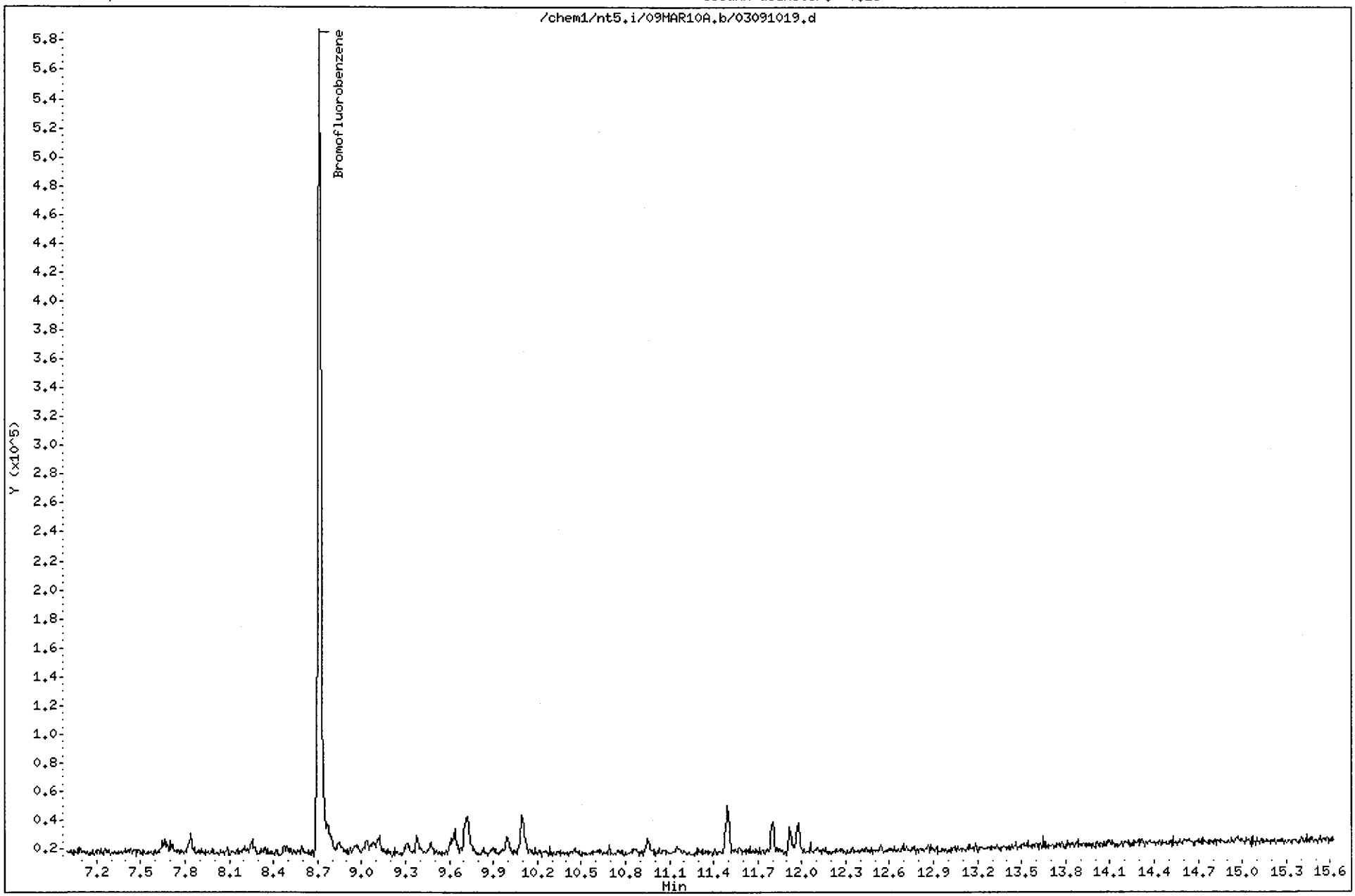
Instrument: nt5.i

Sample Info: BFB0309A,BFB0309A,1,09MAR10A,

Operator: PC

Column phase: RTXVMS

Column diameter: 0.18



ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: MB-030310**
Page 1 of 1 **METHOD BLANK**

Lab Sample ID: MB-030310
LIMS ID: 10-4943
Matrix: Water
Data Release Authorized:
Reported: 03/11/10

QC Report No: QL85-Floyd-Snider
Project: Lora Lakes Apartments
POS-LLA
Date Sampled: NA
Date Received: NA

Instrument/Analyst: NT10/AAR
Date Analyzed: 03/03/10 14:06

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.2	< 0.2	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	102%

Analytical Resources, Inc.

8260C

AR 3/4/2010

Data file : /chem1/nt10.i/03MAR10.b/mb0303.d
Lab Smp Id: MB0303 Client Smp ID: MB0303
Inj Date : 03-MAR-2010 14:06
Operator : ar Inst ID: nt10.i
Smp Info : MB0303,10,10,0
Misc Info : 10-
Comment :
Method : /chem1/nt10.i/03MAR10.b/82600122L.m
Meth Date : 04-Mar-2010 11:32 aron Quant Type: ISTD
Cal Date : 22-FEB-2010 15:12 Cal File: 6000222.d
Als bottle: 1 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: voa.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	10.00000	Purge Volume (mL)
Sa	10.00000	Sample Amount (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
1 Dichlorodifluoromethane	85	Compound Not Detected.					
2 Chloromethane	50	Compound Not Detected.					
3 Vinyl Chloride	62	Compound Not Detected.					
4 Bromomethane	94	1.898	1.892	(0.360)	7786	0.44691	0.4469(M)
5 Chloroethane	64	Compound Not Detected.					
6 Trichlorofluoromethane	101	Compound Not Detected.					
8 Acrolein	56	Compound Not Detected.					
9 112Trichloro122Trifluoroethane	101	Compound Not Detected.					
10 Acetone	43	Compound Not Detected.					
11 1,1-Dichloroethene	96	Compound Not Detected.					
12 Bromoethane	108	Compound Not Detected.					
13 Iodomethane	142	Compound Not Detected.					
14 Methylene Chloride	84	3.252	3.252	(0.617)	3792	0.20199	0.2020(Q)
15 Acrylonitrile	53	Compound Not Detected.					
16 Methyl tert butyl ether	73	Compound Not Detected.					
17 Carbon Disulfide	76	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
	18 Trans-1,2-Dichloroethene	96	Compound Not Detected.					
	20 Vinyl Acetate	43	Compound Not Detected.					
	21 1,1-Dichloroethane	63	Compound Not Detected.					
	22 2-Butanone	72	Compound Not Detected.					
	23 2,2-Dichloropropane	77	Compound Not Detected.					
	24 Cis-1,2-Dichloroethene	96	Compound Not Detected.					
*	25 Pentafluorobenzene	168	5.272	5.272	(1.000)	452862	10.0000	
	26 Chloroform	83	Compound Not Detected.					
	27 Bromochloromethane	128	Compound Not Detected.					
$	28 Dibromofluoromethane	111	4.885	4.885	(0.927)	188365	9.97343	9.973
	29 1,1,1-Trichloroethane	97	Compound Not Detected.					
	30 1,1-Dichloropropene	75	Compound Not Detected.					
	31 Carbon Tetrachloride	117	Compound Not Detected.					
$	32 d4-1,2-Dichloroethane	65	5.289	5.290	(1.003)	169331	10.1951	10.195
	33 1,2-Dichloroethane	62	Compound Not Detected.					
	34 Benzene	78	Compound Not Detected.					
*	35 1,4-Difluorobenzene	114	5.659	5.659	(1.000)	731344	10.0000	
	36 Trichloroethene	95	Compound Not Detected.					
	37 1,2-Dichloropropane	63	Compound Not Detected.					
	38 Bromodichloromethane	83	Compound Not Detected.					
	39 Dibromomethane	93	Compound Not Detected.					
	40 2-Chloroethyl Vinyl Ether	63	Compound Not Detected.					
	41 4-Methyl-2-Pentanone	58	Compound Not Detected.					
	42 Cis 1,3-dichloropropene	75	Compound Not Detected.					
$	43 d8-Toluene	98	6.633	6.633	(1.172)	905283	10.1587	10.159
	44 Toluene	92	Compound Not Detected.					
	45 Trans 1,3-Dichloropropene	75	Compound Not Detected.					
	47 1,1,2-Trichloroethane	97	Compound Not Detected.					
	48 1,3-Dichloropropane	76	Compound Not Detected.					
	49 Tetrachloroethene	166	Compound Not Detected.					
	50 Chlorodibromomethane	129	Compound Not Detected.					
	51 1,2-Dibromoethane	107	Compound Not Detected.					
*	52 d5-Chlorobenzene	117	7.714	7.720	(1.000)	632400	10.0000	
	53 Chlorobenzene	112	Compound Not Detected.					
	54 Ethyl Benzene	91	Compound Not Detected.					
	55 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
	56 m,p-xylene	106	Compound Not Detected.					
	58 o-Xylene	106	Compound Not Detected.					
	59 Styrene	104	Compound Not Detected.					
	60 Isopropyl Benzene	105	Compound Not Detected.					
	61 Bromoform	173	Compound Not Detected.					
	62 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
$	63 4-Bromofluorobenzene	95	8.585	8.585	(1.113)	266556	10.3897	10.390
	64 1,2,3-Trichloropropane	110	Compound Not Detected.					
	65 Trans-1,4-Dichloro 2-Butene	53	Compound Not Detected.					
	66 N-Propyl Benzene	91	Compound Not Detected.					
	67 Bromobenzene	156	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
68	1,3,5-Trimethyl Benzene	105	Compound Not Detected.					
69	2-Chloro Toluene	91	Compound Not Detected.					
70	4-Chloro Toluene	91	Compound Not Detected.					
71	T-Butyl Benzene	119	Compound Not Detected.					
72	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
73	S-Butyl Benzene	105	Compound Not Detected.					
74	4-Isopropyl Toluene	119	Compound Not Detected.					
75	1,3-Dichlorobenzene	146	Compound Not Detected.					
* 76	d4-1,4-Dichlorobenzene	152	9.404	9.410	(1.000)	239199	10.0000	
77	1,4-Dichlorobenzene	146	Compound Not Detected.					
78	N-Butyl Benzene	91	Compound Not Detected.					
$ 79	d4-1,2-Dichlorobenzene	152	9.728	9.734	(1.034)	193408	10.3971	10.397
80	1,2-Dichlorobenzene	146	Compound Not Detected.					
81	1,2-Dibromo 3-Chloropropane	75	Compound Not Detected.					
82	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
83	Hexachloro 1,3-Butadiene	225	10.850	10.855	(1.154)	2333	0.26359	0.2636(Q)
84	Naphthalene	128	11.140	11.140	(1.185)	6813	0.33714	0.3371
85	1,2,3-Trichlorobenzene	180	11.276	11.282	(1.199)	1560	0.15474	0.1547(Q)

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: mb0303.d
Lab Smp Id: MB0303
Analysis Type: VOA
Quant Type: ISTD
Operator: ar
Method File: /chem1/nt10.i/03MAR10.b/82600122L.m
Misc Info: 10-

Calibration Date: 03-MAR-2010
Calibration Time: 12:36
Client Smp ID: MB0303
Level: LOW
Sample Type: WATER

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
25 Pentafluorobenzen	456228	228114	912456	452862	-0.74
35 1,4-Difluorobenze	740651	370326	1481302	731344	-1.26
52 d5-Chlorobenzene	686240	343120	1372480	632400	-7.85
76 d4-1,4-Dichlorobe	249963	124982	499926	239199	-4.31

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
25 Pentafluorobenzen	5.27	4.77	5.77	5.27	0.00
35 1,4-Difluorobenze	5.66	5.16	6.16	5.66	0.00
52 d5-Chlorobenzene	7.72	7.22	8.22	7.71	-0.07
76 d4-1,4-Dichlorobe	9.40	8.90	9.90	9.40	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: MB0303
Level: LOW
Data Type: MS DATA
SpikeList File: allspike.spk
Sublist File: voa.sub
Method File: /chem1/nt10.i/03MAR10.b/82600122L.m
Misc Info: 10-

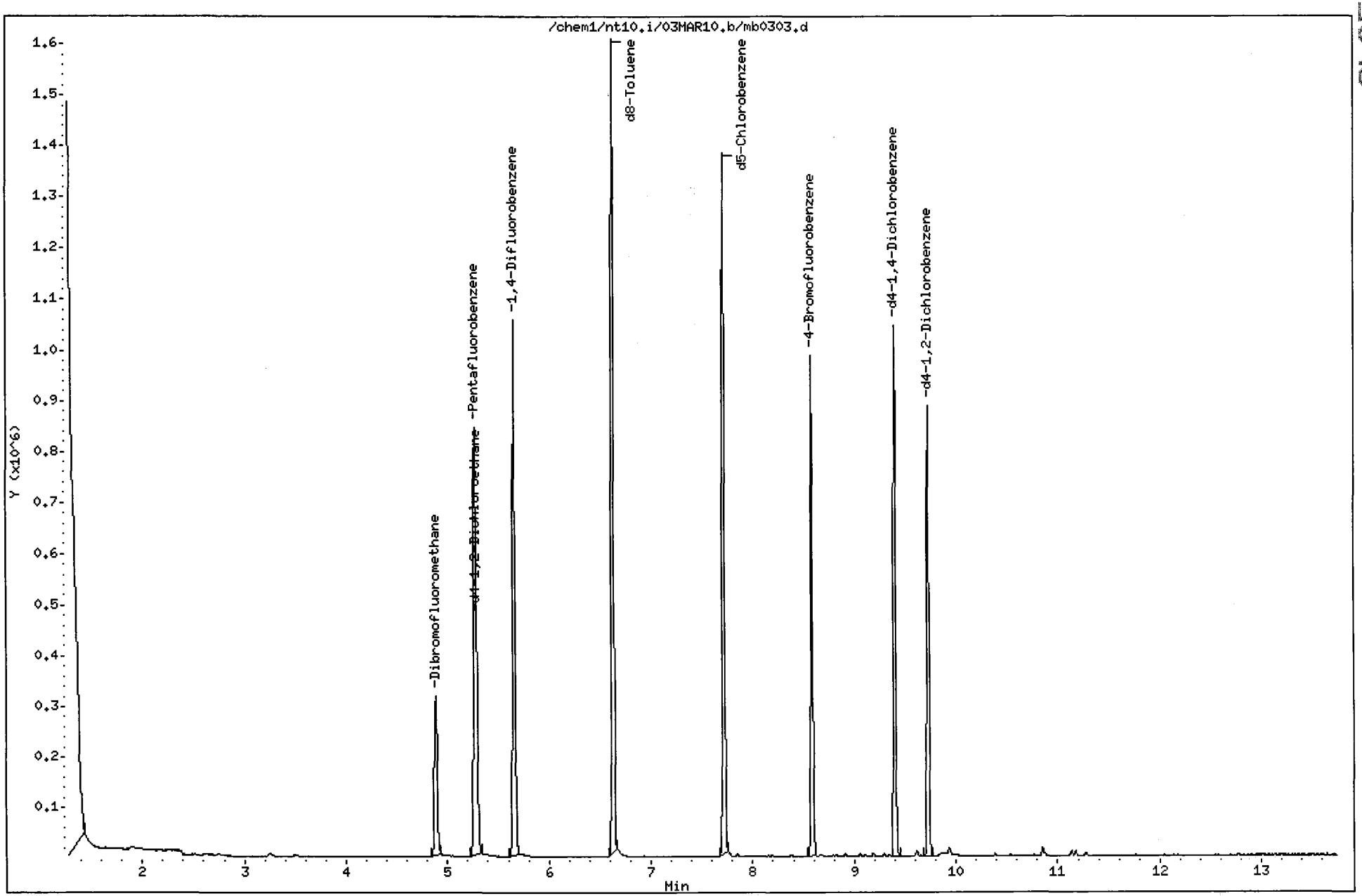
Client SDG: 03MAR10
Fraction: VOA
Client Smp ID: MB0303
Operator: ar
SampleType: BLANK
Quant Type: ISTD

SURROGATE COMPOUND	AMOUNT ADDED ug/L	AMOUNT RECOVERED ug/L	% RECOVERED	LIMITS
$ 28 Dibromofluorometha	10.000	9.973	99.73	60-130
$ 32 d4-1,2-Dichloroeth	10.000	10.195	101.95	80-143
$ 43 d8-Toluene	10.000	10.159	101.59	80-120
$ 63 4-Bromofluorobenze	10.000	10.390	103.90	80-120
$ 79 d4-1,2-Dichloroben	10.000	10.397	103.97	80-120

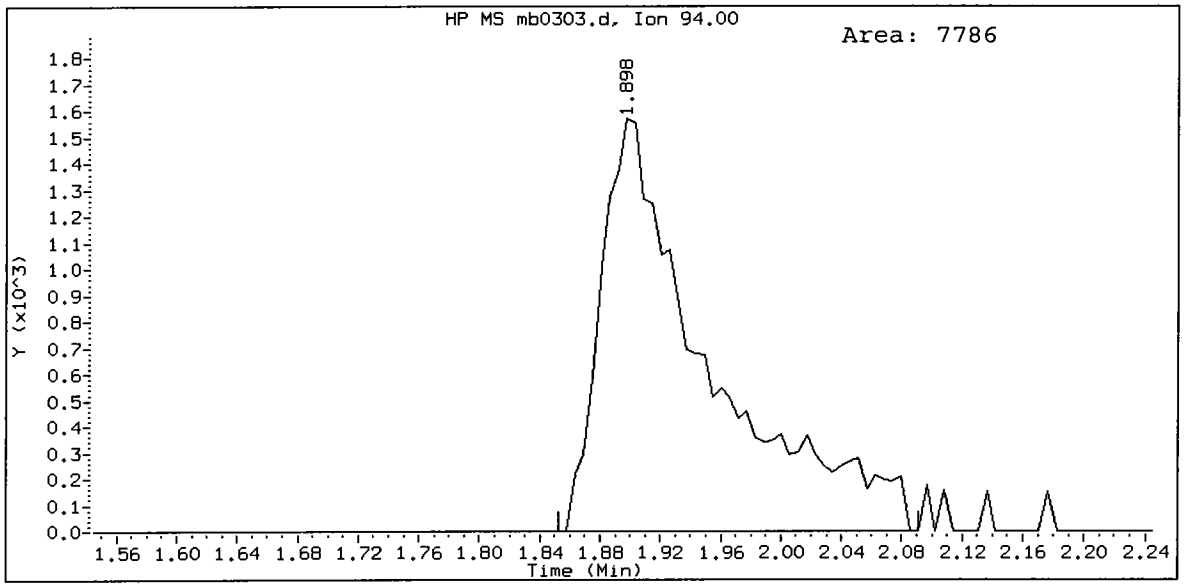
Data File: /chem1/nt10.i/03MAR10.b/mb0303.d
Date : 03-MAR-2010 14:06
Client ID: MB0303
Sample Info: MB0303,10,10,0

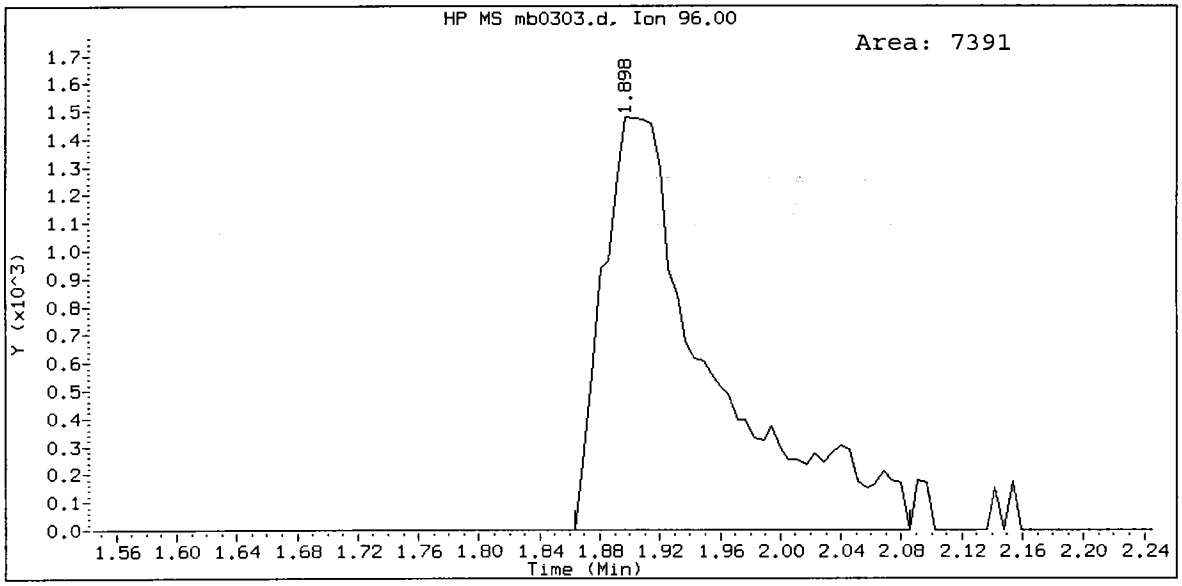
Instrument: nt10.i
Operator: ar
Column diameter: 0.18

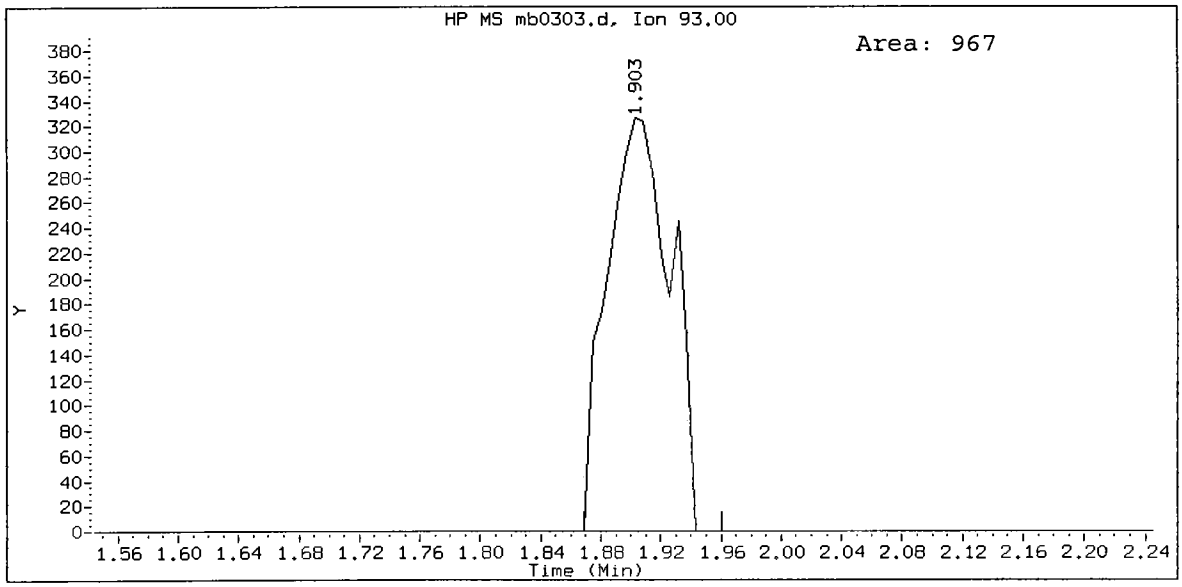
Column phase: RTX502.2



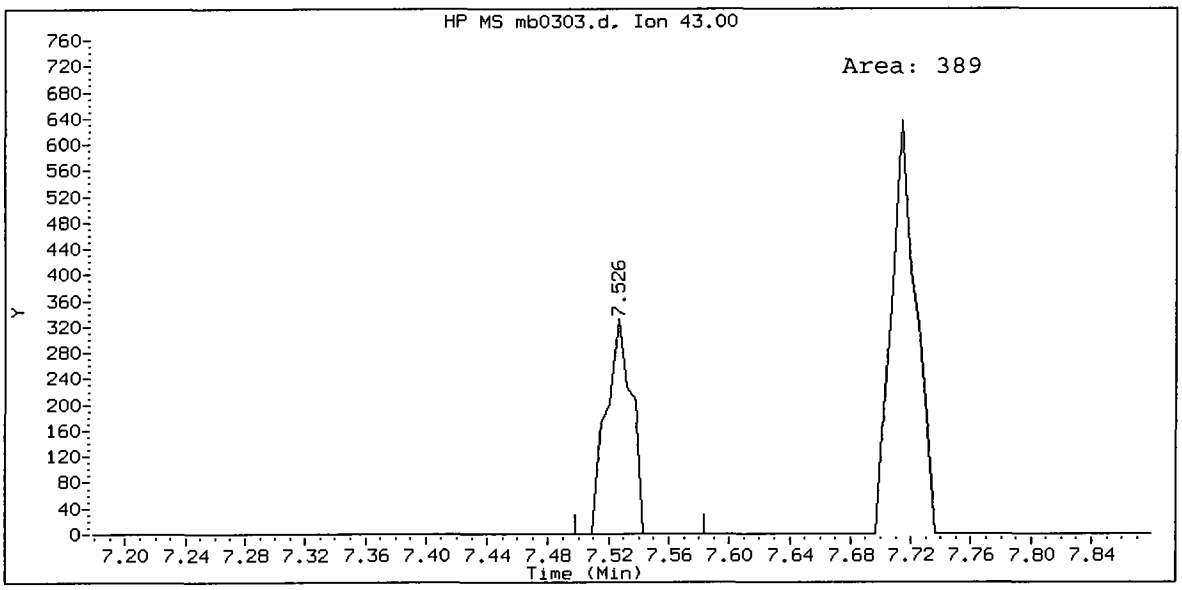
MB0303, /chem1/nt10.i/03MAR10.b/mb0303.d
Bromomethane Amount: 0.45

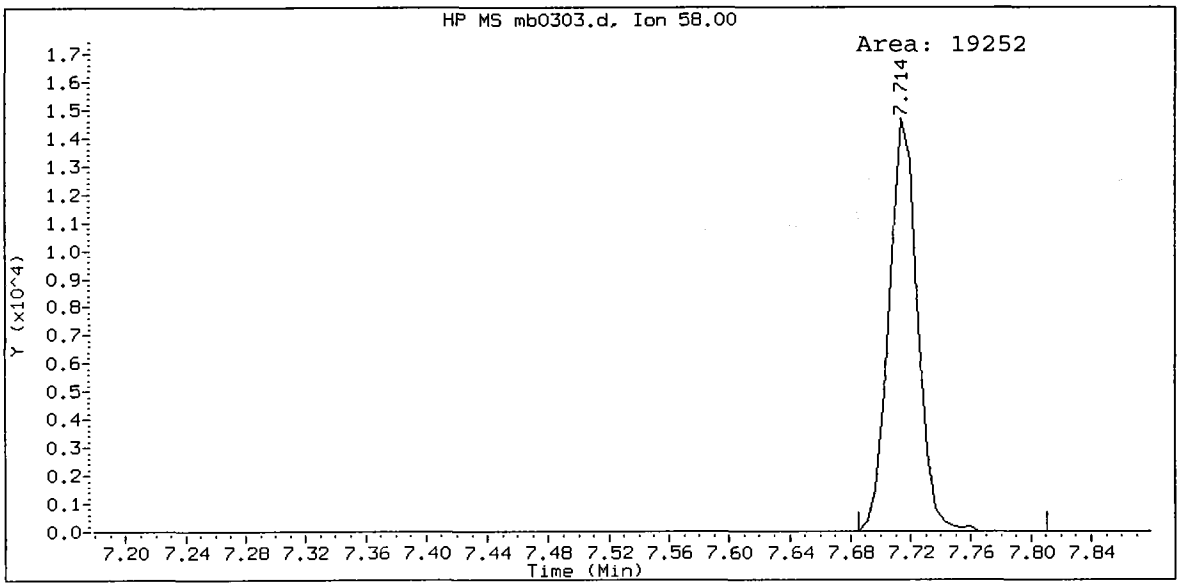


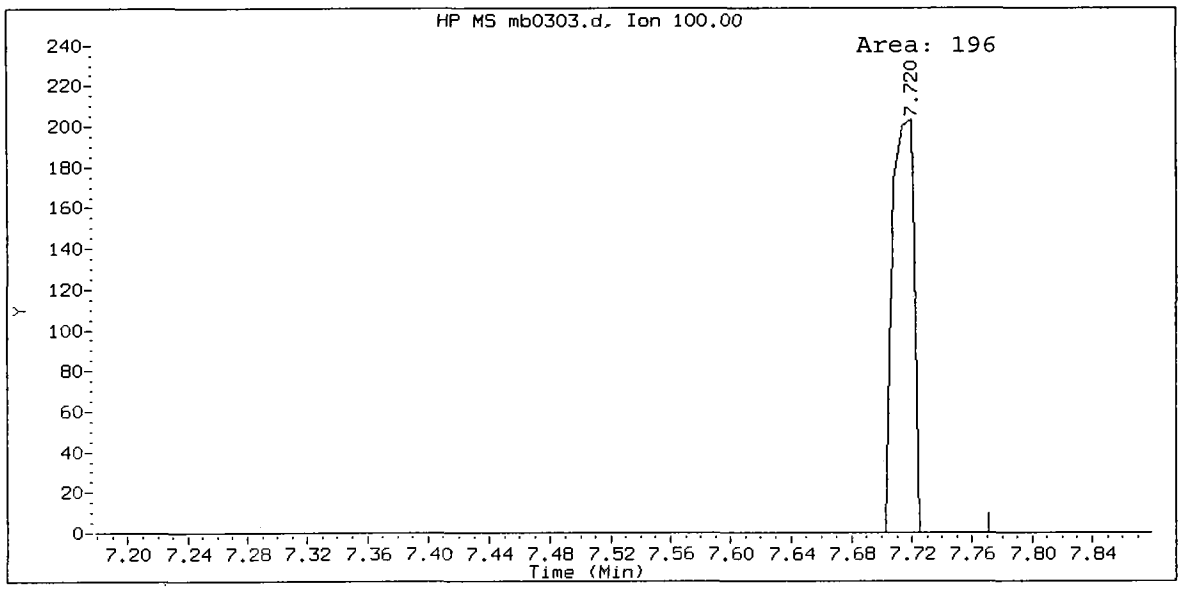




MB0303, /chem1/nt10.i/03MAR10.b/mb0303.d
2-Hexanone Amount: 0.07







ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: CB31A022610GRAB**
Page 1 of 1 **MATRIX SPIKE**

Lab Sample ID: QL85A
LIMS ID: 10-4943
Matrix: Water
Data Release Authorized:
Reported: 03/11/10

QC Report No: QL85-Floyd-Snider
Project: Lora Lakes Apartments
POS-LLA
Date Sampled: 02/26/10
Date Received: 02/26/10

Instrument/Analyst: NT10/AAR
Date Analyzed: 03/03/10 19:19

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.2	---	

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	106%

AR 3/4/2010

Analytical Resources, Inc.

8260C

Data file : /chem1/nt10.i/03MAR10.b/ql85ams.d
Lab Smp Id: QL85A Client Smp ID: CB31A022610GRAB MS
Inj Date : 03-MAR-2010 19:19
Operator : ar Inst ID: nt10.i
Smp Info : QL85A,10,10,0,MS
Misc Info : 10-4943
Comment :
Method : /chem1/nt10.i/03MAR10.b/82600122L.m
Meth Date : 04-Mar-2010 12:01 aron Quant Type: ISTD
Cal Date : 22-FEB-2010 15:12 Cal File: 6000222.d
Als bottle: 1 QC Sample: MS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: voa.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	10.00000	Purge Volume (mL)
Sa	10.00000	Sample Amount (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
1 Dichlorodifluoromethane	85	1.385	1.391	(0.263)	147019	12.6627	12.663
2 Chloromethane	50	1.539	1.551	(0.292)	158511	9.12698	9.127(M)
3 Vinyl Chloride	62	1.607	1.613	(0.305)	226136	10.9514	10.951(Q)
4 Bromomethane	94	1.886	1.892	(0.358)	161550	9.07092	9.071(Q)
5 Chloroethane	64	2.006	2.006	(0.380)	169722	10.4667	10.467(Q)
6 Trichlorofluoromethane	101	2.125	2.131	(0.403)	318526	10.9744	10.974
8 Acrolein	56	2.990	3.002	(0.567)	4110	3.08408	3.084
9 112Trichloro122Trifluoroethane	101	2.666	2.672	(0.506)	202970	10.4796	10.480(Q)
10 Acetone	43	3.332	3.337	(0.632)	26835	12.5810	12.581
11 1,1-Dichloroethene	96	2.609	2.615	(0.495)	250403	10.8696	10.870(Q)
12 Bromoethane	108	2.882	2.882	(0.547)	145330	10.3369	10.337
13 Iodomethane	142	2.740	2.746	(0.520)	255189	8.19613	8.196
14 Methylene Chloride	84	3.252	3.252	(0.617)	204318	10.6471	10.647(Q)
15 Acrylonitrile	53	4.089	4.089	(0.775)	25200	9.27675	9.277
16 Methyl tert butyl ether	73	3.554	3.554	(0.674)	688440	20.3239	20.324(M)
17 Carbon Disulfide	76	2.615	2.615	(0.496)	755090	10.0101	10.010

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
	18 Trans-1,2-Dichloroethene	96	3.417	3.417	(0.648)	259306	10.7122	10.712(Q)
	20 Vinyl Acetate	43	4.282	4.288	(0.812)	156059	7.28546	7.285
	21 1,1-Dichloroethane	63	4.020	4.026	(0.763)	420746	10.6688	10.669
	22 2-Butanone	72	4.988	4.988	(0.946)	27171	19.8051	19.805(R)
	23 2,2-Dichloropropane	77	4.584	4.590	(0.869)	132587	8.44937	8.449(Q)
	24 Cis-1,2-Dichloroethene	96	4.498	4.498	(0.853)	277415	10.2721	10.272(Q)
*	25 Pentafluorobenzene	168	5.272	5.272	(1.000)	462920	10.0000	
	26 Chloroform	83	4.737	4.737	(0.899)	457569	10.8906	10.891
	27 Bromochloromethane	128	4.663	4.664	(0.884)	186614	20.3432	20.343(Q)
$	28 Dibromofluoromethane	111	4.880	4.885	(0.926)	195277	10.1148	10.115
	29 1,1,1-Trichloroethane	97	4.885	4.885	(0.927)	335933	10.2792	10.279
	30 1,1-Dichloropropene	75	4.982	4.982	(0.880)	406789	10.8546	10.855(Q)
	31 Carbon Tetrachloride	117	4.823	4.823	(0.852)	280876	10.2446	10.245(Q)
$	32 d4-1,2-Dichloroethane	65	5.289	5.290	(1.003)	179881	10.5950	10.595
	33 1,2-Dichloroethane	62	5.341	5.341	(0.944)	237472	10.4340	10.434(Q)
	34 Benzene	78	5.181	5.181	(0.916)	1124266	10.6189	10.619
*	35 1,4-Difluorobenzene	114	5.659	5.659	(1.000)	754857	10.0000	
	36 Trichloroethene	95	5.619	5.620	(0.993)	322897	11.3821	11.382(Q)
	37 1,2-Dichloropropane	63	6.006	6.007	(1.061)	237481	10.3613	10.361(Q)
	38 Bromodichloromethane	83	6.052	6.052	(1.069)	311101	10.7327	10.733
	39 Dibromomethane	93	5.927	5.933	(1.047)	96526	10.5384	10.538(Q)
	40 2-Chloroethyl Vinyl Ether	63	6.667	6.468	(1.178)	108057	19.8601	19.860(QR)
	41 4-Methyl-2-Pentanone	58	6.945	6.946	(1.227)	38065	9.41507	9.415(Q)
	42 Cis 1,3-dichloropropene	75	6.502	6.502	(1.149)	342237	10.6088	10.609(Q)
$	43 d8-Toluene	98	6.632	6.633	(1.172)	939275	10.2118	10.212
	44 Toluene	92	6.667	6.667	(1.178)	767667	10.6304	10.630
	45 Trans 1,3-Dichloropropene	75	6.963	6.963	(1.230)	250564	10.5631	10.563(Q)
	46 2-Hexanone	43	7.526	7.526	(0.976)	54748	9.16241	9.162
	47 1,1,2-Trichloroethane	97	7.076	7.077	(1.250)	144767	10.2950	10.295(Q)
	48 1,3-Dichloropropane	76	7.264	7.264	(0.942)	267649	10.9055	10.905(Q)
	49 Tetrachloroethene	166	6.928	6.929	(0.898)	323426	10.8646	10.865(Q)
	50 Chlorodibromomethane	129	7.196	7.196	(0.933)	184723	11.2274	11.227(Q)
	51 1,2-Dibromoethane	107	7.355	7.361	(1.300)	131577	10.5351	10.535
*	52 d5-Chlorobenzene	117	7.714	7.720	(1.000)	684793	10.0000	
	53 Chlorobenzene	112	7.725	7.731	(1.001)	793957	11.0314	11.031(Q)
	54 Ethyl Benzene	91	7.748	7.748	(1.004)	1488466	10.8994	10.899(Q)
	55 1,1,1,2-Tetrachloroethane	131	7.771	7.777	(1.007)	225844	10.2559	10.256(Q)
	56 m,p-xylene	106	7.850	7.851	(1.018)	1148908	22.3235	22.323(Q)
	58 o-Xylene	106	8.158	8.158	(1.058)	510603	10.9464	10.946(Q)
	59 Styrene	104	8.192	8.198	(1.062)	786368	10.7135	10.714(Q)
	60 Isopropyl Benzene	105	8.380	8.380	(0.891)	1363608	10.1792	10.179
	61 Bromoform	173	8.215	8.215	(0.874)	83306	10.6191	10.619(Q)
	62 1,1,2,2-Tetrachloroethane	83	8.732	8.733	(0.929)	114872	9.98661	9.987
$	63 4-Bromofluorobenzene	95	8.584	8.585	(1.113)	282648	10.1741	10.174
	64 1,2,3-Trichloropropane	110	8.835	8.835	(0.939)	35568	10.2334	10.233(Q)
	65 Trans-1,4-Dichloro 2-Butene	53	8.863	8.869	(0.942)	23035	10.4729	10.473(Q)
	66 N-Propyl Benzene	91	8.676	8.681	(0.923)	1620274	10.5926	10.593(Q)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
	67 Bromobenzene	156	8.658	8.664	(0.921)	261090	10.1792	10.179(Q)
	68 1,3,5-Trimethyl Benzene	105	8.824	8.824	(0.938)	1047785	10.5876	10.588(Q)
	69 2-Chloro Toluene	91	8.789	8.795	(0.935)	996142	10.3680	10.368
	70 4-Chloro Toluene	91	8.915	8.915	(0.948)	876705	10.5344	10.534(Q)
	71 T-Butyl Benzene	119	9.057	9.057	(0.963)	847898	10.1375	10.138(Q)
	72 1,2,4-Trimethylbenzene	105	9.108	9.108	(0.969)	1001832	10.6975	10.697
	73 S-Butyl Benzene	105	9.188	9.188	(0.977)	1283428	10.4376	10.438(Q)
	74 4-Isopropyl Toluene	119	9.296	9.296	(0.988)	1008287	10.7543	10.754(Q)
	75 1,3-Dichlorobenzene	146	9.347	9.353	(0.994)	465471	10.8189	10.819(Q)
*	76 d4-1,4-Dichlorobenzene	152	9.404	9.410	(1.000)	253771	10.0000	
	77 1,4-Dichlorobenzene	146	9.415	9.421	(1.001)	441543	10.7557	10.756(Q)
	78 N-Butyl Benzene	91	9.615	9.615	(1.022)	877667	10.9533	10.953(Q)
$	79 d4-1,2-Dichlorobenzene	152	9.728	9.734	(1.034)	191059	9.68110	9.681
	80 1,2-Dichlorobenzene	146	9.734	9.740	(1.035)	335755	10.3739	10.374(Q)
	81 1,2-Dibromo 3-Chloropropane	75	10.349	10.355	(1.100)	11217	10.9298	10.930(Q)
	82 1,2,4-Trichlorobenzene	180	10.878	10.878	(1.157)	158607	10.0531	10.053(Q)
	83 Hexachloro 1,3-Butadiene	225	10.850	10.855	(1.154)	87769	9.34706	9.347(Q)
	84 Naphthalene	128	11.134	11.140	(1.184)	209308	9.76269	9.763
	85 1,2,3-Trichlorobenzene	180	11.282	11.282	(1.200)	111408	10.4161	10.416(Q)

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: ql85ams.d
Lab Smp Id: QL85A
Analysis Type: VOA
Quant Type: ISTD
Operator: ar
Method File: /chem1/nt10.i/03MAR10.b/82600122L.m
Misc Info: 10-4943

Calibration Date: 03-MAR-2010
Calibration Time: 12:36
Client Smp ID: CB31A022610GRAB MS
Level: LOW
Sample Type: Water

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
25 Pentafluorobenzen	456228	228114	912456	462920	1.47
35 1,4-Difluorobenze	740651	370326	1481302	754857	1.92
52 d5-Chlorobenzene	686240	343120	1372480	684793	-0.21
76 d4-1,4-Dichlorobe	249963	124982	499926	253771	1.52

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
25 Pentafluorobenzen	5.27	4.77	5.77	5.27	0.00
35 1,4-Difluorobenze	5.66	5.16	6.16	5.66	0.00
52 d5-Chlorobenzene	7.72	7.22	8.22	7.71	-0.08
76 d4-1,4-Dichlorobe	9.40	8.90	9.90	9.40	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Floyd-Snider
Sample Matrix: LIQUID
Lab Smp Id: QL85A
Level: LOW
Data Type: MS DATA
SpikeList File: allspike.spk
Sublist File: voa.sub
Method File: /chem1/nt10.i/03MAR10.b/82600122L.m
Misc Info: 10-4943

Client SDG: QL85
Fraction: VOA
Client Smp ID: CB31A022610GRAB MS
Operator: ar
SampleType: MS
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1 Dichlorodifluorome	10.000	12.663	126.63	59-129
2 Chloromethane	10.000	9.127	91.27	66-123
3 Vinyl Chloride	10.000	10.951	109.51	68-121
4 Bromomethane	10.000	9.071	90.71	55-148
5 Chloroethane	10.000	10.467	104.67	47-155
6 Trichlorofluoromet	10.000	10.974	109.74	70-129
8 Acrolein	10.000	3.084	30.84	24-170
9 112Trichloro122Tri	10.000	10.480	104.80	74-127
10 Acetone	10.000	12.581	125.81	70-130
11 1,1-Dichloroethene	10.000	10.870	108.70	72-120
12 Bromoethane	10.000	10.337	103.37	73-131
13 Iodomethane	10.000	8.196	81.96	34-183
14 Methylene Chloride	10.000	10.647	106.47	70-124
15 Acrylonitrile	10.000	9.277	92.77	71-135
17 Carbon Disulfide	10.000	10.010	100.10	66-129
16 Methyl tert butyl	20.000	20.324	101.62	78-120
18 Trans-1,2-Dichloro	10.000	10.712	107.12	76-120
20 Vinyl Acetate	10.000	7.285	72.85	49-134
21 1,1-Dichloroethane	10.000	10.669	106.69	75-120
22 2-Butanone	10.000	19.805	198.05*	78-131
23 2,2-Dichloropropan	10.000	8.449	84.49	68-121
24 Cis-1,2-Dichloroet	10.000	10.272	102.72	80-120
26 Chloroform	10.000	10.891	108.91	78-120
27 Bromochloromethane	20.000	20.343	101.72	79-120
29 1,1,1-Trichloroeth	10.000	10.279	102.79	76-120
30 1,1-Dichloropropen	10.000	10.855	108.55	78-120
31 Carbon Tetrachlori	10.000	10.245	102.45	70-126
33 1,2-Dichloroethane	10.000	10.434	104.34	78-120
34 Benzene	10.000	10.619	106.19	79-120
36 Trichloroethene	10.000	11.382	113.82	78-120
37 1,2-Dichloropropan	10.000	10.361	103.61	80-120
38 Bromodichlorometha	10.000	10.733	107.33	78-120
39 Dibromomethane	10.000	10.538	105.38	80-120

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
40 2-Chloroethyl Viny	10.000	19.860	198.60*	68-134
41 4-Methyl-2-Pentano	10.000	9.415	94.15	73-131
42 Cis 1,3-dichloropr	10.000	10.609	106.09	78-120
44 Toluene	10.000	10.630	106.30	79-120
45 Trans 1,3-Dichloro	10.000	10.563	105.63	75-120
46 2-Hexanone	10.000	9.162	91.62	75-130
47 1,1,2-Trichloroeth	10.000	10.295	102.95	79-120
48 1,3-Dichloropropan	10.000	10.905	109.05	78-120
49 Tetrachloroethene	10.000	10.865	108.65	72-120
50 Chlorodibromometha	10.000	11.227	112.27	78-120
51 1,2-Dibromoethane	10.000	10.535	105.35	75-120
53 Chlorobenzene	10.000	11.031	110.31	79-120
55 1,1,1,2-Tetrachlor	10.000	10.256	102.56	75-120
54 Ethyl Benzene	10.000	10.899	108.99	78-120
56 m,p-xylene	20.000	22.323	111.62	65-129
58 o-Xylene	10.000	10.946	109.46	76-120
59 Styrene	10.000	10.714	107.14	74-121
60 Isopropyl Benzene	10.000	10.179	101.79	74-120
61 Bromoform	10.000	10.619	106.19	71-120
62 1,1,2,2-Tetrachlor	10.000	9.987	99.87	70-120
64 1,2,3-Trichloropro	10.000	10.233	102.33	73-120
65 Trans-1,4-Dichloro	10.000	10.473	104.73	65-135
66 N-Propyl Benzene	10.000	10.593	105.93	76-121
67 Bromobenzene	10.000	10.179	101.79	72-120
68 1,3,5-Trimethyl Be	10.000	10.588	105.88	74-123
69 2-Chloro Toluene	10.000	10.368	103.68	74-120
70 4-Chloro Toluene	10.000	10.534	105.34	75-120
71 T-Butyl Benzene	10.000	10.138	101.38	73-121
72 1,2,4-Trimethylben	10.000	10.697	106.97	73-124
73 S-Butyl Benzene	10.000	10.438	104.38	75-123
74 4-Isopropyl Toluen	10.000	10.754	107.54	71-125
75 1,3-Dichlorobenzen	10.000	10.819	108.19	72-120
77 1,4-Dichlorobenzen	10.000	10.756	107.56	76-120
78 N-Butyl Benzene	10.000	10.953	109.53	72-124
80 1,2-Dichlorobenzen	10.000	10.374	103.74	75-120
81 1,2-Dibromo 3-Chlo	10.000	10.930	109.30	67-121
82 1,2,4-Trichloroben	10.000	10.053	100.53	71-120
83 Hexachloro 1,3-But	10.000	9.347	93.47	67-124
84 Naphthalene	10.000	9.763	97.63	71-125
85 1,2,3-Trichloroben	10.000	10.416	104.16	61-134

SURROGATE COMPOUND	AMOUNT ADDED ug/L	AMOUNT RECOVERED ug/L	% RECOVERED	LIMITS
$ 28 Dibromofluorometha	10.000	10.115	101.15	60-130

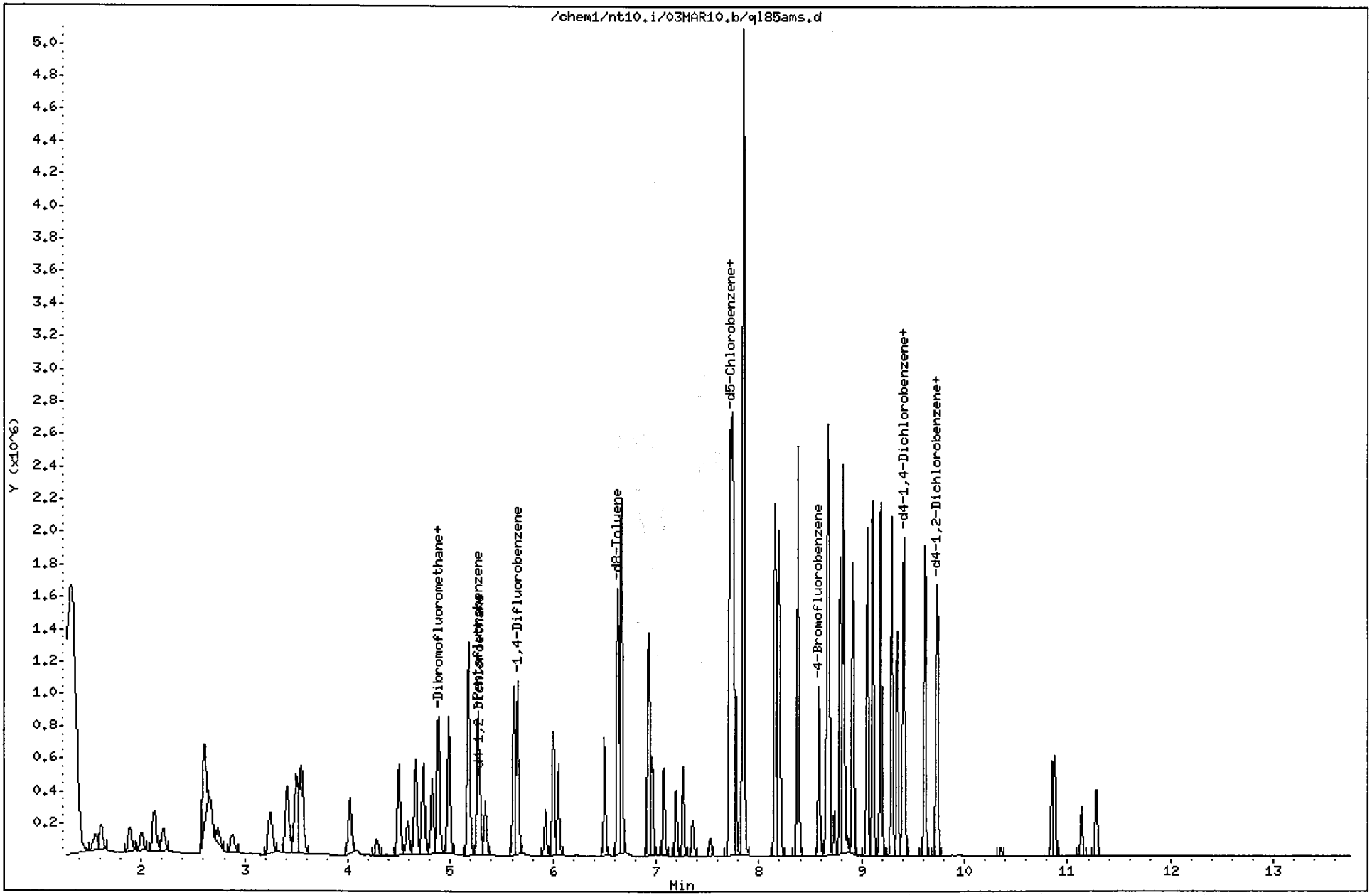
SURROGATE COMPOUND	AMOUNT ADDED ug/L	AMOUNT RECOVERED ug/L	% RECOVERED	LIMITS
$ 32 d4-1,2-Dichloroeth	10.000	10.595	105.95	80-143
$ 43 d8-Toluene	10.000	10.212	102.12	80-120
$ 63 4-Bromofluorobenze	10.000	10.174	101.74	80-120
$ 79 d4-1,2-Dichloroben	10.000	9.681	96.81	80-120

Data File: /chem1/nt10.i/03MAR10.b/ql85ams.d
Date : 03-MAR-2010 19:19
Client ID: CB31A022610GRAB MS
Sample Info: QL85A,10,10,0,MS

Column phase: RTX502.2

Instrument: nt10.i

Operator: ar
Column diameter: 0.18



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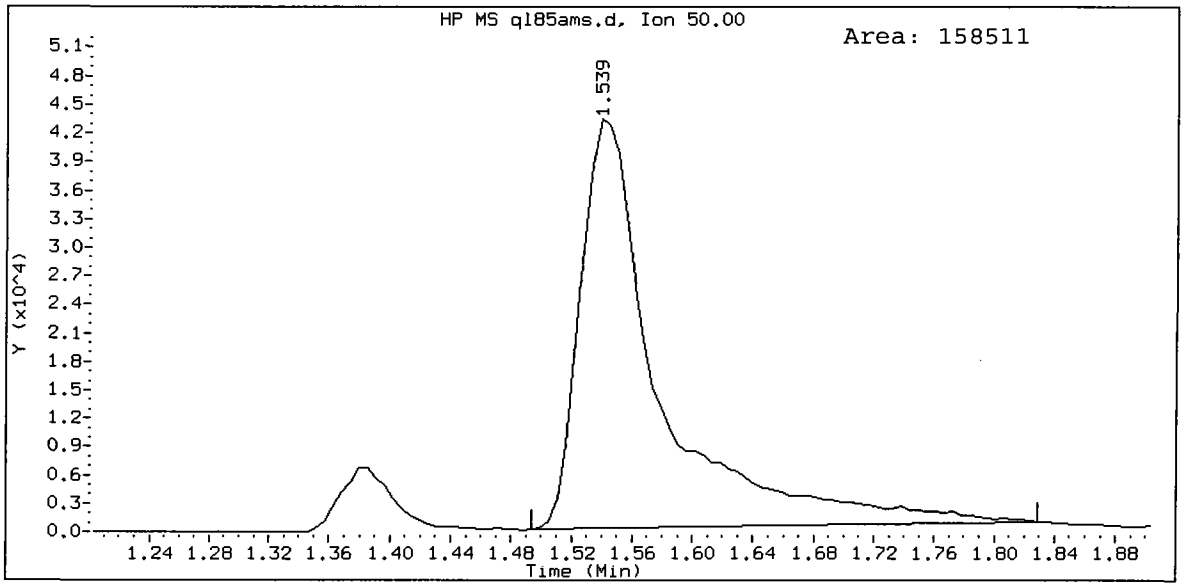
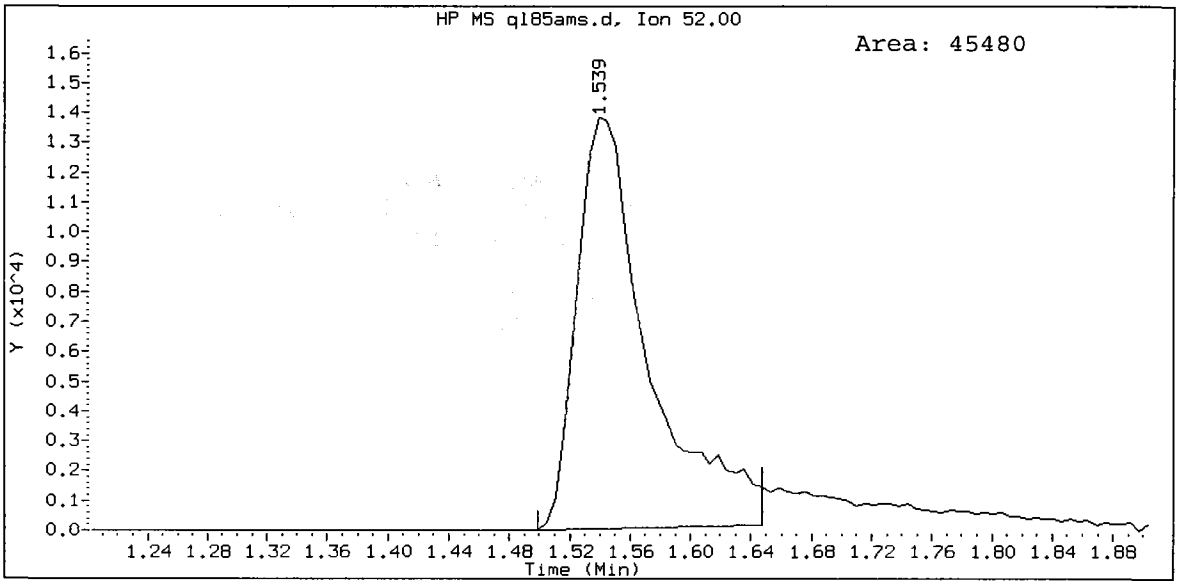
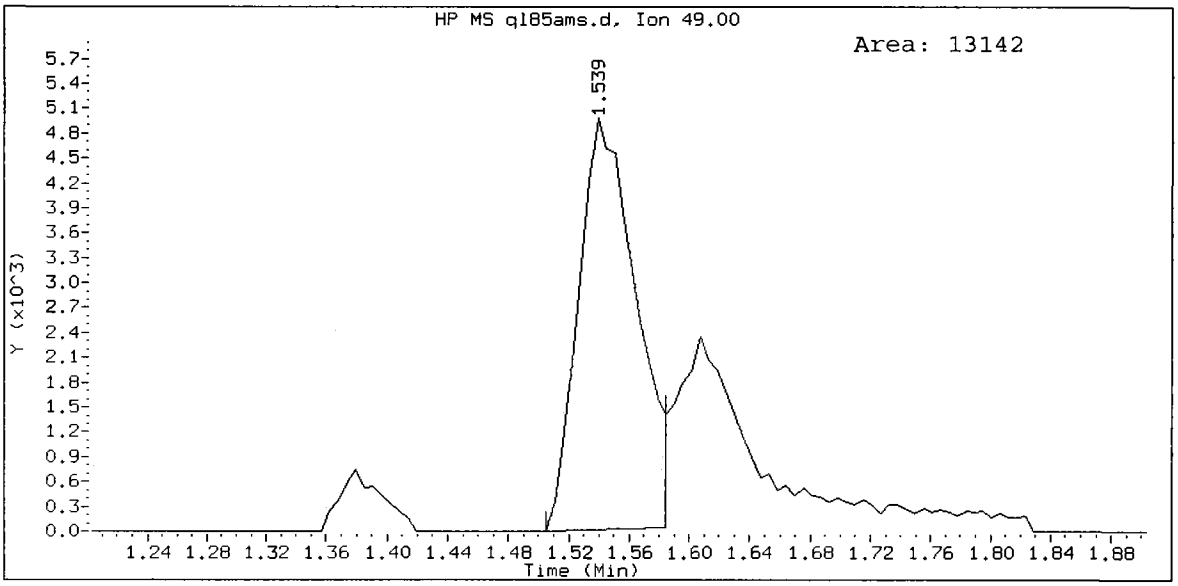
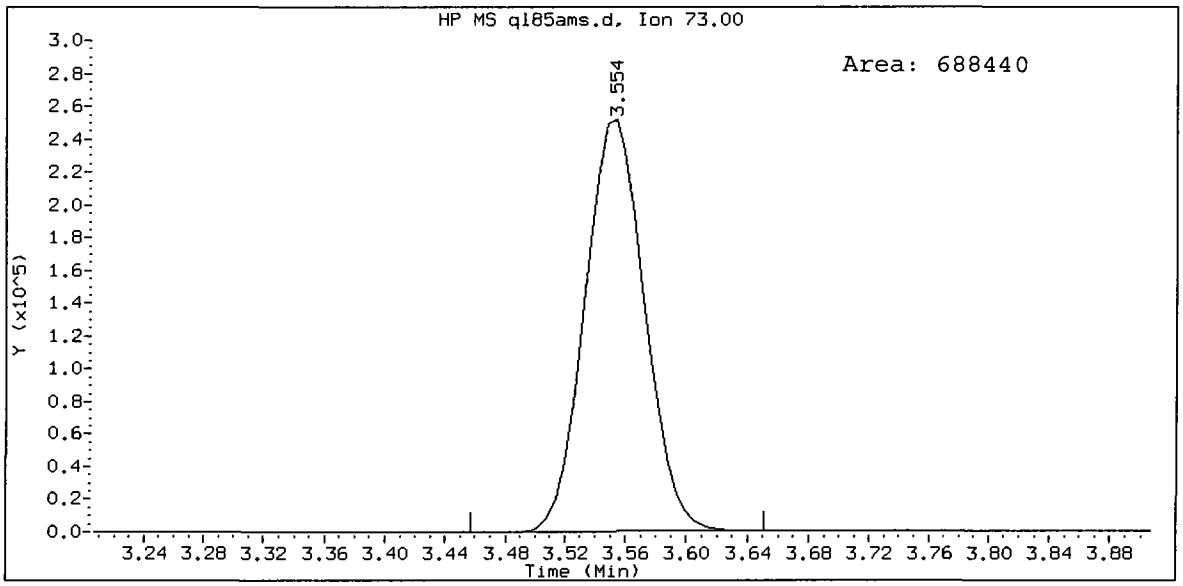
Chloromethane Amount: 9.13

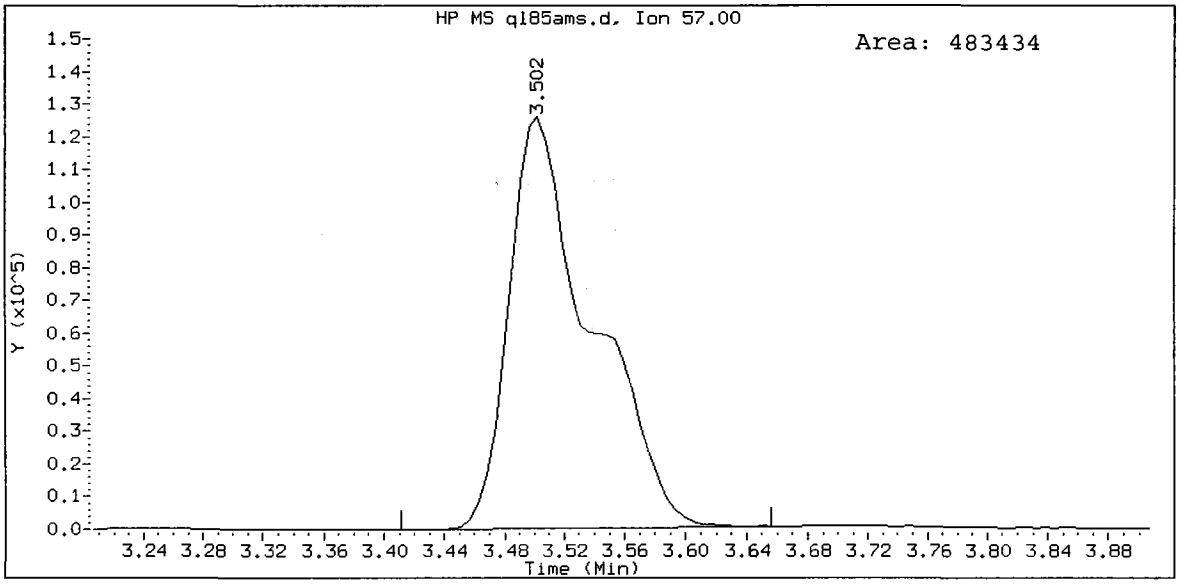


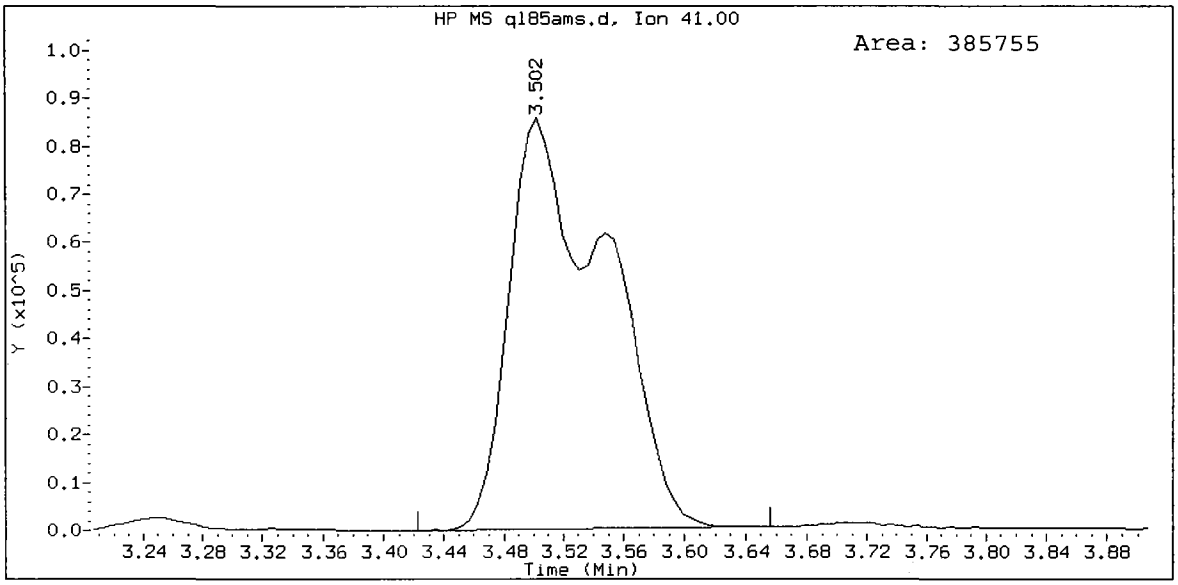




QL85A, /chem1/nt10.i/03MAR10.b/ql85ams.d
Methyl tert butyl ether Amount: 20.32







ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: CB31A022610GRAB**
Page 1 of 1 **MATRIX SPIKE DUP**

Lab Sample ID: QL85A
LIMS ID: 10-4943
Matrix: Water
Data Release Authorized:
Reported: 03/11/10

QC Report No: QL85-Floyd-Snider
Project: Lora Lakes Apartments
POS-LLA
Date Sampled: 02/26/10
Date Received: 02/26/10

Instrument/Analyst: NT10/AAR
Date Analyzed: 03/03/10 19:48

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.2	---	

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	106%

AR 3/4/2010

Analytical Resources, Inc.

8260C

Data file : /chem1/nt10.i/03MAR10.b/ql85amsd.d
Lab Smp Id: QL85A Client Smp ID: CB31A022610GRAB MSD
Inj Date : 03-MAR-2010 19:48
Operator : ar Inst ID: nt10.i
Smp Info : QL85A,10,10,0,MSD
Misc Info : 10-4943
Comment :
Method : /chem1/nt10.i/03MAR10.b/82600122L.m
Meth Date : 04-Mar-2010 12:01 aron Quant Type: ISTD
Cal Date : 22-FEB-2010 15:12 Cal File: 6000222.d
Als bottle: 1 QC Sample: MSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: voa.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	10.00000	Purge Volume (mL)
Sa	10.00000	Sample Amount (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
1 Dichlorodifluoromethane	85	1.385	1.391	(0.263)	149727	13.2252	13.225(R)
2 Chloromethane	50	1.545	1.551	(0.293)	175502	10.3633	10.363
3 Vinyl Chloride	62	1.607	1.613	(0.305)	232992	11.5716	11.572(Q)
4 Bromomethane	94	1.886	1.892	(0.358)	162388	9.35080	9.351(Q)
5 Chloroethane	64	2.000	2.006	(0.379)	170204	10.7645	10.764(Q)
6 Trichlorofluoromethane	101	2.125	2.131	(0.403)	327531	11.5728	11.573
8 Acrolein	56	3.002	3.002	(0.569)	5630	4.33254	4.333(Q)
9 112Trichloro122Trifluoroethane	101	2.666	2.672	(0.506)	204150	10.8096	10.810(Q)
10 Acetone	43	3.332	3.337	(0.632)	28876	13.8836	13.884(R)
11 1,1-Dichloroethene	96	2.609	2.615	(0.495)	246996	10.9954	10.995(Q)
12 Bromoethane	108	2.882	2.882	(0.547)	149447	10.9012	10.901
13 Iodomethane	142	2.740	2.746	(0.520)	274327	9.03578	9.036
14 Methylene Chloride	84	3.246	3.252	(0.616)	207535	11.0908	11.091(Q)
15 Acrylonitrile	53	4.089	4.089	(0.775)	25608	9.66765	9.668
16 Methyl tert butyl ether	73	3.554	3.554	(0.674)	686013	20.7693	20.769(M)
17 Carbon Disulfide	76	2.615	2.615	(0.496)	732726	9.96164	9.962

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
	18 Trans-1,2-Dichloroethene	96	3.417	3.417	(0.648)	262523	11.1220	11.122(Q)
	20 Vinyl Acetate	43	4.288	4.288	(0.813)	159088	7.61651	7.617
	21 1,1-Dichloroethane	63	4.020	4.026	(0.763)	429185	11.1607	11.161
	22 2-Butanone	72	4.988	4.988	(0.946)	28114	21.0157	21.016(R)
	23 2,2-Dichloropropane	77	4.584	4.590	(0.869)	137454	8.98320	8.983(Q)
	24 Cis-1,2-Dichloroethene	96	4.498	4.498	(0.853)	279056	10.5967	10.597(Q)
*	25 Pentafluorobenzene	168	5.272	5.272	(1.000)	451394	10.0000	
	26 Chloroform	83	4.737	4.737	(0.899)	455053	11.1073	11.107
	27 Bromochloromethane	128	4.663	4.664	(0.884)	192391	21.5085	21.508(Q)
$	28 Dibromofluoromethane	111	4.885	4.885	(0.927)	190198	10.1032	10.103
	29 1,1,1-Trichloroethane	97	4.885	4.885	(0.927)	348080	10.9229	10.923
	30 1,1-Dichloropropene	75	4.982	4.982	(0.880)	408782	11.1839	11.184(Q)
	31 Carbon Tetrachloride	117	4.823	4.823	(0.852)	291436	10.8988	10.899(Q)
$	32 d4-1,2-Dichloroethane	65	5.289	5.290	(1.003)	175856	10.6224	10.622
	33 1,2-Dichloroethane	62	5.341	5.341	(0.944)	240695	10.8433	10.843(Q)
	34 Benzene	78	5.181	5.181	(0.916)	1115819	10.8059	10.806
*	35 1,4-Difluorobenzene	114	5.659	5.659	(1.000)	736222	10.0000	
	36 Trichloroethene	95	5.619	5.620	(0.993)	328402	11.8692	11.869(Q)
	37 1,2-Dichloropropane	63	6.006	6.007	(1.061)	246774	11.0393	11.039(Q)
	38 Bromodichloromethane	83	6.052	6.052	(1.069)	311871	11.0316	11.032
	39 Dibromomethane	93	5.927	5.933	(1.047)	97287	10.8904	10.890(Q)
	40 2-Chloroethyl Vinyl Ether	63	6.667	6.468	(1.178)	108485	20.4434	20.443(QR)
	41 4-Methyl-2-Pentanone	58	6.945	6.946	(1.227)	38940	9.87528	9.875(Q)
	42 Cis 1,3-dichloropropene	75	6.502	6.502	(1.149)	344474	10.9484	10.948(Q)
$	43 d8-Toluene	98	6.632	6.633	(1.172)	923402	10.2934	10.293
	44 Toluene	92	6.667	6.667	(1.178)	776292	11.0220	11.022
	45 Trans 1,3-Dichloropropene	75	6.963	6.963	(1.230)	252103	10.8970	10.897(Q)
	46 2-Hexanone	43	7.526	7.526	(0.976)	57276	9.77326	9.773
	47 1,1,2-Trichloroethane	97	7.076	7.077	(1.250)	148054	10.7952	10.795(Q)
	48 1,3-Dichloropropane	76	7.264	7.264	(0.942)	272570	11.3235	11.324(Q)
	49 Tetrachloroethene	166	6.928	6.929	(0.898)	325130	11.1358	11.136(Q)
	50 Chlorodibromomethane	129	7.196	7.196	(0.933)	186870	11.5804	11.580(Q)
	51 1,2-Dibromoethane	107	7.361	7.361	(1.301)	132614	10.8869	10.887
*	52 d5-Chlorobenzene	117	7.714	7.720	(1.000)	671636	10.0000	
	53 Chlorobenzene	112	7.731	7.731	(1.002)	805743	11.4144	11.414(Q)
	54 Ethyl Benzene	91	7.748	7.748	(1.004)	1510805	11.2797	11.280(Q)
	55 1,1,1,2-Tetrachloroethane	131	7.776	7.777	(1.008)	231321	10.7104	10.710(Q)
	56 m,p-xylene	106	7.850	7.851	(1.018)	1156859	22.9183	22.918(Q)
	58 o-Xylene	106	8.158	8.158	(1.058)	516220	11.2836	11.284(Q)
	59 Styrene	104	8.192	8.198	(1.062)	800440	11.1189	11.119(Q)
	60 Isopropyl Benzene	105	8.380	8.380	(0.891)	1390385	10.4984	10.498
	61 Bromoform	173	8.215	8.215	(0.874)	86142	11.1068	11.107(Q)
	62 1,1,2,2-Tetrachloroethane	83	8.732	8.733	(0.929)	117883	10.3662	10.366
$	63 4-Bromofluorobenzene	95	8.584	8.585	(1.113)	277414	10.1813	10.181
	64 1,2,3-Trichloropropane	110	8.835	8.835	(0.939)	36384	10.5885	10.588(Q)
	65 Trans-1,4-Dichloro 2-Butene	53	8.863	8.869	(0.942)	24216	11.1121	11.112(Q)
	66 N-Propyl Benzene	91	8.676	8.681	(0.923)	1645431	10.8807	10.881(Q)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
	67 Bromobenzene	156	8.658	8.664	(0.921)	267030	10.5305	10.530(Q)
	68 1,3,5-Trimethyl Benzene	105	8.823	8.824	(0.938)	1062369	10.8584	10.858(Q)
	69 2-Chloro Toluene	91	8.789	8.795	(0.935)	1005314	10.5838	10.584
	70 4-Chloro Toluene	91	8.915	8.915	(0.948)	897614	10.9096	10.910(Q)
	71 T-Butyl Benzene	119	9.057	9.057	(0.963)	864490	10.4547	10.455(Q)
	72 1,2,4-Trimethylbenzene	105	9.108	9.108	(0.969)	1021667	11.0347	11.035
	73 S-Butyl Benzene	105	9.188	9.188	(0.977)	1310538	10.7806	10.781(Q)
	74 4-Isopropyl Toluene	119	9.296	9.296	(0.988)	1025618	11.0649	11.065(Q)
	75 1,3-Dichlorobenzene	146	9.347	9.353	(0.994)	475678	11.1832	11.183(Q)
*	76 d4-1,4-Dichlorobenzene	152	9.404	9.410	(1.000)	250887	10.0000	
	77 1,4-Dichlorobenzene	146	9.415	9.421	(1.001)	455550	11.2244	11.224(Q)
	78 N-Butyl Benzene	91	9.615	9.615	(1.022)	903567	11.4062	11.406(Q)
$	79 d4-1,2-Dichlorobenzene	152	9.728	9.734	(1.034)	189469	9.71089	9.711
	80 1,2-Dichlorobenzene	146	9.740	9.740	(1.036)	346200	10.8196	10.820(Q)
	81 1,2-Dibromo 3-Chloropropane	75	10.354	10.355	(1.101)	10958	10.8002	10.800(Q)
	82 1,2,4-Trichlorobenzene	180	10.878	10.878	(1.157)	164043	10.5171	10.517(Q)
	83 Hexachloro 1,3-Butadiene	225	10.855	10.855	(1.154)	89356	9.62545	9.625(Q)
	84 Naphthalene	128	11.140	11.140	(1.185)	221437	10.4471	10.447
	85 1,2,3-Trichlorobenzene	180	11.282	11.282	(1.200)	115972	10.9675	10.968(Q)

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: ql85amsd.d
Lab Smp Id: QL85A
Analysis Type: VOA
Quant Type: ISTD
Operator: ar
Method File: /chem1/nt10.i/03MAR10.b/82600122L.m
Misc Info: 10-4943

Calibration Date: 03-MAR-2010
Calibration Time: 12:36
Client Smp ID: CB31A022610GRAB MSD
Level: LOW
Sample Type: Water

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
25 Pentafluorobenzen	456228	228114	912456	451394	-1.06
35 1,4-Difluorobenze	740651	370326	1481302	736222	-0.60
52 d5-Chlorobenzene	686240	343120	1372480	671636	-2.13
76 d4-1,4-Dichlorobe	249963	124982	499926	250887	0.37

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
25 Pentafluorobenzen	5.27	4.77	5.77	5.27	0.00
35 1,4-Difluorobenze	5.66	5.16	6.16	5.66	0.00
52 d5-Chlorobenzene	7.72	7.22	8.22	7.71	-0.08
76 d4-1,4-Dichlorobe	9.40	8.90	9.90	9.40	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Floyd-Snider
Sample Matrix: LIQUID
Lab Smp Id: QL85A
Level: LOW
Data Type: MS DATA
SpikeList File: allspike.spk
Sublist File: voa.sub
Method File: /chem1/nt10.i/03MAR10.b/82600122L.m
Misc Info: 10-4943

Client SDG: QL85
Fraction: VOA
Client Smp ID: CB31A022610GRAB MSD
Operator: ar
SampleType: MSD
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1 Dichlorodifluorome	10.000	13.225	132.25*	59-129
2 Chloromethane	10.000	10.363	103.63	66-123
3 Vinyl Chloride	10.000	11.572	115.72	68-121
4 Bromomethane	10.000	9.351	93.51	55-148
5 Chloroethane	10.000	10.764	107.64	47-155
6 Trichlorofluoromet	10.000	11.573	115.73	70-129
8 Acrolein	10.000	4.333	43.33	24-170
9 112Trichloro122Tri	10.000	10.810	108.10	74-127
10 Acetone	10.000	13.884	138.84*	70-130
11 1,1-Dichloroethene	10.000	10.995	109.95	72-120
12 Bromoethane	10.000	10.901	109.01	73-131
13 Iodomethane	10.000	9.036	90.36	34-183
14 Methylene Chloride	10.000	11.091	110.91	70-124
15 Acrylonitrile	10.000	9.668	96.68	71-135
17 Carbon Disulfide	10.000	9.962	99.62	66-129
16 Methyl tert butyl	20.000	20.769	103.85	78-120
18 Trans-1,2-Dichloro	10.000	11.122	111.22	76-120
20 Vinyl Acetate	10.000	7.617	76.17	49-134
21 1,1-Dichloroethane	10.000	11.161	111.61	75-120
22 2-Butanone	10.000	21.016	210.16*	78-131
23 2,2-Dichloropropan	10.000	8.983	89.83	68-121
24 Cis-1,2-Dichloroet	10.000	10.597	105.97	80-120
26 Chloroform	10.000	11.107	111.07	78-120
27 Bromochloromethane	20.000	21.508	107.54	79-120
29 1,1,1-Trichloroeth	10.000	10.923	109.23	76-120
30 1,1-Dichloropropen	10.000	11.184	111.84	78-120
31 Carbon Tetrachlori	10.000	10.899	108.99	70-126
33 1,2-Dichloroethane	10.000	10.843	108.43	78-120
34 Benzene	10.000	10.806	108.06	79-120
36 Trichloroethene	10.000	11.869	118.69	78-120
37 1,2-Dichloropropan	10.000	11.039	110.39	80-120
38 Bromodichlorometha	10.000	11.032	110.32	78-120
39 Dibromomethane	10.000	10.890	108.90	80-120

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
40 2-Chloroethyl Viny	10.000	20.443	204.43*	68-134
41 4-Methyl-2-Pentano	10.000	9.875	98.75	73-131
42 Cis 1,3-dichloropr	10.000	10.948	109.48	78-120
44 Toluene	10.000	11.022	110.22	79-120
45 Trans 1,3-Dichloro	10.000	10.897	108.97	75-120
46 2-Hexanone	10.000	9.773	97.73	75-130
47 1,1,2-Trichloroeth	10.000	10.795	107.95	79-120
48 1,3-Dichloropropan	10.000	11.324	113.24	78-120
49 Tetrachloroethene	10.000	11.136	111.36	72-120
50 Chlorodibromometha	10.000	11.580	115.80	78-120
51 1,2-Dibromoethane	10.000	10.887	108.87	75-120
53 Chlorobenzene	10.000	11.414	114.14	79-120
55 1,1,1,2-Tetrachlor	10.000	10.710	107.10	75-120
54 Ethyl Benzene	10.000	11.280	112.80	78-120
56 m,p-xylene	20.000	22.918	114.59	65-129
58 o-Xylene	10.000	11.284	112.84	76-120
59 Styrene	10.000	11.119	111.19	74-121
60 Isopropyl Benzene	10.000	10.498	104.98	74-120
61 Bromoform	10.000	11.107	111.07	71-120
62 1,1,2,2-Tetrachlor	10.000	10.366	103.66	70-120
64 1,2,3-Trichloropro	10.000	10.588	105.88	73-120
65 Trans-1,4-Dichloro	10.000	11.112	111.12	65-135
66 N-Propyl Benzene	10.000	10.881	108.81	76-121
67 Bromobenzene	10.000	10.530	105.30	72-120
68 1,3,5-Trimethyl Be	10.000	10.858	108.58	74-123
69 2-Chloro Toluene	10.000	10.584	105.84	74-120
70 4-Chloro Toluene	10.000	10.910	109.10	75-120
71 T-Butyl Benzene	10.000	10.455	104.55	73-121
72 1,2,4-Trimethylben	10.000	11.035	110.35	73-124
73 S-Butyl Benzene	10.000	10.781	107.81	75-123
74 4-Isopropyl Toluen	10.000	11.065	110.65	71-125
75 1,3-Dichlorobenzen	10.000	11.183	111.83	72-120
77 1,4-Dichlorobenzen	10.000	11.224	112.24	76-120
78 N-Butyl Benzene	10.000	11.406	114.06	72-124
80 1,2-Dichlorobenzen	10.000	10.820	108.20	75-120
81 1,2-Dibromo 3-Chlo	10.000	10.800	108.00	67-121
82 1,2,4-Trichloroben	10.000	10.517	105.17	71-120
83 Hexachloro 1,3-But	10.000	9.625	96.25	67-124
84 Naphthalene	10.000	10.447	104.47	71-125
85 1,2,3-Trichloroben	10.000	10.968	109.68	61-134

SURROGATE COMPOUND	AMOUNT ADDED ug/L	AMOUNT RECOVERED ug/L	% RECOVERED	LIMITS
$ 28 Dibromofluorometha	10.000	10.103	101.03	60-130

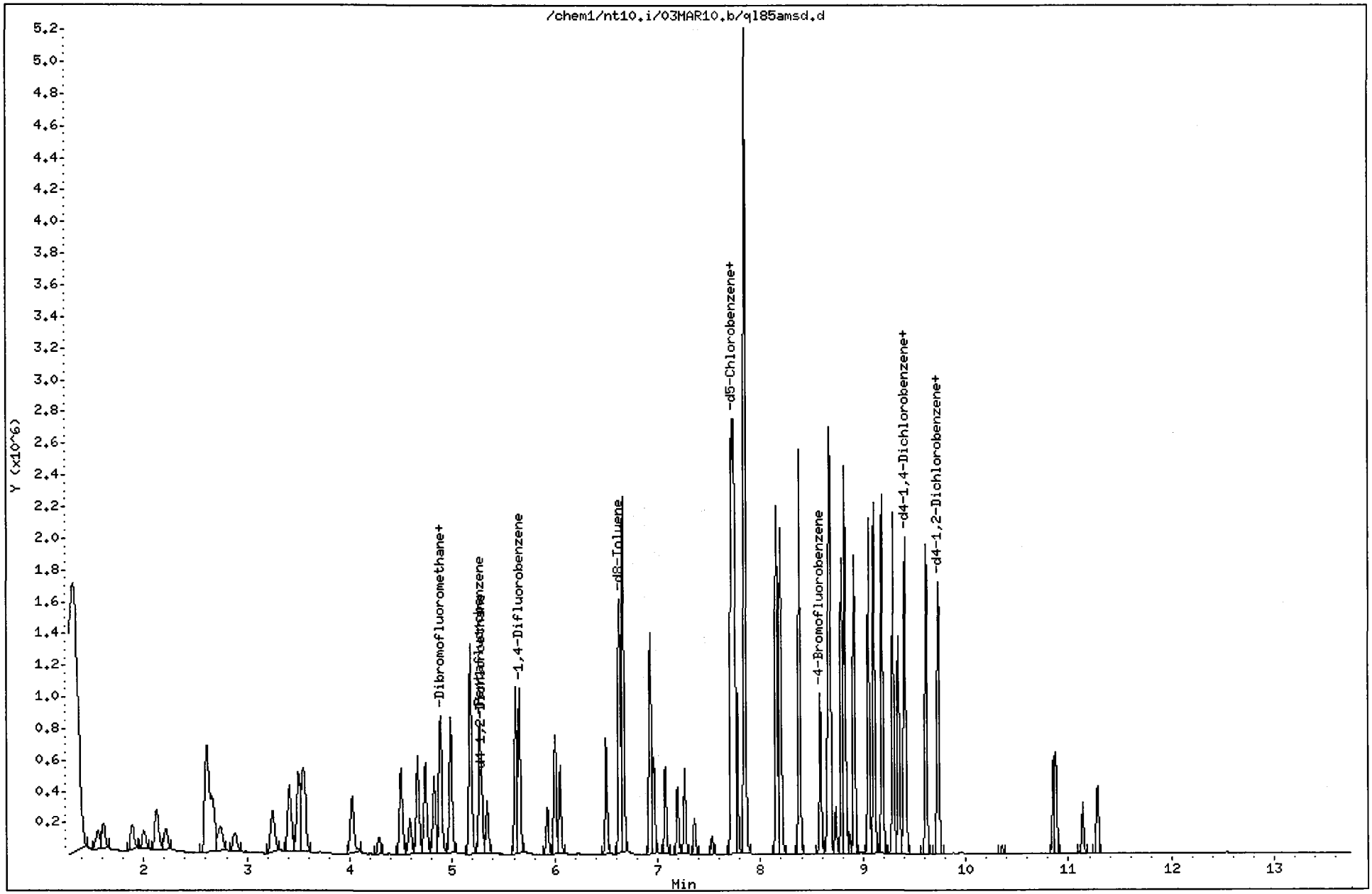
SURROGATE COMPOUND	AMOUNT ADDED ug/L	AMOUNT RECOVERED ug/L	% RECOVERED	LIMITS
$ 32 d4-1,2-Dichloroeth	10.000	10.622	106.22	80-143
$ 43 d8-Toluene	10.000	10.293	102.93	80-120
$ 63 4-Bromofluorobenze	10.000	10.181	101.81	80-120
$ 79 d4-1,2-Dichloroben	10.000	9.711	97.11	80-120

Data File: /chem1/nt10.i/03MAR10.b/ql85amsd.d
Date : 03-MAR-2010 19:48
Client ID: CB31A022610GRAB MSD
Sample Info: QL85A,10,10,0,MSD

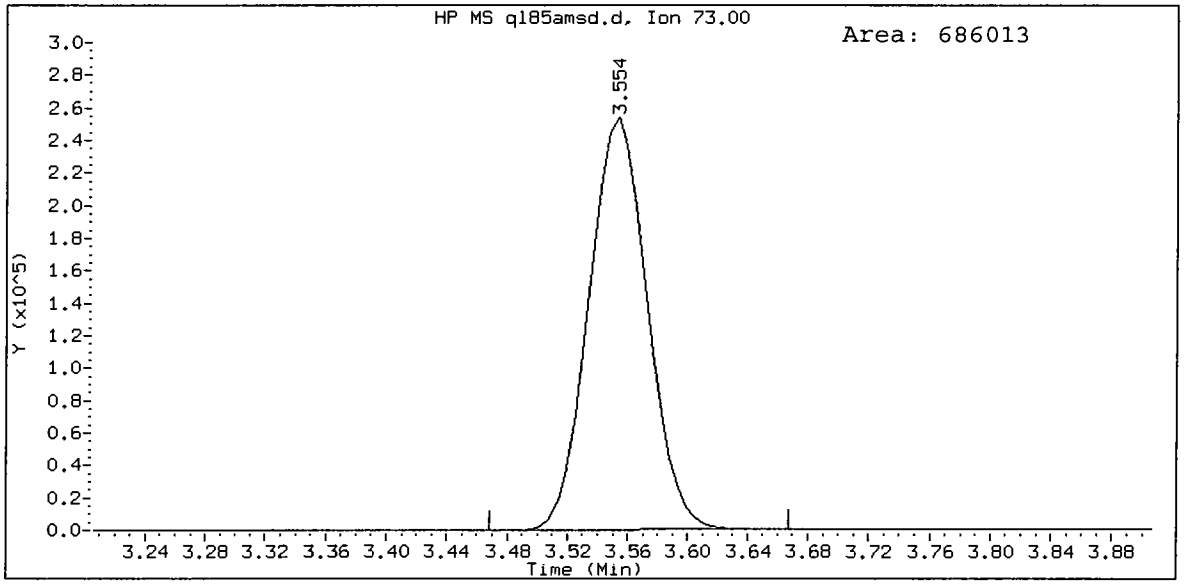
Instrument: nt10.i

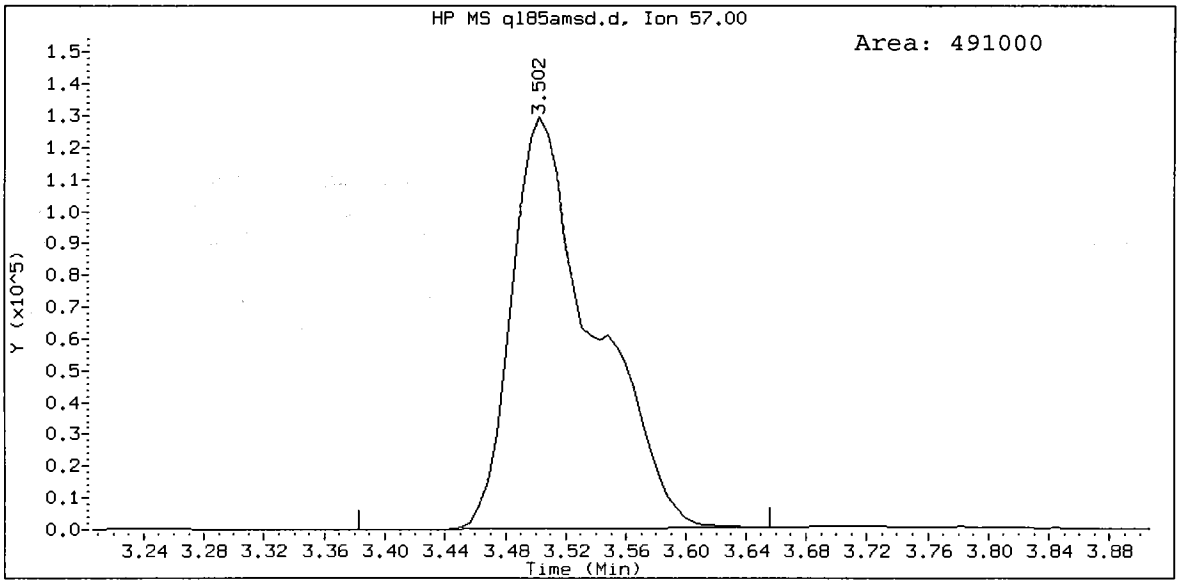
Operator: ar
Column diameter: 0.18

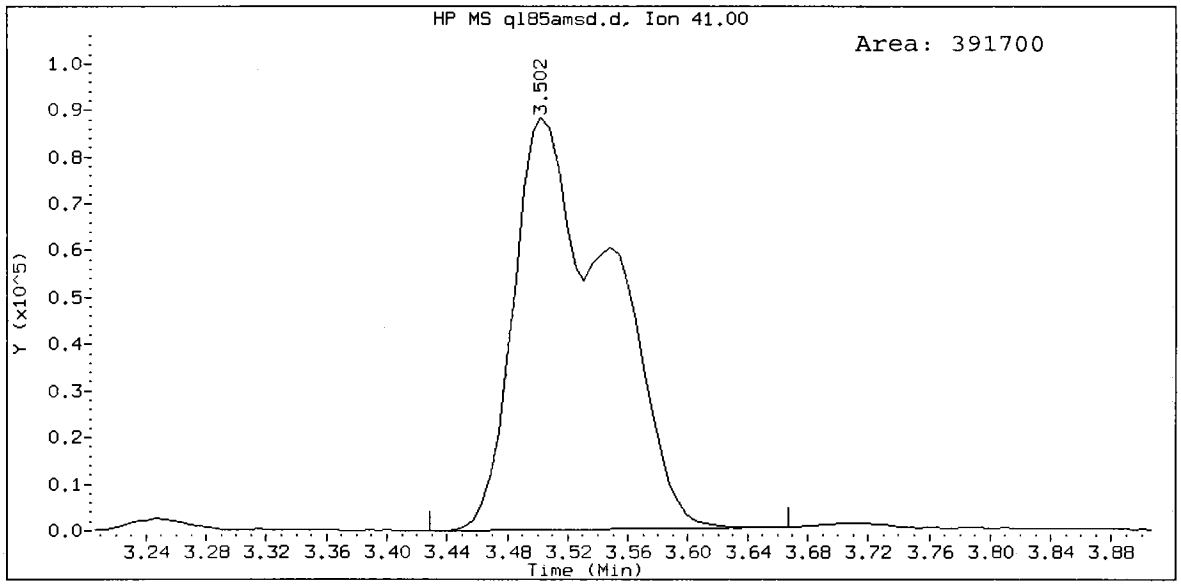
Column phase: RTX502.2



QL85A, /chem1/nt10.i/03MAR10.b/ql85amsd.d
Methyl tert butyl ether Amount: 20.77







Analytical Resources, Inc.

AR 3/4/2010

8260C

Data file : /chem1/nt10.i/03MAR10.b/lcs0303.d
Lab Smp Id: LCS0303 Client Smp ID: LCS0303
Inj Date : 03-MAR-2010 13:06
Operator : ar Inst ID: nt10.i
Smp Info : LCS0303,10,10,0
Misc Info : 10-
Comment :
Method : /chem1/nt10.i/03MAR10.b/82600122L.m
Meth Date : 04-Mar-2010 11:32 aron Quant Type: ISTD
Cal Date : 22-FEB-2010 15:12 Cal File: 6000222.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: voa.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	10.00000	Purge Volume (mL)
Sa	10.00000	Sample Amount (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
1 Dichlorodifluoromethane	85	1.385	1.391	(0.263)	186477	16.0791	16.079(R)
2 Chloromethane	50	1.545	1.551	(0.293)	192977	11.1239	11.124(M)
3 Vinyl Chloride	62	1.607	1.613	(0.305)	260167	12.6136	12.614(QR)
4 Bromomethane	94	1.892	1.892	(0.359)	195472	10.9879	10.988
5 Chloroethane	64	2.000	2.006	(0.379)	194687	12.0197	12.020(Q)
6 Trichlorofluoromethane	101	2.125	2.131	(0.403)	360390	12.4306	12.431
8 Acrolein	56	2.996	3.002	(0.568)	5987	4.49758	4.498(Q)
9 112Trichloro122Trifluoroethane	101	2.672	2.672	(0.507)	225773	11.6699	11.670(Q)
10 Acetone	43	3.338	3.337	(0.633)	29555	13.8717	13.872(R)
11 1,1-Dichloroethene	96	2.609	2.615	(0.495)	269036	11.6914	11.691(Q)
12 Bromoethane	108	2.882	2.882	(0.547)	155403	11.0657	11.066
13 Iodomethane	142	2.740	2.746	(0.520)	277438	8.92069	8.921
14 Methylene Chloride	84	3.252	3.252	(0.617)	219305	11.4408	11.441(Q)
15 Acrylonitrile	53	4.094	4.089	(0.777)	28079	10.3481	10.348
16 Methyl tert butyl ether	73	3.554	3.554	(0.674)	729608	21.5633	21.563(Q)
17 Carbon Disulfide	76	2.615	2.615	(0.496)	821122	10.8976	10.898

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
	18 Trans-1,2-Dichloroethene	96	3.417	3.417	(0.648)	265591	10.9841	10.984(Q)
	20 Vinyl Acetate	43	4.288	4.288	(0.813)	169021	7.89940	7.899
	21 1,1-Dichloroethane	63	4.026	4.026	(0.764)	430922	10.9391	10.939
	22 2-Butanone	72	4.988	4.988	(0.946)	27669	20.1906	20.191(R)
	23 2,2-Dichloropropane	77	4.590	4.590	(0.870)	160550	10.2428	10.243(Q)
	24 Cis-1,2-Dichloroethene	96	4.504	4.498	(0.854)	274801	10.1867	10.187(Q)
*	25 Pentafluorobenzene	168	5.272	5.272	(1.000)	462403	10.0000	
	26 Chloroform	83	4.737	4.737	(0.899)	446061	10.6286	10.629
	27 Bromochloromethane	128	4.664	4.664	(0.884)	191416	20.8900	20.890(Q)
$	28 Dibromofluoromethane	111	4.885	4.885	(0.927)	197491	10.2409	10.241
	29 1,1,1-Trichloroethane	97	4.885	4.885	(0.927)	364325	11.1604	11.160
	30 1,1-Dichloropropene	75	4.988	4.982	(0.881)	397206	10.7203	10.720(Q)
	31 Carbon Tetrachloride	117	4.823	4.823	(0.852)	299356	11.0437	11.044(Q)
$	32 d4-1,2-Dichloroethane	65	5.290	5.290	(1.003)	181111	10.6794	10.679
	33 1,2-Dichloroethane	62	5.341	5.341	(0.944)	237145	10.5390	10.539(Q)
	34 Benzene	78	5.181	5.181	(0.916)	1104585	10.5525	10.553
*	35 1,4-Difluorobenzene	114	5.659	5.659	(1.000)	746307	10.0000	
	36 Trichloroethene	95	5.620	5.620	(0.993)	323628	11.5386	11.539(Q)
	37 1,2-Dichloropropane	63	6.007	6.007	(1.061)	236598	10.4410	10.441(Q)
	38 Bromodichloromethane	83	6.052	6.052	(1.069)	305121	10.6470	10.647
	39 Dibromomethane	93	5.927	5.933	(1.047)	95271	10.5206	10.521(Q)
	40 2-Chloroethyl Vinyl Ether	63	6.468	6.468	(1.143)	68531	12.7398	12.740(Q)
	41 4-Methyl-2-Pentanone	58	6.946	6.946	(1.227)	37129	9.28877	9.289(Q)
	42 Cis 1,3-dichloropropene	75	6.502	6.502	(1.149)	339848	10.6554	10.655(Q)
$	43 d8-Toluene	98	6.633	6.633	(1.172)	925881	10.1815	10.182
	44 Toluene	92	6.667	6.667	(1.178)	736106	10.3102	10.310
	45 Trans 1,3-Dichloropropene	75	6.963	6.963	(1.230)	251255	10.7135	10.714(Q)
	46 2-Hexanone	43	7.526	7.526	(0.975)	59115	10.0058	10.006
	47 1,1,2-Trichloroethane	97	7.077	7.077	(1.250)	141949	10.2102	10.210(Q)
	48 1,3-Dichloropropane	76	7.264	7.264	(0.941)	260652	10.7412	10.741(Q)
	49 Tetrachloroethene	166	6.929	6.929	(0.898)	311289	10.5759	10.576(Q)
	50 Chlorodibromomethane	129	7.196	7.196	(0.932)	181301	11.1447	11.145(Q)
	51 1,2-Dibromoethane	107	7.361	7.361	(1.301)	129638	10.4988	10.499
*	52 d5-Chlorobenzene	117	7.720	7.720	(1.000)	677091	10.0000	
	53 Chlorobenzene	112	7.731	7.731	(1.001)	773741	10.8728	10.873(Q)
	54 Ethyl Benzene	91	7.748	7.748	(1.004)	1467568	10.8686	10.869(Q)
	55 1,1,1,2-Tetrachloroethane	131	7.777	7.777	(1.007)	236563	10.8648	10.865(Q)
	56 m,p-xylene	106	7.851	7.851	(1.017)	1133251	22.2697	22.270(Q)
	58 o-Xylene	106	8.158	8.158	(1.057)	518836	11.2494	11.249(Q)
	59 Styrene	104	8.192	8.198	(1.061)	791986	10.9128	10.913(Q)
	60 Isopropyl Benzene	105	8.380	8.380	(0.891)	1431871	9.57850	9.578
	61 Bromoform	173	8.215	8.215	(0.874)	85571	9.77475	9.775(Q)
	62 1,1,2,2-Tetrachloroethane	83	8.733	8.733	(0.929)	128430	10.0055	10.006
$	63 4-Bromofluorobenzene	95	8.585	8.585	(1.112)	294661	10.7271	10.727
	64 1,2,3-Trichloropropane	110	8.835	8.835	(0.939)	38132	9.83146	9.831(Q)
	65 Trans-1,4-Dichloro 2-Butene	53	8.864	8.869	(0.942)	23997	9.79925	9.799(Q)
	66 N-Propyl Benzene	91	8.681	8.681	(0.923)	1684701	9.86972	9.870(Q)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
67 Bromobenzene	156	8.659	8.664	(0.921)	266273	9.30295	9.303(Q)
68 1,3,5-Trimethyl Benzene	105	8.824	8.824	(0.938)	1135488	10.2820	10.282(Q)
69 2-Chloro Toluene	91	8.790	8.795	(0.935)	1041957	9.71836	9.718
70 4-Chloro Toluene	91	8.915	8.915	(0.948)	912995	9.83091	9.831(Q)
71 T-Butyl Benzene	119	9.057	9.057	(0.963)	943309	10.1067	10.107(Q)
72 1,2,4-Trimethylbenzene	105	9.108	9.108	(0.969)	1098996	10.5160	10.516
73 S-Butyl Benzene	105	9.188	9.188	(0.977)	1440641	10.4992	10.499(Q)
74 4-Isopropyl Toluene	119	9.296	9.296	(0.988)	1142281	10.9179	10.918(Q)
75 1,3-Dichlorobenzene	146	9.347	9.353	(0.994)	506188	10.5432	10.543(Q)
* 76 d4-1,4-Dichlorobenzene	152	9.404	9.410	(1.000)	283187	10.0000	
77 1,4-Dichlorobenzene	146	9.416	9.421	(1.001)	485472	10.5974	10.597(Q)
78 N-Butyl Benzene	91	9.615	9.615	(1.022)	1018025	11.3853	11.385(Q)
$ 79 d4-1,2-Dichlorobenzene	152	9.729	9.734	(1.034)	219570	9.97009	9.970
80 1,2-Dichlorobenzene	146	9.740	9.740	(1.036)	379848	10.5172	10.517(Q)
81 1,2-Dibromo 3-Chloropropane	75	10.355	10.355	(1.101)	11222	9.79888	9.799(Q)
82 1,2,4-Trichlorobenzene	180	10.878	10.878	(1.157)	157495	8.94563	8.946(Q)
83 Hexachloro 1,3-Butadiene	225	10.855	10.855	(1.154)	99891	9.53298	9.533(Q)
84 Naphthalene	128	11.134	11.140	(1.184)	217904	9.10789	9.108
85 1,2,3-Trichlorobenzene	180	11.277	11.282	(1.199)	112219	9.40212	9.402(Q)

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: lcs0303.d
Lab Smp Id: LCS0303
Analysis Type: VOA
Quant Type: ISTD
Operator: ar
Method File: /chem1/nt10.i/03MAR10.b/82600122L.m
Misc Info: 10-

Calibration Date: 03-MAR-2010
Calibration Time: 12:36
Client Smp ID: LCS0303
Level: LOW
Sample Type: WATER

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
25 Pentafluorobenzen	456228	228114	912456	462403	1.35
35 1,4-Difluorobenze	740651	370326	1481302	746307	0.76
52 d5-Chlorobenzene	686240	343120	1372480	677091	-1.33
76 d4-1,4-Dichlorobe	249963	124982	499926	283187	13.29

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
25 Pentafluorobenzen	5.27	4.77	5.77	5.27	0.00
35 1,4-Difluorobenze	5.66	5.16	6.16	5.66	0.00
52 d5-Chlorobenzene	7.72	7.22	8.22	7.72	0.00
76 d4-1,4-Dichlorobe	9.40	8.90	9.90	9.40	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: LCS0303
Level: LOW
Data Type: MS DATA
SpikeList File: allspike.spk
Sublist File: voa.sub
Method File: /chem1/nt10.i/03MAR10.b/82600122L.m
Misc Info: 10-

Client SDG: 03MAR10
Fraction: VOA
Client Smp ID: LCS0303
Operator: ar
SampleType: LCS
Quant Type: ISTD

	SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1	Dichlorodifluorome	10.000	16.079	160.79*	59-129
2	Chloromethane	10.000	11.124	111.24	66-123
3	Vinyl Chloride	10.000	12.614	126.14*	68-121
4	Bromomethane	10.000	10.988	109.88	55-148
5	Chloroethane	10.000	12.020	120.20	47-155
6	Trichlorofluoromet	10.000	12.431	124.31	70-129
8	Acrolein	10.000	4.498	44.98	24-170
9	112Trichloro122Tri	10.000	11.670	116.70	74-127
10	Acetone	10.000	13.872	138.72*	70-130
11	1,1-Dichloroethene	10.000	11.691	116.91	72-120
12	Bromoethane	10.000	11.066	110.66	73-131
13	Iodomethane	10.000	8.921	89.21	34-183
14	Methylene Chloride	10.000	11.441	114.41	70-124
15	Acrylonitrile	10.000	10.348	103.48	71-135
17	Carbon Disulfide	10.000	10.898	108.98	66-129
16	Methyl tert butyl	20.000	21.563	107.82	78-120
18	Trans-1,2-Dichloro	10.000	10.984	109.84	76-120
20	Vinyl Acetate	10.000	7.899	78.99	49-134
21	1,1-Dichloroethane	10.000	10.939	109.39	75-120
22	2-Butanone	10.000	20.191	201.91*	78-131
23	2,2-Dichloropropan	10.000	10.243	102.43	68-121
24	Cis-1,2-Dichloroet	10.000	10.187	101.87	80-120
26	Chloroform	10.000	10.629	106.29	78-120
27	Bromochloromethane	20.000	20.890	104.45	79-120
29	1,1,1-Trichloroeth	10.000	11.160	111.60	76-120
30	1,1-Dichloropropen	10.000	10.720	107.20	78-120
31	Carbon Tetrachlori	10.000	11.044	110.44	70-126
33	1,2-Dichloroethane	10.000	10.539	105.39	78-120
34	Benzene	10.000	10.553	105.53	79-120
36	Trichloroethene	10.000	11.539	115.39	78-120
37	1,2-Dichloropropan	10.000	10.441	104.41	80-120
38	Bromodichlorometha	10.000	10.647	106.47	78-120
39	Dibromomethane	10.000	10.521	105.21	80-120

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
40 2-Chloroethyl Viny	10.000	12.740	127.40	68-134
41 4-Methyl-2-Pentano	10.000	9.289	92.89	73-131
42 Cis 1,3-dichloropr	10.000	10.655	106.55	78-120
44 Toluene	10.000	10.310	103.10	79-120
45 Trans 1,3-Dichloro	10.000	10.714	107.14	75-120
46 2-Hexanone	10.000	10.006	100.06	75-130
47 1,1,2-Trichloroeth	10.000	10.210	102.10	79-120
48 1,3-Dichloropropan	10.000	10.741	107.41	78-120
49 Tetrachloroethene	10.000	10.576	105.76	72-120
50 Chlorodibromometha	10.000	11.145	111.45	78-120
51 1,2-Dibromoethane	10.000	10.499	104.99	75-120
53 Chlorobenzene	10.000	10.873	108.73	79-120
55 1,1,1,2-Tetrachlor	10.000	10.865	108.65	75-120
54 Ethyl Benzene	10.000	10.869	108.69	78-120
56 m,p-xylene	20.000	22.270	111.35	65-129
58 o-Xylene	10.000	11.249	112.49	76-120
59 Styrene	10.000	10.913	109.13	74-121
60 Isopropyl Benzene	10.000	9.578	95.78	74-120
61 Bromoform	10.000	9.775	97.75	71-120
62 1,1,2,2-Tetrachlor	10.000	10.006	100.06	70-120
64 1,2,3-Trichloropro	10.000	9.831	98.31	73-120
65 Trans-1,4-Dichloro	10.000	9.799	97.99	65-135
66 N-Propyl Benzene	10.000	9.870	98.70	76-121
67 Bromobenzene	10.000	9.303	93.03	72-120
68 1,3,5-Trimethyl Be	10.000	10.282	102.82	74-123
69 2-Chloro Toluene	10.000	9.718	97.18	74-120
70 4-Chloro Toluene	10.000	9.831	98.31	75-120
71 T-Butyl Benzene	10.000	10.107	101.07	73-121
72 1,2,4-Trimethylben	10.000	10.516	105.16	73-124
73 S-Butyl Benzene	10.000	10.499	104.99	75-123
74 4-Isopropyl Toluen	10.000	10.918	109.18	71-125
75 1,3-Dichlorobenzen	10.000	10.543	105.43	72-120
77 1,4-Dichlorobenzen	10.000	10.597	105.97	76-120
78 N-Butyl Benzene	10.000	11.385	113.85	72-124
80 1,2-Dichlorobenzen	10.000	10.517	105.17	75-120
81 1,2-Dibromo 3-Chlo	10.000	9.799	97.99	67-121
82 1,2,4-Trichloroben	10.000	8.946	89.46	71-120
83 Hexachloro 1,3-But	10.000	9.533	95.33	67-124
84 Naphthalene	10.000	9.108	91.08	71-125
85 1,2,3-Trichloroben	10.000	9.402	94.02	61-134

SURROGATE COMPOUND	AMOUNT ADDED ug/L	AMOUNT RECOVERED ug/L	% RECOVERED	LIMITS
$ 28 Dibromofluorometha	10.000	10.241	102.41	60-130

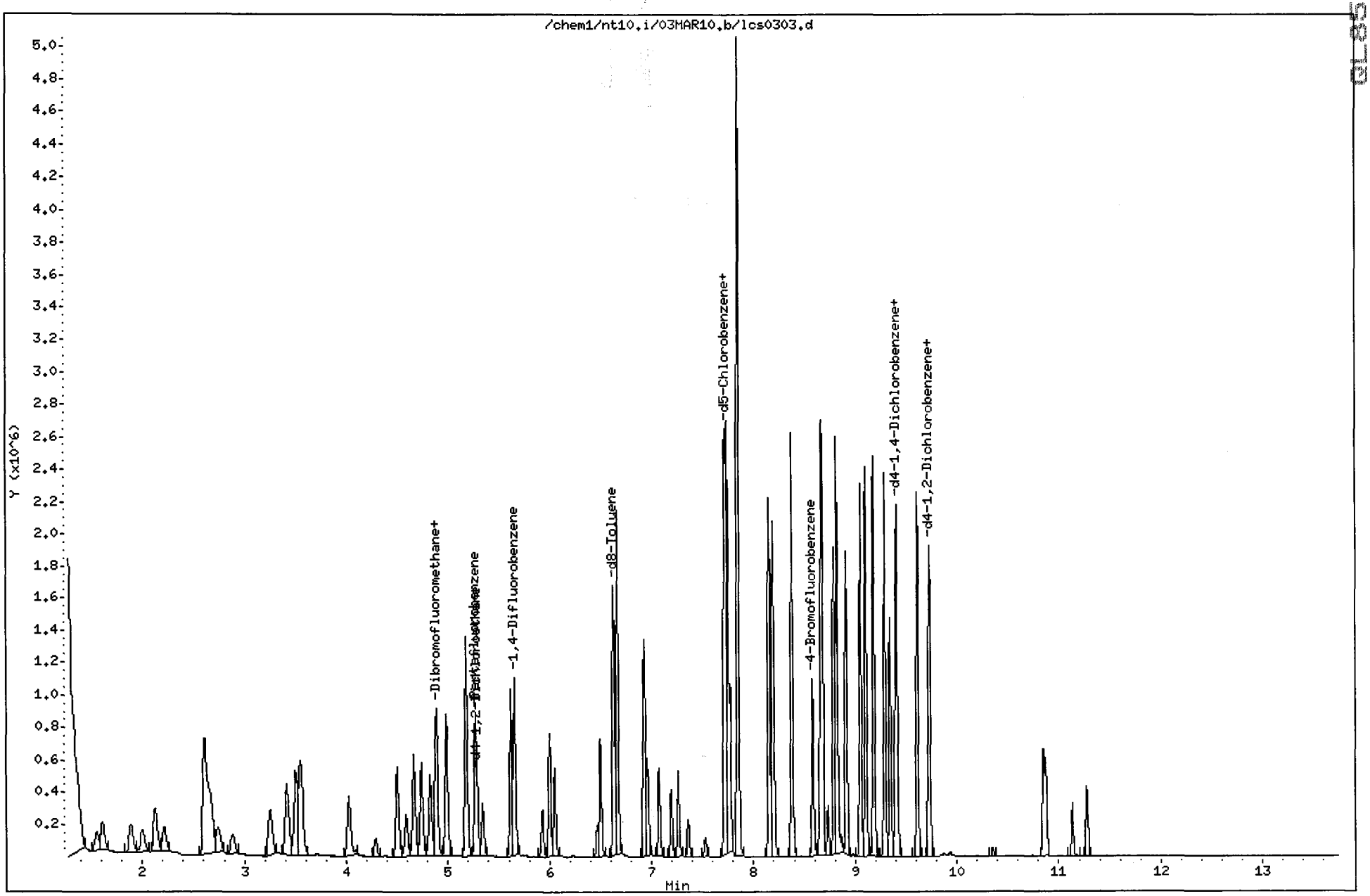
SURROGATE COMPOUND	AMOUNT ADDED ug/L	AMOUNT RECOVERED ug/L	% RECOVERED	LIMITS
$ 32 d4-1,2-Dichloroeth	10.000	10.679	106.79	80-143
$ 43 d8-Toluene	10.000	10.182	101.82	80-120
$ 63 4-Bromofluorobenze	10.000	10.727	107.27	80-120
$ 79 d4-1,2-Dichloroben	10.000	9.970	99.70	80-120

Data File: /chem1/nt10.i/03MAR10.b/lcs0303.d
Date : 03-MAR-2010 13:06
Client ID: LCS0303
Sample Info: LCS0303,10,10,0

Column phase: RTX502.2

Instrument: nt10.i

Operator: ar
Column diameter: 0.18



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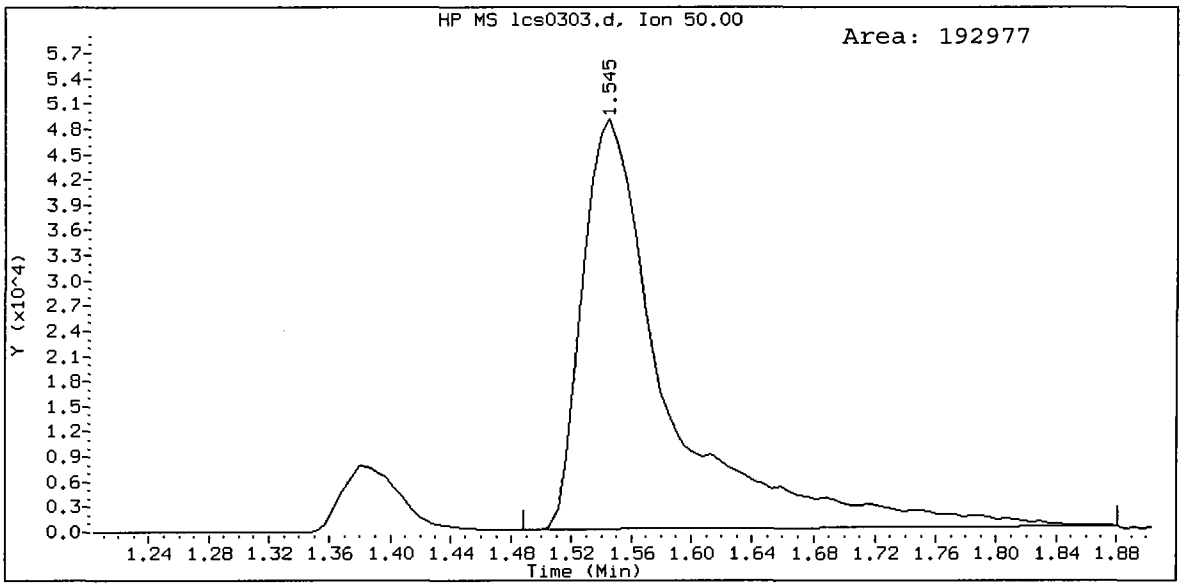
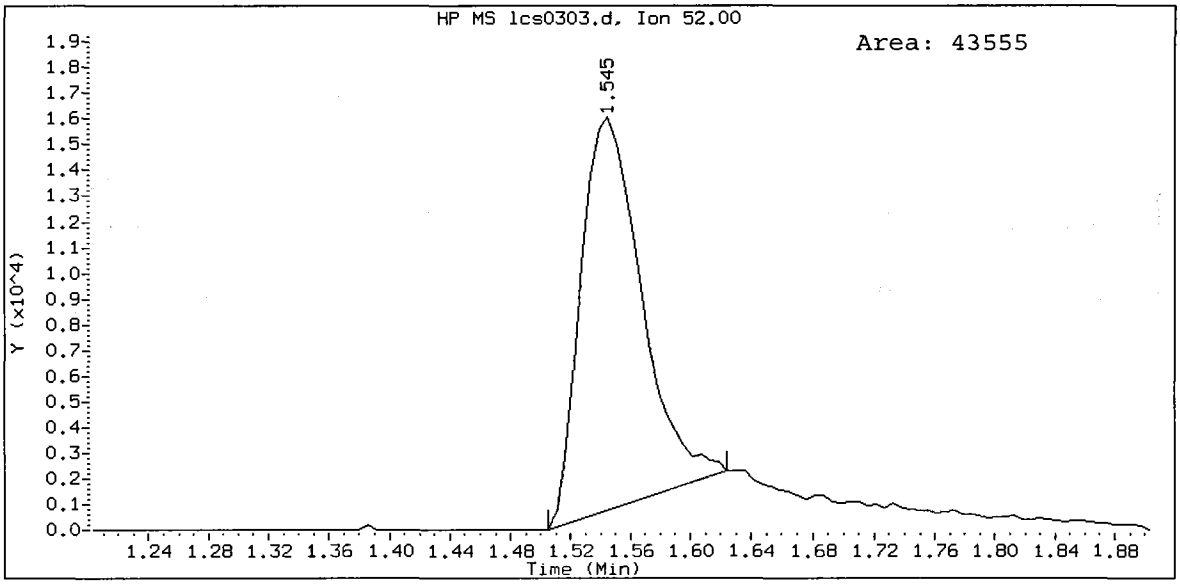
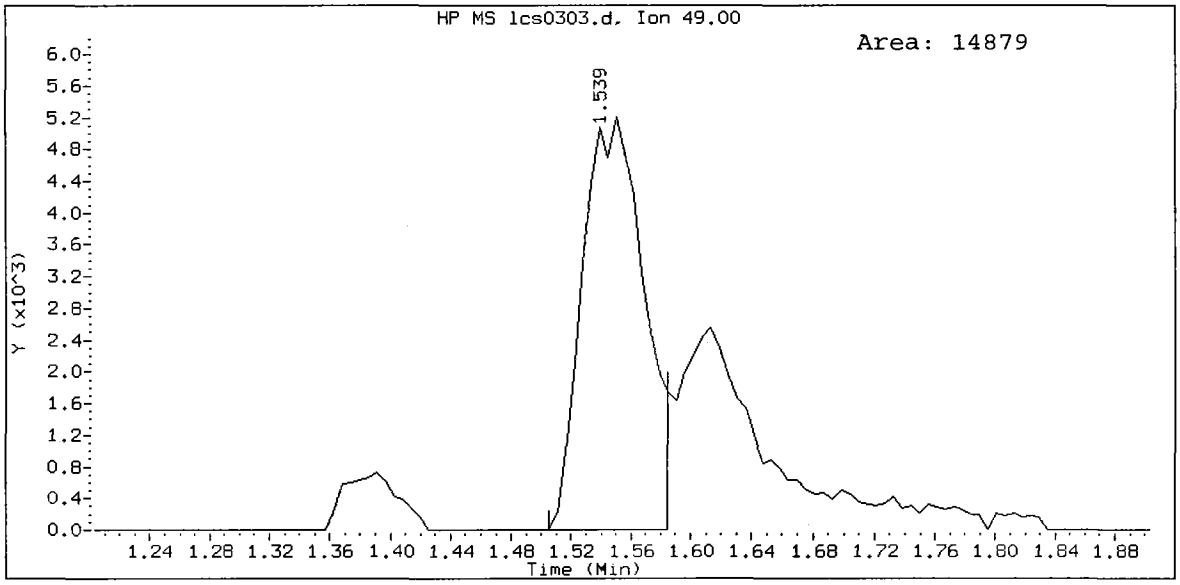
Chloromethane Amount: 11.12







AR 3/4/2010

Analytical Resources, Inc.

8260C

Data file : /chem1/nt10.i/03MAR10.b/lcs0303a.d
Lab Smp Id: LCS0303 Client Smp ID: LCS0303
Inj Date : 03-MAR-2010 13:36
Operator : ar Inst ID: nt10.i
Smp Info : LCS0303,10,10,0
Misc Info : 10-
Comment :
Method : /chem1/nt10.i/03MAR10.b/82600122L.m
Meth Date : 04-Mar-2010 11:32 aron Quant Type: ISTD
Cal Date : 22-FEB-2010 15:12 Cal File: 6000222.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: voa.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	10.00000	Purge Volume (mL)
Sa	10.00000	Sample Amount (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
1 Dichlorodifluoromethane	85	1.380	1.391	(0.262)	180360	15.4389	15.439(R)
2 Chloromethane	50	1.539	1.551	(0.292)	192889	11.0382	11.038(M)
3 Vinyl Chloride	62	1.607	1.613	(0.305)	261314	12.5773	12.577(QR)
4 Bromomethane	94	1.886	1.892	(0.358)	199348	11.1245	11.124
5 Chloroethane	64	2.000	2.006	(0.379)	196560	12.0473	12.047(Q)
6 Trichlorofluoromethane	101	2.125	2.131	(0.403)	353971	12.1206	12.121
8 Acrolein	56	3.002	3.002	(0.569)	5793	4.32027	4.320(Q)
9 112Trichloro122Trifluoroethane	101	2.666	2.672	(0.506)	224346	11.5121	11.512(Q)
10 Acetone	43	3.332	3.337	(0.632)	28207	13.1430	13.143(R)
11 1,1-Dichloroethene	96	2.609	2.615	(0.495)	265912	11.4719	11.472(Q)
12 Bromoethane	108	2.882	2.882	(0.547)	157498	11.1336	11.134
13 Iodomethane	142	2.740	2.746	(0.520)	293346	9.36376	9.364
14 Methylene Chloride	84	3.252	3.252	(0.617)	218905	11.3371	11.337(Q)
15 Acrylonitrile	53	4.089	4.089	(0.775)	27419	10.0316	10.032
16 Methyl tert butyl ether	73	3.554	3.554	(0.674)	705687	20.7050	20.705(M)
17 Carbon Disulfide	76	2.615	2.615	(0.496)	789054	10.3961	10.396

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
	18 Trans-1,2-Dichloroethene	96	3.417	3.417	(0.648)	266436	10.9391	10.939(Q)
	20 Vinyl Acetate	43	4.288	4.288	(0.813)	168123	7.80043	7.800
	21 1,1-Dichloroethane	63	4.026	4.026	(0.764)	422474	10.6468	10.647
	22 2-Butanone	72	4.994	4.988	(0.947)	27610	20.0014	20.001(R)
	23 2,2-Dichloropropane	77	4.590	4.590	(0.870)	161132	10.2054	10.205(Q)
	24 Cis-1,2-Dichloroethene	96	4.498	4.498	(0.853)	273673	10.0713	10.071(Q)
*	25 Pentafluorobenzene	168	5.272	5.272	(1.000)	465782	10.0000	
	26 Chloroform	83	4.737	4.737	(0.899)	443168	10.4830	10.483
	27 Bromochloromethane	128	4.664	4.664	(0.884)	191337	20.7299	20.730(Q)
$	28 Dibromofluoromethane	111	4.885	4.885	(0.927)	194682	10.0220	10.022
	29 1,1,1-Trichloroethane	97	4.885	4.885	(0.927)	359067	10.9196	10.920
	30 1,1-Dichloropropene	75	4.982	4.982	(0.880)	396758	10.7249	10.725(Q)
	31 Carbon Tetrachloride	117	4.823	4.823	(0.852)	297816	11.0040	11.004(Q)
$	32 d4-1,2-Dichloroethane	65	5.290	5.290	(1.003)	178558	10.4524	10.452
	33 1,2-Dichloroethane	62	5.341	5.341	(0.944)	237209	10.5583	10.558(Q)
	34 Benzene	78	5.181	5.181	(0.916)	1091509	10.4438	10.444
*	35 1,4-Difluorobenzene	114	5.659	5.659	(1.000)	745145	10.0000	
	36 Trichloroethene	95	5.620	5.620	(0.993)	313589	11.1981	11.198(Q)
	37 1,2-Dichloropropane	63	6.007	6.007	(1.061)	234584	10.3683	10.368(Q)
	38 Bromodichloromethane	83	6.052	6.052	(1.069)	304951	10.6577	10.658
	39 Dibromomethane	93	5.927	5.933	(1.047)	95674	10.5816	10.582(Q)
	40 2-Chloroethyl Vinyl Ether	63	6.468	6.468	(1.143)	63220	11.7708	11.771(Q)
	41 4-Methyl-2-Pentanone	58	6.946	6.946	(1.227)	37447	9.38293	9.383(Q)
	42 Cis 1,3-dichloropropene	75	6.502	6.502	(1.149)	340495	10.6923	10.692(Q)
$	43 d8-Toluene	98	6.633	6.633	(1.172)	937559	10.3260	10.326
	44 Toluene	92	6.667	6.667	(1.178)	747955	10.4925	10.492
	45 Trans 1,3-Dichloropropene	75	6.963	6.963	(1.230)	251503	10.7408	10.741(Q)
	46 2-Hexanone	43	7.526	7.526	(0.975)	60105	10.1040	10.104
	47 1,1,2-Trichloroethane	97	7.077	7.077	(1.250)	143329	10.3255	10.326(Q)
	48 1,3-Dichloropropane	76	7.264	7.264	(0.941)	264001	10.8050	10.805(Q)
	49 Tetrachloroethene	166	6.929	6.929	(0.898)	315729	10.6536	10.654(Q)
	50 Chlorodibromomethane	129	7.196	7.196	(0.932)	181481	11.0797	11.080(Q)
	51 1,2-Dibromoethane	107	7.361	7.361	(1.301)	129997	10.5443	10.544
*	52 d5-Chlorobenzene	117	7.720	7.720	(1.000)	681740	10.0000	
	53 Chlorobenzene	112	7.731	7.731	(1.001)	776844	10.8419	10.842(Q)
	54 Ethyl Benzene	91	7.748	7.748	(1.004)	1474618	10.8463	10.846(Q)
	55 1,1,1,2-Tetrachloroethane	131	7.777	7.777	(1.007)	235436	10.7393	10.739(Q)
	56 m,p-xylene	106	7.850	7.851	(1.017)	1127393	22.0035	22.004(Q)
	58 o-Xylene	106	8.158	8.158	(1.057)	522482	11.2512	11.251(Q)
	59 Styrene	104	8.192	8.198	(1.061)	797142	10.9089	10.909(Q)
	60 Isopropyl Benzene	105	8.380	8.380	(0.891)	1428340	9.33333	9.333
	61 Bromoform	173	8.215	8.215	(0.874)	87029	9.71079	9.711(Q)
	62 1,1,2,2-Tetrachloroethane	83	8.733	8.733	(0.929)	129138	9.82739	9.827
$	63 4-Bromofluorobenzene	95	8.585	8.585	(1.112)	296934	10.7362	10.736
	64 1,2,3-Trichloropropane	110	8.835	8.835	(0.939)	37757	9.50906	9.509(Q)
	65 Trans-1,4-Dichloro 2-Butene	53	8.863	8.869	(0.942)	24502	9.77429	9.774(Q)
	66 N-Propyl Benzene	91	8.676	8.681	(0.923)	1684613	9.64037	9.640(Q)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
67 Bromobenzene	156	8.659	8.664	(0.921)	268254	9.15485	9.155(Q)
68 1,3,5-Trimethyl Benzene	105	8.824	8.824	(0.938)	1137124	10.0580	10.058(Q)
69 2-Chloro Toluene	91	8.790	8.795	(0.935)	1044196	9.51342	9.513
70 4-Chloro Toluene	91	8.915	8.915	(0.948)	913615	9.60949	9.609(Q)
71 T-Butyl Benzene	119	9.057	9.057	(0.963)	939841	9.83611	9.836(Q)
72 1,2,4-Trimethylbenzene	105	9.108	9.108	(0.969)	1100609	10.2873	10.287
73 S-Butyl Benzene	105	9.188	9.188	(0.977)	1441011	10.2584	10.258(Q)
74 4-Isopropyl Toluene	119	9.296	9.296	(0.988)	1154884	10.7824	10.782(Q)
75 1,3-Dichlorobenzene	146	9.347	9.353	(0.994)	512618	10.4295	10.430(Q)
* 76 d4-1,4-Dichlorobenzene	152	9.404	9.410	(1.000)	289909	10.0000	
77 1,4-Dichlorobenzene	146	9.416	9.421	(1.001)	491949	10.4897	10.490(Q)
78 N-Butyl Benzene	91	9.615	9.615	(1.022)	1028763	11.2386	11.239(Q)
$ 79 d4-1,2-Dichlorobenzene	152	9.729	9.734	(1.034)	224932	9.97674	9.977
80 1,2-Dichlorobenzene	146	9.734	9.740	(1.035)	386442	10.4516	10.452(Q)
81 1,2-Dibromo 3-Chloropropane	75	10.355	10.355	(1.101)	11572	9.87020	9.870(Q)
82 1,2,4-Trichlorobenzene	180	10.878	10.878	(1.157)	159852	8.86898	8.869(Q)
83 Hexachloro 1,3-Butadiene	225	10.850	10.855	(1.154)	99602	9.28500	9.285(Q)
84 Naphthalene	128	11.134	11.140	(1.184)	217326	8.87311	8.873
85 1,2,3-Trichlorobenzene	180	11.276	11.282	(1.199)	113656	9.30172	9.302(Q)

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: lcs0303a.d
Lab Smp Id: LCS0303
Analysis Type: VOA
Quant Type: ISTD
Operator: ar
Method File: /chem1/nt10.i/03MAR10.b/82600122L.m
Misc Info: 10-

Calibration Date: 03-MAR-2010
Calibration Time: 12:36
Client Smp ID: LCS0303
Level: LOW
Sample Type: WATER

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
25 Pentafluorobenzen	456228	228114	912456	465782	2.09
35 1,4-Difluorobenze	740651	370326	1481302	745145	0.61
52 d5-Chlorobenzene	686240	343120	1372480	681740	-0.66
76 d4-1,4-Dichlorobe	249963	124982	499926	289909	15.98

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
25 Pentafluorobenzen	5.27	4.77	5.77	5.27	0.00
35 1,4-Difluorobenze	5.66	5.16	6.16	5.66	0.00
52 d5-Chlorobenzene	7.72	7.22	8.22	7.72	0.00
76 d4-1,4-Dichlorobe	9.40	8.90	9.90	9.40	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: LCS0303
Level: LOW
Data Type: MS DATA
SpikeList File: allspike.spk
Sublist File: voa.sub
Method File: /chem1/nt10.i/03MAR10.b/82600122L.m
Misc Info: 10-

Client SDG: 03MAR10
Fraction: VOA
Client Smp ID: LCS0303
Operator: ar
SampleType: LCS
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1 Dichlorodifluorome	10.000	15.439	154.39*	59-129
2 Chloromethane	10.000	11.038	110.38	66-123
3 Vinyl Chloride	10.000	12.577	125.77*	68-121
4 Bromomethane	10.000	11.124	111.24	55-148
5 Chloroethane	10.000	12.047	120.47	47-155
6 Trichlorofluoromet	10.000	12.121	121.21	70-129
8 Acrolein	10.000	4.320	43.20	24-170
9 112Trichloro122Tri	10.000	11.512	115.12	74-127
10 Acetone	10.000	13.143	131.43*	70-130
11 1,1-Dichloroethene	10.000	11.472	114.72	72-120
12 Bromoethane	10.000	11.134	111.34	73-131
13 Iodomethane	10.000	9.364	93.64	34-183
14 Methylene Chloride	10.000	11.337	113.37	70-124
15 Acrylonitrile	10.000	10.032	100.32	71-135
17 Carbon Disulfide	10.000	10.396	103.96	66-129
16 Methyl tert butyl	20.000	20.705	103.53	78-120
18 Trans-1,2-Dichloro	10.000	10.939	109.39	76-120
20 Vinyl Acetate	10.000	7.800	78.00	49-134
21 1,1-Dichloroethane	10.000	10.647	106.47	75-120
22 2-Butanone	10.000	20.001	200.01*	78-131
23 2,2-Dichloropropan	10.000	10.205	102.05	68-121
24 Cis-1,2-Dichloroet	10.000	10.071	100.71	80-120
26 Chloroform	10.000	10.483	104.83	78-120
27 Bromochloromethane	20.000	20.730	103.65	79-120
29 1,1,1-Trichloroeth	10.000	10.920	109.20	76-120
30 1,1-Dichloropropen	10.000	10.725	107.25	78-120
31 Carbon Tetrachlori	10.000	11.004	110.04	70-126
33 1,2-Dichloroethane	10.000	10.558	105.58	78-120
34 Benzene	10.000	10.444	104.44	79-120
36 Trichloroethene	10.000	11.198	111.98	78-120
37 1,2-Dichloropropan	10.000	10.368	103.68	80-120
38 Bromodichlorometha	10.000	10.658	106.58	78-120
39 Dibromomethane	10.000	10.582	105.82	80-120

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
40 2-Chloroethyl Viny	10.000	11.771	117.71	68-134
41 4-Methyl-2-Pentano	10.000	9.383	93.83	73-131
42 Cis 1,3-dichloropr	10.000	10.692	106.92	78-120
44 Toluene	10.000	10.492	104.92	79-120
45 Trans 1,3-Dichloro	10.000	10.741	107.41	75-120
46 2-Hexanone	10.000	10.104	101.04	75-130
47 1,1,2-Trichloroeth	10.000	10.326	103.26	79-120
48 1,3-Dichloropropan	10.000	10.805	108.05	78-120
49 Tetrachloroethene	10.000	10.654	106.54	72-120
50 Chlorodibromometha	10.000	11.080	110.80	78-120
51 1,2-Dibromoethane	10.000	10.544	105.44	75-120
53 Chlorobenzene	10.000	10.842	108.42	79-120
55 1,1,1,2-Tetrachlor	10.000	10.739	107.39	75-120
54 Ethyl Benzene	10.000	10.846	108.46	78-120
56 m,p-xylene	20.000	22.004	110.02	65-129
58 o-Xylene	10.000	11.251	112.51	76-120
59 Styrene	10.000	10.909	109.09	74-121
60 Isopropyl Benzene	10.000	9.333	93.33	74-120
61 Bromoform	10.000	9.711	97.11	71-120
62 1,1,2,2-Tetrachlor	10.000	9.827	98.27	70-120
64 1,2,3-Trichloropro	10.000	9.509	95.09	73-120
65 Trans-1,4-Dichloro	10.000	9.774	97.74	65-135
66 N-Propyl Benzene	10.000	9.640	96.40	76-121
67 Bromobenzene	10.000	9.155	91.55	72-120
68 1,3,5-Trimethyl Be	10.000	10.058	100.58	74-123
69 2-Chloro Toluene	10.000	9.513	95.13	74-120
70 4-Chloro Toluene	10.000	9.609	96.09	75-120
71 T-Butyl Benzene	10.000	9.836	98.36	73-121
72 1,2,4-Trimethylben	10.000	10.287	102.87	73-124
73 S-Butyl Benzene	10.000	10.258	102.58	75-123
74 4-Isopropyl Toluen	10.000	10.782	107.82	71-125
75 1,3-Dichlorobenzen	10.000	10.430	104.30	72-120
77 1,4-Dichlorobenzen	10.000	10.490	104.90	76-120
78 N-Butyl Benzene	10.000	11.239	112.39	72-124
80 1,2-Dichlorobenzen	10.000	10.452	104.52	75-120
81 1,2-Dibromo 3-Chlo	10.000	9.870	98.70	67-121
82 1,2,4-Trichloroben	10.000	8.869	88.69	71-120
83 Hexachloro 1,3-But	10.000	9.285	92.85	67-124
84 Naphthalene	10.000	8.873	88.73	71-125
85 1,2,3-Trichloroben	10.000	9.302	93.02	61-134

SURROGATE COMPOUND	AMOUNT ADDED ug/L	AMOUNT RECOVERED ug/L	% RECOVERED	LIMITS
$ 28 Dibromofluorometha	10.000	10.022	100.22	60-130

SURROGATE COMPOUND	AMOUNT ADDED ug/L	AMOUNT RECOVERED ug/L	% RECOVERED	LIMITS
$ 32 d4-1,2-Dichloroeth	10.000	10.452	104.52	80-143
$ 43 d8-Toluene	10.000	10.326	103.26	80-120
$ 63 4-Bromofluorobenze	10.000	10.736	107.36	80-120
$ 79 d4-1,2-Dichloroben	10.000	9.977	99.77	80-120

Data File: /chem1/nt10.i/03MAR10.b/lcs0303a.d

Date : 03-MAR-2010 13:36

Client ID: LCS0303

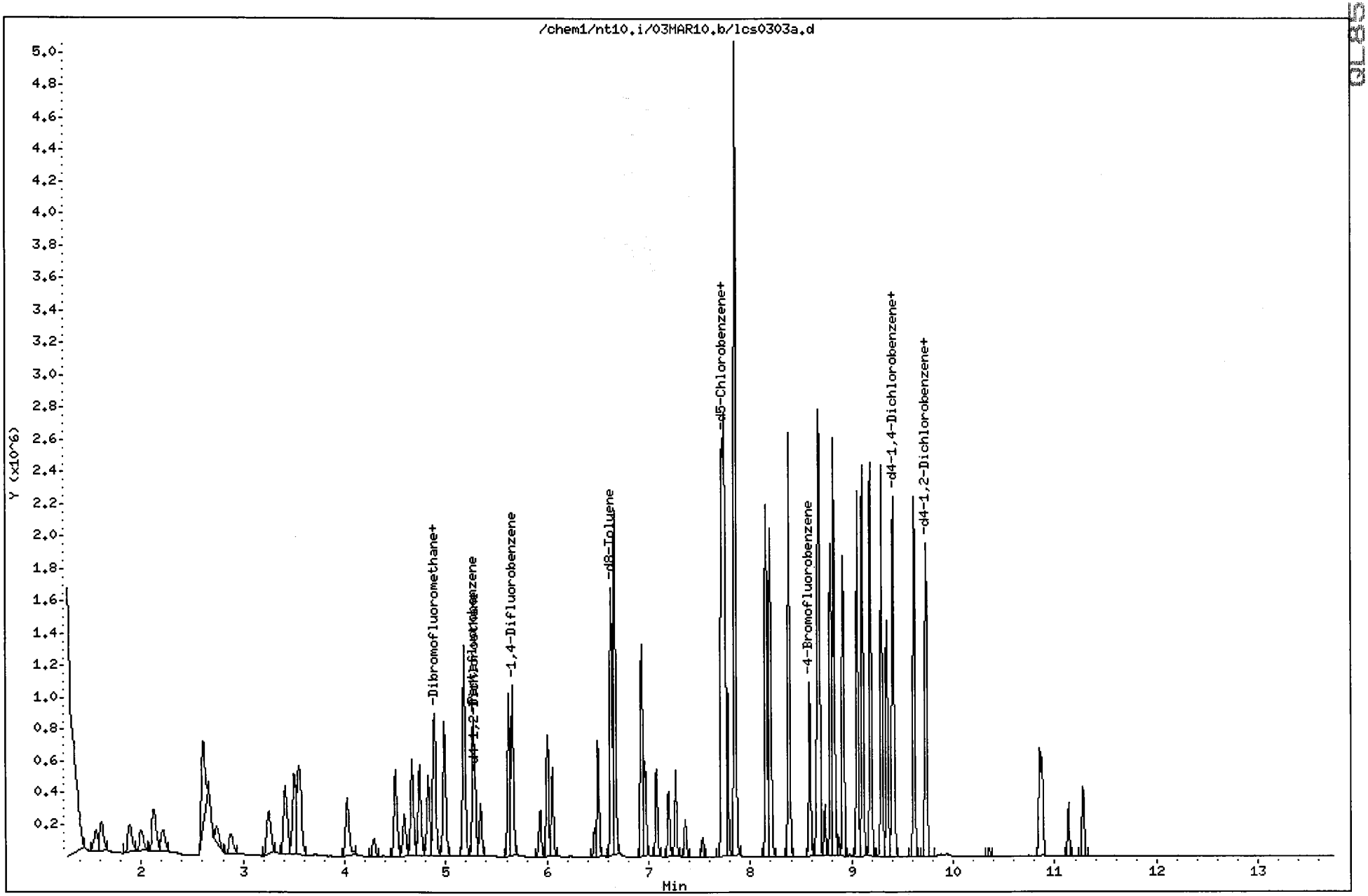
Sample Info: LCS0303,10,10,0

Column phase: RTX502.2

Instrument: nt10.i

Operator: ar

Column diameter: 0.18



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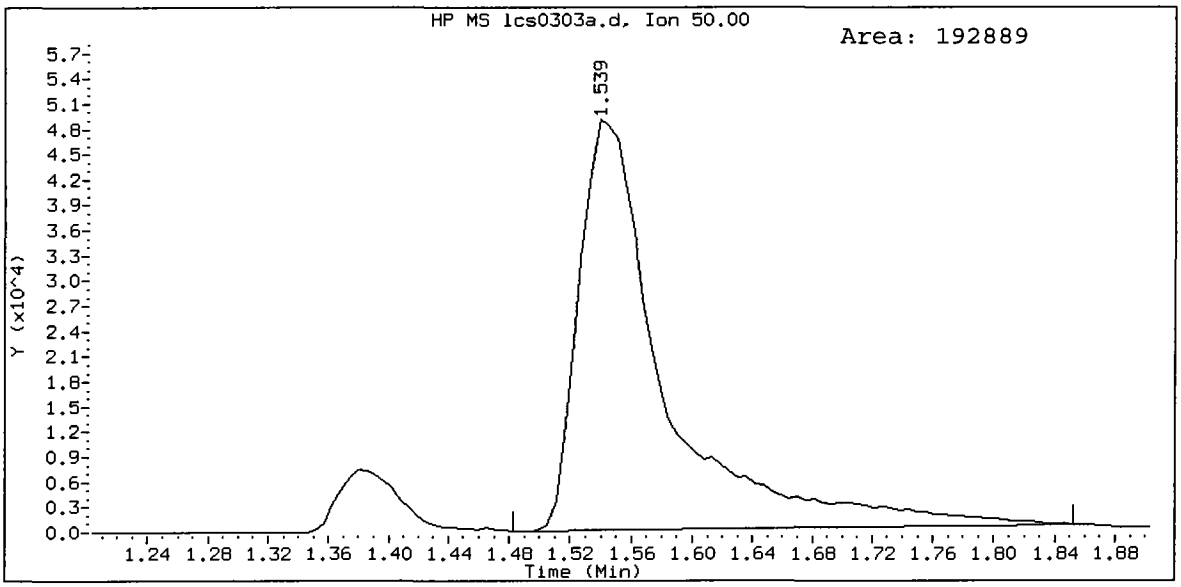
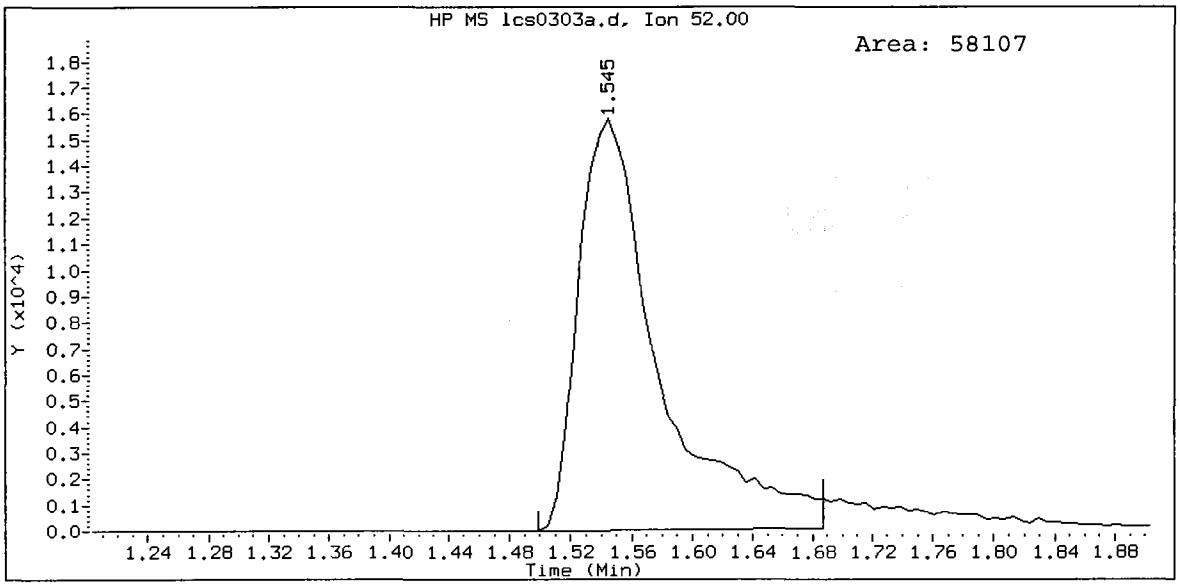
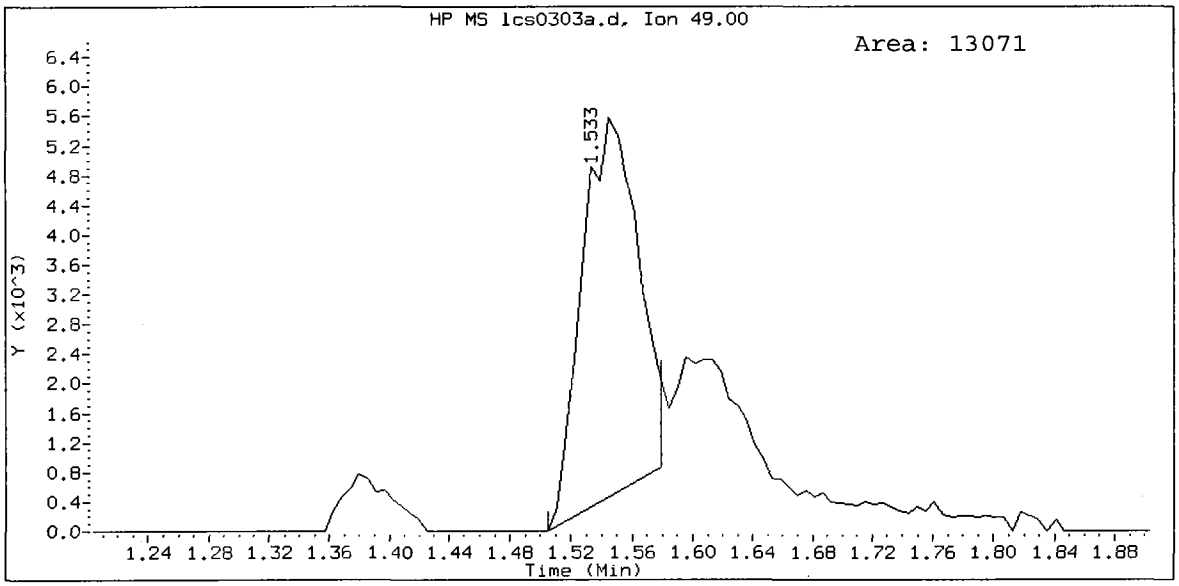
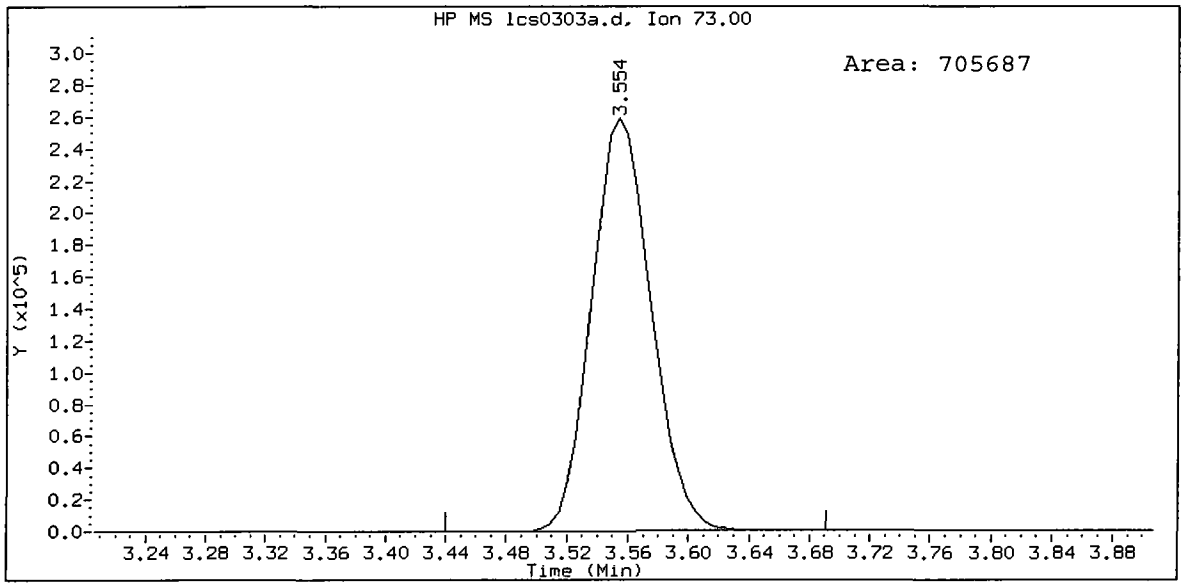
Chloromethane Amount: 11.04

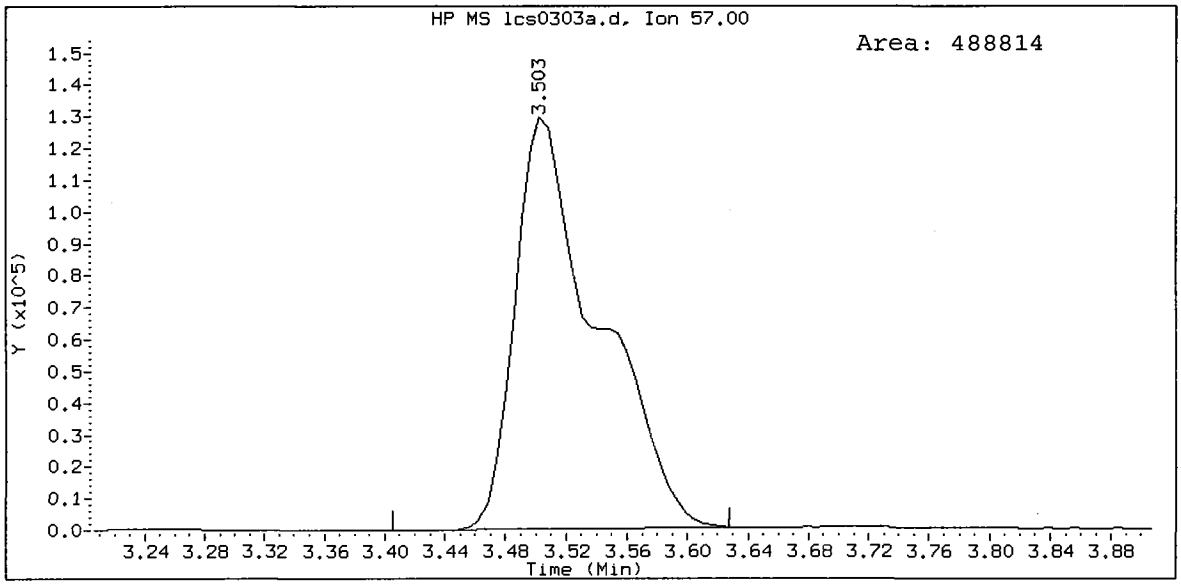


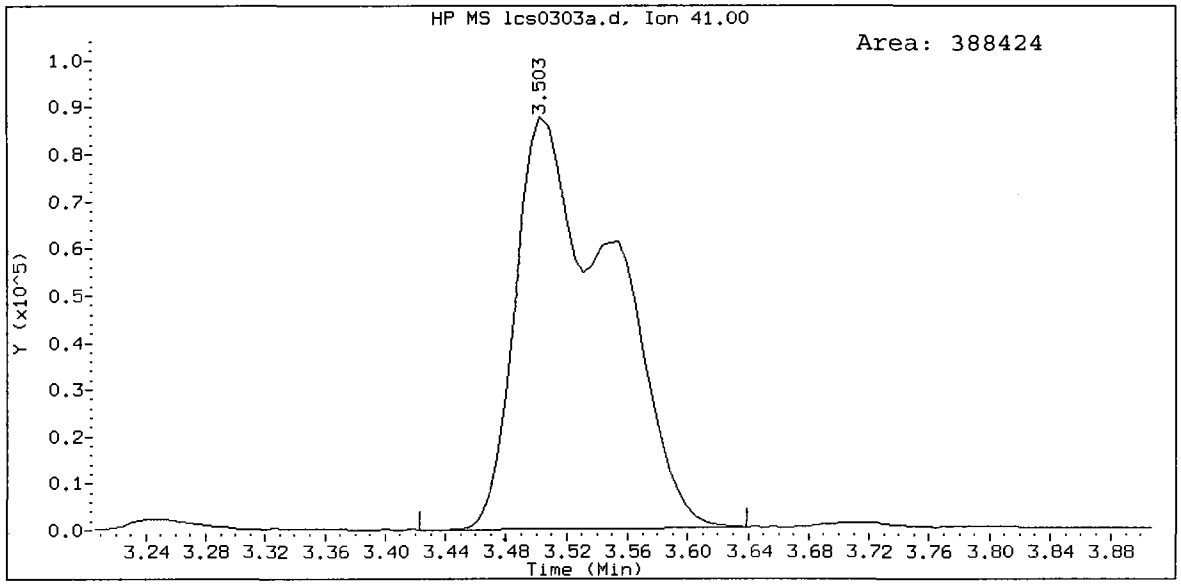




LCS0303, /chem1/nt10.i/03MAR10.b/lcs0303a.d
Methyl tert butyl ether Amount: 20.71







ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: MB-030910**
METHOD BLANK
Page 1 of 1

Lab Sample ID: MB-030910
LIMS ID: 10-4944
Matrix: Water
Data Release Authorized:
Reported: 03/11/10

QC Report No: QL85-Floyd-Snider
Project: Lora Lakes Apartments
POS-LLA
Date Sampled: NA
Date Received: NA

Instrument/Analyst: NT5/PKC
Date Analyzed: 03/09/10 20:41

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.2	< 0.2	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	100%

PC 3/10/10

Analytical Resources, Inc.

SW8260C 10 ML

Data file : /chem1/nt5.i/09MAR10A.b/03091024.d
Lab Smp Id: MB0309A Client Smp ID: MB0309A
Inj Date : 09-MAR-2010 20:41
Operator : PC Inst ID: nt5.i
Smp Info : MB0309A,10,10,0,
Misc Info : 10-
Comment :
Method : /chem1/nt5.i/09MAR10A.b/8260c030910L.m
Meth Date : 10-Mar-2010 11:28 paul Quant Type: ISTD
Cal Date : 09-MAR-2010 16:45 Cal File: 03091017.d
Als bottle: 1 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	10.00000	Purge Volume (mL)
Sa	10.00000	Sample Amount (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
1 Dichlorodifluoromethane	85	Compound Not Detected.					
2 Chloromethane	50	Compound Not Detected.					
3 Vinyl Chloride	62	Compound Not Detected.					
4 Bromomethane	94	Compound Not Detected.					
5 Chloroethane	64	Compound Not Detected.					
6 Trichlorofluoromethane	101	Compound Not Detected.					
12 Acrolein	56	Compound Not Detected.					
9 112Trichloro122Trifluoroethane	101	Compound Not Detected.					
14 Acetone	43	Compound Not Detected.					
7 1,1-Dichloroethene	96	Compound Not Detected.					
11 Bromoethane	108	Compound Not Detected.					
10 Iodomethane	142	Compound Not Detected.					
13 Methylene Chloride	84	2.533	2.522	(0.534)	4040	0.11317	0.1132(Q)
18 Acrylonitrile	53	Compound Not Detected.					
16 Methyl tert butyl ether	73	Compound Not Detected.					
8 Carbon Disulfide	76	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
	15 Trans-1,2-Dichloroethene	96	Compound Not Detected.					
	19 Vinyl Acetate	43	Compound Not Detected.					
	17 1,1-Dichloroethane	63	Compound Not Detected.					
	29 2-Butanone	72	Compound Not Detected.					
	21 2,2-Dichloropropane	77	Compound Not Detected.					
	20 Cis-1,2-Dichloroethene	96	Compound Not Detected.					
*	32 Pentafluorobenzene	168	4.745	4.739	(1.000)	508755	10.0000	
	23 Chloroform	83	Compound Not Detected.					
	22 Bromochloromethane	128	Compound Not Detected.					
$	25 Dibromofluoromethane	111	4.264	4.264	(0.899)	239474	10.0789	10.079
	26 1,1,1-Trichloroethane	97	Compound Not Detected.					
	28 1,1-Dichloropropene	75	Compound Not Detected.					
	24 Carbon Tetrachloride	117	Compound Not Detected.					
$	31 d4-1,2-Dichloroethane	65	4.734	4.728	(0.998)	270361	10.0009	10.001
	33 1,2-Dichloroethane	62	Compound Not Detected.					
	30 Benzene	78	Compound Not Detected.					
*	35 1,4-Difluorobenzene	114	5.186	5.186	(1.000)	971922	10.0000	
	34 Trichloroethene	130	Compound Not Detected.					
	38 1,2-Dichloropropane	63	Compound Not Detected.					
	39 Bromodichloromethane	83	Compound Not Detected.					
	37 Dibromomethane	93	Compound Not Detected.					
	40 2-Chloroethyl Vinyl Ether	63	Compound Not Detected.					
	45 4-Methyl-2-Pentanone	58	Compound Not Detected.					
	41 Cis 1,3-dichloropropene	75	Compound Not Detected.					
$	42 d8-Toluene	98	6.346	6.346	(1.224)	1123647	9.94305	9.943
	43 Toluene	92	Compound Not Detected.					
	46 Trans 1,3-Dichloropropene	75	Compound Not Detected.					
	51 2-Hexanone	43	Compound Not Detected.					
	47 1,1,2-Trichloroethane	97	Compound Not Detected.					
	49 1,3-Dichloropropane	76	Compound Not Detected.					
	44 Tetrachloroethene	166	Compound Not Detected.					
	48 Chlorodibromomethane	129	Compound Not Detected.					
	50 1,2-Dibromoethane	107	Compound Not Detected.					
*	52 d5-Chlorobenzene	117	7.647	7.647	(1.000)	852684	10.0000	
	53 Chlorobenzene	112	Compound Not Detected.					
	54 Ethyl Benzene	91	Compound Not Detected.					
	55 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
	56 m,p-xylene	106	Compound Not Detected.					
	57 o-Xylene	106	Compound Not Detected.					
	58 Styrene	104	Compound Not Detected.					
	60 Isopropyl Benzene	105	Compound Not Detected.					
	59 Bromoform	173	Compound Not Detected.					
	64 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
$	61 4-Bromofluorobenzene	95	8.716	8.716	(1.140)	393777	9.70332	9.703
	66 1,2,3-Trichloropropane	110	Compound Not Detected.					
	68 Trans-1,4-Dichloro 2-Butene	53	Compound Not Detected.					
	63 N-Propyl Benzene	91	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)	
	62 Bromobenzene	156	Compound Not Detected.						
	67 1,3,5-Trimethyl Benzene	105	Compound Not Detected.						
	65 2-Chloro Toluene	91	Compound Not Detected.						
	69 4-Chloro Toluene	91	Compound Not Detected.						
	70 T-Butyl Benzene	119	Compound Not Detected.						
	71 1,2,4-Trimethylbenzene	105	Compound Not Detected.						
	72 S-Butyl Benzene	105	Compound Not Detected.						
	73 4-Isopropyl Toluene	119	Compound Not Detected.						
	74 1,3-Dichlorobenzene	146	Compound Not Detected.						
*	75 d4-1,4-Dichlorobenzene	152	9.712	9.712	(1.000)	377268	10.0000		(Q)
	76 1,4-Dichlorobenzene	146	Compound Not Detected.						
	77 N-Butyl Benzene	91	Compound Not Detected.						
$	78 d4-1,2-Dichlorobenzene	152	10.091	10.091	(1.039)	325446	9.79776	9.798	
	79 1,2-Dichlorobenzene	146	Compound Not Detected.						
	81 1,2-Dibromo 3-Chloropropane	75	Compound Not Detected.						
	83 1,2,4-Trichlorobenzene	180	11.499	11.494	(1.184)	7004	0.19821	0.1982	
	82 Hexachloro 1,3-Butadiene	225	Compound Not Detected.						
	84 Naphthalene	128	11.799	11.799	(1.215)	15980	0.21942	0.2194	
	85 1,2,3-Trichlorobenzene	180	11.975	11.975	(1.233)	6050	0.21540	0.2154	

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt5.i
Lab File ID: 03091024.d
Lab Smp Id: MB0309A
Analysis Type: VOA
Quant Type: ISTD
Operator: PC
Method File: /chem1/nt5.i/09MAR10A.b/8260c030910L.m
Misc Info: 10-

Calibration Date: 09-MAR-2010
Calibration Time: 18:59
Client Smp ID: MB0309A
Level: LOW
Sample Type: WATER

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
32 Pentafluorobenzen	526014	263007	1052028	508755	-3.28
35 1,4-Difluorobenze	985179	492590	1970358	971922	-1.35
52 d5-Chlorobenzene	845025	422512	1690050	852684	0.91
75 d4-1,4-Dichlorobe	383446	191723	766892	377268	-1.61

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
32 Pentafluorobenzen	4.74	4.24	5.24	4.75	0.12
35 1,4-Difluorobenze	5.19	4.69	5.69	5.19	0.00
52 d5-Chlorobenzene	7.65	7.15	8.15	7.65	0.00
75 d4-1,4-Dichlorobe	9.71	9.21	10.21	9.71	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: MB0309A
Level: LOW
Data Type: MS DATA
SpikeList File: all.spk
Sublist File: voa.sub
Method File: /chem1/nt5.i/09MAR10A.b/8260c030910L.m
Misc Info: 10-

Client SDG: 09MAR10A
Fraction: VOA
Client Smp ID: MB0309A
Operator: PC
SampleType: BLANK
Quant Type: ISTD

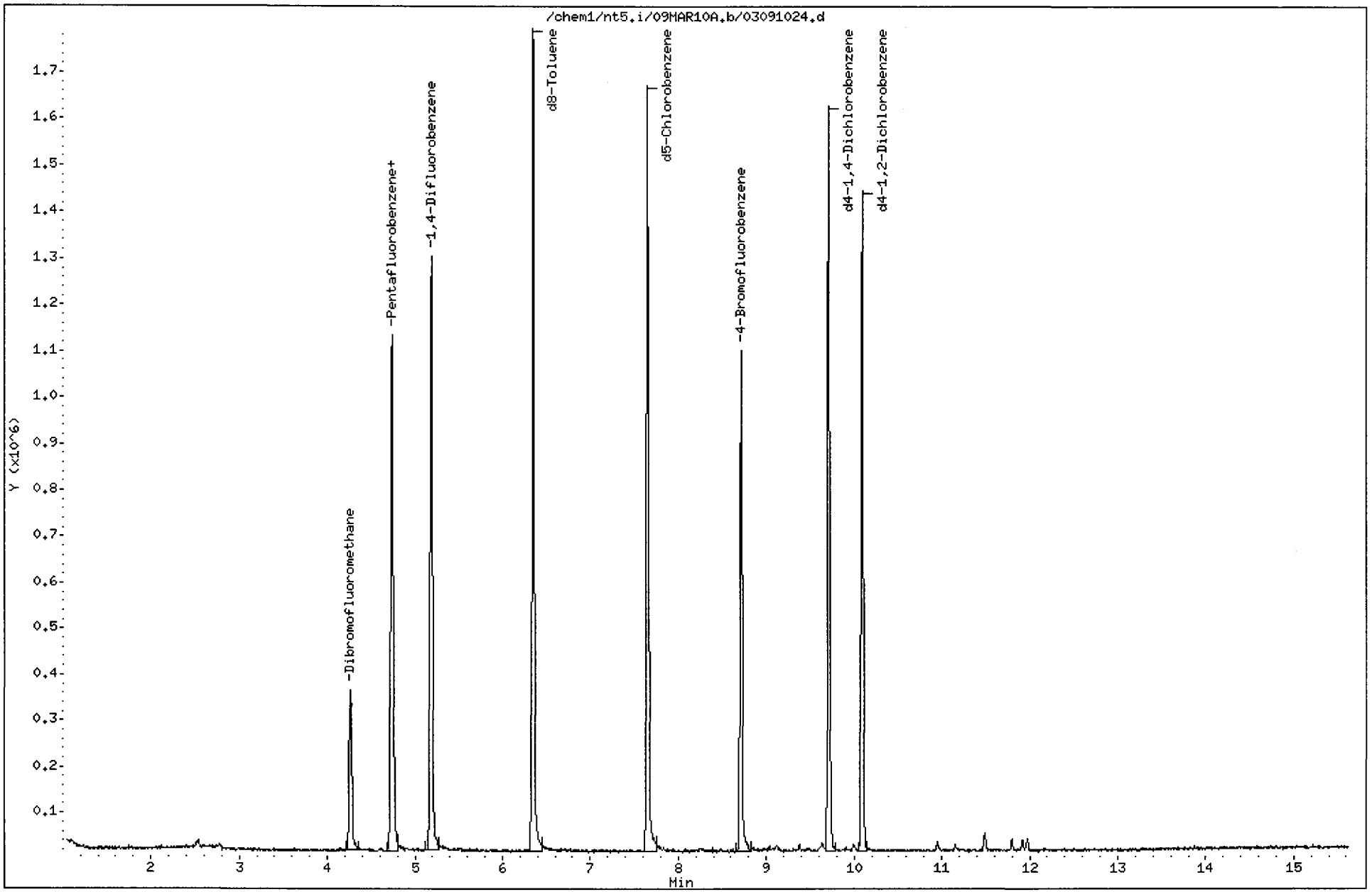
SURROGATE COMPOUND	AMOUNT ADDED ug/L	AMOUNT RECOVERED ug/L	% RECOVERED	LIMITS
$ 25 Dibromofluorometha	10.000	10.079	100.79	64-133
$ 31 d4-1,2-Dichloroeth	10.000	10.001	100.01	80-132
$ 42 d8-Toluene	10.000	9.943	99.43	80-120
$ 61 4-Bromofluorobenze	10.000	9.703	97.03	80-120
$ 78 d4-1,2-Dichloroben	10.000	9.798	97.98	80-120

Data File: /chem1/nt5.i/09MAR10A.b/03091024.d
Date : 09-MAR-2010 20:41
Client ID: MB0309A
Sample Info: MB0309A,10,10,0,

Column phase: RTXVMS

Instrument: nt5.i

Operator: PC
Column diameter: 0.18



PC 3/10/10

Analytical Resources, Inc.

SW8260C 10 ML

Data file : /chem1/nt5.i/09MAR10A.b/03091021.d
Lab Smp Id: LCS0309 Client Smp ID: LCS0309
Inj Date : 09-MAR-2010 19:24
Operator : PC Inst ID: nt5.i
Smp Info : LCS0309,10,10,0,
Misc Info : 10-
Comment :
Method : /chem1/nt5.i/09MAR10A.b/8260c030910L.m
Meth Date : 10-Mar-2010 11:27 paul Quant Type: ISTD
Cal Date : 09-MAR-2010 16:45 Cal File: 03091017.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	10.00000	Purge Volume (mL)
Sa	10.00000	Sample Amount (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
1 Dichlorodifluoromethane	85	1.034	1.034	(0.218)	185942	9.06868	9.069
2 Chloromethane	50	1.158	1.159	(0.244)	414532	10.1334	10.133
3 Vinyl Chloride	62	1.221	1.221	(0.258)	448494	9.95932	9.959
4 Bromomethane	94	1.447	1.441	(0.305)	201071	8.56386	8.564
5 Chloroethane	64	1.537	1.538	(0.324)	271747	9.41080	9.411
6 Trichlorofluoromethane	101	1.645	1.645	(0.347)	444925	10.0737	10.074
12 Acrolein	56	2.318	2.318	(0.489)	16154	10.6648	10.665
9 112Trichloro122Trifluoroethane	101	2.086	2.086	(0.440)	362405	10.3798	10.380
14 Acetone	43	2.590	2.590	(0.546)	54890	10.5000	10.500
7 1,1-Dichloroethene	96	2.035	2.041	(0.429)	334432	10.1208	10.121
11 Bromoethane	108	2.245	2.245	(0.474)	249588	10.2728	10.273
10 Iodomethane	142	2.143	2.143	(0.452)	415248	9.98047	9.980
13 Methylene Chloride	84	2.522	2.522	(0.532)	381287	10.5221	10.522
18 Acrylonitrile	53	3.348	3.348	(0.706)	73955	10.1354	10.135
16 Methyl tert butyl ether	73	2.799	2.799	(0.591)	1688621	19.9138	19.914
8 Carbon Disulfide	76	2.047	2.047	(0.432)	1325384	10.4007	10.401

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
	15 Trans-1,2-Dichloroethene	96	2.675	2.669	(0.564)	376921	10.2328	10.233
	19 Vinyl Acetate	43	3.591	3.591	(0.758)	470927	9.96015	9.960
	17 1,1-Dichloroethane	63	3.285	3.285	(0.693)	746909	10.1472	10.147
	29 2-Butanone	72	4.394	4.406	(0.927)	42162	9.54673	9.547
	21 2,2-Dichloropropane	77	3.919	3.919	(0.827)	614264	10.5621	10.562
	20 Cis-1,2-Dichloroethene	96	3.823	3.823	(0.807)	388112	10.0790	10.079
*	32 Pentafluorobenzene	168	4.739	4.739	(1.000)	516416	10.0000	
	23 Chloroform	83	4.100	4.100	(0.865)	648945	10.2284	10.228
	22 Bromochloromethane	128	4.004	4.004	(0.845)	287490	19.6656	19.666
$	25 Dibromofluoromethane	111	4.264	4.264	(0.900)	248778	10.3152	10.315
	26 1,1,1-Trichloroethane	97	4.264	4.264	(0.900)	552703	10.1348	10.135
	28 1,1-Dichloropropene	75	4.383	4.383	(0.845)	574510	10.3282	10.328
	24 Carbon Tetrachloride	117	4.196	4.196	(0.809)	439449	9.93701	9.937
$	31 d4-1,2-Dichloroethane	65	4.728	4.728	(0.998)	276734	10.0848	10.085
	33 1,2-Dichloroethane	62	4.790	4.790	(0.924)	411819	9.94736	9.947
	30 Benzene	78	4.604	4.604	(0.888)	1709794	10.4033	10.403
*	35 1,4-Difluorobenzene	114	5.186	5.186	(1.000)	975738	10.0000	
	34 Trichloroethene	130	5.135	5.135	(0.990)	366616	10.2132	10.213
	38 1,2-Dichloropropane	63	5.577	5.577	(1.075)	421784	9.87738	9.877
	39 Bromodichloromethane	83	5.650	5.650	(1.089)	446405	9.96125	9.961
	37 Dibromomethane	93	5.486	5.486	(1.058)	156194	9.98684	9.987
	40 2-Chloroethyl Vinyl Ether	63	6.170	6.171	(1.190)	170993	9.82287	9.823
	45 4-Methyl-2-Pentanone	58	6.742	6.742	(1.300)	82541	9.47204	9.472
	41 Cis 1,3-dichloropropene	75	6.193	6.193	(1.194)	623697	10.2145	10.214
$	42 d8-Toluene	98	6.346	6.346	(1.224)	1130456	9.96418	9.964
	43 Toluene	92	6.391	6.391	(1.232)	1027452	10.2065	10.206
	46 Trans 1,3-Dichloropropene	75	6.753	6.753	(1.302)	478221	9.84897	9.849
	51 2-Hexanone	43	7.455	7.455	(0.975)	137047	9.69852	9.699
	47 1,1,2-Trichloroethane	97	6.883	6.883	(1.327)	237643	10.0061	10.006
	49 1,3-Dichloropropane	76	7.104	7.104	(0.929)	467816	10.1602	10.160
	44 Tetrachloroethene	166	6.702	6.708	(0.876)	327878	10.3631	10.363
	48 Chlorodibromomethane	129	7.019	7.019	(0.918)	249393	10.0437	10.044
	50 1,2-Dibromoethane	107	7.200	7.200	(1.388)	211821	9.93288	9.933
*	52 d5-Chlorobenzene	117	7.647	7.647	(1.000)	838733	10.0000	
	53 Chlorobenzene	112	7.664	7.664	(1.002)	974325	10.0696	10.070
	54 Ethyl Benzene	91	7.709	7.709	(1.008)	1936030	10.6928	10.693
	55 1,1,1,2-Tetrachloroethane	131	7.726	7.726	(1.010)	313544	10.0940	10.094
	56 m,p-xylene	106	7.839	7.839	(1.025)	1449755	21.6692	21.669
	57 o-Xylene	106	8.201	8.201	(1.072)	692836	10.4449	10.445
	58 Styrene	104	8.252	8.252	(1.079)	1140760	10.7755	10.776
	60 Isopropyl Benzene	105	8.484	8.484	(0.874)	1805040	10.8808	10.881
	59 Bromoform	173	8.247	8.247	(0.849)	116279	10.2106	10.211
	64 1,1,2,2-Tetrachloroethane	83	8.920	8.920	(0.918)	256377	9.93857	9.939
$	61 4-Bromofluorobenzene	95	8.710	8.716	(1.139)	407545	10.2096	10.210
	66 1,2,3-Trichloropropane	110	9.022	9.022	(0.929)	60894	9.61132	9.611
	68 Trans-1,4-Dichloro 2-Butene	53	9.072	9.072	(0.934)	80652	10.2072	10.207
	63 N-Propyl Benzene	91	8.852	8.852	(0.911)	2194489	11.0412	11.041

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
62 Bromobenzene	156	8.790	8.790	(0.905)	328945	10.0256	10.026
67 1,3,5-Trimethyl Benzene	105	9.039	9.039	(0.931)	1442322	10.7301	10.730
65 2-Chloro Toluene	91	8.965	8.965	(0.923)	1285049	10.7700	10.770
69 4-Chloro Toluene	91	9.118	9.118	(0.939)	1314863	10.7521	10.752
70 T-Butyl Benzene	119	9.310	9.310	(0.959)	1198986	10.6229	10.623
71 1,2,4-Trimethylbenzene	105	9.378	9.378	(0.966)	1458062	10.8208	10.821
72 S-Butyl Benzene	105	9.468	9.474	(0.975)	1883611	10.8752	10.875
73 4-Isopropyl Toluene	119	9.610	9.610	(0.990)	1462509	10.8831	10.883
74 1,3-Dichlorobenzene	146	9.638	9.638	(0.992)	680580	10.1950	10.195
* 75 d4-1,4-Dichlorobenzene	152	9.712	9.712	(1.000)	388692	10.0000	
76 1,4-Dichlorobenzene	146	9.723	9.723	(1.001)	690125	10.0790	10.079(Q)
77 N-Butyl Benzene	91	9.995	9.995	(1.029)	1464319	10.9423	10.942
$ 78 d4-1,2-Dichlorobenzene	152	10.091	10.091	(1.039)	337343	9.85744	9.857
79 1,2-Dichlorobenzene	146	10.102	10.102	(1.040)	602912	9.95788	9.958
81 1,2-Dibromo 3-Chloropropane	75	10.843	10.843	(1.116)	41615	9.59894	9.599
83 1,2,4-Trichlorobenzene	180	11.494	11.494	(1.183)	363728	9.99095	9.991
82 Hexachloro 1,3-Butadiene	225	11.488	11.488	(1.183)	143280	10.2332	10.233
84 Naphthalene	128	11.799	11.799	(1.215)	736915	9.82107	9.821
85 1,2,3-Trichlorobenzene	180	11.974	11.975	(1.233)	289366	9.99947	9.999

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt5.i
Lab File ID: 03091021.d
Lab Smp Id: LCS0309
Analysis Type: VOA
Quant Type: ISTD
Operator: PC
Method File: /chem1/nt5.i/09MAR10A.b/8260c030910L.m
Misc Info: 10-

Calibration Date: 09-MAR-2010
Calibration Time: 18:59
Client Smp ID: LCS0309
Level: LOW
Sample Type: WATER

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
32 Pentafluorobenzen	526014	263007	1052028	516416	-1.82
35 1,4-Difluorobenze	985179	492590	1970358	975738	-0.96
52 d5-Chlorobenzene	845025	422512	1690050	838733	-0.74
75 d4-1,4-Dichlorobe	383446	191723	766892	388692	1.37

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
32 Pentafluorobenzen	4.74	4.24	5.24	4.74	0.00
35 1,4-Difluorobenze	5.19	4.69	5.69	5.19	0.00
52 d5-Chlorobenzene	7.65	7.15	8.15	7.65	0.00
75 d4-1,4-Dichlorobe	9.71	9.21	10.21	9.71	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: LCS0309
Level: LOW
Data Type: MS DATA
SpikeList File: all.spk
Sublist File: voa.sub
Method File: /chem1/nt5.i/09MAR10A.b/8260c030910L.m
Misc Info: 10-

Client SDG: 09MAR10A
Fraction: VOA
Client Smp ID: LCS0309
Operator: PC
SampleType: LCS
Quant Type: ISTD

SPIKE	COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1	Dichlorodifluorome	10.000	9.069	90.69	59-129
16	Methyl tert butyl	20.000	19.914	99.57	78-120
2	Chloromethane	10.000	10.133	101.33	66-123
3	Vinyl Chloride	10.000	9.959	99.59	68-121
4	Bromomethane	10.000	8.564	85.64	55-148
5	Chloroethane	10.000	9.411	94.11	47-155
6	Trichlorofluoromet	10.000	10.074	100.74	70-129
12	Acrolein	10.000	10.665	106.65	24-170
9	112Trichloro122Tri	10.000	10.380	103.80	74-127
14	Acetone	10.000	10.500	105.00	70-130
7	1,1-Dichloroethene	10.000	10.121	101.21	72-120
11	Bromoethane	10.000	10.273	102.73	73-131
10	Iodomethane	10.000	9.980	99.80	34-183
13	Methylene Chloride	10.000	10.522	105.22	70-124
8	Carbon Disulfide	10.000	10.401	104.01	66-129
18	Acrylonitrile	10.000	10.135	101.35	71-135
15	Trans-1,2-Dichloro	10.000	10.233	102.33	76-120
19	Vinyl Acetate	10.000	9.960	99.60	49-134
17	1,1-Dichloroethane	10.000	10.147	101.47	75-120
29	2-Butanone	10.000	9.547	95.47	78-131
21	2,2-Dichloropropan	10.000	10.562	105.62	68-121
20	Cis-1,2-Dichloroet	10.000	10.079	100.79	80-120
23	Chloroform	10.000	10.228	102.28	78-120
22	Bromochloromethane	20.000	19.666	98.33	79-120
26	1,1,1-Trichloroeth	10.000	10.135	101.35	76-120
28	1,1-Dichloropropen	10.000	10.328	103.28	78-120
24	Carbon Tetrachlori	10.000	9.937	99.37	70-126
33	1,2-Dichloroethane	10.000	9.947	99.47	78-120
30	Benzene	10.000	10.403	104.03	79-120
34	Trichloroethene	10.000	10.213	102.13	78-120
38	1,2-Dichloropropan	10.000	9.877	98.77	80-120
39	Bromodichlorometha	10.000	9.961	99.61	78-120
37	Dibromomethane	10.000	9.987	99.87	80-120

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
40 2-Chloroethyl Viny	10.000	9.823	98.23	68-134
45 4-Methyl-2-Pentano	10.000	9.472	94.72	73-131
41 Cis 1,3-dichloropr	10.000	10.214	102.14	78-120
43 Toluene	10.000	10.206	102.06	79-120
46 Trans 1,3-Dichloro	10.000	9.849	98.49	75-120
51 2-Hexanone	10.000	9.699	96.99	75-130
47 1,1,2-Trichloroeth	10.000	10.006	100.06	79-120
49 1,3-Dichloropropan	10.000	10.160	101.60	78-120
44 Tetrachloroethene	10.000	10.363	103.63	72-120
48 Chlorodibromometha	10.000	10.044	100.44	78-120
50 1,2-Dibromoethane	10.000	9.933	99.33	75-120
53 Chlorobenzene	10.000	10.070	100.70	79-120
55 1,1,1,2-Tetrachlor	10.000	10.094	100.94	75-120
54 Ethyl Benzene	10.000	10.693	106.93	78-121
56 m,p-xylene	20.000	21.669	108.35	65-129
57 o-Xylene	10.000	10.445	104.45	76-120
58 Styrene	10.000	10.776	107.76	74-121
60 Isopropyl Benzene	10.000	10.881	108.81	74-120
59 Bromoform	10.000	10.211	102.11	71-120
64 1,1,2,2-Tetrachlor	10.000	9.939	99.39	72-120
66 1,2,3-Trichloropro	10.000	9.611	96.11	73-120
68 Trans-1,4-Dichloro	10.000	10.207	102.07	65-135
63 N-Propyl Benzene	10.000	11.041	110.41	76-121
62 Bromobenzene	10.000	10.026	100.26	72-120
67 1,3,5-Trimethyl Be	10.000	10.730	107.30	74-123
65 2-Chloro Toluene	10.000	10.770	107.70	74-120
69 4-Chloro Toluene	10.000	10.752	107.52	75-120
70 T-Butyl Benzene	10.000	10.623	106.23	73-121
71 1,2,4-Trimethylben	10.000	10.821	108.21	73-124
72 S-Butyl Benzene	10.000	10.875	108.75	75-123
73 4-Isopropyl Toluen	10.000	10.883	108.83	71-125
74 1,3-Dichlorobenzen	10.000	10.195	101.95	72-120
76 1,4-Dichlorobenzen	10.000	10.079	100.79	76-120
77 N-Butyl Benzene	10.000	10.942	109.42	72-124
79 1,2-Dichlorobenzen	10.000	9.958	99.58	75-120
81 1,2-Dibromo 3-Chlo	10.000	9.599	95.99	67-121
83 1,2,4-Trichloroben	10.000	9.991	99.91	71-120
82 Hexachloro 1,3-But	10.000	10.233	102.33	67-124
84 Naphthalene	10.000	9.821	98.21	71-125
85 1,2,3-Trichloroben	10.000	9.999	99.99	61-134

SURROGATE COMPOUND	AMOUNT ADDED ug/L	AMOUNT RECOVERED ug/L	% RECOVERED	LIMITS
$ 25 Dibromofluorometha	10.000	10.315	103.15	64-133

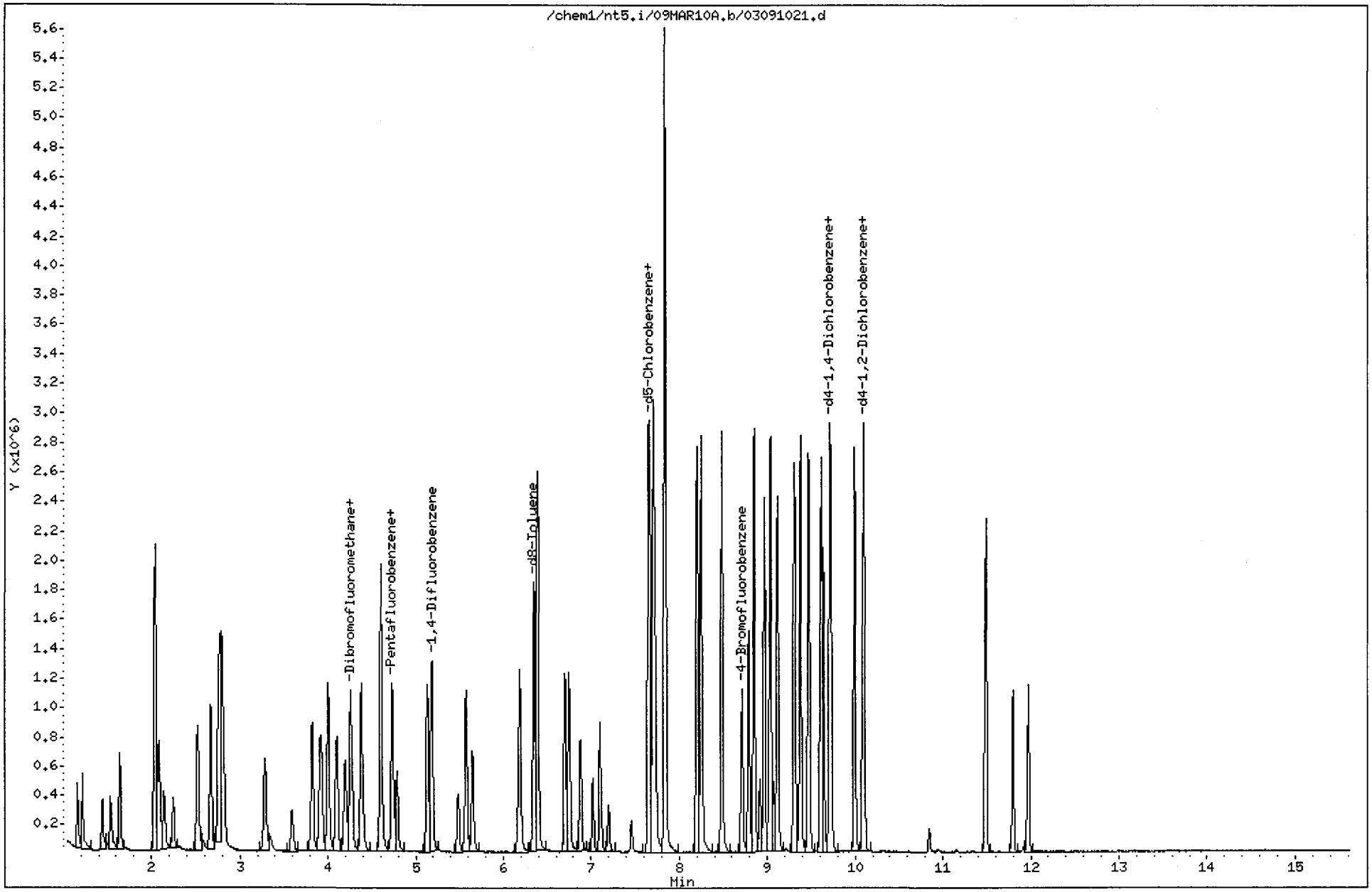
SURROGATE COMPOUND	AMOUNT ADDED ug/L	AMOUNT RECOVERED ug/L	% RECOVERED	LIMITS
$ 31 d4-1,2-Dichloroeth	10.000	10.085	100.85	80-132
$ 42 d8-Toluene	10.000	9.964	99.64	80-120
$ 61 4-Bromofluorobenze	10.000	10.210	102.10	80-120
$ 78 d4-1,2-Dichloroben	10.000	9.857	98.57	80-120

Data File: /chem1/nt5.i/09MAR10A.b/03091021.d
Date : 09-MAR-2010 19:24
Client ID: LCS0309
Sample Info: LCS0309,10,10,0,

Instrument: nt5.i

Operator: PC
Column diameter: 0.18

Column phase: RTXVMS



PC 3/10/10

Analytical Resources, Inc.

SW8260C 10 ML

Data file : /chem1/nt5.i/09MAR10A.b/03091022.d
Lab Smp Id: LCSD0309 Client Smp ID: LCSD0309
Inj Date : 09-MAR-2010 19:50
Operator : PC Inst ID: nt5.i
Smp Info : LCSD0309,10,10,0,
Misc Info : 10-
Comment :
Method : /chem1/nt5.i/09MAR10A.b/8260c030910L.m
Meth Date : 10-Mar-2010 11:27 paul Quant Type: ISTD
Cal Date : 09-MAR-2010 16:45 Cal File: 03091017.d
Als bottle: 1 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	10.00000	Purge Volume (mL)
Sa	10.00000	Sample Amount (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
1 Dichlorodifluoromethane	85	1.034	1.034	(0.218)	211528	9.90070	9.901
2 Chloromethane	50	1.164	1.159	(0.246)	412592	9.67943	9.679
3 Vinyl Chloride	62	1.226	1.221	(0.259)	436011	9.29183	9.292
4 Bromomethane	94	1.453	1.441	(0.306)	222114	9.07876	9.079
5 Chloroethane	64	1.543	1.538	(0.326)	280323	9.31644	9.316
6 Trichlorofluoromethane	101	1.651	1.645	(0.348)	448792	9.75163	9.752
12 Acrolein	56	2.318	2.318	(0.489)	14067	8.91228	8.912
9 112Trichloro122Trifluoroethane	101	2.092	2.086	(0.441)	360093	9.89782	9.898
14 Acetone	43	2.590	2.590	(0.546)	48426	8.88995	8.890
7 1,1-Dichloroethene	96	2.041	2.041	(0.431)	339109	9.84862	9.849
11 Bromoethane	108	2.250	2.245	(0.475)	250666	9.90132	9.901
10 Iodomethane	142	2.148	2.143	(0.453)	440764	10.1667	10.167
13 Methylene Chloride	84	2.527	2.522	(0.533)	368285	9.75356	9.754
18 Acrylonitrile	53	3.348	3.348	(0.706)	69018	9.07753	9.078
16 Methyl tert butyl ether	73	2.805	2.799	(0.592)	1659517	18.7817	18.782
8 Carbon Disulfide	76	2.047	2.047	(0.432)	1321611	9.95302	9.953

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
	15 Trans-1,2-Dichloroethene	96	2.675	2.669	(0.564)	369911	9.63764	9.638
	19 Vinyl Acetate	43	3.597	3.591	(0.759)	467666	9.49246	9.492
	17 1,1-Dichloroethane	63	3.291	3.285	(0.694)	748050	9.75303	9.753
	29 2-Butanone	72	4.400	4.406	(0.928)	40553	8.81209	8.812
	21 2,2-Dichloropropane	77	3.925	3.919	(0.828)	607610	10.0265	10.027
	20 Cis-1,2-Dichloroethene	96	3.823	3.823	(0.807)	393622	9.80996	9.810
*	32 Pentafluorobenzene	168	4.739	4.739	(1.000)	538108	10.0000	
	23 Chloroform	83	4.100	4.100	(0.865)	643883	9.73949	9.739
	22 Bromochloromethane	128	4.004	4.004	(0.845)	289018	18.9731	18.973
$	25 Dibromofluoromethane	111	4.264	4.264	(0.900)	247797	9.86034	9.860
	26 1,1,1-Trichloroethane	97	4.264	4.264	(0.900)	549844	9.67596	9.676
	28 1,1-Dichloropropene	75	4.383	4.383	(0.845)	572172	10.0914	10.091
	24 Carbon Tetrachloride	117	4.202	4.196	(0.810)	444015	9.85007	9.850
$	31 d4-1,2-Dichloroethane	65	4.728	4.728	(0.998)	277571	9.70757	9.708
	33 1,2-Dichloroethane	62	4.790	4.790	(0.924)	405208	9.60226	9.602
	30 Benzene	78	4.604	4.604	(0.888)	1702969	10.1655	10.166
*	35 1,4-Difluorobenzene	114	5.186	5.186	(1.000)	994577	10.0000	
	34 Trichloroethene	130	5.135	5.135	(0.990)	366844	10.0259	10.026
	38 1,2-Dichloropropane	63	5.577	5.577	(1.075)	421755	9.68961	9.690
	39 Bromodichloromethane	83	5.650	5.650	(1.089)	451850	9.89176	9.892
	37 Dibromomethane	93	5.486	5.486	(1.058)	153152	9.60690	9.607
	40 2-Chloroethyl Vinyl Ether	63	6.170	6.171	(1.190)	169418	9.54805	9.548
	45 4-Methyl-2-Pentanone	58	6.742	6.742	(1.300)	82408	9.27764	9.278
	41 Cis 1,3-dichloropropene	75	6.193	6.193	(1.194)	625158	10.0444	10.044
$	42 d8-Toluene	98	6.346	6.346	(1.224)	1143669	9.88969	9.890
	43 Toluene	92	6.391	6.391	(1.232)	1030771	10.0455	10.045
	46 Trans 1,3-Dichloropropene	75	6.753	6.753	(1.302)	491842	9.93762	9.938
	51 2-Hexanone	43	7.455	7.455	(0.975)	132854	9.38429	9.384
	47 1,1,2-Trichloroethane	97	6.883	6.883	(1.327)	234666	9.69362	9.694
	49 1,3-Dichloropropane	76	7.104	7.104	(0.929)	460669	9.98640	9.986
	44 Tetrachloroethene	166	6.708	6.708	(0.877)	324541	10.2385	10.239
	48 Chlorodibromomethane	129	7.019	7.019	(0.918)	251427	10.1068	10.107
	50 1,2-Dibromoethane	107	7.200	7.200	(1.388)	208423	9.58839	9.588
*	52 d5-Chlorobenzene	117	7.647	7.647	(1.000)	840294	10.0000	
	53 Chlorobenzene	112	7.664	7.664	(1.002)	989881	10.2114	10.211
	54 Ethyl Benzene	91	7.709	7.709	(1.008)	1925786	10.6165	10.616
	55 1,1,1,2-Tetrachloroethane	131	7.726	7.726	(1.010)	310122	9.96527	9.965
	56 m,p-xylene	106	7.839	7.839	(1.025)	1438926	21.4674	21.467
	57 o-Xylene	106	8.201	8.201	(1.072)	690924	10.3967	10.397
	58 Styrene	104	8.252	8.252	(1.079)	1130227	10.6562	10.656
	60 Isopropyl Benzene	105	8.484	8.484	(0.874)	1793828	10.6200	10.620
	59 Bromoform	173	8.247	8.247	(0.849)	113214	9.76392	9.764
	64 1,1,2,2-Tetrachloroethane	83	8.920	8.920	(0.918)	248556	9.46327	9.463
$	61 4-Bromofluorobenzene	95	8.716	8.716	(1.140)	415670	10.3938	10.394
	66 1,2,3-Trichloropropane	110	9.022	9.022	(0.929)	59634	9.24426	9.244
	68 Trans-1,4-Dichloro 2-Butene	53	9.072	9.072	(0.934)	78410	9.74622	9.746
	63 N-Propyl Benzene	91	8.852	8.852	(0.911)	2195785	10.8504	10.850

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
	62 Bromobenzene	156	8.790	8.790	(0.905)	331608	9.92626	9.926
	67 1,3,5-Trimethyl Benzene	105	9.039	9.039	(0.931)	1439284	10.5162	10.516
	65 2-Chloro Toluene	91	8.965	8.965	(0.923)	1291586	10.6315	10.631
	69 4-Chloro Toluene	91	9.118	9.118	(0.939)	1316930	10.5766	10.577
	70 T-Butyl Benzene	119	9.310	9.310	(0.959)	1208975	10.5201	10.520
	71 1,2,4-Trimethylbenzene	105	9.378	9.378	(0.966)	1452466	10.5867	10.587
	72 S-Butyl Benzene	105	9.474	9.474	(0.976)	1882072	10.6722	10.672
	73 4-Isopropyl Toluene	119	9.610	9.610	(0.990)	1460637	10.6750	10.675
	74 1,3-Dichlorobenzene	146	9.638	9.638	(0.992)	687299	10.1117	10.112
*	75 d4-1,4-Dichlorobenzene	152	9.712	9.712	(1.000)	395762	10.0000	
	76 1,4-Dichlorobenzene	146	9.723	9.723	(1.001)	693329	9.94490	9.945(Q)
	77 N-Butyl Benzene	91	9.995	9.995	(1.029)	1470401	10.7915	10.791
$	78 d4-1,2-Dichlorobenzene	152	10.091	10.091	(1.039)	342273	9.82284	9.823
	79 1,2-Dichlorobenzene	146	10.102	10.102	(1.040)	601514	9.75734	9.757
	81 1,2-Dibromo 3-Chloropropane	75	10.849	10.843	(1.117)	40799	9.24259	9.243
	83 1,2,4-Trichlorobenzene	180	11.494	11.494	(1.183)	359655	9.70262	9.703
	82 Hexachloro 1,3-Butadiene	225	11.488	11.488	(1.183)	143688	10.0790	10.079
	84 Naphthalene	128	11.799	11.799	(1.215)	735527	9.62748	9.627
	85 1,2,3-Trichlorobenzene	180	11.974	11.975	(1.233)	288782	9.80102	9.801

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt5.i
Lab File ID: 03091022.d
Lab Smp Id: LCSD0309
Analysis Type: VOA
Quant Type: ISTD
Operator: PC
Method File: /chem1/nt5.i/09MAR10A.b/8260c030910L.m
Misc Info: 10-

Calibration Date: 09-MAR-2010
Calibration Time: 18:59
Client Smp ID: LCSD0309
Level: LOW
Sample Type: WATER

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
32 Pentafluorobenzen	526014	263007	1052028	538108	2.30
35 1,4-Difluorobenze	985179	492590	1970358	994577	0.95
52 d5-Chlorobenzene	845025	422512	1690050	840294	-0.56
75 d4-1,4-Dichlorobe	383446	191723	766892	395762	3.21

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
32 Pentafluorobenzen	4.74	4.24	5.24	4.74	0.00
35 1,4-Difluorobenze	5.19	4.69	5.69	5.19	0.00
52 d5-Chlorobenzene	7.65	7.15	8.15	7.65	0.00
75 d4-1,4-Dichlorobe	9.71	9.21	10.21	9.71	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Client SDG: 09MAR10A
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id: LCSD0309 Client Smp ID: LCSD0309
Level: LOW Operator: PC
Data Type: MS DATA SampleType: LCSD
SpikeList File: all.spk Quant Type: ISTD
Sublist File: voa.sub
Method File: /chem1/nt5.i/09MAR10A.b/8260c030910L.m
Misc Info: 10-

SPIKE	COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1	Dichlorodifluorome	10.000	9.901	99.01	59-129
16	Methyl tert butyl	20.000	18.782	93.91	78-120
2	Chloromethane	10.000	9.679	96.79	66-123
3	Vinyl Chloride	10.000	9.292	92.92	68-121
4	Bromomethane	10.000	9.079	90.79	55-148
5	Chloroethane	10.000	9.316	93.16	47-155
6	Trichlorofluoromet	10.000	9.752	97.52	70-129
12	Acrolein	10.000	8.912	89.12	24-170
9	112Trichloro122Tri	10.000	9.898	98.98	74-127
14	Acetone	10.000	8.890	88.90	70-130
7	1,1-Dichloroethene	10.000	9.849	98.49	72-120
11	Bromoethane	10.000	9.901	99.01	73-131
10	Iodomethane	10.000	10.167	101.67	34-183
13	Methylene Chloride	10.000	9.754	97.54	70-124
8	Carbon Disulfide	10.000	9.953	99.53	66-129
18	Acrylonitrile	10.000	9.078	90.78	71-135
15	Trans-1,2-Dichloro	10.000	9.638	96.38	76-120
19	Vinyl Acetate	10.000	9.492	94.92	49-134
17	1,1-Dichloroethane	10.000	9.753	97.53	75-120
29	2-Butanone	10.000	8.812	88.12	78-131
21	2,2-Dichloropropan	10.000	10.027	100.27	68-121
20	Cis-1,2-Dichloroet	10.000	9.810	98.10	80-120
23	Chloroform	10.000	9.739	97.39	78-120
22	Bromochloromethane	20.000	18.973	94.87	79-120
26	1,1,1-Trichloroeth	10.000	9.676	96.76	76-120
28	1,1-Dichloropropen	10.000	10.091	100.91	78-120
24	Carbon Tetrachlori	10.000	9.850	98.50	70-126
33	1,2-Dichloroethane	10.000	9.602	96.02	78-120
30	Benzene	10.000	10.166	101.66	79-120
34	Trichloroethene	10.000	10.026	100.26	78-120
38	1,2-Dichloropropan	10.000	9.690	96.90	80-120
39	Bromodichlorometha	10.000	9.892	98.92	78-120
37	Dibromomethane	10.000	9.607	96.07	80-120

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
40 2-Chloroethyl Viny	10.000	9.548	95.48	68-134
45 4-Methyl-2-Pentano	10.000	9.278	92.78	73-131
41 Cis 1,3-dichloropr	10.000	10.044	100.44	78-120
43 Toluene	10.000	10.045	100.45	79-120
46 Trans 1,3-Dichloro	10.000	9.938	99.38	75-120
51 2-Hexanone	10.000	9.384	93.84	75-130
47 1,1,2-Trichloroeth	10.000	9.694	96.94	79-120
49 1,3-Dichloropropan	10.000	9.986	99.86	78-120
44 Tetrachloroethene	10.000	10.239	102.39	72-120
48 Chlorodibromometha	10.000	10.107	101.07	78-120
50 1,2-Dibromoethane	10.000	9.588	95.88	75-120
53 Chlorobenzene	10.000	10.211	102.11	79-120
55 1,1,1,2-Tetrachlor	10.000	9.965	99.65	75-120
54 Ethyl Benzene	10.000	10.616	106.16	78-121
56 m,p-xylene	20.000	21.467	107.34	65-129
57 o-Xylene	10.000	10.397	103.97	76-120
58 Styrene	10.000	10.656	106.56	74-121
60 Isopropyl Benzene	10.000	10.620	106.20	74-120
59 Bromoform	10.000	9.764	97.64	71-120
64 1,1,2,2-Tetrachlor	10.000	9.463	94.63	72-120
66 1,2,3-Trichloropro	10.000	9.244	92.44	73-120
68 Trans-1,4-Dichloro	10.000	9.746	97.46	65-135
63 N-Propyl Benzene	10.000	10.850	108.50	76-121
62 Bromobenzene	10.000	9.926	99.26	72-120
67 1,3,5-Trimethyl Be	10.000	10.516	105.16	74-123
65 2-Chloro Toluene	10.000	10.631	106.31	74-120
69 4-Chloro Toluene	10.000	10.577	105.77	75-120
70 T-Butyl Benzene	10.000	10.520	105.20	73-121
71 1,2,4-Trimethylben	10.000	10.587	105.87	73-124
72 S-Butyl Benzene	10.000	10.672	106.72	75-123
73 4-Isopropyl Toluen	10.000	10.675	106.75	71-125
74 1,3-Dichlorobenzen	10.000	10.112	101.12	72-120
76 1,4-Dichlorobenzen	10.000	9.945	99.45	76-120
77 N-Butyl Benzene	10.000	10.791	107.91	72-124
79 1,2-Dichlorobenzen	10.000	9.757	97.57	75-120
81 1,2-Dibromo 3-Chlo	10.000	9.243	92.43	67-121
83 1,2,4-Trichloroben	10.000	9.703	97.03	71-120
82 Hexachloro 1,3-But	10.000	10.079	100.79	67-124
84 Naphthalene	10.000	9.627	96.27	71-125
85 1,2,3-Trichloroben	10.000	9.801	98.01	61-134

SURROGATE COMPOUND	AMOUNT ADDED ug/L	AMOUNT RECOVERED ug/L	% RECOVERED	LIMITS
$ 25 Dibromofluorometha	10.000	9.860	98.60	64-133

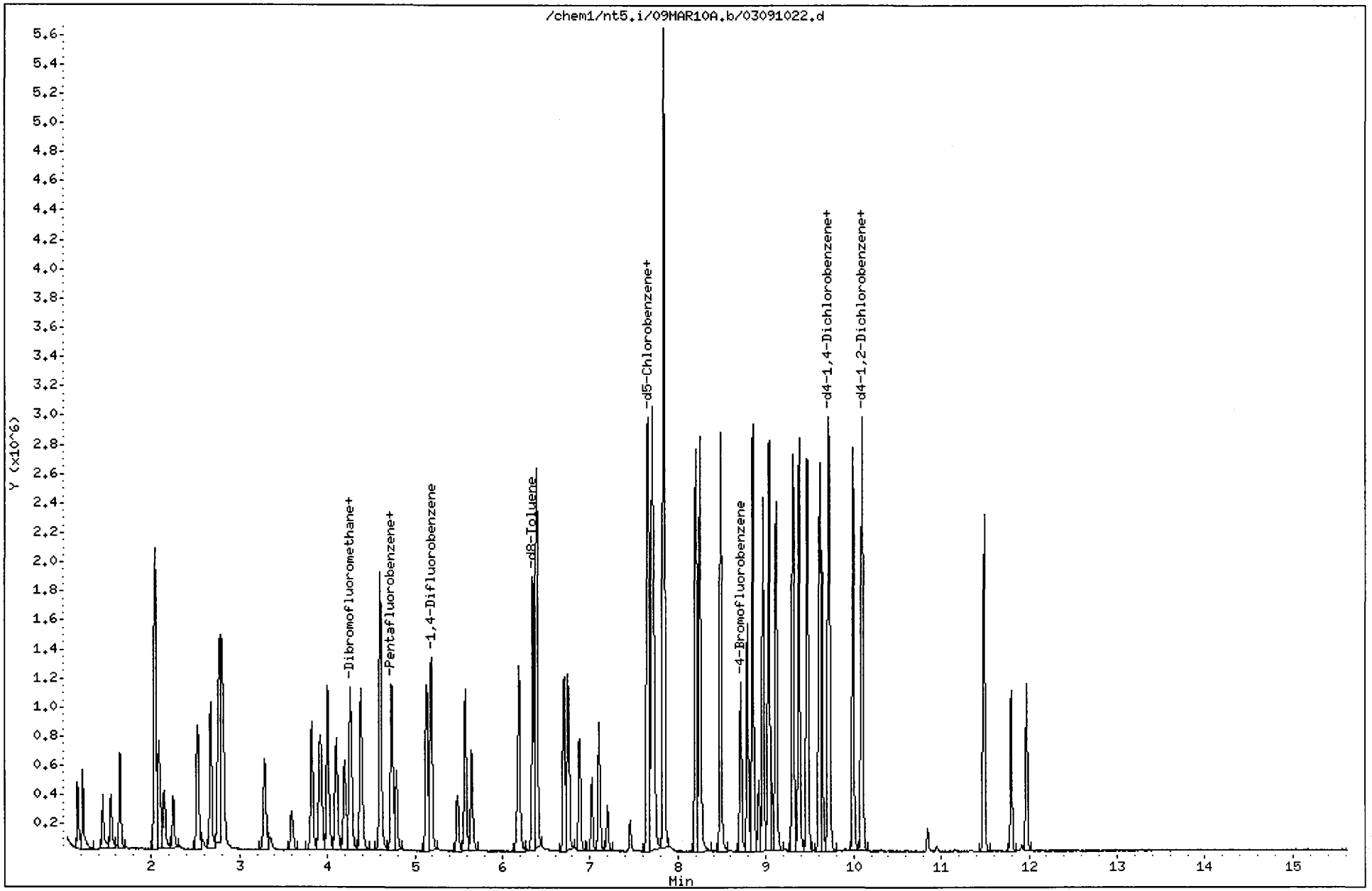
SURROGATE COMPOUND	AMOUNT ADDED ug/L	AMOUNT RECOVERED ug/L	% RECOVERED	LIMITS
$ 31 d4-1,2-Dichloroeth	10.000	9.708	97.08	80-132
$ 42 d8-Toluene	10.000	9.890	98.90	80-120
$ 61 4-Bromofluorobenze	10.000	10.394	103.94	80-120
$ 78 d4-1,2-Dichloroben	10.000	9.823	98.23	80-120

Data File: /chem1/nt5.i/09MAR10A.b/03091022.d
Date : 09-MAR-2010 19:50
Client ID: LCSD0309
Sample Info: LCSD0309,10,10,0,

Instrument: nt5.i

Operator: PC
Column diameter: 0.18

Column phase: RTXVMS



Volatile Analysis
Run Logs

prepared
for

Floyd-Snider

Project: Lora Lakes Apartments, POS-LLA

ARI JOB NO: QL85

prepared
by

Analytical Resources, Inc.

Analytical Resources Inc.: Volatile Organics Instrument Log

NT-10 Serial No.:GC=CN10837018, MS= US83131105

Date: 2/22/2010 Analysis: 8260 Analyst: [illegible]

GC Program: VOA10 Column No: 8658268 Column Type: [illegible]

Instrument Tune (.U or .CT.): bfb0222.d EM Voltage: 1153

Calibration File: 1000222.d Curve Date: 2/22/2010

IS/SS	Ical/Ccal	LCS/ICV
617-3	619-2&3	569-5
	614-5	614-2&3
	615-1	590-2
	617-1	589-1

INTERNAL STANDARD SUMMARY FOR DATABATCH - /chem1/nt10.i/22FEB10.b

Time	Filename	LabID	ClientID	WT								
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1342	rb0222.d	RB0222	RB0222	1	5.27	487067	5.66	763510	7.72	674057	9.40	23[illegible]
1412	icv0222.d	ICV0222	ICV0222	1	5.27	462518	5.65	741639	7.71	683017	9.40	23[illegible]
1442	0020222.d	IC002	vstd1	1	5.27	504659	5.65	802559	7.71	697183	9.40	23[illegible]
1512	6000222.d	IC600	vstd8	1	5.27	463099	5.66	749765	7.72	738803	9.41	21533
1542	4000222.d	IC400	vstd7	1	5.27	465690	5.66	755412	7.72	713354	9.41	213645
1611	4000222a.d	IC400	vstd7	1	5.27	442482	5.66	709206	7.72	684917	9.41	213572
1641	2000222.d	IC200	vstd6	1	5.27	451239	5.65	731744	7.72	685726	9.41	229111
1711	1000222.d	IC100	vstd4	1	5.27	456228	5.66	740651	7.72	686240	9.41	249963
1741	0400222.d	IC040	vstd5	1	5.27	405719	5.65	648113	7.72	610243	9.41	240346
1811	0100222.d	IC0I0	vstd3	1	5.27	433328	5.65	700220	7.72	634278	9.41	208032
1841	0050222.d	IC005	vstd2	1	5.27	407710	5.66	651788	7.72	599619	9.40	226696
1912	icv0222a.d	ICV0222	ICV0222	1	5.27	431492	5.66	702592	7.72	655186	9.40	236007
1941	rb0222a.d	RB0222	RB0222	1	5.27	404213	5.65	642864	7.71	572849	9.40	210210

AR 2/26/2010

Maintenance / Comments

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control):

Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

VOA Analyst Notes / Corrective Action Log

ARI Project ID: 8260 Curve Client ID: ARI

ARI SOP: **404S**(Gas) **410S**(BTEX) **430S**(VPH) **703S**(SIM) **706S**(524.2) **708S**(8260C) **710S**(MME)

Parameter(s): _____

Instrument: NT-3 NT-5 NT-7 NT-9 (NT-10) PID-1 PID-2 PID-3 FID-6 FINN-5

Purge Volume (mL) 10 Curve Date: 2/22/2010 Analysis Start Date: 2/22/2010

pH ≤ 2.0 YES / NO / (NA) Method Blank In Control? YES / NO (NA)

BFB Tune Meets Criteria? (YES) / NO / NA LCS / LCSD Recovery In Control? YES / NO (NA)

Internal Standard Meets Criteria? (YES) / NO / NA Surrogate Recovery In Control? (YES) / NO

Special Analysis Criteria Met? YES / NO / (NA)

ICal acceptable? (YES) / NO; Q flag applied? YES / NO / NA

CCal acceptable? (YES) / NO; Q flag applied? YES / NO / NA

Bubbles/Headspace: None SM (≤ 2mm •) PB (2-4mm) LG (> 4mm ●) Head Space (NA)

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

11. Curve Types: Bromomethane Linear-forced & Trans-1,4-dichloro ~~but~~-2-butene Quadratic-forced.

Ints Dropped: Chloromethane 0.2ppb (below 1ppb RL); Bromomethane 0.2 & 0.5ppb (below 1ppb RL); Acrolein 1ppb (below 5ppb RL); Acetone 1ppb (below 5ppb RL); Iodomethane 0.2ppb (below 1ppb RL); Acrylonitrile 0.2ppb (below 1ppb RL); 2CEVE 0.2ppb (below 1ppb RL); Trans-1,4-dichloro-2-butene 0.2 ~~ppb~~ & 0.5ppb (below 1ppb RL); Hexachloro-1,3-butadiene, Naphthalene & 1,2,3-trichlorobenzene 0.2ppb (below 0.5ppb RL)

Additional Details on Reverse: Yes / (No)

Analyst Signature: _____ **Date:** 2/23/2010

Reviewer's Signature: _____ **Date:** 2/23/10

Analytical Resources Inc.: Volatile Organics Instrument

NT-10 Serial No.:GC=CN10837018, MS= US83131705

Date: 3/3/2010 Analysis: 8260 Analyst: [illegible]

GC Program: VOA10 Column No: 8608266 Column Type: [illegible]

Instrument Tune (.U or .CT.): bfb 0303.b EM Voltage: [illegible]

Calibration File: 1000303.b Curve Date: 2/22/[illegible]

IS/SS	Ical/Ccal	LCS/ICV
617-3	619-2&3, 614-5, 615-1&6[illegible]	
	6237	

INTERNAL STANDARD SUMMARY FOR DATABATCH - /chem1/nt10.i/03MAR10.b

	Time	Filename	LabID	ClientID	WT							
1	1109	bfb0303.d	BFB0303	BFB0303	0.00							
2	1236	1000303.d	CC0303	CC0303	1 | 5.27	502975 | | 5.66	816624 | | 7.72	732973 | | 9.[illegible]				
3	1306	lcs0303.d	LCS0303	LCS0303	1 | 5.27	462403 | | 5.66	746307 | | 7.72	677091 | | 9.40				
4	1336	lcs0303a.d	LCS0303	LCS0303	1 | 5.27	465782 | | 5.66	745145 | | 7.72	681740 | | 9.40	[illegible]			
5	1406	mb0303.d	MB0303	MB0303	1 | 5.27	452862 | | 5.66	731344 | | 7.71	632400 | | 9.40	[illegible]			
6	1447	ql85e.d	QL85E	TB022610	1 | 5.27	461699 | | 5.66	739542 | | 7.71	641178 | | 9.40	[illegible]			
7	1517	ql85a.d	QL85A	CB31A022610GRAB	1 | 5.27	458523 | | 5.66	735174 | | 7.71	645473 | | 9.40	250478			
8	1750	ql85b.d	QL85B	CB4857022610GRAB	1 | 5.27	466512 | | 5.66	699017 | | 7.72	505565 | | 9.40	160551			
9	1819	ql85c.d	QL85C	CB1022610GRAB	1 | 5.27	441246 | | 5.66	707633 | | 7.71	618913 | | 9.40	231758			
10	1849	ql85d.d	QL85D	CB102022610GRAB	1 | 5.27	433024 | | 5.66	696611 | | 7.72	608627 | | 9.40	223256			
11	1919	ql85ams.d	QL85A	CB31A022610GRAB MS	1 | 5.27	462920 | | 5.66	754857 | | 7.71	684793 | | 9.40	253771			
12	1948	ql85amsd.d	QL85A	CB31A022610GRAB MSD	1 | 5.27	451394 | | 5.66	736222 | | 7.71	671636 | | 9.40	250887			
13	2018	rb0303a.d	RB0303	RB0303	1 | 5.27	424076 | | 5.65	680238 | | 7.71	600215 | | 9.40	218351			

AR 3/5/2010

Maintenance / Comments

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control):

Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

VOA Analyst Notes / Corrective Action Log

ARI Project ID: QL85 Client ID: Floyd-Snider

ARI SOP: **404S**(Gas) **410S**(BTEX) **430S**(VPH) **703S**(SIM) **706S**(524.2) **708S**(8260C) **710S**(MME)

Parameter(s): NA

Instrument: NT-3 NT-5 NT-7 NT-9 (NT-10) PID-1 PID-2 PID-3 FID-6 FINN-5

Purge Volume (mL) 10 Curve Date: 2/22/2010 Analysis Start Date: 3/3/2010

pH ≤ 2.0	(YES) / NO / NA	Method Blank In Control?	(YES) / NO
BFB Tune Meets Criteria?	(YES) / NO / NA	LCS / LCSD Recovery In Control?	(YES) / NO (1)
Internal Standard Meets Criteria?	(YES) / NO / NA	Surrogate Recovery In Control?	(YES) / NO (2)
Special Analysis Criteria Met?	(YES) / NO / NA VDP		

ICal acceptable? (YES) / NO; Q flag applied? YES / NO / NA

CCal acceptable? YES / NO; Q flag applied? YES / NO / (NA) (1)

Bubbles/Headspace: (None) SM (≤ 2mm •) PB (2-4mm) LG (> 4mm ●) Head Space

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

(1) No Qflag for requested cmpd. & LCS/LCSD passed for requested compound.

(2) Samp B d4-1,2-dichloroethane surr associated w/ only requested cmpd is out low 64.4%R, limit is 80%R; limited sample volume for SIM & VOA Reanalyzed on 465 3/9/10 with passing surrogates PC 3/10/10

Additional Details on Reverse: Yes / (No)

Analyst Signature: _____ **Date:** 3/4/2010

Reviewer's Signature: _____ **Date:** 3/11/10

Analytical Resources Inc.: Volatile Organics Instrument Log

NT-5 Serial No.:GC=US10228086, MS=US10462818

Date: 3/9/10 Analysis: 8260 Analyst: PC

GC Program: VOA16A Column No: 850322 Column Type: RTXVMS

Instrument Tune (.U or .CT.): 03091001 EM Voltage: 1529

Inj. Vol: 10 Calibration File: 03091011 Date: 3/9/10

IS/SS	Ical/Ccal	LCS/ICV
VW623-2	VW620-2	VW614-2
	VW623-1	VW622-1
		VW622-3
		VW619-2
		VW619-3

INTERNAL STANDARD SUMMARY FOR DATABATCH - /chem1/nt5.i/09MAR10.b

	Time	Filename	LabID	ClientID	WT							
1	0903	03091001.d	BFB0309	BFB0309	0.00							
2	0916	03091002.d	CC0309	CC0309	1							
3	1002	03091003.d	CC0309A	CC0309A	1							
4	1028	03091004.d	LCSD0309		1	4.74	555570	5.19	1028537	7.65	889605	9.71	419666
5	1138	03091005.d	RB 0309		1	4.74	541523	5.19	1009261	7.65	903654	9.71	389849
6	1204	03091006.d	0.1 0309	0.1 ppb	1	4.74	535844	5.19	994707	7.65	887310	9.71	390281
7	1229	03091007.d	0.2 0309	0.2 ppb	1	4.74	538392	5.19	997079	7.65	865994	9.71	385456
8	1255	03091008.d	0.5 0309	0.5 ppb	1	4.74	531615	5.19	985995	7.65	865285	9.71	391023
9	1320	03091009.d	1 0309	1 ppb	1	4.74	533597	5.19	1008019	7.65	848670	9.71	392019
10	1346	03091010.d	MISSPIKE	MISSPIKE	1	4.74	539544	5.19	1001608	7.65	859987	9.71	390482
11	1412	03091011.d	10 0309	10 ppb	1	4.74	538440	5.19	1009985	7.65	862632	9.71	410015
12	1437	03091012.d	20 0309	20 ppb	1	4.74	550396	5.19	1015029	7.65	880785	9.71	422955
13	1503	03091013.d	40 0309	40 ppb	1	4.74	544013	5.19	1027012	7.65	885663	9.71	435024
14	1529	03091014.d	60 0309	60 ppb	1	4.74	557391	5.19	1034968	7.65	897781	9.71	449238
15	1554	03091015.d	150 0309	150 ppb ketones	1	4.74	558484	5.19	1026072	7.65	899516	9.71	386560
16	1620	03091016.d	RB 0309		1	4.74	537612	5.19	985826	7.65	867048	9.71	378984
17	1645	03091017.d	2 0309	2 ppb	1	4.74	526014	5.19	985179	7.65	845025	9.71	383446
18	1711	03091018.d	ICV 0309	ICV 10 PPB	1	4.74	531375	5.19	995676	7.65	859617	9.71	406093

PC 3/10/10

Maintenance / Comments

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control):

Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period

Analytical Resources Inc.: Volatile Organics Instrument Log

NT-5 Serial No.:GC=US10228086, MS=US10462818

Date: 3/9/10 Analysis: 8260C Analyst: PC

GC Program: VOA10A Column No: 850322 Column Type: DB-VRX/MS

Instrument Tune (.U or .CT.): 03091019 EM Voltage: 1529

Inj. Vol: 10 Calibration File: 03091020 Date: 3/9/10

IS/SS	Ical/Ccal	LCS/ICV
VW623-2	VW620-2	VW620-2
	VW623-1	VW623-1

INTERNAL STANDARD SUMMARY FOR DATABATCH - /chem1/nt5.i/09MAR10A.b

	Time	Filename	LabID	ClientID	WT								
1	1825	03091019.d	BFB0309A	BFB0309A	0.00								
2	1859	03091020.d	CC0309	CC0309		1	4.74	531018	5.19	990517	7.65	857666	9.71	380468
3	1924	03091021.d	LCS0309	LCS0309		1	4.74	516416	5.19	975738	7.65	838733	9.71	388692
4	1950	03091022.d	LCSD0309	LCSD0309		1	4.74	538108	5.19	994577	7.65	840294	9.71	395762
5	2016	03091023.d	MB0309	MB0309		1	4.74	525611	5.19	978138	7.65	839687	9.71	366357
6	2041	03091024.d	MB0309A	MB0309A		1	4.75	508755	5.19	971922	7.65	852684	9.71	377268
7	2107	03091025.d	QM84A	VOA Holding Blank R	1 CL2	1	4.74	510902	5.19	954760	7.65	828408	9.71	359929
8	2133	03091026.d	QM84B	VOA Holding Blank R	1	1	4.74	517339	5.19	959352	7.65	807635	9.71	352640
9	2158	03091027.d	QM18E	Trip blanks	1	1	4.74	511556	5.19	955317	7.65	818807	9.71	352967
10	2224	03091028.d	QM12C	Trip Blanks	1	1	4.74	521330	5.19	953544	7.65	834138	9.71	361988
11	2249	03091029.d	QM19E	Trip Blank	1	1	4.74	510178	5.19	964804	7.65	819230	9.71	362141
12	2315	03091030.d	QM21D	Trip Blank	2	1	4.74	514903	5.19	951047	7.65	823558	9.71	361917
13	2341	03091031.d	QL85B	CB4857022610GRAB	3	1	4.74	513897	5.19	946643	7.65	833730	9.71	375806
14	0006	03091032.d	QM18A	10-80-MW4-100302	1	1	4.74	507919	5.19	932758	7.65	824610	9.71	361431
15	0032	03091033.d	QM18B	10-80-MW3-100302	1	1	4.74	518452	5.19	942738	7.65	823742	9.71	366337
16	0058	03091034.d	QM18C	10-80-MW2-100302	1	1	4.74	497154	5.19	917298	7.65	797242	9.71	345228
17	0123	03091035.d	QM18D	10-80-MW1-100302	1	1	4.74	503545	5.19	933331	7.65	820050	9.71	364053
18	0149	03091036.d	QM13B	GK BTEX	1	1	4.74	505238	5.19	942046	7.65	840049	9.71	386035
19	0215	03091037.d	QM12A	PW-01-030210	1	1	4.74	516303	5.19	965051	7.65	837075	9.71	364654
20	0240	03091038.d	QM12B	PW-02-030210	1	1	4.74	479976	5.19	880061	7.65	745387	9.71	324103
21	0306	03091039.d	QM19A	I-GW40-GW160-100302	3	1	4.74	489009	5.19	904763	7.65	783086	9.71	353251
22	0332	03091040.d	QM19B	I-GW40-GW159-100302	1	1	4.74	511427	5.19	932229	7.65	801015	9.71	360767
23	0357	03091041.d	QM19C	I-GW40-GW150-100302	1	1	4.74	498426	5.19	918313	7.65	812246	9.71	358776
24	0423	03091042.d	QM19D	I-GW40-GW149-100302	1	1	4.74	498962	5.19	934400	7.65	806808	9.71	360600
25	0449	03091043.d	QM21A	I-GW17-GW199-100302	5 CL2	1	4.74	502315	5.19	935376	7.65	808861	9.71	385811
26	0514	03091044.d	QM21B	I-GW17-GW204-100302	1 7	1	4.74	507837	5.19	953314	7.65	821027	9.71	356513
27	0540	03091045.d	QM21C	I-GW17-GW189-100302	7 CL2	1	4.74	491496	5.19	919212	7.65	791670	9.71	349629

3/10/10 PC Mainter

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control):

Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

VOA Analyst Notes / Corrective Action Log

ARI Project ID: nt5 10mL ICAL Client ID: _____

ARI SOP: **404S**(Gas) **410S**(BTEX) **430S**(VPH) **703S**(SIM) **706S**(524.2) **708S**(8260C) **710S**(MME)

Parameter(s): 8260C

Instrument: NT-3 (NT-5) NT-7 NT-9 NT-10 PID-1 PID-2 PID-3 FID-6 FINN-5

Purge Volume (mL) 10 Curve Date: 3/9/10 Analysis Start Date: _____

pH ≤ 2.0 YES / NO / NA

Method Blank In Control? YES / NO

BFB Tune Meets Criteria? (YES) / NO / NA

LCS / LCSD Recovery In Control? (YES) / NO

Internal Standard Meets Criteria? (YES) / NO / NA

Surrogate Recovery In Control? (YES) / NO

Special Analysis Criteria Met? YES / NO / (NA)

ICal acceptable? (YES) / NO; Q flag applied? YES / (NO) / NA

CCal acceptable? (YES) / NO; Q flag applied? YES / NO / NA

Bubbles/Headspace: None SM (≤ 2mm •) PB (2-4mm) LG (> 4mm ●) Head Space

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

2-butanone 5 point - removed high point
DCM linear forced
Acrolein 33.598 in ICV
2 butanone 62.7% in ICV

Additional Details on Reverse: Yes / No

Analyst Signature: Paul Eglund **Date:** 3/10/10

Reviewer's Signature: _____ **Date:** 3/10/10

Analytical Resources, Incorporated
Analytical Chemists and Consultants

VOA Analyst Notes / Corrective Action Log

ARI Project ID: QL85 Client ID: Floyd/Snider

ARI SOP: **404S**(Gas) **410S**(BTEX) **430S**(VPH) **703S**(SIM) **706S**(524.2) **708S**(8260C) **710S**(MME)

Parameter(s): 8260C

Instrument: NT-3 (NT-5) NT-7 NT-9 NT-10 PID-1 PID-2 PID-3 FID-6 FINN-5

Purge Volume (mL) 10 Curve Date: 3/9/10 Analysis Start Date: 3/9/10

pH ≤ 2.0 (YES) / NO / NA Method Blank In Control? (YES) / NO

BFB Tune Meets Criteria? (YES) / NO / NA LCS / LCSD Recovery In Control? (YES) / NO

Internal Standard Meets Criteria? (YES) / NO / NA Surrogate Recovery In Control? (YES) / NO

Special Analysis Criteria Met? YES / NO / (NA)

ICal acceptable? (YES) / NO; Q flag applied? YES / (NO) / NA

CCal acceptable? (YES) / NO; Q flag applied? YES / (NO) / NA

Bubbles/Headspace: (None) SM (≤ 2mm •) PB (2-4mm) LG (> 4mm ●) Head Space

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

Additional Details on Reverse: Yes / No

Analyst Signature: Paul Caywood **Date:** 3/10/10

Reviewer's Signature: [signature] **Date:** 3/10/10

SIM Volatile Analysis
QC Summary Data

prepared
for

Floyd-Snider

Project: Lora Lakes Apartments, POS-LLA

ARI JOB NO: QL85

prepared
by

Analytical Resources, Inc.

ANALYTICAL RESOURCES INCORPORATED

SW8260-SIM SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: QL85-Floyd-Snider
Project: Lora Lakes Apartments
POS-LLA

Client ID	DCE	TOL	TOT OUT
MB-030810	100%	98.9%	0
LCS-030810	95.0%	99.9%	0
LCSD-030810	95.4%	100%	0
CB31A022610GRAB	103%	98.4%	0
CB31A022610GRAB-MS	98.7%	99.9%	0
CB31A022610GRAB-MSD	101%	101%	0
CB4857022610GRAB	108%	98.2%	0
CB1022610GRAB	108%	99.3%	0
CB102022610GRAB	108%	98.9%	0
TB022610	104%	99.2%	0

	LCS/MB LIMITS	QC LIMITS
(DCE) = d4-1,2-Dichloroethane	(80-133)	(80-136)
(TOL) = d8-Toluene	(80-121)	(80-120)

Prep Method: SW5030
Log Number Range: 10-4943 to 10-4947

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: CB31A022610GRAB
Page 1 of 1 **MATRIX SPIKE**

Lab Sample ID: QL85A
LIMS ID: 10-4943
Matrix: Water
Data Release Authorized:
Reported: 03/10/10

QC Report No: QL85-Floyd-Snider
Project: Lora Lakes Apartments
POS-LLA
Date Sampled: 02/26/10
Date Received: 02/26/10

Instrument/Analyst MS: NT10/MH
MSD: NT10/MH
Date Analyzed MS: 03/08/10 16:53
MSD: 03/08/10 17:18

Sample Amount MS: 10.0 mL
MSD: 10.0 mL
Purge Volume MS: 10.0 mL
MSD: 10.0 mL

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
cis-1,2-Dichloroethene	< 0.020 U	1.05	1.00	105%	1.04	1.00	104%	1.0%
trans-1,2-Dichloroethene	< 0.020 U	0.906	1.00	90.6%	0.886	1.00	88.6%	2.2%
Trichloroethene	< 0.020 U	1.04	1.00	104%	1.03	1.00	103%	1.0%
Tetrachloroethene	< 0.020 U	1.07	1.00	107%	1.07	1.00	107%	0.0%

Reported in µg/L (ppb)

RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: LCS-030810
 LAB CONTROL SAMPLE

Lab Sample ID: LCS-030810
LIMS ID: 10-4943
Matrix: Water
Data Release Authorized:
Reported: 03/10/10

QC Report No: QL85-Floyd-Snider
Project: Lora Lakes Apartments
POS-LLA
Date Sampled: NA
Date Received: NA

Instrument/Analyst LCS: NT10/MH
LCSD: NT10/MH
Date Analyzed LCS: 03/08/10 07:31
LCSD: 03/08/10 08:01

Sample Amount LCS: 10.0 mL
LCSD: 10.0 mL
Purge Volume LCS: 10.0 mL
LCSD: 10.0 mL

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
cis-1,2-Dichloroethene	1.06	1.00	106%	1.05	1.00	105%	0.9%
trans-1,2-Dichloroethene	0.916	1.00	91.6%	0.888	1.00	88.8%	3.1%
Trichloroethene	1.07	1.00	107%	1.05	1.00	105%	1.9%
Tetrachloroethene	1.09	1.00	109%	1.06	1.00	106%	2.8%

Reported in µg/L (ppb)

RPD calculated using sample concentrations per SW846.

Volatile Surrogate Recovery

	LCS	LCSD
d4-1,2-Dichloroethane	95.0%	95.4%
d8-Toluene	99.9%	100%

4A

VOLATILE METHOD BLANK SUMMARY

Method Blank ID.

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No: QL85

Project: POS-LLA

Lab File ID: 03080306

Lab Sample ID: MB0308

Date Analyzed: 03/08/10

Time Analyzed: 0830

Instrument ID: NT10

Heated Purge: (Y/N) N

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01		LCS0308	03080304	0731
02		LCSD0308	03080305	0801
03	TB022610	QL85E	03080307	0902
04	CB31A022610G	QL85A	03080308	0926
05	CB4857022610	QL85B	03080309	0951
06	CB1022610GRA	QL85C	03080310	1016
07	CB102022610G	QL85D	03080311	1041
08	CB31A022610G	QL85AMS	03080326	1653
09	CB31A022610G	QL85AMSD	03080327	1718
10				
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COMMENTS:

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: ANALYTICAL RESOURCES, INC Contract: FLOYD-SNIDER

Lab Code: ARI Case No.: POS-LLA SDG No.: QL85

Lab File ID: BFB030403 BFB Injection Date: 03/04/10

Instrument ID: NT10 BFB Injection Time: 1320

GC Column: RTX502.2 ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	19.1
75	30.0 - 66.0% of mass 95	52.2
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.6 (0.8)1
174	50.0 - 101.0% of mass 95	77.2
175	4.0 - 9.0% of mass 174	5.7 (7.4)1
176	93.0 - 101.0% of mass 174	75.4 (97.6)1
177	5.0 - 9.0% of mass 176	5.0 (6.7)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		00200304	030404	03/04/10	1356
02		00500304	030405	03/04/10	1427
03		01000304	030406	03/04/10	1457
04		05000304	030407	03/04/10	1527
05		10000304	030408	03/04/10	1557
06		20000304	030409	03/04/10	1628
07		40000304	030410	03/04/10	1658
08		ICV0304	030411	03/04/10	1728
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: ANALYTICAL RESOURCES, INC Contract: FLOYD-SNIDER

Lab Code: ARI Case No.: POS-LLA SDG No.: QL85

Lab File ID: 03080302 BFB Injection Date: 03/08/10

Instrument ID: NT10 BFB Injection Time: 0621

GC Column: RTX502.2 ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	19.2
75	30.0 - 66.0% of mass 95	52.4
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.7 (0.9)1
174	50.0 - 101.0% of mass 95	78.0
175	4.0 - 9.0% of mass 174	6.0 (7.7)1
176	93.0 - 101.0% of mass 174	75.7 (97.1)1
177	5.0 - 9.0% of mass 176	5.0 (6.6)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		CC0308	03080303	03/08/10	0654
02		LCS0308	03080304	03/08/10	0731
03		LCSD0308	03080305	03/08/10	0801
04		MB0308	03080306	03/08/10	0830
05	TB022610	QL85E	03080307	03/08/10	0902
06	CB31A022610GRAB	QL85A	03080308	03/08/10	0926
07	CB4857022610GRAB	QL85B	03080309	03/08/10	0951
08	CB1022610GRAB	QL85C	03080310	03/08/10	1016
09	CB102022610GRAB	QL85D	03080311	03/08/10	1041
10	CB31A022610GRAB	QL85AMS	03080326	03/08/10	1653
11	CB31A022610GRAB	QL85AMSD	03080327	03/08/10	1718
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD-SNIDER

ARI Job No: QL85 Project: POS-LLA

Ical Midpoint ID: 030407 Ical Date: 03/04/10

Instrument ID: NT10 Project Run Date: 03/04/10

		IS1(PFB) AREA #	RT #	IS2(DFB) AREA #	RT #	AREA #	RT #
	ICAL MIDPT	41939	5.27	61212	5.66		
	UPPER LIMIT	83878	5.77	122424	6.16		
	LOWER LIMIT	20970	4.77	30606	5.16		
	Sample ID						
01	ICV	44603	5.27	65633	5.66		
02							
03							
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 (PFB) = Pentafluorobenzene
IS2 (DFB) = 1,4-Difluorobenzene

AREA UPPER LIMIT = +100% of internal standard area from Ical midpoint
AREA LOWER LIMIT = - 50% of internal standard area from Ical midpoint
RT UPPER LIMIT = + 0.50 minutes of internal standard RT from Ical midpoint
RT LOWER LIMIT = - 0.50 minutes of internal standard RT from Ical midpoint

* Values outside of QC limits.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD-SNIDER

ARI Job No: QL85 Project: POS-LLA

Ical Midpoint ID: 030407 Ical Date: 03/04/10

Instrument ID: NT10 Project Run Date: 03/08/10

		IS1(PFB) AREA #	RT #	IS2(DFB) AREA #	RT #	AREA #	RT #
	ICAL MIDPT	41939	5.27	61212	5.66		
	UPPER LIMIT	83878	5.77	122424	6.16		
	LOWER LIMIT	20970	4.77	30606	5.16		
	Sample ID						
01	LCS0308	41176	5.27	59841	5.66		
02	LCSD0308	40403	5.27	58520	5.66		
03	MB0308	43876	5.27	62055	5.66		
04	TB022610	39532	5.27	56834	5.66		
05	CB31A022610G	41652	5.27	58946	5.66		
06	CB4857022610	42065	5.27	59990	5.66		
07	CB1022610GRA	38647	5.27	55870	5.66		
08	CB102022610G	39583	5.27	57547	5.66		
09	CB31A022610G	40554	5.27	59185	5.66		
10	CB31A022610G	40177	5.27	58610	5.65		
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 (PFB) = Pentafluorobenzene
IS2 (DFB) = 1,4-Difluorobenzene

AREA UPPER LIMIT = +100% of internal standard area from Ical midpoint
AREA LOWER LIMIT = - 50% of internal standard area from Ical midpoint
RT UPPER LIMIT = + 0.50 minutes of internal standard RT from Ical midpoint
RT LOWER LIMIT = - 0.50 minutes of internal standard RT from Ical midpoint

* Values outside of QC limits.

SIM Volatile Analysis
Sample Data

prepared
for

Floyd-Snider

Project: Lora Lakes Apartments, POS-LLA

ARI JOB NO: QL85

prepared
by

Analytical Resources, Inc.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM **Sample ID: CB31A022610GRAB**
Page 1 of 1 **SAMPLE**

Lab Sample ID: QL85A
LIMS ID: 10-4943
Matrix: Water
Data Release Authorized:
Reported: 03/10/10

QC Report No: QL85-Floyd-Snider
Project: Lora Lakes Apartments
POS-LLA
Date Sampled: 02/26/10
Date Received: 02/26/10

Instrument/Analyst: NT10/MH
Date Analyzed: 03/08/10 09:26

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
156-59-2	cis-1,2-Dichloroethene	0.020	< 0.020	U
156-60-5	trans-1,2-Dichloroethene	0.020	< 0.020	U
79-01-6	Trichloroethene	0.020	< 0.020	U
127-18-4	Tetrachloroethene	0.020	< 0.020	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	103%
d8-Toluene	98.4%

Data File: /chem1/nt10.i/08MAR10.b/03080308.d
Report Date: 10-Mar-2010 07:51

Analytical Resources, Inc.

Data file : /chem1/nt10.i/08MAR10.b/03080308.d
Lab Smp Id: QL85A Client Smp ID: CB31A022610GRAB
Inj Date : 08-MAR-2010 09:26
Operator : MH Inst ID: nt10.i
Smp Info : QL85A,10,10,0,
Misc Info : 10-4943
Comment :
Method : /chem1/nt10.i/08MAR10.b/SIM030410.m
Meth Date : 10-Mar-2010 07:50 monicah Quant Type: ISTD
Cal Date : 04-MAR-2010 16:58 Cal File: 030410.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sim.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 10-Mar-2010 07:5 * CpndVariable

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/L)	FINAL (ug/L)
	1 Vinyl Chloride	62	Compound Not Detected.					
	2 1,1-Dichloroethene	96	Compound Not Detected.					
	3 Trans-1,2-Dichloroethene	96	Compound Not Detected.					
	4 cis-1,2-dichloroethene	96	Compound Not Detected.					
	5 Benzene	78	5.177	5.177	(0.982)	956	11.7057	11.706
*	6 Pentafluorobenzene	168	5.272	5.272	(1.000)	41652	1000.00	
$	7 d4-1,2-Dichloroethane	65	5.289	5.289	(1.003)	13727	1029.91	1029.9
	8 Trichloroethene	130	Compound Not Detected.					
*	9 1,4-Difluorobenzene	114	5.660	5.660	(1.000)	58946	1000.00	
$	10 d8-Toluene	98	6.632	6.632	(1.172)	64636	983.823	983.82
	11 Tetrachloroethene	166	Compound Not Detected.					
	12 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: 03080308.d
Lab Smp Id: QL85A
Analysis Type: VOA
Quant Type: ISTD
Operator: MH
Method File: /chem1/nt10.i/08MAR10.b/SIM030410.m
Misc Info: 10-4943

Calibration Date: 08-MAR-2010
Calibration Time: 06:54
Client Smp ID: CB31A022610GRAB
Level: 06
Sample Type: Water

Test Mode:
Use Initial Calibration Level 5.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
6 Pentafluorobenzen	45054	22527	90108	41652	-7.55
9 1,4-Difluorobenze	66146	33073	132292	58946	-10.89

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
6 Pentafluorobenzen	5.27	4.77	5.77	5.27	0.00
9 1,4-Difluorobenze	5.66	5.16	6.16	5.66	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Floyd-Snider
Sample Matrix: LIQUID
Lab Smp Id: QL85A
Level:
Data Type: MS DATA
SpikeList File: sim.spk
Sublist File: sim.sub
Method File: /chem1/nt10.i/08MAR10.b/SIM030410.m
Misc Info: 10-4943

Client SDG: QL85
Fraction: VOA
Client Smp ID: CB31A022610GRAB
RECOVERY REPORT Operator: MH
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 7 d4-1,2-Dichloroeth	1000.0	1029.9	102.99	70-130
$ 10 d8-Toluene	1000.0	983.82	98.38	70-130

Data File: /chem1/nt10.i/08MAR10.b/03080308.d

Date : 08-MAR-2010 09:26

Client ID: CB31A022610GRAB

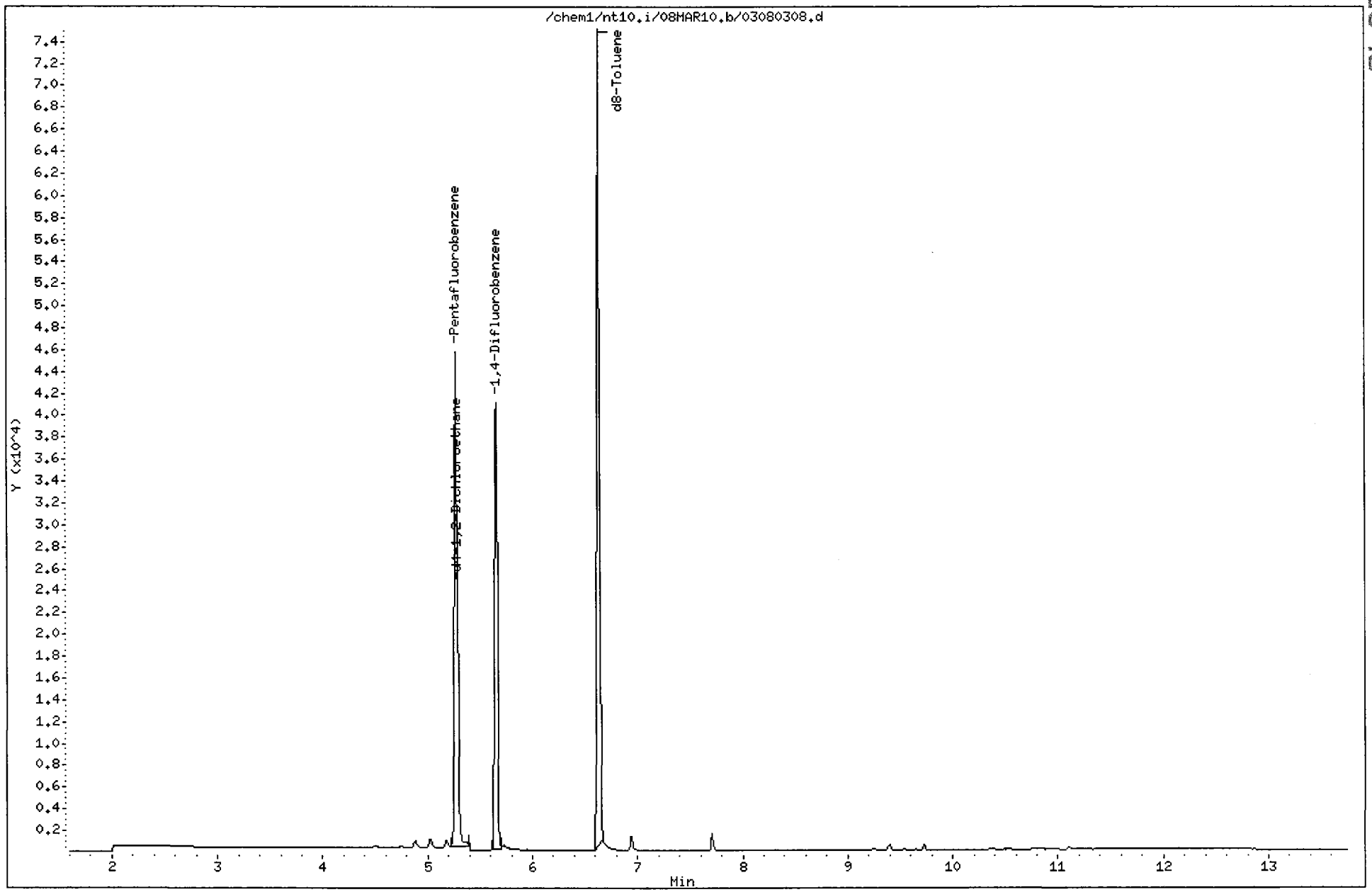
Sample Info: QL85A,10,10,0,

Column phase: RTX502.2

Instrument: nt10.i

Operator: MH

Column diameter: 0.18



ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM **Sample ID: CB4857022610GRAB SAMPLE**

Lab Sample ID: QL85B
LIMS ID: 10-4944
Matrix: Water
Data Release Authorized:
Reported: 03/10/10

QC Report No: QL85-Floyd-Snider
Project: Lora Lakes Apartments POS-LLA
Date Sampled: 02/26/10
Date Received: 02/26/10

Instrument/Analyst: NT10/MH
Date Analyzed: 03/08/10 09:51

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
156-59-2	cis-1,2-Dichloroethene	0.020	< 0.020	U
156-60-5	trans-1,2-Dichloroethene	0.020	< 0.020	U
79-01-6	Trichloroethene	0.020	< 0.020	U
127-18-4	Tetrachloroethene	0.020	< 0.020	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	108%
d8-Toluene	98.2%

Analytical Resources, Inc.

Data file : /chem1/nt10.i/08MAR10.b/03080309.d
Lab Smp Id: QL85B Client Smp ID: CB4857022610GRAB
Inj Date : 08-MAR-2010 09:51
Operator : MH Inst ID: nt10.i
Smp Info : QL85B,10,10,0,
Misc Info : 10-4944
Comment :
Method : /chem1/nt10.i/08MAR10.b/SIM030410.m
Meth Date : 10-Mar-2010 07:50 monicah Quant Type: ISTD
Cal Date : 04-MAR-2010 16:58 Cal File: 030410.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sim.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 10-Mar-2010 07:5 * CpndVariable

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/L)	FINAL (ug/L)
	1 Vinyl Chloride	62	Compound Not Detected.					
	2 1,1-Dichloroethene	96	Compound Not Detected.					
	3 Trans-1,2-Dichloroethene	96	Compound Not Detected.					
	4 cis-1,2-dichloroethene	96	Compound Not Detected.					
	5 Benzene	78	5.186	5.177	(0.984)	935	11.3361	11.336
*	6 Pentafluorobenzene	168	5.272	5.272	(1.000)	42065	1000.00	
$	7 d4-1,2-Dichloroethane	65	5.290	5.289	(1.003)	14509	1077.90	1077.9
	8 Trichloroethene	130	Compound Not Detected.					
*	9 1,4-Difluorobenzene	114	5.661	5.660	(1.000)	59990	1000.00	
$	10 d8-Toluene	98	6.632	6.632	(1.172)	65631	981.583	981.58
	11 Tetrachloroethene	166	Compound Not Detected.					
	12 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: 03080309.d
Lab Smp Id: QL85B
Analysis Type: VOA
Quant Type: ISTD
Operator: MH
Method File: /chem1/nt10.i/08MAR10.b/SIM030410.m
Misc Info: 10-4944

Calibration Date: 08-MAR-2010
Calibration Time: 06:54
Client Smp ID: CB4857022610GRAB
Level: 06
Sample Type: Water

Test Mode:
Use Initial Calibration Level 5.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
6 Pentafluorobenzen	45054	22527	90108	42065	-6.63
9 1,4-Difluorobenze	66146	33073	132292	59990	-9.31

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
6 Pentafluorobenzen	5.27	4.77	5.77	5.27	0.00
9 1,4-Difluorobenze	5.66	5.16	6.16	5.66	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Floyd-Snider
Sample Matrix: LIQUID
Lab Smp Id: QL85B
Level:
Data Type: MS DATA
SpikeList File: sim.spk
Sublist File: sim.sub
Method File: /chem1/nt10.i/08MAR10.b/SIM030410.m
Misc Info: 10-4944

Client SDG: QL85
Fraction: VOA
Client Smp ID: CB4857022610GRAB
RECOVERY REPORT Operator: MH
SampleType: SAMPLE
Quant Type: ISTD

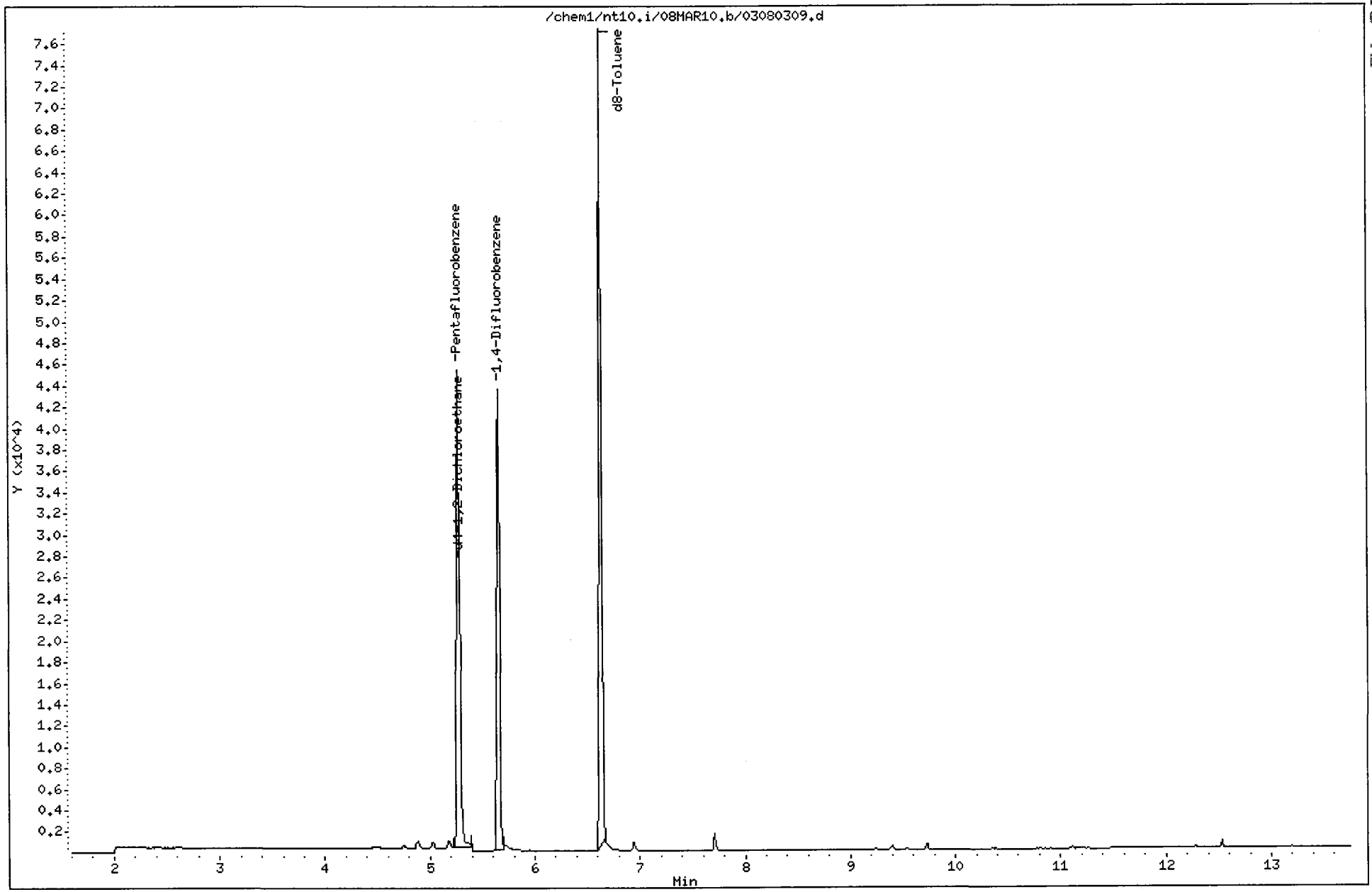
SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 7 d4-1,2-Dichloroeth	1000.0	1077.9	107.79	70-130
$ 10 d8-Toluene	1000.0	981.58	98.16	70-130

Data File: /chem1/nt10.i/08MAR10.b/03080309.d
Date : 08-MAR-2010 09:51
Client ID: CB4857022610GRAB
Sample Info: QL85B,10,10,0,

Instrument: nt10.i

Operator: MH
Column diameter: 0.18

Column phase: RTX502.2



ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM **Sample ID: CB1022610GRAB**
Page 1 of 1 **SAMPLE**

Lab Sample ID: QL85C
LIMS ID: 10-4945
Matrix: Water
Data Release Authorized:
Reported: 03/10/10

QC Report No: QL85-Floyd-Snider
Project: Lora Lakes Apartments
POS-LLA
Date Sampled: 02/26/10
Date Received: 02/26/10

Instrument/Analyst: NT10/MH
Date Analyzed: 03/08/10 10:16

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
156-59-2	cis-1,2-Dichloroethene	0.020	< 0.020	U
156-60-5	trans-1,2-Dichloroethene	0.020	< 0.020	U
79-01-6	Trichloroethene	0.020	< 0.020	U
127-18-4	Tetrachloroethene	0.020	< 0.020	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	108%
d8-Toluene	99.3%

MH 3/10/10

Analytical Resources, Inc.

Data file : /chem1/nt10.i/08MAR10.b/03080310.d
Lab Smp Id: QL85C Client Smp ID: CB1022610GRAB
Inj Date : 08-MAR-2010 10:16
Operator : MH Inst ID: nt10.i
Smp Info : QL85C,10,10,0,
Misc Info : 10-4945
Comment :
Method : /chem1/nt10.i/08MAR10.b/SIM030410.m
Meth Date : 10-Mar-2010 07:50 monicah Quant Type: ISTD
Cal Date : 04-MAR-2010 16:58 Cal File: 030410.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sim.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 10-Mar-2010 07:5 * CpndVariable

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/L)	FINAL (ug/L)
	1 Vinyl Chloride	62	Compound Not Detected.					
	2 1,1-Dichloroethene	96	Compound Not Detected.					
	3 Trans-1,2-Dichloroethene	96	Compound Not Detected.					
	4 cis-1,2-dichloroethene	96	Compound Not Detected.					
	5 Benzene	78	5.177	5.177	(0.982)	831	10.9663	10.966
*	6 Pentafluorobenzene	168	5.272	5.272	(1.000)	38647	1000.00	
$	7 d4-1,2-Dichloroethane	65	5.289	5.289	(1.003)	13378	1081.77	1081.8
	8 Trichloroethene	130	Compound Not Detected.					
*	9 1,4-Difluorobenzene	114	5.660	5.660	(1.000)	55870	1000.00	
$	10 d8-Toluene	98	6.632	6.632	(1.172)	61861	993.425	993.43
	11 Tetrachloroethene	166	Compound Not Detected.					
	12 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: 03080310.d
Lab Smp Id: QL85C
Analysis Type: VOA
Quant Type: ISTD
Operator: MH
Method File: /chem1/nt10.i/08MAR10.b/SIM030410.m
Misc Info: 10-4945

Calibration Date: 08-MAR-2010
Calibration Time: 06:54
Client Smp ID: CB1022610GRAB
Level: 06
Sample Type: Water

Test Mode:
Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
6 Pentafluorobenzen	45054	22527	90108	38647	-14.22
9 1,4-Difluorobenze	66146	33073	132292	55870	-15.54

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
6 Pentafluorobenzen	5.27	4.77	5.77	5.27	0.00
9 1,4-Difluorobenze	5.66	5.16	6.16	5.66	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Floyd-Snider
Sample Matrix: LIQUID
Lab Smp Id: QL85C
Level:
Data Type: MS DATA
SpikeList File: sim.spk
Sublist File: sim.sub
Method File: /chem1/nt10.i/08MAR10.b/SIM030410.m
Misc Info: 10-4945

Client SDG: QL85
Fraction: VOA
Client Smp ID: CB1022610GRAB
RECOVERY REPORT
Operator: MH
SampleType: SAMPLE
Quant Type: ISTD

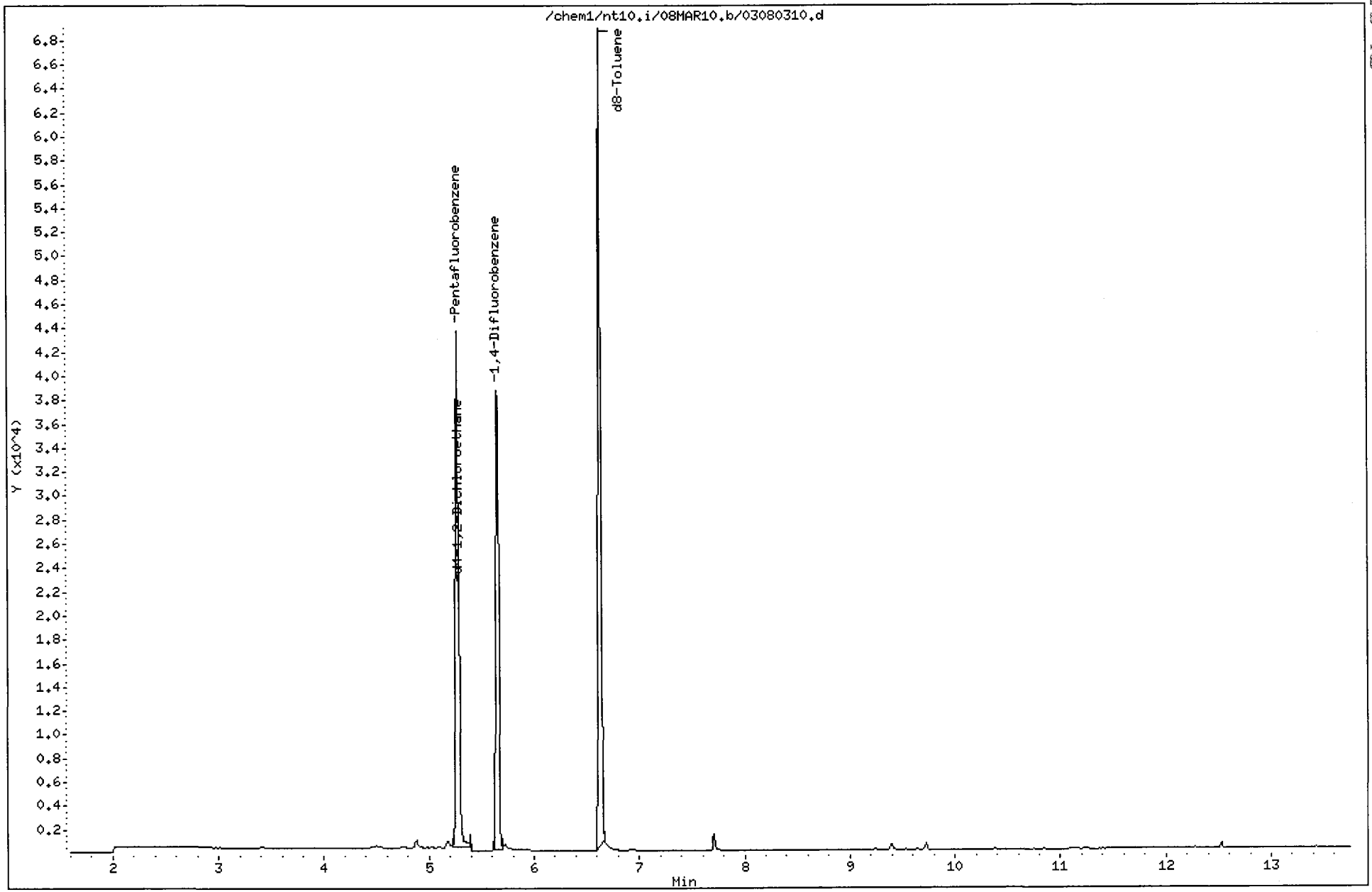
SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 7 d4-1,2-Dichloroeth	1000.0	1081.8	108.18	70-130
$ 10 d8-Toluene	1000.0	993.43	99.34	70-130

Data File: /chem1/nt10.i/08MAR10.b/03080310.d
Date : 08-MAR-2010 10:16
Client ID: CB1022610GRAB
Sample Info: QL85C,10,10,0,

Instrument: nt10.i

Operator: MH
Column diameter: 0.18

Column phase: RTX502.2



ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM **Sample ID: CB102022610GRAB**
Page 1 of 1 **SAMPLE**

Lab Sample ID: QL85D
LIMS ID: 10-4946
Matrix: Water
Data Release Authorized:
Reported: 03/10/10

QC Report No: QL85-Floyd-Snider
Project: Lora Lakes Apartments
POS-LLA
Date Sampled: 02/26/10
Date Received: 02/26/10

Instrument/Analyst: NT10/MH
Date Analyzed: 03/08/10 10:41

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
156-59-2	cis-1,2-Dichloroethene	0.020	< 0.020	U
156-60-5	trans-1,2-Dichloroethene	0.020	< 0.020	U
79-01-6	Trichloroethene	0.020	< 0.020	U
127-18-4	Tetrachloroethene	0.020	< 0.020	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	108%
d8-Toluene	98.9%

3/10/10

Analytical Resources, Inc.

Data file : /chem1/nt10.i/08MAR10.b/03080311.d
Lab Smp Id: QL85D Client Smp ID: CB102022610GRAB
Inj Date : 08-MAR-2010 10:41
Operator : MH Inst ID: nt10.i
Smp Info : QL85D,10,10,0,
Misc Info : 10-4946
Comment :
Method : /chem1/nt10.i/08MAR10.b/SIM030410.m
Meth Date : 10-Mar-2010 07:50 monicah Quant Type: ISTD
Cal Date : 04-MAR-2010 16:58 Cal File: 030410.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sim.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 10-Mar-2010 07:5 * CpndVariable

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/L)	FINAL (ug/L)
	1 Vinyl Chloride	62	Compound Not Detected.					
	2 1,1-Dichloroethene	96	Compound Not Detected.					
	3 Trans-1,2-Dichloroethene	96	Compound Not Detected.					
	4 cis-1,2-dichloroethene	96	Compound Not Detected.					
	5 Benzene	78	Compound Not Detected.					
*	6 Pentafluorobenzene	168	5.272	5.272	(1.000)	39583	1000.00	
$	7 d4-1,2-Dichloroethane	65	5.290	5.289	(1.003)	13657	1078.22	1078.2
	8 Trichloroethene	130	Compound Not Detected.					
*	9 1,4-Difluorobenzene	114	5.661	5.660	(1.000)	57547	1000.00	
$	10 d8-Toluene	98	6.632	6.632	(1.172)	63415	988.704	988.70
	11 Tetrachloroethene	166	Compound Not Detected.					
	12 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: 03080311.d
Lab Smp Id: QL85D
Analysis Type: VOA
Quant Type: ISTD
Operator: MH
Method File: /chem1/nt10.i/08MAR10.b/SIM030410.m
Misc Info: 10-4946

Calibration Date: 08-MAR-2010
Calibration Time: 06:54
Client Smp ID: CB102022610GRAB
Level: 06
Sample Type: Water

Test Mode:
Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
6 Pentafluorobenzen	45054	22527	90108	39583	-12.14
9 1,4-Difluorobenze	66146	33073	132292	57547	-13.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
6 Pentafluorobenzen	5.27	4.77	5.77	5.27	0.00
9 1,4-Difluorobenze	5.66	5.16	6.16	5.66	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Floyd-Snider
Sample Matrix: LIQUID
Lab Smp Id: QL85D
Level:
Data Type: MS DATA
SpikeList File: sim.spk
Sublist File: sim.sub
Method File: /chem1/nt10.i/08MAR10.b/SIM030410.m
Misc Info: 10-4946

Client SDG: QL85
Fraction: VOA
Client Smp ID: CB102022610GRAB
RECOVERY REPORT Operator: MH
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 7 d4-1,2-Dichloroeth	1000.0	1078.2	107.82	70-130
$ 10 d8-Toluene	1000.0	988.70	98.87	70-130

Data File: /chem1/nt10.i/08MAR10.b/03080311.d

Date : 08-MAR-2010 10:41

Client ID: CB102022610GRAB

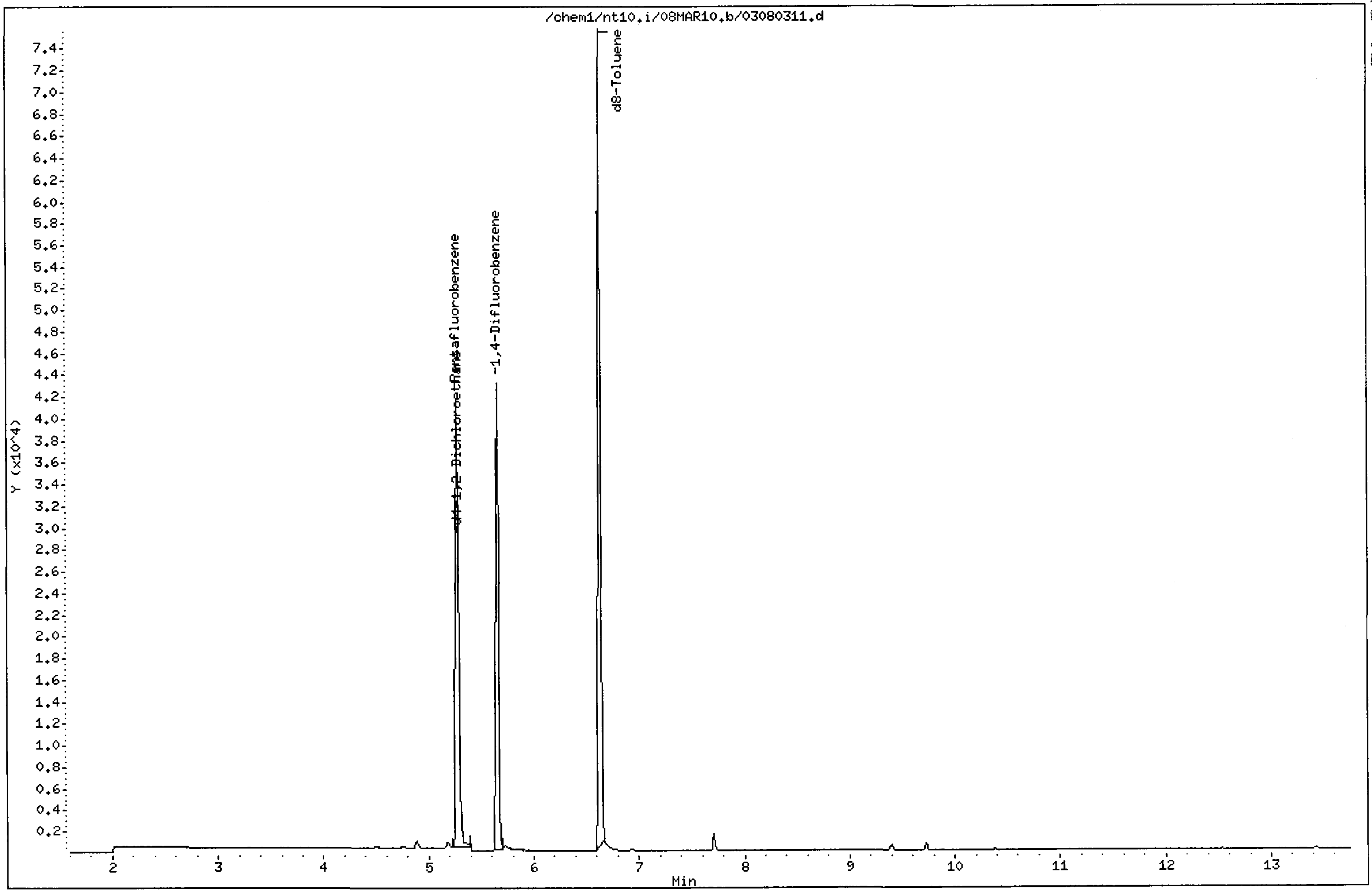
Sample Info: QL85D,10,10,0,

Column phase: RTX502.2

Instrument: nt10.i

Operator: MH

Column diameter: 0.18



QL85:00568

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM **Sample ID: TB022610**
Page 1 of 1 **Trip Blank**

Lab Sample ID: QL85E
LIMS ID: 10-4947
Matrix: Water
Data Release Authorized:
Reported: 03/10/10

QC Report No: QL85-Floyd-Snider
Project: Lora Lakes Apartments
POS-LLA
Date Sampled: 02/26/10
Date Received: 02/26/10

Instrument/Analyst: NT10/MH
Date Analyzed: 03/08/10 09:02

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
156-59-2	cis-1,2-Dichloroethene	0.020	< 0.020	U
156-60-5	trans-1,2-Dichloroethene	0.020	< 0.020	U
79-01-6	Trichloroethene	0.020	< 0.020	U
127-18-4	Tetrachloroethene	0.020	< 0.020	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	104%
d8-Toluene	99.2%

MH 3/10/10

Analytical Resources, Inc.

Data file : /chem1/nt10.i/08MAR10.b/03080307.d
Lab Smp Id: QL85E Client Smp ID: TB022610
Inj Date : 08-MAR-2010 09:02
Operator : MH Inst ID: nt10.i
Smp Info : QL85E,10,10,0,
Misc Info : 10-4947
Comment :
Method : /chem1/nt10.i/08MAR10.b/SIM030410.m
Meth Date : 10-Mar-2010 07:50 monicah Quant Type: ISTD
Cal Date : 04-MAR-2010 16:58 Cal File: 030410.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sim.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 10-Mar-2010 07:5 * CpndVariable

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/L)	FINAL (ug/L)
	1 Vinyl Chloride	62	Compound Not Detected.					
	2 1,1-Dichloroethene	96	Compound Not Detected.					
	3 Trans-1,2-Dichloroethene	96	Compound Not Detected.					
	4 cis-1,2-dichloroethene	96	Compound Not Detected.					
	5 Benzene	78	Compound Not Detected.					
*	6 Pentafluorobenzene	168	5.272	5.272	(1.000)	39532	1000.00	
$	7 d4-1,2-Dichloroethane	65	5.289	5.289	(1.003)	13097	1035.34	1035.3
	8 Trichloroethene	130	Compound Not Detected.					
*	9 1,4-Difluorobenzene	114	5.660	5.660	(1.000)	56834	1000.00	
$	10 d8-Toluene	98	6.632	6.632	(1.172)	62870	992.504	992.50
	11 Tetrachloroethene	166	Compound Not Detected.					
	12 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: 03080307.d
Lab Smp Id: QL85E
Analysis Type: VOA
Quant Type: ISTD
Operator: MH
Method File: /chem1/nt10.i/08MAR10.b/SIM030410.m
Misc Info: 10-4947

Calibration Date: 08-MAR-2010
Calibration Time: 06:54
Client Smp ID: TB022610
Level: 06
Sample Type: Water

Test Mode:
Use Initial Calibration Level 5.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
6 Pentafluorobenzen	45054	22527	90108	39532	-12.26
9 1,4-Difluorobenze	66146	33073	132292	56834	-14.08

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
6 Pentafluorobenzen	5.27	4.77	5.77	5.27	0.00
9 1,4-Difluorobenze	5.66	5.16	6.16	5.66	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

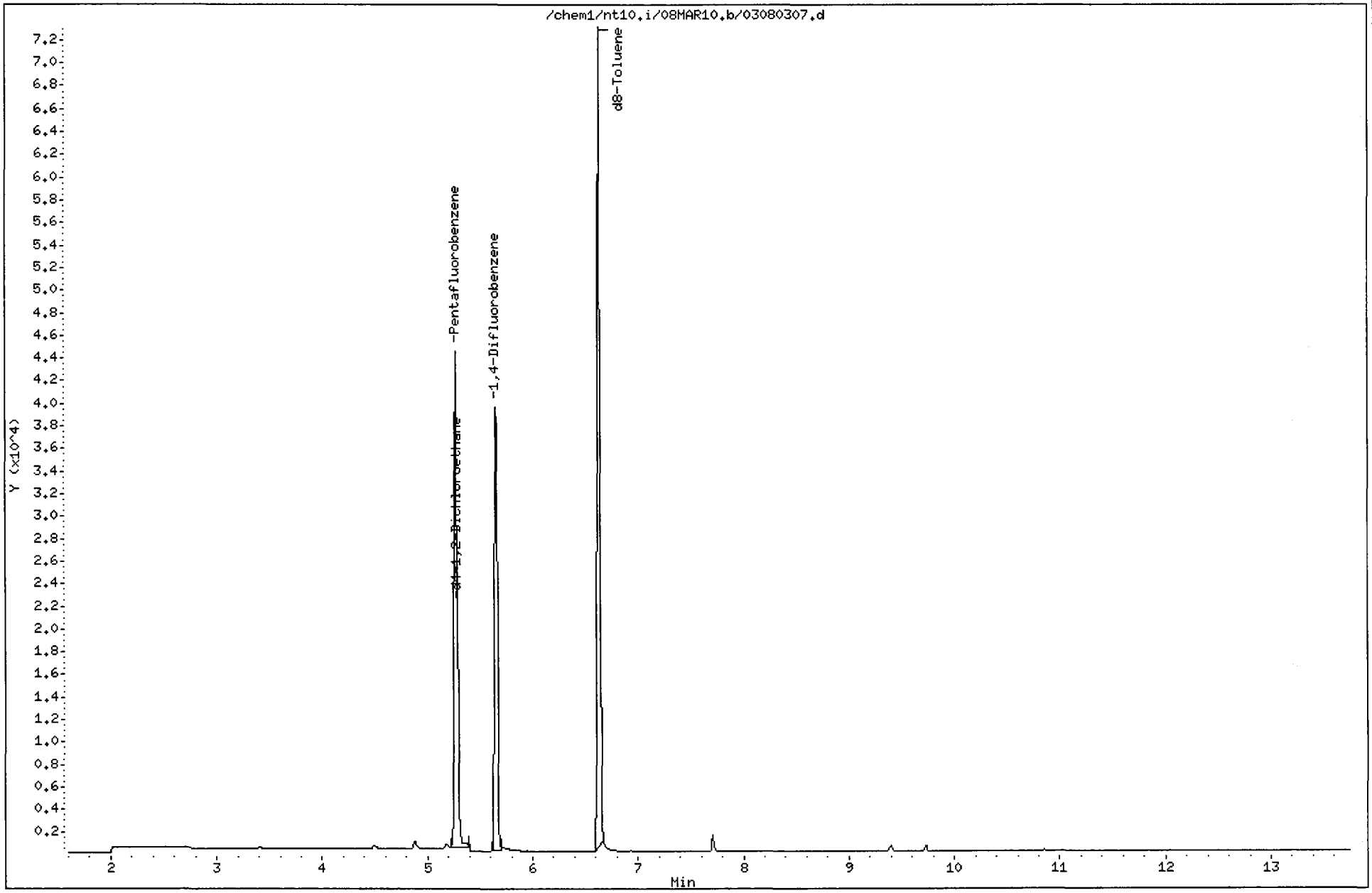
Client Name: Floyd-Snider
Sample Matrix: LIQUID
Lab Smp Id: QL85E
Level:
Data Type: MS DATA
SpikeList File: sim.spk
Sublist File: sim.sub
Method File: /chem1/nt10.i/08MAR10.b/SIM030410.m
Misc Info: 10-4947

Client SDG: QL85
Fraction: VOA
Client Smp ID: TB022610
RECOVERY REPORT
Operator: MH
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 7 d4-1,2-Dichloroeth	1000.0	1035.3	103.53	70-130
$ 10 d8-Toluene	1000.0	992.50	99.25	70-130

Data File: /chem1/nt10.i/08MAR10.b/03080307.d
Date : 08-MAR-2010 09:02
Client ID: TB022610
Sample Info: QL85E,10,10,0,

Instrument: nt10.i
Operator: MH
Column phase: RTX502.2
Column diameter: 0.18



SIM Volatile Analysis
Standard Raw Data

prepared
for

Floyd-Snider

Project: Lora Lakes Apartments, POS-LLA

ARI JOB NO: QL85

prepared
by

Analytical Resources, Inc.

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD-SNIDER

ARI Job No: QL85 Project: POS-LLA

Instrument ID: NT10 Calibration Date: 03/04/10

LAB FILE ID: RF20: 030404 RF50: 030405 RF100: 030406
RF500: 030407 RF1000: 030408

COMPOUND	RF20	RF50	RF100	RF500	RF1000
Vinyl Chloride	0.663	0.578	0.408	0.475	0.394
1,1-Dichloroethene	0.670	0.650	0.427	0.515	0.470
Trans-1,2-Dichloroethene	0.672	0.631	0.449	0.535	0.470
cis-1,2-dichloroethene	0.918	0.701	0.494	0.533	0.484
Benzene	3.379	2.807	1.957	2.193	2.068
Trichloroethene	0.616	0.517	0.391	0.415	0.384
Tetrachloroethene	0.649	0.556	0.410	0.440	0.411
1,1,2,2-Tetrachloroethane	0.221	0.202	0.148	0.170	0.149
d4-1,2-Dichloroethane	0.328	0.335	0.330	0.316	0.306
d8-Toluene	1.110	1.110	1.112	1.118	1.115

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD-SNIDER

ARI Job No: QL85 Project: POS-LLA

Instrument ID: NT10 Calibration Date: 03/04/10

LAB FILE ID: RF2000: 030409 RF4000: 030410

COMPOUND	RF2000	RF4000
Vinyl Chloride	0.443	0.388
1,1-Dichloroethene	0.482	0.417
Trans-1,2-Dichloroethene	0.471	0.443
cis-1,2-dichloroethene	0.469	0.449
Benzene	1.959	1.950
Trichloroethene	0.364	0.357
Tetrachloroethene	0.382	0.377
1,1,2,2-Tetrachloroethane	0.149	0.138
d4-1,2-Dichloroethane	0.304	
d8-Toluene	1.123	

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD-SNIDER

ARI Job No: QL85 Project: POS-LLA

Instrument ID: NT10 Calibration Date: 03/04/10

COMPOUND	CURVE TYPE	AVE RF	%RSD OR R^2
Vinyl Chloride	LINR		0.9944
1,1-Dichloroethene	AVRG	0.519	19.7
Trans-1,2-Dichloroethene	AVRG	0.524	17.7
cis-1,2-dichloroethene	LINR		0.9986
Benzene	LINR		0.9994
Trichloroethene	LINR		0.9990
Tetrachloroethene	LINR		0.9989
1,1,2,2-Tetrachloroethane	AVRG	0.168	18.8
d4-1,2-Dichloroethane	AVRG	0.320	4.1
d8-Toluene	AVRG	1.114	0.5

<- Indicates value outside QC limits:
(%RSD < 20% or R^2 > 0.990)

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 04-MAR-2010 13:56
End Cal Date : 04-MAR-2010 16:58
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/nt10.i/04MAR10.b/SIM030410.m
Cal Date : 05-Mar-2010 06:46 monicah

Calibration File Names:
Level 1: /chem1/nt10.i/04MAR10.b/030404.d
Level 2: /chem1/nt10.i/04MAR10.b/030405.d
Level 3: /chem1/nt10.i/04MAR10.b/030406.d
Level 4: /chem1/nt10.i/04MAR10.b/030407.d
Level 5: /chem1/nt10.i/04MAR10.b/030408.d
Level 6: /chem1/nt10.i/04MAR10.b/030409.d
Level 7: /chem1/nt10.i/04MAR10.b/030410.d

Compound	20 Level 1	50 Level 2	100 Level 3	500 Level 4	1000 Level 5	2000 Level 6	4000 Level 7	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
1 Vinyl Chloride	514	1208	1738	9953	17765	37269	69910	LINR	0.000e+00	0.40075		0.99444
2 1,1-Dichloroethene	0.66988	0.65007	0.42691	0.51508	0.46981	0.48224	0.41692	AVRG		0.51870		19.69733
3 Trans-1,2-Dichloroethene	0.67247	0.63141	0.44944	0.53530	0.46995	0.47062	0.44279	AVRG		0.52457		17.68391
4 cis-1,2-dichloroethene	711	1466	2103	11178	21809	39418	81076	LINR	0.000e+00	0.45616		0.99856

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 04-MAR-2010 13:56
End Cal Date : 04-MAR-2010 16:58
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/nt10.i/04MAR10.b/SIM030410.m
Cal Date : 05-Mar-2010 06:46 monicah

Compound	20 Level 1	50 Level 2	100 Level 3	500 Level 4	1000 Level 5	2000 Level 6	4000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
5 Benzene	2618	5869	8340	45995	93191	164737	351699	LINR	0.000e+00	1.96077		0.99940
8 Trichloroethene	684	1568	2405	12701	25380	44730	95266	LINR	0.000e+00	0.36066		0.99905
11 Tetrachloroethene	721	1684	2519	13470	27189	47025	100626	LINR	0.000e+00	0.38095		0.99887
12 1,1,2,2-Tetrachloroethane	0.22061	0.20156	0.14770	0.16990	0.14881	0.14899	0.13783	AVRG		0.16791		18.75315
$ 7 d4-1,2-Dichloroethane	0.32795	0.33486	0.33040	0.31644	0.30621	0.30410	+++++	AVRG		0.31999		4.06977
10 d8-Toluene	1.10953	1.11030	1.11180	1.11761	1.11475	1.12338	+++++	AVRG		1.11456		0.47161

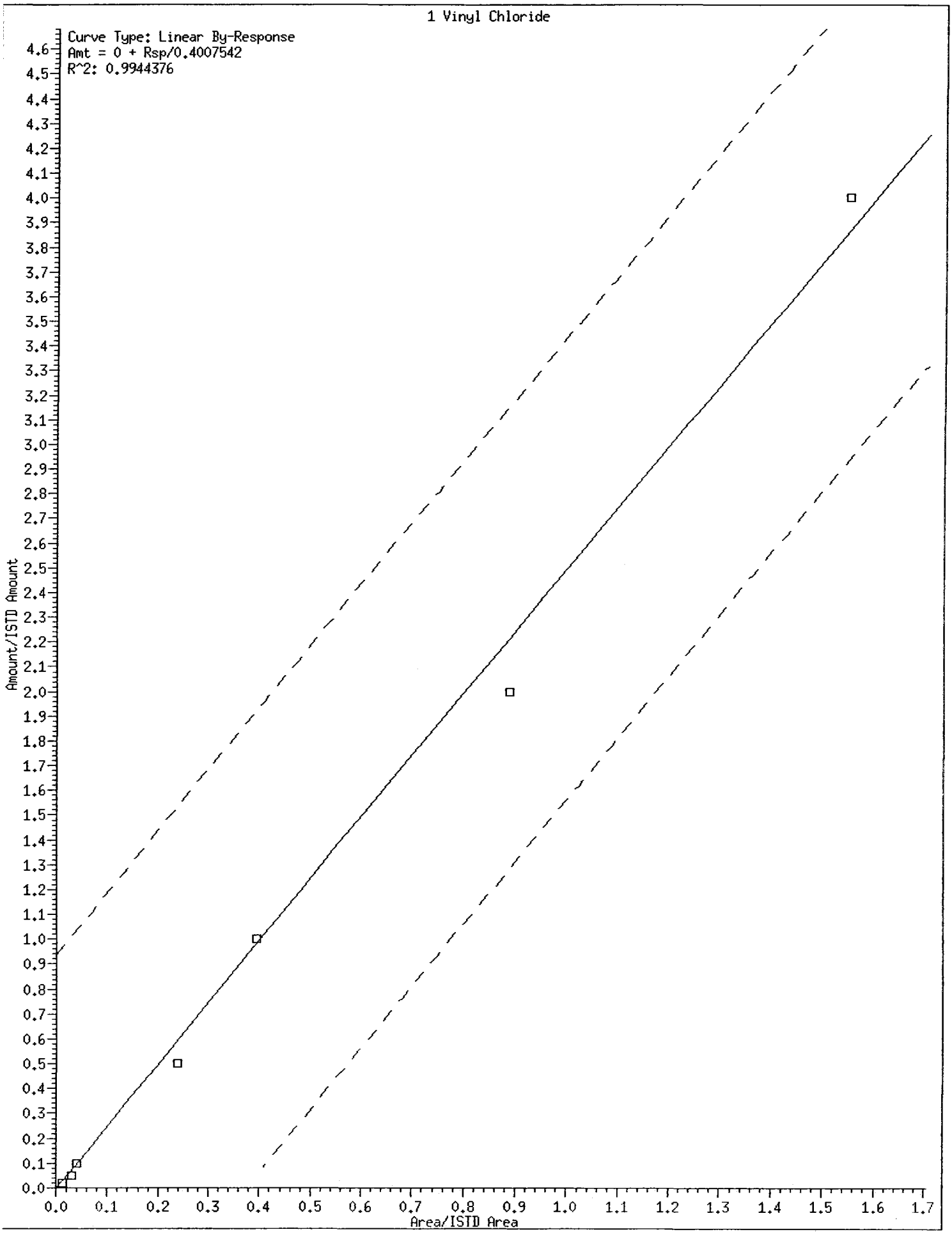
Analytical Resources, Inc.

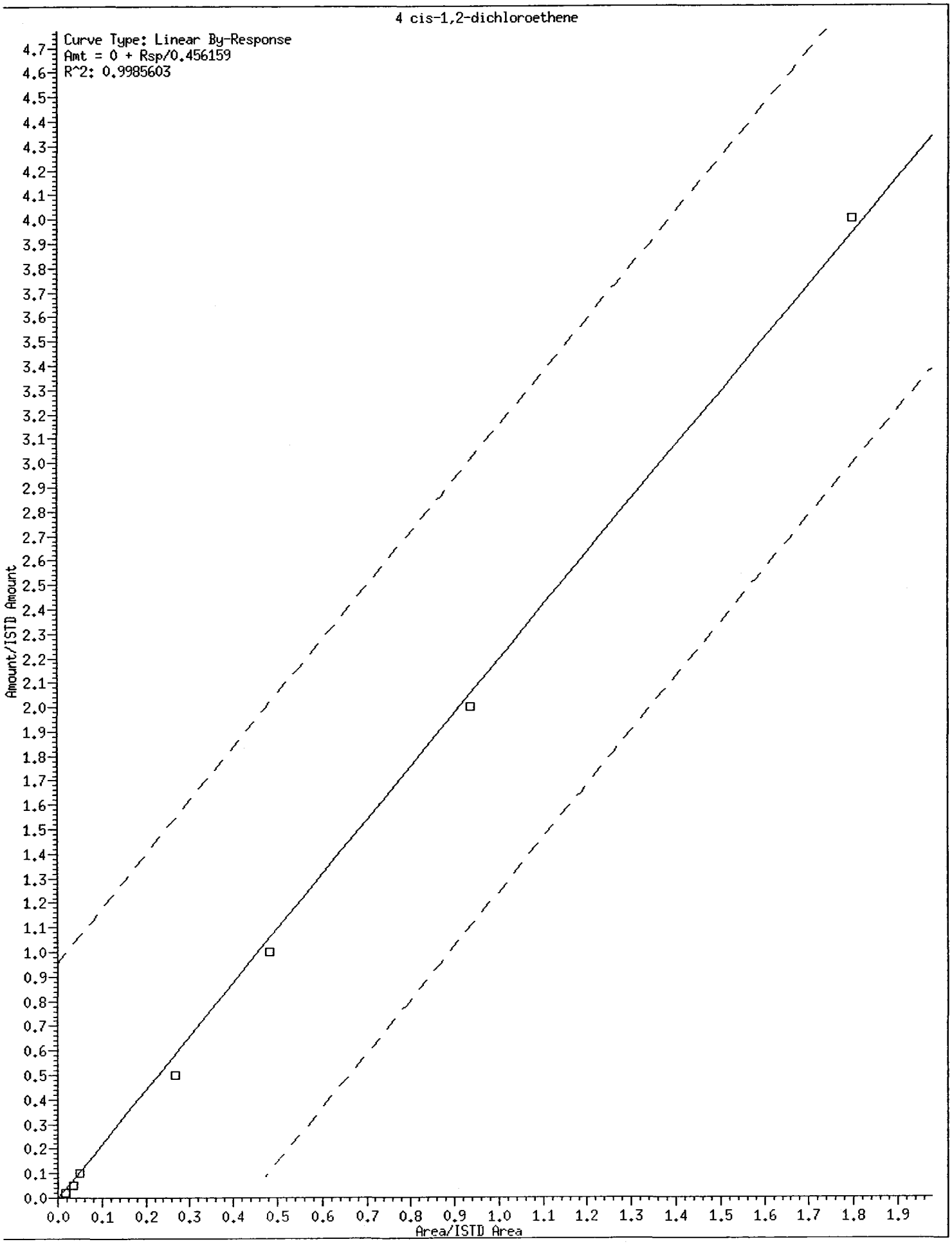
INITIAL CALIBRATION DATA

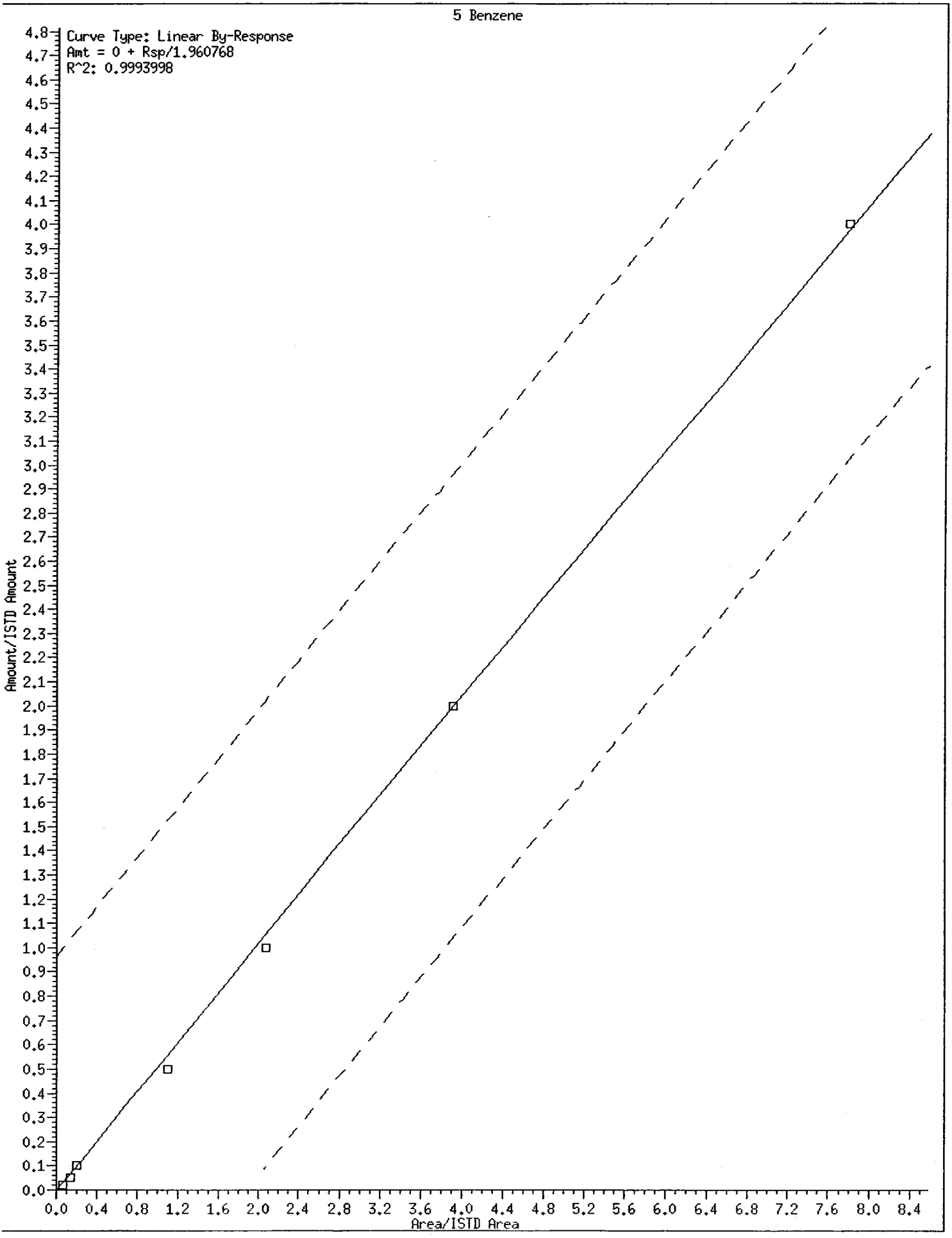
Start Cal Date : 04-MAR-2010 13:56
End Cal Date : 04-MAR-2010 16:58
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/nt10.i/04MAR10.b/SIM030410.m
Cal Date : 05-Mar-2010 06:46 monicah

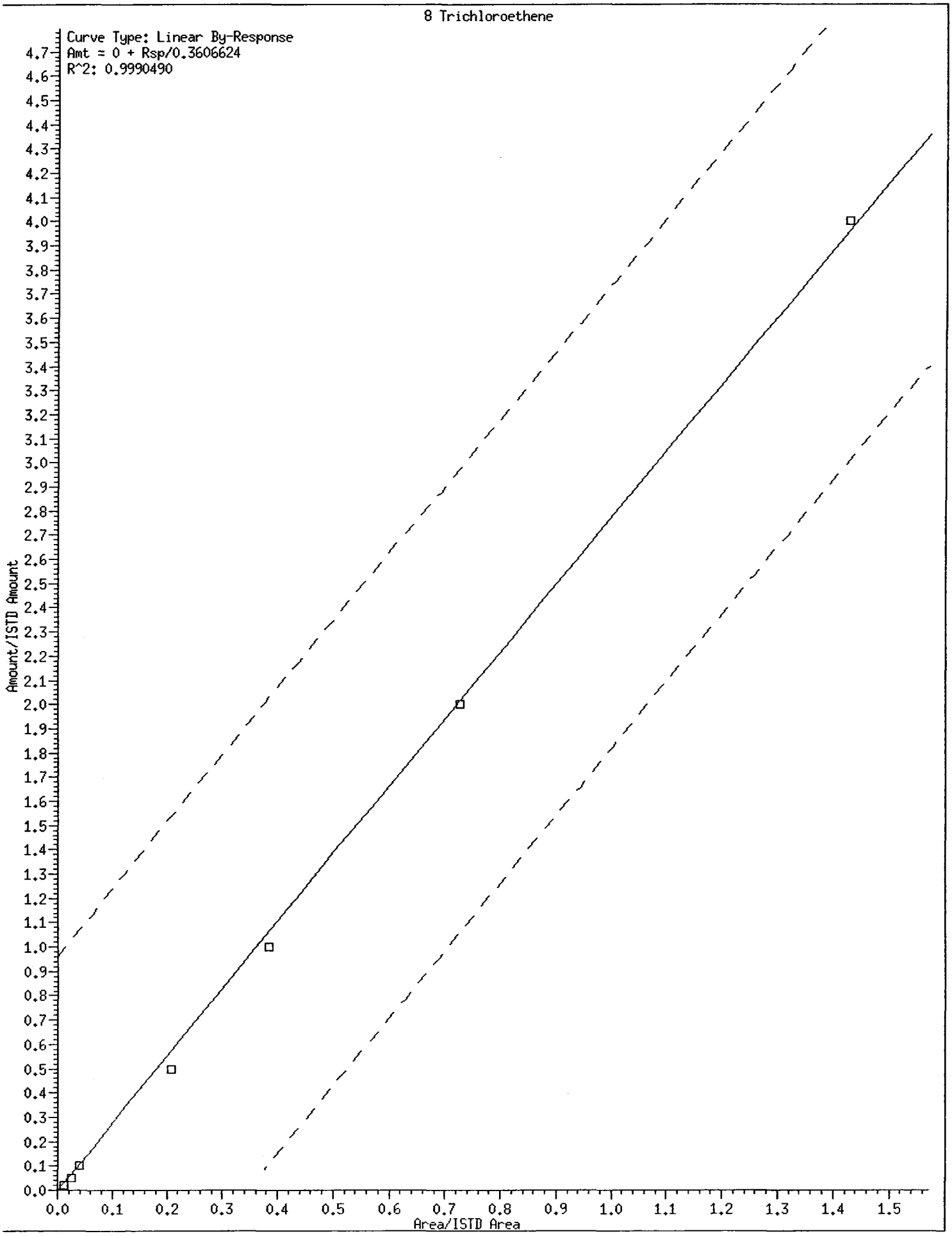
Average %RSD Results.	
Calculated Average %RSD =	24.01412
Maximun Average %RSD =	20.00000
* Failed Average %RSD Test.	

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Linear	Amt = b + Rsp/m1	Response


1 Vinyl Chloride
Curve Type: Linear By-Response
Amt = 0 + Rsp/0.4007542
R^2: 0.9944376
Amount/ISTD Amount
Area/ISTD Area


4 cis-1,2-dichloroethene
Curve Type: Linear By-Response
Amt = 0 + Rsp/0.456159
R^2: 0.9985603
Amount/ISTD Amount
Area/ISTD Area


5 Benzene
Curve Type: Linear By-Response
Amt = 0 + Rsp/1.960768
R^2: 0.9993998
Amount/ISTD Amount
Area/ISTD Area


8 Trichloroethene
Curve Type: Linear By-Response
Amt = 0 + Rsp/0.3606624
R^2: 0.9990490
Amount/ISTD Amount
Area/ISTD Area
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
1.4
1.5
1.6
1.7
1.8
1.9
2.0
2.1
2.2
2.3
2.4
2.5
2.6
2.7
2.8
2.9
3.0
3.1
3.2
3.3
3.4
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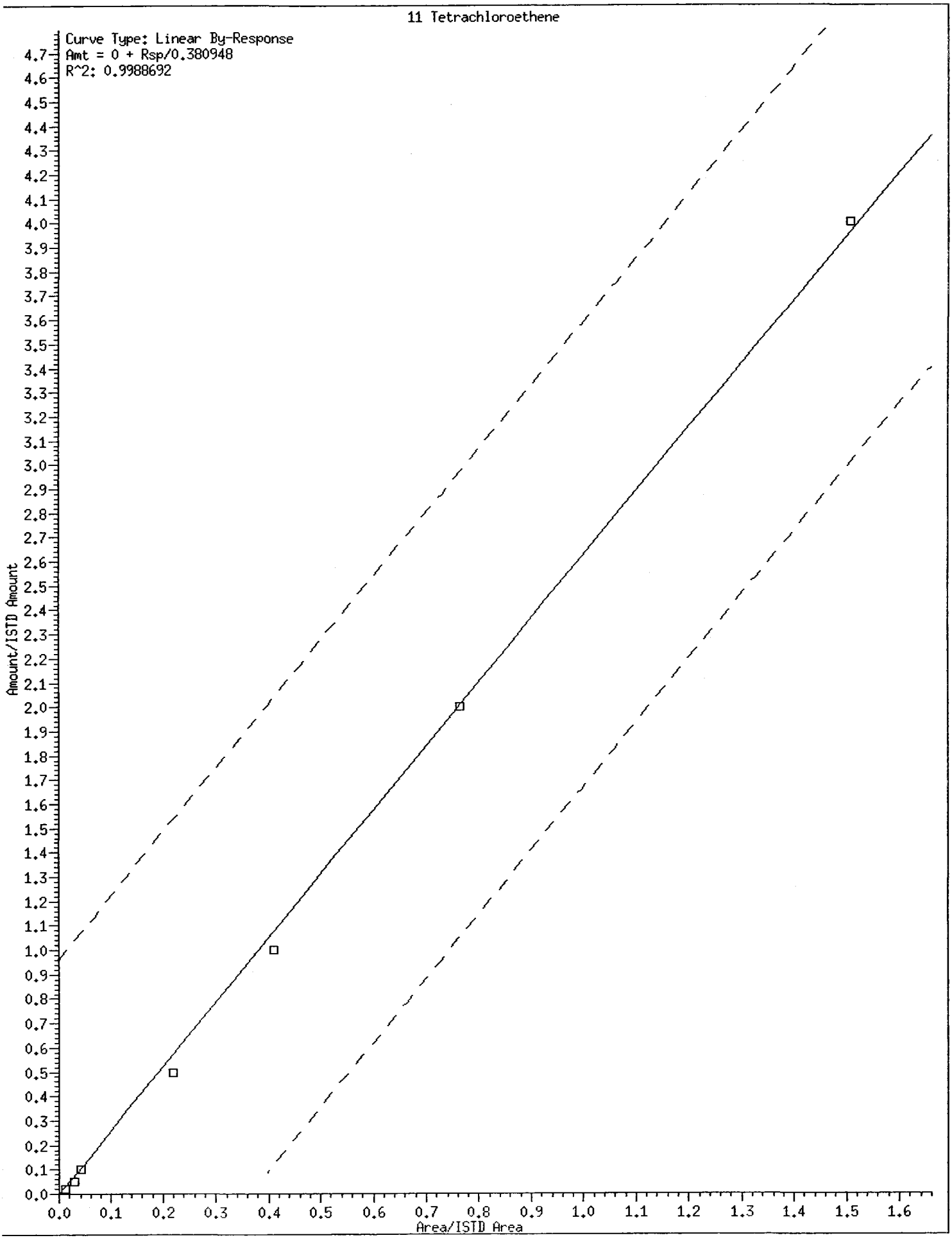
4.7


11 Tetrachloroethene
Curve Type: Linear By-Response
Amt = 0 + Rsp/0.380948
R^2: 0.9988692
Amount/ISTD Amount
Area/ISTD Area

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Analytical Resources, Inc.

Data file : /chem1/nt10.i/04MAR10.b/030404.d
Lab Smp Id: 00200304
Inj Date : 04-MAR-2010 13:56
Operator : JZ Inst ID: nt10.i
Smp Info : 00200304,10,10,0
Misc Info : 09-
Comment :
Method : /chem1/nt10.i/04MAR10.b/SIM030410.m
Meth Date : 08-Mar-2010 13:30 monicah Quant Type: ISTD
Cal Date : 04-MAR-2010 13:56 Cal File: 030404.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sim.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 08-Mar-2010 13:3 * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/L)	AMOUNTS ON-COL (ng/L)
1 Vinyl Chloride	62	1.614	1.614	(0.306)	514	20.0000	33.109
2 1,1-Dichloroethene	96	2.616	2.616	(0.496)	519	20.0000	25.829
3 Trans-1,2-Dichloroethene	96	3.420	3.421	(0.649)	521	20.0000	25.639
4 cis-1,2-dichloroethene	96	4.502	4.502	(0.854)	711	20.0000	40.236
5 Benzene	78	5.186	5.186	(0.984)	2618	20.0000	34.467
6 Pentafluorobenzene	168	5.272	5.272	(1.000)	38738	1000.00	
7 d4-1,2-Dichloroethane	65	5.289	5.290	(1.003)	12704	1000.00	1024.9
8 Trichloroethene	130	5.619	5.619	(0.993)	684	20.0000	34.154
9 1,4-Difluorobenzene	114	5.660	5.661	(1.000)	55529	1000.00	
10 d8-Toluene	98	6.632	6.632	(1.172)	61611	1000.00	995.49
11 Tetrachloroethene	166	6.937	6.925	(1.226)	721	20.0000	34.084
12 1,1,2,2-Tetrachloroethane	83	8.723	8.723	(1.541)	245	20.0000	26.276

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: 030404.d
Lab Smp Id: 00200304
Analysis Type: VOA
Quant Type: ISTD
Operator: JZ
Method File: /chem1/nt10.i/04MAR10.b/SIM030410.m
Misc Info: 09-

Calibration Date: 04-MAR-2010
Calibration Time: 15:57

Level: 15
Sample Type: WATER

Test Mode:
Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
6 Pentafluorobenzen	45054	22527	90108	38738	-14.02
9 1,4-Difluorobenze	66146	33073	132292	55529	-16.05

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
6 Pentafluorobenzen	5.27	4.77	5.77	5.27	0.00
9 1,4-Difluorobenze	5.66	5.16	6.16	5.66	0.00

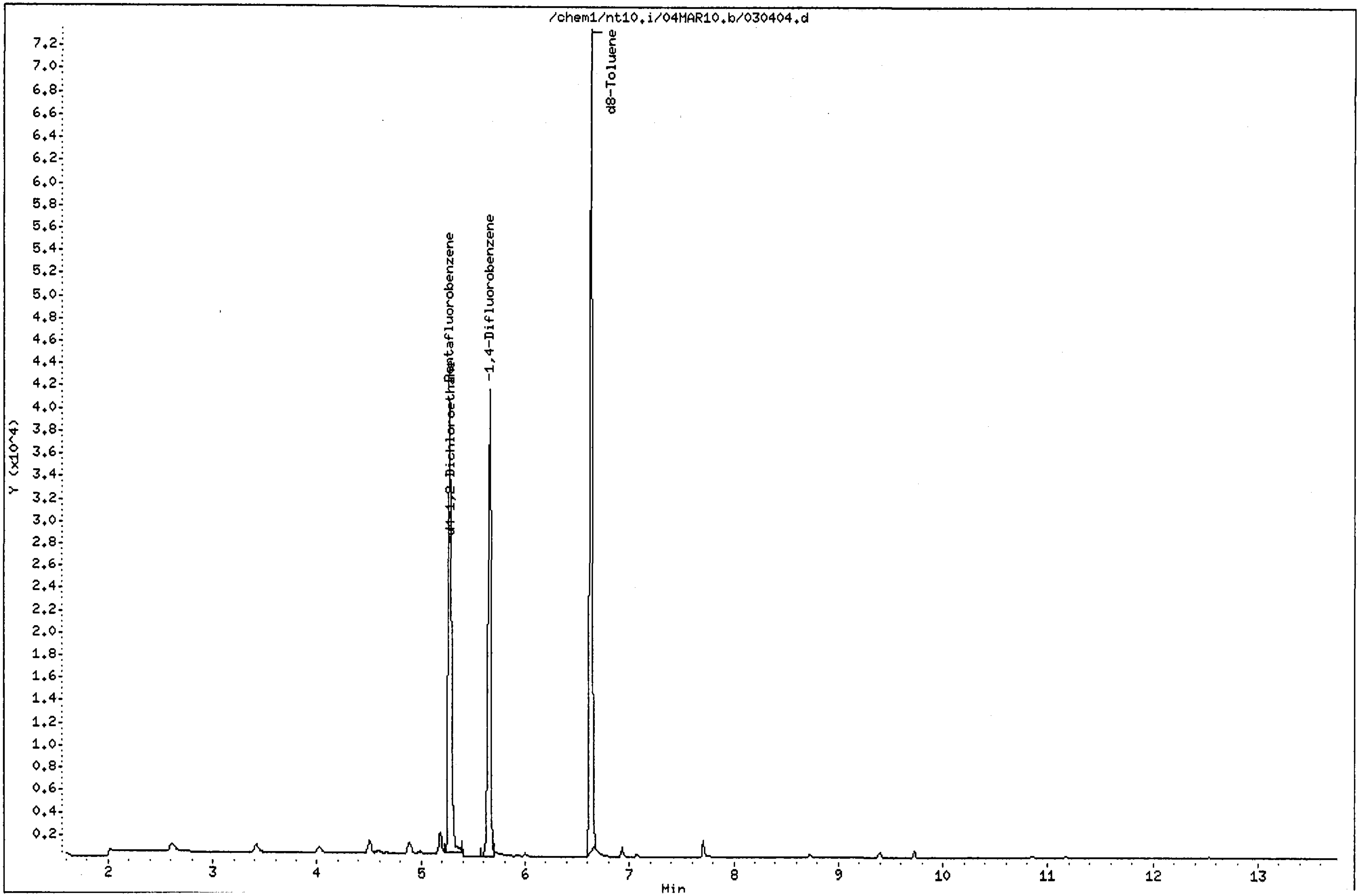
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem1/nt10.i/04MAR10.b/030404.d
Date : 04-MAR-2010 13:56
Client ID:
Sample Info: 00200304,10,10,0

Column phase: RTX502.2

Instrument: nt10.i

Operator: JZ
Column diameter: 0.18



MH 3/8/10

Data File: /chem1/nt10.i/04MAR10.b/030405.d
Report Date: 08-Mar-2010 13:31

Analytical Resources, Inc.

Data file : /chem1/nt10.i/04MAR10.b/030405.d
Lab Smp Id: 00500304
Inj Date : 04-MAR-2010 14:27
Operator : JZ Inst ID: nt10.i
Smp Info : 00500304,10,10,0
Misc Info : 09-
Comment :
Method : /chem1/nt10.i/04MAR10.b/SIM030410.m
Meth Date : 08-Mar-2010 13:30 monicah Quant Type: ISTD
Cal Date : 04-MAR-2010 14:27 Cal File: 030405.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sim.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 08-Mar-2010 13:3 * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/L)	ON-COL (ng/L)
1 Vinyl Chloride	62	1.614	1.614	(0.306)	1208	50.0000	72.094
2 1,1-Dichloroethene	96	2.616	2.616	(0.496)	1359	50.0000	62.663
3 Trans-1,2-Dichloroethene	96	3.421	3.421	(0.649)	1320	50.0000	60.184
4 cis-1,2-dichloroethene	96	4.502	4.502	(0.854)	1466	50.0000	76.865
5 Benzene	78	5.186	5.186	(0.984)	5869	50.0000	71.589
6 Pentafluorobenzene	168	5.272	5.272	(1.000)	41811	1000.00	
7 d4-1,2-Dichloroethane	65	5.289	5.290	(1.003)	14001	1000.00	1046.5
8 Trichloroethene	130	5.619	5.619	(0.993)	1568	50.0000	71.710
9 1,4-Difluorobenzene	114	5.660	5.661	(1.000)	60627	1000.00	
10 d8-Toluene	98	6.632	6.632	(1.172)	67314	1000.00	996.18
11 Tetrachloroethene	166	6.937	6.925	(1.226)	1684	50.0000	72.914
12 1,1,2,2-Tetrachloroethane	83	8.723	8.723	(1.541)	611	50.0000	60.019

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: 030405.d
Lab Smp Id: 00500304
Analysis Type: VOA
Quant Type: ISTD
Operator: JZ
Method File: /chem1/nt10.i/04MAR10.b/SIM030410.m
Misc Info: 09-

Calibration Date: 04-MAR-2010
Calibration Time: 15:57

Level: 15
Sample Type: WATER

Test Mode:
Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
6 Pentafluorobenzen	45054	22527	90108	41811	-7.20
9 1,4-Difluorobenze	66146	33073	132292	60627	-8.34

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
6 Pentafluorobenzen	5.27	4.77	5.77	5.27	0.00
9 1,4-Difluorobenze	5.66	5.16	6.16	5.66	0.00

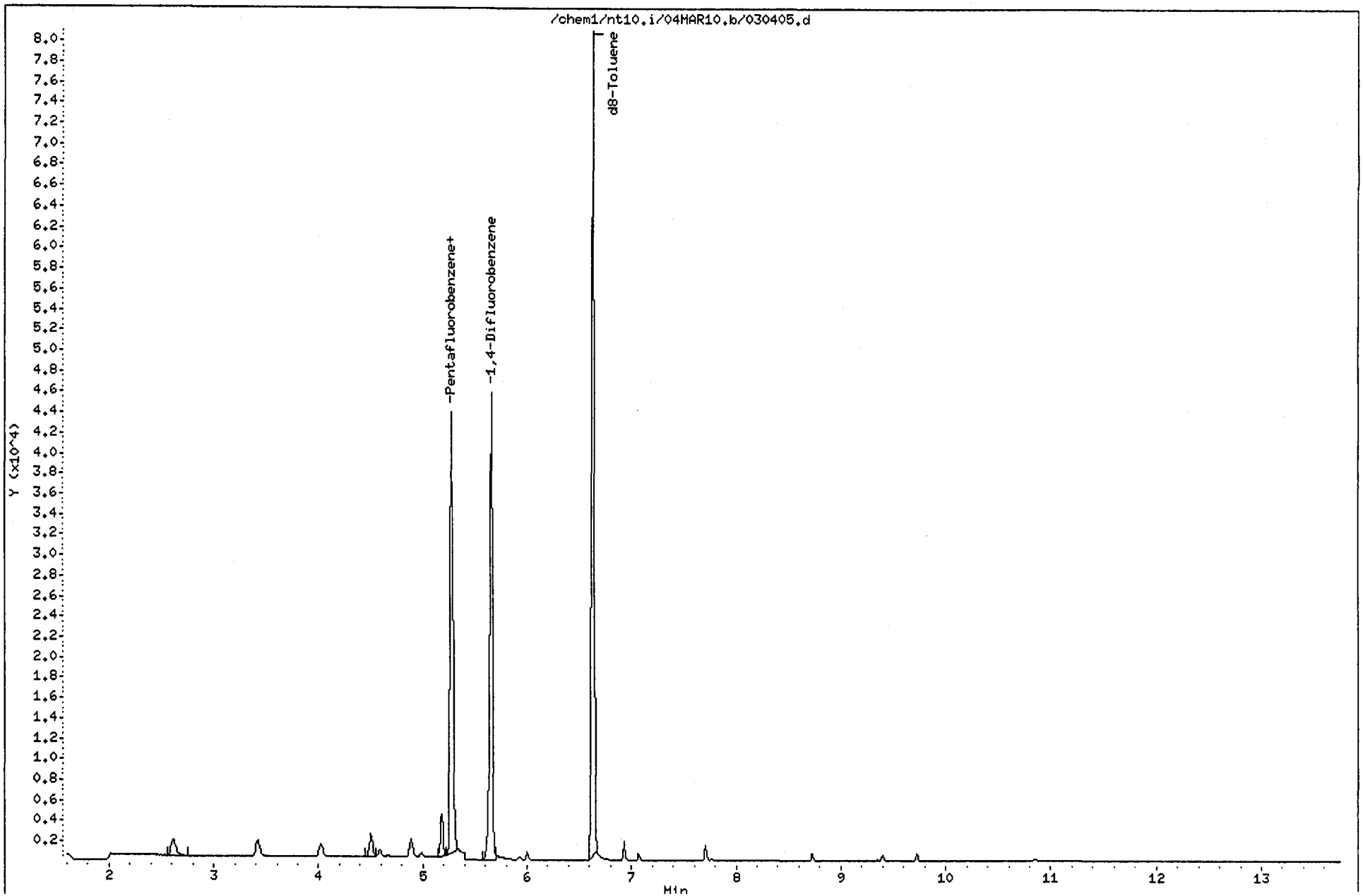
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem1/nt10.i/04MAR10.b/030405.d
Date : 04-MAR-2010 14:27
Client ID:
Sample Info: 00500304,10,10,0

Column phase: RTX502.2

Instrument: nt10.i

Operator: JZ
Column diameter: 0.18



Analytical Resources, Inc.

Data file : /chem1/nt10.i/04MAR10.b/030406.d
Lab Smp Id: 01000304
Inj Date : 04-MAR-2010 14:57
Operator : JZ Inst ID: nt10.i
Smp Info : 01000304,10,10,0
Misc Info : 09-
Comment :
Method : /chem1/nt10.i/04MAR10.b/SIM030410.m
Meth Date : 08-Mar-2010 13:30 monicah Quant Type: ISTD
Cal Date : 04-MAR-2010 14:57 Cal File: 030406.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sim.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 08-Mar-2010 13:3 * CpndVariable

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/L)	ON-COL (ng/L)
1	Vinyl Chloride	62	1.602	1.614	(0.304)	1738	100.000	101.78
2	1,1-Dichloroethene	96	2.607	2.616	(0.494)	1819	100.000	82.303
3	Trans-1,2-Dichloroethene	96	3.420	3.421	(0.649)	1915	100.000	85.677
4	cis-1,2-dichloroethene	96	4.502	4.502	(0.854)	2103	100.000	108.20
5	Benzene	78	5.177	5.186	(0.982)	8340	100.000	99.825
6	Pentafluorobenzene	168	5.272	5.272	(1.000)	42609	1000.00	
7	d4-1,2-Dichloroethane	65	5.289	5.290	(1.003)	14078	1000.00	1032.5
8	Trichloroethene	130	5.619	5.619	(0.993)	2405	100.000	108.47
9	1,4-Difluorobenzene	114	5.660	5.661	(1.000)	61477	1000.00	
10	d8-Toluene	98	6.632	6.632	(1.172)	68350	1000.00	997.52
11	Tetrachloroethene	166	6.925	6.925	(1.223)	2519	100.000	107.56
12	1,1,2,2-Tetrachloroethane	83	8.723	8.723	(1.541)	908	100.000	87.961

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: 030406.d
Lab Smp Id: 01000304
Analysis Type: VOA
Quant Type: ISTD
Operator: JZ
Method File: /chem1/nt10.i/04MAR10.b/SIM030410.m
Misc Info: 09-

Calibration Date: 04-MAR-2010
Calibration Time: 15:57

Level: 15
Sample Type: WATER

Test Mode:
Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
6 Pentafluorobenzen	45054	22527	90108	42609	-5.43
9 1,4-Difluorobenze	66146	33073	132292	61477	-7.06

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
6 Pentafluorobenzen	5.27	4.77	5.77	5.27	0.00
9 1,4-Difluorobenze	5.66	5.16	6.16	5.66	0.00

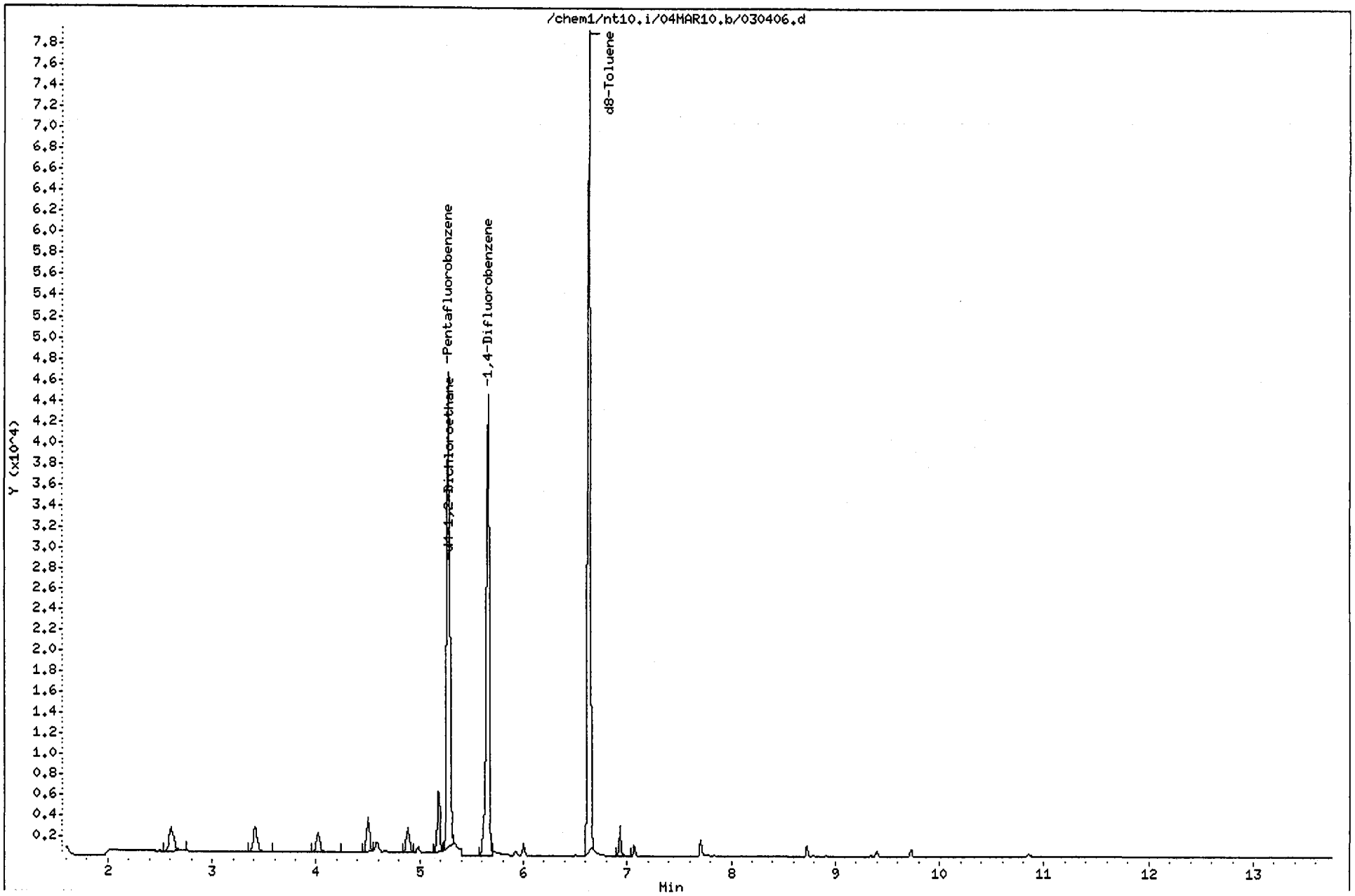
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem1/nt10.i/04MAR10.b/030406.d
Date : 04-MAR-2010 14:57
Client ID:
Sample Info: 01000304,10,10,0

Instrument: nt10.i

Operator: JZ
Column diameter: 0.18

Column phase: RTX502.2



Analytical Resources, Inc.

Data file : /chem1/nt10.i/04MAR10.b/030407.d
Lab Smp Id: 05000304
Inj Date : 04-MAR-2010 15:27
Operator : JZ Inst ID: nt10.i
Smp Info : 05000304,10,10,0
Misc Info : 09-
Comment :
Method : /chem1/nt10.i/04MAR10.b/SIM030410.m
Meth Date : 08-Mar-2010 13:30 monicah Quant Type: ISTD
Cal Date : 04-MAR-2010 15:27 Cal File: 030407.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sim.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 08-Mar-2010 13:3 * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/L)	ON-COL (ng/L)
1 Vinyl Chloride	62	1.602	1.614	(0.304)	9953	500.000	592.19
2 1,1-Dichloroethene	96	2.616	2.616	(0.496)	10801	500.000	496.51
3 Trans-1,2-Dichloroethene	96	3.421	3.421	(0.649)	11225	500.000	510.23
4 cis-1,2-dichloroethene	96	4.502	4.502	(0.854)	11178	500.000	584.29
5 Benzene	78	5.186	5.186	(0.984)	45995	500.000	559.33
6 Pentafluorobenzene	168	5.272	5.272	(1.000)	41939	1000.00	
7 d4-1,2-Dichloroethane	65	5.290	5.290	(1.003)	13271	1000.00	988.89
8 Trichloroethene	130	5.619	5.619	(0.993)	12701	500.000	575.31
9 1,4-Difluorobenzene	114	5.661	5.661	(1.000)	61212	1000.00	
10 d8-Toluene	98	6.632	6.632	(1.172)	68411	1000.00	1002.7
11 Tetrachloroethene	166	6.925	6.925	(1.223)	13470	500.000	577.65
12 1,1,2,2-Tetrachloroethane	83	8.723	8.723	(1.541)	5200	500.000	505.92

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: 030407.d
Lab Smp Id: 05000304
Analysis Type: VOA
Quant Type: ISTD
Operator: JZ
Method File: /chem1/nt10.i/04MAR10.b/SIM030410.m
Misc Info: 09-

Calibration Date: 04-MAR-2010
Calibration Time: 15:57

Level: 15
Sample Type: WATER

Test Mode:
Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
6 Pentafluorobenzen	45054	22527	90108	41939	-6.91
9 1,4-Difluorobenze	66146	33073	132292	61212	-7.46

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
6 Pentafluorobenzen	5.27	4.77	5.77	5.27	0.00
9 1,4-Difluorobenze	5.66	5.16	6.16	5.66	0.00

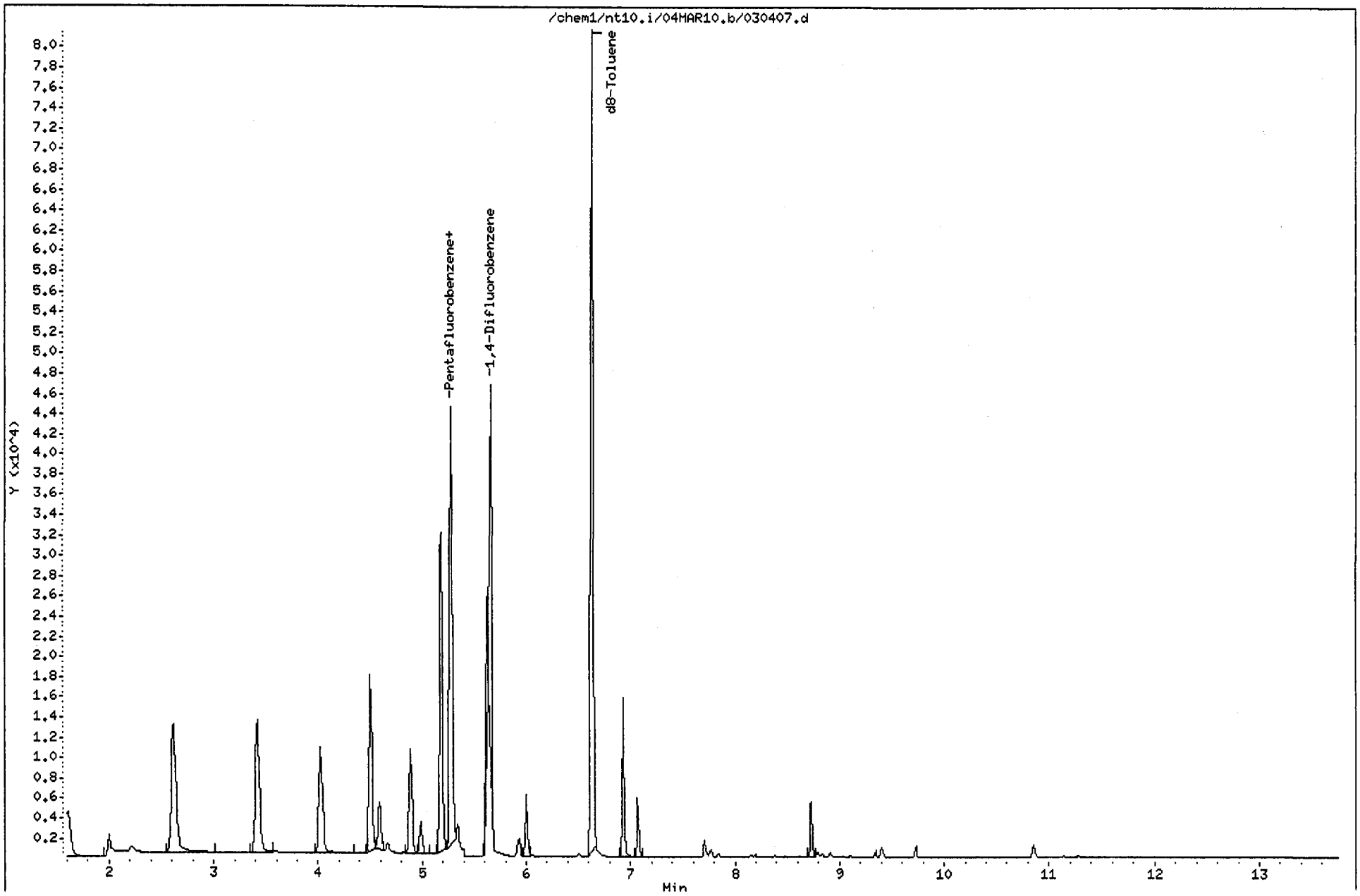
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem1/nt10.i/04MAR10.b/030407.d
Date : 04-MAR-2010 15:27
Client ID:
Sample Info: 05000304,10,10,0

Instrument: nt10.i

Operator: JZ
Column diameter: 0.18

Column phase: RTX502.2



Analytical Resources, Inc.

Data file : /chem1/nt10.i/04MAR10.b/030408.d
Lab Smp Id: 10000304
Inj Date : 04-MAR-2010 15:57
Operator : JZ Inst ID: nt10.i
Smp Info : 10000304,10,10,0
Misc Info : 09-
Comment :
Method : /chem1/nt10.i/04MAR10.b/SIM030410.m
Meth Date : 08-Mar-2010 13:30 monicah Quant Type: ISTD
Cal Date : 04-MAR-2010 15:57 Cal File: 030408.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sim.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 08-Mar-2010 13:3 * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/L)	ON-COL (ng/L)
1 Vinyl Chloride	62	1.614	1.614	(0.306)	17765	1000.00	983.91
2 1,1-Dichloroethene	96	2.616	2.616	(0.496)	21167	1000.00	905.75
3 Trans-1,2-Dichloroethene	96	3.421	3.421	(0.649)	21173	1000.00	895.88
4 cis-1,2-dichloroethene	96	4.502	4.502	(0.854)	21809	1000.00	1061.2
5 Benzene	78	5.186	5.186	(0.984)	93191	1000.00	1054.9
6 Pentafluorobenzene	168	5.272	5.272	(1.000)	45054	1000.00	
7 d4-1,2-Dichloroethane	65	5.290	5.290	(1.003)	13796	1000.00	956.93
8 Trichloroethene	130	5.619	5.619	(0.993)	25380	1000.00	1063.9
9 1,4-Difluorobenzene	114	5.661	5.661	(1.000)	66146	1000.00	
10 d8-Toluene	98	6.632	6.632	(1.172)	73736	1000.00	1000.2
11 Tetrachloroethene	166	6.925	6.925	(1.223)	27189	1000.00	1079.0
12 1,1,2,2-Tetrachloroethane	83	8.723	8.723	(1.541)	9843	1000.00	886.22

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: 030408.d
Lab Smp Id: 10000304
Analysis Type: VOA
Quant Type: ISTD
Operator: JZ
Method File: /chem1/nt10.i/04MAR10.b/SIM030410.m
Misc Info: 09-

Calibration Date: 04-MAR-2010
Calibration Time: 15:57

Level: 15
Sample Type: WATER

Test Mode:
Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
6 Pentafluorobenzen	45054	22527	90108	45054	0.00
9 1,4-Difluorobenze	66146	33073	132292	66146	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
6 Pentafluorobenzen	5.27	4.77	5.77	5.27	0.00
9 1,4-Difluorobenze	5.66	5.16	6.16	5.66	0.00

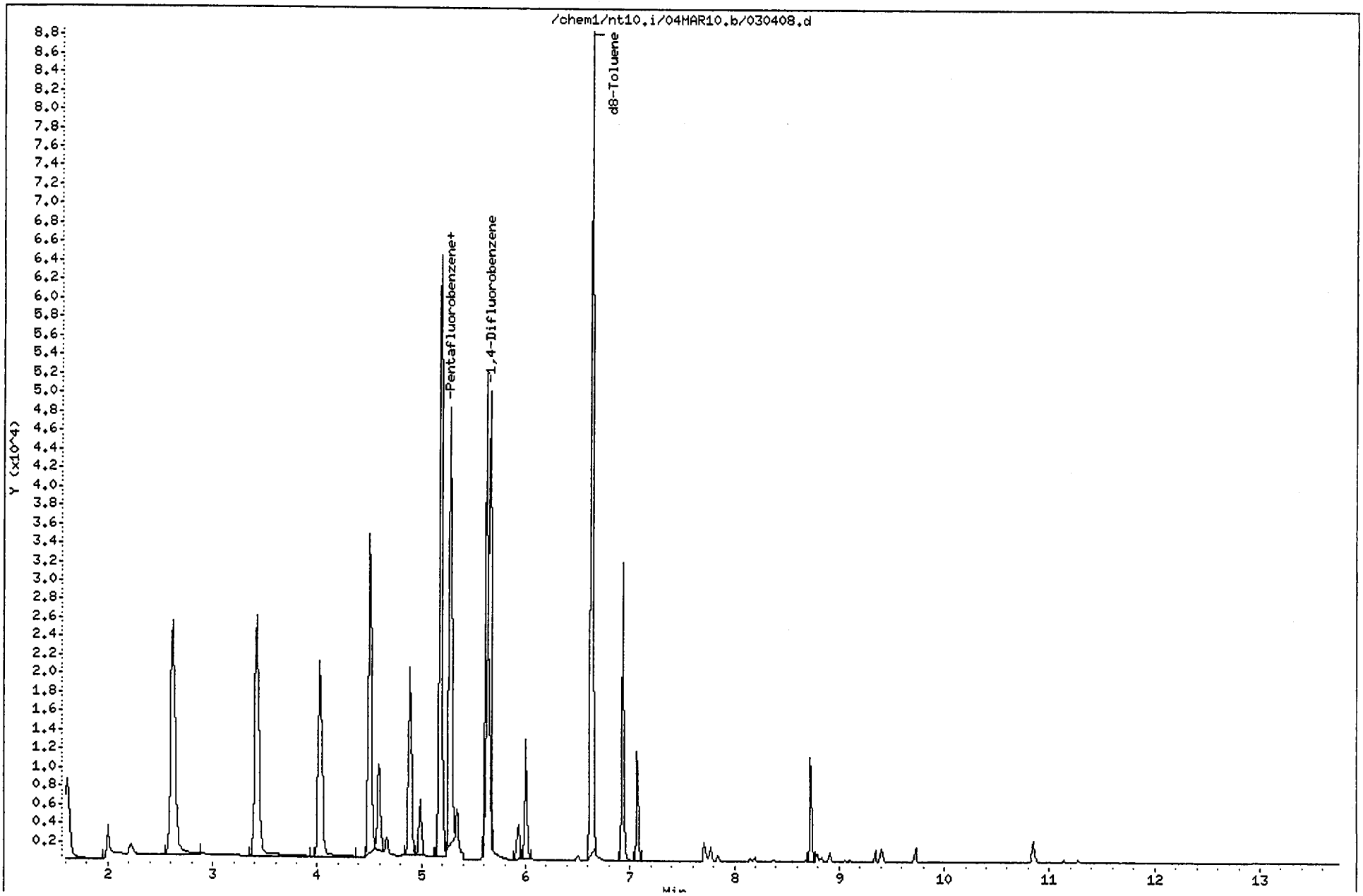
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem1/nt10.i/04MAR10.b/030408.d
Date : 04-MAR-2010 15:57
Client ID:
Sample Info: 10000304,10,10,0

Column phase: RTX502.2

Instrument: nt10.i

Operator: JZ
Column diameter: 0.18



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Analytical Resources, Inc.

Data file : /chem1/nt10.i/04MAR10.b/030409.d
Lab Smp Id: 20000304
Inj Date : 04-MAR-2010 16:28
Operator : JZ Inst ID: nt10.i
Smp Info : 20000304,10,10,0
Misc Info : 09-
Comment :
Method : /chem1/nt10.i/04MAR10.b/SIM030410.m
Meth Date : 08-Mar-2010 13:30 monicah Quant Type: ISTD
Cal Date : 04-MAR-2010 16:28 Cal File: 030409.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sim.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 08-Mar-2010 13:3 * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/L)	ON-COL (ng/L)
1 Vinyl Chloride	62	1.602	1.614	(0.304)	37269	2000.00	2211.6
2 1,1-Dichloroethene	96	2.616	2.616	(0.496)	40555	2000.00	1859.4
3 Trans-1,2-Dichloroethene	96	3.420	3.421	(0.649)	39578	2000.00	1794.3
4 cis-1,2-dichloroethene	96	4.502	4.502	(0.854)	39418	2000.00	2055.1
5 Benzene	78	5.186	5.186	(0.984)	164737	2000.00	1998.1
* 6 Pentafluorobenzene	168	5.272	5.272	(1.000)	42049	1000.00	
; 7 d4-1,2-Dichloroethane	65	5.289	5.290	(1.003)	12787	1000.00	950.33
8 Trichloroethene	130	5.619	5.619	(0.993)	44730	2000.00	2017.6
* 9 1,4-Difluorobenzene	114	5.660	5.661	(1.000)	61471	1000.00	
; 10 d8-Toluene	98	6.632	6.632	(1.172)	69055	1000.00	1007.9
11 Tetrachloroethene	166	6.937	6.925	(1.226)	47025	2000.00	2008.1
12 1,1,2,2-Tetrachloroethane	83	8.723	8.723	(1.541)	18317	2000.00	1774.6

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: 030409.d
Lab Smp Id: 20000304
Analysis Type: VOA
Quant Type: ISTD
Operator: JZ
Method File: /chem1/nt10.i/04MAR10.b/SIM030410.m
Misc Info: 09-

Calibration Date: 04-MAR-2010
Calibration Time: 15:57

Level: 15
Sample Type: WATER

Test Mode:
Use Initial Calibration Level 5.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
6 Pentafluorobenzen	45054	22527	90108	42049	-6.67
9 1,4-Difluorobenze	66146	33073	132292	61471	-7.07

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
6 Pentafluorobenzen	5.27	4.77	5.77	5.27	0.00
9 1,4-Difluorobenze	5.66	5.16	6.16	5.66	0.00

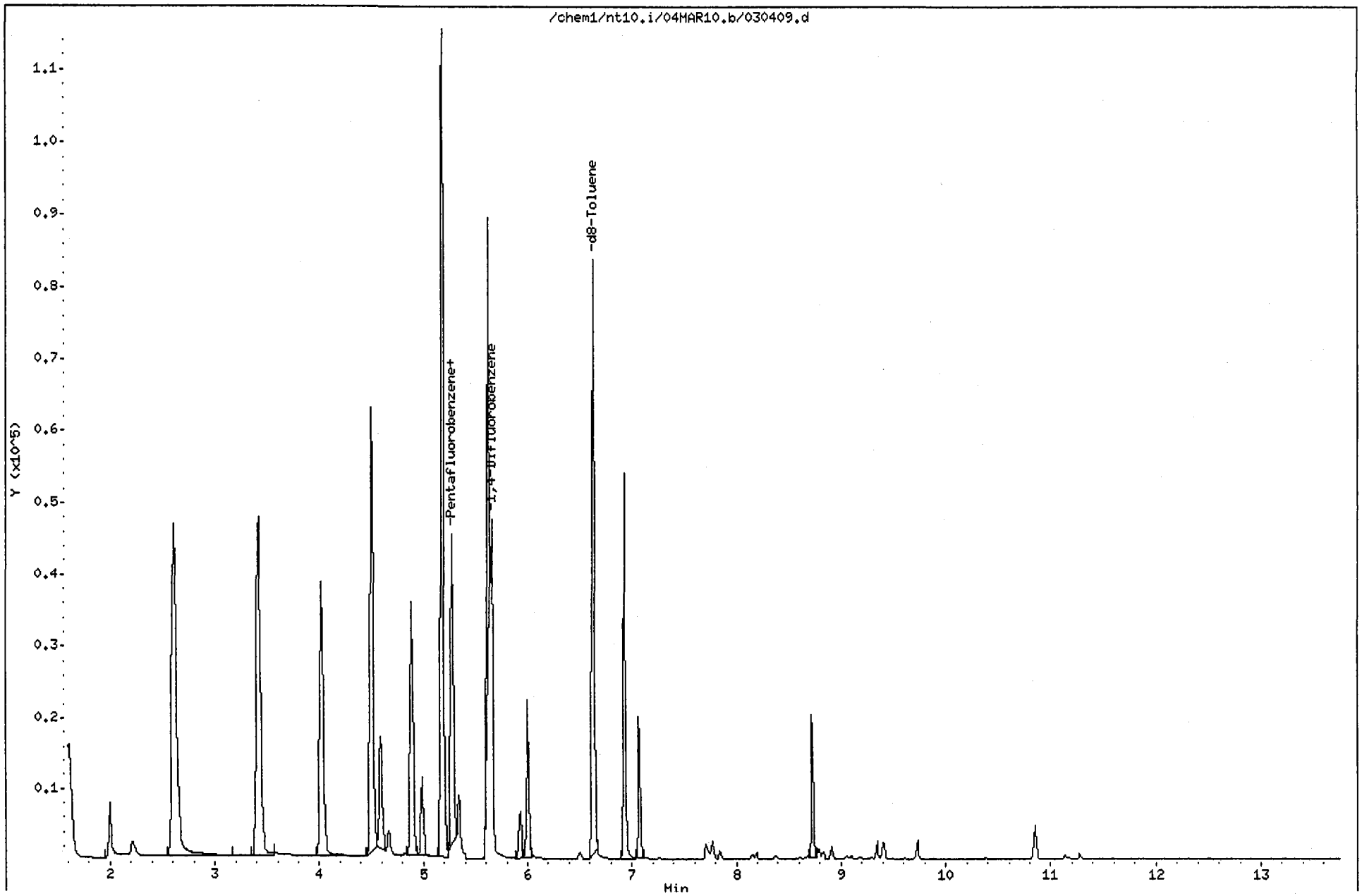
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem1/nt10.i/04MAR10.b/030409.d
Date : 04-MAR-2010 16:28
Client ID:
Sample Info: 20000304,10,10,0

Column phase: RTX502.2

Instrument: nt10.i

Operator: JZ
Column diameter: 0.18



Analytical Resources, Inc.

Data file : /chem1/nt10.i/04MAR10.b/030410.d
Lab Smp Id: 40000304
Inj Date : 04-MAR-2010 16:58
Operator : JZ Inst ID: nt10.i
Smp Info : 40000304,10,10,0
Misc Info : 09-
Comment :
Method : /chem1/nt10.i/04MAR10.b/SIM030410.m
Meth Date : 08-Mar-2010 13:30 monicah Quant Type: ISTD
Cal Date : 04-MAR-2010 16:58 Cal File: 030410.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sim.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 08-Mar-2010 13:3 * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/L)	ON-COL (ng/L)
1 Vinyl Chloride	62	1.614	1.614	(0.306)	69910	4000.00	3868.4
2 1,1-Dichloroethene	96	2.616	2.616	(0.496)	75204	4000.00	3215.1
3 Trans-1,2-Dichloroethene	96	3.421	3.421	(0.649)	79871	4000.00	3376.4
4 cis-1,2-dichloroethene	96	4.502	4.502	(0.854)	81076	4000.00	3941.4
5 Benzene	78	5.186	5.186	(0.984)	351699	4000.00	3977.6
6 Pentafluorobenzene	168	5.272	5.272	(1.000)	45095	1000.00	
7 d4-1,2-Dichloroethane	65	5.290	5.290	(1.003)	13562	4000.00	939.84
8 Trichloroethene	130	5.619	5.619	(0.993)	95266	4000.00	3962.2
9 1,4-Difluorobenzene	114	5.661	5.661	(1.000)	66665	1000.00	
10 d8-Toluene	98	6.632	6.632	(1.172)	75349	4000.00	1014.1
11 Tetrachloroethene	166	6.926	6.925	(1.223)	100626	4000.00	3962.3
12 1,1,2,2-Tetrachloroethane	83	8.723	8.723	(1.541)	36754	4000.00	3283.4

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: 030410.d
Lab Smp Id: 40000304
Analysis Type: VOA
Quant Type: ISTD
Operator: JZ
Method File: /chem1/nt10.i/04MAR10.b/SIM030410.m
Misc Info: 09-

Calibration Date: 04-MAR-2010
Calibration Time: 15:57

Level: 15
Sample Type: WATER

Test Mode:
Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
6 Pentafluorobenzen	45054	22527	90108	45095	0.09
9 1,4-Difluorobenze	66146	33073	132292	66665	0.78

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
6 Pentafluorobenzen	5.27	4.77	5.77	5.27	0.00
9 1,4-Difluorobenze	5.66	5.16	6.16	5.66	0.00

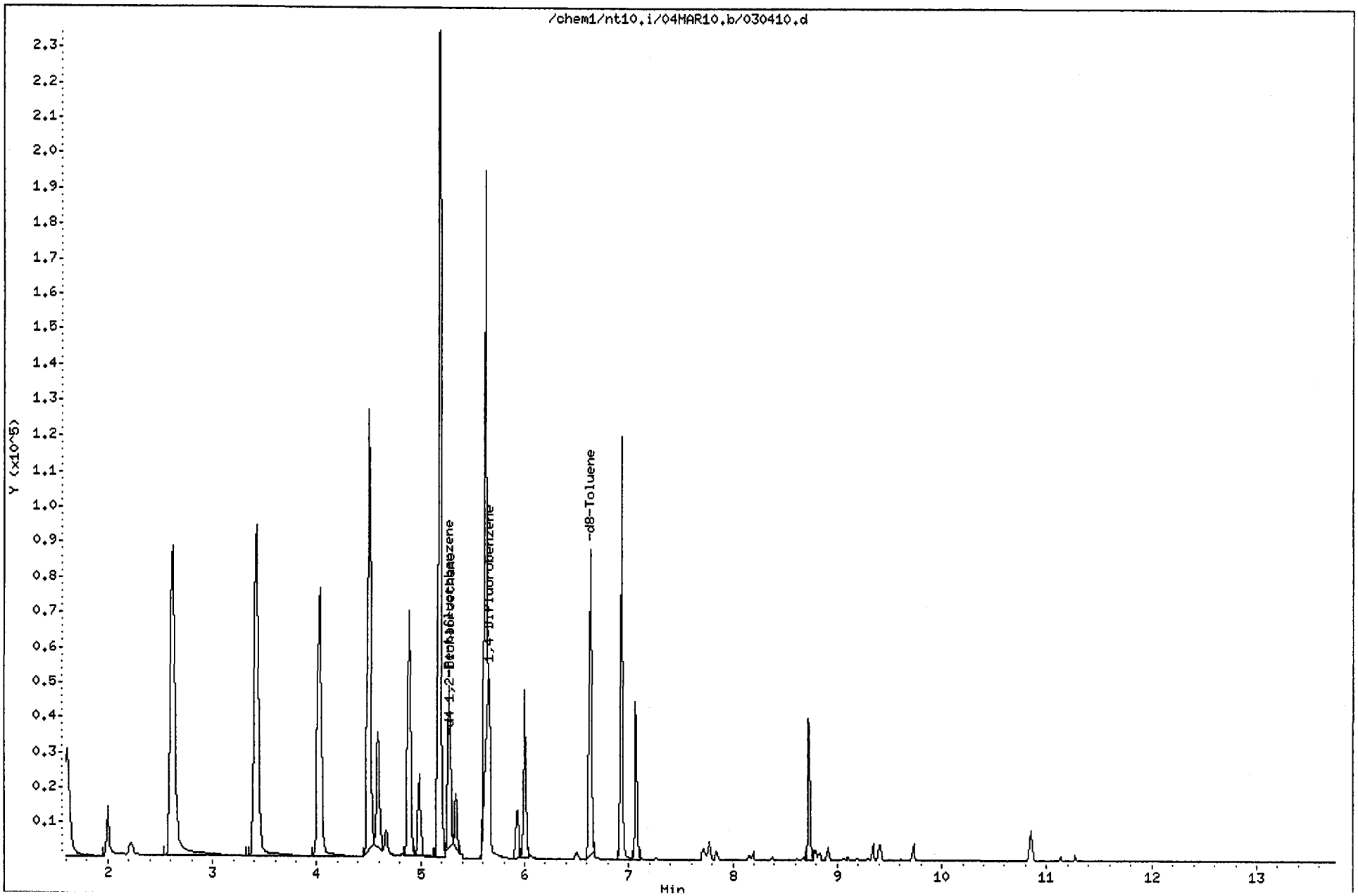
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem1/nt10.i/04MAR10.b/030410.d
Date : 04-MAR-2010 16:58
Client ID:
Sample Info: 40000304,10,10,0

Instrument: nt10.i

Operator: JZ
Column diameter: 0.18

Column phase: RTX502.2



Analytical Resources, Inc.

Data file : /chem1/nt10.i/04MAR10.b/030411.d
Lab Smp Id: ICV0304
Inj Date : 04-MAR-2010 17:28
Operator : JZ Inst ID: nt10.i
Smp Info : ICV0304,10,10,0
Misc Info : 09-
Comment :
Method : /chem1/nt10.i/04MAR10.b/SIM030410.m
Meth Date : 08-Mar-2010 13:30 monicah Quant Type: ISTD
Cal Date : 04-MAR-2010 16:58 Cal File: 030410.d
Als bottle: 1 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sim.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 08-Mar-2010 13:3 * CpndVariable

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/L)	FINAL (ug/L)
1	Vinyl Chloride	62	1.614	1.614	(0.306)	16574	927.225	927.23
2	1,1-Dichloroethene	96	2.616	2.616	(0.496)	17713	765.616	765.62(R)
3	Trans-1,2-Dichloroethene	96	3.420	3.421	(0.649)	19560	835.994	835.99
4	cis-1,2-dichloroethene	96	4.502	4.502	(0.854)	20256	995.574	995.57
5	Benzene	78	5.186	5.186	(0.984)	86402	987.947	987.95
6	Pentafluorobenzene	168	5.272	5.272	(1.000)	44603	1000.00	
7	d4-1,2-Dichloroethane	65	5.289	5.290	(1.003)	13533	948.179	948.18
8	Trichloroethene	130	5.619	5.619	(0.993)	23988	1013.38	1013.4
9	1,4-Difluorobenzene	114	5.660	5.661	(1.000)	65633	1000.00	
10	d8-Toluene	98	6.632	6.632	(1.172)	73372	1003.01	1003.0
11	Tetrachloroethene	166	6.925	6.925	(1.223)	25497	1019.77	1019.8
12	1,1,2,2-Tetrachloroethane	83	8.723	8.723	(1.541)	9117	827.266	827.27

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: 030411.d
Lab Smp Id: ICV0304
Analysis Type: VOA
Quant Type: ISTD
Operator: JZ
Method File: /chem1/nt10.i/04MAR10.b/SIM030410.m
Misc Info: 09-

Calibration Date: 04-MAR-2010
Calibration Time: 15:57

Level: 15
Sample Type: WATER

Test Mode:
Use Initial Calibration Level 5.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
6 Pentafluorobenzen	45054	22527	90108	44603	-1.00
9 1,4-Difluorobenze	66146	33073	132292	65633	-0.78

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
6 Pentafluorobenzen	5.27	4.77	5.77	5.27	0.00
9 1,4-Difluorobenze	5.66	5.16	6.16	5.66	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: ICV0304
Level:
Data Type: MS DATA
SpikeList File: sim.spk
Sublist File: sim.sub
Method File: /chem1/nt10.i/04MAR10.b/SIM030410.m
Misc Info: 09-

Client SDG: 04MAR10
Fraction: VOA

RECOVERY REPORT
SampleType: LCSD
Quant Type: ISTD

Operator: JZ

	SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1	Vinyl Chloride	1000.0	927.23	92.72	76-120
3	Trans-1,2-Dichloro	1000.0	835.99	83.60	70-130
2	1,1-Dichloroethene	1000.0	765.62	76.56*	79-126
4	cis-1,2-dichloroet	1000.0	995.57	99.56	76-127
5	Benzene	1000.0	987.95	98.79	75-121
8	Trichloroethene	1000.0	1013.4	101.34	79-120
11	Tetrachloroethene	1000.0	1019.8	101.98	75-123
12	1,1,2,2-Tetrachlor	1000.0	827.27	82.73	72-129

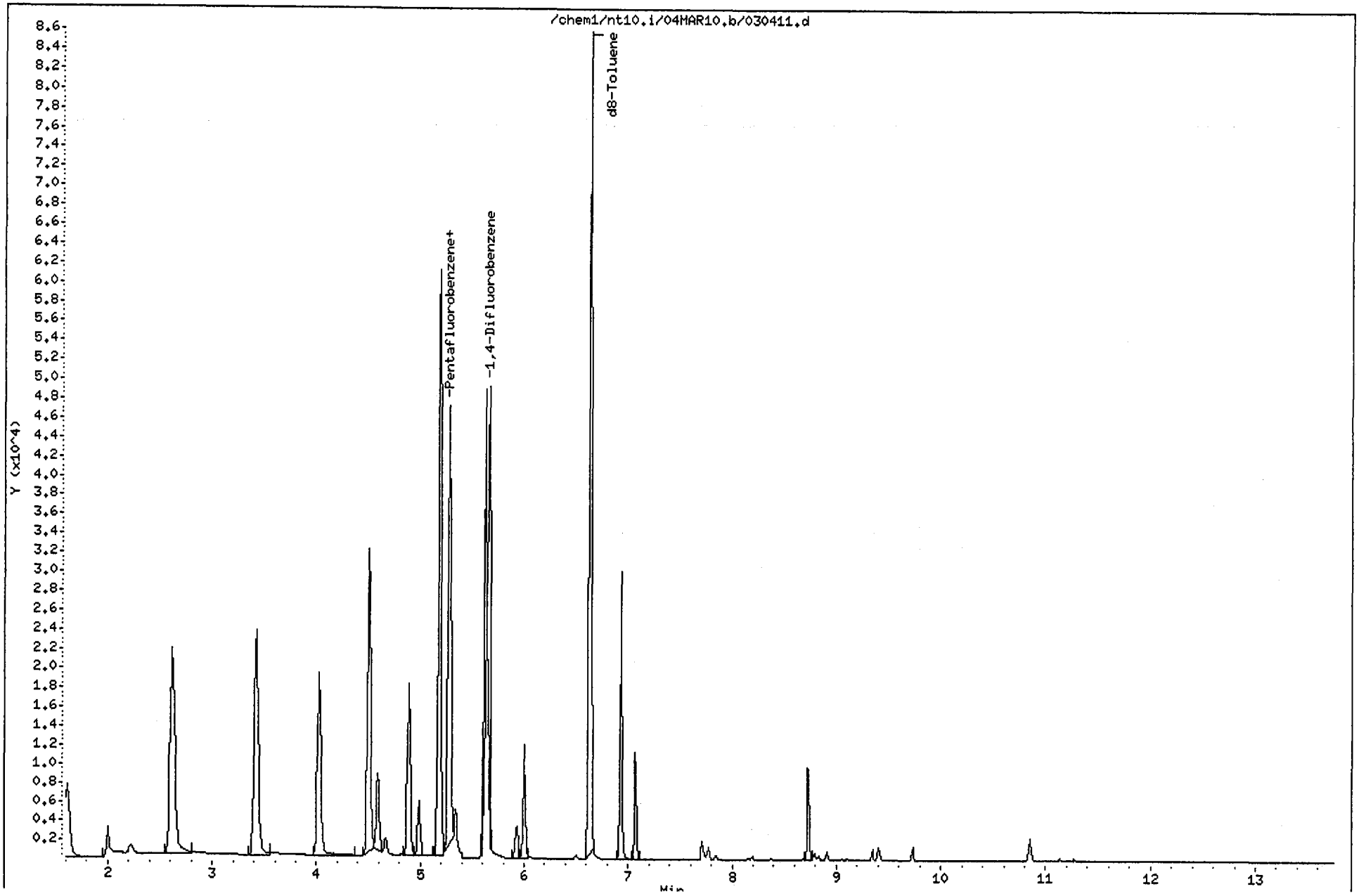
	SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 7	d4-1,2-Dichloroeth	1000.0	948.18	94.82	70-130
$ 10	d8-Toluene	1000.0	1003.0	100.30	70-130

Data File: /chem1/nt10.i/04MAR10.b/030411.d
Date : 04-MAR-2010 17:28
Client ID:
Sample Info: ICV0304,10,10,0

Column phase: RTX502.2

Instrument: nt10.i

Operator: JZ
Column diameter: 0.18



Data File: /chem1/nt10.i/04MAR10.b/030411.d

Date : 04-MAR-2010 17:28

Client ID:

Instrument: nt10.i

Sample Info: ICV0304,10,10,0

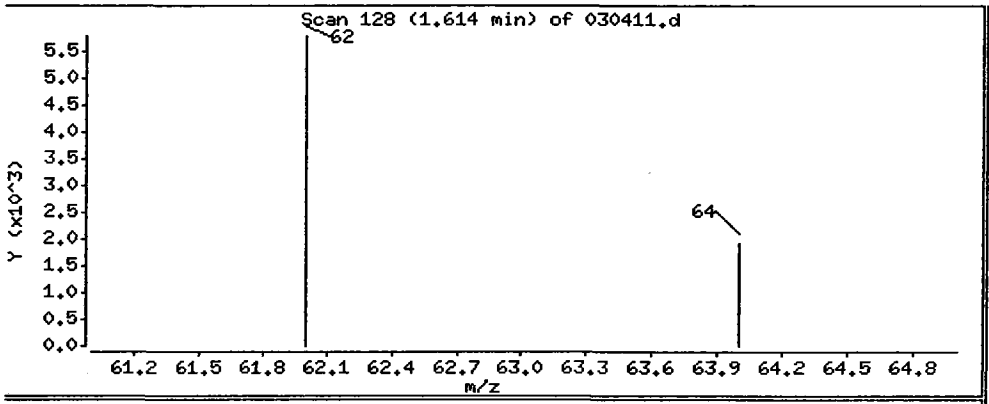
Operator: JZ

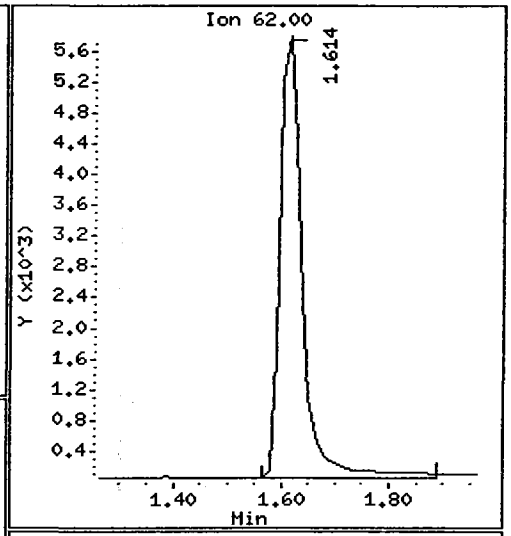
Column phase: RTX502.2

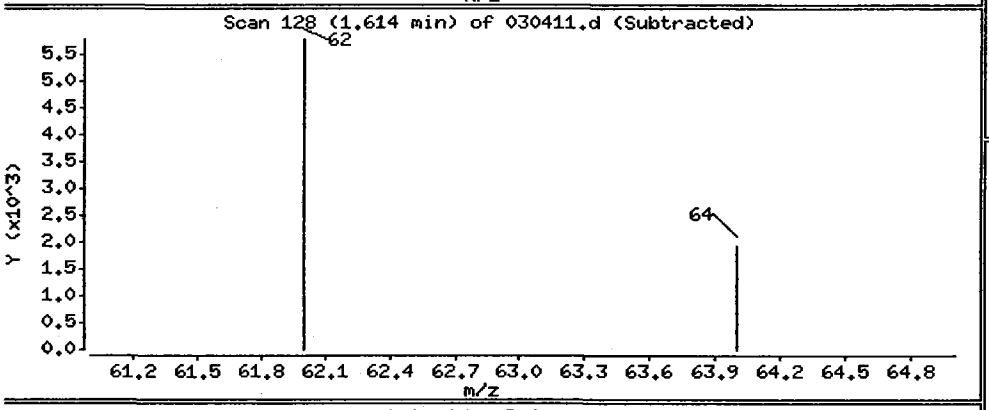
Column diameter: 0.18

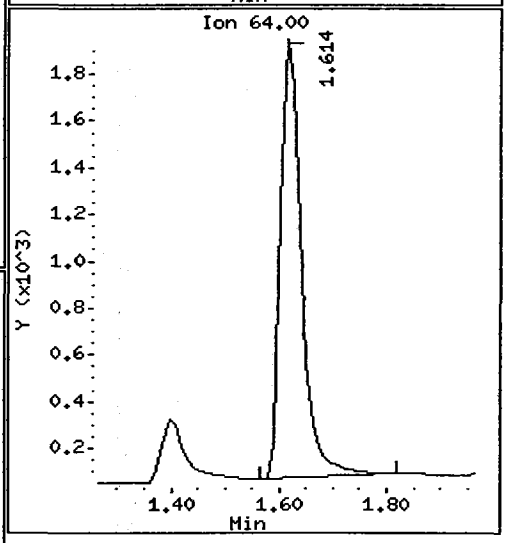
1 Vinyl Chloride

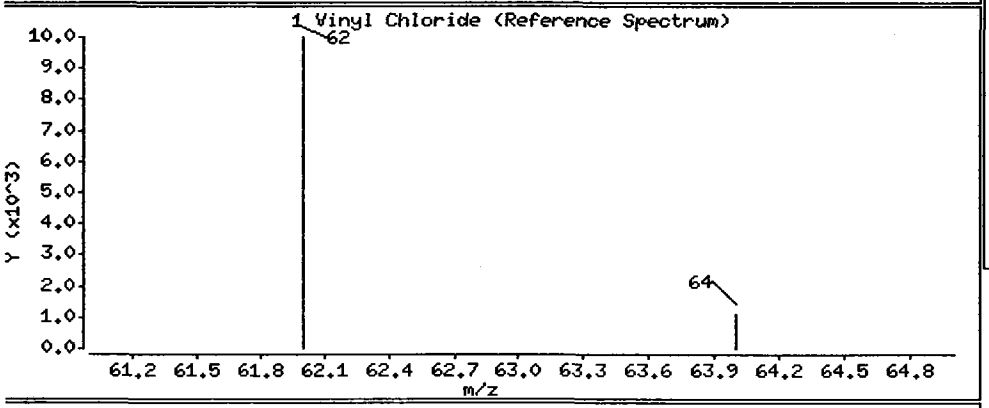
Concentration: 927.23 ug/L

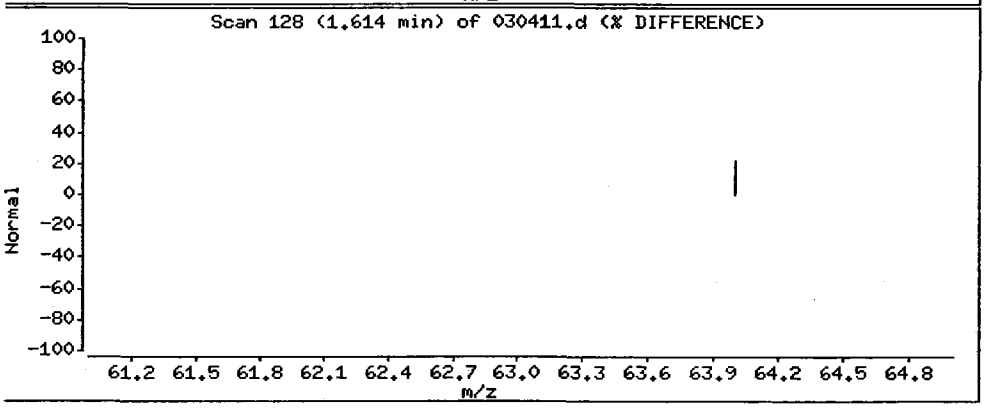












Data File: /chem1/nt10.i/04MAR10.b/030411.d

Date : 04-MAR-2010 17:28

Client ID:

Instrument: nt10.i

Sample Info: ICV0304,10,10,0

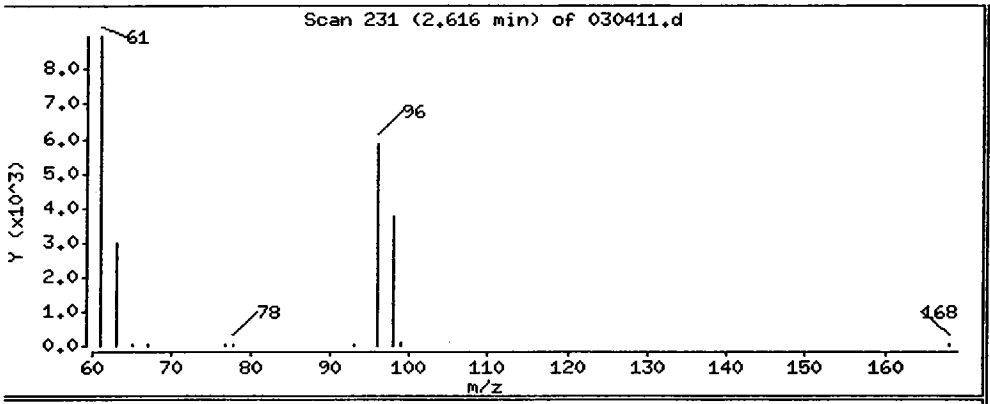
Operator: JZ

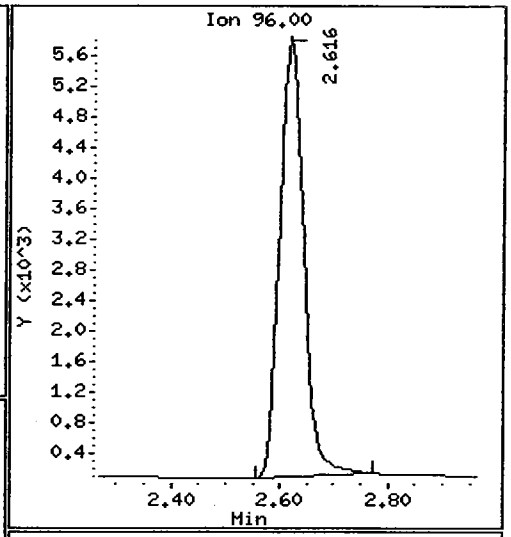
Column phase: RTX502.2

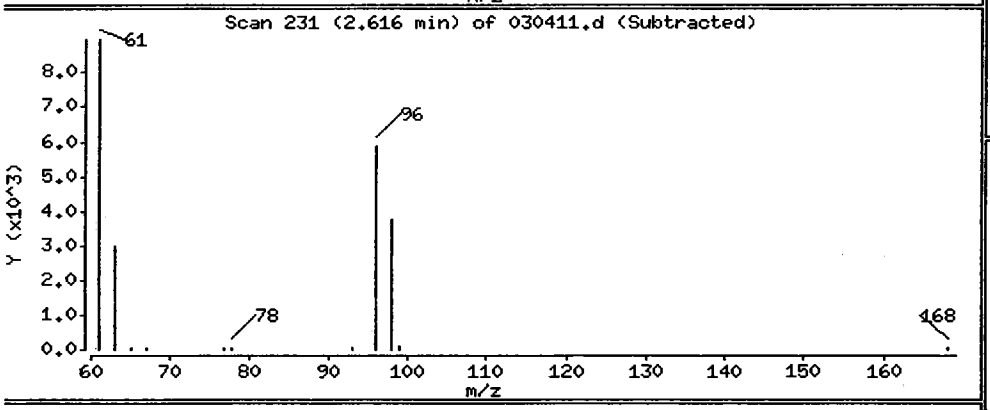
Column diameter: 0.18

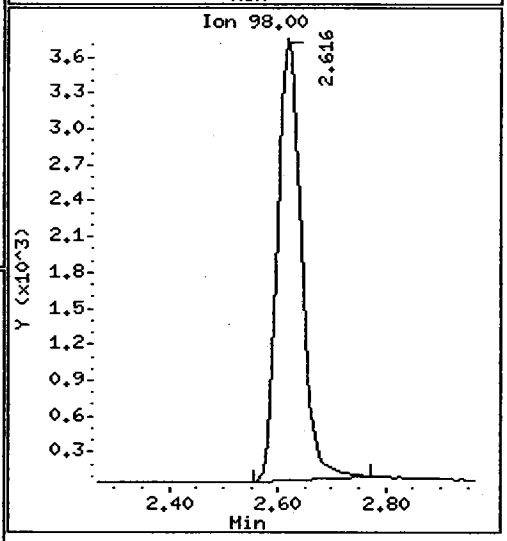
2 1,1-Dichloroethene

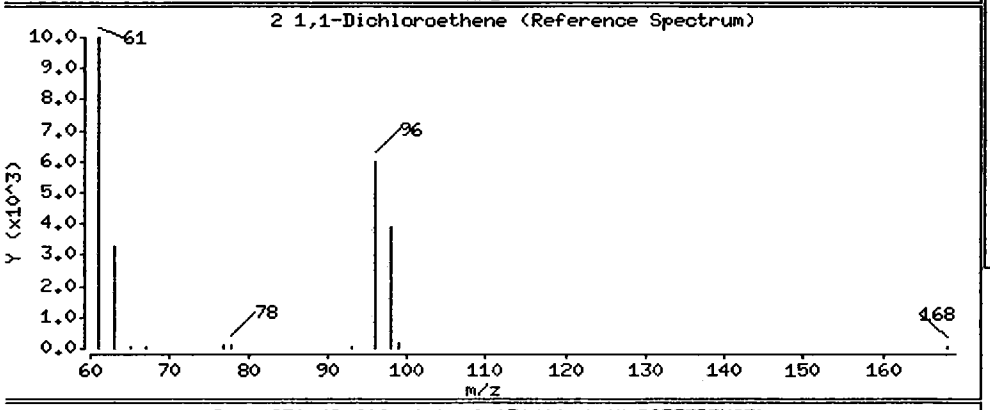
Concentration: 765.62 ug/L

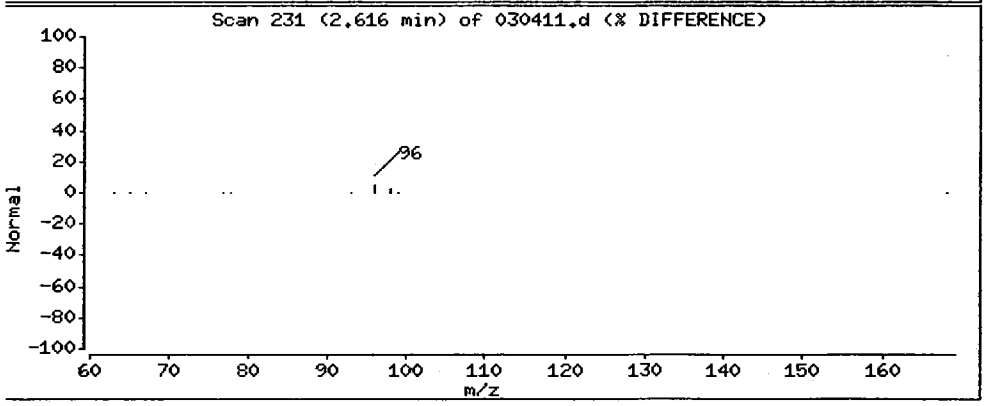












Data File: /chem1/nt10.i/04MAR10.b/030411.d

Date : 04-MAR-2010 17:28

Client ID:

Instrument: nt10.i

Sample Info: ICV0304,10,10,0

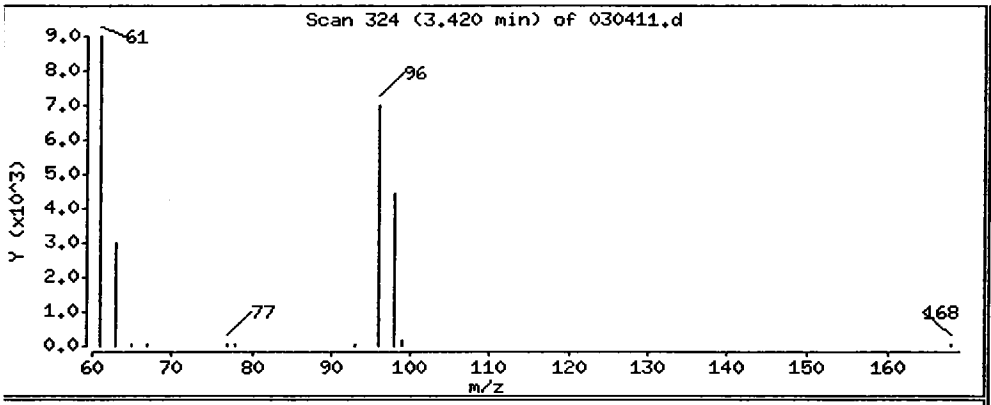
Operator: JZ

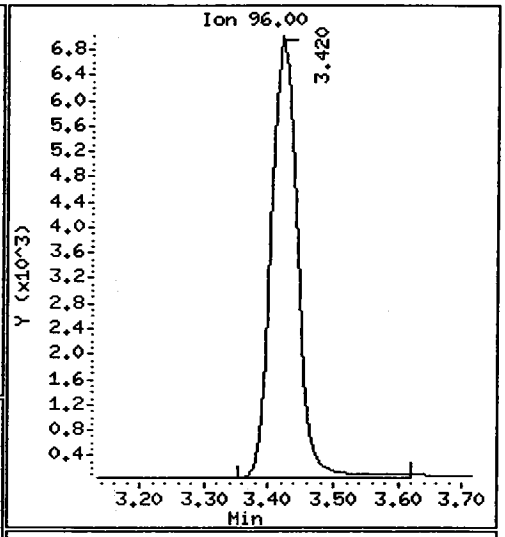
Column phase: RTX502.2

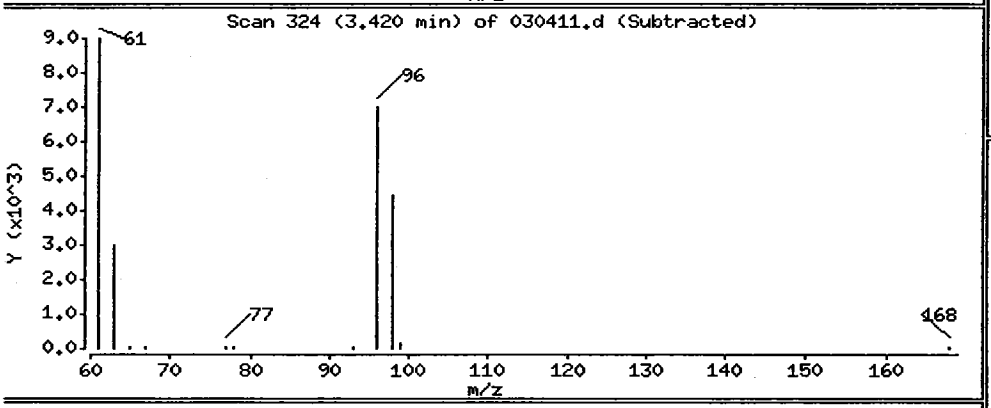
Column diameter: 0.18

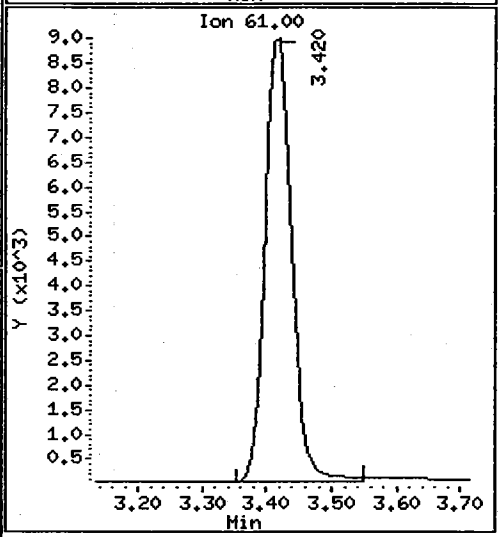
3 Trans-1,2-Dichloroethene

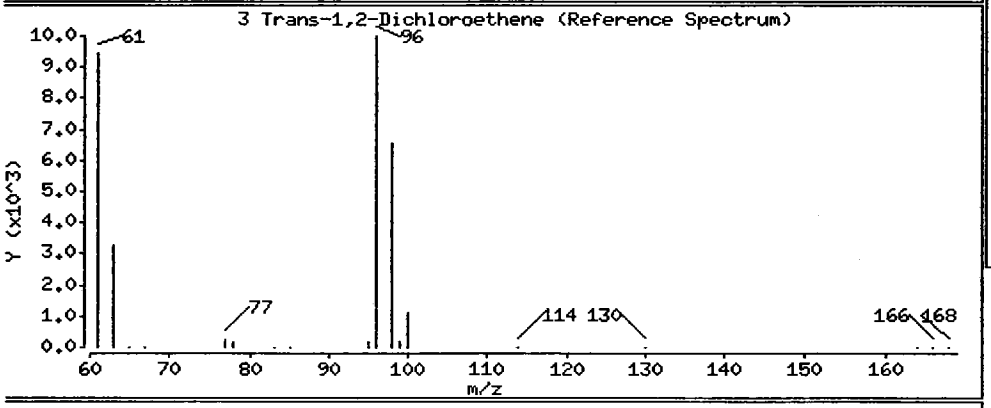
Concentration: 835.99 ug/L

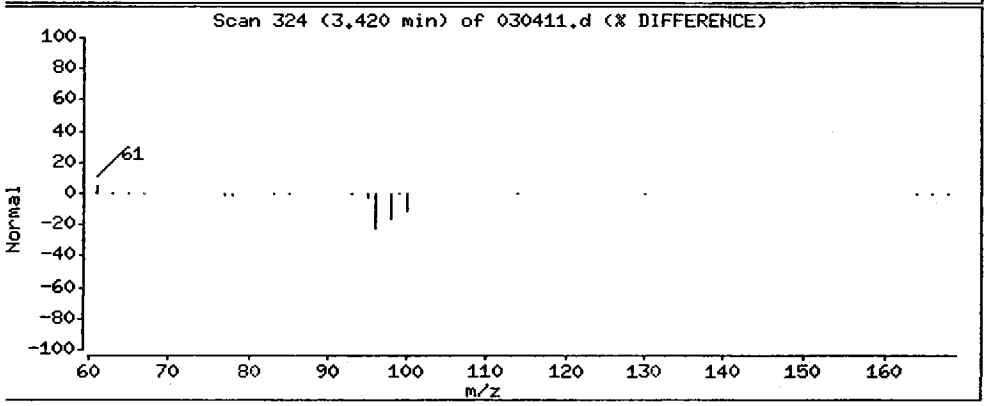












Data File: /chem1/nt10.i/04MAR10.b/030411.d

Date : 04-MAR-2010 17:28

Client ID:

Instrument: nt10.i

Sample Info: ICV0304,10,10,0

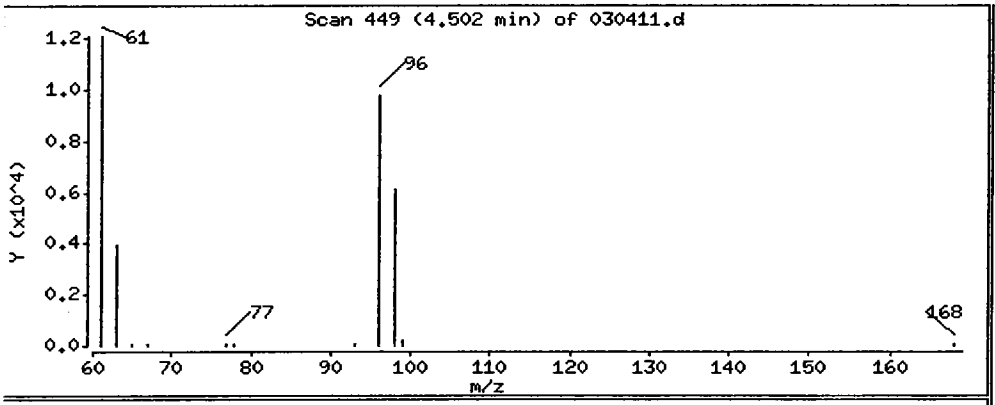
Operator: JZ

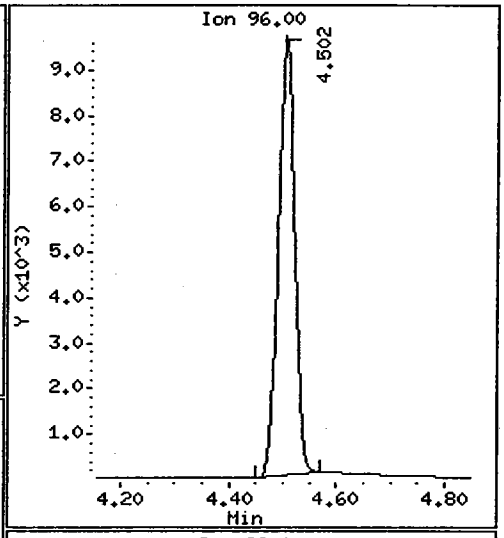
Column phase: RTX502.2

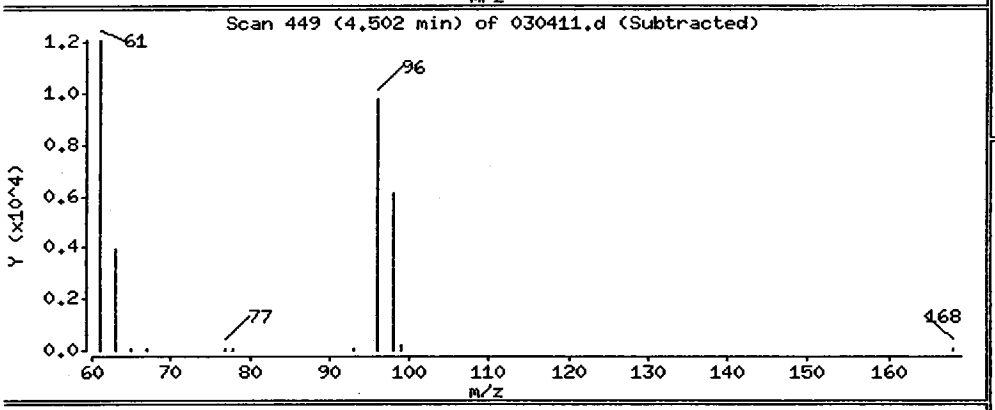
Column diameter: 0.18

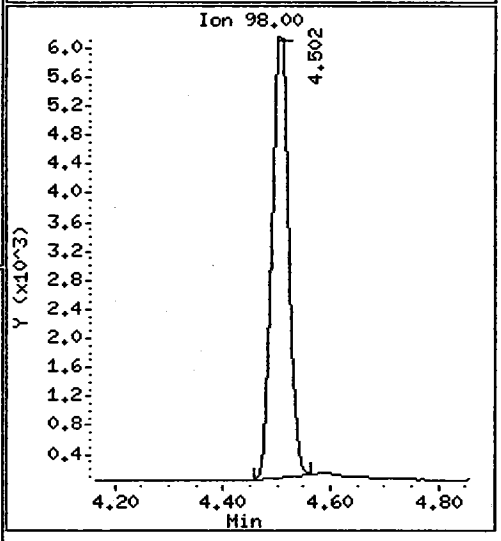
4 cis-1,2-dichloroethene

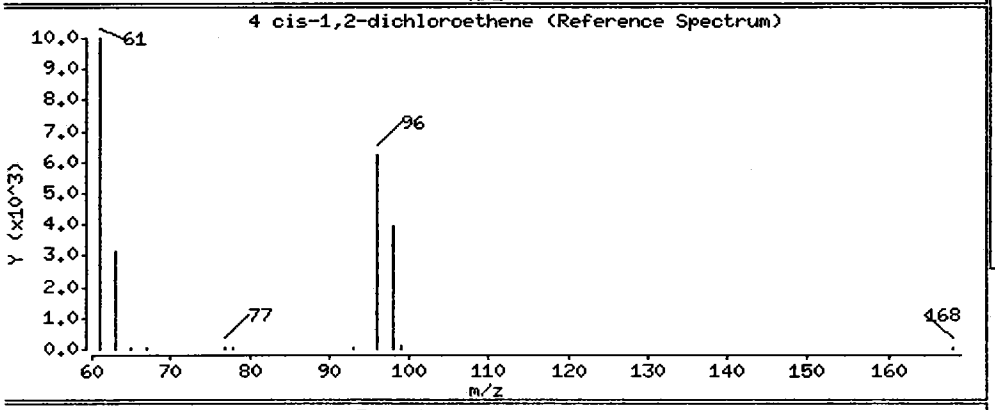
Concentration: 995.57 ug/L

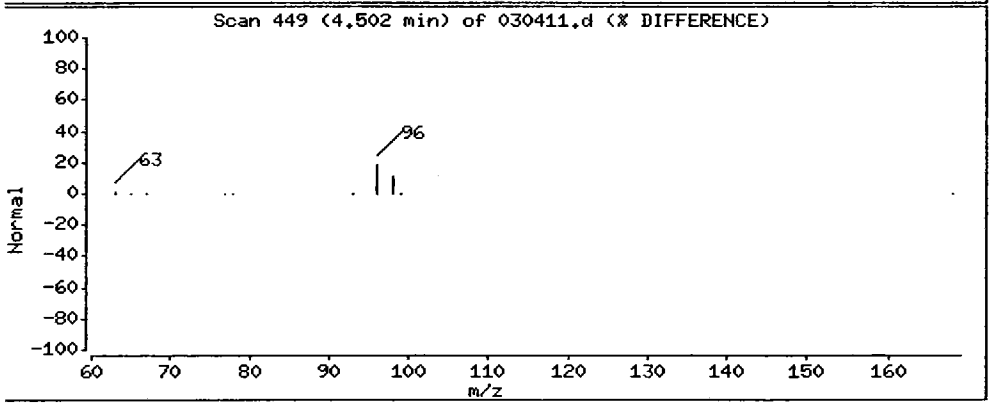












Data File: /chem1/nt10.i/04MAR10.b/030411.d

Date : 04-MAR-2010 17:28

Client ID:

Instrument: nt10.i

Sample Info: ICV0304,10,10,0

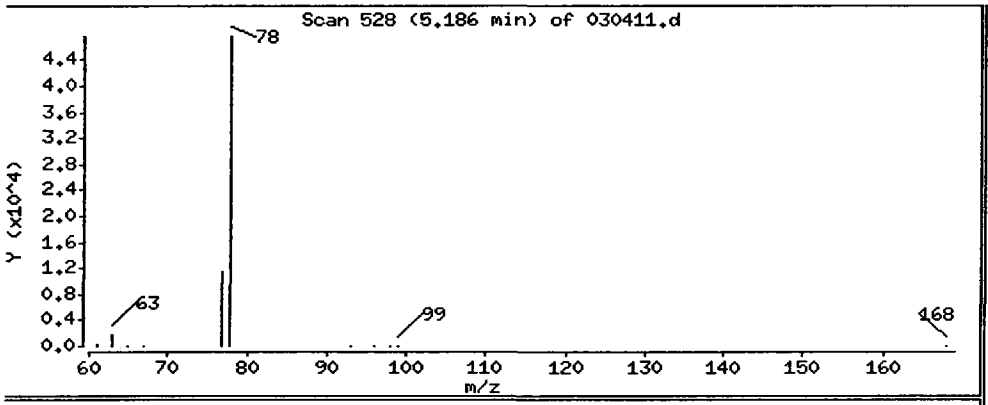
Operator: JZ

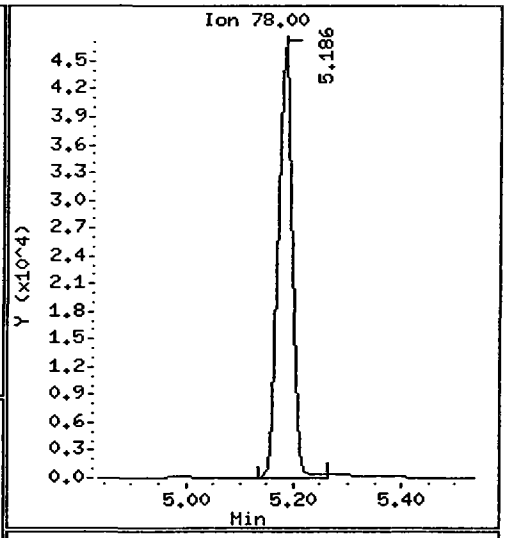
Column phase: RTX502.2

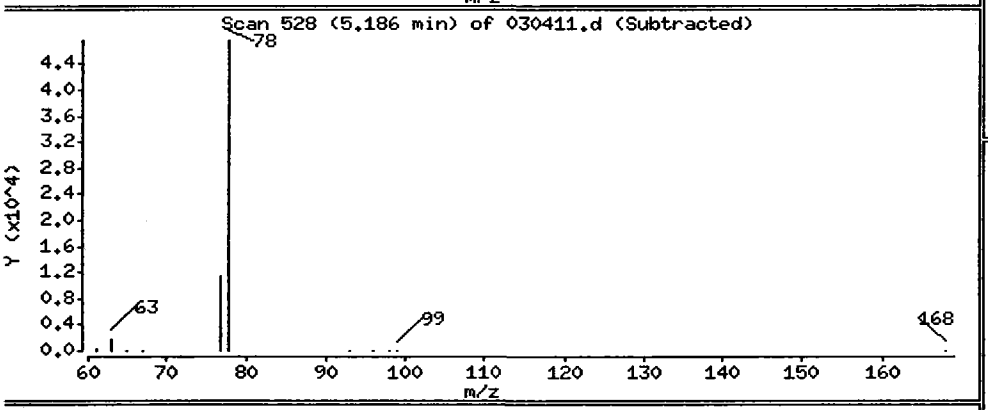
Column diameter: 0.18

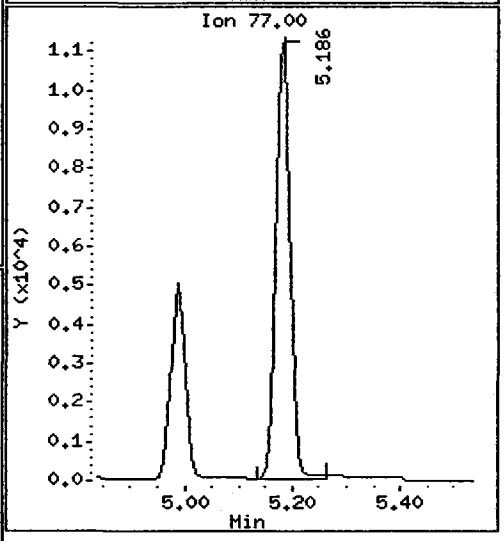
5 Benzene

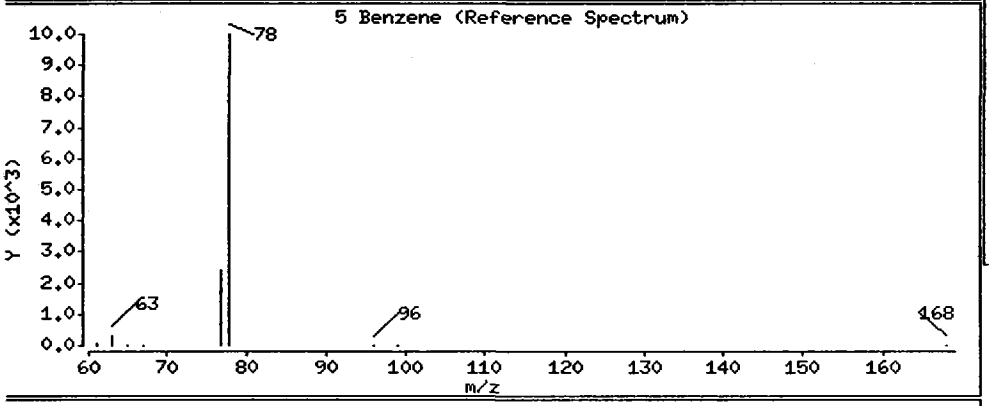
Concentration: 987.95 ug/L

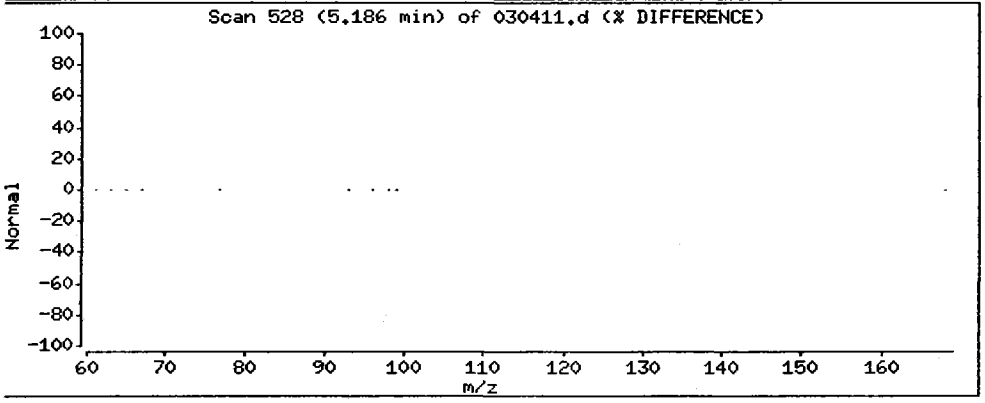












Data File: /chem1/nt10.i/04MAR10.b/030411.d

Date : 04-MAR-2010 17:28

Client ID:

Instrument: nt10.i

Sample Info: ICV0304,10,10,0

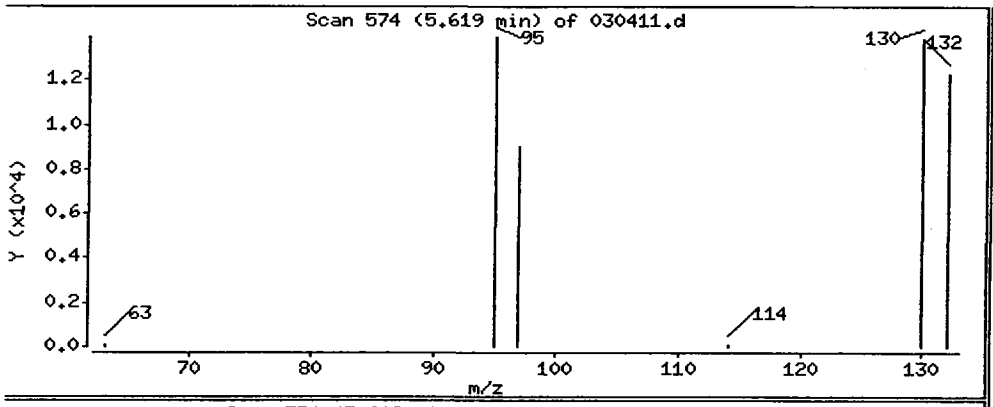
Operator: JZ

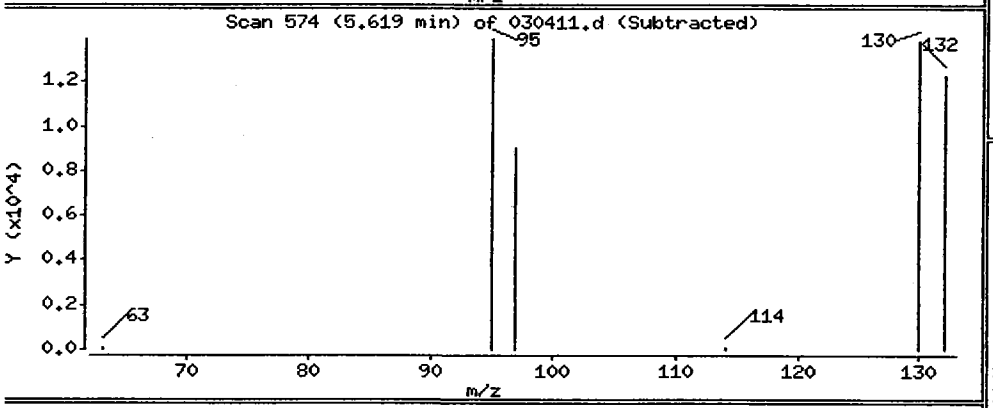
Column phase: RTX502.2

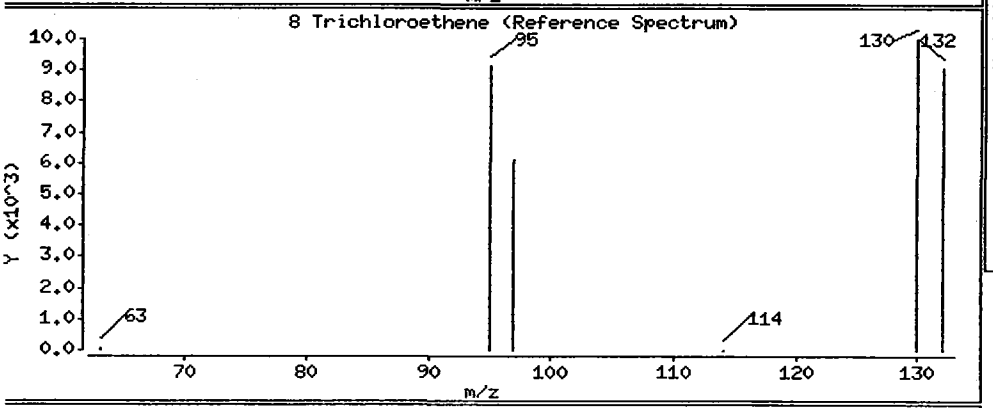
Column diameter: 0.18

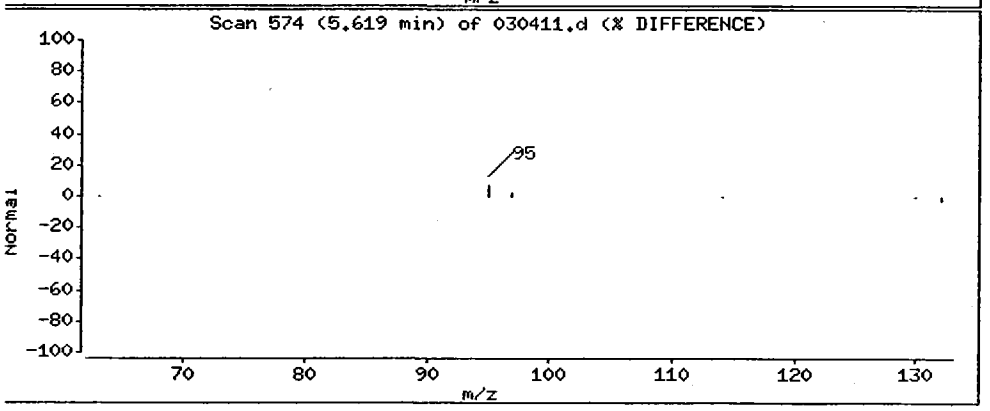
8 Trichloroethene

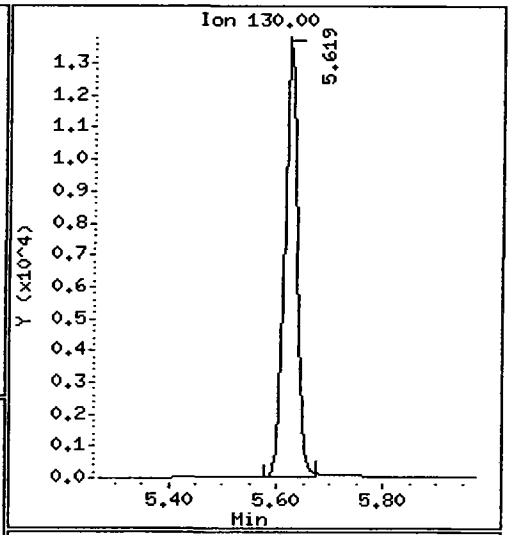
Concentration: 1013.4 ug/L

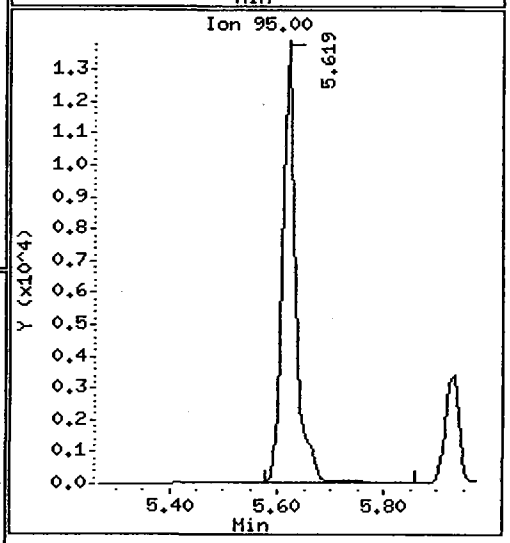












Data File: /chem1/nt10.i/04MAR10.b/030411.d

Date : 04-MAR-2010 17:28

Client ID:

Instrument: nt10.i

Sample Info: ICV0304,10,10,0

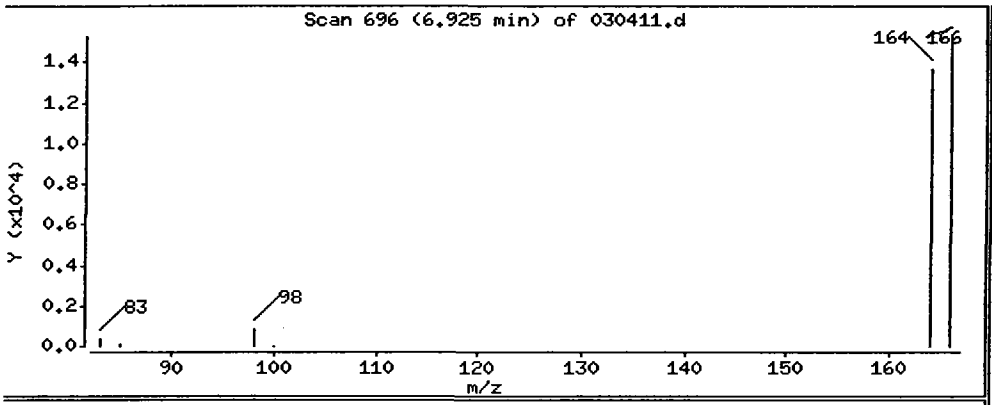
Operator: JZ

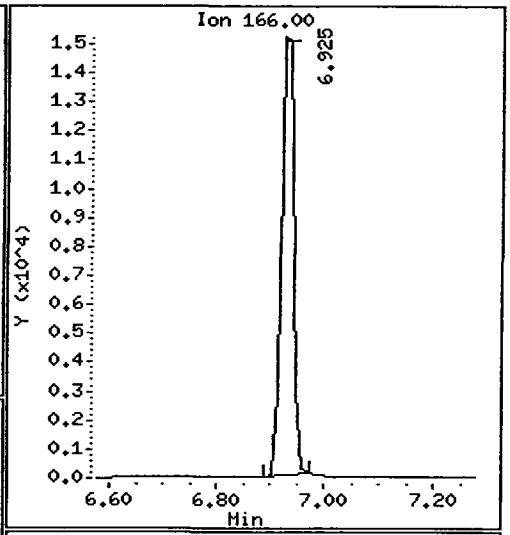
Column phase: RTX502.2

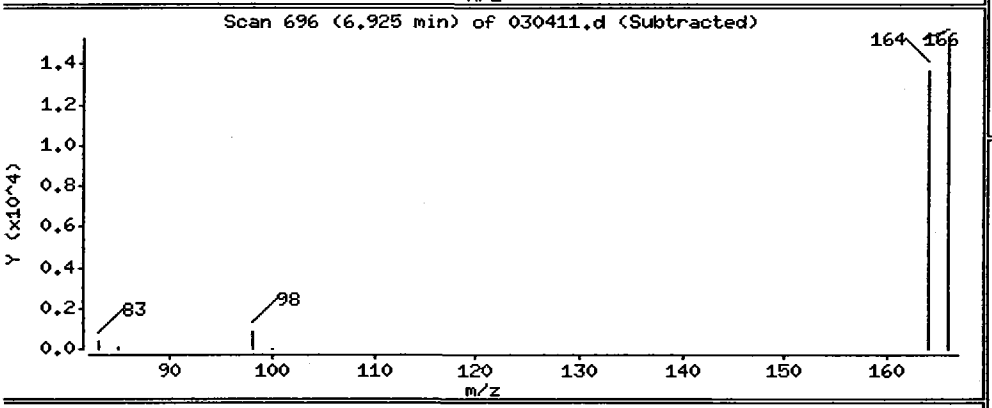
Column diameter: 0.18

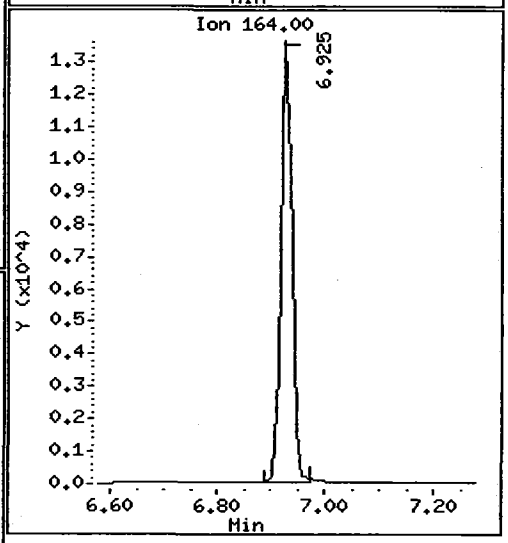
11 Tetrachloroethene

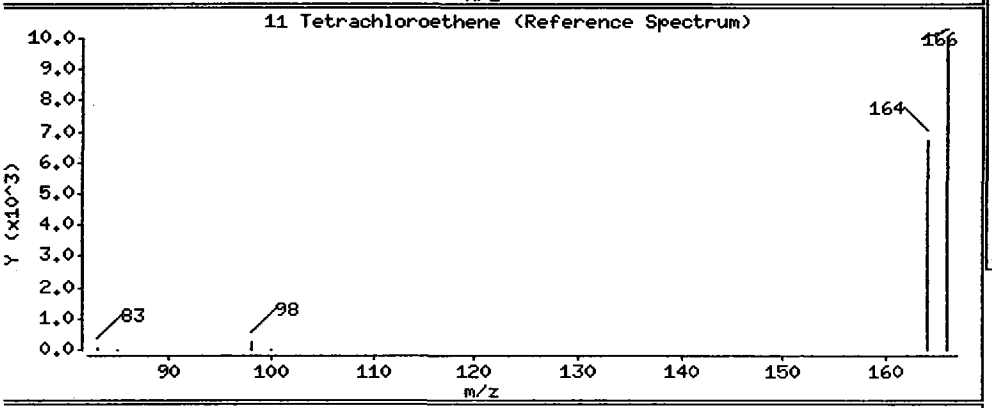
Concentration: 1019.8 ug/L

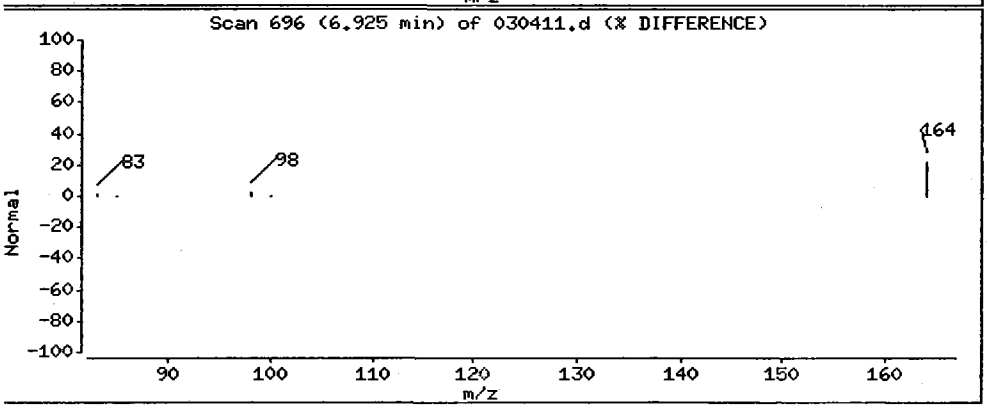












Data File: /chem1/nt10.i/04MAR10.b/030411.d

Date : 04-MAR-2010 17:28

Client ID:

Instrument: nt10.i

Sample Info: ICV0304,10,10,0

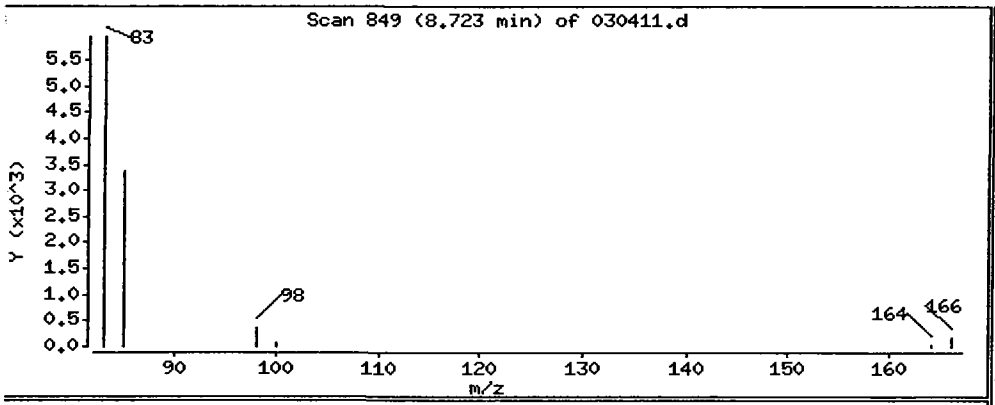
Operator: JZ

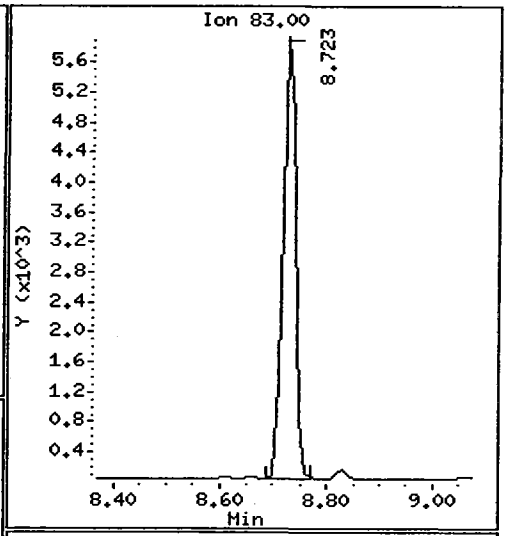
Column phase: RTX502.2

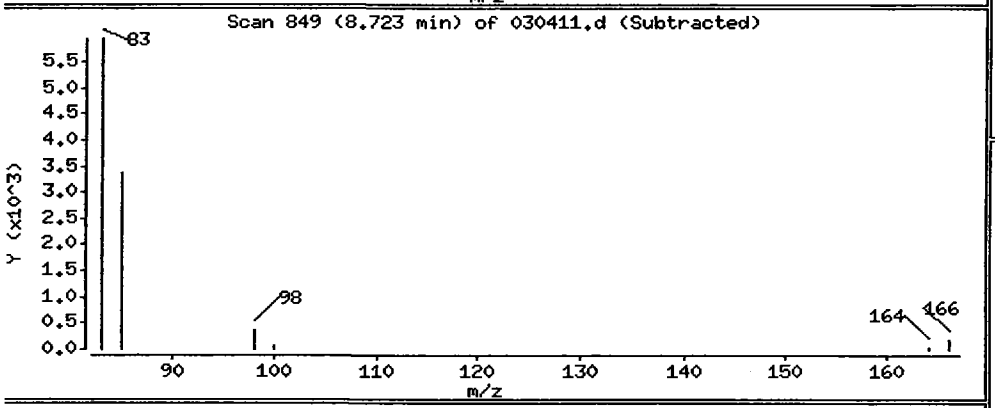
Column diameter: 0.18

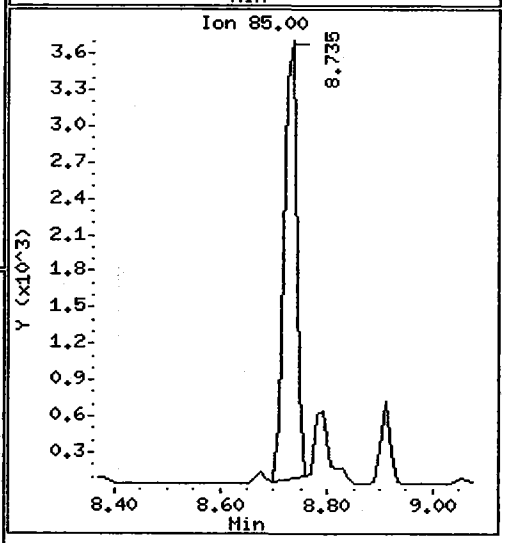
12 1,1,2,2-Tetrachloroethane

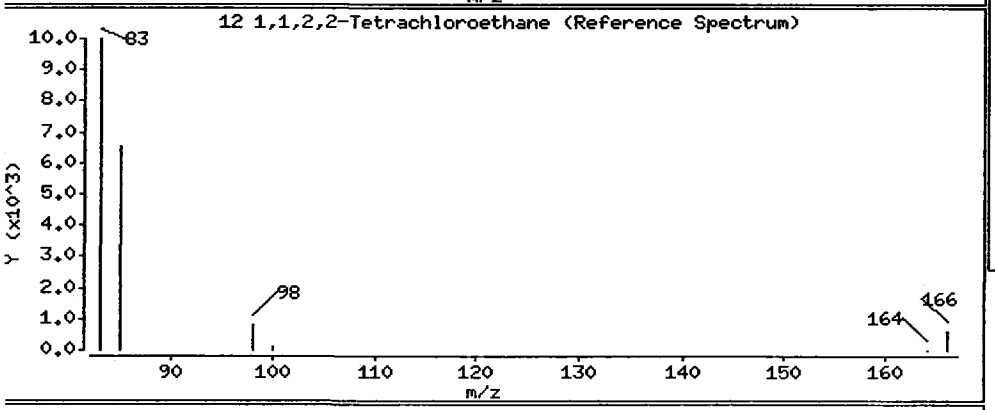
Concentration: 827.27 ug/L

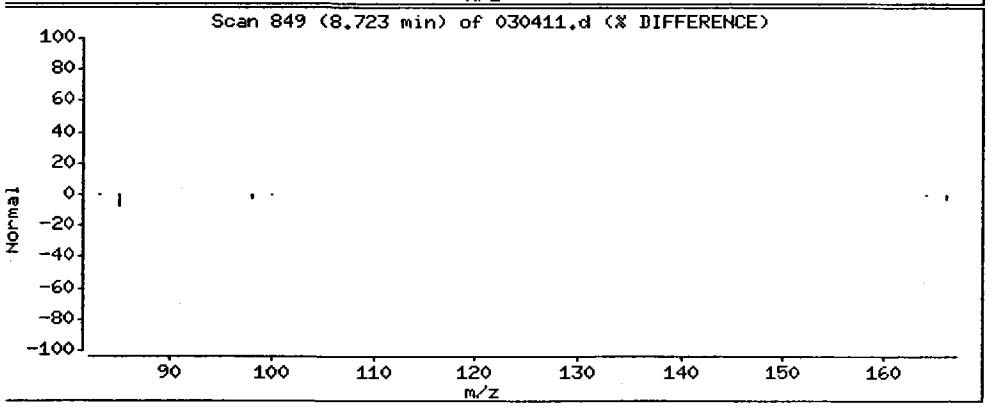












VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD-SNIDER

ARI Job No: QL85 Project: POS-LLA

Instrument ID: NT10 Cont. Calib. Date: 03/08/10

Init. Calib. Date: 03/04/10 Cont. Calib. Time: 0654

COMPOUND	CalAmt or ARF	CC Amt 1000	MIN RRF	CURVE TYPE	%D or Drift	
Vinyl Chloride	1000.0	1126.7	0.010	LINR	12.7	
1,1-Dichloroethene	0.519	0.480	0.010	AVRG	-7.5	
Trans-1,2-Dichloroethene	0.524	0.478	0.010	AVRG	-8.8	
cis-1,2-dichloroethene	1000.0	1069.9	0.010	LINR	7.0	
Benzene	1000.0	1067.3	0.010	LINR	6.7	
Trichloroethene	1000.0	1116.1	0.010	LINR	11.6	
Tetrachloroethene	1000.0	1130.8	0.010	LINR	13.1	
1,1,2,2-Tetrachloroethane	0.168	0.160	0.300	AVRG	-4.8	*
d4-1,2-Dichloroethane	0.320	0.300	0.010	AVRG	-6.2	
d8-Toluene	1.115	1.116	0.010	AVRG	0.1	

<- Exceeds QC limit of 20% D
* RF less than minimum RF

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt10.i
Lab File ID: 03080303.d
Analysis Type: WATER
Lab Sample ID: CC0308
Method: /chem1/nt10.i/08MAR10.b/SIM030410.m

Injection Date: 08-MAR-2010 06:54
Init. Cal. Date(s): 04-MAR-2010 04-MAR-2010
Init. Cal. Times: 13:56 16:58
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF1000	CCAL RRF1000	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
1 Vinyl Chloride	1127	1000	0.45152	0.100	12.66853	20.00000	Linear
2 1,1-Dichloroethene	0.51870	0.48004	0.48004	0.100	-7.45290	20.00000	Averaged
3 Trans-1,2-Dichloroethene	0.52457	0.47799	0.47799	0.010	-8.87912	20.00000	Averaged
4 cis-1,2-dichloroethene	1070	1000	0.48804	0.100	6.98860	20.00000	Linear
5 Benzene	1067	1000	2.09282	0.100	6.73459	20.00000	Linear
$ 7 d4-1,2-Dichloroethane	0.31999	0.29992	0.29992	0.100	-6.27161	20.00000	Averaged
8 Trichloroethene	1116	1000	0.40254	0.100	11.61083	20.00000	Linear
$ 10 d8-Toluene	1.11456	1.11649	1.11649	0.100	0.17360	20.00000	Averaged
11 Tetrachloroethene	1131	1000	0.43076	0.100	13.07665	20.00000	Linear
12 1,1,2,2-Tetrachloroethane	0.16791	0.15957	0.15957	0.100	-4.96681	20.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 7.88232
Maximun Average %D/Drift = 20.00000
* Passed Average %D/Drift Test.

Analytical Resources, Inc.

Data file : /chem1/nt10.i/08MAR10.b/03080303.d
Lab Smp Id: CC0308
Inj Date : 08-MAR-2010 06:54
Operator : JZ Inst ID: nt10.i
Smp Info : CC0308,10,10,0,
Misc Info : 09-
Comment :
Method : /chem1/nt10.i/08MAR10.b/SIM030410.m
Meth Date : 10-Mar-2010 07:50 monicah Quant Type: ISTD
Cal Date : 04-MAR-2010 16:58 Cal File: 030410.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sim.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 10-Mar-2010 07:5 * CpndVariable

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/L)	ON-COL (ng/L)
	1 Vinyl Chloride	62	1.602	1.602	(0.304)	18998	1000.00	1126.7
	2 1,1-Dichloroethene	96	2.607	2.607	(0.494)	20198	1000.00	925.47
	3 Trans-1,2-Dichloroethene	96	3.412	3.412	(0.647)	20111	1000.00	911.21
	4 cis-1,2-dichloroethene	96	4.502	4.502	(0.854)	20534	1000.00	1069.9
	5 Benzene	78	5.177	5.177	(0.982)	88057	1000.00	1067.3
*	6 Pentafluorobenzene	168	5.272	5.272	(1.000)	42076	1000.00	
$	7 d4-1,2-Dichloroethane	65	5.289	5.289	(1.003)	12619	1000.00	937.28
	8 Trichloroethene	130	5.619	5.619	(0.993)	23867	1000.00	1116.1
*	9 1,4-Difluorobenzene	114	5.660	5.660	(1.000)	59291	1000.00	
$	10 d8-Toluene	98	6.632	6.632	(1.172)	66198	1000.00	1001.7
	11 Tetrachloroethene	166	6.925	6.925	(1.223)	25540	1000.00	1130.8
	12 1,1,2,2-Tetrachloroethane	83	8.723	8.723	(1.541)	9461	1000.00	950.33

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: 03080303.d
Lab Smp Id: CC0308
Analysis Type: VOA
Quant Type: ISTD
Operator: JZ
Method File: /chem1/nt10.i/08MAR10.b/SIM030410.m
Misc Info: 09-

Calibration Date: 08-MAR-2010
Calibration Time: 06:54

Level: 06
Sample Type: WATER

Test Mode:
Use Initial Calibration Level 5.

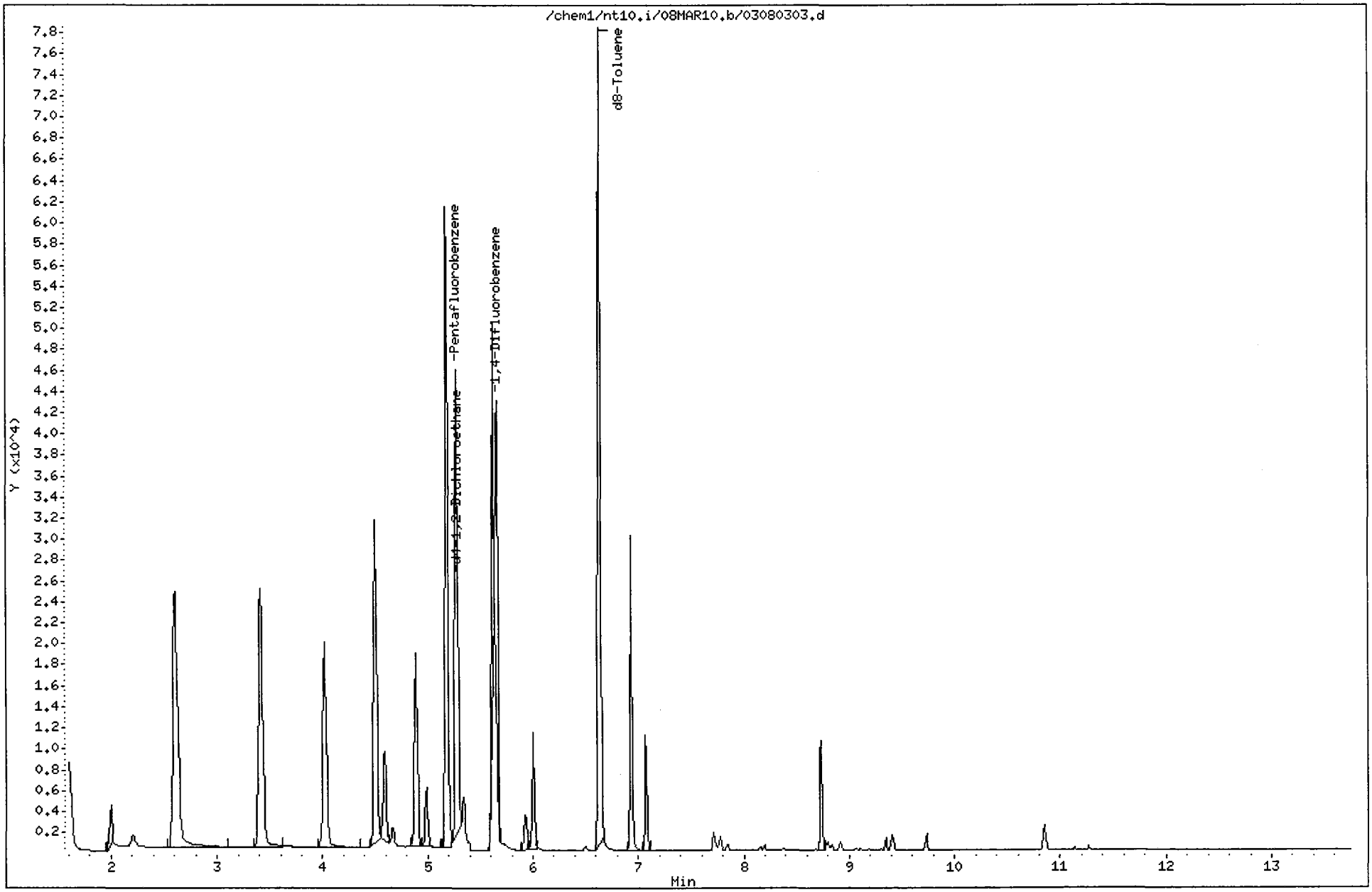
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
6 Pentafluorobenzen	45054	22527	90108	42076	-6.61
9 1,4-Difluorobenze	66146	33073	132292	59291	-10.36

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
6 Pentafluorobenzen	5.27	4.77	5.77	5.27	0.00
9 1,4-Difluorobenze	5.66	5.16	6.16	5.66	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem1/nt10.i/08MAR10.b/03080303.d
Date : 08-MAR-2010 06:54
Client ID:
Sample Info: CC0308,10,10,0,

Instrument: nt10.i
Operator: JZ
Column phase: RTX502.2
Column diameter: 0.18



SIM Volatile Analysis
QC Raw Data

prepared
for

Floyd-Snider

Project: Lora Lakes Apartments, POS-LLA

ARI JOB NO: QL85

prepared
by

Analytical Resources, Inc.

Data File: /chem1/nt10.i/04MAR10.b/bfb030403.d

Date : 04-MAR-2010 13:20

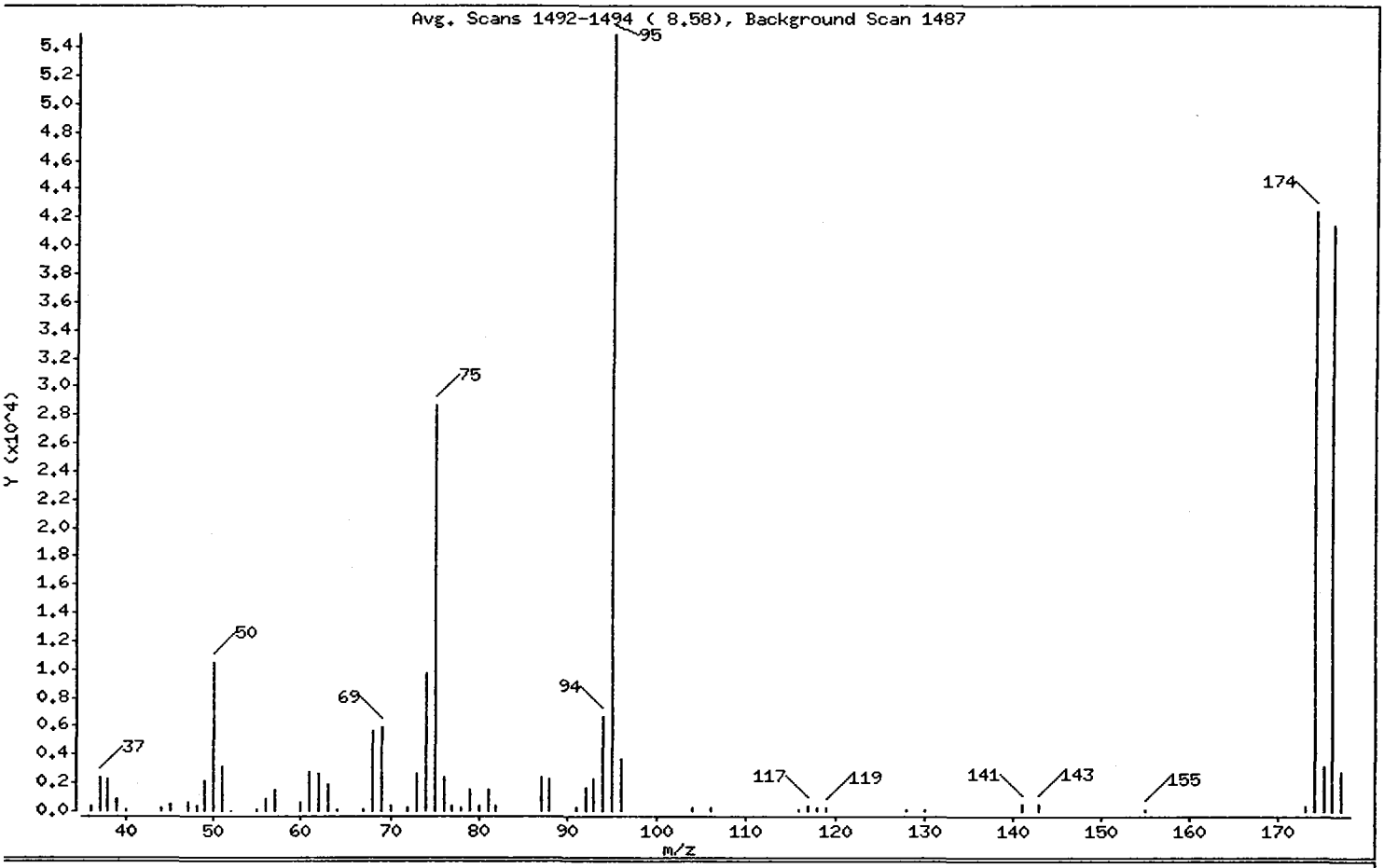
Client ID: BFB0304 Instrument: nt10.i

Sample Info: BFB0304,BFB0304,,1,04MAR10,,

Operator: ar

Column phase: RTX502.2 Column diameter: 0.18

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	19.13
75	30.00 - 66.00% of mass 95	52.16
96	5.00 - 9.00% of mass 95	6.62
173	Less than 2.00% of mass 174	0.64 (0.83)
174	50.00 - 101.00% of mass 95	77.22
175	4.00 - 9.00% of mass 174	5.74 (7.44)
176	93.00 - 101.00% of mass 174	75.35 (97.59)
177	5.00 - 9.00% of mass 176	5.03 (6.68)

Data File: /chem1/nt10.i/04MAR10.b/bfb030403.d

Date : 04-MAR-2010 13:20

Client ID: BFB0304 Instrument: nt10.i

Sample Info: BFB0304,BFB0304,,1,04MAR10,,

Operator: ar

Column phase: RTX502.2 Column diameter: 0.18

Data File: bfb030403.d

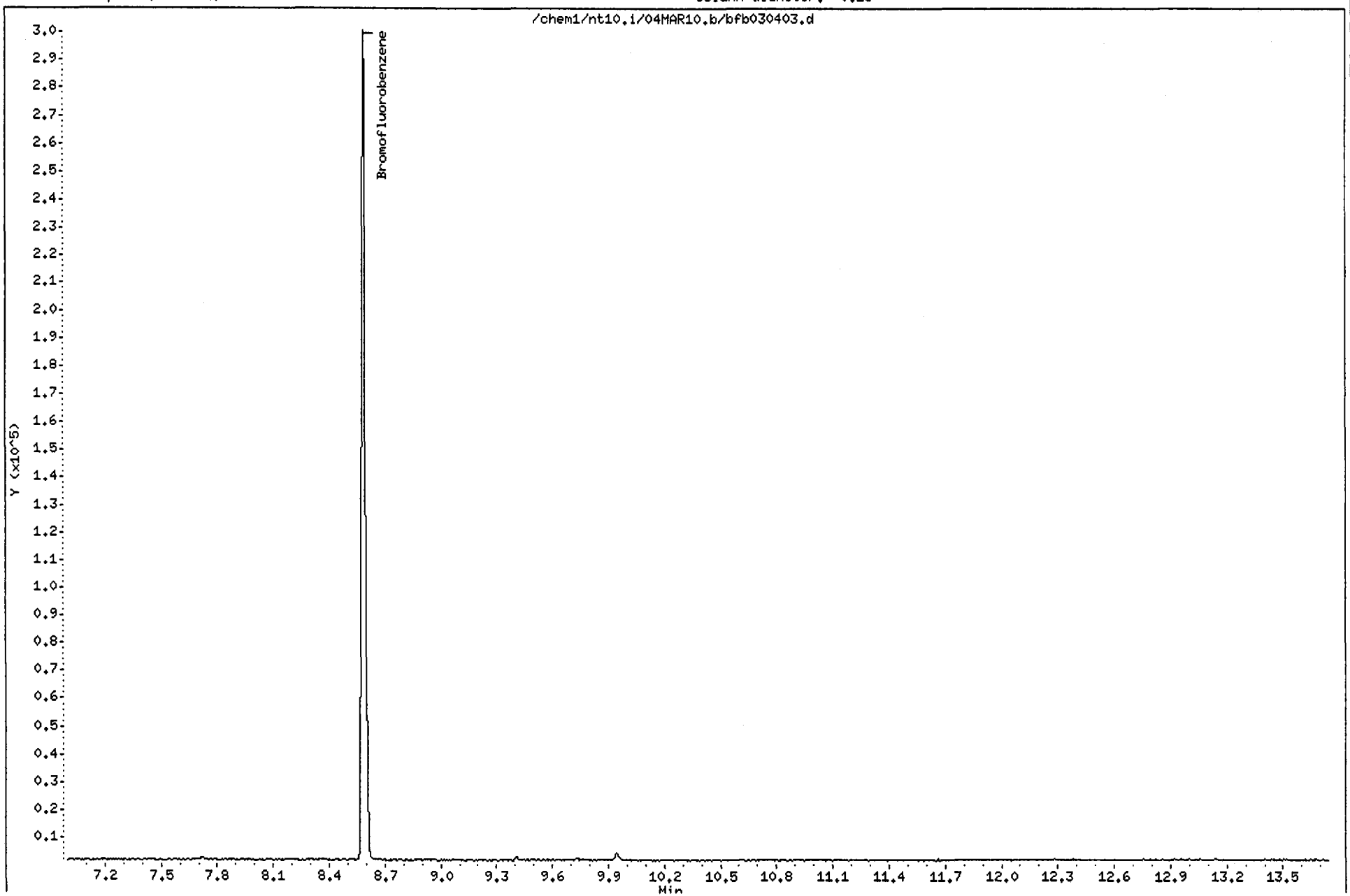
Spectrum: Avg. Scans 1492-1494 (8.58), Background Scan 1487

Location of Maximum: 95.00

Number of points: 60

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	422	60.00	575	79.00	1489	118.00	192
37.00	2435	61.00	2762	80.00	438	119.00	245
38.00	2236	62.00	2688	81.00	1549	128.00	186
39.00	931	63.00	1870	82.00	332	130.00	147
40.00	118	64.00	149	87.00	2420	141.00	527
44.00	274	67.00	124	88.00	2305	143.00	486
45.00	480	68.00	5675	91.00	226	155.00	101
47.00	618	69.00	5880	92.00	1607	173.00	352
48.00	334	70.00	410	93.00	2273	174.00	42408
49.00	2180	72.00	314	94.00	6655	175.00	3155
50.00	10506	73.00	2629	95.00	54920	176.00	41384
51.00	3217	74.00	9731	96.00	3635	177.00	2765
52.00	58	75.00	28648	104.00	246		
55.00	128	76.00	2397	106.00	251		
56.00	838	77.00	361	116.00	141		
57.00	1532	78.00	225	117.00	324		

Data File: /chem1/nt10.i/04MAR10.b/bfb030403.d
Date : 04-MAR-2010 13:20
Client ID: BFB0304
Instrument: nt10.i
Sample Info: BFB0304,BFB0304,,1,04MAR10,,
Operator: ar
Column phase: RTX502.2
Column diameter: 0.18



Data File: /chem1/nt10.i/08MAR10.b/03080302.d

Date : 08-MAR-2010 06:21

Client ID: BFB0308

Instrument: nt10.i

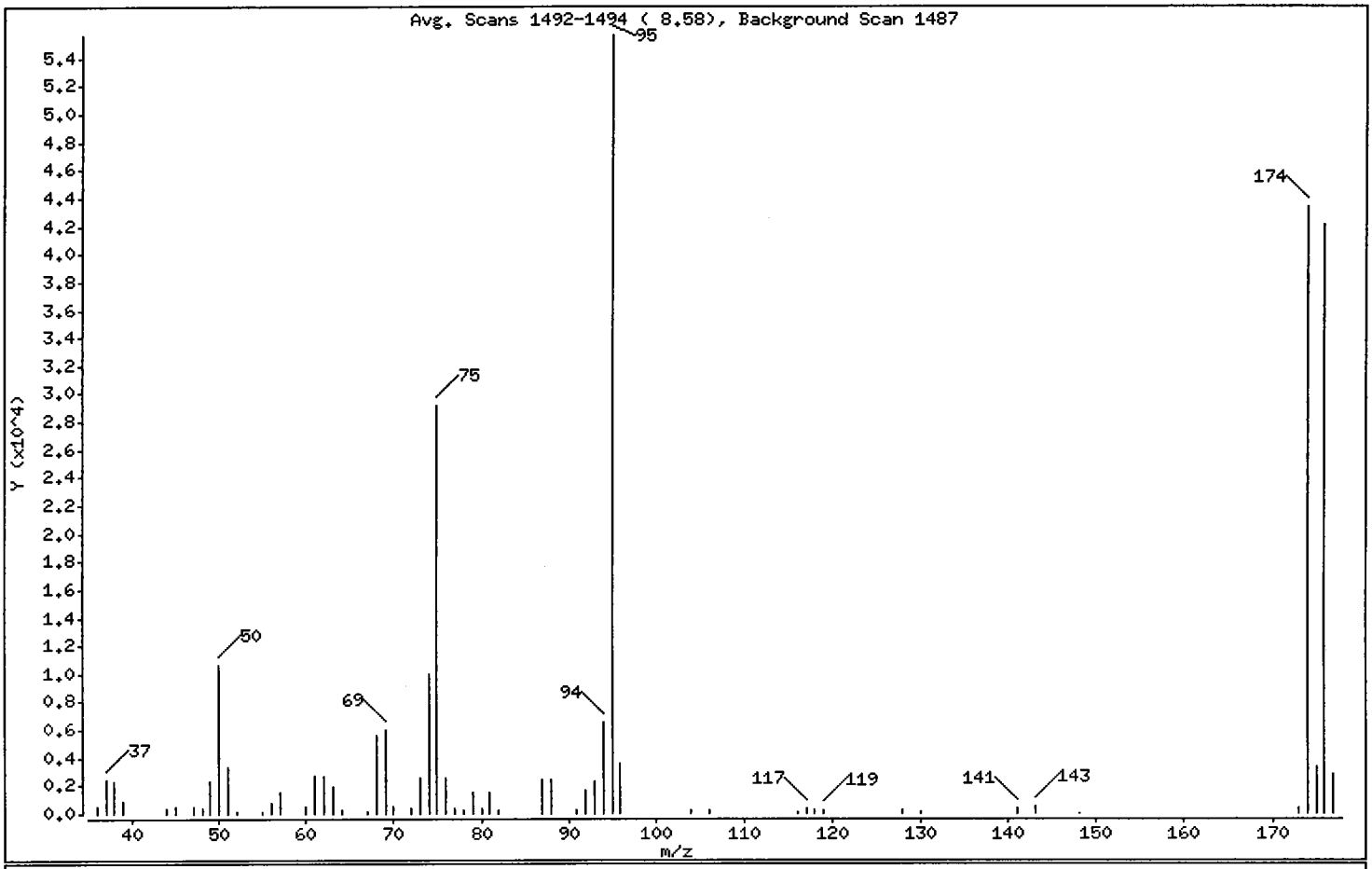
Sample Info: BFB0308,BFB0308,,1,08MAR10,,

Operator: ar

Column phase: RTX502.2

Column diameter: 0.18

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	19.19
75	30.00 - 66.00% of mass 95	52.37
96	5.00 - 9.00% of mass 95	6.37
173	Less than 2.00% of mass 174	0.69 (0.88)
174	50.00 - 101.00% of mass 95	78.04
175	4.00 - 9.00% of mass 174	6.00 (7.69)
176	93.00 - 101.00% of mass 174	75.74 (97.05)
177	5.00 - 9.00% of mass 176	5.01 (6.61)

Data File: /chem1/nt10.i/08MAR10.b/03080302.d

Date : 08-MAR-2010 06:21

Client ID: BFB0308 Instrument: nt10.i

Sample Info: BFB0308,BFB0308,,1,08MAR10,,

Operator: ar

Column phase: RTX502.2 Column diameter: 0.18

Data File: 03080302.d

Spectrum: Avg. Scans 1492-1494 (8.58), Background Scan 1487

Location of Maximum: 95.00

Number of points: 59

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	471	60.00	506	78.00	222	116.00	137
37.00	2492	61.00	2698	79.00	1566	117.00	330
38.00	2259	62.00	2635	80.00	429	118.00	199
39.00	900	63.00	1943	81.00	1560	119.00	266
44.00	359	64.00	212	82.00	302	128.00	208
45.00	462	67.00	172	87.00	2434	130.00	182
47.00	574	68.00	5686	88.00	2448	141.00	420
48.00	341	69.00	5955	91.00	197	143.00	503
49.00	2301	70.00	474	92.00	1667	148.00	50
50.00	10674	72.00	334	93.00	2304	173.00	382
51.00	3305	73.00	2569	94.00	6522	174.00	43416
52.00	181	74.00	10022	95.00	55632	175.00	3338
55.00	119	75.00	29136	96.00	3546	176.00	42136
56.00	815	76.00	2545	104.00	228	177.00	2787
57.00	1520	77.00	356	106.00	209		

MH 3/10/10

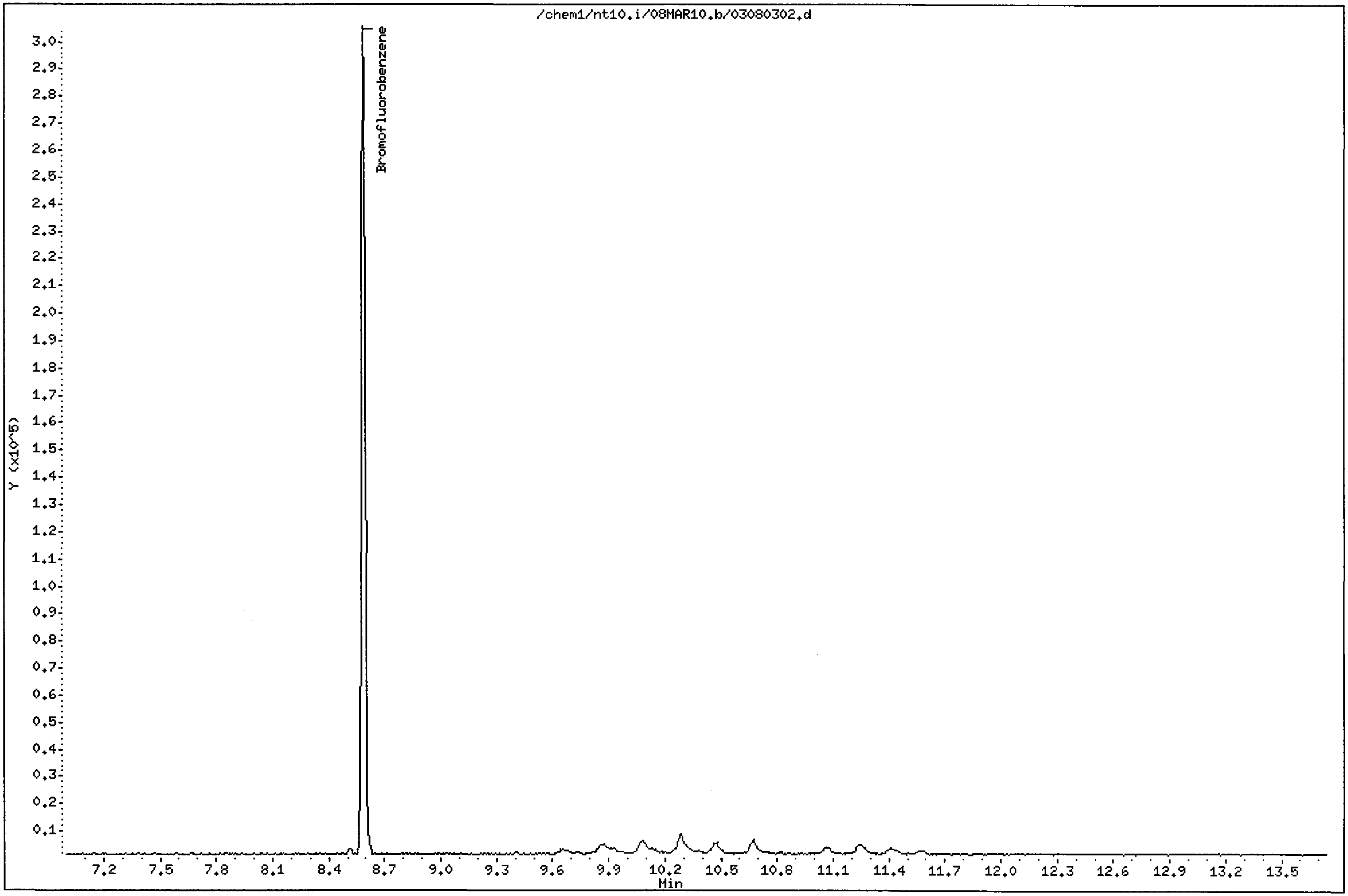
Data File: /chem1/nt10.i/08MAR10.b/03080302.d
Date : 08-MAR-2010 06:21
Client ID: BFB0308
Sample Info: BFB0308,BFB0308,,1,08MAR10,,

Instrument: nt10.i

Operator: ar

Column phase: RTX502.2

Column diameter: 0.18



ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM **Sample ID: MB-030810**
 METHOD BLANK

Lab Sample ID: MB-030810
LIMS ID: 10-4943
Matrix: Water
Data Release Authorized:
Reported: 03/10/10

QC Report No: QL85-Floyd-Snider
Project: Lora Lakes Apartments
POS-LLA
Date Sampled: NA
Date Received: NA

Instrument/Analyst: NT10/MH
Date Analyzed: 03/08/10 08:30

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
156-59-2	cis-1,2-Dichloroethene	0.020	< 0.020	U
156-60-5	trans-1,2-Dichloroethene	0.020	< 0.020	U
79-01-6	Trichloroethene	0.020	< 0.020	U
127-18-4	Tetrachloroethene	0.020	< 0.020	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	100%
d8-Toluene	98.9%

Analytical Resources, Inc.

Data file : /chem1/nt10.i/08MAR10.b/03080306.d
Lab Smp Id: MB0308
Inj Date : 08-MAR-2010 08:30
Operator : MH Inst ID: nt10.i
Smp Info : MB0308,10,10,0,
Misc Info : 09-
Comment :
Method : /chem1/nt10.i/08MAR10.b/SIM030410.m
Meth Date : 10-Mar-2010 07:50 monicah Quant Type: ISTD
Cal Date : 04-MAR-2010 16:58 Cal File: 030410.d
Als bottle: 1 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sim.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 10-Mar-2010 07:5 * CpndVariable

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/L)	FINAL (ug/L)
	1 Vinyl Chloride	62	Compound Not Detected.					
	2 1,1-Dichloroethene	96	Compound Not Detected.					
	3 Trans-1,2-Dichloroethene	96	Compound Not Detected.					
	4 cis-1,2-dichloroethene	96	Compound Not Detected.					
	5 Benzene	78	Compound Not Detected.					
*	6 Pentafluorobenzene	168	5.272	5.272	(1.000)	43876	1000.00	
$	7 d4-1,2-Dichloroethane	65	5.289	5.289	(1.003)	14081	1002.92	1002.9
	8 Trichloroethene	130	Compound Not Detected.					
*	9 1,4-Difluorobenzene	114	5.661	5.660	(1.000)	62055	1000.00	
$	10 d8-Toluene	98	6.632	6.632	(1.172)	68414	989.157	989.16
	11 Tetrachloroethene	166	Compound Not Detected.					
	12 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: 03080306.d
Lab Smp Id: MB0308
Analysis Type: VOA
Quant Type: ISTD
Operator: MH
Method File: /chem1/nt10.i/08MAR10.b/SIM030410.m
Misc Info: 09-

Calibration Date: 08-MAR-2010
Calibration Time: 06:54

Level: 06
Sample Type: WATER

Test Mode:
Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
6 Pentafluorobenzen	45054	22527	90108	43876	-2.61
9 1,4-Difluorobenze	66146	33073	132292	62055	-6.18

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
6 Pentafluorobenzen	5.27	4.77	5.77	5.27	0.00
9 1,4-Difluorobenze	5.66	5.16	6.16	5.66	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Client SDG: 08MAR10
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id: MB0308
Level: RECOVERY REPORT Operator: MH
Data Type: MS DATA SampleType: BLANK
SpikeList File: sim.spk Quant Type: ISTD
Sublist File: sim.sub
Method File: /chem1/nt10.i/08MAR10.b/SIM030410.m
Misc Info: 09-

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 7 d4-1,2-Dichloroeth	1000.0	1002.9	100.29	70-130
$ 10 d8-Toluene	1000.0	989.16	98.92	70-130

Data File: /chem1/nt10.i/08MAR10.b/03080306.d

Date : 08-MAR-2010 08:30

Client ID:

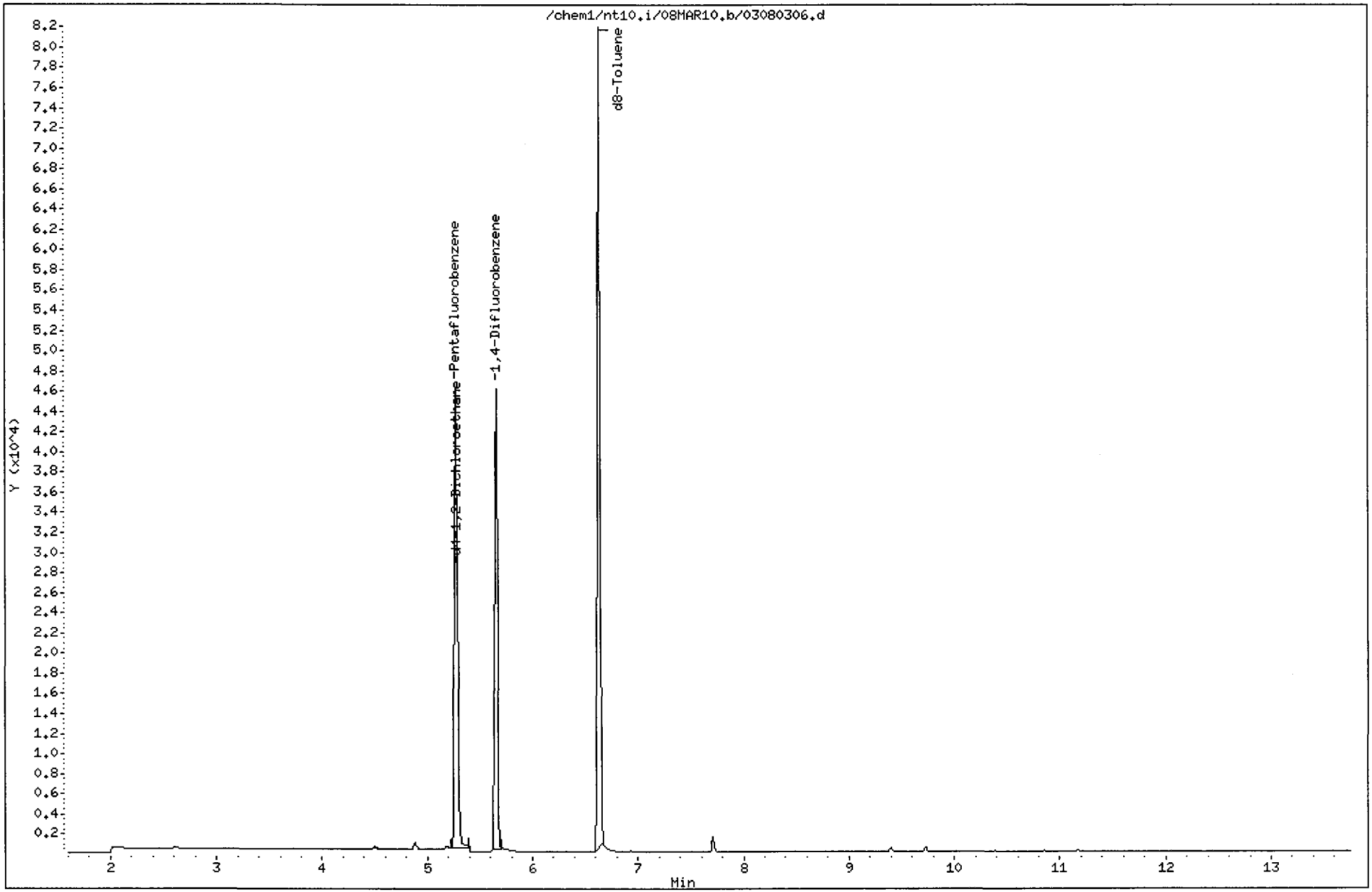
Sample Info: MB0308,10,10,0,

Column phase: RTX502.2

Instrument: nt10.i

Operator: MH

Column diameter: 0.18



ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM **Sample ID: CB31A022610GRAB**
Page 1 of 1 **MATRIX SPIKE**

Lab Sample ID: QL85A
LIMS ID: 10-4943
Matrix: Water
Data Release Authorized:
Reported: 03/10/10

QC Report No: QL85-Floyd-Snider
Project: Lora Lakes Apartments
POS-LLA
Date Sampled: 02/26/10
Date Received: 02/26/10

Instrument/Analyst: NT10/MH
Date Analyzed: 03/08/10 16:53

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
156-59-2	cis-1,2-Dichloroethene	0.020	---	
156-60-5	trans-1,2-Dichloroethene	0.020	---	
79-01-6	Trichloroethene	0.020	---	
127-18-4	Tetrachloroethene	0.020	---	

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	98.7%
d8-Toluene	99.9%

Analytical Resources, Inc.

Data file : /chem1/nt10.i/08MAR10.b/03080326.d
Lab Smp Id: QL85AMS
Client Smp ID: CB31A022610GRAB MS
Inj Date : 08-MAR-2010 16:53
Operator : MH
Inst ID: nt10.i
Smp Info : QL85AMS,10,10,0,
Misc Info : 10-4943
Comment :
Method : /chem1/nt10.i/08MAR10.b/SIM030410.m
Meth Date : 10-Mar-2010 07:50 monicah
Quant Type: ISTD
Cal Date : 04-MAR-2010 16:58
Cal File: 030410.d
Als bottle: 1
QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE
Compound Sublist: sim.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 10-Mar-2010 07:5 * CpndVariable

Cpnd Variable
Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/L)	FINAL (ug/L)
	1 Vinyl Chloride	62	1.602	1.602	(0.304)	17320	1065.70	1065.7
	2 1,1-Dichloroethene	96	2.616	2.607	(0.496)	19869	944.550	944.55
	3 Trans-1,2-Dichloroethene	96	3.421	3.412	(0.649)	19272	905.924	905.92
	4 cis-1,2-dichloroethene	96	4.502	4.502	(0.854)	19379	1047.57	1047.6
	5 Benzene	78	5.177	5.177	(0.982)	80497	1012.32	1012.3
*	6 Pentafluorobenzene	168	5.272	5.272	(1.000)	40554	1000.00	
$	7 d4-1,2-Dichloroethane	65	5.290	5.289	(1.003)	12806	986.825	986.83
	8 Trichloroethene	130	5.619	5.619	(0.993)	22126	1036.55	1036.6
*	9 1,4-Difluorobenzene	114	5.661	5.660	(1.000)	59185	1000.00	
$	10 d8-Toluene	98	6.632	6.632	(1.172)	65876	998.648	998.65
	11 Tetrachloroethene	166	6.925	6.925	(1.223)	24120	1069.79	1069.8
	12 1,1,2,2-Tetrachloroethane	83	8.723	8.723	(1.541)	8927	898.275	898.27

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: 03080326.d
Lab Smp Id: QL85AMS
Analysis Type: VOA
Quant Type: ISTD
Operator: MH
Method File: /chem1/nt10.i/08MAR10.b/SIM030410.m
Misc Info: 10-4943

Calibration Date: 08-MAR-2010
Calibration Time: 06:54
Client Smp ID: CB31A022610GRAB MS
Level: 06
Sample Type: Water

Test Mode:
Use Initial Calibration Level 5.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
6 Pentafluorobenzen	45054	22527	90108	40554	-9.99
9 1,4-Difluorobenze	66146	33073	132292	59185	-10.52

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
6 Pentafluorobenzen	5.27	4.77	5.77	5.27	0.00
9 1,4-Difluorobenze	5.66	5.16	6.16	5.66	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Floyd-Snider
Sample Matrix: LIQUID
Lab Smp Id: QL85AMS
Level:
Data Type: MS DATA
SpikeList File: sim.spk
Sublist File: sim.sub
Method File: /chem1/nt10.i/08MAR10.b/SIM030410.m
Misc Info: 10-4943

Client SDG: QL85
Fraction: VOA
Client Smp ID: CB31A022610GRAB MS
RECOVERY REPORT Operator: MH
SampleType: MS
Quant Type: ISTD

	SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1	Vinyl Chloride	1000.0	1065.7	106.57	76-120
3	Trans-1,2-Dichloro	1000.0	905.92	90.59	70-130
2	1,1-Dichloroethene	1000.0	944.55	94.46	79-126
4	cis-1,2-dichloroet	1000.0	1047.6	104.76	76-127
5	Benzene	1000.0	1012.3	101.23	75-121
8	Trichloroethene	1000.0	1036.6	103.66	79-120
11	Tetrachloroethene	1000.0	1069.8	106.98	75-123
12	1,1,2,2-Tetrachlor	1000.0	898.27	89.83	72-129

	SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 7	d4-1,2-Dichloroeth	1000.0	986.83	98.68	70-130
$ 10	d8-Toluene	1000.0	998.65	99.86	70-130

Data File: /chem1/nt10.i/08MAR10.b/03080326.d

Date : 08-MAR-2010 16:53

Client ID: CB31A022610GRAB MS

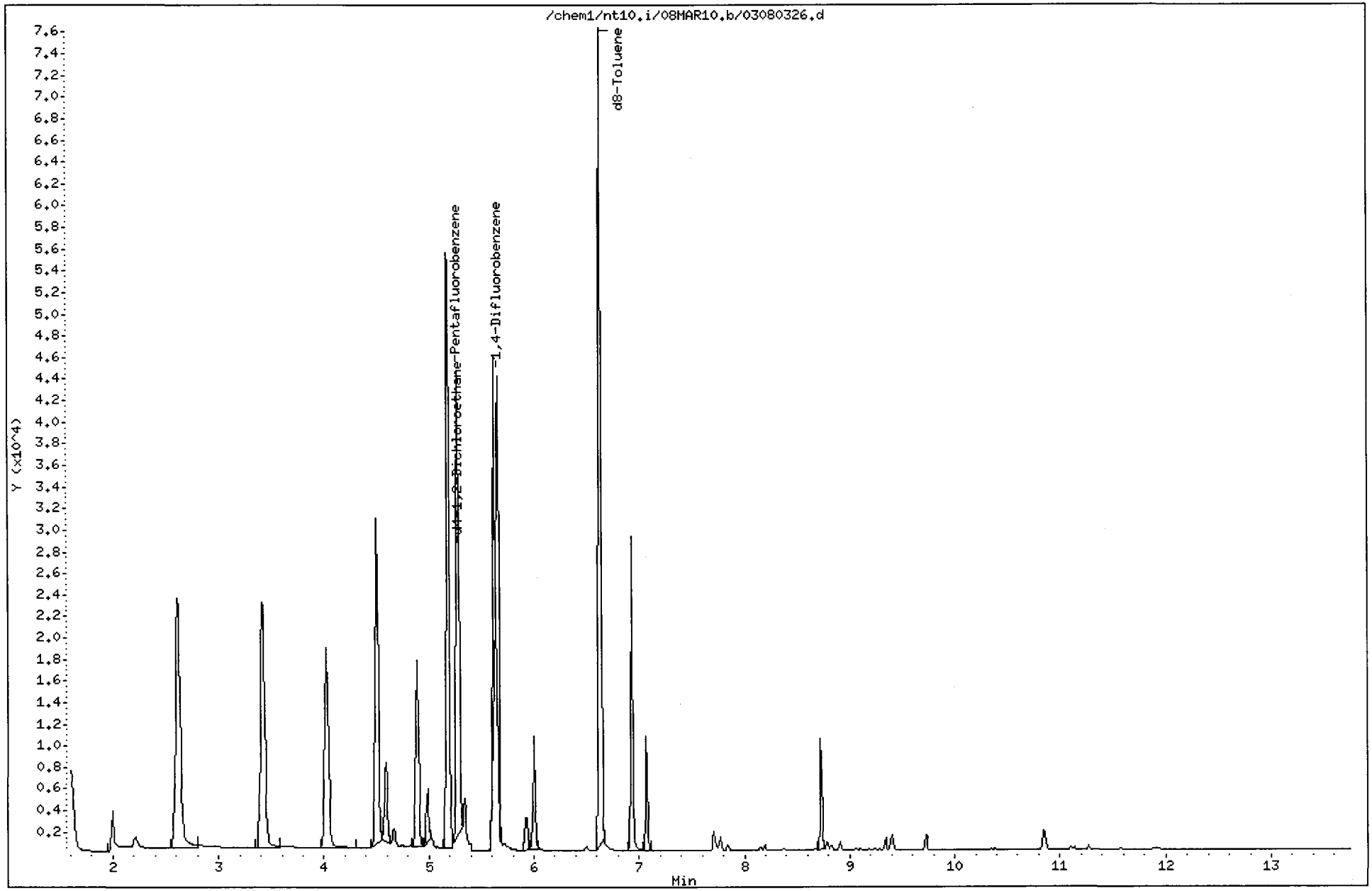
Sample Info: QL85AMS,10,10,0,

Column phase: RTX502.2

Instrument: nt10.i

Operator: MH

Column diameter: 0.18



Data File: /chem1/nt10.i/08MAR10.b/03080326.d

Date : 08-MAR-2010 16:53

Client ID: CB31A022610GRAB MS

Instrument: nt10.i

Sample Info: QL85AMS,10,10,0,

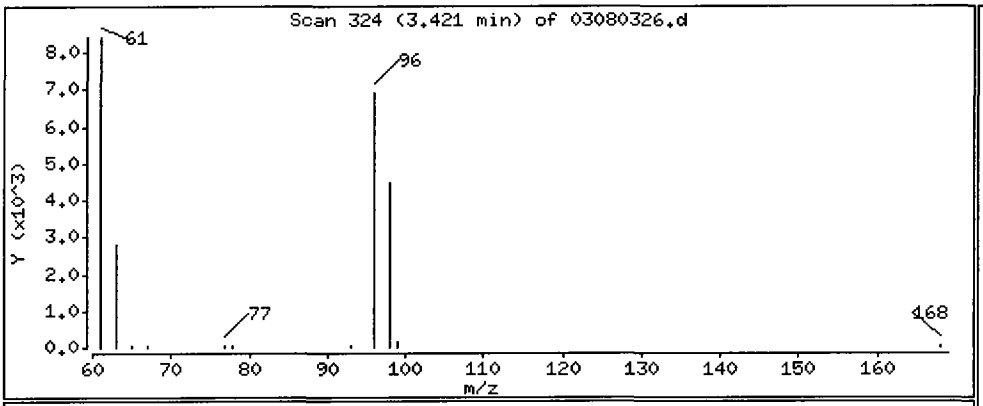
Operator: MH

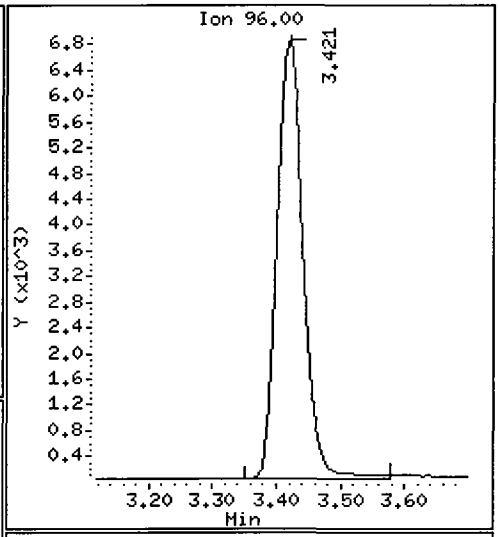
Column phase: RTX502.2

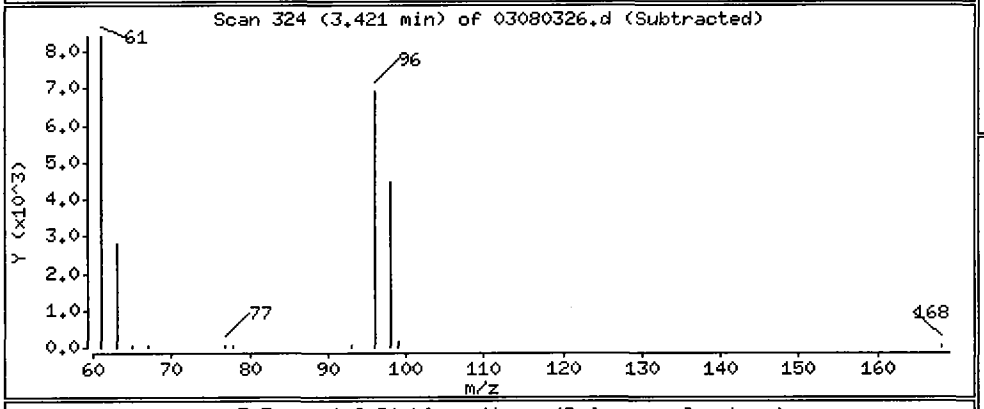
Column diameter: 0.18

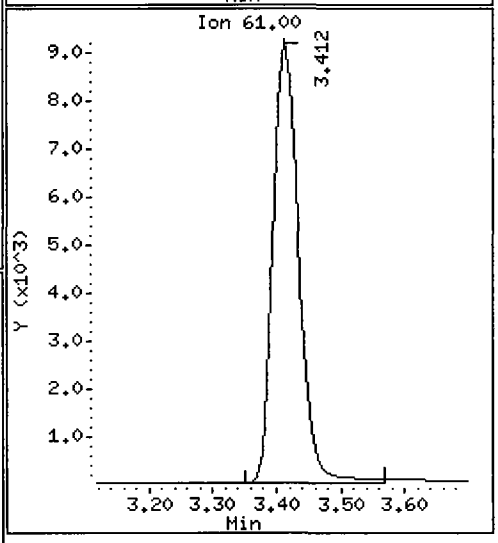
3 Trans-1,2-Dichloroethene

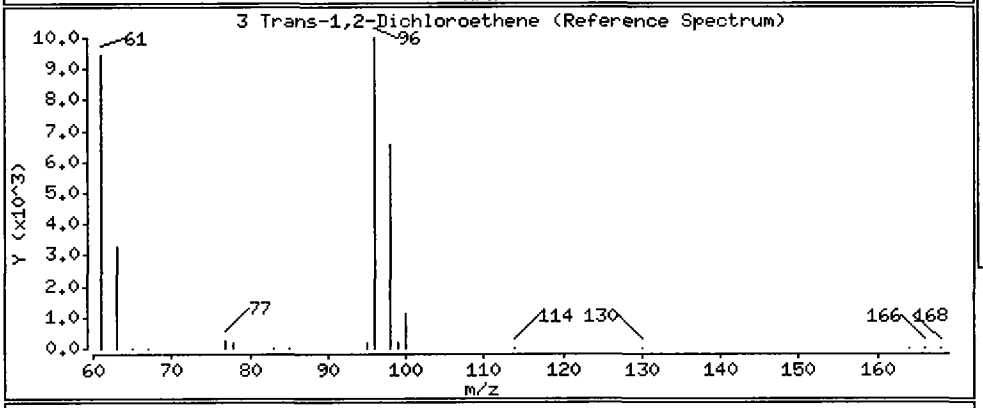
Concentration: 905.92 ug/L

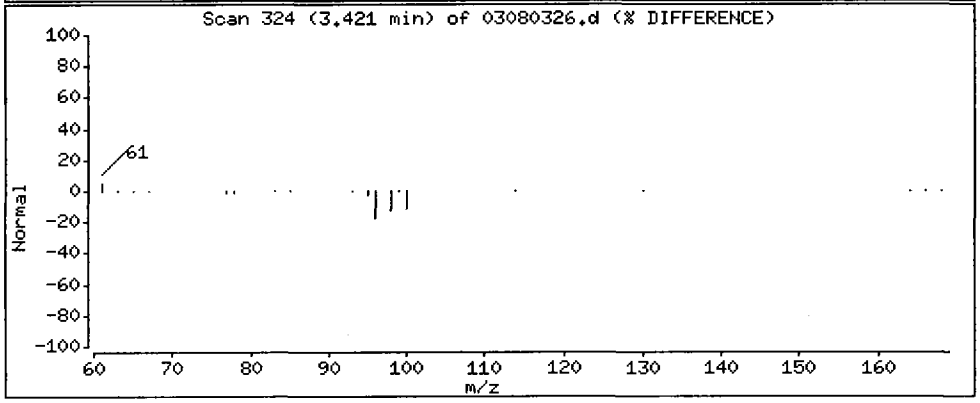












Data File: /chem1/nt10.i/08MAR10.b/03080326.d

Date : 08-MAR-2010 16:53

Client ID: CB31A022610GRAB MS

Instrument: nt10.i

Sample Info: QL85AMS,10,10,0,

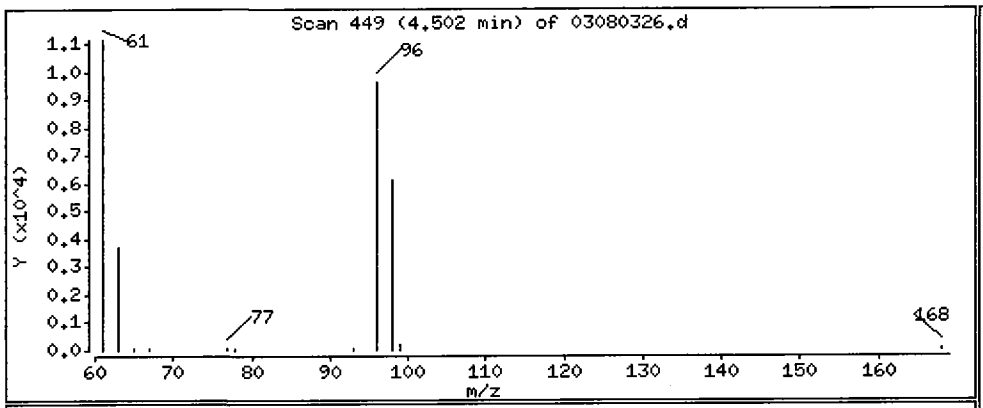
Operator: MH

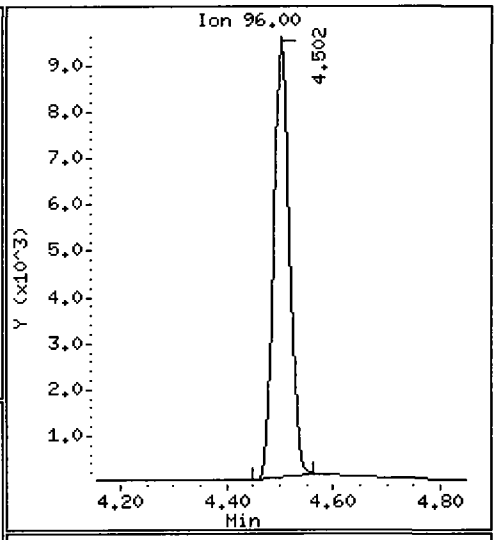
Column phase: RTX502.2

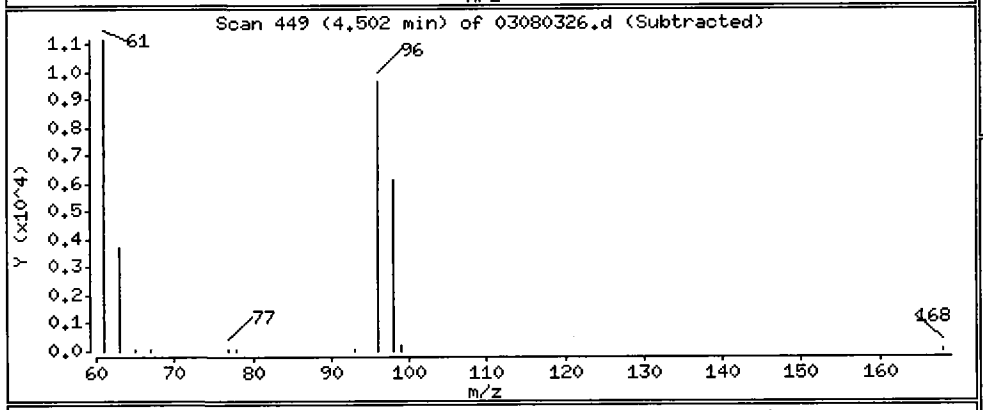
Column diameter: 0.18

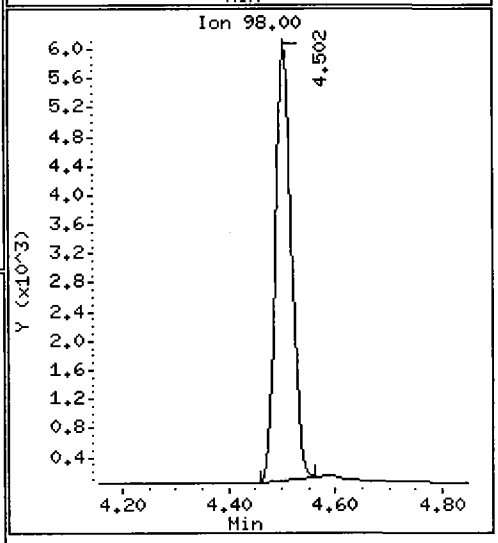
4 cis-1,2-dichloroethene

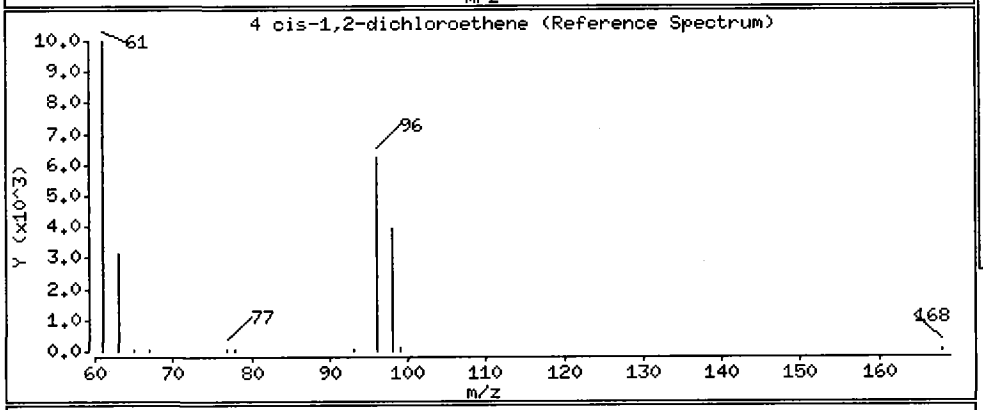
Concentration: 1047.6 ug/L

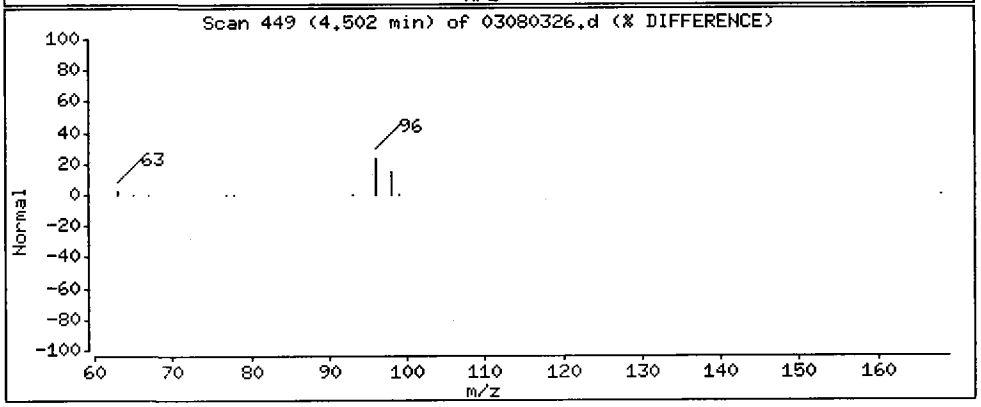












Data File: /chem1/nt10.i/08MAR10.b/03080326.d

Date : 08-MAR-2010 16:53

Client ID: CB31A022610GRAB MS

Instrument: nt10.i

Sample Info: QL85AMS,10,10,0,

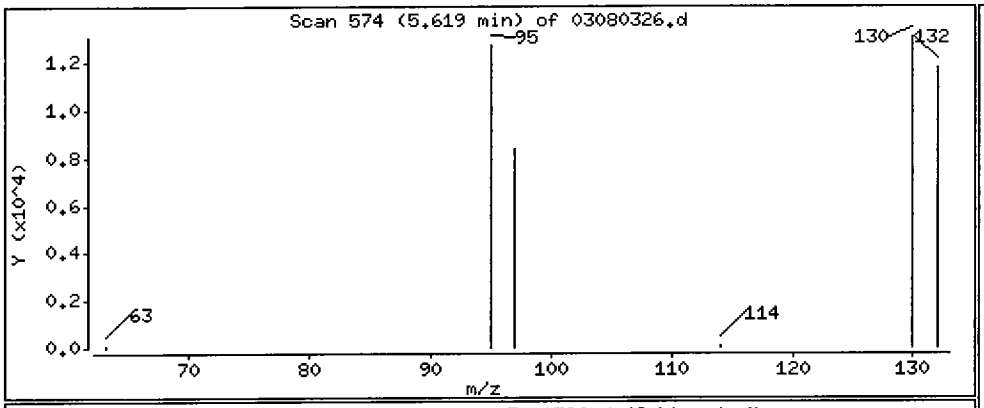
Operator: MH

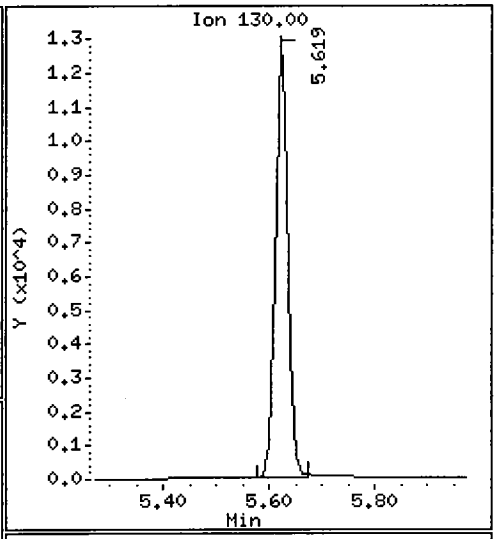
Column phase: RTX502.2

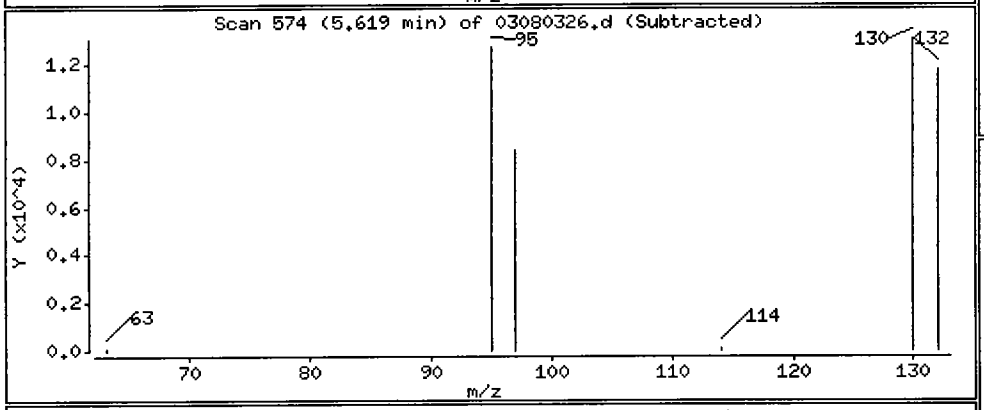
Column diameter: 0.18

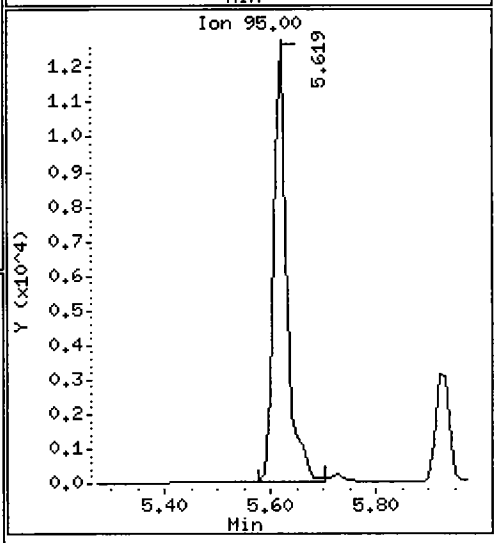
8 Trichloroethene

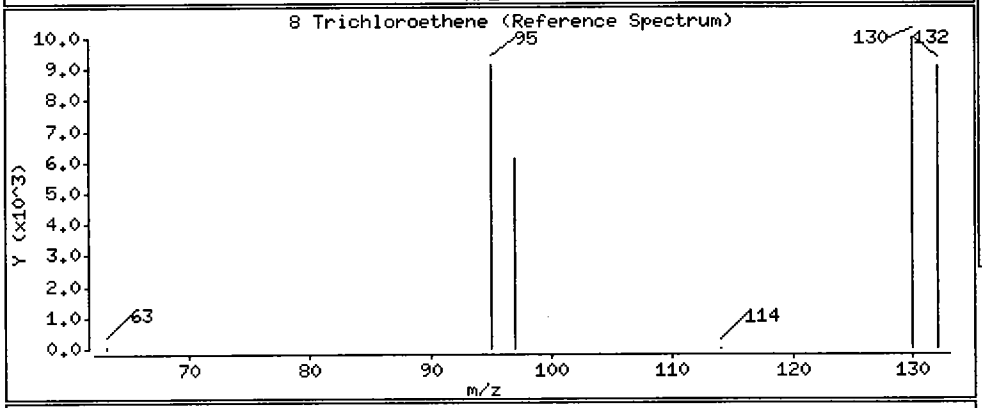
Concentration: 1036.6 ug/L

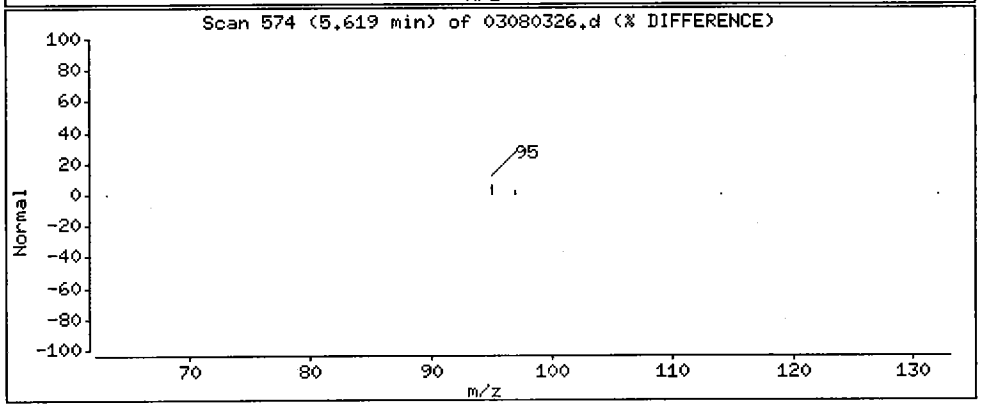












Data File: /chem1/nt10.i/08MAR10.b/03080326.d

Date : 08-MAR-2010 16:53

Client ID: CB31A022610GRAB MS

Instrument: nt10.i

Sample Info: QL85AMS,10,10,0,

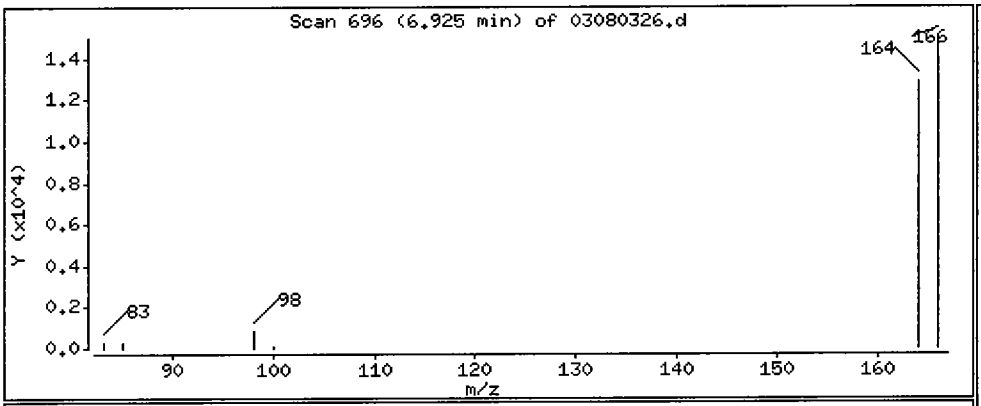
Operator: MH

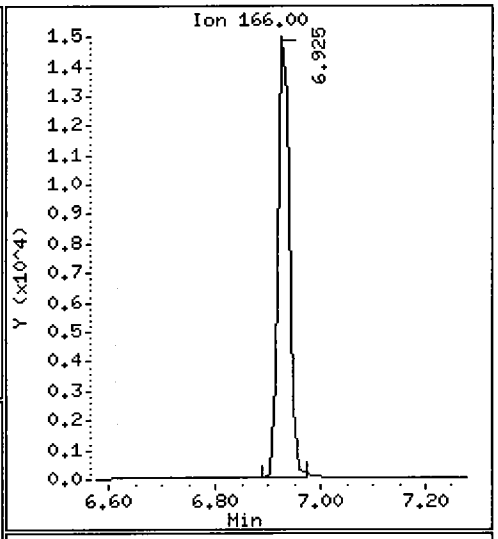
Column phase: RTX502.2

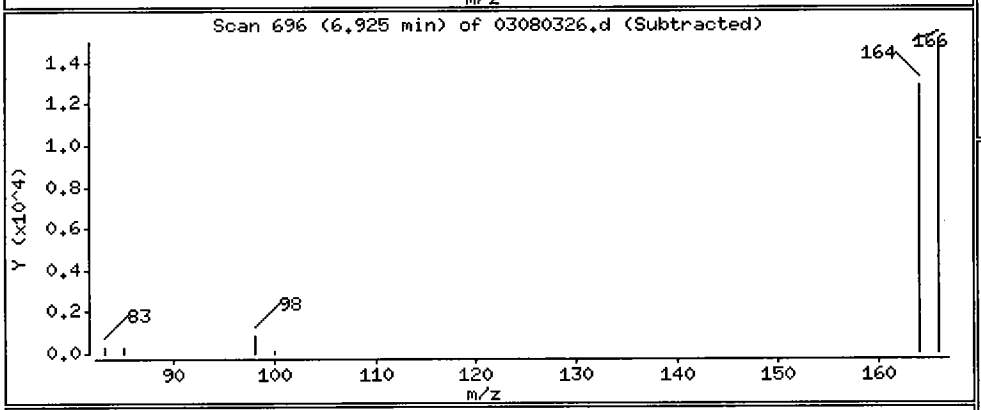
Column diameter: 0.18

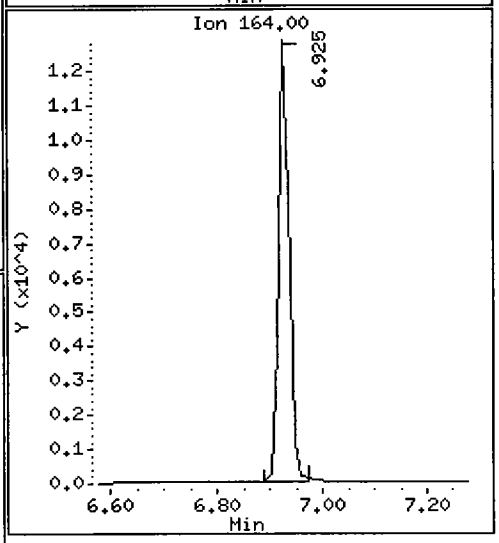
11 Tetrachloroethene

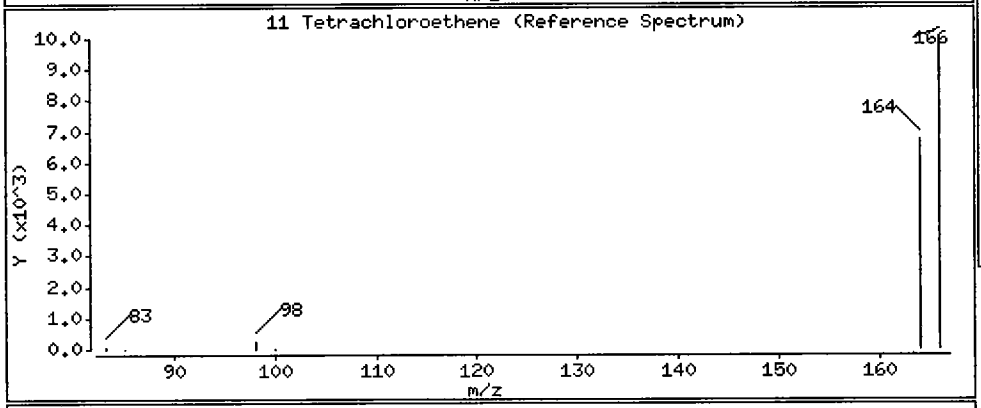
Concentration: 1069.8 ug/L

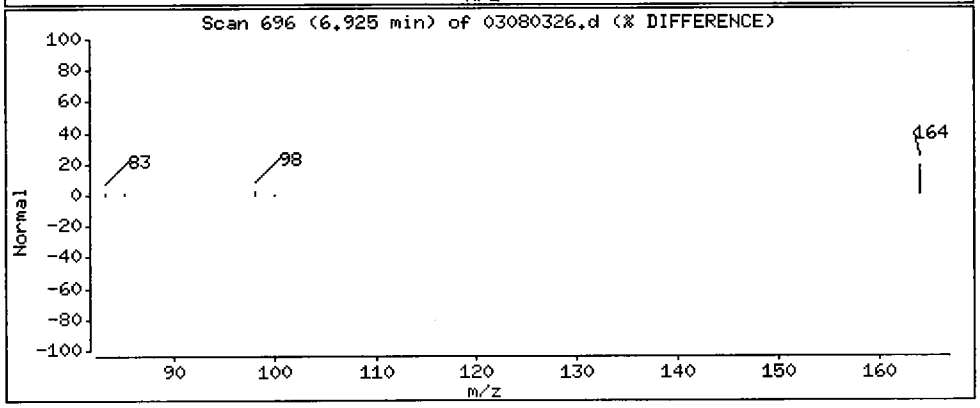












ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM **Sample ID: CB31A022610GRAB**
Page 1 of 1 **MATRIX SPIKE DUP**

Lab Sample ID: QL85A
LIMS ID: 10-4943
Matrix: Water
Data Release Authorized:
Reported: 03/10/10

QC Report No: QL85-Floyd-Snider
Project: Lora Lakes Apartments
POS-LLA
Date Sampled: 02/26/10
Date Received: 02/26/10

Instrument/Analyst: NT10/MH
Date Analyzed: 03/08/10 17:18

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
156-59-2	cis-1,2-Dichloroethene	0.020	---	
156-60-5	trans-1,2-Dichloroethene	0.020	---	
79-01-6	Trichloroethene	0.020	---	
127-18-4	Tetrachloroethene	0.020	---	

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	101%
d8-Toluene	101%

MH 3/10/10

Analytical Resources, Inc.

Data file : /chem1/nt10.i/08MAR10.b/03080327.d
Lab Smp Id: QL85AMSD Client Smp ID: CB31A022610GRAB MSD
Inj Date : 08-MAR-2010 17:18
Operator : MH Inst ID: nt10.i
Smp Info : QL85AMSD,10,10,0,
Misc Info : 10-4943
Comment :
Method : /chem1/nt10.i/08MAR10.b/SIM030410.m
Meth Date : 10-Mar-2010 07:50 monicah Quant Type: ISTD
Cal Date : 04-MAR-2010 16:58 Cal File: 030410.d
Als bottle: 1 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sim.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 10-Mar-2010 07:5 * CpndVariable

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/L)	FINAL (ug/L)
	1 Vinyl Chloride	62	1.602	1.602	(0.304)	16803	1043.59	1043.6
	2 1,1-Dichloroethene	96	2.607	2.607	(0.494)	18379	881.916	881.92
	3 Trans-1,2-Dichloroethene	96	3.412	3.412	(0.647)	18672	885.955	885.96
	4 cis-1,2-dichloroethene	96	4.502	4.502	(0.854)	19077	1040.92	1040.9
	5 Benzene	78	5.177	5.177	(0.982)	79837	1013.45	1013.4
*	6 Pentafluorobenzene	168	5.272	5.272	(1.000)	40177	1000.00	
$	7 d4-1,2-Dichloroethane	65	5.289	5.289	(1.003)	12998	1011.02	1011.0
	8 Trichloroethene	130	5.619	5.619	(0.994)	21840	1033.19	1033.2
*	9 1,4-Difluorobenzene	114	5.650	5.660	(1.000)	58610	1000.00	
$	10 d8-Toluene	98	6.632	6.632	(1.174)	65902	1008.84	1008.8
	11 Tetrachloroethene	166	6.925	6.925	(1.226)	23799	1065.91	1065.9
	12 1,1,2,2-Tetrachloroethane	83	8.723	8.723	(1.544)	9243	939.197	939.20

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: 03080327.d
Lab Smp Id: QL85AMSD
Analysis Type: VOA
Quant Type: ISTD
Operator: MH
Method File: /chem1/nt10.i/08MAR10.b/SIM030410.m
Misc Info: 10-4943

Calibration Date: 08-MAR-2010
Calibration Time: 06:54
Client Smp ID: CB31A022610GRAB MSD
Level: 06
Sample Type: Water

Test Mode:
Use Initial Calibration Level 5.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
6 Pentafluorobenzen	45054	22527	90108	40177	-10.82
9 1,4-Difluorobenze	66146	33073	132292	58610	-11.39

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
6 Pentafluorobenzen	5.27	4.77	5.77	5.27	0.00
9 1,4-Difluorobenze	5.66	5.16	6.16	5.65	-0.18

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Floyd-Snider
Sample Matrix: LIQUID
Lab Smp Id: QL85AMSD
Level:
Data Type: MS DATA
SpikeList File: sim.spk
Sublist File: sim.sub
Method File: /chem1/nt10.i/08MAR10.b/SIM030410.m
Misc Info: 10-4943

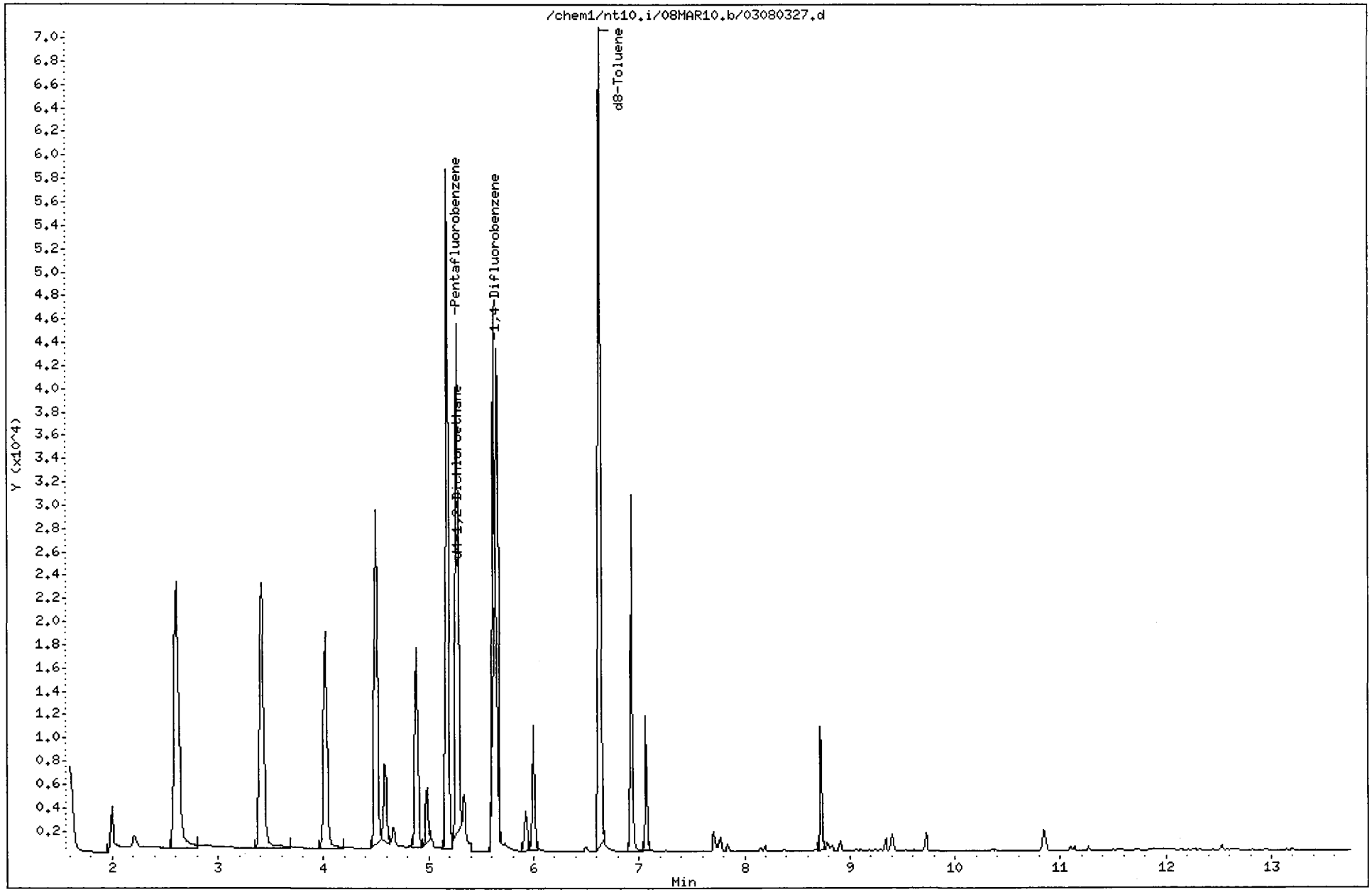
Client SDG: QL85
Fraction: VOA
Client Smp ID: CB31A022610GRAB MSD
RECOVERY REPORT Operator: MH
SampleType: MSD
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1 Vinyl Chloride	1000.0	1043.6	104.36	76-120
3 Trans-1,2-Dichloro	1000.0	885.96	88.60	70-130
2 1,1-Dichloroethene	1000.0	881.92	88.19	79-126
4 cis-1,2-dichloroet	1000.0	1040.9	104.09	76-127
5 Benzene	1000.0	1013.4	101.34	75-121
8 Trichloroethene	1000.0	1033.2	103.32	79-120
11 Tetrachloroethene	1000.0	1065.9	106.59	75-123
12 1,1,2,2-Tetrachlor	1000.0	939.20	93.92	72-129

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 7 d4-1,2-Dichloroeth	1000.0	1011.0	101.10	70-130
$ 10 d8-Toluene	1000.0	1008.8	100.88	70-130

Data File: /chem1/nt10.i/08MAR10.b/03080327.d
Date : 08-MAR-2010 17:18
Client ID: CB31A022610GRAB MSD
Sample Info: QL85AMSD,10,10,0,

Instrument: nt10.i
Operator: MH
Column phase: RTX502.2
Column diameter: 0.18



Data File: /chem1/nt10.i/08MAR10.b/03080327.d

Date : 08-MAR-2010 17:18

Client ID: CB31A022610GRAB MSD

Instrument: nt10.i

Sample Info: QL85AMSD,10,10,0,

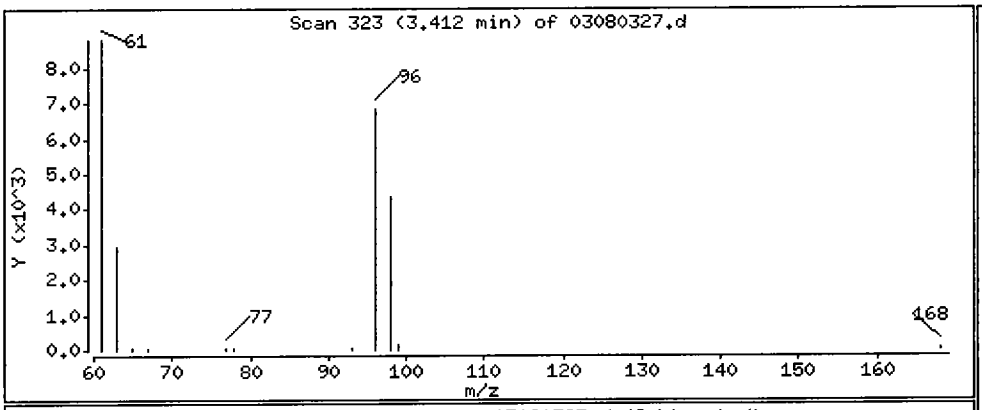
Operator: MH

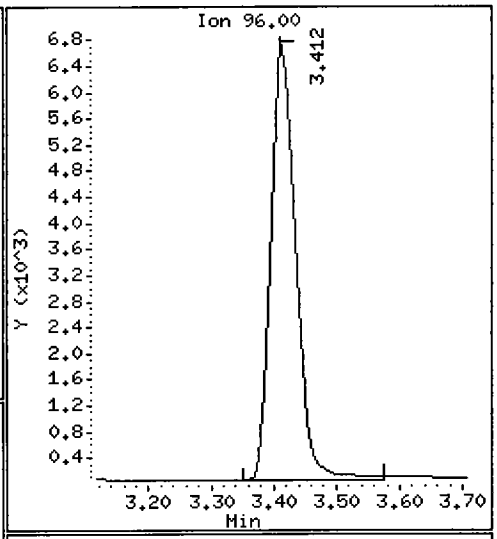
Column phase: RTX502.2

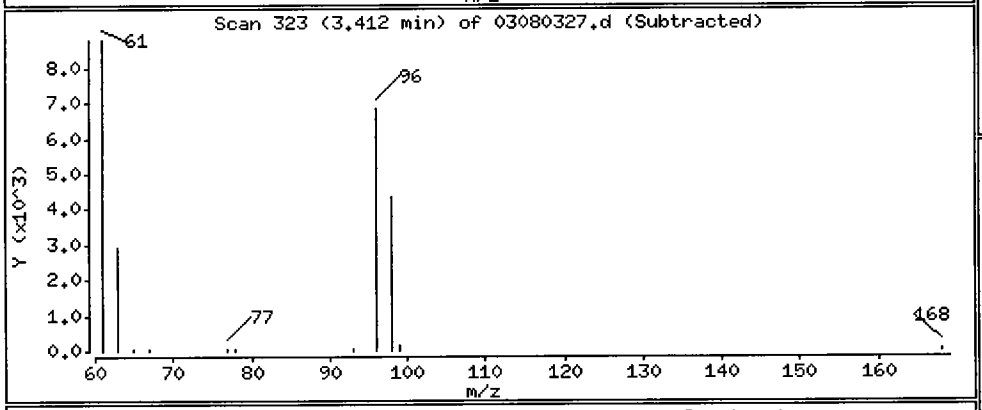
Column diameter: 0.18

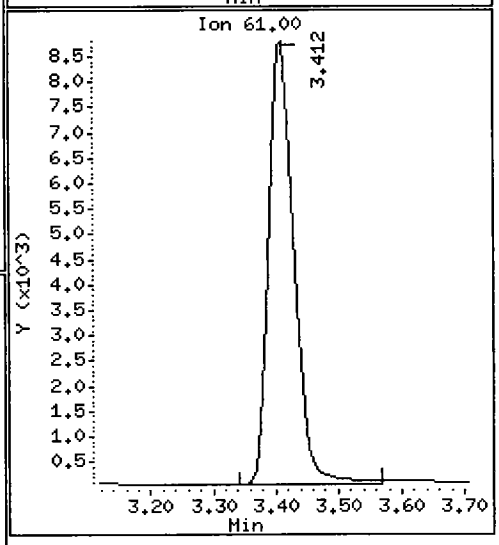
3 Trans-1,2-Dichloroethene

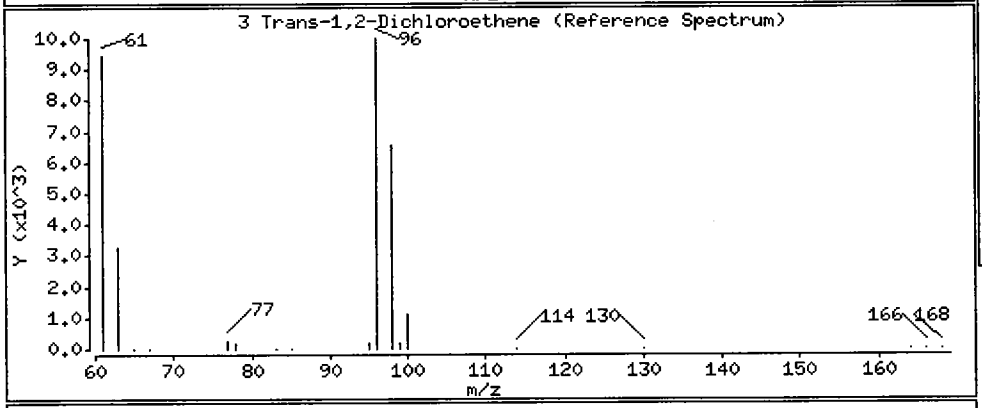
Concentration: 885.96 ug/L

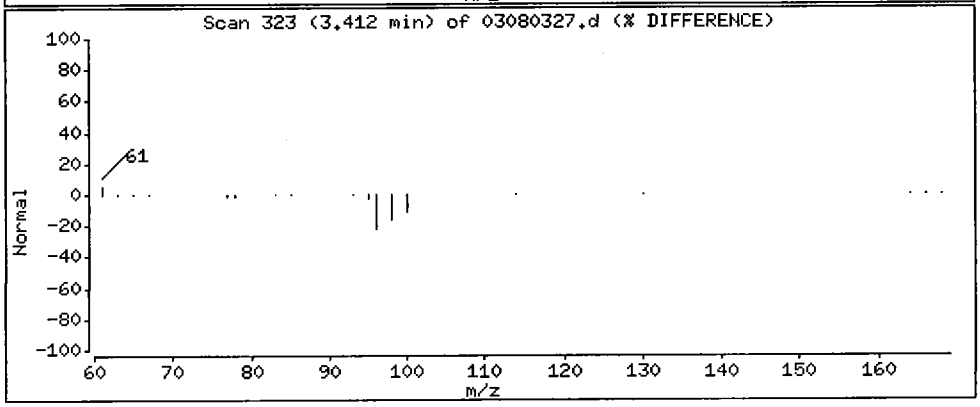












Data File: /chem1/nt10.i/08MAR10.b/03080327.d

Date : 08-MAR-2010 17:18

Client ID: CB31A022610GRAB MSD

Instrument: nt10.i

Sample Info: QL85AMSD,10,10,0,

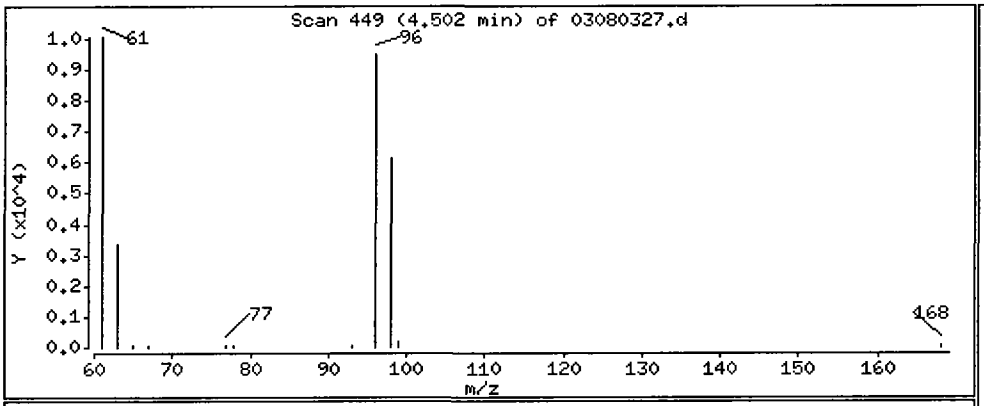
Operator: MH

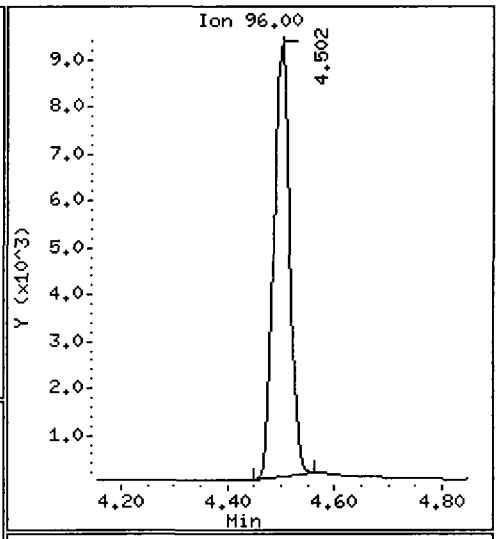
Column phase: RTX502.2

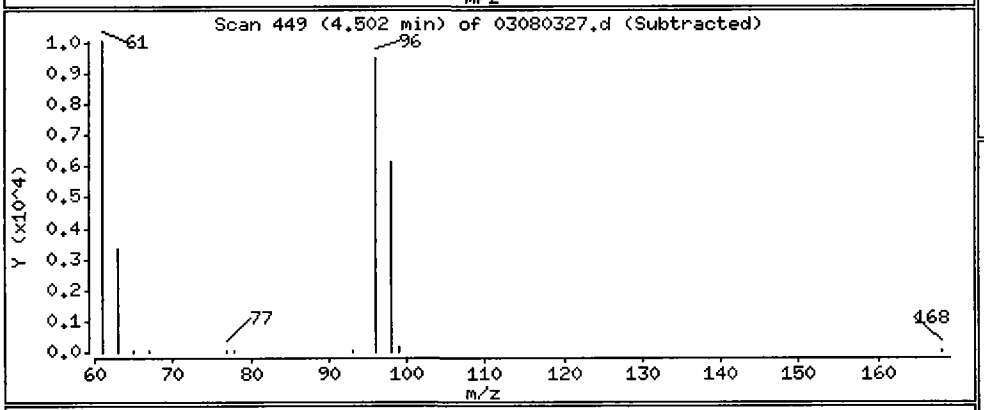
Column diameter: 0.18

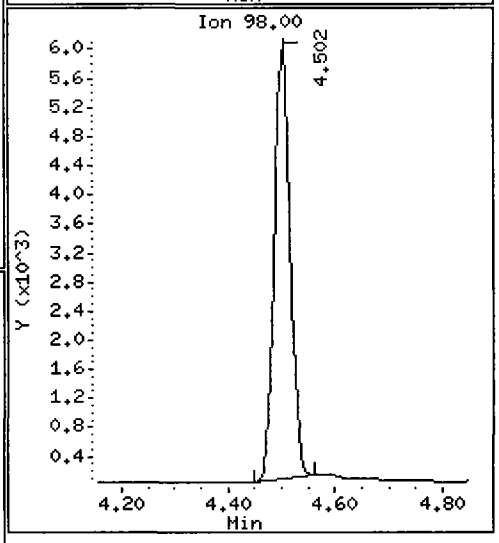
4 cis-1,2-dichloroethene

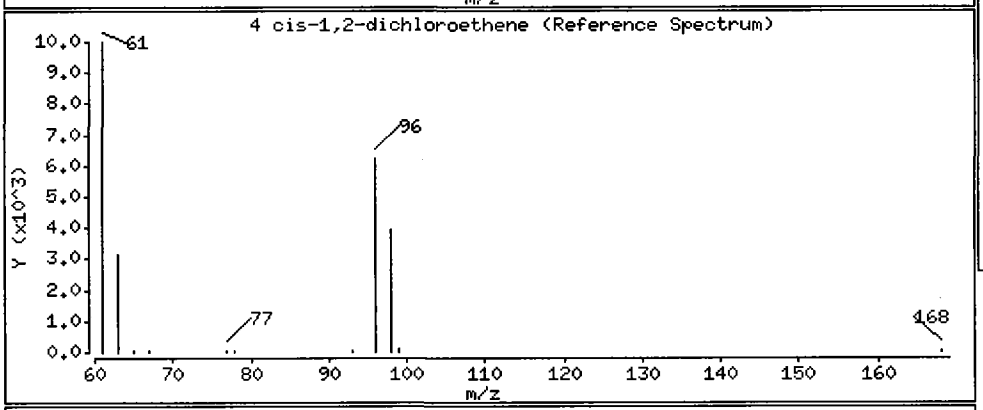
Concentration: 1040.9 ug/L

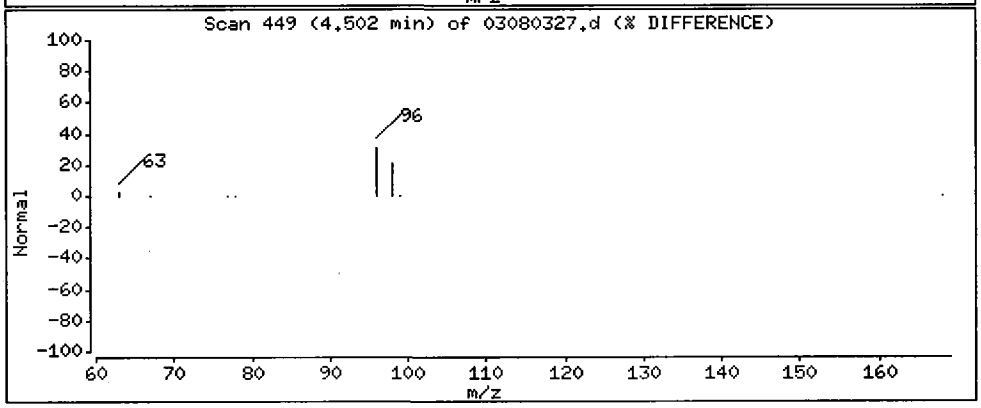












Data File: /chem1/nt10.i/08MAR10.b/03080327.d

Date : 08-MAR-2010 17:18

Client ID: CB31A022610GRAB MSD

Instrument: nt10.i

Sample Info: QL85AMSD,10,10,0,

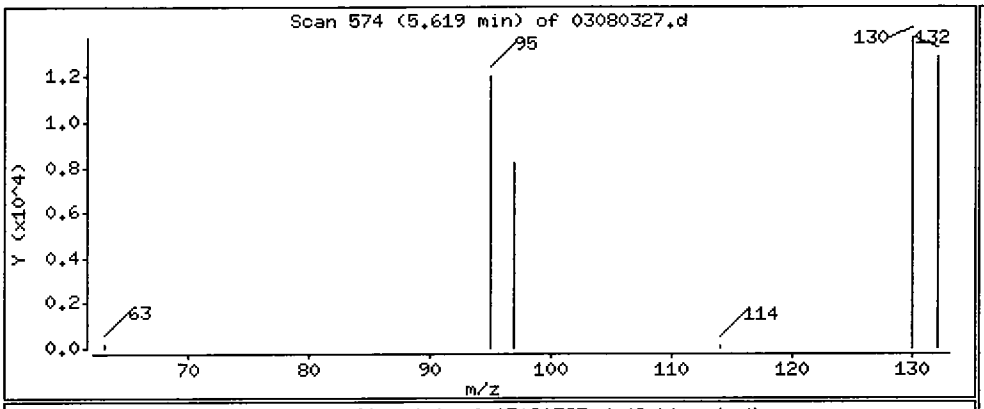
Operator: MH

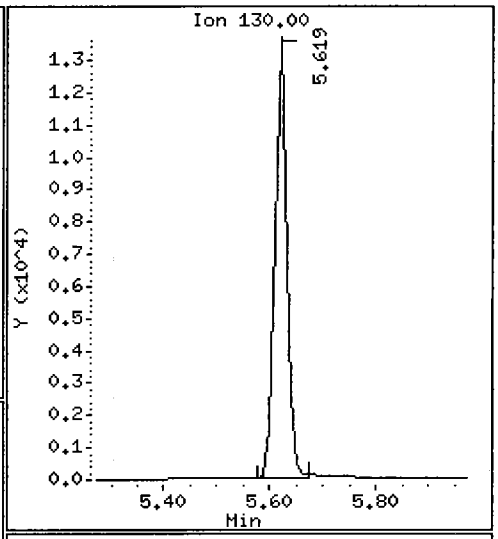
Column phase: RTX502.2

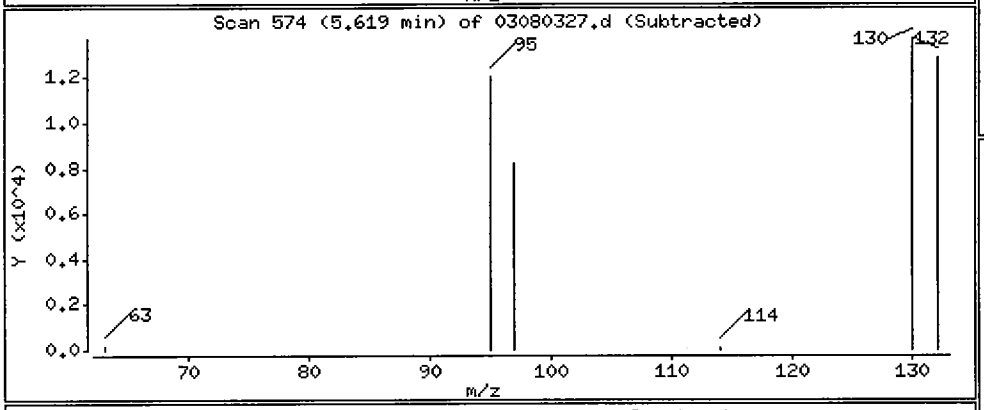
Column diameter: 0.18

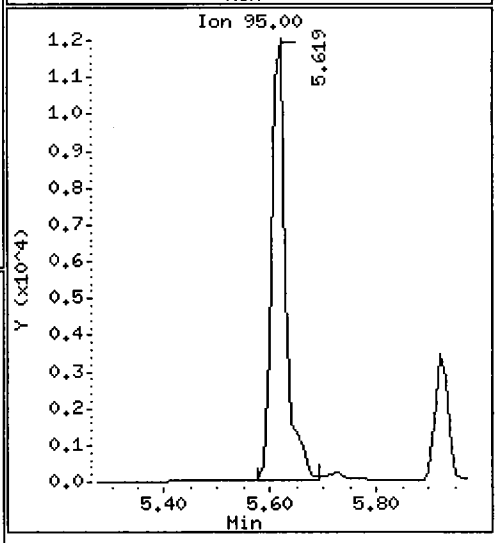
8 Trichloroethene

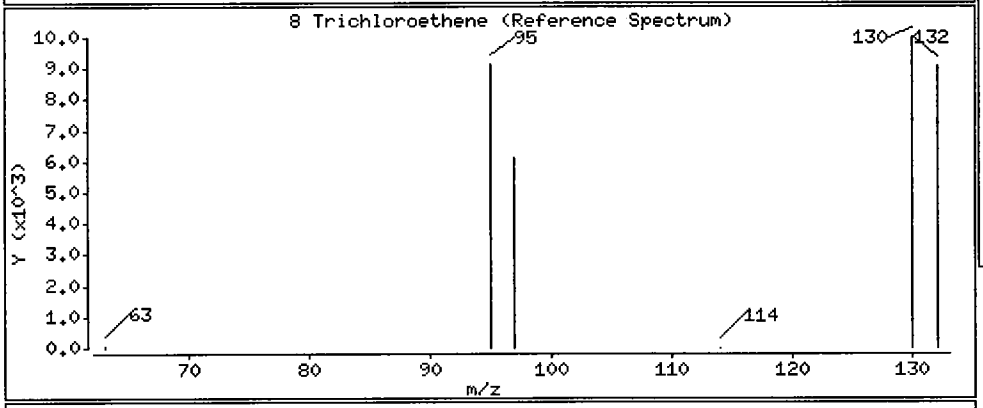
Concentration: 1033.2 ug/L

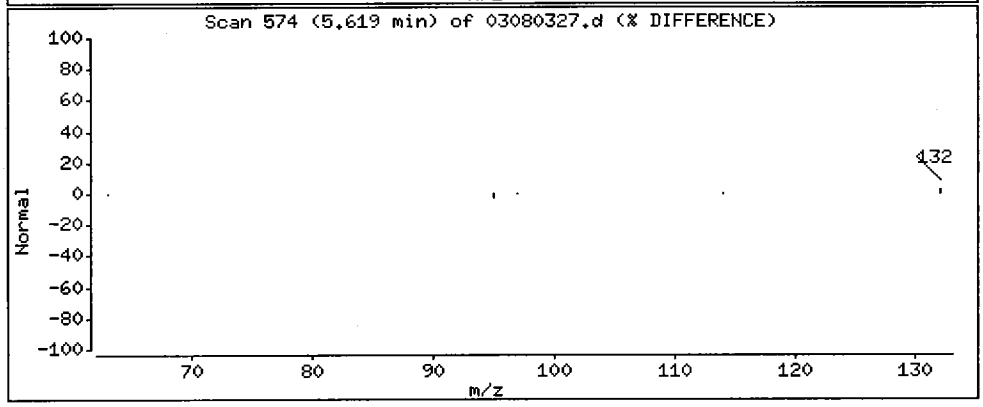












Data File: /chem1/nt10.i/08MAR10.b/03080327.d

Date : 08-MAR-2010 17:18

Client ID: CB31A022610GRAB MSD

Instrument: nt10.i

Sample Info: QL85AMSD,10,10,0,

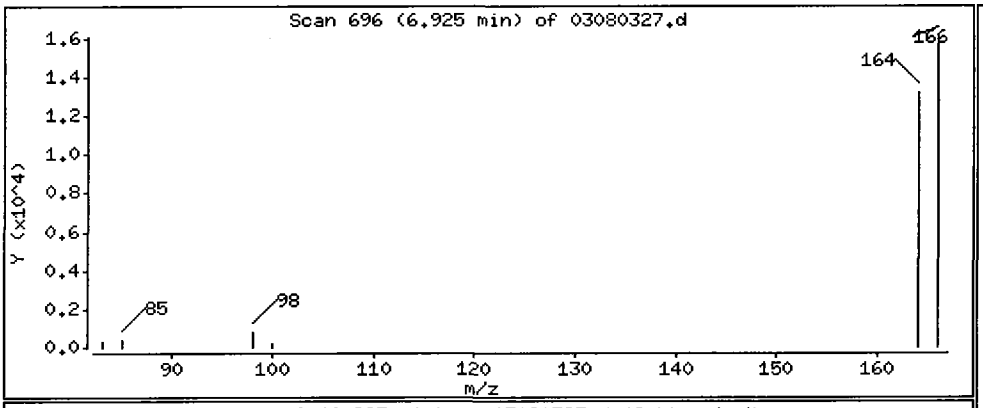
Operator: MH

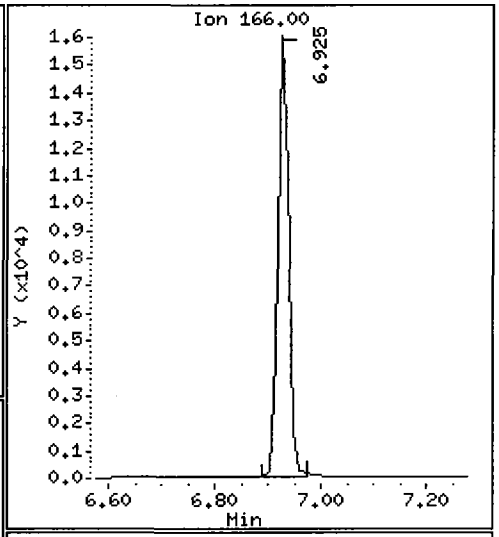
Column phase: RTX502.2

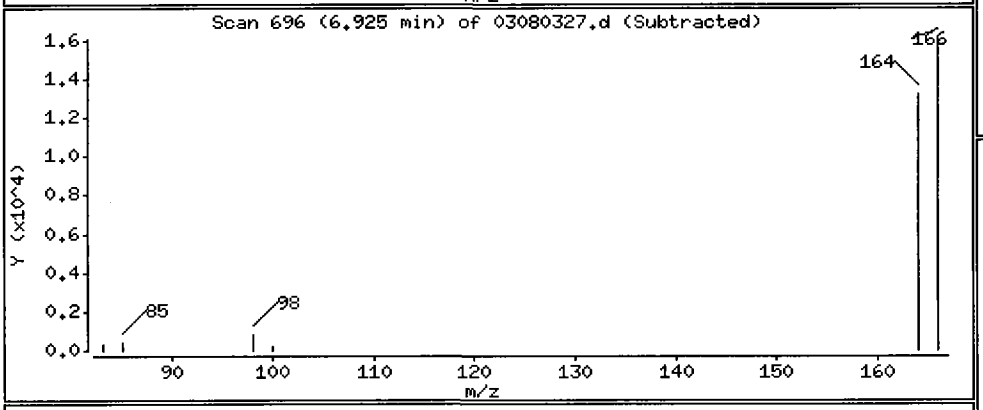
Column diameter: 0.18

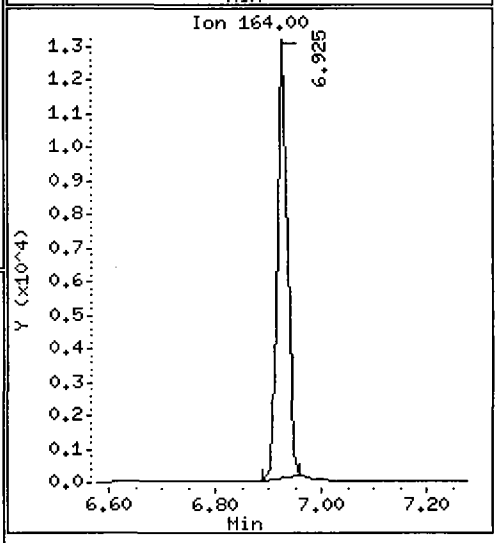
11 Tetrachloroethene

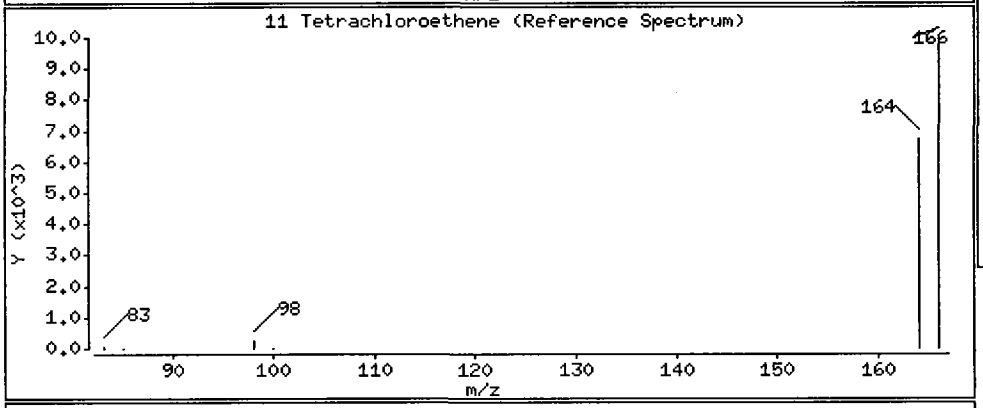
Concentration: 1065.9 ug/L

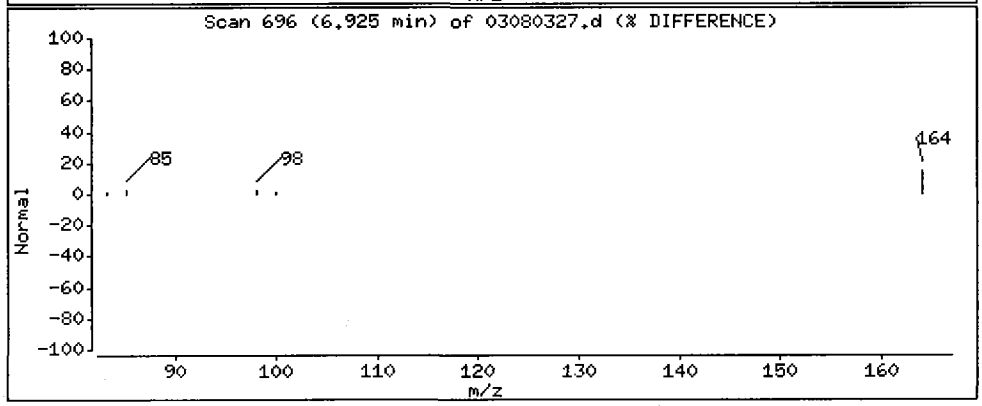












Analytical Resources, Inc.

Data file : /chem1/nt10.i/08MAR10.b/03080304.d
Lab Smp Id: LCS0308
Inj Date : 08-MAR-2010 07:31
Operator : MH Inst ID: nt10.i
Smp Info : LCS0308,10,10,0,
Misc Info : 09-
Comment :
Method : /chem1/nt10.i/08MAR10.b/SIM030410.m
Meth Date : 10-Mar-2010 07:50 monicah Quant Type: ISTD
Cal Date : 04-MAR-2010 16:58 Cal File: 030410.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sim.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 10-Mar-2010 07:5 * CpndVariable

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/L)	FINAL (ug/L)
	1 Vinyl Chloride	62	1.602	1.602	(0.304)	17904	1085.00	1085.0
	2 1,1-Dichloroethene	96	2.607	2.607	(0.494)	20089	940.583	940.58
	3 Trans-1,2-Dichloroethene	96	3.412	3.412	(0.647)	19782	915.850	915.85
	4 cis-1,2-dichloroethene	96	4.502	4.502	(0.854)	19846	1056.60	1056.6
	5 Benzene	78	5.177	5.177	(0.982)	85579	1059.98	1060.0
*	6 Pentafluorobenzene	168	5.272	5.272	(1.000)	41176	1000.00	
$	7 d4-1,2-Dichloroethane	65	5.289	5.289	(1.003)	12521	950.288	950.29
	8 Trichloroethene	130	5.619	5.619	(0.993)	23069	1068.88	1068.9
*	9 1,4-Difluorobenzene	114	5.660	5.660	(1.000)	59841	1000.00	
$	10 d8-Toluene	98	6.632	6.632	(1.172)	66637	999.111	999.11
	11 Tetrachloroethene	166	6.937	6.925	(1.226)	24854	1090.26	1090.3
	12 1,1,2,2-Tetrachloroethane	83	8.723	8.723	(1.541)	9287	924.255	924.26

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: 03080304.d
Lab Smp Id: LCS0308
Analysis Type: VOA
Quant Type: ISTD
Operator: MH
Method File: /chem1/nt10.i/08MAR10.b/SIM030410.m
Misc Info: 09-

Calibration Date: 08-MAR-2010
Calibration Time: 06:54

Level: 06
Sample Type: WATER

Test Mode:
Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
6 Pentafluorobenzen	45054	22527	90108	41176	-8.61
9 1,4-Difluorobenze	66146	33073	132292	59841	-9.53

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
6 Pentafluorobenzen	5.27	4.77	5.77	5.27	0.00
9 1,4-Difluorobenze	5.66	5.16	6.16	5.66	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

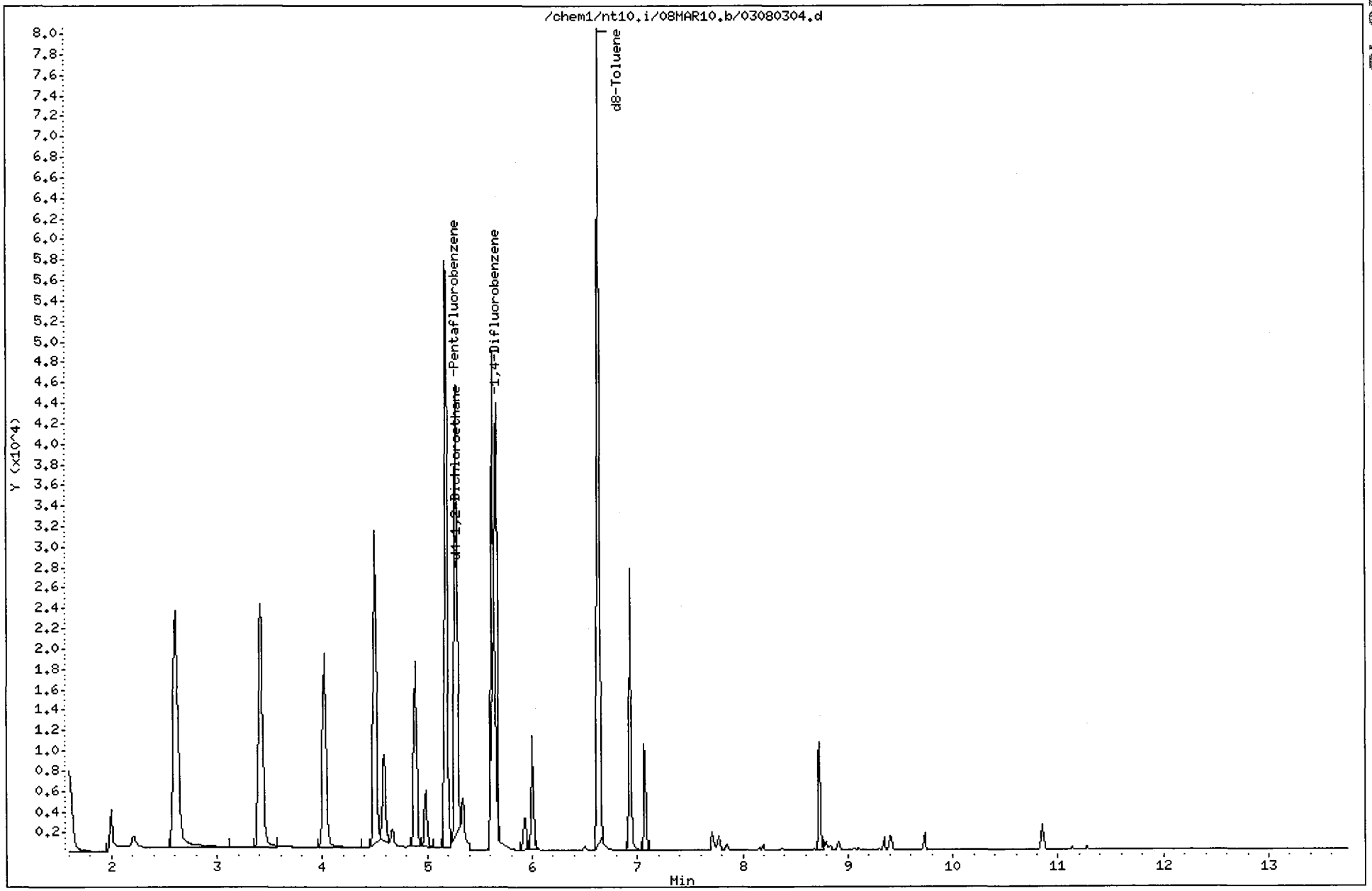
Client Name: Client SDG: 08MAR10
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id: LCS0308
Level: RECOVERY REPORT Operator: MH
Data Type: MS DATA SampleType: LCS
SpikeList File: sim.spk Quant Type: ISTD
Sublist File: sim.sub
Method File: /chem1/nt10.i/08MAR10.b/SIM030410.m
Misc Info: 09-

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1 Vinyl Chloride	1000.0	1085.0	108.50	76-120
3 Trans-1,2-Dichloro	1000.0	915.85	91.59	70-130
2 1,1-Dichloroethene	1000.0	940.58	94.06	79-126
4 cis-1,2-dichloroet	1000.0	1056.6	105.66	76-127
5 Benzene	1000.0	1060.0	106.00	75-121
8 Trichloroethene	1000.0	1068.9	106.89	79-120
11 Tetrachloroethene	1000.0	1090.3	109.03	75-123
12 1,1,2,2-Tetrachlor	1000.0	924.26	92.43	72-129

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 7 d4-1,2-Dichloroeth	1000.0	950.29	95.03	70-130
$ 10 d8-Toluene	1000.0	999.11	99.91	70-130

Data File: /chem1/nt10.i/08MAR10.b/03080304.d
Date : 08-MAR-2010 07:31
Client ID:
Sample Info: LCS0308,10,10,0,

Instrument: nt10.i
Operator: MH
Column phase: RTX502.2
Column diameter: 0.18



Data File: /chem1/nt10.i/08MAR10.b/03080305.d
Report Date: 10-Mar-2010 07:50

Analytical Resources, Inc.

Data file : /chem1/nt10.i/08MAR10.b/03080305.d
Lab Smp Id: LCSD0308
Inj Date : 08-MAR-2010 08:01
Operator : MH Inst ID: nt10.i
Smp Info : LCSD0308,10,10,0,
Misc Info : 09-
Comment :
Method : /chem1/nt10.i/08MAR10.b/SIM030410.m
Meth Date : 10-Mar-2010 07:50 monicah Quant Type: ISTD
Cal Date : 04-MAR-2010 16:58 Cal File: 030410.d
Als bottle: 1 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sim.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 10-Mar-2010 07:5 * CpndVariable

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/L)	FINAL (ug/L)
	1 Vinyl Chloride	62	1.602	1.602	(0.304)	17367	1072.59	1072.6
	2 1,1-Dichloroethene	96	2.607	2.607	(0.494)	18839	898.932	898.93
	3 Trans-1,2-Dichloroethene	96	3.412	3.412	(0.647)	18815	887.747	887.75
	4 cis-1,2-dichloroethene	96	4.502	4.502	(0.854)	19279	1046.06	1046.1
	5 Benzene	78	5.177	5.177	(0.982)	82490	1041.27	1041.3
*	6 Pentafluorobenzene	168	5.272	5.272	(1.000)	40403	1000.00	
$	7 d4-1,2-Dichloroethane	65	5.289	5.289	(1.003)	12340	954.469	954.47
	8 Trichloroethene	130	5.619	5.619	(0.993)	22239	1053.68	1053.7
*	9 1,4-Difluorobenzene	114	5.660	5.660	(1.000)	58520	1000.00	
$	10 d8-Toluene	98	6.632	6.632	(1.172)	65501	1004.25	1004.2
	11 Tetrachloroethene	166	6.925	6.925	(1.223)	23743	1065.04	1065.0
	12 1,1,2,2-Tetrachloroethane	83	8.723	8.723	(1.541)	8727	888.129	888.13

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: 03080305.d
Lab Smp Id: LCSD0308
Analysis Type: VOA
Quant Type: ISTD
Operator: MH
Method File: /chem1/nt10.i/08MAR10.b/SIM030410.m
Misc Info: 09-

Calibration Date: 08-MAR-2010
Calibration Time: 06:54

Level: 06
Sample Type: WATER

Test Mode:
Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
6 Pentafluorobenzen	45054	22527	90108	40403	-10.32
9 1,4-Difluorobenze	66146	33073	132292	58520	-11.53

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
6 Pentafluorobenzen	5.27	4.77	5.77	5.27	0.00
9 1,4-Difluorobenze	5.66	5.16	6.16	5.66	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name:
Client SDG: 08MAR10
Sample Matrix: LIQUID
Fraction: VOA
Lab Smp Id: LCSD0308
Level:
RECOVERY REPORT
Operator: MH
Data Type: MS DATA
SampleType: LCSD
SpikeList File: sim.spk
Quant Type: ISTD
Sublist File: sim.sub
Method File: /chem1/nt10.i/08MAR10.b/SIM030410.m
Misc Info: 09-

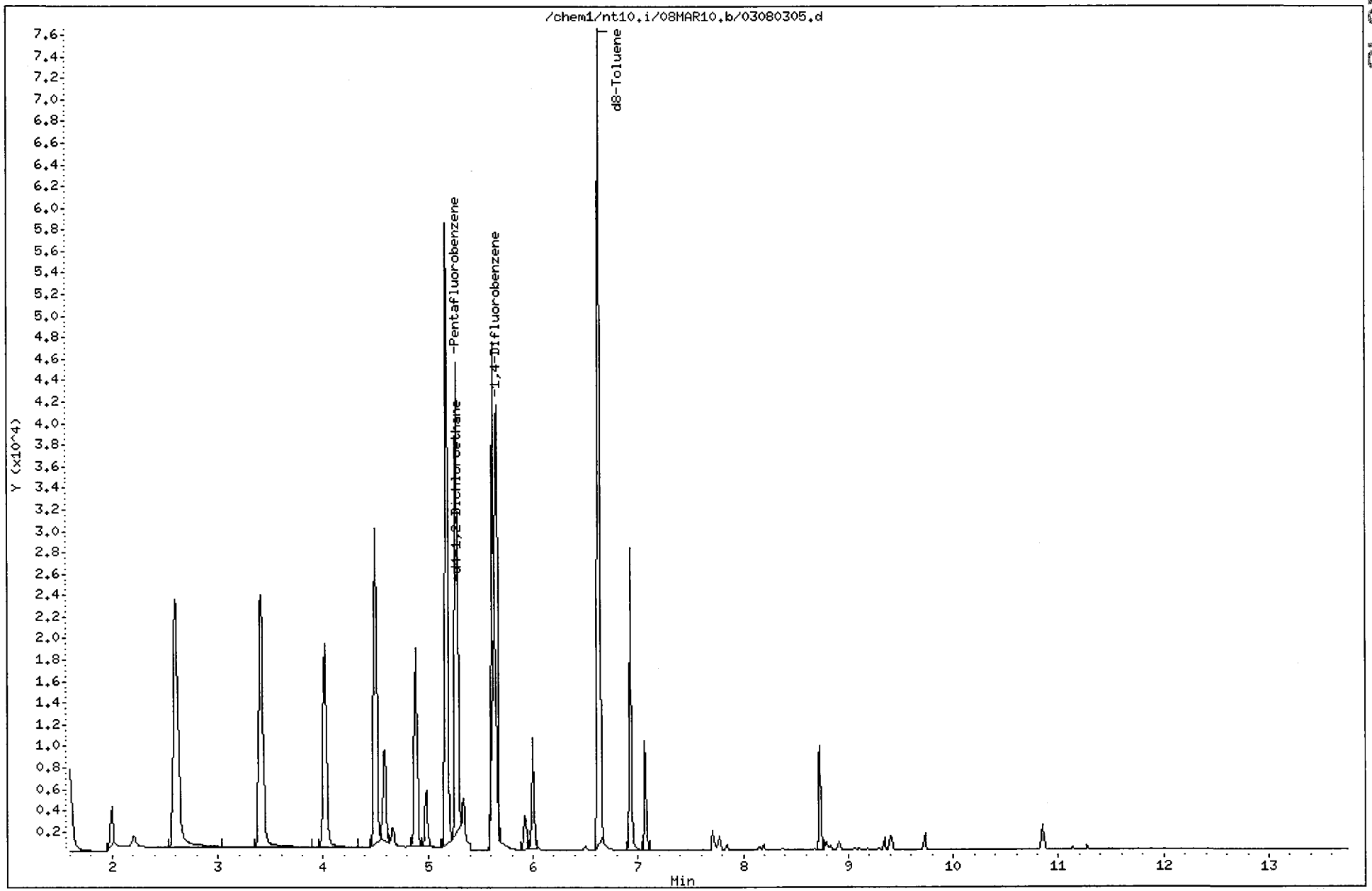
SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1 Vinyl Chloride	1000.0	1072.6	107.26	76-120
3 Trans-1,2-Dichloro	1000.0	887.75	88.77	70-130
2 1,1-Dichloroethene	1000.0	898.93	89.89	79-126
4 cis-1,2-dichloroet	1000.0	1046.1	104.61	76-127
5 Benzene	1000.0	1041.3	104.13	75-121
8 Trichloroethene	1000.0	1053.7	105.37	79-120
11 Tetrachloroethene	1000.0	1065.0	106.50	75-123
12 1,1,2,2-Tetrachlor	1000.0	888.13	88.81	72-129

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 7 d4-1,2-Dichloroeth	1000.0	954.47	95.45	70-130
$ 10 d8-Toluene	1000.0	1004.2	100.42	70-130

Data File: /chem1/nt10.i/08MAR10.b/03080305.d
Date : 08-MAR-2010 08:01
Client ID:
Sample Info: LCSD0308,10,10,0,

Instrument: nt10.i
Operator: MH
Column diameter: 0.18

Column phase: RTX502.2



SIM Volatile Analysis
Run Logs

prepared
for

Floyd-Snider

Project: Lora Lakes Apartments, POS-LLA

ARI JOB NO: QL85

prepared
by

Analytical Resources, Inc.

Analytical Resources Inc.: Volatile Organics Instrument Log

NT-10 Serial No.:GC=CN10837018, MS= US83131105

Date: 3/4/10 A Analysis: 8260 Analyst: AR

GC Program: VOA10 Column No: 8656268 Column Type: RTXVMS

Instrument Tune (.U or .CT.): bfb0303A.b EM Voltage: 1153

Calibration File: 1000303.b Curve Date: 3/4/2010

IS/SS	Ical/Ccal	LCS/ICV
617-3	619-2&3, 614-5,	569-5
	615-1 & 617-1	614-2&3
	623-1	590-2
		589-1

:NAL STANDARD SUMMARY FOR DATABATCH - /chem1/nt10.i/04MAR10a.b

Filename	LabID	ClientID	WT								
bfb0304a.d	BFB0304	BFB0304	0.00								
rb0304.d	RB0304	RB0304	1	5.27	428381	5.66	690397	7.72	607721	9.40	237003
0010304.d	IC001	vstd1	1	5.27	430763	5.66	689573	7.72	600050	9.40	215934
0020304.d	IC002	vstd2	1	5.27	412805	5.65	667305	7.72	584634	9.40	216482
0050304.d	IC005	vstd3	1	5.27	419701	5.66	681256	7.72	614085	9.40	226476
15000304.d	IC1500	vstd10	1	5.27	402904	5.65	656424	7.72	579678	9.41	182536
6000304.d	IC600	vstd9	1	5.27	436841	5.65	713571	7.72	638248	9.41	198024
4000304.d	IC400	vstd8	1	5.27	436809	5.66	705860	7.72	643590	9.41	217204
2000304.d	IC200	vstd7	1	5.27	464545	5.66	751576	7.72	676495	9.41	237636
1000304.d	IC100	vstd6	1	5.27	429759	5.66	690004	7.72	631144	9.41	251982
0400304.d	IC040	vstd5	1	5.27	461804	5.65	746135	7.72	665692	9.40	235664
0100304.d	IC010	vstd4	1	5.27	423621	5.65	680717	7.72	618251	9.40	216964
icv0304.d	ICV0304	ICV0304	1	5.27	448624	5.66	740075	7.72	681227	9.40	241591

AR 3/8/2010

Maintenance / Comments

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control):

Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

QL85 : 06

Analytical Resources, Incorporated
Analytical Chemists and Consultants

VOA Analyst Notes / Corrective Action Log

ARI Project ID: SIM Curve Client ID: _____

ARI SOP: **404S**(Gas) **410S**(BTEX) **430S**(VPH) **703S**(SIM) **706S**(524.2) **708S**(8260C) **710S**(MME)

Parameter(s): SIM

Instrument: NT-3 NT-5 NT-7 NT-9 (NT-10) PID-1 PID-2 PID-3 FID-6 FINN-5

Purge Volume (mL) 10 Curve Date: 3/4/10 Analysis Start Date: _____

pH ≤ 2.0 YES / NO / (NA) Method Blank In Control? (YES) / NO

BFB Tune Meets Criteria? (YES) / NO / NA LCS / LCSD Recovery In Control? (YES) / NO

Internal Standard Meets Criteria? (YES) / NO / NA Surrogate Recovery In Control? (YES) / NO

Special Analysis Criteria Met? YES / NO / (NA)

ICal acceptable? (YES) / NO; Q flag applied? YES / NO / NA

CCal acceptable? (YES) / NO; Q flag applied? YES / NO / NA

Bubbles/Headspace: None SM (≤ 2mm •) PB (2-4mm) LG (> 4mm ●) Head Space

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

Additional Details on Reverse: Yes / No

Analyst Signature: [signature] **Date:** 3/8/10

Reviewer's Signature: [signature] **Date:** 3/8/10

Analytical Resources Inc.: Volatile Organics Instrument Log
NT-10 Serial No.:GC=CN10837018, MS= US83131105

Date: 3/8/2010 Analysis: ~~8260~~ MH 3/9/10 SIM Analyst: MH

GC Program: VC Column No: 868268 Column Type: RTX VMS

Instrument Tune (.U or .CT.): 03080302 (BFB0308) EM Voltage: 1106

Calibration File: 03080303 (CC0308) Curve Date: 3/4/10

IS/SS	Ical/Ccal	LCS/ICV
VW618-3	VW617-1	VW617-1

INTERNAL STANDARD SUMMARY FOR DATABATCH - /chem1/nt10.i/08MAR10.b

	Time	Filename	LabID	ClientID	WT						
1	0557	03080301.d	RB0308	RB0308	0.00						
2	0621	03080302.d	BFB0308	BFB0308	0.00						
3	0654	03080303.d	CC0308			1	5.27	42076	5.66	59291	
4	0731	03080304.d	LCS0308			1	5.27	41176	5.66	59841	
5	0801	03080305.d	LCSD0308			1	5.27	40403	5.66	58520	
6	0830	03080306.d	MB0308			1	5.27	43876	5.66	62055	
7	0902	03080307.d	QL85E	TB022610	2 / 1 MH 3/9/10	1	5.27	39532	5.66	56834	
8	0926	03080308.d	QL85A	CB31A022610GRAB	31 / 1	1	5.27	41652	5.66	58946	
9	0951	03080309.d	QL85B	CB4857022610GRAB	2 / 1	1	5.27	42065	5.66	59990	
10	1016	03080310.d	QL85C	CB1022610GRAB	2 / 1	1	5.27	38647	5.66	55870	
11	1041	03080311.d	QL85D	CB102022610GRAB	3 / 1	1	5.27	39583	5.66	57547	
12	1106	03080312.d	QL60A	MW-19M-0210	2 / 1 MH 3/9/10	1	5.27	39674	5.66	57502	
13	1130	03080313.d	QL60B	MW-20M-0210	32 / 1	1	5.27	42569	5.66	62506	
14	1156	03080314.d	QL60C	MW-10-0210	3 / 1	1	5.27	42854	5.66	62688	
15	1221	03080315.d	QL60E	MW-21S-0210	3 / 1	1	5.27	39066	5.66	57273	
16	1246	03080316.d	QL60H	MW-12-0210	2 / 1	1	5.27	38959	5.66	56714	
17	1311	03080317.d	QL63A	Trip Blank	1 / 1	1	5.27	38547	5.66	55713	
18	1336	03080318.d	QL63B	MW-8S-0210	5 / 1	1	5.27	40935	5.66	61032	
19	1401	03080319.d	QL63C	MW-8M-0210	5 / 1	1	5.27	38648	5.66	56163	
20	1425	03080320.d	QL63D	MW-6-0210	2 / 1	1	5.27	40715	5.66	59017	
21	1450	03080321.d	QL60I	MW-11-0210	2 / 1	1	5.27	42807	5.66	63254	
22	1515	03080322.d	QL60K	MW-14D-0210	3 / 1	1	5.27	41782	5.66	61538	
23	1539	03080323.d	QL60L	MW-140D-0210	2 / 1	1	5.27	39504	5.66	57798	
24	1604	03080324.d	QL60M	MW-7-0210	2 / 1	1	5.27	40554	5.66	59487	
25	1628	03080325.d	QL60N	MW-13-0210	3 / 1	1	5.27	43500	5.66	64187	
26	1653	03080326.d	QL85AMS	CB31A022610GRAB MS	2 / 1	1	5.27	40554	5.66	59185	
27	1718	03080327.d	QL85AMSD	CB31A022610GRAB MSD	3 / 1	1	5.27	40177	5.65	58610	
28	1743	03080328.d	RINSE			1	5.27	43488	5.66	64356	
29	1807	03080329.d	RINSE			1	5.27	38877	5.66	56545	

MH 3/9/10

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control):

Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

VOA Analyst Notes / Corrective Action Log

ARI Project ID: QL85 Client ID: Floyd - Snider

ARI SOP: **404S**(Gas) **410S**(BTEX) **430S**(VPH) (**703S**(SIM)) **706S**(524.2) **708S**(8260C) **710S**(MME)

Parameter(s): SIM

Instrument: NT-3 NT-5 NT-7 NT-9 (NT-10) PID-1 PID-2 PID-3 FID-6 FINN-5

Purge Volume (mL) 10 Curve Date: 3/4/10 Analysis Start Date: 3/8/10

pH ≤ 2.0 (YES) / NO / NA Method Blank In Control? (YES) / NO

BFB Tune Meets Criteria? (YES) / NO / NA LCS / LCSD Recovery In Control? (YES) / NO

Internal Standard Meets Criteria? (YES) / NO / NA Surrogate Recovery In Control? (YES) / NO

Special Analysis Criteria Met? YES / NO (NA)

ICal acceptable? (YES) / NO; Q flag applied? YES / NO / NA

CCal acceptable? (YES) / NO; Q flag applied? YES / NO / NA

Bubbles/Headspace: None SM (≤ 2mm •) PB (2-4mm) LG (> 4mm ●) Head Space

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

Additional Details on Reverse: Yes / No

Analyst Signature: [signature] **Date:** 3/10/10

Reviewer's Signature: [signature] **Date:** 3/10/10

TPHD Analysis
QC Summary Data

prepared
for

Floyd-Snider

Project: Lora Lakes Apartments, POS-LLA

ARI JOB NO: QL85

prepared
by

Analytical Resources, Inc.

ANALYTICAL RESOURCES INCORPORATED

CLEANED TPHD SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: QL85-Floyd-Snider
Project: Lora Lakes Apartments
POS-LLA

Client ID	OTER	TOT OUT
MB-030110	80.2%	0
LCS-030110	79.5%	0
CB31A022610GRAB	59.5%	0
CB31A022610GRAB MS	75.8%	0
CB31A022610GRAB MSD	76.4%	0
CB4857022610GRAB	47.8%	0
CB1022610GRAB	65.0%	0
CB102022610GRAB	69.5%	0

	LCS/MB LIMITS	QC LIMITS
(OTER) = o-Terphenyl	(51-120)	(41-121)

Prep Method: SW3510C
Log Number Range: 10-4943 to 10-4946

FORM-II TPHD

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
NWTPHD by GC/FID-Silica and Acid Cleaned **Sample ID: CB31A022610GRAB**
Page 1 of 1 **MS/MSD**

Lab Sample ID: QL85A
LIMS ID: 10-4943
Matrix: Water
Data Release Authorized:
Reported: 03/03/10

QC Report No: QL85-Floyd-Snider
Project: Lora Lakes Apartments
POS-LLA
Date Sampled: 02/26/10
Date Received: 02/26/10

Date Extracted MS/MSD: 03/01/10

Date Analyzed MS: 03/02/10 21:01
MSD: 03/02/10 21:18
Instrument/Analyst MS: FID/MS
MSD: FID/MS

Sample Amount MS: 500 mL
MSD: 500 mL
Final Extract Volume MS: 1.0 mL
MSD: 1.0 mL
Dilution Factor MS: 1.00
MSD: 1.00

Range	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Diesel	< 0.25	1.95	3.00	65.0%	1.94	3.00	64.7%	0.5%

TPHD Surrogate Recovery

	MS	MSD
o-Terphenyl	75.8%	76.4%

Results reported in mg/L
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
NWTPHD by GC/FID-Silica and Acid Cleaned **Sample ID: LCS-030110**
LAB CONTROL

Lab Sample ID: LCS-030110
LIMS ID: 10-4943
Matrix: Water
Data Release Authorized:
Reported: 03/03/10

QC Report No: QL85-Floyd-Snider
Project: Lora Lakes Apartments
POS-LLA
Date Sampled: 02/26/10
Date Received: 02/26/10

Date Extracted: 03/01/10
Date Analyzed: 03/02/10 20:26
Instrument/Analyst: FID/MS

Sample Amount: 500 mL
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00

Range	Lab Control	Spike Added	Recovery
Diesel	1.90	3.00	63.3%

TPHD Surrogate Recovery

o-Terphenyl	79.5%

Results reported in mg/L

4

TPH METHOD BLANK SUMMARY

BLANK NO.

QL85MBW1

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD-SNIDER

SDG No.: QL85 Project No.: LORA LAKE APARTMENTS

Date Extracted: 03/01/10 Matrix: LIQUID

Date Analyzed : 03/02/10 Instrument ID : FID3A

Time Analyzed : 2009

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED
01	QL85LCSW1	QL85LCSW1	03/02/10
02	CB31A022610G	QL85A	03/02/10
03	CB31A022610G	QL85AMS	03/02/10
04	CB31A022610G	QL85AMSD	03/02/10
05	CB4857022610	QL85B	03/02/10
06	CB1022610GRA	QL85C	03/02/10
07	CB102022610G	QL85D	03/02/10
08			
09			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			

FORM IV TPH

TPH ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD-SNIDER

SDG No.: QL85 Project: LORA LAKE APARTMENTS

Instrument ID: FID3A GC Column: ZB1-HT

Run Date: 03/02/10

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, AND STANDARDS, IS GIVEN BELOW:

SURROGATE RT FROM DAILY STANDARD
TERPH: 4.93 TRIAC: 6.79

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TERPH RT #	TRIAC RT #
01	ZZZZZ	ZZZZZ	03/02/10	1826	4.93	6.79
02	ZZZZZ	ZZZZZ	03/02/10	1843	4.93	6.78
03	RT	RT	03/02/10	1900	4.93	6.79
04	IB	IB	03/02/10	1917	4.93	6.79
05	DIESEL#1	DIESEL#1	03/02/10	1935	4.93	6.78
06	MOIL#1	MOIL#1	03/02/10	1952	4.93	6.79
07	QL85MBW1	QL85MBW1	03/02/10	2009	4.93	6.78
08	QL85LCSW1	QL85LCSW1	03/02/10	2026	4.93	6.78
09	CB31A022610G	QL85A	03/02/10	2044	4.93	6.78
10	CB31A022610G	QL85AMS	03/02/10	2101	4.93	6.78
11	CB31A022610G	QL85AMSD	03/02/10	2118	4.93	6.78
12	CB4857022610	QL85B	03/02/10	2136	4.93	6.78
13	CB1022610GRA	QL85C	03/02/10	2153	4.93	6.78
14	CB102022610G	QL85D	03/02/10	2210	4.93	6.78
15	DIESEL#2	DIESEL#2	03/02/10	2227	4.93	6.78
16	MOIL#2	MOIL#2	03/02/10	2245	4.93	6.79

QC LIMITS

TERPH = o-terph (+/- 0.05 MINUTES)
TRIAC = Triacon Surr (+/- 0.05 MINUTES)

* Values outside of QC limits.

FORM VIII TPH

TPH ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD-SNIDER

SDG No.: QL85 Project: LORA LAKE APARTMENTS

Instrument ID: FID3A GC Column: ZB1-HT

Run Date: 02/24/10

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, AND STANDARDS, IS GIVEN BELOW:

SURROGATE RT FROM DAILY STANDARD
TERPH: 4.93 TRIAC: 6.79

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TERPH RT #	TRIAC RT #
01	RT	RT	02/24/10	1756	4.93	6.79
02	IB	IB	02/24/10	1814	4.93	6.79
03	MOIL 100	MOIL 100	02/24/10	2048	4.93	6.78
04	MOIL 250	MOIL 250	02/24/10	2105	4.93	6.79
05	MOIL 500	MOIL 500	02/24/10	2122	4.93	6.79
06	MOIL 1000	MOIL 1000	02/24/10	2139	4.93	6.80
07	MOIL 2500	MOIL 2500	02/24/10	2156	4.94	6.81
08	MOIL 5000	MOIL 5000	02/24/10	2213	4.93	6.83
09	MOIL ICV	MOIL ICV	02/24/10	2230	4.93	6.79

QC LIMITS

TERPH = o-terph (+/- 0.05 MINUTES)
TRIAC = Triacon Surr (+/- 0.05 MINUTES)

* Values outside of QC limits.

TPH ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD-SNIDER

SDG No.: QL85 Project: LORA LAKE APARTMENTS

Instrument ID: FID3A GC Column: ZB1-HT

Run Date: 03/01/10

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, AND STANDARDS, IS GIVEN BELOW:

SURROGATE RT FROM DAILY STANDARD
TERPH: 4.93 TRIAC: 6.78

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TERPH RT #	TRIAC RT #
01	RT	RT	03/01/10	1620	4.93	6.78
02	IB	IB	03/01/10	1637	4.93	6.79
03	DIESEL 50	DIESEL 50	03/01/10	1655	4.93	6.78
04	DIESEL 100	DIESEL 100	03/01/10	1712	4.93	6.78
05	DIESEL 250	DIESEL 250	03/01/10	1730	4.93	6.78
06	DIESEL 500	DIESEL 500	03/01/10	1747	4.94	6.78
07	DIESEL 1000	DIESEL 1000	03/01/10	1804	4.94	6.78
08		DIESEL 2500	03/01/10	1822	4.96	6.78

QC LIMITS

TERPH = o-terph (+/- 0.05 MINUTES)
TRIAC = Triacon Surr (+/- 0.05 MINUTES)

* Values outside of QC limits.

FORM VIII TPH

TPHD Analysis
Sample Data

prepared
for

Floyd-Snider

Project: Lora Lakes Apartments, POS-LLA

ARI JOB NO: QL85

prepared
by

Analytical Resources, Inc.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
TOTAL DIESEL RANGE HYDROCARBONS
NWTPHD by GC/FID-Silica and Acid Cleaned
Page 1 of 1
Matrix: Water

QC Report No: QL85-Floyd-Snider
Project: Lora Lakes Apartments
POS-LLA

Data Release Authorized:
Reported: 03/03/10

ARI ID	Sample ID	Extraction Date	Analysis Date	EFV DL	Range	RL	Result
MB-030110	Method Blank	03/01/10	03/02/10	1.00	Diesel	0.25	< 0.25 U
10-4943	HC ID: ---		FID3A	1.0	Motor Oil	0.50	< 0.50 U
					o-Terphenyl		80.2%
QL85A	CB31A022610GRAB	03/01/10	03/02/10	1.00	Diesel	0.25	< 0.25 U
10-4943	HC ID: ---		FID3A	1.0	Motor Oil	0.50	< 0.50 U
					o-Terphenyl		59.5%
QL85B	CB4857022610GRAB	03/01/10	03/02/10	1.00	Diesel	0.25	< 0.25 U
10-4944	HC ID: ---		FID3A	1.0	Motor Oil	0.50	< 0.50 U
					o-Terphenyl		47.8%
QL85C	CB1022610GRAB	03/01/10	03/02/10	1.00	Diesel	0.25	< 0.25 U
10-4945	HC ID: ---		FID3A	1.0	Motor Oil	0.50	< 0.50 U
					o-Terphenyl		65.0%
QL85D	CB102022610GRAB	03/01/10	03/02/10	1.00	Diesel	0.25	< 0.25 U
10-4946	HC ID: ---		FID3A	1.0	Motor Oil	0.50	< 0.50 U
					o-Terphenyl		69.5%

Reported in mg/L (ppm)

EFV-Effective Final Volume in mL.
DL-Dilution of extract prior to analysis.
RL-Reporting limit.

Diesel quantitation on total peaks in the range from C12 to C24.
Motor Oil quantitation on total peaks in the range from C24 to C38.
HC ID: DRO/RRO indicate results of organics or additional hydrocarbons in ranges are not identifiable.

FORM I

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20100302.b/0302a009.d
Method: /chem3/fid3a.i/20100302.b/ftphfid3a.m
Instrument: fid3a.i
Operator: ms
Report Date: 03/03/2010
Macro: FID:3A030110

ARI ID: QL85A
Client ID: CB31A022610GRAB
Injection: 02-MAR-2010 20:44
Dilution Factor: 1

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.460	0.003	7084	8667	GAS (Tol-C12)	195591	6
C8	1.828	-0.003	2032	446	DIESEL (C12-C24)	1756052	59
C10	3.045	0.000	2549	1241	M.OIL (C24-C38)	4401177	196
C12	3.627	0.000	2071	1674	AK-102 (C10-C25)	1943395	58
C14	4.081	0.000	8526	4841	AK-103 (C25-C36)	3922701	439
C16	4.476	0.000	32354	17510	OR.DIES (C10-C28)	3414538	162
C18	4.829	0.000	50678	32115	OR.MOIL (C28-C40)	3052366	271
C20	5.149	-0.001	47608	36206	JET-A (C10-C18)	487410	31
C22	5.468	-0.002	36138	37088			
C24	5.801	0.000	40054	32339	STODDARD (C8-C12)	138595	5
C25	5.968	0.000	45471	15057			
C26	6.133	-0.001	48114	29136			
C28	6.460	-0.002	54323	52202			
C32	7.079	-0.002	43628	64706			
C34	7.367	-0.001	38606	40659			
Filter Peak	9.041	0.000	7838	782			
C36	7.640	-0.002	29879	18425	CREOSOT (C8-C22)	1291538	202
C38	7.898	-0.002	23876	10491			
C40	8.148	0.001	19325	8000	BUNKERC (C10-C38)	6204853	718

Range Times: NW Diesel(3.678 - 5.851) NW Gas(1.407 - 3.678) NW M.Oil(5.851 - 7.950)
AK102(2.995 - 5.918) AK103(5.918 - 7.691) Jet A(2.995 - 4.879)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1034945	26.8	59.5
Triacontane	999741	28.5	63.2

Analyte	RF	Curve Date
o-Terph Surr	38638.9	01-MAR-2010
Triacon Surr	35130.8	24-FEB-2010
Gas	31379.9	03-DEC-2009
Diesel	29779.8	01-MAR-2009
Motor Oil	22441.3	24-FEB-2010
AK102	33446.1	01-MAR-2009
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

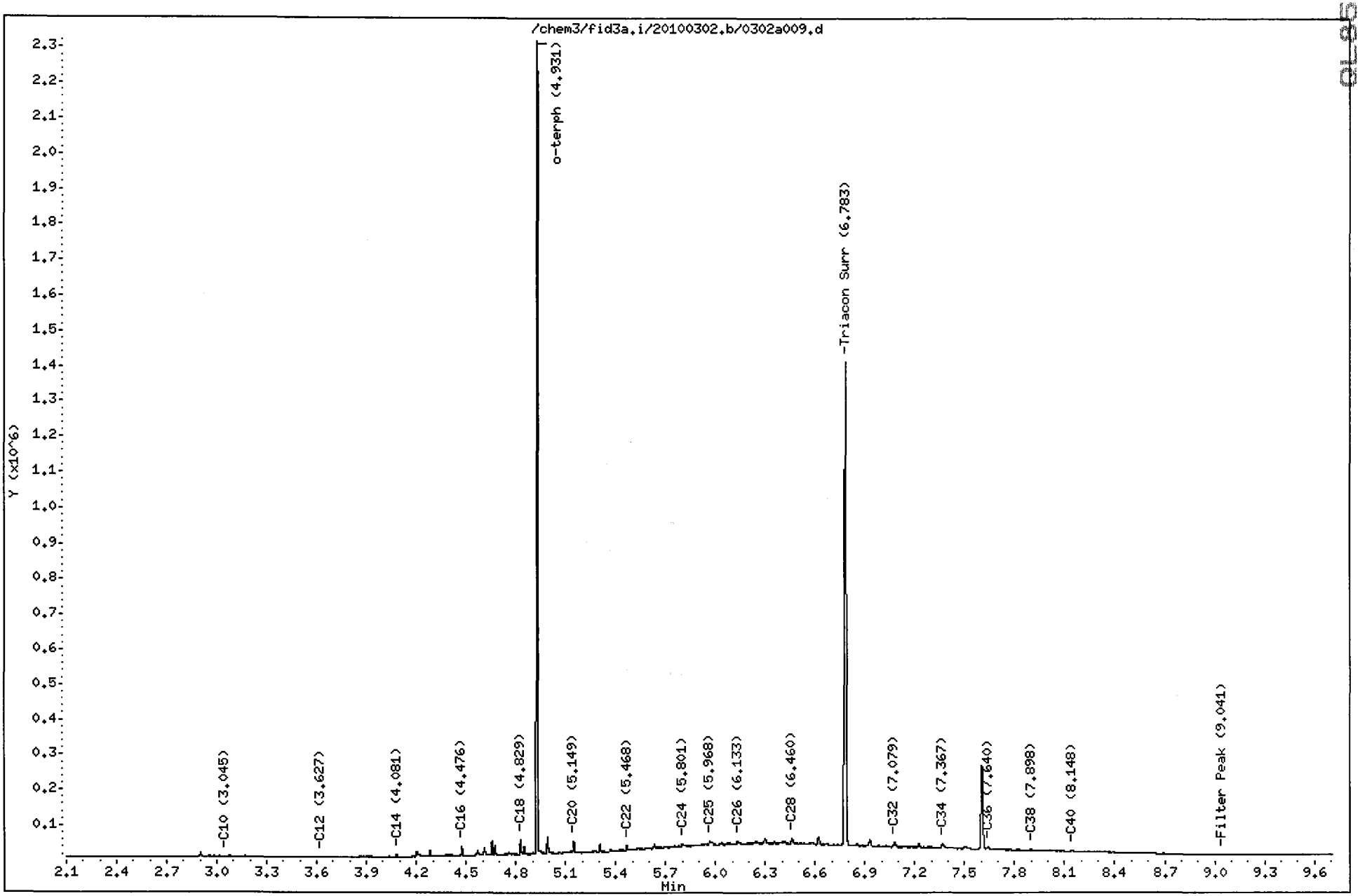
Data File: /chem3/fid3a.i/20100302.b/0302a009.d
Date : 02-MAR-2010 20:44
Client ID: CB31A022610GRAB
Sample Info: QL85A

Column phase: ZB1-HT

Instrument: fid3a.i

Operator: ms
Column diameter: 0.25

QL85 : 99578



3/3/10

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20100302.b/0302a012.d
Method: /chem3/fid3a.i/20100302.b/ftphfid3a.m
Instrument: fid3a.i
Operator: ms
Report Date: 03/03/2010
Macro: FID:3A030110

ARI ID: QL85B
Client ID: CB4857022610GRAB
Injection: 02-MAR-2010 21:36
Dilution Factor: 1

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.459	0.002	12258	14373	GAS (Tol-C12)	353283	11
C8	1.829	-0.001	1890	188	DIESEL (C12-C24)	883837	30
C10	3.046	0.001	2152	1701	M.OIL (C24-C38)	2151980	96
C12	3.629	0.001	1839	1329	AK-102 (C10-C25)	1112091	33
C14	4.081	0.000	4465	2686	AK-103 (C25-C36)	1911925	214
C16	4.475	-0.001	15305	11995	OR.DIES (C10-C28)	1795794	85
C18	4.828	-0.001	22710	15449	OR.MOIL (C28-C40)	1555403	138
C20	5.149	-0.001	22261	18549	JET-A (C10-C18)	420039	27
C22	5.468	-0.001	16114	16471			
C24	5.800	0.000	18297	4975	STODDARD (C8-C12)	289907	10
C25	5.968	0.000	21917	13873			
C26	6.132	-0.002	22280	17070			
C28	6.460	-0.002	25350	24048			
C32	7.081	-0.001	23057	37144			
C34	7.369	0.001	18006	10902			
Filter Peak	9.040	-0.001	6653	265			
C36	7.640	-0.001	15386	14804	CREOSOT (C8-C22)	885822	138
C38	7.901	0.001	12343	7527			
C40	8.147	0.000	11337	4020	BUNKERC (C10-C38)	3199519	370

Range Times: NW Diesel(3.678 - 5.851) NW Gas(1.407 - 3.678) NW M.Oil(5.851 - 7.950)
AK102(2.995 - 5.918) AK103(5.918 - 7.691) Jet A(2.995 - 4.879)

Surrogate	Area	Amount	%Rec
o-Terphenyl	830600	21.5	47.8
Triacontane	799950	22.8	50.6

> 41% OK

Analyte	RF	Curve Date
o-Terph Surr	38638.9	01-MAR-2010
Triacon Surr	35130.8	24-FEB-2010
Gas	31379.9	03-DEC-2009
Diesel	29779.8	01-MAR-2009
Motor Oil	22441.3	24-FEB-2010
AK102	33446.1	01-MAR-2009
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

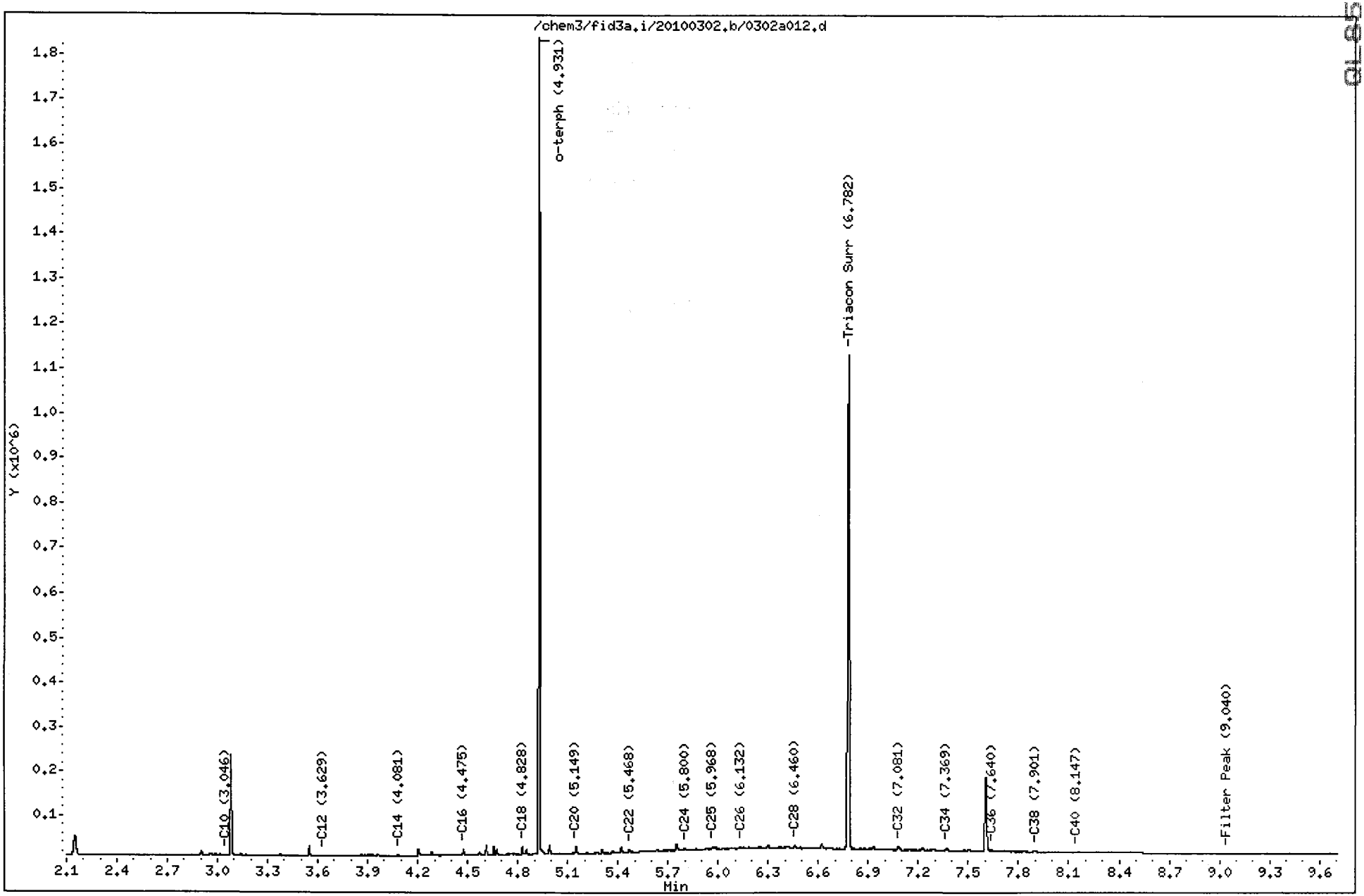
Data File: /chem3/fid3a.i/20100302.b/0302a012.d
Date : 02-MAR-2010 21:36
Client ID: CB4857022610GRAB
Sample Info: QL85B

Column phase: ZB1-HT

Instrument: fid3a.i

Operator: ms
Column diameter: 0.25

QL85 : 00588



Mar 3/11/10

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20100302.b/0302a013.d
Method: /chem3/fid3a.i/20100302.b/ftphfid3a.m
Instrument: fid3a.i
Operator: ms
Report Date: 03/03/2010
Macro: FID:3A030110

ARI ID: QL85C
Client ID: CB1022610GRAB
Injection: 02-MAR-2010 21:53
Dilution Factor: 1

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.460	0.003	7409	9559	GAS (Tol-C12)	184608	6
C8	1.831	0.001	1891	526	DIESEL (C12-C24)	155399	5
C10	3.046	0.001	2328	1853	M.OIL (C24-C38)	489695	22
C12	3.628	0.001	834	373	AK-102 (C10-C25)	207844	6
C14	4.081	0.000	854	679	AK-103 (C25-C36)	423152	47
C16	4.476	0.000	1217	800	OR.DIES (C10-C28)	320289	15
C18	4.826	-0.003	1942	1595	OR.MOIL (C28-C40)	432865	38
C20	5.150	0.000	1662	933	JET-A (C10-C18)	112157	7
C22	5.468	-0.001	1909	626			
C24	5.801	0.000	2773	651	STODDARD (C8-C12)	124863	5
C25	5.966	-0.002	5737	5333			
C26	6.134	0.000	3217	640			
C28	6.462	0.000	3960	2313			
C32	7.082	0.001	5818	7981			
C34	7.372	0.003	4298	5723			
Filter Peak	9.042	0.000	5757	575			
C36	7.649	0.008	4194	502	CREOSOT (C8-C22)	236913	37
C38	7.899	-0.001	3842	994			
C40	8.147	0.000	4844	386	BUNKERC (C10-C38)	686600	79

Range Times: NW Diesel(3.678 - 5.851) NW Gas(1.407 - 3.678) NW M.Oil(5.851 - 7.950)
AK102(2.995 - 5.918) AK103(5.918 - 7.691) Jet A(2.995 - 4.879)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1129576	29.2	65.0
Triacontane	1091283	31.1	69.0

Analyte	RF	Curve Date
o-Terph Surr	38638.9	01-MAR-2010
Triacon Surr	35130.8	24-FEB-2010
Gas	31379.9	03-DEC-2009
Diesel	29779.8	01-MAR-2009
Motor Oil	22441.3	24-FEB-2010
AK102	33446.1	01-MAR-2009
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

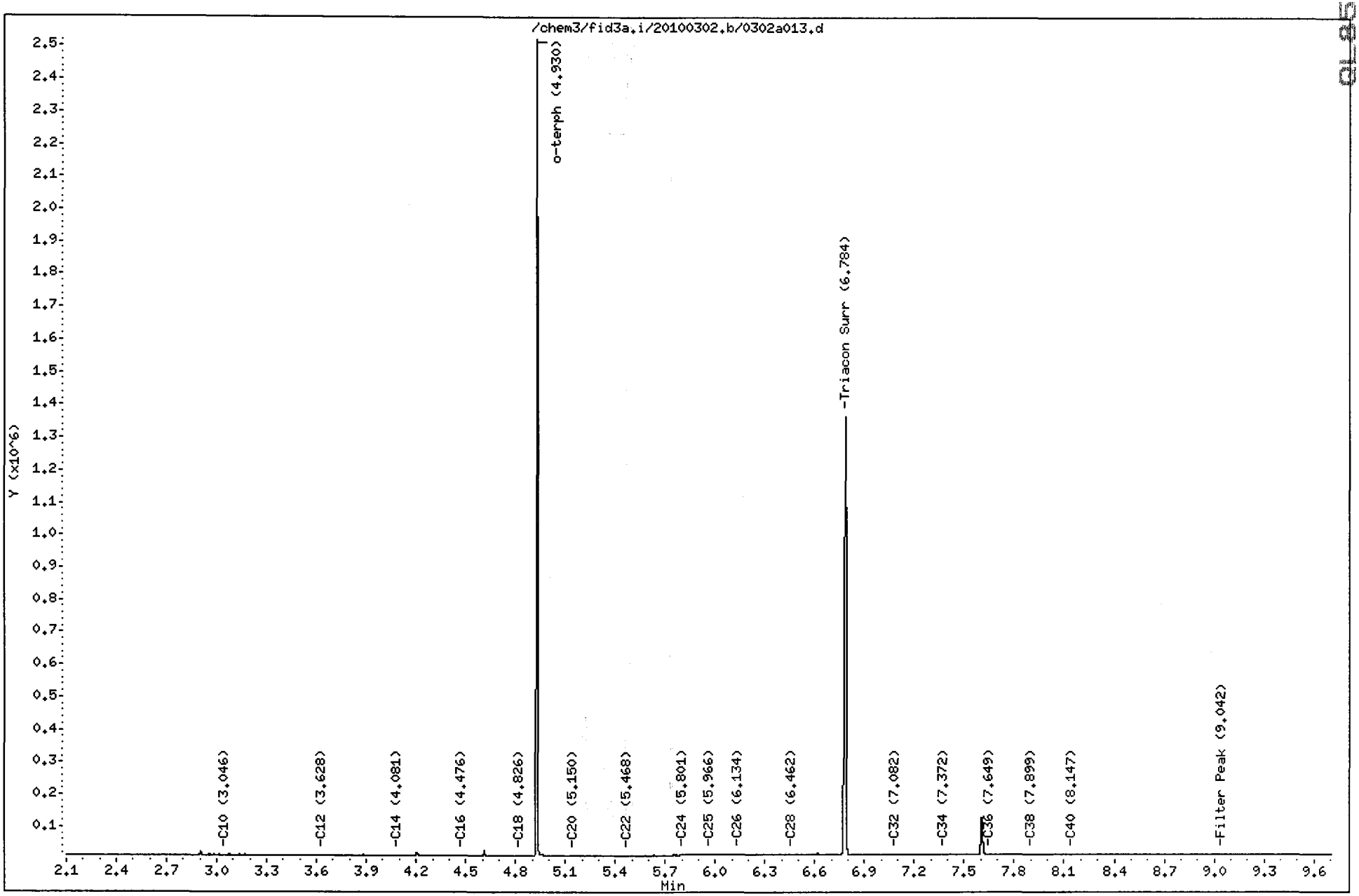
Data File: /chem3/fid3a.i/20100302.b/0302a013.d
Date : 02-MAR-2010 21:53
Client ID: CB1022610GRAB
Sample Info: QL85C

Column phase: ZB1-HT

Instrument: fid3a.i

Operator: ms
Column diameter: 0.25

QL85 99682



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20100302.b/0302a014.d
Method: /chem3/fid3a.i/20100302.b/ftphfid3a.m
Instrument: fid3a.i
Operator: ms
Report Date: 03/03/2010
Macro: FID:3A030110

ARI ID: QL85D
Client ID: CB102022610GRAB
Injection: 02-MAR-2010 22:10
Dilution Factor: 1

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.458	0.001	9275	9917	GAS (Tol-C12)	192654	6
C8	1.831	0.001	1936	346	DIESEL (C12-C24)	161389	5
C10	3.045	0.000	2387	1235	M.OIL (C24-C38)	554405	25
C12	3.627	0.000	936	460	AK-102 (C10-C25)	216035	6
C14	4.081	0.000	819	351	AK-103 (C25-C36)	488723	55
C16	4.476	0.000	2369	1454	OR.DIES (C10-C28)	346551	16
C18	4.826	-0.003	1638	1466	OR.MOIL (C28-C40)	476426	42
C20	5.150	0.000	1777	572	JET-A (C10-C18)	112203	7
C22	5.468	-0.001	2318	759			
C24	5.798	-0.003	4970	4956	STODDARD (C8-C12)	128305	5
C25	5.966	-0.002	10348	8888			
C26	6.132	-0.002	8522	9064			
C28	6.461	-0.001	8265	8838			
C32	7.082	0.000	6228	9279			
C34	7.371	0.003	4034	6295			
Filter Peak	9.042	0.000	5640	1125			
C36	7.650	0.009	4278	427	CREOSOT (C8-C22)	243275	38
C38	7.899	-0.001	3803	833			
C40	8.147	0.000	4710	657	BUNKERC (C10-C38)	758912	88

Range Times: NW Diesel(3.678 - 5.851) NW Gas(1.407 - 3.678) NW M.Oil(5.851 - 7.950)
AK102(2.995 - 5.918) AK103(5.918 - 7.691) Jet A(2.995 - 4.879)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1208604	31.3	69.5
Triacontane	1177980	33.5	74.5

Analyte	RF	Curve Date
o-Terph Surr	38638.9	01-MAR-2010
Triacon Surr	35130.8	24-FEB-2010
Gas	31379.9	03-DEC-2009
Diesel	29779.8	01-MAR-2009
Motor Oil	22441.3	24-FEB-2010
AK102	33446.1	01-MAR-2009
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

Data File: /chem3/fid3a.i/20100302.b/0302a014.d

Date : 02-MAR-2010 22:10

Client ID: CB102022610GRAB

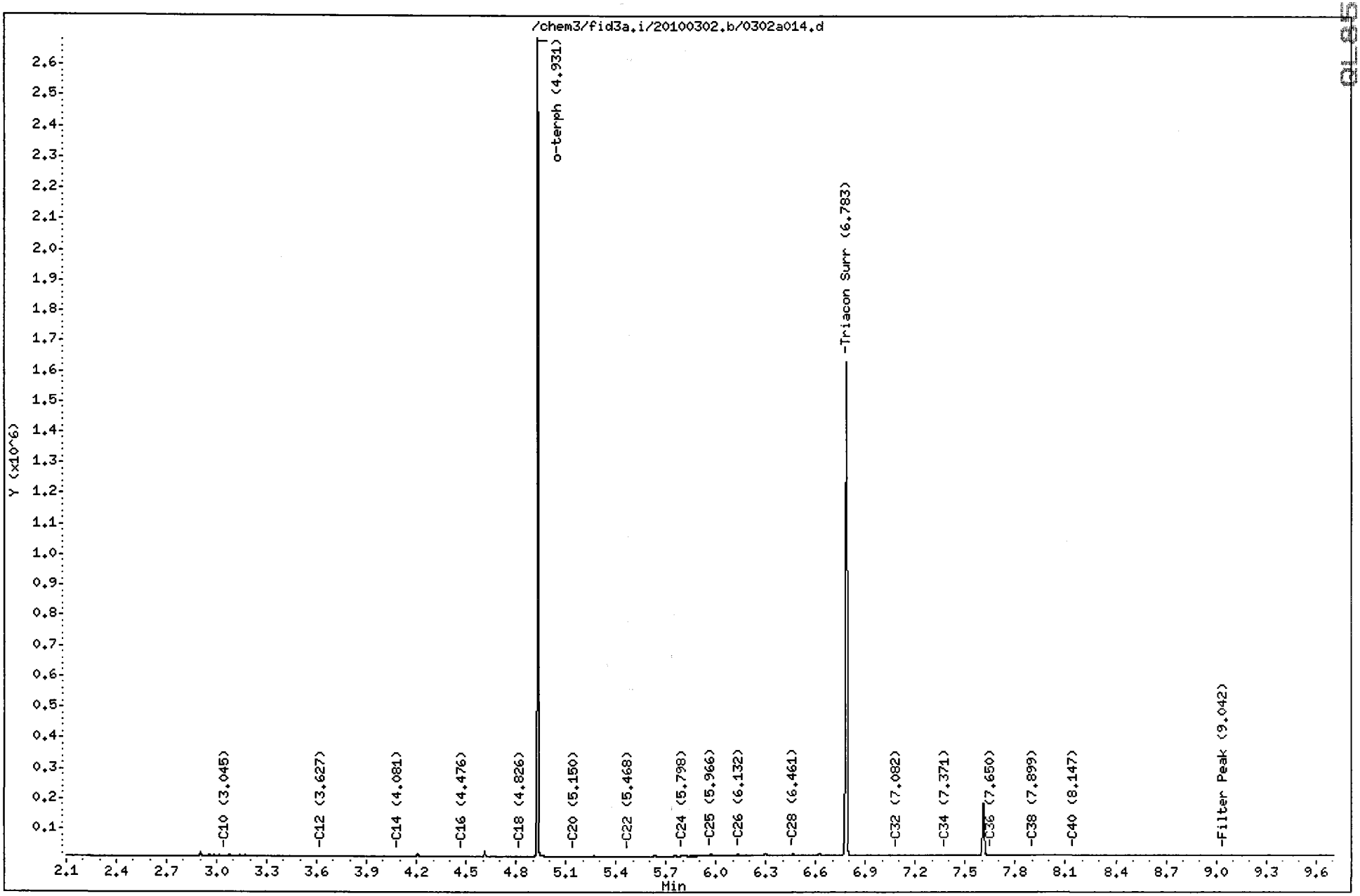
Sample Info: QL85D

Instrument: fid3a.i

Operator: ms

Column phase: ZB1-HT

Column diameter: 0.25



ANALYTICAL RESOURCES INCORPORATED

TOTAL DIESEL RANGE HYDROCARBONS-EXTRACTION REPORT

ARI Job: QL85
Project: Lora Lakes Apartments
POS-LLA

Matrix: Water
Date Received: 02/26/10

ARI ID	Client ID	Samp Amt	Final Vol	Prep Date
10-4943-030110MB1	Method Blank	500 mL	1.00 mL	03/01/10
10-4943-030110LCS1	Lab Control	500 mL	1.00 mL	03/01/10
10-4943-QL85A	CB31A022610GRAB	500 mL	1.00 mL	03/01/10
10-4943-QL85AMS	CB31A022610GRAB	500 mL	1.00 mL	03/01/10
10-4943-QL85AMSD	CB31A022610GRAB	500 mL	1.00 mL	03/01/10
10-4944-QL85B	CB4857022610GRAB	500 mL	1.00 mL	03/01/10
10-4945-QL85C	CB1022610GRAB	500 mL	1.00 mL	03/01/10
10-4946-QL85D	CB102022610GRAB	500 mL	1.00 mL	03/01/10

TPHD Analysis
Standard Raw Data

prepared
for

Floyd-Snider

Project: Lora Lakes Apartments, POS-LLA

ARI JOB NO: QL85

prepared
by

Analytical Resources, Inc.

6a

NW DIESEL INITIAL CALIBRATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: FLOYD-SNIDER

Instrument: FID3A.I Project: LORA LAKE APARTMENTS

Calibration Date: 01-MAR-2010 SDG No.: QL85

Diesel Range	RF1 50	RF2 100	RF3 250	RF4 500	RF5 1000	RF6 2500	Ave RF	%RSD
WA Diesel	33908	30423	28632	29582	27925	28210	29780	7.5
AK Diesel	38446	34293	32133	33102	31204	31499	33446	8.1
OR Diesel	39603	34981	32522	33421	31468	31748	33957	9.0
o-Terph	41201	38487	37824	38895	37333	38093	38639	3.5

<- Indicates %RSD outside limits
Surrogate areas are not included in Diesel RF calculation.

Quant Ranges : WA Diesel C12-C24 (3.628-5.800)
AK Diesel C10-C25 (3.044-5.968)
OR Diesel C10-C28 (3.044-6.463)

Calibration Files	Analysis Time
0301a007.d	01-MAR-2010 16:55
0301a008.d	01-MAR-2010 17:12
0301a009.d	01-MAR-2010 17:30
0301a010.d	01-MAR-2010 17:47
0301a011.d	01-MAR-2010 18:04
0301a012.d	01-MAR-2010 18:22

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 17-JAN-2009 14:16
End Cal Date : 01-MAR-2010 18:22
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /chem3/fid3a.i/20100301.b/ftphfid3a.m
Cal Date : 03-Mar-2010 13:24 marys
Curve Type : Average

Calibration File Names:
Level 1: /chem3/fid3a.i/20100301.b/0301a005.d
Level 2: /chem3/fid3a.i/20100301.b/0301a007.d
Level 3: /chem3/fid3a.i/20100301.b/0301a008.d
Level 4: /chem3/fid3a.i/20100301.b/0301a009.d
Level 5: /chem3/fid3a.i/20100301.b/0301a010.d
Level 6: /chem3/fid3a.i/20100301.b/0301a011.d
Level 7: /chem3/fid3a.i/20100301.b/0301a012.d
Level 8: /chem3/fid3a.i/20100224.b/0224a047.d
Level 9: /chem3/fid3a.i/20100224.b/0224a048.d
Level 10: /chem3/fid3a.i/20100224.b/0224a049.d
Level 11: /chem3/fid3a.i/20100224.b/0224a050.d
Level 12: /chem3/fid3a.i/20100224.b/0224a051.d
Level 13: /chem3/fid3a.i/20100224.b/0224a052.d

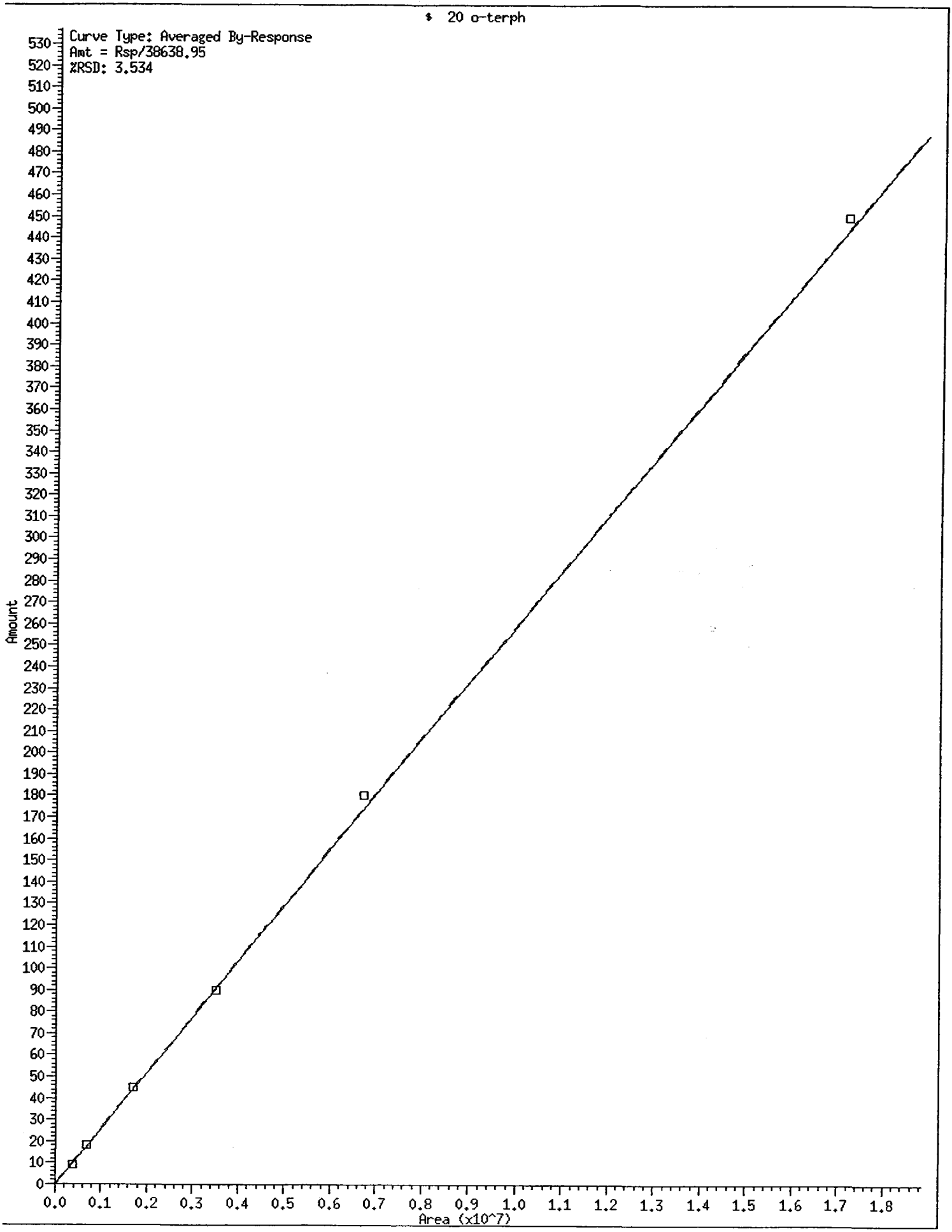
Compound	0.000e+00 Level 1	0.000e+00 Level 2	0.000e+00 Level 3	0.000e+00 Level 4	0.000e+00 Level 5	0.000e+00 Level 6	RRF	% RSD	
	0.000e+00 Level 7	0.000e+00 Level 8	0.000e+00 Level 9	0.000e+00 Level 10	0.000e+00 Level 11	0.000e+00 Level 12			
	0.000e+00 Level 13								
1 Toluene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++						+++++	+++++	<-
2 C8	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++						+++++	+++++	<-

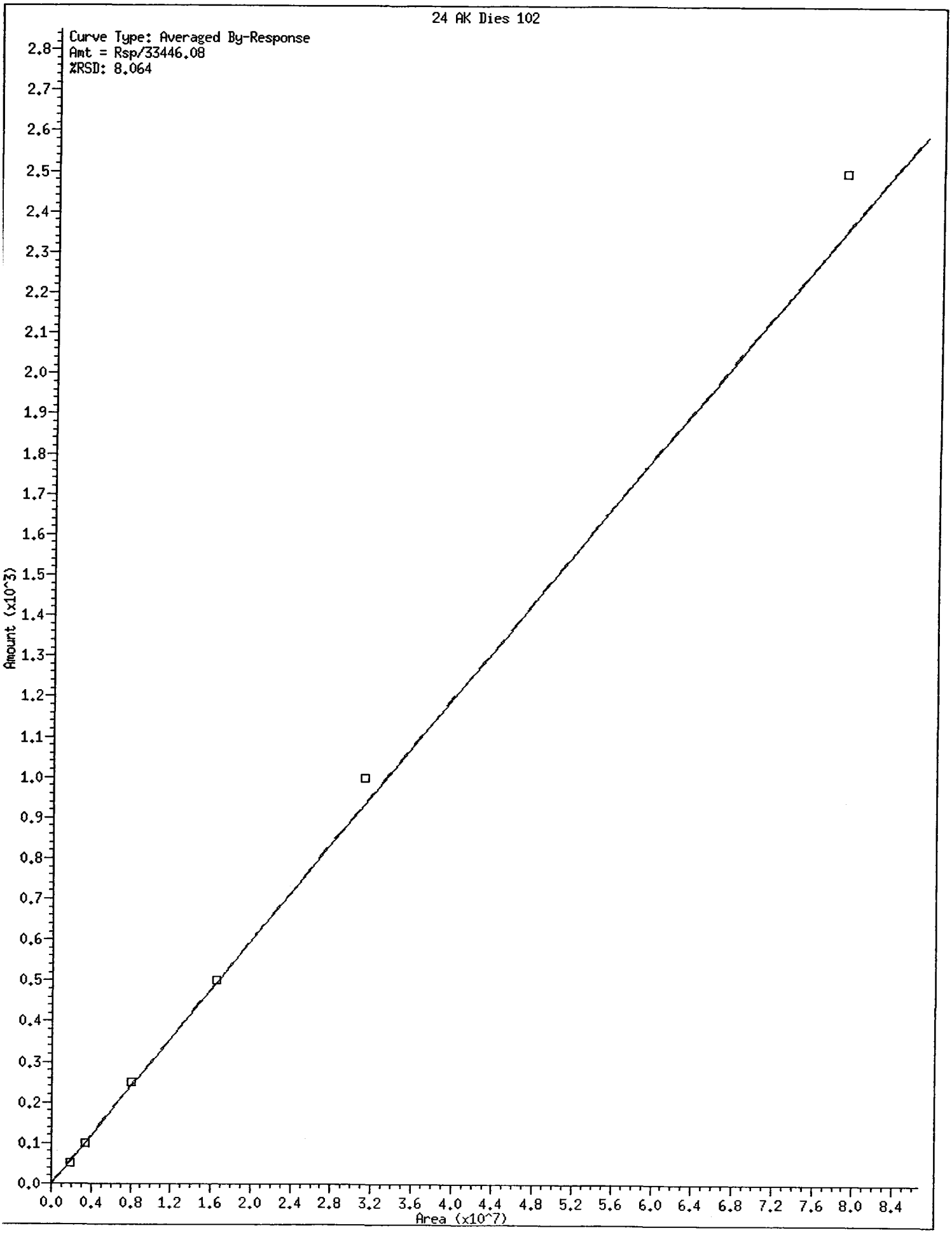
Analytical Resources, Inc.

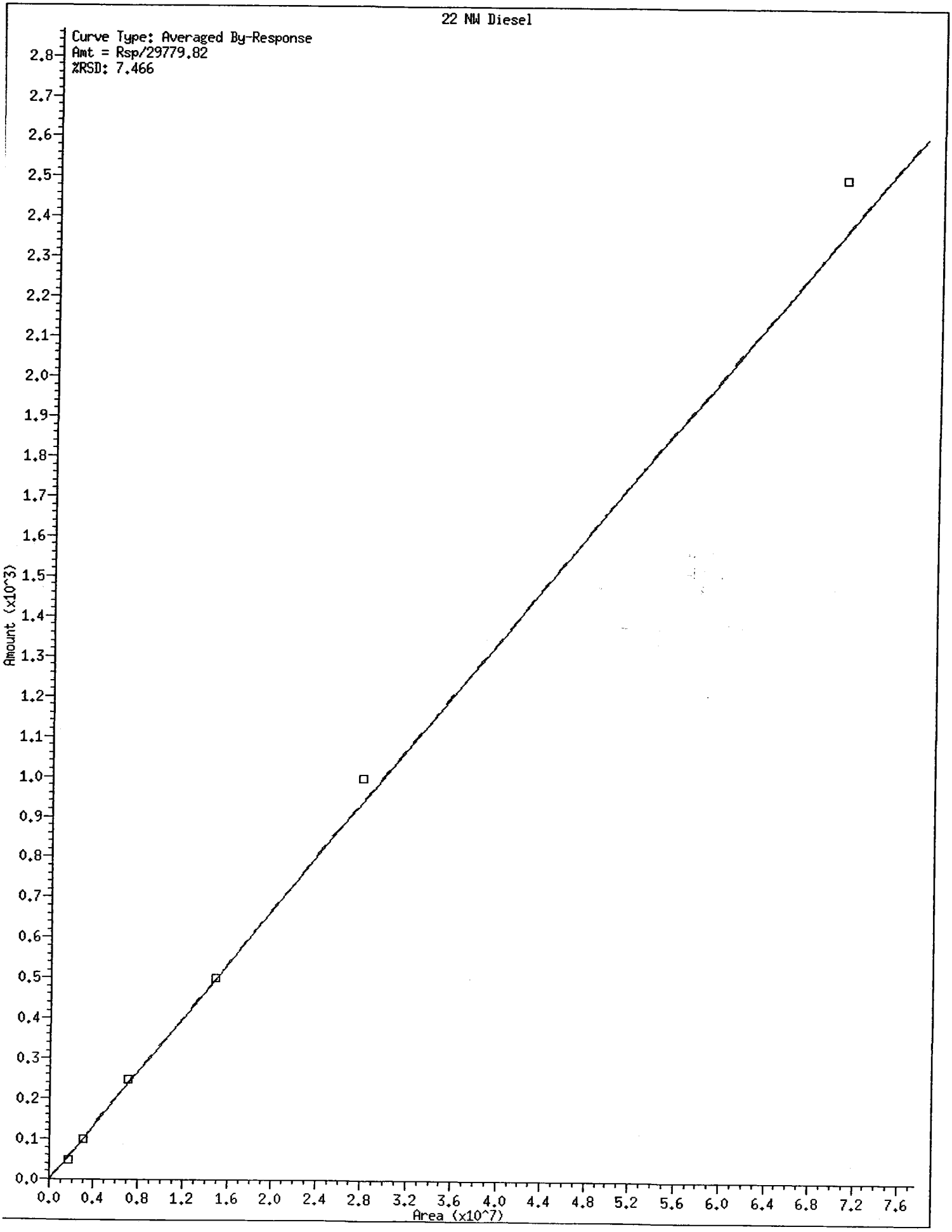
INITIAL CALIBRATION DATA

Start Cal Date : 17-JAN-2009 14:16
End Cal Date : 01-MAR-2010 18:22
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /chem3/fid3a.i/20100301.b/ftphfid3a.m
Cal Date : 03-Mar-2010 13:24 marys
Curve Type : Average

Compound	0.000e+00 Level 1	0.000e+00 Level 2	0.000e+00 Level 3	0.000e+00 Level 4	0.000e+00 Level 5	0.000e+00 Level 6	0.000e+00 Level 7	0.000e+00 Level 8	0.000e+00 Level 9	0.000e+00 Level 10	0.000e+00 Level 11	0.000e+00 Level 12	0.000e+00 Level 13	RRF	% RSD	
45 ak 103	+++++	3362	1337	710	391	163	0.00180	+++++	+++++	+++++	+++++	+++++	+++++	994	126.045	<-
46 azdiesel	+++++	0.08000	0.08000	0.02000	0.01000	0.00600	0.00480	+++++	+++++	+++++	+++++	+++++	+++++	0.03347	108.881	<-
$ 20 o-terph	+++++	41201	38487	37824	38895	37333	38093	+++++	+++++	+++++	+++++	+++++	+++++	38639	3.534	
$ 21 Triacon Surr	+++++	+++++	+++++	+++++	+++++	+++++	+++++	34547	35939	36233	37327	33871	32867	35131	4.719	


20 o-terph
Curve Type: Averaged By-Response
Amt = Rsp/38638.95
%RSD: 3.534
Amount
Area (x10^7)


24 AK Dies 102
Curve Type: Averaged By-Response
Amt = Rsp/33446.08
%RSD: 8.064
Amount (x10^3)
2.8
2.7
2.6
2.5
2.4
2.3
2.2
2.1
2.0
1.9
1.8
1.7
1.6
1.5
1.4
1.3
1.2
1.1
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
0.0 0.4 0.8 1.2 1.6 2.0 2.4 2.8 3.2 3.6 4.0 4.4 4.8 5.2 5.6 6.0 6.4 6.8 7.2 7.6 8.0 8.4
Area (x10^7)


22 NW Diesel
Curve Type: Averaged By-Response
Amt = Rsp/29779.82
%RSD: 7.466
Amount (x10^3)
Area (x10^7)
0.0 0.4 0.8 1.2 1.6 2.0 2.4 2.8 3.2 3.6 4.0 4.4 4.8 5.2 5.6 6.0 6.4 6.8 7.2 7.6
0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 2.0 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8

TPH ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC Client: ARI

SDG No.: 20100301 Project: DIESEL CURVE

Instrument ID: FID3A GC Column: ZB1-HT

Run Date: 03/01/10

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, AND STANDARDS, IS GIVEN BELOW:

SURROGATE RT FROM DAILY STANDARD
TERPH: 4.93 TRIAC: 6.78

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TERPH RT #	TRIAC RT #
01	RT	RT	03/01/10	1620	4.93	6.78
02	IB	IB	03/01/10	1637	4.93	6.79
03	DIESEL 50	DIESEL 50	03/01/10	1655	4.93	6.78
04	DIESEL 100	DIESEL 100	03/01/10	1712	4.93	6.78
05	DIESEL 250	DIESEL 250	03/01/10	1730	4.93	6.78
06	DIESEL 500	DIESEL 500	03/01/10	1747	4.94	6.78
07	DIESEL 1000	DIESEL 1000	03/01/10	1804	4.94	6.78
08		DIESEL 2500	03/01/10	1822	4.96	6.78

QC LIMITS

TERPH = o-terph (+/- 0.05 MINUTES)
TRIAC = Triacon Surr (+/- 0.05 MINUTES)

* Values outside of QC limits.

FORM VIII TPH

ms 3/3/10

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20100301.b/0301a005.d
Method: /chem3/fid3a.i/20100301.b/ftphfid3a.m
Instrument: fid3a.i
Operator: ms
Report Date: 03/03/2010
Macro: FID:3A030110

ARI ID: RT
Client ID: RT
Injection: 01-MAR-2010 16:20
Dilution Factor: 1

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.450	0.000	835375	689111	GAS (Tol-C12)	2215453	71
C8	1.823	0.000	316809	431756	DIESEL (C12-C24)	2735795	92
C10	3.044	0.000	942798	435389	M.OIL (C24-C38)	3597362	160
C12	3.628	0.000	1067042	422469	AK-102 (C10-C25)	3641002	109
C14	4.081	0.000	1013546	427628	AK-103 (C25-C36)	3099025	347
C16	4.476	0.000	945040	422496	OR.DIES (C10-C28)	5199165	247
C18	4.828	0.000	956977	436315	OR.MOIL (C28-C40)	2567952	228
C20	5.149	0.000	906469	441133	JET-A (C10-C18)	2261330	143
C22	5.468	0.000	782999	442869			
C24	5.800	0.000	699853	450038	STODDARD (C8-C12)	1483278	54
C25	5.968	0.000	944856	621974			
C26	6.133	0.000	725211	454472			
C28	6.463	0.000	651551	453990			
C32	7.082	0.000	610208	466586			
C34	7.368	0.000	593791	465718			
Filter Peak	9.041	0.000	10302	1440			
C36	7.641	0.000	555499	480690	CREOSOT (C8-C22)	3754366	587
C38	7.902	0.000	497204	440350			
C40	8.149	0.000	475999	420523	BUNKERC (C10-C38)	7234538	837

Range Times: NW Diesel(3.678 - 5.850) NW Gas(1.400 - 3.678) NW M.Oil(5.850 - 7.952)
AK102(2.994 - 5.918) AK103(5.918 - 7.691) Jet A(2.994 - 4.878)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1701138	44.0	97.8
Triacontane	1570957	44.7	99.4

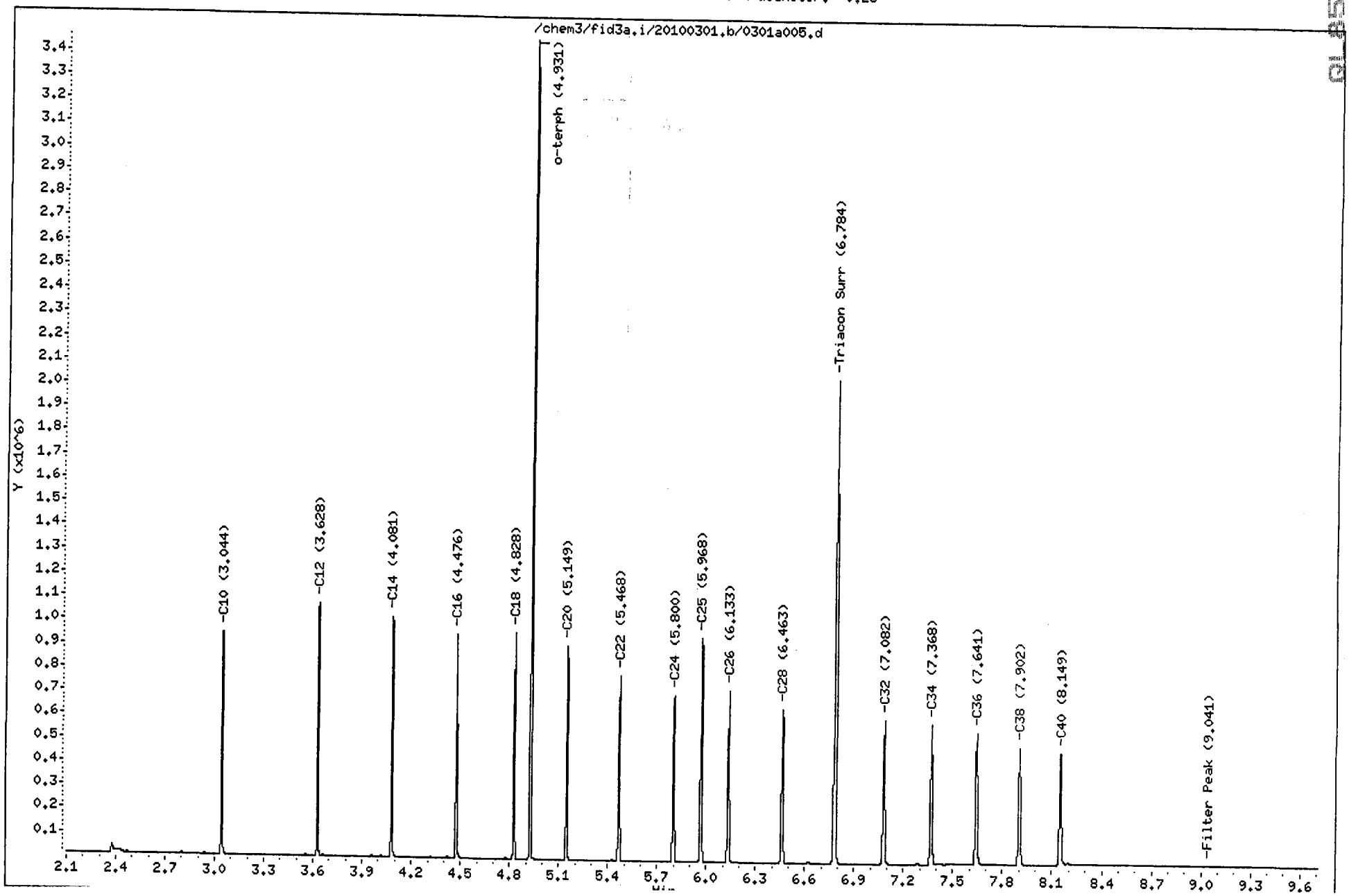
Analyte	RF	Curve Date
o-Terph Surr	38638.9	01-MAR-2010
Triacon Surr	35130.8	24-FEB-2010
Gas	31379.9	03-DEC-2009
Diesel	29779.8	01-MAR-2009
Motor Oil	22441.3	24-FEB-2010
AK102	33446.1	01-MAR-2009
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

Data File: /chem3/fid3a.i/20100301.b/0301a005.d
Date : 01-MAR-2010 16:20
Client ID: RT
Sample Info: RT

Column phase: ZB1-HT

Instrument: fid3a.i

Operator: ms
Column diameter: 0.25



ms 3/3/10

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20100301.b/0301a006.d
Method: /chem3/fid3a.i/20100301.b/ftphfid3a.m
Instrument: fid3a.i
Operator: ms
Report Date: 03/03/2010
Macro: FID:3A030110

ARI ID: IB
Client ID: IB
Injection: 01-MAR-2010 16:37
Dilution Factor: 1

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.451	0.000	3445	1081	GAS (Tol-C12)	161861	5
C8	1.821	-0.002	1592	126	DIESEL (C12-C24)	65524	2
C10	3.043	-0.001	2588	2083	M.OIL (C24-C38)	236186	11
C12	3.627	-0.001	597	106	AK-102 (C10-C25)	99039	3
C14	4.080	-0.001	481	47	AK-103 (C25-C36)	169270	19
C16	4.476	0.001	495	122	OR.DIES (C10-C28)	127006	6
C18	4.827	-0.001	525	224	OR.MOIL (C28-C40)	293559	26
C20	5.150	0.000	606	174	JET-A (C10-C18)	66270	4
C22	5.469	0.001	550	109			
C24	5.799	-0.001	652	89	STODDARD (C8-C12)	110853	4
C25	5.968	0.000	694	176			
C26	6.134	0.000	746	131			
C28	6.461	-0.002	1667	1175			
C32	7.084	0.002	5042	7651			
C34	7.368	0.000	2421	193			
Filter Peak	9.043	0.001	9328	931			
C36	7.641	0.000	3345	265	CREOSOT (C8-C22)	165183	26
C38	7.901	-0.001	4879	680			
C40	8.143	-0.007	6757	538	BUNKERC (C10-C38)	332959	39

Range Times: NW Diesel(3.678 - 5.850) NW Gas(1.400 - 3.678) NW M.Oil(5.850 - 7.952)
AK102(2.994 - 5.918) AK103(5.918 - 7.691) Jet A(2.994 - 4.878)

Surrogate	Area	Amount	%Rec
o-Terphenyl	2189983	56.7	126.0
Triacontane	1619903	46.1	102.5

Analyte	RF	Curve Date
o-Terph Surr	38638.9	01-MAR-2010
Triacon Surr	35130.8	24-FEB-2010
Gas	31379.9	03-DEC-2009
Diesel	29779.8	01-MAR-2009
Motor Oil	22441.3	24-FEB-2010
AK102	33446.1	01-MAR-2009
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

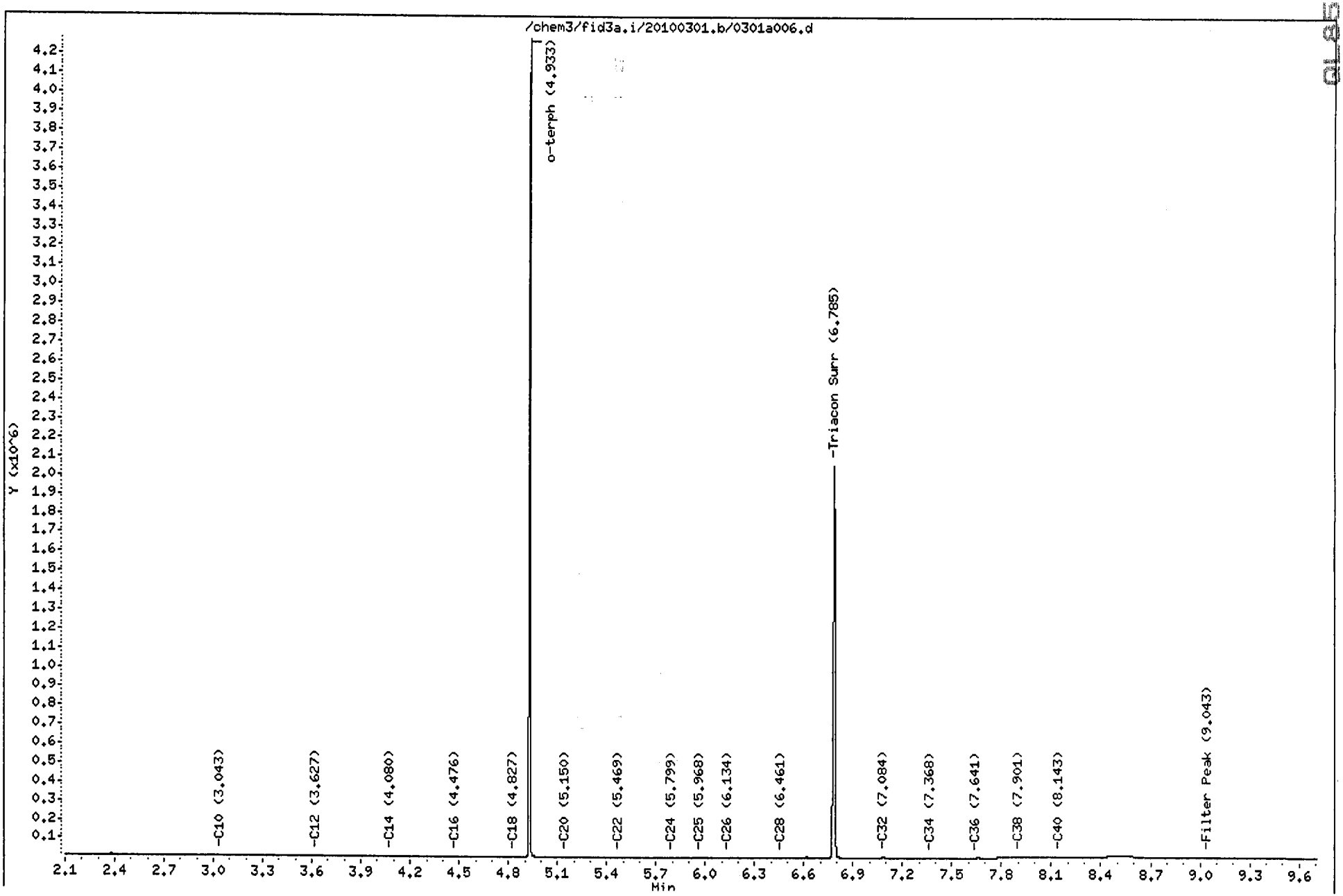
Data File: /chem3/fid3a.i/20100301.b/0301a006.d
Date : 01-MAR-2010 16:37
Client ID: IB
Sample Info: IB

Column phase: ZB1-HT

Instrument: fid3a.i

Operator: ms
Column diameter: 0.25

QL-85-99697



MS 3/31/10

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20100301.b/0301a007.d
Method: /chem3/fid3a.i/20100301.b/ftphfid3a.m
Instrument: fid3a.i
Operator: ms
Report Date: 03/03/2010
Macro: FID:3A030110

ARI ID: DIESEL 50
Client ID: DIESEL 50
Injection: 01-MAR-2010 16:55
Dilution Factor: 1

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.460	0.010	10292	13248	GAS (Tol-C12)	434070	14
C8	1.815	-0.007	2139	619	DIESEL (C12-C24)	1695375	57
C10	3.045	0.001	11484	6392	M.OIL (C24-C38)	316818	14
C12	3.626	-0.001	25529	17533	AK-102 (C10-C25)	1922275	57
C14	4.080	-0.001	44845	26926	AK-103 (C25-C36)	236779	27
C16	4.474	-0.001	82418	52237	OR.DIES (C10-C28)	1980163	94
C18	4.828	0.000	75120	45652	OR.MOIL (C28-C40)	343591	30
C20	5.149	0.000	43470	29095	JET-A (C10-C18)	1386140	87
C22	5.468	-0.001	17003	14460			
C24	5.800	0.000	5409	5974	STODDARD (C8-C12)	368948	13
C25	5.968	0.000	2944	2283			
C26	6.133	0.000	1977	274			
C28	6.463	0.000	1687	398			
C32	7.088	0.007	3606	2783			
C34	7.367	-0.001	3064	792			
Filter Peak	9.040	-0.001	10001	1997			
C36	7.640	-0.001	3840	459	CREOSOT (C8-C22)	1991358	311
C38	7.903	0.002	4999	598			
C40	8.152	0.003	7127	4413	BUNKERC (C10-C38)	2230605	258

Range Times: NW Diesel(3.678 - 5.850) NW Gas(1.400 - 3.678) NW M.Oil(5.850 - 7.952)
AK102(2.994 - 5.918) AK103(5.918 - 7.691) Jet A(2.994 - 4.878)

Surrogate	Area	Amount	%Rec
o-Terphenyl	370811	9.6	21.3
Triacontane	4005	0.1	0.3

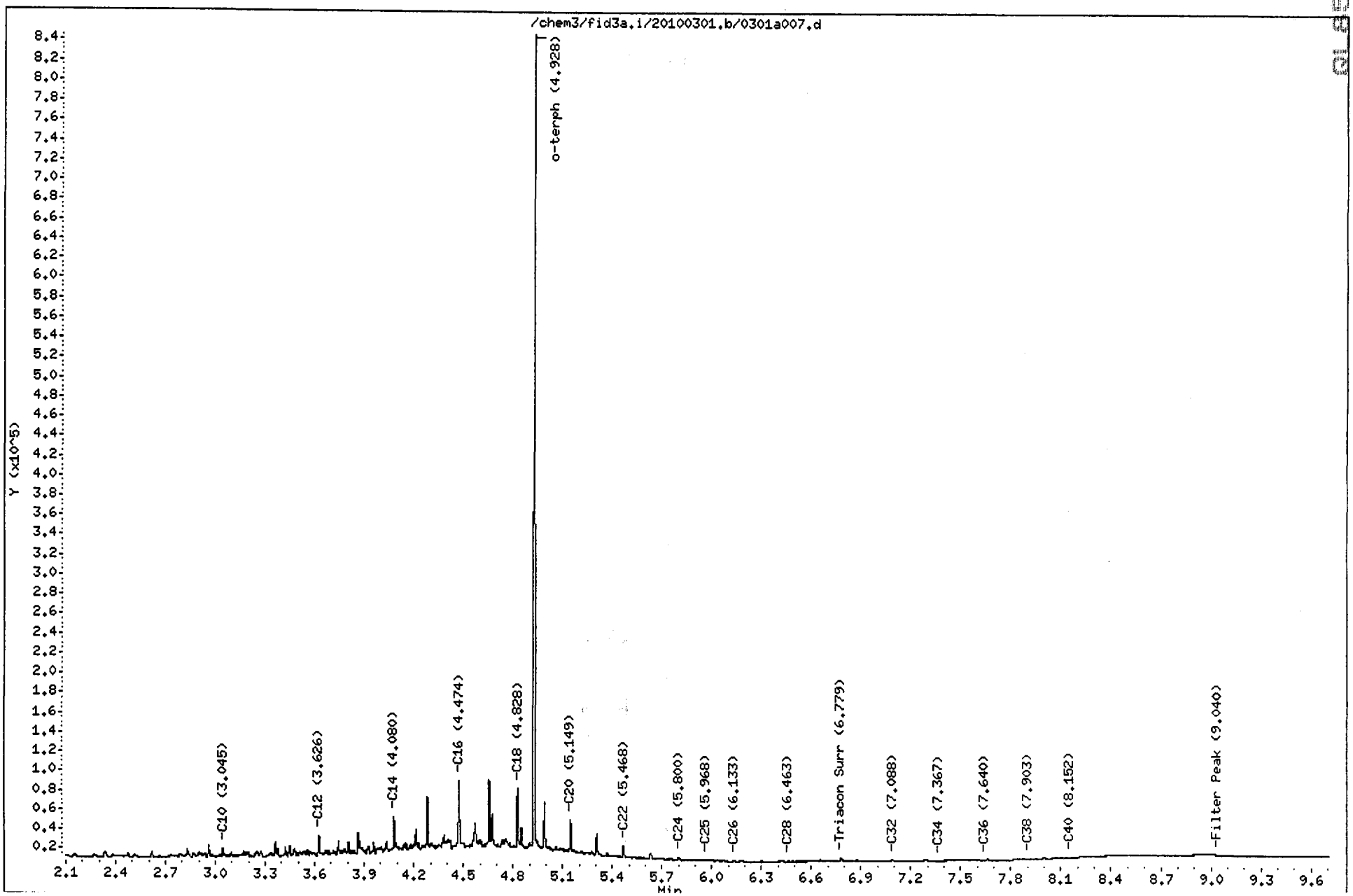
Analyte	RF	Curve Date
o-Terph Surr	38638.9	01-MAR-2010
Triacon Surr	35130.8	24-FEB-2010
Gas	31379.9	03-DEC-2009
Diesel	29779.8	01-MAR-2009
Motor Oil	22441.3	24-FEB-2010
AK102	33446.1	01-MAR-2009
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

Data File: /chem3/fid3a.i/20100301.b/0301a007.d
Date : 01-MAR-2010 16:55
Client ID: DIESEL 50
Sample Info: DIESEL 50

Column phase: ZB1-HT

Instrument: fid3a.i

Operator: ms
Column diameter: 0.25



Ms 3/3/10

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20100301.b/0301a008.d
Method: /chem3/fid3a.i/20100301.b/ftphfid3a.m
Instrument: fid3a.i
Operator: ms
Report Date: 03/03/2010
Macro: FID:3A030110

ARI ID: DIESEL 100
Client ID: DIESEL 100
Injection: 01-MAR-2010 17:12
Dilution Factor: 1

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.460	0.010	11207	13661	GAS (Tol-C12)	634611	20
C8	1.829	0.006	3445	3207	DIESEL (C12-C24)	3042294	102
C10	3.045	0.000	18849	10512	M.OIL (C24-C38)	319454	14
C12	3.627	-0.001	45412	32414	AK-102 (C10-C25)	3429252	103
C14	4.081	0.000	81567	51758	AK-103 (C25-C36)	239276	27
C16	4.475	0.000	153901	103524	OR.DIES (C10-C28)	3498067	166
C18	4.828	0.000	142213	82171	OR.MOIL (C28-C40)	326481	29
C20	5.148	-0.001	79087	53056	JET-A (C10-C18)	2499041	158
C22	5.467	-0.002	33123	26981			
C24	5.799	-0.001	9356	8637	STODDARD (C8-C12)	568247	21
C25	5.966	-0.002	4716	5068			
C26	6.133	-0.001	2599	3438			
C28	6.464	0.002	1645	262			
C32	7.087	0.005	3350	2351			
C34	7.368	0.000	2919	521			
Filter Peak	9.043	0.001	8969	1969			
C36	7.642	0.001	3688	367	CREOSOT (C8-C22)	3489238	546
C38	7.903	0.001	4813	1248			
C40	8.151	0.002	6910	3888	BUNKERC (C10-C38)	3737880	432

Range Times: NW Diesel(3.678 - 5.850) NW Gas(1.400 - 3.678) NW M.Oil(5.850 - 7.952)
AK102(2.994 - 5.918) AK103(5.918 - 7.691) Jet A(2.994 - 4.878)

Surrogate	Area	Amount	%Rec
o-Terphenyl	692773	17.9	39.8
Triacontane	6924	0.2	0.4

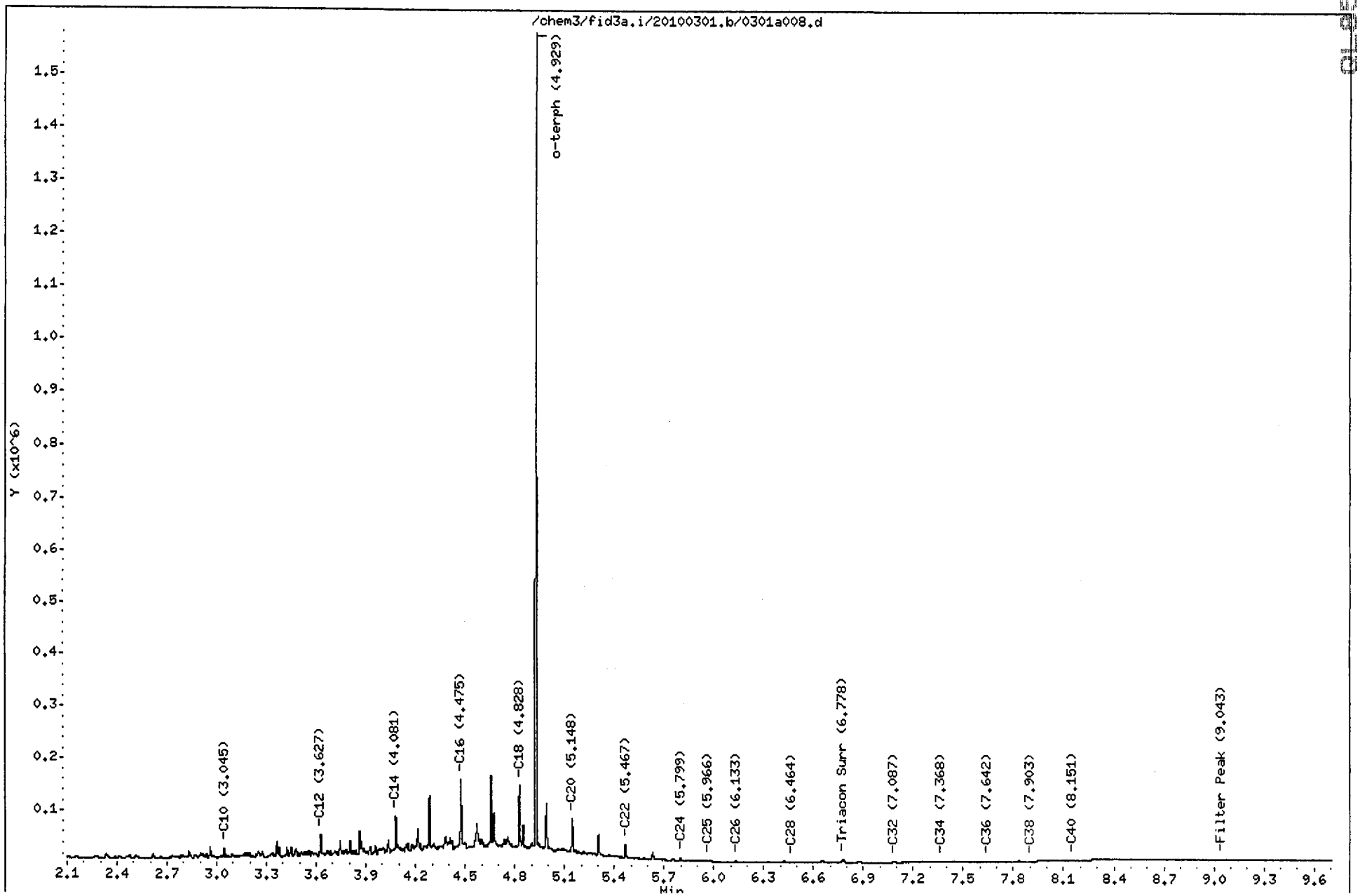
Analyte	RF	Curve Date
o-Terph Surr	38638.9	01-MAR-2010
Triacon Surr	35130.8	24-FEB-2010
Gas	31379.9	03-DEC-2009
Diesel	29779.8	01-MAR-2009
Motor Oil	22441.3	24-FEB-2010
AK102	33446.1	01-MAR-2009
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

Data File: /chem3/fid3a.i/20100301.b/0301a008.d
Date : 01-MAR-2010 17:12
Client ID: DIESEL 100
Sample Info: DIESEL 100

Column phase: ZB1-HT

Instrument: fid3a.i

Operator: ms
Column diameter: 0.25



Ms 3/3/10

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20100301.b/0301a009.d
Method: /chem3/fid3a.i/20100301.b/ftphfid3a.m
Instrument: fid3a.i
Operator: ms
Report Date: 03/03/2010
Macro: FID:3A030110

ARI ID: DIESEL 250
Client ID: DIESEL 250
Injection: 01-MAR-2010 17:30
Dilution Factor: 1

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.445	-0.005	4049	323	GAS (Tol-C12)	1273473	41
C8	1.833	0.010	5498	6808	DIESEL (C12-C24)	7157993	240
C10	3.046	0.002	44273	23114	M.OIL (C24-C38)	350261	16
C12	3.627	-0.001	112546	76743	AK-102 (C10-C25)	8033359	240
C14	4.081	0.000	202027	116103	AK-103 (C25-C36)	262868	29
C16	4.476	0.000	358170	236610	OR.DIES (C10-C28)	8130419	386
C18	4.829	0.001	334168	199746	OR.MOIL (C28-C40)	316119	28
C20	5.150	0.000	194652	121009	JET-A (C10-C18)	5857128	370
C22	5.468	0.000	79921	65871			
C24	5.800	0.000	23537	19592	STODDARD (C8-C12)	1185735	43
C25	5.967	-0.001	10627	11790			
C26	6.134	0.001	4986	5600			
C28	6.462	-0.001	2012	476			
C32	7.087	0.005	3262	3678			
C34	7.368	-0.001	2872	734			
Filter Peak	9.042	0.001	8473	846			
C36	7.644	0.002	3657	1012	CREOSOT (C8-C22)	8074467	1262
C38	7.902	0.000	4719	564			
C40	8.151	0.002	6663	1583	BUNKERC (C10-C38)	8361712	967

Range Times: NW Diesel(3.678 - 5.850) NW Gas(1.400 - 3.678) NW M.Oil(5.850 - 7.952)
AK102(2.994 - 5.918) AK103(5.918 - 7.691) Jet A(2.994 - 4.878)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1702067	44.1	97.9
Triacontane	6952	0.2	0.4

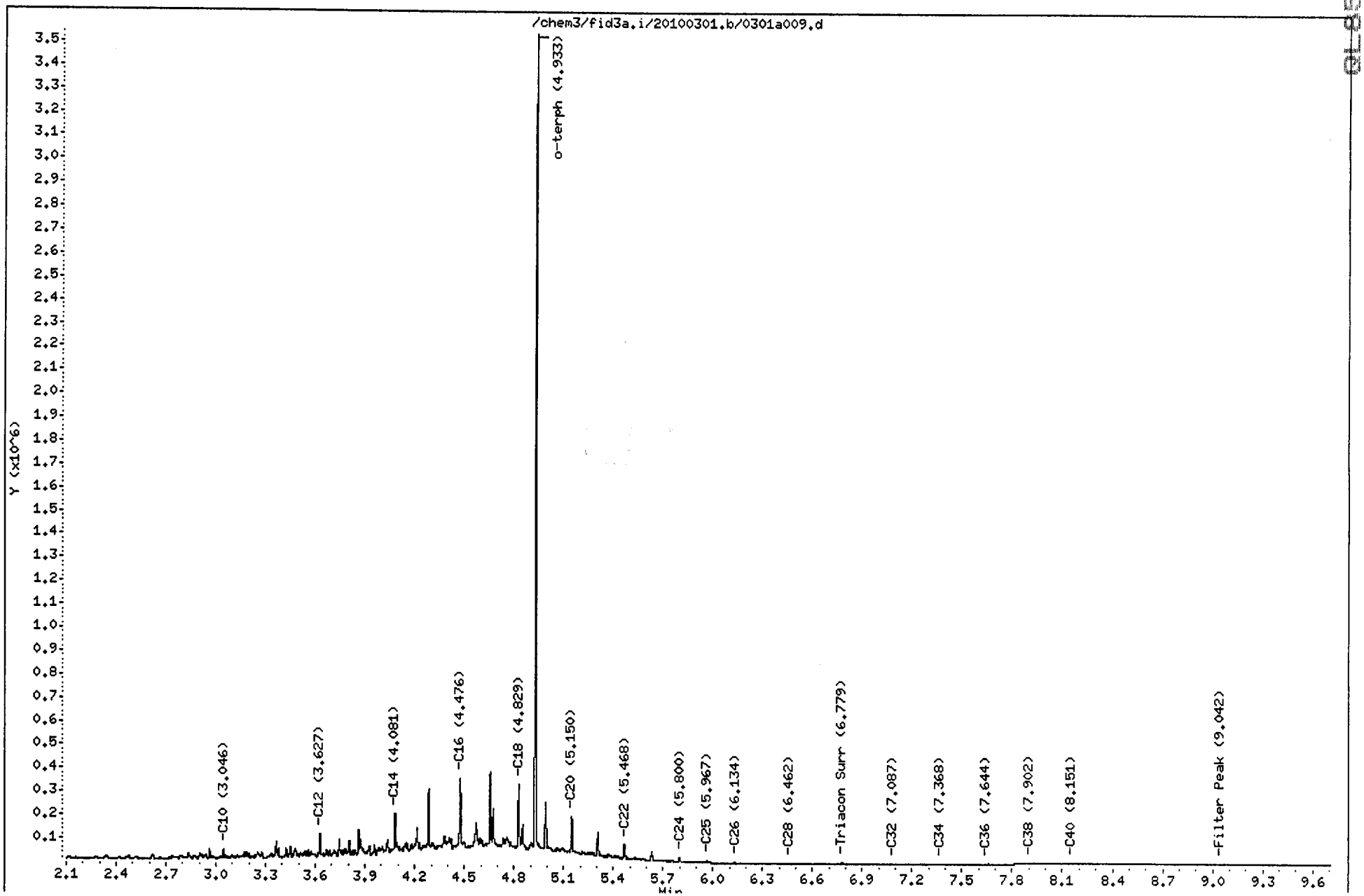
Analyte	RF	Curve Date
o-Terph Surr	38638.9	01-MAR-2010
Triacon Surr	35130.8	24-FEB-2010
Gas	31379.9	03-DEC-2009
Diesel	29779.8	01-MAR-2009
Motor Oil	22441.3	24-FEB-2010
AK102	33446.1	01-MAR-2009
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

Data File: /chem3/fid3a.i/20100301.b/0301a009.d
Date : 01-MAR-2010 17:30
Client ID: DIESEL 250
Sample Info: DIESEL 250

Column phase: ZB1-HT

Instrument: fid3a.i

Operator: ms
Column diameter: 0.25



Data File: /chem3/fid3a.i/20100301.b/0301a010.d

Date : 01-MAR-2010 17:47

Client ID: DIESEL 500

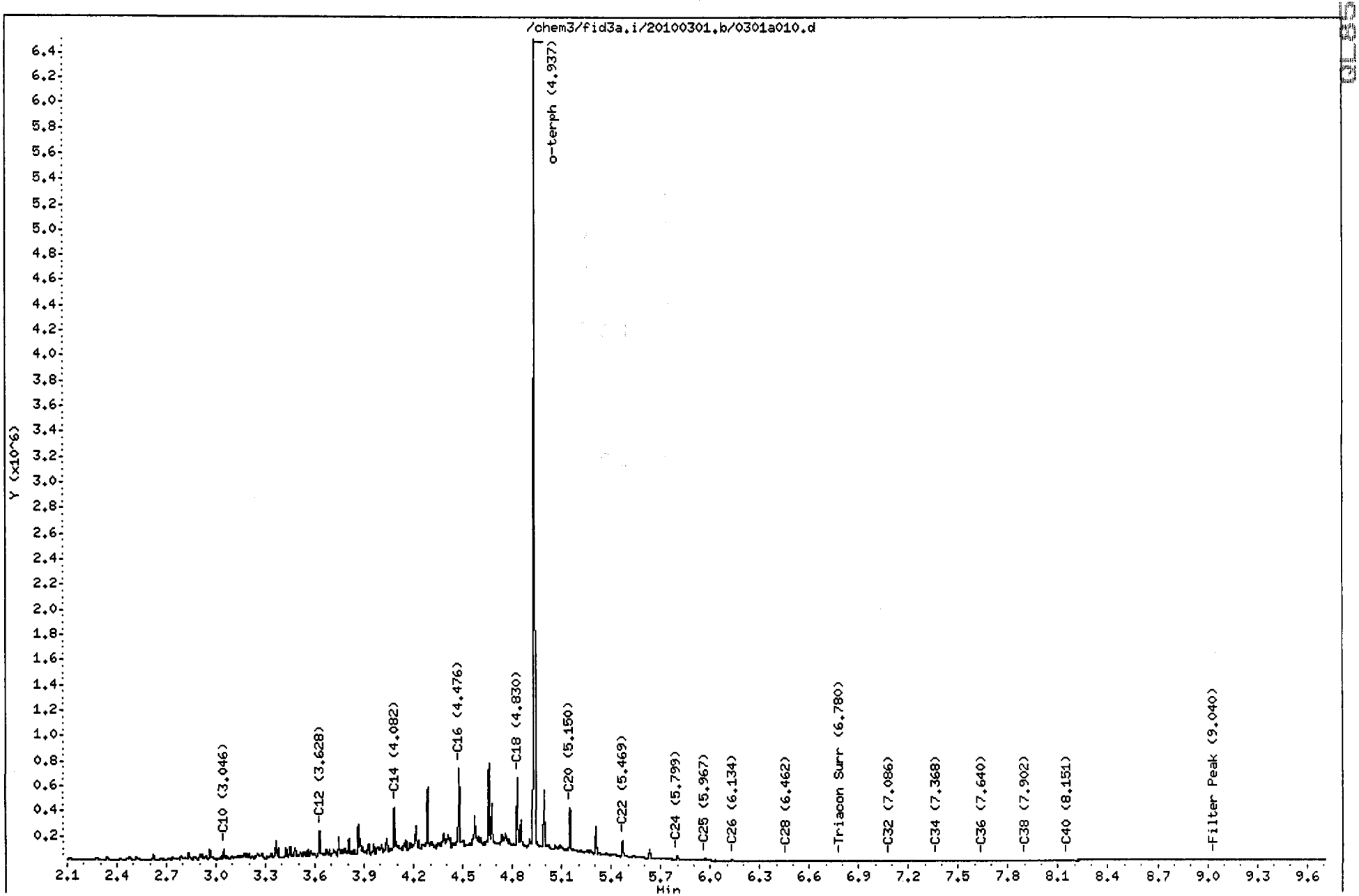
Sample Info: DIESEL 500

Column phase: ZB1-HT

Instrument: fid3a.i

Operator: ms

Column diameter: 0.25



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Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20100301.b/0301a011.d
Method: /chem3/fid3a.i/20100301.b/ftphfid3a.m
Instrument: fid3a.i
Operator: ms
Report Date: 03/03/2010
Macro: FID:3A030110

ARI ID: DIESEL 1000
Client ID: DIESEL 1000
Injection: 01-MAR-2010 18:04
Dilution Factor: 1

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.451	0.001	4639	1385	GAS (Tol-C12)	4368093	139
C8	1.809	-0.013	2426	336	DIESEL (C12-C24)	27924612	938
C10	3.047	0.003	169665	85428	M.OIL (C24-C38)	580905	26
C12	3.628	0.000	446457	301029	AK-102 (C10-C25)	31203717	933
C14	4.082	0.002	770468	470632	AK-103 (C25-C36)	438690	49
C16	4.478	0.002	1456342	825764	OR.DIES (C10-C28)	31467811	1492
C18	4.832	0.003	1239695	779815	OR.MOIL (C28-C40)	321847	29
C20	5.151	0.002	724248	473813	JET-A (C10-C18)	22797011	1438
C22	5.469	0.000	316400	237662			
C24	5.799	-0.001	93024	82752	STODDARD (C8-C12)	4243777	153
C25	5.966	-0.002	40542	42544			
C26	6.133	0.000	15351	17773			
C28	6.460	-0.002	3481	2722			
C32	7.087	0.006	3643	5302			
C34	7.371	0.003	2889	858			
Filter Peak	9.040	-0.001	8259	988			
C36	7.642	0.001	3557	497	CREOSOT (C8-C22)	31165836	4873
C38	7.903	0.001	4592	549			
C40	8.147	-0.002	6280	500	BUNKERC (C10-C38)	31707280	3668

Range Times: NW Diesel(3.678 - 5.850) NW Gas(1.400 - 3.678) NW M.Oil(5.850 - 7.952)
AK102(2.994 - 5.918) AK103(5.918 - 7.691) Jet A(2.994 - 4.878)

Surrogate	Area	Amount	%Rec
o-Terphenyl	6719967	173.9	386.5
Triacontane	6800	0.2	0.4

Analyte	RF	Curve Date
o-Terph Surr	38638.9	01-MAR-2010
Triacon Surr	35130.8	24-FEB-2010
Gas	31379.9	03-DEC-2009
Diesel	29779.8	01-MAR-2009
Motor Oil	22441.3	24-FEB-2010
AK102	33446.1	01-MAR-2009
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

Data File: /chem3/fid3a.i/20100301.b/0301a011.d

Date : 01-MAR-2010 18:04

Client ID: DIESEL 1000

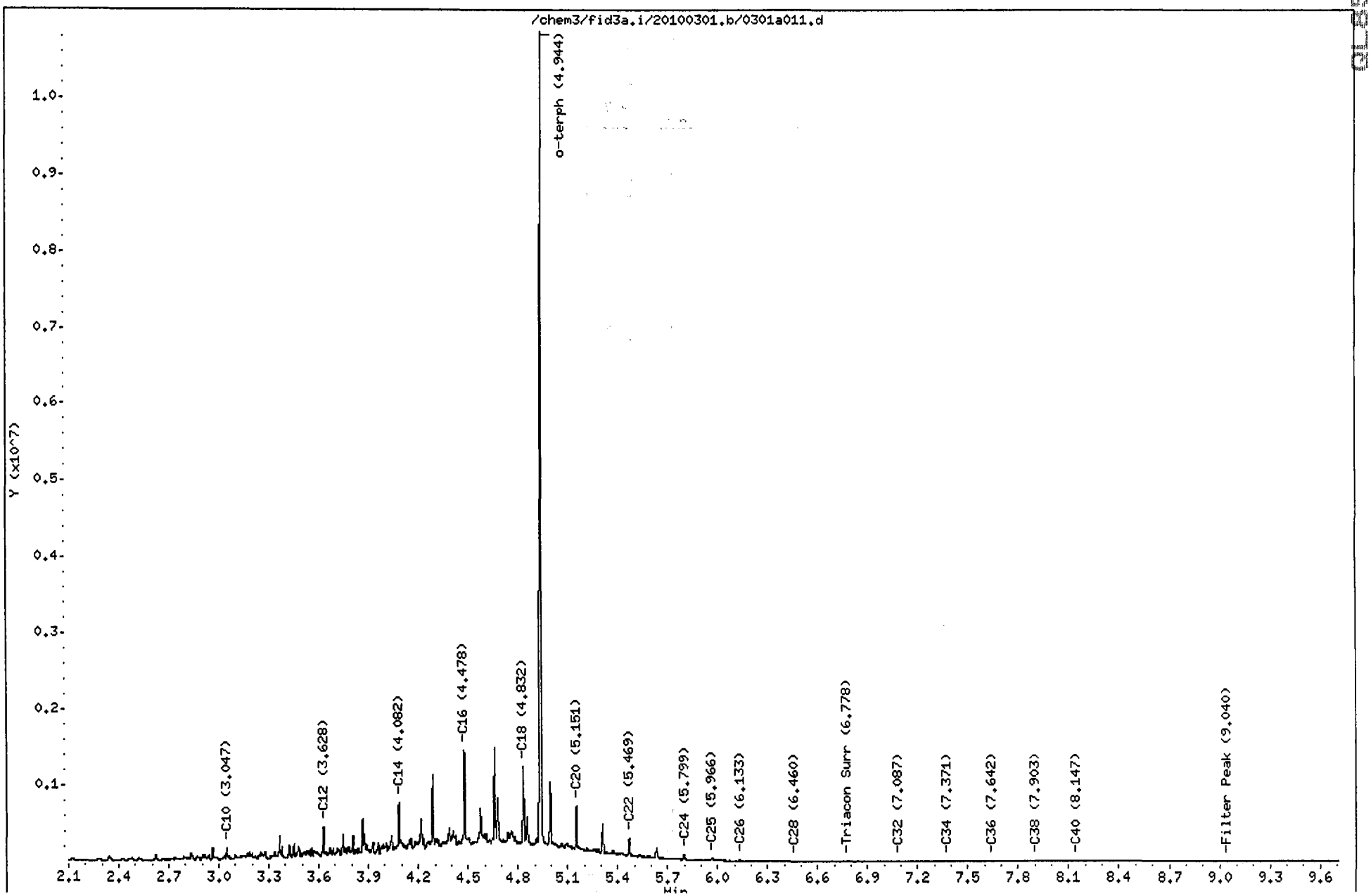
Sample Info: DIESEL 1000

Column phase: ZB1-HT

Instrument: fid3a.i

Operator: ms

Column diameter: 0.25



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Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20100301.b/0301a012.d
Method: /chem3/fid3a.i/20100301.b/ftphfid3a.m
Instrument: fid3a.i
Operator: ms
Report Date: 03/03/2010
Macro: FID:3A030110

ARI ID: DIESEL 2500
Client ID:
Injection: 01-MAR-2010 18:22
Dilution Factor: 1

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.454	0.003	6455	8773	GAS (Tol-C12)	10667431	340
C8	1.826	0.003	3980	1388	DIESEL (C12-C24)	70524539	2368
C10	3.050	0.006	403114	214135	M.OIL (C24-C38)	1101958	49
C12	3.629	0.001	1066617	766934	AK-102 (C10-C25)	78747163	2354
C14	4.086	0.005	2029718	1209399	AK-103 (C25-C36)	820845	92
C16	4.470	-0.006	759053	364590	OR.DIES (C10-C28)	79369076	3763
C18	4.837	0.008	2902999	2182229	OR.MOIL (C28-C40)	349156	31
C20	5.156	0.006	1873187	1256621	JET-A (C10-C18)	57417010	3623
C22	5.471	0.002	784812	624898			
C24	5.801	0.001	237636	204910	STODDARD (C8-C12)	10439869	377
C25	5.967	-0.001	102110	102043			
C26	6.133	-0.001	40544	46562			
C28	6.461	-0.002	7060	8810			
C32	7.088	0.006	4299	6952			
C34	7.368	-0.001	3016	239			
Filter Peak	9.042	0.001	8167	815			
C36	7.641	0.000	3653	146	CREOSOT (C8-C22)	78431909	12263
C38	7.903	0.001	4672	837			
C40	8.147	-0.003	6325	1253	BUNKERC (C10-C38)	79635056	9214

Range Times: NW Diesel(3.678 - 5.850) NW Gas(1.400 - 3.678) NW M.Oil(5.850 - 7.952)
AK102(2.994 - 5.918) AK103(5.918 - 7.691) Jet A(2.994 - 4.878)

Surrogate	Area	Amount	%Rec
o-Terphenyl	17141816	443.6	985.9
Triacontane	6687	0.2	0.4

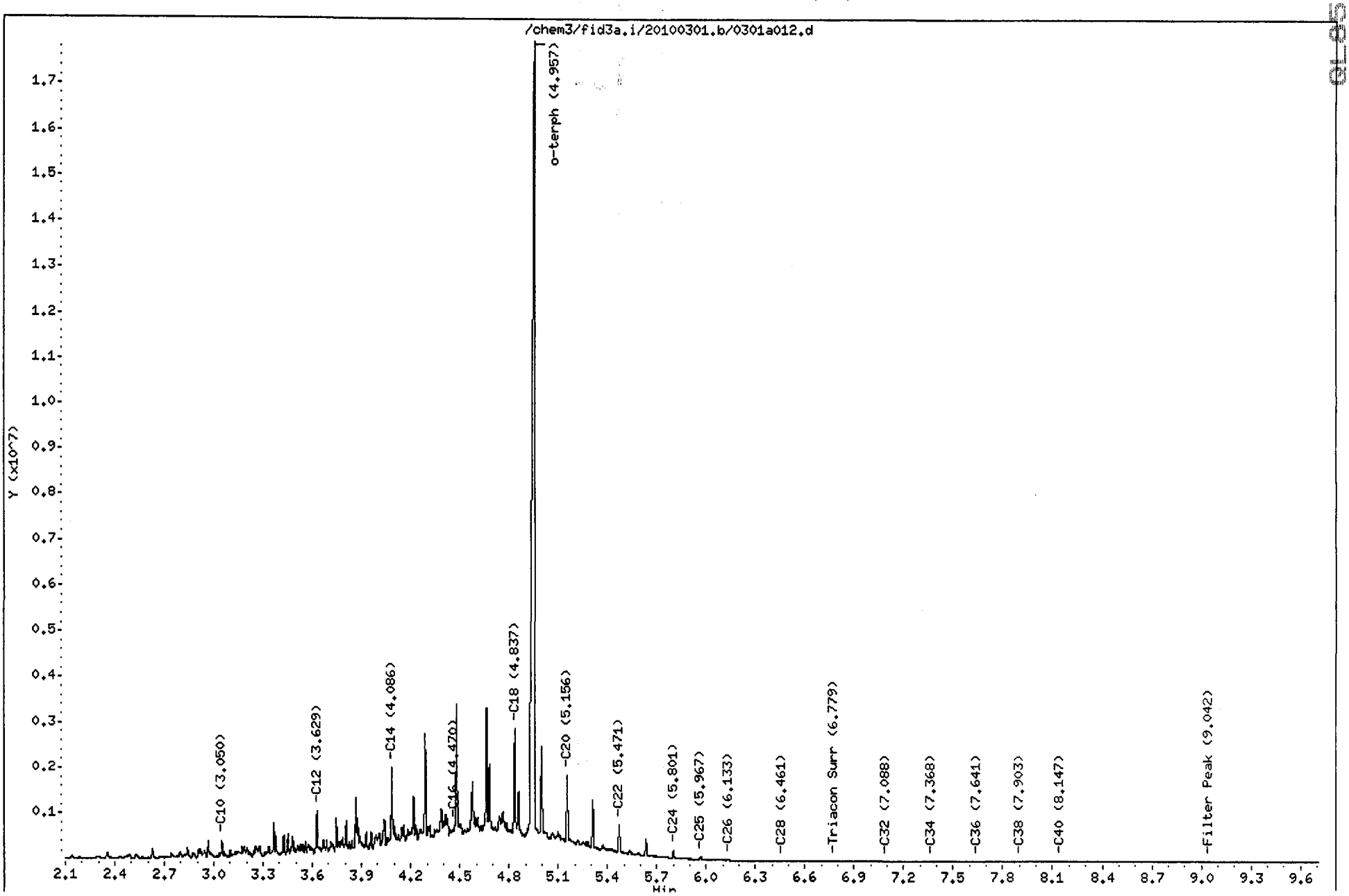
Analyte	RF	Curve Date
o-Terph Surr	38638.9	01-MAR-2010
Triacon Surr	35130.8	24-FEB-2010
Gas	31379.9	03-DEC-2009
Diesel	29779.8	01-MAR-2009
Motor Oil	22441.3	24-FEB-2010
AK102	33446.1	01-MAR-2009
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

Data File: /chem3/fid3a.i/20100301.b/0301a012.d
Date : 01-MAR-2010 18:22
Client ID:
Sample Info: DIESEL 2500

Column phase: ZB1-HT

Instrument: fid3a.i

Operator: ms
Column diameter: 0.25



Mar 3/3/10

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20100303.b/0303a006.d
Method: /chem3/fid3a.i/20100303.b/ftphfid3a.m
Instrument: fid3a.i
Operator: ms
Report Date: 03/03/2010
Macro: FID:3A030110

ARI ID: DIESEL ICV
Client ID:
Injection: 03-MAR-2010 15:09
Dilution Factor: 1

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.439	-0.010	3696	221	GAS (Tol-C12)	1717566	55
C8	1.833	0.013	16726	25790	DIESEL (C12-C24)	7041902	236
C10	3.045	0.002	82696	40763	M.OIL (C24-C38)	701437	31
C12	3.627	0.000	188223	122537	AK-102 (C10-C25)	8242600	246
C14	4.081	0.001	268291	168244	AK-103 (C25-C36)	584639	65
C16	4.476	0.002	296781	214521	OR.DIES (C10-C28)	8439453	400
C18	4.829	0.000	229000	165795	OR.MOIL (C28-C40)	559915	50
C20	5.148	-0.001	145542	122401	JET-A (C10-C18)	6319613	399
C22	5.468	-0.001	61016	47049			
C24	5.800	0.001	18991	20693	STODDARD (C8-C12)	1610223	58
C25	5.967	-0.001	11736	12856			
C26	6.133	-0.001	8003	8517			
C28	6.463	0.002	5741	1365			
C32	7.078	-0.002	6133	1693			
C34	7.369	0.002	6108	2022			
Filter Peak	9.041	0.000	5990	478			
C36	7.639	-0.001	5805	1727	CREOSOT (C8-C22)	8425611	1317
C38	7.897	-0.002	5815	3434			
C40	8.145	-0.001	6182	616	BUNKERC (C10-C38)	8915125	1031

Range Times: NW Diesel(3.677 - 5.850) NW Gas(1.399 - 3.677) NW M.Oil(5.850 - 7.949)
AK102(2.994 - 5.918) AK103(5.918 - 7.690) Jet A(2.994 - 4.879)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1840979	47.6	105.9
Triacontane	15355	0.4	1.0

Analyte	RF	Curve Date
o-Terph Surr	38638.9	01-MAR-2010
Triacon Surr	35130.8	24-FEB-2010
Gas	31379.9	03-DEC-2009
Diesel	29779.8	01-MAR-2009
Motor Oil	22441.3	24-FEB-2010
AK102	33446.1	01-MAR-2009
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

Data File: /chem3/fid3a.i/20100303.b/0303a006.d

Date : 03-MAR-2010 15:09

Client ID:

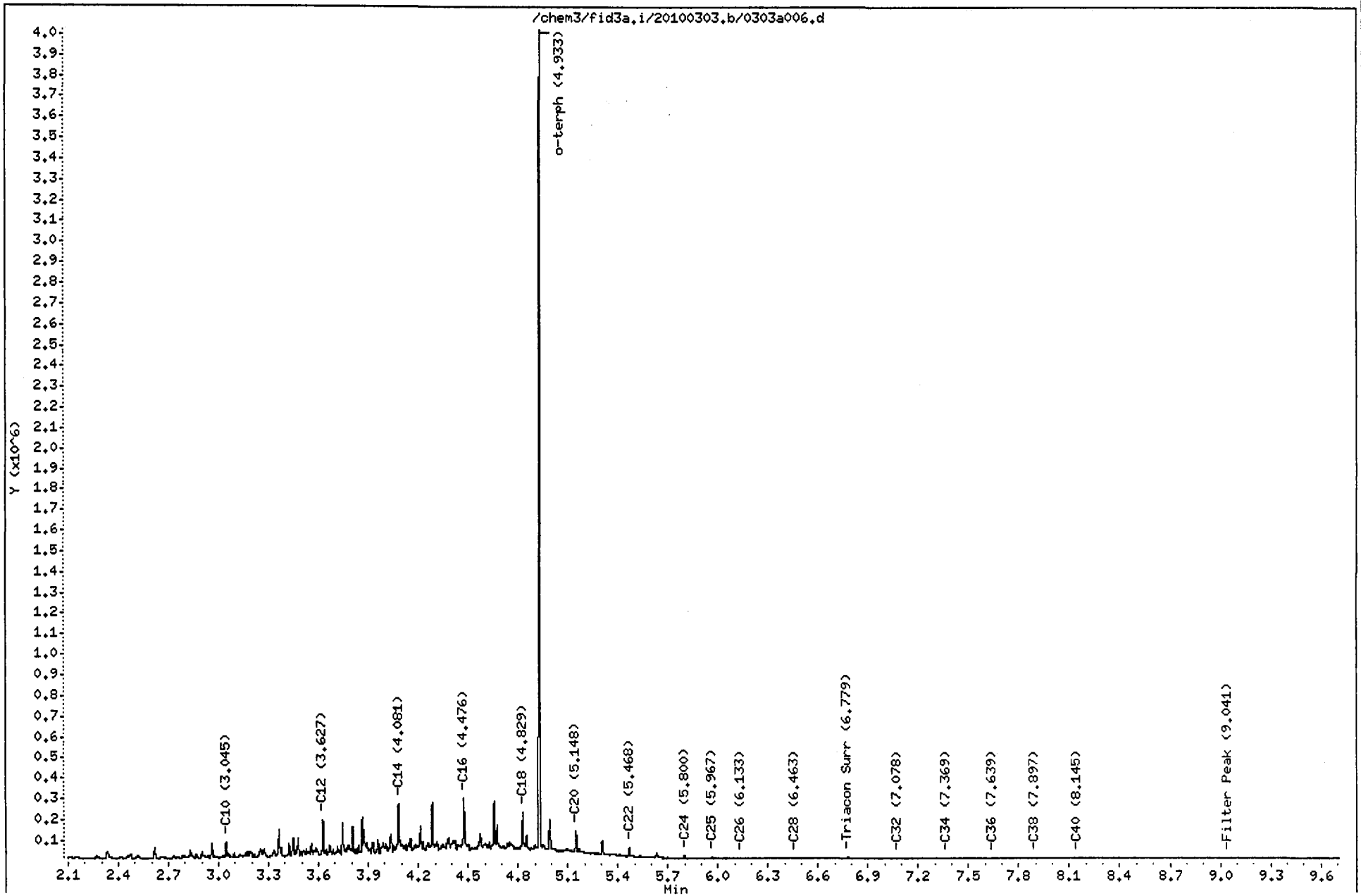
Sample Info: DIESEL ICV

Column phase: ZB1-HT

Instrument: fid3a.i

Operator: ms

Column diameter: 0.25



6a

NW MOTOR OIL INITIAL CALIBRATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: FLOYD-SNIDER

Instrument: FID3A.I Project: LORA LAKE APARTMENTS

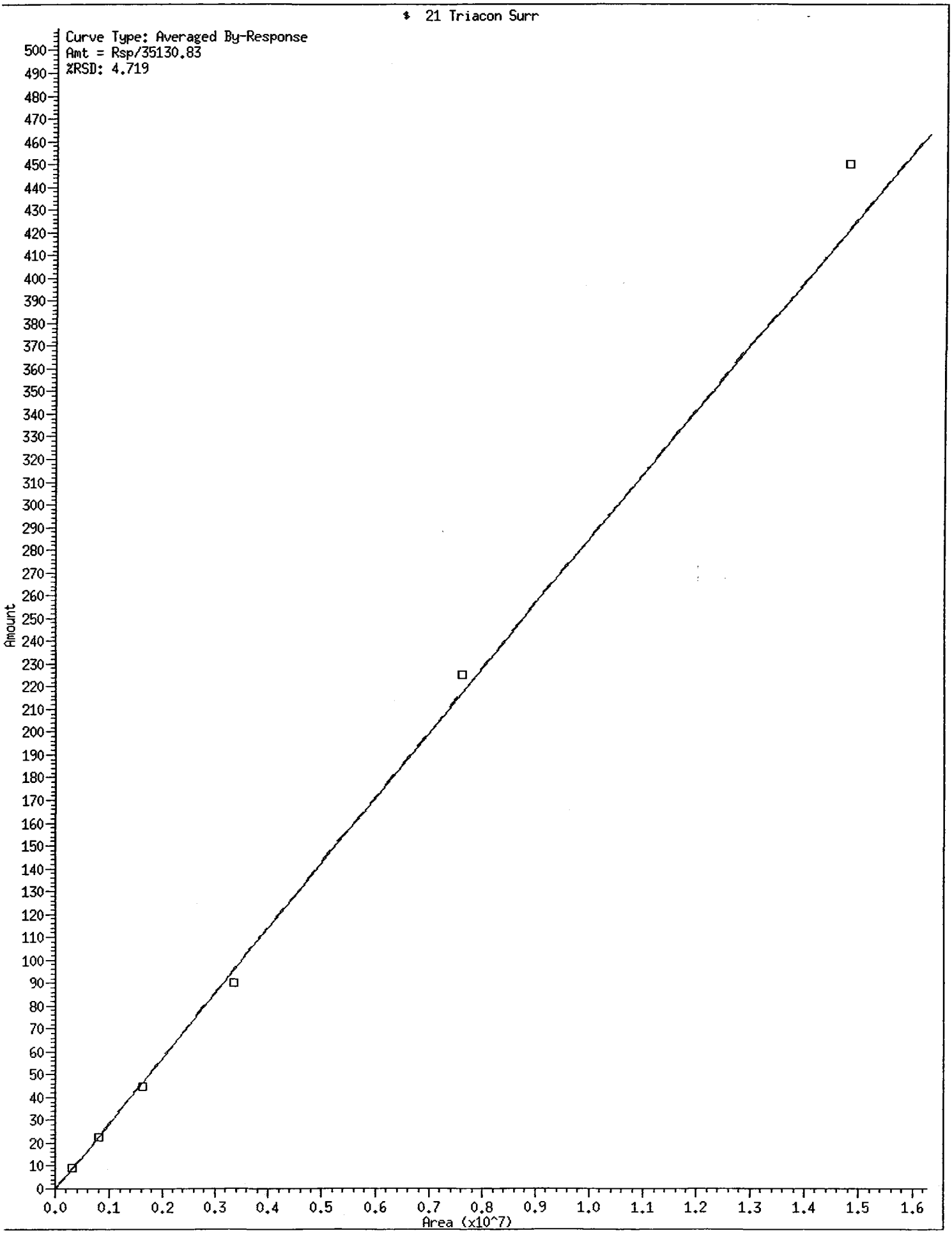
Calibration Date: 24-FEB-2010 SDG No.: QL85

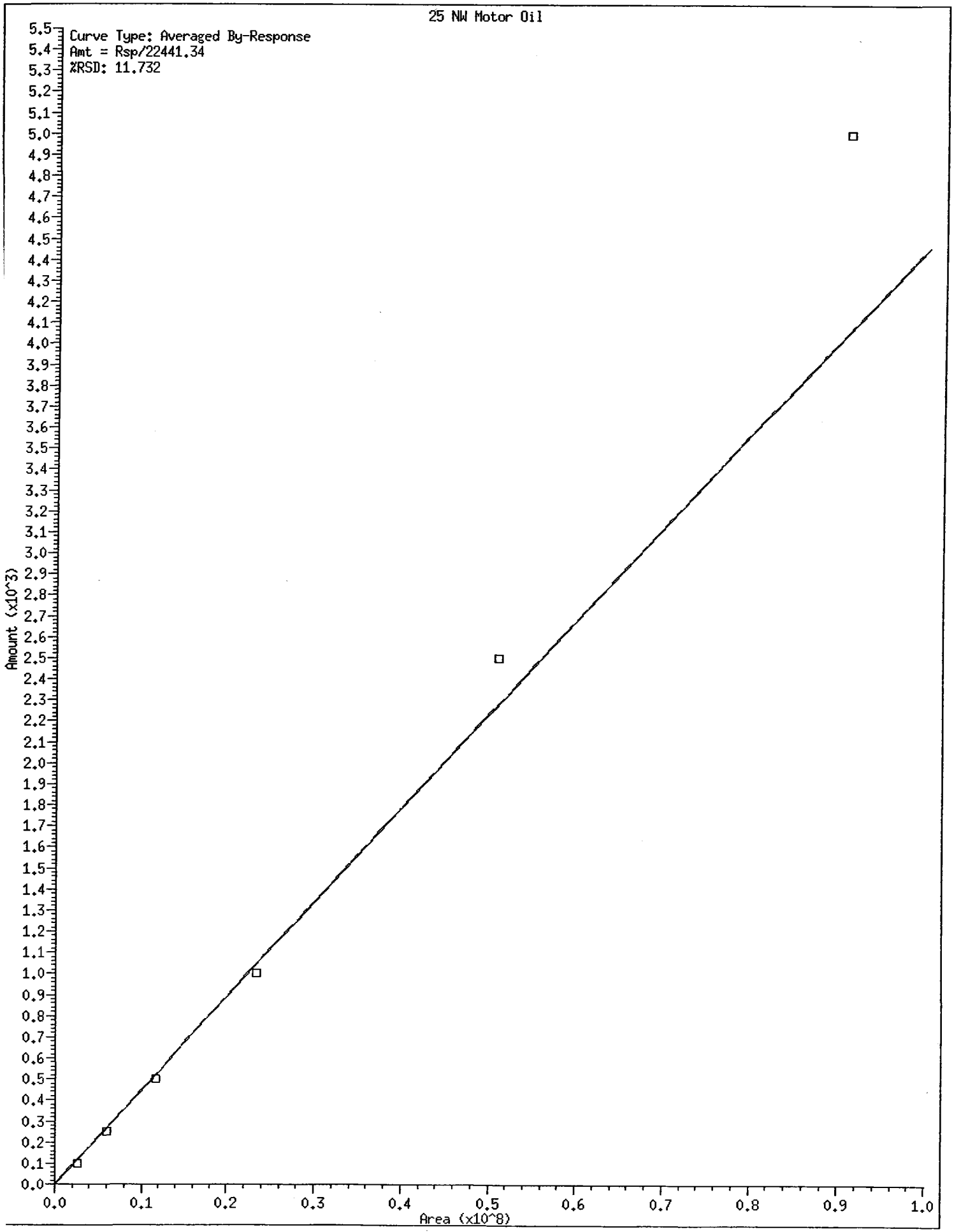
Motor Oil Range	RF1 100	RF2 250	RF3 500	RF4 1000	RF5 2500	RF6 5000	Ave RF	%RSD
WA M.Oil	25503.80	23719.15	23364.88	23398.54	20454.95	18206.66	22441.34	11.732
Triac Surr	34547	35939	36233	37327	33871	32867	35131	4.7

<- Indicates %RSD outside limits
Surrogate areas are not included in Motor Oil RF calculation.

Quant Ranges : WA M.Oil C24-C38

Calibration Files	Analysis Time
0224a047.d	24-FEB-2010 20:48
0224a048.d	24-FEB-2010 21:05
0224a049.d	24-FEB-2010 21:22
0224a050.d	24-FEB-2010 21:39
0224a051.d	24-FEB-2010 21:56
0224a052.d	24-FEB-2010 22:13


$ 21 Triacon Surr
Curve Type: Averaged By-Response
Amt = Rsp/35130.83
%RSD: 4.719
Amount
Area (x10^7)


25 NW Motor Oil
Curve Type: Averaged By-Response
Amt = Rsp/22441.34
%RSD: 11.732
Amount (x10^3)
Area (x10^8)
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0

TPH ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC Client: ARI

SDG No.: 20100224 Project: MOTOR OIL CURVE

Instrument ID: FID3A GC Column: ZB1-HT

Run Date: 02/24/10

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, AND STANDARDS, IS GIVEN BELOW:

SURROGATE RT FROM DAILY STANDARD
TERPH: 4.93 TRIAC: 6.79

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TERPH RT #	TRIAC RT #
01	RT	RT	02/24/10	1756	4.93	6.79
02	IB	IB	02/24/10	1814	4.93	6.79
03	MOIL 100	MOIL 100	02/24/10	2048	4.93	6.78
04	MOIL 250	MOIL 250	02/24/10	2105	4.93	6.79
05	MOIL 500	MOIL 500	02/24/10	2122	4.93	6.79
06	MOIL 1000	MOIL 1000	02/24/10	2139	4.93	6.80
07	MOIL 2500	MOIL 2500	02/24/10	2156	4.94	6.81
08	MOIL 5000	MOIL 5000	02/24/10	2213	4.93	6.83
09	MOIL ICV	MOIL ICV	02/24/10	2230	4.93	6.79

QC LIMITS

TERPH = o-terph (+/- 0.05 MINUTES)
TRIAC = Triacon Surr (+/- 0.05 MINUTES)

* Values outside of QC limits.

FORM VIII TPH

ms 3/3/10

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20100224.b/0224a037.d
Method: /chem3/fid3a.i/20100224.b/ftphfid3a.m
Instrument: fid3a.i
Operator: ms
Report Date: 03/03/2010
Macro: FID:3A022410

ARI ID: RT
Client ID:
Injection: 24-FEB-2010 17:56
Dilution Factor: 1

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.448	0.000	1046718	836967	GAS (Tol-C12)	2670281	85
C8	1.822	0.000	404921	509274	DIESEL (C12-C24)	3441370	166
C10	3.045	0.000	1252689	538785	M.OIL (C24-C38)	3955200	176
C12	3.628	0.000	1300209	531325	AK-102 (C10-C25)	4585228	182
C14	4.081	0.000	1241287	536601	AK-103 (C25-C36)	3475413	389
C16	4.475	0.000	1151267	542097	OR.DIES (C10-C28)	6374041	302
C18	4.829	0.000	1264089	548814	OR.MOIL (C28-C40)	2637309	234
C20	5.150	0.000	1157165	552634	JET-A (C10-C18)	2846811	180
C22	5.470	0.000	984235	554351			
C24	5.803	0.000	878595	564626	STODDARD (C8-C12)	1783394	64
C25	5.972	0.000	1151023	615295			
C26	6.139	0.000	848971	570927			
C28	6.468	0.000	763881	568907			
C32	7.088	0.000	728118	550485			
C34	7.376	0.000	648643	509956			
Filter Peak	9.041	0.000	7517	1351			
C36	7.650	0.000	601917	492831	CREOSOT (C8-C22)	4635200	725
C38	7.909	0.000	512158	421963			
C40	8.156	0.000	420856	399338	BUNKERC (C10-C38)	8536354	988

Range Times: NW Diesel(3.678 - 5.853) NW Gas(1.398 - 3.678) NW M.Oil(5.853 - 7.959)
AK102(2.995 - 5.922) AK103(5.922 - 7.700) Jet A(2.995 - 4.879)

Surrogate	Area	Amount	%Rec
o-Terphenyl	2129653	49.2	109.2
Triacontane	1942114	55.3	122.8

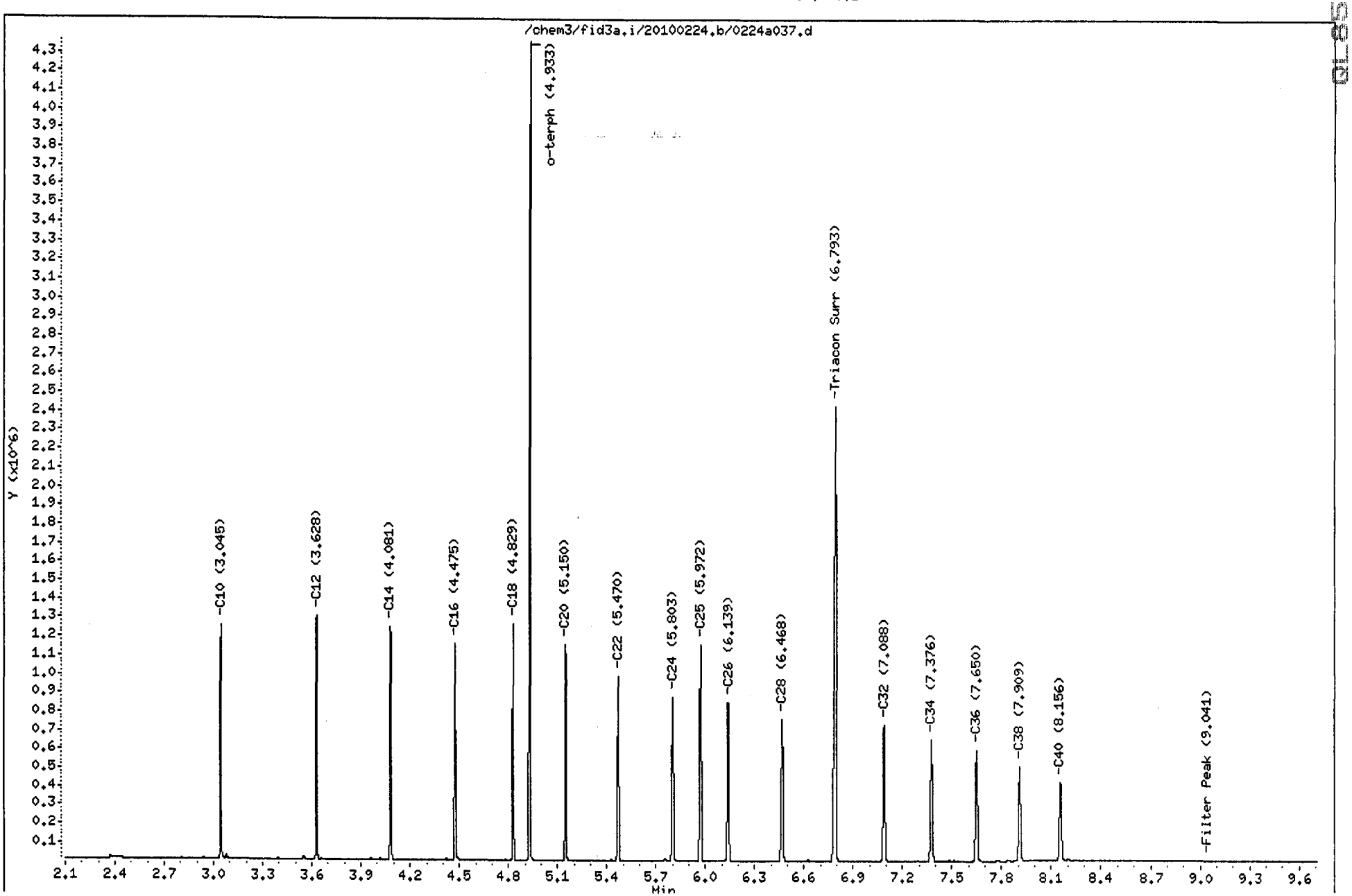
Analyte	RF	Curve Date
o-Terph Surr	43328.7	24-FEB-2010
Triacon Surr	35130.8	24-FEB-2010
Gas	31379.9	03-DEC-2009
Diesel	20723.6	02-OCT-2009
Motor Oil	22441.3	24-FEB-2010
AK102	25175.9	02-OCT-2009
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

Data File: /chem3/fid3a.i/20100224.b/0224a037.d
Date : 24-FEB-2010 17:56
Client ID:
Sample Info: RT

Column phase: ZB1-HT

Instrument: fid3a.i

Operator: ms
Column diameter: 0.25



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Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20100224.b/0224a038.d
Method: /chem3/fid3a.i/20100224.b/ftphfid3a.m
Instrument: fid3a.i
Operator: ms
Report Date: 03/03/2010
Macro: FID:3A022410

ARI ID: IB
Client ID:
Injection: 24-FEB-2010 18:14
Dilution Factor: 1

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.452	0.004	4195	3464	GAS (Tol-C12)	187464	6
C8	1.829	0.007	2469	4416	DIESEL (C12-C24)	98856	5
C10	3.045	0.000	3436	2491	M.OIL (C24-C38)	227434	10
C12	3.628	0.000	1431	1077	AK-102 (C10-C25)	146130	6
C14	4.081	0.001	870	328	AK-103 (C25-C36)	171036	19
C16	4.477	0.002	1271	988	OR.DIES (C10-C28)	180843	9
C18	4.828	-0.002	1712	1204	OR.MOIL (C28-C40)	258694	23
C20	5.150	0.000	1408	797	JET-A (C10-C18)	93689	6
C22	5.470	0.000	1318	1170			
C24	5.800	-0.003	1376	745	STODDARD (C8-C12)	138769	5
C25	5.971	-0.001	1579	1762			
C26	6.138	-0.001	1482	1718			
C28	6.464	-0.004	2576	2633			
C32	7.086	-0.002	5797	8855			
C34	7.376	0.000	2501	347			
Filter Peak	9.040	-0.001	6915	1381			
C36	7.650	0.000	3254	1719	CREOSOT (C8-C22)	217291	34
C38	7.910	0.001	4146	1235			
C40	8.160	0.004	5956	5220	BUNKERC (C10-C38)	370616	43

Range Times: NW Diesel(3.678 - 5.853) NW Gas(1.398 - 3.678) NW M.Oil(5.853 - 7.959)
AK102(2.995 - 5.922) AK103(5.922 - 7.700) Jet A(2.995 - 4.879)

Surrogate	Area	Amount	%Rec
o-Terphenyl	2401424	55.4	123.2
Triacontane	1812152	51.6	114.6

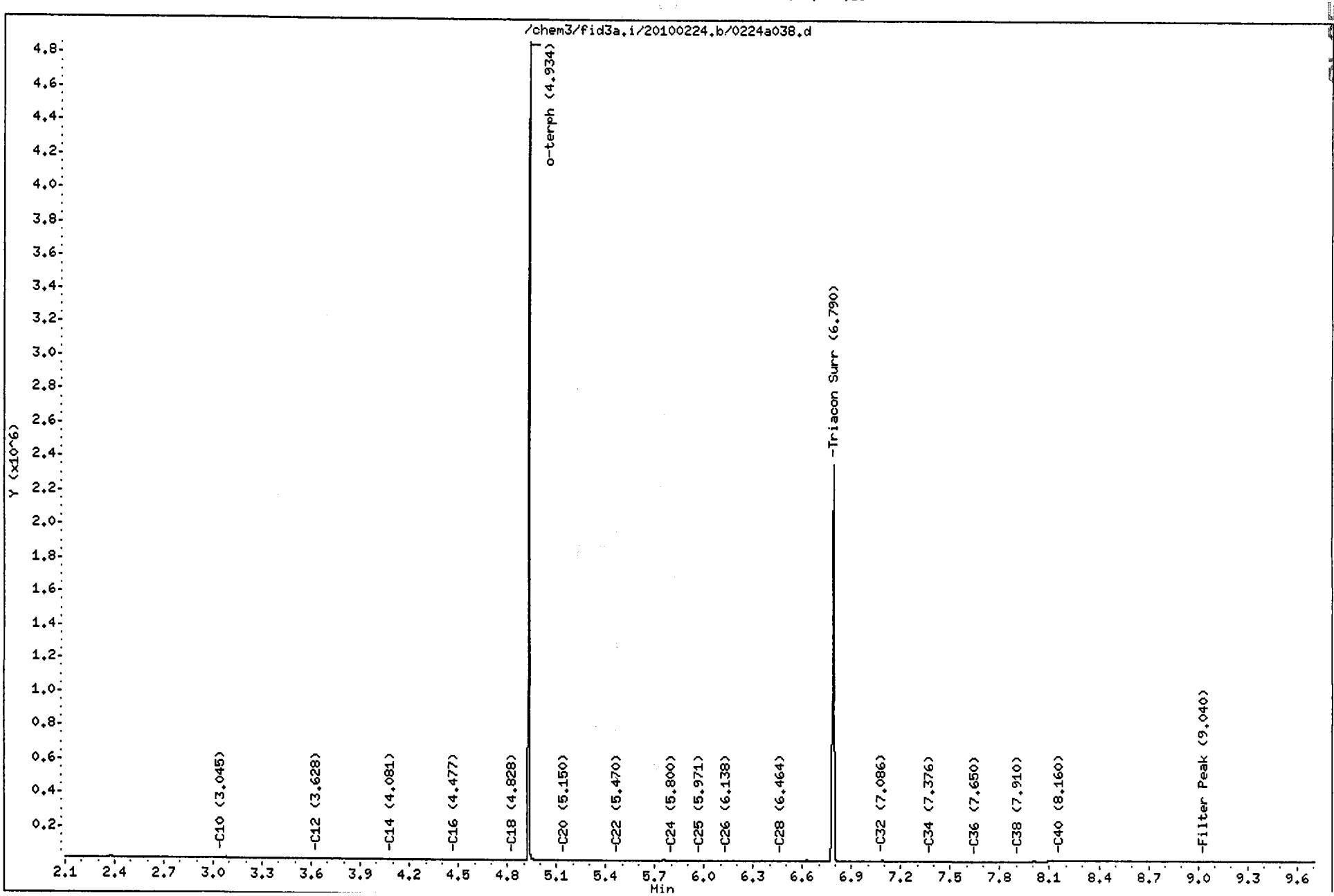
Analyte	RF	Curve Date
o-Terph Surr	43328.7	24-FEB-2010
Triacon Surr	35130.8	24-FEB-2010
Gas	31379.9	03-DEC-2009
Diesel	20723.6	02-OCT-2009
Motor Oil	22441.3	24-FEB-2010
AK102	25175.9	02-OCT-2009
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

Data File: /chem3/fid3a.i/20100224.b/0224a038.d
Date : 24-FEB-2010 18:14
Client ID:
Sample Info: IB

Column phase: ZB1-HT

Instrument: fid3a.i

Operator: ms
Column diameter: 0.25



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Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20100224.b/0224a047.d
Method: /chem3/fid3a.i/20100224.b/ftphfid3a.m
Instrument: fid3a.i
Operator: ms
Report Date: 03/03/2010
Macro: FID:3A022410

ARI ID: MOIL 100
Client ID:
Injection: 24-FEB-2010 20:48
Dilution Factor: 1

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.453	0.004	7007	8696	GAS (Tol-C12)	198128	6
C8	1.820	-0.002	1996	274	DIESEL (C12-C24)	327418	16
C10	3.045	0.000	1953	1557	M.OIL (C24-C38)	2550380	114
C12	3.627	-0.001	840	140	AK-102 (C10-C25)	413747	16
C14	4.082	0.001	758	182	AK-103 (C25-C36)	2158785	242
C16	4.476	0.000	704	82	OR.DIES (C10-C28)	976922	46
C18	4.829	-0.001	928	507	OR.MOIL (C28-C40)	2248170	199
C20	5.151	0.001	2072	1523	JET-A (C10-C18)	84676	5
C22	5.472	0.002	5693	1008			
C24	5.805	0.002	11032	4722	STODDARD (C8-C12)	131886	5
C25	5.973	0.001	13121	3585			
C26	6.139	0.000	15369	5427			
C28	6.470	0.001	18826	4424			
C32	7.087	-0.001	26030	17836			
C34	7.376	0.000	26071	10129			
Filter Peak	9.041	0.000	8049	1284			
C36	7.647	-0.002	24239	10468	CREOSOT (C8-C22)	278440	44
C38	7.914	0.004	21106	11155			
C40	8.157	0.001	23365	15740	BUNKERC (C10-C38)	2917665	338

Range Times: NW Diesel(3.678 - 5.853) NW Gas(1.398 - 3.678) NW M.Oil(5.853 - 7.959)
AK102(2.995 - 5.922) AK103(5.922 - 7.700) Jet A(2.995 - 4.879)

Surrogate	Area	Amount	%Rec
o-Terphenyl	2543	0.1	0.1
Triacontane	310922	8.9	19.7

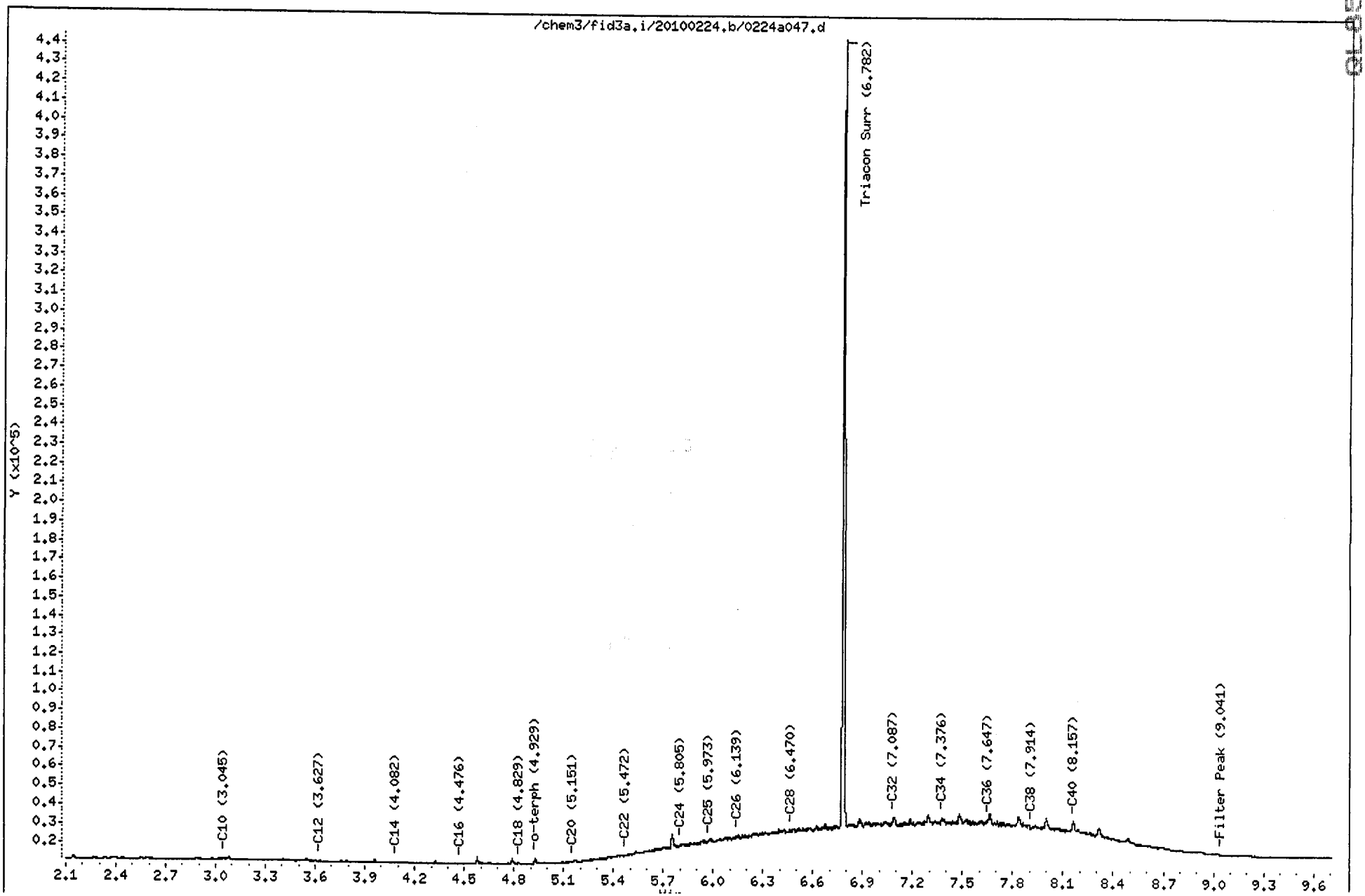
Analyte	RF	Curve Date
o-Terph Surr	43328.7	24-FEB-2010
Triacon Surr	35130.8	24-FEB-2010
Gas	31379.9	03-DEC-2009
Diesel	20723.6	02-OCT-2009
Motor Oil	22441.3	24-FEB-2010
AK102	25175.9	02-OCT-2009
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

Data File: /chem3/fid3a.i/20100224.b/0224a047.d
Date : 24-FEB-2010 20:48
Client ID:
Sample Info: MOIL 100

Column phase: ZB1-HT

Instrument: fid3a.i

Operator: ms
Column diameter: 0.25



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Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20100224.b/0224a048.d
Method: /chem3/fid3a.i/20100224.b/ftphfid3a.m
Instrument: fid3a.i
Operator: ms
Report Date: 03/03/2010
Macro: FID:3A022410

ARI ID: MOIL 250
Client ID:
Injection: 24-FEB-2010 21:05
Dilution Factor: 1

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.455	0.007	6940	10809	GAS (Tol-C12)	194999	6
C8	1.825	0.003	2103	773	DIESEL (C12-C24)	698439	34
C10	3.045	0.000	2312	1762	M.OIL (C24-C38)	5929789	264
C12	3.628	0.000	981	438	AK-102 (C10-C25)	855616	34
C14	4.083	0.002	852	519	AK-103 (C25-C36)	5031445	563
C16	4.476	0.001	817	234	OR.DIES (C10-C28)	2201421	104
C18	4.830	0.001	1278	684	OR.MOIL (C28-C40)	5094829	452
C20	5.150	0.000	4283	934	JET-A (C10-C18)	92033	6
C22	5.467	-0.003	12777	2545			
C24	5.803	0.000	25374	5518	STODDARD (C8-C12)	129315	5
C25	5.974	0.002	32573	12029			
C26	6.142	0.002	37368	13983			
C28	6.466	-0.002	45455	19552			
C32	7.087	-0.002	55911	17484			
C34	7.377	0.001	58867	14005			
Filter Peak	9.040	-0.001	11445	8121			
C36	7.649	0.000	52749	12479	CREOSOT (C8-C22)	406562	64
C38	7.911	0.002	47197	13079			
C40	8.153	-0.003	42305	18226	BUNKERC (C10-C38)	6668212	771

Range Times: NW Diesel(3.678 - 5.853) NW Gas(1.398 - 3.678) NW M.Oil(5.853 - 7.959)
AK102(2.995 - 5.922) AK103(5.922 - 7.700) Jet A(2.995 - 4.879)

Surrogate	Area	Amount	%Rec
o-Terphenyl	2614	0.1	0.1
Triacontane	808634	23.0	51.2

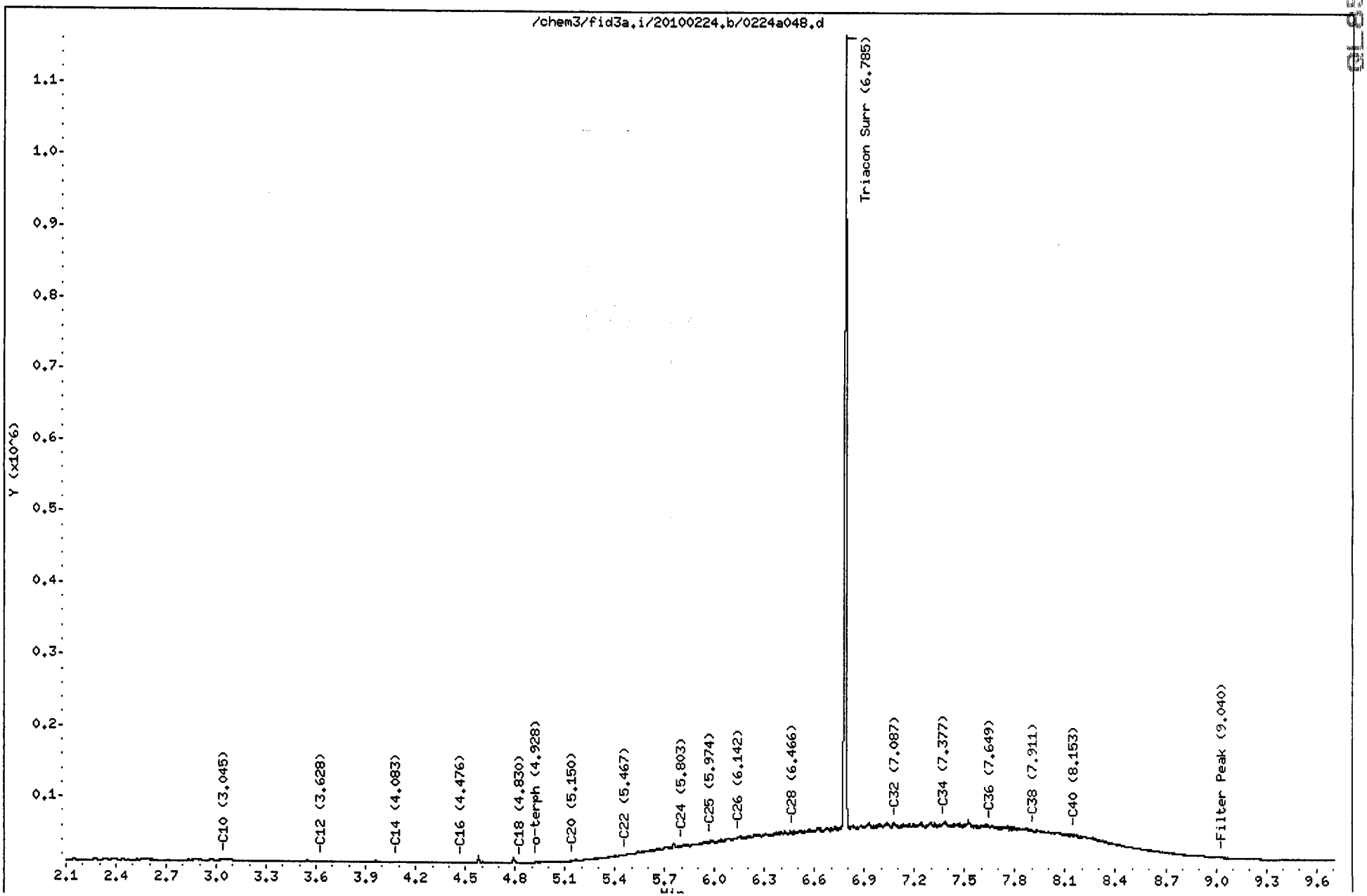
Analyte	RF	Curve Date
o-Terph Surr	43328.7	24-FEB-2010
Triacon Surr	35130.8	24-FEB-2010
Gas	31379.9	03-DEC-2009
Diesel	20723.6	02-OCT-2009
Motor Oil	22441.3	24-FEB-2010
AK102	25175.9	02-OCT-2009
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

Data File: /chem3/fid3a.i/20100224.b/0224a048.d
Date : 24-FEB-2010 21:05
Client ID:
Sample Info: MOIL 250

Column phase: ZB1-HT

Instrument: fid3a.i

Operator: ms
Column diameter: 0.25



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Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20100224.b/0224a049.d
Method: /chem3/fid3a.i/20100224.b/ftphfid3a.m
Instrument: fid3a.i
Operator: ms
Report Date: 03/03/2010
Macro: FID:3A022410

ARI ID: MOIL 500
Client ID:
Injection: 24-FEB-2010 21:22
Dilution Factor: 1

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.457	0.009	7535	9021	GAS (Tol-C12)	204347	7
C8	1.821	-0.001	2025	321	DIESEL (C12-C24)	1344726	65
C10	3.046	0.001	2828	2007	M.OIL (C24-C38)	11682443	521
C12	3.629	0.001	1226	859	AK-102 (C10-C25)	1605034	64
C14	4.082	0.001	1118	410	AK-103 (C25-C36)	9965200	1116
C16	4.476	0.001	944	502	OR.DIES (C10-C28)	4294541	204
C18	4.829	0.000	1876	1582	OR.MOIL (C28-C40)	9922819	880
C20	5.150	0.000	7896	1886	JET-A (C10-C18)	106797	7
C22	5.471	0.001	26052	6712			
C24	5.802	-0.001	50852	11016	STODDARD (C8-C12)	132917	5
C25	5.971	0.000	61550	10900			
C26	6.137	-0.002	72680	24010			
C28	6.468	0.000	92124	34021			
C32	7.090	0.002	108293	34094			
C34	7.378	0.002	114620	36238			
Filter Peak	9.042	0.001	12604	3266			
C36	7.647	-0.003	105157	53140	CREOSOT (C8-C22)	634421	99
C38	7.913	0.004	89292	40248			
C40	8.158	0.002	79329	30436	BUNKERC (C10-C38)	13067833	1512

Range Times: NW Diesel(3.678 - 5.853) NW Gas(1.398 - 3.678) NW M.Oil(5.853 - 7.959)
AK102(2.995 - 5.922) AK103(5.922 - 7.700) Jet A(2.995 - 4.879)

Surrogate	Area	Amount	%Rec
o-Terphenyl	3304	0.1	0.2
Triacontane	1630480	46.4	103.1

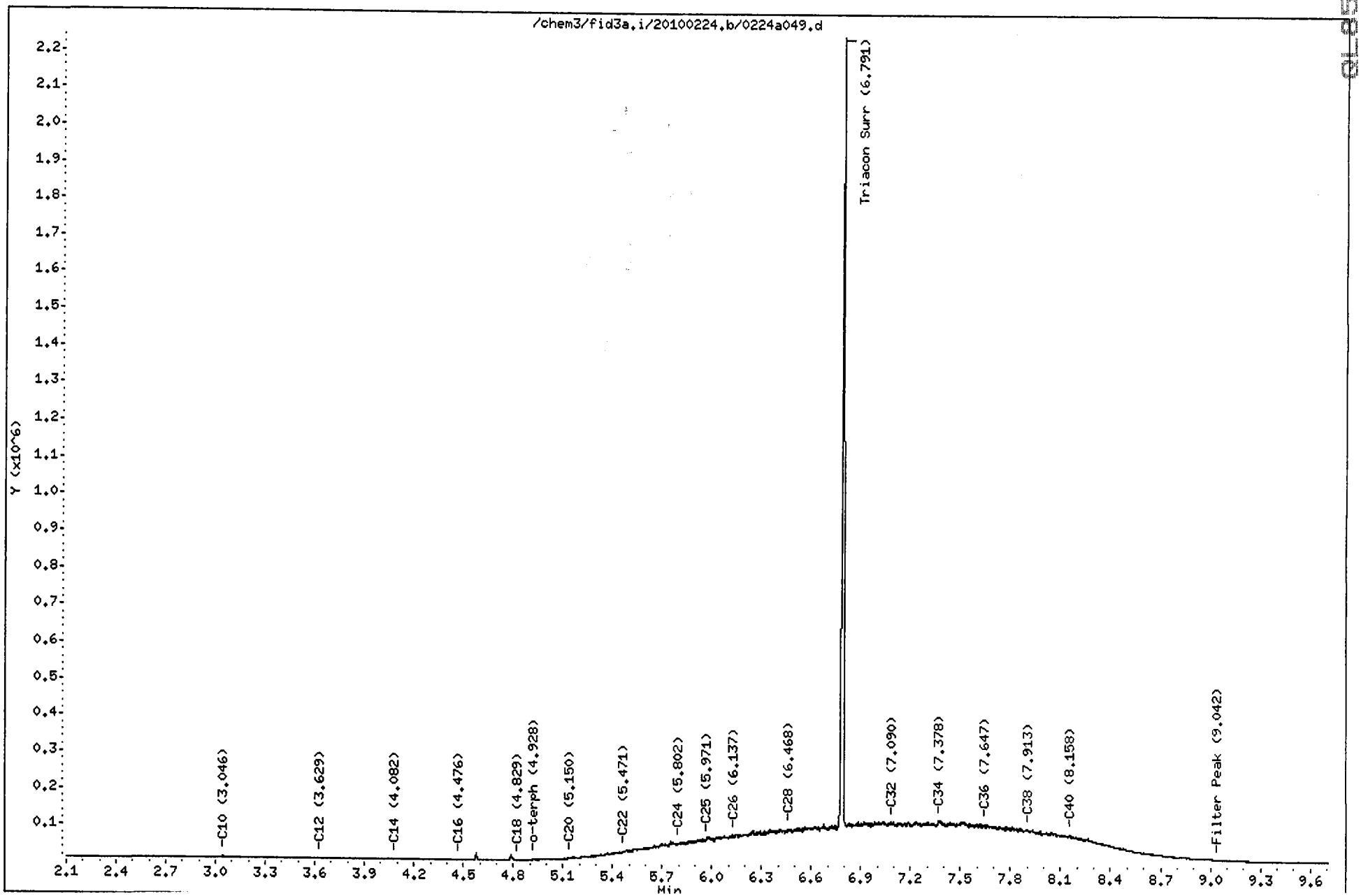
Analyte	RF	Curve Date
o-Terph Surr	43328.7	24-FEB-2010
Triacon Surr	35130.8	24-FEB-2010
Gas	31379.9	03-DEC-2009
Diesel	20723.6	02-OCT-2009
Motor Oil	22441.3	24-FEB-2010
AK102	25175.9	02-OCT-2009
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

Data File: /chem3/fid3a.i/20100224.b/0224a049.d
Date : 24-FEB-2010 21:22
Client ID:
Sample Info: MOIL 500

Column phase: ZB1-HT

Instrument: fid3a.i

Operator: ms
Column diameter: 0.25



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Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20100224.b/0224a050.d
Method: /chem3/fid3a.i/20100224.b/ftphfid3a.m
Instrument: fid3a.i
Operator: ms
Report Date: 03/03/2010
Macro: FID:3A022410

ARI ID: MOIL 1000
Client ID:
Injection: 24-FEB-2010 21:39
Dilution Factor: 1

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.457	0.009	7891	7846	GAS (Tol-C12)	203515	6
C8	1.820	-0.002	1898	226	DIESEL (C12-C24)	2730304	132
C10	3.046	0.001	3887	2866	M.OIL (C24-C38)	23398548	1043
C12	3.628	0.001	1874	1183	AK-102 (C10-C25)	3230297	128
C14	4.082	0.001	1996	1386	AK-103 (C25-C36)	20106611	2251
C16	4.476	0.000	1558	1137	OR.DIES (C10-C28)	8703994	413
C18	4.828	-0.002	3482	1829	OR.MOIL (C28-C40)	19463367	1726
C20	5.151	0.001	16437	14051	JET-A (C10-C18)	159170	10
C22	5.472	0.002	53615	20036			
C24	5.804	0.001	104334	28733	STODDARD (C8-C12)	133408	5
C25	5.971	0.000	126198	44078			
C26	6.138	-0.001	151603	92397			
C28	6.467	-0.001	177596	35227			
C32	7.087	-0.001	223165	79428			
C34	7.372	-0.004	223196	91338			
Filter Peak	9.040	-0.001	9214	2203			
C36	7.651	0.001	201304	78705	CREOSOT (C8-C22)	1143960	179
C38	7.907	-0.003	174383	65121			
C40	8.156	0.000	124864	32257	BUNKERC (C10-C38)	26173799	3028

Range Times: NW Diesel(3.678 - 5.853) NW Gas(1.398 - 3.678) NW M.Oil(5.853 - 7.959)
AK102(2.995 - 5.922) AK103(5.922 - 7.700) Jet A(2.995 - 4.879)

Surrogate	Area	Amount	%Rec
o-Terphenyl	6259	0.1	0.3
Triacontane	3359456	95.6	212.5

Analyte	RF	Curve Date
o-Terph Surr	43328.7	24-FEB-2010
Triacon Surr	35130.8	24-FEB-2010
Gas	31379.9	03-DEC-2009
Diesel	20723.6	02-OCT-2009
Motor Oil	22441.3	24-FEB-2010
AK102	25175.9	02-OCT-2009
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

Data File: /chem3/fid3a.i/20100224.b/0224a050.d

Date : 24-FEB-2010 21:39

Client ID:

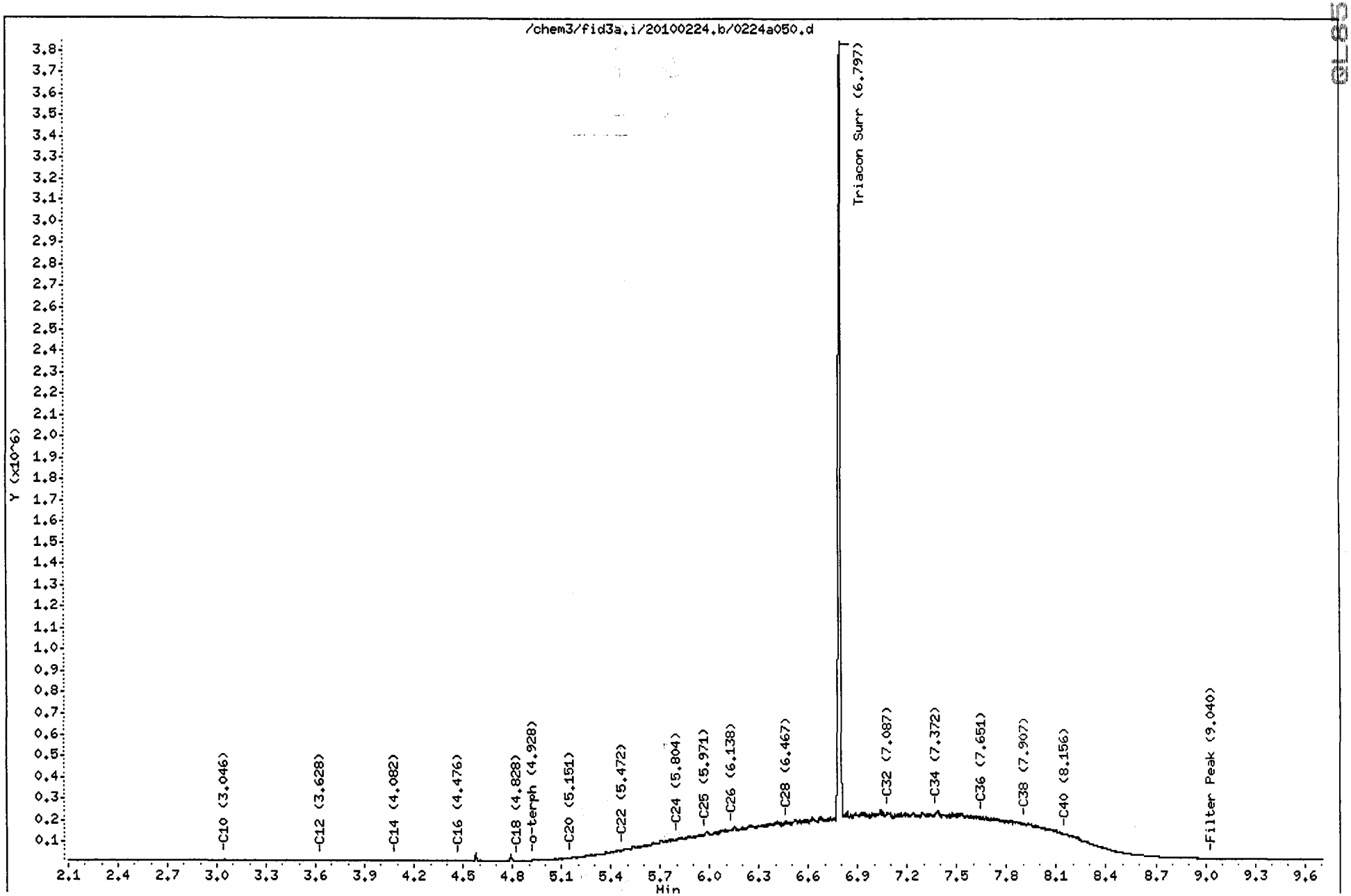
Sample Info: MOIL 1000

Column phase: ZB1-HT

Instrument: fid3a.i

Operator: ms

Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20100224.b/0224a051.d
Method: /chem3/fid3a.i/20100224.b/ftphfid3a.m
Instrument: fid3a.i
Operator: ms
Report Date: 03/03/2010
Macro: FID:3A022410

ARI ID: MOIL 2500
Client ID:
Injection: 24-FEB-2010 21:56
Dilution Factor: 1

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.438	-0.011	9460	13319	GAS (Tol-C12)	219433	7
C8	1.822	0.000	1875	223	DIESEL (C12-C24)	6256556	302
C10	3.047	0.002	7074	4381	M.OIL (C24-C38)	51137398	2279
C12	3.628	0.001	3568	2160	AK-102 (C10-C25)	7361263	292
C14	4.082	0.001	3964	2460	AK-103 (C25-C36)	45148109	5054
C16	4.477	0.001	3072	2506	OR.DIES (C10-C28)	20028753	950
C18	4.831	0.001	7852	7362	OR.MOIL (C28-C40)	39521171	3506
C20	5.149	-0.001	37925	22054	JET-A (C10-C18)	279812	18
C22	5.469	-0.001	122934	50060			
C24	5.801	-0.002	231815	86647	STODDARD (C8-C12)	144011	5
C25	5.972	0.000	284522	50914			
C26	6.143	0.004	342902	122283			
C28	6.467	-0.001	415345	98062			
C32	7.091	0.003	506175	206712			
C34	7.375	-0.001	474735	122447			
Filter Peak	9.043	0.002	11957	3316			
C36	7.648	-0.002	426362	116668	CREOSOT (C8-C22)	2436450	381
C38	7.913	0.003	263676	98646			
C40	8.159	0.003	97713	27217	BUNKERC (C10-C38)	57446809	6646

Range Times: NW Diesel(3.678 - 5.853) NW Gas(1.398 - 3.678) NW M.Oil(5.853 - 7.959)
AK102(2.995 - 5.922) AK103(5.922 - 7.700) Jet A(2.995 - 4.879)

Surrogate	Area	Amount	%Rec
o-Terphenyl	2292	0.1	0.1
Triacontane	7621059	216.9	482.1

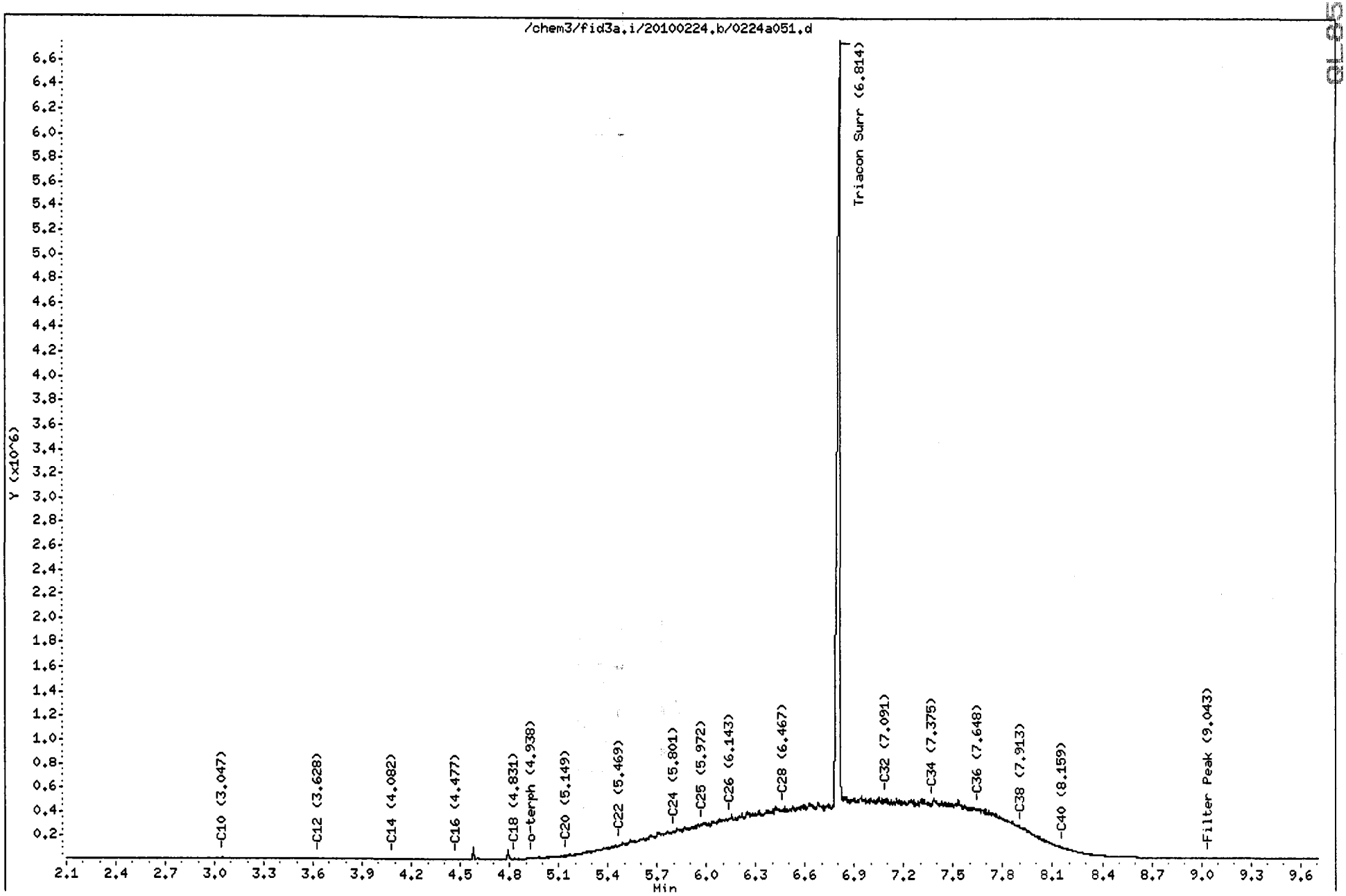
Analyte	RF	Curve Date
o-Terph Surr	43328.7	24-FEB-2010
Triacon Surr	35130.8	24-FEB-2010
Gas	31379.9	03-DEC-2009
Diesel	20723.6	02-OCT-2009
Motor Oil	22441.3	24-FEB-2010
AK102	25175.9	02-OCT-2009
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

Data File: /chem3/fid3a.i/20100224.b/0224a051.d
Date : 24-FEB-2010 21:56
Client ID:
Sample Info: MOIL 2500

Column phase: ZB1-HT

Instrument: fid3a.i

Operator: ms
Column diameter: 0.25



3/3/10

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20100224.b/0224a052.d
Method: /chem3/fid3a.i/20100224.b/ftphfid3a.m
Instrument: fid3a.i
Operator: ms
Report Date: 03/03/2010
Macro: FID:3A022410

ARI ID: MOIL 5000
Client ID:
Injection: 24-FEB-2010 22:13
Dilution Factor: 1

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.448	-0.001	5302	1474	GAS (Tol-C12)	245452	8
C8	1.823	0.001	1788	178	DIESEL (C12-C24)	12592304	608
C10	3.049	0.004	12800	7226	M.OIL (C24-C38)	91033308	4057
C12	3.629	0.001	6623	4568	AK-102 (C10-C25)	14806479	588
C14	4.082	0.001	6614	4097	AK-103 (C25-C36)	85050200	9521
C16	4.476	0.000	5270	4143	OR.DIES (C10-C28)	40313896	1912
C18	4.830	0.001	15620	11906	OR.MOIL (C28-C40)	64620144	5732
C20	5.152	0.002	75660	67102	JET-A (C10-C18)	477804	30
C22	5.469	-0.001	235486	37287			
C24	5.803	0.000	490888	179936	STODDARD (C8-C12)	166553	6
C25	5.971	-0.001	566016	134034			
C26	6.140	0.000	697745	340924			
C28	6.468	0.000	821739	147044			
C32	7.088	0.000	944363	351708			
C34	7.372	-0.004	843279	181487			
Filter Peak	9.042	0.001	18621	16187			
C36	7.647	-0.003	529358	228251	CREOSOT (C8-C22)	4766201	745
C38	7.908	-0.001	167766	62594			
C40	8.157	0.001	65946	19623	BUNKERC (C10-C38)	103700490	11998

Range Times: NW Diesel(3.678 - 5.853) NW Gas(1.398 - 3.678) NW M.Oil(5.853 - 7.959)
AK102(2.995 - 5.922) AK103(5.922 - 7.700) Jet A(2.995 - 4.879)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1351	0.0	0.1
Triacontane	14790268	421.0	935.6

Analyte	RF	Curve Date
o-Terph Surr	43328.7	24-FEB-2010
Triacon Surr	35130.8	24-FEB-2010
Gas	31379.9	03-DEC-2009
Diesel	20723.6	02-OCT-2009
Motor Oil	22441.3	24-FEB-2010
AK102	25175.9	02-OCT-2009
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

Data File: /chem3/fid3a.i/20100224.b/0224a052.d

Date : 24-FEB-2010 22:13

Client ID:

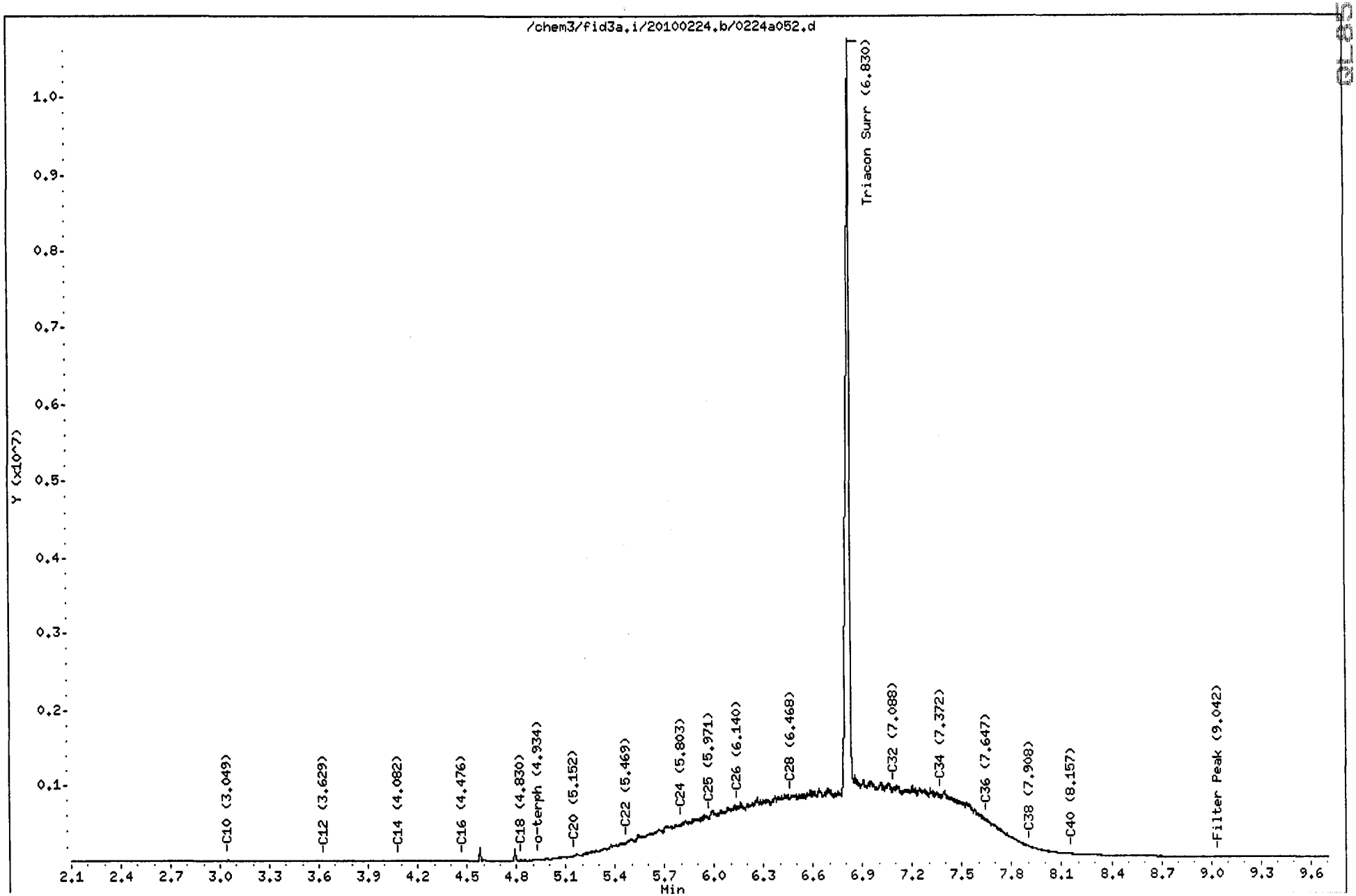
Sample Info: MOIL 5000

Column phase: ZB1-HT

Instrument: fid3a.i

Operator: ms

Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20100224.b/0224a053.d
Method: /chem3/fid3a.i/20100224.b/ftphfid3a.m
Instrument: fid3a.i
Operator: ms
Report Date: 03/03/2010
Macro: FID:3A022410

ARI ID: MOIL ICV
Client ID:
Injection: 24-FEB-2010 22:30
Dilution Factor: 1

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.456	0.008	6666	8107	GAS (Tol-C12)	179180	6
C8	1.822	-0.001	1771	417	DIESEL (C12-C24)	996619	48
C10	3.046	0.001	2641	1811	M.OIL (C24-C38)	9882955	440
C12	3.630	0.002	1252	879	AK-102 (C10-C25)	1205690	48
C14	4.083	0.003	1104	552	AK-103 (C25-C36)	8200030	918
C16	4.477	0.001	1117	788	OR.DIES (C10-C28)	3142071	149
C18	4.830	0.000	1916	1540	OR.MOIL (C28-C40)	9111270	808
C20	5.151	0.001	6518	6080	JET-A (C10-C18)	100086	6
C22	5.470	0.000	19519	7884			
C24	5.804	0.001	36858	14948	STODDARD (C8-C12)	118304	4
C25	5.970	-0.002	44829	17458			
C26	6.142	0.003	50574	8985			
C28	6.468	0.000	67144	13255			
C32	7.087	-0.001	94223	29660			
C34	7.375	-0.001	104733	32875			
Filter Peak	9.042	0.001	14105	564			
C36	7.648	-0.002	108590	56857	CREOSOT (C8-C22)	512421	80
C38	7.913	0.003	98171	42391			
C40	8.157	0.001	86272	32139	BUNKERC (C10-C38)	10918518	1263

Range Times: NW Diesel(3.678 - 5.853) NW Gas(1.398 - 3.678) NW M.Oil(5.853 - 7.959)
AK102(2.995 - 5.922) AK103(5.922 - 7.700) Jet A(2.995 - 4.879)

Surrogate	Area	Amount	%Rec
o-Terphenyl	3521	0.1	0.2
Triacontane	1667224	47.5	105.5

Analyte	RF	Curve Date
o-Terph Surr	43328.7	24-FEB-2010
Triacon Surr	35130.8	24-FEB-2010
Gas	31379.9	03-DEC-2009
Diesel	20723.6	02-OCT-2009
Motor Oil	22441.3	24-FEB-2010
AK102	25175.9	02-OCT-2009
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

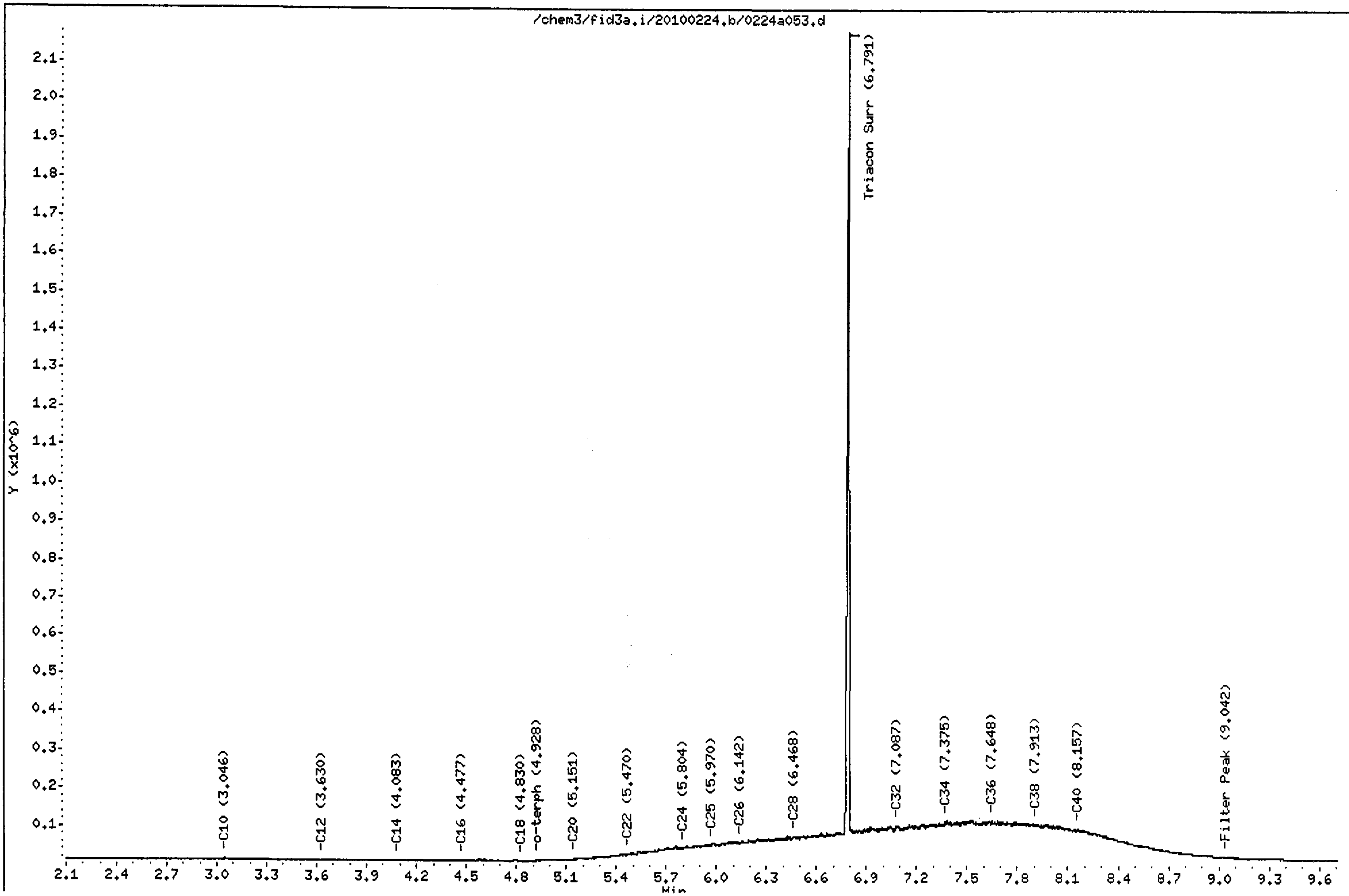
Data File: /chem3/fid3a.i/20100224.b/0224a053.d
Date : 24-FEB-2010 22:30
Client ID:
Sample Info: MOIL ICV

Column phase: ZB1-HT

Page 1

Instrument: fid3a.i

Operator: ms
Column diameter: 0.25



MS 3/3/10

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20100302.b/0302a003.d
Method: /chem3/fid3a.i/20100302.b/ftphfid3a.m
Instrument: fid3a.i
Operator: ms
Report Date: 03/03/2010
Macro: FID:3A030110

ARI ID: RT
Client ID:
Injection: 02-MAR-2010 19:00
Dilution Factor: 1

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.457	0.000	818092	721131	GAS (Tol-C12)	2301724	73
C8	1.830	0.000	321100	448294	DIESEL (C12-C24)	2934064	99
C10	3.045	0.000	971429	461371	M.OIL (C24-C38)	3808493	170
C12	3.628	0.000	1100905	452029	AK-102 (C10-C25)	3898166	117
C14	4.082	0.000	1094960	458720	AK-103 (C25-C36)	3286979	368
C16	4.476	0.000	1052818	464092	OR.DIES (C10-C28)	5559940	264
C18	4.829	0.000	1010965	471581	OR.MOIL (C28-C40)	2672206	237
C20	5.150	0.000	1031170	476475	JET-A (C10-C18)	2418843	153
C22	5.469	0.000	891996	475774			
C24	5.801	0.000	829432	482034	STODDARD (C8-C12)	1536424	56
C25	5.968	0.000	995175	665245			
C26	6.134	0.000	710957	486003			
C28	6.462	0.000	677204	483430			
C32	7.081	0.000	651065	495387			
C34	7.369	0.000	698682	494850			
Filter Peak	9.041	0.000	8266	1484			
C36	7.641	0.000	622615	511995	CREOSOT (C8-C22)	3973981	621
C38	7.900	0.000	555539	464257			
C40	8.147	0.000	528223	450816	BUNKERC (C10-C38)	7703158	891

Range Times: NW Diesel(3.678 - 5.851) NW Gas(1.407 - 3.678) NW M.Oil(5.851 - 7.950)
AK102(2.995 - 5.918) AK103(5.918 - 7.691) Jet A(2.995 - 4.879)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1838649	47.6	105.7
Triacontane	1673211	47.6	105.8

Analyte	RF	Curve Date
o-Terph Surr	38638.9	01-MAR-2010
Triacon Surr	35130.8	24-FEB-2010
Gas	31379.9	03-DEC-2009
Diesel	29779.8	01-MAR-2009
Motor Oil	22441.3	24-FEB-2010
AK102	33446.1	01-MAR-2009
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

Data File: /chem3/fid3a.i/20100302.b/0302a003.d

Date : 02-MAR-2010 19:00

Client ID:

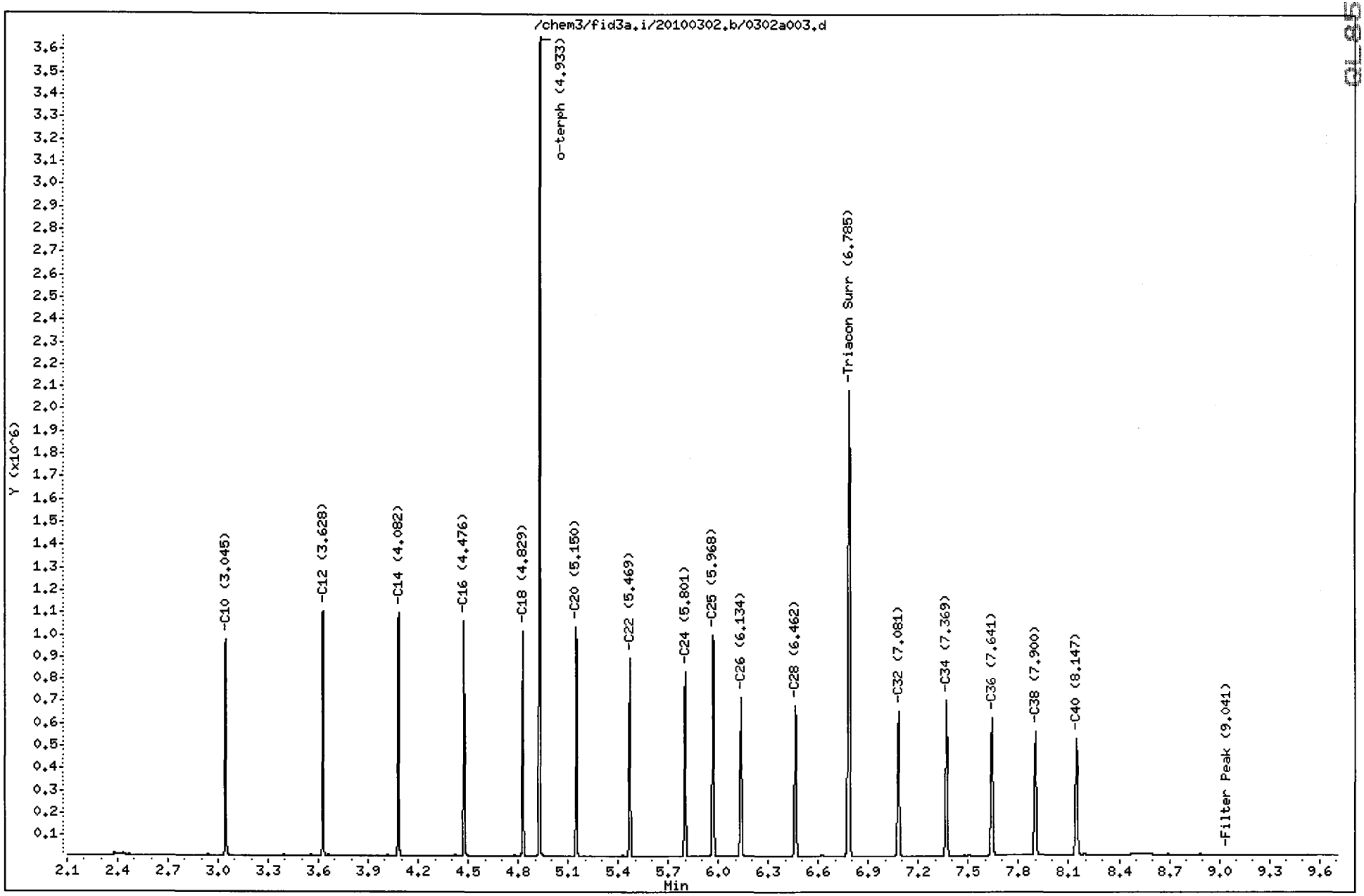
Sample Info: RT

Column phase: ZB1-HT

Instrument: fid3a.i

Operator: ms

Column diameter: 0.25



Mw 3/3/10

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20100302.b/0302a004.d
Method: /chem3/fid3a.i/20100302.b/ftphfid3a.m
Instrument: fid3a.i
Operator: ms
Report Date: 03/03/2010
Macro: FID:3A030110

ARI ID: IB
Client ID:
Injection: 02-MAR-2010 19:17
Dilution Factor: 1

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.452	-0.004	3801	2432	GAS (Tol-C12)	169907	5
C8	1.830	0.000	1695	168	DIESEL (C12-C24)	70938	2
C10	3.044	-0.001	2199	1683	M.OIL (C24-C38)	205516	9
C12	3.627	0.000	743	205	AK-102 (C10-C25)	107872	3
C14	4.083	0.001	588	111	AK-103 (C25-C36)	151832	17
C16	4.476	0.000	584	80	OR.DIES (C10-C28)	136594	6
C18	4.828	-0.001	596	228	OR.MOIL (C28-C40)	246045	22
C20	5.150	0.000	637	101	JET-A (C10-C18)	71374	5
C22	5.468	-0.001	647	187			
C24	5.801	0.001	675	66	STODDARD (C8-C12)	118180	4
C25	5.966	-0.001	706	194			
C26	6.134	0.000	756	148			
C28	6.460	-0.002	1755	1029			
C32	7.080	-0.001	4996	3404			
C34	7.369	0.000	2054	325			
Filter Peak	9.043	0.001	7586	1514			
C36	7.640	-0.001	2761	274	CREOSOT (C8-C22)	177153	28
C38	7.899	-0.001	3847	383			
C40	8.144	-0.003	5387	536	BUNKERC (C10-C38)	311010	36

Range Times: NW Diesel(3.678 - 5.851) NW Gas(1.407 - 3.678) NW M.Oil(5.851 - 7.950)
AK102(2.995 - 5.918) AK103(5.918 - 7.691) Jet A(2.995 - 4.879)

Surrogate	Area	Amount	%Rec
o-Terphenyl	2408413	62.3	138.5
Triacontane	1768180	50.3	111.8

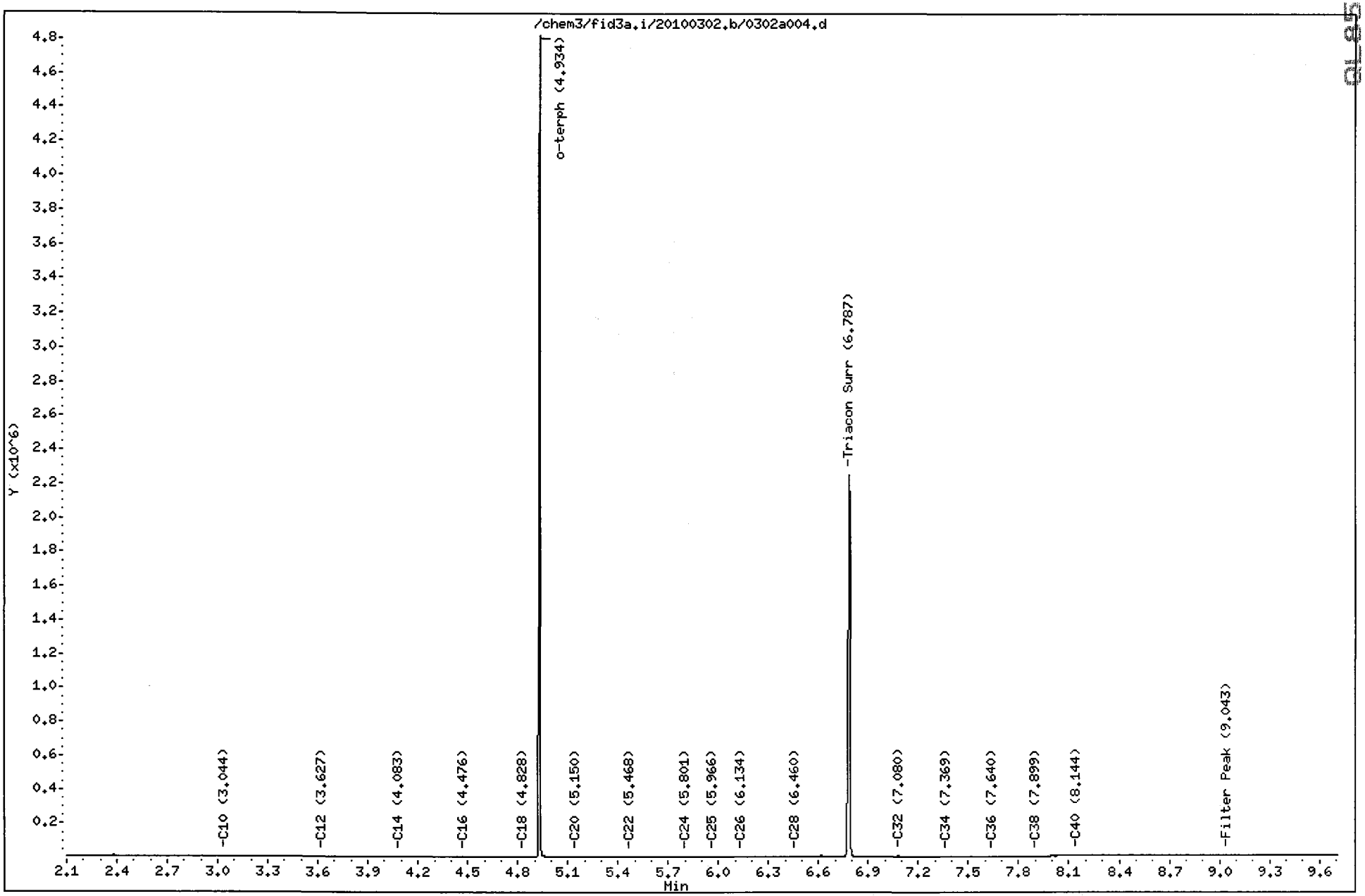
Analyte	RF	Curve Date
o-Terph Surr	38638.9	01-MAR-2010
Triacon Surr	35130.8	24-FEB-2010
Gas	31379.9	03-DEC-2009
Diesel	29779.8	01-MAR-2009
Motor Oil	22441.3	24-FEB-2010
AK102	33446.1	01-MAR-2009
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

Data File: /chem3/fid3a.i/20100302.b/0302a004.d
Date : 02-MAR-2010 19:17
Client ID:
Sample Info: IB

Column phase: ZB1-HT

Instrument: fid3a.i

Operator: ms
Column diameter: 0.25



7a

DIESEL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: FLOYD-SNIDER

ICal Date: 01-MAR-2009 Project: LORA LAKE APTS.

CCal Date: 02-MAR-2010 SDG No.: QL85

Analysis Time: 19:35 Lab ID: DIESEL#1

Instrument: FID3A.I Lab File Name: 0302a005.d

Diesel Range	Area*	CalcAmnt	NomAmnt	% D
WADies(C12-C24)	7493990	251.6	250	0.7
AK102 (C10-C25)	8390155	250.9	250	0.3
Terphenyl	1780045	46.1	45	2.4

* Surrogate areas are subtracted from range areas
<- Indicates a %D outside QC limits

Quant Ranges : WA Diesel C12-C24
AK Diesel C10-C25

Mo 3/3/10

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20100302.b/0302a005.d
Method: /chem3/fid3a.i/20100302.b/ftphfid3a.m
Instrument: fid3a.i
Operator: ms
Report Date: 03/03/2010
Macro: FID:3A030110

ARI ID: DIESEL#1
Client ID:
Injection: 02-MAR-2010 19:35
Dilution Factor: 1

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.462	0.005	16297	18787	GAS (Tol-C12)	1291615	41
C8	1.833	0.002	5201	10971	DIESEL (C12-C24)	7493990	252
C10	3.044	-0.001	44470	23377	M.OIL (C24-C38)	339670	15
C12	3.627	-0.001	113688	82052	AK-102 (C10-C25)	8390155	251
C14	4.081	-0.001	208866	126785	AK-103 (C25-C36)	259475	29
C16	4.476	0.000	384260	242265	OR.DIES (C10-C28)	8494778	403
C18	4.828	-0.001	344995	221170	OR.MOIL (C28-C40)	291308	26
C20	5.149	-0.001	212419	128895	JET-A (C10-C18)	6118036	386
C22	5.468	-0.002	87324	62871			
C24	5.799	-0.002	24449	24315	STODDARD (C8-C12)	1218680	44
C25	5.965	-0.002	11052	13591			
C26	6.131	-0.003	5179	5624			
C28	6.461	-0.001	2090	532			
C32	7.087	0.005	3458	5088			
C34	7.369	0.000	2616	260			
Filter Peak	9.042	0.001	7016	701			
C36	7.641	0.000	3178	316	CREOSOT (C8-C22)	8433018	1318
C38	7.900	0.001	4117	328			
C40	8.148	0.001	5946	1988	BUNKERC (C10-C38)	8707009	1007

Range Times: NW Diesel(3.678 - 5.851) NW Gas(1.407 - 3.678) NW M.Oil(5.851 - 7.950)
AK102(2.995 - 5.918) AK103(5.918 - 7.691) Jet A(2.995 - 4.879)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1780045	46.1	102.4
Triacontane	8638	0.2	0.5

Analyte	RF	Curve Date
o-Terph Surr	38638.9	01-MAR-2010
Triacon Surr	35130.8	24-FEB-2010
Gas	31379.9	03-DEC-2009
Diesel	29779.8	01-MAR-2009
Motor Oil	22441.3	24-FEB-2010
AK102	33446.1	01-MAR-2009
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

Data File: /chem3/fid3a.i/20100302.b/0302a005.d

Date : 02-MAR-2010 19:35

Client ID:

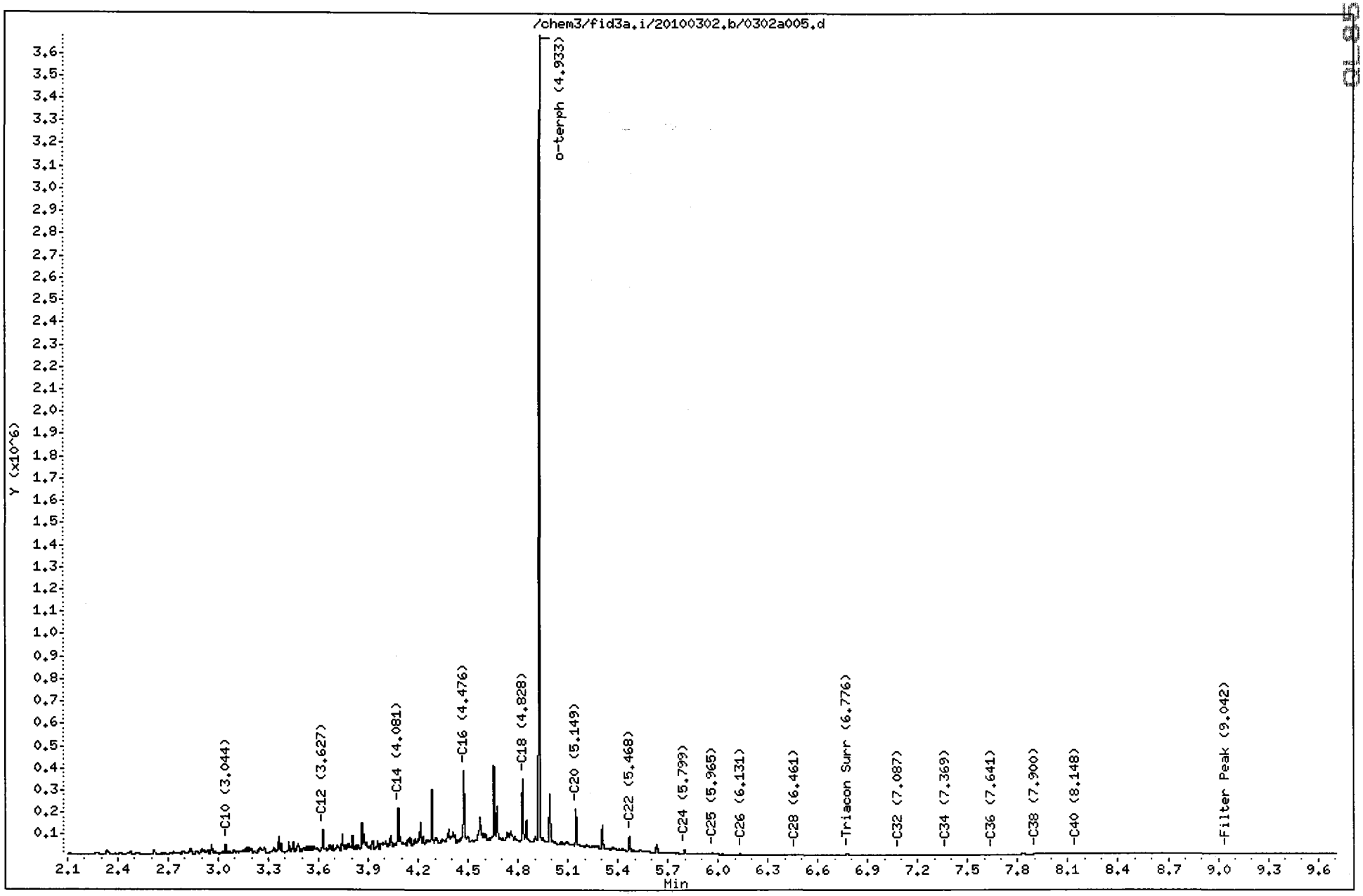
Sample Info: DIESEL#1

Column phase: ZB1-HT

Instrument: fid3a.i

Operator: ms

Column diameter: 0.25



7a

MOTOR OIL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: FLOYD-SNIDER

ICal Date: 24-FEB-2010 Project: LORA LAKE APTS.

CCal Date: 02-MAR-2010 SDG No.: QL85

Analysis Time: 19:52 Lab ID: MOIL#1

Instrument: FID3A.I Lab File Name: 0302a006.d

M.oil Range	Area*	CalcAmnt	NomAmnt	% D	
WAMoil(C24-C38)	11335822	505.1	500	1.0	
AK103 (C25-C36)	9721455	1088.3	500	117.7	<-
n-Triacontane	1618107	46.1	45	2.4	

* Surrogate areas are subtracted from range areas
<- Indicates a %D outside QC limits

Quant Ranges : WA M.Oil C24-C38
AK M.Oil C25-C36

MS 3/3/10

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20100302.b/0302a006.d
Method: /chem3/fid3a.i/20100302.b/ftphfid3a.m
Instrument: fid3a.i
Operator: ms
Report Date: 03/03/2010
Macro: FID:3A030110

ARI ID: MOIL#1
Client ID:
Injection: 02-MAR-2010 19:52
Dilution Factor: 1

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.459	0.002	9984	12473	GAS (Tol-C12)	191488	6
C8	1.830	-0.001	1901	1315	DIESEL (C12-C24)	1355587	46
C10	3.045	0.000	2512	1640	M.OIL (C24-C38)	11335822	505
C12	3.628	0.000	1716	1342	AK-102 (C10-C25)	1616676	48
C14	4.082	0.000	1763	1356	AK-103 (C25-C36)	9721455	1088
C16	4.476	0.000	2607	1957	OR.DIES (C10-C28)	4213743	200
C18	4.828	-0.001	3253	2694	OR.MOIL (C28-C40)	9695392	860
C20	5.149	-0.001	9136	7539	JET-A (C10-C18)	135792	9
C22	5.470	0.001	27083	13417			
C24	5.800	0.000	49832	15665	STODDARD (C8-C12)	129938	5
C25	5.967	-0.001	61295	15689			
C26	6.132	-0.002	68800	12265			
C28	6.463	0.001	86130	20323			
C32	7.081	0.000	107665	46687			
C34	7.369	0.001	111394	47413			
Filter Peak	9.036	-0.005	14583	10769			
C36	7.646	0.005	104675	54509	CREOSOT (C8-C22)	667911	104
C38	7.897	-0.003	90281	25072			
C40	8.146	-0.001	77187	33398	BUNKERC (C10-C38)	12734077	1473

Range Times: NW Diesel(3.678 - 5.851) NW Gas(1.407 - 3.678) NW M.Oil(5.851 - 7.950)
AK102(2.995 - 5.918) AK103(5.918 - 7.691) Jet A(2.995 - 4.879)

Surrogate	Area	Amount	%Rec
o-Terphenyl	13788	0.4	0.8
Triacontane	1618107	46.1	102.4

Analyte	RF	Curve Date
o-Terph Surr	38638.9	01-MAR-2010
Triacon Surr	35130.8	24-FEB-2010
Gas	31379.9	03-DEC-2009
Diesel	29779.8	01-MAR-2009
Motor Oil	22441.3	24-FEB-2010
AK102	33446.1	01-MAR-2009
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

Data File: /chem3/fid3a.i/20100302.b/0302a006.d

Date : 02-MAR-2010 19:52

Client ID:

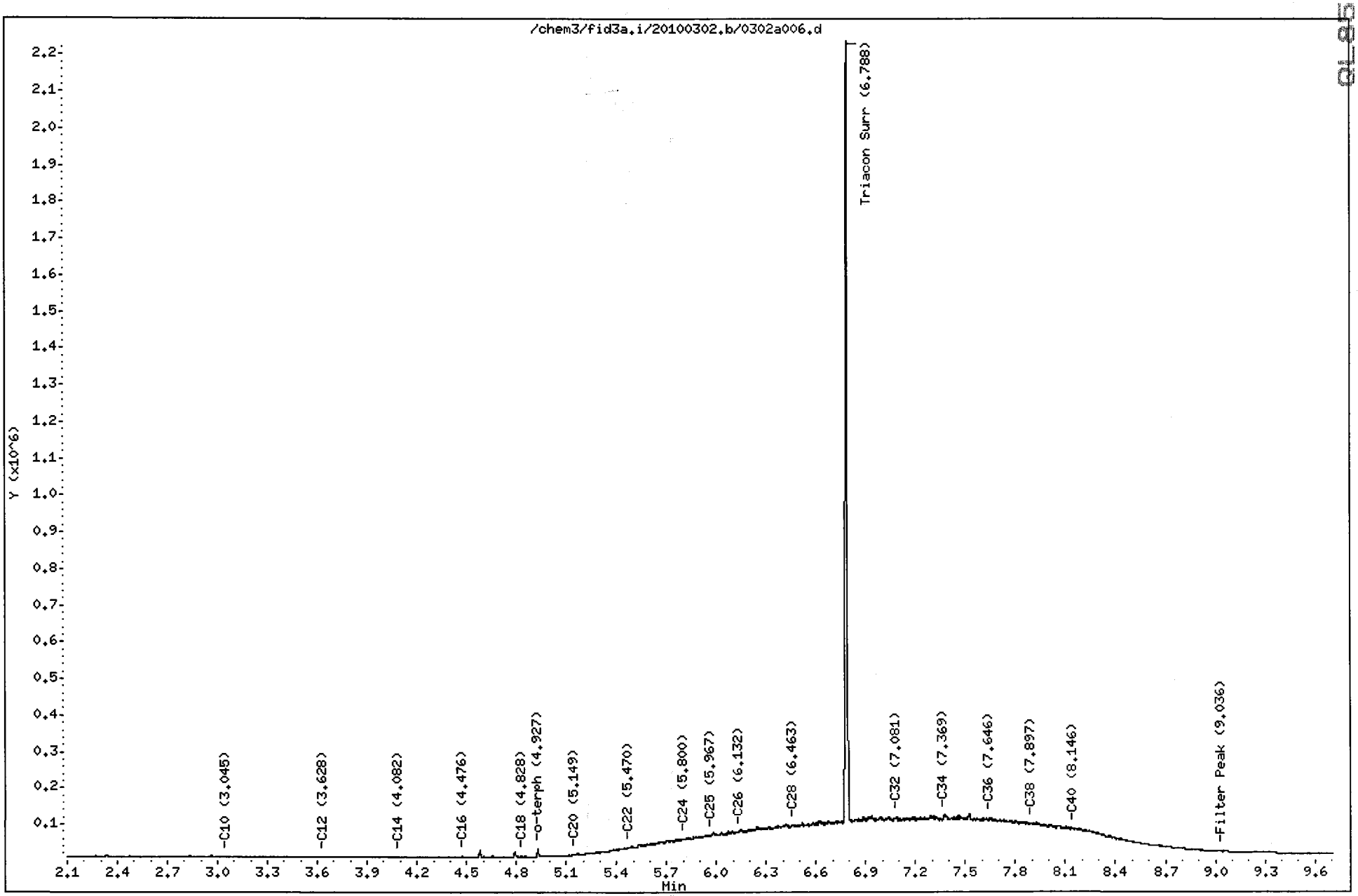
Sample Info: MOIL#1

Column phase: ZB1-HT

Instrument: fid3a.i

Operator: ms

Column diameter: 0.25



7a

DIESEL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: FLOYD-SNIDER

ICal Date: 01-MAR-2009 Project: LORA LAKE APTS.

CCal Date: 02-MAR-2010 SDG No.: QL85

Analysis Time: 22:27 Lab ID: DIESEL#2

Instrument: FID3A.I Lab File Name: 0302a015.d

Diesel Range	Area*	CalcAmnt	NomAmnt	% D
WADies(C12-C24)	7480041	251.2	250	0.5
AK102 (C10-C25)	8375225	250.4	250	0.2
Terphenyl	1788187	46.3	45	2.8

* Surrogate areas are subtracted from range areas
<- Indicates a %D outside QC limits

Quant Ranges : WA Diesel C12-C24
AK Diesel C10-C25

MW 3/3/10

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20100302.b/0302a015.d
Method: /chem3/fid3a.i/20100302.b/ftphfid3a.m
Instrument: fid3a.i
Operator: ms
Report Date: 03/03/2010
Macro: FID:3A030110

ARI ID: DIESEL#2
Client ID:
Injection: 02-MAR-2010 22:27
Dilution Factor: 1

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.464	0.007	17118	19655	GAS (Tol-C12)	1293970	41
C8	1.835	0.005	5499	7054	DIESEL (C12-C24)	7480041	251
C10	3.045	0.000	45189	23363	M.OIL (C24-C38)	287503	13
C12	3.627	0.000	114041	79346	AK-102 (C10-C25)	8375225	250
C14	4.081	0.000	212220	123448	AK-103 (C25-C36)	219289	25
C16	4.476	0.000	384129	228466	OR.DIES (C10-C28)	8465747	401
C18	4.829	0.001	330832	215352	OR.MOIL (C28-C40)	229298	20
C20	5.150	0.000	201560	130465	JET-A (C10-C18)	6091414	384
C22	5.468	-0.001	81532	65535			
C24	5.799	-0.001	23934	22563	STODDARD (C8-C12)	1212140	44
C25	5.967	-0.001	10601	11386			
C26	6.133	0.000	4733	5423			
C28	6.460	-0.001	1688	466			
C32	7.088	0.007	3808	5047			
C34	7.368	0.000	2092	499			
Filter Peak	9.041	0.000	5471	1201			
C36	7.641	0.000	2457	293	CREOSOT (C8-C22)	8418132	1316
C38	7.900	0.001	3123	437			
C40	8.149	0.003	4442	2061	BUNKERC (C10-C38)	8638903	1000

Range Times: NW Diesel(3.678 - 5.851) NW Gas(1.407 - 3.678) NW M.Oil(5.851 - 7.950)
AK102(2.995 - 5.918) AK103(5.918 - 7.691) Jet A(2.995 - 4.879)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1788187	46.3	102.8
Triacontane	7402	0.2	0.5

Analyte	RF	Curve Date
o-Terph Surr	38638.9	01-MAR-2010
Triacon Surr	35130.8	24-FEB-2010
Gas	31379.9	03-DEC-2009
Diesel	29779.8	01-MAR-2009
Motor Oil	22441.3	24-FEB-2010
AK102	33446.1	01-MAR-2009
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

Data File: /chem3/fid3a.i/20100302.b/0302a015.d

Date : 02-MAR-2010 22:27

Client ID:

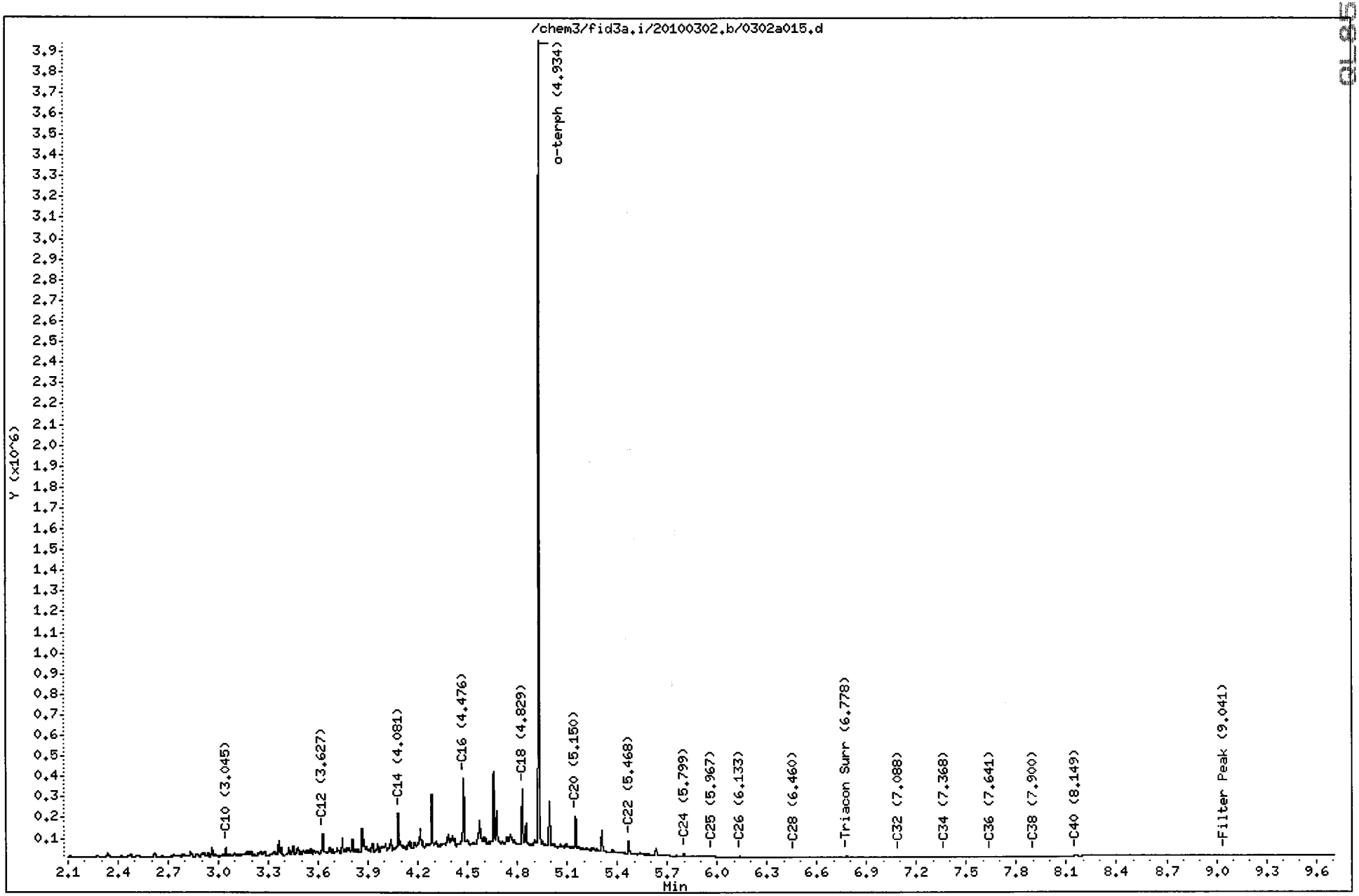
Sample Info: DIESEL#2

Column phase: ZB1-HT

Instrument: fid3a.i

Operator: ms

Column diameter: 0.25



7a

MOTOR OIL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: FLOYD-SNIDER

ICal Date: 24-FEB-2010 Project: LORA LAKE APTS.

CCal Date: 02-MAR-2010 SDG No.: QL85

Analysis Time: 22:45 Lab ID: MOIL#2

Instrument: FID3A.I Lab File Name: 0302a016.d

M.oil Range	Area*	CalcAmnt	NomAmnt	% D	
WAMoil(C24-C38)	11407927	508.3	500	1.7	
AK103 (C25-C36)	9766069	1093.3	500	118.7	<-
n-Triacontane	1623267	46.2	45	2.7	

* Surrogate areas are subtracted from range areas
<- Indicates a %D outside QC limits

Quant Ranges : WA M.Oil C24-C38
AK M.Oil C25-C36

Mw 3/3/10

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20100302.b/0302a016.d
Method: /chem3/fid3a.i/20100302.b/ftphfid3a.m
Instrument: fid3a.i
Operator: ms
Report Date: 03/03/2010
Macro: FID:3A030110

ARI ID: MOIL#2
Client ID:
Injection: 02-MAR-2010 22:45
Dilution Factor: 1

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.461	0.004	11027	12807	GAS (Tol-C12)	194223	6
C8	1.833	0.002	2229	812	DIESEL (C12-C24)	1338748	45
C10	3.045	0.000	2557	1725	M.OIL (C24-C38)	11407927	508
C12	3.628	0.000	1626	1112	AK-102 (C10-C25)	1600602	48
C14	4.081	-0.001	1666	693	AK-103 (C25-C36)	9766069	1093
C16	4.476	0.000	2413	1792	OR.DIES (C10-C28)	4211632	200
C18	4.828	-0.001	3160	2367	OR.MOIL (C28-C40)	9738841	864
C20	5.148	-0.002	9271	8100	JET-A (C10-C18)	122102	8
C22	5.472	0.002	26792	11503			
C24	5.801	0.001	48459	4838	STODDARD (C8-C12)	129983	5
C25	5.968	0.000	61696	12130			
C26	6.135	0.001	70000	17942			
C28	6.462	0.000	87719	29277			
C32	7.080	-0.001	110599	39310			
C34	7.366	-0.003	110031	62556			
Filter Peak	9.042	0.000	12950	1292			
C36	7.639	-0.003	103800	52712	CREOSOT (C8-C22)	647509	101
C38	7.900	0.000	88671	31633			
C40	8.144	-0.003	75191	35692	BUNKERC (C10-C38)	12788568	1480

Range Times: NW Diesel(3.678 - 5.851) NW Gas(1.407 - 3.678) NW M.Oil(5.851 - 7.950)
AK102(2.995 - 5.918) AK103(5.918 - 7.691) Jet A(2.995 - 4.879)

Surrogate	Area	Amount	%Rec
o-Terphenyl	13676	0.4	0.8
Triacontane	1623267	46.2	102.7

Analyte	RF	Curve Date
o-Terph Surr	38638.9	01-MAR-2010
Triacon Surr	35130.8	24-FEB-2010
Gas	31379.9	03-DEC-2009
Diesel	29779.8	01-MAR-2009
Motor Oil	22441.3	24-FEB-2010
AK102	33446.1	01-MAR-2009
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

Data File: /chem3/fid3a.i/20100302.b/0302a016.d

Date : 02-MAR-2010 22:45

Client ID:

Sample Info: MOIL#2

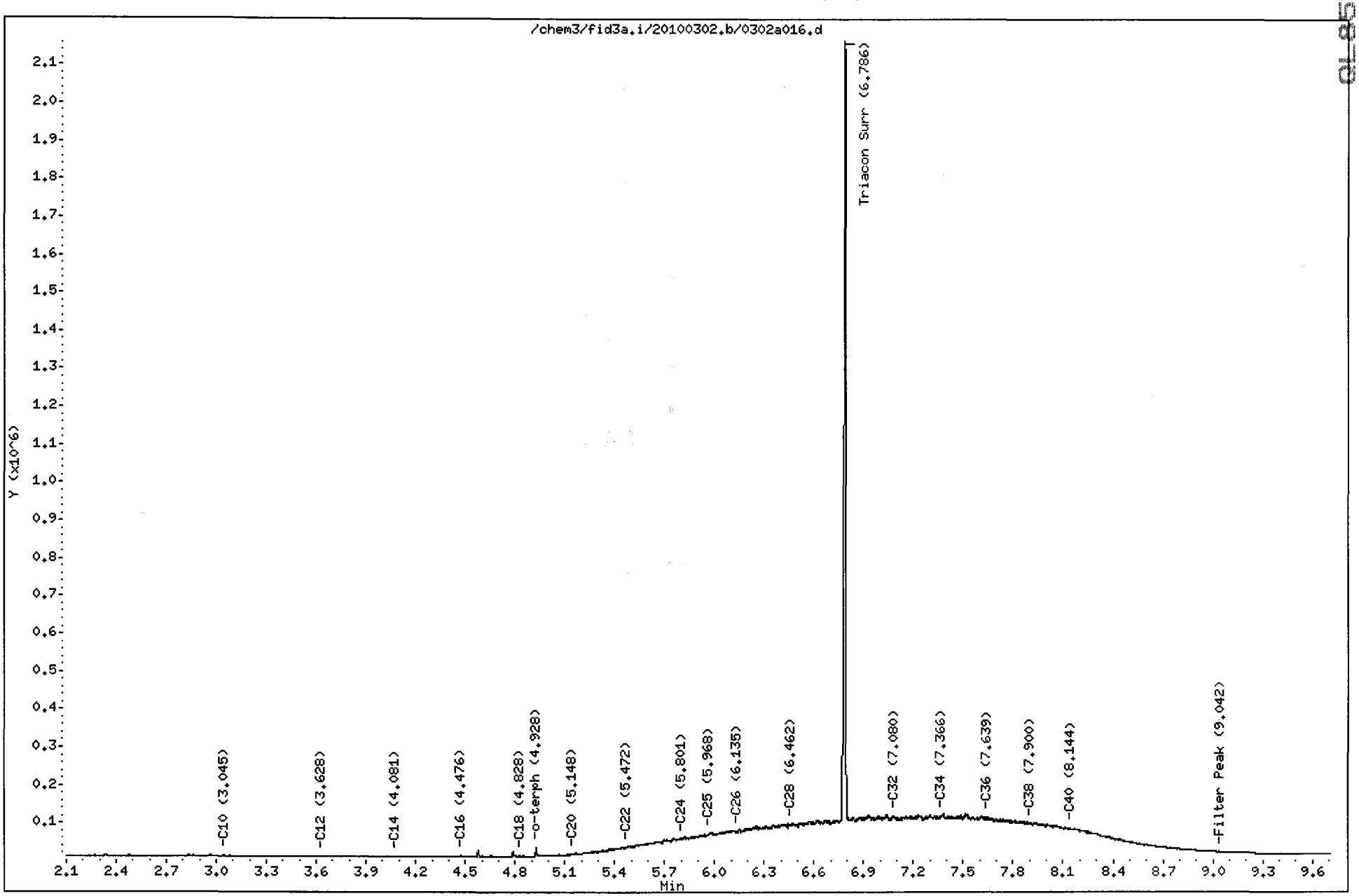
Column phase: ZB1-HT

Instrument: fid3a.i

Operator: ms

Column diameter: 0.25

01-85-00716



TPHD Analysis
QC Raw Data

prepared
for

Floyd-Snider

Project: Lora Lakes Apartments, POS-LLA

ARI JOB NO: QL85

prepared
by

Analytical Resources, Inc.

Mar 3/3/10

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20100302.b/0302a007.d
Method: /chem3/fid3a.i/20100302.b/ftphfid3a.m
Instrument: fid3a.i
Operator: ms
Report Date: 03/03/2010
Macro: FID:3A030110

ARI ID: QL85MBW1
Client ID: QL85MBW1
Injection: 02-MAR-2010 20:09
Dilution Factor: 1

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.459	0.003	5944	6881	GAS (Tol-C12)	242652	8
C8	1.831	0.001	1756	344	DIESEL (C12-C24)	194528	7
C10	3.046	0.001	2605	2249	M.OIL (C24-C38)	436371	19
C12	3.628	0.000	1132	772	AK-102 (C10-C25)	279374	8
C14	4.080	-0.001	1026	784	AK-103 (C25-C36)	377743	42
C16	4.476	0.000	1565	973	OR.DIES (C10-C28)	316184	15
C18	4.828	-0.001	1364	731	OR.MOIL (C28-C40)	460338	41
C20	5.151	0.001	1778	1305	JET-A (C10-C18)	168597	11
C22	5.471	0.002	2809	2629			
C24	5.801	0.000	1105	131	STODDARD (C8-C12)	188136	7
C25	5.968	0.001	1189	226			
C26	6.135	0.001	1002	234			
C28	6.462	0.000	1805	1179			
C32	7.080	-0.001	4381	5969			
C34	7.370	0.001	2846	678			
Filter Peak	9.040	-0.001	6590	1051			
C36	7.646	0.005	4080	651	CREOSOT (C8-C22)	352449	55
C38	7.898	-0.001	3770	902			
C40	8.149	0.002	5201	1547	BUNKERC (C10-C38)	710515	82

Range Times: NW Diesel(3.678 - 5.851) NW Gas(1.407 - 3.678) NW M.Oil(5.851 - 7.950)
AK102(2.995 - 5.918) AK103(5.918 - 7.691) Jet A(2.995 - 4.879)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1394637	36.1	80.2
Triacontane	1357812	38.7	85.9

Analyte	RF	Curve Date
o-Terph Surr	38638.9	01-MAR-2010
Triacon Surr	35130.8	24-FEB-2010
Gas	31379.9	03-DEC-2009
Diesel	29779.8	01-MAR-2009
Motor Oil	22441.3	24-FEB-2010
AK102	33446.1	01-MAR-2009
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

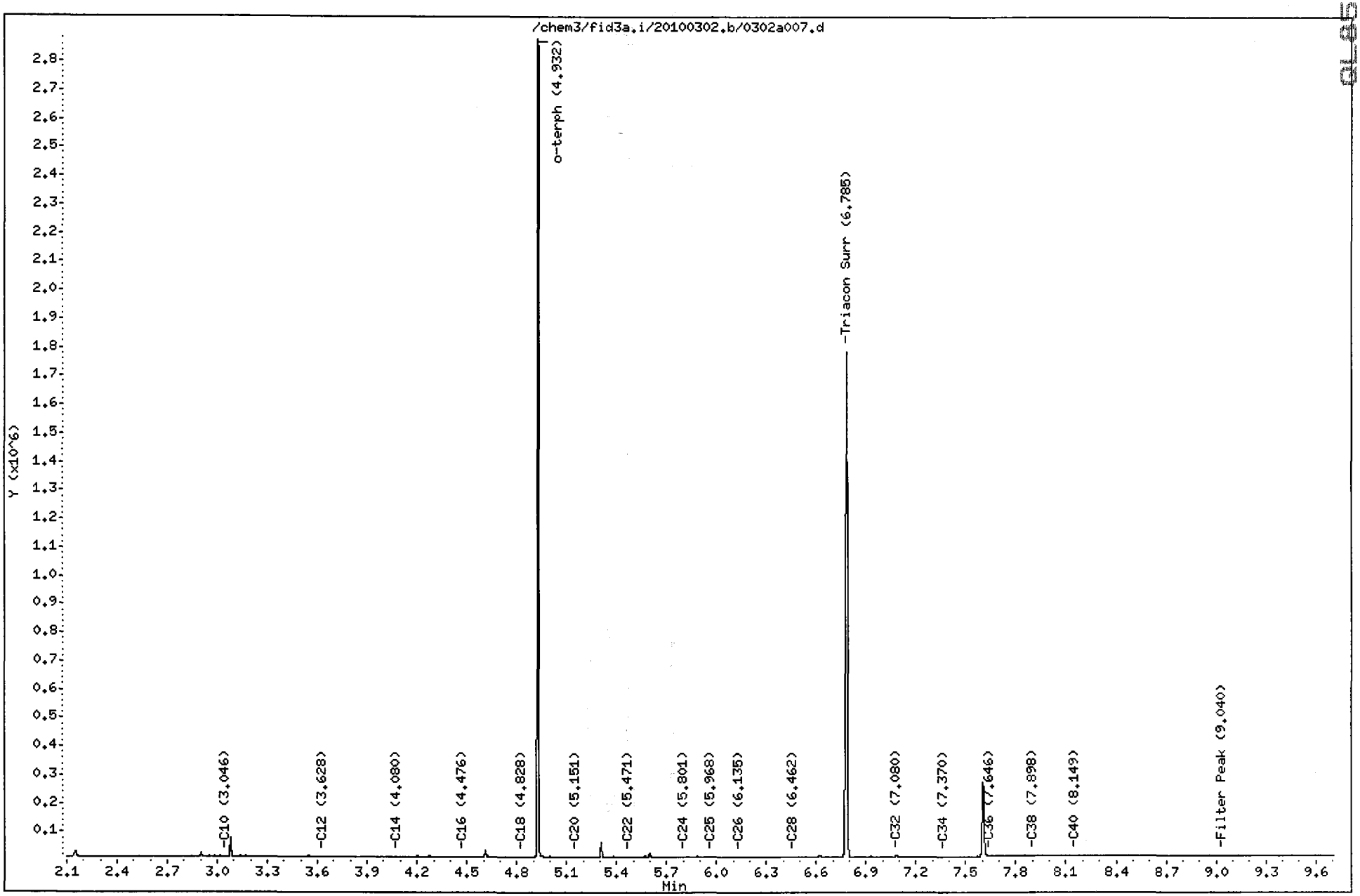
Data File: /chem3/fid3a.i/20100302.b/0302a007.d
Date : 02-MAR-2010 20:09
Client ID: QL85MBW1
Sample Info: QL85MBW1

Column phase: ZB1-HT

Instrument: fid3a.i

Operator: ms
Column diameter: 0.25

QL85-69751



3/3/10

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20100302.b/0302a010.d
Method: /chem3/fid3a.i/20100302.b/ftphfid3a.m
Instrument: fid3a.i
Operator: ms
Report Date: 03/03/2010
Macro: FID:3A030110

ARI ID: QL85AMS
Client ID: CB31A022610GRAB MS
Injection: 02-MAR-2010 21:01
Dilution Factor: 1

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.459	0.003	30351	27937	GAS (Tol-C12)	3683664	117
C8	1.829	-0.001	9491	18252	DIESEL (C12-C24)	29049609	975
C10	3.045	0.000	143332	75305	M.OIL (C24-C38)	6468498	288
C12	3.628	0.001	398674	290404	AK-102 (C10-C25)	32119058	960
C14	4.082	0.000	779720	448740	AK-103 (C25-C36)	5773066	646
C16	4.478	0.002	1486729	914692	OR.DIES (C10-C28)	34645368	1643
C18	4.831	0.003	1428765	903722	OR.MOIL (C28-C40)	3959437	351
C20	5.151	0.002	900511	555061	JET-A (C10-C18)	21890562	1381
C22	5.470	0.001	380831	309861			
C24	5.800	0.000	154535	154795	STODDARD (C8-C12)	3579147	129
C25	5.969	0.001	110322	123343			
C26	6.134	0.000	87794	48150			
C28	6.459	-0.002	75783	53082			
C32	7.082	0.001	58337	89374			
C34	7.369	0.000	47467	52550			
Filter Peak	9.041	0.000	7805	623			
C36	7.638	-0.003	36537	43159	CREOSOT (C8-C22)	30738653	4806
C38	7.902	0.003	27464	12044			
C40	8.147	0.000	22187	18280	BUNKERC (C10-C38)	38285815	4430

Range Times: NW Diesel(3.678 - 5.851) NW Gas(1.407 - 3.678) NW M.Oil(5.851 - 7.950)
AK102(2.995 - 5.918) AK103(5.918 - 7.691) Jet A(2.995 - 4.879)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1318424	34.1	75.8
Triacontane	1210196	34.4	76.6

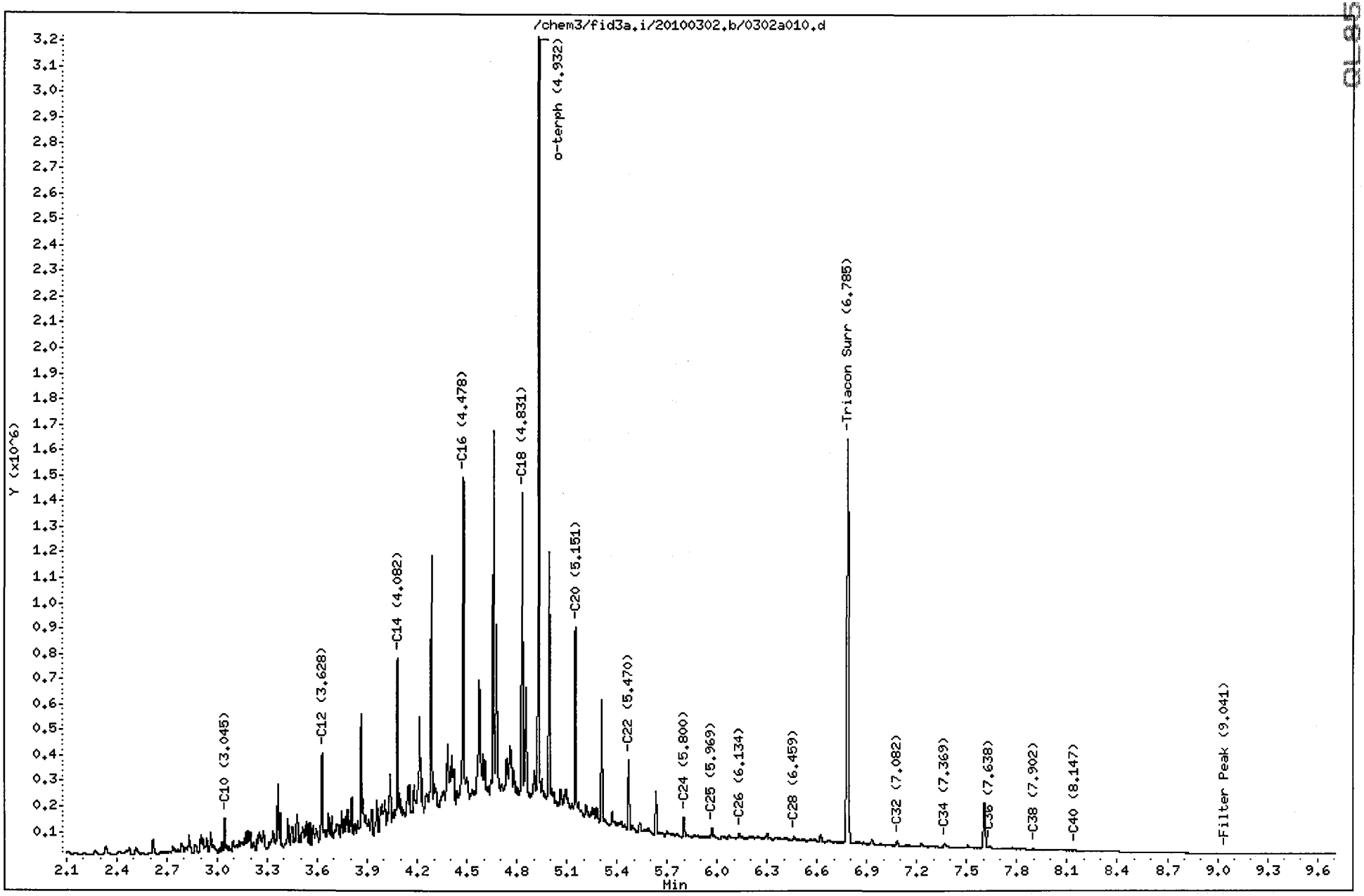
Analyte	RF	Curve Date
o-Terph Surr	38638.9	01-MAR-2010
Triacon Surr	35130.8	24-FEB-2010
Gas	31379.9	03-DEC-2009
Diesel	29779.8	01-MAR-2009
Motor Oil	22441.3	24-FEB-2010
AK102	33446.1	01-MAR-2009
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

Data File: /chem3/fid3a.i/20100302.b/0302a010.d
Date : 02-MAR-2010 21:01
Client ID: CB31A022610GRAB MS
Sample Info: QL85AMS

Column phase: ZB1-HT

Instrument: fid3a.i

Operator: ms
Column diameter: 0.25



Mo 3/3/10

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20100302.b/0302a011.d
Method: /chem3/fid3a.i/20100302.b/ftphfid3a.m
Instrument: fid3a.i
Operator: ms
Report Date: 03/03/2010
Macro: FID:3A030110

ARI ID: QL85AMSD
Client ID: CB31A022610GRAB MSD
Injection: 02-MAR-2010 21:18
Dilution Factor: 1

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.457	0.001	29080	27338	GAS (Tol-C12)	3626823	116
C8	1.826	-0.004	8712	16690	DIESEL (C12-C24)	28906106	971
C10	3.044	-0.001	142488	72417	M.OIL (C24-C38)	5624357	251
C12	3.628	0.000	413277	286539	AK-102 (C10-C25)	31884407	953
C14	4.082	0.000	734859	443557	AK-103 (C25-C36)	4964638	556
C16	4.478	0.002	1502212	998044	OR.DIES (C10-C28)	33905878	1608
C18	4.831	0.002	1341933	847741	OR.MOIL (C28-C40)	3666050	325
C20	5.152	0.002	865281	555388	JET-A (C10-C18)	21772174	1374
C22	5.470	0.000	391118	294383			
C24	5.799	-0.001	145931	139446	STODDARD (C8-C12)	3523448	127
C25	5.967	-0.001	99396	107172			
C26	6.133	-0.001	73798	83482			
C28	6.461	-0.001	67926	64623			
C32	7.080	-0.001	53582	39898			
C34	7.367	-0.002	45820	59958			
Filter Peak	9.041	0.000	8053	482			
C36	7.639	-0.002	36545	45607	CREOSOT (C8-C22)	30700336	4800
C38	7.900	0.000	28615	12200			
C40	8.146	-0.001	23246	11829	BUNKERC (C10-C38)	37260164	4311

Range Times: NW Diesel(3.678 - 5.851) NW Gas(1.407 - 3.678) NW M.Oil(5.851 - 7.950)
AK102(2.995 - 5.918) AK103(5.918 - 7.691) Jet A(2.995 - 4.879)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1328426	34.4	76.4
Triacontane	1216925	34.6	77.0

Analyte	RF	Curve Date
o-Terph Surr	38638.9	01-MAR-2010
Triacon Surr	35130.8	24-FEB-2010
Gas	31379.9	03-DEC-2009
Diesel	29779.8	01-MAR-2009
Motor Oil	22441.3	24-FEB-2010
AK102	33446.1	01-MAR-2009
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

Data File: /chem3/fid3a.i/20100302.b/0302a011.d

Date : 02-MAR-2010 21:18

Client ID: CB31A022610GRAB MSD

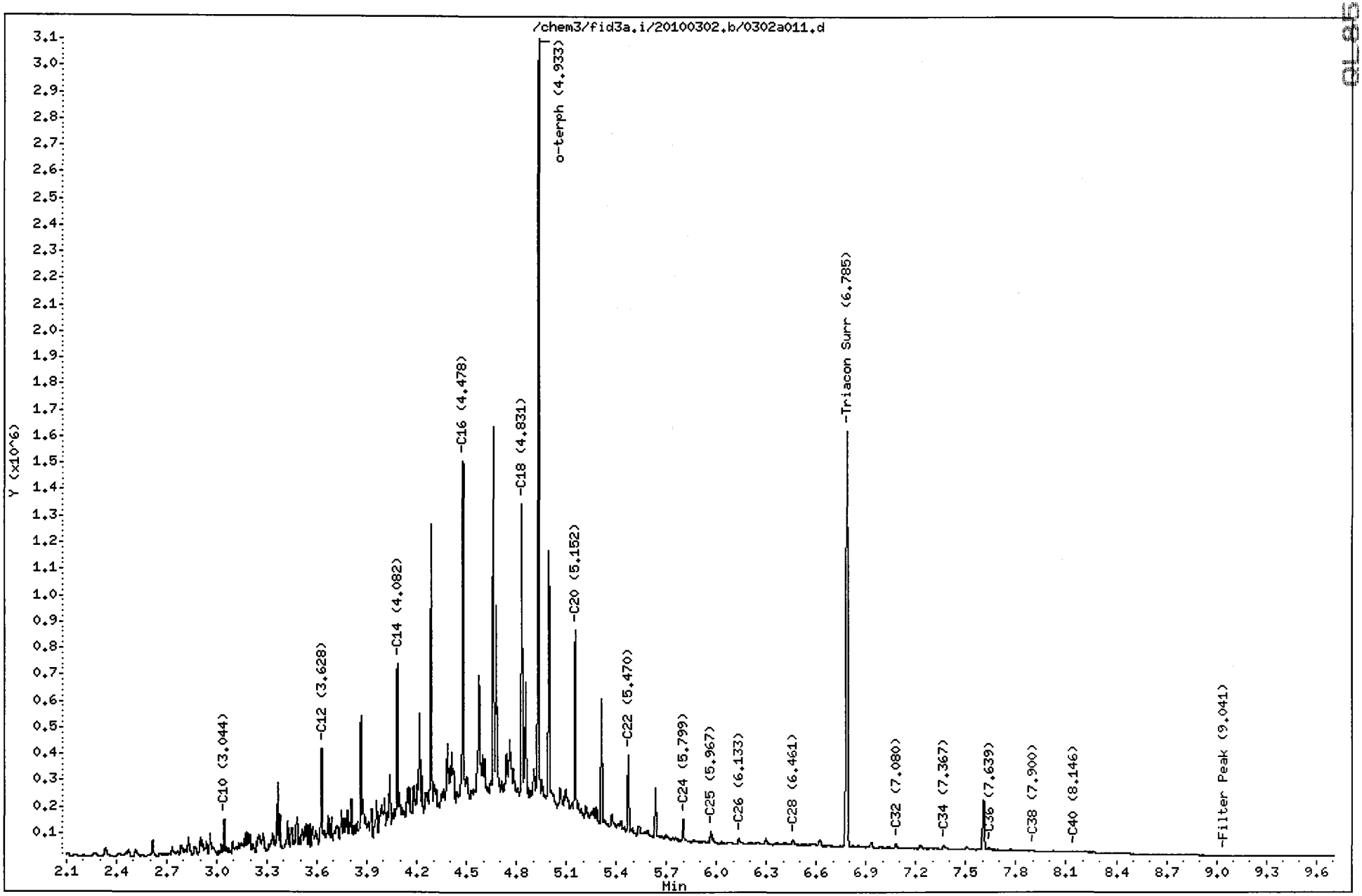
Sample Info: QL85AMSD

Instrument: fid3a.i

Operator: ms

Column phase: ZB1-HT

Column diameter: 0.25



Mn 3/3/10

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20100302.b/0302a008.d
Method: /chem3/fid3a.i/20100302.b/ftphfid3a.m
Instrument: fid3a.i
Operator: ms
Report Date: 03/03/2010
Macro: FID:3A030110

ARI ID: QL85LCSW1
Client ID: QL85LCSW1
Injection: 02-MAR-2010 20:26
Dilution Factor: 1

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.460	0.003	30988	29009	GAS (Tol-C12)	3866542	123
C8	1.831	0.001	9300	17689	DIESEL (C12-C24)	28282037	950
C10	3.045	0.000	149144	79431	M.OIL (C24-C38)	681574	30
C12	3.628	0.000	409580	305875	AK-102 (C10-C25)	31257037	935
C14	4.083	0.001	844816	465156	AK-103 (C25-C36)	563968	63
C16	4.479	0.003	1556638	910586	OR.DIES (C10-C28)	31510279	1494
C18	4.833	0.004	1389356	855398	OR.MOIL (C28-C40)	417860	37
C20	5.152	0.002	871420	532570	JET-A (C10-C18)	22546008	1423
C22	5.470	0.001	367962	271344			
C24	5.799	-0.002	99739	84917	STODDARD (C8-C12)	3767459	136
C25	5.965	-0.002	45306	54745			
C26	6.131	-0.003	17417	22937			
C28	6.460	-0.002	4093	2590			
C32	7.081	0.000	4694	6483			
C34	7.373	0.004	2935	4231			
Filter Peak	9.043	0.001	6230	745			
C36	7.651	0.009	3753	374	CREOSOT (C8-C22)	31008676	4848
C38	7.898	-0.001	3357	669			
C40	8.147	0.000	4641	369	BUNKERC (C10-C38)	31868133	3687

Range Times: NW Diesel(3.678 - 5.851) NW Gas(1.407 - 3.678) NW M.Oil(5.851 - 7.950)
AK102(2.995 - 5.918) AK103(5.918 - 7.691) Jet A(2.995 - 4.879)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1382336	35.8	79.5
Triacontane	1256824	35.8	79.5

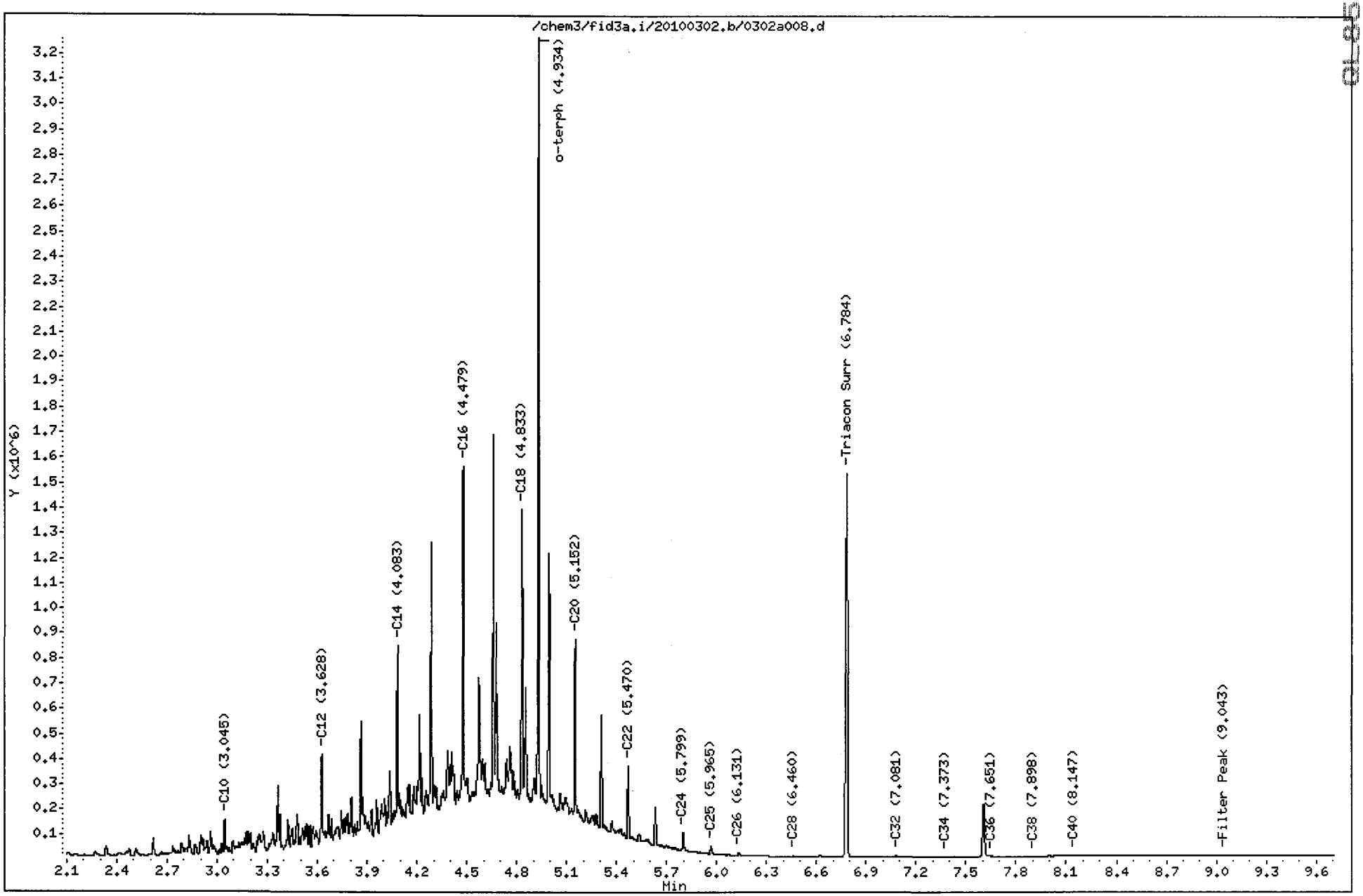
Analyte	RF	Curve Date
o-Terph Surr	38638.9	01-MAR-2010
Triacon Surr	35130.8	24-FEB-2010
Gas	31379.9	03-DEC-2009
Diesel	29779.8	01-MAR-2009
Motor Oil	22441.3	24-FEB-2010
AK102	33446.1	01-MAR-2009
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

Data File: /chem3/fid3a.i/20100302.b/0302a008.d
Date : 02-MAR-2010 20:26
Client ID: QL85LCSW1
Sample Info: QL85LCSW1

Column phase: ZB1-HT

Instrument: fid3a.i

Operator: ms
Column diameter: 0.25



TPHD Analysis
Extraction Bench Sheets/Run Logs

prepared
for

Floyd-Snider

Project: Lora Lakes Apartments, POS-LLA

ARI JOB NO: QL85

prepared
by

Analytical Resources, Inc.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Organic Extractions Benchsheet

NWTPHD / NWHCID –Water
Separatory Funnel (3510C) (SOP # 3311S)

Preparation Test TPHD/HCID # 1
ARI Job No(s) QL85

In-House (0.25-0.50ppm)
Batch set up by: SP

Bottle #	Extraction Requirements	Verify Client ID	Volume Extracted	DryVap Or KD	Turbo Vap 1 2 3	Acid/Silica Clean (1:1) Y N	Final Effective Volume	Volume to Lab	Comments
	QL85 MBW	Date 3-1-10	500mL			1mL	1mL	1mL	
	SBW	↓	↓			↓	↓	↓	
	SBW Dup.		↓			↓	↓	↓	
10,11,12	QL85 A	verified	500mL						Homogenized
↓	AmS								↓
	AmSD								
4	B								
	C								
	D								
	10 3-1-10								
					CJZ				
Analyst/Date:				3-01-10 JS	3/2/10				

Standard	Standard ID	Volume	Expiration Date	Analyst	Witness
Surrogate	O,	100µL	7/2/10		WW
Spike	11	100µL	9/7/10		WW
Extraction Time: 14:25					

SPECIAL INSTRUCTIONS: 1. Add Surr/Spk. 2. Acidify with 1 pipet of 1:1 Sulfuric Acid. 3. Check pH.

4. Extract 2X with 30mL DCM. 5. DryVap or KD at 80°. 6. TurboVap if KD. 7. Acid/Silica Clean-ups? Y N.

8. Vial in DCM. **A. Archive Y N**

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Organic Extractions Laboratory Analyst Notes

ARI Job No.: QL85 Client ID: Floyd-Snider

Parameter: TPHD A/S Client Project: Lora Lake Apartments

Note problems, concerns, corrective actions	Analyst/Date
Screens: Soil/Sediment/Solid/Other:	
☐ No Anomalies (standard soil/sediment)	
☐ Wet sediment/sludge=	
☐ Standing Water Decanted=	
☐ Standing Water Homogenized (Shared samples)=	
☐ Clay (Difficult to homogenize/Mixed with Kitchen Aid)=	
☐ Rocks/Organics=	
☐ Oily, obvious fuel/sulfur odors=	
☐ Other (Details)=	
Aqueous:	
☐ No Anomalies	
☑ Turbid/Color= A through D are Light tan.	PD 3-1-06
☐ Particulates=	
☐ Emulsions=	
☐ Other (Details)=	
☐ Other Notes/Comments=	

Analytical Resources Inc.: Organics Instrument Log

FID-3A Serial No.: US00003232

Date: 3/1/10 Analysis: TPHD Analyst: MS

GC Program: TPHT Column No: 151712 Column Type: ZB1HT

Instrument Tune (.U or .CT.): — EM Voltage: —

Calibration File: — Curve Date: 2/24/10, 3/1/10

IS/SS

Ical/Ccal

1700-1
1686-3
1687-3
1694-1

LCS/ICV

	Time	Filename	LabID	ClientId	DF
1	1546	0301a003.d	RT		1
2	1603	0301a004.d	RT		1
3	1620	0301a005.d	RT	RT	1
4	1637	0301a006.d	IB	IB	1
5	1655	0301a007.d	DIESEL 50	DIESEL 50	1
6	1712	0301a008.d	DIESEL 100	DIESEL 100	1
7	1730	0301a009.d	DIESEL 250	DIESEL 250	1
8	1747	0301a010.d	DIESEL 500	DIESEL 500	1
9	1804	0301a011.d	DIESEL 1000	DIESEL 1000	1
10	1822	0301a012.d	DIESEL 2500		1
11	1839	0301a013.d	DIESEL ICV		1
12	1856	0301a014.d	IB		1
13	1914	0301a015.d	IB		1
14	1931	0301a016.d	JET-A 250PPM		1
15	1948	0301a017.d	DIESEL#2 250PPM		
16	2005	0301a018.d	STODDARD 250PPM		
17	2022	0301a019.d	CREOSOTE 250PPM		
18	2039	0301a020.d	BUNKER C 500PPM		
19	2057	0301a021.d	AK103 500PPM		1
20	2114	0301a022.d	HYDRAULIC 500PPM		
21	2131	0301a023.d	30WT MOIL 500PPM		
22	2148	0301a024.d	GAS 1000PPM		1

	Time	Filename	LabID	ClientId	DF
23	2205	0301a025.d	DIESEL#1 1000PPM		
24	2222	0301a026.d	JP-5 1000PPM		1
25	2239	0301a027.d	JP-8 1000PPM		1
26	2256	0301a028.d	MINERAL OIL 1000		
27	2314	0301a029.d	TRNSFMR OIL 1000		
28	2331	0301a030.d	VACUUM PUMP 1000		
29	2348	0301a031.d	CRUDE OIL 1000		
30	0005	0301a032.d	40WT MOIL 1000		
31	0022	0301a033.d	BLAZO 4000 1000		
32	0039	0301a034.d	COOL LUBE 1000		
33	0056	0301a035.d	TECH COOL 1000		
34	0113	0301a036.d	IB		1
35	0130	0301a037.d	IB		1
36	0147	0301a038.d	IB		1
37	0204	0301a039.d	DIESEL#1		1
38	0222	0301a040.d	MOIL#1		1
39	0239	0301a041.d	IB		1
40	0256	0301a042.d	IB		1
41	0313	0301a043.d	IB		1

Maintenance / Comments Curved diesel and ran library.

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control):

Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

GC Analyst Notes / Corrective Action Log

ARI Project ID: Diesel, AK102, oTeph CURVE Client ID: ARI

ARI SOP: 403S(PCB) 405S(Herbicides) (407S(TPH-D)) 409S(HCID) 423S(Pesticides) Other

Parameter(s): Diesel, AK 102, oTerphenyl

Instrument: (FID-3A) FID-3B FID-4A FID-4B FID-7 FID-8
ECD-1 ECD-3 ECD-4 ECD-5 ECD-6 ECD-7

Dates: Curve: 3/1/10 Analysis Start: 3/1/10

Endrin/DDT Breakdown <15%? YES / NO / (NA) Method Blank In Control? YES / NO

ICal Meets RF & %RSD Criteria? (YES) / NO LCS/LCSD Recovery In Control? YES / NO

CCal Meets RF & %RSD Criteria (YES) / NO Surrogate Recovery In Control? (YES) / NO

Internal Standard Meets Criteria? YES / NO / (NA) Special Analysis Criteria Met? YES / NO / (NA)

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

Diesel ICV ran on 3/3/10. mo

dditional Details on Reverse: Yes / (No)

nalyst Signature: mo Date: 3/3/10

eviewer's Signature: Date: 3/3/10

m 4060F

Version 006

10/14/08

QL85 : 00762

Analytical Resources Inc.: Organics Instrument Log

FID-3A Serial No.: US00003232

Date: 2/24/10 Analysis: TPHD Analyst: MS

GC Program: TPHHT Column No: DJ1712 Column Type: ZB HT

Instrument Tune (.U or .CT.): — EM Voltage: —

Calibration File: — Curve Date: 2/24/10

IS/SS

Ical/Ccal

17001
16863
16873
1694-1

LCS/ICV

	Time	Filename	LabID	ClientId	DF
1	0608	0224a001.d	RT		1
2	0625	0224a002.d	RT		1
3	0642	0224a003.d	RT		1
4	0659	0224a004.d	RT		1
5	0716	0224a005.d	RT		1
6	0733	0224a006.d	IB		1
7	0750	0224a007.d	IB		1
8	0807	0224a008.d	IB		1
9	0825	0224a009.d	IB		1
10	0842	0224a010.d	RT		1
11	0859	0224a011.d	RT		1
12	0916	0224a012.d	RT		1
13	0933	0224a013.d	RT		1
14	0950	0224a014.d	RT		1
15	1008	0224a015.d	RT		1
16	1025	0224a016.d	RT		1
17	1042	0224a017.d	RT		1
18	1059	0224a018.d	RT		1
19	1117	0224a019.d	RT		1
20	1134	0224a020.d	RT		1
21	1151	0224a021.d	RT		1
22	1209	0224a022.d	RT		1
23	1226	0224a023.d	RT		1
24	1244	0224a024.d	RT		1
25	1301	0224a025.d	RT		1
26	1318	0224a026.d	RT		1
27	1336	0224a027.d	RT		1
28	1353	0224a028.d	IB		1
29	1411	0224a029.d	IB		1
30	1428	0224a030.d	IB		1
31	1445	0224a031.d	IB		1
32	1503	0224a032.d	IB		1
33	1520	0224a033.d	IB		1
34	1538	0224a034.d	IB		1
35	1555	0224a035.d	IB		1
36	1740	0224a036.d	RINSE		1
37	1756	0224a037.d	RT		1
38	1814	0224a038.d	IB		1
39	1831	0224a039.d	DIESEL 50		1
40	1848	0224a040.d	DIESEL 100		1
41	1905	0224a041.d	DIESEL 250		1
42	1922	0224a042.d	DIESEL 500		1
43	1939	0224a043.d	DIESEL 1000		1
44	1957	0224a044.d	DIESEL 2500		1
45	2014	0224a045.d	DIESEL ICV		1
46	2031	0224a046.d	IB		1
47	2048	0224a047.d	MOIL 100		1
48	2105	0224a048.d	MOIL 250		1
49	2122	0224a049.d	MOIL 500		1
50	2139	0224a050.d	MOIL 1000		1
51	2156	0224a051.d	MOIL 2500		1
52	2213	0224a052.d	MOIL 5000		1
53	2230	0224a053.d	MOIL ICV		1
54	2247	0224a054.d	IB		1
55	2304	0224a055.d	IB		1

Maintenance / Comments Second half of the same column (# DJ1712) was installed. Moil was curved. Diesel curve misinjected.

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control):

Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

GC Analyst Notes / Corrective Action Log

ARI Project ID: Motor Oil, n-Triacont. Curve Client ID: ART

ARI SOP: 403S(PCB) 405S(Herbicides) (407S(TPH-D)) 409S(HCID) 423S(Pesticides) Other

Parameter(s): Motor Oil, n-Triacontane

Instrument: (FID-3A) FID-3B FID-4A FID-4B FID-7 FID-8

ECD-1 ECD-3 ECD-4 ECD-5 ECD-6 ECD-7

Dates: Curve: 2/24/10 Analysis Start: 2/24/10

Endrin/DDT Breakdown <15%? YES / NO / (NA) Method Blank In Control? YES / NO (N/A)

ICal Meets RF & %RSD Criteria? (YES) / NO LCS/LCSD Recovery In Control? YES / NO

CCal Meets RF & %RSD Criteria (YES) / NO Surrogate Recovery In Control? (YES) / NO

Internal Standard Meets Criteria? YES / NO / (NA) Special Analysis Criteria Met? YES / NO / (NA)

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

Additional Details on Reverse: Yes / (No)

Analyst Signature: M.Z Date: 3/3/10

Reviewer's Signature: [signature] Date: 3/3/10

Analytical Resources Inc.: Organics Instrument Log

FID-3A Serial No.: US00003232

Date: 3/2/10 Analysis: TPHD Analyst: MS

GC Program: TPHHT Column No: 151712 Column Type: ZB1HT

Instrument Tune (.U or .CT.): ~~<~~ EM Voltage: ~~—~~

Calibration File: ~~—~~ Curve Date: 2/24/10, 3/1/10

IS/SS	Ical/Ccal	LCS/ICV
S	1700-1 1686-3 1687-3 1694-1	Z

	Time	Filename	LabID	ClientId	DF	
1	1826	0302a001.d	RINSE		1	N
2	1843	0302a002.d	RINSE		1	N
3	1900	0302a003.d	RT		1	R
4	1917	0302a004.d	IB		1	I
5	1935	0302a005.d	DIESEL#1		1	F
6	1952	0302a006.d	MOIL#1		1	M
7	2009	0302a007.d	QL85MBW1	QL85MBW1	1	
8	2026	0302a008.d	QL85LCSW1	QL85LCSW1	1	
9	2044	0302a009.d	QL85A	CB31A022610G	1	
10	2101	0302a010.d	QL85AMS	CB31A022610G	1	
11	2118	0302a011.d	QL85AMSD	CB31A022610G	1	
12	2136	0302a012.d	QL85B	CB4857022610	1	
13	2153	0302a013.d	QL85C	CB1022610GRA	1	
14	2210	0302a014.d	QL85D	CB102022610G	1	
15	2227	0302a015.d	DIESEL#2		1	
16	2245	0302a016.d	MOIL#2		1	

MS 3/3/10

Maintenance / Comments

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control):

Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

GC Analyst Notes / Corrective Action Log

ARI Project ID: QL85 Client ID: FLOYD-SNIDER - LORALAKE APT.

ARI SOP: 403S(PCB) 405S(Herbicides) (407S(TPH-D)) 409S(HCID) 423S(Pesticides) Other

Parameter(s): Diesel, MOil, oTerph,

Instrument: (FID-3A) FID-3B FID-4A FID-4B FID-7 FID-8

ECD-1 ECD-3 ECD-4 ECD-5 ECD-6 ECD-7

Dates: Curve: 2/24/10, 3/1/10 Analysis Start: 3/2/10

Endrin/DDT Breakdown <15%? YES / NO / (NA) Method Blank In Control? (YES) / NO

ICal Meets RF & %RSD Criteria? (YES) / NO LCS/LCSD Recovery In Control? (YES) / NO

CCal Meets RF & %RSD Criteria (YES) / NO Surrogate Recovery In Control? (YES) / NO

Internal Standard Meets Criteria? YES / NO / (NA) Special Analysis Criteria Met? YES / NO / (NA)

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

Additional Details on Reverse: Yes (No)

Analyst Signature: MO **Date:** 3/3/10

Reviewer's Signature: [illegible] **Date:** 3/3/10

Analytical Resources, Incorporated
Analytical Chemists and Consultants
April 5, 2010

Jessi Massingale
Floyd-Snider Inc.
601 Union Street, Suite 600
Seattle, WA 98101-2341

RE: Client Project: Lora Lake Apartments, POS-LLA
ARI Job No: QL58

Dear Ms. Massingale:

Please find enclosed the original Chain-of-Custody (COC) record, sample receipt documentation, and the final data package for samples from the project referenced above.

Sample receipt and detail of these analyses are discussed in the Case Narrative.

An electronic copy of this package will remain on file with ARI. Should you have any questions or problems, please feel free to contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.

Susan D. Dunnihoo
Director, Client Services
sue@arilabs.com
206-695-6207

Enclosures

cc: eFile QL58

SD/sdrd

4611 South 134th Place, Suite 100 • Tukwila WA 98168 • **206-695-6200** • **206-695-6201** fax

Chain of Custody
Documentation

prepared
for

Floyd/Snider

Project: Lora Lake Apartments, POS-LLA

ARI JOB NO: QL58

prepared
by

Analytical Resources, Inc.

Chain of Custody Record & Laboratory Analysis Request

Port of Seattle

ARI Assigned Number: QL58	Turn-around Requested: Standard
ARI Client Company: Floyd / Snider	Phone: 206-292-2078
Client Contact: Matt Waltman	
Client Project Name: Lora Lake Apartments	
Client Project #: POS-LLA	Samplers: D. Metallo, P. Heltzel

Date: 2-24-10
Page: 1 of 1
No. of Coolers: 2 Cooler Temps: 4.0 2.3

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	PAH 3270-D SIM low level	PCP 8041	Arsenic Tot & Diss. 200.8	Dioxin/ Furans 1613	TSS SM 2540D				Notes/Comments
CB31A022410COMP	2.24.10	1414	W	1	X	X	X	X	X				pH - storm lab measured (See attached Sheet) 6.54
CB4857022410COMP	2.24.10	1738	W	1	X	X	X	X	X				6.93
CB1022410COMP	2.24.10	0538	W	1	X	X	X	X	X				6.59
CB100022410COMP	2.24.10	1500	W	1	X	X	X	X	X				6.54

Comments/Special Instructions
- Bottles & glassware decon'ed to LLA project specific SOP

Relinquished by: (Signature)	Received by: (Signature)	Relinquished by: (Signature)	Received by: (Signature)
Printed Name: Dave Metallo	Printed Name: Peter Heltzel	Printed Name: Peter Heltzel	Printed Name: K. Peterson
Company: Taylor Assoc.	Company: TAI	Company: TAI	Company: ARI
Date & Time: 2/24/10 1640	Date & Time: 2/25/10 1640	Date & Time: 2/25/10 1726	Date & Time: 2/25/10 1724

Limits of Liability: *ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.*

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.

QL58 : 0053

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Floyd Snider
COC No(s): (NA)
Assigned ARI Job No: QL58

Project Name: Lora Lake Apts
Delivered by: Fed-Ex UPS Courier (Hand) Delivered Other:
Tracking No: (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler?	YES	(NO)
Were custody papers included with the cooler?	(YES)	NO
Were custody papers properly filled out (ink, signed, etc.)	(YES)	NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)..... 4.4 2.3
If cooler temperature is out of compliance fill out form 00070F
Temp Gun ID#: 90941619

Cooler Accepted by: JP Date: 2/25/10 Time: 1720

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler?		YES	(NO)
What kind of packing material was used? ... Bubble Wrap (Wet Ice) Gel Packs Baggies Foam Block Paper Other:			
Was sufficient ice used (if appropriate)?	NA	(YES)	NO
Were all bottles sealed in individual plastic bags?		(YES)	NO
Did all bottles arrive in good condition (unbroken)?		(YES)	NO
Were all bottle labels complete and legible?		(YES)	NO
Did the number of containers listed on COC match with the number of containers received?		(YES)	NO
Did all bottle labels and tags agree with custody papers?		(YES)	NO
Were all bottles used correct for the requested analyses?		(YES)	NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)...	NA	(YES)	NO
Were all VOC vials free of air bubbles?	(NA)	YES	NO
Was sufficient amount of sample sent in each bottle?		(YES)	NO
Date VOC Trip Blank was made at ARI	(NA)		

Samples Logged by: JP Date: 2/26/10 Time: 8:30

*** Notify Project Manager of discrepancies or concerns ***

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

Samples split @ ARI 2/25 (Teflon) 2/26

By: Date:

Small Air Bubbles ~2mm	Peabubbles ~4 mm	LARGE Air Bubbles ~4 mm
• • •	• • •	• • •

Small → "sm"
Peabubbles → "pb"
Large → "lg"
Headspace → "hs"

PRESERVATION VERIFICATION 02/26/10
Page 1 of 1

ANALYTICAL RESOURCES INCORPORATED

ARI Job No: **QL58**

PC: Sue D.
VTSR: 02/25/10

Inquiry Number: NONE
Analysis Requested: 02/26/10
Contact: Woltman, Matt
Client: Floyd/Snider
Logged by: JP
Sample Set Used: Yes-481
Validatable Package: No
Deliverables:

Project #: POS-LLA
Project: Lora Lake Apartments
Sample Site:
SDG No:
Analytical Protocol: In-house

LOGNUM ARI ID	CLIENT ID	CN >12	WAD >12	NH3 <2	COD <2	FOG <2	MET <2	PHEN <2	PHOS <2	TKN <2	NO23 <2	TOC <2	S2 >9	AK102 <2	Fe2+ <2	DMET FLT	DOC FLT	PARAMETER	ADJUSTED TO	LOT NUMBER	AMOUNT ADDED	DATE/BY
10-4796 **QL58A**	CB31A022410Comp						TOT PASS															
10-4797 **QL58B**	CB4857022410Comp						TOT															
10-4798 **QL58C**	CB1022410Comp						TOT															
10-4799 **QL58D**	CB100022410Comp						TOT PASS															
10-4800 **QL58E**	CB31A022410Comp						DIS									N						
10-4801 **QL58F**	CB4857022410Comp						DIS									N						
10-4802 **QL58G**	CB1022410Comp						DIS									N						
10-4803 **QL58H**	CB100022410Comp						DIS									N						

Dissolved metals need to be filtered and preserved in lab.

QL58 : 10-4796 to 10-4803

Checked By JP Date 2/26/10

Case Narrative

prepared
for

Floyd/Snider

Project: Lora Lake Apartments, POS-LLA

ARI JOB NO: QL58

prepared
by

Analytical Resources, Inc.

Case Narrative

Client: Floyd Snider
Project: Lora Lake Apartments, POS-LLA
Matrix: Water
ARI Job No.: QL58

Sample receipt

Analytical Resources, Inc. (ARI) accepted four water samples on February 25, 2010 under ARI job QL58. The cooler temperatures measured by IR thermometer following ARI SOP were 2.3 and 4.4°C. For details regarding sample receipt, please refer to the enclosed Cooler Receipt Form.

Samples were split for each laboratory using a polypropylene pitcher. When the mistake was discovered, a rinsate blank was performed for the pitcher and tested for dioxins. As the rinsate was clean, dioxin testing was completed for the split samples. Dioxin/Furan analyses were subcontracted to Frontier Analytical Laboratory in El Dorado Hills, CA. The Frontier report is included here in its entirety.

SIM Semivolatiles by SW8270

The samples were extracted and analyzed within the method recommended holding times.

Initial calibrations and continuing calibrations were within limits. Internal standards were within limits.

The surrogate percent recoveries were within control limits.

The method blank was clean at the reporting limit. The LCS percent recoveries were within control limits.

The matrix spike/matrix spike duplicate had recoveries and RPD within limits.

Pentachlorophenol by SW8041

The samples were extracted and analyzed within the method recommended holding times.

Initial calibrations and continuing calibrations were within limits.

The surrogate percent recoveries were within control limits.

The method blank was clean at the reporting limit. The LCS percent recoveries were within control limits.

The matrix spike/matrix spike duplicate had recoveries and RPD within limits.

Total and Dissolved Arsenic by EPA 200.8

The samples were digested and analyzed within the method recommended holding time.

The method blanks were clean at the reporting limit. The LCS percent recoveries were within control limits.

The matrix spike percent recoveries and duplicate RPDs were within control limits.

General Chemistry (TSS)

The samples were prepared and analyzed within the method recommended holding time.

The method blank was clean at the reporting limit. The LCS percent recovery was within control limits.

The replicate RPD was within the control limit.

FRONTIER
ANALYTICAL LABORATORY

March 25, 2010

Ms. Sue Dunnihoo
Analytical Resources Incorporated
4611 South 134th Place
Tukwila, WA 98168-3240

Dear Ms. Dunnihoo,

Enclosed are the results for Frontier Analytical Laboratory project **6005**. This corresponds to your **Lora Lake Apartments** project under ARI project number **QL58**. Four aqueous samples were received on 3/2/2010 in good condition. As per your chain of custody request, all four samples were placed on hold pending the results from ARI project number **QL95**. On 3/12/2010, you contacted us to request we take all four samples off hold. These samples were extracted and analyzed by EPA Method 1613 for tetra through octa chlorinated dibenzo dioxins and furans. The 2005 World Health Organizations toxic equivalency factors were used to calculate the toxic equivalency (TEQs) on your report. Analytical Resources Incorporated requested a Level IV report and a turnaround time of fifteen business days for project **6005**.

The following Level IV report consists of an Analytical Data section, a Sample Receipt section, a Laboratory Raw Data section, and an Instrument Raw Data section. The Analytical Data section contains our project-sample tracking log and the analytical results. The Sample Receipt section contains your original chain of custody, our sample login form and a sample photo. The Laboratory Raw Data section contains our project request sheet, a percent solids sheet, an extraction bench sheet, and the cleanup bench sheet. The instrument raw data section contains three sub-sections; the sample results section, the initial calibration section and the continuing/ending calibration section. The sample results sub-section consists of the quantitation summary forms with chromatograms for all samples and QC. The initial calibration sub-section consists of the individual quantitation summary forms and chromatograms for each point of the initial calibration curve as well as an overall quantitation summary form of the initial calibration curve. The continuing/ending calibration sub-section consists of the quantitation summary forms and chromatograms for all beginning and ending calibration injections associated with the samples and QC. The Level I summary and the Electronic Data Deliverables (EDDs) have been sent to you via email. A hardcopy of the Level IV data package has been sent to you via OnTrac overnight delivery. The enclosed results are specifically for the samples referenced in this report only. These results meet all NELAC requirements and shall not be reproduced except in full.

If you have any questions regarding project **6005**, please contact me at (916) 934-0900. Thank you for choosing Frontier Analytical Laboratory for your analytical testing needs.

Sincerely,

Bradley B. Silverbush
Director of Operations

FRONTIER ANALYTICAL LABORATORY
5172 Hillsdale Circle • El Dorado Hills, CA 95762
Tel (916) 934-0900 • Fax (916) 934-0999
www.frontieranalytical.com

Data Reporting Qualifiers

Effective 7/10/2009

Inorganic Data

U Indicates that the target analyte was not detected at the reported concentration

* Duplicate RPD is not within established control limits

B Reported value is less than the CRDL but ≥ the Reporting Limit

N Matrix Spike recovery not within established control limits

NA Not Applicable, analyte not spiked

H The natural concentration of the spiked element is so much greater than the concentration spiked that an accurate determination of spike recovery is not possible

L Analyte concentration is ≤5 times the Reporting Limit and the replicate control limit defaults to ±1 RL instead of the normal 20% RPD

Organic Data

U Indicates that the target analyte was not detected at the reported concentration

* Flagged value is not within established control limits

B Analyte detected in an associated Method Blank at a concentration greater than one-half of ARI's Reporting Limit or 5% of the regulatory limit or 5% of the analyte concentration in the sample.

J Estimated concentration when the value is less than ARI's established reporting limits

D The spiked compound was not detected due to sample extract dilution

E Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

Q Indicates a detected analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20%Drift or minimum RRF).

S Indicates an analyte response that has saturated the detector. The calculated concentration is not valid; a dilution is required to obtain valid quantification of the analyte

NA The flagged analyte was not analyzed for

NR Spiked compound recovery is not reported due to chromatographic interference

NS The flagged analyte was not spiked into the sample

M Estimated value for an analyte detected and confirmed by an analyst but with low spectral match parameters. This flag is used only for GC-MS analyses

M2 The sample contains PCB congeners that do not match any standard Aroclor pattern. The PCBs are identified and quantified as the Aroclor whose pattern most closely matches that of the sample. The reported value is an estimate.

N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification"

Y The analyte is not detected at or above the reported concentration. The reporting limit is raised due to chromatographic interference. The Y flag is equivalent to the U flag with a raised reporting limit.

C The analyte was positively identified on only one of two chromatographic columns. Chromatographic interference prevented a positive identification on the second column

P The analyte was detected on both chromatographic columns but the quantified values differ by ≥40% RPD with no obvious chromatographic interference

Geotechnical Data

A The total of all fines fractions. This flag is used to report total fines when only sieve analysis is requested and balances total grain size with sample weight.

F Samples were frozen prior to particle size determination

SM Sample matrix was not appropriate for the requested analysis. This normally refers to samples contaminated with an organic product that interferes with the sieving process and/or moisture content, porosity and saturation calculations

SS Sample did not contain the proportion of "fines" required to perform the pipette portion of the grain size analysis

W Weight of sample in some pipette aliquots was below the level required for accurate weighting

LCS SOLUTIONS

3/6/2010

LABL	SOLN ID	TEST	CONC. UG/ML	SOLVENT	EXP.
1	1686-1	PCB 1660	20	ACETONE	09/01/10
2#	1472-3	BCOC PEST	10	ACETONE	NA
3	1620-4	PEST	02/04/20	ACETONE	06/26/10
4	1667-1	LOW PEST	0.2/0.4/2	ACETONE	06/26/10
5	1677-1	EPH	1500	MECL2	11/12/10
6	1702-2	PCP	12.5/125	ACETONE	02/18/11
7	1705-1	ABN	100	ACETONE	07/01/10
8	1681-4	TBT	2.5	MECL2	12/01/10
9	1682-2	PORE TBT	.125/.25	MECL2	12/01/10
10	1698-2	ABN ACID	100/200	MECL2	07/14/10
11	1642-2	TPHD	15000	ACETONE	09/07/10
12	1698-1	ABN BASE	200	MEOH	07/24/10
13	1613-1	LOW PCB	2	ACETONE	06/08/10
14*	1547-1	LOW ABN ACID	10/20	MEOH	04/10/10
15*	1591-3	SIM PNA	15/75	MEOH	08/28/10
16	1602-3	DIOXANE	100	MEOH	03/20/10
17	1644-1	1248 PCB	10	ACETONE	09/10/10
18*	1591-4	LOW SIM PNA	1.5	ACETONE	08/28/10
19	1685-3	AK103	7500	ACETONE	09/03/10
20	1682-4	PNA	100	ACETONE	12/04/10
21	1593-3	SKY/BHT	100	MEOH	03/31/10
22	1702-4	HERB	12.5/12500	MEOH	04/17/10
23*	1505-1	LW ABN BASE	20	MEOH	03/20/10
24	1696-1	LOW ABN	10	ACETONE	01/13/11
25#	1481-1	DIPHENYL	100	MEOH	NA
26	1702-5	OP-PEST	25	MEOH	03/31/10
27	1668-3	STEROLS	200	MEOH	10/30/10
28#	1684-1	ADD. PEST	4	ACETONE	03/25/10
29#	1496-3	DECANES	100	MEOH	NA
30	1620-1	EDB/DBCP	0.2	MEOH	06/22/10

LCS SOLUTIONS

3/6/2010

31	1596-1	TERPINEOL	100	MEOH	04/03/10
32	1619-3	GUAIACOL	50-200	ACETONE	04/30/10
33	1639-3	RETENE	100	MEOH	09/03/10
34	1633-1	CONGENERS	2.5	ACETONE	08/11/10
35	1674-3	ALKYL PNA A	10	MEOH	10/28/10
36	1601-3	ALKYL PNA B	10	MEOH	05/13/10
50	1617-1	FULL RESIN	250	ACETONE	06/17/10
51	1696-3	DDTS	2.5	ACETONE	06/03/10
52	1613-5	1232 PCB	20	ACETONE	06/16/10
53	1703-3	DALAPON	50	MEOH	09/11/10
54	1701-2	PBDE	0.5	ACETONE	02/10/11
#=PROJECT SPECIFIC SOLUTION					
*=REVERIFIED SOLUTION					

SURR SOLUTIONS

3/6/2010

LABEL	SOLN ID	TEST	CONC. UG/ML	SOLVENT	EXP.
A	1662-3	ABN	100/150	MEOH	10/08/10
B	1633-3	SIM PNA	15/75	MEOH	08/12/10
C*	1559-1	SIM ABN	25/37.5	MEOH	03/13/10
D	1689-2	LOW PCB	0.2	ACETONE	12/29/10
E	1661-2	HERB	62.5	MEOH	10/02/10
F	1683-3	PCP	12.5	ACETONE	12/09/10
G*	1534-1	1,4DIOXANE	100	MEOH	02/20/10
H	1594-1	OP-PEST	25	MEOH	04/01/10
I	1634-1	LOW S. PNA	1.5	MEOH	08/12/10
J	1681-2	TBT-PORE	0.125	MECL2	12/01/10
K	1689-1	MED PCB	20	ACETONE	12/29/10
L	1681-1	TBT	2.5	MECL2	12/01/10
M	1682-1	EPH	1500	MECL2	09/17/10
N	1689-3	PCB	2	ACETONE	12/29/10
O	1699-1	TPH	450	MECL2	07/02/10
P	1666-3	HCID	2250	MECL2	05/06/10
Q	1620-2	EDB	1	MEOH	06/22/10
R	1615-1	RESIN ACID	250	ACETONE	06/17/10
S#	1568-5	PBDE	.25	MEOH	NA
T	1674-2	ALKYL PNA	10	MEOH	07/30/10
U	1633-1	CONGENER	2.5	ACETONE	08/11/10
V					
*reverified solution					
#project specific					
Y					
Z					

Analytical Resources,Incorporated
Analytical Chemists and Consultants

Spike Recovery Control Limits for Polycyclic Aromatic Hydrocarbons Selected Ion Monitoring (SIM) EPA Method SW-846-8270D-Modified Low Level Aqueous Samples[1,7]

Effective 5/1/09

Control limits are updated periodically. Assure that you have ARI's current control limits by downloading the files at the time of use. http://www.arilabs.com/portal/downloads/ARI-CLs.zip

Sample Volume / Final Volume	500 mL to 0.5 mL	
	Control Limits	ME Limits [2]
LCS Spike Recovery [6]		
Napthalene	41 - 101	31 - 111
2-Methylnapthalene	47 - **100**	39 - 103
1-Methylnapthalene	30 - 160 [3]	30 - 160 [3]
Acenaphthylene	35 - **100**	25 - 104
Acenapthene	43 - 104	33 - 114
Dibenzofuran	37 - **100**	27 - 108
Fluorene	51 - 103	42 - 112
Phenanthrene	55 - 109	46 - 118
Anthracene	30 - 101	18 - 113
Fluoranthene	49 - 123	37 - 135
Pyrene	48 - 120	36 - 132
Benz(a)anthracene	43 - 113	31 - 125
Chrysene	59 - 112	50 - 121
Benzo(b)fluoranthene	44 - 121	31 - 134
Benzo(k)fluoranthene	50 - 117	39 - 128
Benzo(a)pyrene	**10** - **100**	**10** - 109
Indeno(1,2,3-cd)pyrene	43 - 112	32 - 124
Dibenzo(a,h)anthracene	42 - 114	30 - 126
Benzo(g,h,i)perylene	31 - 118	17 - 133
MB / LCS Surrogate Recovery		
d10-2-Methylnaphthalene	42 - **100**	(4)
d14-Dibenzo(a,h)anthracene	40 - 125	(4)
Sample Surrogate Recovery		
d10-2-Methylnaphthalene	31 - 109	(4)
d14-Dibenzo(a,h)anthracene	**10** - 133	(4)

(1) ARI's Control limits calculated using all available spike recovery data from 1/1/08 through 12/1/08.
(2) **ME** = A **marginal exceedance** defined in the NELAC Standard [5] as beyond the LCS-CL but still within the ME limits. ME limits are between 3 and 4 standard deviations around the mean. A maximum of one marginal exceedance is acceptable. Two or more marginal exceedances require corrective action.
(3) 30 – 160 are default, advisory control limits used when there is insufficient data to calculate historic control limits. **DO NOT** use these limits as the sole reason to reject the data from a batch of analyses.
(4) Marginal Exceedances not allowed for surrogate standards.
(5) **2003 NELAC Standard (EPA/600/R-04/003), July 2003**, Chapter 5, pages 251-252.
(6)Laboratory Control Sample (LCS) spike recovery control limits also used as advisory control limits for sample matrix spike (MS) analyzes. MS recovery values are advisory and not used to assess the acceptability of an analytical batch.
(7) Highlighted control limits (**bold font**) adjusted to demonstrate that ARI does not use control limits < 10 for the lower limit or < 100 for the upper limit.

Analytical Resources,Incorporated
Analytical Chemists and Consultants

Spike Recovery Control Limits for Chlorinated Phenols
EPA Method SW-846-8041[1,2]

Effective 5/1/09

Control limits are updated periodically. Assure that you have ARI's current control limits by downloading the files at the time of use. http://www.arilabs.com/portal/downloads/ARI-CLs.zip

	ARI's Calculated Control Limits	
Sample Matrix:	Water	Soil / Sediment
Sample Amount / Final Volume:	500 / 50 mL	10 g / 25 mL
LCS Spike Recovery [3]		
Pentachlorophenol	27 - 115	**10** - 162
Method Blank/LCS Surrogate Recovery		
2,4,6-Tribromophenol	40 - 130	50 - 115
Sample Surrogate Recovery		
2,4,6-Tribromophenol	11 - 156	**10** - 146

(1) ARI's Control limits calculated using all available spike recovery data from 1/1/08 through 12/1/08.
(2) Highlighted control limits (**bold font**) adjusted to demonstrate that ARI does not use control limits < 10.
(3) Laboratory Control Sample (LCS) spike recovery control limits also used as advisory control limits for sample matrix spike (MS) analyzes. MS recovery values are advisory and not used to assess the acceptability of an analytical batch.

Summary of Laboratory Control Limits Metals Analyses (All Methods & Sample Matrices)

Effective 5/1/09

Control limits are updated periodically. Assure that you have ARI's current control limits by downloading the files at the time of use. http://www.arilabs.com/portal/downloads/ARI-CLs.zip

Element	Matrix Spike Recovery	LCS Recovery	Replicate RPD
Aluminum	75 - 125	80 - 120	≤ 20%
Antimony	75 - 125	80 - 120	≤ 20%
Arsenic	75 - 125	80 - 120	≤ 20%
Barium	75 - 125	80 - 120	≤ 20%
Beryllium	75 - 125	80 - 120	≤ 20%
Boron	75 - 125	80 - 120	≤ 20%
Cadmium	75 - 125	80 - 120	≤ 20%
Calcium	75 - 125	80 - 120	≤ 20%
Chromium	75 - 125	80 - 120	≤ 20%
Cobalt	75 - 125	80 - 120	≤ 20%
Copper	75 - 125	80 - 120	≤ 20%
Iron	75 - 125	80 - 120	≤ 20%
Lead	75 - 125	80 - 120	≤ 20%
Magnesium	75 - 125	80 - 120	≤ 20%
Manganese	75 - 125	80 - 120	≤ 20%
Mercury	75 - 125	80 - 120	≤ 20%
Nickel	75 - 125	80 - 120	≤ 20%
Potassium	75 - 125	80 - 120	≤ 20%
Selenium	75 - 125	80 - 120	≤ 20%
Silica	75 - 125	80 - 120	≤ 20%
Silver	75 - 125	80 - 120	≤ 20%
Sodium	75 - 125	80 - 120	≤ 20%
Strontium	75 - 125	80 - 120	≤ 20%
Thallium	75 - 125	80 - 120	≤ 20%
Vanadium	75 - 125	80 - 120	≤ 20%
Zinc	75 - 125	80 - 120	≤ 20%

Analytical Resources,Incorporated
Analytical Chemists and Consultants

Spike Recovery Control Limits for Conventional Wet Chemistry

Effective 5/1/09

Control limits are updated periodically. Assure that you have ARI's current control limits by downloading the files at the time of use. http://www.arilabs.com/portal/downloads/ARI-CLs.zip

	ARI's Control Limits	
Sample Matrix:	Water	Soil / Sediment
Matrix Spike Recoveries	% Recovery	% Recovery
Ammonia	75 - 125	75 - 125
Bromide	75 125	75 - 125
Chloride	75 125	75 - 125
Cyanide	75 - 125	75 - 125
Ferrous Iron	75 - 125	75 - 125
Fluoride	75 - 125	75 - 125
Formaldehyde	75 - 125	75 - 125
Hexane Extractable Material	-- - --	78 - 114
Hexavalent Chromium	75 - 125	75 - 125
Nitrate/Nitrite	75 - 125	75 - 125
Oil and Grease	75 - 125	75 - 125
Phenol	75 - 125	75 - 125
Phosphorous	75 - 125	75 - 125
Sulfate	75 - 125	75 - 125
Sulfide	75 - 125	75 - 125
Total Kjeldahl Nitrogen	75 - 125	75 - 125
Total Organic Carbon	75 - 125	75 - 125
Duplicate RPDs		
Acidity	±20%	±20%
Alkalinity	±20%	±20%
BOD	±20%	±20%
Cation Exchange	±20%	±20%
COD	±20%	±20%
Conductivity	±20%	±20%
Salinity	±20%	±20%
Solids	±20%	±20%
Turbidity	±20%	±20%

Data Summary Package

prepared
for

Floyd/Snider

Project: Lora Lake Apartments, POS-LLA

ARI JOB NO: QL58

prepared
by

Analytical Resources, Inc.

SIM SEMIVOLATILE ANALYSIS

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by Low Level SW8270D-SIM GC/MS **Sample ID: CB31A022410Comp**
Page 1 of 1 **SAMPLE**

Lab Sample ID: QL58A
LIMS ID: 10-4796
Matrix: Water
Data Release Authorized:
Reported: 03/08/10

QC Report No: QL58-Floyd/Snider
Project: Lora Lake Apartments
Event: POS-LLA
Date Sampled: 02/24/10
Date Received: 02/25/10

Date Extracted: 03/01/10
Date Analyzed: 03/04/10 14:52
Instrument/Analyst: NT2/PK

Sample Amount: 500 mL
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
91-20-3	**Naphthalene**	**0.010**	**0.023**
91-57-6	**2-Methylnaphthalene**	**0.010**	**0.016**
90-12-0	1-Methylnaphthalene	0.010	< 0.010 U
208-96-8	Acenaphthylene	0.010	< 0.010 U
83-32-9	Acenaphthene	0.010	< 0.010 U
86-73-7	Fluorene	0.010	< 0.010 U
85-01-8	**Phenanthrene**	**0.010**	**0.074**
120-12-7	Anthracene	0.010	< 0.010 U
206-44-0	**Fluoranthene**	**0.010**	**0.14**
129-00-0	**Pyrene**	**0.010**	**0.18**
56-55-3	**Benzo(a)anthracene**	**0.010**	**0.023**
218-01-9	**Chrysene**	**0.010**	**0.084**
205-99-2	**Benzo(b)fluoranthene**	**0.010**	**0.034**
207-08-9	**Benzo(k)fluoranthene**	**0.010**	**0.034**
50-32-8	**Benzo(a)pyrene**	**0.010**	**0.032**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.010**	**0.024**
53-70-3	Dibenz(a,h)anthracene	0.010	< 0.010 U
191-24-2	**Benzo(g,h,i)perylene**	**0.010**	**0.056**
132-64-9	Dibenzofuran	0.010	< 0.010 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	59.7%
d14-Dibenzo(a,h)anthracene	57.7%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by Low Level SW8270D-SIM GC/MS
Page 1 of 1

Sample ID: CB4857022410Comp
SAMPLE

Lab Sample ID: QL58B
LIMS ID: 10-4797
Matrix: Water
Data Release Authorized:
Reported: 03/08/10

QC Report No: QL58-Floyd/Snider
Project: Lora Lake Apartments
Event: POS-LLA
Date Sampled: 02/24/10
Date Received: 02/25/10

Date Extracted: 03/01/10
Date Analyzed: 03/04/10 15:16
Instrument/Analyst: NT2/PK

Sample Amount: 500 mL
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
91-20-3	**Naphthalene**	**0.010**	**0.024**
91-57-6	**2-Methylnaphthalene**	**0.010**	**0.014**
90-12-0	1-Methylnaphthalene	0.010	< 0.010 U
208-96-8	Acenaphthylene	0.010	< 0.010 U
83-32-9	Acenaphthene	0.010	< 0.010 U
86-73-7	Fluorene	0.010	< 0.010 U
85-01-8	**Phenanthrene**	**0.010**	**0.068**
120-12-7	Anthracene	0.010	< 0.010 U
206-44-0	**Fluoranthene**	**0.010**	**0.13**
129-00-0	**Pyrene**	**0.010**	**0.16**
56-55-3	**Benzo(a)anthracene**	**0.010**	**0.021**
218-01-9	**Chrysene**	**0.010**	**0.078**
205-99-2	**Benzo(b)fluoranthene**	**0.010**	**0.033**
207-08-9	**Benzo(k)fluoranthene**	**0.010**	**0.033**
50-32-8	**Benzo(a)pyrene**	**0.010**	**0.030**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.010**	**0.022**
53-70-3	Dibenz(a,h)anthracene	0.010	< 0.010 U
191-24-2	**Benzo(g,h,i)perylene**	**0.010**	**0.053**
132-64-9	Dibenzofuran	0.010	< 0.010 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	67.7%
d14-Dibenzo(a,h)anthracene	63.7%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by Low Level SW8270D-SIM GC/MS
Page 1 of 1

Sample ID: CB1022410Comp
SAMPLE

Lab Sample ID: QL58C
LIMS ID: 10-4798
Matrix: Water
Data Release Authorized:
Reported: 03/08/10

QC Report No: QL58-Floyd/Snider
Project: Lora Lake Apartments
Event: POS-LLA
Date Sampled: 02/24/10
Date Received: 02/25/10

Date Extracted: 03/01/10
Date Analyzed: 03/04/10 15:41
Instrument/Analyst: NT2/PK

Sample Amount: 500 mL
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
91-20-3	**Naphthalene**	**0.010**	**0.015**
91-57-6	2-Methylnaphthalene	0.010	< 0.010 U
90-12-0	1-Methylnaphthalene	0.010	< 0.010 U
208-96-8	Acenaphthylene	0.010	< 0.010 U
83-32-9	Acenaphthene	0.010	< 0.010 U
86-73-7	Fluorene	0.010	< 0.010 U
85-01-8	Phenanthrene	0.010	< 0.010 U
120-12-7	Anthracene	0.010	< 0.010 U
206-44-0	Fluoranthene	0.010	< 0.010 U
129-00-0	Pyrene	0.010	< 0.010 U
56-55-3	Benzo(a)anthracene	0.010	< 0.010 U
218-01-9	Chrysene	0.010	< 0.010 U
205-99-2	Benzo(b)fluoranthene	0.010	< 0.010 U
207-08-9	Benzo(k)fluoranthene	0.010	< 0.010 U
50-32-8	Benzo(a)pyrene	0.010	< 0.010 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.010	< 0.010 U
53-70-3	Dibenz(a,h)anthracene	0.010	< 0.010 U
191-24-2	Benzo(g,h,i)perylene	0.010	< 0.010 U
132-64-9	Dibenzofuran	0.010	< 0.010 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	70.3%
d14-Dibenzo(a,h)anthracene	39.3%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by Low Level SW8270D-SIM GC/MS
Page 1 of 1

Sample ID: CB100022410Comp
SAMPLE

Lab Sample ID: QL58D
LIMS ID: 10-4799
Matrix: Water
Data Release Authorized:
Reported: 03/08/10

QC Report No: QL58-Floyd/Snider
Project: Lora Lake Apartments
Event: POS-LLA
Date Sampled: 02/24/10
Date Received: 02/25/10

Date Extracted: 03/01/10
Date Analyzed: 03/04/10 16:55
Instrument/Analyst: NT2/PK

Sample Amount: 500 mL
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
91-20-3	**Naphthalene**	**0.010**	**0.025**
91-57-6	**2-Methylnaphthalene**	**0.010**	**0.017**
90-12-0	1-Methylnaphthalene	0.010	< 0.010 U
208-96-8	Acenaphthylene	0.010	< 0.010 U
83-32-9	Acenaphthene	0.010	< 0.010 U
86-73-7	**Fluorene**	**0.010**	**0.010**
85-01-8	**Phenanthrene**	**0.010**	**0.069**
120-12-7	Anthracene	0.010	< 0.010 U
206-44-0	**Fluoranthene**	**0.010**	**0.13**
129-00-0	**Pyrene**	**0.010**	**0.16**
56-55-3	**Benzo(a)anthracene**	**0.010**	**0.020**
218-01-9	**Chrysene**	**0.010**	**0.074**
205-99-2	**Benzo(b)fluoranthene**	**0.010**	**0.029**
207-08-9	**Benzo(k)fluoranthene**	**0.010**	**0.029**
50-32-8	**Benzo(a)pyrene**	**0.010**	**0.027**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.010**	**0.019**
53-70-3	Dibenz(a,h)anthracene	0.010	< 0.010 U
191-24-2	**Benzo(g,h,i)perylene**	**0.010**	**0.048**
132-64-9	Dibenzofuran	0.010	< 0.010 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	68.0%
d14-Dibenzo(a,h)anthracene	72.3%

ANALYTICAL RESOURCES INCORPORATED

SIM SW8270 SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: QL58-Floyd/Snider
Project: Lora Lake Apartments
POS-LLA

Client ID	MNP	DBA	TOT OUT
CB31A022410Comp	59.7%	57.7%	0
CB4857022410Comp	67.7%	63.7%	0
MB-030110	68.7%	58.7%	0
LCS-030110	77.0%	74.7%	0
CB1022410Comp	70.3%	39.3%	0
CB1022410Comp MS	63.0%	51.3%	0
CB1022410Comp MSD	72.7%	50.7%	0
CB100022410Comp	68.0%	72.3%	0

	LCS/MB LIMITS	QC LIMITS
(MNP) = d10-2-Methylnaphthalene	(42-100)	(31-109)
(DBA) = d14-Dibenzo(a,h)anthracene	(40-125)	(10-133)

Prep Method: SW3520C
Log Number Range: 10-4796 to 10-4799

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by Low Level SW8270D-SIM GC/MS **Sample ID: CB1022410Comp**
Page 1 of 1 **MATRIX SPIKE**

Lab Sample ID: QL58C
LIMS ID: 10-4798
Matrix: Water
Data Release Authorized:
Reported: 03/08/10

QC Report No: QL58-Floyd/Snider
Project: Lora Lake Apartments
Event: POS-LLA
Date Sampled: 02/24/10
Date Received: 02/25/10

Date Extracted MS/MSD: 03/01/10

Sample Amount MS: 500 mL
MSD: 500 mL
Final Extract Volume MS: 0.50 mL
MSD: 0.50 mL
Dilution Factor MS: 1.00
MSD: 1.00

Date Analyzed MS: 03/04/10 16:06
MSD: 03/04/10 16:30
Instrument/Analyst MS: NT2/PK
MSD: NT2/PK

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Naphthalene	0.0152	0.178	0.300	54.3%	0.205	0.300	63.3%	14.1%
2-Methylnaphthalene	< 0.0100 U	0.184	0.300	61.3%	0.212	0.300	70.7%	14.1%
1-Methylnaphthalene	< 0.0100 U	0.176	0.300	58.7%	0.202	0.300	67.3%	13.8%
Acenaphthylene	< 0.0100 U	0.201	0.300	67.0%	0.223	0.300	74.3%	10.4%
Acenaphthene	< 0.0100 U	0.200	0.300	66.7%	0.230	0.300	76.7%	14.0%
Fluorene	< 0.0100 U	0.223	0.300	74.3%	0.248	0.300	82.7%	10.6%
Phenanthrene	< 0.0100 U	0.260	0.300	86.7%	0.276	0.300	92.0%	6.0%
Anthracene	< 0.0100 U	0.220	0.300	73.3%	0.239	0.300	79.7%	8.3%
Fluoranthene	< 0.0100 U	0.259	0.300	86.3%	0.270	0.300	90.0%	4.2%
Pyrene	< 0.0100 U	0.260	0.300	86.7%	0.274	0.300	91.3%	5.2%
Benzo(a)anthracene	< 0.0100 U	0.225	0.300	75.0%	0.234	0.300	78.0%	3.9%
Chrysene	< 0.0100 U	0.230	0.300	76.7%	0.242	0.300	80.7%	5.1%
Benzo(b)fluoranthene	< 0.0100 U	0.167	0.300	55.7%	0.177	0.300	59.0%	5.8%
Benzo(k)fluoranthene	< 0.0100 U	0.193	0.300	64.3%	0.210	0.300	70.0%	8.4%
Benzo(a)pyrene	< 0.0100 U	0.174	0.300	58.0%	0.184	0.300	61.3%	5.6%
Indeno(1,2,3-cd)pyrene	< 0.0100 U	0.146	0.300	48.7%	0.156	0.300	52.0%	6.6%
Dibenz(a,h)anthracene	< 0.0100 U	0.151	0.300	50.3%	0.161	0.300	53.7%	6.4%
Benzo(g,h,i)perylene	< 0.0100 U	0.148	0.300	49.3%	0.155	0.300	51.7%	4.6%
Dibenzofuran	< 0.0100 U	0.237	0.300	79.0%	0.273	0.300	91.0%	14.1%

Reported in µg/L (ppb)

RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by Low Level SW8270D-SIM GC/MS **Sample ID: CB1022410Comp**
Page 1 of 1 **MATRIX SPIKE**

Lab Sample ID: QL58C
LIMS ID: 10-4798
Matrix: Water
Data Release Authorized:
Reported: 03/08/10

QC Report No: QL58-Floyd/Snider
Project: Lora Lake Apartments
Event: POS-LLA
Date Sampled: 02/24/10
Date Received: 02/25/10

Date Extracted: 03/01/10
Date Analyzed: 03/04/10 16:06
Instrument/Analyst: NT2/PK

Sample Amount: 500 mL
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	0.010	---
91-57-6	2-Methylnaphthalene	0.010	---
90-12-0	1-Methylnaphthalene	0.010	---
208-96-8	Acenaphthylene	0.010	---
83-32-9	Acenaphthene	0.010	---
86-73-7	Fluorene	0.010	---
85-01-8	Phenanthrene	0.010	---
120-12-7	Anthracene	0.010	---
206-44-0	Fluoranthene	0.010	---
129-00-0	Pyrene	0.010	---
56-55-3	Benzo(a)anthracene	0.010	---
218-01-9	Chrysene	0.010	---
205-99-2	Benzo(b)fluoranthene	0.010	---
207-08-9	Benzo(k)fluoranthene	0.010	---
50-32-8	Benzo(a)pyrene	0.010	---
193-39-5	Indeno(1,2,3-cd)pyrene	0.010	---
53-70-3	Dibenz(a,h)anthracene	0.010	---
191-24-2	Benzo(g,h,i)perylene	0.010	---
132-64-9	Dibenzofuran	0.010	---

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	63.0%
d14-Dibenzo(a,h)anthracene	51.3%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by Low Level SW8270D-SIM GC/MS **Sample ID: CB1022410Comp**
Page 1 of 1 **MATRIX SPIKE DUPLICATE**

Lab Sample ID: QL58C
LIMS ID: 10-4798
Matrix: Water
Data Release Authorized:
Reported: 03/08/10

QC Report No: QL58-Floyd/Snider
Project: Lora Lake Apartments
Event: POS-LLA
Date Sampled: 02/24/10
Date Received: 02/25/10

Date Extracted: 03/01/10
Date Analyzed: 03/04/10 16:30
Instrument/Analyst: NT2/PK

Sample Amount: 500 mL
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	0.010	---
91-57-6	2-Methylnaphthalene	0.010	---
90-12-0	1-Methylnaphthalene	0.010	---
208-96-8	Acenaphthylene	0.010	---
83-32-9	Acenaphthene	0.010	---
86-73-7	Fluorene	0.010	---
85-01-8	Phenanthrene	0.010	---
120-12-7	Anthracene	0.010	---
206-44-0	Fluoranthene	0.010	---
129-00-0	Pyrene	0.010	---
56-55-3	Benzo(a)anthracene	0.010	---
218-01-9	Chrysene	0.010	---
205-99-2	Benzo(b)fluoranthene	0.010	---
207-08-9	Benzo(k)fluoranthene	0.010	---
50-32-8	Benzo(a)pyrene	0.010	---
193-39-5	Indeno(1,2,3-cd)pyrene	0.010	---
53-70-3	Dibenz(a,h)anthracene	0.010	---
191-24-2	Benzo(g,h,i)perylene	0.010	---
132-64-9	Dibenzofuran	0.010	---

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	72.7%
d14-Dibenzo(a,h)anthracene	50.7%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by Low Level SW8270D-SIM GC/MS
Page 1 of 1

Sample ID: LCS-030110
LAB CONTROL SAMPLE

Lab Sample ID: LCS-030110
LIMS ID: 10-4798
Matrix: Water
Data Release Authorized:
Reported: 03/08/10

QC Report No: QL58-Floyd/Snider
Project: Lora Lake Apartments
Event: POS-LLA
Date Sampled: NA
Date Received: NA

Date Extracted LCS/LCSD: 03/01/10
Date Analyzed LCS: 03/04/10 14:27
Instrument/Analyst LCS: NT2/PK

Sample Amount LCS: 500 mL
Final Extract Volume LCS: 0.50 mL
Dilution Factor LCS: 1.00

Analyte	LCS	Spike Added	Recovery
Naphthalene	0.218	0.300	72.7%
2-Methylnaphthalene	0.229	0.300	76.3%
1-Methylnaphthalene	0.220	0.300	73.3%
Acenaphthylene	0.205	0.300	68.3%
Acenaphthene	0.230	0.300	76.7%
Fluorene	0.243	0.300	81.0%
Phenanthrene	0.263	0.300	87.7%
Anthracene	0.198	0.300	66.0%
Fluoranthene	0.277	0.300	92.3%
Pyrene	0.260	0.300	86.7%
Benzo(a)anthracene	0.256	0.300	85.3%
Chrysene	0.301	0.300	100%
Benzo(b)fluoranthene	0.234	0.300	78.0%
Benzo(k)fluoranthene	0.284	0.300	94.7%
Benzo(a)pyrene	0.191	0.300	63.7%
Indeno(1,2,3-cd)pyrene	0.201	0.300	67.0%
Dibenz(a,h)anthracene	0.223	0.300	74.3%
Benzo(g,h,i)perylene	0.179	0.300	59.7%
Dibenzofuran	0.269	0.300	89.7%

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	77.0%
d14-Dibenzo(a,h)anthracene	74.7%

4B

SEMIVOLATILE METHOD BLANK SUMMARY

BLANK NO.

QL58MBW1

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

ARI Job No: QL58 Project: LORA LAKE APARTMENTS

Lab File ID: 030406 Date Extracted: 03/01/10

Instrument ID: NT2 Date Analyzed: 03/04/10

Matrix: LIQUID Time Analyzed: 1403

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	QL58LCSW1	QL58LCSW1	030407	03/04/10
02	CB31A022410COMP	QL58A	030408	03/04/10
03	CB4857022410COMP	QL58B	030409	03/04/10
04	CB1022410COMP	QL58C	030410	03/04/10
05	CB1022410COMP MS	QL58CMS	030411	03/04/10
06	CB1022410COMP MS	QL58CMSD	030412	03/04/10
07	CB100022410COMP	QL58D	030413	03/04/10
08				
09				
10				
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12				
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COMMENTS:

FORM IV SV

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by Low Level SW8270D-SIM GC/MS **Sample ID: MB-030110**
Page 1 of 1 **METHOD BLANK**

Lab Sample ID: MB-030110
LIMS ID: 10-4798
Matrix: Water
Data Release Authorized:
Reported: 03/08/10

QC Report No: QL58-Floyd/Snider
Project: Lora Lake Apartments
Event: POS-LLA
Date Sampled: NA
Date Received: NA

Date Extracted: 03/01/10
Date Analyzed: 03/04/10 14:03
Instrument/Analyst: NT2/PK

Sample Amount: 500 mL
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	0.010	< 0.010 U
91-57-6	2-Methylnaphthalene	0.010	< 0.010 U
90-12-0	1-Methylnaphthalene	0.010	< 0.010 U
208-96-8	Acenaphthylene	0.010	< 0.010 U
83-32-9	Acenaphthene	0.010	< 0.010 U
86-73-7	Fluorene	0.010	< 0.010 U
85-01-8	Phenanthrene	0.010	< 0.010 U
120-12-7	Anthracene	0.010	< 0.010 U
206-44-0	Fluoranthene	0.010	< 0.010 U
129-00-0	Pyrene	0.010	< 0.010 U
56-55-3	Benzo(a)anthracene	0.010	< 0.010 U
218-01-9	Chrysene	0.010	< 0.010 U
205-99-2	Benzo(b)fluoranthene	0.010	< 0.010 U
207-08-9	Benzo(k)fluoranthene	0.010	< 0.010 U
50-32-8	Benzo(a)pyrene	0.010	< 0.010 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.010	< 0.010 U
53-70-3	Dibenz(a,h)anthracene	0.010	< 0.010 U
191-24-2	Benzo(g,h,i)perylene	0.010	< 0.010 U
132-64-9	Dibenzofuran	0.010	< 0.010 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	68.7%
d14-Dibenzo(a,h)anthracene	58.7%

PCP/CHLOROPHENOLS ANALYSIS

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Page 1 of 1

Sample ID: CB31A022410Comp
SAMPLE

Lab Sample ID: QL58A
LIMS ID: 10-4796
Matrix: Water
Data Release Authorized:
Reported: 03/05/10

QC Report No: QL58-Floyd/Snider
Project: Lora Lake Apartments
POS-LLA
Date Sampled: 02/24/10
Date Received: 02/25/10

Date Extracted: 03/02/10
Date Analyzed: 03/04/10 23:07
Instrument/Analyst: ECD1/AAR

Sample Amount: 500 mL
Final Extract Volume: 50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	0.25	0.48

Reported in µg/L (ppb)

Chlorophenol Surrogate Recovery	
2,4,6-Tribromophenol	56.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Page 1 of 1

Sample ID: CB4857022410Comp
SAMPLE

Lab Sample ID: QL58B
LIMS ID: 10-4797
Matrix: Water
Data Release Authorized:
Reported: 03/05/10

QC Report No: QL58-Floyd/Snider
Project: Lora Lake Apartments
POS-LLA
Date Sampled: 02/24/10
Date Received: 02/25/10

Date Extracted: 03/02/10
Date Analyzed: 03/04/10 23:27
Instrument/Analyst: ECD1/AAR

Sample Amount: 500 mL
Final Extract Volume: 50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	0.25	0.38

Reported in µg/L (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	55.6%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Page 1 of 1

Sample ID: CB1022410Comp
SAMPLE

Lab Sample ID: QL58C
LIMS ID: 10-4798
Matrix: Water
Data Release Authorized:
Reported: 03/05/10

QC Report No: QL58-Floyd/Snider
Project: Lora Lake Apartments
POS-LLA
Date Sampled: 02/24/10
Date Received: 02/25/10

Date Extracted: 03/02/10
Date Analyzed: 03/04/10 23:47
Instrument/Analyst: ECD1/AAR

Sample Amount: 500 mL
Final Extract Volume: 50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	0.25	< 0.25 U

Reported in µg/L (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	46.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Page 1 of 1

Sample ID: CB100022410Comp
SAMPLE

Lab Sample ID: QL58D
LIMS ID: 10-4799
Matrix: Water
Data Release Authorized:
Reported: 03/05/10

QC Report No: QL58-Floyd/Snider
Project: Lora Lake Apartments
POS-LLA
Date Sampled: 02/24/10
Date Received: 02/25/10

Date Extracted: 03/02/10
Date Analyzed: 03/05/10 00:46
Instrument/Analyst: ECD1/AAR

Sample Amount: 500 mL
Final Extract Volume: 50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	0.25	0.45

Reported in µg/L (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	54.0%

ANALYTICAL RESOURCES INCORPORATED

SW8041 CHLOROPHENOLICS SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: QL58-Floyd/Snider
Project: Lora Lake Apartments
POS-LLA

Client ID	TBP	TOT OUT
CB31A022410Comp	56.0%	0
CB4857022410Comp	55.6%	0
MB-030210	73.6%	0
LCS-030210	72.2%	0
CB1022410Comp	46.8%	0
CB1022410Comp MS	54.8%	0
CB1022410Comp MSD	53.6%	0
CB100022410Comp	54.0%	0

	LCS/MB LIMITS	QC LIMITS
(TBP) = 2,4,6-Tribromophenol	(40-130)	(11-156)

Prep Method: SW3510C
Log Number Range: 10-4796 to 10-4799

FORM-II SW8041

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Page 1 of 1

Sample ID: CB1022410Comp
MS/MSD

Lab Sample ID: QL58C
LIMS ID: 10-4798
Matrix: Water
Data Release Authorized:
Reported: 03/05/10

QC Report No: QL58-Floyd/Snider
Project: Lora Lake Apartments
POS-LLA
Date Sampled: 02/24/10
Date Received: 02/25/10

Date Extracted MS/MSD: 03/02/10

Sample Amount MS: 500 mL
MSD: 500 mL

Date Analyzed MS: 03/05/10 00:07
MSD: 03/05/10 00:27

Final Extract Volume MS: 50 mL
MSD: 50 mL

Instrument/Analyst MS: ECD1/AAR
MSD: ECD1/AAR

Dilution Factor MS: 1.00
MSD: 1.00

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Pentachlorophenol	< 0.25 U	1.69	2.50	67.6%	1.68	2.50	67.2%	0.6%

Results reported in µg/L
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Page 1 of 1

Sample ID: CB1022410Comp
MATRIX SPIKE

Lab Sample ID: QL58C
LIMS ID: 10-4798
Matrix: Water
Data Release Authorized:
Reported: 03/05/10

QC Report No: QL58-Floyd/Snider
Project: Lora Lake Apartments
POS-LLA
Date Sampled: 02/24/10
Date Received: 02/25/10

Date Extracted: 03/02/10
Date Analyzed: 03/05/10 00:07
Instrument/Analyst: ECD1/AAR

Sample Amount: 500 mL
Final Extract Volume: 50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	0.25	---

Reported in µg/L (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	54.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Page 1 of 1

Sample ID: CB1022410Comp
MATRIX SPIKE DUP

Lab Sample ID: QL58C
LIMS ID: 10-4798
Matrix: Water
Data Release Authorized:
Reported: 03/05/10

QC Report No: QL58-Floyd/Snider
Project: Lora Lake Apartments
POS-LLA
Date Sampled: 02/24/10
Date Received: 02/25/10

Date Extracted: 03/02/10
Date Analyzed: 03/05/10 00:27
Instrument/Analyst: ECD1/AAR

Sample Amount: 500 mL
Final Extract Volume: 50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	0.25	---

Reported in µg/L (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	53.6%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041

Sample ID: LCS-030210
LAB CONTROL

Lab Sample ID: LCS-030210
LIMS ID: 10-4798
Matrix: Water
Data Release Authorized:
Reported: 03/05/10

QC Report No: QL58-Floyd/Snider
Project: Lora Lake Apartments
POS-LLA
Date Sampled: 02/24/10
Date Received: 02/25/10

Date Extracted: 03/02/10
Date Analyzed: 03/04/10 22:47
Instrument/Analyst: ECD1/AAR

Sample Amount: 500 mL
Final Extract Volume: 50 mL
Dilution Factor: 1.00

Analyte	Lab Control	Spike Added	Recovery
Pentachlorophenol	2.25	2.50	90.0%

Chlorophenols Surrogate Recovery

2,4,6-Tribromophenol	72.2%

Results reported in µg/L

CHLOROPHENOL METHOD BLANK SUMMARY

SAMPLE NO.

QL58MBW1

Lab Name: ANALYTICAL RESOURCES, INC — Client: FLOYD/SNIDER

ARI Job No.: QL58 — Project: LORA LAKE APARTMENTS

Lab Sample ID: QL58MBW1 — Lab File ID: 0304A022

Matrix (soil/water) LIQUID — Extraction:(SepF/Cont/Sonc) SW3510C

Sulfur Cleanup (Y/N) Y — Date Extracted: 03/02/10

Date Analyzed (1): 03/04/10 — Date Analyzed (2): 03/04/10

Time Analyzed (1): 2228 — Time Analyzed (2): 2228

Instrument ID (1): ECD1 — Instrument ID (2): ECD1

GC Column (1): ZB5 ID: 0.53(mm) — GC Column (2): ZB35 ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	QL58LCSW1	QL58LCSW1	03/04/10	03/04/10
02	CB31A022410C	QL58A	03/04/10	03/04/10
03	CB4857022410	QL58B	03/04/10	03/04/10
04	CB1022410COM	QL58C	03/04/10	03/04/10
05	CB1022410COM	QL58CMS	03/05/10	03/05/10
06	CB1022410COM	QL58CMSD	03/05/10	03/05/10
07	CB100022410C	QL58D	03/05/10	03/05/10

FORM IV HERB

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Page 1 of 1

Sample ID: MB-030210
METHOD BLANK

Lab Sample ID: MB-030210
LIMS ID: 10-4798
Matrix: Water
Data Release Authorized:
Reported: 03/05/10

QC Report No: QL58-Floyd/Snider
Project: Lora Lake Apartments
POS-LLA
Date Sampled: NA
Date Received: NA

Date Extracted: 03/02/10
Date Analyzed: 03/04/10 22:28
Instrument/Analyst: ECD1/AAR

Sample Amount: 500 mL
Final Extract Volume: 50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	0.25	< 0.25 U

Reported in µg/L (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	73.6%

FORM I

METALS ANALYSIS

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: CB31A022410Comp
SAMPLE

Lab Sample ID: QL58A
LIMS ID: 10-4796
Matrix: Water
Data Release Authorized:
Reported: 03/30/10

QC Report No: QL58-Floyd/Snider
Project: Lora Lake Apartments
POS-LLA
Date Sampled: 02/24/10
Date Received: 02/25/10

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	03/01/10	200.8	03/29/10	**7440-38-2**	**Arsenic**	0.2	**1.2**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: CB4857022410Comp
SAMPLE

Lab Sample ID: QL58B
LIMS ID: 10-4797
Matrix: Water
Data Release Authorized:
Reported: 03/30/10

QC Report No: QL58-Floyd/Snider
Project: Lora Lake Apartments
POS-LLA
Date Sampled: 02/24/10
Date Received: 02/25/10

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	03/01/10	200.8	03/29/10	**7440-38-2**	**Arsenic**	0.2	**1.2**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: CB1022410Comp
SAMPLE

Lab Sample ID: QL58C
LIMS ID: 10-4798
Matrix: Water
Data Release Authorized:
Reported: 03/30/10

QC Report No: QL58-Floyd/Snider
Project: Lora Lake Apartments
POS-LLA
Date Sampled: 02/24/10
Date Received: 02/25/10

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	03/01/10	200.8	03/29/10	**7440-38-2**	**Arsenic**	0.2	**1.3**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: CB1022410Comp
DUPLICATE

Lab Sample ID: QL58C
LIMS ID: 10-4798
Matrix: Water
Data Release Authorized:
Reported: 03/30/10

QC Report No: QL58-Floyd/Snider
Project: Lora Lake Apartments
POS-LLA
Date Sampled: 02/24/10
Date Received: 02/25/10

MATRIX DUPLICATE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Duplicate	RPD	Control Limit	Q
Arsenic	200.8	1.3	1.3	0.0%	+/- 20%	

Reported in µg/L

*-Control Limit Not Met
L-RPD Invalid, Limit = Detection Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: CB1022410Comp
MATRIX SPIKE

Lab Sample ID: QL58C
LIMS ID: 10-4798
Matrix: Water
Data Release Authorized:
Reported: 03/30/10

QC Report No: QL58-Floyd/Snider
Project: Lora Lake Apartments
POS-LLA
Date Sampled: 02/24/10
Date Received: 02/25/10

MATRIX SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Spike	Spike Added	% Recovery	Q
Arsenic	200.8	1.32	26.3	25.0	99.9%	

Reported in µg/L

N-Control Limit Not Met
H-% Recovery Not Applicable, Sample Concentration Too High
NA-Not Applicable, Analyte Not Spiked
NR-Not Recovered

Percent Recovery Limits: 75-125%

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: CB100022410Comp
SAMPLE

Lab Sample ID: QL58D
LIMS ID: 10-4799
Matrix: Water
Data Release Authorized:
Reported: 03/30/10

QC Report No: QL58-Floyd/Snider
Project: Lora Lake Apartments
POS-LLA
Date Sampled: 02/24/10
Date Received: 02/25/10

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	03/01/10	200.8	03/29/10	**7440-38-2**	**Arsenic**	0.2	**1.2**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS **Sample ID: METHOD BLANK**

Lab Sample ID: QL58MB
LIMS ID: 10-4799
Matrix: Water
Data Release Authorized:
Reported: 03/30/10

QC Report No: QL58-Floyd/Snider
Project: Lora Lake Apartments
POS-LLA
Date Sampled: NA
Date Received: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	03/01/10	200.8	03/29/10	7440-38-2	Arsenic	0.2	0.2	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS **Sample ID: LAB CONTROL**

Lab Sample ID: QL58LCS
LIMS ID: 10-4799
Matrix: Water
Data Release Authorized:
Reported: 03/30/10

QC Report No: QL58-Floyd/Snider
Project: Lora Lake Apartments
POS-LLA
Date Sampled: NA
Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Arsenic	200.8	25.5	25.0	102%	

Reported in µg/L

N-Control limit not met
Control Limits: 80-120%

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: CB31A022410Comp
SAMPLE

Lab Sample ID: QL58E
LIMS ID: 10-4800
Matrix: Water
Data Release Authorized:
Reported: 03/30/10

QC Report No: QL58-Floyd/Snider
Project: Lora Lake Apartments
POS-LLA
Date Sampled: 02/24/10
Date Received: 02/25/10

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	03/01/10	200.8	03/29/10	**7440-38-2**	**Arsenic**	0.2	0.6	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: CB4857022410Comp
SAMPLE

Lab Sample ID: QL58F
LIMS ID: 10-4801
Matrix: Water
Data Release Authorized:
Reported: 03/30/10

QC Report No: QL58-Floyd/Snider
Project: Lora Lake Apartments
POS-LLA
Date Sampled: 02/24/10
Date Received: 02/25/10

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	03/01/10	200.8	03/29/10	**7440-38-2**	**Arsenic**	0.2	**0.5**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: CB1022410Comp
SAMPLE

Lab Sample ID: QL58G
LIMS ID: 10-4802
Matrix: Water
Data Release Authorized:
Reported: 03/30/10

QC Report No: QL58-Floyd/Snider
Project: Lora Lake Apartments
POS-LLA
Date Sampled: 02/24/10
Date Received: 02/25/10

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	03/01/10	200.8	03/29/10	**7440-38-2**	**Arsenic**	0.2	**1.0**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: CB1022410Comp
DUPLICATE

Lab Sample ID: QL58G
LIMS ID: 10-4802
Matrix: Water
Data Release Authorized:
Reported: 03/30/10

QC Report No: QL58-Floyd/Snider
Project: Lora Lake Apartments
POS-LLA
Date Sampled: 02/24/10
Date Received: 02/25/10

MATRIX DUPLICATE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Duplicate	RPD	Control Limit	Q
Arsenic	200.8	1.0	1.0	0.0%	+/- 0.2	L

Reported in µg/L

*-Control Limit Not Met
L-RPD Invalid, Limit = Detection Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: CB1022410Comp
MATRIX SPIKE

Lab Sample ID: QL58G
LIMS ID: 10-4802
Matrix: Water
Data Release Authorized:
Reported: 03/30/10

QC Report No: QL58-Floyd/Snider
Project: Lora Lake Apartments
POS-LLA
Date Sampled: 02/24/10
Date Received: 02/25/10

MATRIX SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Spike	Spike Added	% Recovery	Q
Arsenic	200.8	0.980	25.2	25.0	96.9%	

Reported in µg/L

N-Control Limit Not Met
H-% Recovery Not Applicable, Sample Concentration Too High
NA-Not Applicable, Analyte Not Spiked

Percent Recovery Limits: 75-125%

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: CB100022410Comp
SAMPLE

Lab Sample ID: QL58H
LIMS ID: 10-4803
Matrix: Water
Data Release Authorized:
Reported: 03/30/10

QC Report No: QL58-Floyd/Snider
Project: Lora Lake Apartments
POS-LLA
Date Sampled: 02/24/10
Date Received: 02/25/10

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	03/01/10	200.8	03/29/10	**7440-38-2**	**Arsenic**	0.2	**0.5**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS **Sample ID: METHOD BLANK**

Lab Sample ID: QL58MB
LIMS ID: 10-4803
Matrix: Water
Data Release Authorized:
Reported: 03/30/10

QC Report No: QL58-Floyd/Snider
Project: Lora Lake Apartments
POS-LLA
Date Sampled: NA
Date Received: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	03/01/10	200.8	03/29/10	7440-38-2	Arsenic	0.2	0.2	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS **Sample ID: LAB CONTROL**

Lab Sample ID: QL58LCS
LIMS ID: 10-4803
Matrix: Water
Data Release Authorized:
Reported: 03/30/10

QC Report No: QL58-Floyd/Snider
Project: Lora Lake Apartments
POS-LLA
Date Sampled: NA
Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Arsenic	200.8	24.9	25.0	99.6%	

Reported in µg/L

N-Control limit not met
Control Limits: 80-120%

GENERAL CHEMISTRY ANALYSIS

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
Total Suspended Solids by Method EPA 160.2

Data Release Authorized:
Reported: 03/01/10
Date Received: 02/25/10
Page 1 of 1

QC Report No: QL58-Floyd/Snider
Project: Lora Lake Apartments
POS-LLA

Client/ ARI ID	Date Sampled	Matrix	Analysis Date & Batch	RL	Result
CB31A022410Comp QL58A 10-4796	02/24/10	Water	02/26/10 12:31 022610#1	2.7	39.5
CB4857022410Comp QL58B 10-4797	02/24/10	Water	02/26/10 12:31 022610#1	4.0	42.8
CB1022410Comp QL58C 10-4798	02/24/10	Water	02/26/10 12:31 022610#1	1.8	7.5
CB100022410Comp QL58D 10-4799	02/24/10	Water	02/26/10 12:31 022610#1	3.3	42.7

Reported in mg/L

RL-Analytical reporting limit
U-Undetected at reported detection limit

REPLICATE RESULTS-CONVENTIONALS
QL58-Floyd/Snider

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 03/01/10

Project: Lora Lake Apartments
Event: POS-LLA
Date Sampled: 02/24/10
Date Received: 02/25/10

Analyte	Date	Units	Sample	Replicate(s)	RPD/RSD
ARI ID: QL58C Client ID: CB1022410Comp					
Total Suspended Solids	02/26/10	mg/L	7.5	8.2	8.9%

LAB CONTROL RESULTS-CONVENTIONALS
QL58-Floyd/Snider

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 03/01/10

Project: Lora Lake Apartments
Event: POS-LLA
Date Sampled: NA
Date Received: NA

Analyte	Date/Time	Units	LCS	Spike Added	Recovery
Total Suspended Solids	02/26/10 12:31	mg/L	49.8	50.0	99.6%

METHOD BLANK RESULTS-CONVENTIONALS
QL58-Floyd/Snider

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 03/01/10

Project: Lora Lake Apartments
Event: POS-LLA
Date Sampled: NA
Date Received: NA

Analyte	Date/Time	Units	Blank
Total Suspended Solids	02/26/10 12:31	mg/L	< 1.0 U

SUBCONTRACTED ANALYSIS

Frontier Analytical Laboratory

Sample Tracking Log

FAL Project ID: **6005**

Received on: **03/02/2010** Project Due: **04/05/2010** Storage: **R1**

FAL Sample ID	Dup	Client Project ID	Client Sample ID	Requested Method	Matrix	Sampling Date	Sampling Time	Hold Time Due Date
6005-001-SA	1	QL58	CB31A022410Comp	EPA 1613 D/F	Aqueous	02/24/2010	02:14 pm	02/24/2011
6005-002-SA	1	QL58	CB4857022410Comp	EPA 1613 D/F	Aqueous	02/24/2010	05:38 pm	02/24/2011
6005-003-SA	1	QL58	CB1022410Comp	EPA 1613 D/F	Aqueous	02/24/2010	05:38 am	02/24/2011
6005-004-SA	1	QL58	CB100022410Comp	EPA 1613 D/F	Aqueous	02/24/2010	03:00 pm	02/24/2011

FAL Sample ID	Notes
6005-001-SA	'Sample on hold pending results of QL95 (FAL ID: 6004).' Off Hold 3/12/10. Due Date: 4/5/10
6005-002-SA	'Sample on hold pending results of QL95 (FAL ID: 6004). Off Hold 3/12/10. Due Date: 4/5/10
6005-003-SA	'Sample on hold pending results of QL95 (FAL ID: 6004). Off Hold 3/12/10. Due Date: 4/5/10
6005-004-SA	'Sample on hold pending results of QL95 (FAL ID: 6004). Off Hold 3/12/10. Due Date: 4/5/10

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EPA Method 1613
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 6005-001-MB
Client ID: Method Blank
Matrix: Aqueous
Batch No: X1968

Date Extracted: 03-22-2010
Date Received: NA
Amount: 1.000 L

ICal: pcddfal3-11-18-09
GC Column: DB5
Units: pg/L

Acquired: 03-24-2010
2005 WHO TEQ: 0.00

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.781		-	0.212				
1,2,3,7,8-PeCDD	ND	1.48		-	0.302				
1,2,3,4,7,8-HxCDD	ND	1.70		-	0.328				
1,2,3,6,7,8-HxCDD	ND	2.03		-	0.381	Total TCDD	ND	0.781	
1,2,3,7,8,9-HxCDD	ND	1.85		-	0.351	Total PeCDD	ND	1.48	
1,2,3,4,6,7,8-HpCDD	ND	2.63		-	0.495	Total HxCDD	ND	2.03	
OCDD	ND	4.43		-	1.02	Total HpCDD	ND	2.63	
2,3,7,8-TCDF	ND	0.637		-	0.112				
1,2,3,7,8-PeCDF	ND	1.27		-	0.219				
2,3,4,7,8-PeCDF	ND	1.34		-	0.232				
1,2,3,4,7,8-HxCDF	ND	1.52		-	0.162				
1,2,3,6,7,8-HxCDF	ND	1.59		-	0.167				
2,3,4,6,7,8-HxCDF	ND	1.59		-	0.167				
1,2,3,7,8,9-HxCDF	ND	1.92		-	0.185	Total TCDF	ND	0.637	
1,2,3,4,6,7,8-HpCDF	ND	2.09		-	0.251	Total PeCDF	ND	1.34	
1,2,3,4,7,8,9-HpCDF	ND	2.53		-	0.280	Total HxCDF	ND	1.92	
OCDF	ND	3.83		-	0.451	Total HpCDF	ND	2.53	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	83.6	25.0 - 164	
13C-1,2,3,7,8-PeCDD	64.8	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	76.6	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	75.6	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	63.3	23.0 - 140	
13C-OCDD	56.1	17.0 - 157	
13C-2,3,7,8-TCDF	80.6	24.0 - 169	
13C-1,2,3,7,8-PeCDF	63.8	24.0 - 185	
13C-2,3,4,7,8-PeCDF	62.3	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	71.0	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	68.2	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	71.0	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	66.3	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	59.3	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	58.0	26.0 - 138	
13C-OCDF	50.1	17.0 - 157	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	93.5	35.0 - 197

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: _____
Date: 3/25/10

Reviewed By: _____
Date: 3/31/10

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EPA Method 1613
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 6005-001-OPR
Client ID: OPR
Matrix: Aqueous
Batch No: X1968

Date Extracted: 03-22-2010
Date Received: NA
Amount: 1.000 L

ICal: pcddfal3-11-18-09
GC Column: DB5
Units: ng/ml

Acquired: 03-24-2010
2005 WHO TEQ: NA

Compound	Conc	QC Limits	Qual
2,3,7,8-TCDD	10.6	6.70 - 15.8	
1,2,3,7,8-PeCDD	49.1	35.0 - 71.0	
1,2,3,4,7,8-HxCDD	50.4	35.0 - 82.0	
1,2,3,6,7,8-HxCDD	48.5	38.0 - 67.0	
1,2,3,7,8,9-HxCDD	46.7	32.0 - 81.0	
1,2,3,4,6,7,8-HpCDD	49.4	35.0 - 70.0	
OCDD	98.8	78.0 - 144	
2,3,7,8-TCDF	9.76	7.50 - 15.8	
1,2,3,7,8-PeCDF	49.3	40.0 - 67.0	
2,3,4,7,8-PeCDF	49.3	34.0 - 80.0	
1,2,3,4,7,8-HxCDF	50.3	36.0 - 67.0	
1,2,3,6,7,8-HxCDF	50.7	42.0 - 65.0	
2,3,4,6,7,8-HxCDF	49.8	35.0 - 78.0	
1,2,3,7,8,9-HxCDF	48.8	39.0 - 65.0	
1,2,3,4,6,7,8-HpCDF	49.0	41.0 - 61.0	
1,2,3,4,7,8,9-HpCDF	48.6	39.0 - 69.0	
OCDF	95.7	63.0 - 170	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	86.2	20.0 - 175	
13C-1,2,3,7,8-PeCDD	64.8	21.0 - 227	
13C-1,2,3,4,7,8-HxCDD	73.4	21.0 - 193	
13C-1,2,3,6,7,8-HxCDD	73.4	25.0 - 163	
13C-1,2,3,4,6,7,8-HpCDD	59.2	26.0 - 166	
13C-OCDD	55.7	13.0 - 198	
13C-2,3,7,8-TCDF	85.3	22.0 - 152	
13C-1,2,3,7,8-PeCDF	62.7	21.0 - 192	
13C-2,3,4,7,8-PeCDF	63.1	13.0 - 328	
13C-1,2,3,4,7,8-HxCDF	68.0	19.0 - 202	
13C-1,2,3,6,7,8-HxCDF	65.8	21.0 - 159	
13C-2,3,4,6,7,8-HxCDF	70.5	22.0 - 176	
13C-1,2,3,7,8,9-HxCDF	64.1	17.0 - 205	
13C-1,2,3,4,6,7,8-HpCDF	56.6	21.0 - 158	
13C-1,2,3,4,7,8,9-HpCDF	54.0	20.0 - 186	
13C-OCDF	50.1	13.0 - 198	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	102	31.0 - 191

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: _____
Date: 3/25/10

Reviewed By: _____
Date: 3/25/10

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EPA Method 1613
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 6005-001-SA
Client ID: CB31A022410Comp
Matrix: Aqueous
Batch No: X1968

Date Extracted: 03-22-2010
Date Received: 03-02-2010
Amount: 0.486 L

ICal: pcddfal3-11-18-09
GC Column: DB5
Units: pg/L

Acquired: 03-24-2010
2005 WHO TEQ: 16.3

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	3.52		-	0.212				
1,2,3,7,8-PeCDD	ND	3.61		-	0.302				
1,2,3,4,7,8-HxCDD	7.11	-	J	0.711	0.328				
1,2,3,6,7,8-HxCDD	17.8	-	J	1.78	0.381	Total TCDD	ND	3.52	
1,2,3,7,8,9-HxCDD	12.8	-	J	1.28	0.351	Total PeCDD	ND	5.74	
1,2,3,4,6,7,8-HpCDD	522	-		5.22	0.495	Total HxCDD	99.3	-	
OCDD	4290	-		1.29	1.02	Total HpCDD	898	-	
2,3,7,8-TCDF	ND	1.39		-	0.112				
1,2,3,7,8-PeCDF	ND	2.44		-	0.219				
2,3,4,7,8-PeCDF	ND	2.59		-	0.232				
1,2,3,4,7,8-HxCDF	20.7	-	J	2.07	0.162				
1,2,3,6,7,8-HxCDF	14.6	-	J	1.46	0.167				
2,3,4,6,7,8-HxCDF	9.09	-	J	0.909	0.167				
1,2,3,7,8,9-HxCDF	ND	3.76		-	0.185	Total TCDF	24.3	-	D,M
1,2,3,4,6,7,8-HpCDF	135	-		1.35	0.251	Total PeCDF	86.8	-	D,M
1,2,3,4,7,8,9-HpCDF	13.6	-	J	0.136	0.280	Total HxCDF	315	-	D,M
OCDF	324	-		0.0972	0.451	Total HpCDF	388	-	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	82.4	25.0 - 164	
13C-1,2,3,7,8-PeCDD	72.8	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	82.1	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	81.0	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	84.2	23.0 - 140	
13C-OCDD	89.7	17.0 - 157	
13C-2,3,7,8-TCDF	81.0	24.0 - 169	
13C-1,2,3,7,8-PeCDF	74.8	24.0 - 185	
13C-2,3,4,7,8-PeCDF	72.3	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	73.5	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	72.3	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	73.5	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	74.9	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	73.8	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	76.9	26.0 - 138	
13C-OCDF	73.0	17.0 - 157	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	85.0	35.0 - 197

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: _____
Date: 3/25/10

Reviewed By: _____
Date: 3/25/10

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EPA Method 1613
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 6005-002-SA
Client ID: CB4857022410Comp
Matrix: Aqueous
Batch No: X1968

Date Extracted: 03-22-2010
Date Received: 03-02-2010
Amount: 0.479 L

ICal: pcddfal3-11-18-09
GC Column: DB5
Units: pg/L

Acquired: 03-24-2010
2005 WHO TEQ: 18.9

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	2.88		-	0.212				
1,2,3,7,8-PeCDD	ND	5.73		-	0.302				
1,2,3,4,7,8-HxCDD	8.14	-	J	0.814	0.328				
1,2,3,6,7,8-HxCDD	19.5	-	J	1.95	0.381	Total TCDD	ND	2.88	
1,2,3,7,8,9-HxCDD	15.2	-	J	1.52	0.351	Total PeCDD	ND	5.73	
1,2,3,4,6,7,8-HpCDD	626	-		6.26	0.495	Total HxCDD	111 *	-	
OCDD	7060	-		2.12	1.02	Total HpCDD	1090	-	
2,3,7,8-TCDF	ND	1.72		-	0.112				
1,2,3,7,8-PeCDF	ND	2.33		-	0.219				
2,3,4,7,8-PeCDF	ND	2.48		-	0.232				
1,2,3,4,7,8-HxCDF	23.8	-	J	2.38	0.162				
1,2,3,6,7,8-HxCDF	13.4	-	J	1.34	0.167				
2,3,4,6,7,8-HxCDF	8.80	-	J	0.880	0.167				
1,2,3,7,8,9-HxCDF	ND	2.79		-	0.185	Total TCDF	28.1	-	D,M
1,2,3,4,6,7,8-HpCDF	140	-		1.40	0.251	Total PeCDF	91.5	-	D,M
1,2,3,4,7,8,9-HpCDF	15.3	-	J	0.153	0.280	Total HxCDF	321	-	D,M
OCDF	346	-		0.104	0.451	Total HpCDF	411	-	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	96.5	25.0 - 164	
13C-1,2,3,7,8-PeCDD	80.8	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	97.0	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	92.3	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	100	23.0 - 140	
13C-OCDD	107	17.0 - 157	
13C-2,3,7,8-TCDF	94.6	24.0 - 169	
13C-1,2,3,7,8-PeCDF	85.3	24.0 - 185	
13C-2,3,4,7,8-PeCDF	80.6	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	85.1	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	82.6	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	85.6	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	87.2	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	84.9	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	91.1	26.0 - 138	
13C-OCDF	87.1	17.0 - 157	

Cleanup Surrogate			
37Cl-2,3,7,8-TCDD	101	35.0 - 197	

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: _____
Date: 3/25/10

Reviewed By: _____
Date: 3/25/10

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EPA Method 1613
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 6005-003-SA
Client ID: CB1022410Comp
Matrix: Aqueous
Batch No: X1968

Date Extracted: 03-22-2010
Date Received: 03-02-2010
Amount: 0.486 L

ICal: pcddfal3-11-18-09
GC Column: DB5
Units: pg/L

Acquired: 03-24-2010
2005 WHO TEQ: 0.279

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	2.74		-	0.212				
1,2,3,7,8-PeCDD	ND	2.31		-	0.302				
1,2,3,4,7,8-HxCDD	ND	3.55		-	0.328				
1,2,3,6,7,8-HxCDD	ND	4.14		-	0.381	Total TCDD	ND	2.74	
1,2,3,7,8,9-HxCDD	ND	3.81		-	0.351	Total PeCDD	ND	2.31	
* 1,2,3,4,6,7,8-HpCDD	18.7	-	J	0.187	0.495	Total HxCDD	ND	4.14	
OCDD	132	-		0.0396	1.02	Total HpCDD	37.5	-	J
2,3,7,8-TCDF	ND	1.22		-	0.112				
1,2,3,7,8-PeCDF	ND	2.24		-	0.219				
2,3,4,7,8-PeCDF	ND	2.30		-	0.232				
1,2,3,4,7,8-HxCDF	ND	3.70		-	0.162				
1,2,3,6,7,8-HxCDF	ND	3.81		-	0.167				
2,3,4,6,7,8-HxCDF	ND	3.85		-	0.167				
1,2,3,7,8,9-HxCDF	ND	4.16		-	0.185	Total TCDF	ND	1.22	
1,2,3,4,6,7,8-HpCDF	4.88	-	J	0.0488	0.251	Total PeCDF	ND	2.30	
1,2,3,4,7,8,9-HpCDF	ND	1.83		-	0.280	Total HxCDF	ND	4.16	
OCDF	10.7	-	J	0.00321	0.451	Total HpCDF	10.2	-	J

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	93.5	25.0 - 164	
13C-1,2,3,7,8-PeCDD	79.0	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	92.1	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	91.1	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	90.5	23.0 - 140	
13C-OCDD	95.3	17.0 - 157	
13C-2,3,7,8-TCDF	90.5	24.0 - 169	
13C-1,2,3,7,8-PeCDF	85.1	24.0 - 185	
13C-2,3,4,7,8-PeCDF	79.8	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	79.5	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	77.5	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	78.6	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	79.2	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	80.5	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	82.2	26.0 - 138	
13C-OCDF	79.6	17.0 - 157	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	99.5	35.0 - 197

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: _____
Date: 3/25/10

Reviewed By: _____
Date: 3/25/10

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EPA Method 1613
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 6005-004-SA
Client ID: CB100022410Comp
Matrix: Aqueous
Batch No: X1968

Date Extracted: 03-22-2010
Date Received: 03-02-2010
Amount: 0.483 L

ICal: pcddfal3-11-18-09
GC Column: DB5
Units: pg/L

Acquired: 03-24-2010
2005 WHO TEQ: 18.9

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	3.14		-	0.212				
1,2,3,7,8-PeCDD	ND	4.03		-	0.302				
1,2,3,4,7,8-HxCDD	7.93	-	J	0.793	0.328				
1,2,3,6,7,8-HxCDD	20.5	-	J	2.05	0.381	Total TCDD	ND	3.14	
1,2,3,7,8,9-HxCDD	14.8	-	J	1.48	0.351	Total PeCDD	ND	4.03	
1,2,3,4,6,7,8-HpCDD	615	-		6.15	0.495	Total HxCDD	114	-	
OCDD	5430	-		1.63	1.02	Total HpCDD	1040	-	
2,3,7,8-TCDF	ND	1.68		-	0.112				
1,2,3,7,8-PeCDF	ND	3.31		-	0.219				
2,3,4,7,8-PeCDF	ND	3.51		-	0.232				
1,2,3,4,7,8-HxCDF	23.8	-	J	2.38	0.162				
1,2,3,6,7,8-HxCDF	16.1	-	J	1.61	0.167				
2,3,4,6,7,8-HxCDF	10.0	-	J	1.00	0.167				
1,2,3,7,8,9-HxCDF	ND	2.82		-	0.185	Total TCDF	28.9	-	D,M
1,2,3,4,6,7,8-HpCDF	154	-		1.54	0.251	Total PeCDF	96.0	-	D,M
1,2,3,4,7,8,9-HpCDF	15.8	-	J	0.158	0.280	Total HxCDF	365	-	D,M
OCDF	376	-		0.113	0.451	Total HpCDF	456	-	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	80.6	25.0 - 164	
13C-1,2,3,7,8-PeCDD	68.9	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	76.9	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	75.3	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	82.6	23.0 - 140	
13C-OCDD	84.9	17.0 - 157	
13C-2,3,7,8-TCDF	79.8	24.0 - 169	
13C-1,2,3,7,8-PeCDF	71.4	24.0 - 185	
13C-2,3,4,7,8-PeCDF	69.5	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	70.7	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	66.7	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	69.9	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	71.7	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	69.3	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	73.7	26.0 - 138	
13C-OCDF	70.0	17.0 - 157	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	86.3	35.0 - 197

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: _____
Date: 3/25/10

Reviewed By: _____
Date: 3/25/10

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Laboratory Data Package

prepared
for

Floyd/Snider

Project: Lora Lake Apartments, POS-LLA

ARI JOB NO: QL58

prepared
by

Analytical Resources, Inc.

SIM Semivolatile Analysis
QC Summary Data

prepared
for

Floyd/Snider

Project: Lora Lake Apartments, POS-LLA

ARI JOB NO: QL58

prepared
by

Analytical Resources, Inc.

ANALYTICAL RESOURCES INCORPORATED

SIM SW8270 SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: QL58-Floyd/Snider
Project: Lora Lake Apartments
POS-LLA

Client ID	MNP	DBA	TOT OUT
CB31A022410Comp	59.7%	57.7%	0
CB4857022410Comp	67.7%	63.7%	0
MB-030110	68.7%	58.7%	0
LCS-030110	77.0%	74.7%	0
CB1022410Comp	70.3%	39.3%	0
CB1022410Comp MS	63.0%	51.3%	0
CB1022410Comp MSD	72.7%	50.7%	0
CB100022410Comp	68.0%	72.3%	0

	LCS/MB LIMITS	QC LIMITS
(MNP) = d10-2-Methylnaphthalene	(42-100)	(31-109)
(DBA) = d14-Dibenzo(a,h)anthracene	(40-125)	(10-133)

Prep Method: SW3520C
Log Number Range: 10-4796 to 10-4799

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by Low Level SW8270D-SIM GC/MS
Page 1 of 1

Sample ID: CB1022410Comp
MATRIX SPIKE

Lab Sample ID: QL58C
LIMS ID: 10-4798
Matrix: Water
Data Release Authorized:
Reported: 03/08/10

QC Report No: QL58-Floyd/Snider
Project: Lora Lake Apartments
Event: POS-LLA
Date Sampled: 02/24/10
Date Received: 02/25/10

Date Extracted MS/MSD: 03/01/10

Date Analyzed MS: 03/04/10 16:06
MSD: 03/04/10 16:30
Instrument/Analyst MS: NT2/PK
MSD: NT2/PK

Sample Amount MS: 500 mL
MSD: 500 mL
Final Extract Volume MS: 0.50 mL
MSD: 0.50 mL
Dilution Factor MS: 1.00
MSD: 1.00

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Naphthalene	0.0152	0.178	0.300	54.3%	0.205	0.300	63.3%	14.1%
2-Methylnaphthalene	< 0.0100 U	0.184	0.300	61.3%	0.212	0.300	70.7%	14.1%
1-Methylnaphthalene	< 0.0100 U	0.176	0.300	58.7%	0.202	0.300	67.3%	13.8%
Acenaphthylene	< 0.0100 U	0.201	0.300	67.0%	0.223	0.300	74.3%	10.4%
Acenaphthene	< 0.0100 U	0.200	0.300	66.7%	0.230	0.300	76.7%	14.0%
Fluorene	< 0.0100 U	0.223	0.300	74.3%	0.248	0.300	82.7%	10.6%
Phenanthrene	< 0.0100 U	0.260	0.300	86.7%	0.276	0.300	92.0%	6.0%
Anthracene	< 0.0100 U	0.220	0.300	73.3%	0.239	0.300	79.7%	8.3%
Fluoranthene	< 0.0100 U	0.259	0.300	86.3%	0.270	0.300	90.0%	4.2%
Pyrene	< 0.0100 U	0.260	0.300	86.7%	0.274	0.300	91.3%	5.2%
Benzo(a)anthracene	< 0.0100 U	0.225	0.300	75.0%	0.234	0.300	78.0%	3.9%
Chrysene	< 0.0100 U	0.230	0.300	76.7%	0.242	0.300	80.7%	5.1%
Benzo(b)fluoranthene	< 0.0100 U	0.167	0.300	55.7%	0.177	0.300	59.0%	5.8%
Benzo(k)fluoranthene	< 0.0100 U	0.193	0.300	64.3%	0.210	0.300	70.0%	8.4%
Benzo(a)pyrene	< 0.0100 U	0.174	0.300	58.0%	0.184	0.300	61.3%	5.6%
Indeno(1,2,3-cd)pyrene	< 0.0100 U	0.146	0.300	48.7%	0.156	0.300	52.0%	6.6%
Dibenz(a,h)anthracene	< 0.0100 U	0.151	0.300	50.3%	0.161	0.300	53.7%	6.4%
Benzo(g,h,i)perylene	< 0.0100 U	0.148	0.300	49.3%	0.155	0.300	51.7%	4.6%
Dibenzofuran	< 0.0100 U	0.237	0.300	79.0%	0.273	0.300	91.0%	14.1%

Reported in µg/L (ppb)

RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by Low Level SW8270D-SIM GC/MS
Page 1 of 1

Sample ID: LCS-030110
LAB CONTROL SAMPLE

Lab Sample ID: LCS-030110
LIMS ID: 10-4798
Matrix: Water
Data Release Authorized:
Reported: 03/08/10

QC Report No: QL58-Floyd/Snider
Project: Lora Lake Apartments
Event: POS-LLA
Date Sampled: NA
Date Received: NA

Date Extracted LCS/LCSD: 03/01/10
Date Analyzed LCS: 03/04/10 14:27
Instrument/Analyst LCS: NT2/PK

Sample Amount LCS: 500 mL
Final Extract Volume LCS: 0.50 mL
Dilution Factor LCS: 1.00

Analyte	LCS	Spike Added	Recovery
Naphthalene	0.218	0.300	72.7%
2-Methylnaphthalene	0.229	0.300	76.3%
1-Methylnaphthalene	0.220	0.300	73.3%
Acenaphthylene	0.205	0.300	68.3%
Acenaphthene	0.230	0.300	76.7%
Fluorene	0.243	0.300	81.0%
Phenanthrene	0.263	0.300	87.7%
Anthracene	0.198	0.300	66.0%
Fluoranthene	0.277	0.300	92.3%
Pyrene	0.260	0.300	86.7%
Benzo(a)anthracene	0.256	0.300	85.3%
Chrysene	0.301	0.300	100%
Benzo(b)fluoranthene	0.234	0.300	78.0%
Benzo(k)fluoranthene	0.284	0.300	94.7%
Benzo(a)pyrene	0.191	0.300	63.7%
Indeno(1,2,3-cd)pyrene	0.201	0.300	67.0%
Dibenz(a,h)anthracene	0.223	0.300	74.3%
Benzo(g,h,i)perylene	0.179	0.300	59.7%
Dibenzofuran	0.269	0.300	89.7%

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	77.0%
d14-Dibenzo(a,h)anthracene	74.7%

4B

SEMIVOLATILE METHOD BLANK SUMMARY

BLANK NO.

QL58MBW1

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

ARI Job No: QL58 Project: LORA LAKE APARTMENTS

Lab File ID: 030406 Date Extracted: 03/01/10

Instrument ID: NT2 Date Analyzed: 03/04/10

Matrix: LIQUID Time Analyzed: 1403

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	QL58LCSW1	QL58LCSW1	030407	03/04/10
02	CB31A022410COMP	QL58A	030408	03/04/10
03	CB4857022410COMP	QL58B	030409	03/04/10
04	CB1022410COMP	QL58C	030410	03/04/10
05	CB1022410COMP MS	QL58CMS	030411	03/04/10
06	CB1022410COMP MS	QL58CMSD	030412	03/04/10
07	CB100022410COMP	QL58D	030413	03/04/10
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COMMENTS:

FORM IV SV

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

Instrument ID: NT2 Project: LORA LAKE APARTMENTS

DFTPP Injection Date: 10/21/09 DFTPP Injection Time: 1055

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	61.3
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	75.3
70	Less than 2.0% of mass 69	0.2 (0.2)1
127	25.0 - 75.0% of mass 198	61.7
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.3
275	10.0 - 30.0% of mass 198	20.6
365	Greater than 0.75% of mass 198	3.13
441	Present, but less than mass 443	8.4
442	40.0 - 110.0% of mass 198	59.0
443	15.0 - 24.0% of mass 442	11.6 (19.6)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		PNA 250	IC102101	10/21/09	1137
02		PNA 1000	IC102102	10/21/09	1200
03		PNA 10	IC102103	10/21/09	1222
04		PNA 500	IC102104	10/21/09	1245
05		PNA 50	IC102105	10/21/09	1307
06		PNA 100	IC102106	10/21/09	1330
07					
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22					

FORM V SV

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

Instrument ID: NT2 Project: LORA LAKE APARTMENTS

DFTPP Injection Date: 03/04/10 DFTPP Injection Time: 1036

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	61.5
68	Less than 2.0% of mass 69	0.1 (0.1)1
69	Mass 69 relative abundance	77.2
70	Less than 2.0% of mass 69	0.6 (0.8)1
127	10.0 - 80.0% of mass 198	63.4
197	Less than 2.0% of mass 198	0.1
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.3
275	10.0 - 60.0% of mass 198	21.4
365	Greater than 1.0% of mass 198	4.25
441	0.0 - 24.0% of mass 442	9.3 (14.3)2
442	50.0 - 200.0% of mass 198	64.8
443	15.0 - 24.0% of mass 442	11.9 (18.4)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		PNA 250	CC0304	03/04/10	1053
02	QL58MBW1	QL58MBW1	030406	03/04/10	1403
03	QL58LCSW1	QL58LCSW1	030407	03/04/10	1427
04	CB31A022410COMP	QL58A	030408	03/04/10	1452
05	CB4857022410COMP	QL58B	030409	03/04/10	1516
06	CB1022410COMP	QL58C	030410	03/04/10	1541
07	CB1022410COMP MS	QL58CMS	030411	03/04/10	1606
08	CB1022410COMP MS	QL58CMSD	030412	03/04/10	1630
09	CB100022410COMP	QL58D	030413	03/04/10	1655
10					
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14					
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20					
21					
22					

FORM V SV

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

ARI Job No: QL58 Project: LORA LAKE APARTMENTS

Ical Midpoint ID: IC102101 Ical Date: 10/21/09

Instrument ID: NT2 Cont. Cal Date: 03/04/10

		IS1(NPT) AREA	#	RT	#	IS2(ANT) AREA	#	RT	#	IS3(PHN) AREA	#	RT	#
	ICAL MIDPT	173109		6.23		96677		8.42		147750		10.21	
	UPPER LIMIT	346218				193354				295500			
	LOWER LIMIT	86554				48338				73875			
	CCAL	263993		6.97		121193		9.16		179277		11.00	
	UPPER LIMIT			7.47				9.66				11.50	
	LOWER LIMIT			6.47				8.66				10.50	
01	QL58MBW1	265403		6.97		130397		9.16		188849		11.00	
02	QL58LCSW1	252395		6.97		126690		9.17		185589		11.00	
03	CB31A022410C	251378		6.97		123399		9.17		176295		11.00	
04	CB4857022410	247888		6.97		121086		9.16		176296		11.00	
05	CB1022410COM	254033		6.96		124735		9.16		181797		11.00	
06	CB1022410COM	262772		6.96		124155		9.16		180669		10.99	
07	CB1022410COM	242259		6.97		116549		9.16		171978		11.00	
08	CB100022410C	250336		6.97		116616		9.16		174682		11.00	
09													
10													
11													
12													
13													
14													
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23													
24													
25													

IS1 = Naphthalene-d8
IS2 = Acenaphthene-d10
IS3 = Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area from Ical midpoint
AREA LOWER LIMIT = - 50% of internal standard area from Ical midpoint
RT UPPER LIMIT = + 0.50 minutes of internal standard RT from Cont. Cal
RT LOWER LIMIT = - 0.50 minutes of internal standard RT from Cont. Cal

* Values outside of QC limits.

FORM VIII SV-1

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

ARI Job No: QL58 Project: LORA LAKE APARTMENTS

Ical Midpoint ID: IC102101 Ical Date: 10/21/09

Instrument ID: NT2 Cont. Cal Date: 03/04/10

		IS4(CRY) AREA #	RT #	IS5(PRY) AREA #	RT #	AREA #	RT #
	ICAL MIDPT	135219	13.47	125815	15.11		
	UPPER LIMIT	270438		251630			
	LOWER LIMIT	67610		62908			
	CCAL	168174	14.28	156886	16.09		
	UPPER LIMIT		14.78		16.59		
	LOWER LIMIT		13.78		15.59		
01	QL58MBW1	177979	14.28	183322	16.09		
02	QL58LCSW1	174320	14.28	174376	16.09		
03	CB31A022410C	188697	14.29	207246	16.09		
04	CB4857022410	192121	14.29	196774	16.09		
05	CB1022410COM	179867	14.28	188810	16.09		
06	CB1022410COM	175427	14.28	184632	16.09		
07	CB1022410COM	167316	14.28	168678	16.09		
08	CB100022410C	183394	14.29	189085	16.10		
09							
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25							

IS4 = Chrysene-d12
IS5 = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area from Ical midpoint
AREA LOWER LIMIT = - 50% of internal standard area from Ical midpoint
RT UPPER LIMIT = + 0.50 minutes of internal standard RT from Cont. Cal
RT LOWER LIMIT = - 0.50 minutes of internal standard RT from Cont. Cal

* Values outside of QC limits.

FORM VIII SV-2

SIM Semivolatile Analysis
Sample Data

prepared
for

Floyd/Snider

Project: Lora Lake Apartments, POS-LLA

ARI JOB NO: QL58

prepared
by

Analytical Resources, Inc.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by Low Level SW8270D-SIM GC/MS
Page 1 of 1

Sample ID: CB31A022410Comp
SAMPLE

Lab Sample ID: QL58A
LIMS ID: 10-4796
Matrix: Water
Data Release Authorized:
Reported: 03/08/10

QC Report No: QL58-Floyd/Snider
Project: Lora Lake Apartments
Event: POS-LLA
Date Sampled: 02/24/10
Date Received: 02/25/10

Date Extracted: 03/01/10
Date Analyzed: 03/04/10 14:52
Instrument/Analyst: NT2/PK

Sample Amount: 500 mL
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
91-20-3	**Naphthalene**	**0.010**	**0.023**
91-57-6	**2-Methylnaphthalene**	**0.010**	**0.016**
90-12-0	1-Methylnaphthalene	0.010	< 0.010 U
208-96-8	Acenaphthylene	0.010	< 0.010 U
83-32-9	Acenaphthene	0.010	< 0.010 U
86-73-7	Fluorene	0.010	< 0.010 U
85-01-8	**Phenanthrene**	**0.010**	**0.074**
120-12-7	Anthracene	0.010	< 0.010 U
206-44-0	**Fluoranthene**	**0.010**	**0.14**
129-00-0	**Pyrene**	**0.010**	**0.18**
56-55-3	**Benzo(a)anthracene**	**0.010**	**0.023**
218-01-9	**Chrysene**	**0.010**	**0.084**
205-99-2	**Benzo(b)fluoranthene**	**0.010**	**0.034**
207-08-9	**Benzo(k)fluoranthene**	**0.010**	**0.034**
50-32-8	**Benzo(a)pyrene**	**0.010**	**0.032**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.010**	**0.024**
53-70-3	Dibenz(a,h)anthracene	0.010	< 0.010 U
191-24-2	**Benzo(g,h,i)perylene**	**0.010**	**0.056**
132-64-9	Dibenzofuran	0.010	< 0.010 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	59.7%
d14-Dibenzo(a,h)anthracene	57.7%

Analytical Resources, Inc.

LOW LEVEL PNAs BY SW8270D-SIM

Data file : /chem3/nt2.i/20100304.b/030408.d
Lab Smp Id: QL58A Client Smp ID: CB31A022410Comp
Inj Date : 04-MAR-2010 14:52
Operator : VTS Inst ID: nt2.i
Smp Info : QL58A
Misc Info : 10-4796
Comment :
Method : /chem3/nt2.i/20100304.b/lowsim.m
Meth Date : 05-Mar-2010 11:18 peter Quant Type: ISTD
Cal Date : 21-OCT-2009 13:30 Cal File: ic102106.d
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pna1mn.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Vt / Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Final Extract Volume (uL)
Vo	500.00000	Sample Volume extracted (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/mL)	CONCENTRATIONS FINAL (ug/L)
*	4 Naphthalene-d8	136	6.965	6.967	(1.000)	251378	200.000	
	5 Naphthalene	128	6.981	6.982	(1.002)	27816	22.9797	23.0
$	6 2-Methylnaphthalene-d10	152	7.812	7.813	(1.121)	116136	179.372	179
	7 2-Methylnaphthalene	142	7.842	7.844	(1.126)	11010	15.5971	15.6
	8 1-Methylnaphthalene	142	7.981	7.982	(1.146)	5723	7.78948	7.79
	10 Acenaphthylene	152	8.968	8.969	(0.978)	5378	5.50718	5.51
*	11 Acenaphthene-d10	164	9.175	9.162	(1.000)	123399	200.000	
	12 Acenaphthene	153	Compound Not Detected.					
	14 Dibenzofuran	168	9.407	9.407	(1.025)	4614	5.84434	5.84(M)
	15 Fluorene	166	9.816	9.817	(1.070)	5395	8.26635	8.27
*	18 Phenanthrene-d10	188	11.001	11.002	(1.000)	176295	200.000	
	19 Phenanthrene	178	11.016	11.017	(1.001)	64393	73.4862	73.5
	20 Anthracene	178	11.078	11.078	(1.007)	5657	6.31781	6.32
	24 Fluoranthene	202	12.505	12.505	(1.137)	135967	142.463	142
	25 Pyrene	202	12.779	12.780	(1.162)	170688	176.183	176

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/mL)	FINAL (ug/L)
	28 Benzo(a)anthracene	228	14.272	14.261	(0.998)	21858	23.2088	23.2
*	29 Chrysene-d12	240	14.293	14.283	(1.000)	188697	200.000	
	30 Chrysene	228	14.315	14.316	(1.002)	78054	84.0018	84.0
	32 Benzo(b)fluoranthene	252	15.572	15.572	(0.968)	82852	69.7777	69.8
	33 Benzo(k)fluoranthene	252	15.572	15.595	(0.968)	85096	66.0076	66.0
	34 Benzo(a)pyrene	252	16.014	16.006	(0.995)	29661	31.8818	31.9(M)
*	35 Perylene-d12	264	16.091	16.091	(1.000)	207246	200.000	
	37 Indeno(1,2,3-cd)pyrene	276	17.875	17.873	(1.111)	25767	23.9003	23.9
$	36 Dibenzo(a,h)anthracene-d14	292	17.834	17.820	(1.108)	108529	172.766	173
	38 Dibenzo(a,h)anthracene	278	17.888	17.887	(1.112)	7516	8.91290	8.91(M)
	39 Benzo(g,h,i)perylene	276	18.401	18.399	(1.144)	52034	55.9722	56.0

34.0

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt2.i
Lab File ID: 030408.d
Lab Smp Id: QL58A
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt2.i/20100304.b/lowsim.m
Misc Info: 10-4796

Calibration Date: 04-MAR-2010
Calibration Time: 10:53
Client Smp ID: CB31A022410Comp
Level: LOW
Sample Type: Water

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
4 Naphthalene-d8	173109	86554	346218	251378	45.21
11 Acenaphthene-d10	96677	48338	193354	123399	27.64
18 Phenanthrene-d10	147750	73875	295500	176295	19.32
29 Chrysene-d12	135219	67610	270438	188697	39.55
35 Perylene-d12	125815	62908	251630	207246	64.72

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
4 Naphthalene-d8	6.97	6.47	7.47	6.97	-0.02
11 Acenaphthene-d10	9.16	8.66	9.66	9.17	0.13
18 Phenanthrene-d10	11.00	10.50	11.50	11.00	-0.01
29 Chrysene-d12	14.28	13.78	14.78	14.29	0.07
35 Perylene-d12	16.09	15.59	16.59	16.09	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Floyd/Snider
Sample Matrix: LIQUID
Lab Smp Id: QL58A
Level: LOW
Data Type: MS DATA
SpikeList File: waterlcs.spk
Sublist File: pna1mn.sub
Method File: /chem3/nt2.i/20100304.b/lowsim.m
Misc Info: 10-4796

Client SDG: QL58
Fraction: SV
Client Smp ID: CB31A022410Comp
Operator: VTS
SampleType: SAMPLE
Quant Type: ISTD

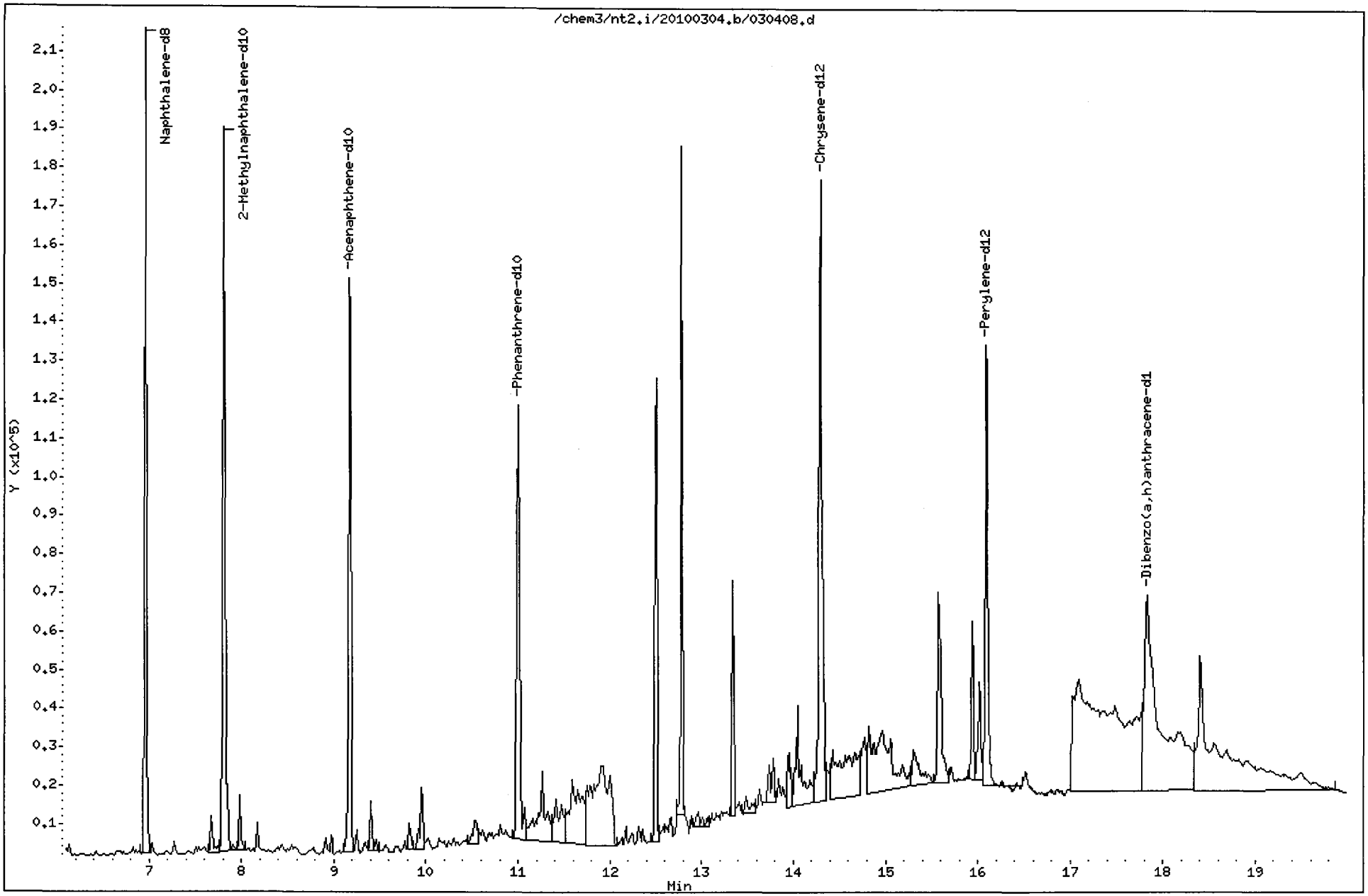
SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 6 2-Methylnaphthalen	300	179	59.79	31-109
$ 36 Dibenzo(a,h)anthra	300	173	57.59	10-133

Data File: /chem3/nt2.i/20100304.b/030408.d
Date : 04-MAR-2010 14:52
Client ID: CB31A022410Comp
Sample Info: QL58A
Volume Injected (uL): 2.0
Column phase: ZB-5

Instrument: nt2.i

Operator: VTS
Column diameter: 0.25

QL58 : 66639



Data File: /chem3/nt2.i/20100304.b/030408.d

Date : 04-MAR-2010 14:52

Client ID: CB31A022410Comp

Instrument: nt2.i

Sample Info: QL58A

Volume Injected (uL): 2.0

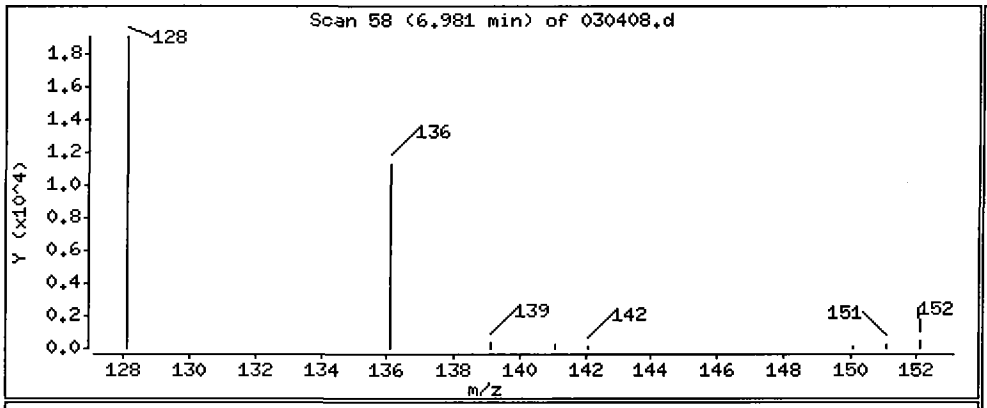
Operator: VTS

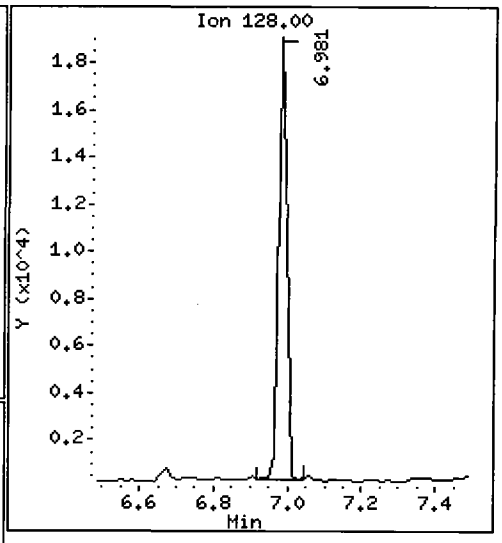
Column phase: ZB-5

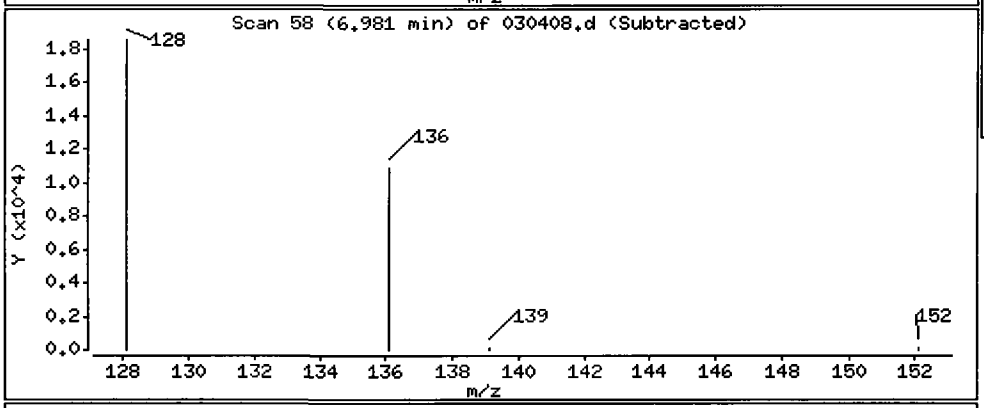
Column diameter: 0.25

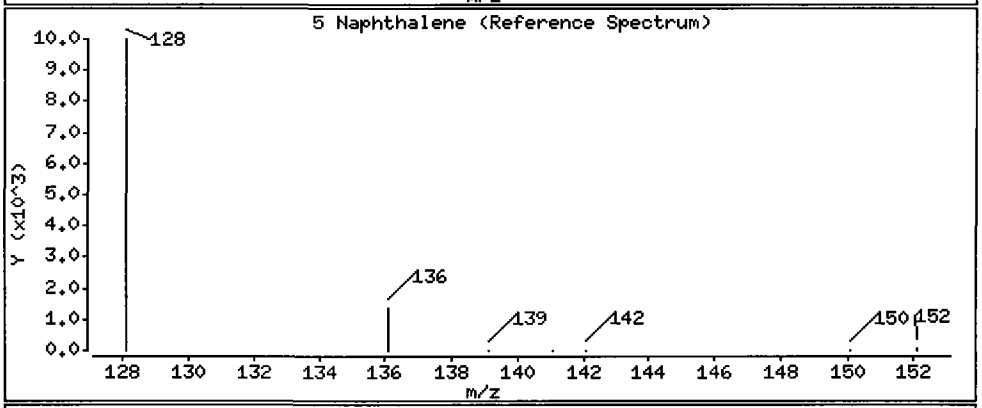
5 Naphthalene

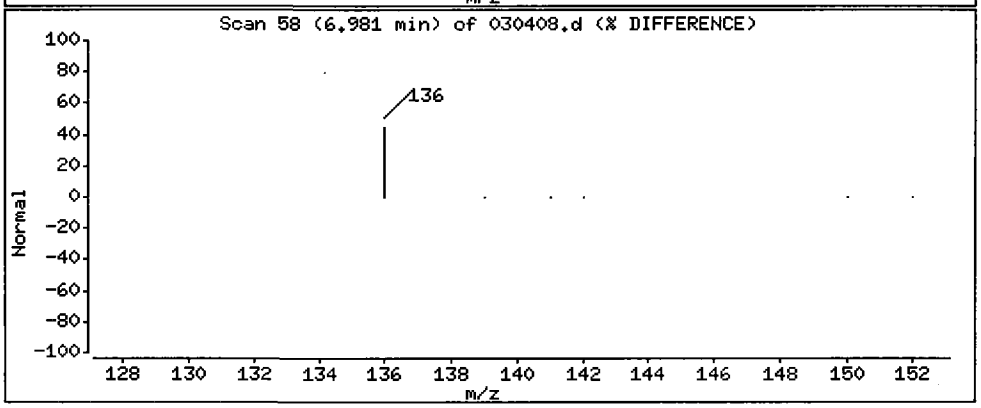
Concentration: 23.0 ug/L











Data File: /chem3/nt2.i/20100304.b/030408.d

Date : 04-MAR-2010 14:52

Client ID: CB31A022410Comp

Instrument: nt2.i

Sample Info: QL58A

Volume Injected (uL): 2.0

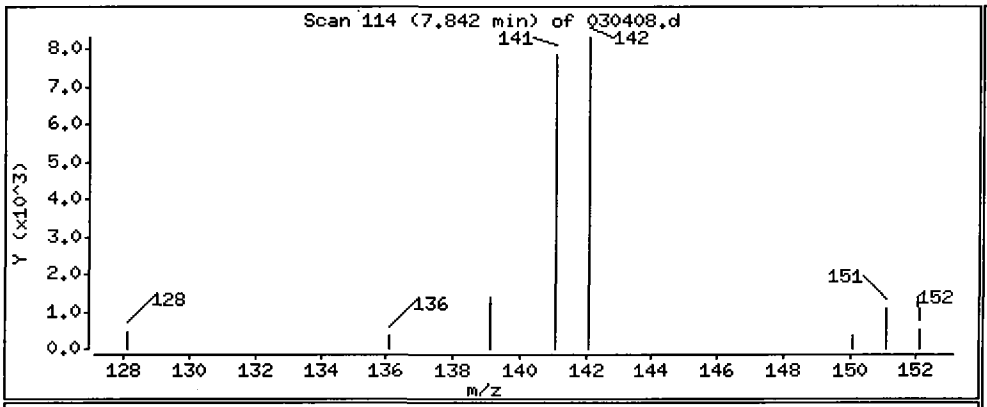
Operator: VTS

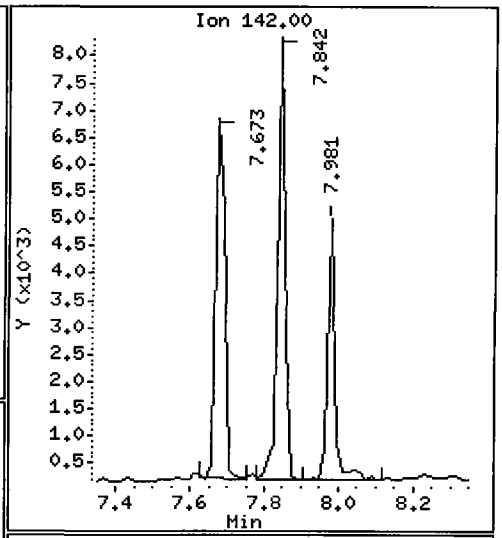
Column phase: ZB-5

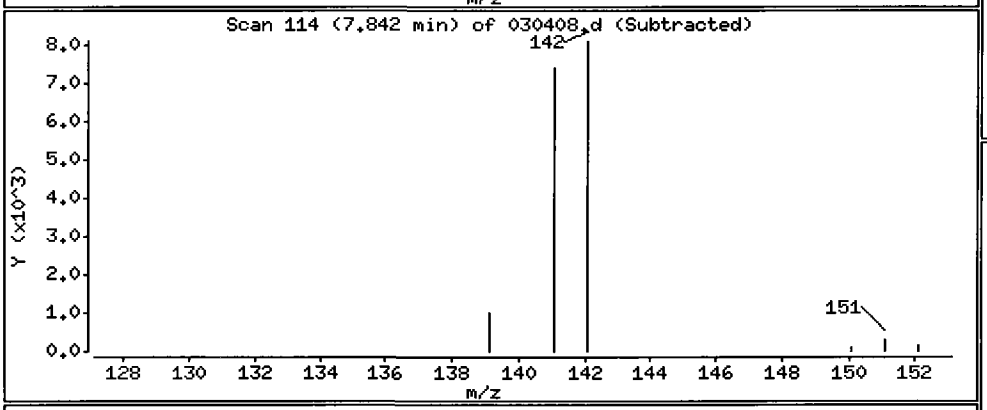
Column diameter: 0.25

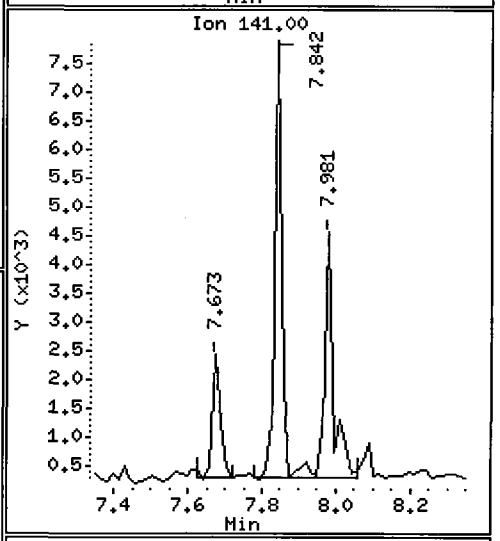
7 2-Methylnaphthalene

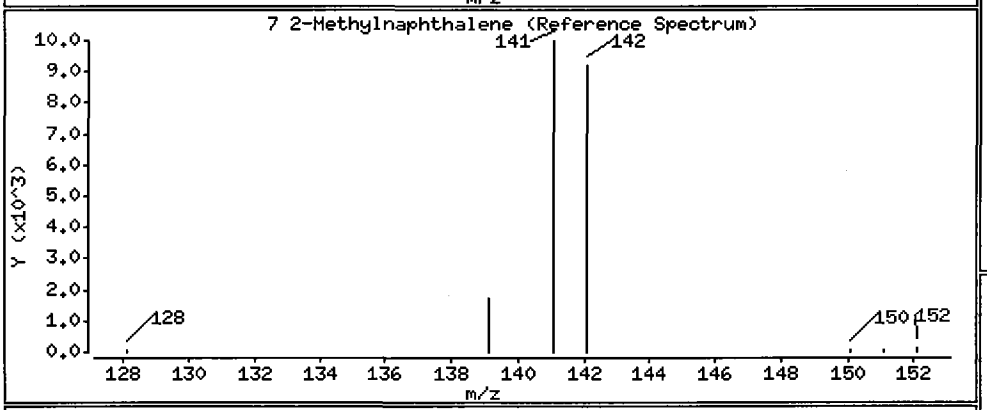
Concentration: 15.6 ug/L

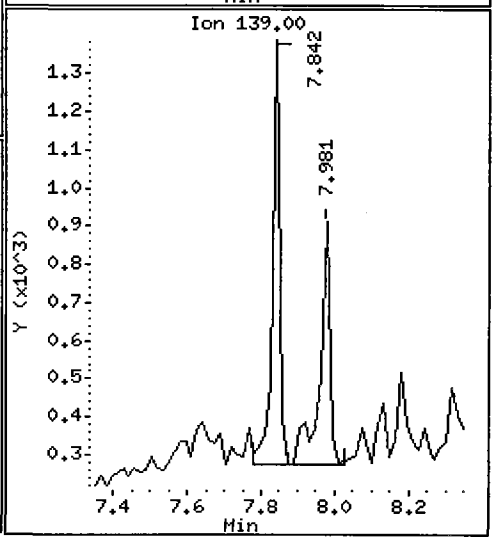


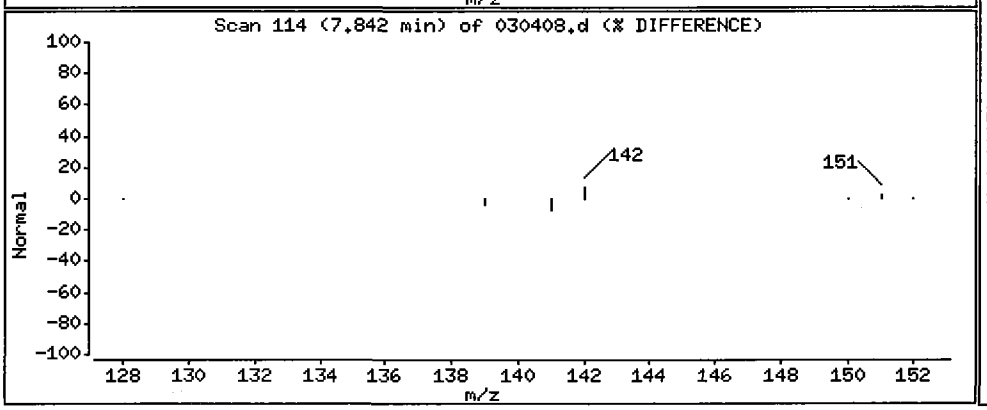












Data File: /chem3/nt2.i/20100304.b/030408.d

Date : 04-MAR-2010 14:52

Client ID: CB31A022410Comp

Instrument: nt2.i

Sample Info: QL58A

Volume Injected (uL): 2.0

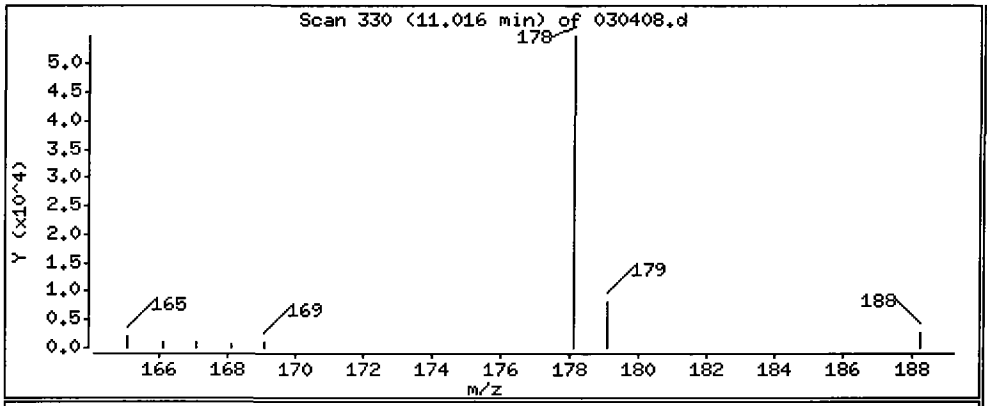
Operator: VTS

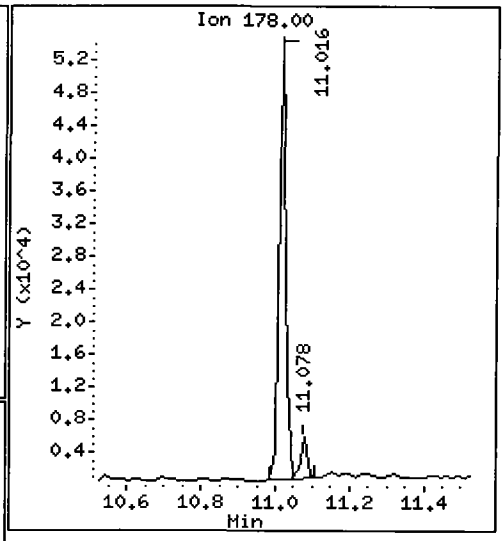
Column phase: ZB-5

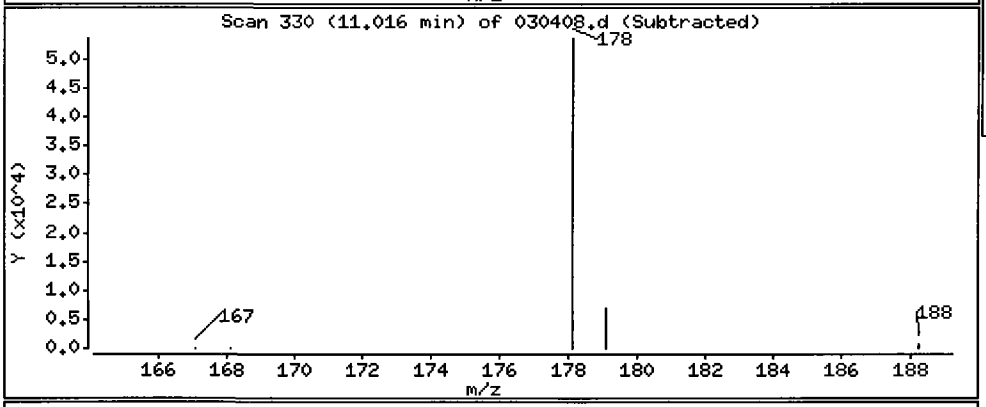
Column diameter: 0.25

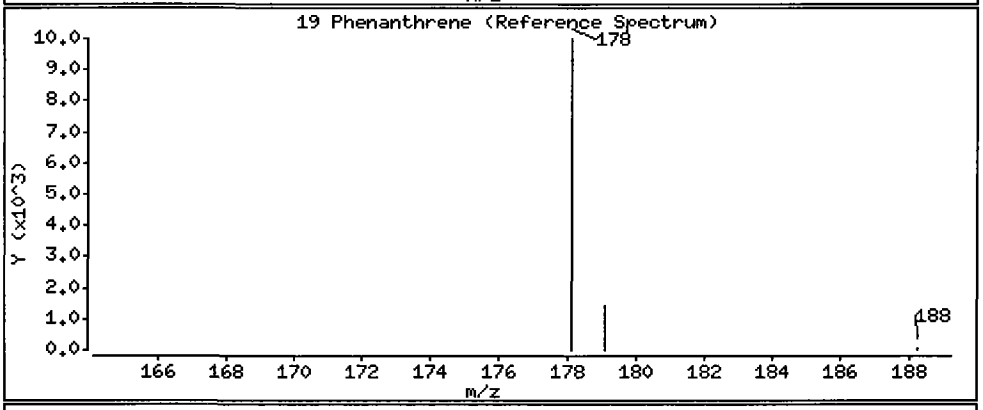
19 Phenanthrene

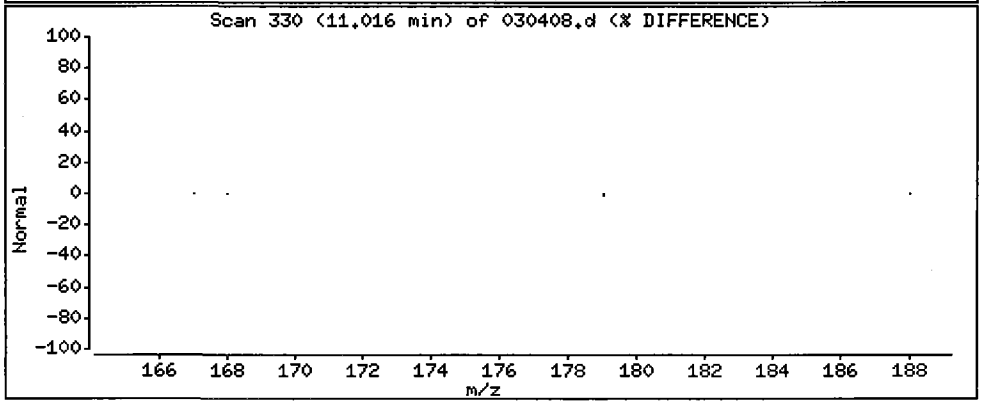
Concentration: 73.5 ug/L











Data File: /chem3/nt2.i/20100304.b/030408.d

Date : 04-MAR-2010 14:52

Client ID: CB31A022410Comp

Instrument: nt2.i

Sample Info: QL58A

Volume Injected (uL): 2.0

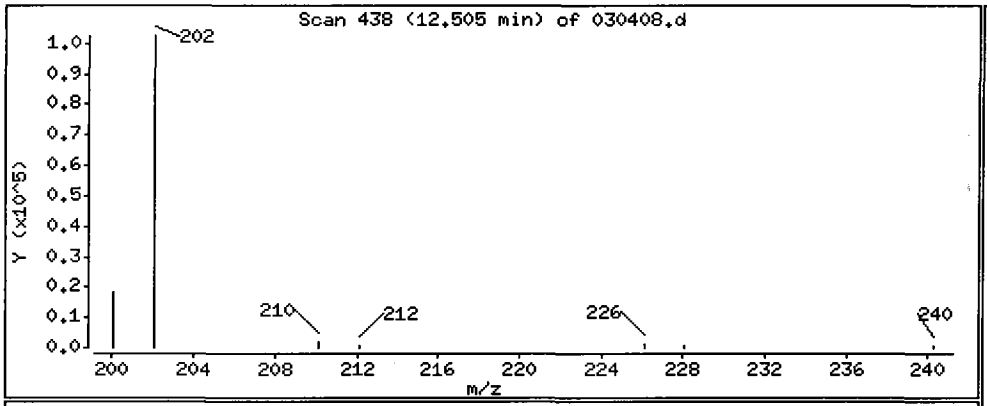
Operator: VTS

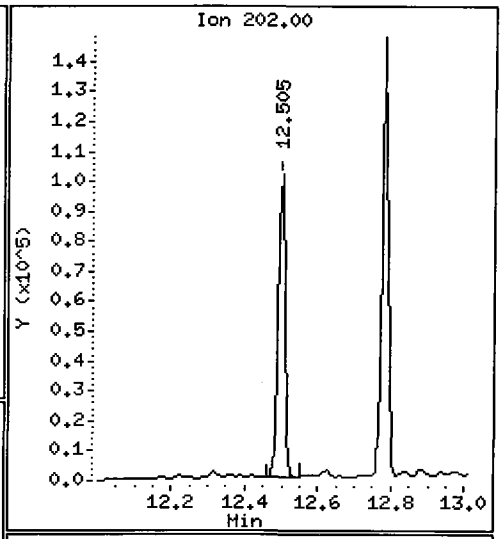
Column phase: ZB-5

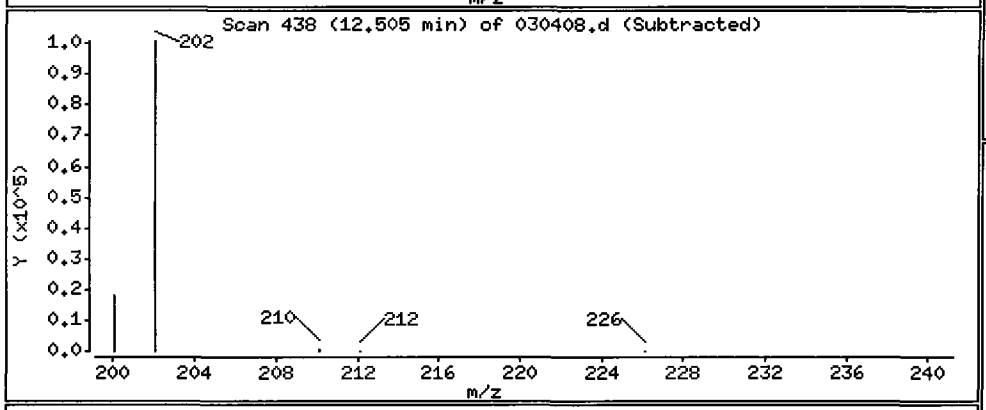
Column diameter: 0.25

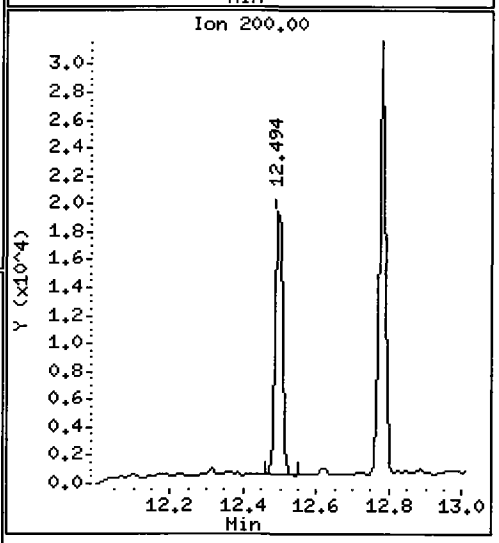
24 Fluoranthene

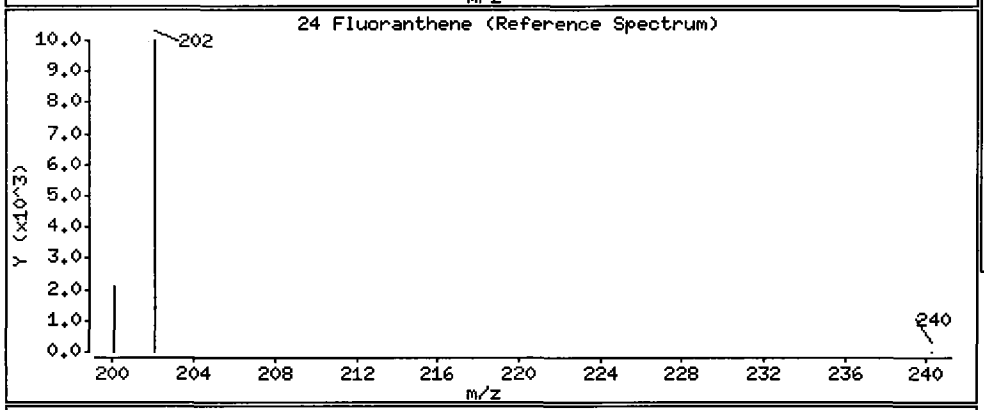
Concentration: 142 ug/L

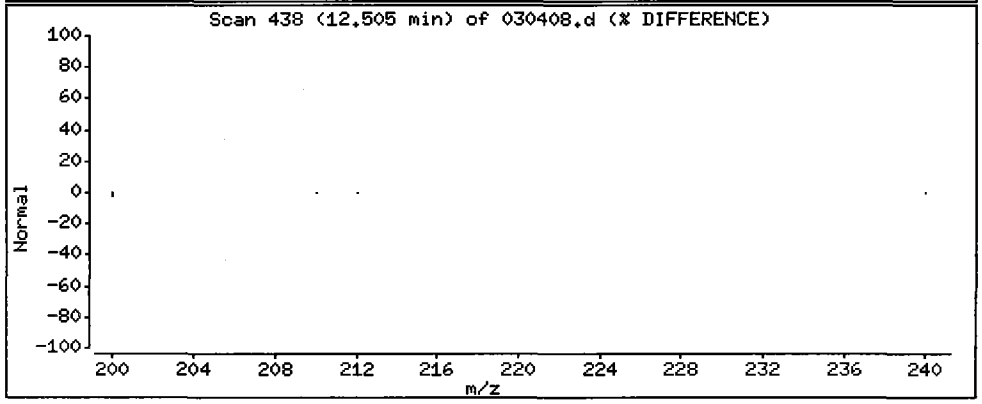












Data File: /chem3/nt2.i/20100304.b/030408.d

Date : 04-MAR-2010 14:52

Client ID: CB31A022410Comp

Instrument: nt2.i

Sample Info: QL58A

Volume Injected (uL): 2.0

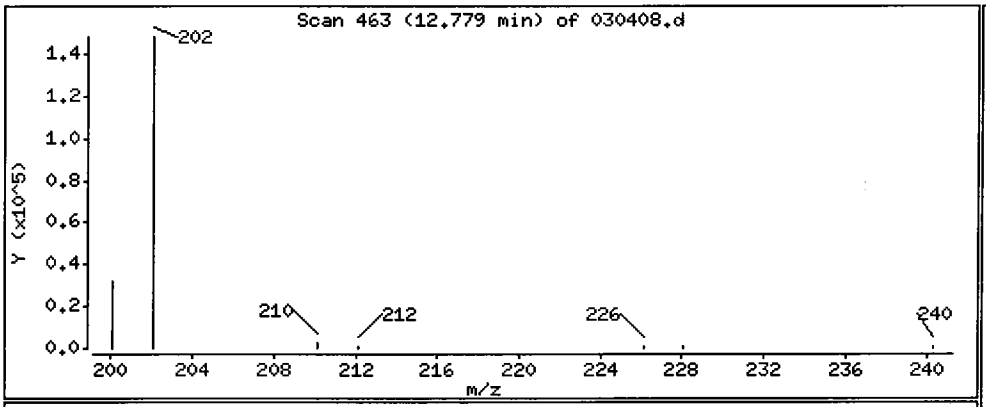
Operator: VTS

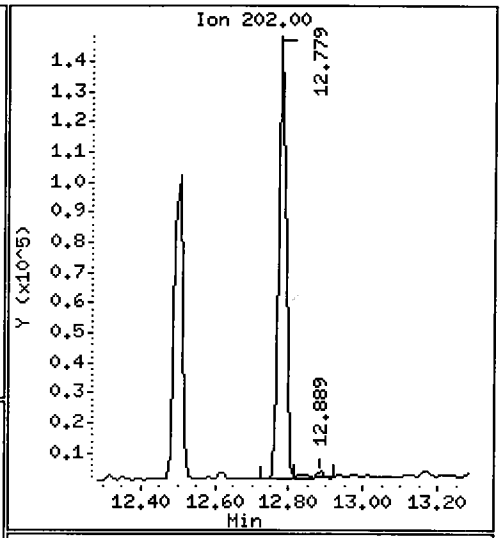
Column phase: ZB-5

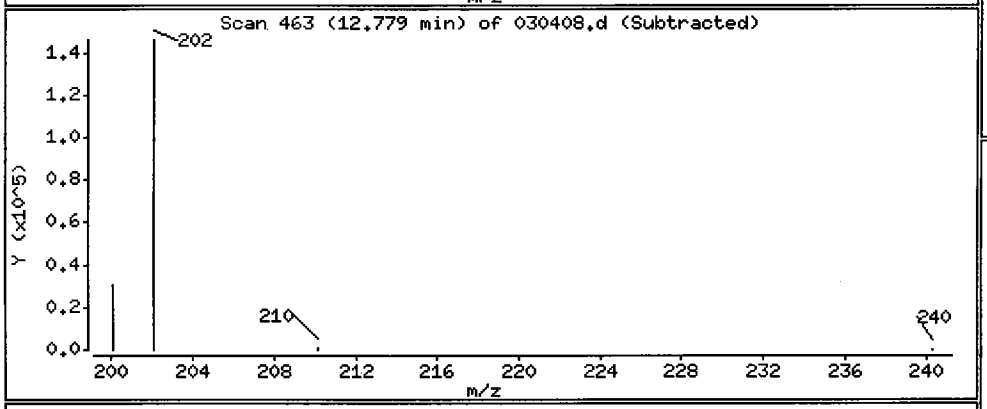
Column diameter: 0.25

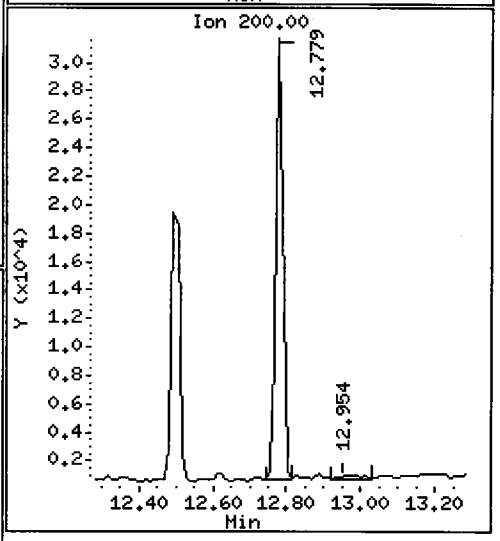
25 Pyrene

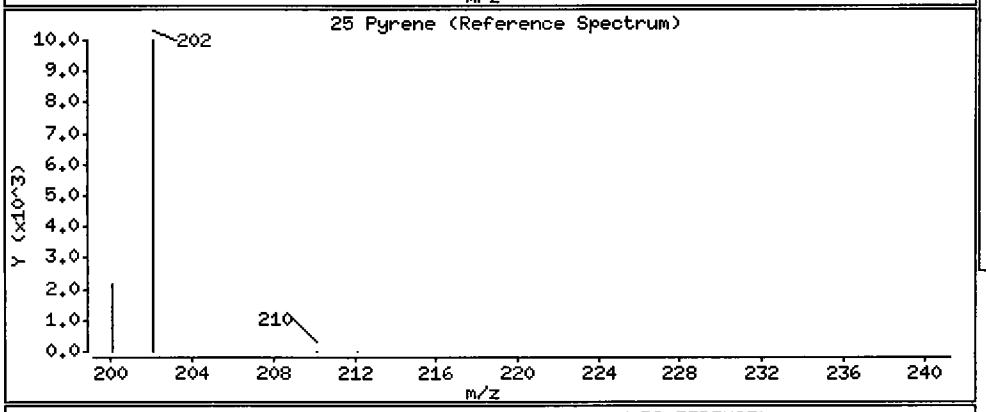
Concentration: 176 ug/L

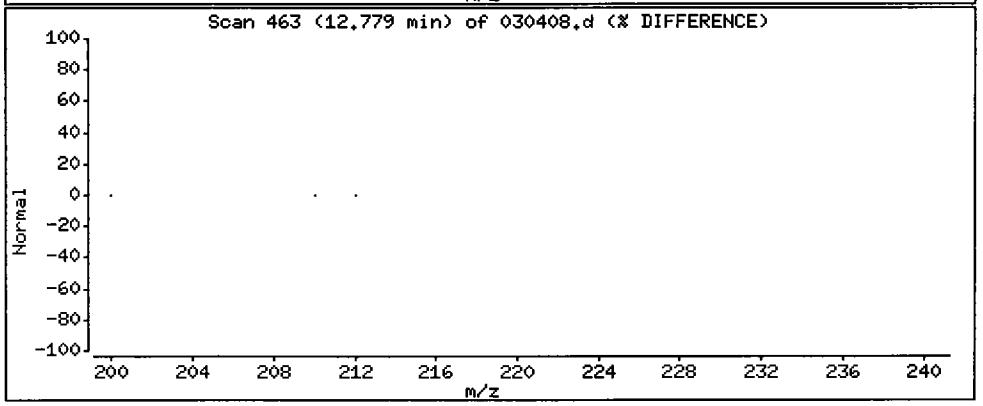












Data File: /chem3/nt2.i/20100304.b/030408.d

Date : 04-MAR-2010 14:52

Client ID: CB31A022410Comp

Instrument: nt2.i

Sample Info: QL58A

Volume Injected (uL): 2.0

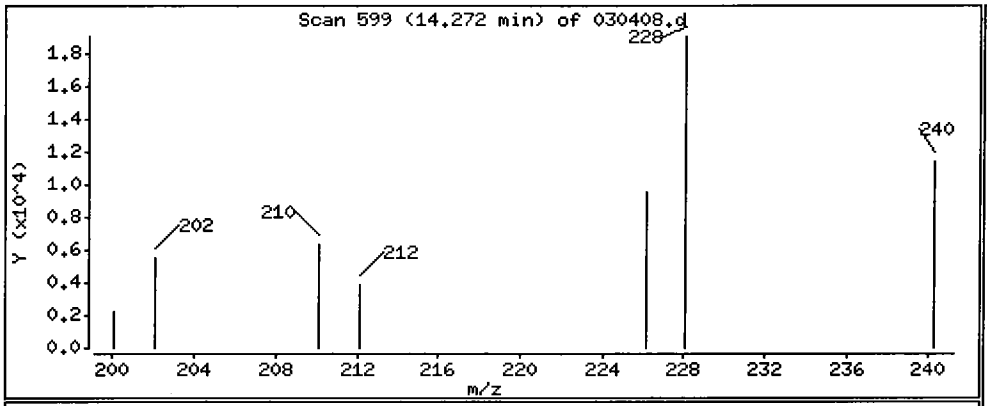
Operator: VTS

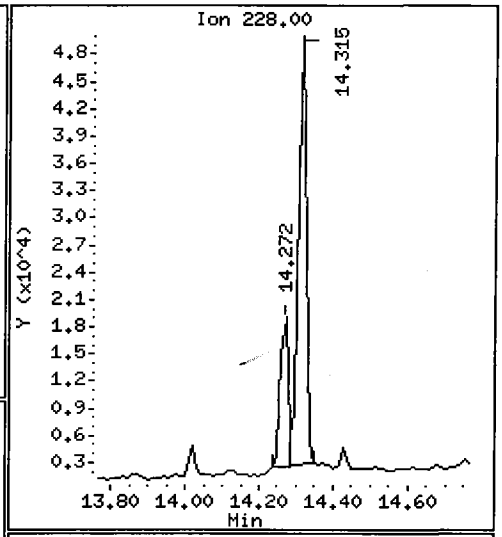
Column phase: ZB-5

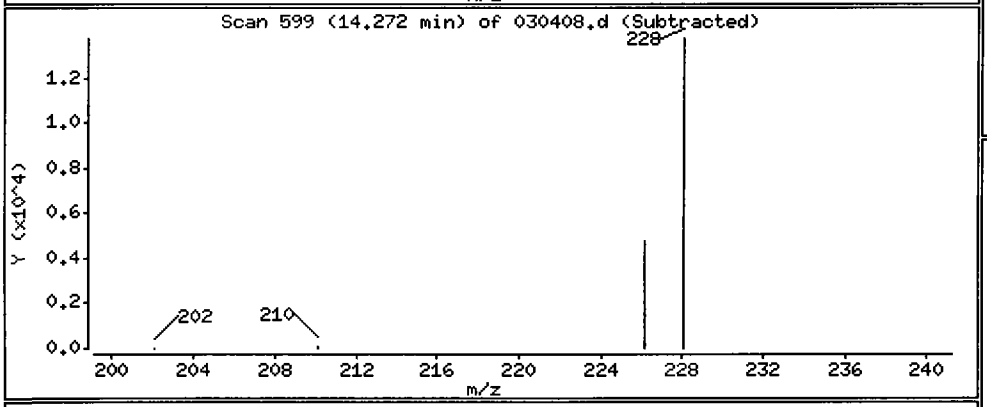
Column diameter: 0.25

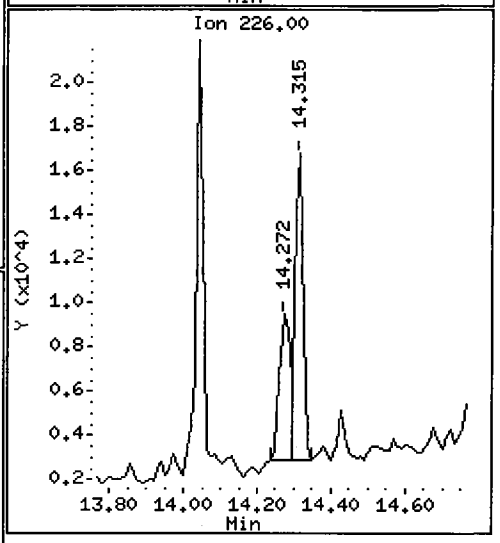
28 Benzo(a)anthracene

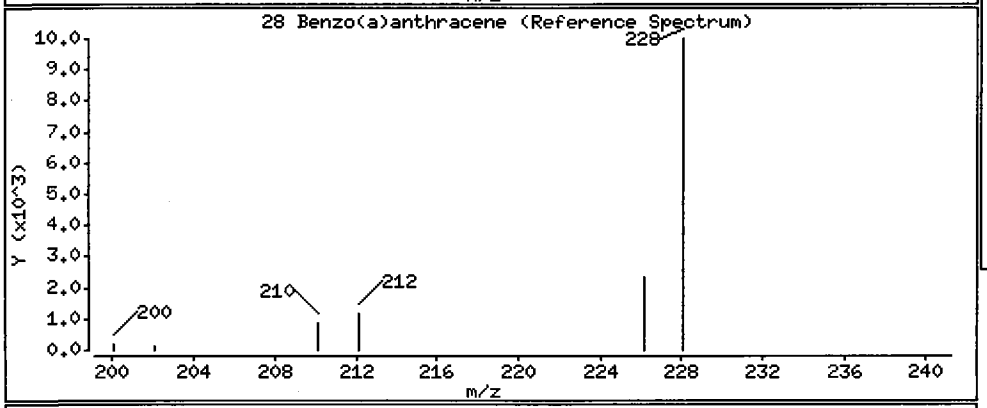
Concentration: 23.2 ug/L

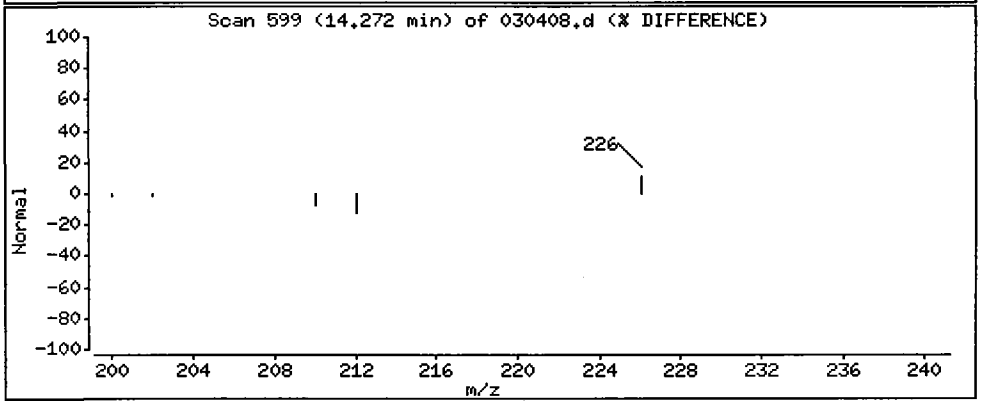












Data File: /chem3/nt2.i/20100304.b/030408.d

Date : 04-MAR-2010 14:52

Client ID: CB31A022410Comp

Instrument: nt2.i

Sample Info: QL58A

Volume Injected (uL): 2.0

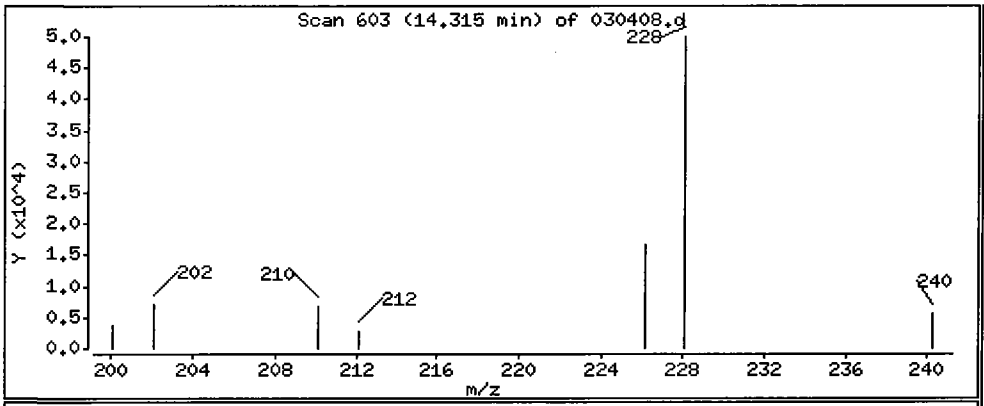
Operator: VTS

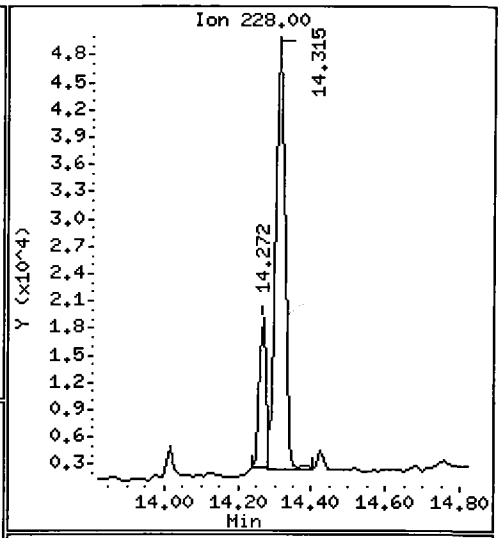
Column phase: ZB-5

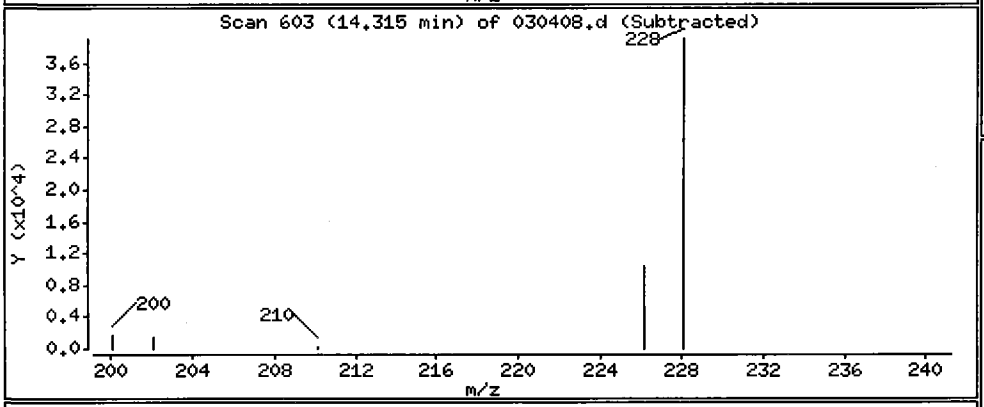
Column diameter: 0.25

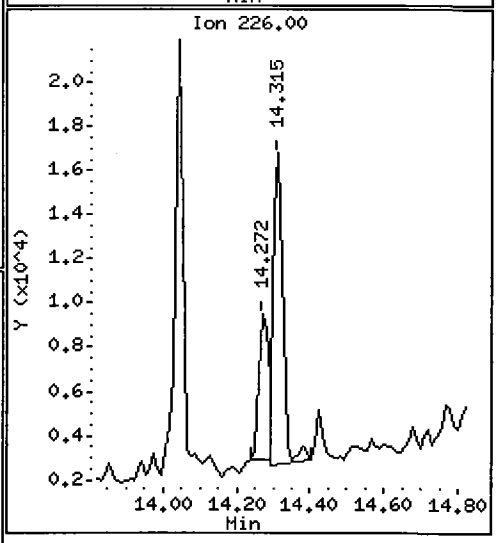
30 Chrysene

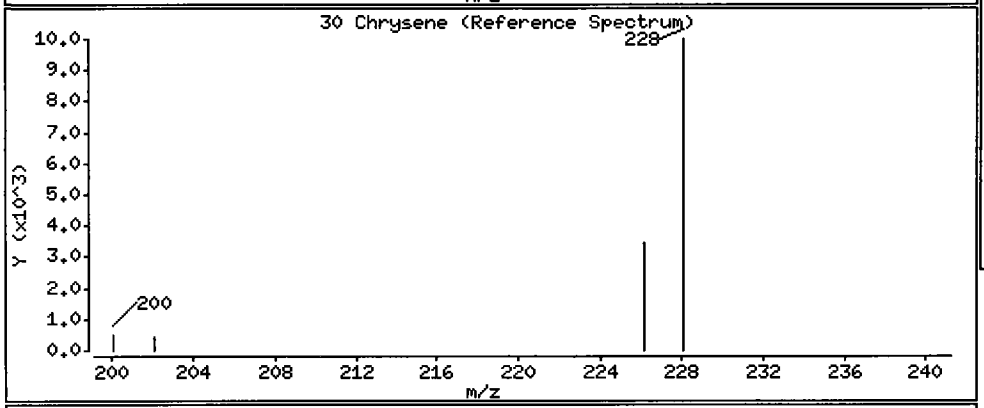
Concentration: 84.0 ug/L

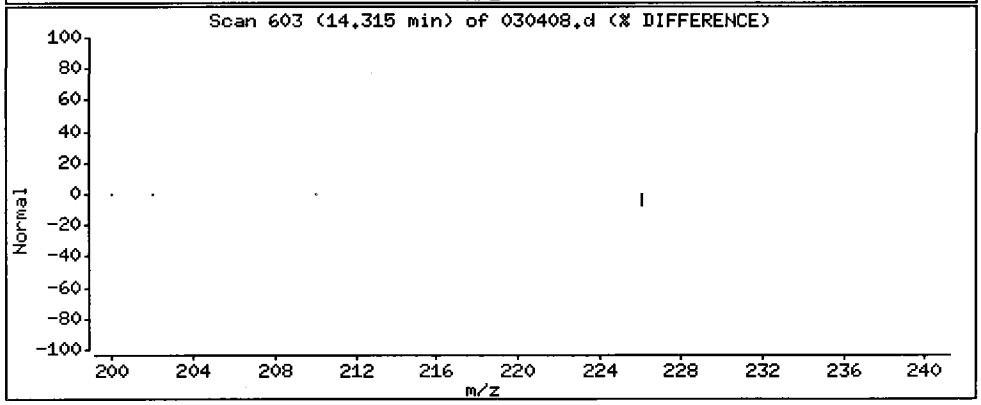












Data File: /chem3/nt2.i/20100304.b/030408.d

Date : 04-MAR-2010 14:52

Client ID: CB31A022410Comp

Instrument: nt2.i

Sample Info: QL58A

Volume Injected (uL): 2.0

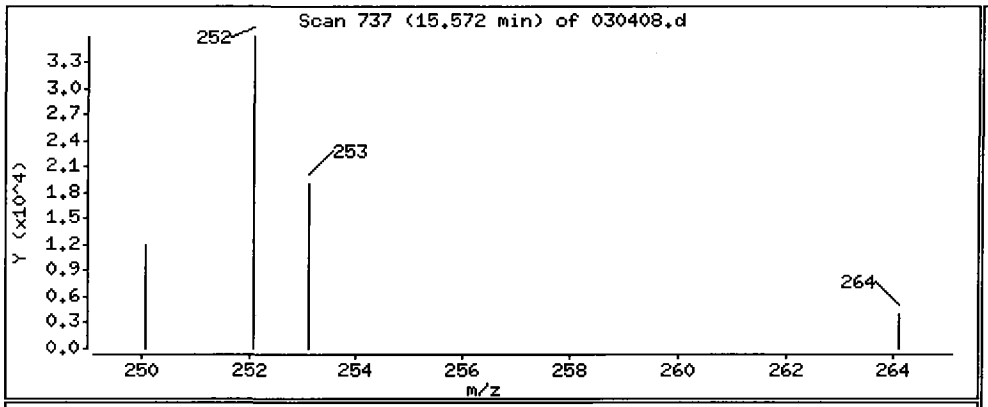
Operator: VTS

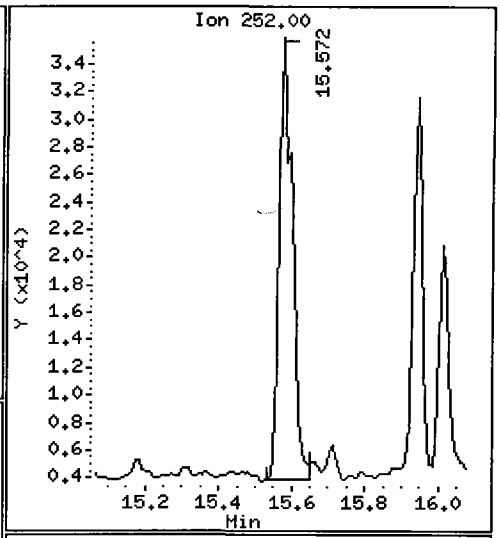
Column phase: ZB-5

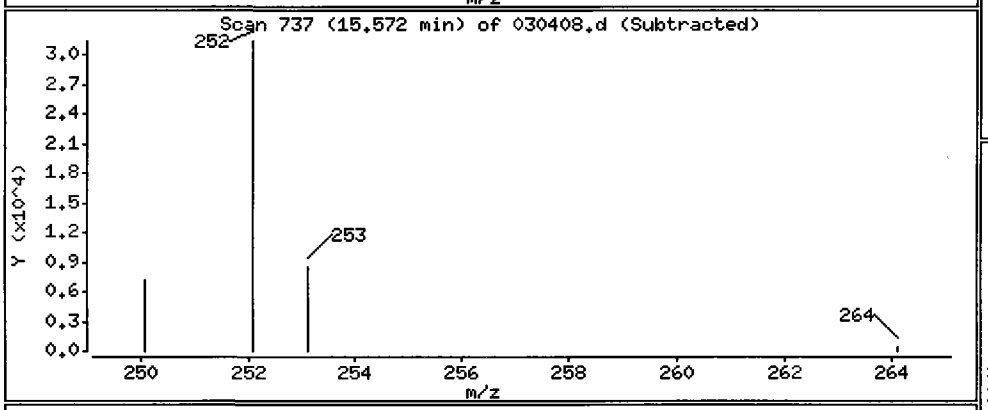
Column diameter: 0.25

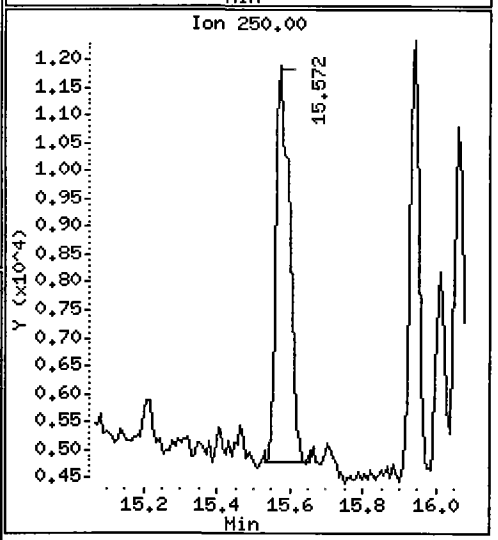
32 Benzo(b)fluoranthene

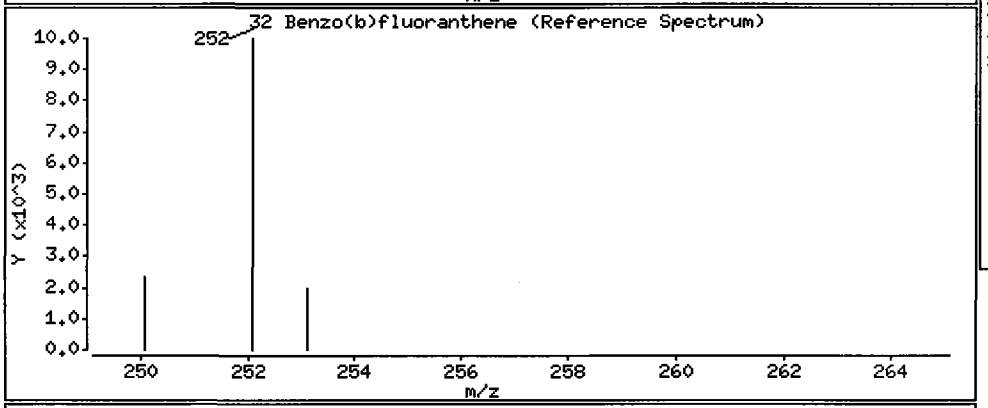
Concentration: 69.8 ug/L

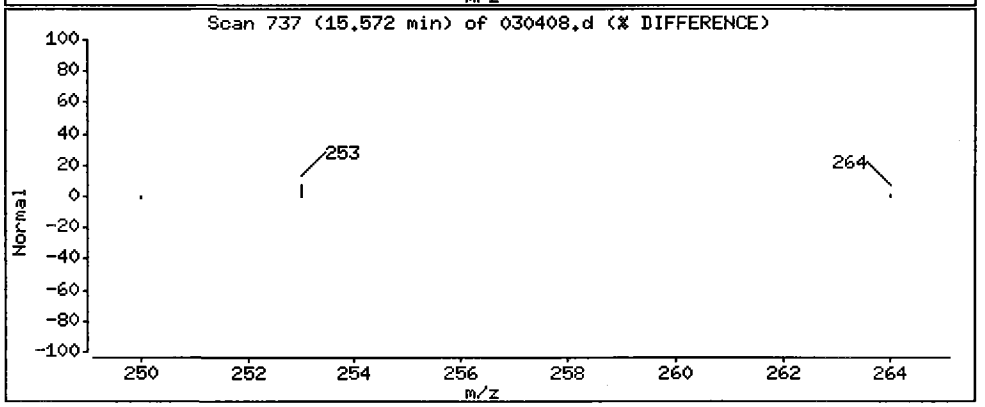












Data File: /chem3/nt2.i/20100304.b/030408.d

Date : 04-MAR-2010 14:52

Client ID: CB31A022410Comp

Instrument: nt2.i

Sample Info: QL58A

Volume Injected (uL): 2.0

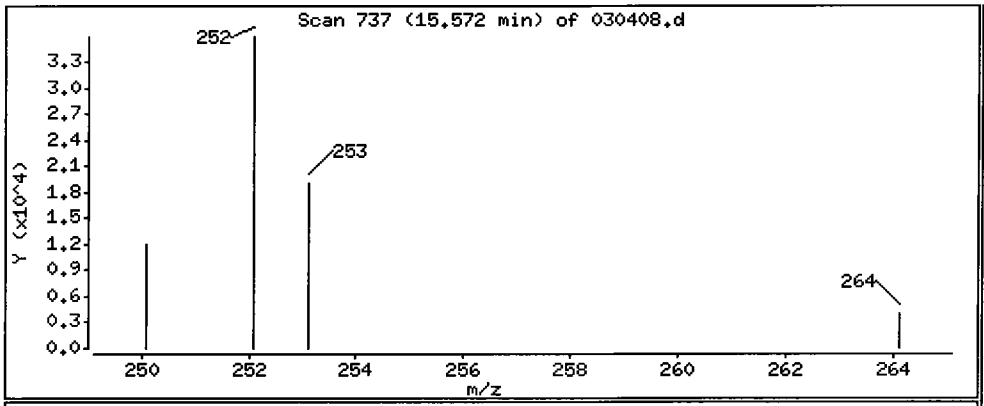
Operator: VTS

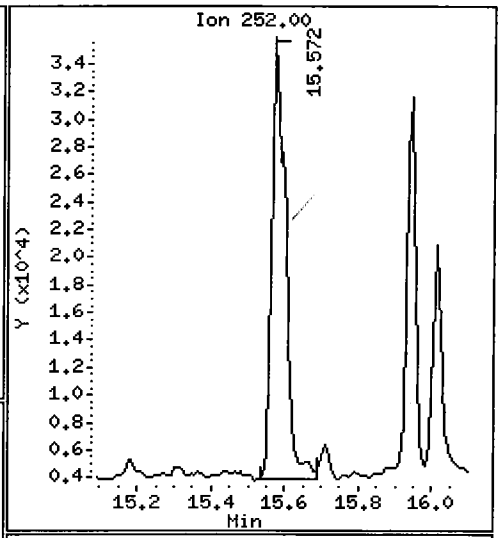
Column phase: ZB-5

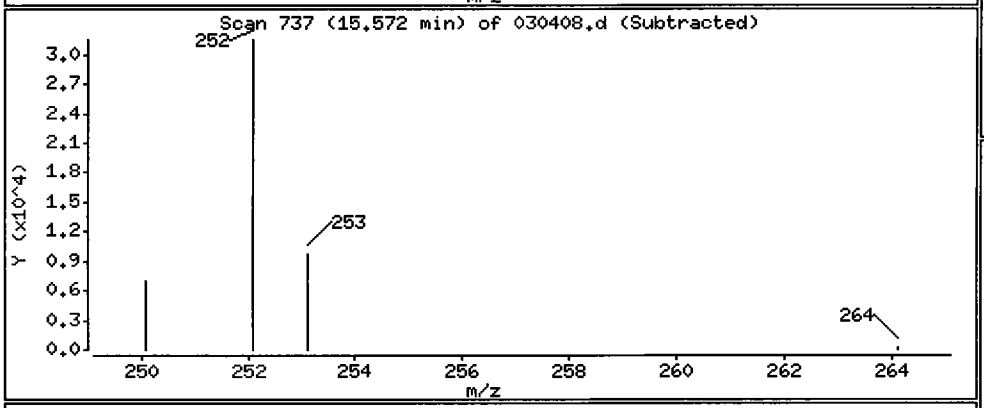
Column diameter: 0.25

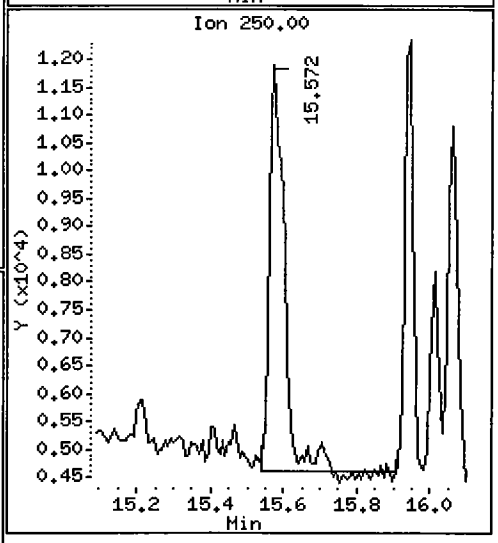
33 Benzo(k)fluoranthene

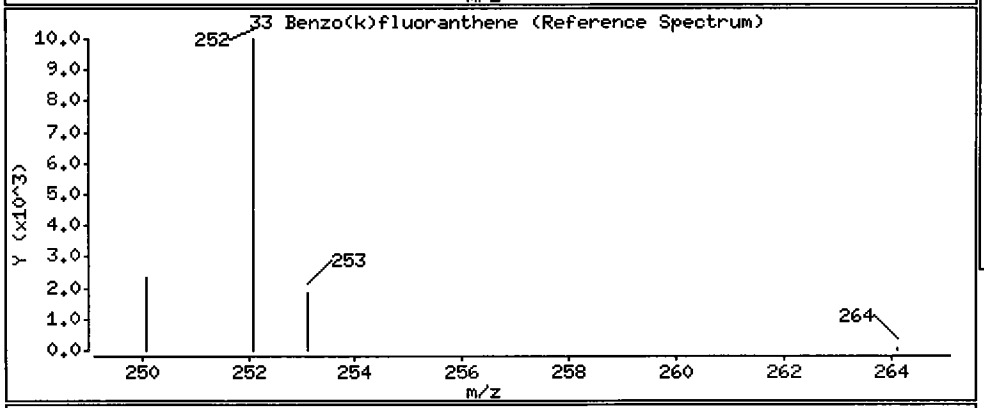
Concentration: 66.0 ug/L

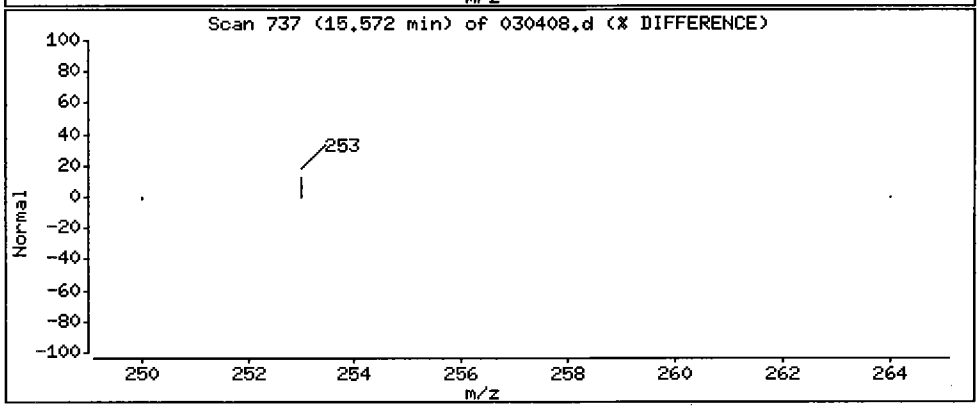












Data File: /chem3/nt2.i/20100304.b/030408.d

Date : 04-MAR-2010 14:52

Client ID: CB31A022410Comp

Instrument: nt2.i

Sample Info: QL58A

Volume Injected (uL): 2.0

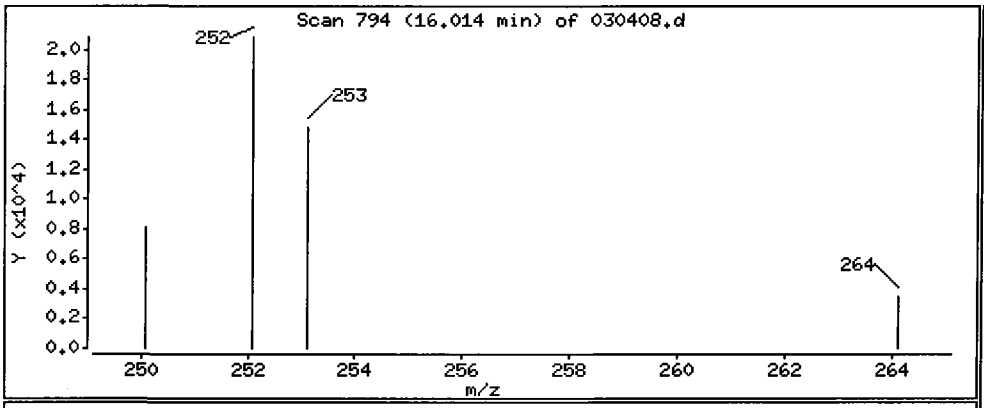
Operator: VTS

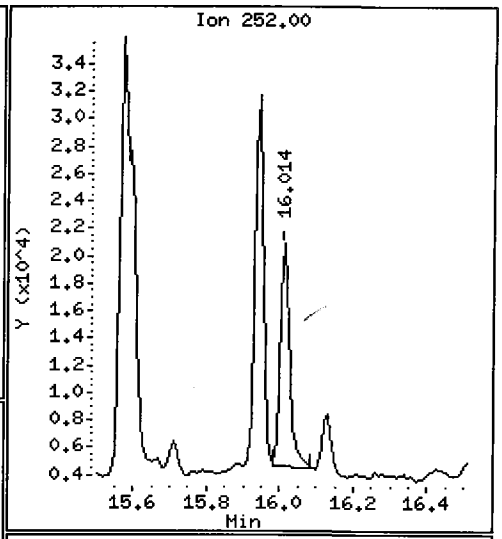
Column phase: ZB-5

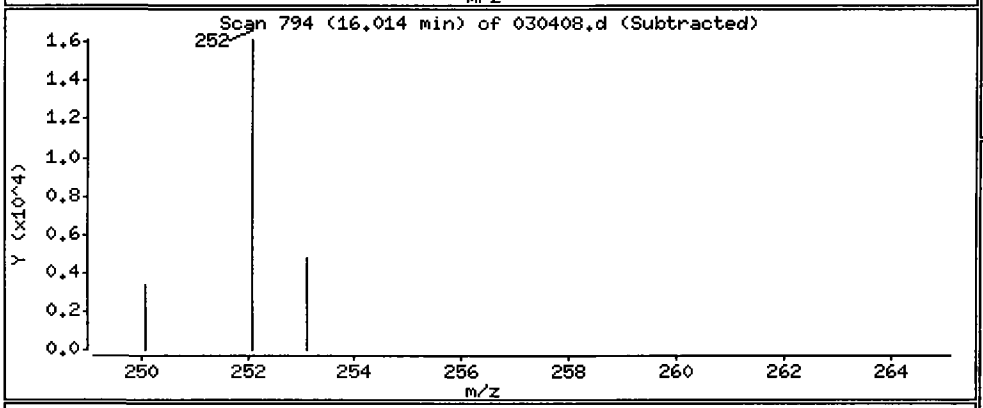
Column diameter: 0.25

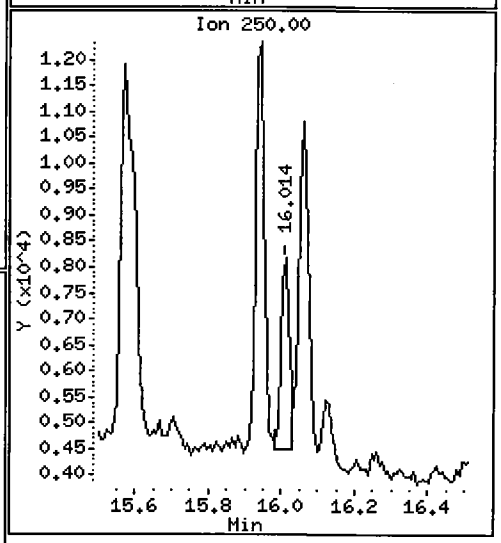
34 Benzo(a)pyrene

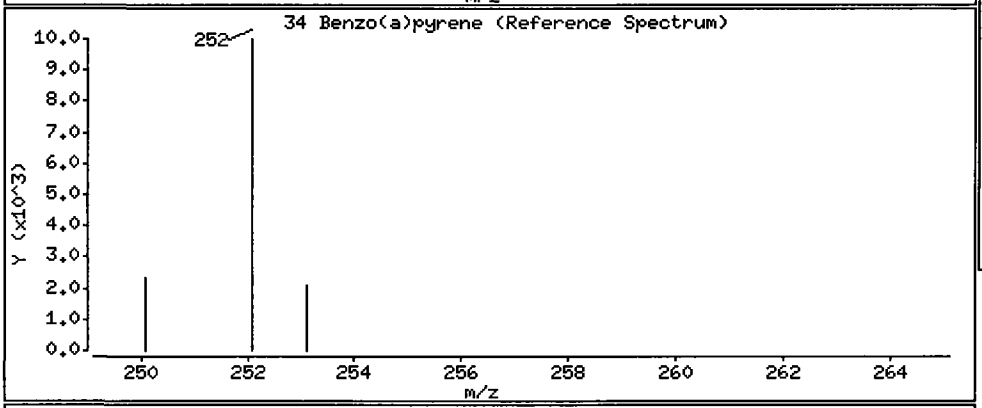
Concentration: 31.9 ug/L

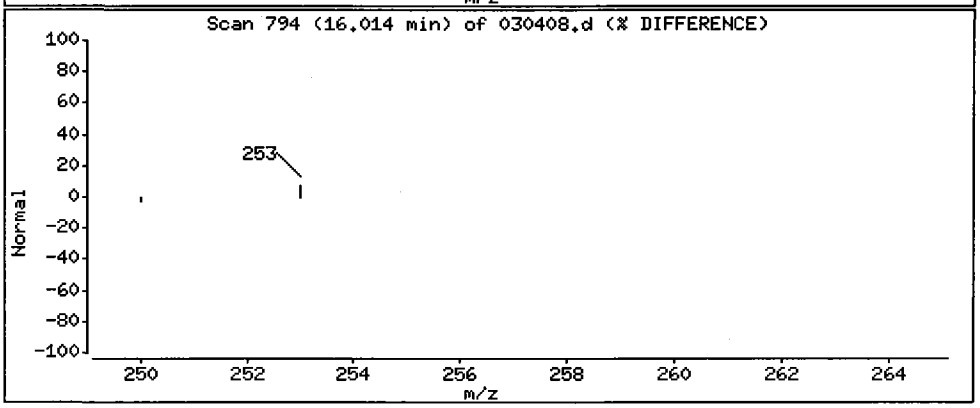












Data File: /chem3/nt2.i/20100304.b/030408.d

Date : 04-MAR-2010 14:52

Client ID: CB31A022410Comp

Instrument: nt2.i

Sample Info: QL58A

Volume Injected (uL): 2.0

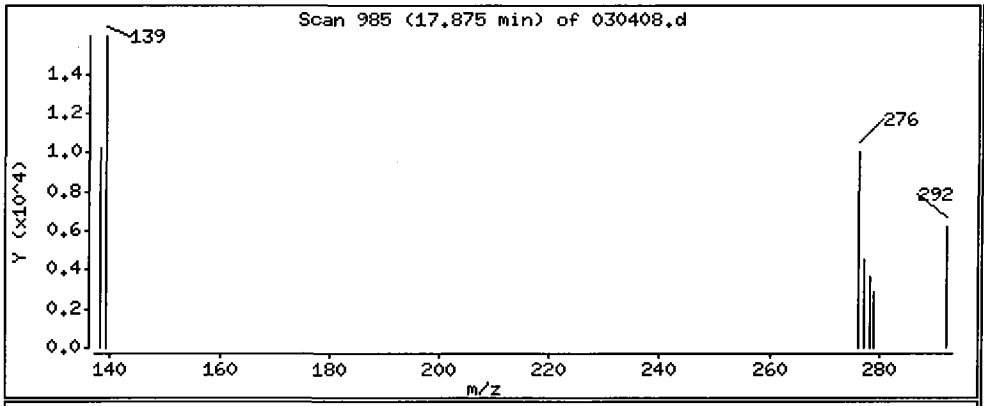
Operator: VTS

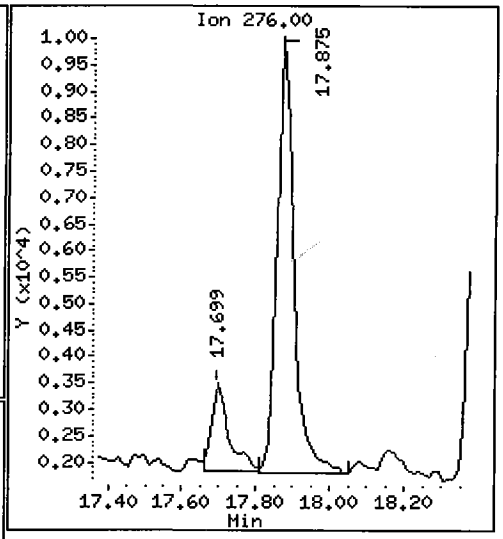
Column phase: ZB-5

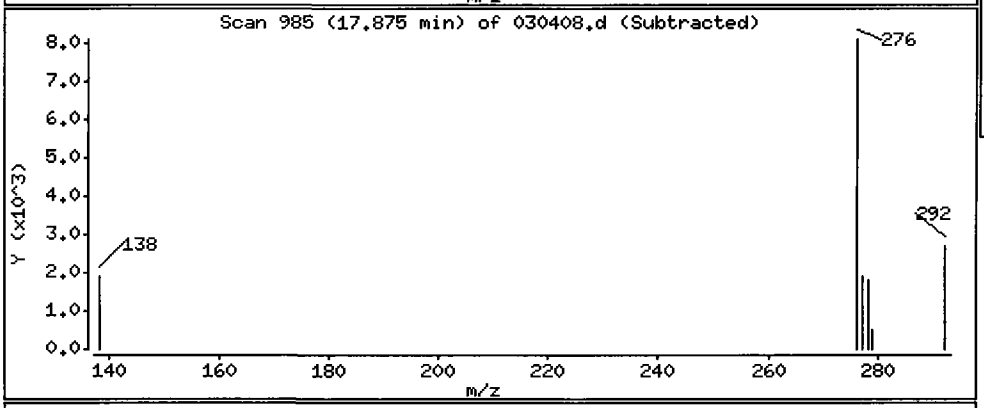
Column diameter: 0.25

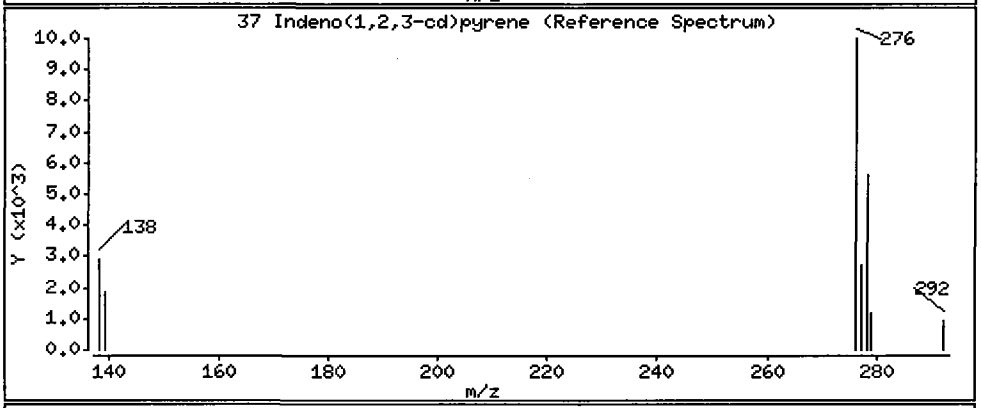
37 Indeno(1,2,3-cd)pyrene

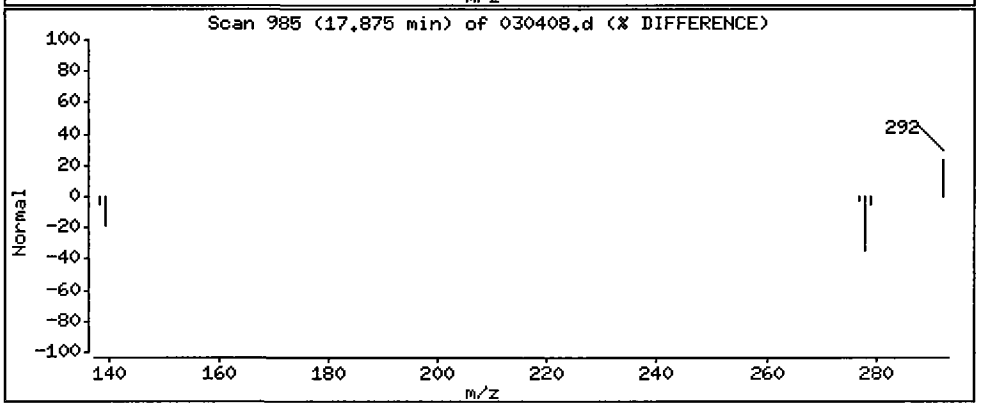
Concentration: 23.9 ug/L











Data File: /chem3/nt2.i/20100304.b/030408.d

Date : 04-MAR-2010 14:52

Client ID: CB31A022410Comp

Instrument: nt2.i

Sample Info: QL58A

Volume Injected (uL): 2.0

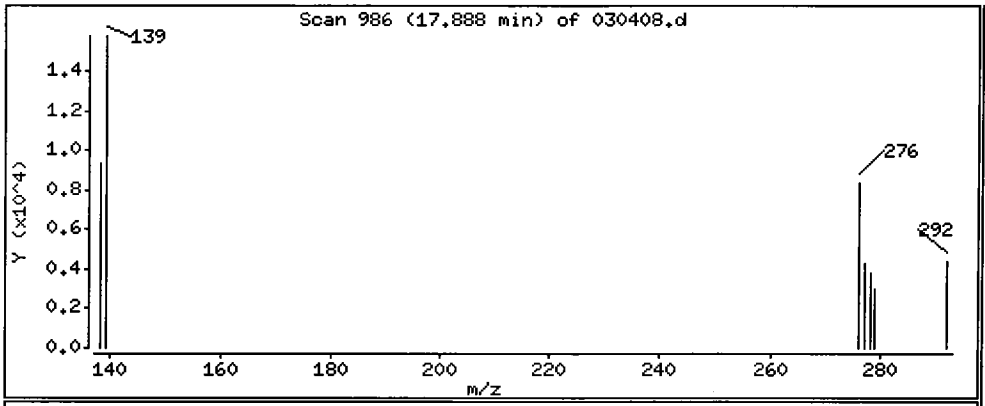
Operator: VTS

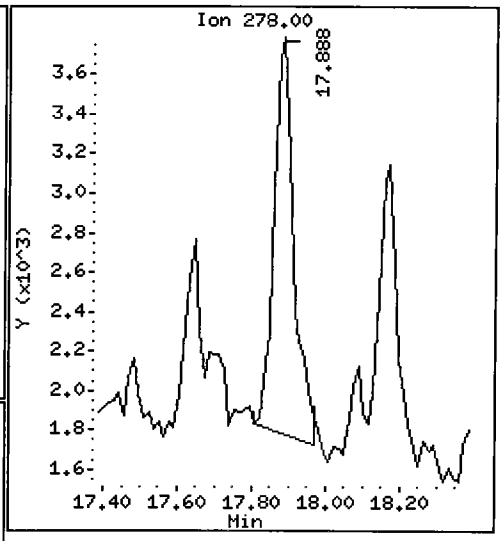
Column phase: ZB-5

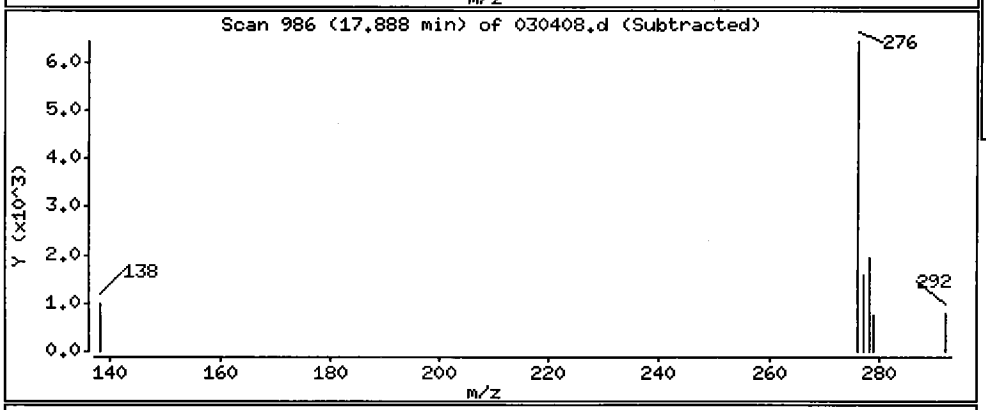
Column diameter: 0.25

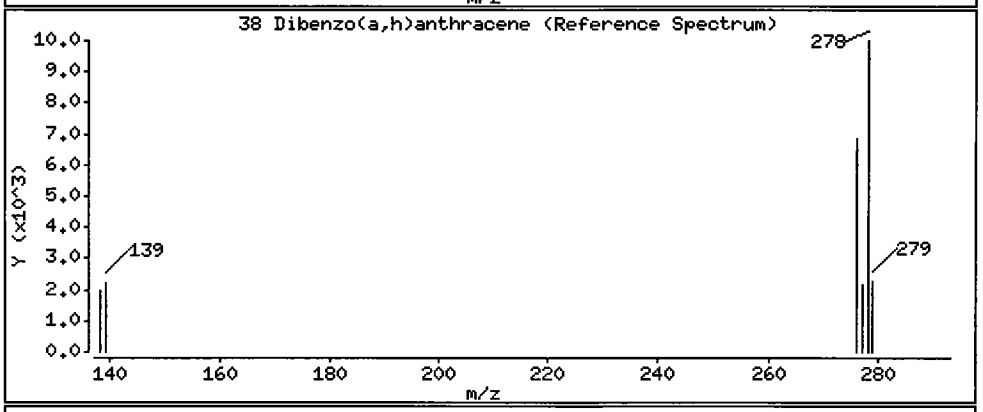
38 Dibenzo(a,h)anthracene

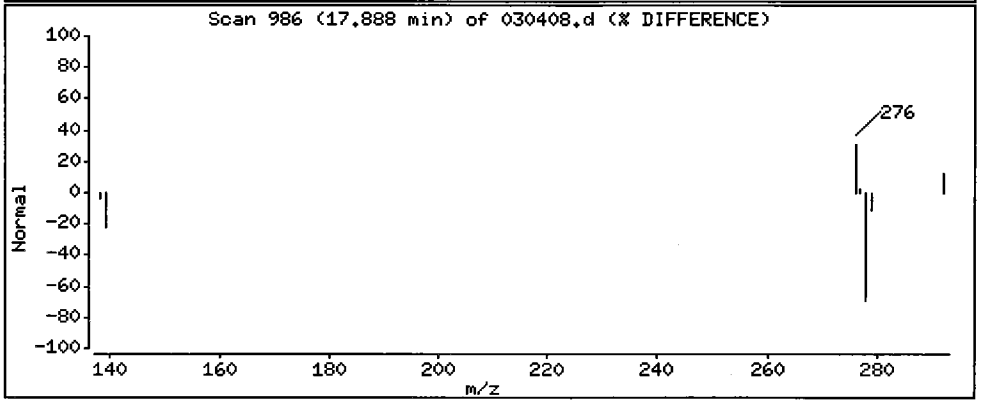
Concentration: 8.91 ug/L











Data File: /chem3/nt2.i/20100304.b/030408.d

Date : 04-MAR-2010 14:52

Client ID: CB31A022410Comp

Instrument: nt2.i

Sample Info: QL58A

Volume Injected (uL): 2.0

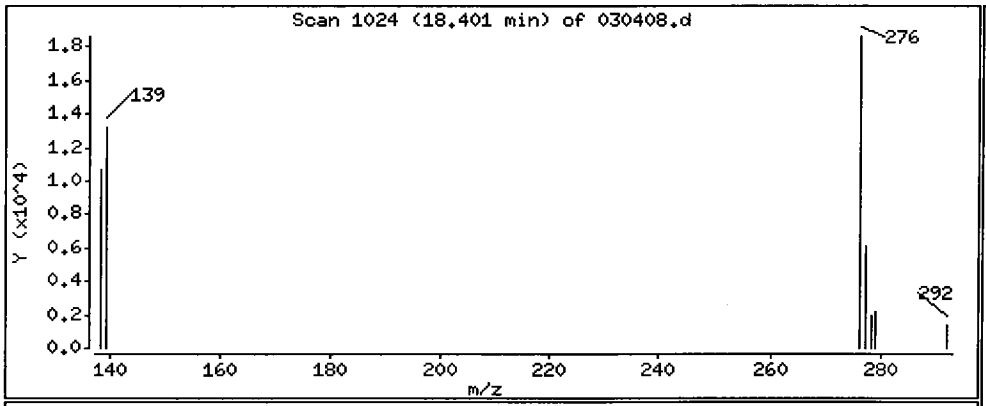
Operator: VTS

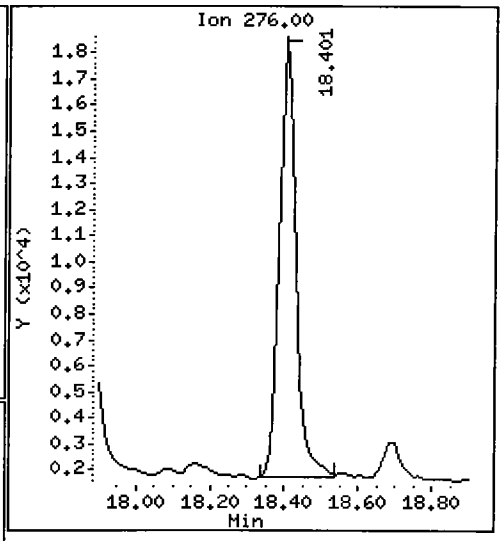
Column phase: ZB-5

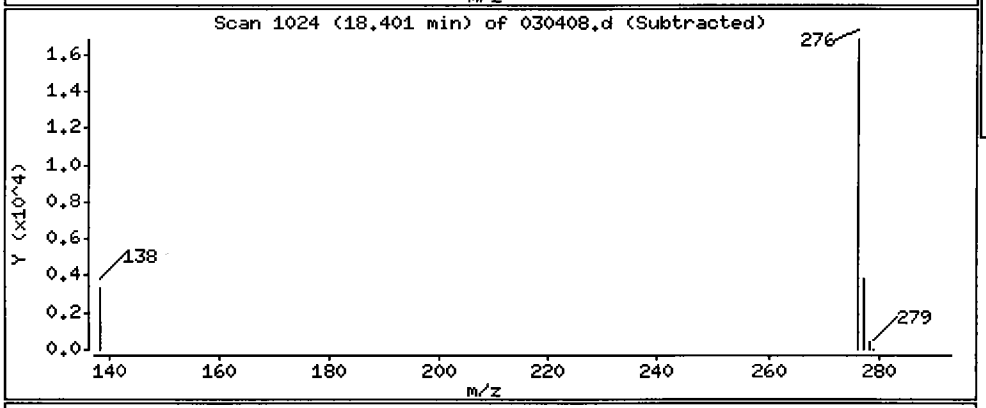
Column diameter: 0.25

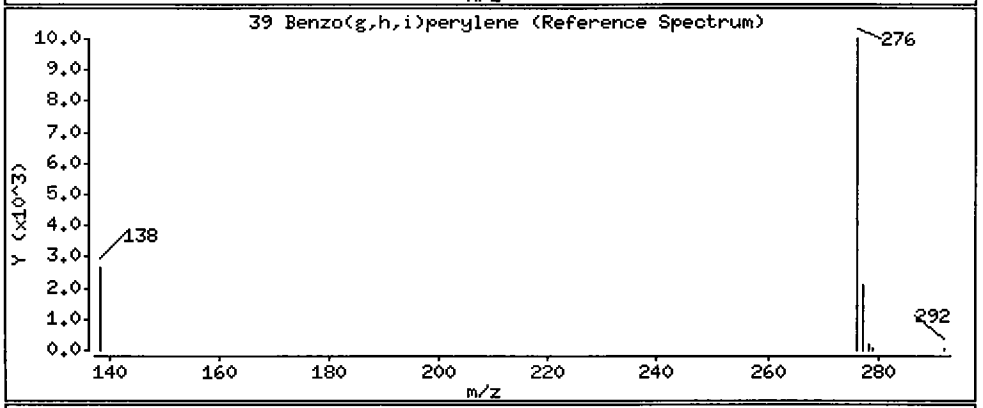
39 Benzo(g,h,i)perylene

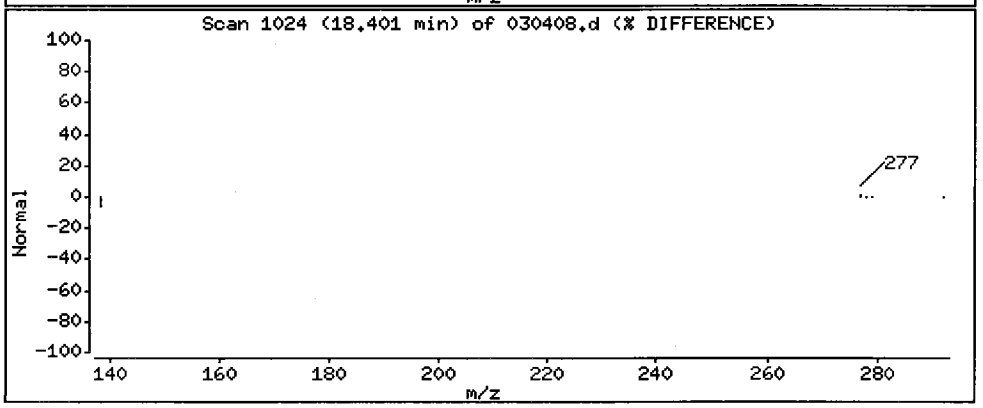
Concentration: 56.0 ug/L



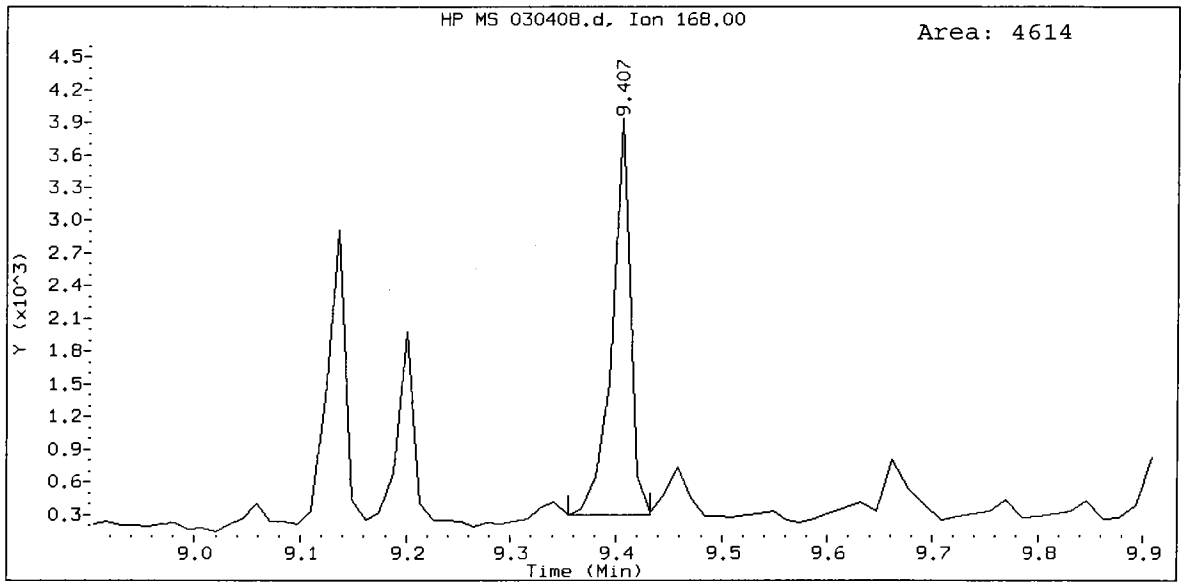




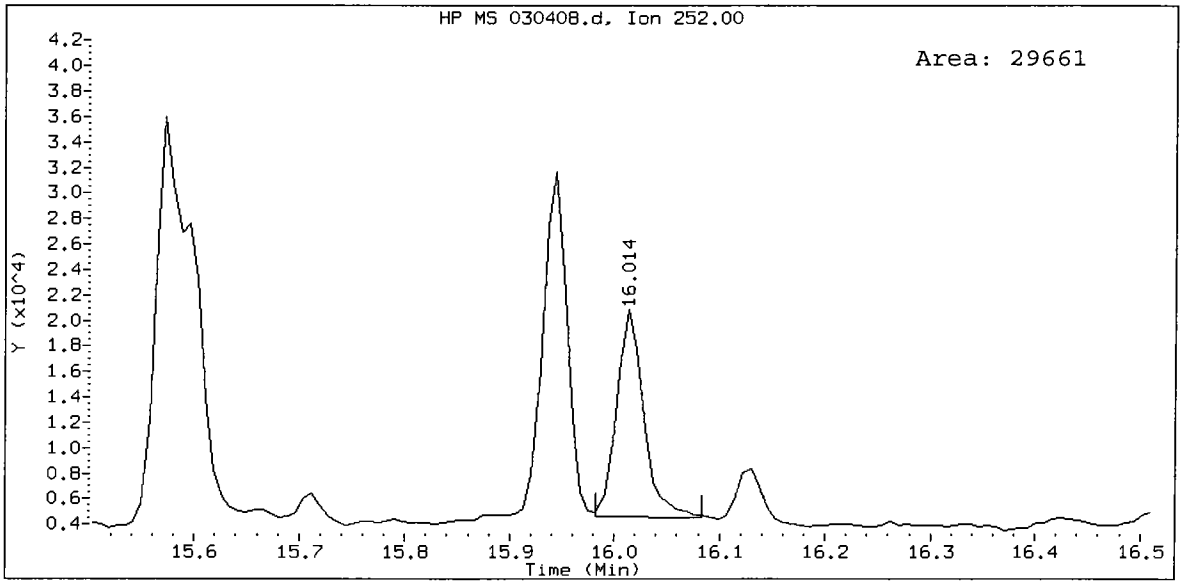


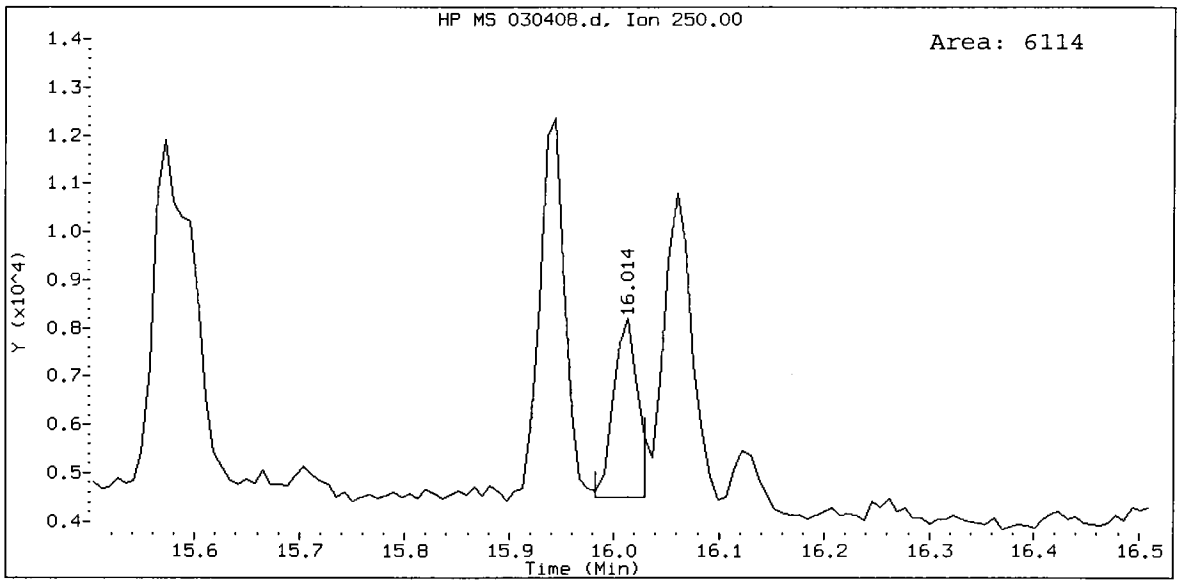


QL58A, /chem3/nt2.i/20100304.b/030408.d
Dibenzofuran Amount: 5.84

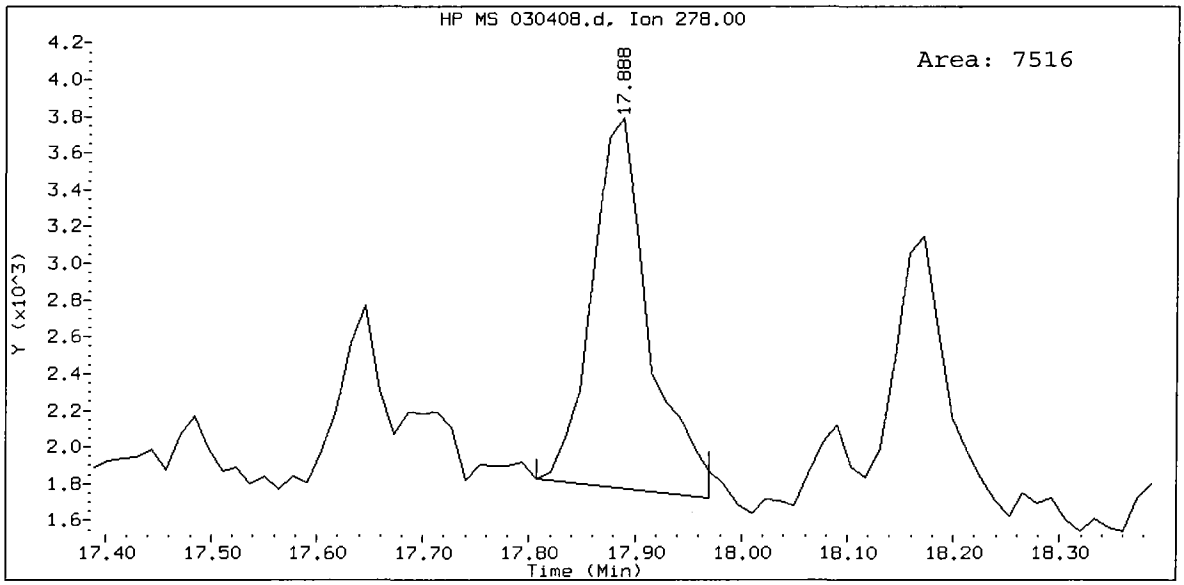


QL58A, /chem3/nt2.i/20100304.b/030408.d
Benzo(a)pyrene Amount: 31.88





QL58A, /chem3/nt2.i/20100304.b/030408.d
Dibenzo(a,h)anthracene Amount: 8.91



ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by Low Level SW8270D-SIM GC/MS
Page 1 of 1

Sample ID: CB4857022410Comp
SAMPLE

Lab Sample ID: QL58B
LIMS ID: 10-4797
Matrix: Water
Data Release Authorized:
Reported: 03/08/10

QC Report No: QL58-Floyd/Snider
Project: Lora Lake Apartments
Event: POS-LLA
Date Sampled: 02/24/10
Date Received: 02/25/10

Date Extracted: 03/01/10
Date Analyzed: 03/04/10 15:16
Instrument/Analyst: NT2/PK

Sample Amount: 500 mL
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
91-20-3	**Naphthalene**	**0.010**	**0.024**
91-57-6	**2-Methylnaphthalene**	**0.010**	**0.014**
90-12-0	1-Methylnaphthalene	0.010	< 0.010 U
208-96-8	Acenaphthylene	0.010	< 0.010 U
83-32-9	Acenaphthene	0.010	< 0.010 U
86-73-7	Fluorene	0.010	< 0.010 U
85-01-8	**Phenanthrene**	**0.010**	**0.068**
120-12-7	Anthracene	0.010	< 0.010 U
206-44-0	**Fluoranthene**	**0.010**	**0.13**
129-00-0	**Pyrene**	**0.010**	**0.16**
56-55-3	**Benzo(a)anthracene**	**0.010**	**0.021**
218-01-9	**Chrysene**	**0.010**	**0.078**
205-99-2	**Benzo(b)fluoranthene**	**0.010**	**0.033**
207-08-9	**Benzo(k)fluoranthene**	**0.010**	**0.033**
50-32-8	**Benzo(a)pyrene**	**0.010**	**0.030**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.010**	**0.022**
53-70-3	Dibenz(a,h)anthracene	0.010	< 0.010 U
191-24-2	**Benzo(g,h,i)perylene**	**0.010**	**0.053**
132-64-9	Dibenzofuran	0.010	< 0.010 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	67.7%
d14-Dibenzo(a,h)anthracene	63.7%

Analytical Resources, Inc.

LOW LEVEL PNAs BY SW8270D-SIM

Data file : /chem3/nt2.i/20100304.b/030409.d
Lab Smp Id: QL58B Client Smp ID: CB4857022410Comp
Inj Date : 04-MAR-2010 15:16
Operator : VTS Inst ID: nt2.i
Smp Info : QL58B
Misc Info : 10-4797
Comment :
Method : /chem3/nt2.i/20100304.b/lowsim.m
Meth Date : 05-Mar-2010 11:18 peter Quant Type: ISTD
Cal Date : 21-OCT-2009 13:30 Cal File: ic102106.d
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pna1mn.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Vt / Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Final Extract Volume (uL)
Vo	500.00000	Sample Volume extracted (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/mL)	CONCENTRATIONS FINAL (ug/L)
*	4 Naphthalene-d8	136	6.966	6.967	(1.000)	247888	200.000	
	5 Naphthalene	128	6.981	6.982	(1.002)	28548	23.9164	23.9
$	6 2-Methylnaphthalene-d10	152	7.812	7.813	(1.121)	129435	202.726	203
	7 2-Methylnaphthalene	142	7.843	7.844	(1.126)	9827	14.1172	14.1(M)
	8 1-Methylnaphthalene	142	7.981	7.982	(1.146)	6048	8.34773	8.35
	10 Acenaphthylene	152	8.969	8.969	(0.979)	4993	5.21060	5.21(M)
*	11 Acenaphthene-d10	164	9.162	9.162	(1.000)	121086	200.000	
	12 Acenaphthene	153	Compound Not Detected.					
	14 Dibenzofuran	168	9.407	9.407	(1.027)	4549	5.87208	5.87(M)
	15 Fluorene	166	9.816	9.817	(1.071)	4438	6.92991	6.93(M)
*	18 Phenanthrene-d10	188	11.001	11.002	(1.000)	176296	200.000	
	19 Phenanthrene	178	11.016	11.017	(1.001)	59434	67.8265	67.8
	20 Anthracene	178	11.078	11.078	(1.007)	5328	5.95035	5.95
	24 Fluoranthene	202	12.505	12.505	(1.137)	123385	129.279	129
	25 Pyrene	202	12.779	12.780	(1.162)	151875	156.764	157

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/mL)	FINAL (ug/L)
	28 Benzo(a)anthracene	228	14.272	14.261	(0.998)	20225	21.0922	21.1
*	29 Chrysene-d12	240	14.294	14.283	(1.000)	192121	200.000	
	30 Chrysene	228	14.316	14.316	(1.002)	74007	78.2269	78.2
	32 Benzo(b)fluoranthene	252	15.573	15.572	(0.968)	78482	69.6149	69.6
	33 Benzo(k)fluoranthene	252	15.573	15.595	(0.968)	76372	62.3932	62.4(M)
	34 Benzo(a)pyrene	252	16.014	16.006	(0.995)	26830	30.3735	30.4(M)
*	35 Perylene-d12	264	16.092	16.091	(1.000)	196774	200.000	
	37 Indeno(1,2,3-cd)pyrene	276	17.873	17.873	(1.111)	23052	22.5199	22.5(M)
$	36 Dibenzo(a,h)anthracene-d14	292	17.832	17.820	(1.108)	113710	190.647	191
	38 Dibenzo(a,h)anthracene	278	17.886	17.887	(1.112)	6927	8.65159	8.65(M)
	39 Benzo(g,h,i)perylene	276	18.399	18.399	(1.143)	47136	53.4018	53.4

33.0

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt2.i
Lab File ID: 030409.d
Lab Smp Id: QL58B
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt2.i/20100304.b/lowsim.m
Misc Info: 10-4797

Calibration Date: 04-MAR-2010
Calibration Time: 10:53
Client Smp ID: CB4857022410Comp
Level: LOW
Sample Type: Water

Test Mode:
Use Initial Calibration Level 4.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
4 Naphthalene-d8	173109	86554	346218	247888	43.20
11 Acenaphthene-d10	96677	48338	193354	121086	25.25
18 Phenanthrene-d10	147750	73875	295500	176296	19.32
29 Chrysene-d12	135219	67610	270438	192121	42.08
35 Perylene-d12	125815	62908	251630	196774	56.40

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
4 Naphthalene-d8	6.97	6.47	7.47	6.97	-0.01
11 Acenaphthene-d10	9.16	8.66	9.66	9.16	-0.01
18 Phenanthrene-d10	11.00	10.50	11.50	11.00	-0.01
29 Chrysene-d12	14.28	13.78	14.78	14.29	0.07
35 Perylene-d12	16.09	15.59	16.59	16.09	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Floyd/Snider
Sample Matrix: LIQUID
Lab Smp Id: QL58B
Level: LOW
Data Type: MS DATA
SpikeList File: waterlcs.spk
Sublist File: pna1mn.sub
Method File: /chem3/nt2.i/20100304.b/lowsim.m
Misc Info: 10-4797

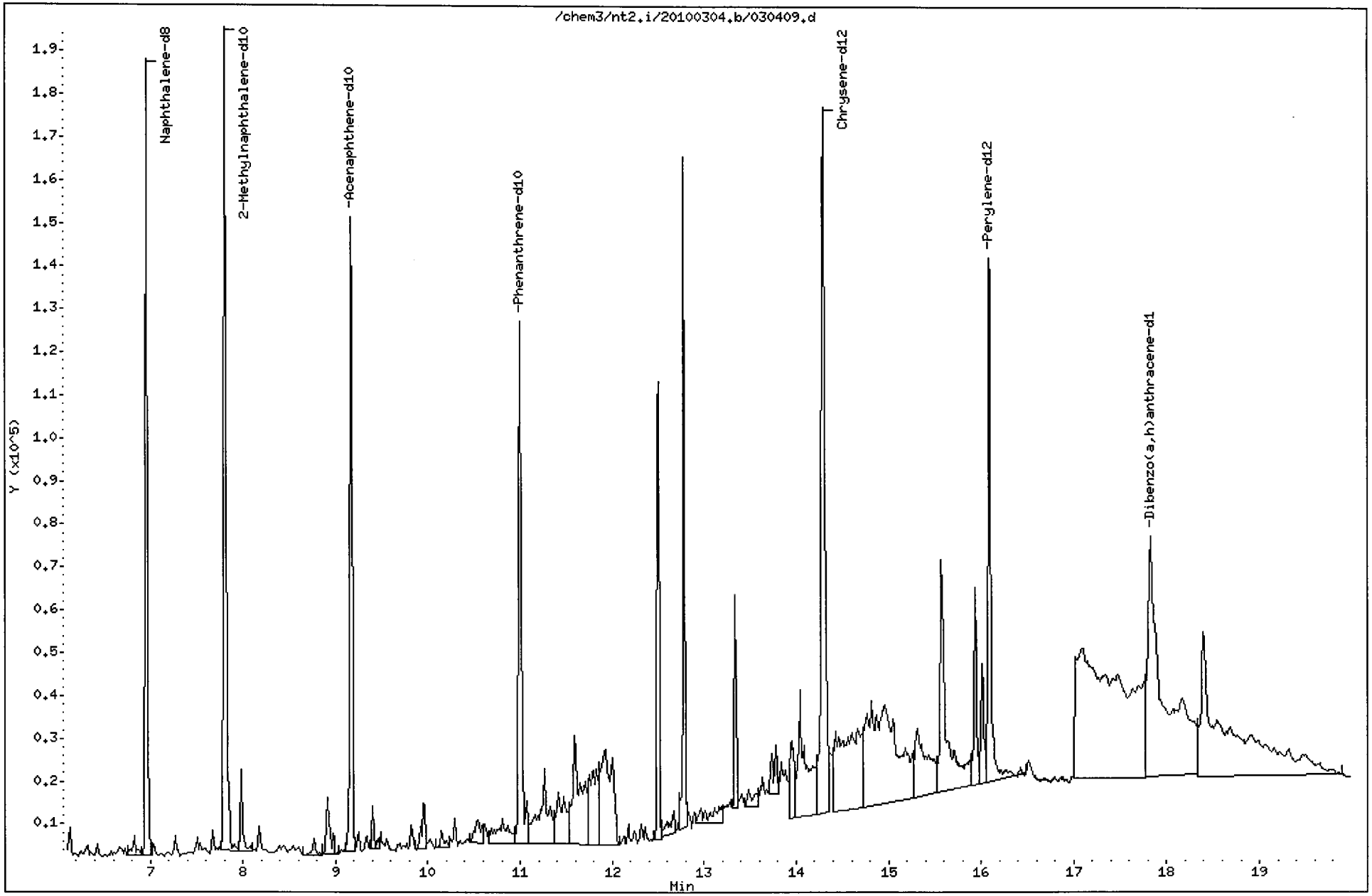
Client SDG: QL58
Fraction: SV
Client Smp ID: CB4857022410Comp
Operator: VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 6 2-Methylnaphthalen	300	203	67.58	31-109
$ 36 Dibenzo(a,h)anthra	300	191	63.55	10-133

Data File: /chem3/nt2.i/20100304.b/030409.d
Date : 04-MAR-2010 15:16
Client ID: CB4857022410Comp
Sample Info: QL58B
Volume Injected (uL): 2.0
Column phase: ZB-5

Instrument: nt2.i
Operator: VTS
Column diameter: 0.25

QL58:060112



Data File: /chem3/nt2.i/20100304.b/030409.d

Date : 04-MAR-2010 15:16

Client ID: CB4857022410Comp

Instrument: nt2.i

Sample Info: QL58B

Volume Injected (uL): 2.0

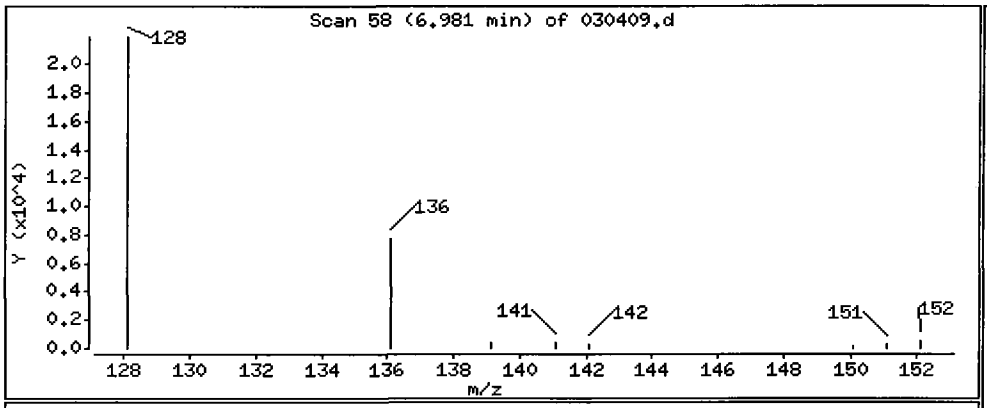
Operator: VTS

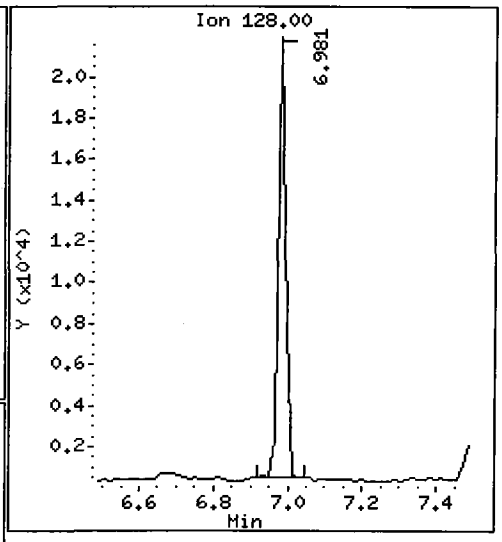
Column phase: ZB-5

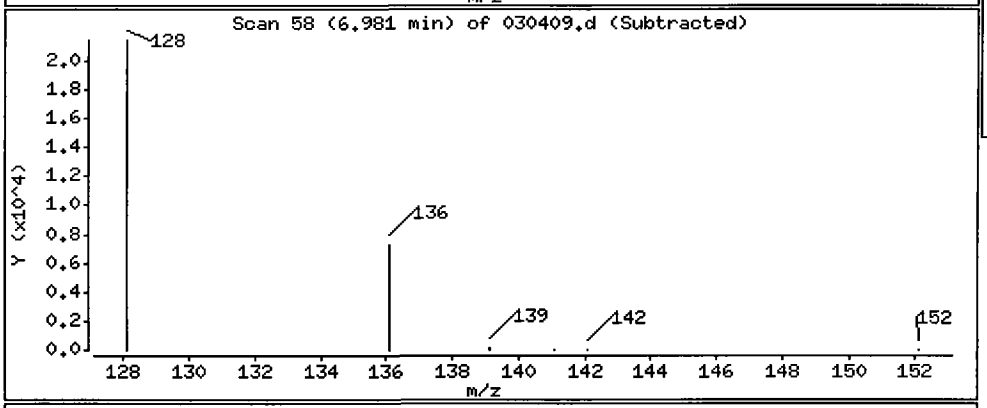
Column diameter: 0.25

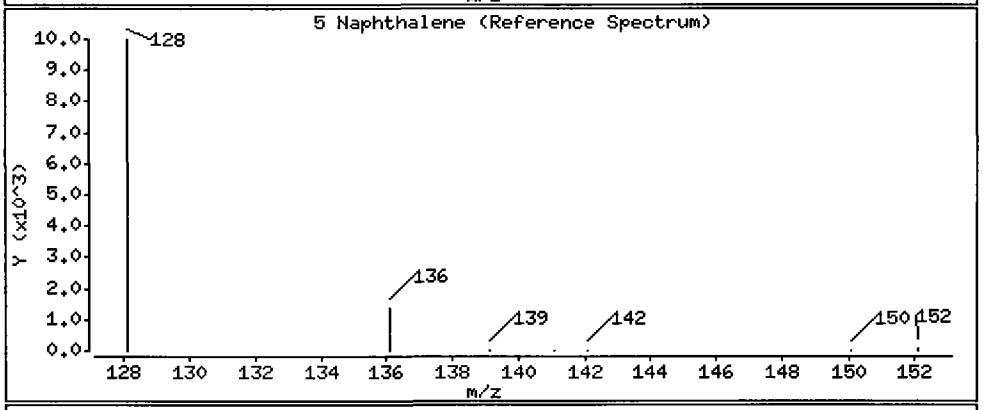
5 Naphthalene

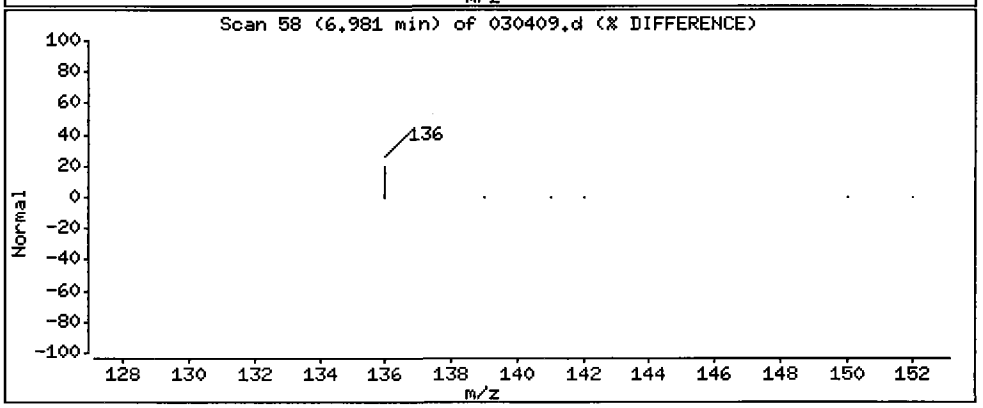
Concentration: 23.9 ug/L











Data File: /chem3/nt2.i/20100304.b/030409.d

Date : 04-MAR-2010 15:16

Client ID: CB4857022410Comp

Instrument: nt2.i

Sample Info: QL58B

Volume Injected (uL): 2.0

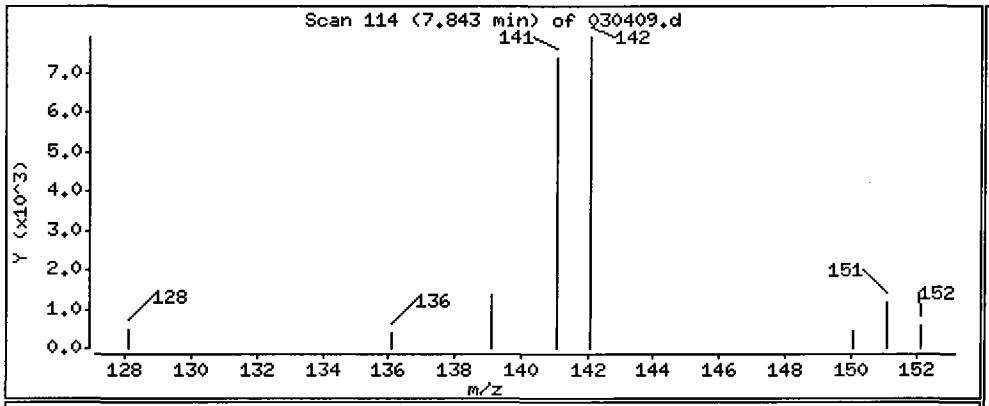
Operator: VTS

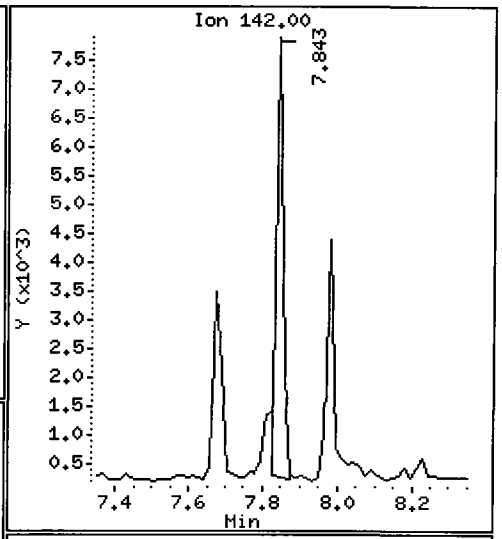
Column phase: ZB-5

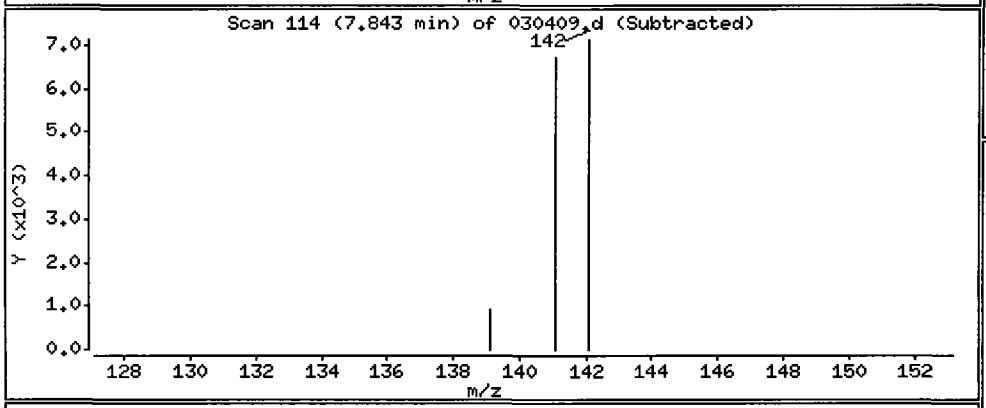
Column diameter: 0.25

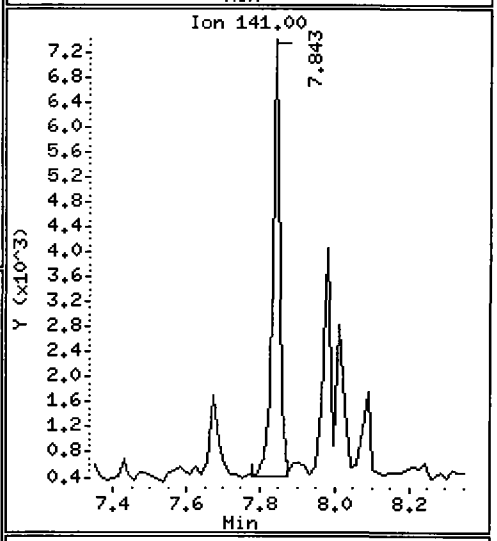
7 2-Methylnaphthalene

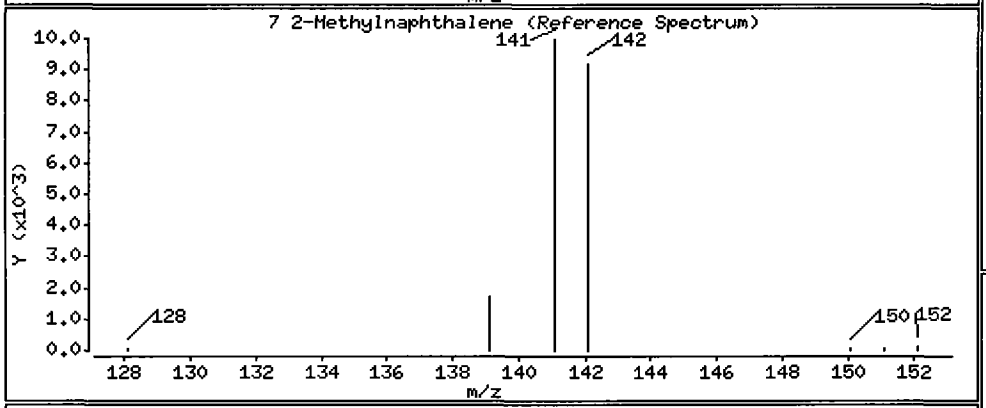
Concentration: 14.1 ug/L

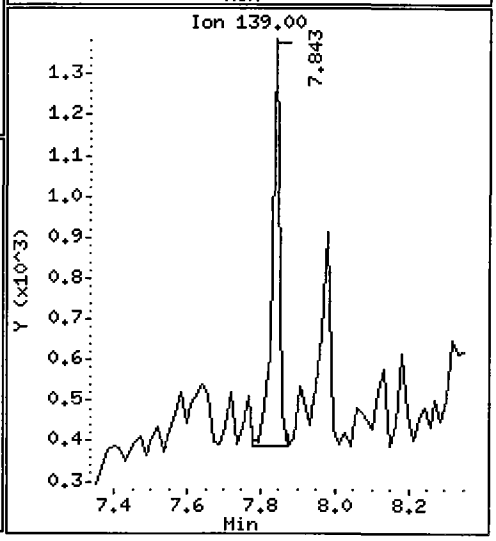


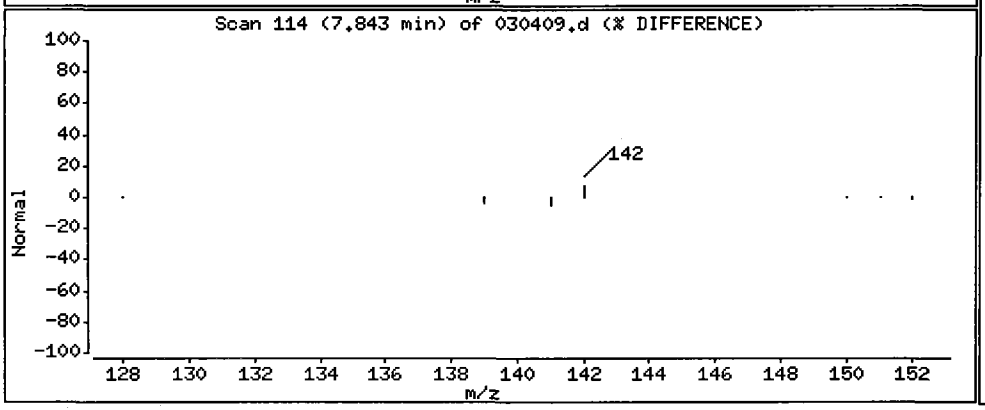












Data File: /chem3/nt2.i/20100304.b/030409.d

Date : 04-MAR-2010 15:16

Client ID: CB4857022410Comp

Instrument: nt2.i

Sample Info: QL58B

Volume Injected (uL): 2.0

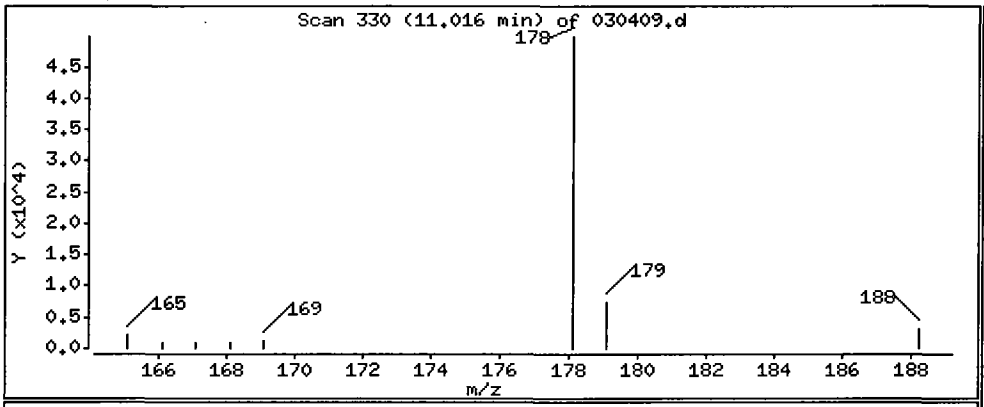
Operator: VTS

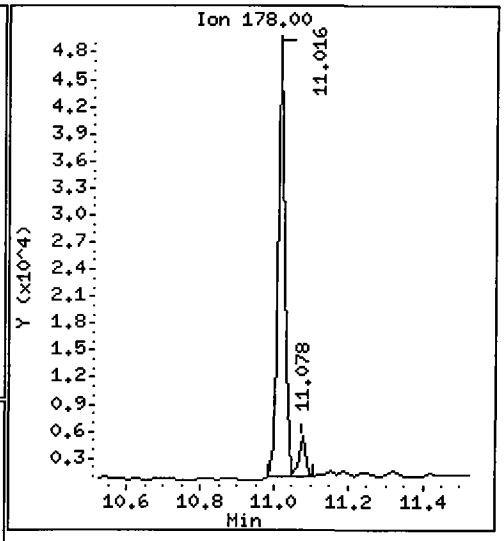
Column phase: ZB-5

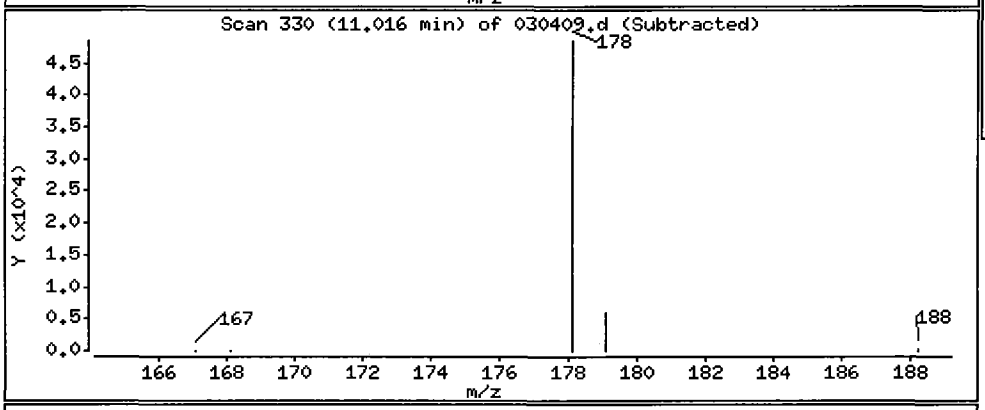
Column diameter: 0.25

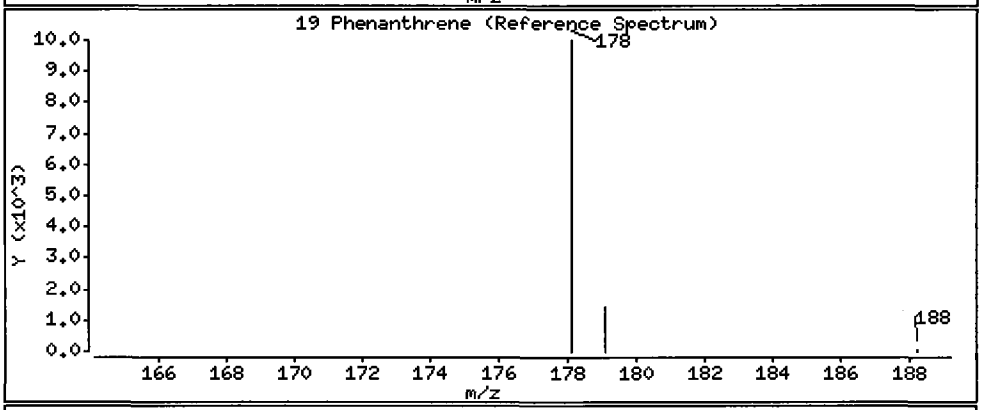
19 Phenanthrene

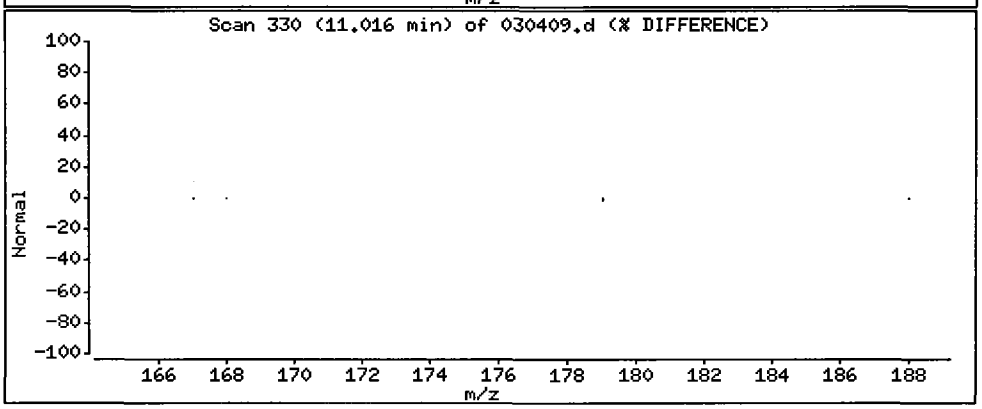
Concentration: 67.8 ug/L











Data File: /chem3/nt2.i/20100304.b/030409.d

Date : 04-MAR-2010 15:16

Client ID: CB4857022410Comp

Instrument: nt2.i

Sample Info: QL58B

Volume Injected (uL): 2.0

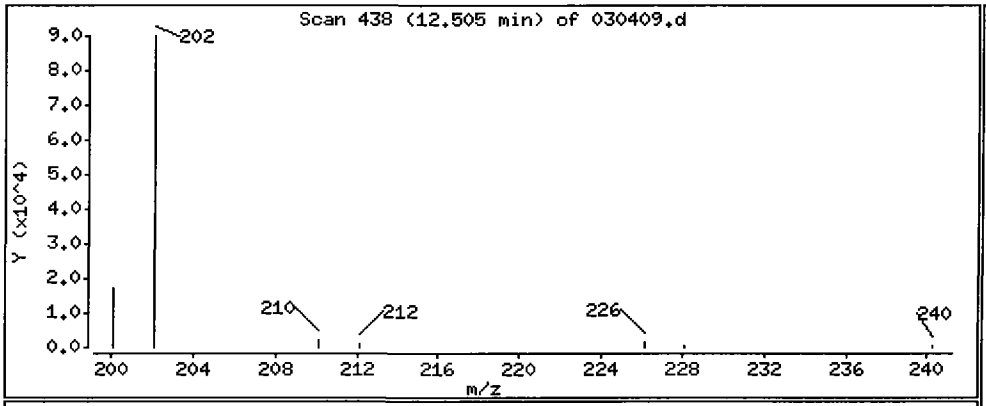
Operator: VTS

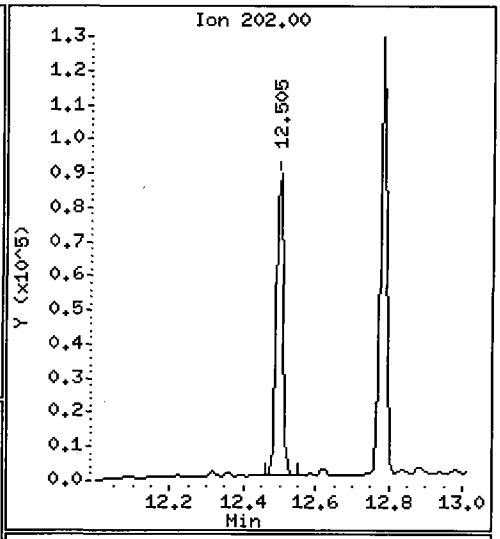
Column phase: ZB-5

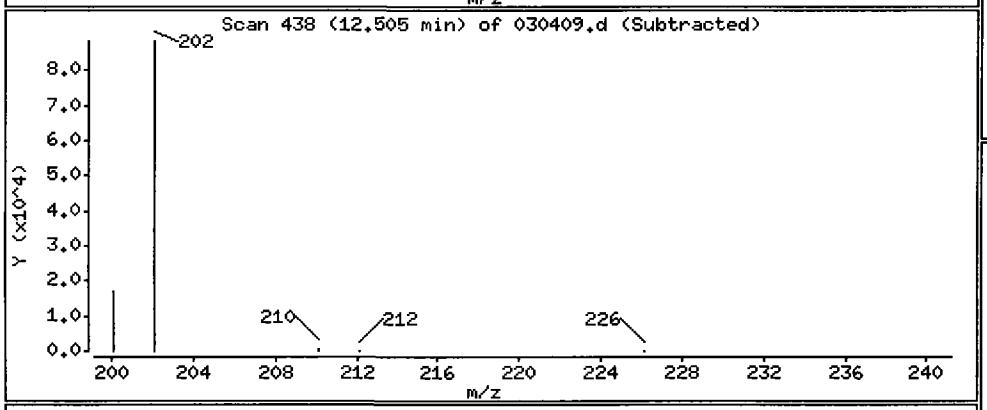
Column diameter: 0.25

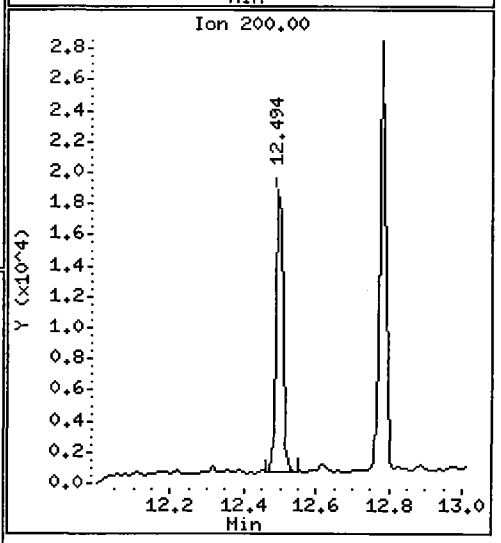
24 Fluoranthene

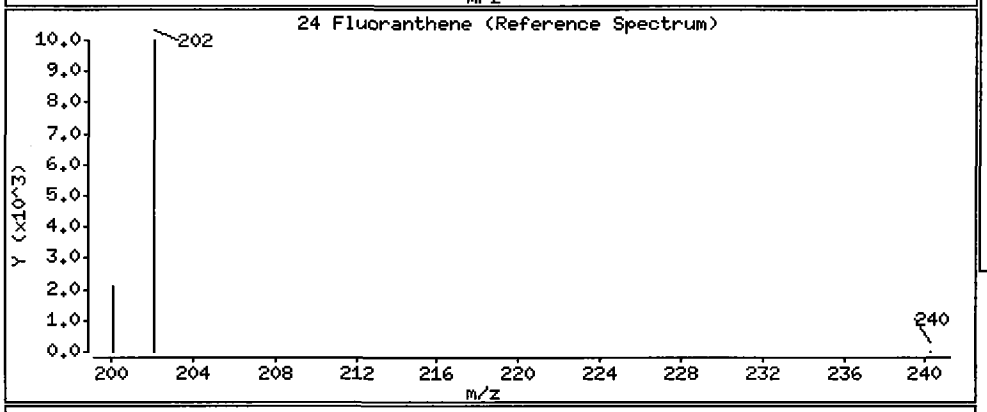
Concentration: 129 ug/L

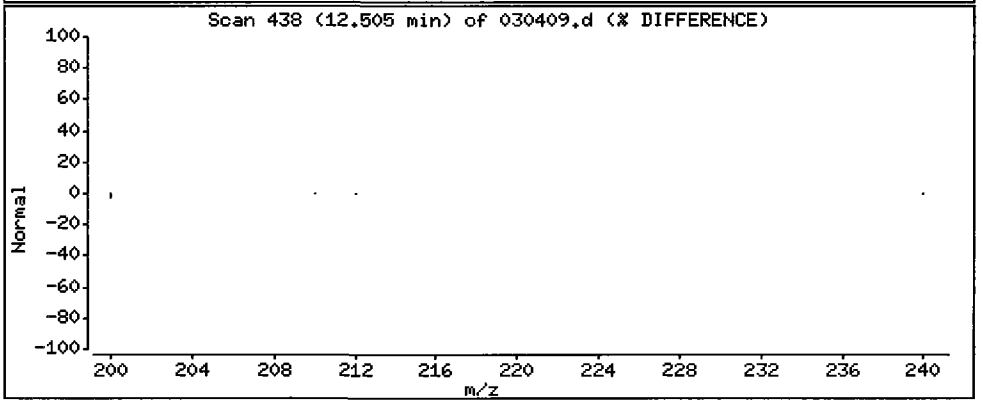












Data File: /chem3/nt2.i/20100304.b/030409.d

Date : 04-MAR-2010 15:16

Client ID: CB4857022410Comp

Instrument: nt2.i

Sample Info: QL58B

Volume Injected (uL): 2.0

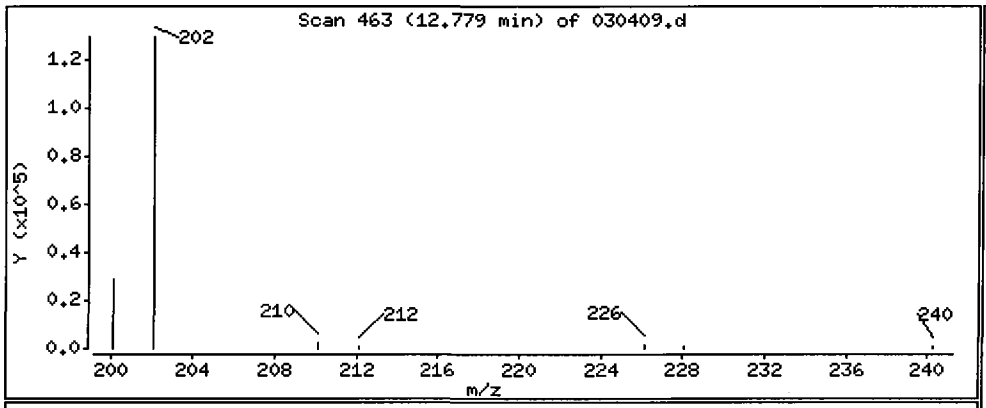
Operator: VTS

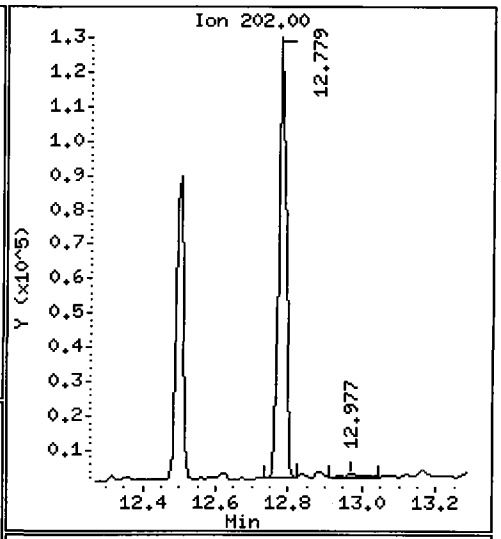
Column phase: ZB-5

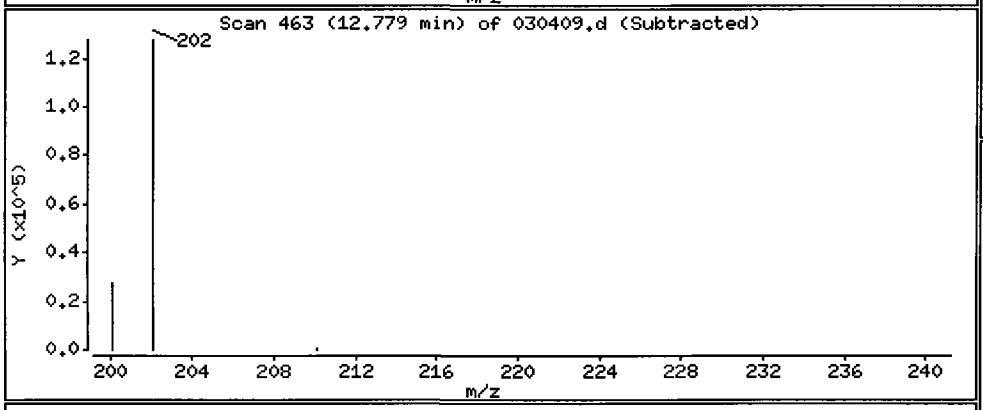
Column diameter: 0.25

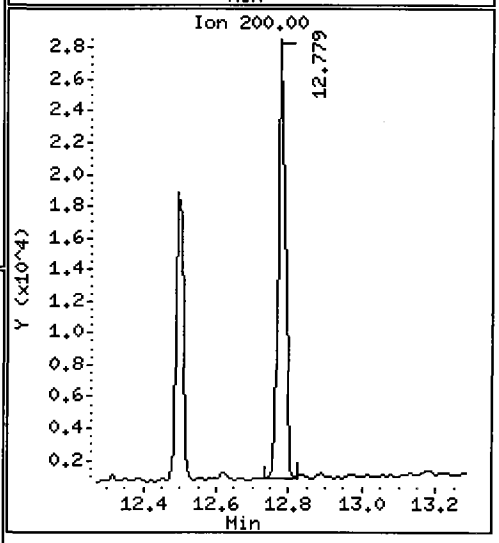
25 Pyrene

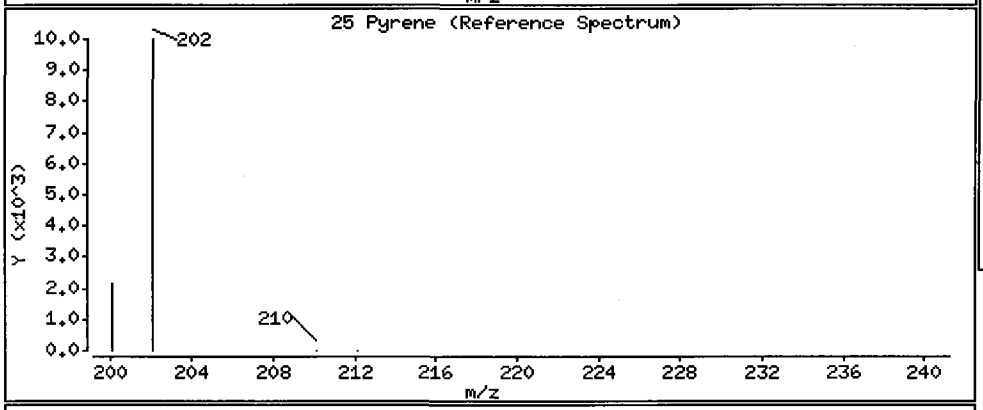
Concentration: 157 ug/L

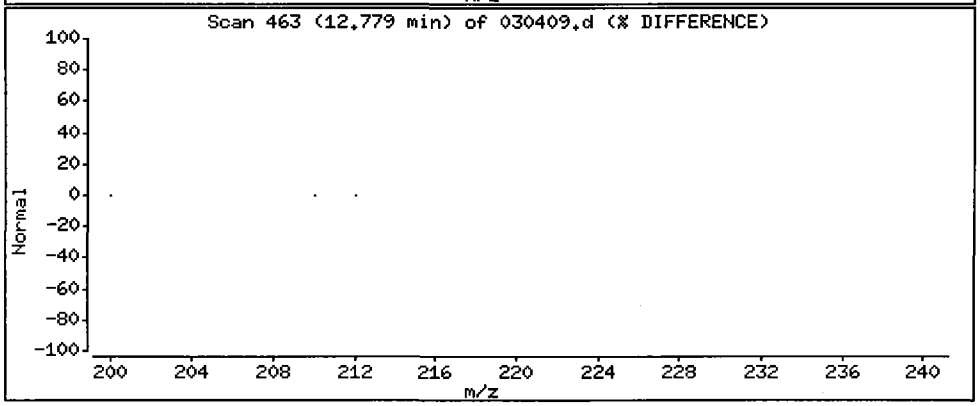












Data File: /chem3/nt2.i/20100304.b/030409.d

Date : 04-MAR-2010 15:16

Client ID: CB4857022410Comp

Instrument: nt2.i

Sample Info: QL58B

Volume Injected (uL): 2.0

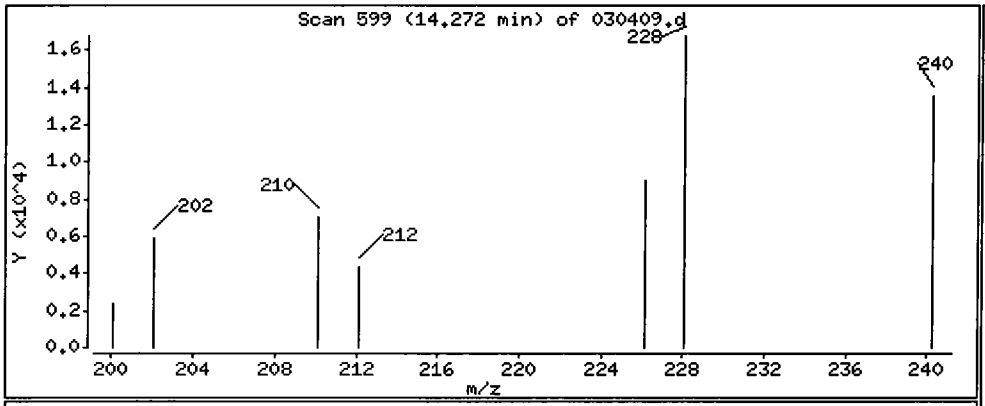
Operator: VTS

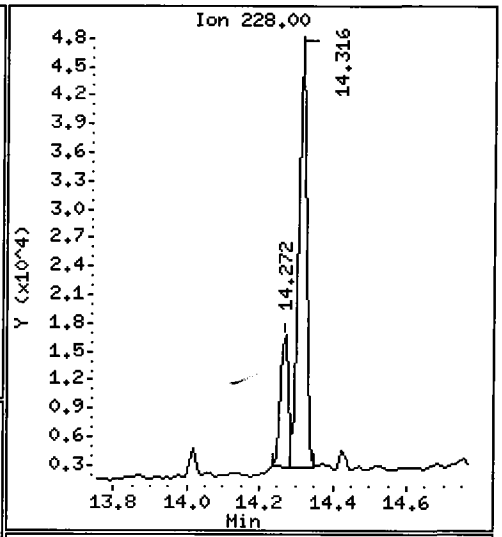
Column phase: ZB-5

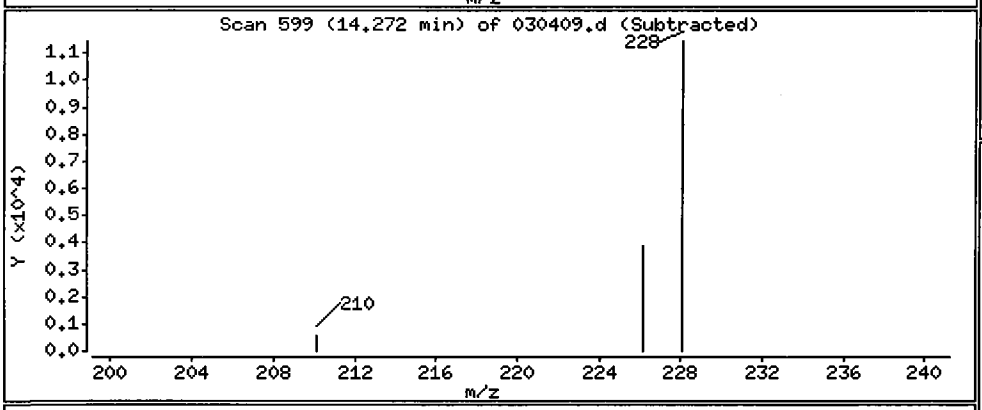
Column diameter: 0.25

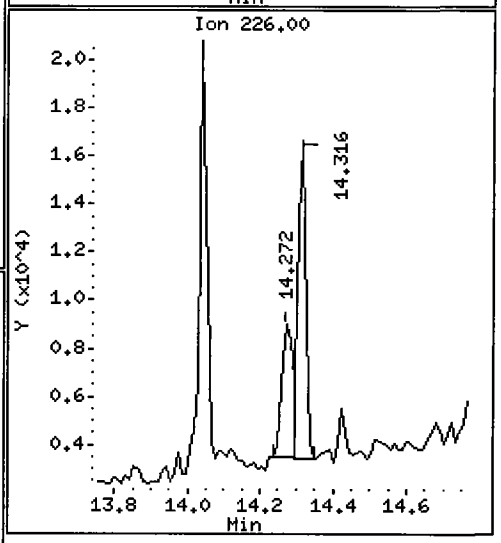
28 Benzo(a)anthracene

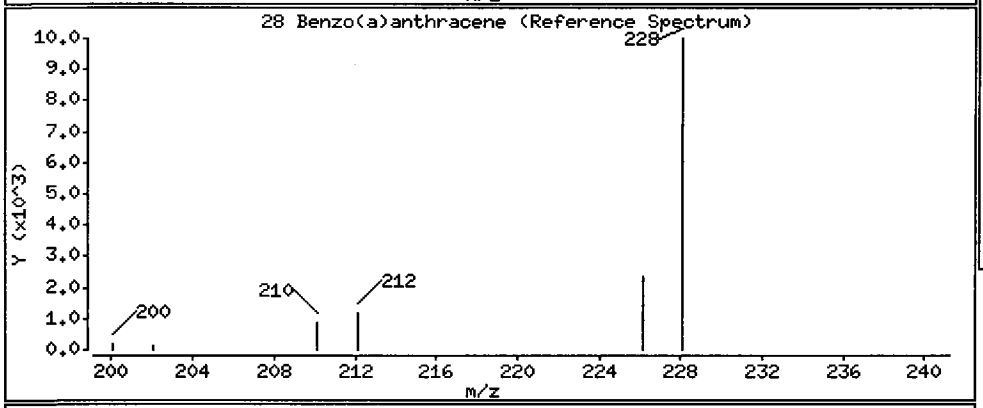
Concentration: 21.1 ug/L

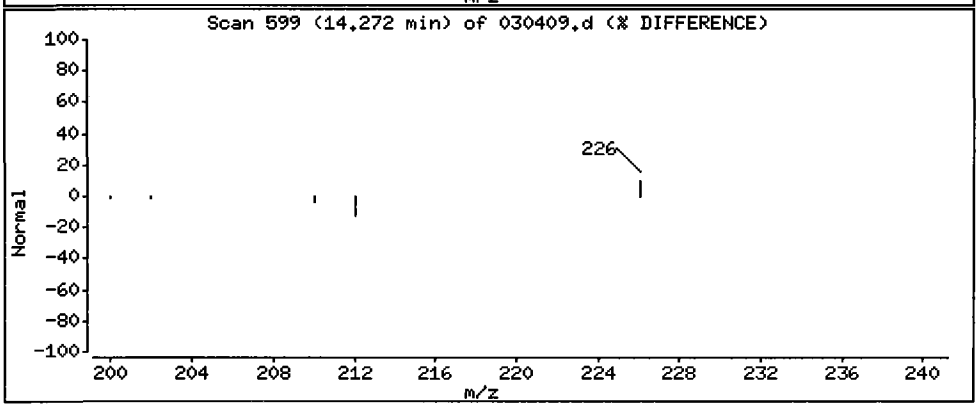












Data File: /chem3/nt2.i/20100304.b/030409.d

Date : 04-MAR-2010 15:16

Client ID: CB4857022410Comp

Instrument: nt2.i

Sample Info: QL58B

Volume Injected (uL): 2.0

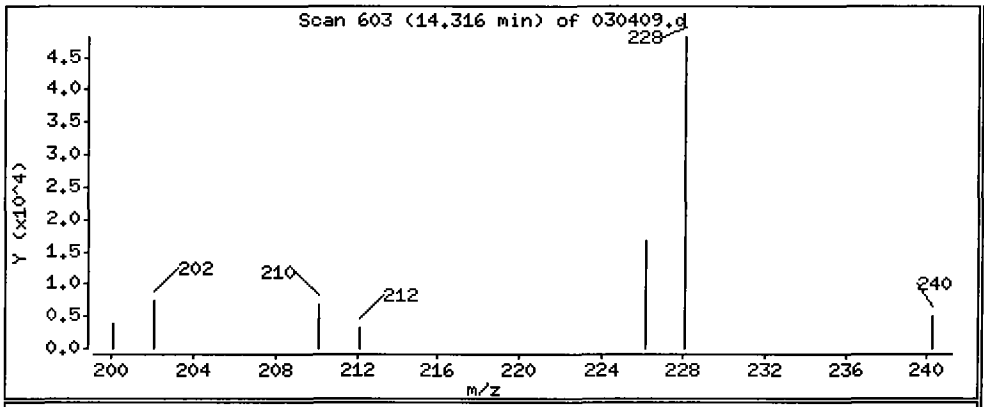
Operator: VTS

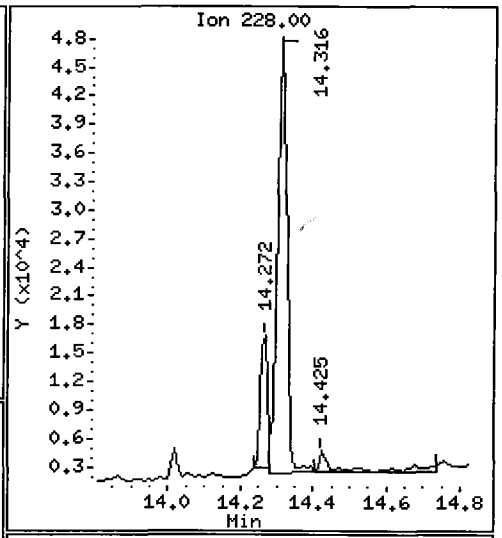
Column phase: ZB-5

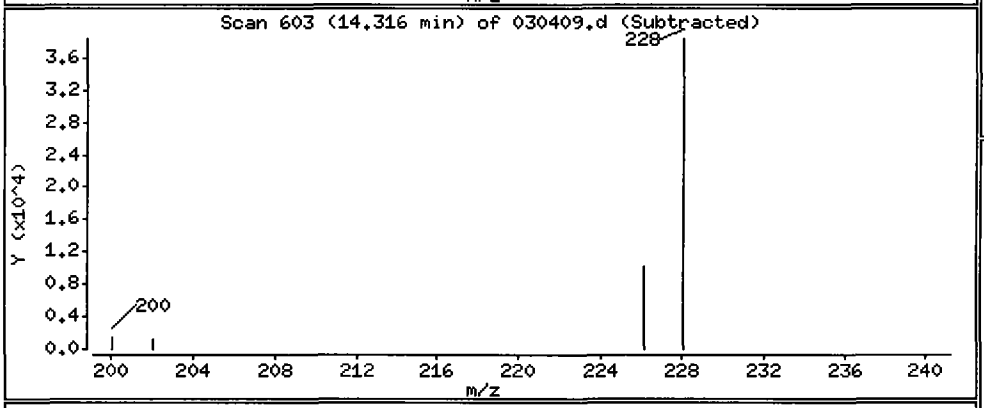
Column diameter: 0.25

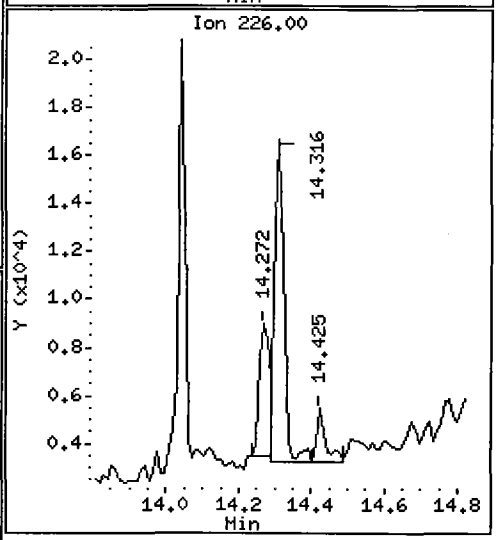
30 Chrysene

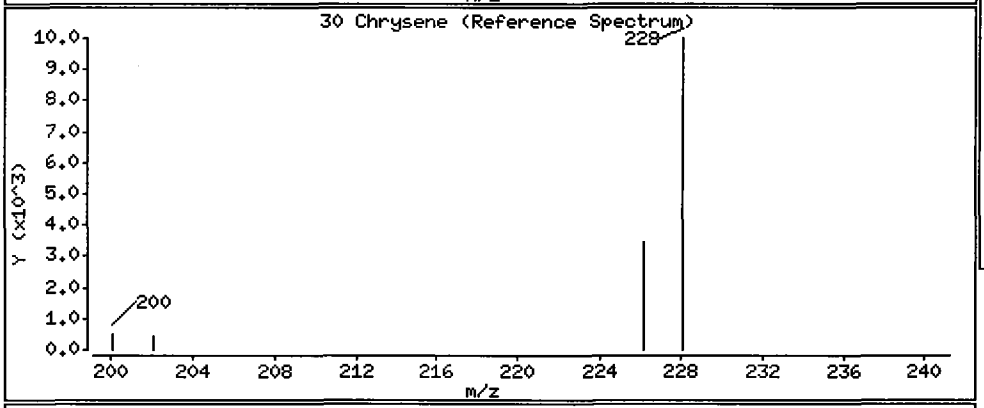
Concentration: 78.2 ug/L

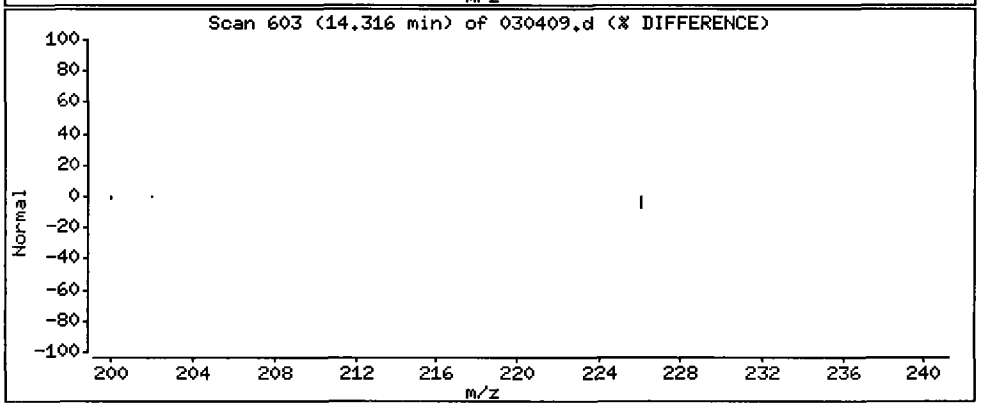












Data File: /chem3/nt2.i/20100304.b/030409.d

Date : 04-MAR-2010 15:16

Client ID: CB4857022410Comp

Instrument: nt2.i

Sample Info: QL58B

Volume Injected (uL): 2.0

Operator: VTS

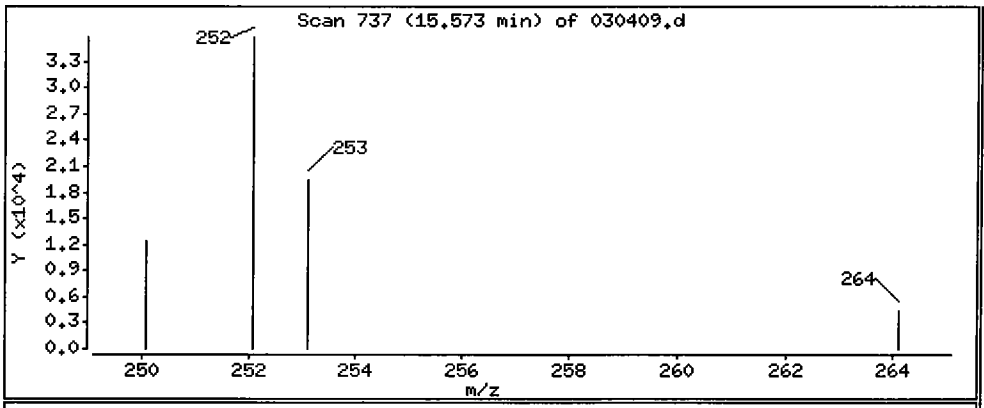
Column phase: ZB-5

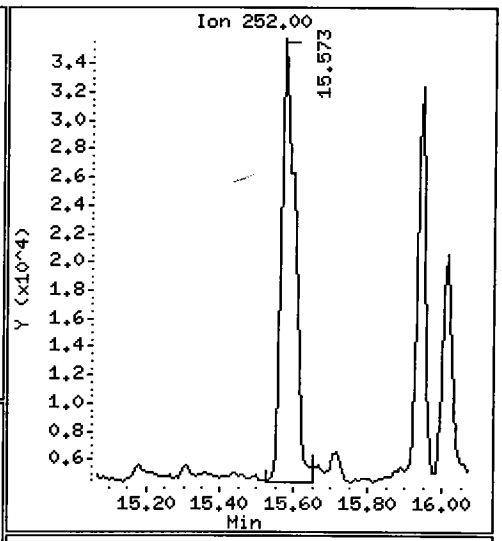
Column diameter: 0.25

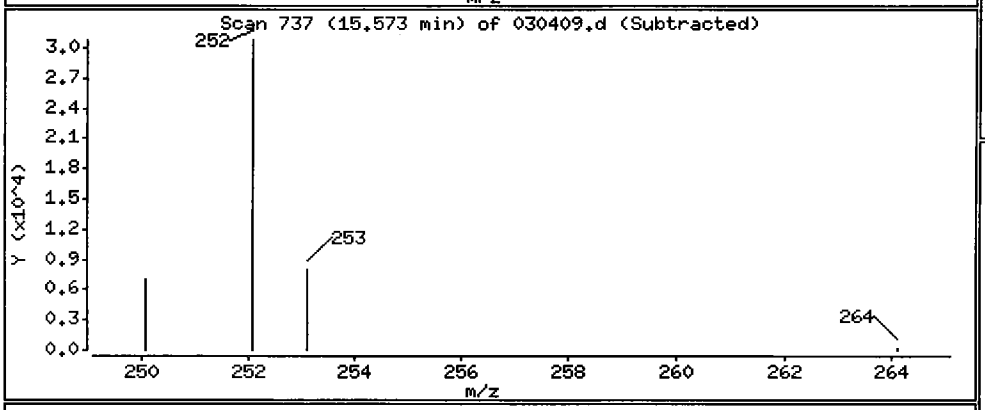
1/L

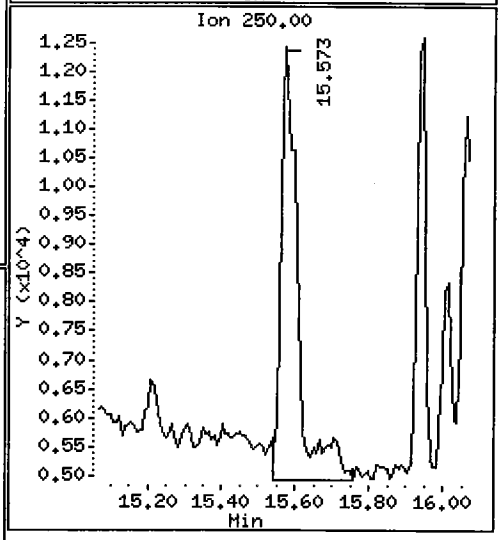
32 Benzo(b)fluoranthene

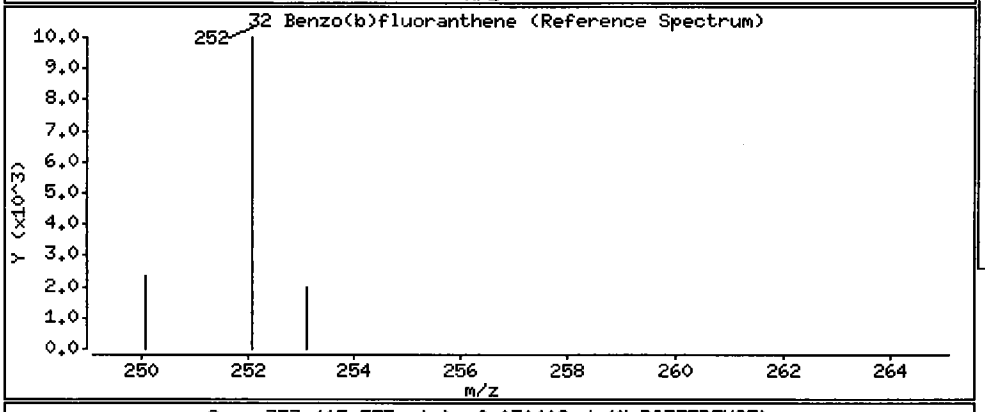
Concentration: 69.6 ug/L

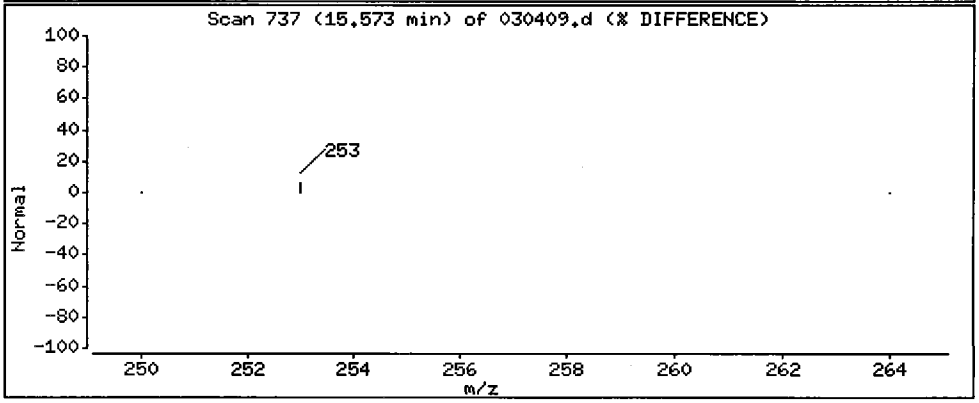












Data File: /chem3/nt2.i/20100304.b/030409.d

Date : 04-MAR-2010 15:16

Client ID: CB4857022410Comp

Instrument: nt2.i

Sample Info: QL58B

Volume Injected (uL): 2.0

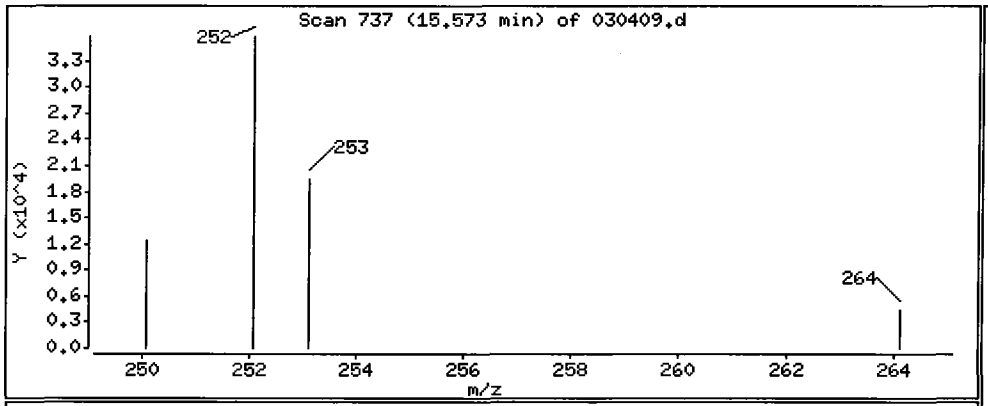
Operator: VTS

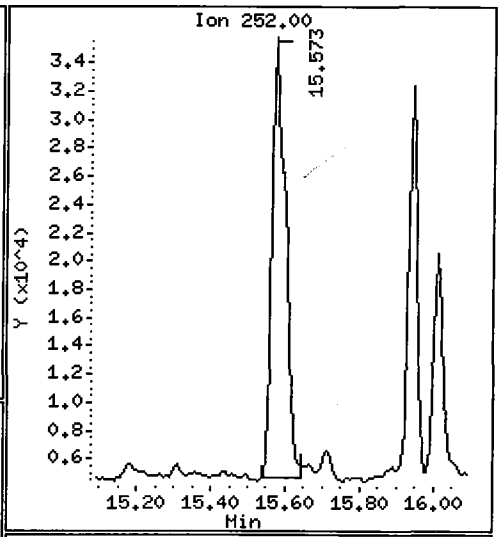
Column phase: ZB-5

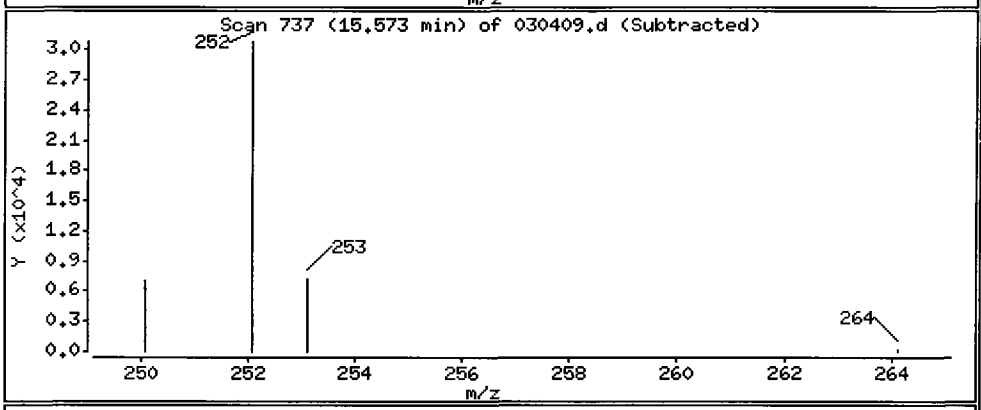
Column diameter: 0.25

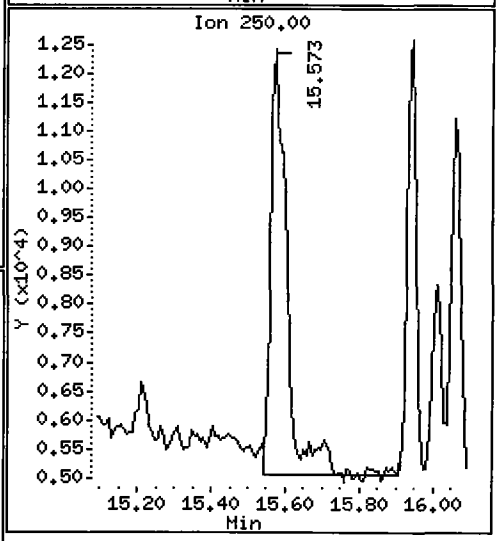
33 Benzo(k)fluoranthene

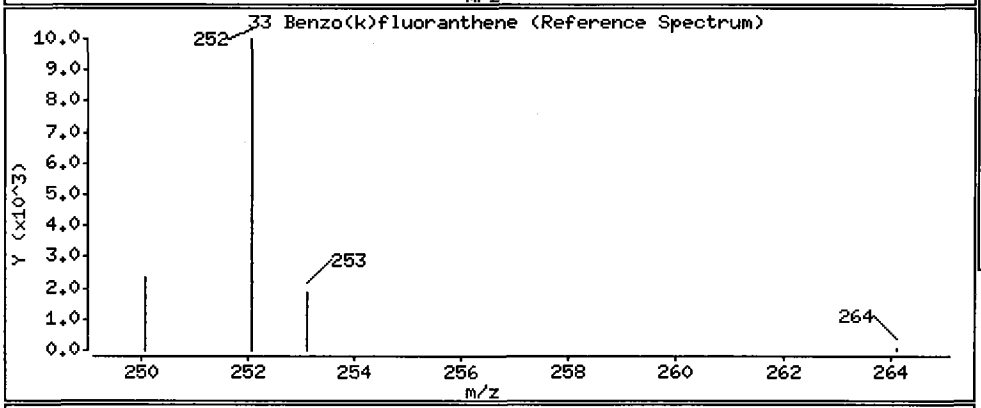
Concentration: 62.4 ug/L

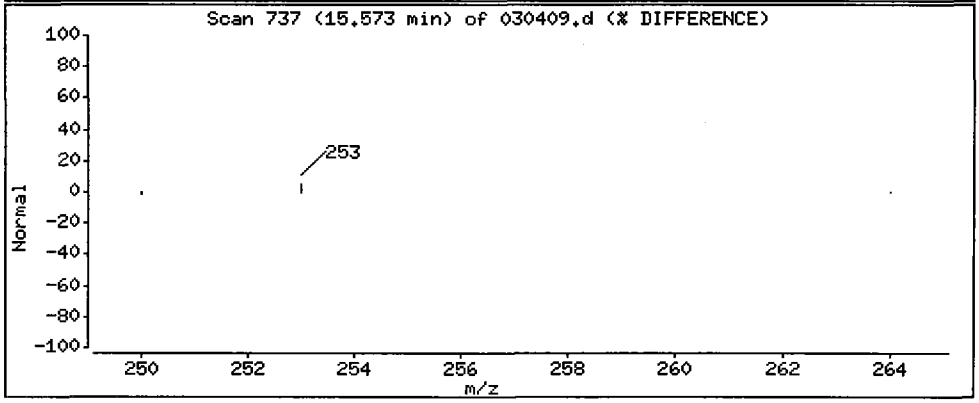












Data File: /chem3/nt2.i/20100304.b/030409.d

Date : 04-MAR-2010 15:16

Client ID: CB4857022410Comp

Instrument: nt2.i

Sample Info: QL58B

Volume Injected (uL): 2.0

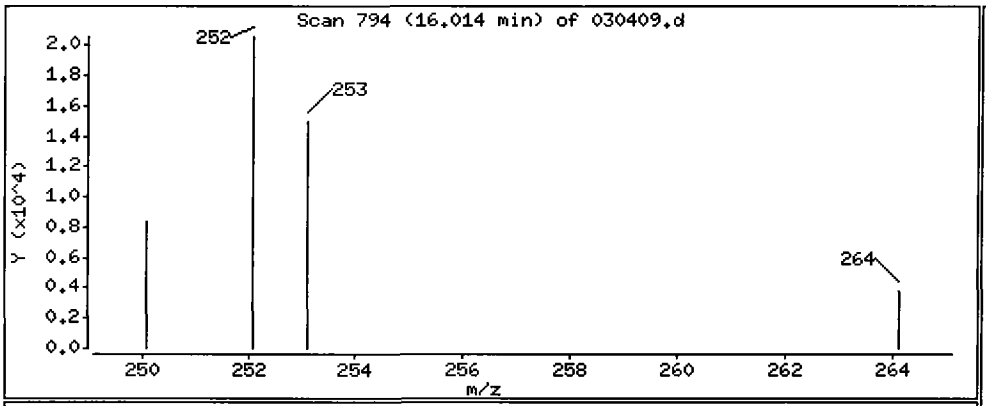
Operator: VTS

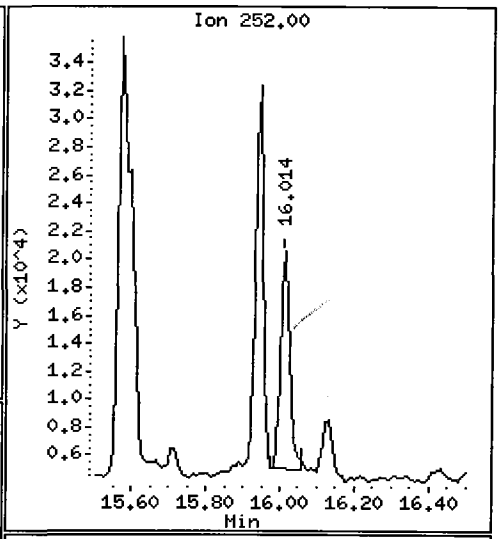
Column phase: ZB-5

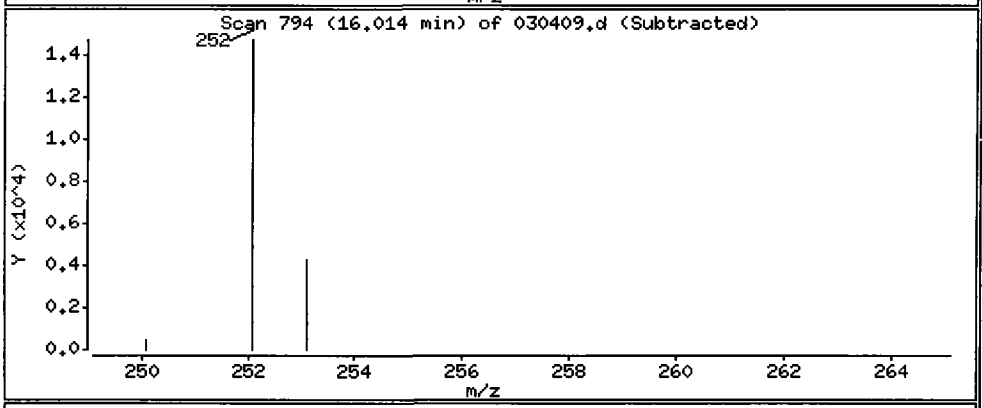
Column diameter: 0.25

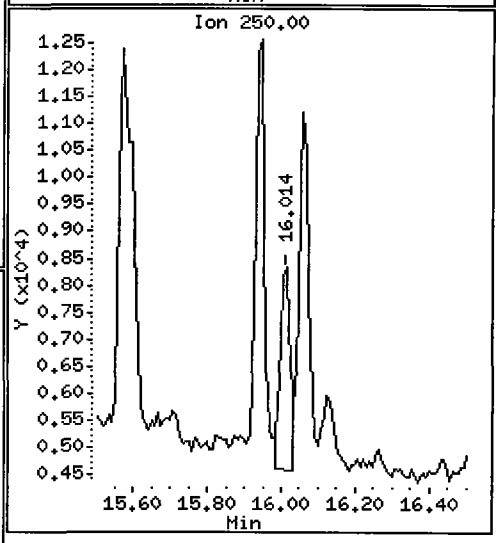
34 Benzo(a)pyrene

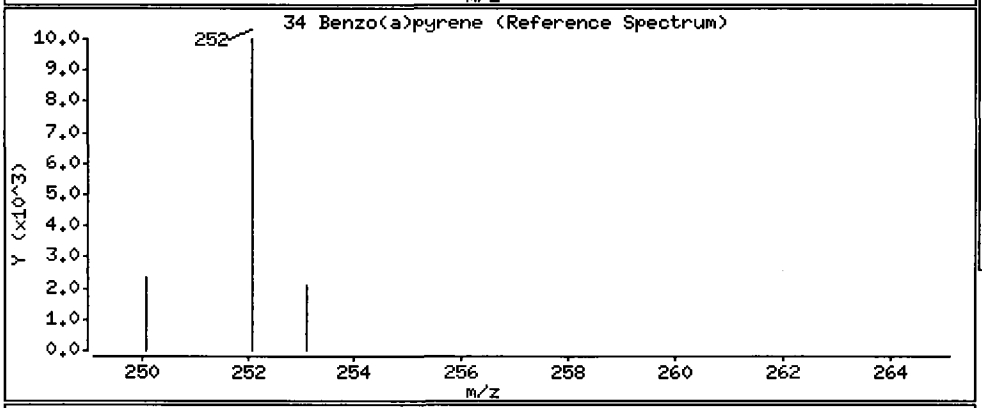
Concentration: 30.4 ug/L

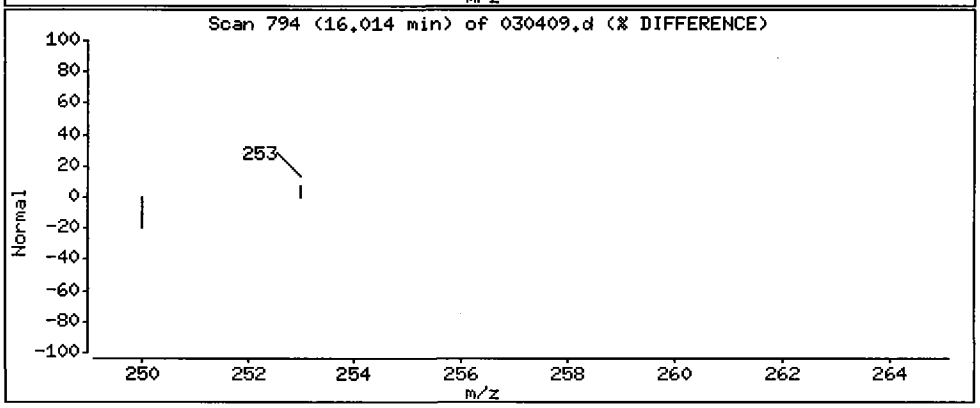












Data File: /chem3/nt2.i/20100304.b/030409.d

Date : 04-MAR-2010 15:16

Client ID: CB4857022410Comp

Instrument: nt2.i

Sample Info: QL58B

Volume Injected (uL): 2.0

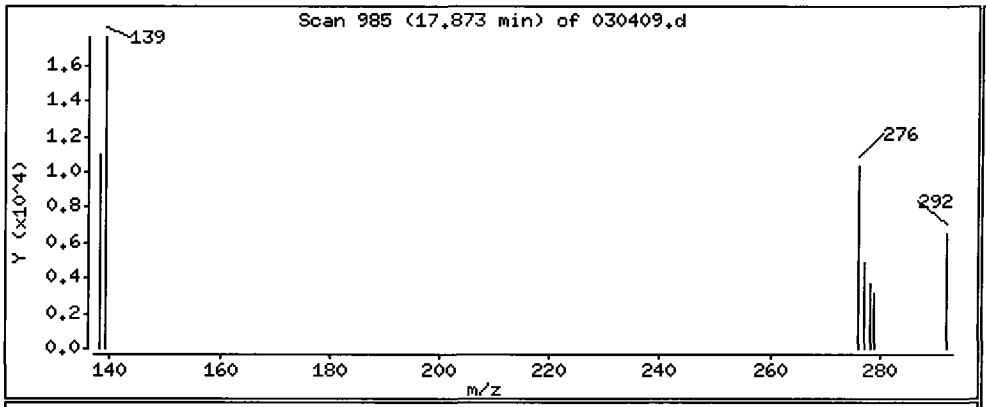
Operator: VTS

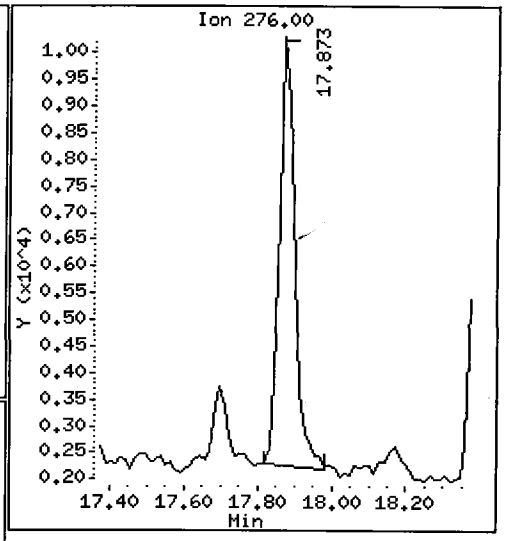
Column phase: ZB-5

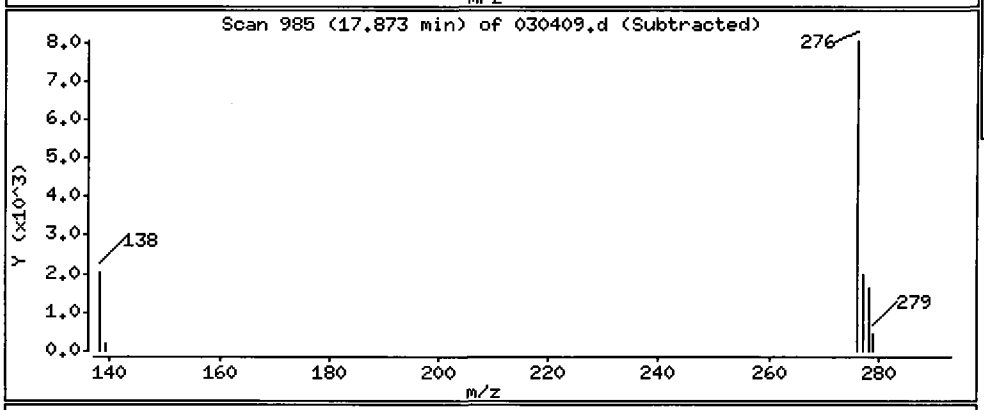
Column diameter: 0.25

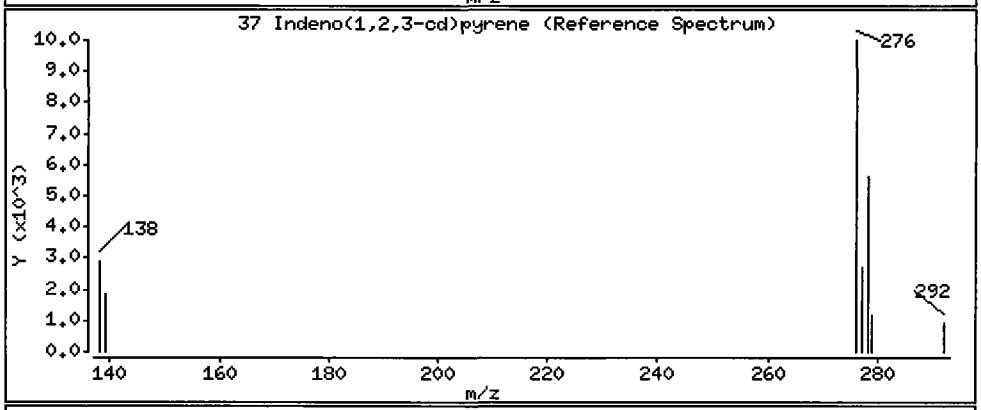
37 Indeno(1,2,3-cd)pyrene

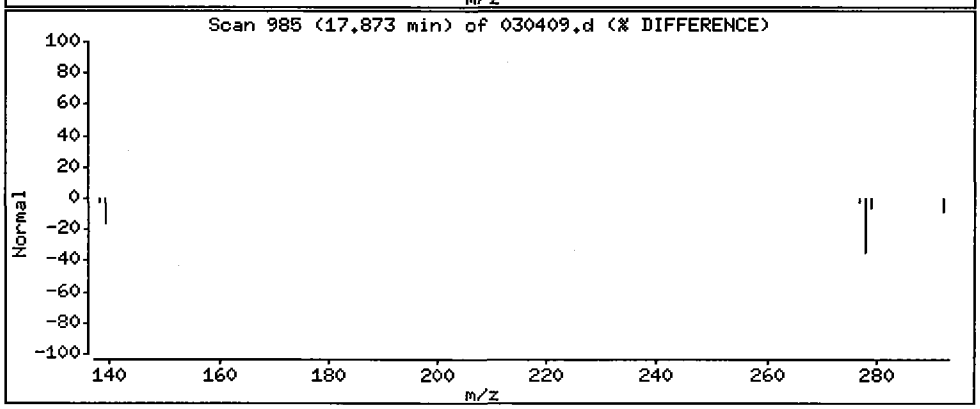
Concentration: 22.5 ug/L











Data File: /chem3/nt2.i/20100304.b/030409.d

Date : 04-MAR-2010 15:16

Client ID: CB4857022410Comp

Instrument: nt2.i

Sample Info: QL58B

Volume Injected (uL): 2.0

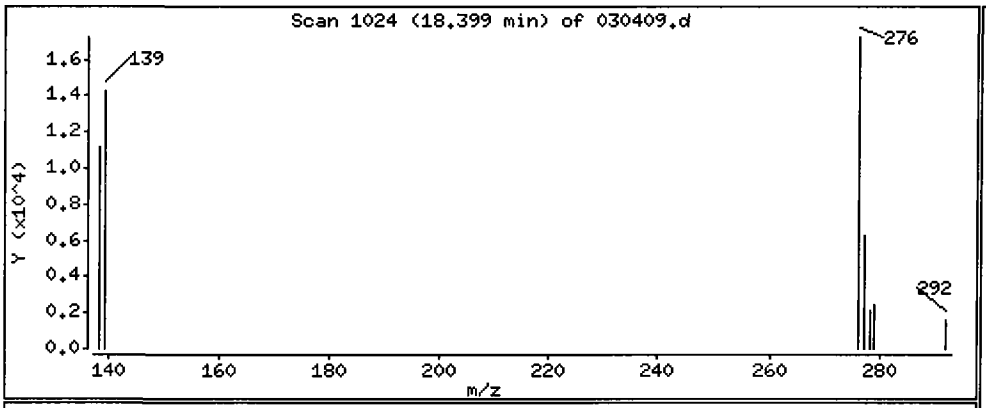
Operator: VTS

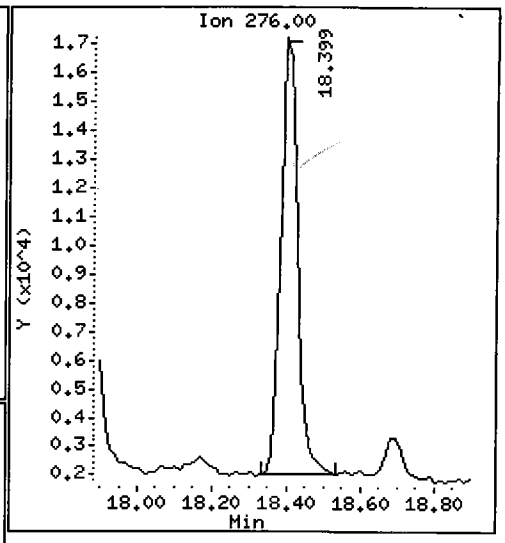
Column phase: ZB-5

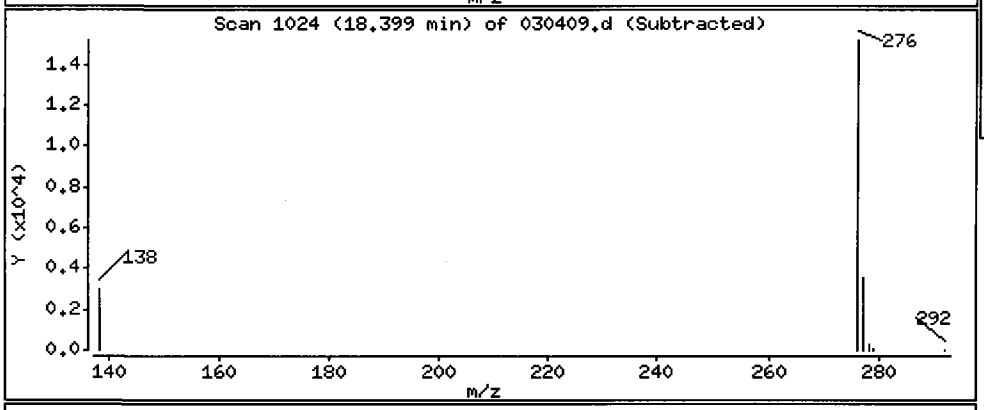
Column diameter: 0.25

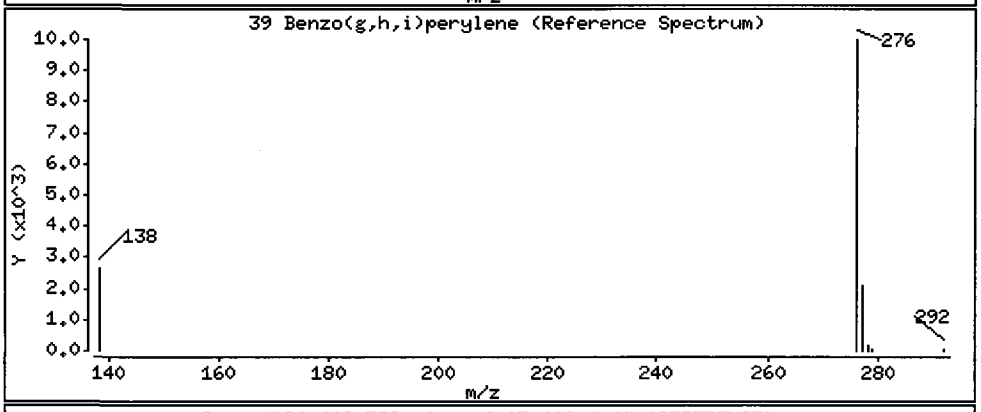
39 Benzo(g,h,i)perylene

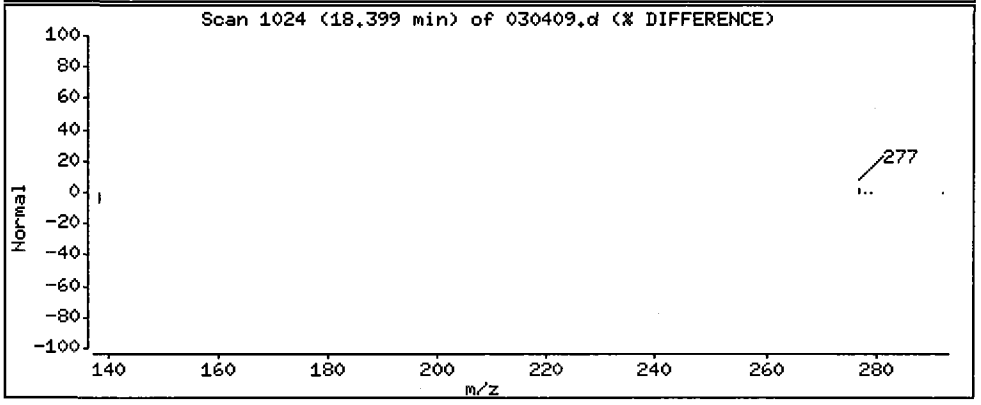
Concentration: 53.4 ug/L



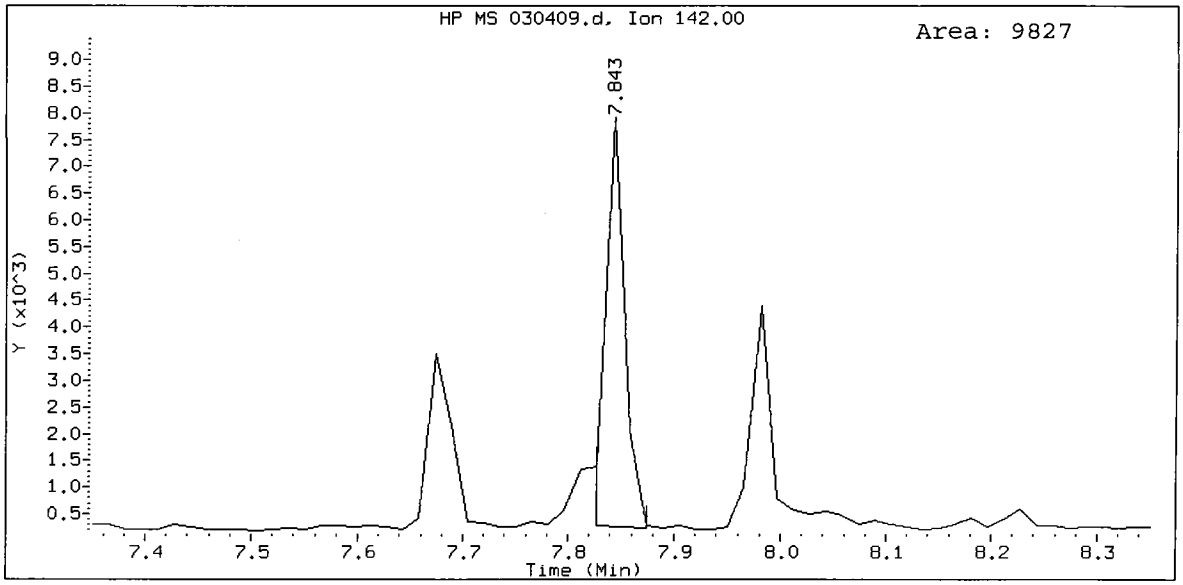


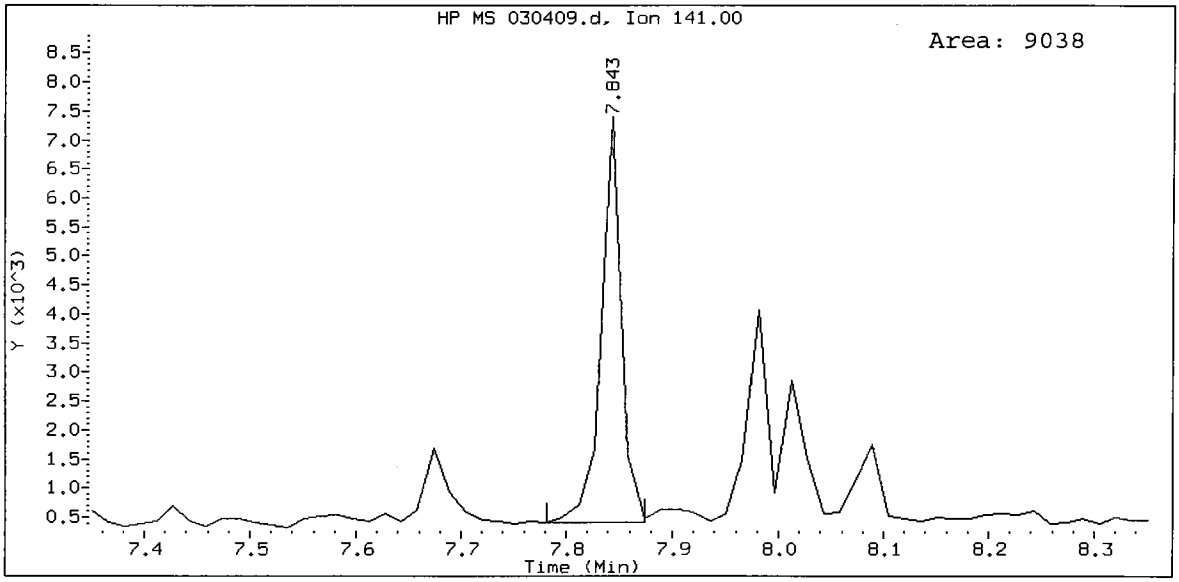


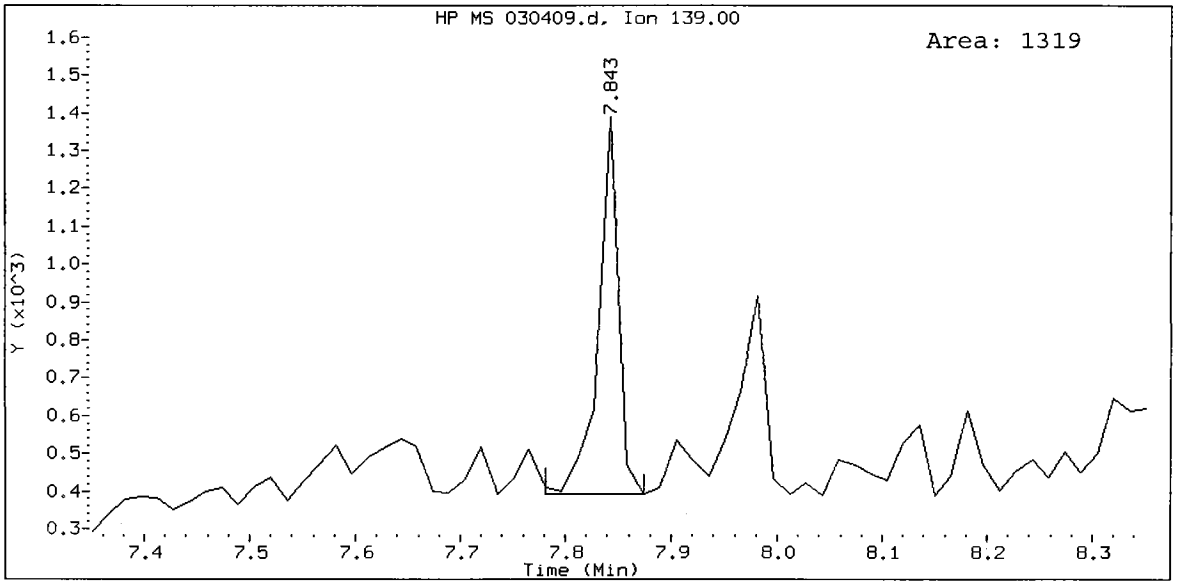




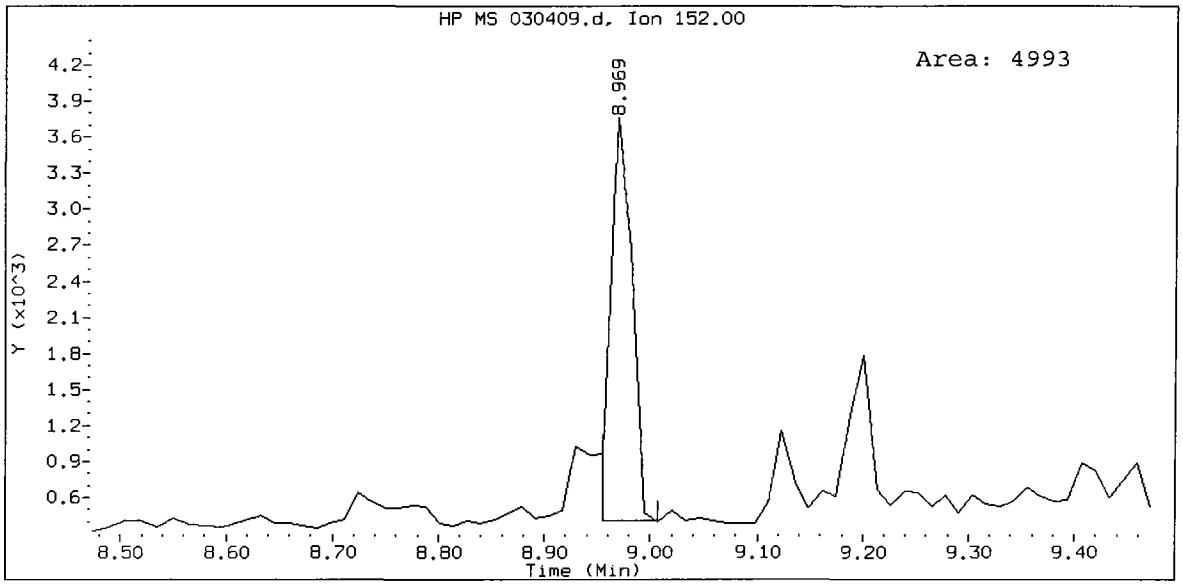
QL58B, /chem3/nt2.i/20100304.b/030409.d
2-Methylnaphthalene Amount: 14.12







QL58B, /chem3/nt2.i/20100304.b/030409.d
Acenaphthylene Amount: 5.21



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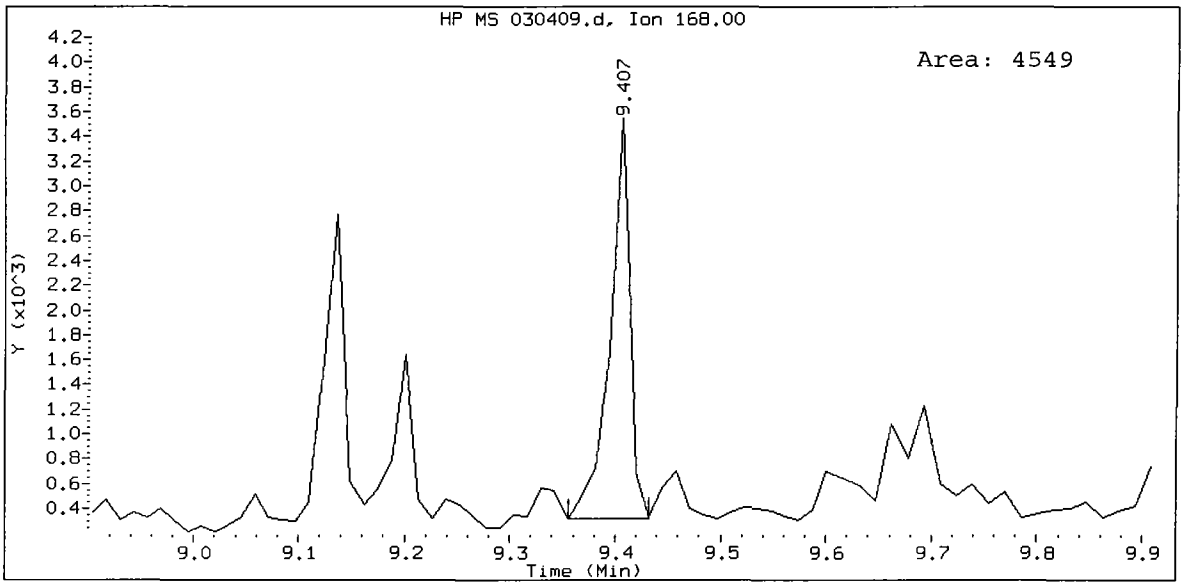
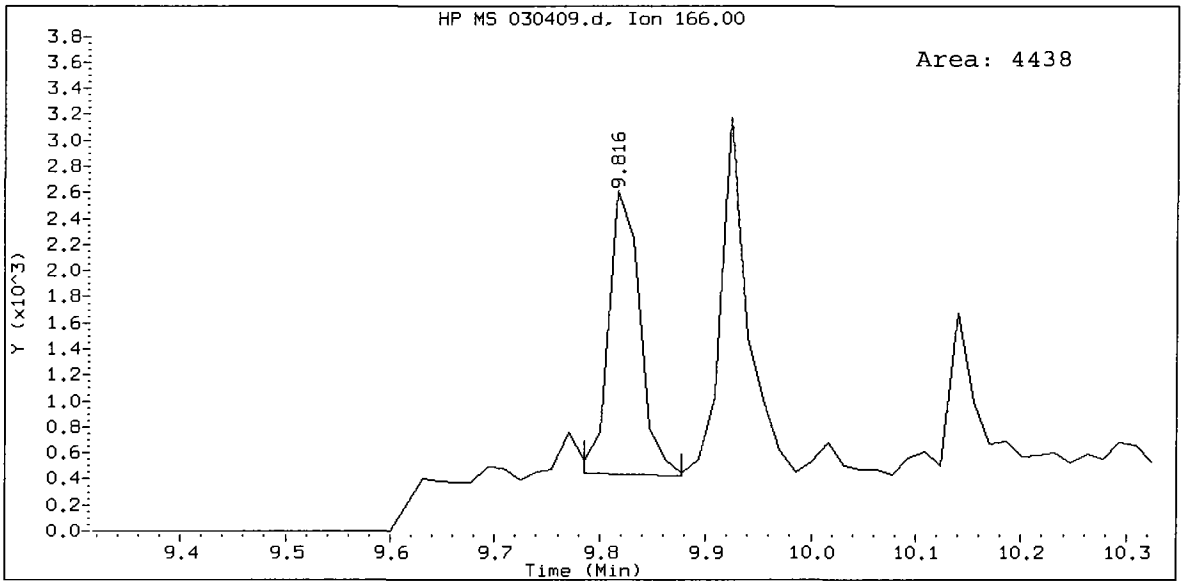
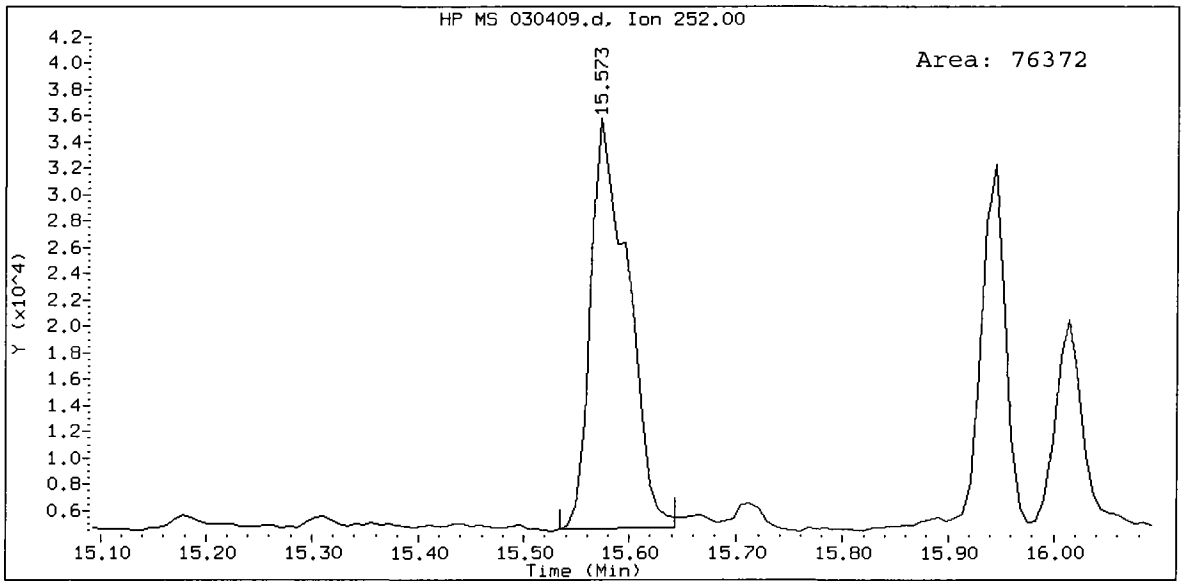
Dibenzofuran Amount: 5.87

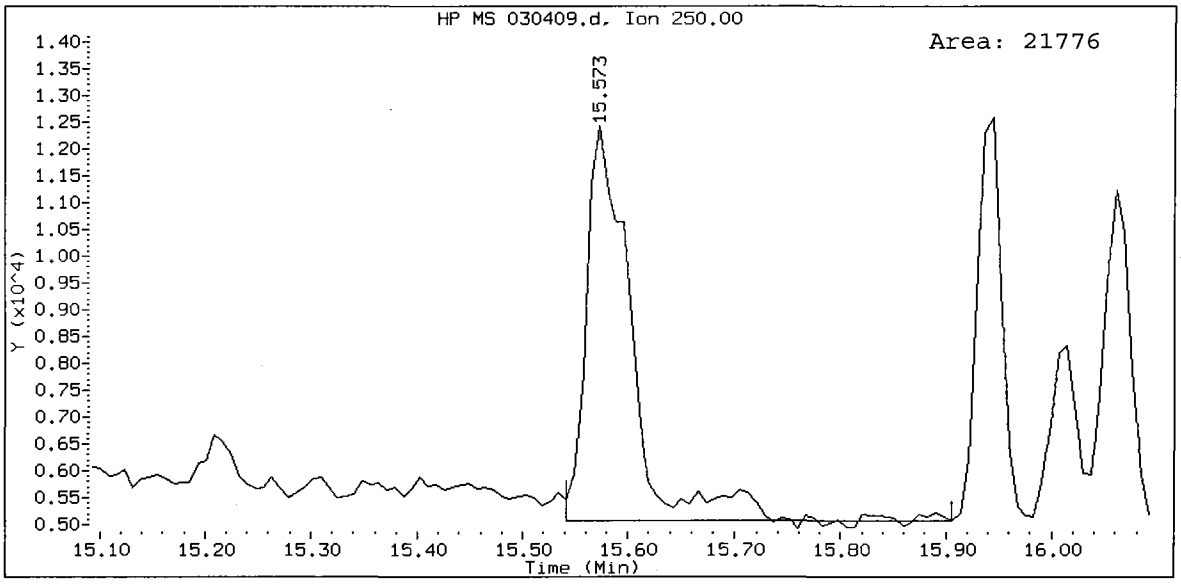


QL58B, /chem3/nt2.i/20100304.b/030409.d
Fluorene Amount: 6.93



QL58B, /chem3/nt2.i/20100304.b/030409.d
Benzo(k)fluoranthene Amount: 62.39





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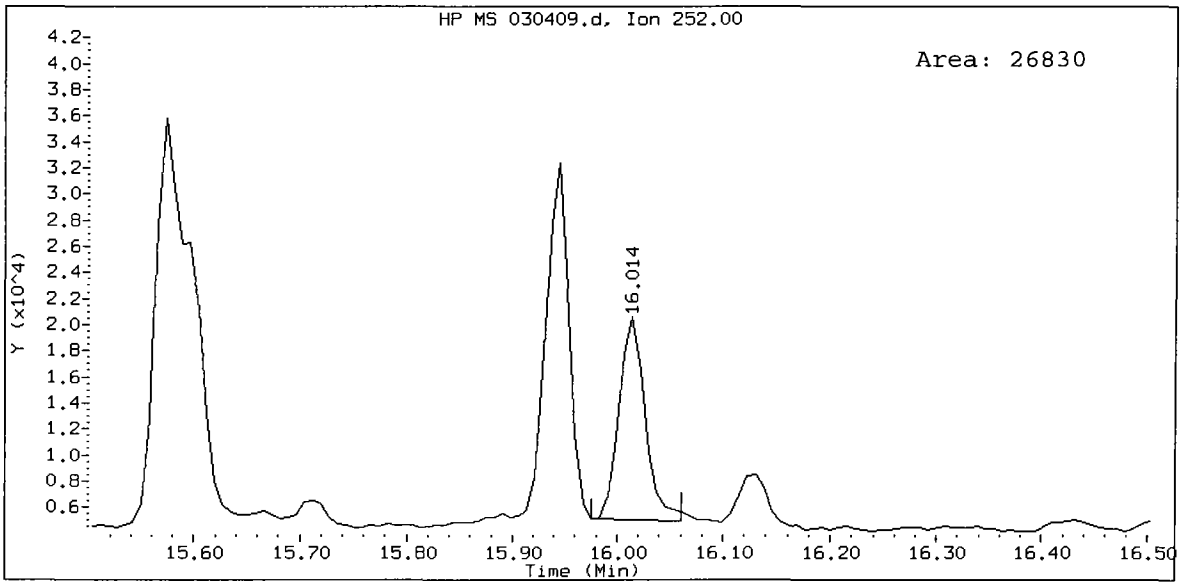
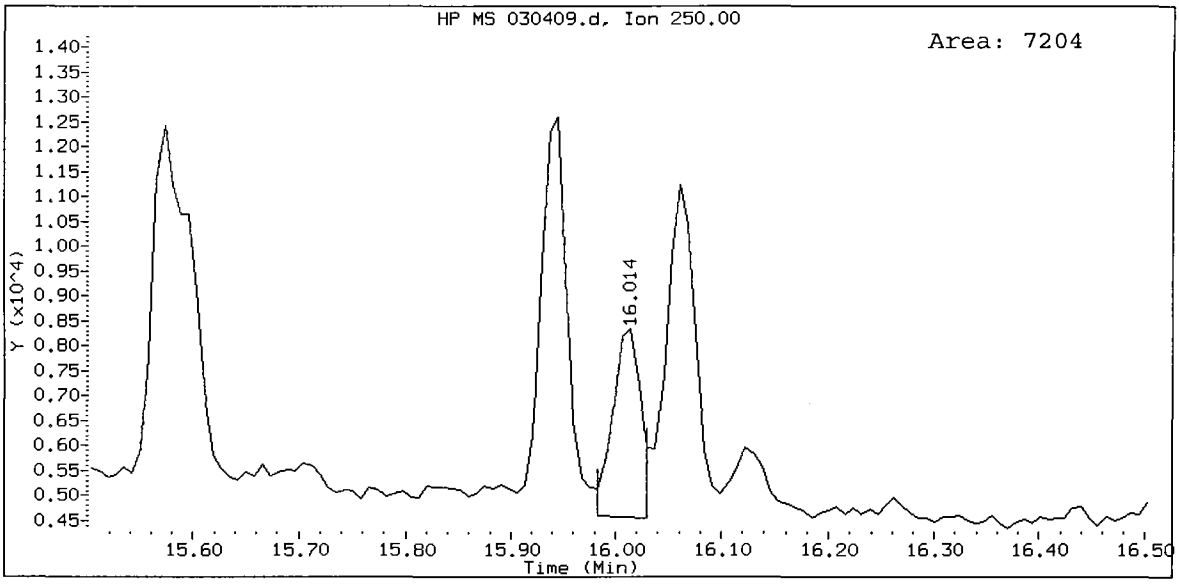
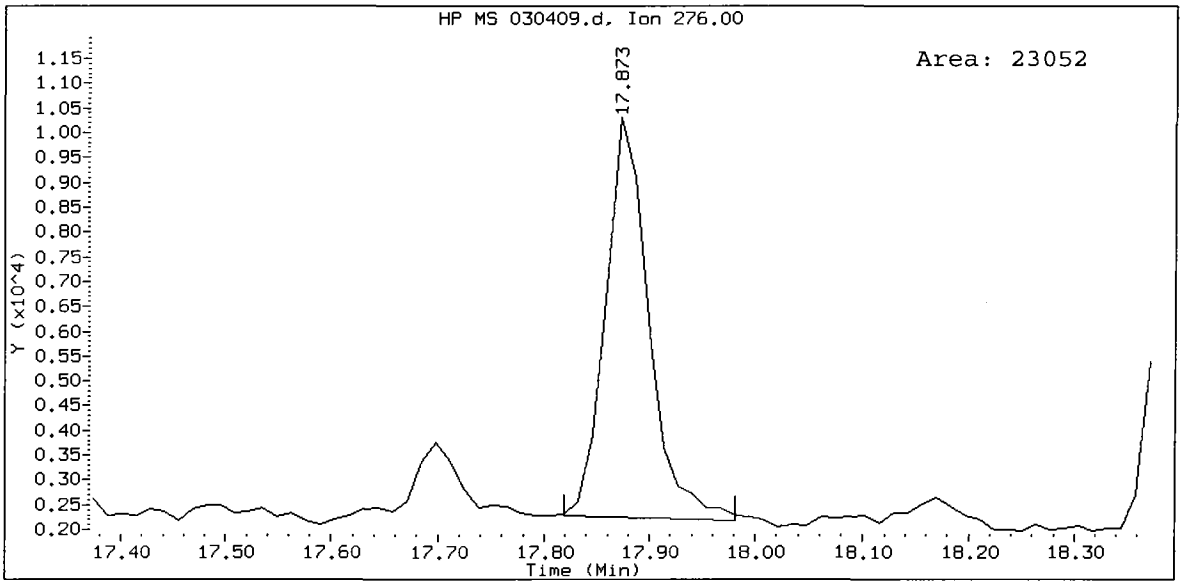
Benzo(a)pyrene Amount: 30.37

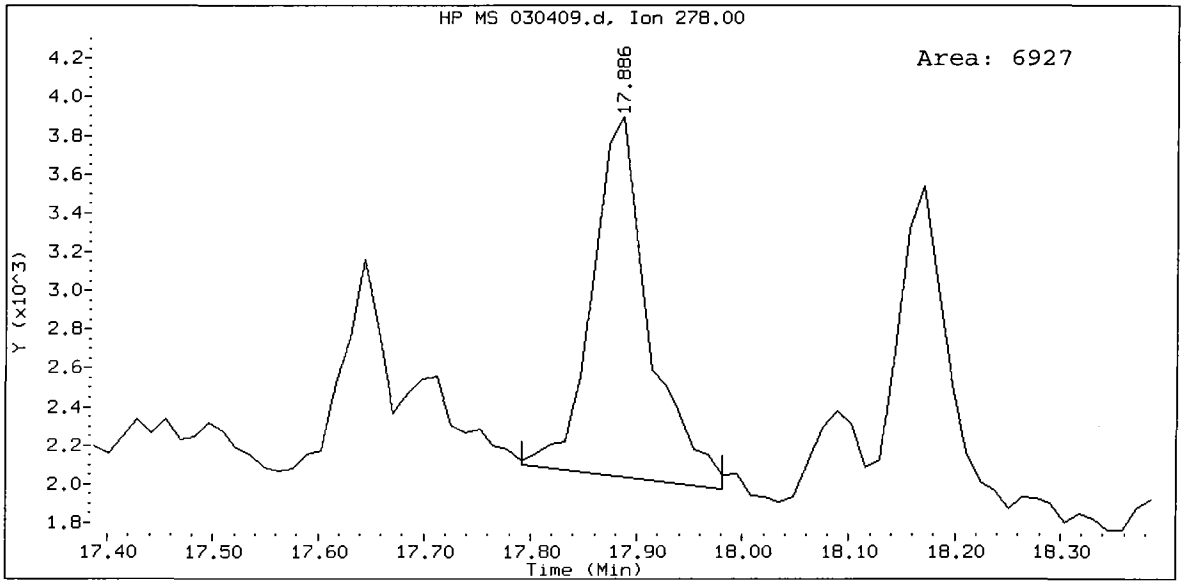




QL58B, /chem3/nt2.i/20100304.b/030409.d
Indeno(1,2,3-cd)pyrene Amount: 22.52



QL58B, /chem3/nt2.i/20100304.b/030409.d
Dibenzo(a,h)anthracene Amount: 8.65



ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by Low Level SW8270D-SIM GC/MS
Page 1 of 1

Sample ID: CB1022410Comp
SAMPLE

Lab Sample ID: QL58C
LIMS ID: 10-4798
Matrix: Water
Data Release Authorized:
Reported: 03/08/10

QC Report No: QL58-Floyd/Snider
Project: Lora Lake Apartments
Event: POS-LLA
Date Sampled: 02/24/10
Date Received: 02/25/10

Date Extracted: 03/01/10
Date Analyzed: 03/04/10 15:41
Instrument/Analyst: NT2/PK

Sample Amount: 500 mL
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
91-20-3	**Naphthalene**	**0.010**	**0.015**
91-57-6	2-Methylnaphthalene	0.010	< 0.010 U
90-12-0	1-Methylnaphthalene	0.010	< 0.010 U
208-96-8	Acenaphthylene	0.010	< 0.010 U
83-32-9	Acenaphthene	0.010	< 0.010 U
86-73-7	Fluorene	0.010	< 0.010 U
85-01-8	Phenanthrene	0.010	< 0.010 U
120-12-7	Anthracene	0.010	< 0.010 U
206-44-0	Fluoranthene	0.010	< 0.010 U
129-00-0	Pyrene	0.010	< 0.010 U
56-55-3	Benzo(a)anthracene	0.010	< 0.010 U
218-01-9	Chrysene	0.010	< 0.010 U
205-99-2	Benzo(b)fluoranthene	0.010	< 0.010 U
207-08-9	Benzo(k)fluoranthene	0.010	< 0.010 U
50-32-8	Benzo(a)pyrene	0.010	< 0.010 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.010	< 0.010 U
53-70-3	Dibenz(a,h)anthracene	0.010	< 0.010 U
191-24-2	Benzo(g,h,i)perylene	0.010	< 0.010 U
132-64-9	Dibenzofuran	0.010	< 0.010 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	70.3%
d14-Dibenzo(a,h)anthracene	39.3%

Analytical Resources, Inc.

LOW LEVEL PNAs BY SW8270D-SIM

Data file : /chem3/nt2.i/20100304.b/030410.d
Lab Smp Id: QL58C Client Smp ID: CB1022410Comp
Inj Date : 04-MAR-2010 15:41
Operator : VTS Inst ID: nt2.i
Smp Info : QL58C
Misc Info : 10-4798
Comment :
Method : /chem3/nt2.i/20100304.b/lowsim.m
Meth Date : 05-Mar-2010 11:18 peter Quant Type: ISTD
Cal Date : 21-OCT-2009 13:30 Cal File: ic102106.d
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pna1mn.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Vt / Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Final Extract Volume (uL)
Vo	500.00000	Sample Volume extracted (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/mL)	CONCENTRATIONS FINAL (ug/L)
*	4 Naphthalene-d8	136	6.965	6.967	(1.000)	254033	200.000	
	5 Naphthalene	128	6.980	6.982	(1.002)	18658	15.2529	15.3
$	6 2-Methylnaphthalene-d10	152	7.811	7.813	(1.121)	138098	211.063	211
	7 2-Methylnaphthalene	142	7.842	7.844	(1.126)	4163	5.83580	5.84
	8 1-Methylnaphthalene	142	Compound Not Detected.					
	10 Acenaphthylene	152	Compound Not Detected.					
*	11 Acenaphthene-d10	164	9.163	9.162	(1.000)	124735	200.000	
	12 Acenaphthene	153	Compound Not Detected.					
	14 Dibenzofuran	168	Compound Not Detected.					
	15 Fluorene	166	Compound Not Detected.					
*	18 Phenanthrene-d10	188	11.002	11.002	(1.000)	181797	200.000	
	19 Phenanthrene	178	11.017	11.017	(1.001)	7458	8.25358	8.25
	20 Anthracene	178	Compound Not Detected.					
	24 Fluoranthene	202	12.505	12.505	(1.137)	6859	6.96918	6.97
	25 Pyrene	202	12.780	12.780	(1.162)	6671	6.67737	6.68
	28 Benzo(a)anthracene	228	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/mL)	CONCENTRATIONS FINAL (ug/L)
* 29 Chrysene-d12	240	14.283	14.283	(1.000)	179867	200.000	
30 Chrysene	228	Compound Not Detected.					
32 Benzo(b)fluoranthene	252	15.572	15.572	(0.968)	5409	5.00025	5.00
33 Benzo(k)fluoranthene	252	Compound Not Detected.					
34 Benzo(a)pyrene	252	Compound Not Detected.					
* 35 Perylene-d12	264	16.091	16.091	(1.000)	188810	200.000	
37 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
$ 36 Dibenzo(a,h)anthracene-d14	292	17.820	17.820	(1.107)	67577	118.079	118
38 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
39 Benzo(g,h,i)perylene	276	Compound Not Detected.					

JL 3/8/10

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt2.i
Lab File ID: 030410.d
Lab Smp Id: QL58C
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt2.i/20100304.b/lowsim.m
Misc Info: 10-4798

Calibration Date: 04-MAR-2010
Calibration Time: 10:53
Client Smp ID: CB1022410Comp
Level: LOW
Sample Type: Water

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
4 Naphthalene-d8	173109	86554	346218	254033	46.75
11 Acenaphthene-d10	96677	48338	193354	124735	29.02
18 Phenanthrene-d10	147750	73875	295500	181797	23.04
29 Chrysene-d12	135219	67610	270438	179867	33.02
35 Perylene-d12	125815	62908	251630	188810	50.07

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
4 Naphthalene-d8	6.97	6.47	7.47	6.96	-0.03
11 Acenaphthene-d10	9.16	8.66	9.66	9.16	0.00
18 Phenanthrene-d10	11.00	10.50	11.50	11.00	0.00
29 Chrysene-d12	14.28	13.78	14.78	14.28	0.00
35 Perylene-d12	16.09	15.59	16.59	16.09	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Floyd/Snider
Sample Matrix: LIQUID
Lab Smp Id: QL58C
Level: LOW
Data Type: MS DATA
SpikeList File: waterlcs.spk
Sublist File: pna1mn.sub
Method File: /chem3/nt2.i/20100304.b/lowsim.m
Misc Info: 10-4798

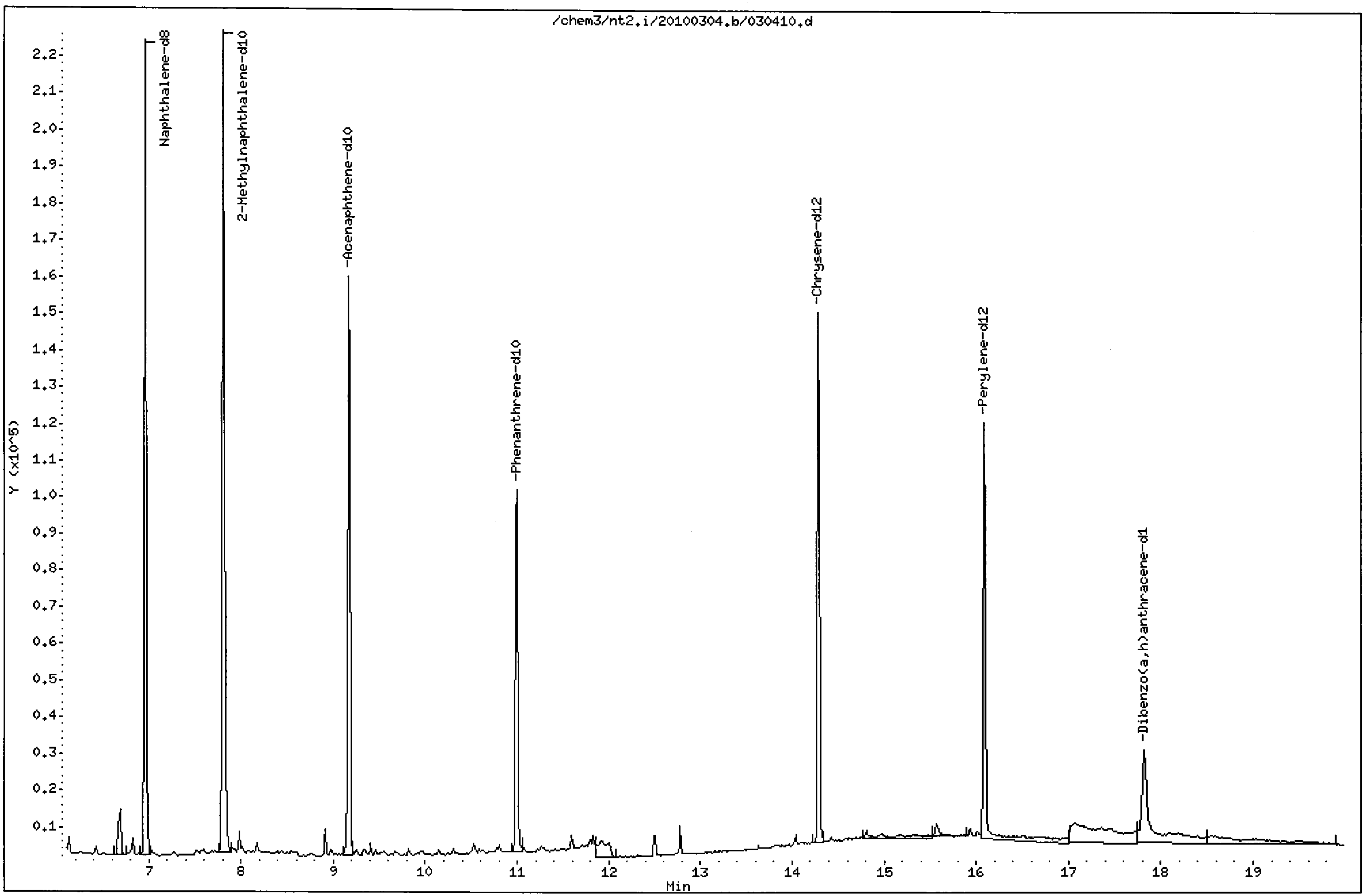
Client SDG: QL58
Fraction: SV
Client Smp ID: CB1022410Comp
Operator: VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 6 2-Methylnaphthalen	300	211	70.35	31-109
$ 36 Dibenzo(a,h)anthra	300	118	39.36	10-133

Data File: /chem3/nt2.i/20100304.b/030410.d
Date : 04-MAR-2010 15:41
Client ID: CB1022410Comp
Sample Info: QL58C
Volume Injected (uL): 2.0
Column phase: ZB-5

Instrument: nt2.i

Operator: VTS
Column diameter: 0.25



Data File: /chem3/nt2.i/20100304.b/030410.d

Date : 04-MAR-2010 15:41

Client ID: CB1022410Comp

Instrument: nt2.i

Sample Info: QL58C

Volume Injected (uL): 2.0

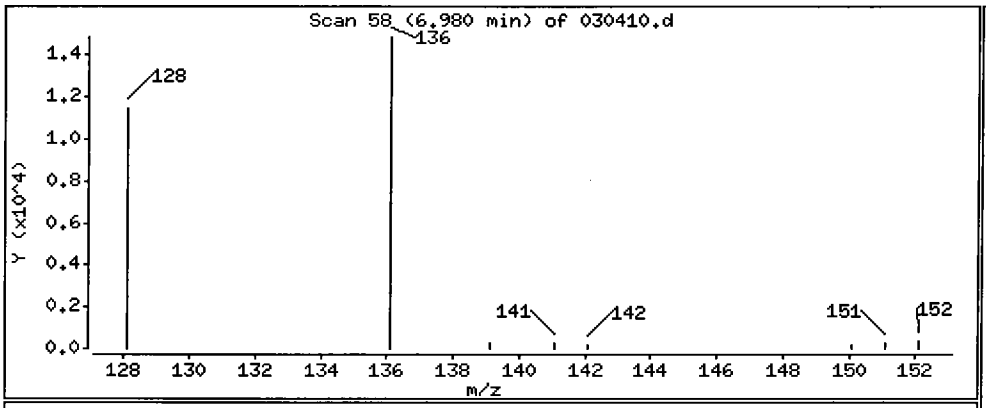
Operator: VTS

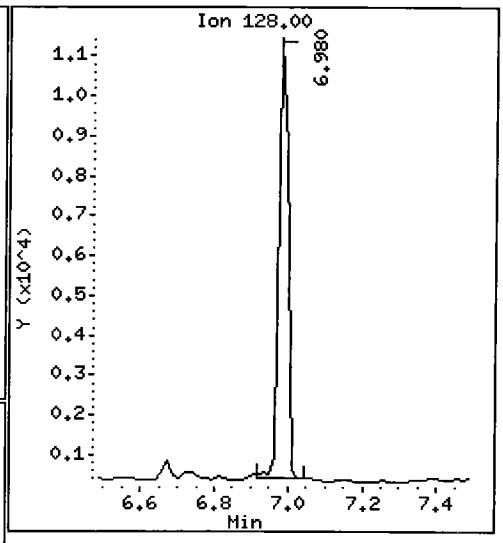
Column phase: ZB-5

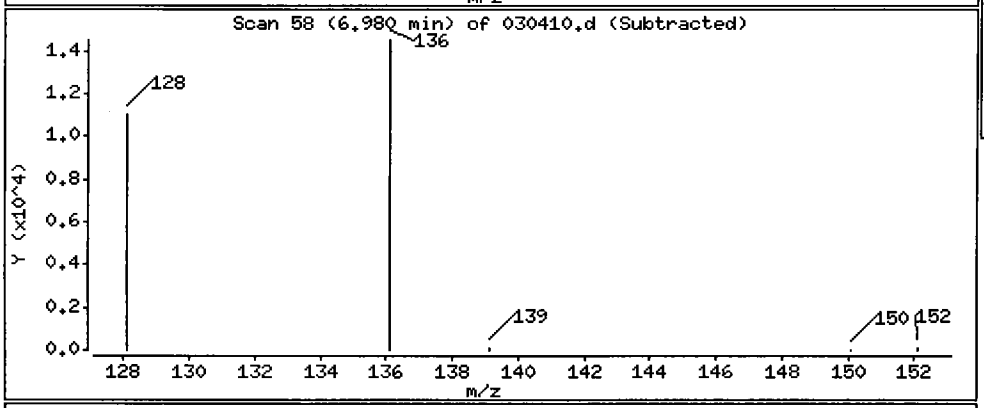
Column diameter: 0.25

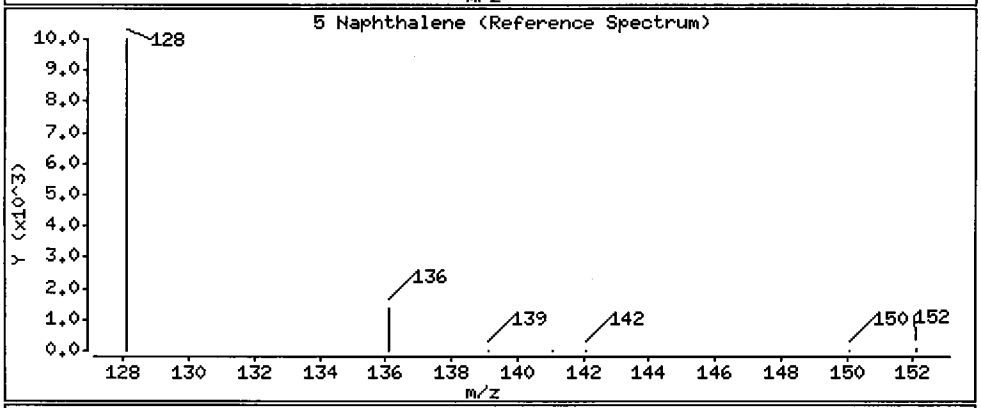
5 Naphthalene

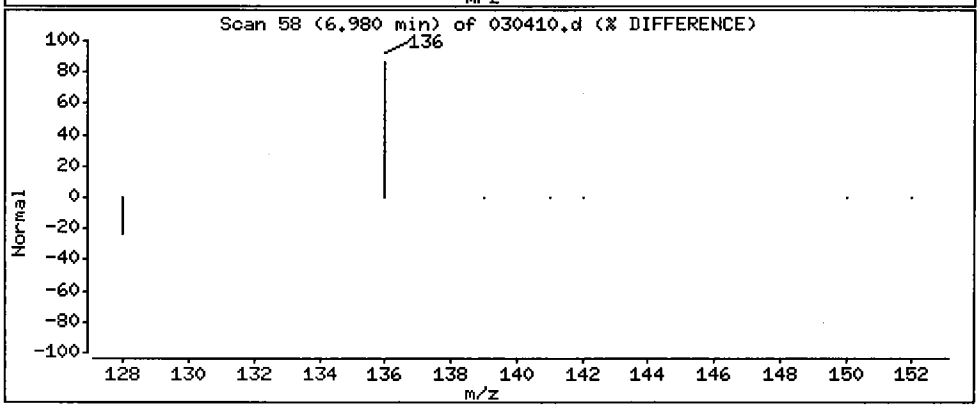
Concentration: 15.3 ug/L











ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by Low Level SW8270D-SIM GC/MS
Page 1 of 1

Sample ID: CB100022410Comp
SAMPLE

Lab Sample ID: QL58D
LIMS ID: 10-4799
Matrix: Water
Data Release Authorized:
Reported: 03/08/10

QC Report No: QL58-Floyd/Snider
Project: Lora Lake Apartments
Event: POS-LLA
Date Sampled: 02/24/10
Date Received: 02/25/10

Date Extracted: 03/01/10
Date Analyzed: 03/04/10 16:55
Instrument/Analyst: NT2/PK

Sample Amount: 500 mL
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
91-20-3	**Naphthalene**	**0.010**	**0.025**
91-57-6	**2-Methylnaphthalene**	**0.010**	**0.017**
90-12-0	1-Methylnaphthalene	0.010	< 0.010 U
208-96-8	Acenaphthylene	0.010	< 0.010 U
83-32-9	Acenaphthene	0.010	< 0.010 U
86-73-7	**Fluorene**	**0.010**	**0.010**
85-01-8	**Phenanthrene**	**0.010**	**0.069**
120-12-7	Anthracene	0.010	< 0.010 U
206-44-0	**Fluoranthene**	**0.010**	**0.13**
129-00-0	**Pyrene**	**0.010**	**0.16**
56-55-3	**Benzo(a)anthracene**	**0.010**	**0.020**
218-01-9	**Chrysene**	**0.010**	**0.074**
205-99-2	**Benzo(b)fluoranthene**	**0.010**	**0.029**
207-08-9	**Benzo(k)fluoranthene**	**0.010**	**0.029**
50-32-8	**Benzo(a)pyrene**	**0.010**	**0.027**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.010**	**0.019**
53-70-3	Dibenz(a,h)anthracene	0.010	< 0.010 U
191-24-2	**Benzo(g,h,i)perylene**	**0.010**	**0.048**
132-64-9	Dibenzofuran	0.010	< 0.010 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	68.0%
d14-Dibenzo(a,h)anthracene	72.3%

Analytical Resources, Inc.

LOW LEVEL PNAs BY SW8270D-SIM

Data file : /chem3/nt2.i/20100304.b/030413.d
Lab Smp Id: QL58D Client Smp ID: CB100022410Comp
Inj Date : 04-MAR-2010 16:55
Operator : VTS Inst ID: nt2.i
Smp Info : QL58D
Misc Info : 10-4799
Comment :
Method : /chem3/nt2.i/20100304.b/lowsim.m
Meth Date : 05-Mar-2010 11:18 peter Quant Type: ISTD
Cal Date : 21-OCT-2009 13:30 Cal File: ic102106.d
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pna1mn.sub
Target Version: 3.50
Processing Host: cserv3

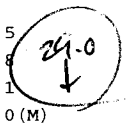
Concentration Formula: Amt * DF * Vt / Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Final Extract Volume (uL)
Vo	500.00000	Sample Volume extracted (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/mL)	CONCENTRATIONS FINAL (ug/L)
*	4 Naphthalene-d8	136	6.967	6.967	(1.000)	250336	200.000	
	5 Naphthalene	128	6.983	6.982	(1.002)	30523	25.3210	25.3
$	6 2-Methylnaphthalene-d10	152	7.813	7.813	(1.121)	131212	203.500	204
	7 2-Methylnaphthalene	142	7.844	7.844	(1.126)	12229	17.3961	17.4(M)
	8 1-Methylnaphthalene	142	7.983	7.982	(1.146)	7053	9.63968	9.64(M)
	10 Acenaphthylene	152	8.970	8.969	(0.979)	5976	6.47549	6.48(M)
*	11 Acenaphthene-d10	164	9.164	9.162	(1.000)	116616	200.000	
	12 Acenaphthene	153	Compound Not Detected.					
	14 Dibenzofuran	168	9.408	9.407	(1.027)	5161	6.91744	6.92(M)
	15 Fluorene	166	9.831	9.817	(1.073)	6370	10.3280	10.3
*	18 Phenanthrene-d10	188	11.000	11.002	(1.000)	174682	200.000	
	19 Phenanthrene	178	11.015	11.017	(1.001)	59719	68.7814	68.8
	20 Anthracene	178	11.077	11.078	(1.007)	5395	6.08084	6.08
	24 Fluoranthene	202	12.504	12.505	(1.137)	120481	127.403	127
	25 Pyrene	202	12.778	12.780	(1.162)	150994	157.294	157

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/mL)	FINAL (ug/L)
	28 Benzo(a)anthracene	228	14.271	14.261	(0.998)	18194	19.8770	19.9
*	29 Chrysene-d12	240	14.293	14.283	(1.000)	183394	200.000	
	30 Chrysene	228	14.315	14.316	(1.002)	67302	74.5249	74.5
	32 Benzo(b)fluoranthene	252	15.572	15.572	(0.967)	66953	61.8035	61.8
	33 Benzo(k)fluoranthene	252	15.572	15.595	(0.967)	63688	54.1466	54.1
	34 Benzo(a)pyrene	252	16.013	16.006	(0.995)	22933	27.0176	27.0(M)
*	35 Perylene-d12	264	16.098	16.091	(1.000)	189085	200.000	
	37 Indeno(1,2,3-cd)pyrene	276	17.874	17.873	(1.110)	18653	18.9634	19.0(M)
$	36 Dibenzo(a,h)anthracene-d14	292	17.834	17.820	(1.108)	124185	216.676	217
	38 Dibenzo(a,h)anthracene	278	17.888	17.887	(1.111)	5774	7.50478	7.50(M)
	39 Benzo(g,h,i)perylene	276	18.400	18.399	(1.143)	40265	47.4725	47.5



QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt2.i
Lab File ID: 030413.d
Lab Smp Id: QL58D
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt2.i/20100304.b/lowsim.m
Misc Info: 10-4799

Calibration Date: 04-MAR-2010
Calibration Time: 10:53
Client Smp ID: CB100022410Comp
Level: LOW
Sample Type: Water

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
4 Naphthalene-d8	173109	86554	346218	250336	44.61
11 Acenaphthene-d10	96677	48338	193354	116616	20.62
18 Phenanthrene-d10	147750	73875	295500	174682	18.23
29 Chrysene-d12	135219	67610	270438	183394	35.63
35 Perylene-d12	125815	62908	251630	189085	50.29

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
4 Naphthalene-d8	6.97	6.47	7.47	6.97	0.01
11 Acenaphthene-d10	9.16	8.66	9.66	9.16	0.01
18 Phenanthrene-d10	11.00	10.50	11.50	11.00	-0.01
29 Chrysene-d12	14.28	13.78	14.78	14.29	0.07
35 Perylene-d12	16.09	15.59	16.59	16.10	0.05

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Floyd/Snider
Sample Matrix: LIQUID
Lab Smp Id: QL58D
Level: LOW
Data Type: MS DATA
SpikeList File: waterlcs.spk
Sublist File: pna1mn.sub
Method File: /chem3/nt2.i/20100304.b/lowsim.m
Misc Info: 10-4799

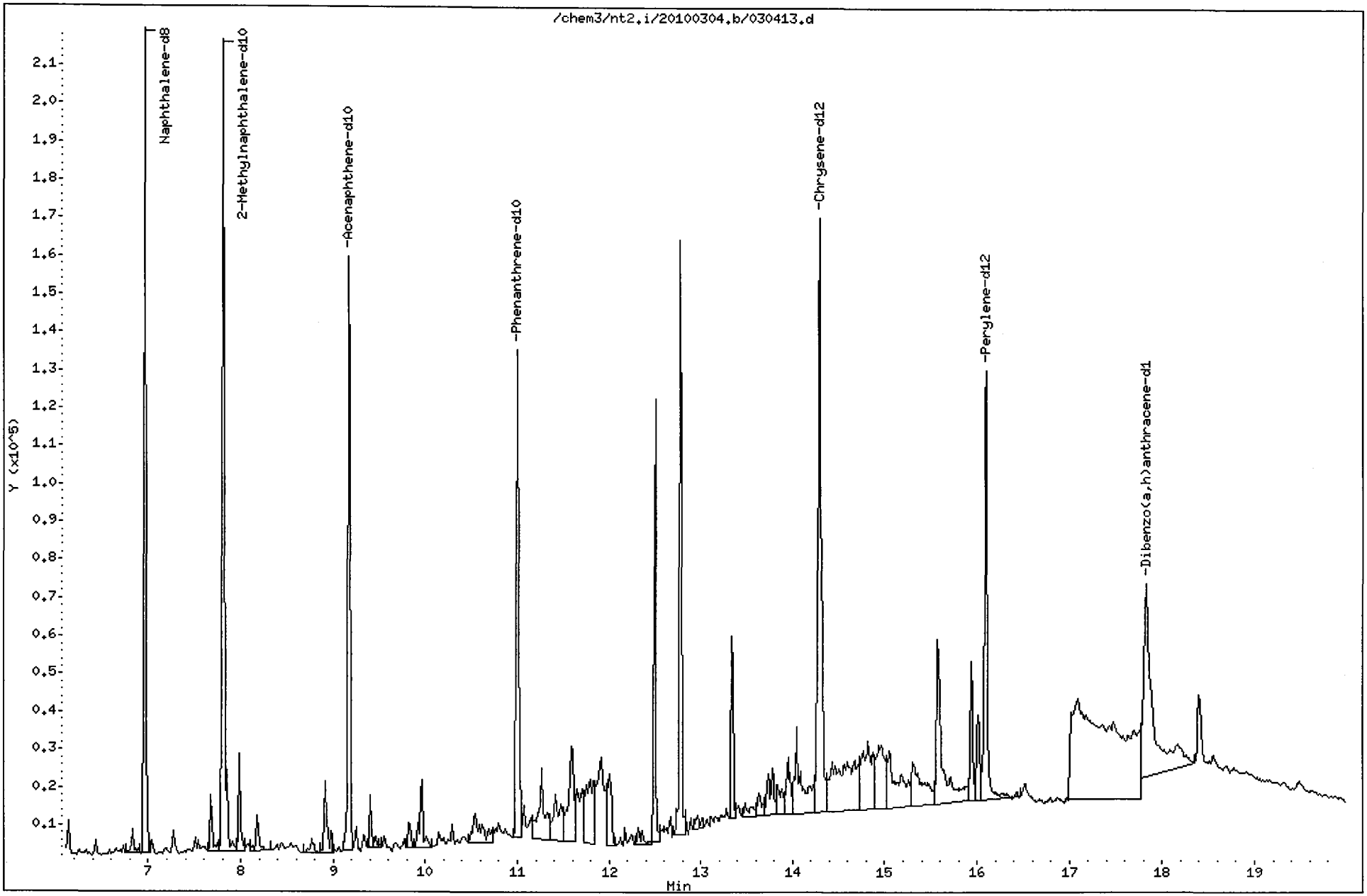
Client SDG: QL58
Fraction: SV
Client Smp ID: CB100022410Comp
Operator: VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 6 2-Methylnaphthalen	300	204	67.83	31-109
$ 36 Dibenzo(a,h)anthra	300	217	72.23	10-133

Data File: /chem3/nt2.i/20100304.b/030413.d
Date : 04-MAR-2010 16:55
Client ID: CB100022410Comp
Sample Info: QL58D
Volume Injected (uL): 2.0
Column phase: ZB-5

Instrument: nt2.i
Operator: VTS
Column diameter: 0.25

QL58:69145



Data File: /chem3/nt2.i/20100304.b/030413.d

Date : 04-MAR-2010 16:55

Client ID: CB100022410Comp

Instrument: nt2.i

Sample Info: QL58D

Volume Injected (uL): 2.0

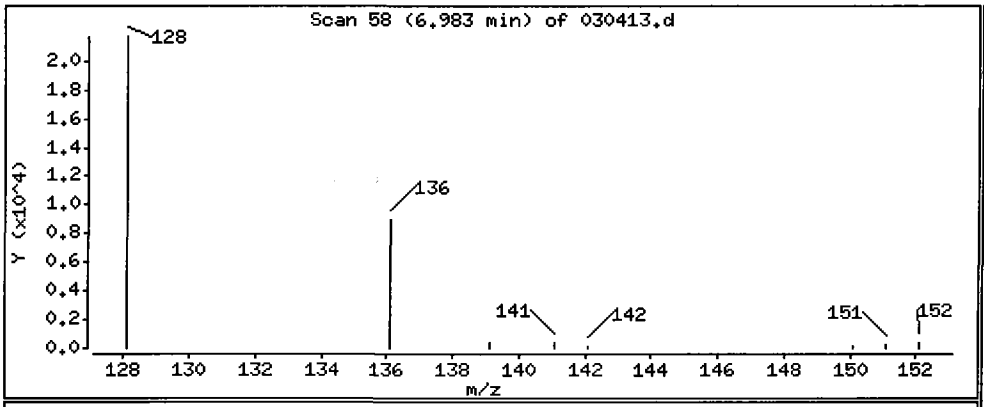
Operator: VTS

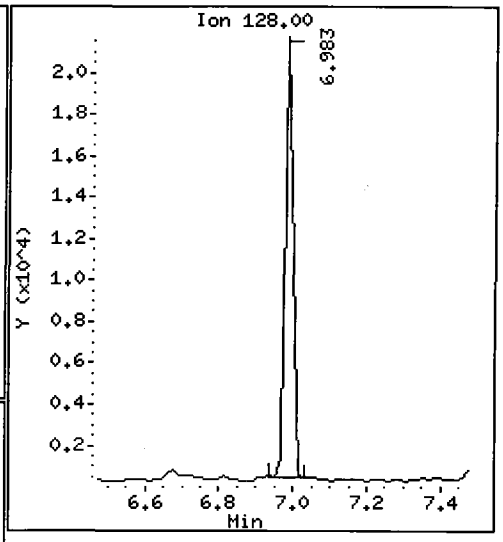
Column phase: ZB-5

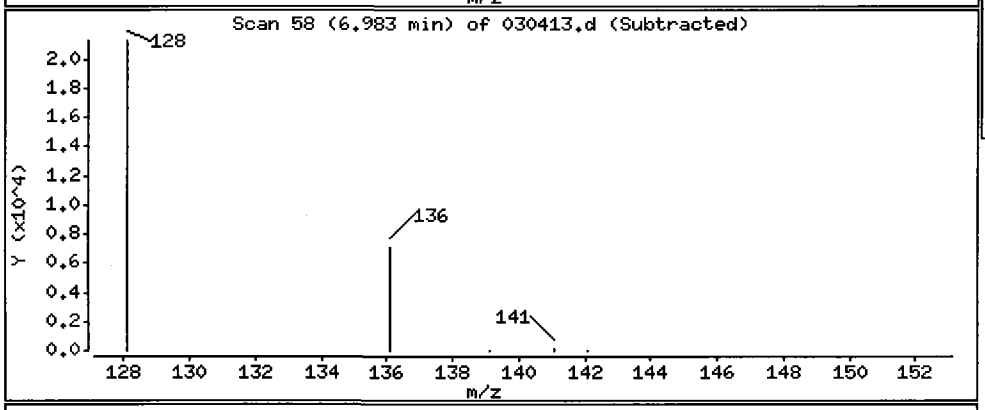
Column diameter: 0.25

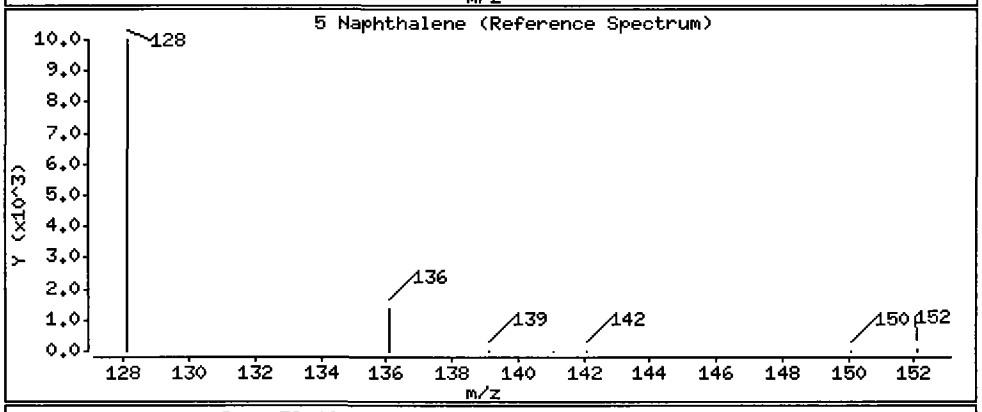
5 Naphthalene

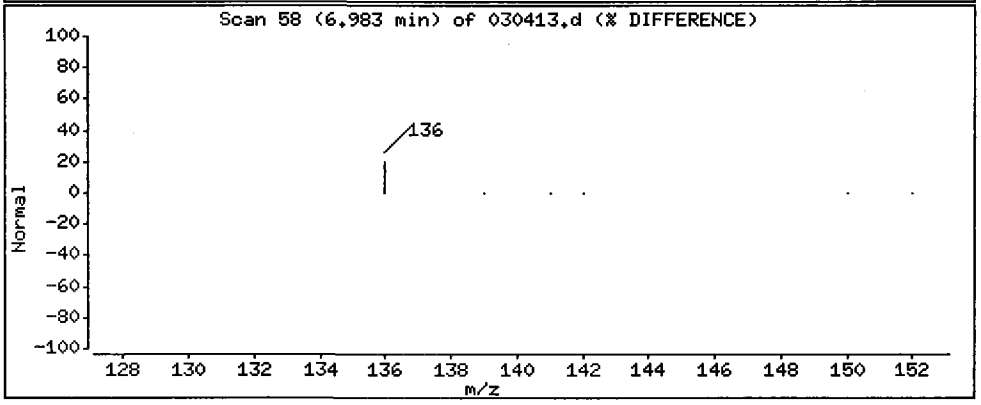
Concentration: 25.3 ug/L











Data File: /chem3/nt2.i/20100304.b/030413.d

Date : 04-MAR-2010 16:55

Client ID: CB100022410Comp

Instrument: nt2.i

Sample Info: QL58D

Volume Injected (uL): 2.0

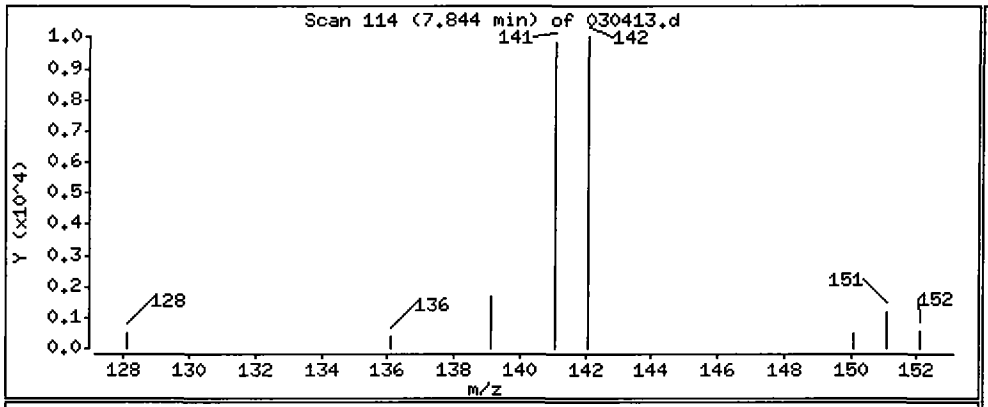
Operator: VTS

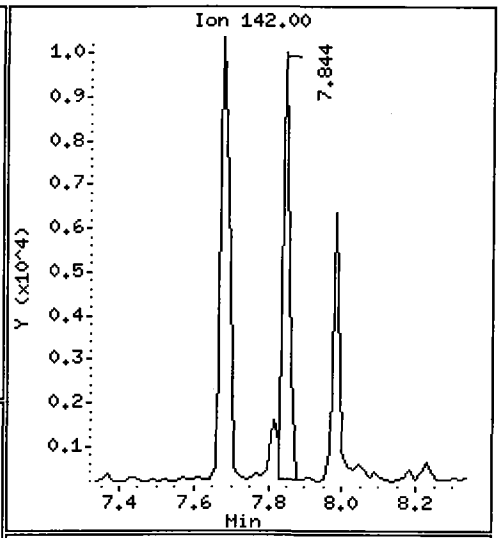
Column phase: ZB-5

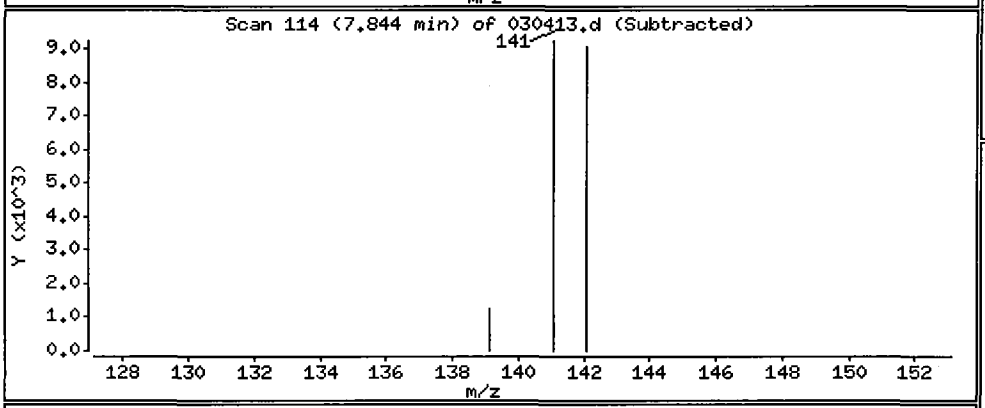
Column diameter: 0.25

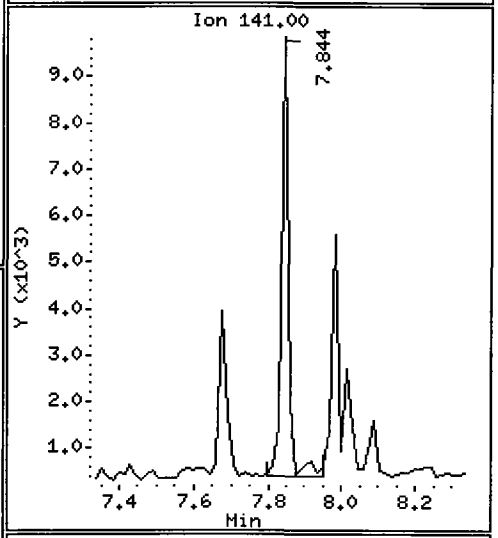
7 2-Methylnaphthalene

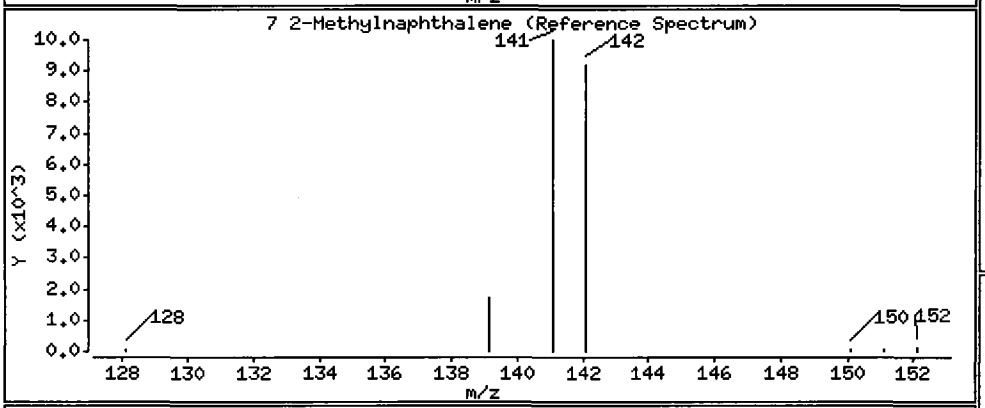
Concentration: 17.4 ug/L

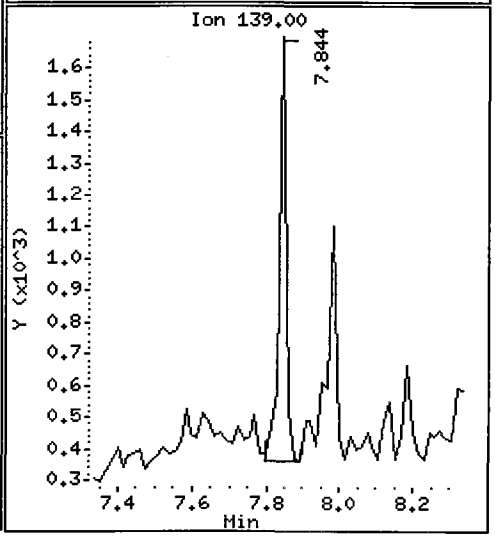


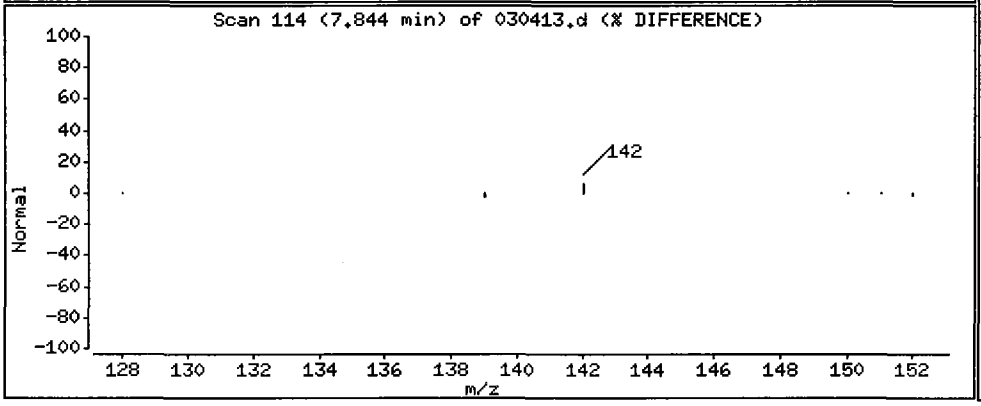












Data File: /chem3/nt2.i/20100304.b/030413.d

Date : 04-MAR-2010 16:55

Client ID: CB100022410Comp

Instrument: nt2.i

Sample Info: QL58D

Volume Injected (uL): 2.0

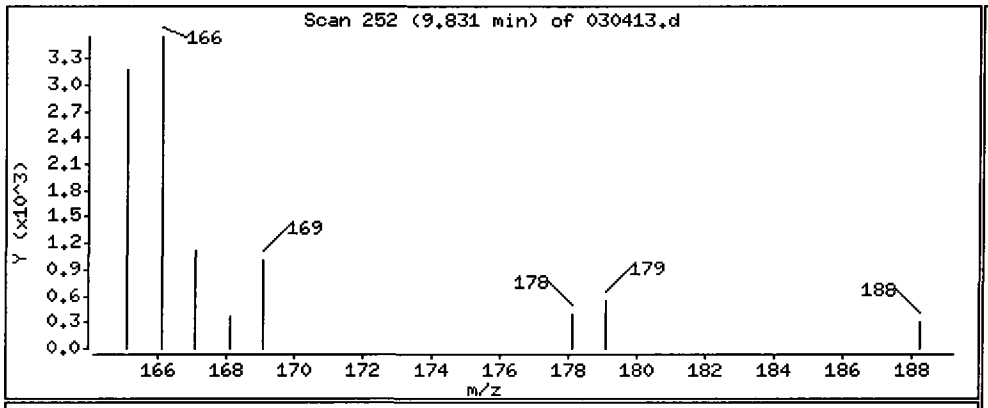
Operator: VTS

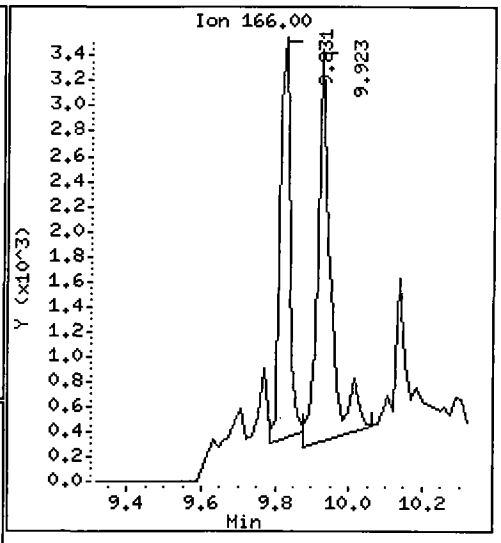
Column phase: ZB-5

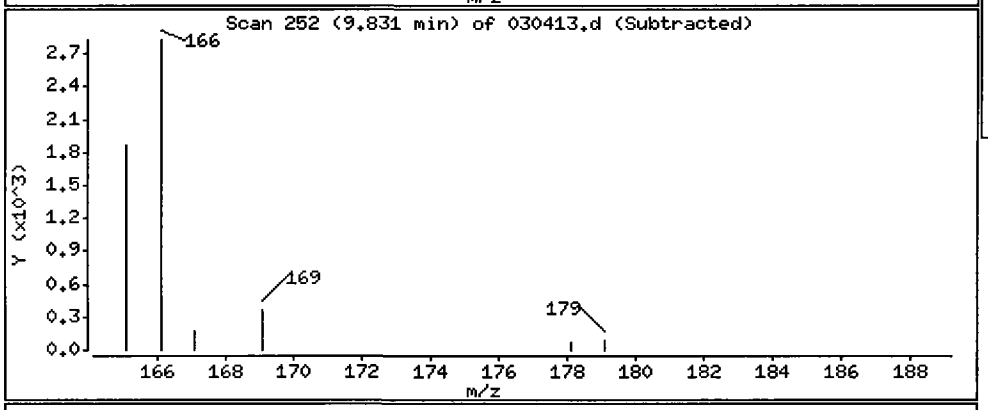
Column diameter: 0.25

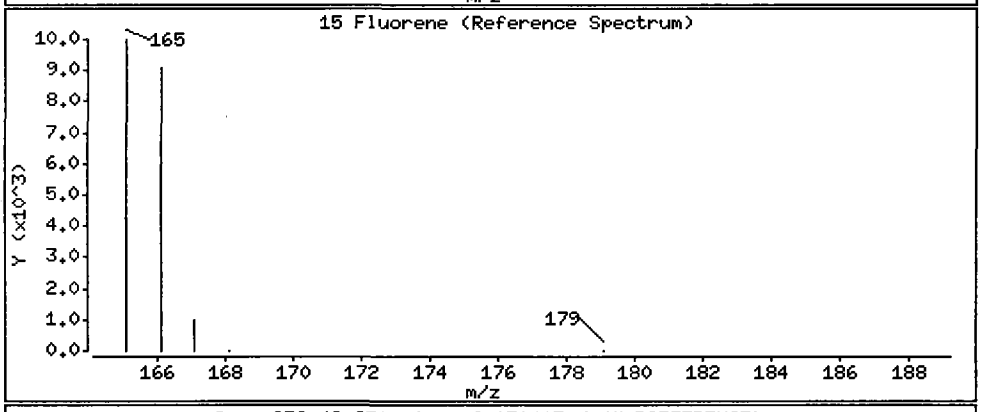
15 Fluorene

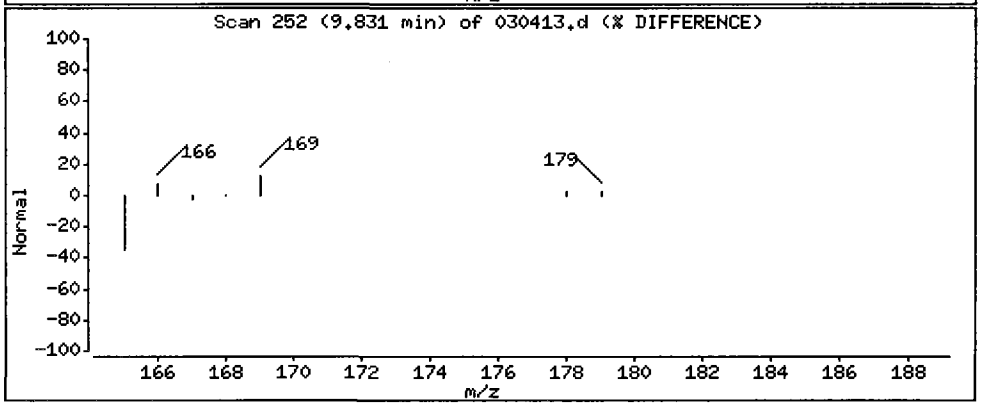
Concentration: 10.3 ug/L











Data File: /chem3/nt2.i/20100304.b/030413.d

Date : 04-MAR-2010 16:55

Client ID: CB100022410Comp

Instrument: nt2.i

Sample Info: QL58D

Volume Injected (uL): 2.0

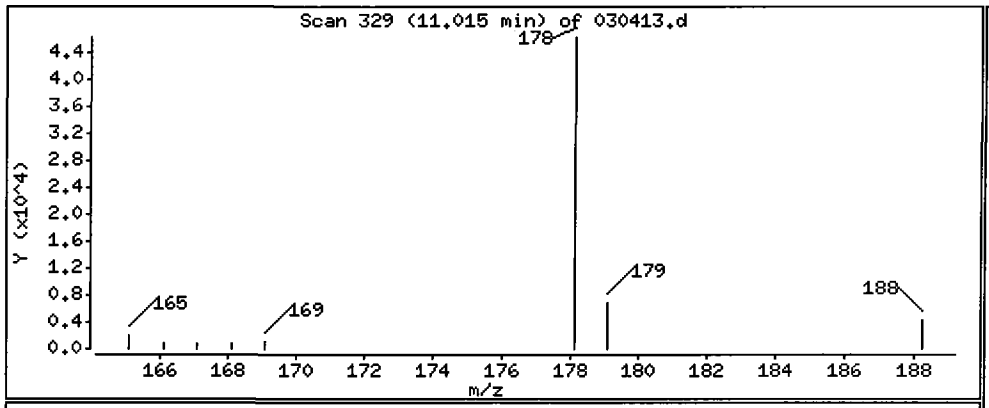
Operator: VTS

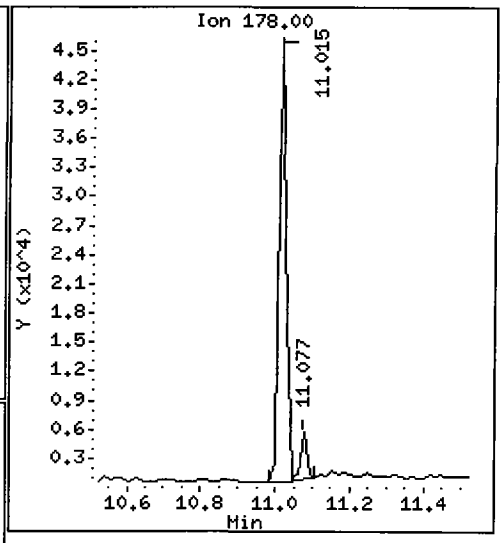
Column phase: ZB-5

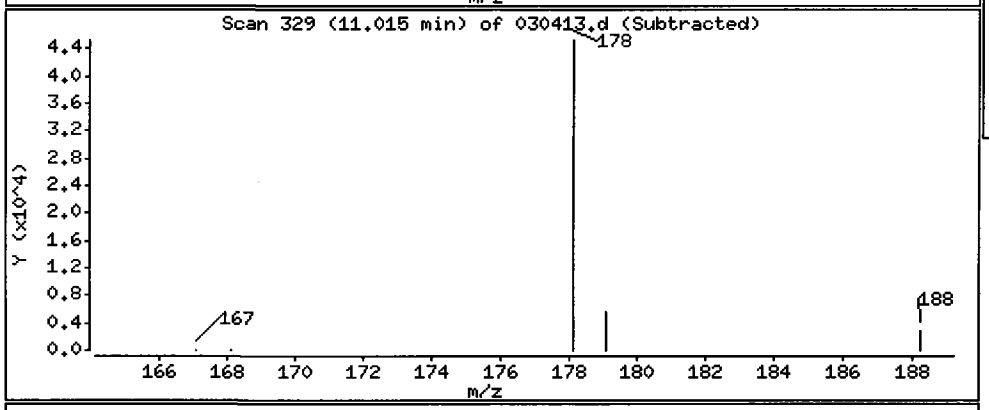
Column diameter: 0.25

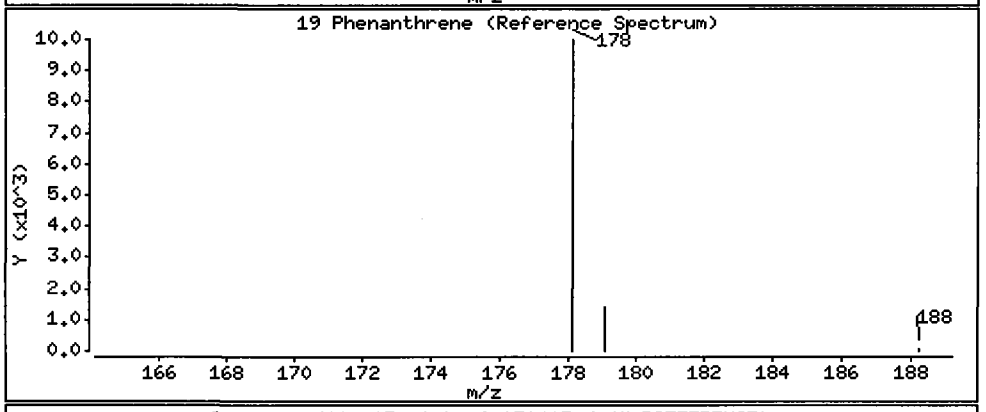
19 Phenanthrene

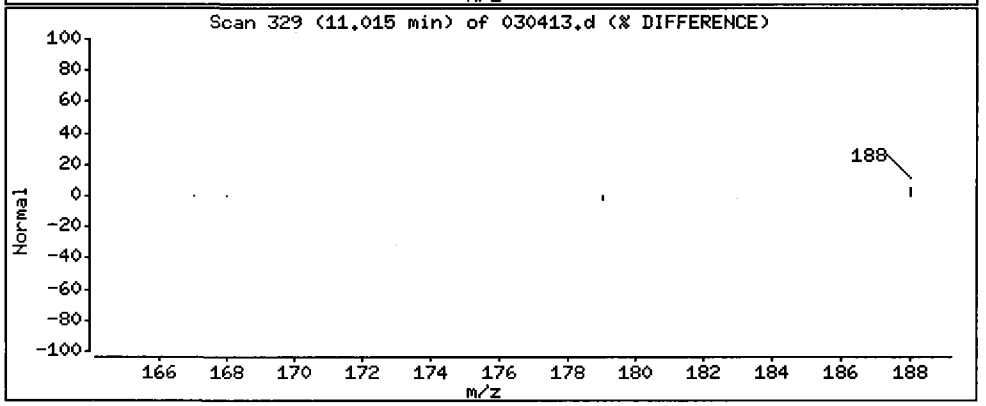
Concentration: 68.8 ug/L











Data File: /chem3/nt2.i/20100304.b/030413.d

Date : 04-MAR-2010 16:55

Client ID: CB100022410Comp

Instrument: nt2.i

Sample Info: QL58D

Volume Injected (uL): 2.0

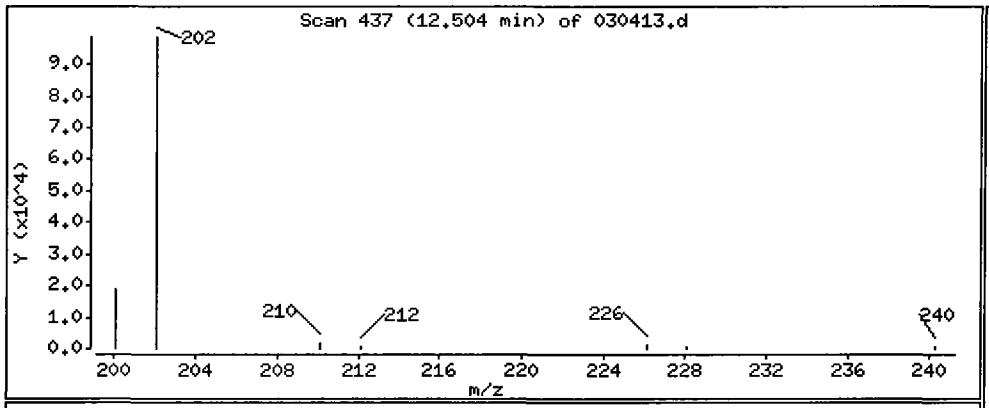
Operator: VTS

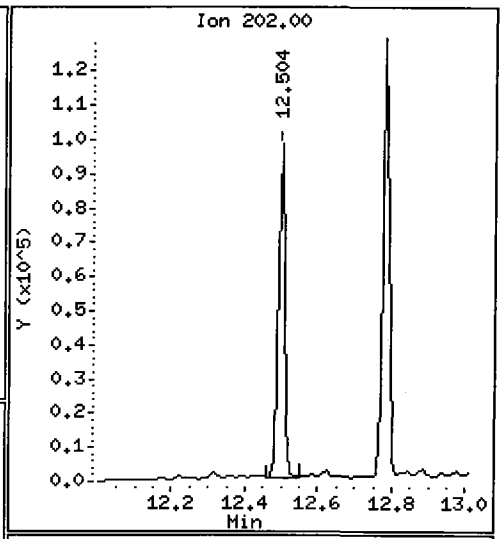
Column phase: ZB-5

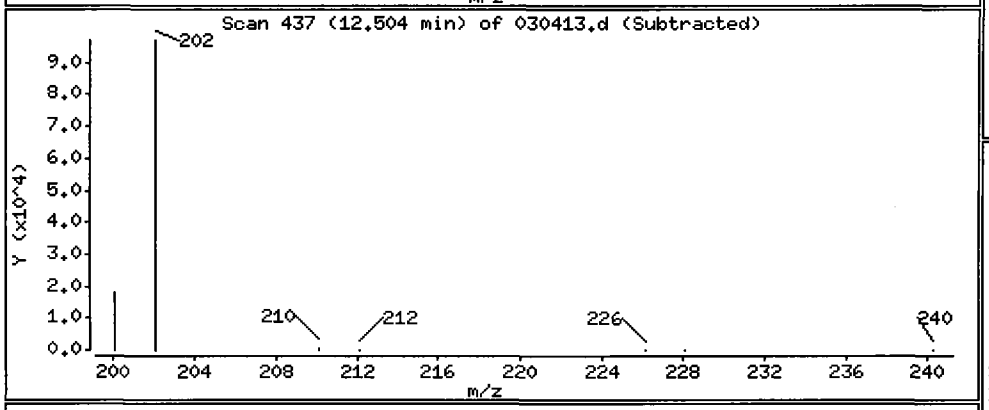
Column diameter: 0.25

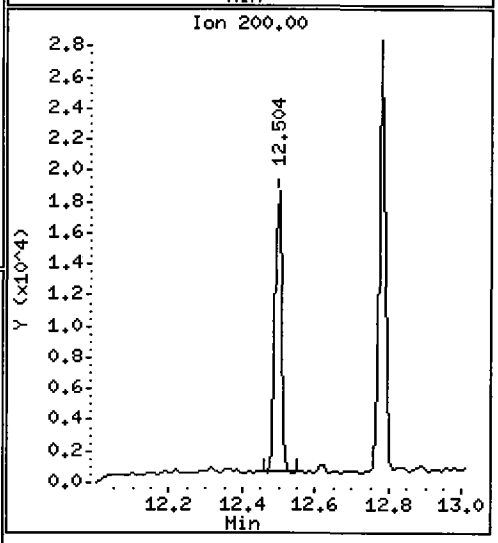
24 Fluoranthene

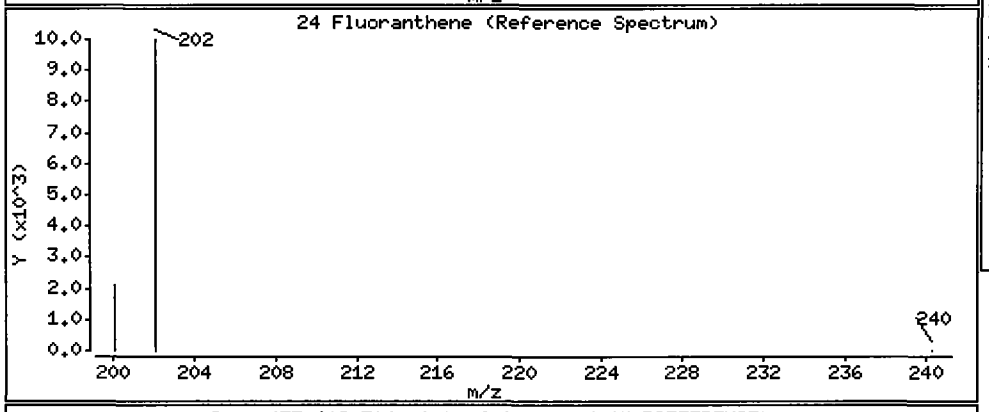
Concentration: 127 ug/L

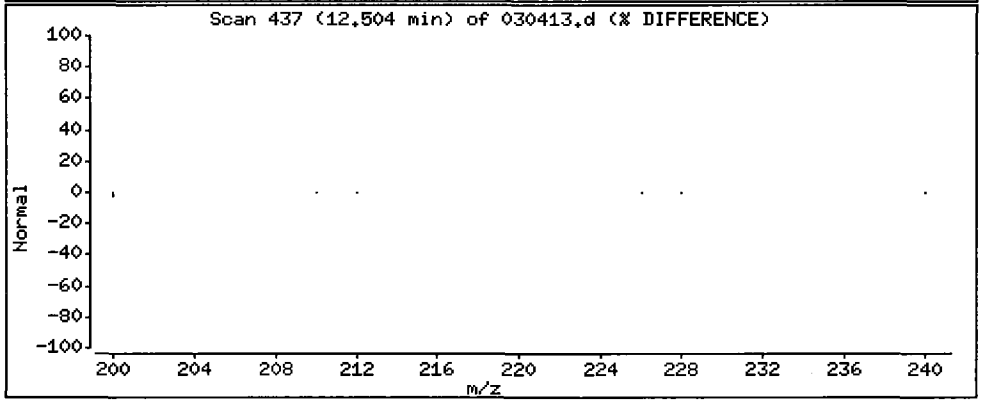












Data File: /chem3/nt2.i/20100304.b/030413.d

Date : 04-MAR-2010 16:55

Client ID: CB100022410Comp

Instrument: nt2.i

Sample Info: QL58D

Volume Injected (uL): 2.0

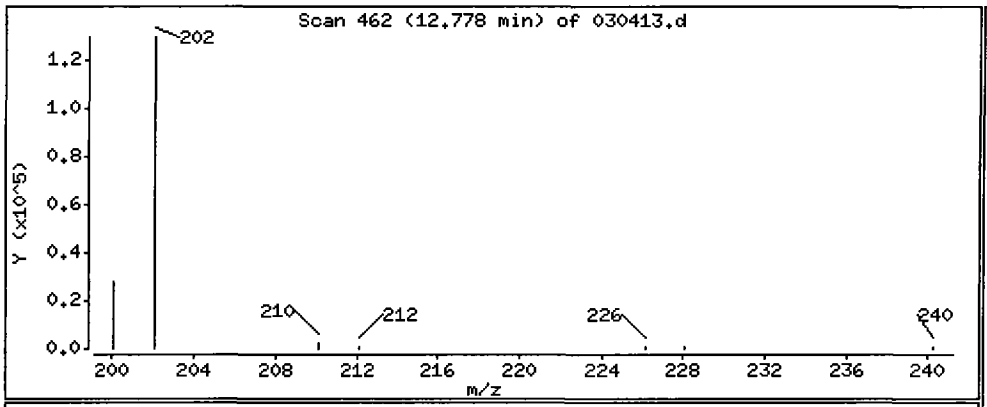
Operator: VTS

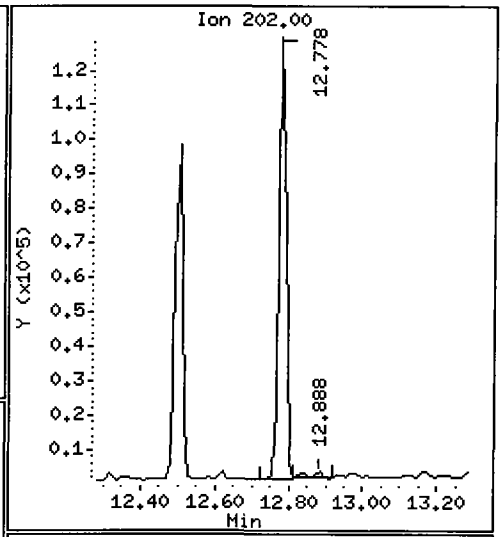
Column phase: ZB-5

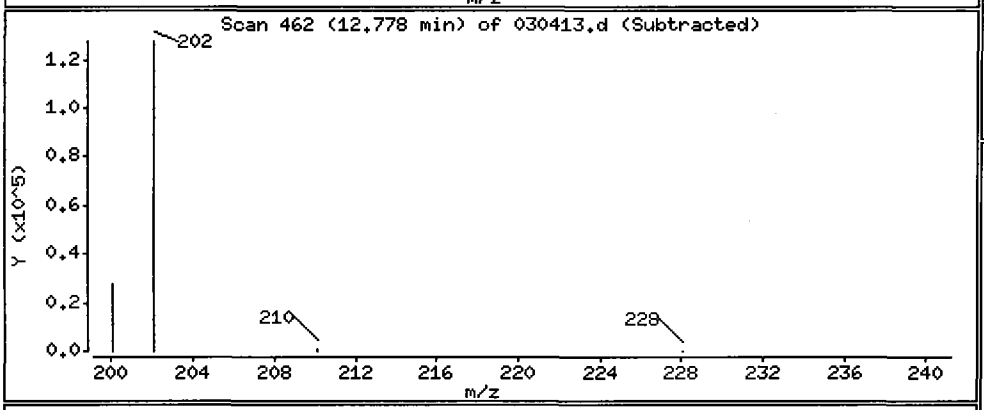
Column diameter: 0.25

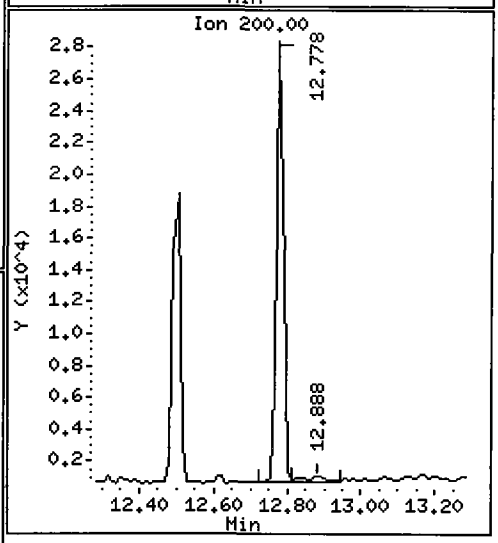
25 Pyrene

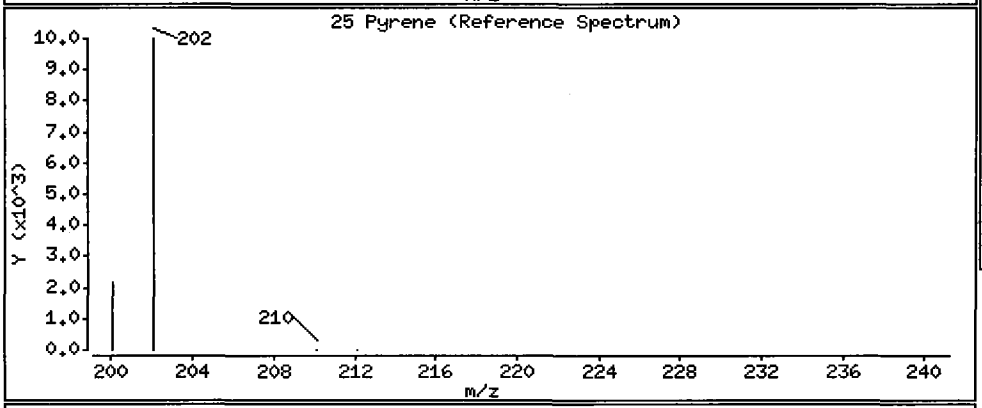
Concentration: 157 ug/L

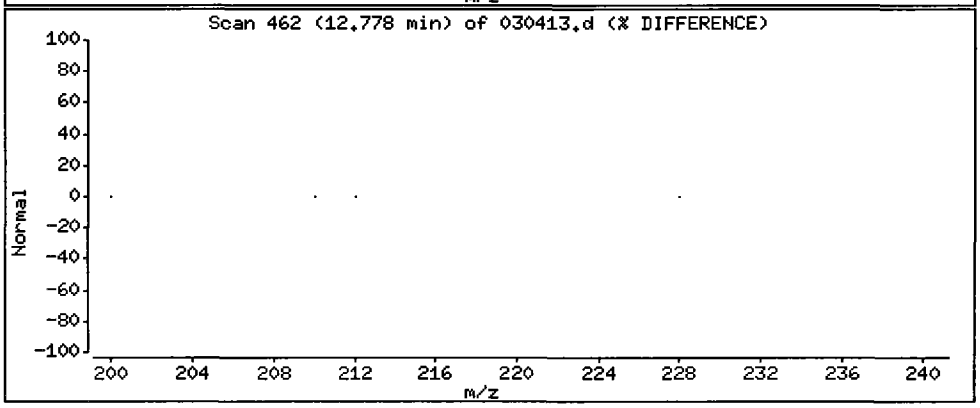












Data File: /chem3/nt2.i/20100304.b/030413.d

Date : 04-MAR-2010 16:55

Client ID: CB100022410Comp

Instrument: nt2.i

Sample Info: QL58D

Volume Injected (uL): 2.0

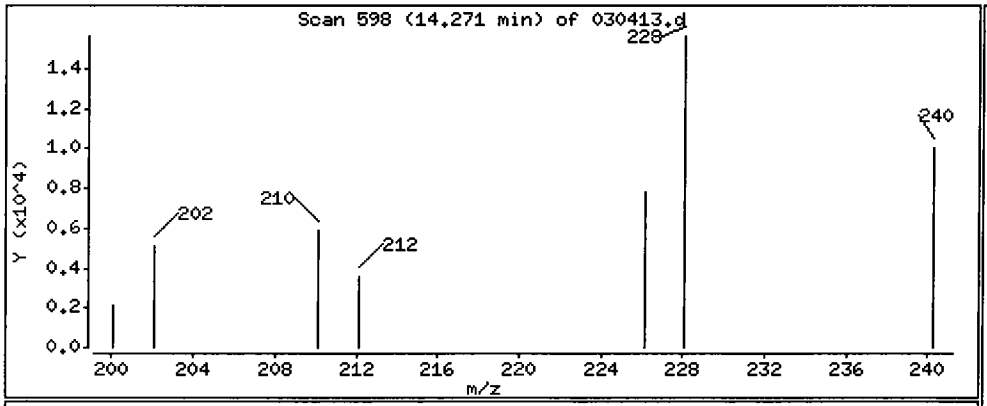
Operator: VTS

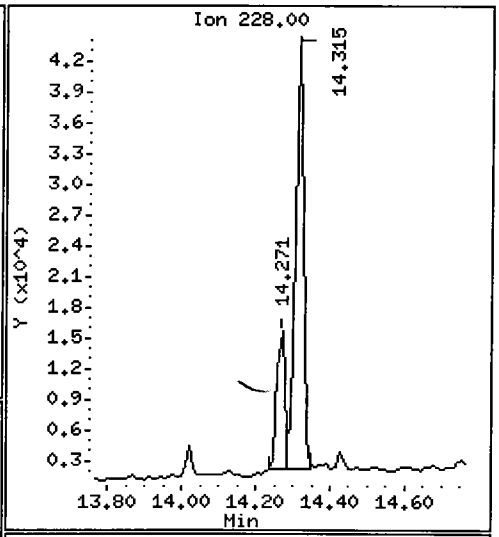
Column phase: ZB-5

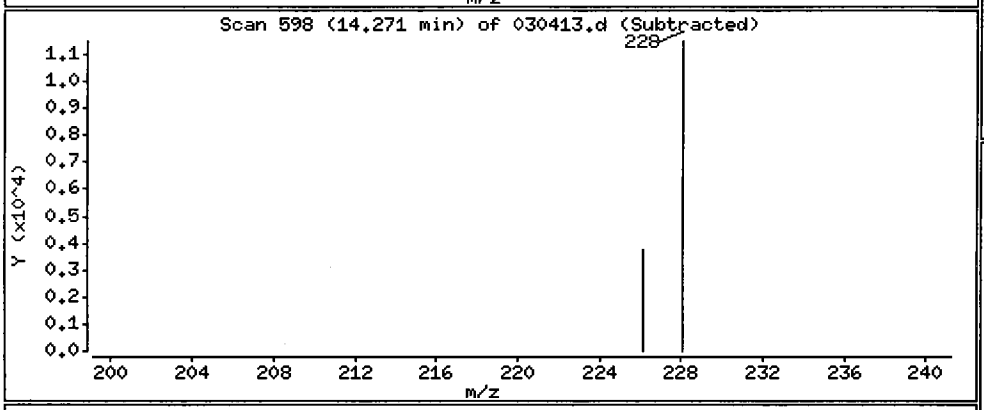
Column diameter: 0.25

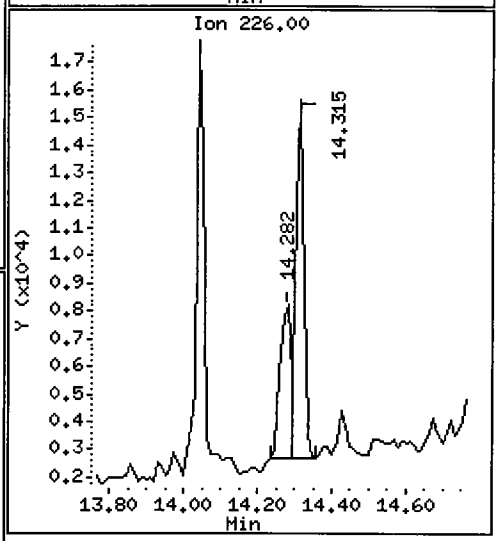
28 Benzo(a)anthracene

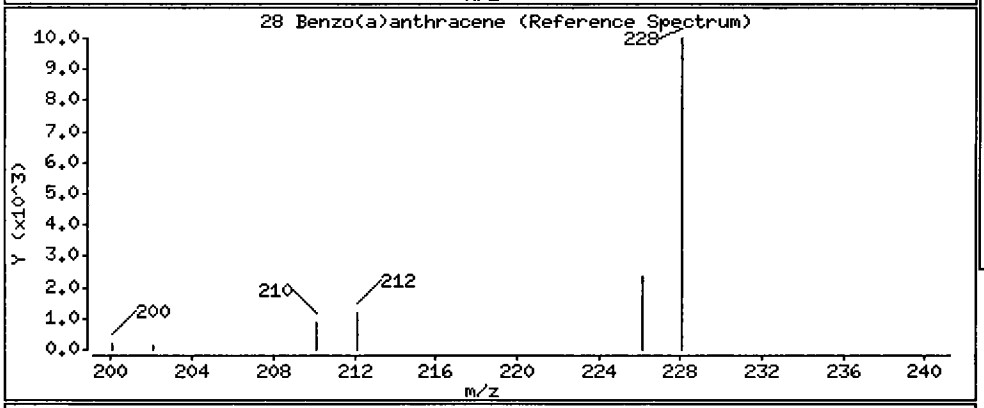
Concentration: 19.9 ug/L

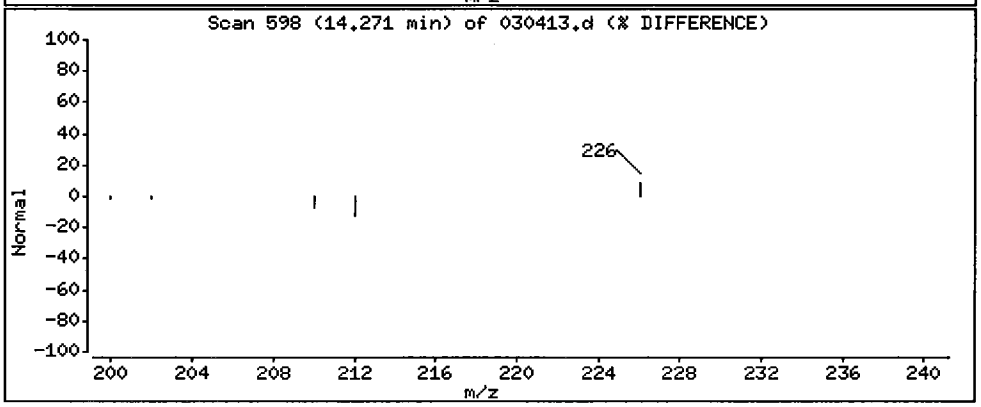












Data File: /chem3/nt2.i/20100304.b/030413.d

Date : 04-MAR-2010 16:55

Client ID: CB100022410Comp

Instrument: nt2.i

Sample Info: QL58D

Volume Injected (uL): 2.0

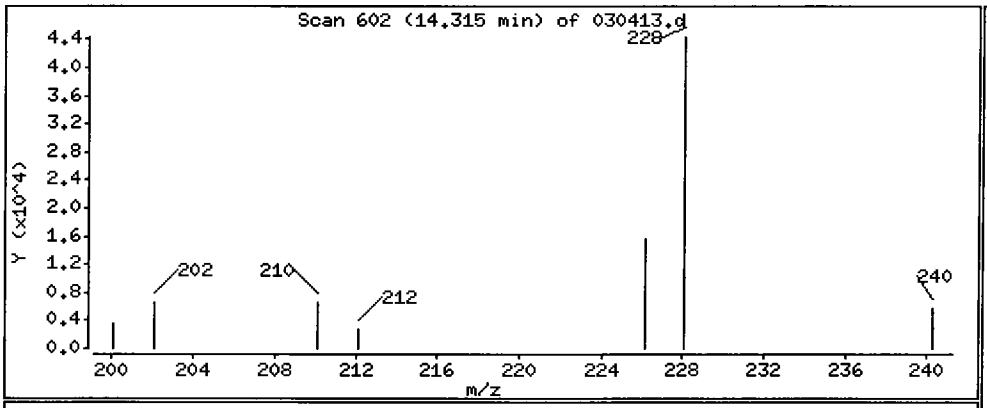
Operator: VTS

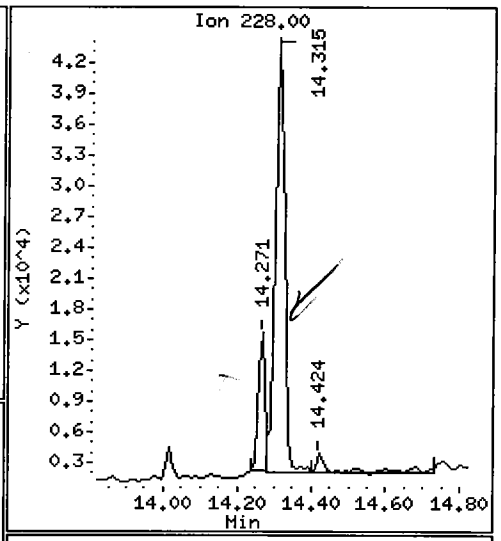
Column phase: ZB-5

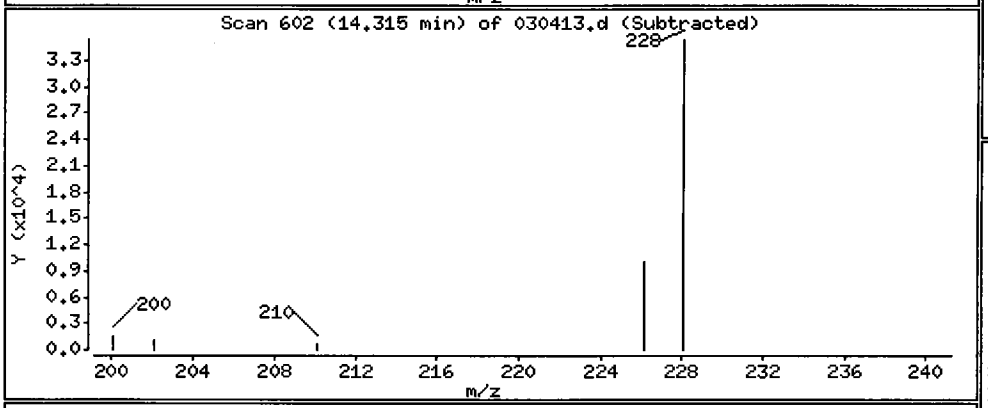
Column diameter: 0.25

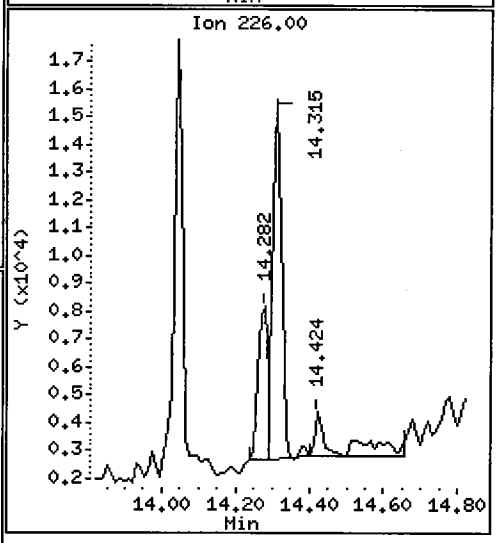
30 Chrysene

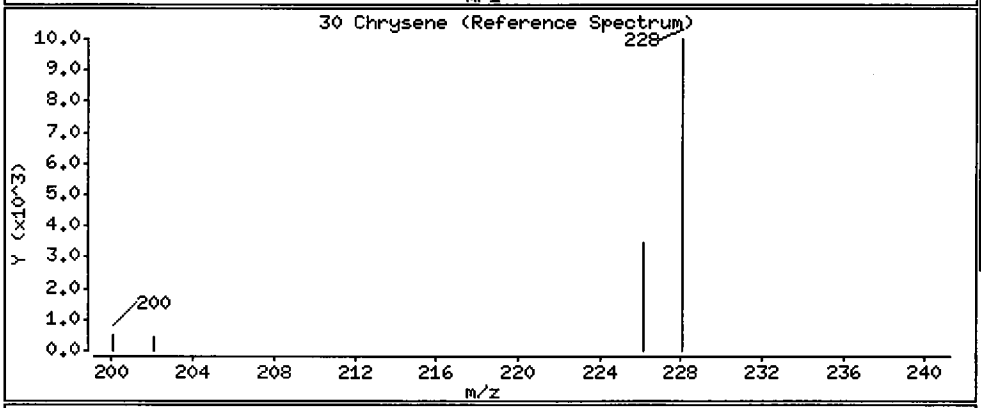
Concentration: 74.5 ug/L

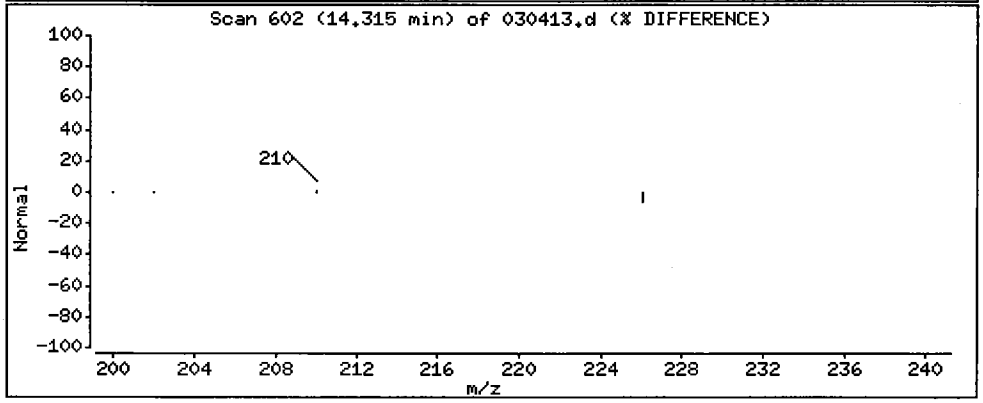












Data File: /chem3/nt2.i/20100304.b/030413.d

Date : 04-MAR-2010 16:55

Client ID: CB100022410Comp

Instrument: nt2.i

Sample Info: QL58D

Volume Injected (uL): 2.0

Operator: VTS

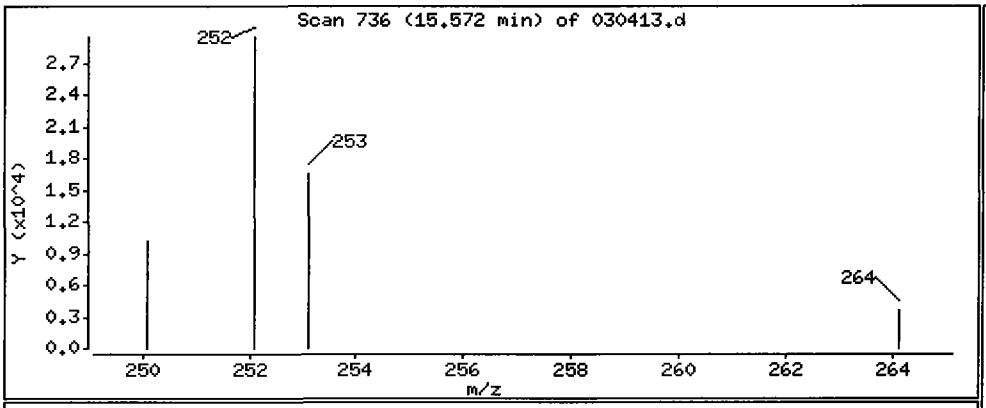
Column phase: ZB-5

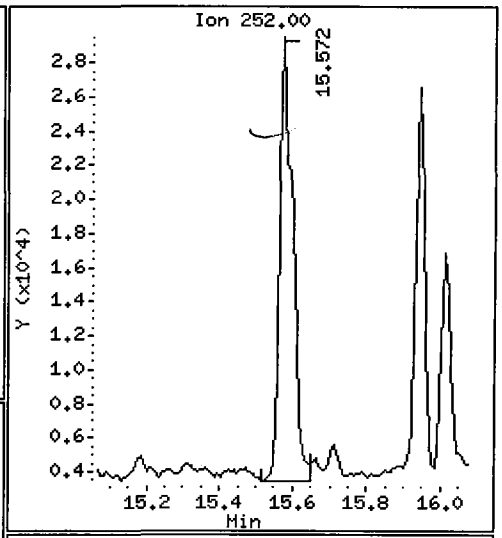
Column diameter: 0.25

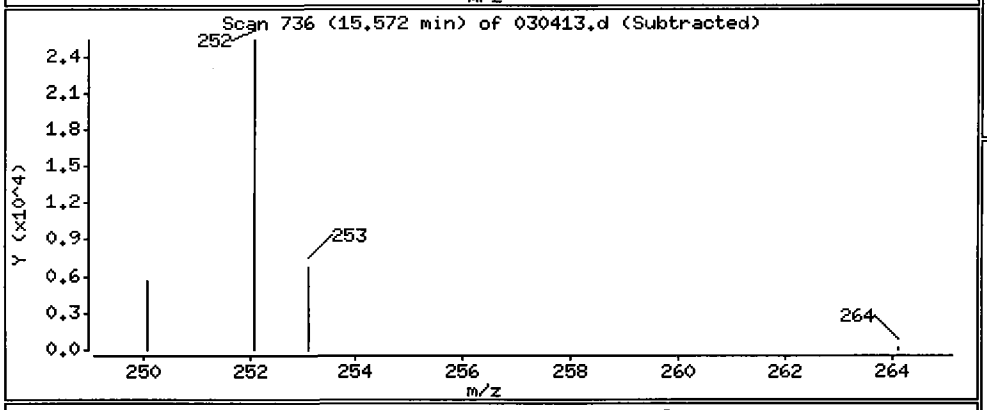
1/2

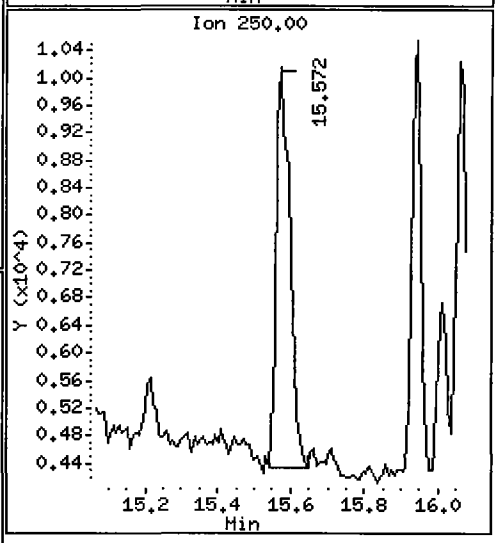
32 Benzo(b)fluoranthene

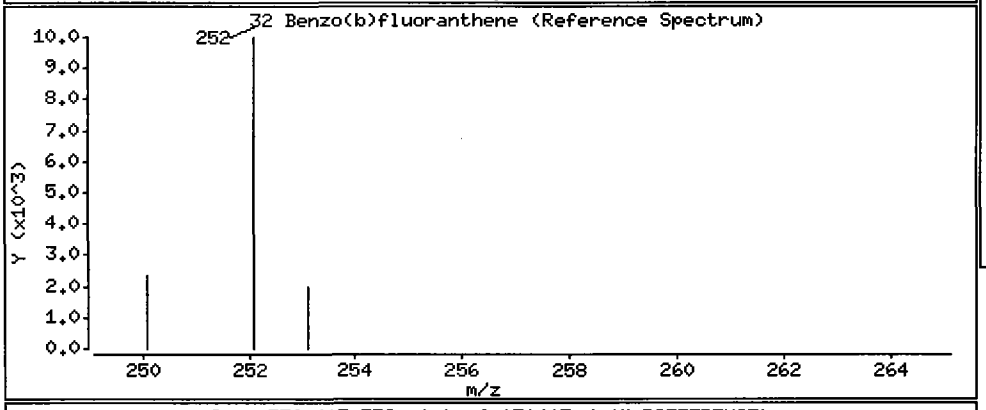
Concentration: 61.8 ug/L

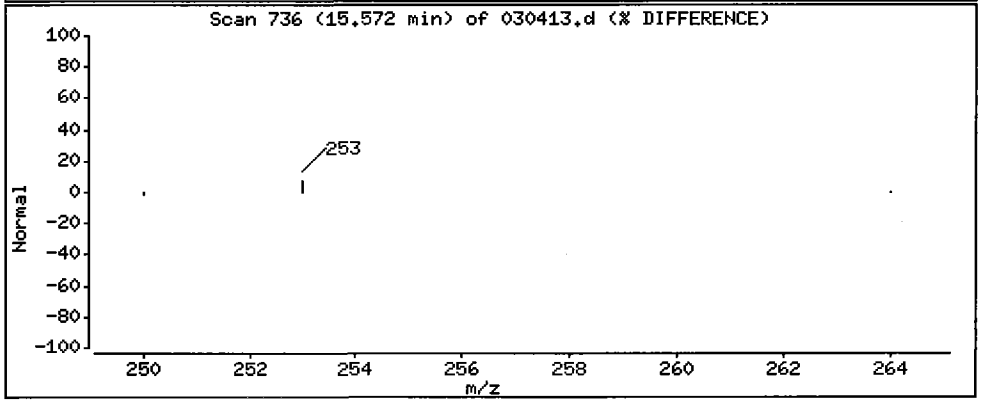












Data File: /chem3/nt2.i/20100304.b/030413.d

Date : 04-MAR-2010 16:55

Client ID: CB100022410Comp

Instrument: nt2.i

Sample Info: QL58D

Volume Injected (uL): 2.0

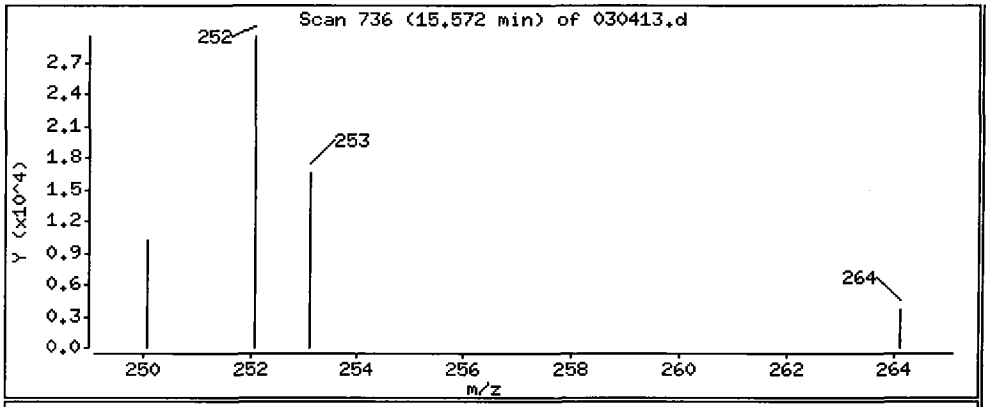
Operator: VTS

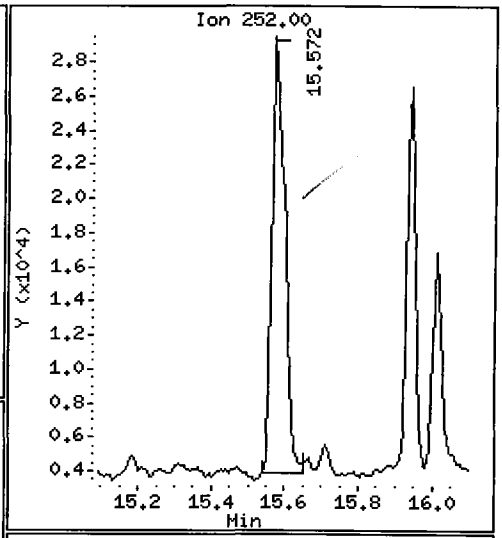
Column phase: ZB-5

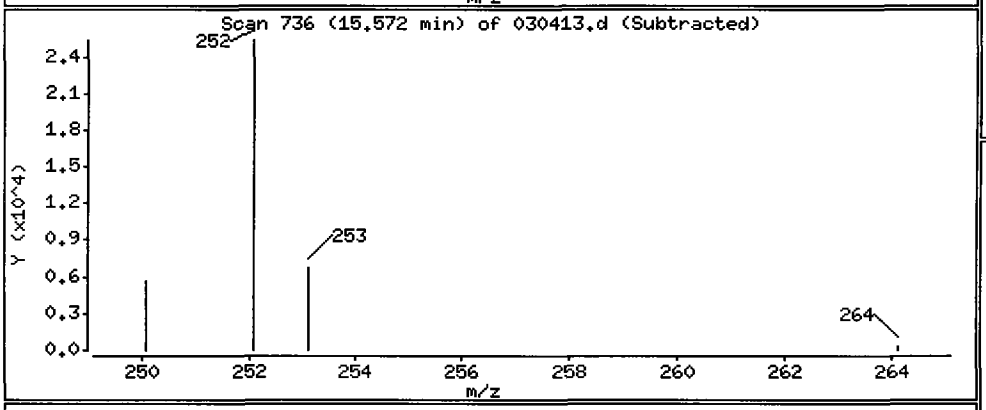
Column diameter: 0.25

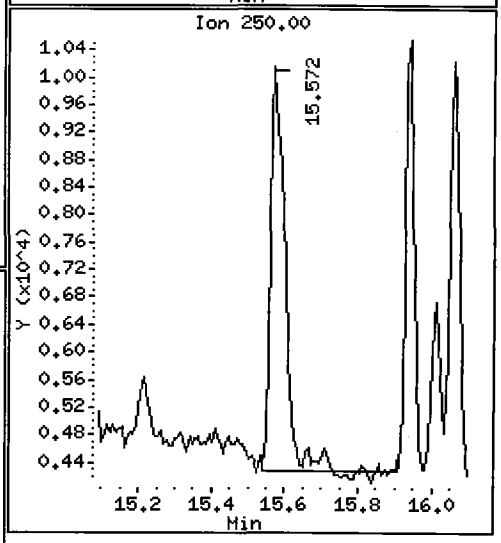
33 Benzo(k)fluoranthene

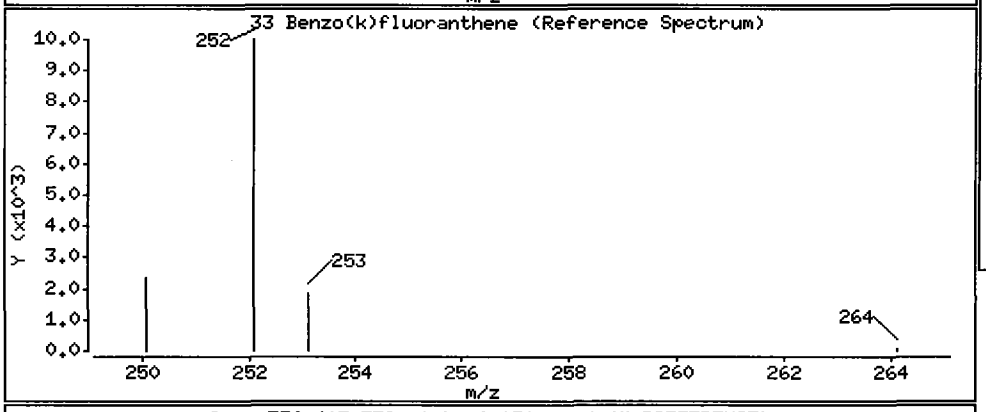
Concentration: 54.1 ug/L

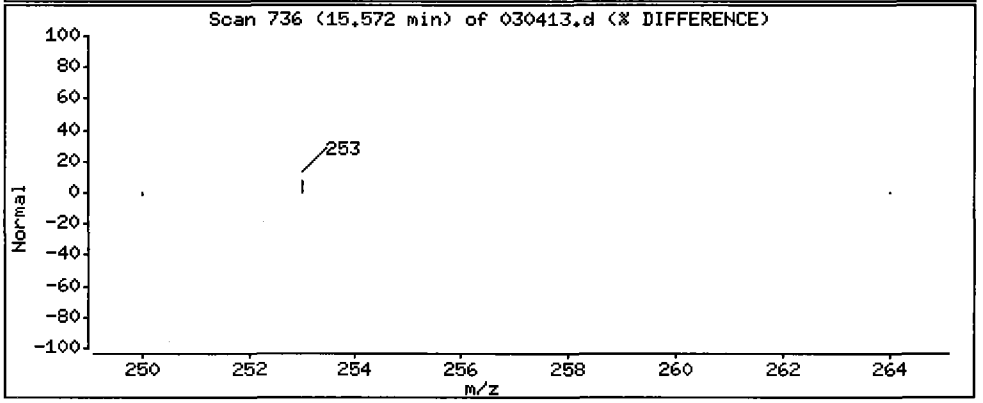












Data File: /chem3/nt2.i/20100304.b/030413.d

Date : 04-MAR-2010 16:55

Client ID: CB100022410Comp

Instrument: nt2.i

Sample Info: QL58D

Volume Injected (uL): 2.0

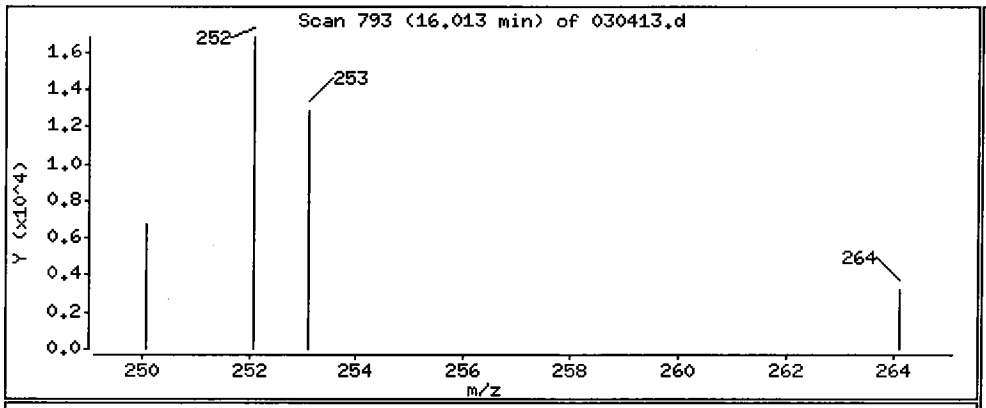
Operator: VTS

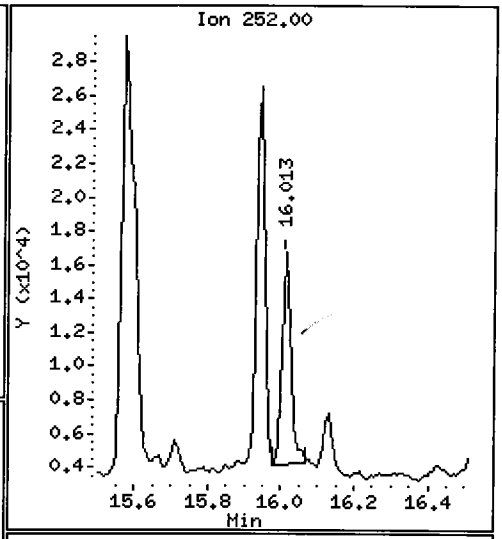
Column phase: ZB-5

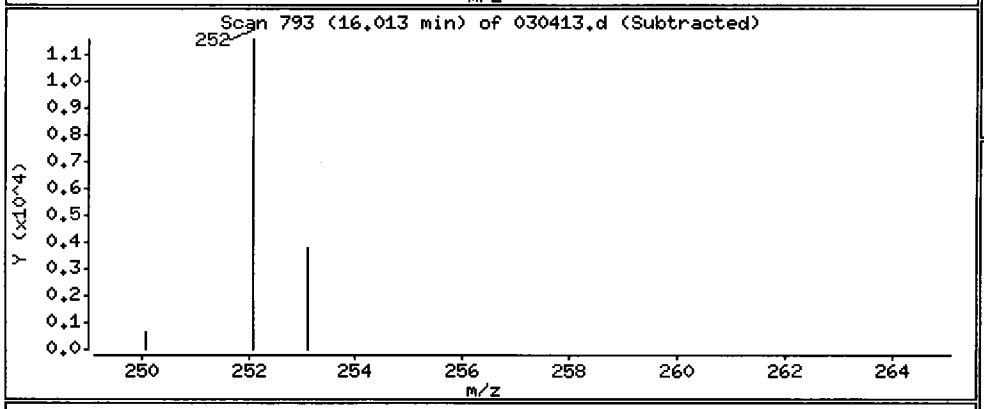
Column diameter: 0.25

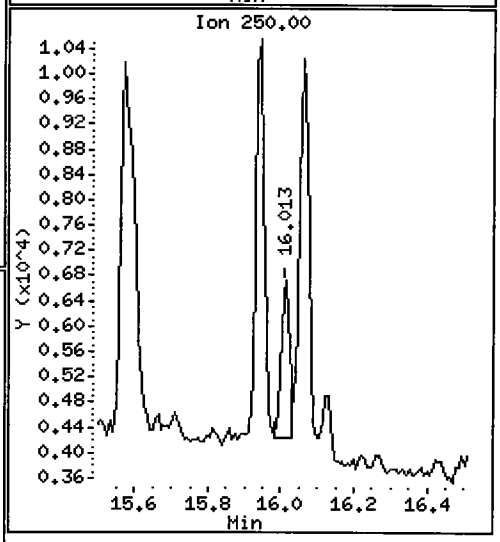
34 Benzo(a)pyrene

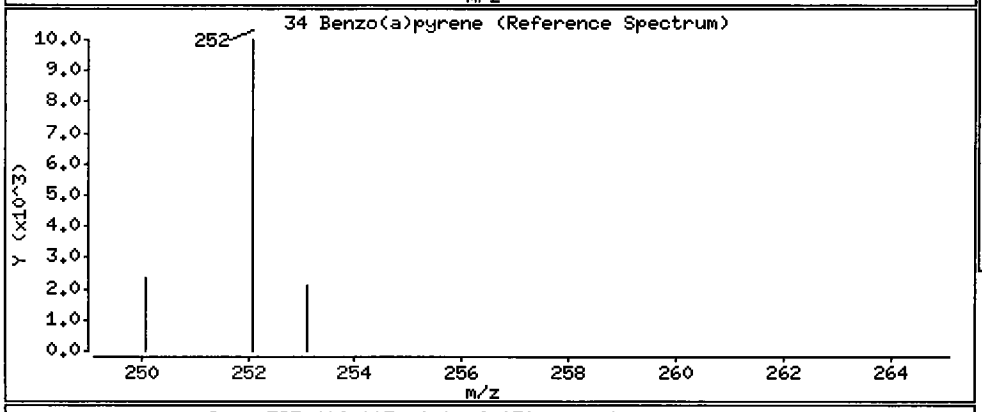
Concentration: 27.0 ug/L

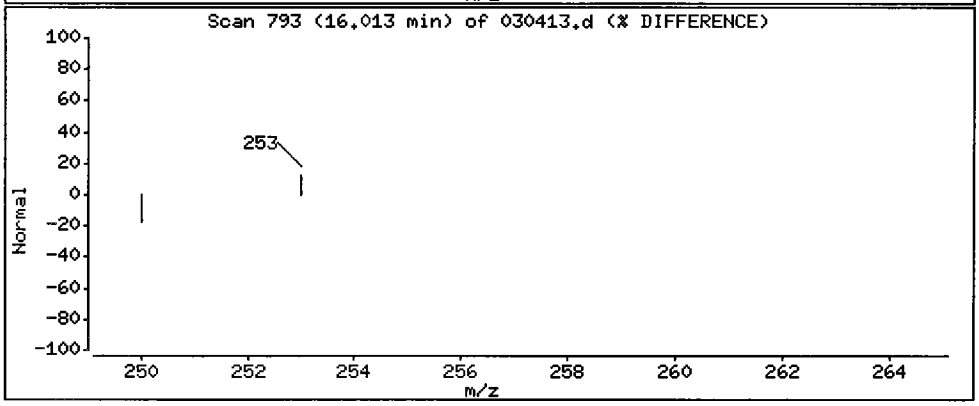












Data File: /chem3/nt2.i/20100304.b/030413.d

Date : 04-MAR-2010 16:55

Client ID: CB100022410Comp

Instrument: nt2.i

Sample Info: QL58D

Volume Injected (uL): 2.0

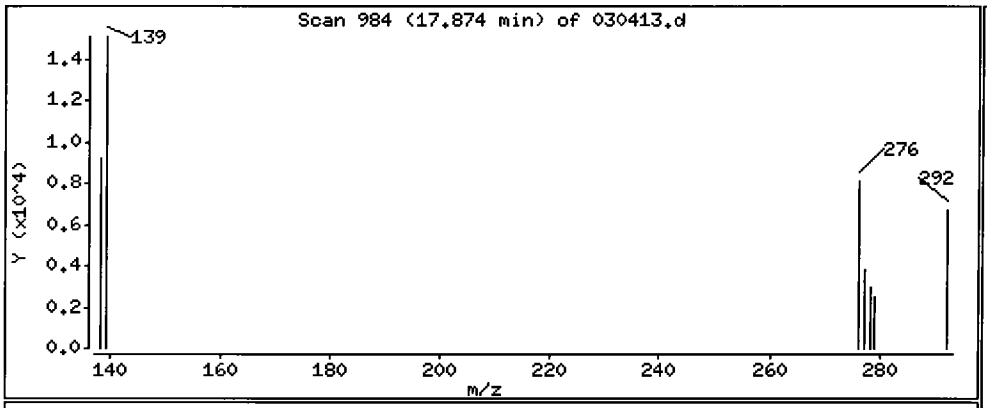
Operator: VTS

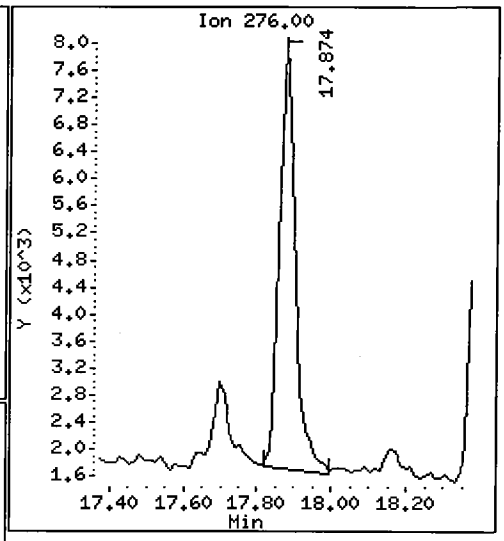
Column phase: ZB-5

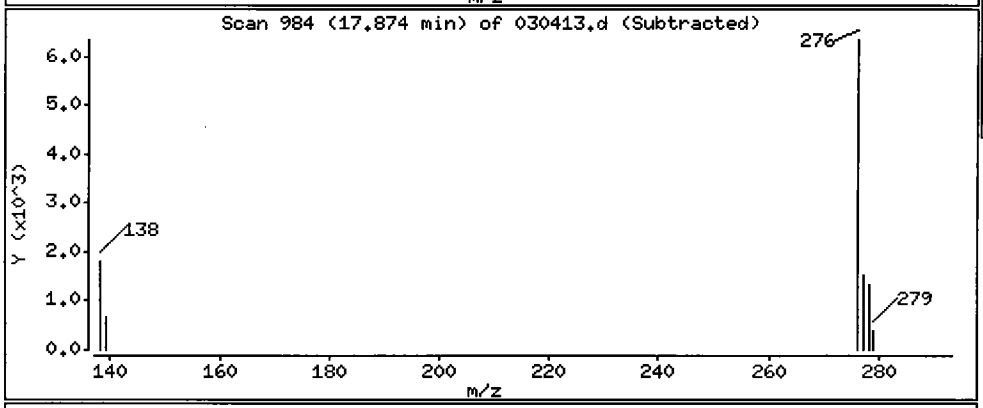
Column diameter: 0.25

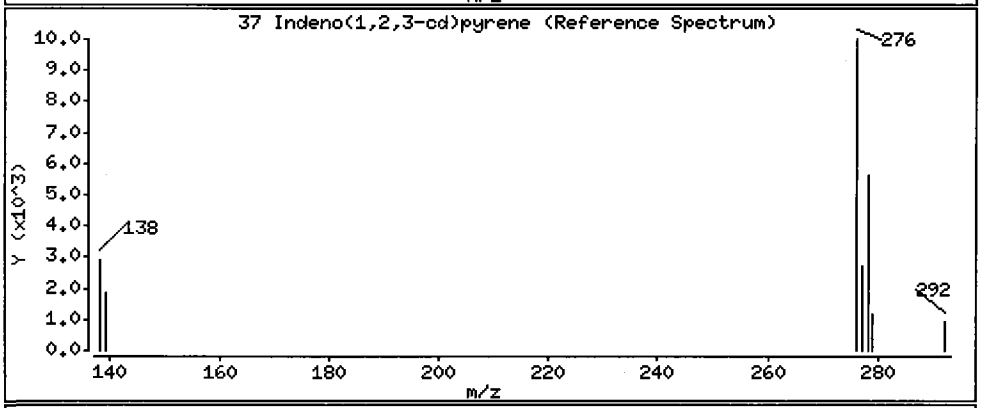
37 Indeno(1,2,3-cd)pyrene

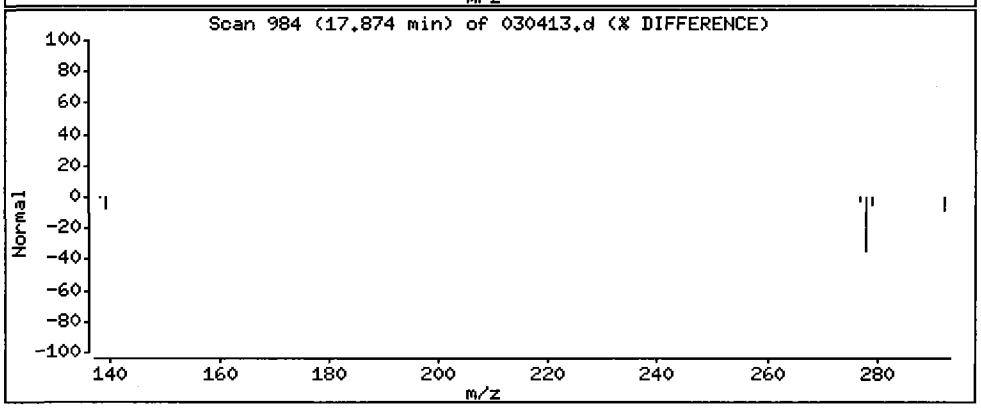
Concentration: 19.0 ug/L











Data File: /chem3/nt2.i/20100304.b/030413.d

Date : 04-MAR-2010 16:55

Client ID: CB100022410Comp

Instrument: nt2.i

Sample Info: QL58D

Volume Injected (uL): 2.0

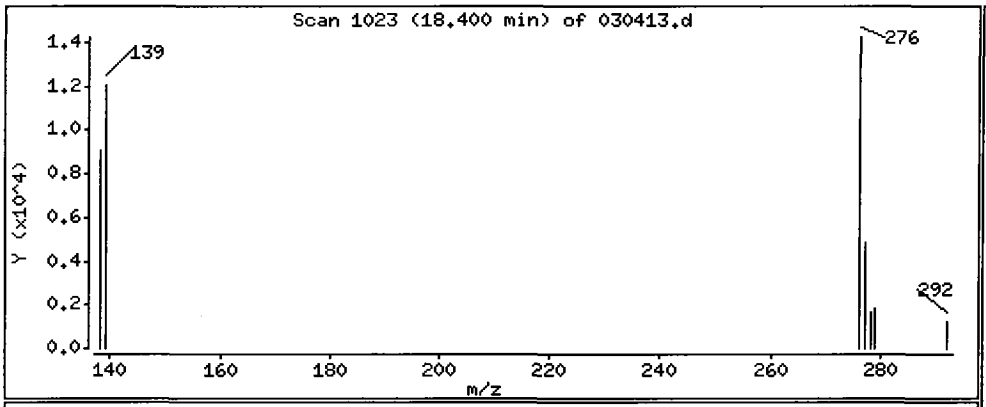
Operator: VTS

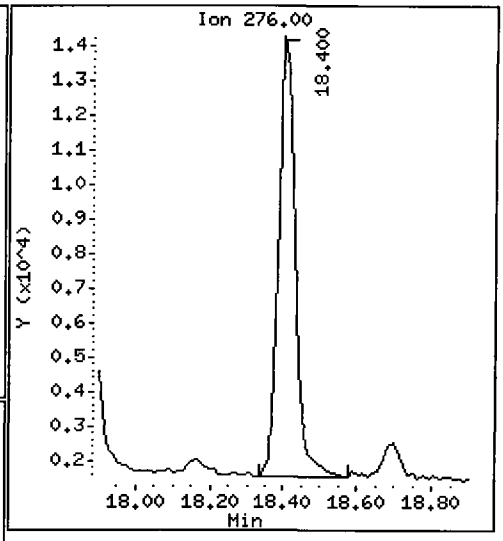
Column phase: ZB-5

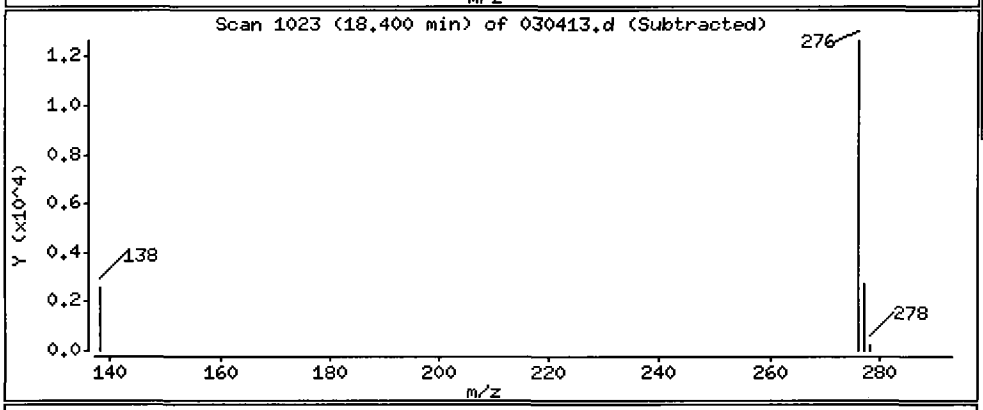
Column diameter: 0.25

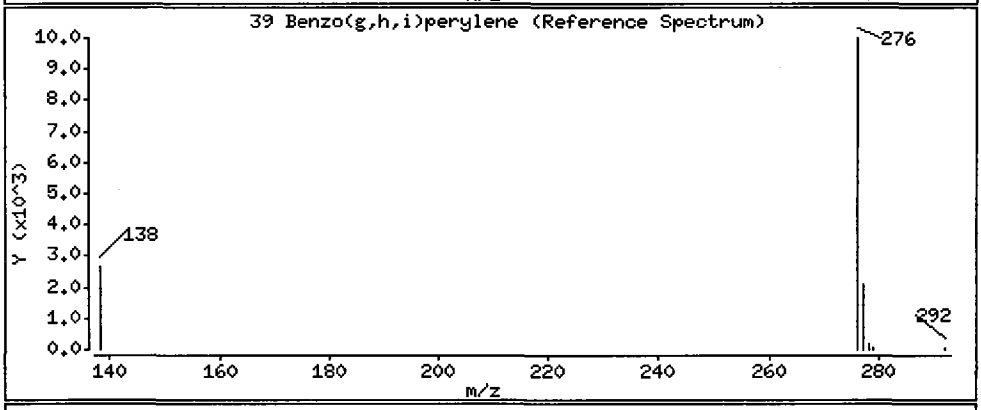
39 Benzo(g,h,i)perylene

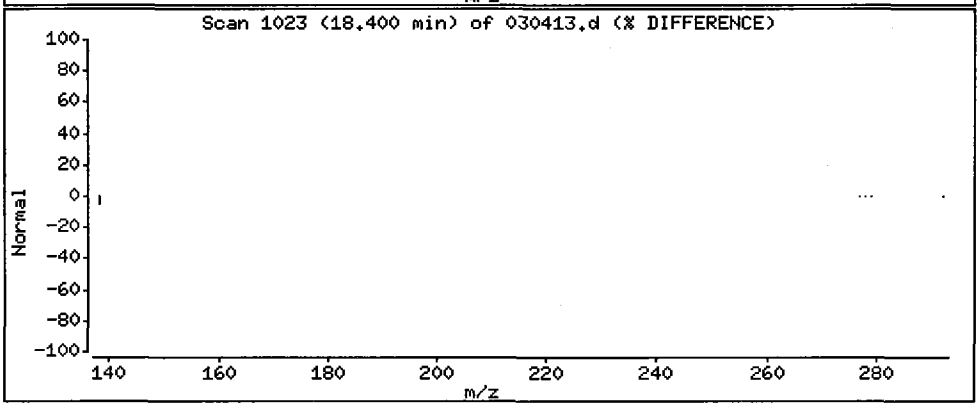
Concentration: 47.5 ug/L



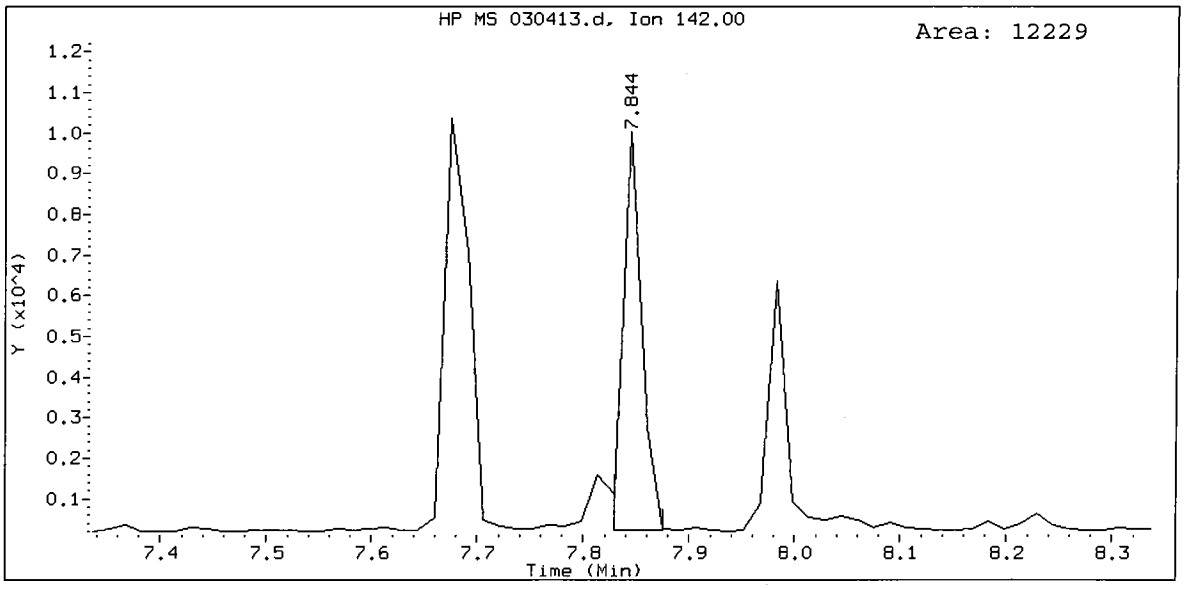


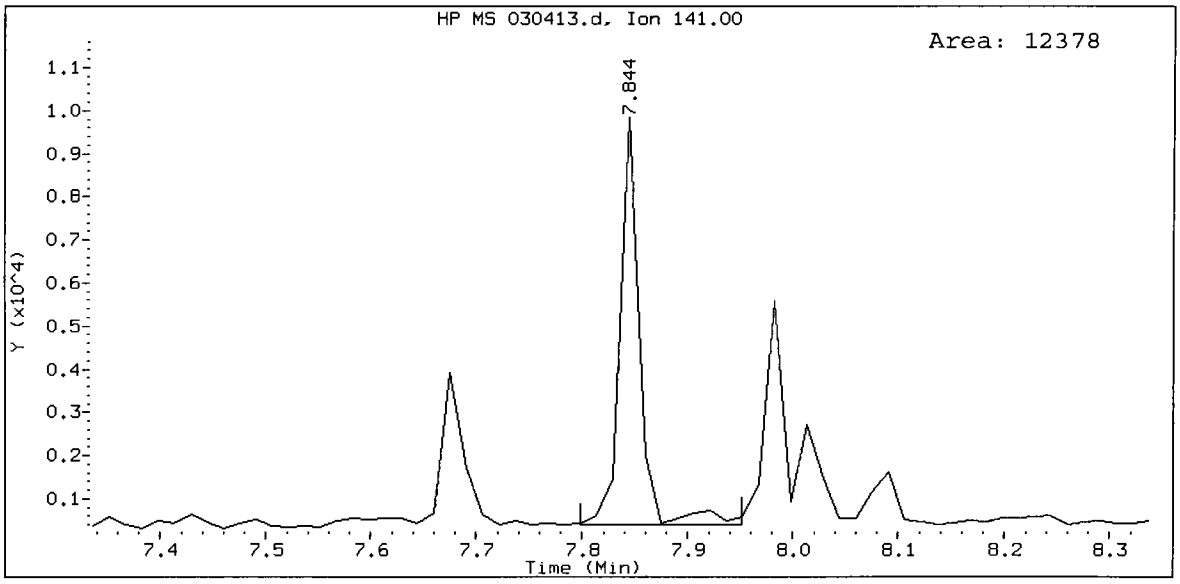


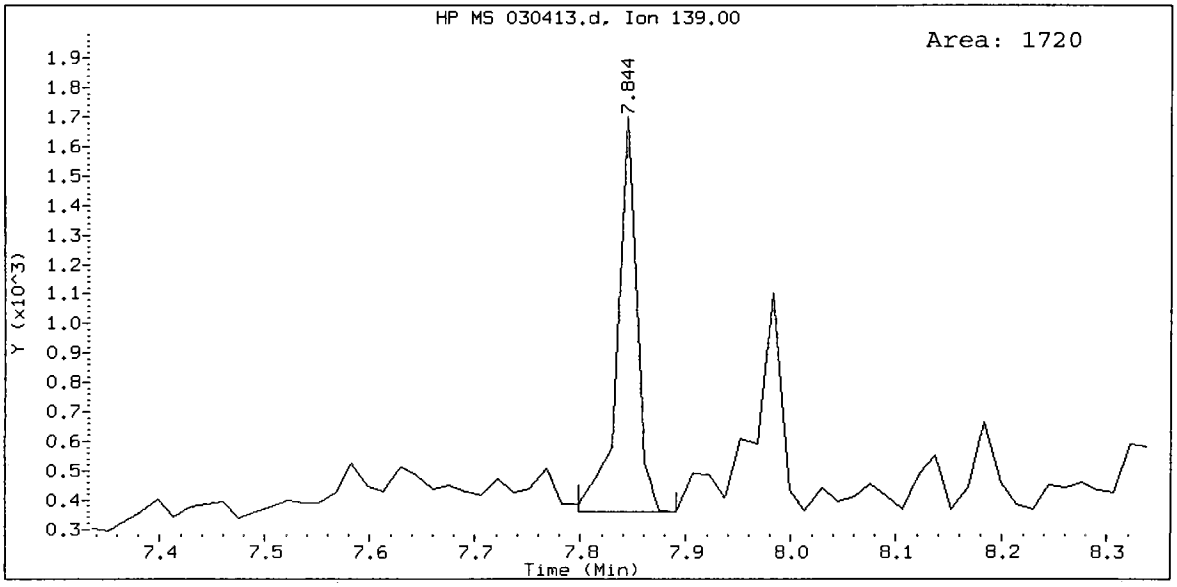




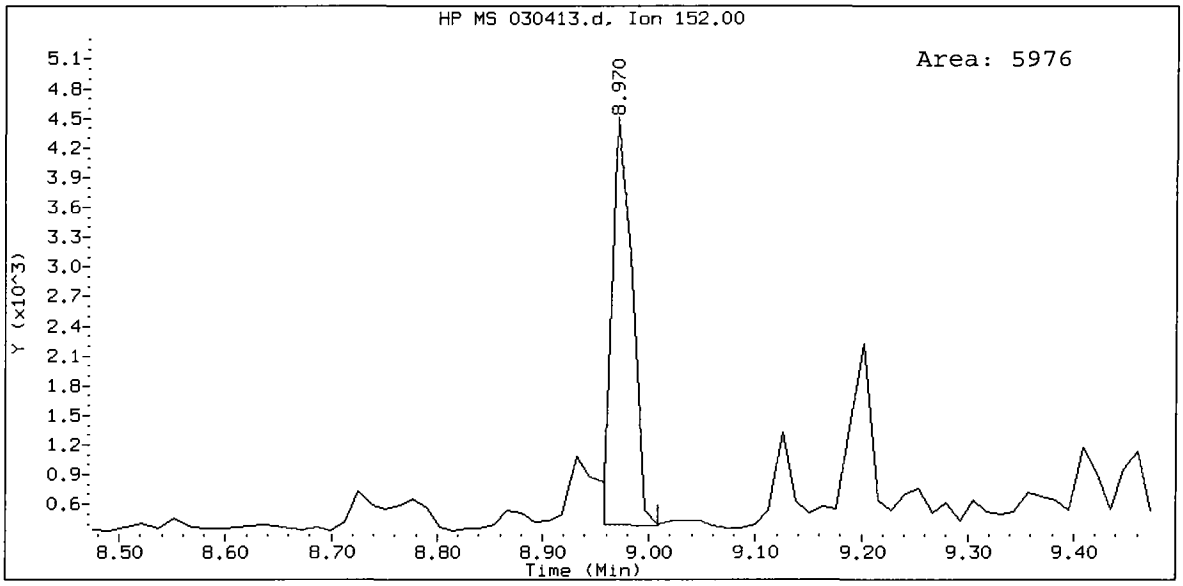
QL58D, /chem3/nt2.i/20100304.b/030413.d
2-Methylnaphthalene Amount: 17.40



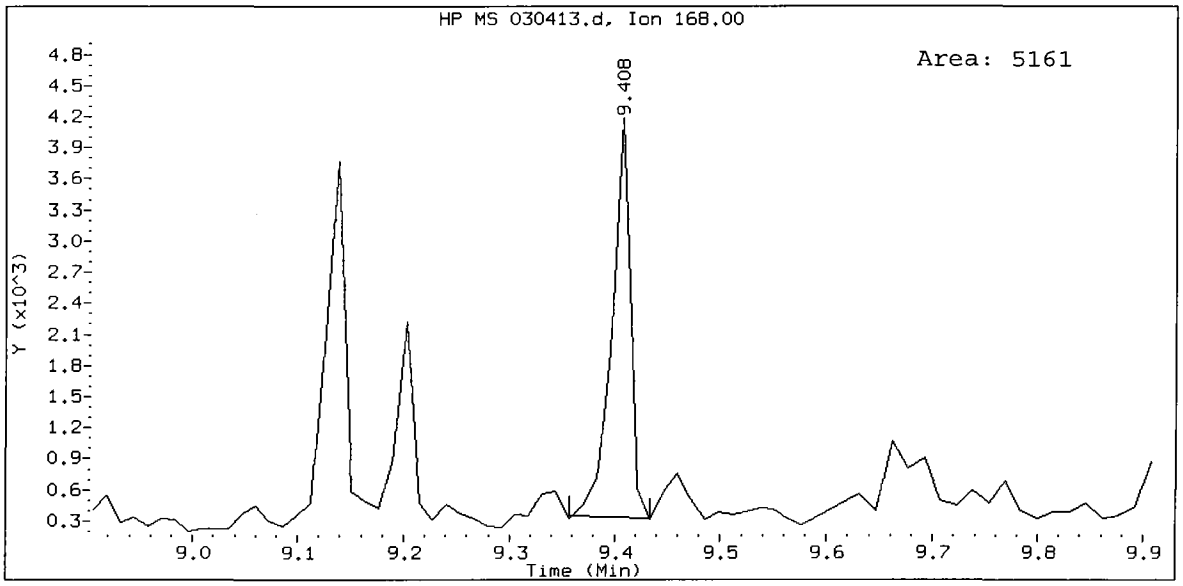




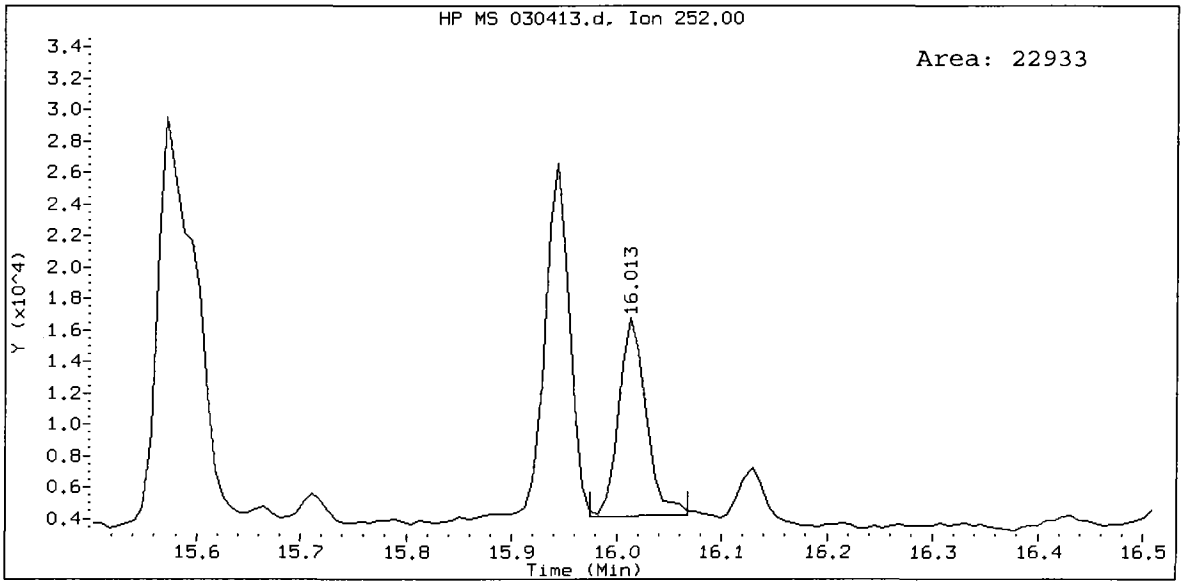
QL58D, /chem3/nt2.i/20100304.b/030413.d
Acenaphthylene Amount: 6.48

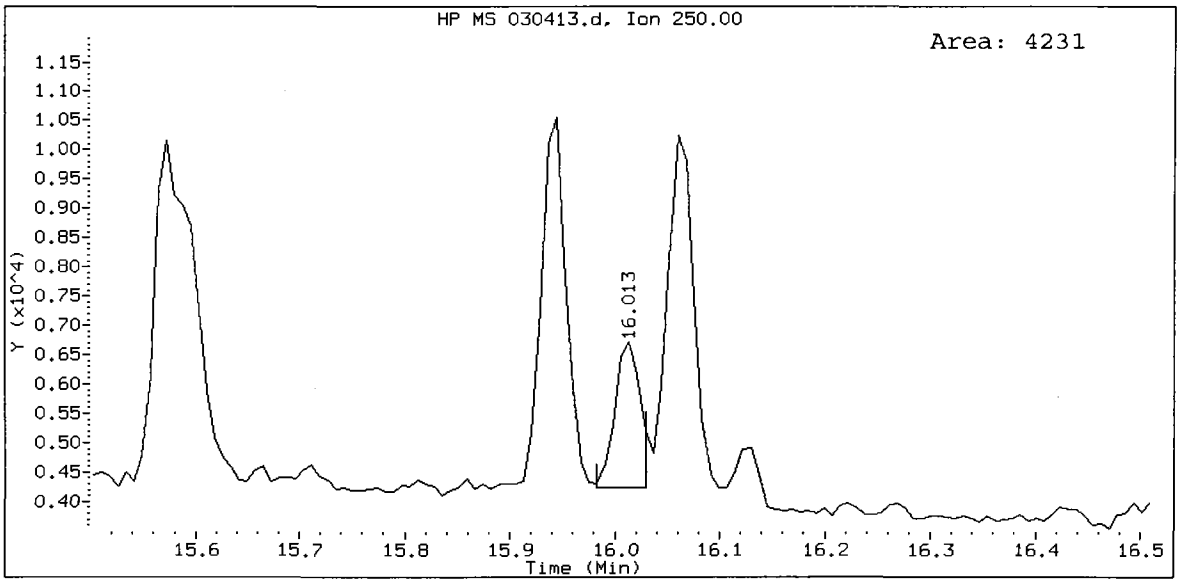


QL58D, /chem3/nt2.i/20100304.b/030413.d
Dibenzofuran Amount: 6.92

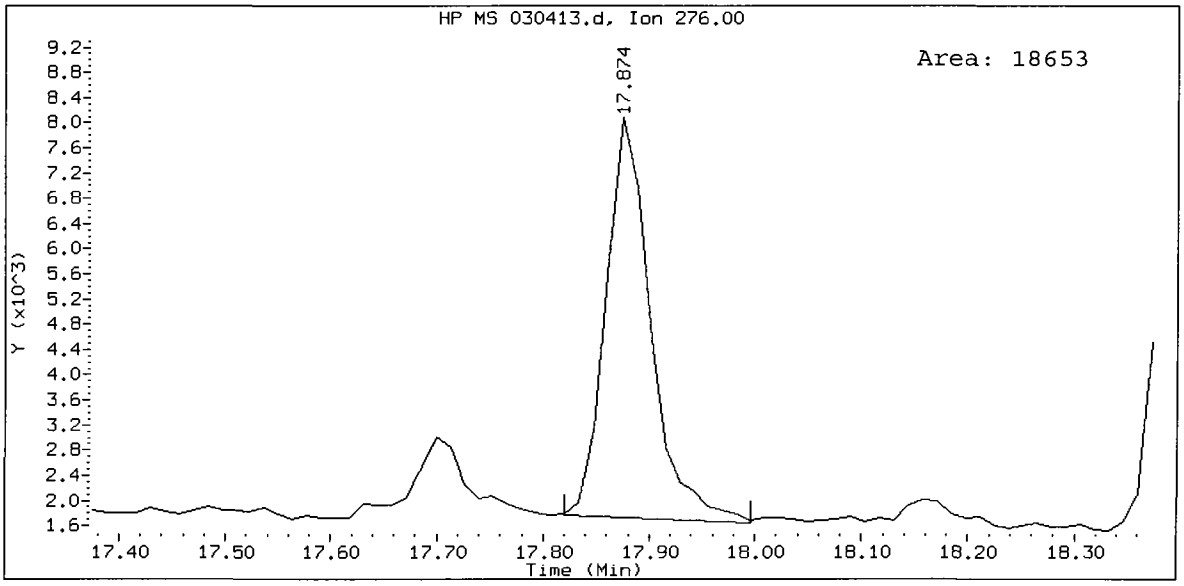


QL58D, /chem3/nt2.i/20100304.b/030413.d
Benzo(a)pyrene Amount: 27.02

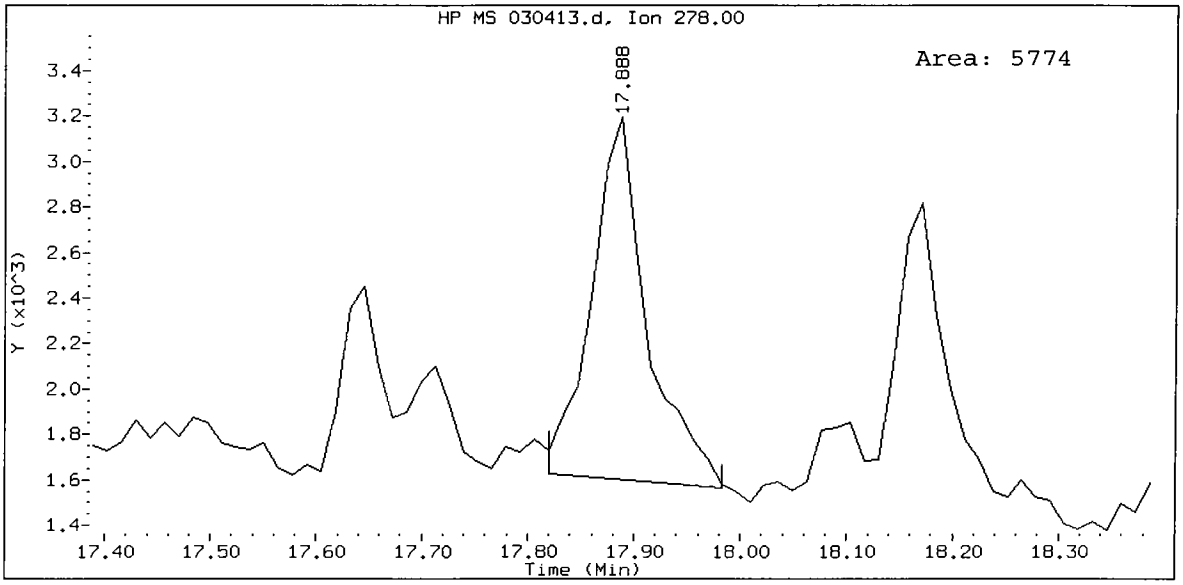




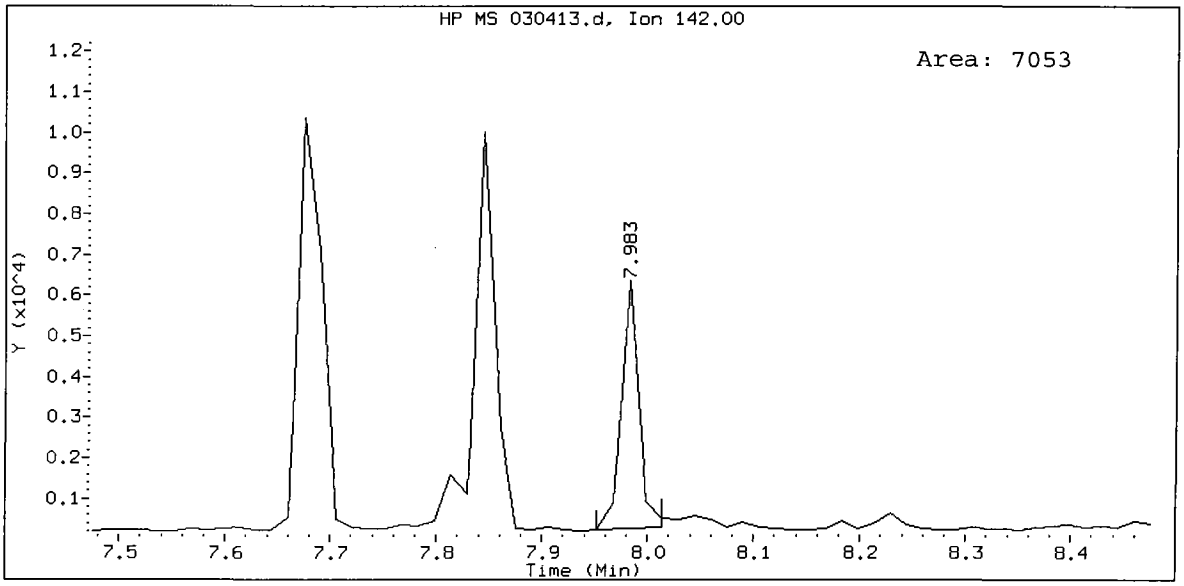
QL58D, /chem3/nt2.i/20100304.b/030413.d
Indeno(1,2,3-cd)pyrene Amount: 18.96

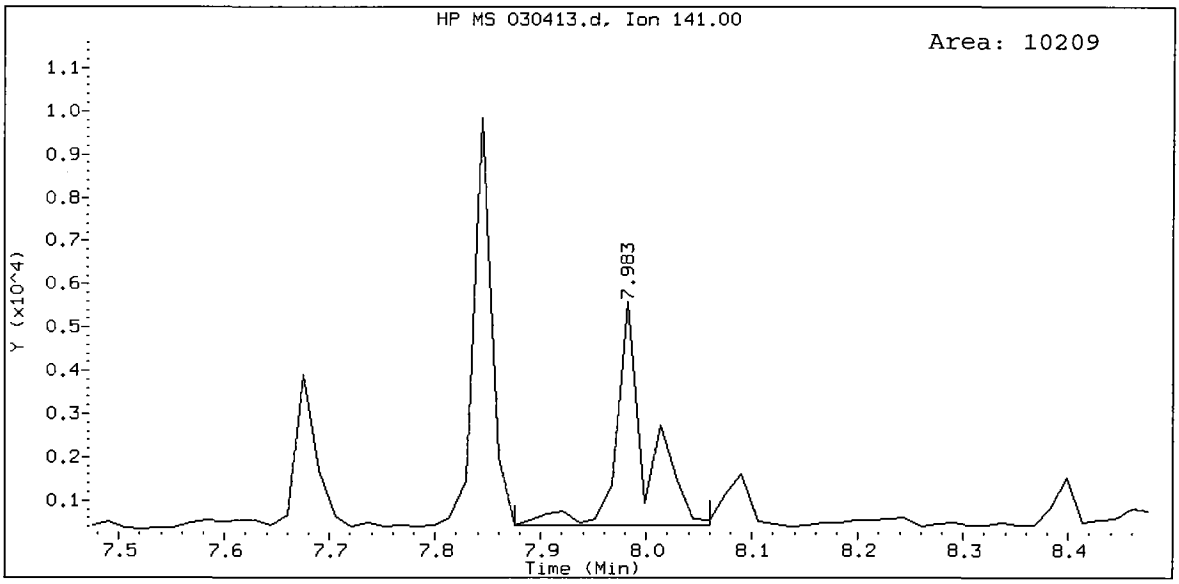


QL58D, /chem3/nt2.i/20100304.b/030413.d
Dibenzo(a,h)anthracene Amount: 7.50



QL58D, /chem3/nt2.i/20100304.b/030413.d
1-Methylnaphthalene Amount: 9.64





SIM Semivolatile Analysis
Standard Raw Data

prepared
for

Floyd/Snider

Project: Lora Lake Apartments, POS-LLA

ARI JOB NO: QL58

prepared
by

Analytical Resources, Inc.

6B

SEMIVOLATILE 8270-D INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

ARI Job No: QL58 Project: LORA LAKE APARTMENTS

Instrument ID: NT2 Calibration Date: 10/21/09

LAB FILE ID: RRF10 =IC102103 RRF50 =IC102105 RRF100=IC102106
RRF250=IC102101 RRF500=IC102104 RRF1000=IC102102

COMPOUND	RRF 10	RRF 50	RRF 100	RRF 250	RRF 500	RRF 1000	___ RRF	%RSD /R^2
Naphthalene	1.084	0.955	0.972	1.010	0.883	0.874	0.963	8.2
2-Methylnaphthalene	0.590	0.570	0.562	0.595	0.531	0.522	0.562	5.3
Acenaphthylene	1.603	1.583	1.560	1.586	1.575	1.589	1.583	0.9
Acenaphthene	1.030	0.993	0.975	0.940	0.965	0.990	0.982	3.1
Dibenzofuran	1.235	1.216	1.228	1.351	1.300	1.347	1.280	4.8
Fluorene	1.006	1.012	1.050	1.078	1.095	1.106	1.058	4.0
Phenanthrene	1.054	0.992	0.942	1.032	0.946	0.999	0.994	4.5
Anthracene	1.118	1.018	0.976	0.992	1.015	0.976	1.016	5.3
Fluoranthene	1.270	1.069	1.046	1.064	1.015	1.032	1.083	8.7
Pyrene	1.277	1.095	1.056	1.076	1.037	1.053	1.099	8.1
Benzo(a)anthracene	1.127	0.985	0.976	0.993	0.967	0.941	0.998	6.6
Chrysene	1.169	0.975	0.947	0.951	0.942	0.925	0.985	9.3
Benzo(b)fluoranthene	1.481	1.062	1.044	1.097	1.028	1.162	1.146	14.9
Benzo(k)fluoranthene	1.213	1.296	1.295	1.206	1.319	1.136	1.244	5.7
Benzo(a)pyrene	0.995	0.868	0.870	0.894	0.888	0.872	0.898	5.5
Indeno(1,2,3-cd)pyrene	1.162	0.994	0.990	1.037	1.029	1.029	1.040	6.0
Dibenzo(a,h)anthracene	0.833	0.775	0.782	0.830	0.830	0.832	0.814	3.4
Benzo(g,h,i)perylene	1.025	0.868	0.868	0.881	0.874	0.867	0.897	7.0
1-Methylnaphthalene	0.617	0.603	0.580	0.592	0.564	0.549	0.584	4.3
2-Methylnaphthalene-d10		0.521	0.525	0.538	0.500	0.492	0.515	3.7
Dibenzo(a,h)anthracene-d14	0.607	0.583	0.587	0.623	0.614	0.623	0.606	2.9

<- Outside QC limits: %RSD <20% or R^2 > 0.990

FORM VI SV-1

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 21-OCT-2009 11:37
End Cal Date : 21-OCT-2009 13:30
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem3/nt2.i/20091021.b/lowsim.m
Cal Date : 21-Oct-2009 14:43 peter
Curve Type : Average

Calibration File Names:
Level 1: /chem3/nt2.i/20091021.b/ic102103.d
Level 2: /chem3/nt2.i/20091021.b/ic102105.d
Level 3: /chem3/nt2.i/20091021.b/ic102106.d
Level 4: /chem3/nt2.i/20091021.b/ic102101.d
Level 5: /chem3/nt2.i/20091021.b/ic102104.d
Level 6: /chem3/nt2.i/20091021.b/ic102102.d

Compound	10.000 Level 1	50.000 Level 2	100.000 Level 3	250.000 Level 4	500.000 Level 5	1000.000 Level 6	___ RRF	% RSD
2 Phenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
3 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
5 Naphthalene	1.08422	0.95508	0.97248	1.00959	0.88269	0.87431	0.96306	8.220
7 2-Methylnaphthalene	0.58989	0.57001	0.56209	0.59473	0.53115	0.52188	0.56162	5.326
8 1-Methylnaphthalene	0.61739	0.60333	0.58036	0.59256	0.56451	0.54912	0.58455	4.307
9 Dimethylphthalate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
10 Acenaphthylene	1.60290	1.58341	1.55976	1.58640	1.57495	1.58903	1.58274	0.915
12 Acenaphthene	1.03007	0.99322	0.97471	0.93965	0.96490	0.99045	0.98217	3.104
13 Diethylphthalate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
14 Dibenzofuran	1.23504	1.21614	1.22851	1.35147	1.29957	1.34662	1.27956	4.777
15 Fluorene	1.00655	1.01160	1.04982	1.07858	1.09460	1.10554	1.05778	3.986
17 Pentachlorophenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
19 Phenanthrene	1.05381	0.99175	0.94236	1.03155	0.94563	0.99939	0.99408	4.505
20 Anthracene	1.11827	1.01797	0.97565	0.99177	1.01513	0.97600	1.01580	5.261
21 Di-n-butylphthalate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
22 Carbazole	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
24 Fluoranthene	1.26962	1.06871	1.04646	1.06433	1.01541	1.03189	1.08274	8.654
25 Pyrene	1.27709	1.09496	1.05649	1.07591	1.03674	1.05327	1.09908	8.142
26 Butylbenzylphthalate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
27 Bis(2-Ethylhexyl)phthalate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
28 Benzo(a)anthracene	1.12699	0.98509	0.97625	0.99322	0.96700	0.94072	0.99821	6.576

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 21-OCT-2009 11:37
End Cal Date : 21-OCT-2009 13:30
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem3/nt2.i/20091021.b/lowsim.m
Cal Date : 21-Oct-2009 14:43 peter
Curve Type : Average

	Compound	10.000 Level 1	50.000 Level 2	100.000 Level 3	250.000 Level 4	500.000 Level 5	1000.000 Level 6	RRF	% RSD
	30 Chrysene	1.16905	0.97489	0.94660	0.95134	0.94178	0.92546	0.98485	9.306
	31 Di-n-octylphthalate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	32 Benzo(b)fluoranthene	1.48132	1.06240	1.04439	1.09699	1.02765	1.16238	1.14586	14.935
	33 Benzo(k)fluoranthene	1.21308	1.29612	1.29466	1.20580	1.31870	1.13631	1.24411	5.670
	34 Benzo(a)pyrene	0.99543	0.86769	0.87028	0.89402	0.88788	0.87159	0.89782	5.456
	37 Indeno(1,2,3-cd)pyrene	1.16231	0.99441	0.99043	1.03698	1.02944	1.02890	1.04041	6.039
	38 Dibenzo(a,h)anthracene	0.83347	0.77488	0.78166	0.82992	0.83027	0.83253	0.81379	3.395
	39 Benzo(g,h,i)perylene	1.02510	0.86831	0.86768	0.88079	0.87354	0.86741	0.89714	7.011
$	1 D5-Phenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$	6 2-Methylnaphthalene-d10	+++++	0.52084	0.52510	0.53838	0.49952	0.49180	0.51513	3.710
$	16 2,4,6-Tribromophenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$	23 Fluoranthene-d10	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$	36 Dibenzo(a,h)anthracene-d14	0.60727	0.58335	0.58716	0.62305	0.61361	0.62288	0.60622	2.860

Analytical Resources, Inc.

Data file : /chem3/nt2.i/20091021.b/ic102101.d
Lab Smp Id: PNA 250
Inj Date : 21-OCT-2009 11:37
Operator : VTS Inst ID: nt2.i
Smp Info : PNA 250
Misc Info :
Comment :
Method : /chem3/nt2.i/20091021.b/lowsim.m
Meth Date : 21-Oct-2009 14:44 peter Quant Type: ISTD
Cal Date : 21-OCT-2009 13:30 Cal File: ic102106.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pna1mn.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Vt / Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Final Extract Volume (uL)
Vo	500.00000	Sample Volume extracted (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)
*	4 Naphthalene-d8	136	6.226	6.226	(1.000)	173109	200.000	
	5 Naphthalene	128	6.257	6.257	(1.005)	218461	250.000	262
$	6 2-Methylnaphthalene-d10	152	7.073	7.073	(1.136)	116499	250.000	261
	7 2-Methylnaphthalene	142	7.119	7.103	(1.143)	128691	250.000	265
	8 1-Methylnaphthalene	142	7.242	7.242	(1.163)	128222	250.000	253
	10 Acenaphthylene	152	8.224	8.211	(0.977)	191711	250.000	251
*	11 Acenaphthene-d10	164	8.418	8.417	(1.000)	96677	200.000	
	12 Acenaphthene	153	8.443	8.443	(1.003)	113553	250.000	239
	14 Dibenzofuran	168	8.650	8.649	(1.028)	163320	250.000	264
	15 Fluorene	166	9.069	9.054	(1.077)	130342	250.000	255
*	18 Phenanthrene-d10	188	10.208	10.208	(1.000)	147750	200.000	
	19 Phenanthrene	178	10.239	10.239	(1.003)	190515	250.000	259
	20 Anthracene	178	10.300	10.285	(1.009)	183168	250.000	244
	24 Fluoranthene	202	11.702	11.691	(1.146)	196568	250.000	246
	25 Pyrene	202	11.977	11.966	(1.173)	198708	250.000	245

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	ON-COL (ng/mL)
	28 Benzo(a)anthracene	228	13.447	13.447	(0.998)	167878	250.000	249
*	29 Chrysene-d12	240	13.469	13.469	(1.000)	135219	200.000	
	30 Chrysene	228	13.502	13.491	(1.002)	160799	250.000	241
	32 Benzo(b)fluoranthene	252	14.702	14.695	(0.973)	172523	250.000	239
	33 Benzo(k)fluoranthene	252	14.726	14.718	(0.975)	189635	250.000	242
	34 Benzo(a)pyrene	252	15.043	15.036	(0.996)	140601	250.000	249
*	35 Perylene-d12	264	15.105	15.098	(1.000)	125815	200.000	
	37 Indeno(1,2,3-cd)pyrene	276	16.399	16.399	(1.086)	163084	250.000	249
$	36 Dibenzo(a,h)anthracene-d14	292	16.372	16.372	(1.084)	97986	250.000	257
	38 Dibenzo(a,h)anthracene	278	16.412	16.413	(1.087)	130520	250.000	255
	39 Benzo(g,h,i)perylene	276	16.777	16.763	(1.111)	138520	250.000	245

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt2.i
Lab File ID: ic102101.d
Lab Smp Id: PNA 250
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt2.i/20091021.b/lowsim.m
Misc Info:

Calibration Date: 21-OCT-2009
Calibration Time: 11:37

Level: LOW
Sample Type: WATER

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
4 Naphthalene-d8	173109	86554	346218	173109	0.00
11 Acenaphthene-d10	96677	48338	193354	96677	0.00
18 Phenanthrene-d10	147750	73875	295500	147750	0.00
29 Chrysene-d12	135219	67610	270438	135219	0.00
35 Perylene-d12	125815	62908	251630	125815	0.00

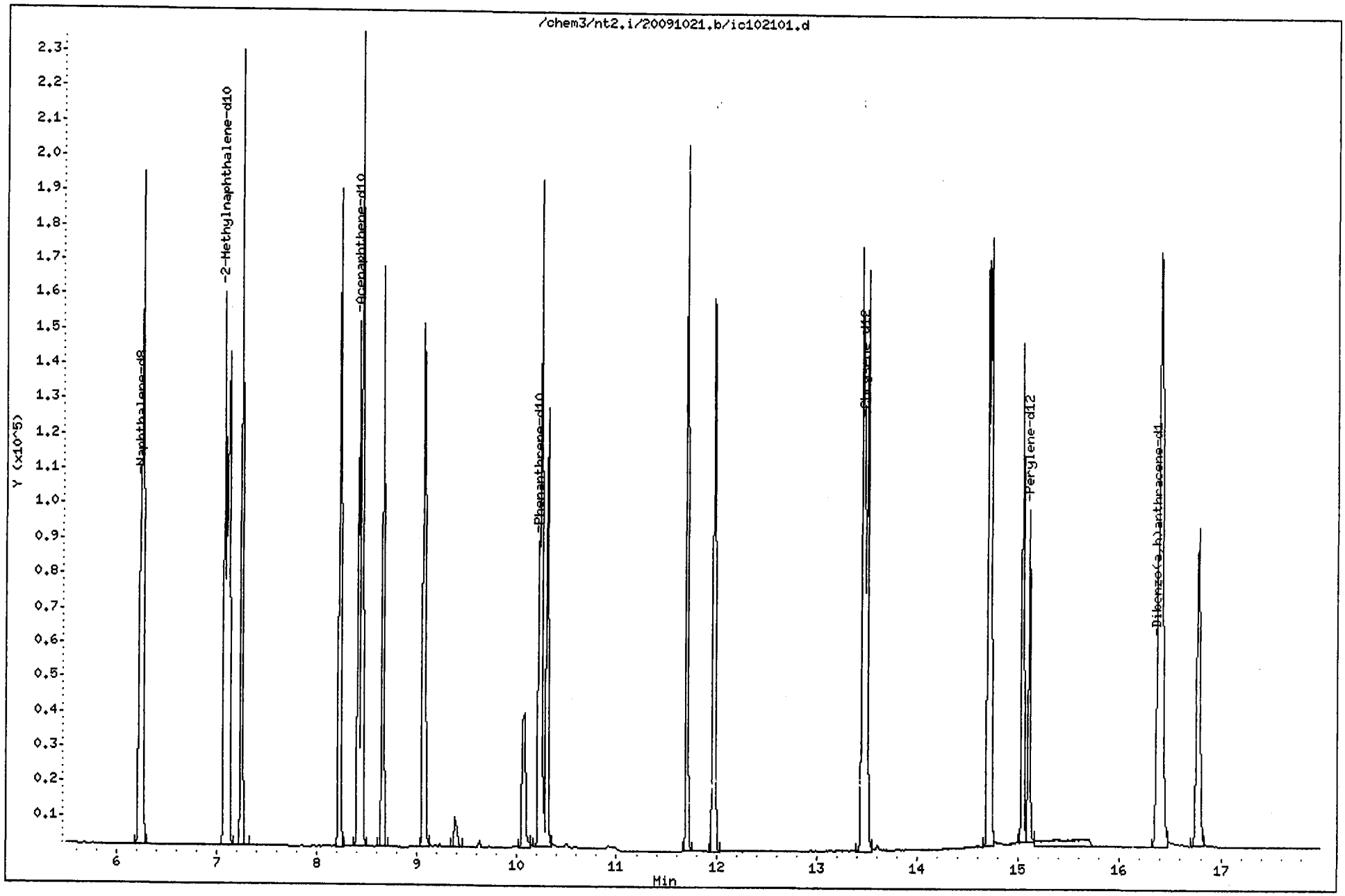
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
4 Naphthalene-d8	6.23	5.73	6.73	6.23	0.00
11 Acenaphthene-d10	8.42	7.92	8.92	8.42	0.00
18 Phenanthrene-d10	10.21	9.71	10.71	10.21	0.00
29 Chrysene-d12	13.47	12.97	13.97	13.47	0.00
35 Perylene-d12	15.11	14.61	15.61	15.11	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem3/nt2.i/20091021.b/ic102101.d
Date : 21-OCT-2009 11:37
Client ID:
Sample Info: PNA 250
Volume Injected (uL): 2.0
Column phase: ZB-5

Instrument: nt2.i

Operator: VTS
Column diameter: 0.25



Analytical Resources, Inc.

Data file : /chem3/nt2.i/20091021.b/ic102102.d
Lab Smp Id: PNA 1000
Inj Date : 21-OCT-2009 12:00
Operator : VTS Inst ID: nt2.i
Smp Info : PNA 1000
Misc Info :
Comment :
Method : /chem3/nt2.i/20091021.b/lowsim.m
Meth Date : 21-Oct-2009 14:44 peter Quant Type: ISTD
Cal Date : 21-OCT-2009 13:30 Cal File: ic102106.d
Als bottle: 2 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pna1mn.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Vt / Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Final Extract Volume (uL)
Vo	500.00000	Sample Volume extracted (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)
* 4 Naphthalene-d8	136	6.227	6.226	(1.000)	188814	200.000	
5 Naphthalene	128	6.258	6.257	(1.005)	825414	1000.00	908
$ 6 2-Methylnaphthalene-d10	152	7.074	7.073	(1.136)	464298	1000.00	955
7 2-Methylnaphthalene	142	7.104	7.103	(1.141)	492692	1000.00	929
8 1-Methylnaphthalene	142	7.243	7.242	(1.163)	518412	1000.00	939
10 Acenaphthylene	152	8.211	8.211	(0.976)	734789	1000.00	1000(A)
* 11 Acenaphthene-d10	164	8.417	8.417	(1.000)	92483	200.000	
12 Acenaphthene	153	8.443	8.443	(1.003)	457997	1000.00	1010(A)
14 Dibenzofuran	168	8.649	8.649	(1.028)	622698	1000.00	1050(A)
15 Fluorene	166	9.054	9.054	(1.076)	511218	1000.00	1050(A)
* 18 Phenanthrene-d10	188	10.208	10.208	(1.000)	148959	200.000	
19 Phenanthrene	178	10.238	10.239	(1.003)	744342	1000.00	1010(A)
20 Anthracene	178	10.285	10.285	(1.008)	726921	1000.00	961
24 Fluoranthene	202	11.702	11.691	(1.146)	768544	1000.00	953
25 Pyrene	202	11.965	11.966	(1.172)	784471	1000.00	958

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)
	28 Benzo(a)anthracene	228	13.447	13.447	(0.998)	651296	1000.00	942
*	29 Chrysene-d12	240	13.469	13.469	(1.000)	138468	200.000	
	30 Chrysene	228	13.491	13.491	(1.002)	640733	1000.00	940
	32 Benzo(b)fluoranthene	252	14.694	14.695	(0.973)	727721	1000.00	1010(A)
	33 Benzo(k)fluoranthene	252	14.717	14.718	(0.974)	711396	1000.00	913
	34 Benzo(a)pyrene	252	15.035	15.036	(0.995)	545669	1000.00	971
*	35 Perylene-d12	264	15.104	15.098	(1.000)	125212	200.000	
	37 Indeno(1,2,3-cd)pyrene	276	16.399	16.399	(1.086)	644155	1000.00	989
$	36 Dibenzo(a,h)anthracene-d14	292	16.372	16.372	(1.084)	389963	1000.00	1030(A)
	38 Dibenzo(a,h)anthracene	278	16.412	16.413	(1.087)	521214	1000.00	1020(A)
	39 Benzo(g,h,i)perylene	276	16.776	16.763	(1.111)	543050	1000.00	967

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt2.i
Lab File ID: ic102102.d
Lab Smp Id: PNA 1000
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt2.i/20091021.b/lowsim.m
Misc Info:

Calibration Date: 21-OCT-2009
Calibration Time: 11:37

Level: LOW
Sample Type: WATER

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
4 Naphthalene-d8	173109	86554	346218	188814	9.07
11 Acenaphthene-d10	96677	48338	193354	92483	-4.34
18 Phenanthrene-d10	147750	73875	295500	148959	0.82
29 Chrysene-d12	135219	67610	270438	138468	2.40
35 Perylene-d12	125815	62908	251630	125212	-0.48

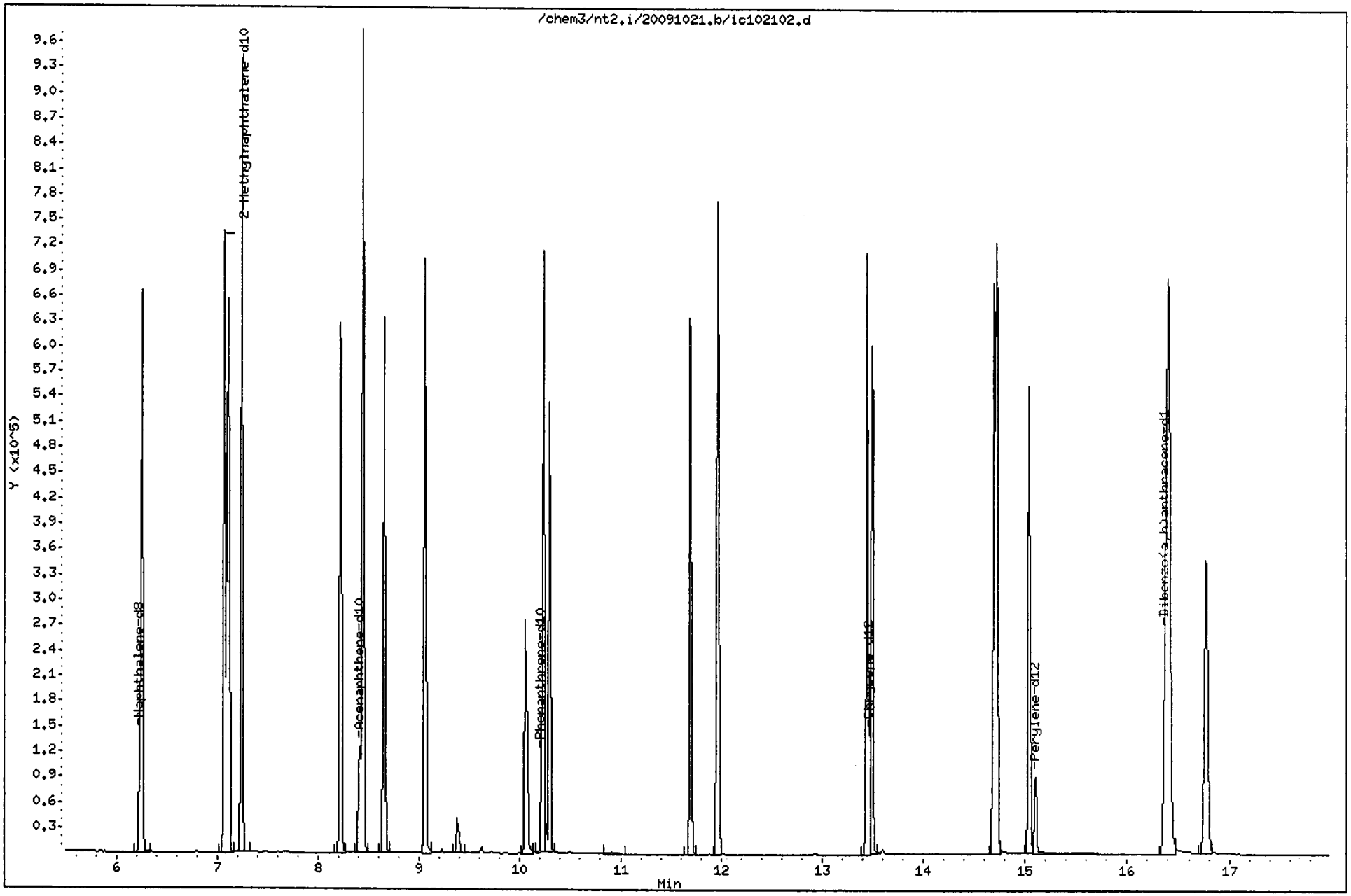
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
4 Naphthalene-d8	6.23	5.73	6.73	6.23	0.02
11 Acenaphthene-d10	8.42	7.92	8.92	8.42	-0.01
18 Phenanthrene-d10	10.21	9.71	10.71	10.21	0.00
29 Chrysene-d12	13.47	12.97	13.97	13.47	0.00
35 Perylene-d12	15.11	14.61	15.61	15.10	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem3/nt2.i/20091021.b/ic102102.d
Date : 21-OCT-2009 12:00
Client ID:
Sample Info: PNA 1000
Volume Injected (uL): 2.0
Column phase: ZB-5

Instrument: nt2.i

Operator: VTS
Column diameter: 0.25



Analytical Resources, Inc.

Data file : /chem3/nt2.i/20091021.b/ic102103.d
Lab Smp Id: PNA 10
Inj Date : 21-OCT-2009 12:22
Operator : VTS Inst ID: nt2.i
Smp Info : PNA 10
Misc Info :
Comment :
Method : /chem3/nt2.i/20091021.b/lowsim.m
Meth Date : 21-Oct-2009 14:44 peter Quant Type: ISTD
Cal Date : 21-OCT-2009 13:30 Cal File: ic102106.d
Als bottle: 3 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pna1mn.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Vt / Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Final Extract Volume (uL)
Vo	500.00000	Sample Volume extracted (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)
*	4 Naphthalene-d8	136	6.226	6.226	(1.000)	163657	200.000	
	5 Naphthalene	128	6.257	6.257	(1.005)	8872	10.0000	11.3
$	6 2-Methylnaphthalene-d10	152	7.073	7.073	(1.136)	4462	10.0000	10.6
	7 2-Methylnaphthalene	142	7.103	7.103	(1.141)	4827	10.0000	10.5
	8 1-Methylnaphthalene	142	7.242	7.242	(1.163)	5052	10.0000	10.6
	10 Acenaphthylene	152	8.211	8.211	(0.976)	6475	10.0000	10.1
*	11 Acenaphthene-d10	164	8.417	8.417	(1.000)	80791	200.000	
	12 Acenaphthene	153	8.443	8.443	(1.003)	4161	10.0000	10.5
	14 Dibenzofuran	168	8.649	8.649	(1.028)	4989	10.0000	9.65
	15 Fluorene	166	9.055	9.054	(1.076)	4066	10.0000	9.52
*	18 Phenanthrene-d10	188	10.208	10.208	(1.000)	128448	200.000	
	19 Phenanthrene	178	10.239	10.239	(1.003)	6768	10.0000	10.6
	20 Anthracene	178	10.285	10.285	(1.008)	7182	10.0000	11.0(M)
	24 Fluoranthene	202	11.691	11.691	(1.145)	8154	10.0000	11.7
	25 Pyrene	202	11.965	11.966	(1.172)	8202	10.0000	11.6

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)
	28 Benzo(a)anthracene	228	13.447	13.447	(0.998)	6672	10.0000	11.3
*	29 Chrysene-d12	240	13.469	13.469	(1.000)	118404	200.000	
	30 Chrysene	228	13.491	13.491	(1.002)	6921	10.0000	11.9
	32 Benzo(b)fluoranthene	252	14.695	14.695	(0.973)	8140	10.0000	12.9
	33 Benzo(k)fluoranthene	252	14.718	14.718	(0.975)	6666	10.0000	9.75
	34 Benzo(a)pyrene	252	15.036	15.036	(0.996)	5470	10.0000	11.1
*	35 Perylene-d12	264	15.097	15.098	(1.000)	109902	200.000	
	37 Indeno(1,2,3-cd)pyrene	276	16.399	16.399	(1.086)	6387	10.0000	11.2
$	36 Dibenzo(a,h)anthracene-d14	292	16.372	16.372	(1.084)	3337	10.0000	10.0
	38 Dibenzo(a,h)anthracene	278	16.413	16.413	(1.087)	4580	10.0000	10.2
	39 Benzo(g,h,i)perylene	276	16.763	16.763	(1.110)	5633	10.0000	11.4

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt2.i
Lab File ID: ic102103.d
Lab Smp Id: PNA 10
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt2.i/20091021.b/lowsim.m
Misc Info:

Calibration Date: 21-OCT-2009
Calibration Time: 11:37

Level: LOW
Sample Type: WATER

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
4 Naphthalene-d8	173109	86554	346218	163657	-5.46
11 Acenaphthene-d10	96677	48338	193354	80791	-16.43
18 Phenanthrene-d10	147750	73875	295500	128448	-13.06
29 Chrysene-d12	135219	67610	270438	118404	-12.44
35 Perylene-d12	125815	62908	251630	109902	-12.65

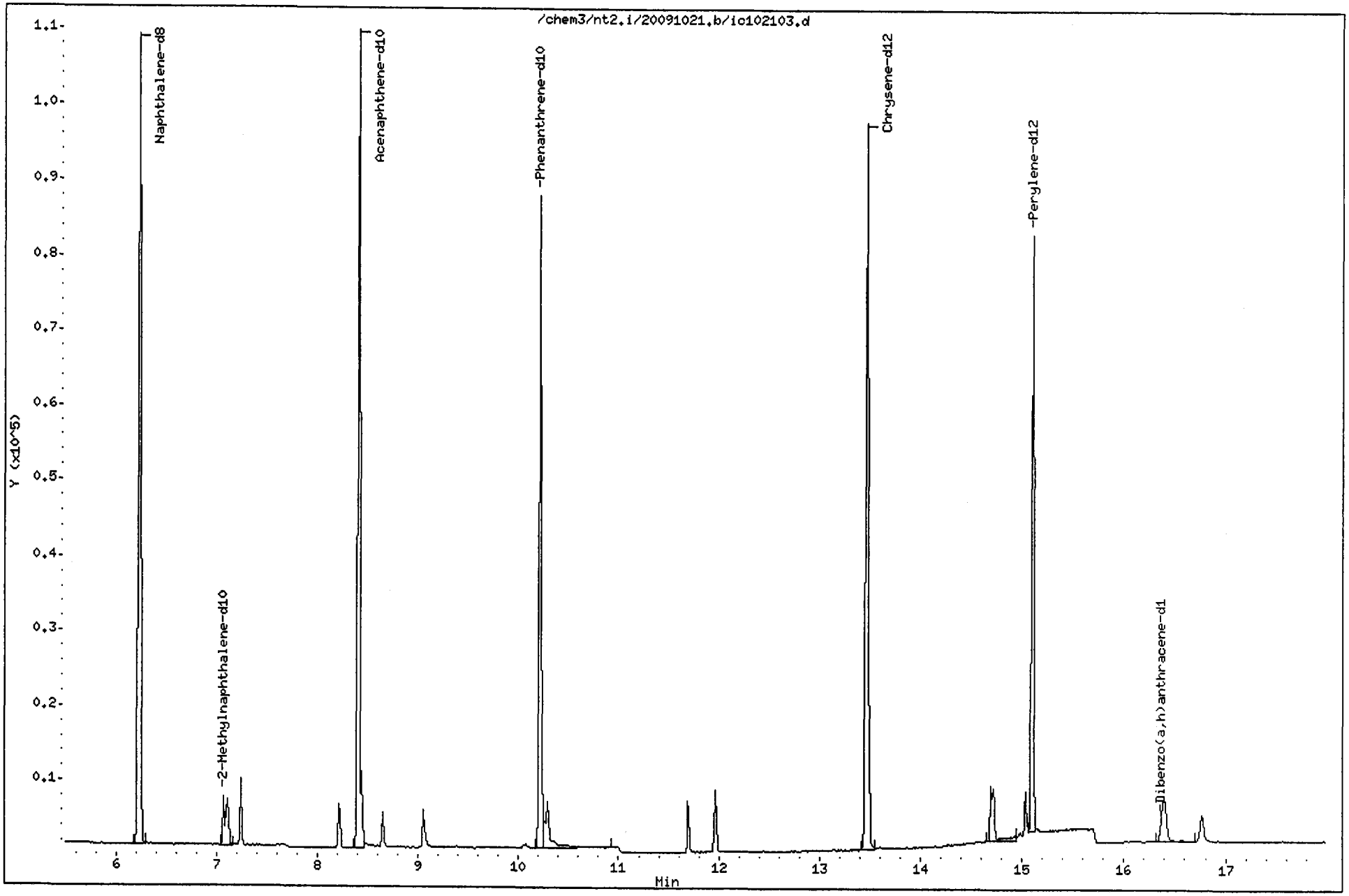
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
4 Naphthalene-d8	6.23	5.73	6.73	6.23	0.00
11 Acenaphthene-d10	8.42	7.92	8.92	8.42	0.00
18 Phenanthrene-d10	10.21	9.71	10.71	10.21	0.00
29 Chrysene-d12	13.47	12.97	13.97	13.47	0.00
35 Perylene-d12	15.11	14.61	15.61	15.10	-0.05

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

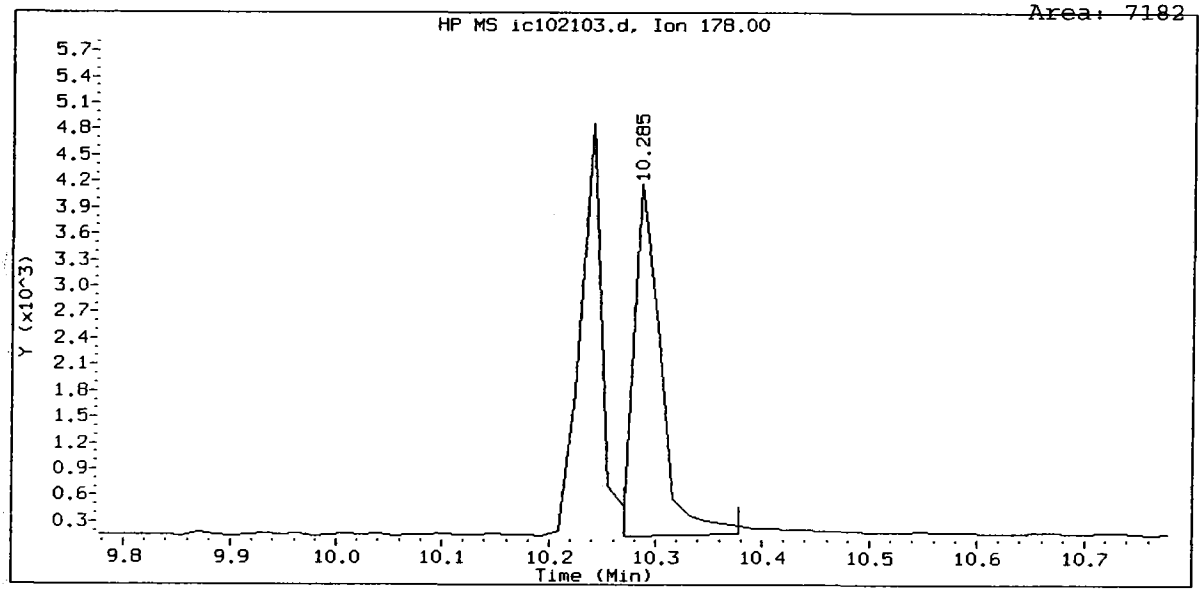
Data File: /chem3/nt2.i/20091021.b/ic102103.d
Date : 21-OCT-2009 12:22
Client ID:
Sample Info: PNA 10
Volume Injected (uL): 2.0
Column phase: ZB-5

Instrument: nt2.i

Operator: VTS
Column diameter: 0.25



PNA 10, /chem3/nt2.i/20091021.b/ic102103.d
Anthracene Amount: 11.01



Analytical Resources, Inc.

Data file : /chem3/nt2.i/20091021.b/ic102104.d
Lab Smp Id: PNA 500
Inj Date : 21-OCT-2009 12:45
Operator : VTS Inst ID: nt2.i
Smp Info : PNA 500
Misc Info :
Comment :
Method : /chem3/nt2.i/20091021.b/lowsim.m
Meth Date : 21-Oct-2009 14:44 peter Quant Type: ISTD
Cal Date : 21-OCT-2009 13:30 Cal File: ic102106.d
Als bottle: 4 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pna1mn.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Vt / Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Final Extract Volume (uL)
Vo	500.00000	Sample Volume extracted (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)
*	4 Naphthalene-d8	136	6.227	6.226	(1.000)	177186	200.000	
	5 Naphthalene	128	6.258	6.257	(1.005)	390999	500.000	458
$	6 2-Methylnaphthalene-d10	152	7.073	7.073	(1.136)	221268	500.000	485
	7 2-Methylnaphthalene	142	7.104	7.103	(1.141)	235281	500.000	473
	8 1-Methylnaphthalene	142	7.243	7.242	(1.163)	250059	500.000	483
	10 Acenaphthylene	152	8.223	8.211	(0.977)	349646	500.000	498
*	11 Acenaphthene-d10	164	8.417	8.417	(1.000)	88802	200.000	
	12 Acenaphthene	153	8.442	8.443	(1.003)	214213	500.000	491
	14 Dibenzofuran	168	8.649	8.649	(1.028)	288512	500.000	508
	15 Fluorene	166	9.055	9.054	(1.076)	243007	500.000	517
*	18 Phenanthrene-d10	188	10.209	10.208	(1.000)	144260	200.000	
	19 Phenanthrene	178	10.240	10.239	(1.003)	341043	500.000	476
	20 Anthracene	178	10.286	10.285	(1.008)	366108	500.000	500
	24 Fluoranthene	202	11.691	11.691	(1.145)	366209	500.000	469
	25 Pyrene	202	11.965	11.966	(1.172)	373900	500.000	472

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)
	28 Benzo(a)anthracene	228	13.447	13.447	(0.998)	308003	500.000	484
*	29 Chrysene-d12	240	13.469	13.469	(1.000)	127406	200.000	
	30 Chrysene	228	13.491	13.491	(1.002)	299970	500.000	478
	32 Benzo(b)fluoranthene	252	14.696	14.695	(0.973)	299055	500.000	448
	33 Benzo(k)fluoranthene	252	14.719	14.718	(0.975)	383753	500.000	530
	34 Benzo(a)pyrene	252	15.036	15.036	(0.996)	258381	500.000	494
*	35 Perylene-d12	264	15.098	15.098	(1.000)	116403	200.000	
	37 Indeno(1,2,3-cd)pyrene	276	16.398	16.399	(1.086)	299575	500.000	495
$	36 Dibenzo(a,h)anthracene-d14	292	16.371	16.372	(1.084)	178564	500.000	506
	38 Dibenzo(a,h)anthracene	278	16.412	16.413	(1.087)	241614	500.000	510
	39 Benzo(g,h,i)perylene	276	16.762	16.763	(1.110)	254207	500.000	487

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt2.i
Lab File ID: ic102104.d
Lab Smp Id: PNA 500
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt2.i/20091021.b/lowsim.m
Misc Info:

Calibration Date: 21-OCT-2009
Calibration Time: 11:37

Level: LOW
Sample Type: WATER

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
4 Naphthalene-d8	173109	86554	346218	177186	2.36
11 Acenaphthene-d10	96677	48338	193354	88802	-8.15
18 Phenanthrene-d10	147750	73875	295500	144260	-2.36
29 Chrysene-d12	135219	67610	270438	127406	-5.78
35 Perylene-d12	125815	62908	251630	116403	-7.48

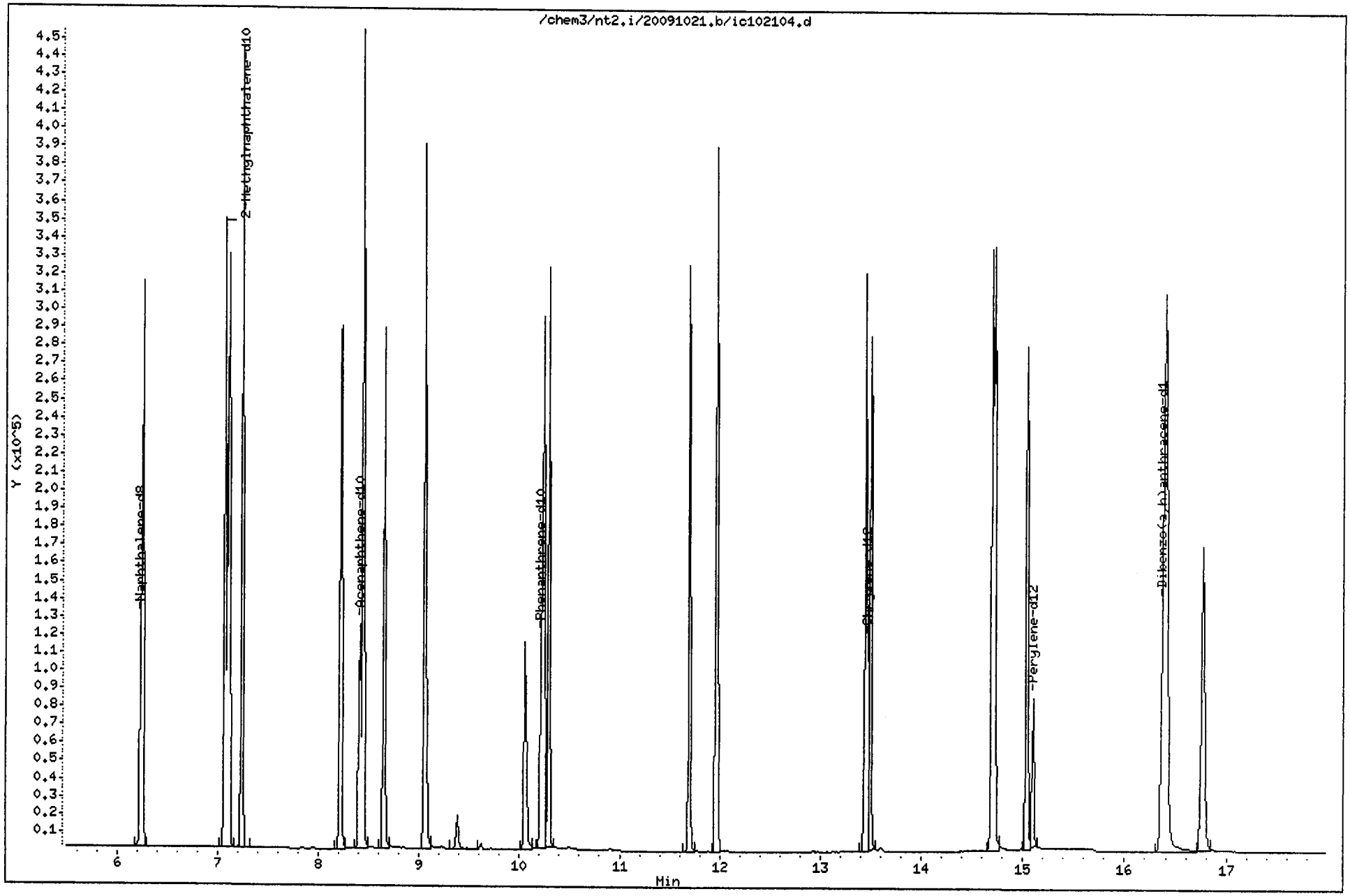
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
4 Naphthalene-d8	6.23	5.73	6.73	6.23	0.02
11 Acenaphthene-d10	8.42	7.92	8.92	8.42	-0.01
18 Phenanthrene-d10	10.21	9.71	10.71	10.21	0.01
29 Chrysene-d12	13.47	12.97	13.97	13.47	0.00
35 Perylene-d12	15.11	14.61	15.61	15.10	-0.04

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem3/nt2.i/20091021.b/ic102104.d
Date : 21-OCT-2009 12:45
Client ID:
Sample Info: PNA 500
Volume Injected (uL): 2.0
Column phase: ZB-5

Instrument: nt2.i

Operator: VTS
Column diameter: 0.25



Analytical Resources, Inc.

Data file : /chem3/nt2.i/20091021.b/ic102105.d
Lab Smp Id: PNA 50
Inj Date : 21-OCT-2009 13:07
Operator : VTS Inst ID: nt2.i
Smp Info : PNA 50
Misc Info :
Comment :
Method : /chem3/nt2.i/20091021.b/lowsim.m
Meth Date : 21-Oct-2009 14:44 peter Quant Type: ISTD
Cal Date : 21-OCT-2009 13:30 Cal File: ic102106.d
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pna1mn.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Vt / Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Final Extract Volume (uL)
Vo	500.00000	Sample Volume extracted (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)
*	4 Naphthalene-d8	136	6.227	6.226	(1.000)	163275	200.000	
	5 Naphthalene	128	6.258	6.257	(1.005)	38985	50.0000	49.6
$	6 2-Methylnaphthalene-d10	152	7.073	7.073	(1.136)	21260	50.0000	50.6
	7 2-Methylnaphthalene	142	7.104	7.103	(1.141)	23267	50.0000	50.7
	8 1-Methylnaphthalene	142	7.243	7.242	(1.163)	24627	50.0000	51.6
	10 Acenaphthylene	152	8.223	8.211	(0.977)	31701	50.0000	50.0
*	11 Acenaphthene-d10	164	8.416	8.417	(1.000)	80083	200.000	
	12 Acenaphthene	153	8.442	8.443	(1.003)	19885	50.0000	50.6
	14 Dibenzofuran	168	8.648	8.649	(1.028)	24348	50.0000	47.5
	15 Fluorene	166	9.055	9.054	(1.076)	20253	50.0000	47.8
*	18 Phenanthrene-d10	188	10.209	10.208	(1.000)	130872	200.000	
	19 Phenanthrene	178	10.240	10.239	(1.003)	32448	50.0000	49.9
	20 Anthracene	178	10.286	10.285	(1.008)	33306	50.0000	50.1(M)
	24 Fluoranthene	202	11.690	11.691	(1.145)	34966	50.0000	49.4
	25 Pyrene	202	11.965	11.966	(1.172)	35825	50.0000	49.8

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)
	28 Benzo(a)anthracene	228	13.446	13.447	(0.998)	29378	50.0000	49.3
*	29 Chrysene-d12	240	13.468	13.469	(1.000)	119291	200.000	
	30 Chrysene	228	13.490	13.491	(1.002)	29074	50.0000	49.5
	32 Benzo(b)fluoranthene	252	14.696	14.695	(0.973)	29110	50.0000	46.4
	33 Benzo(k)fluoranthene	252	14.719	14.718	(0.975)	35514	50.0000	52.1
	34 Benzo(a)pyrene	252	15.036	15.036	(0.996)	23775	50.0000	48.3
*	35 Perylene-d12	264	15.098	15.098	(1.000)	109601	200.000	
	37 Indeno(1,2,3-cd)pyrene	276	16.398	16.399	(1.086)	27247	50.0000	47.8
$	36 Dibenzo(a,h)anthracene-d14	292	16.371	16.372	(1.084)	15984	50.0000	48.1
	38 Dibenzo(a,h)anthracene	278	16.411	16.413	(1.087)	21232	50.0000	47.6
	39 Benzo(g,h,i)perylene	276	16.762	16.763	(1.110)	23792	50.0000	48.4

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt2.i
Lab File ID: ic102105.d
Lab Smp Id: PNA 50
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt2.i/20091021.b/lowsim.m
Misc Info:

Calibration Date: 21-OCT-2009
Calibration Time: 11:37

Level: LOW
Sample Type: WATER

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
4 Naphthalene-d8	173109	86554	346218	163275	-5.68
11 Acenaphthene-d10	96677	48338	193354	80083	-17.16
18 Phenanthrene-d10	147750	73875	295500	130872	-11.42
29 Chrysene-d12	135219	67610	270438	119291	-11.78
35 Perylene-d12	125815	62908	251630	109601	-12.89

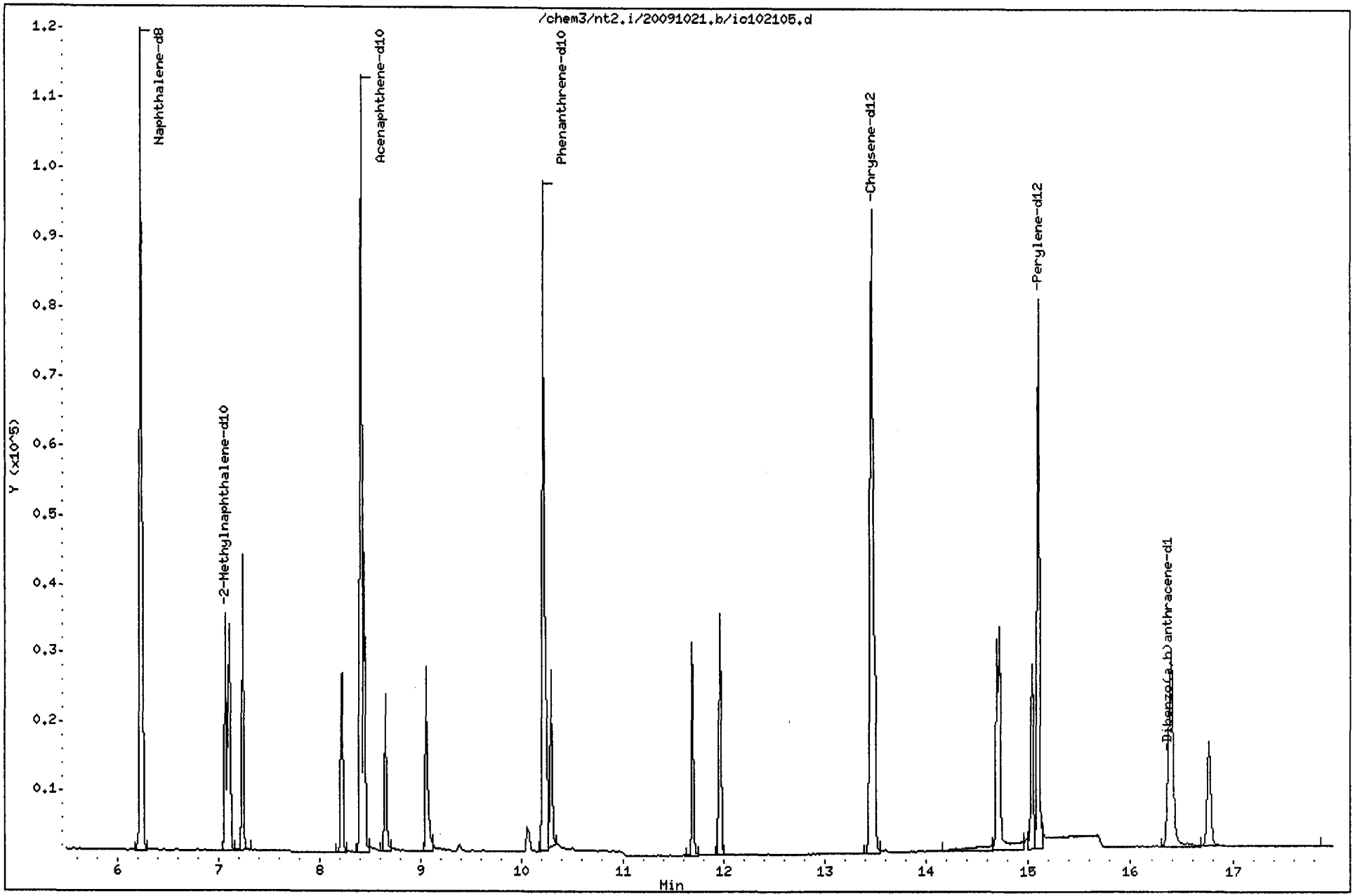
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
4 Naphthalene-d8	6.23	5.73	6.73	6.23	0.01
11 Acenaphthene-d10	8.42	7.92	8.92	8.42	-0.01
18 Phenanthrene-d10	10.21	9.71	10.71	10.21	0.01
29 Chrysene-d12	13.47	12.97	13.97	13.47	-0.01
35 Perylene-d12	15.11	14.61	15.61	15.10	-0.05

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

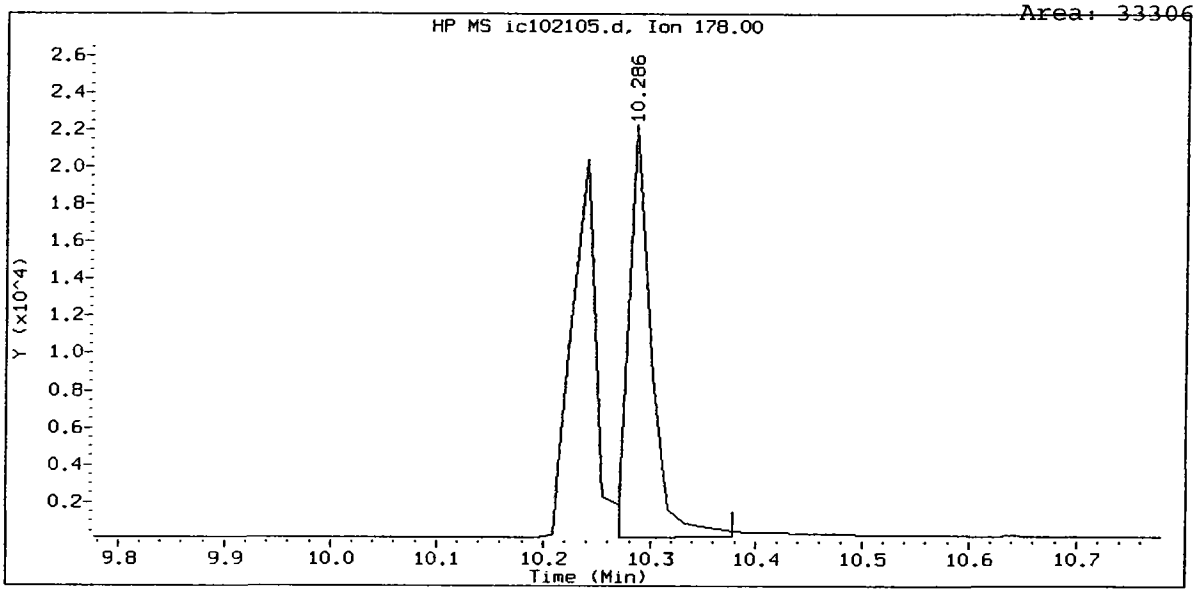
Data File: /chem3/nt2.i/20091021.b/ic102105.d
Date : 21-OCT-2009 13:07
Client ID:
Sample Info: PNA 50
Volume Injected (uL): 2.0
Column phase: ZB-5

Instrument: nt2.i

Operator: VTS
Column diameter: 0.25



PNA 50, /chem3/nt2.i/20091021.b/ic102105.d
Anthracene Amount: 50.11



Analytical Resources, Inc.

Data file : /chem3/nt2.i/20091021.b/ic102106.d
Lab Smp Id: PNA 100
Inj Date : 21-OCT-2009 13:30
Operator : VTS Inst ID: nt2.i
Smp Info : PNA 100
Misc Info :
Comment :
Method : /chem3/nt2.i/20091021.b/lowsim.m
Meth Date : 21-Oct-2009 14:44 peter Quant Type: ISTD
Cal Date : 21-OCT-2009 13:30 Cal File: ic102106.d
Als bottle: 6 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pnalmn.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Vt / Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Final Extract Volume (uL)
Vo	500.00000	Sample Volume extracted (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)
*	4 Naphthalene-d8	136	6.226	6.226	(1.000)	164822	200.000	
	5 Naphthalene	128	6.257	6.257	(1.005)	80143	100.000	101
$	6 2-Methylnaphthalene-d10	152	7.073	7.073	(1.136)	43274	100.000	102
	7 2-Methylnaphthalene	142	7.103	7.103	(1.141)	46322	100.000	100
	8 1-Methylnaphthalene	142	7.242	7.242	(1.163)	47828	100.000	99.3
	10 Acenaphthylene	152	8.211	8.211	(0.976)	64025	100.000	98.5
*	11 Acenaphthene-d10	164	8.417	8.417	(1.000)	82096	200.000	
	12 Acenaphthene	153	8.443	8.443	(1.003)	40010	100.000	99.2
	14 Dibenzofuran	168	8.649	8.649	(1.028)	50428	100.000	96.0
	15 Fluorene	166	9.054	9.054	(1.076)	43093	100.000	99.2
*	18 Phenanthrene-d10	188	10.208	10.208	(1.000)	134536	200.000	
	19 Phenanthrene	178	10.239	10.239	(1.003)	63391	100.000	94.8
	20 Anthracene	178	10.285	10.285	(1.008)	65630	100.000	96.0(M)
	24 Fluoranthene	202	11.691	11.691	(1.145)	70393	100.000	96.6
	25 Pyrene	202	11.966	11.966	(1.172)	71068	100.000	96.1

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)
	28 Benzo(a)anthracene	228	13.447	13.447	(0.998)	59894	100.000	97.8
*	29 Chrysene-d12	240	13.469	13.469	(1.000)	122702	200.000	
	30 Chrysene	228	13.491	13.491	(1.002)	58075	100.000	96.1
	32 Benzo(b)fluoranthene	252	14.695	14.695	(0.973)	58281	100.000	91.1
	33 Benzo(k)fluoranthene	252	14.718	14.718	(0.975)	72247	100.000	104
	34 Benzo(a)pyrene	252	15.036	15.036	(0.996)	48565	100.000	96.9
*	35 Perylene-d12	264	15.098	15.098	(1.000)	111608	200.000	
	37 Indeno(1,2,3-cd)pyrene	276	16.399	16.399	(1.086)	55270	100.000	95.2
$	36 Dibenzo(a,h)anthracene-d14	292	16.372	16.372	(1.084)	32766	100.000	96.9
	38 Dibenzo(a,h)anthracene	278	16.413	16.413	(1.087)	43620	100.000	96.1
	39 Benzo(g,h,i)perylene	276	16.763	16.763	(1.110)	48420	100.000	96.7

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt2.i
Lab File ID: ic102106.d
Lab Smp Id: PNA 100
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt2.i/20091021.b/lowsim.m
Misc Info:

Calibration Date: 21-OCT-2009
Calibration Time: 11:37

Level: LOW
Sample Type: WATER

Test Mode:
Use Initial Calibration Level 4.

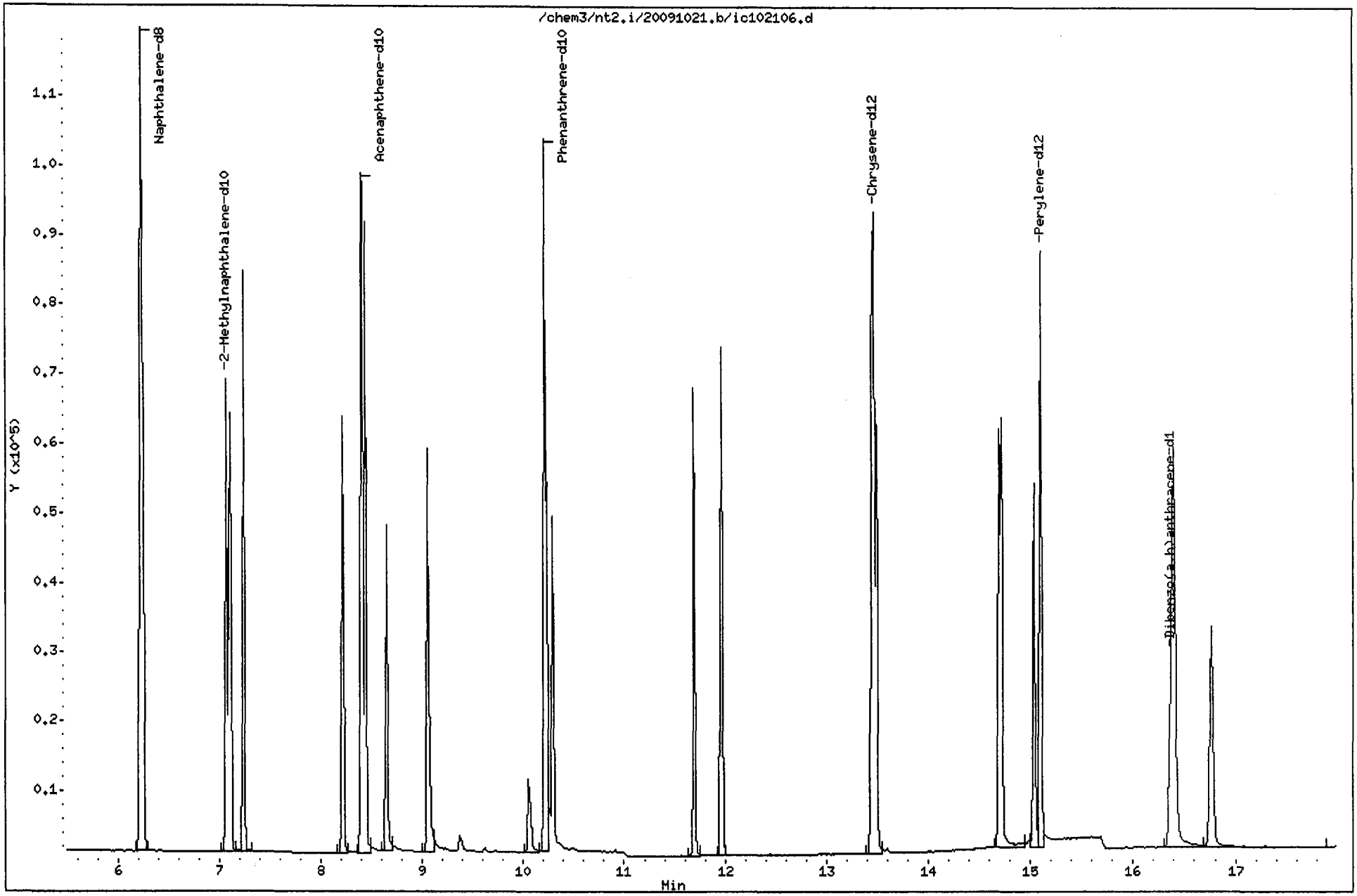
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
4 Naphthalene-d8	173109	86554	346218	164822	-4.79
11 Acenaphthene-d10	96677	48338	193354	82096	-15.08
18 Phenanthrene-d10	147750	73875	295500	134536	-8.94
29 Chrysene-d12	135219	67610	270438	122702	-9.26
35 Perylene-d12	125815	62908	251630	111608	-11.29

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
4 Naphthalene-d8	6.23	5.73	6.73	6.23	0.00
11 Acenaphthene-d10	8.42	7.92	8.92	8.42	0.00
18 Phenanthrene-d10	10.21	9.71	10.71	10.21	0.00
29 Chrysene-d12	13.47	12.97	13.97	13.47	0.00
35 Perylene-d12	15.11	14.61	15.61	15.10	-0.05

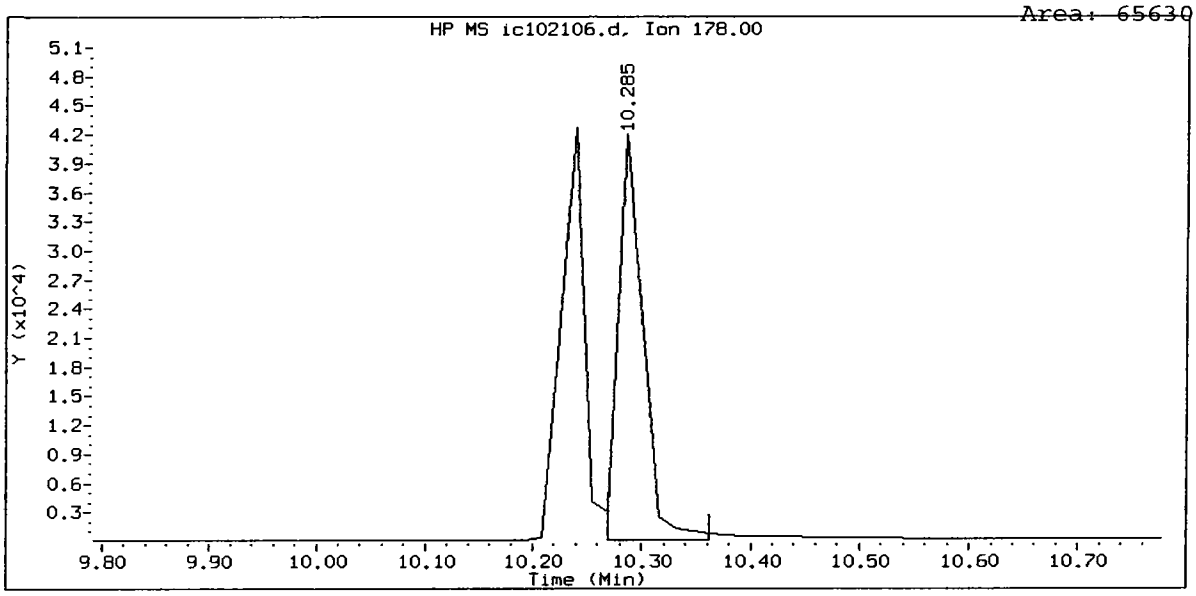
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem3/nt2.i/20091021.b/ic102106.d
Date : 21-OCT-2009 13:30
Client ID:
Sample Info: PNA 100
Volume Injected (uL): 2.0
Column phase: ZB-5

Instrument: nt2.i
Operator: VTS
Column diameter: 0.25



PNA 100, /chem3/nt2.i/20091021.b/ic102106.d
Anthracene Amount: 96.05



Analytical Resources, Inc.

Data file : /chem3/nt2.i/20091021.b/ic102107.d
Lab Smp Id: ICV
Inj Date : 21-OCT-2009 13:52
Operator : VTS Inst ID: nt2.i
Smp Info : ICV
Misc Info :
Comment :
Method : /chem3/nt2.i/20091021.b/lowsim.m
Meth Date : 21-Oct-2009 14:46 peter Quant Type: ISTD
Cal Date : 21-OCT-2009 13:30 Cal File: ic102106.d
Als bottle: 7 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pnalmn.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Vt / Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Final Extract Volume (uL)
Vo	500.00000	Sample Volume extracted (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/mL)	FINAL (ng/L)
*	4 Naphthalene-d8	136	6.227	6.226	(1.000)	158208	200.000	
	5 Naphthalene	128	6.258	6.257	(1.005)	212775	279.299	279
$	6 2-Methylnaphthalene-d10	152	Compound Not Detected.					
	7 2-Methylnaphthalene	142	7.104	7.103	(1.141)	127290	286.517	287
	8 1-Methylnaphthalene	142	7.243	7.242	(1.163)	127749	276.275	276
	10 Acenaphthylene	152	8.210	8.211	(0.976)	188049	288.176	288
*	11 Acenaphthene-d10	164	8.417	8.417	(1.000)	82458	200.000	
	12 Acenaphthene	153	8.442	8.443	(1.003)	111957	276.480	276
	14 Dibenzofuran	168	8.649	8.649	(1.028)	166353	315.332	315(R)
	15 Fluorene	166	9.055	9.054	(1.076)	131841	302.310	302
*	18 Phenanthrene-d10	188	10.209	10.208	(1.000)	134236	200.000	
	19 Phenanthrene	178	10.240	10.239	(1.003)	174636	261.741	262
	20 Anthracene	178	10.286	10.285	(1.008)	182670	267.928	268
	24 Fluoranthene	202	11.691	11.691	(1.145)	190861	262.637	263
	25 Pyrene	202	11.965	11.966	(1.172)	194465	263.617	264

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/mL)	CONCENTRATIONS FINAL (ng/L)
	28 Benzo(a)anthracene	228	13.447	13.447	(0.998)	160274	276.584	277
*	29 Chrysene-d12	240	13.469	13.469	(1.000)	116103	200.000	
	30 Chrysene	228	13.490	13.491	(1.002)	165864	290.113	290
	32 Benzo(b)fluoranthene	252	14.694	14.695	(0.973)	151948	250.880	251
	33 Benzo(k)fluoranthene	252	14.717	14.718	(0.975)	202487	307.921	308
	34 Benzo(a)pyrene	252	15.035	15.036	(0.996)	138813	292.512	293
*	35 Perylene-d12	264	15.097	15.098	(1.000)	105713	200.000	
	37 Indeno(1,2,3-cd)pyrene	276	16.399	16.399	(1.086)	153123	278.443	278
$	36 Dibenzo(a,h)anthracene-d14	292	Compound Not Detected.					
	38 Dibenzo(a,h)anthracene	278	16.412	16.413	(1.087)	120941	281.166	281
	39 Benzo(g,h,i)perylene	276	16.763	16.763	(1.110)	129353	272.784	273

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt2.i
Lab File ID: ic102107.d
Lab Smp Id: ICV
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt2.i/20091021.b/lowsim.m
Misc Info:

Calibration Date: 21-OCT-2009
Calibration Time: 11:37

Level: LOW
Sample Type: WATER

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
4 Naphthalene-d8	173109	86554	346218	158208	-8.61
11 Acenaphthene-d10	96677	48338	193354	82458	-14.71
18 Phenanthrene-d10	147750	73875	295500	134236	-9.15
29 Chrysene-d12	135219	67610	270438	116103	-14.14
35 Perylene-d12	125815	62908	251630	105713	-15.98

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
4 Naphthalene-d8	6.23	5.73	6.73	6.23	0.02
11 Acenaphthene-d10	8.42	7.92	8.92	8.42	-0.01
18 Phenanthrene-d10	10.21	9.71	10.71	10.21	0.01
29 Chrysene-d12	13.47	12.97	13.97	13.47	-0.01
35 Perylene-d12	15.11	14.61	15.61	15.10	-0.06

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Client SDG: 20091021
Sample Matrix: LIQUID Fraction: SV
Lab Smp Id: ICV
Level: LOW Operator: VTS
Data Type: MS DATA SampleType: LCS
SpikeList File: waterlcs.spk Quant Type: ISTD
Sublist File: pna1mn.sub
Method File: /chem3/nt2.i/20091021.b/lowsim.m
Misc Info:

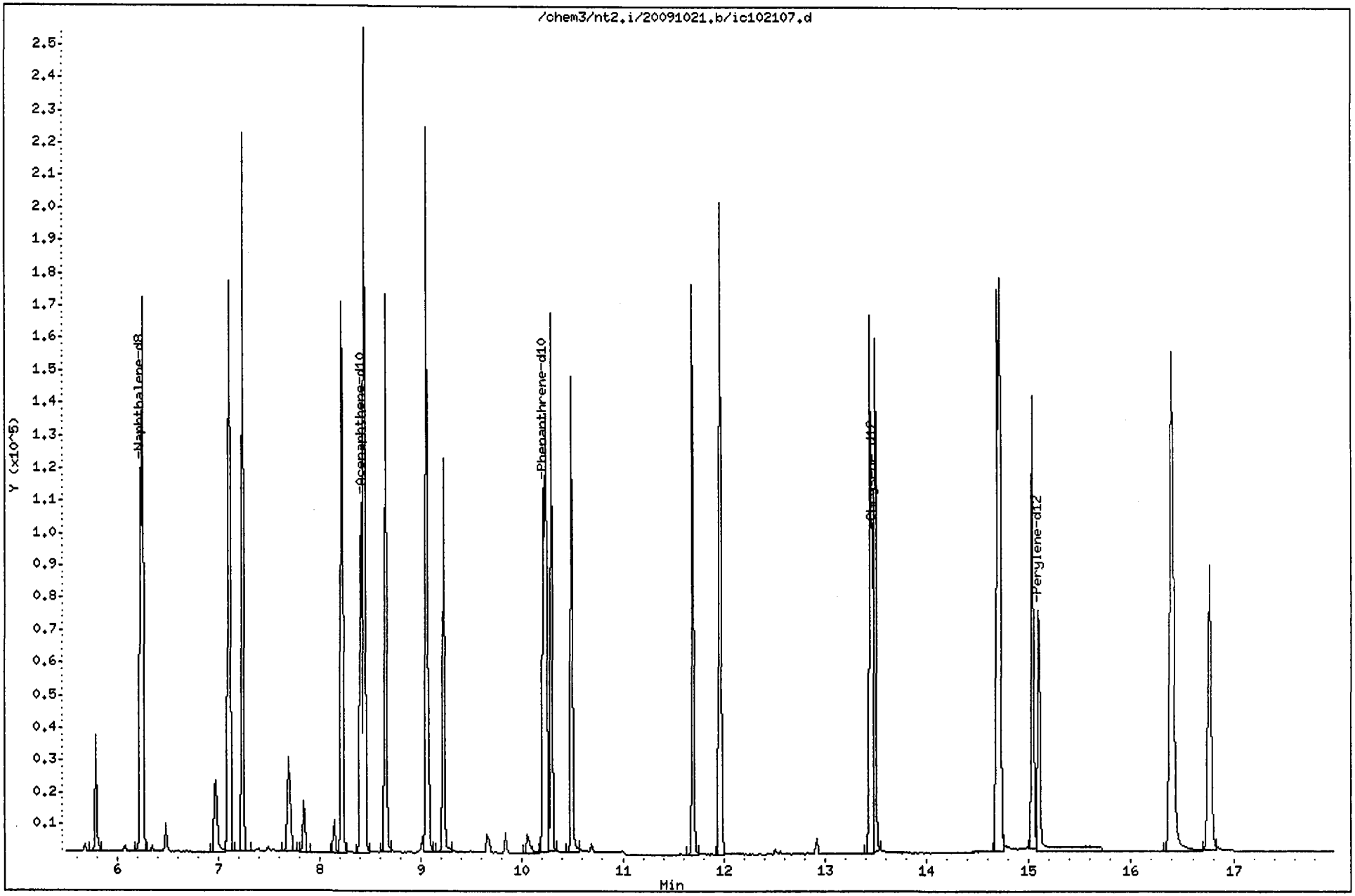
SPIKE COMPOUND	CONC ADDED ng/L	CONC RECOVERED ng/L	% RECOVERED	LIMITS
5 Naphthalene	300	279	93.10	41-101
7 2-Methylnaphthalen	300	287	95.51	47-100
8 1-Methylnaphthalen	300	276	92.09	30-160
10 Acenaphthylene	300	288	96.06	35-100
12 Acenaphthene	300	276	92.16	43-104
14 Dibenzofuran	300	315	105.11*	37-100
15 Fluorene	300	302	100.77	51-103
19 Phenanthrene	300	262	87.25	55-109
20 Anthracene	300	268	89.31	30-101
24 Fluoranthene	300	263	87.55	49-123
25 Pyrene	300	264	87.87	48-120
28 Benzo(a)anthracene	300	277	92.19	43-113
30 Chrysene	300	290	96.70	59-112
32 Benzo(b)fluoranthe	300	251	83.63	44-121
33 Benzo(k)fluoranthe	300	308	102.64	50-117
34 Benzo(a)pyrene	300	293	97.50	10-100
37 Indeno(1,2,3-cd)py	300	278	92.81	43-112
38 Dibenzo(a,h)anthra	300	281	93.72	42-114
39 Benzo(g,h,i)peryle	300	273	90.93	31-118

SURROGATE COMPOUND	CONC ADDED ng/L	CONC RECOVERED ng/L	% RECOVERED	LIMITS
$ 6 2-Methylnaphthale	300	0.00	*	31-109
$ 36 Dibenzo(a,h)anthr	300	0.00	*	10-133

Data File: /chem3/nt2.i/20091021.b/ic102107.d
Date : 21-OCT-2009 13:52
Client ID:
Sample Info: ICV
Volume Injected (uL): 2.0
Column phase: ZB-5

Instrument: nt2.i

Operator: VTS
Column diameter: 0.25



7B

SEMIVOLATILE 8270-D CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

ARI Job No: QL58 Project: LORA LAKE APARTMENTS

Instrument ID: NT2 Cont. Calib. Date: 03/04/10

Init. Calib. Date: 10/21/09 Cont. Calib. Time: 1053

COMPOUND	CalAmt or ARF	CC Amt or RF	MIN RRF	CURVE TYPE	%D or Drift
Naphthalene	0.963	0.934	0.700	AVRG	-3.0
2-Methylnaphthalene	0.562	0.573	0.400	AVRG	2.0
Acenaphthylene	1.583	1.682	0.900	AVRG	6.2
Acenaphthene	0.982	1.068	0.900	AVRG	8.8
Dibenzofuran	1.280	1.491	0.800	AVRG	16.5
Fluorene	1.058	1.162	0.900	AVRG	9.8
Phenanthrene	0.994	1.108	0.700	AVRG	11.5
Anthracene	1.016	1.087	0.700	AVRG	7.0
Fluoranthene	1.083	1.148	0.600	AVRG	6.0
Pyrene	1.099	1.205	0.600	AVRG	9.6
Benzo(a)anthracene	0.998	1.093	0.800	AVRG	9.5
Chrysene	0.985	1.103	0.700	AVRG	12.0
Benzo(b)fluoranthene	1.146	1.099	0.700	AVRG	-4.1
Benzo(k)fluoranthene	1.244	1.490	0.700	AVRG	19.8
Benzo(a)pyrene	0.898	0.976	0.700	AVRG	8.7
Indeno(1,2,3-cd)pyrene	1.040	1.010	0.500	AVRG	-2.9
Dibenzo(a,h)anthracene	0.814	0.781	0.400	AVRG	-4.0
Benzo(g,h,i)perylene	0.897	0.834	0.500	AVRG	-7.0
1-Methylnaphthalene	0.584	0.574	0.010	AVRG	-1.7
2-Methylnaphthalene-d10	0.515	0.543	0.010	AVRG	5.4
Dibenzo(a,h)anthracene-d14	0.606	0.605	0.010	AVRG	-0.2

<- Exceeds QC limit of 20% D
* RF less than minimum RF

FORM VII SV-1

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt2.i Injection Date: 04-MAR-2010 10:53
Lab File ID: cc0304.d Init. Cal. Date(s): 21-OCT-2009 21-OCT-2009
Analysis Type: WATER Init. Cal. Times: 11:37 13:30
Lab Sample ID: PNA 250 Quant Type: ISTD
Method: /chem3/nt2.i/20100304.b/lowsim.m

COMPOUND	RRF / AMOUNT	RF250	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
5 Naphthalene	0.96306	0.93408	0.010	-3.00927	20.00000	Averaged
$ 6 2-Methylnaphthalene-d10	0.51513	0.54319	0.010	5.44746	20.00000	Averaged
7 2-Methylnaphthalene	0.56162	0.57295	0.010	2.01692	20.00000	Averaged
8 1-Methylnaphthalene	0.58455	0.57411	0.010	-1.78532	20.00000	Averaged
10 Acenaphthylene	1.58274	1.68219	0.010	6.28334	20.00000	Averaged
12 Acenaphthene	0.98217	1.06761	0.010	8.69921	20.00000	Averaged
14 Dibenzofuran	1.27956	1.49081	0.010	16.50931	20.00000	Averaged
15 Fluorene	1.05778	1.16155	0.010	9.81028	20.00000	Averaged
19 Phenanthrene	0.99408	1.10803	0.010	11.46270	20.00000	Averaged
20 Anthracene	1.01580	1.08681	0.010	6.99068	20.00000	Averaged
24 Fluoranthene	1.08274	1.14758	0.010	5.98883	20.00000	Averaged
25 Pyrene	1.09908	1.20521	0.010	9.65679	20.00000	Averaged
28 Benzo(a)anthracene	0.99821	1.09267	0.010	9.46320	20.00000	Averaged
30 Chrysene	0.98485	1.10265	0.010	11.96067	20.00000	Averaged
32 Benzo(b)fluoranthene	1.14586	1.09895	0.010	-4.09370	20.00000	Averaged
33 Benzo(k)fluoranthene	1.24411	1.49036	0.010	19.79320	20.00000	Averaged
34 Benzo(a)pyrene	0.89782	0.97642	0.010	8.75484	20.00000	Averaged
37 Indeno(1,2,3-cd)pyrene	1.04041	1.01021	0.010	-2.90268	20.00000	Averaged
$ 36 Dibenzo(a,h)anthracene-d14	0.60622	0.60512	0.010	-0.18197	20.00000	Averaged
38 Dibenzo(a,h)anthracene	0.81379	0.78100	0.010	-4.02968	20.00000	Averaged
39 Benzo(g,h,i)perylene	0.89714	0.83372	0.010	-7.06870	20.00000	Averaged

Analytical Resources, Inc.

LOW LEVEL PNAs BY SW8270D-SIM

Data file : /chem3/nt2.i/20100304.b/cc0304.d
Lab Smp Id: PNA 250
Inj Date : 04-MAR-2010 10:53
Operator : VTS Inst ID: nt2.i
Smp Info : PNA 250
Misc Info :
Comment :
Method : /chem3/nt2.i/20100304.b/lowsim.m
Meth Date : 04-Mar-2010 12:23 peter Quant Type: ISTD
Cal Date : 21-OCT-2009 13:30 Cal File: ic102106.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pna1mn.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt / Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Final Extract Volume (uL)
Vo	500.00000	Sample Volume extracted (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)
* 4 Naphthalene-d8	136	6.967	6.967	(1.000)	263993	200.000	
5 Naphthalene	128	6.982	6.982	(1.002)	308238	250.000	242
$ 6 2-Methylnaphthalene-d10	152	7.813	7.813	(1.121)	179248	250.000	264
7 2-Methylnaphthalene	142	7.844	7.844	(1.126)	189069	250.000	255
8 1-Methylnaphthalene	142	7.982	7.982	(1.146)	189451	250.000	246
10 Acenaphthylene	152	8.969	8.969	(0.979)	254837	250.000	266
* 11 Acenaphthene-d10	164	9.162	9.162	(1.000)	121193	200.000	
12 Acenaphthene	153	9.201	9.201	(1.004)	161733	250.000	272
14 Dibenzofuran	168	9.407	9.407	(1.027)	225844	250.000	291
15 Fluorene	166	9.817	9.817	(1.071)	175965	250.000	275
* 18 Phenanthrene-d10	188	11.002	11.002	(1.000)	179277	200.000	
19 Phenanthrene	178	11.017	11.017	(1.001)	248306	250.000	279
20 Anthracene	178	11.078	11.078	(1.007)	243551	250.000	267
24 Fluoranthene	202	12.505	12.505	(1.137)	257168	250.000	265
25 Pyrene	202	12.780	12.780	(1.162)	270084	250.000	274
28 Benzo(a)anthracene	228	14.261	14.261	(0.998)	229699	250.000	274

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	ON-COL (ng/mL)
*	29 Chrysene-d12	240	14.283	14.283	(1.000)	168174	200.000	
	30 Chrysene	228	14.316	14.316	(1.002)	231796	250.000	280
	32 Benzo(b)fluoranthene	252	15.572	15.572	(0.968)	215512	250.000	240
	33 Benzo(k)fluoranthene	252	15.595	15.595	(0.969)	292271	250.000	299
	34 Benzo(a)pyrene	252	16.006	16.006	(0.995)	191483	250.000	272
*	35 Perylene-d12	264	16.091	16.091	(1.000)	156886	200.000	
	37 Indeno(1,2,3-cd)pyrene	276	17.873	17.873	(1.111)	198110	250.000	243
$	36 Dibenzo(a,h)anthracene-d14	292	17.820	17.820	(1.107)	118668	250.000	250
	38 Dibenzo(a,h)anthracene	278	17.887	17.887	(1.112)	153159	250.000	240(M)
	39 Benzo(g,h,i)perylene	276	18.399	18.399	(1.143)	163499	250.000	232

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt2.i
Lab File ID: cc0304.d
Lab Smp Id: PNA 250
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt2.i/20100304.b/lowsim.m
Misc Info:

Calibration Date: 04-MAR-2010
Calibration Time: 10:08

Level: LOW
Sample Type: WATER

Test Mode:
Use Initial Calibration Level 4.

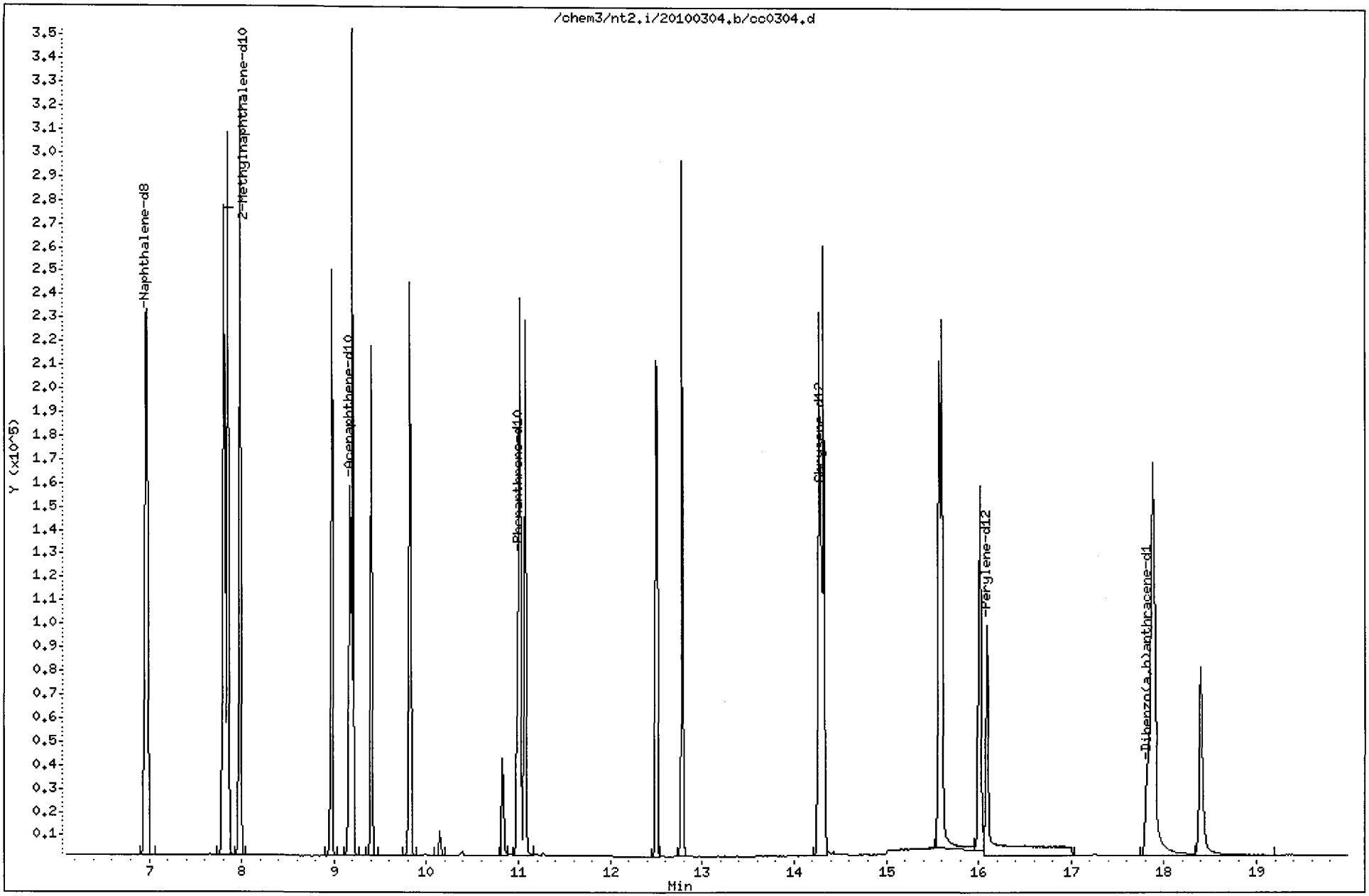
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
4 Naphthalene-d8	173109	86554	346218	263993	52.50
11 Acenaphthene-d10	96677	48338	193354	121193	25.36
18 Phenanthrene-d10	147750	73875	295500	179277	21.34
29 Chrysene-d12	135219	67610	270438	168174	24.37
35 Perylene-d12	125815	62908	251630	156886	24.70

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
4 Naphthalene-d8	6.97	6.47	7.47	6.97	0.00
11 Acenaphthene-d10	9.16	8.66	9.66	9.16	0.00
18 Phenanthrene-d10	11.00	10.50	11.50	11.00	0.00
29 Chrysene-d12	14.28	13.78	14.78	14.28	0.00
35 Perylene-d12	16.09	15.59	16.59	16.09	0.00

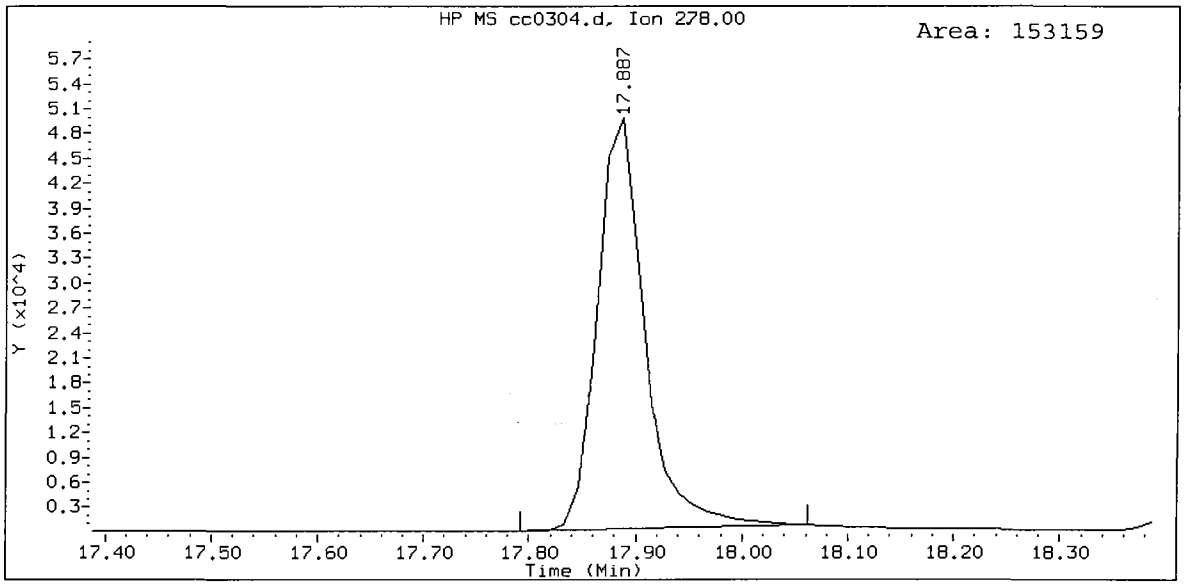
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem3/nt2.i/20100304.b/cc0304.d
Date : 04-MAR-2010 10:53
Client ID:
Sample Info: PNA 250
Volume Injected (uL): 2.0
Column phase: ZB-5

Instrument: nt2.i
Operator: VTS
Column diameter: 0.25



PNA 250, /chem3/nt2.i/20100304.b/cc0304.d
Dibenzo(a,h)anthracene Amount: 239.93



SIM Semivolatile Analysis
QC Raw Data

prepared
for

Floyd/Snider

Project: Lora Lake Apartments, POS-LLA

ARI JOB NO: QL58

prepared
by

Analytical Resources, Inc.

Data File: /chem3/nt2.i/20091021.b/df1021.d

Date : 21-OCT-2009 10:55

Client ID:

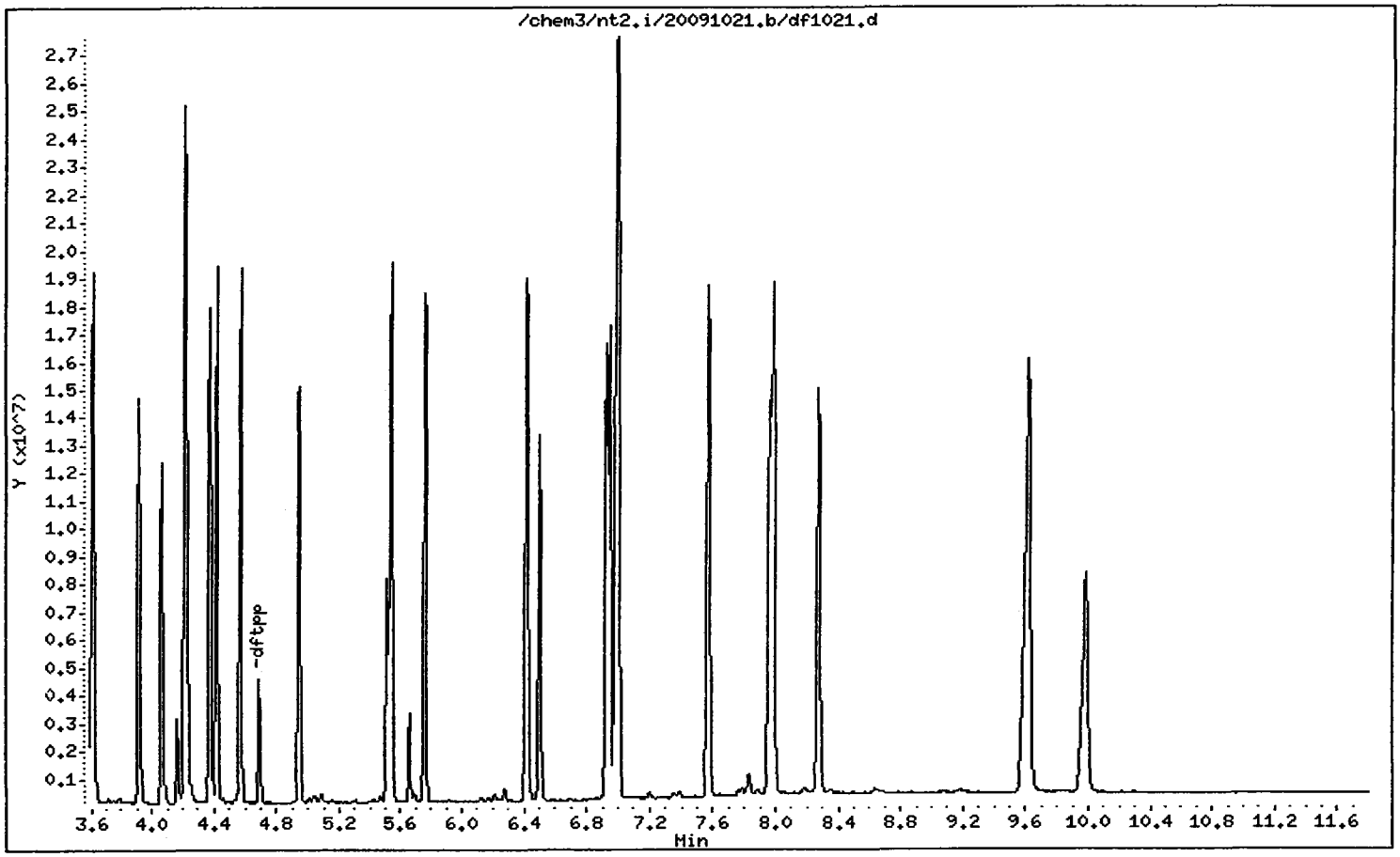
Instrument: nt2.i

Sample Info: DFTPP

Operator: VTS

Column phase:

Column diameter: 0.25



Data File: /chem3/nt2.i/20091021.b/df1021.d

Date : 21-OCT-2009 10:55

Client ID:

Instrument: nt2.i

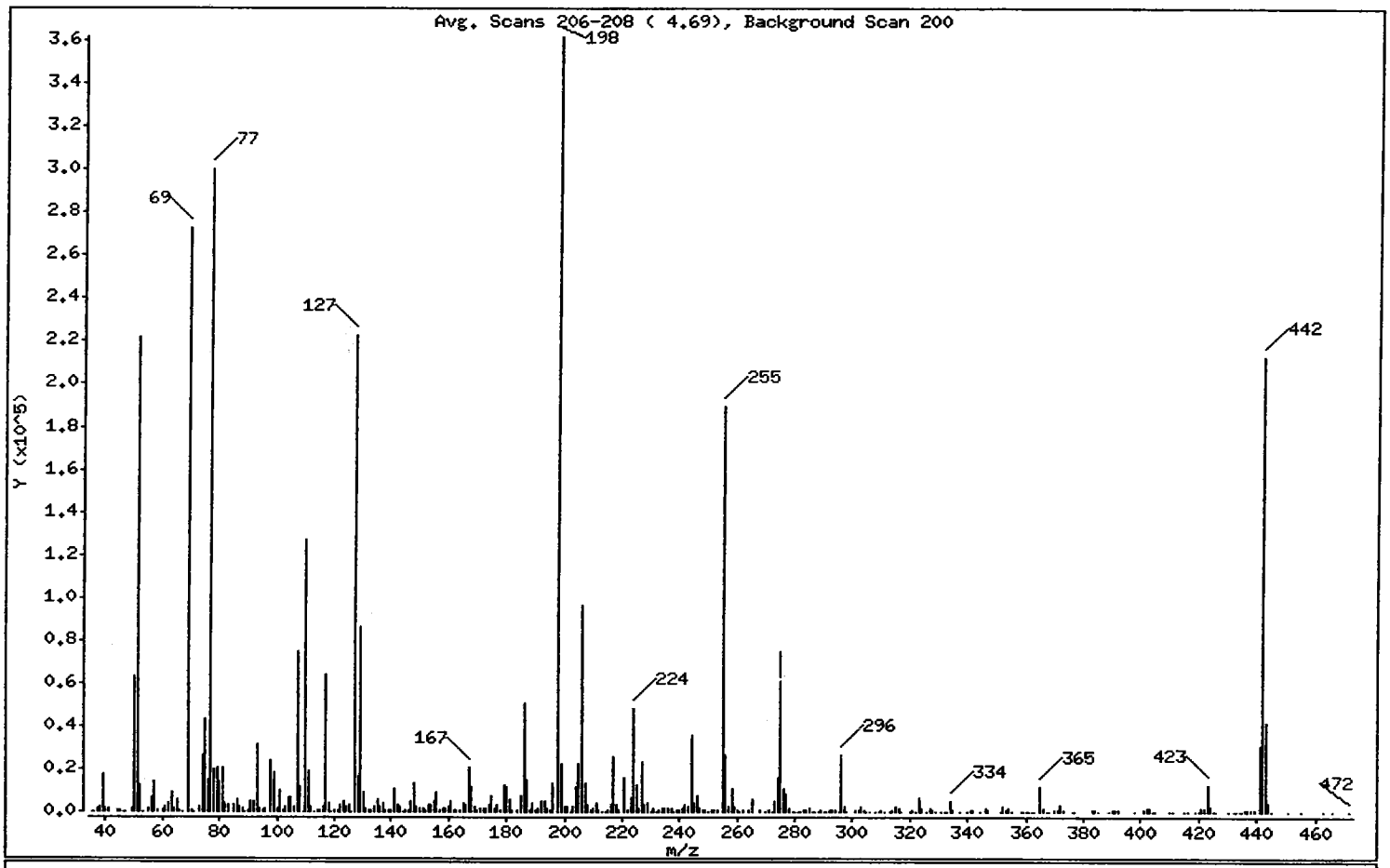
Sample Info: DFTPP

Operator: VTS

Column phase:

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	61.33
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	75.33
70	Less than 2.00% of mass 69	0.18 (0.24)
127	25.00 - 75.00% of mass 198	61.72
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.29
275	10.00 - 30.00% of mass 198	20.60
365	Greater than 0.75% of mass 198	3.13
441	Present, but less than mass 443	8.44
442	40.00 - 110.00% of mass 198	58.96
443	15.00 - 24.00% of mass 442	11.55 (19.59)

Data File: /chem3/nt2.i/20091021.b/df1021.d

Date : 21-OCT-2009 10:55

Client ID:

Instrument: nt2.i

Sample Info: DFTPP

Operator: VTS

Column phase:

Column diameter: 0.25

Data File: df1021.d
Spectrum: Avg. Scans 206-208 (4.69), Background Scan 200
Location of Maximum: 198.00
Number of points: 348

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	140	132.00	786	223.00	6281	322.00	387
36.00	258	133.00	482	224.00	48560	323.00	6932
37.00	1821	134.00	2296	225.00	12858	324.00	1682
38.00	2438	135.00	5831	226.00	1903	326.00	155
39.00	17824	136.00	2234	227.00	23440	327.00	1583
40.00	1467	137.00	4331	228.00	3110	328.00	718
41.00	1352	138.00	603	229.00	4228	329.00	89
44.00	525	139.00	507	230.00	274	331.00	203
45.00	920	140.00	831	231.00	1708	332.00	398
46.00	24	141.00	10585	232.00	197	333.00	301
47.00	298	142.00	3242	233.00	613	334.00	5004
49.00	1814	143.00	2107	234.00	1567	335.00	1226
50.00	62832	144.00	129	235.00	1387	337.00	126
51.00	221824	145.00	688	236.00	1573	340.00	217
52.00	12724	146.00	1174	237.00	1725	341.00	844
53.00	7	147.00	4765	238.00	343	342.00	438
55.00	1535	148.00	13285	239.00	963	344.00	93
56.00	6834	149.00	2419	240.00	787	346.00	1313
57.00	14117	150.00	1311	241.00	1253	347.00	605
58.00	526	151.00	1877	242.00	3340	351.00	188
60.00	1001	152.00	1053	243.00	2777	352.00	2123
61.00	2642	153.00	3601	244.00	35712	353.00	1231
62.00	3819	154.00	3395	245.00	4511	354.00	1740
63.00	8786	155.00	5170	246.00	7834	355.00	292
64.00	2038	156.00	8906	247.00	1485	358.00	192
65.00	6216	157.00	1127	248.00	534	359.00	79
66.00	672	158.00	1932	249.00	1246	360.00	71
67.00	277	159.00	1570	250.00	244	361.00	91
69.00	272448	160.00	2848	251.00	616	362.00	93
70.00	647	161.00	4617	252.00	465	363.00	194
71.00	304	162.00	868	253.00	809	365.00	11331
73.00	2649	163.00	497	255.00	189888	366.00	1793
74.00	26440	164.00	518	256.00	26896	367.00	89
75.00	43000	165.00	3954	257.00	2712	368.00	180
76.00	15032	166.00	3273	258.00	11027	370.00	437

Date : 21-OCT-2009 10:55

Client ID: Instrument: nt2.i

Sample Info: DFTPP

Operator: VTS

Column phase: Column diameter: 0.25

Data File: df1021.d
Spectrum: Avg. Scans 206-208 (4.69), Background Scan 200
Location of Maximum: 198.00
Number of points: 348

m/z	Y	m/z	Y	m/z	Y	m/z	Y
77.00	300480	167.00	20824	259.00	2690	371.00	980
78.00	19760	168.00	11796	260.00	640	372.00	3121
79.00	20416	169.00	2158	261.00	163	373.00	892
80.00	14353	170.00	782	262.00	453	376.00	93
81.00	20928	171.00	1266	264.00	614	377.00	67
82.00	4155	172.00	1541	265.00	6019	383.00	1241
83.00	3230	173.00	1703	268.00	581	384.00	436
85.00	2923	174.00	3645	270.00	389	385.00	86
86.00	6074	175.00	7459	271.00	781	389.00	74
87.00	2086	176.00	1832	272.00	120	390.00	445
88.00	1441	177.00	3007	273.00	5054	391.00	439
89.00	373	178.00	820	274.00	15967	392.00	473
90.00	474	179.00	12695	275.00	74520	398.00	104
91.00	5085	180.00	11643	276.00	10855	401.00	437
92.00	4813	181.00	5504	277.00	7917	402.00	1671
93.00	31840	182.00	1101	278.00	1413	403.00	2024
94.00	2029	184.00	1174	279.00	256	404.00	344
95.00	1016	185.00	7381	280.00	141	405.00	115
96.00	1253	186.00	50960	281.00	66	410.00	72
98.00	23928	187.00	15206	282.00	230	411.00	102
99.00	18344	188.00	643	283.00	726	415.00	104
100.00	1339	189.00	3765	284.00	890	416.00	67
101.00	10129	190.00	965	285.00	1307	419.00	83
102.00	1054	191.00	1539	286.00	342	420.00	298
103.00	2753	192.00	5162	287.00	95	421.00	1670
104.00	6614	193.00	5083	288.00	326	422.00	1737
105.00	6470	194.00	1511	289.00	483	423.00	12293
106.00	2642	195.00	1119	290.00	161	424.00	2904
107.00	74992	196.00	13307	291.00	281	425.00	238
108.00	11892	198.00	361664	292.00	709	426.00	226
109.00	413	199.00	22752	293.00	1121	430.00	336
110.00	126888	200.00	2477	294.00	826	432.00	132
111.00	18896	201.00	2343	295.00	231	433.00	247
112.00	2347	202.00	253	296.00	26512	434.00	234
113.00	374	203.00	2834	297.00	2694	435.00	199

Data File: /chem3/nt2.i/20091021.b/df1021.d

Date : 21-OCT-2009 10:55

Client ID:

Instrument: nt2.i

Sample Info: DFTPP

Operator: VTS

Column phase:

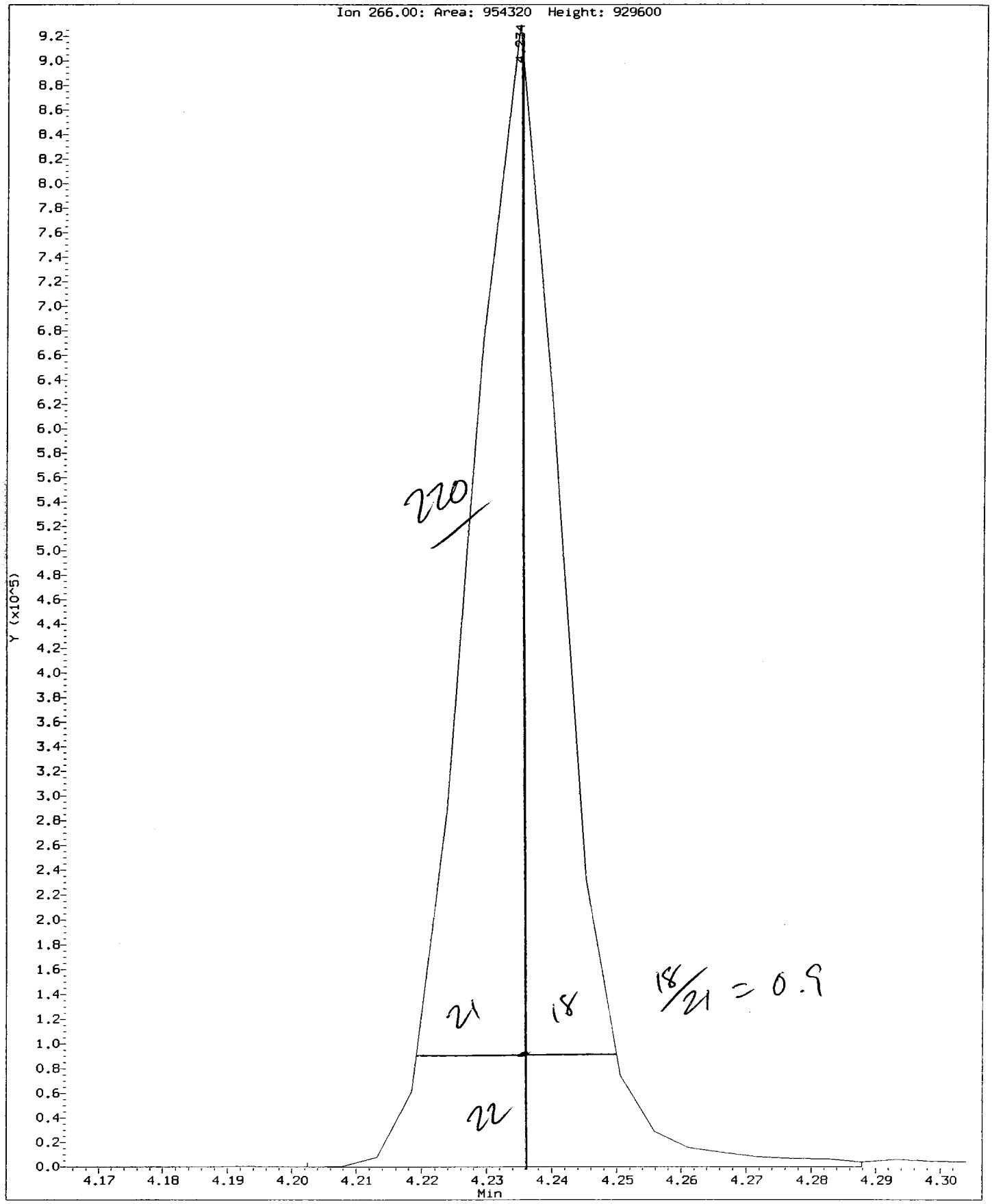
Column diameter: 0.25

Data File: df1021.d
Spectrum: Avg. Scans 206-208 (4.69), Background Scan 200
Location of Maximum: 198.00
Number of points: 348

m/z	Y	m/z	Y	m/z	Y	m/z	Y
114.00	686	204.00	11882	298.00	249	436.00	432
115.00	521	205.00	22336	301.00	520	437.00	706
116.00	2168	206.00	96336	302.00	539	438.00	1172
117.00	64256	207.00	12897	303.00	2585	439.00	1058
118.00	4114	208.00	3501	304.00	818	441.00	30512
119.00	285	209.00	906	305.00	70	442.00	213248
120.00	1227	210.00	1952	306.00	92	443.00	41784
121.00	744	211.00	4438	308.00	165	444.00	3786
122.00	3733	212.00	985	309.00	222	445.00	390
123.00	5140	213.00	69	310.00	546	451.00	71
124.00	2736	214.00	396	311.00	396	455.00	83
125.00	3032	215.00	843	313.00	381	463.00	76
126.00	194	216.00	2913	314.00	507	466.00	84
127.00	223232	217.00	25872	315.00	2667	472.00	160
128.00	16688	218.00	3337	316.00	1363		
129.00	86640	219.00	534	317.00	126		
130.00	8941	221.00	15590	320.00	170		
131.00	2045	222.00	1145	321.00	1067		

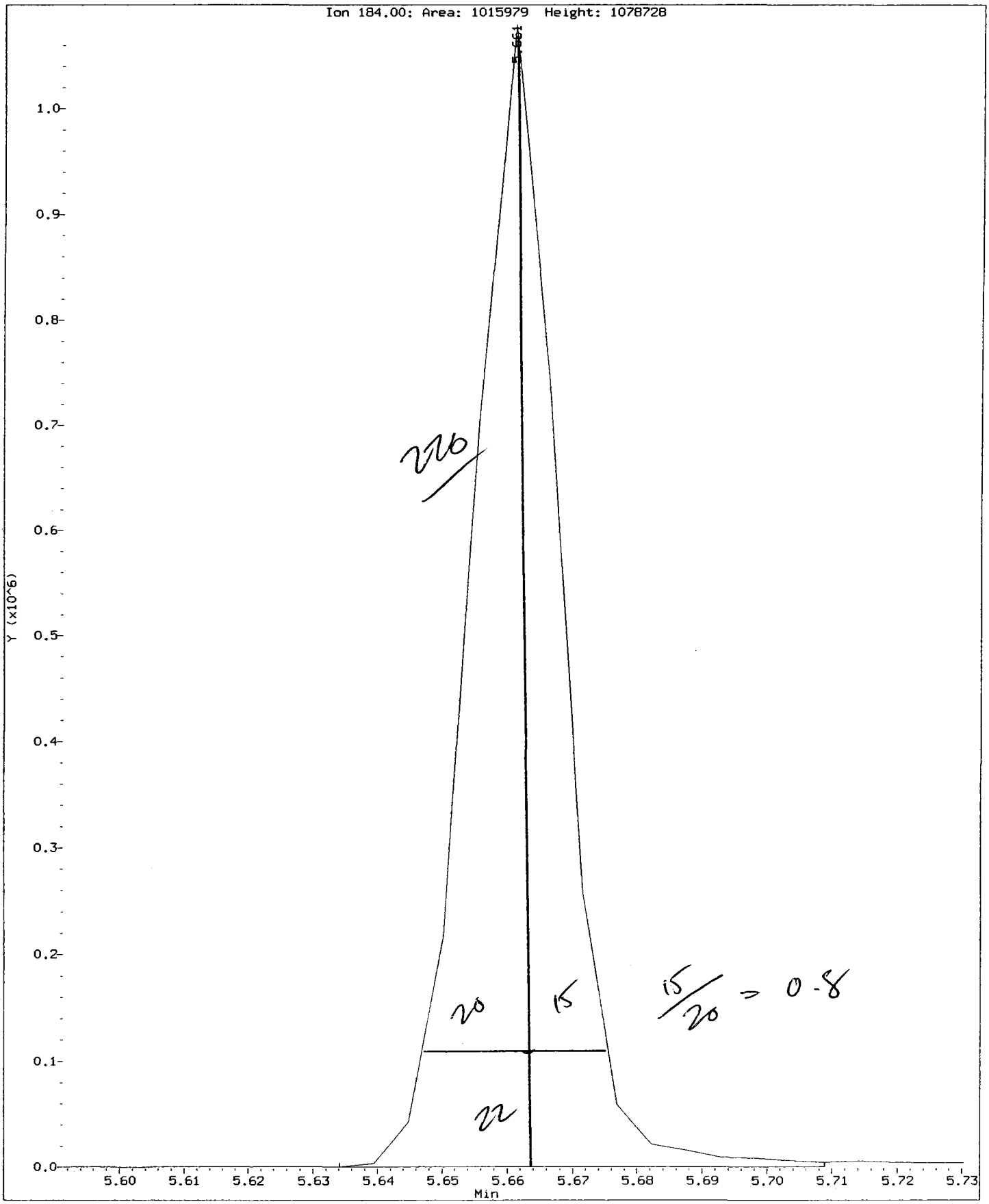
Data File: /chem3/nt2.i/20091021.b/ddt.b/df1021.d
Injection Date: 21-OCT-2009 10:55
Instrument: nt2.i
Client Sample ID:

Compound: Pentachlorophenol
CAS Number: 87-86-5



Data File: /chem3/nt2.i/20091021.b/ddt.b/df1021.d
Injection Date: 21-OCT-2009 10:55
Instrument: nt2.i
Client Sample ID:

Compound: Benzidine
CAS Number:



Analytical Resources Inc.
ABN by sw846 8270C
DDT Breakdown Report

Data file: /chem3/nt2.i/20091021.b/ddt.b/df1021.d
Method: /chem3/nt2.i/20091021.b/ddt.b/sw846ddt.m
Analysis Date: 21-OCT-2009 10:55

ARI ID: DFTPP
Misc:
Instrument: nt2.i

COMPOUND	RT	AREA
Pentachlorophenol	4.234	954320
Benzidine	5.661	1015979
4,4'-DDE	5.885	3029
4,4'-DDD	6.211	41668
4,4'-DDT	6.505	2284724

$$\text{DDT Percent Breakdown} = \frac{(\text{DDE Area} + \text{DDD Area}) * 100}{(\text{DDE Area} + \text{DDD Area} + \text{DDT Area})}$$

$$\text{DDT Percent Breakdown} = \frac{(\ 3029 + 41668) * 100}{(\ 3029 + 41668 + 2284724)}$$

DDT Percent Breakdown = 1.9 %

Data File: /chem3/nt2.i/20100304.b/df0304.d

Date : 04-MAR-2010 10:36

Client ID:

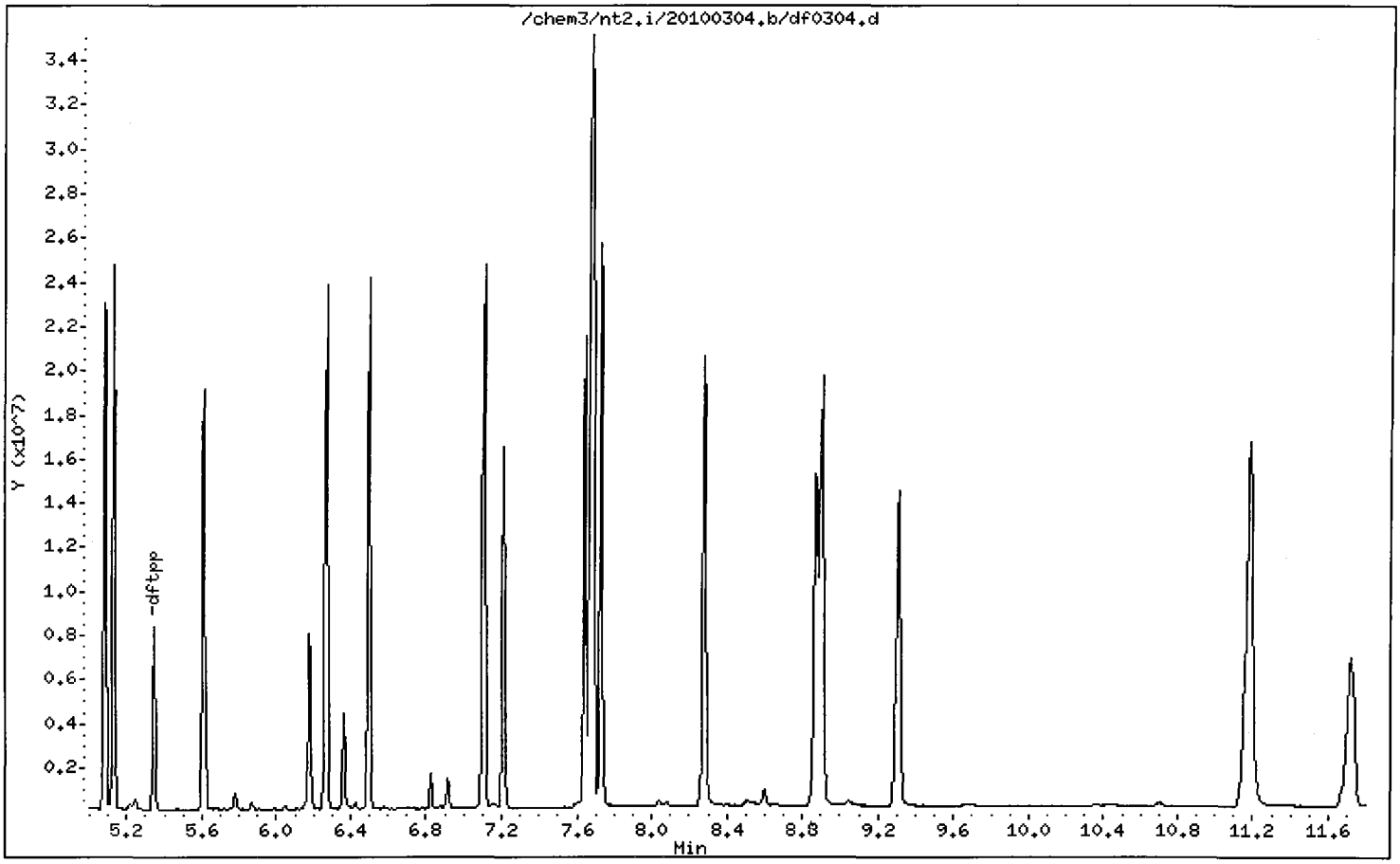
Instrument: nt2.i

Sample Info: DFTPP

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25



Data File: /chem3/nt2.i/20100304.b/df0304.d

Date : 04-MAR-2010 10:36

Client ID:

Instrument: nt2.i

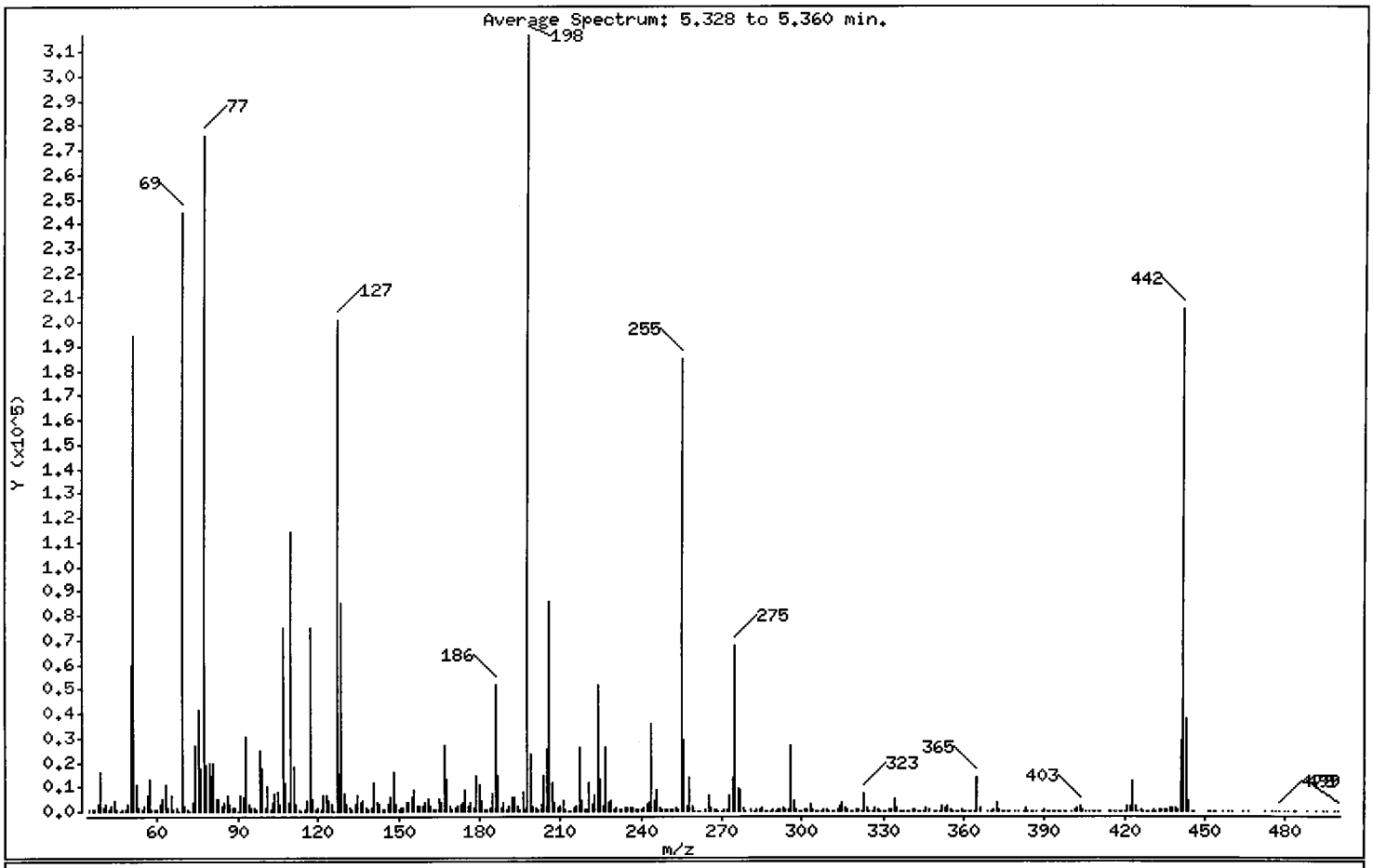
Sample Info: DFTPP

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	61.46
68	Less than 2.00% of mass 69	0.10 (0.12)
69	Mass 69 relative abundance	77.25
70	Less than 2.00% of mass 69	0.63 (0.82)
127	10.00 - 80.00% of mass 198	63.38
197	Less than 2.00% of mass 198	0.14
199	5.00 - 9.00% of mass 198	7.28
275	10.00 - 60.00% of mass 198	21.39
365	Greater than 1.00% of mass 198	4.25
441	0.01 - 24.00% of mass 442	9.29 (14.34)
442	50.00 - 200.00% of mass 198	64.77
443	15.00 - 24.00% of mass 442	11.90 (18.37)

Date : 04-MAR-2010 10:36

Client ID: Instrument: nt2.i

Sample Info: DFTPP

Operator: VTS

Column phase: ZB-5msi Column diameter: 0.25

Data File: df0304.d
Spectrum: Average Spectrum: 5.328 to 5.360 min.
Location of Maximum: 198.00
Number of points: 423

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	544	141.00	11436	247.00	1712	356.00	231
36.00	581	142.00	3425	248.00	517	357.00	191
37.00	1061	143.00	3142	249.00	1033	358.00	68
38.00	2940	144.00	817	250.00	400	359.00	390
39.00	15658	145.00	786	251.00	765	360.00	183
40.00	1694	146.00	2598	252.00	804	361.00	105
41.00	2665	147.00	5743	253.00	1479	362.00	38
42.00	828	148.00	15898	254.00	595	363.00	209
43.00	2123	149.00	2857	255.00	184576	364.00	66
44.00	4186	150.00	1081	256.00	28856	365.00	13472
45.00	938	151.00	1532	257.00	2236	366.00	1817
46.00	269	152.00	1160	258.00	13569	369.00	112
47.00	795	153.00	3340	259.00	2057	370.00	322
48.00	415	154.00	3390	260.00	336	371.00	607
49.00	3030	155.00	6018	261.00	252	372.00	3310
50.00	59544	156.00	8719	262.00	191	373.00	737
51.00	194560	157.00	2166	264.00	743	374.00	37
52.00	10939	158.00	1968	265.00	6320	375.00	42
53.00	1374	159.00	1830	266.00	1697	376.00	34
54.00	774	160.00	3634	267.00	451	377.00	275
55.00	2290	161.00	4877	268.00	794	379.00	69
56.00	6638	162.00	1843	269.00	258	380.00	142
57.00	13141	163.00	801	270.00	322	382.00	113
58.00	912	164.00	967	271.00	1012	383.00	1225
59.00	975	165.00	5103	272.00	926	384.00	349
60.00	855	166.00	3531	273.00	6440	385.00	268
61.00	2826	167.00	26728	274.00	13714	386.00	74
62.00	4950	168.00	13373	275.00	67728	387.00	65
63.00	11199	169.00	2156	276.00	9632	389.00	126
64.00	1334	170.00	798	277.00	8562	390.00	706
65.00	6407	171.00	1279	278.00	1134	391.00	140
66.00	883	172.00	1892	279.00	280	392.00	223
67.00	1325	173.00	2968	281.00	464	393.00	247
68.00	303	174.00	3883	282.00	248	394.00	31
69.00	244544	175.00	8970	283.00	815	395.00	69

Data File: /chem3/nt2.i/20100304.b/df0304.d

Date : 04-MAR-2010 10:36

Client ID:

Instrument: nt2.i

Sample Info: DFTPP

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

Data File: df0304.d
Spectrum: Average Spectrum: 5.328 to 5.360 min.
Location of Maximum: 198.00
Number of points: 423

m/z	Y	m/z	Y	m/z	Y	m/z	Y
70.00	1999	176.00	1933	284.00	666	396.00	71
71.00	770	177.00	3368	285.00	1493	397.00	102
72.00	307	178.00	1464	286.00	362	398.00	49
73.00	3984	179.00	14484	287.00	104	400.00	205
74.00	27264	180.00	10655	288.00	108	401.00	567
75.00	41768	181.00	4489	289.00	421	402.00	1359
76.00	17112	182.00	906	290.00	277	403.00	2443
77.00	275648	183.00	443	291.00	421	404.00	664
78.00	19136	184.00	1765	292.00	457	405.00	100
79.00	19984	185.00	6971	293.00	1129	407.00	82
80.00	14740	186.00	51656	294.00	917	408.00	113
81.00	19968	187.00	14834	295.00	463	409.00	89
82.00	5422	188.00	1701	296.00	26600	410.00	97
83.00	5111	189.00	3560	297.00	4250	411.00	61
84.00	2062	190.00	931	298.00	384	414.00	110
85.00	3300	191.00	1994	299.00	79	415.00	31
86.00	6400	192.00	6025	300.00	190	416.00	68
87.00	2935	193.00	5992	301.00	425	417.00	264
88.00	1235	194.00	2246	302.00	495	418.00	214
89.00	1357	195.00	1054	303.00	2923	419.00	59
90.00	160	196.00	8007	304.00	803	420.00	107
91.00	6538	197.00	452	305.00	118	421.00	2103
92.00	6007	198.00	316608	306.00	157	422.00	1989
93.00	30912	199.00	23040	307.00	78	423.00	12385
94.00	2816	200.00	2148	308.00	498	424.00	1953
95.00	1759	201.00	1734	309.00	410	425.00	219
96.00	1618	202.00	854	310.00	283	426.00	429
97.00	638	203.00	3058	311.00	32	427.00	122
98.00	24688	204.00	14496	312.00	233	428.00	308
99.00	17232	205.00	25504	313.00	531	429.00	94
100.00	1477	206.00	86064	314.00	1893	430.00	297
101.00	10074	207.00	11648	315.00	3587	431.00	471
102.00	557	208.00	3404	316.00	1612	432.00	325
103.00	3871	209.00	1387	317.00	606	433.00	738
104.00	7359	210.00	2054	318.00	346	434.00	737

Data File: /chem3/nt2.i/20100304.b/df0304.d

Date : 04-MAR-2010 10:36

Client ID:

Instrument: nt2.i

Sample Info: DFTPP

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

Data File: df0304.d
Spectrum: Average Spectrum: 5.328 to 5.360 min.
Location of Maximum: 198.00
Number of points: 423

m/z	Y	m/z	Y	m/z	Y	m/z	Y
105.00	7650	211.00	4019	319.00	47	435.00	706
106.00	2754	212.00	386	320.00	375	436.00	764
107.00	74688	213.00	221	321.00	836	437.00	1102
108.00	11989	214.00	160	322.00	328	438.00	1104
109.00	3483	215.00	1436	323.00	6947	439.00	1188
110.00	114624	216.00	1954	324.00	1424	440.00	599
111.00	18432	217.00	26320	325.00	177	441.00	29408
112.00	2626	218.00	4095	326.00	175	442.00	205056
113.00	964	219.00	403	327.00	1268	443.00	37680
114.00	202	220.00	903	328.00	729	444.00	4073
115.00	1089	221.00	11313	329.00	254	445.00	174
116.00	4245	222.00	2949	330.00	177	446.00	46
117.00	74648	223.00	6434	331.00	164	451.00	33
118.00	4775	224.00	51792	332.00	572	452.00	30
119.00	1018	225.00	13102	333.00	845	453.00	29
120.00	1136	226.00	2043	334.00	4762	454.00	35
121.00	915	227.00	25992	335.00	1409	457.00	35
122.00	6307	228.00	3614	336.00	166	459.00	103
123.00	6737	229.00	4523	337.00	33	460.00	41
124.00	4054	230.00	866	338.00	188	464.00	82
125.00	2833	231.00	1632	339.00	276	466.00	41
126.00	109	232.00	525	340.00	183	472.00	68
127.00	200640	233.00	572	341.00	1016	475.00	105
128.00	15181	234.00	1491	342.00	519	476.00	73
129.00	84944	235.00	1515	343.00	145	478.00	184
130.00	7276	236.00	1430	344.00	176	480.00	56
131.00	2561	237.00	1739	345.00	45	481.00	29
132.00	1515	238.00	489	346.00	1442	483.00	118
133.00	944	239.00	1020	347.00	503	484.00	73
134.00	2794	240.00	983	349.00	118	488.00	115
135.00	6603	241.00	1749	350.00	71	491.00	63
136.00	3588	242.00	3120	351.00	243	494.00	30
137.00	4172	243.00	3597	352.00	2217	495.00	105
138.00	1218	244.00	35456	353.00	1542	498.00	54
139.00	941	245.00	4112	354.00	2214	499.00	30

Date : 04-MAR-2010 10:36

Client ID: Instrument: nt2.i

Sample Info: DFTPP

Operator: VTS

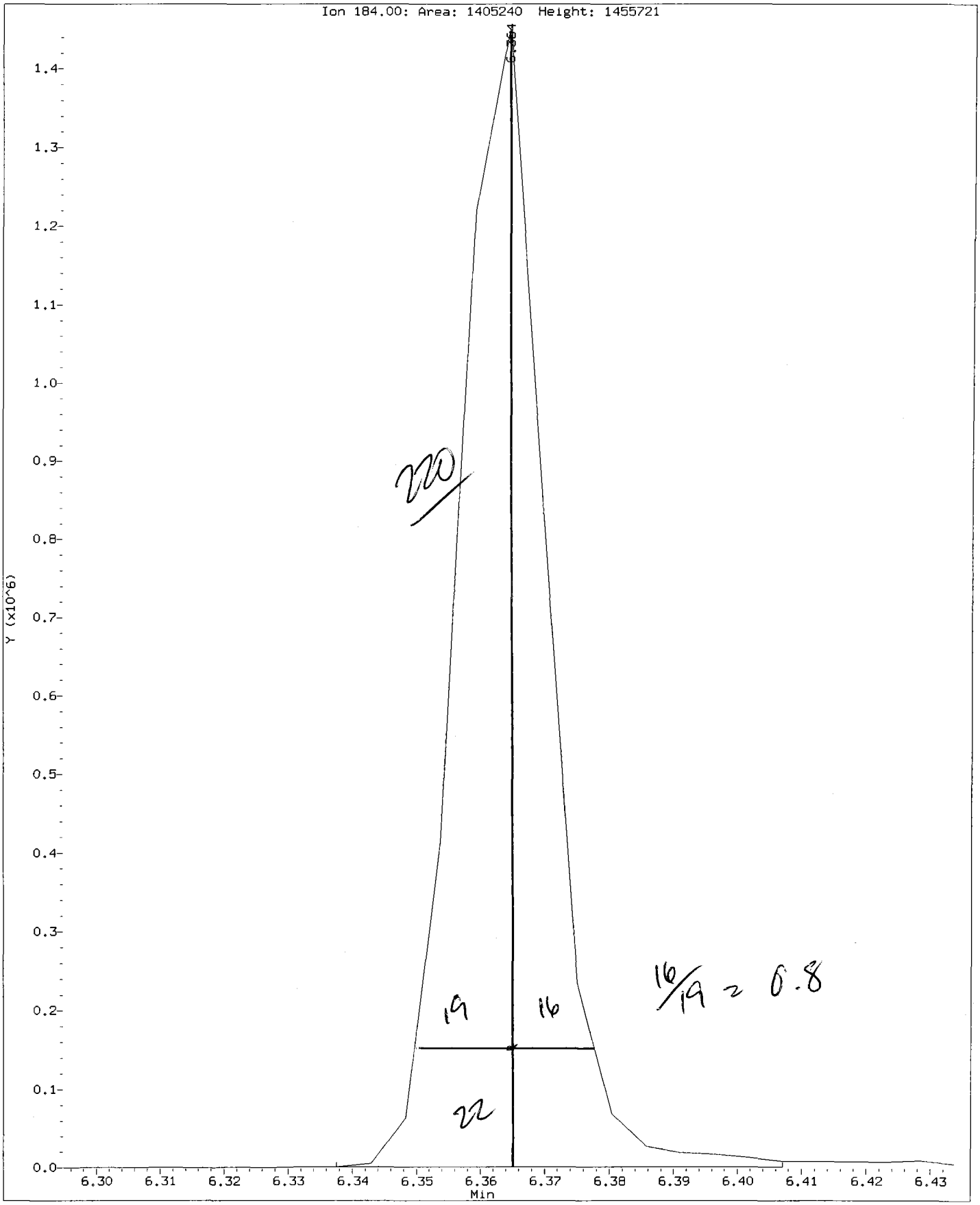
Column phase: ZB-5msi Column diameter: 0.25

Data File: df0304.d
Spectrum: Average Spectrum: 5.328 to 5.360 min.
Location of Maximum: 198.00
Number of points: 423

m/z	Y	m/z	Y	m/z	Y	m/z	Y
140.00	1510	246.00	8771	355.00	689		

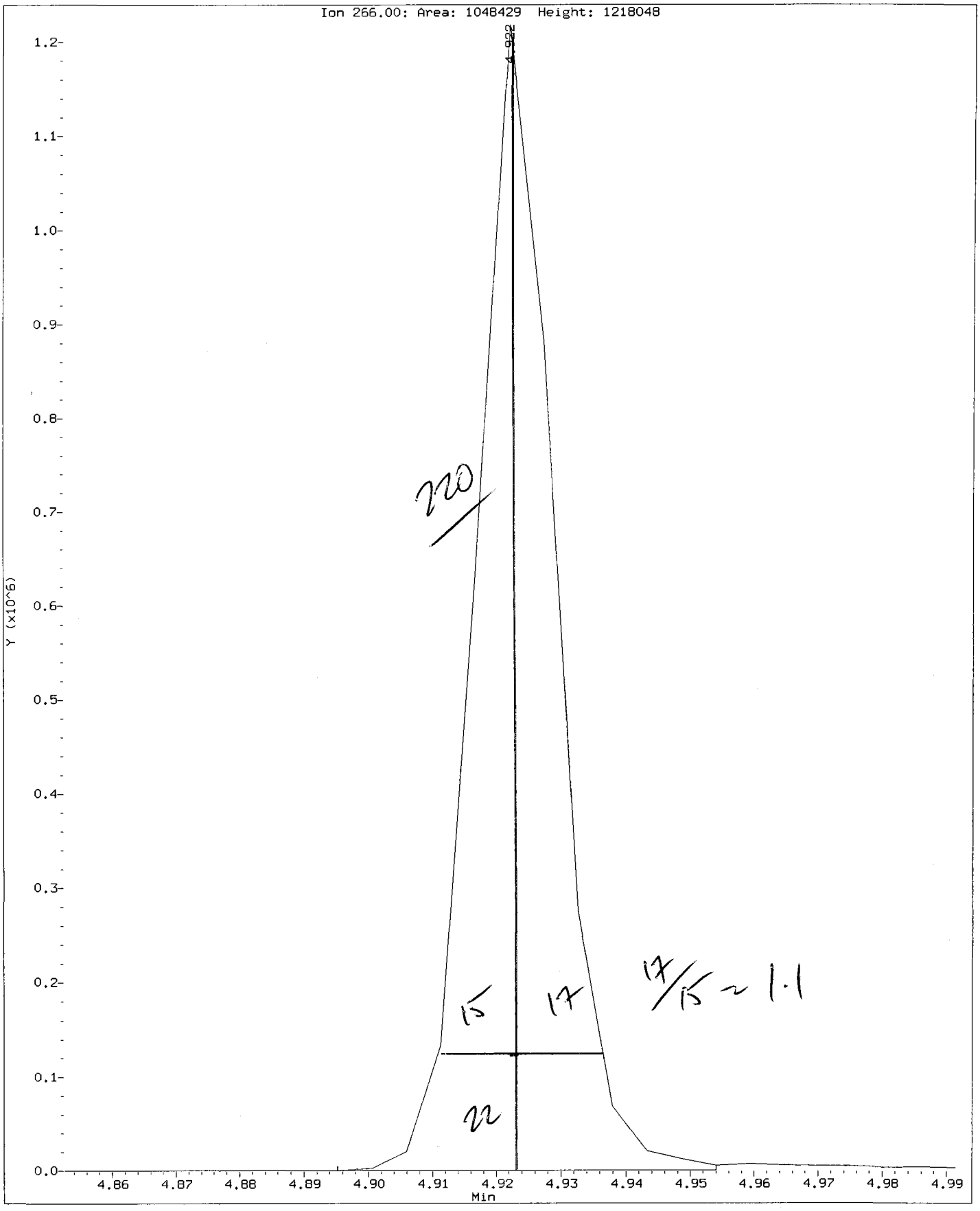
Data File: /chem3/nt2.i/20100304.b/ddt.b/df0304.d
Injection Date: 04-MAR-2010 10:36
Instrument: nt2.i
Client Sample ID:

Compound: Benzidine
CAS Number:



Data File: /chem3/nt2.i/20100304.b/ddt.b/df0304.d
Injection Date: 04-MAR-2010 10:36
Instrument: nt2.i
Client Sample ID:

Compound: Pentachlorophenol
CAS Number: 87-86-5



Analytical Resources Inc.
ABN by sw846 8270C
DDT Breakdown Report

Data file: /chem3/nt2.i/20100304.b/ddt.b/df0304.d
Method: /chem3/nt2.i/20100304.b/ddt.b/sw846ddt.m
Analysis Date: 04-MAR-2010 10:36

ARI ID: DFTPP
Misc:
Instrument: nt2.i

COMPOUND	RT	AREA
Pentachlorophenol	4.922	1048429
Benzidine	6.364	1405240
4,4'-DDE	6.583	9128
4,4'-DDD	6.915	189692
4,4'-DDT	7.214	2448250

$$\text{DDT Percent Breakdown} = \frac{(\text{DDE Area} + \text{DDD Area}) * 100}{(\text{DDE Area} + \text{DDD Area} + \text{DDT Area})}$$

$$\text{DDT Percent Breakdown} = \frac{(\ 9128 + 189692) * 100}{(\ 9128 + 189692 + 2448250)}$$

DDT Percent Breakdown = 7.5 %

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by Low Level SW8270D-SIM GC/MS
Page 1 of 1

Sample ID: MB-030110
METHOD BLANK

Lab Sample ID: MB-030110
LIMS ID: 10-4798
Matrix: Water
Data Release Authorized:
Reported: 03/08/10

QC Report No: QL58-Floyd/Snider
Project: Lora Lake Apartments
Event: POS-LLA
Date Sampled: NA
Date Received: NA

Date Extracted: 03/01/10
Date Analyzed: 03/04/10 14:03
Instrument/Analyst: NT2/PK

Sample Amount: 500 mL
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	0.010	< 0.010 U
91-57-6	2-Methylnaphthalene	0.010	< 0.010 U
90-12-0	1-Methylnaphthalene	0.010	< 0.010 U
208-96-8	Acenaphthylene	0.010	< 0.010 U
83-32-9	Acenaphthene	0.010	< 0.010 U
86-73-7	Fluorene	0.010	< 0.010 U
85-01-8	Phenanthrene	0.010	< 0.010 U
120-12-7	Anthracene	0.010	< 0.010 U
206-44-0	Fluoranthene	0.010	< 0.010 U
129-00-0	Pyrene	0.010	< 0.010 U
56-55-3	Benzo(a)anthracene	0.010	< 0.010 U
218-01-9	Chrysene	0.010	< 0.010 U
205-99-2	Benzo(b)fluoranthene	0.010	< 0.010 U
207-08-9	Benzo(k)fluoranthene	0.010	< 0.010 U
50-32-8	Benzo(a)pyrene	0.010	< 0.010 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.010	< 0.010 U
53-70-3	Dibenz(a,h)anthracene	0.010	< 0.010 U
191-24-2	Benzo(g,h,i)perylene	0.010	< 0.010 U
132-64-9	Dibenzofuran	0.010	< 0.010 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	68.7%
d14-Dibenzo(a,h)anthracene	58.7%

Analytical Resources, Inc.

LOW LEVEL PNAs BY SW8270D-SIM

Data file : /chem3/nt2.i/20100304.b/030406.d
Lab Smp Id: QL58MBW1 Client Smp ID: QL58MBW1
Inj Date : 04-MAR-2010 14:03
Operator : VTS Inst ID: nt2.i
Smp Info : QL58MBW1
Misc Info : 10-4798
Comment :
Method : /chem3/nt2.i/20100304.b/lowsim.m
Meth Date : 05-Mar-2010 11:18 peter Quant Type: ISTD
Cal Date : 21-OCT-2009 13:30 Cal File: ic102106.d
Als bottle: 6 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pna1mn.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Vt / Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Final Extract Volume (uL)
Vo	500.00000	Sample Volume extracted (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/mL)	CONCENTRATIONS FINAL (ug/L)
*	4 Naphthalene-d8	136	6.966	6.967	(1.000)	265403	200.000	
	5 Naphthalene	128	Compound Not Detected.					
$	6 2-Methylnaphthalene-d10	152	7.812	7.813	(1.121)	141037	206.320	206
	7 2-Methylnaphthalene	142	Compound Not Detected.					
	8 1-Methylnaphthalene	142	Compound Not Detected.					
	10 Acenaphthylene	152	Compound Not Detected.					
*	11 Acenaphthene-d10	164	9.162	9.162	(1.000)	130397	200.000	
	12 Acenaphthene	153	Compound Not Detected.					
	14 Dibenzofuran	168	Compound Not Detected.					
	15 Fluorene	166	Compound Not Detected.					
*	18 Phenanthrene-d10	188	11.000	11.002	(1.000)	188849	200.000	
	19 Phenanthrene	178	Compound Not Detected.					
	20 Anthracene	178	Compound Not Detected.					
	24 Fluoranthene	202	Compound Not Detected.					
	25 Pyrene	202	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/mL)	FINAL (ug/L)
	28 Benzo(a)anthracene	228	Compound Not Detected.					
*	29 Chrysene-d12	240	14.283	14.283	(1.000)	177979	200.000	
	30 Chrysene	228	Compound Not Detected.					
	32 Benzo(b)fluoranthene	252	Compound Not Detected.					
	33 Benzo(k)fluoranthene	252	Compound Not Detected.					
	34 Benzo(a)pyrene	252	Compound Not Detected.					
*	35 Perylene-d12	264	16.091	16.091	(1.000)	183322	200.000	
	37 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
$	36 Dibenzo(a,h)anthracene-d14	292	17.821	17.820	(1.107)	98074	176.498	176
	38 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
	39 Benzo(g,h,i)perylene	276	Compound Not Detected.					

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt2.i
Lab File ID: 030406.d
Lab Smp Id: QL58MBW1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt2.i/20100304.b/lowsim.m
Misc Info: 10-4798

Calibration Date: 04-MAR-2010
Calibration Time: 10:53
Client Smp ID: QL58MBW1
Level: LOW
Sample Type: Liquid

Test Mode:
Use Initial Calibration Level 4.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
4 Naphthalene-d8	173109	86554	346218	265403	53.32
11 Acenaphthene-d10	96677	48338	193354	130397	34.88
18 Phenanthrene-d10	147750	73875	295500	188849	27.82
29 Chrysene-d12	135219	67610	270438	177979	31.62
35 Perylene-d12	125815	62908	251630	183322	45.71

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
4 Naphthalene-d8	6.97	6.47	7.47	6.97	-0.01
11 Acenaphthene-d10	9.16	8.66	9.66	9.16	0.00
18 Phenanthrene-d10	11.00	10.50	11.50	11.00	-0.01
29 Chrysene-d12	14.28	13.78	14.78	14.28	-0.01
35 Perylene-d12	16.09	15.59	16.59	16.09	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Floyd/Snider
Sample Matrix: LIQUID
Lab Smp Id: QL58MBW1
Level: LOW
Data Type: MS DATA
SpikeList File: waterlcs.spk
Sublist File: pna1mn.sub
Method File: /chem3/nt2.i/20100304.b/lowsim.m
Misc Info: 10-4798

Client SDG: QL58
Fraction: SV
Client Smp ID: QL58MBW1
Operator: VTS
SampleType: BLANK
Quant Type: ISTD

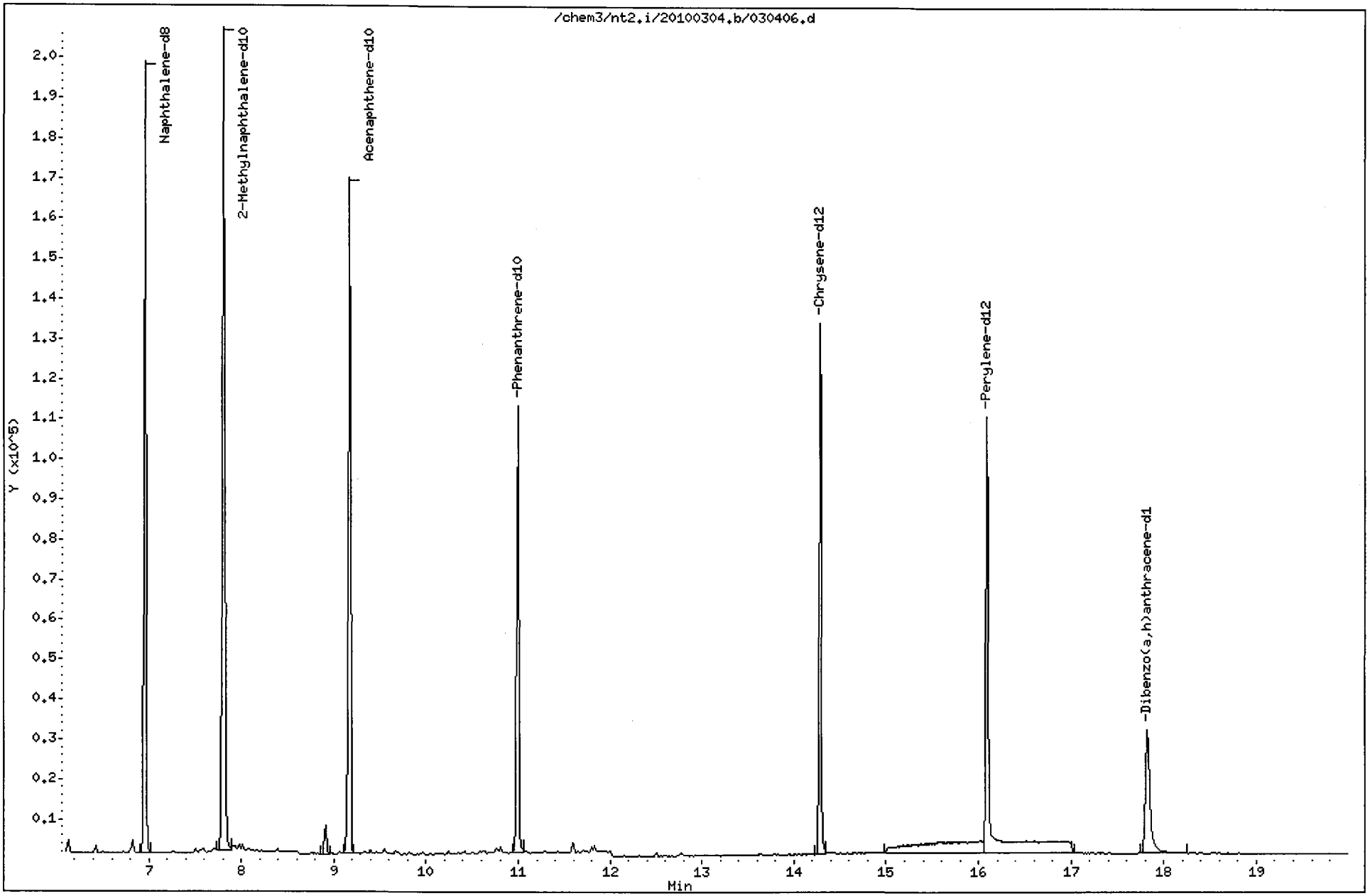
SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
5 Naphthalene	300	0.00	*	41-101
7 2-Methylnaphthale	300	0.00	*	47-100
8 1-Methylnaphthale	300	0.00	*	30-160
10 Acenaphthylene	300	0.00	*	35-100
12 Acenaphthene	300	0.00	*	43-104
14 Dibenzofuran	300	0.00	*	37-100
15 Fluorene	300	0.00	*	51-103
19 Phenanthrene	300	0.00	*	55-109
20 Anthracene	300	0.00	*	30-101
24 Fluoranthene	300	0.00	*	49-123
25 Pyrene	300	0.00	*	48-120
28 Benzo(a)anthracene	300	0.00	*	43-113
30 Chrysene	300	0.00	*	59-112
32 Benzo(b)fluoranth	300	0.00	*	44-121
33 Benzo(k)fluoranth	300	0.00	*	50-117
34 Benzo(a)pyrene	300	0.00	*	10-100
37 Indeno(1,2,3-cd)p	300	0.00	*	43-112
38 Dibenzo(a,h)anthr	300	0.00	*	42-114
39 Benzo(g,h,i)peryl	300	0.00	*	31-118

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 6 2-Methylnaphthalen	300	206	68.77	31-109
$ 36 Dibenzo(a,h)anthra	300	176	58.83	10-133

Data File: /chem3/nt2.i/20100304.b/030406.d
Date : 04-MAR-2010 14:03
Client ID: QL58MBW1
Sample Info: QL58MBW1
Volume Injected (uL): 2.0
Column phase: ZB-5

Instrument: nt2.i

Operator: VTS
Column diameter: 0.25



ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by Low Level SW8270D-SIM GC/MS
Page 1 of 1

Sample ID: CB1022410Comp
MATRIX SPIKE

Lab Sample ID: QL58C
LIMS ID: 10-4798
Matrix: Water
Data Release Authorized:
Reported: 03/08/10

QC Report No: QL58-Floyd/Snider
Project: Lora Lake Apartments
Event: POS-LLA
Date Sampled: 02/24/10
Date Received: 02/25/10

Date Extracted: 03/01/10
Date Analyzed: 03/04/10 16:06
Instrument/Analyst: NT2/PK

Sample Amount: 500 mL
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	0.010	---
91-57-6	2-Methylnaphthalene	0.010	---
90-12-0	1-Methylnaphthalene	0.010	---
208-96-8	Acenaphthylene	0.010	---
83-32-9	Acenaphthene	0.010	---
86-73-7	Fluorene	0.010	---
85-01-8	Phenanthrene	0.010	---
120-12-7	Anthracene	0.010	---
206-44-0	Fluoranthene	0.010	---
129-00-0	Pyrene	0.010	---
56-55-3	Benzo(a)anthracene	0.010	---
218-01-9	Chrysene	0.010	---
205-99-2	Benzo(b)fluoranthene	0.010	---
207-08-9	Benzo(k)fluoranthene	0.010	---
50-32-8	Benzo(a)pyrene	0.010	---
193-39-5	Indeno(1,2,3-cd)pyrene	0.010	---
53-70-3	Dibenz(a,h)anthracene	0.010	---
191-24-2	Benzo(g,h,i)perylene	0.010	---
132-64-9	Dibenzofuran	0.010	---

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	63.0%
d14-Dibenzo(a,h)anthracene	51.3%

Analytical Resources, Inc.

LOW LEVEL PNAs BY SW8270D-SIM

Data file : /chem3/nt2.i/20100304.b/030411.d
Lab Smp Id: QL58CMS Client Smp ID: CB1022410Comp MS
Inj Date : 04-MAR-2010 16:06
Operator : VTS Inst ID: nt2.i
Smp Info : QL58CMS
Misc Info : 10-4798
Comment :
Method : /chem3/nt2.i/20100304.b/lowsim.m
Meth Date : 04-Mar-2010 12:23 peter Quant Type: ISTD
Cal Date : 21-OCT-2009 13:30 Cal File: ic102106.d
Als bottle: 11 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pna1mn.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Vt / Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Final Extract Volume (uL)
Vo	500.00000	Sample Volume extracted (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/mL)	CONCENTRATIONS FINAL (ug/L)
*	4 Naphthalene-d8	136	6.965	6.967	(1.000)	262772	200.000	
	5 Naphthalene	128	6.980	6.982	(1.002)	225344	178.092	178
$	6 2-Methylnaphthalene-d10	152	7.811	7.813	(1.121)	127850	188.902	189
	7 2-Methylnaphthalene	142	7.842	7.844	(1.126)	135831	184.079	184
	8 1-Methylnaphthalene	142	7.980	7.982	(1.146)	135511	176.444	176
	10 Acenaphthylene	152	8.969	8.969	(0.979)	197307	200.816	201
*	11 Acenaphthene-d10	164	9.163	9.162	(1.000)	124155	200.000	
	12 Acenaphthene	153	9.201	9.201	(1.004)	122096	200.255	200
	14 Dibenzofuran	168	9.407	9.407	(1.027)	188407	237.193	237
	15 Fluorene	166	9.817	9.817	(1.071)	146701	223.410	223
*	18 Phenanthrene-d10	188	10.986	11.002	(1.000)	180669	200.000	
	19 Phenanthrene	178	11.017	11.017	(1.003)	233634	260.171	260
	20 Anthracene	178	11.079	11.078	(1.008)	202205	220.358	220
	24 Fluoranthene	202	12.494	12.505	(1.137)	253756	259.442	259
	25 Pyrene	202	12.780	12.780	(1.163)	257652	259.508	260

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/mL)	FINAL (ug/L)
	28 Benzo(a)anthracene	228	14.261	14.261	(0.998)	196999	224.996	225
*	29 Chrysene-d12	240	14.283	14.283	(1.000)	175427	200.000	
	30 Chrysene	228	14.316	14.316	(1.002)	199133	230.518	231
	32 Benzo(b)fluoranthene	252	15.564	15.572	(0.967)	176265	166.632	167
	33 Benzo(k)fluoranthene	252	15.595	15.595	(0.969)	221167	192.568	193
	34 Benzo(a)pyrene	252	16.006	16.006	(0.995)	143960	173.691	174
*	35 Perylene-d12	264	16.091	16.091	(1.000)	184632	200.000	
	37 Indeno(1,2,3-cd)pyrene	276	17.874	17.873	(1.111)	140303	146.078	146
$	36 Dibenzo(a,h)anthracene-d14	292	17.820	17.820	(1.107)	86173	153.980	154
	38 Dibenzo(a,h)anthracene	278	17.887	17.887	(1.112)	113267	150.770	151
	39 Benzo(g,h,i)perylene	276	18.400	18.399	(1.143)	122208	147.558	148

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt2.i
Lab File ID: 030411.d
Lab Smp Id: QL58CMS
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt2.i/20100304.b/lowsim.m
Misc Info: 10-4798

Calibration Date: 04-MAR-2010
Calibration Time: 10:53
Client Smp ID: CB1022410Comp MS
Level: LOW
Sample Type: Water

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
4 Naphthalene-d8	173109	86554	346218	262772	51.80
11 Acenaphthene-d10	96677	48338	193354	124155	28.42
18 Phenanthrene-d10	147750	73875	295500	180669	22.28
29 Chrysene-d12	135219	67610	270438	175427	29.74
35 Perylene-d12	125815	62908	251630	184632	46.75

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
4 Naphthalene-d8	6.97	6.47	7.47	6.96	-0.03
11 Acenaphthene-d10	9.16	8.66	9.66	9.16	0.00
18 Phenanthrene-d10	11.00	10.50	11.50	10.99	-0.14
29 Chrysene-d12	14.28	13.78	14.78	14.28	0.00
35 Perylene-d12	16.09	15.59	16.59	16.09	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Floyd/Snider
Sample Matrix: LIQUID
Lab Smp Id: QL58CMS
Level: LOW
Data Type: MS DATA
SpikeList File: waterlcs.spk
Sublist File: pna1mn.sub
Method File: /chem3/nt2.i/20100304.b/lowsim.m
Misc Info: 10-4798

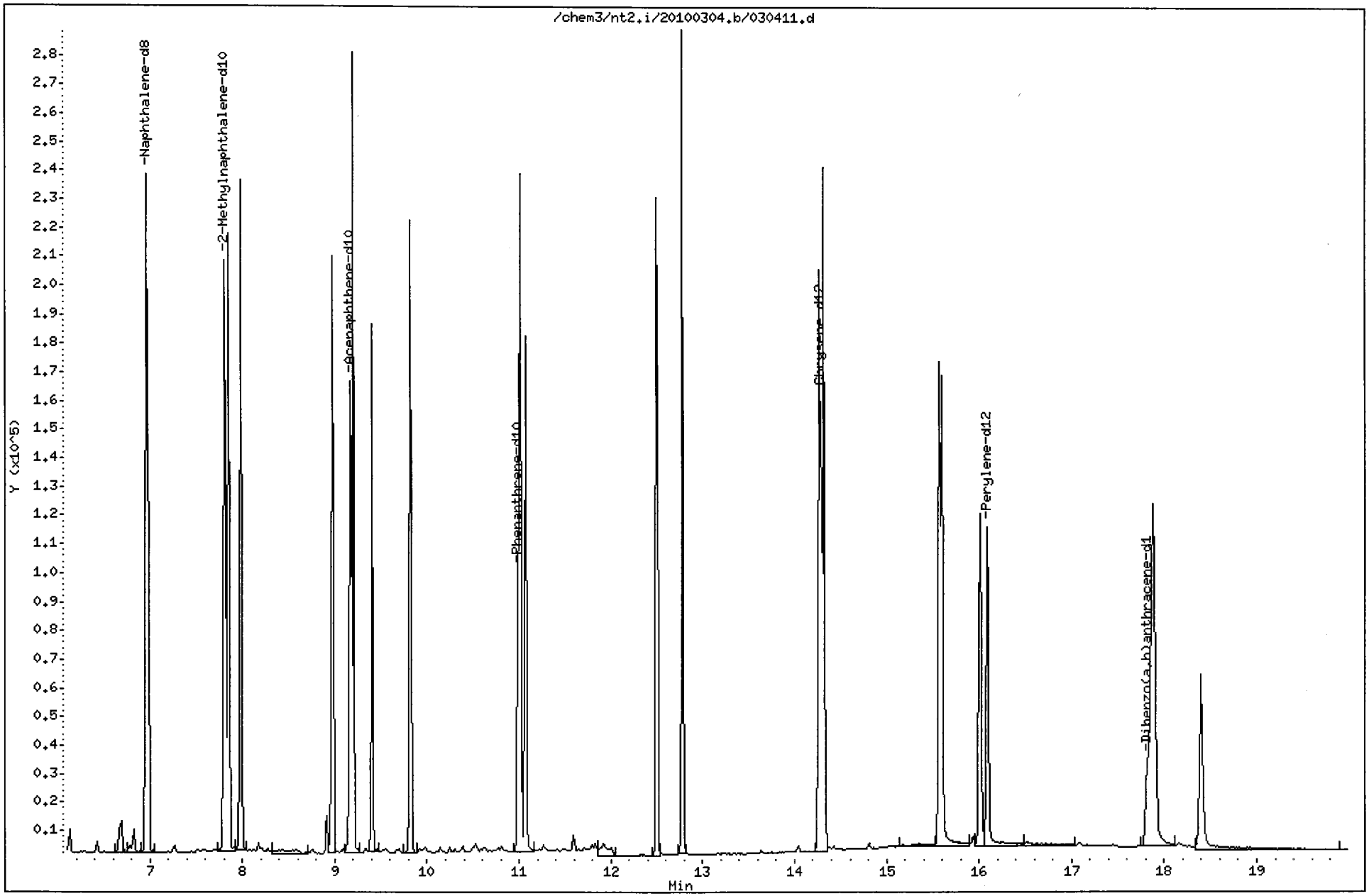
Client SDG: QL58
Fraction: SV
Client Smp ID: CB1022410Comp MS
Operator: VTS
SampleType: MS
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
5 Naphthalene	300	178	59.36	41-101
7 2-Methylnaphthalen	300	184	61.36	47-100
8 1-Methylnaphthalen	300	176	58.81	30-160
10 Acenaphthylene	300	201	66.94	35-100
12 Acenaphthene	300	200	66.75	43-104
14 Dibenzofuran	300	237	79.06	37-100
15 Fluorene	300	223	74.47	51-103
19 Phenanthrene	300	260	86.72	55-109
20 Anthracene	300	220	73.45	30-101
24 Fluoranthene	300	259	86.48	49-123
25 Pyrene	300	260	86.50	48-120
28 Benzo(a)anthracene	300	225	75.00	43-113
30 Chrysene	300	231	76.84	59-112
32 Benzo(b)fluoranthe	300	167	55.54	44-121
33 Benzo(k)fluoranthe	300	193	64.19	50-117
34 Benzo(a)pyrene	300	174	57.90	10-100
37 Indeno(1,2,3-cd)py	300	146	48.69	43-112
38 Dibenzo(a,h)anthra	300	151	50.26	42-114
39 Benzo(g,h,i)peryle	300	148	49.19	31-118

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 6 2-Methylnaphthalen	300	189	62.97	31-109
$ 36 Dibenzo(a,h)anthra	300	154	51.33	10-133

Data File: /chem3/nt2.i/20100304.b/030411.d
Date : 04-MAR-2010 16:06
Client ID: CB1022410Comp MS
Sample Info: QL58CMS
Volume Injected (uL): 2.0
Column phase: ZB-5

Instrument: nt2.i
Operator: VTS
Column diameter: 0.25



QL58 : 99238

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by Low Level SW8270D-SIM GC/MS
Page 1 of 1

Sample ID: CB1022410Comp
MATRIX SPIKE DUPLICATE

Lab Sample ID: QL58C
LIMS ID: 10-4798
Matrix: Water
Data Release Authorized:
Reported: 03/08/10

QC Report No: QL58-Floyd/Snider
Project: Lora Lake Apartments
Event: POS-LLA
Date Sampled: 02/24/10
Date Received: 02/25/10

Date Extracted: 03/01/10
Date Analyzed: 03/04/10 16:30
Instrument/Analyst: NT2/PK

Sample Amount: 500 mL
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	0.010	---
91-57-6	2-Methylnaphthalene	0.010	---
90-12-0	1-Methylnaphthalene	0.010	---
208-96-8	Acenaphthylene	0.010	---
83-32-9	Acenaphthene	0.010	---
86-73-7	Fluorene	0.010	---
85-01-8	Phenanthrene	0.010	---
120-12-7	Anthracene	0.010	---
206-44-0	Fluoranthene	0.010	---
129-00-0	Pyrene	0.010	---
56-55-3	Benzo(a)anthracene	0.010	---
218-01-9	Chrysene	0.010	---
205-99-2	Benzo(b)fluoranthene	0.010	---
207-08-9	Benzo(k)fluoranthene	0.010	---
50-32-8	Benzo(a)pyrene	0.010	---
193-39-5	Indeno(1,2,3-cd)pyrene	0.010	---
53-70-3	Dibenz(a,h)anthracene	0.010	---
191-24-2	Benzo(g,h,i)perylene	0.010	---
132-64-9	Dibenzofuran	0.010	---

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	72.7%
d14-Dibenzo(a,h)anthracene	50.7%

Analytical Resources, Inc.

LOW LEVEL PNAs BY SW8270D-SIM

Data file : /chem3/nt2.i/20100304.b/030412.d
Lab Smp Id: QL58CMSD Client Smp ID: CB1022410Comp MSD
Inj Date : 04-MAR-2010 16:30
Operator : VTS Inst ID: nt2.i
Smp Info : QL58CMSD
Misc Info : 10-4798
Comment :
Method : /chem3/nt2.i/20100304.b/lowsim.m
Meth Date : 04-Mar-2010 12:23 peter Quant Type: ISTD
Cal Date : 21-OCT-2009 13:30 Cal File: ic102106.d
Als bottle: 12 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pna1mn.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Vt / Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Final Extract Volume (uL)
Vo	500.00000	Sample Volume extracted (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/mL)	CONCENTRATIONS FINAL (ug/L)
*	4 Naphthalene-d8	136	6.965	6.967	(1.000)	242259	200.000	
	5 Naphthalene	128	6.980	6.982	(1.002)	239502	205.308	205
$	6 2-Methylnaphthalene-d10	152	7.811	7.813	(1.121)	135729	217.524	218
	7 2-Methylnaphthalene	142	7.842	7.844	(1.126)	144268	212.068	212
	8 1-Methylnaphthalene	142	7.981	7.982	(1.146)	143317	202.409	202
	10 Acenaphthylene	152	8.969	8.969	(0.979)	205542	222.850	223
*	11 Acenaphthene-d10	164	9.163	9.162	(1.000)	116549	200.000	
	12 Acenaphthene	153	9.201	9.201	(1.004)	131454	229.673	230
	14 Dibenzofuran	168	9.408	9.407	(1.027)	203330	272.686	273
	15 Fluorene	166	9.817	9.817	(1.071)	152880	248.014	248
*	18 Phenanthrene-d10	188	11.001	11.002	(1.000)	171978	200.000	
	19 Phenanthrene	178	11.017	11.017	(1.001)	236102	276.206	276
	20 Anthracene	178	11.078	11.078	(1.007)	208873	239.128	239
	24 Fluoranthene	202	12.494	12.505	(1.136)	251678	270.321	270
	25 Pyrene	202	12.780	12.780	(1.162)	258976	274.024	274

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/mL)	CONCENTRATIONS FINAL (ug/L)
	28 Benzo(a)anthracene	228	14.261	14.261	(0.998)	195359	233.940	234
*	29 Chrysene-d12	240	14.283	14.283	(1.000)	167316	200.000	
	30 Chrysene	228	14.316	14.316	(1.002)	199204	241.779	242
	32 Benzo(b)fluoranthene	252	15.571	15.572	(0.968)	171271	177.225	177
	33 Benzo(k)fluoranthene	252	15.595	15.595	(0.969)	220755	210.389	210
	34 Benzo(a)pyrene	252	16.005	16.006	(0.995)	139114	183.719	184
*	35 Perylene-d12	264	16.090	16.091	(1.000)	168678	200.000	
	37 Indeno(1,2,3-cd)pyrene	276	17.874	17.873	(1.111)	136644	155.725	156
$	36 Dibenzo(a,h)anthracene-d14	292	17.820	17.820	(1.107)	77958	152.476	152
	38 Dibenzo(a,h)anthracene	278	17.887	17.887	(1.112)	110203	160.566	161
	39 Benzo(g,h,i)perylene	276	18.400	18.399	(1.144)	117567	155.381	155

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt2.i
Lab File ID: 030412.d
Lab Smp Id: QL58CMSD
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt2.i/20100304.b/lowsim.m
Misc Info: 10-4798

Calibration Date: 04-MAR-2010
Calibration Time: 10:53
Client Smp ID: CB1022410Comp MS
Level: LOW
Sample Type: Water

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
4 Naphthalene-d8	173109	86554	346218	242259	39.95
11 Acenaphthene-d10	96677	48338	193354	116549	20.56
18 Phenanthrene-d10	147750	73875	295500	171978	16.40
29 Chrysene-d12	135219	67610	270438	167316	23.74
35 Perylene-d12	125815	62908	251630	168678	34.07

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
4 Naphthalene-d8	6.97	6.47	7.47	6.97	-0.02
11 Acenaphthene-d10	9.16	8.66	9.66	9.16	0.00
18 Phenanthrene-d10	11.00	10.50	11.50	11.00	0.00
29 Chrysene-d12	14.28	13.78	14.78	14.28	0.00
35 Perylene-d12	16.09	15.59	16.59	16.09	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Floyd/Snider
Sample Matrix: LIQUID
Lab Smp Id: QL58CMSD
Level: LOW
Data Type: MS DATA
SpikeList File: waterlcs.spk
Sublist File: pna1mn.sub
Method File: /chem3/nt2.i/20100304.b/lowsim.m
Misc Info: 10-4798

Client SDG: QL58
Fraction: SV
Client Smp ID: CB1022410Comp MSD
Operator: VTS
SampleType: MS
Quant Type: ISTD

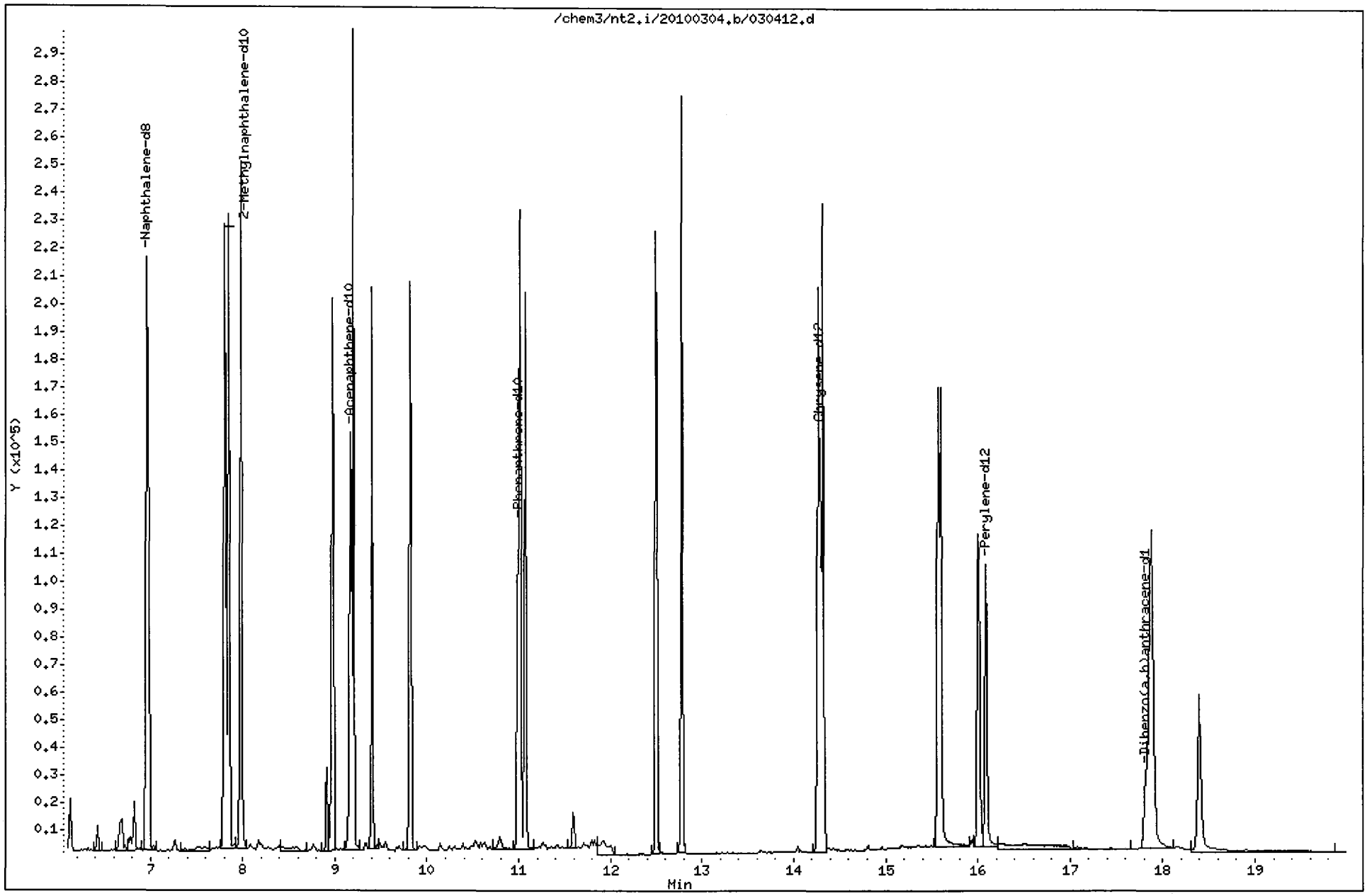
SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
5 Naphthalene	300	205	68.44	41-101
7 2-Methylnaphthalen	300	212	70.69	47-100
8 1-Methylnaphthalen	300	202	67.47	30-160
10 Acenaphthylene	300	223	74.28	35-100
12 Acenaphthene	300	230	76.56	43-104
14 Dibenzofuran	300	273	90.90	37-100
15 Fluorene	300	248	82.67	51-103
19 Phenanthrene	300	276	92.07	55-109
20 Anthracene	300	239	79.71	30-101
24 Fluoranthene	300	270	90.11	49-123
25 Pyrene	300	274	91.34	48-120
28 Benzo(a)anthracene	300	234	77.98	43-113
30 Chrysene	300	242	80.59	59-112
32 Benzo(b)fluoranthe	300	177	59.08	44-121
33 Benzo(k)fluoranthe	300	210	70.13	50-117
34 Benzo(a)pyrene	300	184	61.24	10-100
37 Indeno(1,2,3-cd)py	300	156	51.91	43-112
38 Dibenzo(a,h)anthra	300	161	53.52	42-114
39 Benzo(g,h,i)peryle	300	155	51.79	31-118

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 6 2-Methylnaphthalen	300	218	72.51	31-109
$ 36 Dibenzo(a,h)anthra	300	152	50.83	10-133

Data File: /chem3/nt2.i/20100304.b/030412.d
Date : 04-MAR-2010 16:30
Client ID: CB1022410Comp MSD
Sample Info: QL58CMSD
Volume Injected (uL): 2.0
Column phase: ZB-5

Instrument: nt2.i

Operator: VTS
Column diameter: 0.25



Analytical Resources, Inc.

LOW LEVEL PNAs BY SW8270D-SIM

Data file : /chem3/nt2.i/20100304.b/030407.d
Lab Smp Id: QL58LCSW1 Client Smp ID: QL58LCSW1
Inj Date : 04-MAR-2010 14:27
Operator : VTS Inst ID: nt2.i
Smp Info : QL58LCSW1
Misc Info : 10-4798
Comment :
Method : /chem3/nt2.i/20100304.b/lowsim.m
Meth Date : 05-Mar-2010 11:18 peter Quant Type: ISTD
Cal Date : 21-OCT-2009 13:30 Cal File: ic102106.d
Als bottle: 7 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pna1mn.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt / Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Final Extract Volume (uL)
Vo	500.00000	Sample Volume extracted (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/mL)	CONCENTRATIONS FINAL (ug/L)
*	4 Naphthalene-d8	136	6.967	6.967	(1.000)	252395	200.000	
	5 Naphthalene	128	6.983	6.982	(1.002)	264386	217.538	218
$	6 2-Methylnaphthalene-d10	152	7.814	7.813	(1.121)	150419	231.387	231
	7 2-Methylnaphthalene	142	7.844	7.844	(1.126)	162178	228.821	229
	8 1-Methylnaphthalene	142	7.983	7.982	(1.146)	162363	220.099	220
	10 Acenaphthylene	152	8.968	8.969	(0.978)	205593	205.062	205
*	11 Acenaphthene-d10	164	9.174	9.162	(1.000)	126690	200.000	
	12 Acenaphthene	153	9.200	9.201	(1.003)	143301	230.330	230
	14 Dibenzofuran	168	9.406	9.407	(1.025)	218324	269.357	269
	15 Fluorene	166	9.816	9.817	(1.070)	163024	243.301	243
*	18 Phenanthrene-d10	188	11.000	11.002	(1.000)	185589	200.000	
	19 Phenanthrene	178	11.016	11.017	(1.001)	242497	262.882	263
	20 Anthracene	178	11.077	11.078	(1.007)	186417	197.766	198
	24 Fluoranthene	202	12.505	12.505	(1.137)	277970	276.664	277
	25 Pyrene	202	12.779	12.780	(1.162)	265348	260.174	260
	28 Benzo(a)anthracene	228	14.261	14.261	(0.998)	222524	255.763	256

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/mL)	CONCENTRATIONS FINAL (ug/L)
*	29 Chrysene-d12	240	14.283	14.283	(1.000)	174320	200.000	
	30 Chrysene	228	14.315	14.316	(1.002)	258029	300.594	301
	32 Benzo(b)fluoranthene	252	15.572	15.572	(0.968)	233942	234.165	234
	33 Benzo(k)fluoranthene	252	15.595	15.595	(0.969)	307766	283.729	284
	34 Benzo(a)pyrene	252	16.006	16.006	(0.995)	149759	191.315	191
*	35 Perylene-d12	264	16.091	16.091	(1.000)	174376	200.000	
	37 Indeno(1,2,3-cd)pyrene	276	17.874	17.873	(1.111)	181961	200.594	201
$	36 Dibenzo(a,h)anthracene-d14	292	17.820	17.820	(1.107)	118152	223.539	224
	38 Dibenzo(a,h)anthracene	278	17.888	17.887	(1.112)	158310	223.121	223
	39 Benzo(g,h,i)perylene	276	18.400	18.399	(1.144)	140306	179.375	179

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt2.i
Lab File ID: 030407.d
Lab Smp Id: QL58LCSW1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt2.i/20100304.b/lowsim.m
Misc Info: 10-4798

Calibration Date: 04-MAR-2010
Calibration Time: 10:53
Client Smp ID: QL58LCSW1
Level: LOW
Sample Type: Liquid

Test Mode:
Use Initial Calibration Level 4.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
4 Naphthalene-d8	173109	86554	346218	252395	45.80
11 Acenaphthene-d10	96677	48338	193354	126690	31.04
18 Phenanthrene-d10	147750	73875	295500	185589	25.61
29 Chrysene-d12	135219	67610	270438	174320	28.92
35 Perylene-d12	125815	62908	251630	174376	38.60

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
4 Naphthalene-d8	6.97	6.47	7.47	6.97	0.01
11 Acenaphthene-d10	9.16	8.66	9.66	9.17	0.13
18 Phenanthrene-d10	11.00	10.50	11.50	11.00	-0.01
29 Chrysene-d12	14.28	13.78	14.78	14.28	-0.01
35 Perylene-d12	16.09	15.59	16.59	16.09	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Floyd/Snider
Sample Matrix: LIQUID
Lab Smp Id: QL58LCSW1
Level: LOW
Data Type: MS DATA
SpikeList File: waterlcs.spk
Sublist File: pna1mn.sub
Method File: /chem3/nt2.i/20100304.b/lowsim.m
Misc Info: 10-4798

Client SDG: QL58
Fraction: SV
Client Smp ID: QL58LCSW1
Operator: VTS
SampleType: LCS
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
5 Naphthalene	300	218	72.51	41-101
7 2-Methylnaphthalen	300	229	76.27	47-100
8 1-Methylnaphthalen	300	220	73.37	30-160
10 Acenaphthylene	300	205	68.35	35-100
12 Acenaphthene	300	230	76.78	43-104
14 Dibenzofuran	300	269	89.79	37-100
15 Fluorene	300	243	81.10	51-103
19 Phenanthrene	300	263	87.63	55-109
20 Anthracene	300	198	65.92	30-101
24 Fluoranthene	300	277	92.22	49-123
25 Pyrene	300	260	86.72	48-120
28 Benzo(a)anthracene	300	256	85.25	43-113
30 Chrysene	300	301	100.20	59-112
32 Benzo(b)fluoranthe	300	234	78.05	44-121
33 Benzo(k)fluoranthe	300	284	94.58	50-117
34 Benzo(a)pyrene	300	191	63.77	10-100
37 Indeno(1,2,3-cd)py	300	201	66.86	43-112
38 Dibenzo(a,h)anthra	300	223	74.37	42-114
39 Benzo(g,h,i)peryle	300	179	59.79	31-118

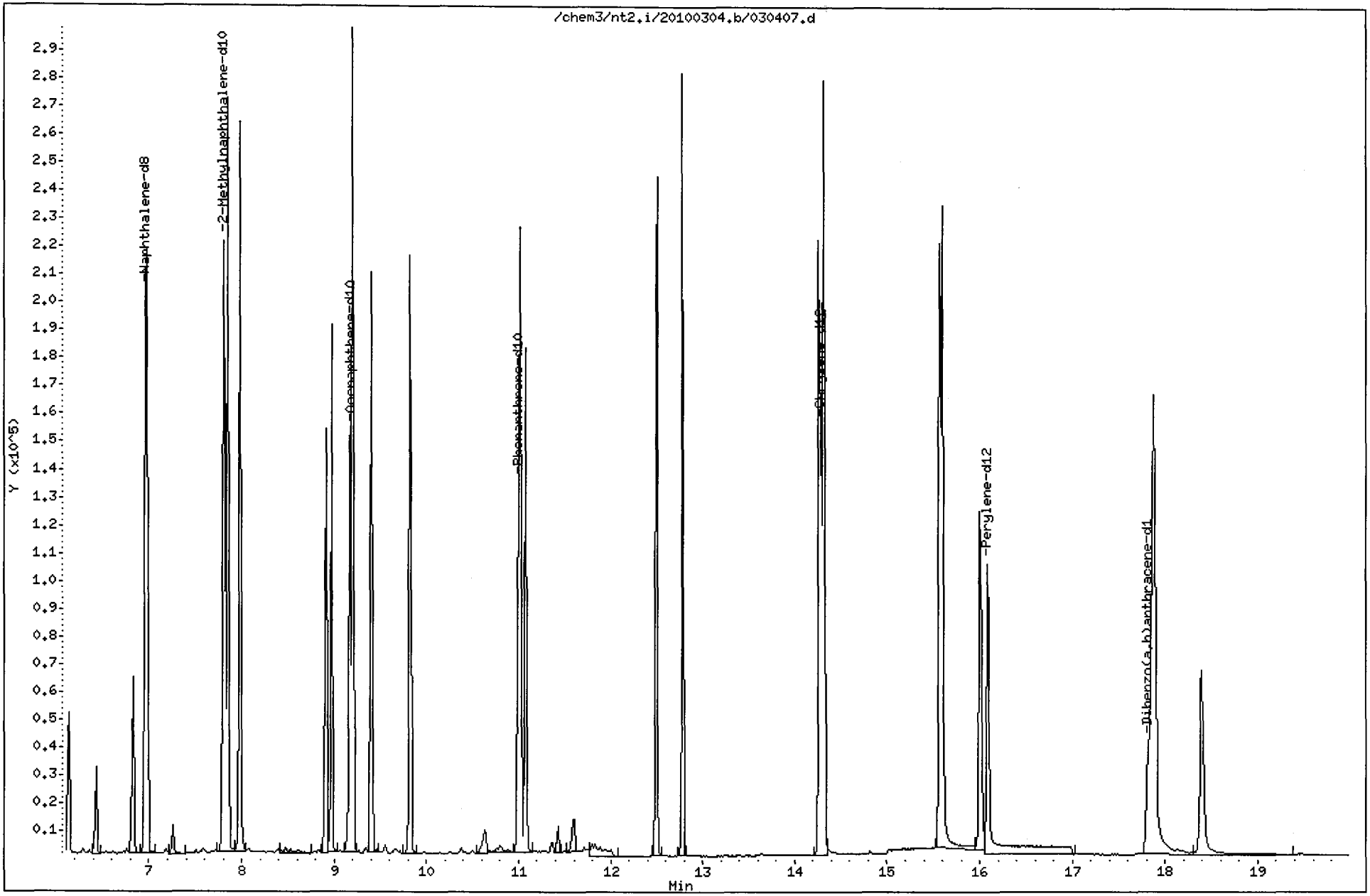
SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 6 2-Methylnaphthalen	300	231	77.13	31-109
$ 36 Dibenzo(a,h)anthra	300	224	74.51	10-133

Data File: /chem3/nt2.i/20100304.b/030407.d
Date : 04-MAR-2010 14:27
Client ID: QL58LCSW1
Sample Info: QL58LCSW1
Volume Injected (uL): 2.0
Column phase: ZB-5

Instrument: nt2.i

Operator: VTS
Column diameter: 0.25

QL58:00215



SIM Semivolatile Analysis
Extraction Bench Sheets/Run Logs

prepared
for

Floyd/Snider

Project: Lora Lake Apartments, POS-LLA

ARI JOB NO: QL58

prepared
by

Analytical Resources, Inc.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Organic Extractions Benchsheet

SIM PNA-Water
Liquid/Liquid (3520C) (SOP # 3311S)

Preparation Test SIM PNA # 4
ARI Job No(s) QL58

Low Level (0.01ppb)
Batch set up by: SP

Bottle #	Extraction Requirements	Verify Client ID	Volume Extracted	Disassemble Liq/Liq	KD Hex X	TurboVap 1(2)3	(REQ) Silica Gel Clean (1:1)	TurboVap 1 2 (3)	Final Effective Volume	Volume to Lab	Comments
	QL58 MBW	Date 3-1-10	500mL	↓	↓	↓	↓	↓	0.5mL	0.5mL	
	↓ SBW	↓	↓	↓	↓	↓	↓	↓	↓	↓	
	SBW Dup.		↓	↓	↓	↓	↓	↓	↓	↓	
5	QL58 A	verified	500mL	↓	↓	↓	↓	↓	↓	↓	
5	B		↓	↓	↓	↓	↓	↓	↓	↓	
7,9,10	C		↓	↓	↓	↓	↓	↓	↓	↓	Homogenized
↓	CMS		↓	↓	↓	↓	↓	↓	↓	↓	↓
↓	CMSD		↓	↓	↓	↓	↓	↓	↓	↓	
5	D		↓	↓	↓	↓	↓	↓	↓	↓	
Analyst/Date:		PP 3-1-10		AC 3/02/10	TS 3-2-10	MP 03/03/10	MP 03/03/10	MP 03/03/10	MP 03/03/10	MP 03/03/10	

Standard	Standard ID	Volume	Expiration Date	Analyst	Witness
Surrogate	I	**100µL**	8/12/10	PP	SP
Spike	18 B	**100µL**	8/25/10	PP	SP
Extraction Time:	1025	**Liq/Liq Start:** 1047		**Liq/Liq Stop:** 06:05	

SPECIAL INSTRUCTIONS: 1. Rinse all glassware with Low Level DCM. 2. Use 500mL Liq/Liq Body 3. Add 20-25mL Low Level Hexane. 4. Add ~200mL Low Level DCM to Liq/Liq. 5. Add surr/spike. 6. Extract minimum 8 hrs. 7. KD (no drying column) to ~8mL at 80°. 8. Exchange (2 X with 10mL) to Low Level Hexane at 100°. 9. TurboVap. 10. Silica Clean-up=REQUIRED. 11. TurboVap. 12. Vial in Low Level DCM. 13. Post Screen extracts with any color noted for Silica Gel Clean-up.

A. Archive (Y) N

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Organic Extractions Laboratory Analyst Notes

ARI Job No.: QL58 Client ID: Floyd/Snider

Parameter: low level Sim pNA Client Project: Lora Lakes Apartments

Note problems, concerns, corrective actions	Analyst/Date
Screens: Soil/Sediment/Solid/Other:	
☐ No Anomalies (standard soil/sediment)	
☐ Wet sediment/sludge=	
☐ Standing Water Decanted=	
☐ Standing Water Homogenized (Shared samples)=	
☐ Clay (Difficult to homogenize/Mixed with Kitchen Aid)=	
☐ Rocks/Organics=	
☐ Oily, obvious fuel/sulfur odors=	
☐ Other (Details)=	
Aqueous:	
☐ No Anomalies	
☑ Turbid/Color= A, B, C, D are tan,	PDJ-1-10
☐ Particulates=	
☐ Emulsions=	
☐ Other (Details)=	
☐ Other Notes/Comments=	

3056F

Revision 007
02/25/10

Analytical Resources Inc.: Organics Instrument Log

NT-2 Serial No.: 82321977

Date: 10/21/09 Analysis: LOWSIM PNA Analyst: ph

GC Program: LOWSIM Column No: 165239 Column Type: ZB5 MSI

Instrument Tune (.U or .CT.): 090928.U EM Voltage: 2424

Calibration File: df1021 Curve Date: 10/21/09

IS/SS	Ical/Ccal	LCS/ICV
1584-1	1665-3	

	Time	Filename	LabID	ClientId	DF									
1	1055	df1021.d	DFTPP		1	NO ISTDS FOUND								
2	1137	ic102101.d	PNA 250		1	6.23	173109	8.42	96677	10.21	147750	13.47	135219	15.11	125815
3	1200	ic102102.d	PNA 1000		1	6.23	188814	8.42	92483	10.21	148959	13.47	138468	15.10	125212
4	1222	ic102103.d	PNA 10		1	6.23	163657	8.42	80791	10.21	128448	13.47	118404	15.10	109902
5	1245	ic102104.d	PNA 500		1	6.23	177186	8.42	88802	10.21	144260	13.47	127406	15.10	116403
6	1307	ic102105.d	PNA 50		1	6.23	163275	8.42	80083	10.21	130872	13.47	119291	15.10	109601
7	1330	ic102106.d	PNA 100		1	6.23	164822	8.42	82096	10.21	134536	13.47	122702	15.10	111608
8	1352	ic102107.d	ICV		1	6.23	158208	8.42	82458	10.21	134236	13.47	116103	15.10	105713
9	1417	102101.d	PS52MBW1	PS52MBW1	1	6.23	175904	8.40	90261	10.21	137446	13.47	111636	15.10	103842
10	1440	102102.d	PS52LCSW1	PS52LCSW1	1	6.23	170961	8.42	90143	10.21	140571	13.47	114001	15.10	104592
11	1502	102103.d	PS52A	1009PSR02	1	6.24	174532	8.42	91014	10.21	138793	13.47	109311	15.10	100596
12	1525	102104.d	PS52B	1009PSR06	1	6.23	163118	8.42	88047	10.21	136570	13.48	128420	15.11	114082
13	1547	102105.d	PS52BMS	1009PSR06 MS	1	6.23	154113	8.40	86094	10.21	135585	13.47	122604	15.11	111870
14	1610	102106.d	PS52BMSD	1009PSR06 MS	1	6.23	157767	8.42	82085	10.21	132819	13.48	119576	15.10	107998
15	1633	102107.d	PS52C	1009PSR07	1	6.23	151004	8.40	83049	10.21	127310	13.48	115567	15.11	104650
16	1655	102108.d	PS52D	1009PSR08	1	6.23	145328	8.40	80578	10.21	126441	13.47	100861	15.10	94111
17	1718	102109.d	PS52E	1009PSR14	1	6.23	146730	8.40	78729	10.21	123966	13.47	99070	15.10	92085
18	1740	102110.d	PS52F	1009PSR09	1	6.23	148145	8.40	78140	10.21	120480	13.47	98501	15.10	89598
19	1803	102111.d	PS52G	1009PSR10	1	6.23	147860	8.40	76083	10.21	119300	13.46	95412	15.10	87073
20	1825	102112.d	PS52H	1009PSR11	1	6.38	3459916	8.43	138220	10.22	89906	13.47	67099	15.10	60014
21	1848	102113.d	PS52I	1009PSR12	1	6.24	144978	8.43	62601	10.22	69842	13.47	56461	15.10	50520
22	1910	102114.d	PS52J	SSV0378	1	6.23	70474	8.40	37554	10.21	58704	13.46	48381	15.10	44905
23	1933	102115.d	PS67A	1009PSR05	1	6.23	69936	8.40	36758	10.21	60869	13.47	48300	15.10	44710
24	1955	102116.d	PS67B	1009PSR13	1	6.23	66573	8.40	36261	10.21	55494	13.46	46657	15.10	42199
25	2018	102117.d	PS67C		1	6.23	67515	8.40	34507	10.21	55245	13.46	44617	15.10	40086
26	2040	102118.d	PS67D	1009PSR01	1	6.23	65209	8.40	34329	10.21	53352	13.46	42240	15.10	39135
27	2103	102119.d	PS67E	1009PSR03	1	6.23	76319	8.42	39233	10.22	59390	13.47	69138	15.10	45582
28	2125	102120.d	PS67F	1009PSR04	1	6.23	67640	8.42	37153	10.21	57142	13.47	50757	15.10	46670

Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

New liner, clip col IC102401

Analytical Resources, Incorporated
Analytical Chemists and Consultants

GC/MS SVOA Analyst Notes / Corrective Action Log

ARI Project ID: _____ Client ID: _____

ARI SOP: **801S**(SIM-PNA) **802S**(Butyl Tins) **804S**(SVOA-8270D) **805S**(op-Pest)

Parameter(s): NPL Low Sim PNA CURVE 10/21/09

Instrument: NT-1 (NT-2) NT-4 NT-6 NT-8

Curve Date: 10/21/09 Analysis Start Date: _____

DFTPP Tune Meets Criteria?	(YES) / NO	Internal Standard Meets Criteria?	YES / NO
DDT Breakdown <20%?	(YES) / NO / NA	Method Blank In Control?	YES / NO
Peak Tailing Factor ≤2?	(YES) / NO / NA	LCS / LCSD Recovery In Control?	YES / NO
ICal acceptable (YES) / NO; Q flag applied YES / (NO)		Surrogate Recovery In Control?	YES / NO
CCal acceptable YES / NO; Q flag applied YES / NO		Special Analysis Criteria Met?	YES / NO / NA

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

All cmpds < 20% RSD

Additional Details on Reverse: Yes / No

Analyst Signature: Phyllis **Date:** 10/22/09

Reviewer's Signature: J. D. **Date:** 11.21.2009

Analytical Resources Inc.: Organics Instrument Log

NT-2 Serial No.: 82321977

Date: 3/4/10 Analysis: LOWSIMPNA Analyst: MK

GC Program: LOWSIM Column No: 171137 Column Type: ZB5 MSi

Instrument Tune (.U or .CT.): 090928.U EM Voltage: 2424

Calibration File: df0304 Curve Date: 10/21/09

IS/SS	Ical/Ccal	LCS/ICV
1584-1	1665-3	

INTERNAL STANDARD SUMMARY FOR DATABATCH - /chem3/nt2.i/20100304.b

	Time	Filename	LabID	ClientId	DF								
1	1036	df0304.d	DFTPP		1	NO ISTDS FOUND							
2	1053	cc0304.d	PNA 250		1	6.97	263993	9.16	121193	11.00	179277	14.28	168174	16.09	156886
3	1200	030401.d	QL13MBW1	QL13MBW1	1	6.97	282929	9.17	138236	11.00	213407	14.29	194417	16.09	172119
4	1225	030402.d	QL13LCSW1	QL13LCSW1	1	6.97	267168	9.17	129288	11.00	192695	14.28	183070	16.09	163816
5	1249	030403.d	QL13LCSDW1	QL13LCSDW1	1	6.96	274124	9.18	133255	11.00	193791	14.28	181968	16.09	161160
6	1314	030404.d	QL13A	NBF-MH108-02	1	6.97	265651	9.18	129336	11.00	193150	14.28	185905	16.09	163849
7	1338	030405.d	QL13B	NBF-LS431-02	1	6.97	269847	9.17	127778	11.00	187315	14.29	179013	16.09	165073
8	1403	030406.d	QL58MBW1	QL58MBW1	1	6.97	265403	9.16	130397	11.00	188849	14.28	177979	16.09	183322
9	1427	030407.d	QL58LCSW1	QL58LCSW1	1	6.97	252395	9.17	126690	11.00	185589	14.28	174320	16.09	174376
10	1452	030408.d	QL58A	CB31A022410C	1	6.97	251378	9.17	123399	11.00	176295	14.29	188697	16.09	207246
11	1516	030409.d	QL58B	CB4857022410	1	6.97	247888	9.16	121086	11.00	176296	14.29	192121	16.09	196774
12	1541	030410.d	QL58C	CB1022410Com	1	6.96	254033	9.16	124735	11.00	181797	14.28	179867	16.09	188810
13	1606	030411.d	QL58CMS	CB1022410Com	1	6.96	262772	9.16	124155	10.99	180669	14.28	175427	16.09	184632
14	1630	030412.d	QL58CMSD	CB1022410Com	1	6.97	242259	9.16	116549	11.00	171978	14.28	167316	16.09	168678
15	1655	030413.d	QL58D	CB100022410C	1	6.97	250336	9.16	116616	11.00	174682	14.29	183394	16.10	189085

Maintenance / Comments

MK 3/5/10

NONE

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control): CC0304

Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

GC/MS SVOA Analyst Notes / Corrective Action Log

ARI Project ID: QL58 Client ID: Floyd Snider

ARI SOP: **801S**(SIM-PNA) **802S**(Butyl Tins) **804S**(SVOA-8270D) **805S**(op-Pest)

Parameter(s): Low Sim PNA

Instrument: NT-1 (NT-2) NT-4 NT-6 NT-8

Curve Date: 10/21/09 Analysis Start Date: 3/4/10

DFTPP Tune Meets Criteria?	(YES) / NO	Internal Standard Meets Criteria?	(YES) / NO
DDT Breakdown <20%?	(YES) / NO / NA	Method Blank In Control?	(YES) / NO
Peak Tailing Factor ≤2?	(YES) / NO / NA	LCS / LCSD Recovery In Control?	(YES) / NO
ICal acceptable (YES) / NO; Q flag applied YES / (NO)		Surrogate Recovery In Control?	(YES) / NO
CCal acceptable (YES) / NO; Q flag applied YES / (NO)		Special Analysis Criteria Met?	YES / NO / NA

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

Additional Details on Reverse: Yes / No

Analyst Signature: [signature] **Date:** 3/8/10

Reviewer's Signature: [signature] **Date:** 3/8/10

QL58 : 00256

PCP/Chlorophenols ANALYSIS
QC Summary Data

prepared
for

Floyd/Snider

Project: Lora Lake Apartments, POS-LLA

ARI JOB NO: QL58

prepared
by

Analytical Resources, Inc.

ANALYTICAL RESOURCES INCORPORATED

SW8041 CHLOROPHENOLICS SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: QL58-Floyd/Snider
Project: Lora Lake Apartments
POS-LLA

Client ID	TBP	TOT OUT
CB31A022410Comp	56.0%	0
CB4857022410Comp	55.6%	0
MB-030210	73.6%	0
LCS-030210	72.2%	0
CB1022410Comp	46.8%	0
CB1022410Comp MS	54.8%	0
CB1022410Comp MSD	53.6%	0
CB100022410Comp	54.0%	0

	LCS/MB LIMITS	QC LIMITS
(TBP) = 2,4,6-Tribromophenol	(40-130)	(11-156)

Prep Method: SW3510C
Log Number Range: 10-4796 to 10-4799

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Page 1 of 1

Sample ID: CB1022410Comp
MS/MSD

Lab Sample ID: QL58C
LIMS ID: 10-4798
Matrix: Water
Data Release Authorized:
Reported: 03/05/10

QC Report No: QL58-Floyd/Snider
Project: Lora Lake Apartments
POS-LLA
Date Sampled: 02/24/10
Date Received: 02/25/10

Date Extracted MS/MSD: 03/02/10

Sample Amount MS: 500 mL
MSD: 500 mL

Date Analyzed MS: 03/05/10 00:07
MSD: 03/05/10 00:27

Final Extract Volume MS: 50 mL
MSD: 50 mL

Instrument/Analyst MS: ECD1/AAR
MSD: ECD1/AAR

Dilution Factor MS: 1.00
MSD: 1.00

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Pentachlorophenol	< 0.25 U	1.69	2.50	67.6%	1.68	2.50	67.2%	0.6%

Results reported in µg/L
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Page 1 of 1

Sample ID: LCS-030210
LAB CONTROL

Lab Sample ID: LCS-030210
LIMS ID: 10-4798
Matrix: Water
Data Release Authorized:
Reported: 03/05/10

QC Report No: QL58-Floyd/Snider
Project: Lora Lake Apartments
POS-LLA
Date Sampled: 02/24/10
Date Received: 02/25/10

Date Extracted: 03/02/10
Date Analyzed: 03/04/10 22:47
Instrument/Analyst: ECD1/AAR

Sample Amount: 500 mL
Final Extract Volume: 50 mL
Dilution Factor: 1.00

Analyte	Lab Control	Spike Added	Recovery
Pentachlorophenol	2.25	2.50	90.0%

Chlorophenols Surrogate Recovery

2,4,6-Tribromophenol	72.2%

Results reported in µg/L

4

CHLOROPHENOL METHOD BLANK SUMMARY

SAMPLE NO.

QL58MBW1

Lab Name: ANALYTICAL RESOURCES, INC — Client: FLOYD/SNIDER

ARI Job No.: QL58 — Project: LORA LAKE APARTMENTS

Lab Sample ID: QL58MBW1 — Lab File ID: 0304A022

Matrix (soil/water) LIQUID — Extraction:(SepF/Cont/Sonc) SW3510C

Sulfur Cleanup (Y/N) Y — Date Extracted: 03/02/10

Date Analyzed (1): 03/04/10 — Date Analyzed (2): 03/04/10

Time Analyzed (1): 2228 — Time Analyzed (2): 2228

Instrument ID (1): ECD1 — Instrument ID (2): ECD1

GC Column (1): ZB5 ID: 0.53(mm) — GC Column (2): ZB35 ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	QL58LCSW1	QL58LCSW1	03/04/10	03/04/10
02	CB31A022410C	QL58A	03/04/10	03/04/10
03	CB4857022410	QL58B	03/04/10	03/04/10
04	CB1022410COM	QL58C	03/04/10	03/04/10
05	CB1022410COM	QL58CMS	03/05/10	03/05/10
06	CB1022410COM	QL58CMSD	03/05/10	03/05/10
07	CB100022410C	QL58D	03/05/10	03/05/10

CHLOROPHENOL ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

ARI Job No.: QL58 Project: LORA LAKE APARTMENTS

GC Column: ZB5 ID: 0.53 (mm) Instrument ID: ECD1

Init. Calib. Date(s): 02/18/10 02/18/10

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 9.90

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #
01		PCPD	02/18/10	2017	9.90
02		PCPA	02/18/10	2037	9.91
03		PCPB	02/18/10	2057	9.91
04		PCPC	02/18/10	2117	9.90
05		PCPE	02/18/10	2137	9.90
06		PCPF	02/18/10	2156	9.90
07	ZZZZZ	ZZZZZ	02/18/10	2216	9.90
08	ZZZZZ	ZZZZZ	03/04/10	2128	----
09	ZZZZZ	ZZZZZ	03/04/10	2148	9.91
10		PCP CCAL	03/04/10	2208	9.91
11	QL58MBW1	QL58MBW1	03/04/10	2228	9.93
12	QL58LCSW1	QL58LCSW1	03/04/10	2247	9.92
13	CB31A022410C	QL58A	03/04/10	2307	9.90
14	CB4857022410	QL58B	03/04/10	2327	9.91
15	CB1022410COM	QL58C	03/04/10	2347	9.91
16	CB1022410COM	QL58CMS	03/05/10	0007	9.91
17	CB1022410COM	QL58CMSD	03/05/10	0027	9.91
18	CB100022410C	QL58D	03/05/10	0046	9.91
19	ZZZZZ	ZZZZZ	03/05/10	0106	9.91
20		PCP CCAL	03/05/10	0126	9.91

QC LIMITS

S1 = 2,4,6-Tribromophenol (+/- 0.07 MINUTES)

* Values outside of QC limits.

FORM VIII PCP

CHLOROPHENOL ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

ARI Job No.: QL58 Project: LORA LAKE APARTMENTS

GC Column: ZB35 ID: 0.53 (mm) Instrument ID: ECD1

Init. Calib. Date(s): 02/18/10 02/18/10

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 10.55

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #
01		PCPD	02/18/10	2017	10.54
02		PCPA	02/18/10	2037	10.55
03		PCPB	02/18/10	2057	10.55
04		PCPC	02/18/10	2117	10.54
05		PCPE	02/18/10	2137	10.54
06		PCPF	02/18/10	2156	10.54
07	ZZZZZ	ZZZZZ	02/18/10	2216	10.54
08	ZZZZZ	ZZZZZ	03/04/10	2128	----
09	ZZZZZ	ZZZZZ	03/04/10	2148	10.55
10		PCP CCAL	03/04/10	2208	10.55
11	QL58MBW1	QL58MBW1	03/04/10	2228	10.56
12	QL58LCSW1	QL58LCSW1	03/04/10	2247	10.56
13	CB31A022410C	QL58A	03/04/10	2307	10.55
14	CB4857022410	QL58B	03/04/10	2327	10.55
15	CB1022410COM	QL58C	03/04/10	2347	10.55
16	CB1022410COM	QL58CMS	03/05/10	0007	10.55
17	CB1022410COM	QL58CMSD	03/05/10	0027	10.55
18	CB100022410C	QL58D	03/05/10	0046	10.55
19	ZZZZZ	ZZZZZ	03/05/10	0106	10.55
20		PCP CCAL	03/05/10	0126	10.55

QC LIMITS

S1 = 2,4,6-Tribromophenol (+/- 0.07 MINUTES)

* Values outside of QC limits.

FORM VIII PCP

PCP/Chlorophenols ANALYSIS
Sample Data

prepared
for

Floyd/Snider

Project: Lora Lake Apartments, POS-LLA

ARI JOB NO: QL58

prepared
by

Analytical Resources, Inc.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Page 1 of 1

Sample ID: CB31A022410Comp
SAMPLE

Lab Sample ID: QL58A
LIMS ID: 10-4796
Matrix: Water
Data Release Authorized:
Reported: 03/05/10

QC Report No: QL58-Floyd/Snider
Project: Lora Lake Apartments
POS-LLA
Date Sampled: 02/24/10
Date Received: 02/25/10

Date Extracted: 03/02/10
Date Analyzed: 03/04/10 23:07
Instrument/Analyst: ECD1/AAR

Sample Amount: 500 mL
Final Extract Volume: 50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	0.25	0.48

Reported in µg/L (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	56.0%

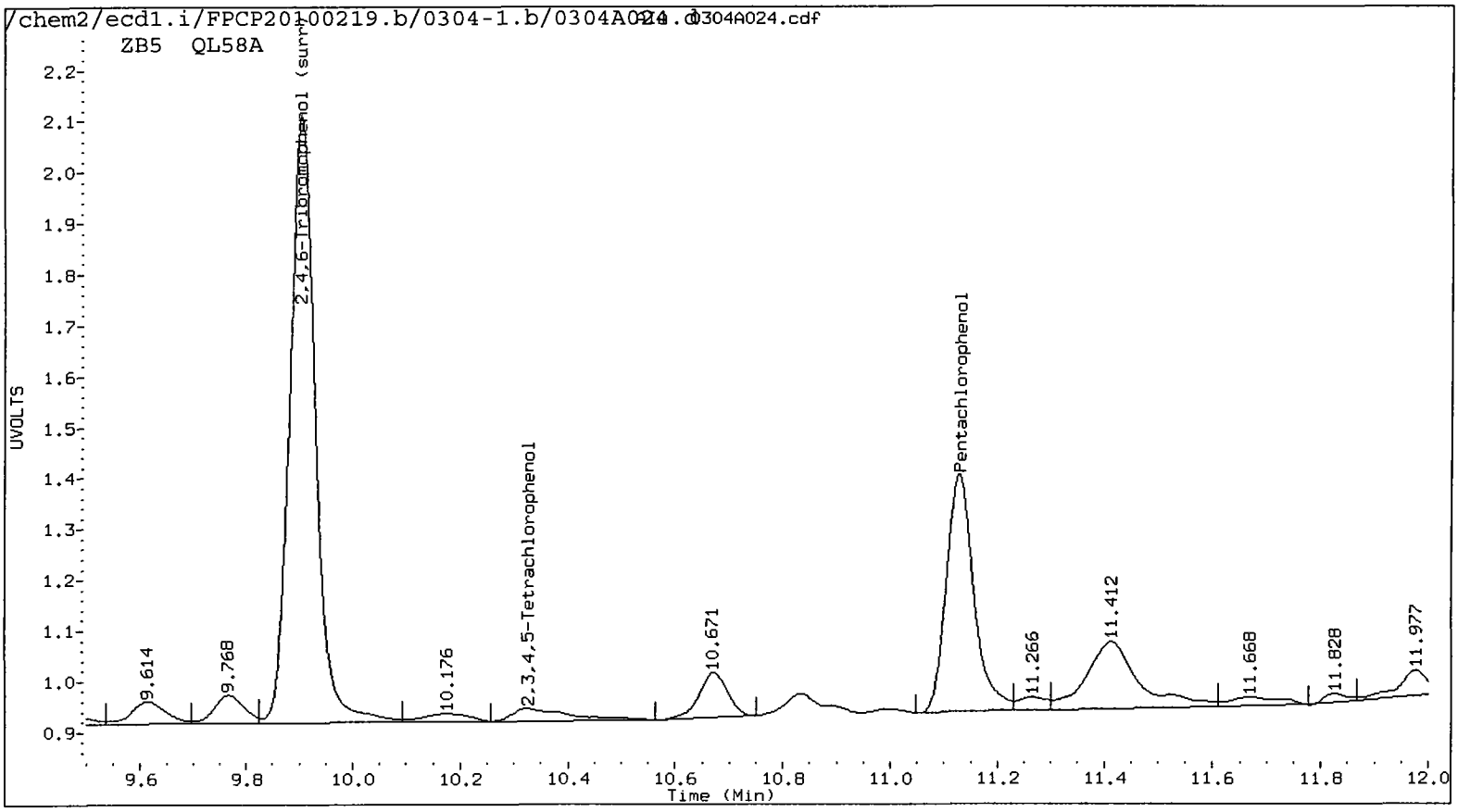
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report AR 3/5/2010

Data file 1: /chem2/ecd1.i/FPCP20100219.b/0304-1.b/0304A024.d ARI ID: QL58A
Data file 2: /chem2/ecd1.i/FPCP20100219.b/0304-2.b/0304A024.d Client ID: CB31A022410Comp
Method: /chem2/ecd1.i/FPCP20100219.b/FPCP.m Injection Date: 04-MAR-2010 23:07
Compound Sublist: all Report Date: 03/05/2010 14:51
Instrument: ecd1.i Matrix: WATER
Operator: ar Dilution Factor: 1.000

ZB-5 Col			ZB35 Col			ZB-5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound
11.129	0.006	83609	11.577	0.001	99109	4.5663	4.8217	5.4	Pentachlorophenol
----			7.265	0.003	3563	0.0000	0.3133	---	2,4,6-Trichlorophenol
7.529	-0.011	9707	7.779	-0.007	1808	0.9688	0.1603	143.2*	2,3,6-Trichlorophenol
----			8.457	-0.062	1744	0.0000	0.2956	---	2,4,5-Trichlorophenol
8.728	0.047	36454	----			5.1543	0.0000	---	2,3,4-Trichlorophenol
8.951	0.039	13431	9.201	0.017	3455	0.8750	0.2034	124.5*	2,3,5,6-Tetrachlorophenol
10.326	0.023	9082	11.011	-0.012	2657	0.7734	0.2031	116.8*	2,3,4,5-Tetrachlorophenol
6.845	0.028	5230	7.079	-0.011	3655	10.6248	6.4794	48.5*	2,4-Dichlorophenol
9.905	0.006	200577	10.547	0.001	233455	13.7	14.07	1.7	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
2,4,6-TBP (surr)	54.9	55.9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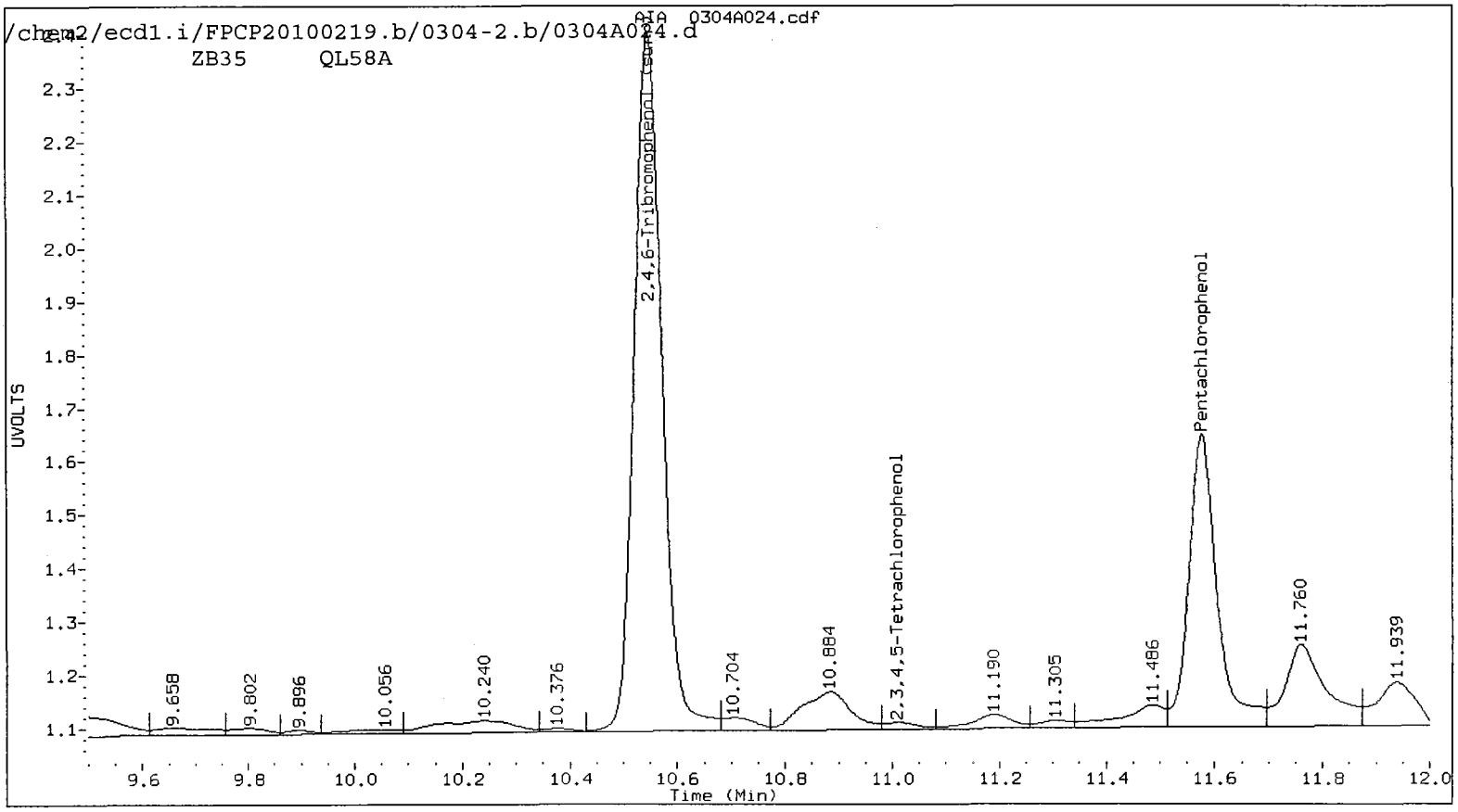
ZB5 QL58A
UVOLTS
Time (Min)
2,4,6-Tribromophenol (surr)
9.614
9.768
10.176
2,3,4,5-Tetrachlorophenol
10.671
Pentachlorophenol
11.266
11.412
11.668
11.828
11.977


/chem2/ecd1.i/FPCP20100219.b/0304-2.b/0304A024.d 0304A024.cdf
ZB35 QL58A
UVOLTS
Time (Min)
2,4,6-Tribromophenol (surr)
9.658
9.802
9.896
10.056
10.240
10.376
10.704
10.884
2,3,4,5-Tetrachlorophenol
11.190
11.305
11.486
Pentachlorophenol
11.760
11.939

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Page 1 of 1

Sample ID: CB4857022410Comp
SAMPLE

Lab Sample ID: QL58B
LIMS ID: 10-4797
Matrix: Water
Data Release Authorized:
Reported: 03/05/10

QC Report No: QL58-Floyd/Snider
Project: Lora Lake Apartments
POS-LLA
Date Sampled: 02/24/10
Date Received: 02/25/10

Date Extracted: 03/02/10
Date Analyzed: 03/04/10 23:27
Instrument/Analyst: ECD1/AAR

Sample Amount: 500 mL
Final Extract Volume: 50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
87-86-5	**Pentachlorophenol**	**0.25**	**0.38**

Reported in µg/L (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	55.6%

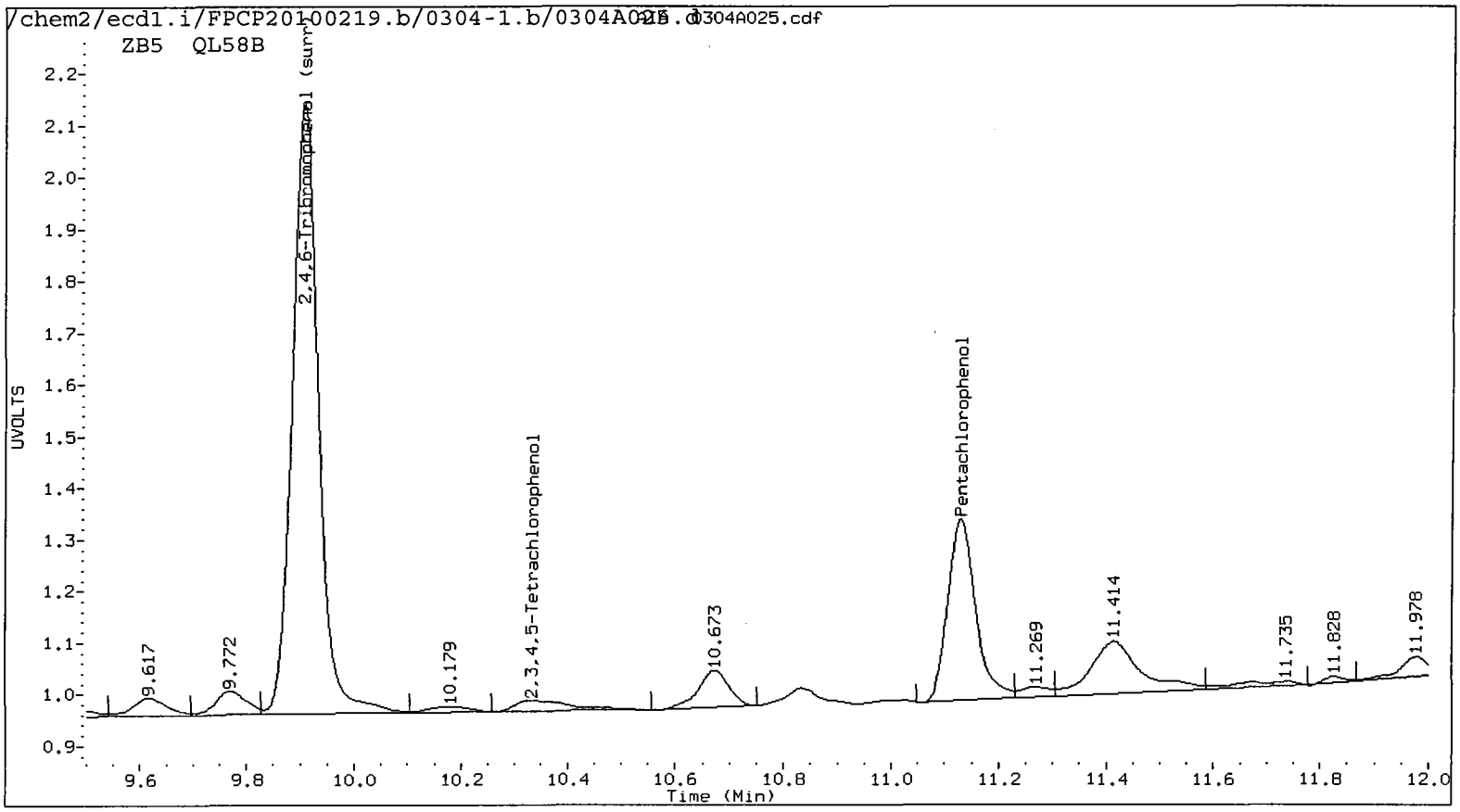
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report AR 3/5/2010

Data file 1: /chem2/ecd1.i/FPCP20100219.b/0304-1.b/0304A025.d ARI ID: QL58B
Data file 2: /chem2/ecd1.i/FPCP20100219.b/0304-2.b/0304A025.d Client ID: CB4857022410Comp
Method: /chem2/ecd1.i/FPCP20100219.b/FPCP.m Injection Date: 04-MAR-2010 23:27
Compound Sublist: all Report Date: 03/05/2010 14:51
Instrument: ecd1.i Matrix: WATER
Operator: ar Dilution Factor: 1.000

ZB-5 Col			ZB35 Col			ZB-5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound
11.130	0.007	62639	11.577	0.001	77585	3.4210	3.7746	9.8	Pentachlorophenol
7.123	-0.067	19416	7.275	0.013	2077	1.9215	0.1827	165.3*	2,4,6-Trichlorophenol
7.536	-0.004	5308	7.780	-0.007	1707	0.5297	0.1513	111.1*	2,3,6-Trichlorophenol
----			8.466	-0.054	2810	0.0000	0.4763	---	2,4,5-Trichlorophenol
8.643	-0.038	24753	----			3.4999	0.0000	---	2,3,4-Trichlorophenol
8.954	0.042	10325	9.202	0.018	2063	0.6727	0.1215	138.8*	2,3,5,6-Tetrachlorophenol
10.333	0.031	8075	11.010	-0.014	1556	0.6876	0.1190	141.0*	2,3,4,5-Tetrachlorophenol
6.846	0.029	3763	7.081	-0.010	2061	7.6434	3.6547	70.6*	2,4-Dichlorophenol
9.907	0.008	200052	10.547	0.001	231850	13.7	13.9	1.3	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
2,4,6-TBP (surr)	54.8	55.5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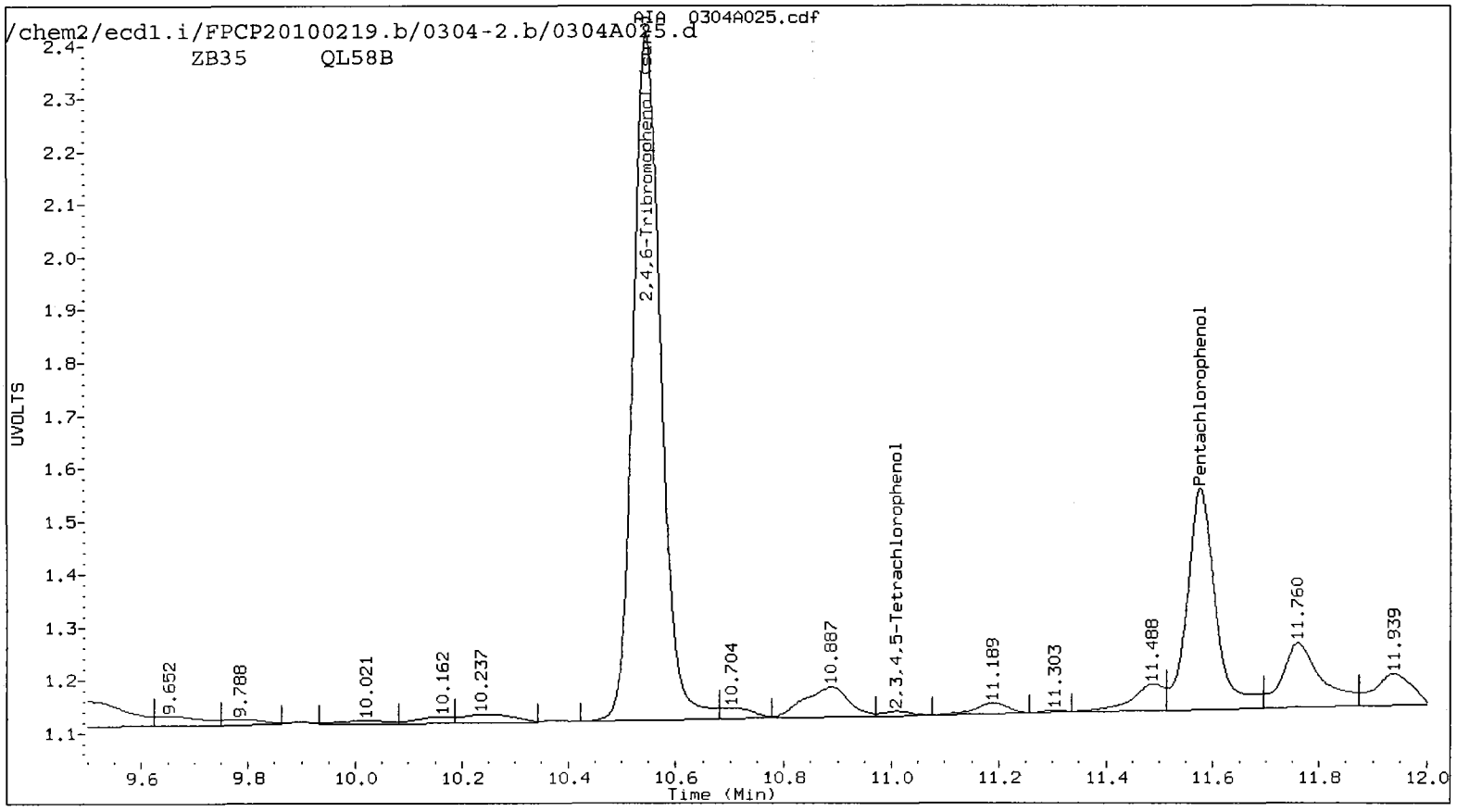
ZB5 QL58B
UVOLTS
Time (Min)
9.617
9.772
2,4,6-Tribromophenol (surr
10.179
2,3,4,5-Tetrachlorophenol
10.673
Pentachlorophenol
11.269
11.414
11.735
11.828
11.978


/chem2/ecd1.i/FPCP20100219.b/0304-2.b/0304A025.d 0304A025.cdf
ZB35 QL58B
UVOLTS
Time (Min)
9.652
9.788
10.021
10.162
10.237
2,4,6-Tribromophenol (surr
10.704
10.887
2,3,4,5-Tetrachlorophenol
11.189
11.303
11.488
Pentachlorophenol
11.760
11.939

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041

Sample ID: CB1022410Comp
SAMPLE

Lab Sample ID: QL58C
LIMS ID: 10-4798
Matrix: Water
Data Release Authorized:
Reported: 03/05/10

QC Report No: QL58-Floyd/Snider
Project: Lora Lake Apartments
POS-LLA
Date Sampled: 02/24/10
Date Received: 02/25/10

Date Extracted: 03/02/10
Date Analyzed: 03/04/10 23:47
Instrument/Analyst: ECD1/AAR

Sample Amount: 500 mL
Final Extract Volume: 50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	0.25	< 0.25 U

Reported in µg/L (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	46.8%

Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

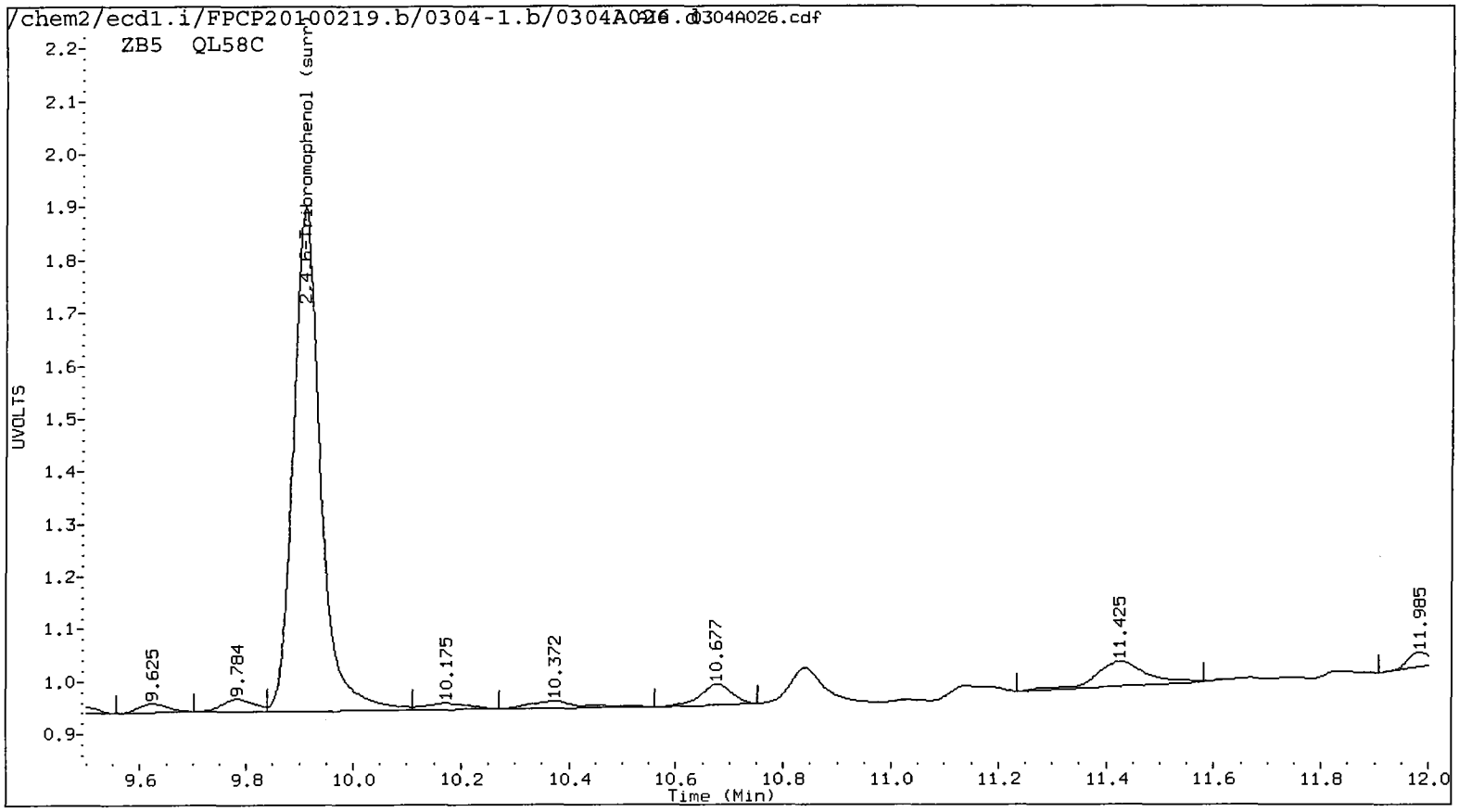
AR 3/5/2010

Data file 1: /chem2/ecd1.i/FPCP20100219.b/0304-1.b/0304A026.d ARI ID: QL58C
Data file 2: /chem2/ecd1.i/FPCP20100219.b/0304-2.b/0304A026.d Client ID: CB1022410Comp
Method: /chem2/ecd1.i/FPCP20100219.b/FPCP.m Injection Date: 04-MAR-2010 23:47
Compound Sublist: all Report Date: 03/05/2010 14:51
Instrument: ecd1.i Matrix: WATER
Operator: ar Dilution Factor: 1.000

ZB-5 Col			ZB35 Col			ZB-5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound
----			11.580	0.004	8212	0.0000	0.3995 LRe	---	Pentachlorophenol
7.140	-0.050	21932	7.278	0.016	1064	2.1704	0.0936	183.5*	2,4,6-Trichlorophenol
7.536	-0.004	5522	7.782	-0.005	900	0.5511	0.0799	149.4*	2,3,6-Trichlorophenol
8.201	0.064	12251	8.473	-0.047	1519	2.4206	0.2575	161.5*	2,4,5-Trichlorophenol
8.647	-0.033	13634	----			1.9277	0.0000	---	2,3,4-Trichlorophenol
8.863	-0.049	3853	----			0.2511	0.0000	---	2,3,5,6-Tetrachlorophenol
----			11.004	-0.020	1969	0.0000	0.1506	---	2,3,4,5-Tetrachlorophenol
6.842	0.025	6361	7.029	-0.062	8604	12.9220	15.2510	16.5	2,4-Dichlorophenol
9.911	0.011	170451	10.549	0.003	193792	11.7	11.6	0.6	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
2,4,6-TBP (surr)	46.7	46.4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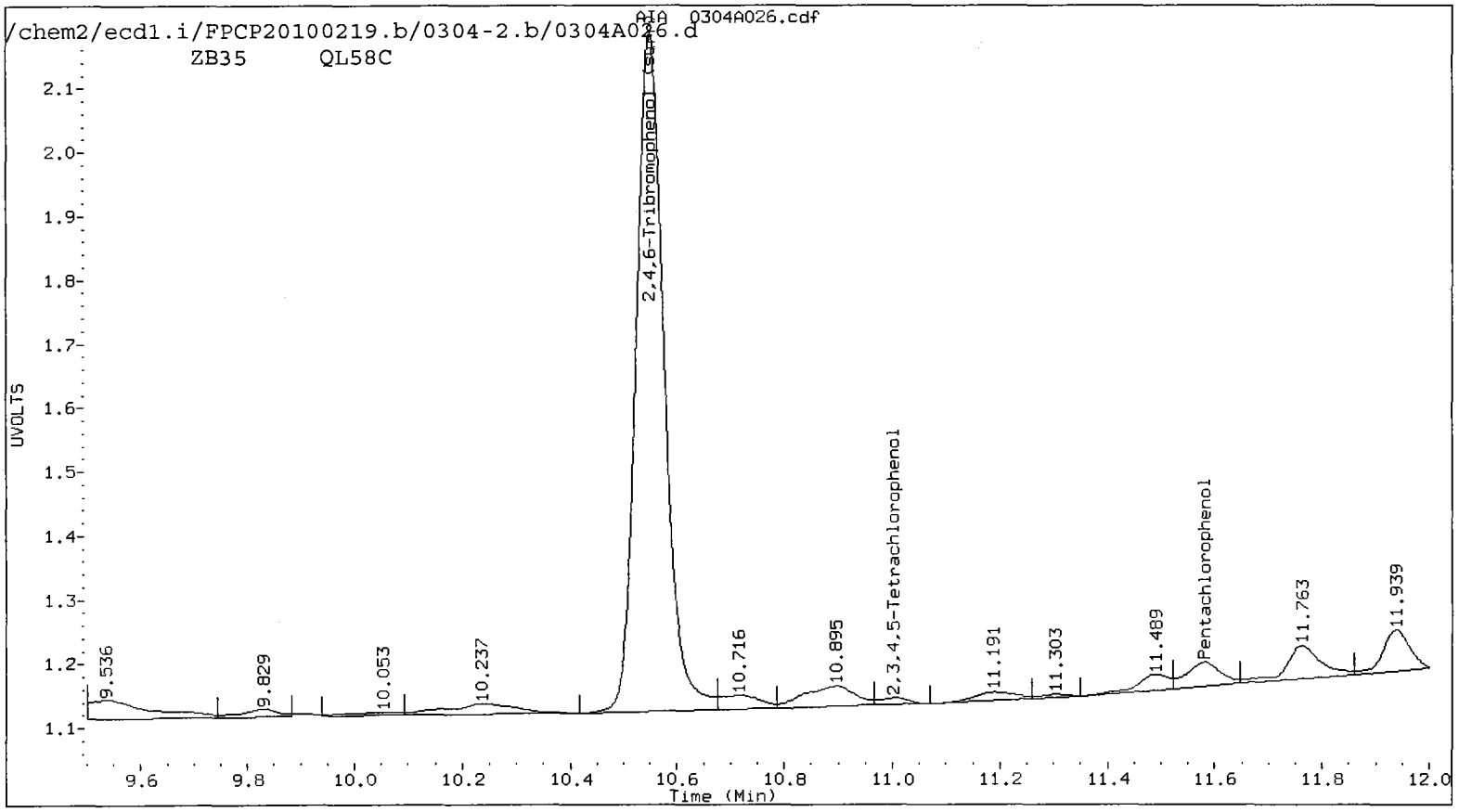
0304A026.cdf
ZB5 QL58C
2,4,6-Tribromophenol (surr
UVOLTS
9.625
9.784
10.175
10.372
10.677
11.425
11.985
Time (Min)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AIA 0304A026.cdf
ZB35 QL58C
2,4,6-Tribromophenol (surr
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
UVOLTS
9.536
9.829
10.053
10.237
10.716
10.895
11.191
11.303
11.489
11.763
11.939
Time (Min)

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Page 1 of 1

Sample ID: CB100022410Comp
SAMPLE

Lab Sample ID: QL58D
LIMS ID: 10-4799
Matrix: Water
Data Release Authorized:
Reported: 03/05/10

QC Report No: QL58-Floyd/Snider
Project: Lora Lake Apartments
POS-LLA
Date Sampled: 02/24/10
Date Received: 02/25/10

Date Extracted: 03/02/10
Date Analyzed: 03/05/10 00:46
Instrument/Analyst: ECD1/AAR

Sample Amount: 500 mL
Final Extract Volume: 50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
87-86-5	**Pentachlorophenol**	**0.25**	**0.45**

Reported in µg/L (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	54.0%

FORM I

AR 3/5/2010

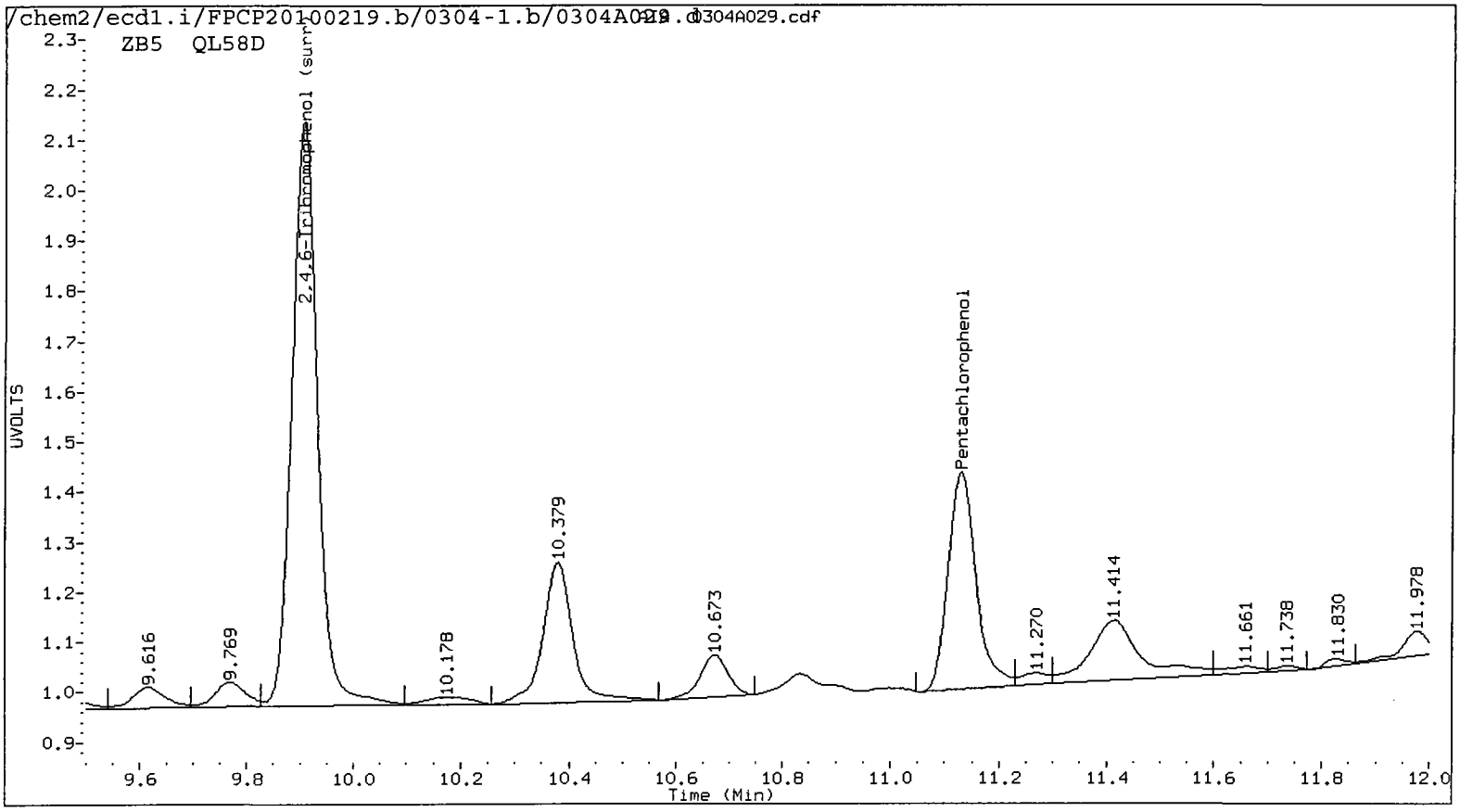
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

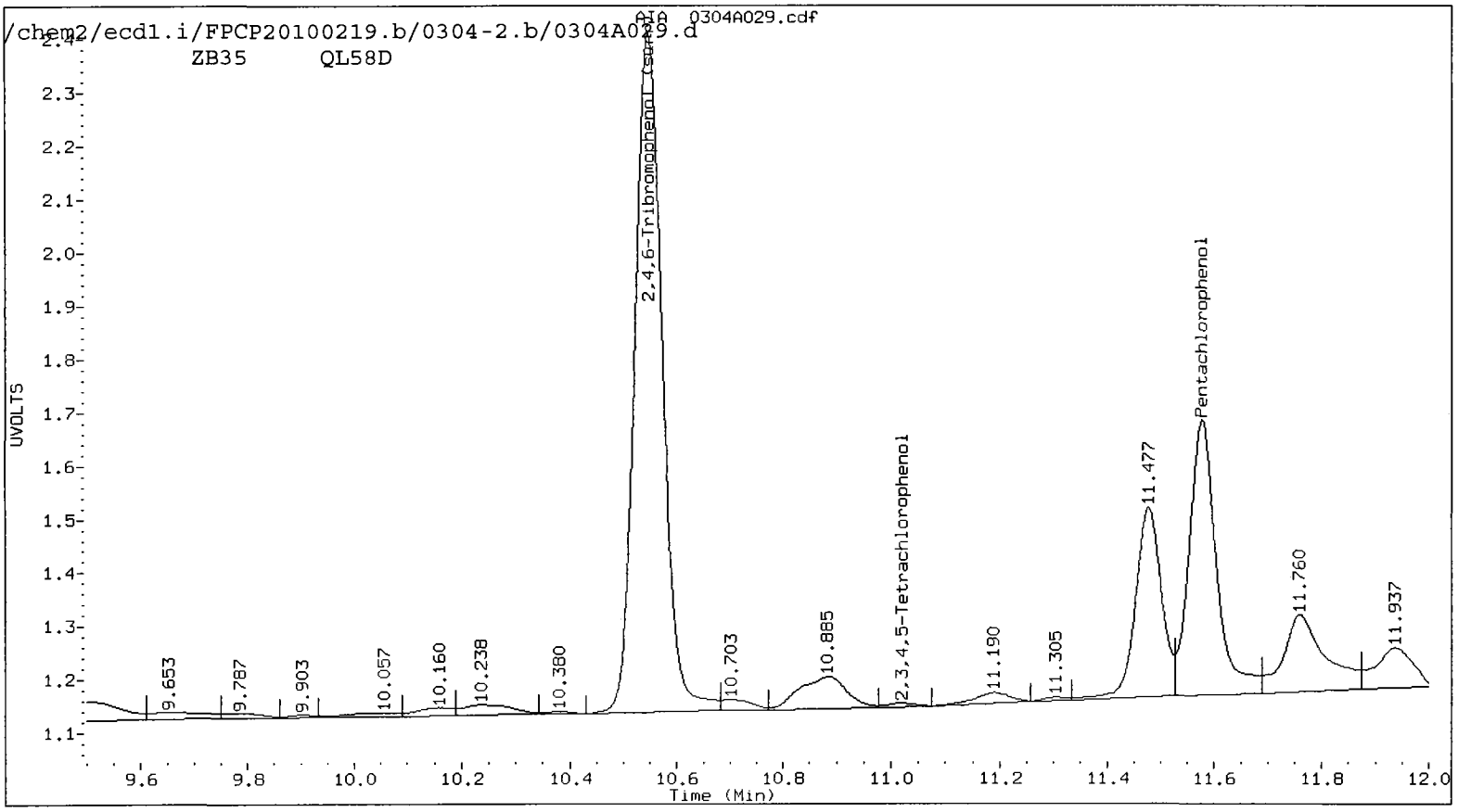
Data file 1: /chem2/ecd1.i/FPCP20100219.b/0304-1.b/0304A029.d ARI ID: QL58D
Data file 2: /chem2/ecd1.i/FPCP20100219.b/0304-2.b/0304A029.d Client ID: CB100022410Comp
Method: /chem2/ecd1.i/FPCP20100219.b/FPCP.m Injection Date: 05-MAR-2010 00:46
Compound Sublist: all Report Date: 03/05/2010 14:51
Instrument: ecd1.i Matrix: WATER
Operator: ar Dilution Factor: 1.000

ZB-5 Col			ZB35 Col			ZB-5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound
11.130	0.007	77114	11.577	0.001	92207	4.2116	4.4859	6.3	Pentachlorophenol
----			7.292	0.030	2731	0.0000	0.2401	---	2,4,6-Trichlorophenol
7.538	-0.002	11436	7.780	-0.007	1795	1.1413	0.1592	151.0*	2,3,6-Trichlorophenol
----			8.462	-0.057	1748	0.0000	0.2963	---	2,4,5-Trichlorophenol
8.643	-0.038	21062	----			2.9780	0.0000	---	2,3,4-Trichlorophenol
8.954	0.042	11368	9.203	0.019	2750	0.7406	0.1619	128.2*	2,3,5,6-Tetrachlorophenol
----			11.019	-0.004	1039	0.0000	0.0794	---	2,3,4,5-Tetrachlorophenol
6.846	0.029	5286	7.081	-0.010	2550	10.7382	4.5204	81.5*	2,4-Dichlorophenol
9.906	0.007	194710	10.547	0.000	226196	13.3	13.5	1.5	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
2,4,6-TBP (surr)	53.3	54.2


/chem2/ecd1.i/FPCP20100219.b/0304-1.b/0304A029.d
0304A029.cdf
ZB5 QL58D
UVOLTS
Time (Min)
9.616
9.769
2,4,6-Tribromophenol (surr
10.178
10.379
10.673
Pentachlorophenol
11.270
11.414
11.661
11.738
11.830
11.978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0304A029.cdf
ZB35 QL58D
UVOLTS
Time (Min)
9.653
9.787
9.903
10.057
10.160
10.238
10.380
2,4,6-Tribromophenol (surr
10.703
10.885
2,3,4,5-Tetrachlorophenol
11.190
11.305
11.477
Pentachlorophenol
11.760
11.937

PCP/Chlorophenols ANALYSIS
Standard Raw Data

prepared
for

Floyd/Snider

Project: Lora Lake Apartments, POS-LLA

ARI JOB NO: QL58

prepared
by

Analytical Resources, Inc.

6D
CHLOROPHENOL INITIAL CALIBRATION
RETENTION TIME WINDOWS

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

ARI Job No.: QL58 Project: LORA LAKE APARTMENTS

GC Column: ZB5 ID: 0.53 (mm) Instrument ID: ECD1

Calibration Date: 02/18/10

COMPOUND	RT OF STANDARDS LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	MEAN RT	RT WINDOW FROM	TO
Pentachlorophenol___	11.13	11.13	11.13	11.12	11.12	11.13	11.05	11.19
2,4,6-Trichloropheno	7.19	7.19	7.19	7.19	7.19	7.19	7.12	7.26
2,3,6-Trichloropheno	7.55	7.55	7.54	7.54	7.54	7.54	7.47	7.61
2,4,5-Trichloropheno	8.16	8.15	8.14	8.14	8.14	8.15	8.07	8.21
2,3,4-Trichloropheno	8.70	8.70	8.69	8.69	8.68	8.69	8.61	8.75
2,3,5,6-Tetrachlorop	8.92	8.92	8.92	8.91	8.91	8.92	8.84	8.98
2,3,4,5-Tetrachlorop	10.32	10.32	10.31	10.31	10.30	10.31	10.23	10.37
2,4-Dichlorophenol__	6.82	6.82	6.82	6.82	6.82	6.82	6.75	6.89
2,4,6-Tribromophenol	9.91	9.91	9.90	9.90	9.90	9.90	9.83	9.97

6D
CHLOROPHENOL INITIAL CALIBRATION
RETENTION TIME WINDOWS

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

ARI Job No.: QL58 Project: LORA LAKE APARTMENTS

GC Column: ZB35 ID: 0.53 (mm) Instrument ID: ECD1

Calibration Date: 02/18/10

	RT OF STANDARDS					MEAN	RT WINDOW	
COMPOUND	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	RT	FROM	TO
Pentachlorophenol___	11.58	11.58	11.57	11.57	11.57	11.57	11.51	11.65
2,4,6-Trichloropheno	7.26	7.26	7.26	7.26	7.26	7.26	7.19	7.33
2,3,6-Trichloropheno	7.79	7.79	7.79	7.79	7.78	7.79	7.72	7.86
2,4,5-Trichloropheno	8.52	8.52	8.52	8.51	8.51	8.52	8.45	8.59
2,3,4-Trichloropheno	9.28	9.28	9.28	9.27	9.27	9.28	9.21	9.35
2,3,5,6-Tetrachlorop	9.19	9.18	9.18	9.18	9.18	9.18	9.11	9.25
2,3,4,5-Tetrachlorop	11.03	11.02	11.02	11.02	11.02	11.02	10.95	11.09
2,4-Dichlorophenol__	7.09	7.09	7.09	7.09	7.09	7.09	7.02	7.16
2,4,6-Tribromophenol	10.55	10.55	10.54	10.54	10.54	10.54	10.48	10.62

6E
CHLOROPHENOL INITIAL CALIBRATION
CALIBRATION FACTORS

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

ARI Job No.: QL58 Project: LORA LAKE APARTMENTS

GC Column: ZB5 ID: 0.53 (mm) Instrument ID: ECD1

Calibration Date: 02/18/10

COMPOUND	CALIBRATION FACTORS LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	R^2/ %RSD	CT
Pentachlorophenol____	19260	20286	19708	18632	16832	15143	10.7	A
2,4,6-Trichlorophenol	12690	11388	9439	10360	8705	8048	17.2	A
2,3,6-Trichlorophenol	11610	10956	10515	10092	8822	8128	13.1	A
2,4,5-Trichlorophenol	5557	5419	5418	5382	4505	4088	12.0	A
2,3,4-Trichlorophenol	8452	8484	7742	6654	5844	5260	19.3	A
2,3,5,6-Tetrachloroph	16891	16608	16259	15694	13938	12707	10.8	A
2,3,4,5-Tetrachloroph	14069	13078	12346	11471	10474	9024	15.5	A
2,4-Dichlorophenol___	539	574	536	478	449	376	14.8	A
2,4,6-Tribromophenol	16092	15471	15178	14700	13698	12467	9.0	A
						AVE RSD	13.6	

CT stands for Curve Types:
- A Indicates an Average Response Factor Curve
- L Indicates a Linear Curve
- Q Indicates a Quadratic Curve

CALIBRATION FILES

LVL 1: /chem2/ecd1.i/FPCP20100219.b/ical-1.b/0218A012.d
LVL 2: /chem2/ecd1.i/FPCP20100219.b/ical-1.b/0218A013.d
LVL 3: /chem2/ecd1.i/FPCP20100219.b/ical-1.b/0218A014.d
LVL 4: /chem2/ecd1.i/FPCP20100219.b/ical-1.b/0218A011.d
LVL 5: /chem2/ecd1.i/FPCP20100219.b/ical-1.b/0218A015.d
LVL 6: /chem2/ecd1.i/FPCP20100219.b/ical-1.b/0218A016.d

6E
CHLOROPHENOL INITIAL CALIBRATION
CALIBRATION FACTORS

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

ARI Job No.: QL58 Project: LORA LAKE APARTMENTS

GC Column: ZB35 ID: 0.53 (mm) Instrument ID: ECD1

Calibration Date: 02/18/10

COMPOUND	CALIBRATION FACTORS LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	R^2/ %RSD	CT
Pentachlorophenol	21892	22397	21863	20727	19095	17355	9.6	A
2,4,6-Trichlorophenol	12480	12200	12371	11514	10380	9304	11.2	A
2,3,6-Trichlorophenol	12934	12277	11772	11120	10187	9386	11.7	A
2,4,5-Trichlorophenol	6873	6583	6297	5844	5218	4589	14.7	A
2,3,4-Trichlorophenol	8997	8826	8328	7674	6874	6144	14.5	A
2,3,5,6-Tetrachloroph	18467	18264	17819	17161	15802	14414	9.3	A
2,3,4,5-Tetrachloroph	13447	14149	13746	14433	11943	10771	10.9	A
2,4-Dichlorophenol	664	633	639	562	478	409	18.0	A
2,4,6-Tribromophenol	17723	17320	17250	16916	16059	14968	6.1	A
						AVE RSD	11.8	

CT stands for Curve Types:
- A Indicates an Average Response Factor Curve
- L Indicates a Linear Curve
- Q Indicates a Quadratic Curve

CALIBRATION FILES

LVL 1: /chem2/ecd1.i/FPCP20100219.b/ical-2.b/0218A012.d/0218A012.cdf
LVL 2: /chem2/ecd1.i/FPCP20100219.b/ical-2.b/0218A013.d/0218A013.cdf
LVL 3: /chem2/ecd1.i/FPCP20100219.b/ical-2.b/0218A014.d/0218A014.cdf
LVL 4: /chem2/ecd1.i/FPCP20100219.b/ical-2.b/0218A011.d/0218A011.cdf
LVL 5: /chem2/ecd1.i/FPCP20100219.b/ical-2.b/0218A015.d/0218A015.cdf
LVL 6: /chem2/ecd1.i/FPCP20100219.b/ical-2.b/0218A016.d/0218A016.cdf

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 18-FEB-2010 20:17
End Cal Date : 18-FEB-2010 21:56
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /chem2/ecd1.i/FPCP20100219.b/FPCPB.m
Cal Date : 19-Feb-2010 09:37 jrains
Curve Type : Average

Calibration File Names:
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Level 2: /chem2/ecd1.i/FPCP20100219.b/ical-2.b/0218A013.d/0218A013.cdf
Level 3: /chem2/ecd1.i/FPCP20100219.b/ical-2.b/0218A014.d/0218A014.cdf
Level 4: /chem2/ecd1.i/FPCP20100219.b/ical-2.b/0218A011.d/0218A011.cdf
Level 5: /chem2/ecd1.i/FPCP20100219.b/ical-2.b/0218A015.d/0218A015.cdf
Level 6: /chem2/ecd1.i/FPCP20100219.b/ical-2.b/0218A016.d/0218A016.cdf

	Compound	2.500 Level 1	6.250 Level 2	12.500 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	RRF	% RSD
1	2,4-Dichlorophenol	664	633	639	562	478	409	564	18.037
2	2,4,6-Trichlorophenol	12480	12200	12371	11514	10380	9304	11375	11.253
3	2,3,6-Trichlorophenol	12934	12277	11772	11120	10187	9386	11280	11.747
4	2,4,5-Trichlorophenol	6873	6583	6297	5844	5218	4589	5901	14.692
5	2,3,5,6-Tetrachlorophenol	18467	18264	17819	17161	15802	14414	16988	9.334
6	2,3,4-Trichlorophenol	8997	8826	8328	7674	6874	6144	7807	14.469
8	2,3,4,5-Tetrachlorophenol	13447	14149	13746	14433	11943	10771	13081	10.905
9	Pentachlorophenol	21892	22397	21863	20727	19095	17355	20555	9.557
$ 7	2,4,6-Tribromophenol (surr)	17723	17320	17250	16917	16059	14968	16706	6.098

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 18-FEB-2010 20:17
End Cal Date : 18-FEB-2010 21:56
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /chem2/ecd1.i/FPCP20100219.b/FPCPB.m
Cal Date : 19-Feb-2010 09:37 jrains
Curve Type : Average

Average %RSD Results.

Calculated Average %RSD = 11.78791
Maximun Average %RSD = 20.00000
* Passed Average %RSD Test.

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 18-FEB-2010 20:17
End Cal Date : 18-FEB-2010 21:56
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /chem2/ecd1.i/FPCP20100219.b/FPCP.m
Cal Date : 19-Feb-2010 09:46 jrains
Curve Type : Average

Calibration File Names:
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Level 2: /chem2/ecd1.i/FPCP20100219.b/ical-1.b/0218A013.d
Level 3: /chem2/ecd1.i/FPCP20100219.b/ical-1.b/0218A014.d
Level 4: /chem2/ecd1.i/FPCP20100219.b/ical-1.b/0218A011.d
Level 5: /chem2/ecd1.i/FPCP20100219.b/ical-1.b/0218A015.d
Level 6: /chem2/ecd1.i/FPCP20100219.b/ical-1.b/0218A016.d

	Compound	2.500 Level 1	6.250 Level 2	12.500 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	RRF	% RSD
1	2,4-Dichlorophenol	539	575	536	479	449	376	492	14.760
2	2,4,6-Trichlorophenol	12690	11388	9439	10360	8705	8048	10105	17.155
3	2,3,6-Trichlorophenol	11610	10956	10515	10092	8822	8128	10020	13.139
4	2,4,5-Trichlorophenol	5557	5419	5418	5382	4505	4088	5061	12.056
5	2,3,4-Trichlorophenol	8452	8484	7742	6654	5844	5260	7073	19.296
6	2,3,5,6-Tetrachlorophenol	16891	16608	16259	15694	13938	12707	15349	10.856
8	2,3,4,5-Tetrachlorophenol	14069	13078	12346	11471	10474	9024	11744	15.530
9	Pentachlorophenol	19260	20286	19708	18632	16832	15143	18310	10.669
$ 7	2,4,6-Tribromophenol (surr)	16092	15471	15178	14700	13698	12467	14601	9.030

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 18-FEB-2010 20:17
End Cal Date : 18-FEB-2010 21:56
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /chem2/ecd1.i/FPCP20100219.b/FPCP.m
Cal Date : 19-Feb-2010 09:46 jrains
Curve Type : Average

Average %RSD Results.

Calculated Average %RSD = 13.46642
Maximun Average %RSD = 20.00000
* Passed Average %RSD Test.

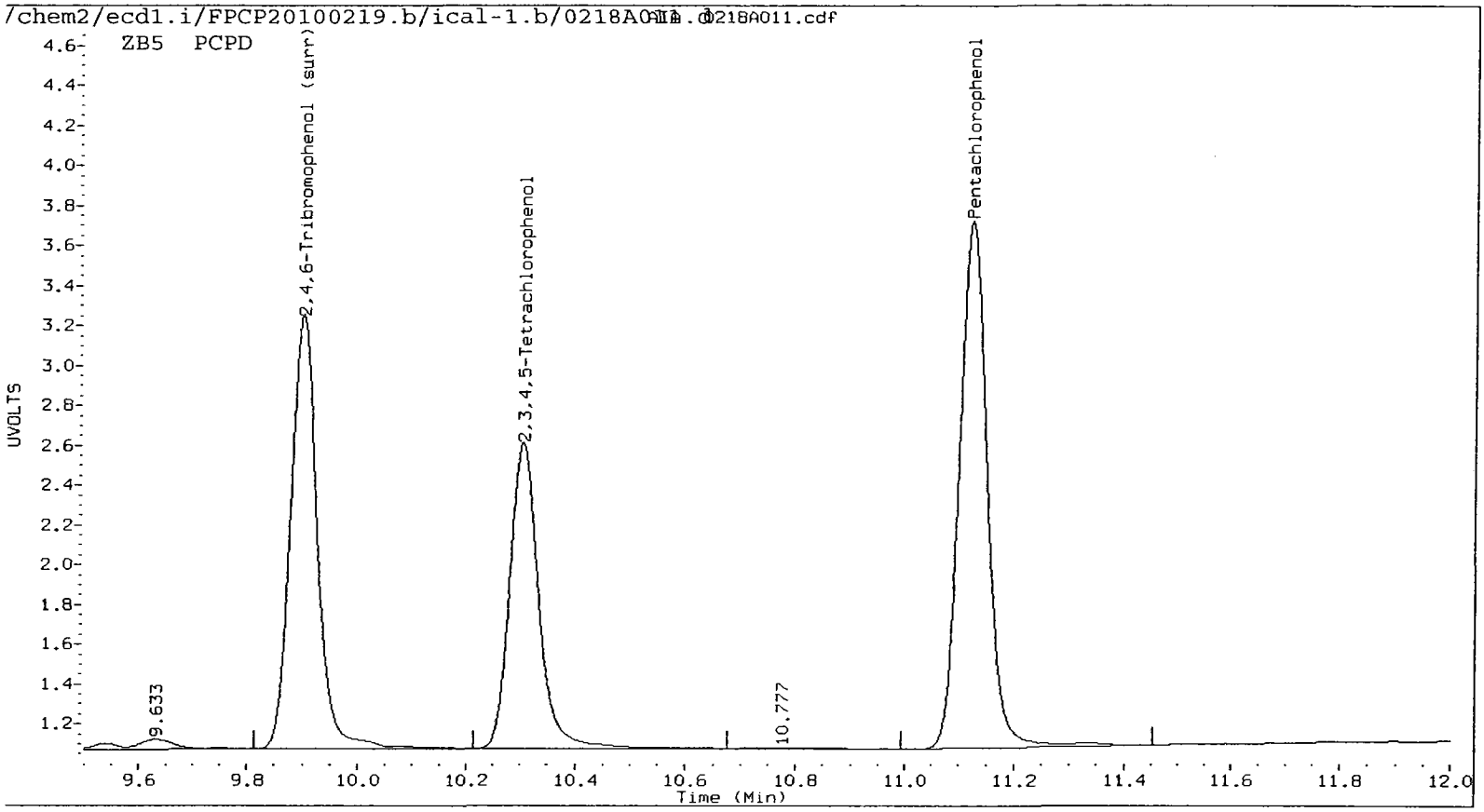
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

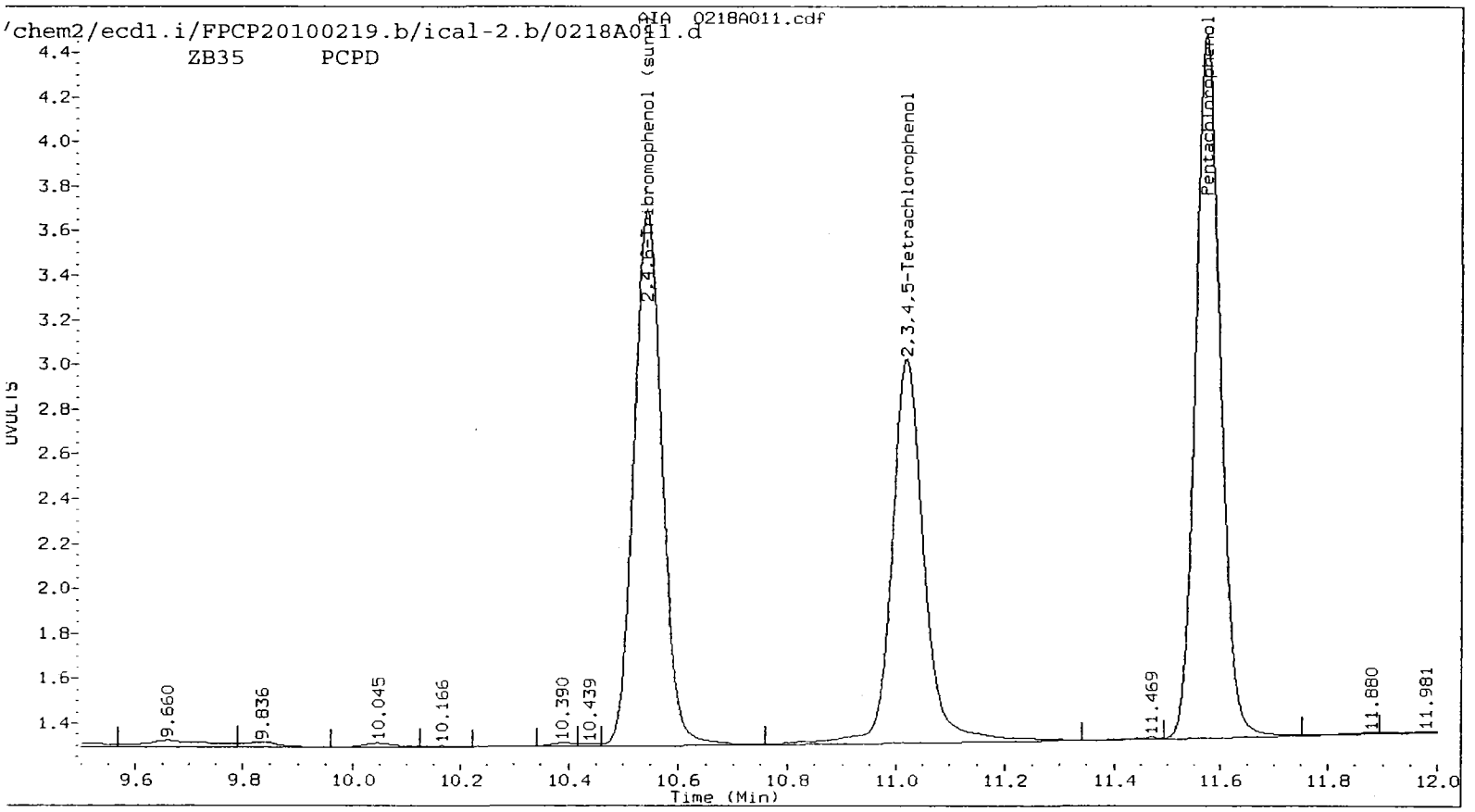
Data file 1: /chem2/ecd1.i/FPCP20100219.b/ical-1.b/0218A011.d ARI ID: PCPD
Data file 2: /chem2/ecd1.i/FPCP20100219.b/ical-2.b/0218A011.d Client ID:
Method: /chem2/ecd1.i/FPCP20100219.b/FPCP.m Injection Date: 18-FEB-2010 20:17
Compound Sublist: all Report Date: 02/19/2010 10:00
Instrument: ecd1.i Matrix: NONE
Operator: ar Dilution Factor: 1.000

ZB-5 Col			ZB35 Col			ZB-5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound
11.125	0.002	465799	11.573	-0.003	518187	25.0000	25.2100	0.8	Pentachlorophenol
7.190	0.000	258988	7.261	-0.001	287844	25.0000	23.2129	7.4	2,4,6-Trichlorophenol
7.544	0.004	252304	7.785	-0.002	278010	25.0000	24.1939	3.3	2,3,6-Trichlorophenol
8.140	0.003	134543	8.513	-0.007	146106	25.0000	24.4528	2.2	2,4,5-Trichlorophenol
8.687	0.006	166342	9.273	-0.007	191858	25.0000	24.5746	1.7	2,3,4-Trichlorophenol
8.914	0.002	392346	9.180	-0.004	429030	25.0000	25.2550	1.0	2,3,5,6-Tetrachlorophenol
10.306	0.004	286776	11.019	-0.004	360825	25.0000	27.5833	9.8	2,3,4,5-Tetrachlorophenol
6.820	0.003	119627	7.088	-0.002	140384	250.0000	207.3163	18.7	2,4-Dichlorophenol
9.902	0.003	367511	10.543	-0.003	422914	25.0	25.3	1.3	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
2,4,6-TBP (surr)	100.0	101.3


/chem2/ecd1.i/FPCP20100219.b/ical-1.b/0218A011.d
ZB5 PCPD
2,4,6-Tribromophenol (surr)
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
9.633
10.777
UVOLTS
Time (Min)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ZB35 PCPD
2,4,6-Tribromophenol (surr)
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
9.660
9.836
10.045
10.166
10.390
10.439
11.469
11.880
11.981
UVOLTS
Time (Min)

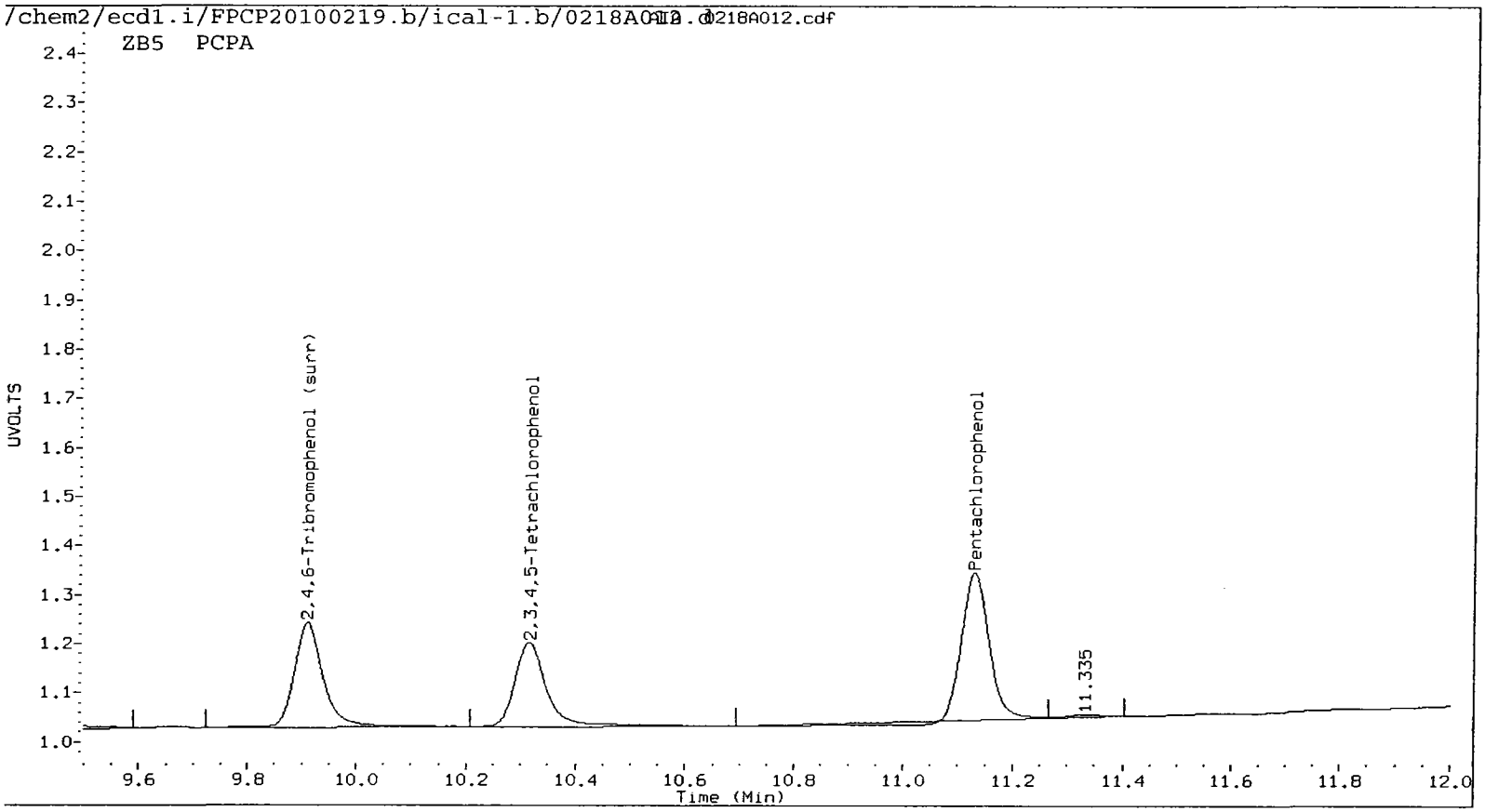
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

Data file 1: /chem2/ecd1.i/FPCP20100219.b/ical-1.b/0218A012.d ARI ID: PCPA
Data file 2: /chem2/ecd1.i/FPCP20100219.b/ical-2.b/0218A012.d Client ID:
Method: /chem2/ecd1.i/FPCP20100219.b/FPCP.m Injection Date: 18-FEB-2010 20:37
Compound Sublist: all Report Date: 02/19/2010 10:00
Instrument: ecd1.i Matrix: NONE
Operator: ar Dilution Factor: 1.000

ZB-5 Col			ZB35 Col			ZB-5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound
11.131	0.008	48151	11.577	0.001	54730	2.5415	2.6626	4.7	Pentachlorophenol
7.193	0.003	31724	7.262	0.000	31199	2.7527	2.6369	4.3	2,4,6-Trichlorophenol
7.546	0.006	29024	7.788	0.001	32334	2.6748	2.8423	6.1	2,3,6-Trichlorophenol
8.157	0.019	13893	8.523	0.003	17182	2.5401	2.8843	12.7	2,4,5-Trichlorophenol
8.700	0.019	21131	9.283	0.003	22492	2.7977	2.8810	2.9	2,3,4-Trichlorophenol
8.923	0.011	42228	9.185	0.002	46168	2.5919	2.7177	4.7	2,3,5,6-Tetrachlorophenol
10.316	0.014	35172	11.025	0.002	33617	2.7543	2.5699	6.9	2,3,4,5-Tetrachlorophenol
6.823	0.006	13475	7.092	0.001	16607	28.1209	27.1340	3.6	2,4-Dichlorophenol
9.911	0.012	40229	10.548	0.002	44308	2.6	2.7	1.5	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
2,4,6-TBP (surr)	10.5	10.6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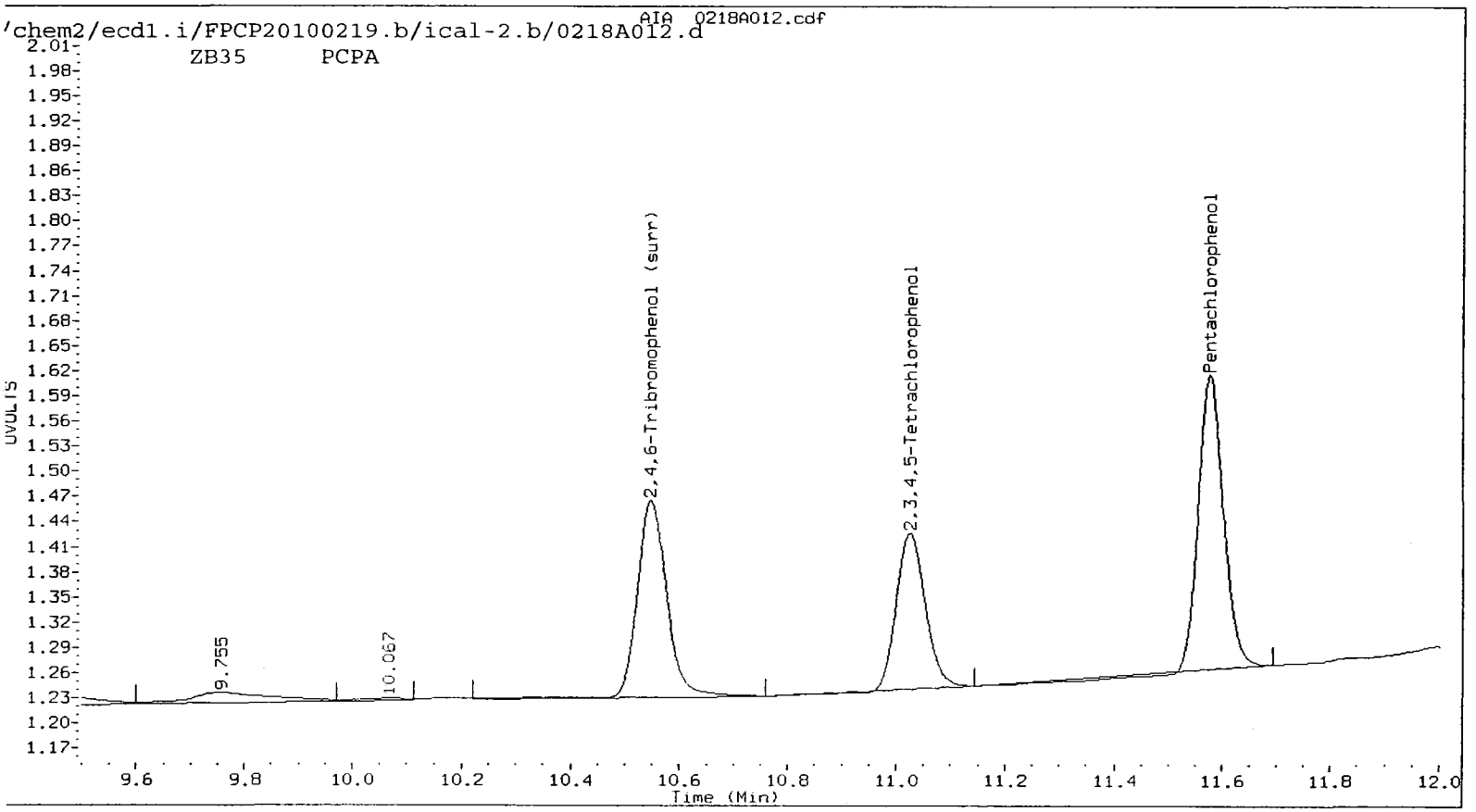
AIA 0218A012.cdf
ZB5 PCPA
UVOLTS
2,4,6-Tribromophenol (surr)
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
11.335
Time (Min)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AIA 0218A012.cdf
ZB35 PCPA
UVOLTS
9.755
10.067
2,4,6-Tribromophenol (surr)
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
Time (Min)

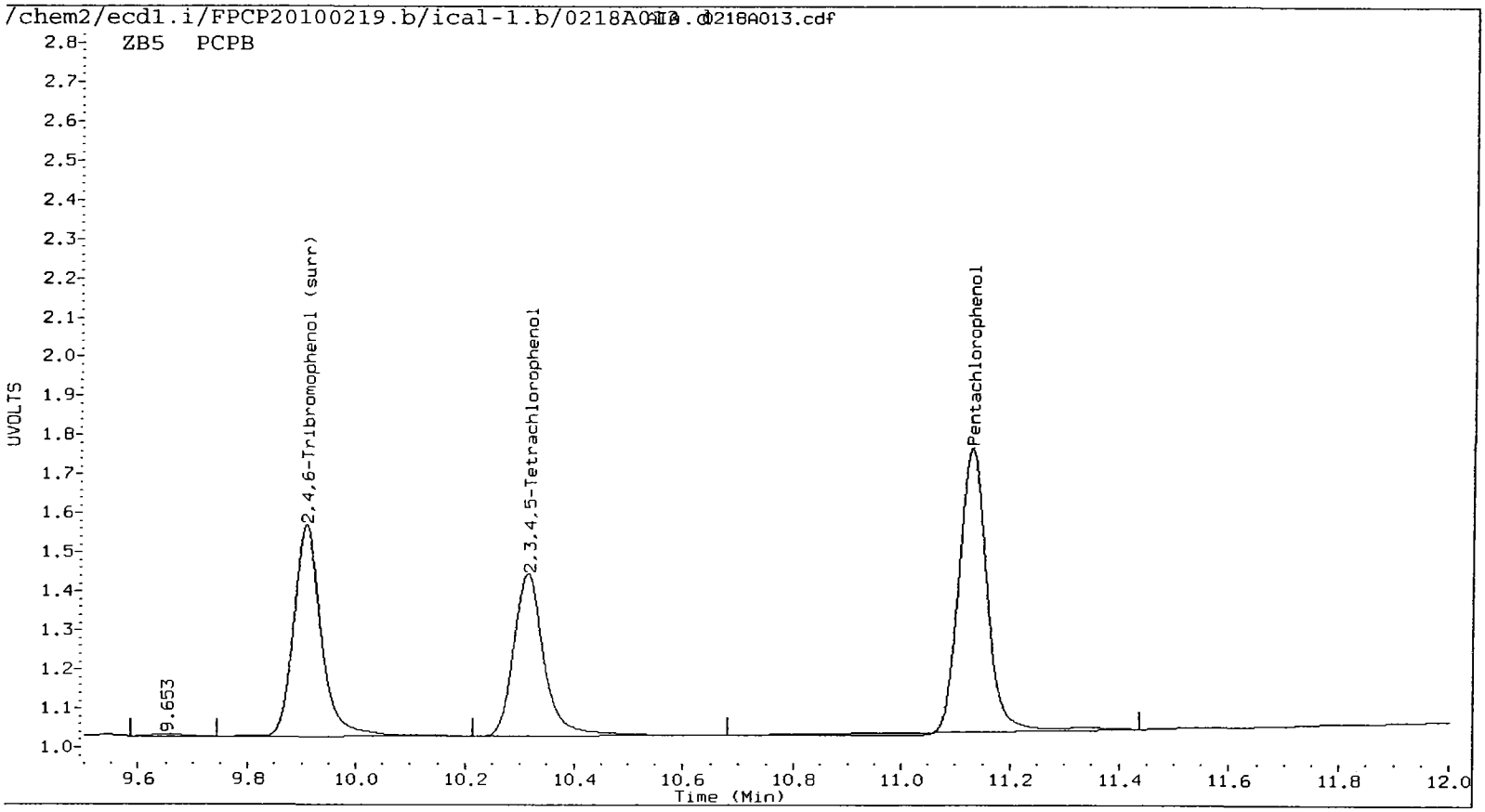
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

Data file 1: /chem2/ecd1.i/FPCP20100219.b/ical-1.b/0218A013.d ARI ID: PCPB
Data file 2: /chem2/ecd1.i/FPCP20100219.b/ical-2.b/0218A013.d Client ID:
Method: /chem2/ecd1.i/FPCP20100219.b/FPCP.m Injection Date: 18-FEB-2010 20:57
Compound Sublist: all Report Date: 02/19/2010 10:00
Instrument: ecd1.i Matrix: NONE
Operator: ar Dilution Factor: 1.000

ZB-5 Col			ZB35 Col			ZB-5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound
11.130	0.007	126786	11.576	0.000	139982	6.5378	6.8102	4.1	Pentachlorophenol
7.193	0.003	71176	7.262	0.000	76250	6.2005	6.7035	7.8	2,4,6-Trichlorophenol
7.547	0.007	68473	7.787	0.000	76734	6.2901	6.8029	7.8	2,3,6-Trichlorophenol
8.153	0.016	33871	8.520	0.000	41146	6.2117	6.9730	11.5	2,4,5-Trichlorophenol
8.697	0.016	53024	9.280	0.000	55164	6.7432	7.0658	4.7	2,3,4-Trichlorophenol
8.922	0.010	103801	9.184	0.000	114152	6.3302	6.7196	6.0	2,3,5,6-Tetrachlorophenol
10.315	0.013	81738	11.023	0.000	88429	6.3497	6.7600	6.3	2,3,4,5-Tetrachlorophenol
6.823	0.006	35911	7.091	0.000	39550	73.9256	70.1023	5.3	2,4-Dichlorophenol
9.909	0.010	96694	10.546	0.000	108248	6.3	6.5	3.3	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
2,4,6-TBP (surr)	25.1	25.9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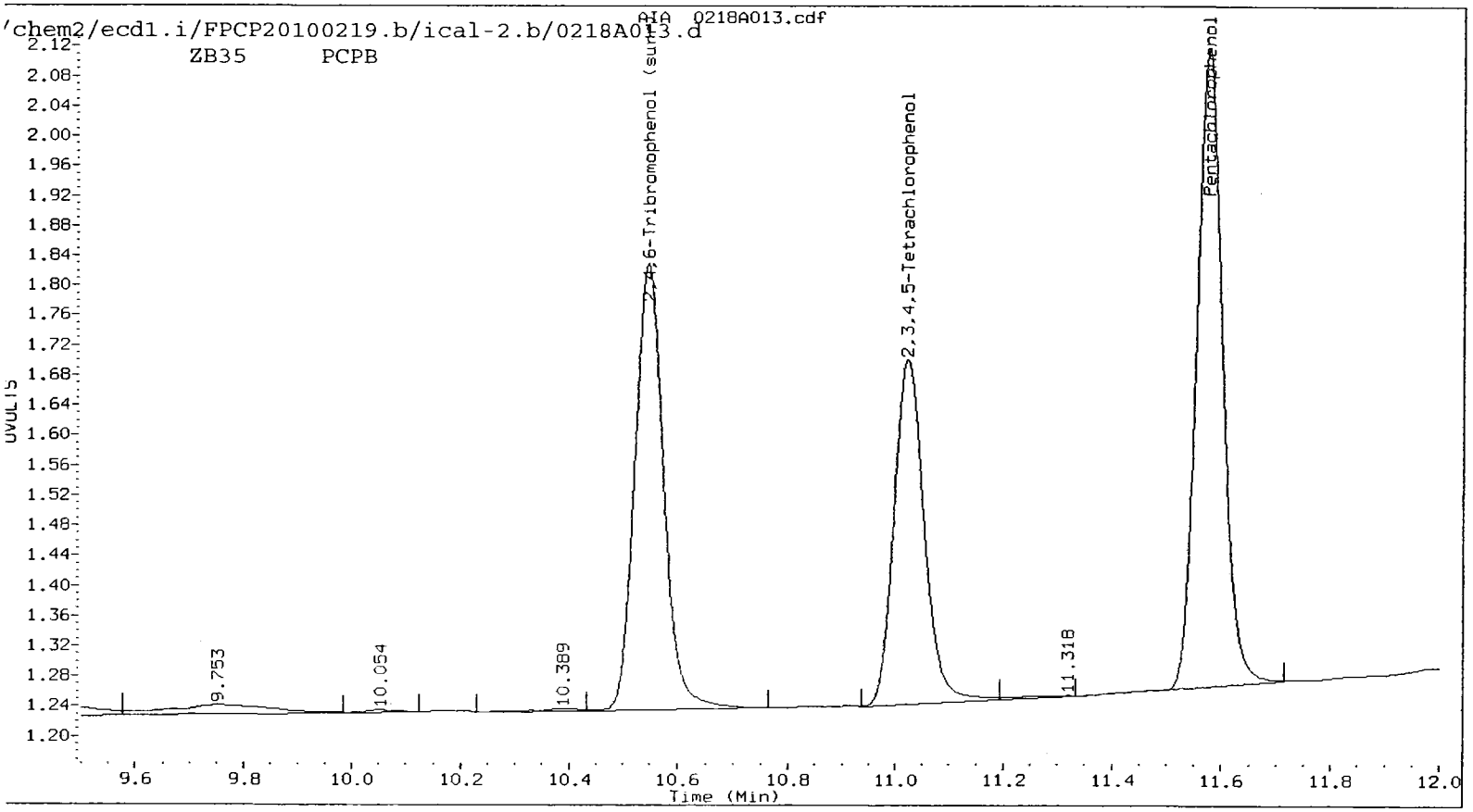
AIA 0218A013.cdf
ZB5 PCPB
UVOLTS
2,4,6-Tribromophenol (surr)
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
9.653
Time (Min)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AIA 0218A013.cdf
ZB35 PCPB
UVOLTS
2,4,6-Tribromophenol (surr)
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
9.753
10.054
10.389
11.318
Time (Min)

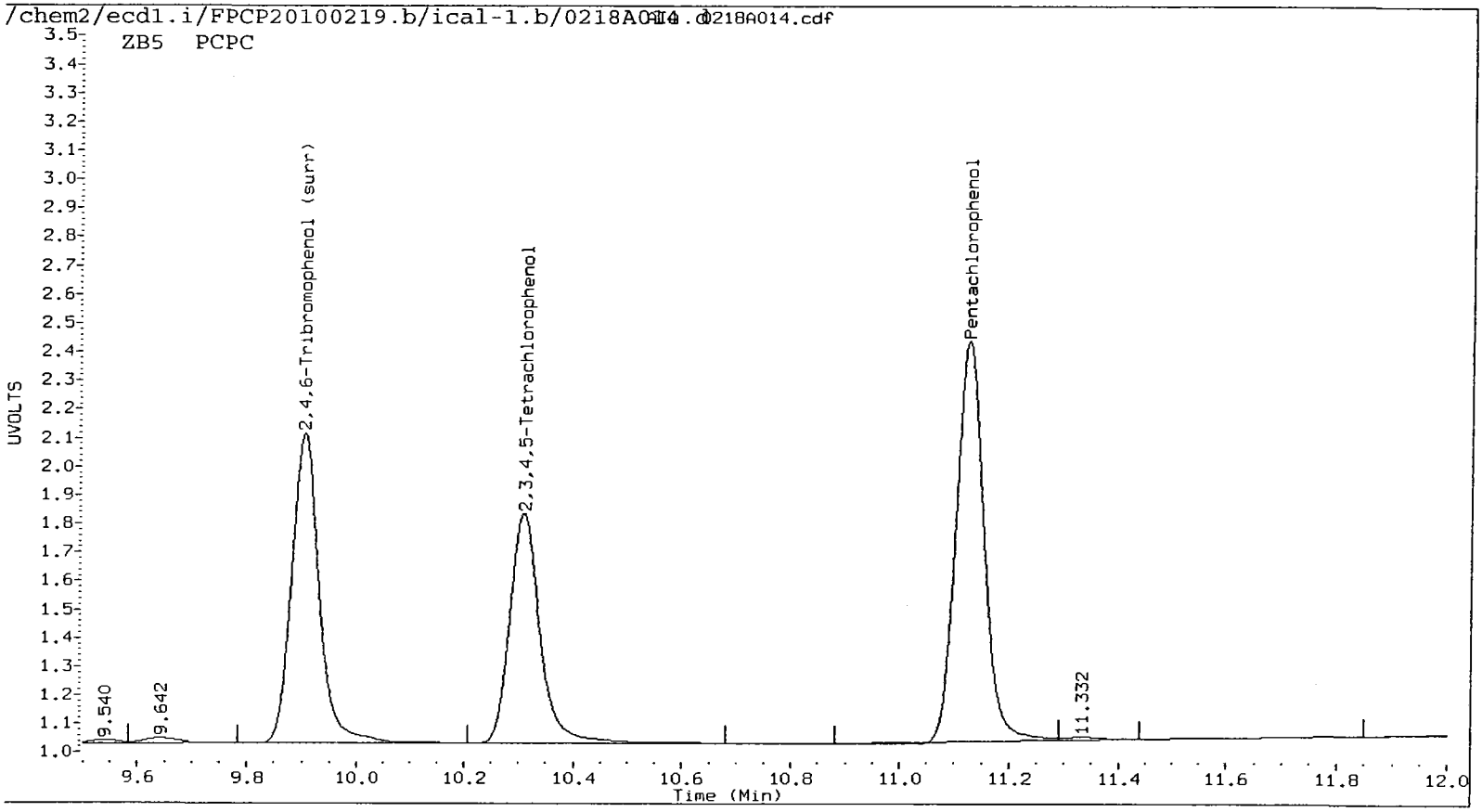
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

Data file 1: /chem2/ecd1.i/FPCP20100219.b/ical-1.b/0218A014.d ARI ID: PCPC
Data file 2: /chem2/ecd1.i/FPCP20100219.b/ical-2.b/0218A014.d Client ID:
Method: /chem2/ecd1.i/FPCP20100219.b/FPCP.m Injection Date: 18-FEB-2010 21:17
Compound Sublist: all Report Date: 02/19/2010 10:00
Instrument: ecd1.i Matrix: NONE
Operator: ar Dilution Factor: 1.000

ZB-5 Col			ZB35 Col			ZB-5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound
11.126	0.003	246351	11.574	-0.002	273284	12.6518	13.2954	5.0	Pentachlorophenol
7.190	0.000	117988	7.262	0.000	154642	10.7564	13.3368	21.4	2,4,6-Trichlorophenol
7.544	0.004	131437	7.786	-0.001	147154	12.1779	13.0207	6.7	2,3,6-Trichlorophenol
8.143	0.006	67722	8.517	-0.003	78715	12.4397	13.3353	6.9	2,4,5-Trichlorophenol
8.690	0.009	96775	9.277	-0.004	104097	12.3548	13.3336	7.6	2,3,4-Trichlorophenol
8.916	0.004	203238	9.182	-0.002	222741	12.4205	13.1117	5.4	2,3,5,6-Tetrachlorophenol
10.309	0.006	154324	11.021	-0.002	171820	12.1124	13.1348	8.1	2,3,4,5-Tetrachlorophenol
6.820	0.003	67050	7.090	-0.001	79892	135.1393	135.7267	0.4	2,4-Dichlorophenol
9.904	0.005	189722	10.544	-0.002	215625	12.4	12.9	4.4	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
2,4,6-TBP (surr)	49.4	51.6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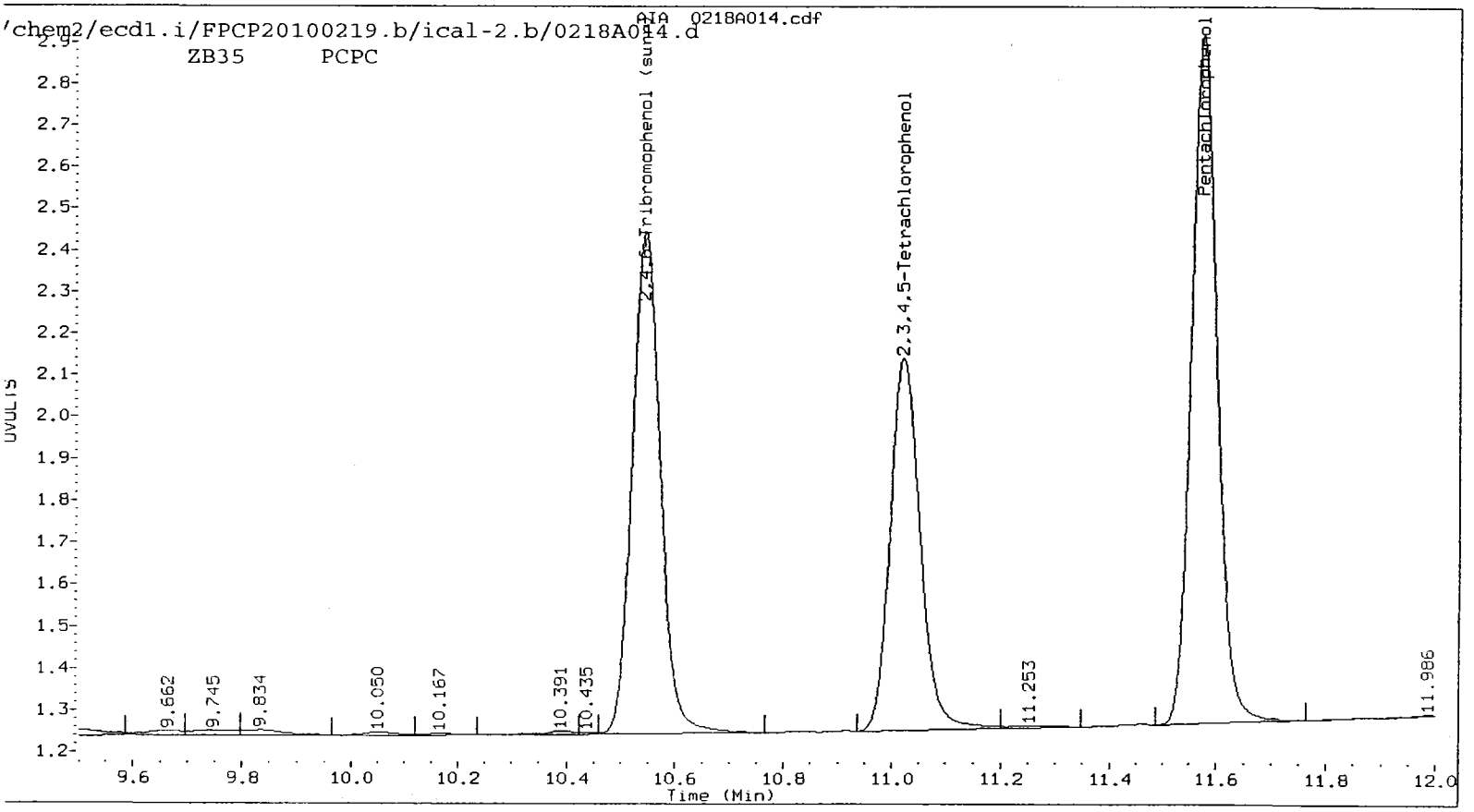
ZB5 PCPC
2,4,6-Tribromophenol (surr)
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
9.540
9.642
11.332
UVOLTS
Time (Min)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ZB35 PCPC
2,3,4,5-Tetrachlorophenol
9.662
9.745
9.834
10.050
10.167
10.391
10.435
11.253
11.986
UVOLTS
Time (Min)

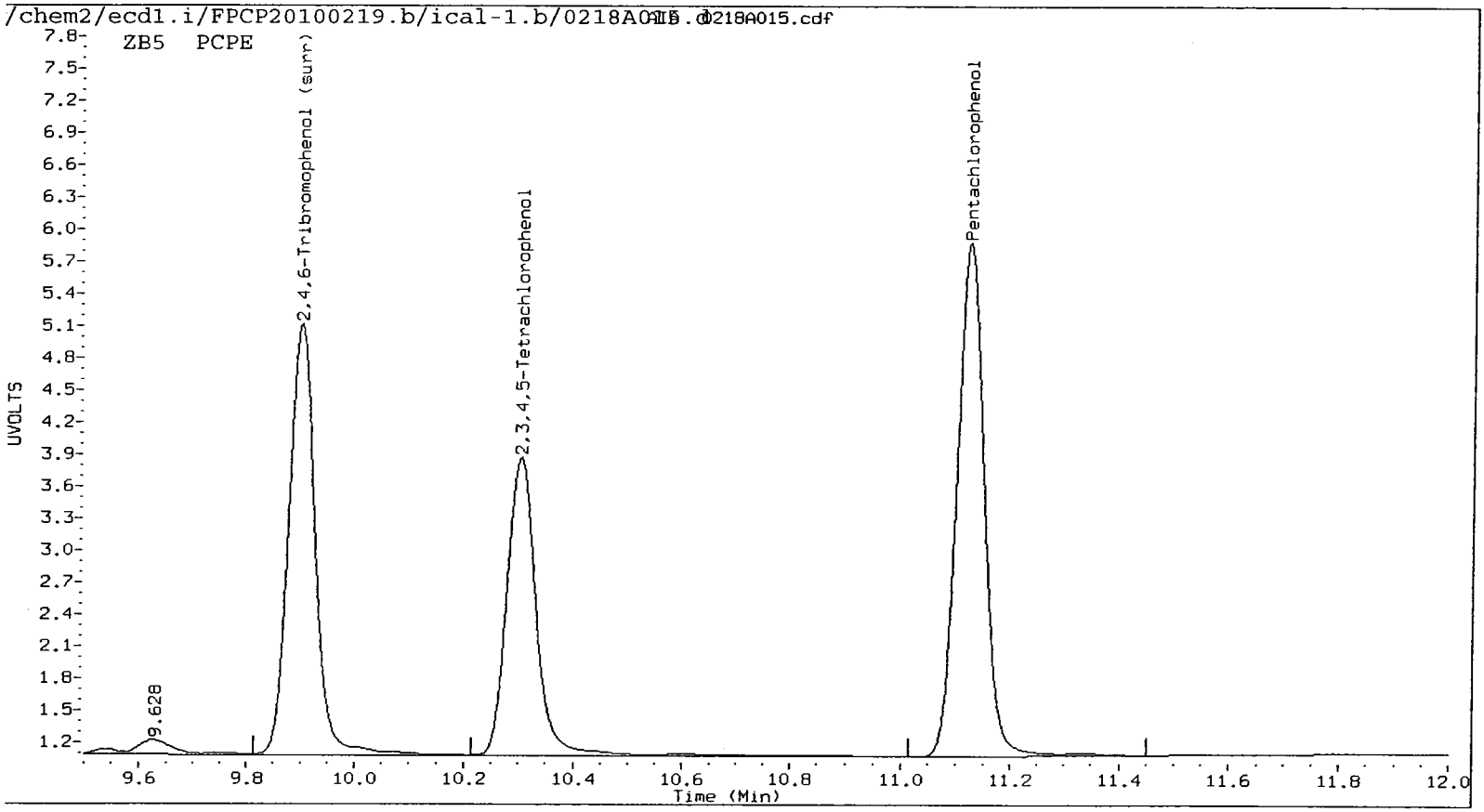
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

Data file 1: /chem2/ecd1.i/FPCP20100219.b/ical-1.b/0218A015.d ARI ID: PCPE
Data file 2: /chem2/ecd1.i/FPCP20100219.b/ical-2.b/0218A015.d Client ID:
Method: /chem2/ecd1.i/FPCP20100219.b/FPCP.m Injection Date: 18-FEB-2010 21:37
Compound Sublist: all Report Date: 02/19/2010 10:00
Instrument: ecd1.i Matrix: NONE
Operator: ar Dilution Factor: 1.000

ZB-5 Col			ZB35 Col			ZB-5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound
11.124	0.001	841607	11.573	-0.003	954743	44.4268	46.4485	4.4	Pentachlorophenol
7.190	0.000	435261	7.260	-0.002	518978	41.3891	44.9202	8.2	2,4,6-Trichlorophenol
7.544	0.004	441107	7.785	-0.002	509370	42.4186	45.1632	6.3	2,3,6-Trichlorophenol
8.140	0.003	225240	8.511	-0.009	260911	42.8525	44.2164	3.1	2,4,5-Trichlorophenol
8.684	0.003	292192	9.271	-0.009	343721	39.2987	44.0264	11.3	2,3,4-Trichlorophenol
8.913	0.001	696892	9.179	-0.005	790093	43.8904	46.5091	5.8	2,3,5,6-Tetrachlorophenol
10.304	0.002	523702	11.017	-0.006	597151	42.6204	45.6492	6.9	2,3,4,5-Tetrachlorophenol
6.821	0.004	224635	7.088	-0.003	239032	486.4561	408.8435	17.3	2,4-Dichlorophenol
9.901	0.002	684881	10.541	-0.005	802969	45.6	48.1	5.3	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
2,4,6-TBP (surr)	182.3	192.3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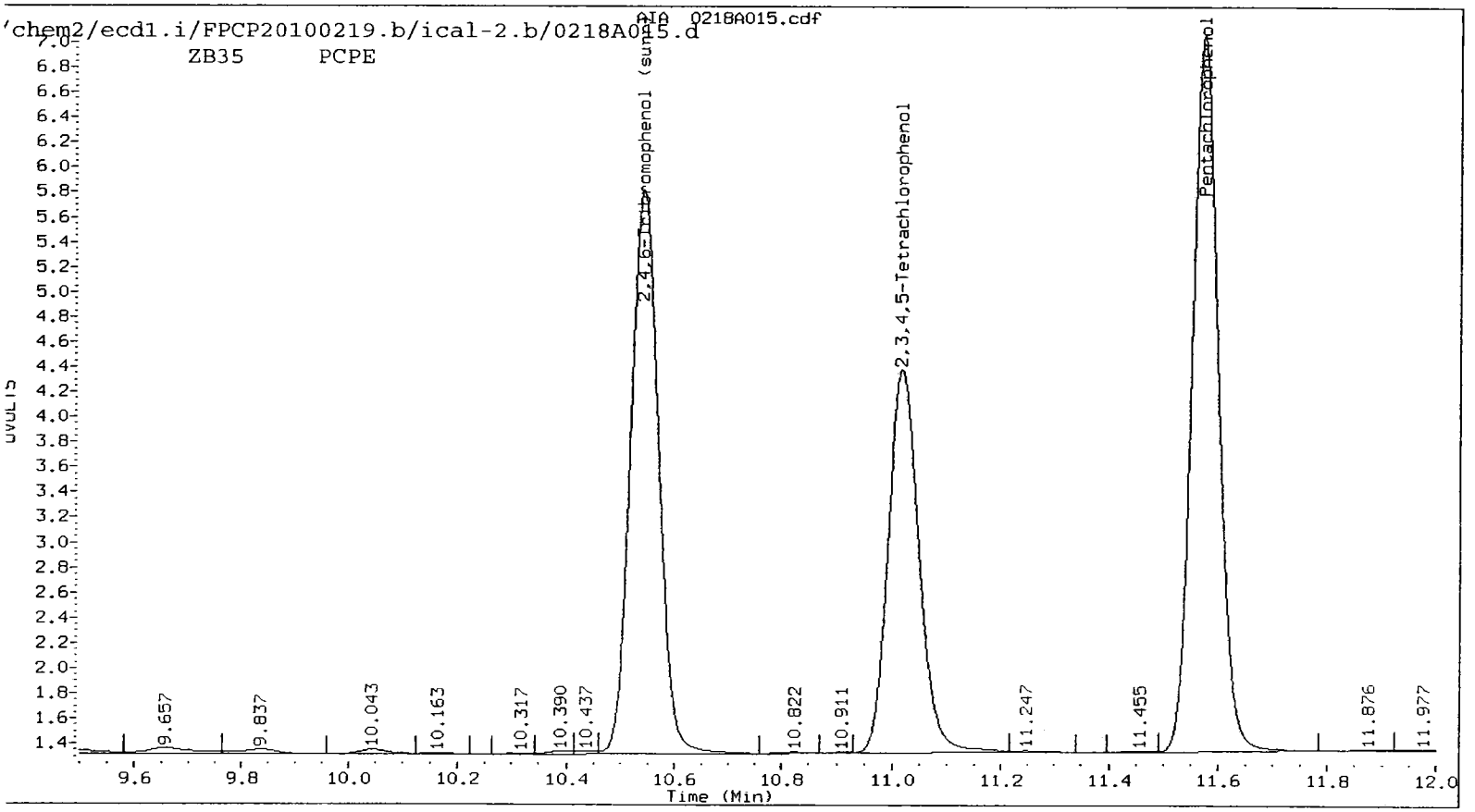
0218A015.cdf
ZB5 PCPE
2,4,6-Tribromophenol (surr)
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
9.628
UVOLTS
Time (Min)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0218A015.cdf
ZB35 PCPE
2,4,6-Tribromophenol (surr)
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
9.657
9.837
10.043
10.163
10.317
10.390
10.437
10.822
10.911
11.247
11.455
11.876
11.977
UVOLTS
Time (Min)

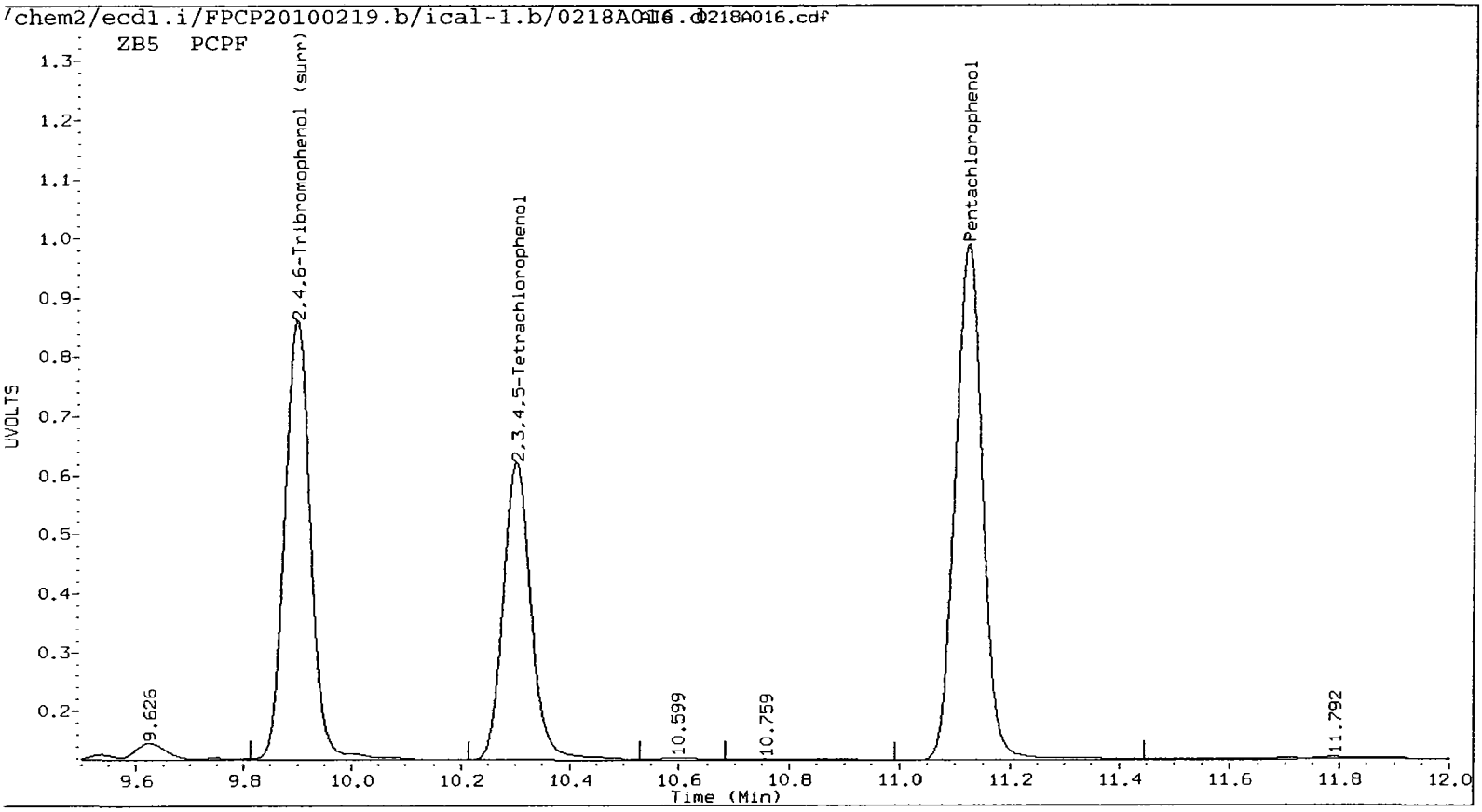
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

Data file 1: /chem2/ecd1.i/FPCP20100219.b/ical-1.b/0218A016.d ARI ID: PCPF
Data file 2: /chem2/ecd1.i/FPCP20100219.b/ical-2.b/0218A016.d Client ID:
Method: /chem2/ecd1.i/FPCP20100219.b/FPCP.m Injection Date: 18-FEB-2010 21:56
Compound Sublist: all Report Date: 02/19/2010 10:00
Instrument: ecd1.i Matrix: NONE
Operator: ar Dilution Factor: 1.000

ZB-5 Col			ZB35 Col			ZB-5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound
11.123	0.000	1514288	11.572	-0.004	1735502	82.7019	84.4327	2.1	Pentachlorophenol
7.190	0.000	804812	7.261	-0.001	930429	79.6454	80.6929	1.3	2,4,6-Trichlorophenol
7.540	0.000	812798	7.785	-0.002	938616	81.1142	83.2139	2.6	2,3,6-Trichlorophenol
8.137	0.000	408754	8.510	-0.009	458891	80.7591	77.7679	3.8	2,4,5-Trichlorophenol
8.681	0.000	526042	9.271	-0.010	614354	74.3764	78.6910	5.6	2,3,4-Trichlorophenol
8.912	0.000	1270676	9.179	-0.005	1441375	82.7830	84.8470	2.5	2,3,5,6-Tetrachloropheno
10.302	0.000	902416	11.016	-0.007	1077091	76.8427	82.3380	6.9	2,3,4,5-Tetrachlorophenol
6.817	0.000	376259	7.087	-0.003	409238	938.2954	703.1714	28.6	2,4-Dichlorophenol
9.899	0.000	1246694	10.541	-0.005	1496833	85.4	89.6	4.8	2,4,6-Tribromophenol (sur

PERCENT RECOVERY

COMPOUND	Col1	Col2
2,4,6-TBP (surr)	341.5	358.4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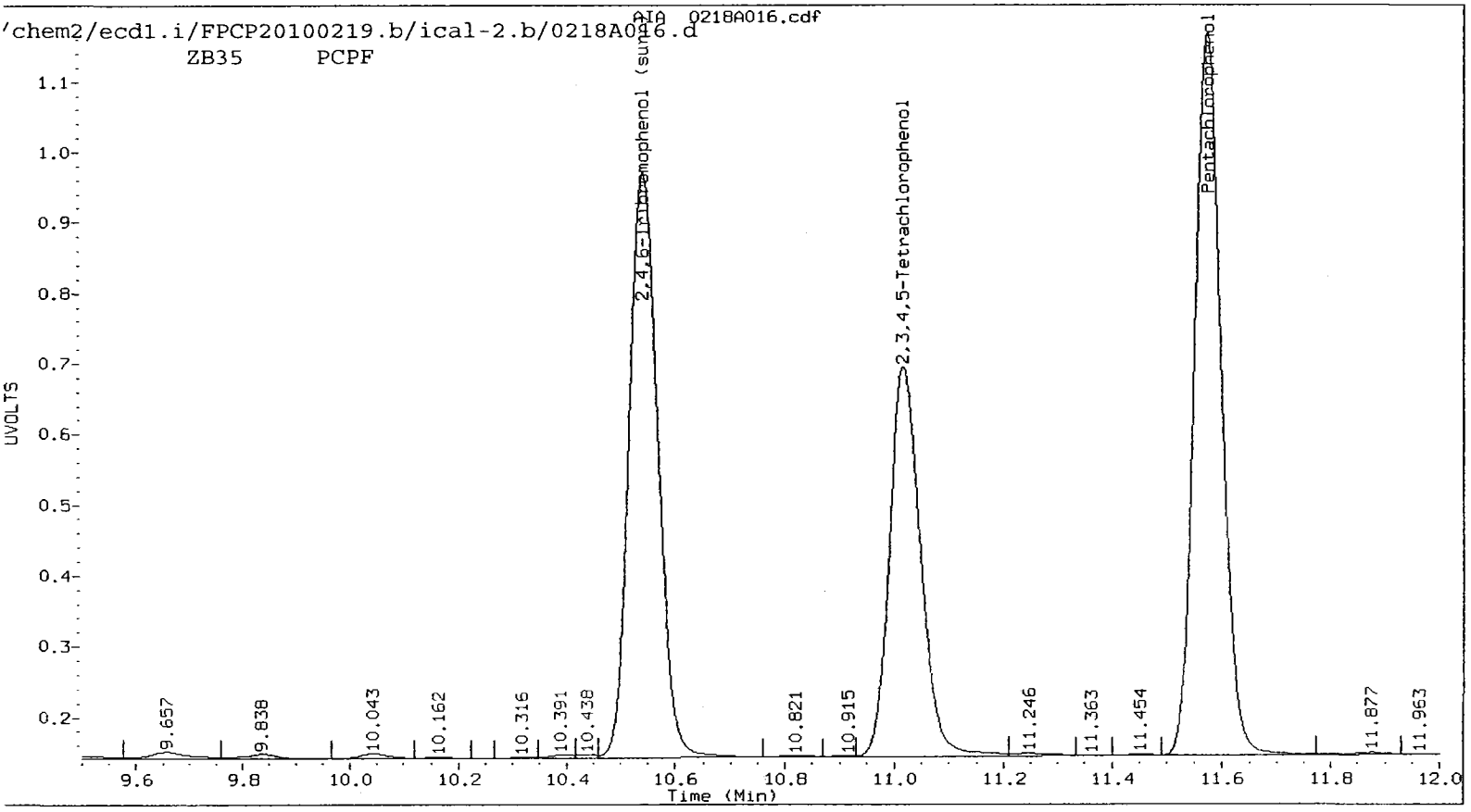
0218A016.cdf
ZB5 PCPF
2,4,6-Tribromophenol (surr)
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
9.626
10.599
10.759
11.792
UVOLTS
Time (Min)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0218A016.cdf
ZB35 PCPF
2,4,6-Tribromophenol (surr)
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
9.657
9.838
10.043
10.162
10.316
10.391
10.438
10.821
10.915
11.246
11.363
11.454
11.877
11.963
UVOLTS
Time (Min)

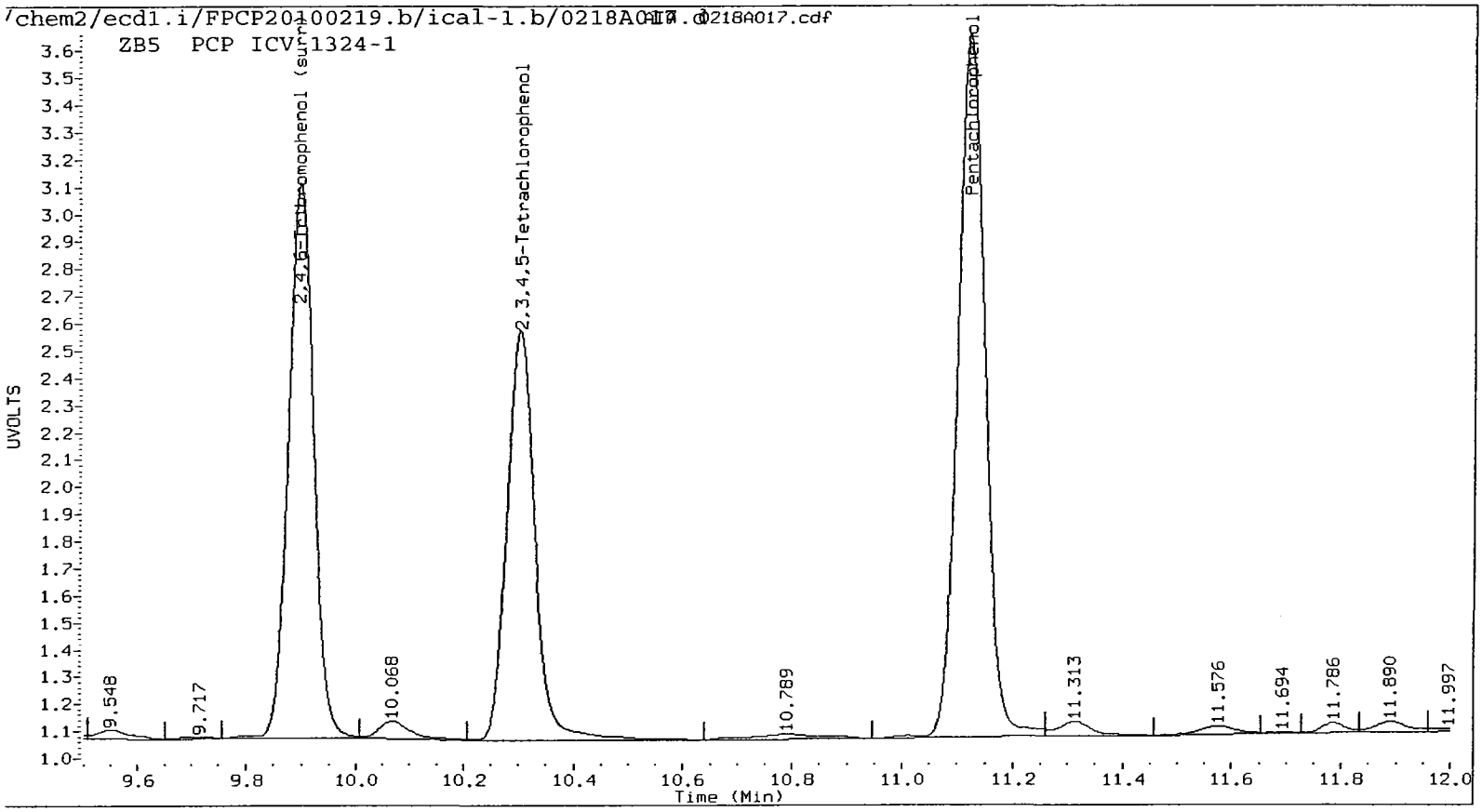
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

Data file 1: /chem2/ecd1.i/FPCP20100219.b/ical-1.b/0218A017.d ARI ID: PCP ICV 1324-1
Data file 2: /chem2/ecd1.i/FPCP20100219.b/ical-2.b/0218A017.d Client ID:
Method: /chem2/ecd1.i/FPCP20100219.b/FPCP.m Injection Date: 18-FEB-2010 22:16
Compound Sublist: all Report Date: 02/19/2010 10:00
Instrument: ecd1.i Matrix: NONE
Operator: ar Dilution Factor: 1.000

ZB-5 Col			ZB35 Col			ZB-5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound
11.123	0.000	442522	11.573	-0.003	520085	24.1681	25.3023	4.6	Pentachlorophenol
7.190	0.000	262734	7.262	0.000	296428	26.0005	25.7082	1.1	2,4,6-Trichlorophenol
7.540	0.000	232672	7.786	-0.001	268515	23.2198	23.8055	2.5	2,3,6-Trichlorophenol
8.133	-0.004	143744	8.511	-0.008	149667	28.4001	25.3640	11.3	2,4,5-Trichlorophenol
8.679	-0.002	167164	9.271	-0.010	173518	23.6351	22.2254	6.1	2,3,4-Trichlorophenol
8.910	-0.002	349991	9.180	-0.004	419174	22.8015	24.6749	7.9	2,3,5,6-Tetrachlorophenol
10.302	0.000	265864	11.017	-0.006	298698	22.6389	22.8340	0.9	2,3,4,5-Tetrachlorophenol
6.820	0.003	121854	7.090	-0.001	134770	303.8732	231.5688	27.0	2,4-Dichlorophenol
9.898	-0.001	323910	10.542	-0.005	418827	22.2	25.1	12.2	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
Pentachlorophenol	96.7	101.2
2,4,6-Trichlorophenol	104.0	102.8
2,3,6-Trichlorophenol	92.9	95.2
2,4,5-Trichlorophenol	113.6	101.5
2,3,4-Trichlorophenol	94.5	88.9
2,3,5,6-Tetrachlorophenol	91.2	98.7
2,3,4,5-Tetrachlorophenol	90.6	91.3
2,4-Dichlorophenol	121.5	92.6
2,4,6-TBP (surr)	44.4	50.1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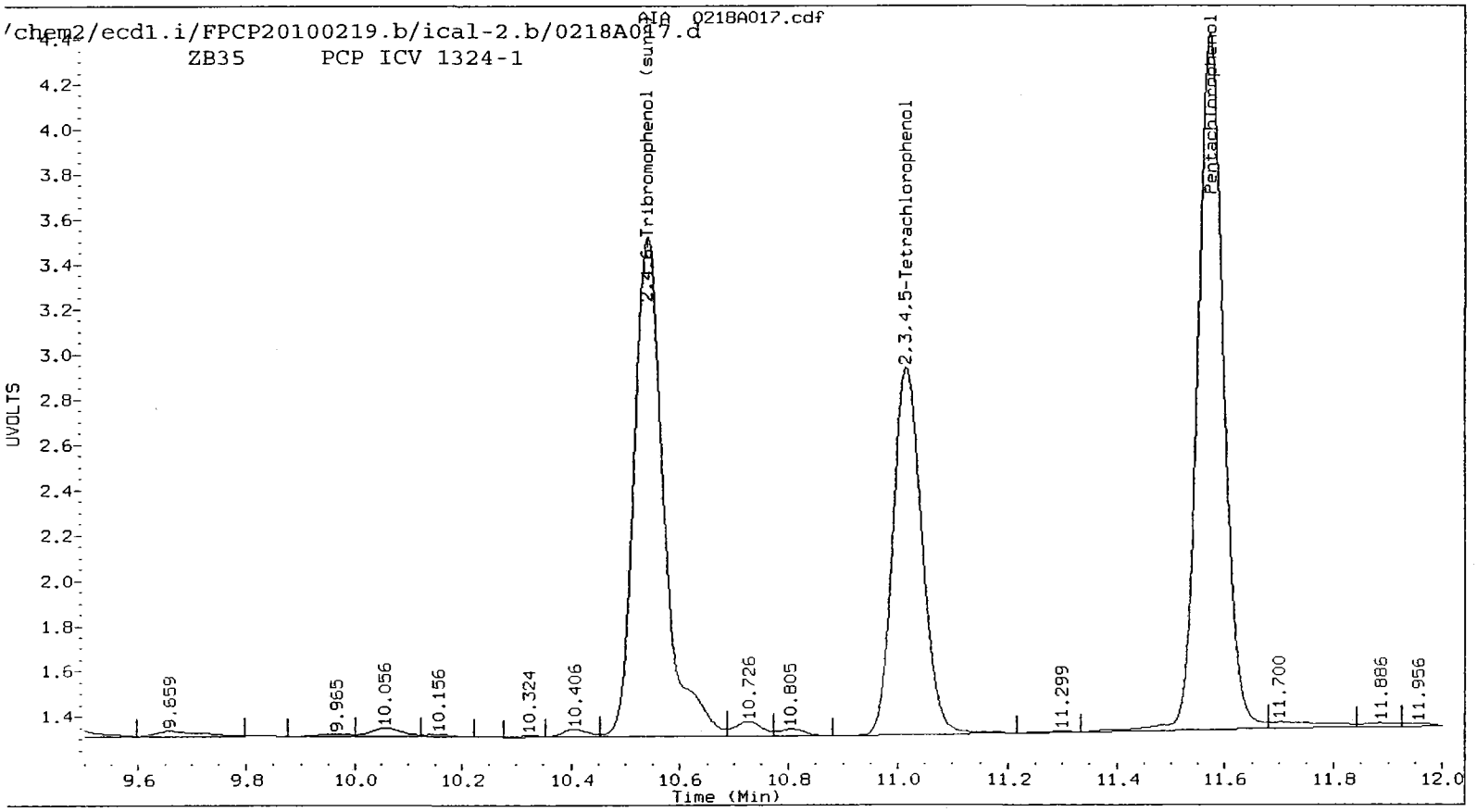
0218A017.cdf
ZB5 PCP ICV 1324-1
2,4,6-Tribromophenol (surr
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
9.548
9.717
10.068
10.789
11.313
11.576
11.694
11.786
11.890
11.997
UVOLTS
Time (Min)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0218A017.cdf
ZB35 PCP ICV 1324-1
2,4,6-Tribromophenol (surr
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
9.659
9.965
10.056
10.156
10.324
10.406
10.726
10.805
11.299
11.700
11.886
11.956
UVOLTS
Time (Min)

7E

CHLOROPHENOL CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

ARI Job No.: QL58 Project: LORA LAKE APARTMENTS

GC Column: ZB5 ID: 0.53 (mm)

Init. Calib. Date(s): 02/18/10 02/18/10

Client Sample No.(PCP): Date Analyzed :03/04/10

Lab Sample ID (PCP): PCP CCAL Time Analyzed :2208

PCP MIX COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT	NOM AMOUNT	%D
Pentachlorophenol	11.13	11.05	11.19	24.4	25.0	-2.4
2,4,6-Trichlorophenol	7.20	7.12	7.26	26.7	25.0	6.8
2,3,6-Trichlorophenol	7.55	7.47	7.61	24.0	25.0	-4.0
2,4,5-Trichlorophenol	8.15	8.07	8.21	26.0	25.0	4.0
2,3,4-Trichlorophenol	8.70	8.61	8.75	25.7	25.0	2.8
2,3,5,6-Tetrachlorophenol	8.92	8.84	8.98	25.3	25.0	1.2
2,3,4,5-Tetrachlorophenol	10.32	10.23	10.37	23.3	25.0	-6.8
2,4-Dichlorophenol	6.83	6.75	6.89	245	250	-2.0
2,4,6-Tribromophenol (surr	9.91	9.83	9.97	24.3	25.0	-2.8

AVERAGE %D = 3.6

FORM VII PCP

7E

CHLOROPHENOL CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

ARI Job No.: QL58 Project: LORA LAKE APARTMENTS

GC Column: ZB35 ID: 0.53 (mm)

Init. Calib. Date(s): 02/18/10 02/18/10

Client Sample No.(PCP): Date Analyzed :03/04/10

Lab Sample ID (PCP): PCP CCAL Time Analyzed :2208

PCP MIX COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT	NOM AMOUNT	%D
Pentachlorophenol	11.58	11.51	11.65	24.3	25.0	-2.8
2,4,6-Trichlorophenol	7.26	7.19	7.33	24.4	25.0	-2.4
2,3,6-Trichlorophenol	7.79	7.72	7.86	24.5	25.0	-2.0
2,4,5-Trichlorophenol	8.52	8.45	8.59	24.4	25.0	-2.4
2,3,4-Trichlorophenol	9.28	9.21	9.35	24.3	25.0	-2.8
2,3,5,6-Tetrachlorophenol	9.19	9.11	9.25	23.6	25.0	-5.6
2,3,4,5-Tetrachlorophenol	11.03	10.95	11.09	24.0	25.0	-4.0
2,4-Dichlorophenol	7.09	7.02	7.16	244	250	-2.4
2,4,6-Tribromophenol (surr	10.55	10.48	10.62	24.2	25.0	-3.2

AVERAGE %D = 3.1

FORM VII PCP

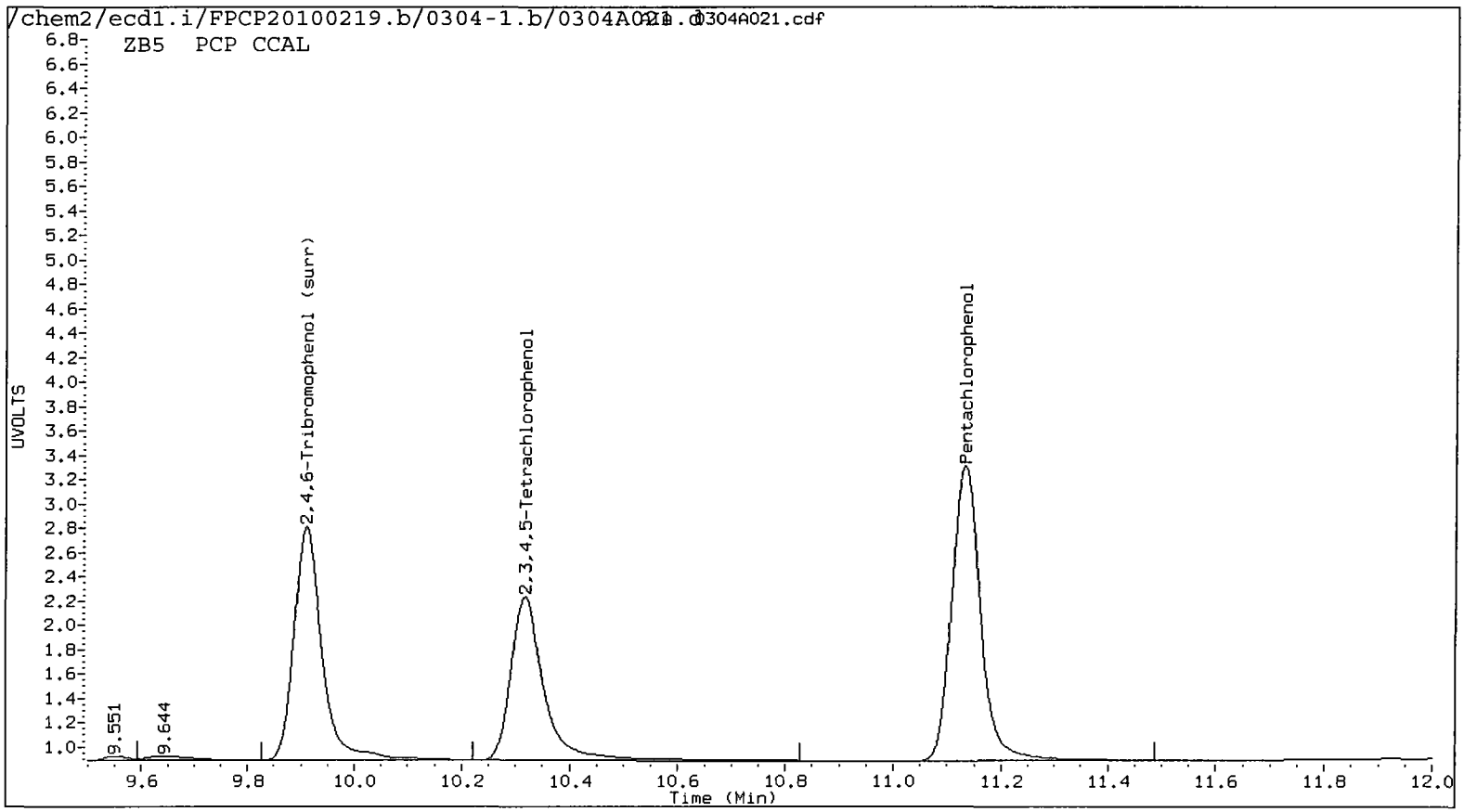
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

Data file 1: /chem2/ecd1.i/FPCP20100219.b/0304-1.b/0304A021.d ARI ID: PCP CCAL
Data file 2: /chem2/ecd1.i/FPCP20100219.b/0304-2.b/0304A021.d Client ID:
Method: /chem2/ecd1.i/FPCP20100219.b/FPCP.m Injection Date: 04-MAR-2010 22:08
Compound Sublist: all Report Date: 03/05/2010 14:51
Instrument: ecd1.i Matrix: NONE
Operator: ar Dilution Factor: 1.000

ZB-5 Col			ZB35 Col			ZB-5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound
11.133	0.010	446897	11.579	0.003	499600	24.4070	24.3057	0.4	Pentachlorophenol
7.197	0.007	269630	7.264	0.002	277302	26.6831	24.3787	9.0	2,4,6-Trichlorophenol
7.548	0.008	240876	7.789	0.002	276070	24.0385	24.4753	1.8	2,3,6-Trichlorophenol
8.151	0.014	131889	8.520	0.001	144048	26.0580	24.4118	6.5	2,4,5-Trichlorophenol
8.698	0.017	182023	9.281	0.001	189904	25.7361	24.3243	5.6	2,3,4-Trichlorophenol
8.922	0.010	388341	9.186	0.002	401433	25.3000	23.6305	6.8	2,3,5,6-Tetrachlorophenol
10.318	0.016	273699	11.027	0.004	313995	23.3061	24.0033	2.9	2,3,4,5-Tetrachlorophenol
6.826	0.009	120797	7.093	0.002	137400	245.3564	243.5427	0.7	2,4-Dichlorophenol
9.910	0.011	355045	10.550	0.004	403586	24.3	24.2	0.7	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
Pentachlorophenol	97.6	97.2
2,4,6-Trichlorophenol	106.7	97.5
2,3,6-Trichlorophenol	96.2	97.9
2,4,5-Trichlorophenol	104.2	97.6
2,3,4-Trichlorophenol	102.9	97.3
2,3,5,6-Tetrachlorophenol	101.2	94.5
2,3,4,5-Tetrachlorophenol	93.2	96.0
2,4-Dichlorophenol	98.1	97.4
2,4,6-TBP (surr)	97.3	96.6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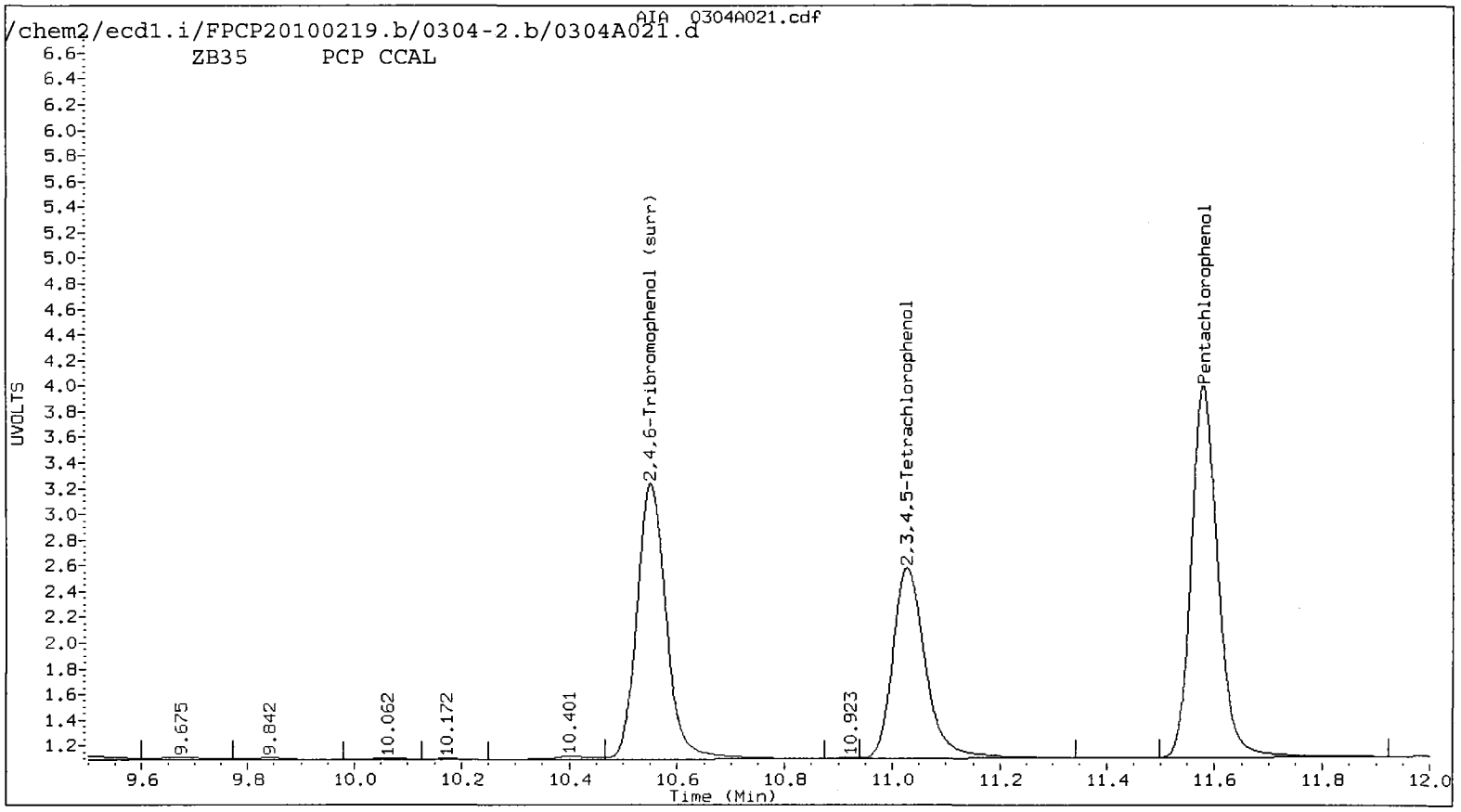
ZB5 PCP CCAL
UVOLTS
2,4,6-Tribromophenol (surr)
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
9.551
9.644
Time (Min)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AIA 0304A021.cdf
ZB35 PCP CCAL
UVOLTS
2,4,6-Tribromophenol (surr)
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
9.675
9.842
10.062
10.172
10.401
10.923
Time (Min)

7E

CHLOROPHENOL CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

ARI Job No.: QL58 Project: LORA LAKE APARTMENTS

GC Column: ZB5 ID: 0.53 (mm)

Init. Calib. Date(s): 02/18/10 02/18/10

Client Sample No.(PCP): Date Analyzed :03/05/10

Lab Sample ID (PCP): PCP CCAL Time Analyzed :0126

PCP MIX COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT	NOM AMOUNT	%D
Pentachlorophenol	11.13	11.05	11.19	23.5	25.0	-6.0
2,4,6-Trichlorophenol	7.20	7.12	7.26	27.0	25.0	8.0
2,3,6-Trichlorophenol	7.55	7.47	7.61	23.8	25.0	-4.8
2,4,5-Trichlorophenol	8.15	8.07	8.21	25.6	25.0	2.4
2,3,4-Trichlorophenol	8.70	8.61	8.75	25.0	25.0	0.0
2,3,5,6-Tetrachlorophenol	8.92	8.84	8.98	25.0	25.0	0.0
2,3,4,5-Tetrachlorophenol	10.32	10.23	10.37	22.4	25.0	-10.4
2,4-Dichlorophenol	6.82	6.75	6.89	247	250	-1.2
2,4,6-Tribromophenol (surr	9.91	9.83	9.97	23.8	25.0	-4.8

AVERAGE %D = 4.2

FORM VII PCP

7E

CHLOROPHENOL CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

ARI Job No.: QL58 Project: LORA LAKE APARTMENTS

GC Column: ZB35 ID: 0.53 (mm)

Init. Calib. Date(s): 02/18/10 02/18/10

Client Sample No.(PCP): Date Analyzed :03/05/10

Lab Sample ID (PCP): PCP CCAL Time Analyzed :0126

PCP MIX COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT	NOM AMOUNT	%D
Pentachlorophenol	11.58	11.51	11.65	23.8	25.0	-4.8
2,4,6-Trichlorophenol	7.26	7.19	7.33	24.5	25.0	-2.0
2,3,6-Trichlorophenol	7.79	7.72	7.86	23.2	25.0	-7.2
2,4,5-Trichlorophenol	8.52	8.45	8.59	24.7	25.0	-1.2
2,3,4-Trichlorophenol	9.28	9.21	9.35	23.9	25.0	-4.4
2,3,5,6-Tetrachlorophenol	9.19	9.11	9.25	23.6	25.0	-5.6
2,3,4,5-Tetrachlorophenol	11.03	10.95	11.09	23.7	25.0	-5.2
2,4-Dichlorophenol	7.09	7.02	7.16	242	250	-3.2
2,4,6-Tribromophenol (surr	10.55	10.48	10.62	23.8	25.0	-4.8

AVERAGE %D = 4.3

FORM VII PCP

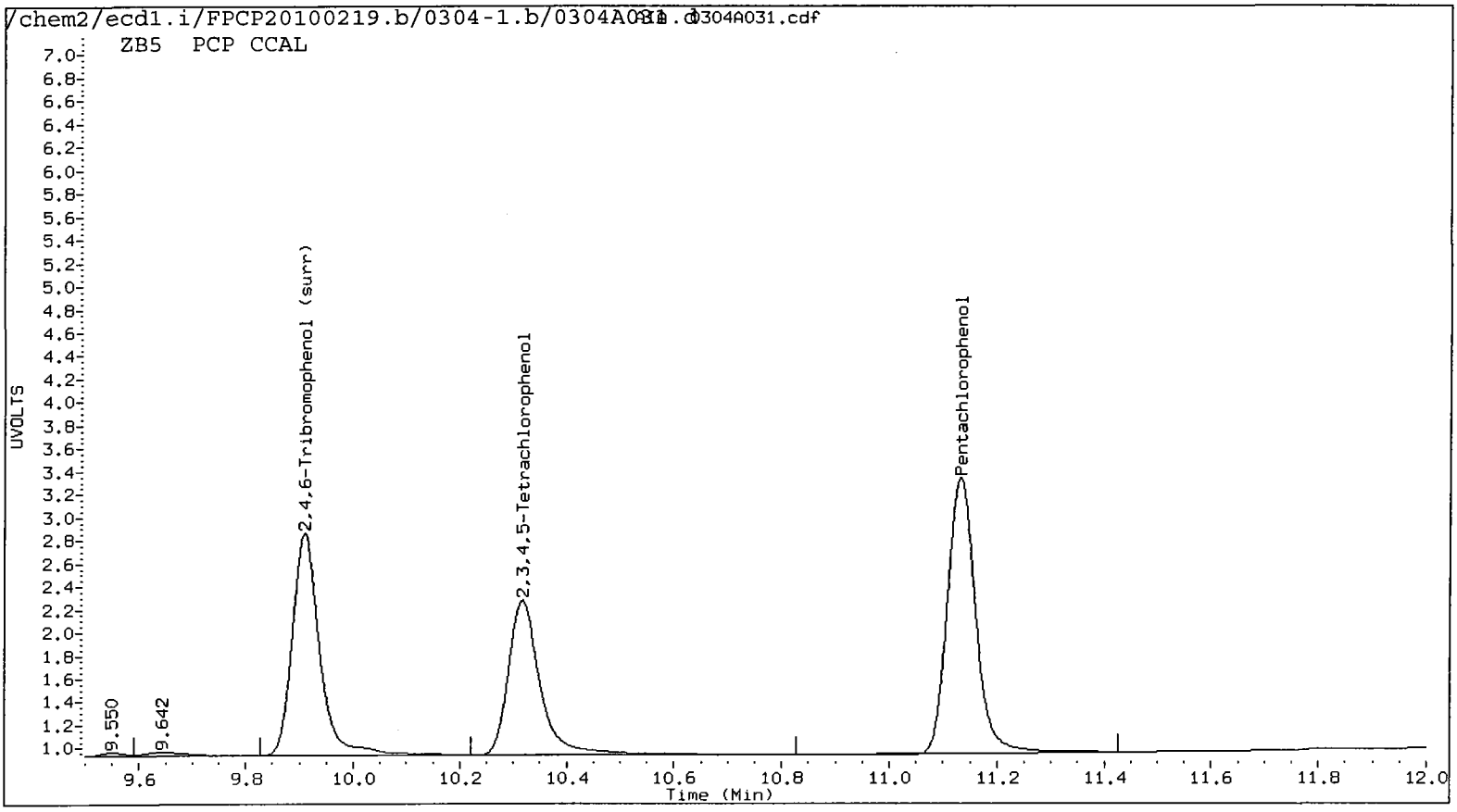
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

Data file 1: /chem2/ecd1.i/FPCP20100219.b/0304-1.b/0304A031.d ARI ID: PCP CCAL
Data file 2: /chem2/ecd1.i/FPCP20100219.b/0304-2.b/0304A031.d Client ID:
Method: /chem2/ecd1.i/FPCP20100219.b/FPCP.m Injection Date: 05-MAR-2010 01:26
Compound Sublist: all Report Date: 03/05/2010 14:51
Instrument: ecd1.i Matrix: NONE
Operator: ar Dilution Factor: 1.000

ZB-5 Col			ZB35 Col			ZB-5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound
11.132	0.009	430341	11.579	0.003	488717	23.5028	23.7763	1.2	Pentachlorophenol
7.197	0.007	272359	7.265	0.003	278843	26.9531	24.5142	9.5	2,4,6-Trichlorophenol
7.548	0.008	238179	7.790	0.003	261309	23.7694	23.1667	2.6	2,3,6-Trichlorophenol
8.151	0.014	129570	8.521	0.001	146034	25.5997	24.7483	3.4	2,4,5-Trichlorophenol
8.697	0.016	176714	9.282	0.001	186507	24.9854	23.8892	4.5	2,3,4-Trichlorophenol
8.921	0.009	383643	9.186	0.002	401361	24.9939	23.6262	5.6	2,3,5,6-Tetrachlorophenol
10.317	0.015	263272	11.028	0.005	309980	22.4183	23.6964	5.5	2,3,4,5-Tetrachlorophenol
6.825	0.008	121760	7.093	0.002	136530	247.3123	241.9994	2.2	2,4-Dichlorophenol
9.910	0.011	347075	10.550	0.003	398165	23.8	23.8	0.3	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
Pentachlorophenol	94.0	95.1
2,4,6-Trichlorophenol	107.8	98.1
2,3,6-Trichlorophenol	95.1	92.7
2,4,5-Trichlorophenol	102.4	99.0
2,3,4-Trichlorophenol	99.9	95.6
2,3,5,6-Tetrachlorophenol	100.0	94.5
2,3,4,5-Tetrachlorophenol	89.7	94.8
2,4-Dichlorophenol	98.9	96.8
2,4,6-TBP (surr)	95.1	95.3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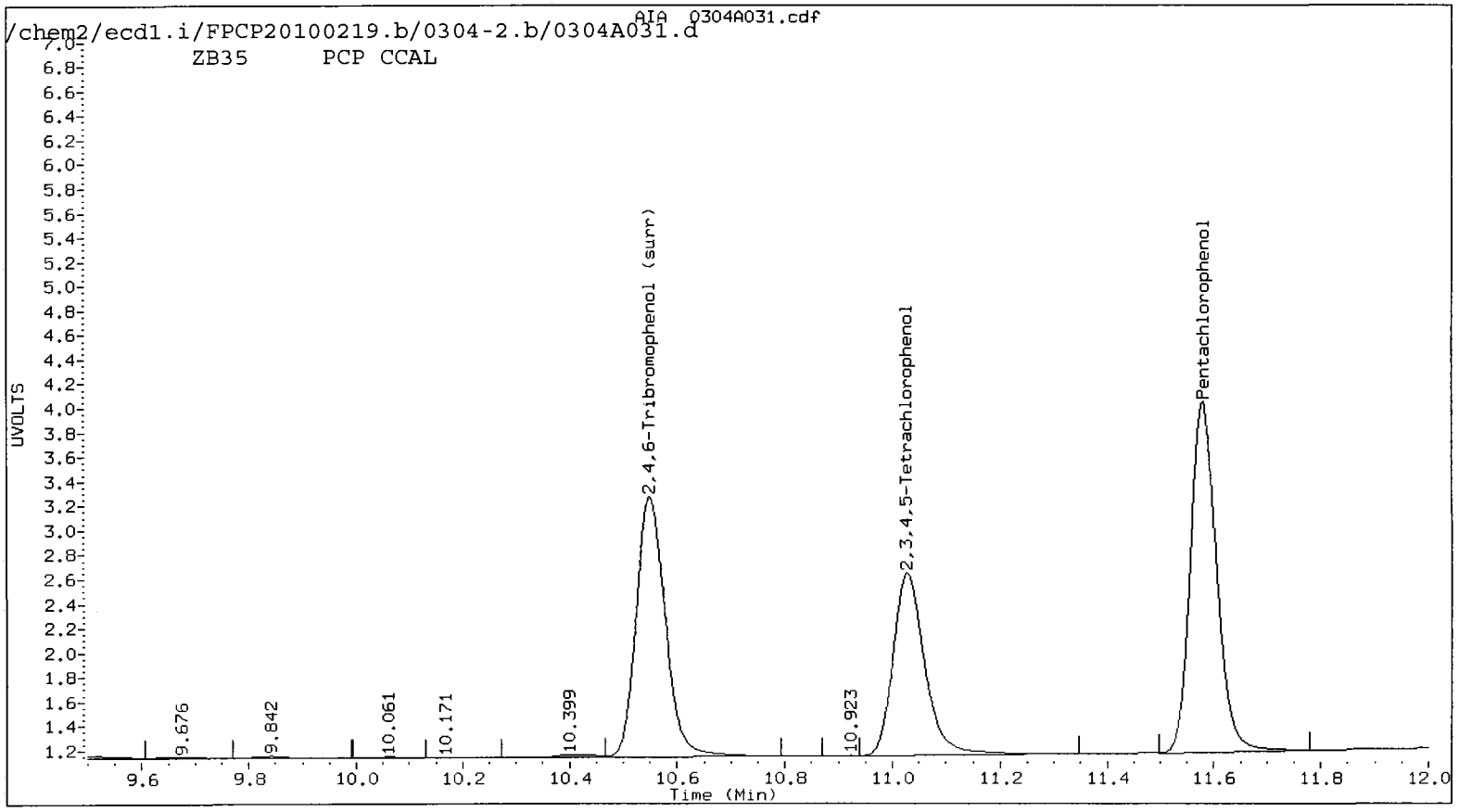
ZB5 PCP CCAL
UVOLTS
2,4,6-Tribromophenol (surr)
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
9.550
9.642
Time (Min)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ZB35 PCP CCAL
UVOLTS
2,4,6-Tribromophenol (surr)
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
9.676
9.842
10.061
10.171
10.399
10.923
Time (Min)

PCP/Chlorophenols ANALYSIS
QC Raw Data

prepared
for

Floyd/Snider

Project: Lora Lake Apartments, POS-LLA

ARI JOB NO: QL58

prepared
by

Analytical Resources, Inc.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041

Sample ID: MB-030210
METHOD BLANK

Lab Sample ID: MB-030210
LIMS ID: 10-4798
Matrix: Water
Data Release Authorized:
Reported: 03/05/10

QC Report No: QL58-Floyd/Snider
Project: Lora Lake Apartments
POS-LLA
Date Sampled: NA
Date Received: NA

Date Extracted: 03/02/10
Date Analyzed: 03/04/10 22:28
Instrument/Analyst: ECD1/AAR

Sample Amount: 500 mL
Final Extract Volume: 50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	0.25	< 0.25 U

Reported in µg/L (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	73.6%

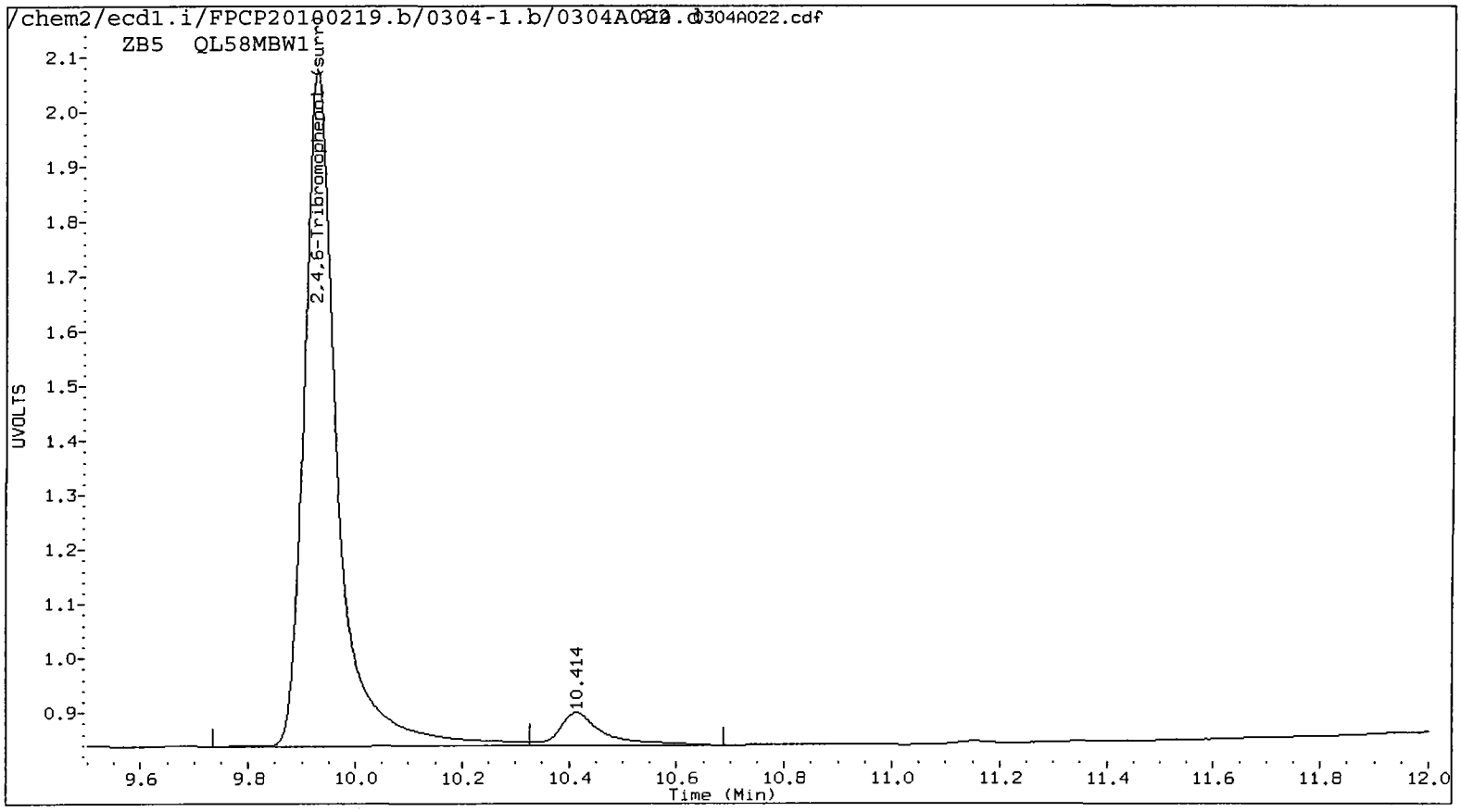
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report AR 3/5/2010

Data file 1: /chem2/ecd1.i/FPCP20100219.b/0304-1.b/0304A022.d ARI ID: QL58MBW1
Data file 2: /chem2/ecd1.i/FPCP20100219.b/0304-2.b/0304A022.d Client ID: QL58MBW1
Method: /chem2/ecd1.i/FPCP20100219.b/FPCP.m Injection Date: 04-MAR-2010 22:28
Compound Sublist: all Report Date: 03/05/2010 14:51
Instrument: ecd1.i Matrix: WATER
Operator: ar Dilution Factor: 1.000

ZB-5 Col RT	ZB-5 Col Shift	ZB-5 Col Response	ZB35 Col RT	ZB35 Col Shift	ZB35 Col Response	ZB-5 on col	ZB35 on col	RPD	Compound
----			----			0.0000	0.0000 LRL	---	Pentachlorophenol
7.208	0.018	9293	----			0.9197	0.0000	---	2,4,6-Trichlorophenol
----			----			0.0000	0.0000	---	2,3,6-Trichlorophenol
----			----			0.0000	0.0000	---	2,4,5-Trichlorophenol
----			----			0.0000	0.0000	---	2,3,4-Trichlorophenol
----			----			0.0000	0.0000	---	2,3,5,6-Tetrachlorophenol
----			----			0.0000	0.0000	---	2,3,4,5-Tetrachlorophenol
----			----			0.0000	0.0000	---	2,4-Dichlorophenol
9.928	0.029	268524	10.561	0.014	295697	18.4	17.7	3.8	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
2,4,6-TBP (surr)	73.6	70.8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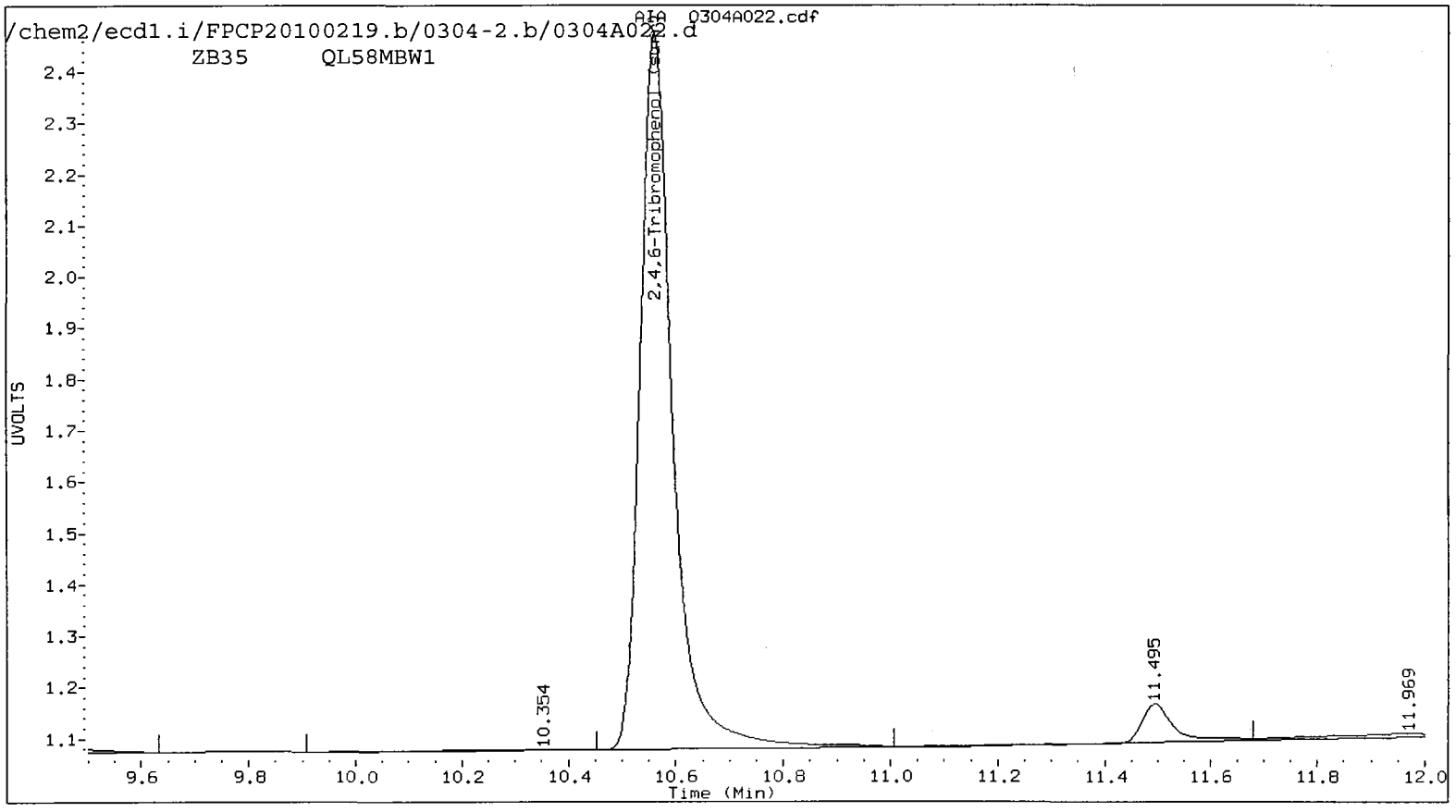
ZB5 QL58MBW1
2,4,6-Tribromophenol (surr
10.414
UVOLTS
Time (Min)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0304A022.cdf
ZB35 QL58MBW1
2,4,6-Tribromophenol (surr
10.354
11.495
11.969
UVOLTS
Time (Min)

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041

Sample ID: CB1022410Comp
MATRIX SPIKE

Lab Sample ID: QL58C
LIMS ID: 10-4798
Matrix: Water
Data Release Authorized:
Reported: 03/05/10

QC Report No: QL58-Floyd/Snider
Project: Lora Lake Apartments
POS-LLA
Date Sampled: 02/24/10
Date Received: 02/25/10

Date Extracted: 03/02/10
Date Analyzed: 03/05/10 00:07
Instrument/Analyst: ECD1/AAR

Sample Amount: 500 mL
Final Extract Volume: 50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	0.25	---

Reported in µg/L (ppb)

Chlorophenol Surrogate Recovery	
2,4,6-Tribromophenol	54.8%

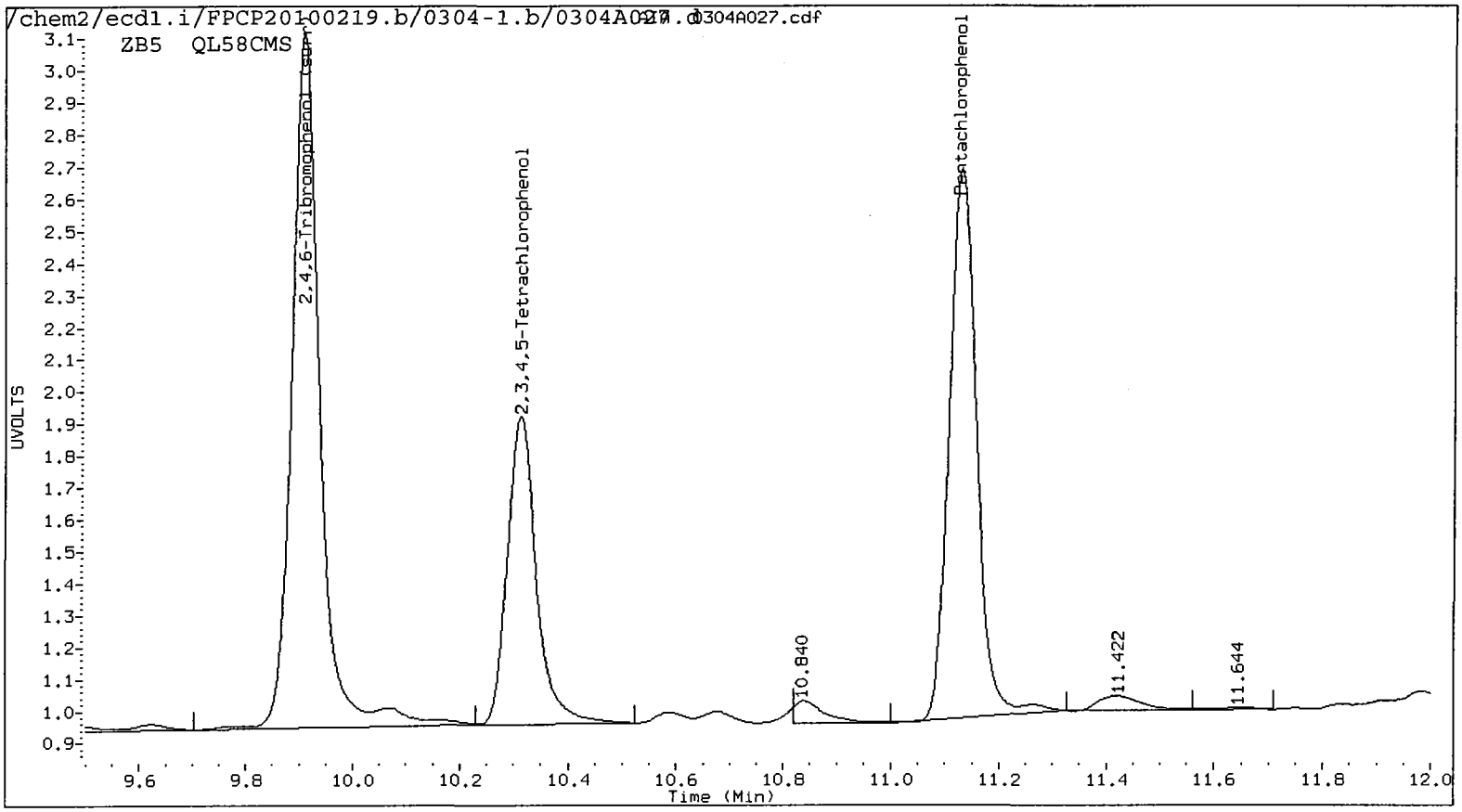
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report AR 3/5/2010

Data file 1: /chem2/ecd1.i/FPCP20100219.b/0304-1.b/0304A027.d ARI ID: QL58CMS
Data file 2: /chem2/ecd1.i/FPCP20100219.b/0304-2.b/0304A027.d Client ID: CB1022410Comp MS
Method: /chem2/ecd1.i/FPCP20100219.b/FPCP.m Injection Date: 05-MAR-2010 00:07
Compound Sublist: all Report Date: 03/05/2010 14:54
Instrument: ecd1.i Matrix: WATER
Operator: ar Dilution Factor: 1.000

ZB-5 Col			ZB35 Col			ZB-5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound
11.130	0.007	301605	11.577	0.001	346818	16.4720	16.8728	2.4	Pentachlorophenol
7.198	0.008	165390	7.266	0.004	168400	16.3673	14.8047	10.0	2,4,6-Trichlorophenol
7.553	0.013	224251	7.791	0.004	168400	22.3795	14.9297	39.9	2,3,6-Trichlorophenol
8.157	0.020	81819	8.522	0.003	83917	16.1655	14.2213	12.8	2,4,5-Trichlorophenol
8.702	0.021	84005	9.283	0.003	88395	11.8774	11.3223	4.8	2,3,4-Trichlorophenol
8.924	0.012	260688	9.186	0.003	269619	16.9836	15.8712	6.8	2,3,5,6-Tetrachlorophenol
10.314	0.011	179438	11.024	0.000	201910	15.2795	15.4350	1.0	2,3,4,5-Tetrachlorophenol
6.834	0.017	26415	7.095	0.005	27957	53.6530	49.5540	7.9	2,4-Dichlorophenol
9.911	0.012	399679	10.549	0.003	438878	27.4	26.3	4.1	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
Pentachlorophenol	65.9	67.5
2,4,6-Trichlorophenol	65.5	59.2
2,3,6-Trichlorophenol	89.5	59.7
2,4,5-Trichlorophenol	64.7	56.9
2,3,4-Trichlorophenol	47.5	45.3
2,3,5,6-Tetrachlorophenol	67.9	63.5
2,3,4,5-Tetrachlorophenol	61.1	61.7
2,4-Dichlorophenol	21.5	19.8
2,4,6-TBP (surr)	54.7	52.5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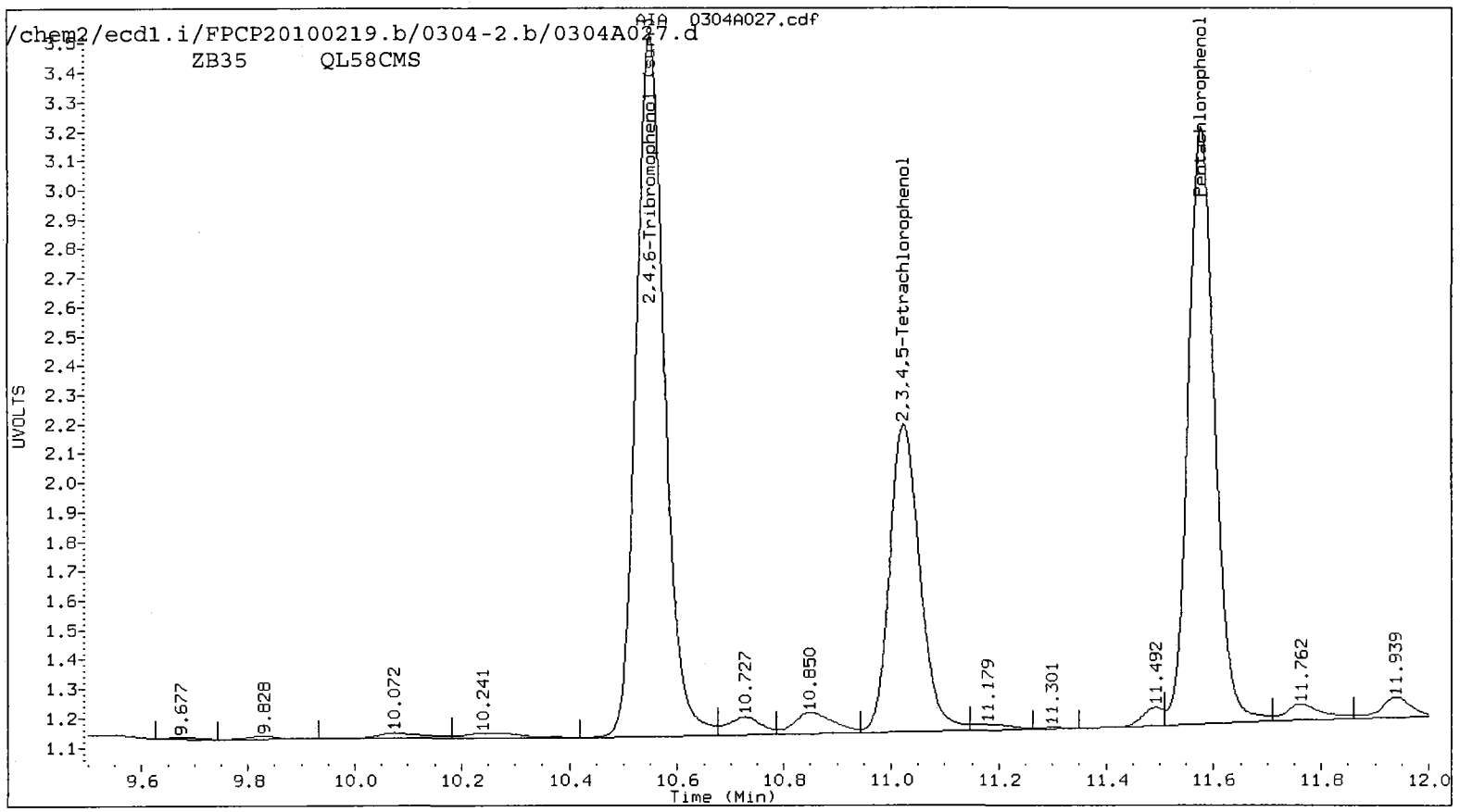
0304A027.cdf
ZB5 QL58CMS
2,4,6-Tribromophenol (surr)
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
10.840
11.422
11.644
UVOLTS
Time (Min)


/chem2/ecd1.i/FPCP20100219.b/0304-2.b/0304A027.d
AIB 0304A027.cdf
ZB35 QL58CMS
2,4,6-Tribromophenol (surr)
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
9.677
9.828
10.072
10.241
10.727
10.850
11.179
11.301
11.492
11.762
11.939
UVOLTS
Time (Min)

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Page 1 of 1

Sample ID: CB1022410Comp
MATRIX SPIKE DUP

Lab Sample ID: QL58C
LIMS ID: 10-4798
Matrix: Water
Data Release Authorized:
Reported: 03/05/10

QC Report No: QL58-Floyd/Snider
Project: Lora Lake Apartments
POS-LLA
Date Sampled: 02/24/10
Date Received: 02/25/10

Date Extracted: 03/02/10
Date Analyzed: 03/05/10 00:27
Instrument/Analyst: ECD1/AAR

Sample Amount: 500 mL
Final Extract Volume: 50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	0.25	---

Reported in µg/L (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	53.6%

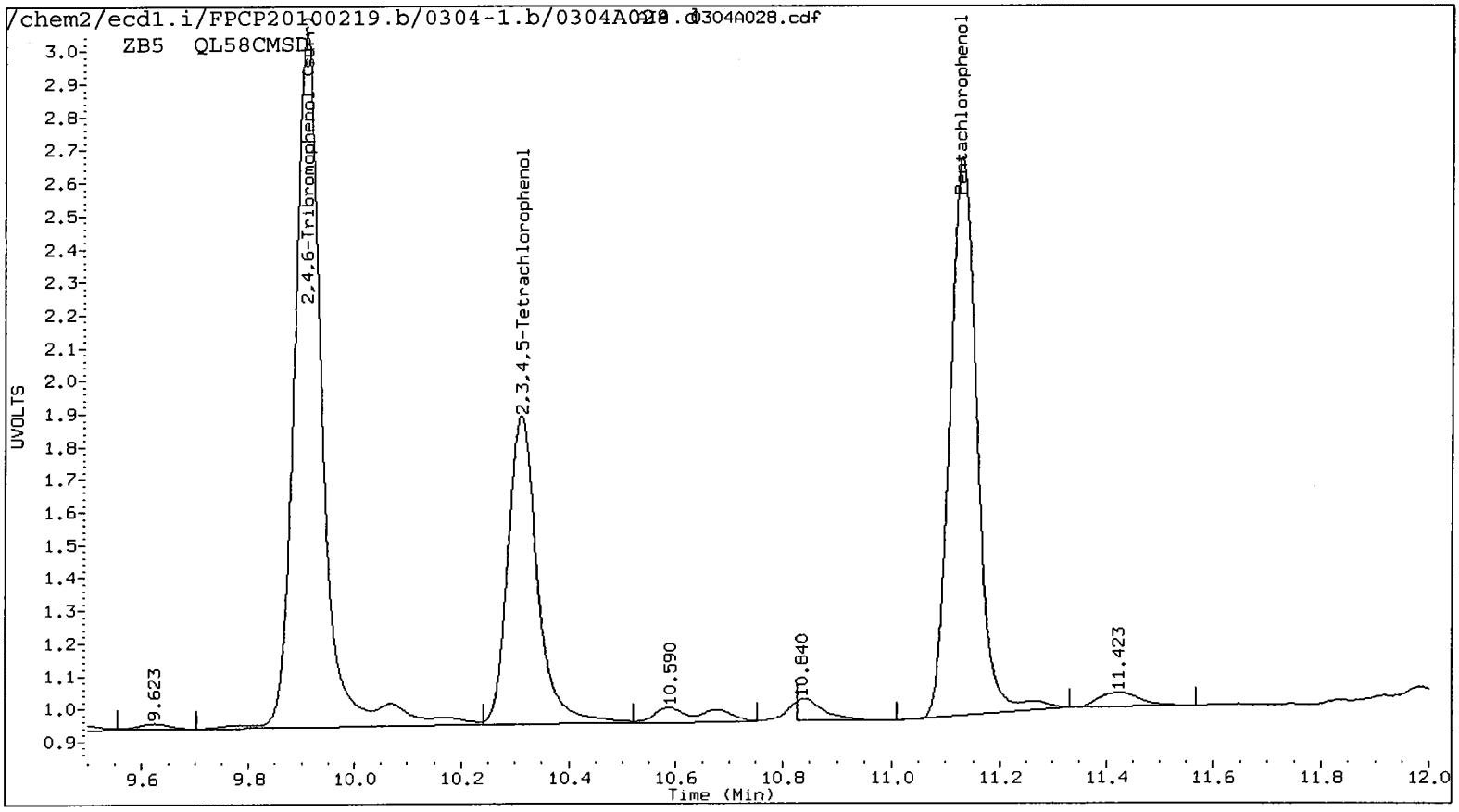
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report AR 3/5/2010

Data file 1: /chem2/ecd1.i/FPCP20100219.b/0304-1.b/0304A028.d ARI ID: QL58CMSD
Data file 2: /chem2/ecd1.i/FPCP20100219.b/0304-2.b/0304A028.d Client ID: CB1022410Comp MSD
Method: /chem2/ecd1.i/FPCP20100219.b/FPCP.m Injection Date: 05-MAR-2010 00:27
Compound Sublist: all Report Date: 03/05/2010 14:55
Instrument: ecd1.i Matrix: WATER
Operator: ar Dilution Factor: 1.000

ZB-5 Col RT	Shift	Response	ZB35 Col RT	Shift	Response	ZB-5 on col	ZB35 on col	RPD	Compound
11.130	0.007	297242	11.577	0.001	344694	16.2337	16.7695	3.2	Pentachlorophenol
7.198	0.008	150536	7.265	0.003	161715	14.8973	14.2171	4.7	2,4,6-Trichlorophenol
7.552	0.012	229910	7.790	0.003	169271	22.9442	15.0069	41.8*	2,3,6-Trichlorophenol
8.157	0.020	77513	8.522	0.002	77353	15.3146	13.1090	15.5	2,4,5-Trichlorophenol
8.701	0.020	106202	9.283	0.002	79976	15.0158	10.2439	37.8	2,3,4-Trichlorophenol
8.923	0.011	257144	9.186	0.002	266937	16.7527	15.7134	6.4	2,3,5,6-Tetrachlorophenol
10.313	0.011	178609	11.024	0.000	197431	15.2090	15.0926	0.8	2,3,4,5-Tetrachlorophenol
6.832	0.015	23004	7.096	0.005	27929	46.7262	49.5043	5.8	2,4-Dichlorophenol
9.910	0.011	391156	10.548	0.002	427925	26.8	25.6	4.5	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
Pentachlorophenol	64.9	67.1
2,4,6-Trichlorophenol	59.6	56.9
2,3,6-Trichlorophenol	91.8	60.0
2,4,5-Trichlorophenol	61.3	52.4
2,3,4-Trichlorophenol	60.1	41.0
2,3,5,6-Tetrachlorophenol	67.0	62.9
2,3,4,5-Tetrachlorophenol	60.8	60.4
2,4-Dichlorophenol	18.7	19.8
2,4,6-TBP (surr)	53.6	51.2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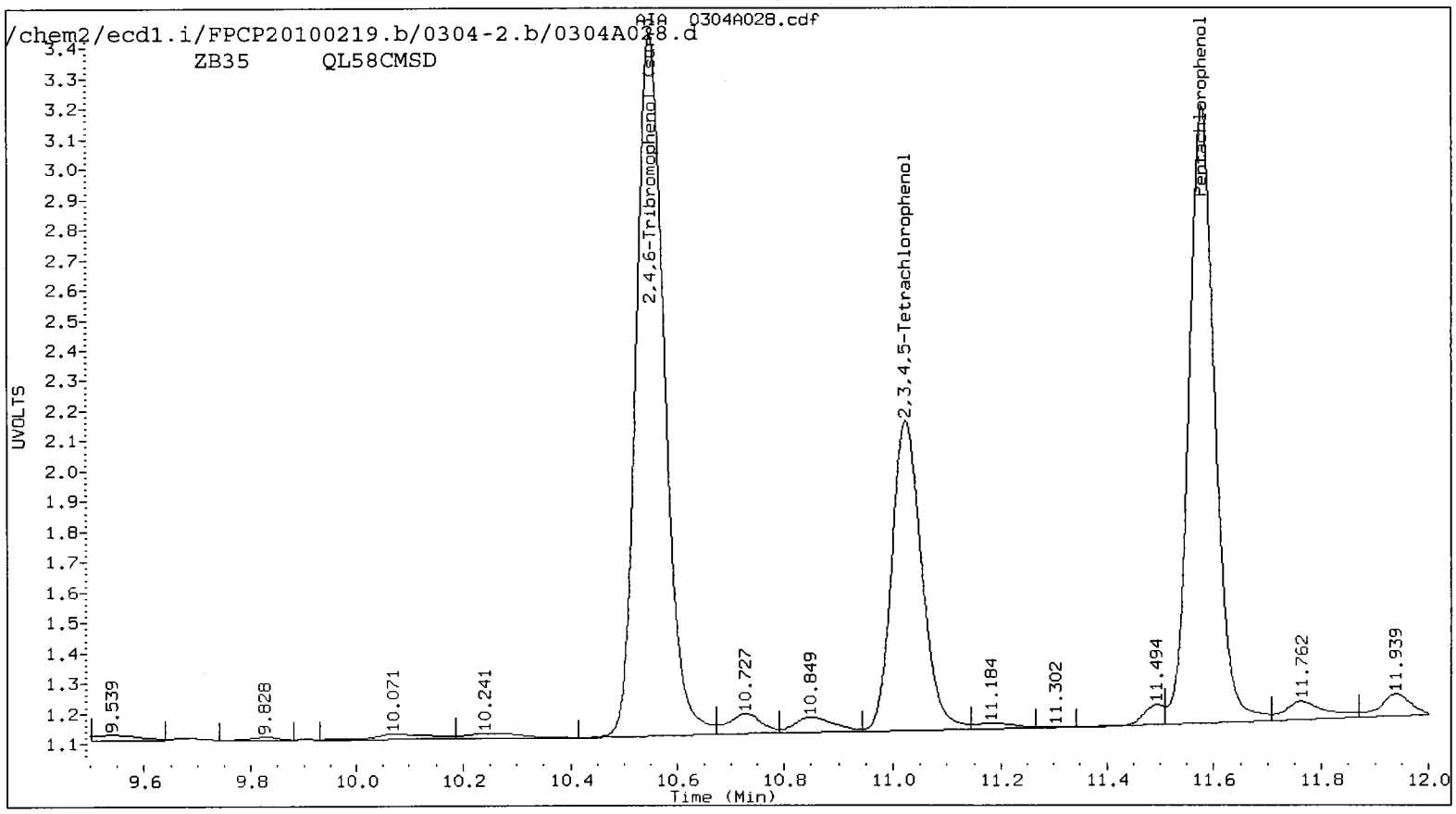
0304A028.cdf
ZB5 QL58CMSD
2,4,6-Tribromophenol (surr
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
9.623
10.590
10.840
11.423
UVOLTS
Time (Min)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0304A028.cdf
ZB35 QL58CMSD
2,4,6-Tribromophenol (surr
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
9.539
9.828
10.071
10.241
10.727
10.849
11.184
11.302
11.494
11.762
11.939
UVOLTS
Time (Min)

Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

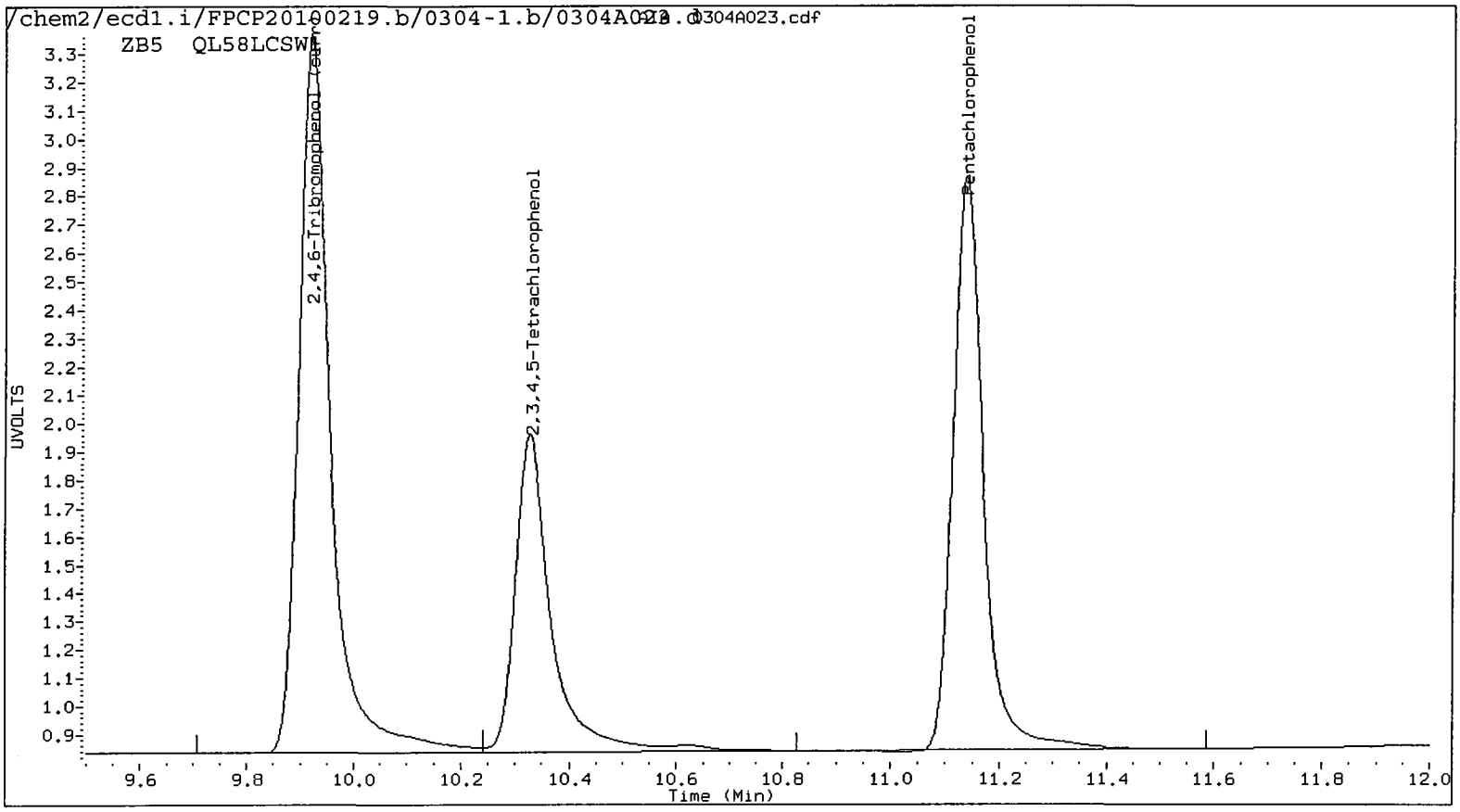
AR 3/5/2010

Data file 1: /chem2/ecd1.i/FPCP20100219.b/0304-1.b/0304A023.d ARI ID: QL58LCSW1
Data file 2: /chem2/ecd1.i/FPCP20100219.b/0304-2.b/0304A023.d Client ID: QL58LCSW1
Method: /chem2/ecd1.i/FPCP20100219.b/FPCP.m Injection Date: 04-MAR-2010 22:47
Compound Sublist: all Report Date: 03/05/2010 14:51
Instrument: ecd1.i Matrix: WATER
Operator: ar Dilution Factor: 1.000

ZB-5 Col			ZB35 Col			ZB-5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound
11.140	0.017	393345	11.583	0.007	461615	21.4823	22.4577	4.4	Pentachlorophenol
7.199	0.009	200997	7.266	0.004	224192	19.8910	19.7097	0.9	2,4,6-Trichlorophenol
7.552	0.012	215302	7.792	0.005	232278	21.4863	20.5929	4.2	2,3,6-Trichlorophenol
8.168	0.031	116877	8.530	0.011	122132	23.0920	20.6977	10.9	2,4,5-Trichlorophenol
8.716	0.035	136178	9.293	0.012	168005	19.2541	21.5193	11.1	2,3,4-Trichlorophenol
8.931	0.019	333266	9.192	0.008	330691	21.7119	19.4663	10.9	2,3,5,6-Tetrachlorophenol
10.330	0.028	263130	11.034	0.011	293182	22.4062	22.4122	0.0	2,3,4,5-Tetrachlorophenol
6.830	0.013	49814	7.097	0.006	58941	101.1798	104.4728	3.2	2,4-Dichlorophenol
9.923	0.024	527423	10.557	0.011	594346	36.1	35.6	1.5	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
Pentachlorophenol	85.9	89.8
2,4,6-Trichlorophenol	79.6	78.8
2,3,6-Trichlorophenol	85.9	82.4
2,4,5-Trichlorophenol	92.4	82.8
2,3,4-Trichlorophenol	77.0	86.1
2,3,5,6-Tetrachlorophenol	86.8	77.9
2,3,4,5-Tetrachlorophenol	89.6	89.6
2,4-Dichlorophenol	40.5	41.8
2,4,6-TBP (surr)	72.2	71.2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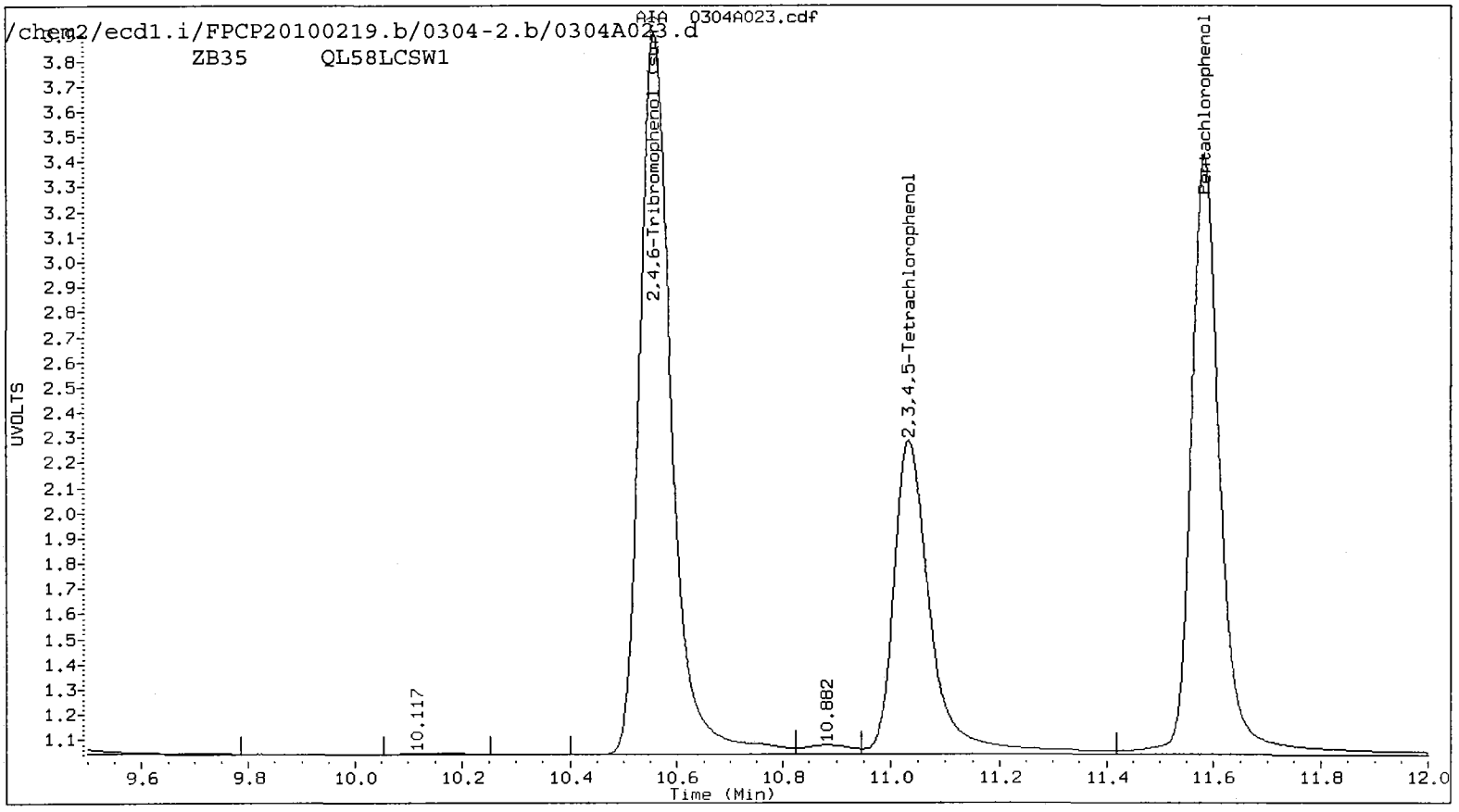
0304A023.cdf
ZB5 QL58LCSW1
2,4,6-Tribromophenol (surr
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
UVOLTS
Time (Min)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0304A023.cdf
ZB35 QL58LCSW1
2,4,6-Tribromophenol (surr
10.117
10.882
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
UVOLTS
Time (Min)

PCP/Chlorophenols ANALYSIS
Extraction Bench Sheets/Run Logs

prepared
for

Floyd/Snider

Project: Lora Lake Apartments, POS-LLA

ARI JOB NO: QL58

prepared
by

Analytical Resources, Inc.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Organic Extractions Benchsheet

8041 PCP – Water
Separatory Funnel (3510C) (SOP # 3311S)

Preparation Test PCP # 1

ARI Job No(s) QL58

In-House (0.25ppb)
Batch set up by: SP

Bottle #	Extraction Requirements	Verify Client ID	Volume Extracted	KD Exchange To Hexane (X 2)	Turbo Vap 1 (2) 3	Final Effective Volume	Volume to Lab	Derivitize	Comments
	QL58 MB	Date 03/02/10	500mL			50mL	1-2mL		
	SB	↓	↓			↓	↓		
	SB Dup.		↓						
	QL58 A	checked	500mL						
	B								
6	C								
8	CmS								
3	CmSD								
	D								
		AB 03/02/10							
Analyst/Date:	AB ~~03~~ 03/02/10			3-02-10 TS	WD 03/03/10	WP 03/03/10	M 03/03/10		

Standard	Standard ID	Volume	Expiration Date	Analyst	Witness
Surrogate	F 1683-3	100µL 12.5	12/9/10	AB	SP
Spike	6 1655-3	100µL 12.5	9/24/10	AB	SP
Extraction Time:	1020	125			

SPECIAL INSTRUCTIONS: 1. Add surr/spike. 2. Acidify all with 1:1 Sulfuric Acid 3. Extract 3X with 30mL DCM.

4. KD (NO Drying Column) at 80° to 5mL. 5. Exchange (2 X with 20mL) Hexane at 100°. 6. Turbo Vap to 1-2mL

7. Pipet using Hexane into Herb Tubes. 8. GC Analyst to Derivitize. A. Archive Y (N)

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Organic Extractions Laboratory Analyst Notes

ARI Job No.: QL58 Client ID: Floyd/Snider

Parameter: PCP Client Project: Lora Lake Apartments

Note problems, concerns, corrective actions	Analyst/Date
Screens: Soil/Sediment/Solid/Other:	
☐ No Anomalies (standard soil/sediment)	
☐ Wet sediment/sludge=	
☐ Standing Water Decanted=	
☐ Standing Water Homogenized (Shared samples)=	
☐ Clay (Difficult to homogenize/Mixed with Kitchen Aid)=	
☐ Rocks/Organics=	
☐ Oily, obvious fuel/sulfur odors=	
☐ Other (Details)=	
Aqueous:	
☐ No Anomalies	
☑ Turbid/Color= QL58 Samples A-D are greyish/yellow in color	AR 03/02/10
☑ Particulates= Samples A,B have 2% of particulates Sample D has 1% of	AR 03/02/10 particulates
☑ Emulsions= QL58 Samples A-D all had emulsions 10% poured in Sep. fun.	AR 03/02/10 emulsion broke up
☑ Other (Details)= Sample C, Cmsd, Cms has no particulates, has lighter greyish/yellow color	AR 03/02/10
☐ Other Notes/Comments=	

3056F

Revision 007
02/25/10

Analytical Resources Inc.: Organics Instrument Log

ECD1 Serial No.: 3410A39690

Date: 2/18/2010 Analysis: Herb/PCP Analyst: JR & AR

GC Program: HERB.M & Column No: 150608/148446 Column Type: 2135/2B35

Instrument Tune (.U or .CT.): PCPFAST.M EM Voltage: NA

Calibration File: FPCP20100219.b & HERB20100818.b Curve Date: 2/18/2010

IS/SS	Ical/Ccal	LCS/ICV
	1659-1	1353-2
	1663-2	1324-1
		1702-3

GC LOG SUMMARY FOR DATABATCH - /chem2/ecd1.i/PCP20100218.b/ical-2.l

	Inject Date/Time	Filename	DF	LabID	ClientID
1	18-FEB-2010 14:52	0218A002.d	1	PCPD	
2	18-FEB-2010 15:28	0218A003.d	1	PCPA	
3	18-FEB-2010 16:04	0218A004.d	1	PCPB	
4	18-FEB-2010 16:40	0218A005.d	1	PCPC	
5	18-FEB-2010 17:17	0218A006.d	1	PCPE	
6	18-FEB-2010 17:53	0218A007.d	1	PCPF	
7	18-FEB-2010 18:29	0218A008.d	1	PCP ICV 1324-1	
8	18-FEB-2010 19:05	0218A009.d	1	PCP ICV 1702-3	
9	18-FEB-2010 19:41	0218A010.d	1	DRVBLK 021810	
10	18-FEB-2010 20:17	0218A011.d	1	PCPD	
11	18-FEB-2010 20:37	0218A012.d	1	PCPA	
12	18-FEB-2010 20:57	0218A013.d	1	PCPB	
13	18-FEB-2010 21:17	0218A014.d	1	PCPC	
14	18-FEB-2010 21:37	0218A015.d	1	PCPE	
15	18-FEB-2010 21:56	0218A016.d	1	PCPF	
16	18-FEB-2010 22:16	0218A017.d	1	PCP ICV 1324-1	
17	18-FEB-2010 22:36	0218A018.d	1	PCP ICV 1702-3	
18	18-FEB-2010 22:56	0218A019.d	1	DRVBLK 021810	
19	18-FEB-2010 23:16	0218A020.d	1	PCP CCAL	
20	18-FEB-2010 23:35	0218A021.d	1	QJ18MBW1	QJ18MBW1
21	18-FEB-2010 23:55	0218A022.d	1	QJ18LCSW1	QJ18LCSW1
22	19-FEB-2010 00:15	0218A023.d	1000	QJ18A	SW 13#
23	19-FEB-2010 00:35	0218A024.d	1	QJ18B	SW 2#
24	19-FEB-2010 00:55	0218A025.d	50	QJ18C	SW 15#
25	19-FEB-2010 01:15	0218A026.d	1	PCP	
26	19-FEB-2010 01:34	0218A027.d	1	PCP CCAL	
27	19-FEB-2010 01:54	0218A028.d	1	QJ36MBW1	QJ36MBW1
28	19-FEB-2010 02:14	0218A029.d	1	QJ36LCSW1	QJ36LCSW1
29	19-FEB-2010 02:34	0218A030.d	1	QJ36LCSDW1	QJ36LCSDW1
30	19-FEB-2010 02:54	0218A031.d	1	QJ36A	MW-2
31	19-FEB-2010 03:13	0218A032.d	1	QJ36B	MW-3
32	19-FEB-2010 03:33	0218A033.d	10	QJ36C	MW-15
33	19-FEB-2010 03:53	0218A034.d	1	QJ36D	MW-16
34	19-FEB-2010 04:13	0218A035.d	1	QJ36E	MW-17
35	19-FEB-2010 04:33	0218A036.d	1	QJ36F	MW-18
36	19-FEB-2010 04:52	0218A037.d	1	QJ36G	MW-22
37	19-FEB-2010 05:12	0218A038.d	1	PCP	
38	19-FEB-2010 05:32	0218A039.d	1	PCP CCAL	
39	19-FEB-2010 05:52	0218A040.d	40	QJ36H	MW-23
40	19-FEB-2010 06:12	0218A041.d	1	QJ36I	MW-24
41	19-FEB-2010 06:32	0218A042.d	10	QJ36J	MW-25
42	19-FEB-2010 06:51	0218A043.d	1	QJ36K	MW-26
43	19-FEB-2010 07:11	0218A044.d	1	QJ36L	MW-27
44	19-FEB-2010 07:31	0218A045.d	1	QJ36M	MW-28
45	19-FEB-2010 07:51	0218A046.d	1	QJ36N	MW-29
46	19-FEB-2010 08:11	0218A047.d	1	QJ36O	MW-30
47	19-FEB-2010 08:30	0218A048.d	1	QJ36P	MW-31
48	19-FEB-2010 08:50	0218A049.d	200	QJ36Q	MW-32
49	19-FEB-2010 09:10	0218A050.d	1	PCP	
50	19-FEB-2010 09:30	0218A051.d	1	PCP CCAL	

AR 2/23/2010

Maintenance / Comments

Cleaned inlet, cleaned liner & clipped loop from pre-column

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control):

Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

GC Analyst Notes / Corrective Action Log

ARI Project ID: pentachlorophenol Client ID: _____

ARI SOP: **403S**(PCB) **405S**(Herbicides) **407S**(TPH-D) **409S**(HCID) **423S**(Pesticides) (**Other**)

Parameter(s): PCP (pentachlorophenol) 2,4,6-Tribromophenol

Instrument: FID-3A FID-3B FID-4A FID-4B FID-7 FID-8
(ECD-1) ECD-3 ECD-4 ECD-5 ECD-6 ECD-7

Dates: Curve: 02/18/10 Analysis Start: 02/18/10

Endrin/DDT Breakdown <15%? YES / NO / (NA) Method Blank In Control? YES / NO

ICal Meets RF & %RSD Criteria? (YES) / NO LCS/LCSD Recovery In Control? YES / NO

CCal Meets RF & %RSD Criteria (YES) / NO Surrogate Recovery In Control? (YES) / NO

Internal Standard Meets Criteria? YES / NO / (NA) Special Analysis Criteria Met? YES / NO / (NA)

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

Additional Details on Reverse: Yes / (No)

Analyst Signature: _____ **Date:** 02/19/10

Reviewer's Signature: _____ **Date:** 2/19/10

Analytical Resources Inc.: Organics Instrument Log

ECD1 Serial No.: 3410A39690

Date: 3/4/2010 Analysis: HERB & Cl. Phenols Analyst: AR

GC Program: HERB.m & Column No: 150608/148146 Column Type: 285/2835

Instrument Tune (.U or .CT.): PCPFAST.m EM Voltage: NA

Calibration File: FPCP20100219.b & HERB20100218 Curve Date: 2/18/2010 & ~~2/17/2010~~ AR 3/5/10

IS/SS	Ical/Ccal	LCS/ICV
	1659-1 & 1663-2	1353-2, 1324-1 & 1702-3

GC LOG SUMMARY FOR DATABATCH - /chem2/ecd1.i/HERB20100218.b/0304-1.b

	Inject Date/Time	Filename	DF	LabID	ClientID
1	04-MAR-2010 10:38	0304A001.d	1	HERB	
2	04-MAR-2010 11:14	0304A002.d	1	HERB	
3	04-MAR-2010 11:50	0304A003.d	1	HERB CCAL	
4	04-MAR-2010 12:26	0304A004.d	1	QL31MBW1	QL31MBW1
5	04-MAR-2010 13:03	0304A005.d	1	QL31LCSW1	QL31LCSW1
6	04-MAR-2010 13:39	0304A006.d	1	QL31C	R1
7	04-MAR-2010 14:15	0304A007.d	1	QL31D	C1
8	04-MAR-2010 14:51	0304A008.d	1	QK22B	R1
9	04-MAR-2010 15:27	0304A009.d	1	DRVBLK 030210	
10	04-MAR-2010 16:03	0304A010.d	1	HERB	
11	04-MAR-2010 16:39	0304A011.d	1	HERB CCAL	
12	04-MAR-2010 17:16	0304A012.d	1	QL02MBS1	QL02MBS1
13	04-MAR-2010 17:52	0304A013.d	1	QL02LCSS1	QL02LCSS1
14	04-MAR-2010 18:28	0304A014.d	1	QL02E	Horticulture-022210
15	04-MAR-2010 19:04	0304A015.d	1	HERB	
16	04-MAR-2010 19:40	0304A016.d	1	HERB CCAL	
17	04-MAR-2010 20:16	0304A017.d	1	DRVBLK 030310	
18	04-MAR-2010 20:52	0304A018.d	1		

GC LOG SUMMARY FOR DATABATCH - /chem2/ecd1.i/FPCP20100219.b/0304-1.b

	Inject Date/Time	Filename	DF	LabID	ClientID
1	04-MAR-2010 21:28	0304A019.d	1	DRVBLK 030310	
2	04-MAR-2010 21:48	0304A020.d	1	PCP	
3	04-MAR-2010 22:08	0304A021.d	1	PCP CCAL	
4	04-MAR-2010 22:28	0304A022.d	1	QL58MBW1	QL58MBW1
5	04-MAR-2010 22:47	0304A023.d	1	QL58LCSW1	QL58LCSW1
6	04-MAR-2010 23:07	0304A024.d	1	QL58A	CB31A022410Comp
7	04-MAR-2010 23:27	0304A025.d	1	QL58B	CB4857022410Comp
8	04-MAR-2010 23:47	0304A026.d	1	QL58C	CB1022410Comp
9	05-MAR-2010 00:07	0304A027.d	1	QL58CMS	CB1022410Comp MS
10	05-MAR-2010 00:27	0304A028.d	1	QL58CMSD	CB1022410Comp MSD
11	05-MAR-2010 00:46	0304A029.d	1	QL58D	CB100022410Comp
12	05-MAR-2010 01:06	0304A030.d	1	PCP	
13	05-MAR-2010 01:26	0304A031.d	1	PCP CCAL	

~~AR 3/5/2010~~

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control):

Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

GC Analyst Notes / Corrective Action Log

ARI Project ID: QL58 Client ID: Floyd-Snider

ARI SOP: **403S**(PCB) **405S**(Herbicides) **407S**(TPH-D) **409S**(HCID) **423S**(Pesticides) **Other**

Parameter(s): Cl. Phenols, PCP only, 4125, 8041

Instrument: FID-3A FID-3B FID-4A FID-4B FID-7 FID-8
ECD-1 ECD-3 ECD-4 ECD-5 ECD-6 ECD-7

Dates: Curve: 2/19/2010 Analysis Start: 3/4/2010

Endrin/DDT Breakdown <15%? YES / NO / NA

Method Blank In Control? YES / NO

ICal Meets RF & %RSD Criteria? YES / NO

LCS/LCSD Recovery In Control? YES / NO

CCal Meets RF & %RSD Criteria YES / NO

Surrogate Recovery In Control? YES / NO

Internal Standard Meets Criteria? YES / NO / NA

Special Analysis Criteria Met? YES / NO / NA

VDT

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

Additional Details on Reverse: Yes / No

Analyst Signature: _____ **Date:** 3/5/2010

Reviewer's Signature: _____ **Date:** 3/5/10

Metals Analysis
QC Summary Data

prepared
for

Floyd/Snider

Project: Lora Lake Apartments, POS-LLA

ARI JOB NO: QL58

prepared
by

Analytical Resources, Inc.

Cover Page

INORGANIC ANALYSIS DATA PACKAGE

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Floyd/Snider

PROJECT: Lora Lake Apartments

SDG: QL58

CLIENT ID	ARI ID	ARI LIMS ID	REPREP
CB31A022410Comp	QL58A	10-4796	
CB4857022410Comp	QL58B	10-4797	
CB1022410Comp	QL58C	10-4798	
CB1022410CompD	QL58CDUP	10-4798	
CB1022410CompS	QL58CSPK	10-4798	
CB100022410Comp	QL58D	10-4799	
PBW	QL58MB1	10-4799	
LCSW	QL58MB1SPK	10-4799	
CB31A022410Comp	QL58E	10-4800	
CB4857022410Comp	QL58F	10-4801	
CB1022410Comp	QL58G	10-4802	
CB1022410CompD	QL58GDUP	10-4802	
CB1022410CompS	QL58GSPK	10-4802	
CB100022410Comp	QL58H	10-4803	
PBW	QL58MB2	10-4803	
LCSW	QL58MB2SPK	10-4803	

Were ICP interelement corrections applied ?	Yes/No	YES
Were ICP background corrections applied ?	Yes/No	YES
If yes - were raw data generated before application of background corrections ?	Yes/No	NO

Comments: _____

THIS DATA PACKAGE HAS BEEN REVIEWED AND AUTHORIZED FOR RELEASE BY:

Signature: _____ Name: Jay Kuhn

Date: 3/30/10 Title: Inorganics Director

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: CB1022410Comp
DUPLICATE

Lab Sample ID: QL58C
LIMS ID: 10-4798
Matrix: Water
Data Release Authorized:
Reported: 03/30/10

QC Report No: QL58-Floyd/Snider
Project: Lora Lake Apartments
POS-LLA
Date Sampled: 02/24/10
Date Received: 02/25/10

MATRIX DUPLICATE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Duplicate	RPD	Control Limit	Q
Arsenic	200.8	1.3	1.3	0.0%	+/- 20%	

Reported in µg/L

*-Control Limit Not Met
L-RPD Invalid, Limit = Detection Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: CB1022410Comp
MATRIX SPIKE

Lab Sample ID: QL58C
LIMS ID: 10-4798
Matrix: Water
Data Release Authorized:
Reported: 03/30/10

QC Report No: QL58-Floyd/Snider
Project: Lora Lake Apartments
POS-LLA
Date Sampled: 02/24/10
Date Received: 02/25/10

MATRIX SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Spike	Spike Added	% Recovery	Q
Arsenic	200.8	1.32	26.3	25.0	99.9%	

Reported in µg/L

N-Control Limit Not Met
H-% Recovery Not Applicable, Sample Concentration Too High
NA-Not Applicable, Analyte Not Spiked
NR-Not Recovered

Percent Recovery Limits: 75-125%

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS **Sample ID: METHOD BLANK**

Lab Sample ID: QL58MB
LIMS ID: 10-4799
Matrix: Water
Data Release Authorized:
Reported: 03/30/10

QC Report No: QL58-Floyd/Snider
Project: Lora Lake Apartments
POS-LLA
Date Sampled: NA
Date Received: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	03/01/10	200.8	03/29/10	7440-38-2	Arsenic	0.2	0.2	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS **Sample ID: LAB CONTROL**

Lab Sample ID: QL58LCS
LIMS ID: 10-4799
Matrix: Water
Data Release Authorized:
Reported: 03/30/10

QC Report No: QL58-Floyd/Snider
Project: Lora Lake Apartments
POS-LLA
Date Sampled: NA
Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Arsenic	200.8	25.5	25.0	102%	

Reported in µg/L

N-Control limit not met
Control Limits: 80-120%

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: CB1022410Comp
DUPLICATE

Lab Sample ID: QL58G
LIMS ID: 10-4802
Matrix: Water
Data Release Authorized:
Reported: 03/30/10

QC Report No: QL58-Floyd/Snider
Project: Lora Lake Apartments
POS-LLA
Date Sampled: 02/24/10
Date Received: 02/25/10

MATRIX DUPLICATE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Duplicate	RPD	Control Limit	Q
Arsenic	200.8	1.0	1.0	0.0%	+/- 0.2	L

Reported in µg/L

*-Control Limit Not Met
L-RPD Invalid, Limit = Detection Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: CB1022410Comp
MATRIX SPIKE

Lab Sample ID: QL58G
LIMS ID: 10-4802
Matrix: Water
Data Release Authorized:
Reported: 03/30/10

QC Report No: QL58-Floyd/Snider
Project: Lora Lake Apartments
POS-LLA
Date Sampled: 02/24/10
Date Received: 02/25/10

MATRIX SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Spike	Spike Added	% Recovery	Q
Arsenic	200.8	0.980	25.2	25.0	96.9%	

Reported in µg/L

N-Control Limit Not Met
H-% Recovery Not Applicable, Sample Concentration Too High
NA-Not Applicable, Analyte Not Spiked

Percent Recovery Limits: 75-125%

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: METHOD BLANK

Lab Sample ID: QL58MB
LIMS ID: 10-4803
Matrix: Water
Data Release Authorized:
Reported: 03/30/10

QC Report No: QL58-Floyd/Snider
Project: Lora Lake Apartments
POS-LLA
Date Sampled: NA
Date Received: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	03/01/10	200.8	03/29/10	7440-38-2	Arsenic	0.2	0.2	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: LAB CONTROL

Lab Sample ID: QL58LCS
LIMS ID: 10-4803
Matrix: Water
Data Release Authorized:
Reported: 03/30/10

QC Report No: QL58-Floyd/Snider
Project: Lora Lake Apartments
POS-LLA
Date Sampled: NA
Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Arsenic	200.8	24.9	25.0	99.6%	

Reported in µg/L

N-Control limit not met
Control Limits: 80-120%

Calibration Verification

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Floyd/Snider

PROJECT: Lora Lake Apartments

SDG: QL58

UNITS: ug/L

ANALYTE	EL	M	RUN	ICVTV	ICV	%R	CCVTV	CCV1	%R	CCV2	%R	CCV3	%R	CCV4	%R	CCV5	%R
Arsenic	AS	PMS	MS032981	50.0	49.89	99.8	50.0	49.83	99.7	49.35	98.7	49.69	99.4	49.27	98.5	49.94	99.9

QL58.6637

Control Limits: Mercury 80-120; Other Metals 90-110

Calibration Verification

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Floyd/Snider

PROJECT: Lora Lake Apartments

SDG: QL58

UNITS: ug/L

ANALYTE	EL	M	RUN	CCVTV	CCV6	%R	CCV7	%R	CCV8	%R	CCV9	%R	CCV10	%R	CCV11	%R
Arsenic	AS	PMS	MS032981	50.0	49.10	98.2	49.00	98.0	48.59	97.2	48.79	97.6	48.89	97.8	48.88	97.8

Control Limits: Mercury 80-120; Other Metals 90-110

CRDL Standard

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Floyd/Snider

PROJECT: Lora Lake Apartments

SDG: QL58

UNITS: ug/L

ANALYTE	EL	M	RUN	CRA/I	TV	CR-1	%R	CR-2	%R	CR-3	%R	CR-4	%R	CR-5	%R	CR-6	%R
Arsenic	AS	PMS	MS032981		0.2	0.19	95.0										

Control Limits: no control limits have been established by the EPA at this time.

Calibration Blanks

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Floyd/Snider

PROJECT: Lora Lake Apartments

SDG: QL58

UNITS: ug/L

ANALYTE	EL	METH	RUN	CRDL	IDL	ICB	C	CCB1	C	CCB2	C	CCB3	C	CCB4	C	CCB5	C
Arsenic	AS	PMS	MS032981	10.0	0.2	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U

Calibration Blanks

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Floyd/Snider

PROJECT: Lora Lake Apartments

SDG: QL58

UNITS:ug/L

ANALYTE	EL	METH	RUN	CRDL	IDL	CCB6	C	CCB7	C	CCB8	C	CCB9	C	CCB10	C	CCB11	C
Arsenic	AS	PMS	MS032981	10.0	0.2	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U

ICP Interference Check Sample

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Floyd/Snider

ICS SOURCE: I.V.

PROJECT: Lora Lake Apartments

RUNID: MS032981

SDG: QL58

INSTRUMENT ID: PE ELAN 6000

UNITS: ug/L

ANALYTE	ICSA TV	ICSAB TV	ICSA1	ICSAB1	%R	ICSA2	ICSAB2	%R	ICSA3	ICSAB3	%R
Arsenic		20	0.0	19.9	**99.5**						
Cadmium		20	0.0	20.4	**102.0**						
Chromium		20	0.5	20.1	**100.5**						
Cobalt		20	0.0	19.5	**97.5**						
Copper		20	0.3	19.8	**99.0**						
Lead			0.1	0.1							
Manganese		20	0.2	19.6	**98.0**						
Molybdenum	400	400	417.1	425.3	**106.3**						
Nickel		20	0.4	19.9	**99.5**						
Selenium			-0.1	-0.1							
Silver		20	0.0	18.5	**92.5**						
Vanadium			0.0	-0.5							
Zinc		20	1.0	20.1	**100.5**						

QL58 9821-2

IDLs and ICP Linear Ranges

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Floyd/Snider

PROJECT: Lora Lake Apartments

SDG: QL58 UNITS: ug/L

ANALYTE	EL	METH	INSTRUMENT	WAVELENTH (nm)	GFA BACK-GROUND	CLP CRDL	RL	RL DATE	ICP LINEAR RANGE (ug/L)	ICP LR DATE
Arsenic	AS	PMS	PE ELAN 6000 MS	0.00		10	0.2	4/1/2009		

Preparation Log

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Floyd/Snider

PROJECT: Lora Lake Apartments

SDG: QL58

ANALYSIS METHOD: PMS

ARI PREP CODE: REN

PREPDATE: 3/1/2010

CLIENT ID	ARI ID	MASS (g)	INITIAL VOLUME (mL)	FINAL VOLUME (mL)
CB31A022410Comp	QL58A	0.000	50.0	25.0
CB4857022410Comp	QL58B	0.000	50.0	25.0
CB1022410Comp	QL58C	0.000	50.0	25.0
CB1022410CompD	QL58CDUP	0.000	50.0	25.0
CB1022410CompS	QL58CSPK	0.000	50.0	25.0
CB100022410Comp	QL58D	0.000	50.0	25.0
CB31A022410Comp	QL58E	0.000	50.0	25.0
CB4857022410Comp	QL58F	0.000	50.0	25.0
CB1022410Comp	QL58G	0.000	50.0	25.0
CB1022410CompD	QL58GDUP	0.000	50.0	25.0
CB1022410CompS	QL58GSPK	0.000	50.0	25.0
CB100022410Comp	QL58H	0.000	50.0	25.0
PBW	QL58MB1	0.000	50.0	25.0
LCSW	QL58MB1SPK	0.000	50.0	25.0
PBW	QL58MB2	0.000	50.0	25.0
LCSW	QL58MB2SPK	0.000	50.0	25.0

Analysis Run Log

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Floyd/Snider

PROJECT: Lora Lake Apartments | INSTRUMENT ID: PE ELAN 6000 MS | START DATE: 3/29/2010

SDG: QL58 | RUNID: MS032981 | METHOD: PMS | END DATE: 3/30/2010

CLIENT ID	ARI ID	DIL.	TIME	%R	AG	AL	AS	B	BA	BE	CA	CD	CO	CR	CU	FE	HG	K	MG	MN	MO	NA	NI	PB	SB	SE	SI	SN	TI	TL	U	V	ZN
S0	S0	1.00	12020				X																										
S1	S1	1.00	12090				X																										
S2	S2	1.00	12170				X																										
S3	S3	1.00	12250				X																										
S4	S4	1.00	12330				X																										
ZZZZZZ	Rinse Sampl	1.00	12410																														
S0	S0	1.00	12480				X																										
ICV	MICV	1.00	12560				X																										
ICB	ICB	1.00	13030				X																										
CCV	MCCV1	1.00	13110				X																										
CCB	CCB1	1.00	13180				X																										
CRI	MCRI	1.00	13260				X																										
ICSA	ICSAI	1.00	13330				X																										
ICSAB	ICSABI	1.00	13410				X																										
ZZZZZZ	LC	1.00	13480																														
ZZZZZZ	LR200	1.00	13560																														
ZZZZZZ	LR300	1.00	14040																														
CCV	MCCV2	1.00	14120				X																										
CCB	CCB2	1.00	14190				X																										
ZZZZZZ	QI92MB1	2.00	14300																														
ZZZZZZ	QI92MB2	2.00	14370																														
ZZZZZZ	QI92MB2SPK	2.00	14440																														
ZZZZZZ	QI92MB1SPK	2.00	14500																														
ZZZZZZ	QM57REF1	20.00	14570																														
ZZZZZZ	QJ89I	2.00	15040																														
ZZZZZZ	QI92B-L	50.00	15110																														
ZZZZZZ	QI92B	10.00	15180																														
ZZZZZZ	QI92BDUP	10.00	15250																														
ZZZZZZ	QI92BSPK	10.00	15310																														
CCV	MCCV3	1.00	15380				X																										
CCB	CCB3	1.00	15460				X																										
ZZZZZZ	QI92E	5.00	15530																														
ZZZZZZ	QI92J	5.00	16000																														
ZZZZZZ	QI95A	2.00	16080																														
ZZZZZZ	QI95B	5.00	16150																														

FORM XIV

QL58 06315

Analysis Run Log

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Floyd/Snider

PROJECT: Lora Lake Apartments | INSTRUMENT ID: PE ELAN 6000 MS | START DATE: 3/29/2010

SDG: QL58 | RUNID: MS032981 | METHOD: PMS | END DATE: 3/30/2010

CLIENT ID	ARI ID	DIL.	TIME	%R	AG	AL	AS	B	BA	BE	CA	CD	CO	CR	CU	FE	HG	K	MG	MN	MO	NA	NI	PB	SB	SE	SI	SN	TI	TL	U	V	ZN
ZZZZZZ	QI95G	5.00	16220																														
ZZZZZZ	QI95H	2.00	16300																														
ZZZZZZ	QM99A	2.00	16370																														
ZZZZZZ	QM99B	2.00	16440																														
ZZZZZZ	QM99C	2.00	16510																														
ZZZZZZ	QM99D	2.00	16570																														
CCV	MCCV4	1.00	17040				X																										
CCB	CCB4	1.00	17120				X																										
ZZZZZZ	QJ39MB1	2.00	17310																														
ZZZZZZ	QM99MB	2.00	17370																														
ZZZZZZ	QM99MBSPK	2.00	17440																														
ZZZZZZ	QJ39MB1SPK	2.00	17510																														
ZZZZZZ	QJ39B-L	10.00	17590																														
ZZZZZZ	QJ39B	2.00	18070																														
ZZZZZZ	QJ39BDUP	2.00	18140																														
ZZZZZZ	QJ39BSPK	2.00	18200																														
ZZZZZZ	ZZZZZZ	2.00	18270																														
ZZZZZZ	QJ39C	2.00	18340																														
CCV	MCCV5	1.00	18410				X																										
CCB	CCB5	1.00	18480				X																										
ZZZZZZ	QJ39D	2.00	18560																														
ZZZZZZ	QJ39E	2.00	19020																														
ZZZZZZ	QJ39F	2.00	19090																														
ZZZZZZ	QJ39G	2.00	19170																														
ZZZZZZ	QJ46B	2.00	19250																														
ZZZZZZ	QJ46C	2.00	19320																														
ZZZZZZ	QJ46D	2.00	19380																														
ZZZZZZ	QJ46E	2.00	19450																														
ZZZZZZ	QJ46F	2.00	19520																														
ZZZZZZ	QJ46G	2.00	19590																														
CCV	MCCV6	1.00	20060				X																										
CCB	CCB6	1.00	20130				X																										
ZZZZZZ	QJ17MB1	2.00	20210																														
ZZZZZZ	QJ17MB2	2.00	20280																														
ZZZZZZ	QJ17MB2SPK	2.00	20340																														

FORM XIV

QL58 09529

Analysis Run Log

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Floyd/Snider

PROJECT: Lora Lake Apartments | INSTRUMENT ID: PE ELAN 6000 MS | START DATE: 3/29/2010

SDG: QL58 | RUNID: MS032981 METHOD: PMS | END DATE: 3/30/2010

CLIENT ID	ARI ID	DIL.	TIME	%R	AG	AL	AS	B	BA	BE	CA	CD	CO	CR	CU	FE	HG	K	MG	MN	MO	NA	NI	PB	SB	SE	SI	SN	TI	TL	U	V	ZN
ZZZZZZ	QJ17MB1SPK	2.00	20420																														
ZZZZZZ	QJ17A-L	25.00	20500																														
ZZZZZZ	QJ17A	5.00	20570																														
ZZZZZZ	QJ17ADUP	5.00	21030																														
ZZZZZZ	QJ17ASPK	5.00	21100																														
ZZZZZZ	ZZZZZZ	5.00	21170																														
ZZZZZZ	QJ17B	2.00	21240																														
CCV	MCCV7	1.00	21300				X																										
CCB	CCB7	1.00	21380				X																										
ZZZZZZ	QJ17K-L	25.00	21450																														
ZZZZZZ	QJ17K	5.00	21520																														
ZZZZZZ	QJ17KDUP	5.00	21590																														
ZZZZZZ	QJ17KSPK	5.00	22070																														
ZZZZZZ	ZZZZZZ	5.00	22150																														
ZZZZZZ	QJ17C	10.00	22210																														
ZZZZZZ	QJ17D	20.00	22280																														
ZZZZZZ	QJ17E	2.00	22350																														
ZZZZZZ	QJ17F	2.00	22420																														
ZZZZZZ	QJ17G	2.00	22490																														
CCV	MCCV8	1.00	22560				X																										
CCB	CCB8	1.00	23030				X																										
ZZZZZZ	QJ17H	20.00	23100																														
ZZZZZZ	QJ17I	2.00	23170																														
ZZZZZZ	QJ17L	2.00	23240																														
ZZZZZZ	QJ17M	10.00	23320																														
ZZZZZZ	QJ17N	2.00	23390																														
ZZZZZZ	QJ17O	2.00	23460																														
ZZZZZZ	QJ17P	2.00	23530																														
ZZZZZZ	QJ17Q	2.00	00000																														
CB31A022410Comp	QL58A	2.00	00070				X																										
CB4857022410Comp	QL58B	2.00	00130				X																										
CCV	MCCV9	1.00	00200				X																										
CCB	CCB9	1.00	00280				X																										
PBW	QL58MB1	2.00	00350				X																										
PBW	QL58MB2	2.00	00420				X																										

FORM XIV

QL58 09321

Analysis Run Log

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Floyd/Snider

PROJECT: Lora Lake Apartments | INSTRUMENT ID: PE ELAN 6000 MS | START DATE: 3/29/2010

SDG: QL58 | RUNID: MS032981 | METHOD: PMS | END DATE: 3/30/2010

CLIENT ID	ARI ID	DIL.	TIME	%R	AG	AL	AS	B	BA	BE	CA	CD	CO	CR	CU	FE	HG	K	MG	MN	MO	NA	NI	PB	SB	SE	SI	SN	TI	TL	U	V	ZN
LCSW	QL58MB2SPK	2.00	00490				X																										
LCSW	QL58MB1SPK	2.00	00570				X																										
CB1022410CompD	QL58CDUP	2.00	01040				X																										
CB1022410Comp	QL58C	2.00	01110				X																										
CB1022410CompS	QL58CSPK	2.00	01180				X																										
CB1022410CompD	QL58GDUP	2.00	01250				X																										
CB1022410Comp	QL58G	2.00	01310				X																										
CB1022410CompS	QL58GSPK	2.00	01380				X																										
CCV	MCCV10	1.00	01450				X																										
CCB	CCB10	1.00	01520				X																										
ZZZZZZ	QN08MB1	2.00	02000																														
ZZZZZZ	QN08MB2	2.00	02070																														
ZZZZZZ	QN08MB2SPK	2.00	02130																														
ZZZZZZ	QN08MB1SPK	2.00	02210																														
CB100022410Comp	QL58D	2.00	02290				X																										
CB31A022410Comp	QL58E	2.00	02360				X																										
CB4857022410Comp	QL58F	2.00	02430				X																										
CB100022410Comp	QL58H	2.00	02490				X																										
ZZZZZZ	QN08A	2.00	02560																														
ZZZZZZ	QN08B	2.00	03030																														
CCV	MCCV11	1.00	03100				X																										
CCB	CCB11	1.00	03170				X																										

QL58 0036

Metals Analysis
Sample Data

prepared
for

Floyd/Snider

Project: Lora Lake Apartments, POS-LLA

ARI JOB NO: QL58

prepared
by

Analytical Resources, Inc.

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: CB31A022410Comp
SAMPLE

Lab Sample ID: QL58A
LIMS ID: 10-4796
Matrix: Water
Data Release Authorized:
Reported: 03/30/10

QC Report No: QL58-Floyd/Snider
Project: Lora Lake Apartments
POS-LLA
Date Sampled: 02/24/10
Date Received: 02/25/10

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	03/01/10	200.8	03/29/10	**7440-38-2**	**Arsenic**	0.2	**1.2**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: CB4857022410Comp
SAMPLE

Lab Sample ID: QL58B
LIMS ID: 10-4797
Matrix: Water
Data Release Authorized:
Reported: 03/30/10

QC Report No: QL58-Floyd/Snider
Project: Lora Lake Apartments
POS-LLA
Date Sampled: 02/24/10
Date Received: 02/25/10

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	03/01/10	200.8	03/29/10	**7440-38-2**	**Arsenic**	0.2	**1.2**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: CB1022410Comp
SAMPLE

Lab Sample ID: QL58C
LIMS ID: 10-4798
Matrix: Water
Data Release Authorized:
Reported: 03/30/10

QC Report No: QL58-Floyd/Snider
Project: Lora Lake Apartments
POS-LLA
Date Sampled: 02/24/10
Date Received: 02/25/10

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	03/01/10	200.8	03/29/10	**7440-38-2**	**Arsenic**	0.2	**1.3**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: CB100022410Comp
SAMPLE

Lab Sample ID: QL58D
LIMS ID: 10-4799
Matrix: Water
Data Release Authorized:
Reported: 03/30/10

QC Report No: QL58-Floyd/Snider
Project: Lora Lake Apartments
POS-LLA
Date Sampled: 02/24/10
Date Received: 02/25/10

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	03/01/10	200.8	03/29/10	**7440-38-2**	**Arsenic**	0.2	**1.2**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: CB31A022410Comp
SAMPLE

Lab Sample ID: QL58E
LIMS ID: 10-4800
Matrix: Water
Data Release Authorized:
Reported: 03/30/10

QC Report No: QL58-Floyd/Snider
Project: Lora Lake Apartments
POS-LLA
Date Sampled: 02/24/10
Date Received: 02/25/10

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	03/01/10	200.8	03/29/10	**7440-38-2**	**Arsenic**	0.2	0.6	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: CB4857022410Comp
SAMPLE

Lab Sample ID: QL58F
LIMS ID: 10-4801
Matrix: Water
Data Release Authorized:
Reported: 03/30/10

QC Report No: QL58-Floyd/Snider
Project: Lora Lake Apartments
POS-LLA
Date Sampled: 02/24/10
Date Received: 02/25/10

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	03/01/10	200.8	03/29/10	**7440-38-2**	**Arsenic**	0.2	**0.5**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: CB1022410Comp
SAMPLE

Lab Sample ID: QL58G
LIMS ID: 10-4802
Matrix: Water
Data Release Authorized:
Reported: 03/30/10

QC Report No: QL58-Floyd/Snider
Project: Lora Lake Apartments
POS-LLA
Date Sampled: 02/24/10
Date Received: 02/25/10

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	03/01/10	200.8	03/29/10	**7440-38-2**	**Arsenic**	0.2	**1.0**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: CB100022410Comp
SAMPLE

Lab Sample ID: QL58H
LIMS ID: 10-4803
Matrix: Water
Data Release Authorized:
Reported: 03/30/10

QC Report No: QL58-Floyd/Snider
Project: Lora Lake Apartments
POS-LLA
Date Sampled: 02/24/10
Date Received: 02/25/10

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	03/01/10	200.8	03/29/10	**7440-38-2**	**Arsenic**	0.2	**0.5**	

U-Analyte undetected at given RL
RL-Reporting Limit

Metals Analysis
Instrument Raw Data and Logs

prepared
for

Floyd/Snider

Project: Lora Lake Apartments, POS-LLA

ARI JOB NO: QL58

prepared
by

Analytical Resources, Inc.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

ICP/MS SAMPLE RUN LOG

PE Sciex ELAN 6000 Serial No. Z13960660

Analysis Date: 3.29.10 **Analyst:** BW **Page:** 1 of 6

All corrections made by analyst unless otherwise noted. BW 3.29.10

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		Std 0			
		1			
		2			
		3			
		4			
		rinse sample			
		std 0			
		ICV			
		ICB			
		CCV1			
		CCB1			
		low check			
		ICSA			
		ICSA			
		LC			
		LR200			
		LR300			
		CCV2			
		CCB2			
		QI92 MB1	REN	2	NO Be, Pb
		MB2			
		MB2sd			
		MB1sd			
		QM57 Ref1	SWN	20	

Analytical Resources, Incorporated
Analytical Chemists and Consultants

ICP/MS SAMPLE RUN LOG

PE Sciex ELAN 6000 Serial No. Z13960660

Analysis Date: 3.29.10 **Analyst:** BW **Page:** 2 of 6

All corrections made by analyst unless otherwise noted. BW 3.29.10

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		~~QI92~~ QJ89 I	RGN	2	Zn
		QI92 B-L		50 ✓	no Be Pb
		B		10	
		Bdup		✓	
		Bspk		✓	
		CCV 3			^{53}Cr high
		CCB3			V2 ^{53}Cr ^{62}Ni high
		QI92 E	RGN	5	no Be, Pb
		J			
		QI95 A		2	
		B		5	
		G			
		H		2	
		QM99 A			
		B			
		C			
		D			
		CCV4			
		CCB4			V2 ^{53}Cr ^{62}Ni high
		QJ39 MB1	RGN	2	
		QM99 MB		✓	
		MBspk		✓	
		QJ39 MB5pk		✓	
		B-L		10 ✓	rerun Cr

Analytical Resources, Incorporated
Analytical Chemists and Consultants

ICP/MS SAMPLE RUN LOG

PE Sciex ELAN 6000 Serial No. Z13960660

Analysis Date: 3.29.10 **Analyst:** BW **Page:** 3 of 6

All corrections made by analyst unless otherwise noted. BW 3.29.10

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		QJ39 B	REW	2	rerun Cr 1/5
		Bdup			
		Bspk			
2		~~ZZZZZZ Bpost~~			
		C			
		CCV5			^{62}Ni high
		CCB5			V2 ^{53}Cr ^{62}Ni high
		QJ39 D	REW	2	Sc high - rerun Cr
		E			
		F			
		G			
		QJ46 B			
		C			
		D			
		E			
		F			
		G			
		CCV6			^{62}Ni high
		CCB6			V2 ^{53}Cr ^{62}Ni high
		QJ17 MB1	REW	2	
		MB2			
		MB2spk			
		MB1spk			
		A-L		25	rerun As

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ICP/MS SAMPLE RUN LOG

PE Sciex ELAN 6000 Serial No. Z13960660

Analysis Date: 3.29.10 **Analyst:** RLW **Page:** 4 of 6

All corrections made by analyst unless otherwise noted. RLW 3.30.10

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		QJ17 A	REN	5	reran As
		Adp			
		Asd			
2		~~ZZZZZZ~~ ~~ApostZ~~			
		B		2	reran As
		CCV7			^{62}Ni high
		CCB7			V2 ^{53}Cr ^{62}Ni As2 ^{78}Se high
		QJ17 K-L	REN	25	
		K		5	
		Kdp			
		Ksd			
2		~~ZZZZZZZ~~ ~~KpostZ~~			
		C		10	reran As
		D		20	
		E		2	reran As
		F			
		G			
		CCV8			^{62}Ni high
		CCB8			V2 ^{53}Cr ^{62}Ni As2 ^{78}Se high
		QJ17 H	REN	20	
		I		2	reran As
		L			
		M		10	
		N		2	

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ICP/MS SAMPLE RUN LOG

PE Sciex ELAN 6000 Serial No. Z13960660

Analysis Date: 3.29.10 **Analyst:** BW **Page:** 5 of 6

All corrections made by analyst unless otherwise noted. BW 3.30.10

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		QJ17 O	REN	~~2~~ 2	rerun As
		P			
		Q			rerun As
		QL58 A			
		B			
		CCV9			^{62}Ni high
		CCB9			V2 ^{53}Cr ^{62}Ni high
		QL58 MB1	REN	2	
		MB2			
		MB2sph			
		MB1sph			
		Cdup		✓	
		C			
		Csph		✓	
		Gdup		✓	
		G			
		Gsph		✓	
		CCV10			
		CCB10			V2 ^{53}Cr ^{62}Ni high
		QN08 MB1	REN	2	
		MB2		✓	
		MB2sph			
		MB1sph		✓	
		QL58 D			

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Analytical Chemists and Consultants

ICP/MS SAMPLE RUN LOG

PE Sciex ELAN 6000 Serial No. Z13960660

Analysis Date: 3.29.10 **Analyst:** BLW **Page:** 6 of 6

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		QL58 E	REN	2	
		F			
		H			
		QN08 A			
		B			
		CCV11			
		CCB11			V2 53Cr 62Ni high end package
		QN66 MB	REN	2	
		QM77 MB			
		QN57 MB			
		MBSph			
		QM77 MBSph			
		QN66 MBSph			
		B			
		QN57 A			
		QM77 A			
		B			
		CCV12			
		CCB12			V2 53Cr 62Ni high
		5% HNO_3			
		DI rinse			
		BLW	3.30		

3/29/10

ANALYTICAL RESOURCES INCORPORATED

Metals Data Review Checklist

Method: ICP ICP-MS GFA CVA **Analysis Date:** 3.29.10

	Analyst 3w3.30	Peer 3/30.10	Comment
Logbook:			
Analyst, Date, Method info	✓	✓	
Sample ID's	✓	✓	
Standard/QC solution ID's recorded	✓	✓	
Prep codes	✓	✓	
Dilution factors	✓	✓	
Crossouts/Corrections/Deletions	✓	✓	
Calibration:			
Blank & Standard intensities	✓	✓	
Standard deviations	✓	✓	
Curve fit	✓	✓	
Calibration Verification:			
ICV/CCV	✓	✓	see log
ICB/CCB	✓	✓	↓
Samples:			
RSD's & SD's	✓	✓	
Internal Standards	✓	✓	see log
Carry-over	✓	✓	
Method QC:			
CRI/CRA	✓	✓	
ICSA/ICSAB	✓	✓	
Post Spikes/Serial Dilutions	✓	✓	
Analytic Spikes	—	—	
Matrix QC:			
SRM/LCS	✓	✓	
Matrix Spikes	✓	✓	
Matrix Duplicates	✓	✓	
Method Blanks	✓	✓	
Data Distribution:			
Requested elements/isotope identified	✓	✓	
Correct samples identified for distribution	✓	✓	
Raw data match distributed data	✓	✓	
Data filename correct	✓	✓	
Necessary Analysts Notes and CAF's	—	✓	

Instrument Tuning Report

1st

File Name: 2008.tun
File Path: c:\elandata\Tuning

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width	Custom Res.
Be	9.012	9.078	2038	2164	0.713	
Mg	23.985	23.929	5635	2282	0.688	
Co	58.933	58.929	14144	2558	0.671	
In	114.904	114.878	27761	3007	0.688	
Pb	207.977	207.926	50413	3777	0.681	

Instrument Tuning Report

2nd

File Name: 2008.tun
File Path: c:\elandata\Tuning

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width	Custom Res.
Be	9.012	8.977 ✓	2030	2164	0.738	
Mg	23.985	24.029 ✓	5645	2282	0.681	
Co	58.933	58.929 ✓	14142	2558	0.669	
In	114.904	114.928 ✓	27766	3007	0.685	
Pb	207.977	207.976 ✓	50412	3777	0.685	

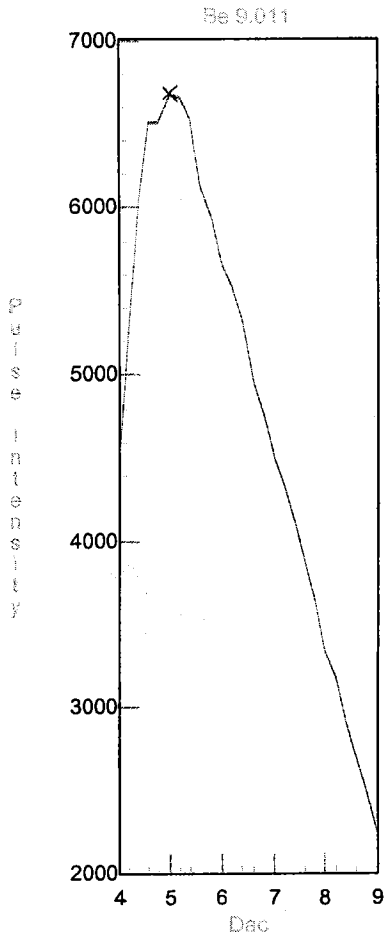
Instrument Tuning Report

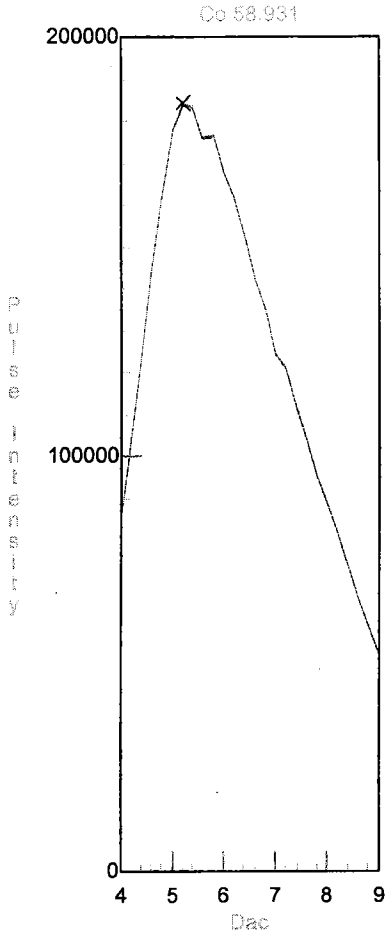
3rd

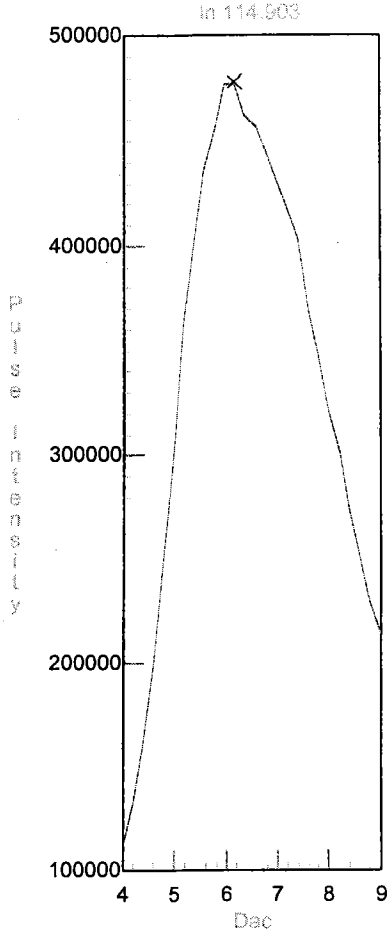
File Name: 2008.tun
File Path: c:\elandata\Tuning

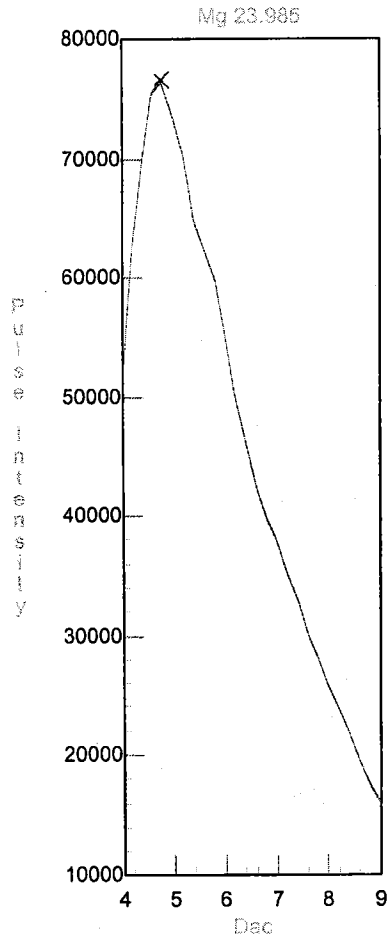
Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width	Custom Res.
Be	9.012	8.977	2030	2164	0.699	
Mg	23.985	24.029	5645	2282	0.685	✓
Co	58.933	58.929	14142	2555	0.677	
In	114.904	114.928	27766	3007	0.684	
Pb	207.977	207.976	50412	3777	0.690	

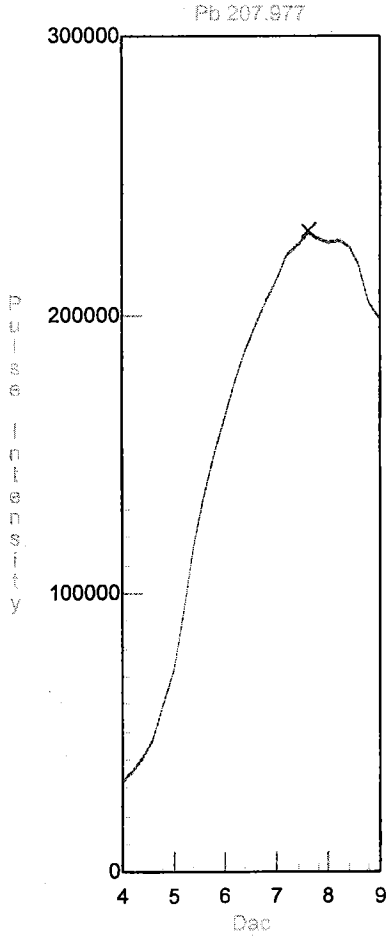
3.29.10

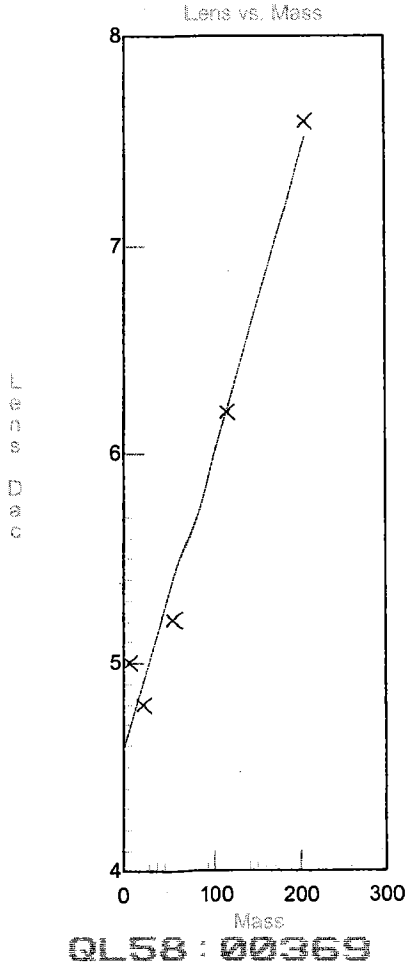












Daily Performance Report

Sample ID: Sample
Sample Date/Time: Monday, March 29, 2010 11:27:08
Sample Description:
Sample File: 1120.sam
Method File: c:\elandata\Method\aridailyperf.mth
Dataset File: c:\elandata\Dataset\daily performance\Sample.6649
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Number of Replicates: 5
Dual Detector Mode: Pulse

ne b 0.98

Summary

	Analyte	Mass	Net Intens. Mean	Net Intens. SD	Net Intens. RSD
	Mg	24	64044.073	532.250	0.831
	In	115	407082.524	2021.613	0.497
	Pb	208	198193.189	1227.689	0.619
⌈>	Ba	138	260667.574	2482.427	0.952
⌊	Ba++	69	0.017	0.000	0.552
⌈>	Ce	140	314564.489	1534.403	0.488
⌊	CeO	156	0.027	0.000	1.617
	Bkgd	220	3.250	1.118	34.401

Daily Performance Report

Sample ID: Sample
Sample Date/Time: Monday, March 29, 2010 11:55:46
Sample Description:
Sample File: 1120.sam
Method File: c:\elandata\Method\aridailyperf.mth
Dataset File: c:\elandata\Dataset\daily performance\Sample.6652
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Number of Replicates: 5
Dual Detector Mode: Pulse

neb 0.93

after dual

Summary

	Analyte	Mass	Net Intens. Mean	Net Intens. SD	Net Intens. RSD
	Mg	24	52976.949	307.237	0.580
	In	115	358742.974	3034.980	0.846
	Pb	208	184638.057	1619.410	0.877
⌈>	Ba	138	246059.147	2188.782	0.890
⌊	Ba++	69	0.013	0.000	1.435
⌈>	Ce	140	293427.602	2176.842	0.742
⌊	CeO	156	0.021	0.000	1.308
	Bkgd	220	8.501	3.236	38.065

ICP-MS Quantitative Analysis - Summary Report

Sample ID: Blank
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, March 29, 2010 12:02:01
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
⌈>	Li	6		ug/L				333489	1
⌊	Be	9		ug/L				10	6
	C	13		mg/L				6329	0
	Cl	37		mg/L				3042244	0
⌈>	Sc	45		ug/L				224839	0
|	V-1	51		ug/L				1092	10
|	V	51		ug/L				4130	2
|	Cr	52		ug/L				4133	1
|	Cr	53		ug/L				1438	0
|	Mn	55		ug/L				448	8
⌊	Co	59		ug/L				141	10
⌈>	Ge	72		ug/L				310039	0
|	Ni	60		ug/L				85	10
|	Ni	62		ug/L				47	14
|	Cu	63		ug/L				350	10
|	Cu	65		ug/L				177	12
|	Zn	66		ug/L				374	8
|	Zn	67		ug/L				171	10
|	Zn	68		ug/L				4651	1
|	As-1	75		ug/L				315	6
|	As	75		ug/L				6922	0
|	Se	82		ug/L				-1	1137
|	Se	78		ug/L				6985	0
⌊	Mo	98		ug/L				96	9
	Y	89		ug/L				254240	0
	Kr	83		ug/L				159	2
⌈>	In	115		ug/L				340398	0
|	Ag	107		ug/L				157	9
|	Cd	111		ug/L				150	5
|	Cd	114		ug/L				31	25
|	Sb	121		ug/L				242	10
|	Sb	123		ug/L				179	22
|	Ba	135		ug/L				33	7
⌊	Ba	137		ug/L				57	21
⌈>	Tb	159		ug/L				353731	0
|	Tl	205		ug/L				354	25
|	Pb	208		ug/L				1102	15
|	Bi	209		ug/L				283038	1
|	Th	232		ug/L				685	27
⌊	U	238		ug/L				192	22

ICP-MS Quantitative Analysis - Summary Report

Sample ID: Standard 1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, March 29, 2010 12:09:47
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			333489	343608	1
[	Be	9	10.000	ug/L	0.273	2	10	4266	1
	C	13		mg/L			6329	6291	1
	Cl	37		mg/L			3042244	3059404	0
[>	Sc	45		ug/L			224839	227232	1
[	V-1	51	10.000	ug/L	0.122	1	1092	105034	0
[	V	51	10.000	ug/L	0.133	1	4130	109687	0
[	Cr	52	10.000	ug/L	0.118	1	4133	96344	1
[	Cr	53	10.000	ug/L	0.136	1	1438	12375	0
[	Mn	55	10.000	ug/L	0.149	1	448	152013	0
[	Co	59	10.000	ug/L	0.145	1	141	118835	0
[>	Ge	72		ug/L			310039	318454	0
[	Ni	60	10.000	ug/L	0.163	1	85	25970	2
[	Ni	62	10.000	ug/L	0.119	1	47	3894	1
[	Cu	63	10.000	ug/L	0.038	0	350	60499	0
[	Cu	65	10.000	ug/L	0.105	1	177	29047	0
[	Zn	66	10.000	ug/L	0.138	1	374	19827	2
[	Zn	67	10.000	ug/L	0.155	1	171	3458	2
[	Zn	68	10.000	ug/L	0.190	1	4651	18515	1
[	As-1	75	10.000	ug/L	0.096	0	315	18461	0
[	As	75	10.000	ug/L	0.169	1	6922	25116	0
[	Se	82	10.000	ug/L	0.224	2	-1	1687	2
[	Se	78	10.000	ug/L	0.250	2	6985	11338	0
[	Mo	98	10.000	ug/L	0.062	0	96	62035	0
	Y	89		ug/L			254240	257888	1
	Kr	83		ug/L			159	166	0
[>	In	115		ug/L			340398	343695	0
[	Ag	107	10.000	ug/L	0.101	1	157	109322	0
[	Cd	111	10.000	ug/L	0.056	0	150	28012	0
[	Cd	114	10.000	ug/L	0.027	0	31	65466	0
[	Sb	121	10.000	ug/L	0.120	1	242	102329	0
[	Sb	123	10.000	ug/L	0.186	1	179	77515	1
[	Ba	135	10.000	ug/L	0.157	1	33	21853	1
[	Ba	137	10.000	ug/L	0.093	0	57	37226	0
[>	Tb	159		ug/L			353731	358291	1
[	Tl	205	10.000	ug/L	0.219	2	354	250233	1
[	Pb	208	10.000	ug/L	0.142	1	1102	339820	0
[	Bi	209		ug/L			283038	289409	0
[	Th	232	10.000	ug/L	0.159	1	685	377022	0
[	U	238	10.000	ug/L	0.256	2	192	398134	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: Standard 2
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, March 29, 2010 12:17:35
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			333489	342543	0
[	Be	9	20.055	ug/L	0.169	0	10	8615	0
	C	13		mg/L			6329	5615	0
	Cl	37		mg/L			3042244	3050730	0
[>	Sc	45		ug/L			224839	228662	0
|	V-1	51	19.926	ug/L	0.140	0	1092	206496	0
|	V	51	19.950	ug/L	0.105	0	4130	213920	0
|	Cr	52	19.953	ug/L	0.083	0	4133	187563	0
|	Cr	53	20.022	ug/L	0.143	0	1438	23568	1
|	Mn	55	19.982	ug/L	0.297	1	448	304099	0
[	Co	59	19.977	ug/L	0.175	0	141	237681	0
[>	Ge	72		ug/L			310039	320466	1
|	Ni	60	19.970	ug/L	0.182	0	85	51782	0
|	Ni	62	19.964	ug/L	0.601	3	47	7717	1
|	Cu	63	19.992	ug/L	0.185	0	350	121155	1
|	Cu	65	19.998	ug/L	0.192	0	177	58258	1
|	Zn	66	20.068	ug/L	0.201	0	374	40192	1
|	Zn	67	20.053	ug/L	0.483	2	171	6869	1
|	Zn	68	20.026	ug/L	0.460	2	4651	32635	0
|	As-1	75	20.002	ug/L	0.308	1	315	36848	0
|	As	75	20.001	ug/L	0.342	1	6922	43405	0
|	Se	82	19.996	ug/L	0.351	1	-1	3393	0
|	Se	78	19.987	ug/L	0.522	2	6985	15572	0
[	Mo	98	19.977	ug/L	0.252	1	96	124049	0
	Y	89		ug/L			254240	258680	1
	Kr	83		ug/L			159	165	3
[>	In	115		ug/L			340398	343450	2
|	Ag	107	20.129	ug/L	0.427	2	157	225468	0
|	Cd	111	20.026	ug/L	0.238	1	150	56183	1
|	Cd	114	20.007	ug/L	0.266	1	31	131022	1
|	Sb	121	20.008	ug/L	0.325	1	242	204622	0
|	Sb	123	20.007	ug/L	0.292	1	179	154988	0
|	Ba	135	20.036	ug/L	0.294	1	33	44026	0
[	Ba	137	20.028	ug/L	0.508	2	57	74846	0
[>	Tb	159		ug/L			353731	359965	0
|	Tl	205	19.951	ug/L	0.156	0	354	496476	0
|	Pb	208	19.973	ug/L	0.212	1	1102	677107	0
|	Bi	209		ug/L			283038	289091	1
|	Th	232	19.996	ug/L	0.075	0	685	756211	0
[	U	238	19.997	ug/L	0.251	1	192	799310	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: Standard 3
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, March 29, 2010 12:25:23
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			333489	337038	1
[	Be	9	49.821	ug/L	0.575	1	10	20672	0
	C	13		mg/L			6329	4076	1
	Cl	37		mg/L			3042244	3086235	1
[>	Sc	45		ug/L			224839	225652	0
[	V-1	51	49.971	ug/L	0.195	0	1092	507950	1
[	V	51	49.969	ug/L	0.263	0	4130	520925	1
[	Cr	52	49.916	ug/L	0.159	0	4133	453038	1
[	Cr	53	49.911	ug/L	0.555	1	1438	55342	1
[	Mn	55	49.995	ug/L	0.174	0	448	749830	0
[	Co	59	50.042	ug/L	0.238	0	141	589865	1
[>	Ge	72		ug/L			310039	318373	0
[	Ni	60	49.685	ug/L	0.549	1	85	123960	0
[	Ni	62	49.904	ug/L	0.690	1	47	18915	1
[	Cu	63	49.774	ug/L	0.547	1	350	292556	1
[	Cu	65	49.914	ug/L	0.558	1	177	142964	1
[	Zn	66	49.774	ug/L	0.250	0	374	96301	0
[	Zn	67	49.451	ug/L	0.808	1	171	15720	1
[	Zn	68	49.835	ug/L	0.237	0	4651	72466	0
[	As-1	75	49.867	ug/L	0.314	0	315	89605	0
[	As	75	49.907	ug/L	0.250	0	6922	96152	0
[	Se	82	49.823	ug/L	0.155	0	-1	8257	0
[	Se	78	49.997	ug/L	0.240	0	6985	27925	0
[	Mo	98	49.967	ug/L	0.586	1	96	307095	1
	Y	89		ug/L			254240	255231	0
	Kr	83		ug/L			159	170	2
[>	In	115		ug/L			340398	339414	0
[	Ag	107	50.357	ug/L	0.542	1	157	577960	0
[	Cd	111	49.848	ug/L	0.956	1	150	135935	1
[	Cd	114	49.920	ug/L	0.218	0	31	320509	0
[	Sb	121	50.008	ug/L	0.484	0	242	505583	0
[	Sb	123	49.935	ug/L	0.633	1	179	379584	0
[	Ba	135	50.044	ug/L	0.338	0	33	109126	0
[	Ba	137	49.996	ug/L	0.750	1	57	184535	1
[>	Tb	159		ug/L			353731	356021	0
[	Tl	205	49.880	ug/L	0.716	1	354	1212544	0
[	Pb	208	49.883	ug/L	0.243	0	1102	1651595	0
[	Bi	209		ug/L			283038	279487	0
[	Th	232	49.897	ug/L	0.077	0	685	1846443	0
[	U	238	49.931	ug/L	0.453	0	192	1960236	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: Standard 4
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, March 29, 2010 12:33:13
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
>	Li	6		ug/L			333489	325373	2
	Be	9	100.201	ug/L	1.618	1	10	40391	1
	C	13		mg/L			6329	5477	0
	Cl	37		mg/L			3042244	3134797	0
>	Sc	45		ug/L			224839	230492	0
	V-1	51	100.197	ug/L	0.178	0	1092	1046051	0
	V	51	100.157	ug/L	0.079	0	4130	1067817	0
	Cr	52	100.230	ug/L	0.666	0	4133	932004	0
	Cr	53	100.104	ug/L	0.421	0	1438	112276	0
	Mn	55	99.758	ug/L	1.220	1	448	1515549	0
	Co	59	99.921	ug/L	0.954	0	141	1199718	0
>	Ge	72		ug/L			310039	327380	0
	Ni	60	99.986	ug/L	0.811	0	85	256313	0
	Ni	62	99.939	ug/L	0.492	0	47	38822	0
	Cu	63	99.548	ug/L	0.494	0	350	592361	0
	Cu	65	99.362	ug/L	0.974	0	177	286367	0
	Zn	66	99.786	ug/L	0.765	0	374	196728	0
	Zn	67	100.426	ug/L	0.870	0	171	33108	0
	Zn	68	100.160	ug/L	0.732	0	4651	145553	0
	As-1	75	100.257	ug/L	0.276	0	315	186511	0
	As	75	100.326	ug/L	0.391	0	6922	193400	0
	Se	82	99.512	ug/L	0.697	0	-1	16687	0
	Se	78	99.806	ug/L	0.665	0	6985	49700	0
	Mo	98	99.765	ug/L	1.191	1	96	625510	1
	Y	89		ug/L			254240	258699	0
	Kr	83		ug/L			159	178	8
>	In	115		ug/L			340398	353014	0
	Ag	107	99.189	ug/L	1.068	1	157	1152681	0
	Cd	111	99.763	ug/L	0.343	0	150	280607	0
	Cd	114	99.848	ug/L	0.613	0	31	663369	0
	Sb	121	99.913	ug/L	0.915	0	242	1047301	0
	Sb	123	100.171	ug/L	1.490	1	179	796301	0
	Ba	135	99.699	ug/L	1.206	1	33	223826	0
	Ba	137	99.585	ug/L	1.649	1	57	377002	0
>	Tb	159		ug/L			353731	367469	0
	Tl	205	100.180	ug/L	0.367	0	354	2528556	0
	Pb	208	99.353	ug/L	0.562	0	1102	3322671	0
	Bi	209		ug/L			283038	287283	0
	Th	232	100.046	ug/L	1.525	1	685	3826203	1
	U	238	99.744	ug/L	1.163	1	192	4007365	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: Rinse Sample
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, March 29, 2010 12:41:00
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			333489	343749	0
[	Be	9	-0.012	ug/L	0.003	28	10	5	24
	C	13		mg/L			6329	6069	2
	Cl	37		mg/L			3042244	3085531	0
[>	Sc	45		ug/L			224839	228456	0
|	V-1	51	0.019	ug/L	0.013	66	1092	1305	10
|	V	51	-0.073	ug/L	0.013	17	4130	3428	4
|	Cr	52	0.008	ug/L	0.011	150	4133	4270	2
|	Cr	53	-0.274	ug/L	0.015	5	1438	1161	1
|	Mn	55	-0.005	ug/L	0.001	12	448	381	2
[	Co	59	-0.007	ug/L	0.001	14	141	63	18
[>	Ge	72		ug/L			310039	323618	0
|	Ni	60	-0.004	ug/L	0.005	119	85	79	15
|	Ni	62	-0.000	ug/L	0.021	18562	47	50	16
|	Cu	63	-0.018	ug/L	0.003	15	350	257	6
|	Cu	65	-0.024	ug/L	0.003	13	177	118	6
|	Zn	66	-0.094	ug/L	0.006	6	374	207	5
|	Zn	67	-0.158	ug/L	0.022	14	171	127	5
|	Zn	68	-0.082	ug/L	0.117	142	4651	4740	2
|	As-1	75	-0.017	ug/L	0.018	111	315	298	12
|	As	75	-0.012	ug/L	0.028	222	6922	7202	0
|	Se	82	-0.030	ug/L	0.148	493	-1	-5	412
|	Se	78	-0.003	ug/L	0.144	4622	6985	7290	0
[	Mo	98	0.001	ug/L	0.004	720	96	103	23
	Y	89		ug/L			254240	257382	0
	Kr	83		ug/L			159	167	9
[>	In	115		ug/L			340398	349131	0
|	Ag	107	0.000	ug/L	0.003	959	157	165	20
|	Cd	111	-0.002	ug/L	0.005	221	150	147	11
|	Cd	114	0.001	ug/L	0.000	17	31	37	3
|	Sb	121	0.014	ug/L	0.006	42	242	393	16
|	Sb	123	0.016	ug/L	0.002	10	179	312	5
|	Ba	135	-0.005	ug/L	0.005	111	33	23	52
[	Ba	137	-0.003	ug/L	0.002	71	57	45	20
[>	Tb	159		ug/L			353731	358696	0
|	Tl	205	-0.004	ug/L	0.002	59	354	257	23
|	Pb	208	-0.009	ug/L	0.002	25	1102	825	9
|	Bi	209		ug/L			283038	288964	1
|	Th	232	0.001	ug/L	0.003	270	685	736	15
[	U	238	0.000	ug/L	0.002	23257	192	195	40

ICP-MS Quantitative Analysis - Summary Report

Sample ID: Blank
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, March 29, 2010 12:48:26
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L				346137	0
[	Be	9		ug/L				7	44
	C	13		mg/L				5980	2
	Cl	37		mg/L				3044792	0
[>	Sc	45		ug/L				227993	0
|	V-1	51		ug/L				1256	9
|	V	51		ug/L				3318	2
|	Cr	52		ug/L				4241	2
|	Cr	53		ug/L				1138	4
|	Mn	55		ug/L				336	5
[	Co	59		ug/L				35	0
[>	Ge	72		ug/L				322645	0
|	Ni	60		ug/L				77	2
|	Ni	62		ug/L				47	15
|	Cu	63		ug/L				215	6
|	Cu	65		ug/L				103	8
|	Zn	66		ug/L				184	6
|	Zn	67		ug/L				117	13
|	Zn	68		ug/L				4744	1
|	As-1	75		ug/L				309	8
|	As	75		ug/L				7188	1
|	Se	82		ug/L				-2	372
|	Se	78		ug/L				7264	0
[	Mo	98		ug/L				35	14
	Y	89		ug/L				258568	0
	Kr	83		ug/L				164	3
[>	In	115		ug/L				342647	0
|	Ag	107		ug/L				102	12
|	Cd	111		ug/L				148	7
|	Cd	114		ug/L				23	5
|	Sb	121		ug/L				158	2
|	Sb	123		ug/L				125	3
|	Ba	135		ug/L				23	17
[	Ba	137		ug/L				28	24
[>	Tb	159		ug/L				358639	1
|	Tl	205		ug/L				146	15
|	Pb	208		ug/L				641	11
|	Bi	209		ug/L				288543	0
|	Th	232		ug/L				343	25
[	U	238		ug/L				65	14

Quantitative Analysis - Calibration Report

Sample Date/Time: Monday, March 29, 2010 12:48:26
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

Analyte	Mass	r Corr Coeff	Slope	Std 1 Conc	Std 2 Conc	Std 3 Conc	Std 4 Conc	Std 5 Conc
Li	6							
Be	9	1.0000	0.0012	10	20	50	100	
C	13							
Cl	37							
Sc	45							
V-1	51	1.0000	0.0452	10	20	50	100	
V	51	1.0000	0.0461	10	20	50	100	
Cr	52	1.0000	0.0402	10	20	50	100	
Cr	53	1.0000	0.0048	10	20	50	100	
Mn	55	1.0000	0.0659	10	20	50	100	
Co	59	1.0000	0.0521	10	20	50	100	
Ge	72							
Ni	60	1.0000	0.0078	10	20	50	100	
Ni	62	1.0000	0.0012	10	20	50	100	
Cu	63	1.0000	0.0182	10	20	50	100	
Cu	65	0.9999	0.0088	10	20	50	100	
Zn	66	1.0000	0.0060	10	20	50	100	
Zn	67	0.9999	0.0010	10	20	50	100	
Zn	68	1.0000	0.0043	10	20	50	100	
As-1	75	1.0000	0.0057	10	20	50	100	
As	75	1.0000	0.0057	10	20	50	100	
Se	82	1.0000	0.0005	10	20	50	100	
Se	78	1.0000	0.0013	10	20	50	100	
Mo	98	1.0000	0.0191	10	20	50	100	
Y	89							
Kr	83							
In	115							
Ag	107	0.9999	0.0329	10	20	50	100	
Cd	111	1.0000	0.0080	10	20	50	100	
Cd	114	1.0000	0.0188	10	20	50	100	
Sb	121	1.0000	0.0297	10	20	50	100	
Sb	123	1.0000	0.0225	10	20	50	100	
Ba	135	1.0000	0.0064	10	20	50	100	
Ba	137	1.0000	0.0107	10	20	50	100	
Tb	159							
Tl	205	1.0000	0.0687	10	20	50	100	
Pb	208	0.9999	0.0910	10	20	50	100	
Bi	209							
Th	232	1.0000	0.1041	10	20	50	100	
U	238	1.0000	0.1093	10	20	50	100	

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ICV
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, March 29, 2010 12:56:16
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			346137	353772	0
[	Be	9	49.468	ug/L	0.781	1	7	21688	1
	C	13		mg/L			5980	9460	1
	Cl	37		mg/L			3044792	3064313	0
[>	Sc	45		ug/L			227993	232832	1
[	V-1	51	49.586	ug/L	0.564	1	1256	523697	2
[	V	51	49.692	ug/L	0.444	0	3318	536460	1
[	Cr	52	49.492	ug/L	0.164	0	4241	467101	1
[	Cr	53	49.825	ug/L	1.040	2	1138	56863	1
[	Mn	55	50.872	ug/L	0.566	1	336	780776	0
[	Co	59	50.162	ug/L	0.811	1	35	608339	1
[>	Ge	72		ug/L			322645	328002	0
[	Ni	60	51.049	ug/L	0.823	1	77	131143	1
[	Ni	62	51.514	ug/L	0.948	1	47	20069	1
[	Cu	63	51.228	ug/L	0.279	0	215	305442	0
[	Cu	65	51.411	ug/L	0.690	1	103	148458	1
[	Zn	66	52.000	ug/L	0.610	1	184	102694	1
[	Zn	67	50.412	ug/L	0.207	0	117	16679	0
[	Zn	68	51.119	ug/L	0.291	0	4744	76739	0
[	As-1	75	49.892	ug/L	0.071	0	309	93140	0
[	As	75	49.675	ug/L	0.229	0	7188	99621	0
[	Se	82	80.391	ug/L	0.298	0	-2	13505	0
[	Se	78	79.601	ug/L	1.071	1	7264	41205	0
[	Mo	98	49.871	ug/L	0.412	0	35	313260	0
	Y	89		ug/L			258568	264515	0
	Kr	83		ug/L			164	176	6
[>	In	115		ug/L			342647	352022	0
[	Ag	107	48.589	ug/L	0.500	1	102	563108	0
[	Cd	111	50.184	ug/L	0.083	0	148	140832	0
[	Cd	114	50.402	ug/L	0.300	0	23	333937	1
[	Sb	121	49.812	ug/L	0.340	0	158	520727	0
[	Sb	123	49.389	ug/L	0.389	0	125	391568	0
[	Ba	135	50.836	ug/L	0.290	0	23	113819	0
[	Ba	137	50.941	ug/L	0.978	1	28	192316	1
[>	Tb	159		ug/L			358639	363089	0
[	Tl	205	49.947	ug/L	0.254	0	146	1245612	0
[	Pb	208	53.464	ug/L	0.269	0	641	1766697	0
[	Bi	209		ug/L			288543	289825	0
[	Th	232	51.403	ug/L	0.386	0	343	1942484	0
[	U	238	52.409	ug/L	0.677	1	65	2080411	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ICB
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, March 29, 2010 13:03:50
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			346137	347439	1
[	Be	9	-0.001	ug/L	0.003	331	7	6	21
	C	13		mg/L			5980	6114	1
	Cl	37		mg/L			3044792	3031285	0
[>	Sc	45		ug/L			227993	226014	0
[	V-1	51	-0.004	ug/L	0.021	534	1256	1204	17
[	V	51	-0.013	ug/L	0.008	60	3318	3157	2
[	Cr	52	0.011	ug/L	0.007	60	4241	4307	1
[	Cr	53	-0.016	ug/L	0.049	307	1138	1111	5
[	Mn	55	0.000	ug/L	0.002	475	336	339	9
[	Co	59	0.001	ug/L	0.001	48	35	49	14
[>	Ge	72		ug/L			322645	322723	0
[	Ni	60	-0.005	ug/L	0.002	47	77	65	9
[	Ni	62	0.000	ug/L	0.031	46236	47	47	24
[	Cu	63	-0.003	ug/L	0.004	125	215	197	10
[	Cu	65	-0.003	ug/L	0.004	139	103	96	10
[	Zn	66	0.013	ug/L	0.011	83	184	209	9
[	Zn	67	-0.043	ug/L	0.009	21	117	103	3
[	Zn	68	0.002	ug/L	0.017	751	4744	4748	0
[	As-1	75	-0.012	ug/L	0.008	63	309	287	4
[	As	75	0.042	ug/L	0.023	55	7188	7266	0
[	Se	82	-0.059	ug/L	0.076	129	-2	-12	104
[	Se	78	0.210	ug/L	0.103	49	7264	7354	0
[	Mo	98	0.005	ug/L	0.002	33	35	65	14
	Y	89		ug/L			258568	257351	2
	Kr	83		ug/L			164	169	5
[>	In	115		ug/L			342647	351222	1
[	Ag	107	-0.000	ug/L	0.002	725	102	102	19
[	Cd	111	0.003	ug/L	0.007	257	148	160	13
[	Cd	114	0.002	ug/L	0.001	71	23	35	22
[	Sb	121	-0.003	ug/L	0.002	68	158	130	16
[	Sb	123	-0.003	ug/L	0.001	33	125	101	8
[	Ba	135	-0.003	ug/L	0.004	130	23	17	46
[	Ba	137	-0.001	ug/L	0.002	169	28	25	24
[>	Tb	159		ug/L			358639	358873	1
[	Tl	205	0.001	ug/L	0.001	82	146	182	17
[	Pb	208	0.002	ug/L	0.002	91	641	720	10
[	Bi	209		ug/L			288543	292041	1
[	Th	232	0.005	ug/L	0.001	29	343	531	11
[	U	238	0.001	ug/L	0.001	56	65	117	26

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, March 29, 2010 13:11:17
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			346137	344159	1
[	Be	9	50.493	ug/L	0.855	1	7	21533	0
	C	13		mg/L			5980	4137	1
	Cl	37		mg/L			3044792	3077776	0
[>	Sc	45		ug/L			227993	227314	1
[	V-1	51	49.659	ug/L	0.249	0	1256	511975	0
[	V	51	49.687	ug/L	0.023	0	3318	523663	0
[	Cr	52	49.480	ug/L	0.256	0	4241	455929	1
[	Cr	53	49.576	ug/L	0.609	1	1138	55257	2
[	Mn	55	49.240	ug/L	0.726	1	336	737887	1
[	Co	59	49.380	ug/L	0.316	0	35	584664	0
[>	Ge	72		ug/L			322645	321531	0
[	Ni	60	49.826	ug/L	0.339	0	77	125479	0
[	Ni	62	49.708	ug/L	0.347	0	47	18986	0
[	Cu	63	50.741	ug/L	0.549	1	215	296576	1
[	Cu	65	50.201	ug/L	0.091	0	103	142110	0
[	Zn	66	49.727	ug/L	0.224	0	184	96275	0
[	Zn	67	49.473	ug/L	0.786	1	117	16048	1
[	Zn	68	49.509	ug/L	0.281	0	4744	73003	0
[	As-1	75	49.829	ug/L	0.460	0	309	91186	0
[	As	75	49.707	ug/L	0.363	0	7188	97712	0
[	Se	82	51.089	ug/L	0.172	0	-2	8412	0
[	Se	78	50.594	ug/L	0.389	0	7264	28312	1
[	Mo	98	49.931	ug/L	0.453	0	35	307448	0
	Y	89		ug/L			258568	255810	0
	Kr	83		ug/L			164	174	3
[>	In	115		ug/L			342647	342315	0
[	Ag	107	52.048	ug/L	0.224	0	102	586571	0
[	Cd	111	50.704	ug/L	0.413	0	148	138363	0
[	Cd	114	50.960	ug/L	0.704	1	23	328311	1
[	Sb	121	50.363	ug/L	0.276	0	158	511966	0
[	Sb	123	50.385	ug/L	0.205	0	125	388460	0
[	Ba	135	49.957	ug/L	0.422	0	23	108768	0
[	Ba	137	50.407	ug/L	0.261	0	28	185055	0
[>	Tb	159		ug/L			358639	355764	0
[	Tl	205	49.971	ug/L	0.344	0	146	1221029	0
[	Pb	208	51.392	ug/L	0.313	0	641	1664012	1
[	Bi	209		ug/L			288543	286580	1
[	Th	232	50.658	ug/L	0.771	1	343	1875605	0
[	U	238	50.642	ug/L	0.217	0	65	1969736	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, March 29, 2010 13:18:44
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			346137	356463	0
[	Be	9	-0.003	ug/L	0.004	132	7	5	32
	C	13		mg/L			5980	5899	1
	Cl	37		mg/L			3044792	3054517	0
[>	Sc	45		ug/L			227993	230566	1
[	V-1	51	0.013	ug/L	0.016	123	1256	1406	12
[	V	51	-0.031	ug/L	0.012	39	3318	3029	3
[	Cr	52	0.008	ug/L	0.013	154	4241	4366	3
[	Cr	53	-0.125	ug/L	0.065	51	1138	1012	6
[	Mn	55	0.002	ug/L	0.002	83	336	368	5
[	Co	59	0.001	ug/L	0.000	21	35	52	6
[>	Ge	72		ug/L			322645	323638	0
[	Ni	60	-0.003	ug/L	0.000	12	77	69	1
[	Ni	62	-0.001	ug/L	0.005	329	47	46	4
[	Cu	63	-0.002	ug/L	0.003	151	215	203	9
[	Cu	65	-0.003	ug/L	0.006	168	103	94	17
[	Zn	66	0.017	ug/L	0.007	42	184	218	7
[	Zn	67	-0.058	ug/L	0.023	39	117	99	6
[	Zn	68	-0.082	ug/L	0.078	94	4744	4644	2
[	As-1	75	-0.012	ug/L	0.008	65	309	289	4
[	As	75	0.035	ug/L	0.013	37	7188	7275	0
[	Se	82	-0.077	ug/L	0.084	109	-2	-15	91
[	Se	78	0.156	ug/L	0.062	39	7264	7352	0
[	Mo	98	0.009	ug/L	0.002	23	35	91	14
	Y	89		ug/L			258568	261282	0
	Kr	83		ug/L			164	169	5
[>	In	115		ug/L			342647	348498	1
[	Ag	107	0.003	ug/L	0.002	58	102	141	14
[	Cd	111	0.001	ug/L	0.006	1106	148	153	10
[	Cd	114	0.002	ug/L	0.000	12	23	37	5
[	Sb	121	0.017	ug/L	0.007	42	158	337	22
[	Sb	123	0.017	ug/L	0.006	36	125	261	18
[	Ba	135	0.002	ug/L	0.002	90	23	28	15
[	Ba	137	0.002	ug/L	0.002	116	28	35	22
[>	Tb	159		ug/L			358639	363414	0
[	Tl	205	0.002	ug/L	0.002	111	146	188	24
[	Pb	208	0.001	ug/L	0.002	138	641	696	9
[	Bi	209		ug/L			288543	290564	0
[	Th	232	0.009	ug/L	0.003	37	343	699	19
[	U	238	0.003	ug/L	0.000	14	65	171	9

ICP-MS Quantitative Analysis - Summary Report

Sample ID: LOW CHECK
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, March 29, 2010 13:26:10
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			346137	364492	1
[	Be	9	0.183	ug/L	0.004	2	7	90	3
	C	13		mg/L			5980	6153	0
	Cl	37		mg/L			3044792	3033793	0
[>	Sc	45		ug/L			227993	233605	0
[	V-1	51	0.197	ug/L	0.029	15	1256	3364	9
[	V	51	0.153	ug/L	0.006	4	3318	5048	1
[	Cr	52	0.500	ug/L	0.016	3	4241	9040	1
[	Cr	53	0.351	ug/L	0.070	20	1138	1560	5
[	Mn	55	0.499	ug/L	0.009	1	336	8026	1
[	Co	59	0.201	ug/L	0.006	3	35	2478	2
[>	Ge	72		ug/L			322645	328387	0
[	Ni	60	0.524	ug/L	0.033	6	77	1426	5
[	Ni	62	0.466	ug/L	0.020	4	47	229	3
[	Cu	63	0.511	ug/L	0.005	0	215	3267	0
[	Cu	65	0.507	ug/L	0.014	2	103	1569	1
[	Zn	66	4.087	ug/L	0.053	1	184	8253	0
[	Zn	67	3.711	ug/L	0.084	2	117	1339	1
[	Zn	68	3.687	ug/L	0.038	1	4744	10021	1
[	As-1	75	0.194	ug/L	0.031	16	309	677	9
[	As	75	0.138	ug/L	0.024	17	7188	7573	0
[	Se	82	0.515	ug/L	0.066	12	-2	84	13
[	Se	78	0.275	ug/L	0.158	57	7264	7510	0
[	Mo	98	0.199	ug/L	0.011	5	35	1286	4
	Y	89		ug/L			258568	265702	1
	Kr	83		ug/L			164	167	3
[>	In	115		ug/L			342647	351343	0
[	Ag	107	0.191	ug/L	0.004	2	102	2318	2
[	Cd	111	0.211	ug/L	0.005	2	148	743	2
[	Cd	114	0.204	ug/L	0.007	3	23	1372	3
[	Sb	121	0.197	ug/L	0.002	1	158	2222	1
[	Sb	123	0.196	ug/L	0.003	1	125	1676	1
[	Ba	135	0.492	ug/L	0.020	4	23	1123	3
[	Ba	137	0.502	ug/L	0.016	3	28	1919	3
[>	Tb	159		ug/L			358639	367233	1
[	Tl	205	0.207	ug/L	0.005	2	146	5356	1
[	Pb	208	1.016	ug/L	0.027	2	641	34584	1
[	Bi	209		ug/L			288543	297845	0
[	Th	232	0.199	ug/L	0.004	1	343	7966	1
[	U	238	0.197	ug/L	0.002	1	65	7993	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ICSA
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, March 29, 2010 13:33:36
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			346137	368328	1
[	Be	9	-0.005	ug/L	0.010	208	7	5	81
	C	13		mg/L			5980	20956	0
	Cl	37		mg/L			3044792	4492510	0
[>	Sc	45		ug/L			227993	205656	2
[	V-1	51	-0.011	ug/L	0.010	90	1256	1030	6
[	V	51	0.410	ug/L	0.046	11	3318	6866	4
[	Cr	52	0.461	ug/L	0.021	4	4241	7631	2
[	Cr	53	1.725	ug/L	0.128	7	1138	2728	2
[	Mn	55	0.234	ug/L	0.009	3	336	3476	4
[	Co	59	0.028	ug/L	0.002	6	35	329	4
[>	Ge	72		ug/L			322645	290270	1
[	Ni	60	0.354	ug/L	0.024	6	77	873	5
[	Ni	62	3.103	ug/L	0.117	3	47	1109	2
[	Cu	63	0.334	ug/L	0.026	7	215	1956	6
[	Cu	65	0.469	ug/L	0.023	4	103	1291	5
[	Zn	66	0.980	ug/L	0.055	5	184	1876	5
[	Zn	67	1.170	ug/L	0.078	6	117	445	5
[	Zn	68	0.186	ug/L	0.073	39	4744	4499	1
[	As-1	75	0.000	ug/L	0.022	4433	309	279	11
[	As	75	0.110	ug/L	0.036	33	7188	6647	0
[	Se	82	-0.052	ug/L	0.039	74	-2	-9	58
[	Se	78	0.521	ug/L	0.124	23	7264	6731	1
[	Mo	98	417.115	ug/L	0.969	0	35	2318441	1
	Y	89		ug/L			258568	242882	1
	Kr	83		ug/L			164	162	1
[>	In	115		ug/L			342647	314003	1
[	Ag	107	0.029	ug/L	0.004	12	102	395	8
[	Cd	111	0.013	ug/L	0.006	44	148	169	9
[	Cd	114	0.511	ug/L	0.031	6	23	3041	7
[	Sb	121	0.039	ug/L	0.005	12	158	511	7
[	Sb	123	0.039	ug/L	0.005	12	125	391	6
[	Ba	135	0.034	ug/L	0.003	8	23	88	4
[	Ba	137	0.028	ug/L	0.004	15	28	121	10
[>	Tb	159		ug/L			358639	339671	1
[	Tl	205	0.005	ug/L	0.001	26	146	266	13
[	Pb	208	0.141	ug/L	0.004	3	641	4960	3
[	Bi	209		ug/L			288543	268139	0
[	Th	232	0.024	ug/L	0.004	16	343	1171	11
[	U	238	-0.000	ug/L	0.000	81	65	48	21

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ICSAB
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, March 29, 2010 13:41:02
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			346137	369095	0
[	Be	9	0.006	ug/L	0.013	213	7	10	59
	C	13		mg/L			5980	19365	0
	Cl	37		mg/L			3044792	4313483	0
[>	Sc	45		ug/L			227993	200064	1
[	V-1	51	-0.484	ug/L	0.113	23	1256	-3269	30
[	V	51	0.529	ug/L	0.039	7	3318	7787	3
[	Cr	52	20.064	ug/L	0.252	1	4241	164920	1
[	Cr	53	22.041	ug/L	0.507	2	1138	22172	1
[	Mn	55	19.639	ug/L	0.233	1	336	259183	1
[	Co	59	19.531	ug/L	0.298	1	35	203556	2
[>	Ge	72		ug/L			322645	280005	0
[	Ni	60	19.873	ug/L	0.193	0	77	43626	1
[	Ni	62	22.637	ug/L	0.652	2	47	7550	2
[	Cu	63	19.814	ug/L	0.088	0	215	100964	0
[	Cu	65	19.893	ug/L	0.171	0	103	49097	1
[	Zn	66	20.113	ug/L	0.111	0	184	34006	1
[	Zn	67	18.275	ug/L	0.179	0	117	5226	0
[	Zn	68	18.519	ug/L	0.166	0	4744	26357	0
[	As-1	75	19.929	ug/L	0.122	0	309	31921	0
[	As	75	20.102	ug/L	0.140	0	7188	38127	0
[	Se	82	-0.091	ug/L	0.067	73	-2	-15	64
[	Se	78	0.755	ug/L	0.125	16	7264	6578	0
[	Mo	98	425.301	ug/L	3.094	0	35	2280268	0
	Y	89		ug/L			258568	235331	0
	Kr	83		ug/L			164	170	3
[>	In	115		ug/L			342647	300904	0
[	Ag	107	18.468	ug/L	0.142	0	102	183014	0
[	Cd	111	20.387	ug/L	0.165	0	148	48980	0
[	Cd	114	20.697	ug/L	0.187	0	23	117222	1
[	Sb	121	0.039	ug/L	0.002	4	158	486	3
[	Sb	123	0.039	ug/L	0.003	6	125	371	5
[	Ba	135	0.036	ug/L	0.004	11	23	90	8
[	Ba	137	0.034	ug/L	0.003	8	28	133	7
[>	Tb	159		ug/L			358639	335653	0
[	Tl	205	0.010	ug/L	0.002	15	146	360	10
[	Pb	208	0.131	ug/L	0.002	1	641	4589	2
[	Bi	209		ug/L			288543	263263	0
[	Th	232	0.018	ug/L	0.001	6	343	949	3
[	U	238	-0.001	ug/L	0.000	27	65	42	12

ICP-MS Quantitative Analysis - Summary Report

Sample ID: LC
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, March 29, 2010 13:48:48
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			346137	371987	0
[	Be	9	0.110	ug/L	0.016	14	7	58	11
	C	13		mg/L			5980	5742	0
	Cl	37		mg/L			3044792	2673816	0
[>	Sc	45		ug/L			227993	207080	0
[	V-1	51	0.089	ug/L	0.013	14	1256	1972	6
[	V	51	0.253	ug/L	0.018	7	3318	5428	2
[	Cr	52	0.246	ug/L	0.007	2	4241	5898	1
[	Cr	53	0.742	ug/L	0.083	11	1138	1771	4
[	Mn	55	0.270	ug/L	0.003	1	336	3994	0
[	Co	59	0.099	ug/L	0.007	7	35	1102	6
[>	Ge	72		ug/L			322645	290450	0
[	Ni	60	0.243	ug/L	0.011	4	77	623	5
[	Ni	62	0.249	ug/L	0.051	20	47	127	13
[	Cu	63	0.254	ug/L	0.009	3	215	1534	3
[	Cu	65	0.253	ug/L	0.025	9	103	739	8
[	Zn	66	2.229	ug/L	0.060	2	184	4055	1
[	Zn	67	2.040	ug/L	0.033	1	117	699	0
[	Zn	68	1.973	ug/L	0.080	4	4744	6728	0
[	As-1	75	0.100	ug/L	0.007	7	309	443	2
[	As	75	0.190	ug/L	0.043	22	7188	6783	0
[	Se	82	0.306	ug/L	0.078	25	-2	43	26
[	Se	78	0.708	ug/L	0.211	29	7264	6805	0
[	Mo	98	0.145	ug/L	0.009	5	35	840	6
	Y	89		ug/L			258568	241314	0
	Kr	83		ug/L			164	148	6
[>	In	115		ug/L			342647	314834	1
[	Ag	107	0.096	ug/L	0.003	3	102	1086	4
[	Cd	111	0.099	ug/L	0.007	6	148	386	5
[	Cd	114	0.106	ug/L	0.003	2	23	647	2
[	Sb	121	0.091	ug/L	0.002	2	158	1000	3
[	Sb	123	0.093	ug/L	0.001	0	125	772	0
[	Ba	135	0.256	ug/L	0.006	2	23	534	1
[	Ba	137	0.261	ug/L	0.028	10	28	907	9
[>	Tb	159		ug/L			358639	344264	0
[	Tl	205	0.111	ug/L	0.006	5	146	2769	4
[	Pb	208	0.593	ug/L	0.012	2	641	19188	1
[	Bi	209		ug/L			288543	279497	1
[	Th	232	0.098	ug/L	0.005	4	343	3838	3
[	U	238	0.102	ug/L	0.002	1	65	3910	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: LR200
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, March 29, 2010 13:56:31
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
⌈>	Li	6		ug/L			346137	365010	1
⌊	Be	9	192.006	ug/L	2.778	1	7	86817	0
	C	13		mg/L			5980	5749	1
	Cl	37		mg/L			3044792	2782581	1
⌈>	Sc	45		ug/L			227993	208860	2
|	V-1	51	198.714	ug/L	2.421	1	1256	1878685	0
|	V	51	198.571	ug/L	2.108	1	3318	1913516	1
|	Cr	52	192.042	ug/L	2.041	1	4241	1614457	1
|	Cr	53	191.971	ug/L	2.685	1	1138	193572	1
|	Mn	55	196.139	ug/L	1.427	0	336	2699441	1
⌊	Co	59	191.808	ug/L	0.905	0	35	2086769	2
⌈>	Ge	72		ug/L			322645	293856	1
|	Ni	60	187.613	ug/L	2.672	1	77	431595	1
|	Ni	62	185.221	ug/L	1.550	0	47	64547	2
|	Cu	63	187.773	ug/L	1.394	0	215	1002489	1
|	Cu	65	188.213	ug/L	1.441	0	103	486648	1
|	Zn	66	188.739	ug/L	1.472	0	184	333478	1
|	Zn	67	184.716	ug/L	1.021	0	117	54469	1
|	Zn	68	184.805	ug/L	0.623	0	4744	237253	1
|	As-1	75	195.071	ug/L	0.798	0	309	325429	1
|	As	75	194.316	ug/L	0.671	0	7188	330060	1
|	Se	82	202.461	ug/L	1.524	0	-2	30473	0
|	Se	78	199.238	ug/L	1.341	0	7264	82449	1
⌊	Mo	98	204.835	ug/L	0.927	0	35	1152583	1
	Y	89		ug/L			258568	243742	1
	Kr	83		ug/L			164	173	2
⌈>	In	115		ug/L			342647	315809	1
|	Ag	107	203.318	ug/L	2.287	1	102	2113470	1
|	Cd	111	199.497	ug/L	3.189	1	148	501756	0
|	Cd	114	197.946	ug/L	1.170	0	23	1176401	1
|	Sb	121	203.042	ug/L	2.801	1	158	1903522	0
|	Sb	123	199.282	ug/L	2.997	1	125	1416895	0
|	Ba	135	197.049	ug/L	4.972	2	23	395639	1
⌊	Ba	137	204.032	ug/L	3.777	1	28	690850	0
⌈>	Tb	159		ug/L			358639	344509	0
|	Tl	205	198.983	ug/L	2.263	1	146	4707912	0
|	Pb	208	203.204	ug/L	2.013	0	641	6369287	0
|	Bi	209		ug/L			288543	268720	0
|	Th	232	207.155	ug/L	4.077	1	343	7426202	1
⌊	U	238	207.082	ug/L	2.940	1	65	7799264	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: LR300
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, March 29, 2010 14:04:14
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
⌈>	Li	6		ug/L			346137	344963	1
⌊	Be	9	293.308	ug/L	2.140	0	7	125351	1
	C	13		mg/L			5980	4695	0
	Cl	37		mg/L			3044792	2882342	0
⌈>	Sc	45		ug/L			227993	209290	1
|	V-1	51	305.026	ug/L	2.161	0	1256	2889433	0
|	V	51	302.783	ug/L	1.377	0	3318	2922531	0
|	Cr	52	302.882	ug/L	1.777	0	4241	2549531	0
|	Cr	53	296.119	ug/L	3.355	1	1138	298681	2
|	Mn	55	301.549	ug/L	5.583	1	336	4159320	2
⌊	Co	59	292.904	ug/L	4.071	1	35	3193062	1
⌈>	Ge	72		ug/L			322645	300162	1
|	Ni	60	282.107	ug/L	3.119	1	77	662911	1
|	Ni	62	284.231	ug/L	1.957	0	47	101144	1
|	Cu	63	286.132	ug/L	3.296	1	215	1560370	1
|	Cu	65	282.863	ug/L	1.812	0	103	747076	1
|	Zn	66	280.033	ug/L	2.283	0	184	505335	1
|	Zn	67	278.470	ug/L	1.049	0	117	83821	0
|	Zn	68	280.433	ug/L	2.505	0	4744	365447	1
|	As-1	75	295.011	ug/L	1.222	0	309	502570	0
|	As	75	294.354	ug/L	1.319	0	7188	507268	0
|	Se	82	299.213	ug/L	2.947	0	-2	46006	1
|	Se	78	296.516	ug/L	3.333	1	7264	122042	1
⌊	Mo	98	304.567	ug/L	3.296	1	35	1750497	0
	Y	89		ug/L			258568	242483	0
	Kr	83		ug/L			164	204	2
⌈>	In	115		ug/L			342647	322094	1
|	Ag	107	307.088	ug/L	2.872	0	102	3255692	1
|	Cd	111	296.661	ug/L	1.112	0	148	761048	1
|	Cd	114	301.254	ug/L	2.723	0	23	1825922	1
|	Sb	121	312.486	ug/L	1.071	0	158	2988056	1
|	Sb	123	311.326	ug/L	1.450	0	125	2257736	1
|	Ba	135	299.126	ug/L	2.436	0	23	612633	1
⌊	Ba	137	304.251	ug/L	3.616	1	28	1050737	0
⌈>	Tb	159		ug/L			358639	339456	0
|	Tl	205	308.401	ug/L	1.436	0	146	7189895	1
|	Pb	208	311.190	ug/L	4.229	1	641	9610649	1
|	Bi	209		ug/L			288543	267661	2
|	Th	232	318.748	ug/L	3.128	0	343	11259260	0
⌊	U	238	314.463	ug/L	0.521	0	65	11670365	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV2
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, March 29, 2010 14:12:00
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			346137	360644	1
[	Be	9	48.538	ug/L	0.668	1	7	21692	1
	C	13		mg/L			5980	4153	1
	Cl	37		mg/L			3044792	2907396	0
[>	Sc	45		ug/L			227993	216755	0
[	V-1	51	49.179	ug/L	0.502	1	1256	483483	0
[	V	51	49.170	ug/L	0.488	0	3318	494160	0
[	Cr	52	48.783	ug/L	0.569	1	4241	428655	0
[	Cr	53	48.777	ug/L	0.573	1	1138	51852	0
[	Mn	55	49.343	ug/L	0.894	1	336	705086	1
[	Co	59	48.301	ug/L	0.844	1	35	545300	0
[>	Ge	72		ug/L			322645	307496	0
[	Ni	60	48.407	ug/L	0.326	0	77	116589	0
[	Ni	62	47.993	ug/L	0.228	0	47	17533	0
[	Cu	63	48.980	ug/L	0.190	0	215	273790	0
[	Cu	65	49.283	ug/L	0.502	1	103	133425	1
[	Zn	66	49.175	ug/L	0.411	0	184	91052	0
[	Zn	67	47.426	ug/L	0.185	0	117	14717	0
[	Zn	68	48.500	ug/L	0.340	0	4744	68486	0
[	As-1	75	49.345	ug/L	0.347	0	309	86362	0
[	As	75	49.344	ug/L	0.564	1	7188	92815	0
[	Se	82	51.323	ug/L	0.237	0	-2	8082	0
[	Se	78	51.348	ug/L	0.972	1	7264	27375	1
[	Mo	98	50.163	ug/L	0.182	0	35	295396	0
	Y	89		ug/L			258568	246143	1
	Kr	83		ug/L			164	165	6
[>	In	115		ug/L			342647	324265	1
[	Ag	107	51.850	ug/L	0.662	1	102	553477	0
[	Cd	111	51.262	ug/L	0.351	0	148	132504	0
[	Cd	114	50.674	ug/L	0.850	1	23	309221	0
[	Sb	121	51.152	ug/L	0.527	1	158	492546	1
[	Sb	123	50.957	ug/L	0.504	0	125	372118	0
[	Ba	135	50.532	ug/L	0.961	1	23	104205	1
[	Ba	137	51.161	ug/L	0.476	0	28	177911	0
[>	Tb	159		ug/L			358639	344439	1
[	Tl	205	50.207	ug/L	0.329	0	146	1187723	0
[	Pb	208	51.924	ug/L	0.404	0	641	1627649	1
[	Bi	209		ug/L			288543	275277	0
[	Th	232	51.077	ug/L	0.107	0	343	1831013	1
[	U	238	50.827	ug/L	0.433	0	65	1913991	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB2
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, March 29, 2010 14:19:28
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			346137	370692	0
[	Be	9	0.006	ug/L	0.001	24	7	10	6
	C	13		mg/L			5980	5550	1
	Cl	37		mg/L			3044792	2857395	0
[>	Sc	45		ug/L			227993	216832	1
[	V-1	51	-0.008	ug/L	0.033	434	1256	1117	28
[	V	51	0.026	ug/L	0.015	56	3318	3418	3
[	Cr	52	0.000	ug/L	0.014	3752	4241	4036	2
[	Cr	53	0.104	ug/L	0.048	45	1138	1191	5
[	Mn	55	0.011	ug/L	0.002	14	336	483	5
[	Co	59	0.003	ug/L	0.001	48	35	61	22
[>	Ge	72		ug/L			322645	302995	0
[	Ni	60	-0.001	ug/L	0.002	156	77	70	5
[	Ni	62	-0.004	ug/L	0.014	381	47	42	11
[	Cu	63	0.005	ug/L	0.003	64	215	227	6
[	Cu	65	-0.003	ug/L	0.002	67	103	88	7
[	Zn	66	0.024	ug/L	0.003	13	184	215	2
[	Zn	67	0.018	ug/L	0.037	203	117	115	10
[	Zn	68	-0.130	ug/L	0.033	25	4744	4286	1
[	As-1	75	0.002	ug/L	0.006	295	309	294	3
[	As	75	0.156	ug/L	0.016	10	7188	7017	0
[	Se	82	-0.009	ug/L	0.030	328	-2	-3	127
[	Se	78	0.662	ug/L	0.100	15	7264	7082	0
[	Mo	98	0.019	ug/L	0.004	23	35	143	18
	Y	89		ug/L			258568	248095	0
	Kr	83		ug/L			164	154	2
[>	In	115		ug/L			342647	327963	0
[	Ag	107	0.013	ug/L	0.001	8	102	243	5
[	Cd	111	-0.005	ug/L	0.003	65	148	128	7
[	Cd	114	0.003	ug/L	0.001	21	23	40	9
[	Sb	121	0.045	ug/L	0.008	17	158	593	13
[	Sb	123	0.044	ug/L	0.008	17	125	443	12
[	Ba	135	0.002	ug/L	0.002	75	23	27	13
[	Ba	137	0.001	ug/L	0.002	245	28	30	23
[>	Tb	159		ug/L			358639	346390	0
[	Tl	205	0.006	ug/L	0.002	39	146	272	18
[	Pb	208	0.005	ug/L	0.003	59	641	789	12
[	Bi	209		ug/L			288543	282409	0
[	Th	232	0.016	ug/L	0.005	31	343	890	19
[	U	238	0.004	ug/L	0.002	48	65	210	33

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QI92 MB1 REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, March 29, 2010 14:30:29
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass		Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6			ug/L			346137	383295	0
[	Be	9		0.001	ug/L	0.012	1133	7	8	67
	C	13			mg/L			5980	7021	2
	Cl	37			mg/L			3044792	2783703	0
[>	Sc	45			ug/L			227993	216705	0
[	V-1	51		0.041	ug/L	0.006	15	1256	1594	3
[	V	51		0.041	ug/L	0.008	18	3318	3563	1
[	Cr	52		0.189	ug/L	0.004	1	4241	5676	0
[	Cr	53		0.181	ug/L	0.016	8	1138	1271	1
[	Mn	55		0.161	ug/L	0.003	2	336	2616	1
[	Co	59		0.011	ug/L	0.000	4	35	159	4
[>	Ge	72			ug/L			322645	304216	1
[	Ni	60	V	0.232	ug/L	0.005	2	77	626	1
[	Ni	62		0.235	ug/L	0.021	8	47	129	6
[	Cu	63	V	0.055	ug/L	0.010	18	215	507	9
[	Cu	65		0.054	ug/L	0.006	11	103	242	8
[	Zn	66		1.305	ug/L	0.008	0	184	2559	1
[	Zn	67		1.105	ug/L	0.059	5	117	447	3
[	Zn	68		1.062	ug/L	0.095	8	4744	5858	1
[	As-1	75	V	0.001	ug/L	0.012	995	309	294	6
[	As	75		0.100	ug/L	0.060	60	7188	6949	0
[	Se	82		-0.013	ug/L	0.046	360	-2	-4	169
[	Se	78		0.427	ug/L	0.265	62	7264	7017	0
[	Mo	98		0.037	ug/L	0.004	9	35	252	8
	Y	89			ug/L			258568	254685	1
	Kr	83			ug/L			164	156	2
[>	In	115			ug/L			342647	328931	1
[	Ag	107	V	0.005	ug/L	0.000	6	102	155	1
[	Cd	111		-0.007	ug/L	0.006	81	148	124	13
[	Cd	114		-0.006	ug/L	0.007	127	23	-12	359
[	Sb	121		0.013	ug/L	0.001	9	158	280	5
[	Sb	123	V	0.011	ug/L	0.002	17	125	199	8
[	Ba	135		0.015	ug/L	0.002	15	23	53	8
[	Ba	137		0.022	ug/L	0.007	33	28	105	23
[>	Tb	159			ug/L			358639	349517	0
[	Tl	205		-0.000	ug/L	0.000	208	146	138	6
[	Pb	208	V	0.006	ug/L	0.001	15	641	811	3
[	Bi	209			ug/L			288543	285597	1
[	Th	232		0.013	ug/L	0.002	17	343	810	10
[	U	238		0.001	ug/L	0.001	55	65	107	22

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QI92 MB2 REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, March 29, 2010 14:37:16
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass		Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6			ug/L			346137	385510	2
[	Be	9		0.004	ug/L	0.009	258	7	9	45
	C	13			mg/L			5980	7079	2
	Cl	37			mg/L			3044792	2743779	0
[>	Sc	45			ug/L			227993	211497	0
[	V-1	51		0.043	ug/L	0.009	21	1256	1578	5
[	V	51		0.034	ug/L	0.007	21	3318	3404	1
[	Cr	52		0.041	ug/L	0.004	10	4241	4284	1
[	Cr	53		0.012	ug/L	0.010	82	1138	1068	1
[	Mn	55		0.382	ug/L	0.009	2	336	5640	1
[	Co	59		0.004	ug/L	0.001	36	35	77	21
[>	Ge	72			ug/L			322645	296995	0
[	Ni	60	U	0.043	ug/L	0.006	15	77	172	8
[	Ni	62		0.036	ug/L	0.020	57	47	55	12
[	Cu	63	U	0.027	ug/L	0.004	14	215	343	6
[	Cu	65		0.024	ug/L	0.003	12	103	157	5
[	Zn	66		0.792	ug/L	0.017	2	184	1583	2
[	Zn	67		0.653	ug/L	0.037	5	117	302	4
[	Zn	68		0.534	ug/L	0.077	14	4744	5047	2
[	As-1	75	U	0.004	ug/L	0.012	313	309	291	6
[	As	75		0.123	ug/L	0.020	16	7188	6823	0
[	Se	82		-0.048	ug/L	0.029	61	-2	-9	47
[	Se	78		0.561	ug/L	0.109	19	7264	6902	0
[	Mo	98		0.007	ug/L	0.001	9	35	73	5
	Y	89			ug/L			258568	249524	2
	Kr	83			ug/L			164	164	4
[>	In	115			ug/L			342647	322860	1
[	Ag	107	U	0.003	ug/L	0.002	55	102	126	12
[	Cd	111		-0.008	ug/L	0.008	99	148	119	16
[	Cd	114		0.002	ug/L	0.001	72	23	32	21
[	Sb	121	U	0.003	ug/L	0.000	2	158	176	1
[	Sb	123		0.002	ug/L	0.001	68	125	133	8
[	Ba	135		0.760	ug/L	0.038	4	23	1581	3
[	Ba	137		0.773	ug/L	0.075	9	28	2701	8
[>	Tb	159			ug/L			358639	346169	1
[	Tl	205	U	0.000	ug/L	0.001	348	146	149	18
[	Pb	208		0.014	ug/L	0.002	14	641	1070	5
[	Bi	209			ug/L			288543	281584	0
[	Th	232		0.007	ug/L	0.001	7	343	587	3
[	U	238		0.002	ug/L	0.000	14	65	122	8

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QI92 MB2SPK REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, March 29, 2010 14:44:04
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			346137	382526	0
[	Be	9	25.728	ug/L	0.329	1	7	12199	0
	C	13		mg/L			5980	7765	0
	Cl	37		mg/L			3044792	2711985	0
[>	Sc	45		ug/L			227993	207604	0
[	V-1	51	26.158	ug/L	0.140	0	1256	246856	0
[	V	51	26.151	ug/L	0.190	0	3318	253148	0
[	Cr	52	26.641	ug/L	0.266	0	4241	225969	0
[	Cr	53	26.592	ug/L	0.442	1	1138	27546	1
[	Mn	55	26.394	ug/L	0.056	0	336	361381	0
[	Co	59	25.906	ug/L	0.221	0	35	280159	0
[>	Ge	72		ug/L			322645	287154	0
[	Ni	60	26.905	ug/L	0.151	0	77	60544	0
[	Ni	62	27.006	ug/L	0.168	0	47	9231	0
[	Cu	63	27.896	ug/L	0.187	0	215	145700	0
[	Cu	65	27.670	ug/L	0.213	0	103	69993	0
[	Zn	66	83.299	ug/L	0.555	0	184	143921	0
[	Zn	67	76.036	ug/L	0.548	0	117	21971	0
[	Zn	68	81.812	ug/L	0.643	0	4744	104986	1
[	As-1	75	27.412	ug/L	0.169	0	309	44924	0
[	As	75	26.875	ug/L	0.302	1	7188	50122	1
[	Se	82	88.739	ug/L	0.446	0	-2	13051	0
[	Se	78	86.688	ug/L	0.529	0	7264	38710	0
[	Mo	98	27.078	ug/L	0.339	1	35	148918	0
	Y	89		ug/L			258568	243583	0
	Kr	83		ug/L			164	151	5
[>	In	115		ug/L			342647	316087	0
[	Ag	107	26.424	ug/L	0.275	1	102	275012	1
[	Cd	111	27.031	ug/L	0.364	1	148	68181	2
[	Cd	114	27.098	ug/L	0.130	0	23	161212	0
[	Sb	121	26.329	ug/L	0.123	0	158	247206	0
[	Sb	123	26.284	ug/L	0.093	0	125	187169	0
[	Ba	135	27.052	ug/L	0.347	1	23	54396	1
[	Ba	137	27.509	ug/L	0.318	1	28	93260	0
[>	Tb	159		ug/L			358639	342875	0
[	Tl	205	27.316	ug/L	0.332	1	146	643386	1
[	Pb	208	28.256	ug/L	0.098	0	641	882025	0
[	Bi	209		ug/L			288543	281190	0
[	Th	232	28.329	ug/L	0.149	0	343	1011070	0
[	U	238	28.044	ug/L	0.350	1	65	1051265	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QI92 MB1SPK REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, March 29, 2010 14:50:52
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			346137	386114	1
[	Be	9	25.005	ug/L	0.151	0	7	11968	0
	C	13		mg/L			5980	7798	1
	Cl	37		mg/L			3044792	2679438	0
[>	Sc	45		ug/L			227993	204143	0
[	V-1	51	25.349	ug/L	0.273	1	1256	235255	0
[	V	51	25.414	ug/L	0.286	1	3318	241984	0
[	Cr	52	25.741	ug/L	0.148	0	4241	214825	0
[	Cr	53	25.918	ug/L	0.198	0	1138	26427	0
[	Mn	55	25.781	ug/L	0.298	1	336	347115	1
[	Co	59	25.475	ug/L	0.238	0	35	270907	1
[>	Ge	72		ug/L			322645	284710	0
[	Ni	60	25.714	ug/L	0.174	0	77	57373	0
[	Ni	62	25.546	ug/L	0.192	0	47	8660	0
[	Cu	63	26.683	ug/L	0.128	0	215	138189	0
[	Cu	65	26.549	ug/L	0.377	1	103	66593	1
[	Zn	66	80.188	ug/L	0.225	0	184	137374	0
[	Zn	67	73.254	ug/L	1.685	2	117	20990	2
[	Zn	68	78.642	ug/L	1.583	2	4744	100217	1
[	As-1	75	26.431	ug/L	0.255	0	309	42957	0
[	As	75	25.947	ug/L	0.110	0	7188	48198	0
[	Se	82	85.816	ug/L	0.837	0	-2	12514	0
[	Se	78	84.033	ug/L	0.543	0	7264	37401	0
[	Mo	98	26.275	ug/L	0.149	0	35	143274	0
	Y	89		ug/L			258568	239502	0
	Kr	83		ug/L			164	156	2
[>	In	115		ug/L			342647	309867	1
[	Ag	107	25.825	ug/L	0.237	0	102	263481	0
[	Cd	111	26.336	ug/L	0.176	0	148	65116	0
[	Cd	114	26.064	ug/L	0.273	1	23	152001	0
[	Sb	121	25.755	ug/L	0.187	0	158	237067	1
[	Sb	123	25.555	ug/L	0.374	1	125	178379	0
[	Ba	135	26.534	ug/L	0.379	1	23	52299	0
[	Ba	137	26.962	ug/L	0.344	1	28	89604	0
[>	Tb	159		ug/L			358639	337580	0
[	Tl	205	26.638	ug/L	0.203	0	146	617718	0
[	Pb	208	27.742	ug/L	0.076	0	641	852618	0
[	Bi	209		ug/L			288543	275124	1
[	Th	232	27.532	ug/L	0.370	1	343	967474	1
[	U	238	27.882	ug/L	0.098	0	65	1029099	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QM57 REF1 SWN
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, March 29, 2010 14:57:41
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
>	Li	6		ug/L			346137	387601	0
	Be	9	94.851	ug/L	1.264	1	7	45552	0
	C	13		mg/L			5980	8208	0
	Cl	37		mg/L			3044792	2667530	0
>	Sc	45		ug/L			227993	226661	1
	V-1	51	76.474	ug/L	0.940	1	1256	785464	0
	V	51	76.434	ug/L	0.820	1	3318	801427	0
	Cr	52	67.524	ug/L	0.972	1	4241	618793	0
	Cr	53	67.894	ug/L	0.441	0	1138	75028	0
	Mn	55	440.327	ug/L	5.169	1	336	6576790	1
	Co	59	69.338	ug/L	1.497	2	35	818537	1
>	Ge	72		ug/L			322645	280984	0
	Ni	60	59.612	ug/L	0.478	0	77	131178	0
	Ni	62	61.151	ug/L	0.680	1	47	20402	1
	Cu	63	72.073	ug/L	0.261	0	215	368052	0
	Cu	65	70.918	ug/L	0.885	1	103	175401	1
	Zn	66	188.428	ug/L	1.653	0	184	318363	0
	Zn	67	181.612	ug/L	1.421	0	117	51211	1
	Zn	68	190.027	ug/L	0.260	0	4744	233146	0
	As-1	75	136.265	ug/L	0.413	0	309	217454	0
	As	75	134.799	ug/L	0.582	0	7188	220859	0
	Se	82	187.796	ug/L	1.084	0	-2	27029	0
	Se	78	181.775	ug/L	1.464	0	7264	72486	0
	Mo	98	48.182	ug/L	0.316	0	35	259270	0
	Y	89		ug/L			258568	533858	0
	Kr	83		ug/L			164	175	4
>	In	115		ug/L			342647	305038	2
	Ag	107	60.959	ug/L	1.476	2	102	611950	1
	Cd	111	77.656	ug/L	1.508	1	148	188707	0
	Cd	114	77.123	ug/L	1.664	2	23	442611	1
	Sb	121	23.902	ug/L	0.479	2	158	216523	0
	Sb	123	23.818	ug/L	0.391	1	125	163649	0
	Ba	135	352.201	ug/L	3.905	1	23	683075	1
	Ba	137	357.602	ug/L	6.506	1	28	1169388	0
>	Tb	159		ug/L			358639	352969	0
	Tl	205	153.496	ug/L	0.956	0	146	3720949	0
	Pb	208	146.028	ug/L	0.775	0	641	4689788	0
	Bi	209		ug/L			288543	282482	1
	Th	232	12.686	ug/L	0.262	2	343	466275	1
	U	238	1.640	ug/L	0.032	1	65	63337	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ89 I REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, March 29, 2010 15:04:35
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

Zn

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			346137	379933	1
[	Be	9	0.011	ug/L	0.007	62	7	12	24
	C	13		mg/L			5980	9429	1
	Cl	37		mg/L			3044792	2763572	0
[>	Sc	45		ug/L			227993	205869	0
[	V-1	51	1.117	ug/L	0.008	0	1256	11536	1
[	V	51	1.074	ug/L	0.009	0	3318	13179	1
[	Cr	52	0.888	ug/L	0.014	1	4241	11175	1
[	Cr	53	0.769	ug/L	0.014	1	1138	1788	1
[	Mn	55	23.160	ug/L	0.158	0	336	314482	0
[	Co	59	0.171	ug/L	0.005	3	35	1866	2
[>	Ge	72		ug/L			322645	283859	0
[	Ni	60	0.946	ug/L	0.033	3	77	2170	3
[	Ni	62	0.904	ug/L	0.078	8	47	345	7
[	Cu	63	11.142	ug/L	0.166	1	215	57640	1
[	Cu	65	11.112	ug/L	0.103	0	103	27841	0
[	Zn	66	35.394	ug/L	0.418	1	184	60541	0
[	Zn	67	31.805	ug/L	0.502	1	117	9145	1
[	Zn	68	34.182	ug/L	0.139	0	4744	45790	0
[	As-1	75	0.966	ug/L	0.008	0	309	1828	1
[	As	75	1.155	ug/L	0.010	0	7188	8181	0
[	Se	82	0.082	ug/L	0.079	96	-2	9	117
[	Se	78	0.950	ug/L	0.050	5	7264	6741	0
[	Mo	98	1.100	ug/L	0.015	1	35	6011	0
	Y	89		ug/L			258568	241916	1
	Kr	83		ug/L			164	152	2
[>	In	115		ug/L			342647	310305	0
[	Ag	107	0.011	ug/L	0.001	9	102	206	4
[	Cd	111	0.107	ug/L	0.015	14	148	398	9
[	Cd	114	0.107	ug/L	0.003	2	23	644	2
[	Sb	121	3.536	ug/L	0.031	0	158	32720	0
[	Sb	123	3.510	ug/L	0.056	1	125	24634	1
[	Ba	135	12.453	ug/L	0.113	0	23	24593	0
[	Ba	137	12.532	ug/L	0.093	0	28	41725	0
[>	Tb	159		ug/L			358639	338165	0
[	Tl	205	0.018	ug/L	0.006	33	146	560	24
[	Pb	208	3.409	ug/L	0.020	0	641	105490	0
[	Bi	209		ug/L			288543	272806	0
[	Th	232	0.024	ug/L	0.000	1	343	1169	1
[	U	238	0.046	ug/L	0.001	1	65	1758	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QI92 B-L REN
Sample Dil Factor: 50
Comments:
Sample Date/Time: Monday, March 29, 2010 15:11:25
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass		Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6			ug/L			346137	350774	0
[	Be	9		0.005	ug/L	0.007	157	7	9	34
	C	13			mg/L			5980	6174	1
	Cl	37			mg/L			3044792	6014717	2
[>	Sc	45			ug/L			227993	219342	2
[	V-1	51		0.081	ug/L	0.012	15	1256	2013	7
[	V	51		1.028	ug/L	0.251	24	3318	13596	19
[	Cr	52		0.385	ug/L	0.034	8	4241	7476	5
[	Cr	53		3.275	ug/L	0.769	23	1138	4549	18
[	Mn	55		6.189	ug/L	0.115	1	336	89771	2
[	Co	59		0.025	ug/L	0.001	3	35	322	4
[>	Ge	72			ug/L			322645	306739	1
[	Ni	60	U	0.300	ug/L	0.013	4	77	794	4
[	Ni	62		0.849	ug/L	0.057	6	47	353	5
[	Cu	63		1.359	ug/L	0.027	2	215	7773	1
[	Cu	65	V	0.119	ug/L	0.006	4	103	420	3
[	Zn	66		0.509	ug/L	0.020	3	184	1112	4
[	Zn	67		0.685	ug/L	0.051	7	117	322	5
[	Zn	68		0.592	ug/L	0.070	11	4744	5289	2
[	As-1	75		0.325	ug/L	0.028	8	309	859	4
[	As	75	V	0.153	ug/L	0.029	18	7188	7100	1
[	Se	82		1.319	ug/L	0.105	7	-2	204	7
[	Se	78		0.775	ug/L	0.129	16	7264	7214	1
[	Mo	98		0.004	ug/L	0.002	47	35	58	19
	Y	89			ug/L			258568	252675	0
	Kr	83			ug/L			164	187	2
[>	In	115			ug/L			342647	326894	1
[	Ag	107	V	0.007	ug/L	0.002	28	102	173	13
[	Cd	111		-0.150	ug/L	0.043	28	148	-249	45
[	Cd	114		0.007	ug/L	0.003	44	23	62	26
[	Sb	121	V	-0.003	ug/L	0.002	59	158	124	14
[	Sb	123		-0.002	ug/L	0.001	57	125	102	10
[	Ba	135		7.230	ug/L	0.076	1	23	15050	2
[	Ba	137		7.200	ug/L	0.139	1	28	25261	1
[>	Tb	159			ug/L			358639	345054	0
[	Tl	205	V	0.009	ug/L	0.001	16	146	347	9
[	Pb	208		0.102	ug/L	0.004	3	641	3818	3
[	Bi	209			ug/L			288543	260396	0
[	Th	232		-0.002	ug/L	0.001	59	343	276	11
[	U	238		0.001	ug/L	0.000	28	65	116	12

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QI92 B REN
Sample Dil Factor: 10
Comments:
Sample Date/Time: Monday, March 29, 2010 15:18:15
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			346137	320141	0
[	Be	9	-0.001	ug/L	0.006	783	7	6	40
	C	13		mg/L			5980	7461	0
	Cl	37		mg/L			3044792	17707686	0
[>	Sc	45		ug/L			227993	218398	0
[	V-1	51	0.112	ug/L	0.084	75	1256	2310	35
[	V	51	5.445	ug/L	0.325	5	3318	57956	5
[	Cr	52	0.690	ug/L	0.013	1	4241	10116	0
[	Cr	53	17.019	ug/L	1.076	6	1138	18938	5
[	Mn	55	28.964	ug/L	0.197	0	336	417150	0
[	Co	59	0.148	ug/L	0.008	5	35	1715	5
[>	Ge	72		ug/L			322645	290795	0
[	Ni	60	1.506	ug/L	0.061	4	77	3499	4
[	Ni	62	9.297	ug/L	1.953	21	47	3243	20
[	Cu	63	6.979	ug/L	0.212	3	215	37051	2
[	Cu	65	J 0.499	ug/L	0.026	5	103	1370	4
[	Zn	66	1.209	ug/L	0.021	1	184	2278	1
[	Zn	67	2.518	ug/L	0.082	3	117	839	2
[	Zn	68	1.867	ug/L	0.107	5	4744	6604	2
[	As-1	75	1.588	ug/L	0.079	4	309	2898	3
[	As	75	J 0.222	ug/L	0.018	8	7188	6844	1
[	Se	82	6.521	ug/L	0.316	4	-2	969	4
[	Se	78	1.742	ug/L	0.025	1	7264	7203	0
[	Mo	98	0.026	ug/L	0.003	10	35	175	9
	Y	89		ug/L			258568	250165	0
	Kr	83		ug/L			164	319	6
[>	In	115		ug/L			342647	317612	1
[	Ag	107	J 0.014	ug/L	0.002	15	102	240	9
[	Cd	111	-0.700	ug/L	0.160	22	148	-1630	24
[	Cd	114	0.009	ug/L	0.001	15	23	72	10
[	Sb	121	J 0.009	ug/L	0.003	37	158	233	14
[	Sb	123	0.006	ug/L	0.003	38	125	162	10
[	Ba	135	35.171	ug/L	0.279	0	23	71054	0
[	Ba	137	35.270	ug/L	0.133	0	28	120154	1
[>	Tb	159		ug/L			358639	328832	1
[	Tl	205	J 0.009	ug/L	0.002	17	146	338	11
[	Pb	208	0.097	ug/L	0.007	7	641	3486	7
[	Bi	209		ug/L			288543	232107	0
[	Th	232	0.003	ug/L	0.001	24	343	403	7
[	U	238	0.003	ug/L	0.000	10	65	178	8

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QI92 BDUP REN
Sample Dil Factor: 10
Comments:
Sample Date/Time: Monday, March 29, 2010 15:25:06
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass		Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6			ug/L			346137	317486	0
[	Be	9		0.007	ug/L	0.007	96	7	9	28
	C	13			mg/L			5980	7374	2
	Cl	37			mg/L			3044792	17256162	1
[>	Sc	45			ug/L			227993	216693	2
[	V-1	51		-0.116	ug/L	0.106	90	1256	40	2581
[	V	51		6.598	ug/L	0.141	2	3318	69028	3
[	Cr	52		0.715	ug/L	0.025	3	4241	10252	1
[	Cr	53		21.270	ug/L	0.592	2	1138	23220	4
[	Mn	55		28.171	ug/L	0.595	2	336	402460	0
[	Co	59		0.131	ug/L	0.003	2	35	1514	1
[>	Ge	72			ug/L			322645	289503	0
[	Ni	60		1.516	ug/L	0.021	1	77	3505	1
[	Ni	62		17.591	ug/L	3.434	19	47	6083	20
[	Cu	63		7.393	ug/L	0.294	3	215	39080	4
[	Cu	65		0.532	ug/L	0.027	5	103	1447	5
[	Zn	66		1.215	ug/L	0.041	3	184	2278	2
[	Zn	67		3.131	ug/L	0.135	4	117	1013	4
[	Zn	68		1.882	ug/L	0.030	1	4744	6593	0
[	As-1	75		1.609	ug/L	0.102	6	309	2920	5
[	As	75	U	0.300	ug/L	0.079	26	7188	6942	2
[	Se	82		6.268	ug/L	0.197	3	-2	927	2
[	Se	78		1.931	ug/L	0.123	6	7264	7242	0
[	Mo	98		0.024	ug/L	0.002	8	35	163	7
	Y	89			ug/L			258568	249944	1
	Kr	83			ug/L			164	347	6
[>	In	115			ug/L			342647	317241	0
[	Ag	107	U	0.009	ug/L	0.003	34	102	187	16
[	Cd	111		-0.739	ug/L	0.163	22	148	-1728	24
[	Cd	114		0.004	ug/L	0.000	4	23	46	1
[	Sb	121	U	0.007	ug/L	0.000	1	158	210	0
[	Sb	123		0.005	ug/L	0.001	18	125	154	4
[	Ba	135		34.045	ug/L	0.391	1	23	68698	0
[	Ba	137		34.171	ug/L	0.098	0	28	116272	0
[>	Tb	159			ug/L			358639	327207	0
[	Tl	205	U	0.005	ug/L	0.001	25	146	246	12
[	Pb	208		0.090	ug/L	0.003	3	641	3268	3
[	Bi	209			ug/L			288543	230833	0
[	Th	232		0.001	ug/L	0.000	29	343	360	4
[	U	238		0.003	ug/L	0.000	17	65	153	10

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QI92 BSPK REN
Sample Dil Factor: 10
Comments:
Sample Date/Time: Monday, March 29, 2010 15:31:58
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			346137	319881	0
[	Be	9	5.197	ug/L	0.160	3	7	2066	3
	C	13		mg/L			5980	7370	2
	Cl	37		mg/L			3044792	17954813	1
[>	Sc	45		ug/L			227993	223002	1
[	V-1	51	5.272	ug/L	0.151	2	1256	54409	2
[	V	51	13.064	ug/L	0.191	1	3318	137462	1
[	Cr	52	5.817	ug/L	0.105	1	4241	56235	0
[	Cr	53	29.694	ug/L	0.971	3	1138	32914	3
[	Mn	55	33.270	ug/L	0.479	1	336	489173	1
[	Co	59	5.127	ug/L	0.121	2	35	59575	1
[>	Ge	72		ug/L			322645	300060	0
[	Ni	60	6.670	ug/L	0.158	2	77	15737	1
[	Ni	62	47.428	ug/L	8.798	18	47	16917	18
[	Cu	63	14.324	ug/L	0.629	4	215	78285	4
[	Cu	65	5.670	ug/L	0.085	1	103	15065	1
[	Zn	66	16.614	ug/L	0.272	1	184	30129	0
[	Zn	67	18.130	ug/L	0.431	2	117	5558	2
[	Zn	68	16.814	ug/L	0.092	0	4744	26052	1
[	As-1	75	6.724	ug/L	0.120	1	309	11731	1
[	As	75	5.494	ug/L	0.143	2	7188	16025	1
[	Se	82	20.309	ug/L	0.194	0	-2	3119	0
[	Se	78	16.741	ug/L	0.184	1	7264	13263	0
[	Mo	98	5.695	ug/L	0.051	0	35	32752	0
	Y	89		ug/L			258568	254880	0
	Kr	83		ug/L			164	419	5
[>	In	115		ug/L			342647	328283	1
[	Ag	107	4.807	ug/L	0.012	0	102	52037	1
[	Cd	111	4.027	ug/L	0.258	6	148	10673	6
[	Cd	114	4.988	ug/L	0.032	0	23	30839	0
[	Sb	121	5.329	ug/L	0.095	1	158	52078	0
[	Sb	123	5.327	ug/L	0.082	1	125	39493	1
[	Ba	135	39.712	ug/L	0.336	0	23	82918	0
[	Ba	137	39.967	ug/L	0.469	1	28	140713	1
[>	Tb	159		ug/L			358639	341401	2
[	Tl	205	4.862	ug/L	0.075	1	146	114127	1
[	Pb	208	4.996	ug/L	0.086	1	641	155760	0
[	Bi	209		ug/L			288543	236388	0
[	Th	232	4.930	ug/L	0.142	2	343	175386	0
[	U	238	5.114	ug/L	0.146	2	65	190850	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV3
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, March 29, 2010 15:38:48
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			346137	314644	1
[	Be	9	51.224	ug/L	0.159	0	7	19973	1
	C	13		mg/L			5980	4451	2
	Cl	37		mg/L			3044792	3475449	0
[>	Sc	45		ug/L			227993	236636	0
[	V-1	51	49.634	ug/L	0.479	0	1256	532735	1
[	V	51	52.138	ug/L	0.437	0	3318	571873	1
[	Cr	52	49.708	ug/L	0.404	0	4241	476796	0
[	Cr	53	57.386	ug/L	0.425	0	1138	66394	0
[	Mn	55	50.385	ug/L	0.287	0	336	786008	0
[	Co	59	50.571	ug/L	0.261	0	35	623354	0
[>	Ge	72		ug/L			322645	346388	0
[	Ni	60	49.388	ug/L	1.102	2	77	133976	1
[	Ni	62	53.819	ug/L	1.180	2	47	22139	1
[	Cu	63	50.816	ug/L	0.586	1	215	319951	0
[	Cu	65	50.719	ug/L	0.181	0	103	154677	1
[	Zn	66	49.598	ug/L	0.865	1	184	103440	0
[	Zn	67	51.055	ug/L	1.161	2	117	17837	2
[	Zn	68	49.769	ug/L	0.915	1	4744	79029	1
[	As-1	75	49.690	ug/L	0.490	0	309	97959	0
[	As	75	49.755	ug/L	0.463	0	7188	105358	0
[	Se	82	50.070	ug/L	1.011	2	-2	8881	1
[	Se	78	50.425	ug/L	0.910	1	7264	30422	0
[	Mo	98	48.539	ug/L	0.490	1	35	321998	1
	Y	89		ug/L			258568	261460	0
	Kr	83		ug/L			164	195	2
[>	In	115		ug/L			342647	366098	0
[	Ag	107	51.713	ug/L	0.557	1	102	623258	0
[	Cd	111	49.933	ug/L	0.354	0	148	145726	0
[	Cd	114	49.737	ug/L	0.106	0	23	342704	0
[	Sb	121	50.304	ug/L	0.127	0	158	546892	0
[	Sb	123	50.131	ug/L	0.449	0	125	413348	0
[	Ba	135	50.655	ug/L	0.201	0	23	117947	0
[	Ba	137	50.617	ug/L	0.361	0	28	198735	0
[>	Tb	159		ug/L			358639	363288	0
[	Tl	205	49.423	ug/L	0.575	1	146	1233188	0
[	Pb	208	50.954	ug/L	0.301	0	641	1684725	0
[	Bi	209		ug/L			288543	286906	0
[	Th	232	49.302	ug/L	0.357	0	343	1864152	0
[	U	238	49.115	ug/L	0.552	1	65	1950842	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB3
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, March 29, 2010 15:46:16
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			346137	309409	1
[	Be	9	0.005	ug/L	0.005	94	7	8	22
	C	13		mg/L			5980	5635	0
	Cl	37		mg/L			3044792	3499140	0
[>	Sc	45		ug/L			227993	243046	0
[	V-1	51	-0.089	ug/L	0.025	27	1256	364	74
[	V	51	1.790	ug/L	0.086	4	3318	23580	4
[	Cr	52	0.088	ug/L	0.012	13	4241	5383	1
[	Cr	53	5.843	ug/L	0.339	5	1138	8032	4
[	Mn	55	0.021	ug/L	0.004	17	336	699	8
[	Co	59	0.002	ug/L	0.001	24	35	64	10
[>	Ge	72		ug/L			322645	356856	0
[	Ni	60	-0.006	ug/L	0.003	50	77	69	12
[	Ni	62	1.286	ug/L	0.183	14	47	595	12
[	Cu	63	0.139	ug/L	0.017	11	215	1141	9
[	Cu	65	0.008	ug/L	0.005	65	103	140	11
[	Zn	66	0.012	ug/L	0.019	156	184	229	17
[	Zn	67	1.024	ug/L	0.007	0	117	495	0
[	Zn	68	0.113	ug/L	0.038	33	4744	5420	0
[	As-1	75	-0.003	ug/L	0.006	182	309	335	4
[	As	75	0.082	ug/L	0.017	20	7188	8116	0
[	Se	82	0.030	ug/L	0.089	291	-2	2	561
[	Se	78	0.402	ug/L	0.071	17	7264	8220	0
[	Mo	98	0.006	ug/L	0.002	38	35	77	19
	Y	89		ug/L			258568	273044	0
	Kr	83		ug/L			164	181	5
[>	In	115		ug/L			342647	381466	0
[	Ag	107	0.000	ug/L	0.001	438	102	117	12
[	Cd	111	0.011	ug/L	0.006	60	148	198	9
[	Cd	114	0.003	ug/L	0.001	36	23	49	16
[	Sb	121	0.012	ug/L	0.003	26	158	310	11
[	Sb	123	0.013	ug/L	0.004	33	125	251	14
[	Ba	135	0.000	ug/L	0.004	1464	23	26	39
[	Ba	137	0.001	ug/L	0.001	144	28	34	9
[>	Tb	159		ug/L			358639	377676	1
[	Tl	205	0.024	ug/L	0.005	19	146	783	14
[	Pb	208	0.027	ug/L	0.009	31	641	1611	16
[	Bi	209		ug/L			288543	296883	1
[	Th	232	0.005	ug/L	0.003	47	343	572	15
[	U	238	0.002	ug/L	0.001	46	65	148	23

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QI92 E REN
Sample Dil Factor: 5
Comments:
Sample Date/Time: Monday, March 29, 2010 15:53:45
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			346137	322614	0
[	Be	9	0.002	ug/L	0.000	3	7	7	0
	C	13		mg/L			5980	6168	0
	Cl	37		mg/L			3044792	14878605	1
[>	Sc	45		ug/L			227993	234803	0
[	V-1	51	-0.219	ug/L	0.095	43	1256	-1038	97
[	V	51	4.862	ug/L	0.264	5	3318	56021	5
[	Cr	52	2.691	ug/L	0.025	0	4241	29744	1
[	Cr	53	18.119	ug/L	0.890	4	1138	21608	5
[	Mn	55	2.152	ug/L	0.002	0	336	33647	0
[	Co	59	0.833	ug/L	0.023	2	35	10223	3
[>	Ge	72		ug/L			322645	320416	1
[	Ni	60	14.040	ug/L	0.313	2	77	35288	2
[	Ni	62	60.746	ug/L	24.280	39	47	23173	41
[	Cu	63	19.569	ug/L	2.208	11	215	114186	12
[	Cu	65	12.091	ug/L	0.248	2	103	34181	1
[	Zn	66	519.592	ug/L	7.474	1	184	1000741	1
[	Zn	67	464.505	ug/L	5.819	1	117	149164	1
[	Zn	68	506.827	ug/L	6.900	1	4744	701200	1
[	As-1	75	0.677	ug/L	0.071	10	309	1537	7
[	As	75	0.419	ug/L	0.100	23	7188	7899	2
[	Se	82	1.593	ug/L	0.190	11	-2	258	11
[	Se	78	1.528	ug/L	0.457	29	7264	7849	2
[	Mo	98	4.596	ug/L	0.083	1	35	28237	2
	Y	89		ug/L			258568	268191	0
	Kr	83		ug/L			164	336	8
[>	In	115		ug/L			342647	344149	1
[	Ag	107	4.074	ug/L	0.058	1	102	46249	0
[	Cd	111	13.934	ug/L	0.166	1	148	38340	2
[	Cd	114	14.544	ug/L	0.228	1	23	94211	1
[	Sb	121	2.526	ug/L	0.035	1	158	25972	2
[	Sb	123	2.500	ug/L	0.006	0	125	19497	0
[	Ba	135	17.379	ug/L	0.215	1	23	38056	1
[	Ba	137	17.521	ug/L	0.126	0	28	64692	1
[>	Tb	159		ug/L			358639	354340	1
[	Tl	205	V 0.008	ug/L	0.000	5	146	332	2
[	Pb	208	1.765	ug/L	0.014	0	641	57537	0
[	Bi	209		ug/L			288543	252633	1
[	Th	232	0.014	ug/L	0.002	11	343	845	8
[	U	238	0.015	ug/L	0.002	10	65	635	8

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QI92 J REN
Sample Dil Factor: 5
Comments:
Sample Date/Time: Monday, March 29, 2010 16:00:37
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			346137	323764	1
[	Be	9	U 0.001	ug/L	0.015	1269	7	7	83
	C	13		mg/L			5980	7973	2
	Cl	37		mg/L			3044792	15282284	1
[>	Sc	45		ug/L			227993	244927	0
[	V-1	51	1.171	ug/L	0.008	0	1256	14324	0
[	V	51	6.565	ug/L	0.159	2	3318	77651	2
[	Cr	52	2.568	ug/L	0.069	2	4241	29819	2
[	Cr	53	19.042	ug/L	0.559	2	1138	23621	3
[	Mn	55	0.338	ug/L	0.003	1	336	5811	0
[	Co	59	0.788	ug/L	0.012	1	35	10095	1
[>	Ge	72		ug/L			322645	344295	0
[	Ni	60	13.198	ug/L	0.343	2	77	35653	2
[	Ni	62	139.293	ug/L	24.999	17	47	56902	18
[	Cu	63	22.687	ug/L	1.884	8	215	142137	8
[	Cu	65	9.156	ug/L	0.151	1	103	27843	1
[	Zn	66	489.197	ug/L	4.480	0	184	1012457	0
[	Zn	67	438.818	ug/L	3.772	0	117	151441	1
[	Zn	68	478.132	ug/L	0.834	0	4744	711130	0
[	As-1	75	0.597	ug/L	0.129	21	309	1496	16
[	As	75	0.539	ug/L	0.109	20	7188	8721	2
[	Se	82	0.846	ug/L	0.036	4	-2	146	3
[	Se	78	2.154	ug/L	0.158	7	7264	8713	1
[	Mo	98	4.418	ug/L	0.062	1	35	29167	1
	Y	89		ug/L			258568	281721	1
	Kr	83		ug/L			164	450	6
[>	In	115		ug/L			342647	367788	1
[	Ag	107	3.633	ug/L	0.099	2	102	44076	1
[	Cd	111	13.579	ug/L	0.184	1	148	39924	0
[	Cd	114	14.022	ug/L	0.155	1	23	97068	1
[	Sb	121	2.432	ug/L	0.021	0	158	26721	1
[	Sb	123	2.439	ug/L	0.034	1	125	20326	1
[	Ba	135	16.431	ug/L	0.185	1	23	38448	0
[	Ba	137	16.574	ug/L	0.288	1	28	65385	0
[>	Tb	159		ug/L			358639	372682	0
[	Tl	205	U 0.005	ug/L	0.001	13	146	277	6
[	Pb	208	U 0.606	ug/L	0.002	0	641	21221	0
[	Bi	209		ug/L			288543	258796	0
[	Th	232	0.001	ug/L	0.001	67	343	399	7
[	U	238	0.013	ug/L	0.001	5	65	590	5

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QI95 A REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, March 29, 2010 16:08:26
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			346137	325534	0
[	Be	9	U 0.089	ug/L	0.017	18	7	42	15
	C	13		mg/L			5980	10403	0
	Cl	37		mg/L			3044792	7265272	0
[>	Sc	45		ug/L			227993	312180	2
[	V-1	51	8.307	ug/L	0.050	0	1256	119050	1
[	V	51	10.616	ug/L	0.105	0	3318	157214	1
[	Cr	52	2.062	ug/L	0.004	0	4241	31656	1
[	Cr	53	9.490	ug/L	0.180	1	1138	15781	0
[	Mn	55	2013.181	ug/L	9.969	0	336	41410780	1
[	Co	59	0.304	ug/L	0.002	0	35	4987	2
[>	Ge	72		ug/L			322645	350984	0
[	Ni	60	1.007	ug/L	0.013	1	77	2850	1
[	Ni	62	53.777	ug/L	4.003	7	47	22411	6
[	Cu	63	5.981	ug/L	0.297	4	215	38359	4
[	Cu	65	0.661	ug/L	0.017	2	103	2153	3
[	Zn	66	5.773	ug/L	0.145	2	184	12379	3
[	Zn	67	8.763	ug/L	0.158	1	117	3207	1
[	Zn	68	7.206	ug/L	0.100	1	4744	16009	0
[	As-1	75	0.634	ug/L	0.026	4	309	1600	3
[	As	75	0.390	ug/L	0.006	1	7188	8594	0
[	Se	82	1.686	ug/L	0.087	5	-2	300	5
[	Se	78	1.052	ug/L	0.047	4	7264	8381	0
[	Mo	98	0.137	ug/L	0.005	3	35	957	3
	Y	89		ug/L			258568	305872	2
	Kr	83		ug/L			164	255	4
[>	In	115		ug/L			342647	372868	1
[	Ag	107	U 0.044	ug/L	0.002	4	102	655	1
[	Cd	111	-0.097	ug/L	0.048	49	148	-125	113
[	Cd	114	0.060	ug/L	0.004	6	23	447	4
[	Sb	121	U 0.020	ug/L	0.001	4	158	397	3
[	Sb	123	U 0.020	ug/L	0.001	4	125	306	2
[	Ba	135	53.199	ug/L	0.253	0	23	126171	2
[	Ba	137	53.158	ug/L	0.393	0	28	212559	1
[>	Tb	159		ug/L			358639	371481	2
[	Tl	205	U 0.053	ug/L	0.002	3	146	1502	4
[	Pb	208	U 0.214	ug/L	0.001	0	641	7882	1
[	Bi	209		ug/L			288543	273389	2
[	Th	232	0.073	ug/L	0.003	4	343	3172	2
[	U	238	0.053	ug/L	0.003	5	65	2222	3

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QI95 B REN
Sample Dil Factor: 5
Comments:
Sample Date/Time: Monday, March 29, 2010 16:15:11
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			346137	296537	0
[	Be	9	U 0.013	ug/L	0.014	106	7	10	46
	C	13		mg/L			5980	8217	1
	Cl	37		mg/L			3044792	10859207	0
[>	Sc	45		ug/L			227993	244972	1
[	V-1	51	1.893	ug/L	0.041	2	1256	22333	3
[	V	51	5.367	ug/L	0.034	0	3318	64139	0
[	Cr	52	0.658	ug/L	0.003	0	4241	11029	1
[	Cr	53	11.385	ug/L	0.156	1	1138	14615	0
[	Mn	55	508.171	ug/L	2.746	0	336	8203405	1
[	Co	59	0.169	ug/L	0.001	0	35	2196	1
[>	Ge	72		ug/L			322645	312450	1
[	Ni	60	0.649	ug/L	0.020	3	77	1661	3
[	Ni	62	138.900	ug/L	20.497	14	47	51402	13
[	Cu	63	14.246	ug/L	1.604	11	215	80975	9
[	Cu	65	0.575	ug/L	0.013	2	103	1681	3
[	Zn	66	1.317	ug/L	0.009	0	184	2651	2
[	Zn	67	3.478	ug/L	0.091	2	117	1201	2
[	Zn	68	2.181	ug/L	0.103	4	4744	7515	0
[	As-1	75	1.159	ug/L	0.062	5	309	2353	4
[	As	75	0.656	ug/L	0.039	5	7188	8122	1
[	Se	82	3.910	ug/L	0.104	2	-2	623	3
[	Se	78	2.816	ug/L	0.099	3	7264	8174	1
[	Mo	98	0.014	ug/L	0.004	26	35	120	19
	Y	89		ug/L			258568	255637	1
	Kr	83		ug/L			164	332	0
[>	In	115		ug/L			342647	331990	1
[	Ag	107	U 0.002	ug/L	0.002	111	102	121	18
[	Cd	111	-0.471	ug/L	0.104	22	148	-1100	24
[	Cd	114	0.002	ug/L	0.001	61	23	35	21
[	Sb	121	U -0.004	ug/L	0.002	51	158	117	14
[	Sb	123	-0.004	ug/L	0.001	29	125	91	11
[	Ba	135	21.814	ug/L	0.410	1	23	46071	2
[	Ba	137	21.854	ug/L	0.471	2	28	77813	1
[>	Tb	159		ug/L			358639	341021	0
[	Tl	205	U 0.001	ug/L	0.001	119	146	152	11
[	Pb	208	U 0.103	ug/L	0.003	2	641	3802	2
[	Bi	209		ug/L			288543	245039	0
[	Th	232	0.003	ug/L	0.001	24	343	432	6
[	U	238	0.000	ug/L	0.000	31	65	76	4

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QI95 G REN
Sample Dil Factor: 5
Comments:
Sample Date/Time: Monday, March 29, 2010 16:22:57
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
>	Li	6		ug/L			346137	294688	0
	Be	9	U 0.010	ug/L	0.009	88	7	9	32
	C	13		mg/L			5980	7881	1
	Cl	37		mg/L			3044792	10675183	0
>	Sc	45		ug/L			227993	240944	1
	V-1	51	1.368	ug/L	0.047	3	1256	16235	3
	V	51	4.842	ug/L	0.055	1	3318	57255	0
	Cr	52	0.556	ug/L	0.007	1	4241	9861	1
	Cr	53	11.262	ug/L	0.151	1	1138	14232	0
	Mn	55	508.140	ug/L	0.264	0	336	8068007	1
	Co	59	0.136	ug/L	0.012	8	35	1740	10
>	Ge	72		ug/L			322645	305646	1
	Ni	60	0.641	ug/L	0.033	5	77	1607	3
	Ni	62	169.642	ug/L	21.125	12	47	61417	11
	Cu	63	15.763	ug/L	1.431	9	215	87647	7
	Cu	65	U 0.321	ug/L	0.007	2	103	962	0
	Zn	66	1.310	ug/L	0.042	3	184	2581	1
	Zn	67	3.250	ug/L	0.234	7	117	1105	5
	Zn	68	2.066	ug/L	0.107	5	4744	7203	3
	As-1	75	1.104	ug/L	0.054	4	309	2208	5
	As	75	0.627	ug/L	0.020	3	7188	7894	1
	Se	82	3.707	ug/L	0.307	8	-2	578	9
	Se	78	2.826	ug/L	0.179	6	7264	8000	1
	Mo	98	0.010	ug/L	0.002	18	35	94	10
	Y	89		ug/L			258568	249320	2
	Kr	83		ug/L			164	341	6
>	In	115		ug/L			342647	326078	2
	Ag	107	U 0.001	ug/L	0.002	172	102	107	14
	Cd	111	-0.346	ug/L	0.085	24	148	-753	28
	Cd	114	0.001	ug/L	0.003	262	23	28	58
	Sb	121	U -0.004	ug/L	0.001	20	158	115	3
	Sb	123	-0.007	ug/L	0.001	11	125	65	7
	Ba	135	14.806	ug/L	0.222	1	23	30714	1
	Ba	137	15.031	ug/L	0.298	1	28	52568	0
>	Tb	159		ug/L			358639	334739	0
	Tl	205	U -0.000	ug/L	0.001	255	146	127	18
	Pb	208	U 0.086	ug/L	0.005	6	641	3211	4
	Bi	209		ug/L			288543	243238	1
	Th	232	0.001	ug/L	0.000	3	343	368	0
	U	238	0.000	ug/L	0.000	209	65	65	12

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QI95 H REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, March 29, 2010 16:30:44
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			346137	303036	1
[	Be	9	U 0.017	ug/L	0.015	87	7	12	43
	C	13		mg/L			5980	9579	0
	Cl	37		mg/L			3044792	3812154	0
[>	Sc	45		ug/L			227993	297662	1
[	V-1	51	5.417	ug/L	0.092	1	1256	74591	0
[	V	51	7.151	ug/L	0.099	1	3318	102393	0
[	Cr	52	1.282	ug/L	0.036	2	4241	20854	0
[	Cr	53	6.829	ug/L	0.063	0	1138	11247	0
[	Mn	55	385.988	ug/L	1.540	0	336	7571515	1
[	Co	59	0.117	ug/L	0.001	0	35	1859	1
[>	Ge	72		ug/L			322645	336297	0
[	Ni	60	1.098	ug/L	0.027	2	77	2972	1
[	Ni	62	37.442	ug/L	4.402	11	47	14963	11
[	Cu	63	2.826	ug/L	0.317	11	215	17478	10
[	Cu	65	U 0.420	ug/L	0.018	4	103	1351	4
[	Zn	66	1.291	ug/L	0.026	2	184	2801	1
[	Zn	67	2.928	ug/L	0.145	4	117	1108	3
[	Zn	68	1.761	ug/L	0.022	1	4744	7484	0
[	As-1	75	0.349	ug/L	0.010	2	309	989	2
[	As	75	0.388	ug/L	0.022	5	7188	8231	0
[	Se	82	0.515	ug/L	0.110	21	-2	86	22
[	Se	78	0.841	ug/L	0.145	17	7264	7938	0
[	Mo	98	2.607	ug/L	0.014	0	35	16826	0
	Y	89		ug/L			258568	273638	0
	Kr	83		ug/L			164	198	5
[>	In	115		ug/L			342647	358510	1
[	Ag	107	U -0.001	ug/L	0.001	132	102	99	11
[	Cd	111	-0.026	ug/L	0.009	34	148	82	31
[	Cd	114	0.008	ug/L	0.001	7	23	80	5
[	Sb	121	U 0.018	ug/L	0.001	7	158	360	3
[	Sb	123	0.018	ug/L	0.003	17	125	276	8
[	Ba	135	7.063	ug/L	0.092	1	23	16124	0
[	Ba	137	7.110	ug/L	0.155	2	28	27360	1
[>	Tb	159		ug/L			358639	360579	1
[	Tl	205	U 0.010	ug/L	0.000	2	146	390	0
[	Pb	208	U 0.063	ug/L	0.003	4	641	2721	4
[	Bi	209	U	ug/L			288543	276451	0
[	Th	232	0.009	ug/L	0.001	8	343	675	3
[	U	238	0.010	ug/L	0.001	8	65	457	5

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QM99 A REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, March 29, 2010 16:37:30
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			346137	298468	0
[	Be	9	0.014	ug/L	0.006	41	7	11	19
	C	13		mg/L			5980	7764	0
	Cl	37		mg/L			3044792	3263159	0
[>	Sc	45		ug/L			227993	238798	0
[	V-1	51	1.099	ug/L	0.024	2	1256	13192	1
[	V	51	2.625	ug/L	0.067	2	3318	32353	2
[	Cr	52	0.752	ug/L	0.019	2	4241	11654	1
[	Cr	53	5.452	ug/L	0.285	5	1138	7444	4
[	Mn	55	45.065	ug/L	0.134	0	336	709471	0
[	Co	59	0.101	ug/L	0.004	4	35	1290	4
[>	Ge	72		ug/L			322645	334053	1
[	Ni	60	1.605	ug/L	0.014	0	77	4276	0
[	Ni	62	16.938	ug/L	0.802	4	47	6756	5
[	Cu	63	4.655	ug/L	0.083	1	215	28475	2
[	Cu	65	3.952	ug/L	0.041	1	103	11724	2
[	Zn	66	17.231	ug/L	0.048	0	184	34786	1
[	Zn	67	16.786	ug/L	0.116	0	117	5737	1
[	Zn	68	17.347	ug/L	0.085	0	4744	29766	1
[	As-1	75	0.956	ug/L	0.043	4	309	2132	4
[	As	75	1.061	ug/L	0.072	6	7188	9450	1
[	Se	82	0.278	ug/L	0.020	7	-2	45	6
[	Se	78	0.743	ug/L	0.144	19	7264	7843	0
[	Mo	98	0.710	ug/L	0.018	2	35	4575	1
	Y	89		ug/L			258568	257570	1
	Kr	83		ug/L			164	172	4
[>	In	115		ug/L			342647	359886	0
[	Ag	107	-0.000	ug/L	0.001	387	102	103	15
[	Cd	111	0.033	ug/L	0.010	29	148	251	10
[	Cd	114	0.017	ug/L	0.002	9	23	136	7
[	Sb	121	0.252	ug/L	0.007	2	158	2861	1
[	Sb	123	0.254	ug/L	0.001	0	125	2186	1
[	Ba	135	10.631	ug/L	0.123	1	23	24353	1
[	Ba	137	10.660	ug/L	0.160	1	28	41166	0
[>	Tb	159		ug/L			358639	359442	0
[	Tl	205	0.013	ug/L	0.000	1	146	473	2
[	Pb	208	0.084	ug/L	0.003	3	641	3375	2
[	Bi	209		ug/L			288543	286863	0
[	Th	232	0.005	ug/L	0.000	6	343	524	1
[	U	238	0.293	ug/L	0.006	2	65	11568	2

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QM99 B REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, March 29, 2010 16:44:18
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
>	Li	6		ug/L			346137	302654	1
	Be	9	0.012	ug/L	0.008	60	7	10	24
	C	13		mg/L			5980	7862	1
	Cl	37		mg/L			3044792	3234929	0
>	Sc	45		ug/L			227993	243114	0
	V-1	51	1.055	ug/L	0.030	2	1256	12947	2
	V	51	2.353	ug/L	0.002	0	3318	29891	1
	Cr	52	0.643	ug/L	0.010	1	4241	10798	1
	Cr	53	4.646	ug/L	0.089	1	1138	6638	2
	Mn	55	57.328	ug/L	1.056	1	336	918664	1
	Co	59	0.123	ug/L	0.004	3	35	1599	3
>	Ge	72		ug/L			322645	331294	0
	Ni	60	2.001	ug/L	0.049	2	77	5269	1
	Ni	62	11.208	ug/L	0.368	3	47	4449	4
	Cu	63	7.883	ug/L	0.021	0	215	47662	0
	Cu	65	7.474	ug/L	0.082	1	103	21889	0
	Zn	66	21.062	ug/L	0.294	1	184	42122	1
	Zn	67	20.101	ug/L	0.387	1	117	6790	2
	Zn	68	21.275	ug/L	0.329	1	4744	35102	1
	As-1	75	0.978	ug/L	0.023	2	309	2156	2
	As	75	1.026	ug/L	0.031	3	7188	9306	1
	Se	82	0.196	ug/L	0.016	7	-2	30	9
	Se	78	0.465	ug/L	0.072	15	7264	7658	0
	Mo	98	0.720	ug/L	0.019	2	35	4603	2
	Y	89		ug/L			258568	259840	0
	Kr	83		ug/L			164	179	3
>	In	115		ug/L			342647	360664	0
	Ag	107	-0.001	ug/L	0.001	81	102	97	8
	Cd	111	0.027	ug/L	0.003	9	148	233	2
	Cd	114	0.018	ug/L	0.003	17	23	150	14
	Sb	121	0.278	ug/L	0.004	1	158	3147	1
	Sb	123	0.275	ug/L	0.012	4	125	2364	3
	Ba	135	11.116	ug/L	0.041	0	23	25518	1
	Ba	137	11.210	ug/L	0.131	1	28	43381	0
>	Tb	159		ug/L			358639	361956	0
	Tl	205	0.009	ug/L	0.001	8	146	364	5
	Pb	208	U 0.114	ug/L	0.002	1	641	4385	0
	Bi	209		ug/L			288543	288975	0
	Th	232	0.004	ug/L	0.000	7	343	508	1
	U	238	0.302	ug/L	0.004	1	65	12015	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QM99 C REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, March 29, 2010 16:51:06
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			346137	308503	0
[	Be	9	0.007	ug/L	0.005	64	7	9	20
	C	13		mg/L			5980	6599	1
	Cl	37		mg/L			3044792	3390500	0
[>	Sc	45		ug/L			227993	237550	0
[	V-1	51	0.011	ug/L	0.035	321	1256	1425	26
[	V	51	1.222	ug/L	0.033	2	3318	16835	2
[	Cr	52	0.178	ug/L	0.006	3	4241	6122	0
[	Cr	53	3.886	ug/L	0.018	0	1138	5619	0
[	Mn	55	1.101	ug/L	0.007	0	336	17588	0
[	Co	59	0.008	ug/L	0.000	3	35	135	2
[>	Ge	72		ug/L			322645	339151	0
[	Ni	60	0.078	ug/L	0.006	7	77	289	5
[	Ni	62	5.394	ug/L	0.322	5	47	2217	6
[	Cu	63	0.480	ug/L	0.016	3	215	3185	3
[	Cu	65	0.268	ug/L	0.019	6	103	909	6
[	Zn	66	11.679	ug/L	0.176	1	184	23998	1
[	Zn	67	11.276	ug/L	0.017	0	117	3953	0
[	Zn	68	11.604	ug/L	0.047	0	4744	21866	0
[	As-1	75	0.033	ug/L	0.027	83	309	388	13
[	As	75	0.037	ug/L	0.048	128	7188	7627	0
[	Se	82	-0.010	ug/L	0.024	231	-2	-4	97
[	Se	78	0.058	ug/L	0.188	323	7264	7661	0
[	Mo	98	0.005	ug/L	0.002	40	35	72	19
	Y	89		ug/L			258568	260789	0
	Kr	83		ug/L			164	181	3
[>	In	115		ug/L			342647	370587	1
[	Ag	107	-0.003	ug/L	0.001	29	102	68	18
[	Cd	111	0.006	ug/L	0.003	43	148	179	5
[	Cd	114	0.003	ug/L	0.002	69	23	47	31
[	Sb	121	-0.003	ug/L	0.000	9	158	135	3
[	Sb	123	-0.005	ug/L	0.001	25	125	90	11
[	Ba	135	0.136	ug/L	0.013	9	23	345	9
[	Ba	137	0.126	ug/L	0.002	1	28	532	1
[>	Tb	159		ug/L			358639	362262	0
[	Tl	205	0.003	ug/L	0.001	18	146	220	5
[	Pb	208	0.024	ug/L	0.001	5	641	1428	2
[	Bi	209		ug/L			288543	291370	0
[	Th	232	-0.004	ug/L	0.001	12	343	182	10
[	U	238	0.001	ug/L	0.000	33	65	107	12

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QM99 D REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, March 29, 2010 16:57:54
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			346137	310751	0
[	Be	9	-0.006	ug/L	0.005	87	7	4	45
	C	13		mg/L			5980	6592	2
	Cl	37		mg/L			3044792	3460508	0
[>	Sc	45		ug/L			227993	238426	1
[	V-1	51	-0.001	ug/L	0.002	276	1256	1306	1
[	V	51	1.101	ug/L	0.039	3	3318	15555	1
[	Cr	52	0.290	ug/L	0.010	3	4241	7208	1
[	Cr	53	3.652	ug/L	0.127	3	1138	5371	1
[	Mn	55	0.182	ug/L	0.006	3	336	3217	2
[	Co	59	0.039	ug/L	0.001	1	35	517	0
[>	Ge	72		ug/L			322645	338527	0
[	Ni	60	0.091	ug/L	0.012	12	77	324	9
[	Ni	62	3.614	ug/L	0.279	7	47	1499	7
[	Cu	63	V 0.304	ug/L	0.011	3	215	2096	2
[	Cu	65	0.169	ug/L	0.002	1	103	610	0
[	Zn	66	6.324	ug/L	0.113	1	184	13059	1
[	Zn	67	6.435	ug/L	0.124	1	117	2305	1
[	Zn	68	6.394	ug/L	0.123	1	4744	14261	1
[	As-1	75	-0.007	ug/L	0.011	146	309	310	6
[	As	75	-0.008	ug/L	0.039	513	7188	7527	0
[	Se	82	-0.025	ug/L	0.036	144	-2	-6	91
[	Se	78	0.001	ug/L	0.197	13564	7264	7622	0
[	Mo	98	0.206	ug/L	0.008	4	35	1370	3
	Y	89		ug/L			258568	259690	1
	Kr	83		ug/L			164	177	3
[>	In	115		ug/L			342647	367408	0
[	Ag	107	-0.005	ug/L	0.001	15	102	53	16
[	Cd	111	0.016	ug/L	0.006	35	148	205	7
[	Cd	114	0.006	ug/L	0.001	21	23	68	12
[	Sb	121	-0.008	ug/L	0.001	14	158	87	13
[	Sb	123	-0.006	ug/L	0.002	29	125	86	16
[	Ba	135	0.079	ug/L	0.005	6	23	208	5
[	Ba	137	0.082	ug/L	0.004	4	28	353	4
[>	Tb	159		ug/L			358639	362700	0
[	Tl	205	0.001	ug/L	0.001	72	146	176	12
[	Pb	208	V 0.017	ug/L	0.001	3	641	1204	2
[	Bi	209		ug/L			288543	292957	1
[	Th	232	-0.005	ug/L	0.000	2	343	151	4
[	U	238	0.000	ug/L	0.000	191	65	74	20

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV4
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, March 29, 2010 17:04:43
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
>	Li	6		ug/L			346137	301043	1
	Be	9	51.004	ug/L	1.220	2	7	19026	2
	C	13		mg/L			5980	4604	0
	Cl	37		mg/L			3044792	3452761	0
>	Sc	45		ug/L			227993	233851	1
	V-1	51	49.184	ug/L	0.713	1	1256	521630	0
	V	51	50.309	ug/L	0.717	1	3318	545363	0
	Cr	52	49.200	ug/L	0.811	1	4241	466348	0
	Cr	53	52.651	ug/L	0.825	1	1138	60286	0
	Mn	55	50.438	ug/L	0.624	1	336	777515	1
	Co	59	49.762	ug/L	0.678	1	35	606097	0
>	Ge	72		ug/L			322645	333148	0
	Ni	60	49.856	ug/L	0.934	1	77	130078	1
	Ni	62	52.652	ug/L	0.884	1	47	20833	0
	Cu	63	51.049	ug/L	0.846	1	215	309119	0
	Cu	65	50.897	ug/L	0.313	0	103	149280	0
	Zn	66	50.504	ug/L	0.279	0	184	101310	1
	Zn	67	51.594	ug/L	0.832	1	117	17334	0
	Zn	68	50.168	ug/L	0.209	0	4744	76584	0
	As-1	75	49.274	ug/L	0.579	1	309	93428	0
	As	75	49.515	ug/L	0.522	1	7188	100877	0
	Se	82	49.529	ug/L	0.747	1	-2	8449	0
	Se	78	50.652	ug/L	0.677	1	7264	29358	0
	Mo	98	49.001	ug/L	0.542	1	35	312609	0
	Y	89		ug/L			258568	253417	0
	Kr	83		ug/L			164	187	1
>	In	115		ug/L			342647	355749	0
	Ag	107	51.190	ug/L	0.419	0	102	599532	0
	Cd	111	50.167	ug/L	0.300	0	148	142271	0
	Cd	114	50.168	ug/L	0.453	0	23	335896	0
	Sb	121	51.000	ug/L	0.476	0	158	538771	0
	Sb	123	50.732	ug/L	0.607	1	125	406476	1
	Ba	135	50.190	ug/L	0.323	0	23	113562	0
	Ba	137	50.322	ug/L	0.490	0	28	191992	0
>	Tb	159		ug/L			358639	355894	0
	Tl	205	50.371	ug/L	0.659	1	146	1231369	1
	Pb	208	51.360	ug/L	0.309	0	641	1663553	0
	Bi	209		ug/L			288543	281295	0
	Th	232	49.282	ug/L	0.456	0	343	1825556	1
	U	238	49.133	ug/L	0.822	1	65	1911712	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB4
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, March 29, 2010 17:12:10
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			346137	302206	0
[	Be	9	0.008	ug/L	0.002	25	7	9	7
	C	13		mg/L			5980	5471	1
	Cl	37		mg/L			3044792	3469903	0
[>	Sc	45		ug/L			227993	231903	0
[	V-1	51	-0.014	ug/L	0.010	70	1256	1131	9
[	V	51	0.979	ug/L	0.026	2	3318	13830	1
[	Cr	52	0.023	ug/L	0.004	18	4241	4528	0
[	Cr	53	3.067	ug/L	0.069	2	1138	4572	1
[	Mn	55	0.005	ug/L	0.002	42	336	412	6
[	Co	59	0.002	ug/L	0.000	21	35	55	7
[>	Ge	72		ug/L			322645	336757	0
[	Ni	60	-0.003	ug/L	0.006	203	77	73	22
[	Ni	62	1.946	ug/L	0.108	5	47	825	4
[	Cu	63	0.095	ug/L	0.003	3	215	803	1
[	Cu	65	0.008	ug/L	0.002	18	103	132	3
[	Zn	66	0.005	ug/L	0.003	66	184	201	3
[	Zn	67	0.578	ug/L	0.058	10	117	317	5
[	Zn	68	0.326	ug/L	0.049	14	4744	5423	1
[	As-1	75	0.022	ug/L	0.013	60	309	365	7
[	As	75	0.130	ug/L	0.041	31	7188	7749	0
[	Se	82	-0.005	ug/L	0.034	685	-2	-3	177
[	Se	78	0.559	ug/L	0.174	31	7264	7826	0
[	Mo	98	0.004	ug/L	0.001	34	35	61	13
	Y	89		ug/L			258568	255554	0
	Kr	83		ug/L			164	188	3
[>	In	115		ug/L			342647	364584	0
[	Ag	107	-0.001	ug/L	0.001	101	102	101	7
[	Cd	111	0.012	ug/L	0.007	59	148	194	11
[	Cd	114	0.002	ug/L	0.000	5	23	37	2
[	Sb	121	0.012	ug/L	0.004	33	158	294	13
[	Sb	123	0.011	ug/L	0.008	68	125	227	27
[	Ba	135	0.001	ug/L	0.000	37	23	27	4
[	Ba	137	0.002	ug/L	0.001	88	28	36	15
[>	Tb	159		ug/L			358639	355350	1
[	Tl	205	0.009	ug/L	0.002	25	146	353	15
[	Pb	208	0.012	ug/L	0.005	43	641	1026	16
[	Bi	209		ug/L			288543	287766	0
[	Th	232	0.003	ug/L	0.002	64	343	466	17
[	U	238	0.002	ug/L	0.000	21	65	131	10

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ39 MB1 REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, March 29, 2010 17:31:02
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass		Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6			ug/L			346137	332179	0
[	Be	9		-0.000	ug/L	0.008	2239	7	6	47
	C	13			mg/L			5980	8982	3
	Cl	37			mg/L			3044792	3493883	0
[>	Sc	45			ug/L			227993	247935	1
[	V-1	51		0.021	ug/L	0.013	59	1256	1604	9
[	V	51		0.772	ug/L	0.028	3	3318	12421	1
[	Cr	52	U	0.087	ug/L	0.005	5	4241	5482	1
[	Cr	53		2.387	ug/L	0.094	3	1138	4078	1
[	Mn	55		0.113	ug/L	0.008	6	336	2205	4
[	Co	59		0.002	ug/L	0.001	26	35	65	12
[>	Ge	72			ug/L			322645	360135	0
[	Ni	60	U	0.018	ug/L	0.005	26	77	137	10
[	Ni	62		0.755	ug/L	0.039	5	47	374	4
[	Cu	63	U	0.085	ug/L	0.005	5	215	797	3
[	Cu	65		0.048	ug/L	0.004	8	103	266	5
[	Zn	66		0.938	ug/L	0.008	0	184	2235	0
[	Zn	67		1.367	ug/L	0.064	4	117	624	3
[	Zn	68		0.857	ug/L	0.033	3	4744	6618	0
[	As-1	75	U	-0.002	ug/L	0.009	572	309	342	5
[	As	75		-0.102	ug/L	0.025	24	7188	7816	1
[	Se	82		-0.038	ug/L	0.058	151	-2	-9	110
[	Se	78		-0.494	ug/L	0.074	14	7264	7878	0
[	Mo	98		0.000	ug/L	0.001	140	35	42	9
	Y	89			ug/L			258568	273013	0
	Kr	83			ug/L			164	179	2
[>	In	115			ug/L			342647	380979	0
[	Ag	107	U	0.005	ug/L	0.001	17	102	172	5
[	Cd	111	U	0.007	ug/L	0.003	37	148	186	4
[	Cd	114		0.001	ug/L	0.000	21	23	36	5
[	Sb	121		-0.005	ug/L	0.001	20	158	121	9
[	Sb	123		-0.006	ug/L	0.000	8	125	90	4
[	Ba	135		0.033	ug/L	0.003	10	23	105	7
[	Ba	137		0.033	ug/L	0.004	12	28	167	10
[>	Tb	159			ug/L			358639	372415	0
[	Tl	205	U	0.001	ug/L	0.000	33	146	176	4
[	Pb	208	U	0.020	ug/L	0.001	4	641	1344	1
[	Bi	209			ug/L			288543	302888	0
[	Th	232		-0.002	ug/L	0.001	38	343	284	10
[	U	238		0.001	ug/L	0.000	10	65	117	4

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QM99 MB REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, March 29, 2010 17:37:51
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			346137	328049	1
[	Be	9	0.004	ug/L	0.010	238	7	8	45
	C	13		mg/L			5980	6777	0
	Cl	37		mg/L			3044792	3453015	0
[>	Sc	45		ug/L			227993	242837	0
[	V-1	51	0.013	ug/L	0.024	177	1256	1485	17
[	V	51	0.730	ug/L	0.024	3	3318	11706	1
[	Cr	52	0.096	ug/L	0.009	8	4241	5458	1
[	Cr	53	2.292	ug/L	0.036	1	1138	3885	0
[	Mn	55	0.044	ug/L	0.003	5	336	1066	4
[	Co	59	0.003	ug/L	0.001	26	35	70	12
[>	Ge	72		ug/L			322645	343991	1
[	Ni	60	-0.003	ug/L	0.002	64	77	76	4
[	Ni	62	0.684	ug/L	0.040	5	47	328	4
[	Cu	63	U 0.159	ug/L	0.010	6	215	1221	4
[	Cu	65	0.128	ug/L	0.006	4	103	497	4
[	Zn	66	U 0.682	ug/L	0.005	0	184	1606	1
[	Zn	67	1.064	ug/L	0.075	7	117	491	4
[	Zn	68	0.815	ug/L	0.038	4	4744	6260	1
[	As-1	75	0.009	ug/L	0.011	124	309	347	5
[	As	75	0.030	ug/L	0.050	167	7188	7721	0
[	Se	82	0.003	ug/L	0.043	1288	-2	-1	381
[	Se	78	0.125	ug/L	0.203	162	7264	7800	0
[	Mo	98	0.002	ug/L	0.002	110	35	48	22
	Y	89		ug/L			258568	265290	0
	Kr	83		ug/L			164	180	2
[>	In	115		ug/L			342647	369300	0
[	Ag	107	-0.005	ug/L	0.000	2	102	44	3
[	Cd	111	0.007	ug/L	0.004	54	148	181	5
[	Cd	114	0.002	ug/L	0.000	22	23	39	8
[	Sb	121	-0.009	ug/L	0.000	3	158	68	4
[	Sb	123	-0.009	ug/L	0.001	10	125	58	13
[	Ba	135	0.028	ug/L	0.007	26	23	90	19
[	Ba	137	0.026	ug/L	0.005	20	28	135	15
[>	Tb	159		ug/L			358639	364924	0
[	Tl	205	0.001	ug/L	0.001	120	146	167	13
[	Pb	208	U 0.019	ug/L	0.002	11	641	1299	6
[	Bi	209		ug/L			288543	292391	0
[	Th	232	-0.005	ug/L	0.000	4	343	167	4
[	U	238	0.000	ug/L	0.000	31	65	75	3

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QM99 MBSPK REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, March 29, 2010 17:44:41
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			346137	336742	1
[	Be	9	25.510	ug/L	0.465	1	7	10647	0
	C	13		mg/L			5980	7175	0
	Cl	37		mg/L			3044792	3437895	0
[>	Sc	45		ug/L			227993	244020	0
[	V-1	51	25.066	ug/L	0.391	1	1256	278084	1
[	V	51	25.763	ug/L	0.431	1	3318	293177	1
[	Cr	52	25.291	ug/L	0.549	2	4241	252380	1
[	Cr	53	27.417	ug/L	0.321	1	1138	33345	0
[	Mn	55	25.809	ug/L	0.352	1	336	415343	0
[	Co	59	25.617	ug/L	0.247	0	35	325625	0
[>	Ge	72		ug/L			322645	341158	0
[	Ni	60	26.021	ug/L	0.278	1	77	69567	1
[	Ni	62	26.231	ug/L	0.452	1	47	10653	0
[	Cu	63	27.231	ug/L	0.115	0	215	168981	1
[	Cu	65	27.102	ug/L	0.515	1	103	81455	2
[	Zn	66	86.301	ug/L	1.032	1	184	177130	0
[	Zn	67	80.293	ug/L	0.920	1	117	27556	0
[	Zn	68	84.202	ug/L	0.215	0	4744	128225	0
[	As-1	75	25.030	ug/L	0.232	0	309	48762	0
[	As	75	25.108	ug/L	0.156	0	7188	56133	1
[	Se	82	78.914	ug/L	0.940	1	-2	13788	0
[	Se	78	79.464	ug/L	0.197	0	7264	42797	0
[	Mo	98	0.005	ug/L	0.001	11	35	72	4
	Y	89		ug/L			258568	266152	0
	Kr	83		ug/L			164	170	4
[>	In	115		ug/L			342647	367770	0
[	Ag	107	25.090	ug/L	0.223	0	102	303837	0
[	Cd	111	25.601	ug/L	0.254	0	148	75138	1
[	Cd	114	25.094	ug/L	0.053	0	23	173707	0
[	Sb	121	-0.005	ug/L	0.000	2	158	112	1
[	Sb	123	-0.005	ug/L	0.001	26	125	92	12
[	Ba	135	25.610	ug/L	0.215	0	23	59919	1
[	Ba	137	25.439	ug/L	0.099	0	28	100352	0
[>	Tb	159		ug/L			358639	363270	0
[	Tl	205	26.088	ug/L	0.353	1	146	651017	1
[	Pb	208	26.995	ug/L	0.116	0	641	892811	0
[	Bi	209		ug/L			288543	295672	0
[	Th	232	25.669	ug/L	0.393	1	343	970638	1
[	U	238	25.804	ug/L	0.247	0	65	1024884	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ39 MB1SPK REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, March 29, 2010 17:51:31
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
⌈>	Li	6		ug/L			346137	341686	0
⌊	Be	9	26.153	ug/L	0.177	0	7	11077	0
	C	13		mg/L			5980	9127	2
	Cl	37		mg/L			3044792	3435922	0
⌈>	Sc	45		ug/L			227993	240381	0
⌈	V-1	51	25.925	ug/L	0.705	2	1256	283252	2
⌊	V	51	26.620	ug/L	0.585	2	3318	298277	1
⌈	Cr	52	26.477	ug/L	0.458	1	4241	260045	0
⌊	Cr	53	28.580	ug/L	0.302	1	1138	34190	0
⌈	Mn	55	26.709	ug/L	0.427	1	336	423376	0
⌊	Co	59	26.298	ug/L	0.079	0	35	329291	0
⌈>	Ge	72		ug/L			322645	339347	1
⌈	Ni	60	26.638	ug/L	0.226	0	77	70834	0
⌊	Ni	62	27.038	ug/L	0.407	1	47	10920	0
⌈	Cu	63	27.757	ug/L	0.288	1	215	171308	0
⌊	Cu	65	27.450	ug/L	0.238	0	103	82056	1
⌈	Zn	66	82.446	ug/L	0.730	0	184	168356	2
⌊	Zn	67	76.060	ug/L	1.067	1	117	25970	0
⌈	Zn	68	80.813	ug/L	0.796	0	4744	122601	0
⌈	As-1	75	25.427	ug/L	0.347	1	309	49265	1
⌊	As	75	25.503	ug/L	0.434	1	7188	56589	1
⌈	Se	82	80.575	ug/L	1.236	1	-2	14003	1
⌊	Se	78	81.164	ug/L	1.641	2	7264	43312	1
⌊	Mo	98	0.006	ug/L	0.001	12	35	75	4
	Y	89		ug/L			258568	265583	1
	Kr	83		ug/L			164	177	0
⌈>	In	115		ug/L			342647	361863	1
⌈	Ag	107	26.039	ug/L	0.624	2	102	310194	1
⌈	Cd	111	26.061	ug/L	0.416	1	148	75244	0
⌊	Cd	114	26.052	ug/L	0.322	1	23	177418	0
⌈	Sb	121	-0.004	ug/L	0.001	35	158	125	11
⌊	Sb	123	-0.003	ug/L	0.001	40	125	107	9
⌈	Ba	135	26.776	ug/L	0.308	1	23	61631	0
⌊	Ba	137	26.725	ug/L	0.518	1	28	103715	0
⌈>	Tb	159		ug/L			358639	362747	1
⌈	Tl	205	26.794	ug/L	0.382	1	146	667564	1
⌈	Pb	208	27.826	ug/L	0.415	1	641	918801	0
⌈	Bi	209		ug/L			288543	293598	0
⌈	Th	232	26.691	ug/L	0.422	1	343	1007687	0
⌊	U	238	26.761	ug/L	0.764	2	65	1061017	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ39 B-L REN
Sample Dil Factor: 10
Comments:
Sample Date/Time: Monday, March 29, 2010 17:59:21
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

rerun
CC

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			346137	340209	0
[	Be	9	0.006	ug/L	0.003	53	7	9	15
	C	13		mg/L			5980	7821	2
	Cl	37		mg/L			3044792	3292734	0
[>	Sc	45		ug/L			227993	239446	0
	V-1	51	2.530	ug/L	0.008	0	1256	28731	0
	V	51	3.135	ug/L	0.017	0	3318	38069	0
	Cr	52	0.707	ug/L	0.008	1	4241	11248	0
	Cr	53	2.663	ug/L	0.045	1	1138	4257	0
	Mn	55	100.867	ug/L	0.666	0	336	1591839	0
[	Co	59	0.182	ug/L	0.004	1	35	2301	2
[>	Ge	72		ug/L			322645	313154	0
	Ni	60	U 0.276	ug/L	0.016	5	77	751	4
	Ni	62	0.684	ug/L	0.019	2	47	299	2
	Cu	63	0.305	ug/L	0.000	0	215	1942	0
	Cu	65	U 0.153	ug/L	0.006	4	103	522	2
	Zn	66	0.877	ug/L	0.026	3	184	1829	3
	Zn	67	1.486	ug/L	0.047	3	117	580	2
	Zn	68	1.254	ug/L	0.068	5	4744	6289	2
	As-1	75	0.406	ug/L	0.011	2	309	1022	1
	As	75	0.621	ug/L	0.024	3	7188	8078	0
	Se	82	0.068	ug/L	0.053	77	-2	8	98
	Se	78	1.030	ug/L	0.099	9	7264	7468	0
[	Mo	98	0.431	ug/L	0.015	3	35	2618	2
	Y	89		ug/L			258568	256704	0
	Kr	83		ug/L			164	164	4
[>	In	115		ug/L			342647	340703	1
	Ag	107	U 0.004	ug/L	0.001	14	102	146	5
	Cd	111	U 0.009	ug/L	0.003	33	148	172	5
	Cd	114	0.003	ug/L	0.001	30	23	45	15
	Sb	121	-0.003	ug/L	0.003	96	158	127	24
	Sb	123	-0.003	ug/L	0.001	26	125	103	5
	Ba	135	2.858	ug/L	0.053	1	23	6213	1
[	Ba	137	2.924	ug/L	0.032	1	28	10710	0
[>	Tb	159		ug/L			358639	350006	0
	Tl	205	U 0.009	ug/L	0.001	13	146	358	8
	Pb	208	U 0.029	ug/L	0.002	8	641	1561	5
	Bi	209		ug/L			288543	279962	0
	Th	232	0.013	ug/L	0.001	5	343	800	3
[	U	238	0.007	ug/L	0.000	1	65	314	2

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ39 B REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, March 29, 2010 18:07:12
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

rerun cr

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			346137	346103	1
[	Be	9	0.063	ug/L	0.022	34	7	34	27
	C	13		mg/L			5980	10123	2
	Cl	37		mg/L			3044792	3217822	1
[>	Sc	45		ug/L			227993	279357	1
[	V-1	51	10.544	ug/L	0.244	2	1256	134783	0
[	V	51	10.982	ug/L	0.227	2	3318	145380	0
[	Cr	52	2.809	ug/L	0.056	2	4241	36704	1
[	Cr	53	4.578	ug/L	0.063	1	1138	7536	1
[	Mn	55	422.159	ug/L	6.100	1	336	7770387	0
[	Co	59	0.764	ug/L	0.011	1	35	11157	0
[>	Ge	72		ug/L			322645	310927	0
[	Ni	60	1.310	ug/L	0.056	4	77	3262	3
[	Ni	62	2.612	ug/L	0.446	17	47	1006	15
[	Cu	63	1.293	ug/L	0.028	2	215	7509	1
[	Cu	65	0.634	ug/L	0.003	0	103	1833	1
[	Zn	66	3.369	ug/L	0.029	0	184	6473	1
[	Zn	67	4.570	ug/L	0.065	1	117	1536	2
[	Zn	68	4.019	ug/L	0.056	1	4744	9931	0
[	As-1	75	1.899	ug/L	0.014	0	309	3646	0
[	As	75	2.114	ug/L	0.050	2	7188	10651	0
[	Se	82	0.321	ug/L	0.091	28	-2	48	29
[	Se	78	1.399	ug/L	0.130	9	7264	7564	0
[	Mo	98	2.115	ug/L	0.017	0	35	12628	0
	Y	89		ug/L			258568	293426	1
	Kr	83		ug/L			164	181	9
[>	In	115		ug/L			342647	333352	0
[	Ag	107	0.014	ug/L	0.003	20	102	257	12
[	Cd	111	-0.029	ug/L	0.010	34	148	68	39
[	Cd	114	0.010	ug/L	0.002	20	23	83	15
[	Sb	121	0.031	ug/L	0.001	4	158	463	2
[	Sb	123	0.032	ug/L	0.003	8	125	362	5
[	Ba	135	14.191	ug/L	0.168	1	23	30103	1
[	Ba	137	14.176	ug/L	0.145	1	28	50701	0
[>	Tb	159		ug/L			358639	352526	0
[	Tl	205	0.010	ug/L	0.002	20	146	378	11
[	Pb	208	0.112	ug/L	0.003	2	641	4216	2
[	Bi	209		ug/L			288543	269610	0
[	Th	232	0.061	ug/L	0.001	0	343	2569	1
[	U	238	0.026	ug/L	0.001	3	65	1073	3

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ39 BDUP REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, March 29, 2010 18:14:04
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

rerun Cr

	Analyte	Mass	Conc. Mean		Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6			ug/L			346137	355884	1
[	Be	9	0.044		ug/L	0.005	11	7	26	9
	C	13			mg/L			5980	10771	0
	Cl	37			mg/L			3044792	3130512	0
[>	Sc	45			ug/L			227993	279148	0
[	V-1	51	11.125		ug/L	0.124	1	1256	142044	0
[	V	51	11.456		ug/L	0.127	1	3318	151388	0
[	Cr	52	2.926		ug/L	0.031	1	4241	37995	0
[	Cr	53	4.392		ug/L	0.046	1	1138	7281	0
[	Mn	55	440.120		ug/L	2.269	0	336	8096140	0
[	Co	59	0.798		ug/L	0.010	1	35	11644	0
[>	Ge	72			ug/L			322645	317296	0
[	Ni	60	1.311		ug/L	0.002	0	77	3332	1
[	Ni	62	5.475		ug/L	0.837	15	47	2105	15
[	Cu	63	1.481		ug/L	0.067	4	215	8749	4
[	Cu	65	0.636		ug/L	0.007	1	103	1878	0
[	Zn	66	3.100		ug/L	0.067	2	184	6091	1
[	Zn	67	4.399		ug/L	0.115	2	117	1513	1
[	Zn	68	3.681		ug/L	0.138	3	4744	9673	0
[	As-1	75	1.945		ug/L	0.030	1	309	3804	1
[	As	75	2.078		ug/L	0.059	2	7188	10803	0
[	Se	82	0.283		ug/L	0.081	28	-2	43	30
[	Se	78	1.025		ug/L	0.155	15	7264	7565	0
[	Mo	98	2.188		ug/L	0.023	1	35	13330	1
	Y	89			ug/L			258568	296447	1
	Kr	83			ug/L			164	189	3
[>	In	115			ug/L			342647	337627	0
[	Ag	107	U	0.011	ug/L	0.001	6	102	220	3
[	Cd	111	U	-0.032	ug/L	0.033	105	148	62	144
[	Cd	114		0.008	ug/L	0.001	10	23	71	7
[	Sb	121		0.032	ug/L	0.002	6	158	478	5
[	Sb	123		0.030	ug/L	0.003	9	125	348	5
[	Ba	135	14.678		ug/L	0.196	1	23	31535	0
[	Ba	137	14.742		ug/L	0.070	0	28	53401	0
[>	Tb	159			ug/L			358639	351091	0
[	Tl	205	U	0.009	ug/L	0.001	15	146	370	9
[	Pb	208	U	0.103	ug/L	0.003	2	641	3904	2
[	Bi	209			ug/L			288543	268729	1
[	Th	232		0.062	ug/L	0.002	3	343	2608	2
[	U	238		0.028	ug/L	0.000	0	65	1144	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ39 BSPK REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, March 29, 2010 18:20:56
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

ren Cr

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			346137	350575	0
[	Be	9	27.127	ug/L	0.177	0	7	11789	0
	C	13		mg/L			5980	10302	2
	Cl	37		mg/L			3044792	3115218	0
[>	Sc	45		ug/L			227993	274927	0
[	V-1	51	33.034	ug/L	0.549	1	1256	412411	1
[	V	51	33.384	ug/L	0.430	1	3318	426836	1
[	Cr	52	24.449	ug/L	0.362	1	4241	275046	1
[	Cr	53	25.996	ug/L	0.198	0	1138	35693	0
[	Mn	55	472.127	ug/L	4.320	0	336	8553252	0
[	Co	59	22.404	ug/L	0.293	1	35	320835	0
[>	Ge	72		ug/L			322645	306250	1
[	Ni	60	28.081	ug/L	0.364	1	77	67384	0
[	Ni	62	36.308	ug/L	0.919	2	47	13222	3
[	Cu	63	29.161	ug/L	0.302	1	215	162414	0
[	Cu	65	27.788	ug/L	0.258	0	103	74964	1
[	Zn	66	91.789	ug/L	1.119	1	184	169105	0
[	Zn	67	85.387	ug/L	1.391	1	117	26301	1
[	Zn	68	89.289	ug/L	0.741	0	4744	121781	0
[	As-1	75	29.372	ug/L	0.151	0	309	51315	0
[	As	75	29.349	ug/L	0.342	1	7188	57743	0
[	Se	82	84.381	ug/L	1.017	1	-2	13234	0
[	Se	78	84.648	ug/L	1.765	2	7264	40470	0
[	Mo	98	2.268	ug/L	0.055	2	35	13332	1
	Y	89		ug/L			258568	290291	0
	Kr	83		ug/L			164	178	3
[>	In	115		ug/L			342647	327160	0
[	Ag	107	19.005	ug/L	0.303	1	102	204740	0
[	Cd	111	26.797	ug/L	0.292	1	148	69953	1
[	Cd	114	26.861	ug/L	0.201	0	23	165403	0
[	Sb	121	0.044	ug/L	0.002	3	158	578	3
[	Sb	123	0.040	ug/L	0.005	13	125	415	9
[	Ba	135	43.251	ug/L	0.172	0	23	90000	0
[	Ba	137	44.012	ug/L	0.522	1	28	154429	1
[>	Tb	159		ug/L			358639	341931	1
[	Tl	205	26.574	ug/L	0.258	0	146	624106	0
[	Pb	208	27.765	ug/L	0.285	1	641	864235	0
[	Bi	209		ug/L			288543	262591	0
[	Th	232	28.010	ug/L	0.394	1	343	996827	0
[	U	238	28.310	ug/L	0.798	2	65	1058060	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ39 BPOST REN zzzzz
Sample Dil Factor: 2 BW 3.29
Comments:
Sample Date/Time: Monday, March 29, 2010 18:27:45
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			346137	350418	0
[	Be	9	25.647	ug/L	0.299	1	7	11140	0
	C	13		mg/L			5980	10152	1
	Cl	37		mg/L			3044792	3048605	0
[>	Sc	45		ug/L			227993	265633	2
[	V-1	51	31.799	ug/L	0.539	1	1256	383539	0
[	V	51	32.154	ug/L	0.636	1	3318	397239	0
[	Cr	52	23.898	ug/L	0.266	1	4241	259837	1
[	Cr	53	25.421	ug/L	0.563	2	1138	33742	0
[	Mn	55	454.617	ug/L	8.125	1	336	7955744	1
[	Co	59	21.582	ug/L	0.233	1	35	298599	1
[>	Ge	72		ug/L			322645	305906	0
[	Ni	60	26.473	ug/L	0.357	1	77	63465	1
[	Ni	62	36.857	ug/L	1.272	3	47	13404	3
[	Cu	63	27.664	ug/L	0.298	1	215	153926	0
[	Cu	65	26.767	ug/L	0.292	1	103	72136	0
[	Zn	66	80.988	ug/L	0.535	0	184	149073	0
[	Zn	67	75.909	ug/L	1.121	1	117	23368	1
[	Zn	68	80.125	ug/L	0.847	1	4744	109628	1
[	As-1	75	27.574	ug/L	0.160	0	309	48140	0
[	As	75	27.737	ug/L	0.225	0	7188	54888	0
[	Se	82	78.730	ug/L	0.694	0	-2	12335	0
[	Se	78	79.811	ug/L	0.422	0	7264	38512	0
[	Mo	98	2.108	ug/L	0.009	0	35	12378	0
	Y	89		ug/L			258568	287450	0
	Kr	83		ug/L			164	181	3
[>	In	115		ug/L			342647	327622	0
[	Ag	107	24.534	ug/L	0.087	0	102	264675	0
[	Cd	111	25.550	ug/L	0.200	0	148	66800	0
[	Cd	114	25.367	ug/L	0.366	1	23	156415	0
[	Sb	121	0.032	ug/L	0.003	8	158	458	6
[	Sb	123	0.032	ug/L	0.002	7	125	358	4
[	Ba	135	40.419	ug/L	0.286	0	23	84228	0
[	Ba	137	40.951	ug/L	0.731	1	28	143879	0
[>	Tb	159		ug/L			358639	343594	1
[	Tl	205	25.015	ug/L	0.300	1	146	590367	0
[	Pb	208	26.172	ug/L	0.144	0	641	818709	0
[	Bi	209		ug/L			288543	261733	1
[	Th	232	26.535	ug/L	0.424	1	343	948955	0
[	U	238	26.596	ug/L	0.619	2	65	998986	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ39 C REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, March 29, 2010 18:34:30
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			346137	361551	0
[	Be	9	0.042	ug/L	0.020	46	7	26	32
	C	13		mg/L			5980	9509	2
	Cl	37		mg/L			3044792	3071971	0
[>	Sc	45		ug/L			227993	261282 ✓	0
[	V-1	51	6.499	ug/L	0.065	0	1256	78271	0
[	V	51	6.895	ug/L	0.064	0	3318	86801	0
[	Cr	52	1.608	ug/L	0.021	1	4241	21736	1
[	Cr	53	3.092	ug/L	0.054	1	1138	5184	1
[	Mn	55	362.043	ug/L	1.930	0	336	6233687	0
[	Co	59	0.294	ug/L	0.007	2	35	4035	1
[>	Ge	72		ug/L			322645	310713	0
[	Ni	60	2.080	ug/L	0.026	1	77	5134	1
[	Ni	62	11.299	ug/L	0.380	3	47	4205	3
[	Cu	63	1.174	ug/L	0.003	0	215	6831	0
[	Cu	65	U 0.317	ug/L	0.005	1	103	966	2
[	Zn	66	8.278	ug/L	0.152	1	184	15634	1
[	Zn	67	8.205	ug/L	0.148	1	117	2666	1
[	Zn	68	8.625	ug/L	0.122	1	4744	16062	1
[	As-1	75	0.835	ug/L	0.038	4	309	1770	3
[	As	75	0.981	ug/L	0.081	8	7188	8648	0
[	Se	82	0.173	ug/L	0.134	77	-2	25	83
[	Se	78	0.933	ug/L	0.313	33	7264	7371	0
[	Mo	98	2.850	ug/L	0.047	1	35	16988	1
	Y	89		ug/L			258568	276952	0
	Kr	83		ug/L			164	178	9
[>	In	115		ug/L			342647	329826	0
[	Ag	107	U 0.016	ug/L	0.002	12	102	273	6
[	Cd	111	-0.053	ug/L	0.010	18	148	5	467
[	Cd	114	U 0.010	ug/L	0.002	21	23	86	16
[	Sb	121	0.028	ug/L	0.001	3	158	424	1
[	Sb	123	0.026	ug/L	0.003	11	125	316	7
[	Ba	135	12.468	ug/L	0.192	1	23	26169	1
[	Ba	137	12.580	ug/L	0.214	1	28	44516	0
[>	Tb	159		ug/L			358639	344273	0
[	Tl	205	U 0.013	ug/L	0.001	5	146	457	3
[	Pb	208	0.044	ug/L	0.000	1	641	2009	1
[	Bi	209	U	ug/L			288543	268047	1
[	Th	232	0.040	ug/L	0.000	0	343	1759	1
[	U	238	0.013	ug/L	0.001	4	65	549	3

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV5
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, March 29, 2010 18:41:17
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
>	Li	6		ug/L			346137	362037	0
	Be	9	49.498	ug/L	0.418	0	7	22207	0
	C	13		mg/L			5980	4769	0
	Cl	37		mg/L			3044792	2966195	1
>	Sc	45		ug/L			227993	217811	0
	V-1	51	49.325	ug/L	0.778	1	1256	487268	1
	V	51	49.679	ug/L	0.705	1	3318	501659	0
	Cr	52	49.546	ug/L	0.338	0	4241	437437	0
	Cr	53	50.619	ug/L	0.194	0	1138	54032	0
	Mn	55	49.484	ug/L	0.057	0	336	710545	1
	Co	59	48.883	ug/L	0.215	0	35	554602	0
>	Ge	72		ug/L			322645	307003	1
	Ni	60	49.971	ug/L	0.856	1	77	120141	0
	Ni	62	56.157	ug/L	0.932	1	47	20472	0
	Cu	63	50.726	ug/L	0.470	0	215	283083	1
	Cu	65	50.085	ug/L	0.306	0	103	135382	1
	Zn	66	49.969	ug/L	0.511	1	184	92365	0
	Zn	67	49.102	ug/L	0.833	1	117	15207	1
	Zn	68	49.425	ug/L	0.408	0	4744	69591	0
	As-1	75	49.937	ug/L	0.442	0	309	87249	0
	As	75	50.062	ug/L	0.510	1	7188	93909	0
	Se	82	51.152	ug/L	0.600	1	-2	8041	0
	Se	78	51.825	ug/L	0.976	1	7264	27518	0
	Mo	98	50.100	ug/L	0.351	0	35	294570	1
	Y	89		ug/L			258568	246333	2
	Kr	83		ug/L			164	180	3
>	In	115		ug/L			342647	330761	0
	Ag	107	50.993	ug/L	0.465	0	102	555301	1
	Cd	111	50.720	ug/L	0.124	0	148	133736	0
	Cd	114	50.816	ug/L	0.957	1	23	316317	1
	Sb	121	50.674	ug/L	0.358	0	158	497722	0
	Sb	123	50.049	ug/L	0.243	0	125	372840	0
	Ba	135	49.915	ug/L	0.418	0	23	105013	1
	Ba	137	50.167	ug/L	0.843	1	28	177960	1
>	Tb	159		ug/L			358639	342230	1
	Tl	205	50.357	ug/L	0.236	0	146	1183710	1
	Pb	208	51.632	ug/L	0.585	1	641	1608094	1
	Bi	209		ug/L			288543	274719	0
	Th	232	50.816	ug/L	0.819	1	343	1809840	0
	U	238	50.802	ug/L	1.477	2	65	1900461	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB5
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, March 29, 2010 18:48:45
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			346137	375350	0
[	Be	9	-0.000	ug/L	0.005	1250	7	7	28
	C	13		mg/L			5980	5593	0
	Cl	37		mg/L			3044792	3006008	0
[>	Sc	45		ug/L			227993	225243	0
[	V-1	51	0.003	ug/L	0.009	335	1256	1269	7
[	V	51	0.354	ug/L	0.026	7	3318	6953	3
[	Cr	52	0.003	ug/L	0.010	325	4241	4218	2
[	Cr	53	1.081	ug/L	0.053	4	1138	2294	2
[	Mn	55	0.050	ug/L	0.002	3	336	1075	2
[	Co	59	0.002	ug/L	0.001	41	35	57	16
[>	Ge	72		ug/L			322645	315971	0
[	Ni	60	-0.000	ug/L	0.001	184	77	75	1
[	Ni	62	4.716	ug/L	0.081	1	47	1812	1
[	Cu	63	0.150	ug/L	0.008	5	215	1072	3
[	Cu	65	0.015	ug/L	0.004	24	103	142	7
[	Zn	66	0.016	ug/L	0.005	30	184	211	4
[	Zn	67	0.246	ug/L	0.037	14	117	192	5
[	Zn	68	0.111	ug/L	0.070	62	4744	4796	2
[	As-1	75	0.011	ug/L	0.008	75	309	322	4
[	As	75	0.113	ug/L	0.014	12	7188	7241	0
[	Se	82	-0.044	ug/L	0.104	234	-2	-9	177
[	Se	78	0.455	ug/L	0.025	5	7264	7300	0
[	Mo	98	0.007	ug/L	0.002	33	35	74	18
	Y	89		ug/L			258568	252111	0
	Kr	83		ug/L			164	169	5
[>	In	115		ug/L			342647	340376	0
[	Ag	107	0.002	ug/L	0.000	11	102	120	2
[	Cd	111	0.001	ug/L	0.006	951	148	149	9
[	Cd	114	0.004	ug/L	0.001	13	23	49	6
[	Sb	121	0.010	ug/L	0.001	10	158	253	4
[	Sb	123	0.012	ug/L	0.003	28	125	213	12
[	Ba	135	0.009	ug/L	0.007	78	23	43	37
[	Ba	137	0.013	ug/L	0.003	19	28	77	13
[>	Tb	159		ug/L			358639	349274	0
[	Tl	205	0.007	ug/L	0.001	14	146	305	6
[	Pb	208	0.030	ug/L	0.001	4	641	1584	1
[	Bi	209		ug/L			288543	285320	0
[	Th	232	0.004	ug/L	0.001	36	343	472	11
[	U	238	0.002	ug/L	0.001	29	65	145	17

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ39 D REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, March 29, 2010 18:56:11
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

REN
CT

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			346137	351691	1
[	Be	9	0.201	ug/L	0.028	13	7	95	14
	C	13		mg/L			5980	15355	2
	Cl	37		mg/L			3044792	4296920	0
[>	Sc	45		ug/L			227993	287388	1
[	V-1	51	88.996	ug/L	0.616	0	1256	1158783	1
[	V	51	88.298	ug/L	0.614	0	3318	1173271	1
[	Cr	52	18.782	ug/L	0.314	1	4241	222082	0
[	Cr	53	20.503	ug/L	0.238	1	1138	29728	1
[	Mn	55	279.655	ug/L	5.734	2	336	5295556	1
[	Co	59	0.721	ug/L	0.016	2	35	10842	2
[>	Ge	72		ug/L			322645	309005	0
[	Ni	60	1.782	ug/L	0.091	5	77	4385	4
[	Ni	62	68.957	ug/L	8.543	12	47	25306	12
[	Cu	63	8.907	ug/L	0.628	7	215	50211	7
[	Cu	65	1.097	ug/L	0.018	1	103	3082	1
[	Zn	66	9.106	ug/L	0.131	1	184	17087	1
[	Zn	67	16.078	ug/L	0.277	1	117	5088	1
[	Zn	68	9.567	ug/L	0.182	1	4744	17223	1
[	As-1	75	7.870	ug/L	0.013	0	309	14090	0
[	As	75	7.964	ug/L	0.103	1	7188	20828	1
[	Se	82	1.447	ug/L	0.105	7	-2	226	7
[	Se	78	2.263	ug/L	0.475	20	7264	7863	2
[	Mo	98	1.445	ug/L	0.020	1	35	8583	1
	Y	89		ug/L			258568	455674	0
	Kr	83		ug/L			164	226	1
[>	In	115		ug/L			342647	324060	0
[	Ag	107	V 0.058	ug/L	0.003	4	102	719	3
[	Cd	111	-0.218	ug/L	0.175	80	148	-420	107
[	Cd	114	V 0.005	ug/L	0.000	10	23	50	5
[	Sb	121	0.087	ug/L	0.003	3	158	986	2
[	Sb	123	0.093	ug/L	0.003	3	125	798	3
[	Ba	135	14.629	ug/L	0.130	0	23	30167	1
[	Ba	137	14.581	ug/L	0.107	0	28	50694	0
[>	Tb	159		ug/L			358639	352376	0
[	Tl	205	V 0.004	ug/L	0.001	22	146	237	8
[	Pb	208	V 0.148	ug/L	0.004	2	641	5367	2
[	Bi	209		ug/L			288543	258215	0
[	Th	232	0.199	ug/L	0.003	1	343	7619	1
[	U	238	0.042	ug/L	0.001	3	65	1697	2

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ39 E REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, March 29, 2010 19:02:57
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

ren
Cr

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			346137	340340	0
[	Be	9	0.219	ug/L	0.049	22	7	99	21
	C	13		mg/L			5980	14166	2
	Cl	37		mg/L			3044792	4195729	1
[>	Sc	45		ug/L			227993	285143	0
[	V-1	51	85.865	ug/L	0.318	0	1256	1109351	0
[	V	51	85.197	ug/L	0.309	0	3318	1123373	0
[	Cr	52	18.139	ug/L	0.072	0	4241	213027	0
[	Cr	53	19.815	ug/L	0.141	0	1138	28556	0
[	Mn	55	268.304	ug/L	1.621	0	336	5041596	0
[	Co	59	0.701	ug/L	0.011	1	35	10450	1
[>	Ge	72		ug/L			322645	309893	1
[	Ni	60	1.863	ug/L	0.067	3	77	4593	3
[	Ni	62	93.938	ug/L	9.302	9	47	34550	10
[	Cu	63	10.457	ug/L	0.637	6	215	59080	6
[	Cu	65	1.292	ug/L	0.037	2	103	3622	3
[	Zn	66	7.110	ug/L	0.162	2	184	13417	1
[	Zn	67	13.629	ug/L	0.095	0	117	4342	0
[	Zn	68	7.498	ug/L	0.111	1	4744	14522	1
[	As-1	75	7.522	ug/L	0.116	1	309	13518	0
[	As	75	7.784	ug/L	0.131	1	7188	20569	0
[	Se	82	1.253	ug/L	0.045	3	-2	196	2
[	Se	78	2.725	ug/L	0.141	5	7264	8071	0
[	Mo	98	1.501	ug/L	0.019	1	35	8938	0
	Y	89		ug/L			258568	445517	0
	Kr	83		ug/L			164	214	4
[>	In	115		ug/L			342647	329097	1
[	Ag	107	U 0.051	ug/L	0.006	11	102	647	8
[	Cd	111	-0.300	ug/L	0.121	40	148	-641	48
[	Cd	114	U 0.004	ug/L	0.002	41	23	44	19
[	Sb	121	0.087	ug/L	0.004	4	158	1002	3
[	Sb	123	0.087	ug/L	0.005	6	125	763	5
[	Ba	135	13.334	ug/L	0.215	1	23	27923	1
[	Ba	137	13.274	ug/L	0.244	1	28	46862	0
[>	Tb	159	U	ug/L			358639	348965	0
[	Tl	205	0.004	ug/L	0.000	9	146	237	4
[	Pb	208	V 0.158	ug/L	0.001	0	641	5630	0
[	Bi	209		ug/L			288543	258224	0
[	Th	232	0.185	ug/L	0.005	2	343	7042	2
[	U	238	0.044	ug/L	0.001	1	65	1741	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ39 F REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, March 29, 2010 19:09:43
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

ren
CS

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			346137	343057	0
[	Be	9	0.053	ug/L	0.024	45	7	29	34
	C	13		mg/L			5980	9482	1
	Cl	37		mg/L			3044792	2963398	0
[>	Sc	45		ug/L			227993	277126	0
[	V-1	51	15.757	ug/L	0.112	0	1256	~~199107~~	1
[	V	51	15.879	ug/L	0.105	0	3318	206774	0
[	Cr	52	4.141	ug/L	0.042	1	4241	51247	0
[	Cr	53	5.155	ug/L	0.203	3	1138	8242	2
[	Mn	55	542.834	ug/L	7.338	1	336	9912897	1
[	Co	59	0.891	ug/L	0.009	1	35	12901	0
[>	Ge	72		ug/L			322645	313203	1
[	Ni	60	4.982	ug/L	0.064	1	77	12291	2
[	Ni	62	38.700	ug/L	0.975	2	47	14407	2
[	Cu	63	3.314	ug/L	0.092	2	215	19060	2
[	Cu	65	U 0.430	ug/L	0.014	3	103	1286	2
[	Zn	66	23.940	ug/L	0.412	1	184	45238	0
[	Zn	67	23.257	ug/L	0.449	1	117	7408	1
[	Zn	68	24.482	ug/L	0.378	1	4744	37491	1
[	As-1	75	13.162	ug/L	0.156	1	309	23682	0
[	As	75	13.399	ug/L	0.199	1	7188	30752	0
[	Se	82	0.390	ug/L	0.012	3	-2	60	4
[	Se	78	1.474	ug/L	0.209	14	7264	7649	0
[	Mo	98	1.798	ug/L	0.022	1	35	10817	0
	Y	89		ug/L			258568	303369	1
	Kr	83		ug/L			164	178	1
[>	In	115		ug/L			342647	333817	1
[	Ag	107	U 0.007	ug/L	0.001	14	102	178	7
[	Cd	111	U -0.055	ug/L	0.017	31	148	-2	2013
[	Cd	114	0.004	ug/L	0.000	6	23	48	4
[	Sb	121	0.035	ug/L	0.002	6	158	501	3
[	Sb	123	0.034	ug/L	0.001	4	125	377	1
[	Ba	135	19.760	ug/L	0.265	1	23	41964	0
[	Ba	137	19.716	ug/L	0.124	0	28	70602	1
[>	Tb	159		ug/L			358639	342652	1
[	Tl	205	U 0.010	ug/L	0.001	9	146	364	6
[	Pb	208	U 0.042	ug/L	0.001	3	641	1927	3
[	Bi	209		ug/L			288543	265606	0
[	Th	232	0.033	ug/L	0.002	5	343	1502	3
[	U	238	0.013	ug/L	0.001	5	65	565	3

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ39 G REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, March 29, 2010 19:17:31
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			346137	355396	1
[	Be	9	0.024	ug/L	0.010	42	7	17	26
	C	13		mg/L			5980	9935	2
	Cl	37		mg/L			3044792	4397216	0
[>	Sc	45		ug/L			227993	260397	0
|	V-1	51	5.510	ug/L	0.067	1	1256	66348	0
|	V	51	6.212	ug/L	0.032	0	3318	78314	0
|	Cr	52	1.707	ug/L	0.022	1	4241	22697	0
|	Cr	53	4.071	ug/L	0.108	2	1138	6391	2
|	Mn	55	476.961	ug/L	9.207	1	336	8183722	1
[	Co	59	0.444	ug/L	0.003	0	35	6060	1
[>	Ge	72		ug/L			322645	299957	0
|	Ni	60	4.630	ug/L	0.029	0	77	10943	0
|	Ni	62	42.002	ug/L	3.541	8	47	14969	7
|	Cu	63	3.917	ug/L	0.240	6	215	21538	5
|	Cu	65	U 0.212	ug/L	0.014	6	103	655	5
|	Zn	66	35.120	ug/L	0.095	0	184	63484	0
|	Zn	67	32.431	ug/L	0.231	0	117	9851	0
|	Zn	68	35.213	ug/L	0.409	1	4744	49715	1
|	As-1	75	0.624	ug/L	0.015	2	309	1350	1
|	As	75	0.784	ug/L	0.033	4	7188	8014	0
|	Se	82	0.708	ug/L	0.106	14	-2	106	14
|	Se	78	1.634	ug/L	0.056	3	7264	7388	0
[	Mo	98	3.733	ug/L	0.039	1	35	21474	0
	Y	89		ug/L			258568	267825	0
	Kr	83		ug/L			164	188	5
[>	In	115		ug/L			342647	321125	2
|	Ag	107	J 0.004	ug/L	0.001	27	102	141	10
|	Cd	111	J -0.147	ug/L	0.039	26	148	-234	42
|	Cd	114	0.006	ug/L	0.002	25	23	59	17
|	Sb	121	0.068	ug/L	0.005	7	158	793	4
|	Sb	123	0.066	ug/L	0.006	9	125	591	6
|	Ba	135	12.807	ug/L	0.040	0	23	26173	1
[	Ba	137	12.750	ug/L	0.291	2	28	43916	0
[>	Tb	159		ug/L			358639	333478	0
|	Tl	205	U 0.002	ug/L	0.001	36	146	185	9
|	Pb	208	J 0.059	ug/L	0.002	2	641	2385	2
|	Bi	209		ug/L			288543	254673	0
|	Th	232	0.011	ug/L	0.001	10	343	714	5
[	U	238	0.005	ug/L	0.000	5	65	245	4

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ46 B REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, March 29, 2010 19:25:18
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			346137	349020	1
[	Be	9	0.230	ug/L	0.025	10	7	106	8
	C	13		mg/L			5980	10348	1
	Cl	37		mg/L			3044792	2840832	0
[>	Sc	45		ug/L			227993	273109	0
[	V-1	51	39.167	ug/L	0.416	1	1256	485479	0
[	V	51	38.944	ug/L	0.459	1	3318	493974	0
[	Cr	52	10.471	ug/L	0.092	0	4241	119925	0
[	Cr	53	11.365	ug/L	0.263	2	1138	16268	1
[	Mn	55	121.639	ug/L	1.082	0	336	2189381	0
[	Co	59	1.339	ug/L	0.022	1	35	19084	1
[>	Ge	72		ug/L			322645	297766	0
[	Ni	60	8.421	ug/L	0.075	0	77	19699	0
[	Ni	62	34.988	ug/L	1.581	4	47	12390	4
[	Cu	63	20.136	ug/L	0.056	0	215	109109	0
[	Cu	65	17.663	ug/L	0.125	0	103	46368	1
[	Zn	66	14.340	ug/L	0.092	0	184	25832	0
[	Zn	67	16.304	ug/L	0.348	2	117	4970	2
[	Zn	68	14.479	ug/L	0.100	0	4744	22870	1
[	As-1	75	6.322	ug/L	0.059	0	309	10963	0
[	As	75	6.587	ug/L	0.046	0	7188	17747	0
[	Se	82	0.915	ug/L	0.084	9	-2	137	9
[	Se	78	2.372	ug/L	0.150	6	7264	7619	1
[	Mo	98	5.326	ug/L	0.125	2	35	30400	2
	Y	89		ug/L			258568	423122	0
	Kr	83		ug/L			164	201	3
[>	In	115		ug/L			342647	314750	0
[	Ag	107	U 0.051	ug/L	0.002	3	102	621	3
[	Cd	111	U 0.130	ug/L	0.029	22	148	462	15
[	Cd	114	0.037	ug/L	0.004	11	23	241	10
[	Sb	121	0.260	ug/L	0.005	1	158	2576	2
[	Sb	123	0.265	ug/L	0.017	6	125	1993	6
[	Ba	135	14.687	ug/L	0.181	1	23	29415	0
[	Ba	137	14.824	ug/L	0.250	1	28	50058	1
[>	Tb	159		ug/L			358639	341048	0
[	Tl	205	U 0.015	ug/L	0.000	3	146	491	2
[	Pb	208	U 0.641	ug/L	0.004	0	641	20512	1
[	Bi	209		ug/L			288543	258606	0
[	Th	232	0.474	ug/L	0.002	0	343	17147	1
[	U	238	0.436	ug/L	0.005	1	65	16301	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ46 C REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, March 29, 2010 19:32:06
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			346137	364817	1
[	Be	9	0.026	ug/L	0.004	14	7	19	7
	C	13		mg/L			5980	8782	0
	Cl	37		mg/L			3044792	2814611	1
[>	Sc	45		ug/L			227993	258103	0
[	V-1	51	10.051	ug/L	0.138	1	1256	118794	1
[	V	51	10.178	ug/L	0.125	1	3318	124780	1
[	Cr	52	1.775	ug/L	0.011	0	4241	23206	1
[	Cr	53	2.620	ug/L	0.040	1	1138	4536	0
[	Mn	55	522.396	ug/L	6.242	1	336	8884467	0
[	Co	59	0.645	ug/L	0.004	0	35	8715	1
[>	Ge	72		ug/L			322645	307760	1
[	Ni	60	1.301	ug/L	0.044	3	77	3207	2
[	Ni	62	16.332	ug/L	0.558	3	47	6000	3
[	Cu	63	2.198	ug/L	0.003	0	215	12493	1
[	Cu	65	1.236	ug/L	0.020	1	103	3444	1
[	Zn	66	4.164	ug/L	0.019	0	184	7877	1
[	Zn	67	5.009	ug/L	0.234	4	117	1656	5
[	Zn	68	4.684	ug/L	0.210	4	4744	10706	1
[	As-1	75	8.601	ug/L	0.125	1	309	15308	0
[	As	75	8.733	ug/L	0.185	2	7188	22082	0
[	Se	82	0.225	ug/L	0.137	60	-2	33	64
[	Se	78	0.895	ug/L	0.329	36	7264	7285	0
[	Mo	98	2.481	ug/L	0.028	1	35	14652	1
	Y	89		ug/L			258568	280576	0
	Kr	83		ug/L			164	178	6
[>	In	115		ug/L			342647	330561	0
[	Ag	107	0.007	ug/L	0.000	6	102	170	2
[	Cd	111	0.015	ug/L	0.031	205	148	183	44
[	Cd	114	0.006	ug/L	0.001	15	23	57	9
[	Sb	121	0.075	ug/L	0.002	3	158	890	2
[	Sb	123	0.071	ug/L	0.008	10	125	648	9
[	Ba	135	16.082	ug/L	0.154	0	23	33826	0
[	Ba	137	16.315	ug/L	0.205	1	28	57863	1
[>	Tb	159		ug/L			358639	349154	0
[	Tl	205	0.008	ug/L	0.000	2	146	340	1
[	Pb	208	0.127	ug/L	0.003	2	641	4663	2
[	Bi	209		ug/L			288543	271102	1
[	Th	232	0.048	ug/L	0.001	1	343	2074	1
[	U	238	0.014	ug/L	0.001	6	65	587	6

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ46 D REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, March 29, 2010 19:38:55
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			346137	367981	0
[	Be	9	0.044	ug/L	0.014	31	7	27	22
	C	13		mg/L			5980	9559	0
	Cl	37		mg/L			3044792	3576360	0
[>	Sc	45		ug/L			227993	254022	1
[	V-1	51	6.935	ug/L	0.145	2	1256	81088	0
[	V	51	7.371	ug/L	0.141	1	3318	89940	0
[	Cr	52	1.847	ug/L	0.038	2	4241	23566	1
[	Cr	53	3.464	ug/L	0.023	0	1138	5493	1
[	Mn	55	463.422	ug/L	1.683	0	336	7757438	1
[	Co	59	0.579	ug/L	0.011	1	35	7698	1
[>	Ge	72		ug/L			322645	293369	0
[	Ni	60	2.660	ug/L	0.085	3	77	6179	2
[	Ni	62	25.127	ug/L	0.499	1	47	8778	1
[	Cu	63	2.430	ug/L	0.054	2	215	13145	1
[	Cu	65	J 0.375	ug/L	0.024	6	103	1061	5
[	Zn	66	11.511	ug/L	0.038	0	184	20463	0
[	Zn	67	11.223	ug/L	0.225	2	117	3404	1
[	Zn	68	11.779	ug/L	0.228	1	4744	19135	1
[	As-1	75	0.435	ug/L	0.004	0	309	1005	0
[	As	75	0.524	ug/L	0.081	15	7188	7406	1
[	Se	82	0.564	ug/L	0.076	13	-2	82	14
[	Se	78	1.119	ug/L	0.293	26	7264	7030	1
[	Mo	98	2.047	ug/L	0.039	1	35	11533	1
	Y	89		ug/L			258568	268935	0
	Kr	83		ug/L			164	174	2
[>	In	115		ug/L			342647	313137	0
[	Ag	107	U 0.005	ug/L	0.000	3	102	144	1
[	Cd	111	-0.100	ug/L	0.034	33	148	-114	73
[	Cd	114	U 0.006	ug/L	0.002	34	23	59	21
[	Sb	121	0.050	ug/L	0.003	5	158	610	3
[	Sb	123	0.047	ug/L	0.006	12	125	445	8
[	Ba	135	9.189	ug/L	0.072	0	23	18319	1
[	Ba	137	9.315	ug/L	0.070	0	28	31304	0
[>	Tb	159		ug/L			358639	335545	1
[	Tl	205	U 0.004	ug/L	0.001	25	146	223	10
[	Pb	208	J 0.090	ug/L	0.001	1	641	3341	2
[	Bi	209		ug/L			288543	248644	1
[	Th	232	0.027	ug/L	0.001	5	343	1249	2
[	U	238	0.011	ug/L	0.001	6	65	475	4

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ46 E REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, March 29, 2010 19:45:44
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass		Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6			ug/L			346137	380614	1
[	Be	9		0.113	ug/L	0.006	5	7	60	3
	C	13			mg/L			5980	10530	0
	Cl	37			mg/L			3044792	3160381	1
[>	Sc	45			ug/L			227993	256902	0
[	V-1	51		27.919	ug/L	0.282	1	1256	325947	1
[	V	51		27.925	ug/L	0.263	0	3318	334265	1
[	Cr	52		4.596	ug/L	0.089	1	4241	52197	2
[	Cr	53		5.897	ug/L	0.043	0	1138	8558	1
[	Mn	55		117.765	ug/L	3.405	2	336	1994193	3
[	Co	59		1.603	ug/L	0.014	0	35	21483	1
[>	Ge	72			ug/L			322645	294848	1
[	Ni	60		3.203	ug/L	0.024	0	77	7463	2
[	Ni	62		23.258	ug/L	0.738	3	47	8167	2
[	Cu	63		6.312	ug/L	0.082	1	215	34001	1
[	Cu	65		4.701	ug/L	0.078	1	103	12287	0
[	Zn	66		10.607	ug/L	0.117	1	184	18964	1
[	Zn	67		11.783	ug/L	0.153	1	117	3586	0
[	Zn	68		10.784	ug/L	0.154	1	4744	17972	1
[	As-1	75		2.494	ug/L	0.011	0	309	4454	2
[	As	75		2.571	ug/L	0.048	1	7188	10862	0
[	Se	82		0.671	ug/L	0.028	4	-2	99	5
[	Se	78		1.185	ug/L	0.270	22	7264	7090	0
[	Mo	98		10.528	ug/L	0.114	1	35	59465	1
	Y	89			ug/L			258568	333082	1
	Kr	83			ug/L			164	178	1
[>	In	115			ug/L			342647	319155	1
[	Ag	107	U	0.027	ug/L	0.001	2	102	383	1
[	Cd	111	U	0.048	ug/L	0.027	57	148	259	25
[	Cd	114		0.022	ug/L	0.002	9	23	153	9
[	Sb	121		0.186	ug/L	0.008	4	158	1910	3
[	Sb	123		0.178	ug/L	0.004	2	125	1394	3
[	Ba	135		13.646	ug/L	0.150	1	23	27718	2
[	Ba	137		13.821	ug/L	0.259	1	28	47323	1
[>	Tb	159			ug/L			358639	343518	2
[	Tl	205	U	0.009	ug/L	0.001	10	146	352	5
[	Pb	208	U	0.731	ug/L	0.004	0	641	23452	1
[	Bi	209			ug/L			288543	254728	2
[	Th	232		0.304	ug/L	0.005	1	343	11186	2
[	U	238		0.096	ug/L	0.001	1	65	3671	2

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ46 F REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, March 29, 2010 19:52:33
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			346137	380547	2
[	Be	9	0.025	ug/L	0.020	80	7	19	48
	C	13		mg/L			5980	9176	1
	Cl	37		mg/L			3044792	2854504	0
[>	Sc	45		ug/L			227993	259707	1
[	V-1	51	6.358	ug/L	0.025	0	1256	76135	1
[	V	51	6.534	ug/L	0.044	0	3318	81964	1
[	Cr	52	1.480	ug/L	0.016	1	4241	20263	0
[	Cr	53	2.291	ug/L	0.072	3	1138	4153	2
[	Mn	55	886.432	ug/L	18.141	2	336	15167898	1
[	Co	59	0.769	ug/L	0.013	1	35	10447	1
[>	Ge	72		ug/L			322645	299742	1
[	Ni	60	1.907	ug/L	0.034	1	77	4547	1
[	Ni	62	19.745	ug/L	0.662	3	47	7058	4
[	Cu	63	1.550	ug/L	0.034	2	215	8636	1
[	Cu	65	J 0.217	ug/L	0.009	4	103	668	4
[	Zn	66	9.852	ug/L	0.028	0	184	17919	1
[	Zn	67	9.472	ug/L	0.279	2	117	2952	3
[	Zn	68	10.071	ug/L	0.143	1	4744	17353	0
[	As-1	75	10.594	ug/L	0.038	0	309	18299	1
[	As	75	10.644	ug/L	0.046	0	7188	24753	1
[	Se	82	0.271	ug/L	0.051	18	-2	39	20
[	Se	78	0.594	ug/L	0.291	48	7264	6979	0
[	Mo	98	3.544	ug/L	0.065	1	35	20374	2
	Y	89		ug/L			258568	272350	0
	Kr	83		ug/L			164	176	1
[>	In	115		ug/L			342647	325183	0
[	Ag	107	U -0.000	ug/L	0.001	2130	102	96	16
[	Cd	111	-0.085	ug/L	0.019	21	148	-79	61
[	Cd	114	U 0.005	ug/L	0.001	15	23	55	9
[	Sb	121	0.029	ug/L	0.003	11	158	434	6
[	Sb	123	0.028	ug/L	0.002	7	125	327	4
[	Ba	135	9.677	ug/L	0.086	0	23	20030	0
[	Ba	137	9.764	ug/L	0.135	1	28	34073	0
[>	Tb	159		ug/L			358639	345510	0
[	Tl	205	U 0.008	ug/L	0.001	17	146	338	9
[	Pb	208	J 0.031	ug/L	0.001	3	641	1582	1
[	Bi	209		ug/L			288543	262621	1
[	Th	232	0.010	ug/L	0.001	8	343	695	4
[	U	238	0.016	ug/L	0.001	7	65	658	6

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ46 G REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, March 29, 2010 19:59:24
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
>	Li	6		ug/L			346137	371124	1
	Be	9	0.011	ug/L	0.015	137	7	12	52
	C	13		mg/L			5980	8758	0
	Cl	37		mg/L			3044792	2579587	0
>	Sc	45		ug/L			227993	242662	0
	V-1	51	4.447	ug/L	0.059	1	1256	50155	0
	V	51	4.592	ug/L	0.067	1	3318	54862	0
	Cr	52	0.818	ug/L	0.029	3	4241	12486	1
	Cr	53	1.463	ug/L	0.075	5	1138	2916	2
	Mn	55	394.944	ug/L	4.532	1	336	6315379	0
	Co	59	1.202	ug/L	0.010	0	35	15230	0
>	Ge	72		ug/L			322645	287982	1
	Ni	60	1.528	ug/L	0.060	3	77	3512	2
	Ni	62	13.015	ug/L	0.627	4	47	4482	4
	Cu	63	1.252	ug/L	0.081	6	215	6738	5
	Cu	65	0.659	ug/L	0.016	2	103	1761	3
	Zn	66	3.072	ug/L	0.006	0	184	5481	1
	Zn	67	3.358	ug/L	0.083	2	117	1073	3
	Zn	68	3.472	ug/L	0.049	1	4744	8522	0
	As-1	75	15.575	ug/L	0.057	0	309	25717	0
	As	75	15.671	ug/L	0.127	0	7188	31984	0
	Se	82	0.452	ug/L	0.130	28	-2	64	28
	Se	78	0.903	ug/L	0.396	43	7264	6820	1
	Mo	98	1.344	ug/L	0.047	3	35	7443	3
	Y	89		ug/L			258568	251336	1
	Kr	83		ug/L			164	162	5
>	In	115		ug/L			342647	312629	0
	Ag	107	U -0.000	ug/L	0.000	80	102	90	2
	Cd	111	U 0.009	ug/L	0.014	153	148	158	22
	Cd	114	0.003	ug/L	0.001	47	23	38	20
	Sb	121	0.038	ug/L	0.002	4	158	496	3
	Sb	123	0.038	ug/L	0.002	5	125	379	3
	Ba	135	7.759	ug/L	0.054	0	23	15447	0
	Ba	137	7.951	ug/L	0.084	1	28	26682	1
>	Tb	159	U	ug/L			358639	333004	1
	Tl	205	U 0.007	ug/L	0.001	14	146	300	6
	Pb	208	0.046	ug/L	0.001	2	641	1994	0
	Bi	209		ug/L			288543	258198	0
	Th	232	0.012	ug/L	0.001	9	343	744	4
	U	238	0.006	ug/L	0.001	10	65	272	6

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV6
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, March 29, 2010 20:06:13
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
⌈>	Li	6		ug/L			346137	369092	0
⌊	Be	9	48.269	ug/L	0.359	0	7	22078	0
	C	13		mg/L			5980	4591	1
	Cl	37		mg/L			3044792	2688557	1
⌈>	Sc	45		ug/L			227993	202119	0
⌈	V-1	51	48.694	ug/L	0.414	0	1256	446429	1
⌊	V	51	49.004	ug/L	0.148	0	3318	459270	0
⌈	Cr	52	48.971	ug/L	0.181	0	4241	401259	0
⌊	Cr	53	49.907	ug/L	0.696	1	1138	49449	1
⌈	Mn	55	49.267	ug/L	0.246	0	336	656453	0
⌊	Co	59	48.273	ug/L	0.586	1	35	508229	1
⌈>	Ge	72		ug/L			322645	284847	1
⌈	Ni	60	48.436	ug/L	0.881	1	77	108049	0
⌊	Ni	62	58.447	ug/L	1.537	2	47	19766	1
⌈	Cu	63	49.667	ug/L	0.606	1	215	257154	0
⌊	Cu	65	49.456	ug/L	0.955	1	103	124012	1
⌈	Zn	66	49.322	ug/L	0.400	0	184	84593	0
⌊	Zn	67	47.770	ug/L	1.050	2	117	13730	2
⌈	Zn	68	48.911	ug/L	0.331	0	4744	63943	1
⌈	As-1	75	49.101	ug/L	0.541	1	309	79601	0
⌊	As	75	49.131	ug/L	0.577	1	7188	85630	0
⌈	Se	82	51.675	ug/L	1.138	2	-2	7537	1
⌊	Se	78	51.940	ug/L	0.881	1	7264	25575	0
⌊	Mo	98	50.168	ug/L	0.344	0	35	273653	0
	Y	89		ug/L			258568	229395	0
	Kr	83		ug/L			164	168	0
⌈>	In	115		ug/L			342647	308721	0
⌈	Ag	107	50.861	ug/L	0.454	0	102	516936	0
⌈	Cd	111	50.585	ug/L	0.599	1	148	124492	0
⌊	Cd	114	50.231	ug/L	0.430	0	23	291856	0
⌈	Sb	121	50.277	ug/L	0.227	0	158	460929	0
⌊	Sb	123	50.337	ug/L	0.126	0	125	350001	0
⌈	Ba	135	50.187	ug/L	0.265	0	23	98546	0
⌊	Ba	137	50.387	ug/L	0.542	1	28	166828	0
⌈>	Tb	159		ug/L			358639	326308	0
⌈	Tl	205	51.084	ug/L	0.167	0	146	1144918	0
⌈	Pb	208	52.357	ug/L	0.340	0	641	1554883	0
⌈	Bi	209		ug/L			288543	263321	0
⌈	Th	232	52.471	ug/L	0.616	1	343	1782016	1
⌊	U	238	52.940	ug/L	0.236	0	65	1888668	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB6
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, March 29, 2010 20:13:41
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			346137	377360	1
[	Be	9	-0.006	ug/L	0.007	118	7	5	66
	C	13		mg/L			5980	5397	0
	Cl	37		mg/L			3044792	2693190	0
[>	Sc	45		ug/L			227993	203834	0
[	V-1	51	-0.016	ug/L	0.022	139	1256	977	21
[	V	51	0.221	ug/L	0.009	4	3318	5038	1
[	Cr	52	-0.008	ug/L	0.010	121	4241	3725	2
[	Cr	53	0.717	ug/L	0.061	8	1138	1719	3
[	Mn	55	0.049	ug/L	0.001	2	336	965	1
[	Co	59	0.001	ug/L	0.001	62	35	42	16
[>	Ge	72		ug/L			322645	283877	0
[	Ni	60	-0.006	ug/L	0.005	85	77	54	22
[	Ni	62	7.712	ug/L	0.126	1	47	2635	1
[	Cu	63	0.221	ug/L	0.006	2	215	1328	2
[	Cu	65	0.000	ug/L	0.003	710	103	92	9
[	Zn	66	0.023	ug/L	0.006	25	184	202	5
[	Zn	67	0.133	ug/L	0.060	44	117	141	12
[	Zn	68	0.151	ug/L	0.049	32	4744	4358	1
[	As-1	75	0.042	ug/L	0.013	31	309	340	6
[	As	75	0.259	ug/L	0.065	25	7188	6741	1
[	Se	82	0.039	ug/L	0.064	165	-2	3	261
[	Se	78	1.144	ug/L	0.273	23	7264	6812	1
[	Mo	98	0.004	ug/L	0.003	65	35	54	27
	Y	89		ug/L			258568	234277	0
	Kr	83		ug/L			164	167	2
[>	In	115		ug/L			342647	312644	0
[	Ag	107	-0.004	ug/L	0.001	27	102	55	18
[	Cd	111	-0.004	ug/L	0.008	180	148	125	15
[	Cd	114	0.002	ug/L	0.001	49	23	35	19
[	Sb	121	0.011	ug/L	0.002	15	158	245	6
[	Sb	123	0.013	ug/L	0.005	37	125	207	17
[	Ba	135	0.007	ug/L	0.003	42	23	34	16
[	Ba	137	0.012	ug/L	0.003	26	28	67	15
[>	Tb	159		ug/L			358639	330133	0
[	Tl	205	0.006	ug/L	0.001	21	146	260	10
[	Pb	208	0.027	ug/L	0.002	7	641	1411	4
[	Bi	209		ug/L			288543	268475	0
[	Th	232	0.003	ug/L	0.001	23	343	435	6
[	U	238	0.001	ug/L	0.001	77	65	91	25

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ17 MB1 REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, March 29, 2010 20:21:10
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
⌈>	Li	6		ug/L			346137	385993	1
⌊	Be	9	U -0.001	ug/L	0.005	691	7	7	33
	C	13		mg/L			5980	7257	2
	Cl	37		mg/L			3044792	2668377	0
⌈>	Sc	45		ug/L			227993	208506	1
|	V-1	51	0.025	ug/L	0.029	114	1256	1384	18
|	V	51	0.217	ug/L	0.006	2	3318	5115	0
|	Cr	52	0.021	ug/L	0.007	34	4241	4059	2
|	Cr	53	0.609	ug/L	0.083	13	1138	1651	6
|	Mn	55	0.022	ug/L	0.001	2	336	610	2
⌊	Co	59	0.002	ug/L	0.001	26	35	58	12
⌈>	Ge	72		ug/L			322645	290374	0
|	Ni	60	U 0.053	ug/L	0.013	24	77	191	15
|	Ni	62	6.439	ug/L	0.085	1	47	2258	1
|	Cu	63	U 0.228	ug/L	0.006	2	215	1396	2
|	Cu	65	0.046	ug/L	0.002	4	103	210	2
|	Zn	66	1.003	ug/L	0.018	1	184	1916	1
|	Zn	67	0.955	ug/L	0.047	4	117	383	3
|	Zn	68	U 1.006	ug/L	0.047	4	4744	5523	1
|	As-1	75	0.041	ug/L	0.012	29	309	345	5
|	As	75	0.158	ug/L	0.050	31	7188	6729	0
|	Se	82	-0.056	ug/L	0.095	169	-2	-10	134
|	Se	78	0.668	ug/L	0.190	28	7264	6789	0
⌊	Mo	98	0.005	ug/L	0.001	21	35	60	9
	Y	89		ug/L			258568	238983	0
	Kr	83		ug/L			164	179	8
⌈>	In	115		ug/L			342647	319614	0
|	Ag	107	U -0.005	ug/L	0.000	5	102	39	6
|	Cd	111	-0.003	ug/L	0.005	142	148	130	8
|	Cd	114	0.001	ug/L	0.001	71	23	29	19
|	Sb	121	U -0.002	ug/L	0.001	73	158	129	10
|	Sb	123	-0.002	ug/L	0.001	29	125	100	5
|	Ba	135	1.073	ug/L	0.011	0	23	2202	1
⌊	Ba	137	1.058	ug/L	0.018	1	28	3653	2
⌈>	Tb	159		ug/L			358639	337191	0
|	Tl	205	U -0.001	ug/L	0.000	43	146	119	6
|	Pb	208	U 0.045	ug/L	0.000	0	641	1984	0
|	Bi	209		ug/L			288543	275791	0
|	Th	232	-0.003	ug/L	0.001	41	343	224	19
⌊	U	238	0.000	ug/L	0.000	43	65	70	5

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ17 MB2 REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, March 29, 2010 20:28:01
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			346137	388583	1
[	Be	9	U 0.005	ug/L	0.006	120	7	10	27
	C	13		mg/L			5980	7141	1
	Cl	37		mg/L			3044792	2646780	0
[>	Sc	45		ug/L			227993	207265	1
[	V-1	51	0.024	ug/L	0.006	23	1256	1368	4
[	V	51	0.208	ug/L	0.017	8	3318	5001	2
[	Cr	52	0.053	ug/L	0.004	7	4241	4299	1
[	Cr	53	0.615	ug/L	0.037	6	1138	1647	1
[	Mn	55	0.030	ug/L	0.002	7	336	716	5
[	Co	59	0.002	ug/L	0.001	37	35	57	15
[>	Ge	72		ug/L			322645	287066	0
[	Ni	60	U 0.020	ug/L	0.002	8	77	115	2
[	Ni	62	5.481	ug/L	0.103	1	47	1906	2
[	Cu	63	U 0.175	ug/L	0.014	7	215	1105	6
[	Cu	65	0.023	ug/L	0.004	16	103	151	6
[	Zn	66	0.593	ug/L	0.014	2	184	1186	2
[	Zn	67	0.633	ug/L	0.056	8	117	286	6
[	Zn	68	0.588	ug/L	0.097	16	4744	4945	2
[	As-1	75	U 0.035	ug/L	0.009	24	309	332	4
[	As	75	0.129	ug/L	0.057	44	7188	6605	1
[	Se	82	0.016	ug/L	0.010	66	-2	0	756
[	Se	78	0.577	ug/L	0.209	36	7264	6678	1
[	Mo	98	-0.000	ug/L	0.001	248	35	30	15
	Y	89		ug/L			258568	238150	1
	Kr	83		ug/L			164	168	0
[>	In	115		ug/L			342647	318329	0
[	Ag	107	U -0.006	ug/L	0.001	14	102	36	23
[	Cd	111	-0.007	ug/L	0.001	20	148	119	2
[	Cd	114	-0.000	ug/L	0.001	676	23	21	20
[	Sb	121	U -0.009	ug/L	0.001	13	158	65	17
[	Sb	123	-0.010	ug/L	0.001	14	125	47	22
[	Ba	135	0.019	ug/L	0.003	15	23	59	9
[	Ba	137	0.019	ug/L	0.003	13	28	92	9
[>	Tb	159		ug/L			358639	337653	0
[	Tl	205	U -0.001	ug/L	0.000	25	146	108	6
[	Pb	208	U 0.005	ug/L	0.001	21	641	748	4
[	Bi	209		ug/L			288543	273971	0
[	Th	232	-0.005	ug/L	0.001	15	343	150	17
[	U	238	0.000	ug/L	0.000	63	65	71	8

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ17 MB2SPK REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, March 29, 2010 20:34:52
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
⌈>	**Li**	**6**		ug/L			346137	386583	1
⌊	**Be**	**9**	**24.426**	ug/L	0.684	2	7	11704	2
	C	**13**		mg/L			5980	6668	2
	Cl	**37**		mg/L			3044792	2658723	0
⌈>	**Sc**	**45**		ug/L			227993	204149	0
|	**V-1**	**51**	**25.823**	ug/L	0.177	0	1256	239646	0
|	**V**	**51**	**26.126**	ug/L	0.251	0	3318	248700	1
|	**Cr**	**52**	**26.133**	ug/L	0.212	0	4241	218054	0
|	**Cr**	**53**	**27.047**	ug/L	0.060	0	1138	27535	0
|	**Mn**	**55**	**26.502**	ug/L	0.192	0	336	356814	0
⌊	**Co**	**59**	**26.025**	ug/L	0.124	0	35	276758	0
⌈>	**Ge**	**72**		ug/L			322645	283107	0
|	**Ni**	**60**	**26.295**	ug/L	0.268	1	77	58339	1
|	**Ni**	**62**	**30.670**	ug/L	0.453	1	47	10330	1
|	**Cu**	**63**	**27.341**	ug/L	0.222	0	215	140793	0
|	**Cu**	**65**	**27.192**	ug/L	0.213	0	103	67818	0
|	**Zn**	**66**	**82.282**	ug/L	0.426	0	184	140164	0
|	**Zn**	**67**	**75.595**	ug/L	0.370	0	117	21537	0
|	**Zn**	**68**	**80.796**	ug/L	0.621	0	4744	102272	0
|	**As-1**	**75**	**25.927**	ug/L	0.018	0	309	41907	0
|	**As**	**75**	**25.565**	ug/L	0.187	0	7188	47313	0
|	**Se**	**82**	**84.554**	ug/L	0.561	0	-2	12260	0
|	**Se**	**78**	**83.353**	ug/L	0.758	0	7264	36941	0
⌊	**Mo**	**98**	**26.482**	ug/L	0.017	0	35	143593	0
	Y	**89**		ug/L			258568	236469	1
	Kr	**83**		ug/L			164	163	8
⌈>	**In**	**115**		ug/L			342647	313926	0
|	**Ag**	**107**	**25.588**	ug/L	0.104	0	102	264496	0
|	**Cd**	**111**	**26.192**	ug/L	0.090	0	148	65612	0
|	**Cd**	**114**	**26.123**	ug/L	0.118	0	23	154356	0
|	**Sb**	**121**	**26.193**	ug/L	0.180	0	158	244251	0
|	**Sb**	**123**	**25.825**	ug/L	0.224	0	125	182646	0
|	**Ba**	**135**	**26.411**	ug/L	0.204	0	23	52742	0
⌊	**Ba**	**137**	**26.613**	ug/L	0.263	0	28	89609	0
⌈>	**Tb**	**159**		ug/L			358639	330809	0
|	**Tl**	**205**	**27.147**	ug/L	0.332	1	146	616888	1
|	**Pb**	**208**	**28.399**	ug/L	0.093	0	641	855279	0
|	**Bi**	**209**		ug/L			288543	273247	0
|	**Th**	**232**	**28.343**	ug/L	0.089	0	343	976012	1
⌊	**U**	**238**	**28.441**	ug/L	0.332	1	65	1028638	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ17 MB1SPK REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, March 29, 2010 20:42:40
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			346137	382099	0
[	Be	9	23.870	ug/L	0.286	1	7	11306	0
	C	13		mg/L			5980	7061	0
	Cl	37		mg/L			3044792	2659863	0
[>	Sc	45		ug/L			227993	202169	0
[	V-1	51	25.095	ug/L	0.471	1	1256	230645	1
[	V	51	25.366	ug/L	0.362	1	3318	239193	0
[	Cr	52	25.467	ug/L	0.260	1	4241	210525	0
[	Cr	53	26.279	ug/L	0.078	0	1138	26522	0
[	Mn	55	25.505	ug/L	0.200	0	336	340063	0
[	Co	59	24.979	ug/L	0.148	0	35	263059	0
[>	Ge	72		ug/L			322645	279491	0
[	Ni	60	25.705	ug/L	0.232	0	77	56303	0
[	Ni	62	28.734	ug/L	0.719	2	47	9557	2
[	Cu	63	26.891	ug/L	0.320	1	215	136712	1
[	Cu	65	26.499	ug/L	0.146	0	103	65248	0
[	Zn	66	80.705	ug/L	0.789	0	184	135724	0
[	Zn	67	74.286	ug/L	0.678	0	117	20895	0
[	Zn	68	78.291	ug/L	0.334	0	4744	97963	0
[	As-1	75	25.474	ug/L	0.236	0	309	40653	0
[	As	75	25.157	ug/L	0.206	0	7188	46063	0
[	Se	82	83.001	ug/L	0.644	0	-2	11881	0
[	Se	78	82.030	ug/L	0.574	0	7264	35990	0
[	Mo	98	25.910	ug/L	0.319	1	35	138699	1
	Y	89		ug/L			258568	233169	0
	Kr	83		ug/L			164	166	5
[>	In	115		ug/L			342647	309768	0
[	Ag	107	25.126	ug/L	0.247	0	102	256284	0
[	Cd	111	25.638	ug/L	0.433	1	148	63374	1
[	Cd	114	25.326	ug/L	0.242	0	23	147659	0
[	Sb	121	25.486	ug/L	0.149	0	158	234512	0
[	Sb	123	25.510	ug/L	0.174	0	125	178037	1
[	Ba	135	25.778	ug/L	0.220	0	23	50799	0
[	Ba	137	26.122	ug/L	0.095	0	28	86796	0
[>	Tb	159		ug/L			358639	331092	0
[	Tl	205	26.308	ug/L	0.263	0	146	598338	1
[	Pb	208	27.444	ug/L	0.181	0	641	827226	0
[	Bi	209		ug/L			288543	273012	0
[	Th	232	27.227	ug/L	0.269	0	343	938327	0
[	U	238	27.529	ug/L	0.151	0	65	996531	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ17 A-L REN
Sample Dil Factor: 25
Comments:
Sample Date/Time: Monday, March 29, 2010 20:50:25
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

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	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			346137	362038	0
[	Be	9	U 0.000	ug/L	0.005	2921	7	7	33
	C	13		mg/L			5980	5150	0
	Cl	37		mg/L			3044792	4514900	1
[>	Sc	45		ug/L			227993	198612	1
[	V-1	51	0.230	ug/L	0.018	7	1256	3157	4
[	V	51	2.113	ug/L	0.027	1	3318	22228	1
[	Cr	52	0.465	ug/L	0.023	5	4241	7407	3
[	Cr	53	6.232	ug/L	0.074	1	1138	6935	2
[	Mn	55	5.397	ug/L	0.041	0	336	70927	0
[	Co	59	0.088	ug/L	0.002	2	35	940	1
[>	Ge	72		ug/L			322645	268333	0
[	Ni	60	U 0.388	ug/L	0.023	6	77	880	5
[	Ni	62	6.319	ug/L	0.098	1	47	2048	1
[	Cu	63	1.836	ug/L	0.015	0	215	9125	0
[	Cu	65	1.030	ug/L	0.030	2	103	2518	3
[	Zn	66	5.699	ug/L	0.030	0	184	9343	0
[	Zn	67	5.103	ug/L	0.069	1	117	1469	1
[	Zn	68	5.472	ug/L	0.105	1	4744	10243	1
[	As-1	75	0.444	ug/L	0.050	11	309	933	8
[	As	75	0.576	ug/L	0.052	9	7188	6853	1
[	Se	82	0.532	ug/L	0.031	5	-2	71	5
[	Se	78	1.365	ug/L	0.061	4	7264	6516	0
[	Mo	98	0.206	ug/L	0.005	2	35	1089	2
	Y	89		ug/L			258568	227151	1
	Kr	83		ug/L			164	172	5
[>	In	115		ug/L			342647	292844	1
[	Ag	107	U 0.008	ug/L	0.002	18	102	167	8
[	Cd	111	-0.038	ug/L	0.014	37	148	39	85
[	Cd	114	0.060	ug/L	0.001	1	23	351	2
[	Sb	121	U 0.176	ug/L	0.007	4	158	1664	2
[	Sb	123	0.171	ug/L	0.005	3	125	1234	1
[	Ba	135	1.834	ug/L	0.033	1	23	3435	0
[	Ba	137	1.879	ug/L	0.023	1	28	5923	1
[>	Tb	159		ug/L			358639	316598	1
[	Tl	205	U 0.005	ug/L	0.001	12	146	240	6
[	Pb	208	U 0.510	ug/L	0.003	0	641	15244	1
[	Bi	209		ug/L			288543	250466	0
[	Th	232	0.006	ug/L	0.000	0	343	515	1
[	U	238	0.036	ug/L	0.001	2	65	1318	2

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ17 A REN
Sample Dil Factor: 5
Comments:
Sample Date/Time: Monday, March 29, 2010 20:57:10
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

Penn AS

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			346137	319159	0
[	Be	9	V 0.009	ug/L	0.010	110	7	10	37
	C	13		mg/L			5980	5590	0
	Cl	37		mg/L			3044792	11403089	0
[>	Sc	45		ug/L			227993	192763	0
[	V-1	51	1.161	ug/L	0.144	12	1256	11188	11
[	V	51	8.308	ug/L	0.507	6	3318	76590	5
[	Cr	52	1.579	ug/L	0.032	2	4241	15811	1
[	Cr	53	23.486	ug/L	1.876	7	1138	22701	7
[	Mn	55	25.884	ug/L	0.209	0	336	329060	0
[	Co	59	0.263	ug/L	0.009	3	35	2670	3
[>	Ge	72		ug/L			322645	252782	0
[	Ni	60	1.992	ug/L	0.075	3	77	4002	3
[	Ni	62	26.574	ug/L	3.952	14	47	7996	14
[	Cu	63	9.300	ug/L	0.264	2	215	42871	2
[	Cu	65	5.110	ug/L	0.039	0	103	11445	0
[	Zn	66	25.688	ug/L	0.120	0	184	39170	0
[	Zn	67	23.360	ug/L	0.535	2	117	6005	2
[	Zn	68	25.231	ug/L	0.213	0	4744	31072	0
[	As-1	75	2.162	ug/L	0.120	5	309	3342	4
[	As	75	2.217	ug/L	0.083	3	7188	8807	0
[	Se	82	2.252	ug/L	0.290	12	-2	289	13
[	Se	78	3.668	ug/L	0.096	2	7264	6892	0
[	Mo	98	1.111	ug/L	0.004	0	35	5407	0
	Y	89		ug/L			258568	222933	0
	Kr	83		ug/L			164	280	5
[>	In	115		ug/L			342647	276345	0
[	Ag	107	V 0.051	ug/L	0.006	11	102	542	9
[	Cd	111	-0.110	ug/L	0.024	22	148	-120	43
[	Cd	114	0.295	ug/L	0.001	0	23	1553	0
[	Sb	121	0.928	ug/L	0.017	1	158	7738	0
[	Sb	123	0.929	ug/L	0.019	1	125	5881	2
[	Ba	135	9.097	ug/L	0.003	0	23	16004	0
[	Ba	137	9.306	ug/L	0.049	0	28	27599	0
[>	Tb	159		ug/L			358639	295803	0
[	Tl	205	V 0.004	ug/L	0.001	27	146	194	11
[	Pb	208	2.263	ug/L	0.021	0	641	61418	1
[	Bi	209		ug/L			288543	221017	1
[	Th	232	0.032	ug/L	0.001	2	343	1258	2
[	U	238	0.177	ug/L	0.003	1	65	5792	2

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ17 ADUP REN
Sample Dil Factor: 5
Comments:
Sample Date/Time: Monday, March 29, 2010 21:03:55
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

rerun As

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			346137	312391	0
[	Be	9	V 0.013	ug/L	0.003	24	7	11	11
	C	13		mg/L			5980	5651	0
	Cl	37		mg/L			3044792	10894837	0
[>	Sc	45		ug/L			227993	187527	0
[	V-1	51	1.065	ug/L	0.039	3	1256	10066	3
[	V	51	9.056	ug/L	0.160	1	3318	80969	1
[	Cr	52	1.547	ug/L	0.034	2	4241	15136	1
[	Cr	53	26.038	ug/L	0.628	2	1138	24384	2
[	Mn	55	25.268	ug/L	0.145	0	336	312516	0
[	Co	59	0.261	ug/L	0.004	1	35	2581	1
[>	Ge	72		ug/L			322645	246941	0
[	Ni	60	1.909	ug/L	0.049	2	77	3748	2
[	Ni	62	34.215	ug/L	2.776	8	47	10047	7
[	Cu	63	9.286	ug/L	0.230	2	215	41817	2
[	Cu	65	4.912	ug/L	0.071	1	103	10750	1
[	Zn	66	24.631	ug/L	0.178	0	184	36696	0
[	Zn	67	22.548	ug/L	0.421	1	117	5666	1
[	Zn	68	24.378	ug/L	0.321	1	4744	29451	1
[	As-1	75	2.133	ug/L	0.109	5	309	3225	4
[	As	75	2.299	ug/L	0.114	4	7188	8718	1
[	Se	82	1.868	ug/L	0.075	4	-2	234	4
[	Se	78	3.942	ug/L	0.052	1	7264	6821	0
[	Mo	98	1.082	ug/L	0.005	0	35	5143	0
	Y	89		ug/L			258568	217677	0
	Kr	83		ug/L			164	296	3
[>	In	115		ug/L			342647	269868	1
[	Ag	107	U 0.049	ug/L	0.004	7	102	518	6
[	Cd	111	-0.233	ug/L	0.067	28	148	-383	36
[	Cd	114	0.280	ug/L	0.008	2	23	1439	1
[	Sb	121	0.873	ug/L	0.014	1	158	7120	0
[	Sb	123	0.874	ug/L	0.003	0	125	5411	0
[	Ba	135	8.873	ug/L	0.117	1	23	15245	1
[	Ba	137	8.943	ug/L	0.070	0	28	25902	0
[>	Tb	159		ug/L			358639	289423	1
[	Tl	205	U 0.003	ug/L	0.000	5	146	179	2
[	Pb	208	2.203	ug/L	0.030	1	641	58506	0
[	Bi	209		ug/L			288543	214992	0
[	Th	232	0.029	ug/L	0.001	3	343	1161	3
[	U	238	0.172	ug/L	0.002	1	65	5506	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ17 ASPK REN
Sample Dil Factor: 5
Comments:
Sample Date/Time: Monday, March 29, 2010 21:10:40
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

REN
AS

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			346137	311670	1
[	Be	9	10.116	ug/L	0.192	1	7	3912	1
	C	13		mg/L			5980	6356	0
	Cl	37		mg/L			3044792	8241473	0
[>	Sc	45		ug/L			227993	187008	1
|	V-1	51	11.508	ug/L	0.158	1	1256	98386	0
|	V	51	17.179	ug/L	0.217	1	3318	150714	0
|	Cr	52	11.364	ug/L	0.156	1	4241	88815	0
|	Cr	53	28.773	ug/L	0.336	1	1138	26770	0
|	Mn	55	35.951	ug/L	0.203	0	336	443274	1
[	Co	59	9.833	ug/L	0.083	0	35	95797	0
[>	Ge	72		ug/L			322645	244854	0
|	Ni	60	11.931	ug/L	0.146	1	77	22925	1
|	Ni	62	52.958	ug/L	5.530	10	47	15403	10
|	Cu	63	20.240	ug/L	0.049	0	215	90184	0
|	Cu	65	15.082	ug/L	0.177	1	103	32568	1
|	Zn	66	56.290	ug/L	0.703	1	184	82973	1
|	Zn	67	51.841	ug/L	0.576	1	117	12801	0
|	Zn	68	54.897	ug/L	0.575	1	4744	61252	0
|	As-1	75	12.741	ug/L	0.064	0	309	17930	0
|	As	75	12.793	ug/L	0.043	0	7188	23202	0
|	Se	82	34.296	ug/L	0.448	1	-2	4300	1
|	Se	78	35.704	ug/L	0.295	0	7264	16837	0
[	Mo	98	12.457	ug/L	0.066	0	35	58431	0
	Y	89		ug/L			258568	215045	0
	Kr	83		ug/L			164	261	5
[>	In	115		ug/L			342647	267085	1
|	Ag	107	9.726	ug/L	0.133	1	102	85596	2
|	Cd	111	9.884	ug/L	0.109	1	148	21138	2
|	Cd	114	10.305	ug/L	0.049	0	23	51815	1
|	Sb	121	11.382	ug/L	0.042	0	158	90367	0
|	Sb	123	11.213	ug/L	0.087	0	125	67522	0
|	Ba	135	19.895	ug/L	0.113	0	23	33808	1
[	Ba	137	19.874	ug/L	0.181	0	28	56941	1
[>	Tb	159		ug/L			358639	286499	0
|	Tl	205	10.046	ug/L	0.103	1	146	197768	0
|	Pb	208	12.784	ug/L	0.055	0	641	333707	0
|	Bi	209		ug/L			288543	212921	0
|	Th	232	11.097	ug/L	0.060	0	343	331116	1
[	U	238	11.331	ug/L	0.059	0	65	354956	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ17 APOST REN 222222
Sample Dil Factor: 5 BLW 3.30
Comments:
Sample Date/Time: Monday, March 29, 2010 21:17:25
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			346137	295837	1
[	Be	9	24.507	ug/L	0.104	0	7	8988	1
	C	13		mg/L			5980	5890	1
	Cl	37		mg/L			3044792	10509066	0
[>	Sc	45		ug/L			227993	172574	1
[	V-1	51	25.759	ug/L	0.517	2	1256	202094	2
[	V	51	34.143	ug/L	0.356	1	3318	273978	1
[	Cr	52	25.422	ug/L	0.434	1	4241	179402	2
[	Cr	53	51.164	ug/L	0.433	0	1138	43260	0
[	Mn	55	49.261	ug/L	1.079	2	336	560427	2
[	Co	59	23.409	ug/L	0.308	1	35	210438	1
[>	Ge	72		ug/L			322645	227908	1
[	Ni	60	26.056	ug/L	0.231	0	77	46537	1
[	Ni	62	72.620	ug/L	5.042	6	47	19634	5
[	Cu	63	34.834	ug/L	0.432	1	215	144360	1
[	Cu	65	29.045	ug/L	0.401	1	103	58310	2
[	Zn	66	97.624	ug/L	0.218	0	184	133850	1
[	Zn	67	90.416	ug/L	0.243	0	117	20721	1
[	Zn	68	95.765	ug/L	0.793	0	4744	96962	1
[	As-1	75	27.651	ug/L	0.199	0	309	35968	2
[	As	75	27.586	ug/L	0.154	0	7188	40700	2
[	Se	82	79.622	ug/L	0.659	0	-2	9295	2
[	Se	78	81.211	ug/L	0.370	0	7264	29107	1
[	Mo	98	28.518	ug/L	0.448	1	35	124491	2
	Y	89		ug/L			258568	201894	1
	Kr	83		ug/L			164	309	5
[>	In	115		ug/L			342647	249343	1
[	Ag	107	23.202	ug/L	0.189	0	102	190498	1
[	Cd	111	24.037	ug/L	0.324	1	148	47835	1
[	Cd	114	24.296	ug/L	0.393	1	23	114031	2
[	Sb	121	26.849	ug/L	0.281	1	158	198853	1
[	Sb	123	26.433	ug/L	0.038	0	125	148488	1
[	Ba	135	34.546	ug/L	0.409	1	23	54787	0
[	Ba	137	35.124	ug/L	0.341	0	28	93938	2
[>	Tb	159		ug/L			358639	268772	2
[	Tl	205	24.392	ug/L	0.242	0	146	450288	1
[	Pb	208	27.552	ug/L	0.351	1	641	674076	1
[	Bi	209		ug/L			288543	199281	1
[	Th	232	26.862	ug/L	0.228	0	343	751482	1
[	U	238	26.945	ug/L	0.434	1	65	791672	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ17 B REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, March 29, 2010 21:24:11
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

rem AS

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			346137	306229	1
[	Be	9	U 0.087	ug/L	0.011	12	7	39	9
	C	13		mg/L			5980	8797	1
	Cl	37		mg/L			3044792	5801526	1
[>	Sc	45		ug/L			227993	192049	1
[	V-1	51	2.657	ug/L	0.033	1	1256	24149	2
[	V	51	7.791	ug/L	0.115	1	3318	71719	0
[	Cr	52	0.795	ug/L	0.012	1	4241	9706	0
[	Cr	53	16.649	ug/L	0.427	2	1138	16309	0
[	Mn	55	3.880	ug/L	0.052	1	336	49388	2
[	Co	59	0.292	ug/L	0.011	3	35	2948	2
[>	Ge	72		ug/L			322645	221503	1
[	Ni	60	3.442	ug/L	0.037	1	77	6021	1
[	Ni	62	40.138	ug/L	2.618	6	47	10563	5
[	Cu	63	5.777	ug/L	0.067	1	215	23391	1
[	Cu	65	3.155	ug/L	0.042	1	103	6219	0
[	Zn	66	4.903	ug/L	0.057	1	184	6652	0
[	Zn	67	6.393	ug/L	0.074	1	117	1499	2
[	Zn	68	5.947	ug/L	0.182	3	4744	8906	2
[	As-1	75	0.878	ug/L	0.067	7	309	1315	5
[	As	75	1.502	ug/L	0.064	4	7188	6818	0
[	Se	82	1.527	ug/L	0.072	4	-2	171	3
[	Se	78	5.211	ug/L	0.085	1	7264	6482	0
[	Mo	98	1.581	ug/L	0.017	1	35	6730	0
	Y	89		ug/L			258568	199354	1
	Kr	83		ug/L			164	221	2
[>	In	115		ug/L			342647	241165	1
[	Ag	107	U 0.021	ug/L	0.004	17	102	235	10
[	Cd	111	0.362	ug/L	0.094	25	148	799	22
[	Cd	114	0.556	ug/L	0.021	3	23	2538	3
[	Sb	121	0.436	ug/L	0.012	2	158	3231	2
[	Sb	123	0.417	ug/L	0.011	2	125	2353	2
[	Ba	135	42.203	ug/L	0.406	0	23	64736	1
[	Ba	137	42.312	ug/L	0.486	1	28	109439	1
[>	Tb	159		ug/L			358639	270101	1
[	Tl	205	U 0.036	ug/L	0.006	15	146	780	14
[	Pb	208	0.393	ug/L	0.008	2	641	10151	3
[	Bi	209	U	ug/L			288543	206239	1
[	Th	232	0.340	ug/L	0.005	1	343	9827	2
[	U	238	0.122	ug/L	0.009	7	65	3665	8

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV7
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, March 29, 2010 21:30:59
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			346137	323195	1
[	Be	9	48.085	ug/L	0.910	1	7	19256	0
	C	13		mg/L			5980	4521	1
	Cl	37		mg/L			3044792	2800694	0
[>	Sc	45		ug/L			227993	174273	1
[	V-1	51	48.275	ug/L	0.185	0	1256	381609	1
[	V	51	49.697	ug/L	0.201	0	3318	401548	0
[	Cr	52	48.320	ug/L	0.422	0	4241	341421	1
[	Cr	53	52.682	ug/L	0.455	0	1138	44957	0
[	Mn	55	48.894	ug/L	0.303	0	336	561711	0
[	Co	59	46.899	ug/L	0.440	0	35	425706	0
[>	Ge	72		ug/L			322645	238691	0
[	Ni	60	48.586	ug/L	0.560	1	77	90837	1
[	Ni	62	63.284	ug/L	0.990	1	47	17934	1
[	Cu	63	49.672	ug/L	0.479	0	215	215529	1
[	Cu	65	49.106	ug/L	0.148	0	103	103196	0
[	Zn	66	49.499	ug/L	0.083	0	184	71144	0
[	Zn	67	49.004	ug/L	0.528	1	117	11801	1
[	Zn	68	49.374	ug/L	0.341	0	4744	54057	0
[	As-1	75	48.997	ug/L	0.503	1	309	66566	0
[	As	75	49.454	ug/L	0.615	1	7188	72197	1
[	Se	82	51.521	ug/L	0.301	0	-2	6298	0
[	Se	78	53.958	ug/L	0.535	0	7264	22057	0
[	Mo	98	50.753	ug/L	0.139	0	35	231996	0
	Y	89		ug/L			258568	195180	0
	Kr	83		ug/L			164	178	3
[>	In	115		ug/L			342647	258730	0
[	Ag	107	51.091	ug/L	0.292	0	102	435200	0
[	Cd	111	50.442	ug/L	0.487	0	148	104041	1
[	Cd	114	50.336	ug/L	0.487	0	23	245112	1
[	Sb	121	51.076	ug/L	0.324	0	158	392442	1
[	Sb	123	51.225	ug/L	0.301	0	125	298500	1
[	Ba	135	50.980	ug/L	0.572	1	23	83896	1
[	Ba	137	51.170	ug/L	0.314	0	28	141989	1
[>	Tb	159		ug/L			358639	278937	0
[	Tl	205	52.120	ug/L	0.442	0	146	998514	0
[	Pb	208	52.816	ug/L	0.229	0	641	1340764	0
[	Bi	209		ug/L			288543	228315	0
[	Th	232	52.590	ug/L	0.561	1	343	1526663	0
[	U	238	53.019	ug/L	0.542	1	65	1616847	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB7
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, March 29, 2010 21:38:27
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			346137	300554	0
[	Be	9	0.005	ug/L	0.007	145	7	7	32
	C	13		mg/L			5980	5026	1
	Cl	37		mg/L			3044792	2909334	0
[>	Sc	45		ug/L			227993	177103	0
[	V-1	51	-0.038	ug/L	0.045	118	1256	670	54
[	V	51	1.190	ug/L	0.031	2	3318	12285	1
[	Cr	52	0.049	ug/L	0.015	30	4241	3640	3
[	Cr	53	3.812	ug/L	0.210	5	1138	4125	3
[	Mn	55	0.060	ug/L	0.004	5	336	956	3
[	Co	59	0.001	ug/L	0.001	99	35	34	20
[>	Ge	72		ug/L			322645	247893	0
[	Ni	60	-0.001	ug/L	0.002	328	77	58	6
[	Ni	62	9.633	ug/L	0.513	5	47	2866	5
[	Cu	63	0.321	ug/L	0.019	5	215	1609	5
[	Cu	65	0.025	ug/L	0.005	21	103	135	8
[	Zn	66	0.056	ug/L	0.015	26	184	224	9
[	Zn	67	0.711	ug/L	0.043	6	117	266	3
[	Zn	68	0.784	ug/L	0.073	9	4744	4478	1
[	As-1	75	0.081	ug/L	0.017	20	309	351	6
[	As	75	0.929	ug/L	0.016	1	7188	6827	0
[	Se	82	-0.019	ug/L	0.126	664	-2	-4	376
[	Se	78	4.074	ug/L	0.086	2	7264	6889	0
[	Mo	98	0.005	ug/L	0.001	22	35	49	10
	Y	89		ug/L			258568	198199	0
	Kr	83		ug/L			164	176	5
[>	In	115		ug/L			342647	269790	0
[	Ag	107	-0.002	ug/L	0.001	29	102	60	9
[	Cd	111	-0.003	ug/L	0.002	47	148	110	2
[	Cd	114	0.002	ug/L	0.001	51	23	26	14
[	Sb	121	0.033	ug/L	0.009	27	158	385	17
[	Sb	123	0.035	ug/L	0.010	28	125	312	19
[	Ba	135	0.010	ug/L	0.001	15	23	35	7
[	Ba	137	0.011	ug/L	0.002	17	28	54	10
[>	Tb	159		ug/L			358639	277744	0
[	Tl	205	0.022	ug/L	0.005	22	146	532	17
[	Pb	208	0.035	ug/L	0.003	8	641	1386	6
[	Bi	209		ug/L			288543	228984	0
[	Th	232	0.005	ug/L	0.002	36	343	414	13
[	U	238	0.001	ug/L	0.000	51	65	77	18

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ17 K-L REN
Sample Dil Factor: 25
Comments:
Sample Date/Time: Monday, March 29, 2010 21:45:54
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			346137	296445	1
[	Be	9	0.003	ug/L	0.005	182	7	7	26
	C	13		mg/L			5980	4928	2
	Cl	37		mg/L			3044792	4431162	1
[>	Sc	45		ug/L			227993	174013	2
[	V-1	51	-0.020	ug/L	0.054	272	1256	797	50
[	V	51	2.107	ug/L	0.030	1	3318	19417	0
[	Cr	52	0.312	ug/L	0.017	5	4241	5414	1
[	Cr	53	6.817	ug/L	0.063	0	1138	6566	3
[	Mn	55	0.164	ug/L	0.006	3	336	2136	5
[	Co	59	0.026	ug/L	0.002	8	35	261	9
[>	Ge	72		ug/L			322645	239312	3
[	Ni	60	0.258	ug/L	0.008	3	77	540	3
[	Ni	62	11.895	ug/L	0.463	3	47	3406	3
[	Cu	63	1.318	ug/L	0.026	1	215	5887	1
[	Cu	65	0.350	ug/L	0.016	4	103	814	5
[	Zn	66	3.754	ug/L	0.034	0	184	5537	4
[	Zn	67	3.939	ug/L	0.083	2	117	1031	4
[	Zn	68	4.409	ug/L	0.039	0	4744	8045	3
[	As-1	75	0.213	ug/L	0.010	4	309	518	0
[	As	75	1.141	ug/L	0.090	7	7188	6876	1
[	Se	82	0.095	ug/L	0.032	33	-2	9	39
[	Se	78	4.662	ug/L	0.397	8	7264	6830	1
[	Mo	98	0.196	ug/L	0.006	2	35	926	4
	Y	89		ug/L			258568	192991	3
	Kr	83		ug/L			164	185	3
[>	In	115		ug/L			342647	256650	4
[	Ag	107	-0.002	ug/L	0.001	40	102	63	8
[	Cd	111	-0.035	ug/L	0.023	67	148	41	118
[	Cd	114	0.052	ug/L	0.005	10	23	266	6
[	Sb	121	0.187	ug/L	0.004	2	158	1544	5
[	Sb	123	0.184	ug/L	0.011	5	125	1157	8
[	Ba	135	1.572	ug/L	0.096	6	23	2578	2
[	Ba	137	1.547	ug/L	0.018	1	28	4278	4
[>	Tb	159		ug/L			358639	270046	3
[	Tl	205	0.009	ug/L	0.001	13	146	280	11
[	Pb	208	0.124	ug/L	0.006	4	641	3535	0
[	Bi	209		ug/L			288543	211363	2
[	Th	232	-0.003	ug/L	0.000	17	343	179	9
[	U	238	0.028	ug/L	0.001	2	65	868	2

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ17 K REN
Sample Dil Factor: 5
Comments:
Sample Date/Time: Monday, March 29, 2010 21:52:41
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			346137	282664	1
[	Be	9	U 0.011	ug/L	0.013	115	7	9	45
	C	13		mg/L			5980	5424	2
	Cl	37		mg/L			3044792	10395303	1
[>	Sc	45		ug/L			227993	165395	1
[	V-1	51	0.024	ug/L	0.044	184	1256	1087	29
[	V	51	5.060	ug/L	0.221	4	3318	40977	5
[	Cr	52	0.773	ug/L	0.035	4	4241	8210	4
[	Cr	53	16.183	ug/L	0.713	4	1138	13684	5
[	Mn	55	0.269	ug/L	0.003	1	336	3178	0
[	Co	59	0.044	ug/L	0.005	10	35	401	10
[>	Ge	72		ug/L			322645	221607	1
[	Ni	60	1.412	ug/L	0.043	3	77	2503	3
[	Ni	62	32.132	ug/L	4.050	12	47	8477	13
[	Cu	63	5.920	ug/L	0.171	2	215	23984	4
[	Cu	65	1.564	ug/L	0.021	1	103	3121	1
[	Zn	66	16.107	ug/L	0.104	0	184	21577	0
[	Zn	67	15.287	ug/L	0.387	2	117	3473	3
[	Zn	68	16.490	ug/L	0.187	1	4744	18933	2
[	As-1	75	0.963	ug/L	0.095	9	309	1423	9
[	As	75	1.814	ug/L	0.050	2	7188	7215	2
[	Se	82	0.662	ug/L	0.129	19	-2	73	19
[	Se	78	5.789	ug/L	0.206	3	7264	6651	0
[	Mo	98	1.065	ug/L	0.010	0	35	4545	0
	Y	89		ug/L			258568	187026	0
	Kr	83		ug/L			164	273	5
[>	In	115		ug/L			342647	240531	0
[	Ag	107	U 0.009	ug/L	0.002	24	102	140	11
[	Cd	111	-0.136	ug/L	0.071	52	148	-156	86
[	Cd	114	0.243	ug/L	0.005	1	23	1118	2
[	Sb	121	0.914	ug/L	0.000	0	158	6637	0
[	Sb	123	0.908	ug/L	0.009	0	125	5003	1
[	Ba	135	7.617	ug/L	0.063	0	23	11667	1
[	Ba	137	7.642	ug/L	0.056	0	28	19732	1
[>	Tb	159	U	ug/L			358639	256734	1
[	Tl	205	U 0.005	ug/L	0.001	22	146	184	9
[	Pb	208	U 0.116	ug/L	0.005	4	641	3171	4
[	Bi	209		ug/L			288543	193340	1
[	Th	232	-0.001	ug/L	0.002	163	343	221	18
[	U	238	0.138	ug/L	0.002	1	65	3916	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ17 KDUP REN
Sample Dil Factor: 5
Comments:
Sample Date/Time: Monday, March 29, 2010 21:59:29
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			346137	282798	0
[	Be	9	U 0.000	ug/L	0.004	3149	7	5	24
	C	13		mg/L			5980	5867	0
	Cl	37		mg/L			3044792	10137787	1
[>	Sc	45		ug/L			227993	163604	2
[	V-1	51	0.064	ug/L	0.088	138	1256	1379	48
[	V	51	5.379	ug/L	0.102	1	3318	42920	2
[	Cr	52	0.834	ug/L	0.017	2	4241	8525	2
[	Cr	53	17.098	ug/L	0.570	3	1138	14248	3
[	Mn	55	0.247	ug/L	0.002	0	336	2900	2
[	Co	59	0.077	ug/L	0.003	4	35	680	3
[>	Ge	72		ug/L			322645	219487	1
[	Ni	60	1.473	ug/L	0.011	0	77	2583	1
[	Ni	62	51.943	ug/L	5.578	10	47	13535	10
[	Cu	63	7.062	ug/L	0.331	4	215	28294	3
[	Cu	65	1.601	ug/L	0.034	2	103	3161	0
[	Zn	66	16.803	ug/L	0.143	0	184	22292	2
[	Zn	67	16.300	ug/L	0.444	2	117	3662	2
[	Zn	68	16.970	ug/L	0.134	0	4744	19203	2
[	As-1	75	0.882	ug/L	0.101	11	309	1307	8
[	As	75	1.806	ug/L	0.143	7	7188	7134	1
[	Se	82	0.305	ug/L	0.030	9	-2	32	8
[	Se	78	5.952	ug/L	0.267	4	7264	6633	1
[	Mo	98	1.107	ug/L	0.017	1	35	4676	0
	Y	89		ug/L			258568	187651	1
	Kr	83		ug/L			164	293	2
[>	In	115		ug/L			342647	238710	1
[	Ag	107	U 0.006	ug/L	0.001	15	102	118	5
[	Cd	111	-0.097	ug/L	0.079	81	148	-80	184
[	Cd	114	0.255	ug/L	0.002	0	23	1161	2
[	Sb	121	0.946	ug/L	0.016	1	158	6818	2
[	Sb	123	0.934	ug/L	0.025	2	125	5107	1
[	Ba	135	7.987	ug/L	0.142	1	23	12140	2
[	Ba	137	8.011	ug/L	0.081	1	28	20526	2
[>	Tb	159		ug/L			358639	256202	1
[	Tl	205	U 0.003	ug/L	0.001	48	146	154	15
[	Pb	208	J 0.113	ug/L	0.003	2	641	3081	2
[	Bi	209		ug/L			288543	190969	0
[	Th	232	-0.003	ug/L	0.000	3	343	171	2
[	U	238	0.146	ug/L	0.002	1	65	4148	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ17 KSPK REN
Sample Dil Factor: 5
Comments:
Sample Date/Time: Monday, March 29, 2010 22:07:18
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
⌈>	Li	6		ug/L			346137	286967	1
⌊	Be	9	9.922	ug/L	0.132	1	7	3532	1
	C	13		mg/L			5980	5416	1
	Cl	37		mg/L			3044792	10210753	1
⌈>	Sc	45		ug/L			227993	168244	1
|	V-1	51	10.042	ug/L	0.171	1	1256	77362	2
|	V	51	15.462	ug/L	0.272	1	3318	122282	1
|	Cr	52	10.643	ug/L	0.092	0	4241	75036	1
|	Cr	53	27.240	ug/L	0.484	1	1138	22844	0
|	Mn	55	10.034	ug/L	0.079	0	336	111491	2
⌊	Co	59	9.450	ug/L	0.034	0	35	82834	1
⌈>	Ge	72		ug/L			322645	221994	1
|	Ni	60	11.375	ug/L	0.141	1	77	19820	2
|	Ni	62	69.603	ug/L	7.079	10	47	18330	9
|	Cu	63	17.164	ug/L	0.183	1	215	69358	1
|	Cu	65	11.461	ug/L	0.154	1	103	22456	2
|	Zn	66	45.918	ug/L	0.319	0	184	61386	1
|	Zn	67	43.399	ug/L	0.230	0	117	9729	2
|	Zn	68	45.577	ug/L	0.249	0	4744	46660	1
|	As-1	75	11.167	ug/L	0.198	1	309	14272	0
|	As	75	11.923	ug/L	0.300	2	7188	19937	0
|	Se	82	31.555	ug/L	0.186	0	-2	3586	1
|	Se	78	36.640	ug/L	0.694	1	7264	15532	0
⌊	Mo	98	12.186	ug/L	0.088	0	35	51823	1
	Y	89		ug/L			258568	189198	2
	Kr	83		ug/L			164	307	4
⌈>	In	115		ug/L			342647	242132	2
|	Ag	107	9.492	ug/L	0.093	0	102	75732	2
|	Cd	111	9.720	ug/L	0.090	0	148	18847	2
|	Cd	114	10.082	ug/L	0.193	1	23	45952	2
|	Sb	121	11.583	ug/L	0.158	1	158	83355	0
|	Sb	123	11.552	ug/L	0.169	1	125	63051	0
|	Ba	135	17.938	ug/L	0.329	1	23	27630	1
⌊	Ba	137	18.001	ug/L	0.054	0	28	46757	1
⌈>	Tb	159		ug/L			358639	261534	1
|	Tl	205	10.020	ug/L	0.035	0	146	180081	1
|	Pb	208	10.460	ug/L	0.066	0	641	249357	1
|	Bi	209		ug/L			288543	195185	2
|	Th	232	10.972	ug/L	0.097	0	343	298887	2
⌊	U	238	11.103	ug/L	0.134	1	65	317552	2

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ17 KPOST REN
Sample Dil Factor: 5
Comments:
Sample Date/Time: Monday, March 29, 2010 22:15:07
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			346137	274300	1
[	Be	9	24.801	ug/L	0.101	0	7	8433	1
	C	13		mg/L			5980	5664	1
	Cl	37		mg/L			3044792	10132099	1
[>	Sc	45		ug/L			227993	160624	1
[	V-1	51	24.727	ug/L	0.201	0	1256	180602	2
[	V	51	30.836	ug/L	0.289	0	3318	230545	2
[	Cr	52	25.227	ug/L	0.099	0	4241	165718	1
[	Cr	53	43.944	ug/L	0.521	1	1138	34697	2
[	Mn	55	24.472	ug/L	0.264	1	336	259225	0
[	Co	59	23.425	ug/L	0.053	0	35	195998	1
[>	Ge	72		ug/L			322645	214014	0
[	Ni	60	25.462	ug/L	0.161	0	77	42706	1
[	Ni	62	89.756	ug/L	7.893	8	47	22796	9
[	Cu	63	31.993	ug/L	0.382	1	215	124521	1
[	Cu	65	25.797	ug/L	0.210	0	103	48643	1
[	Zn	66	90.126	ug/L	0.672	0	184	116047	1
[	Zn	67	83.746	ug/L	1.384	1	117	18029	2
[	Zn	68	87.837	ug/L	0.671	0	4744	83775	1
[	As-1	75	26.372	ug/L	0.227	0	309	32219	1
[	As	75	26.927	ug/L	0.112	0	7188	37418	0
[	Se	82	77.532	ug/L	1.443	1	-2	8498	2
[	Se	78	81.984	ug/L	0.159	0	7264	27546	1
[	Mo	98	27.951	ug/L	0.309	1	35	114574	2
	Y	89		ug/L			258568	182459	1
	Kr	83		ug/L			164	308	4
[>	In	115		ug/L			342647	232252	1
[	Ag	107	23.254	ug/L	0.506	2	102	177843	2
[	Cd	111	23.887	ug/L	0.365	1	148	44275	1
[	Cd	114	24.165	ug/L	0.337	1	23	105623	1
[	Sb	121	26.963	ug/L	0.250	0	158	186001	1
[	Sb	123	26.844	ug/L	0.393	1	125	140435	1
[	Ba	135	33.597	ug/L	0.445	1	23	49632	1
[	Ba	137	33.895	ug/L	0.419	1	28	84430	2
[>	Tb	159		ug/L			358639	248353	1
[	Tl	205	24.792	ug/L	0.168	0	146	422971	1
[	Pb	208	25.593	ug/L	0.095	0	641	578709	1
[	Bi	209		ug/L			288543	186489	1
[	Th	232	26.932	ug/L	0.046	0	343	696285	1
[	U	238	27.229	ug/L	0.389	1	65	739386	2

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ17 C REN
Sample Dil Factor: 10
Comments:
Sample Date/Time: Monday, March 29, 2010 22:21:56
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

Ren AS

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			346137	278691	1
[	Be	9	V 0.015	ug/L	0.022	148	7	10	69
	C	13		mg/L			5980	6110	1
	Cl	37		mg/L			3044792	11416489	1
[>	Sc	45		ug/L			227993	173450	1
[	V-1	51	0.015	ug/L	0.048	323	1256	1076	36
[	V	51	6.673	ug/L	0.088	1	3318	55842	1
[	Cr	52	0.633	ug/L	0.030	4	4241	7637	1
[	Cr	53	21.025	ug/L	0.386	1	1138	18377	1
[	Mn	55	116.364	ug/L	0.682	0	336	1330175	1
[	Co	59	0.284	ug/L	0.012	4	35	2597	5
[>	Ge	72		ug/L			322645	226374	0
[	Ni	60	0.838	ug/L	0.027	3	77	1539	3
[	Ni	62	73.875	ug/L	8.869	12	47	19843	11
[	Cu	63	7.950	ug/L	0.527	6	215	32833	6
[	Cu	65	V 0.260	ug/L	0.019	7	103	590	6
[	Zn	66	0.714	ug/L	0.065	9	184	1101	8
[	Zn	67	2.752	ug/L	0.043	1	117	706	1
[	Zn	68	2.247	ug/L	0.086	3	4744	5510	1
[	As-1	75	0.605	ug/L	0.098	16	309	994	12
[	As	75	1.284	ug/L	0.114	8	7188	6690	1
[	Se	82	1.050	ug/L	0.183	17	-2	120	18
[	Se	78	6.084	ug/L	0.213	3	7264	6880	0
[	Mo	98	0.013	ug/L	0.002	19	35	81	12
	Y	89		ug/L			258568	195743	0
	Kr	83		ug/L			164	355	2
[>	In	115		ug/L			342647	244658	0
[	Ag	107	V 0.001	ug/L	0.001	92	102	80	8
[	Cd	111	-0.604	ug/L	0.046	7	148	-1069	7
[	Cd	114	0.002	ug/L	0.002	98	23	27	36
[	Sb	121	V 0.020	ug/L	0.004	19	158	259	12
[	Sb	123	0.016	ug/L	0.002	12	125	175	6
[	Ba	135	28.444	ug/L	0.183	0	23	44269	0
[	Ba	137	28.378	ug/L	0.215	0	28	74472	1
[>	Tb	159		ug/L			358639	261560	0
[	Tl	205	V 0.014	ug/L	0.002	13	146	359	9
[	Pb	208	V 0.099	ug/L	0.001	0	641	2835	0
[	Bi	209		ug/L			288543	193205	0
[	Th	232	0.005	ug/L	0.000	3	343	374	1
[	U	238	0.002	ug/L	0.000	13	65	113	7

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ17 D REN
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, March 29, 2010 22:28:46
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

Li only

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
>	Li	6		ug/L			346137	284151	2
	Be	9	0.012	ug/L	0.013	105	7	10	43
	C	13		mg/L			5980	4890	1
	Cl	37		mg/L			3044792	13233619	2
>	Sc	45		ug/L			227993	174009	3
	V-1	51	-0.517	ug/L	0.151	29	1256	-3099	37
	V	51	7.058	ug/L	0.185	2	3318	59105	3
	Cr	52	0.583	ug/L	0.008	1	4241	7313	4
	Cr	53	23.763	ug/L	0.366	1	1138	20719	2
	Mn	55	76.900	ug/L	0.386	0	336	882004	3
	Co	59	0.067	ug/L	0.004	5	35	636	8
>	Ge	72		ug/L			322645	234380	2
	Ni	60	0.870	ug/L	0.056	6	77	1654	8
	Ni	62	84.360	ug/L	9.428	11	47	23456	10
	Cu	63	8.570	ug/L	0.445	5	215	36638	5
	Cu	65	0.441	ug/L	0.012	2	103	984	0
	Zn	66	2.516	ug/L	0.059	2	184	3677	2
	Zn	67	4.268	ug/L	0.144	3	117	1087	4
	Zn	68	3.489	ug/L	0.072	2	4744	6952	1
	As-1	75	0.144	ug/L	0.093	64	309	416	28
	As	75	1.226	ug/L	0.150	12	7188	6848	2
	Se	82	-0.804	ug/L	0.026	3	-2	-98	5
	Se	78	6.139	ug/L	0.370	6	7264	7139	0
	Mo	98	0.034	ug/L	0.002	6	35	177	7
	Y	89		ug/L			258568	202298	3
	Kr	83		ug/L			164	386	3
>	In	115		ug/L			342647	254643	2
	Ag	107	-0.003	ug/L	0.001	43	102	49	21
	Cd	111	-0.511	ug/L	0.163	31	148	-926	35
	Cd	114	0.022	ug/L	0.002	11	23	124	12
	Sb	121	-0.001	ug/L	0.001	161	158	110	8
	Sb	123	-0.001	ug/L	0.001	139	125	90	6
	Ba	135	31.637	ug/L	0.264	0	23	51241	2
	Ba	137	31.698	ug/L	0.364	1	28	86570	2
>	Tb	159		ug/L			358639	268440	3
	Tl	205	0.007	ug/L	0.000	4	146	238	5
	Pb	208	0.091	ug/L	0.004	4	641	2709	0
	Bi	209		ug/L			288543	194239	2
	Th	232	-0.003	ug/L	0.001	23	343	182	13
	U	238	0.004	ug/L	0.000	7	65	155	8

BLD 3.30

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ17 E REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, March 29, 2010 22:35:36
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			346137	288918	6
[	Be	9	U 0.004	ug/L	0.009	211	7	7	44
	C	13		mg/L			5980	6869	2
	Cl	37		mg/L			3044792	13967690	4
[>	Sc	45		ug/L			227993	182541	5
[	V-1	51	0.470	ug/L	0.141	30	1256	4929	29
[	V	51	9.384	ug/L	0.390	4	3318	81648	8
[	Cr	52	5.084	ug/L	0.032	0	4241	40674	5
[	Cr	53	32.178	ug/L	0.937	2	1138	29130	6
[	Mn	55	2.988	ug/L	0.042	1	336	36224	6
[	Co	59	0.104	ug/L	0.007	6	35	1017	6
[>	Ge	72		ug/L			322645	233540	5
[	Ni	60	1.649	ug/L	0.008	0	77	3070	6
[	Ni	62	123.635	ug/L	10.341	8	47	34297	12
[	Cu	63	12.915	ug/L	0.726	5	215	55004	9
[	Cu	65	2.536	ug/L	0.053	2	103	5287	6
[	Zn	66	6.585	ug/L	0.028	0	184	9375	5
[	Zn	67	8.164	ug/L	0.275	3	117	1993	4
[	Zn	68	7.539	ug/L	0.422	5	4744	10969	1
[	As-1	75	2.934	ug/L	0.046	1	309	4111	6
[	As	75	3.506	ug/L	0.257	7	7188	9830	2
[	Se	82	1.118	ug/L	0.078	7	-2	131	1
[	Se	78	6.145	ug/L	1.206	19	7264	7103	0
[	Mo	98	2.274	ug/L	0.009	0	35	10195	5
	Y	89		ug/L			258568	204718	6
	Kr	83		ug/L			164	422	7
[>	In	115		ug/L			342647	256700	5
[	Ag	107	V 0.016	ug/L	0.003	17	102	216	17
[	Cd	111	-0.515	ug/L	0.247	47	148	-958	59
[	Cd	114	0.195	ug/L	0.003	1	23	960	5
[	Sb	121	2.620	ug/L	0.017	0	158	20082	5
[	Sb	123	2.597	ug/L	0.052	2	125	15101	5
[	Ba	135	33.082	ug/L	0.474	1	23	54010	5
[	Ba	137	33.175	ug/L	0.594	1	28	91317	5
[>	Tb	159		ug/L			358639	268827	5
[	Tl	205	U 0.005	ug/L	0.000	10	146	192	4
[	Pb	208	1.113	ug/L	0.011	1	641	27682	4
[	Bi	209		ug/L			288543	197853	6
[	Th	232	0.007	ug/L	0.001	20	343	449	4
[	U	238	0.317	ug/L	0.001	0	65	9359	5

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ17 F REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, March 29, 2010 22:42:27
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

REN AS

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			346137	283922	2
[	Be	9	0.012	ug/L	0.008	63	7	10	25
	C	13	V	mg/L			5980	7102	0
	Cl	37		mg/L			3044792	11881408	1
[>	Sc	45		ug/L			227993	179959	1
[	V-1	51	3.337	ug/L	0.146	4	1256	28165	4
[	V	51	14.178	ug/L	0.061	0	3318	120172	1
[	Cr	52	2.011	ug/L	0.018	0	4241	17886	2
[	Cr	53	35.345	ug/L	0.633	1	1138	31444	2
[	Mn	55	22.965	ug/L	0.106	0	336	272587	1
[	Co	59	0.426	ug/L	0.005	1	35	4018	2
[>	Ge	72		ug/L			322645	228987	1
[	Ni	60	4.251	ug/L	0.101	2	77	7674	2
[	Ni	62	115.110	ug/L	8.454	7	47	31291	8
[	Cu	63	12.313	ug/L	0.294	2	215	51382	3
[	Cu	65	4.037	ug/L	0.030	0	103	8207	1
[	Zn	66	483.591	ug/L	7.079	1	184	665646	2
[	Zn	67	434.615	ug/L	3.331	0	117	99756	1
[	Zn	68	474.531	ug/L	7.120	1	4744	469428	2
[	As-1	75	2.880	ug/L	0.114	3	309	3962	5
[	As	75	3.272	ug/L	0.035	1	7188	9347	1
[	Se	82	2.294	ug/L	0.120	5	-2	267	6
[	Se	78	6.220	ug/L	0.383	6	7264	6999	0
[	Mo	98	2.547	ug/L	0.047	1	35	11194	3
	Y	89		ug/L			258568	204564	1
	Kr	83		ug/L			164	377	2
[>	In	115		ug/L			342647	248488	1
[	Ag	107	V 0.010	ug/L	0.001	9	102	159	3
[	Cd	111	1.578	ug/L	0.056	3	148	3232	5
[	Cd	114	2.064	ug/L	0.051	2	23	9665	0
[	Sb	121	2.069	ug/L	0.042	2	158	15375	2
[	Sb	123	2.086	ug/L	0.059	2	125	11758	2
[	Ba	135	113.016	ug/L	1.422	1	23	178576	1
[	Ba	137	113.788	ug/L	2.269	1	28	303171	1
[>	Tb	159		ug/L			358639	263690	1
[	Tl	205	V 0.013	ug/L	0.002	16	146	342	12
[	Pb	208	2.237	ug/L	0.014	0	641	54142	2
[	Bi	209		ug/L			288543	195999	1
[	Th	232	0.067	ug/L	0.004	5	343	2085	3
[	U	238	0.213	ug/L	0.005	2	65	6184	3

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ17 G REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, March 29, 2010 22:49:15
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass	Conc. Mean		Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6			ug/L			346137	307622	0
[	Be	9	U	0.037	ug/L	0.021	57	7	20	39
	C	13			mg/L			5980	7604	1
	Cl	37			mg/L			3044792	3411313	0
[>	Sc	45			ug/L			227993	242215	1
[	V-1	51		6.207	ug/L	0.010	0	1256	69363	1
[	V	51		8.215	ug/L	0.071	0	3318	95189	0
[	Cr	52		1.382	ug/L	0.017	1	4241	17946	0
[	Cr	53		7.806	ug/L	0.245	3	1138	10286	1
[	Mn	55		406.081	ug/L	1.389	0	336	6481686	1
[	Co	59		0.197	ug/L	0.007	3	35	2517	4
[>	Ge	72			ug/L			322645	267077	2
[	Ni	60		0.529	ug/L	0.049	9	77	1168	6
[	Ni	62		32.505	ug/L	4.569	14	47	10302	11
[	Cu	63		1.993	ug/L	0.156	7	215	9832	5
[	Cu	65	U	0.412	ug/L	0.022	5	103	1052	2
[	Zn	66	U	2.134	ug/L	0.102	4	184	3576	3
[	Zn	67		3.983	ug/L	0.170	4	117	1161	2
[	Zn	68		3.032	ug/L	0.226	7	4744	7395	0
[	As-1	75		16.650	ug/L	0.206	1	309	25474	1
[	As	75		17.289	ug/L	0.276	1	7188	32104	1
[	Se	82		0.247	ug/L	0.005	2	-2	31	3
[	Se	78		3.426	ug/L	0.354	10	7264	7196	1
[	Mo	98		0.806	ug/L	0.006	0	35	4153	3
	Y	89			ug/L			258568	236804	1
	Kr	83			ug/L			164	200	2
[>	In	115			ug/L			342647	288688	1
[	Ag	107	U	0.002	ug/L	0.001	26	102	105	6
[	Cd	111		-0.008	ug/L	0.017	227	148	108	38
[	Cd	114		0.010	ug/L	0.001	12	23	72	9
[	Sb	121	U	0.020	ug/L	0.004	18	158	306	10
[	Sb	123		0.017	ug/L	0.002	9	125	215	6
[	Ba	135		8.528	ug/L	0.094	1	23	15674	1
[	Ba	137		8.492	ug/L	0.136	1	28	26309	1
[>	Tb	159			ug/L			358639	298515	0
[	Tl	205	U	0.013	ug/L	0.000	2	146	383	2
[	Pb	208	U	0.127	ug/L	0.005	3	641	3977	2
[	Bi	209	U		ug/L			288543	234184	0
[	Th	232		0.011	ug/L	0.001	8	343	623	4
[	U	238		0.005	ug/L	0.001	15	65	215	11

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV8
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, March 29, 2010 22:56:01
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			346137	292909	0
[	Be	9	49.350	ug/L	0.239	0	7	17914	1
	C	13		mg/L			5980	4541	1
	Cl	37		mg/L			3044792	3098143	0
[>	Sc	45		ug/L			227993	195567	0
[	V-1	51	48.690	ug/L	0.304	0	1256	431895	0
[	V	51	50.764	ug/L	0.557	1	3318	460204	0
[	Cr	52	48.817	ug/L	0.534	1	4241	387023	0
[	Cr	53	55.174	ug/L	1.130	2	1138	52786	1
[	Mn	55	49.375	ug/L	0.430	0	336	636543	0
[	Co	59	48.229	ug/L	0.928	1	35	491250	1
[>	Ge	72		ug/L			322645	274799	0
[	Ni	60	48.974	ug/L	0.336	0	77	105410	0
[	Ni	62	67.069	ug/L	1.283	1	47	21880	2
[	Cu	63	50.867	ug/L	0.323	0	215	254092	0
[	Cu	65	49.947	ug/L	0.527	1	103	120838	0
[	Zn	66	50.100	ug/L	0.204	0	184	82900	0
[	Zn	67	50.315	ug/L	0.317	0	117	13947	0
[	Zn	68	50.156	ug/L	0.371	0	4744	63156	0
[	As-1	75	48.586	ug/L	0.099	0	309	75998	0
[	As	75	49.369	ug/L	0.052	0	7188	82988	0
[	Se	82	48.943	ug/L	0.107	0	-2	6887	0
[	Se	78	52.733	ug/L	0.286	0	7264	24957	0
[	Mo	98	48.940	ug/L	0.186	0	35	257553	0
	Y	89		ug/L			258568	212485	0
	Kr	83		ug/L			164	196	1
[>	In	115		ug/L			342647	293345	1
[	Ag	107	50.852	ug/L	0.593	1	102	491065	0
[	Cd	111	49.584	ug/L	0.576	1	148	115945	0
[	Cd	114	49.404	ug/L	0.797	1	23	272727	0
[	Sb	121	50.359	ug/L	0.565	1	158	438658	0
[	Sb	123	50.039	ug/L	0.625	1	125	330572	0
[	Ba	135	49.657	ug/L	0.497	1	23	92643	0
[	Ba	137	49.788	ug/L	0.787	1	28	156620	0
[>	Tb	159		ug/L			358639	295262	0
[	Tl	205	50.240	ug/L	0.170	0	146	1018875	0
[	Pb	208	51.670	ug/L	0.210	0	641	1388486	0
[	Bi	209		ug/L			288543	235268	1
[	Th	232	50.252	ug/L	0.514	1	343	1544315	1
[	U	238	50.271	ug/L	0.532	1	65	1622862	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB8
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, March 29, 2010 23:03:33
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			346137	293616	0
[	Be	9	-0.003	ug/L	0.009	330	7	5	66
	C	13		mg/L			5980	5055	3
	Cl	37		mg/L			3044792	3126489	0
[>	Sc	45		ug/L			227993	194592	0
[	V-1	51	-0.037	ug/L	0.009	23	1256	745	10
[	V	51	1.796	ug/L	0.051	2	3318	18930	2
[	Cr	52	0.047	ug/L	0.008	17	4241	3983	1
[	Cr	53	5.665	ug/L	0.178	3	1138	6265	2
[	Mn	55	0.060	ug/L	0.002	4	336	1061	2
[	Co	59	0.002	ug/L	0.001	47	35	47	17
[>	Ge	72		ug/L			322645	274715	0
[	Ni	60	-0.002	ug/L	0.001	58	77	61	5
[	Ni	62	12.402	ug/L	0.493	3	47	4077	4
[	Cu	63	0.436	ug/L	0.023	5	215	2360	5
[	Cu	65	0.032	ug/L	0.007	21	103	165	10
[	Zn	66	0.045	ug/L	0.012	25	184	230	8
[	Zn	67	1.170	ug/L	0.159	13	117	422	10
[	Zn	68	0.976	ug/L	0.013	1	4744	5189	0
[	As-1	75	0.052	ug/L	0.019	37	309	344	9
[	As	75	0.905	ug/L	0.032	3	7188	7530	1
[	Se	82	-0.078	ug/L	0.049	62	-2	-13	53
[	Se	78	4.024	ug/L	0.093	2	7264	7617	0
[	Mo	98	0.005	ug/L	0.002	44	35	55	20
	Y	89		ug/L			258568	214492	0
	Kr	83		ug/L			164	193	4
[>	In	115		ug/L			342647	294296	0
[	Ag	107	-0.003	ug/L	0.001	42	102	56	24
[	Cd	111	-0.006	ug/L	0.005	93	148	114	11
[	Cd	114	0.000	ug/L	0.001	24267	23	20	28
[	Sb	121	0.027	ug/L	0.009	34	158	376	22
[	Sb	123	0.023	ug/L	0.005	23	125	262	14
[	Ba	135	0.009	ug/L	0.004	44	23	37	20
[	Ba	137	0.007	ug/L	0.005	65	28	48	32
[>	Tb	159		ug/L			358639	295025	0
[	Tl	205	0.018	ug/L	0.003	16	146	486	12
[	Pb	208	0.032	ug/L	0.003	10	641	1385	6
[	Bi	209		ug/L			288543	238257	0
[	Th	232	0.004	ug/L	0.002	50	343	420	16
[	U	238	0.001	ug/L	0.000	29	65	83	10

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ17 H REN
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, March 29, 2010 23:10:58
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

U only

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			346137	287327	3
[	Be	9	0.004	ug/L	0.003	63	7	7	16
	C	13		mg/L			5980	5498	0
	Cl	37		mg/L			3044792	12240303	2
[>	Sc	45		ug/L			227993	187123	2
[	V-1	51	0.507	ug/L	0.128	25	1256	5311	18
[	V	51	4.782	ug/L	0.135	2	3318	43965	5
[	Cr	52	0.513	ug/L	0.019	3	4241	7335	4
[	Cr	53	13.629	ug/L	0.635	4	1138	13190	6
[	Mn	55	12.279	ug/L	0.102	0	336	151662	2
[	Co	59	0.163	ug/L	0.007	4	35	1617	6
[>	Ge	72		ug/L			322645	244757	2
[	Ni	60	0.760	ug/L	0.060	7	77	1516	10
[	Ni	62	35.761	ug/L	8.340	23	47	10446	25
[	Cu	63	6.021	ug/L	0.578	9	215	26974	11
[	Cu	65	0.198	ug/L	0.024	12	103	505	11
[	Zn	66	0.624	ug/L	0.024	3	184	1058	4
[	Zn	67	2.720	ug/L	0.004	0	117	755	2
[	Zn	68	2.093	ug/L	0.193	9	4744	5793	1
[	As-1	75	0.510	ug/L	0.034	6	309	943	5
[	As	75	1.081	ug/L	0.130	12	7188	6949	1
[	Se	82	0.725	ug/L	0.141	19	-2	88	17
[	Se	78	4.981	ug/L	0.431	8	7264	7088	0
[	Mo	98	0.005	ug/L	0.003	57	35	48	23
	Y	89		ug/L			258568	208231	3
	Kr	83		ug/L			164	346	8
[>	In	115		ug/L			342647	265248	2
[	Ag	107	0.001	ug/L	0.001	34	102	92	4
[	Cd	111	-0.650	ug/L	0.168	25	148	-1257	28
[	Cd	114	0.002	ug/L	0.002	104	23	26	34
[	Sb	121	0.004	ug/L	0.001	37	158	152	9
[	Sb	123	0.005	ug/L	0.001	9	125	127	2
[	Ba	135	24.611	ug/L	0.012	0	23	41529	2
[	Ba	137	24.983	ug/L	0.079	0	28	71082	2
[>	Tb	159		ug/L			358639	278175	3
[	Tl	205	0.003	ug/L	0.002	47	146	177	14
[	Pb	208	0.122	ug/L	0.002	1	641	3596	2
[	Bi	209		ug/L			288543	203200	2
[	Th	232	-0.003	ug/L	0.001	15	343	166	7
[	U	238	0.004	ug/L	0.001	14	65	174	8

Be 3.30

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ17 I REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, March 29, 2010 23:17:43
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

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	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			346137	305388	0
L	Be	9	U 0.061	ug/L	0.020	32	7	29	26
	C	13		mg/L			5980	9411	0
	Cl	37		mg/L			3044792	3895464	0
[>	Sc	45		ug/L			227993	216781	1
|	V-1	51	2.494	ug/L	0.048	1	1256	25658	1
|	V	51	4.833	ug/L	0.065	1	3318	51423	0
|	Cr	52	0.629	ug/L	0.037	5	4241	9503	2
|	Cr	53	7.907	ug/L	0.093	1	1138	9313	0
|	Mn	55	2.776	ug/L	0.046	1	336	39962	0
L	Co	59	0.210	ug/L	0.010	4	35	2403	4
[>	Ge	72		ug/L			322645	254992	0
|	Ni	60	2.968	ug/L	0.064	2	77	5985	1
|	Ni	62	51.022	ug/L	4.645	9	47	15458	9
|	Cu	63	5.907	ug/L	0.174	2	215	27533	3
|	Cu	65	2.811	ug/L	0.063	2	103	6389	2
|	Zn	66	4.645	ug/L	0.050	1	184	7264	1
|	Zn	67	6.475	ug/L	0.281	4	117	1746	4
|	Zn	68	5.972	ug/L	0.093	1	4744	10281	1
|	As-1	75	0.733	ug/L	0.046	6	309	1304	4
|	As	75	1.194	ug/L	0.101	8	7188	7405	1
|	Se	82	1.374	ug/L	0.155	11	-2	177	11
|	Se	78	3.985	ug/L	0.321	8	7264	7057	1
L	Mo	98	1.392	ug/L	0.024	1	35	6824	1
	Y	89		ug/L			258568	219023	0
	Kr	83		ug/L			164	207	3
[>	In	115	U	ug/L			342647	276959	0
|	Ag	107	0.006	ug/L	0.001	9	102	137	3
|	Cd	111	0.250	ug/L	0.049	19	148	672	16
|	Cd	114	0.479	ug/L	0.010	2	23	2514	2
|	Sb	121	0.400	ug/L	0.012	3	158	3420	3
|	Sb	123	0.391	ug/L	0.013	3	125	2538	3
|	Ba	135	36.597	ug/L	0.475	1	23	64474	1
L	Ba	137	37.220	ug/L	0.130	0	28	110563	0
[>	Tb	159	U	ug/L			358639	293731	0
|	Tl	205	J 0.017	ug/L	0.001	7	146	463	5
|	Pb	208	J 0.271	ug/L	0.010	3	641	7760	2
|	Bi	209		ug/L			288543	224881	1
|	Th	232	0.187	ug/L	0.006	2	343	6004	2
L	U	238	0.076	ug/L	0.002	2	65	2495	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ17 L REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, March 29, 2010 23:24:28
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

Ren As

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
>	Li	6		ug/L			346137	293918	0
	Be	9	V 0.013	ug/L	0.002	13	7	10	6
	C	13		mg/L			5980	8930	1
	Cl	37		mg/L			3044792	5743729	1
>	Sc	45		ug/L			227993	204632	3
	V-1	51	1.810	ug/L	0.063	3	1256	17879	3
	V	51	6.561	ug/L	0.213	3	3318	64782	0
	Cr	52	0.530	ug/L	0.014	2	4241	8158	2
	Cr	53	15.176	ug/L	0.614	4	1138	15921	1
	Mn	55	0.788	ug/L	0.004	0	336	10932	3
	Co	59	0.096	ug/L	0.002	1	35	1056	2
>	Ge	72		ug/L			322645	243765	2
	Ni	60	2.677	ug/L	0.066	2	77	5166	3
	Ni	62	50.388	ug/L	2.778	5	47	14576	2
	Cu	63	4.958	ug/L	0.068	1	215	22115	3
	Cu	65	2.210	ug/L	0.051	2	103	4816	0
	Zn	66	2.955	ug/L	0.035	1	184	4468	3
	Zn	67	4.829	ug/L	0.212	4	117	1266	2
	Zn	68	4.371	ug/L	0.200	4	4744	8150	0
	As-1	75	0.535	ug/L	0.136	25	309	974	20
	As	75	1.218	ug/L	0.111	9	7188	7111	2
	Se	82	1.039	ug/L	0.180	17	-2	127	17
	Se	78	4.783	ug/L	0.393	8	7264	6996	1
	Mo	98	1.390	ug/L	0.029	2	35	6512	1
	Y	89		ug/L			258568	204988	2
	Kr	83		ug/L			164	219	4
>	In	115		ug/L			342647	264423	3
	Ag	107	U -0.002	ug/L	0.001	34	102	64	4
	Cd	111	0.233	ug/L	0.084	36	148	601	25
	Cd	114	0.460	ug/L	0.004	0	23	2306	3
	Sb	121	0.471	ug/L	0.008	1	158	3820	4
	Sb	123	0.478	ug/L	0.004	0	125	2942	3
	Ba	135	34.251	ug/L	0.196	0	23	57602	3
	Ba	137	34.532	ug/L	0.531	1	28	97904	2
>	Tb	159	U	ug/L			358639	277944	2
	Tl	205	U 0.011	ug/L	0.001	11	146	329	10
	Pb	208	0.091	ug/L	0.002	2	641	2790	1
	Bi	209		ug/L			288543	215659	2
	Th	232	0.006	ug/L	0.000	4	343	444	1
	U	238	0.016	ug/L	0.001	3	65	543	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ17 M REN
Sample Dil Factor: 10
Comments:
Sample Date/Time: Monday, March 29, 2010 23:32:13
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			346137	289384	1
[	Be	9	U 0.005	ug/L	0.011	197	7	7	50
	C	13		mg/L			5980	6734	3
	Cl	37		mg/L			3044792	10809990	2
[>	Sc	45		ug/L			227993	190460	2
[	V-1	51	0.027	ug/L	0.096	348	1256	1299	65
[	V	51	5.208	ug/L	0.221	4	3318	48442	2
[	Cr	52	0.522	ug/L	0.017	3	4241	7538	4
[	Cr	53	16.388	ug/L	0.954	5	1138	15928	3
[	Mn	55	120.065	ug/L	0.717	0	336	1507016	2
[	Co	59	0.288	ug/L	0.004	1	35	2885	4
[>	Ge	72		ug/L			322645	245108	3
[	Ni	60	0.770	ug/L	0.026	3	77	1538	6
[	Ni	62	66.852	ug/L	10.397	15	47	19516	18
[	Cu	63	7.253	ug/L	0.599	8	215	32516	11
[	Cu	65	U 0.224	ug/L	0.018	7	103	561	3
[	Zn	66	0.798	ug/L	0.035	4	184	1313	0
[	Zn	67	2.659	ug/L	0.041	1	117	742	4
[	Zn	68	2.297	ug/L	0.024	1	4744	6018	3
[	As-1	75	0.512	ug/L	0.043	8	309	947	8
[	As	75	1.039	ug/L	0.088	8	7188	6902	2
[	Se	82	0.951	ug/L	0.066	6	-2	117	3
[	Se	78	5.001	ug/L	0.493	9	7264	7103	1
[	Mo	98	0.006	ug/L	0.001	17	35	54	12
	Y	89		ug/L			258568	209753	3
	Kr	83		ug/L			164	343	3
[>	In	115		ug/L			342647	268302	2
[	Ag	107	U -0.003	ug/L	0.001	16	102	54	8
[	Cd	111	-0.727	ug/L	0.118	16	148	-1440	19
[	Cd	114	0.002	ug/L	0.001	57	23	29	22
[	Sb	121	U 0.005	ug/L	0.001	10	158	166	1
[	Sb	123	0.006	ug/L	0.003	56	125	133	13
[	Ba	135	27.712	ug/L	0.146	0	23	47298	2
[	Ba	137	27.922	ug/L	0.233	0	28	80352	2
[>	Tb	159		ug/L			358639	280434	2
[	Tl	205	U 0.001	ug/L	0.001	79	146	130	8
[	Pb	208	U 0.069	ug/L	0.003	5	641	2269	1
[	Bi	209		ug/L			288543	205807	2
[	Th	232	-0.006	ug/L	0.000	1	343	106	0
[	U	238	0.001	ug/L	0.001	45	65	90	21

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ17 N REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, March 29, 2010 23:39:58
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			346137	290784	0
[	Be	9	✓ 0.008	ug/L	0.007	88	7	8	28
	C	13		mg/L			5980	6922	1
	Cl	37		mg/L			3044792	14961942	0
[>	Sc	45		ug/L			227993	187861	0
[	V-1	51	0.316	ug/L	0.079	24	1256	3722	19
[	V	51	8.235	ug/L	0.331	4	3318	74011	4
[	Cr	52	4.812	ug/L	0.038	0	4241	39795	0
[	Cr	53	28.861	ug/L	1.053	3	1138	26975	3
[	Mn	55	0.224	ug/L	0.003	1	336	3049	1
[	Co	59	0.106	ug/L	0.005	4	35	1066	4
[>	Ge	72		ug/L			322645	238942	1
[	Ni	60	1.614	ug/L	0.032	1	77	3075	0
[	Ni	62	143.933	ug/L	26.733	18	47	40743	17
[	Cu	63	13.670	ug/L	1.378	10	215	59450	9
[	Cu	65	2.034	ug/L	0.046	2	103	4352	1
[	Zn	66	3.157	ug/L	0.067	2	184	4668	0
[	Zn	67	5.472	ug/L	0.029	0	117	1396	1
[	Zn	68	4.173	ug/L	0.061	1	4744	7789	1
[	As-1	75	2.818	ug/L	0.097	3	309	4047	1
[	As	75	3.350	ug/L	0.204	6	7188	9856	1
[	Se	82	0.773	ug/L	0.281	36	-2	93	38
[	Se	78	5.854	ug/L	0.467	7	7264	7190	0
[	Mo	98	2.387	ug/L	0.021	0	35	10947	2
	Y	89		ug/L			258568	206433	0
	Kr	83		ug/L			164	460	5
[>	In	115		ug/L			342647	265852	0
[	Ag	107	✓ 0.003	ug/L	0.001	44	102	107	11
[	Cd	111	-0.592	ug/L	0.202	34	148	-1139	37
[	Cd	114	0.181	ug/L	0.001	0	23	922	1
[	Sb	121	2.740	ug/L	0.012	0	158	21745	0
[	Sb	123	2.729	ug/L	0.027	0	125	16432	0
[	Ba	135	36.279	ug/L	0.118	0	23	61348	0
[	Ba	137	36.329	ug/L	0.301	0	28	103586	0
[>	Tb	159	✓	ug/L			358639	275397	0
[	Tl	205	0.001	ug/L	0.001	79	146	131	11
[	Pb	208	✓ 0.108	ug/L	0.004	3	641	3203	2
[	Bi	209		ug/L			288543	200231	1
[	Th	232	-0.004	ug/L	0.001	15	343	139	13
[	U	238	0.346	ug/L	0.002	0	65	10472	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ17 O REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, March 29, 2010 23:46:45
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

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	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			346137	326660	4
[	Be	9	U 0.001	ug/L	0.006	656	7	7	36
	C	13		mg/L			5980	7227	0
	Cl	37		mg/L			3044792	12259557	3
[>	Sc	45		ug/L			227993	206336	5
[	V-1	51	1.136	ug/L	0.071	6	1256	11771	11
[	V	51	8.285	ug/L	0.290	3	3318	81662	2
[	Cr	52	0.754	ug/L	0.026	3	4241	10087	5
[	Cr	53	22.708	ug/L	1.105	4	1138	23490	1
[	Mn	55	0.667	ug/L	0.009	1	336	9372	4
[	Co	59	0.093	ug/L	0.001	0	35	1030	6
[>	Ge	72		ug/L			322645	262747	5
[	Ni	60	2.927	ug/L	0.116	3	77	6091	8
[	Ni	62	139.347	ug/L	20.380	14	47	43213	9
[	Cu	63	11.155	ug/L	0.626	5	215	53319	2
[	Cu	65	1.727	ug/L	0.030	1	103	4078	6
[	Zn	66	399.123	ug/L	2.029	0	184	630385	4
[	Zn	67	355.493	ug/L	2.934	0	117	93630	4
[	Zn	68	385.721	ug/L	2.057	0	4744	438473	4
[	As-1	75	1.467	ug/L	0.145	9	309	2444	13
[	As	75	1.556	ug/L	0.060	3	7188	8166	4
[	Se	82	1.166	ug/L	0.197	16	-2	155	20
[	Se	78	3.581	ug/L	0.856	23	7264	7125	1
[	Mo	98	2.497	ug/L	0.023	0	35	12594	5
	Y	89		ug/L			258568	228505	5
	Kr	83		ug/L			164	406	3
[>	In	115		ug/L			342647	291574	5
[	Ag	107	U 0.001	ug/L	0.002	461	102	91	21
[	Cd	111	1.137	ug/L	0.217	19	148	2777	20
[	Cd	114	1.622	ug/L	0.009	0	23	8918	5
[	Sb	121	1.851	ug/L	0.021	1	158	16152	4
[	Sb	123	1.841	ug/L	0.008	0	125	12196	5
[	Ba	135	97.423	ug/L	0.442	0	23	180639	4
[	Ba	137	98.147	ug/L	1.414	1	28	306823	4
[>	Tb	159	U	ug/L			358639	305328	4
[	Tl	205	0.005	ug/L	0.001	26	146	231	7
[	Pb	208	U 0.111	ug/L	0.005	4	641	3617	1
[	Bi	209		ug/L			288543	224525	4
[	Th	232	-0.004	ug/L	0.001	31	343	165	18
[	U	238	0.151	ug/L	0.003	2	65	5103	2

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ17 P REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, March 29, 2010 23:53:31
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			346137	339633	0
[	Be	9	U 0.023	ug/L	0.006	25	7	16	15
	C	13		mg/L			5980	8430	2
	Cl	37		mg/L			3044792	3615175	0
[>	Sc	45		ug/L			227993	276171	0
|	V-1	51	6.008	ug/L	0.022	0	1256	76601	1
|	V	51	7.467	ug/L	0.045	0	3318	99022	0
|	Cr	52	1.196	ug/L	0.025	2	4241	18402	1
|	Cr	53	5.936	ug/L	0.179	3	1138	9249	1
|	Mn	55	407.166	ug/L	5.824	1	336	7409530	0
[	Co	59	0.225	ug/L	0.009	3	35	3284	3
[>	Ge	72		ug/L			322645	295474	0
|	Ni	60	0.563	ug/L	0.033	5	77	1373	5
|	Ni	62	35.037	ug/L	4.232	12	47	12305	11
|	Cu	63	2.057	ug/L	0.172	8	215	11232	7
|	Cu	65	U 0.369	ug/L	0.008	2	103	1055	1
|	Zn	66	2.390	ug/L	0.032	1	184	4412	1
|	Zn	67	3.986	ug/L	0.226	5	117	1286	4
|	Zn	68	3.050	ug/L	0.164	5	4744	8210	2
|	As-1	75	17.482	ug/L	0.094	0	309	29583	0
|	As	75	17.815	ug/L	0.112	0	7188	36407	0
|	Se	82	0.170	ug/L	0.133	78	-2	23	85
|	Se	78	1.916	ug/L	0.063	3	7264	7386	0
[	Mo	98	0.844	ug/L	0.020	2	35	4809	2
	Y	89		ug/L			258568	257435	0
	Kr	83		ug/L			164	207	4
[>	In	115		ug/L			342647	317796	0
|	Ag	107	U 0.001	ug/L	0.002	183	102	104	16
|	Cd	111	-0.006	ug/L	0.043	751	148	124	87
|	Cd	114	0.009	ug/L	0.002	20	23	76	14
|	Sb	121	U 0.017	ug/L	0.000	1	158	308	0
|	Sb	123	0.015	ug/L	0.002	15	125	223	8
|	Ba	135	5.717	ug/L	0.041	0	23	11575	1
[	Ba	137	5.751	ug/L	0.111	1	28	19623	1
[>	Tb	159		ug/L			358639	327988	0
|	Tl	205	U 0.010	ug/L	0.001	6	146	350	4
|	Pb	208	✓ 0.057	ug/L	0.003	5	641	2276	4
|	Bi	209		ug/L			288543	256434	1
|	Th	232	0.007	ug/L	0.000	6	343	540	2
[	U	238	0.004	ug/L	0.000	5	65	192	4

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QJ17 Q REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, March 30, 2010 00:00:19
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			346137	347888	1
[	Be	9	0.017	ug/L	0.017	99	7	14	50
	C	13		mg/L			5980	9686	1
	Cl	37		mg/L			3044792	6527984	0
[>	Sc	45		ug/L			227993	244867	0
[	V-1	51	1.801	ug/L	0.068	3	1256	21300	3
[	V	51	5.861	ug/L	0.242	4	3318	69682	4
[	Cr	52	0.471	ug/L	0.008	1	4241	9184	1
[	Cr	53	13.000	ug/L	0.948	7	1138	16510	6
[	Mn	55	0.833	ug/L	0.012	1	336	13799	0
[	Co	59	0.179	ug/L	0.008	4	35	2324	3
[>	Ge	72		ug/L			322645	284532	0
[	Ni	60	2.680	ug/L	0.029	1	77	6038	0
[	Ni	62	41.148	ug/L	2.387	5	47	13912	5
[	Cu	63	4.696	ug/L	0.114	2	215	24456	1
[	Cu	65	2.201	ug/L	0.039	1	103	5602	2
[	Zn	66	2.543	ug/L	0.064	2	184	4510	2
[	Zn	67	4.528	ug/L	0.160	3	117	1393	3
[	Zn	68	3.361	ug/L	0.110	3	4744	8286	2
[	As-1	75	0.585	ug/L	0.026	4	309	1216	2
[	As	75	0.651	ug/L	0.020	3	7188	7389	1
[	Se	82	1.358	ug/L	0.068	4	-2	195	5
[	Se	78	2.227	ug/L	0.170	7	7264	7227	1
[	Mo	98	1.414	ug/L	0.013	0	35	7737	1
	Y	89		ug/L			258568	242782	0
	Kr	83		ug/L			164	228	4
[>	In	115		ug/L			342647	311986	0
[	Ag	107	-0.001	ug/L	0.001	86	102	84	9
[	Cd	111	0.265	ug/L	0.050	19	148	793	16
[	Cd	114	0.463	ug/L	0.006	1	23	2741	1
[	Sb	121	0.478	ug/L	0.007	1	158	4572	0
[	Sb	123	0.473	ug/L	0.010	2	125	3433	1
[	Ba	135	34.654	ug/L	0.257	0	23	68770	0
[	Ba	137	34.784	ug/L	0.300	0	28	116397	0
[>	Tb	159		ug/L			358639	330030	0
[	Tl	205	0.011	ug/L	0.001	10	146	379	5
[	Pb	208	0.066	ug/L	0.001	1	641	2583	0
[	Bi	209		ug/L			288543	251637	0
[	Th	232	0.004	ug/L	0.001	12	343	462	4
[	U	238	0.018	ug/L	0.000	2	65	728	2

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QL58 A REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, March 30, 2010 00:07:07
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
>	Li	6		ug/L			346137	368188	1
	Be	9	0.027	ug/L	0.005	17	7	20	12
	C	13		mg/L			5980	7927	1
	Cl	37		mg/L			3044792	3197820	0
>	Sc	45		ug/L			227993	239032	0
	V-1	51	4.115	ug/L	0.081	1	1256	45826	2
	V	51	5.404	ug/L	0.035	0	3318	62995	1
	Cr	52	5.586	ug/L	0.053	0	4241	58073	1
	Cr	53	9.461	ug/L	0.269	2	1138	12052	2
	Mn	55	71.088	ug/L	0.187	0	336	1120078	1
	Co	59	1.029	ug/L	0.012	1	35	12843	0
>	Ge	72		ug/L			322645	308683	0
	Ni	60	5.363	ug/L	0.058	1	77	13032	0
	Ni	62	25.783	ug/L	1.238	4	47	9475	4
	Cu	63	32.249	ug/L	0.275	0	215	181022	0
	Cu	65	31.424	ug/L	0.253	0	103	85435	0
	Zn	66	176.143	ug/L	1.224	0	184	326944	0
	Zn	67	159.966	ug/L	0.311	0	117	49566	0
	Zn	68	172.493	ug/L	1.122	0	4744	232906	0
	As-1	75	1.235	ug/L	0.020	1	309	2459	1
	As	75	1.350	ug/L	0.032	2	7188	9237	0
	Se	82	0.031	ug/L	0.097	312	-2	2	599
	Se	78	0.706	ug/L	0.184	26	7264	7232	0
	Mo	98	2.830	ug/L	0.030	1	35	16758	0
	Y	89		ug/L			258568	263034	0
	Kr	83		ug/L			164	185	4
>	In	115		ug/L			342647	335303	1
	Ag	107	0.026	ug/L	0.003	10	102	390	6
	Cd	111	0.255	ug/L	0.014	5	148	827	5
	Cd	114	0.206	ug/L	0.004	1	23	1323	2
	Sb	121	4.052	ug/L	0.017	0	158	40492	1
	Sb	123	4.000	ug/L	0.024	0	125	30322	1
	Ba	135	50.882	ug/L	0.088	0	23	108513	1
	Ba	137	51.026	ug/L	0.621	1	28	183480	0
>	Tb	159		ug/L			358639	346228	0
	Tl	205	0.028	ug/L	0.001	2	146	806	1
	Pb	208	17.384	ug/L	0.072	0	641	548197	1
	Bi	209		ug/L			288543	284116	0
	Th	232	0.090	ug/L	0.002	1	343	3576	1
	U	238	0.043	ug/L	0.001	2	65	1682	3

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QL58 B REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, March 30, 2010 00:13:55
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
⌈>	**Li**	**6**		ug/L			346137	359207	1
⌊	**Be**	**9**	**0.028**	ug/L	0.005	18	7	20	10
	C	**13**		mg/L			5980	7765	0
	Cl	37		mg/L			3044792	3203798	0
⌈>	**Sc**	**45**		ug/L			227993	235788	0
⎢	**V-1**	**51**	**3.959**	ug/L	0.020	0	1256	43533	0
⎢	**V**	**51**	**5.138**	ug/L	0.054	1	3318	59247	0
⎢	**Cr**	**52**	**5.668**	ug/L	0.009	0	4241	58061	0
⎢	**Cr**	**53**	**9.193**	ug/L	0.173	1	1138	11586	1
⎢	**Mn**	**55**	**72.918**	ug/L	0.577	0	336	1133265	0
⌊	**Co**	**59**	**0.873**	ug/L	0.011	1	35	10757	0
⌈>	**Ge**	**72**		ug/L			322645	309122	0
⎢	**Ni**	**60**	**4.804**	ug/L	0.054	1	77	11698	0
⎢	**Ni**	**62**	**19.715**	ug/L	0.173	0	47	7267	1
⎢	**Cu**	**63**	**28.810**	ug/L	0.058	0	215	161979	0
⎢	**Cu**	**65**	**28.063**	ug/L	0.393	1	103	76415	0
⎢	**Zn**	**66**	**176.999**	ug/L	0.202	0	184	329013	0
⎢	**Zn**	**67**	**161.241**	ug/L	2.938	1	117	50027	1
⎢	**Zn**	**68**	**174.751**	ug/L	0.648	0	4744	236235	0
⎢	**As-1**	**75**	**1.232**	ug/L	0.030	2	309	2456	1
⎢	**As**	**75**	**1.383**	ug/L	0.060	4	7188	9308	0
⎢	**Se**	**82**	**0.065**	ug/L	0.069	105	-2	8	134
⎢	**Se**	**78**	**0.895**	ug/L	0.161	18	7264	7318	0
⌊	**Mo**	**98**	**2.332**	ug/L	0.093	3	35	13836	3
	Y	**89**		ug/L			258568	259539	0
	Kr	**83**		ug/L			164	185	3
⌈>	**In**	**115**		ug/L			342647	332650	0
⎢	**Ag**	**107**	**0.033**	ug/L	0.000	1	102	455	1
⎢	**Cd**	**111**	**0.225**	ug/L	0.015	6	148	740	6
⎢	**Cd**	**114**	**0.183**	ug/L	0.006	3	23	1169	3
⎢	**Sb**	**121**	**3.423**	ug/L	0.058	1	158	33958	1
⎢	**Sb**	**123**	**3.428**	ug/L	0.051	1	125	25791	0
⎢	**Ba**	**135**	**43.677**	ug/L	0.591	1	23	92407	0
⌊	**Ba**	**137**	**43.729**	ug/L	0.362	0	28	156004	0
⌈>	**Tb**	**159**		ug/L			358639	340458	0
⎢	**Tl**	**205**	**0.022**	ug/L	0.002	7	146	647	5
⎢	**Pb**	**208**	**17.439**	ug/L	0.140	0	641	540759	0
⎢	**Bi**	**209**		ug/L			288543	279238	0
⎢	**Th**	**232**	**0.087**	ug/L	0.001	1	343	3410	0
⌊	**U**	**238**	**0.040**	ug/L	0.001	2	65	1563	2

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV9
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, March 30, 2010 00:20:44
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			346137	352902	0
[	Be	9	49.328	ug/L	0.698	1	7	21571	0
	C	13		mg/L			5980	4850	2
	Cl	37		mg/L			3044792	3221631	0
[>	Sc	45		ug/L			227993	220587	0
[	V-1	51	48.921	ug/L	0.238	0	1256	489476	0
[	V	51	50.126	ug/L	0.193	0	3318	512634	0
[	Cr	52	48.908	ug/L	0.315	0	4241	437372	0
[	Cr	53	52.607	ug/L	0.226	0	1138	56828	0
[	Mn	55	49.987	ug/L	0.301	0	336	726909	0
[	Co	59	48.338	ug/L	0.339	0	35	555412	0
[>	Ge	72		ug/L			322645	304323	0
[	Ni	60	49.807	ug/L	0.397	0	77	118720	0
[	Ni	62	61.121	ug/L	0.506	0	47	22086	0
[	Cu	63	50.891	ug/L	0.159	0	215	281529	0
[	Cu	65	49.938	ug/L	0.104	0	103	133800	0
[	Zn	66	50.290	ug/L	0.355	0	184	92154	0
[	Zn	67	49.354	ug/L	0.071	0	117	15153	0
[	Zn	68	50.342	ug/L	0.427	0	4744	70184	0
[	As-1	75	48.792	ug/L	0.269	0	309	84517	0
[	As	75	48.962	ug/L	0.186	0	7188	91202	0
[	Se	82	50.558	ug/L	0.479	0	-2	7879	0
[	Se	78	51.446	ug/L	0.335	0	7264	27132	0
[	Mo	98	50.131	ug/L	0.261	0	35	292163	0
	Y	89		ug/L			258568	243710	0
	Kr	83		ug/L			164	181	2
[>	In	115		ug/L			342647	329107	0
[	Ag	107	51.141	ug/L	0.391	0	102	554103	0
[	Cd	111	50.617	ug/L	0.201	0	148	132798	0
[	Cd	114	49.743	ug/L	0.585	1	23	308100	0
[	Sb	121	50.138	ug/L	0.103	0	158	490008	0
[	Sb	123	49.751	ug/L	0.349	0	125	368757	0
[	Ba	135	49.519	ug/L	0.317	0	23	103654	0
[	Ba	137	49.782	ug/L	0.388	0	28	175710	0
[>	Tb	159		ug/L			358639	335775	0
[	Tl	205	50.495	ug/L	0.216	0	146	1164544	0
[	Pb	208	52.299	ug/L	0.558	1	641	1598200	0
[	Bi	209		ug/L			288543	270091	0
[	Th	232	51.051	ug/L	0.267	0	343	1784099	0
[	U	238	51.268	ug/L	0.418	0	65	1882068	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB9
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, March 30, 2010 00:28:11
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			346137	351351	0
[	Be	9	0.001	ug/L	0.005	701	7	7	28
	C	13		mg/L			5980	5111	0
	Cl	37		mg/L			3044792	3220994	0
[>	Sc	45		ug/L			227993	217764	1
[	V-1	51	-0.063	ug/L	0.012	18	1256	583	18
[	V	51	1.023	ug/L	0.020	1	3318	13434	1
[	Cr	52	0.013	ug/L	0.010	79	4241	4165	1
[	Cr	53	3.340	ug/L	0.033	0	1138	4580	1
[	Mn	55	0.047	ug/L	0.003	5	336	990	4
[	Co	59	0.001	ug/L	0.001	90	35	45	25
[>	Ge	72		ug/L			322645	302070	0
[	Ni	60	-0.001	ug/L	0.004	592	77	71	13
[	Ni	62	9.142	ug/L	0.185	2	47	3316	1
[	Cu	63	0.279	ug/L	0.012	4	215	1729	3
[	Cu	65	0.026	ug/L	0.010	39	103	165	16
[	Zn	66	0.056	ug/L	0.012	20	184	273	7
[	Zn	67	0.735	ug/L	0.105	14	117	332	10
[	Zn	68	0.414	ug/L	0.111	26	4744	4978	3
[	As-1	75	0.022	ug/L	0.017	77	309	328	8
[	As	75	0.364	ug/L	0.037	10	7188	7353	0
[	Se	82	-0.057	ug/L	0.094	165	-2	-11	132
[	Se	78	1.572	ug/L	0.126	8	7264	7416	0
[	Mo	98	0.004	ug/L	0.003	89	35	54	34
	Y	89		ug/L			258568	243936	0
	Kr	83		ug/L			164	175	4
[>	In	115		ug/L			342647	326380	0
[	Ag	107	-0.003	ug/L	0.002	61	102	70	24
[	Cd	111	0.001	ug/L	0.004	626	148	143	8
[	Cd	114	0.002	ug/L	0.000	24	23	34	9
[	Sb	121	0.024	ug/L	0.008	31	158	386	19
[	Sb	123	0.024	ug/L	0.009	35	125	298	21
[	Ba	135	0.010	ug/L	0.003	26	23	43	12
[	Ba	137	0.010	ug/L	0.002	25	28	61	14
[>	Tb	159		ug/L			358639	330884	1
[	Tl	205	0.012	ug/L	0.003	20	146	417	14
[	Pb	208	0.028	ug/L	0.002	8	641	1432	5
[	Bi	209		ug/L			288543	270489	1
[	Th	232	0.006	ug/L	0.003	48	343	507	19
[	U	238	0.001	ug/L	0.001	70	65	100	28

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QL58 MB1 REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, March 30, 2010 00:35:38
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass		Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6			ug/L			346137	359666	0
[	Be	9		-0.007	ug/L	0.009	118	7	4	91
	C	13			mg/L			5980	6455	1
	Cl	37			mg/L			3044792	3218210	0
[>	Sc	45			ug/L			227993	223021	0
[	V-1	51		-0.022	ug/L	0.007	32	1256	1004	7
[	V	51		0.935	ug/L	0.010	1	3318	12856	0
[	Cr	52		0.057	ug/L	0.013	22	4241	4660	2
[	Cr	53		2.991	ug/L	0.005	0	1138	4316	0
[	Mn	55		0.039	ug/L	0.001	2	336	908	1
[	Co	59		0.001	ug/L	0.001	66	35	49	20
[>	Ge	72			ug/L			322645	308807	0
[	Ni	60		0.004	ug/L	0.001	32	77	85	3
[	Ni	62		8.192	ug/L	0.247	3	47	3042	2
[	Cu	63		0.301	ug/L	0.009	3	215	1897	2
[	Cu	65		0.080	ug/L	0.004	5	103	317	3
[	Zn	66		0.769	ug/L	0.006	0	184	1602	0
[	Zn	67		1.377	ug/L	0.091	6	117	538	5
[	Zn	68		1.019	ug/L	0.013	1	4744	5890	0
[	As-1	75	U	0.045	ug/L	0.003	6	309	375	1
[	As	75		0.252	ug/L	0.025	9	7188	7320	0
[	Se	82		0.065	ug/L	0.040	61	-2	7	79
[	Se	78		1.073	ug/L	0.106	9	7264	7382	0
[	Mo	98		0.006	ug/L	0.001	13	35	67	6
	Y	89			ug/L			258568	249095	1
	Kr	83			ug/L			164	173	0
[>	In	115			ug/L			342647	334200	1
[	Ag	107		-0.005	ug/L	0.001	11	102	42	15
[	Cd	111		0.010	ug/L	0.009	90	148	172	14
[	Cd	114		0.002	ug/L	0.001	24	23	37	8
[	Sb	121		-0.004	ug/L	0.002	60	158	117	19
[	Sb	123		-0.003	ug/L	0.002	67	125	102	13
[	Ba	135		0.014	ug/L	0.003	24	23	51	14
[	Ba	137		0.010	ug/L	0.004	37	28	65	20
[>	Tb	159			ug/L			358639	338703	0
[	Tl	205		0.003	ug/L	0.001	56	146	197	16
[	Pb	208		0.009	ug/L	0.001	15	641	876	5
[	Bi	209			ug/L			288543	277676	0
[	Th	232		-0.004	ug/L	0.000	8	343	179	5
[	U	238		0.000	ug/L	0.000	101	65	73	14

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QL58 MB2 REN
Sample Dil Factor: 2
Comments:
Sample *Date/Time*: Tuesday, March 30, 2010 00:42:27
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			346137	362917	0
[	Be	9	-0.007	ug/L	0.002	22	7	4	17
	C	13		mg/L			5980	7361	1
	Cl	37		mg/L			3044792	3209082	0
[>	Sc	45		ug/L			227993	225390	0
[	V-1	51	0.023	ug/L	0.022	95	1256	1479	15
[	V	51	0.897	ug/L	0.030	3	3318	12596	2
[	Cr	52	0.082	ug/L	0.004	5	4241	4933	1
[	Cr	53	2.760	ug/L	0.084	3	1138	4112	1
[	Mn	55	0.057	ug/L	0.002	3	336	1176	2
[	Co	59	0.003	ug/L	0.000	9	35	71	4
[>	Ge	72		ug/L			322645	305635	0
[	Ni	60	0.014	ug/L	0.006	39	77	107	12
[	Ni	62	7.529	ug/L	0.148	1	47	2771	2
[	Cu	63	0.259	ug/L	0.008	3	215	1643	1
[	Cu	65	0.054	ug/L	0.002	3	103	244	1
[	Zn	66	0.509	ug/L	0.020	3	184	1109	3
[	Zn	67	1.117	ug/L	0.045	4	117	453	3
[	Zn	68	0.806	ug/L	0.029	3	4744	5550	0
[	As-1	75	0.029	ug/L	0.043	149	309	342	21
[	As	75	0.273	ug/L	0.039	14	7188	7281	0
[	Se	82	-0.021	ug/L	0.056	270	-2	-5	159
[	Se	78	1.206	ug/L	0.146	12	7264	7359	0
[	Mo	98	-0.000	ug/L	0.002	1291	35	32	37
	Y	89		ug/L			258568	249695	0
	Kr	83		ug/L			164	181	1
[>	In	115		ug/L			342647	337311	0
[	Ag	107	-0.006	ug/L	0.000	8	102	38	14
[	Cd	111	0.005	ug/L	0.006	119	148	159	10
[	Cd	114	0.001	ug/L	0.002	196	23	28	36
[	Sb	121	-0.008	ug/L	0.000	3	158	80	2
[	Sb	123	-0.008	ug/L	0.001	14	125	60	15
[	Ba	135	0.034	ug/L	0.002	4	23	95	3
[	Ba	137	0.035	ug/L	0.004	10	28	155	7
[>	Tb	159		ug/L			358639	341979	0
[	Tl	205	0.001	ug/L	0.001	151	146	153	13
[	Pb	208	0.005	ug/L	0.000	1	641	772	1
[	Bi	209		ug/L			288543	276557	0
[	Th	232	-0.004	ug/L	0.000	7	343	191	5
[	U	238	0.000	ug/L	0.000	183	65	70	21

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QL58 MB2SPK REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, March 30, 2010 00:49:17
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
>	Li	6		ug/L			346137	360087	0
	Be	9	24.806	ug/L	0.380	1	7	11072	1
	C	13		mg/L			5980	7171	2
	Cl	37		mg/L			3044792	3201553	0
>	Sc	45		ug/L			227993	223142	1
	V-1	51	24.796	ug/L	0.263	1	1256	251551	0
	V	51	25.661	ug/L	0.281	1	3318	267026	0
	Cr	52	25.737	ug/L	0.121	0	4241	234778	0
	Cr	53	28.338	ug/L	0.191	0	1138	31478	0
	Mn	55	25.689	ug/L	0.194	0	336	378027	0
	Co	59	25.043	ug/L	0.234	0	35	291084	1
>	Ge	72		ug/L			322645	303212	0
	Ni	60	26.328	ug/L	0.142	0	77	62560	0
	Ni	62	33.422	ug/L	0.281	0	47	12053	1
	Cu	63	31.061	ug/L	0.134	0	215	171283	0
	Cu	65	30.849	ug/L	0.281	0	103	82392	1
	Zn	66	79.959	ug/L	0.152	0	184	145884	0
	Zn	67	74.543	ug/L	0.451	0	117	22747	0
	Zn	68	78.710	ug/L	0.802	1	4744	106823	1
	As-1	75	24.938	ug/L	0.093	0	309	43181	0
	As	75	24.997	ug/L	0.228	0	7188	49698	0
	Se	82	78.374	ug/L	0.331	0	-2	12171	0
	Se	78	78.985	ug/L	0.975	1	7264	37849	1
	Mo	98	0.012	ug/L	0.002	16	35	105	10
	Y	89		ug/L			258568	246059	1
	Kr	83		ug/L			164	175	1
>	In	115		ug/L			342647	328798	1
	Ag	107	25.267	ug/L	0.293	1	102	273534	0
	Cd	111	25.537	ug/L	0.364	1	148	66999	0
	Cd	114	25.257	ug/L	0.256	1	23	156298	0
	Sb	121	-0.008	ug/L	0.001	16	158	73	16
	Sb	123	-0.008	ug/L	0.002	21	125	63	20
	Ba	135	25.676	ug/L	0.064	0	23	53707	1
	Ba	137	25.915	ug/L	0.248	0	28	91392	0
>	Tb	159		ug/L			358639	341306	1
	Tl	205	25.919	ug/L	0.410	1	146	607593	0
	Pb	208	27.055	ug/L	0.379	1	641	840599	0
	Bi	209		ug/L			288543	276913	0
	Th	232	26.257	ug/L	0.453	1	343	932759	0
	U	238	26.525	ug/L	0.260	0	65	989723	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QL58 MB1SPK REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, March 30, 2010 00:57:07
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
>	Li	6		ug/L			346137	362655	0
	Be	9	25.456	ug/L	0.578	2	7	11443	1
	C	13		mg/L			5980	6578	3
	Cl	37		mg/L			3044792	3193160	0
>	Sc	45		ug/L			227993	222727	1
	V-1	51	25.311	ug/L	0.303	1	1256	256284	1
	V	51	26.187	ug/L	0.268	1	3318	271937	0
	Cr	52	25.646	ug/L	0.142	0	4241	233530	0
	Cr	53	28.314	ug/L	0.254	0	1138	31394	0
	Mn	55	26.130	ug/L	0.216	0	336	383812	0
	Co	59	25.544	ug/L	0.213	0	35	296354	0
>	Ge	72		ug/L			322645	298440	0
	Ni	60	27.012	ug/L	0.171	0	77	63172	0
	Ni	62	33.361	ug/L	0.381	1	47	11841	1
	Cu	63	28.132	ug/L	0.037	0	215	152704	0
	Cu	65	27.588	ug/L	0.204	0	103	72530	0
	Zn	66	83.722	ug/L	0.646	0	184	150334	0
	Zn	67	77.810	ug/L	0.533	0	117	23366	1
	Zn	68	81.546	ug/L	0.442	0	4744	108772	0
	As-1	75	25.522	ug/L	0.187	0	309	43490	0
	As	75	25.709	ug/L	0.119	0	7188	50120	0
	Se	82	82.905	ug/L	1.230	1	-2	12672	1
	Se	78	84.070	ug/L	0.383	0	7264	39219	0
	Mo	98	0.012	ug/L	0.002	13	35	99	8
	Y	89		ug/L			258568	245927	0
	Kr	83		ug/L			164	168	3
>	In	115		ug/L			342647	328763	0
	Ag	107	25.712	ug/L	0.280	1	102	278333	0
	Cd	111	26.164	ug/L	0.135	0	148	68640	0
	Cd	114	25.858	ug/L	0.178	0	23	160000	0
	Sb	121	-0.007	ug/L	0.002	20	158	80	18
	Sb	123	-0.007	ug/L	0.001	19	125	68	14
	Ba	135	26.171	ug/L	0.241	0	23	54733	0
	Ba	137	26.019	ug/L	0.419	1	28	91749	0
>	Tb	159		ug/L			358639	335867	0
	Tl	205	26.881	ug/L	0.337	1	146	620157	0
	Pb	208	27.844	ug/L	0.407	1	641	851350	1
	Bi	209		ug/L			288543	278090	0
	Th	232	27.245	ug/L	0.021	0	343	952545	0
	U	238	27.488	ug/L	0.329	1	65	1009355	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QL58 CDUP REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, March 30, 2010 01:04:59
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			346137	360630	0
[	Be	9	0.011	ug/L	0.012	108	7	12	41
	C	13		mg/L			5980	7295	2
	Cl	37		mg/L			3044792	3131688	0
[>	Sc	45		ug/L			227993	222287	1
[	V-1	51	1.041	ug/L	0.044	4	1256	11697	3
[	V	51	1.825	ug/L	0.038	2	3318	21921	0
[	Cr	52	2.632	ug/L	0.012	0	4241	27628	0
[	Cr	53	4.948	ug/L	0.062	1	1138	6391	1
[	Mn	55	35.789	ug/L	0.269	0	336	524546	1
[	Co	59	0.290	ug/L	0.013	4	35	3387	4
[>	Ge	72		ug/L			322645	299789	0
[	Ni	60	1.700	ug/L	0.076	4	77	4061	4
[	Ni	62	8.050	ug/L	0.095	1	47	2903	1
[	Cu	63	9.248	ug/L	0.062	0	215	50561	0
[	Cu	65	9.015	ug/L	0.072	0	103	23873	0
[	Zn	66	36.127	ug/L	0.463	1	184	65262	1
[	Zn	67	32.745	ug/L	0.312	0	117	9941	1
[	Zn	68	35.457	ug/L	0.378	1	4744	49999	1
[	As-1	75	1.274	ug/L	0.018	1	309	2454	1
[	As	75	1.526	ug/L	0.034	2	7188	9270	0
[	Se	82	-0.025	ug/L	0.087	340	-2	-6	218
[	Se	78	1.195	ug/L	0.143	11	7264	7214	0
[	Mo	98	0.516	ug/L	0.003	0	35	2997	0
	Y	89		ug/L			258568	246829	0
	Kr	83		ug/L			164	172	2
[>	In	115		ug/L			342647	325958	0
[	Ag	107	0.015	ug/L	0.001	9	102	256	5
[	Cd	111	0.096	ug/L	0.010	10	148	391	6
[	Cd	114	0.083	ug/L	0.004	4	23	532	4
[	Sb	121	0.798	ug/L	0.007	0	158	7876	1
[	Sb	123	0.773	ug/L	0.009	1	125	5795	1
[	Ba	135	7.846	ug/L	0.094	1	23	16284	0
[	Ba	137	7.831	ug/L	0.049	0	28	27399	0
[>	Tb	159		ug/L			358639	338231	1
[	Tl	205	0.011	ug/L	0.000	2	146	391	0
[	Pb	208	3.978	ug/L	0.052	1	641	123017	0
[	Bi	209		ug/L			288543	274631	0
[	Th	232	0.034	ug/L	0.001	3	343	1513	2
[	U	238	0.021	ug/L	0.001	4	65	826	2

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QL58 C REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, March 30, 2010 01:11:42
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			346137	371913	0
[	Be	9	0.010	ug/L	0.007	70	7	12	26
	C	13		mg/L			5980	7491	2
	Cl	37		mg/L			3044792	3122310	0
[>	Sc	45		ug/L			227993	224256	0
|	V-1	51	1.026	ug/L	0.052	5	1256	11648	4
|	V	51	1.773	ug/L	0.027	1	3318	21583	0
|	Cr	52	2.629	ug/L	0.015	0	4241	27849	0
|	Cr	53	4.833	ug/L	0.145	2	1138	6324	2
|	Mn	55	35.378	ug/L	0.176	0	336	523108	0
[	Co	59	0.283	ug/L	0.005	1	35	3340	1
[>	Ge	72		ug/L			322645	303730	0
|	Ni	60	1.725	ug/L	0.035	2	77	4173	1
|	Ni	62	7.814	ug/L	0.214	2	47	2856	3
|	Cu	63	10.235	ug/L	0.083	0	215	56668	0
|	Cu	65	10.039	ug/L	0.121	1	103	26922	0
|	Zn	66	36.386	ug/L	0.163	0	184	66593	0
|	Zn	67	32.792	ug/L	0.247	0	117	10085	0
|	Zn	68	35.652	ug/L	0.277	0	4744	50908	0
|	As-1	75	1.318	ug/L	0.039	2	309	2562	2
|	As	75	1.450	ug/L	0.060	4	7188	9261	1
|	Se	82	0.071	ug/L	0.051	72	-2	8	90
|	Se	78	0.736	ug/L	0.187	25	7264	7128	0
[	Mo	98	0.509	ug/L	0.013	2	35	2994	1
	Y	89		ug/L			258568	249352	1
	Kr	83		ug/L			164	169	3
[>	In	115		ug/L			342647	330477	0
|	Ag	107	0.011	ug/L	0.002	18	102	215	10
|	Cd	111	0.094	ug/L	0.010	11	148	390	7
|	Cd	114	0.081	ug/L	0.003	3	23	527	3
|	Sb	121	0.802	ug/L	0.013	1	158	8024	1
|	Sb	123	0.787	ug/L	0.004	0	125	5976	0
|	Ba	135	7.840	ug/L	0.067	0	23	16498	0
[	Ba	137	7.818	ug/L	0.094	1	28	27732	1
[>	Tb	159		ug/L			358639	340636	0
|	Tl	205	0.006	ug/L	0.000	8	146	277	4
|	Pb	208	4.152	ug/L	0.027	0	641	129276	0
|	Bi	209		ug/L			288543	282064	1
|	Th	232	0.026	ug/L	0.002	9	343	1241	6
[	U	238	0.016	ug/L	0.001	3	65	653	3

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QL58 CSPK REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, March 30, 2010 01:18:26
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			346137	371504	0
[	Be	9	25.045	ug/L	0.050	0	7	11534	0
	C	13		mg/L			5980	7146	1
	Cl	37		mg/L			3044792	3109155	0
[>	Sc	45		ug/L			227993	227131	0
[	V-1	51	25.399	ug/L	0.187	0	1256	262272	0
[	V	51	26.224	ug/L	0.218	0	3318	277717	0
[	Cr	52	27.175	ug/L	0.210	0	4241	252098	0
[	Cr	53	29.606	ug/L	0.281	0	1138	33426	0
[	Mn	55	59.450	ug/L	0.351	0	336	890095	0
[	Co	59	24.738	ug/L	0.195	0	35	292694	0
[>	Ge	72		ug/L			322645	304269	0
[	Ni	60	27.359	ug/L	0.429	1	77	65230	1
[	Ni	62	32.559	ug/L	0.459	1	47	11782	0
[	Cu	63	35.559	ug/L	0.279	0	215	196730	0
[	Cu	65	35.116	ug/L	0.153	0	103	94097	0
[	Zn	66	115.564	ug/L	0.267	0	184	211503	1
[	Zn	67	105.747	ug/L	1.855	1	117	32331	0
[	Zn	68	112.192	ug/L	0.767	0	4744	150894	1
[	As-1	75	26.272	ug/L	0.351	1	309	45632	0
[	As	75	26.086	ug/L	0.282	1	7188	51745	0
[	Se	82	80.021	ug/L	1.650	2	-2	12469	1
[	Se	78	79.498	ug/L	1.332	1	7264	38180	0
[	Mo	98	0.512	ug/L	0.015	2	35	3017	2
	Y	89		ug/L			258568	248996	0
	Kr	83		ug/L			164	165	4
[>	In	115		ug/L			342647	330190	1
[	Ag	107	24.356	ug/L	0.187	0	102	264810	0
[	Cd	111	25.747	ug/L	0.177	0	148	67838	0
[	Cd	114	25.386	ug/L	0.244	0	23	157761	0
[	Sb	121	0.793	ug/L	0.005	0	158	7922	1
[	Sb	123	0.791	ug/L	0.015	1	125	5997	0
[	Ba	135	33.268	ug/L	0.398	1	23	69870	1
[	Ba	137	33.238	ug/L	0.366	1	28	117706	0
[>	Tb	159		ug/L			358639	344292	0
[	Tl	205	26.028	ug/L	0.208	0	146	615565	0
[	Pb	208	31.056	ug/L	0.371	1	641	973301	0
[	Bi	209		ug/L			288543	284607	0
[	Th	232	23.968	ug/L	0.375	1	343	859002	1
[	U	238	26.806	ug/L	0.182	0	65	1009037	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QL58 GDUP REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, March 30, 2010 01:25:10
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			346137	376464	1
[	Be	9	0.011	ug/L	0.008	71	7	12	29
	C	13		mg/L			5980	8263	0
	Cl	37		mg/L			3044792	3090610	0
[>	Sc	45		ug/L			227993	225808	0
[	V-1	51	0.510	ug/L	0.034	6	1256	6452	5
[	V	51	1.150	ug/L	0.023	1	3318	15252	1
[	Cr	52	1.327	ug/L	0.038	2	4241	16231	2
[	Cr	53	3.247	ug/L	0.042	1	1138	4648	1
[	Mn	55	22.564	ug/L	0.185	0	336	336077	0
[	Co	59	0.138	ug/L	0.004	3	35	1655	3
[>	Ge	72		ug/L			322645	305456	0
[	Ni	60	1.245	ug/L	0.007	0	77	3051	0
[	Ni	62	5.896	ug/L	0.271	4	47	2178	4
[	Cu	63	6.602	ug/L	0.081	1	215	36835	1
[	Cu	65	6.410	ug/L	0.108	1	103	17324	1
[	Zn	66	27.024	ug/L	0.392	1	184	49783	0
[	Zn	67	25.132	ug/L	0.040	0	117	7799	0
[	Zn	68	26.709	ug/L	0.399	1	4744	39482	0
[	As-1	75	0.988	ug/L	0.020	1	309	2004	1
[	As	75	1.058	ug/L	0.039	3	7188	8637	0
[	Se	82	0.073	ug/L	0.067	91	-2	9	114
[	Se	78	0.409	ug/L	0.118	28	7264	7039	0
[	Mo	98	0.444	ug/L	0.010	2	35	2632	1
	Y	89		ug/L			258568	249287	0
	Kr	83		ug/L			164	160	7
[>	In	115		ug/L			342647	332878	2
[	Ag	107	-0.000	ug/L	0.001	456	102	96	19
[	Cd	111	0.069	ug/L	0.006	8	148	327	6
[	Cd	114	0.060	ug/L	0.002	4	23	396	6
[	Sb	121	0.727	ug/L	0.007	0	158	7340	2
[	Sb	123	0.721	ug/L	0.009	1	125	5522	1
[	Ba	135	5.310	ug/L	0.068	1	23	11261	1
[	Ba	137	5.375	ug/L	0.050	0	28	19210	1
[>	Tb	159		ug/L			358639	348888	1
[	Tl	205	0.006	ug/L	0.000	0	146	288	1
[	Pb	208	0.297	ug/L	0.003	0	641	10052	0
[	Bi	209		ug/L			288543	283279	1
[	Th	232	0.012	ug/L	0.001	6	343	785	4
[	U	238	0.011	ug/L	0.000	2	65	487	2

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QL58 G REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, March 30, 2010 01:31:54
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			346137	374159	0
[	Be	9	0.002	ug/L	0.006	231	7	8	28
	C	13		mg/L			5980	8187	2
	Cl	37		mg/L			3044792	3086146	0
[>	Sc	45		ug/L			227993	223288	0
[	V-1	51	0.477	ug/L	0.031	6	1256	6047	4
[	V	51	1.130	ug/L	0.024	2	3318	14875	1
[	Cr	52	1.302	ug/L	0.030	2	4241	15833	1
[	Cr	53	3.262	ug/L	0.038	1	1138	4612	1
[	Mn	55	22.336	ug/L	0.375	1	336	328987	1
[	Co	59	0.157	ug/L	0.005	2	35	1864	3
[>	Ge	72		ug/L			322645	299362	0
[	Ni	60	1.241	ug/L	0.035	2	77	2980	2
[	Ni	62	5.066	ug/L	0.096	1	47	1840	1
[	Cu	63	6.525	ug/L	0.007	0	215	35680	0
[	Cu	65	6.449	ug/L	0.068	1	103	17080	0
[	Zn	66	27.311	ug/L	0.272	0	184	49305	0
[	Zn	67	24.882	ug/L	0.213	0	117	7568	0
[	Zn	68	26.552	ug/L	0.454	1	4744	38492	0
[	As-1	75	0.977	ug/L	0.026	2	309	1946	2
[	As	75	1.083	ug/L	0.047	4	7188	8505	0
[	Se	82	-0.067	ug/L	0.118	176	-2	-12	146
[	Se	78	0.528	ug/L	0.203	38	7264	6944	0
[	Mo	98	0.451	ug/L	0.007	1	35	2620	0
	Y	89		ug/L			258568	248001	0
	Kr	83		ug/L			164	173	5
[>	In	115		ug/L			342647	328698	1
[	Ag	107	-0.003	ug/L	0.001	20	102	67	9
[	Cd	111	0.057	ug/L	0.005	8	148	291	3
[	Cd	114	0.056	ug/L	0.004	7	23	366	7
[	Sb	121	0.712	ug/L	0.007	1	158	7097	2
[	Sb	123	0.719	ug/L	0.004	0	125	5441	1
[	Ba	135	5.320	ug/L	0.037	0	23	11142	1
[	Ba	137	5.303	ug/L	0.099	1	28	18719	1
[>	Tb	159		ug/L			358639	342364	1
[	Tl	205	0.002	ug/L	0.000	6	146	181	2
[	Pb	208	0.280	ug/L	0.007	2	641	9321	1
[	Bi	209		ug/L			288543	282832	0
[	Th	232	0.003	ug/L	0.001	17	343	439	4
[	U	238	0.007	ug/L	0.001	12	65	327	9

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QL58 GSPK REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, March 30, 2010 01:38:39
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
⌈>	Li	6		ug/L			346137	379270	0
⌊	Be	9	24.290	ug/L	0.319	1	7	11420	1
	C	13		mg/L			5980	8009	1
	Cl	37		mg/L			3044792	3084351	0
⌈>	Sc	45		ug/L			227993	221985	0
⌈	V-1	51	25.278	ug/L	0.156	0	1256	255111	0
⌊	V	51	25.966	ug/L	0.148	0	3318	268792	0
⌈	Cr	52	26.242	ug/L	0.260	0	4241	238071	0
⌊	Cr	53	28.300	ug/L	0.196	0	1138	31277	0
⌈	Mn	55	47.876	ug/L	0.439	0	336	700629	0
⌊	Co	59	24.650	ug/L	0.220	0	35	285042	0
⌈>	Ge	72		ug/L			322645	300588	0
⌈	Ni	60	26.614	ug/L	0.237	0	77	62693	1
⌊	Ni	62	30.282	ug/L	0.091	0	47	10830	0
⌈	Cu	63	32.640	ug/L	0.141	0	215	178420	0
⌊	Cu	65	32.229	ug/L	0.236	0	103	85325	0
⌈	Zn	66	105.104	ug/L	1.639	1	184	190042	1
⌊	Zn	67	97.846	ug/L	0.537	0	117	29565	0
⌈	Zn	68	101.814	ug/L	0.781	0	4744	135682	0
⌈	As-1	75	25.220	ug/L	0.219	0	309	43289	1
⌊	As	75	24.985	ug/L	0.176	0	7188	49248	0
⌈	Se	82	77.931	ug/L	0.175	0	-2	11998	0
⌊	Se	78	77.236	ug/L	0.330	0	7264	36840	0
⌊	Mo	98	0.444	ug/L	0.009	2	35	2587	1
	Y	89		ug/L			258568	246083	0
	Kr	83		ug/L			164	170	2
⌈>	In	115		ug/L			342647	328763	1
⌈	Ag	107	24.513	ug/L	0.199	0	102	265354	0
⌈	Cd	111	25.027	ug/L	0.238	0	148	65660	0
⌊	Cd	114	24.984	ug/L	0.220	0	23	154593	0
⌈	Sb	121	0.716	ug/L	0.004	0	158	7136	1
⌊	Sb	123	0.706	ug/L	0.017	2	125	5341	1
⌈	Ba	135	30.450	ug/L	0.537	1	23	63671	0
⌊	Ba	137	30.601	ug/L	0.436	1	28	107897	0
⌈>	Tb	159		ug/L			358639	343370	1
⌈	Tl	205	26.037	ug/L	0.079	0	146	614148	1
⌈	Pb	208	27.242	ug/L	0.106	0	641	851597	0
⌈	Bi	209		ug/L			288543	282061	0
⌈	Th	232	26.616	ug/L	0.442	1	343	951219	0
⌊	U	238	27.016	ug/L	0.439	1	65	1014112	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV10
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, March 30, 2010 01:45:26
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
>	Li	6		ug/L			346137	359401	0
	Be	9	48.630	ug/L	0.309	0	7	21660	1
	C	13		mg/L			5980	4697	0
	Cl	37		mg/L			3044792	3100166	0
>	Sc	45		ug/L			227993	211614	0
	V-1	51	49.446	ug/L	0.408	0	1256	474602	0
	V	51	50.089	ug/L	0.361	0	3318	491415	0
	Cr	52	49.333	ug/L	0.274	0	4241	423193	0
	Cr	53	51.309	ug/L	0.214	0	1138	53197	0
	Mn	55	49.890	ug/L	0.149	0	336	695985	0
	Co	59	48.407	ug/L	0.620	1	35	533568	0
>	Ge	72		ug/L			322645	288571	0
	Ni	60	49.783	ug/L	0.119	0	77	112519	0
	Ni	62	52.355	ug/L	0.367	0	47	17945	1
	Cu	63	50.456	ug/L	0.546	1	215	264662	0
	Cu	65	50.036	ug/L	0.017	0	103	127123	0
	Zn	66	50.801	ug/L	0.746	1	184	88268	1
	Zn	67	49.843	ug/L	0.208	0	117	14510	0
	Zn	68	50.039	ug/L	0.493	0	4744	66174	0
	As-1	75	48.890	ug/L	0.397	0	309	80302	0
	As	75	49.008	ug/L	0.321	0	7188	86553	0
	Se	82	51.488	ug/L	0.949	1	-2	7608	1
	Se	78	52.159	ug/L	0.645	1	7264	25993	0
	Mo	98	50.420	ug/L	0.426	0	35	278647	1
	Y	89		ug/L			258568	234736	0
	Kr	83		ug/L			164	173	2
>	In	115		ug/L			342647	316258	0
	Ag	107	50.483	ug/L	0.249	0	102	525627	0
	Cd	111	50.258	ug/L	0.401	0	148	126706	0
	Cd	114	50.094	ug/L	0.061	0	23	298170	0
	Sb	121	50.180	ug/L	0.500	0	158	471264	0
	Sb	123	50.134	ug/L	0.445	0	125	357088	0
	Ba	135	49.295	ug/L	0.484	0	23	99153	0
	Ba	137	50.138	ug/L	0.131	0	28	170057	0
>	Tb	159		ug/L			358639	326745	1
	Tl	205	51.726	ug/L	0.636	1	146	1160754	0
	Pb	208	52.953	ug/L	0.544	1	641	1574544	0
	Bi	209		ug/L			288543	265680	0
	Th	232	52.650	ug/L	0.734	1	343	1790287	0
	U	238	52.808	ug/L	0.892	1	65	1886249	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB10
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, March 30, 2010 01:52:54
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
>	Li	6		ug/L			346137	364279	0
	Be	9	-0.004	ug/L	0.004	121	7	5	32
	C	13		mg/L			5980	4987	2
	Cl	37		mg/L			3044792	3117228	0
>	Sc	45		ug/L			227993	214796	0
	V-1	51	-0.022	ug/L	0.053	243	1256	971	52
	V	51	0.597	ug/L	0.011	1	3318	9030	0
	Cr	52	-0.008	ug/L	0.009	117	4241	3929	1
	Cr	53	1.889	ug/L	0.120	6	1138	3021	4
	Mn	55	0.043	ug/L	0.002	4	336	925	3
	Co	59	0.002	ug/L	0.001	52	35	50	18
>	Ge	72		ug/L			322645	292721	0
	Ni	60	-0.008	ug/L	0.004	54	77	52	19
	Ni	62	2.447	ug/L	0.052	2	47	891	1
	Cu	63	0.065	ug/L	0.001	0	215	541	0
	Cu	65	0.013	ug/L	0.003	24	103	127	6
	Zn	66	0.039	ug/L	0.006	15	184	235	4
	Zn	67	0.394	ug/L	0.009	2	117	222	0
	Zn	68	0.268	ug/L	0.092	34	4744	4640	2
	As-1	75	0.005	ug/L	0.022	401	309	289	12
	As	75	0.195	ug/L	0.069	35	7188	6844	1
	Se	82	-0.047	ug/L	0.036	76	-2	-9	58
	Se	78	0.879	ug/L	0.233	26	7264	6924	1
	Mo	98	0.005	ug/L	0.002	38	35	63	18
	Y	89		ug/L			258568	237388	1
	Kr	83		ug/L			164	164	5
>	In	115		ug/L			342647	319604	0
	Ag	107	-0.001	ug/L	0.001	57	102	81	9
	Cd	111	0.002	ug/L	0.007	333	148	144	12
	Cd	114	0.002	ug/L	0.001	82	23	31	24
	Sb	121	0.024	ug/L	0.008	34	158	377	20
	Sb	123	0.023	ug/L	0.008	33	125	282	19
	Ba	135	0.009	ug/L	0.004	39	23	40	17
	Ba	137	0.008	ug/L	0.001	14	28	55	7
>	Tb	159		ug/L			358639	332476	0
	Tl	205	0.007	ug/L	0.001	7	146	294	4
	Pb	208	0.026	ug/L	0.000	1	641	1383	0
	Bi	209		ug/L			288543	275072	0
	Th	232	0.008	ug/L	0.001	15	343	589	6
	U	238	0.001	ug/L	0.001	86	65	97	32

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QN08 MB1 REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, March 30, 2010 02:00:20
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass	Conc. Mean		Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6			ug/L			346137	380438	0
[	Be	9	0.004		ug/L	0.008	202	7	9	37
	C	13			mg/L			5980	6725	2
	Cl	37			mg/L			3044792	3103034	0
[>	Sc	45			ug/L			227993	222399	1
[	V-1	51	0.029		ug/L	0.013	44	1256	1519	7
[	V	51	0.582		ug/L	0.023	4	3318	9197	2
[	Cr	52	0.049		ug/L	0.009	18	4241	4571	0
[	Cr	53	1.743		ug/L	0.061	3	1138	2972	2
[	Mn	55	0.117		ug/L	0.002	1	336	2038	1
[	Co	59	0.046		ug/L	0.003	6	35	564	7
[>	Ge	72			ug/L			322645	299776	0
[	Ni	60	0.016		ug/L	0.002	15	77	110	5
[	Ni	62	2.031		ug/L	0.087	4	47	765	4
[	Cu	63	0.157	U	ug/L	0.003	2	215	1056	1
[	Cu	65	0.109		ug/L	0.003	3	103	382	2
[	Zn	66	0.608	U	ug/L	0.028	4	184	1266	3
[	Zn	67	0.912		ug/L	0.141	15	117	382	10
[	Zn	68	0.690		ug/L	0.081	11	4744	5294	1
[	As-1	75	0.004		ug/L	0.014	315	309	295	7
[	As	75	0.133		ug/L	0.026	19	7188	6903	0
[	Se	82	0.029		ug/L	0.059	201	-2	2	395
[	Se	78	0.604		ug/L	0.110	18	7264	6984	0
[	Mo	98	0.002		ug/L	0.001	46	35	42	10
	Y	89			ug/L			258568	246610	0
	Kr	83			ug/L			164	155	2
[>	In	115			ug/L			342647	328010	1
[	Ag	107	-0.005		ug/L	0.001	13	102	46	16
[	Cd	111	0.005		ug/L	0.003	68	148	155	4
[	Cd	114	0.001		ug/L	0.000	69	23	26	9
[	Sb	121	-0.003		ug/L	0.002	91	158	127	18
[	Sb	123	-0.003		ug/L	0.001	44	125	99	10
[	Ba	135	0.034		ug/L	0.005	13	23	92	9
[	Ba	137	0.034		ug/L	0.004	13	28	147	11
[>	Tb	159			ug/L			358639	344203	1
[	Tl	205	-0.000		ug/L	0.001	343	146	134	13
[	Pb	208	0.002		ug/L	0.001	46	641	675	3
[	Bi	209			ug/L			288543	282315	0
[	Th	232	0.000		ug/L	0.001	292	343	344	11
[	U	238	0.000		ug/L	0.000	48	65	79	10

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QN08 MB2 REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, March 30, 2010 02:07:06
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			346137	377732	0
[	Be	9	-0.007	ug/L	0.006	84	7	4	56
	C	13		mg/L			5980	6286	2
	Cl	37		mg/L			3044792	3087331	0
[>	Sc	45		ug/L			227993	219850	0
[	V-1	51	0.020	ug/L	0.017	84	1256	1411	12
[	V	51	0.570	ug/L	0.003	0	3318	8971	0
[	Cr	52	0.047	ug/L	0.005	10	4241	4506	0
[	Cr	53	1.733	ug/L	0.057	3	1138	2927	1
[	Mn	55	0.017	ug/L	0.001	8	336	564	3
[	Co	59	0.002	ug/L	0.001	50	35	52	19
[>	Ge	72		ug/L			322645	296218	0
[	Ni	60	-0.010	ug/L	0.001	7	77	47	3
[	Ni	62	1.881	ug/L	0.046	2	47	703	2
[	Cu	63	0.090	ug/L	0.005	5	215	681	3
[	Cu	65	0.043	ug/L	0.006	13	103	206	8
[	Zn	66	0.923	ug/L	0.020	2	184	1813	2
[	Zn	67	1.135	ug/L	0.048	4	117	444	2
[	Zn	68	0.977	ug/L	0.072	7	4744	5596	1
[	As-1	75	0.014	ug/L	0.021	155	309	307	11
[	As	75	0.162	ug/L	0.054	33	7188	6870	1
[	Se	82	0.012	ug/L	0.086	735	-2	0	2898
[	Se	78	0.713	ug/L	0.178	24	7264	6943	0
[	Mo	98	0.004	ug/L	0.001	19	35	56	8
	Y	89		ug/L			258568	243374	0
	Kr	83		ug/L			164	159	2
[>	In	115		ug/L			342647	327315	1
[	Ag	107	-0.006	ug/L	0.001	10	102	29	23
[	Cd	111	0.007	ug/L	0.006	88	148	160	10
[	Cd	114	0.001	ug/L	0.001	95	23	28	20
[	Sb	121	-0.006	ug/L	0.002	35	158	92	23
[	Sb	123	-0.007	ug/L	0.001	20	125	69	14
[	Ba	135	0.008	ug/L	0.003	37	23	39	17
[	Ba	137	0.011	ug/L	0.003	24	28	67	15
[>	Tb	159		ug/L			358639	340917	0
[	Tl	205	-0.000	ug/L	0.001	1321	146	137	11
[	Pb	208	0.001	ug/L	0.001	191	641	629	5
[	Bi	209		ug/L			288543	279283	0
[	Th	232	-0.005	ug/L	0.001	21	343	167	20
[	U	238	0.000	ug/L	0.000	392	65	66	21

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QN08 MB2SPK REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, March 30, 2010 02:13:53
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			346137	373167	1
[	Be	9	25.628	ug/L	0.174	0	7	11855	0
	C	13		mg/L			5980	6310	1
	Cl	37		mg/L			3044792	3097034	0
[>	Sc	45		ug/L			227993	217860	0
|	V-1	51	25.961	ug/L	0.075	0	1256	257098	0
|	V	51	26.480	ug/L	0.029	0	3318	268949	0
|	Cr	52	26.238	ug/L	0.187	0	4241	233609	0
|	Cr	53	27.814	ug/L	0.102	0	1138	30187	0
|	Mn	55	26.685	ug/L	0.075	0	336	383406	1
[	Co	59	25.700	ug/L	0.402	1	35	291636	0
[>	Ge	72		ug/L			322645	295504	0
|	Ni	60	27.024	ug/L	0.600	2	77	62578	1
|	Ni	62	28.753	ug/L	0.209	0	47	10111	0
|	Cu	63	27.833	ug/L	0.109	0	215	149599	0
|	Cu	65	27.787	ug/L	0.535	1	103	72332	1
|	Zn	66	84.308	ug/L	0.896	1	184	149897	0
|	Zn	67	77.604	ug/L	1.089	1	117	23074	1
|	Zn	68	81.927	ug/L	1.182	1	4744	108182	1
|	As-1	75	25.825	ug/L	0.434	1	309	43571	1
|	As	75	25.603	ug/L	0.168	0	7188	49449	0
|	Se	82	83.407	ug/L	1.343	1	-2	12624	1
|	Se	78	82.736	ug/L	0.677	0	7264	38322	0
[	Mo	98	0.005	ug/L	0.001	23	35	59	10
	Y	89		ug/L			258568	241556	0
	Kr	83		ug/L			164	159	3
[>	In	115		ug/L			342647	324963	0
|	Ag	107	25.905	ug/L	0.271	1	102	277193	1
|	Cd	111	26.491	ug/L	0.102	0	148	68693	0
|	Cd	114	26.103	ug/L	0.109	0	23	159657	0
|	Sb	121	-0.006	ug/L	0.001	19	158	92	12
|	Sb	123	-0.009	ug/L	0.002	21	125	53	26
|	Ba	135	26.186	ug/L	0.283	1	23	54134	0
[	Ba	137	26.148	ug/L	0.137	0	28	91144	0
[>	Tb	159		ug/L			358639	336320	0
|	Tl	205	27.307	ug/L	0.360	1	146	630825	0
|	Pb	208	28.373	ug/L	0.181	0	641	868713	0
|	Bi	209		ug/L			288543	280196	0
|	Th	232	28.083	ug/L	0.164	0	343	983154	0
[	U	238	28.326	ug/L	0.125	0	65	1041578	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QN08 MB1SPK REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, March 30, 2010 02:21:40
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			346137	376367	0
[	Be	9	24.483	ug/L	0.472	1	7	11422	1
	C	13		mg/L			5980	6549	2
	Cl	37		mg/L			3044792	3079802	0
[>	Sc	45		ug/L			227993	219796	0
[	V-1	51	25.147	ug/L	0.118	0	1256	251289	0
[	V	51	25.729	ug/L	0.114	0	3318	263736	0
[	Cr	52	25.739	ug/L	0.166	0	4241	231283	0
[	Cr	53	27.492	ug/L	0.183	0	1138	30115	0
[	Mn	55	25.958	ug/L	0.067	0	336	376274	0
[	Co	59	25.209	ug/L	0.138	0	35	288642	1
[>	Ge	72		ug/L			322645	296383	0
[	Ni	60	26.338	ug/L	0.169	0	77	61175	1
[	Ni	62	27.789	ug/L	0.299	1	47	9802	0
[	Cu	63	27.178	ug/L	0.284	1	215	146510	0
[	Cu	65	26.932	ug/L	0.276	1	103	70320	1
[	Zn	66	80.566	ug/L	0.582	0	184	143675	0
[	Zn	67	74.559	ug/L	1.573	2	117	22237	1
[	Zn	68	78.066	ug/L	1.091	1	4744	103590	0
[	As-1	75	25.105	ug/L	0.193	0	309	42489	0
[	As	75	24.922	ug/L	0.307	1	7188	48451	0
[	Se	82	79.888	ug/L	0.224	0	-2	12127	0
[	Se	78	79.392	ug/L	0.610	0	7264	37152	0
[	Mo	98	0.006	ug/L	0.002	30	35	68	16
	Y	89		ug/L			258568	243147	0
	Kr	83		ug/L			164	162	1
[>	In	115		ug/L			342647	325643	0
[	Ag	107	25.354	ug/L	0.303	1	102	271862	1
[	Cd	111	25.681	ug/L	0.196	0	148	66736	0
[	Cd	114	25.358	ug/L	0.258	1	23	155424	0
[	Sb	121	-0.008	ug/L	0.001	10	158	72	11
[	Sb	123	-0.007	ug/L	0.001	14	125	65	12
[	Ba	135	25.839	ug/L	0.267	1	23	53528	1
[	Ba	137	26.077	ug/L	0.388	1	28	91088	1
[>	Tb	159		ug/L			358639	340151	1
[	Tl	205	26.809	ug/L	0.543	2	146	626259	0
[	Pb	208	27.968	ug/L	0.361	1	641	865963	0
[	Bi	209		ug/L			288543	281839	0
[	Th	232	27.444	ug/L	0.512	1	343	971531	0
[	U	238	27.733	ug/L	0.792	2	65	1031050	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QL58 D REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, March 30, 2010 02:29:27
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
⌈>	Li	6		ug/L			346137	366996	0
⌊	Be	9	0.024	ug/L	0.003	13	7	18	7
	C	13		mg/L			5980	7189	2
	Cl	37		mg/L			3044792	3026189	0
⌈>	Sc	45		ug/L			227993	227039	0
|	V-1	51	3.665	ug/L	0.037	1	1256	38898	0
|	V	51	4.275	ug/L	0.027	0	3318	48018	0
|	Cr	52	5.129	ug/L	0.036	0	4241	50992	0
|	Cr	53	6.920	ug/L	0.162	2	1138	8678	2
|	Mn	55	67.930	ug/L	0.692	1	336	1016637	1
⌊	Co	59	0.921	ug/L	0.022	2	35	10923	2
⌈>	Ge	72		ug/L			322645	291590	0
|	Ni	60	5.172	ug/L	0.114	2	77	11874	1
|	Ni	62	7.066	ug/L	0.237	3	47	2483	2
|	Cu	63	29.931	ug/L	0.414	1	215	158724	1
|	Cu	65	29.764	ug/L	0.185	0	103	76448	0
|	Zn	66	170.984	ug/L	1.598	0	184	299805	0
|	Zn	67	153.734	ug/L	0.823	0	117	45001	0
|	Zn	68	166.638	ug/L	0.455	0	4744	212694	0
|	As-1	75	1.157	ug/L	0.009	0	309	2193	0
|	As	75	1.248	ug/L	0.015	1	7188	8558	0
|	Se	82	0.129	ug/L	0.041	31	-2	17	35
|	Se	78	0.563	ug/L	0.071	12	7264	6778	0
⌊	Mo	98	2.909	ug/L	0.015	0	35	16273	0
	Y	89		ug/L			258568	251700	0
	Kr	83		ug/L			164	154	2
⌈>	In	115		ug/L			342647	319089	0
|	Ag	107	0.021	ug/L	0.003	16	102	312	11
|	Cd	111	0.228	ug/L	0.023	10	148	716	7
|	Cd	114	0.190	ug/L	0.007	3	23	1165	3
|	Sb	121	4.016	ug/L	0.039	0	158	38190	0
|	Sb	123	3.977	ug/L	0.085	2	125	28690	1
|	Ba	135	49.651	ug/L	0.741	1	23	100759	0
⌊	Ba	137	50.606	ug/L	0.888	1	28	173165	0
⌈>	Tb	159		ug/L			358639	334946	1
|	Tl	205	0.020	ug/L	0.001	6	146	602	4
|	Pb	208	15.724	ug/L	0.187	1	641	479688	0
|	Bi	209		ug/L			288543	277595	0
|	Th	232	0.099	ug/L	0.001	0	343	3756	0
⌊	U	238	0.040	ug/L	0.001	1	65	1534	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QL58 E REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, March 30, 2010 02:36:15
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	**Li**	**6**		ug/L			346137	374793	0
[	**Be**	**9**	**0.001**	ug/L	0.002	114	7	8	8
	C	**13**		mg/L			5980	7832	1
	Cl	**37**		mg/L			3044792	2988817	0
[>	**Sc**	**45**		ug/L			227993	221307	1
[	**V-1**	**51**	**0.445**	ug/L	0.014	3	1256	5677	3
[	**V**	**51**	**0.979**	ug/L	0.017	1	3318	13196	0
[	**Cr**	**52**	**0.944**	ug/L	0.004	0	4241	12505	0
[	**Cr**	**53**	**2.553**	ug/L	0.096	3	1138	3817	1
[	**Mn**	**55**	**37.700**	ug/L	0.612	1	336	550042	0
[	**Co**	**59**	**0.280**	ug/L	0.003	1	35	3256	0
[>	**Ge**	**72**		ug/L			322645	290046	0
[	**Ni**	**60**	**2.166**	ug/L	0.075	3	77	4988	4
[	**Ni**	**62**	**3.479**	ug/L	0.043	1	47	1238	1
[	**Cu**	**63**	**13.374**	ug/L	0.139	1	215	70658	1
[	**Cu**	**65**	**13.247**	ug/L	0.160	1	103	33894	0
[	**Zn**	**66**	**105.272**	ug/L	0.305	0	184	183677	1
[	**Zn**	**67**	**95.306**	ug/L	1.183	1	117	27789	0
[	**Zn**	**68**	**102.846**	ug/L	0.811	0	4744	132202	0
[	**As-1**	**75**	**0.552**	ug/L	0.015	2	309	1186	2
[	**As**	**75**	**0.640**	ug/L	0.018	2	7188	7513	0
[	**Se**	**82**	**0.143**	ug/L	0.044	30	-2	19	34
[	**Se**	**78**	**0.582**	ug/L	0.053	9	7264	6749	0
[	**Mo**	**98**	**2.299**	ug/L	0.033	1	35	12800	0
	Y	**89**		ug/L			258568	243260	0
	Kr	**83**		ug/L			164	156	5
[>	**In**	**115**		ug/L			342647	318623	0
[	**Ag**	**107**	**-0.000**	ug/L	0.001	219	102	90	10
[	**Cd**	**111**	**0.124**	ug/L	0.002	1	148	452	0
[	**Cd**	**114**	**0.120**	ug/L	0.009	7	23	740	6
[	**Sb**	**121**	**2.214**	ug/L	0.027	1	158	21091	0
[	**Sb**	**123**	**2.198**	ug/L	0.040	1	125	15883	0
[	**Ba**	**135**	**28.963**	ug/L	0.639	2	23	58695	1
[	**Ba**	**137**	**29.237**	ug/L	0.338	1	28	99911	0
[>	**Tb**	**159**		ug/L			358639	336845	0
[	**Tl**	**205**	**0.007**	ug/L	0.001	13	146	310	6
[	**Pb**	**208**	**0.703**	ug/L	0.012	1	641	22132	1
[	**Bi**	**209**		ug/L			288543	276767	0
[	**Th**	**232**	**0.005**	ug/L	0.000	8	343	497	2
[	**U**	**238**	**0.008**	ug/L	0.001	15	65	363	11

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QL58 F REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, March 30, 2010 02:43:04
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	**Li**	**6**		ug/L			346137	380537	0
[	**Be**	**9**	**-0.007**	ug/L	0.004	60	7	4	41
	C	**13**		mg/L			5980	8131	2
	Cl	**37**		mg/L			3044792	2956707	0
[>	**Sc**	**45**		ug/L			227993	221209	0
[	**V-1**	**51**	**0.365**	ug/L	0.011	2	1256	4876	2
[	**V**	**51**	**0.868**	ug/L	0.010	1	3318	12062	0
[	**Cr**	**52**	**1.042**	ug/L	0.030	2	4241	13374	1
[	**Cr**	**53**	**2.546**	ug/L	0.031	1	1138	3809	0
[	**Mn**	**55**	**33.143**	ug/L	0.303	0	336	483437	0
[	**Co**	**59**	**0.156**	ug/L	0.003	1	35	1828	1
[>	**Ge**	**72**		ug/L			322645	290650	0
[	**Ni**	**60**	**1.902**	ug/L	0.024	1	77	4398	1
[	**Ni**	**62**	**3.066**	ug/L	0.175	5	47	1098	5
[	**Cu**	**63**	**10.484**	ug/L	0.087	0	215	55546	0
[	**Cu**	**65**	**10.306**	ug/L	0.141	1	103	26447	1
[	**Zn**	**66**	**96.696**	ug/L	0.750	0	184	169078	0
[	**Zn**	**67**	**87.241**	ug/L	0.493	0	117	25501	0
[	**Zn**	**68**	**95.024**	ug/L	0.496	0	4744	122733	0
[	**As-1**	**75**	**0.462**	ug/L	0.008	1	309	1040	1
[	**As**	**75**	**0.550**	ug/L	0.026	4	7188	7380	0
[	**Se**	**82**	**0.013**	ug/L	0.035	263	-2	0	4081
[	**Se**	**78**	**0.466**	ug/L	0.132	28	7264	6719	0
[	**Mo**	**98**	**1.717**	ug/L	0.019	1	35	9587	1
	Y	**89**		ug/L			258568	240959	1
	Kr	**83**		ug/L			164	158	2
[>	**In**	**115**		ug/L			342647	322181	0
[	**Ag**	**107**	**-0.004**	ug/L	0.000	11	102	52	9
[	**Cd**	**111**	**0.080**	ug/L	0.003	3	148	345	1
[	**Cd**	**114**	**0.089**	ug/L	0.007	7	23	560	6
[	**Sb**	**121**	**1.641**	ug/L	0.015	0	158	15842	0
[	**Sb**	**123**	**1.613**	ug/L	0.014	0	125	11814	0
[	**Ba**	**135**	**22.763**	ug/L	0.177	0	23	46658	1
[	**Ba**	**137**	**23.168**	ug/L	0.366	1	28	80071	1
[>	**Tb**	**159**		ug/L			358639	341850	0
[	**Tl**	**205**	**0.005**	ug/L	0.000	9	146	249	4
[	**Pb**	**208**	**0.434**	ug/L	0.004	0	641	14101	0
[	**Bi**	**209**		ug/L			288543	280356	0
[	**Th**	**232**	**0.001**	ug/L	0.000	15	343	377	1
[	**U**	**238**	**0.007**	ug/L	0.000	5	65	311	4

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QL58 H REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, March 30, 2010 02:49:53
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	**Li**	**6**		ug/L			346137	380430	0
[	**Be**	**9**	**-0.001**	ug/L	0.002	107	7	7	10
	C	**13**		mg/L			5980	8121	1
	Cl	**37**		mg/L			3044792	2971871	0
[>	**Sc**	**45**		ug/L			227993	220686	0
[	**V-1**	**51**	**0.461**	ug/L	0.030	6	1256	5818	5
[	**V**	**51**	**0.943**	ug/L	0.012	1	3318	12798	1
[	**Cr**	**52**	**0.939**	ug/L	0.024	2	4241	12430	2
[	**Cr**	**53**	**2.392**	ug/L	0.031	1	1138	3636	0
[	**Mn**	**55**	**37.865**	ug/L	0.188	0	336	550946	0
[	**Co**	**59**	**0.285**	ug/L	0.004	1	35	3308	1
[>	**Ge**	**72**		ug/L			322645	289079	0
[	**Ni**	**60**	**2.160**	ug/L	0.020	0	77	4958	1
[	**Ni**	**62**	**3.495**	ug/L	0.188	5	47	1239	5
[	**Cu**	**63**	**13.282**	ug/L	0.032	0	215	69935	0
[	**Cu**	**65**	**13.255**	ug/L	0.059	0	103	33804	0
[	**Zn**	**66**	**106.037**	ug/L	0.964	0	184	184389	0
[	**Zn**	**67**	**95.104**	ug/L	0.996	1	117	27639	1
[	**Zn**	**68**	**102.898**	ug/L	1.241	1	4744	131832	1
[	**As-1**	**75**	**0.512**	ug/L	0.017	3	309	1116	1
[	**As**	**75**	**0.558**	ug/L	0.059	10	7188	7353	0
[	**Se**	**82**	**0.014**	ug/L	0.018	124	-2	0	40894
[	**Se**	**78**	**0.275**	ug/L	0.211	76	7264	6611	0
[	**Mo**	**98**	**2.308**	ug/L	0.038	1	35	12806	0
	Y	**89**		ug/L			258568	243168	0
	Kr	**83**		ug/L			164	156	0
[>	**In**	**115**		ug/L			342647	316608	0
[	**Ag**	**107**	**0.004**	ug/L	0.002	38	102	135	11
[	**Cd**	**111**	**0.124**	ug/L	0.017	13	148	451	10
[	**Cd**	**114**	**0.121**	ug/L	0.005	3	23	741	2
[	**Sb**	**121**	**2.230**	ug/L	0.032	1	158	21103	1
[	**Sb**	**123**	**2.213**	ug/L	0.040	1	125	15886	0
[	**Ba**	**135**	**29.246**	ug/L	0.174	0	23	58901	0
[	**Ba**	**137**	**29.606**	ug/L	0.419	1	28	100532	0
[>	**Tb**	**159**		ug/L			358639	340308	0
[	**Tl**	**205**	**0.006**	ug/L	0.001	14	146	277	7
[	**Pb**	**208**	**0.676**	ug/L	0.008	1	641	21538	1
[	**Bi**	**209**		ug/L			288543	279667	0
[	**Th**	**232**	**-0.001**	ug/L	0.001	123	343	300	10
[	**U**	**238**	**0.007**	ug/L	0.000	2	65	315	2

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QN08 A REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, March 30, 2010 02:56:42
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			346137	384293	1
[	Be	9	0.000	ug/L	0.005	6756	7	7	32
	C	13		mg/L			5980	7713	0
	Cl	37		mg/L			3044792	2954297	0
[>	Sc	45		ug/L			227993	218755	0
[	V-1	51	0.361	ug/L	0.022	6	1256	4779	5
[	V	51	0.834	ug/L	0.016	1	3318	11589	0
[	Cr	52	0.310	ug/L	0.008	2	4241	6789	1
[	Cr	53	1.764	ug/L	0.077	4	1138	2944	1
[	Mn	55	25.605	ug/L	0.056	0	336	369409	0
[	Co	59	0.067	ug/L	0.005	6	35	798	6
[>	Ge	72		ug/L			322645	286616	0
[	Ni	60	0.925	ug/L	0.030	3	77	2143	3
[	Ni	62	2.202	ug/L	0.086	3	47	789	3
[	Cu	63	4.961	ug/L	0.081	1	215	26017	1
[	Cu	65	4.860	ug/L	0.101	2	103	12345	1
[	Zn	66	15.231	ug/L	0.182	1	184	26399	0
[	Zn	67	14.468	ug/L	0.231	1	117	4257	1
[	Zn	68	14.998	ug/L	0.142	0	4744	22652	1
[	As-1	75	0.696	ug/L	0.011	1	309	1407	1
[	As	75	0.750	ug/L	0.036	4	7188	7604	1
[	Se	82	0.118	ug/L	0.062	52	-2	15	60
[	Se	78	0.360	ug/L	0.090	24	7264	6587	1
[	Mo	98	1.236	ug/L	0.012	0	35	6816	1
	Y	89		ug/L			258568	240488	0
	Kr	83		ug/L			164	147	1
[>	In	115		ug/L			342647	316931	1
[	Ag	107	0.001	ug/L	0.001	260	102	100	14
[	Cd	111	0.028	ug/L	0.003	11	148	208	3
[	Cd	114	0.032	ug/L	0.003	10	23	213	8
[	Sb	121	1.349	ug/L	0.023	1	158	12834	0
[	Sb	123	1.342	ug/L	0.044	3	125	9689	2
[	Ba	135	10.058	ug/L	0.099	0	23	20290	0
[	Ba	137	10.227	ug/L	0.073	0	28	34781	0
[>	Tb	159		ug/L			358639	338336	1
[	Tl	205	0.007	ug/L	0.001	10	146	302	6
[	Pb	208	0.709	ug/L	0.001	0	641	22416	1
[	Bi	209		ug/L			288543	278539	0
[	Th	232	0.004	ug/L	0.001	12	343	477	3
[	U	238	0.019	ug/L	0.001	4	65	763	3

ICP-MS Quantitative Analysis - Summary Report

Sample ID: QN08 B REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, March 30, 2010 03:03:37
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			346137	374857	0
[	Be	9	0.001	ug/L	0.014	2554	7	7	81
	C	13		mg/L			5980	6982	0
	Cl	37		mg/L			3044792	2968298	0
[>	Sc	45		ug/L			227993	214041	0
[	V-1	51	0.625	ug/L	0.016	2	1256	7233	2
[	V	51	1.096	ug/L	0.004	0	3318	13922	0
[	Cr	52	0.552	ug/L	0.021	3	4241	8727	1
[	Cr	53	2.001	ug/L	0.056	2	1138	3125	1
[	Mn	55	33.670	ug/L	0.270	0	336	475188	0
[	Co	59	0.124	ug/L	0.005	3	35	1419	3
[>	Ge	72		ug/L			322645	281313	0
[	Ni	60	1.035	ug/L	0.055	5	77	2346	5
[	Ni	62	2.228	ug/L	0.065	2	47	783	2
[	Cu	63	7.110	ug/L	0.075	1	215	36516	0
[	Cu	65	6.964	ug/L	0.059	0	103	17326	0
[	Zn	66	19.866	ug/L	0.269	1	184	33747	1
[	Zn	67	18.578	ug/L	0.434	2	117	5336	1
[	Zn	68	19.461	ug/L	0.239	1	4744	27617	0
[	As-1	75	0.850	ug/L	0.028	3	309	1626	2
[	As	75	0.923	ug/L	0.083	8	7188	7738	1
[	Se	82	0.035	ug/L	0.065	188	-2	2	324
[	Se	78	0.451	ug/L	0.238	52	7264	6498	1
[	Mo	98	1.304	ug/L	0.009	0	35	7055	0
	Y	89		ug/L			258568	233178	0
	Kr	83		ug/L			164	158	8
[>	In	115		ug/L			342647	308413	0
[	Ag	107	-0.003	ug/L	0.002	54	102	59	31
[	Cd	111	0.038	ug/L	0.001	3	148	226	0
[	Cd	114	0.035	ug/L	0.002	5	23	225	5
[	Sb	121	1.450	ug/L	0.035	2	158	13419	1
[	Sb	123	1.459	ug/L	0.024	1	125	10245	1
[	Ba	135	11.617	ug/L	0.043	0	23	22804	0
[	Ba	137	11.781	ug/L	0.134	1	28	38988	1
[>	Tb	159		ug/L			358639	330806	0
[	Tl	205	0.004	ug/L	0.001	15	146	230	6
[	Pb	208	1.865	ug/L	0.025	1	641	56723	0
[	Bi	209		ug/L			288543	272043	0
[	Th	232	-0.000	ug/L	0.001	179	343	301	8
[	U	238	0.028	ug/L	0.001	3	65	1074	3

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV11
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, March 30, 2010 03:10:26
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			346137	367205	0
[	Be	9	48.745	ug/L	0.548	1	7	22182	0
	C	13		mg/L			5980	4632	1
	Cl	37		mg/L			3044792	3022772	0
[>	Sc	45		ug/L			227993	205947	0
[	V-1	51	48.988	ug/L	0.252	0	1256	457616	0
[	V	51	49.468	ug/L	0.357	0	3318	472370	0
[	Cr	52	48.950	ug/L	0.292	0	4241	408688	0
[	Cr	53	50.425	ug/L	0.891	1	1138	50899	1
[	Mn	55	49.848	ug/L	0.376	0	336	676784	0
[	Co	59	46.971	ug/L	0.391	0	35	503887	0
[>	Ge	72		ug/L			322645	277945	1
[	Ni	60	49.379	ug/L	0.965	1	77	107488	1
[	Ni	62	50.133	ug/L	0.502	1	47	16551	0
[	Cu	63	49.787	ug/L	0.594	1	215	251545	1
[	Cu	65	49.689	ug/L	0.334	0	103	121587	1
[	Zn	66	50.003	ug/L	0.097	0	184	83685	1
[	Zn	67	49.784	ug/L	0.434	0	117	13958	0
[	Zn	68	49.660	ug/L	0.246	0	4744	63286	1
[	As-1	75	48.875	ug/L	0.419	0	309	77318	1
[	As	75	48.861	ug/L	0.537	1	7188	83130	0
[	Se	82	51.901	ug/L	0.148	0	-2	7387	1
[	Se	78	51.911	ug/L	1.137	2	7264	24944	0
[	Mo	98	50.408	ug/L	0.455	0	35	268289	0
	Y	89		ug/L			258568	227791	1
	Kr	83		ug/L			164	153	2
[>	In	115		ug/L			342647	302535	0
[	Ag	107	51.188	ug/L	0.103	0	102	509844	0
[	Cd	111	50.808	ug/L	0.123	0	148	122538	0
[	Cd	114	50.577	ug/L	0.416	0	23	287981	0
[	Sb	121	50.843	ug/L	0.299	0	158	456780	0
[	Sb	123	50.419	ug/L	0.218	0	125	343543	0
[	Ba	135	49.788	ug/L	0.270	0	23	95802	0
[	Ba	137	50.441	ug/L	0.412	0	28	163659	0
[>	Tb	159		ug/L			358639	324259	0
[	Tl	205	51.022	ug/L	0.356	0	146	1136328	0
[	Pb	208	52.921	ug/L	0.226	0	641	1561782	1
[	Bi	209		ug/L			288543	266961	0
[	Th	232	53.320	ug/L	0.584	1	343	1799383	0
[	U	238	53.730	ug/L	0.646	1	65	1904728	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB11
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, March 30, 2010 03:17:54
Number of Replicates: 3
Method File: C:\Elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\032910.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			346137	370487	0
[	Be	9	0.003	ug/L	0.007	281	7	8	37
	C	13		mg/L			5980	4729	4
	Cl	37		mg/L			3044792	3015929	0
[>	Sc	45		ug/L			227993	207764	0
[	V-1	51	-0.007	ug/L	0.015	200	1256	1074	12
[	V	51	0.461	ug/L	0.007	1	3318	7438	0
[	Cr	52	-0.016	ug/L	0.011	69	4241	3732	2
[	Cr	53	1.422	ug/L	0.050	3	1138	2456	2
[	Mn	55	0.044	ug/L	0.003	6	336	907	4
[	Co	59	0.001	ug/L	0.001	54	35	46	17
[>	Ge	72		ug/L			322645	279791	0
[	Ni	60	-0.007	ug/L	0.004	52	77	52	14
[	Ni	62	0.949	ug/L	0.025	2	47	355	1
[	Cu	63	0.025	ug/L	0.003	11	215	316	5
[	Cu	65	0.003	ug/L	0.008	241	103	97	20
[	Zn	66	0.030	ug/L	0.009	29	184	209	6
[	Zn	67	0.265	ug/L	0.047	17	117	176	7
[	Zn	68	0.115	ug/L	0.110	95	4744	4251	2
[	As-1	75	0.022	ug/L	0.017	77	309	304	9
[	As	75	0.198	ug/L	0.048	24	7188	6547	0
[	Se	82	-0.003	ug/L	0.041	1272	-2	-2	237
[	Se	78	0.859	ug/L	0.230	26	7264	6610	0
[	Mo	98	0.005	ug/L	0.000	9	35	57	4
	Y	89		ug/L			258568	234099	0
	Kr	83		ug/L			164	156	4
[>	In	115		ug/L			342647	310264	1
[	Ag	107	-0.002	ug/L	0.000	20	102	72	5
[	Cd	111	-0.003	ug/L	0.007	237	148	127	15
[	Cd	114	0.004	ug/L	0.002	49	23	41	22
[	Sb	121	0.024	ug/L	0.006	23	158	363	15
[	Sb	123	0.021	ug/L	0.006	28	125	257	17
[	Ba	135	0.009	ug/L	0.005	51	23	38	23
[	Ba	137	0.009	ug/L	0.004	42	28	55	21
[>	Tb	159		ug/L			358639	328134	1
[	Tl	205	0.009	ug/L	0.001	6	146	343	3
[	Pb	208	0.033	ug/L	0.004	11	641	1584	8
[	Bi	209		ug/L			288543	272930	0
[	Th	232	0.009	ug/L	0.003	29	343	630	14
[	U	238	0.001	ug/L	0.001	55	65	97	20

end package

Metals Analysis
Prep Logs

prepared
for

Floyd/Snider

Project: Lora Lake Apartments, POS-LLA

ARI JOB NO: QL58

prepared
by

Analytical Resources, Inc.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

SPIKING LOG

Analyst: DM

Date: 3-01-10

Final Volume 25

Final Volume (Hg): _____

Sample ID QLS8 CSPK, MB1SPK
GSPK, MB2SPK

	Prepcode:			
	Spike Solution:	ICP Routine	ICP No GFA	GFA
	Standard No.:			
	Vol Added (mL):			
STOCK CONCENTRATION	Ag	50		2.0
	Al	200	200	
	As	200		10
	Ba	200	200	
	Be	50	50	
	Ca	1000	1000	
	Cd	50		2.0
	Co	50	50	
	Cr	50	50	
	Cu	50	50	
	Fe	200	200	
	K	1000	1000	
	Mg	1000	1000	
	Mn	50	50	
	Na	1000	1000	
	Ni	50	50	
	Pb	200		10
	Se	200		10
	Sr	50	50	
	Tl	200		10
	V	50	50	
	Zn	50	50	

	REN		
	ICP-MS #1	ICP-MS #2	ICP-MS Minerals
	2680-14		
	0.05		
Ag	25		
Al			500
As	25 ✓		
Ba	25		
Be	25		
Ca			500
Cd	25		
Co	25		
Cr	25		
Cu	25		
Fe			500
K			500
Mg			500
Mn	25		
Mo		25	
Na			500
Ni	25		
Pb	25		
Sb		25	
Se	80		
Tl	25		
U	25		
V	25		
Zn	80		

Element	Prepcode	Analysis	Stock Conc.	Stock Added	Std No.
Hg		CVA	1.0		
Hg MBSPK		CVA	1.0		
Sb		ICP	2000		
Sb		GFA	100		
B		ICP	500		
Mo		ICP	500		
Si		ICP	10000		
Sn		ICP	500		
Ti		ICP	2000		

Additional Elements:

Element	Prepcode	Analysis	Stock Conc.	Stock Added	Std. No.

QLS8 , 050301

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Digestion Log

Analyst: DM Date: 3-01-10

Matrix: water Block Temp: 92°C

ARI Sample ID	Btl #	pH<2	Prep Code: REN Initial ~~Wt (g)~~ Vol (mL)	Prep Code: REN Final Vol (mL)	Prep Code: Initial Wt (g) Vol (mL)	Prep Code: Final Vol (mL)	Comments
QL55 A	2	√	50.0	25.0			
" B	2	√					
" C	2	√					
" D	2	√					
" MB	—	√					
" MBSPK	—	√					
QL56 A	6	√					
" B	6	√					
" C	11	√					
" CDUP	11	√					
" CSPK	11	√					
" D	6	√					
" MB1	—	√					
" MB1SPK	—	√					
" E	1	—					Filtered in Lab
" F	1	—					" "
" G	1	—					" "
" GDUP	1	—					" "
" GSPK	1	—					" "
" H	1	—					" "
" MB2	—	—	↓	↓			" "
" MB2SPK	—	—	50.0	25.0			" "

Chemical/Reagent ID:

HNO_3: MP1834 HCl: — H_2O_2: IS367 IS876 DM 3/1/10 Tube Lot #: ADP9L9162

General Chemistry Analysis
QC Summary Data

prepared
for

Floyd/Snider

Project: Lora Lake Apartments, POS-LLA

ARI JOB NO: QL58

prepared
by

Analytical Resources, Inc.

REPLICATE RESULTS-CONVENTIONALS
QL58-Floyd/Snider

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 03/01/10

Project: Lora Lake Apartments
Event: POS-LLA
Date Sampled: 02/24/10
Date Received: 02/25/10

Analyte	Date	Units	Sample	Replicate(s)	RPD/RSD
ARI ID: QL58C Client ID: CB1022410Comp					
Total Suspended Solids	02/26/10	mg/L	7.5	8.2	8.9%

LAB CONTROL RESULTS-CONVENTIONALS
QL58-Floyd/Snider

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 03/01/10

Project: Lora Lake Apartments
Event: POS-LLA
Date Sampled: NA
Date Received: NA

Analyte	Date/Time	Units	LCS	Spike Added	Recovery
Total Suspended Solids	02/26/10 12:31	mg/L	49.8	50.0	99.6%

METHOD BLANK RESULTS-CONVENTIONALS
QL58-Floyd/Snider

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 03/01/10

Project: Lora Lake Apartments
Event: POS-LLA
Date Sampled: NA
Date Received: NA

Analyte	Date/Time	Units	Blank
Total Suspended Solids	02/26/10 12:31	mg/L	< 1.0 U

General Chemistry Analysis
Sample Data

prepared
for

Floyd/Snider

Project: Lora Lake Apartments, POS-LLA

ARI JOB NO: QL58

prepared
by

Analytical Resources, Inc.

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
Total Suspended Solids by Method EPA 160.2

Data Release Authorized:
Reported: 03/01/10
Date Received: 02/25/10
Page 1 of 1

QC Report No: QL58-Floyd/Snider
Project: Lora Lake Apartments
POS-LLA

Client/ ARI ID	Date Sampled	Matrix	Analysis Date & Batch	RL	Result
CB31A022410Comp QL58A 10-4796	02/24/10	Water	02/26/10 12:31 022610#1	2.7	39.5
CB4857022410Comp QL58B 10-4797	02/24/10	Water	02/26/10 12:31 022610#1	4.0	42.8
CB1022410Comp QL58C 10-4798	02/24/10	Water	02/26/10 12:31 022610#1	1.8	7.5
CB100022410Comp QL58D 10-4799	02/24/10	Water	02/26/10 12:31 022610#1	3.3	42.7

Reported in mg/L

RL-Analytical reporting limit
U-Undetected at reported detection limit

General Chemistry Analysis
Instrument Raw Data

prepared
for

Floyd/Snider

Project: Lora Lake Apartments, POS-LLA

ARI JOB NO: QL58

prepared
by

Analytical Resources, Inc.

W
3-26-10

TOTAL SUSPENDED SOLIDS / VOLATILE SUSPENDED SOLIDS (TSS / TVSS)

DATE: 2/26/2010
ANALYST: CDE 12:31

Instrumentation ***Drying Ovens:*** 12 ***Analytical Balance:*** 1123230597
Muffle Furnace: N/A

make no entries to shaded cells
they are calculated !!

TSS (mg/l) calculated as:
Final dry wt (mg) = (minimum Dry Wt - Tare Wt)*1000
TSS = [(Final Dry Wt)/ ml Sample] * 1000
if dy wt < 1mg, TSS = <1mg / mL sample * 1000
with "<" flag

Loss on ignition (LOI) = TVSS (mg/L) calculated as:
LOI (mg) = Dry wt(mg) -((min ash wt - tare wt) * 1000)
TVSS (mg/L) = LOI / mL sample * 1000
if LOI <1mg, TVSS = <1mg / mL sample * 1000
with "<" flag

LCS source: *Cellulose, MP Biomedicals Lot# 6399J* 0.05 *grams to* 1000 mL = **50** ***mg/L TSS***

SAMPLE ID	DISH #	filtered (mL)	TARE WT (grams)	DRY WT 104C (grams) 1	2	3	4	DryWT (mg)	TSS (mg/L)	ASH WT 550C (grams) 1	2	3	4	LOI (mg)	TVSS (mg/l)
Cal Weight ID			CV-02	CV-02	CV-02	CV-02	CV-02			CV-02	CV-02	CV-02	CV-02		
Date & Time				2/26/10 14:09	2/26/10 15:36										
Cal Wt (g) 10.0000				10.0000	10.0000										
record weights to 4 places				*Cal OK!*	*Cal OK!*										
BLANK		1000	0.1087	0.1088	0.1087	STOP		0.0	**< 1**						
LCS # 547-6		1000	0.1100	0.1599	0.1598	STOP		49.8	**49.8**	99.6%	% Recovery				
QL15 B5		930	0.1074	0.1084	0.1084	STOP		1.0	**1.1**						
QL31 A5		890	0.1075	0.1131	0.1130	STOP		5.5	**6.2**						
QL31 B5		230	0.1091	0.1166	0.1165	STOP		7.4	**32.2**						
QL31 B5 dup		230	0.1075	0.1155	0.1154	STOP		7.9	**34.3**						
								RPD =	*6.3%*					*RPD =*	*NA*
QL49 A2		150	0.1107	0.1304	0.1304	STOP		19.7	**131.3**						
QL58 A1		370	0.1092	0.1239	0.1238	STOP		14.6	**39.5**						
QL58 B1		250	0.1102	0.1210	0.1209	STOP		10.7	**42.8**						
QL58 C1+2		550	0.1075	0.1117	0.1116	STOP		4.1	**7.5**						
QL58 C1+2 dup		550	0.1091	0.1137	0.1136	STOP		4.5	**8.2**						
								RPD =	*8.9%*					*RPD =*	*NA*
QL58 D1		300	0.1108	0.1237	0.1236	STOP		12.8	**42.7**						

SOP TSS-VSS 5.15

TOTAL SUSPENDED SOLIDS / VOLATILE SUSPENDED SOLIDS (TSS / TVSS)

DATE: 2/26/10 1231

ANALYST: CMS

Instrumentation **Drying Ovens:** 12 **Analytical Balance:** 1123230597

Muffle Furnace: N/A

make no entries to shaded cells
they are calculated !!

TSS (mg/l) calculated as:
Final dry wt (mg) = (minimum Dry Wt - Tare Wt)*1000
TSS = [(Final Dry Wt)/ ml Sample] * 1000
if dy wt < 1mg, TSS = <1mg / mL sample * 1000
with "<" flag

Loss on ignition (LOI) = TVSS (mg/L) calculated as:
LOI (mg) = Dry wt(mg) -((min ash wt - tare wt) * 1000)
TVSS (mg/L) = LOI / mL sample * 1000
if LOI <1mg, TVSS = <1mg / mL sample * 1000
with "<" flag

LCS source: *Cellulose, MP Biomedicals Lot# 6399J* 0.0500 grams to 1000 mL = **50** ***mg/L TSS***

SAMPLE ID	DISH #	filtered (mL)	TARE WT (grams)	DRY WT 104C (grams) 1	2	3	4	DryWT (mg)	TSS (mg/L)	ASH WT 550C (grams) 1	2	3	4	LOI (mg)	TVSS (mg/l)
Cal Weight ID			CV-02	CV-02	CV-02	CV-02	CV-02			CV-02	CV-02	CV-02	CV-02		
Date & Time				2/26/10 CMS	2/26/10 CMS										
Cal Wt (g) 10.0000				10.0000	10.0000										
record weights to 4 places				14:09	15:36										
BLANK	P1316	1000	0.1087	0.1088	0.1087										
LCS #547-6	P1317	↓	0.1100	0.1599	0.1598					% Recovery					
QL15 B5	P1318	930	0.1074	0.1084	0.1084										
QL31 A5	P1319	890	0.1075	0.1131	0.1130										
↓ B5	P1320	230	0.1091	0.1166	0.1165										
↓ dp B5	P1321	↓	0.1075	0.1155	0.1154										
QL49 A2	P1322	150	0.1107	0.1304	0.1304										
QL58 A1	P1323	370	0.1092	0.1239	0.1238										
↓ B1	P1324	250	0.1102	0.1210	0.1209										
↓ C1-2	P1325	550	0.1075	0.1117	0.1116										
↓ dp C1-2	P1326	↓	0.1091	0.1137	0.1136										
↓ D1	P1327	300	0.1108	0.1237	0.1236										
				2/26/10 CMS											

QL58B51

Subcontracted Results
Dioxin/Furans 1613(Sub) Analyzed by Frontier Analytical Laboratory

prepared
for

Floyd/Snider

Project: Lora Lake Apartments, POS-LLA

ARI JOB NO: QL58

prepared
by

Analytical Resources, Inc.

Frontier Analytical Laboratory

Sample Tracking Log

FAL Project ID: **6005**

Received on: **03/02/2010** Project Due: **04/05/2010** Storage: **R1**

FAL Sample ID	Dup	Client Project ID	Client Sample ID	Requested Method	Matrix	Sampling Date	Sampling Time	Hold Time Due Date
6005-001-SA	1	QL58	CB31A022410Comp	EPA 1613 D/F	Aqueous	02/24/2010	02:14 pm	02/24/2011
6005-002-SA	1	QL58	CB4857022410Comp	EPA 1613 D/F	Aqueous	02/24/2010	05:38 pm	02/24/2011
6005-003-SA	1	QL58	CB1022410Comp	EPA 1613 D/F	Aqueous	02/24/2010	05:38 am	02/24/2011
6005-004-SA	1	QL58	CB100022410Comp	EPA 1613 D/F	Aqueous	02/24/2010	03:00 pm	02/24/2011

FAL Sample ID	Notes
6005-001-SA	'Sample on hold pending results of QL95 (FAL ID: 6004).' Off Hold 3/12/10. Due Date: 4/5/10
6005-002-SA	'Sample on hold pending results of QL95 (FAL ID: 6004). Off Hold 3/12/10. Due Date: 4/5/10
6005-003-SA	'Sample on hold pending results of QL95 (FAL ID: 6004). Off Hold 3/12/10. Due Date: 4/5/10
6005-004-SA	'Sample on hold pending results of QL95 (FAL ID: 6004). Off Hold 3/12/10. Due Date: 4/5/10

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EPA Method 1613
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 6005-001-MB
Client ID: Method Blank
Matrix: Aqueous
Batch No: X1968

Date Extracted: 03-22-2010
Date Received: NA
Amount: 1.000 L

ICal: pcddfal3-11-18-09
GC Column: DB5
Units: pg/L

Acquired: 03-24-2010
2005 WHO TEQ: 0.00

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.781		-	0.212				
1,2,3,7,8-PeCDD	ND	1.48		-	0.302				
1,2,3,4,7,8-HxCDD	ND	1.70		-	0.328				
1,2,3,6,7,8-HxCDD	ND	2.03		-	0.381	Total TCDD	ND	0.781	
1,2,3,7,8,9-HxCDD	ND	1.85		-	0.351	Total PeCDD	ND	1.48	
1,2,3,4,6,7,8-HpCDD	ND	2.63		-	0.495	Total HxCDD	ND	2.03	
OCDD	ND	4.43		-	1.02	Total HpCDD	ND	2.63	
2,3,7,8-TCDF	ND	0.637		-	0.112				
1,2,3,7,8-PeCDF	ND	1.27		-	0.219				
2,3,4,7,8-PeCDF	ND	1.34		-	0.232				
1,2,3,4,7,8-HxCDF	ND	1.52		-	0.162				
1,2,3,6,7,8-HxCDF	ND	1.59		-	0.167				
2,3,4,6,7,8-HxCDF	ND	1.59		-	0.167				
1,2,3,7,8,9-HxCDF	ND	1.92		-	0.185	Total TCDF	ND	0.637	
1,2,3,4,6,7,8-HpCDF	ND	2.09		-	0.251	Total PeCDF	ND	1.34	
1,2,3,4,7,8,9-HpCDF	ND	2.53		-	0.280	Total HxCDF	ND	1.92	
OCDF	ND	3.83		-	0.451	Total HpCDF	ND	2.53	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	83.6	25.0 - 164	
13C-1,2,3,7,8-PeCDD	64.8	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	76.6	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	75.6	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	63.3	23.0 - 140	
13C-OCDD	56.1	17.0 - 157	
13C-2,3,7,8-TCDF	80.6	24.0 - 169	
13C-1,2,3,7,8-PeCDF	63.8	24.0 - 185	
13C-2,3,4,7,8-PeCDF	62.3	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	71.0	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	68.2	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	71.0	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	66.3	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	59.3	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	58.0	26.0 - 138	
13C-OCDF	50.1	17.0 - 157	

Cleanup Surrogate

37Cl-2,3,7,8-TCDD	93.5	35.0 - 197

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: _____
Date: 3/25/10

Reviewed By: _____
Date: 3/31/10

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EPA Method 1613
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 6005-001-OPR
Client ID: OPR
Matrix: Aqueous
Batch No: X1968

Date Extracted: 03-22-2010
Date Received: NA
Amount: 1.000 L

ICal: pcddfal3-11-18-09
GC Column: DB5
Units: ng/ml

Acquired: 03-24-2010
2005 WHO TEQ: NA

Compound	Conc	QC Limits	Qual
2,3,7,8-TCDD	10.6	6.70 - 15.8	
1,2,3,7,8-PeCDD	49.1	35.0 - 71.0	
1,2,3,4,7,8-HxCDD	50.4	35.0 - 82.0	
1,2,3,6,7,8-HxCDD	48.5	38.0 - 67.0	
1,2,3,7,8,9-HxCDD	46.7	32.0 - 81.0	
1,2,3,4,6,7,8-HpCDD	49.4	35.0 - 70.0	
OCDD	98.8	78.0 - 144	
2,3,7,8-TCDF	9.76	7.50 - 15.8	
1,2,3,7,8-PeCDF	49.3	40.0 - 67.0	
2,3,4,7,8-PeCDF	49.3	34.0 - 80.0	
1,2,3,4,7,8-HxCDF	50.3	36.0 - 67.0	
1,2,3,6,7,8-HxCDF	50.7	42.0 - 65.0	
2,3,4,6,7,8-HxCDF	49.8	35.0 - 78.0	
1,2,3,7,8,9-HxCDF	48.8	39.0 - 65.0	
1,2,3,4,6,7,8-HpCDF	49.0	41.0 - 61.0	
1,2,3,4,7,8,9-HpCDF	48.6	39.0 - 69.0	
OCDF	95.7	63.0 - 170	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	86.2	20.0 - 175	
13C-1,2,3,7,8-PeCDD	64.8	21.0 - 227	
13C-1,2,3,4,7,8-HxCDD	73.4	21.0 - 193	
13C-1,2,3,6,7,8-HxCDD	73.4	25.0 - 163	
13C-1,2,3,4,6,7,8-HpCDD	59.2	26.0 - 166	
13C-OCDD	55.7	13.0 - 198	
13C-2,3,7,8-TCDF	85.3	22.0 - 152	
13C-1,2,3,7,8-PeCDF	62.7	21.0 - 192	
13C-2,3,4,7,8-PeCDF	63.1	13.0 - 328	
13C-1,2,3,4,7,8-HxCDF	68.0	19.0 - 202	
13C-1,2,3,6,7,8-HxCDF	65.8	21.0 - 159	
13C-2,3,4,6,7,8-HxCDF	70.5	22.0 - 176	
13C-1,2,3,7,8,9-HxCDF	64.1	17.0 - 205	
13C-1,2,3,4,6,7,8-HpCDF	56.6	21.0 - 158	
13C-1,2,3,4,7,8,9-HpCDF	54.0	20.0 - 186	
13C-OCDF	50.1	13.0 - 198	

Cleanup Surrogate			
37Cl-2,3,7,8-TCDD	102	31.0 - 191	

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: _____
Date: 3/25/10

Reviewed By: _____
Date: 3/25/10

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EPA Method 1613
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 6005-001-SA
Client ID: CB31A022410Comp
Matrix: Aqueous
Batch No: X1968

Date Extracted: 03-22-2010
Date Received: 03-02-2010
Amount: 0.486 L

ICal: pcddfal3-11-18-09
GC Column: DB5
Units: pg/L

Acquired: 03-24-2010
2005 WHO TEQ: 16.3

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	3.52		-	0.212				
1,2,3,7,8-PeCDD	ND	3.61		-	0.302				
1,2,3,4,7,8-HxCDD	7.11	-	J	0.711	0.328				
1,2,3,6,7,8-HxCDD	17.8	-	J	1.78	0.381	Total TCDD	ND	3.52	
1,2,3,7,8,9-HxCDD	12.8	-	J	1.28	0.351	Total PeCDD	ND	5.74	
1,2,3,4,6,7,8-HpCDD	522	-		5.22	0.495	Total HxCDD	99.3	-	
OCDD	4290	-		1.29	1.02	Total HpCDD	898	-	
2,3,7,8-TCDF	ND	1.39		-	0.112				
1,2,3,7,8-PeCDF	ND	2.44		-	0.219				
2,3,4,7,8-PeCDF	ND	2.59		-	0.232				
1,2,3,4,7,8-HxCDF	20.7	-	J	2.07	0.162				
1,2,3,6,7,8-HxCDF	14.6	-	J	1.46	0.167				
2,3,4,6,7,8-HxCDF	9.09	-	J	0.909	0.167				
1,2,3,7,8,9-HxCDF	ND	3.76		-	0.185	Total TCDF	24.3	-	D,M
1,2,3,4,6,7,8-HpCDF	135	-		1.35	0.251	Total PeCDF	86.8	-	D,M
1,2,3,4,7,8,9-HpCDF	13.6	-	J	0.136	0.280	Total HxCDF	315	-	D,M
OCDF	324	-		0.0972	0.451	Total HpCDF	388	-	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	82.4	25.0 - 164	
13C-1,2,3,7,8-PeCDD	72.8	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	82.1	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	81.0	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	84.2	23.0 - 140	
13C-OCDD	89.7	17.0 - 157	
13C-2,3,7,8-TCDF	81.0	24.0 - 169	
13C-1,2,3,7,8-PeCDF	74.8	24.0 - 185	
13C-2,3,4,7,8-PeCDF	72.3	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	73.5	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	72.3	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	73.5	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	74.9	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	73.8	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	76.9	26.0 - 138	
13C-OCDF	73.0	17.0 - 157	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	85.0	35.0 - 197

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: _____
Date: 3/25/10

Reviewed By: _____
Date: 3/25/10

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EPA Method 1613
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 6005-002-SA
Client ID: CB4857022410Comp
Matrix: Aqueous
Batch No: X1968

Date Extracted: 03-22-2010
Date Received: 03-02-2010
Amount: 0.479 L

ICal: pcddfal3-11-18-09
GC Column: DB5
Units: pg/L

Acquired: 03-24-2010
2005 WHO TEQ: 18.9

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	2.88		-	0.212				
1,2,3,7,8-PeCDD	ND	5.73		-	0.302				
1,2,3,4,7,8-HxCDD	8.14	-	J	0.814	0.328				
1,2,3,6,7,8-HxCDD	19.5	-	J	1.95	0.381	Total TCDD	ND	2.88	
1,2,3,7,8,9-HxCDD	15.2	-	J	1.52	0.351	Total PeCDD	ND	5.73	
1,2,3,4,6,7,8-HpCDD	626	-		6.26	0.495	Total HxCDD	111 *	-	
OCDD	7060	-		2.12	1.02	Total HpCDD	1090	-	
2,3,7,8-TCDF	ND	1.72		-	0.112				
1,2,3,7,8-PeCDF	ND	2.33		-	0.219				
2,3,4,7,8-PeCDF	ND	2.48		-	0.232				
1,2,3,4,7,8-HxCDF	23.8	-	J	2.38	0.162				
1,2,3,6,7,8-HxCDF	13.4	-	J	1.34	0.167				
2,3,4,6,7,8-HxCDF	8.80	-	J	0.880	0.167				
1,2,3,7,8,9-HxCDF	ND	2.79		-	0.185	Total TCDF	28.1	-	D,M
1,2,3,4,6,7,8-HpCDF	140	-		1.40	0.251	Total PeCDF	91.5	-	D,M
1,2,3,4,7,8,9-HpCDF	15.3	-	J	0.153	0.280	Total HxCDF	321	-	D,M
OCDF	346	-		0.104	0.451	Total HpCDF	411	-	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	96.5	25.0 - 164	
13C-1,2,3,7,8-PeCDD	80.8	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	97.0	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	92.3	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	100	23.0 - 140	
13C-OCDD	107	17.0 - 157	
13C-2,3,7,8-TCDF	94.6	24.0 - 169	
13C-1,2,3,7,8-PeCDF	85.3	24.0 - 185	
13C-2,3,4,7,8-PeCDF	80.6	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	85.1	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	82.6	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	85.6	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	87.2	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	84.9	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	91.1	26.0 - 138	
13C-OCDF	87.1	17.0 - 157	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	101	35.0 - 197

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: _____
Date: 3/25/10

Reviewed By: _____
Date: 3/25/10

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EPA Method 1613
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 6005-003-SA
Client ID: CB1022410Comp
Matrix: Aqueous
Batch No: X1968

Date Extracted: 03-22-2010
Date Received: 03-02-2010
Amount: 0.486 L

ICal: pcddfal3-11-18-09
GC Column: DB5
Units: pg/L

Acquired: 03-24-2010
2005 WHO TEQ: 0.279

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	2.74		-	0.212				
1,2,3,7,8-PeCDD	ND	2.31		-	0.302				
1,2,3,4,7,8-HxCDD	ND	3.55		-	0.328				
1,2,3,6,7,8-HxCDD	ND	4.14		-	0.381	Total TCDD	ND	2.74	
1,2,3,7,8,9-HxCDD	ND	3.81		-	0.351	Total PeCDD	ND	2.31	
1,2,3,4,6,7,8-HpCDD	18.7	-	J	0.187	0.495	Total HxCDD	ND	4.14	
OCDD	132	-		0.0396	1.02	Total HpCDD	37.5	-	J
2,3,7,8-TCDF	ND	1.22		-	0.112				
1,2,3,7,8-PeCDF	ND	2.24		-	0.219				
2,3,4,7,8-PeCDF	ND	2.30		-	0.232				
1,2,3,4,7,8-HxCDF	ND	3.70		-	0.162				
1,2,3,6,7,8-HxCDF	ND	3.81		-	0.167				
2,3,4,6,7,8-HxCDF	ND	3.85		-	0.167				
1,2,3,7,8,9-HxCDF	ND	4.16		-	0.185	Total TCDF	ND	1.22	
1,2,3,4,6,7,8-HpCDF	4.88	-	J	0.0488	0.251	Total PeCDF	ND	2.30	
1,2,3,4,7,8,9-HpCDF	ND	1.83		-	0.280	Total HxCDF	ND	4.16	
OCDF	10.7	-	J	0.00321	0.451	Total HpCDF	10.2	-	J

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	93.5	25.0 - 164	
13C-1,2,3,7,8-PeCDD	79.0	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	92.1	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	91.1	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	90.5	23.0 - 140	
13C-OCDD	95.3	17.0 - 157	
13C-2,3,7,8-TCDF	90.5	24.0 - 169	
13C-1,2,3,7,8-PeCDF	85.1	24.0 - 185	
13C-2,3,4,7,8-PeCDF	79.8	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	79.5	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	77.5	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	78.6	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	79.2	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	80.5	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	82.2	26.0 - 138	
13C-OCDF	79.6	17.0 - 157	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	99.5	35.0 - 197

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: _____
Date: 3/25/10

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