Volatile Raw Data
Preparation Log

ARI Job ID: SS83

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Volatile Organics Extraction Bench Sheet

(8260B, 8260B-SIM, 8021, NWTPH-Gx, AK-101, TPH-G, VPH, TCLP-ZHE)

ARI Project No. SSY3 | Client ID/Project | Extraction Date | MeOH Lot No. | Analyst

1st Extraction: | 2nd Extraction: | ff

	Lab ID	Vial No.	Preservative		Method 5035 Sample Weight					Comments
			$NaHSO_3$	CH_3OH	Vial Weight	Tare (from vial)	Sample Weight	Extract Volume	MeOH Spilt Volume	
	MB:									
	LCS:									
	LCSD:									
1	SS83 A	1	—		41.74	31.967	9.773			
2	B	2	—		39.36	31.757	7.603			
3	C	4	/		40.66	31.991	8.609			
4	D	5	—		39.44	31.897	7.543			
5	E	3	—		39.74	31.908	7.832			
6	F	5	/		40.11	31.909	8.201			
7	G	3	—		41.48	31.907	9.573			
8	H	4	—		37.90	31.968	5.932			
9	I	5	/		41.39	31.936	9.454			
10	J	3	—		38.40	31.895	6.505			
11	K	4	—		38.30	31.960	6.340			
12	L	1	/		40.44	31.886	8.554			
13	M	5	—		40.93	31.921	9.009			
14	N	4	—		36.38	31.945	4.435			
15	O	5	/		42.90	31.758	11.142			
16	P	1					5mL			
17	Q	4					↓			
18	Orig	7	—		42.33	32.062	10.268			
19	Orig	6	—		42.31	31.912	10.398			
20										
	Balance ID:									

	Solution ID	Concentration	Amount Spiked	Analyst	Witness
Surrogate:					
Spike:					

SS83 : 080318

321

Volatile Raw Data
Initial Calibration Notes and Raw Data

ARI Job ID: SS83

Analytical Resources, Incorporated
Analytical Chemists and Consultants

VOA Analyst Notes / Corrective Action Log

ARI Project ID: FS ical Client ID: _____

ARI SOP:**404S**(Gas) **410S**(BTEX) **430S**(VPH) **700S**(8260C) **703S**(SIM) **706S**(524.2) **710S**(RSK-175)

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) 5 Curve Date: 3/9/14 Analysis Start Date: 3/9/14

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
ICal acceptable?	YES / NO	CCal acceptable?	YES / NO
Q flag applied?	YES / NO / NA	Q flag applied?	YES / NO / NA
Manual Integrations for ICal?	YES / NO	Manual Integrations for Samples?	Yes /NO
Special Analysis Criteria Met?	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):

all analytes averaged

ICV - carbon disulfide 72%R
VA 74%R

Additional Details on Reverse: Yes / No

Analyst: _____ **Date:** 3/10/14

Reviewer: _____ **Date:** 3/16/14

SS83:00320

Analytical Resources Inc.: Organics Instrument Log

FINN5 Serial No.: 5500-000421A

Date: 3/9/11 Analysis: 8260C Analyst: JP

GC Program: F5 Column No: 821729 Column Type: RTX502-2

Instrument Tune (.U or .CT.): BFB0309 EM Voltage: 1500

Calibration File: 2000309 Curve Date: 2/18/11

IS/SS	Ical/Ccal	LCS/ICV
W671-2	W679-2 W677-2	~~W679~~ W677-3 JP 3/10/11

INTERNAL STANDARD SUMMARY FOR DATABATCH - /chem1/finn5.i/09MAR11.b

	Time	Filename	LabID	ClientID	WT					
1	1159	BFB0309.d	BFB0309	BFB0309	0.00					
2	1310	0010309.d	IC0309	VSTD1	5.00 | 6.43	86225|| 7.44	136001||10.58	125679||13.26	63952|	
3	1353	2000309.d	IC0309	VSTD200	5.00 | 6.44	101537|| 7.46	172637||10.59	176599||13.28	93645|	
4	1427	1500309.d	IC0309	VSTD150	5.00 | 6.45	98723|| 7.46	156465||10.60	146811||13.28	76483|	
5	1455	1000309.d	IC0309	VSTD100	5.00 | 6.43	99481|| 7.44	160423||10.58	157496||13 26	85432|	
6	1522	0500309.d	IC0309	VSTD50	5.00 | 6.44	91022|| 7.45	153104||10.59	143720||13.28	77398|	
7	1550	0100309.d	IC0309	VSTD10	5.00 | 6.45	96215|| 7.46	152421||10.60	150937||13.28	82958|	
8	1618	0050309.d	IC0309	VSTD5	5.00 | 6.44	88818|| 7.45	146219||10.58	137327||13.27	75310|	
9	1651	0020309.d	IC0309	VSTD2	5.00 | 6.44	87996|| 7.45	142924||10.59	133027||13.28	72018|	
10	1736	ICV0309.d	ICV0309	ICV0309	5.00 | 6.45	90677|| 7.46	141416||10.59	135731||13.28	74813|	

JP 3/10/11

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.

SS83 : 00321

Data File: /chem1/finn5.i/09MAR11.b/BFB0309.d

Date : 09-MAR-2011 11:59

Client ID: BFB0309

Instrument: finn5.i

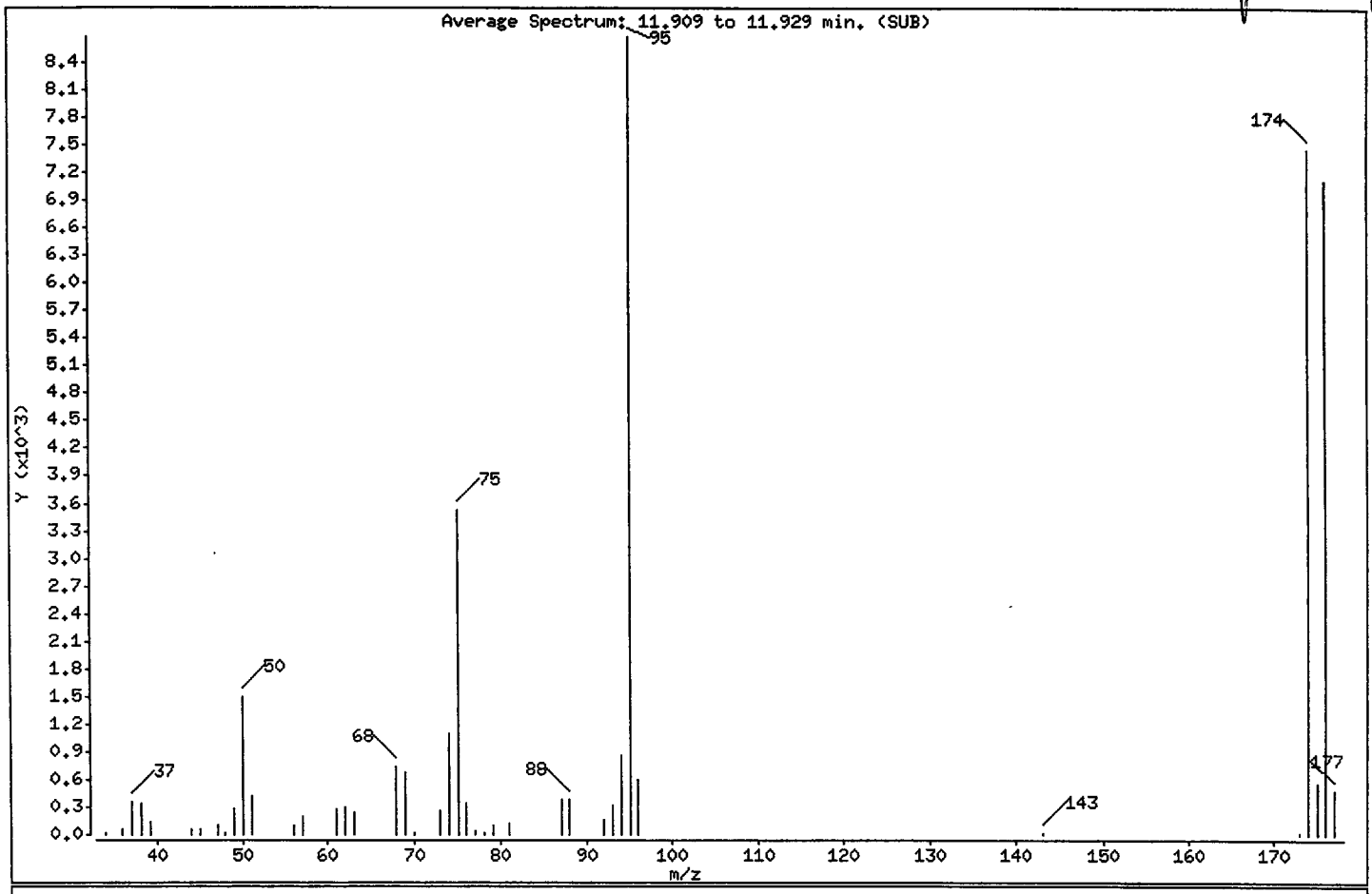
Sample Info: BFB0309,BFB0309,,1,09MAR11,,

Operator: PB

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	17.16
75	30.00 - 66.00% of mass 95	40.66
96	5.00 - 9.00% of mass 95	6.87
173	Less than 2.00% of mass 174	0.24 (0.28)
174	50.00 - 101.00% of mass 95	85.99
175	4.00 - 9.00% of mass 174	6.41 (7.45)
176	93.00 - 101.00% of mass 174	82.17 (95.56)
177	5.00 - 9.00% of mass 176	5.44 (6.62)

Data File: /chem1/finn5.i/09MAR11.b/BFB0309.d

Date : 09-MAR-2011 11:59

Client ID: BFB0309 Instrument: finn5.i

Sample Info: BFB0309,BFB0309,,1,09MAR11,,

Operator: PB

Column phase: RTX502.2 Column diameter: 0.18

Data File: BFB0309.d
Spectrum: Average Spectrum: 11.909 to 11.929 min. (SUB)
Location of Maximum: 95.00
Number of points: 41

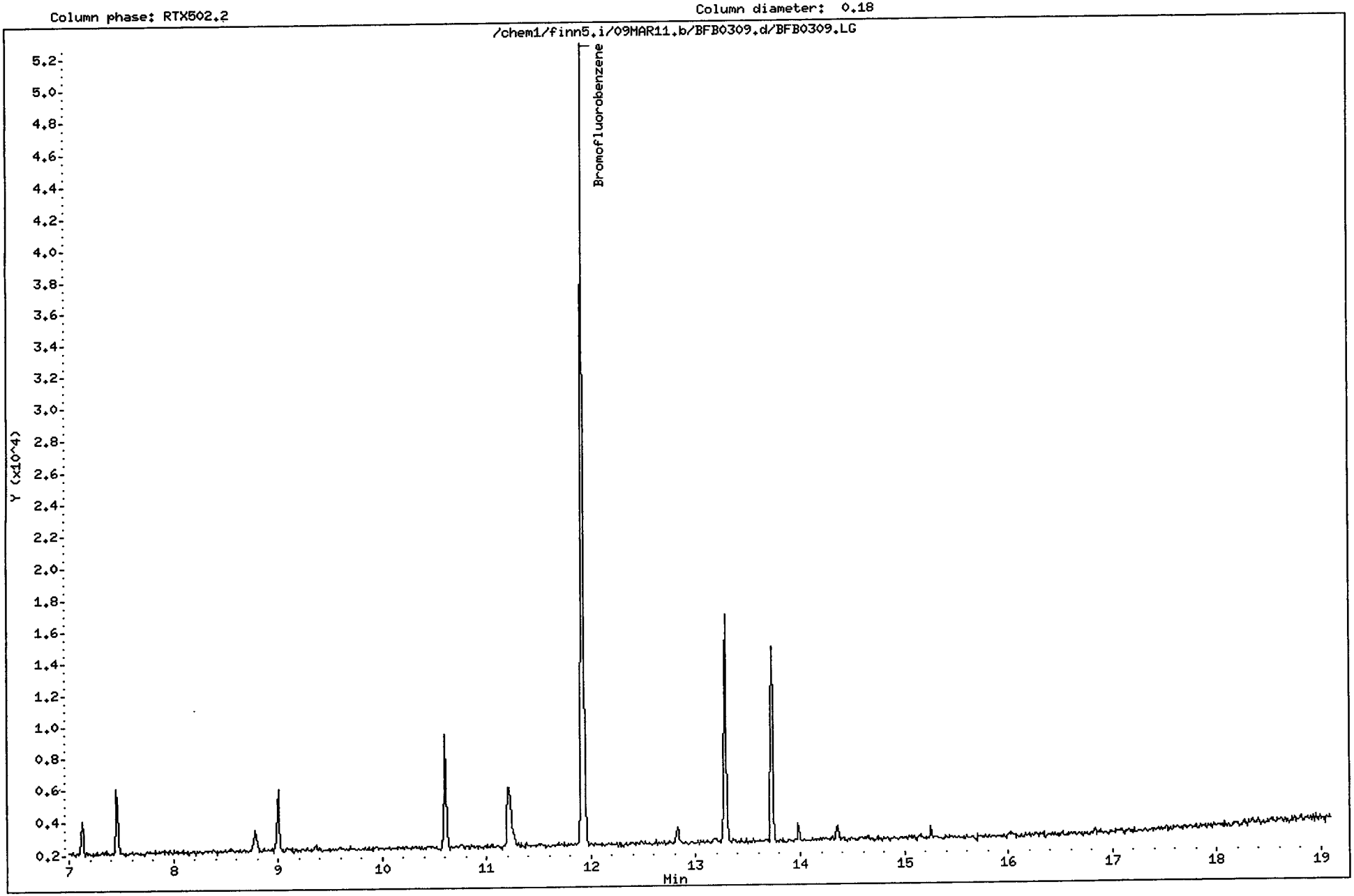
m/z	Y	m/z	Y	m/z	Y	m/z	Y
34.00	16	51.00	417	75.00	3528	95.00	8677
36.00	66	56.00	92	76.00	336	96.00	596
37.00	362	57.00	192	77.00	43	143.00	17
38.00	349	61.00	277	78.00	24	173.00	21
39.00	131	62.00	296	79.00	106	174.00	7461
44.00	68	63.00	245	81.00	127	175.00	556
45.00	60	68.00	733	87.00	370	176.00	7130
47.00	99	69.00	671	88.00	383	177.00	472
48.00	18	70.00	23	92.00	161		
49.00	283	73.00	260	93.00	318		
50.00	1489	74.00	1102	94.00	867		

Data File: /chem1/finn5.i/09MAR11.b/BFB0309.d
Date : 09-MAR-2011 11:59
Client ID: BFB0309
Sample Info: BFB0309,BFB0309,,1,09MAR11,,

Instrument: finn5.i

Operator: PB
Column diameter: 0.18

Column phase: RTX502.2



Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAR-2011 13:10
End Cal Date : 09-MAR-2011 16:51
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/finn5.i/09MAR11.b/s8260b.m
Cal Date : 10-Mar-2011 09:23 patrickb
Curve Type : Average

Calibration File Names:
Level 1: /chem1/finn5.i/09MAR11.b/0010309.d
Level 2: /chem1/finn5.i/09MAR11.b/0020309.d
Level 3: /chem1/finn5.i/09MAR11.b/0050309.d
Level 4: /chem1/finn5.i/09MAR11.b/0100309.d
Level 5: /chem1/finn5.i/09MAR11.b/0500309.d
Level 6: /chem1/finn5.i/09MAR11.b/1000309.d
Level 7: /chem1/finn5.i/09MAR11.b/1500309.d
Level 8: /chem1/finn5.i/09MAR11.b/2000309.d

Compound	1.000 Level 1	2.000 Level 2	5.000 Level 3	10.000 Level 4	50.000 Level 5	100.000 Level 6	RRF	% RSD	
	150.000 Level 7	200.000 Level 8							
1 Dichlorodifluoromethane	0.53523	0.47587	0.52782	0.49078	0.54400	0.51207			
	0.51704	0.45294					0.50697	6.184	
2 Chloromethane	1.17135	1.00630	0.91918	0.81967	0.82465	0.79949			
	0.83413	0.69983					0.88433	16.552	
3 Vinyl Chloride	1.35286	1.37336	1.20955	1.05368	1.15114	0.97031			
	0.91453	0.78096					1.10080	19.068	
4 Bromomethane	0.41867	0.39036	0.30140	0.33207	0.36243	0.42781			
	0.45127	0.37029					0.38179	13.215	
181 Ethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
5 Chloroethane	0.77414	0.67418	0.93303	0.86936	0.68851	0.67114			
	0.66764	0.58826					0.73328	15.869	

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAR-2011 13:10
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Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/finn5.i/09MAR11.b/s8260b.m
Cal Date : 10-Mar-2011 09:23 patrickb
Curve Type : Average

Compound	1.000 Level 1	2.000 Level 2	5.000 Level 3	10.000 Level 4	50.000 Level 5	100.000 Level 6	150.000 Level 7	200.000 Level 8	RRF	% RSD
6 Trichlorofluoromethane	1.03044	1.04635	1.04956	1.02598	0.98525	0.95904	0.99422	0.89131	0.99777	5.345
7 Acrolein	+++++	0.17342	0.16666	0.15958	0.15736	0.14903	0.14691	0.12545	0.15406	10.158
8 112Trichloro122Trifluoroethan	0.77066	0.87191	0.87190	0.82066	0.77893	0.75244	0.78017	0.70662	0.79416	7.245
9 Acetone	0.28020	0.28115	0.25997	0.23233	0.21633	0.20055	0.19373	0.16073	0.22812	19.020
10 1,1-Dichloroethene	0.49058	0.58582	0.57984	0.58577	0.54186	0.54607	0.56964	0.52150	0.55263	6.196
11 Bromoethane	0.41461	0.43553	0.46184	0.43205	0.44957	0.43821	0.43972	0.40094	0.43406	4.391
12 Iodomethane	0.56886	0.56537	0.56475	0.44775	0.57467	0.52082	0.48638	0.40322	0.51648	12.532
13 Methylene Chloride	+++++	0.71253	0.70369	0.68201	0.65543	0.63904	0.64777	0.58191	0.66034	6.733
14 Acrylonitrile	+++++	0.25314	0.27067	0.27132	0.25741	0.25012	0.25492	0.22346	0.25443	6.292

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Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/finn5.i/09MAR11.b/s8260b.m
Cal Date : 10-Mar-2011 09:23 patrickb
Curve Type : Average

Compound	1.000 Level 1	2.000 Level 2	5.000 Level 3	10.000 Level 4	50.000 Level 5	100.000 Level 6	RRF	% RSD	
	150.000 Level 7	200.000 Level 8							
16 Methyl tert-Butyl Ether	2.40070	3.02741	3.02056	2.96612	2.89015	2.80346			
	2.55616	2.05477					2.71491	12.854	
15 Carbon Disulfide	2.20586	2.25550	2.20597	2.10243	2.11949	2.06203			
	2.04383	1.72571					2 09010	7.901	
17 Trans-1,2-Dichloroethene	0.59206	0.69321	0.65325	0.64881	0.62059	0.62898			
	0.65812	0.60153					0.63707	5.179	
18 Vinyl Acetate	1.09423	1.32080	1.25369	1.24549	1.24888	1.26993			
	1.33959	1.13758					1.23877	6.779	
19 1,1-Dichloroethane	1.11743	1.17392	1.20437	1.16281	1.17389	1.14750			
	1.19490	1.08678					1.15770	3.404	
179 Hexane	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
20 2-Butanone	0.27509	0.35382	0.36173	0.35149	0.34115	0.33310			
	0.33437	0.28446					0.32940	9.787	
21 2,2-Dichloropropane	0.73123	0.77248	0.76437	0.75929	0.78636	0.79329			
	0.82581	0.73847					0.77141	3.968	
22 Cis-1,2-Dichloroethene	0.59553	0.71452	0.69738	0.70753	0.67184	0.67571			
	0.70442	0.63855					0.67569	6.034	

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Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/finn5.i/09MAR11.b/s8260b.m
Cal Date : 10-Mar-2011 09:23 patrickb
Curve Type : Average

Compound	1.000 Level 1	2.000 Level 2	5.000 Level 3	10.000 Level 4	50.000 Level 5	100.000 Level 6	RRF	% RSD	
	150.000 Level 7	200.000 Level 8							
24 Chloroform	1.00841	1.14920	1.09888	1.10040	1.07512	1.08171			
	1.09174	1.01120					1.07708	4.371	
26 Bromochloromethane	0.29458	0.37019	0.36974	0.35395	0.36020	0.35894			
	0.37415	0.34676					0.35356	7.219	
27 1,1,1-Trichloroethane	0.75326	0.82958	0.81932	0.83750	0.84951	0.85724			
	0.88119	0.80711					0.82934	4.630	
182 1-Butanol	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
29 1,1-Dichloropropene	0.51213	0.56236	0.53495	0.54313	0.52266	0.54670			
	0.58340	0.50139					0.53834	4.970	
30 Carbon Tetrachloride	0.49044	0.51776	0.49501	0.48888	0.47346	0.48767			
	0.51710	0.44854					0.48986	4.584	
32 1,2-Dichloroethane	0.40956	0.45986	0.47053	0.47198	0.43724	0.44810			
	0.45986	0.39620					0.44417	6.324	
33 Benzene	1.45477	1.52599	1.50644	1.53486	1.43608	1.42150			
	1.32720	1.03534					1.40527	11.668	
180 Isooctane	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-

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Start Cal Date : 09-MAR-2011 13:10
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Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/finn5.i/09MAR11.b/s8260b.m
Cal Date : 10-Mar-2011 09:23 patrickb
Curve Type : Average

Compound	1.000 Level 1	2.000 Level 2	5.000 Level 3	10.000 Level 4	50.000 Level 5	100.000 Level 6	RRF	% RSD	
	150.000 Level 7	200.000 Level 8							
35 Trichloroethene	0.37720	0.39916	0.41465	0.42058	0.40271	0.42683			
	0.45608	0.40048					0.41221	5.680	
36 1,2-Dichloropropane	0.40698	0.44044	0.44064	0.46047	0.43829	0.45519			
	0.47592	0.41372					0.44146	5.213	
38 1,4-Dioxane	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
37 Bromodichloromethane	0.47279	0.51513	0.49590	0.50515	0.49859	0.51442			
	0.53628	0.46377					0.50025	4.689	
39 Dibromomethane	0.23529	0.27672	0.26864	0.27877	0.26017	0.26370			
	0.27220	0.23774					0.26165	6.384	
40 2-Chloroethyl Vinyl Ether	+++++	+++++	0.07591	0.09054	0.08690	0.09974			
	0.11618	0.10132					0.09510	14.576	
41 4-Methyl-2-Pentanone	0.11698	0.16810	0.16689	0.17938	0.16773	0.17205			
	0.17429	0.13745					0.16036	13.448	
42 Cis 1,3-dichloropropene	0.52205	0.54714	0.56183	0.58181	0.59909	0.63849			
	0.67832	0.58076					0.58869	8.523	
28 Cyclohexane	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-

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Start Cal Date : 09-MAR-2011 13:10
End Cal Date : 09-MAR-2011 16:51
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/finn5.i/09MAR11.b/s8260b.m
Cal Date : 10-Mar-2011 09:23 patrickb
Curve Type : Average

Compound	1.000 Level 1	2.000 Level 2	5.000 Level 3	10.000 Level 4	50.000 Level 5	100.000 Level 6	RRF	% RSD
	150.000 Level 7	200.000 Level 8						
44 Toluene	0.83896	0.92427	0.88087	0.92418	0.88292	0.92966		
	0.97385	0.81366					0.89605	5.848
45 Trans 1,3-Dichloropropene	0.43382	0.47105	0.46677	0.48920	0.50028	0.54209		
	0.57781	0.50203					0.49788	9.057
46 2-Hexanone	0.26464	0.40638	0.40253	0.41432	0.38239	0.32059		
	0.28035	+++++					0.35303	17.939
47 1,1,2-Trichloroethane	0.27684	0.35508	0.34284	0.34520	0.32447	0.34145		
	0.35544	0.31225					0.33170	8.019
48 1,3-Dichloropropane	0.55101	0.66979	0.66760	0.64103	0.65035	0.64617		
	0.70584	0.55626					0.63601	8.599
49 Tetrachloroethene	0.45553	0.47340	0.45592	0.44668	0.44664	0.45844		
	0.52074	0.43268					0.46125	5.793
50 Chlorodibromomethane	0.44996	0.47716	0.43895	0.43180	0.45293	0.46082		
	0.50841	0.40922					0.45366	6.605
51 1,2-Dibromoethane	0.31838	0.39392	0.37964	0.39247	0.38337	0.40418		
	0.42793	0.37363					0.38419	8.196
53 Chlorobenzene	1.00613	1.13079	1.06469	1.04852	1.02307	1.03784		
	1.11382	0.84608					1.03387	8.426

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INITIAL CALIBRATION DATA

Start Cal Date : 09-MAR-2011 13:10
End Cal Date : 09-MAR-2011 16:51
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/finn5.i/09MAR11.b/s8260b.m
Cal Date : 10-Mar-2011 09:23 patrickb
Curve Type : Average

Compound	1.000 Level 1	2.000 Level 2	5.000 Level 3	10.000 Level 4	50.000 Level 5	100.000 Level 6	RRF	% RSD
	150.000 Level 7	200.000 Level 8						
55 1,1,1,2-Tetrachloroethane	0.37556	0.40481	0.38011	0.37714	0.37183	0.38264	0.38390	5.626
	0.42481	0.35428						
54 Ethyl Benzene	1.60250	1.80866	1.70957	1.69743	1.67715	1.62301	1.58744	14.141
	1.50391	1.07729						
56 m,p-xylene	0.63734	0.68351	0.66433	0.65900	0.65089	0.66834	0.64427	8.797
	0.68162	0.50913						
57 o-Xylene	0.60591	0.67956	0.64889	0.65875	0.66543	0.68725	0.66938	7.174
	0.77042	0.63885						
58 Styrene	0.98823	1.14187	1.09673	1.09281	1.06252	1.10602	1.06840	8.366
	1.16776	0.89126						
59 Isopropyl Benzene	3.04682	3.23600	3.09653	3.06095	3.13642	3.06754	2.97240	12.046
	3.03402	2.10094						
60 Bromoform	0.49959	0.60957	0.58585	0.57403	0.58772	0.61565	0.59084	9.859
	0.70300	0.55131						
61 1,1,2,2-Tetrachloroethane	0.99762	1.10944	1.02669	1.03414	1.00885	1.00631	1.01261	8.262
	1.08721	0.83063						
63 1,2,3-Trichloropropane	+++++	0.23779	0.25654	0.25380	0.24188	0.24395	0.24426	7.713
	0.26758	0.20825						

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAR-2011 13:10
End Cal Date : 09-MAR-2011 16:51
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/finn5.i/09MAR11.b/s8260b.m
Cal Date : 10-Mar-2011 09:23 patrickb
Curve Type : Average

Compound	1.000 Level 1	2.000 Level 2	5.000 Level 3	10.000 Level 4	50.000 Level 5	100.000 Level 6	RRF	% RSD
	150.000 Level 7	200.000 Level 8						
65 Trans-1,4-Dichloro 2-Butene	+++++	0.27771	0.27447	0.26242	0.26015	0.26505		
	0.28908	0.21694					0.26369	8.701
66 N-Propyl Benzene	3.60583	3.69074	3.59155	3.52365	3.56601	3.29296		
	3.06576	2.11089					3.30593	15.844
67 Bromobenzene	0.87800	0.93102	0.89948	0.90612	0.88318	0.92800		
	1.06682	0.87792					0.92132	6.770
68 1,3,5-Trimethyl Benzene	2.42447	2.45564	2.34776	2.36849	2.44125	2.50788		
	2.55326	1.85747					2.36953	9.179
69 2-Chloro Toluene	2.38147	2.43585	2.42730	2.38560	2.20254	2.30108		
	2.39741	1.75692					2.28602	9.934
70 4-Chloro Toluene	2.46748	2.71113	2.39742	2.39941	2.40075	2.34936		
	2.43314	1.71381					2.35906	12.016
71 T-Butyl Benzene	2.25951	2.40218	2.23622	2.25072	2.25241	2.34894		
	2.55034	1.89331					2.27420	8.243
72 1,2,4-Trimethylbenzene	2.40493	2.47369	2.43673	2.41496	2.42983	2.47252		
	2.57232	1.82269					2.37846	9.698
73 S-Butyl Benzene	3.31264	3.42519	3.31895	3.35230	3.34691	3.25976		
	3.13007	2.22012					3.17074	12.412

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAR-2011 13:10
End Cal Date : 09-MAR-2011 16:51
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/finn5.i/09MAR11.b/s8260b.m
Cal Date : 10-Mar-2011 09:23 patrickb
Curve Type : Average

Compound	1.000 Level 1	2.000 Level 2	5.000 Level 3	10.000 Level 4	50.000 Level 5	100.000 Level 6	RRF	% RSD	
	150.000 Level 7	200.000 Level 8							
74 4-Isopropyl Toluene	2.49484	2.58130	2.49781	2.51694	2.56981	2.63222	2.48513	9.357	
	2.65887	1.92924							
75 1,3-Dichlorobenzene	1.63091	1.70027	1.57775	1.57586	1.55664	1.61139	1.61648	7.062	
	1.83468	1.44436							
64 Cyclohexanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
	+++++	+++++							
77 1,4-Dichlorobenzene	1.69815	1.71138	1.58810	1.55078	1.52424	1.59149	1.60925	8.022	
	1.81335	1.39652							
178 1,2,3-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
	+++++	+++++							
78 N-Butyl Benzene	2.55895	2.52610	2.44536	2.50530	2.55761	2.62070	2.45104	10.706	
	2.57971	1.81462							
80 1,2-Dichlorobenzene	1.53162	1.62633	1.51706	1.50793	1.44828	1.49814	1.51503	7.231	
	1.67682	1.31407							
81 1,2-Dibromo 3-Chloropropane	+++++	0.21036	0.19705	0.19425	0.17659	0.17286	0.18132	13.354	
	0.18330	0.13483							
82 1,2,4-Trichlorobenzene	1.01873	1.14346	1.08857	1.08440	1.06403	1.07838	1.08110	6.833	
	1.20809	0.96309							

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAR-2011 13:10
End Cal Date : 09-MAR-2011 16:51
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/finn5.i/09MAR11.b/s8260b.m
Cal Date : 10-Mar-2011 09:23 patrickb
Curve Type : Average

Compound	1.000 Level 1	2.000 Level 2	5.000 Level 3	10.000 Level 4	50.000 Level 5	100.000 Level 6	RRF	% RSD
	150.000 Level 7	200.000 Level 8						
83 Hexachloro 1,3-Butadiene	0.63016	0.68559	0.61639	0.65431	0.58057	0.59434		
	0.66518	0.54264					0.62115	7.655
84 Naphthalene	+++++	2.73473	2.61931	2.68304	2.41617	2.31914		
	2.30600	1.60565					2.38344	16.113
85 1,2,3-Trichlorobenzene	+++++	1.21116	1.12256	1.13955	1.02216	1.01033		
	1.10350	0.85154					1.06583	10.975
$ 25 Dibromofluoromethane	0.56885	0.60719	0.62101	0.60356	0.60412	0.59082		
	0.54773	0.61139					0.59433	4.113
$ 31 d4-1,2-Dichloroethane	0.50800	0.57025	0.58680	0.59655	0.56674	0.53109		
	0.47562	0.56917					0.55053	7.593
$ 43 d8-Toluene	1.11271	1.12014	1.12007	1.14875	1.12146	1.14232		
	1.13479	1.14211					1.13029	1.177
$ 62 4-Bromofluorobenzene	0.49187	0.51771	0.51921	0.52890	0.51819	0.51697		
	0.50115	0.51182					0.51323	2.263
$ 79 d4-1,2-Dichlorobenzene	0.87140	0.88318	0.88039	0.88506	0.90035	0.90133		
	0.88337	0.89878					0.88798	1.228

MANUAL INTEGRATION SUMMARY FOR DATABATCH - /chem1/finn5.i/09MAR11.b

ARI Job No.: BFB0 Method: bfb8260.m Instrument: finn5.i Date: 09-MAR-2011

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1159	BFB0309.d	BFB0309	BFB0309	1	NO MANUAL INTEGRATION
1310	0010309.d	IC0309	VSTD1	1	Bromomethane, Chloroethane, Iodomethane, 2-Chloroethyl Vinyl Ether, 2-Hexanone, 1,1,2,2-Tetrachloroethane,
1353	2000309.d	IC0309	VSTD200	1	NO MANUAL INTEGRATION
1427	1500309.d	IC0309	VSTD150	1	NO MANUAL INTEGRATION
1455	1000309.d	IC0309	VSTD100	1	NO MANUAL INTEGRATION
1522	0500309.d	IC0309	VSTD50	1	NO MANUAL INTEGRATION
1550	0100309.d	IC0309	VSTD10	1	NO MANUAL INTEGRATION
1618	0050309.d	IC0309	VSTD5	1	2-Hexanone,
1651	0020309.d	IC0309	VSTD2	1	Chloroethane, 2-Hexanone, Trans-1,4-Dichloro 2-Butene,
1736	ICV0309.d	ICV0309	ICV0309	1	NO MANUAL INTEGRATION

Report Date : 10-Mar-2011 09:37

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem1/finn5.i/09MAR11.b/s8260b.m
Batch File: /chem1/finn5.i/09MAR11.b
Inst ID: finn5.i

ID:	RT01	RT02	RT03	RT04	RT05	RT06	RT07	RT08
FILENAME:	0010309	2000309	1500309	1000309	0500309	0100309	0050309	0020309
INJ.DATE:	09-MAR-2011	09-MAR-2011	09-MAR-2011	09-MAR-2011	09-MAR-2011	09-MAR-2011	09-MAR-2011	09-MAR-2011
INJ.TIME:	13:10	13:53	14:27	14:55	15:22	15:50	16:18	16:51

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	RT08	EXPEC RT	RT WINDOW	AVG RT	STD DEV
1 Dichlorodifluoromethan	2.874	2.884	2.894	2.874	2.884	2.894	2.884	2.894	2.874	2.617-3.132	2.886	0.008
2 Chloromethane	3.166	3.176	3.186	3.156	3.176	3.176	3.176	3.176	3.166	2.908-3.423	3.173	0.009
3 Vinyl Chloride	3.276	3.276	3.276	3.266	3.276	3.286	3.276	3.286	3.276	3.019-3.534	3.278	0.006
4 Bromomethane	3.749	3.739	3.749	3.739	3.759	3.759	3.749	3.759	3.749	3.491-4.006	3.750	0.008
181 Ethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.500	4.235-4.765	+++++	+++++
5 Chloroethane	3.809	3.809	3.819	3.809	3.829	3.829	3.819	3.829	3.809	3.551-4.067	3.819	0.009
6 Trichlorofluoromethane	4.070	4.070	4.080	4.060	4.080	4.080	4.070	4.080	4.070	3.812-4.328	4.074	0.007
7 Acrolein	4.452	4.472	4.472	4.452	4.462	4.472	4.462	4.472	4.452	4.194-4.710	4.465	0.009
8 112Trichloro122Trifluo	4.462	4.472	4.472	4.462	4.472	4.482	4.472	4.482	4.462	4.205-4.720	4.472	0.008
9 Acetone	4.502	4.522	4.533	4.502	4.522	4.522	4.512	4.522	4.502	4.245-4.760	4.517	0.011
10 1,1-Dichloroethene	4.653	4.663	4.673	4.653	4.673	4.673	4.663	4.673	4.653	4.395-4.911	4.666	0.009
11 Bromoethane	4.874	4.884	4.884	4.864	4.884	4.884	4.874	4.884	4.874	4.616-5.132	4.879	0.008
12 Iodomethane	4.965	4.975	4.985	4.965	4.985	4.985	4.975	4.985	4.965	4.707-5.222	4.977	0.009
13 Methylene Chloride	5.085	5.095	5.105	5.085	5.095	5.105	5.095	5.095	5.085	4.828-5.343	5.095	0.008
14 Acrylonitrile	5.166	5.186	5.196	5.176	5.186	5.196	5.176	5.186	5.166	4.908-5.423	5.183	0.010
16 Methyl tert-Butyl Ethe	5.216	5.236	5.236	5.216	5.226	5.236	5.226	5.226	5.216	4.958-5.474	5.227	0.008
15 Carbon Disulfide	5.176	5.186	5.196	5.176	5.196	5.196	5.186	5.196	5.176	4.918-5.433	5.188	0.009

Reviewer 1 ___Ilh___ Date: 3/10/11
Reviewer 2 ___[signature]___ Date: 3/11/11

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem1/finn5.i/09MAR11.b/s8260b.m
Batch File: /chem1/finn5.i/09MAR11.b
Inst ID: finn5.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	RT08	EXPEC RT	RT WINDOW	AVG RT	STD DEV
17 Trans-1,2-Dichloroethe	5.367	5.377	5.387	5.367	5.377	5.387	5.377	5.377	5.367	5.109-5.624	5.377	0.008
18 Vinyl Acetate	5.688	5.708	5.708	5.688	5.708	5.708	5.698	5.708	5.688	5.431-5.946	5.702	0.009
19 1,1-Dichloroethane	5.739	5.759	5.759	5.739	5.759	5.759	5.749	5.759	5.739	5.481-5.996	5.752	0.009
179 Hexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.990	5.725-6.255	+++++	+++++
20 2-Butanone	6.090	6.110	6.110	6.090	6.100	6.110	6.100	6.110	6.090	5.832-6.348	6.103	0.009
21 2,2-Dichloropropane	6.261	6.271	6.281	6.261	6.271	6.281	6.271	6.281	6.261	6.003-6.519	6.272	0.008
22 Cis-1,2-Dichloroethene	6.301	6.311	6.321	6.301	6.311	6.321	6.311	6.311	6.301	6.044-6.559	6.311	0.008
* 23 Pentafluorobenzene	6.432	6.442	6.452	6.432	6.442	6.452	6.442	6.442	6.432	6.175-6.689	6.442	0.008
24 Chloroform	6.442	6.462	6.462	6.442	6.462	6.462	6.452	6.462	6.442	6.185-6.699	6.456	0.009
26 Bromochloromethane	6.603	6.623	6.623	6.603	6.623	6.623	6.613	6.623	6.603	6.345-6.860	6.617	0.009
$ 25 Dibromofluoromethane	6.643	6.663	6.663	6.643	6.653	6.663	6.653	6.653	6.643	6.386-6.900	6.654	0.008
27 1,1,1-Trichloroethane	6.834	6.844	6.854	6.834	6.844	6.854	6.844	6.844	6.834	6.577-7.091	6.844	0.008
182 1-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.030	7.765-8.295	+++++	+++++
29 1,1-Dichloropropene	6.975	6.985	6.995	6.975	6.985	6.995	6.985	6.985	6.975	6.677-7.273	6.985	0.008
$ 31 d4-1,2-Dichloroethane	7.105	7.125	7.125	7.105	7.115	7.125	7.115	7.115	7.105	6.848-7.363	7.117	0.008
30 Carbon Tetrachloride	7.085	7.105	7.105	7.085	7.105	7.105	7.095	7.105	7.085	6.787-7.383	7.099	0.009
32 1,2-Dichloroethane	7.196	7.206	7.216	7.196	7.206	7.216	7.196	7.206	7.196	6.898-7.494	7.205	0.008
33 Benzene	7.236	7.256	7.256	7.236	7.256	7.256	7.246	7.256	7.236	6.938-7.534	7.250	0.009
180 Isooctane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.687	6.422-6.952	+++++	+++++
* 34 1,4-Difluorobenzene	7.437	7.457	7.457	7.437	7.447	7.457	7.447	7.447	7.437	7.139-7.734	7.448	0.008
35 Trichloroethene	7.799	7.819	7.819	7.799	7.819	7.819	7.809	7.819	7.799	7.501-8.096	7.813	0.009
36 1,2-Dichloropropane	7.970	7.980	7.990	7.970	7.980	7.990	7.970	7.980	7.970	7.672-8.267	7.978	0.008

Report Date : 10-Mar-2011 09:37

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem1/finn5.i/09MAR11.b/s8260b.m
Batch File: /chem1/finn5.i/09MAR11.b
Inst ID: finn5.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	RT08	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	38 1,4-Dioxane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.887	8.622-9.152	+++++	+++++
	37 Bromodichloromethane	8.201	8.221	8.221	8.201	8.211	8.221	8.211	8.211	8.201	7.903-8.498	8.212	0.008
	39 Dibromomethane	8.261	8.281	8.291	8.271	8.281	8.281	8.271	8.281	8.261	7.964-8.558	8.277	0.009
	40 2-Chloroethyl Vinyl Et	8.422	8.442	8.442	8.422	8.432	8.442	8.432	8.432	8.422	8.124-8.719	8.433	0.008
	41 4-Methyl-2-Pentanone	8.462	8.482	8.482	8.462	8.472	8.482	8.472	8.472	8.462	8.165-8.760	8.473	0.008
	42 Cis 1,3-dichloropropen	8.703	8.723	8.723	8.703	8.723	8.723	8.713	8.723	8.703	8.406-9.001	8.717	0.009
	28 Cyclohexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.337	7.072-7.602	+++++	+++++
$	43 d8-Toluene	8.985	8.995	9.005	8.975	8.995	9.005	8.985	8.995	8.985	8.687-9.282	8.992	0.010
	44 Toluene	9.065	9.085	9.085	9.065	9.075	9.085	9.075	9.075	9.065	8.768-9.363	9.076	0.008
	45 Trans 1,3-Dichloroprop	9.196	9.216	9.216	9.196	9.206	9.216	9.206	9.216	9.196	8.898-9.493	9.208	0.009
	46 2-Hexanone	9.336	9.357	9.357	9.336	9.346	9.357	9.346	9.357	9.336	8.913-9.760	9.349	0.009
	47 1,1,2-Trichloroethane	9.377	9.397	9.397	9.377	9.387	9.397	9.387	9.397	9.377	9.079-9.674	9.389	0.009
	48 1,3-Dichloropropane	9.638	9.658	9.658	9.638	9.648	9.658	9.648	9.648	9.638	9.214-10.061	9.649	0.008
	49 Tetrachloroethene	9.748	9.769	9.769	9.748	9.769	9.769	9.759	9.769	9.748	9.325-10.172	9.762	0.009
	50 Chlorodibromomethane	9.960	9.980	9.980	9.960	9.970	9.980	9.970	9.970	9.960	9.536-10.383	9.971	0.008
	51 1,2-Dibromoethane	10.181	10.201	10.201	10.181	10.191	10.201	10.191	10.201	10.181	9.883-10.478	10.193	0.009
*	52 d5-Chlorobenzene	10.583	10.593	10.603	10.583	10.593	10.603	10.583	10.593	10.583	10.159-11.006	10.591	0.008
	53 Chlorobenzene	10.623	10.643	10.643	10.623	10.633	10.643	10.633	10.633	10.623	10.199-11.046	10.634	0.008
	55 1,1,1,2-Tetrachloroeth	10.643	10.663	10.673	10.653	10.663	10.663	10.653	10.663	10.643	10.219-11.066	10.659	0.009
	54 Ethyl Benzene	10.653	10.673	10.673	10.653	10.673	10.673	10.663	10.673	10.653	10.230-11.076	10.667	0.009
	56 m,p-xylene	10.733	10.753	10.753	10.733	10.753	10.753	10.743	10.753	10.733	10.310-11.157	10.747	0.009
	57 o-Xylene	11.226	11.246	11.246	11.226	11.236	11.246	11.236	11.236	11.226	10.802-11.649	11.237	0.008
	58 Styrene	11.256	11.276	11.276	11.256	11.266	11.276	11.266	11.266	11.256	10.833-11.679	11.267	0.008
	59 Isopropyl Benzene	11.608	11.628	11.628	11.608	11.618	11.628	11.618	11.618	11.608	11.077-12.138	11.619	0.008

3/10/11

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem1/finn5.i/09MAR11.b/s8260b.m
Batch File: /chem1/finn5.i/09MAR11.b
Inst ID: finn5.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	RT08	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	60 Bromoform	11.658	11.678	11.678	11.658	11.678	11.678	11.668	11.678	11.658	11.127-12.189	11.672	0.009
	61 1,1,2,2-Tetrachloroeth	11.789	11.809	11.809	11.789	11.799	11.809	11.789	11.799	11.789	11.258-12.319	11.799	0.009
$	62 4-Bromofluorobenzene	11.899	11.919	11.919	11.899	11.919	11.919	11.909	11.919	11.899	11.476-12.322	11.913	0.009
	63 1,2,3-Trichloropropane	+++++	11.980	11.980	11.959	11.970	11.980	11.959	11.970	11.959	11.429-12.490	11.971	0.009
	65 Trans-1,4-Dichloro 2-B	+++++	12.030	12.030	12.010	12.020	12.030	12.020	12.020	12.020	11.489-12.550	12.023	0.008
	66 N-Propyl Benzene	12.060	12.080	12.080	12.060	12.070	12.080	12.070	12.070	12.060	11.529-12.591	12.071	0.008
	67 Bromobenzene	12.150	12.160	12.171	12.150	12.160	12.160	12.150	12.160	12.150	11.620-12.681	12.158	0.007
	68 1,3,5-Trimethyl Benzen	12.231	12.251	12.251	12.231	12.251	12.251	12.241	12.251	12.231	11.700-12.761	12.245	0.009
	69 2-Chloro Toluene	12.291	12.311	12.311	12.291	12.301	12.311	12.291	12.301	12.291	11.760-12.822	12.301	0.009
	70 4-Chloro Toluene	12.331	12.351	12.351	12.331	12.351	12.351	12.341	12.351	12.331	11.801-12.862	12.345	0.009
	71 T-Butyl Benzene	12.643	12.663	12.663	12.643	12.653	12.663	12.653	12.653	12.643	12.112-13.173	12.654	0.008
	72 1,2,4-Trimethylbenzene	12.693	12.713	12.713	12.693	12.703	12.713	12.703	12.703	12.693	12.162-13.224	12.704	0.008
	73 S-Butyl Benzene	12.884	12.904	12.914	12.884	12.904	12.904	12.894	12.904	12.884	12.353-13.415	12.899	0.011
	74 4-Isopropyl Toluene	13.035	13.055	13.055	13.035	13.045	13.055	13.045	13.055	13.035	12.504-13.565	13.047	0.009
	75 1,3-Dichlorobenzene	13.176	13.196	13.206	13.176	13.196	13.196	13.186	13.196	13.176	12.645-13.706	13.191	0.011
	64 Cyclohexanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	13.768	13.336-14.200	+++++	+++++
*	76 d4-1,4-Dichlorobenzene	13.256	13.276	13.276	13.256	13.276	13.276	13.266	13.276	13.256	12.726-13.786	13.270	0.009
	77 1,4-Dichlorobenzene	13.296	13.316	13.316	13.296	13.306	13.316	13.306	13.316	13.296	12.766-13.826	13.309	0.009
	178 1,2,3-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.100	13.561-14.639	+++++	+++++
	78 N-Butyl Benzene	13.517	13.537	13.537	13.517	13.527	13.537	13.517	13.527	13.517	12.987-14.047	13.527	0.009
$	79 d4-1,2-Dichlorobenzene	13.708	13.728	13.728	13.708	13.718	13.728	13.708	13.718	13.708	13.178-14.238	13.718	0.009
	80 1,2-Dichlorobenzene	13.738	13.758	13.758	13.738	13.748	13.758	13.748	13.748	13.738	13.208-14.268	13.750	0.008
	81 1,2-Dibromo 3-Chloropr	14.643	14.663	14.663	14.643	14.653	14.663	14.653	14.663	14.643	14.112-15.173	14.655	0.009

Report Date : 10-Mar-2011 09:37

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem1/finn5.i/09MAR11.b/s8260b.m
Batch File: /chem1/finn5.i/09MAR11.b
Inst ID: finn5.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	RT08	EXPEC RT	RT WINDOW	AVG RT	STD DEV
82 1,2,4-Trichlorobenzene	15.688	15.708	15.708	15.688	15.698	15.708	15.698	15.698	15.688	15.158-16.218	15.699	0.008
83 Hexachloro 1,3-Butadie	15.849	15.859	15.869	15.849	15.859	15.859	15.849	15.859	15.849	15.319-16.379	15.856	0.007
84 Naphthalene	16.010	16.030	16.030	16.010	16.020	16.030	16.020	16.020	16.010	15.479-16.540	16.021	0.008
85 1,2,3-Trichlorobenzene	16.301	16.321	16.321	16.301	16.311	16.321	16.311	16.311	16.301	15.771-16.831	16.312	0.008

3/10/11

Analytical Resources, Inc.

8260C

Data file : /chem1/finn5.i/09MAR11.b/0010309.d
Lab Smp Id: IC0309 Client Smp ID: VSTD1
Inj Date : 09-MAR-2011 13:10
Operator : PB Inst ID: finn5.i
Smp Info : IC0309,5,5,0
Misc Info : 11-
Comment :
Method : /chem1/finn5.i/09MAR11.b/s8260b.m
Meth Date : 10-Mar-2011 09:38 patrickb Quant Type: ISTD
Cal Date : 09-MAR-2011 13:10 Cal File: 0010309.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	5.00000	Sample Amount
M	0.00000	Moisture (%)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	ON-COL (ug/Kg)
1 Dichlorodifluoromethane	85	2.874	2.874	(0.447)	923	1.00000	1.056
2 Chloromethane	50	3.166	3.166	(0.492)	2020	1.00000	1.324
3 Vinyl Chloride	62	3.276	3.276	(0.509)	2333	1.00000	1.229 (Q)
4 Bromomethane	94	3.749	3.749	(0.583)	722	1.00000	1.097 (QM)
5 Chloroethane	64	3.809	3.809	(0.592)	1335	1.00000	1.056 (M)
6 Trichlorofluoromethane	101	4.070	4.070	(0.633)	1777	1.00000	1.033 (Q)
7 Acrolein	56	4.452	4.452	(0.692)	1322	5.00000	4.976
8 112Trichloro122Trifluoroethane	101	4.462	4.462	(0.694)	1329	1.00000	0.9704
9 Acetone	43	4.502	4.502	(0.700)	2416	5.00000	6.141
10 1,1-Dichloroethene	96	4.653	4.653	(0.723)	846	1.00000	0.8877
11 Bromoethane	108	4.874	4.874	(0.758)	715	1.00000	0.9552
12 Iodomethane	142	4.965	4.965	(0.772)	981	1.00000	1.101 (M)
13 Methylene Chloride	84	5.085	5.085	(0.791)	1119	1.00000	0.9826
14 Acrylonitrile	53	5.166	5.166	(0.803)	288	1.00000	0.6564 (Q)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
	16 Methyl tert-Butyl Ether	73	5.216	5.216	(0.811)	4140	1.00000	0.8843 (Q)
	15 Carbon Disulfide	76	5.176	5.176	(0.805)	3804	1.00000	1.055
	17 Trans-1,2-Dichloroethene	96	5.367	5.367	(0.834)	1021	1.00000	0.9293
	18 Vinyl Acetate	43	5.688	5.688	(0.884)	1887	1.00000	0.8833
	19 1,1-Dichloroethane	63	5.739	5.739	(0.892)	1927	1.00000	0.9652
	20 2-Butanone	43	6.090	6.090	(0.947)	2372	5.00000	4.176
	21 2,2-Dichloropropane	77	6.261	6.261	(0.973)	1261	1.00000	0.9479
	22 Cis-1,2-Dichloroethene	96	6.301	6.301	(0.980)	1027	1.00000	0.8814
*	23 Pentafluorobenzene	168	6.432	6.432	(1.000)	86225	50.0000	
	24 Chloroform	83	6.442	6.442	(1.002)	1739	1.00000	0.9362 (Q)
	26 Bromochloromethane	128	6.603	6.603	(1.027)	508	1.00000	0.8332 (Q)
$	25 Dibromofluoromethane	111	6.643	6.643	(1.033)	49049	50.0000	47.856 (Q)
	27 1,1,1-Trichloroethane	97	6.834	6.834	(1.062)	1299	1.00000	0.9083
	29 1,1-Dichloropropene	75	6.975	6.975	(0.938)	1393	1.00000	0.9513
	30 Carbon Tetrachloride	117	7.085	7.085	(0.953)	1334	1.00000	1.001
$	31 d4-1,2-Dichloroethane	65	7.105	7.105	(1.105)	43802	50.0000	46.137
	32 1,2-Dichloroethane	62	7.196	7.196	(0.968)	1114	1.00000	0.9221
	33 Benzene	78	7.236	7.236	(0.973)	3957	1.00000	1.035
*	34 1,4-Difluorobenzene	114	7.437	7.437	(1.000)	136001	50.0000	
	35 Trichloroethene	95	7.799	7.799	(1.049)	1026	1.00000	0.9151
	36 1,2-Dichloropropane	63	7.970	7.970	(1.072)	1107	1.00000	0.9219
	37 Bromodichloromethane	83	8.201	8.201	(1.103)	1286	1.00000	0.9451
	39 Dibromomethane	93	8.261	8.261	(1.111)	640	1.00000	0.8992
	40 2-Chloroethyl Vinyl Ether	63	8.422	8.422	(1.132)	130	1.00000	0.5026 (QM)
	41 4-Methyl-2-Pentanone	58	8.462	8.462	(1.138)	1591	5.00000	3.648
	42 Cis 1,3-dichloropropene	75	8.703	8.703	(1.170)	1420	1.00000	0.8868
$	43 d8-Toluene	98	8.985	8.985	(1.208)	151330	50.0000	49.222
	44 Toluene	92	9.065	9.065	(1.219)	2282	1.00000	0.9363
	45 Trans 1,3-Dichloropropene	75	9.196	9.196	(1.236)	1180	1.00000	0.8713
	46 2-Hexanone	43	9.336	9.336	(0.882)	3326	5.00000	3.748 (M)
	47 1,1,2-Trichloroethane	97	9.377	9.377	(1.261)	753	1.00000	0.8346
	48 1,3-Dichloropropane	76	9.638	9.638	(0.911)	1385	1.00000	0.8664
	49 Tetrachloroethene	166	9.748	9.748	(0.921)	1145	1.00000	0.9876
	50 Chlorodibromomethane	129	9.960	9.960	(0.941)	1131	1.00000	0.9918
	51 1,2-Dibromoethane	107	10.181	10.181	(1.369)	866	1.00000	0.8287 (T)
*	52 d5-Chlorobenzene	117	10.583	10.583	(1.000)	125679	50.0000	
	53 Chlorobenzene	112	10.623	10.623	(1.004)	2529	1.00000	0.9732 (Q)
	54 Ethyl Benzene	91	10.653	10.653	(1.007)	4028	1.00000	1.009
	55 1,1,1,2-Tetrachloroethane	131	10.643	10.643	(1.006)	944	1.00000	0.9783
	56 m,p-xylene	106	10.733	10.733	(1.014)	3204	2.00000	1.978
	57 o-Xylene	106	11.226	11.226	(1.061)	1523	1.00000	0.9052
	58 Styrene	104	11.256	11.256	(1.064)	2484	1.00000	0.9250
	59 Isopropyl Benzene	105	11.608	11.608	(0.876)	3897	1.00000	1.025
	60 Bromoform	173	11.658	11.658	(0.879)	639	1.00000	0.8456
	61 1,1,2,2-Tetrachloroethane	83	11.789	11.789	(0.889)	1276	1.00000	0.9852 (M)
$	62 4-Bromofluorobenzene	95	11.899	11.899	(1.124)	61818	50.0000	47.919
	63 1,2,3-Trichloropropane	110	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
65	Trans-1,4-Dichloro 2-Butene	53	Compound Not Detected.					
66	N-Propyl Benzene	91	12.060	12.060	(0.910)	4612	1.00000	1.091
67	Bromobenzene	156	12.150	12.150	(0.917)	1123	1.00000	0.9530
68	1,3,5-Trimethyl Benzene	105	12.231	12.231	(0.923)	3101	1.00000	1.023
69	2-Chloro Toluene	91	12.291	12.291	(0.927)	3046	1.00000	1.042
70	4-Chloro Toluene	91	12.331	12.331	(0.930)	3156	1.00000	1.046
71	T-Butyl Benzene	119	12.643	12.643	(0.954)	2890	1.00000	0.9935
72	1,2,4-Trimethylbenzene	105	12.693	12.693	(0.958)	3076	1.00000	1.011(T)
73	S-Butyl Benzene	105	12.884	12.884	(0.972)	4237	1.00000	1.045
74	4-Isopropyl Toluene	119	13.035	13.035	(0.983)	3191	1.00000	1.004
75	1,3-Dichlorobenzene	146	13.176	13.176	(0.994)	2086	1.00000	1.009
* 76	d4-1,4-Dichlorobenzene	152	13.256	13.256	(1.000)	63952	50.0000	
77	1,4-Dichlorobenzene	146	13.296	13.296	(1.003)	2172	1.00000	1.055(Q)
78	N-Butyl Benzene	91	13.517	13.517	(1.020)	3273	1.00000	1.044
$ 79	d4-1,2-Dichlorobenzene	152	13.708	13.708	(1.034)	55728	50.0000	49.066
80	1,2-Dichlorobenzene	146	13.738	13.738	(1.036)	1959	1.00000	1.011
81	1,2-Dibromo 3-Chloropropane	75	14.643	14.643	(1.105)	157	1.00000	0.6770(Q)
82	1,2,4-Trichlorobenzene	180	15.688	15.688	(1.183)	1303	1.00000	0.9423
83	Hexachloro 1,3-Butadiene	225	15.849	15.849	(1.196)	806	1.00000	1.014
84	Naphthalene	128	16.010	16.010	(1.208)	2689	1.00000	0.8821
85	1,2,3-Trichlorobenzene	180	16.301	16.301	(1.230)	1253	1.00000	0.9191

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: finn5.i
Lab File ID: 0010309.d
Lab Smp Id: IC0309
Analysis Type: VOA
Quant Type: ISTD
Operator: PB
Method File: /chem1/finn5.i/09MAR11.b/s8260b.m
Misc Info: 11-

Calibration Date: 09-MAR-2011
Calibration Time: 15:22
Client Smp ID: VSTD1
Level: LOW
Sample Type: SOIL

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
23 Pentafluorobenzen	91022	45511	182044	86225	-5.27
34 1,4-Difluorobenze	153104	76552	306208	136001	-11.17
52 d5-Chlorobenzene	143720	71860	287440	125679	-12.55
76 d4-1,4-Dichlorobe	77398	38699	154796	63952	-17.37

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	6.44	5.94	6.94	6.43	-0.16
34 1,4-Difluorobenze	7.45	6.95	7.95	7.44	-0.13
52 d5-Chlorobenzene	10.59	10.09	11.09	10.58	-0.09
76 d4-1,4-Dichlorobe	13.28	12.78	13.78	13.26	-0.15

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/finn5.i/09MAR11.b/0010309.d

Date : 09-MAR-2011 13:10

Client ID: VSTD1

Sample Info: IC0309,5,5,0

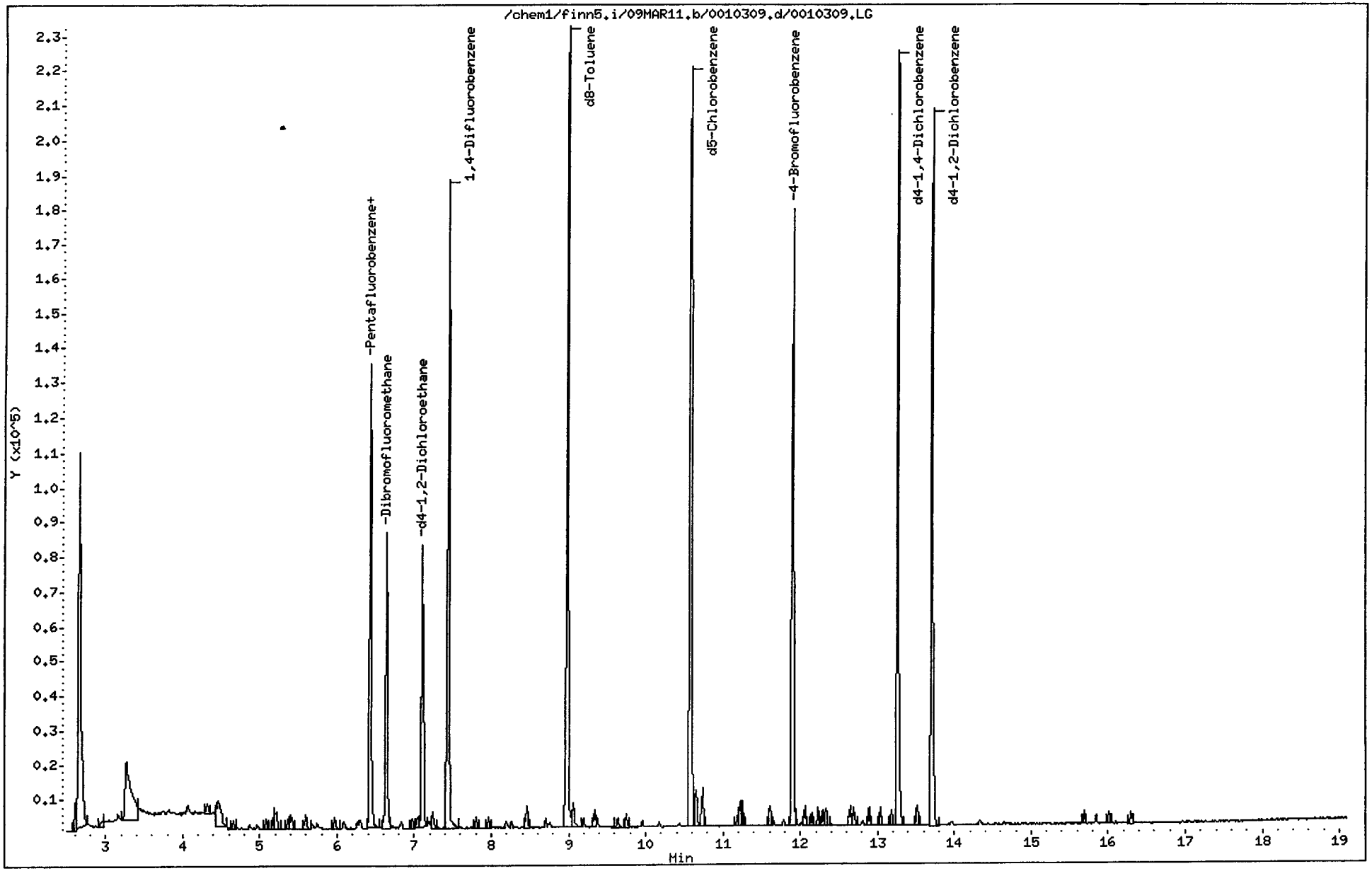
Column phase: Rtx502.2

Instrument: finn5.i

Operator: PB

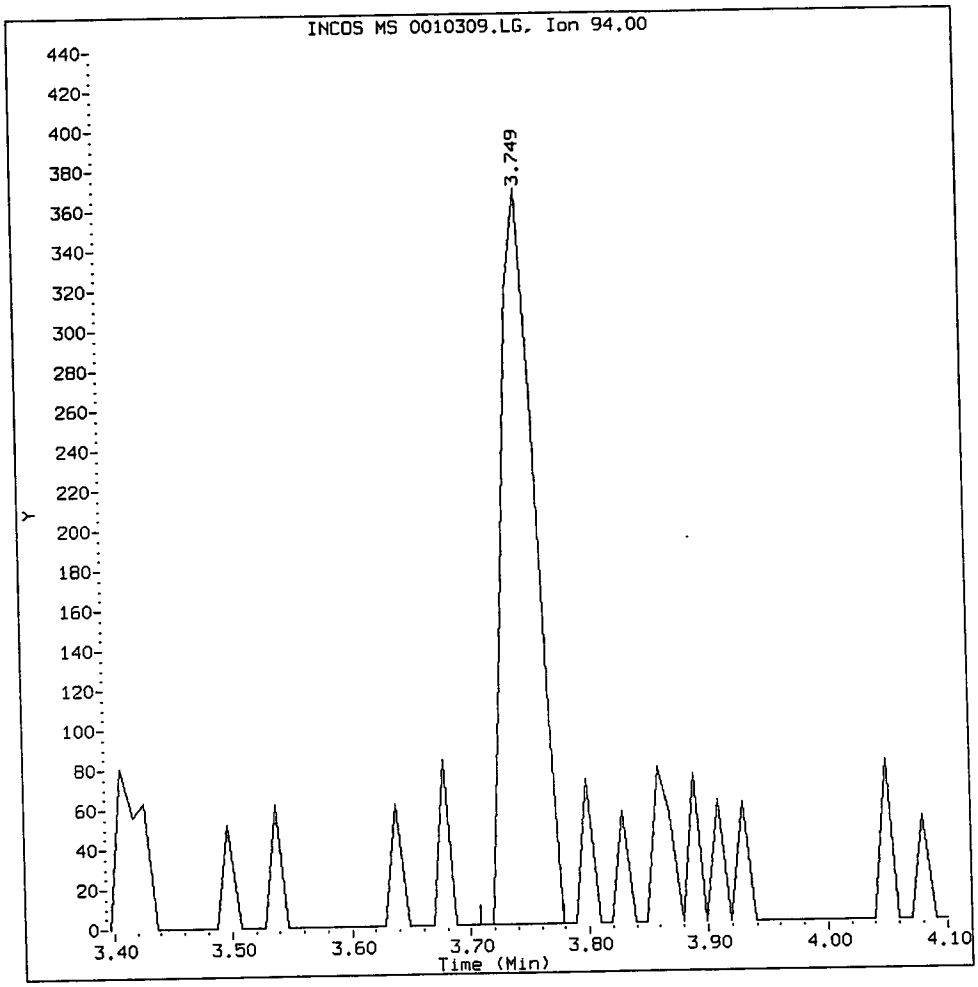
Column diameter: 0.18

SS93:00345



IC0309, /chem1/finn5.i/09MAR11.b/0010309.d

Bromomethane Amount: 1.10 Area: 722



MANUAL INTEGRATION for Bromomethane

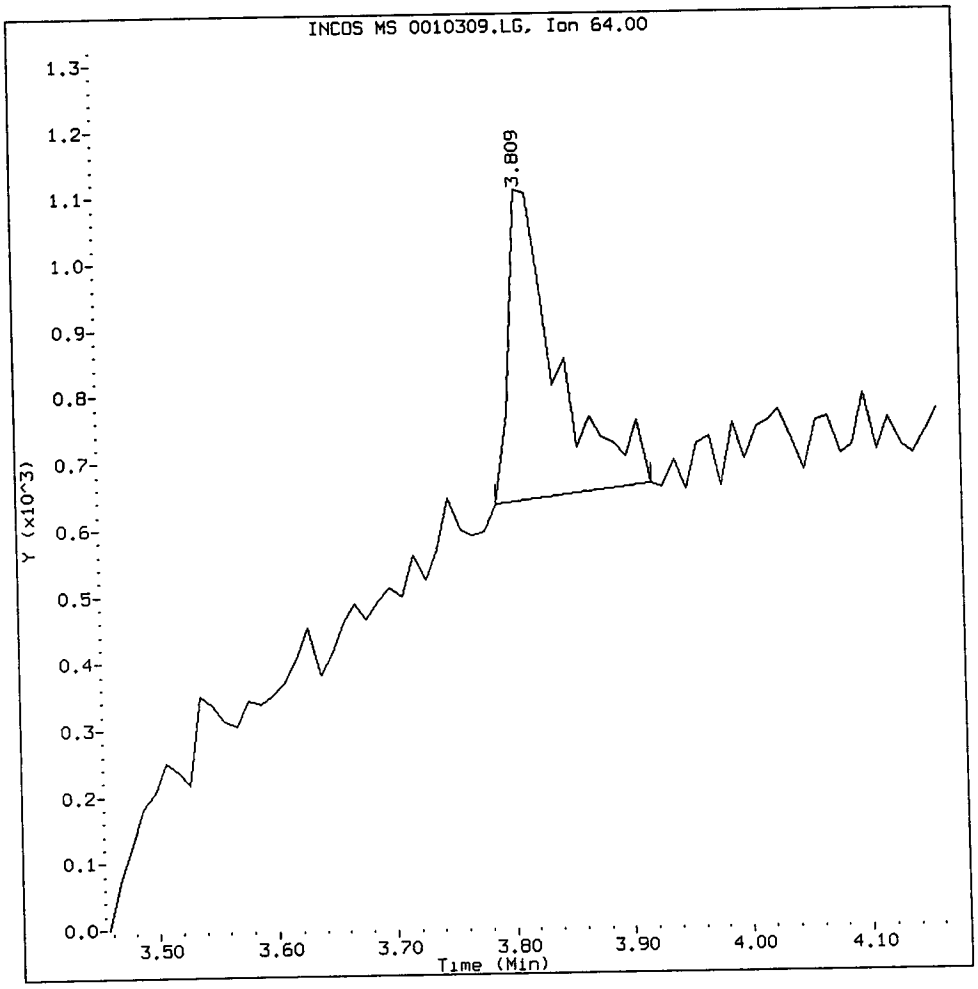
1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: _____ Date: 3/10/11

IC0309, /chem1/finn5.i/09MAR11.b/0010309.d

Chloroethane Amount: 1.06 Area: 1335



MANUAL INTEGRATION for Chloroethane

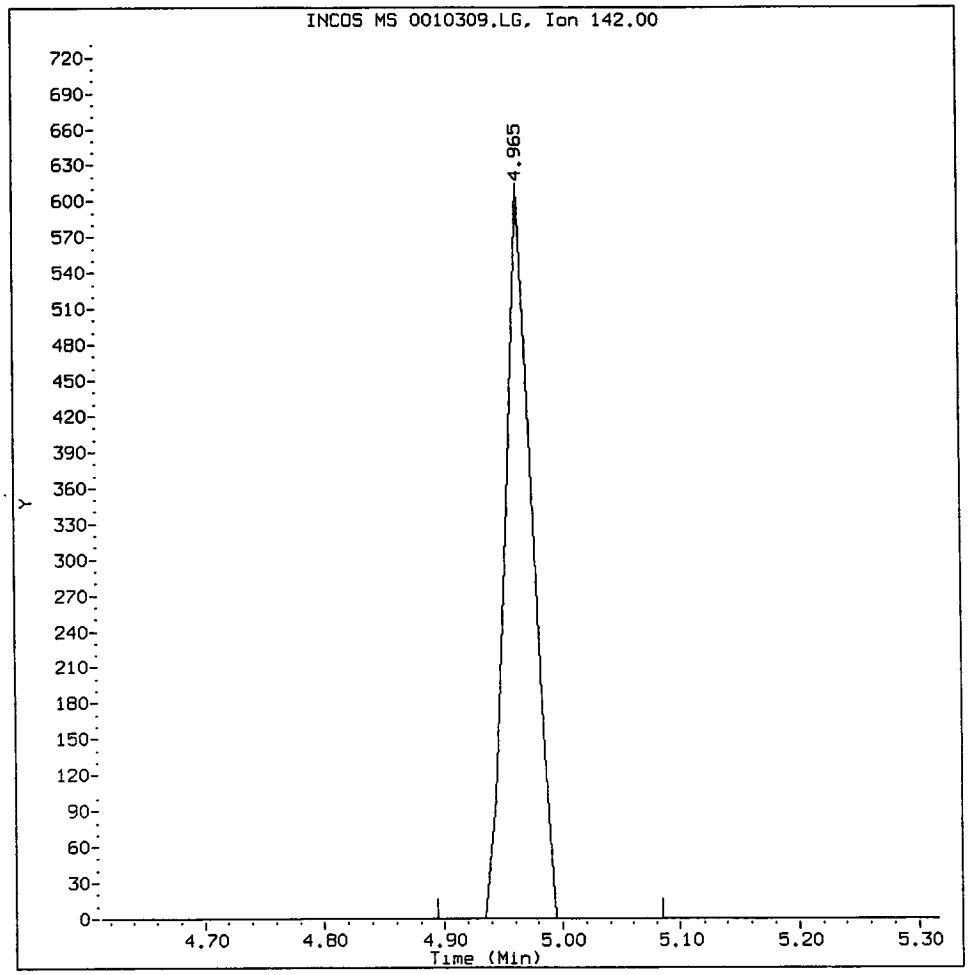
1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: _____ Date: 3/25/11

IC0309, /chem1/finn5.i/09MAR11.b/0010309.d

Iodomethane Amount: 1.10 Area: 981



MANUAL INTEGRATION for Iodomethane

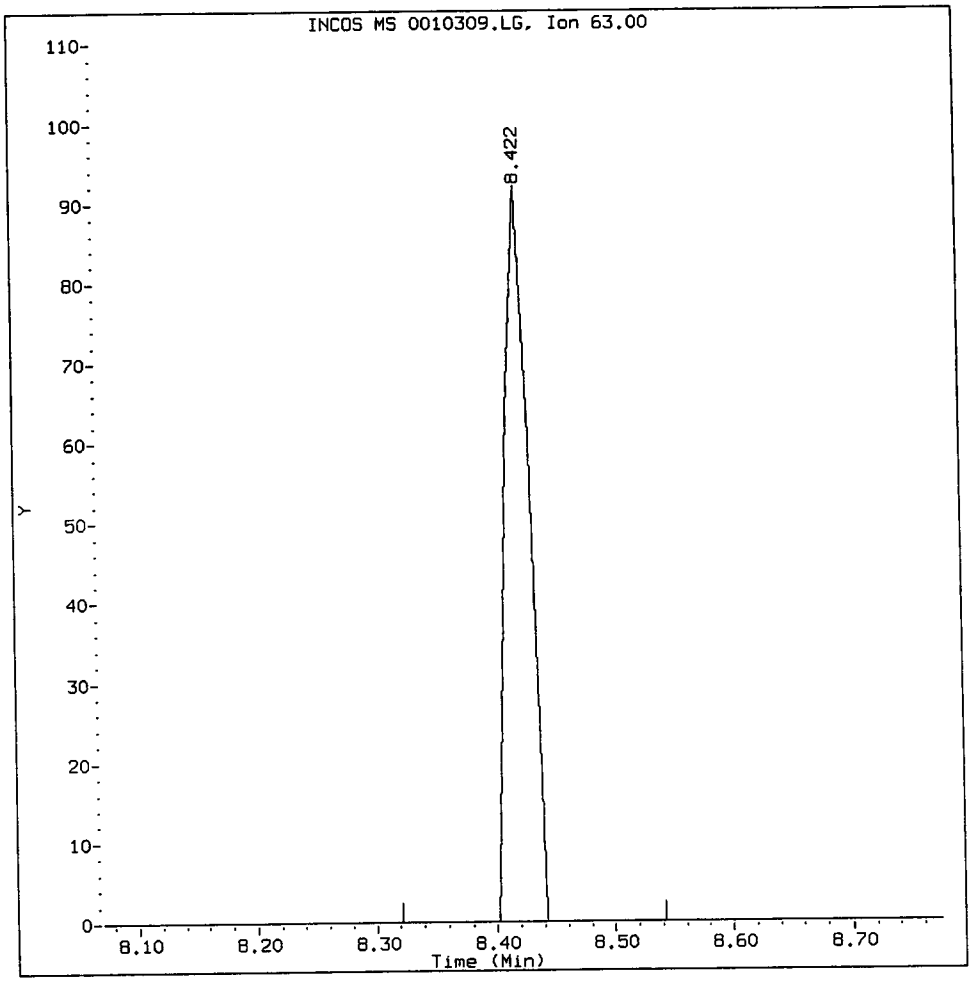
1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: _____ Date: 3/09/11

IC0309, /chem1/finn5.i/09MAR11.b/0010309.d

2-Chloroethyl Vinyl Ether Amount: 0.50 Area: 130



MANUAL INTEGRATION for 2-Chloroethyl Vinyl Ether

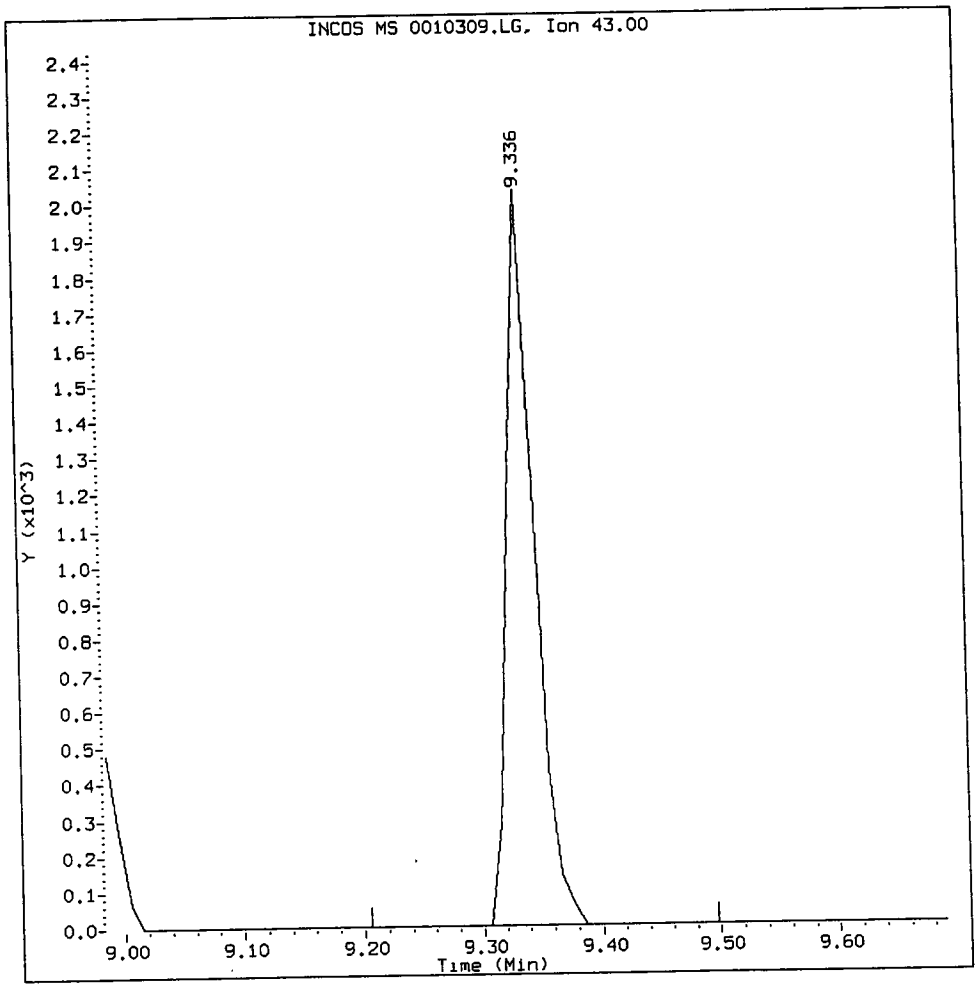
1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: _____ Date: 3/18/11

IC0309, /chem1/finn5.i/09MAR11.b/0010309.d

2-Hexanone Amount: 3.75 Area: 3326



MANUAL INTEGRATION for 2-Hexanone

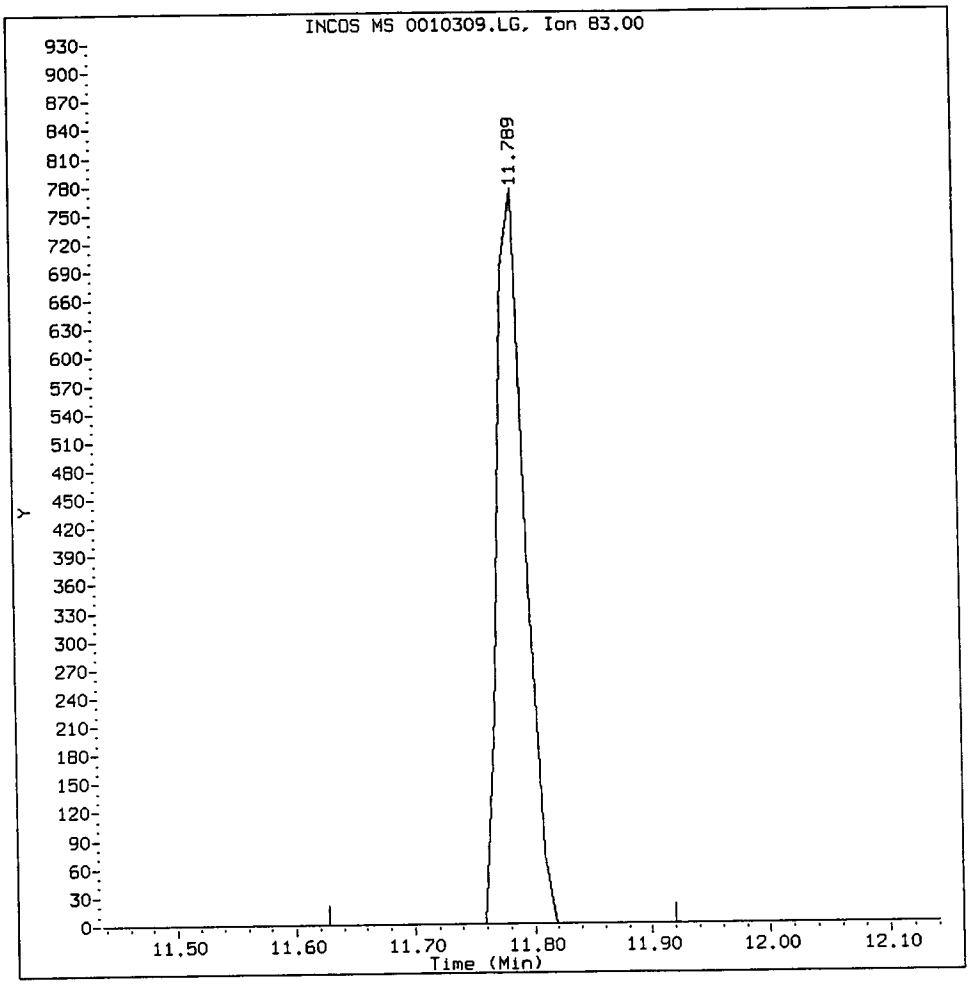
1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: _____ Date: 3/14/4

IC0309, /chem1/finn5.i/09MAR11.b/0010309.d

1,1,2,2-Tetrachloroethane Amount: 0.99 Area: 1276



MANUAL INTEGRATION for 1,1,2,2-Tetrachloroethane

1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: _____ Date: 3/10/11

CO-ELUTION SUMMARY FOR FILE - 0010309.d

Lab ID: IC0309, Method: s8260b.m, Instrument: finn5.i, Date: 09-MAR-2011

RT	CO-ELUTION COMPOUNDS
NO CO-ELUTIONS	

Analytical Resources, Inc.

8260C

Data file : /chem1/finn5.i/09MAR11.b/0020309.d
Lab Smp Id: IC0309 Client Smp ID: VSTD2
Inj Date : 09-MAR-2011 16:51
Operator : PB Inst ID: finn5.i
Smp Info : IC0309,5,5,0
Misc Info : 11-
Comment :
Method : /chem1/finn5.i/09MAR11.b/s8260b.m
Meth Date : 10-Mar-2011 09:38 patrickb Quant Type: ISTD
Cal Date : 09-MAR-2011 16:51 Cal File: 0020309.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	5.00000	Sample Amount
M	0.00000	Moisture (%)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
1 Dichlorodifluoromethane	85	2.894	2.894	(0.449)	1675	2.00000	1.877
2 Chloromethane	50	3.176	3.176	(0.493)	3542	2.00000	2.276
3 Vinyl Chloride	62	3.286	3.286	(0.510)	4834	2.00000	2.495(Q)
4 Bromomethane	94	3.759	3.759	(0.583)	1374	2.00000	2.045(Q)
5 Chloroethane	64	3.829	3.829	(0.594)	2373	2.00000	1.839(M)
6 Trichlorofluoromethane	101	4.080	4.080	(0.633)	3683	2.00000	2.097
7 Acrolein	56	4.472	4.472	(0.694)	3052	10.0000	11.256
8 112Trichloro122Trifluoroethane	101	4.482	4.482	(0.696)	3069	2.00000	2.196
9 Acetone	43	4.522	4.522	(0.702)	4948	10.0000	12.324
10 1,1-Dichloroethene	96	4.673	4.673	(0.725)	2062	2.00000	2.120
11 Bromoethane	108	4.884	4.884	(0.758)	1533	2.00000	2.007
12 Iodomethane	142	4.985	4.985	(0.774)	1990	2.00000	2.189
13 Methylene Chloride	84	5.095	5.095	(0.791)	2508	2.00000	2.158
14 Acrylonitrile	53	5.186	5.186	(0.805)	891	2.00000	1.990(Q)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	ON-COL (ug/Kg)
	16 Methyl tert-Butyl Ether	73	5.226	5.226	(0.811)	10656	2.00000	2.230(Q)
	15 Carbon Disulfide	76	5.196	5.196	(0.807)	7939	2.00000	2.158
	17 Trans-1,2-Dichloroethene	96	5.377	5.377	(0.835)	2440	2.00000	2.176
	18 Vinyl Acetate	43	5.708	5.708	(0.886)	4649	2.00000	2.132
	19 1,1-Dichloroethane	63	5.759	5.759	(0.894)	4132	2.00000	2.028
	20 2-Butanone	43	6.110	6.110	(0.949)	6227	10.0000	10.741
	21 2,2-Dichloropropane	77	6.281	6.281	(0.975)	2719	2.00000	2.003
	22 Cis-1,2-Dichloroethene	96	6.311	6.311	(0.980)	2515	2.00000	2.115
*	23 Pentafluorobenzene	168	6.442	6.442	(1.000)	87996	50.0000	
	24 Chloroform	83	6.462	6.462	(1.003)	4045	2.00000	2.134(Q)
	26 Bromochloromethane	128	6.623	6.623	(1.028)	1303	2.00000	2.094(Q)
$	25 Dibromofluoromethane	111	6.653	6.653	(1.033)	53430	50.0000	51.081(Q)
	27 1,1,1-Trichloroethane	97	6.844	6.844	(1.062)	2920	2.00000	2.000
	29 1,1-Dichloropropene	75	6.985	6.985	(0.938)	3215	2.00000	2.089
	30 Carbon Tetrachloride	117	7.105	7.105	(0.954)	2960	2.00000	2.114
$	31 d4-1,2-Dichloroethane	65	7.115	7.115	(1.105)	50180	50.0000	51.792
	32 1,2-Dichloroethane	62	7.206	7.206	(0.968)	2629	2.00000	2.071
	33 Benzene	78	7.256	7.256	(0.974)	8724	2.00000	2.172
*	34 1,4-Difluorobenzene	114	7.447	7.447	(1.000)	142924	50.0000	
	35 Trichloroethene	95	7.819	7.819	(1.050)	2282	2.00000	1.937
	36 1,2-Dichloropropane	63	7.980	7.980	(1.072)	2518	2.00000	1.995
	37 Bromodichloromethane	83	8.211	8.211	(1.103)	2945	2.00000	2.059
	39 Dibromomethane	93	8.281	8.281	(1.112)	1582	2.00000	2.115
	40 2-Chloroethyl Vinyl Ether	63	8.432	8.432	(1.132)	348	2.00000	1.280(Q)
	41 4-Methyl-2-Pentanone	58	8.472	8.472	(1.138)	4805	10.0000	10.482
	42 Cis 1,3-dichloropropene	75	8.723	8.723	(1.171)	3128	2.00000	1.859
$	43 d8-Toluene	98	8.995	8.995	(1.208)	160095	50.0000	49.551
	44 Toluene	92	9.075	9.075	(1.219)	5284	2.00000	2.063
	45 Trans 1,3-Dichloropropene	75	9.216	9.216	(1.238)	2693	2.00000	1.892
	46 2-Hexanone	43	9.357	9.357	(0.883)	10812	10.0000	11.511(M)
	47 1,1,2-Trichloroethane	97	9.397	9.397	(1.262)	2030	2.00000	2.141
	48 1,3-Dichloropropane	76	9.648	9.648	(0.911)	3564	2.00000	2.106
	49 Tetrachloroethene	166	9.769	9.769	(0.922)	2519	2.00000	2.053
	50 Chlorodibromomethane	129	9.970	9.970	(0.941)	2539	2.00000	2.104
	51 1,2-Dibromoethane	107	10.201	10.201	(1.370)	2252	2.00000	2.051(T)
*	52 d5-Chlorobenzene	117	10.593	10.593	(1.000)	133027	50.0000	
	53 Chlorobenzene	112	10.633	10.633	(1.004)	6017	2.00000	2.187
	54 Ethyl Benzene	91	10.673	10.673	(1.008)	9624	2.00000	2.279
	55 1,1,1,2-Tetrachloroethane	131	10.663	10.663	(1.007)	2154	2.00000	2.109
	56 m,p-xylene	106	10.753	10.753	(1.015)	7274	4.00000	4.244
	57 o-Xylene	106	11.236	11.236	(1.061)	3616	2.00000	2.030
	58 Styrene	104	11.266	11.266	(1.064)	6076	2.00000	2.138
	59 Isopropyl Benzene	105	11.618	11.618	(0.875)	9322	2.00000	2.177
	60 Bromoform	173	11.678	11.678	(0.880)	1756	2.00000	2.063
	61 1,1,2,2-Tetrachloroethane	83	11.799	11.799	(0.889)	3196	2.00000	2.191
$	62 4-Bromofluorobenzene	95	11.919	11.919	(1.125)	68869	50.0000	50.436
	63 1,2,3-Trichloropropane	110	11.970	11.970	(0.902)	685	2.00000	1.947(Q)

SS83 : 00354

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	ON-COL (ug/Kg)
65	Trans-1,4-Dichloro 2-Butene	53	12.020	12.020	(0.905)	800	2.00000	2.106 (QM)
66	N-Propyl Benzene	91	12.070	12.070	(0.909)	10632	2.00000	2.233
67	Bromobenzene	156	12.160	12.160	(0.916)	2682	2.00000	2.021
68	1,3,5-Trimethyl Benzene	105	12.251	12.251	(0.923)	7074	2.00000	2.073
69	2-Chloro Toluene	91	12.301	12.301	(0.927)	7017	2.00000	2.131
70	4-Chloro Toluene	91	12.351	12.351	(0.930)	7810	2.00000	2.298
71	T-Butyl Benzene	119	12.653	12.653	(0.953)	6920	2.00000	2.112
72	1,2,4-Trimethylbenzene	105	12.703	12.703	(0.957)	7126	2.00000	2.080
73	S-Butyl Benzene	105	12.904	12.904	(0.972)	9867	2.00000	2.160
74	4-Isopropyl Toluene	119	13.055	13.055	(0.983)	7436	2.00000	2.077
75	1,3-Dichlorobenzene	146	13.196	13.196	(0.994)	4898	2.00000	2.104
* 76	d4-1,4-Dichlorobenzene	152	13.276	13.276	(1.000)	72018	50.0000	
77	1,4-Dichlorobenzene	146	13.316	13.316	(1.003)	4930	2.00000	2.127
78	N-Butyl Benzene	91	13.527	13.527	(1.019)	7277	2.00000	2.061
$ 79	d4-1,2-Dichlorobenzene	152	13.718	13.718	(1.033)	63605	50.0000	49.730
80	1,2-Dichlorobenzene	146	13.748	13.748	(1.036)	4685	2.00000	2.147
81	1,2-Dibromo 3-Chloropropane	75	14.663	14.663	(1.104)	606	2.00000	2.320
82	1,2,4-Trichlorobenzene	180	15.698	15.698	(1.182)	3294	2.00000	2.115
83	Hexachloro 1,3-Butadiene	225	15.859	15.859	(1.195)	1975	2.00000	2.208
84	Naphthalene	128	16.020	16.020	(1.207)	7878	2.00000	2.295
85	1,2,3-Trichlorobenzene	180	16.311	16.311	(1.229)	3489	2.00000	2.273

QC Flag Legend

T - Target compound detected outside RT window.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: /chem1/finn5.i/09MAR11.b/0020309.d
Report Date: 10-Mar-2011 09:38

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: finn5.i
Lab File ID: 0020309.d
Lab Smp Id: IC0309
Analysis Type: VOA
Quant Type: ISTD
Operator: PB
Method File: /chem1/finn5.i/09MAR11.b/s8260b.m
Misc Info: 11-

Calibration Date: 09-MAR-2011
Calibration Time: 15:22
Client Smp ID: VSTD2
Level: LOW
Sample Type: SOIL

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
23 Pentafluorobenzen	91022	45511	182044	87996	-3.32
34 1,4-Difluorobenze	153104	76552	306208	142924	-6.65
52 d5-Chlorobenzene	143720	71860	287440	133027	-7.44
76 d4-1,4-Dichlorobe	77398	38699	154796	72018	-6.95

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	6.44	5.94	6.94	6.44	0.00
34 1,4-Difluorobenze	7.45	6.95	7.95	7.45	0.00
52 d5-Chlorobenzene	10.59	10.09	11.09	10.59	0.00
76 d4-1,4-Dichlorobe	13.28	12.78	13.78	13.28	0.00

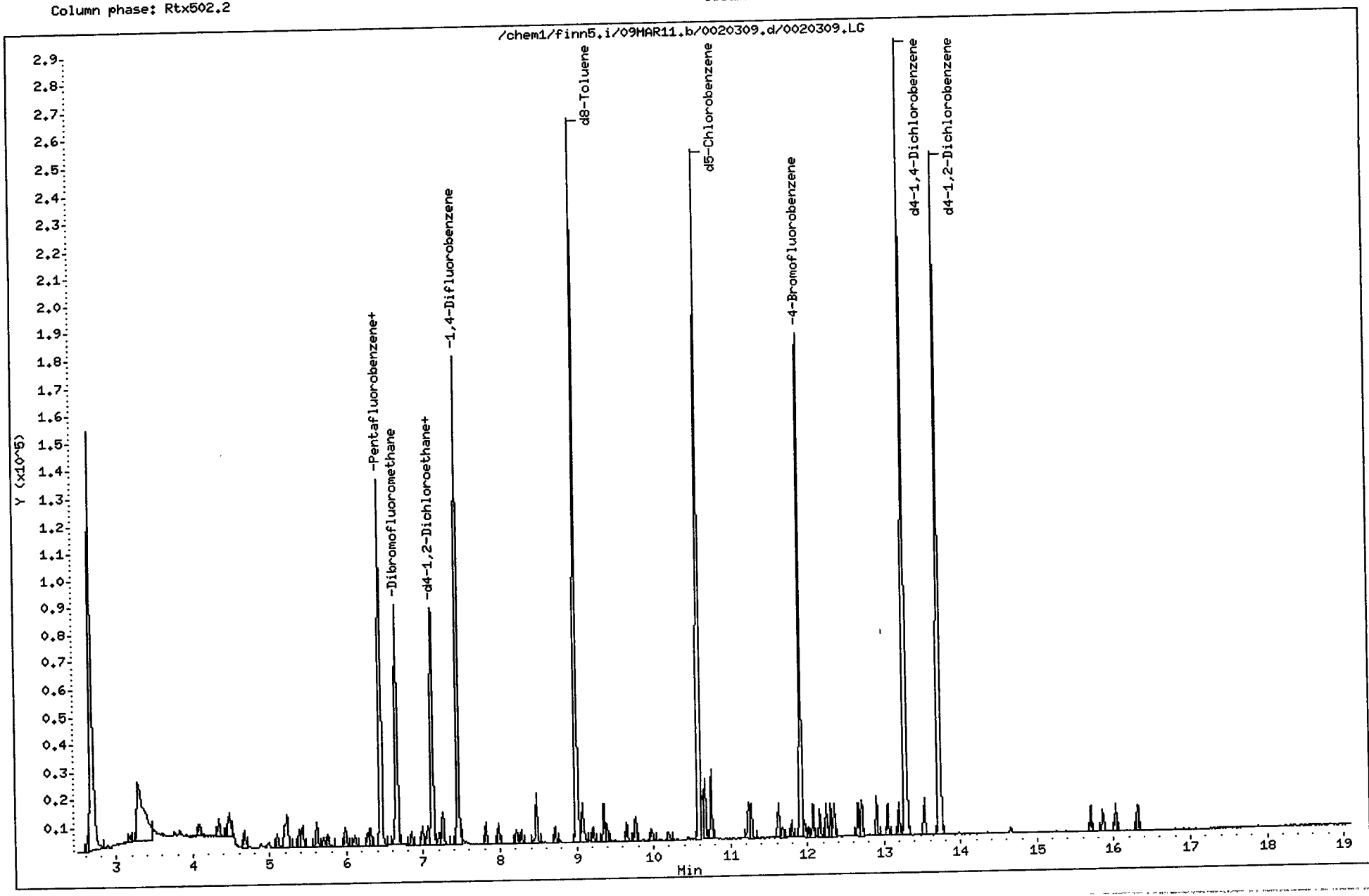
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem1/finn5.i/09MAR11.b/0020309.d
Date : 09-MAR-2011 16:51
Client ID: VSTD2
Sample Info: IC0309,5,5,0

Instrument: finn5.i

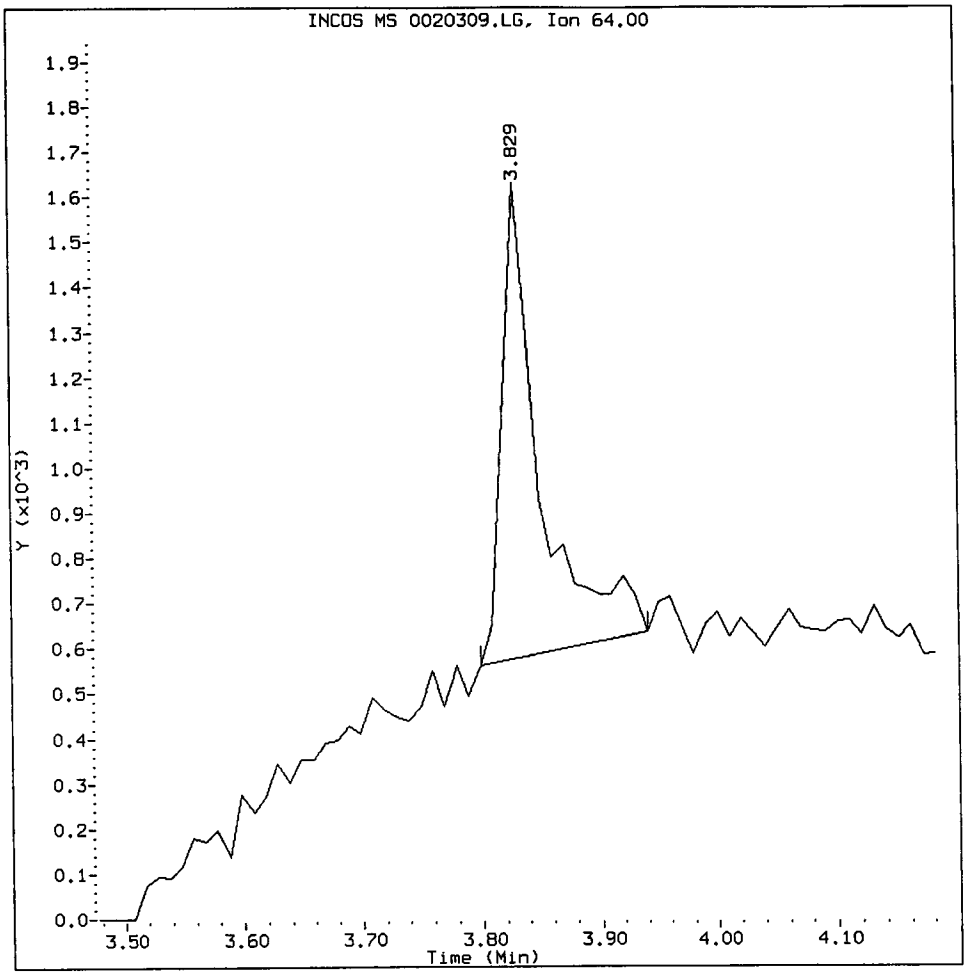
Operator: PB
Column diameter: 0.18

Column phase: Rtx502.2



IC0309, /chem1/finn5.i/09MAR11.b/0020309.d

Chloroethane Amount: 1.84 Area: 2373



MANUAL INTEGRATION for Chloroethane

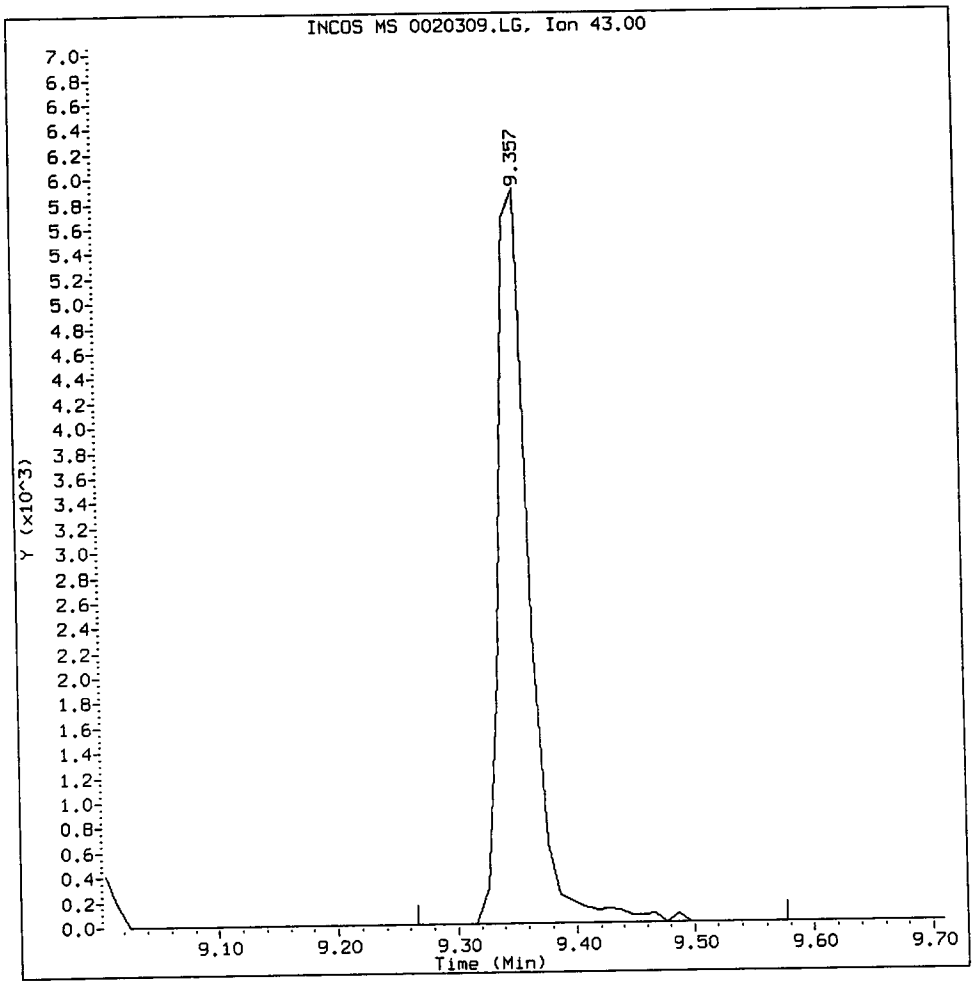
1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: _____ Date: 3/24

IC0309, /chem1/finn5.i/09MAR11.b/0020309.d

2-Hexanone Amount: 11.51 Area: 10812



MANUAL INTEGRATION for 2-Hexanone

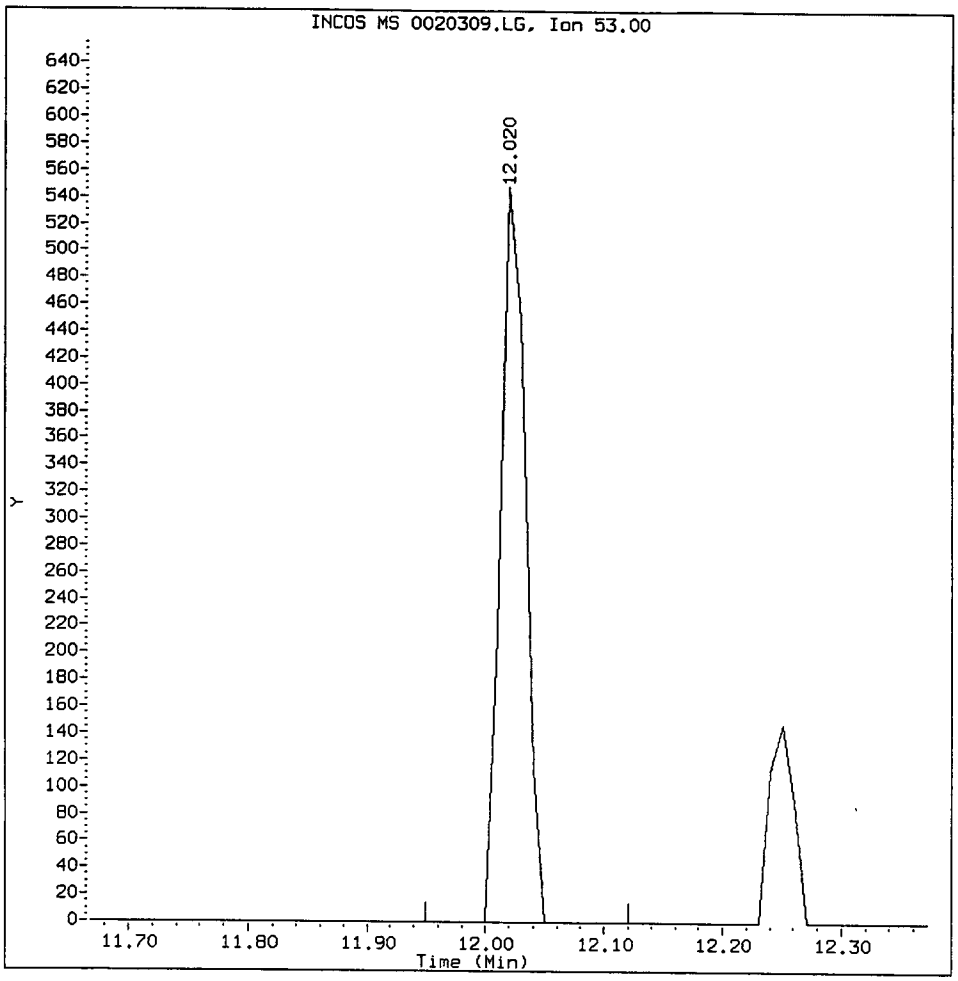
1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: _____ Date: 3/15/11

IC0309, /chem1/finn5.i/09MAR11.b/0020309.d

Trans-1,4-Dichloro 2-Butene Amount: 2.11 Area: 800



MANUAL INTEGRATION for Trans-1,4-Dichloro 2-Butene

1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: _____ Date: 3/10/11

CO-ELUTION SUMMARY FOR FILE - 0020309.d

Lab ID: IC0309, Method: s8260b.m, Instrument: finn5.i, Date: 09-MAR-2011

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Data File: /chem1/finn5.i/09MAR11.b/0050309.d
Report Date: 10-Mar-2011 09:38

Analytical Resources, Inc.

8260C

Data file : /chem1/finn5.i/09MAR11.b/0050309.d
Lab Smp Id: IC0309 Client Smp ID: VSTD5
Inj Date : 09-MAR-2011 16:18
Operator : PB Inst ID: finn5.i
Smp Info : IC0309,5,5,0
Misc Info : 11-
Comment :
Method : /chem1/finn5.i/09MAR11.b/s8260b.m
Meth Date : 10-Mar-2011 09:38 patrickb Quant Type: ISTD
Cal Date : 09-MAR-2011 16:18 Cal File: 0050309.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	5.00000	Sample Amount
M	0.00000	Moisture (%)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
1 Dichlorodifluoromethane	85	2.884	2.884	(0.448)	4688	5.00000	5.206
2 Chloromethane	50	3.176	3.176	(0.493)	8164	5.00000	5.197
3 Vinyl Chloride	62	3.276	3.276	(0.509)	10743	5.00000	5.494(Q)
4 Bromomethane	94	3.749	3.749	(0.582)	2677	5.00000	3.947
5 Chloroethane	64	3.819	3.819	(0.593)	8287	5.00000	6.362
6 Trichlorofluoromethane	101	4.070	4.070	(0.632)	9322	5.00000	5.260
7 Acrolein	56	4.462	4.462	(0.693)	7401	25.0000	27.044
8 112Trichloro122Trifluoroethane	101	4.472	4.472	(0.694)	7744	5.00000	5.489
9 Acetone	43	4.512	4.512	(0.700)	11545	25.0000	28.490
10 1,1-Dichloroethene	96	4.663	4.663	(0.724)	5150	5.00000	5.246
11 Bromoethane	108	4.874	4.874	(0.757)	4102	5.00000	5.320
12 Iodomethane	142	4.975	4.975	(0.772)	5016	5.00000	5.467
13 Methylene Chloride	84	5.095	5.095	(0.791)	6250	5.00000	5.328
14 Acrylonitrile	53	5.176	5.176	(0.803)	2404	5.00000	5.319(Q)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
	16 Methyl tert-Butyl Ether	73	5.226	5.226	(0.811)	26828	5.00000	5.563 (Q)
	15 Carbon Disulfide	76	5.186	5.186	(0.805)	19593	5.00000	5.277
	17 Trans-1,2-Dichloroethene	96	5.377	5.377	(0.835)	5802	5.00000	5.127
	18 Vinyl Acetate	43	5.698	5.698	(0.885)	11135	5.00000	5.060
	19 1,1-Dichloroethane	63	5.749	5.749	(0.892)	10697	5.00000	5.202
	20 2-Butanone	43	6.100	6.100	(0.947)	16064	25.0000	27.453
	21 2,2-Dichloropropane	77	6.271	6.271	(0.973)	6789	5.00000	4.954
	22 Cis-1,2-Dichloroethene	96	6.311	6.311	(0.980)	6194	5.00000	5.160
*	23 Pentafluorobenzene	168	6.442	6.442	(1.000)	88818	50.0000	
	24 Chloroform	83	6.452	6.452	(1.002)	9760	5.00000	5.101 (Q)
	26 Bromochloromethane	128	6.613	6.613	(1.027)	3284	5.00000	5.229
$	25 Dibromofluoromethane	111	6.653	6.653	(1.033)	55157	50.0000	52.244 (Q)
	27 1,1,1-Trichloroethane	97	6.844	6.844	(1.062)	7277	5.00000	4.940
	29 1,1-Dichloropropene	75	6.985	6.985	(0.938)	7822	5.00000	4.968
	30 Carbon Tetrachloride	117	7.095	7.095	(0.953)	7238	5.00000	5.053
$	31 d4-1,2-Dichloroethane	65	7.115	7.115	(1.105)	52118	50.0000	53.294
	32 1,2-Dichloroethane	62	7.196	7.196	(0.966)	6880	5.00000	5.297
	33 Benzene	78	7.246	7.246	(0.973)	22027	5.00000	5.360
*	34 1,4-Difluorobenzene	114	7.447	7.447	(1.000)	146219	50.0000	
	35 Trichloroethene	95	7.809	7.809	(1.049)	6063	5.00000	5.030
	36 1,2-Dichloropropane	63	7.970	7.970	(1.070)	6443	5.00000	4.991
	37 Bromodichloromethane	83	8.211	8.211	(1.103)	7251	5.00000	4.956
	39 Dibromomethane	93	8.271	8.271	(1.111)	3928	5.00000	5.133
	40 2-Chloroethyl Vinyl Ether	63	8.432	8.432	(1.132)	1110	5.00000	3.991 (Q)
	41 4-Methyl-2-Pentanone	58	8.472	8.472	(1.138)	12201	25.0000	26.018
	42 Cis 1,3-dichloropropene	75	8.713	8.713	(1.170)	8215	5.00000	4.772
$	43 d8-Toluene	98	8.985	8.985	(1.206)	163775	50.0000	49.548
	44 Toluene	92	9.075	9.075	(1.219)	12880	5.00000	4.915
	45 Trans 1,3-Dichloropropene	75	9.206	9.206	(1.236)	6825	5.00000	4.688
	46 2-Hexanone	43	9.346	9.346	(0.883)	27639	25.0000	28.505 (M)
	47 1,1,2-Trichloroethane	97	9.387	9.387	(1.260)	5013	5.00000	5.168
	48 1,3-Dichloropropane	76	9.648	9.648	(0.912)	9168	5.00000	5.248
	49 Tetrachloroethene	166	9.759	9.759	(0.922)	6261	5.00000	4.942
	50 Chlorodibromomethane	129	9.970	9.970	(0.942)	6028	5.00000	4.838
	51 1,2-Dibromoethane	107	10.191	10.191	(1.368)	5551	5.00000	4.941
*	52 d5-Chlorobenzene	117	10.583	10.583	(1.000)	137327	50.0000	
	53 Chlorobenzene	112	10.633	10.633	(1.005)	14621	5.00000	5.149
	54 Ethyl Benzene	91	10.663	10.663	(1.008)	23477	5.00000	5.385
	55 1,1,1,2-Tetrachloroethane	131	10.653	10.653	(1.007)	5220	5.00000	4.951
	56 m,p-xylene	106	10.743	10.743	(1.015)	18246	10.0000	10.311
	57 o-Xylene	106	11.236	11.236	(1.062)	8911	5.00000	4.847
	58 Styrene	104	11.266	11.266	(1.065)	15061	5.00000	5.132
	59 Isopropyl Benzene	105	11.618	11.618	(0.876)	23320	5.00000	5.209
	60 Bromoform	173	11.668	11.668	(0.880)	4412	5.00000	4.958
	61 1,1,2,2-Tetrachloroethane	83	11.789	11.789	(0.889)	7732	5.00000	5.070
$	62 4-Bromofluorobenzene	95	11.909	11.909	(1.125)	71301	50.0000	50.582
	63 1,2,3-Trichloropropane	110	11.959	11.959	(0.902)	1932	5.00000	5.251 (Q)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
65 Trans-1,4-Dichloro 2-Butene	53	12.020	12.020	(0.906)	2067	5.00000	5.204
66 N-Propyl Benzene	91	12.070	12.070	(0.910)	27048	5.00000	5.432
67 Bromobenzene	156	12.150	12.150	(0.916)	6774	5.00000	4.882
68 1,3,5-Trimethyl Benzene	105	12.241	12.241	(0.923)	17681	5.00000	4.954
69 2-Chloro Toluene	91	12.291	12.291	(0.926)	18280	5.00000	5.309
70 4-Chloro Toluene	91	12.341	12.341	(0.930)	18055	5.00000	5.081
71 T-Butyl Benzene	119	12.653	12.653	(0.954)	16841	5.00000	4.916
72 1,2,4-Trimethylbenzene	105	12.703	12.703	(0.958)	18351	5.00000	5.122
73 S-Butyl Benzene	105	12.894	12.894	(0.972)	24995	5.00000	5.234
74 4-Isopropyl Toluene	119	13.045	13.045	(0.983)	18811	5.00000	5.026
75 1,3-Dichlorobenzene	146	13.186	13.186	(0.994)	11882	5.00000	4.880
* 76 d4-1,4-Dichlorobenzene	152	13.266	13.266	(1.000)	75310	50.0000	
77 1,4-Dichlorobenzene	146	13.306	13.306	(1.003)	11960	5.00000	4.934
78 N-Butyl Benzene	91	13.517	13.517	(1.019)	18416	5.00000	4.988
$ 79 d4-1,2-Dichlorobenzene	152	13.708	13.708	(1.033)	66302	50.0000	49.572
80 1,2-Dichlorobenzene	146	13.748	13.748	(1.036)	11425	5.00000	5.007
81 1,2-Dibromo 3-Chloropropane	75	14.653	14.653	(1.105)	1484	5.00000	5.434
82 1,2,4-Trichlorobenzene	180	15.698	15.698	(1.183)	8198	5.00000	5.034
83 Hexachloro 1,3-Butadiene	225	15.849	15.849	(1.195)	4642	5.00000	4.962
84 Naphthalene	128	16.020	16.020	(1.208)	19726	5.00000	5.495
85 1,2,3-Trichlorobenzene	180	16.311	16.311	(1.230)	8454	5.00000	5.266

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: /chem1/finn5.i/09MAR11.b/0050309.d
Report Date: 10-Mar-2011 09:38

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: finn5.i
Lab File ID: 0050309.d
Lab Smp Id: IC0309
Analysis Type: VOA
Quant Type: ISTD
Operator: PB
Method File: /chem1/finn5.i/09MAR11.b/s8260b.m
Misc Info: 11-

Calibration Date: 09-MAR-2011
Calibration Time: 15:22
Client Smp ID: VSTD5
Level: LOW
Sample Type: SOIL

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
23 Pentafluorobenzen	91022	45511	182044	88818	-2.42
34 1,4-Difluorobenze	153104	76552	306208	146219	-4.50
52 d5-Chlorobenzene	143720	71860	287440	137327	-4.45
76 d4-1,4-Dichlorobe	77398	38699	154796	75310	-2.70

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	6.44	5.94	6.94	6.44	0.00
34 1,4-Difluorobenze	7.45	6.95	7.95	7.45	0.00
52 d5-Chlorobenzene	10.59	10.09	11.09	10.58	-0.09
76 d4-1,4-Dichlorobe	13.28	12.78	13.78	13.27	-0.08

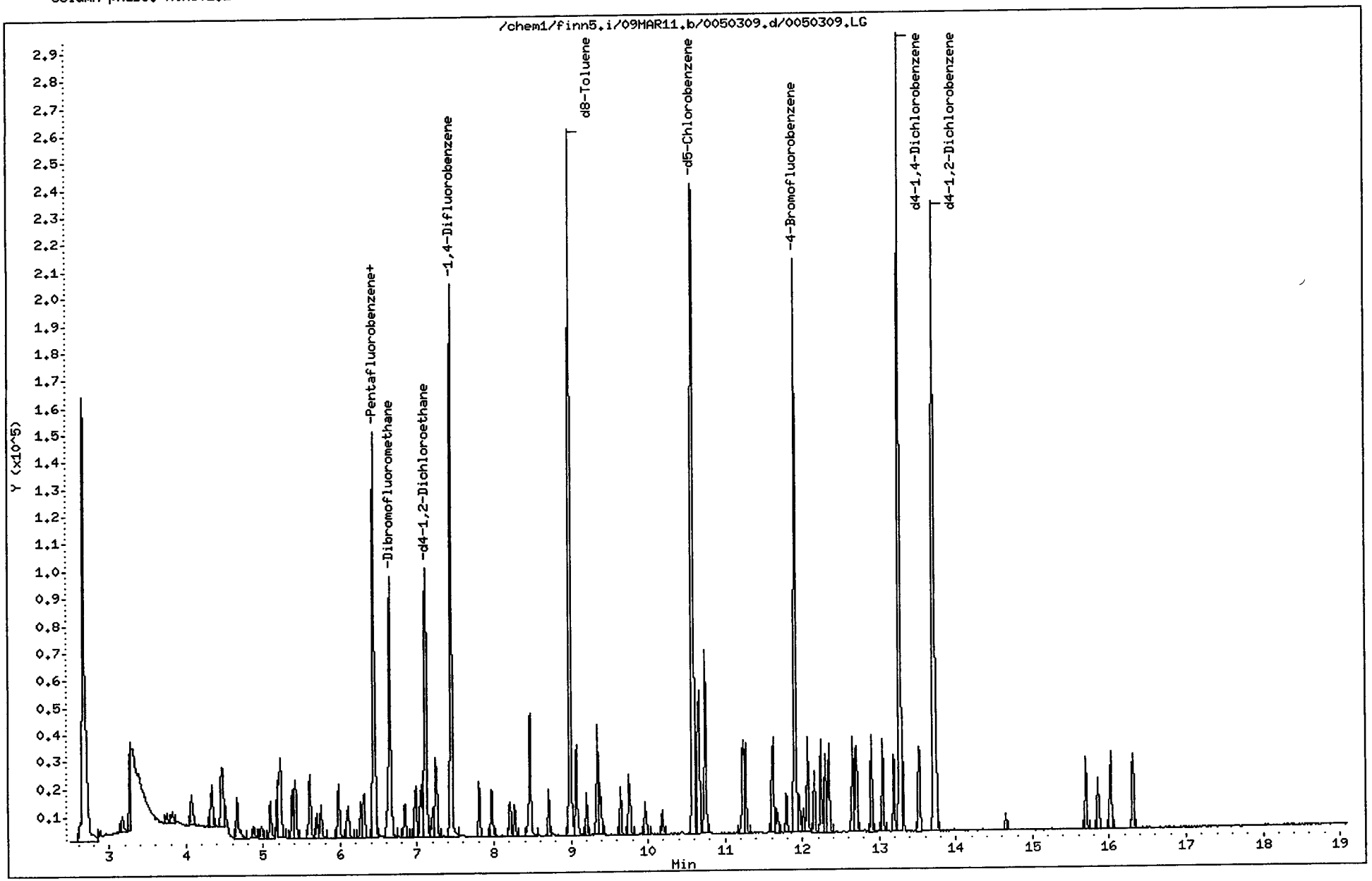
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem1/finn5.i/09MAR11.b/0050309.d
Date : 09-MAR-2011 16:18
Client ID: VSTD5
Sample Info: IC0309,5,5,0

Column phase: Rtx502.2

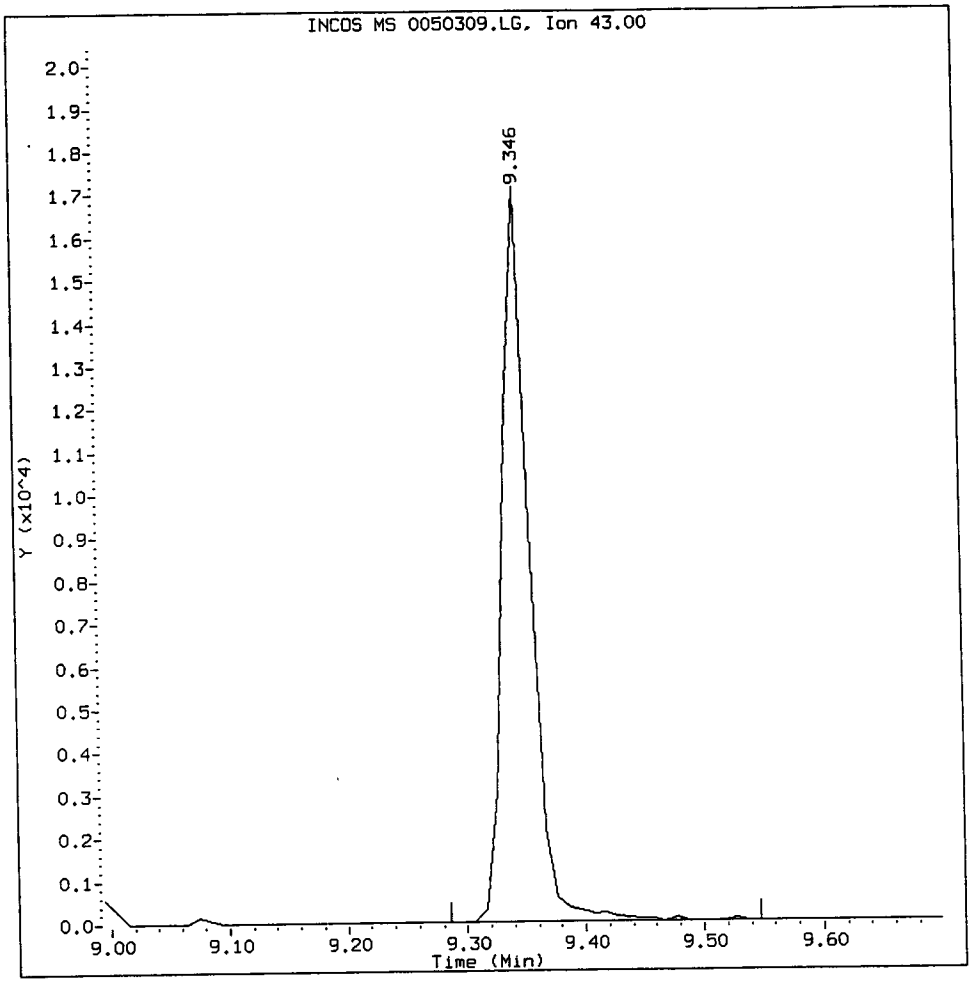
Instrument: finn5.i

Operator: PB
Column diameter: 0.18



IC0309, /chem1/finn5.i/09MAR11.b/0050309.d

2-Hexanone Amount: 28.51 Area: 27639



MANUAL INTEGRATION for 2-Hexanone

1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: _____ Date: _____

:O-ELUTION SUMMARY FOR FILE - 0050309.d

.ab ID: IC0309, Method: s8260b.m, Instrument: finn5.i, Date: 09-MAR-2011

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Analytical Resources, Inc.

8260C

Data file : /chem1/finn5.i/09MAR11.b/0100309.d
Lab Smp Id: IC0309 Client Smp ID: VSTD10
Inj Date : 09-MAR-2011 15:50
Operator : PB Inst ID: finn5.i
Smp Info : IC0309,5,5,0
Misc Info : 11-
Comment :
Method : /chem1/finn5.i/09MAR11.b/s8260b.m
Meth Date : 10-Mar-2011 09:38 patrickb Quant Type: ISTD
Cal Date : 09-MAR-2011 15:50 Cal File: 0100309.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	5.00000	Sample Amount
M	0.00000	Moisture (%)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	ON-COL (ug/Kg)
1 Dichlorodifluoromethane	85	2.894	2.894	(0.449)	9444	10.0000	9.680
2 Chloromethane	50	3.176	3.176	(0.492)	15773	10.0000	9.269
3 Vinyl Chloride	62	3.286	3.286	(0.509)	20276	10.0000	9.572(Q)
4 Bromomethane	94	3.759	3.759	(0.583)	6390	10.0000	8.698
5 Chloroethane	64	3.829	3.829	(0.593)	16729	10.0000	11.856
6 Trichlorofluoromethane	101	4.080	4.080	(0.632)	19743	10.0000	10.283
7 Acrolein	56	4.472	4.472	(0.693)	15354	50.0000	51.792
8 112Trichloro122Trifluoroethane	101	4.482	4.482	(0.695)	15792	10.0000	10.334
9 Acetone	43	4.522	4.522	(0.701)	22354	50.0000	50.922
10 1,1-Dichloroethene	96	4.673	4.673	(0.724)	11272	10.0000	10.600
11 Bromoethane	108	4.884	4.884	(0.757)	8314	10.0000	9.954
12 Iodomethane	142	4.985	4.985	(0.773)	8616	10.0000	8.669
13 Methylene Chloride	84	5.105	5.105	(0.791)	13124	10.0000	10.328
14 Acrylonitrile	53	5.196	5.196	(0.805)	5221	10.0000	10.664(Q)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	ON-COL (ug/Kg)
	16 Methyl tert-Butyl Ether	73	5.236	5.236	(0.812)	57077	10.0000	10.925(Q)
	15 Carbon Disulfide	76	5.196	5.196	(0.805)	40457	10.0000	10.059
	17 Trans-1,2-Dichloroethene	96	5.387	5.387	(0.835)	12485	10.0000	10.184
	18 Vinyl Acetate	43	5.708	5.708	(0.885)	23967	10.0000	10.054
	19 1,1-Dichloroethane	63	5.759	5.759	(0.893)	22376	10.0000	10.044
	20 2-Butanone	43	6.110	6.110	(0.947)	33819	50.0000	53.353
	21 2,2-Dichloropropane	77	6.281	6.281	(0.974)	14611	10.0000	9.843
	22 Cis-1,2-Dichloroethene	96	6.321	6.321	(0.980)	13615	10.0000	10.471
*	23 Pentafluorobenzene	168	6.452	6.452	(1.000)	96215	50.0000	
	24 Chloroform	83	6.462	6.462	(1.002)	21175	10.0000	10.216
	26 Bromochloromethane	128	6.623	6.623	(1.026)	6811	10.0000	10.011
$	25 Dibromofluoromethane	111	6.663	6.663	(1.033)	58072	50.0000	50.776(Q)
	27 1,1,1-Trichloroethane	97	6.854	6.854	(1.062)	16116	10.0000	10.098
	29 1,1-Dichloropropene	75	6.995	6.995	(0.938)	16557	10.0000	10.089
	30 Carbon Tetrachloride	117	7.105	7.105	(0.953)	14903	10.0000	9.980
$	31 d4-1,2-Dichloroethane	65	7.125	7.125	(1.104)	57397	50.0000	54.180
	32 1,2-Dichloroethane	62	7.216	7.216	(0.968)	14388	10.0000	10.626
	33 Benzene	78	7.256	7.256	(0.973)	46789	10.0000	10.922
*	34 1,4-Difluorobenzene	114	7.457	7.457	(1.000)	152421	50.0000	
	35 Trichloroethene	95	7.819	7.819	(1.049)	12821	10.0000	10.203
	36 1,2-Dichloropropane	63	7.990	7.990	(1.071)	14037	10.0000	10.431
	37 Bromodichloromethane	83	8.221	8.221	(1.102)	15399	10.0000	10.098
	39 Dibromomethane	93	8.281	8.281	(1.111)	8498	10.0000	10.654
	40 2-Chloroethyl Vinyl Ether	63	8.442	8.442	(1.132)	2760	10.0000	9.520(Q)
	41 4-Methyl-2-Pentanone	58	8.482	8.482	(1.137)	27341	50.0000	55.930
	42 Cis 1,3-dichloropropene	75	8.723	8.723	(1.170)	17736	10.0000	9.883
$	43 d8-Toluene	98	9.005	9.005	(1.208)	175093	50.0000	50.816
	44 Toluene	92	9.085	9.085	(1.218)	28173	10.0000	10.314
	45 Trans 1,3-Dichloropropene	75	9.216	9.216	(1.236)	14913	10.0000	9.826
	46 2-Hexanone	43	9.357	9.357	(0.882)	62536	50.0000	58.680
	47 1,1,2-Trichloroethane	97	9.397	9.397	(1.260)	10523	10.0000	10.407
	48 1,3-Dichloropropane	76	9.658	9.658	(0.911)	19351	10.0000	10.079
	49 Tetrachloroethene	166	9.769	9.769	(0.921)	13484	10.0000	9.684
	50 Chlorodibromomethane	129	9.980	9.980	(0.941)	13035	10.0000	9.518
	51 1,2-Dibromoethane	107	10.201	10.201	(1.368)	11964	10.0000	10.215
*	52 d5-Chlorobenzene	117	10.603	10.603	(1.000)	150937	50.0000	
	53 Chlorobenzene	112	10.643	10.643	(1.004)	31652	10.0000	10.142
	54 Ethyl Benzene	91	10.673	10.673	(1.007)	51241	10.0000	10.693
	55 1,1,1,2-Tetrachloroethane	131	10.663	10.663	(1.006)	11385	10.0000	9.824
	56 m,p-xylene	106	10.753	10.753	(1.014)	39787	20.0000	20.457
	57 o-Xylene	106	11.246	11.246	(1.061)	19886	10.0000	9.841
	58 Styrene	104	11.276	11.276	(1.063)	32989	10.0000	10.228
	59 Isopropyl Benzene	105	11.628	11.628	(0.876)	50786	10.0000	10.298
	60 Bromoform	173	11.678	11.678	(0.880)	9524	10.0000	9.715
	61 1,1,2,2-Tetrachloroethane	83	11.809	11.809	(0.889)	17158	10.0000	10.212
$	62 4-Bromofluorobenzene	95	11.919	11.919	(1.124)	79831	50.0000	51.527
	63 1,2,3-Trichloropropane	110	11.980	11.980	(0.902)	4211	10.0000	10.391

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
65	Trans-1,4-Dichloro 2-Butene	53	12.030	12.030	(0.906)	4354	10.0000	9.952
66	N-Propyl Benzene	91	12.080	12.080	(0.910)	58463	10.0000	10.658
67	Bromobenzene	156	12.160	12.160	(0.916)	15034	10.0000	9.835
68	1,3,5-Trimethyl Benzene	105	12.251	12.251	(0.923)	39297	10.0000	9.996
69	2-Chloro Toluene	91	12.311	12.311	(0.927)	39581	10.0000	10.436
70	4-Chloro Toluene	91	12.351	12.351	(0.930)	39810	10.0000	10.171
71	T-Butyl Benzene	119	12.663	12.663	(0.954)	37343	10.0000	9.897
72	1,2,4-Trimethylbenzene	105	12.713	12.713	(0.958)	40068	10.0000	10.153
73	S-Butyl Benzene	105	12.904	12.904	(0.972)	55620	10.0000	10.573
74	4-Isopropyl Toluene	119	13.055	13.055	(0.983)	41760	10.0000	10.128
75	1,3-Dichlorobenzene	146	13.196	13.196	(0.994)	26146	10.0000	9.749
* 76	d4-1,4-Dichlorobenzene	152	13.276	13.276	(1.000)	82958	50.0000	
77	1,4-Dichlorobenzene	146	13.316	13.316	(1.003)	25730	10.0000	9.637
78	N-Butyl Benzene	91	13.537	13.537	(1.020)	41567	10.0000	10.221
$ 79	d4-1,2-Dichlorobenzene	152	13.728	13.728	(1.034)	73423	50.0000	49.836
80	1,2-Dichlorobenzene	146	13.758	13.758	(1.036)	25019	10.0000	9.953
81	1,2-Dibromo 3-Chloropropane	75	14.663	14.663	(1.104)	3223	10.0000	10.713
82	1,2,4-Trichlorobenzene	180	15.708	15.708	(1.183)	17992	10.0000	10.031
83	Hexachloro 1,3-Butadiene	225	15.859	15.859	(1.195)	10856	10.0000	10.534
84	Naphthalene	128	16.030	16.030	(1.207)	44516	10.0000	11.257
85	1,2,3-Trichlorobenzene	180	16.321	16.321	(1.229)	18907	10.0000	10.692

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: /chem1/finn5.i/09MAR11.b/0100309.d
Report Date: 10-Mar-2011 09:38

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: finn5.i
Lab File ID: 0100309.d
Lab Smp Id: IC0309
Analysis Type: VOA
Quant Type: ISTD
Operator: PB
Method File: /chem1/finn5.i/09MAR11.b/s8260b.m
Misc Info: 11-

Calibration Date: 09-MAR-2011
Calibration Time: 15:22
Client Smp ID: VSTD10
Level: LOW
Sample Type: SOIL

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
23 Pentafluorobenzen	91022	45511	182044	96215	5.71
34 1,4-Difluorobenze	153104	76552	306208	152421	-0.45
52 d5-Chlorobenzene	143720	71860	287440	150937	5.02
76 d4-1,4-Dichlorobe	77398	38699	154796	82958	7.18

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	6.44	5.94	6.94	6.45	0.16
34 1,4-Difluorobenze	7.45	6.95	7.95	7.46	0.13
52 d5-Chlorobenzene	10.59	10.09	11.09	10.60	0.09
76 d4-1,4-Dichlorobe	13.28	12.78	13.78	13.28	0.00

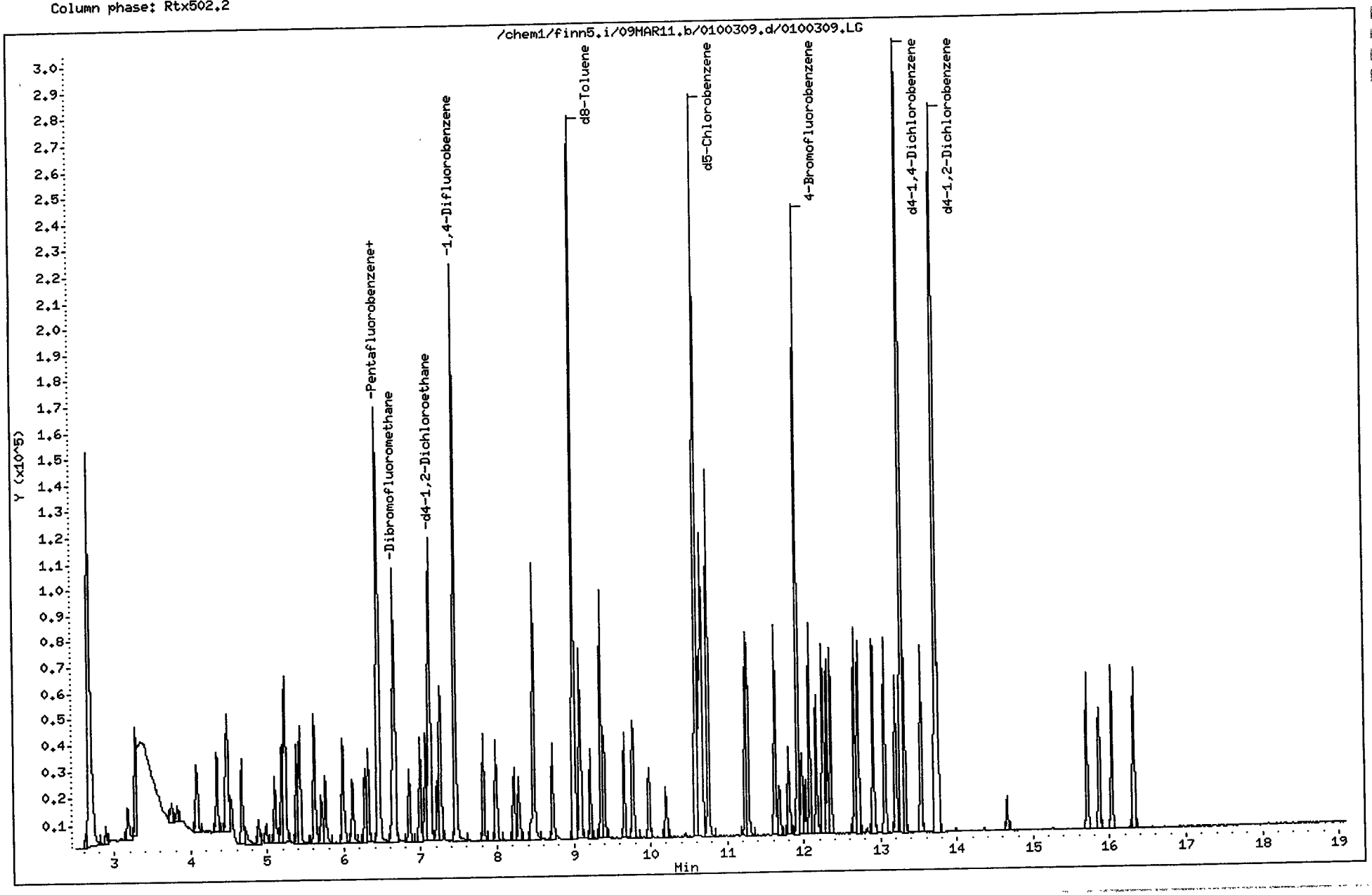
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem1/finn5.i/09MAR11.b/0100309.d
Date : 09-MAR-2011 15:50
Client ID: VSTD10
Sample Info: IC0309,5,5,0

Instrument: finn5.i

Operator: PB
Column diameter: 0.18

Column phase: Rtx502.2



CO-ELUTION SUMMARY FOR FILE - 0100309.d

Lab ID: IC0309, Method: s8260b.m, Instrument: finn5.i, Date: 09-MAR-2011

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Analytical Resources, Inc.

8260C

Data file : /chem1/finn5.i/09MAR11.b/0500309.d
Lab Smp Id: IC0309 Client Smp ID: VSTD50
Inj Date : 09-MAR-2011 15:22
Operator : PB Inst ID: finn5.i
Smp Info : IC0309,5,5,0
Misc Info : 11-
Comment :
Method : /chem1/finn5.i/09MAR11.b/s8260b.m
Meth Date : 10-Mar-2011 09:38 patrickb Quant Type: ISTD
Cal Date : 09-MAR-2011 15:22 Cal File: 0500309.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	5.00000	Sample Amount
M	0.00000	Moisture (%)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
1 Dichlorodifluoromethane	85	2.884	2.884	(0.448)	49516	50.0000	53.652
2 Chloromethane	50	3.176	3.176	(0.493)	75061	50.0000	46.626
3 Vinyl Chloride	62	3.276	3.276	(0.509)	104779	50.0000	52.286
4 Bromomethane	94	3.759	3.759	(0.583)	32989	50.0000	47.465
5 Chloroethane	64	3.829	3.829	(0.594)	62670	50.0000	46.947
6 Trichlorofluoromethane	101	4.080	4.080	(0.633)	89679	50.0000	49.372
7 Acrolein	56	4.462	4.462	(0.693)	71616	250.000	255.36
8 112Trichloro122Trifluoroethane	101	4.472	4.472	(0.694)	70900	50.0000	49.041
9 Acetone	43	4.522	4.522	(0.702)	98453	250.000	237.07
10 1,1-Dichloroethene	96	4.673	4.673	(0.725)	49321	50.0000	49.025
11 Bromoethane	108	4.884	4.884	(0.758)	40921	50.0000	51.787
12 Iodomethane	142	4.985	4.985	(0.774)	52308	50.0000	55.634
13 Methylene Chloride	84	5.095	5.095	(0.791)	59659	50.0000	49.628
14 Acrylonitrile	53	5.186	5.186	(0.805)	23430	50.0000	50.585

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
	16 Methyl tert-Butyl Ether	73	5.226	5.226	(0.811)	263067	50.0000	53.227
	15 Carbon Disulfide	76	5.196	5.196	(0.807)	192920	50.0000	50.703
	17 Trans-1,2-Dichloroethene	96	5.377	5.377	(0.835)	56487	50.0000	48.706
	18 Vinyl Acetate	43	5.708	5.708	(0.886)	113676	50.0000	50.408
	19 1,1-Dichloroethane	63	5.759	5.759	(0.894)	106850	50.0000	50.699
	20 2-Butanone	43	6.100	6.100	(0.947)	155263	250.000	258.92
	21 2,2-Dichloropropane	77	6.271	6.271	(0.973)	71576	50.0000	50.969
	22 Cis-1,2-Dichloroethene	96	6.311	6.311	(0.980)	61152	50.0000	49.715
*	23 Pentafluorobenzene	168	6.442	6.442	(1.000)	91022	50.0000	
	24 Chloroform	83	6.462	6.462	(1.003)	97860	50.0000	49.909
	26 Bromochloromethane	128	6.623	6.623	(1.028)	32786	50.0000	50.938
$	25 Dibromofluoromethane	111	6.653	6.653	(1.033)	54988	50.0000	50.823
	27 1,1,1-Trichloroethane	97	6.844	6.844	(1.062)	77324	50.0000	51.216
	29 1,1-Dichloropropene	75	6.985	6.985	(0.938)	80021	50.0000	48.543
	30 Carbon Tetrachloride	117	7.105	7.105	(0.954)	72488	50.0000	48.326
$	31 d4-1,2-Dichloroethane	65	7.115	7.115	(1.105)	51586	50.0000	51.473
	32 1,2-Dichloroethane	62	7.206	7.206	(0.968)	66943	50.0000	49.220
	33 Benzene	78	7.256	7.256	(0.974)	219870	50.0000	51.096
*	34 1,4-Difluorobenzene	114	7.447	7.447	(1.000)	153104	50.0000	
	35 Trichloroethene	95	7.819	7.819	(1.050)	61657	50.0000	48.848
	36 1,2-Dichloropropane	63	7.980	7.980	(1.072)	67104	50.0000	49.641
	37 Bromodichloromethane	83	8.211	8.211	(1.103)	76336	50.0000	49.834
	39 Dibromomethane	93	8.281	8.281	(1.112)	39833	50.0000	49.716
	40 2-Chloroethyl Vinyl Ether	63	8.432	8.432	(1.132)	13305	50.0000	45.690
	41 4-Methyl-2-Pentanone	58	8.472	8.472	(1.138)	128402	250.000	261.49
	42 Cis 1,3-dichloropropene	75	8.723	8.723	(1.171)	91723	50.0000	50.883
$	43 d8-Toluene	98	8.995	8.995	(1.208)	171700	50.0000	49.609
	44 Toluene	92	9.075	9.075	(1.219)	135178	50.0000	49.267
	45 Trans 1,3-Dichloropropene	75	9.206	9.206	(1.236)	76595	50.0000	50.241
	46 2-Hexanone	43	9.346	9.346	(0.882)	274788	250.000	270.79
	47 1,1,2-Trichloroethane	97	9.387	9.387	(1.260)	49677	50.0000	48.910
	48 1,3-Dichloropropane	76	9.648	9.648	(0.911)	93469	50.0000	51.128
	49 Tetrachloroethene	166	9.769	9.769	(0.922)	64191	50.0000	48.416
	50 Chlorodibromomethane	129	9.970	9.970	(0.941)	65095	50.0000	49.920
	51 1,2-Dibromoethane	107	10.191	10.191	(1.368)	58696	50.0000	49.894
*	52 d5-Chlorobenzene	117	10.593	10.593	(1.000)	143720	50.0000	
	53 Chlorobenzene	112	10.633	10.633	(1.004)	147035	50.0000	49.478
	54 Ethyl Benzene	91	10.673	10.673	(1.008)	241040	50.0000	52.826
	55 1,1,1,2-Tetrachloroethane	131	10.663	10.663	(1.007)	53440	50.0000	48.429
	56 m,p-xylene	106	10.753	10.753	(1.015)	187093	100.000	101.03
	57 o-Xylene	106	11.236	11.236	(1.061)	95635	50.0000	49.704
	58 Styrene	104	11.266	11.266	(1.064)	152705	50.0000	49.725
	59 Isopropyl Benzene	105	11.618	11.618	(0.875)	242753	50.0000	52.759
	60 Bromoform	173	11.678	11.678	(0.880)	45488	50.0000	49.736
	61 1,1,2,2-Tetrachloroethane	83	11.799	11.799	(0.889)	78083	50.0000	49.814
$	62 4-Bromofluorobenzene	95	11.919	11.919	(1.125)	74474	50.0000	50.483
	63 1,2,3-Trichloropropane	110	11.970	11.970	(0.902)	18721	50.0000	49.514

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
	65 Trans-1,4-Dichloro 2-Butene	53	12.020	12.020	(0.905)	20135	50.0000	49.329
	66 N-Propyl Benzene	91	12.070	12.070	(0.909)	276002	50.0000	53.934
	67 Bromobenzene	156	12.160	12.160	(0.916)	68356	50.0000	47.930
	68 1,3,5-Trimethyl Benzene	105	12.251	12.251	(0.923)	188948	50.0000	51.513
	69 2-Chloro Toluene	91	12.301	12.301	(0.927)	170472	50.0000	48.174
	70 4-Chloro Toluene	91	12.351	12.351	(0.930)	185813	50.0000	50.884
	71 T-Butyl Benzene	119	12.653	12.653	(0.953)	174332	50.0000	49.521
	72 1,2,4-Trimethylbenzene	105	12.703	12.703	(0.957)	188064	50.0000	51.080
	73 S-Butyl Benzene	105	12.904	12.904	(0.972)	259044	50.0000	52.778
	74 4-Isopropyl Toluene	119	13.045	13.045	(0.983)	198898	50.0000	51.704
	75 1,3-Dichlorobenzene	146	13.196	13.196	(0.994)	120481	50.0000	48.149
*	76 d4-1,4-Dichlorobenzene	152	13.276	13.276	(1.000)	77398	50.0000	
	77 1,4-Dichlorobenzene	146	13.306	13.306	(1.002)	117973	50.0000	47.359
	78 N-Butyl Benzene	91	13.527	13.527	(1.019)	197954	50.0000	52.174
$	79 d4-1,2-Dichlorobenzene	152	13.718	13.718	(1.033)	69685	50.0000	50.696
	80 1,2-Dichlorobenzene	146	13.748	13.748	(1.036)	112094	50.0000	47.797
	81 1,2-Dibromo 3-Chloropropane	75	14.653	14.653	(1.104)	13668	50.0000	48.696
	82 1,2,4-Trichlorobenzene	180	15.698	15.698	(1.182)	82354	50.0000	49.211
	83 Hexachloro 1,3-Butadiene	225	15.859	15.859	(1.195)	44935	50.0000	46.734
	84 Naphthalene	128	16.020	16.020	(1.207)	187007	50.0000	50.687
	85 1,2,3-Trichlorobenzene	180	16.311	16.311	(1.229)	79113	50.0000	47.951

Data File: /chem1/finn5.i/09MAR11.b/0500309.d
Report Date: 10-Mar-2011 09:38

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: finn5.i
Lab File ID: 0500309.d
Lab Smp Id: IC0309
Analysis Type: VOA
Quant Type: ISTD
Operator: PB
Method File: /chem1/finn5.i/09MAR11.b/s8260b.m
Misc Info: 11-

Calibration Date: 09-MAR-2011
Calibration Time: 15:22
Client Smp ID: VSTD50
Level: LOW
Sample Type: SOIL

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
23 Pentafluorobenzen	91022	45511	182044	91022	0.00
34 1,4-Difluorobenze	153104	76552	306208	153104	0.00
52 d5-Chlorobenzene	143720	71860	287440	143720	0.00
76 d4-1,4-Dichlorobe	77398	38699	154796	77398	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	6.44	5.94	6.94	6.44	0.00
34 1,4-Difluorobenze	7.45	6.95	7.95	7.45	0.00
52 d5-Chlorobenzene	10.59	10.09	11.09	10.59	0.00
76 d4-1,4-Dichlorobe	13.28	12.78	13.78	13.28	0.00

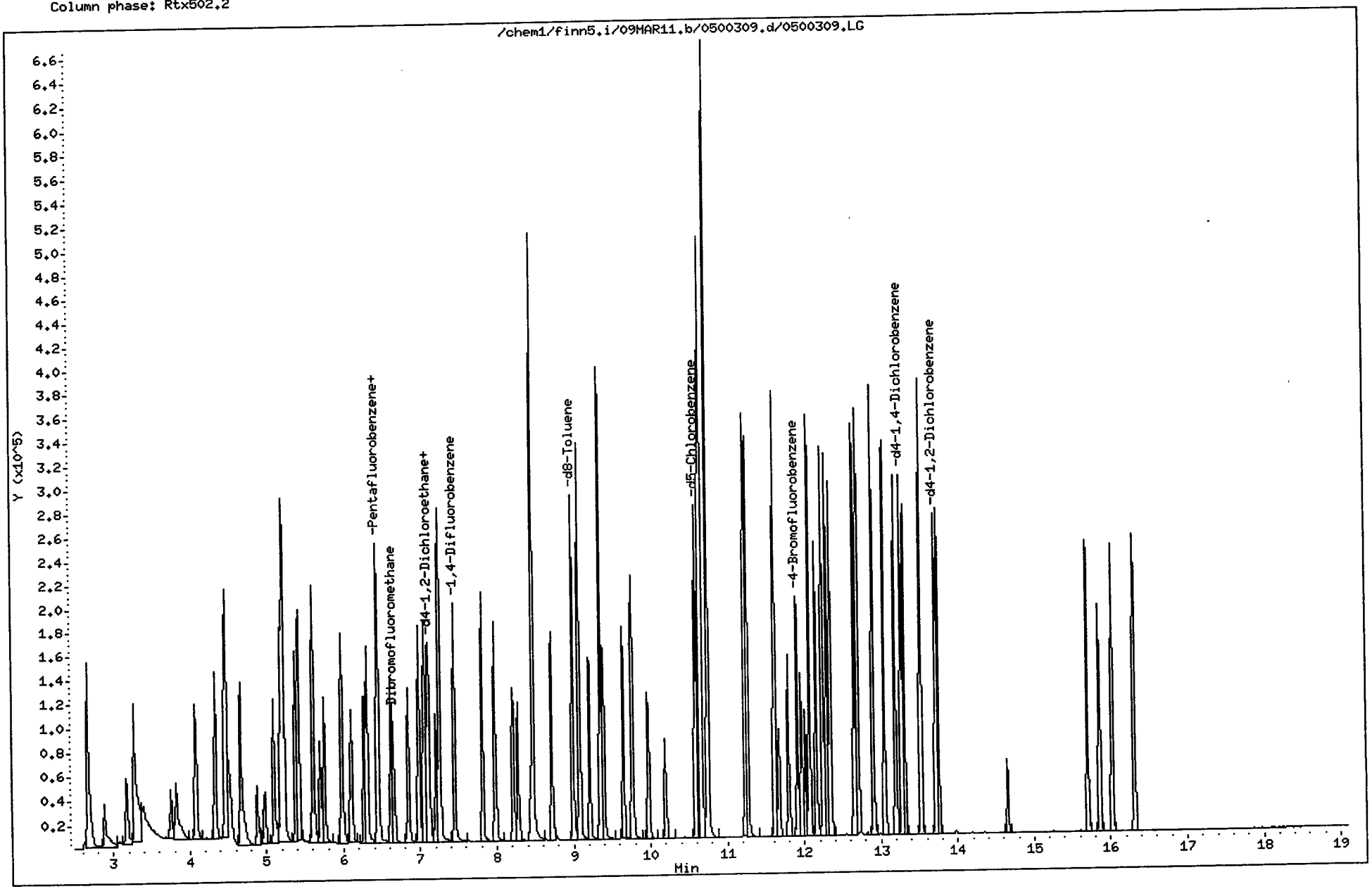
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem1/finn5.i/09MAR11.b/0500309.d
Date : 09-MAR-2011 15:22
Client ID: VSTD50
Sample Info: IC0309,5,5,0

Instrument: finn5.i

Operator: PB
Column diameter: 0.18

Column phase: Rtx502.2



CO-ELUTION SUMMARY FOR FILE - 0500309.d

Lab ID: IC0309, Method: s8260b.m, Instrument: finn5.i, Date: 09-MAR-2011

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Analytical Resources, Inc.

8260C

Data file : /chem1/finn5.i/09MAR11.b/1000309.d
Lab Smp Id: IC0309 Client Smp ID: VSTD100
Inj Date : 09-MAR-2011 14:55
Operator : PB Inst ID: finn5.i
Smp Info : IC0309,5,5,0
Misc Info : 11-
Comment :
Method : /chem1/finn5.i/09MAR11.b/s8260b.m
Meth Date : 10-Mar-2011 09:38 patrickb Quant Type: ISTD
Cal Date : 09-MAR-2011 14:55 Cal File: 1000309.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	5.00000	Sample Amount
M	0.00000	Moisture (%)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
1 Dichlorodifluoromethane	85	2.874	2.874	(0.447)	101882	100.000	101.00
2 Chloromethane	50	3.156	3.156	(0.491)	159069	100.000	90.407
3 Vinyl Chloride	62	3.266	3.266	(0.508)	193055	100.000	88.146
4 Bromomethane	94	3.739	3.739	(0.581)	85118	100.000	112.05
5 Chloroethane	64	3.809	3.809	(0.592)	133531	100.000	91.525
6 Trichlorofluoromethane	101	4.060	4.060	(0.631)	190813	100.000	96.119
7 Acrolein	56	4.452	4.452	(0.692)	148254	500.000	483.67
8 112Trichloro122Trifluoroethane	101	4.462	4.462	(0.694)	149706	100.000	94.746
9 Acetone	43	4.502	4.502	(0.700)	199512	500.000	439.57
10 1,1-Dichloroethene	96	4.653	4.653	(0.723)	108647	100.000	98.812
11 Bromoethane	108	4.864	4.864	(0.756)	87187	100.000	100.96
12 Iodomethane	142	4.965	4.965	(0.772)	103623	100.000	100.84
13 Methylene Chloride	84	5.085	5.085	(0.791)	127145	100.000	96.775
14 Acrylonitrile	53	5.176	5.176	(0.805)	49765	100.000	98.306(Q)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	ON-COL (ug/Kg)
	16 Methyl tert-Butyl Ether	73	5.216	5.216	(0.811)	557782	100.000	103.26(Q)
	15 Carbon Disulfide	76	5.176	5.176	(0.805)	410266	100.000	98.657
	17 Trans-1,2-Dichloroethene	96	5.367	5.367	(0.834)	125143	100.000	98.730
	18 Vinyl Acetate	43	5.688	5.688	(0.884)	252668	100.000	102.52
	19 1,1-Dichloroethane	63	5.739	5.739	(0.892)	228308	100.000	99.118
	20 2-Butanone	43	6.090	6.090	(0.947)	331375	500.000	505.62
	21 2,2-Dichloropropane	77	6.261	6.261	(0.973)	157835	100.000	102.84
	22 Cis-1,2-Dichloroethene	96	6.301	6.301	(0.980)	134440	100.000	100.00
*	23 Pentafluorobenzene	168	6.432	6.432	(1.000)	99481	50.0000	
	24 Chloroform	83	6.442	6.442	(1.002)	215220	100.000	100.43
	26 Bromochloromethane	128	6.603	6.603	(1.027)	71415	100.000	101.52
$	25 Dibromofluoromethane	111	6.643	6.643	(1.033)	58775	50.0000	49.704(Q)
	27 1,1,1-Trichloroethane	97	6.834	6.834	(1.062)	170558	100.000	103.36
	29 1,1-Dichloropropene	75	6.975	6.975	(0.938)	175406	100.000	101.55
	30 Carbon Tetrachloride	117	7.085	7.085	(0.953)	156467	100.000	99.554
$	31 d4-1,2-Dichloroethane	65	7.105	7.105	(1.105)	52833	50.0000	48.234
	32 1,2-Dichloroethane	62	7.196	7.196	(0.968)	143771	100.000	100.88
	33 Benzene	78	7.236	7.236	(0.973)	456083	100.000	101.15
*	34 1,4-Difluorobenzene	114	7.437	7.437	(1.000)	160423	50.0000	
	35 Trichloroethene	95	7.799	7.799	(1.049)	136947	100.000	103.55
	36 1,2-Dichloropropane	63	7.970	7.970	(1.072)	146047	100.000	103.11
	37 Bromodichloromethane	83	8.201	8.201	(1.103)	165051	100.000	102.83
	39 Dibromomethane	93	8.271	8.271	(1.112)	84606	100.000	100.78
	40 2-Chloroethyl Vinyl Ether	63	8.422	8.422	(1.132)	32001	100.000	104.88(Q)
	41 4-Methyl-2-Pentanone	58	8.462	8.462	(1.138)	276012	500.000	536.46(Q)
	42 Cis 1,3-dichloropropene	75	8.703	8.703	(1.170)	204857	100.000	108.46
$	43 d8-Toluene	98	8.975	8.975	(1.207)	183254	50.0000	50.532
	44 Toluene	92	9.065	9.065	(1.219)	298279	100.000	103.75
	45 Trans 1,3-Dichloropropene	75	9.196	9.196	(1.236)	173928	100.000	108.88
	46 2-Hexanone	43	9.336	9.336	(0.882)	504918	500.000	454.06
	47 1,1,2-Trichloroethane	97	9.377	9.377	(1.261)	109553	100.000	102.94
	48 1,3-Dichloropropane	76	9.638	9.638	(0.911)	203537	100.000	101.60
	49 Tetrachloroethene	166	9.748	9.748	(0.921)	144405	100.000	99.390
	50 Chlorodibromomethane	129	9.960	9.960	(0.941)	145154	100.000	101.58
	51 1,2-Dibromoethane	107	10.181	10.181	(1.369)	129681	100.000	105.20
*	52 d5-Chlorobenzene	117	10.583	10.583	(1.000)	157496	50.0000	
	53 Chlorobenzene	112	10.623	10.623	(1.004)	326911	100.000	100.38
	54 Ethyl Benzene	91	10.653	10.653	(1.007)	511234	100.000	102.24
	55 1,1,1,2-Tetrachloroethane	131	10.653	10.653	(1.007)	120530	100.000	99.673
	56 m,p-xylene	106	10.733	10.733	(1.014)	421041	200.000	207.47(Q)
	57 o-Xylene	106	11.226	11.226	(1.061)	216478	100.000	102.67
	58 Styrene	104	11.256	11.256	(1.064)	348389	100.000	103.52
	59 Isopropyl Benzene	105	11.608	11.608	(0.876)	524133	100.000	103.20
	60 Bromoform	173	11.658	11.658	(0.879)	105192	100.000	104.20
	61 1,1,2,2-Tetrachloroethane	83	11.789	11.789	(0.889)	171943	100.000	99.378
$	62 4-Bromofluorobenzene	95	11.899	11.899	(1.124)	81421	50.0000	50.365
	63 1,2,3-Trichloropropane	110	11.959	11.959	(0.902)	41683	100.000	99.876

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	ON-COL (ug/Kg)
65	Trans-1,4-Dichloro 2-Butene	53	12.010	12.010	(0.906)	45287	100.000	100.52
66	N-Propyl Benzene	91	12.060	12.060	(0.910)	562649	100.000	99.608
67	Bromobenzene	156	12.150	12.150	(0.917)	158561	100.000	100.72
68	1,3,5-Trimethyl Benzene	105	12.231	12.231	(0.923)	428507	100.000	105.84
69	2-Chloro Toluene	91	12.291	12.291	(0.927)	393171	100.000	100.66
70	4-Chloro Toluene	91	12.331	12.331	(0.930)	401421	100.000	99.589
71	T-Butyl Benzene	119	12.643	12.643	(0.954)	401350	100.000	103.29
72	1,2,4-Trimethylbenzene	105	12.693	12.693	(0.958)	422465	100.000	103.95
73	S-Butyl Benzene	105	12.884	12.884	(0.972)	556976	100.000	102.81
74	4-Isopropyl Toluene	119	13.035	13.035	(0.983)	449752	100.000	105.92
75	1,3-Dichlorobenzene	146	13.176	13.176	(0.994)	275328	100.000	99.685
* 76	d4-1,4-Dichlorobenzene	152	13.256	13.256	(1.000)	85432	50.0000	
77	1,4-Dichlorobenzene	146	13.296	13.296	(1.003)	271928	100.000	98.896
78	N-Butyl Benzene	91	13.517	13.517	(1.020)	447784	100.000	106.92
$ 79	d4-1,2-Dichlorobenzene	152	13.708	13.708	(1.034)	77002	50.0000	50.751
80	1,2-Dichlorobenzene	146	13.738	13.738	(1.036)	255978	100.000	98.885
81	1,2-Dibromo 3-Chloropropane	75	14.643	14.643	(1.105)	29536	100.000	95.335
82	1,2,4-Trichlorobenzene	180	15.688	15.688	(1.183)	184257	100.000	99.749
83	Hexachloro 1,3-Butadiene	225	15.849	15.849	(1.196)	101551	100.000	95.684
84	Naphthalene	128	16.010	16.010	(1.208)	396257	100.000	97.302
85	1,2,3-Trichlorobenzene	180	16.301	16.301	(1.230)	172629	100.000	94.793

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: finn5.i
Lab File ID: 1000309.d
Lab Smp Id: IC0309
Analysis Type: VOA
Quant Type: ISTD
Operator: PB
Method File: /chem1/finn5.i/09MAR11.b/s8260b.m
Misc Info: 11-

Calibration Date: 09-MAR-2011
Calibration Time: 15:22
Client Smp ID: VSTD100
Level: LOW
Sample Type: SOIL

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
23 Pentafluorobenzen	91022	45511	182044	99481	9.29
34 1,4-Difluorobenze	153104	76552	306208	160423	4.78
52 d5-Chlorobenzene	143720	71860	287440	157496	9.59
76 d4-1,4-Dichlorobe	77398	38699	154796	85432	10.38

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	6.44	5.94	6.94	6.43	-0.16
34 1,4-Difluorobenze	7.45	6.95	7.95	7.44	-0.13
52 d5-Chlorobenzene	10.59	10.09	11.09	10.58	-0.09
76 d4-1,4-Dichlorobe	13.28	12.78	13.78	13.26	-0.15

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.

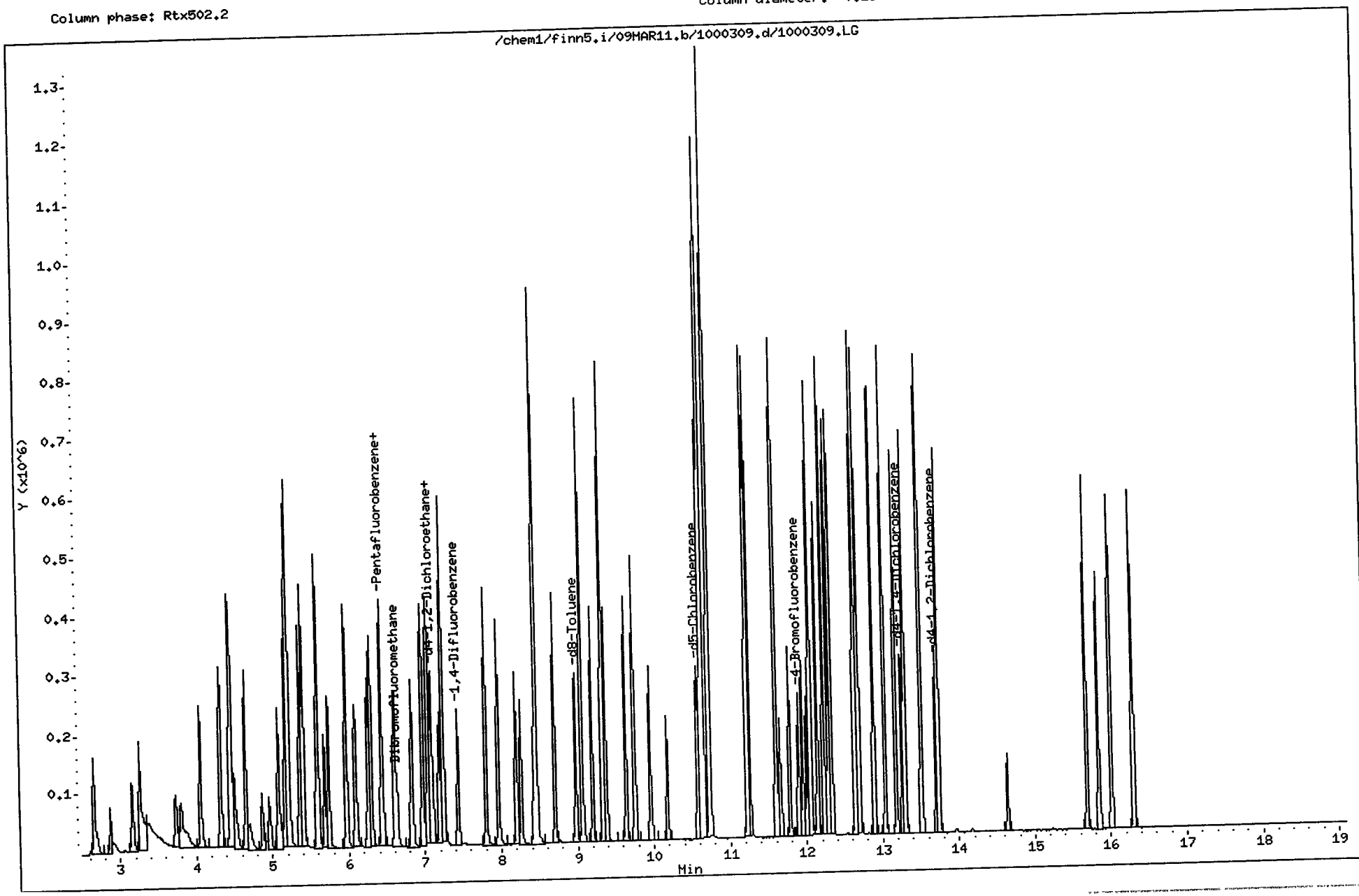
Data File: /chem1/finn5.i/09MAR11.b/1000309.d
Date : 09-MAR-2011 14:55
Client ID: VSTD100
Sample Info: IC0309,5,5,0

Instrument: finn5.i

Operator: PB

Column diameter: 0.18

Column phase: Rtx502.2



O-ELUTION SUMMARY FOR FILE - 1000309.d

ab ID: IC0309, Method: s8260b.m, Instrument: finn5.i, Date: 09-MAR-2011

RT	CO-ELUTION COMPOUNDS
10.653	1,1,1,2-Tetrachloroethane and Ethyl Benzene

Analytical Resources, Inc.

8260C

Data file : /chem1/finn5.i/09MAR11.b/1500309.d
Lab Smp Id: IC0309 Client Smp ID: VSTD150
Inj Date : 09-MAR-2011 14:27
Operator : PB Inst ID: finn5.i
Smp Info : IC0309,5,5,0
Misc Info : 11-
Comment :
Method : /chem1/finn5.i/09MAR11.b/s8260b.m
Meth Date : 10-Mar-2011 09:38 patrickb Quant Type: ISTD
Cal Date : 09-MAR-2011 14:27 Cal File: 1500309.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	5.00000	Sample Amount
M	0.00000	Moisture (%)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
1 Dichlorodifluoromethane	85	2.894	2.894	(0.449)	153132	150.000	152.98
2 Chloromethane	50	3.186	3.186	(0.494)	247044	150.000	141.48
3 Vinyl Chloride	62	3.276	3.276	(0.508)	270854	150.000	124.62
4 Bromomethane	94	3.749	3.749	(0.581)	133651	150.000	177.30
5 Chloroethane	64	3.819	3.819	(0.592)	197735	150.000	136.57
6 Trichlorofluoromethane	101	4.080	4.080	(0.632)	294457	150.000	149.47
7 Acrolein	56	4.472	4.472	(0.693)	217558	750.000	715.22
8 112Trichloro122Trifluoroethane	101	4.472	4.472	(0.693)	231063	150.000	147.36
9 Acetone	43	4.533	4.533	(0.702)	286887	750.000	636.93
10 1,1-Dichloroethene	96	4.673	4.673	(0.724)	168709	150.000	154.62
11 Bromoethane	108	4.884	4.884	(0.757)	130231	150.000	151.96
12 Iodomethane	142	4.985	4.985	(0.773)	144050	150.000	141.26
13 Methylene Chloride	84	5.105	5.105	(0.791)	191848	150.000	147.14
14 Acrylonitrile	53	5.196	5.196	(0.805)	75499	150.000	150.29(Q)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	ON-COL (ug/Kg)
	16 Methyl tert-Butyl Ether	73	5.236	5.236	(0.812)	757054	150.000	141.23(Q)
	15 Carbon Disulfide	76	5.196	5.196	(0.805)	605319	150.000	146.68
	17 Trans-1,2-Dichloroethene	96	5.387	5.387	(0.835)	194914	150.000	154.96
	18 Vinyl Acetate	43	5.708	5.708	(0.885)	396746	150.000	162.21
	19 1,1-Dichloroethane	63	5.759	5.759	(0.893)	353893	150.000	154.82
	20 2-Butanone	43	6.110	6.110	(0.947)	495154	750.000	761.31
	21 2,2-Dichloropropane	77	6.281	6.281	(0.974)	244579	150.000	160.58
	22 Cis-1,2-Dichloroethene	96	6.321	6.321	(0.980)	208628	150.000	156.38
*	23 Pentafluorobenzene	168	6.452	6.452	(1.000)	98723	50.0000	
	24 Chloroform	83	6.462	6.462	(1.002)	323340	150.000	152.04
	26 Bromochloromethane	128	6.623	6.623	(1.026)	110813	150.000	158.74
$	25 Dibromofluoromethane	111	6.663	6.663	(1.033)	54074	50.0000	46.080(Q)
	27 1,1,1-Trichloroethane	97	6.854	6.854	(1.062)	260980	150.000	159.38
	29 1,1-Dichloropropene	75	6.995	6.995	(0.938)	273846	150.000	162.56
	30 Carbon Tetrachloride	117	7.105	7.105	(0.953)	242723	150.000	158.34
$	31 d4-1,2-Dichloroethane	65	7.125	7.125	(1.104)	46955	50.0000	43.197
	32 1,2-Dichloroethane	62	7.216	7.216	(0.968)	215856	150.000	155.30
	33 Benzene	78	7.256	7.256	(0.973)	622979	150.000	141.67
*	34 1,4-Difluorobenzene	114	7.457	7.457	(1.000)	156465	50.0000	
	35 Trichloroethene	95	7.819	7.819	(1.049)	214083	150.000	165.96
	36 1,2-Dichloropropane	63	7.990	7.990	(1.071)	223394	150.000	161.71
	37 Bromodichloromethane	83	8.221	8.221	(1.102)	251727	150.000	160.80
	39 Dibromomethane	93	8.291	8.291	(1.112)	127770	150.000	156.05
	40 2-Chloroethyl Vinyl Ether	63	8.442	8.442	(1.132)	54534	150.000	183.25(Q)
	41 4-Methyl-2-Pentanone	58	8.482	8.482	(1.137)	409048	750.000	815.14(Q)
	42 Cis 1,3-dichloropropene	75	8.723	8.723	(1.170)	318401	150.000	172.84
$	43 d8-Toluene	98	9.005	9.005	(1.208)	177555	50.0000	50.199
	44 Toluene	92	9.085	9.085	(1.218)	457122	150.000	163.02(Q)
	45 Trans 1,3-Dichloropropene	75	9.216	9.216	(1.236)	271220	150.000	174.08
	46 2-Hexanone	43	9.357	9.357	(0.882)	617367	750.000	595.58
	47 1,1,2-Trichloroethane	97	9.397	9.397	(1.260)	166841	150.000	160.74
	48 1,3-Dichloropropane	76	9.658	9.658	(0.911)	310876	150.000	166.47
	49 Tetrachloroethene	166	9.769	9.769	(0.921)	229353	150.000	169.35
	50 Chlorodibromomethane	129	9.980	9.980	(0.941)	223921	150.000	168.10
	51 1,2-Dibromoethane	107	10.201	10.201	(1.368)	200870	150.000	167.08
*	52 d5-Chlorobenzene	117	10.603	10.603	(1.000)	146811	50.0000	
	53 Chlorobenzene	112	10.643	10.643	(1.004)	490565	150.000	161.60
	54 Ethyl Benzene	91	10.673	10.673	(1.007)	662372	150.000	142.11
	55 1,1,1,2-Tetrachloroethane	131	10.673	10.673	(1.007)	187101	150.000	165.98
	56 m,p-xylene	106	10.753	10.753	(1.014)	600414	300.000	317.39(Q)
	57 o-Xylene	106	11.246	11.246	(1.061)	339319	150.000	172.64(Q)
	58 Styrene	104	11.276	11.276	(1.063)	514319	150.000	163.95
	59 Isopropyl Benzene	105	11.628	11.628	(0.876)	696152	150.000	153.11
	60 Bromoform	173	11.678	11.678	(0.880)	161303	150.000	178.48
	61 1,1,2,2-Tetrachloroethane	83	11.809	11.809	(0.889)	249460	150.000	161.05
$	62 4-Bromofluorobenzene	95	11.919	11.919	(1.124)	73575	50.0000	48.824
	63 1,2,3-Trichloropropane	110	11.980	11.980	(0.902)	61395	150.000	164.32

Data File: /chem1/finn5.i/09MAR11.b/1500309.d
Report Date: 10-Mar-2011 09:38

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
	65 Trans-1,4-Dichloro 2-Butene	53	12.030	12.030	(0.906)	66330	150.000	164.45
	66 N-Propyl Benzene	91	12.080	12.080	(0.910)	703436	150.000	139.10
	67 Bromobenzene	156	12.171	12.171	(0.917)	244780	150.000	173.69
	68 1,3,5-Trimethyl Benzene	105	12.251	12.251	(0.923)	585844	150.000	161.63
	69 2-Chloro Toluene	91	12.311	12.311	(0.927)	550084	150.000	157.31
	70 4-Chloro Toluene	91	12.351	12.351	(0.930)	558282	150.000	154.71
	71 T-Butyl Benzene	119	12.663	12.663	(0.954)	585174	150.000	168.21
	72 1,2,4-Trimethylbenzene	105	12.713	12.713	(0.958)	590216	150.000	162.23
	73 S-Butyl Benzene	105	12.914	12.914	(0.973)	718191	150.000	148.08
	74 4-Isopropyl Toluene	119	13.055	13.055	(0.983)	610074	150.000	160.49
	75 1,3-Dichlorobenzene	146	13.206	13.206	(0.995)	420966	150.000	170.25
*	76 d4-1,4-Dichlorobenzene	152	13.276	13.276	(1.000)	76483	50.0000	
	77 1,4-Dichlorobenzene	146	13.316	13.316	(1.003)	416071	150.000	169.02
	78 N-Butyl Benzene	91	13.537	13.537	(1.020)	591911	150.000	157.87
$	79 d4-1,2-Dichlorobenzene	152	13.728	13.728	(1.034)	67563	50.0000	49.740
	80 1,2-Dichlorobenzene	146	13.758	13.758	(1.036)	384744	150.000	166.02
	81 1,2-Dibromo 3-Chloropropane	75	14.663	14.663	(1.104)	42057	150.000	151.63
	82 1,2,4-Trichlorobenzene	180	15.708	15.708	(1.183)	277194	150.000	167.62
	83 Hexachloro 1,3-Butadiene	225	15.869	15.869	(1.195)	152625	150.000	160.63
	84 Naphthalene	128	16.030	16.030	(1.207)	529110	150.000	145.13
	85 1,2,3-Trichlorobenzene	180	16.321	16.321	(1.229)	253196	150.000	155.30

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: finn5.i
Lab File ID: 1500309.d
Lab Smp Id: IC0309
Analysis Type: VOA
Quant Type: ISTD
Operator: PB
Method File: /chem1/finn5.i/09MAR11.b/s8260b.m
Misc Info: 11-

Calibration Date: 09-MAR-2011
Calibration Time: 15:22
Client Smp ID: VSTD150
Level: LOW
Sample Type: SOIL

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
23 Pentafluorobenzen	91022	45511	182044	98723	8.46
34 1,4-Difluorobenze	153104	76552	306208	156465	2.20
52 d5-Chlorobenzene	143720	71860	287440	146811	2.15
76 d4-1,4-Dichlorobe	77398	38699	154796	76483	-1.18

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	6.44	5.94	6.94	6.45	0.16
34 1,4-Difluorobenze	7.45	6.95	7.95	7.46	0.13
52 d5-Chlorobenzene	10.59	10.09	11.09	10.60	0.09
76 d4-1,4-Dichlorobe	13.28	12.78	13.78	13.28	0.00

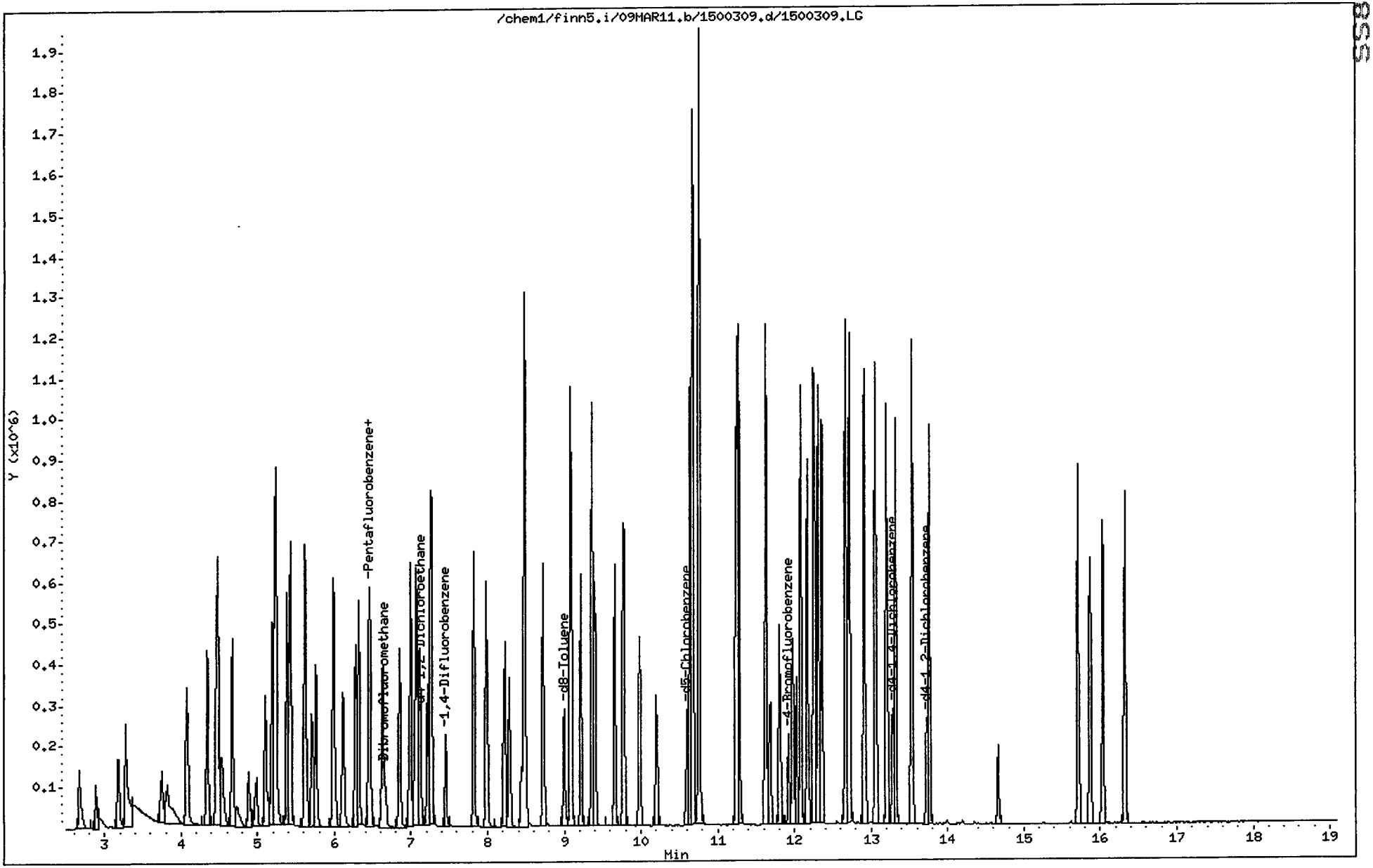
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem1/finn5.i/09MAR11.b/1500309.d
Date : 09-MAR-2011 14:27
Client ID: VSTD150
Sample Info: IC0309,5,5,0

Instrument: finn5.i

Operator: PB
Column diameter: 0.18

Column phase: Rtx502.2



CO-ELUTION SUMMARY FOR FILE - 1500309.d

Lab ID: IC0309, Method: s8260b.m, Instrument: finn5.i, Date: 09-MAR-2011

RT	CO-ELUTION COMPOUNDS
10.673	1,1,1,2-Tetrachloroethane and Ethyl Benzene

Analytical Resources, Inc.

8260C

Data file : /chem1/finn5.i/09MAR11.b/2000309.d
Lab Smp Id: IC0309 Client Smp ID: VSTD200
Inj Date : 09-MAR-2011 13:53
Operator : PB Inst ID: finn5.i
Smp Info : IC0309,5,5,0
Misc Info : 11-
Comment :
Method : /chem1/finn5.i/09MAR11.b/s8260b.m
Meth Date : 10-Mar-2011 09:38 patrickb Quant Type: ISTD
Cal Date : 09-MAR-2011 13:53 Cal File: 2000309.d
Als bottle: 1 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	5.00000	Sample Amount
M	0.00000	Moisture (%)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
1 Dichlorodifluoromethane	85	2.884	2.884	(0.448)	183962	200.000	178.69
2 Chloromethane	50	3.176	3.176	(0.493)	284236	200.000	158.27
3 Vinyl Chloride	62	3.276	3.276	(0.509)	317187	200.000	141.89
4 Bromomethane	94	3.739	3.739	(0.580)	150394	200.000	193.98
5 Chloroethane	64	3.809	3.809	(0.591)	238921	200.000	160.44
6 Trichlorofluoromethane	101	4.070	4.070	(0.632)	362003	200.000	178.66
7 Acrolein	56	4.472	4.472	(0.694)	254763	1000.00	814.32
8 112Trichloro122Trifluoroethane	101	4.472	4.472	(0.694)	286993	200.000	177.95
9 Acetone	43	4.522	4.522	(0.702)	326408	1000.00	704.59
10 1,1-Dichloroethene	96	4.663	4.663	(0.724)	211807	200.000	188.73
11 Bromoethane	108	4.884	4.884	(0.758)	162840	200.000	184.74
12 Iodomethane	142	4.975	4.975	(0.772)	163769	200.000	156.14
13 Methylene Chloride	84	5.095	5.095	(0.791)	236340	200.000	176.24
14 Acrylonitrile	53	5.186	5.186	(0.805)	90756	200.000	175.65(Q)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	ON-COL (ug/Kg)
	16 Methyl tert-Butyl Ether	73	5.236	5.236	(0.813)	834541	200.000	151.37(Q)
	15 Carbon Disulfide	76	5.186	5.186	(0.805)	700893	200.000	165.13
	17 Trans-1,2-Dichloroethene	96	5.377	5.377	(0.835)	244310	200.000	188.84
	18 Vinyl Acetate	43	5.708	5.708	(0.886)	462026	200.000	183.66
	19 1,1-Dichloroethane	63	5.759	5.759	(0.894)	441394	200.000	187.75
	20 2-Butanone	43	6.110	6.110	(0.949)	577660	1000.00	863.55
	21 2,2-Dichloropropane	77	6.271	6.271	(0.973)	299930	200.000	191.46
	22 Cis-1,2-Dichloroethene	96	6.311	6.311	(0.980)	259346	200.000	189.01
*	23 Pentafluorobenzene	168	6.442	6.442	(1.000)	101537	50.0000	
	24 Chloroform	83	6.462	6.462	(1.003)	410696	200.000	187.77
	26 Bromochloromethane	128	6.623	6.623	(1.028)	140835	200.000	196.15
$	25 Dibromofluoromethane	111	6.663	6.663	(1.034)	62079	50.0000	51.435(Q)
	27 1,1,1-Trichloroethane	97	6.844	6.844	(1.062)	327808	200.000	194.64
	29 1,1-Dichloropropene	75	6.985	6.985	(0.937)	346231	200.000	186.27
	30 Carbon Tetrachloride	117	7.105	7.105	(0.953)	309741	200.000	183.13
$	31 d4-1,2-Dichloroethane	65	7.125	7.125	(1.106)	57792	50.0000	51.693
	32 1,2-Dichloroethane	62	7.206	7.206	(0.966)	273597	200.000	178.40
	33 Benzene	78	7.256	7.256	(0.973)	714954	200.000	147.35
*	34 1,4-Difluorobenzene	114	7.457	7.457	(1.000)	172637	50.0000	
	35 Trichloroethene	95	7.819	7.819	(1.049)	276553	200.000	194.31
	36 1,2-Dichloropropane	63	7.980	7.980	(1.070)	285692	200.000	187.43
	37 Bromodichloromethane	83	8.221	8.221	(1.102)	320258	200.000	185.41
	39 Dibromomethane	93	8.281	8.281	(1.111)	164168	200.000	181.72
	40 2-Chloroethyl Vinyl Ether	63	8.442	8.442	(1.132)	69966	200.000	213.08(Q)
	41 4-Methyl-2-Pentanone	58	8.482	8.482	(1.137)	474596	1000.00	857.17(Q)
	42 Cis 1,3-dichloropropene	75	8.723	8.723	(1.170)	401045	200.000	197.31
$	43 d8-Toluene	98	8.995	8.995	(1.206)	197170	50.0000	50.523
	44 Toluene	92	9.085	9.085	(1.218)	561868	200.000	181.61(Q)
	45 Trans 1,3-Dichloropropene	75	9.216	9.216	(1.236)	346677	200.000	201.67
	46 2-Hexanone	43	9.357	9.357	(0.883)	666725	1000.00	534.71
	47 1,1,2-Trichloroethane	97	9.397	9.397	(1.260)	215627	200.000	188.28
	48 1,3-Dichloropropane	76	9.658	9.658	(0.912)	392941	200.000	174.92
	49 Tetrachloroethene	166	9.769	9.769	(0.922)	305645	200.000	187.61
	50 Chlorodibromomethane	129	9.980	9.980	(0.942)	289068	200.000	180.41
	51 1,2-Dibromoethane	107	10.201	10.201	(1.368)	258012	200.000	194.50
*	52 d5-Chlorobenzene	117	10.593	10.593	(1.000)	176599	50.0000	
	53 Chlorobenzene	112	10.643	10.643	(1.005)	597667	200.000	163.67
	54 Ethyl Benzene	91	10.673	10.673	(1.008)	760995	200.000	135.73
	55 1,1,1,2-Tetrachloroethane	131	10.663	10.663	(1.007)	250261	200.000	184.57
	56 m,p-xylene	106	10.753	10.753	(1.015)	719298	400.000	316.10(Q)
	57 o-Xylene	106	11.246	11.246	(1.062)	451279	200.000	190.88(Q)
	58 Styrene	104	11.276	11.276	(1.064)	629579	200.000	166.84
	59 Isopropyl Benzene	105	11.628	11.628	(0.876)	786971	200.000	141.36
	60 Bromoform	173	11.678	11.678	(0.880)	206511	200.000	186.62
	61 1,1,2,2-Tetrachloroethane	83	11.809	11.809	(0.889)	311136	200.000	164.06
$	62 4-Bromofluorobenzene	95	11.919	11.919	(1.125)	90387	50.0000	49.863
	63 1,2,3-Trichloropropane	110	11.980	11.980	(0.902)	78007	200.000	170.52(Q)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	ON-COL (ug/Kg)
	65 Trans-1,4-Dichloro 2-Butene	53	12.030	12.030	(0.906)	81263	200.000	164.54(Q)
	66 N-Propyl Benzene	91	12.080	12.080	(0.910)	790697	200.000	127.70
	67 Bromobenzene	156	12.160	12.160	(0.916)	328853	200.000	190.58
	68 1,3,5-Trimethyl Benzene	105	12.251	12.251	(0.923)	695772	200.000	156.78
	69 2-Chloro Toluene	91	12.311	12.311	(0.927)	658108	200.000	153.71
	70 4-Chloro Toluene	91	12.351	12.351	(0.930)	641958	200.000	145.30
	71 T-Butyl Benzene	119	12.663	12.663	(0.954)	709195	200.000	166.50
	72 1,2,4-Trimethylbenzene	105	12.713	12.713	(0.958)	682745	200.000	153.27
	73 S-Butyl Benzene	105	12.904	12.904	(0.972)	831611	200.000	140.04
	74 4-Isopropyl Toluene	119	13.055	13.055	(0.983)	722653	200.000	155.26
	75 1,3-Dichlorobenzene	146	13.196	13.196	(0.994)	541029	200.000	178.70
*	76 d4-1,4-Dichlorobenzene	152	13.276	13.276	(1.000)	93645	50.0000	
	77 1,4-Dichlorobenzene	146	13.316	13.316	(1.003)	523109	200.000	173.56
	78 N-Butyl Benzene	91	13.537	13.537	(1.020)	679720	200.000	148.07
$	79 d4-1,2-Dichlorobenzene	152	13.728	13.728	(1.034)	84166	50.0000	50.608
	80 1,2-Dichlorobenzene	146	13.758	13.758	(1.036)	492225	200.000	173.47
	81 1,2-Dibromo 3-Chloropropane	75	14.663	14.663	(1.104)	50503	200.000	148.71
	82 1,2,4-Trichlorobenzene	180	15.708	15.708	(1.183)	360756	200.000	178.17
	83 Hexachloro 1,3-Butadiene	225	15.859	15.859	(1.195)	203262	200.000	174.72
	84 Naphthalene	128	16.030	16.030	(1.207)	601446	200.000	134.73
	85 1,2,3-Trichlorobenzene	180	16.321	16.321	(1.229)	318971	200.000	159.79

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: finn5.i
Lab File ID: 2000309.d
Lab Smp Id: IC0309
Analysis Type: VOA
Quant Type: ISTD
Operator: PB
Calibration Date: 09-MAR-2011
Calibration Time: 15:22
Client Smp ID: VSTD200
Level: LOW
Sample Type: SOIL
Method File: /chem1/finn5.i/09MAR11.b/s8260b.m
Misc Info: 11-

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
23 Pentafluorobenzen	91022	45511	182044	101537	11.55
34 1,4-Difluorobenze	153104	76552	306208	172637	12.76
52 d5-Chlorobenzene	143720	71860	287440	176599	22.88
76 d4-1,4-Dichlorobe	77398	38699	154796	93645	20.99

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	6.44	5.94	6.94	6.44	0.00
34 1,4-Difluorobenze	7.45	6.95	7.95	7.46	0.13
52 d5-Chlorobenzene	10.59	10.09	11.09	10.59	0.00
76 d4-1,4-Dichlorobe	13.28	12.78	13.78	13.28	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/finn5.i/09MAR11.b/2000309.d

Date : 09-MAR-2011 13:53

Client ID: VSTD200

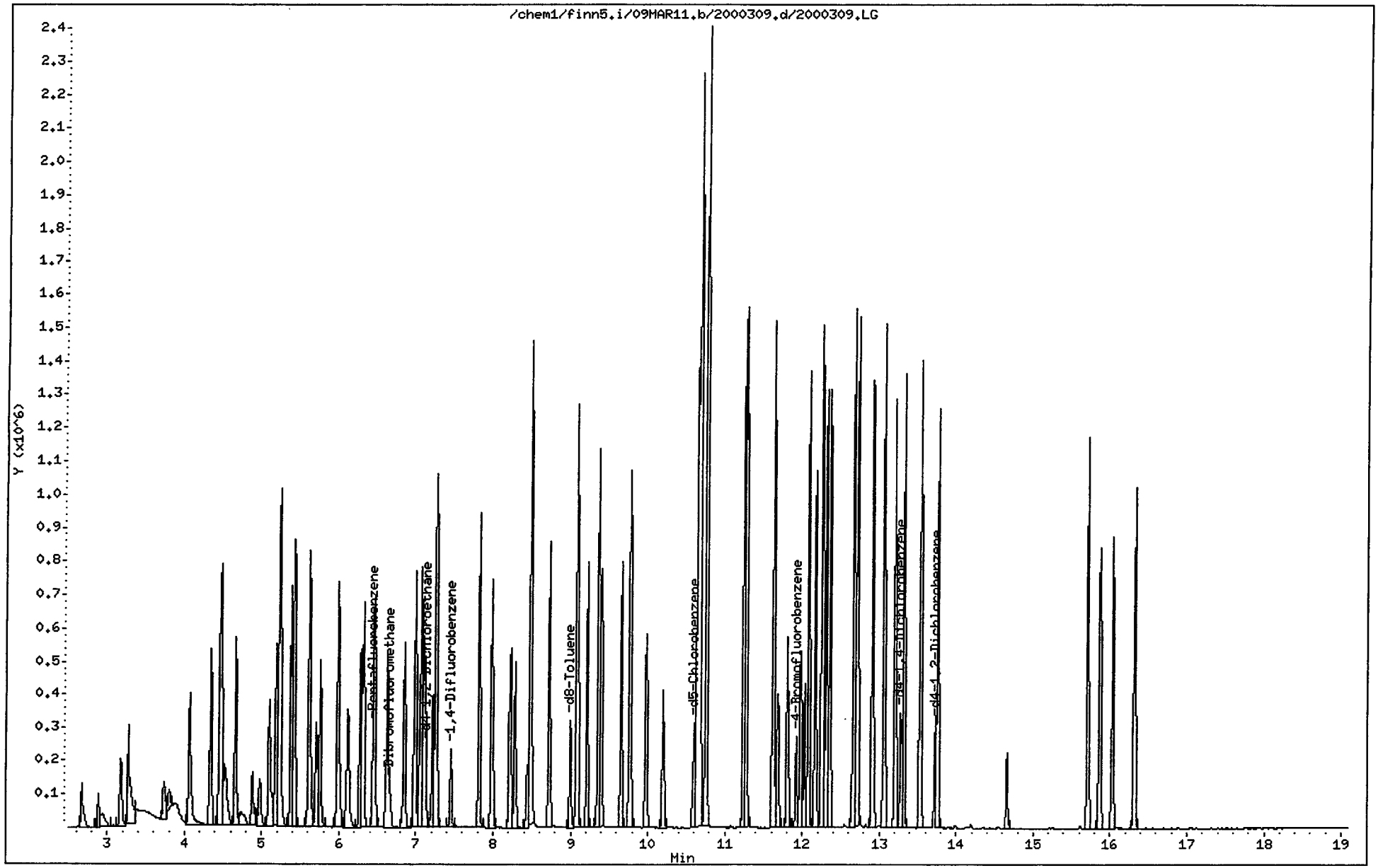
Sample Info: IC0309,5,5,0

Column phase: Rtx502.2

Instrument: finn5.i

Operator: PB

Column diameter: 0.18



CO-ELUTION SUMMARY FOR FILE - 2000309.d

Lab ID: IC0309, Method: s8260b.m, Instrument: finn5.i, Date: 09-MAR-2011

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Analytical Resources, Inc.

8260C

Data file : /chem1/finn5.i/09MAR11.b/ICV0309.d
Lab Smp Id: ICV0309 Client Smp ID: ICV0309
Inj Date : 09-MAR-2011 17:36
Operator : PB Inst ID: finn5.i
Smp Info : ICV0309,5,5,0
Misc Info : 11-
Comment :
Method : /chem1/finn5.i/09MAR11.b/s8260b.m
Meth Date : 10-Mar-2011 09:38 patrickb Quant Type: ISTD
Cal Date : 09-MAR-2011 13:53 Cal File: 2000309.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	5.00000	Sample Amount
M	0.00000	Moisture (%)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
1 Dichlorodifluoromethane	85	2.894	2.884	(0.449)	46968	51.0850	51.085
2 Chloromethane	50	3.176	3.176	(0.492)	65494	40.8377	40.838
3 Vinyl Chloride	62	3.276	3.276	(0.508)	85029	42.5924	42.592(Q)
4 Bromomethane	94	3.749	3.739	(0.581)	29372	42.4214	42.421
5 Chloroethane	64	3.829	3.809	(0.593)	61608	46.3275	46.327
6 Trichlorofluoromethane	101	4.080	4.070	(0.632)	85987	47.5199	47.520
7 Acrolein	56	4.472	4.472	(0.693)	11855	42.4316	42.432
8 112Trichloro122Trifluoroethane	101	4.472	4.472	(0.693)	66630	46.2630	46.263
9 Acetone	43	4.522	4.522	(0.701)	20219	48.8720	48.872
10 1,1-Dichloroethene	96	4.673	4.663	(0.724)	47610	47.5043	47.504
11 Bromoethane	108	4.884	4.884	(0.757)	36021	45.7593	45.759
12 Iodomethane	142	4.985	4.975	(0.773)	38238	40.8241	40.824
13 Methylene Chloride	84	5.095	5.095	(0.790)	55916	46.6919	46.692
14 Acrylonitrile	53	5.186	5.186	(0.804)	23182	50.2401	50.240(Q)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
	16 Methyl tert-Butyl Ether	73	5.236	5.236	(0.812)	248227	50.4157	50.416(Q)
	15 Carbon Disulfide	76	5.196	5.186	(0.805)	137326	36.2292	36.229(R)
	17 Trans-1,2-Dichloroethene	96	5.377	5.377	(0.833)	47720	41.3036	41.304
	18 Vinyl Acetate	43	5.708	5.708	(0.885)	83133	37.0045	37.004(R)
	19 1,1-Dichloroethane	63	5.759	5.759	(0.893)	93941	44.7437	44.744
	20 2-Butanone	43	6.110	6.110	(0.947)	27642	46.2715	46.272(Q)
	21 2,2-Dichloropropane	77	6.281	6.271	(0.974)	63201	45.1762	45.176
	22 Cis-1,2-Dichloroethene	96	6.311	6.311	(0.978)	55618	45.3883	45.388
*	23 Pentafluorobenzene	168	6.452	6.442	(1.000)	90677	50.0000	
	24 Chloroform	83	6.462	6.462	(1.002)	85675	43.8609	43.861
$	25 Dibromofluoromethane	111	6.623	6.623	(1.026)	59611	92.9677	92.968
	27 1,1,1-Trichloroethane	97	6.663	6.663	(1.033)	49656	46.0695	46.070(Q)
	29 1,1-Dichloropropene	75	6.844	6.844	(1.061)	67013	44.5554	44.555
	30 Carbon Tetrachloride	117	6.995	6.985	(0.938)	68306	44.8615	44.861
$	31 d4-1,2-Dichloroethane	65	7.105	7.105	(0.953)	62985	45.4611	45.461
	32 1,2-Dichloroethane	62	7.125	7.125	(1.104)	46131	46.2048	46.205
	33 Benzene	78	7.206	7.206	(0.966)	62105	49.4371	49.437
*	34 1,4-Difluorobenzene	114	7.256	7.256	(0.973)	193843	48.7709	48.771
	35 Trichloroethene	95	7.457	7.457	(1.000)	141416	50.0000	
	36 1,2-Dichloropropane	63	7.819	7.819	(1.049)	56315	48.3029	48.303
	37 Bromodichloromethane	83	7.980	7.980	(1.070)	61986	49.6451	49.645
	39 Dibromomethane	93	8.221	8.221	(1.102)	68953	48.7341	48.734
	40 2-Chloroethyl Vinyl Ether	63	8.281	8.281	(1.111)	36527	49.3583	49.358
	41 4-Methyl-2-Pentanone	58	8.442	8.442	(1.132)	12315	45.7858	45.786(Q)
	42 Cis 1,3-dichloropropene	75	8.472	8.482	(1.136)	21789	48.0414	48.041
$	43 d8-Toluene	98	8.723	8.723	(1.170)	79952	48.0193	48.019
	44 Toluene	92	8.995	8.995	(1.206)	160885	50.3264	50.326
	45 Trans 1,3-Dichloropropene	75	9.085	9.085	(1.218)	119149	47.0144	47.014
	46 2-Hexanone	43	9.216	9.216	(1.236)	63300	44.9520	44.952
	47 1,1,2-Trichloroethane	97	9.357	9.357	(0.883)	45689	47.6752	47.675
	48 1,3-Dichloropropane	76	9.397	9.397	(1 260)	47273	50.3900	50.390
	49 Tetrachloroethene	166	9.658	9.658	(0.912)	85628	49.5958	49.596
	50 Chlorodibromomethane	129	9.769	9.769	(0.922)	55787	44.5538	44.554
	51 1,2-Dibromoethane	107	9.980	9.980	(0.942)	58891	47.8205	47.820
*	52 d5-Chlorobenzene	117	10.201	10.201	(1.368)	52465	48.2830	48.283
	53 Chlorobenzene	112	10.593	10.593	(1.000)	135731	50.0000	
	54 Ethyl Benzene	91	10.643	10.643	(1.005)	130646	46.5503	46.550
	55 1,1,1,2-Tetrachloroethane	131	10.673	10.673	(1.008)	213630	49.5743	49.574
	56 m,p-xylene	106	10.663	10.663	(1.007)	48505	46.5436	46.544
	57 o-Xylene	106	10.753	10.753	(1.015)	163587	93.5346	93.535
	58 Styrene	104	11.246	11.246	(1.062)	86266	47.4741	47.474
	59 Isopropyl Benzene	105	11.276	11.276	(1.064)	140289	48.3706	48.370
	60 Bromoform	173	11.628	11.628	(0.876)	188356	42.3511	42.351
	61 1,1,2,2-Tetrachloroethane	83	11.678	11.678	(0.880)	43201	48.8672	48.867
$	62 4-Bromofluorobenzene	95	11.799	11.809	(0.889)	72445	47.8143	47.814
	63 1,2,3-Trichloropropane	110	11.919	11.919	(1.125)	70816	50.8291	50.829
			11.970	11.980	(0.902)	17898	48.9725	48.972

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
65 Trans-1,4-Dichloro 2-Butene	53	12.030	12.030	(0.906)	17514	44.3902	44.390
66 N-Propyl Benzene	91	12.080	12.080	(0.910)	243671	49.2611	49.261
67 Bromobenzene	156	12.160	12.160	(0.916)	63289	45.9105	45.910
68 1,3,5-Trimethyl Benzene	105	12.251	12.251	(0.923)	168855	47.6261	47.626
69 2-Chloro Toluene	91	12.301	12.311	(0.927)	162630	47.5459	47.546
70 4-Chloro Toluene	91	12.351	12.351	(0.930)	154137	43.6677	43.668
71 T-Butyl Benzene	119	12.663	12.663	(0.954)	159191	46.7824	46.782
72 1,2,4-Trimethylbenzene	105	12.713	12.713	(0.958)	167826	47.1581	47.158
73 S-Butyl Benzene	105	12.904	12.904	(0.972)	234916	49.5159	49.516
74 4-Isopropyl Toluene	119	13.055	13.055	(0.983)	175444	47.1827	47.183
75 1,3-Dichlorobenzene	146	13.196	13.196	(0.994)	108577	44.8911	44.891
* 76 d4-1,4-Dichlorobenzene	152	13.276	13.276	(1.000)	74813	50.0000	
77 1,4-Dichlorobenzene	146	13.316	13.316	(1.003)	107873	44.8004	44.800
78 N-Butyl Benzene	91	13.527	13.537	(1.019)	173797	47.3897	47.390
$ 79 d4-1,2-Dichlorobenzene	152	13.718	13.728	(1.033)	67382	50.7146	50.714
80 1,2-Dichlorobenzene	146	13.758	13.758	(1.036)	104443	46.0734	46.073
81 1,2-Dibromo 3-Chloropropane	75	14.663	14.663	(1.104)	12198	44.9607	44.961
82 1,2,4-Trichlorobenzene	180	15.708	15.708	(1.183)	68405	42.2880	42.288
83 Hexachloro 1,3-Butadiene	225	15.859	15.859	(1.195)	38817	41.7658	41.766
84 Naphthalene	128	16.030	16.030	(1.207)	160174	44.9140	44.914
85 1,2,3-Trichlorobenzene	180	16.321	16.321	(1.229)	67599	42.3883	42.388

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: finn5.i
Lab File ID: ICV0309.d
Lab Smp Id: ICV0309
Analysis Type: VOA
Quant Type: ISTD
Operator: PB
Method File: /chem1/finn5.i/09MAR11.b/s8260b.m
Misc Info: 11-

Calibration Date: 09-MAR-2011
Calibration Time: 15:22
Client Smp ID: ICV0309
Level: LOW
Sample Type: SOIL

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
23 Pentafluorobenzen	91022	45511	182044	90677	-0.38
34 1,4-Difluorobenze	153104	76552	306208	141416	-7.63
52 d5-Chlorobenzene	143720	71860	287440	135731	-5.56
76 d4-1,4-Dichlorobe	77398	38699	154796	74813	-3.34

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	6.44	5.94	6.94	6.45	0.16
34 1,4-Difluorobenze	7.45	6.95	7.95	7.46	0.13
52 d5-Chlorobenzene	10.59	10.09	11.09	10.59	0.00
76 d4-1,4-Dichlorobe	13.28	12.78	13.78	13.28	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: SOLID
Lab Smp Id: ICV0309
Level: LOW
Data Type: MS DATA
SpikeList File: icv.spk
Sublist File: voa.sub
Method File: /chem1/finn5.i/09MAR11.b/s8260b.m
Misc Info: 11-

Client SDG: 09MAR11
Fraction: VOA
Client Smp ID: ICV0309
Operator: PB
SampleType: LCS
Quant Type: ISTD

	SPIKE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
1	Dichlorodifluorome	50.000	51.085	102.17	80-120
2	Chloromethane	50.000	40.838	81.68	80-120
3	Vinyl Chloride	50.000	42.592	85.18	80-120
4	Bromomethane	50.000	42.421	84.84	80-120
5	Chloroethane	50.000	46.327	92.65	80-120
6	Trichlorofluoromet	50.000	47.520	95.04	80-120
7	Acrolein	50.000	42.432	84.86	80-120
8	112Trichloro122Tri	50.000	46.263	92.53	80-120
9	Acetone	50.000	48.872	97.74	80-120
10	1,1-Dichloroethene	50.000	47.504	95.01	80-120
11	Bromoethane	50.000	45.759	91.52	80-120
12	Iodomethane	50.000	40.824	81.65	80-120
13	Methylene Chloride	50.000	46.692	93.38	80-120
15	Carbon Disulfide	50.000	36.229	72.46*	80-120
14	Acrylonitrile	50.000	50.240	100.48	80-120
16	Methyl tert-Butyl	50.000	50.416	100.83	80-120
17	Trans-1,2-Dichloro	50.000	41.304	82.61	80-120
18	Vinyl Acetate	50.000	37.004	74.01*	80-120
19	1,1-Dichloroethane	50.000	44.744	89.49	80-120
20	2-Butanone	50.000	46.272	92.54	80-120
21	2,2-Dichloropropan	50.000	45.176	90.35	80-120
22	Cis-1,2-Dichloroet	50.000	45.388	90.78	80-120
24	Chloroform	50.000	43.861	87.72	80-120
26	Bromochloromethane	100.00	92.968	92.97	80-120
27	1,1,1-Trichloroeth	50.000	44.555	89.11	80-120
29	1,1-Dichloropropen	50.000	44.861	89.72	80-120
30	Carbon Tetrachlori	50.000	45.461	90.92	80-120
32	1,2-Dichloroethane	50.000	49.437	98.87	80-120
33	Benzene	50.000	48.771	97.54	80-120
35	Trichloroethene	50.000	48.303	96.61	80-120
36	1,2-Dichloropropan	50.000	49.645	99.29	80-120
37	Bromodichlorometha	50.000	48.734	97.47	80-120
39	Dibromomethane	50.000	49.358	98.72	80-120

SPIKE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
40 2-Chloroethyl Viny	50.000	45.786	91.57	80-120
41 4-Methyl-2-Pentano	50.000	48.041	96.08	80-120
42 Cis 1,3-dichloropr	50.000	48.019	96.04	80-120
44 Toluene	50.000	47.014	94.03	80-120
45 Trans 1,3-Dichloro	50.000	44.952	89.90	80-120
46 2-Hexanone	50.000	47.675	95.35	80-120
47 1,1,2-Trichloroeth	50.000	50.390	100.78	80-120
48 1,3-Dichloropropan	50.000	49.596	99.19	80-120
49 Tetrachloroethene	50.000	44.554	89.11	80-120
50 Chlorodibromometha	50.000	47.820	95.64	80-120
51 1,2-Dibromoethane	50.000	48.283	96.57	80-120
53 Chlorobenzene	50.000	46.550	93.10	80-120
55 1,1,1,2-Tetrachlor	50.000	46.544	93.09	80-120
54 Ethyl Benzene	50.000	49.574	99.15	80-120
56 m,p-xylene	100.00	93.535	93.53	80-120
57 o-Xylene	50.000	47.474	94.95	80-120
58 Styrene	50.000	48.370	96.74	80-120
59 Isopropyl Benzene	50.000	42.351	84.70	80-120
60 Bromoform	50.000	48.867	97.73	80-120
61 1,1,2,2-Tetrachlor	50.000	47.814	95.63	80-120
63 1,2,3-Trichloropro	50.000	48.972	97.94	80-120
65 Trans-1,4-Dichloro	50.000	44.390	88.78	80-120
66 N-Propyl Benzene	50.000	49.261	98.52	80-120
67 Bromobenzene	50.000	45.910	91.82	80-120
68 1,3,5-Trimethyl Be	50.000	47.626	95.25	80-120
69 2-Chloro Toluene	50.000	47.546	95.09	80-120
70 4-Chloro Toluene	50.000	43.668	87.34	80-120
71 T-Butyl Benzene	50.000	46.782	93.56	80-120
72 1,2,4-Trimethylben	50.000	47.158	94.32	80-120
73 S-Butyl Benzene	50.000	49.516	99.03	80-120
74 4-Isopropyl Toluen	50.000	47.183	94.37	80-120
75 1,3-Dichlorobenzen	50.000	44.891	89.78	80-120
77 1,4-Dichlorobenzen	50.000	44.800	89.60	80-120
78 N-Butyl Benzene	50.000	47.390	94.78	80-120
80 1,2-Dichlorobenzen	50.000	46.073	92.15	80-120
81 1,2-Dibromo 3-Chlo	50.000	44.961	89.92	80-120
82 1,2,4-Trichloroben	50.000	42.288	84.58	80-120
83 Hexachloro 1,3-But	50.000	41.766	83.53	80-120
84 Naphthalene	50.000	44.914	89.83	80-120
85 1,2,3-Trichloroben	50.000	42.388	84.78	80-120

SURROGATE COMPOUND	AMOUNT ADDED ug/Kg	AMOUNT RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 25 Dibromofluorometha	50.000	46.070	92.14	30-160

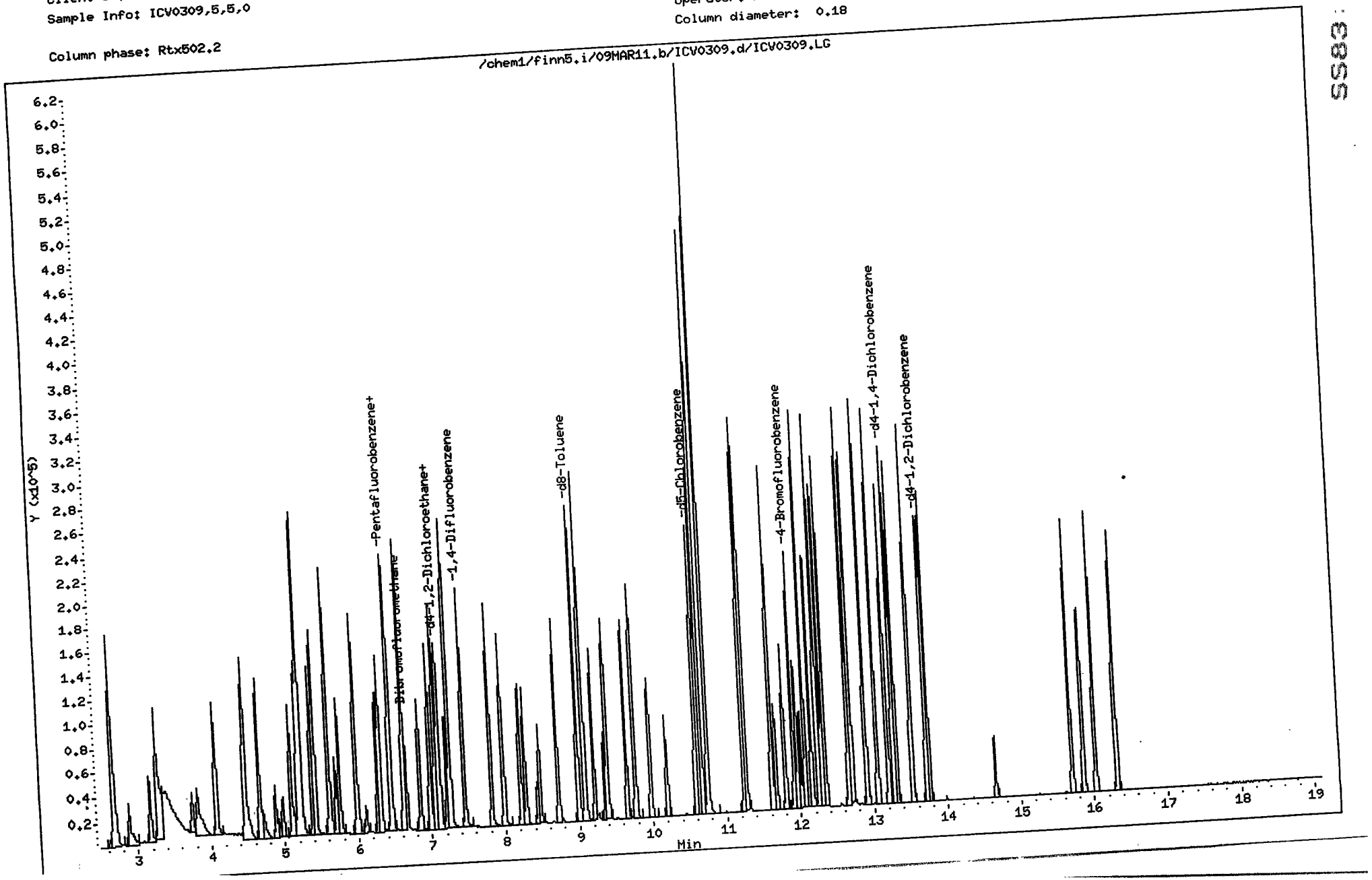
SURROGATE COMPOUND	AMOUNT ADDED ug/Kg	AMOUNT RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 31 d4-1,2-Dichloroeth	50.000	46.205	92.41	75-152
$ 43 d8-Toluene	50.000	50.326	100.65	82-115
$ 62 4-Bromofluorobenze	50.000	50.829	101.66	64-120
$ 79 d4-1,2-Dichloroben	50.000	50.714	101.43	80-120

Data File: /chem1/finn5.i/09MAR11.b/ICV0309.d
Date : 09-MAR-2011 17:36
Client ID: ICV0309
Sample Info: ICV0309,5,5,0

Instrument: finn5.i

Operator: PB
Column diameter: 0.18

Column phase: Rtx502.2



CO-ELUTION SUMMARY FOR FILE - ICV0309.d

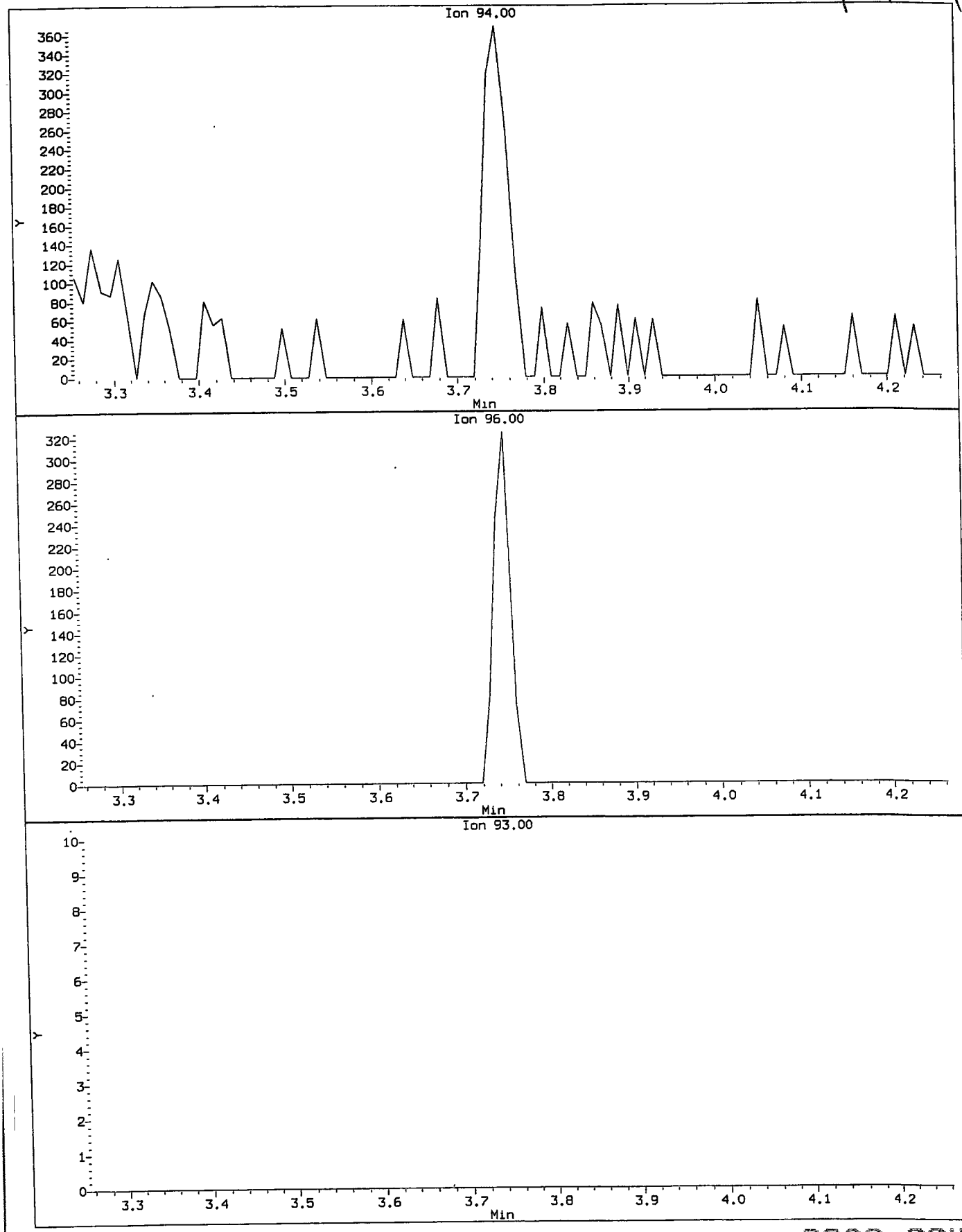
Lab ID: ICV0309, Method: s8260b.m, Instrument: finn5.i, Date: 09-MAR-2011

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Data File: /chem1/finn5.i/09MAR11.b/0010309.d/0010309.LG
Injection Date: 09-MAR-2011 13:10
Instrument: finn5.i
Client Sample ID: VSTD1

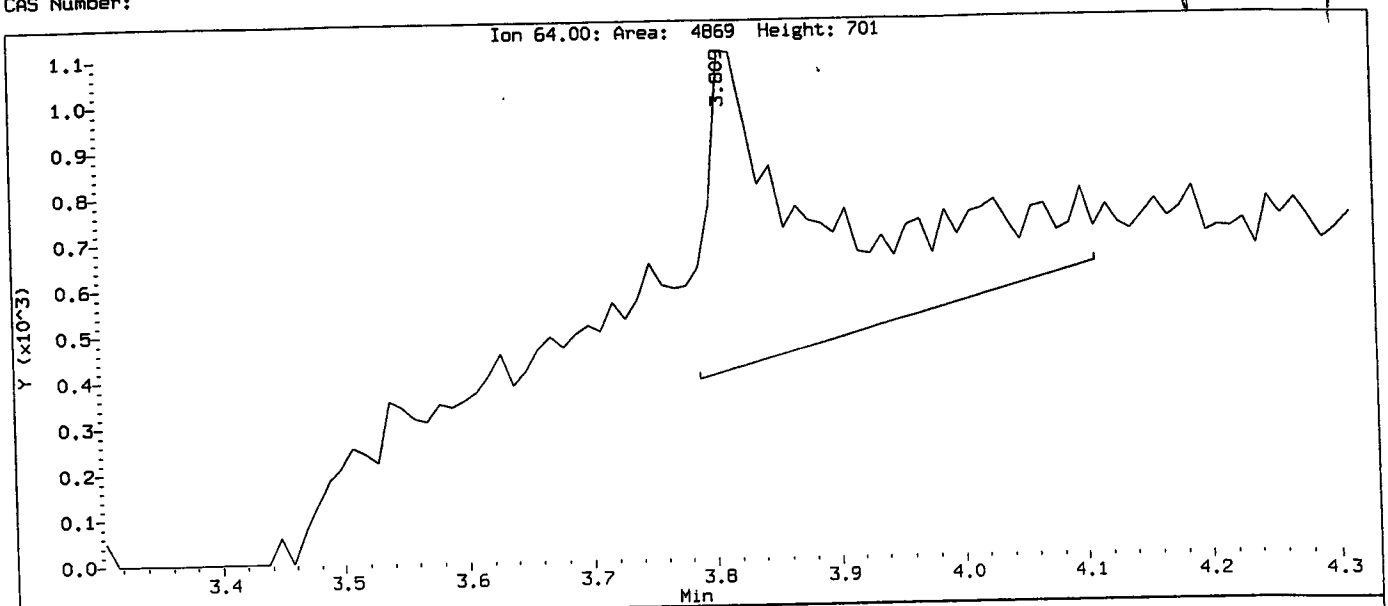
Compound: Bromomethane
CAS Number:

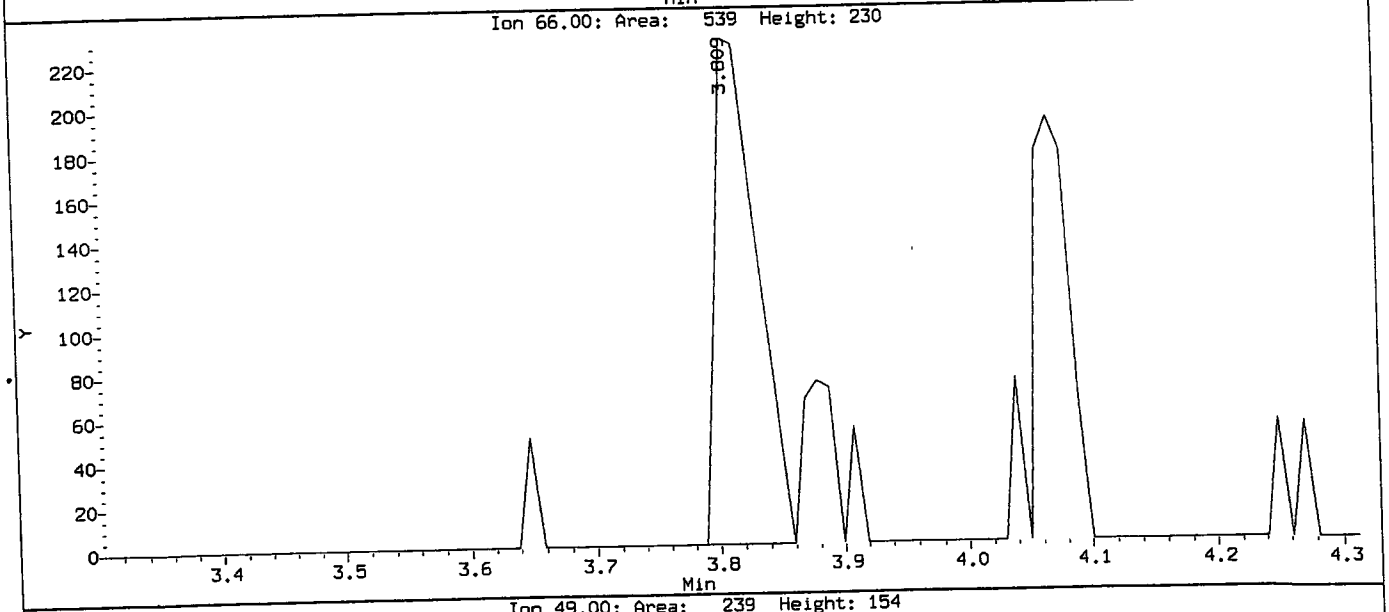


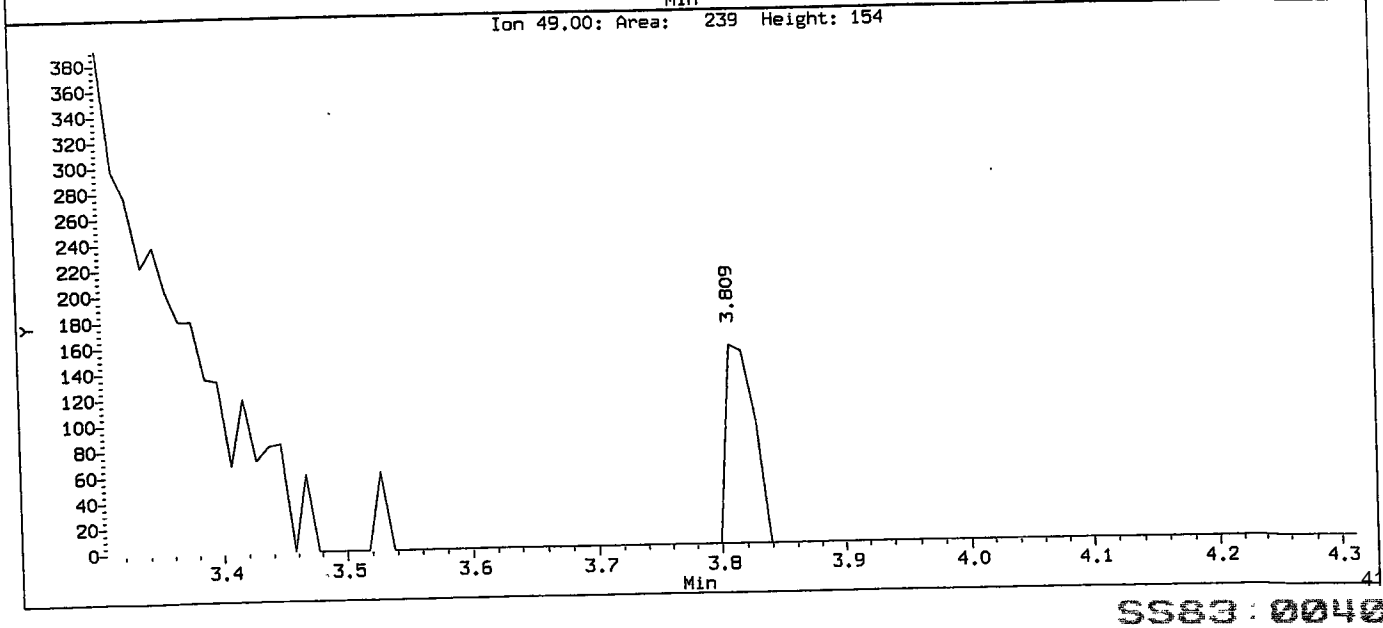
SS83:00408

Data File: /chem1/finn5.i/09MAR11.b/0010309.d/0010309.LG
Injection Date: 09-MAR-2011 13:10
Instrument: finn5.i
Client Sample ID: VSTD1

Compound: Chloroethane
CAS Number:



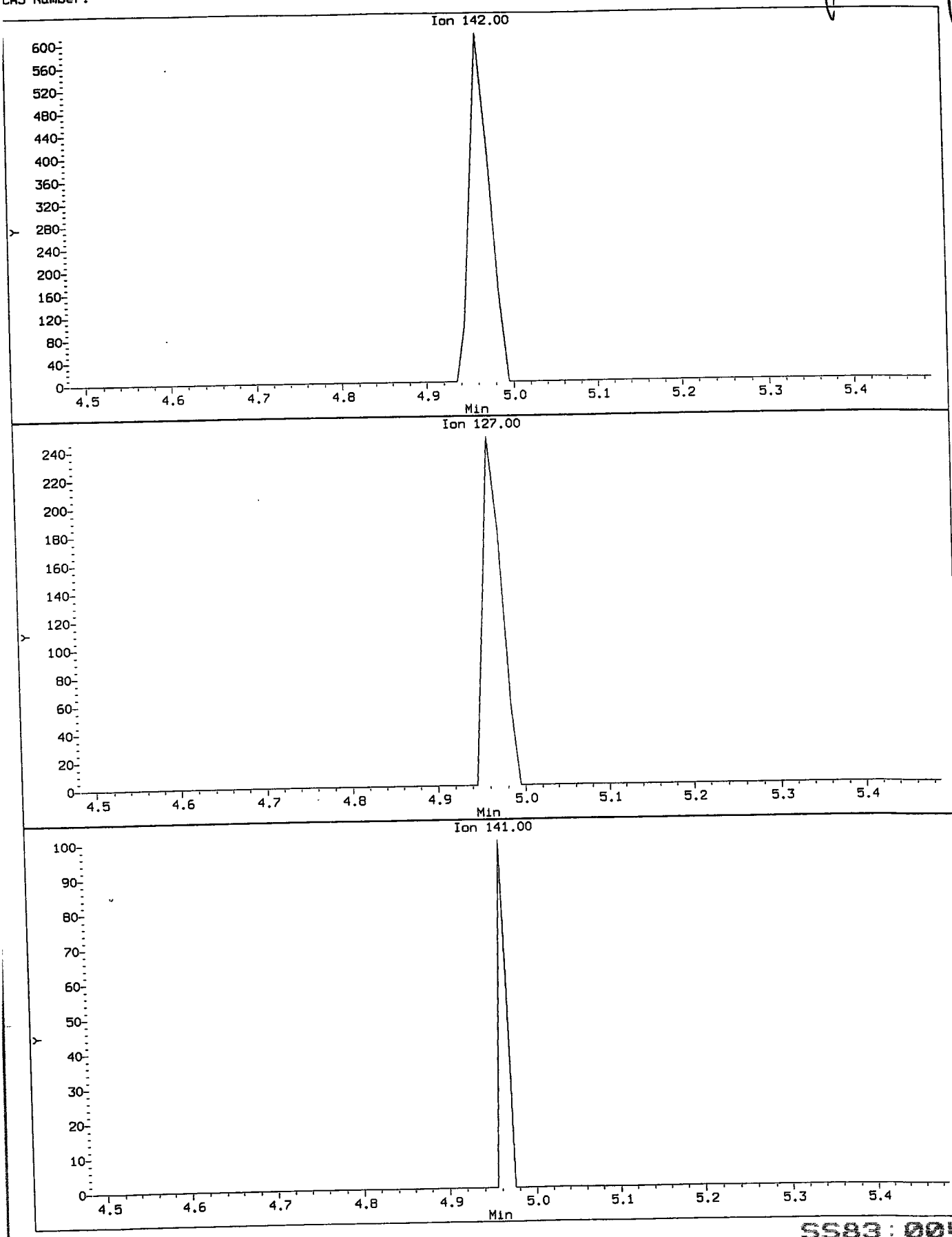




SS83 : 00409

Data File: /chem1/finn5.i/09MAR11.b/0010309.d/0010309.LG
Injection Date: 09-MAR-2011 13:10
Instrument: finn5.i
Client Sample ID: VSTD1

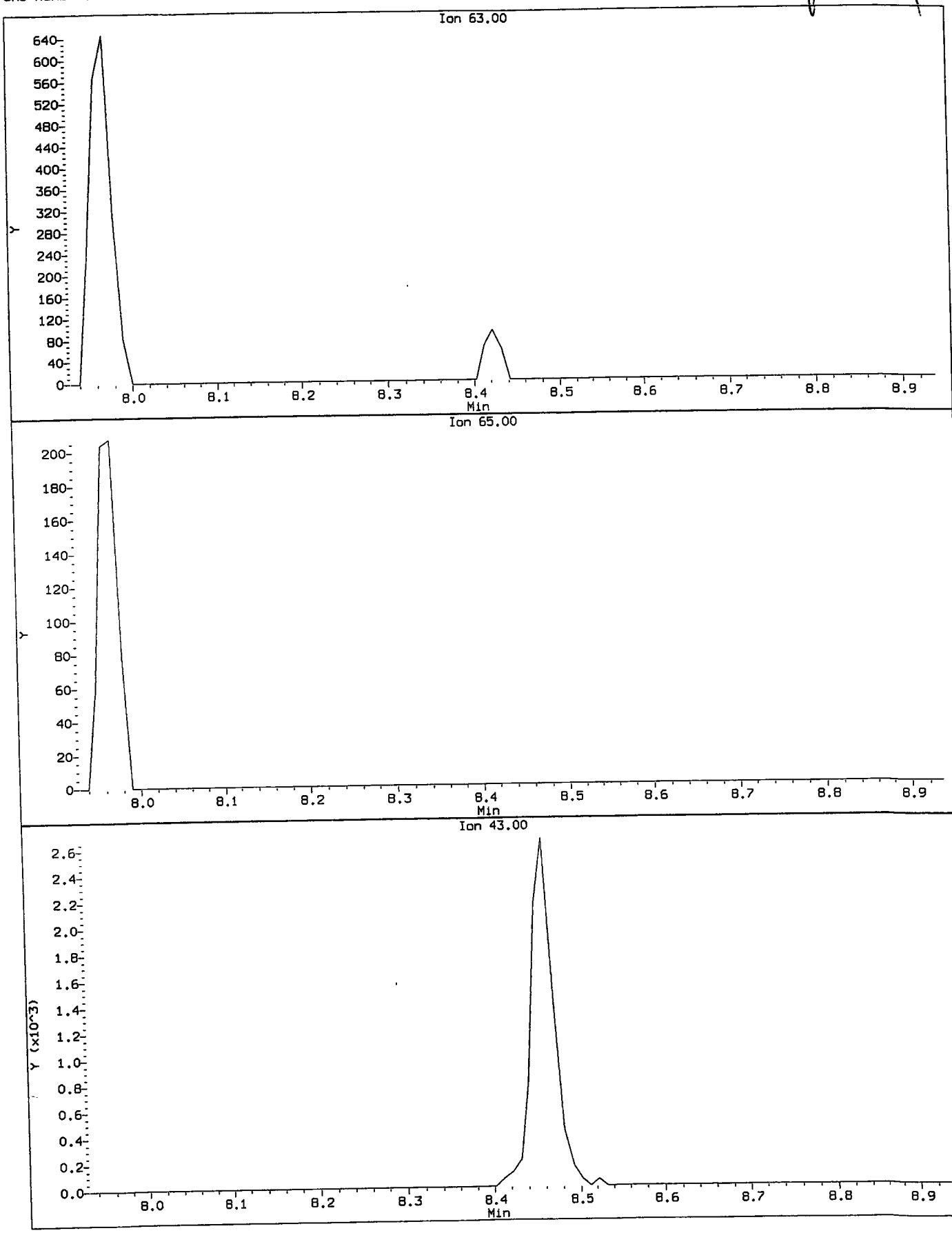
Compound: Iodomethane
CAS Number:



SS83:00410

Data File: /chem1/finn5.i/09MAR11.b/0010309.d/0010309.LG
Injection Date: 09-MAR-2011 13:10
Instrument: finn5.i
Client Sample ID: VSTD1

Compound: 2-Chloroethyl Vinyl Ether
CAS Number:

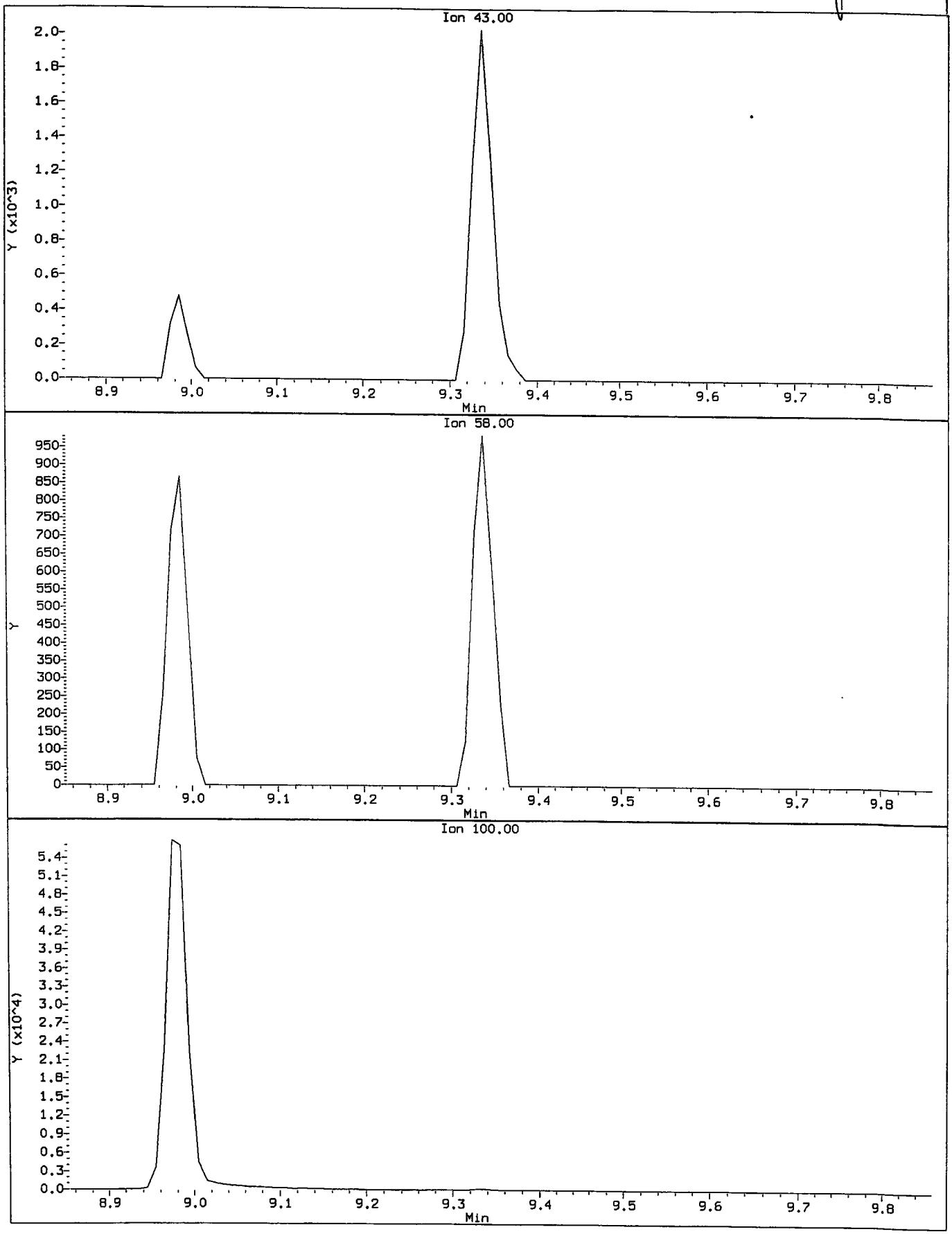


SS83:00411

Data File: /chem1/finn5.i/09MAR11.b/0010309.d/0010309.LG
Injection Date: 09-MAR-2011 13:10
Instrument: finn5.i
Client Sample ID: VSTD1

Compound: 2-Hexanone
CAS Number:

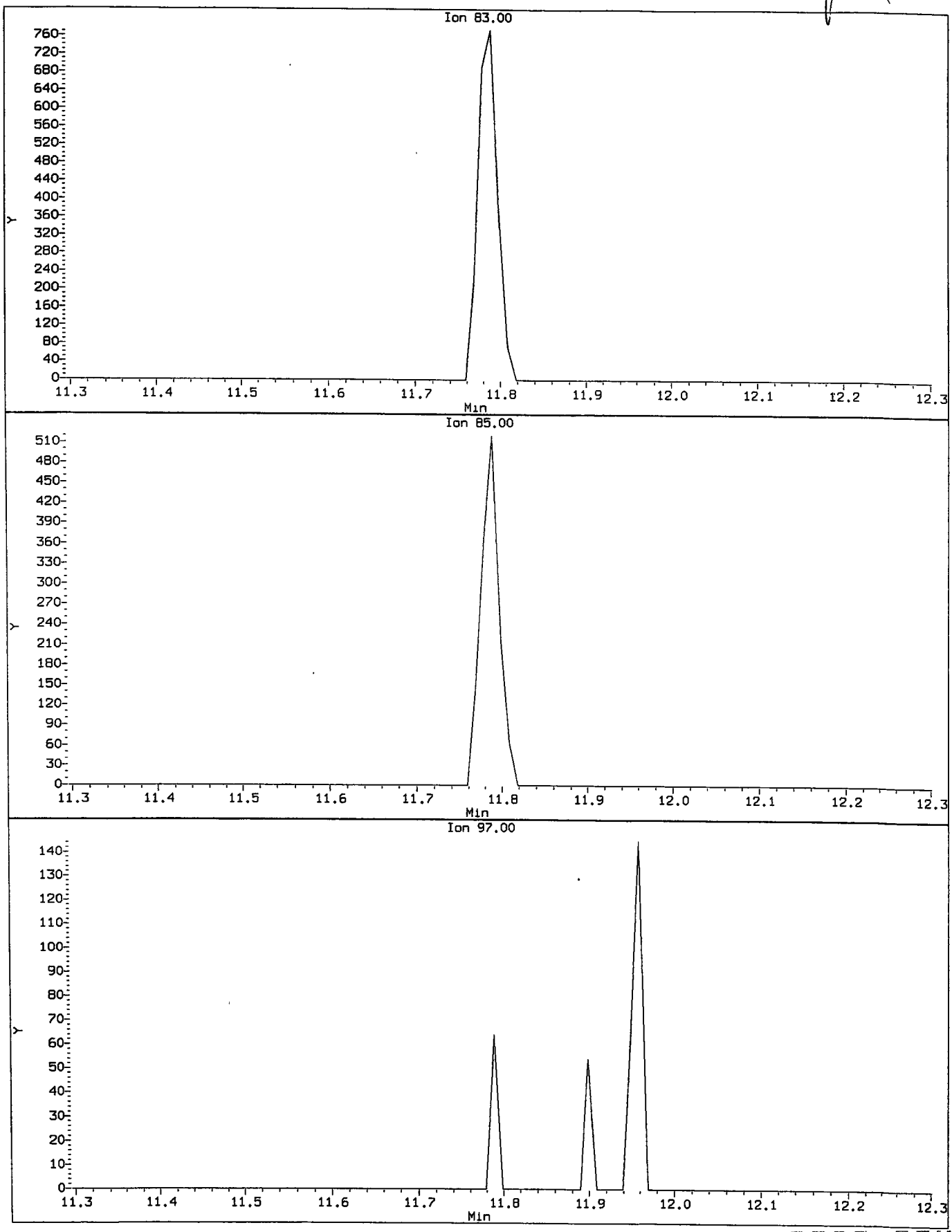
11/10/14



SS83 : 00412

Data File: /chem1/finn5.i/09MAR11.b/0010309.d/0010309.LG
Injection Date: 09-MAR-2011 13:10
Instrument: finn5.i
Client Sample ID: VSTD1

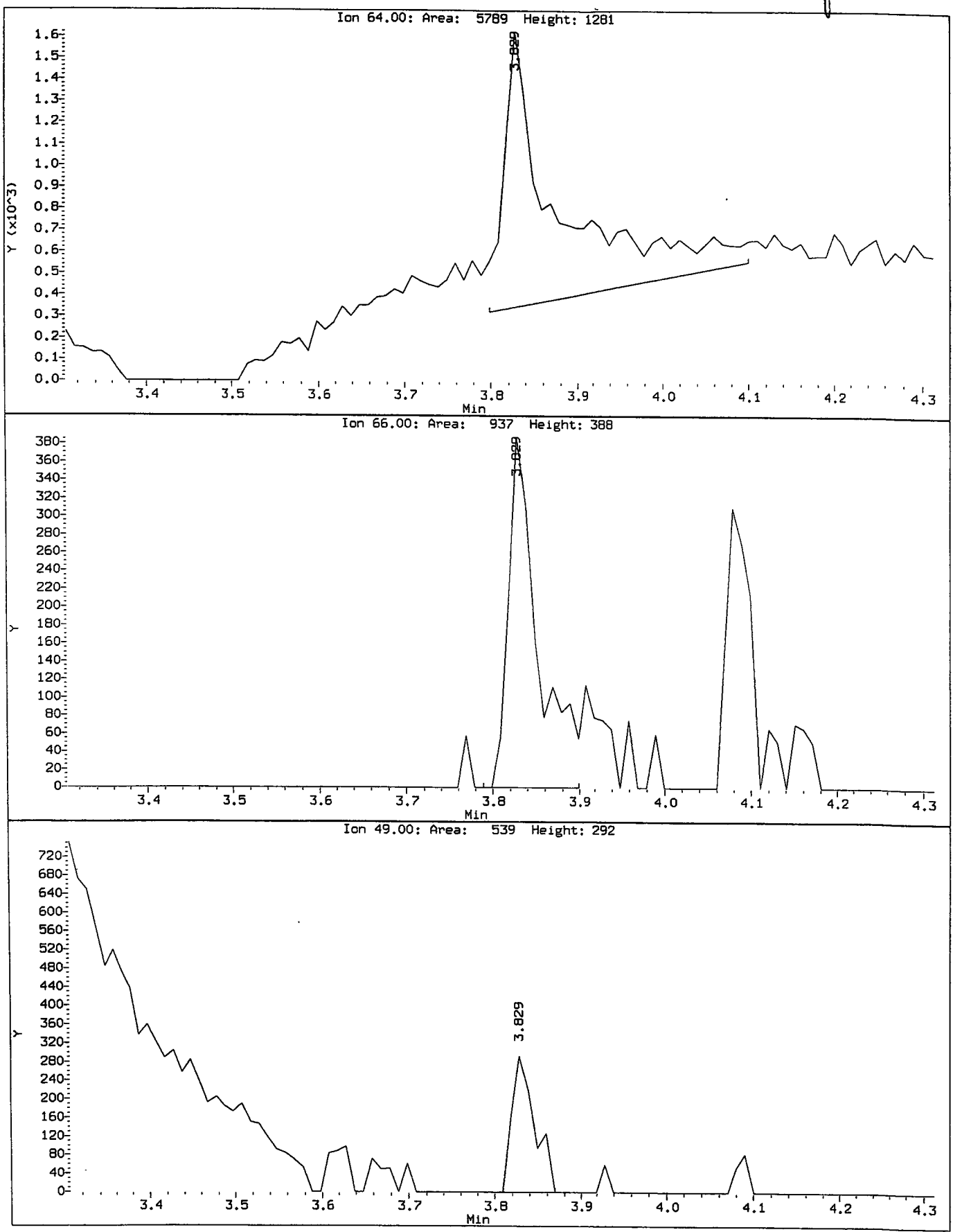
Compound: 1,1,2,2-Tetrachloroethane
CAS Number:



Data File: /chem1/finn5.i/09MAR11.b/0020309.d/0020309.LG
Injection Date: 09-MAR-2011 16:51
Instrument: finn5.i
Client Sample ID: VSTD2

Compound: Chloroethane
CAS Number:

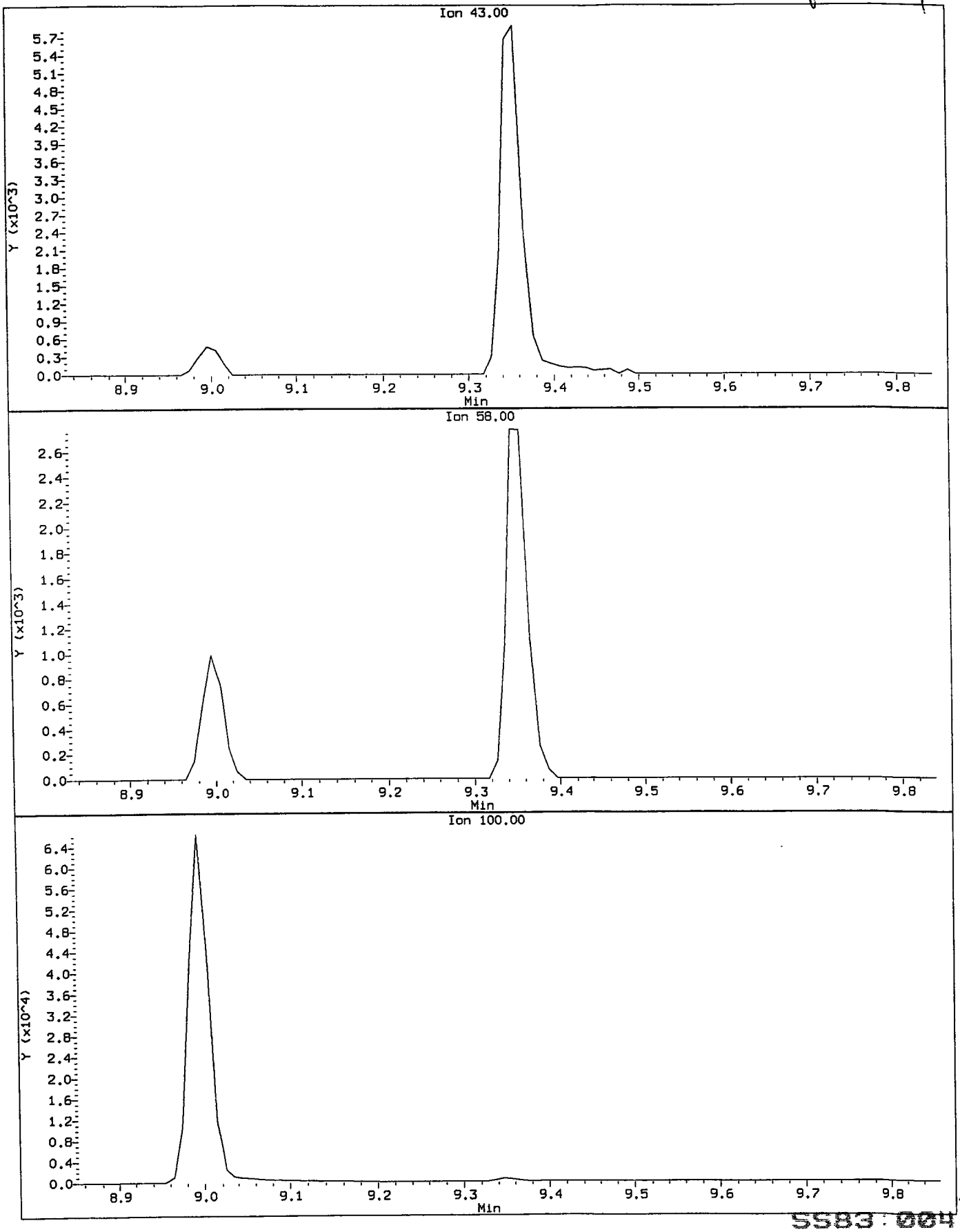
1,1-DCE



SS83 : 00414

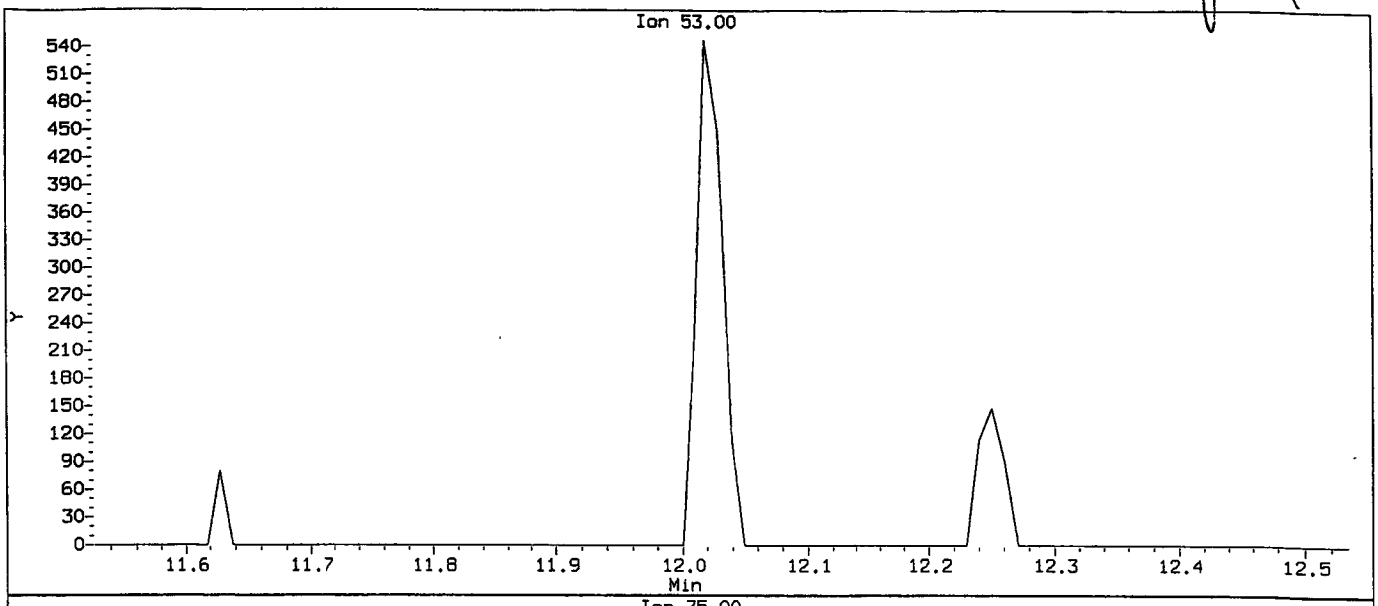
Data File: /chem1/finn5.i/09MAR11.b/0020309.d/0020309.LG
Injection Date: 09-MAR-2011 16:51
Instrument: finn5.i
Client Sample ID: VSTD2

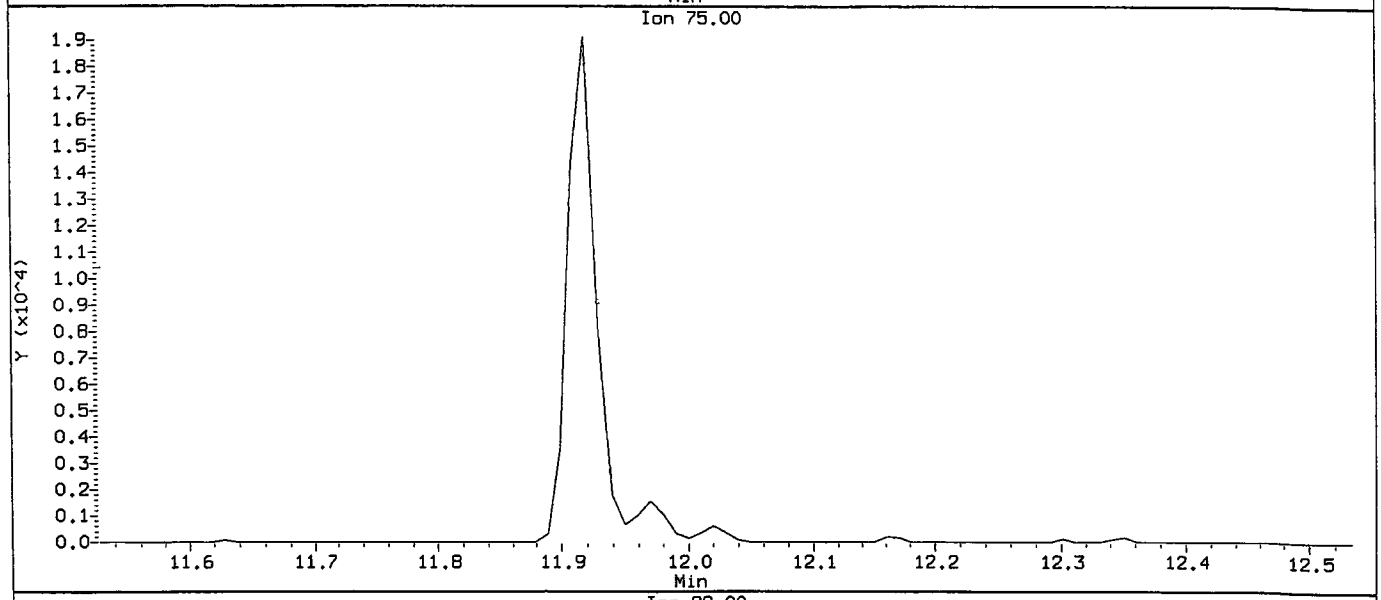
Compound: 2-Hexanone
CAS Number:

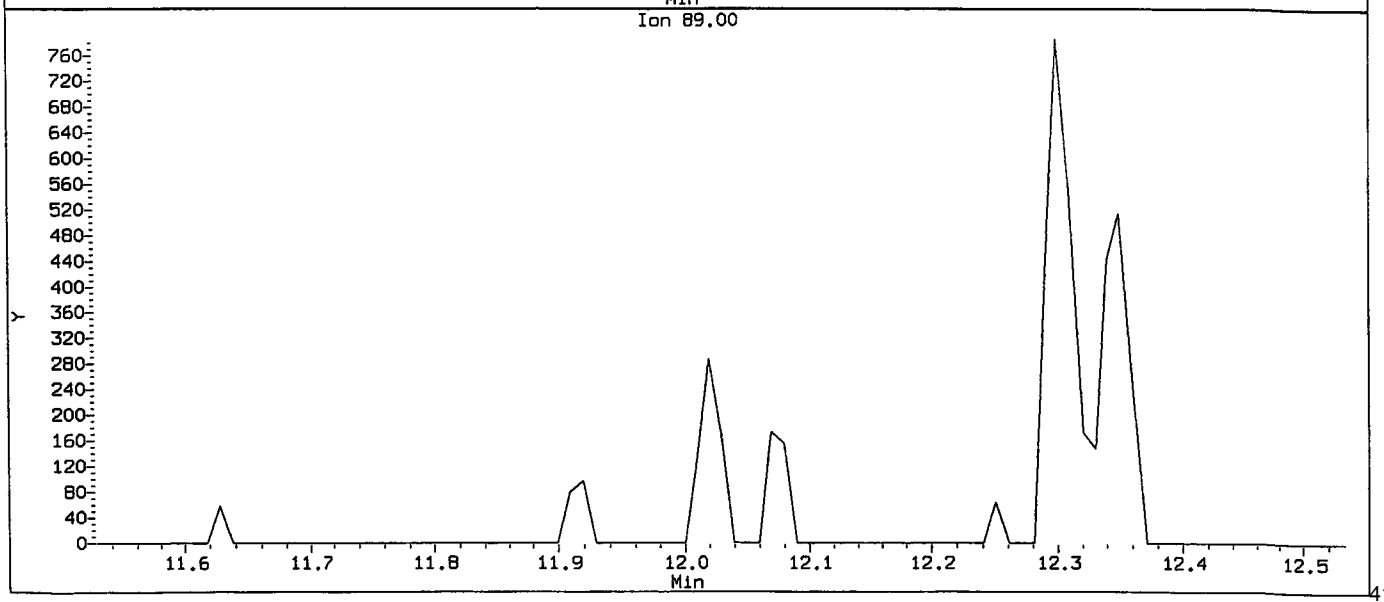


Data File: /chem1/finn5.i/09MAR11.b/0020309.d/0020309.LG
Injection Date: 09-MAR-2011 16:51
Instrument: finn5.i
Client Sample ID: VSTD2

Compound: Trans-1,4-Dichloro 2-Butene
CAS Number:



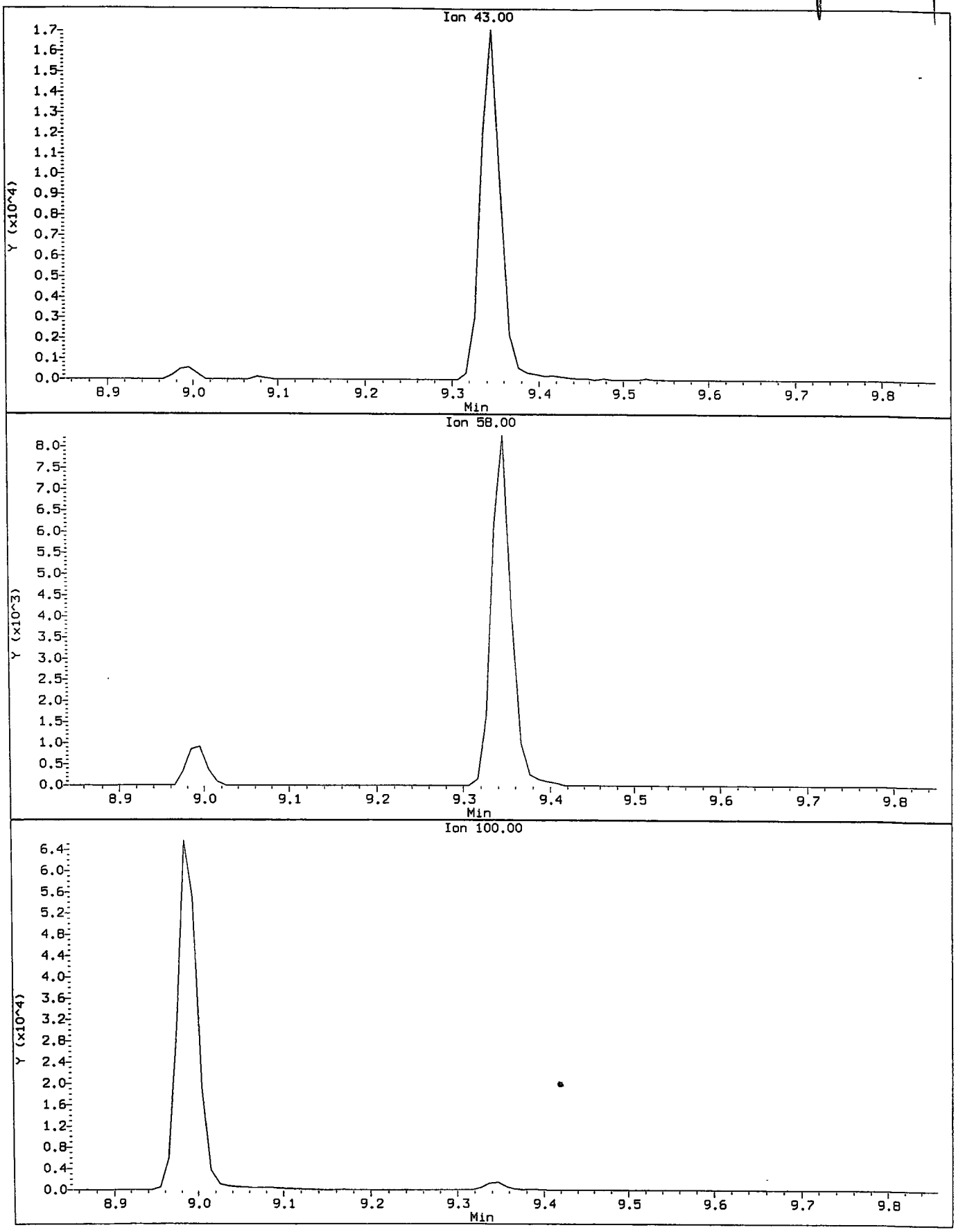




SS83 : 00416

Data File: /chem1/finn5.i/09MAR11.b/0050309.d/0050309.LG
Injection Date: 09-MAR-2011 16:18
Instrument: finn5.i
Client Sample ID: VSTD5

Compound: 2-Hexanone
CAS Number:



SS83 : 00417

Volatile Raw Data
Run Logs, Continuing Calibrations, and Raw Data

ARI Job ID: SS83

Analytical Resources, Incorporated
Analytical Chemists and Consultants

VOA Analyst Notes / Corrective Action Log

ARI Project ID: SS83 Client ID: Floyd Snider

ARI SOP: **404S**(Gas) **410S**(BTEX) **430S**(VPH) **700S**(8260C) **703S**(SIM) **706S**(524.2) **710S**(RSK-175)

Parameter(s): _____

Instrument: NT-2 NT-3 NT-5 NT-7 NT-9 PID-1 PID-2 PID-3 FID-6 FINN-5

Purge Volume (mL) 5 Curve Date: 3/9/11 Analysis Start Date: 4/11/11

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
ICal acceptable?	YES / NO	CCal acceptable?	YES / NO
Q flag applied?	YES / NO / NA	Q flag applied?	YES / NO / NA
Manual Integrations for ICal?	YES / NO	Manual Integrations for Samples?	Yes / NO
Special Analysis Criteria Met?	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):

QC on Q

Additional Details on Reverse: Yes / No

Analyst: _____ **Date:** 4/25/11

Reviewer: _____ **Date:** 4/26/11

SS83:00419

Analytical Resources Inc.: Organics Instrument Log

FINN5 Serial No.: 5500-000421A

Date: 4/21/11 Analysis: 8260C Analyst: IP

GC Program: F5 Column No: 821729 Column Type: MTX502-2

Instrument Tune (.U or .CT.): BFB0421 EM Voltage: 1525

Calibration File: 0500421 Curve Date: 3/9/11

IS/SS	Ical/Ccal	LCS/ICV
W682-1	W674-2 4/21/11	W685-2
	W685-2	

INTERNAL STANDARD SUMMARY FOR DATABATCH - /chem1/finn5.i/21APR11.b

	Time	Filename	LabID	ClientID	WT								
1	0824	BFB0421.d	BFB0421	BFB0421	0 00								
2	0845	0500421.d	CC0421	VSTD50	5 00	6 43	98800	7.44	164296	10 57	162303	13.26	84312
3	0927	LCS0421.d	LCS0421	LCS0421	5 00	6 42	94858	7.43	161101	10.57	155234	13.26	83116
4	0955	LCS0421A.d	LCS0421	LCS0421	5.00	6.44	88745	7.45	146764	10.59	142730	13.27	77088
5	1023	MB0421.d	MB0421	MB0421	5.00	6.43	64828	7.44	111942	10 57	109630	13.26	56470
6	1104	SS83A.d	SS83A	DMA-TP1-0-3-041911	5.00	6.42	85594	7.43	147703	10 57	132603	13.26	54242
7	1139	SS83B.d	SS83B	DMA-TP1-3-4.5-04191	5 00	6.42	64702	7 43	112223	10.57	91377	13 26	30056
8	1201	SS83C.d	SS83C	DMA-TP1-4.5-5.5-041	5.00	6 43	77563	7 44	134520	10.58	130270	13.26	64787
9	1229	SS83D.d	SS83D	DMA-TP2-1.5-3-04191	5 00	6 44	67917	7.45	118382	10.59	104708	13.28	36883
10	1257	SS83E.d	SS83E	DMA-TP2-3-4-041911	5.00	6.43	90118	7.44	157742	10.58	156685	13.27	80568
11	1325	SS83F.d	SS83F	DMA-TP6-0-2.5-04191	5.00	6 44	76462	7 45	135192	10.58	128520	13.27	51962
12	1353	SS83G.d	SS83G	DMA-TP6-2.5-5-04191	5 00	6.42	69080	7.43	121373	10.57	115458	13.25	47591
13	1420	SS83H.d	SS83H	DMA-TP4-0-1.5-04201	5.00	6.42	62469	7.43	109224	10.57	79551	13 25	21244
14	1448	SS83I.d	SS83I	DMA-TP4-1.5-2-04201	5 00	6.42	71412	7.43	125409	10.57	120700	13.26	58007
15	1516	SS83J.d	SS83J	DMA-TP5-1.5-2-04201	5 00	6.42	70490	7.43	121814	10.57	114711	13.25	43569
16	1544	SS83K.d	SS83K	DMA-TP5-1.5-2-04201	5.00	6.44	65022	7.45	113607	10.58	110122	13.27	43558
17	1612	SS83L.d	SS83L	DMA-TP5-2-3-042011	5.00	6.44	64614	7.45	113942	10.58	114907	13.27	61035
18	1640	SS83M.d	SS83M	DMA-TP3-2-3-042011	5.00	6.43	66997	7.43	117618	10.57	119347	13.26	61802
19	1707	SS83N.d	SS83N	DMA-TP3-3-4-042011	5.00	6.44	77484	7.45	136824	10.58	131621	13.27	55965
20	1735	SS83O.d	SS83O	DMA-TP3-5-6-042011	5.00	6.44	87257	7.45	150121	10.59	146225	13.27	70874
21	1803	SS83P.d	SS83P	DMA-RB-042011	1	6.44	86532	7.45	154314	10.58	155356	13.27	79394
22	1831	SS83Q.d	SS83Q	TP-TB-042011	1	6.42	85248	7.43	152131	10.57	153632	13.25	79171
23	1858	SS83OMS.d	SS83OMS	DMA-TP3-5-6-042 MS	5.00	6.43	74639	7.44	130809	10.58	130561	13.27	67421
24	1926	SS83OMSD.d	SS83OMSD	DMA-TP3-5-6-042 MSD	5.00	6.43	83123	7.44	145400	10.58	141886	13.27	74648

Maint

Maint

Every line must contain information or be lined out; make all entries legible. Start a new page for each QC period.

Data File: /chem1/finn5.i/21APR11.b/BFB0421.d

Date : 21-APR-2011 08:24

Client ID: BFB0421

Instrument: finn5.i

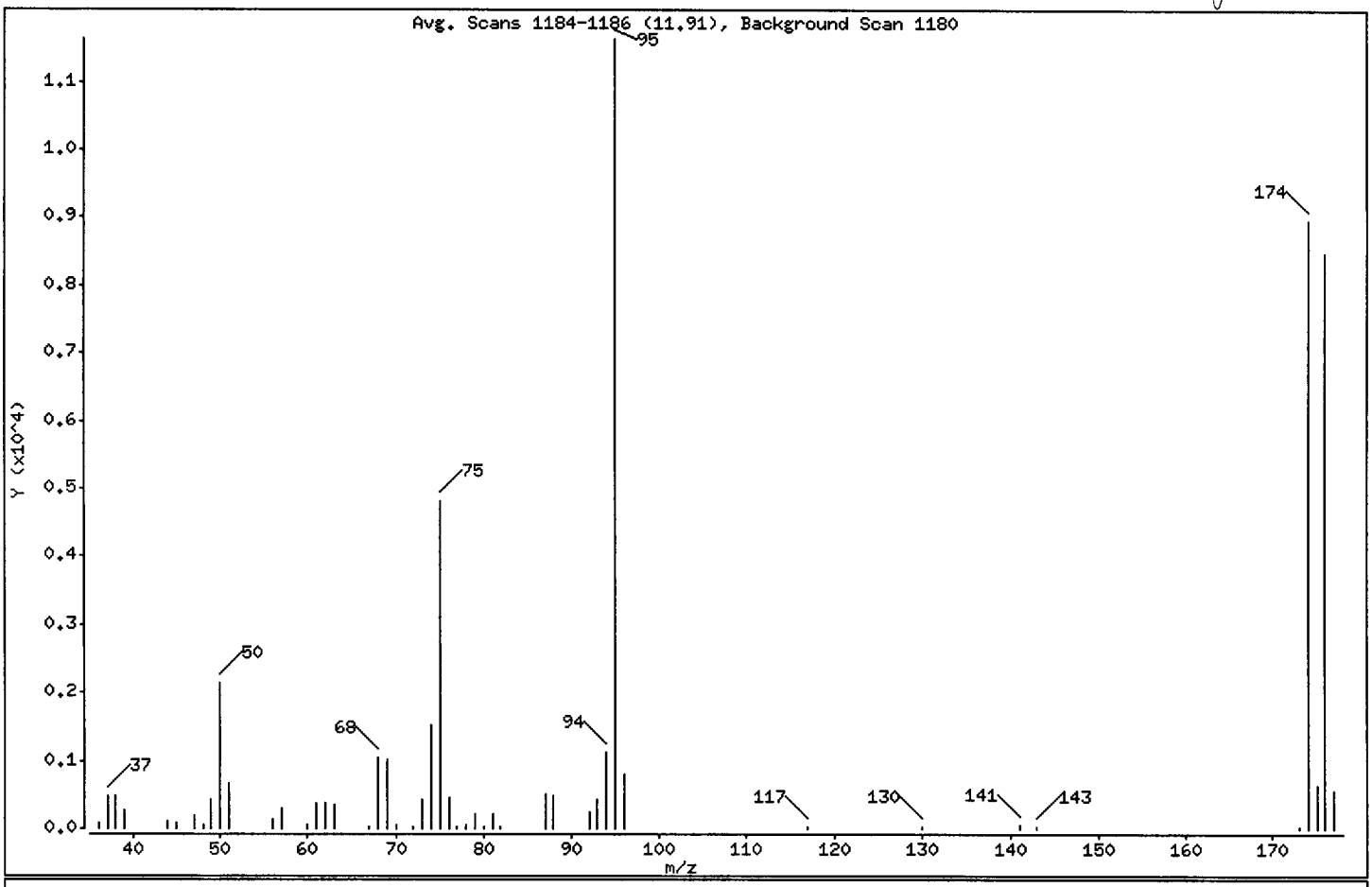
Sample Info: BFB0421,BFB0421,,1,21APR11,,

Operator: PB

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	18.29
75	30.00 - 66.00% of mass 95	41.35
96	5.00 - 9.00% of mass 95	6.90
173	Less than 2.00% of mass 174	0.20 (0.26)
174	50.00 - 101.00% of mass 95	77.04
175	4.00 - 9.00% of mass 174	5.42 (7.03)
176	93.00 - 101.00% of mass 174	72.98 (94.73)
177	5.00 - 9.00% of mass 176	4.84 (6.63)

Date : 21-APR-2011 08:24

Client ID: BFB0421 Instrument: finn5.i

Sample Info: BFB0421,BFB0421,,1,21APR11,,

Operator: PB

Column phase: RTX502.2 Column diameter: 0.18

Data File: BFB0421.d
Spectrum: Avg. Scans 1184-1186 (11.91), Background Scan 1180
Location of Maximum: 95.00
Number of points: 48

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	89	60.00	57	77.00	18	117.00	38
37.00	492	61.00	382	78.00	60	130.00	17
38.00	484	62.00	387	79.00	223	141.00	53
39.00	278	63.00	342	80.00	36	143.00	21
44.00	111	67.00	17	81.00	219	173.00	23
45.00	79	68.00	1048	82.00	28	174.00	8961
47.00	186	69.00	1006	87.00	506	175.00	630
48.00	41	70.00	52	88.00	488	176.00	8489
49.00	424	72.00	20	92.00	253	177.00	563
50.00	2128	73.00	427	93.00	417		
51.00	660	74.00	1526	94.00	1114		
56.00	140	75.00	4810	95.00	11632		
57.00	297	76.00	459	96.00	803		

Data File: /chem1/finn5.i/21APR11.b/BFB0421.d

Date : 21-APR-2011 08:24

Client ID: BFB0421

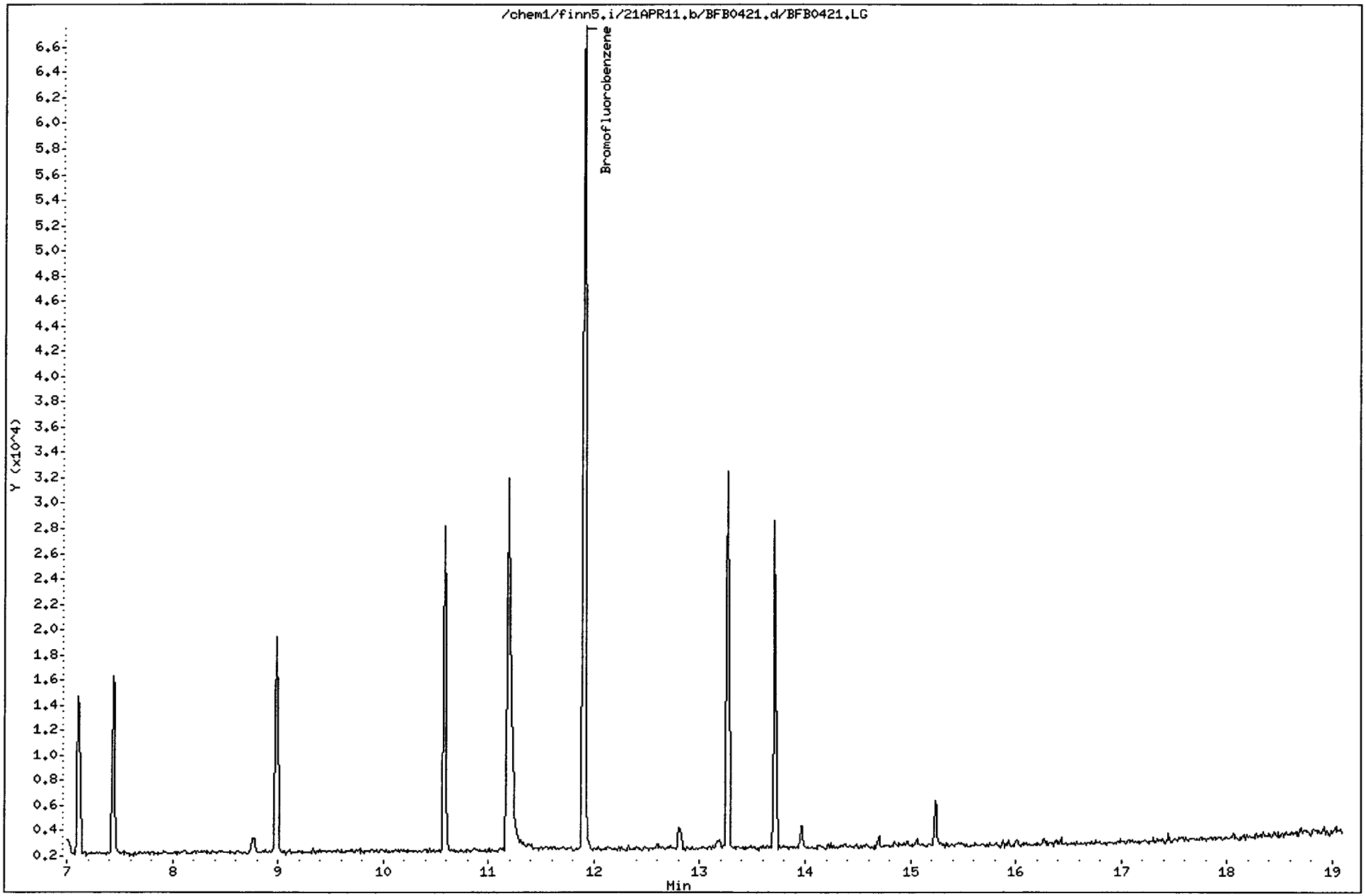
Sample Info: BFB0421,BFB0421,,1,21APR11,,

Column phase: RTX502.2

Instrument: finn5.i

Operator: PB

Column diameter: 0.18



Analytical Resources, Inc.

8260C

Data file : /chem1/finn5.i/21APR11.b/0500421.d
Lab Smp Id: CC0421 Client Smp ID: VSTD50
Inj Date : 21-APR-2011 08:45
Operator : PB Inst ID: finn5.i
Smp Info : CC0421,5,5,0
Misc Info : 11-
Comment :
Method : /chem1/finn5.i/21APR11.b/s8260b.m
Meth Date : 21-Apr-2011 09:52 patrickb Quant Type: ISTD
Cal Date : 09-MAR-2011 13:53 Cal File: 2000309.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	5.00000	Sample Amount
M	0.00000	Moisture (%)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
1 Dichlorodifluoromethane	85	2.874	2.874	(0.447)	31116	50.0000	31.061
2 Chloromethane	50	3.156	3.156	(0.491)	67868	50.0000	38.838
3 Vinyl Chloride	62	3.266	3.266	(0.508)	91899	50.0000	42.249
4 Bromomethane	94	3.739	3.739	(0.581)	30806	50.0000	40.834
5 Chloroethane	64	3.809	3.809	(0.592)	70713	50.0000	48.802
6 Trichlorofluoromethane	101	4.070	4.070	(0.633)	97730	50.0000	49.568
7 Acrolein	56	4.452	4.452	(0.692)	64562	250.000	212.08
8 112Trichloro122Trifluoroethane	101	4.462	4.462	(0.694)	76998	50.0000	49.066
9 Acetone	43	4.502	4.502	(0.700)	99574	250.000	220.89
10 1,1-Dichloroethene	96	4.653	4.653	(0.723)	52877	50.0000	48.422
11 Bromoethane	108	4.864	4.864	(0.756)	43229	50.0000	50.400
12 Iodomethane	142	4.965	4.965	(0.772)	55031	50.0000	53.922
13 Methylene Chloride	84	5.085	5.085	(0.791)	61170	50.0000	46.880
14 Acrylonitrile	53	5.166	5.166	(0.803)	19028	50.0000	37.848(Q)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
	16 Methyl tert-Butyl Ether	73	5.206	5.206	(0.809)	276117	50.0000	51.469(Q)
	15 Carbon Disulfide	76	5.176	5.176	(0.805)	187988	50.0000	45.517
	17 Trans-1,2-Dichloroethene	96	5.367	5.367	(0.834)	60918	50.0000	48.392
	18 Vinyl Acetate	43	5.688	5.688	(0.884)	112754	50.0000	46.063
	19 1,1-Dichloroethane	63	5.739	5.739	(0.892)	107171	50.0000	46.848
	20 2-Butanone	43	6.090	6.090	(0.947)	143939	250.000	221.14
	21 2,2-Dichloropropane	77	6.261	6.261	(0.973)	83265	50.0000	54.625
	22 Cis-1,2-Dichloroethene	96	6.301	6.301	(0.980)	67313	50.0000	50.416
*	23 Pentafluorobenzene	168	6.432	6.432	(1.000)	98800	50.0000	
	24 Chloroform	83	6.442	6.442	(1.002)	105609	50.0000	49.621
	26 Bromochloromethane	128	6.603	6.603	(1.027)	34736	50.0000	49.720
$	25 Dibromofluoromethane	111	6.643	6.643	(1.033)	63342	50.0000	53.935(Q)
	27 1,1,1-Trichloroethane	97	6.824	6.824	(1.061)	89525	50.0000	54.629
	29 1,1-Dichloropropene	75	6.975	6.975	(0.938)	83452	50.0000	47.176
	30 Carbon Tetrachloride	117	7.085	7.085	(0.953)	84700	50.0000	52.621
$	31 d4-1,2-Dichloroethane	65	7.105	7.105	(1.105)	56982	50.0000	52.381
	32 1,2-Dichloroethane	62	7.186	7.186	(0.966)	71264	50.0000	48.828
	33 Benzene	78	7.236	7.236	(0.973)	228892	50.0000	49.569
*	34 1,4-Difluorobenzene	114	7.437	7.437	(1.000)	164296	50.0000	
	35 Trichloroethene	95	7.799	7.799	(1.049)	68091	50.0000	50.270
	36 1,2-Dichloropropane	63	7.960	7.960	(1.070)	68274	50.0000	47.066
	37 Bromodichloromethane	83	8.201	8.201	(1.103)	83450	50.0000	50.766
	39 Dibromomethane	93	8.261	8.261	(1.111)	40878	50.0000	47.546
	40 2-Chloroethyl Vinyl Ether	63	8.422	8.422	(1.132)	20313	50.0000	65.005
	41 4-Methyl-2-Pentanone	58	8.452	8.452	(1.136)	120070	250.000	227.87
	42 Cis 1,3-dichloropropene	75	8.703	8.703	(1.170)	97696	50.0000	50.505
$	43 d8-Toluene	98	8.975	8.975	(1.207)	186434	50.0000	50.197
	44 Toluene	92	9.065	9.065	(1.219)	147508	50.0000	50.099
	45 Trans 1,3-Dichloropropene	75	9.196	9.196	(1.236)	85273	50.0000	52.123
	46 2-Hexanone	43	9.336	9.336	(0.883)	242395	250.000	211.52
	47 1,1,2-Trichloroethane	97	9.377	9.377	(1.261)	53752	50.0000	49.317
	48 1,3-Dichloropropane	76	9.638	9.638	(0.912)	100256	50.0000	48.562
	49 Tetrachloroethene	166	9.748	9.748	(0.922)	73638	50.0000	49.182
	50 Chlorodibromomethane	129	9.960	9.960	(0.942)	75226	50.0000	51.084
	51 1,2-Dibromoethane	107	10.181	10.181	(1.369)	63793	50.0000	50.532
*	52 d5-Chlorobenzene	117	10.573	10.573	(1.000)	162303	50.0000	
	53 Chlorobenzene	112	10.623	10.623	(1.005)	164341	50.0000	48.969
	54 Ethyl Benzene	91	10.653	10.653	(1.008)	261886	50.0000	50.823
	55 1,1,1,2-Tetrachloroethane	131	10.643	10.643	(1.007)	62856	50.0000	50.440
	56 m,p-xylene	106	10.733	10.733	(1.015)	210894	100.000	100.84
	57 o-Xylene	106	11.226	11.226	(1.062)	106729	50.0000	49.119
	58 Styrene	104	11.256	11.256	(1.065)	170309	50.0000	49.107
	59 Isopropyl Benzene	105	11.608	11.608	(0.876)	271480	50.0000	54.164
	60 Bromoform	173	11.658	11.658	(0.879)	49947	50.0000	50.132
	61 1,1,2,2-Tetrachloroethane	83	11.779	11.779	(0.889)	81473	50.0000	47.715
$	62 4-Bromofluorobenzene	95	11.899	11.899	(1.125)	80585	50.0000	48.371
	63 1,2,3-Trichloropropane	110	11.949	11.949	(0.901)	20738	50.0000	50.352

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
65	Trans-1,4-Dichloro 2-Butene	53	12.010	12.010	(0.906)	20252	50.0000	45.548
66	N-Propyl Benzene	91	12.060	12.060	(0.910)	303067	50.0000	54.365
67	Bromobenzene	156	12.140	12.140	(0.916)	78433	50.0000	50.486
68	1,3,5-Trimethyl Benzene	105	12.231	12.231	(0.923)	210340	50.0000	52.643
69	2-Chloro Toluene	91	12.281	12.281	(0.926)	198534	50.0000	51.503
70	4-Chloro Toluene	91	12.331	12.331	(0.930)	194291	50.0000	48.842
71	T-Butyl Benzene	119	12.643	12.643	(0.954)	199315	50.0000	51.974
72	1,2,4-Trimethylbenzene	105	12.693	12.693	(0.958)	208096	50.0000	51.886
73	S-Butyl Benzene	105	12.884	12.884	(0.972)	290310	50.0000	54.297
74	4-Isopropyl Toluene	119	13.035	13.035	(0.983)	224417	50.0000	53.553
75	1,3-Dichlorobenzene	146	13.176	13.176	(0.994)	137925	50.0000	50.600
* 76	d4-1,4-Dichlorobenzene	152	13.256	13.256	(1.000)	84312	50.0000	
77	1,4-Dichlorobenzene	146	13.296	13.296	(1.003)	133982	50.0000	49.374
78	N-Butyl Benzene	91	13.507	13.507	(1.019)	215017	50.0000	52.023
$ 79	d4-1,2-Dichlorobenzene	152	13.698	13.698	(1.033)	76947	50.0000	51.389
80	1,2-Dichlorobenzene	146	13.738	13.738	(1.036)	126393	50.0000	49.474
81	1,2-Dibromo 3-Chloropropane	75	14.643	14.643	(1.105)	12858	50.0000	42.055
82	1,2,4-Trichlorobenzene	180	15.688	15.688	(1.183)	80343	50.0000	44.072
83	Hexachloro 1,3-Butadiene	225	15.839	15.839	(1.195)	45243	50.0000	43.196
84	Naphthalene	128	16.010	16.010	(1.208)	166254	50.0000	41.366
85	1,2,3-Trichlorobenzene	180	16.291	16.291	(1.229)	73428	50.0000	40.856

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: finn5.i
Lab File ID: 0500421.d
Lab Smp Id: CC0421
Analysis Type: VOA
Quant Type: ISTD
Operator: PB
Method File: /chem1/finn5.i/21APR11.b/s8260b.m
Misc Info: 11-

Calibration Date: 21-APR-2011
Calibration Time: 08:45
Client Smp ID: VSTD50
Level: LOW
Sample Type: SOIL

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
23 Pentafluorobenzen	91022	45511	182044	98800	8.55
34 1,4-Difluorobenze	153104	76552	306208	164296	7.31
52 d5-Chlorobenzene	143720	71860	287440	162303	12.93
76 d4-1,4-Dichlorobe	77398	38699	154796	84312	8.93

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	6.44	5.94	6.94	6.43	-0.16
34 1,4-Difluorobenze	7.45	6.95	7.95	7.44	-0.13
52 d5-Chlorobenzene	10.59	10.09	11.09	10.57	-0.19
76 d4-1,4-Dichlorobe	13.28	12.78	13.78	13.26	-0.15

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.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: finn5.i Injection Date: 21-APR-2011 08:45
Lab File ID: 0500421.d Init. Cal. Date(s): 09-MAR-2011 09-MAR-2011
Analysis Type: SOIL Init. Cal. Times: 13:10 16:51
Lab Sample ID: CC0421 Quant Type: ISTD
Method: /chem1/finn5.i/21APR11.b/s8260b.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
1 Dichlorodifluoromethane	0.50697	0.31494	0.010	-37.87738	20.00000	Averaged	<-
2 Chloromethane	0.88433	0.68692	0.100	-22.32294	20.00000	Averaged	<-
3 Vinyl Chloride	1.10080	0.93015	0.010	-15.50232	20.00000	Averaged	
4 Bromomethane	0.38179	0.31180	0.010	-18.33175	20.00000	Averaged	
5 Chloroethane	0.73328	0.71572	0.010	-2.39504	20.00000	Averaged	
6 Trichlorofluoromethane	0.99777	0.98916	0.010	-0.86283	20.00000	Averaged	
7 Acrolein	0.15406	0.13069	0.010	-15.16697	20.00000	Averaged	
8 112Trichloro122Trifluoroeth	0.79416	0.77933	0.010	-1.86714	20.00000	Averaged	
9 Acetone	0.22812	0.20157	0.010	-11.64209	20.00000	Averaged	
10 1,1-Dichloroethene	0.55263	0.53519	0.010	-3.15696	20.00000	Averaged	
11 Bromoethane	0.43406	0.43754	0.010	0.80108	20.00000	Averaged	
12 Iodomethane	0.51648	0.55699	0.010	7.84489	20.00000	Averaged	
13 Methylene Chloride	0.66034	0.61913	0.010	-6.24058	20.00000	Averaged	
14 Acrylonitrile	0.25443	0.19260	0.010	-24.30296	20.00000	Averaged	<-
16 Methyl tert-Butyl Ether	2.71491	2.79469	0.010	2.93838	20.00000	Averaged	
15 Carbon Disulfide	2.09010	1.90270	0.010	-8.96600	20.00000	Averaged	
17 Trans-1,2-Dichloroethene	0.63707	0.61658	0.010	-3.21583	20.00000	Averaged	
18 Vinyl Acetate	1.23877	1.14123	0.010	-7.87399	20.00000	Averaged	
19 1,1-Dichloroethane	1.15770	1.08472	0.100	-6.30402	20.00000	Averaged	
20 2-Butanone	0.32940	0.29137	0.010	-11.54561	20.00000	Averaged	
21 2,2-Dichloropropane	0.77141	0.84276	0.010	9.24941	20.00000	Averaged	
22 Cis-1,2-Dichloroethene	0.67569	0.68130	0.010	0.83154	20.00000	Averaged	
24 Chloroform	1.07708	1.06891	0.010	-0.75870	20.00000	Averaged	
26 Bromochloromethane	0.35356	0.35158	0.010	-0.56099	20.00000	Averaged	
$ 25 Dibromofluoromethane	0.59433	0.64111	0.010	7.87005	20.00000	Averaged	
27 1,1,1-Trichloroethane	0.82934	0.90612	0.010	9.25825	20.00000	Averaged	
29 1,1-Dichloropropene	0.53834	0.50793	0.010	-5.64792	20.00000	Averaged	
30 Carbon Tetrachloride	0.48986	0.51554	0.010	5.24229	20.00000	Averaged	
$ 31 d4-1,2-Dichloroethane	0.55053	0.57674	0.010	4.76218	20.00000	Averaged	
32 1,2-Dichloroethane	0.44417	0.43376	0.010	-2.34347	20.00000	Averaged	
33 Benzene	1.40527	1.39316	0.010	-0.86183	20.00000	Averaged	
35 Trichloroethene	0.41221	0.41444	0.010	0.54033	20.00000	Averaged	
36 1,2-Dichloropropane	0.44146	0.41556	0.010	-5.86704	20.00000	Averaged	
37 Bromodichloromethane	0.50025	0.50792	0.010	1.53304	20.00000	Averaged	
39 Dibromomethane	0.26165	0.24881	0.010	-4.90868	20.00000	Averaged	

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: finn5.i Injection Date: 21-APR-2011 08:45
Lab File ID: 0500421.d Init. Cal. Date(s): 09-MAR-2011 09-MAR-2011
Analysis Type: SOIL Init. Cal. Times: 13:10 16:51
Lab Sample ID: CC0421 Quant Type: ISTD
Method: /chem1/finn5.i/21APR11.b/s8260b.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
40 2-Chloroethyl Vinyl Ether	0.09510	0.12364	0.001	30.00959	20.00000	Averaged	<- n/q
41 4-Methyl-2-Pentanone	0.16036	0.14616	0.010	-8.85276	20.00000	Averaged	
42 Cis 1,3-dichloropropene	0.58869	0.59464	0.010	1.01037	20.00000	Averaged	
$ 43 d8-Toluene	1.13029	1.13474	0.010	0.39345	20.00000	Averaged	
44 Toluene	0.89605	0.89781	0.010	0.19730	20.00000	Averaged	
45 Trans 1,3-Dichloropropene	0.49788	0.51902	0.010	4.24608	20.00000	Averaged	
46 2-Hexanone	0.35303	0.29869	0.010	-15.39096	20.00000	Averaged	
47 1,1,2-Trichloroethane	0.33170	0.32716	0.010	-1.36633	20.00000	Averaged	
48 1,3-Dichloropropane	0.63601	0.61771	0.010	-2.87668	20.00000	Averaged	
49 Tetrachloroethene	0.46125	0.45371	0.010	-1.63508	20.00000	Averaged	
50 Chlorodibromomethane	0.45366	0.46349	0.010	2.16870	20.00000	Averaged	
51 1,2-Dibromoethane	0.38419	0.38828	0.010	1.06439	20.00000	Averaged	
53 Chlorobenzene	1.03387	1.01255	0.300	-2.06143	20.00000	Averaged	
54 Ethyl Benzene	1.58744	1.61356	0.010	1.64555	20.00000	Averaged	
55 1,1,1,2-Tetrachloroethane	0.38390	0.38728	0.010	0.87944	20.00000	Averaged	
56 m,p-xylene	0.64427	0.64969	0.010	0.84165	20.00000	Averaged	
57 o-Xylene	0.66938	0.65759	0.010	-1.76155	20.00000	Averaged	
58 Styrene	1.06840	1.04933	0.010	-1.78506	20.00000	Averaged	
59 Isopropyl Benzene	2.97240	3.21993	0.010	8.32750	20.00000	Averaged	
60 Bromoform	0.59084	0.59240	0.100	0.26475	20.00000	Averaged	
61 1,1,2,2-Tetrachloroethane	1.01261	0.96633	0.300	-4.57074	20.00000	Averaged	
$ 62 4-Bromofluorobenzene	0.51323	0.49651	0.010	-3.25713	20.00000	Averaged	
63 1,2,3-Trichloropropane	0.24426	0.24598	0.010	0.70459	20.00000	Averaged	
65 Trans-1,4-Dichloro 2-Butene	0.26369	0.24021	0.010	-8.90293	20.00000	Averaged	
66 N-Propyl Benzene	3.30593	3.59456	0.010	8.73092	20.00000	Averaged	
67 Bromobenzene	0.92132	0.93027	0.010	0.97162	20.00000	Averaged	
68 1,3,5-Trimethyl Benzene	2.36953	2.49476	0.010	5.28525	20.00000	Averaged	
69 2-Chloro Toluene	2.28602	2.35474	0.010	3.00586	20.00000	Averaged	
70 4-Chloro Toluene	2.35906	2.30442	0.010	-2.31642	20.00000	Averaged	
71 T-Butyl Benzene	2.27420	2.36401	0.010	3.94871	20.00000	Averaged	
72 1,2,4-Trimethylbenzene	2.37846	2.46815	0.010	3.77110	20.00000	Averaged	
73 S-Butyl Benzene	3.17074	3.44326	0.010	8.59469	20.00000	Averaged	
74 4-Isopropyl Toluene	2.48513	2.66173	0.010	7.10657	20.00000	Averaged	
75 1,3-Dichlorobenzene	1.61648	1.63589	0.010	1.20045	20.00000	Averaged	
77 1,4-Dichlorobenzene	1.60925	1.58911	0.010	-1.25138	20.00000	Averaged	

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: finn5.i Injection Date: 21-APR-2011 08:45
Lab File ID: 0500421.d Init. Cal. Date(s): 09-MAR-2011 09-MAR-2011
Analysis Type: SOIL Init. Cal. Times: 13:10 16:51
Lab Sample ID: CC0421 Quant Type: ISTD
Method: /chem1/finn5.i/21APR11.b/s8260b.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
78 N-Butyl Benzene	2.45104	2.55024	0.010	4.04686	20.00000	Averaged
$ 79 d4-1,2-Dichlorobenzene	0.88798	0.91265	0.010	2.77753	20.00000	Averaged
80 1,2-Dichlorobenzene	1.51503	1.49911	0.010	-1.05115	20.00000	Averaged
81 1,2-Dibromo 3-Chloropropane	0.18132	0.15251	0.010	-15.89062	20.00000	Averaged
82 1,2,4-Trichlorobenzene	1.08110	0.95292	0.010	-11.85621	20.00000	Averaged
83 Hexachloro 1,3-Butadiene	0.62115	0.53662	0.010	-13.60851	20.00000	Averaged
84 Naphthalene	2.38344	1.97188	0.010	-17.26740	20.00000	Averaged
85 1,2,3-Trichlorobenzene	1.06583	0.87091	0.010	-18.28818	20.00000	Averaged

Data File: /chem1/finn5.i/21APR11.b/0500421.d

Date : 21-APR-2011 08:45

Client ID: VSTD50

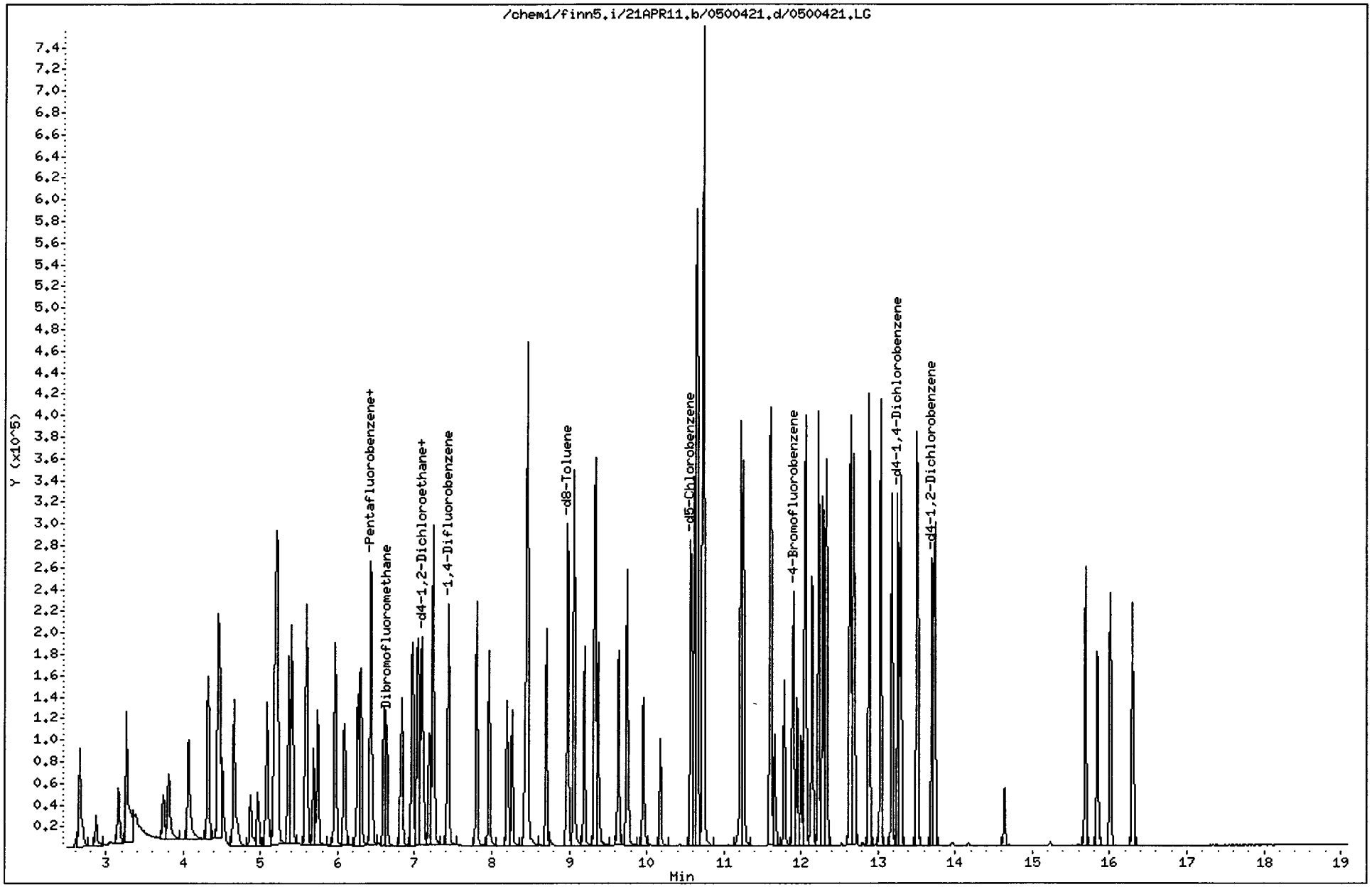
Sample Info: CC0421,5,5,0

Column phase: Rtx502.2

Instrument: finn5.i

Operator: PB

Column diameter: 0.18



MANUAL INTEGRATION SUMMARY FOR DATABATCH - /chem1/finn5.i/21APR11.b

ARI Job No.: BFB0 Method: bfb8260.m Instrument: finn5.i Date: 21-APR-2011

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0824	BFB0421.d	BFB0421	BFB0421	1	NO MANUAL INTEGRATION
0845	0500421.d	CC0421	VSTD50	1	NO MANUAL INTEGRATION
0927	LCS0421.d	LCS0421	LCS0421	1	NO MANUAL INTEGRATION
0955	LCS0421A.d	LCS0421	LCS0421	1	NO MANUAL INTEGRATION
1023	MB0421.d	MB0421	MB0421	1	NO MANUAL INTEGRATION
1104	SS83A.d	SS83A	DMA-TP1-0-	1	NO MANUAL INTEGRATION
1139	SS83B.d	SS83B	DMA-TP1-3-	1	m,p-xylene,
1201	SS83C.d	SS83C	DMA-TP1-4.	1	NO MANUAL INTEGRATION
1229	SS83D.d	SS83D	DMA-TP2-1.	1	NO MANUAL INTEGRATION
1257	SS83E.d	SS83E	DMA-TP2-3-	1	NO MANUAL INTEGRATION
1325	SS83F.d	SS83F	DMA-TP6-0-	1	NO MANUAL INTEGRATION
1353	SS83G.d	SS83G	DMA-TP6-2.	1	NO MANUAL INTEGRATION
1420	SS83H.d	SS83H	DMA-TP4-0-	1	NO MANUAL INTEGRATION
1448	SS83I.d	SS83I	DMA-TP4-1.	1	NO MANUAL INTEGRATION
1516	SS83J.d	SS83J	DMA-TP5-1.	1	NO MANUAL INTEGRATION
1544	SS83K.d	SS83K	DMA-TP5-1.	1	NO MANUAL INTEGRATION
1612	SS83L.d	SS83L	DMA-TP5-2-	1	NO MANUAL INTEGRATION
1640	SS83M.d	SS83M	DMA-TP3-2-	1	NO MANUAL INTEGRATION
1707	SS83N.d	SS83N	DMA-TP3-3-	1	NO MANUAL INTEGRATION
1735	SS83O.d	SS83O	DMA-TP3-5-	1	NO MANUAL INTEGRATION
1803	SS83P.d	SS83P	DMA-RB-042	1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - /chem1/finn5.i/21APR11.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1831	SS83Q.d	SS83Q	TP-TB-0420	1	NO MANUAL INTEGRATION
1858	SS83OMS.d	SS83OMS	DMA-TP3-5-	1	NO MANUAL INTEGRATION
1926	SS83OMSD.d	SS83OMSD	DMA-TP3-5-	1	NO MANUAL INTEGRATION

SS83.0424

Q-FLAG SUMMARY FOR DATABATCH - /chem1/finn5.i/21APR11.b

Instrument: finn5.i Date: 21-APR-2011 Method: s8260b.m

INITIAL CAL: 09-MAR-2011

Compound	%RSD or R^2
NO Q-FLAGS	

CONTINUING CAL: 21-APR-2011

Compound	%D
Chloromethane	-22.3
Acrylonitrile	-24.3
2-Chloroethyl Vinyl Ether	30.0
Dichlorodifluoromethane	-37.9

Analytical Resources, Inc.

8260C

Data file : /chem1/finn5.i/21APR11.b/LCS0421.d
Lab Smp Id: LCS0421 Client Smp ID: LCS0421
Inj Date : 21-APR-2011 09:27
Operator : PB Inst ID: finn5.i
Smp Info : LCS0421,5,5,0
Misc Info : 11-8725
Comment :
Method : /chem1/finn5.i/21APR11.b/s8260b.m
Meth Date : 25-Apr-2011 16:10 patrickb Quant Type: ISTD
Cal Date : 09-MAR-2011 13:53 Cal File: 2000309.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	5.00000	Sample Amount
M	0.00000	Moisture (%)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
1 Dichlorodifluoromethane	85	2.864	2.874	(0.446)	32852	34.1567	34.157
2 Chloromethane	50	3.156	3.156	(0.491)	71760	42.7726	42.773
3 Vinyl Chloride	62	3.256	3.266	(0.507)	97446	46.6608	46.661
4 Bromomethane	94	3.739	3.739	(0.582)	35447	48.9388	48.939
5 Chloroethane	64	3.809	3.809	(0.593)	72640	52.2156	52.216
6 Trichlorofluoromethane	101	4.060	4.070	(0.632)	102648	54.2271	54.227
7 Acrolein	56	4.442	4.452	(0.692)	70896	242.568	242.57
8 112Trichloro122Trifluoroethane	101	4.452	4.462	(0.693)	79334	52.6558	52.656
9 Acetone	43	4.502	4.502	(0.701)	110039	254.256	254.26
10 1,1-Dichloroethene	96	4.653	4.653	(0.725)	55759	53.1830	53.183
11 Bromoethane	108	4.864	4.864	(0.757)	45252	54.9521	54.952
12 Iodomethane	142	4.965	4.965	(0.773)	55187	56.3224	56.322
13 Methylene Chloride	84	5.075	5.085	(0.790)	65020	51.9010	51.901
14 Acrylonitrile	53	5.166	5.166	(0.804)	24525	50.8080	50.808(Q)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
	16 Methyl tert-Butyl Ether	73	5.206	5.206	(0.811)	295515	57.3746	57.374(Q)
	15 Carbon Disulfide	76	5.176	5.176	(0.806)	198415	50.0384	50.038
	17 Trans-1,2-Dichloroethene	96	5.357	5.367	(0.834)	63640	52.6552	52.655
	18 Vinyl Acetate	43	5.688	5.688	(0.886)	122727	52.2208	52.221
	19 1,1-Dichloroethane	63	5.739	5.739	(0.894)	117332	53.4216	53.422
	20 2-Butanone	43	6.080	6.090	(0.947)	163491	261.614	261.61
	21 2,2-Dichloropropane	77	6.251	6.261	(0.973)	86158	58.8715	58.871
	22 Cis-1,2-Dichloroethene	96	6.291	6.301	(0.980)	68180	53.1874	53.187
*	23 Pentafluorobenzene	168	6.422	6.432	(1.000)	94858	50.0000	
	24 Chloroform	83	6.442	6.442	(1.003)	110278	53.9679	53.968
	26 Bromochloromethane	128	6.603	6.603	(1.028)	37002	55.1638	55.164
$	25 Dibromofluoromethane	111	6.633	6.643	(1.033)	59943	53.1623	53.162(Q)
	27 1,1,1-Trichloroethane	97	6.824	6.824	(1.063)	94476	60.0462	60.046
	29 1,1-Dichloropropene	75	6.965	6.975	(0.938)	88891	51.2475	51.248
	30 Carbon Tetrachloride	117	7.085	7.085	(0.954)	89706	56.8361	56.836
$	31 d4-1,2-Dichloroethane	65	7.095	7.105	(1.105)	55442	53.0831	53.083
	32 1,2-Dichloroethane	62	7.186	7.186	(0.968)	77097	53.8721	53.872
	33 Benzene	78	7.236	7.236	(0.974)	242594	53.5786	53.579
*	34 1,4-Difluorobenzene	114	7.427	7.437	(1.000)	161101	50.0000	
	35 Trichloroethene	95	7.799	7.799	(1.050)	72181	54.3466	54.347
	36 1,2-Dichloropropane	63	7.960	7.960	(1.072)	72909	51.2583	51.258
	37 Bromodichloromethane	83	8.191	8.201	(1.103)	87556	54.3208	54.321
	39 Dibromomethane	93	8.261	8.261	(1.112)	45087	53.4808	53.481
	40 2-Chloroethyl Vinyl Ether	63	8.412	8.422	(1.133)	22595	73.7411	73.741(Q)
	41 4-Methyl-2-Pentanone	58	8.452	8.452	(1.138)	137108	265.363	265.36
	42 Cis 1,3-dichloropropene	75	8.703	8.703	(1.172)	104440	55.0622	55.062
$	43 d8-Toluene	98	8.975	8.975	(1.208)	176244	48.3944	48.394
	44 Toluene	92	9.055	9.065	(1.219)	156017	54.0397	54.040
	45 Trans 1,3-Dichloropropene	75	9.196	9.196	(1.238)	90655	56.5115	56.512
	46 2-Hexanone	43	9.326	9.336	(0.882)	282569	257.809	257.81
	47 1,1,2-Trichloroethane	97	9.377	9.377	(1.263)	57674	53.9650	53.965
	48 1,3-Dichloropropane	76	9.628	9.638	(0.911)	108338	54.8659	54.866
	49 Tetrachloroethene	166	9.748	9.748	(0.922)	78692	54.9508	54.951
	50 Chlorodibromomethane	129	9.949	9.960	(0.941)	78005	55.3834	55.383
	51 1,2-Dibromoethane	107	10.181	10.181	(1.371)	69141	55.8549	55.855
*	52 d5-Chlorobenzene	117	10.573	10.573	(1.000)	155234	50.0000	
	53 Chlorobenzene	112	10.613	10.623	(1.004)	175539	54.6880	54.688
	54 Ethyl Benzene	91	10.653	10.653	(1.008)	277265	56.2576	56.258
	55 1,1,1,2-Tetrachloroethane	131	10.643	10.643	(1.007)	65939	55.3233	55.323
	56 m,p-xylene	106	10.733	10.733	(1.015)	223741	111.857	111.86
	57 o-Xylene	106	11.216	11.226	(1.061)	112912	54.3312	54.331
	58 Styrene	104	11.246	11.256	(1.064)	182127	54.9065	54.906
	59 Isopropyl Benzene	105	11.598	11.608	(0.875)	287571	58.2000	58.200
	60 Bromoform	173	11.658	11.658	(0.879)	54310	55.2963	55.296
	61 1,1,2,2-Tetrachloroethane	83	11.779	11.779	(0.889)	89873	53.3914	53.391
$	62 4-Bromofluorobenzene	95	11.899	11.899	(1.125)	77071	48.3686	48.369
	63 1,2,3-Trichloropropane	110	11.949	11.949	(0.901)	23094	56.8773	56.877

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
65	Trans-1,4-Dichloro 2-Butene	53	12.000	12.010	(0.905)	23562	53.7534	53.753
66	N-Propyl Benzene	91	12.060	12.060	(0.910)	321485	58.4996	58.500
67	Bromobenzene	156	12.140	12.140	(0.916)	82811	54.0710	54.071
68	1,3,5-Trimethyl Benzene	105	12.231	12.231	(0.923)	222308	56.4389	56.439
69	2-Chloro Toluene	91	12.281	12.281	(0.926)	213999	56.3140	56.314
70	4-Chloro Toluene	91	12.331	12.331	(0.930)	205609	52.4310	52.431
71	T-Butyl Benzene	119	12.633	12.643	(0.953)	212348	56.1700	56.170
72	1,2,4-Trimethylbenzene	105	12.683	12.693	(0.957)	222309	56.2273	56.227
73	S-Butyl Benzene	105	12.884	12.884	(0.972)	305740	58.0065	58.006
74	4-Isopropyl Toluene	119	13.035	13.035	(0.983)	238283	57.6806	57.681
75	1,3-Dichlorobenzene	146	13.176	13.176	(0.994)	147779	54.9955	54.996
* 76	d4-1,4-Dichlorobenzene	152	13.256	13.256	(1.000)	83116	50.0000	
77	1,4-Dichlorobenzene	146	13.296	13.296	(1.003)	144366	53.9668	53.967
78	N-Butyl Benzene	91	13.507	13.507	(1.019)	230428	56.5548	56.555
$ 79	d4-1,2-Dichlorobenzene	152	13.698	13.698	(1.033)	74992	50.8038	50.804
80	1,2-Dichlorobenzene	146	13.728	13.738	(1.036)	135509	53.8062	53.806
81	1,2-Dibromo 3-Chloropropane	75	14.633	14.643	(1.104)	14899	49.4304	49.430
82	1,2,4-Trichlorobenzene	180	15.678	15.688	(1.183)	92090	51.2429	51.243
83	Hexachloro 1,3-Butadiene	225	15.839	15.839	(1.195)	49768	48.1994	48.199
84	Naphthalene	128	16.010	16.010	(1.208)	199197	50.2765	50.276
85	1,2,3-Trichlorobenzene	180	16.291	16.291	(1.229)	85799	48.4262	48.426

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: finn5.i
Lab File ID: LCS0421.d
Lab Smp Id: LCS0421
Analysis Type: VOA
Quant Type: ISTD
Operator: PB
Method File: /chem1/finn5.i/21APR11.b/s8260b.m
Misc Info: 11-8725

Calibration Date: 21-APR-2011
Calibration Time: 08:45
Client Smp ID: LCS0421
Level: LOW
Sample Type: SOIL

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
23 Pentafluorobenzen	91022	45511	182044	94858	4.21
34 1,4-Difluorobenze	153104	76552	306208	161101	5.22
52 d5-Chlorobenzene	143720	71860	287440	155234	8.01
76 d4-1,4-Dichlorobe	77398	38699	154796	83116	7.39

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	6.43	5.93	6.93	6.42	-0.16
34 1,4-Difluorobenze	7.44	6.94	7.94	7.43	-0.14
52 d5-Chlorobenzene	10.57	10.07	11.07	10.57	0.00
76 d4-1,4-Dichlorobe	13.26	12.76	13.76	13.26	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: SOLID
Lab Smp Id: LCS0421
Level: LOW
Data Type: MS DATA
SpikeList File: all.spk
Sublist File: voa.sub
Method File: /chem1/finn5.i/21APR11.b/s8260b.m
Misc Info: 11-8725

Client SDG: 21APR11
Fraction: VOA
Client Smp ID: LCS0421
Operator: PB
SampleType: LCS
Quant Type: ISTD

SPIKE	COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
1	Dichlorodifluorome	50.000	34.157	68.31	53-148
2	Chloromethane	50.000	42.773	85.55	64-125
3	Vinyl Chloride	50.000	46.661	93.32	63-137
4	Bromomethane	50.000	48.939	97.88	57-136
5	Chloroethane	50.000	52.216	104.43	64-131
6	Trichlorofluoromet	50.000	54.227	108.45	69-132
7	Acrolein	250.00	242.57	97.03	54-137
8	112Trichloro122Tri	50.000	52.656	105.31	74-130
9	Acetone	250.00	254.26	101.70	60-131
10	1,1-Dichloroethene	50.000	53.183	106.37	75-126
11	Bromoethane	50.000	54.952	109.90	76-126
12	Iodomethane	50.000	56.322	112.64	65-139
13	Methylene Chloride	50.000	51.901	103.80	70-123
15	Carbon Disulfide	50.000	50.038	100.08	71-129
14	Acrylonitrile	50.000	50.808	101.62	67-125
16	Methyl tert-Butyl	50.000	57.374	114.75	70-120
17	Trans-1,2-Dichloro	50.000	52.655	105.31	80-120
18	Vinyl Acetate	50.000	52.221	104.44	60-136
19	1,1-Dichloroethane	50.000	53.422	106.84	80-120
20	2-Butanone	250.00	261.61	104.65	70-120
21	2,2-Dichloropropan	50.000	58.871	117.74	74-123
22	Cis-1,2-Dichloroet	50.000	53.187	106.37	80-120
24	Chloroform	50.000	53.968	107.94	80-120
26	Bromochloromethane	50.000	55.164	110.33	80-120
27	1,1,1-Trichloroeth	50.000	60.046	120.09	77-121
29	1,1-Dichloropropen	50.000	51.248	102.50	80-120
30	Carbon Tetrachlori	50.000	56.836	113.67	77-122
32	1,2-Dichloroethane	50.000	53.872	107.74	76-120
33	Benzene	50.000	53.579	107.16	80-120
35	Trichloroethene	50.000	54.347	108.69	80-120
36	1,2-Dichloropropan	50.000	51.258	102.52	80-120
37	Bromodichlorometha	50.000	54.321	108.64	77-121
39	Dibromomethane	50.000	53.481	106.96	80-120

SPIKE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
40 2-Chloroethyl Viny	50.000	73.741	147.48	10-191
41 4-Methyl-2-Pentano	250.00	265.36	106.15	67-120
42 Cis 1,3-dichloropr	50.000	55.062	110.12	74-120
44 Toluene	50.000	54.040	108.08	80-120
45 Trans 1,3-Dichloro	50.000	56.512	113.02	65-120
46 2-Hexanone	250.00	257.81	103.12	65-130
47 1,1,2-Trichloroeth	50.000	53.965	107.93	80-120
48 1,3-Dichloropropan	50.000	54.866	109.73	80-120
49 Tetrachloroethene	50.000	54.951	109.90	80-121
50 Chlorodibromometha	50.000	55.383	110.77	64-120
51 1,2-Dibromoethane	50.000	55.855	111.71	75-120
53 Chlorobenzene	50.000	54.688	109.38	80-120
55 1,1,1,2-Tetrachlor	50.000	55.323	110.65	69-121
54 Ethyl Benzene	50.000	56.258	112.52	80-127
56 m,p-xylene	100.00	111.86	111.86	80-125
57 o-Xylene	50.000	54.331	108.66	78-120
58 Styrene	50.000	54.906	109.81	80-123
59 Isopropyl Benzene	50.000	58.200	116.40	80-127
60 Bromoform	50.000	55.296	110.59	60-120
61 1,1,2,2-Tetrachlor	50.000	53.391	106.78	74-120
63 1,2,3-Trichloropro	50.000	56.877	113.75	72-121
65 Trans-1,4-Dichloro	50.000	53.753	107.51	65-126
66 N-Propyl Benzene	50.000	58.500	117.00	80-132
67 Bromobenzene	50.000	54.071	108.14	80-120
68 1,3,5-Trimethyl Be	50.000	56.439	112.88	80-125
69 2-Chloro Toluene	50.000	56.314	112.63	80-125
70 4-Chloro Toluene	50.000	52.431	104.86	80-127
71 T-Butyl Benzene	50.000	56.170	112.34	87-122
72 1,2,4-Trimethylben	50.000	56.227	112.45	80-126
73 S-Butyl Benzene	50.000	58.006	116.01	80-134
74 4-Isopropyl Toluen	50.000	57.681	115.36	80-131
75 1,3-Dichlorobenzen	50.000	54.996	109.99	80-120
77 1,4-Dichlorobenzen	50.000	53.967	107.93	80-120
78 N-Butyl Benzene	50.000	56.555	113.11	80-138
80 1,2-Dichlorobenzen	50.000	53.806	107.61	80-120
81 1,2-Dibromo 3-Chlo	50.000	49.430	98.86	59-120
82 1,2,4-Trichloroben	50.000	51.243	102.49	78-130
83 Hexachloro 1,3-But	50.000	48.199	96.40	76-129
84 Naphthalene	50.000	50.276	100.55	66-120
85 1,2,3-Trichloroben	50.000	48.426	96.85	73-123

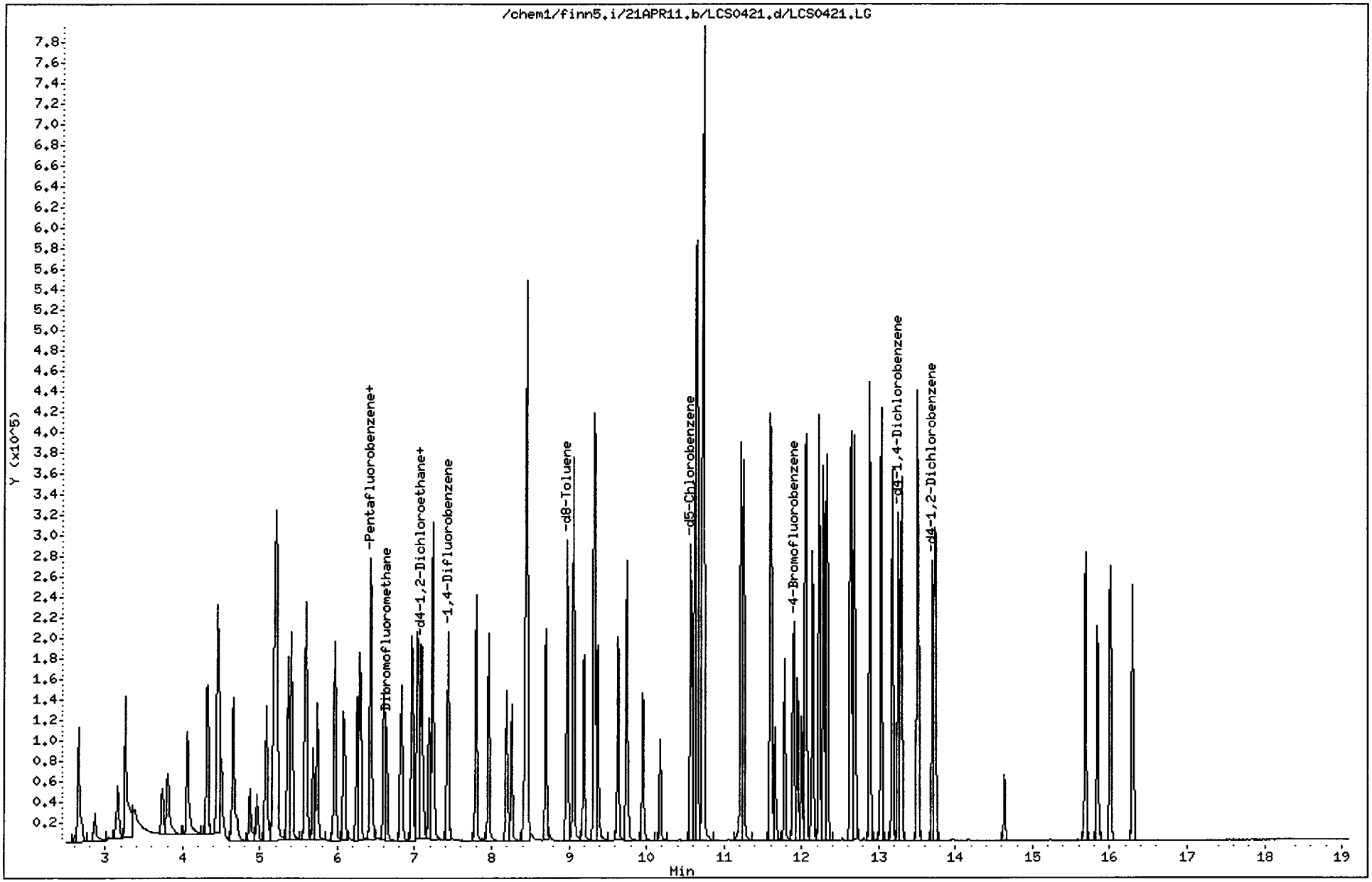
SURROGATE COMPOUND	AMOUNT ADDED ug/Kg	AMOUNT RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 25 Dibromofluorometha	50.000	53.162	106.32	30-160

SURROGATE COMPOUND	AMOUNT ADDED ug/Kg	AMOUNT RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 31 d4-1,2-Dichloroeth	50.000	53.083	106.17	75-152
$ 43 d8-Toluene	50.000	48.394	96.79	82-115
$ 62 4-Bromofluorobenze	50.000	48.369	96.74	64-120
$ 79 d4-1,2-Dichloroben	50.000	50.804	101.61	80-120

Data File: /chem1/finn5.i/21APR11.b/LCS0421.d
Date : 21-APR-2011 09:27
Client ID: LCS0421
Sample Info: LCS0421,5,5,0

Instrument: finn5.i
Operator: PB
Column diameter: 0.18

Column phase: Rtx502.2



CO-ELUTION SUMMARY FOR FILE - LCS0421.d

Lab ID: LCS0421, Method: s8260b.m, Instrument: finn5.i, Date: 21-APR-2011

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Analytical Resources, Inc.

8260C

Data file : /chem1/finn5.i/21APR11.b/LCS0421A.d
Lab Smp Id: LCS0421 Client Smp ID: LCS0421
Inj Date : 21-APR-2011 09:55
Operator : PB Inst ID: finn5.i
Smp Info : LCS0421,5,5,0
Misc Info : 11-8725
Comment :
Method : /chem1/finn5.i/21APR11.b/s8260b.m
Meth Date : 25-Apr-2011 16:10 patrickb Quant Type: ISTD
Cal Date : 09-MAR-2011 13:53 Cal File: 2000309.d
Als bottle: 1 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	5.00000	Sample Amount
M	0.00000	Moisture (%)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
1 Dichlorodifluoromethane	85	2.884	2.874	(0.448)	33171	36.8641	36.864
2 Chloromethane	50	3.176	3.156	(0.493)	69840	44.4957	44.496
3 Vinyl Chloride	62	3.276	3.266	(0.509)	95818	49.0417	49.042(Q)
4 Bromomethane	94	3.759	3.739	(0.583)	36402	53.7192	53.719
5 Chloroethane	64	3.819	3.809	(0.593)	74809	57.4789	57.479
6 Trichlorofluoromethane	101	4.080	4.070	(0.633)	104214	58.8467	58.847
7 Acrolein	56	4.462	4.452	(0.693)	74813	273.601	273.60
8 112Trichloro122Trifluoroethane	101	4.472	4.462	(0.694)	81693	57.9565	57.956
9 Acetone	43	4.512	4.502	(0.700)	125416	309.747	309.75
10 1,1-Dichloroethene	96	4.663	4.653	(0.724)	55617	56.7017	56.702
11 Bromoethane	108	4.884	4.864	(0.758)	45232	58.7114	58.711
12 Iodomethane	142	4.975	4.965	(0.772)	53822	58.7130	58.713
13 Methylene Chloride	84	5.095	5.085	(0.791)	64866	55.3446	55.345
14 Acrylonitrile	53	5.186	5.166	(0.805)	26035	57.6515	57.652(Q)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
	16 Methyl tert-Butyl Ether	73	5.226	5.206	(0.811)	297494	61.7374	61.737(QR)
	15 Carbon Disulfide	76	5.196	5.176	(0.807)	201432	54.2984	54.298
	17 Trans-1,2-Dichloroethene	96	5.377	5.367	(0.835)	64011	56.6103	56.610
	18 Vinyl Acetate	43	5.698	5.688	(0.885)	132070	60.0673	60.067
	19 1,1-Dichloroethane	63	5.759	5.739	(0.894)	114421	55.6847	55.685
	20 2-Butanone	43	6.100	6.090	(0.947)	178669	305.596	305.60(R)
	21 2,2-Dichloropropane	77	6.271	6.261	(0.973)	87832	64.1493	64.149(R)
	22 Cis-1,2-Dichloroethene	96	6.311	6.301	(0.980)	68734	57.3130	57.313(Q)
*	23 Pentafluorobenzene	168	6.442	6.432	(1.000)	88745	50.0000	
	24 Chloroform	83	6.452	6.442	(1.002)	109398	57.2251	57.225
	26 Bromochloromethane	128	6.613	6.603	(1.027)	36831	58.6911	58.691
$	25 Dibromofluoromethane	111	6.653	6.643	(1.033)	55592	52.6996	52.700(Q)
	27 1,1,1-Trichloroethane	97	6.844	6.824	(1.062)	94074	63.9093	63.909(R)
	29 1,1-Dichloropropene	75	6.985	6.975	(0.938)	89942	56.9189	56.919
	30 Carbon Tetrachloride	117	7.095	7.085	(0.953)	88487	61.5405	61.540(R)
$	31 d4-1,2-Dichloroethane	65	7.115	7.105	(1.105)	51791	53.0031	53.003
	32 1,2-Dichloroethane	62	7.206	7.186	(0.968)	76108	58.3762	58.376
	33 Benzene	78	7.246	7.236	(0.973)	240767	58.3696	58.370
*	34 1,4-Difluorobenzene	114	7.447	7.437	(1.000)	146764	50.0000	
	35 Trichloroethene	95	7.809	7.799	(1.049)	70648	58.3886	58.389
	36 1,2-Dichloropropane	63	7.980	7.960	(1.072)	72918	56.2726	56.272
	37 Bromodichloromethane	83	8.211	8.201	(1.103)	85768	58.4096	58.410
	39 Dibromomethane	93	8.281	8.261	(1.112)	43194	56.2404	56.240
	40 2-Chloroethyl Vinyl Ether	63	8.432	8.422	(1.132)	22991	82.3633	82.363(Q)
	41 4-Methyl-2-Pentanone	58	8.472	8.452	(1.138)	141191	299.961	299.96
	42 Cis 1,3-dichloropropene	75	8.713	8.703	(1.170)	105111	60.8294	60.829(R)
$	43 d8-Toluene	98	8.995	8.975	(1.208)	159992	48.2234	48.223
	44 Toluene	92	9.075	9.065	(1.219)	153529	58.3727	58.373
	45 Trans 1,3-Dichloropropene	75	9.206	9.196	(1.236)	88814	60.7723	60.772(R)
	46 2-Hexanone	43	9.346	9.336	(0.882)	293781	291.520	291.52
	47 1,1,2-Trichloroethane	97	9.387	9.377	(1.260)	57739	59.3034	59.303
	48 1,3-Dichloropropane	76	9.648	9.638	(0.911)	105502	58.1104	58.110
	49 Tetrachloroethene	166	9.759	9.748	(0.921)	79313	60.2365	60.236
	50 Chlorodibromomethane	129	9.970	9.960	(0.941)	75755	58.4979	58.498
	51 1,2-Dibromoethane	107	10.191	10.181	(1.368)	67343	59.7168	59.717
*	52 d5-Chlorobenzene	117	10.593	10.573	(1.000)	142730	50.0000	
	53 Chlorobenzene	112	10.633	10.623	(1.004)	173171	58.6767	58.677
	54 Ethyl Benzene	91	10.663	10.653	(1.007)	274486	60.5728	60.573
	55 1,1,1,2-Tetrachloroethane	131	10.663	10.643	(1.007)	64185	58.5695	58.569
	56 m,p-xylene	106	10.743	10.733	(1.014)	223703	121.635	121.64
	57 o-Xylene	106	11.236	11.226	(1.061)	111685	58.4488	58.449
	58 Styrene	104	11.266	11.256	(1.064)	179959	59.0058	59.006
	59 Isopropyl Benzene	105	11.618	11.608	(0.876)	285916	62.3899	62.390
	60 Bromoform	173	11.668	11.658	(0.880)	52849	58.0164	58.016
	61 1,1,2,2-Tetrachloroethane	83	11.799	11.779	(0.889)	88955	56.9784	56.978
$	62 4-Bromofluorobenzene	95	11.909	11.899	(1.124)	71318	48.6792	48.679
	63 1,2,3-Trichloropropane	110	11.970	11.949	(0.902)	23232	61.6914	61.691(R)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
	65 Trans-1,4-Dichloro 2-Butene	53	12.020	12.010	(0.906)	22803	56.0898	56.090
	66 N-Propyl Benzene	91	12.070	12.060	(0.910)	325640	63.8893	63.889
	67 Bromobenzene	156	12.160	12.140	(0.917)	82041	57.7571	57.757
	68 1,3,5-Trimethyl Benzene	105	12.241	12.231	(0.923)	223051	61.0556	61.056
	69 2-Chloro Toluene	91	12.301	12.281	(0.927)	204555	58.0381	58.038
	70 4-Chloro Toluene	91	12.341	12.331	(0.930)	213071	58.5826	58.582
	71 T-Butyl Benzene	119	12.653	12.643	(0.954)	206436	58.8761	58.876
	72 1,2,4-Trimethylbenzene	105	12.703	12.693	(0.958)	222016	60.5441	60.544
	73 S-Butyl Benzene	105	12.894	12.884	(0.972)	307421	62.8863	62.886
	74 4-Isopropyl Toluene	119	13.045	13.035	(0.983)	240006	62.6407	62.641
	75 1,3-Dichlorobenzene	146	13.186	13.176	(0.994)	148176	59.4553	59.455
*	76 d4-1,4-Dichlorobenzene	152	13.266	13.256	(1.000)	77088	50.0000	
	77 1,4-Dichlorobenzene	146	13.306	13.296	(1.003)	145890	58.8010	58.801
	78 N-Butyl Benzene	91	13.527	13.507	(1.020)	237137	62.7525	62.752
$	79 d4-1,2-Dichlorobenzene	152	13.718	13.698	(1.034)	70398	51.4209	51.421
	80 1,2-Dichlorobenzene	146	13.748	13.738	(1.036)	135952	58.2033	58.203
	81 1,2-Dibromo 3-Chloropropane	75	14.653	14.643	(1.105)	14945	53.4602	53.460
	82 1,2,4-Trichlorobenzene	180	15.698	15.688	(1.183)	95217	57.1260	57.126
	83 Hexachloro 1,3-Butadiene	225	15.859	15.839	(1.195)	50463	52.6941	52.694
	84 Naphthalene	128	16.020	16.010	(1.208)	202044	54.9827	54.983
	85 1,2,3-Trichlorobenzene	180	16.311	16.291	(1.230)	87014	52.9524	52.952

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: finn5.i
Lab File ID: LCS0421A.d
Lab Smp Id: LCS0421
Analysis Type: VOA
Quant Type: ISTD
Operator: PB
Method File: /chem1/finn5.i/21APR11.b/s8260b.m
Misc Info: 11-8725

Calibration Date: 21-APR-2011
Calibration Time: 08:45
Client Smp ID: LCS0421
Level: LOW
Sample Type: SOIL

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
23 Pentafluorobenzen	91022	45511	182044	88745	-2.50
34 1,4-Difluorobenze	153104	76552	306208	146764	-4.14
52 d5-Chlorobenzene	143720	71860	287440	142730	-0.69
76 d4-1,4-Dichlorobe	77398	38699	154796	77088	-0.40

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	6.43	5.93	6.93	6.44	0.16
34 1,4-Difluorobenze	7.44	6.94	7.94	7.45	0.14
52 d5-Chlorobenzene	10.57	10.07	11.07	10.59	0.19
76 d4-1,4-Dichlorobe	13.26	12.76	13.76	13.27	0.08

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: 21APR11
Sample Matrix: SOLID
Fraction: VOA
Lab Smp Id: LCS0421
Client Smp ID: LCS0421
Level: LOW
Operator: PB
Data Type: MS DATA
SampleType: LCSD
SpikeList File: all.spk
Quant Type: ISTD
Sublist File: voa.sub
Method File: /chem1/finn5.i/21APR11.b/s8260b.m
Misc Info: 11-8725

SPIKE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
1 Dichlorodifluorome	50.000	36.864	73.73	53-148
2 Chloromethane	50.000	44.496	88.99	64-125
3 Vinyl Chloride	50.000	49.042	98.08	63-137
4 Bromomethane	50.000	53.719	107.44	57-136
5 Chloroethane	50.000	57.479	114.96	64-131
6 Trichlorofluoromet	50.000	58.847	117.69	69-132
7 Acrolein	250.00	273.60	109.44	54-137
8 112Trichloro122Tri	50.000	57.956	115.91	74-130
9 Acetone	250.00	309.75	123.90	60-131
10 1,1-Dichloroethene	50.000	56.702	113.40	75-126
11 Bromoethane	50.000	58.711	117.42	76-126
12 Iodomethane	50.000	58.713	117.43	65-139
13 Methylene Chloride	50.000	55.345	110.69	70-123
15 Carbon Disulfide	50.000	54.298	108.60	71-129
14 Acrylonitrile	50.000	57.652	115.30	67-125
16 Methyl tert-Butyl	50.000	61.737	123.47*	70-120
17 Trans-1,2-Dichloro	50.000	56.610	113.22	80-120
18 Vinyl Acetate	50.000	60.067	120.13	60-136
19 1,1-Dichloroethane	50.000	55.685	111.37	80-120
20 2-Butanone	250.00	305.60	122.24*	70-120
21 2,2-Dichloropropan	50.000	64.149	128.30*	74-123
22 Cis-1,2-Dichloroet	50.000	57.313	114.63	80-120
24 Chloroform	50.000	57.225	114.45	80-120
26 Bromochloromethane	50.000	58.691	117.38	80-120
27 1,1,1-Trichloroeth	50.000	63.909	127.82*	77-121
29 1,1-Dichloropropen	50.000	56.919	113.84	80-120
30 Carbon Tetrachlori	50.000	61.540	123.08*	77-122
32 1,2-Dichloroethane	50.000	58.376	116.75	76-120
33 Benzene	50.000	58.370	116.74	80-120
35 Trichloroethene	50.000	58.389	116.78	80-120
36 1,2-Dichloropropan	50.000	56.272	112.55	80-120
37 Bromodichlorometha	50.000	58.410	116.82	77-121
39 Dibromomethane	50.000	56.240	112.48	80-120

SPIKE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
40 2-Chloroethyl Viny	50.000	82.363	164.73	10-191
41 4-Methyl-2-Pentano	250.00	299.96	119.98	67-120
42 Cis 1,3-dichloropr	50.000	60.829	121.66*	74-120
44 Toluene	50.000	58.373	116.75	80-120
45 Trans 1,3-Dichloro	50.000	60.772	121.54*	65-120
46 2-Hexanone	250.00	291.52	116.61	65-130
47 1,1,2-Trichloroeth	50.000	59.303	118.61	80-120
48 1,3-Dichloropropan	50.000	58.110	116.22	80-120
49 Tetrachloroethene	50.000	60.236	120.47	80-121
50 Chlorodibromometha	50.000	58.498	117.00	64-120
51 1,2-Dibromoethane	50.000	59.717	119.43	75-120
53 Chlorobenzene	50.000	58.677	117.35	80-120
55 1,1,1,2-Tetrachlor	50.000	58.569	117.14	69-121
54 Ethyl Benzene	50.000	60.573	121.15	80-127
56 m,p-xylene	100.00	121.64	121.64	80-125
57 o-Xylene	50.000	58.449	116.90	78-120
58 Styrene	50.000	59.006	118.01	80-123
59 Isopropyl Benzene	50.000	62.390	124.78	80-127
60 Bromoform	50.000	58.016	116.03	60-120
61 1,1,2,2-Tetrachlor	50.000	56.978	113.96	74-120
63 1,2,3-Trichloropro	50.000	61.691	123.38*	72-121
65 Trans-1,4-Dichloro	50.000	56.090	112.18	65-126
66 N-Propyl Benzene	50.000	63.889	127.78	80-132
67 Bromobenzene	50.000	57.757	115.51	80-120
68 1,3,5-Trimethyl Be	50.000	61.056	122.11	80-125
69 2-Chloro Toluene	50.000	58.038	116.08	80-125
70 4-Chloro Toluene	50.000	58.582	117.17	80-127
71 T-Butyl Benzene	50.000	58.876	117.75	87-122
72 1,2,4-Trimethylben	50.000	60.544	121.09	80-126
73 S-Butyl Benzene	50.000	62.886	125.77	80-134
74 4-Isopropyl Toluen	50.000	62.641	125.28	80-131
75 1,3-Dichlorobenzen	50.000	59.455	118.91	80-120
77 1,4-Dichlorobenzen	50.000	58.801	117.60	80-120
78 N-Butyl Benzene	50.000	62.752	125.51	80-138
80 1,2-Dichlorobenzen	50.000	58.203	116.41	80-120
81 1,2-Dibromo 3-Chlo	50.000	53.460	106.92	59-120
82 1,2,4-Trichloroben	50.000	57.126	114.25	78-130
83 Hexachloro 1,3-But	50.000	52.694	105.39	76-129
84 Naphthalene	50.000	54.983	109.97	66-120
85 1,2,3-Trichloroben	50.000	52.952	105.90	73-123

SURROGATE COMPOUND	AMOUNT ADDED ug/Kg	AMOUNT RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 25 Dibromofluorometha	50.000	52.700	105.40	30-160

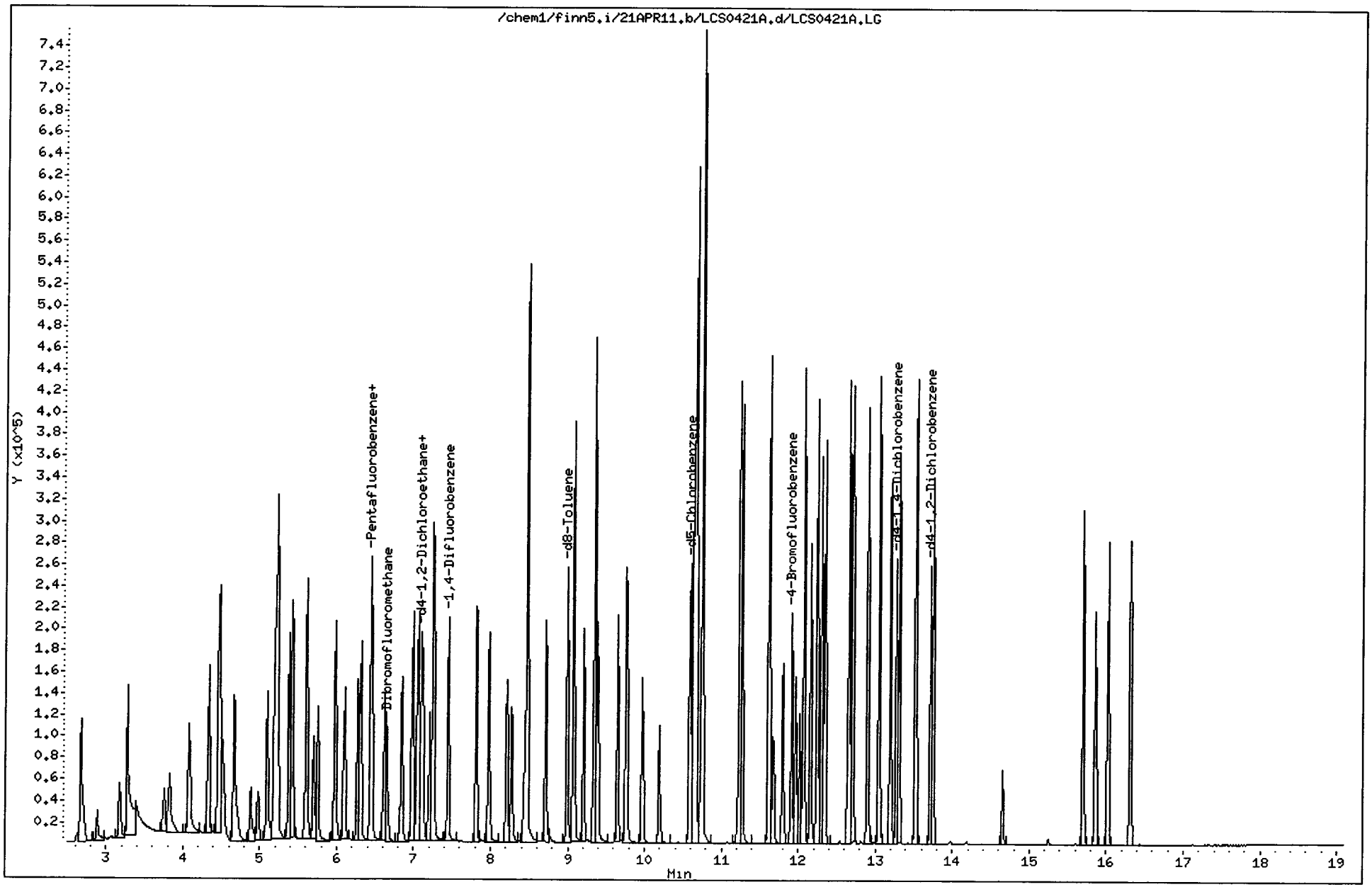
SURROGATE COMPOUND	AMOUNT ADDED ug/Kg	AMOUNT RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 31 d4-1,2-Dichloroeth	50.000	53.003	106.01	75-152
$ 43 d8-Toluene	50.000	48.223	96.45	82-115
$ 62 4-Bromofluorobenze	50.000	48.679	97.36	64-120
$ 79 d4-1,2-Dichloroben	50.000	51.421	102.84	80-120

Data File: /chem1/finn5.i/21APR11.b/LCS0421A.d
Date : 21-APR-2011 09:55
Client ID: LCS0421
Sample Info: LCS0421,5,5,0

Column phase: Rtx502.2

Instrument: finn5.i

Operator: PB
Column diameter: 0.18



CO-ELUTION SUMMARY FOR FILE - LCS0421A.d

Lab ID: LCS0421, Method: s8260b.m, Instrument: finn5.i, Date: 21-APR-2011

RT	CO-ELUTION COMPOUNDS
10.663	1,1,1,2-Tetrachloroethane and Ethyl Benzene

Analytical Resources, Inc.

8260C

Data file : /chem1/finn5.i/21APR11.b/MB0421.d
Lab Smp Id: MB0421 Client Smp ID: MB0421
Inj Date : 21-APR-2011 10:23
Operator : PB Inst ID: finn5.i
Smp Info : MB0421,5,5,0
Misc Info : 11-8725
Comment :
Method : /chem1/finn5.i/21APR11.b/s8260b.m
Meth Date : 25-Apr-2011 16:10 patrickb Quant Type: ISTD
Cal Date : 09-MAR-2011 13:53 Cal File: 2000309.d
Als bottle: 1 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	5.00000	Sample Amount
M	0.00000	Moisture (%)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
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.					
7 Acrolein	56	Compound Not Detected.					
8 112Trichloro122Trifluoroethane	101	Compound Not Detected.					
9 Acetone	43	4.512	4.502	(0.702)	1198	4.05035	4.050
10 1,1-Dichloroethene	96	Compound Not Detected.					
11 Bromoethane	108	Compound Not Detected.					
12 Iodomethane	142	Compound Not Detected.					
13 Methylene Chloride	84	Compound Not Detected.					
14 Acrylonitrile	53	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
	16 Methyl tert-Butyl Ether	73	Compound Not Detected.					
	15 Carbon Disulfide	76	Compound Not Detected.					
	17 Trans-1,2-Dichloroethene	96	Compound Not Detected.					
	18 Vinyl Acetate	43	Compound Not Detected.					
	19 1,1-Dichloroethane	63	Compound Not Detected.					
	20 2-Butanone	43	Compound Not Detected.					
	21 2,2-Dichloropropane	77	Compound Not Detected.					
	22 Cis-1,2-Dichloroethene	96	Compound Not Detected.					
*	23 Pentafluorobenzene	168	6.432	6.432	(1.000)	64828	50.0000	
	24 Chloroform	83	Compound Not Detected.					
	26 Bromochloromethane	128	Compound Not Detected.					
$	25 Dibromofluoromethane	111	6.643	6.643	(1.033)	43068	55.8896	55.890(Q)
	27 1,1,1-Trichloroethane	97	Compound Not Detected.					
	29 1,1-Dichloropropene	75	Compound Not Detected.					
	30 Carbon Tetrachloride	117	Compound Not Detected.					
$	31 d4-1,2-Dichloroethane	65	7.105	7.105	(1.105)	42521	59.5706	59.570
	32 1,2-Dichloroethane	62	Compound Not Detected.					
	33 Benzene	78	Compound Not Detected.					
*	34 1,4-Difluorobenzene	114	7.437	7.437	(1.000)	111942	50.0000	
	35 Trichloroethene	95	Compound Not Detected.					
	36 1,2-Dichloropropane	63	Compound Not Detected.					
	37 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	8.462	8.452	(1.138)	1039	2.89400	2.894
	42 Cis 1,3-dichloropropene	75	Compound Not Detected.					
$	43 d8-Toluene	98	8.975	8.975	(1.207)	122414	48.3746	48.374
	44 Toluene	92	Compound Not Detected.					
	45 Trans 1,3-Dichloropropene	75	Compound Not Detected.					
	46 2-Hexanone	43	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	10.573	10.573	(1.000)	109630	50.0000	
	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.					
	59 Isopropyl Benzene	105	Compound Not Detected.					
	60 Bromoform	173	Compound Not Detected.					
	61 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
$	62 4-Bromofluorobenzene	95	11.899	11.899	(1.125)	53190	47.2673	47.267
	63 1,2,3-Trichloropropane	110	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
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.					
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	13.186	13.176	(0.995)	1095	0.59978	0.5998
* 76	d4-1,4-Dichlorobenzene	152	13.256	13.256	(1.000)	56470	50.0000	
77	1,4-Dichlorobenzene	146	13.296	13.296	(1.003)	1090	0.59973	0.5997(Q)
78	N-Butyl Benzene	91	13.507	13.507	(1.019)	1744	0.63001	0.6300
$ 79	d4-1,2-Dichlorobenzene	152	13.698	13.698	(1.033)	50281	50.1363	50.136
80	1,2-Dichlorobenzene	146	13.738	13.738	(1.036)	1251	0.73112	0.7311
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	16.010	16.010	(1.208)	6735	2.50199	2.502
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: finn5.i
Lab File ID: MB0421.d
Lab Smp Id: MB0421
Analysis Type: VOA
Quant Type: ISTD
Operator: PB
Method File: /chem1/finn5.i/21APR11.b/s8260b.m
Misc Info: 11-8725

Calibration Date: 21-APR-2011
Calibration Time: 08:45
Client Smp ID: MB0421
Level: LOW
Sample Type: SOIL

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
23 Pentafluorobenzen	91022	45511	182044	64828	-28.78
34 1,4-Difluorobenze	153104	76552	306208	111942	-26.88
52 d5-Chlorobenzene	143720	71860	287440	109630	-23.72
76 d4-1,4-Dichlorobe	77398	38699	154796	56470	-27.04

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	6.43	5.93	6.93	6.43	0.00
34 1,4-Difluorobenze	7.44	6.94	7.94	7.44	0.00
52 d5-Chlorobenzene	10.57	10.07	11.07	10.57	0.00
76 d4-1,4-Dichlorobe	13.26	12.76	13.76	13.26	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: SOLID
Lab Smp Id: MB0421
Level: LOW
Data Type: MS DATA
SpikeList File: all.spk
Sublist File: voa.sub
Method File: /chem1/finn5.i/21APR11.b/s8260b.m
Misc Info: 11-8725

Client SDG: 21APR11
Fraction: VOA
Client Smp ID: MB0421
Operator: PB
SampleType: BLANK
Quant Type: ISTD

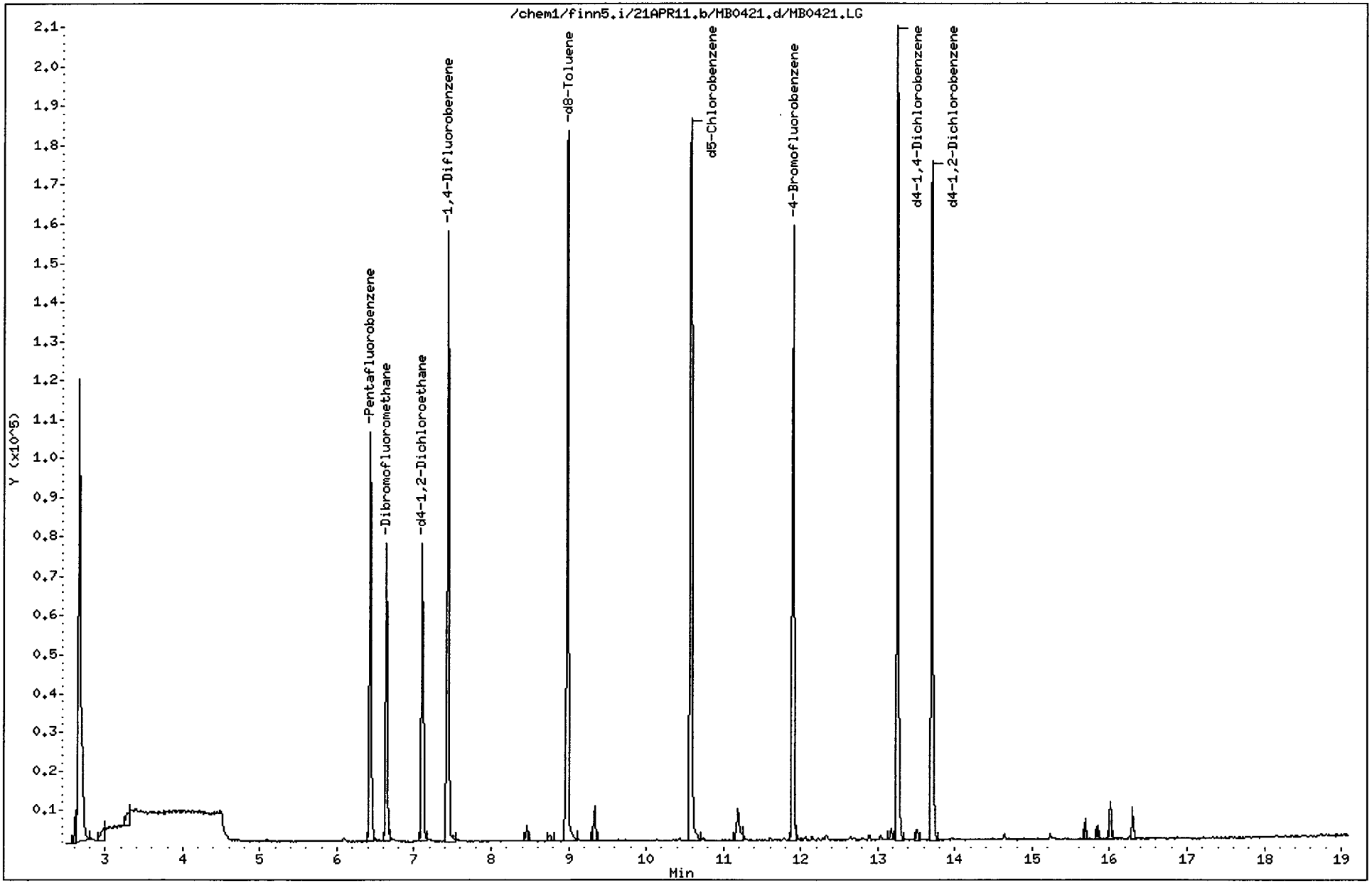
SURROGATE COMPOUND	AMOUNT ADDED ug/Kg	AMOUNT RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 25 Dibromofluorometha	50.000	55.890	111.78	30-160
$ 31 d4-1,2-Dichloroeth	50.000	59.570	119.14	75-152
$ 43 d8-Toluene	50.000	48.374	96.75	82-115
$ 62 4-Bromofluorobenze	50.000	47.267	94.53	64-120
$ 79 d4-1,2-Dichloroben	50.000	50.136	100.27	80-120

Data File: /chem1/finn5.i/21APR11.b/MB0421.d
Date : 21-APR-2011 10:23
Client ID: MB0421
Sample Info: MB0421,5,5,0

Instrument: finn5.i

Operator: PB
Column diameter: 0.18

Column phase: Rtx502.2



CO-ELUTION SUMMARY FOR FILE - MB0421.d

Lab ID: MB0421, Method: s8260b.m, Instrument: finn5.i, Date: 21-APR-2011

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Analytical Resources, Inc.

8260C

Data file : /chem1/finn5.i/21APR11.b/SS83A.d
Lab Smp Id: SS83A Client Smp ID: DMA-TP1-0-3-041911
Inj Date : 21-APR-2011 11:04
Operator : PB Inst ID: finn5.i
Smp Info : SS83A,5,9.773,0
Misc Info : 11-8711
Comment :
Method : /chem1/finn5.i/21APR11.b/s8260b.m
Meth Date : 25-Apr-2011 16:10 patrickb Quant Type: ISTD
Cal Date : 09-MAR-2011 13:53 Cal File: 2000309.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	9.77300	Sample Amount
M	0.00000	Moisture (%)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
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.					
7 Acrolein	56	Compound Not Detected.					
8 112Trichloro122Trifluoroethane	101	Compound Not Detected.					
9 Acetone	43	4.492	4.502	(0.700)	41842	107.144	54.816(Q)
10 1,1-Dichloroethene	96	Compound Not Detected.					
11 Bromoethane	108	Compound Not Detected.					
12 Iodomethane	142	Compound Not Detected.					
13 Methylene Chloride	84	5.075	5.085	(0.790)	9744	8.61978	4.410
14 Acrylonitrile	53	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
	16 Methyl tert-Butyl Ether	73	Compound Not Detected.					
	15 Carbon Disulfide	76	5.176	5.176	(0.806)	1617	0.45193	0.2312
	17 Trans-1,2-Dichloroethene	96	Compound Not Detected.					
	18 Vinyl Acetate	43	Compound Not Detected.					
	19 1,1-Dichloroethane	63	Compound Not Detected.					
	20 2-Butanone	43	6.080	6.090	(0.947)	4482	7.94823	4.066
	21 2,2-Dichloropropane	77	Compound Not Detected.					
	22 Cis-1,2-Dichloroethene	96	Compound Not Detected.					
*	23 Pentafluorobenzene	168	6.422	6.432	(1.000)	85594	50.0000	
	24 Chloroform	83	Compound Not Detected.					
	26 Bromochloromethane	128	Compound Not Detected.					
$	25 Dibromofluoromethane	111	6.633	6.643	(1.033)	58392	57.3917	29.362(Q)
	27 1,1,1-Trichloroethane	97	Compound Not Detected.					
	29 1,1-Dichloropropene	75	Compound Not Detected.					
	30 Carbon Tetrachloride	117	Compound Not Detected.					
$	31 d4-1,2-Dichloroethane	65	7.095	7.105	(1.105)	56716	60.1802	30.789
	32 1,2-Dichloroethane	62	Compound Not Detected.					
	33 Benzene	78	Compound Not Detected.					
*	34 1,4-Difluorobenzene	114	7.427	7.437	(1.000)	147703	50.0000	
	35 Trichloroethene	95	Compound Not Detected.					
	36 1,2-Dichloropropane	63	Compound Not Detected.					
	37 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	8.975	8.975	(1.208)	155026	46.4295	23.754
	44 Toluene	92	9.055	9.065	(1.219)	1351	0.51039	0.2611
	45 Trans 1,3-Dichloropropene	75	Compound Not Detected.					
	46 2-Hexanone	43	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	10.573	10.573	(1.000)	132603	50.0000	
	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.					
	59 Isopropyl Benzene	105	Compound Not Detected.					
	60 Bromoform	173	Compound Not Detected.					
	61 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
$	62 4-Bromofluorobenzene	95	11.889	11.899	(1.125)	58200	42.7592	21.876
	63 1,2,3-Trichloropropane	110	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
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.					
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	13.025	13.035	(0.983)	4331	1.60647	0.8219
75	1,3-Dichlorobenzene	146	Compound Not Detected.					
* 76	d4-1,4-Dichlorobenzene	152	13.256	13.256	(1.000)	54242	50.0000	
77	1,4-Dichlorobenzene	146	Compound Not Detected.					
78	N-Butyl Benzene	91	Compound Not Detected.					
$ 79	d4-1,2-Dichlorobenzene	152	13.698	13.698	(1.033)	48718	50.5731	25.874
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: finn5.i
Lab File ID: SS83A.d
Lab Smp Id: SS83A
Analysis Type: VOA
Quant Type: ISTD
Operator: PB
Method File: /chem1/finn5.i/21APR11.b/s8260b.m
Misc Info: 11-8711

Calibration Date: 21-APR-2011
Calibration Time: 08:45
Client Smp ID: DMA-TP1-0-3-041911
Level: LOW
Sample Type: Soil

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
23 Pentafluorobenzen	91022	45511	182044	85594	-5.96
34 1,4-Difluorobenze	153104	76552	306208	147703	-3.53
52 d5-Chlorobenzene	143720	71860	287440	132603	-7.74
76 d4-1,4-Dichlorobe	77398	38699	154796	54242	-29.92

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	6.43	5.93	6.93	6.42	-0.16
34 1,4-Difluorobenze	7.44	6.94	7.94	7.43	-0.14
52 d5-Chlorobenzene	10.57	10.07	11.07	10.57	0.00
76 d4-1,4-Dichlorobe	13.26	12.76	13.76	13.26	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: SOLID
Lab Smp Id: SS83A
Level: LOW
Data Type: MS DATA
SpikeList File: all.spk
Sublist File: voa.sub
Method File: /chem1/finn5.i/21APR11.b/s8260b.m
Misc Info: 11-8711

Client SDG: SS83
Fraction: VOA
Client Smp ID: DMA-TP1-0-3-041911
Operator: PB
SampleType: SAMPLE
Quant Type: ISTD

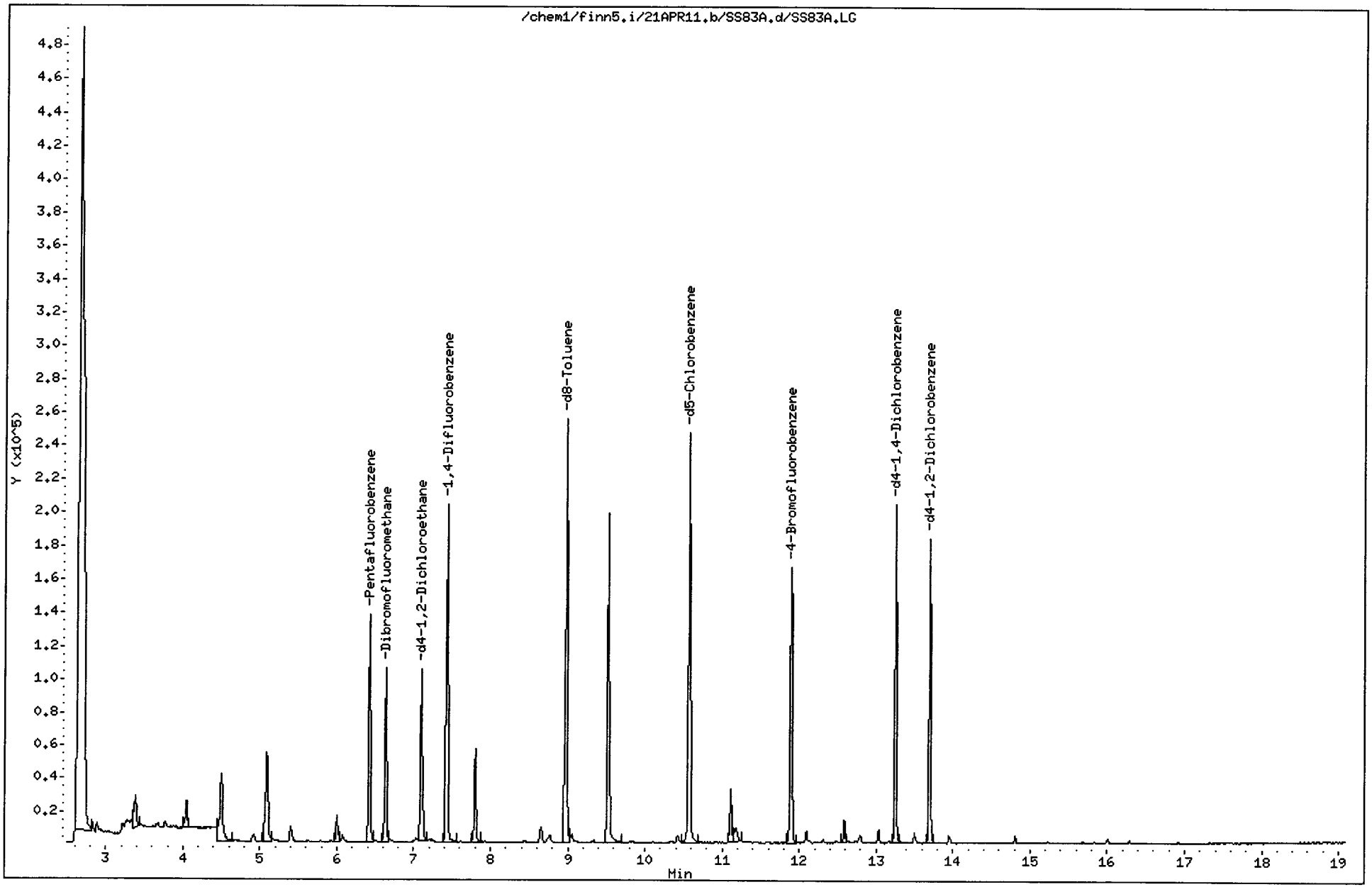
SURROGATE COMPOUND	AMOUNT ADDED ug/Kg	AMOUNT RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 25 Dibromofluorometha	50.000	57.392	114.78	30-160
$ 31 d4-1,2-Dichloroeth	50.000	60.180	120.36	75-152
$ 43 d8-Toluene	50.000	46.430	92.86	82-115
$ 62 4-Bromofluorobenze	50.000	42.759	85.52	64-120
$ 79 d4-1,2-Dichloroben	50.000	50.573	101.15	80-120

Data File: /chem1/finn5.i/21APR11.b/SS83A.d
Date : 21-APR-2011 11:04
Client ID: DMA-TP1-0-3-041911
Sample Info: SS83A,5,9.773,0

Instrument: finn5.i

Operator: PB
Column diameter: 0.18

Column phase: Rtx502.2



CO-ELUTION SUMMARY FOR FILE - SS83A.d

Lab ID: SS83A, Method: s8260b.m, Instrument: finn5.i, Date: 21-APR-2011

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Analytical Resources, Inc.

8260C

Data file : /chem1/finn5.i/21APR11.b/SS83B.d
Lab Smp Id: SS83B Client Smp ID: DMA-TP1-3-4.5-04191
Inj Date : 21-APR-2011 11:39
Operator : PB Inst ID: finn5.i
Smp Info : SS83B,5,7.603,0
Misc Info : 11-8712
Comment :
Method : /chem1/finn5.i/21APR11.b/s8260b.m
Meth Date : 25-Apr-2011 16:10 patrickb Quant Type: ISTD
Cal Date : 09-MAR-2011 13:53 Cal File: 2000309.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	7.60300	Sample Amount
M	0.00000	Moisture (%)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
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.					
7	Acrolein	56	Compound Not Detected.					
8	112Trichloro122Trifluoroethane	101	Compound Not Detected.					
9	Acetone	43	4.502	4.502	(0.701)	236890	802.467	527.73
10	1,1-Dichloroethene	96	Compound Not Detected.					
11	Bromoethane	108	Compound Not Detected.					
12	Iodomethane	142	Compound Not Detected.					
13	Methylene Chloride	84	5.075	5.085	(0.790)	17110	20.0233	13.168
14	Acrylonitrile	53	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
	16 Methyl tert-Butyl Ether	73	Compound Not Detected.					
	15 Carbon Disulfide	76	5.176	5.176	(0.806)	7753	2.86652	1.885
	17 Trans-1,2-Dichloroethene	96	Compound Not Detected.					
	18 Vinyl Acetate	43	Compound Not Detected.					
	19 1,1-Dichloroethane	63	Compound Not Detected.					
	20 2-Butanone	43	6.080	6.090	(0.947)	85327	200.175	131.64
	21 2,2-Dichloropropane	77	Compound Not Detected.					
	22 Cis-1,2-Dichloroethene	96	Compound Not Detected.					
*	23 Pentafluorobenzene	168	6.422	6.432	(1.000)	64702	50.0000	
	24 Chloroform	83	Compound Not Detected.					
	26 Bromochloromethane	128	Compound Not Detected.					
$	25 Dibromofluoromethane	111	6.633	6.643	(1.033)	46424	60.3621	39.696(Q)
	27 1,1,1-Trichloroethane	97	Compound Not Detected.					
	29 1,1-Dichloropropene	75	Compound Not Detected.					
	30 Carbon Tetrachloride	117	Compound Not Detected.					
$	31 d4-1,2-Dichloroethane	65	7.095	7.105	(1.105)	46063	64.6585	42.522
	32 1,2-Dichloroethane	62	Compound Not Detected.					
	33 Benzene	78	7.236	7.236	(0.974)	3074	0.97461	0.6409
*	34 1,4-Difluorobenzene	114	7.427	7.437	(1.000)	112223	50.0000	
	35 Trichloroethene	95	Compound Not Detected.					
	36 1,2-Dichloropropane	63	Compound Not Detected.					
	37 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	8.975	8.975	(1.208)	115571	45.5561	29.959
	44 Toluene	92	9.055	9.065	(1.219)	92995	46.2399	30.409
	45 Trans 1,3-Dichloropropene	75	Compound Not Detected.					
	46 2-Hexanone	43	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	10.573	10.573	(1.000)	91377	50.0000	
	53 Chlorobenzene	112	Compound Not Detected.					
	54 Ethyl Benzene	91	10.653	10.653	(1.008)	212372	73.2038	48.141
	55 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
	56 m,p-xylene	106	10.733	10.733	(1.015)	2487	2.11223	1.389(QM)
	57 o-Xylene	106	Compound Not Detected.					
	58 Styrene	104	Compound Not Detected.					
	59 Isopropyl Benzene	105	Compound Not Detected.					
	60 Bromoform	173	Compound Not Detected.					
	61 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
$	62 4-Bromofluorobenzene	95	11.899	11.899	(1.125)	37521	40.0034	26.308
	63 1,2,3-Trichloropropane	110	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
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.					
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	12.683	12.693	(0.957)	643	0.44973	0.2958(Q)
73	S-Butyl Benzene	105	Compound Not Detected.					
74	4-Isopropyl Toluene	119	13.035	13.035	(0.983)	4027	2.69570	1.773
75	1,3-Dichlorobenzene	146	Compound Not Detected.					
* 76	d4-1,4-Dichlorobenzene	152	13.256	13.256	(1.000)	30056	50.0000	
77	1,4-Dichlorobenzene	146	Compound Not Detected.					
78	N-Butyl Benzene	91	Compound Not Detected.					
$ 79	d4-1,2-Dichlorobenzene	152	13.698	13.698	(1.033)	24501	45.9006	30.186
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: finn5.i
Lab File ID: SS83B.d
Lab Smp Id: SS83B
Analysis Type: VOA
Quant Type: ISTD
Operator: PB
Method File: /chem1/finn5.i/21APR11.b/s8260b.m
Misc Info: 11-8712

Calibration Date: 21-APR-2011
Calibration Time: 08:45
Client Smp ID: DMA-TP1-3-4.5-04191
Level: LOW
Sample Type: Soil

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	
23 Pentafluorobenzen	91022	45511	182044	64702	-28.92	
34 1,4-Difluorobenze	153104	76552	306208	112223	-26.70	
52 d5-Chlorobenzene	143720	71860	287440	91377	-36.42	
76 d4-1,4-Dichlorobe	77398	38699	154796	30056	-61.17	<- only

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	6.43	5.93	6.93	6.42	-0.16
34 1,4-Difluorobenze	7.44	6.94	7.94	7.43	-0.14
52 d5-Chlorobenzene	10.57	10.07	11.07	10.57	0.00
76 d4-1,4-Dichlorobe	13.26	12.76	13.76	13.26	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: SOLID
Lab Smp Id: SS83B
Level: LOW
Data Type: MS DATA
SpikeList File: all.spk
Sublist File: voa.sub
Method File: /chem1/finn5.i/21APR11.b/s8260b.m
Misc Info: 11-8712

Client SDG: SS83
Fraction: VOA
Client Smp ID: DMA-TP1-3-4.5-04191
Operator: PB
SampleType: SAMPLE
Quant Type: ISTD

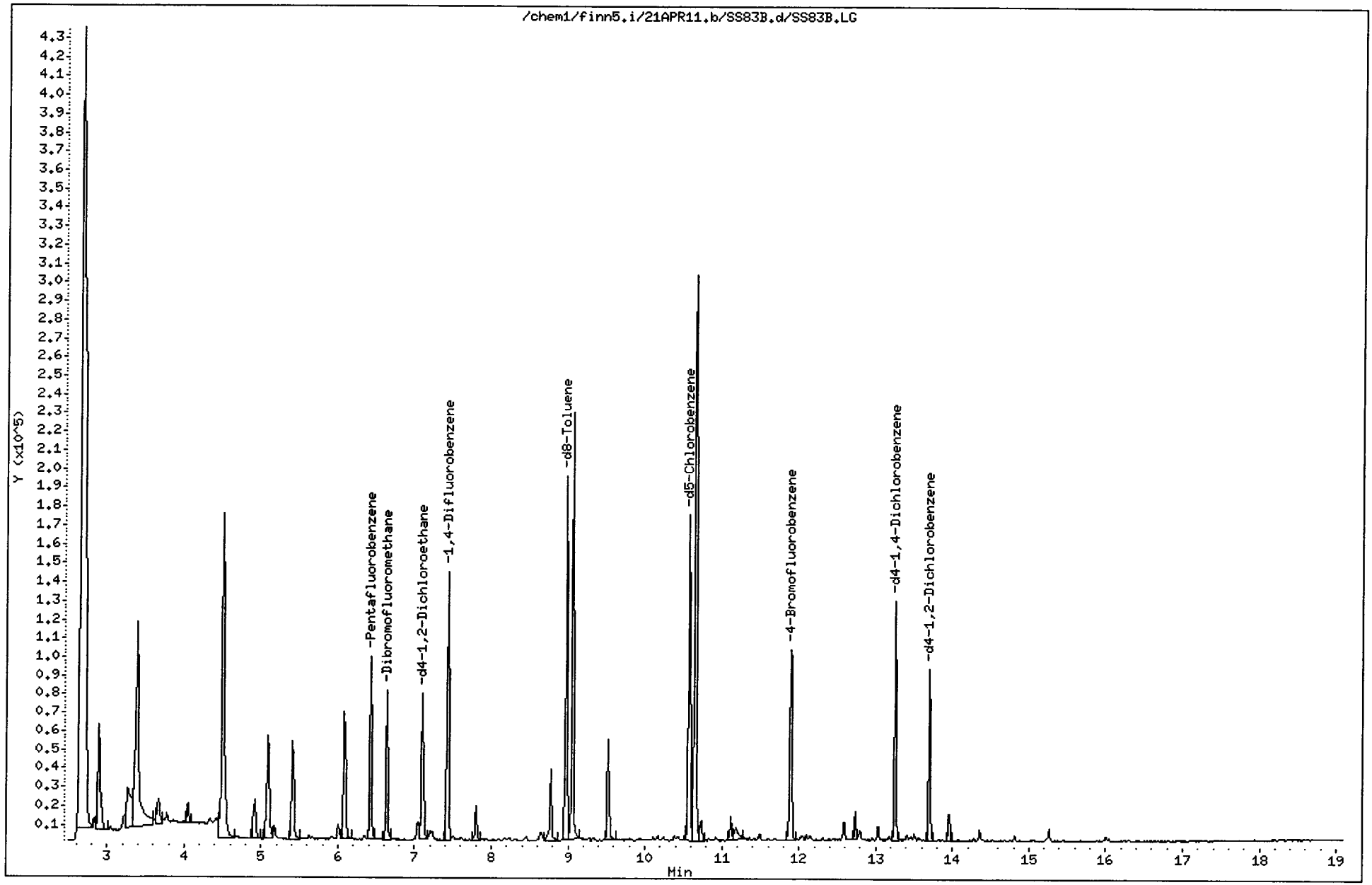
SURROGATE COMPOUND	AMOUNT ADDED ug/Kg	AMOUNT RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 25 Dibromofluorometha	50.000	60.362	120.72	30-160
$ 31 d4-1,2-Dichloroeth	50.000	64.658	129.32	75-152
$ 43 d8-Toluene	50.000	45.556	91.11	82-115
$ 62 4-Bromofluorobenze	50.000	40.003	80.01	64-120
$ 79 d4-1,2-Dichloroben	50.000	45.901	91.80	80-120

Data File: /chem1/finn5.i/21APR11.b/SS83B.d
Date : 21-APR-2011 11:39
Client ID: DMA-TP1-3-4.5-04191
Sample Info: SS83B,5,7.603,0

Instrument: finn5.i

Operator: PB
Column diameter: 0.18

Column phase: Rtx502.2



CO-ELUTION SUMMARY FOR FILE - SS83B.d

Lab ID: SS83B, Method: s8260b.m, Instrument: finn5.i, Date: 21-APR-2011

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Analytical Resources, Inc.

8260C

Data file : /chem1/finn5.i/21APR11.b/SS83C.d
Lab Smp Id: SS83C Client Smp ID: DMA-TP1-4.5-5.5-041
Inj Date : 21-APR-2011 12:01
Operator : PB Inst ID: finn5.i
Smp Info : SS83C,5,8.609,0
Misc Info : 11-8713
Comment :
Method : /chem1/finn5.i/21APR11.b/s8260b.m
Meth Date : 25-Apr-2011 16:10 patrickb Quant Type: ISTD
Cal Date : 09-MAR-2011 13:53 Cal File: 2000309.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	8.60900	Sample Amount
M	0.00000	Moisture (%)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
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.					
7 Acrolein	56	Compound Not Detected.					
8 112Trichloro122Trifluoroethane	101	Compound Not Detected.					
9 Acetone	43	4.502	4.502	(0.700)	28752	81.2478	47.188
10 1,1-Dichloroethene	96	Compound Not Detected.					
11 Bromoethane	108	Compound Not Detected.					
12 Iodomethane	142	Compound Not Detected.					
13 Methylene Chloride	84	5.085	5.085	(0.791)	8244	8.04796	4.674
14 Acrylonitrile	53	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
	16 Methyl tert-Butyl Ether	73	Compound Not Detected.					
	15 Carbon Disulfide	76	5.186	5.176	(0.806)	2694	0.83089	0.4826
	17 Trans-1,2-Dichloroethene	96	Compound Not Detected.					
	18 Vinyl Acetate	43	Compound Not Detected.					
	19 1,1-Dichloroethane	63	Compound Not Detected.					
	20 2-Butanone	43	6.090	6.090	(0.947)	6588	12.8926	7.488
	21 2,2-Dichloropropane	77	Compound Not Detected.					
	22 Cis-1,2-Dichloroethene	96	Compound Not Detected.					
*	23 Pentafluorobenzene	168	6.432	6.432	(1.000)	77563	50.0000	
	24 Chloroform	83	Compound Not Detected.					
	26 Bromochloromethane	128	Compound Not Detected.					
$	25 Dibromofluoromethane	111	6.643	6.643	(1.033)	51787	56.1701	32.623(Q)
	27 1,1,1-Trichloroethane	97	Compound Not Detected.					
	29 1,1-Dichloropropene	75	Compound Not Detected.					
	30 Carbon Tetrachloride	117	Compound Not Detected.					
$	31 d4-1,2-Dichloroethane	65	7.105	7.105	(1.105)	53342	62.4606	36.276
	32 1,2-Dichloroethane	62	Compound Not Detected.					
	33 Benzene	78	Compound Not Detected.					
*	34 1,4-Difluorobenzene	114	7.437	7.437	(1.000)	134520	50.0000	
	35 Trichloroethene	95	Compound Not Detected.					
	36 1,2-Dichloropropane	63	Compound Not Detected.					
	37 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	8.985	8.975	(1.208)	146524	48.1838	27.984
	44 Toluene	92	9.065	9.065	(1.219)	3749	1.55513	0.9032
	45 Trans 1,3-Dichloropropene	75	Compound Not Detected.					
	46 2-Hexanone	43	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	10.583	10.573	(1.000)	130270	50.0000	
	53 Chlorobenzene	112	Compound Not Detected.					
	54 Ethyl Benzene	91	10.653	10.653	(1.007)	8256	1.99617	1.159
	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.					
	59 Isopropyl Benzene	105	Compound Not Detected.					
	60 Bromoform	173	Compound Not Detected.					
	61 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
$	62 4-Bromofluorobenzene	95	11.899	11.899	(1.124)	63364	47.3869	27.522
	63 1,2,3-Trichloropropane	110	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
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.					
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	13.256	13.256	(1.000)	64787	50.0000	
77	1,4-Dichlorobenzene	146	Compound Not Detected.					
78	N-Butyl Benzene	91	Compound Not Detected.					
$ 79	d4-1,2-Dichlorobenzene	152	13.708	13.698	(1.034)	58325	50.6912	29.441
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: finn5.i
Lab File ID: SS83C.d
Lab Smp Id: SS83C
Analysis Type: VOA
Quant Type: ISTD
Operator: PB
Method File: /chem1/finn5.i/21APR11.b/s8260b.m
Misc Info: 11-8713

Calibration Date: 21-APR-2011
Calibration Time: 08:45
Client Smp ID: DMA-TP1-4.5-5.5-041
Level: LOW
Sample Type: Soil

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
23 Pentafluorobenzen	91022	45511	182044	77563	-14.79
34 1,4-Difluorobenze	153104	76552	306208	134520	-12.14
52 d5-Chlorobenzene	143720	71860	287440	130270	-9.36
76 d4-1,4-Dichlorobe	77398	38699	154796	64787	-16.29

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	6.43	5.93	6.93	6.43	0.00
34 1,4-Difluorobenze	7.44	6.94	7.94	7.44	0.00
52 d5-Chlorobenzene	10.57	10.07	11.07	10.58	0.10
76 d4-1,4-Dichlorobe	13.26	12.76	13.76	13.26	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: SOLID
Lab Smp Id: SS83C
Level: LOW
Data Type: MS DATA
SpikeList File: all.spk
Sublist File: voa.sub
Method File: /chem1/finn5.i/21APR11.b/s8260b.m
Misc Info: 11-8713

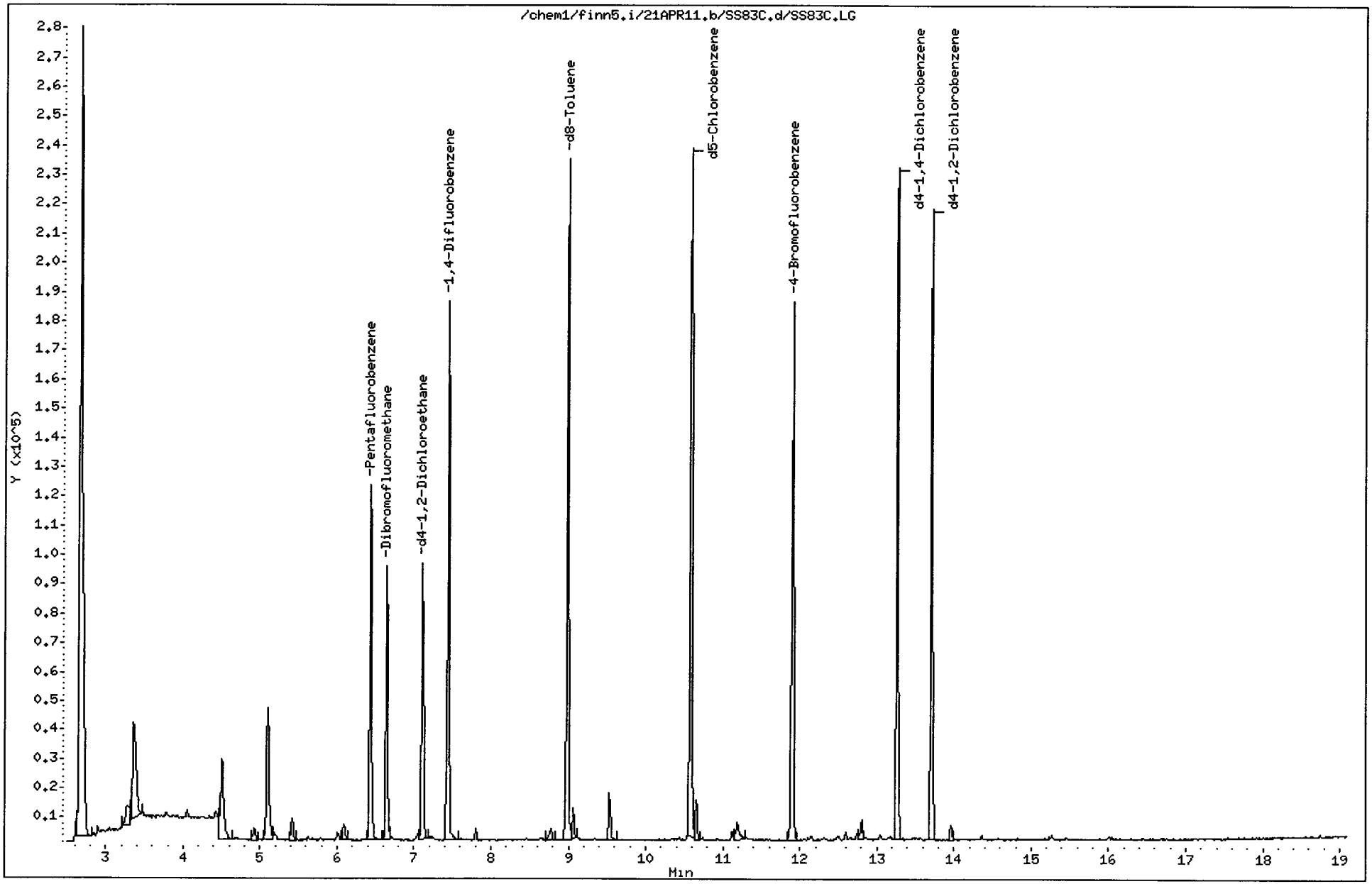
Client SDG: SS83
Fraction: VOA
Client Smp ID: DMA-TP1-4.5-5.5-041
Operator: PB
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	AMOUNT ADDED ug/Kg	AMOUNT RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 25 Dibromofluorometha	50.000	56.170	112.34	30-160
$ 31 d4-1,2-Dichloroeth	50.000	62.460	124.92	75-152
$ 43 d8-Toluene	50.000	48.184	96.37	82-115
$ 62 4-Bromofluorobenze	50.000	47.387	94.77	64-120
$ 79 d4-1,2-Dichloroben	50.000	50.691	101.38	80-120

Data File: /chem1/finn5.i/21APR11.b/SS83C.d
Date : 21-APR-2011 12:01
Client ID: DMA-TP1-4.5-5.5-041
Sample Info: SS83C,5,8.609,0

Instrument: finn5.i
Operator: PB
Column diameter: 0.18

Column phase: Rtx502.2



CO-ELUTION SUMMARY FOR FILE - SS83C.d

Lab ID: SS83C, Method: s8260b.m, Instrument: finn5.i, Date: 21-APR-2011

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Analytical Resources, Inc.

8260C

Data file : /chem1/finn5.i/21APR11.b/SS83D.d
Lab Smp Id: SS83D Client Smp ID: DMA-TP2-1.5-3-04191
Inj Date : 21-APR-2011 12:29
Operator : PB Inst ID: finn5.i
Smp Info : SS83D,5,7.543,0
Misc Info : 11-8714
Comment :
Method : /chem1/finn5.i/21APR11.b/s8260b.m
Meth Date : 25-Apr-2011 16:10 patrickb Quant Type: ISTD
Cal Date : 09-MAR-2011 13:53 Cal File: 2000309.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	7.54300	Sample Amount
M	0.00000	Moisture (%)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
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.					
7 Acrolein	56	Compound Not Detected.					
8 112Trichloro122Trifluoroethane	101	Compound Not Detected.					
9 Acetone	43	4.522	4.502	(0.702)	101228	326.678	216.54
10 1,1-Dichloroethene	96	Compound Not Detected.					
11 Bromoethane	108	Compound Not Detected.					
12 Iodomethane	142	Compound Not Detected.					
13 Methylene Chloride	84	5.095	5.085	(0.791)	14787	16.4856	10.928
14 Acrylonitrile	53	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
	16 Methyl tert-Butyl Ether	73	Compound Not Detected.					
	15 Carbon Disulfide	76	5.196	5.176	(0.807)	3810	1.34199	0.8896
	17 Trans-1,2-Dichloroethene	96	Compound Not Detected.					
	18 Vinyl Acetate	43	Compound Not Detected.					
	19 1,1-Dichloroethane	63	Compound Not Detected.					
	20 2-Butanone	43	6.100	6.090	(0.947)	29200	65.2598	43.258
	21 2,2-Dichloropropane	77	Compound Not Detected.					
	22 Cis-1,2-Dichloroethene	96	Compound Not Detected.					
*	23 Pentafluorobenzene	168	6.442	6.432	(1.000)	67917	50.0000	
	24 Chloroform	83	Compound Not Detected.					
	26 Bromochloromethane	128	Compound Not Detected.					
$	25 Dibromofluoromethane	111	6.653	6.643	(1.033)	48408	59.9623	39.747(Q)
	27 1,1,1-Trichloroethane	97	Compound Not Detected.					
	29 1,1-Dichloropropene	75	Compound Not Detected.					
	30 Carbon Tetrachloride	117	Compound Not Detected.					
$	31 d4-1,2-Dichloroethane	65	7.115	7.105	(1.105)	46850	62.6502	41.529
	32 1,2-Dichloroethane	62	Compound Not Detected.					
	33 Benzene	78	Compound Not Detected.					
*	34 1,4-Difluorobenzene	114	7.447	7.437	(1.000)	118382	50.0000	
	35 Trichloroethene	95	Compound Not Detected.					
	36 1,2-Dichloropropane	63	Compound Not Detected.					
	37 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	8.995	8.975	(1.208)	124450	46.5038	30.826
	44 Toluene	92	9.075	9.065	(1.219)	110374	52.0260	34.486
	45 Trans 1,3-Dichloropropene	75	Compound Not Detected.					
	46 2-Hexanone	43	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	10.593	10.573	(1.000)	104708	50.0000	
	53 Chlorobenzene	112	Compound Not Detected.					
	54 Ethyl Benzene	91	10.673	10.653	(1.008)	18796	5.65404	3.748
	55 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
	56 m,p-xylene	106	10.753	10.733	(1.015)	613	0.45434	0.3012(Q)
	57 o-Xylene	106	Compound Not Detected.					
	58 Styrene	104	Compound Not Detected.					
	59 Isopropyl Benzene	105	Compound Not Detected.					
	60 Bromoform	173	Compound Not Detected.					
	61 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
$	62 4-Bromofluorobenzene	95	11.919	11.899	(1.125)	43694	40.6539	26.948
	63 1,2,3-Trichloropropane	110	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
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.					
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	13.055	13.035	(0.983)	788	0.42985	0.2849
75	1,3-Dichlorobenzene	146	Compound Not Detected.					
* 76	d4-1,4-Dichlorobenzene	152	13.276	13.256	(1.000)	36883	50.0000	
77	1,4-Dichlorobenzene	146	Compound Not Detected.					
78	N-Butyl Benzene	91	Compound Not Detected.					
$ 79	d4-1,2-Dichlorobenzene	152	13.718	13.698	(1.033)	31535	48.1429	31.912
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: finn5.i
Lab File ID: SS83D.d
Lab Smp Id: SS83D
Analysis Type: VOA
Quant Type: ISTD
Operator: PB
Method File: /chem1/finn5.i/21APR11.b/s8260b.m
Misc Info: 11-8714

Calibration Date: 21-APR-2011
Calibration Time: 08:45
Client Smp ID: DMA-TP2-1.5-3-04191
Level: LOW
Sample Type: Soil

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	
23 Pentafluorobenzen	91022	45511	182044	67917	-25.38	
34 1,4-Difluorobenze	153104	76552	306208	118382	-22.68	
52 d5-Chlorobenzene	143720	71860	287440	104708	-27.14	
76 d4-1,4-Dichlorobe	77398	38699	154796	36883	-52.35	<- LCS

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	6.43	5.93	6.93	6.44	0.16
34 1,4-Difluorobenze	7.44	6.94	7.94	7.45	0.14
52 d5-Chlorobenzene	10.57	10.07	11.07	10.59	0.19
76 d4-1,4-Dichlorobe	13.26	12.76	13.76	13.28	0.15

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: SOLID
Lab Smp Id: SS83D
Level: LOW
Data Type: MS DATA
SpikeList File: all.spk
Sublist File: voa.sub
Method File: /chem1/finn5.i/21APR11.b/s8260b.m
Misc Info: 11-8714

Client SDG: SS83
Fraction: VOA
Client Smp ID: DMA-TP2-1.5-3-04191
Operator: PB
SampleType: SAMPLE
Quant Type: ISTD

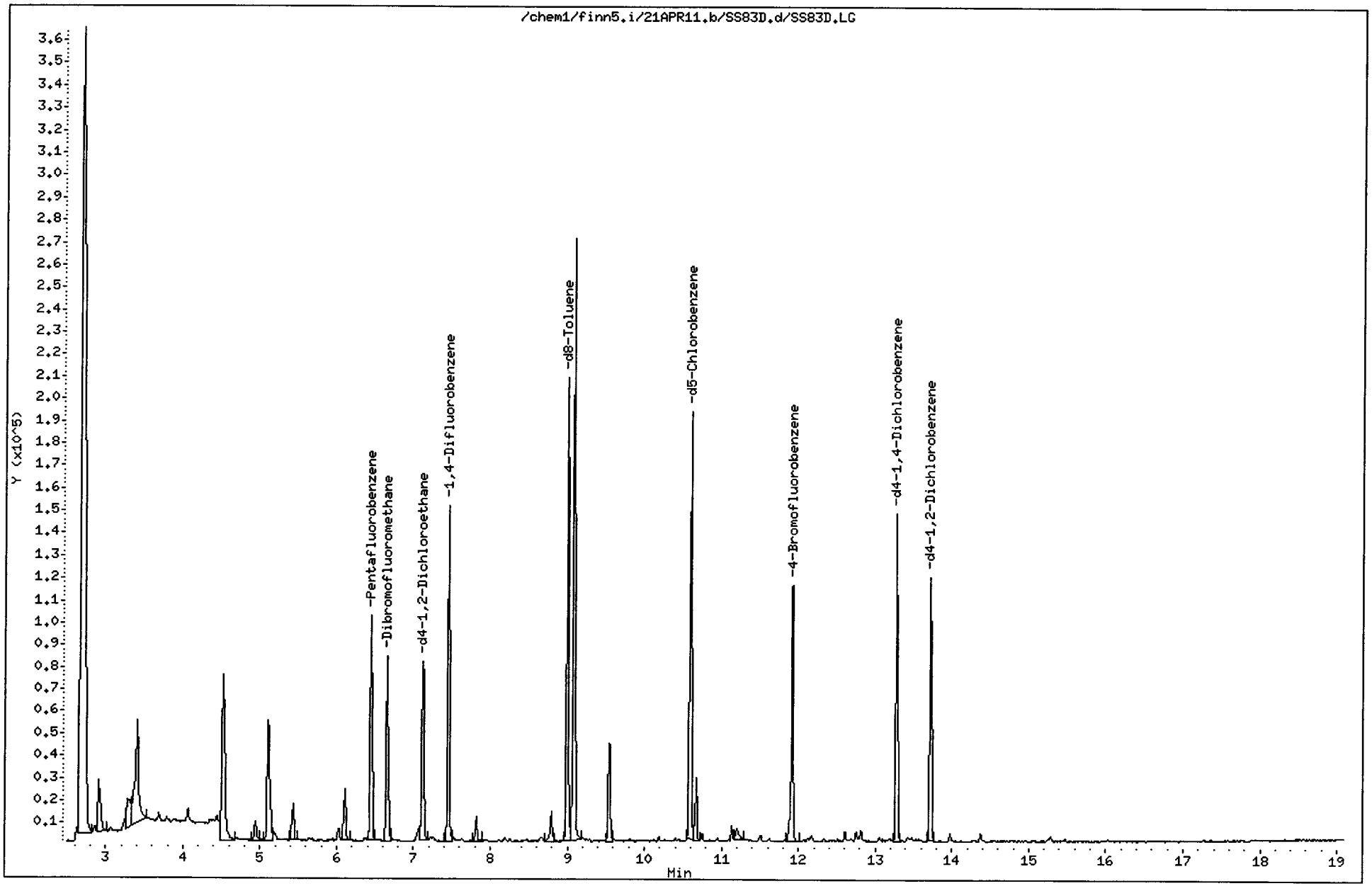
SURROGATE COMPOUND	AMOUNT ADDED ug/Kg	AMOUNT RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 25 Dibromofluorometha	50.000	59.962	119.92	30-160
$ 31 d4-1,2-Dichloroeth	50.000	62.650	125.30	75-152
$ 43 d8-Toluene	50.000	46.504	93.01	82-115
$ 62 4-Bromofluorobenze	50.000	40.654	81.31	64-120
$ 79 d4-1,2-Dichloroben	50.000	48.143	96.29	80-120

Data File: /chem1/finn5.i/21APR11.b/SS83D.d
Date : 21-APR-2011 12:29
Client ID: DMA-TP2-1.5-3-04191
Sample Info: SS83D,5,7.543,0

Column phase: Rtx502.2

Instrument: finn5.i

Operator: PB
Column diameter: 0.18



CO-ELUTION SUMMARY FOR FILE - SS83D.d

Lab ID: SS83D, Method: s8260b.m, Instrument: finn5.i, Date: 21-APR-2011

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Analytical Resources, Inc.

8260C

Data file : /chem1/finn5.i/21APR11.b/SS83E.d
Lab Smp Id: SS83E Client Smp ID: DMA-TP2-3-4-041911
Inj Date : 21-APR-2011 12:57
Operator : PB Inst ID: finn5.i
Smp Info : SS83E,5,7.832,0
Misc Info : 11-8715
Comment :
Method : /chem1/finn5.i/21APR11.b/s8260b.m
Meth Date : 25-Apr-2011 16:10 patrickb Quant Type: ISTD
Cal Date : 09-MAR-2011 13:53 Cal File: 2000309.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	7.83200	Sample Amount
M	0.00000	Moisture (%)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
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.					
7 Acrolein	56	Compound Not Detected.					
8 112Trichloro122Trifluoroethane	101	Compound Not Detected.					
9 Acetone	43	4.502	4.502	(0.700)	17286	42.0418	26.840
10 1,1-Dichloroethene	96	Compound Not Detected.					
11 Bromoethane	108	Compound Not Detected.					
12 Iodomethane	142	Compound Not Detected.					
13 Methylene Chloride	84	5.085	5.085	(0.791)	8544	7.17880	4.583
14 Acrylonitrile	53	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
	16 Methyl tert-Butyl Ether	73	Compound Not Detected.					
	15 Carbon Disulfide	76	Compound Not Detected.					
	17 Trans-1,2-Dichloroethene	96	Compound Not Detected.					
	18 Vinyl Acetate	43	Compound Not Detected.					
	19 1,1-Dichloroethane	63	Compound Not Detected.					
	20 2-Butanone	43	6.090	6.090	(0.947)	3224	5.43032	3.467
	21 2,2-Dichloropropane	77	Compound Not Detected.					
	22 Cis-1,2-Dichloroethene	96	Compound Not Detected.					
*	23 Pentafluorobenzene	168	6.432	6.432	(1.000)	90118	50.0000	
	24 Chloroform	83	Compound Not Detected.					
	26 Bromochloromethane	128	Compound Not Detected.					
$	25 Dibromofluoromethane	111	6.643	6.643	(1.033)	59955	55.9697	35.731(Q)
	27 1,1,1-Trichloroethane	97	Compound Not Detected.					
	29 1,1-Dichloropropene	75	Compound Not Detected.					
	30 Carbon Tetrachloride	117	Compound Not Detected.					
$	31 d4-1,2-Dichloroethane	65	7.105	7.105	(1.105)	62515	63.0034	40.222
	32 1,2-Dichloroethane	62	Compound Not Detected.					
	33 Benzene	78	Compound Not Detected.					
*	34 1,4-Difluorobenzene	114	7.437	7.437	(1.000)	157742	50.0000	
	35 Trichloroethene	95	Compound Not Detected.					
	36 1,2-Dichloropropane	63	Compound Not Detected.					
	37 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	8.985	8.975	(1.208)	170982	47.9493	30.611
	44 Toluene	92	9.065	9.065	(1.219)	1947	0.68874	0.4397
	45 Trans 1,3-Dichloropropene	75	Compound Not Detected.					
	46 2-Hexanone	43	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	10.583	10.573	(1.000)	156685	50.0000	
	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.					
	59 Isopropyl Benzene	105	Compound Not Detected.					
	60 Bromoform	173	Compound Not Detected.					
	61 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
$	62 4-Bromofluorobenzene	95	11.909	11.899	(1.125)	75166	46.7362	29.837
	63 1,2,3-Trichloropropane	110	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
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.					
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	13.266	13.256	(1.000)	80568	50.0000	
77	1,4-Dichlorobenzene	146	Compound Not Detected.					
78	N-Butyl Benzene	91	Compound Not Detected.					
$ 79	d4-1,2-Dichlorobenzene	152	13.708	13.698	(1.033)	73946	51.6795	32.992
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: finn5.i
Lab File ID: SS83E.d
Lab Smp Id: SS83E
Analysis Type: VOA
Quant Type: ISTD
Operator: PB
Method File: /chem1/finn5.i/21APR11.b/s8260b.m
Misc Info: 11-8715

Calibration Date: 21-APR-2011
Calibration Time: 08:45
Client Smp ID: DMA-TP2-3-4-041911
Level: LOW
Sample Type: Soil

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
23 Pentafluorobenzen	91022	45511	182044	90118	-0.99
34 1,4-Difluorobenze	153104	76552	306208	157742	3.03
52 d5-Chlorobenzene	143720	71860	287440	156685	9.02
76 d4-1,4-Dichlorobe	77398	38699	154796	80568	4.10

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	6.43	5.93	6.93	6.43	0.00
34 1,4-Difluorobenze	7.44	6.94	7.94	7.44	0.00
52 d5-Chlorobenzene	10.57	10.07	11.07	10.58	0.10
76 d4-1,4-Dichlorobe	13.26	12.76	13.76	13.27	0.08

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: SOLID
Lab Smp Id: SS83E
Level: LOW
Data Type: MS DATA
SpikeList File: all.spk
Sublist File: voa.sub
Method File: /chem1/finn5.i/21APR11.b/s8260b.m
Misc Info: 11-8715

Client SDG: SS83
Fraction: VOA
Client Smp ID: DMA-TP2-3-4-041911
Operator: PB
SampleType: SAMPLE
Quant Type: ISTD

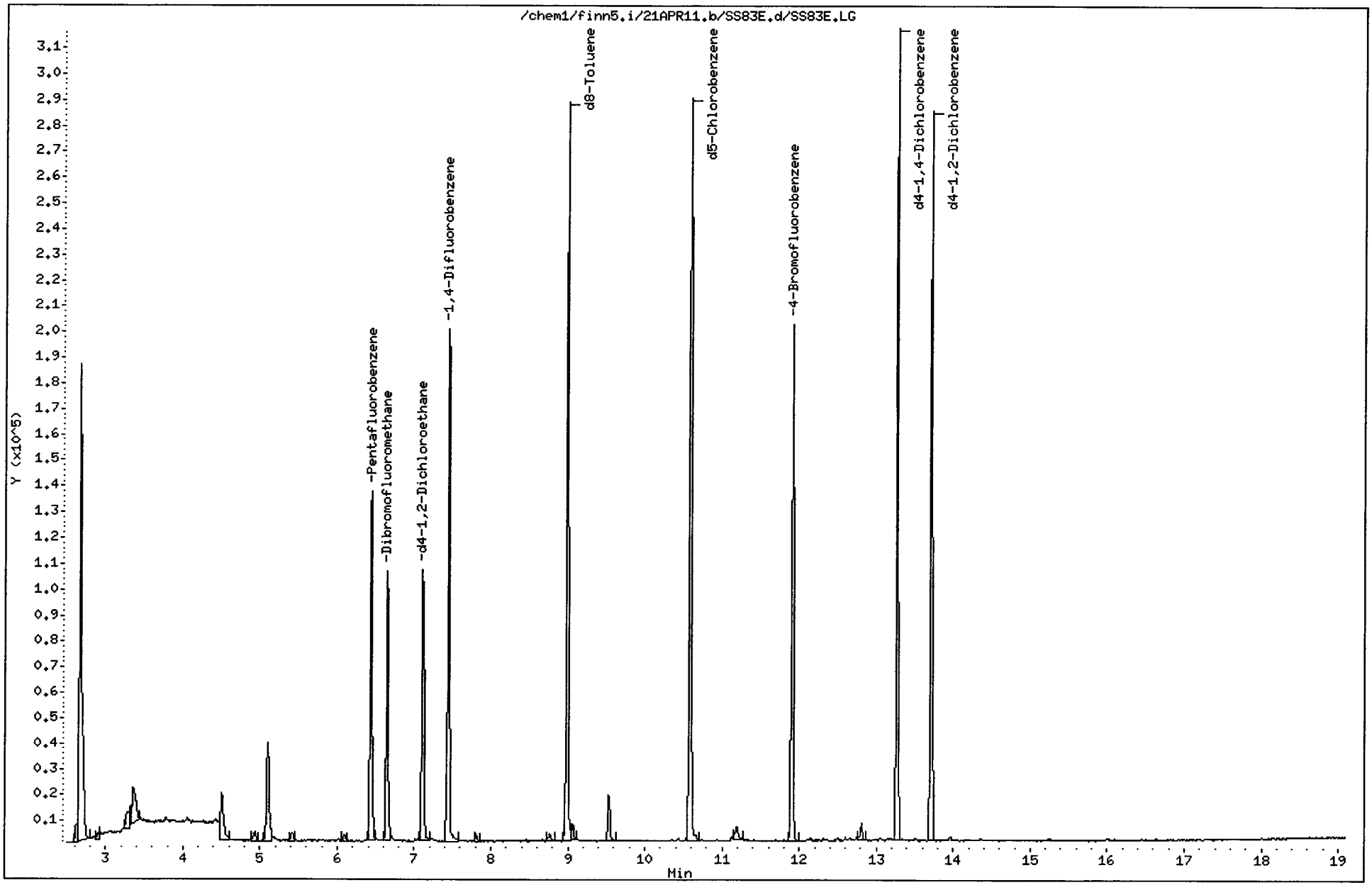
SURROGATE COMPOUND	AMOUNT ADDED ug/Kg	AMOUNT RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 25 Dibromofluorometha	50.000	55.970	111.94	30-160
$ 31 d4-1,2-Dichloroeth	50.000	63.003	126.01	75-152
$ 43 d8-Toluene	50.000	47.949	95.90	82-115
$ 62 4-Bromofluorobenze	50.000	46.736	93.47	64-120
$ 79 d4-1,2-Dichloroben	50.000	51.679	103.36	80-120

Data File: /chem1/finn5.i/21APR11.b/SS83E.d
Date : 21-APR-2011 12:57
Client ID: DMA-TP2-3-4-041911
Sample Info: SS83E,5,7.832,0

Instrument: finn5.i

Operator: PB
Column diameter: 0.18

Column phase: Rtx502.2



CO-ELUTION SUMMARY FOR FILE - SS83E.d

Lab ID: SS83E, Method: s8260b.m, Instrument: finn5.i, Date: 21-APR-2011

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Analytical Resources, Inc.

8260C

Data file : /chem1/finn5.i/21APR11.b/SS83F.d
Lab Smp Id: SS83F Client Smp ID: DMA-TP6-0-2.5-04191
Inj Date : 21-APR-2011 13:25
Operator : PB Inst ID: finn5.i
Smp Info : SS83F,5,8.201,0
Misc Info : 11-8716
Comment :
Method : /chem1/finn5.i/21APR11.b/s8260b.m
Meth Date : 25-Apr-2011 16:10 patrickb Quant Type: ISTD
Cal Date : 09-MAR-2011 13:53 Cal File: 2000309.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	8.20100	Sample Amount
M	0.00000	Moisture (%)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
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.					
7	Acrolein	56	Compound Not Detected.					
8	112Trichloro122Trifluoroethane	101	Compound Not Detected.					
9	Acetone	43	4.512	4.502	(0.700)	18893	54.1568	33.018(Q)
10	1,1-Dichloroethene	96	Compound Not Detected.					
11	Bromoethane	108	Compound Not Detected.					
12	Iodomethane	142	Compound Not Detected.					
13	Methylene Chloride	84	5.095	5.085	(0.791)	16721	16.5584	10.095
14	Acrylonitrile	53	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
	16 Methyl tert-Butyl Ether	73	Compound Not Detected.					
	15 Carbon Disulfide	76	Compound Not Detected.					
	17 Trans-1,2-Dichloroethene	96	Compound Not Detected.					
	18 Vinyl Acetate	43	Compound Not Detected.					
	19 1,1-Dichloroethane	63	Compound Not Detected.					
	20 2-Butanone	43	6.100	6.090	(0.947)	2615	5.19120	3.165
	21 2,2-Dichloropropane	77	Compound Not Detected.					
	22 Cis-1,2-Dichloroethene	96	Compound Not Detected.					
*	23 Pentafluorobenzene	168	6.442	6.432	(1.000)	76462	50.0000	
	24 Chloroform	83	Compound Not Detected.					
	26 Bromochloromethane	128	Compound Not Detected.					
$	25 Dibromofluoromethane	111	6.653	6.643	(1.033)	54568	60.0388	36.604(Q)
	27 1,1,1-Trichloroethane	97	Compound Not Detected.					
	29 1,1-Dichloropropene	75	Compound Not Detected.					
	30 Carbon Tetrachloride	117	Compound Not Detected.					
$	31 d4-1,2-Dichloroethane	65	7.115	7.105	(1.105)	53558	63.6165	38.786
	32 1,2-Dichloroethane	62	Compound Not Detected.					
	33 Benzene	78	Compound Not Detected.					
*	34 1,4-Difluorobenzene	114	7.447	7.437	(1.000)	135192	50.0000	
	35 Trichloroethene	95	Compound Not Detected.					
	36 1,2-Dichloropropane	63	Compound Not Detected.					
	37 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	8.985	8.975	(1.206)	147725	48.3373	29.470
	44 Toluene	92	9.075	9.065	(1.219)	2938	1.21266	0.7393
	45 Trans 1,3-Dichloropropene	75	Compound Not Detected.					
	46 2-Hexanone	43	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	10.583	10.573	(1.000)	128520	50.0000	
	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.					
	59 Isopropyl Benzene	105	Compound Not Detected.					
	60 Bromoform	173	Compound Not Detected.					
	61 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
$	62 4-Bromofluorobenzene	95	11.909	11.899	(1.125)	54839	41.5699	25.344
	63 1,2,3-Trichloropropane	110	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
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.					
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	13.266	13.256	(1.000)	51962	50.0000	
77	1,4-Dichlorobenzene	146	Compound Not Detected.					
78	N-Butyl Benzene	91	Compound Not Detected.					
$ 79	d4-1,2-Dichlorobenzene	152	13.708	13.698	(1.033)	46854	50.7723	30.955
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: finn5.i
Lab File ID: SS83F.d
Lab Smp Id: SS83F
Analysis Type: VOA
Quant Type: ISTD
Operator: PB
Method File: /chem1/finn5.i/21APR11.b/s8260b.m
Misc Info: 11-8716

Calibration Date: 21-APR-2011
Calibration Time: 08:45
Client Smp ID: DMA-TP6-0-2.5-04191
Level: LOW
Sample Type: Soil

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
23 Pentafluorobenzen	91022	45511	182044	76462	-16.00
34 1,4-Difluorobenze	153104	76552	306208	135192	-11.70
52 d5-Chlorobenzene	143720	71860	287440	128520	-10.58
76 d4-1,4-Dichlorobe	77398	38699	154796	51962	-32.86

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	6.43	5.93	6.93	6.44	0.16
34 1,4-Difluorobenze	7.44	6.94	7.94	7.45	0.14
52 d5-Chlorobenzene	10.57	10.07	11.07	10.58	0.10
76 d4-1,4-Dichlorobe	13.26	12.76	13.76	13.27	0.08

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: SOLID
Lab Smp Id: SS83F
Level: LOW
Data Type: MS DATA
SpikeList File: all.spk
Sublist File: voa.sub
Method File: /chem1/finn5.i/21APR11.b/s8260b.m
Misc Info: 11-8716

Client SDG: SS83
Fraction: VOA
Client Smp ID: DMA-TP6-0-2.5-04191
Operator: PB
SampleType: SAMPLE
Quant Type: ISTD

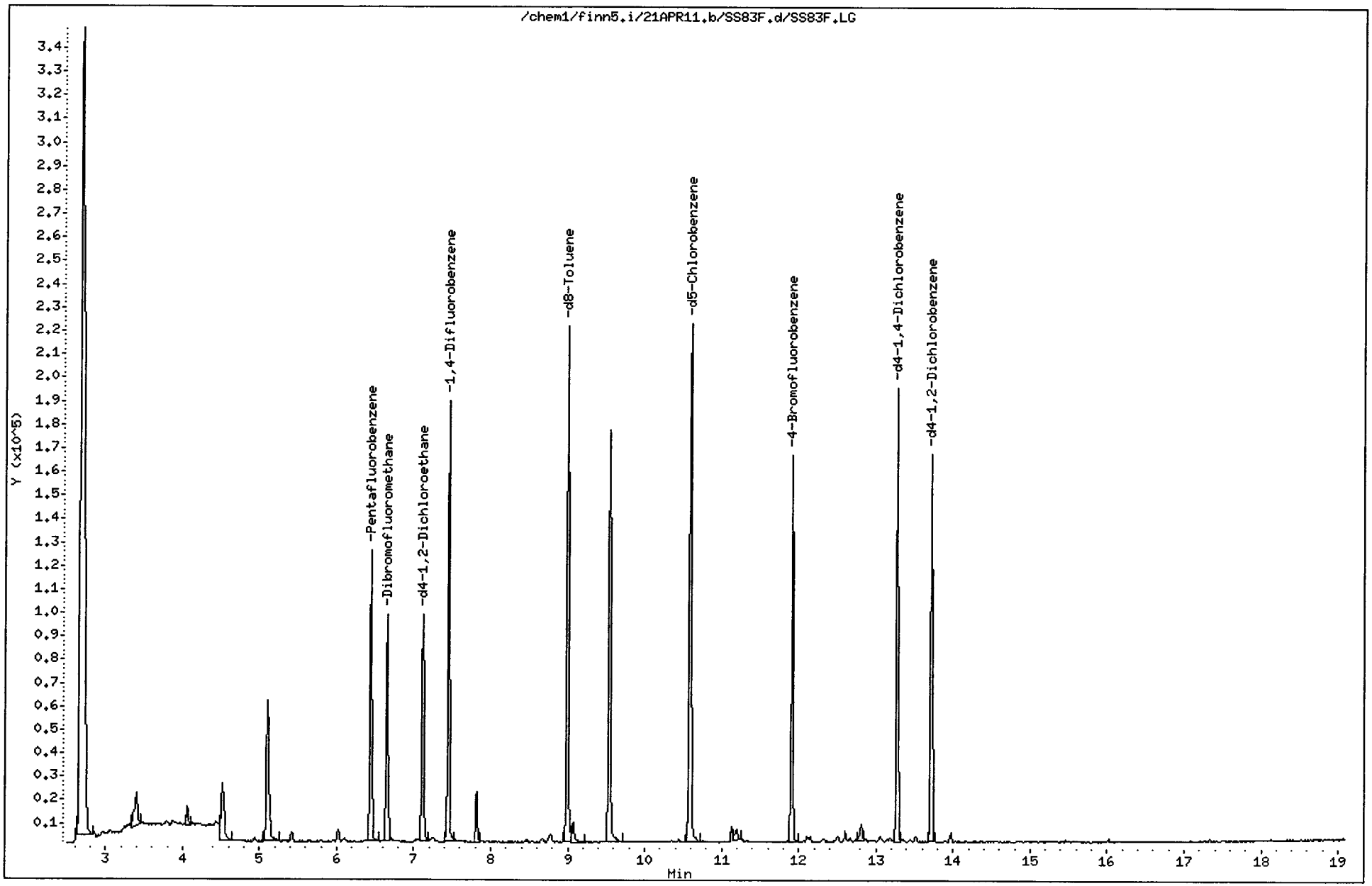
SURROGATE COMPOUND	AMOUNT ADDED ug/Kg	AMOUNT RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 25 Dibromofluorometha	50.000	60.039	120.08	30-160
$ 31 d4-1,2-Dichloroeth	50.000	63.616	127.23	75-152
$ 43 d8-Toluene	50.000	48.337	96.67	82-115
$ 62 4-Bromofluorobenze	50.000	41.570	83.14	64-120
$ 79 d4-1,2-Dichloroben	50.000	50.772	101.54	80-120

Data File: /chem1/finn5.i/21APR11.b/SS83F.d
Date : 21-APR-2011 13:25
Client ID: DMA-TP6-0-2.5-04191
Sample Info: SS83F,5,8.201,0

Column phase: Rtx502.2

Instrument: finn5.i

Operator: PB
Column diameter: 0.18



CO-ELUTION SUMMARY FOR FILE - SS83F.d

Lab ID: SS83F, Method: s8260b.m, Instrument: finn5.i, Date: 21-APR-2011

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Analytical Resources, Inc.

8260C

Data file : /chem1/finn5.i/21APR11.b/SS83G.d
Lab Smp Id: SS83G Client Smp ID: DMA-TP6-2.5-5-04191
Inj Date : 21-APR-2011 13:53
Operator : PB Inst ID: finn5.i
Smp Info : SS83G,5,9.573,0
Misc Info : 11-8717
Comment :
Method : /chem1/finn5.i/21APR11.b/s8260b.m
Meth Date : 25-Apr-2011 16:10 patrickb Quant Type: ISTD
Cal Date : 09-MAR-2011 13:53 Cal File: 2000309.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	9.57300	Sample Amount
M	0.00000	Moisture (%)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
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.					
7 Acrolein	56	Compound Not Detected.					
8 112Trichloro122Trifluoroethane	101	Compound Not Detected.					
9 Acetone	43	4.492	4.502	(0.700)	18438	58.5005	30.555(Q)
10 1,1-Dichloroethene	96	Compound Not Detected.					
11 Bromoethane	108	Compound Not Detected.					
12 Iodomethane	142	Compound Not Detected.					
13 Methylene Chloride	84	5.075	5.085	(0.790)	10492	11.5003	6.007
14 Acrylonitrile	53	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
	16 Methyl tert-Butyl Ether	73	Compound Not Detected.					
	15 Carbon Disulfide	76	Compound Not Detected.					
	17 Trans-1,2-Dichloroethene	96	Compound Not Detected.					
	18 Vinyl Acetate	43	Compound Not Detected.					
	19 1,1-Dichloroethane	63	Compound Not Detected.					
	20 2-Butanone	43	6.080	6.090	(0.947)	2437	5.35482	2.797
	21 2,2-Dichloropropane	77	Compound Not Detected.					
	22 Cis-1,2-Dichloroethene	96	Compound Not Detected.					
*	23 Pentafluorobenzene	168	6.422	6.432	(1.000)	69080	50.0000	
	24 Chloroform	83	Compound Not Detected.					
	26 Bromochloromethane	128	Compound Not Detected.					
$	25 Dibromofluoromethane	111	6.633	6.643	(1.033)	47337	57.6485	30.110(Q)
	27 1,1,1-Trichloroethane	97	Compound Not Detected.					
	29 1,1-Dichloropropene	75	Compound Not Detected.					
	30 Carbon Tetrachloride	117	Compound Not Detected.					
$	31 d4-1,2-Dichloroethane	65	7.095	7.105	(1.105)	48400	63.6333	33.236
	32 1,2-Dichloroethane	62	Compound Not Detected.					
	33 Benzene	78	7.226	7.236	(0.973)	1637	0.47988	0.2506
*	34 1,4-Difluorobenzene	114	7.427	7.437	(1.000)	121373	50.0000	
	35 Trichloroethene	95	Compound Not Detected.					
	36 1,2-Dichloropropane	63	Compound Not Detected.					
	37 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	8.975	8.975	(1.208)	130749	47.6536	24.890
	44 Toluene	92	9.055	9.065	(1.219)	1917	0.88133	0.4603
	45 Trans 1,3-Dichloropropene	75	Compound Not Detected.					
	46 2-Hexanone	43	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	10.573	10.573	(1.000)	115458	50.0000	
	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.					
	59 Isopropyl Benzene	105	Compound Not Detected.					
	60 Bromoform	173	Compound Not Detected.					
	61 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
$	62 4-Bromofluorobenzene	95	11.889	11.899	(1.125)	49626	41.8741	21.871
	63 1,2,3-Trichloropropane	110	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
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.					
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	13.246	13.256	(1.000)	47591	50.0000	
77	1,4-Dichlorobenzene	146	Compound Not Detected.					
78	N-Butyl Benzene	91	Compound Not Detected.					
$ 79	d4-1,2-Dichlorobenzene	152	13.698	13.698	(1.034)	42951	50.8176	26.542
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: finn5.i
Lab File ID: SS83G.d
Lab Smp Id: SS83G
Analysis Type: VOA
Quant Type: ISTD
Operator: PB
Method File: /chem1/finn5.i/21APR11.b/s8260b.m
Misc Info: 11-8717

Calibration Date: 21-APR-2011
Calibration Time: 08:45
Client Smp ID: DMA-TP6-2.5-5-04191
Level: LOW
Sample Type: Soil

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
23 Pentafluorobenzen	91022	45511	182044	69080	-24.11
34 1,4-Difluorobenze	153104	76552	306208	121373	-20.73
52 d5-Chlorobenzene	143720	71860	287440	115458	-19.66
76 d4-1,4-Dichlorobe	77398	38699	154796	47591	-38.51

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	6.43	5.93	6.93	6.42	-0.16
34 1,4-Difluorobenze	7.44	6.94	7.94	7.43	-0.14
52 d5-Chlorobenzene	10.57	10.07	11.07	10.57	0.00
76 d4-1,4-Dichlorobe	13.26	12.76	13.76	13.25	-0.08

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: SOLID
Lab Smp Id: SS83G
Level: LOW
Data Type: MS DATA
SpikeList File: all.spk
Sublist File: voa.sub
Method File: /chem1/finn5.i/21APR11.b/s8260b.m
Misc Info: 11-8717

Client SDG: SS83
Fraction: VOA
Client Smp ID: DMA-TP6-2.5-5-04191
Operator: PB
SampleType: SAMPLE
Quant Type: ISTD

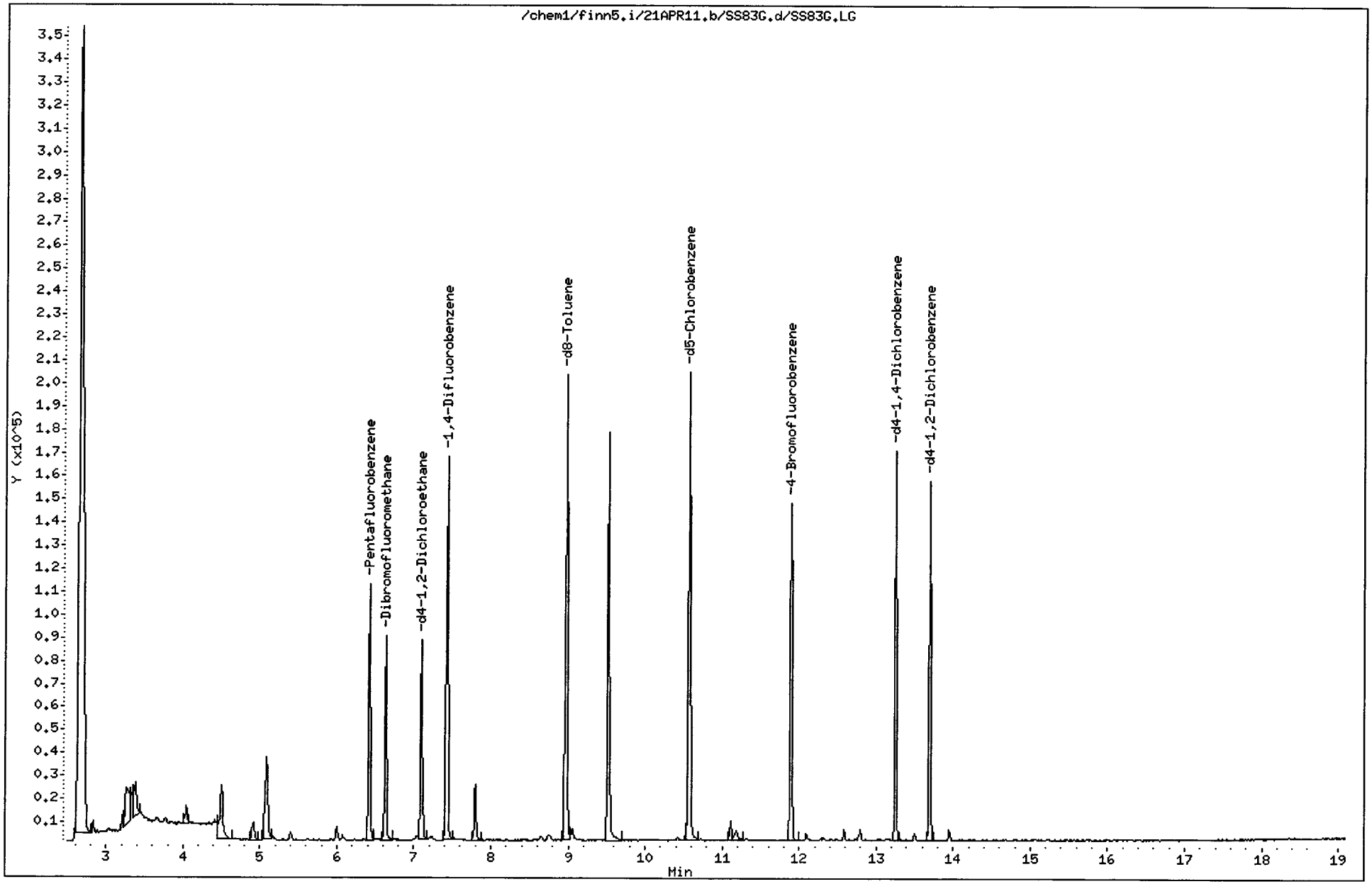
SURROGATE COMPOUND	AMOUNT ADDED ug/Kg	AMOUNT RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 25 Dibromofluorometha	50.000	57.648	115.30	30-160
$ 31 d4-1,2-Dichloroeth	50.000	63.633	127.27	75-152
$ 43 d8-Toluene	50.000	47.654	95.31	82-115
$ 62 4-Bromofluorobenze	50.000	41.874	83.75	64-120
$ 79 d4-1,2-Dichloroben	50.000	50.818	101.64	80-120

Data File: /chem1/finn5.i/21APR11.b/SS83G.d
Date : 21-APR-2011 13:53
Client ID: DMA-TP6-2.5-5-04191
Sample Info: SS83G,5,9.573,0

Instrument: finn5.i

Operator: PB
Column diameter: 0.18

Column phase: Rtx502.2



CO-ELUTION SUMMARY FOR FILE - SS83G.d

Lab ID: SS83G, Method: s8260b.m, Instrument: finn5.i, Date: 21-APR-2011

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Analytical Resources, Inc.

8260C

Data file : /chem1/finn5.i/21APR11.b/SS83H.d
Lab Smp Id: SS83H Client Smp ID: DMA-TP4-0-1.5-04201
Inj Date : 21-APR-2011 14:20
Operator : PB Inst ID: finn5.i
Smp Info : SS83H,5,5.932,0
Misc Info : 11-8718
Comment :
Method : /chem1/finn5.i/21APR11.b/s8260b.m
Meth Date : 25-Apr-2011 16:10 patrickb Quant Type: ISTD
Cal Date : 09-MAR-2011 13:53 Cal File: 2000309.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	5.93200	Sample Amount
M	0.00000	Moisture (%)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
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.					
7 Acrolein	56	Compound Not Detected.					
8 112Trichloro122Trifluoroethane	101	Compound Not Detected.					
9 Acetone	43	4.492	4.502	(0.700)	33655	118.082	99.530(Q)
10 1,1-Dichloroethene	96	Compound Not Detected.					
11 Bromoethane	108	Compound Not Detected.					
12 Iodomethane	142	Compound Not Detected.					
13 Methylene Chloride	84	5.075	5.085	(0.790)	8348	10.1186	8.529
14 Acrylonitrile	53	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
	16 Methyl tert-Butyl Ether	73	Compound Not Detected.					
	15 Carbon Disulfide	76	Compound Not Detected.					
	17 Trans-1,2-Dichloroethene	96	Compound Not Detected.					
	18 Vinyl Acetate	43	Compound Not Detected.					
	19 1,1-Dichloroethane	63	Compound Not Detected.					
	20 2-Butanone	43	6.080	6.090	(0.947)	4012	9.74851	8.217
	21 2,2-Dichloropropane	77	Compound Not Detected.					
	22 Cis-1,2-Dichloroethene	96	Compound Not Detected.					
*	23 Pentafluorobenzene	168	6.422	6.432	(1.000)	62469	50.0000	
	24 Chloroform	83	Compound Not Detected.					
	26 Bromochloromethane	128	Compound Not Detected.					
$	25 Dibromofluoromethane	111	6.633	6.643	(1.033)	45778	61.6498	51.964(Q)
	27 1,1,1-Trichloroethane	97	Compound Not Detected.					
	29 1,1-Dichloropropene	75	Compound Not Detected.					
	30 Carbon Tetrachloride	117	Compound Not Detected.					
$	31 d4-1,2-Dichloroethane	65	7.095	7.105	(1.105)	41980	61.0336	51.444
	32 1,2-Dichloroethane	62	Compound Not Detected.					
	33 Benzene	78	Compound Not Detected.					
*	34 1,4-Difluorobenzene	114	7.427	7.437	(1.000)	109224	50.0000	
	35 Trichloroethene	95	Compound Not Detected.					
	36 1,2-Dichloropropane	63	Compound Not Detected.					
	37 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	8.975	8.975	(1.208)	107636	43.5932	36.744
	44 Toluene	92	9.055	9.065	(1.219)	1301	0.66466	0.5602
	45 Trans 1,3-Dichloropropene	75	Compound Not Detected.					
	46 2-Hexanone	43	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	10.573	10.573	(1.000)	79551	50.0000	
	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.					
	59 Isopropyl Benzene	105	Compound Not Detected.					
	60 Bromoform	173	Compound Not Detected.					
	61 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
$	62 4-Bromofluorobenzene	95	11.889	11.899	(1.125)	28416	34.7998	29.332
	63 1,2,3-Trichloropropane	110	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
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.					
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	13.246	13.256	(1.000)	21244	50.0000	
77	1,4-Dichlorobenzene	146	Compound Not Detected.					
78	N-Butyl Benzene	91	Compound Not Detected.					
$ 79	d4-1,2-Dichlorobenzene	152	13.698	13.698	(1.034)	16794	44.5127	37.519
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: finn5.i
Lab File ID: SS83H.d
Lab Smp Id: SS83H
Analysis Type: VOA
Quant Type: ISTD
Operator: PB
Method File: /chem1/finn5.i/21APR11.b/s8260b.m
Misc Info: 11-8718

Calibration Date: 21-APR-2011
Calibration Time: 08:45
Client Smp ID: DMA-TP4-0-1.5-04201
Level: LOW
Sample Type: Soil

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	
23 Pentafluorobenzen	91022	45511	182044	62469	-31.37	
34 1,4-Difluorobenze	153104	76552	306208	109224	-28.66	
52 d5-Chlorobenzene	143720	71860	287440	79551	-44.65	
76 d4-1,4-Dichlorobe	77398	38699	154796	21244	-72.55	<--

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF	
23 Pentafluorobenzen	6.43	5.93	6.93	6.42	-0.16	
34 1,4-Difluorobenze	7.44	6.94	7.94	7.43	-0.14	
52 d5-Chlorobenzene	10.57	10.07	11.07	10.57	0.00	
76 d4-1,4-Dichlorobe	13.26	12.76	13.76	13.25	-0.08	

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: SOLID
Lab Smp Id: SS83H
Level: LOW
Data Type: MS DATA
SpikeList File: all.spk
Sublist File: voa.sub
Method File: /chem1/finn5.i/21APR11.b/s8260b.m
Misc Info: 11-8718

Client SDG: SS83
Fraction: VOA
Client Smp ID: DMA-TP4-0-1.5-04201
Operator: PB
SampleType: SAMPLE
Quant Type: ISTD

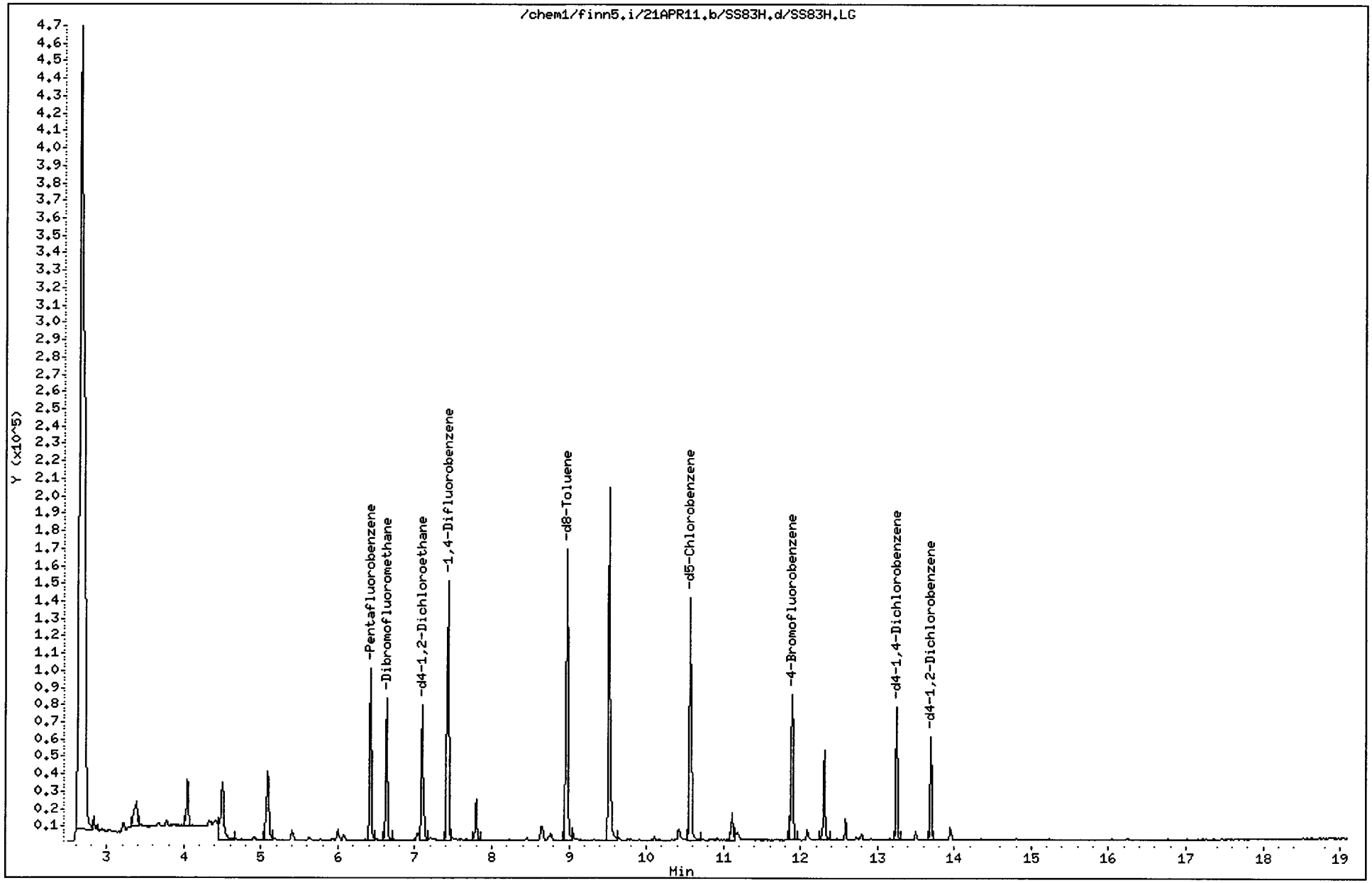
SURROGATE COMPOUND	AMOUNT ADDED ug/Kg	AMOUNT RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 25 Dibromofluorometha	50.000	61.650	123.30	30-160
$ 31 d4-1,2-Dichloroeth	50.000	61.034	122.07	75-152
$ 43 d8-Toluene	50.000	43.593	87.19	82-115
$ 62 4-Bromofluorobenze	50.000	34.800	69.60	64-120
$ 79 d4-1,2-Dichloroben	50.000	44.513	89.03	80-120

Data File: /chem1/finn5.i/21APR11.b/SS83H.d
Date : 21-APR-2011 14:20
Client ID: DMA-TP4-0-1.5-04201
Sample Info: SS83H,5,5.932,0

Instrument: finn5.i

Operator: PB
Column diameter: 0.18

Column phase: Rtx502.2



CO-ELUTION SUMMARY FOR FILE - SS83H.d

Lab ID: SS83H, Method: s8260b.m, Instrument: finn5.i, Date: 21-APR-2011

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Analytical Resources, Inc.

8260C

Data file : /chem1/finn5.i/21APR11.b/SS83I.d
Lab Smp Id: SS83I Client Smp ID: DMA-TP4-1.5-2-04201
Inj Date : 21-APR-2011 14:48
Operator : PB Inst ID: finn5.i
Smp Info : SS83I,5,9.454,0
Misc Info : 11-8719
Comment :
Method : /chem1/finn5.i/21APR11.b/s8260b.m
Meth Date : 25-Apr-2011 16:10 patrickb Quant Type: ISTD
Cal Date : 09-MAR-2011 13:53 Cal File: 2000309.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

12/25/14

Concentration Formula: Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	9.45400	Sample Amount
M	0.00000	Moisture (%)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
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.					
7 Acrolein	56	Compound Not Detected.					
8 112Trichloro122Trifluoroethane	101	Compound Not Detected.					
9 Acetone	43	4.502	4.502	(0.701)	10262	31.4962	16.658
10 1,1-Dichloroethene	96	Compound Not Detected.					
11 Bromoethane	108	Compound Not Detected.					
12 Iodomethane	142	Compound Not Detected.					
13 Methylene Chloride	84	5.075	5.085	(0.790)	18091	19.1820	10.145
14 Acrylonitrile	53	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
	16 Methyl tert-Butyl Ether	73	Compound Not Detected.					
	15 Carbon Disulfide	76	Compound Not Detected.					
	17 Trans-1,2-Dichloroethene	96	Compound Not Detected.					
	18 Vinyl Acetate	43	Compound Not Detected.					
	19 1,1-Dichloroethane	63	Compound Not Detected.					
	20 2-Butanone	43	Compound Not Detected.					
	21 2,2-Dichloropropane	77	Compound Not Detected.					
	22 Cis-1,2-Dichloroethene	96	Compound Not Detected.					
*	23 Pentafluorobenzene	168	6.422	6.432	(1.000)	71412	50.0000	
	24 Chloroform	83	Compound Not Detected.					
	26 Bromochloromethane	128	Compound Not Detected.					
$	25 Dibromofluoromethane	111	6.633	6.643	(1.033)	48091	56.6542	29.963(Q)
	27 1,1,1-Trichloroethane	97	Compound Not Detected.					
	29 1,1-Dichloropropene	75	Compound Not Detected.					
	30 Carbon Tetrachloride	117	Compound Not Detected.					
$	31 d4-1,2-Dichloroethane	65	7.095	7.105	(1.105)	48836	62.1098	32.848
	32 1,2-Dichloroethane	62	Compound Not Detected.					
	33 Benzene	78	Compound Not Detected.					
*	34 1,4-Difluorobenzene	114	7.427	7.437	(1.000)	125409	50.0000	
	35 Trichloroethene	95	Compound Not Detected.					
	36 1,2-Dichloropropane	63	Compound Not Detected.					
	37 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	8.975	8.975	(1.208)	134535	47.4554	25.098
	44 Toluene	92	9.055	9.065	(1.219)	1266	0.56331	0.2979
	45 Trans 1,3-Dichloropropene	75	Compound Not Detected.					
	46 2-Hexanone	43	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	10.573	10.573	(1.000)	120700	50.0000	
	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.					
	59 Isopropyl Benzene	105	Compound Not Detected.					
	60 Bromoform	173	Compound Not Detected.					
	61 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
$	62 4-Bromofluorobenzene	95	11.889	11.899	(1.125)	55637	44.9072	23.750
	63 1,2,3-Trichloropropane	110	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
	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.					
	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	13.256	13.256	(1.000)	58007	50.0000	
	77 1,4-Dichlorobenzene	146	Compound Not Detected.					
	78 N-Butyl Benzene	91	Compound Not Detected.					
$	79 d4-1,2-Dichlorobenzene	152	13.698	13.698	(1.033)	52548	51.0084	26.977
	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: finn5.i
Lab File ID: SS83I.d
Lab Smp Id: SS83I
Analysis Type: VOA
Quant Type: ISTD
Operator: PB
Method File: /chem1/finn5.i/21APR11.b/s8260b.m
Misc Info: 11-8719

Calibration Date: 21-APR-2011
Calibration Time: 08:45
Client Smp ID: DMA-TP4-1.5-2-04201
Level: LOW
Sample Type: Soil

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
23 Pentafluorobenzen	91022	45511	182044	71412	-21.54
34 1,4-Difluorobenze	153104	76552	306208	125409	-18.09
52 d5-Chlorobenzene	143720	71860	287440	120700	-16.02
76 d4-1,4-Dichlorobe	77398	38699	154796	58007	-25.05

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	6.43	5.93	6.93	6.42	-0.16
34 1,4-Difluorobenze	7.44	6.94	7.94	7.43	-0.14
52 d5-Chlorobenzene	10.57	10.07	11.07	10.57	0.00
76 d4-1,4-Dichlorobe	13.26	12.76	13.76	13.26	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: SOLID
Lab Smp Id: SS83I
Level: LOW
Data Type: MS DATA
SpikeList File: all.spk
Sublist File: voa.sub
Method File: /chem1/finn5.i/21APR11.b/s8260b.m
Misc Info: 11-8719

Client SDG: SS83
Fraction: VOA
Client Smp ID: DMA-TP4-1.5-2-04201
Operator: PB
SampleType: SAMPLE
Quant Type: ISTD

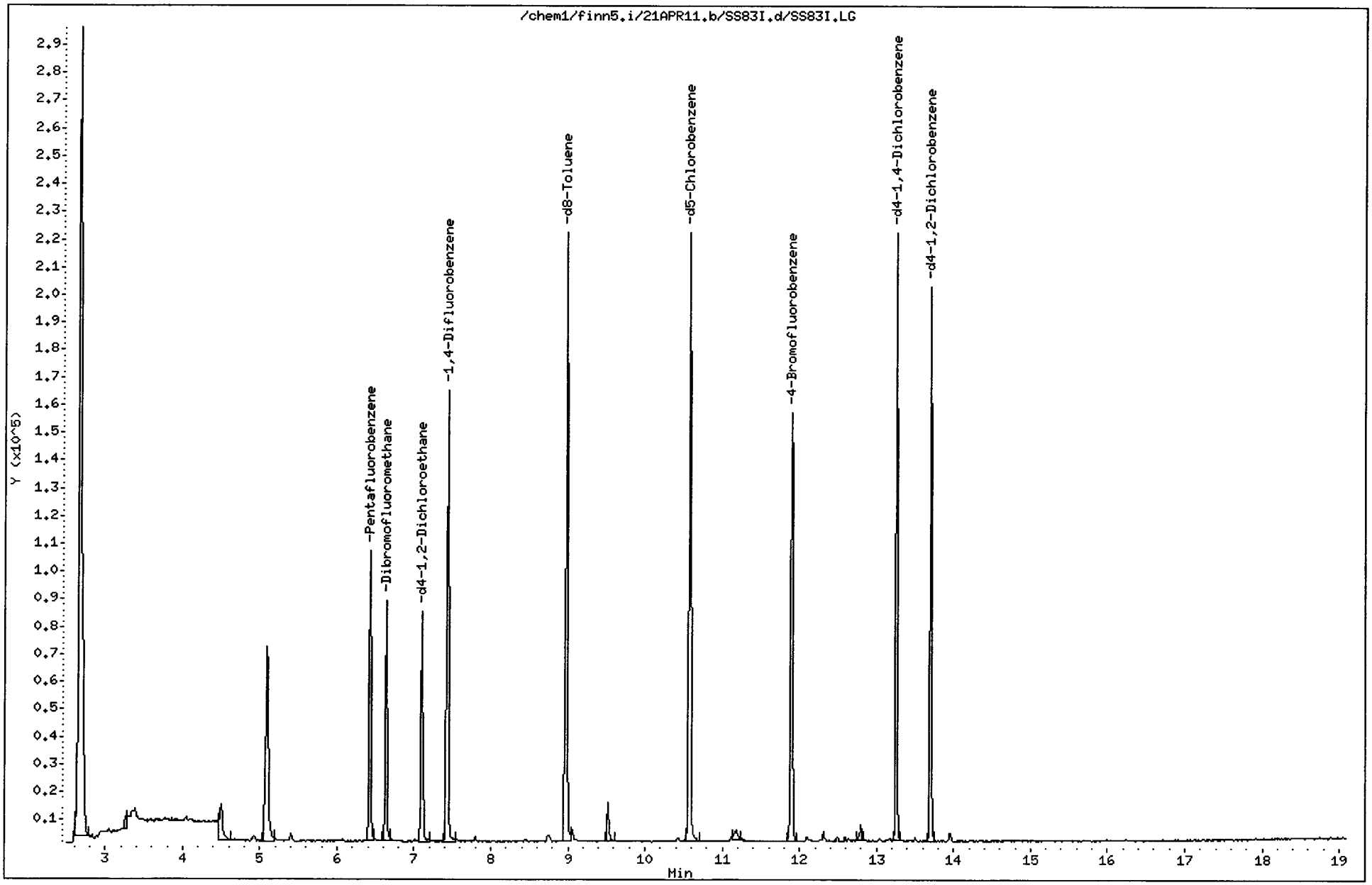
SURROGATE COMPOUND	AMOUNT ADDED ug/Kg	AMOUNT RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 25 Dibromofluorometha	50.000	56.654	113.31	30-160
$ 31 d4-1,2-Dichloroeth	50.000	62.110	124.22	75-152
$ 43 d8-Toluene	50.000	47.455	94.91	82-115
$ 62 4-Bromofluorobenze	50.000	44.907	89.81	64-120
$ 79 d4-1,2-Dichloroben	50.000	51.008	102.02	80-120

Data File: /chem1/finn5.i/21APR11.b/SS83I.d
Date : 21-APR-2011 14:48
Client ID: DMA-TP4-1.5-2-04201
Sample Info: SS83I,5,9.454,0

Instrument: finn5.i

Operator: PB
Column diameter: 0.18

Column phase: Rtx502.2



CO-ELUTION SUMMARY FOR FILE - SS83I.d

Lab ID: SS83I, Method: s8260b.m, Instrument: finn5.i, Date: 21-APR-2011

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Analytical Resources, Inc.

8260C

Data file : /chem1/finn5.i/21APR11.b/SS83J.d
Lab Smp Id: SS83J Client Smp ID: DMA-TP5-1.5-2-04201
Inj Date : 21-APR-2011 15:16
Operator : PB Inst ID: finn5.i
Smp Info : SS83J,5,6.505,0
Misc Info : 11-8720
Comment :
Method : /chem1/finn5.i/21APR11.b/s8260b.m
Meth Date : 25-Apr-2011 16:10 patrickb Quant Type: ISTD
Cal Date : 09-MAR-2011 13:53 Cal File: 2000309.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	6.50500	Sample Amount
M	0.00000	Moisture (%)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
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.					
7 Acrolein	56	Compound Not Detected.					
8 112Trichloro122Trifluoroethane	101	Compound Not Detected.					
9 Acetone	43	4.492	4.502	(0.700)	119516	371.618	285.64
10 1,1-Dichloroethene	96	Compound Not Detected.					
11 Bromoethane	108	Compound Not Detected.					
12 Iodomethane	142	Compound Not Detected.					
13 Methylene Chloride	84	5.075	5.085	(0.790)	6401	6.87579	5.285
14 Acrylonitrile	53	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
	16 Methyl tert-Butyl Ether	73	Compound Not Detected.					
	15 Carbon Disulfide	76	5.176	5.176	(0.806)	2130	0.72286	0.5556(Q)
	17 Trans-1,2-Dichloroethene	96	Compound Not Detected.					
	18 Vinyl Acetate	43	Compound Not Detected.					
	19 1,1-Dichloroethane	63	Compound Not Detected.					
	20 2-Butanone	43	6.080	6.090	(0.947)	38143	82.1351	63.132
	21 2,2-Dichloropropane	77	Compound Not Detected.					
	22 Cis-1,2-Dichloroethene	96	Compound Not Detected.					
*	23 Pentafluorobenzene	168	6.422	6.432	(1.000)	70490	50.0000	
	24 Chloroform	83	Compound Not Detected.					
	26 Bromochloromethane	128	Compound Not Detected.					
$	25 Dibromofluoromethane	111	6.633	6.643	(1.033)	48566	57.9621	44.552(Q)
	27 1,1,1-Trichloroethane	97	Compound Not Detected.					
	29 1,1-Dichloropropene	75	Compound Not Detected.					
	30 Carbon Tetrachloride	117	Compound Not Detected.					
$	31 d4-1,2-Dichloroethane	65	7.095	7.105	(1.105)	48673	62.7122	48.203
	32 1,2-Dichloroethane	62	Compound Not Detected.					
	33 Benzene	78	Compound Not Detected.					
*	34 1,4-Difluorobenzene	114	7.427	7.437	(1.000)	121814	50.0000	
	35 Trichloroethene	95	Compound Not Detected.					
	36 1,2-Dichloropropane	63	Compound Not Detected.					
	37 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	8.975	8.975	(1.208)	123487	44.8439	34.469
	44 Toluene	92	9.065	9.065	(1.221)	1336715	612.323	470.66(Q)
	45 Trans 1,3-Dichloropropene	75	Compound Not Detected.					
	46 2-Hexanone	43	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	10.573	10.573	(1.000)	114711	50.0000	
	53 Chlorobenzene	112	Compound Not Detected.					
	54 Ethyl Benzene	91	10.643	10.653	(1.007)	21676	5.95178	4.575
	55 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
	56 m,p-xylene	106	10.723	10.733	(1.014)	904	0.61160	0.4701(Q)
	57 o-Xylene	106	Compound Not Detected.					
	58 Styrene	104	Compound Not Detected.					
	59 Isopropyl Benzene	105	Compound Not Detected.					
	60 Bromoform	173	Compound Not Detected.					
	61 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
$	62 4-Bromofluorobenzene	95	11.889	11.899	(1.125)	48246	40.9747	31.495
	63 1,2,3-Trichloropropane	110	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
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.					
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	13.246	13.256	(1.000)	43569	50.0000	
77	1,4-Dichlorobenzene	146	Compound Not Detected.					
78	N-Butyl Benzene	91	Compound Not Detected.					
$ 79	d4-1,2-Dichlorobenzene	152	13.688	13.698	(1.033)	35472	45.8431	35.237
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: finn5.i
Lab File ID: SS83J.d
Lab Smp Id: SS83J
Analysis Type: VOA
Quant Type: ISTD
Operator: PB
Method File: /chem1/finn5.i/21APR11.b/s8260b.m
Misc Info: 11-8720

Calibration Date: 21-APR-2011
Calibration Time: 08:45
Client Smp ID: DMA-TP5-1.5-2-04201
Level: LOW
Sample Type: Soil

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
23 Pentafluorobenzen	91022	45511	182044	70490	-22.56
34 1,4-Difluorobenze	153104	76552	306208	121814	-20.44
52 d5-Chlorobenzene	143720	71860	287440	114711	-20.18
76 d4-1,4-Dichlorobe	77398	38699	154796	43569	-43.71

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	6.43	5.93	6.93	6.42	-0.16
34 1,4-Difluorobenze	7.44	6.94	7.94	7.43	-0.14
52 d5-Chlorobenzene	10.57	10.07	11.07	10.57	0.00
76 d4-1,4-Dichlorobe	13.26	12.76	13.76	13.25	-0.08

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: SOLID
Lab Smp Id: SS83J
Level: LOW
Data Type: MS DATA
SpikeList File: all.spk
Sublist File: voa.sub
Method File: /chem1/finn5.i/21APR11.b/s8260b.m
Misc Info: 11-8720

Client SDG: SS83
Fraction: VOA
Client Smp ID: DMA-TP5-1.5-2-04201
Operator: PB
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	AMOUNT ADDED ug/Kg	AMOUNT RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 25 Dibromofluorometha	50.000	57.962	115.92	30-160
$ 31 d4-1,2-Dichloroeth	50.000	62.712	125.42	75-152
$ 43 d8-Toluene	50.000	44.844	89.69	82-115
$ 62 4-Bromofluorobenze	50.000	40.975	81.95	64-120
$ 79 d4-1,2-Dichloroben	50.000	45.843	91.69	80-120

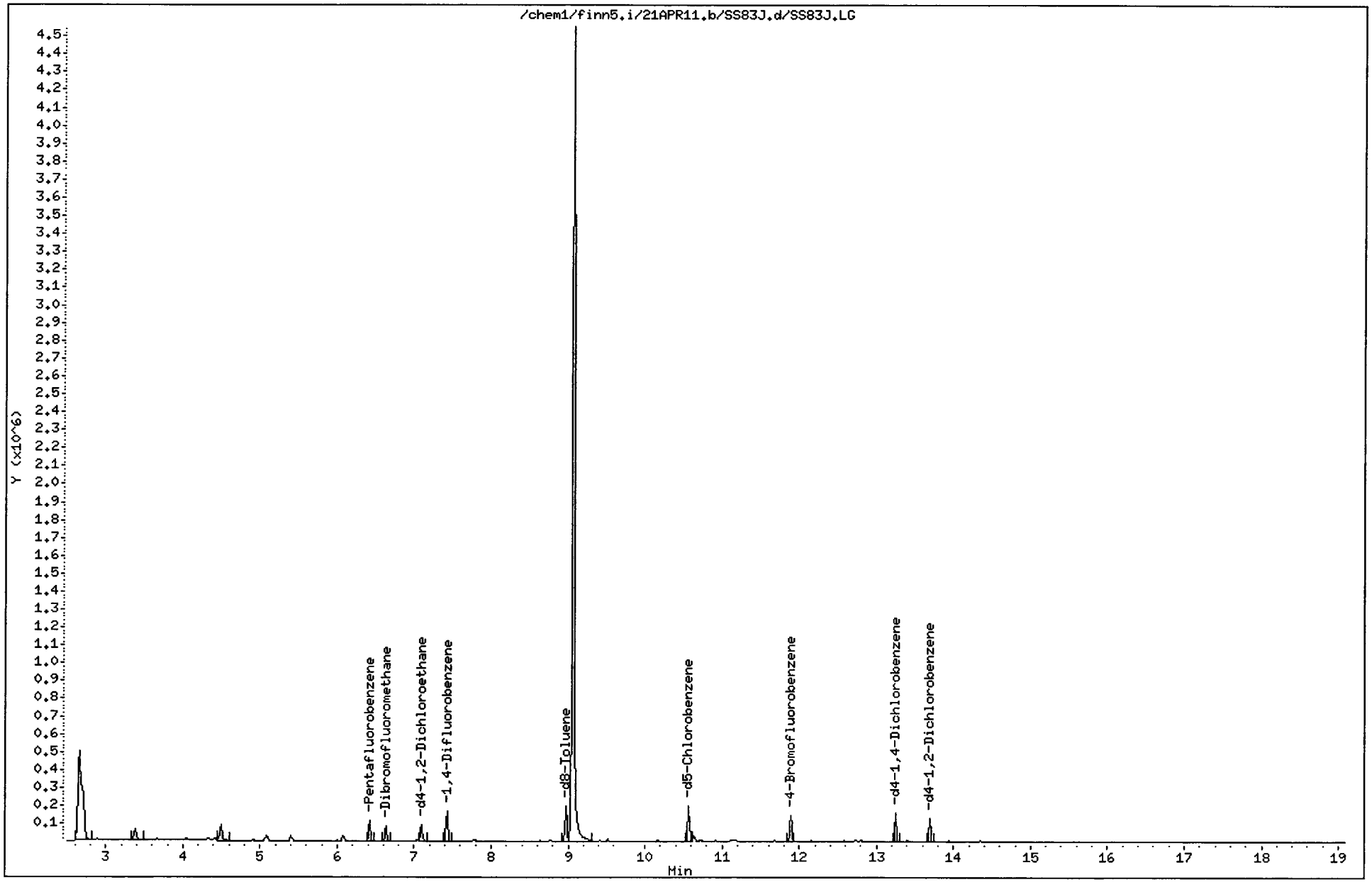
Data File: /chem1/finn5.i/21APR11.b/SS83J.d
Date : 21-APR-2011 15:16
Client ID: DMA-TP5-1.5-2-04201
Sample Info: SS83J,5,6.505,0

Instrument: finn5.i
Operator: PB
Column diameter: 0.18

Column phase: Rtx502.2

SS83:SS528

/chem1/finn5.i/21APR11.b/SS83J.d/SS83J.LG



CO-ELUTION SUMMARY FOR FILE - SS83J.d

Lab ID: SS83J, Method: s8260b.m, Instrument: finn5.i, Date: 21-APR-2011

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Analytical Resources, Inc.

8260C

Data file : /chem1/finn5.i/21APR11.b/SS83K.d
Lab Smp Id: SS83K Client Smp ID: DMA-TP5-1.5-2-04201
Inj Date : 21-APR-2011 15:44
Operator : PB Inst ID: finn5.i
Smp Info : SS83K,5,6.340,0
Misc Info : 11-8721
Comment :
Method : /chem1/finn5.i/21APR11.b/s8260b.m
Meth Date : 25-Apr-2011 16:10 patrickb Quant Type: ISTD
Cal Date : 09-MAR-2011 13:53 Cal File: 2000309.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	6.34000	Sample Amount
M	0.00000	Moisture (%)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
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.					
7 Acrolein	56	Compound Not Detected.					
8 112Trichloro122Trifluoroethane	101	Compound Not Detected.					
9 Acetone	43	4.512	4.502	(0.700)	125220	422.096	332.88
10 1,1-Dichloroethene	96	Compound Not Detected.					
11 Bromoethane	108	Compound Not Detected.					
12 Iodomethane	142	Compound Not Detected.					
13 Methylene Chloride	84	5.095	5.085	(0.791)	11901	13.8588	10.930
14 Acrylonitrile	53	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
	16 Methyl tert-Butyl Ether	73	Compound Not Detected.					
	15 Carbon Disulfide	76	5.196	5.176	(0.807)	2136	0.78586	0.6198(Q)
	17 Trans-1,2-Dichloroethene	96	Compound Not Detected.					
	18 Vinyl Acetate	43	Compound Not Detected.					
	19 1,1-Dichloroethane	63	Compound Not Detected.					
	20 2-Butanone	43	6.100	6.090	(0.947)	39793	92.8941	73.260
	21 2,2-Dichloropropane	77	Compound Not Detected.					
	22 Cis-1,2-Dichloroethene	96	Compound Not Detected.					
*	23 Pentafluorobenzene	168	6.442	6.432	(1.000)	65022	50.0000	
	24 Chloroform	83	Compound Not Detected.					
	26 Bromochloromethane	128	Compound Not Detected.					
$	25 Dibromofluoromethane	111	6.653	6.643	(1.033)	46008	59.5268	46.945(Q)
	27 1,1,1-Trichloroethane	97	Compound Not Detected.					
	29 1,1-Dichloropropene	75	Compound Not Detected.					
	30 Carbon Tetrachloride	117	Compound Not Detected.					
$	31 d4-1,2-Dichloroethane	65	7.115	7.105	(1.105)	46667	65.1840	51.407
	32 1,2-Dichloroethane	62	Compound Not Detected.					
	33 Benzene	78	Compound Not Detected.					
*	34 1,4-Difluorobenzene	114	7.447	7.437	(1.000)	113607	50.0000	
	35 Trichloroethene	95	Compound Not Detected.					
	36 1,2-Dichloropropane	63	Compound Not Detected.					
	37 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	8.985	8.975	(1.206)	118432	46.1151	36.368
	44 Toluene	92	9.075	9.065	(1.219)	1253376	615.624	485.51(Q)
	45 Trans 1,3-Dichloropropene	75	Compound Not Detected.					
	46 2-Hexanone	43	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	10.583	10.573	(1.000)	110122	50.0000	
	53 Chlorobenzene	112	Compound Not Detected.					
	54 Ethyl Benzene	91	10.663	10.653	(1.008)	19923	5.69841	4.494
	55 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
	56 m,p-xylene	106	10.743	10.733	(1.015)	879	0.61947	0.4885
	57 o-Xylene	106	Compound Not Detected.					
	58 Styrene	104	Compound Not Detected.					
	59 Isopropyl Benzene	105	Compound Not Detected.					
	60 Bromoform	173	Compound Not Detected.					
	61 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
$	62 4-Bromofluorobenzene	95	11.909	11.899	(1.125)	47073	41.6445	32.843
	63 1,2,3-Trichloropropane	110	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
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.					
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	13.266	13.256	(1.000)	43558	50.0000	
77	1,4-Dichlorobenzene	146	Compound Not Detected.					
78	N-Butyl Benzene	91	Compound Not Detected.					
$ 79	d4-1,2-Dichlorobenzene	152	13.708	13.698	(1.033)	36634	47.3568	37.348
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: finn5.i
Lab File ID: SS83K.d
Lab Smp Id: SS83K
Analysis Type: VOA
Quant Type: ISTD
Operator: PB
Method File: /chem1/finn5.i/21APR11.b/s8260b.m
Misc Info: 11-8721

Calibration Date: 21-APR-2011
Calibration Time: 08:45
Client Smp ID: DMA-TP5-1.5-2-04201
Level: LOW
Sample Type: Soil

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
23 Pentafluorobenzen	91022	45511	182044	65022	-28.56
34 1,4-Difluorobenze	153104	76552	306208	113607	-25.80
52 d5-Chlorobenzene	143720	71860	287440	110122	-23.38
76 d4-1,4-Dichlorobe	77398	38699	154796	43558	-43.72

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	6.43	5.93	6.93	6.44	0.16
34 1,4-Difluorobenze	7.44	6.94	7.94	7.45	0.14
52 d5-Chlorobenzene	10.57	10.07	11.07	10.58	0.10
76 d4-1,4-Dichlorobe	13.26	12.76	13.76	13.27	0.08

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: SOLID
Lab Smp Id: SS83K
Level: LOW
Data Type: MS DATA
SpikeList File: all.spk
Sublist File: voa.sub
Method File: /chem1/finn5.i/21APR11.b/s8260b.m
Misc Info: 11-8721

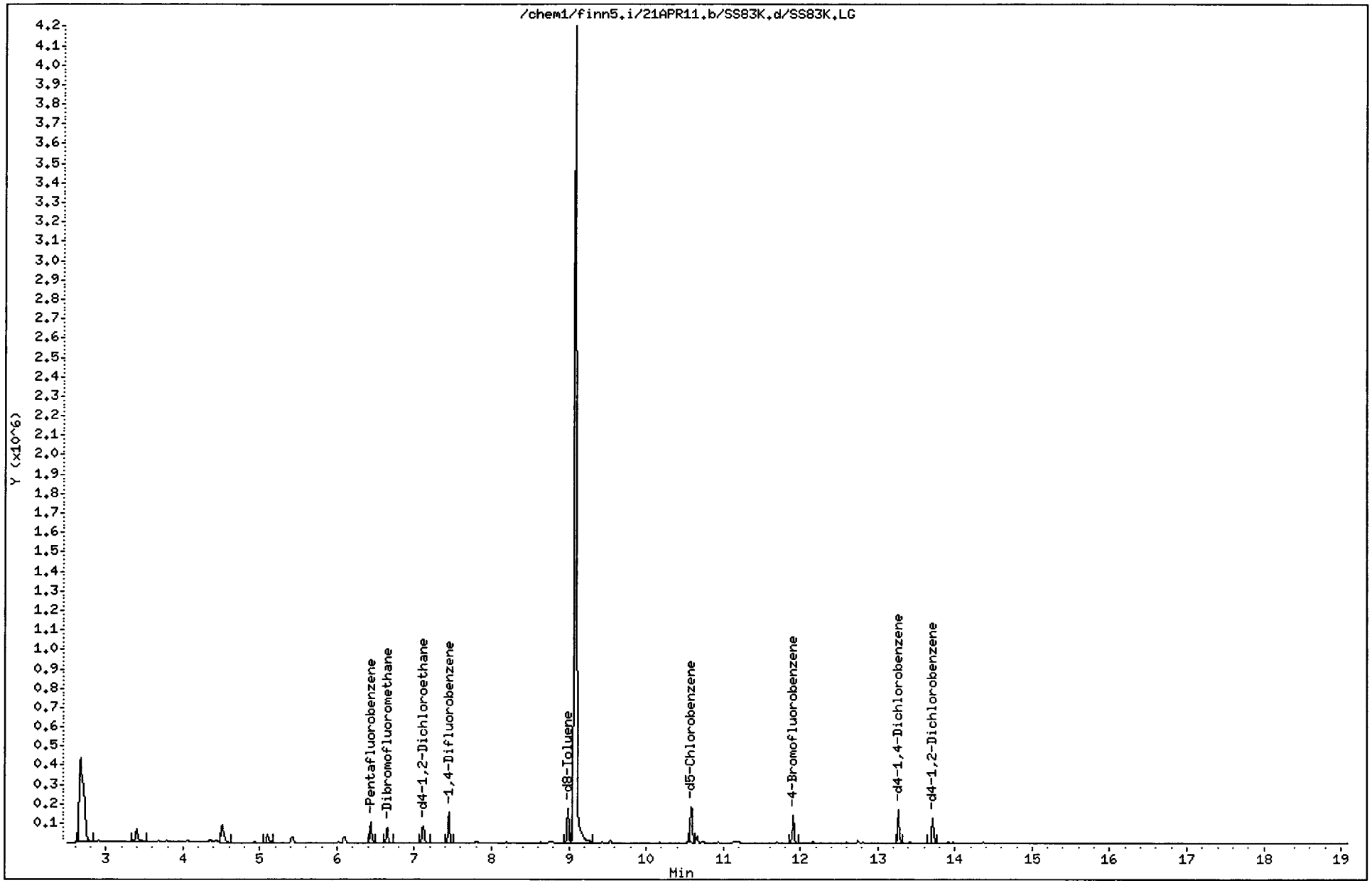
Client SDG: SS83
Fraction: VOA
Client Smp ID: DMA-TP5-1.5-2-04201
Operator: PB
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	AMOUNT ADDED ug/Kg	AMOUNT RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 25 Dibromofluorometha	50.000	59.527	119.05	30-160
$ 31 d4-1,2-Dichloroeth	50.000	65.184	130.37	75-152
$ 43 d8-Toluene	50.000	46.115	92.23	82-115
$ 62 4-Bromofluorobenze	50.000	41.644	83.29	64-120
$ 79 d4-1,2-Dichloroben	50.000	47.357	94.71	80-120

Data File: /chem1/finn5.i/21APR11.b/SS83K.d
Date : 21-APR-2011 15:44
Client ID: DMA-TP5-1.5-2-04201
Sample Info: SS83K,5,6.340,0

Instrument: finn5.i
Operator: PB
Column diameter: 0.18

Column phase: Rtx502.2



CO-ELUTION SUMMARY FOR FILE - SS83K.d

Lab ID: SS83K, Method: s8260b.m, Instrument: finn5.i, Date: 21-APR-2011

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Analytical Resources, Inc.

8260C

Data file : /chem1/finn5.i/21APR11.b/SS83L.d
Lab Smp Id: SS83L Client Smp ID: DMA-TP5-2-3-042011
Inj Date : 21-APR-2011 16:12
Operator : PB Inst ID: finn5.i
Smp Info : SS83L,5,8.554,0
Misc Info : 11-8722
Comment :
Method : /chem1/finn5.i/21APR11.b/s8260b.m
Meth Date : 25-Apr-2011 16:10 patrickb Quant Type: ISTD
Cal Date : 09-MAR-2011 13:53 Cal File: 2000309.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	8.55400	Sample Amount
M	0.00000	Moisture (%)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
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.					
7 Acrolein	56	Compound Not Detected.					
8 112Trichloro122Trifluoroethane	101	Compound Not Detected.					
9 Acetone	43	4.512	4.502	(0.700)	10203	34.6098	20.230
10 1,1-Dichloroethene	96	Compound Not Detected.					
11 Bromoethane	108	Compound Not Detected.					
12 Iodomethane	142	Compound Not Detected.					
13 Methylene Chloride	84	5.095	5.085	(0.791)	17146	20.0927	11.745
14 Acrylonitrile	53	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
	16 Methyl tert-Butyl Ether	73	Compound Not Detected.					
	15 Carbon Disulfide	76	Compound Not Detected.					
	17 Trans-1,2-Dichloroethene	96	Compound Not Detected.					
	18 Vinyl Acetate	43	Compound Not Detected.					
	19 1,1-Dichloroethane	63	Compound Not Detected.					
	20 2-Butanone	43	Compound Not Detected.					
	21 2,2-Dichloropropane	77	Compound Not Detected.					
	22 Cis-1,2-Dichloroethene	96	Compound Not Detected.					
*	23 Pentafluorobenzene	168	6.442	6.432	(1.000)	64614	50.0000	
	24 Chloroform	83	Compound Not Detected.					
	26 Bromochloromethane	128	Compound Not Detected.					
$	25 Dibromofluoromethane	111	6.653	6.643	(1.033)	45853	59.7008	34.896(Q)
	27 1,1,1-Trichloroethane	97	Compound Not Detected.					
	29 1,1-Dichloropropene	75	Compound Not Detected.					
	30 Carbon Tetrachloride	117	Compound Not Detected.					
$	31 d4-1,2-Dichloroethane	65	7.115	7.105	(1.105)	44964	63.2018	36.943
	32 1,2-Dichloroethane	62	Compound Not Detected.					
	33 Benzene	78	Compound Not Detected.					
*	34 1,4-Difluorobenzene	114	7.447	7.437	(1.000)	113942	50.0000	
	35 Trichloroethene	95	Compound Not Detected.					
	36 1,2-Dichloropropane	63	Compound Not Detected.					
	37 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	8.985	8.975	(1.206)	128028	49.7050	29.054
	44 Toluene	92	9.065	9.065	(1.217)	4663	2.28360	1.335
	45 Trans 1,3-Dichloropropene	75	Compound Not Detected.					
	46 2-Hexanone	43	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	10.583	10.573	(1.000)	114907	50.0000	
	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.					
	59 Isopropyl Benzene	105	Compound Not Detected.					
	60 Bromoform	173	Compound Not Detected.					
	61 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
$	62 4-Bromofluorobenzene	95	11.909	11.899	(1.125)	54949	46.5879	27.232
	63 1,2,3-Trichloropropane	110	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
	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.					
	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	13.266	13.256	(1.000)	61035	50.0000	
	77 1,4-Dichlorobenzene	146	Compound Not Detected.					
	78 N-Butyl Benzene	91	Compound Not Detected.					
$	79 d4-1,2-Dichlorobenzene	152	13.708	13.698	(1.033)	55574	51.2694	29.968
	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: finn5.i
Lab File ID: SS83L.d
Lab Smp Id: SS83L
Analysis Type: VOA
Quant Type: ISTD
Operator: PB
Method File: /chem1/finn5.i/21APR11.b/s8260b.m
Misc Info: 11-8722

Calibration Date: 21-APR-2011
Calibration Time: 08:45
Client Smp ID: DMA-TP5-2-3-042011
Level: LOW
Sample Type: Soil

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
23 Pentafluorobenzen	91022	45511	182044	64614	-29.01
34 1,4-Difluorobenze	153104	76552	306208	113942	-25.58
52 d5-Chlorobenzene	143720	71860	287440	114907	-20.05
76 d4-1,4-Dichlorobe	77398	38699	154796	61035	-21.14

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	6.43	5.93	6.93	6.44	0.16
34 1,4-Difluorobenze	7.44	6.94	7.94	7.45	0.14
52 d5-Chlorobenzene	10.57	10.07	11.07	10.58	0.10
76 d4-1,4-Dichlorobe	13.26	12.76	13.76	13.27	0.08

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: SOLID
Lab Smp Id: SS83L
Level: LOW
Data Type: MS DATA
SpikeList File: all.spk
Sublist File: voa.sub
Method File: /chem1/finn5.i/21APR11.b/s8260b.m
Misc Info: 11-8722

Client SDG: SS83
Fraction: VOA
Client Smp ID: DMA-TP5-2-3-042011
Operator: PB
SampleType: SAMPLE
Quant Type: ISTD

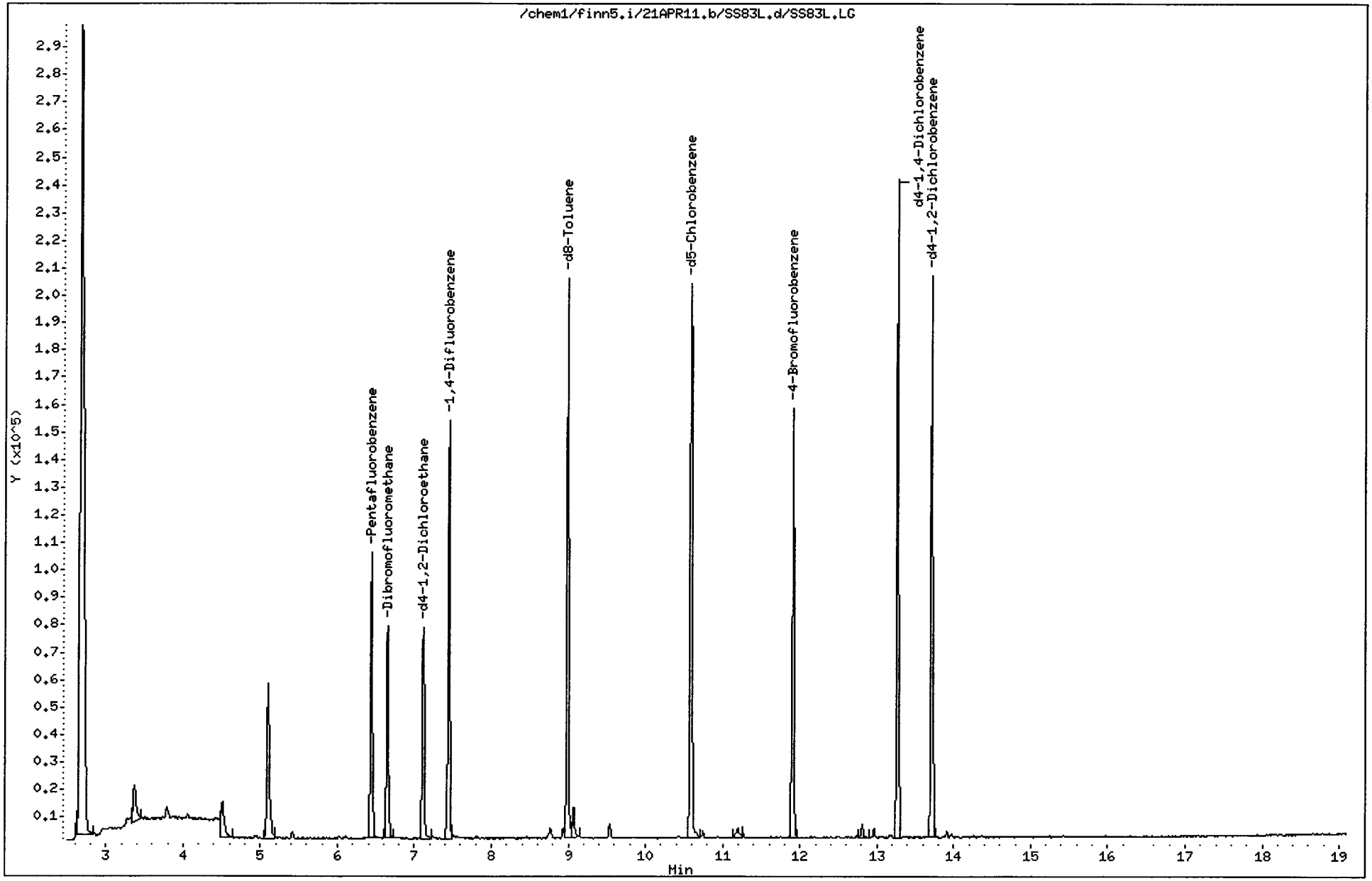
SURROGATE COMPOUND	AMOUNT ADDED ug/Kg	AMOUNT RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 25 Dibromofluorometha	50.000	59.701	119.40	30-160
$ 31 d4-1,2-Dichloroeth	50.000	63.202	126.40	75-152
$ 43 d8-Toluene	50.000	49.705	99.41	82-115
$ 62 4-Bromofluorobenze	50.000	46.588	93.18	64-120
$ 79 d4-1,2-Dichloroben	50.000	51.269	102.54	80-120

Data File: /chem1/finn5.i/21APR11.b/SS83L.d
Date : 21-APR-2011 16:12
Client ID: DMA-TP5-2-3-042011
Sample Info: SS83L,5,8.554,0

Instrument: finn5.i

Operator: PB
Column diameter: 0.18

Column phase: Rtx502.2



CO-ELUTION SUMMARY FOR FILE - SS83L.d

Lab ID: SS83L, Method: s8260b.m, Instrument: finn5.i, Date: 21-APR-2011

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Analytical Resources, Inc.

8260C

Data file : /chem1/finn5.i/21APR11.b/SS83M.d
Lab Smp Id: SS83M Client Smp ID: DMA-TP3-2-3-042011
Inj Date : 21-APR-2011 16:40
Operator : PB Inst ID: finn5.i
Smp Info : SS83M,5,9.009,0
Misc Info : 11-8723
Comment :
Method : /chem1/finn5.i/21APR11.b/s8260b.m
Meth Date : 25-Apr-2011 16:10 patrickb Quant Type: ISTD
Cal Date : 09-MAR-2011 13:53 Cal File: 2000309.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	9.00900	Sample Amount
M	0.00000	Moisture (%)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
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.					
7	Acrolein	56	Compound Not Detected.					
8	112Trichloro122Trifluoroethane	101	Compound Not Detected.					
9	Acetone	43	4.502	4.502	(0.700)	56631	185.266	102.82
10	1,1-Dichloroethene	96	Compound Not Detected.					
11	Bromoethane	108	Compound Not Detected.					
12	Iodomethane	142	Compound Not Detected.					
13	Methylene Chloride	84	5.085	5.085	(0.791)	7718	8.72272	4.841
14	Acrylonitrile	53	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
	16 Methyl tert-Butyl Ether	73	Compound Not Detected.					
	15 Carbon Disulfide	76	5.176	5.176	(0.805)	1927	0.68806	0.3819
	17 Trans-1,2-Dichloroethene	96	Compound Not Detected.					
	18 Vinyl Acetate	43	Compound Not Detected.					
	19 1,1-Dichloroethane	63	Compound Not Detected.					
	20 2-Butanone	43	6.090	6.090	(0.947)	17051	38.6310	21.440
	21 2,2-Dichloropropane	77	Compound Not Detected.					
	22 Cis-1,2-Dichloroethene	96	Compound Not Detected.					
*	23 Pentafluorobenzene	168	6.432	6.432	(1.000)	66997	50.0000	
	24 Chloroform	83	Compound Not Detected.					
	26 Bromochloromethane	128	Compound Not Detected.					
$	25 Dibromofluoromethane	111	6.643	6.643	(1.033)	47760	59.9720	33.284(Q)
	27 1,1,1-Trichloroethane	97	Compound Not Detected.					
	29 1,1-Dichloropropene	75	Compound Not Detected.					
	30 Carbon Tetrachloride	117	Compound Not Detected.					
$	31 d4-1,2-Dichloroethane	65	7.105	7.105	(1.105)	47477	64.3604	35.720
	32 1,2-Dichloroethane	62	Compound Not Detected.					
	33 Benzene	78	Compound Not Detected.					
*	34 1,4-Difluorobenzene	114	7.427	7.437	(1.000)	117618	50.0000	
	35 Trichloroethene	95	Compound Not Detected.					
	36 1,2-Dichloropropane	63	Compound Not Detected.					
	37 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	8.975	8.975	(1.208)	129802	48.8188	27.094
	44 Toluene	92	9.055	9.065	(1.219)	9674	4.58957	2.547
	45 Trans 1,3-Dichloropropene	75	Compound Not Detected.					
	46 2-Hexanone	43	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	10.573	10.573	(1.000)	119347	50.0000	
	53 Chlorobenzene	112	Compound Not Detected.					
	54 Ethyl Benzene	91	10.653	10.653	(1.008)	5162	1.36232	0.7561
	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.					
	59 Isopropyl Benzene	105	Compound Not Detected.					
	60 Bromoform	173	Compound Not Detected.					
	61 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
$	62 4-Bromofluorobenzene	95	11.899	11.899	(1.125)	56625	46.2228	25.654
	63 1,2,3-Trichloropropane	110	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
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.					
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	13.256	13.256	(1.000)	61802	50.0000	
77	1,4-Dichlorobenzene	146	Compound Not Detected.					
78	N-Butyl Benzene	91	Compound Not Detected.					
$ 79	d4-1,2-Dichlorobenzene	152	13.698	13.698	(1.033)	56072	51.0869	28.353
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: finn5.i
Lab File ID: SS83M.d
Lab Smp Id: SS83M
Analysis Type: VOA
Quant Type: ISTD
Operator: PB
Method File: /chem1/finn5.i/21APR11.b/s8260b.m
Misc Info: 11-8723

Calibration Date: 21-APR-2011
Calibration Time: 08:45
Client Smp ID: DMA-TP3-2-3-042011
Level: LOW
Sample Type: Soil

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
23 Pentafluorobenzen	91022	45511	182044	66997	-26.39
34 1,4-Difluorobenze	153104	76552	306208	117618	-23.18
52 d5-Chlorobenzene	143720	71860	287440	119347	-16.96
76 d4-1,4-Dichlorobe	77398	38699	154796	61802	-20.15

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	6.43	5.93	6.93	6.43	0.00
34 1,4-Difluorobenze	7.44	6.94	7.94	7.43	-0.14
52 d5-Chlorobenzene	10.57	10.07	11.07	10.57	0.00
76 d4-1,4-Dichlorobe	13.26	12.76	13.76	13.26	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: SOLID
Lab Smp Id: SS83M
Level: LOW
Data Type: MS DATA
SpikeList File: all.spk
Sublist File: voa.sub
Method File: /chem1/finn5.i/21APR11.b/s8260b.m
Misc Info: 11-8723

Client SDG: SS83
Fraction: VOA
Client Smp ID: DMA-TP3-2-3-042011
Operator: PB
SampleType: SAMPLE
Quant Type: ISTD

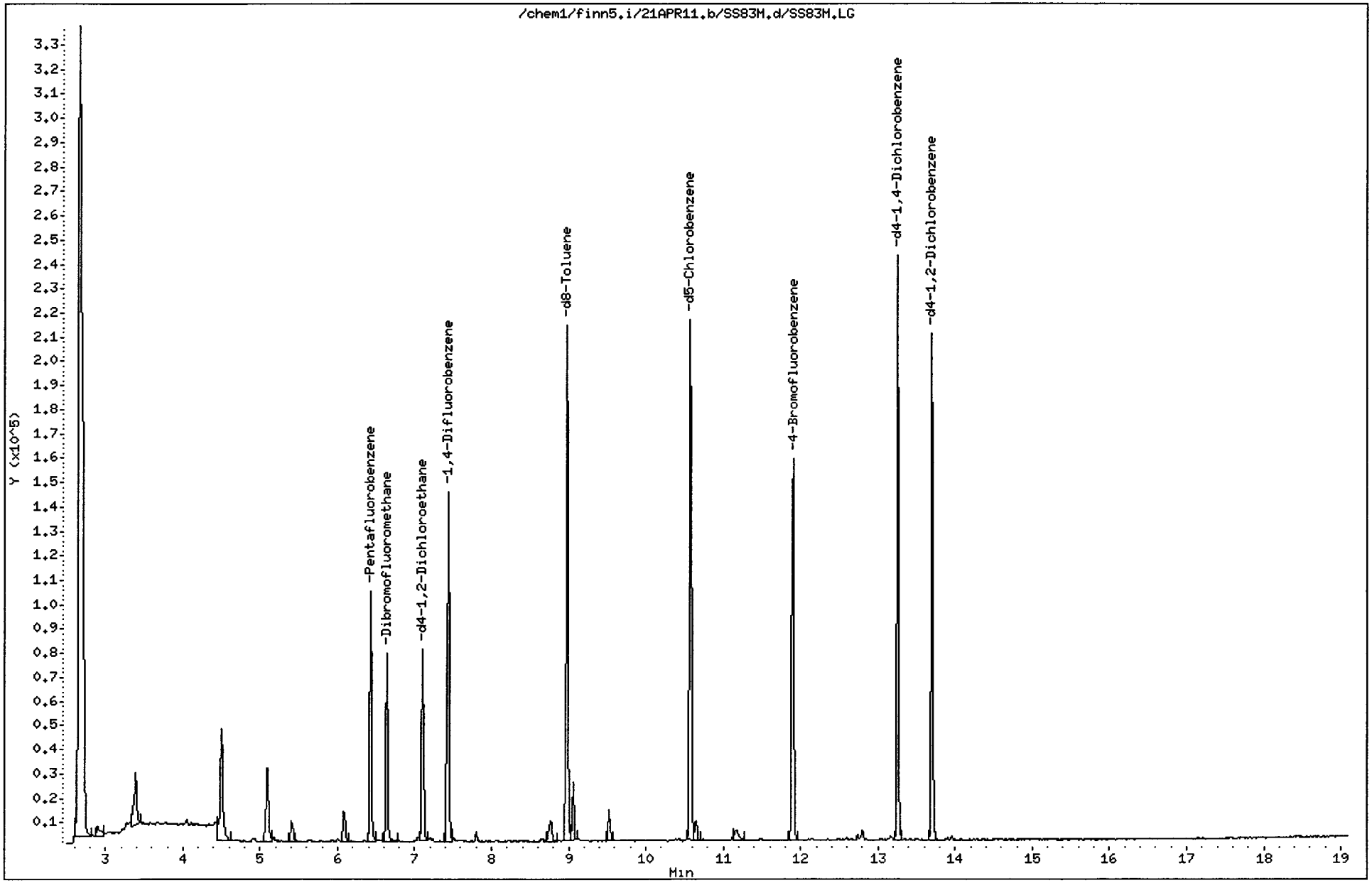
SURROGATE COMPOUND	AMOUNT ADDED ug/Kg	AMOUNT RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 25 Dibromofluorometha	50.000	59.972	119.94	30-160
$ 31 d4-1,2-Dichloroeth	50.000	64.360	128.72	75-152
$ 43 d8-Toluene	50.000	48.819	97.64	82-115
$ 62 4-Bromofluorobenze	50.000	46.223	92.45	64-120
$ 79 d4-1,2-Dichloroben	50.000	51.087	102.17	80-120

Data File: /chem1/finn5.i/21APR11.b/SS83M.d
Date : 21-APR-2011 16:40
Client ID: DMA-TP3-2-3-042011
Sample Info: SS83M,5,9.009,0

Instrument: finn5.i

Operator: PB
Column diameter: 0.18

Column phase: Rtx502.2



CO-ELUTION SUMMARY FOR FILE - SS83M.d

Lab ID: SS83M, Method: s8260b.m, Instrument: finn5.i, Date: 21-APR-2011

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Analytical Resources, Inc.

8260C

Data file : /chem1/finn5.i/21APR11.b/SS83N.d
Lab Smp Id: SS83N Client Smp ID: DMA-TP3-3-4-042011
Inj Date : 21-APR-2011 17:07
Operator : PB Inst ID: finn5.i
Smp Info : SS83N,5,4.435,0
Misc Info : 11-8724
Comment :
Method : /chem1/finn5.i/21APR11.b/s8260b.m
Meth Date : 25-Apr-2011 16:10 patrickb Quant Type: ISTD
Cal Date : 09-MAR-2011 13:53 Cal File: 2000309.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	4.43500	Sample Amount
M	0.00000	Moisture (%)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
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.					
7	Acrolein	56	Compound Not Detected.					
8	112Trichloro122Trifluoroethane	101	Compound Not Detected.					
9	Acetone	43	4.512	4.502	(0.700)	38543	109.026	122.92
10	1,1-Dichloroethene	96	Compound Not Detected.					
11	Bromoethane	108	Compound Not Detected.					
12	Iodomethane	142	Compound Not Detected.					
13	Methylene Chloride	84	5.095	5.085	(0.791)	5309	5.18804	5.849
14	Acrylonitrile	53	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
	16 Methyl tert-Butyl Ether	73	Compound Not Detected.					
	15 Carbon Disulfide	76	5.186	5.176	(0.805)	1511	0.46650	0.5259
	17 Trans-1,2-Dichloroethene	96	Compound Not Detected.					
	18 Vinyl Acetate	43	Compound Not Detected.					
	19 1,1-Dichloroethane	63	Compound Not Detected.					
	20 2-Butanone	43	6.100	6.090	(0.947)	10103	19.7916	22.313
	21 2,2-Dichloropropane	77	Compound Not Detected.					
	22 Cis-1,2-Dichloroethene	96	Compound Not Detected.					
*	23 Pentafluorobenzene	168	6.442	6.432	(1.000)	77484	50.0000	
	24 Chloroform	83	Compound Not Detected.					
	26 Bromochloromethane	128	Compound Not Detected.					
$	25 Dibromofluoromethane	111	6.653	6.643	(1.033)	56052	60.8581	68.611(Q)
	27 1,1,1-Trichloroethane	97	Compound Not Detected.					
	29 1,1-Dichloropropene	75	Compound Not Detected.					
	30 Carbon Tetrachloride	117	Compound Not Detected.					
$	31 d4-1,2-Dichloroethane	65	7.115	7.105	(1.105)	55175	64.6728	72.912
	32 1,2-Dichloroethane	62	Compound Not Detected.					
	33 Benzene	78	Compound Not Detected.					
*	34 1,4-Difluorobenzene	114	7.447	7.437	(1.000)	136824	50.0000	
	35 Trichloroethene	95	Compound Not Detected.					
	36 1,2-Dichloropropane	63	Compound Not Detected.					
	37 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	8.985	8.975	(1.206)	149776	48.4238	54.593
	44 Toluene	92	9.065	9.065	(1.217)	31275	12.7548	14.380
	45 Trans 1,3-Dichloropropene	75	Compound Not Detected.					
	46 2-Hexanone	43	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	10.583	10.573	(1.000)	131621	50.0000	
	53 Chlorobenzene	112	Compound Not Detected.					
	54 Ethyl Benzene	91	10.663	10.653	(1.008)	15832	3.78864	4.271
	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.					
	59 Isopropyl Benzene	105	Compound Not Detected.					
	60 Bromoform	173	Compound Not Detected.					
	61 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
$	62 4-Bromofluorobenzene	95	11.909	11.899	(1.125)	57215	42.3491	47.744
	63 1,2,3-Trichloropropane	110	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
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.					
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	13.266	13.256	(1.000)	55965	50.0000	
77	1,4-Dichlorobenzene	146	Compound Not Detected.					
78	N-Butyl Benzene	91	Compound Not Detected.					
$ 79	d4-1,2-Dichlorobenzene	152	13.708	13.698	(1.033)	47826	48.1186	54.249
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: finn5.i
Lab File ID: SS83N.d
Lab Smp Id: SS83N
Analysis Type: VOA
Quant Type: ISTD
Operator: PB
Method File: /chem1/finn5.i/21APR11.b/s8260b.m
Misc Info: 11-8724

Calibration Date: 21-APR-2011
Calibration Time: 08:45
Client Smp ID: DMA-TP3-3-4-042011
Level: LOW
Sample Type: Soil

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
23 Pentafluorobenzen	91022	45511	182044	77484	-14.87
34 1,4-Difluorobenze	153104	76552	306208	136824	-10.63
52 d5-Chlorobenzene	143720	71860	287440	131621	-8.42
76 d4-1,4-Dichlorobe	77398	38699	154796	55965	-27.69

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	6.43	5.93	6.93	6.44	0.16
34 1,4-Difluorobenze	7.44	6.94	7.94	7.45	0.14
52 d5-Chlorobenzene	10.57	10.07	11.07	10.58	0.10
76 d4-1,4-Dichlorobe	13.26	12.76	13.76	13.27	0.08

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: SOLID
Lab Smp Id: SS83N
Level: LOW
Data Type: MS DATA
SpikeList File: all.spk
Sublist File: voa.sub
Method File: /chem1/finn5.i/21APR11.b/s8260b.m
Misc Info: 11-8724

Client SDG: SS83
Fraction: VOA
Client Smp ID: DMA-TP3-3-4-042011
Operator: PB
SampleType: SAMPLE
Quant Type: ISTD

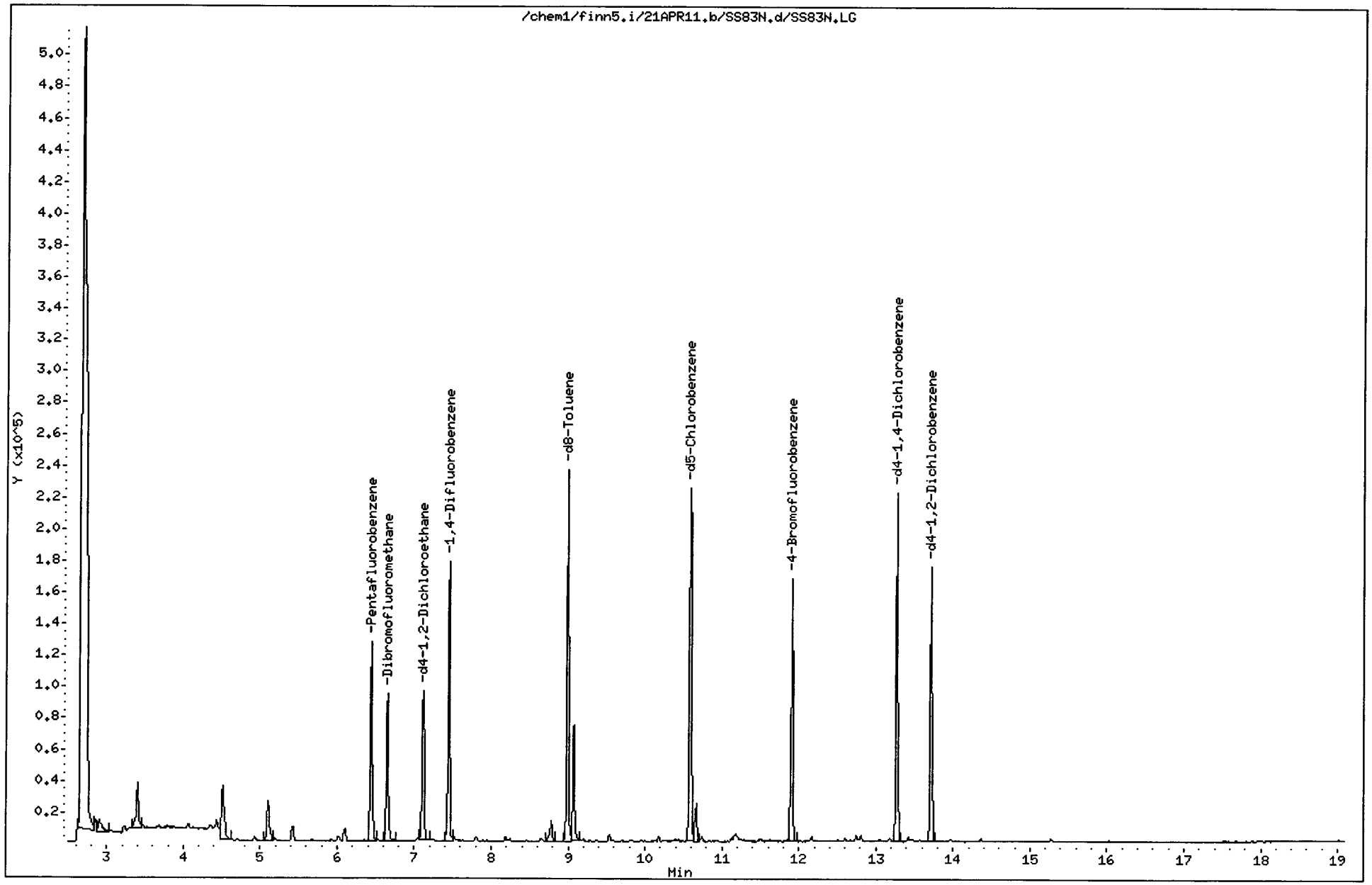
SURROGATE COMPOUND	AMOUNT ADDED ug/Kg	AMOUNT RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 25 Dibromofluorometha	50.000	60.858	121.72	30-160
$ 31 d4-1,2-Dichloroeth	50.000	64.673	129.35	75-152
$ 43 d8-Toluene	50.000	48.424	96.85	82-115
$ 62 4-Bromofluorobenze	50.000	42.349	84.70	64-120
$ 79 d4-1,2-Dichloroben	50.000	48.119	96.24	80-120

Data File: /chem1/finn5.i/21APR11.b/SS83N.d
Date : 21-APR-2011 17:07
Client ID: DMA-TP3-3-4-042011
Sample Info: SS83N,5,4.435,0

Instrument: finn5.i

Operator: PB
Column diameter: 0.18

Column phase: Rtx502.2



CO-ELUTION SUMMARY FOR FILE - SS83N.d

Lab ID: SS83N, Method: s8260b.m, Instrument: finn5.i, Date: 21-APR-2011

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Analytical Resources, Inc.

8260C

Data file : /chem1/finn5.i/21APR11.b/SS830.d
Lab Smp Id: SS830 Client Smp ID: DMA-TP3-5-6-042011
Inj Date : 21-APR-2011 17:35
Operator : PB Inst ID: finn5.i
Smp Info : SS830,5,11.142,0
Misc Info : 11-8725
Comment :
Method : /chem1/finn5.i/21APR11.b/s8260b.m
Meth Date : 25-Apr-2011 16:10 patrickb Quant Type: ISTD
Cal Date : 09-MAR-2011 13:53 Cal File: 2000309.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	11.14200	Sample Amount
M	0.00000	Moisture (%)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
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.					
7 Acrolein	56	Compound Not Detected.					
8 112Trichloro122Trifluoroethane	101	Compound Not Detected.					
9 Acetone	43	4.512	4.502	(0.700)	22333	56.0977	25.174
10 1,1-Dichloroethene	96	Compound Not Detected.					
11 Bromoethane	108	Compound Not Detected.					
12 Iodomethane	142	Compound Not Detected.					
13 Methylene Chloride	84	5.095	5.085	(0.791)	9304	8.07368	3.623
14 Acrylonitrile	53	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
	16 Methyl tert-Butyl Ether	73	Compound Not Detected.					
	15 Carbon Disulfide	76	5.196	5.176	(0.807)	1672	0.45839	0.2057
	17 Trans-1,2-Dichloroethene	96	Compound Not Detected.					
	18 Vinyl Acetate	43	Compound Not Detected.					
	19 1,1-Dichloroethane	63	Compound Not Detected.					
	20 2-Butanone	43	6.100	6.090	(0.947)	4152	7.22269	3.241
	21 2,2-Dichloropropane	77	Compound Not Detected.					
	22 Cis-1,2-Dichloroethene	96	Compound Not Detected.					
*	23 Pentafluorobenzene	168	6.442	6.432	(1.000)	87257	50.0000	
	24 Chloroform	83	Compound Not Detected.					
	26 Bromochloromethane	128	Compound Not Detected.					
$	25 Dibromofluoromethane	111	6.653	6.643	(1.033)	59879	57.7316	25.907(Q)
	27 1,1,1-Trichloroethane	97	Compound Not Detected.					
	29 1,1-Dichloropropene	75	Compound Not Detected.					
	30 Carbon Tetrachloride	117	Compound Not Detected.					
$	31 d4-1,2-Dichloroethane	65	7.115	7.105	(1.105)	58231	60.6101	27.199
	32 1,2-Dichloroethane	62	Compound Not Detected.					
	33 Benzene	78	Compound Not Detected.					
*	34 1,4-Difluorobenzene	114	7.447	7.437	(1.000)	150121	50.0000	
	35 Trichloroethene	95	Compound Not Detected.					
	36 1,2-Dichloropropane	63	Compound Not Detected.					
	37 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	8.995	8.975	(1.208)	162478	47.8776	21.485
	44 Toluene	92	9.075	9.065	(1.219)	1944	0.72259	0.3243
	45 Trans 1,3-Dichloropropene	75	Compound Not Detected.					
	46 2-Hexanone	43	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	10.593	10.573	(1.000)	146225	50.0000	
	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.					
	59 Isopropyl Benzene	105	Compound Not Detected.					
	60 Bromoform	173	Compound Not Detected.					
	61 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
$	62 4-Bromofluorobenzene	95	11.909	11.899	(1.124)	66401	44.2398	19.853
	63 1,2,3-Trichloropropane	110	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
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.					
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	13.266	13.256	(1.000)	70874	50.0000	
77	1,4-Dichlorobenzene	146	Compound Not Detected.					
78	N-Butyl Benzene	91	Compound Not Detected.					
$ 79	d4-1,2-Dichlorobenzene	152	13.718	13.698	(1.034)	64949	51.6002	23.156
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: finn5.i
Lab File ID: SS830.d
Lab Smp Id: SS830
Analysis Type: VOA
Quant Type: ISTD
Operator: PB
Method File: /chem1/finn5.i/21APR11.b/s8260b.m
Misc Info: 11-8725

Calibration Date: 21-APR-2011
Calibration Time: 08:45
Client Smp ID: DMA-TP3-5-6-042011
Level: LOW
Sample Type: Soil

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
23 Pentafluorobenzen	91022	45511	182044	87257	-4.14
34 1,4-Difluorobenze	153104	76552	306208	150121	-1.95
52 d5-Chlorobenzene	143720	71860	287440	146225	1.74
76 d4-1,4-Dichlorobe	77398	38699	154796	70874	-8.43

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	6.43	5.93	6.93	6.44	0.16
34 1,4-Difluorobenze	7.44	6.94	7.94	7.45	0.14
52 d5-Chlorobenzene	10.57	10.07	11.07	10.59	0.19
76 d4-1,4-Dichlorobe	13.26	12.76	13.76	13.27	0.08

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: SOLID
Lab Smp Id: SS830
Level: LOW
Data Type: MS DATA
SpikeList File: all.spk
Sublist File: voa.sub
Method File: /chem1/finn5.i/21APR11.b/s8260b.m
Misc Info: 11-8725

Client SDG: SS83
Fraction: VOA
Client Smp ID: DMA-TP3-5-6-042011
Operator: PB
SampleType: SAMPLE
Quant Type: ISTD

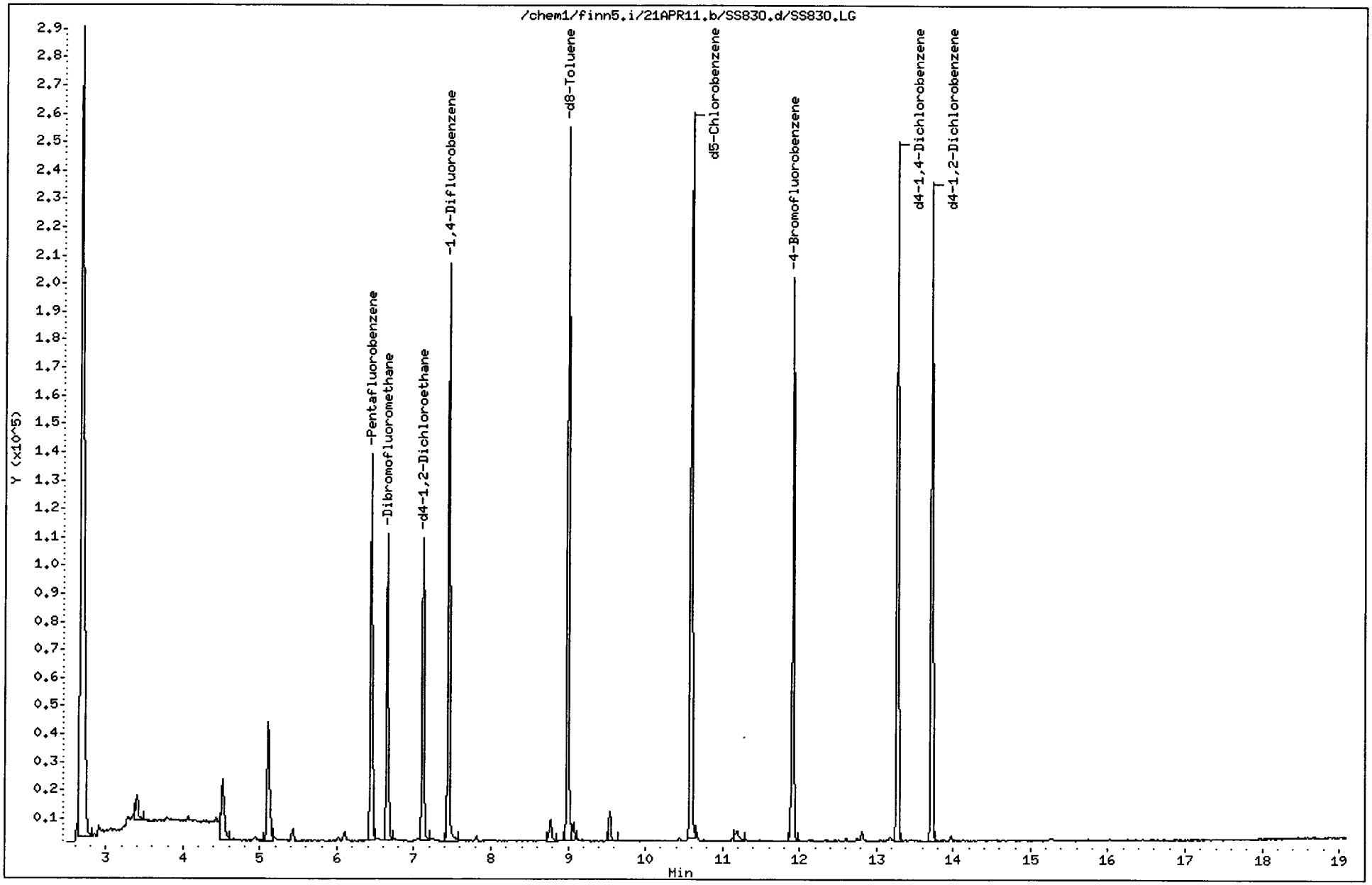
SURROGATE COMPOUND	AMOUNT ADDED ug/Kg	AMOUNT RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 25 Dibromofluorometha	50.000	57.732	115.46	30-160
$ 31 d4-1,2-Dichloroeth	50.000	60.610	121.22	75-152
$ 43 d8-Toluene	50.000	47.878	95.76	82-115
$ 62 4-Bromofluorobenze	50.000	44.240	88.48	64-120
$ 79 d4-1,2-Dichloroben	50.000	51.600	103.20	80-120

Data File: /chem1/finn5.i/21APR11.b/SS830.d
Date : 21-APR-2011 17:35
Client ID: DMA-TP3-5-6-042011
Sample Info: SS830,5,11.142,0

Instrument: finn5.i

Operator: PB
Column diameter: 0.18

Column phase: Rtx502.2



CO-ELUTION SUMMARY FOR FILE - SS830.d

Lab ID: SS830, Method: s8260b.m, Instrument: finn5.i, Date: 21-APR-2011

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Analytical Resources, Inc.

8260C

Data file : /chem1/finn5.i/21APR11.b/SS83P.d
Lab Smp Id: SS83P Client Smp ID: DMA-RB-042011
Inj Date : 21-APR-2011 18:03
Operator : PB Inst ID: finn5.i
Smp Info : SS83P,5,5,0
Misc Info : 11-8726
Comment :
Method : /chem1/finn5.i/21APR11.b/s8260b.m
Meth Date : 25-Apr-2011 16:10 patrickb Quant Type: ISTD
Cal Date : 09-MAR-2011 13:53 Cal File: 2000309.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE 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	5.00000	PurgeVolume (mL)
Sa	0.00000	SampleAmount (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	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	Compound Not Detected.					
5 Chloroethane	64	Compound Not Detected.					
6 Trichlorofluoromethane	101	Compound Not Detected.					
7 Acrolein	56	Compound Not Detected.					
8 112Trichloro122Trifluoroethane	101	Compound Not Detected.					
9 Acetone	43	4.512	4.502	(0.700)	2850	7.21882	7.219
10 1,1-Dichloroethene	96	Compound Not Detected.					
11 Bromoethane	108	Compound Not Detected.					
12 Iodomethane	142	Compound Not Detected.					
13 Methylene Chloride	84	5.095	5.085	(0.791)	1584	1.38606	1.386
14 Acrylonitrile	53	Compound Not Detected.					
16 Methyl tert-Butyl Ether	73	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/L)
	15 Carbon Disulfide	76	Compound Not Detected.					
	17 Trans-1,2-Dichloroethene	96	Compound Not Detected.					
	18 Vinyl Acetate	43	Compound Not Detected.					
	19 1,1-Dichloroethane	63	Compound Not Detected.					
	20 2-Butanone	43	Compound Not Detected.					
	21 2,2-Dichloropropane	77	Compound Not Detected.					
	22 Cis-1,2-Dichloroethene	96	Compound Not Detected.					
*	23 Pentafluorobenzene	168	6.442	6.432	(1.000)	86532	50.0000	
	24 Chloroform	83	6.452	6.442	(1.002)	5164	2.77032	2.770(Q)
	26 Bromochloromethane	128	Compound Not Detected.					
$	25 Dibromofluoromethane	111	6.653	6.643	(1.033)	59847	58.1842	58.184(Q)
	27 1,1,1-Trichloroethane	97	Compound Not Detected.					
	29 1,1-Dichloropropene	75	Compound Not Detected.					
	30 Carbon Tetrachloride	117	Compound Not Detected.					
$	31 d4-1,2-Dichloroethane	65	7.115	7.105	(1.105)	55368	58.1130	58.113
	32 1,2-Dichloroethane	62	Compound Not Detected.					
	33 Benzene	78	Compound Not Detected.					
*	34 1,4-Difluorobenzene	114	7.447	7.437	(1.000)	154314	50.0000	
	35 Trichloroethene	95	Compound Not Detected.					
	36 1,2-Dichloropropane	63	Compound Not Detected.					
	37 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	8.985	8.975	(1.206)	171261	49.0944	49.094
	44 Toluene	92	Compound Not Detected.					
	45 Trans 1,3-Dichloropropene	75	Compound Not Detected.					
	46 2-Hexanone	43	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	10.583	10.573	(1.000)	155356	50.0000	
	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.					
	59 Isopropyl Benzene	105	Compound Not Detected.					
	60 Bromoform	173	Compound Not Detected.					
	61 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
$	62 4-Bromofluorobenzene	95	11.909	11.899	(1.125)	71670	44.9437	44.944
	63 1,2,3-Trichloropropane	110	Compound Not Detected.					
	65 Trans-1,4-Dichloro 2-Butene	53	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/L)
66	N-Propyl Benzene	91	Compound Not Detected.					
67	Bromobenzene	156	Compound Not Detected.					
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	13.266	13.256	(1.000)	79394	50.0000	
77	1,4-Dichlorobenzene	146	Compound Not Detected.					
78	N-Butyl Benzene	91	Compound Not Detected.					
$ 79	d4-1,2-Dichlorobenzene	152	13.708	13.698	(1.033)	71724	50.8678	50.868
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: finn5.i
Lab File ID: SS83P.d
Lab Smp Id: SS83P
Analysis Type: VOA
Quant Type: ISTD
Operator: PB
Method File: /chem1/finn5.i/21APR11.b/s8260b.m
Misc Info: 11-8726

Calibration Date: 21-APR-2011
Calibration Time: 08:45
Client Smp ID: DMA-RB-042011
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
23 Pentafluorobenzen	91022	45511	182044	86532	-4.93
34 1,4-Difluorobenze	153104	76552	306208	154314	0.79
52 d5-Chlorobenzene	143720	71860	287440	155356	8.10
76 d4-1,4-Dichlorobe	77398	38699	154796	79394	2.58

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	6.43	5.93	6.93	6.44	0.16
34 1,4-Difluorobenze	7.44	6.94	7.94	7.45	0.14
52 d5-Chlorobenzene	10.57	10.07	11.07	10.58	0.10
76 d4-1,4-Dichlorobe	13.26	12.76	13.76	13.27	0.08

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: SS83P
Level: LOW
Data Type: MS DATA
SpikeList File: all.spk
Sublist File: voa.sub
Method File: /chem1/finn5.i/21APR11.b/s8260b.m
Misc Info: 11-8726

Client SDG: SS83
Fraction: VOA
Client Smp ID: DMA-RB-042011
Operator: PB
SampleType: SAMPLE
Quant Type: ISTD

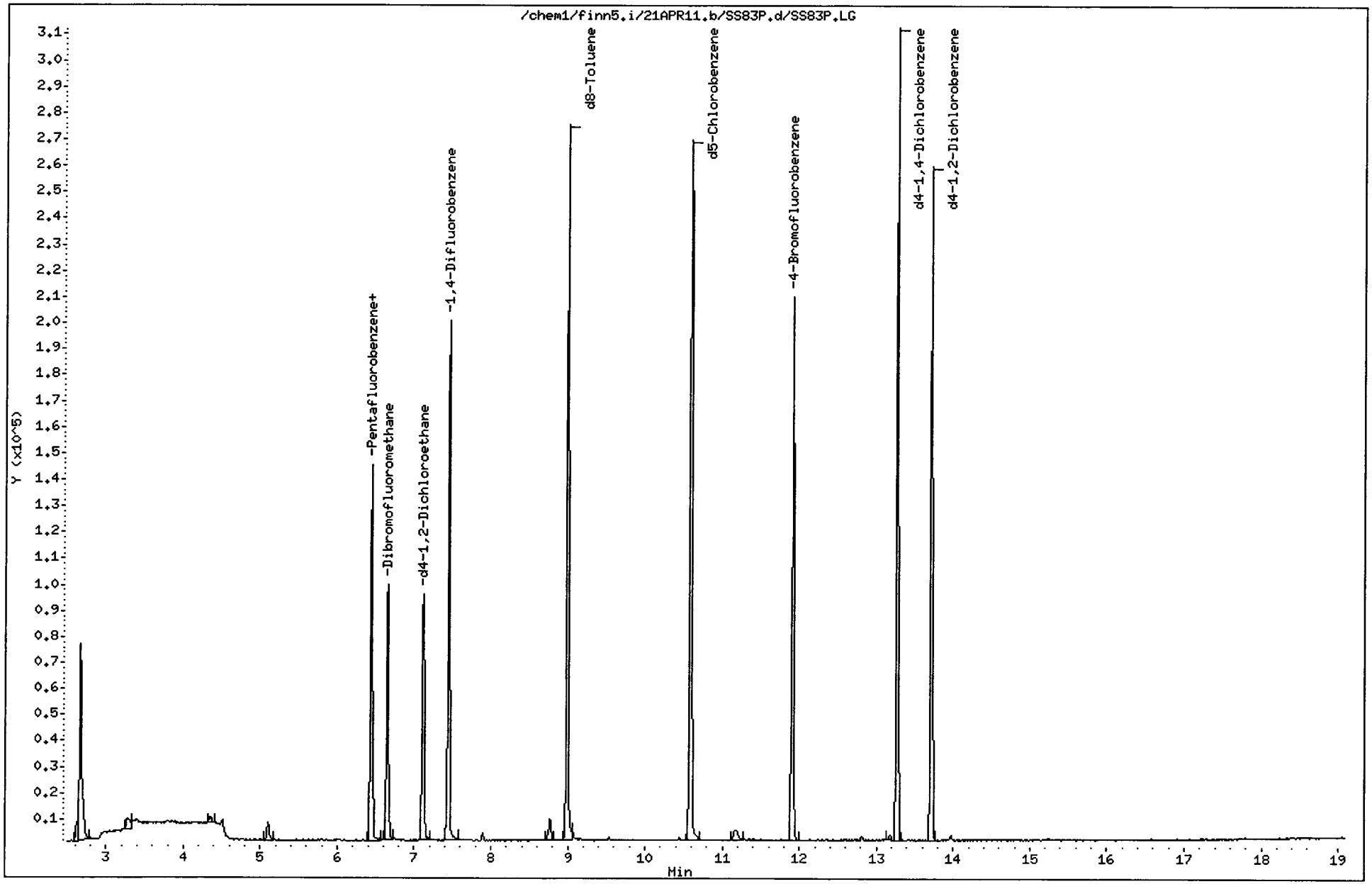
SURROGATE COMPOUND	AMOUNT ADDED ug/Kg	AMOUNT RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 25 Dibromofluorometha	50.000	58.184	116.37	30-160
$ 31 d4-1,2-Dichloroeth	50.000	58.113	116.23	75-152
$ 43 d8-Toluene	50.000	49.094	98.19	82-115
$ 62 4-Bromofluorobenze	50.000	44.944	89.89	71-120
$ 79 d4-1,2-Dichloroben	50.000	50.868	101.74	80-121

Data File: /chem1/finn5.i/21APR11.b/SS83P.d
Date : 21-APR-2011 18:03
Client ID: DMA-RB-042011
Sample Info: SS83P,5,5,0

Instrument: finn5.i

Operator: PB
Column diameter: 0.18

Column phase: Rtx502.2



CO-ELUTION SUMMARY FOR FILE - SS83P.d

Lab ID: SS83P, Method: s8260b.m, Instrument: finn5.i, Date: 21-APR-2011

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Analytical Resources, Inc.

8260C

Data file : /chem1/finn5.i/21APR11.b/SS83Q.d
Lab Smp Id: SS83Q Client Smp ID: TP-TB-042011
Inj Date : 21-APR-2011 18:31
Operator : PB Inst ID: finn5.i
Smp Info : SS83Q,5,5,0
Misc Info : 11-8727
Comment :
Method : /chem1/finn5.i/21APR11.b/s8260b.m
Meth Date : 25-Apr-2011 16:10 patrickb Quant Type: ISTD
Cal Date : 09-MAR-2011 13:53 Cal File: 2000309.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

4/25/11

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	PurgeVolume (mL)
Sa	0.00000	SampleAmount (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	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	Compound Not Detected.					
5	Chloroethane	64	Compound Not Detected.					
6	Trichlorofluoromethane	101	Compound Not Detected.					
7	Acrolein	56	Compound Not Detected.					
8	112Trichloro122Trifluoroethane	101	Compound Not Detected.					
9	Acetone	43	4.492	4.502	(0.700)	1534	3.94402	3.944
10	1,1-Dichloroethene	96	Compound Not Detected.					
11	Bromoethane	108	Compound Not Detected.					
12	Iodomethane	142	Compound Not Detected.					
13	Methylene Chloride	84	Compound Not Detected.					
14	Acrylonitrile	53	Compound Not Detected.					
16	Methyl tert-Butyl Ether	73	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/L)
	15 Carbon Disulfide	76	Compound Not Detected.					
	17 Trans-1,2-Dichloroethene	96	Compound Not Detected.					
	18 Vinyl Acetate	43	Compound Not Detected.					
	19 1,1-Dichloroethane	63	Compound Not Detected.					
	20 2-Butanone	43	Compound Not Detected.					
	21 2,2-Dichloropropane	77	Compound Not Detected.					
	22 Cis-1,2-Dichloroethene	96	Compound Not Detected.					
*	23 Pentafluorobenzene	168	6.422	6.432	(1.000)	85248	50.0000	
	24 Chloroform	83	Compound Not Detected.					
	26 Bromochloromethane	128	Compound Not Detected.					
$	25 Dibromofluoromethane	111	6.633	6.643	(1.033)	58667	57.8961	57.896(Q)
	27 1,1,1-Trichloroethane	97	Compound Not Detected.					
	29 1,1-Dichloropropene	75	Compound Not Detected.					
	30 Carbon Tetrachloride	117	Compound Not Detected.					
$	31 d4-1,2-Dichloroethane	65	7.095	7.105	(1.105)	54898	58.4876	58.488
	32 1,2-Dichloroethane	62	Compound Not Detected.					
	33 Benzene	78	Compound Not Detected.					
*	34 1,4-Difluorobenzene	114	7.427	7.437	(1.000)	152131	50.0000	
	35 Trichloroethene	95	Compound Not Detected.					
	36 1,2-Dichloropropane	63	Compound Not Detected.					
	37 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	8.975	8.975	(1.208)	168578	49.0188	49.019
	44 Toluene	92	Compound Not Detected.					
	45 Trans 1,3-Dichloropropene	75	Compound Not Detected.					
	46 2-Hexanone	43	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	10.573	10.573	(1.000)	153632	50.0000	
	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.					
	59 Isopropyl Benzene	105	Compound Not Detected.					
	60 Bromoform	173	Compound Not Detected.					
	61 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
$	62 4-Bromofluorobenzene	95	11.889	11.899	(1.125)	71529	45.3587	45.359
	63 1,2,3-Trichloropropane	110	Compound Not Detected.					
	65 Trans-1,4-Dichloro 2-Butene	53	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/L)
66	N-Propyl Benzene	91	Compound Not Detected.					
67	Bromobenzene	156	Compound Not Detected.					
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	13.246	13.256	(1.000)	79171	50.0000	
77	1,4-Dichlorobenzene	146	Compound Not Detected.					
78	N-Butyl Benzene	91	Compound Not Detected.					
$ 79	d4-1,2-Dichlorobenzene	152	13.698	13.698	(1.034)	71592	50.9172	50.917
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: finn5.i
Lab File ID: SS83Q.d
Lab Smp Id: SS83Q
Analysis Type: VOA
Quant Type: ISTD
Operator: PB
Method File: /chem1/finn5.i/21APR11.b/s8260b.m
Misc Info: 11-8727

Calibration Date: 21-APR-2011
Calibration Time: 08:45
Client Smp ID: TP-TB-042011
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
23 Pentafluorobenzen	91022	45511	182044	85248	-6.34
34 1,4-Difluorobenze	153104	76552	306208	152131	-0.64
52 d5-Chlorobenzene	143720	71860	287440	153632	6.90
76 d4-1,4-Dichlorobe	77398	38699	154796	79171	2.29

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	6.43	5.93	6.93	6.42	-0.16
34 1,4-Difluorobenze	7.44	6.94	7.94	7.43	-0.14
52 d5-Chlorobenzene	10.57	10.07	11.07	10.57	0.00
76 d4-1,4-Dichlorobe	13.26	12.76	13.76	13.25	-0.08

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: SS83Q
Level: LOW
Data Type: MS DATA
SpikeList File: all.spk
Sublist File: voa.sub
Method File: /chem1/finn5.i/21APR11.b/s8260b.m
Misc Info: 11-8727

Client SDG: SS83
Fraction: VOA
Client Smp ID: TP-TB-042011
Operator: PB
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	AMOUNT ADDED ug/Kg	AMOUNT RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 25 Dibromofluorometha	50.000	57.896	115.79	30-160
$ 31 d4-1,2-Dichloroeth	50.000	58.488	116.98	75-152
$ 43 d8-Toluene	50.000	49.019	98.04	82-115
$ 62 4-Bromofluorobenze	50.000	45.359	90.72	71-120
$ 79 d4-1,2-Dichloroben	50.000	50.917	101.83	80-121

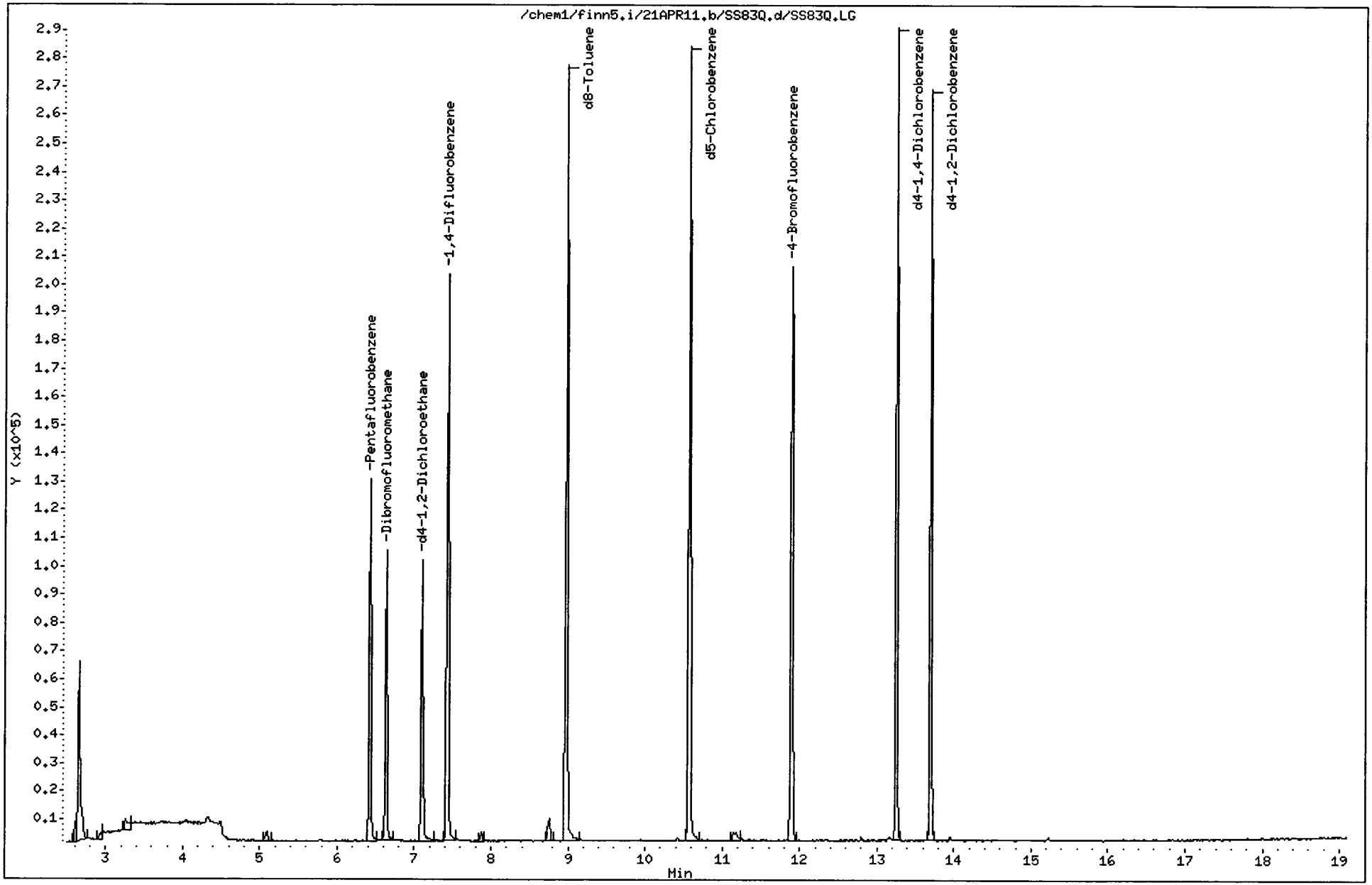
Data File: /chem1/finn5.i/21APR11.b/SS83Q.d
Date : 21-APR-2011 18:31
Client ID: TP-TB-042011
Sample Info: SS83Q,5,5,0

Instrument: finn5.i

Operator: PB
Column diameter: 0.18

Column phase: Rtx502.2

SS83:00577



CO-ELUTION SUMMARY FOR FILE - SS83Q.d

Lab ID: SS83Q, Method: s8260b.m, Instrument: finn5.i, Date: 21-APR-2011

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Analytical Resources, Inc.

8260C

Data file : /chem1/finn5.i/21APR11.b/SS83OMS.d
Lab Smp Id: SS83OMS Client Smp ID: DMA-TP3-5-6-042 MS
Inj Date : 21-APR-2011 18:58
Operator : PB Inst ID: finn5.i
Smp Info : SS83OMS,5,10.268,0
Misc Info : 11-8725
Comment :
Method : /chem1/finn5.i/21APR11.b/s8260b.m
Meth Date : 25-Apr-2011 16:10 patrickb Quant Type: ISTD
Cal Date : 09-MAR-2011 13:53 Cal File: 2000309.d
Als bottle: 1 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	10.26800	Sample Amount
M	0.00000	Moisture (%)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
1 Dichlorodifluoromethane	85	2.874	2.874	(0.447)	34246	45.2515	22.035
2 Chloromethane	50	3.166	3.156	(0.492)	78947	59.8036	29.121
3 Vinyl Chloride	62	3.266	3.266	(0.508)	109355	66.5480	32.406(Q)
4 Bromomethane	94	3.749	3.739	(0.583)	27195	47.7168	23.236
5 Chloroethane	64	3.819	3.809	(0.594)	78558	71.7668	34.947(R)
6 Trichlorofluoromethane	101	4.070	4.070	(0.633)	114026	76.5557	37.279(R)
7 Acrolein	56	4.452	4.452	(0.692)	31529	137.097	66.760
8 112Trichloro122Trifluoroethane	101	4.462	4.462	(0.694)	91907	77.5254	37.751(R)
9 Acetone	43	4.512	4.502	(0.702)	155713	457.254	222.66(R)
10 1,1-Dichloroethene	96	4.663	4.653	(0.725)	58776	71.2470	34.694(R)
11 Bromoethane	108	4.874	4.864	(0.758)	47021	72.5682	35.337(R)
12 Iodomethane	142	4.975	4.965	(0.773)	49233	63.8571	31.095
13 Methylene Chloride	84	5.085	5.085	(0.791)	75584	76.6772	37.338(R)
14 Acrylonitrile	53	5.176	5.166	(0.805)	27693	72.9124	35.505(QR)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
	16 Methyl tert-Butyl Ether	73	5.216	5.206	(0.811)	290686	71.7253	34.926(QR)
	15 Carbon Disulfide	76	5.186	5.176	(0.806)	212923	68.2432	33.231(R)
	17 Trans-1,2-Dichloroethene	96	5.367	5.367	(0.834)	66427	69.8496	34.013(R)
	18 Vinyl Acetate	43	5.698	5.688	(0.886)	86798	46.9377	22.856
	19 1,1-Dichloroethane	63	5.749	5.739	(0.894)	118396	68.5086	33.360(R)
	20 2-Butanone	43	6.090	6.090	(0.947)	206657	420.268	204.65(R)
	21 2,2-Dichloropropane	77	6.261	6.261	(0.973)	81707	70.9540	34.551(R)
	22 Cis-1,2-Dichloroethene	96	6.301	6.301	(0.980)	71299	70.6876	34.421(R)
*	23 Pentafluorobenzene	168	6.432	6.432	(1.000)	74639	50.0000	
	24 Chloroform	83	6.452	6.442	(1.003)	112457	69.9426	34.058(R)
	26 Bromochloromethane	128	6.613	6.603	(1.028)	38947	73.7923	35.933(R)
$	25 Dibromofluoromethane	111	6.643	6.643	(1.033)	50539	56.9640	27.738(Q)
	27 1,1,1-Trichloroethane	97	6.834	6.824	(1.062)	94220	76.1054	37.059(R)
	29 1,1-Dichloropropene	75	6.975	6.975	(0.938)	91671	65.0890	31.695(R)
	30 Carbon Tetrachloride	117	7.095	7.085	(0.954)	93495	72.9545	35.525(R)
$	31 d4-1,2-Dichloroethane	65	7.105	7.105	(1.105)	47212	57.4484	27.974
	32 1,2-Dichloroethane	62	7.196	7.186	(0.968)	76603	65.9224	32.101(R)
	33 Benzene	78	7.246	7.236	(0.974)	250421	68.1150	33.168(R)
*	34 1,4-Difluorobenzene	114	7.437	7.437	(1.000)	130809	50.0000	
	35 Trichloroethene	95	7.809	7.799	(1.050)	72068	66.8271	32.541(R)
	36 1,2-Dichloropropane	63	7.970	7.960	(1.072)	72733	62.9761	30.666(R)
	37 Bromodichloromethane	83	8.201	8.201	(1.103)	87999	67.2386	32.742(R)
	39 Dibromomethane	93	8.271	8.261	(1.112)	45841	66.9671	32.610(R)
	40 2-Chloroethyl Vinyl Ether	63	8.462	8.422	(1.138)	424	1.70421	0.8299(QR)
	41 4-Methyl-2-Pentanone	58	8.462	8.452	(1.138)	166501	396.877	193.26(QR)
	42 Cis 1,3-dichloropropene	75	8.713	8.703	(1.172)	100659	65.3582	31.826(R)
$	43 d8-Toluene	98	8.985	8.975	(1.208)	145286	49.1321	23.925
	44 Toluene	92	9.065	9.065	(1.219)	162081	69.1407	33.668(R)
	45 Trans 1,3-Dichloropropene	75	9.206	9.196	(1.238)	83580	64.1665	31.246(R)
	46 2-Hexanone	43	9.336	9.336	(0.882)	343356	372.470	181.37(R)
	47 1,1,2-Trichloroethane	97	9.377	9.377	(1.261)	62660	72.2076	35.161(R)
	48 1,3-Dichloropropane	76	9.638	9.638	(0.911)	111697	67.2568	32.751(R)
	49 Tetrachloroethene	166	9.759	9.748	(0.922)	82833	68.7734	33.489(R)
	50 Chlorodibromomethane	129	9.960	9.960	(0.941)	82696	69.8096	33.994(R)
	51 1,2-Dibromoethane	107	10.191	10.181	(1.370)	72490	72.1214	35.119(R)
*	52 d5-Chlorobenzene	117	10.583	10.573	(1.000)	130561	50.0000	
	53 Chlorobenzene	112	10.623	10.623	(1.004)	177225	65.6473	31.967(R)
	54 Ethyl Benzene	91	10.663	10.653	(1.008)	280472	67.6627	32.948(R)
	55 1,1,1,2-Tetrachloroethane	131	10.653	10.643	(1.007)	66548	66.3857	32.326(R)
	56 m,p-xylene	106	10.743	10.733	(1.015)	227477	135.216	65.843(R)
	57 o-Xylene	106	11.226	11.226	(1.061)	111816	63.9715	31.151(R)
	58 Styrene	104	11.256	11.256	(1.064)	147400	52.8349	25.728
	59 Isopropyl Benzene	105	11.608	11.608	(0.875)	279100	69.6349	33.909(R)
	60 Bromoform	173	11.668	11.658	(0.880)	58603	73.5573	35.819(R)
	61 1,1,2,2-Tetrachloroethane	83	11.789	11.779	(0.889)	96768	70.8701	34.510(R)
$	62 4-Bromofluorobenzene	95	11.909	11.899	(1.125)	63290	47.2260	22.997
	63 1,2,3-Trichloropropane	110	11.959	11.949	(0.902)	25357	76.9888	37.490(R)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
	65 Trans-1,4-Dichloro 2-Butene	53	12.010	12.010	(0.905)	23258	65.4118	31.852(R)
	66 N-Propyl Benzene	91	12.060	12.060	(0.909)	309735	69.4820	33.834(R)
	67 Bromobenzene	156	12.150	12.140	(0.916)	79319	63.8474	31.090(R)
	68 1,3,5-Trimethyl Benzene	105	12.241	12.231	(0.923)	208226	65.1700	31.734(R)
	69 2-Chloro Toluene	91	12.291	12.281	(0.926)	187605	60.8610	29.636
	70 4-Chloro Toluene	91	12.341	12.331	(0.930)	206406	64.8870	31.597(R)
	71 T-Butyl Benzene	119	12.643	12.643	(0.953)	199333	65.0017	31.652(R)
	72 1,2,4-Trimethylbenzene	105	12.693	12.693	(0.957)	199932	62.3392	30.356
	73 S-Butyl Benzene	105	12.894	12.884	(0.972)	281644	65.8741	32.077
	74 4-Isopropyl Toluene	119	13.045	13.035	(0.983)	213083	63.5880	30.964
	75 1,3-Dichlorobenzene	146	13.186	13.176	(0.994)	131643	60.3951	29.409(R)
*	76 d4-1,4-Dichlorobenzene	152	13.266	13.256	(1.000)	67421	50.0000	
	77 1,4-Dichlorobenzene	146	13.306	13.296	(1.003)	128106	59.0365	28.748
	78 N-Butyl Benzene	91	13.517	13.507	(1.019)	196966	59.5957	29.020
$	79 d4-1,2-Dichlorobenzene	152	13.708	13.698	(1.033)	60812	50.7879	24.731
	80 1,2-Dichlorobenzene	146	13.738	13.738	(1.036)	118963	58.2325	28.356
	81 1,2-Dibromo 3-Chloropropane	75	14.643	14.643	(1.104)	15388	62.9373	30.647(R)
	82 1,2,4-Trichlorobenzene	180	15.688	15.688	(1.183)	57676	39.5645	19.266
	83 Hexachloro 1,3-Butadiene	225	15.849	15.839	(1.195)	32962	39.3545	19.164
	84 Naphthalene	128	16.020	16.010	(1.208)	131245	40.8370	19.886
	85 1,2,3-Trichlorobenzene	180	16.301	16.291	(1.229)	50747	35.3100	17.194(R)

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: finn5.i
Lab File ID: SS83OMS.d
Lab Smp Id: SS83OMS
Analysis Type: VOA
Quant Type: ISTD
Operator: PB
Method File: /chem1/finn5.i/21APR11.b/s8260b.m
Misc Info: 11-8725

Calibration Date: 21-APR-2011
Calibration Time: 08:45
Client Smp ID: DMA-TP3-5-6-042 MS
Level: LOW
Sample Type: Soil

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
23 Pentafluorobenzen	91022	45511	182044	74639	-18.00
34 1,4-Difluorobenze	153104	76552	306208	130809	-14.56
52 d5-Chlorobenzene	143720	71860	287440	130561	-9.16
76 d4-1,4-Dichlorobe	77398	38699	154796	67421	-12.89

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	6.43	5.93	6.93	6.43	0.00
34 1,4-Difluorobenze	7.44	6.94	7.94	7.44	0.00
52 d5-Chlorobenzene	10.57	10.07	11.07	10.58	0.10
76 d4-1,4-Dichlorobe	13.26	12.76	13.76	13.27	0.08

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: SOLID
Lab Smp Id: SS83OMS
Level: LOW
Data Type: MS DATA
SpikeList File: gasco.spk
Sublist File: voa.sub
Method File: /chem1/finn5.i/21APR11.b/s8260b.m
Misc Info: 11-8725

Client SDG: SS83
Fraction: VOA
Client Smp ID: DMA-TP3-5-6-042 MS
Operator: PB
SampleType: MS
Quant Type: ISTD

	SPIKE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
3	Vinyl Chloride	24.347	32.406	133.10	63-137
10	1,1-Dichloroethene	24.347	34.694	142.49*	75-126
17	Trans-1,2-Dichloro	24.347	34.013	139.70*	80-120
22	Cis-1,2-Dichloroet	24.347	34.421	141.38*	80-120
33	Benzene	24.347	33.168	136.23*	80-120
35	Trichloroethene	24.347	32.541	133.65*	80-120
44	Toluene	24.347	33.668	138.28*	80-120
49	Tetrachloroethene	24.347	33.489	137.55*	80-121
54	Ethyl Benzene	24.347	32.948	135.33*	80-127
56	m,p-xylene	48.695	65.843	135.22*	80-125
57	o-Xylene	24.347	31.151	127.94*	78-120

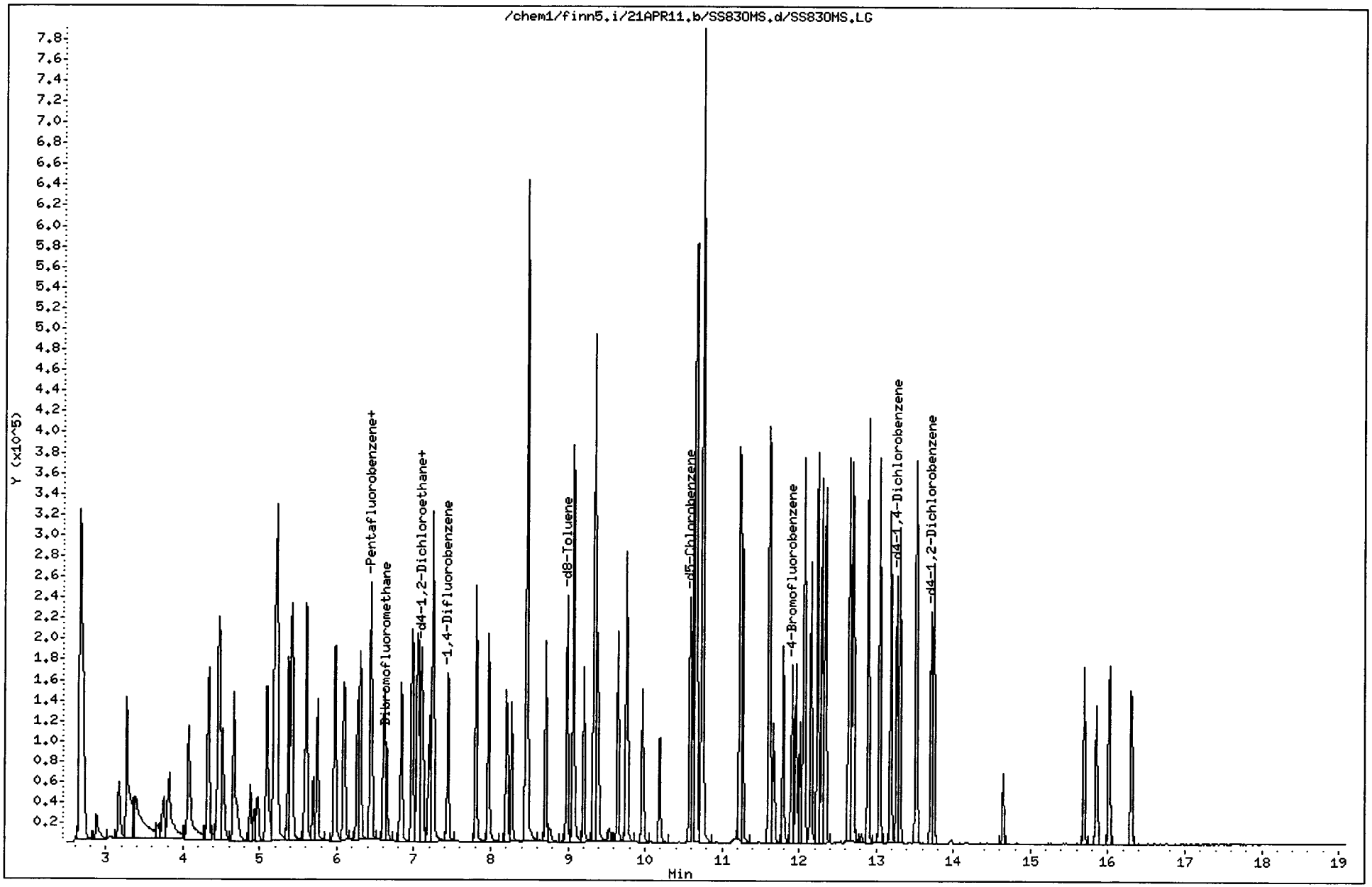
	SURROGATE COMPOUND	AMOUNT ADDED ug/Kg	AMOUNT RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 25	Dibromofluorometha	50.000	56.964	113.93	30-160
$ 31	d4-1,2-Dichloroeth	50.000	57.448	114.90	75-152
$ 43	d8-Toluene	50.000	49.132	98.26	82-115
$ 62	4-Bromofluorobenze	50.000	47.226	94.45	64-120
$ 79	d4-1,2-Dichloroben	50.000	50.788	101.58	80-120

Data File: /chem1/finn5.i/21APR11.b/SS830MS.d
Date : 21-APR-2011 18:58
Client ID: DMA-TP3-5-6-042 MS
Sample Info: SS830MS,5,10.268,0

Column phase: Rtx502.2

Instrument: finn5.i

Operator: PB
Column diameter: 0.18



CO-ELUTION SUMMARY FOR FILE - SS83OMS.d

Lab ID: SS83OMS, Method: s8260b.m, Instrument: finn5.i, Date: 21-APR-2011

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Analytical Resources, Inc.

8260C

Data file : /chem1/finn5.i/21APR11.b/SS83OMSD.d
Lab Smp Id: SS83OMSD Client Smp ID: DMA-TP3-5-6-042 MSD
Inj Date : 21-APR-2011 19:26
Operator : PB Inst ID: finn5.i
Smp Info : SS83OMSD,5,10.398,0
Misc Info : 11-8725
Comment :
Method : /chem1/finn5.i/21APR11.b/s8260b.m
Meth Date : 25-Apr-2011 16:10 patrickb Quant Type: ISTD
Cal Date : 09-MAR-2011 13:53 Cal File: 2000309.d
Als bottle: 1 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	10.39800	Sample Amount
M	0.00000	Moisture (%)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
1	Dichlorodifluoromethane	85	2.874	2.874	(0.447)	32581	38.6573	18.589
2	Chloromethane	50	3.166	3.156	(0.492)	76702	52.1726	25.088
3	Vinyl Chloride	62	3.266	3.266	(0.508)	105705	57.7612	27.775(Q)
4	Bromomethane	94	3.749	3.739	(0.583)	32050	50.4958	24.281
5	Chloroethane	64	3.819	3.809	(0.594)	76275	62.5691	30.087
6	Trichlorofluoromethane	101	4.070	4.070	(0.633)	110291	66.4903	31.973(R)
7	Acrolein	56	4.452	4.452	(0.692)	27292	106.561	51.241(R)
8	112Trichloro122Trifluoroethane	101	4.462	4.462	(0.694)	87207	66.0528	31.762(R)
9	Acetone	43	4.512	4.502	(0.702)	151697	399.994	192.34(R)
10	1,1-Dichloroethene	96	4.663	4.653	(0.725)	57613	62.7092	30.154
11	Bromoethane	108	4.874	4.864	(0.758)	45726	63.3669	30.471(R)
12	Iodomethane	142	4.975	4.965	(0.773)	50329	58.6159	28.186
13	Methylene Chloride	84	5.085	5.085	(0.791)	74527	67.8883	32.645(R)
14	Acrylonitrile	53	5.176	5.166	(0.805)	27395	64.7660	31.143(QR)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
	16 Methyl tert-Butyl Ether	73	5.216	5.206	(0.811)	284642	63.0655	30.326(QR)
	15 Carbon Disulfide	76	5.186	5.176	(0.806)	202036	58.1447	27.960
	17 Trans-1,2-Dichloroethene	96	5.367	5.367	(0.834)	64050	60.4760	29.080(R)
	18 Vinyl Acetate	43	5.698	5.688	(0.886)	73315	35.5999	17.119
	19 1,1-Dichloroethane	63	5.749	5.739	(0.894)	118226	61.4279	29.538(R)
	20 2-Butanone	43	6.090	6.090	(0.947)	200614	366.338	176.16(R)
	21 2,2-Dichloropropane	77	6.271	6.261	(0.975)	79758	62.1923	29.906(R)
	22 Cis-1,2-Dichloroethene	96	6.301	6.301	(0.980)	68550	61.0255	29.345(R)
*	23 Pentafluorobenzene	168	6.432	6.432	(1.000)	83123	50.0000	
	24 Chloroform	83	6.452	6.442	(1.003)	113708	63.5025	30.536(R)
	26 Bromochloromethane	128	6.613	6.603	(1.028)	37815	64.3348	30.936(R)
$	25 Dibromofluoromethane	111	6.643	6.643	(1.033)	53886	54.5373	26.225(Q)
	27 1,1,1-Trichloroethane	97	6.834	6.824	(1.062)	91103	66.0769	31.774(R)
	29 1,1-Dichloropropene	75	6.975	6.975	(0.938)	87959	56.1862	27.018
	30 Carbon Tetrachloride	117	7.095	7.085	(0.954)	89695	62.9659	30.278(R)
$	31 d4-1,2-Dichloroethane	65	7.105	7.105	(1.105)	51189	55.9302	26.895
	32 1,2-Dichloroethane	62	7.196	7.186	(0.968)	75277	58.2804	28.025
	33 Benzene	78	7.246	7.236	(0.974)	245267	60.0184	28.860(R)
*	34 1,4-Difluorobenzene	114	7.437	7.437	(1.000)	145400	50.0000	
	35 Trichloroethene	95	7.809	7.799	(1.050)	69842	58.2640	28.017
	36 1,2-Dichloropropane	63	7.970	7.960	(1.072)	72145	56.1983	27.024
	37 Bromodichloromethane	83	8.201	8.201	(1.103)	85726	58.9287	28.336
	39 Dibromomethane	93	8.271	8.261	(1.112)	44968	59.0995	28.419
	40 2-Chloroethyl Vinyl Ether	63	8.462	8.422	(1.138)	452	1.63444	0.7859(QR)
	41 4-Methyl-2-Pentanone	58	8.462	8.452	(1.138)	164632	353.042	169.76(QR)
	42 Cis 1,3-dichloropropene	75	8.713	8.703	(1.172)	96490	56.3641	27.103
$	43 d8-Toluene	98	8.985	8.975	(1.208)	159149	48.4193	23.283
	44 Toluene	92	9.065	9.065	(1.219)	156107	59.9097	28.808
	45 Trans 1,3-Dichloropropene	75	9.206	9.196	(1.238)	80707	55.7430	26.805
	46 2-Hexanone	43	9.346	9.336	(0.883)	338743	338.135	162.60(R)
	47 1,1,2-Trichloroethane	97	9.377	9.377	(1.261)	60899	63.1358	30.360(R)
	48 1,3-Dichloropropane	76	9.638	9.638	(0.911)	109231	60.5222	29.103(R)
	49 Tetrachloroethene	166	9.759	9.748	(0.922)	78578	60.0332	28.868
	50 Chlorodibromomethane	129	9.960	9.960	(0.941)	77893	60.5066	29.095(R)
	51 1,2-Dibromoethane	107	10.191	10.181	(1.370)	69231	61.9669	29.798(R)
*	52 d5-Chlorobenzene	117	10.583	10.573	(1.000)	141886	50.0000	
	53 Chlorobenzene	112	10.623	10.623	(1.004)	168946	57.5856	27.691
	54 Ethyl Benzene	91	10.663	10.653	(1.008)	268102	59.5160	28.619
	55 1,1,1,2-Tetrachloroethane	131	10.653	10.643	(1.007)	63766	58.5332	28.146
	56 m,p-xylene	106	10.743	10.733	(1.015)	217953	119.214	57.325
	57 o-Xylene	106	11.226	11.226	(1.061)	106731	56.1885	27.019
	58 Styrene	104	11.256	11.256	(1.064)	138722	45.7554	22.002
	59 Isopropyl Benzene	105	11.608	11.608	(0.875)	269683	60.7712	29.222
	60 Bromoform	173	11.668	11.658	(0.880)	54688	61.9976	29.812(R)
	61 1,1,2,2-Tetrachloroethane	83	11.789	11.779	(0.889)	92076	60.9053	29.287(R)
$	62 4-Bromofluorobenzene	95	11.909	11.899	(1.125)	70095	48.1290	23.143
	63 1,2,3-Trichloropropane	110	11.959	11.949	(0.902)	24099	66.0854	31.778(R)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
65	Trans-1,4-Dichloro 2-Butene	53	12.010	12.010	(0.905)	22192	56.3712	27.107
66	N-Propyl Benzene	91	12.070	12.060	(0.910)	298063	60.3903	29.039
67	Bromobenzene	156	12.150	12.140	(0.916)	77213	56.1349	26.993
68	1,3,5-Trimethyl Benzene	105	12.241	12.231	(0.923)	199959	56.5237	27.180
69	2-Chloro Toluene	91	12.291	12.281	(0.926)	181553	53.1955	25.580
70	4-Chloro Toluene	91	12.341	12.331	(0.930)	200850	57.0275	27.422
71	T-Butyl Benzene	119	12.643	12.643	(0.953)	190804	56.1966	27.023
72	1,2,4-Trimethylbenzene	105	12.693	12.693	(0.957)	194190	54.6869	26.297
73	S-Butyl Benzene	105	12.894	12.884	(0.972)	272522	57.5695	27.683
74	4-Isopropyl Toluene	119	13.045	13.035	(0.983)	206737	55.7213	26.794
75	1,3-Dichlorobenzene	146	13.186	13.176	(0.994)	125434	51.9752	24.993
* 76	d4-1,4-Dichlorobenzene	152	13.266	13.256	(1.000)	74648	50.0000	
77	1,4-Dichlorobenzene	146	13.306	13.296	(1.003)	124082	51.6460	24.834
78	N-Butyl Benzene	91	13.517	13.507	(1.019)	192767	52.6785	25.331
$ 79	d4-1,2-Dichlorobenzene	152	13.708	13.698	(1.033)	66457	50.1289	24.105
80	1,2-Dichlorobenzene	146	13.738	13.738	(1.036)	115438	51.0363	24.541
81	1,2-Dibromo 3-Chloropropane	75	14.643	14.643	(1.104)	15278	56.4377	27.139
82	1,2,4-Trichlorobenzene	180	15.688	15.688	(1.183)	59920	37.1244	17.852(R)
83	Hexachloro 1,3-Butadiene	225	15.849	15.839	(1.195)	33266	35.8722	17.250(R)
84	Naphthalene	128	16.020	16.010	(1.208)	136820	38.4501	18.489
85	1,2,3-Trichlorobenzene	180	16.301	16.291	(1.229)	52924	33.2596	15.993(R)

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: finn5.i
Lab File ID: SS83OMSD.d
Lab Smp Id: SS83OMSD
Analysis Type: VOA
Quant Type: ISTD
Operator: PB
Method File: /chem1/finn5.i/21APR11.b/s8260b.m
Misc Info: 11-8725

Calibration Date: 21-APR-2011
Calibration Time: 08:45
Client Smp ID: DMA-TP3-5-6-042 MSD
Level: LOW
Sample Type: Soil

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
23 Pentafluorobenzen	91022	45511	182044	83123	-8.68
34 1,4-Difluorobenze	153104	76552	306208	145400	-5.03
52 d5-Chlorobenzene	143720	71860	287440	141886	-1.28
76 d4-1,4-Dichlorobe	77398	38699	154796	74648	-3.55

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	6.43	5.93	6.93	6.43	0.00
34 1,4-Difluorobenze	7.44	6.94	7.94	7.44	0.00
52 d5-Chlorobenzene	10.57	10.07	11.07	10.58	0.10
76 d4-1,4-Dichlorobe	13.26	12.76	13.76	13.27	0.08

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: SOLID
Lab Smp Id: SS83OMSD
Level: LOW
Data Type: MS DATA
SpikeList File: gasco.spk
Sublist File: voa.sub
Method File: /chem1/finn5.i/21APR11.b/s8260b.m
Misc Info: 11-8725

Client SDG: SS83
Fraction: VOA
Client Smp ID: DMA-TP3-5-6-042 MSD
Operator: PB
SampleType: MSD
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
3 Vinyl Chloride	24.043	27.775	115.52	63-137
10 1,1-Dichloroethene	24.043	30.154	125.42	75-126
17 Trans-1,2-Dichloro	24.043	29.080	120.95*	80-120
22 Cis-1,2-Dichloroet	24.043	29.345	122.05*	80-120
33 Benzene	24.043	28.860	120.04*	80-120
35 Trichloroethene	24.043	28.017	116.53	80-120
44 Toluene	24.043	28.808	119.82	80-120
49 Tetrachloroethene	24.043	28.868	120.07	80-121
54 Ethyl Benzene	24.043	28.619	119.03	80-127
56 m,p-xylene	48.086	57.325	119.21	80-125
57 o-Xylene	24.043	27.019	112.38	78-120

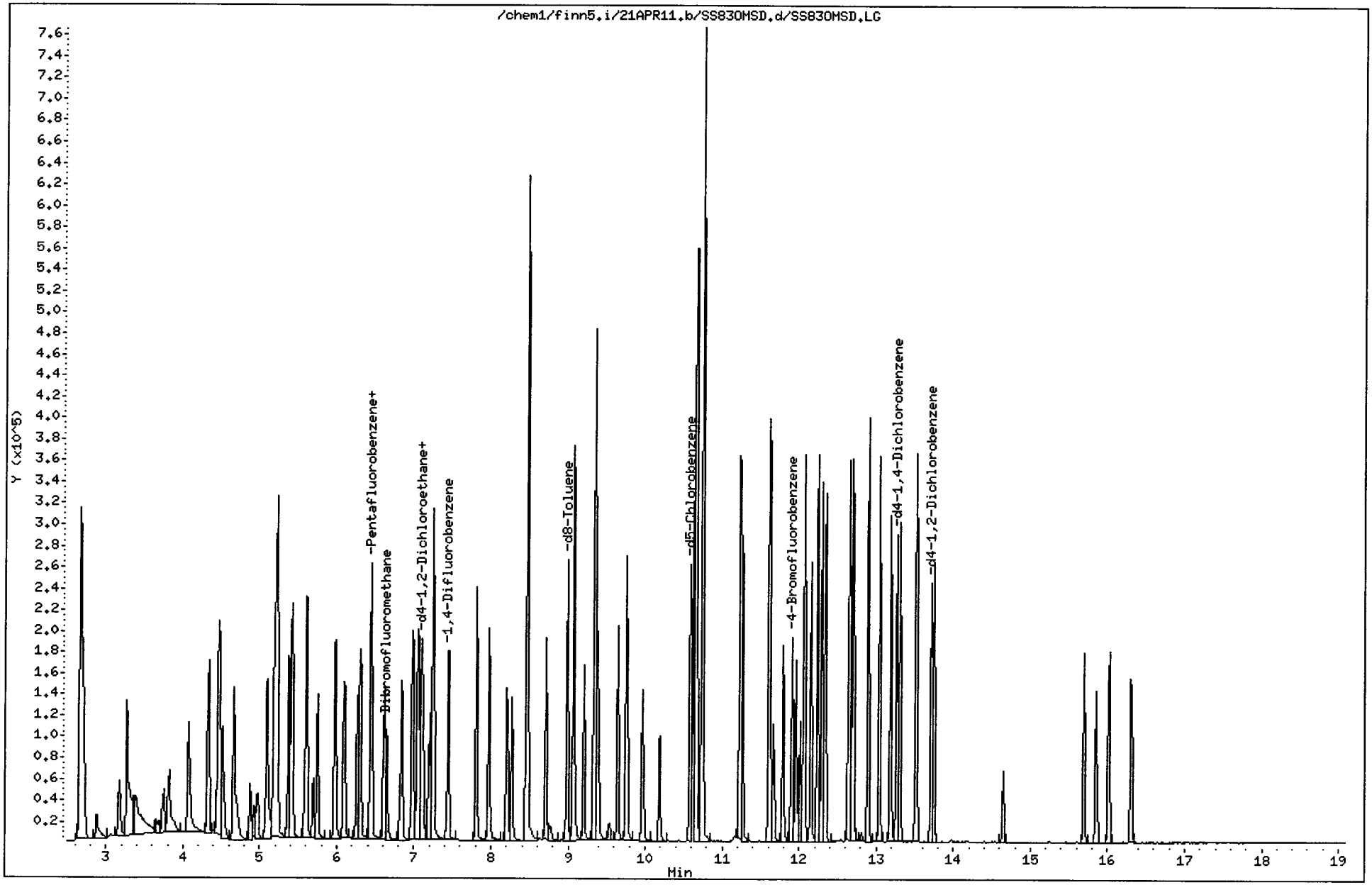
SURROGATE COMPOUND	AMOUNT ADDED ug/Kg	AMOUNT RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 25 Dibromofluorometha	50.000	54.537	109.07	30-160
$ 31 d4-1,2-Dichloroeth	50.000	55.930	111.86	75-152
$ 43 d8-Toluene	50.000	48.419	96.84	82-115
$ 62 4-Bromofluorobenze	50.000	48.129	96.26	64-120
$ 79 d4-1,2-Dichloroben	50.000	50.129	100.26	80-120

Data File: /chem1/finn5.i/21APR11.b/SS830MSD.d
Date : 21-APR-2011 19:26
Client ID: DMA-TP3-5-6-042 MSD
Sample Info: SS830MSD,5,10.398,0

Instrument: finn5.i

Operator: PB
Column diameter: 0.18

Column phase: Rtx502.2



CO-ELUTION SUMMARY FOR FILE - SS83OMSD.d

Lab ID: SS83OMSD, Method: s8260b.m, Instrument: finn5.i, Date: 21-APR-2011

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

SIM PAH Raw Data
Extraction Bench Sheets and Notes

ARI Job ID: SS83

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Organic Extractions Benchsheet

SIM PNA-Soil/ Sediment
Microwave (3546) (SOP # 3304S)

Preparation Test SIM PNA # 5 In-House (5ppb)
ARI Job No(s) SS83 Batch set up by: SP

Bottle #	Extraction Requirements	Verify Client ID	Volume Extracted (dry wt)	Turbo Vap 1 (2) 3 **Exchange 5mL Hexane**	**(Opt)** Silica Gel Clean **(1:1)** (Y) N	TurboVap 1 2 (3)	Final Effective Volume	Volume to Lab	Comments
	SS83 MBS	Date 5/11/11	10.00g				0.5mL	0.5mL	PRE-FILTER
	SBS	↓	↓				↓	↓	↓
	SBS Dup.	↓	↓				↓	↓	
	QLS	↓	↓	05/03/11			↓	↓	
8	A	Verified	12.25						
8	B		13.81						PRE FILTER
8	C		12.28						↓
8	D		12.79						↓
8	E		12.37						
8	F		12.75						
8	G		12.93						
8	H		30.67						PREFILTER
8	I		13.06						
8	J		20.27						PRE-FILTER
8	K		21.01						↓
8	L		13.02						
8	M		12.22						PRE FILTER
8	N		21.03						↓
22	C		12.28						
22	OMS		12.47						
22	CMSD	↓	12.42	↓	↓	↓	↓	↓	
Analyst/Date:		RR 5/11/11 (weighed) NL 5/2/11 microwave		05/03/11	05/03/11	05/03/11	05/03/11	05/03/11	

Standard	Standard ID	Volume	Expiration Date	Analyst	Witness
Surrogate	**B 2**	**100µL**	10/5/11	RR	TH
Spike	**15**	**100µL**	1/4/12	RR	TH
QLS Spike	**4**	**50µL**	1/4/12	RR	TH
Extraction Time:	13:45		**Balance ID:**	2415 0347	

SPECIAL INSTRUCTIONS: 1. Weigh into 100mL beakers-dry with Sodium Sulfate. 2. Transfer to microwave vessel. 3. Add 20mL DCM to the vessel (if needed-Add 5mL increments until solvent is 1" above soil layer). 4. Add surr/spike. 5. Mix samples thoroughly before microwaving. 6. Microwave on appropriate power setting determined by # of samples. 7. After microwave-let cool 10-15 min. 8. Collect into turbo tube with sm. funnel containing glasswool and 1" sodium sulfate. 9. Add (2) 10mL DCM rinses to vessel and transfer to turbo tube. 10. TurboVap to 4mL then Add 5mL Hexane and turbovap. 11. Silica Clean-up Opt-Any Color=REQ (All or none). 12. TurboVap (if Silica Clean). 13. Vial in DCM.
A. Need Total Solids Y /(N) B. ~~Archive~~/Freeze (Y) N

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Organic Extractions Laboratory Analyst Notes

ARI Job No.: 5583 Client ID: Floyd Snider

Parameter: Sim PNA Client Project: Lora Lake Parcel: DMA

Note problems, concerns, corrective actions	Analyst/Date
Screens: Soil/Sediment/Solid/Other:	
☒ **No Anomalies (standard soil/sediment)** A-0	WC 4/22/11
☐ **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=**	
☐ **Particulates=**	
☐ **Emulsions=**	
☐ **Other (Details)=**	
☐ **Other Notes/Comments=**	

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Organic Extractions Benchsheet

SIM PNA-Water
Liquid/Liquid (3520C) (SOP # 3311S)

Preparation Test SIM PNA # 3 In-House (0.1ppb)

ARI Job No(s) 5571, 5583, 5521, 5553 Batch set up by: JH

Bottle #	Extraction Requirements	Verify Client ID	Volume Extracted	Disassemble Liq/Liq (Mantle ID)	KD Hex X	Turbo Vap (1) 2 3	(Opt) Silica Gel Clean (1:1) (Y) / N	Turbo Vap 1 2 (3)	Final Effective Volume	Volume to Lab	Comments
	5571 MBW	Date 4-21-11	500mL	23	↓	↓	↓	↓	0.5mL	0.5mL	
	SBW	↓	↓	24	↓	↓	↓	↓	↓	↓	
	SBW Dup.	↓	↓	25	↓	↓	↓	↓	↓	↓	
	QLS	↓	↓	26	↓	↓	↓	↓	↓	↓	
3	↓ T	Verified	500mL	27	↓	↓	↓	↓	↓	↓	
10	5583 P	↓	↓	28	↓	↓	↓	↓	↓	↓	
4	5521 A	↓	↓	29	↓	↓	↓	↓	↓	↓	
1	5553 A	↓	↓	30	↓	↓	↓	↓	↓	↓	
Analyst/Date:		PD 4-21-11		RR 4/22/11	YL 4/22/11	WW 4/27/11 →					

Standard	Standard ID	Volume	Expiration Date	Analyst	Witness
Surrogate	B2	100µL	10/05/11	NL	PD
Spike	15	100µL	1/04/12	NL	PD
QLS Spike	4	50µL	1/04/12	NL	PD
Extraction Time: 10:18		**Liq/Liq Start:** 10:27		**Liq/Liq Stop:**	

SPECIAL INSTRUCTIONS: 1. Use 500mL Liq/Liq Body 2. Add 20-25mL Hexane. 3. Add ~200mL DCM to Liq/Liq. 4. Add surr/spik. 5. Extract minimum 8 hrs. 6. KD (no drying column) to ~8mL at 80°. 7. Exchange (2 X with 10mL) to Hexane at 100°. 8. TurboVap. 9. Silica Clean-up Opt-Any Color=REQ (All or none). 10. TurboVap (if Silica Clean). 11. Vial in DCM. A. Archive Y (N)

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Organic Extractions Laboratory Analyst Notes

ARI Job No.: 5583 Client ID: Floyd Snider

Parameter: SIM PNA Client Project: Lora Lake Parcel : DMA

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 P.	PD 4-21-11
☐ Turbid/Color=	
☐ Particulates=	
☐ Emulsions=	
☐ Other (Details)=	
☐ Other Notes/Comments=	

SIM PAH Raw Data
Initial Calibration

ARI Job ID: SS83