

Kennedy/Jenks Consultants

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Remedial Investigation/ Feasibility Study Report

Cornet Bay Marina, Whidbey
Island, Washington

15 July 2013

Volume 2 of 2

Prepared for

Washington State
Department of Ecology
Toxics Cleanup Program

3190 160th Avenue SE
Bellevue, Washington 98008-5452

K/J Project No. 1396010.00

Appendix G

Laboratory Analytical Reports and
Chain-of-Custody Documentation

Groundwater Sample Results



Analytical Resources, Incorporated
Analytical Chemists and Consultants

6 October 2011

Dean Malte
Kennedy Jenks Consultants
32001 32nd Ave S., Suite 100
Federal Way, WA 98001

RE: Client Project: Ecology Cornet Bay
ARI Job No: TN16

Dear Dean:

Please find enclosed the original Chain-of-Custody (COC) records and the final results for the samples from the project referenced above. Nine water samples and one trip blank were received on September 20, 2011. The samples were analyzed for total and dissolved metals, PAHs, VOAs, BETX/NWTPH-G and Acid/Silica Cleaned NWTPH-Dx as requested.


Sample MW-2 was initially analyzed for BETX/NWTPH-G on 9/30/11. This sample was diluted and re-analyzed on 10/3/11 due to the presence of benzene at a concentration that exceeded the established calibration range. Benzene was detected in the dilution at a concentration that still exceeded the calibration range. This sample was diluted further analyzed a third time on 10/5/11. The third analysis proceeded without incident of note except that it was not performed within holding time. The results for all three analyses have been submitted for this sample.

There were no further analytical complications noted.

An electronic copy of this report and all supporting raw data will be kept on file at ARI. Should you have any questions regarding these results, please feel free to call me at any time.

Sincerely,

ANALYTICAL RESOURCES, INC.


Mark D. Harris
Project Manager
206/695-6210
markh@arilabs.com

Enclosures

cc: file TN16

MDH/esj

RECEIVED
OCT 07 2011

K/J Federal Way

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Chain of Custody Record & Laboratory Analysis Request

Groundwater

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)



Page: 1 of 1
Date: 9/20/11
Ice Present? X
No. of Coolers: 2
Cooler Temps: 5.6 3.2

ARI Assigned Number: IN116
ARI Client Company: Kennedy Jenks
Client Contact: Dean Malte
Turn-around Requested: STD.
Phone: 253 835 6400

Client Project Name: Ecology Corner Bay
Client Project #: [blank]
Samplers: DKM

Sample ID	Date	Time	Matrix	No. Containers	Analysis Requested						Notes/Comments	
					WTRPH-DX w/silv-501	NMTRPH-6X +KSTEX	PAH (GIM)	VOCS-1 M+DE, EDS	Total Metals	Dissolved Metals*		
MW-1	9/19/11	1100	Water	11	X	X	X	X	X	X		
MW-3		1225		11	X	X	X	X	X	X		
MW-2		1400		11	X	X	X	X	X	X		
MW-100		1700		11	X	X	X	X	X	X		
RB-01		1800		5	X	X	X	X	X	X		
MW-5	9/20/11	730	Water	11	X	X	X	X	X	X		
MW-4		900		11	X	X	X	X	X	X		
MW-6		1000		11	X	X	X	X	X	X		
MW-7		1050		11	X	X	X	X	X	X		

Comments/Special Instructions

Relinquished by: (Signature) [Signature] Printed Name: Dean Malte Company: Kennedy/Jenks Date & Time: 9/20/11 1335

Received by: (Signature) [Signature] Printed Name: Taylor Street Company: ARI Date & Time: 9/20/11 1335

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.



Cooler Receipt Form

ARI Client: Kennedy / Jenks

Project Name: Ecology Corbett Bay

COC No(s): _____ NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: _____

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry) 5.6 3.2

Temp Gun ID#: 90941119

Cooler Accepted by: TG Date: 9-20-11 Time: 1335

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: Box

Was sufficient ice used (if appropriate)? NA YES NO

Were all bottles sealed in individual plastic bags? YES NO

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI NA 9/20/11

Was Sample Split by ARI: NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: AV Date: 9/20/11 Time: 1425

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

TB = CopD

By: AV Date: 9/20/11

			Small → "sm"
			Peabubbles → "pb"
			Large → "lg"
			Headspace → "hs"

Sample ID Cross Reference Report



ARI Job No: TN16
Client: Kennedy Jenks Consultants
Project Event: N/A
Project Name: Ecology Cornet Bay

Sample ID	ARI Lab ID	ARI LIMS ID	Matrix	Sample Date/Time	VTSR
1. MW-1	TN16A	11-20522	Water	09/19/11 11:00	09/20/11 13:35
2. MW-3	TN16B	11-20523	Water	09/19/11 12:25	09/20/11 13:35
3. MW-2	TN16C	11-20524	Water	09/19/11 14:00	09/20/11 13:35
4. MW-100	TN16D	11-20525	Water	09/19/11 17:00	09/20/11 13:35
5. MW-5	TN16E	11-20526	Water	09/20/11 07:30	09/20/11 13:35
6. MW-4	TN16F	11-20527	Water	09/20/11 09:00	09/20/11 13:35
7. MW-6	TN16G	11-20528	Water	09/20/11 10:00	09/20/11 13:35
8. MW-7	TN16H	11-20529	Water	09/20/11 10:50	09/20/11 13:35
9. RB-01	TN16I	11-20530	Water	09/19/11 18:00	09/20/11 13:35
10. Trip Blanks	TN16J	11-20531	Water	09/19/11	09/20/11 13:35
11. MW-1	TN16K	11-20532	Water	09/19/11 11:00	09/20/11 13:35
12. MW-3	TN16L	11-20533	Water	09/19/11 12:25	09/20/11 13:35
13. MW-2	TN16M	11-20534	Water	09/19/11 14:00	09/20/11 13:35
14. MW-100	TN16N	11-20535	Water	09/19/11 17:00	09/20/11 13:35
15. MW-5	TN16O	11-20536	Water	09/20/11 07:30	09/20/11 13:35
16. MW-4	TN16P	11-20537	Water	09/20/11 09:00	09/20/11 13:35
17. MW-6	TN16Q	11-20538	Water	09/20/11 10:00	09/20/11 13:35
18. MW-7	TN16R	11-20539	Water	09/20/11 10:50	09/20/11 13:35

Printed 09/20/11



ARI Job No: TN16
PC: Mark
VTSR: 09/20/11

Inquiry Number: NONE
Analysis Requested: 09/20/11
Contact: Malte, Dean
Client: Kennedy Jenks Consultants
Logged by: AV
Sample Set Used: Yes-481
Validatable Package: No
Deliverables:

Project #: Ecology Cornet Bay
Sample Site:
SDG No:
Analytical Protocol: In-house

LOGNUM	ARI ID	CLIENT ID	CN	WAD	NH3	COD	FOG	MET	PHEN	PHOS	TKN	NO23	TOC	S2	AK102	Fe2+	DMET	DOC	FLT	FLT	FLT	PARAMETER	ADJUSTED	LOT	AMOUNT	DATE/BY
			>12	>12	<2	<2	<2	<2	<2	<2	<2	<2	<2	>9	<2	<2	FLT	FLT	FLT		TO	NUMBER	ADDED			
11-20522	TN16A	MW-1						TOT 9057																		
11-20523	TN16B	MW-3						TOT																		
11-20524	TN16C	MW-2						TOT																		
11-20525	TN16D	MW-100						TOT																		
11-20526	TN16E	MW-5						TOT																		
11-20527	TN16F	MW-4						TOT 9057													L2	111030	2.5ml	9/20/11	KM	
11-20528	TN16G	MW-6						TOT																		
11-20529	TN16H	MW-7						TOT																		
11-20532	TN16K	MW-1						DIS																		
11-20533	TN16L	MW-3						DIS																		
11-20534	TN16M	MW-2						DIS																		
11-20535	TN16N	MW-100						DIS																		
11-20536	TN16O	MW-5						DIS																		
11-20537	TN16P	MW-4						DIS 9057													L2	111030	2.5	9/20/11	KM	

Checked By AV Date 9/20/11



ARI Job No: TN16

Client: Kennedy Jenks Consultants

Project #: Ecology Cornet Bay

LOGNUM	ARI ID	CLIENT ID	CN	WAD	NH3	COD	FOG	MET	PHEN	PHOS	TKN	NO23	TOC	S2	AK102	Fe2+	DMET	DOC	ADJUSTED	LOT	AMOUNT	DATE/BY
			>12	>12	<2	<2	<2	<2	<2	<2	<2	<2	<2	>9	<2	<2	FLT	FLT	TO	NUMBER	ADDED	
11-20538	TN16Q	MW-6						DIS Pass									Y					
11-20539	TN16R	MW-7						DIS									Y					

11 09 2011 09:00

Checked By AV Date 9/20/11



Data Reporting Qualifiers

Effective 2/14/2011

Inorganic Data

- U Indicates that the target analyte was not detected at the reported concentration
- * Duplicate RPD is not within established control limits
- B Reported value is less than the CRDL but \geq the Reporting Limit
- N Matrix Spike recovery not within established control limits
- NA Not Applicable, analyte not spiked
- H The natural concentration of the spiked element is so much greater than the concentration spiked that an accurate determination of spike recovery is not possible
- L Analyte concentration is ≤ 5 times the Reporting Limit and the replicate control limit defaults to ± 1 RL instead of the normal 20% RPD

Organic Data

- U Indicates that the target analyte was not detected at the reported concentration
- * Flagged value is not within established control limits
- B Analyte detected in an associated Method Blank at a concentration greater than one-half of ARI's Reporting Limit or 5% of the regulatory limit or 5% of the analyte concentration in the sample.
- J Estimated concentration when the value is less than ARI's established reporting limits
- D The spiked compound was not detected due to sample extract dilution
- E Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.
- Q Indicates a detected analyte with an initial or continuing calibration that does not meet established acceptance criteria ($< 20\%$ RSD, $< 20\%$ Drift or minimum RRF).



- S Indicates an analyte response that has saturated the detector. The calculated concentration is not valid; a dilution is required to obtain valid quantification of the analyte
- NA The flagged analyte was not analyzed for
- NR Spiked compound recovery is not reported due to chromatographic interference
- NS The flagged analyte was not spiked into the sample
- M Estimated value for an analyte detected and confirmed by an analyst but with low spectral match parameters. This flag is used only for GC-MS analyses
- M2 The sample contains PCB congeners that do not match any standard Aroclor pattern. The PCBs are identified and quantified as the Aroclor whose pattern most closely matches that of the sample. The reported value is an estimate.
- N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification"
- Y The analyte is not detected at or above the reported concentration. The reporting limit is raised due to chromatographic interference. The Y flag is equivalent to the U flag with a raised reporting limit.
- EMPC Estimated Maximum Possible Concentration (EMPC) defined in EPA Statement of Work DLM02.2 as a value "calculated for 2,3,7,8-substituted isomers for which the quantitation and /or confirmation ion(s) has signal to noise in excess of 2.5, but does not meet identification criteria"
(Dioxin/Furan analysis only)
- C The analyte was positively identified on only one of two chromatographic columns. Chromatographic interference prevented a positive identification on the second column
- P The analyte was detected on both chromatographic columns but the quantified values differ by $\geq 40\%$ RPD with no obvious chromatographic interference
- X Analyte signal includes interference from polychlorinated diphenyl ethers.
(Dioxin/Furan analysis only)
- Z Analyte signal includes interference from the sample matrix or perfluorokerosene ions. **(Dioxin/Furan analysis only)**



Geotechnical Data

- A The total of all fines fractions. This flag is used to report total fines when only sieve analysis is requested and balances total grain size with sample weight.
- F Samples were frozen prior to particle size determination
- SM Sample matrix was not appropriate for the requested analysis. This normally refers to samples contaminated with an organic product that interferes with the sieving process and/or moisture content, porosity and saturation calculations
- SS Sample did not contain the proportion of "fines" required to perform the pipette portion of the grain size analysis
- W Weight of sample in some pipette aliquots was below the level required for accurate weighting

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Sample ID: MB-092311

Page 1 of 1

METHOD BLANK


Lab Sample ID: MB-092311

QC Report No: TN16-Kennedy Jenks Consultants

LIMS ID: 11-20522

Project: Ecology Cornet Bay

Matrix: Water

Data Release Authorized: 

Date Sampled: NA

Reported: 09/29/11

Date Received: NA

Instrument/Analyst: VOA_MSD/PKC

Sample Amount: 10.0 mL

Date Analyzed: 09/23/11 11:49

Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.2	< 0.2	U
106-93-4	Ethylene Dibromide	0.2	< 0.2	U
1634-04-4	Methyl tert-Butyl Ether	0.5	< 0.5	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	97.4%
Bromofluorobenzene	96.8%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 1

Sample ID: MW-1
SAMPLE

Lab Sample ID: TN16A

QC Report No: TN16-Kennedy Jenks Consultants

LIMS ID: 11-20522

Project: Ecology Cornet Bay

Matrix: Water

Data Release Authorized: *AB*

Date Sampled: 09/19/11

Reported: 09/29/11

Date Received: 09/20/11

Instrument/Analyst: VOA MSD/PKC

Sample Amount: 10.0 mL

Date Analyzed: 09/23/11 15:10

Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.2	< 0.2	U
106-93-4	Ethylene Dibromide	0.2	< 0.2	U
1634-04-4	Methyl tert-Butyl Ether	0.5	< 0.5	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	97.5%
Bromofluorobenzene	95.4%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Sample ID: MW-3

Page 1 of 1

SAMPLE


Lab Sample ID: TN16B

QC Report No: TN16-Kennedy Jenks Consultants

LIMS ID: 11-20523

Project: Ecology Cornet Bay

Matrix: Water

Data Release Authorized: 

Date Sampled: 09/19/11

Reported: 09/29/11

Date Received: 09/20/11

Instrument/Analyst: VOA MSD/PKC

Sample Amount: 10.0 mL

Date Analyzed: 09/23/11 15:36

Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.2	< 0.2	U
106-93-4	Ethylene Dibromide	0.2	< 0.2	U
1634-04-4	Methyl tert-Butyl Ether	0.5	< 0.5	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	97.9%
Bromofluorobenzene	96.4%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Sample ID: MW-2

Page 1 of 1

SAMPLE


Lab Sample ID: TN16C

QC Report No: TN16-Kennedy Jenks Consultants

LIMS ID: 11-20524

Project: Ecology Cornet Bay

Matrix: Water

Data Release Authorized: 

Date Sampled: 09/19/11

Reported: 09/29/11

Date Received: 09/20/11

Instrument/Analyst: VOA_MSD/PKC

Sample Amount: 10.0 mL

Date Analyzed: 09/23/11 16:03

Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.2	0.2	
106-93-4	Ethylene Dibromide	0.2	< 0.2	U
1634-04-4	Methyl tert-Butyl Ether	0.5	< 0.5	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	107%
Bromofluorobenzene	99.1%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 1

Sample ID: MW-100
SAMPLE


Lab Sample ID: TN16D

QC Report No: TN16-Kennedy Jenks Consultants

LIMS ID: 11-20525

Project: Ecology Cornet Bay

Matrix: Water

Data Release Authorized: 

Date Sampled: 09/19/11

Reported: 09/29/11

Date Received: 09/20/11

Instrument/Analyst: VOA_MSD/PKC

Sample Amount: 10.0 mL

Date Analyzed: 09/23/11 16:30

Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.2	< 0.2	U
106-93-4	Ethylene Dibromide	0.2	< 0.2	U
1634-04-4	Methyl tert-Butyl Ether	0.5	< 0.5	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	107%
Bromofluorobenzene	100%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 1

Sample ID: MW-5
SAMPLE


Lab Sample ID: TN16E

QC Report No: TN16-Kennedy Jenks Consultants

LIMS ID: 11-20526

Project: Ecology Cornet Bay

Matrix: Water

Data Release Authorized: 

Date Sampled: 09/20/11

Reported: 09/29/11

Date Received: 09/20/11

Instrument/Analyst: VOA_MSD/PKC

Sample Amount: 10.0 mL

Date Analyzed: 09/23/11 16:57

Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.2	< 0.2	Y
106-93-4	Ethylene Dibromide	0.2	< 0.2	U
1634-04-4	Methyl tert-Butyl Ether	0.5	< 0.5	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	96.6%
Bromofluorobenzene	97.8%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 1

Sample ID: MW-4
SAMPLE


Lab Sample ID: TN16F

QC Report No: TN16-Kennedy Jenks Consultants

LIMS ID: 11-20527

Project: Ecology Cornet Bay

Matrix: Water

Data Release Authorized: 

Date Sampled: 09/20/11

Reported: 09/29/11

Date Received: 09/20/11

Instrument/Analyst: VOA_MSD/PKC

Sample Amount: 2.00 mL

Date Analyzed: 09/23/11 17:24

Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	1.0	< 1.0	U
106-93-4	Ethylene Dibromide	1.0	< 1.0	U
1634-04-4	Methyl tert-Butyl Ether	2.5	< 2.5	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	96.6%
Bromofluorobenzene	97.6%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Sample ID: MW-6

Page 1 of 1

SAMPLE

Lab Sample ID: TN16G

QC Report No: TN16-Kennedy Jenks Consultants

LIMS ID: 11-20528

Project: Ecology Cornet Bay

Matrix: Water

Data Release Authorized: *AS*

Date Sampled: 09/20/11

Reported: 09/29/11

Date Received: 09/20/11

Instrument/Analyst: VOA_MSD/PKC

Sample Amount: 10.0 mL

Date Analyzed: 09/23/11 17:50

Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.2	< 0.2	U
106-93-4	Ethylene Dibromide	0.2	< 0.2	U
1634-04-4	Methyl tert-Butyl Ether	0.5	< 0.5	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	101%
Bromofluorobenzene	97.8%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 1


Sample ID: MW-7
SAMPLE

Lab Sample ID: TN16H

QC Report No: TN16-Kennedy Jenks Consultants
Project: Ecology Cornet Bay

LIMS ID: 11-20529

Matrix: Water

Data Release Authorized: 

Date Sampled: 09/20/11

Reported: 09/29/11

Date Received: 09/20/11

Instrument/Analyst: VOA_MSD/PKC

Sample Amount: 10.0 mL

Date Analyzed: 09/23/11 18:17

Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.2	< 0.2	U
106-93-4	Ethylene Dibromide	0.2	< 0.2	U
1634-04-4	Methyl tert-Butyl Ether	0.5	< 0.5	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	95.8%
Bromofluorobenzene	97.0%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 1

Sample ID: Trip Blanks
SAMPLE

Lab Sample ID: TN16J

QC Report No: TN16-Kennedy Jenks Consultants

LIMS ID: 11-20531

Project: Ecology Cornet Bay

Matrix: Water

Data Release Authorized: *AB*

Date Sampled: 09/19/11

Reported: 09/29/11

Date Received: 09/20/11

Instrument/Analyst: VOA_MSD/PKC

Sample Amount: 10.0 mL

Date Analyzed: 09/23/11 13:22

Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.2	< 0.2	U
106-93-4	Ethylene Dibromide	0.2	< 0.2	U
1634-04-4	Methyl tert-Butyl Ether	0.5	< 0.5	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	98.4%
Bromofluorobenzene	95.4%

VOA SURROGATE RECOVERY SUMMARY



Matrix: Water

QC Report No: TN16-Kennedy Jenks Consultants
Project: Ecology Cornet Bay

ARI ID	Client ID	PV	DCE	TOL	BFB	DCB	TOT OUT
MB-092311	Method Blank	10	97.4%	NA	96.8%	NA	0
LCS-092311	Lab Control	10	98.1%	NA	98.2%	NA	0
LCSD-092311	Lab Control Dup	10	97.8%	NA	99.6%	NA	0
TN16A	MW-1	10	97.5%	NA	95.4%	NA	0
TN16B	MW-3	10	97.9%	NA	96.4%	NA	0
TN16C	MW-2	10	107%	NA	99.1%	NA	0
TN16D	MW-100	10	107%	NA	100%	NA	0
TN16E	MW-5	10	96.6%	NA	97.8%	NA	0
TN16F	MW-4	10	96.6%	NA	97.6%	NA	0
TN16G	MW-6	10	101%	NA	97.8%	NA	0
TN16H	MW-7	10	95.8%	NA	97.0%	NA	0
TN16J	Trip Blanks	10	98.4%	NA	95.4%	NA	0

LCS/MB LIMITS

QC LIMITS

SW8260C

(DCE) = d4-1,2-Dichloroethane
(TOL) = d8-Toluene
(BFB) = Bromofluorobenzene
(DCB) = d4-1,2-Dichlorobenzene

80-120
80-120
80-120
80-120

80-120
80-120
80-120
80-120

Prep Method: SW5030B
Log Number Range: 11-20522 to 11-20531

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Sample ID: LCS-092311

Page 1 of 1

LAB CONTROL SAMPLE


Lab Sample ID: LCS-092311

QC Report No: TN16-Kennedy Jenks Consultants

LIMS ID: 11-20522

Project: Ecology Cornet Bay

Matrix: Water

Data Release Authorized: 

Date Sampled: NA

Reported: 09/29/11

Date Received: NA

Instrument/Analyst LCS: VOA_MSD/PKC

Sample Amount LCS: 10.0 mL

LCS: VOA_MSD/PKC

LCS: 10.0 mL

Date Analyzed LCS: 09/23/11 10:56

Purge Volume LCS: 10.0 mL

LCS: 09/23/11 11:22

LCS: 10.0 mL

Analyte	LCS	Spike	LCS	LCS	Spike	LCS	RPD
		Added-LCS	Recovery		Added-LCS	Recovery	
1,2-Dichloroethane	9.7	10.0	97.0%	9.8	10.0	98.0%	1.0%
Ethylene Dibromide	10.0	10.0	100%	10.2	10.0	102%	2.0%
Methyl tert-Butyl Ether	9.5	10.0	95.0%	9.9	10.0	99.0%	4.1%

Reported in µg/L (ppb)

RPD calculated using sample concentrations per SW846.

Volatile Surrogate Recovery

	LCS	LCS
d4-1,2-Dichloroethane	98.1%	97.8%
Bromofluorobenzene	98.2%	99.6%

ORGANICS ANALYSIS DATA SHEET

PNAs by SW8270D-SIM GC/MS

Page 1 of 1

Sample ID: MB-092211

METHOD BLANK

Lab Sample ID: MB-092211

LIMS ID: 11-20528

Matrix: Water

Data Release Authorized: *VRB*

Reported: 09/30/11

QC Report No: TN16-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Event: NA

Date Sampled: NA

Date Received: NA

Date Extracted: 09/22/11

Date Analyzed: 09/27/11 18:48

Instrument/Analyst: NT4/JZ

Sample Amount: 500 mL

Final Extract Volume: 0.5 mL

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	0.10	< 0.10 U
91-57-6	2-Methylnaphthalene	0.10	< 0.10 U
90-12-0	1-Methylnaphthalene	0.10	< 0.10 U
208-96-8	Acenaphthylene	0.10	< 0.10 U
83-32-9	Acenaphthene	0.10	< 0.10 U
86-73-7	Fluorene	0.10	< 0.10 U
85-01-8	Phenanthrene	0.10	< 0.10 U
120-12-7	Anthracene	0.10	< 0.10 U
206-44-0	Fluoranthene	0.10	< 0.10 U
129-00-0	Pyrene	0.10	< 0.10 U
56-55-3	Benzo(a)anthracene	0.10	< 0.10 U
218-01-9	Chrysene	0.10	< 0.10 U
50-32-8	Benzo(a)pyrene	0.10	< 0.10 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	< 0.10 U
53-70-3	Dibenz(a,h)anthracene	0.10	< 0.10 U
191-24-2	Benzo(g,h,i)perylene	0.10	< 0.10 U
132-64-9	Dibenzofuran	0.10	< 0.10 U
TOTBFA	Total Benzofluoranthenes	0.10	< 0.10 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 56.7%
d14-Dibenzo(a,h)anthracene 45.7%

ORGANICS ANALYSIS DATA SHEET

PNAs by SW8270D-SIM GC/MS

Page 1 of 1

Sample ID: MW-1

SAMPLE

Lab Sample ID: TN16A

LIMS ID: 11-20522

Matrix: Water

Data Release Authorized: *VB*

Reported: 09/30/11

QC Report No: TN16-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Event: NA

Date Sampled: 09/19/11

Date Received: 09/20/11

Date Extracted: 09/22/11

Date Analyzed: 09/26/11 21:48

Instrument/Analyst: NT4/JZ

Sample Amount: 500 mL

Final Extract Volume: 0.5 mL

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	0.10	0.11
91-57-6	2-Methylnaphthalene	0.10	< 0.10 U
90-12-0	1-Methylnaphthalene	0.10	< 0.10 U
208-96-8	Acenaphthylene	0.10	< 0.10 U
83-32-9	Acenaphthene	0.10	0.21
86-73-7	Fluorene	0.10	< 0.10 U
85-01-8	Phenanthrene	0.10	< 0.10 U
120-12-7	Anthracene	0.10	< 0.10 U
206-44-0	Fluoranthene	0.10	< 0.10 U
129-00-0	Pyrene	0.10	< 0.10 U
56-55-3	Benzo(a)anthracene	0.10	< 0.10 U
218-01-9	Chrysene	0.10	< 0.10 U
50-32-8	Benzo(a)pyrene	0.10	< 0.10 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	< 0.10 U
53-70-3	Dibenz(a,h)anthracene	0.10	< 0.10 U
191-24-2	Benzo(g,h,i)perylene	0.10	< 0.10 U
132-64-9	Dibenzofuran	0.10	< 0.10 U
TOTBFA	Total Benzofluoranthenes	0.10	< 0.10 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 88.0%
d14-Dibenzo(a,h)anthracene 76.7%

ORGANICS ANALYSIS DATA SHEET

PNA's by SW8270D-SIM GC/MS

Page 1 of 1

Sample ID: MW-3

SAMPLE

Lab Sample ID: TN16B

LIMS ID: 11-20523

Matrix: Water

Data Release Authorized: *VJD*

Reported: 09/30/11

QC Report No: TN16-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Event: NA

Date Sampled: 09/19/11

Date Received: 09/20/11

Date Extracted: 09/22/11

Date Analyzed: 09/26/11 22:19

Instrument/Analyst: NT4/JZ

Sample Amount: 500 mL

Final Extract Volume: 0.5 mL

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	0.10	1.5
91-57-6	2-Methylnaphthalene	0.10	1.0
90-12-0	1-Methylnaphthalene	0.10	1.7
208-96-8	Acenaphthylene	0.10	< 0.10 U
83-32-9	Acenaphthene	0.10	0.80
86-73-7	Fluorene	0.10	0.97
85-01-8	Phenanthrene	0.10	0.11 M
120-12-7	Anthracene	0.10	0.31 M
206-44-0	Fluoranthene	0.10	< 0.10 U
129-00-0	Pyrene	0.10	< 0.10 U
56-55-3	Benzo(a)anthracene	0.10	< 0.10 U
218-01-9	Chrysene	0.10	< 0.10 U
50-32-8	Benzo(a)pyrene	0.10	< 0.10 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	< 0.10 U
53-70-3	Dibenzo(a,h)anthracene	0.10	< 0.10 U
191-24-2	Benzo(g,h,i)perylene	0.10	< 0.10 U
132-64-9	Dibenzofuran	0.10	0.47 M
TOTBFA	Total Benzofluoranthenes	0.10	< 0.10 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 77.0%
d14-Dibenzo(a,h)anthracene 66.0%

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D-SIM GC/MS
Page 1 of 1

Sample ID: MW-2
SAMPLE

Lab Sample ID: TN16C
LIMS ID: 11-20524
Matrix: Water
Data Release Authorized: *VPB*
Reported: 09/30/11

QC Report No: TN16-Kennedy Jenks Consultants
Project: Ecology Cornet Bay
Event: NA
Date Sampled: 09/19/11
Date Received: 09/20/11

Date Extracted: 09/22/11
Date Analyzed: 09/26/11 22:50
Instrument/Analyst: NT4/JZ

Sample Amount: 500 mL
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	0.10	100 ES
91-57-6	2-Methylnaphthalene	0.10	81 ES
90-12-0	1-Methylnaphthalene	0.10	89 ES
208-96-8	Acenaphthylene	0.10	< 0.10 U
83-32-9	Acenaphthene	0.10	6.1
86-73-7	Fluorene	0.10	3.8
85-01-8	Phenanthrene	0.10	1.7
120-12-7	Anthracene	0.10	0.21 M
206-44-0	Fluoranthene	0.10	< 0.10 U
129-00-0	Pyrene	0.10	< 0.10 U
56-55-3	Benzo(a)anthracene	0.10	< 0.10 U
218-01-9	Chrysene	0.10	< 0.10 U
50-32-8	Benzo(a)pyrene	0.10	< 0.10 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	< 0.10 U
53-70-3	Dibenz(a,h)anthracene	0.10	< 0.10 U
191-24-2	Benzo(g,h,i)perylene	0.10	< 0.10 U
132-64-9	Dibenzofuran	0.10	1.8 M
TOTBFA	Total Benzofluoranthenes	0.10	< 0.10 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 75.0%
d14-Dibenzo(a,h)anthracene 37.0%

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D-SIM GC/MS
Page 1 of 1

Sample ID: MW-2
DILUTION

Lab Sample ID: TN16C
LIMS ID: 11-20524
Matrix: Water
Data Release Authorized: *VRB*
Reported: 09/30/11

QC Report No: TN16-Kennedy Jenks Consultants
Project: Ecology Cornet Bay
Event: NA
Date Sampled: 09/19/11
Date Received: 09/20/11

Date Extracted: 09/22/11
Date Analyzed: 09/27/11 17:16
Instrument/Analyst: NT4/JZ

Sample Amount: 500 mL
Final Extract Volume: 0.5 mL
Dilution Factor: 30.0

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	3.0	160
91-57-6	2-Methylnaphthalene	3.0	110
90-12-0	1-Methylnaphthalene	3.0	120
208-96-8	Acenaphthylene	3.0	< 3.0 U
83-32-9	Acenaphthene	3.0	8.0
86-73-7	Fluorene	3.0	4.8
85-01-8	Phenanthrene	3.0	< 3.0 U
120-12-7	Anthracene	3.0	< 3.0 U
206-44-0	Fluoranthene	3.0	< 3.0 U
129-00-0	Pyrene	3.0	< 3.0 U
56-55-3	Benzo(a)anthracene	3.0	< 3.0 U
218-01-9	Chrysene	3.0	< 3.0 U
50-32-8	Benzo(a)pyrene	3.0	< 3.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	3.0	< 3.0 U
53-70-3	Dibenz(a,h)anthracene	3.0	< 3.0 U
191-24-2	Benzo(g,h,i)perylene	3.0	< 3.0 U
132-64-9	Dibenzofuran	3.0	< 3.0 U
TOTBFA	Total Benzofluoranthenes	3.0	< 3.0 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene D
d14-Dibenzo(a,h)anthracene D

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D-SIM GC/MS
Page 1 of 1

Sample ID: MW-100
SAMPLE

Lab Sample ID: TN16D
LIMS ID: 11-20525
Matrix: Water
Data Release Authorized: *VIB*
Reported: 09/30/11

QC Report No: TN16-Kennedy Jenks Consultants
Project: Ecology Cornet Bay
Event: NA
Date Sampled: 09/19/11
Date Received: 09/20/11

Date Extracted: 09/22/11
Date Analyzed: 09/27/11 14:12
Instrument/Analyst: NT4/JZ

Sample Amount: 500 mL
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	0.10	100 ES
91-57-6	2-Methylnaphthalene	0.10	84 ES
90-12-0	1-Methylnaphthalene	0.10	97 ES
208-96-8	Acenaphthylene	0.10	< 0.10 U
83-32-9	Acenaphthene	0.10	7.2
86-73-7	Fluorene	0.10	4.5
85-01-8	Phenanthrene	0.10	1.6
120-12-7	Anthracene	0.10	0.22
206-44-0	Fluoranthene	0.10	< 0.10 U
129-00-0	Pyrene	0.10	< 0.10 U
56-55-3	Benzo(a)anthracene	0.10	< 0.10 U
218-01-9	Chrysene	0.10	< 0.10 U
50-32-8	Benzo(a)pyrene	0.10	< 0.10 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	< 0.10 U
53-70-3	Dibenz(a,h)anthracene	0.10	< 0.10 U
191-24-2	Benzo(g,h,i)perylene	0.10	< 0.10 U
132-64-9	Dibenzofuran	0.10	2.1 M
TOTBFA	Total Benzofluoranthenes	0.10	< 0.10 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 83.0%
d14-Dibenzo(a,h)anthracene 43.7%

ORGANICS ANALYSIS DATA SHEET

PNAs by SW8270D-SIM GC/MS

Page 1 of 1

Sample ID: MW-100

DILUTION

Lab Sample ID: TN16D

LIMS ID: 11-20525

Matrix: Water

Data Release Authorized: *VP*

Reported: 09/30/11

QC Report No: TN16-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Event: NA

Date Sampled: 09/19/11

Date Received: 09/20/11

Date Extracted: 09/22/11

Date Analyzed: 09/28/11 22:35

Instrument/Analyst: NT4/JZ

Sample Amount: 500 mL

Final Extract Volume: 0.5 mL

Dilution Factor: 30.0

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	3.0	160
91-57-6	2-Methylnaphthalene	3.0	110
90-12-0	1-Methylnaphthalene	3.0	130
208-96-8	Acenaphthylene	3.0	< 3.0 U
83-32-9	Acenaphthene	3.0	8.3
86-73-7	Fluorene	3.0	4.6
85-01-8	Phenanthrene	3.0	< 3.0 U
120-12-7	Anthracene	3.0	< 3.0 U
206-44-0	Fluoranthene	3.0	< 3.0 U
129-00-0	Pyrene	3.0	< 3.0 U
56-55-3	Benzo(a)anthracene	3.0	< 3.0 U
218-01-9	Chrysene	3.0	< 3.0 U
50-32-8	Benzo(a)pyrene	3.0	< 3.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	3.0	< 3.0 U
53-70-3	Dibenz(a,h)anthracene	3.0	< 3.0 U
191-24-2	Benzo(g,h,i)perylene	3.0	< 3.0 U
132-64-9	Dibenzofuran	3.0	< 3.0 U
TOTBFA	Total Benzofluoranthenes	3.0	< 3.0 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene D
d14-Dibenzo(a,h)anthracene D

ORGANICS ANALYSIS DATA SHEET

PNAs by SW8270D-SIM GC/MS

Page 1 of 1

Sample ID: MW-5

SAMPLE

Lab Sample ID: TN16E

LIMS ID: 11-20526

Matrix: Water

Data Release Authorized: **VI B**

Reported: 09/30/11

QC Report No: TN16-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Event: NA

Date Sampled: 09/20/11

Date Received: 09/20/11

Date Extracted: 09/22/11

Date Analyzed: 09/27/11 12:05

Instrument/Analyst: NT4/JZ

Sample Amount: 500 mL

Final Extract Volume: 0.5 mL

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	0.10	1.0
91-57-6	2-Methylnaphthalene	0.10	0.28
90-12-0	1-Methylnaphthalene	0.10	30 E
208-96-8	Acenaphthylene	0.10	< 0.10 U
83-32-9	Acenaphthene	0.10	5.0
86-73-7	Fluorene	0.10	2.4
85-01-8	Phenanthrene	0.10	1.0
120-12-7	Anthracene	0.10	0.23
206-44-0	Fluoranthene	0.10	0.27
129-00-0	Pyrene	0.10	0.20
56-55-3	Benzo(a)anthracene	0.10	< 0.10 U
218-01-9	Chrysene	0.10	< 0.10 U
50-32-8	Benzo(a)pyrene	0.10	< 0.10 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	< 0.10 U
53-70-3	Dibenz(a,h)anthracene	0.10	< 0.10 U
191-24-2	Benzo(g,h,i)perylene	0.10	< 0.10 U
132-64-9	Dibenzofuran	0.10	1.4
TOTBFA	Total Benzofluoranthenes	0.10	< 0.10 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 83.7%
d14-Dibenzo(a,h)anthracene 51.3%

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D-SIM GC/MS
Page 1 of 1

Sample ID: MW-5
DILUTION

Lab Sample ID: TN16E
LIMS ID: 11-20526
Matrix: Water
Data Release Authorized: *VB*
Reported: 09/30/11

QC Report No: TN16-Kennedy Jenks Consultants
Project: Ecology Cornet Bay
Event: NA
Date Sampled: 09/20/11
Date Received: 09/20/11

Date Extracted: 09/22/11
Date Analyzed: 09/28/11 23:06
Instrument/Analyst: NT4/JZ

Sample Amount: 500 mL
Final Extract Volume: 0.5 mL
Dilution Factor: 5.00

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	0.50	1.2
91-57-6	2-Methylnaphthalene	0.50	< 0.50 U
90-12-0	1-Methylnaphthalene	0.50	34
208-96-8	Acenaphthylene	0.50	< 0.50 U
83-32-9	Acenaphthene	0.50	5.3
86-73-7	Fluorene	0.50	2.6
85-01-8	Phenanthrene	0.50	1.1
120-12-7	Anthracene	0.50	< 0.50 U
206-44-0	Fluoranthene	0.50	< 0.50 U
129-00-0	Pyrene	0.50	< 0.50 U
56-55-3	Benzo(a)anthracene	0.50	< 0.50 U
218-01-9	Chrysene	0.50	< 0.50 U
50-32-8	Benzo(a)pyrene	0.50	< 0.50 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.50	< 0.50 U
53-70-3	Dibenz(a,h)anthracene	0.50	< 0.50 U
191-24-2	Benzo(g,h,i)perylene	0.50	< 0.50 U
132-64-9	Dibenzofuran	0.50	1.5
TOTBFA	Total Benzofluoranthenes	0.50	< 0.50 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 81.7%
d14-Dibenzo(a,h)anthracene 40.0%

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D-SIM GC/MS
Page 1 of 1

Sample ID: MW-4
SAMPLE

Lab Sample ID: TN16F
LIMS ID: 11-20527
Matrix: Water
Data Release Authorized: *VTB*
Reported: 09/30/11

QC Report No: TN16-Kennedy Jenks Consultants
Project: Ecology Cornet Bay
Event: NA
Date Sampled: 09/20/11
Date Received: 09/20/11

Date Extracted: 09/22/11
Date Analyzed: 09/27/11 12:36
Instrument/Analyst: NT4/JZ

Sample Amount: 500 mL
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	0.10	210 ES
91-57-6	2-Methylnaphthalene	0.10	59 ES
90-12-0	1-Methylnaphthalene	0.10	65 ES
208-96-8	Acenaphthylene	0.10	1.2
83-32-9	Acenaphthene	0.10	69 ES
86-73-7	Fluorene	0.10	30 E
85-01-8	Phenanthrene	0.10	25 E
120-12-7	Anthracene	0.10	1.8
206-44-0	Fluoranthene	0.10	1.7
129-00-0	Pyrene	0.10	0.96
56-55-3	Benzo (a) anthracene	0.10	< 0.10 U
218-01-9	Chrysene	0.10	< 0.10 U
50-32-8	Benzo (a) pyrene	0.10	< 0.10 U
193-39-5	Indeno (1, 2, 3-cd) pyrene	0.10	< 0.10 U
53-70-3	Dibenz (a, h) anthracene	0.10	< 0.10 U
191-24-2	Benzo (g, h, i) perylene	0.10	< 0.10 U
132-64-9	Dibenzofuran	0.10	29 E
TOTBFA	Total Benzofluoranthenes	0.10	< 0.10 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 74.0%
d14-Dibenzo(a,h)anthracene 29.7%

ORGANICS ANALYSIS DATA SHEET

PNAs by SW8270D-SIM GC/MS

Page 1 of 1

Sample ID: MW-4

DILUTION

Lab Sample ID: TN16F

LIMS ID: 11-20527

Matrix: Water

Data Release Authorized: *VRB*

Reported: 09/30/11

QC Report No: TN16-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Event: NA

Date Sampled: 09/20/11

Date Received: 09/20/11

Date Extracted: 09/22/11

Date Analyzed: 09/28/11 18:58

Instrument/Analyst: NT4/JZ

Sample Amount: 500 mL

Final Extract Volume: 0.5 mL

Dilution Factor: 200

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	20	1,200
91-57-6	2-Methylnaphthalene	20	98
90-12-0	1-Methylnaphthalene	20	120
208-96-8	Acenaphthylene	20	< 20 U
83-32-9	Acenaphthene	20	97
86-73-7	Fluorene	20	37
85-01-8	Phenanthrene	20	33
120-12-7	Anthracene	20	< 20 U
206-44-0	Fluoranthene	20	< 20 U
129-00-0	Pyrene	20	< 20 U
56-55-3	Benzo(a)anthracene	20	< 20 U
218-01-9	Chrysene	20	< 20 U
50-32-8	Benzo(a)pyrene	20	< 20 U
193-39-5	Indeno(1,2,3-cd)pyrene	20	< 20 U
53-70-3	Dibenz(a,h)anthracene	20	< 20 U
191-24-2	Benzo(g,h,i)perylene	20	< 20 U
132-64-9	Dibenzofuran	20	37
TOTBFA	Total Benzofluoranthenes	20	< 20 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene D
d14-Dibenzo(a,h)anthracene D

ORGANICS ANALYSIS DATA SHEET

PNAs by SW8270D-SIM GC/MS

Page 1 of 1

Sample ID: MW-6

SAMPLE

Lab Sample ID: TN16G

LIMS ID: 11-20528

Matrix: Water

Data Release Authorized: *VD*

Reported: 09/30/11

QC Report No: TN16-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Event: NA

Date Sampled: 09/20/11

Date Received: 09/20/11

Date Extracted: 09/22/11

Date Analyzed: 09/27/11 13:07

Instrument/Analyst: NT4/JZ

Sample Amount: 500 mL

Final Extract Volume: 0.5 mL

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	0.10	1.7
91-57-6	2-Methylnaphthalene	0.10	0.15
90-12-0	1-Methylnaphthalene	0.10	11 E
208-96-8	Acenaphthylene	0.10	< 0.10 U
83-32-9	Acenaphthene	0.10	1.9 M
86-73-7	Fluorene	0.10	1.2
85-01-8	Phenanthrene	0.10	0.23
120-12-7	Anthracene	0.10	0.11
206-44-0	Fluoranthene	0.10	< 0.10 U
129-00-0	Pyrene	0.10	< 0.10 U
56-55-3	Benzo(a)anthracene	0.10	< 0.10 U
218-01-9	Chrysene	0.10	< 0.10 U
50-32-8	Benzo(a)pyrene	0.10	< 0.10 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	< 0.10 U
53-70-3	Dibenz(a,h)anthracene	0.10	< 0.10 U
191-24-2	Benzo(g,h,i)perylene	0.10	< 0.10 U
132-64-9	Dibenzofuran	0.10	0.72 M
TOTBFA	Total Benzofluoranthenes	0.10	< 0.10 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 80.7%
d14-Dibenzo(a,h)anthracene 48.3%

ORGANICS ANALYSIS DATA SHEET

PNAs by SW8270D-SIM GC/MS

Page 1 of 1



Sample ID: MW-6

DILUTION

Lab Sample ID: TN16G

LIMS ID: 11-20528

Matrix: Water

Data Release Authorized: *VTS*

Reported: 09/30/11

QC Report No: TN16-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Event: NA

Date Sampled: 09/20/11

Date Received: 09/20/11

Date Extracted: 09/22/11

Date Analyzed: 09/28/11 23:37

Instrument/Analyst: NT4/JZ

Sample Amount: 500 mL

Final Extract Volume: 0.5 mL

Dilution Factor: 3.00

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	0.30	1.7
91-57-6	2-Methylnaphthalene	0.30	< 0.30 U
90-12-0	1-Methylnaphthalene	0.30	11
208-96-8	Acenaphthylene	0.30	< 0.30 U
83-32-9	Acenaphthene	0.30	1.9
86-73-7	Fluorene	0.30	1.2
85-01-8	Phenanthrene	0.30	< 0.30 U
120-12-7	Anthracene	0.30	< 0.30 U
206-44-0	Fluoranthene	0.30	< 0.30 U
129-00-0	Pyrene	0.30	< 0.30 U
56-55-3	Benzo(a)anthracene	0.30	< 0.30 U
218-01-9	Chrysene	0.30	< 0.30 U
50-32-8	Benzo(a)pyrene	0.30	< 0.30 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.30	< 0.30 U
53-70-3	Dibenz(a,h)anthracene	0.30	< 0.30 U
191-24-2	Benzo(g,h,i)perylene	0.30	< 0.30 U
132-64-9	Dibenzofuran	0.30	0.75
TOTBFA	Total Benzofluoranthenes	0.30	< 0.30 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 78.0%
d14-Dibenzo(a,h)anthracene 37.0%

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D-SIM GC/MS
Page 1 of 1

Sample ID: MW-7
SAMPLE

Lab Sample ID: TN16H
LIMS ID: 11-20529
Matrix: Water
Data Release Authorized: *VJB*
Reported: 09/30/11

QC Report No: TN16-Kennedy Jenks Consultants
Project: Ecology Cornet Bay
Event: NA
Date Sampled: 09/20/11
Date Received: 09/20/11

Date Extracted: 09/22/11
Date Analyzed: 09/27/11 13:38
Instrument/Analyst: NT4/JZ

Sample Amount: 500 mL
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	0.10	0.31
91-57-6	2-Methylnaphthalene	0.10	< 0.10 U
90-12-0	1-Methylnaphthalene	0.10	0.12
208-96-8	Acenaphthylene	0.10	< 0.10 U
83-32-9	Acenaphthene	0.10	< 0.10 U
86-73-7	Fluorene	0.10	< 0.10 U
85-01-8	Phenanthrene	0.10	< 0.10 U
120-12-7	Anthracene	0.10	< 0.10 U
206-44-0	Fluoranthene	0.10	< 0.10 U
129-00-0	Pyrene	0.10	< 0.10 U
56-55-3	Benzo(a)anthracene	0.10	< 0.10 U
218-01-9	Chrysene	0.10	< 0.10 U
50-32-8	Benzo(a)pyrene	0.10	< 0.10 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	< 0.10 U
53-70-3	Dibenzo(a,h)anthracene	0.10	< 0.10 U
191-24-2	Benzo(g,h,i)perylene	0.10	< 0.10 U
132-64-9	Dibenzofuran	0.10	< 0.10 U
TOTBFA	Total Benzofluoranthenes	0.10	< 0.10 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 78.3%
d14-Dibenzo(a,h)anthracene 12.7%

SIM SW8270 SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: TN16-Kennedy Jenks Consultants
Project: Ecology Cornet Bay

Client ID	MNP	DBA	TOT OUT
MW-1	88.0%	76.7%	0
MW-3	77.0%	66.0%	0
MW-2	75.0%	37.0%	0
MW-2 DL	D	D	0
MW-100	83.0%	43.7%	0
MW-100 DL	D	D	0
MW-5	83.7%	51.3%	0
MW-5 DL	81.7%	40.0%	0
MW-4	74.0%	29.7%	0
MW-4 DL	D	D	0
ME-092211	56.7%	45.7%	0
LCS-092211	81.3%	73.0%	0
LCSD-092211	83.3%	66.0%	0
MW-6	80.7%	48.3%	0
MW-6 DL	78.0%	37.0%	0
MW-7	78.3%	12.7%	0

LCS/MB LIMITS QC LIMITS

(MNP) = d10-2-Methylnaphthalene (40-110) (33-107)
(DBA) = d14-Dibenzo(a,h)anthracene (33-140) (10-142)

Prep Method: SW3520C
Log Number Range: 11-20522 to 11-20529

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D-SIM GC/MS
Page 1 of 1

Sample ID: LCS-092211
LAB CONTROL SAMPLE

Lab Sample ID: LCS-092211
LIMS ID: 11-20528
Matrix: Water
Data Release Authorized: *VTS*
Reported: 09/30/11

QC Report No: TN16-Kennedy Jenks Consultants
Project: Ecology Cornet Bay
Event: NA
Date Sampled: NA
Date Received: NA

Date Extracted LCS/LCSD: 09/22/11
Date Analyzed LCS: 09/26/11 20:15
LCSD: 09/26/11 20:46
Instrument/Analyst LCS: NT4/JZ
LCSD: NT4/JZ

Sample Amount LCS: 500 mL
LCSD: 500 mL
Final Extract Volume LCS: 0.50 mL
LCSD: 0.50 mL
Dilution Factor LCS: 1.00
LCSD: 1.00

Analyte	Spike		LCS		Spike		LCSD		RPD
	LCS	Added-LCS	Recovery	LCSD	Added-LCSD	Recovery	LCSD		
Naphthalene	2.15	3.00	71.7%	2.27	3.00	75.7%	5.4%		
2-Methylnaphthalene	2.04	3.00	68.0%	2.12	3.00	70.7%	3.8%		
1-Methylnaphthalene	2.28	3.00	76.0%	2.40	3.00	80.0%	5.1%		
Acenaphthylene	2.34	3.00	78.0%	2.60	3.00	86.7%	10.5%		
Acenaphthene	2.17	3.00	72.3%	2.43	3.00	81.0%	11.3%		
Fluorene	2.33	3.00	77.7%	2.54	3.00	84.7%	8.6%		
Phenanthrene	2.38	3.00	79.3%	2.65	3.00	88.3%	10.7%		
Anthracene	2.52	3.00	84.0%	3.08	3.00	103%	20.0%		
Fluoranthene	2.67	3.00	89.0%	2.87	3.00	95.7%	7.2%		
Pyrene	2.67	3.00	89.0%	2.83	3.00	94.3%	5.8%		
Benzo(a)anthracene	2.93	3.00	97.7%	3.01	3.00	100%	2.7%		
Chrysene	2.55	3.00	85.0%	2.82	3.00	94.0%	10.1%		
Benzo(a)pyrene	2.26	3.00	75.3%	2.48	3.00	82.7%	9.3%		
Indeno(1,2,3-cd)pyrene	2.45	3.00	81.7%	2.39	3.00	79.7%	2.5%		
Dibenz(a,h)anthracene	2.12	3.00	70.7%	1.84	3.00	61.3%	14.1%		
Benzo(g,h,i)perylene	2.42	3.00	80.7%	2.18	3.00	72.7%	10.4%		
Dibenzofuran	2.13	3.00	71.0%	2.34	3.00	78.0%	9.4%		
Total Benzofluoranthenes	4.92	6.00	82.0%	5.73	6.00	95.5%	15.2%		

Reported in µg/L (ppb)

RPD calculated using sample concentrations per SW846.

SIM Semivolatile Surrogate Recovery

	LCS	LCSD
d10-2-Methylnaphthalene	81.3%	83.3%
d14-Dibenzo(a,h)anthracene	73.0%	66.0%

**ORGANICS ANALYSIS DATA SHEET
TOTAL DIESEL RANGE HYDROCARBONS**

NWTPHD by GC/FID-Silica and Acid Cleaned
Page 1 of 1
Matrix: Water

QC Report No: TN16-Kennedy Jenks Consultants
Project: Ecology Cornet Bay

Data Release Authorized: *MW*
Reported: 09/29/11

ARI ID	Sample ID	Extraction Date	Analysis Date	EFV DL	Range	RL	Result
MB-092211 11-20522	Method Blank HC ID: ---	09/22/11	09/28/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	0.10 0.20	< 0.10 U < 0.20 U 86.5%
TN16A 11-20522	MW-1 HC ID: ---	09/22/11	09/28/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	0.10 0.20	< 0.10 U < 0.20 U 79.1%
TN16B 11-20523	MW-3 HC ID: DIESEL	09/22/11	09/28/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	0.10 0.20	1.6 < 0.20 U 79.9%
TN16C 11-20524	MW-2 HC ID: DIESEL	09/22/11	09/28/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	0.10 0.20	0.85 < 0.20 U 83.8%
TN16D 11-20525	MW-100 HC ID: DIESEL	09/22/11	09/28/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	0.10 0.20	0.86 < 0.20 U 82.0%
TN16E 11-20526	MW-5 HC ID: DIESEL	09/22/11	09/28/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	0.10 0.20	0.17 < 0.20 U 74.8%
TN16F 11-20527	MW-4 HC ID: DIESEL	09/22/11	09/28/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	0.10 0.20	0.40 < 0.20 U 73.1%
TN16G 11-20528	MW-6 HC ID: DIESEL	09/22/11	09/28/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	0.10 0.20	0.29 < 0.20 U 62.4%
TN16H 11-20529	MW-7 HC ID: ---	09/22/11	09/28/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	0.10 0.20	< 0.10 U < 0.20 U 84.8%
TN16I 11-20530	RB-01 HC ID: ---	09/22/11	09/28/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	0.10 0.20	< 0.10 U < 0.20 U 91.0%

Reported in mg/L (ppm)

EFV-Effective Final Volume in mL.

DL-Dilution of extract prior to analysis.

RL-Reporting limit.

Diesel quantitation on total peaks in the range from C12 to C24.

Motor Oil quantitation on total peaks in the range from C24 to C38.

HC ID: DRO/RRO indicate results of organics or additional hydrocarbons in ranges are not identifiable.

Data File: /chem3/fid4a.i/20110927a_b/0927a083.d

Date : 28-SEP-2011 19:30

Client ID: TN16HBM1

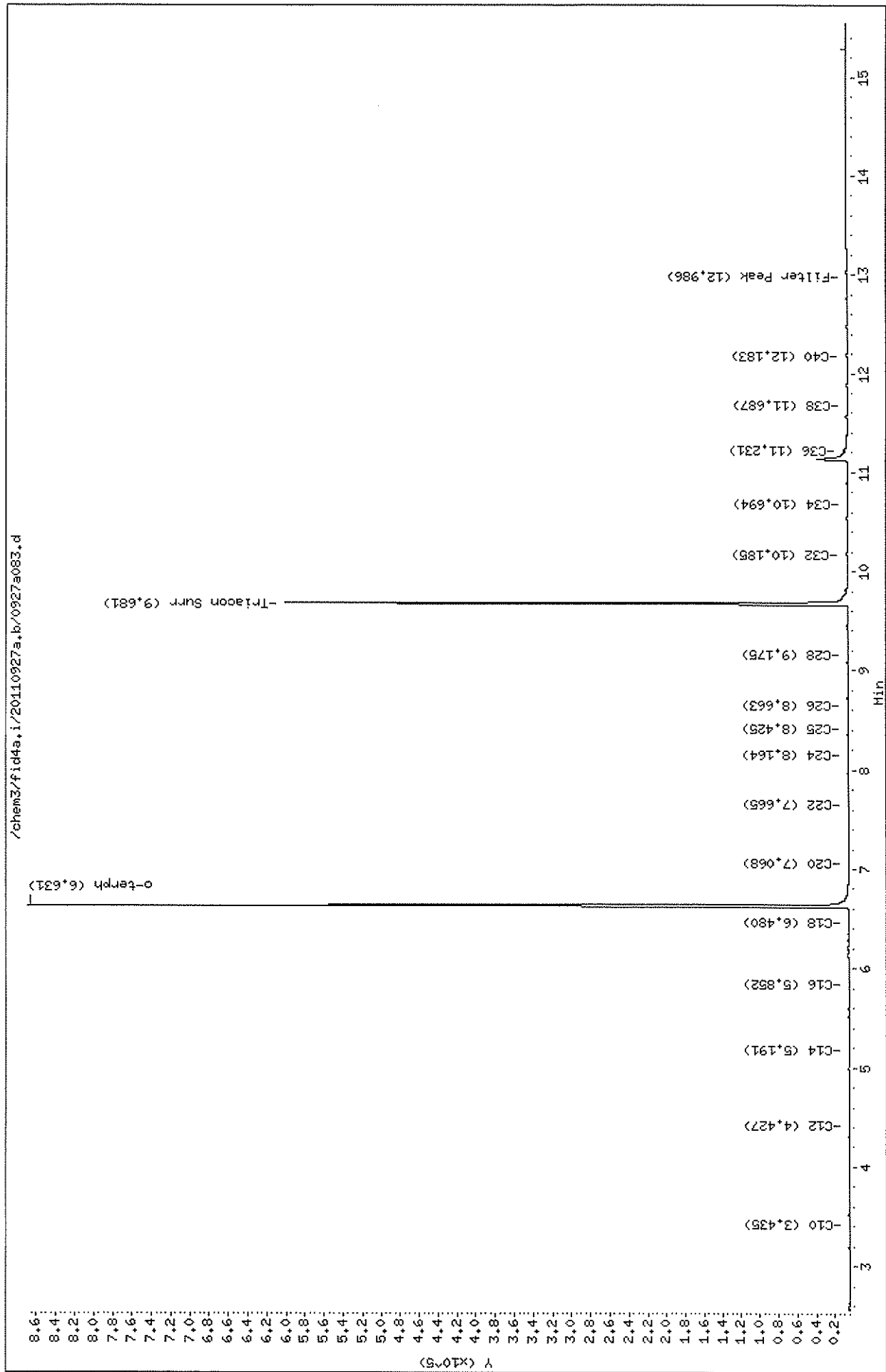
Sample Info: TN16HBM1

Instrument: fid4a.i

Operator: MS

Column diameter: 0.25

Column phase: RTX-1



Data File: /chem3/fid4a.i/20110927a.b/0927a065.d

Date : 28-SEP-2011 12:31

Client ID: MW-1

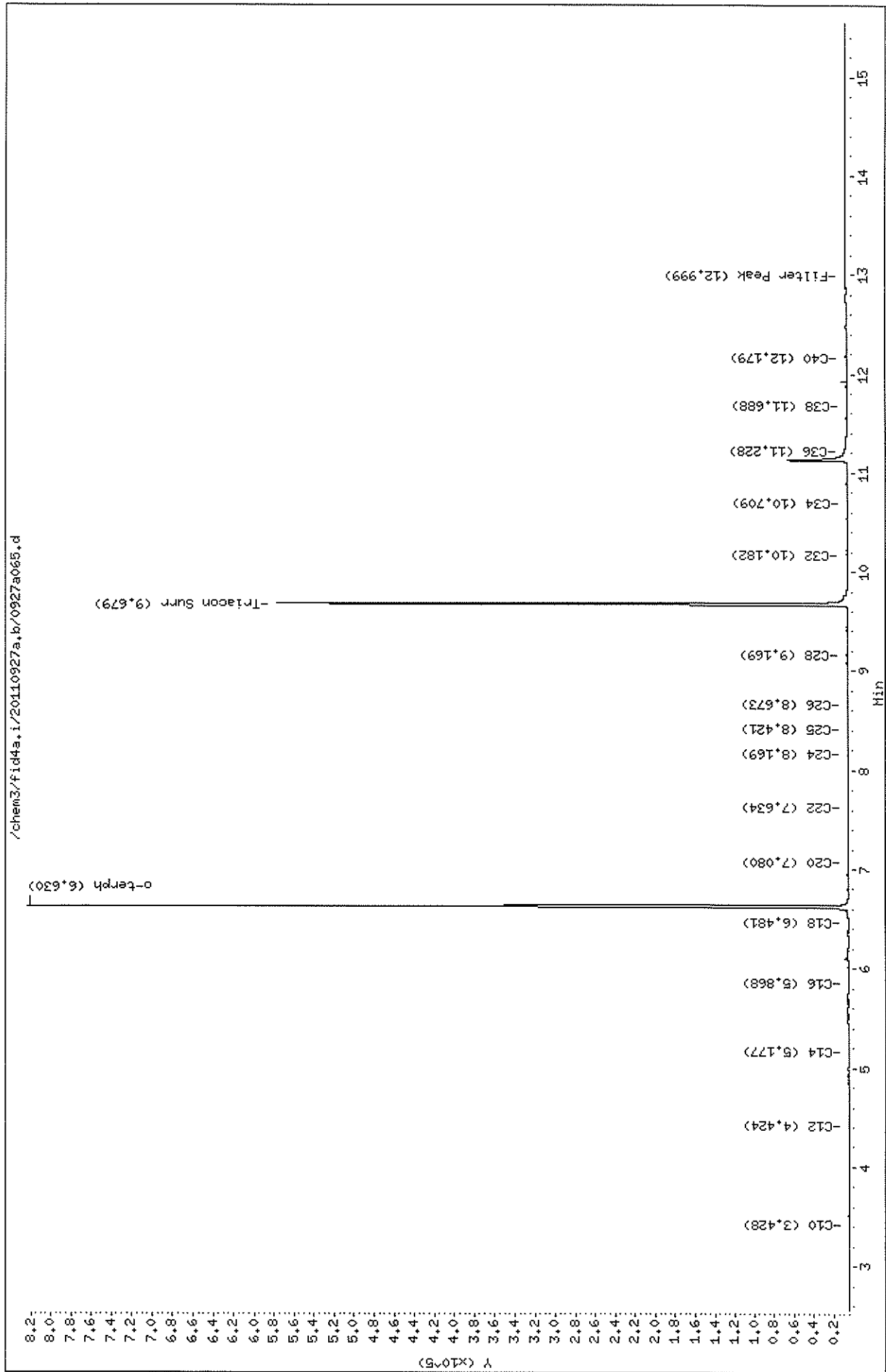
Sample Info: TN116A

Instrument: fid4a.i

Operator: MS

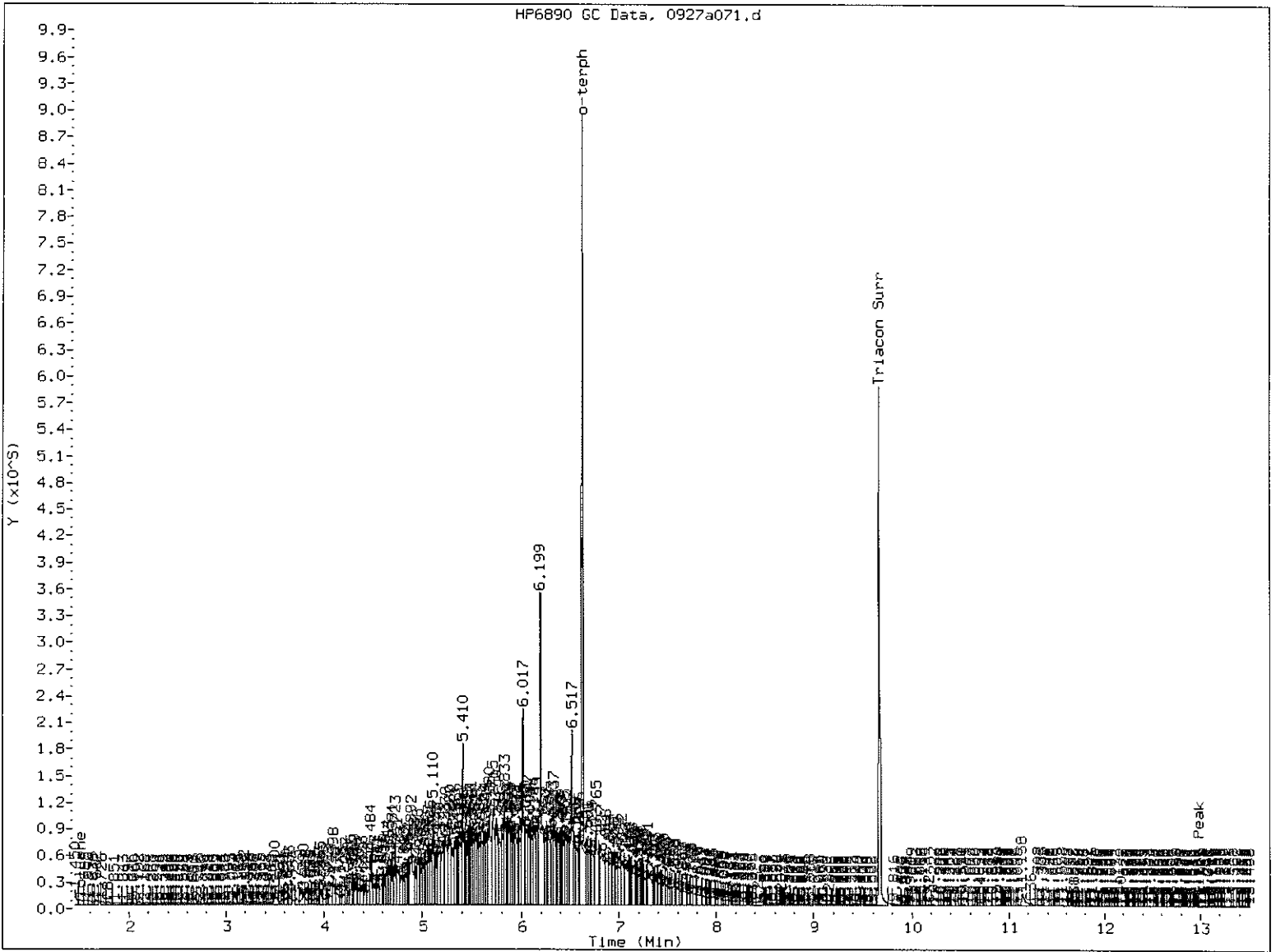
Column diameter: 0.25

Column phase: RTX-1



07 09 09 : 09 44 34 PM

HP6890 GC Data, 0927a071.d



MANUAL INTEGRATION

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

✓ 5. Other Surr pk overlap

Analyst: AR

Date: 9/29/2011

Data File: /chem3/fid4a.i/20110927a.b/0927a071.d

Date : 28-SEP-2011 14:51

Client ID: MW-3

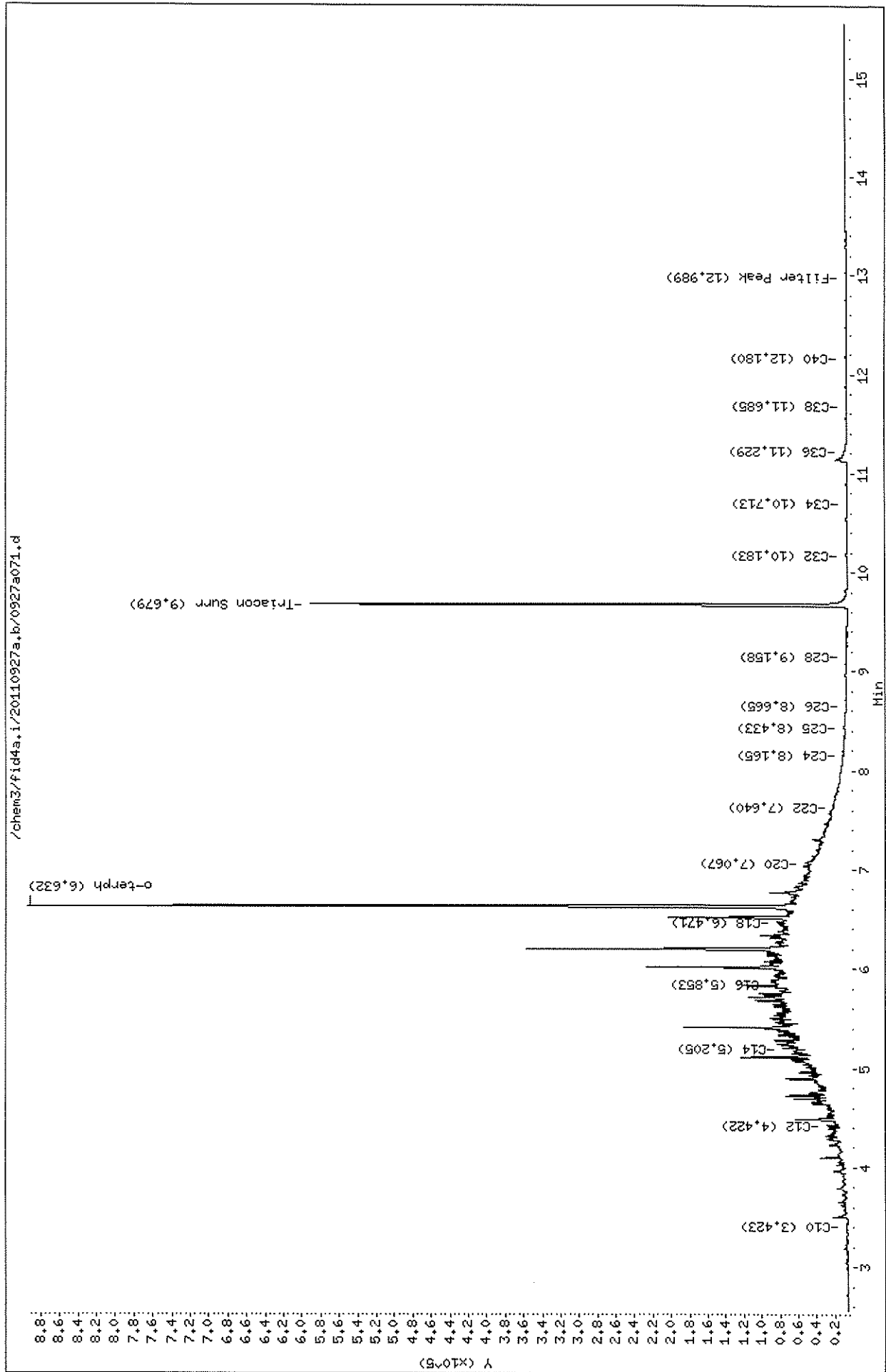
Sample Info: TN16B

Instrument: fid4a.i

Operator: MS

Column diameter: 0.25

Column phase: RTX-1



256666 : 0444

Data File: /chem3/fid4a.i/20110927a.b/0927a072.d

Date : 28-SEP-2011 15:14

Client ID: MW-2

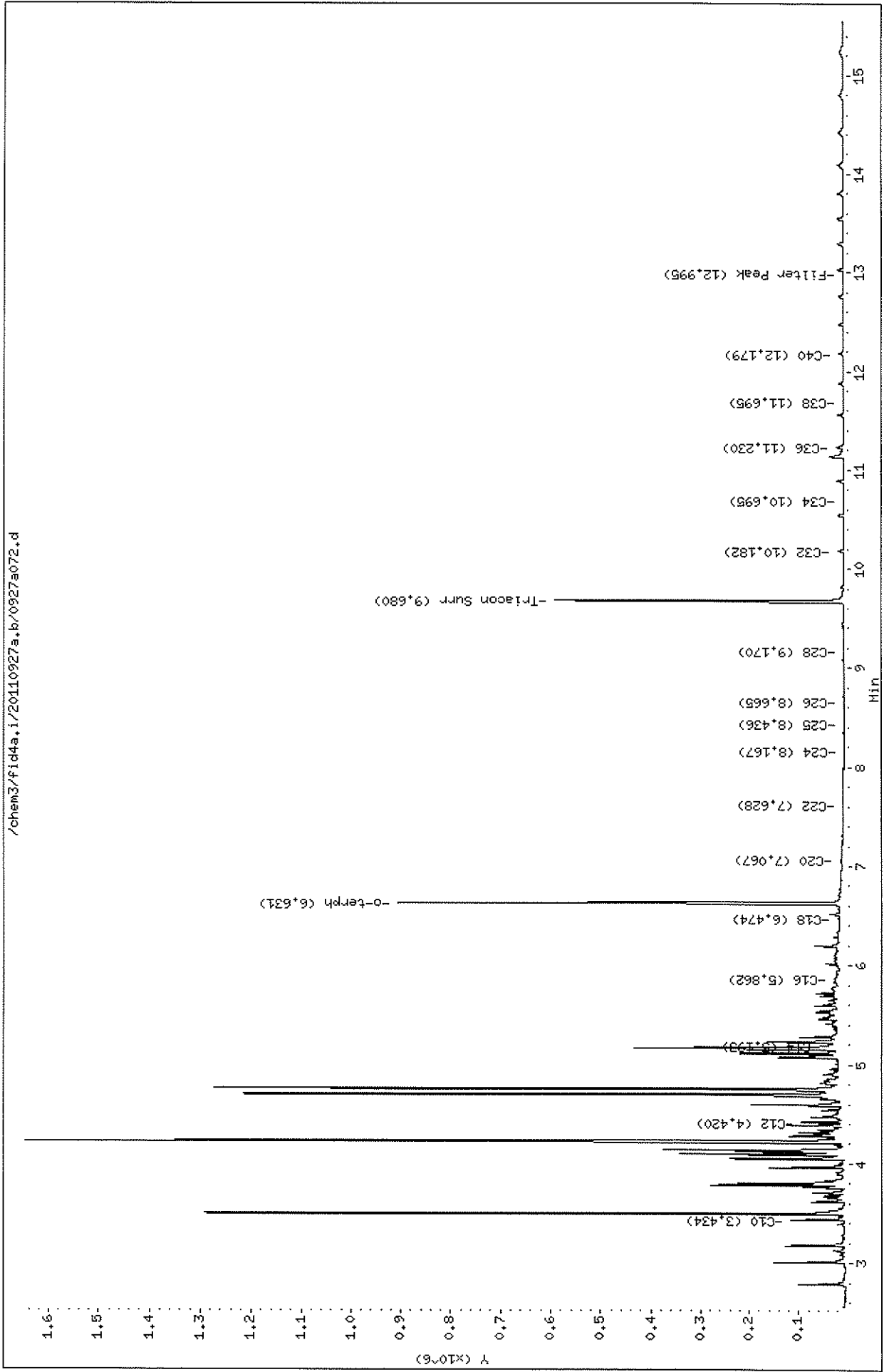
Sample Info: TN16C

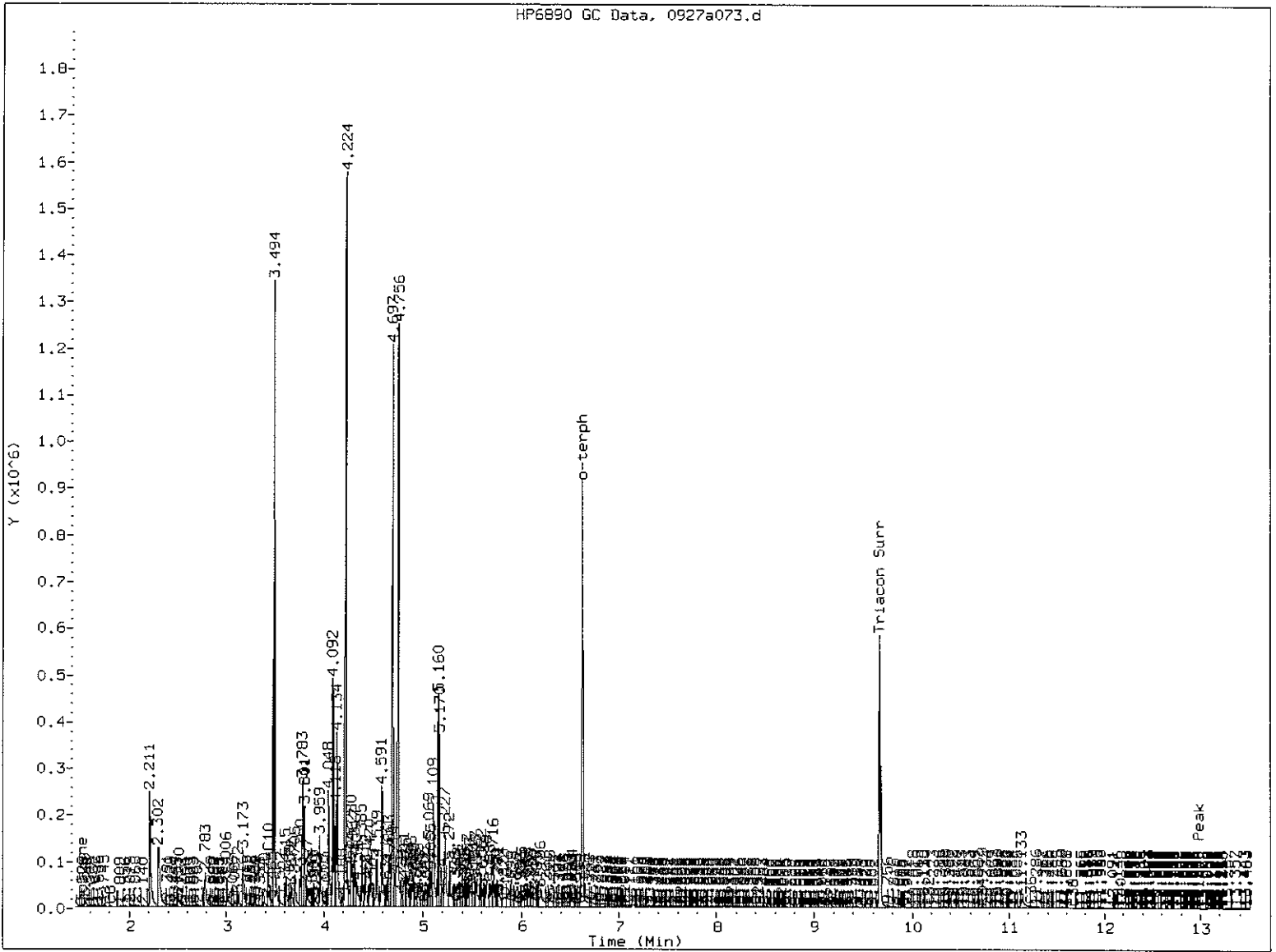
Instrument: fid4a.i

Operator: MS

Column diameter: 0.25

Column phase: RTX-1





MANUAL INTEGRATION

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

5. Other Surr pk overlap

Analyst: AR

Date: 9/29/2011

Data File: /chem3/fid4a.i/20110927a.b/0927a073.d

Date: 28-SEP-2011 15:37

Client ID: MM-100

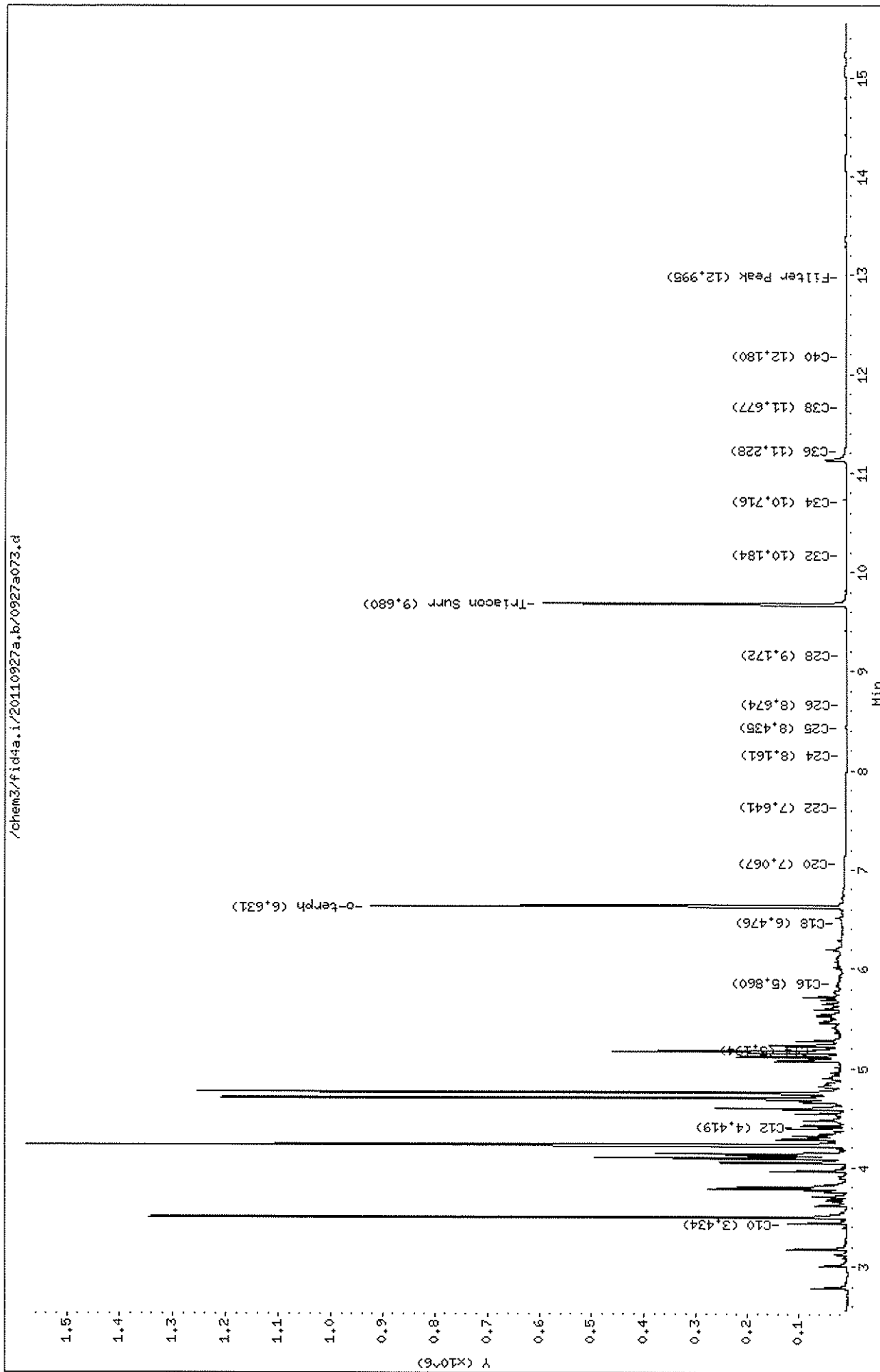
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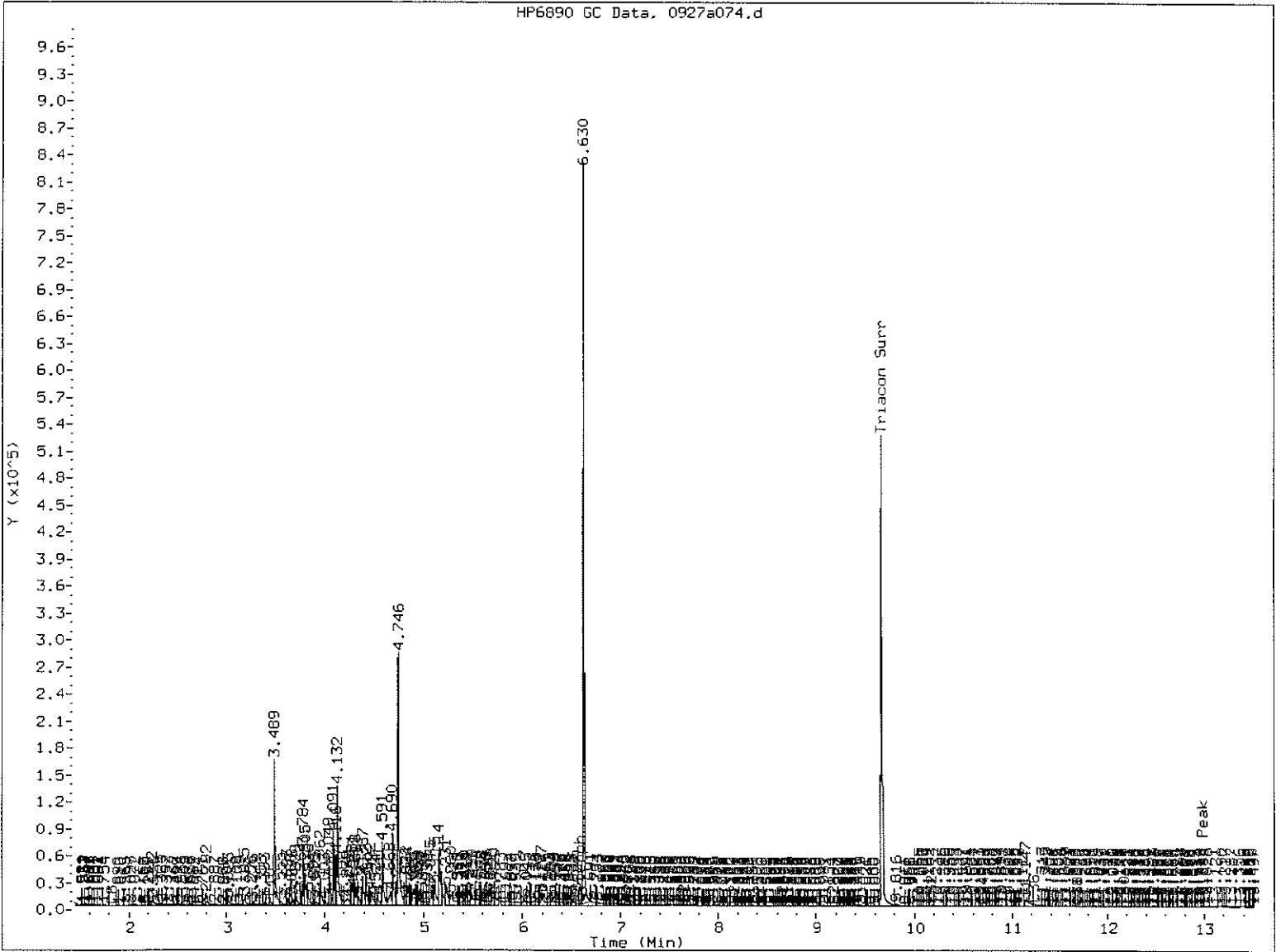
Instrument: fid4a.i

Operator: MS

Column diameter: 0.25

Column phase: RTX-1





MANUAL INTEGRATION

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other Surr pk. overlap

Analyst: AR Date: 9/29/2011

Data File: /chem3/fid4a.i/20110927a.b/0927a074.d

Date : 28-SEP-2011 16:01

Client ID: MM-5

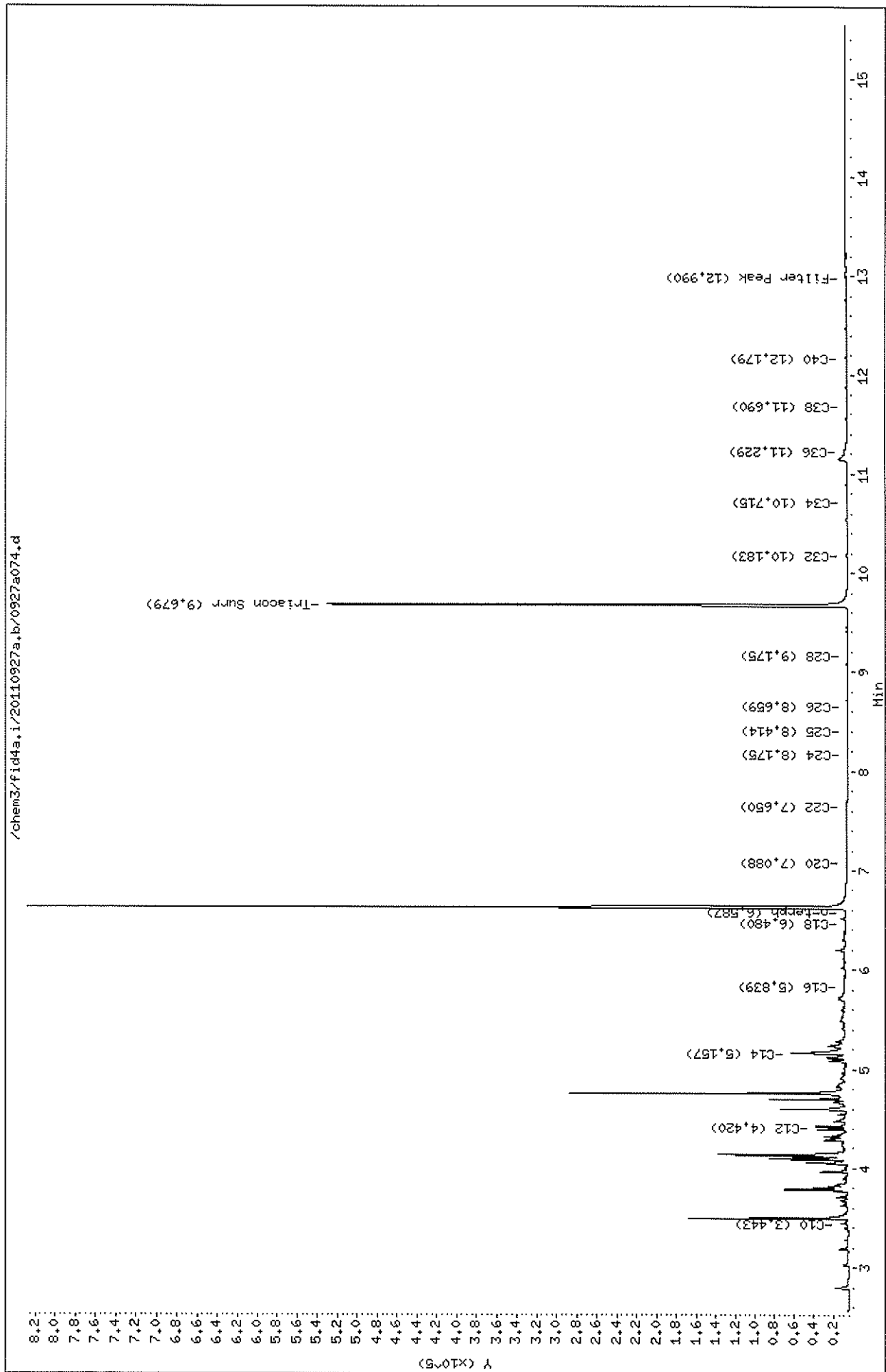
Sample Info: TH16E

Instrument: fid4a.i

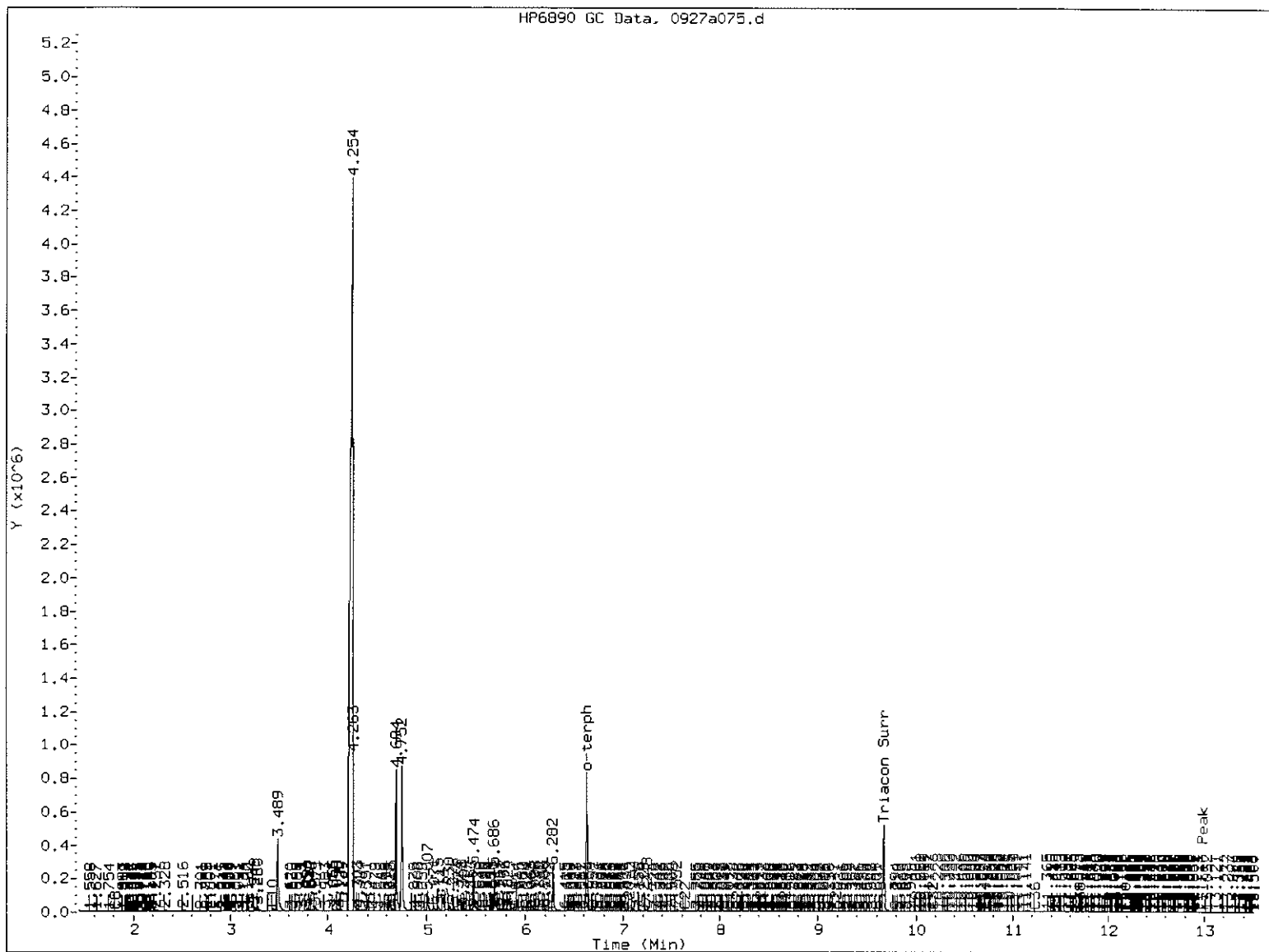
Operator: MS

Column diameter: 0.25

Column phase: RTX-1



070909 : 0447



MANUAL INTEGRATION

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. other Surr pk overlap

Analyst: AR Date: 9/29/2011

Data File: /chem3/fid4a.i/20110927a.b/0927a075.d

Date : 28-SEP-2011 16:24

Client ID: MH-4

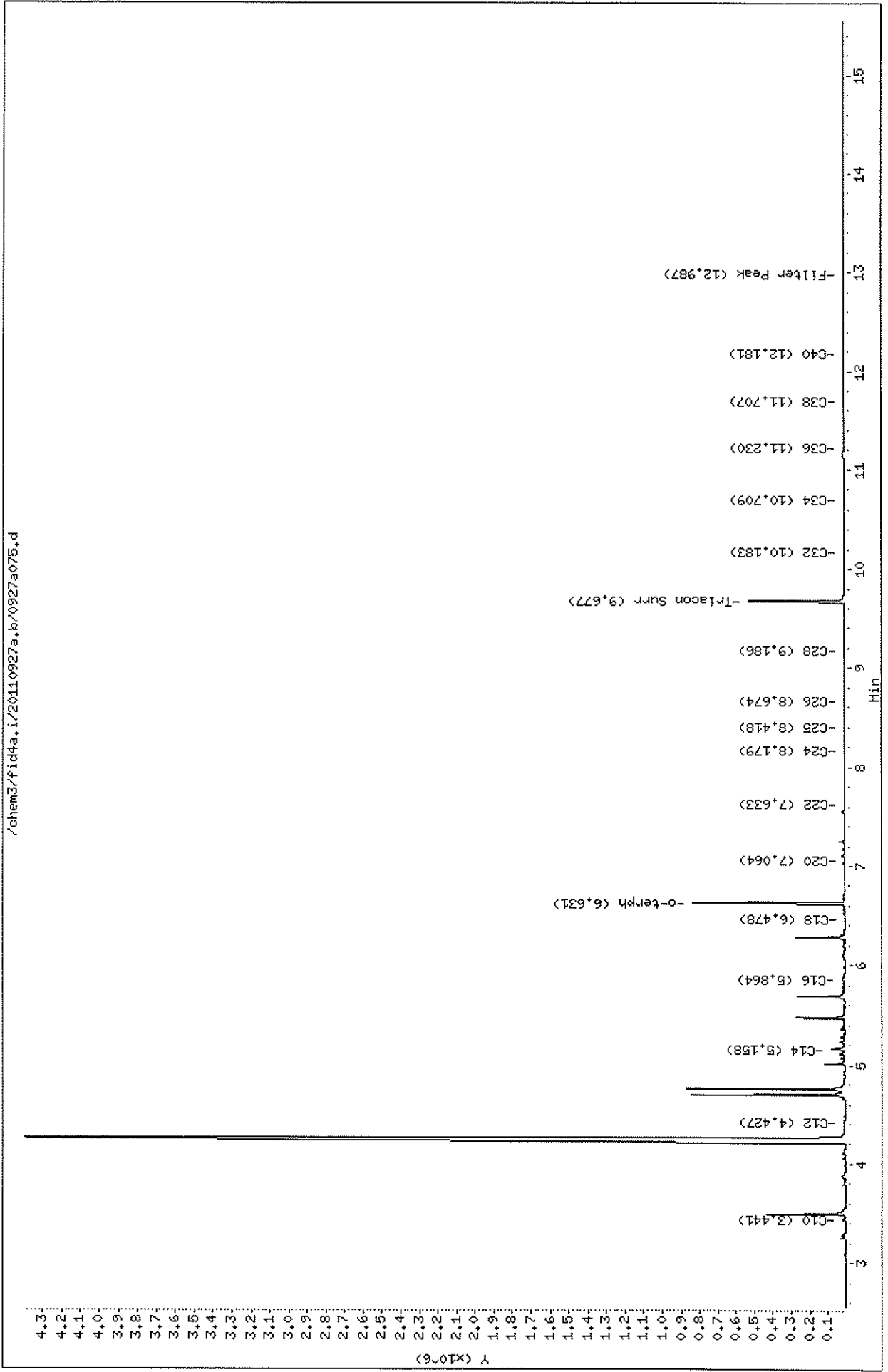
Sample Info: TNH6F

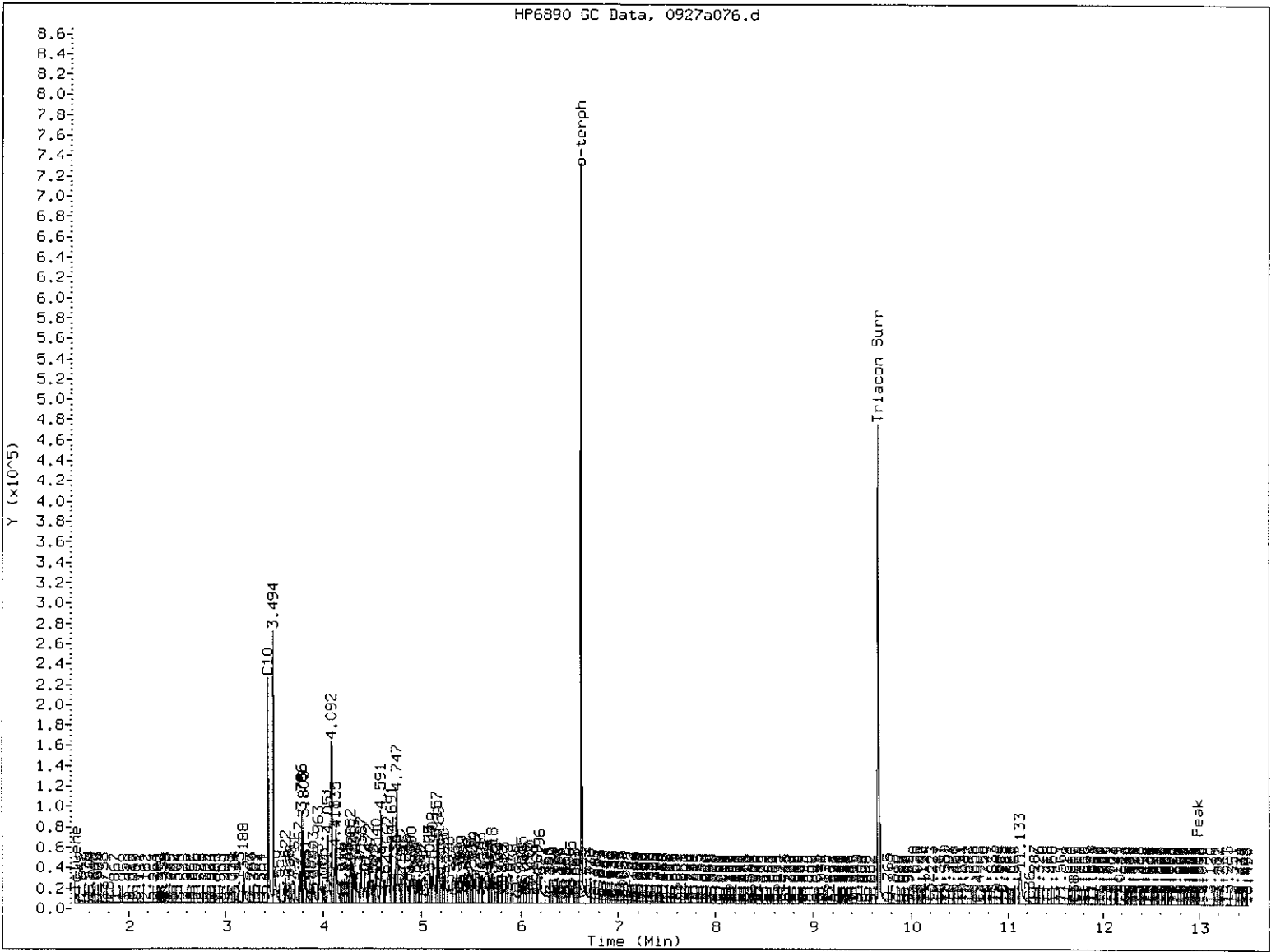
Instrument: fid4a.i

Operator: MS

Column diameter: 0.25

Column phase: RTX-1





MANUAL INTEGRATION

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other Surr pk. overlap

Analyst: AR

Date: 9/29/2011

Data File: /chem3/fid4a.i/20110927a.b/0927a076.d

Date : 28-SEP-2011 16:47

Client ID: MM-6

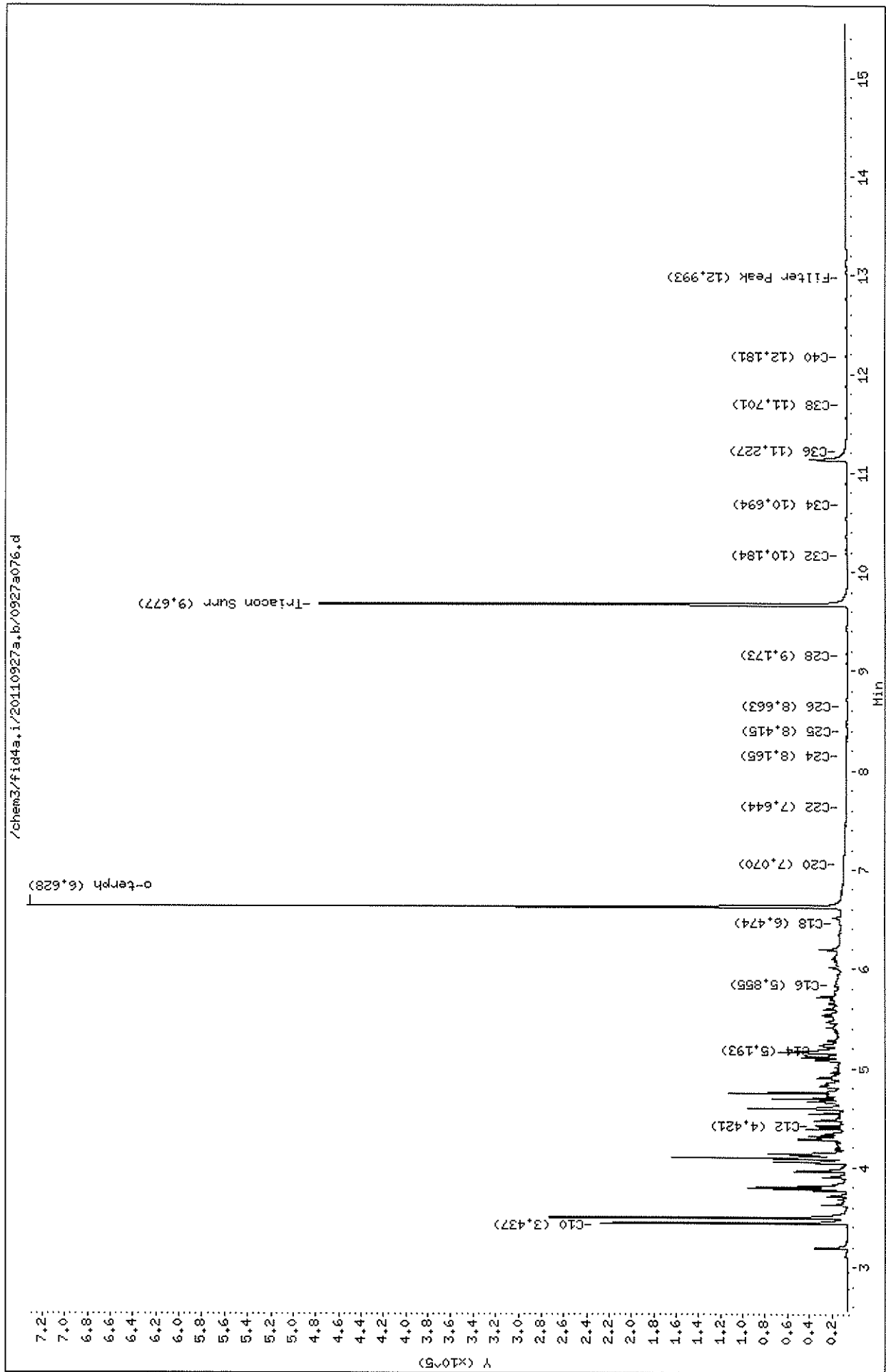
Sample Info: TN16G

Instrument: fid4a.i

Operator: MS

Column diameter: 0.25

Column phase: RTX-1



256900 : (0.000000)

Data File: /chem3/fid4a.i/20110927a.b/0927a079.d

Date: 28-SEP-2011 17:57

Client ID: HN-7

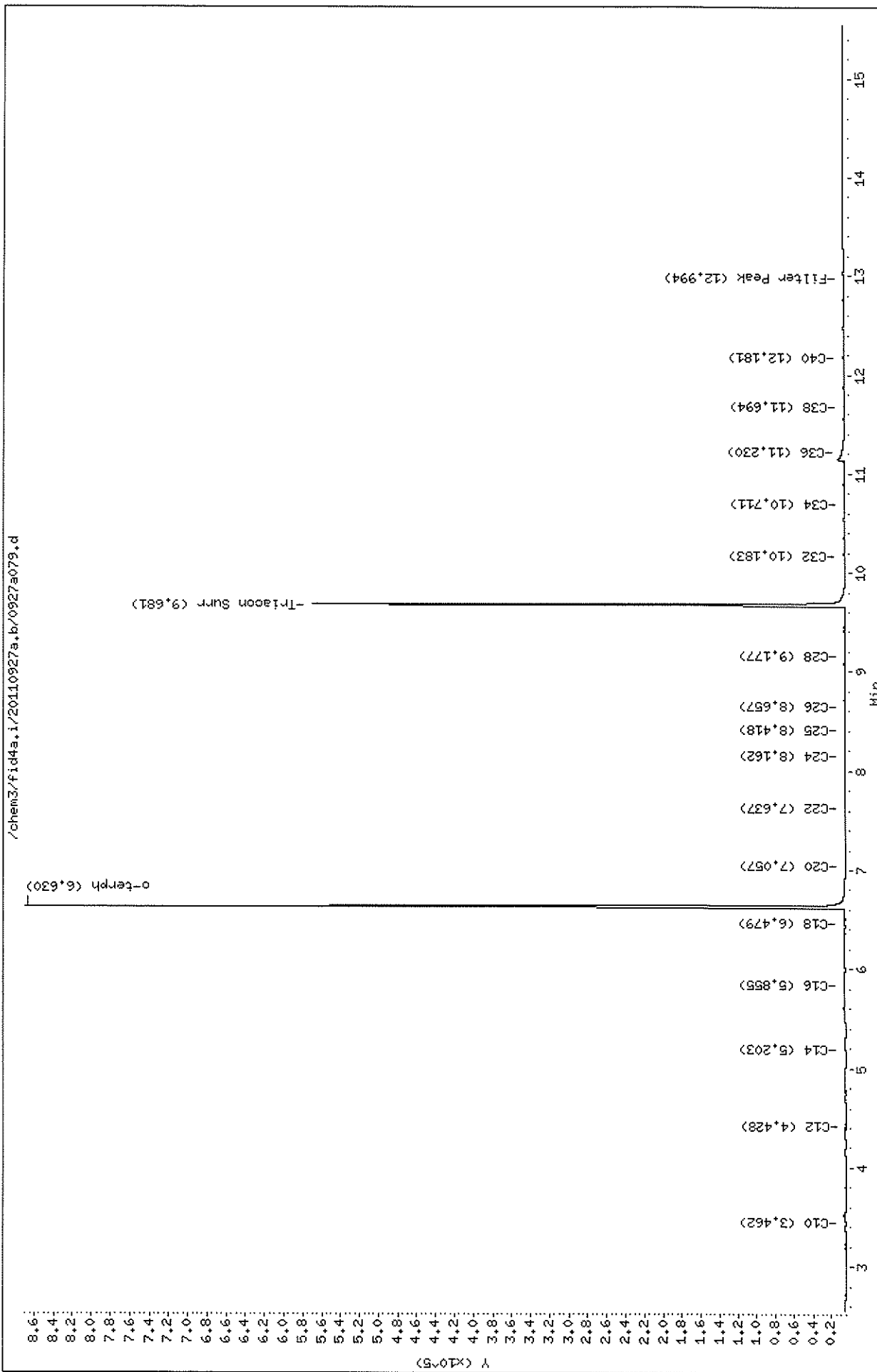
Sample Info: TN16H

Instrument: fid4a.i

Operator: MS

Column diameter: 0.25

Column phase: RTX-1



Data File: /chem3/fid4a.i/20110927a.b/0927a080.d

Date : 28-SEP-2011 18:20

Client ID: RB-01

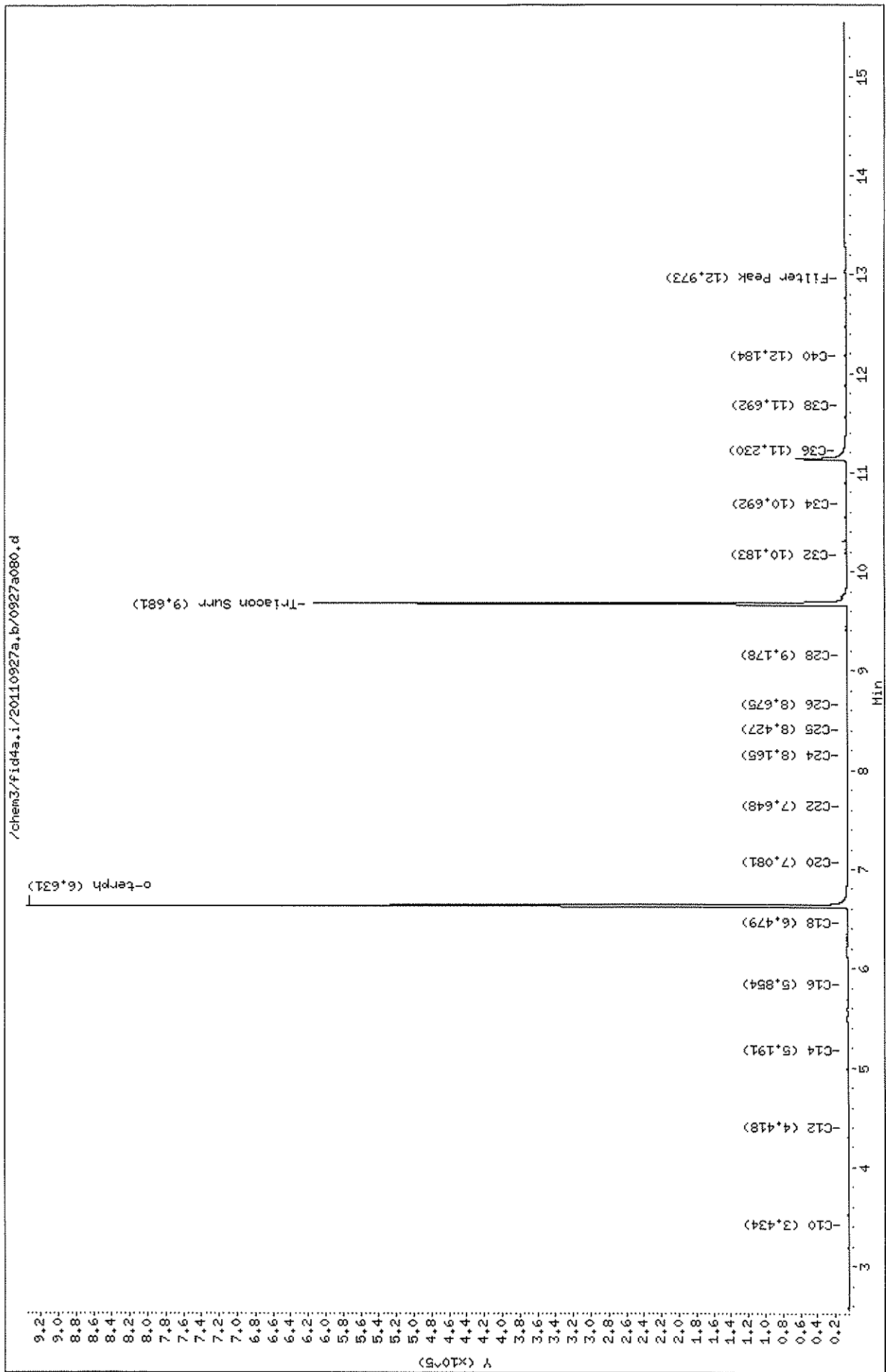
Sample Info: TN161

Instrument: fid4a.i

Operator: MS

Column diameter: 0.25

Column phase: RTX-1



710927a : 10 21 2011

CLEANED TPHD SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: TN16-Kennedy Jenks Consultants
Project: Ecology Cornet Bay

<u>Client ID</u>	<u>OTER</u>	<u>TOT OUT</u>
MB-092211	86.5%	0
LCS-092211	90.1%	0
LCSD-092211	86.2%	0
MW-1	79.1%	0
MW-3	79.9%	0
MW-2	83.8%	0
MW-100	82.0%	0
MW-5	74.8%	0
MW-4	73.1%	0
MW-6	62.4%	0
MW-7	84.8%	0
RB-01	91.0%	0

LCS/MB LIMITS QC LIMITS

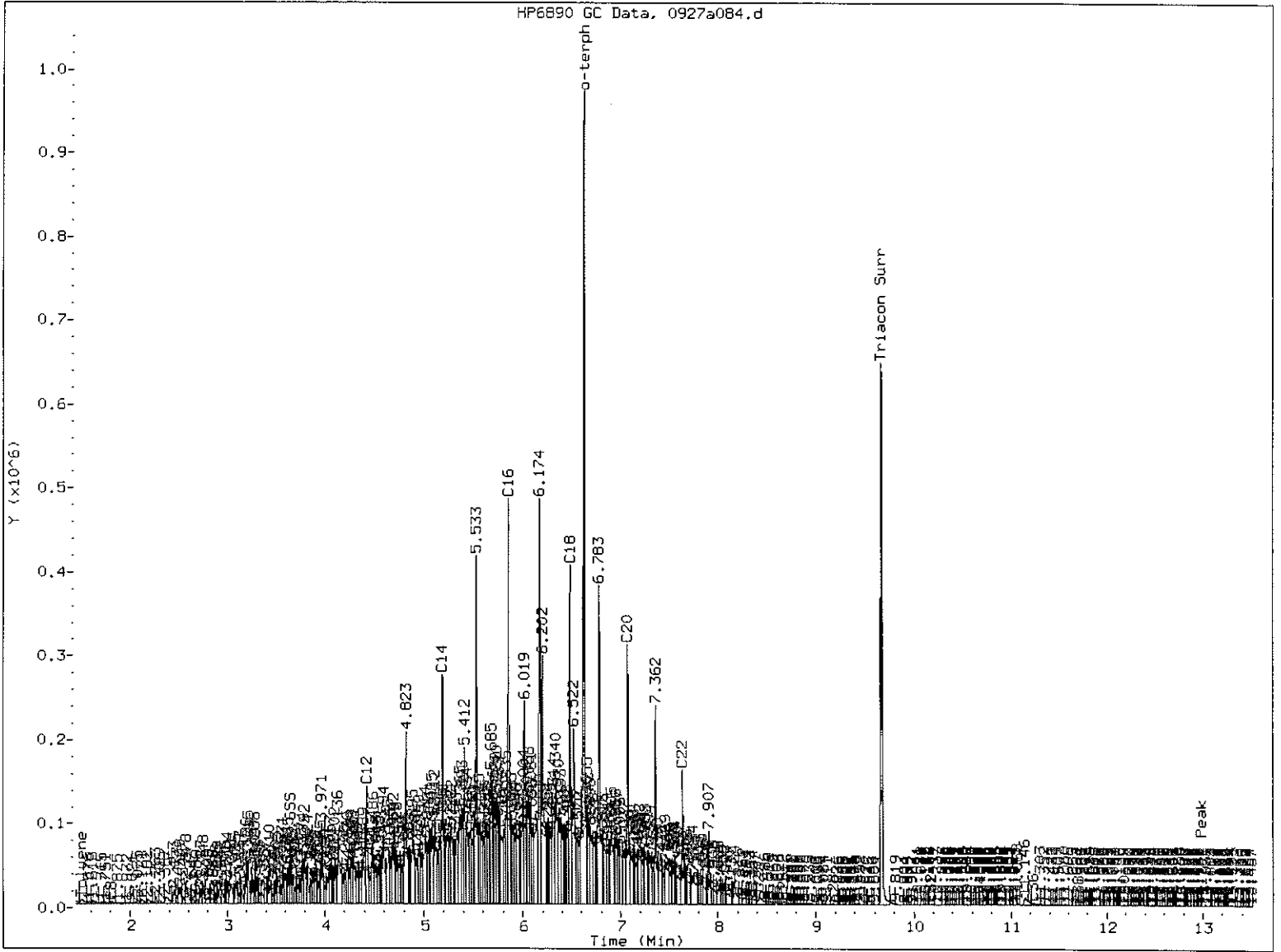
(OTER) = o-Terphenyl

(50-150)

(50-150)

Prep Method: SW3510C
Log Number Range: 11-20522 to 11-20530

HP6890 GC Data, 0927a084.d



MANUAL INTEGRATION

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

5. Other Surr pk overlap

Analyst: AR

Date: 9/29/2011

Data File: /chem3/fid4a.i/20110927a.b/0927a084.d

Date : 28-SEP-2011 19:53

Client ID: TN16LCSM1

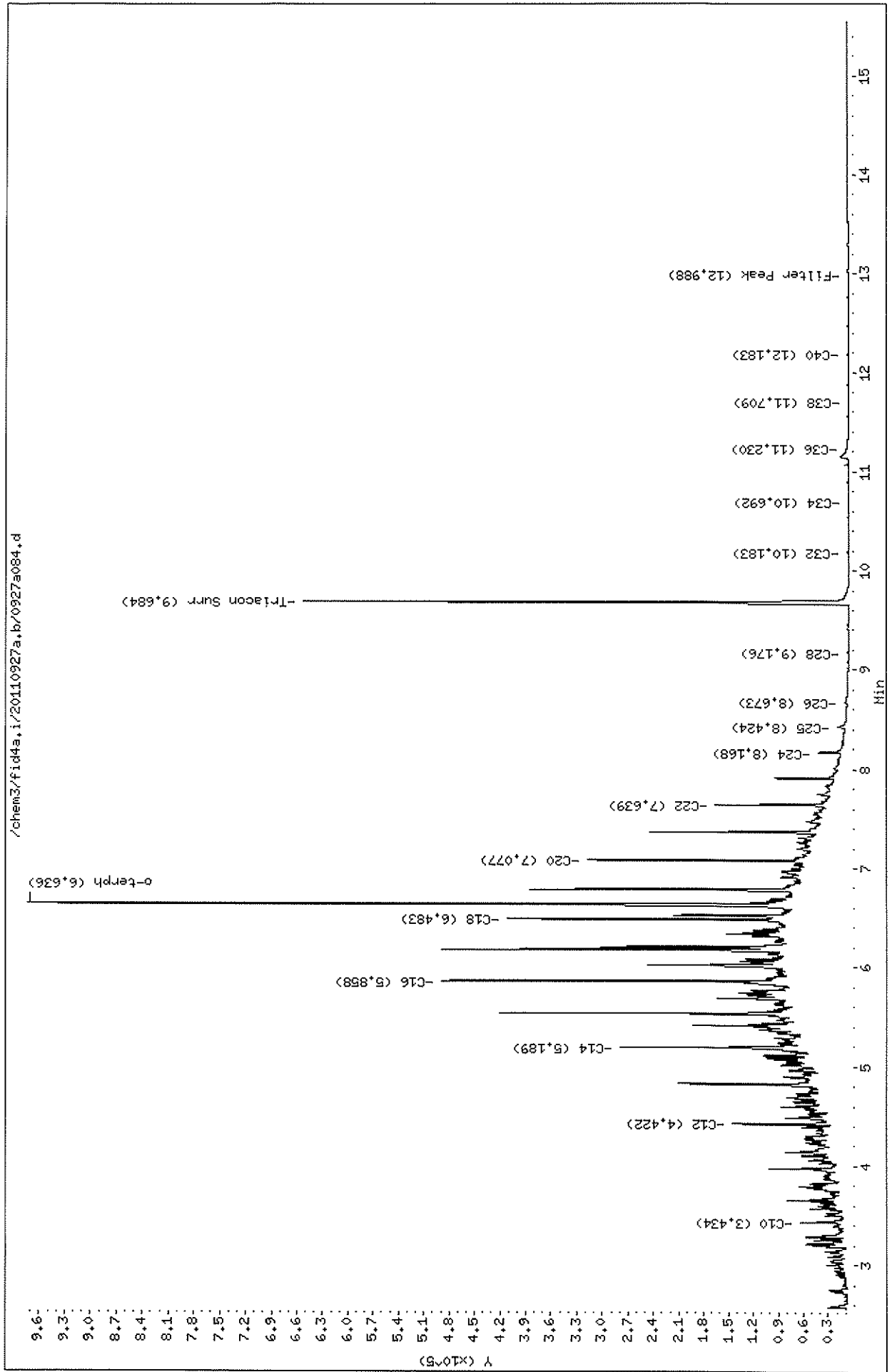
Sample Info: TN16LCSM1

Instrument: fid4a.i

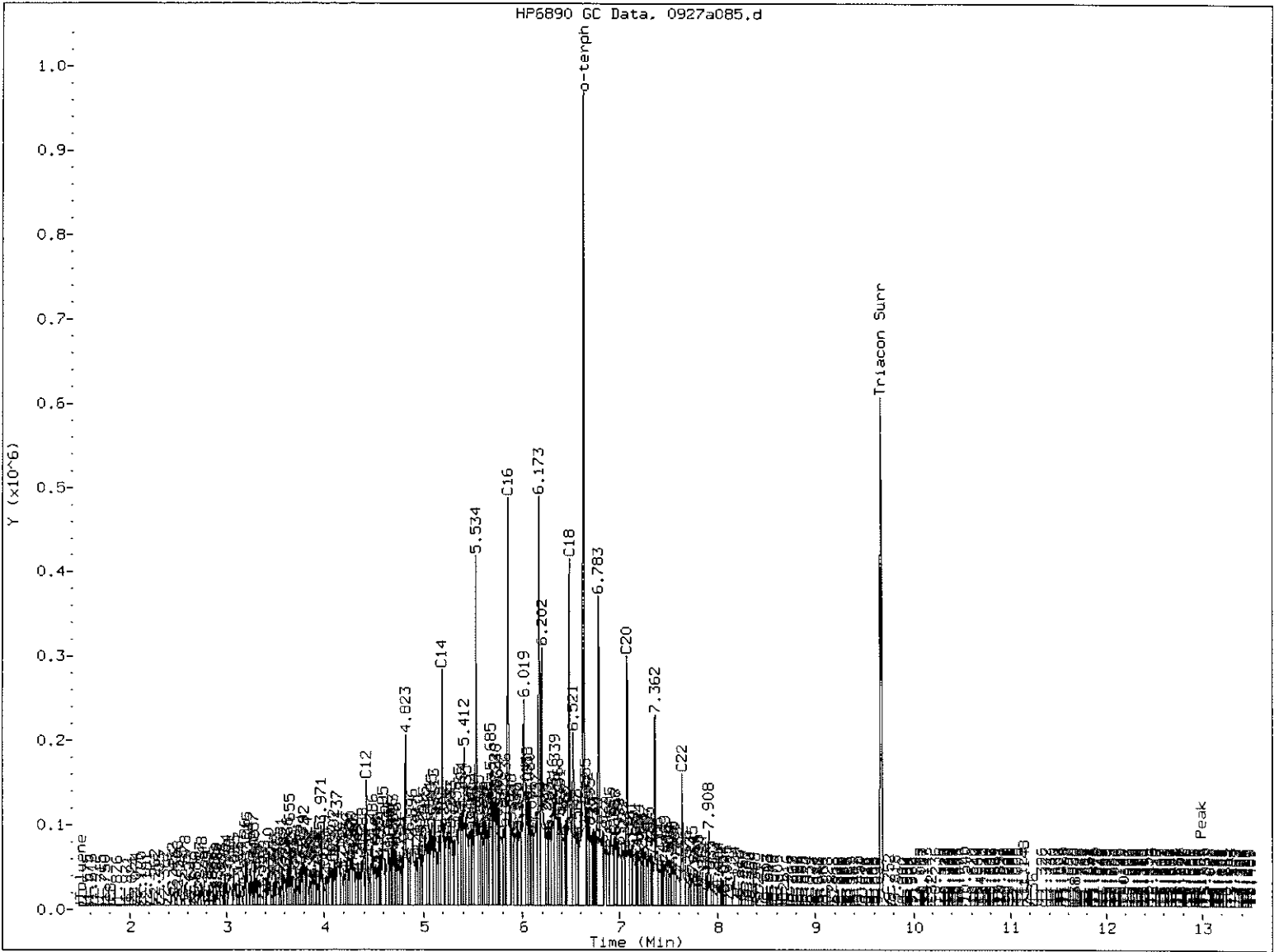
Operator: HS

Column diameter: 0.25

Column phase: RTX-1



09 19 2011 19:53



MANUAL INTEGRATION

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

5. Other Surr pk overlap

Analyst: AR

Date: 9/29/2011

Data File: /chem3/fid4a.i/20110927a.b/0927a085.d

Date : 28-SEP-2011 20:17

Client ID: TN16LCS041

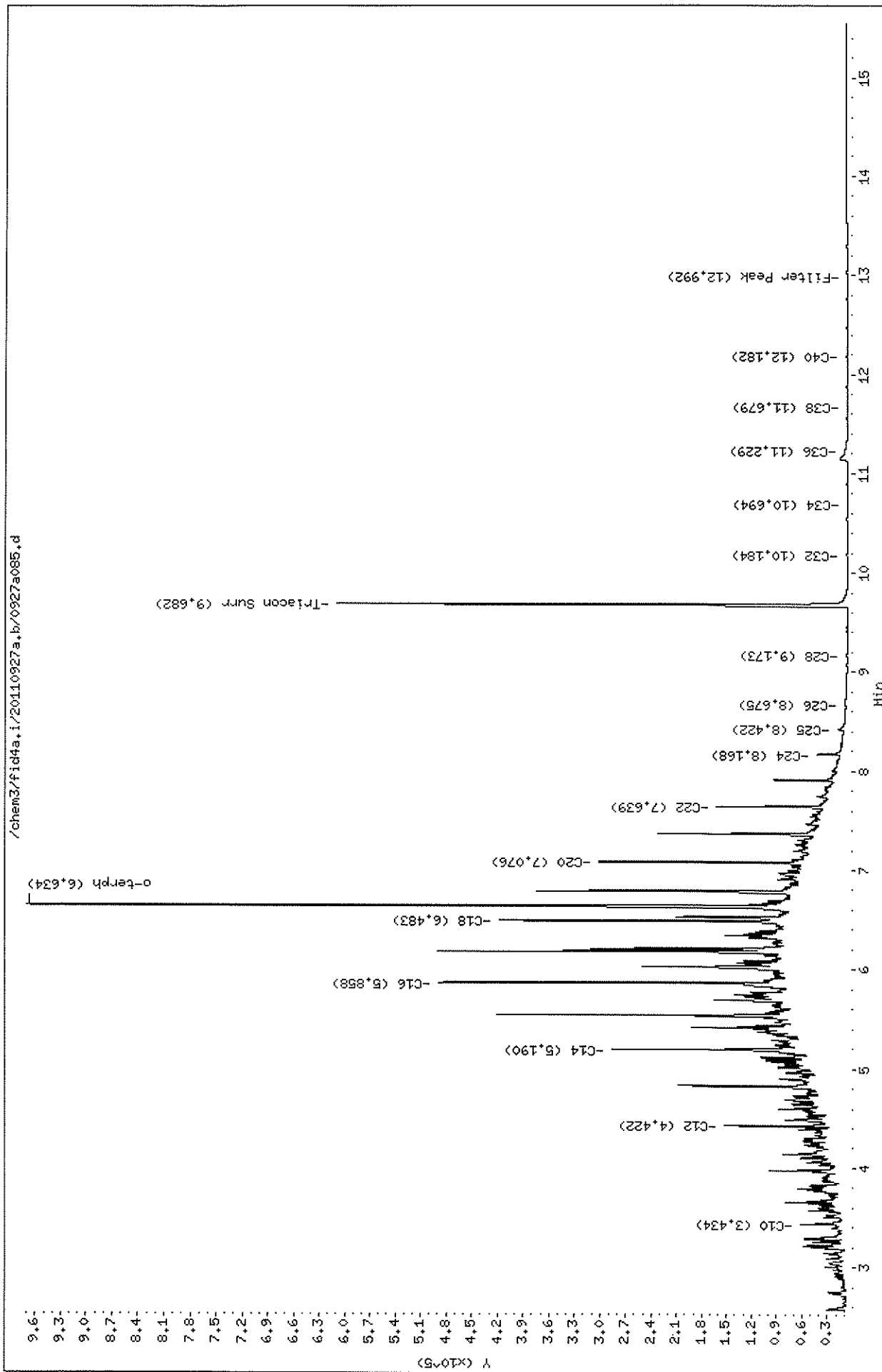
Sample Info: TN16LCS041

Column phase: RTX-1

Instrument: fid4a.i

Operator: HS

Column diameter: 0.25



ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021EMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: MB-093011

METHOD BLANK

Lab Sample ID: MB-093011

LIMS ID: 11-20522

Matrix: Water

Data Release Authorized: *MW*

Reported: 10/06/11

QC Report No: TN16-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Event: NA

Date Sampled: NA

Date Received: NA

Date Analyzed: 09/30/11 07:18

Instrument/Analyst: PID2/MH

Purge Volume: 5.0 mL

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
71-43-2	Benzene	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
179601-23-1	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Gasoline Range Hydrocarbons	0.25	< 0.25 U	GAS ID ---
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BETX Surrogate Recovery

Trifluorotoluene	92.4%
Bromobenzene	91.8%

Gasoline Surrogate Recovery

Trifluorotoluene	92.8%
Bromobenzene	90.7%

BETX values reported in µg/L (ppb)
Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

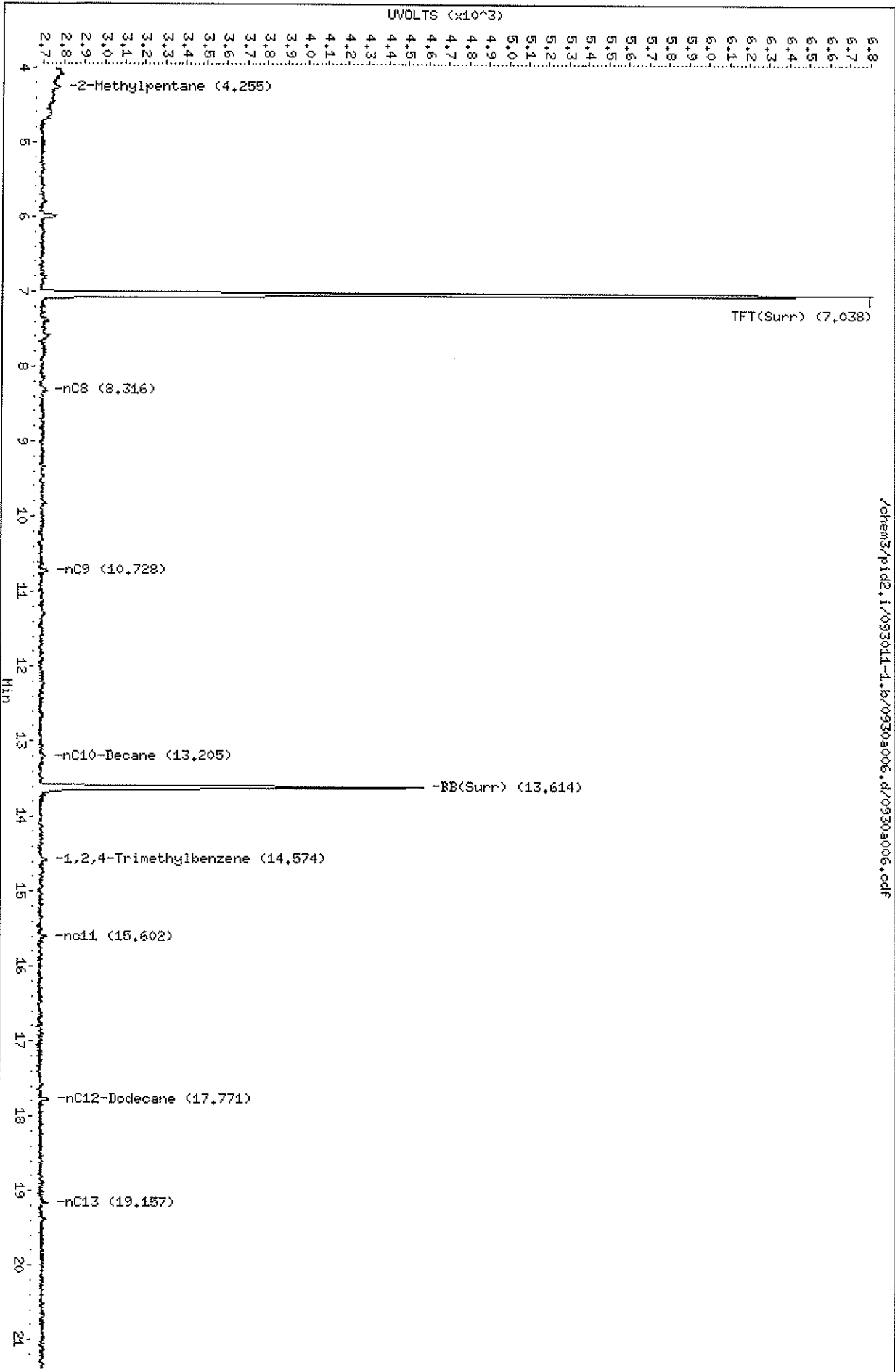
Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Data File: /chem3/pid2.i/093011-1.b/0930a006.d
Date: 30-SEP-2011 07:18
Client ID:
Sample Info: HB0930

Column phase: RTX 502-2 FID

/chem3/pid2.i/093011-1.b/0930a006.d/0930a006.cdf

Instrument: pid2.i
Operator: NH
Column diameter: 0.18



093011-1

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1



Sample ID: MB-100311

METHOD BLANK

Lab Sample ID: MB-100311

LIMS ID: 11-20523

Matrix: Water

Data Release Authorized: *WVW*

Reported: 10/06/11

QC Report No: TN16-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Event: NA

Date Sampled: NA

Date Received: NA

Date Analyzed: 10/03/11 08:28

Instrument/Analyst: PID2/MH

Purge Volume: 5.0 mL

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
71-43-2	Benzene	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
179601-23-1	m, p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Gasoline Range Hydrocarbons	0.25	< 0.25 U	GAS ID ---
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BETX Surrogate Recovery

Trifluorotoluene	87.9%
Bromobenzene	87.1%

Gasoline Surrogate Recovery

Trifluorotoluene	89.9%
Bromobenzene	87.8%

BETX values reported in µg/L (ppb)
Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

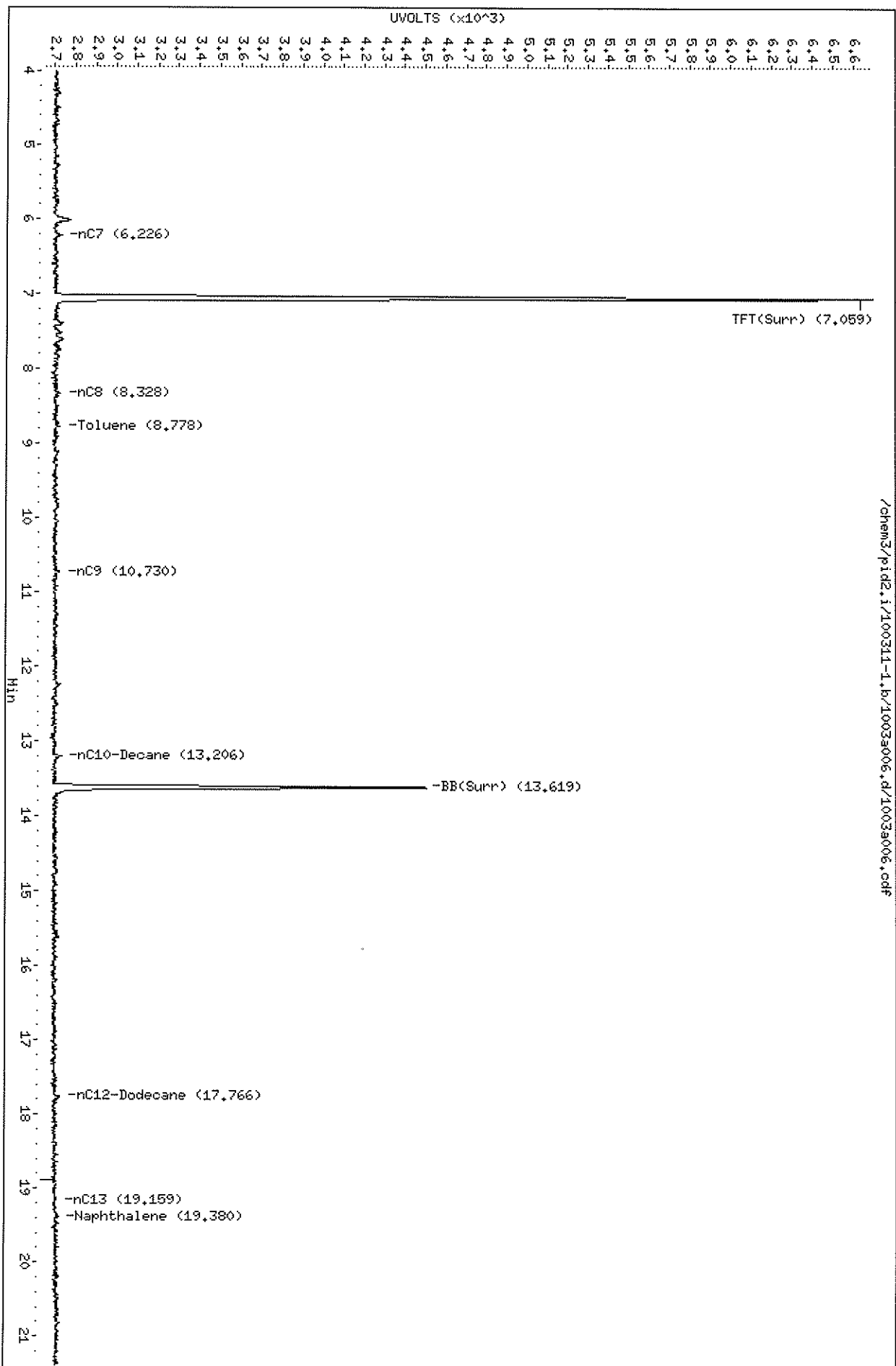
Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Data File: /chem3/pid2.1/100311-1.b/1003a006.d
Date: 03-OCT-2011 08:28
Client ID:
Sample Info: HBI003

Column phase: RTX 502-2 FID

/chem3/pid2.1/100311-1.b/1003a006.d/1003a006.cdf

Instrument: pid2.i
Operator: HH
Column diameter: 0.18



100311-1

Data File: /chem3/pid2.i/100311-2.b/1003a006.d

Date : 03-OCT-2011 08:28

Client ID:

Sample Info: HB1003

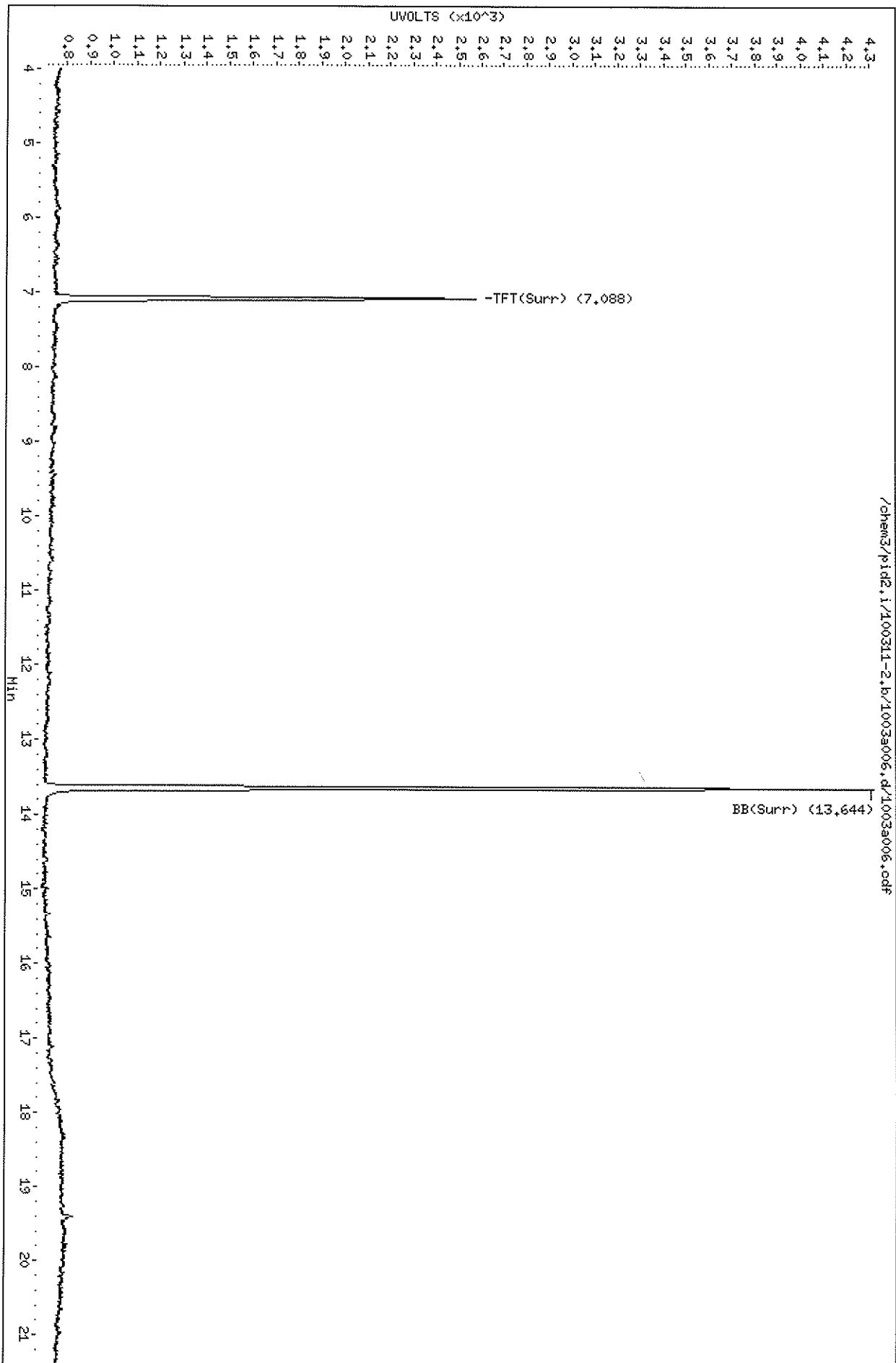
Instrument: pid2.i

Operator: HH

Column diameter: 0.18

Column phase: RTX 502-2 PID

/chem3/pid2.i/100311-2.b/1003a006.d/1003a006.pdf



ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021EMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: MB-100511

METHOD BLANK

Lab Sample ID: MB-100511

LIMS ID: 11-20524

Matrix: Water

Data Release Authorized: *WJW*

Reported: 10/06/11

QC Report No: TN16-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Event: NA

Date Sampled: NA

Date Received: NA

Date Analyzed: 10/05/11 17:49

Instrument/Analyst: PID2/MH

Purge Volume: 5.0 mL

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
71-43-2	Benzene	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
179601-23-1	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Gasoline Range HydrocarbonNot RequestNot Requested GAS ID ---

BETX Surrogate Recovery

Trifluorotoluene	99.0%
Bromobenzene	99.2%

Gasoline Surrogate Recovery

Trifluorotoluene	96.9%
Bromobenzene	97.5%

BETX values reported in µg/L (ppb)
Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Data File: /chem3/pid2.1/100511-2.b/1005a027.d

Date: 05-OCT-2011 17:49

Client ID:

Sample Info: MB1005

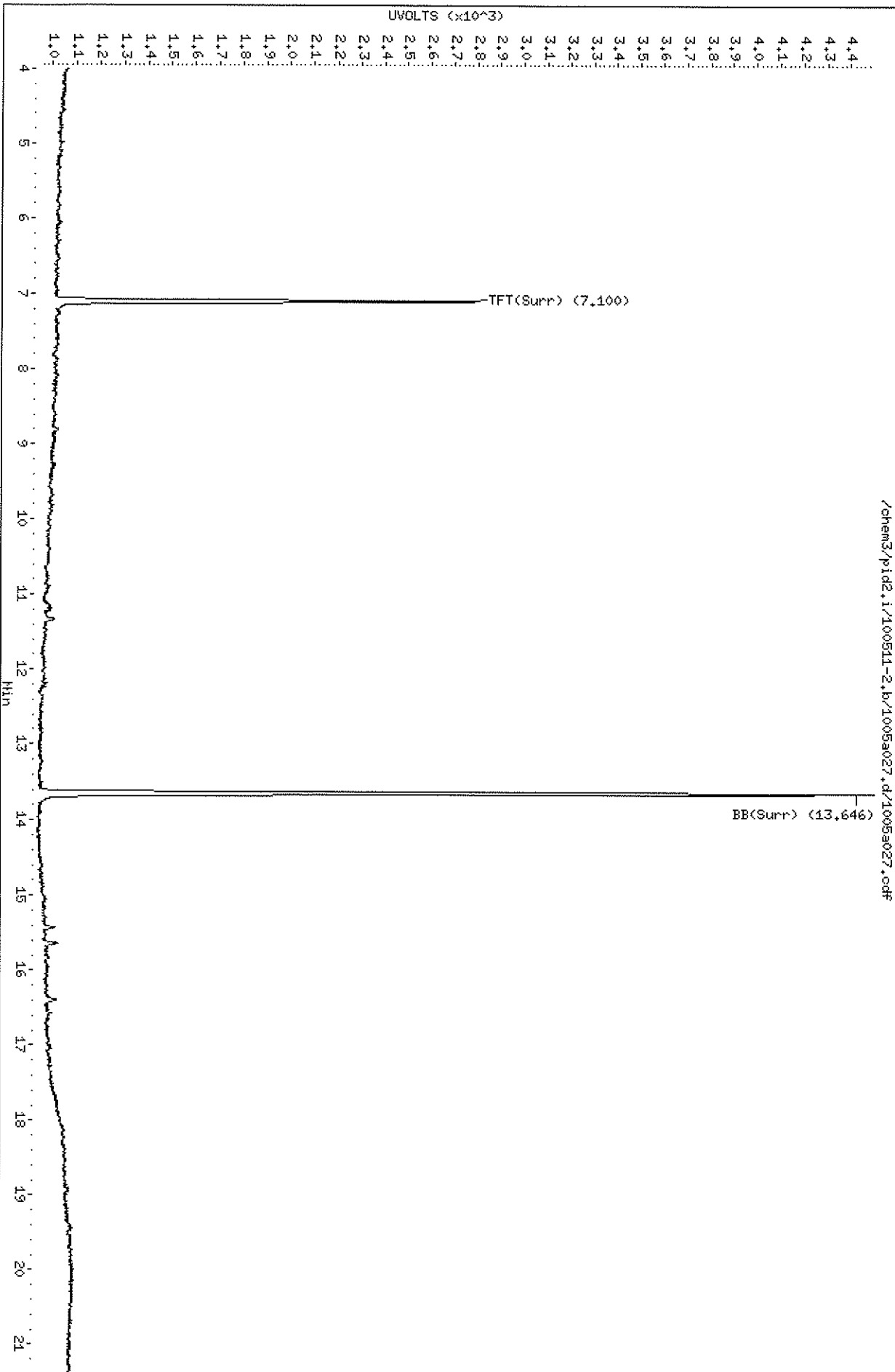
Instrument: pid2.1

Operator: NH

Column diameter: 0.18

Column phase: RTX 502-2 PID

/chem3/pid2.1/100511-2.b/1005a027.d/1005a027.cdf



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ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: MW-1
SAMPLE

Lab Sample ID: TN16A

LIMS ID: 11-20522

Matrix: Water

Data Release Authorized: *MW*

Reported: 10/06/11

QC Report No: TN16-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Event: NA

Date Sampled: 09/19/11

Date Received: 09/20/11

Date Analyzed: 09/30/11 13:44

Instrument/Analyst: PID2/MH

Purge Volume: 5.0 mL

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
71-43-2	Benzene	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
179601-23-1	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Gasoline Range Hydrocarbons	0.25	< 0.25 U	GAS ID ---
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BETX Surrogate Recovery

Trifluorotoluene	94.2%
Bromobenzene	92.3%

Gasoline Surrogate Recovery

Trifluorotoluene	93.5%
Bromobenzene	90.8%

BETX values reported in µg/L (ppb)
Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET
 BETX by Method SW8021BMod
 TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: MW-3
 SAMPLE



Lab Sample ID: TN16B
 LIMS ID: 11-20523
 Matrix: Water
 Data Release Authorized: *MW*
 Reported: 10/06/11

QC Report No: TN16-Kennedy Jenks Consultants
 Project: Ecology Cornet Bay
 Event: NA
 Date Sampled: 09/19/11
 Date Received: 09/20/11

Date Analyzed: 09/30/11 14:12
 Instrument/Analyst: PID2/MH

Purge Volume: 5.0 mL
 Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
71-43-2	Benzene	1.0	8.0
108-88-3	Toluene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	1.3
179601-23-1	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Gasoline Range Hydrocarbons 0.25 < 0.25 U GAS ID ---

BETX Surrogate Recovery

Trifluorotoluene	94.5%
Bromobenzene	93.2%

Gasoline Surrogate Recovery

Trifluorotoluene	93.8%
Bromobenzene	91.7%

BETX values reported in µg/L (ppb)
 Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.
 Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Data File: /chem3/pid2.i/093011-1.b/09303020.d

Date: 30-SEP-2011 14:12

Client ID: MM-3

Sample Info: TN16B

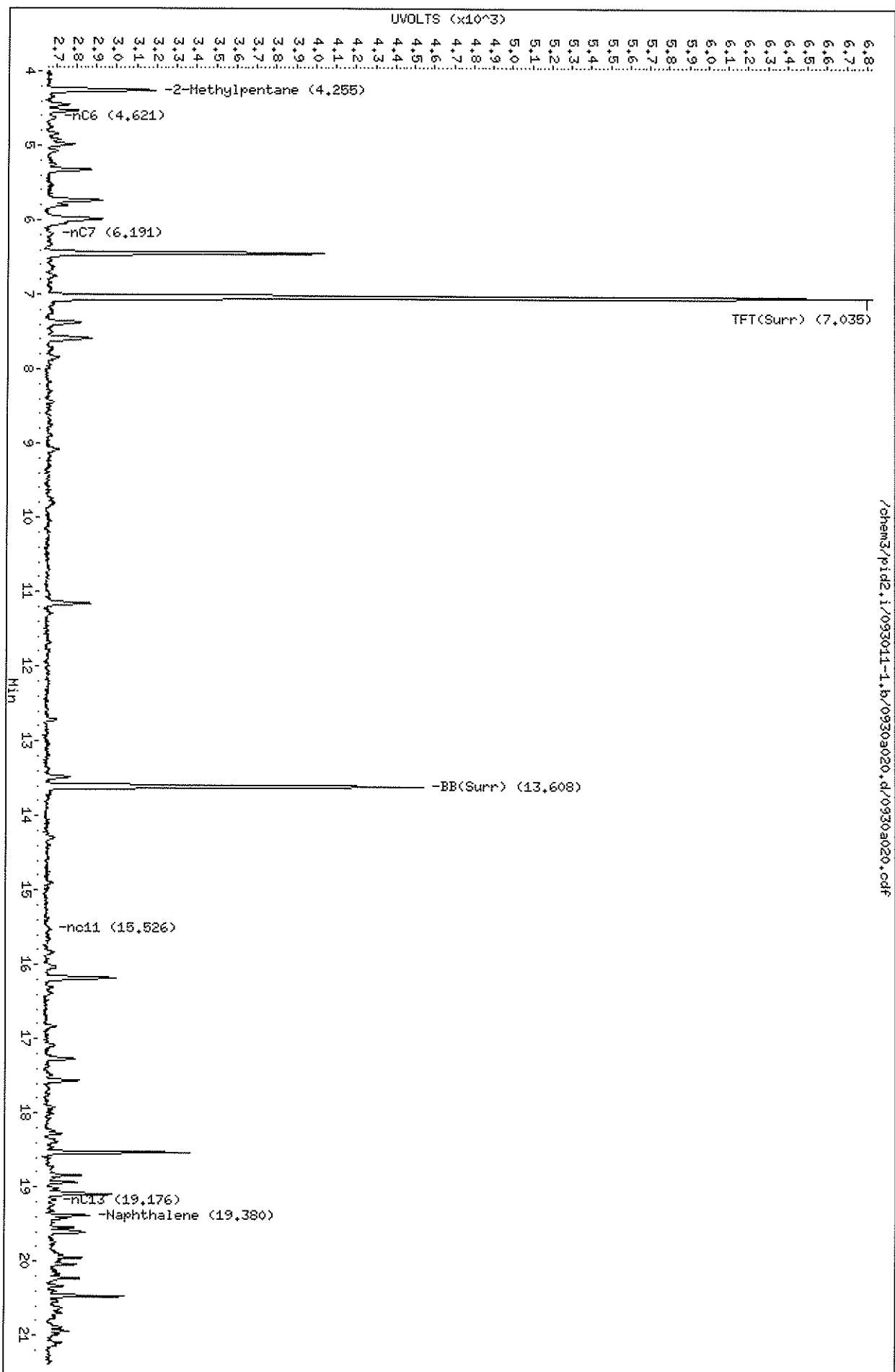
Instrument: pid2.i

Operator: HH

Column diameter: 0.18

Column Phase: RTX 502-2 FID

/chem3/pid2.i/093011-1.b/09303020.d/09303020.cdf



TN16 00012

Data File: /chem3/pid2.i/093011-2.b/09303020.d

Date: 30-SEP-2011 14:12

Client ID: HM-3

Sample Info: TML6B

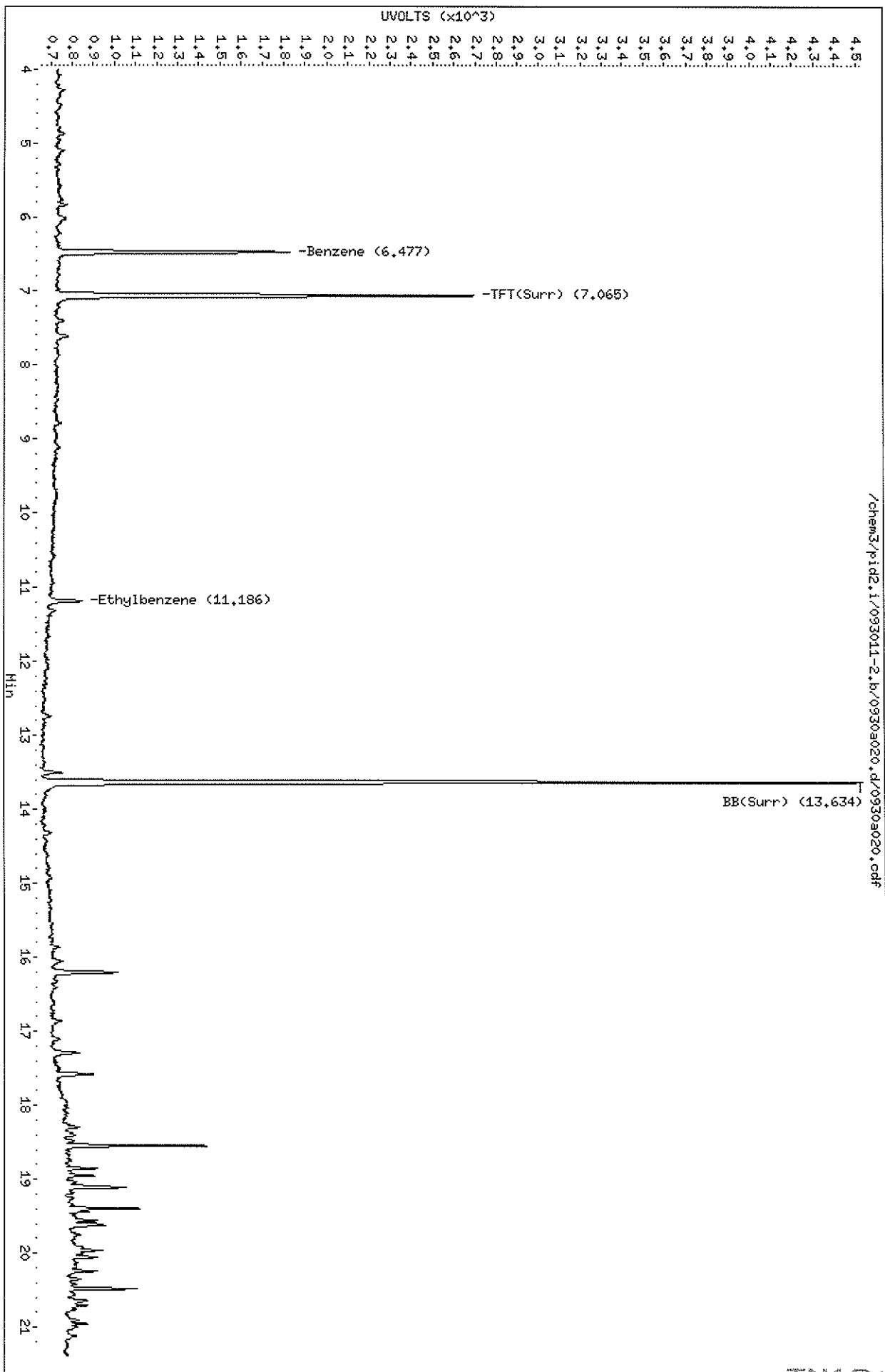
Instrument: pid2.i

Operator: HH

Column diameter: 0.18

Column phase: RTX 502-2 PID

/chem3/pid2.i/093011-2.b/09303020.d/09303020.cdf



ORGANICS ANALYSIS DATA SHEET
 BETX by Method SW8021BMod
 TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: MW-2
 SAMPLE



Lab Sample ID: TN16C
 LIMS ID: 11-20524
 Matrix: Water
 Data Release Authorized: *mm*
 Reported: 10/06/11

QC Report No: TN16-Kennedy Jenks Consultants
 Project: Ecology Cornet Bay
 Event: NA
 Date Sampled: 09/19/11
 Date Received: 09/20/11

Date Analyzed: 09/30/11 14:41
 Instrument/Analyst: PID2/MH

Purge Volume: 5.0 mL
 Dilution Factor: 10.0

CAS Number	Analyte	RL	Result	
71-43-2	Benzene	10	4,200 E	
108-88-3	Toluene	10	14	
100-41-4	Ethylbenzene	10	63	
179601-23-1	m,p-Xylene	10	31	
95-47-6	o-Xylene	10	< 10 U	
Gasoline Range Hydrocarbons		2.5	3.0	GAS ID GRO

BETX Surrogate Recovery

Trifluorotoluene	93.4%
Bromobenzene	93.7%

Gasoline Surrogate Recovery

Trifluorotoluene	92.4%
Bromobenzene	92.3%

BETX values reported in µg/L (ppb)
 Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.

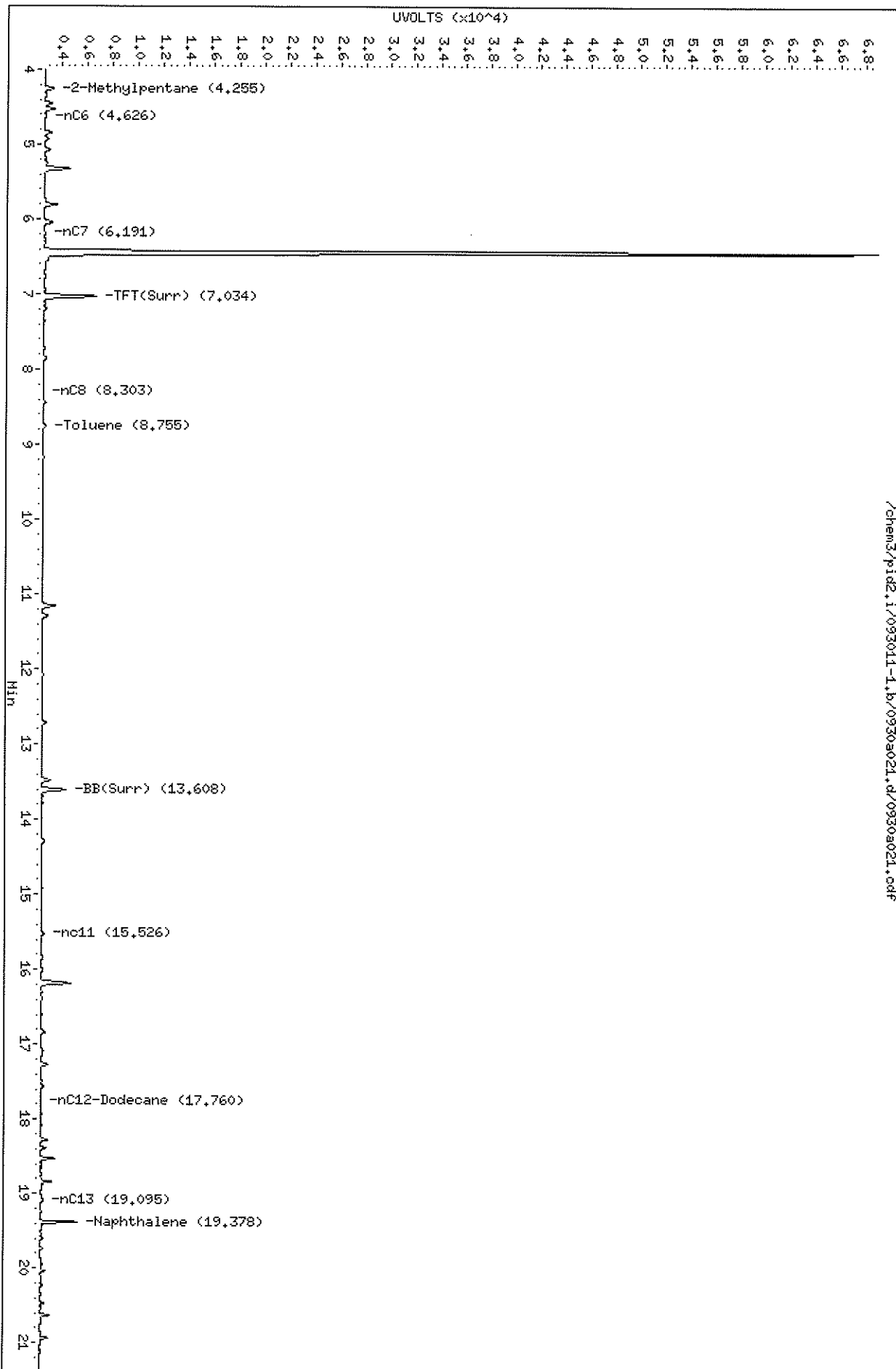
Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Data File: /chem3/pid2.i/093011-1.b/0930a021.d
Date: 30-SEP-2011 14:41
Client ID: NH-2
Sample Info: TML6C,10

Column phase: RTX 502-2 FID

/chem3/pid2.i/093011-1.b/0930a021.d/0930a021.cdf

Instrument: pid2.i
Operator: NH
Column diameter: 0.18



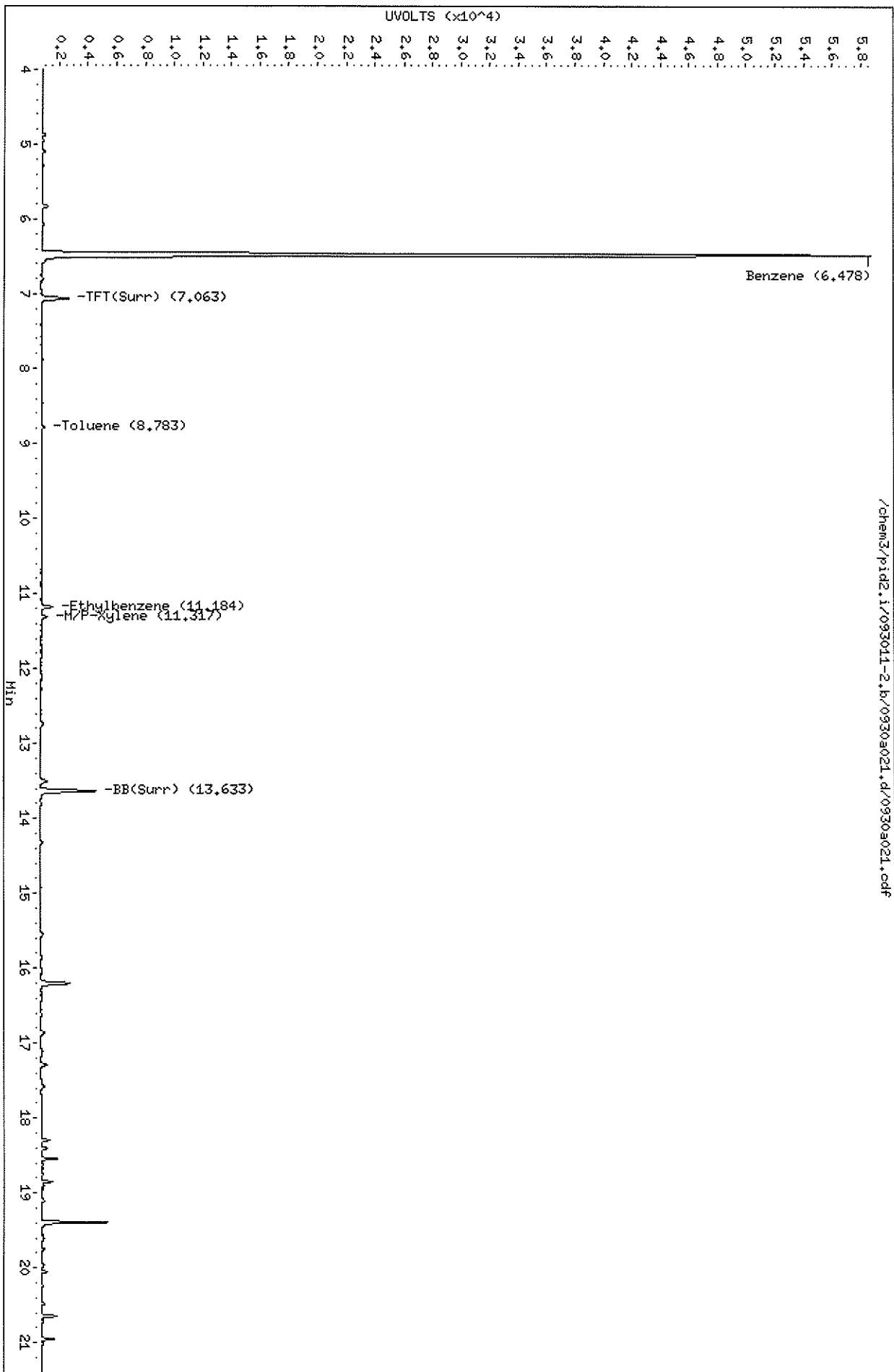
12
10
09
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03
02
01

Data File: /chem3/pid2.i/093011-2.b/0930a021.d
Date: 30-SEP-2011 14:41
Client ID: MH-2
Sample Info: TML5C.10

Column phase: RTX 502-2 PID

/chem3/pid2.i/093011-2.b/0930a021.d/0930a021.cdf

Instrument: pid2.i
Operator: MH
Column diameter: 0.18



ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: MW-2

DILUTION



Lab Sample ID: TN16C

LIMS ID: 11-20524

Matrix: Water

Data Release Authorized: *[Signature]*

Reported: 10/06/11

QC Report No: TN16-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Event: NA

Date Sampled: 09/19/11

Date Received: 09/20/11

Date Analyzed: 10/03/11 11:37

Instrument/Analyst: PID2/MH

Purge Volume: 5.0 mL

Dilution Factor: 20.0

CAS Number	Analyte	RL	Result
71-43-2	Benzene	20	4,200 E
108-88-3	Toluene	20	< 20 U
100-41-4	Ethylbenzene	20	63
179601-23-1	m,p-Xylene	20	32
95-47-6	o-Xylene	20	< 20 U

Gasoline Range Hydrocarbons	5.0	< 5.0 U	GAS ID ---
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BETX Surrogate Recovery

Trifluorotoluene	89.7%
Bromobenzene	88.3%

Gasoline Surrogate Recovery

Trifluorotoluene	91.0%
Bromobenzene	88.7%

BETX values reported in µg/L (ppb)
 Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

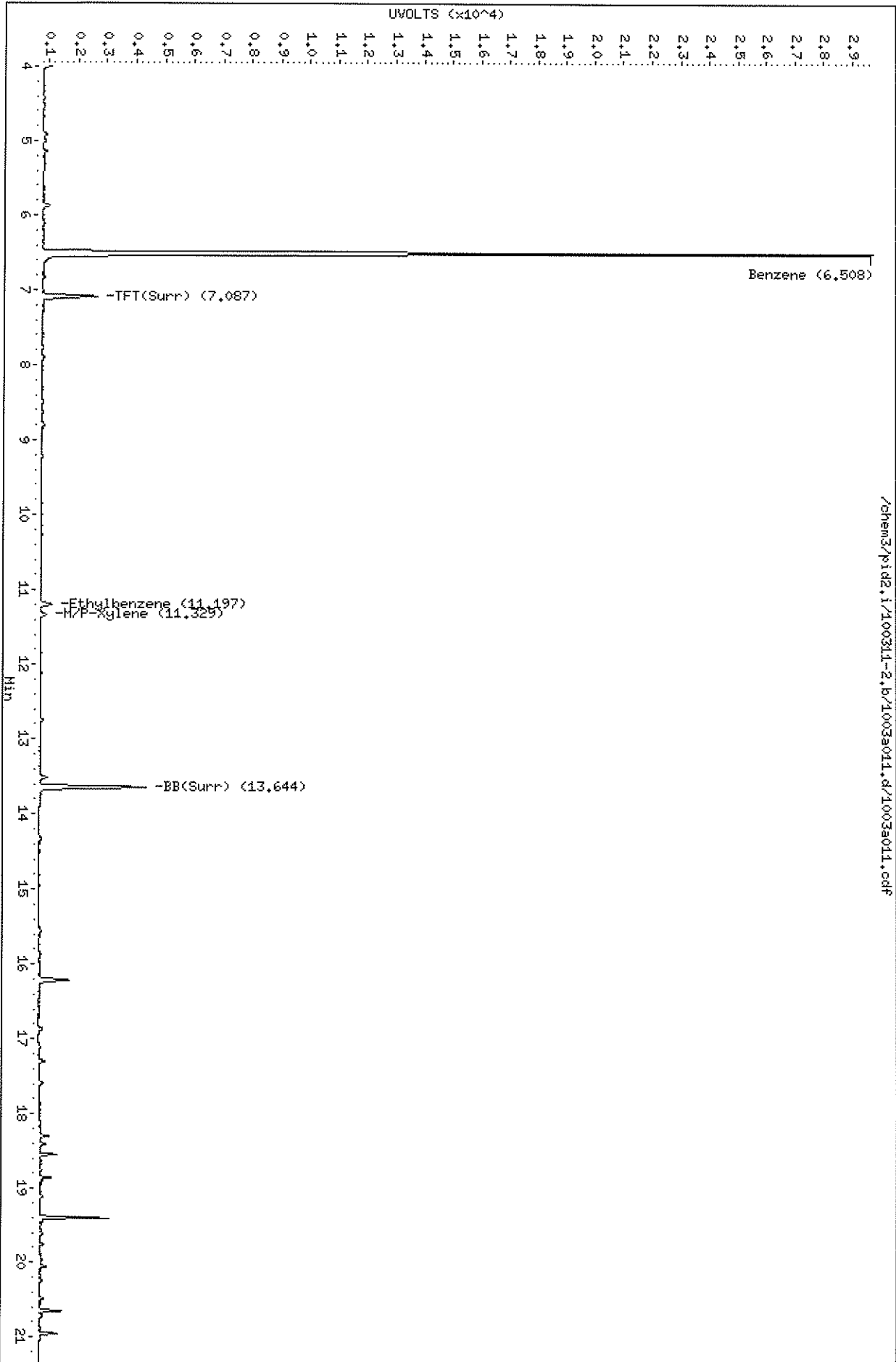
Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Data File: /chem3/pid2.i/100311-2.b/1003a011.d
Date: 03-OCT-2011 11:37
Client ID: HM-2
Sample Info: TN16C.20

Column phase: RTX 502-2 PID

/chem3/pid2.i/100311-2.b/1003a011.d/1003a011.cdf

Instrument: pid2.i
Operator: HM
Column diameter: 0.18



TN16C.20 00070

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod
TPHG by Method NWTPHG
Page 1 of 1

Sample ID: MW-2
DILUTION



Lab Sample ID: TN16C
LIMS ID: 11-20524
Matrix: Water
Data Release Authorized: *MW*
Reported: 10/06/11

QC Report No: TN16-Kennedy Jenks Consultants
Project: Ecology Cornet Bay
Event: NA
Date Sampled: 09/19/11
Date Received: 09/20/11

Date Analyzed: 10/05/11 18:17
Instrument/Analyst: PID2/MH

Purge Volume: 5.0 mL
Dilution Factor: 50.0

CAS Number	Analyte	RL	Result
71-43-2	Benzene	50	3,900
108-88-3	Toluene	50	< 50 U
100-41-4	Ethylbenzene	50	< 50 U
179601-23-1	m,p-Xylene	50	< 50 U
95-47-6	o-Xylene	50	< 50 U

Gasoline Range HydrocarbonNot RequestNot Requested GAS ID ---

BETX Surrogate Recovery

Trifluorotoluene	94.2%
Bromobenzene	95.1%

Gasoline Surrogate Recovery

Trifluorotoluene	95.5%
Bromobenzene	96.8%

BETX values reported in µg/L (ppb)
Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Data File: /chem3/pid2.i/100511-1.k/1005a028.d

Date: 05-OCT-2014 18:17

Client ID:

Sample Info: TML6C,50

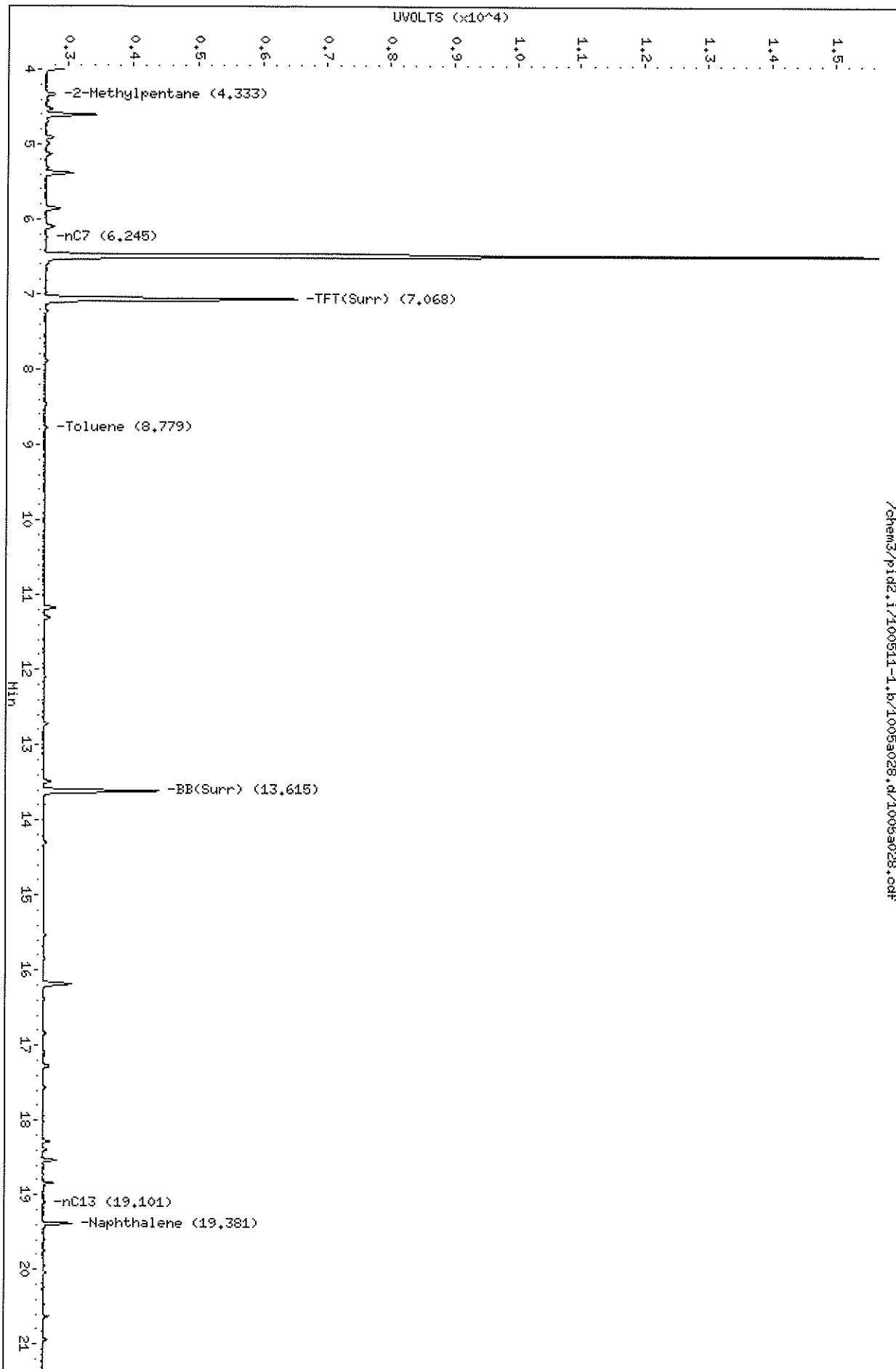
Column phase: RTX 502-2 FID

Instrument: pid2.i

Operator: HH

Column diameter: 0.18

/chem3/pid2.i/100511-1.k/1005a028.d/1005a028.cdf

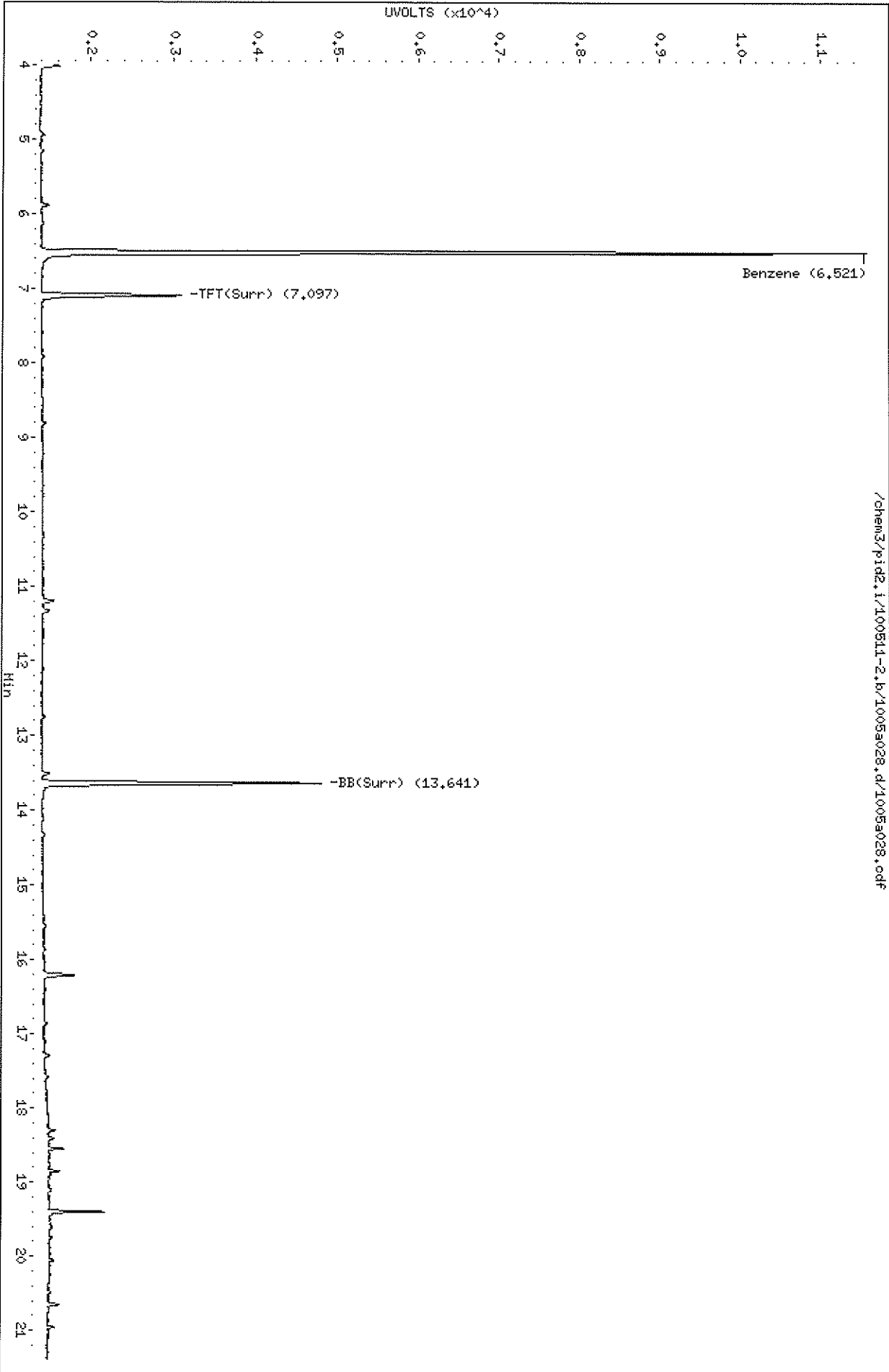


Data File: /chem3/pid2.1/100511-2.b/1005a028.d
Date : 05-OCT-2011 18:17
Client ID:
Sample Info: TML&C,50

Column phase: RTX 502-2 PID

/chem3/pid2.1/100511-2.b/1005a028.d/1005a028.pdf

Instrument: pid2.i
Operator: HH
Column diameter: 0.18



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ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021EMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: MW-100

SAMPLE

Lab Sample ID: TN16D

LIMS ID: 11-20525

Matrix: Water

Data Release Authorized: *MW*

Reported: 10/06/11

QC Report No: TN16-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Event: NA

Date Sampled: 09/19/11

Date Received: 09/20/11

Date Analyzed: 09/30/11 15:08

Instrument/Analyst: PID2/MH

Purge Volume: 5.0 mL

Dilution Factor: 10.0

CAS Number	Analyte	RL	Result
71-43-2	Benzene	10	4,000 E
108-88-3	Toluene	10	13
100-41-4	Ethylbenzene	10	59
179601-23-1	m,p-Xylene	10	30
95-47-6	o-Xylene	10	< 10 U

Gasoline Range Hydrocarbons

2.5

2.9

GAS ID
GRO

BETX Surrogate Recovery

Trifluorotoluene	95.2%
Bromobenzene	95.2%

Gasoline Surrogate Recovery

Trifluorotoluene	93.8%
Bromobenzene	93.8%

BETX values reported in µg/L (ppb)
Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

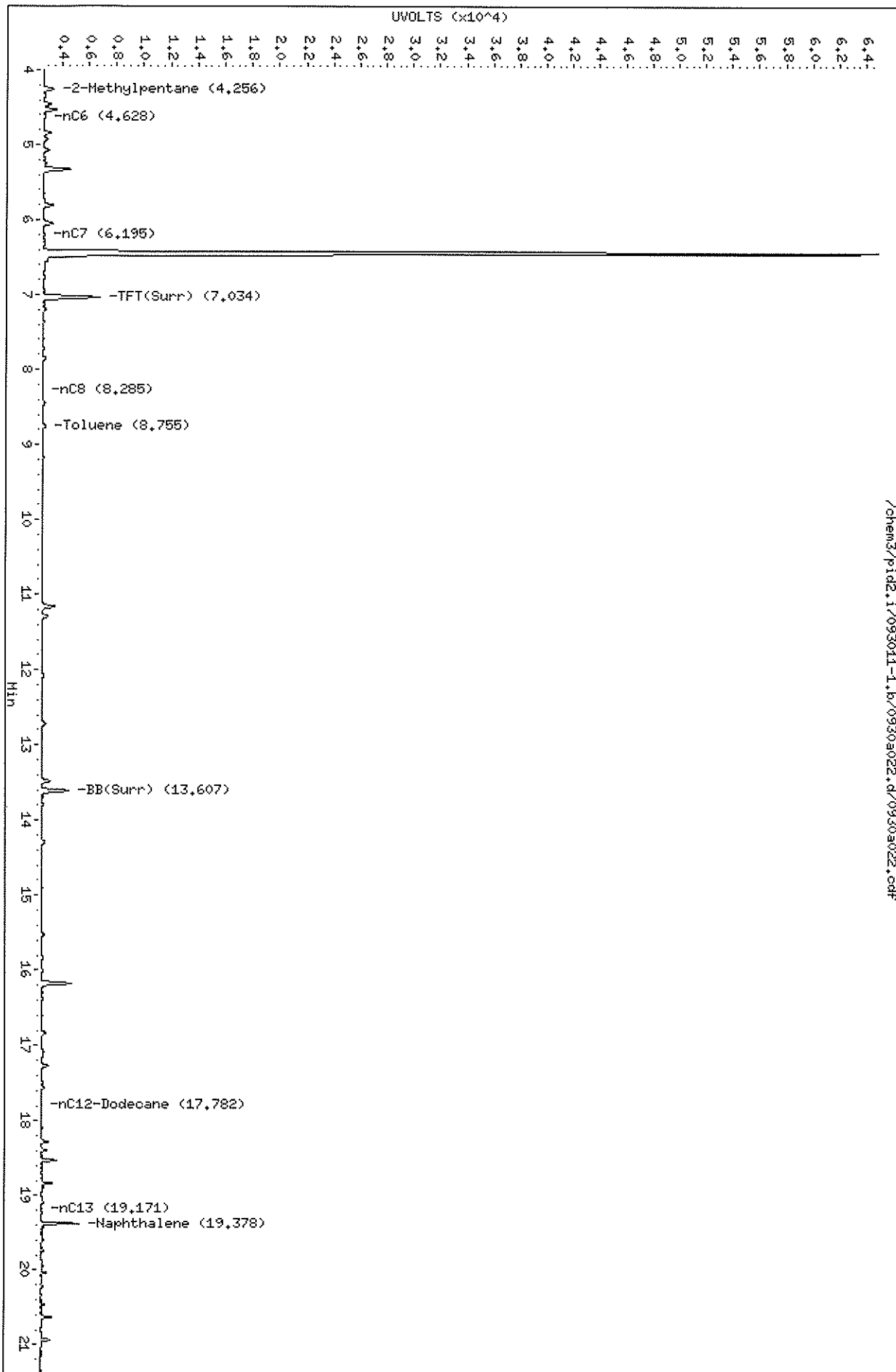
Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Data File: /chem3/pid2.1/093011-1.b/0930a022.d
Date: 30-SEP-2011 15:08
Client ID: MH-100
Sample Info: TML6D,10

Column phase: RTX 502-2 FID

/chem3/pid2.1/093011-1.b/0930a022.d/0930a022.cdf

Instrument: pid2.i
Operator: MH
Column diameter: 0.18



1.0
4.4
4.7
4.8
5.0
5.2
5.4
5.6
5.8
6.0
6.2
6.4

ORGANICS ANALYSIS DATA SHEET
 BETX by Method SW8021BMod
 TPHG by Method NWTPHG
 Page 1 of 1



Sample ID: MW-100
 DILUTION

Lab Sample ID: TN16D
 LIMS ID: 11-20525
 Matrix: Water
 Data Release Authorized: *WVW*
 Reported: 10/06/11

QC Report No: TN16-Kennedy Jenks Consultants
 Project: Ecology Cornet Bay
 Event: NA
 Date Sampled: 09/19/11
 Date Received: 09/20/11

Date Analyzed: 10/03/11 12:05
 Instrument/Analyst: PID2/MH

Purge Volume: 5.0 mL
 Dilution Factor: 20.0

CAS Number	Analyte	RL	Result
71-43-2	Benzene	20	4,000
108-88-3	Toluene	20	< 20 U
100-41-4	Ethylbenzene	20	58
179601-23-1	m,p-Xylene	20	28
95-47-6	o-Xylene	20	< 20 U

Gasoline Range Hydrocarbons 5.0 < 5.0 U GAS ID ---

BETX Surrogate Recovery

Trifluorotoluene	88.2%
Bromobenzene	88.1%

Gasoline Surrogate Recovery

Trifluorotoluene	89.1%
Bromobenzene	88.8%

BETX values reported in µg/L (ppb)
 Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.

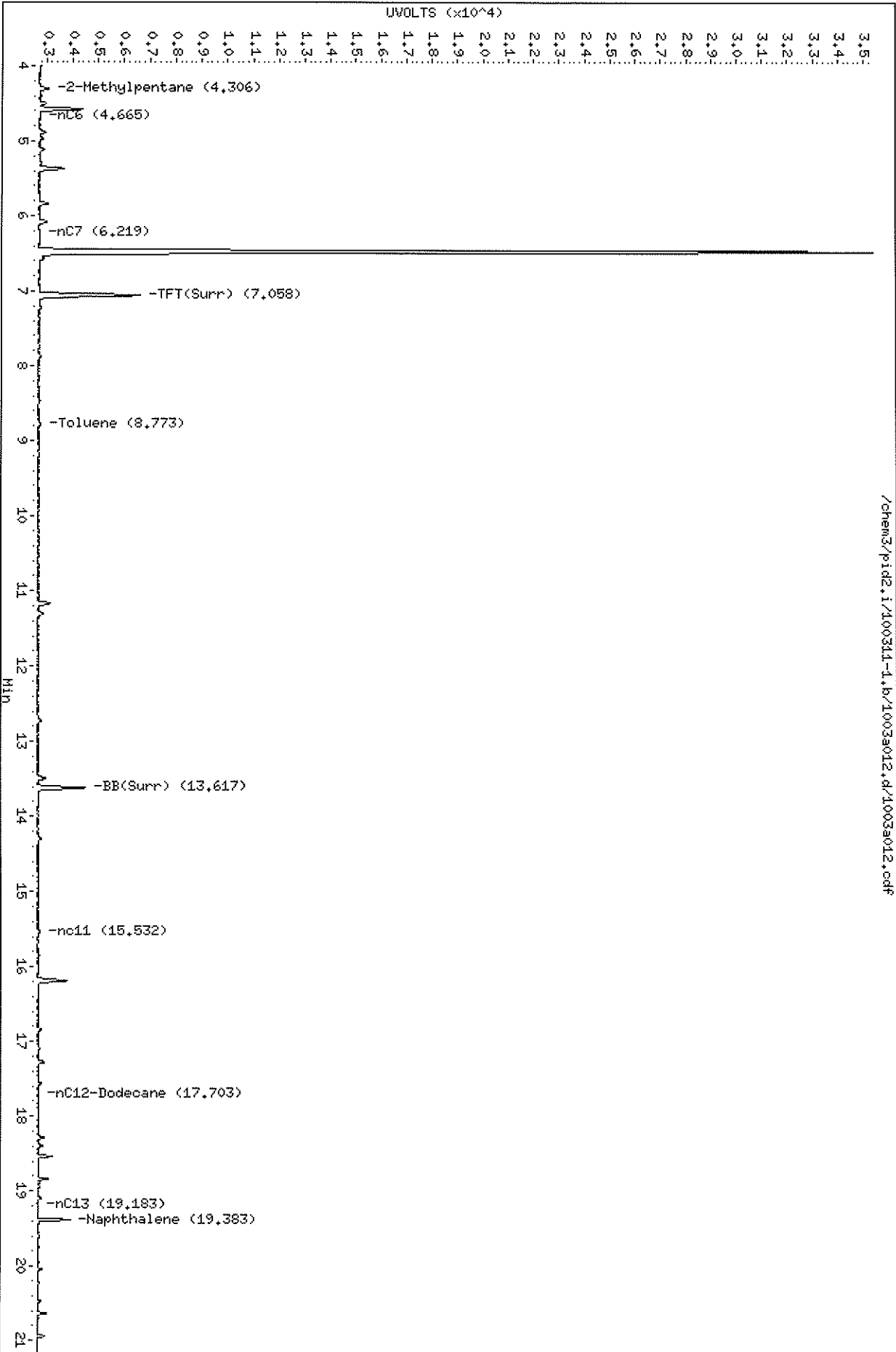
Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Data File: /chem3/pid2.i/100311-1.b/1003a012.d
Date: 03-OCT-2011 12:05
Client ID: MH-100
Sample Info: TML6D,20

Column phase: RTX 602-2 FID

/chem3/pid2.i/100311-1.b/1003a012.d/1003a012.cdf

Instrument: pid2.i
Operator: MH
Column diameter: 0.18



1003a012.cdf

Data File: /chem3/pid2.i/100311-2.b/1003a012.d

Date : 03-OCT-2011 12:05

Client ID: MM-100

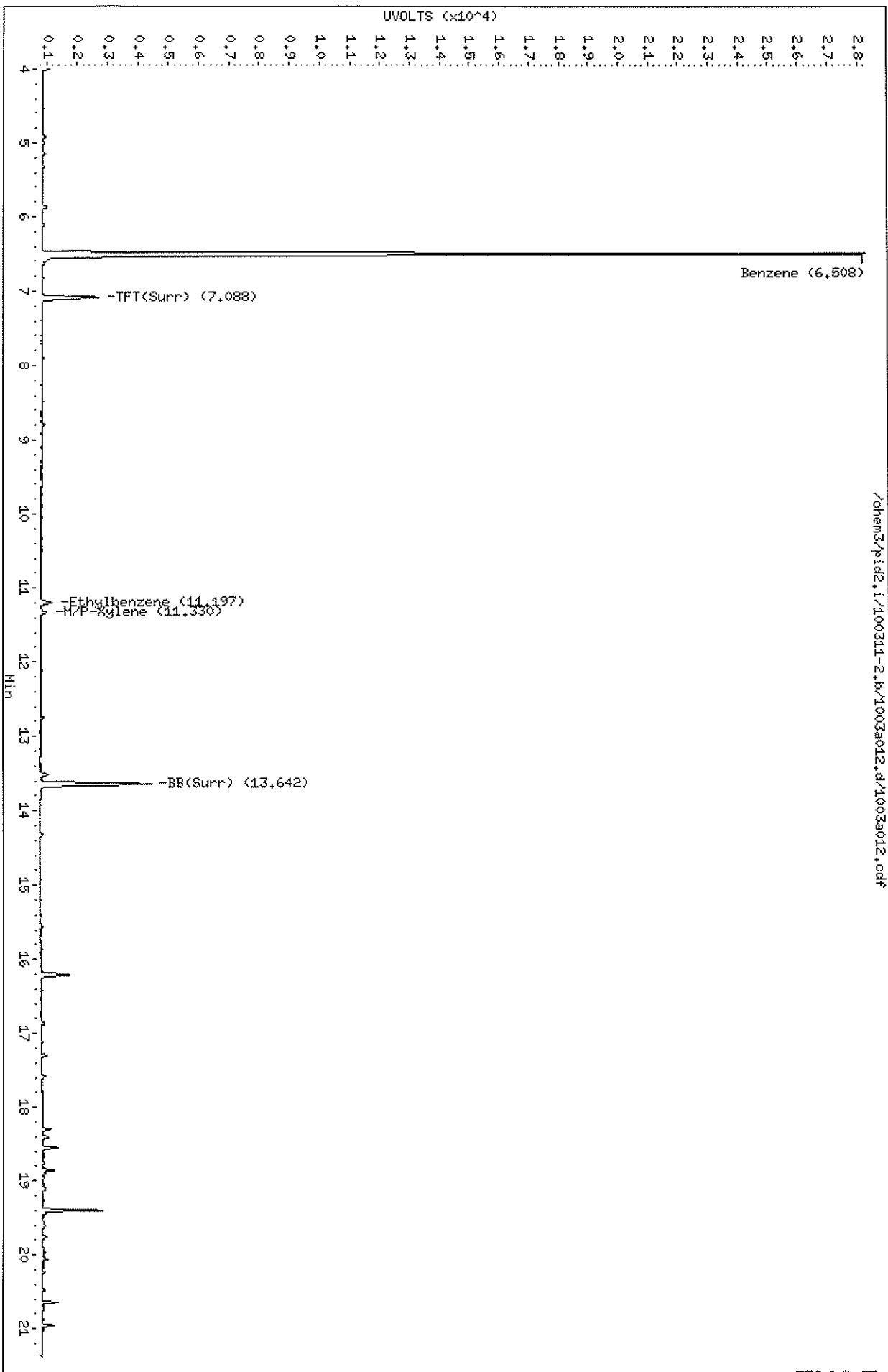
Sample Info: TML6D,20

Column phase: RTX 502-2 PID

Instrument: pid2.i

Operator: HH

Column diameter: 0.18



ORGANICS ANALYSIS DATA SHEET
 BETX by Method SW8021BMod
 TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: MW-5
 SAMPLE

Lab Sample ID: TN16E
 LIMS ID: 11-20526
 Matrix: Water
 Data Release Authorized: *MW*
 Reported: 10/06/11

QC Report No: TN16-Kennedy Jenks Consultants
 Project: Ecology Cornet Bay
 Event: NA
 Date Sampled: 09/20/11
 Date Received: 09/20/11

Date Analyzed: 09/30/11 16:04
 Instrument/Analyst: PID2/MH

Purge Volume: 5.0 mL
 Dilution Factor: 1.00

CAS Number	Analyte	RL	Result	
71-43-2	Benzene	1.0	1,900 E	
108-88-3	Toluene	1.0	1.4	
100-41-4	Ethylbenzene	1.0	5.5	
179601-23-1	m,p-Xylene	1.0	2.7	
95-47-6	o-Xylene	1.0	< 1.0 U	
Gasoline Range Hydrocarbons		0.25	0.64	GAS ID GRO
BETX Surrogate Recovery				
	Trifluorotoluene	98.2%		
	Bromobenzene	94.8%		
Gasoline Surrogate Recovery				
	Trifluorotoluene	96.8%		
	Bromobenzene	94.0%		

BETX values reported in µg/L (ppb)
 Gasoline values reported in mg/L (ppm)

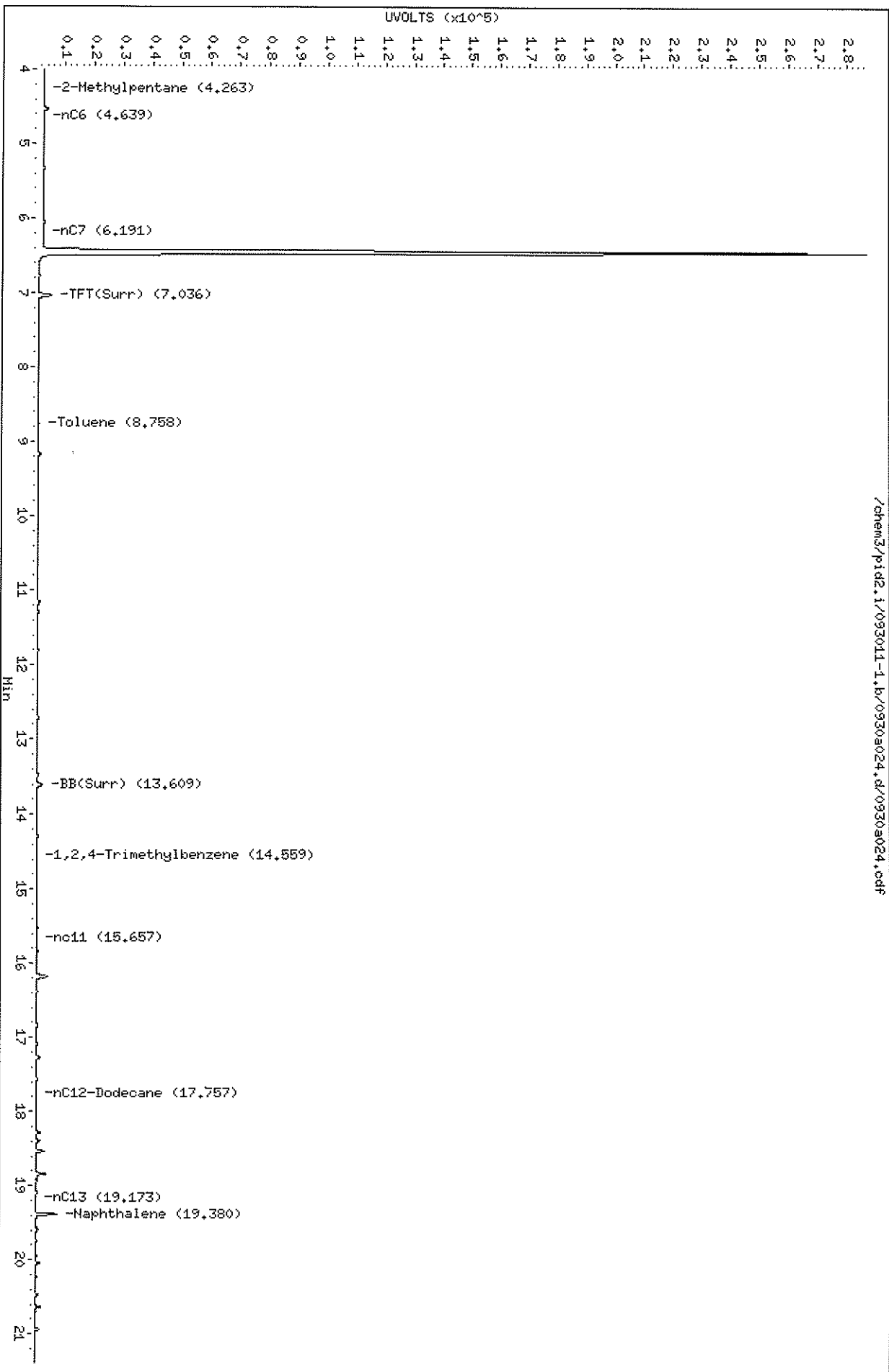
GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Data File: /chem2/pid2.i/093011-1.b/09303024.d
Date: 30-SEP-2011 16:04
Client ID: MH-5
Sample Info: TML6E

Column phase: RTX 502-2 FID

Instrument: pid2.i
Operator: MH
Column diameter: 0.18

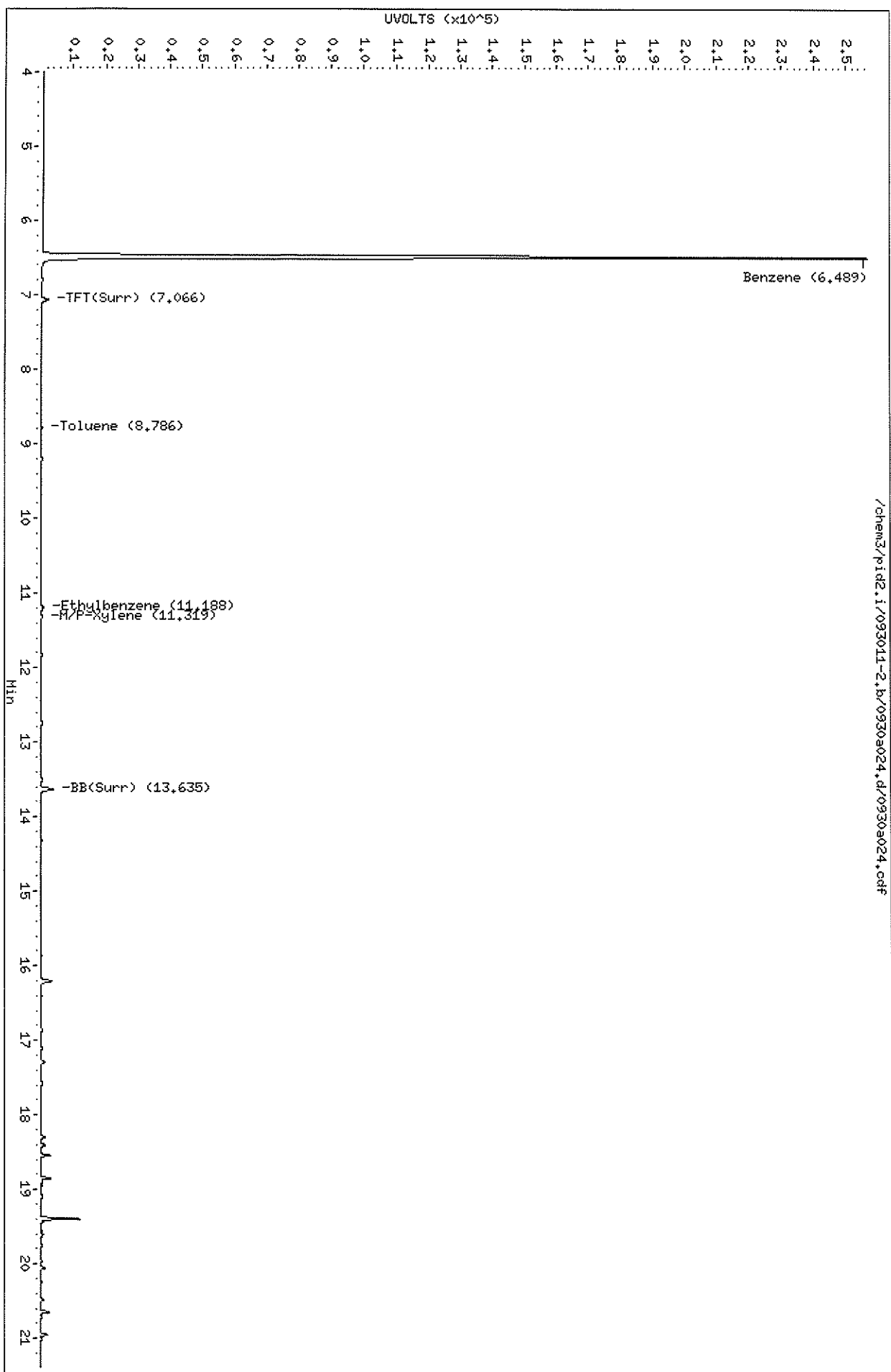


Data File: /chem3/pid2.i/093011-2.b/0930a024.d
Date: 30-SEP-2011 16:04
Client ID: HH-5
Sample Info: TML6E

Column phase: RTX 502-2 PID

Instrument: pid2.i
Operator: HH
Column diameter: 0.18

/chem3/pid2.i/093011-2.b/0930a024.d/0930a024.csf



ORGANICS ANALYSIS DATA SHEET
 BETX by Method SW8021BMod
 TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: MW-5
 DILUTION

Lab Sample ID: TN16E
 LIMS ID: 11-20526
 Matrix: Water
 Data Release Authorized: *WV*
 Reported: 10/06/11

QC Report No: TN16-Kennedy Jenks Consultants
 Project: Ecology Cornet Bay
 Event: NA
 Date Sampled: 09/20/11
 Date Received: 09/20/11

Date Analyzed: 10/03/11 12:33
 Instrument/Analyst: PID2/MH

Purge Volume: 5.0 mL
 Dilution Factor: 10.0

CAS Number	Analyte	RL	Result	GAS ID
71-43-2	Benzene	10	1,900	
108-88-3	Toluene	10	< 10 U	
100-41-4	Ethylbenzene	10	< 10 U	
179601-23-1	m, p-Xylene	10	< 10 U	
95-47-6	o-Xylene	10	< 10 U	
	Gasoline Range Hydrocarbons	2.5	< 2.5 U	---

BETX Surrogate Recovery

Trifluorotoluene	87.3%
Bromobenzene	86.3%

Gasoline Surrogate Recovery

Trifluorotoluene	87.6%
Bromobenzene	86.3%

BETX values reported in µg/L (ppb)
 Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

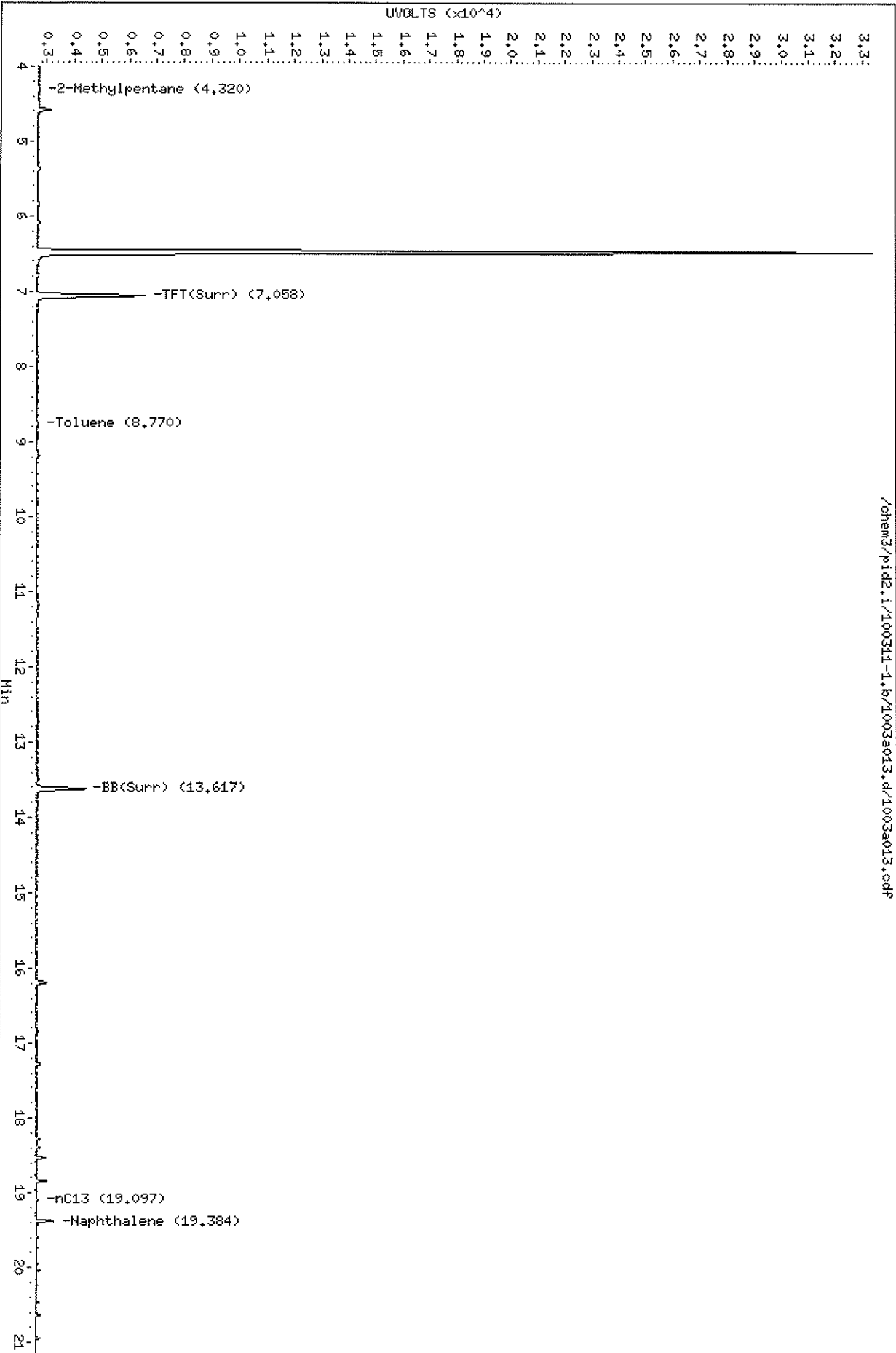
Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Data File: /chem3/pid2.i/100311-1.b/1003a013.d
Date: 03-OCT-2011 12:33
Client ID: MH-5
Sample Info: TML6E,10

Column phase: RTX 502-2 F1D

/chem3/pid2.i/100311-1.b/1003a013.d/1003a013.cdf

Instrument: pid2.i
Operator: MH
Column diameter: 0.18

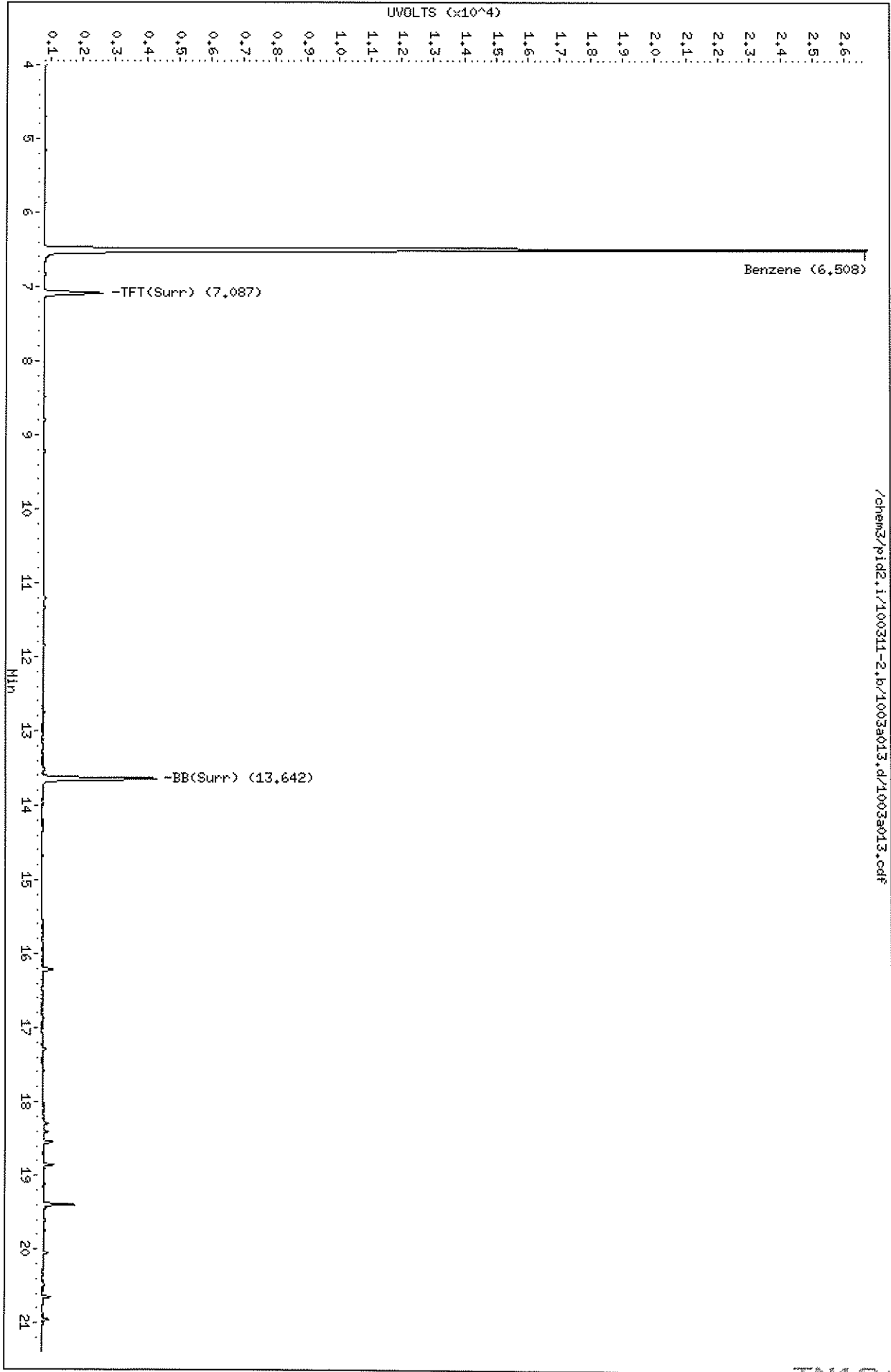


Data File: /chem3/pid2.1/100311-2.b/1003a013.d
Date: 03-OCT-2011 12:33
Client ID: MM-5
Sample Info: TML6E.10

Column phase: RTX 502-2 PID

/chem3/pid2.1/100311-2.b/1003a013.d/1003a013.cdf

Instrument: pid2.1
Operator: MH
Column diameter: 0.18



ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: MW-4
SAMPLE



Lab Sample ID: TN16F

LIMS ID: 11-20527

Matrix: Water

Data Release Authorized: *MW*

Reported: 10/06/11

QC Report No: TN16-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Event: NA

Date Sampled: 09/20/11

Date Received: 09/20/11

Date Analyzed: 09/30/11 15:36

Instrument/Analyst: PID2/MH

Purge Volume: 5.0 mL

Dilution Factor: 10.0

CAS Number	Analyte	RL	Result
71-43-2	Benzene	10	97
108-88-3	Toluene	10	< 10 U
100-41-4	Ethylbenzene	10	< 10 U
179601-23-1	m,p-Xylene	10	< 10 U
95-47-6	o-Xylene	10	< 10 U

Gasoline Range Hydrocarbons	2.5	3.4	GAS ID GRO
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BETX Surrogate Recovery

Trifluorotoluene	92.3%
Bromobenzene	94.1%

Gasoline Surrogate Recovery

Trifluorotoluene	91.7%
Bromobenzene	92.4%

BETX values reported in µg/L (ppb)
Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

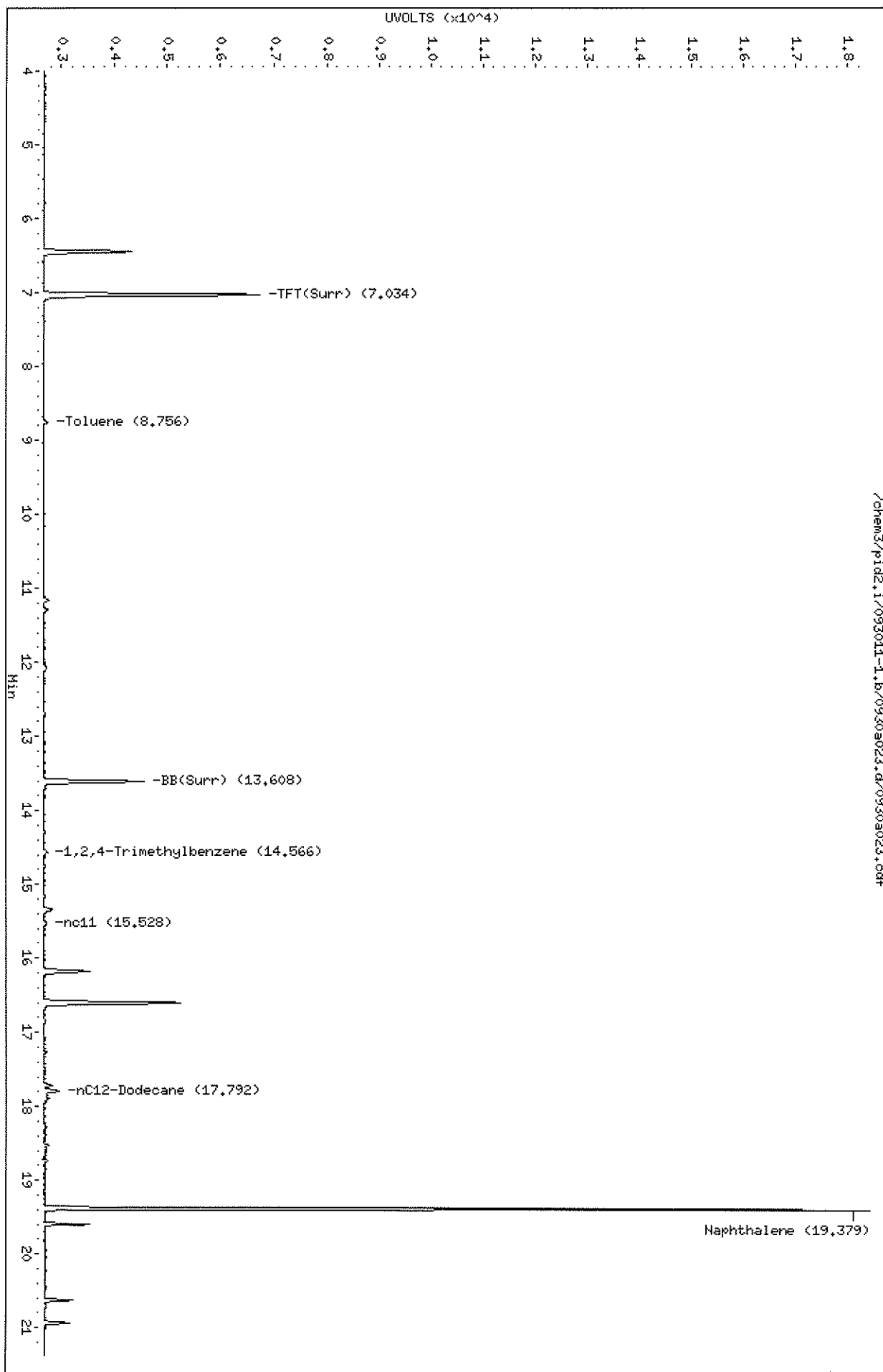
Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Data File: /chem3/pid2.i/093011-1.b/0930a023.d
Date: 30-SEP-2011 15:36
Client ID: MM-4
Sample Info: TML6F_10

Column phase: RTX 502-2 FID

/chem3/pid2.i/093011-1.b/0930a023.d/0930a023.pdf

Instrument: pid2.i
Operator: HH
Column diameter: 0.18



Data File: /chem3/pid2.i/093011-2.b/0930a023.d

Date: 30-SEP-2011 15:36

Client ID: HH-4

Sample Info: TML6F.10

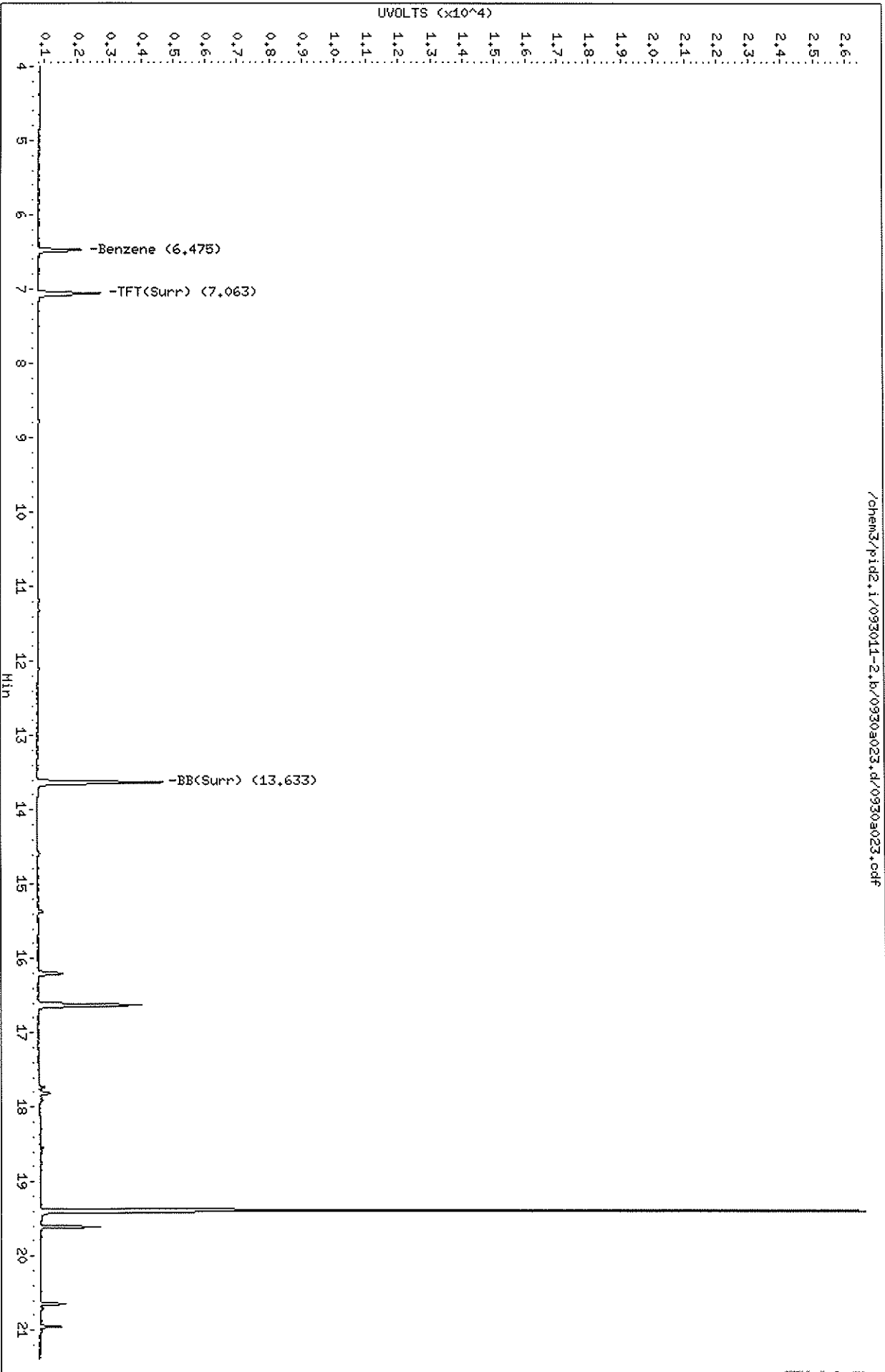
Column phase: RTX 502-2 PID

Instrument: pid2.i

Operator: HH

Column diameter: 0.18

Page 1





ORGANICS ANALYSIS DATA SHEET
 BETX by Method SW8021BMod
 TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: MW-6
 SAMPLE

Lab Sample ID: TN16G
 LIMS ID: 11-20528
 Matrix: Water
 Data Release Authorized: *MW*
 Reported: 10/06/11

QC Report No: TN16-Kennedy Jenks Consultants
 Project: Ecology Cornet Bay
 Event: NA
 Date Sampled: 09/20/11
 Date Received: 09/20/11

Date Analyzed: 10/03/11 11:10
 Instrument/Analyst: PID2/MH

Purge Volume: 5.0 mL
 Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
71-43-2	Benzene	1.0	5.6
108-88-3	Toluene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	4.1
179601-23-1	m,p-Xylene	1.0	2.6
95-47-6	o-Xylene	1.0	< 1.0 U

Gasoline Range Hydrocarbons 0.25 0.90 GAS ID GRO

BETX Surrogate Recovery

Trifluorotoluene	87.3%
Bromobenzene	87.2%

Gasoline Surrogate Recovery

Trifluorotoluene	90.1%
Bromobenzene	87.3%

BETX values reported in µg/L (ppb)
 Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.
 Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Data File: /chem3/pid2.i/100311-1.b/1003a010.d

Date: 03-OCT-2011 11:10

Client ID: MW-6

Sample Info: TML6C

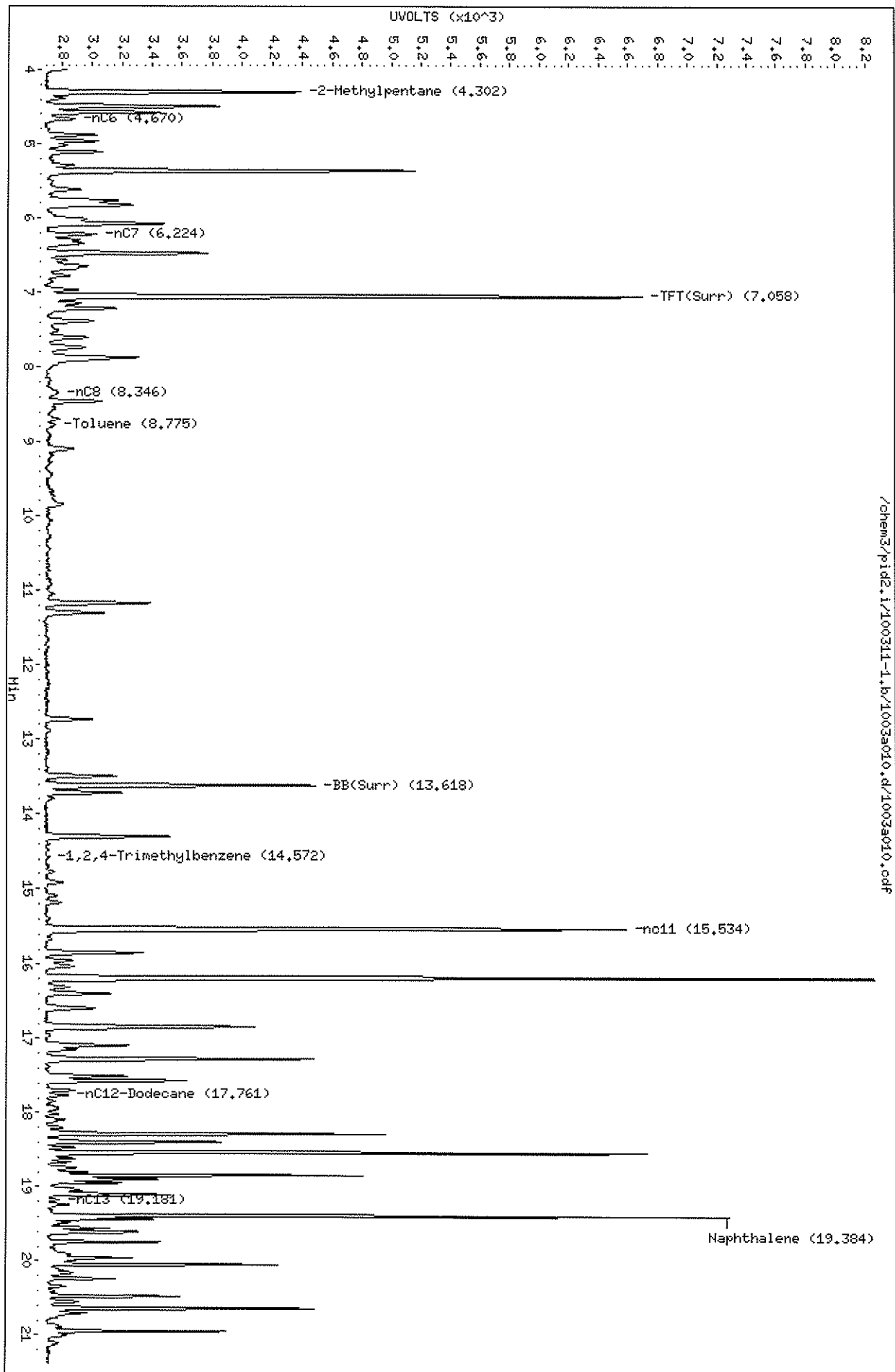
Instrument: pid2.i

Operator: HH

Column diameter: 0.18

Column phase: RTX 502-2 FID

/chem3/pid2.i/100311-1.b/1003a010.d/1003a010.pdf



Data File: /chem3/pid2.i/100311-2.b/10033010.d

Date : 03-OCT-2011 11:10

Client ID: MM-6

Sample Info: TML6G

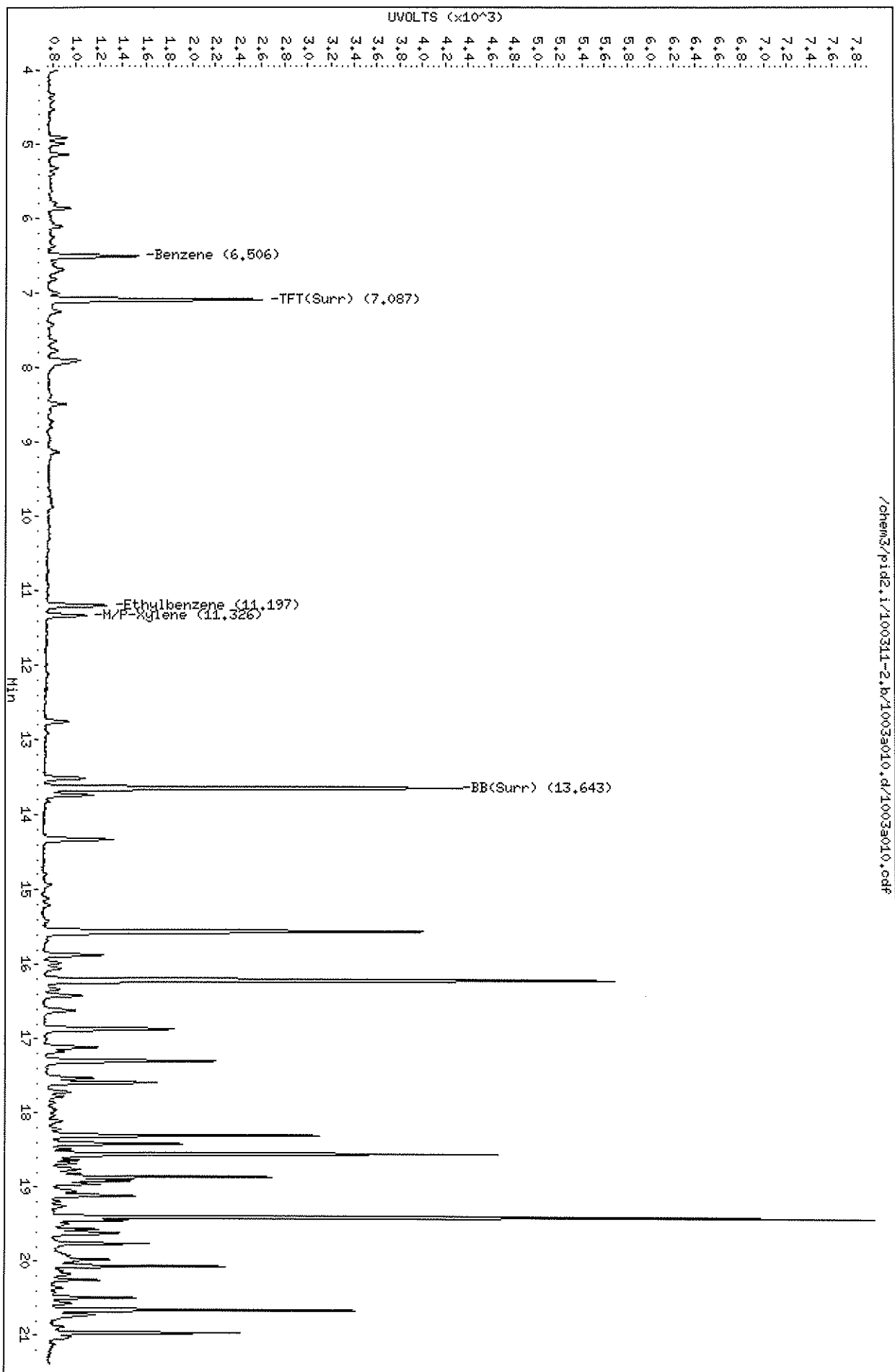
Column phase: RTX 502-2 PID

Instrument: pid2.i

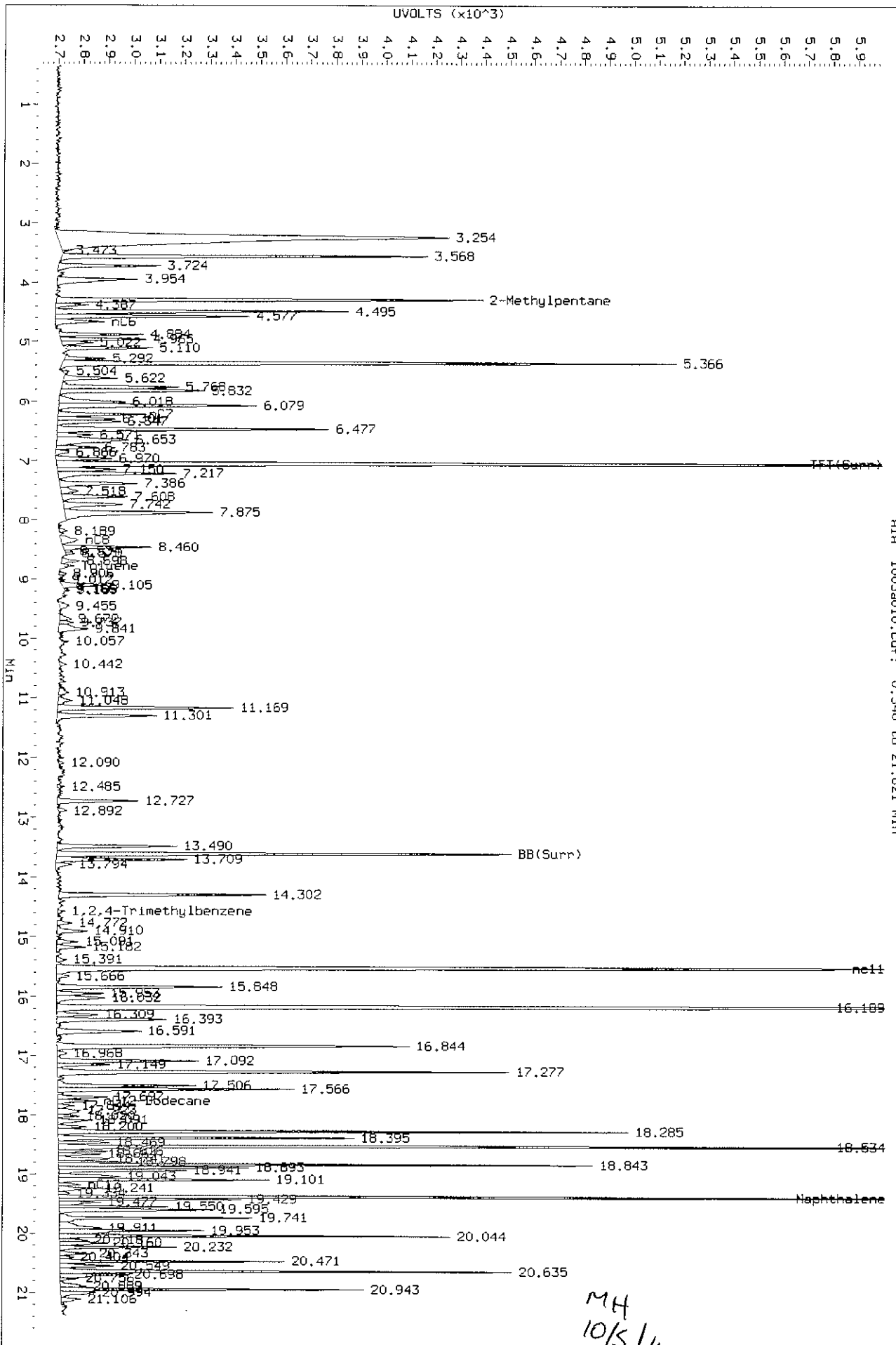
Operator: MM

Column diameter: 0.18

/chem3/pid2.i/100311-2.b/10033010.d/10033010.cdf

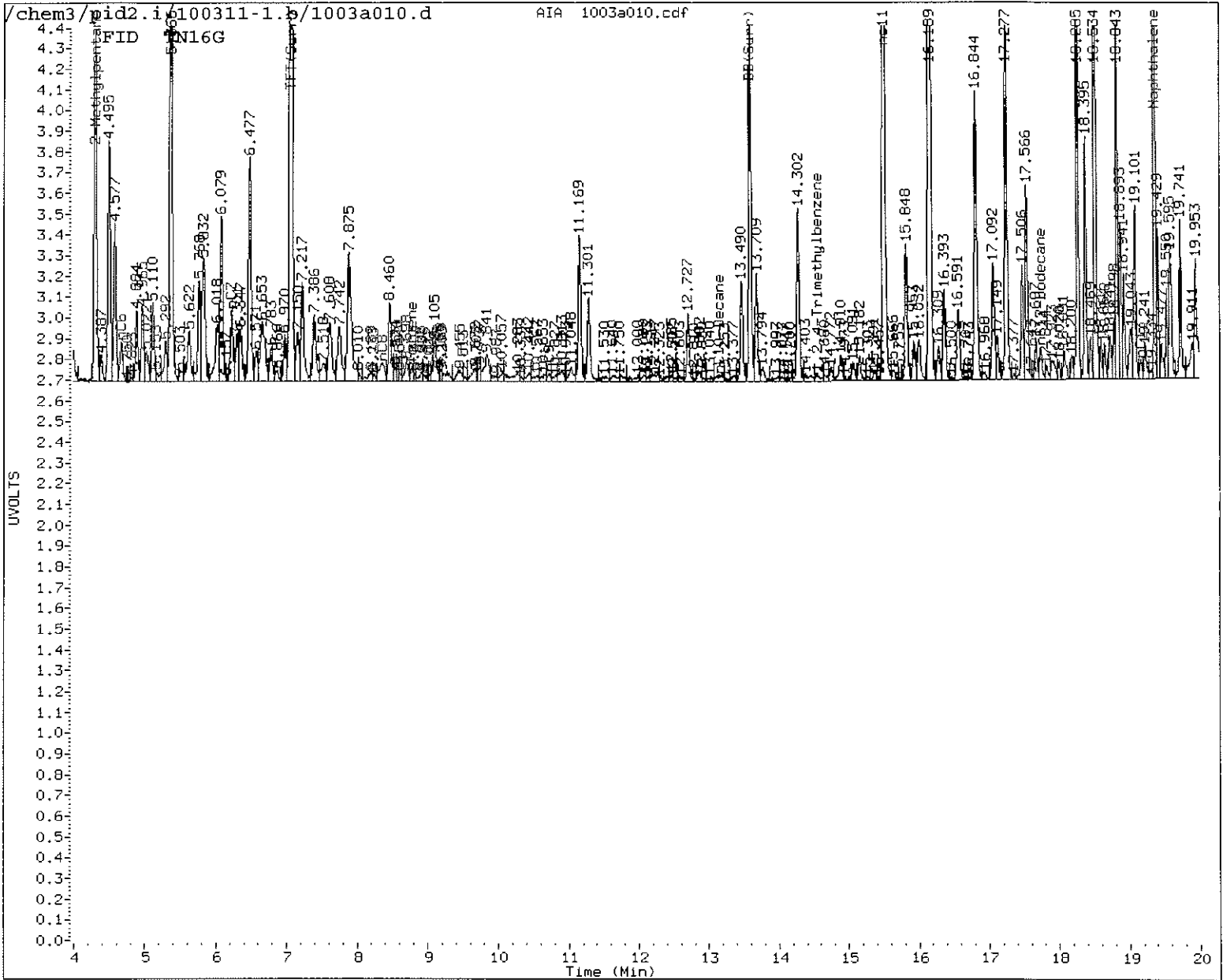


Data File: /chem3/pld2.1/100311-1.b/1003a010.d/1003a010.cdf
 Injection Date: 03-OCT-2011 11:10
 Instrument: pld2.1
 Client Sample ID: MW-6



AIA 1003a010.cdf: 0.340 to 21.621 Min

MH
10/5/11



MANUAL INTEGRATION

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: MH Date: 10/5/11

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: MW-7
SAMPLE



Lab Sample ID: TN16H

LIMS ID: 11-20529

Matrix: Water

Data Release Authorized: *mmw*

Reported: 10/06/11

QC Report No: TN16-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Event: NA

Date Sampled: 09/20/11

Date Received: 09/20/11

Date Analyzed: 09/30/11 17:01

Instrument/Analyst: PID2/MH

Purge Volume: 5.0 mL

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
71-43-2	Benzene	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
179601-23-1	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Gasoline Range Hydrocarbons	0.25	< 0.25 U	GAS ID ---
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BETX Surrogate Recovery

Trifluorotoluene	97.2%
Bromobenzene	96.1%

Gasoline Surrogate Recovery

Trifluorotoluene	97.2%
Bromobenzene	94.7%

BETX values reported in µg/L (ppb)
Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021EMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: RB-01

SAMPLE

Lab Sample ID: TN16I

LIMS ID: 11-20530

Matrix: Water

Data Release Authorized: *MMW*

Reported: 10/06/11

QC Report No: TN16-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Event: NA

Date Sampled: 09/19/11

Date Received: 09/20/11

Date Analyzed: 09/30/11 13:16

Instrument/Analyst: PID2/MH

Purge Volume: 5.0 mL

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result	GAS ID
71-43-2	Benzene	1.0	< 1.0 U	
108-88-3	Toluene	1.0	< 1.0 U	
100-41-4	Ethylbenzene	1.0	< 1.0 U	
179601-23-1	m,p-Xylene	1.0	< 1.0 U	
95-47-6	o-Xylene	1.0	< 1.0 U	
	Gasoline Range Hydrocarbons	0.25	< 0.25 U	---

BETX Surrogate Recovery

Trifluorotoluene	96.2%
Bromobenzene	94.9%

Gasoline Surrogate Recovery

Trifluorotoluene	95.9%
Bromobenzene	92.8%

BETX values reported in µg/L (ppb)
Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1



Sample ID: Trip Blanks
SAMPLE

Lab Sample ID: TN16J

LIMS ID: 11-20531

Matrix: Water

Data Release Authorized: *mw*

Reported: 10/06/11

QC Report No: TN16-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Event: NA

Date Sampled: 09/19/11

Date Received: 09/20/11

Date Analyzed: 09/30/11 12:48

Instrument/Analyst: PID2/MH

Purge Volume: 5.0 mL

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
71-43-2	Benzene	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
179601-23-1	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Gasoline Range Hydrocarbons	0.25	< 0.25 U	GAS ID ---
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BETX Surrogate Recovery

Trifluorotoluene	94.4%
Bromobenzene	92.4%

Gasoline Surrogate Recovery

Trifluorotoluene	94.8%
Bromobenzene	92.0%

BETX values reported in µg/L (ppb)
Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

TPHG WATER SURROGATE RECOVERY SUMMARY

ARI Job: TN16
Matrix: Water

QC Report No: TN16-Kennedy Jenks Consultants
Project: Ecology Cornet Bay
Event: NA

<u>Client ID</u>	<u>TFT</u>	<u>BBZ</u>	<u>TOT OUT</u>
MB-093011	92.8%	90.7%	0
LCS-093011	104%	101%	0
LCSD-093011	105%	103%	0
MW-1	93.5%	90.8%	0
MB-100311	89.9%	87.8%	0
LCS-100311	101%	96.2%	0
LCSD-100311	98.1%	95.9%	0
MW-3	93.8%	91.7%	0
MB-100511	96.9%	97.5%	0
MW-2	92.4%	92.3%	0
MW-2 DL	91.0%	88.7%	0
MW-2 DL	95.5%	96.8%	0
MW-100	93.8%	93.8%	0
MW-100 DL	89.1%	88.8%	0
MW-5	96.8%	94.0%	0
MW-5 DL	87.6%	86.3%	0
MW-4	91.7%	92.4%	0
MW-6	90.1%	87.3%	0
MW-7	97.2%	94.7%	0
RB-01	95.9%	92.8%	0
Trip Blanks	94.8%	92.0%	0

	LCS/MB LIMITS	QC LIMITS
(TFT) = Trifluorotoluene	(80-120)	(80-120)
(BBZ) = Bromobenzene	(80-120)	(80-120)

Log Number Range: 11-20522 to 11-20531

BETX WATER SURROGATE RECOVERY SUMMARY

ARI Job: TN16
Matrix: Water

QC Report No: TN16-Kennedy Jenks Consultants
Project: Ecology Cornet Bay
Event: NA

<u>Client ID</u>	<u>TFT</u>	<u>BBZ</u>	<u>TOT OUT</u>
MB-093011	92.4%	91.8%	0
LCS-093011	100%	96.6%	0
LCSD-093011	101%	100%	0
MW-1	94.2%	92.3%	0
MB-100311	87.9%	87.1%	0
LCS-100311	98.3%	94.0%	0
LCSD-100311	93.8%	91.3%	0
MW-3	94.5%	93.2%	0
MB-100511	99.0%	99.2%	0
LCS-100511	99.0%	97.9%	0
LCSD-100511	98.6%	97.8%	0
MW-2	93.4%	93.7%	0
MW-2 DL	89.7%	88.3%	0
MW-2 DL	94.2%	95.1%	0
MW-100	95.2%	95.2%	0
MW-100 DL	88.2%	88.1%	0
MW-5	98.2%	94.8%	0
MW-5 DL	87.3%	86.3%	0
MW-4	92.3%	94.1%	0
MW-6	87.3%	87.2%	0
MW-7	97.2%	96.1%	0
RB-01	96.2%	94.9%	0
Trip Blanks	94.4%	92.4%	0

	LCS/MB LIMITS	QC LIMITS
(TFT) = Trifluorotoluene	(79-120)	(80-120)
(BBZ) = Bromobenzene	(79-120)	(80-120)

Log Number Range: 11-20522 to 11-20531

Sample ID: LCS-093011
 LAB CONTROL SAMPLE

Lab Sample ID: LCS-093011
 LIMS ID: 11-20522
 Matrix: Water
 Data Release Authorized: *NW*
 Reported: 10/06/11

QC Report No: TN16-Kennedy Jenks Consultants
 Project: Ecology Cornet Bay
 Event: NA
 Date Sampled: NA
 Date Received: NA

Date Analyzed LCS: 09/30/11 06:22
 LCSD: 09/30/11 06:50
 Instrument/Analyst LCS: PID2/MH
 LCSD: PID2/MH

Purge Volume: 5.0 mL
 Dilution Factor LCS: 1.0
 LCSD: 1.0

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Benzene	4.17	3.70	113%	4.37	3.70	118%	4.7%
Toluene	35.6	36.5	97.5%	37.7	36.5	103%	5.7%
Ethylbenzene	10.4	10.7	97.2%	11.0	10.7	103%	5.6%
m,p-Xylene	38.6	40.1	96.3%	40.9	40.1	102%	5.8%
o-Xylene	18.1	18.1	100%	19.3	18.1	107%	6.4%

Reported in µg/L (ppb)

RPD calculated using sample concentrations per SW846.

BETX Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	100%	101%
Bromobenzene	96.6%	100%

ORGANICS ANALYSIS DATA SHEET
TPHG by Method NWTPHG
Page 1 of 1

Sample ID: LCS-093011
LAB CONTROL SAMPLE

Lab Sample ID: LCS-093011
LIMS ID: 11-20522
Matrix: Water
Data Release Authorized: *MM*
Reported: 10/06/11

QC Report No: TN16-Kennedy Jenks Consultants
Project: Ecology Cornet Bay
Event: NA
Date Sampled: NA
Date Received: NA

Date Analyzed LCS: 09/30/11 06:22
LCS: 09/30/11 06:50
Instrument/Analyst LCS: PID2/MH
LCS: PID2/MH

Purge Volume: 5.0 mL
Dilution Factor LCS: 1.0
LCS: 1.0

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCS	LCS	Spike Added-LCS	LCS	RPD
Gasoline Range Hydrocarbons	0.95	1.00	95.0%	0.95	0.95	1.00	95.0%	0.0%

Reported in mg/L (ppm)

RPD calculated using sample concentrations per SW846.

TPHG Surrogate Recovery

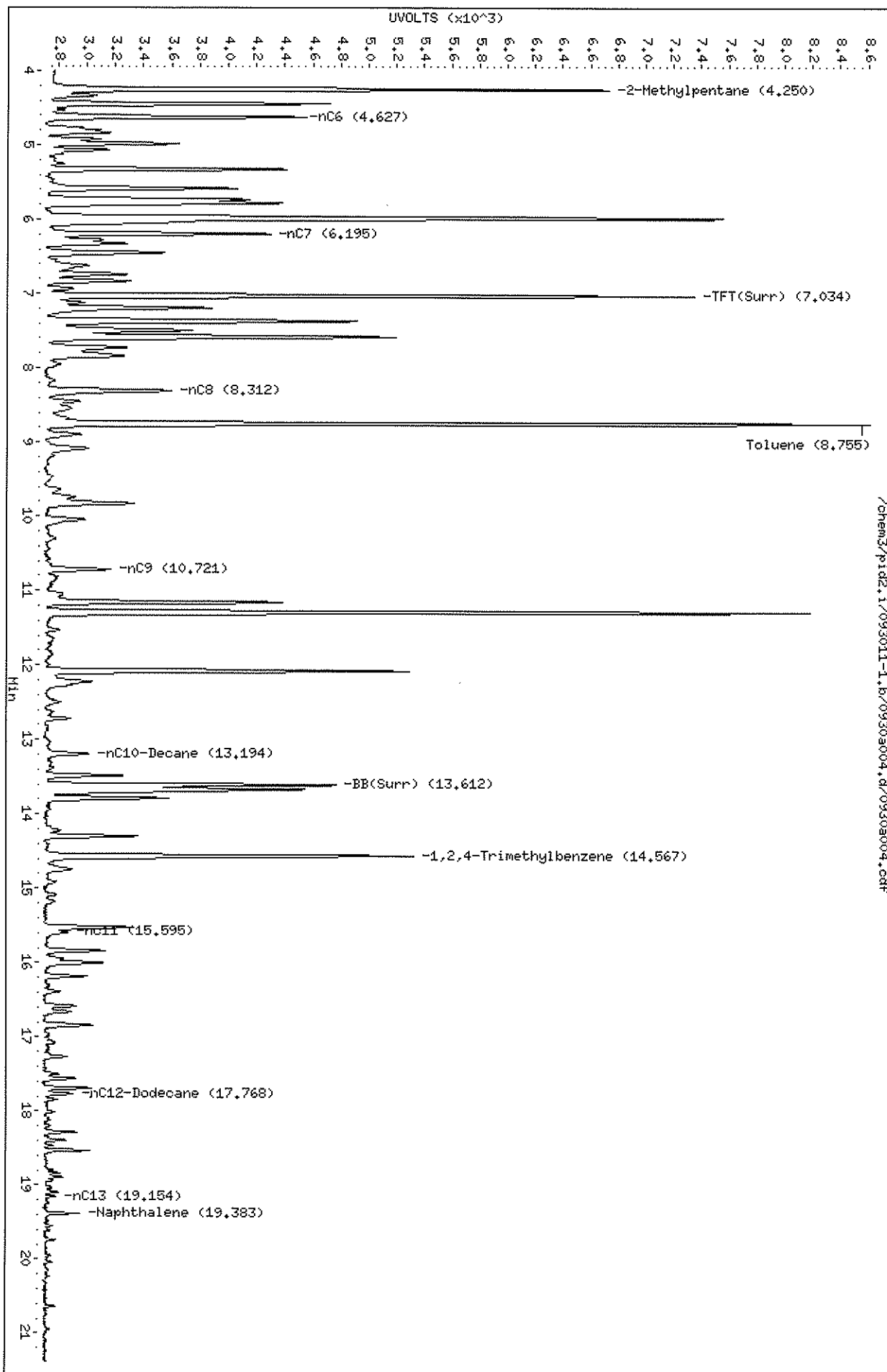
	LCS	LCS
Trifluorotoluene	104%	105%
Bromobenzene	101%	103%

Data File: /chem3/pid2.1/093011-1.b/0930a004.d
Date: 30-SEP-2011 06:22
Client ID:
Sample Info: LCS0930

Column phase: RTX 502-2 FID

/chem3/pid2.1/093011-1.b/0930a004.d/0930a004.cdf

Instrument: pid2.1
Operator: NH
Column diameter: 0.18



Data File: /chem3/pid2.i/093011-2.b/0930a004.d

Date: 30-SEP-2011 06:22

Client ID:

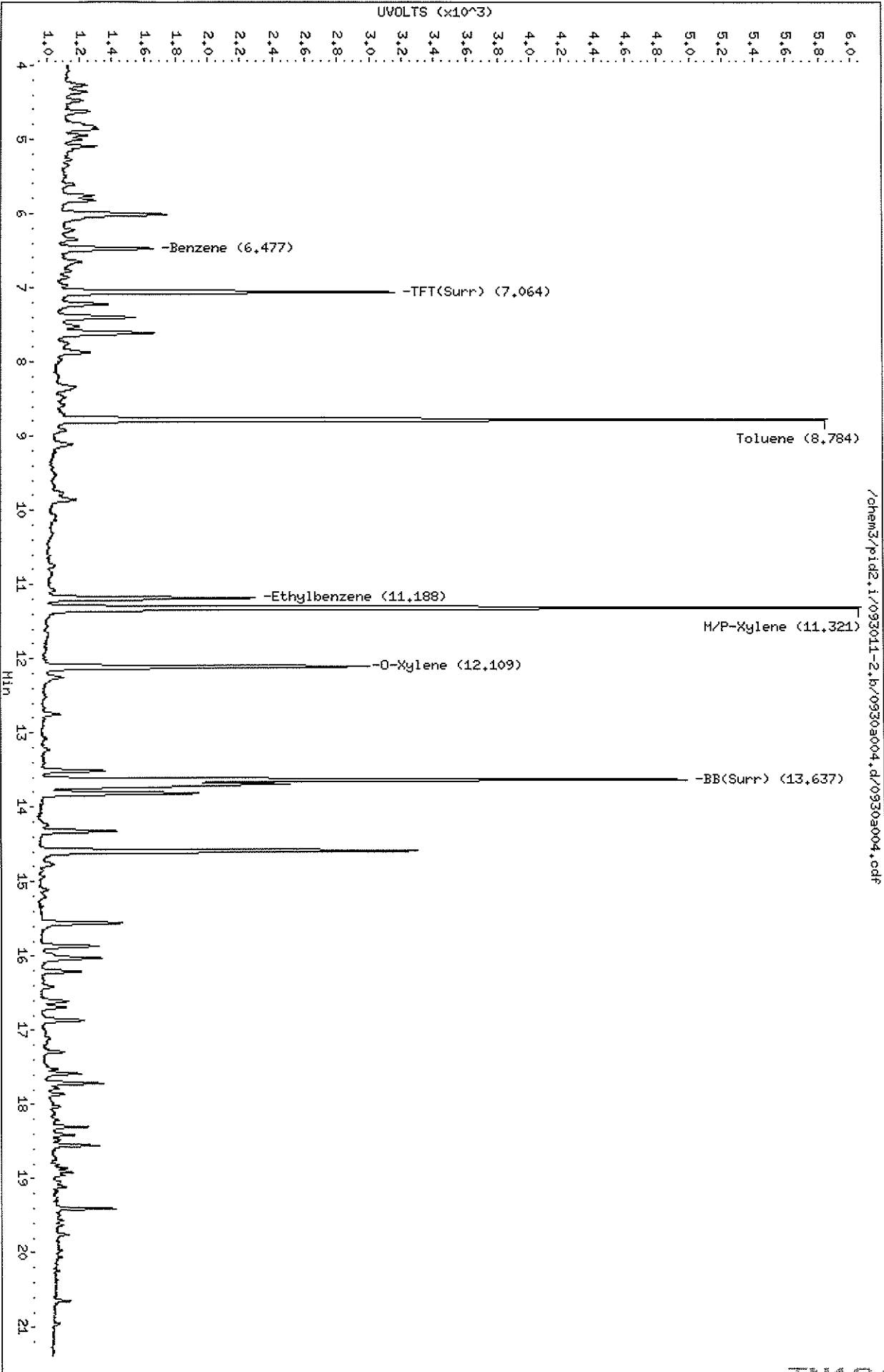
Sample Info: LCS0930

Column phase: RTX 502-2 PID

Instrument: pid2.i

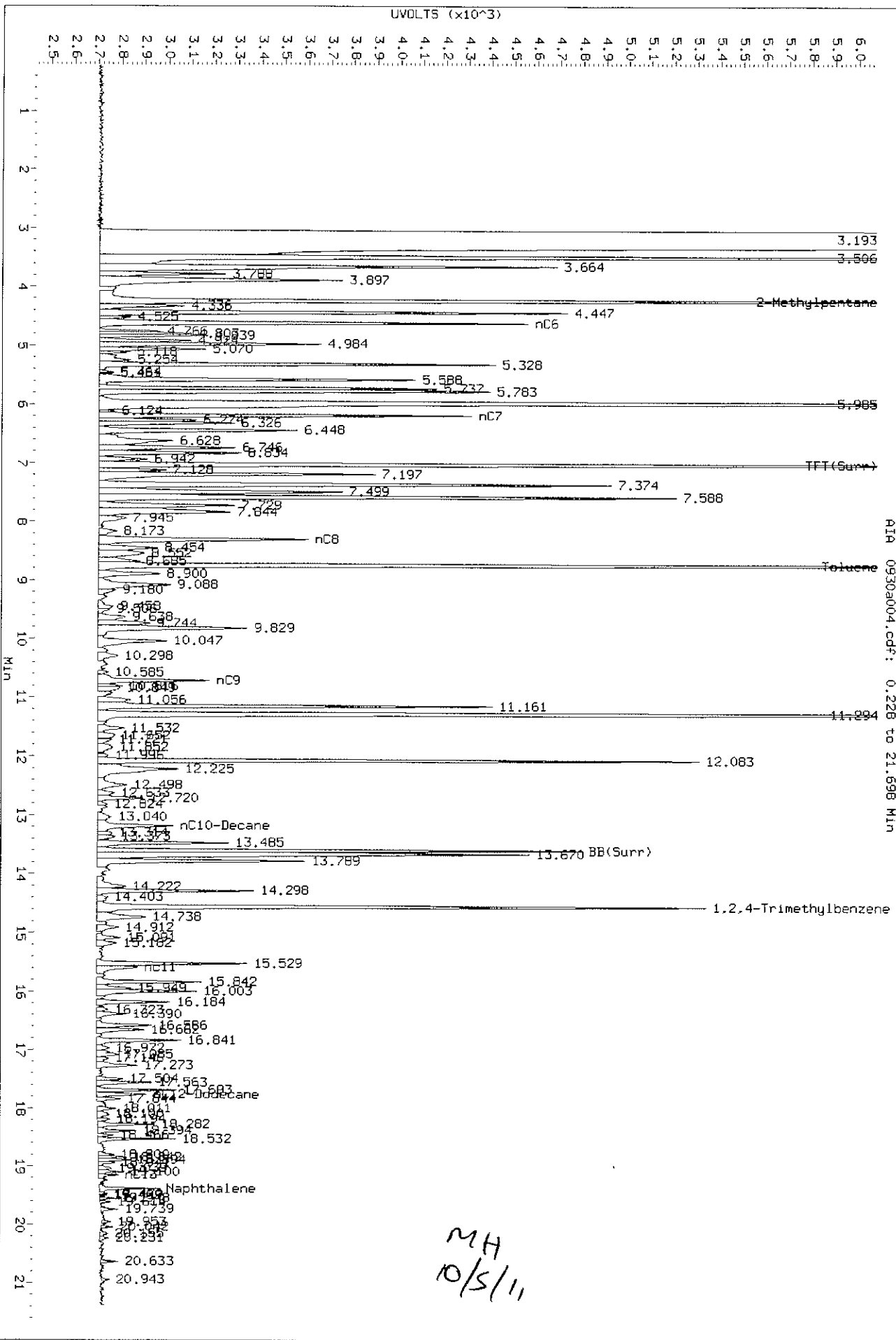
Operator: HH

Column diameter: 0.18



093011-2.b/0930a004.d

Data File: /chem3/pid2.1/093011-1.b/0930a004.d/0930a004.cdf
 Injection Date: 30-SEP-2011 06:22
 Instrument: pid2.1
 Client Sample ID:



AIA 0930a004.cdf: 0.228 to 21.698 Min

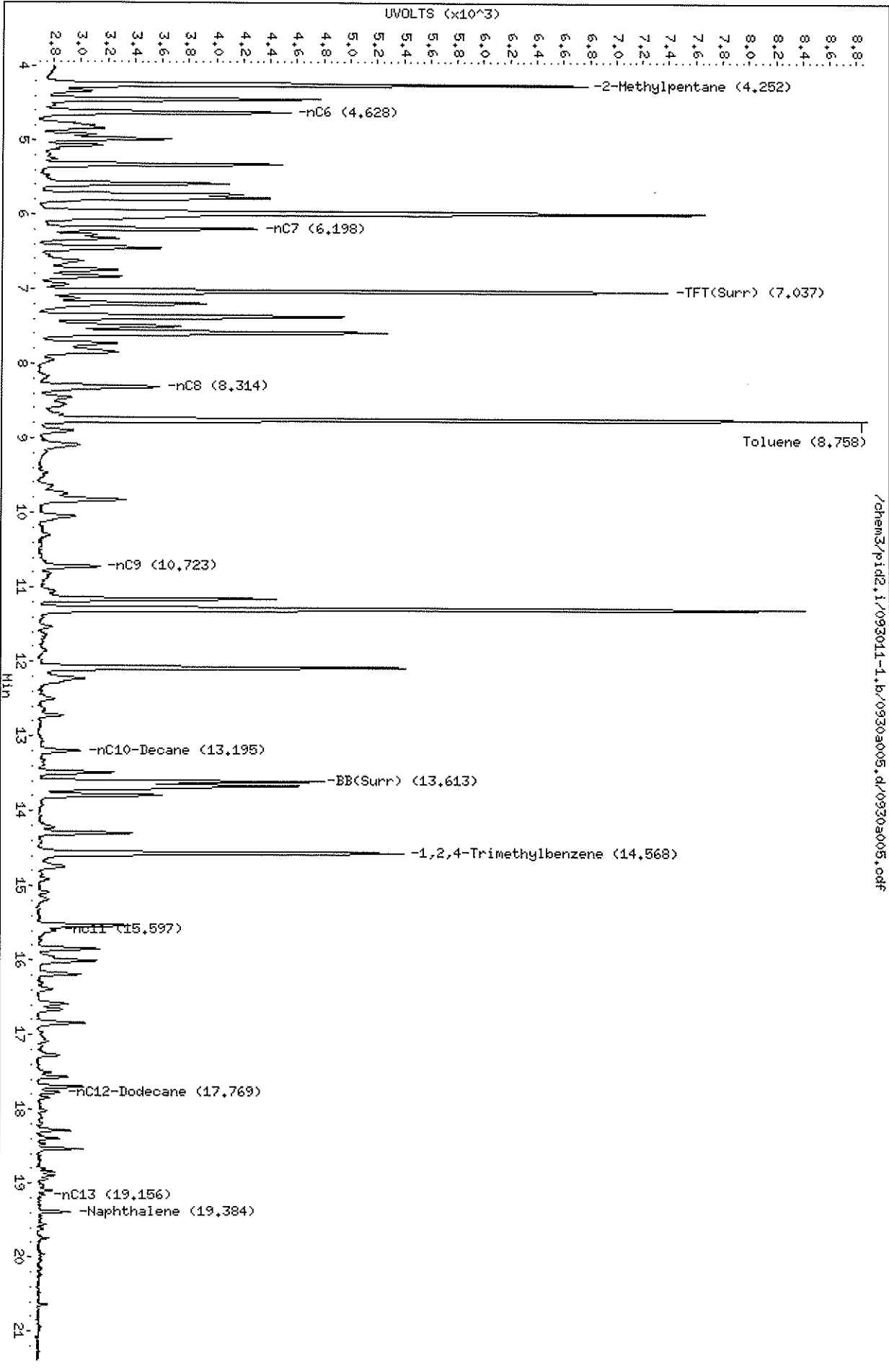
MH
10/5/11

Data File: /chem3/pid2.i/093011-1.b/0930a005.n
Date: 30-SEP-2011 06:50
Client ID:
Sample Info: LCSD0930

Column phase: RTX 502-2 FID

Instrument: pid2.i
Operator: HH
Column diameter: 0.18

/chem3/pid2.i/093011-1.b/0930a005.d/0930a005.pdf



Data File: /chem3/pid2.i/093011-2.b/09303005.d

Date: 30-SEP-2011 06:50

Client ID:

Sample Info: LCSD0930

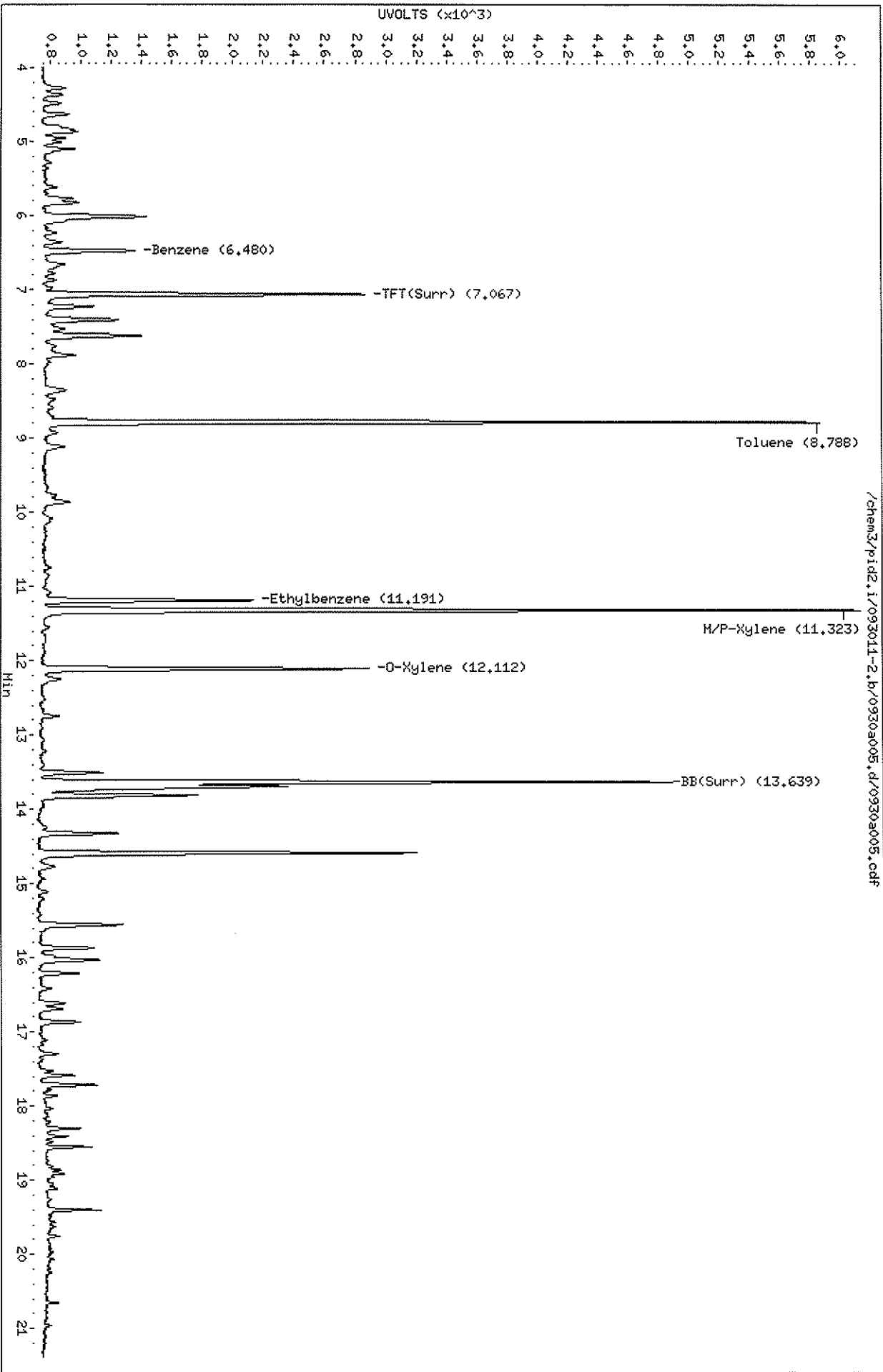
Column phase: RTX 502-2 PID

Instrument: pid2.i

Operator: HH

Column diameter: 0.18

/chem3/pid2.i/093011-2.b/09303005.d/09303005.cdf





Sample ID: LCS-100311
 LAB CONTROL SAMPLE

Lab Sample ID: LCS-100311
 LIMS ID: 11-20523
 Matrix: Water
 Data Release Authorized: *MM*
 Reported: 10/06/11

QC Report No: TN16-Kennedy Jenks Consultants
 Project: Ecology Cornet Bay
 Event: NA
 Date Sampled: NA
 Date Received: NA

Date Analyzed LCS: 10/03/11 07:31
 LCSD: 10/03/11 07:59
 Instrument/Analyst LCS: PID2/MH
 LCSD: PID2/MH

Purge Volume: 5.0 mL
 Dilution Factor LCS: 1.0
 LCSD: 1.0

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Benzene	4.36	3.70	118%	4.32	3.70	117%	0.9%
Toluene	36.7	36.5	101%	36.4	36.5	99.7%	0.8%
Ethylbenzene	10.6	10.7	99.1%	10.4	10.7	97.2%	1.9%
m,p-Xylene	40.3	40.1	100%	39.2	40.1	97.8%	2.8%
o-Xylene	18.7	18.1	103%	18.5	18.1	102%	1.1%

Reported in µg/L (ppb)

RPD calculated using sample concentrations per SW846.

BETX Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	98.3%	93.8%
Bromobenzene	94.0%	91.3%

ORGANICS ANALYSIS DATA SHEET

TPHG by Method NWTPHG

Page 1 of 1



Sample ID: LCS-100311

LAB CONTROL SAMPLE

Lab Sample ID: LCS-100311

LIMS ID: 11-20523

Matrix: Water

Data Release Authorized: *mm*

Reported: 10/06/11

QC Report No: TN16-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Event: NA

Date Sampled: NA

Date Received: NA

Date Analyzed LCS: 10/03/11 07:31

LCS D: 10/03/11 07:59

Instrument/Analyst LCS: PID2/MH

LCS D: PID2/MH

Purge Volume: 5.0 mL

Dilution Factor LCS: 1.0

LCS D: 1.0

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCS D	Spike Added-LCS D	LCS D Recovery	RPD
Gasoline Range Hydrocarbons	0.93	1.00	93.0%	0.95	1.00	95.0%	2.1%

Reported in mg/L (ppm)

RPD calculated using sample concentrations per SW846.

TPHG Surrogate Recovery

	LCS	LCS D
Trifluorotoluene	101%	98.1%
Bromobenzene	96.2%	95.9%

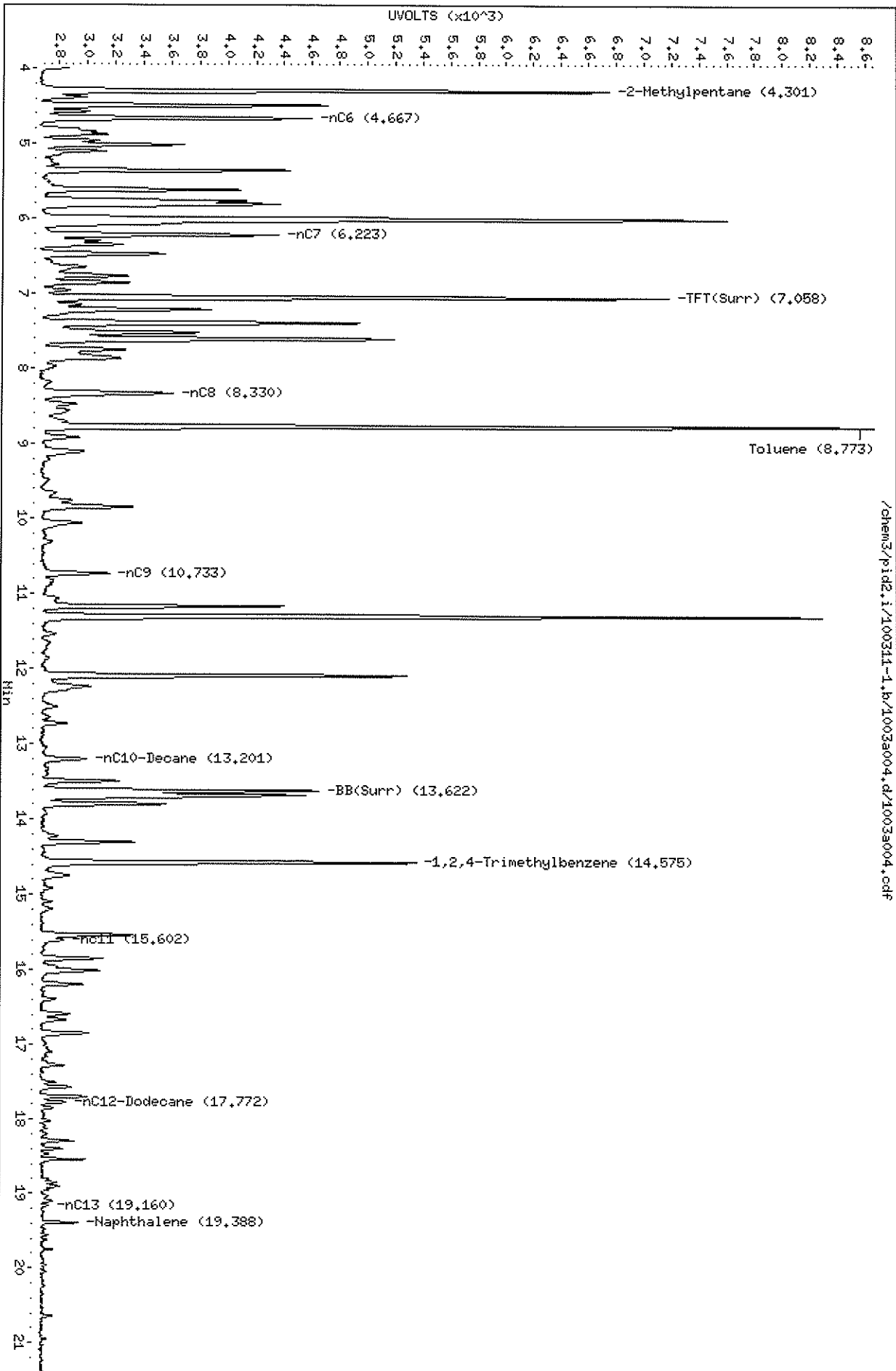
Data File: /chem3/pid2.i/100311-1.b/10033004.d
Date: 03-OCT-2011 07:31
Client ID:
Sample Info: LCS1003

Column Phase: RTX 502-2 FID

/chem3/pid2.i/100311-1.b/10033004.d/10033004.cdf

Instrument: pid2.i
Operator: HH
Column diameter: 0.18

Page 1

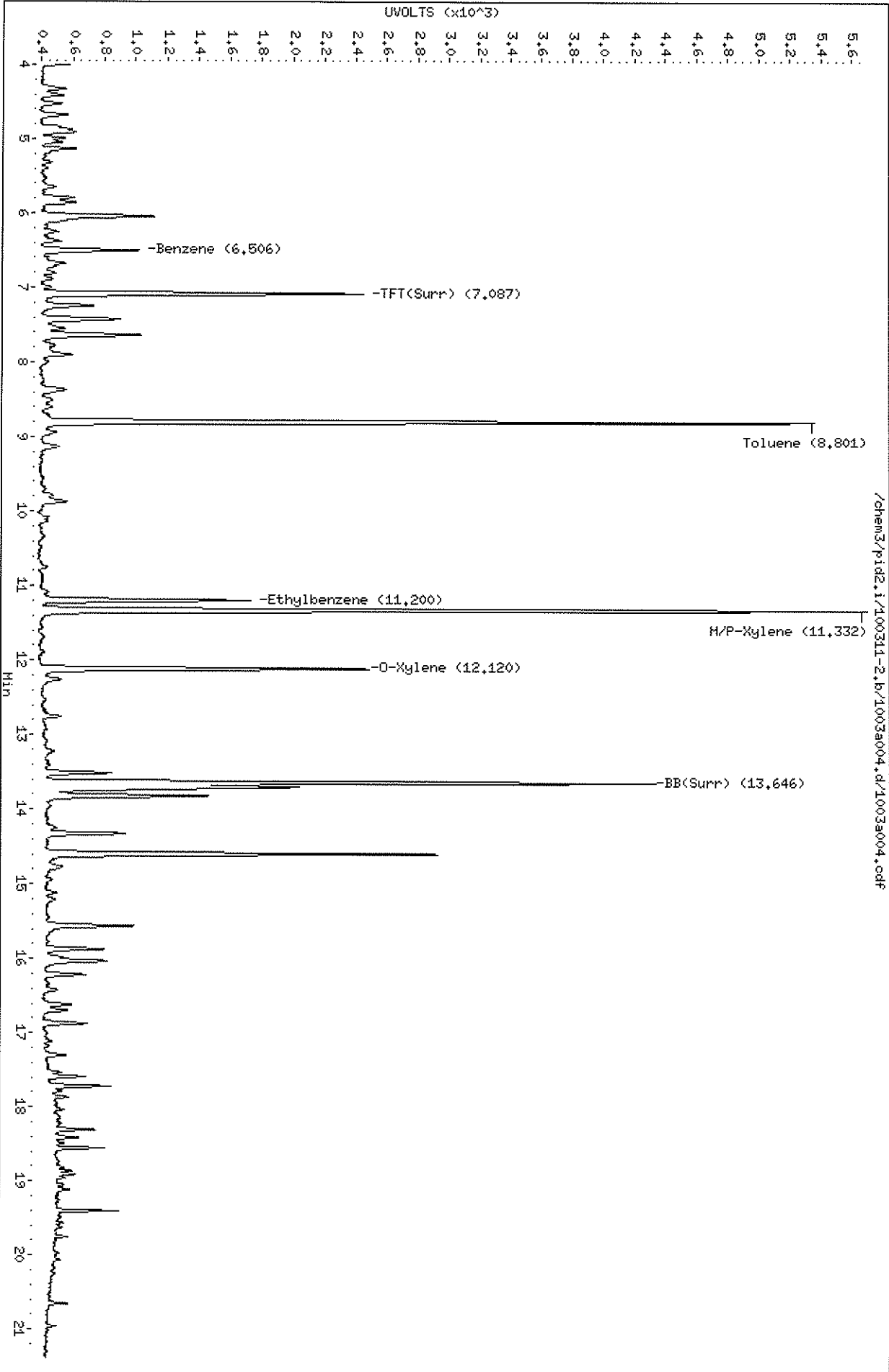


02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21

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Date : 03-OCT-2011 07:34
Client ID:
Sample Info: LCS1003

Column phase: RTX 502-2 PID

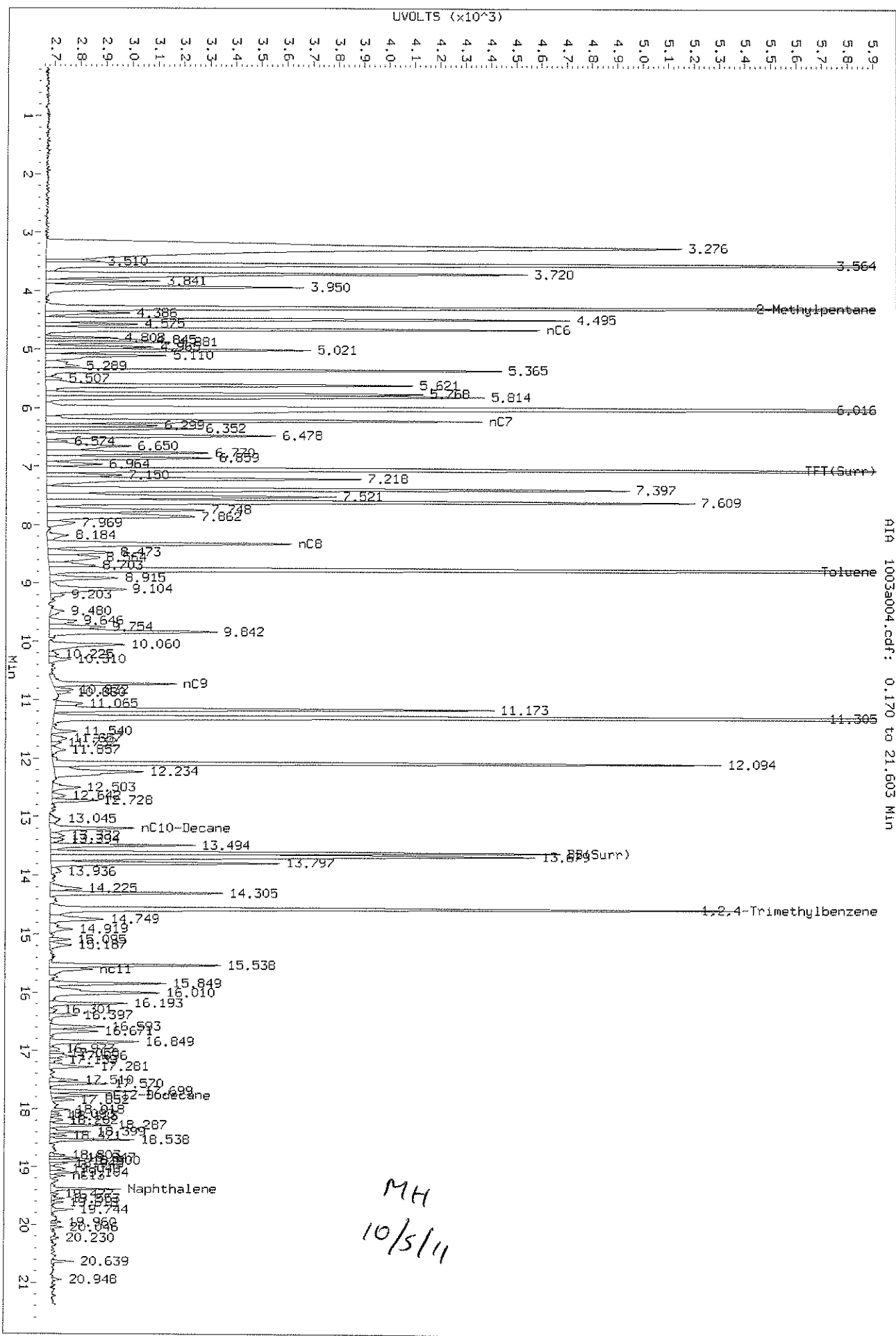
Instrument: pid2.i
Operator: HH
Column diameter: 0.18



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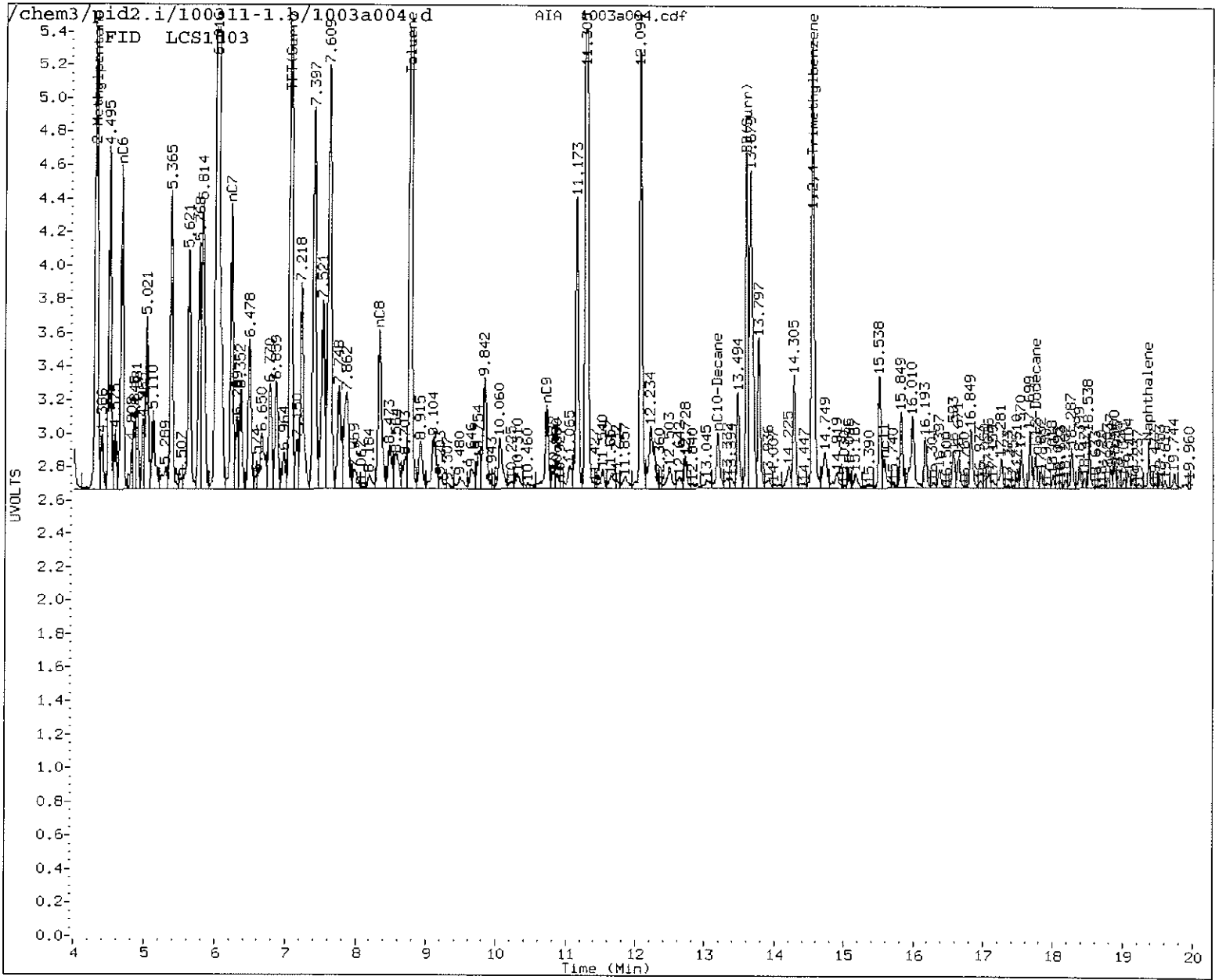
03 11 07 07:34

Data File: /chem3/pid2.1/100311-1.b/1003a004.d/1003a004.cdf
Injection Date: 03-OCT-2011 07:31
Instrument: pid2.1
Client Sample ID:



1003a004.cdf: 0.170 to 21.603 Min

MH
10/5/11



MANUAL INTEGRATION

- Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

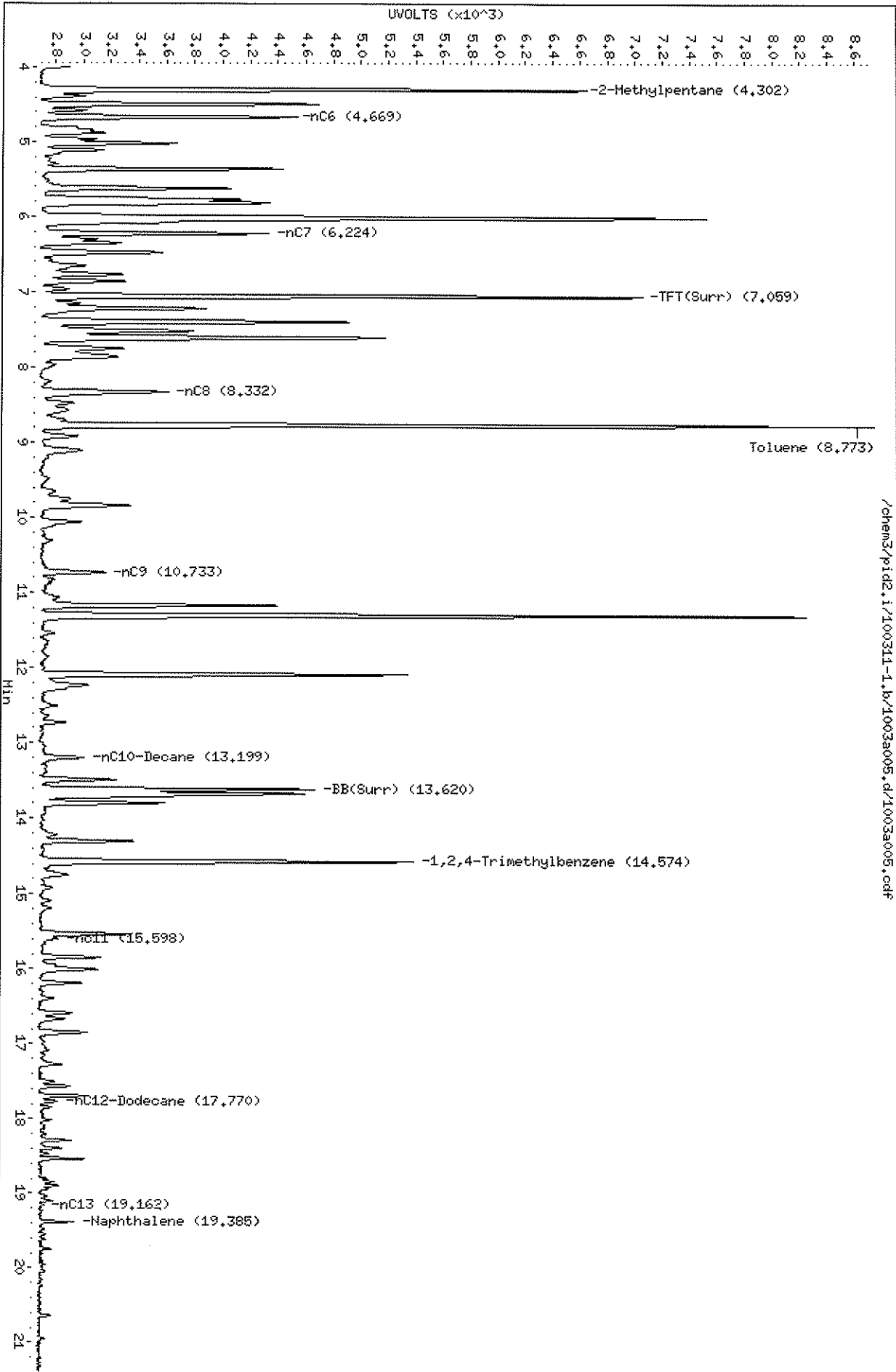
Analyst: MT Date: 10/5/11

Data File: /chem3/pid2.i/100311-1.b/1003a005.d
Date: 03-OCT-2011 07:59
Client ID:
Sample Info: LCSD1003

Column phase: RTX 502-2 FID

/chem3/pid2.i/100311-1.b/1003a005.d/1003a005.cdf

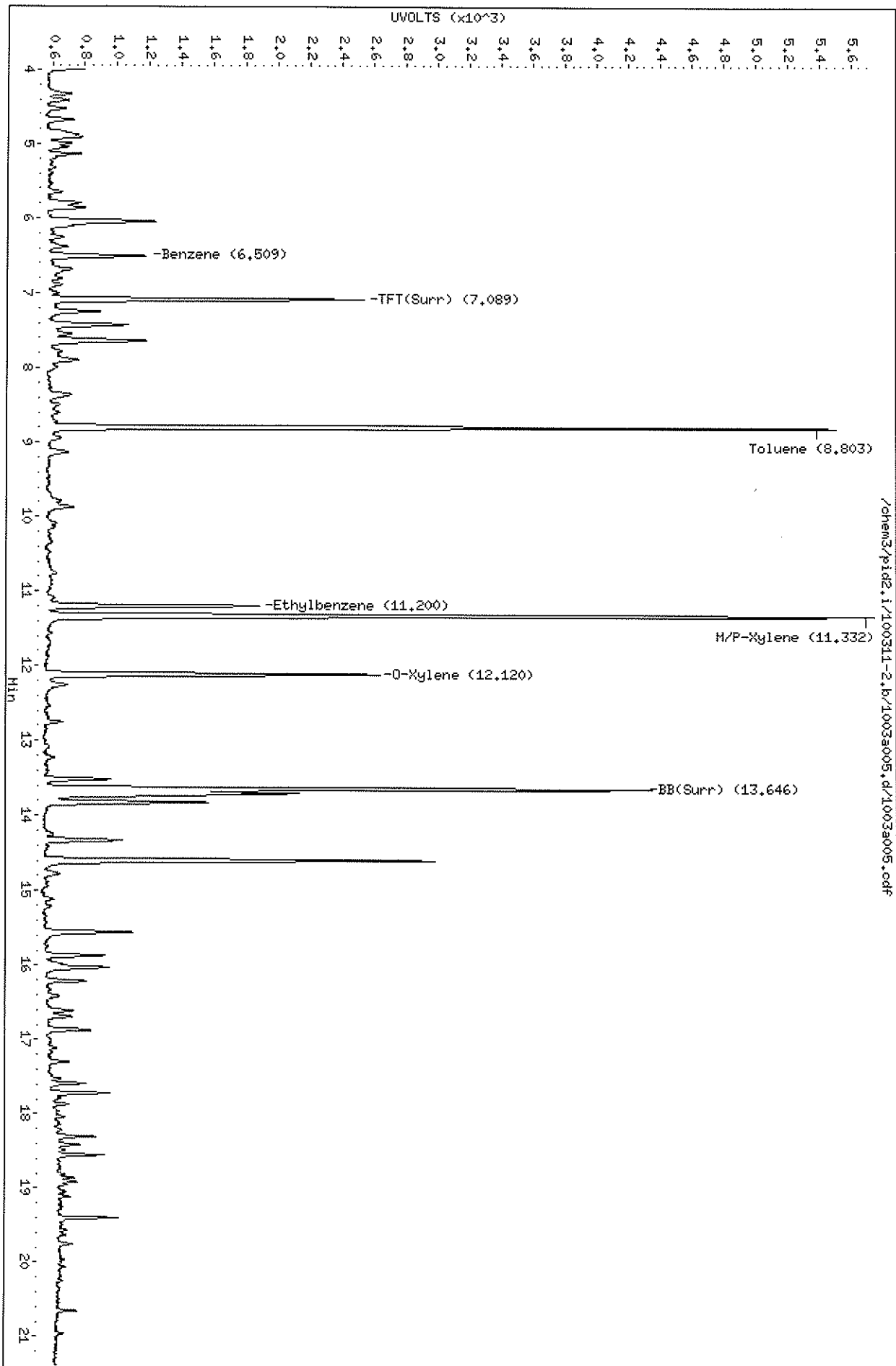
Instrument: pid2.i
Operator: HH
Column diameter: 0.18



Data File: /chem3/pid2.i/100311-2.b/1003a005.d
Date: 03-OCT-2011 07:59
Client ID:
Sample Info: LCSD1003

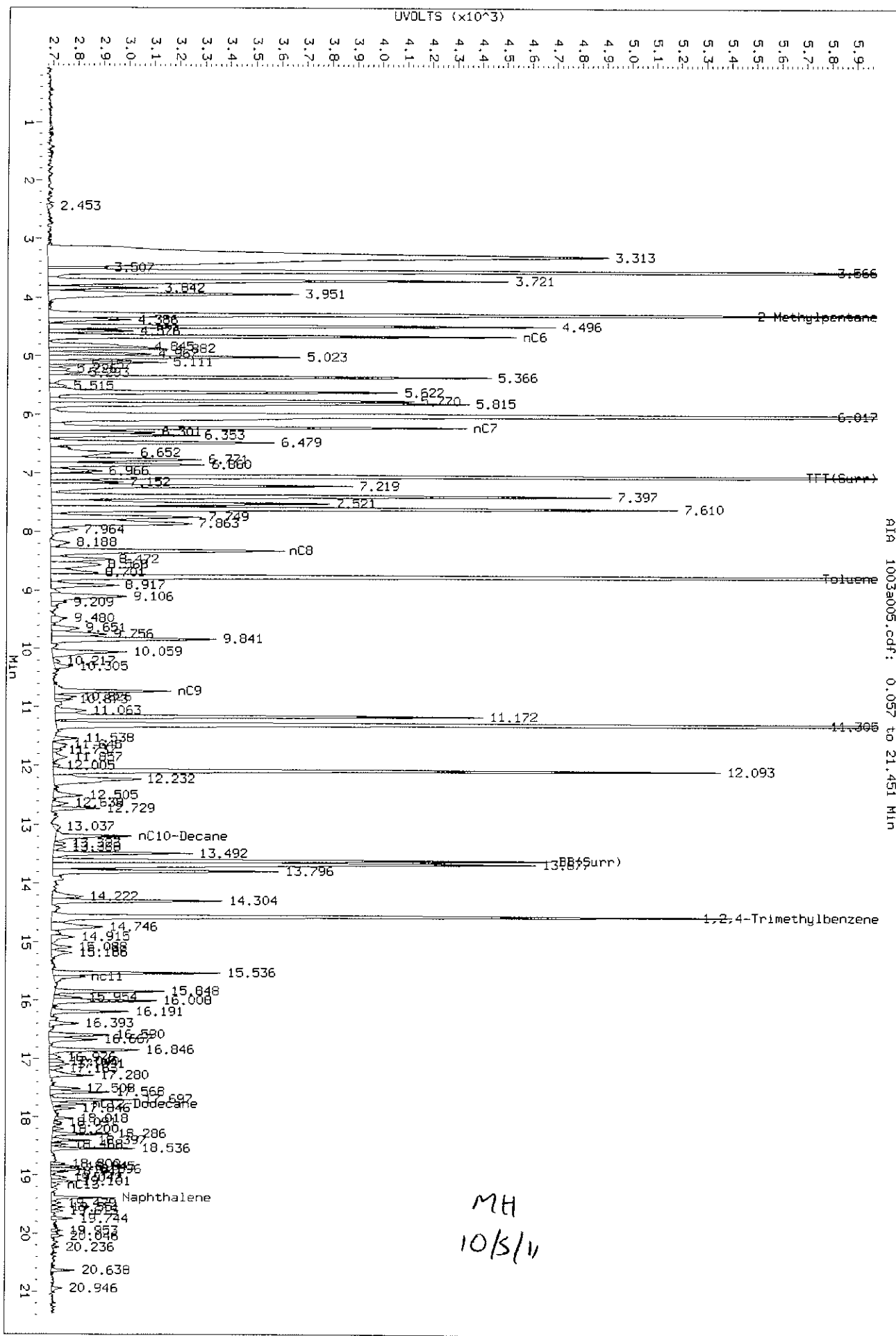
Column phase: RTX 502-2 PID

Instrument: pid2.i
Operator: HH
Column diameter: 0.18



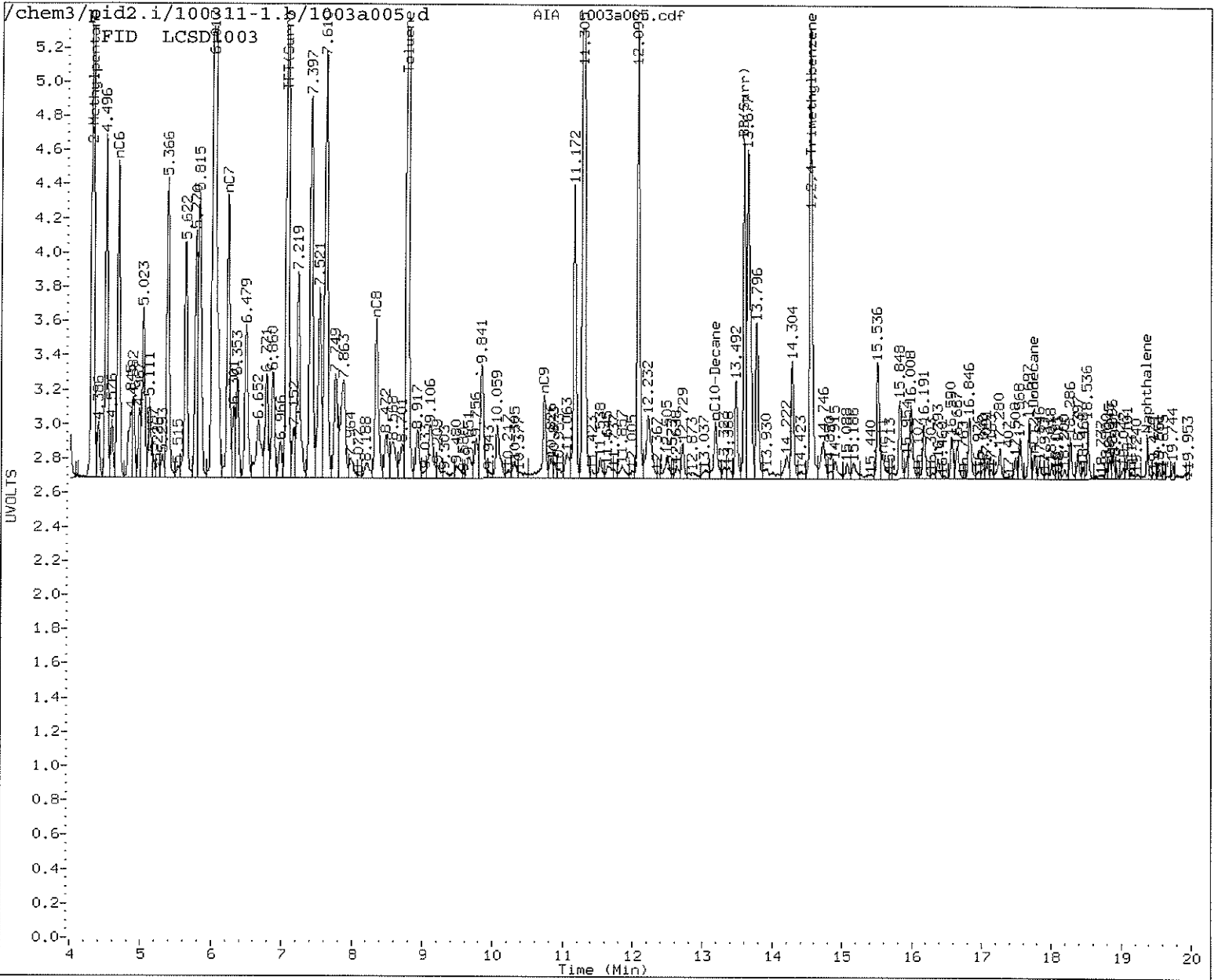
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Data File: /chem3/pid2.1/100311-1.b/1003a005.d/1003a005.cdf
Injection Date: 03-OCT-2011 07:59
Instrument: pid2.1
Client Sample ID:



MH
10/5/11

AIR 1003a005.cdf: 0.057 to 21.451 Min



MANUAL INTEGRATION

- Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: MH Date: 10/5/4

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021EMod

Page 1 of 1



Sample ID: LCS-100511

LAB CONTROL SAMPLE

Lab Sample ID: LCS-100511

LIMS ID: 11-20524

Matrix: Water

Data Release Authorized: YW

Reported: 10/06/11

QC Report No: TN16-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Event: NA

Date Sampled: NA

Date Received: NA

Date Analyzed LCS: 10/05/11 16:53

Purge Volume: 5.0 mL

LCSD: 10/05/11 17:21

Instrument/Analyst LCS: PID2/MH

Dilution Factor LCS: 1.0

LCSD: PID2/MH

LCSD: 1.0

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Benzene	24.5	25.0	98.0%	24.1	25.0	96.4%	1.6%
Toluene	24.0	25.0	96.0%	23.8	25.0	95.2%	0.8%
Ethylbenzene	24.7	25.0	98.8%	24.6	25.0	98.4%	0.4%
m,p-Xylene	46.1	50.0	92.2%	46.3	50.0	92.6%	0.4%
o-Xylene	23.9	25.0	95.6%	23.6	25.0	94.4%	1.3%

Reported in µg/L (ppb)

RPD calculated using sample concentrations per SW846.

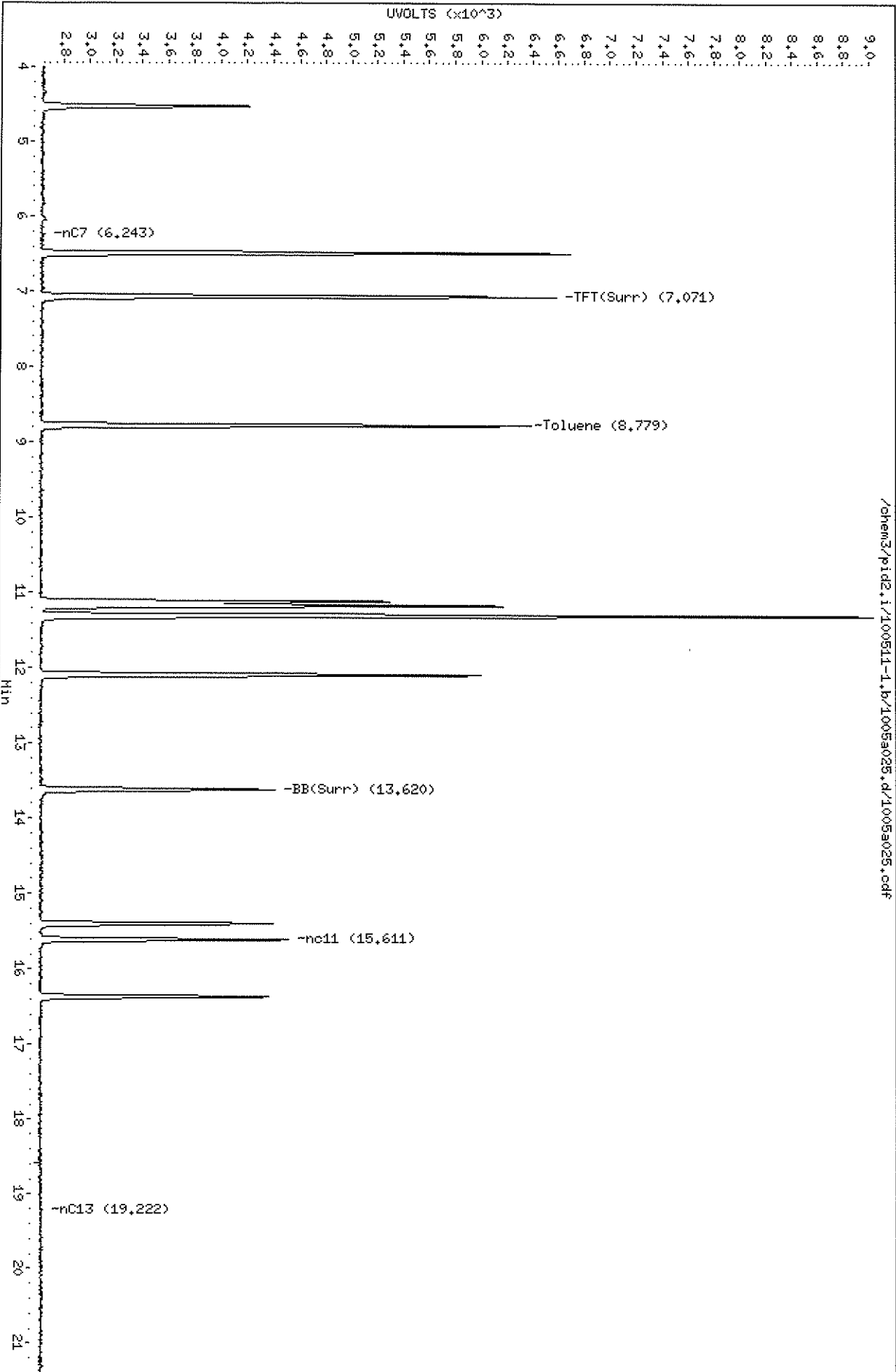
BETX Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	99.0%	98.6%
Bromobenzene	97.9%	97.8%

Data File: /chem3/pid2.i/100511-1.b/1005a025.d
Date: 05-OCT-2011 16:53
Client ID:
Sample Info: LCS1005

Column phase: RTX 502-2 FID

Instrument: pid2.i
Operator: HH
Column diameter: 0.18



Data File: /chem3/pid2.1/100511-2.b/1005a025.d
Date: 05-OCT-2011 16:53
Client ID:
Sample Info: LCS1005

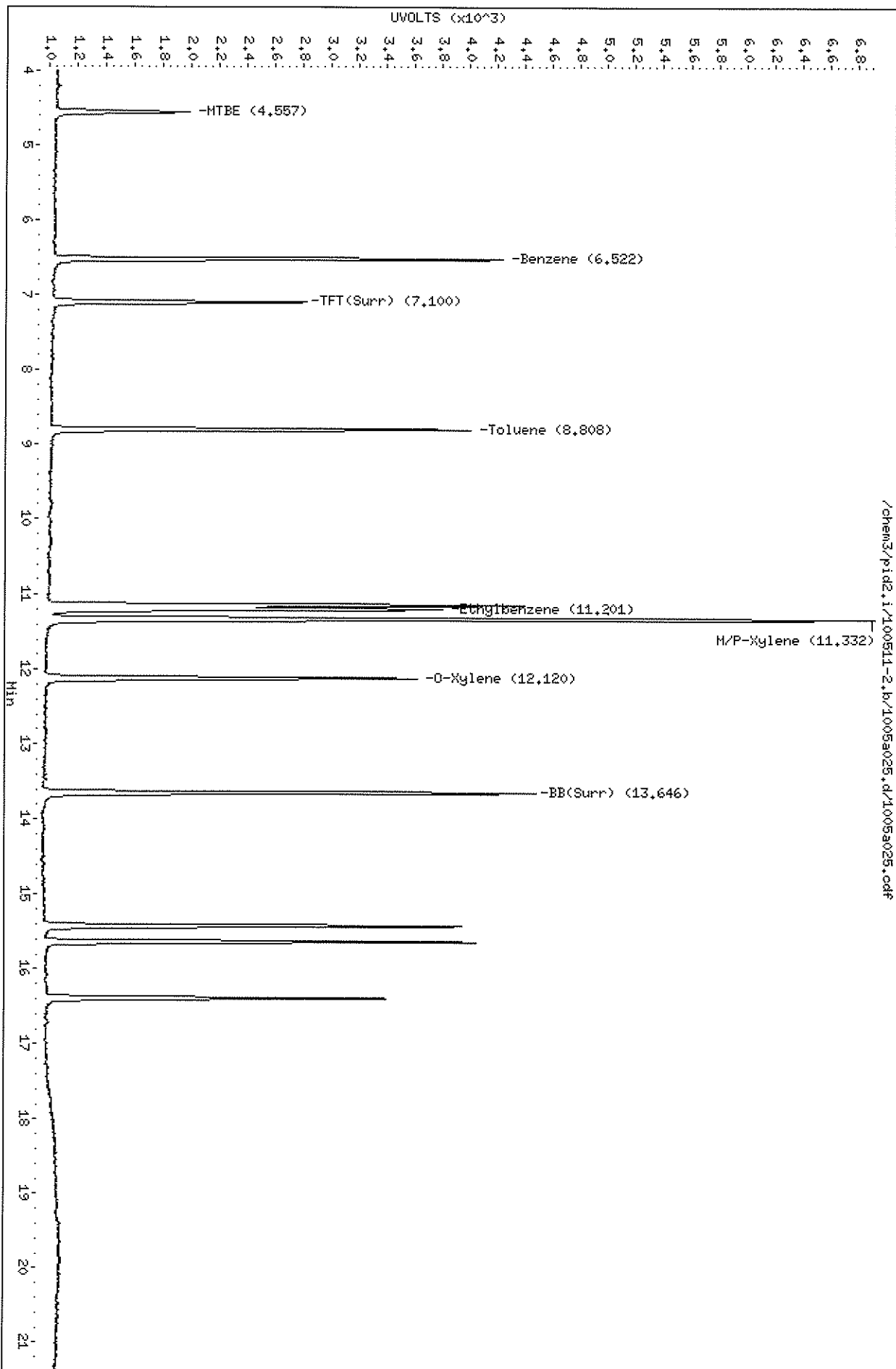
Instrument: pid2.1

Page 1

Column phase: RTX 502-2 PID

Operator: HH
Column diameter: 0.18

/chem3/pid2.1/100511-2.b/1005a025.d/1005a025.cdf

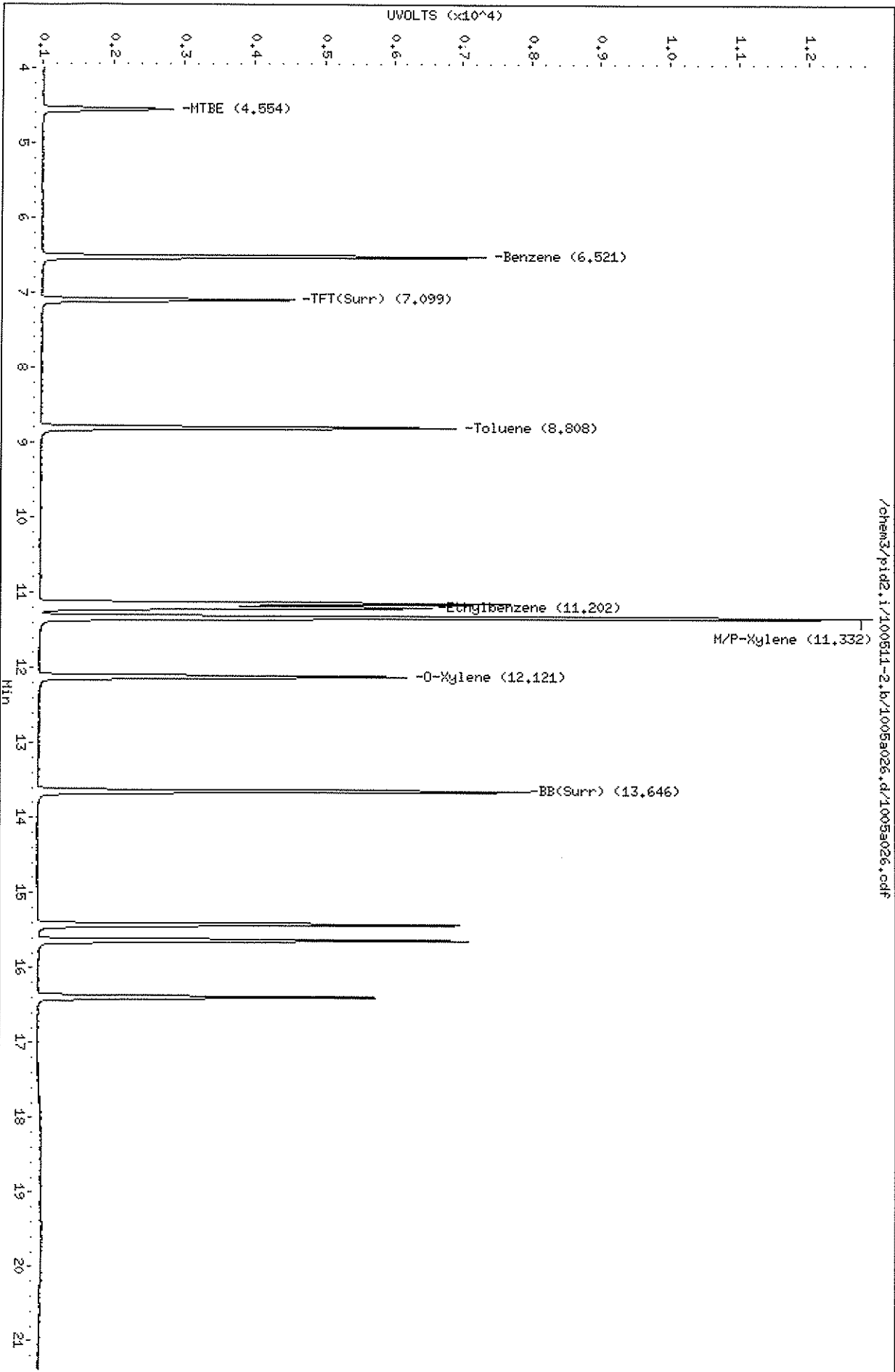


Data File: /chem3/pid2.i/100511-2.b/1005a026.d
Date: 05-OCT-2011 17:21
Client ID:
Sample Info: LCSD1005

Column phase: RTX 502-2 PID

/chem3/pid2.i/100511-2.b/1005a026.d/1005a026.cdf

Instrument: pid2.i
Operator: NH
Column diameter: 0.18



0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS


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Sample ID: METHOD BLANK

Lab Sample ID: TN16MB

LIMS ID: 11-20522

Matrix: Water

Data Release Authorized: 

Reported: 09/28/11

QC Report No: TN16-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Date Sampled: NA

Date Received: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
3010A	09/21/11	6010B	09/26/11	7440-38-2	Arsenic	0.05	0.05	U
3010A	09/21/11	6010B	09/26/11	7440-39-3	Barium	0.003	0.003	U
3010A	09/21/11	6010B	09/26/11	7440-43-9	Cadmium	0.002	0.002	U
3010A	09/21/11	6010B	09/26/11	7440-47-3	Chromium	0.005	0.005	U
3010A	09/21/11	6010B	09/26/11	7439-92-1	Lead	0.02	0.02	U
7470A	09/21/11	7470A	09/22/11	7439-97-6	Mercury	0.0001	0.0001	U
3010A	09/21/11	6010B	09/26/11	7782-49-2	Selenium	0.05	0.05	U
3010A	09/21/11	6010B	09/26/11	7440-22-4	Silver	0.003	0.003	U

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

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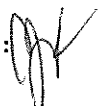
Sample ID: MW-1

SAMPLE

Lab Sample ID: TN16A

LIMS ID: 11-20522

Matrix: Water

Data Release Authorized: 

Reported: 09/28/11

QC Report No: TN16-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Date Sampled: 09/19/11

Date Received: 09/20/11

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
3010A	09/21/11	6010B	09/26/11	7440-38-2	Arsenic	0.05	0.05	U
3010A	09/21/11	6010B	09/26/11	7440-39-3	Barium	0.003	0.104	
3010A	09/21/11	6010B	09/26/11	7440-43-9	Cadmium	0.002	0.002	U
3010A	09/21/11	6010B	09/26/11	7440-47-3	Chromium	0.005	0.005	U
3010A	09/21/11	6010B	09/26/11	7439-92-1	Lead	0.02	0.02	U
7470A	09/21/11	7470A	09/22/11	7439-97-6	Mercury	0.0001	0.0001	U
3010A	09/21/11	6010B	09/26/11	7782-49-2	Selenium	0.05	0.05	U
3010A	09/21/11	6010B	09/26/11	7440-22-4	Silver	0.003	0.003	U

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

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Sample ID: MW-3

SAMPLE

Lab Sample ID: TN16B

LIMS ID: 11-20523

Matrix: Water

Data Release Authorized: 

Reported: 09/28/11

QC Report No: TN16-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Date Sampled: 09/19/11

Date Received: 09/20/11

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
3010A	09/21/11	6010B	09/26/11	7440-38-2	Arsenic	0.05	0.05	U
3010A	09/21/11	6010B	09/26/11	7440-39-3	Barium	0.003	0.083	
3010A	09/21/11	6010B	09/26/11	7440-43-9	Cadmium	0.002	0.002	U
3010A	09/21/11	6010B	09/26/11	7440-47-3	Chromium	0.005	0.008	
3010A	09/21/11	6010B	09/26/11	7439-92-1	Lead	0.02	0.02	U
7470A	09/21/11	7470A	09/22/11	7439-97-6	Mercury	0.0001	0.0001	U
3010A	09/21/11	6010B	09/26/11	7782-49-2	Selenium	0.05	0.05	U
3010A	09/21/11	6010B	09/26/11	7440-22-4	Silver	0.003	0.003	U

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

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Sample ID: MW-2

SAMPLE

Lab Sample ID: TN16C

LIMS ID: 11-20524

Matrix: Water

Data Release Authorized: 

Reported: 09/28/11

QC Report No: TN16-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Date Sampled: 09/19/11

Date Received: 09/20/11

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
3010A	09/21/11	6010B	09/26/11	7440-38-2	Arsenic	0.05	0.05	U
3010A	09/21/11	6010B	09/26/11	7440-39-3	Barium	0.003	0.056	
3010A	09/21/11	6010B	09/26/11	7440-43-9	Cadmium	0.002	0.002	U
3010A	09/21/11	6010B	09/26/11	7440-47-3	Chromium	0.005	0.005	U
3010A	09/21/11	6010B	09/26/11	7439-92-1	Lead	0.02	0.02	U
7470A	09/21/11	7470A	09/22/11	7439-97-6	Mercury	0.0001	0.0001	U
3010A	09/21/11	6010B	09/26/11	7782-49-2	Selenium	0.05	0.05	U
3010A	09/21/11	6010B	09/26/11	7440-22-4	Silver	0.003	0.003	U

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1


Sample ID: MW-100

SAMPLE

Lab Sample ID: TN16D

LIMS ID: 11-20525

Matrix: Water

Data Release Authorized: 

Reported: 09/28/11

QC Report No: TN16-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Date Sampled: 09/19/11

Date Received: 09/20/11

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
3010A	09/21/11	6010B	09/26/11	7440-38-2	Arsenic	0.05	0.05	U
3010A	09/21/11	6010B	09/26/11	7440-39-3	Barium	0.003	0.056	
3010A	09/21/11	6010B	09/26/11	7440-43-9	Cadmium	0.002	0.002	U
3010A	09/21/11	6010B	09/26/11	7440-47-3	Chromium	0.005	0.005	U
3010A	09/21/11	6010B	09/26/11	7439-92-1	Lead	0.02	0.02	U
7470A	09/21/11	7470A	09/22/11	7439-97-6	Mercury	0.0001	0.0001	U
3010A	09/21/11	6010B	09/26/11	7782-49-2	Selenium	0.05	0.05	U
3010A	09/21/11	6010B	09/26/11	7440-22-4	Silver	0.003	0.003	U

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

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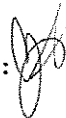
Sample ID: MW-5

SAMPLE

Lab Sample ID: TN16E

LIMS ID: 11-20526

Matrix: Water

Data Release Authorized: 

Reported: 09/28/11

QC Report No: TN16-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Date Sampled: 09/20/11

Date Received: 09/20/11

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
3010A	09/21/11	6010B	09/26/11	7440-38-2	Arsenic	0.05	0.05	U
3010A	09/21/11	6010B	09/26/11	7440-39-3	Barium	0.003	0.097	
3010A	09/21/11	6010B	09/26/11	7440-43-9	Cadmium	0.002	0.002	U
3010A	09/21/11	6010B	09/26/11	7440-47-3	Chromium	0.005	0.022	
3010A	09/21/11	6010B	09/26/11	7439-92-1	Lead	0.02	0.02	U
7470A	09/21/11	7470A	09/22/11	7439-97-6	Mercury	0.0001	0.0001	U
3010A	09/21/11	6010B	09/26/11	7782-49-2	Selenium	0.05	0.05	U
3010A	09/21/11	6010B	09/26/11	7440-22-4	Silver	0.003	0.003	U

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: MW-4

SAMPLE

Lab Sample ID: TN16F

LIMS ID: 11-20527

Matrix: Water

Data Release Authorized:

Reported: 09/28/11



QC Report No: TN16-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Date Sampled: 09/20/11

Date Received: 09/20/11

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
3010A	09/21/11	6010B	09/26/11	7440-38-2	Arsenic	0.05	0.05	U
3010A	09/21/11	6010B	09/26/11	7440-39-3	Barium	0.003	0.028	
3010A	09/21/11	6010B	09/26/11	7440-43-9	Cadmium	0.002	0.002	U
3010A	09/21/11	6010B	09/26/11	7440-47-3	Chromium	0.005	0.013	
3010A	09/21/11	6010B	09/26/11	7439-92-1	Lead	0.02	0.02	U
7470A	09/21/11	7470A	09/22/11	7439-97-6	Mercury	0.0001	0.0001	U
3010A	09/21/11	6010B	09/26/11	7782-49-2	Selenium	0.05	0.05	U
3010A	09/21/11	6010B	09/26/11	7440-22-4	Silver	0.003	0.003	U

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS


Page 1 of 1

Sample ID: MW-6
SAMPLE

Lab Sample ID: TN16G

LIMS ID: 11-20528

Matrix: Water

Data Release Authorized: 

Reported: 09/28/11

QC Report No: TN16-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Date Sampled: 09/20/11

Date Received: 09/20/11

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
3010A	09/21/11	6010B	09/26/11	7440-38-2	Arsenic	0.05	0.05	U
3010A	09/21/11	6010B	09/26/11	7440-39-3	Barium	0.003	0.071	
3010A	09/21/11	6010B	09/26/11	7440-43-9	Cadmium	0.002	0.002	U
3010A	09/21/11	6010B	09/26/11	7440-47-3	Chromium	0.005	0.014	
3010A	09/21/11	6010B	09/26/11	7439-92-1	Lead	0.02	0.02	U
7470A	09/21/11	7470A	09/22/11	7439-97-6	Mercury	0.0001	0.0001	U
3010A	09/21/11	6010B	09/26/11	7782-49-2	Selenium	0.05	0.05	U
3010A	09/21/11	6010B	09/26/11	7440-22-4	Silver	0.003	0.003	U

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1


Sample ID: MW-7

SAMPLE

Lab Sample ID: TN16H

LIMS ID: 11-20529

Matrix: Water

Data Release Authorized: 

Reported: 09/28/11

QC Report No: TN16-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Date Sampled: 09/20/11

Date Received: 09/20/11

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
3010A	09/21/11	6010B	09/26/11	7440-38-2	Arsenic	0.05	0.18	
3010A	09/21/11	6010B	09/26/11	7440-39-3	Barium	0.003	0.023	
3010A	09/21/11	6010B	09/26/11	7440-43-9	Cadmium	0.002	0.002	U
3010A	09/21/11	6010B	09/26/11	7440-47-3	Chromium	0.005	0.005	U
3010A	09/21/11	6010B	09/26/11	7439-92-1	Lead	0.02	0.02	U
7470A	09/21/11	7470A	09/22/11	7439-97-6	Mercury	0.0001	0.0001	U
3010A	09/21/11	6010B	09/26/11	7782-49-2	Selenium	0.05	0.05	U
3010A	09/21/11	6010B	09/26/11	7440-22-4	Silver	0.003	0.003	U

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS


Page 1 of 1

Sample ID: LAB CONTROL

Lab Sample ID: TN16LCS

LIMS ID: 11-20522

Matrix: Water

Data Release Authorized: 

Reported: 09/28/11

QC Report No: TN16-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Date Sampled: NA

Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Arsenic	6010B	1.99	2.00	99.5%	
Barium	6010B	1.97	2.00	98.5%	
Cadmium	6010B	0.505	0.500	101%	
Chromium	6010B	0.506	0.500	101%	
Lead	6010B	1.97	2.00	98.5%	
Mercury	7470A	0.0021	0.0020	105%	
Selenium	6010B	1.95	2.00	97.5%	
Silver	6010B	0.516	0.500	103%	

Reported in mg/L

N-Control limit not met

Control Limits: 80-120%

INORGANICS ANALYSIS DATA SHEET

DISSOLVED METALS

Sample ID: METHOD BLANK

Page 1 of 1


Lab Sample ID: TN16MB

QC Report No: TN16-Kennedy Jenks Consultants

LIMS ID: 11-20532

Project: Ecology Cornet Bay

Matrix: Water

Data Release Authorized: 

Date Sampled: NA

Reported: 09/28/11

Date Received: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
6010B	09/21/11	6010B	09/26/11	7440-38-2	Arsenic	0.05	0.05	U
6010B	09/21/11	6010B	09/26/11	7440-39-3	Barium	0.003	0.003	U
6010B	09/21/11	6010B	09/26/11	7440-43-9	Cadmium	0.002	0.002	U
6010B	09/21/11	6010B	09/26/11	7440-47-3	Chromium	0.005	0.005	U
6010B	09/21/11	6010B	09/26/11	7439-92-1	Lead	0.02	0.02	U
7470A	09/21/11	7470A	09/22/11	7439-97-6	Mercury	0.0001	0.0001	U
6010B	09/21/11	6010B	09/26/11	7782-49-2	Selenium	0.05	0.05	U
6010B	09/21/11	6010B	09/26/11	7440-22-4	Silver	0.003	0.003	U

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

DISSOLVED METALS

Page 1 of 1


Sample ID: MW-1

SAMPLE

Lab Sample ID: TN16K

LIMS ID: 11-20532

Matrix: Water

Data Release Authorized: 

Reported: 09/28/11

QC Report No: TN16-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Date Sampled: 09/19/11

Date Received: 09/20/11

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
6010B	09/21/11	6010B	09/26/11	7440-38-2	Arsenic	0.05	0.05	U
6010B	09/21/11	6010B	09/26/11	7440-39-3	Barium	0.003	0.103	
6010B	09/21/11	6010B	09/26/11	7440-43-9	Cadmium	0.002	0.002	U
6010B	09/21/11	6010B	09/26/11	7440-47-3	Chromium	0.005	0.005	U
6010B	09/21/11	6010B	09/26/11	7439-92-1	Lead	0.02	0.02	U
7470A	09/21/11	7470A	09/22/11	7439-97-6	Mercury	0.0001	0.0001	U
6010B	09/21/11	6010B	09/26/11	7782-49-2	Selenium	0.05	0.07	
6010B	09/21/11	6010B	09/26/11	7440-22-4	Silver	0.003	0.003	U

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

DISSOLVED METALS

Page 1 of 1


Sample ID: MW-3

SAMPLE

Lab Sample ID: TN16L

LIMS ID: 11-20533

Matrix: Water

Data Release Authorized: 

Reported: 09/28/11

QC Report No: TN16-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Date Sampled: 09/19/11

Date Received: 09/20/11

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
6010B	09/21/11	6010B	09/26/11	7440-38-2	Arsenic	0.05	0.05	U
6010B	09/21/11	6010B	09/26/11	7440-39-3	Barium	0.003	0.071	
6010B	09/21/11	6010B	09/26/11	7440-43-9	Cadmium	0.002	0.002	U
6010B	09/21/11	6010B	09/26/11	7440-47-3	Chromium	0.005	0.005	U
6010B	09/21/11	6010B	09/26/11	7439-92-1	Lead	0.02	0.02	U
7470A	09/21/11	7470A	09/22/11	7439-97-6	Mercury	0.0001	0.0001	U
6010B	09/21/11	6010B	09/26/11	7782-49-2	Selenium	0.05	0.05	U
6010B	09/21/11	6010B	09/26/11	7440-22-4	Silver	0.003	0.003	U

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

DISSOLVED METALS

Page 1 of 1


Sample ID: MW-2

SAMPLE

Lab Sample ID: TN16M

LIMS ID: 11-20534

Matrix: Water

Data Release Authorized 

Reported: 09/28/11

QC Report No: TN16-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Date Sampled: 09/19/11

Date Received: 09/20/11

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
6010B	09/21/11	6010B	09/26/11	7440-38-2	Arsenic	0.05	0.05	U
6010B	09/21/11	6010B	09/26/11	7440-39-3	Barium	0.003	0.056	
6010B	09/21/11	6010B	09/26/11	7440-43-9	Cadmium	0.002	0.002	U
6010B	09/21/11	6010B	09/26/11	7440-47-3	Chromium	0.005	0.005	U
6010B	09/21/11	6010B	09/26/11	7439-92-1	Lead	0.02	0.02	U
7470A	09/21/11	7470A	09/22/11	7439-97-6	Mercury	0.0001	0.0001	U
6010B	09/21/11	6010B	09/26/11	7782-49-2	Selenium	0.05	0.05	U
6010B	09/21/11	6010B	09/26/11	7440-22-4	Silver	0.003	0.003	U

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

DISSOLVED METALS

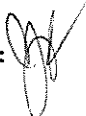
Page 1 of 1

Sample ID: MW-100
SAMPLE

Lab Sample ID: TN16N

LIMS ID: 11-20535

Matrix: Water

Data Release Authorized: 

Reported: 09/28/11

QC Report No: TN16-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Date Sampled: 09/19/11

Date Received: 09/20/11

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
6010B	09/21/11	6010B	09/26/11	7440-38-2	Arsenic	0.05	0.05	U
6010B	09/21/11	6010B	09/26/11	7440-39-3	Barium	0.003	0.056	
6010B	09/21/11	6010B	09/26/11	7440-43-9	Cadmium	0.002	0.002	U
6010B	09/21/11	6010B	09/26/11	7440-47-3	Chromium	0.005	0.005	U
6010B	09/21/11	6010B	09/26/11	7439-92-1	Lead	0.02	0.02	U
7470A	09/21/11	7470A	09/22/11	7439-97-6	Mercury	0.0001	0.0001	U
6010B	09/21/11	6010B	09/26/11	7782-49-2	Selenium	0.05	0.05	U
6010B	09/21/11	6010B	09/26/11	7440-22-4	Silver	0.003	0.003	U

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

DISSOLVED METALS

Page 1 of 1

Sample ID: MW-5

SAMPLE

Lab Sample ID: TN160

LIMS ID: 11-20536

Matrix: Water

Data Release Authorized: 

Reported: 09/28/11

QC Report No: TN16-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Date Sampled: 09/20/11

Date Received: 09/20/11

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
6010B	09/21/11	6010B	09/26/11	7440-38-2	Arsenic	0.05	0.05	U
6010B	09/21/11	6010B	09/26/11	7440-39-3	Barium	0.003	0.057	
6010B	09/21/11	6010B	09/26/11	7440-43-9	Cadmium	0.002	0.002	U
6010B	09/21/11	6010B	09/26/11	7440-47-3	Chromium	0.005	0.006	
6010B	09/21/11	6010B	09/26/11	7439-92-1	Lead	0.02	0.02	U
7470A	09/21/11	7470A	09/22/11	7439-97-6	Mercury	0.0001	0.0001	U
6010B	09/21/11	6010B	09/26/11	7782-49-2	Selenium	0.05	0.05	U
6010B	09/21/11	6010B	09/26/11	7440-22-4	Silver	0.003	0.003	U

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

DISSOLVED METALS

Page 1 of 1


Sample ID: MW-4

SAMPLE

Lab Sample ID: TN16P

LIMS ID: 11-20537

Matrix: Water

Data Release Authorized: 

Reported: 09/28/11

QC Report No: TN16-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Date Sampled: 09/20/11

Date Received: 09/20/11

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
6010B	09/21/11	6010B	09/26/11	7440-38-2	Arsenic	0.05	0.05	U
6010B	09/21/11	6010B	09/26/11	7440-39-3	Barium	0.003	0.029	
6010B	09/21/11	6010B	09/26/11	7440-43-9	Cadmium	0.002	0.002	U
6010B	09/21/11	6010B	09/26/11	7440-47-3	Chromium	0.005	0.009	
6010B	09/21/11	6010B	09/26/11	7439-92-1	Lead	0.02	0.02	U
7470A	09/21/11	7470A	09/22/11	7439-97-6	Mercury	0.0001	0.0001	U
6010B	09/21/11	6010B	09/26/11	7782-49-2	Selenium	0.05	0.06	
6010B	09/21/11	6010B	09/26/11	7440-22-4	Silver	0.003	0.003	U

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

DISSOLVED METALS


Page 1 of 1

Sample ID: MW-6
SAMPLE

Lab Sample ID: TN16Q

LIMS ID: 11-20538

Matrix: Water

Data Release Authorized: 

Reported: 09/28/11

QC Report No: TN16-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Date Sampled: 09/20/11

Date Received: 09/20/11

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
6010B	09/21/11	6010B	09/26/11	7440-38-2	Arsenic	0.05	0.05	U
6010B	09/21/11	6010B	09/26/11	7440-39-3	Barium	0.003	0.053	
6010B	09/21/11	6010B	09/26/11	7440-43-9	Cadmium	0.002	0.002	U
6010B	09/21/11	6010B	09/26/11	7440-47-3	Chromium	0.005	0.005	U
6010B	09/21/11	6010B	09/26/11	7439-92-1	Lead	0.02	0.02	U
7470A	09/21/11	7470A	09/22/11	7439-97-6	Mercury	0.0001	0.0001	U
6010B	09/21/11	6010B	09/26/11	7782-49-2	Selenium	0.05	0.05	U
6010B	09/21/11	6010B	09/26/11	7440-22-4	Silver	0.003	0.003	U

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

DISSOLVED METALS


Page 1 of 1

Sample ID: MW-7
SAMPLE

Lab Sample ID: TN16R

LIMS ID: 11-20539

Matrix: Water

Data Release Authorized 

Reported: 09/28/11

QC Report No: TN16-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Date Sampled: 09/20/11

Date Received: 09/20/11

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
6010B	09/21/11	6010B	09/26/11	7440-38-2	Arsenic	0.05	0.17	
6010B	09/21/11	6010B	09/26/11	7440-39-3	Barium	0.003	0.018	
6010B	09/21/11	6010B	09/26/11	7440-43-9	Cadmium	0.002	0.002	U
6010B	09/21/11	6010B	09/26/11	7440-47-3	Chromium	0.005	0.005	U
6010B	09/21/11	6010B	09/26/11	7439-92-1	Lead	0.02	0.02	U
7470A	09/21/11	7470A	09/22/11	7439-97-6	Mercury	0.0001	0.0001	U
6010B	09/21/11	6010B	09/26/11	7782-49-2	Selenium	0.05	0.05	U
6010B	09/21/11	6010B	09/26/11	7440-22-4	Silver	0.003	0.003	U

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

DISSOLVED METALS


Page 1 of 1

Sample ID: LAB CONTROL

Lab Sample ID: TN16LCS

LIMS ID: 11-20532

Matrix: Water

Data Release Authorized: 

Reported: 09/28/11

QC Report No: TN16-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Date Sampled: NA

Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Arsenic	6010B	1.95	2.00	97.5%	
Barium	6010B	1.95	2.00	97.5%	
Cadmium	6010B	0.504	0.500	101%	
Chromium	6010B	0.495	0.500	99.0%	
Lead	6010B	1.91	2.00	95.5%	
Mercury	7470A	0.0021	0.0020	105%	
Selenium	6010B	2.09	2.00	104%	
Silver	6010B	0.482	0.500	96.4%	

Reported in mg/L

N-Control limit not met

Control Limits: 80-120%



Analytical Resources, Incorporated
Analytical Chemists and Consultants

2 November 2011

Dean Malte
Kennedy Jenks Consultants
32001 32nd Ave S., Suite 100
Federal Way, WA 98001

RE: Client Project: Ecology Cornet Bay
ARI Job No: TT34

Dear Dean:

Please find enclosed the original Chain-of-Custody (COC) records and the final results for the samples from the project referenced above. Three water samples were received on October 24, 2011. The samples were analyzed for nitrate, sulfate, methane and dissolved metals as requested.

It was noted upon sample receipt that the holding times had expired for nitrate. The samples were analyzed as quickly as possible.


A matrix spike (MS) was prepared and analyzed for sulfate in conjunction with sample MW-7. The percent recovery was low following the initial analysis of the MS. Since the percent recovery for sulfate was within acceptable QC limits for the corresponding SRM, it was concluded that the sample matrix was the cause of the low MS recovery. No corrective actions were taken.

There were no further analytical complications noted.

An electronic copy of this report and all supporting raw data will be kept on file at ARI. Should you have any questions regarding these results, please feel free to call me at any time.

Sincerely,

ANALYTICAL RESOURCES, INC.


Mark D. Harris
Project Manager
206/695-6210
markh@arilabs.com

Enclosures

cc: file TT34

MDH/mdh

RECEIVED
NOV -4 2011
K/J Federal Way



Cooler Receipt Form

ARI Client: Kennedy Jenks
 COC No(s): _____ NA
 Assigned ARI Job No: TT 34

Project Name: Ecology Cornet Bay
 Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____
 Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler? YES NO
 Were custody papers included with the cooler? YES NO
 Were custody papers properly filled out (ink, signed, etc.) YES NO
 Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)..... 7.2
 If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: 90877952

Cooler Accepted by: JU Date: 10/24/11 Time: 10:30

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO
 What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____
 Was sufficient ice used (if appropriate)? NA YES NO
 Were all bottles sealed in individual plastic bags? YES NO
 Did all bottles arrive in good condition (unbroken)? YES NO
 Were all bottle labels complete and legible? YES NO
 Did the number of containers listed on COC match with the number of containers received? YES NO
 Did all bottle labels and tags agree with custody papers? YES NO
 Were all bottles used correct for the requested analyses? YES NO
 Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)... NA YES NO
 Were all VOC vials free of air bubbles? NA YES NO
 Was sufficient amount of sample sent in each bottle? YES NO
 Date VOC Trip Blank was made at ARI..... NA 10-13-11
 Was Sample Split by ARI: NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: JU Date: 10-24-11 Time: 14:17

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

Trip blank 11/29/11

By: JU Date: 10-24-11

			Small → "sm"
			Peabubbles → "pb"
			Large → "lg"
			Headspace → "hs"



Cooler Temperature Compliance Form

Cooler#: <u>1</u>		Temperature(°C): <u>7.2</u>				
Sample ID	Bottle Count	Bottle Type				
<i>Samples recieved greater than 6°C</i>						

Cooler#:		Temperature(°C):	
Sample ID	Bottle Count	Bottle Type	

Cooler#:		Temperature(°C):	
Sample ID	Bottle Count	Bottle Type	

Cooler#:		Temperature(°C):	
Sample ID	Bottle Count	Bottle Type	

Completed by: TS Date: 10-24-11 Time: 1420



Data Reporting Qualifiers

Effective 2/14/2011

Inorganic Data

- U Indicates that the target analyte was not detected at the reported concentration
- * Duplicate RPD is not within established control limits
- B Reported value is less than the CRDL but \geq the Reporting Limit
- N Matrix Spike recovery not within established control limits
- NA Not Applicable, analyte not spiked
- H The natural concentration of the spiked element is so much greater than the concentration spiked that an accurate determination of spike recovery is not possible
- L Analyte concentration is ≤ 5 times the Reporting Limit and the replicate control limit defaults to ± 1 RL instead of the normal 20% RPD

Organic Data

- U Indicates that the target analyte was not detected at the reported concentration
- * Flagged value is not within established control limits
- B Analyte detected in an associated Method Blank at a concentration greater than one-half of ARI's Reporting Limit or 5% of the regulatory limit or 5% of the analyte concentration in the sample.
- J Estimated concentration when the value is less than ARI's established reporting limits
- D The spiked compound was not detected due to sample extract dilution
- E Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.
- Q Indicates a detected analyte with an initial or continuing calibration that does not meet established acceptance criteria ($< 20\%$ RSD, $< 20\%$ Drift or minimum RRF).



- S Indicates an analyte response that has saturated the detector. The calculated concentration is not valid; a dilution is required to obtain valid quantification of the analyte
- NA The flagged analyte was not analyzed for
- NR Spiked compound recovery is not reported due to chromatographic interference
- NS The flagged analyte was not spiked into the sample
- M Estimated value for an analyte detected and confirmed by an analyst but with low spectral match parameters. This flag is used only for GC-MS analyses
- M2 The sample contains PCB congeners that do not match any standard Aroclor pattern. The PCBs are identified and quantified as the Aroclor whose pattern most closely matches that of the sample. The reported value is an estimate.
- N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification"
- Y The analyte is not detected at or above the reported concentration. The reporting limit is raised due to chromatographic interference. The Y flag is equivalent to the U flag with a raised reporting limit.
- EMPC Estimated Maximum Possible Concentration (EMPC) defined in EPA Statement of Work DLM02.2 as a value "calculated for 2,3,7,8-substituted isomers for which the quantitation and /or confirmation ion(s) has signal to noise in excess of 2.5, but does not meet identification criteria" **(Dioxin/Furan analysis only)**
- C The analyte was positively identified on only one of two chromatographic columns. Chromatographic interference prevented a positive identification on the second column
- P The analyte was detected on both chromatographic columns but the quantified values differ by $\geq 40\%$ RPD with no obvious chromatographic interference
- X Analyte signal includes interference from polychlorinated diphenyl ethers. **(Dioxin/Furan analysis only)**
- Z Analyte signal includes interference from the sample matrix or perfluorokerosene ions. **(Dioxin/Furan analysis only)**



Geotechnical Data

- A The total of all fines fractions. This flag is used to report total fines when only sieve analysis is requested and balances total grain size with sample weight.
- F Samples were frozen prior to particle size determination
- SM Sample matrix was not appropriate for the requested analysis. This normally refers to samples contaminated with an organic product that interferes with the sieving process and/or moisture content, porosity and saturation calculations
- SS Sample did not contain the proportion of "fines" required to perform the pipette portion of the grain size analysis
- W Weight of sample in some pipette aliquots was below the level required for accurate weighting

Sample ID Cross Reference Report



ARI Job No: TT34
Client: Kennedy Jenks Consultants
Project Event: N/A
Project Name: Cornet Bay Ecology

Sample ID	ARI Lab ID	ARI LIMS ID	Matrix	Sample Date/Time	VTSR
1. MW-2	TT34A	11-24357	Water	10/21/11 12:30	10/24/11 10:30
2. MW-4	TT34B	11-24358	Water	10/21/11 13:30	10/24/11 10:30
3. MW-7	TT34C	11-24359	Water	10/21/11 11:30	10/24/11 10:30
4. Trip Blanks	TT34D	11-24363	Water	10/21/11	10/24/11 10:30

Printed 10/24/11

ORGANICS ANALYSIS DATA SHEET

METHANE ETHANE ETHENE

Modified RSK 175

Page 1 of 1


Matrix: Water

QC Report No: TT34-Kennedy Jenks Consultants

Project: Cornet Bay Ecology

NA

Date Received: 10/24/11

Data Release Authorized: 

Reported: 10/31/11

ARI ID	Sample ID	Analysis Date	DL	Analyte	RL	Result
TT34A 11-24357	MW-2	10/28/11	1.0	Methane	0.7	7,320
TT34B 11-24358	MW-4	10/28/11	1.0	Methane	0.7	12,300
TT34C 11-24359	MW-7	10/28/11	1.0	Methane	0.7	2,570
TT34D 11-24363	Trip Blanks	10/28/11	1.0	Methane	0.7	< 0.7 U
102811MB	Method Blank	10/28/11	1.0	Methane	0.7	< 0.7 U

Reported in ug/L (ppb)

ORGANICS ANALYSIS DATA SHEET

METHANE ETHANE ETHENE

Modified RSK 175

Page 1 of 1

Matrix: Water

QC Report No: TT34-Kennedy Jenks Consultants

Project: Cornet Bay Ecology

NA

Date Received: 10/24/11

Data Release Authorized: *RB*

Reported: 10/31/11

ARI ID	Analysis Date	Analyte	Spike	Result	Recovery	RPD
102811LCS	10/28/11	Methane	654	588	89.9%	0.8%
102811LCSD				593	90.6%	

Reported in ug/L (ppb)



ORGANICS ANALYSIS DATA SHEET

METHANE ETHANE ETHENE

Modified RSK 175

Page 1 of 1

Matrix: Water

QC Report No: TT34-Kennedy Jenks Consultants

Project: Cornet Bay Ecology

NA

Date Received: 10/24/11

Data Release Authorized: *[Signature]*

Reported: 10/31/11

Analyte	Date	Spike Type	Sample	Spike	Spike Added	Recovery	RPD
ARI ID: TT34A		Client ID: MW-2					
Methane	10/28/11	MS	7,320	8,170	654	NA	6.2%
	10/28/11	MSD		8,690	654	NA	

Reported in ug/L (ppb)

NA-No recovery due to high concentration of analyte in original sample and/or calculated negative recovery.

RSK 175 WATER SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: TT34-Kennedy Jenks Consultants
Project: Cornet Bay Ecology

<u>ARI ID</u>	<u>Client ID</u>	<u>PRP</u>	<u>TOT OUT</u>
TT34A	MW-2	87.2%	0
TT34AMS	MW-2	86.4%	0
TT34AMSD	MW-2	85.9%	0
TT34B	MW-4	89.8%	0
TT34C	MW-7	91.3%	0
TT34D	Trip Blanks	93.2%	0
MB-102811	Method Blank	92.4%	0
LCS-102811	Lab Control	89.9%	0
LCSD-102811	Lab Control Dup	88.5%	0


LCS/MB LIMITS QC LIMITS

(PRP) = Propane (79-132) (72-122)

Log Number Range: 11-24357 to 11-24363

SAMPLE RESULTS-CONVENTIONALS
TT34-Kennedy Jenks Consultants



Matrix: Water
Data Release Authorized: 
Reported: 11/02/11

Project: Cornet Bay Ecology
Event: NA
Date Sampled: 10/21/11
Date Received: 10/24/11

Client ID: MW-2
ARI ID: 11-24357 TT34A


Analyte	Date Batch	Method	Units	RL	Sample
N-Nitrate	10/24/11	Calculated	mg-N/L	0.010	< 0.010 U
N-Nitrite	10/24/11 102411#1	EPA 353.2	mg-N/L	0.010	< 0.010 U
Nitrate + Nitrite	10/24/11 102411#1	EPA 353.2	mg-N/L	0.010	< 0.010 U
Sulfate	10/31/11 103111#1	EPA 375.2	mg/L	10.0	22.0

RL Analytical reporting limit

U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
TT34-Kennedy Jenks Consultants



Matrix: Water
Data Release Authorized: 
Reported: 11/02/11

Project: Cornet Bay Ecology
Event: NA
Date Sampled: 10/21/11
Date Received: 10/24/11


Client ID: MW-4
ARI ID: 11-24358 TT34B

Analyte	Date Batch	Method	Units	RL	Sample
N-Nitrate	10/24/11	Calculated	mg-N/L	0.020	< 0.020 U
N-Nitrite	10/24/11 102411#1	EPA 353.2	mg-N/L	0.020	< 0.020 U
Nitrate + Nitrite	10/24/11 102411#1	EPA 353.2	mg-N/L	0.020	< 0.020 U
Sulfate	10/31/11 103111#1	EPA 375.2	mg/L	10.0	41.3

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
TT34-Kennedy Jenks Consultants



Matrix: Water
Data Release Authorized: 
Reported: 11/02/11

Project: Cornet Bay Ecology
Event: NA
Date Sampled: 10/21/11
Date Received: 10/24/11

Client ID: MW-7
ARI ID: 11-24359 TT34C

Analyte	Date Batch	Method	Units	RL	Sample
N-Nitrate	10/24/11	Calculated	mg-N/L	0.010	< 0.010 U
N-Nitrite	10/24/11 102411#1	EPA 353.2	mg-N/L	0.010	< 0.010 U
Nitrate + Nitrite	10/24/11 102411#1	EPA 353.2	mg-N/L	0.010	< 0.010 U
Sulfate	10/31/11 103111#1	EPA 375.2	mg/L	10.0	18.8

RL Analytical reporting limit
U Undetected at reported detection limit

METHOD BLANK RESULTS-CONVENTIONALS
TT34-Kennedy Jenks Consultants



Matrix: Water
Data Release Authorized
Reported: 11/02/11

A handwritten signature in black ink, appearing to be 'M. J. Jenks', written over the 'Data Release Authorized' text.

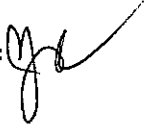
Project: Cornet Bay Ecology
Event: NA
Date Sampled: NA
Date Received: NA

Analyte	Method	Date	Units	Blank	ID
N-Nitrite	EPA 353.2	10/24/11	mg-N/L	< 0.010 U	FB
Nitrate + Nitrite	EPA 353.2	10/24/11	mg-N/L	< 0.010 U	FB
Sulfate	EPA 375.2	10/31/11	mg/L	< 2.0 U	FB

FB Filtration Blank

STANDARD REFERENCE RESULTS-CONVENTIONALS
TT34-Kennedy Jenks Consultants



Matrix: Water
Data Release Authorized: 
Reported: 11/02/11

Project: Cornet Bay Ecology
Event: NA
Date Sampled: NA
Date Received: NA

Analyte/SRM ID	Method	Date	Units	SRM	True Value	Recovery
N-Nitrite ERA #23034	EPA 353.2	10/24/11	mg-N/L	0.499	0.500	99.8%
Nitrate + Nitrite ERA #20034	EPA 353.2	10/24/11	mg-N/L	0.505	0.500	101.0%
Sulfate ERA #37065	EPA 375.2	10/31/11	mg/L	25.4	25.0	101.6%

REPLICATE RESULTS-CONVENTIONALS
TT34-Kennedy Jenks Consultants



Matrix: Water
Data Release Authorized:
Reported: 11/02/11

A handwritten signature in black ink, appearing to be 'AJ', is written over the 'Data Release Authorized' and 'Reported' lines.

Project: Cornet Bay Ecology
Event: NA
Date Sampled: 10/21/11
Date Received: 10/24/11

Analyte	Method	Date	Units	Sample	Replicate(s)	RPD/RSD
ARI ID: TT34A Client ID: MW-2						
N-Nitrite	EPA 353.2	10/24/11	mg-N/L	< 0.010	< 0.010	NA
Nitrate + Nitrite	EPA 353.2	10/24/11	mg-N/L	< 0.010	< 0.010	NA
Sulfate	EPA 375.2	10/31/11	mg/L	22.0	18.4	17.8%

MS/MSD RESULTS-CONVENTIONALS
TT34-Kennedy Jenks Consultants



Matrix: Water
Data Release Authorized:
Reported: 11/02/11

A handwritten signature in black ink, appearing to be 'MJD', is written over the 'Data Release Authorized' text.

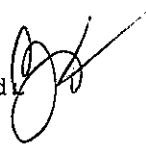
Project: Cornet Bay Ecology
Event: NA
Date Sampled: 10/21/11
Date Received: 10/24/11

Analyte	Method	Date	Units	Sample	Spike	Spike Added	Recovery
ARI ID: TT34A Client ID: MW-2							
N-Nitrite	EPA 353.2	10/24/11	mg-N/L < 0.010	0.503	0.500	100.6%	
Nitrate + Nitrite	EPA 353.2	10/24/11	mg-N/L < 0.010	0.492	0.500	98.4%	
Sulfate	EPA 375.2	10/31/11	mg/L	22.0	31.0	20.0	45.0%

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: MW-2
SAMPLE

Lab Sample ID: TT34A
LIMS ID: 11-24357
Matrix: Water
Data Release Authorized
Reported: 10/27/11



QC Report No: TT34-Kennedy Jenks Consultants
Project: Cornet Bay Ecology


Date Sampled: 10/21/11
Date Received: 10/24/11

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
6010B	10/25/11	6010B	10/26/11	7439-89-6	Iron	0.05	17.2	
6010B	10/25/11	6010B	10/26/11	7439-96-5	Manganese	0.001	2.51	

U-Analyte undetected at given RL
RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: MW-2
DUPLICATE

Lab Sample ID: TT34A
LIMS ID: 11-24357
Matrix: Water
Data Release Authorized: 
Reported: 10/27/11

QC Report No: TT34-Kennedy Jenks Consultants
Project: Cornet Bay Ecology

Date Sampled: 10/21/11
Date Received: 10/24/11

MATRIX DUPLICATE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Duplicate	RPD	Control Limit	Q
Iron	6010B	17.2	17.3	0.6%	+/- 20%	
Manganese	6010B	2.51	2.52	0.4%	+/- 20%	

Reported in mg/L

*-Control Limit Not Met

L-RPD Invalid, Limit = Detection Limit

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: MW-2
MATRIX SPIKE

Lab Sample ID: TT34A
LIMS ID: 11-24357
Matrix: Water
Data Release Authorized
Reported: 10/27/11

QC Report No: TT34-Kennedy Jenks Consultants
Project: Cornet Bay Ecology

Date Sampled: 10/21/11
Date Received: 10/24/11



MATRIX SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Spike	Spike Added	% Recovery	Q
Iron	6010B	17.2	18.8	2.00	80.0%	H
Manganese	6010B	2.51	2.84	0.500	66.0%	H


Reported in mg/L

N-Control Limit Not Met
H-% Recovery Not Applicable, Sample Concentration Too High
NA-Not Applicable, Analyte Not Spiked

Percent Recovery Limits: 75-125%

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: MW-4
SAMPLE

Lab Sample ID: TT34B
LIMS ID: 11-24358
Matrix: Water
Data Release Authorized: 
Reported: 10/27/11

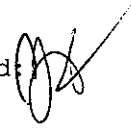
QC Report No: TT34-Kennedy Jenks Consultants
Project: Cornet Bay Ecology
Date Sampled: 10/21/11
Date Received: 10/24/11

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
6010B	10/25/11	6010B	10/26/11	7439-89-6	Iron	0.05	0.07	
6010B	10/25/11	6010B	10/26/11	7439-96-5	Manganese	0.001	0.042	

U-Analyte undetected at given RL
RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
 Page 1 of 1

Sample ID: MW-7
SAMPLE

Lab Sample ID: TT34C
 LIMS ID: 11-24359
 Matrix: Water
 Data Release Authorized: 
 Reported: 10/27/11

QC Report No: TT34-Kennedy Jenks Consultants
 Project: Cornet Bay Ecology

Date Sampled: 10/21/11
 Date Received: 10/24/11

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
6010B	10/25/11	6010B	10/26/11	7439-89-6	Iron	0.05	12.2	
6010B	10/25/11	6010B	10/26/11	7439-96-5	Manganese	0.001	2.57	

U-Analyte undetected at given RL
 RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: METHOD BLANK


Lab Sample ID: TT34MB

QC Report No: TT34-Kennedy Jenks Consultants

LIMS ID: 11-24358

Project: Cornet Bay Ecology

Matrix: Water

Data Release Authorized: 

Date Sampled: NA

Reported: 10/27/11


Date Received: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
6010B	10/25/11	6010B	10/26/11	7439-89-6	Iron	0.05	0.05	U
6010B	10/25/11	6010B	10/26/11	7439-96-5	Manganese	0.001	0.001	U

U-Analyte undetected at given RL
RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: LAB CONTROL

Lab Sample ID: TT34LCS
LIMS ID: 11-24358
Matrix: Water
Data Release Authorized: 
Reported: 10/27/11

QC Report No: TT34-Kennedy Jenks Consultants
Project: Cornet Bay Ecology
Date Sampled: NA
Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Iron	6010B	1.98	2.00	99.0%	
Manganese	6010B	0.467	0.500	93.4%	

Reported in mg/L

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



Analytical Resources, Incorporated
Analytical Chemists and Consultants

1 November 2011

Dean Malte
Kennedy Jenks Consultants
32001 32nd Ave S., Suite 100
Federal Way, WA 98001

RE: Client Project: Ecology Cornet Bay
ARI Job No: TT35

Dear Dean:


Please find enclosed the original Chain-of-Custody (COC) records and the final results for the samples from the project referenced above. One water sample and one trip blank were received on October 24, 2011. The samples were analyzed for BETX/NWTPH-G, Acid/Silica Cleaned NWTPH-Dx and total metals as requested.

There were no analytical complications noted.

An electronic copy of this report and all supporting raw data will be kept on file at ARI. Should you have any questions regarding these results, please feel free to call me at any time.

Sincerely,

ANALYTICAL RESOURCES, INC.


Mark D. Harris
Project Manager
206/695-6210
markh@arilabs.com

Enclosures

cc: file TT35

MDH/mdh

RECEIVED
NOV -3 2011
K/J Federal Way



Cooler Receipt Form

ARI Client: Kennedy Jenks

Project Name: Ecology Cornet Bay

COC No(s): _____ (NA)

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: TT35

Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)..... 7.2

If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: 90877952

Cooler Accepted by: JU Date: 10/24/11 Time: 10:30

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

Were all bottles sealed in individual plastic bags? YES NO

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI..... NA 10/13/11

Was Sample Split by ARI : NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: AV Date: 10/24/11 Time: 1355

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

TB = 1SM

By: AV Date: 10/24/11

			Small → "sm"
			Peabubbles → "pb"
			Large → "lg"
			Headspace → "hs"



Cooler Temperature Compliance Form

TT35

Cooler#:	Temperature(°C):	
Sample ID	Bottle Count	Bottle Type
All samples arrived above 6°C.		

Cooler#:	Temperature(°C):	
Sample ID	Bottle Count	Bottle Type

Cooler#:	Temperature(°C):	
Sample ID	Bottle Count	Bottle Type

Cooler#:	Temperature(°C):	
Sample ID	Bottle Count	Bottle Type

Completed by: AV Date: 10/24/11 Time: 1400

Sample ID Cross Reference Report



ARI Job No: TT35
Client: Kennedy Jenks Consultants
Project Event: N/A
Project Name: Ecology Cornet Bay

Sample ID	ARI Lab ID	ARI LIMS ID	Matrix	Sample Date/Time	VTSR
1. DC-10-21-11	TT35A	11-24360	Water	10/21/11 14:00	10/24/11 10:30
2. Trip Blanks	TT35B	11-24361	Water	10/21/11	10/24/11 10:30

Printed 10/24/11



Data Reporting Qualifiers

Effective 2/14/2011

Inorganic Data

- U Indicates that the target analyte was not detected at the reported concentration
- * Duplicate RPD is not within established control limits
- B Reported value is less than the CRDL but \geq the Reporting Limit
- N Matrix Spike recovery not within established control limits
- NA Not Applicable, analyte not spiked
- H The natural concentration of the spiked element is so much greater than the concentration spiked that an accurate determination of spike recovery is not possible
- L Analyte concentration is ≤ 5 times the Reporting Limit and the replicate control limit defaults to ± 1 RL instead of the normal 20% RPD

Organic Data

- U Indicates that the target analyte was not detected at the reported concentration
- * Flagged value is not within established control limits
- B Analyte detected in an associated Method Blank at a concentration greater than one-half of ARI's Reporting Limit or 5% of the regulatory limit or 5% of the analyte concentration in the sample.
- J Estimated concentration when the value is less than ARI's established reporting limits
- D The spiked compound was not detected due to sample extract dilution
- E Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.
- Q Indicates a detected analyte with an initial or continuing calibration that does not meet established acceptance criteria ($< 20\%$ RSD, $< 20\%$ Drift or minimum RRF).



- S Indicates an analyte response that has saturated the detector. The calculated concentration is not valid; a dilution is required to obtain valid quantification of the analyte
- NA The flagged analyte was not analyzed for
- NR Spiked compound recovery is not reported due to chromatographic interference
- NS The flagged analyte was not spiked into the sample
- M Estimated value for an analyte detected and confirmed by an analyst but with low spectral match parameters. This flag is used only for GC-MS analyses
- M2 The sample contains PCB congeners that do not match any standard Aroclor pattern. The PCBs are identified and quantified as the Aroclor whose pattern most closely matches that of the sample. The reported value is an estimate.
- N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification"
- Y The analyte is not detected at or above the reported concentration. The reporting limit is raised due to chromatographic interference. The Y flag is equivalent to the U flag with a raised reporting limit.
- EMPC Estimated Maximum Possible Concentration (EMPC) defined in EPA Statement of Work DLM02.2 as a value "calculated for 2,3,7,8-substituted isomers for which the quantitation and /or confirmation ion(s) has signal to noise in excess of 2.5, but does not meet identification criteria" **(Dioxin/Furan analysis only)**
- C The analyte was positively identified on only one of two chromatographic columns. Chromatographic interference prevented a positive identification on the second column
- P The analyte was detected on both chromatographic columns but the quantified values differ by $\geq 40\%$ RPD with no obvious chromatographic interference
- X Analyte signal includes interference from polychlorinated diphenyl ethers. **(Dioxin/Furan analysis only)**
- Z Analyte signal includes interference from the sample matrix or perfluorokerosene ions. **(Dioxin/Furan analysis only)**



Geotechnical Data

- A The total of all fines fractions. This flag is used to report total fines when only sieve analysis is requested and balances total grain size with sample weight.
- F Samples were frozen prior to particle size determination
- SM Sample matrix was not appropriate for the requested analysis. This normally refers to samples contaminated with an organic product that interferes with the sieving process and/or moisture content, porosity and saturation calculations
- SS Sample did not contain the proportion of "fines" required to perform the pipette portion of the grain size analysis
- W Weight of sample in some pipette aliquots was below the level required for accurate weighting

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021EMod
TPHG by Method NWTPHG
Page 1 of 1

Sample ID: MB-102611
METHOD BLANK

Lab Sample ID: MB-102611
LIMS ID: 11-24360
Matrix: Water
Data Release Authorized: *MMW*
Reported: 10/28/11

QC Report No: TT35-Kennedy Jenks Consultants
Project: Ecology Cornet Bay
Event: NA
Date Sampled: NA
Date Received: NA

Date Analyzed: 10/26/11 08:16
Instrument/Analyst: PID1/MH

Purge Volume: 5.0 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
71-43-2	Benzene	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
179601-23-1	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Gasoline Range Hydrocarbons	0.25	< 0.25 U	GAS ID ---
-----------------------------	------	----------	---------------

BETX Surrogate Recovery

Trifluorotoluene	94.0%
Bromobenzene	93.8%

Gasoline Surrogate Recovery

Trifluorotoluene	93.1%
Bromobenzene	94.5%

BETX values reported in µg/L (ppb)
Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.



ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: MB-102511

METHOD BLANK

Lab Sample ID: MB-102511

LIMS ID: 11-24361

Matrix: Water

Data Release Authorized: *mm*

Reported: 10/28/11

QC Report No: TT35-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Event: NA

Date Sampled: NA

Date Received: NA

Date Analyzed: 10/25/11 08:02

Instrument/Analyst: PID1/MH

Purge Volume: 5.0 mL

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
71-43-2	Benzene	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
179601-23-1	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Gasoline Range Hydrocarbons	0.25	< 0.25 U	GAS ID ---
-----------------------------	------	----------	---------------

BETX Surrogate Recovery

Trifluorotoluene	96.2%
Bromobenzene	94.5%

Gasoline Surrogate Recovery

Trifluorotoluene	94.9%
Bromobenzene	94.2%

BETX values reported in µg/L (ppb)
Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: DC-10-21-11

SAMPLE

Lab Sample ID: TT35A

LIMS ID: 11-24360

Matrix: Water

Data Release Authorized: *mmw*

Reported: 10/28/11

QC Report No: TT35-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Event: NA

Date Sampled: 10/21/11

Date Received: 10/24/11

Date Analyzed: 10/26/11 11:10

Instrument/Analyst: PID1/MH

Purge Volume: 5.0 mL

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
71-43-2	Benzene	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
179601-23-1	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Gasoline Range Hydrocarbons	0.25	0.32	GAS ID GRO
------------------------------------	-------------	-------------	-----------------------

BETX Surrogate Recovery

Trifluorotoluene	89.8%
Bromobenzene	86.5%

Gasoline Surrogate Recovery

Trifluorotoluene	89.5%
Bromobenzene	88.6%

BETX values reported in µg/L (ppb)
Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.



ORGANICS ANALYSIS DATA SHEET
 BETX by Method SW8021EMod
 TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: Trip Blanks
 SAMPLE

Lab Sample ID: TT35B
 LIMS ID: 11-24361
 Matrix: Water
 Data Release Authorized: *YWW*
 Reported: 10/28/11

QC Report No: TT35-Kennedy Jenks Consultants
 Project: Ecology Cornet Bay
 Event: NA
 Date Sampled: 10/21/11
 Date Received: 10/24/11

Date Analyzed: 10/25/11 09:48
 Instrument/Analyst: PID1/MH

Purge Volume: 5.0 mL
 Dilution Factor: 1.00

CAS Number	Analyte	RL	Result	GAS ID
71-43-2	Benzene	25	< 25 U	
108-88-3	Toluene	25	< 25 U	
100-41-4	Ethylbenzene	25	< 25 U	
179601-23-1	m,p-Xylene	50	< 50 U	
95-47-6	o-Xylene	25	< 25 U	
Gasoline Range Hydrocarbons		5.0	< 5.0 U	---
BETX Surrogate Recovery				
	Trifluorotoluene	99.4%		
	Bromobenzene	94.7%		
Gasoline Surrogate Recovery				
	Trifluorotoluene	97.0%		
	Bromobenzene	95.6%		

BETX values reported in µg/L (ppb)
 Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.
 Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET
 BETX by Method SW8021BMod
 Page 1 of 1

Sample ID: LCS-102611
 LAB CONTROL SAMPLE

Lab Sample ID: LCS-102611
 LIMS ID: 11-24360
 Matrix: Water
 Data Release Authorized: *mw*
 Reported: 10/28/11

QC Report No: TT35-Kennedy Jenks Consultants
 Project: Ecology Cornet Bay
 Event: NA
 Date Sampled: NA
 Date Received: NA

Date Analyzed LCS: 10/26/11 07:17
 LCSD: 10/26/11 07:47
 Instrument/Analyst LCS: PID1/MH
 LCSD: PID1/MH
 Purge Volume: 5.0 mL
 Dilution Factor LCS: 1.0
 LCSD: 1.0

Analyte	LCS	Spike	LCS	LCS	LCS	Spike	LCS	RPD
		Added-LCS	Recovery			Added-LCS	Recovery	
Benzene	3.41	3.70	92.2%	3.37	3.70	91.1%	1.2%	
Toluene	37.8	36.5	104%	37.4	36.5	102%	1.1%	
Ethylbenzene	10.8	10.7	101%	10.6	10.7	99.1%	1.9%	
m,p-Xylene	39.5	40.1	98.5%	39.0	40.1	97.3%	1.3%	
o-Xylene	18.2	18.1	101%	18.0	18.1	99.4%	1.1%	

Reported in µg/L (ppb)

RPD calculated using sample concentrations per SW846.

BETX Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	98.4%	100%
Bromobenzene	94.3%	96.9%



ORGANICS ANALYSIS DATA SHEET
 BETX by Method SW8021BMod
 Page 1 of 1

Sample ID: LCS-102511
 LAB CONTROL SAMPLE

Lab Sample ID: LCS-102511
 LIMS ID: 11-24361
 Matrix: Water
 Data Release Authorized: *MW*
 Reported: 10/28/11

QC Report No: TT35-Kennedy Jenks Consultants
 Project: Ecology Cornet Bay
 Event: NA
 Date Sampled: NA
 Date Received: NA

Date Analyzed LCS: 10/25/11 07:03
 LCSD: 10/25/11 07:32
 Instrument/Analyst LCS: PID1/MH
 LCSD: PID1/MH

Purge Volume: 5.0 mL
 Dilution Factor LCS: 1.0
 LCSD: 1.0

Analyte	LCS	LCS		LCSD	LCSD		RPD
		Spike Added-LCS	Recovery		Spike Added-LCSD	Recovery	
Benzene	3.23	3.70	87.3%	3.16	3.70	85.4%	2.2%
Toluene	36.0	36.5	98.6%	35.0	36.5	95.9%	2.8%
Ethylbenzene	10.3	10.7	96.3%	10.2	10.7	95.3%	1.0%
m,p-Xylene	37.7	40.1	94.0%	37.3	40.1	93.0%	1.1%
o-Xylene	17.2	18.1	95.0%	17.0	18.1	93.9%	1.2%

Reported in µg/L (ppb)

RPD calculated using sample concentrations per SW846.

BETX Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	93.9%	97.5%
Bromobenzene	89.3%	93.4%

ORGANICS ANALYSIS DATA SHEET
TPHG by Method NWTPHG
Page 1 of 1

Sample ID: LCS-102611
LAB CONTROL SAMPLE

Lab Sample ID: LCS-102611
LIMS ID: 11-24360
Matrix: Water
Data Release Authorized: *WWW*
Reported: 10/28/11

QC Report No: TT35-Kennedy Jenks Consultants
Project: Ecology Cornet Bay
Event: NA
Date Sampled: NA
Date Received: NA

Date Analyzed LCS: 10/26/11 07:17
LCSD: 10/26/11 07:47
Instrument/Analyst LCS: PID1/MH
LCSD: PID1/MH
Purge Volume: 5.0 mL
Dilution Factor LCS: 1.0
LCSD: 1.0

Analyte	LCS	Spike	LCS	LCS	LCS	Spike	LCS	RPD
		Added-LCS	Recovery			Added-LCS	Recovery	
Gasoline Range Hydrocarbons	1.06	1.00	106%	1.02	1.00	102%	3.8%	

Reported in mg/L (ppm)

RPD calculated using sample concentrations per SW846.

TPHG Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	98.8%	100%
Bromobenzene	95.7%	98.3%

ORGANICS ANALYSIS DATA SHEET
TPHG by Method NWTPHG
Page 1 of 1

Sample ID: LCS-102511
LAB CONTROL SAMPLE

Lab Sample ID: LCS-102511
LIMS ID: 11-24361
Matrix: Water
Data Release Authorized: *WWW*
Reported: 10/28/11

QC Report No: TT35-Kennedy Jenks Consultants
Project: Ecology Cornet Bay
Event: NA
Date Sampled: NA
Date Received: NA

Date Analyzed LCS: 10/25/11 07:03
LCSD: 10/25/11 07:32
Instrument/Analyst LCS: PID1/MH
LCSD: PID1/MH
Purge Volume: 5.0 mL
Dilution Factor LCS: 1.0
LCSD: 1.0

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Gasoline Range Hydrocarbons	1.00	1.00	100%	0.98	1.00	98.0%	2.0%

Reported in mg/L (ppm)

RPD calculated using sample concentrations per SW846.

TPHG Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	92.5%	96.9%
Bromobenzene	89.7%	93.4%

BETX WATER SURROGATE RECOVERY SUMMARY

ARI Job: TT35
Matrix: Water

QC Report No: TT35-Kennedy Jenks Consultants
Project: Ecology Cornet Bay
Event: NA

<u>Client ID</u>	<u>TFT</u>	<u>BBZ</u>	<u>TOT OUT</u>
MB-102611	94.0%	93.8%	0
LCS-102611	98.4%	94.3%	0
LCSD-102611	100%	96.9%	0
DC-10-21-11	89.8%	86.5%	0
MB-102511	96.2%	94.5%	0
LCS-102511	93.9%	89.3%	0
LCSD-102511	97.5%	93.4%	0
Trip Blanks	99.4%	94.7%	0

	LCS/MB LIMITS	QC LIMITS
(TFT) = Trifluorotoluene	(79-120)	(80-120)
(BBZ) = Bromobenzene	(79-120)	(80-120)

Log Number Range: 11-24360 to 11-24361

TPHG WATER SURROGATE RECOVERY SUMMARY

ARI Job: TT35
Matrix: Water

QC Report No: TT35-Kennedy Jenks Consultants
Project: Ecology Cornet Bay
Event: NA

<u>Client ID</u>	<u>TFT</u>	<u>BBZ</u>	<u>TOT OUT</u>
MB-102611	93.1%	94.5%	0
LCS-102611	98.8%	95.7%	0
LCSD-102611	100%	98.3%	0
DC-10-21-11	89.5%	88.6%	0
MB-102511	94.9%	94.2%	0
LCS-102511	92.5%	89.7%	0
LCSD-102511	96.9%	93.4%	0
Trip Blanks	97.0%	95.6%	0

	<u>LCS/MB LIMITS</u>	<u>QC LIMITS</u>
(TFT) = Trifluorotoluene	(80-120)	(80-120)
(BBZ) = Bromobenzene	(80-120)	(80-120)

Log Number Range: 11-24360 to 11-24361

Data File: /chem3/pid1.i/vpoc1025-1.b/1025a004.d

Date: 25-OCT-2011 07:03

Client ID:

Sample Info: LC61025

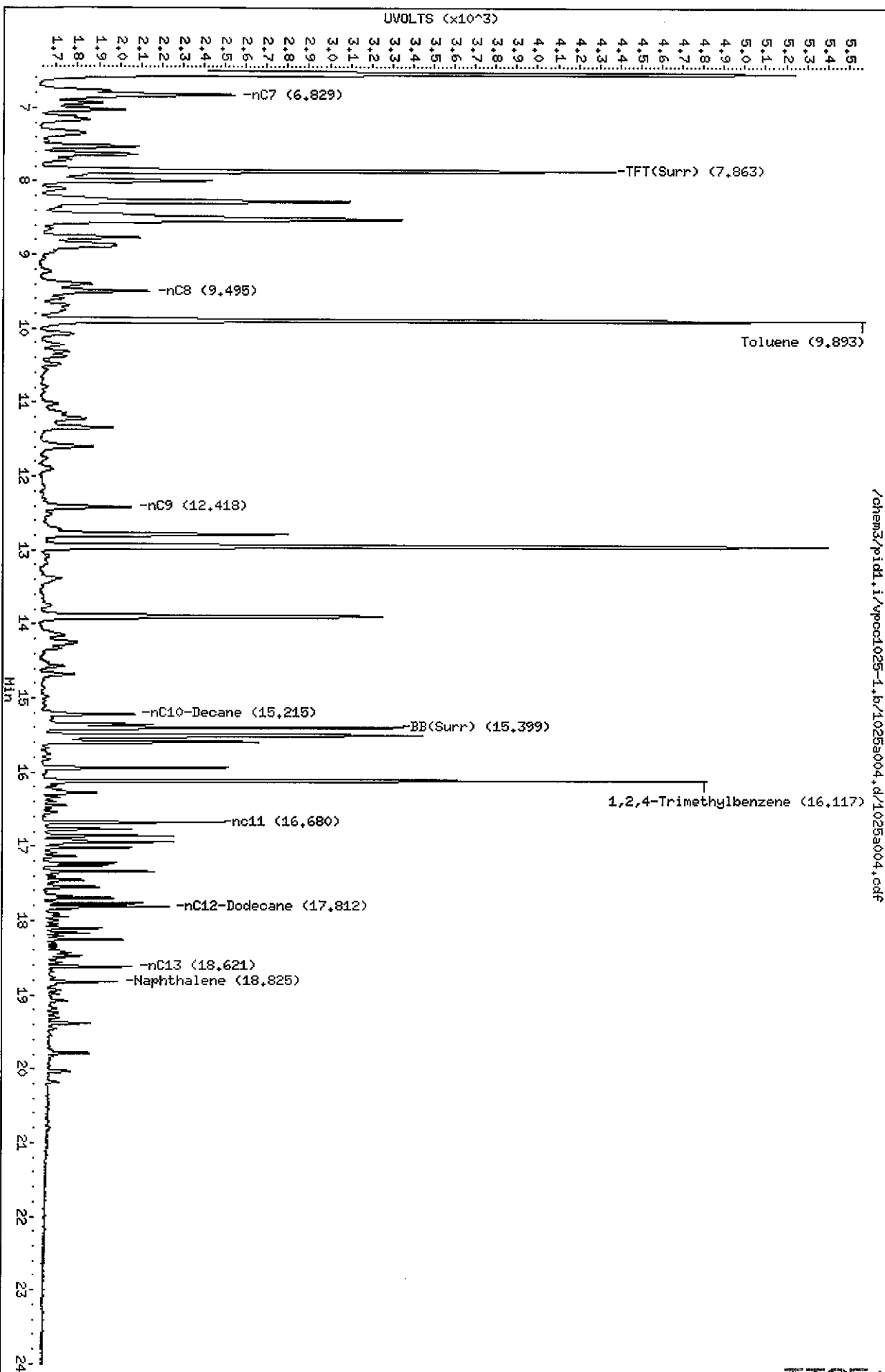
Column phase: RTX 602-2 FID

Instrument: pid1.i

Operator: HH

Column diameter: 0.18

Page 1



TT35:00019

Data File: /chem3/pid1.i/vpoc1025-2.b/1025a004.d

Date: 25-OCT-2011 07:03

Client ID:

Sample Info: LCS1025

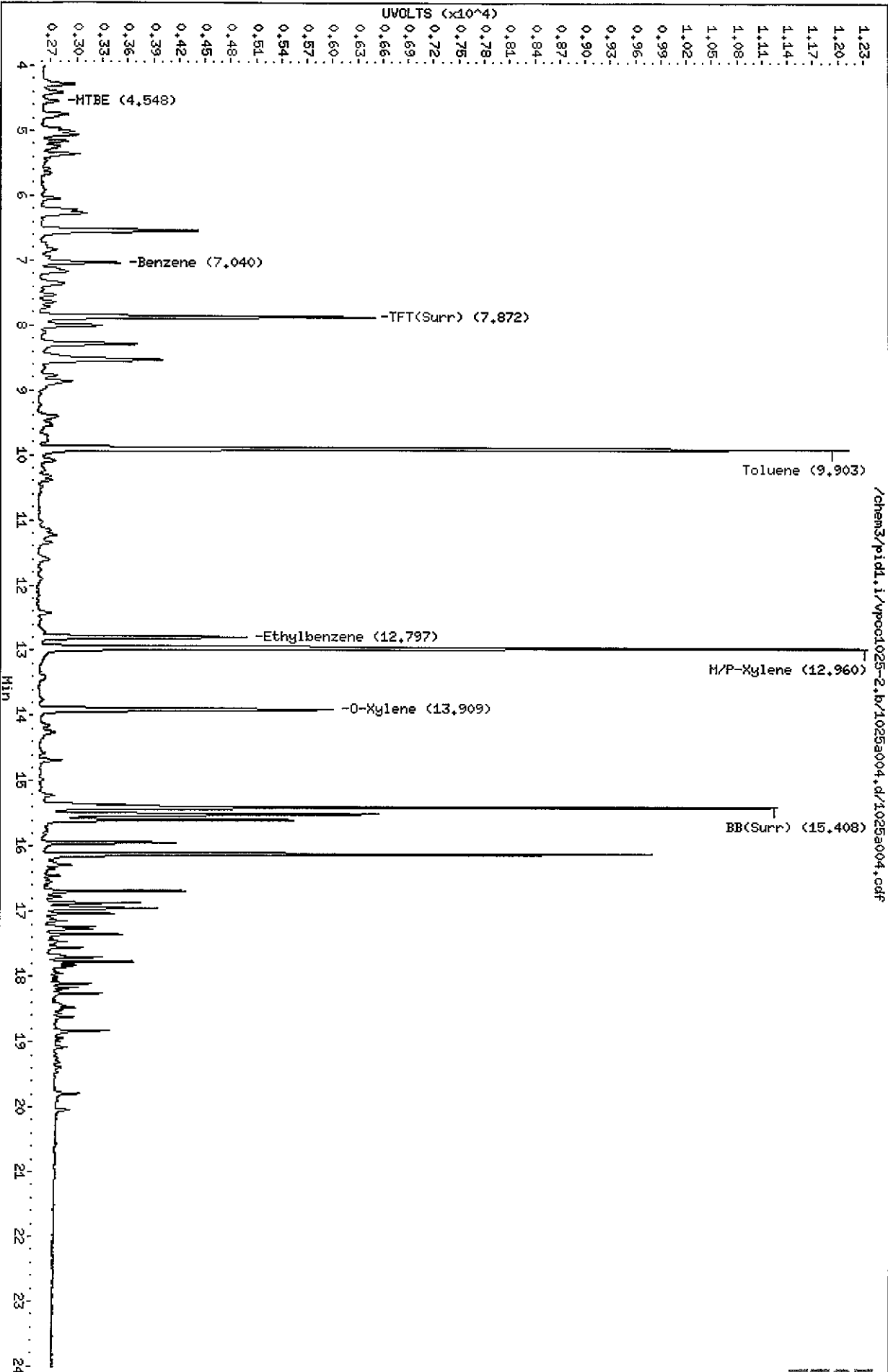
Column phase: RTX 502-2 PID

Instrument: pid1.i

Operator: HH

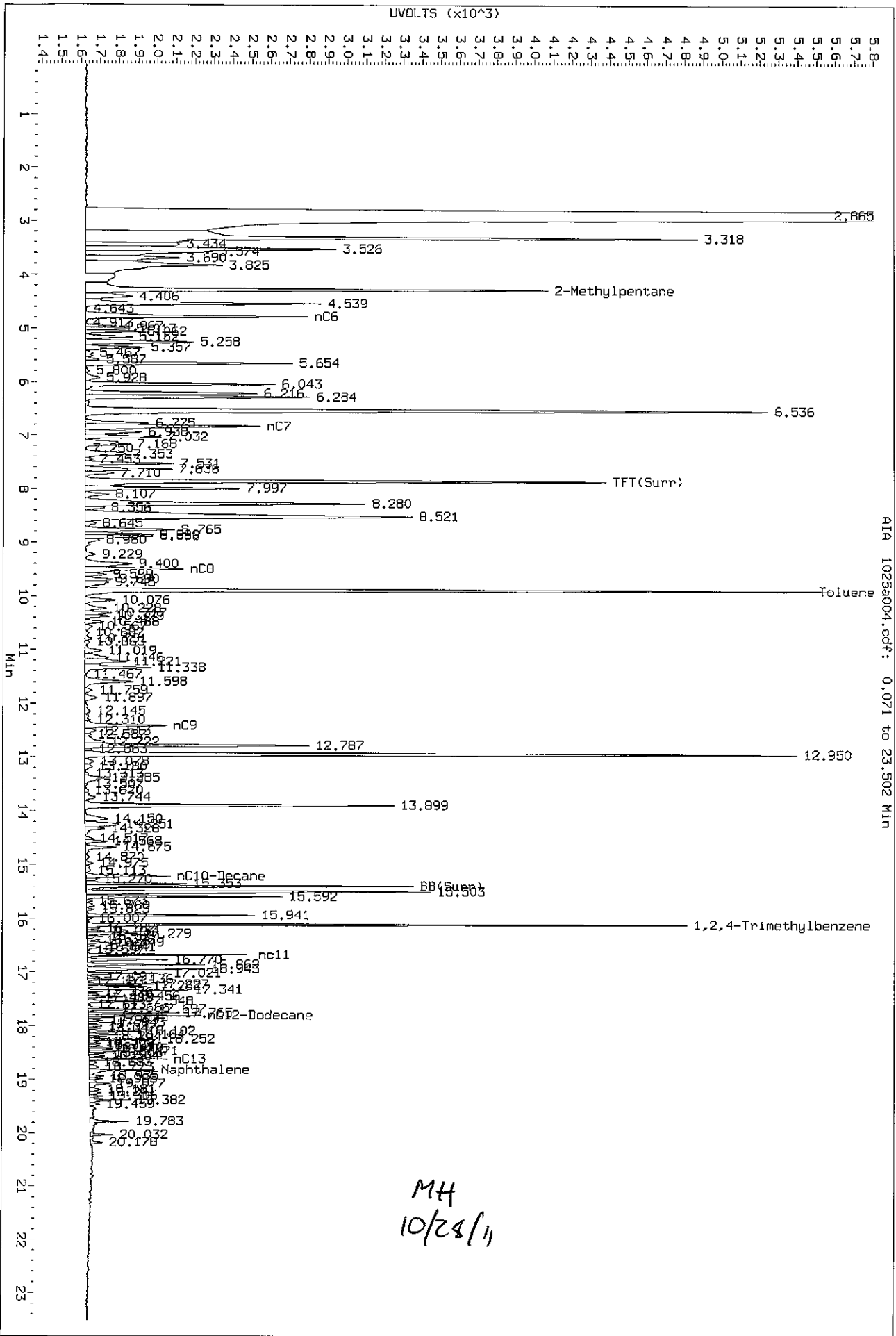
Column diameter: 0.18

Page 1



TT35: 00020

Data File: /chem3/pid1.1/vpcc1025-1.b/1025a004.d/1025a004.cdf
Injection Date: 25-OCT-2011 07:03
Instrument: pid1.1
Client Sample ID:



AIA 1025a004.cdf: 0.071 to 23.502 Min

Data File: /chem3/pid1.i/vpoc1025-1.b/1025a005.d

Date: 25-OCT-2011 07:32

Client ID:

Sample Info: LCSD1025

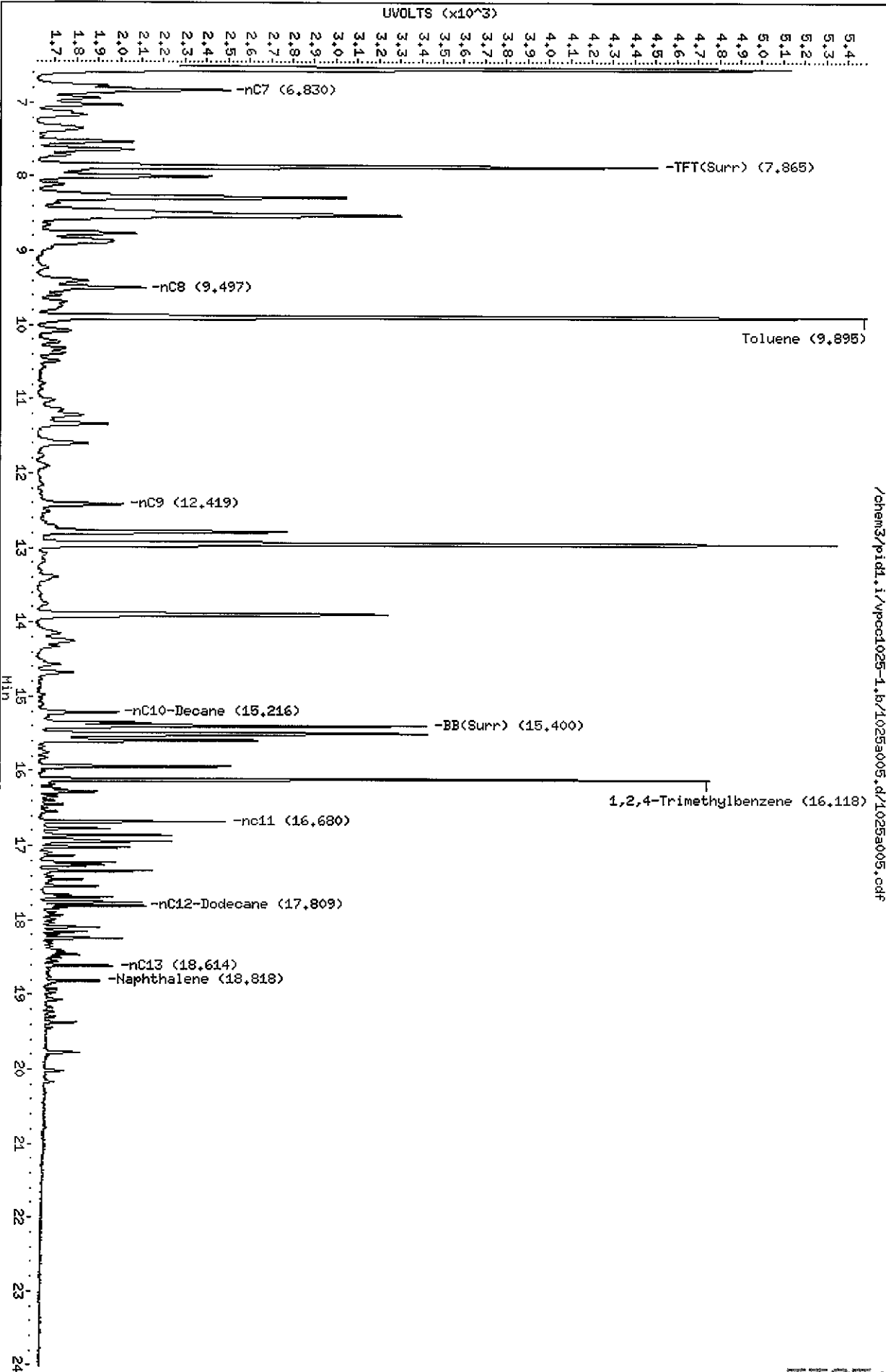
Column phase: RTX 502-2 FID

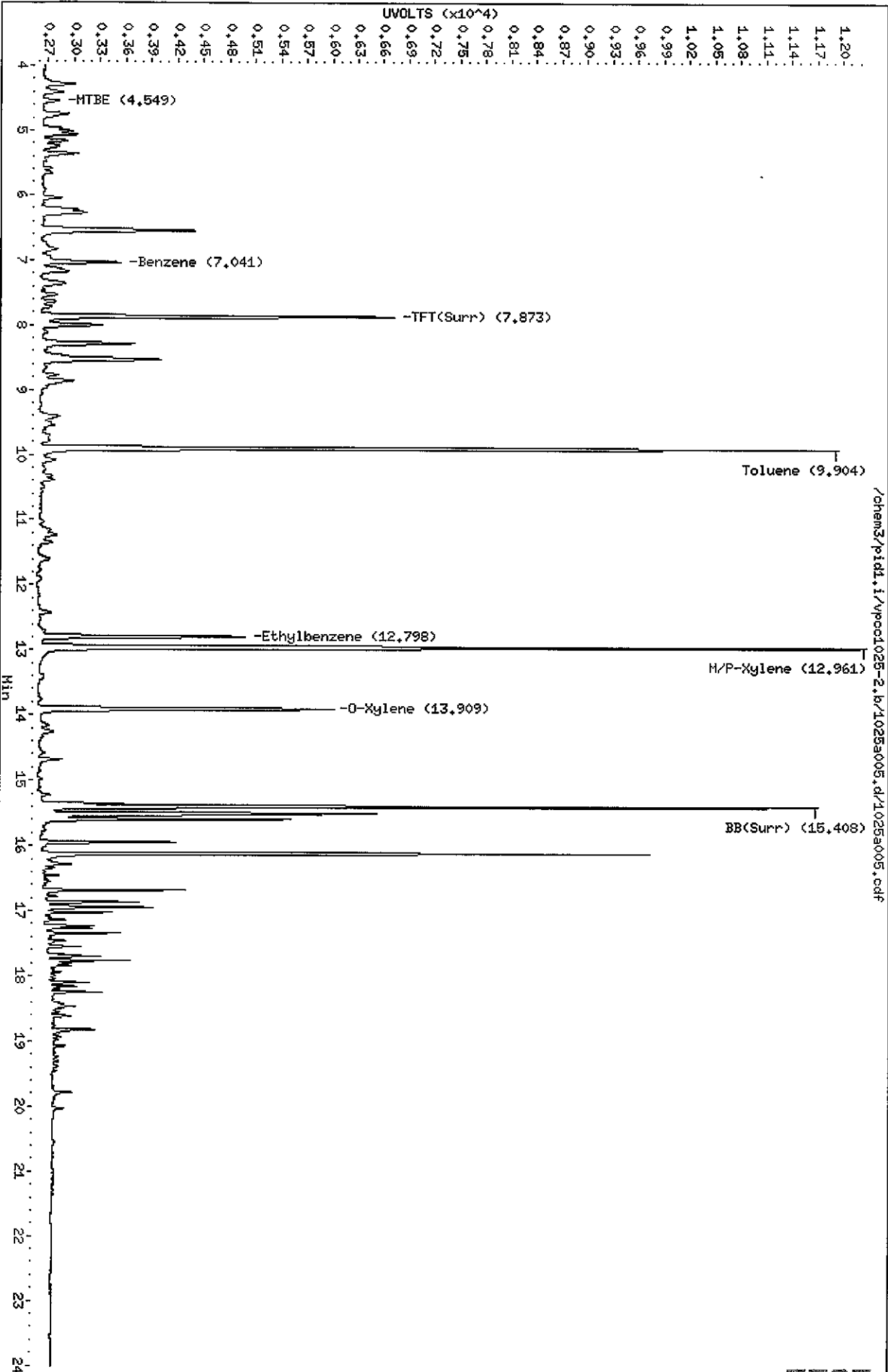
Instrument: pid1.i

Operator: HH

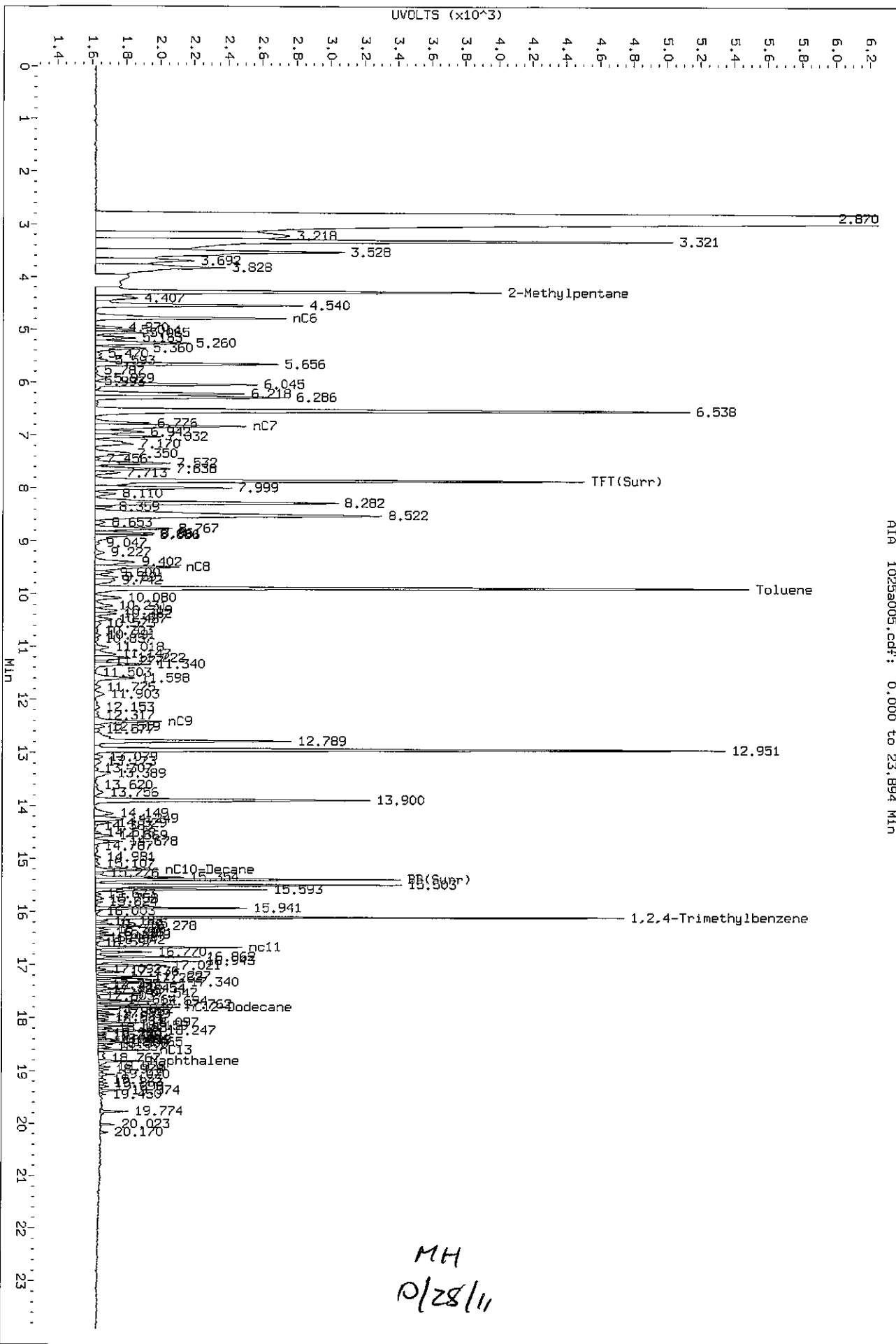
Column diameter: 0.18

/chem3/pid1.i/vpoc1025-1.b/1025a005.d/1025a005.cdf



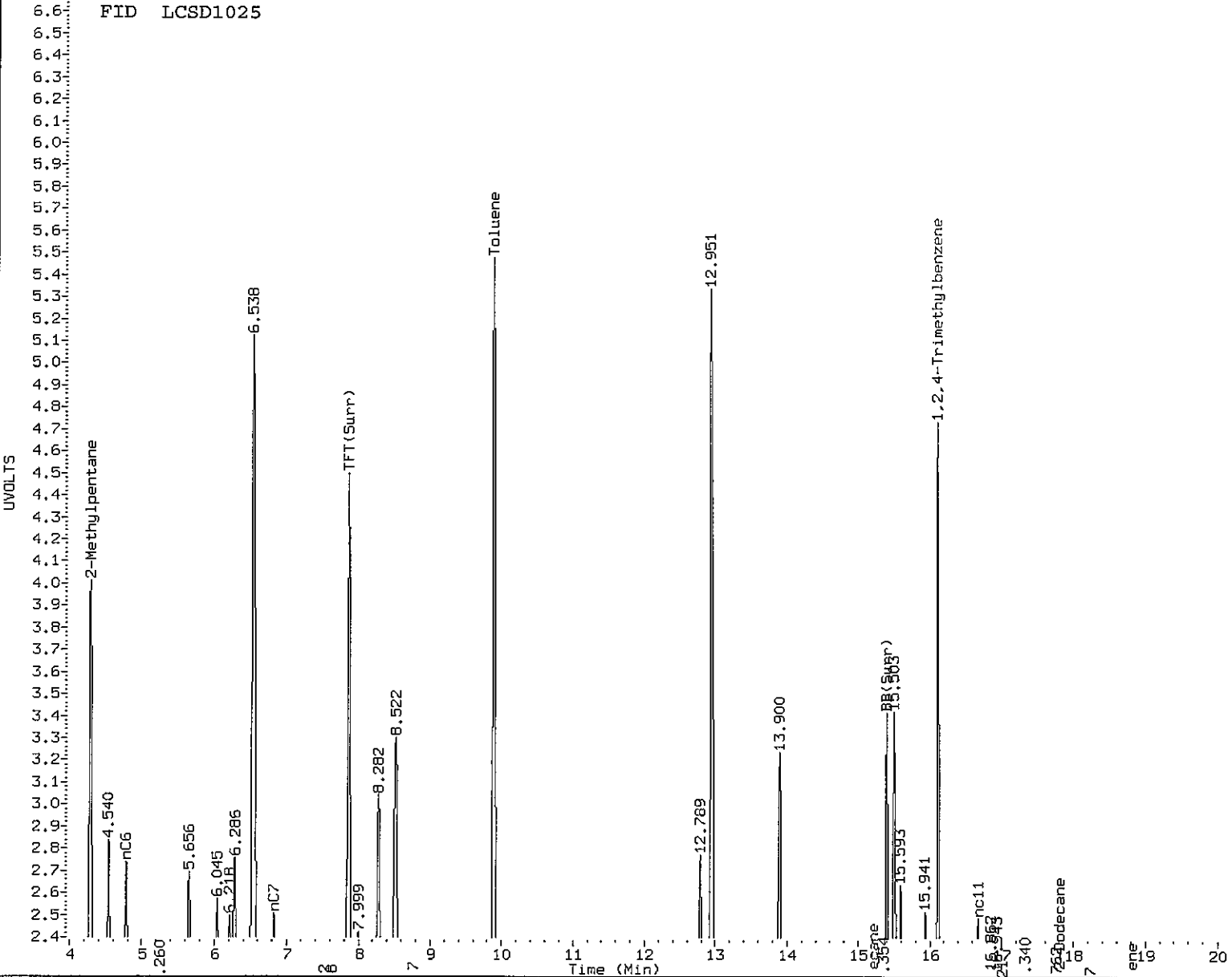


Data File: /chem3/pid1.1/vpcc1025-1.b/1025a005.d/1025a005.cdf
Injection Date: 25-OCT-2011 07:32
Instrument: pid1.1
Client Sample ID:



AIA 1025a005.cdf: 0.000 to 23.894 MIN

MH
10/28/11



MANUAL INTEGRATION

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: MH

Date: 10/28/11

Data File: /chem3/pid1.i/vpoc1025-1.b/1025a006.d

Date: 25-OCT-2011 08:02

Client ID:

Sample Info: MB1025

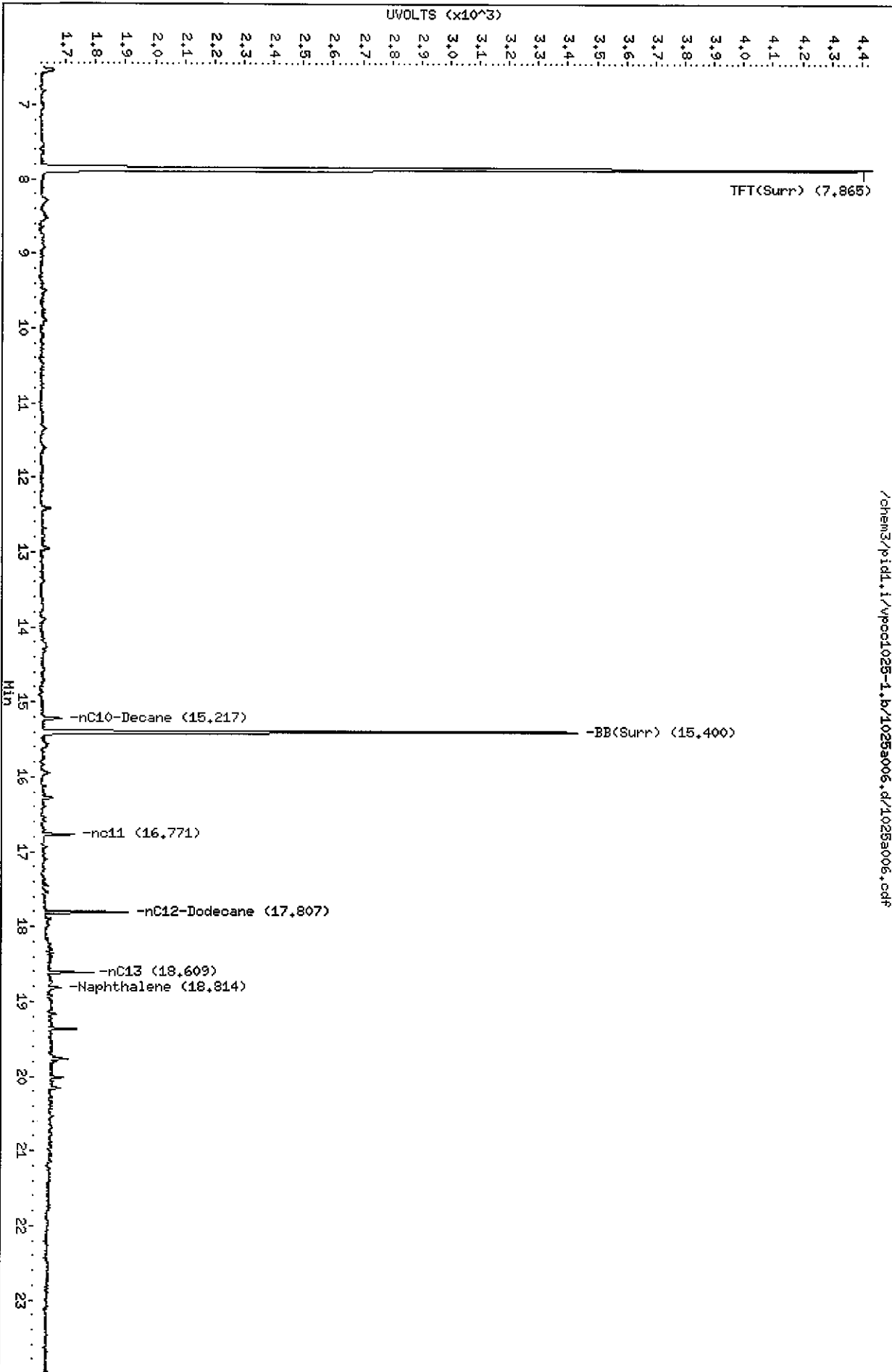
Column phase: RTX 502-2 FID

Instrument: pid1.i

Operator: HH

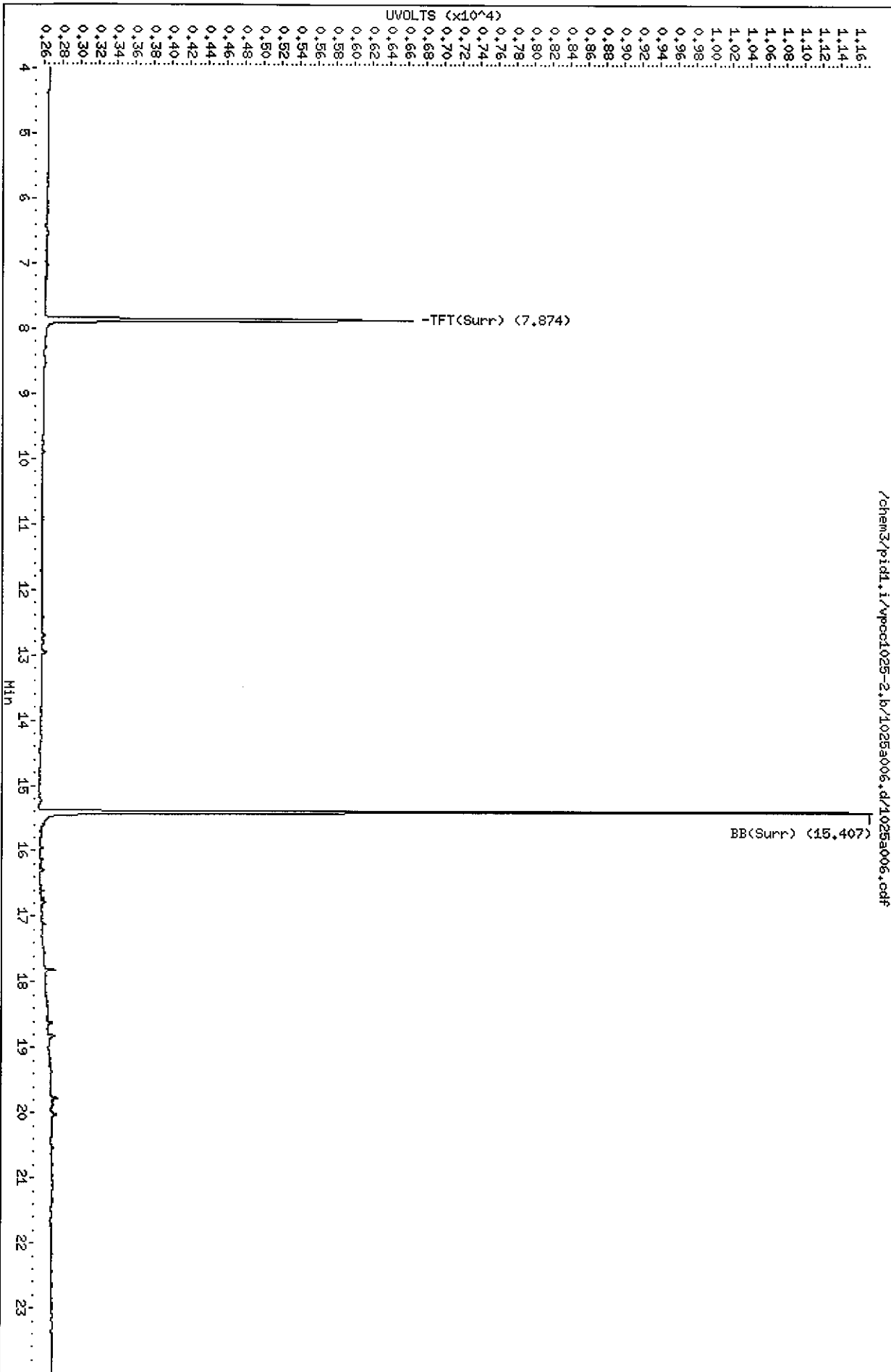
Column diameter: 0.18

Page 1



/chem3/pid1.i/vpoc1025-1.b/1025a006.d/1025a006.cdf

TT35: 00027



/chem3/pid1.i/vpoc1025-2.b/1025a006.d/1025a006.cdf

Data File: /chem3/pid1.i/vpoc1025-1.b/1025a009.d

Date: 25-OCT-2011 09:48

Client ID: Trip Blanks

Sample Info: TT35B

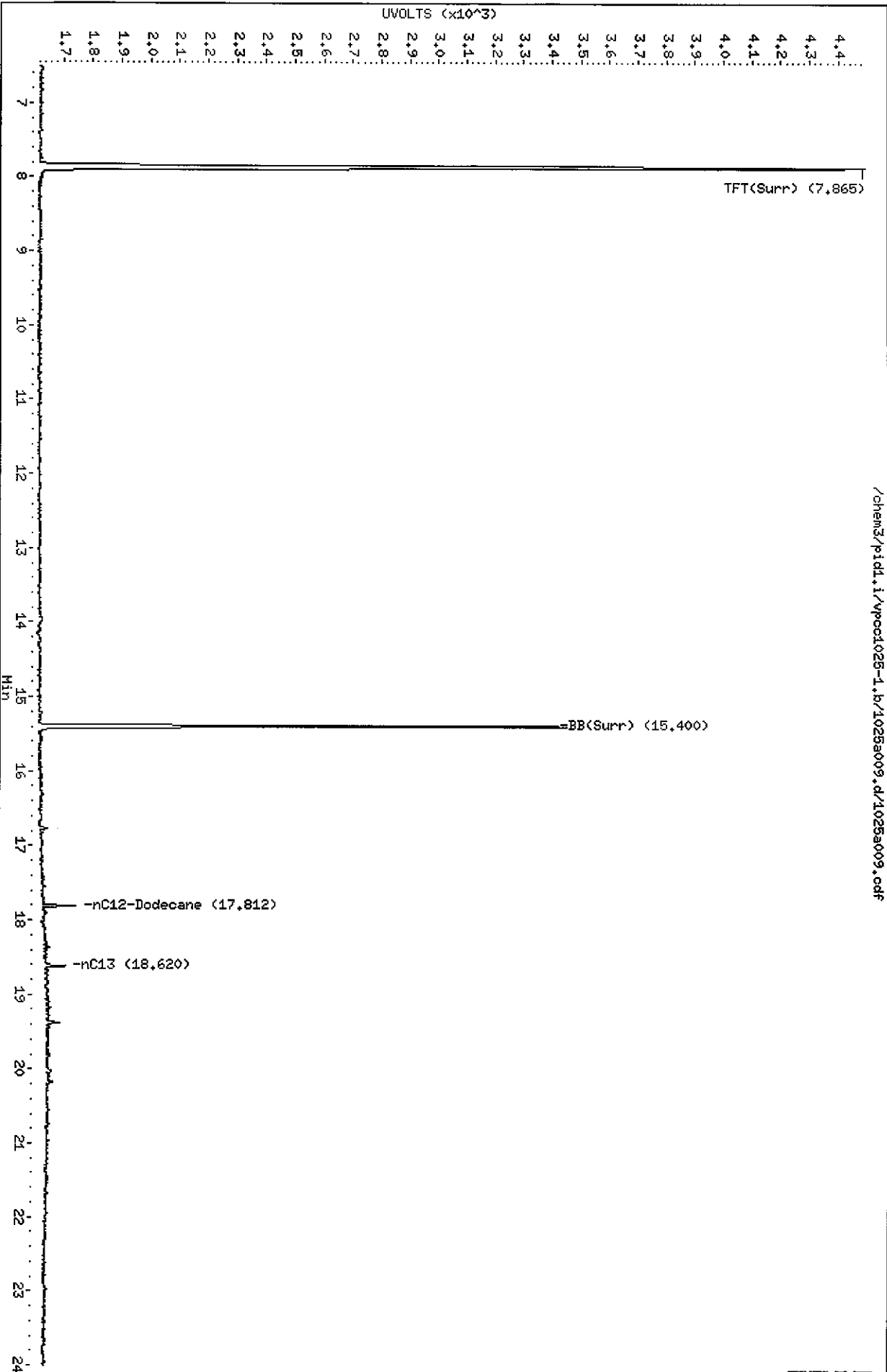
Column phase: RTX 502-2 FID

Instrument: pid1.i

Operator: HH

Column diameter: 0.18

Page 1



TT35: 00029

Data File: /chem3/pid1.i/vpcc1025-2.b/1025a009.d

Date: 25-OCT-2011 09:48

Client ID: Trip Blanks

Sample Info: TT35B

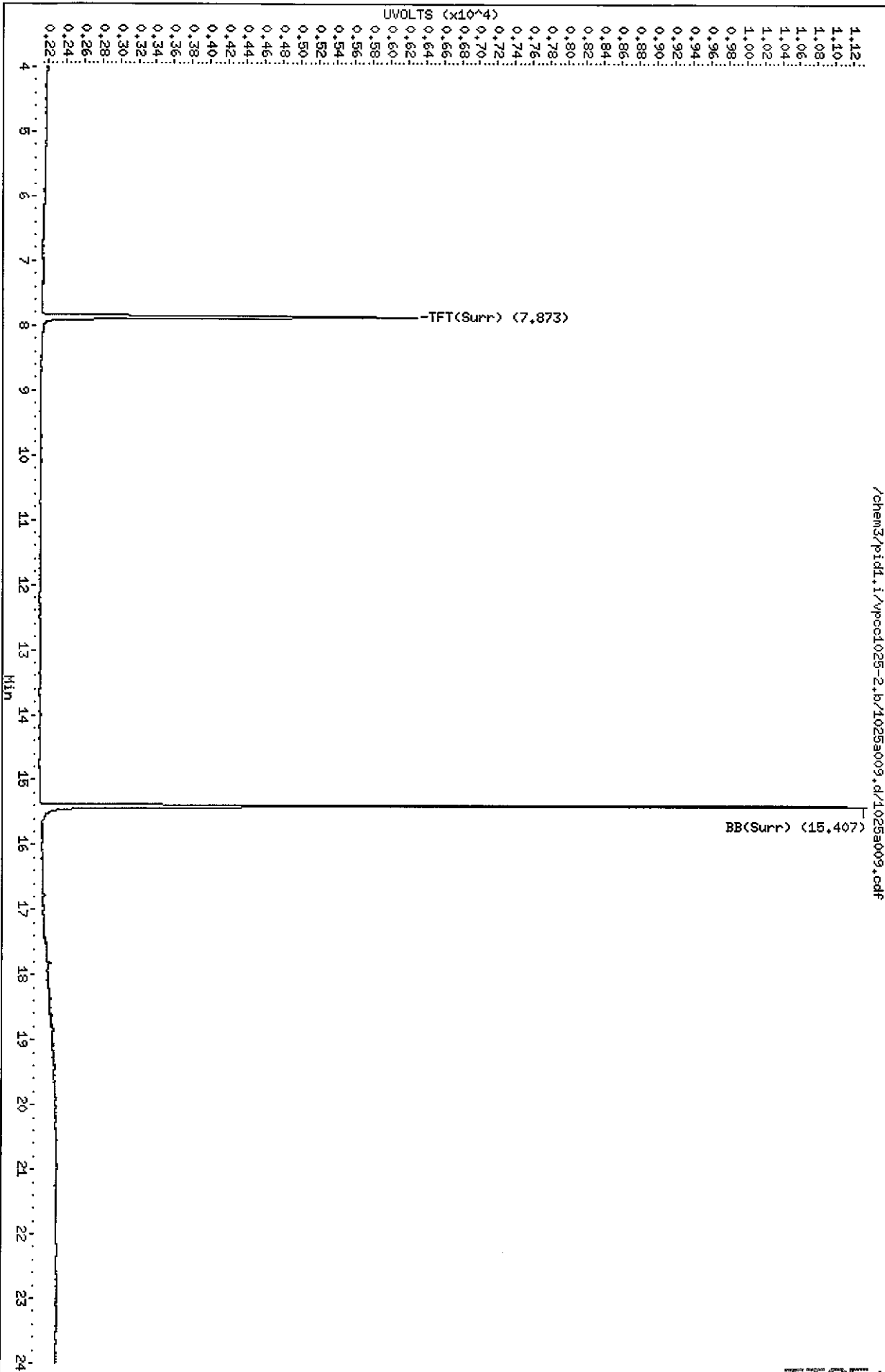
Column phase: RTX 502-2 PID

Instrument: pid1.i

Operator: RH

Column diameter: 0.18

Page 1



TT35: 00030

Data File: /chem3/pid1.i/vpoc1026-1.b/1026a004.d

Date: 26-OCT-2014 07:17

Client ID:

Sample Info: LCS1026

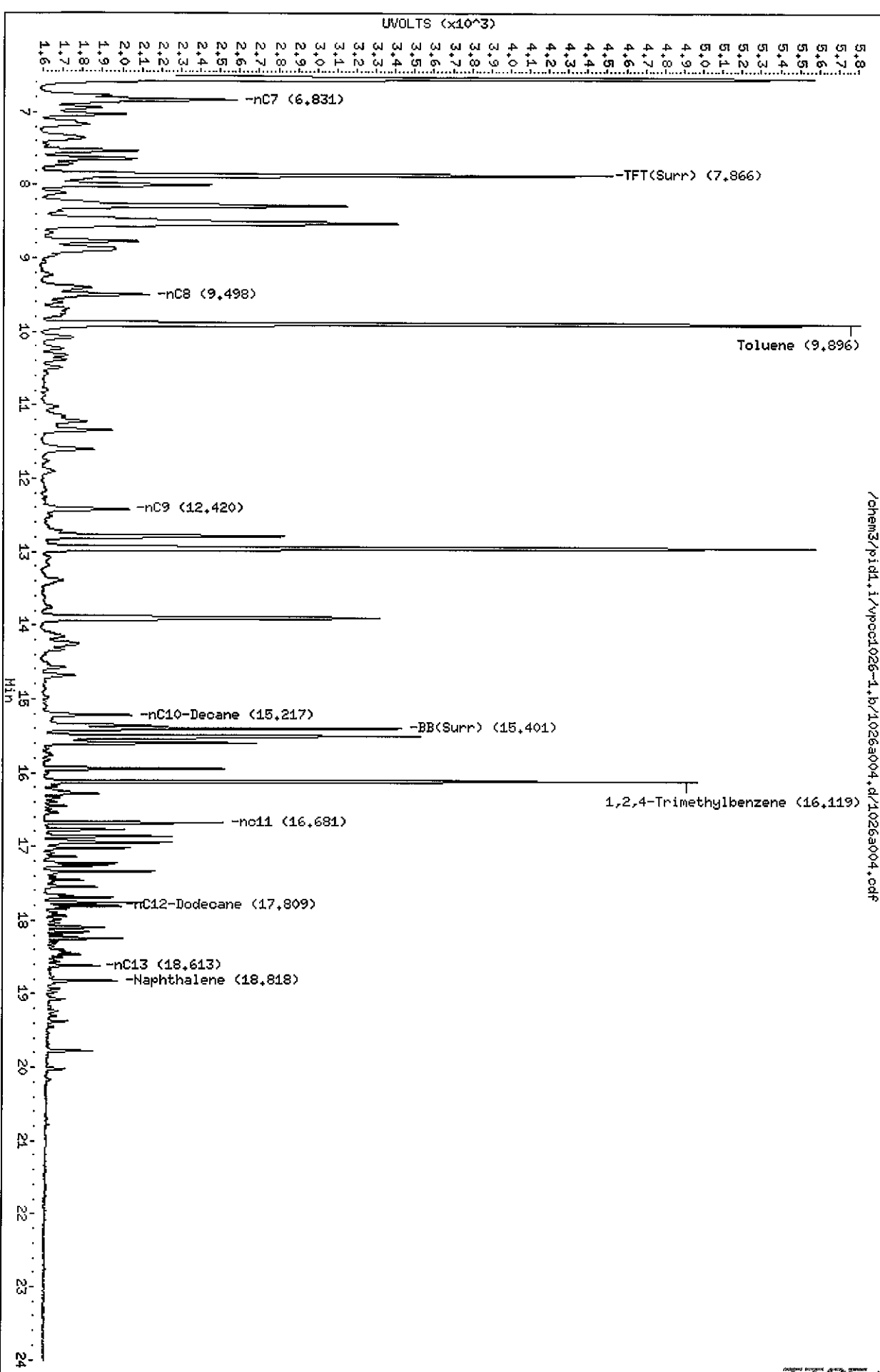
Column phase: RTX 502-2 FID

Instrument: pid1.i

Operator: HH

Column diameter: 0.18

/chem3/pid1.i/vpoc1026-1.b/1026a004.d/1026a004.cdf



Data File: /chem3/pidd1.i/vpoc1026-2.b/1026a004.d

Date: 26-OCT-2011 07:17

Client ID:

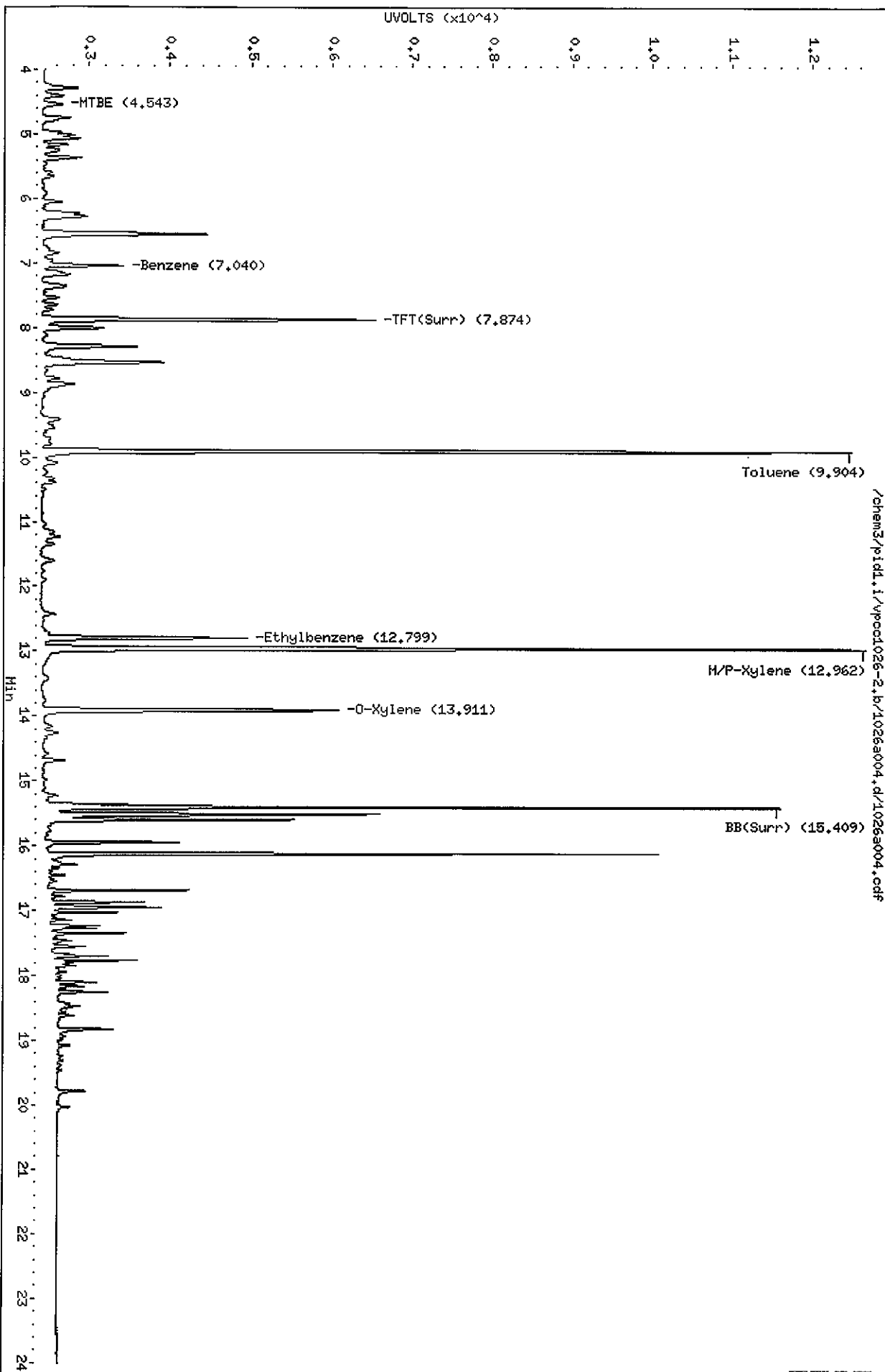
Sample Info: LCS1026

Column phase: RTX 502-2 PID

Instrument: pidd1.i

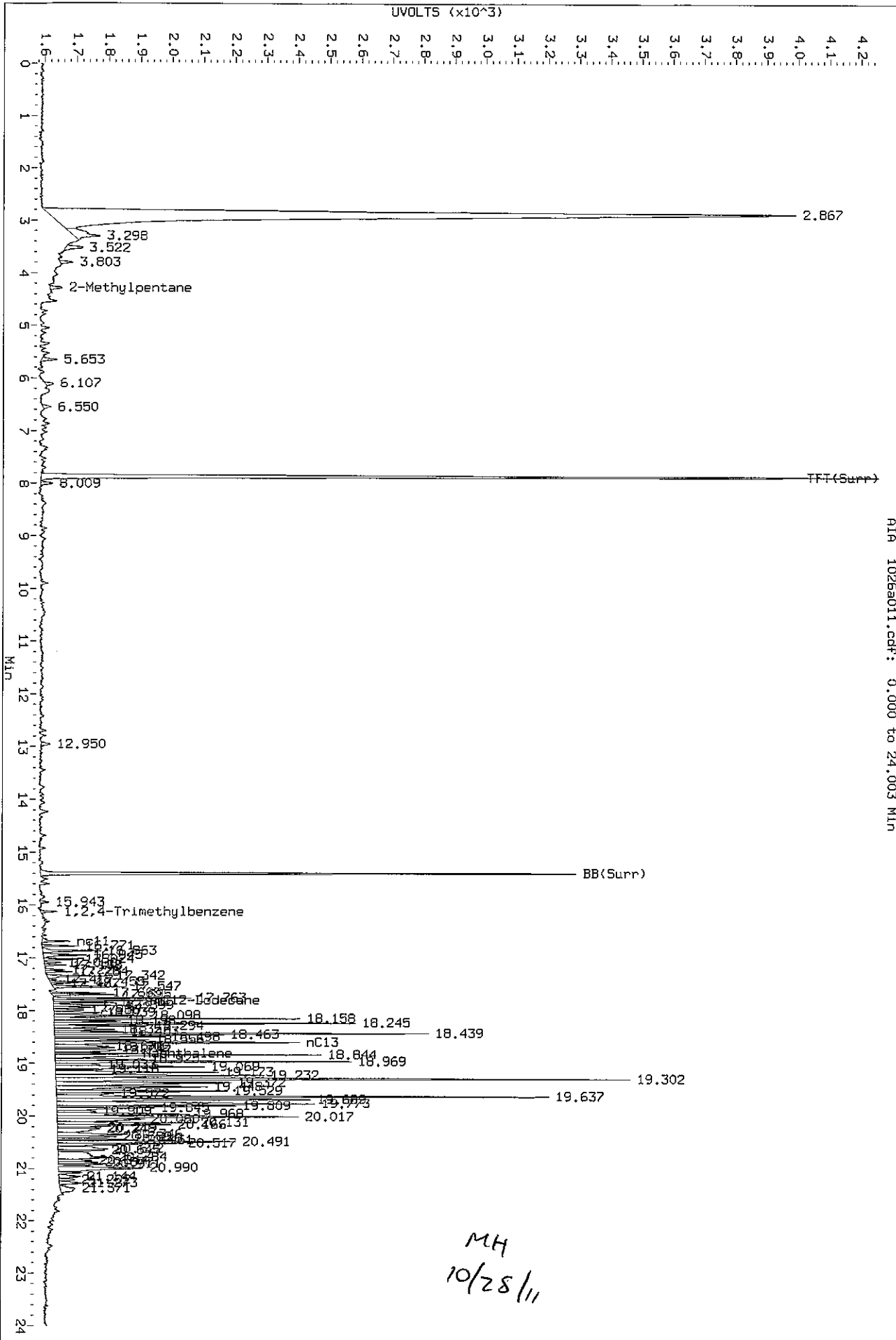
Operator: HH

Column diameter: 0.18



/chem3/pidd1.i/vpoc1026-2.b/1026a004.d/1026a004.cdf

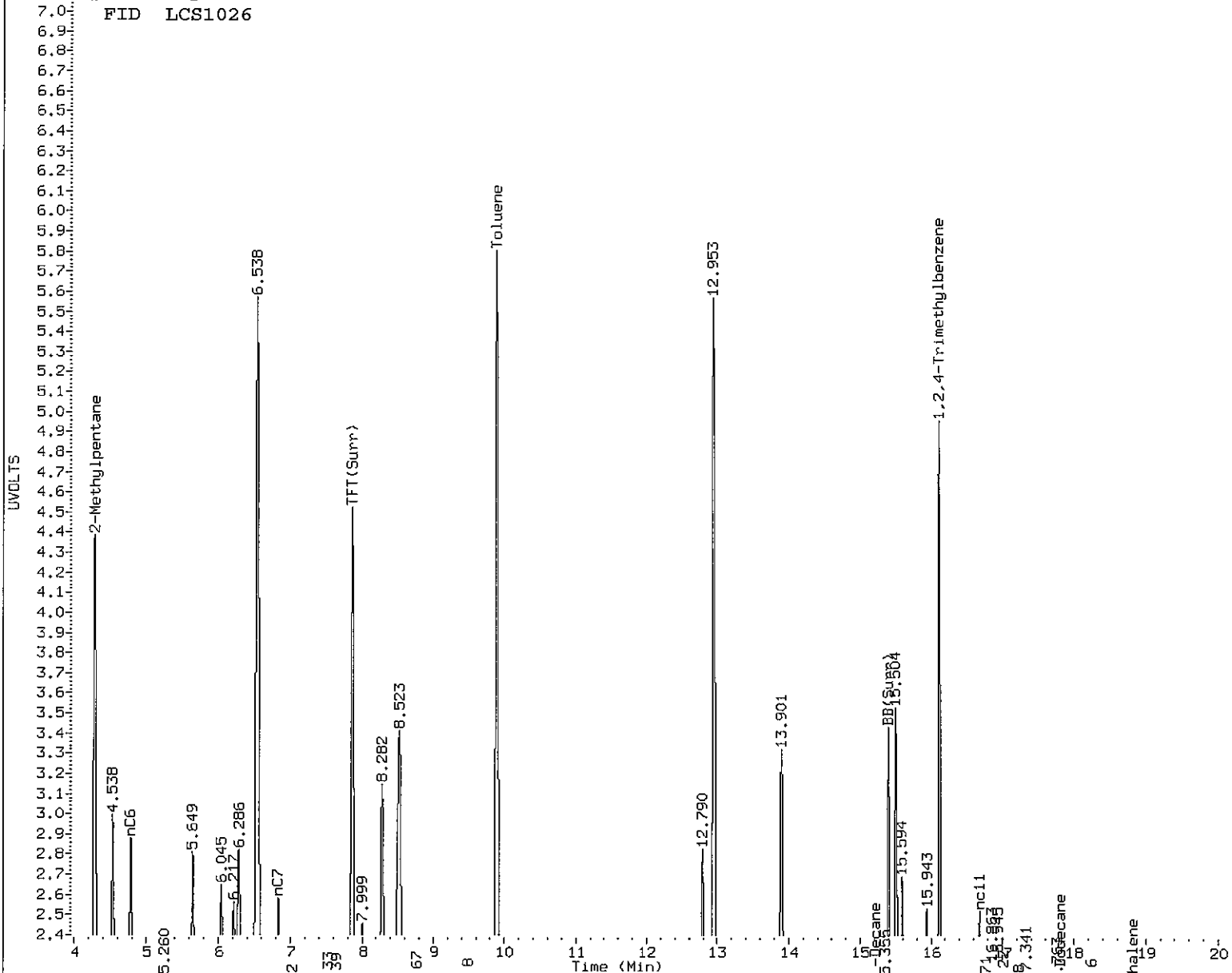
Data File: /chem3/pid1.1/vpcc1026-1.b/1026a011.d/1026a011.cdf
Injection Date: 26-OCT-2011 11:10
Instrument: pid1.1
Client Sample ID:



AIA 1026a011.cdf: 0.000 to 24.003 MIN

MH
10/28/11

FID LCS1026



MANUAL INTEGRATION

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: MH Date: 10/28/4

Data File: /chem3/pid1.i/vpec1026-1.b/1026a005.d

Date: 26-OCT-2011 07:47

Client ID:

Sample Info: LCSD1026

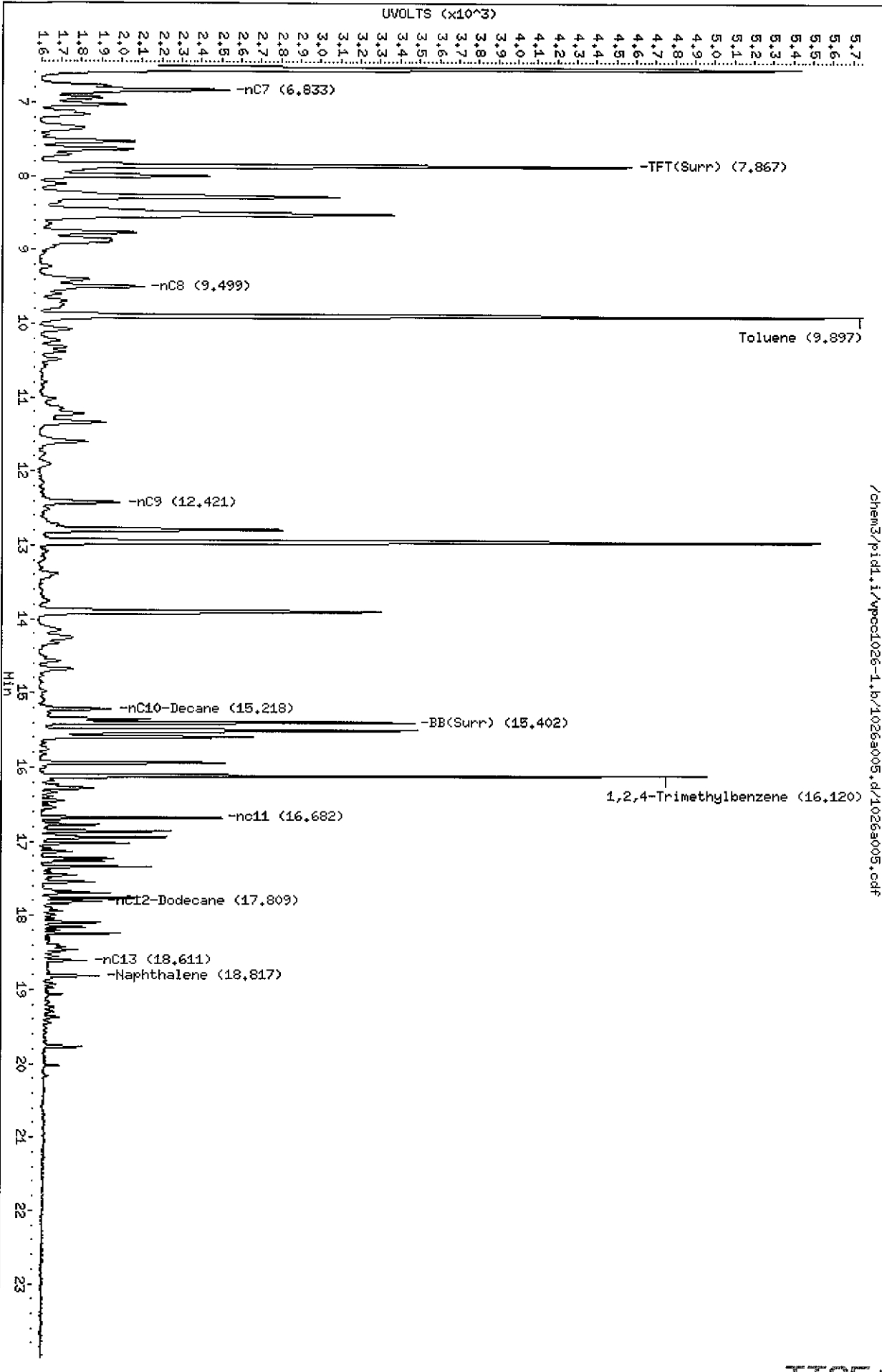
Column phase: RTX 502-2 FID

Instrument: pid1.i

Operator: NH

Column diameter: 0.18

Page 1



TT35 00035

Data File: /chem3/pidd1.i/vpoc1026-2.b/1026a005.d

Date: 26-OCT-2011 07:47

Client ID:

Sample Info: LCSD1026

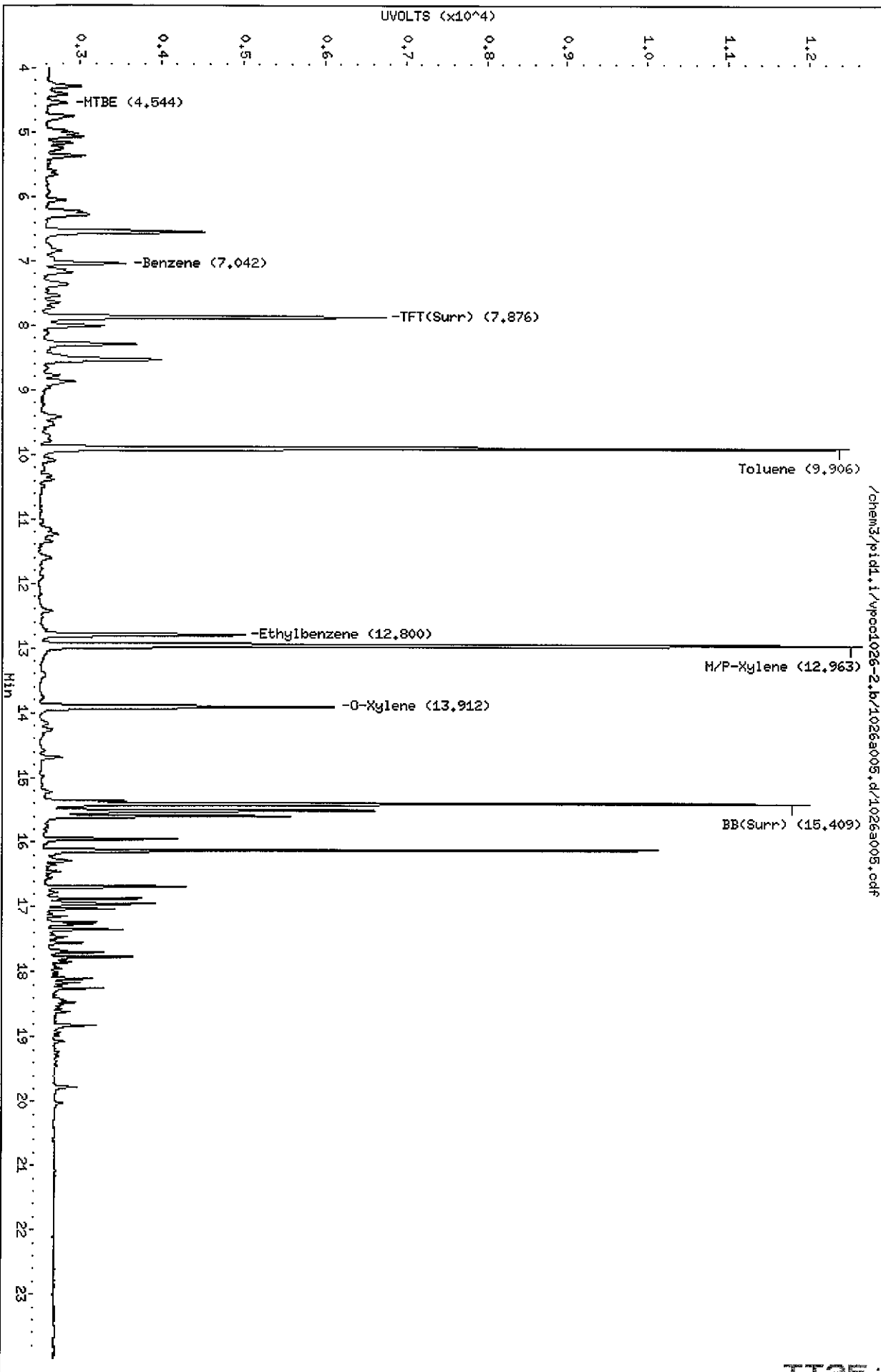
Column phase: RTX 502-2 PID

Instrument: pidd1.i

Operator: HH

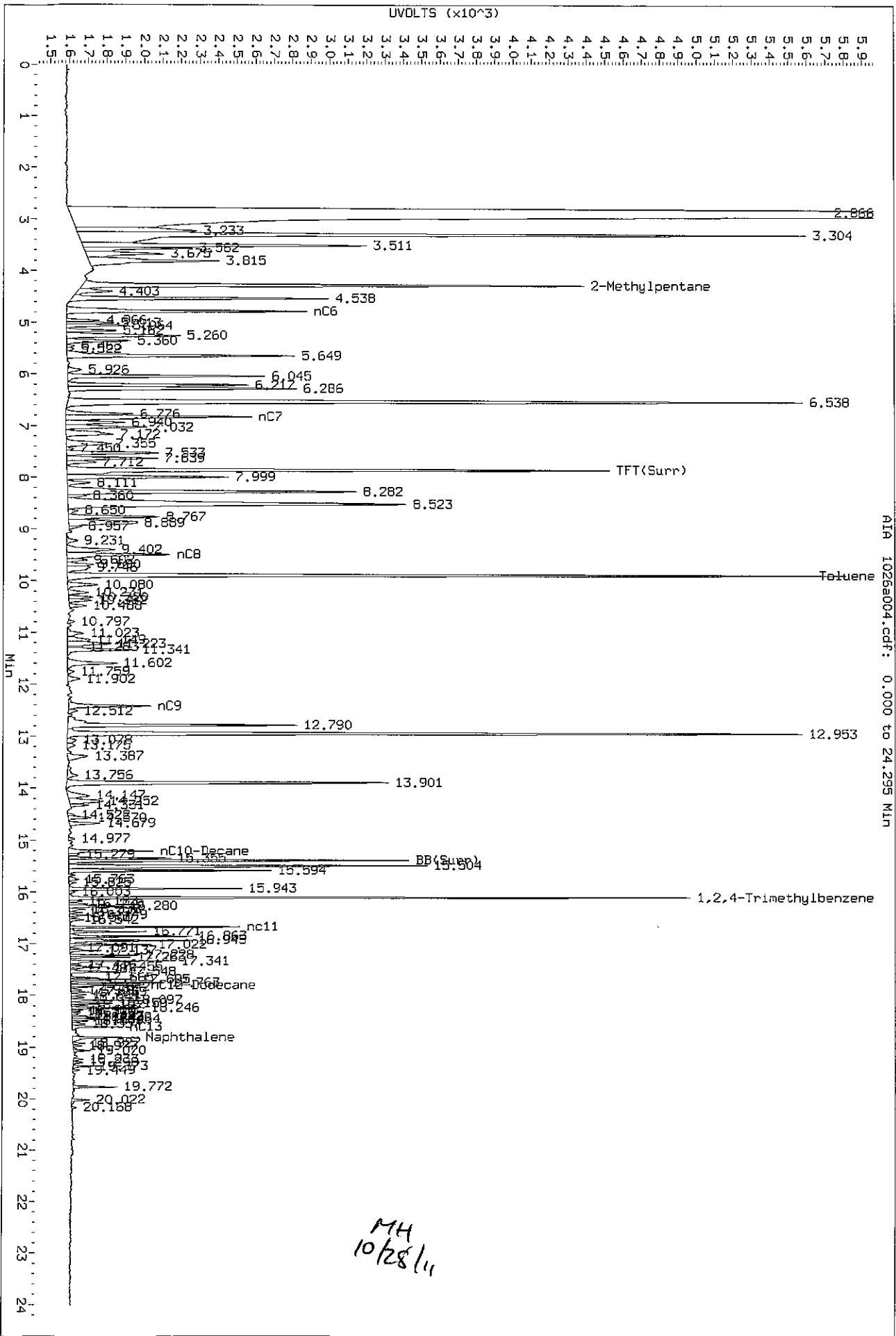
Column diameter: 0.18

Page 1



/chem3/pidd1.i/vpoc1026-2.b/1026a005.d/1026a005.cdf

Data File: /chem3/pid1.i/vpcc:1026-1.b/1026a004.d/1026a004.cdf
 Injection Date: 26-Oct-2011 07:17
 Instrument: pid1.i
 Client Sample ID:



MH
10/28/11

Data File: /chem3/pid1.i/vpcc1026-1.b/1026a006.d

Date: 26-OCT-2011 08:16

Client ID:

Sample Info: HB1026

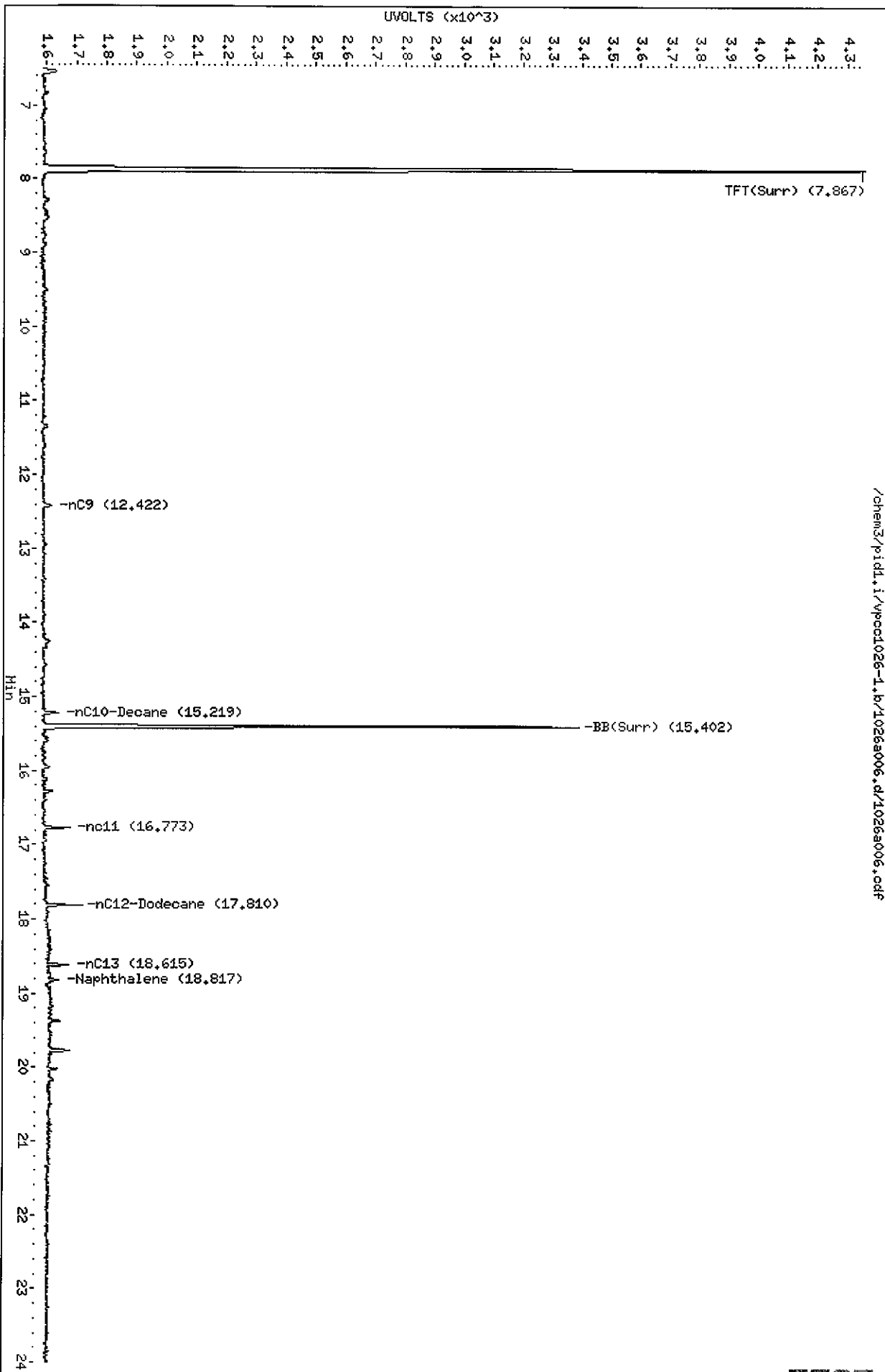
Column phase: RTX 502-2 FID

Instrument: pid1.i

Operator: HH

Column diameter: 0.18

Page 1



Data File: /chem3/pidd1.i/vpoc1026-2.b/1026a006.d

Date: 26-OCT-2011 08:16

Client ID:

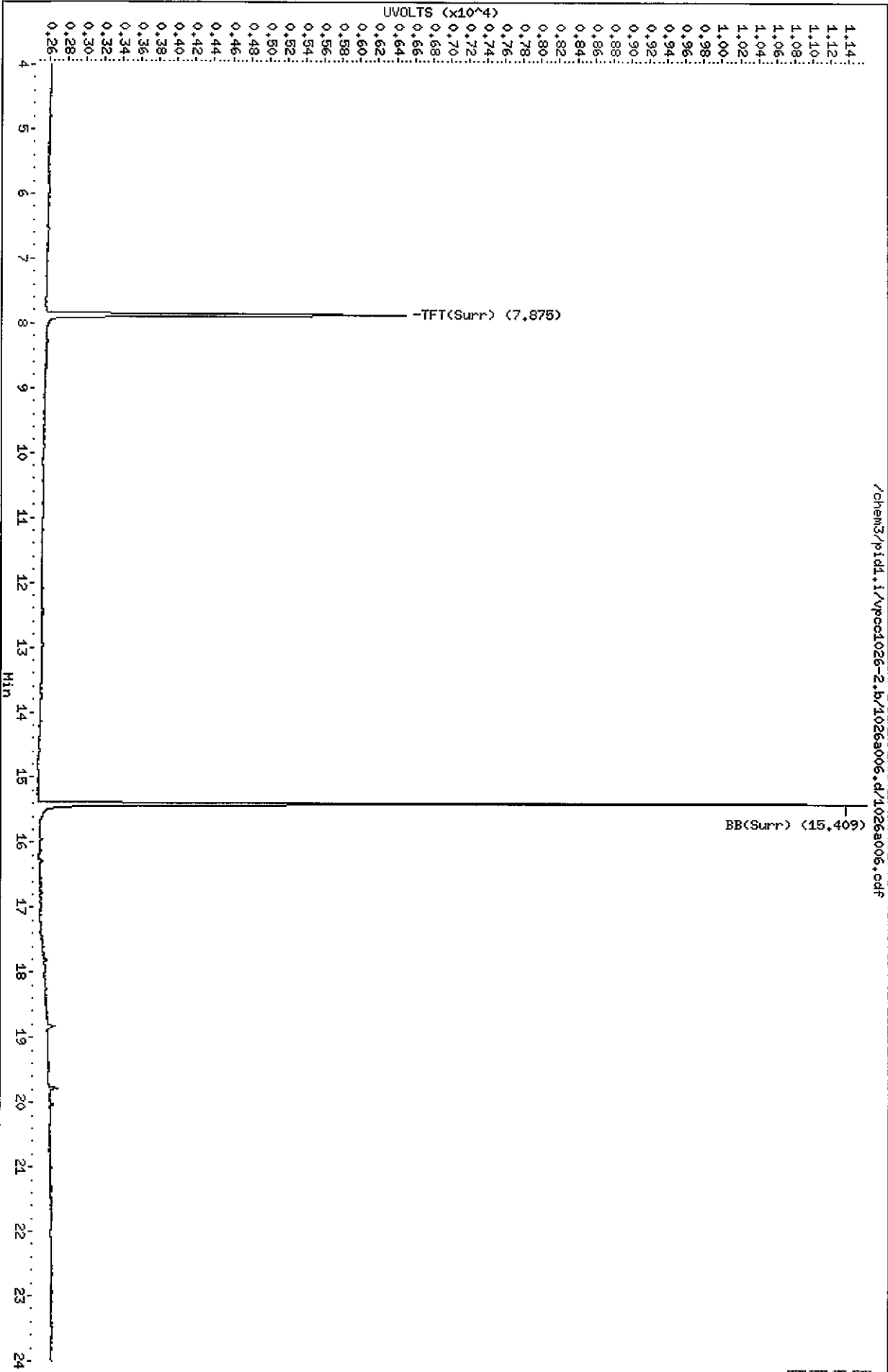
Sample Info: MB1026

Column phase: RTX 502-2 PID

Instrument: pidd1.i

Operator: HH

Column diameter: 0.18



/chem3/pidd1.i/vpoc1026-2.b/1026a006.d/1026a006.cdf

Data File: /chem3/pid1.i/vpoc1026-1.b/1026a011.d

Date: 26-OCT-2011 11:10

Client ID:

Sample Info: TT38A

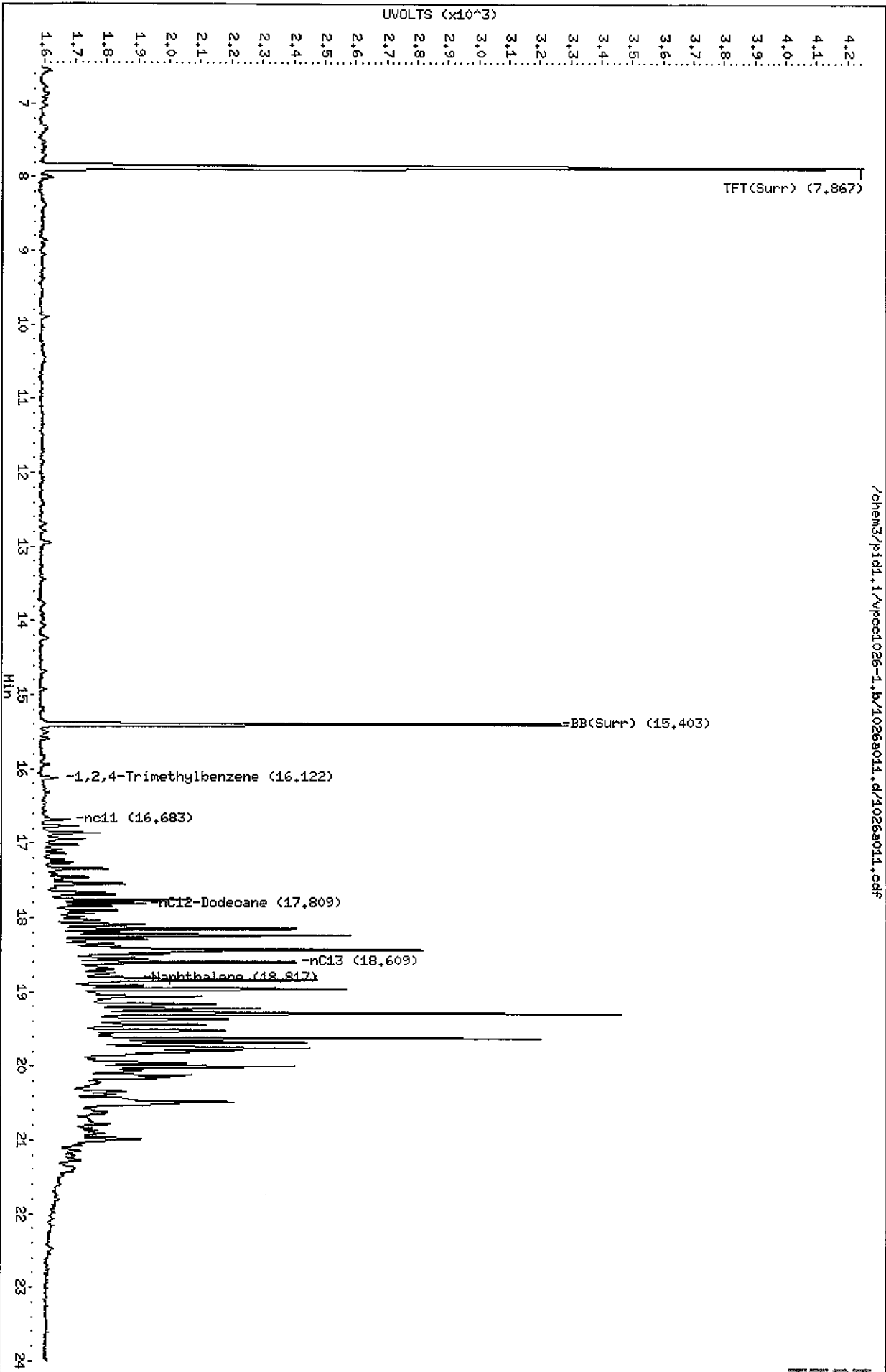
Column phase: RTX 502-2 FID

Instrument: pid1.i

Operator: HH

Column diameter: 0.18

Page 1



TT35 00041

Data File: /chem3/pid1.i/vpoc1026-2.b/1026a011.d

Date: 28-OCT-2011 11:10

Client ID:

Sample Info: TT35A

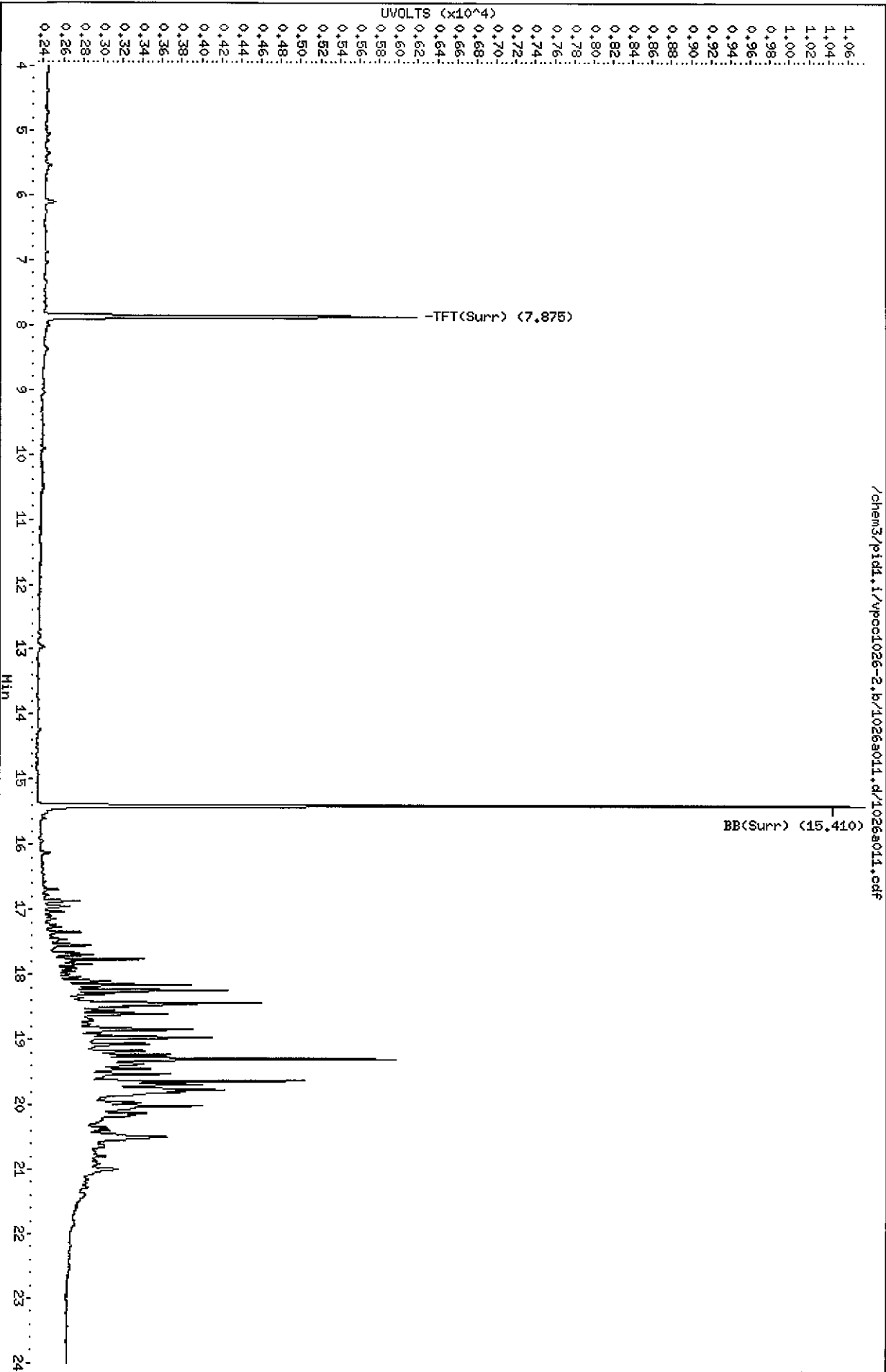
Column phase: RTX 502-2 PID

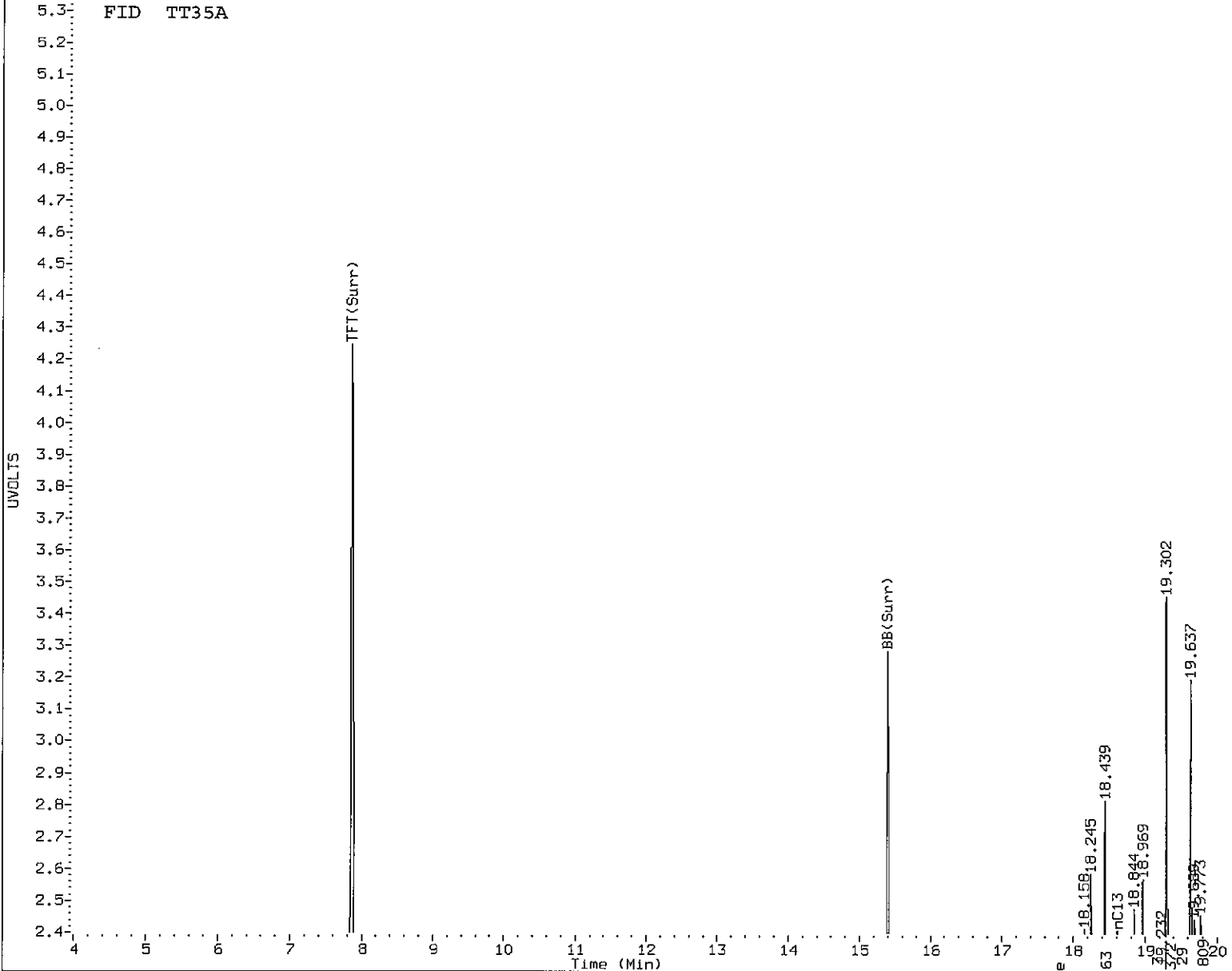
Instrument: pid1.i

Operator: HH

Column diameter: 0.18

Page 1





MANUAL INTEGRATION

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: MH Date: 10/28/11

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

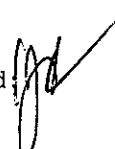
Page 1 of 1

Sample ID: DC-10-21-11
SAMPLE

Lab Sample ID: TT35A

LIMS ID: 11-24360

Matrix: Water

Data Release Authorized: 

Reported: 10/31/11

QC Report No: TT35-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Date Sampled: 10/21/11

Date Received: 10/24/11

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
3010A	10/25/11	6010B	10/27/11	7440-38-2	Arsenic	0.05	0.05	U
3010A	10/25/11	6010B	10/27/11	7440-39-3	Barium	0.003	0.051	
3010A	10/25/11	6010B	10/27/11	7440-43-9	Cadmium	0.002	0.002	U
3010A	10/25/11	6010B	10/27/11	7440-47-3	Chromium	0.005	0.005	U
3010A	10/25/11	6010B	10/27/11	7439-92-1	Lead	0.02	0.02	U
7470A	10/25/11	7470A	10/29/11	7439-97-6	Mercury	0.0001	0.0001	U
3010A	10/25/11	6010B	10/27/11	7782-49-2	Selenium	0.05	0.05	U
3010A	10/25/11	6010B	10/27/11	7440-22-4	Silver	0.003	0.003	U

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

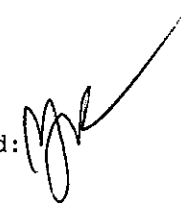
Page 1 of 1

Sample ID: DC-10-21-11
DUPLICATE

Lab Sample ID: TT35A

LIMS ID: 11-24360

Matrix: Water

Data Release Authorized: 

Reported: 10/31/11

QC Report No: TT35-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Date Sampled: 10/21/11

Date Received: 10/24/11

MATRIX DUPLICATE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Duplicate	RPD	Control Limit	Q
Arsenic	6010B	0.05 U	0.05 U	0.0%	+/- 0.05	L
Barium	6010B	0.051	0.052	1.9%	+/- 20%	
Cadmium	6010B	0.002 U	0.002 U	0.0%	+/- 0.002	L
Chromium	6010B	0.005 U	0.005 U	0.0%	+/- 0.005	L
Lead	6010B	0.02 U	0.02 U	0.0%	+/- 0.02	L
Mercury	7470A	0.0001 U	0.0001 U	0.0%	+/- 0.0001	L
Selenium	6010B	0.05 U	0.05 U	0.0%	+/- 0.05	L
Silver	6010B	0.003 U	0.003 U	0.0%	+/- 0.003	L

Reported in mg/L

*-Control Limit Not Met

L-RPD Invalid, Limit = Detection Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS


Page 1 of 1

Sample ID: DC-10-21-11
MATRIX SPIKE

Lab Sample ID: TT35A

LIMS ID: 11-24360

Matrix: Water

Data Release Authorized: 

Reported: 10/31/11

QC Report No: TT35-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Date Sampled: 10/21/11

Date Received: 10/24/11

MATRIX SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Spike	Spike Added	% Recovery	Q
Arsenic	6010B	0.05 U	2.07	2.00	104%	
Barium	6010B	0.051	2.07	2.00	101%	
Cadmium	6010B	0.002 U	0.501	0.500	100%	
Chromium	6010B	0.005 U	0.497	0.500	99.4%	
Lead	6010B	0.02 U	2.02	2.00	101%	
Mercury	7470A	0.0001 U	0.0010	0.0010	100%	
Selenium	6010B	0.05 U	2.10	2.00	105%	
Silver	6010B	0.003 U	0.515	0.500	103%	

Reported in mg/L

N-Control Limit Not Met

H-% Recovery Not Applicable, Sample Concentration Too High

NA-Not Applicable, Analyte Not Spiked

Percent Recovery Limits: 75-125%

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

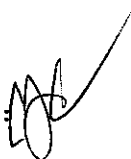
Page 1 of 1

Sample ID: METHOD BLANK

Lab Sample ID: TT35MB

LIMS ID: 11-24360

Matrix: Water

Data Release Authorized: 

Reported: 10/31/11

QC Report No: TT35-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Date Sampled: NA

Date Received: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
3010A	10/25/11	6010B	10/27/11	7440-38-2	Arsenic	0.05	0.05	U
3010A	10/25/11	6010B	10/27/11	7440-39-3	Barium	0.003	0.003	U
3010A	10/25/11	6010B	10/27/11	7440-43-9	Cadmium	0.002	0.002	U
3010A	10/25/11	6010B	10/27/11	7440-47-3	Chromium	0.005	0.005	U
3010A	10/25/11	6010B	10/27/11	7439-92-1	Lead	0.02	0.02	U
7470A	10/25/11	7470A	10/29/11	7439-97-6	Mercury	0.0001	0.0001	U
3010A	10/25/11	6010B	10/27/11	7782-49-2	Selenium	0.05	0.05	U
3010A	10/25/11	6010B	10/27/11	7440-22-4	Silver	0.003	0.003	U

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

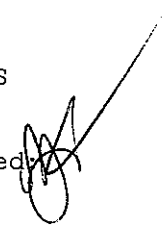
Page 1 of 1

Sample ID: LAB CONTROL

Lab Sample ID: TT35LCS

LIMS ID: 11-24360

Matrix: Water

Data Release Authorized 

Reported: 10/31/11

QC Report No: TT35-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Date Sampled: NA

Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Arsenic	6010B	2.06	2.00	103%	
Barium	6010B	2.12	2.00	106%	
Cadmium	6010B	0.509	0.500	102%	
Chromium	6010B	0.523	0.500	105%	
Lead	6010B	2.10	2.00	105%	
Mercury	7470A	0.0021	0.0020	105%	
Selenium	6010B	2.09	2.00	104%	
Silver	6010B	0.521	0.500	104%	

Reported in mg/L


N-Control limit not met

Control Limits: 80-120%

**ORGANICS ANALYSIS DATA SHEET
TOTAL DIESEL RANGE HYDROCARBONS**

NWTPHD by GC/FID-Silica and Acid Cleaned
Page 1 of 1
Matrix: Water

QC Report No: TT35-Kennedy Jenks Consultants
Project: Ecology Cornet Bay

Data Release Authorized: 
Reported: 11/01/11

ARI ID	Sample ID	Extraction Date	Analysis Date	EFV DL	Range	RL	Result
MB-102511 11-24360	Method Blank HC ID: ---	10/25/11	10/30/11 FID3B	1.00 1.0	Diesel Motor Oil o-Terphenyl	0.10 0.20	< 0.10 U < 0.20 U 84.3%
TT35A 11-24360	DC-10-21-11 HC ID: DIESEL/RRO	10/25/11	10/30/11 FID3B	1.00 1.0	Diesel Motor Oil o-Terphenyl	0.11 0.22	22 E 0.67 NR
TT35A DIL 11-24360	DC-10-21-11 HC ID: DIESEL	10/25/11	10/31/11 FID3B	1.00 20	Diesel Motor Oil o-Terphenyl	2.2 4.4	23 < 4.4 U 94.2%

Reported in mg/L (ppm)

EFV-Effective Final Volume in mL.
DL-Dilution of extract prior to analysis.
RL-Reporting limit.

Diesel quantitation on total peaks in the range from C12 to C24.
Motor Oil quantitation on total peaks in the range from C24 to C38.
HC ID: DRO/RRO indicate results of organics or additional hydrocarbons in ranges are not identifiable.

CLEANED TPHD SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: TT35-Kennedy Jenks Consultants
Project: Ecology Cornet Bay

<u>Client ID</u>	<u>OTER</u>	<u>TOT OUT</u>
MB-102511	84.3%	0
LCS-102511	93.5%	0
LCSD-102511	95.1%	0
DC-10-21-11	NR	0
DC-10-21-11 DL	94.2%	0

LCS/MB LIMITS QC LIMITS

(OTER) = o-Terphenyl

(50-150)

(50-150)

Prep Method: SW3510C
Log Number Range: 11-24360 to 11-24360

FORM-II TPHD

TOTAL DIESEL RANGE HYDROCARBONS-EXTRACTION REPORT

Matrix: Water

ARI Job: TT35

Date Received: 10/24/11

Project: Ecology Cornet Bay

<u>ARI ID</u>	<u>Client ID</u>	<u>Samp Amt</u>	<u>Final Vol</u>	<u>Prep Date</u>
11-24360-102511MB1	Method Blank	500 mL	1.00 mL	10/25/11
11-24360-102511LCS1	Lab Control	500 mL	1.00 mL	10/25/11
11-24360-102511LCS1	Lab Control Dup	500 mL	1.00 mL	10/25/11
11-24360-TT35A	DC-10-21-11	450 mL	1.00 mL	10/25/11

Diesel Extraction Report

TT35 : 00053

Data File: /chem3/fid3b.i/20111029b.b/1029b083.d

Date: 30-OCT-2011 16:57

Client ID:

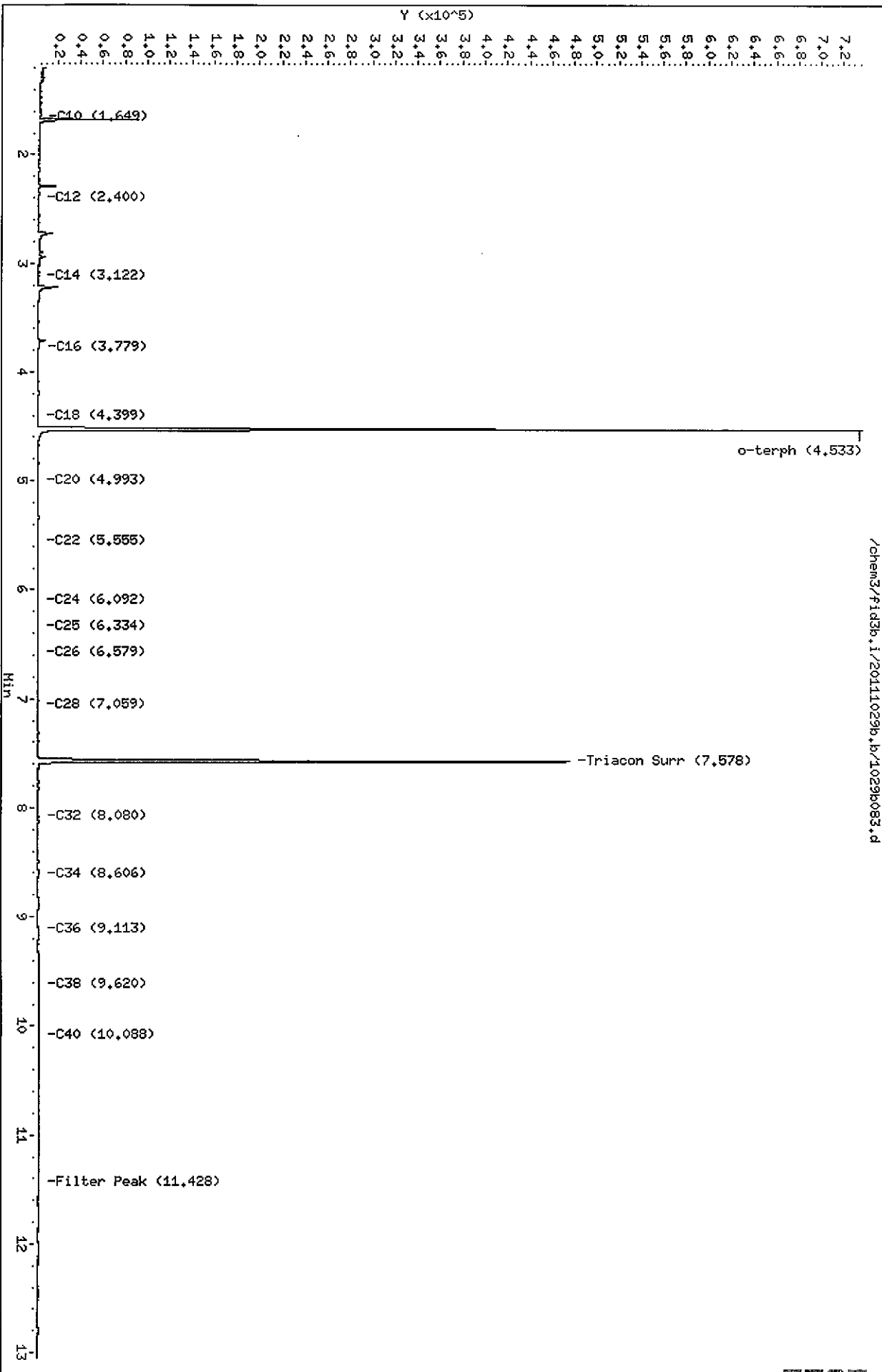
Sample Info: T103HBM1

Column phase: RTX-1

Instrument: fid3b.i

Operator: PC

Column diameter: 0.25



Data File: /chem3/fid3b.i/20111029b.b/1029b084.d

Date : 30-OCT-2011 17:20

Client ID:

Sample Info: TT03LCSM4

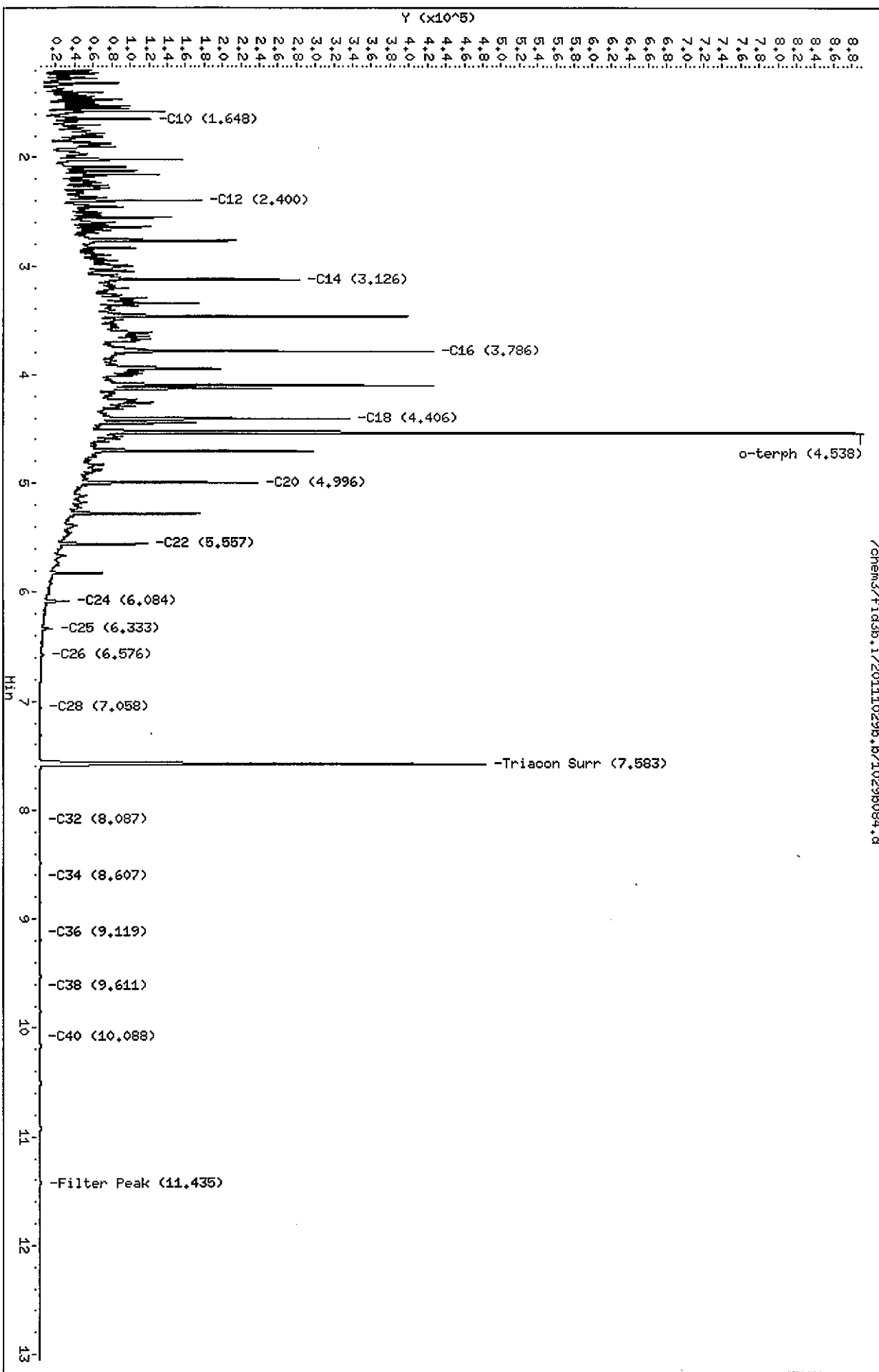
Column phase: RTX-1

Instrument: fid3b.i

Operator: PC

Column diameter: 0.25

Page 1



Data File: /chem3/fid3b.i/20111029b.b/1029b085.d

Date: 30-OCT-2011 17:42

Client ID:

Sample Info: TT03L0SDM4

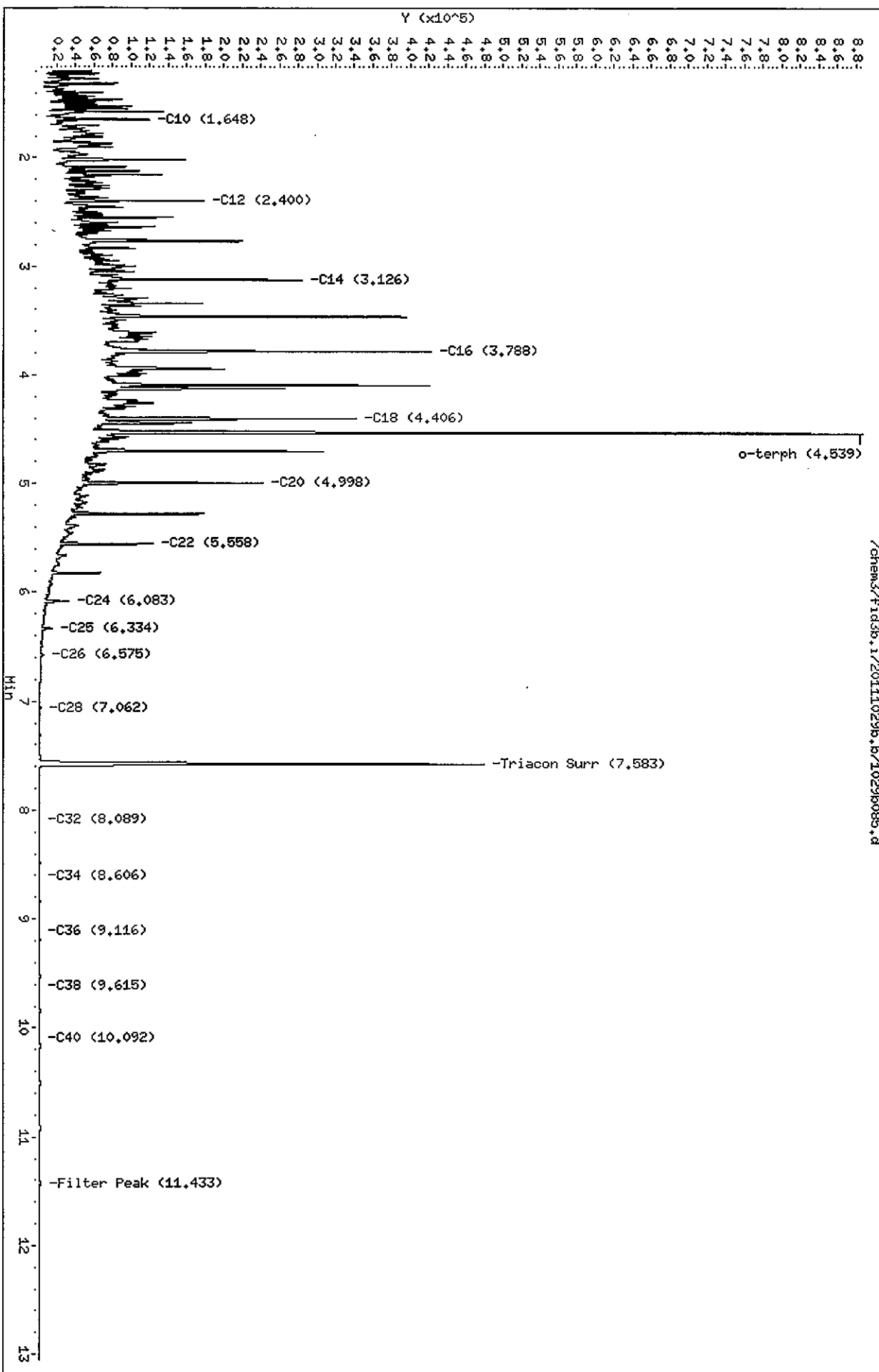
Column phase: RTX-1

Instrument: fid3b.i

Operator: PC

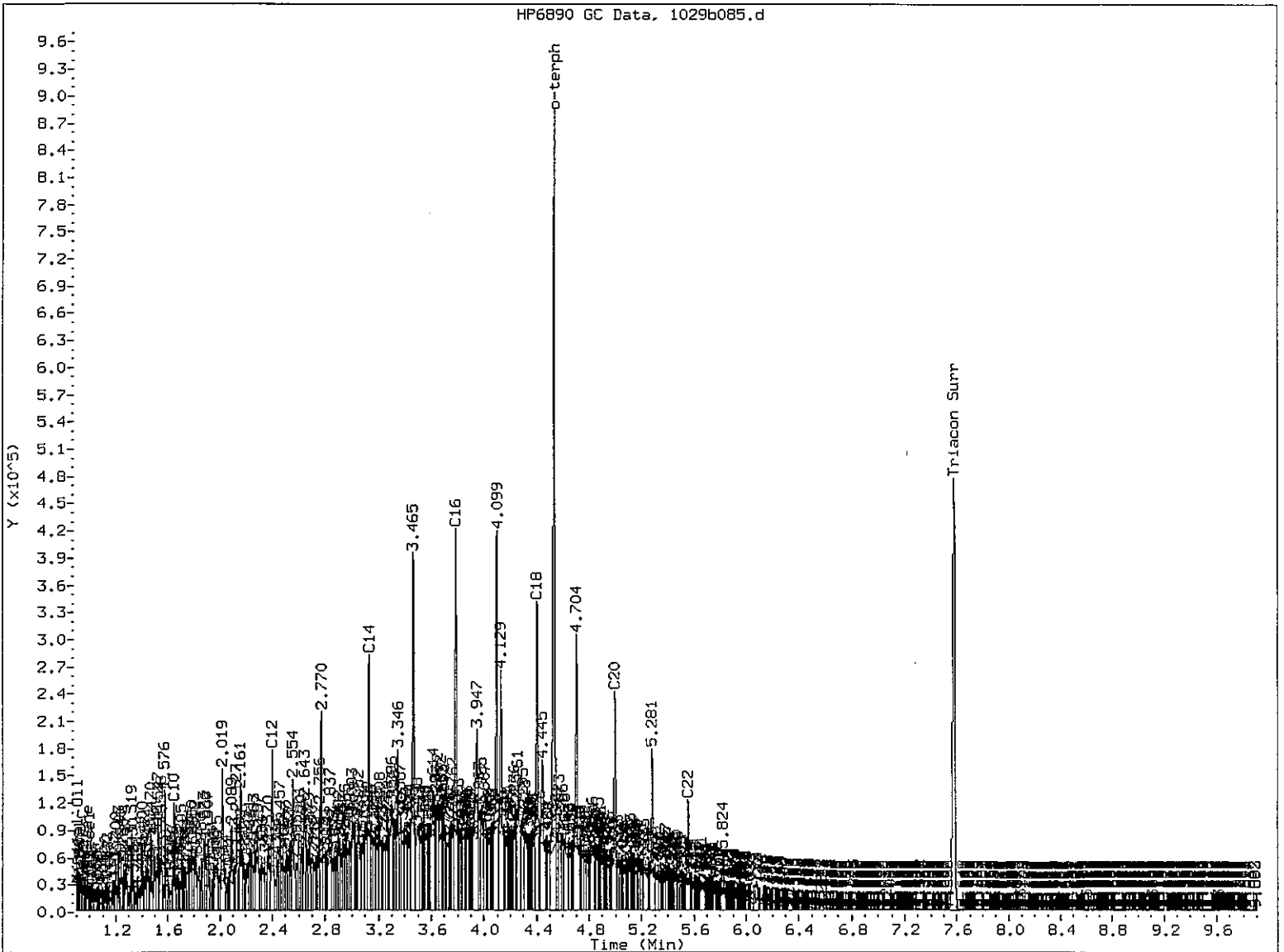
Column diameter: 0.25

Page 1



TT35.00057

HP6890 GC Data, 1029b085.d



MANUAL INTEGRATION

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

5. Other _____

Analyst: *[Signature]*

Date: *10/1/11*

Data File: /chem3/fid3b.i/20111029b.b/1029b088.d

Date: 30-OCT-2011 18:49

Client ID:

Sample Info: TT35A

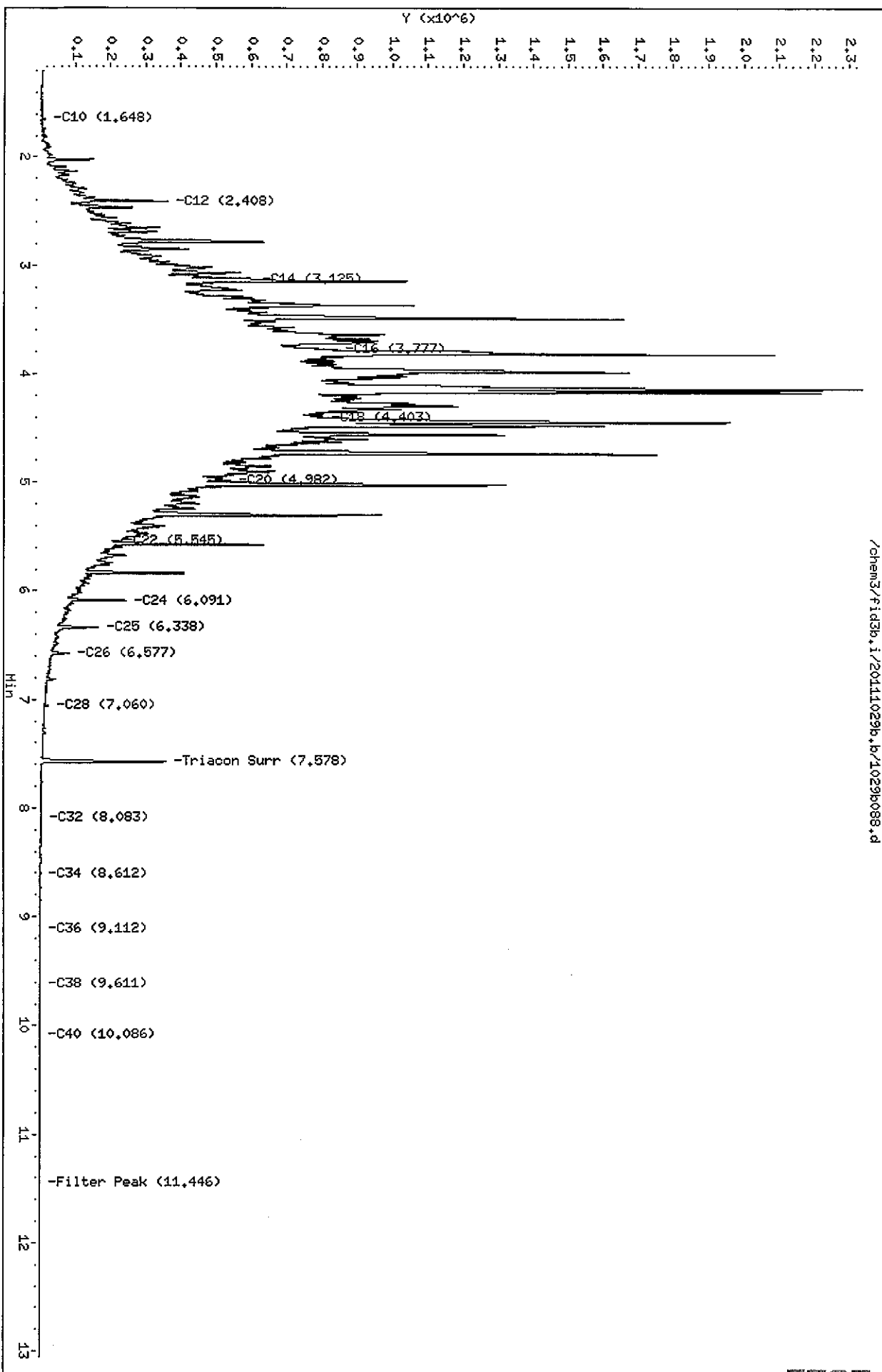
Column phase: RTX-1

Instrument: fid3b.i

Operator: PC

Column diameter: 0.25

/chem3/fid3b.i/20111029b.b/1029b088.d



Data File: /chem3/fid3b.i/20111031.b/1031b013.d

Date: 31-OCT-2011 20:44

Client ID:

Sample Info: TT350,20

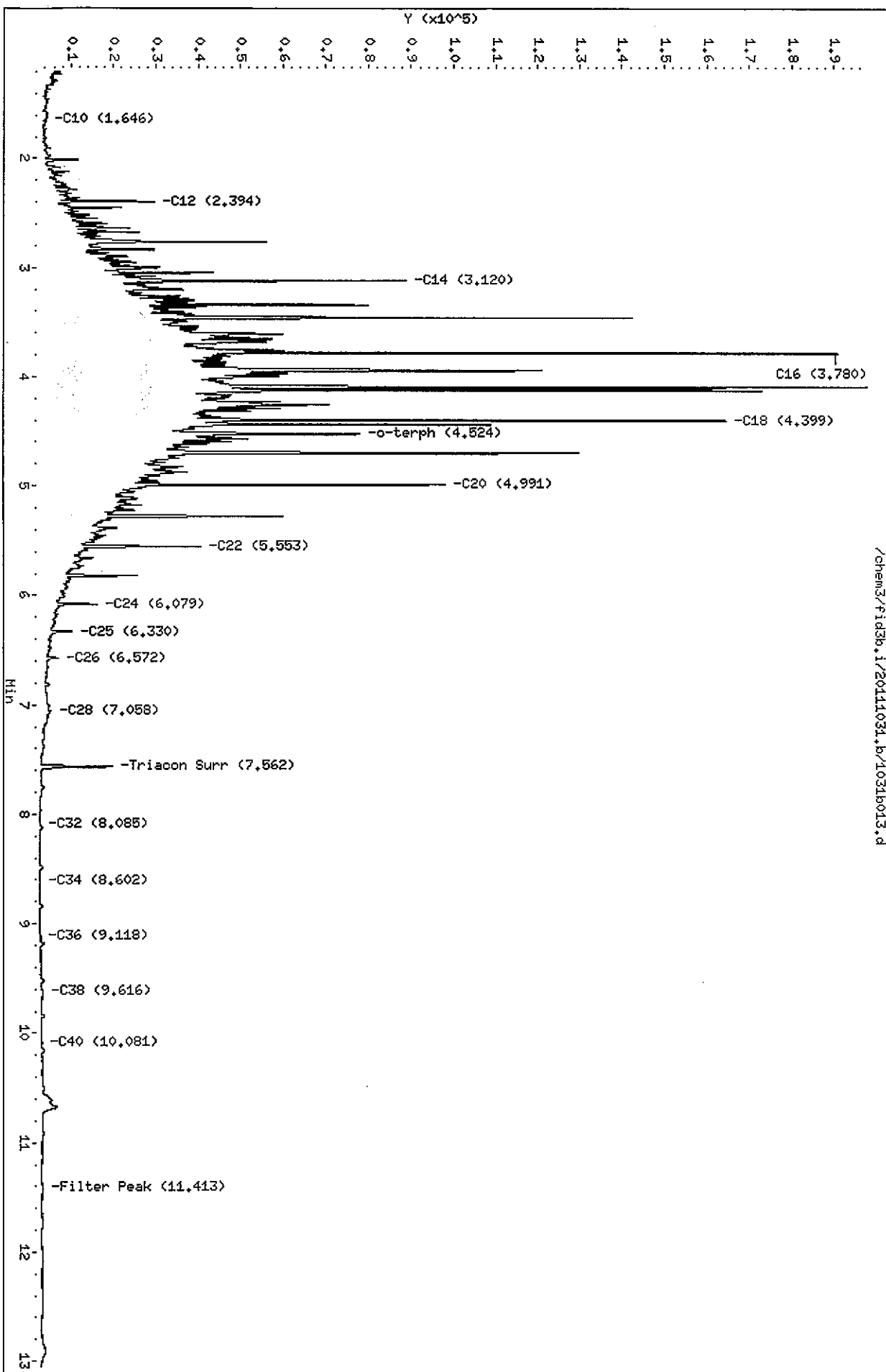
Column phase: RTX-1

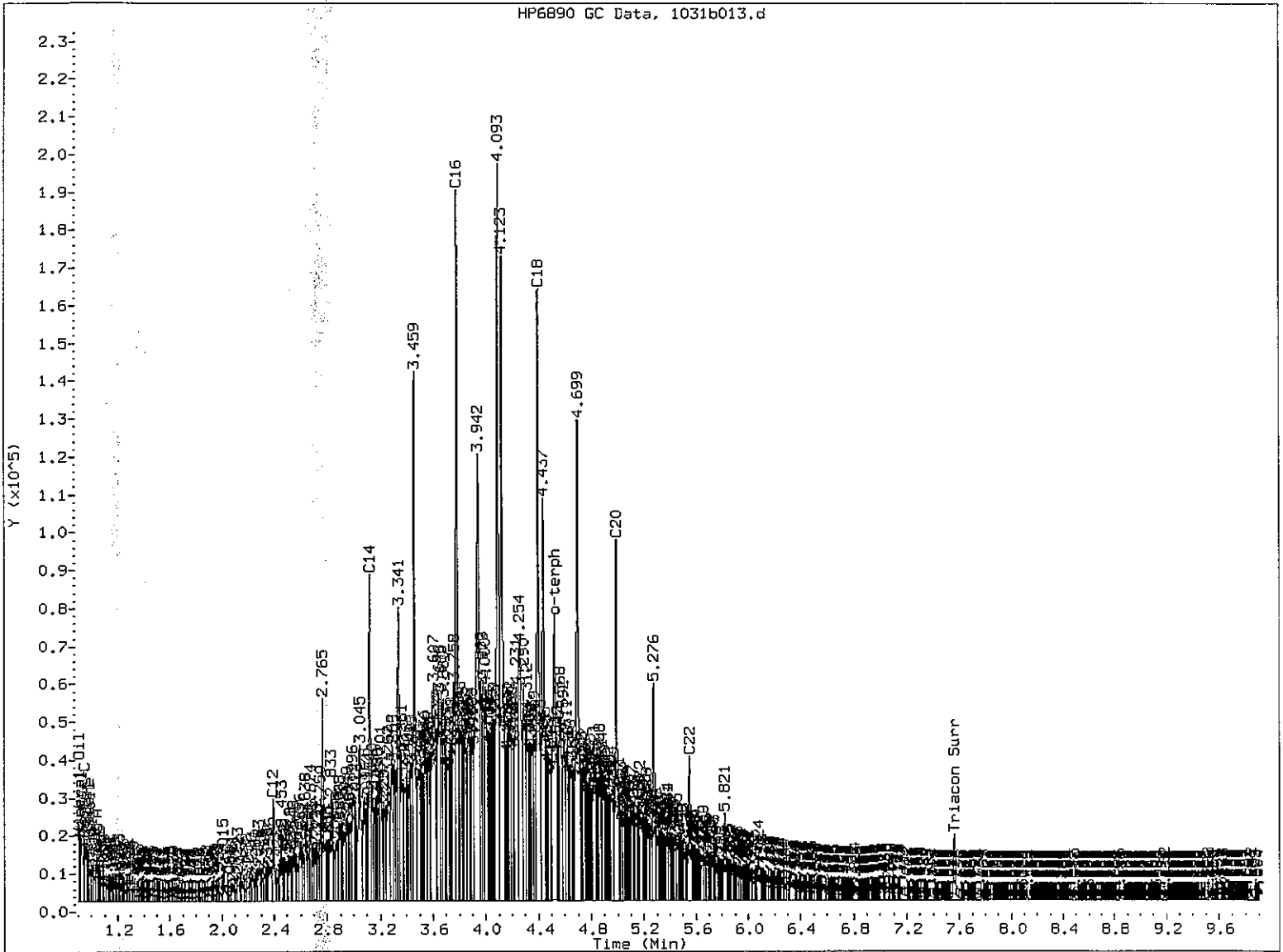
Instrument: fid3b.i

Operator: MS

Column diameter: 0.25

/chem3/fid3b.i/20111031.b/1031b013.d





MANUAL INTEGRATION

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: *[Signature]*

Date: *8/1/11*



Analytical Resources, Incorporated
Analytical Chemists and Consultants

16 November 2011

Dean Malte
Kennedy Jenks Consultants
32001 32nd Ave S., Suite 100
Federal Way, WA 98001

RE: Client Project: Ecology Cornet Bay
ARI Job Nos: TW56, TW57, TW58, TW59

Dear Dean:


Please find enclosed the original Chain-of-Custody (COC) records and the final results for the samples from the project referenced above. Eight water samples and twenty-four soil samples were received on November 11, 2011. The samples were analyzed for BETX/NWTPH-G and Acid/Silica Cleaned NWTPH-Dx as requested.

There were no analytical complications noted.

An electronic copy of this report and all supporting raw data will be kept on file at ARI. Should you have any questions regarding these results, please feel free to call me at any time.

Sincerely,

ANALYTICAL RESOURCES, INC.


Mark D. Harris
Project Manager
206/695-6210
markh@arilabs.com

Enclosures

cc: files TW56, TW57, TW58, TW59

MDH/mdh



Cooler Receipt Form

ARI Client: Kennedy Jones
 COC No(s): _____ (NA)
 Assigned ARI Job No: TW56

Project Name: Ecology Cornet Bay
 Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____
 Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)..... 1.4 2.9 5.9

If cooler temperature is out of compliance fill out form 00070F

Cooler Accepted by: JS Date: 11-11-11 Time: 1400 Temp Gun ID#: 90241619

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

Were all bottles sealed in individual plastic bags? YES NO

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? ~~YES~~ YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: _____ NA

Was Sample Split by ARI: NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: Jm Date: 11/11/11 Time: 1440

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: JS Date: 11-11-11

B47 - RGW 2" pb
B46 - RGW 1" pb
B55 - RGW vials not labeled

			Small → "sm"
			Peabubbles → "pb"
			Large → "lg"
			Headspace → "hs"

Sample ID Cross Reference Report



ARI Job No: TW56
Client: Kennedy Jenks Consultants
Project Event: 1196012*00
Project Name: Ecology Cornet Bay

Sample ID	ARI Lab ID	ARI LIMS ID	Matrix	Sample Date/Time	VTSR
1. KJ-B47-RGW	TW56A	11-26179	Groundwater	11/10/11 09:40	11/11/11 14:00
2. KJ-B46-RGW	TW56B	11-26180	Groundwater	11/10/11 10:25	11/11/11 14:00
3. KJ-B48-RGW	TW56C	11-26181	Groundwater	11/10/11 12:05	11/11/11 14:00
4. KJ-B53-RGW	TW56D	11-26182	Groundwater	11/10/11 14:45	11/11/11 14:00
5. KJ-B55-RGW	TW56E	11-26183	Groundwater	11/10/11 15:30	11/11/11 14:00

Printed 11/11/11



Cooler Receipt Form

ARI Client: Kennedy Jenks
 COC No(s): _____ (NA)
 Assigned ARI Job No: TW57

Project Name: Ecology Coraet Bay
 Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____
 Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler? YES (NO)
 Were custody papers included with the cooler? YES (NO)
 Were custody papers properly filled out (ink, signed, etc.) YES (NO)
 Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry) 1.4 2.9 5.9
 If cooler temperature is out of compliance fill out form 00070F
 Cooler Accepted by: TS Date: 11-11-11 Time: 1400 Temp Gun ID#: 90241619

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES (NO)
 What kind of packing material was used? ... Bubble Wrap Wet Ice Ge Packs Baggies Foam Block Paper Other:
 Was sufficient ice used (if appropriate)? NA YES (NO)
 Were all bottles sealed in individual plastic bags? YES (NO)
 Did all bottles arrive in good condition (unbroken)? YES (NO)
 Were all bottle labels complete and legible? YES (NO)
 Did the number of containers listed on COC match with the number of containers received? YES (NO)
 Did all bottle labels and tags agree with custody papers? YES (NO)
 Were all bottles used correct for the requested analyses? YES (NO)
 Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)... (NA) YES (NO)
 Were all VOC vials free of air bubbles? (NA) YES (NO)
 Was sufficient amount of sample sent in each bottle? YES (NO)
 Date VOC Trip Blank was made at ARI: (NA)
 Was Sample Split by ARI: (NA) YES Date/Time: _____ Equipment: _____ Split by: _____
 Samples Logged by: JM Date: 11/11/11 Time: 1440

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

MW 10 has 1 uoa and 1 amber labeled MW 11 but times match

By: TS Date: 11-11-11

			Small → "sm"
			Peabubbles → "pb"
			Large → "lg"
			Headspace → "hs"

Sample ID Cross Reference Report



ARI Job No: TW57
Client: Kennedy Jenks Consultants
Project Event: 1196012*00
Project Name: Ecology Cornet Bay

Sample ID	ARI Lab ID	ARI LIMS ID	Matrix	Sample Date/Time	VTSR
1. MW-8	TW57A	11-26184	Water	11/11/11 09:00	11/11/11 14:00
2. MW-10	TW57B	11-26185	Water	11/11/11 10:05	11/11/11 14:00
3. MW-9	TW57C	11-26186	Water	11/11/11 11:00	11/11/11 14:00

Printed 11/11/11



Cooler Receipt Form

ARI Client: Kennedy Jenks
 COC No(s): _____ (NA)
 Assigned ARI Job No: TW58

Project Name: Ecology Carnot Bay
 Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____
 Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry) 1.4 2.9 5.9

If cooler temperature is out of compliance fill out form 00070F

Cooler Accepted by: JS Date: 11-17-11 Time: 1400 Temp Gun ID#: 90241619

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

Were all bottles sealed in individual plastic bags? YES NO

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)... (NA) YES NO

Were all VOC vials free of air bubbles? (NA) YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: (NA) _____

Was Sample Split by ARI: (NA) YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: JS Date: 11-17-11 Time: 1540

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC
<u>KJB 20-14</u>	<u>KJ-B 65 14</u>		

Additional Notes, Discrepancies, & Resolutions:

By: JK Date: 11-17-11

			Small → "sm"
			Peabubbles → "pb"
			Large → "lg"
			Headspace → "hs"

Sample ID Cross Reference Report



ARI Job No: TW58
Client: Kennedy Jenks Consultants
Project Event: 1196012*00
Project Name: Ecology Cornet Bay

Sample ID	ARI Lab ID	ARI LIMS ID	Matrix	Sample Date/Time	VTSR
1. KJ-B59-2	TW58A	11-26187	Soil	11/11/11 08:50	11/11/11 14:00
2. KJ-B59-9	TW58B	11-26188	Soil	11/11/11 09:00	11/11/11 14:00
3. KJ-B60-14	TW58C	11-26189	Soil	11/11/11 09:40	11/11/11 14:00
4. KJ-B60-20	TW58D	11-26190	Soil	11/11/11 10:00	11/11/11 14:00

Printed 11/11/11

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: TWS9 Turn-around Requested: RUSH (72-Hr)

ARI Client Company: Kennedy/Jenks Phone: 253-835-6400

Client Contact: Dean McIke

Client Project Name: Ecology Council Bcy

Client Project #: 1196012#00 Samplers: DKM

Page: 2 of 3

Date: 11/11/11 Ice Present?

No. of Coolers: 3 Cooler Temps: 1, 45.9

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)



Sample ID	Date	Time	Matrix	No. Containers	Analysis Requested				Notes/Comments
					NMPH-DX w/s/line gel	NMPH-GX w/IBTEX			
K5-B49-13	11/10/11	1200	S-1	3	X	X			
K5-B50-10		1220		3	X	X			
K5-B51-9		1250		3	X	X			
K5-B52-5		1310		3	X	X			
K5-B53-3		1400		3	X	X			
K5-B54-6		1440		3	X	X			
K5-B55-3		1510		3	X	X			
K5-B56-3	11/11/11	730		3	X	X			
K5-B57-5		750		3	X	X			
K5-B58-3		810		3	X	X			
Comments/Special Instructions	Relinquished by: (Signature) <u>[Signature]</u>				Received by: (Signature) <u>[Signature]</u>				
	Printed Name: <u>Dean McIke</u>				Printed Name: <u>Taylor Street</u>				
	Company: <u>KSC</u>				Company: <u>ARI</u>				
	Date & Time: <u>11/11/11 1400</u>				Date & Time: <u>11/11/11 1400</u>				

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

Chain of Custody Record & Laboratory Analysis Request

50.1

ARI Assigned Number: TWS9 Turn-around Requested: RUSH (92-H6)
 ARI Client Company: Kennedy Benks Phone: 253 835 6400
 Client Contact: Dean M. Ite
 Client Project Name: Ecology Cornet Rcy
 Client Project #: 1196012#00 Samplers: DKM

Analytical Resources, Incorporated
 Analytical Chemists and Consultants
 4611 South 134th Place, Suite 100
 Tukwila, WA 98168
 206-695-6200 206-695-6201 (fax)



Sample ID	Date	Time	Matrix	No. Containers	Analysis Requested			Notes/Comments
					WTRPH-DX w/51.00 Gal	WTRPH-GX w/RTX	Ice Present?	
K5-MW8-7	11/9/11	1100	50.1	3	X	X		
K5-MW8-10		1110		3	X	X		Hold
K5-MW9-5		1240		3	X	X		
K5-MW10-6		1450		3	X	X		
K5-B45-7	11/10/11	950		3	X	X		
K5-B45-15		810		3	X	X		
K5-B46-11		830		3	X	X		
K5-B46-15		840		3	X	X		
K5-B47-13		920		3	X	X		
K5-B48-3		1140		3	X	X		

Comments/Special Instructions: _____

Relinquished by: (Signature) _____ (Printed Name: Dean M. Ite) Company: KSC Date & Time: 11/11/11 1400

Received by: (Signature) _____ (Printed Name: Jay M. Strickland) Company: ARI Date & Time: 11/11/11 1400

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.



Cooler Receipt Form

ARI Client: Kennedy Jenks

Project Name: Ecology Carnet Bay

COC No(s): _____ (NA)

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: TW59

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)..... 14 29 5.9

If cooler temperature is out of compliance fill out form 00070F

Cooler Accepted by: JS Date: 11-11-11 Time: 1400 Temp Gun ID#: 90241619

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

Were all bottles sealed in individual plastic bags? YES NO

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)... (NA) YES NO

Were all VOC vials free of air bubbles? (NA) YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI..... (NA)

Was Sample Split by ARI: (NA) YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: JS Date: 11-11-11 Time: 1555

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____

			Small → "sm"
			Peabubbles → "pb"
			Large → "lg"
			Headspace → "hs"

TW56 : 00013

Sample ID Cross Reference Report



ARI Job No: TW59
Client: Kennedy Jenks Consultants
Project Event: 1196012*00
Project Name: Ecology Cornet Bay

Sample ID	ARI Lab ID	ARI LIMS ID	Matrix	Sample Date/Time	VTSR
1. KJ-MW8-7	TW59A	11-26191	Soil	11/09/11 11:00	11/11/11 14:00
2. KJ-MW8-10	TW59B	11-26192	Soil	11/09/11 11:10	11/11/11 14:00
3. KJ-MW9-5	TW59C	11-26193	Soil	11/09/11 12:40	11/11/11 14:00
4. KJ-MW10-6	TW59D	11-26194	Soil	11/09/11 14:50	11/11/11 14:00
5. KJ-B45-7	TW59E	11-26195	Soil	11/10/11 07:50	11/11/11 14:00
6. KJ-B45-15	TW59F	11-26196	Soil	11/10/11 08:10	11/11/11 14:00
7. KJ-B46-11	TW59G	11-26197	Soil	11/10/11 08:30	11/11/11 14:00
8. KJ-B46-15	TW59H	11-26198	Soil	11/10/11 08:40	11/11/11 14:00
9. KJ-B47-13	TW59I	11-26199	Soil	11/10/11 09:20	11/11/11 14:00
10. KJ-B48-3	TW59J	11-26200	Soil	11/10/11 11:40	11/11/11 14:00
11. KJ-B49-13	TW59K	11-26201	Soil	11/10/11 12:00	11/11/11 14:00
12. KJ-B50-10	TW59L	11-26202	Soil	11/10/11 12:20	11/11/11 14:00
13. KJ-B51-7	TW59M	11-26203	Soil	11/10/11 12:50	11/11/11 14:00
14. KJ-B52-5	TW59N	11-26204	Soil	11/10/11 13:10	11/11/11 14:00
15. KJ-B53-3	TW59O	11-26205	Soil	11/10/11 14:00	11/11/11 14:00
16. KJ-B54-6	TW59P	11-26206	Soil	11/10/11 14:40	11/11/11 14:00
17. KJ-B55-3	TW59Q	11-26207	Soil	11/10/11 15:10	11/11/11 14:00
18. KJ-B56-3	TW59R	11-26208	Soil	11/11/11 07:30	11/11/11 14:00
19. KJ-B57-5	TW59S	11-26209	Soil	11/11/11 07:50	11/11/11 14:00
20. KJ-B58-3	TW59T	11-26210	Soil	11/11/11 08:10	11/11/11 14:00

Printed 11/11/11



Data Reporting Qualifiers

Effective 2/14/2011

Inorganic Data

- U Indicates that the target analyte was not detected at the reported concentration
- * Duplicate RPD is not within established control limits
- B Reported value is less than the CRDL but \geq the Reporting Limit
- N Matrix Spike recovery not within established control limits
- NA Not Applicable, analyte not spiked
- H The natural concentration of the spiked element is so much greater than the concentration spiked that an accurate determination of spike recovery is not possible
- L Analyte concentration is ≤ 5 times the Reporting Limit and the replicate control limit defaults to ± 1 RL instead of the normal 20% RPD

Organic Data

- U Indicates that the target analyte was not detected at the reported concentration
- * Flagged value is not within established control limits
- B Analyte detected in an associated Method Blank at a concentration greater than one-half of ARI's Reporting Limit or 5% of the regulatory limit or 5% of the analyte concentration in the sample.
- J Estimated concentration when the value is less than ARI's established reporting limits
- D The spiked compound was not detected due to sample extract dilution
- E Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.
- Q Indicates a detected analyte with an initial or continuing calibration that does not meet established acceptance criteria ($< 20\%$ RSD, $< 20\%$ Drift or minimum RRF).



- S Indicates an analyte response that has saturated the detector. The calculated concentration is not valid; a dilution is required to obtain valid quantification of the analyte
- NA The flagged analyte was not analyzed for
- NR Spiked compound recovery is not reported due to chromatographic interference
- NS The flagged analyte was not spiked into the sample
- M Estimated value for an analyte detected and confirmed by an analyst but with low spectral match parameters. This flag is used only for GC-MS analyses
- M2 The sample contains PCB congeners that do not match any standard Aroclor pattern. The PCBs are identified and quantified as the Aroclor whose pattern most closely matches that of the sample. The reported value is an estimate.
- N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification"
- Y The analyte is not detected at or above the reported concentration. The reporting limit is raised due to chromatographic interference. The Y flag is equivalent to the U flag with a raised reporting limit.
- EMPC Estimated Maximum Possible Concentration (EMPC) defined in EPA Statement of Work DLM02.2 as a value "calculated for 2,3,7,8-substituted isomers for which the quantitation and /or confirmation ion(s) has signal to noise in excess of 2.5, but does not meet identification criteria" **(Dioxin/Furan analysis only)**
- C The analyte was positively identified on only one of two chromatographic columns. Chromatographic interference prevented a positive identification on the second column
- P The analyte was detected on both chromatographic columns but the quantified values differ by $\geq 40\%$ RPD with no obvious chromatographic interference
- X Analyte signal includes interference from polychlorinated diphenyl ethers. **(Dioxin/Furan analysis only)**
- Z Analyte signal includes interference from the sample matrix or perfluorokerosene ions. **(Dioxin/Furan analysis only)**



Geotechnical Data

- A The total of all fines fractions. This flag is used to report total fines when only sieve analysis is requested and balances total grain size with sample weight.
- F Samples were frozen prior to particle size determination
- SM Sample matrix was not appropriate for the requested analysis. This normally refers to samples contaminated with an organic product that interferes with the sieving process and/or moisture content, porosity and saturation calculations
- SS Sample did not contain the proportion of "fines" required to perform the pipette portion of the grain size analysis
- W Weight of sample in some pipette aliquots was below the level required for accurate weighting



Sample ID: KJ-B47-RGW
 SAMPLE

Lab Sample ID: TW56A
 LIMS ID: 11-26179
 Matrix: Groundwater
 Data Release Authorized: *AB*
 Reported: 11/15/11

QC Report No: TW56-Kennedy Jenks Consultants
 Project: Ecology Cornet Bay
 Event: 1196012*00
 Date Sampled: 11/10/11
 Date Received: 11/11/11

Date Analyzed: 11/14/11 13:51
 Instrument/Analyst: PID1/MH

Purge Volume: 5.0 mL
 Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
71-43-2	Benzene	1.0	1,300 E
108-88-3	Toluene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	3.3
179601-23-1	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Gasoline Range Hydrocarbons 0.25 < 0.25 U GAS ID ---

BETX Surrogate Recovery

Trifluorotoluene	101%
Bromobenzene	102%


Gasoline Surrogate Recovery

Trifluorotoluene	98.2%
Bromobenzene	100%

BETX values reported in µg/L (ppb)
 Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.
 Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Sample ID: KJ-B47-RGW
 DILUTION

Lab Sample ID: TW56A
 LIMS ID: 11-26179
 Matrix: Groundwater
 Data Release Authorized: 
 Reported: 11/15/11

QC Report No: TW56-Kennedy Jenks Consultants
 Project: Ecology Cornet Bay
 Event: 1196012*00
 Date Sampled: 11/10/11
 Date Received: 11/11/11

Date Analyzed: 11/15/11 09:22
 Instrument/Analyst: PID1/MH

Purge Volume: 5.0 mL
 Dilution Factor: 10.0

CAS Number	Analyte	RL	Result
71-43-2	Benzene	10	1,500
108-88-3	Toluene	10	< 10 U
100-41-4	Ethylbenzene	10	< 10 U
179601-23-1	m,p-Xylene	10	< 10 U
95-47-6	o-Xylene	10	< 10 U

Gasoline Range Hydrocarbons	2.5	< 2.5 U	GAS ID ---
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BETX Surrogate Recovery

Trifluorotoluene	102%
Bromobenzene	98.6%

Gasoline Surrogate Recovery

Trifluorotoluene	97.5%
Bromobenzene	96.3%

BETX values reported in µg/L (ppb)
 Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.
 Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: KJ-B46-RGW
SAMPLE

Lab Sample ID: TW56B

LIMS ID: 11-26180

Matrix: Groundwater

Data Release Authorized: *[Signature]*

Reported: 11/15/11

QC Report No: TW56-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Event: 1196012*00

Date Sampled: 11/10/11

Date Received: 11/11/11

Date Analyzed: 11/14/11 14:20

Instrument/Analyst: PID1/MH

Purge Volume: 5.0 mL

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
71-43-2	Benzene	1.0	330 E
108-88-3	Toluene	1.0	1.4
100-41-4	Ethylbenzene	1.0	2.0
179601-23-1	m,p-Xylene	1.0	1.4
95-47-6	o-Xylene	1.0	2.4

Gasoline Range Hydrocarbons	0.25	0.27	GAS ID GRO
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BETX Surrogate Recovery

Trifluorotoluene	101%
Bromobenzene	98.3%

Gasoline Surrogate Recovery

Trifluorotoluene	98.1%
Bromobenzene	96.6%

BETX values reported in µg/L (ppb)
Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: KJ-B46-RGW

DILUTION

Lab Sample ID: TW56B

LIMS ID: 11-26180

Matrix: Groundwater

Data Release Authorized: 

Reported: 11/15/11

QC Report No: TW56-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Event: 1196012*00

Date Sampled: 11/10/11

Date Received: 11/11/11

Date Analyzed: 11/15/11 09:52

Instrument/Analyst: PID1/MH

Purge Volume: 5.0 mL

Dilution Factor: 5.00

CAS Number	Analyte	RL	Result
71-43-2	Benzene	5.0	380
108-88-3	Toluene	5.0	< 5.0 U
100-41-4	Ethylbenzene	5.0	< 5.0 U
179601-23-1	m,p-Xylene	5.0	< 5.0 U
95-47-6	o-Xylene	5.0	< 5.0 U

Gasoline Range Hydrocarbons	1.2	< 1.2 U	GAS ID ---
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BETX Surrogate Recovery

Trifluorotoluene	96.5%
Bromobenzene	94.7%

Gasoline Surrogate Recovery

Trifluorotoluene	93.8%
Bromobenzene	92.4%

BETX values reported in µg/L (ppb)
Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: KJ-B48-RGW
SAMPLE

Lab Sample ID: TW56C

LIMS ID: 11-26181

Matrix: Groundwater

Data Release Authorized: *AB*

Reported: 11/15/11

QC Report No: TW56-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Event: 1196012*00

Date Sampled: 11/10/11

Date Received: 11/11/11

Date Analyzed: 11/14/11 14:50

Instrument/Analyst: PID1/MH

Purge Volume: 5.0 mL

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
71-43-2	Benzene	1.0	24
108-88-3	Toluene	1.0	12
100-41-4	Ethylbenzene	1.0	69
179601-23-1	m,p-Xylene	1.0	200
95-47-6	o-Xylene	1.0	36

Gasoline Range Hydrocarbons	0.25	2.5	GAS ID GAS/GRO
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BETX Surrogate Recovery

Trifluorotoluene	103%
Bromobenzene	99.9%

Gasoline Surrogate Recovery

Trifluorotoluene	100%
Bromobenzene	96.5%

BETX values reported in µg/L (ppb)
Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET
 BETX by Method SW8021BMod
 TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: KJ-B53-RGW
 SAMPLE

Lab Sample ID: TW56D
 LIMS ID: 11-26182
 Matrix: Groundwater
 Data Release Authorized: *A*
 Reported: 11/15/11

QC Report No: TW56-Kennedy Jenks Consultants
 Project: Ecology Cornet Bay
 Event: 1196012*00
 Date Sampled: 11/10/11
 Date Received: 11/11/11

Date Analyzed: 11/14/11 15:19
 Instrument/Analyst: PID1/MH

Purge Volume: 5.0 mL
 Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
71-43-2	Benzene	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
179601-23-1	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

	RL	Result	GAS ID
Gasoline Range Hydrocarbons	0.25	< 0.25 U	---

BETX Surrogate Recovery

Trifluorotoluene	99.2%
Bromobenzene	97.6%

Gasoline Surrogate Recovery

Trifluorotoluene	97.7%
Bromobenzene	97.1%

BETX values reported in µg/L (ppb)
 Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.
 Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: KJ-B55-RGW

SAMPLE

Lab Sample ID: TW56E

LIMS ID: 11-26183

Matrix: Groundwater

Data Release Authorized: *[Signature]*

Reported: 11/15/11

QC Report No: TW56-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Event: 1196012*00

Date Sampled: 11/10/11

Date Received: 11/11/11

Date Analyzed: 11/15/11 10:21

Instrument/Analyst: PID1/MH

Purge Volume: 5.0 mL

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
71-43-2	Benzene	1.0	12
108-88-3	Toluene	1.0	4.1
100-41-4	Ethylbenzene	1.0	32
179601-23-1	m,p-Xylene	1.0	5.0
95-47-6	o-Xylene	1.0	< 1.0 U

Gasoline Range Hydrocarbons	0.25	3.1	GAS ID GAS/GRO
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BETX Surrogate Recovery

Trifluorotoluene	105%
Bromobenzene	99.4%

Gasoline Surrogate Recovery

Trifluorotoluene	105%
Bromobenzene	96.0%

BETX values reported in µg/L (ppb)
Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET
 BETX by Method SW8021BMod
 TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: MB-111411
 METHOD BLANK

Lab Sample ID: MB-111411
 LIMS ID: 11-26179
 Matrix: Groundwater
 Data Release Authorized: *[Signature]*
 Reported: 11/15/11

QC Report No: TW56-Kennedy Jenks Consultants
 Project: Ecology Cornet Bay
 Event: 1196012*00
 Date Sampled: NA
 Date Received: NA

Date Analyzed: 11/14/11 13:22
 Instrument/Analyst: PID1/MH

Purge Volume: 5.0 mL
 Dilution Factor: 1.00

CAS Number	Analyte	RL	Result	GAS ID
71-43-2	Benzene	1.0	< 1.0 U	
108-88-3	Toluene	1.0	< 1.0 U	
100-41-4	Ethylbenzene	1.0	< 1.0 U	
179601-23-1	m,p-Xylene	1.0	< 1.0 U	
95-47-6	o-Xylene	1.0	< 1.0 U	
	Gasoline Range Hydrocarbons	0.25	< 0.25 U	---

BETX Surrogate Recovery

Trifluorotoluene	97.4%
Bromobenzene	97.6%

Gasoline Surrogate Recovery

Trifluorotoluene	96.2%
Bromobenzene	96.8%

BETX values reported in µg/L (ppb)
 Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1


Sample ID: MB-111511

METHOD BLANK

Lab Sample ID: MB-111511

LIMS ID: 11-26183

Matrix: Groundwater

Data Release Authorized: 

Reported: 11/15/11

QC Report No: TW56-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Event: 1196012*00

Date Sampled: NA

Date Received: NA

Date Analyzed: 11/15/11 07:58

Instrument/Analyst: PID1/MH

Purge Volume: 5.0 mL

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
71-43-2	Benzene	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
179601-23-1	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Gasoline Range Hydrocarbons	0.25	< 0.25 U	GAS ID ---
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BETX Surrogate Recovery

Trifluorotoluene	96.3%
Bromobenzene	98.7%

Gasoline Surrogate Recovery

Trifluorotoluene	94.6%
Bromobenzene	96.8%

BETX values reported in µg/L (ppb)
Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET

TPHG by Method NWTPHG

Page 1 of 1


Sample ID: LCS-111411

LAB CONTROL SAMPLE

Lab Sample ID: LCS-111411

LIMS ID: 11-26179

Matrix: Groundwater

Data Release Authorized: 

Reported: 11/15/11

QC Report No: TW56-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Event: 1196012*00

Date Sampled: NA

Date Received: NA

Date Analyzed LCS: 11/14/11 12:23

LCSD: 11/14/11 12:53

Instrument/Analyst LCS: PID1/MH

LCSD: PID1/MH

Purge Volume: 5.0 mL

Dilution Factor LCS: 1.0

LCSD: 1.0

Analyte	Spike		LCS		Spike		LCSD		RPD
	LCS	Added-LCS	Recovery	LCSD	Added-LCS	Recovery	RPD		
Gasoline Range Hydrocarbons	1.05	1.00	105%	0.99	1.00	99.0%	5.9%		

Reported in mg/L (ppm)

RPD calculated using sample concentrations per SW846.

TPHG Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	105%	102%
Bromobenzene	101%	98.9%

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

Page 1 of 1

Sample ID: LCS-111411

LAB CONTROL SAMPLE

Lab Sample ID: LCS-111411

LIMS ID: 11-26179

Matrix: Groundwater

Data Release Authorized: *AB*

Reported: 11/15/11

QC Report No: TW56-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Event: 1196012*00

Date Sampled: NA

Date Received: NA

Date Analyzed LCS: 11/14/11 12:23

LCSD: 11/14/11 12:53

Instrument/Analyst LCS: PID1/MH

LCSD: PID1/MH

Purge Volume: 5.0 mL

Dilution Factor LCS: 1.0

LCSD: 1.0

Analyte	LCS			LCSD			RPD
	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	
Benzene	3.71	3.70	100%	3.65	3.70	98.6%	1.6%
Toluene	40.6	36.5	111%	40.3	36.5	110%	0.7%
Ethylbenzene	11.3	10.7	106%	11.3	10.7	106%	0.0%
m,p-Xylene	41.7	40.1	104%	41.2	40.1	103%	1.2%
o-Xylene	19.7	18.1	109%	19.6	18.1	108%	0.5%

Reported in µg/L (ppb)

RPD calculated using sample concentrations per SW846.

BETX Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	105%	103%
Bromobenzene	102%	100%

ORGANICS ANALYSIS DATA SHEET

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: LCS-111511

LAB CONTROL SAMPLE

Lab Sample ID: LCS-111511

LIMS ID: 11-26183

Matrix: Groundwater

Data Release Authorized: *AB*

Reported: 11/15/11

QC Report No: TW56-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Event: 1196012*00

Date Sampled: NA

Date Received: NA

Date Analyzed LCS: 11/15/11 06:59

LCSD: 11/15/11 07:28

Instrument/Analyst LCS: PID1/MH

LCSD: PID1/MH

Purge Volume: 5.0 mL

Dilution Factor LCS: 1.0

LCSD: 1.0

Analyte	LCS	Spike	LCS	LCS	LCS	Spike	LCS	RPD
		Added-LCS	Recovery			Added-LCS	Recovery	
Gasoline Range Hydrocarbons	1.02	1.00	102%	0.96	1.00	96.0%	6.1%	

Reported in mg/L (ppm)

RPD calculated using sample concentrations per SW846.

TPHG Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	98.4%	98.3%
Bromobenzene	95.2%	97.6%

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

Page 1 of 1

Sample ID: LCS-111511

LAB CONTROL SAMPLE

Lab Sample ID: LCS-111511

LIMS ID: 11-26183

Matrix: Groundwater

Data Release Authorized: *AB*

Reported: 11/15/11

QC Report No: TW56-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Event: 1196012*00

Date Sampled: NA

Date Received: NA

Date Analyzed LCS: 11/15/11 06:59

Purge Volume: 5.0 mL

LCSD: 11/15/11 07:28

Instrument/Analyst LCS: PID1/MH

Dilution Factor LCS: 1.0

LCSD: PID1/MH

LCSD: 1.0

Analyte	LCS	Spike		LCSD	Spike		RPD
		Added-LCS	Recovery		Added-LCSD	Recovery	
Benzene	3.58	3.70	96.8%	3.56	3.70	96.2%	0.6%
Toluene	38.8	36.5	106%	38.0	36.5	104%	2.1%
Ethylbenzene	11.0	10.7	103%	10.7	10.7	100%	2.8%
m,p-Xylene	39.8	40.1	99.3%	39.3	40.1	98.0%	1.3%
o-Xylene	19.0	18.1	105%	18.6	18.1	103%	2.1%

Reported in µg/L (ppb)

RPD calculated using sample concentrations per SW846.

BETX Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	98.5%	99.3%
Bromobenzene	97.1%	99.4%

BETX WATER SURROGATE RECOVERY SUMMARY

ARI Job: TW56
Matrix: Groundwater

QC Report No: TW56-Kennedy Jenks Consultants
Project: Ecology Cornet Bay
Event: 1196012*00

<u>Client ID</u>	<u>TFT</u>	<u>BBZ</u>	<u>TOT OUT</u>
MB-111411	97.4%	97.6%	0
LCS-111411	105%	102%	0
LCSD-111411	103%	100%	0
KJ-B47-RGW	101%	102%	0
KJ-B47-RGW DL	102%	98.6%	0
KJ-B46-RGW	101%	98.3%	0
KJ-B46-RGW DL	96.5%	94.7%	0
KJ-B48-RGW	103%	99.9%	0
KJ-B53-RGW	99.2%	97.6%	0
MB-111511	96.3%	98.7%	0
LCS-111511	98.5%	97.1%	0
LCSD-111511	99.3%	99.4%	0
KJ-B55-RGW	105%	99.4%	0

	LCS/MB LIMITS	QC LIMITS
(TFT) = Trifluorotoluene	(79-120)	(80-120)
(BBZ) = Bromobenzene	(79-120)	(80-120)

Log Number Range: 11-26179 to 11-26183

TPHG WATER SURROGATE RECOVERY SUMMARY

ARI Job: TW56
Matrix: Groundwater

QC Report No: TW56-Kennedy Jenks Consultants
Project: Ecology Cornet Bay
Event: 1196012*00

<u>Client ID</u>	<u>TFT</u>	<u>BBZ</u>	<u>TOT OUT</u>
MB-111411	96.2%	96.8%	0
LCS-111411	105%	101%	0
LCSD-111411	102%	98.9%	0
KJ-B47-RGW	98.2%	100%	0
KJ-B47-RGW DL	97.5%	96.3%	0
KJ-B46-RGW	98.1%	96.6%	0
KJ-B46-RGW DL	93.8%	92.4%	0
KJ-B48-RGW	100%	96.5%	0
KJ-B53-RGW	97.7%	97.1%	0
MB-111511	94.6%	96.8%	0
LCS-111511	98.4%	95.2%	0
LCSD-111511	98.3%	97.6%	0
KJ-B55-RGW	105%	96.0%	0

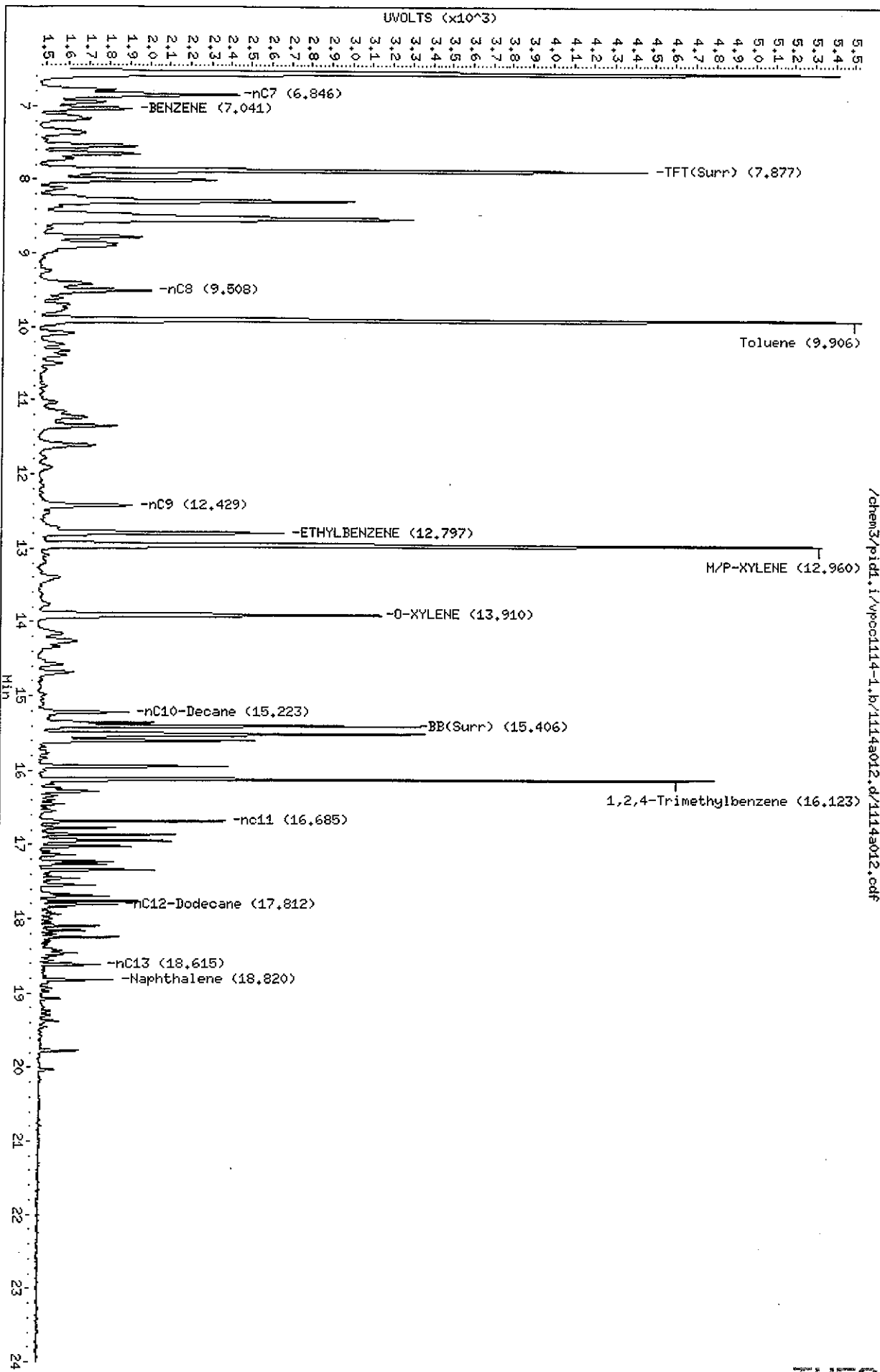
	LCS/MB LIMITS	QC LIMITS
(TFT) = Trifluorotoluene	(80-120)	(80-120)
(BBZ) = Bromobenzene	(80-120)	(80-120)

Log Number Range: 11-26179 to 11-26183

Data File: /chem3/pid1.i/vpoc1114-1.b/1114a012.d
Date: 14-NOV-2011 12:23
Client ID:
Sample Info: LCS1114

Column phase: RTX 502-2 FID

Instrument: pid1.1
Operator: MH
Column diameter: 0.18

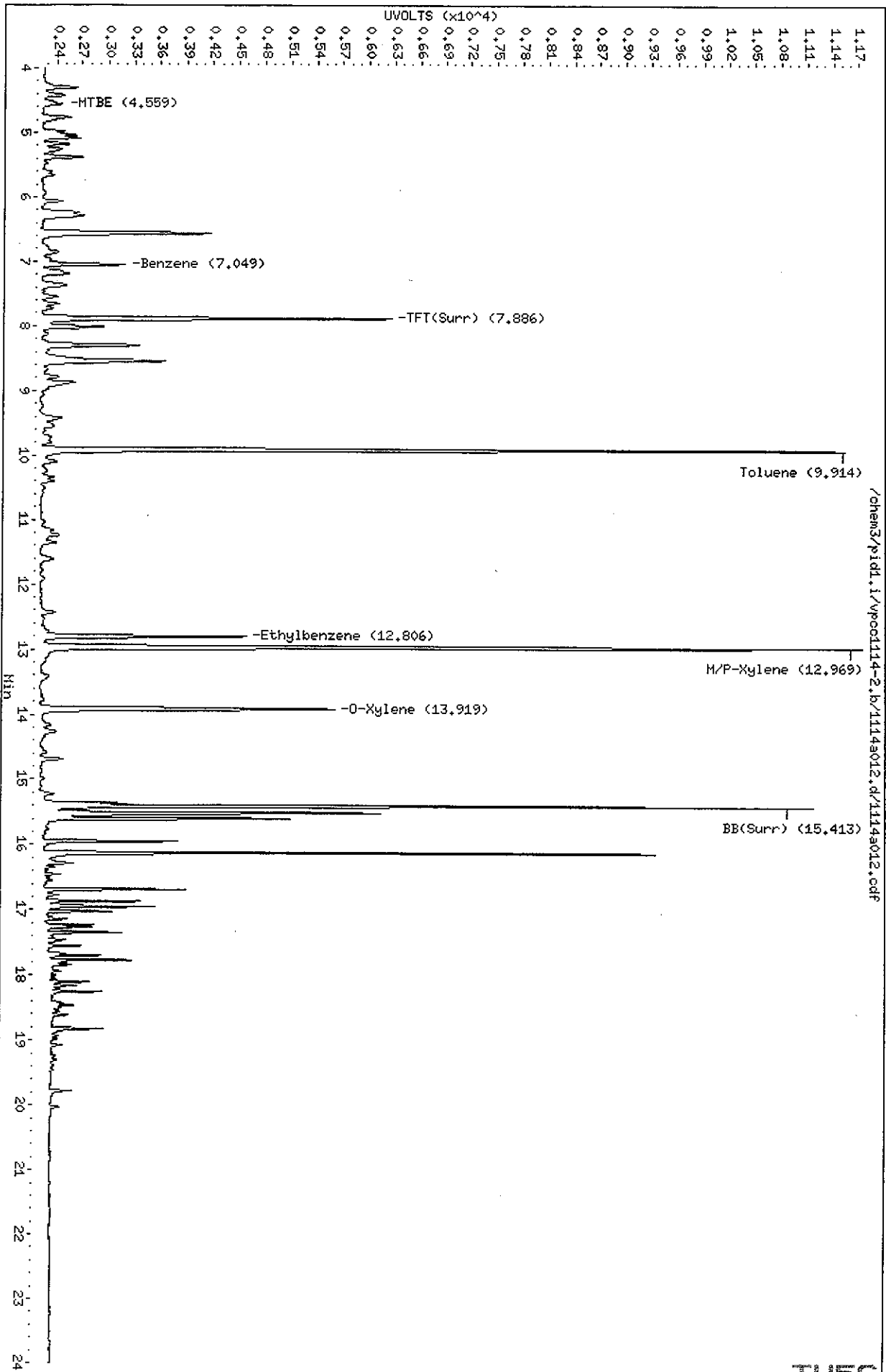


/chem3/pid1.i/vpoc1114-1.b/1114a012.d/1114a012.cdf

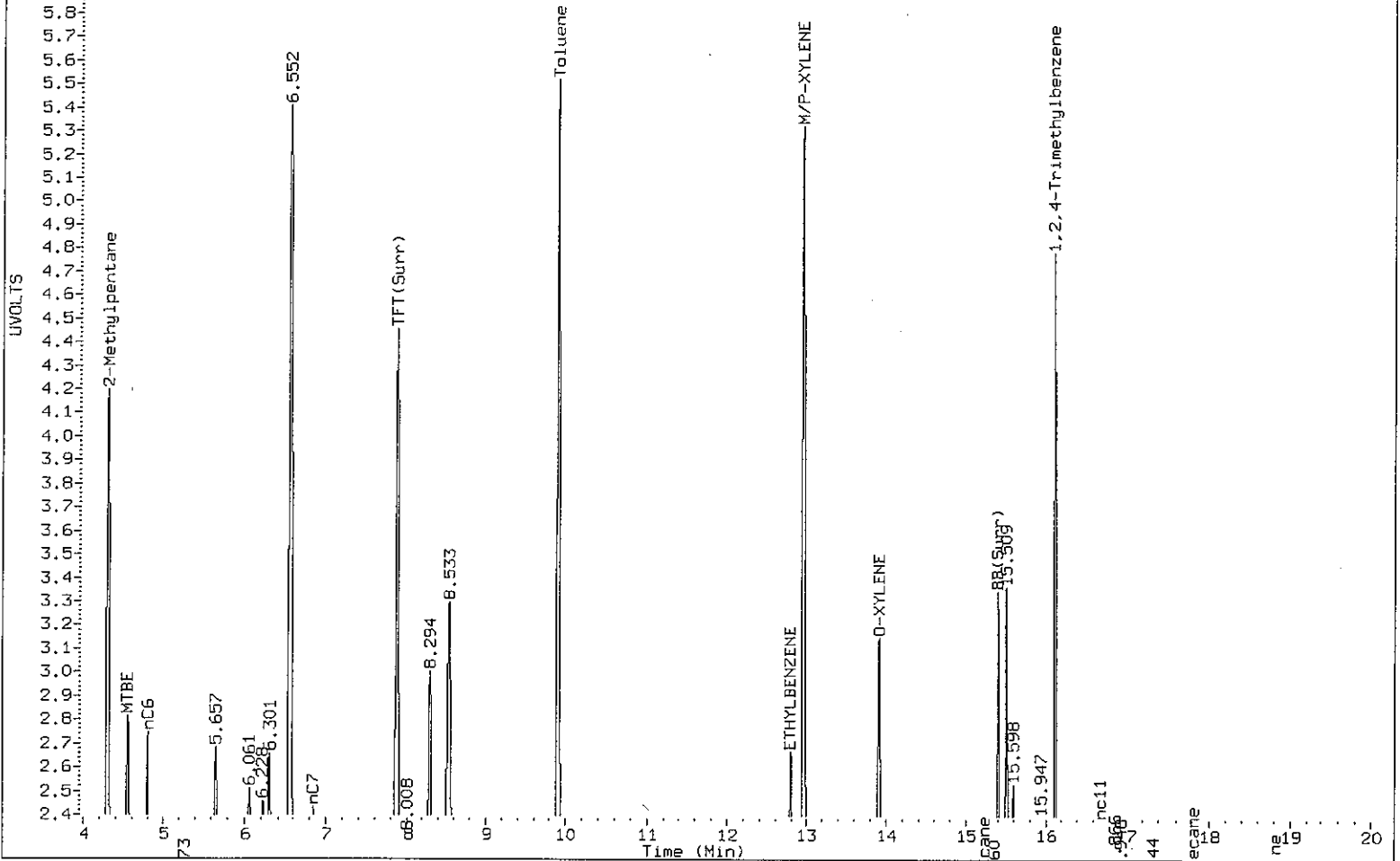
Data File: /chem3/pid1.i/vpcc1114-2.b/1114s012.d
Date: 14-NOV-2011 12:23
Client ID:
Sample Info: LCS1114

Column phase: RTX 502-2 PID

Instrument: pid1.i
Operator: NH
Column diameter: 0.18



FID LCS1114



MANUAL INTEGRATION

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: MH

Date: 11/15/11

Data File: /chem3/pid1.i/vpoc114-1.b/11149013.d

Date: 14-NOV-2011 12:53

Client ID:

Sample Info: LCSDM114

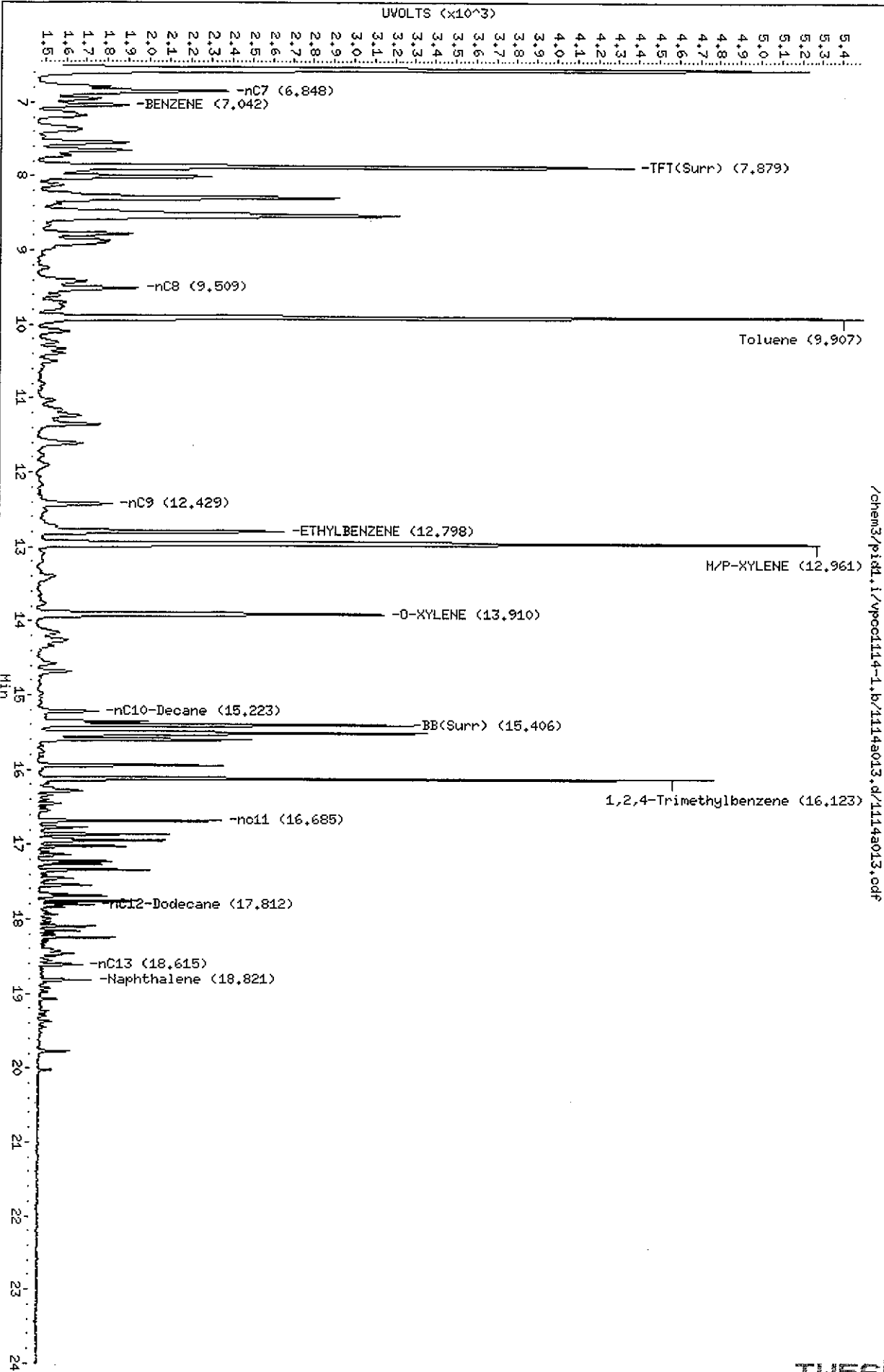
Column phase: RTX 502-2 FID

Instrument: pid1.i

Operator: HH

Column diameter: 0.18

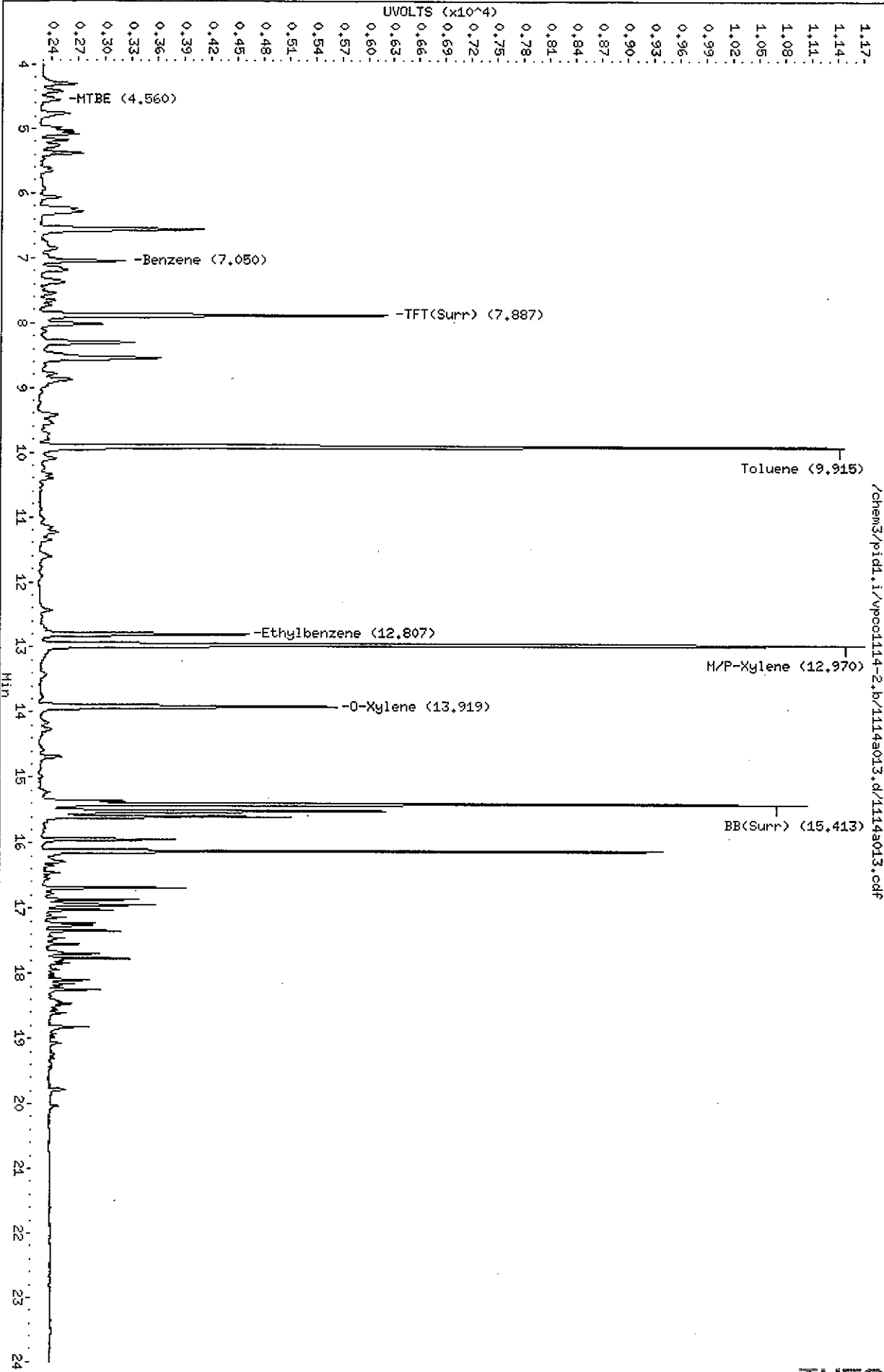
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Data File: /chem3/pid1.i/vpoc1114-2.b/1114s013.d
Date : 14-NOV-2011 12:53
Client ID:
Sample Info: LCSD1114

Column phase: RTX 502-2 PID

Instrument: pid1.i
Operator: MH
Column diameter: 0.18

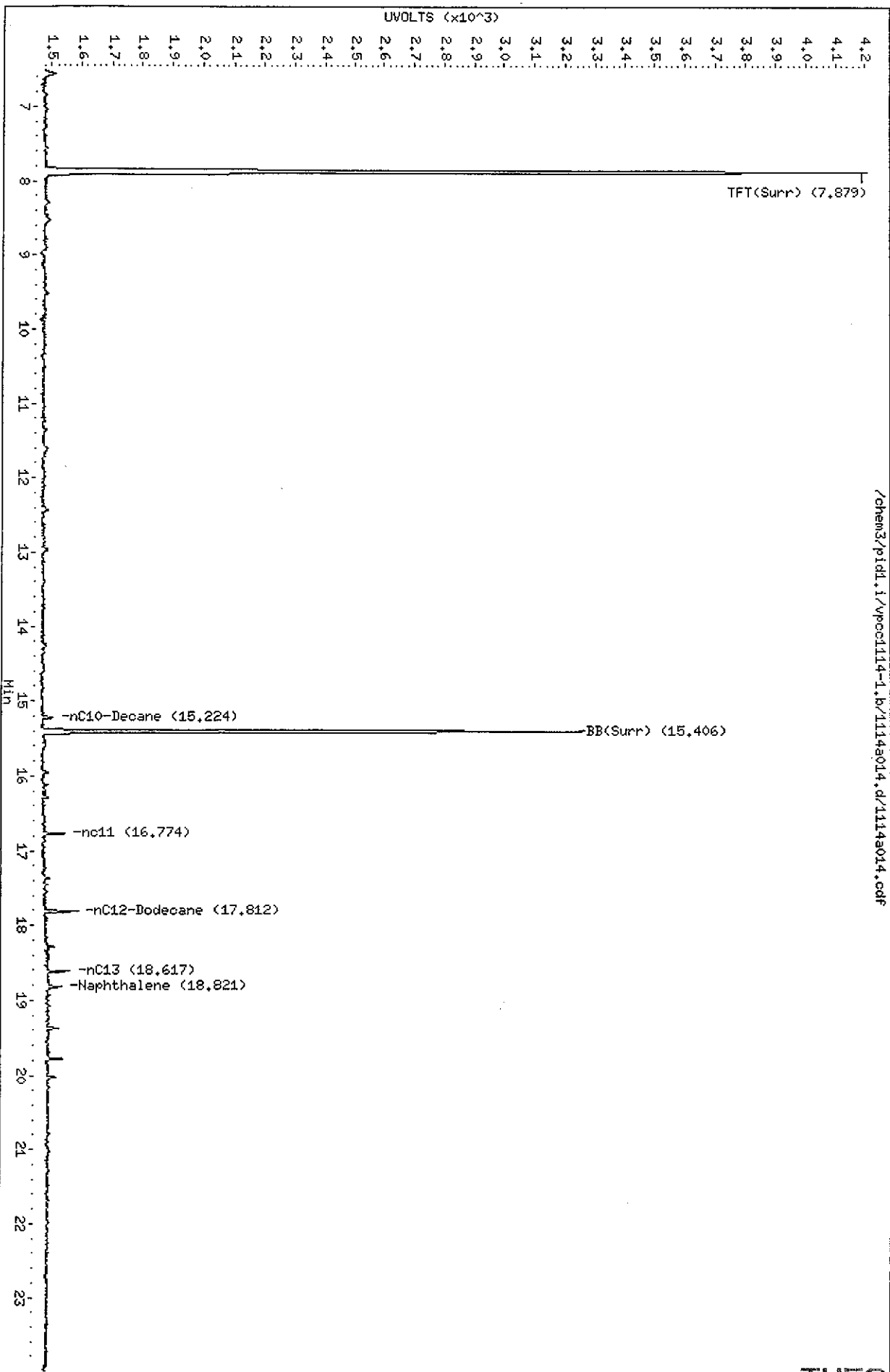


TW50 : 000000

Data File: /chem3/pid1.1/vpoc1114-1.b/1114s014.d
Date: 14-NOV-2011 13:22
Client ID:
Sample Info: MB1114

Column phase: RTX 502-2 FID

Instrument: pid1.1
Operator: HH
Column diameter: 0.18



Data File: /chem3/pid1.i/vpc01114-2.b/1114a014.d

Date: 14-NOV-2011 13:22

Client ID:

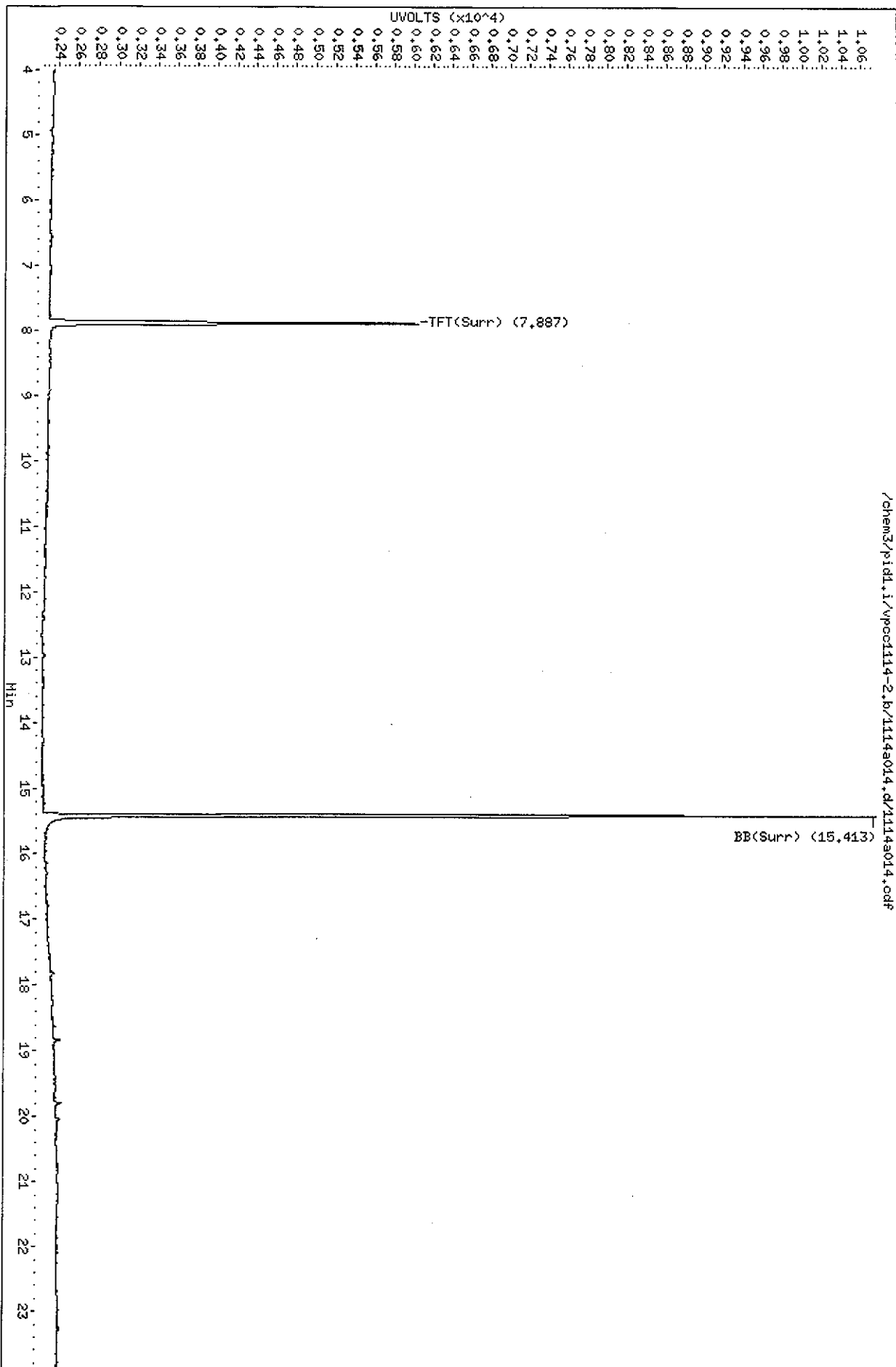
Sample Info: HB1114

Column phase: RTX 502-2 PID

Instrument: pid1.i

Operator: MH

Column diameter: 0.18

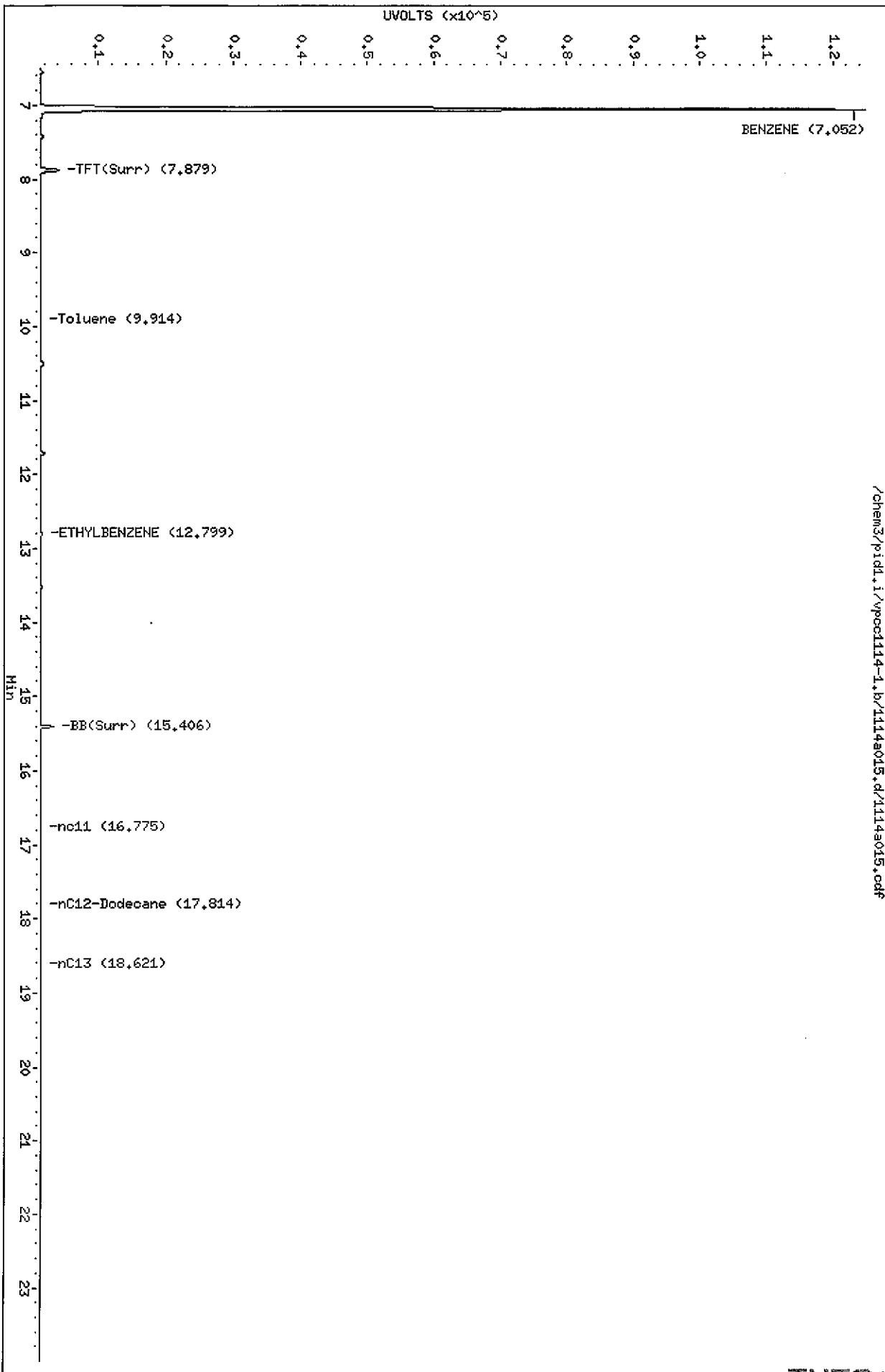


Data File: /chem3/pid1.i/vpoc1114-1.b/1114a015.d
Date: 14-NOV-2011 13:51
Client ID: KJ-B47-RCM
Sample Info: TM56A

Column phase: RTX 502-2 FID

/chem3/pid1.i/vpoc1114-1.b/1114a015.d/1114a015.cdf

Instrument: pid1.i
Operator: HH
Column diameter: 0.18



TW56: 00042

Data File: /chem3/pid1.i/vpoc1114-2.b/1114a015.d

Page 1

Date: 14-NOV-2011 13:51

Client ID: KJ-B47-RGM

Sample Info: TW56A

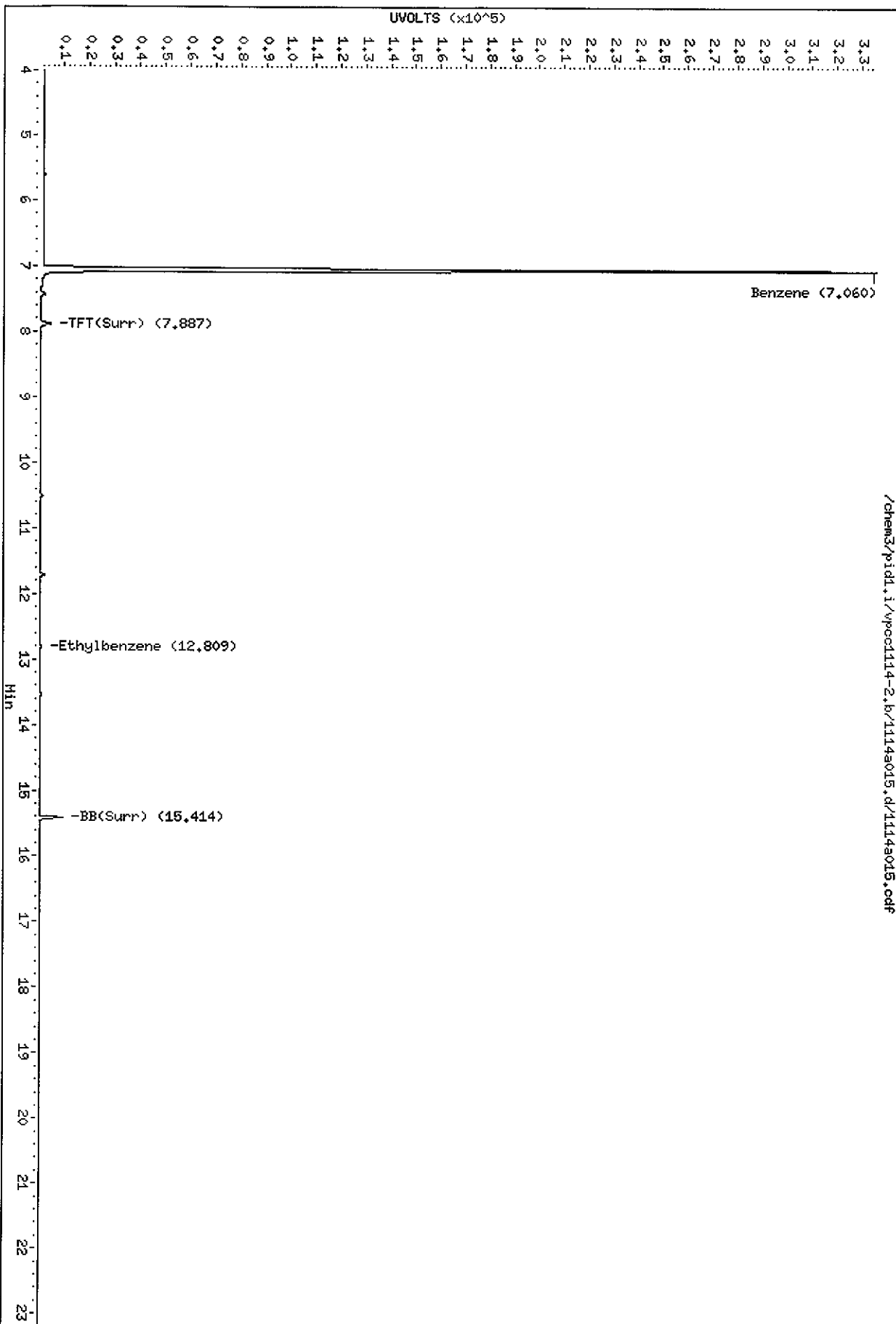
Instrument: pid1.i

Operator: MH

Column diameter: 0.18

Column phase: RTX 502-2 PID

/chem3/pid1.i/vpoc1114-2.b/1114a015.d/1114a015.cdf



TW56 00043

Data File: /chem3/pid1.i/vpoc1114-1.b/1114a016.d

Date: 14-NOV-2011 14:20

Client ID: KJ-B46-RGM

Sample Info: TMS6B

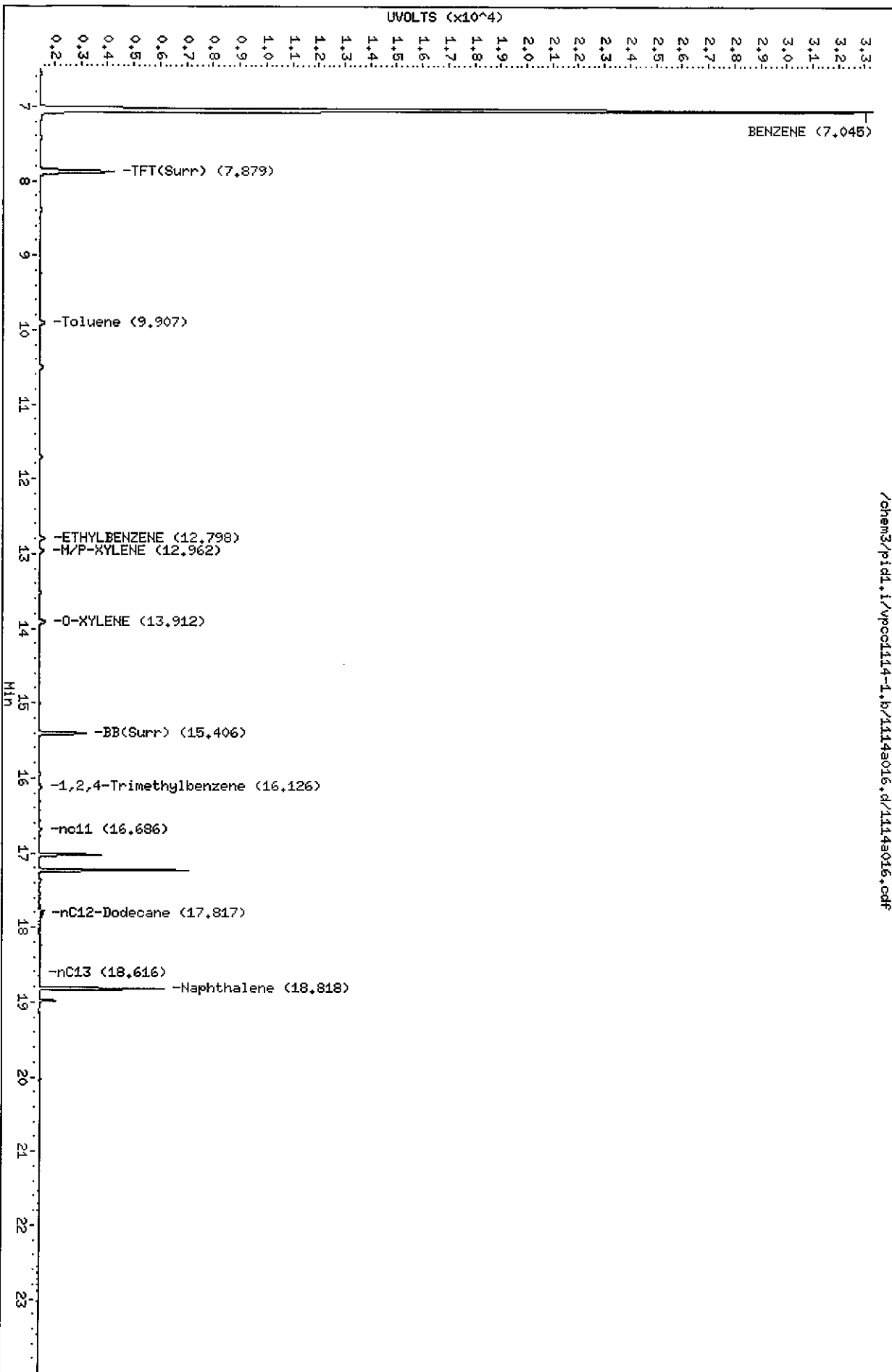
Column phase: RTX 502-2 FID

Instrument: pid1.i

Operator: NH

Column diameter: 0.18

Page 1



/chem3/pid1.i/vpoc1114-1.b/1114a016.d/1114a016.cdf

TMS6B: 000011

Data File: /chem3/pid1.i/vpoc114-2.b/114a016.d

Date: 14-NOV-2011 14:20

Client ID: KJ-B46-RGM

Sample Info: TMS6B

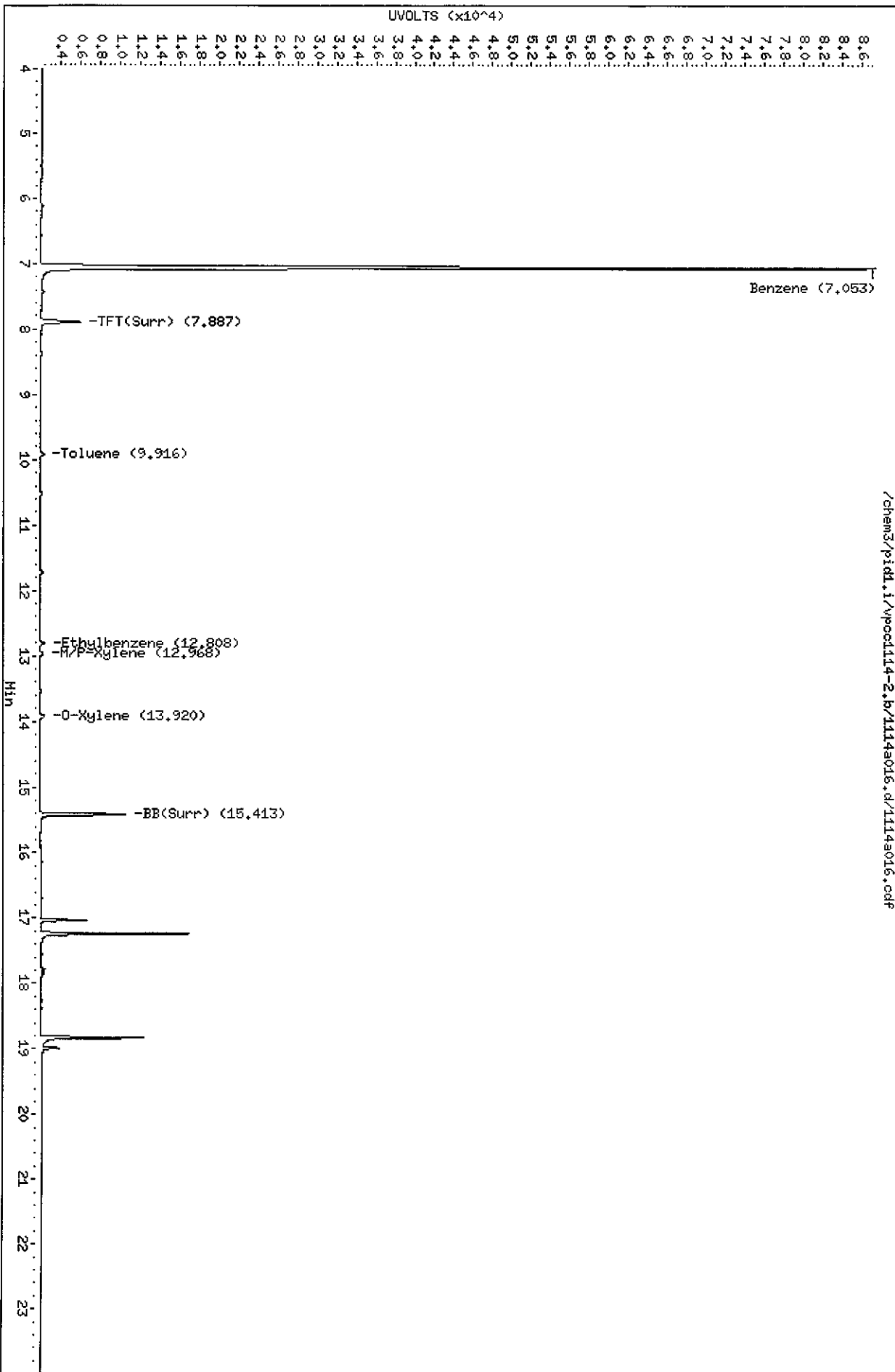
Column phase: RTX 502-2 PID

Page 1

Instrument: pid1.i

Operator: HH

Column diameter: 0.18



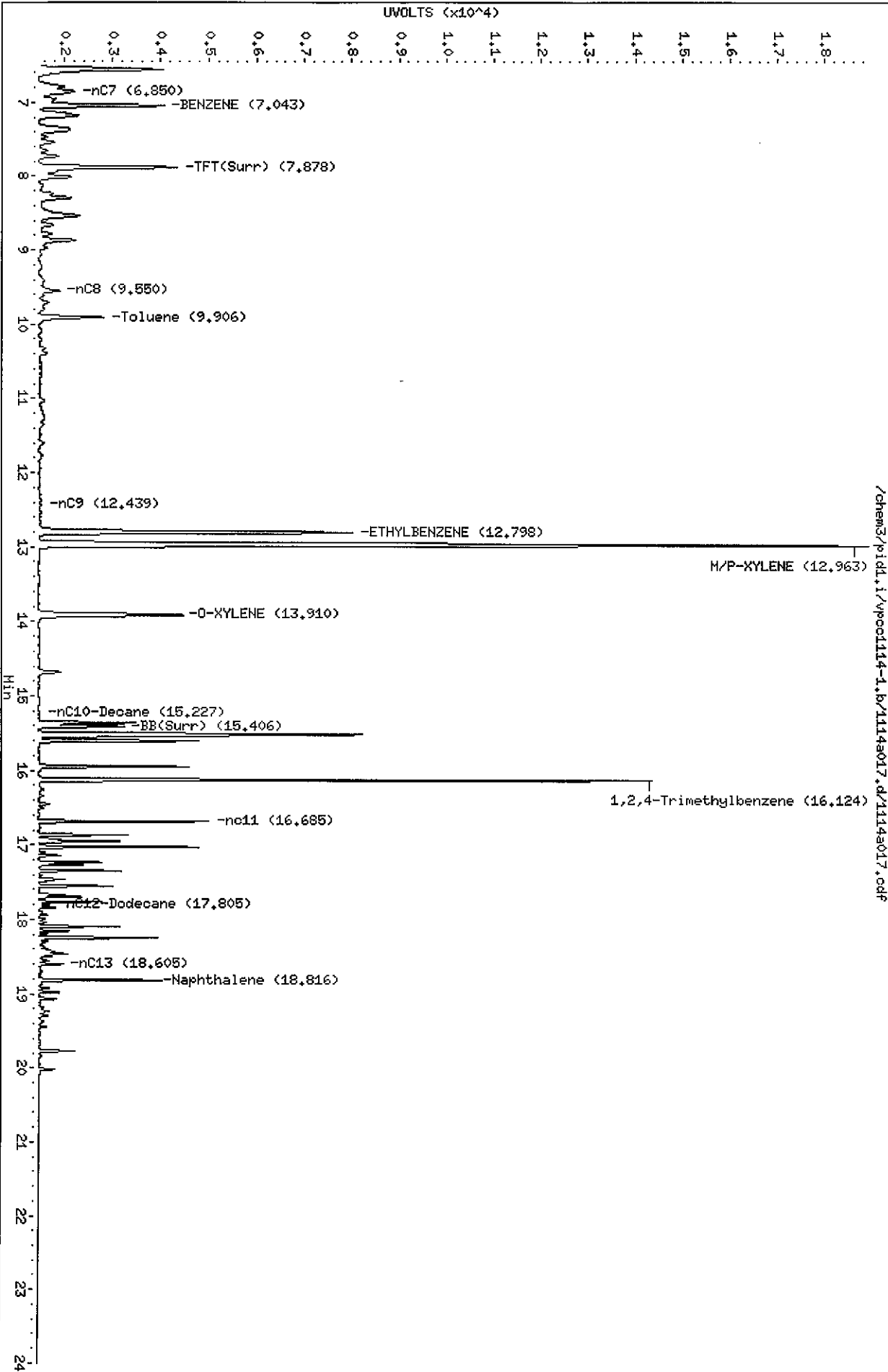
/chem3/pid1.i/vpoc114-2.b/114a016.d/114a016.cdf

114a016.cdf

Data File: /chem3/pidd1.i/vpoc1114-1.b/1114a017.d
Date: 14-NOV-2011 14:50
Client ID: KJ-B48-RGN
Sample Info: TMS6C

Column phase: RTX 502-2 FID

Instrument: pidd1.i
Operator: HH
Column diameter: 0.18



Data File: /chem3/pid1.i/vpoc1114-2.b/1114a017.d

Date: 14-NOV-2011 14:50

Client ID: K3-B48-RGM

Sample Info: TMS6C

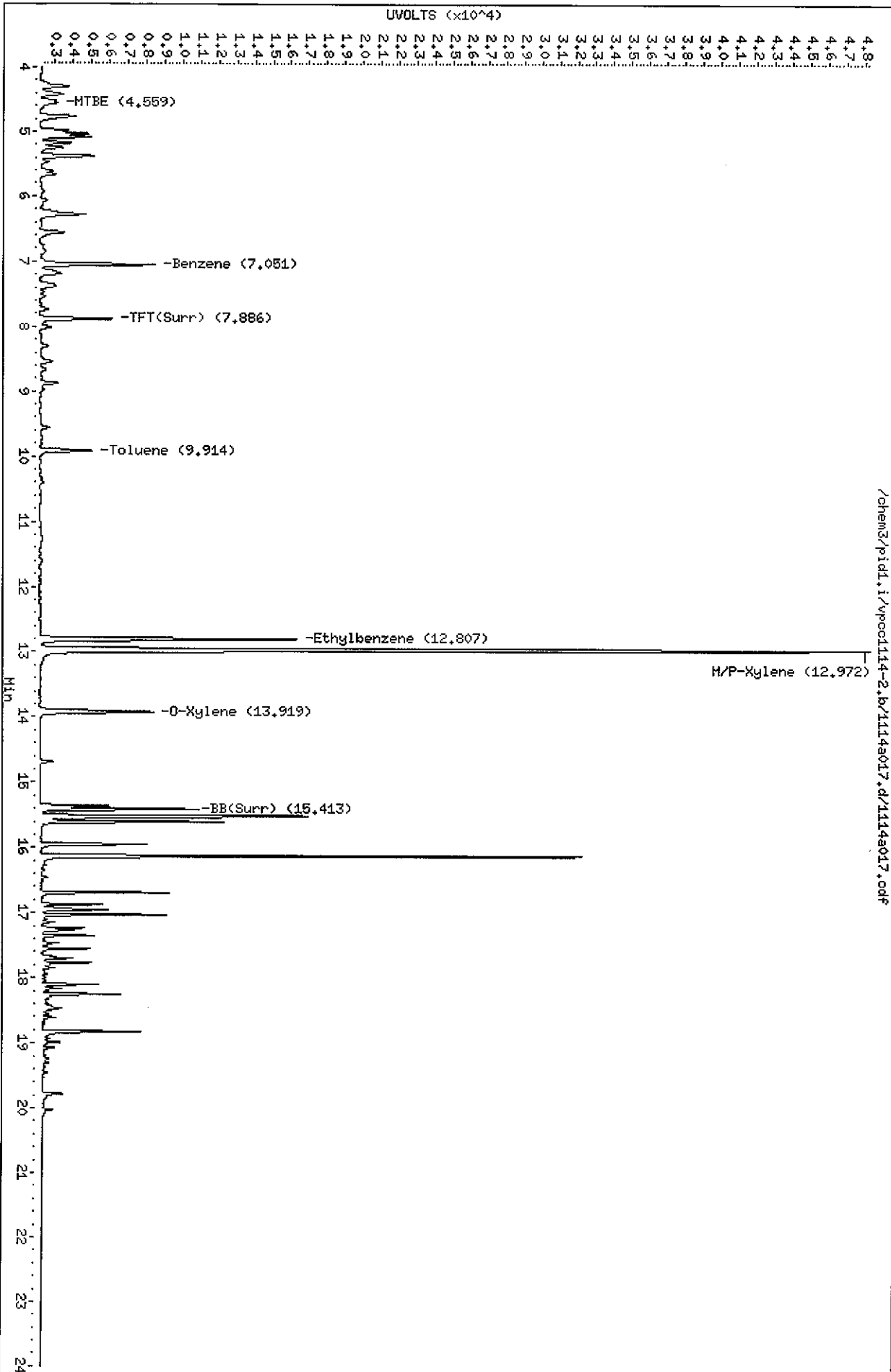
Column phase: RTX 502-2 PID

Instrument: pid1.i

Operator: HH

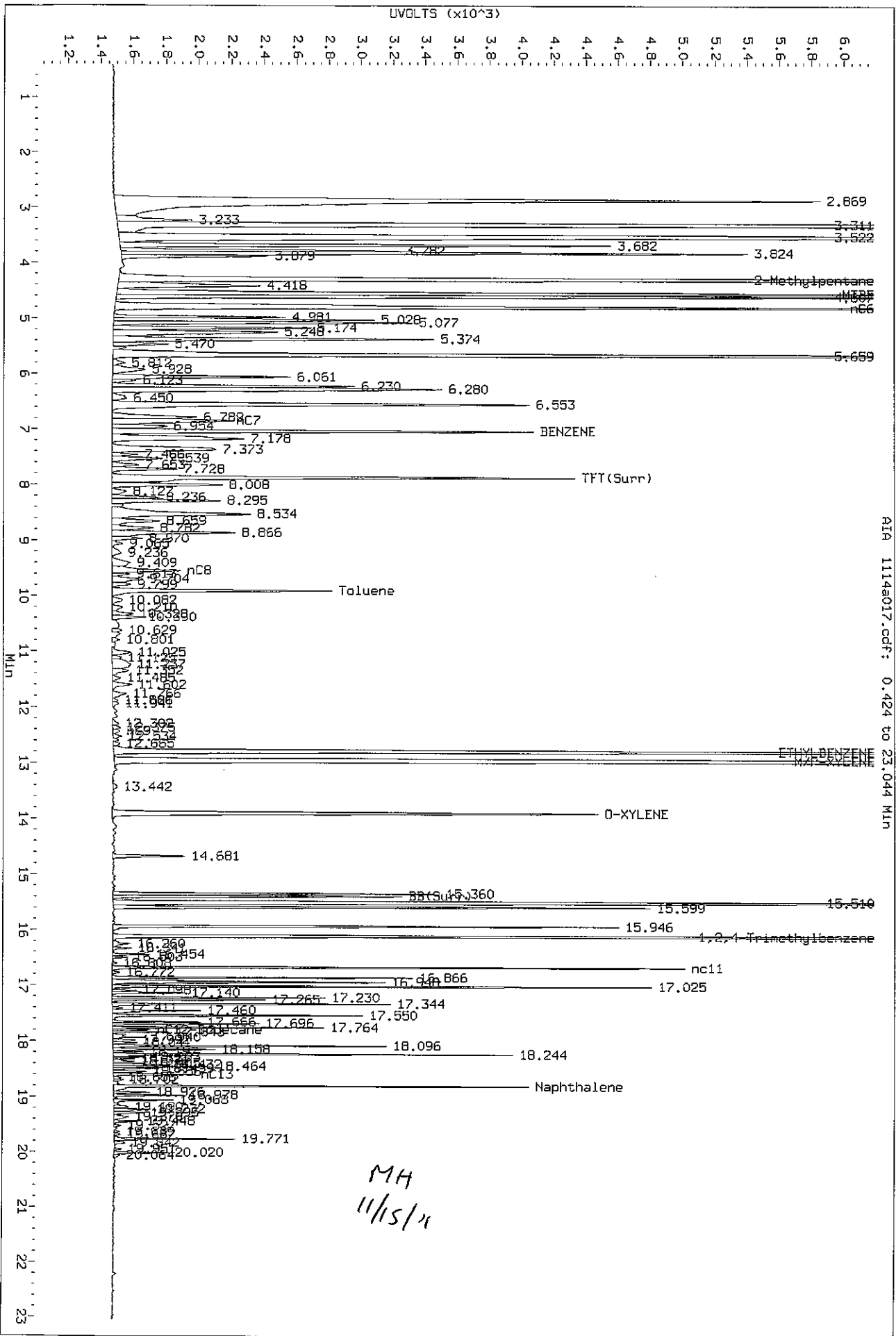
Column diameter: 0.18

Page 1



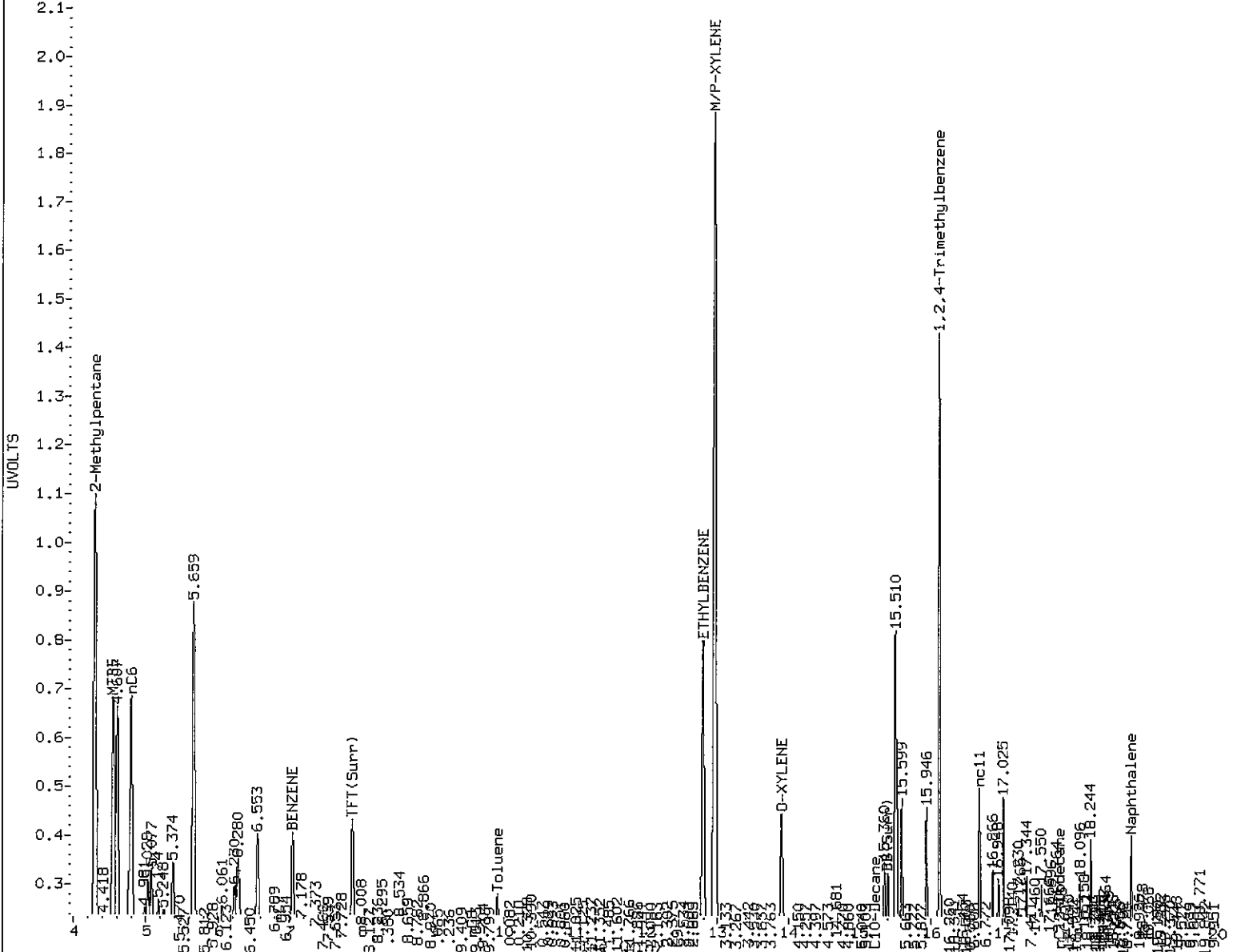
TW56: 00047

Data File: /chem3/pid1.1/vpcc1114-1.5/1114a017.d/1114a017.cdf
 Injection Date: 14-NOV-2011 14:50
 Instrument: pid1.1
 Client Sample ID: KJ-B48-RGM



MH
11/15/11

FID TW56C



MANUAL INTEGRATION

- Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

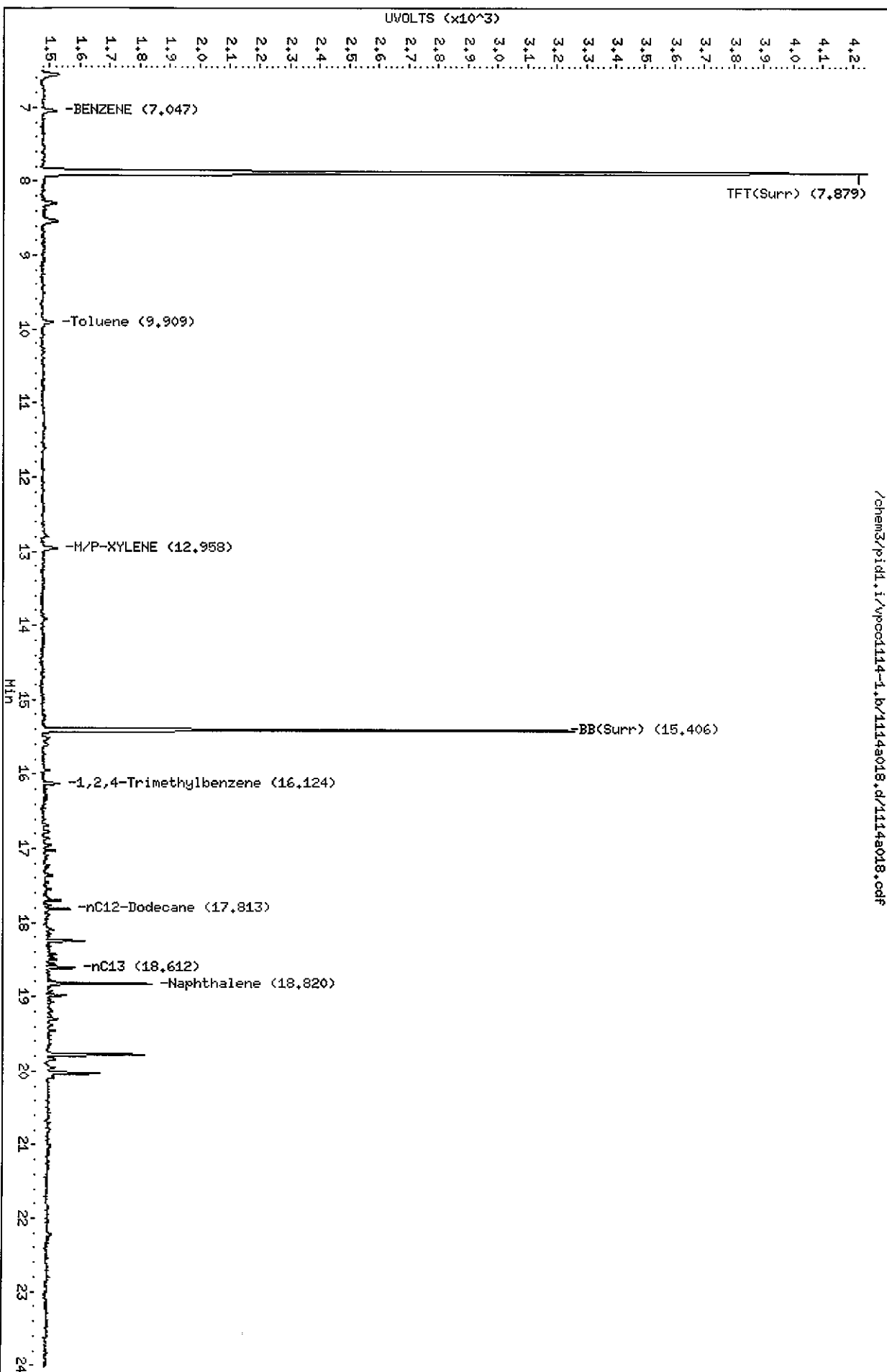
Analyst: MH Date: 11/15/11

Data File: /chem3/pid1.i/vpoc114-1.b/114a018.d
Date: 14-NOV-2011 15:19
Client ID: KJ-863-RGM
Sample Info: TW56D

Column phase: RTX 502-2 FID

/chem3/pid1.i/vpoc114-1.b/114a018.d/114a018.cdf

Instrument: pid1.i
Operator: HH
Column diameter: 0.18



Data File: /chem3/pid1.i/vpoc1114-2.b/1114s018.d

Date: 14-NOV-2011 15:19

Client ID: KJ-B53-RGN

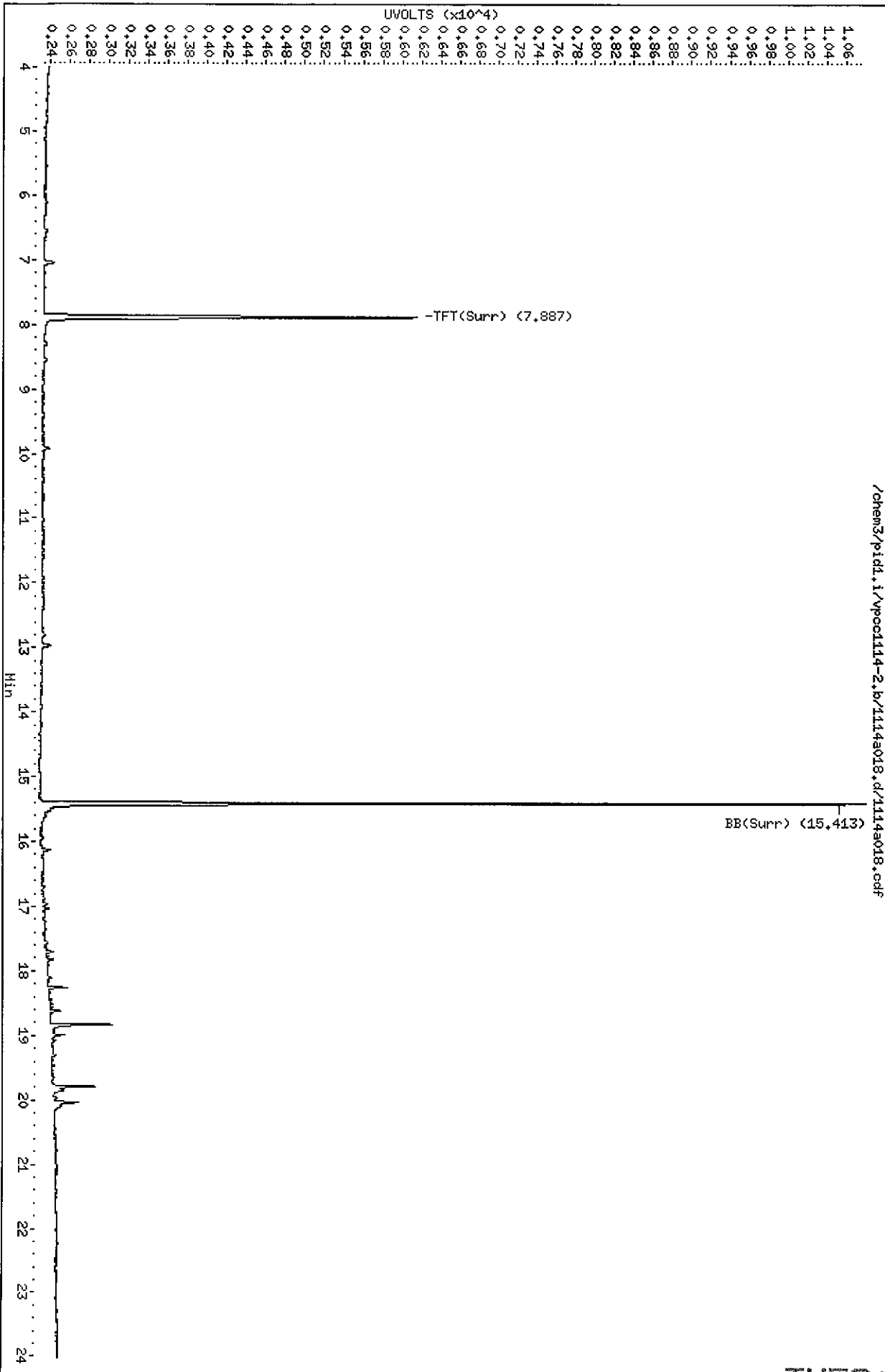
Sample Info: TMS6D

Column phase: RTX 502-2 PID

Instrument: pid1.i

Operator: NH

Column diameter: 0.18



11/15/11 15:19

Data File: /chem3/pid1.i/vpoc1115-1.b/1115a004.d

Date: 15-NOV-2011 06:59

Client ID:

Sample Info: LCS1115

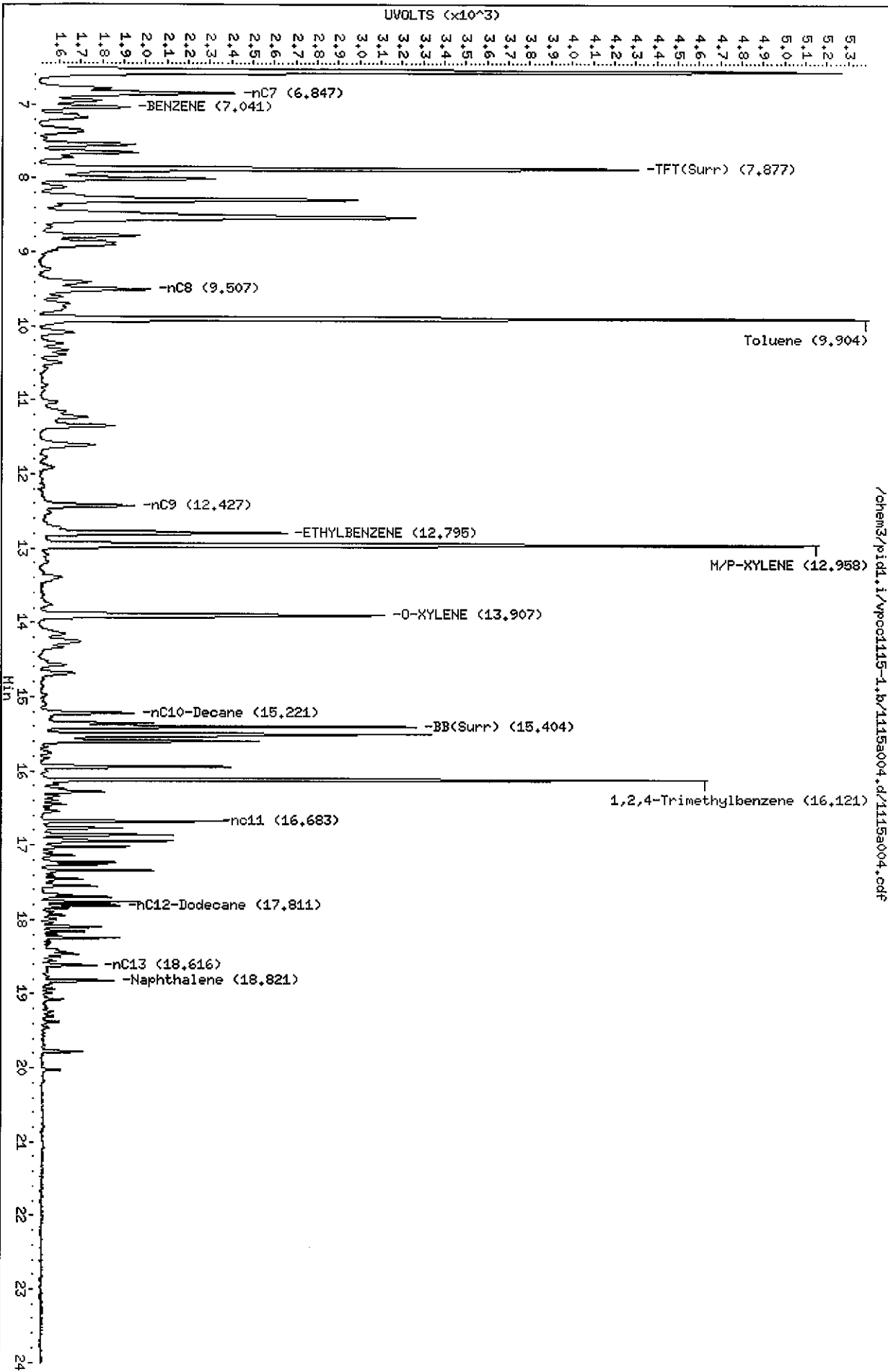
Column phase: RTX 502-2 FID

Instrument: pid1.i

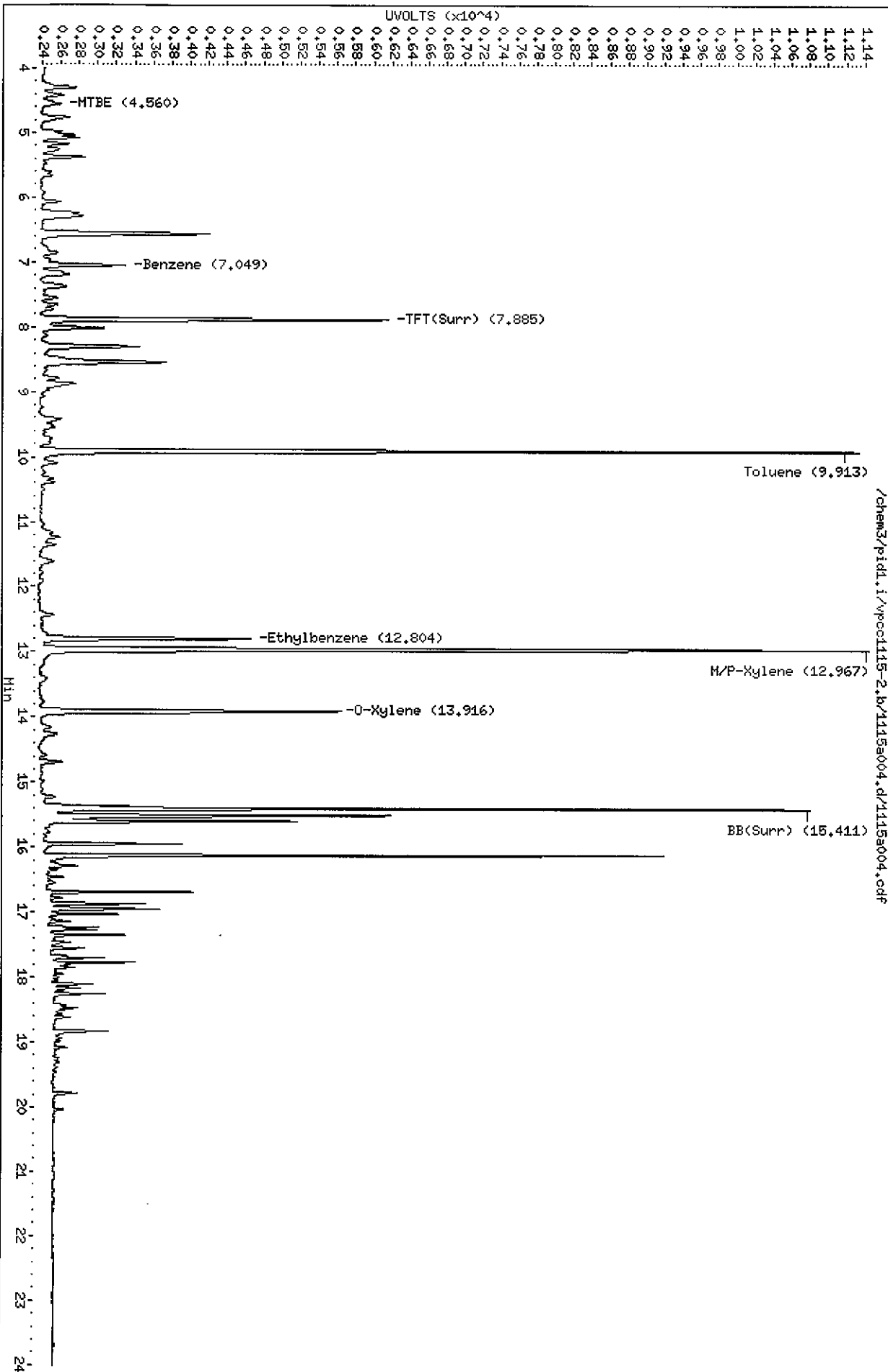
Operator: HH

Column diameter: 0.18

Page 1



TW50: 00052



Data File: /chem3/pidd1.i/vpoc1115-1.b/1115a005.d

Date: 15-NOV-2011 07:28

Client ID:

Sample Info: LCSD1115

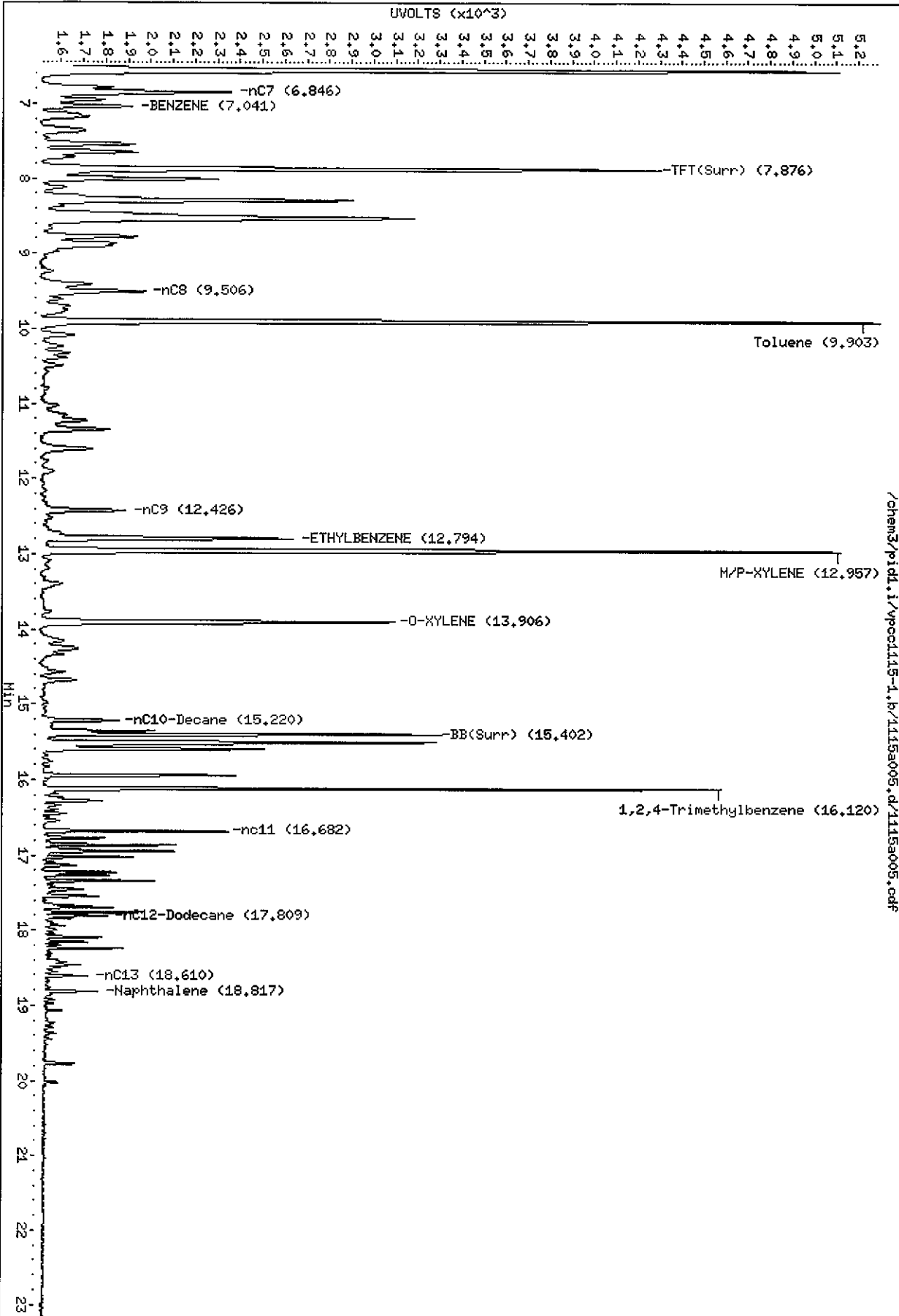
Column phase: RTX 502-2 FID

Instrument: pidd1.i

Operator: MH

Column diameter: 0.18

Page 1



Data File: /chem3/pid1.i/vpoc1115-2.b/1115a005.d
Date: 15-NOV-2011 07:28

Client ID:

Sample Infol: LCSD1115

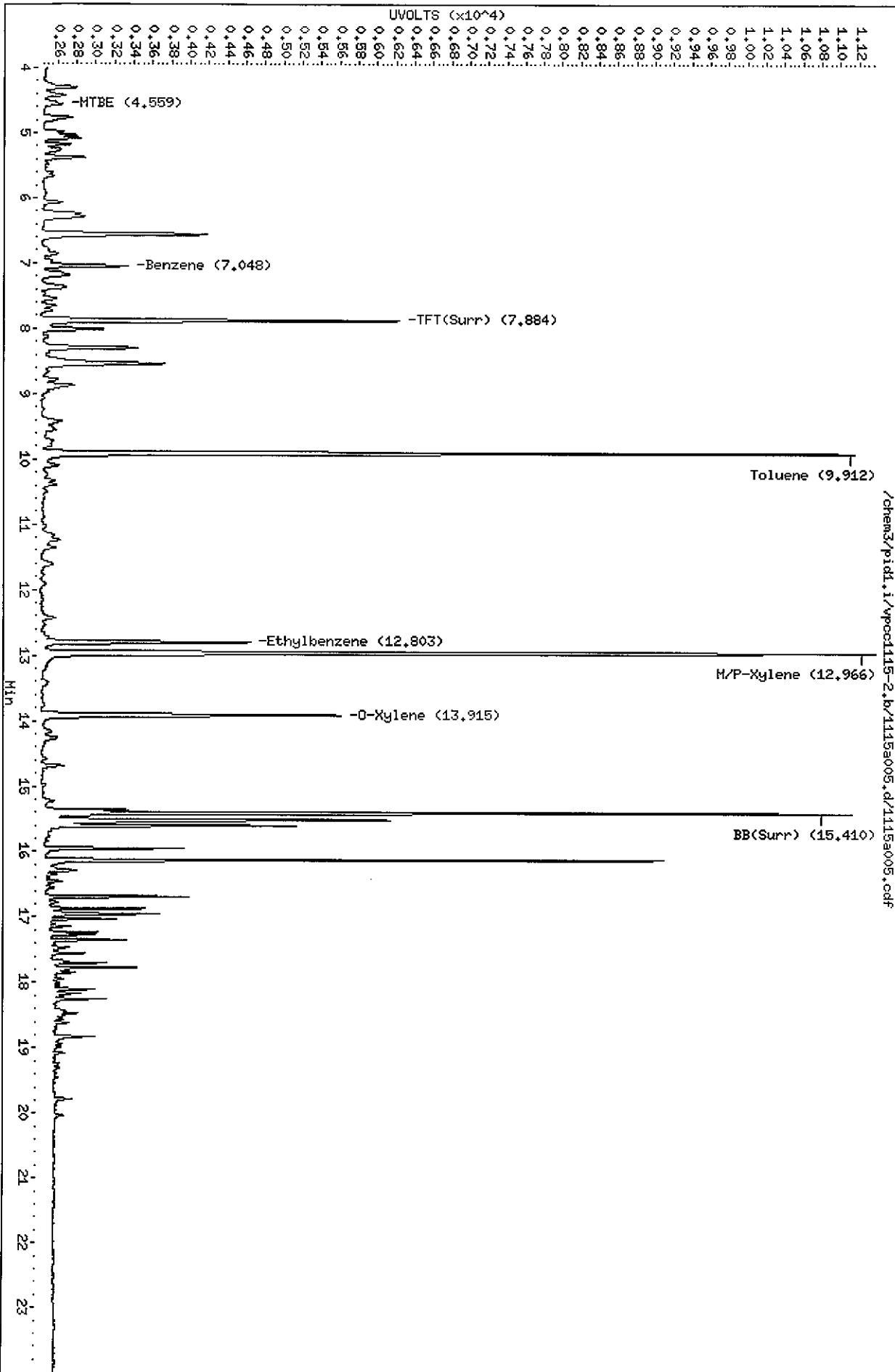
Column phase: RTX 502-2 PID

Instrument: pid1.i

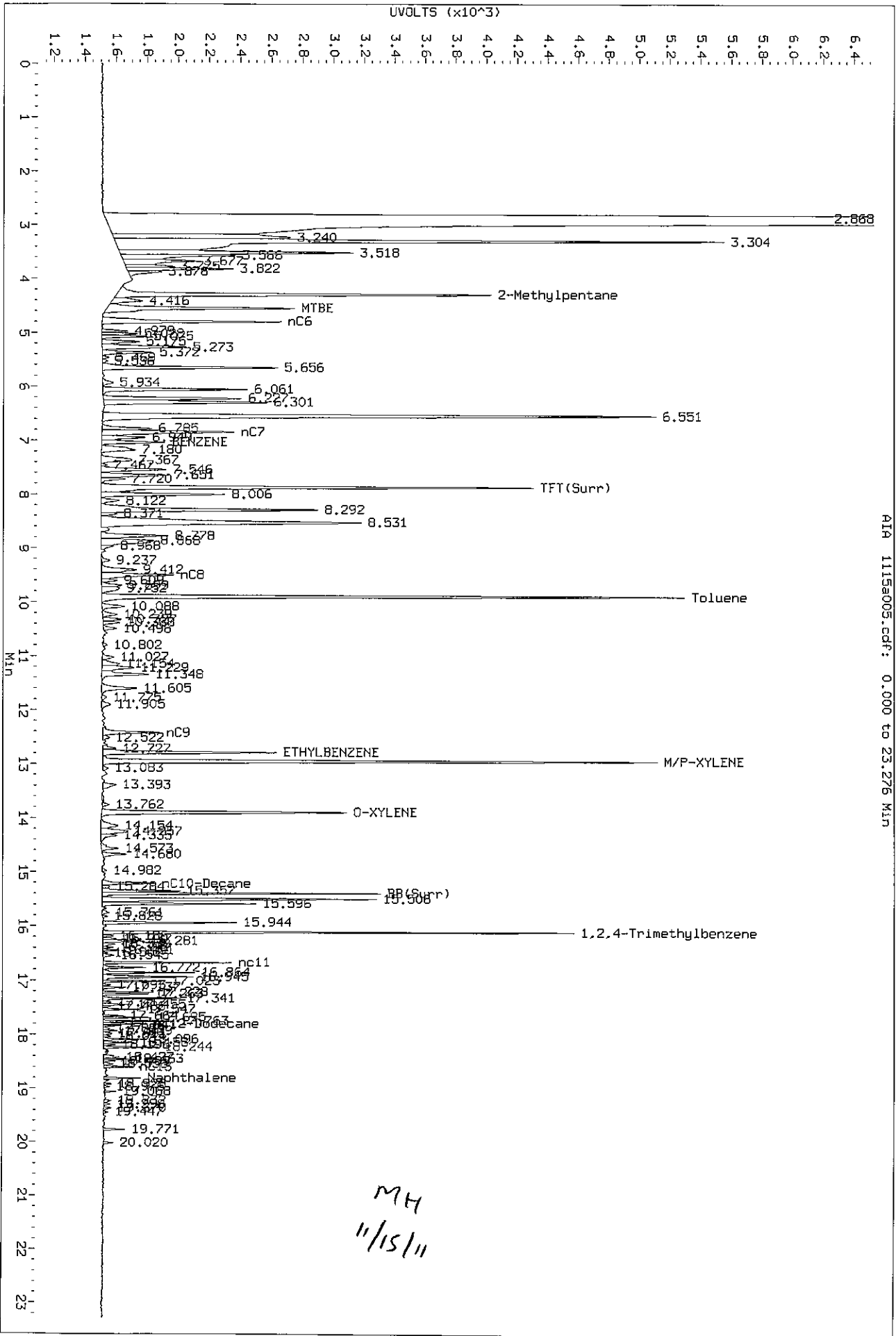
Operator: HH

Column diameter: 0.18

Page 1

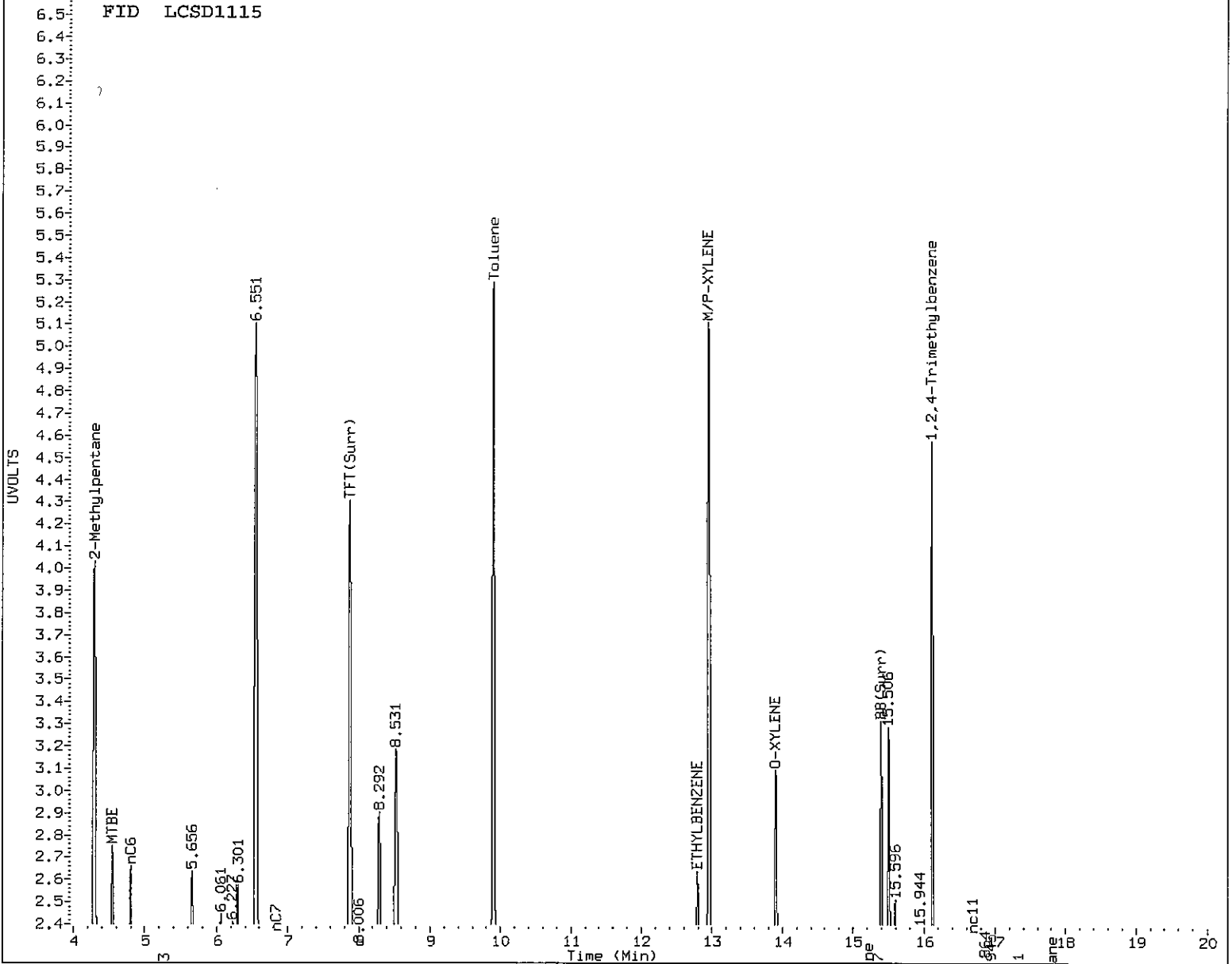


Data File: /chems/pid1.i/vpcc1115-1.b/1115a005.d/1115a005.cdf
 Injection Date: 15-NOV-2011 07:28
 Instrument: pid1.1
 Client Sample ID:



AIA 1115a005.cdf: 0.000 to 23.276 Min

MH
11/15/11



MANUAL INTEGRATION

- Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: MH Date: 11/15/11

Data File: /chem3/pid1.i/vpoc1115-1.b/1115a006.d

Date: 15-NOV-2011 07:58

Client ID:

Sample Info: HB1115

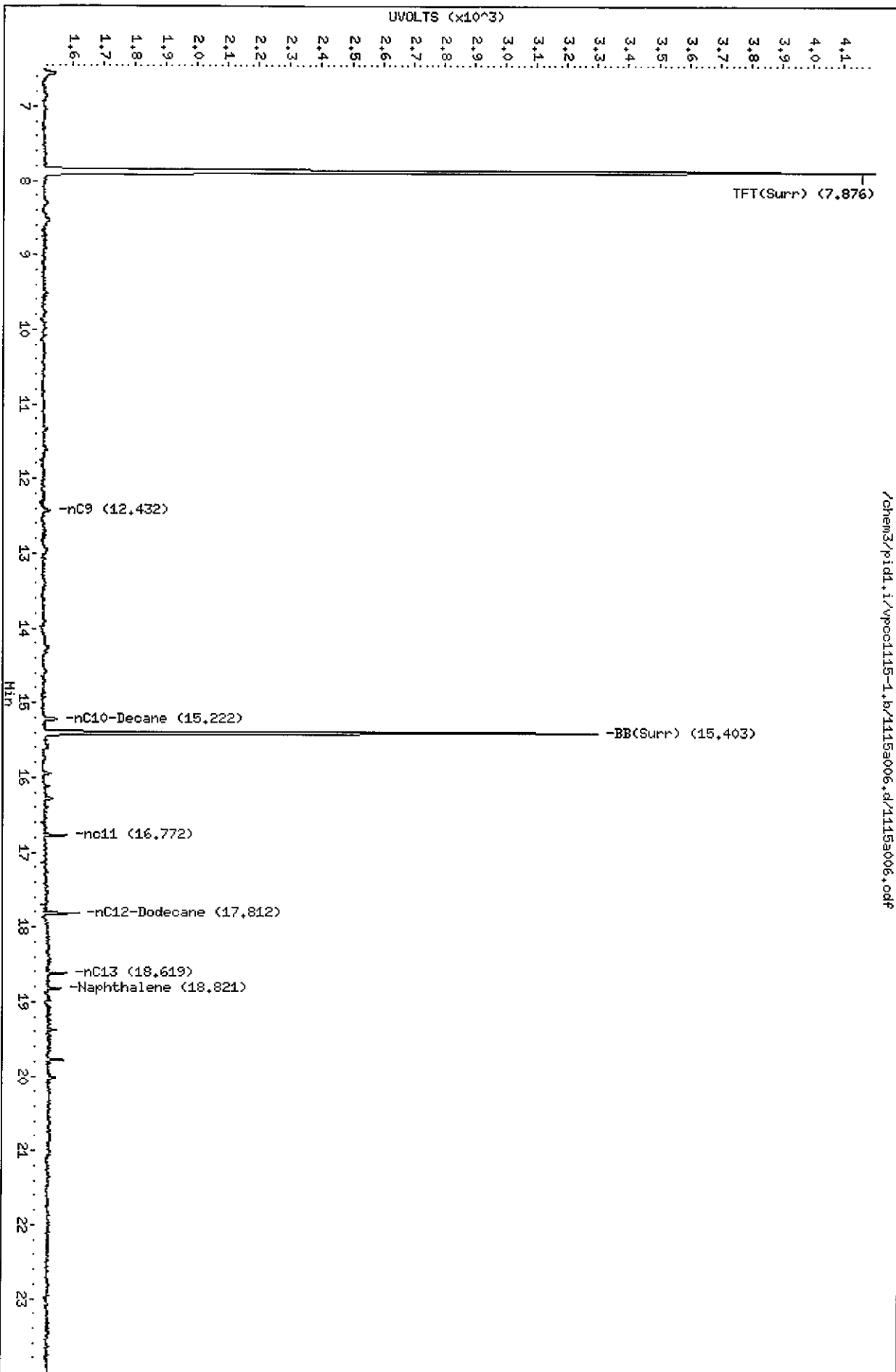
Column phase: RTX 502-2 FID

Instrument: pid1.i

Operator: HH

Column diameter: 0.18

/chem3/pid1.i/vpoc1115-1.b/1115a006.d/1115a006.cdf



Data File: /chem3/pidd.i/vpcc1115-2.b/1115a006.d

Date: 15-NOV-2011 07:58

Client ID:

Sample Info: MB1115

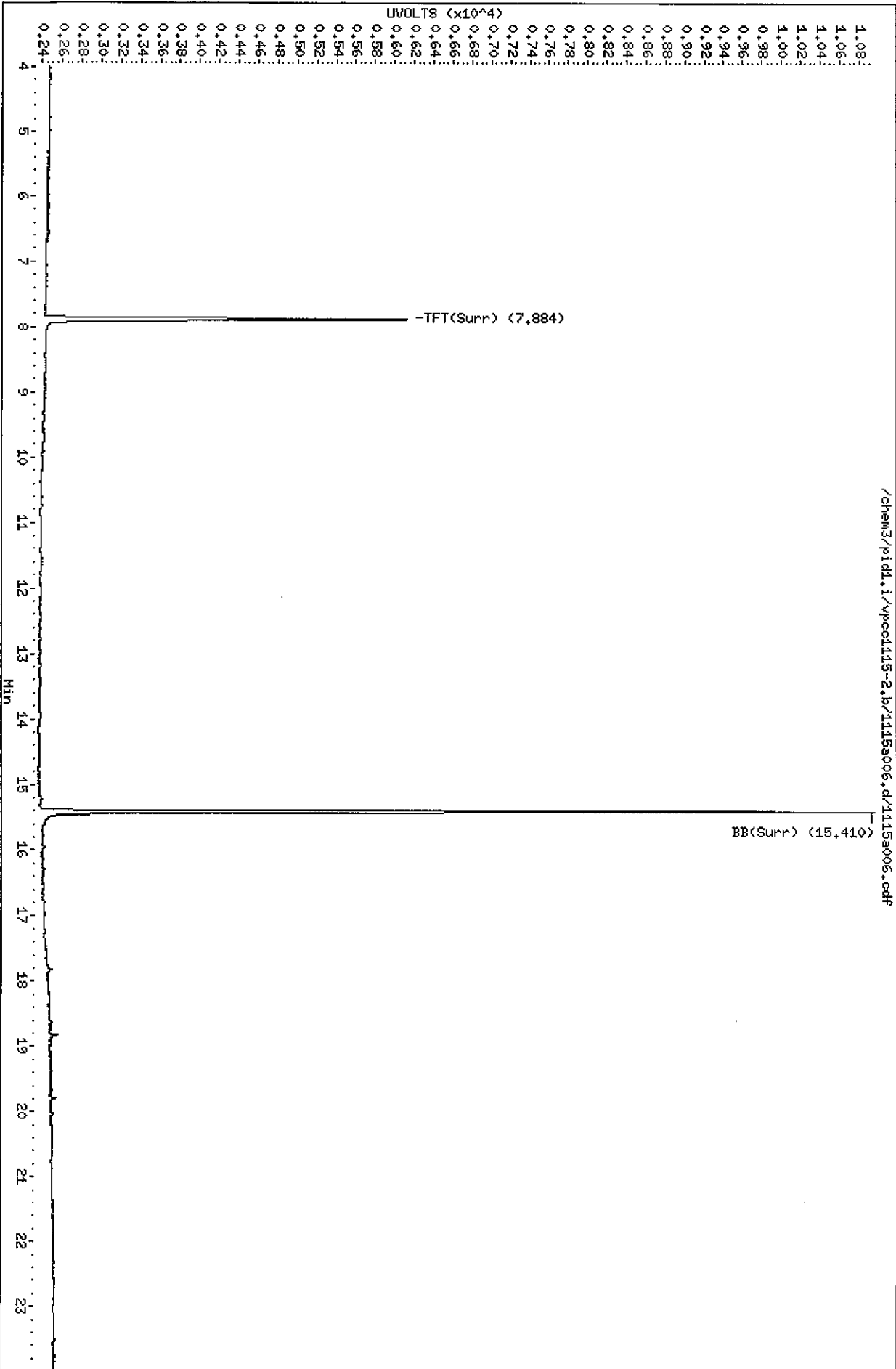
Column phase: RTX 502-2 PID

Instrument: pidd.i

Operator: HH

Column diameter: 0.18

Page 1



TW50 : 00061

Data File: /chem3/pid1.i/vpoc1115-1.b/1115a010.d

Date: 15-NOV-2011 10:24

Client ID: KJ-BSS-RGM

Sample Info: TW56E

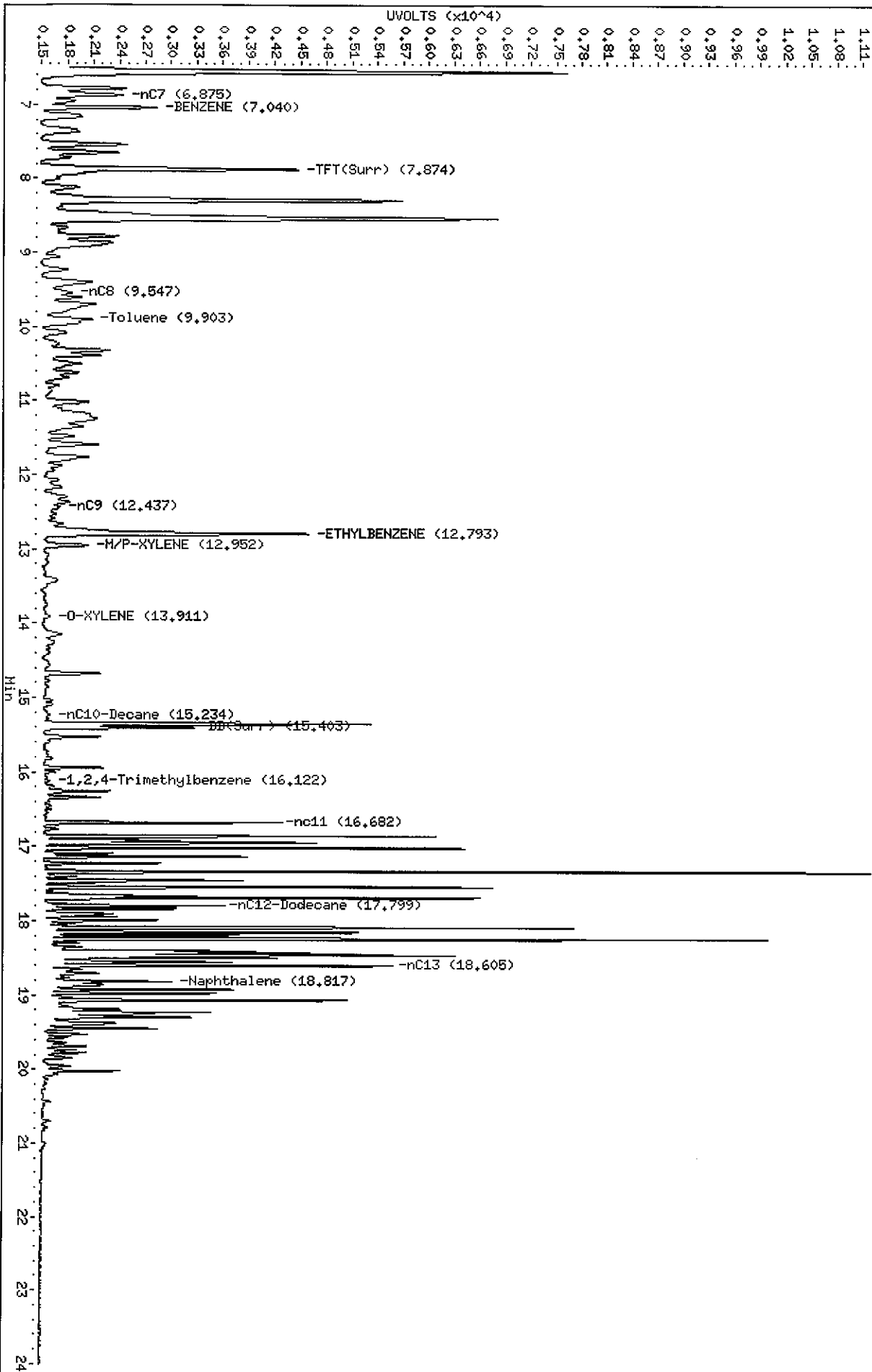
Column phase: RTX 502-2 FID

Instrument: pid1.i

Operator: HH

Column diameter: 0.18

/chem3/pid1.i/vpoc1115-1.b/1115a010.d/1115a010.cdf

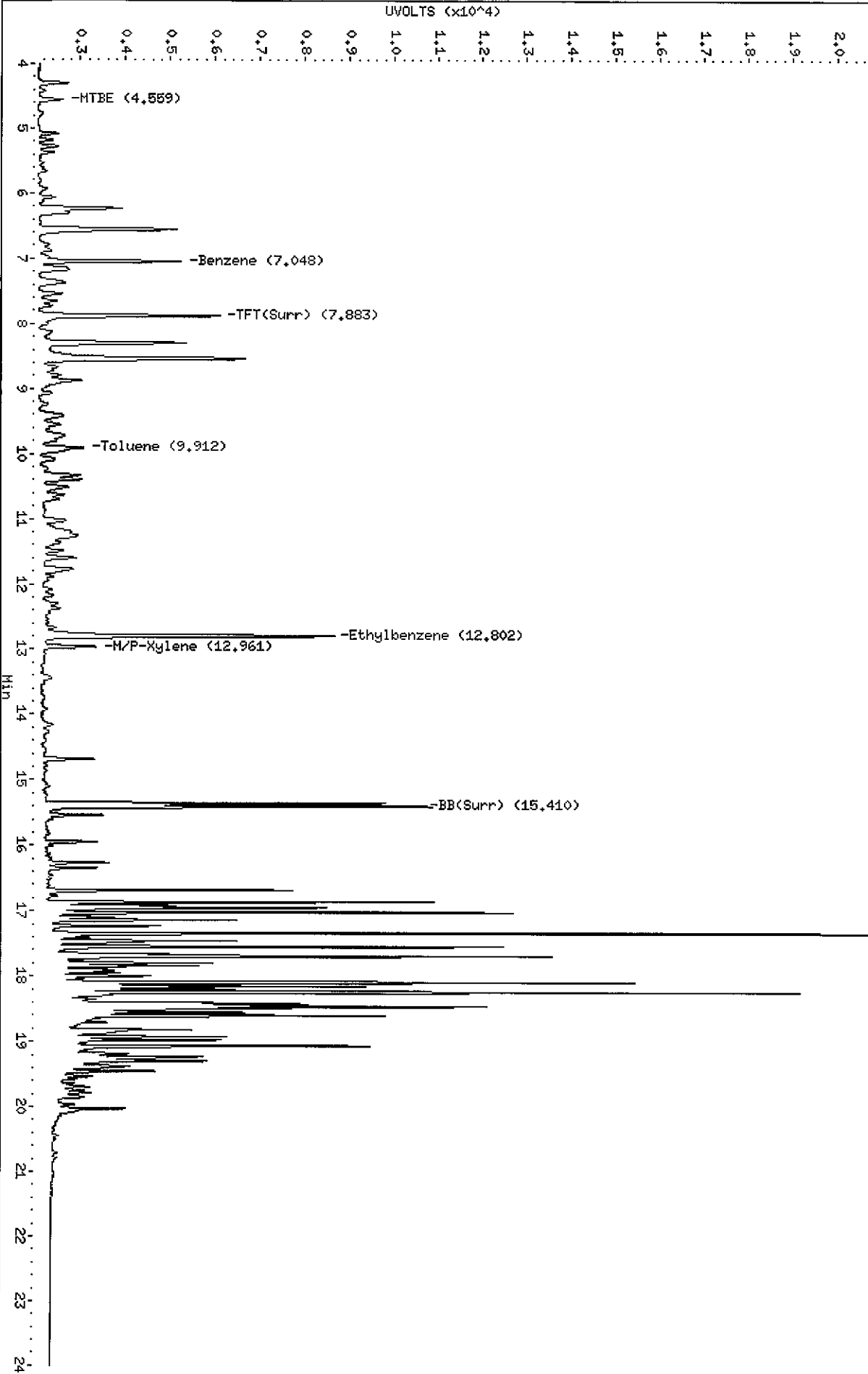


Data File: /chem3/pidd1.i/vpoc1115-2.b/1115a010.d
Date: 15-NOV-2011 10:21
Client ID: KJ-BSS-RGM
Sample Info: TMS6E

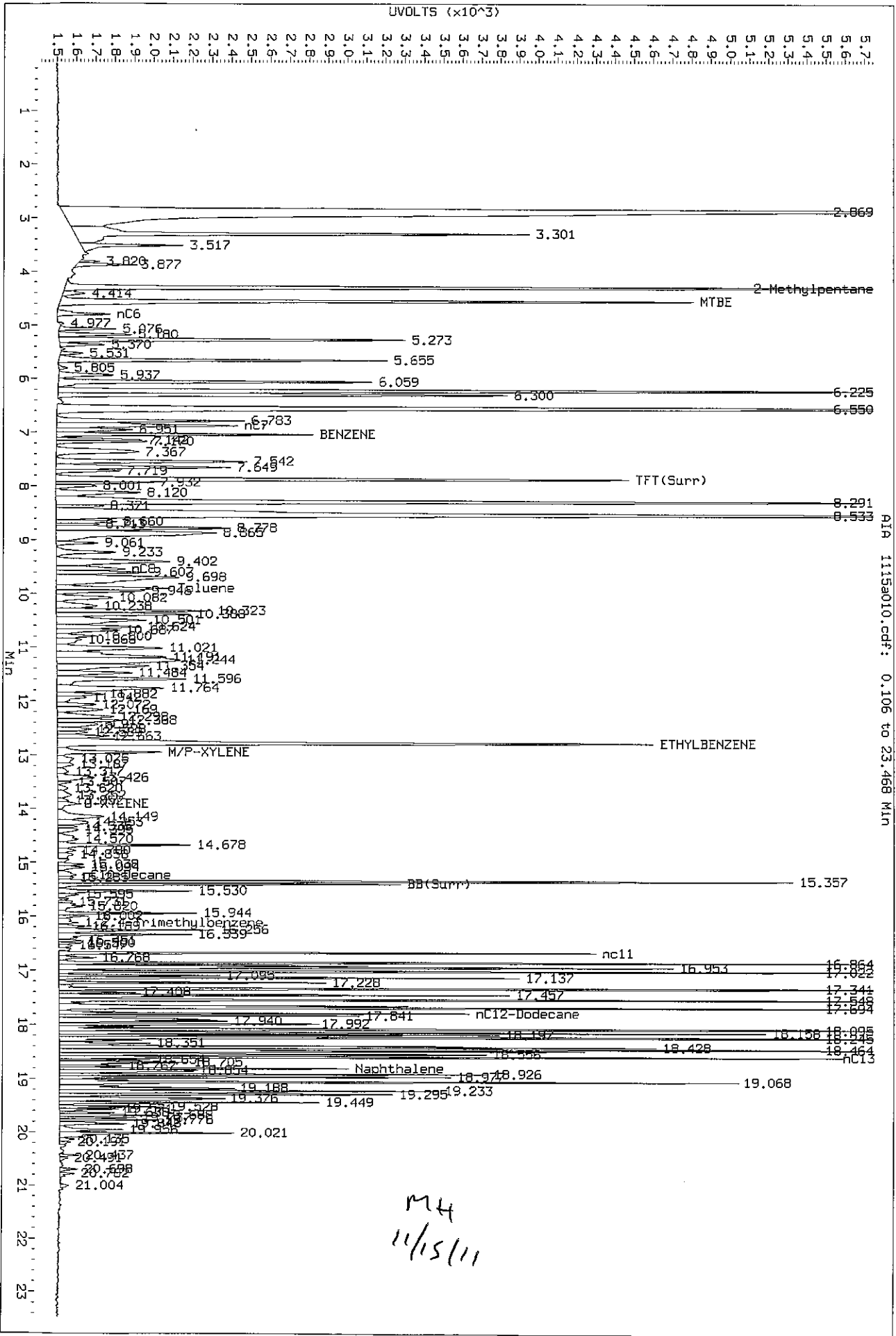
Column phase: RTX 502-2 PID

/chem3/pidd1.i/vpoc1115-2.b/1115a010.d/1115a010.cdf

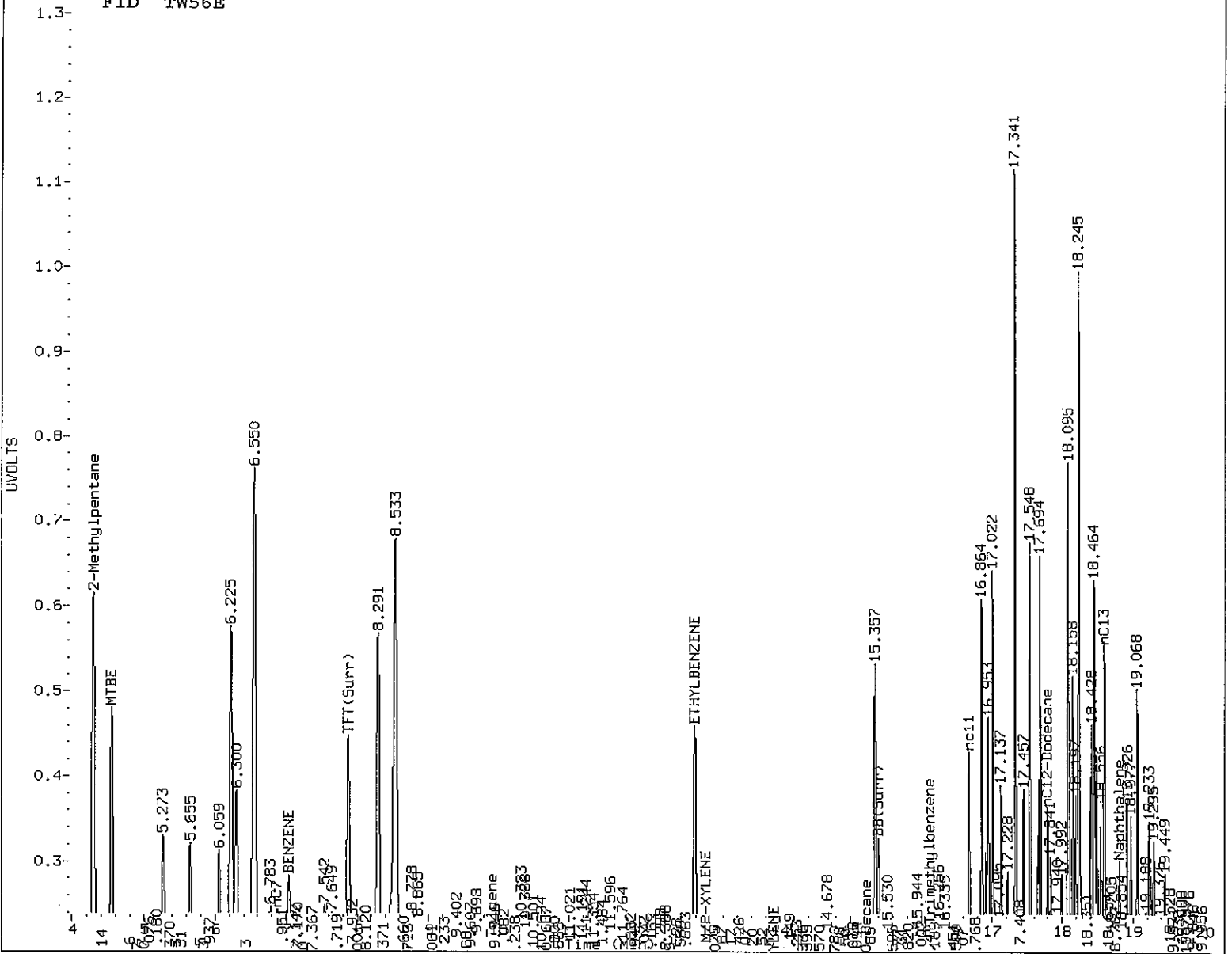
Instrument: pidd1.i
Operator: HH
Column diameter: 0.18



Data File: /chem3/pid1,1/vpcc1115-1.b/1115a010.d/1115a010.cdf
 Injection Date: 15-NOV-2011 10:21
 Instrument: pid1.1
 Client Sample ID: KJ-955-RGW



FID TW56E



MANUAL INTEGRATION

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: MH Date: 11/15/11

Data File: /chem3/pid1.i/vpcc1115-1.b/1115a008.d

Date: 15-NOV-2011 09:22

Client ID: KJ-B47-RGM

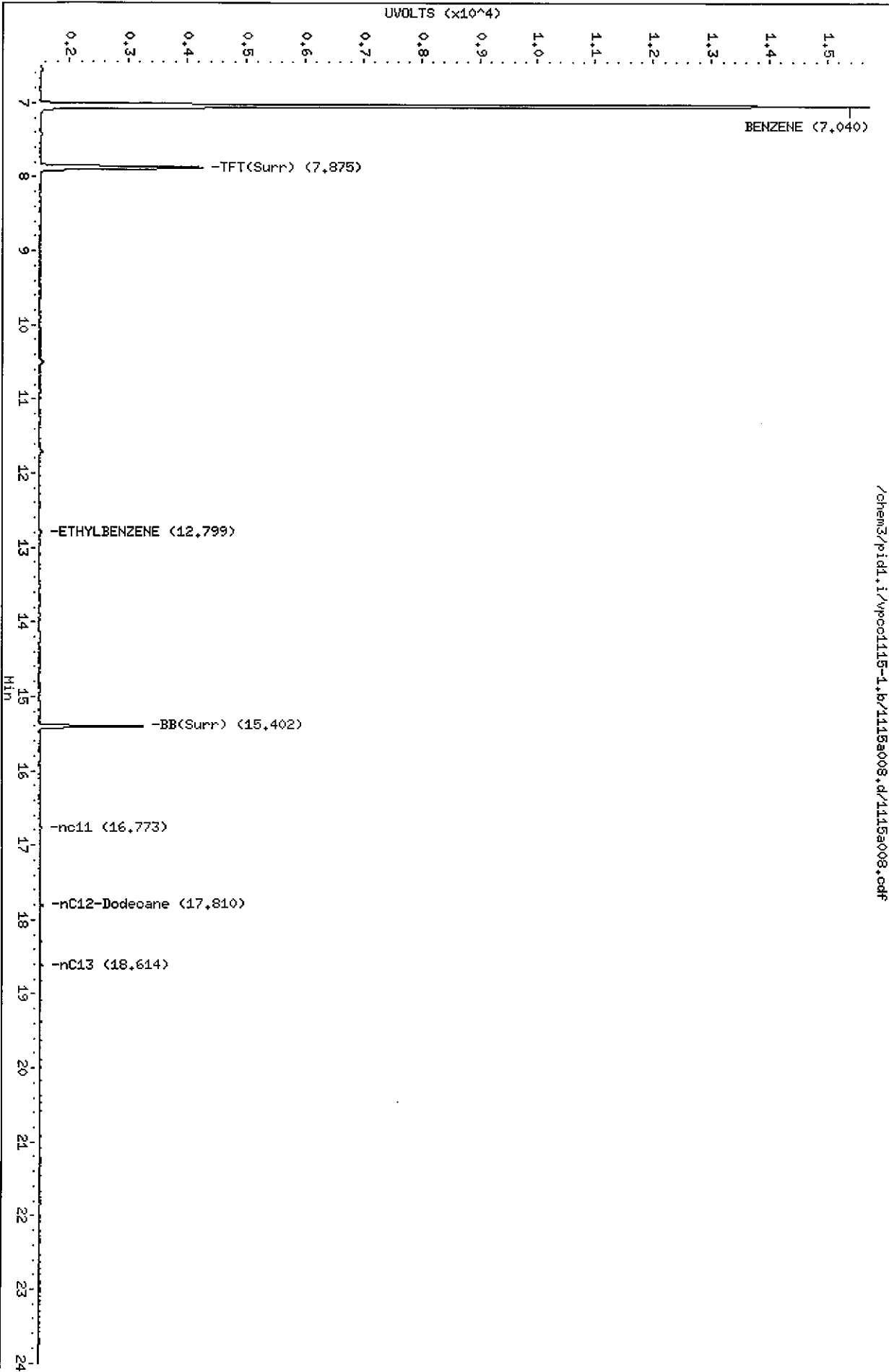
Sample Info: TMS60,10

Column phase: RTX 502-2 FID

Instrument: pid1.i

Operator: HH

Column diameter: 0.18



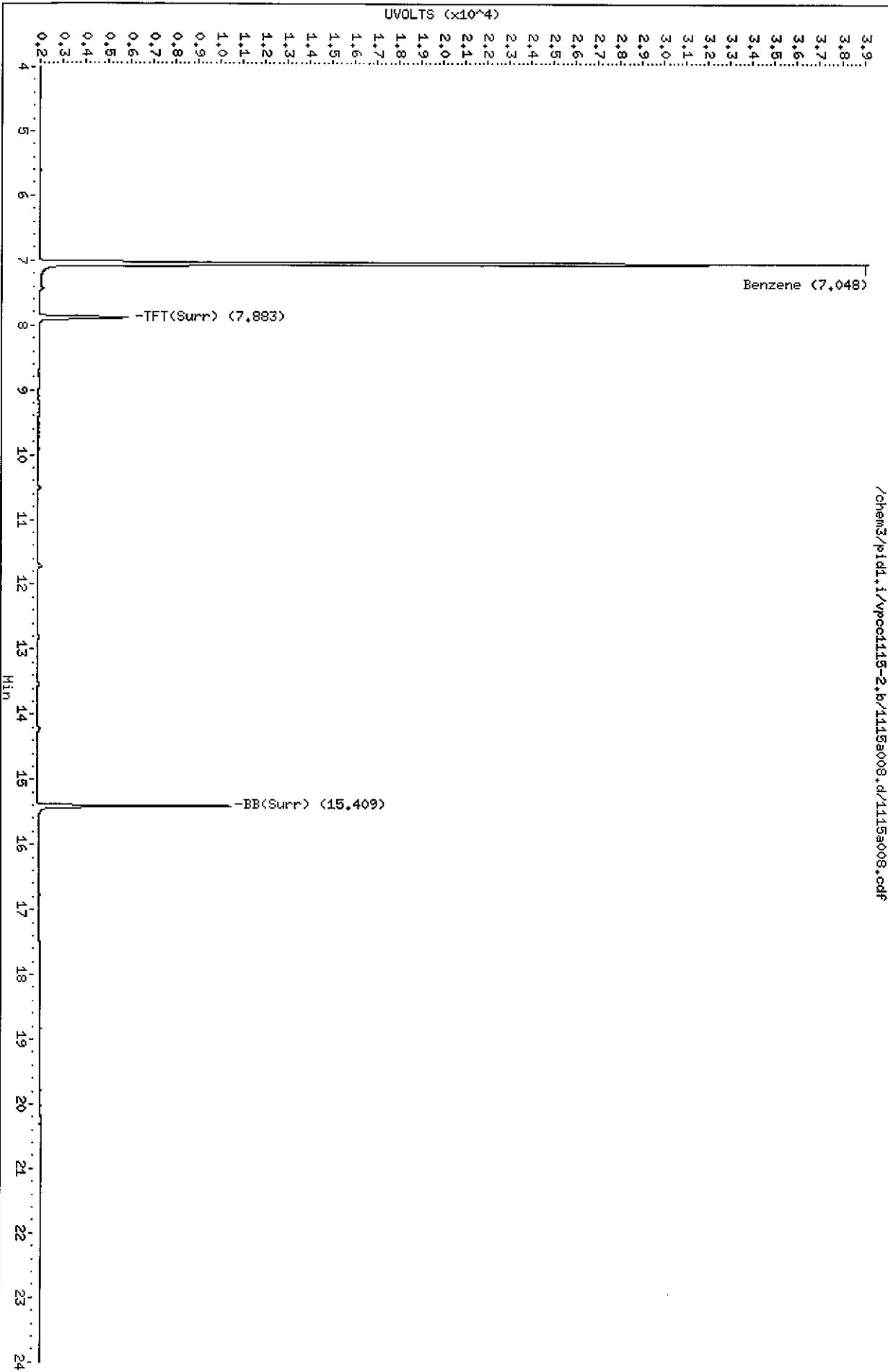
/chem3/pid1.i/vpcc1115-1.b/1115a008.d/1115a008.cdf

TW50 000000

Data File: /chem3/pidd.i/vpcc1115-2.b/1115a008.d
Date: 15-NOV-2011 09:22
Client ID: KJ-B47-RGM
Sample Info: TMS69/10

Column phase: RTX 502-2 P10

Instrument: pidd.i
Operator: MH
Column diameter: 0.18



Data File: /chem3/pid1.i/vpoc1115-1.b/1115a009.d

Date: 15-NOV-2011 09:52

Client ID: KJ-B46-RGM

Sample Info: TMS6B.5

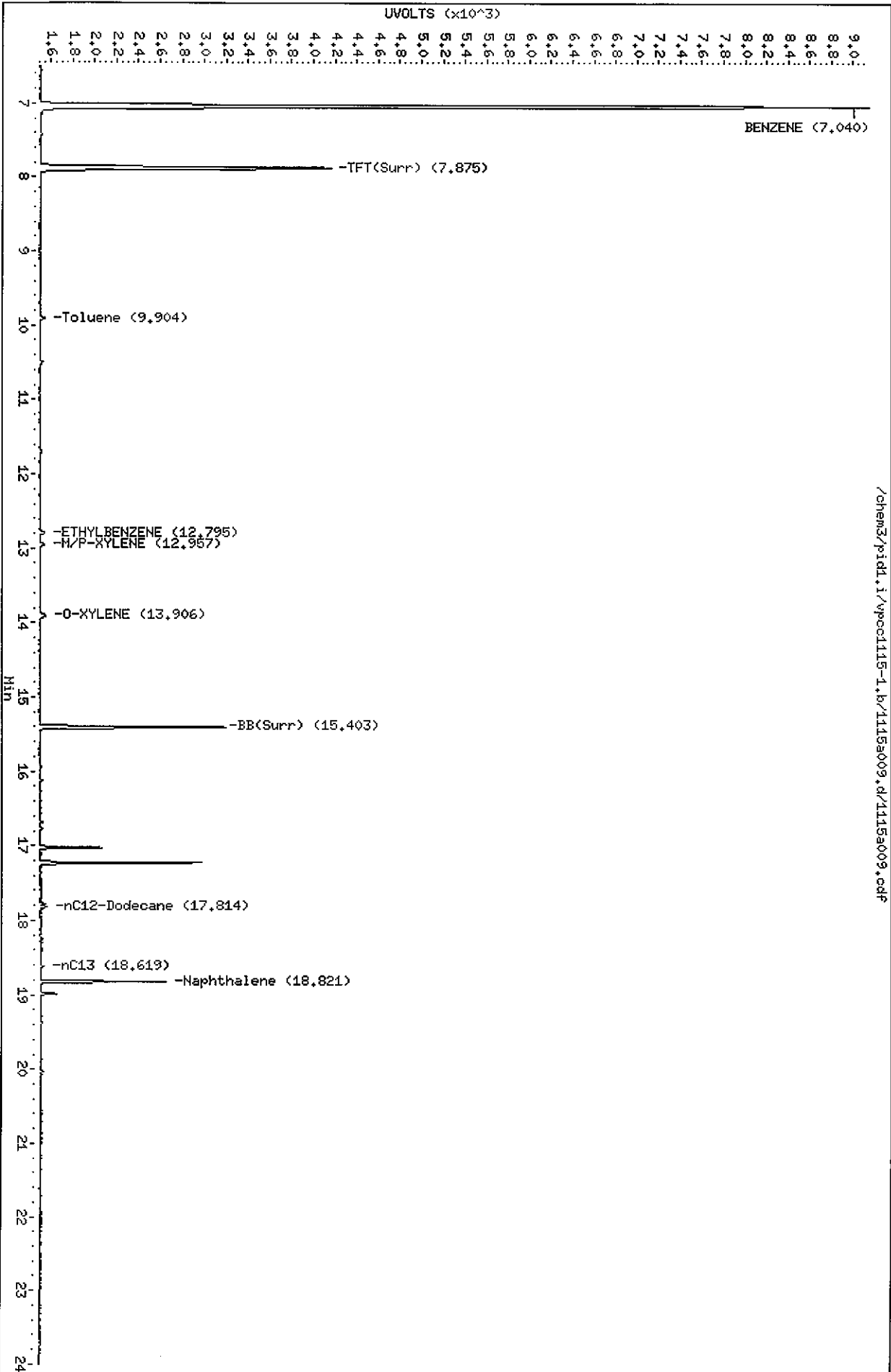
Column phase: RTX 502-2 FID

Instrument: pid1.i

Operator: HH

Column diameter: 0.18

/chem3/pid1.i/vpoc1115-1.b/1115a009.d/1115a009.cdf



Data File: /chem3/pid1.i/vpcc1115-2.b/1115a009.d

Date: 15-NOV-2011 09:52

Client ID: KJ-B46-RGM

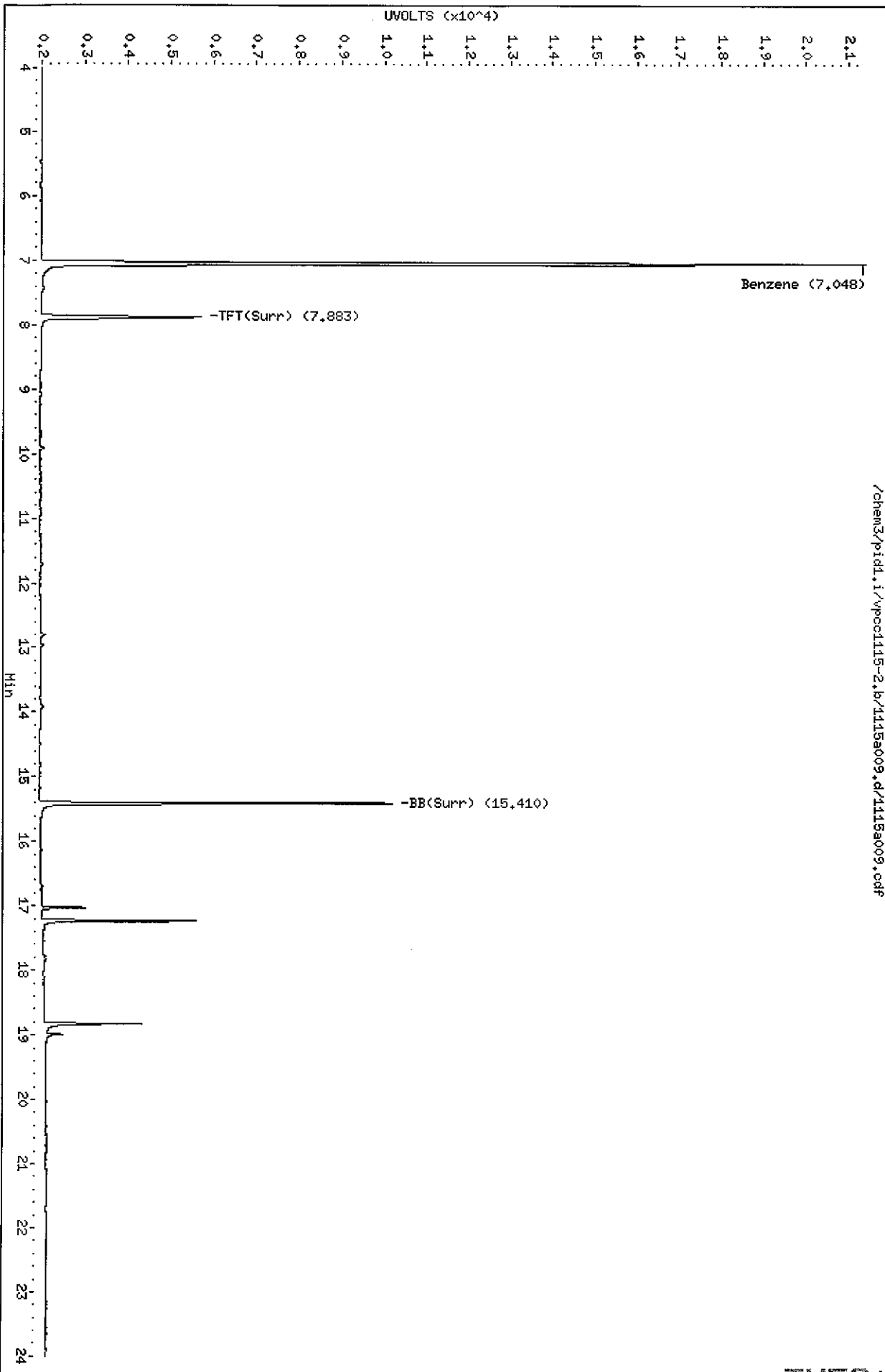
Sample Info: TMS6B.5

Column phase: RTX 502-2 PID

Instrument: pid1.i

Operator: HH

Column diameter: 0.18



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ORGANICS ANALYSIS DATA SHEET
 BETX by Method SW8021BMod
 TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: MB-111411
 METHOD BLANK

Lab Sample ID: MB-111411
 LIMS ID: 11-26184
 Matrix: Water
 Data Release Authorized: *MW*
 Reported: 11/15/11

QC Report No: TW57-Kennedy Jenks Consultants
 Project: Ecology Cornet Bay
 Event: 1196012*00
 Date Sampled: NA
 Date Received: NA

Date Analyzed: 11/14/11 13:22
 Instrument/Analyst: PID1/MH

Purge Volume: 5.0 mL
 Dilution Factor: 1.00

CAS Number	Analyte	RL	Result	GAS ID
71-43-2	Benzene	1.0	< 1.0 U	
108-88-3	Toluene	1.0	< 1.0 U	
100-41-4	Ethylbenzene	1.0	< 1.0 U	
179601-23-1	m,p-Xylene	1.0	< 1.0 U	
95-47-6	o-Xylene	1.0	< 1.0 U	
	Gasoline Range Hydrocarbons	0.25	< 0.25 U	---

BETX Surrogate Recovery

Trifluorotoluene	97.4%
Bromobenzene	97.6%

Gasoline Surrogate Recovery

Trifluorotoluene	96.2%
Bromobenzene	96.8%

BETX values reported in µg/L (ppb)
 Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.
 Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.



ORGANICS ANALYSIS DATA SHEET
 BETX by Method SW8021BMod
 TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: MW-8
 SAMPLE

Lab Sample ID: TW57A
 LIMS ID: 11-26184
 Matrix: Water
 Data Release Authorized: *TW*
 Reported: 11/15/11

QC Report No: TW57-Kennedy Jenks Consultants
 Project: Ecology Cornet Bay
 Event: 1196012*00
 Date Sampled: 11/11/11
 Date Received: 11/11/11

Date Analyzed: 11/14/11 16:17
 Instrument/Analyst: PID1/MH

Purge Volume: 5.0 mL
 Dilution Factor: 1.00

CAS Number	Analyte	RL	Result	
71-43-2	Benzene	1.0	33	
108-88-3	Toluene	1.0	< 1.0 U	
100-41-4	Ethylbenzene	1.0	< 1.0 U	
179601-23-1	m,p-Xylene	1.0	1.3	
95-47-6	o-Xylene	1.0	< 1.0 U	
	Gasoline Range Hydrocarbons	0.25	< 0.25 U	GAS ID ---
BETX Surrogate Recovery				
	Trifluorotoluene	99.1%		
	Bromobenzene	98.9%		
Gasoline Surrogate Recovery				
	Trifluorotoluene	97.9%		
	Bromobenzene	96.7%		

BETX values reported in µg/L (ppb)
 Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.
 Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: MW-10
SAMPLE

Lab Sample ID: TW57B

LIMS ID: 11-26185

Matrix: Water

Data Release Authorized: *TWW*

Reported: 11/15/11

QC Report No: TW57-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Event: 1196012*00

Date Sampled: 11/11/11

Date Received: 11/11/11

Date Analyzed: 11/14/11 16:46

Instrument/Analyst: PID1/MH

Purge Volume: 5.0 mL

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
71-43-2	Benzene	1.0	1.1
108-88-3	Toluene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
179601-23-1	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Gasoline Range Hydrocarbons	0.25	< 0.25 U	GAS ID ---
-----------------------------	------	----------	---------------

BETX Surrogate Recovery

Trifluorotoluene	99.1%
Bromobenzene	97.3%

Gasoline Surrogate Recovery

Trifluorotoluene	97.8%
Bromobenzene	97.3%

BETX values reported in µg/L (ppb)
Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.



ORGANICS ANALYSIS DATA SHEET
 BETX by Method SW8021EMod
 TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: MW-9
 SAMPLE

Lab Sample ID: TW57C
 LIMS ID: 11-26186
 Matrix: Water
 Data Release Authorized: *TWW*
 Reported: 11/15/11

QC Report No: TW57-Kennedy Jenks Consultants
 Project: Ecology Cornet Bay
 Event: 1196012*00
 Date Sampled: 11/11/11
 Date Received: 11/11/11

Date Analyzed: 11/14/11 18:43
 Instrument/Analyst: PID1/MH

Purge Volume: 5.0 mL
 Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
71-43-2	Benzene	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
179601-23-1	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Gasoline Range Hydrocarbons 0.25 < 0.25 U GAS ID ---

BETX Surrogate Recovery

Trifluorotoluene	100%
Bromobenzene	99.5%

Gasoline Surrogate Recovery

Trifluorotoluene	99.5%
Bromobenzene	98.2%

BETX values reported in µg/L (ppb)
 Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.
 Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET
 BETX by Method SW8021BMod
 Page 1 of 1

Sample ID: LCS-111411
 LAB CONTROL SAMPLE

Lab Sample ID: LCS-111411
 LIMS ID: 11-26184
 Matrix: Water
 Data Release Authorized: *MMW*
 Reported: 11/15/11

QC Report No: TW57-Kennedy Jenks Consultants
 Project: Ecology Cornet Bay
 Event: 1196012*00
 Date Sampled: NA
 Date Received: NA

Date Analyzed LCS: 11/14/11 12:23
 LCSD: 11/14/11 12:53
 Instrument/Analyst LCS: PID1/MH
 LCSD: PID1/MH
 Purge Volume: 5.0 mL
 Dilution Factor LCS: 1.0
 LCSD: 1.0

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Benzene	3.71	3.70	100%	3.65	3.70	98.6%	1.6%
Toluene	40.6	36.5	111%	40.3	36.5	110%	0.7%
Ethylbenzene	11.3	10.7	106%	11.3	10.7	106%	0.0%
m,p-Xylene	41.7	40.1	104%	41.2	40.1	103%	1.2%
o-Xylene	19.7	18.1	109%	19.6	18.1	108%	0.5%

Reported in µg/L (ppb)

RPD calculated using sample concentrations per SW846.

BETX Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	105%	103%
Bromobenzene	102%	100%

ORGANICS ANALYSIS DATA SHEET
TPHG by Method NWTPHG
Page 1 of 1

Sample ID: LCS-111411
LAB CONTROL SAMPLE

Lab Sample ID: LCS-111411
LIMS ID: 11-26184
Matrix: Water
Data Release Authorized: *mw*
Reported: 11/15/11

QC Report No: TW57-Kennedy Jenks Consultants
Project: Ecology Cornet Bay
Event: 1196012*00
Date Sampled: NA
Date Received: NA

Date Analyzed LCS: 11/14/11 12:23
LCSD: 11/14/11 12:53
Instrument/Analyst LCS: PID1/MH
LCSD: PID1/MH

Purge Volume: 5.0 mL
Dilution Factor LCS: 1.0
LCSD: 1.0

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Gasoline Range Hydrocarbons	1.05	1.00	105%	0.99	1.00	99.0%	5.9%

Reported in mg/L (ppm)

RPD calculated using sample concentrations per SW846.

TPHG Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	105%	102%
Bromobenzene	101%	98.9%

BETX WATER SURROGATE RECOVERY SUMMARY

ARI Job: TW57
Matrix: Water

QC Report No: TW57-Kennedy Jenks Consultants
Project: Ecology Cornet Bay
Event: 1196012*00

<u>Client ID</u>	<u>TFT</u>	<u>BBZ</u>	<u>TOT OUT</u>
MB-111411	97.4%	97.6%	0
LCS-111411	105%	102%	0
LCSD-111411	103%	100%	0
MW-8	99.1%	98.9%	0
MW-10	99.1%	97.3%	0
MW-9	100%	99.5%	0

	LCS/MB LIMITS	QC LIMITS
(TFT) = Trifluorotoluene	(79-120)	(80-120)
(BBZ) = Bromobenzene	(79-120)	(80-120)

Log Number Range: 11-26184 to 11-26186

TPHG WATER SURROGATE RECOVERY SUMMARY

ARI Job: TW57
Matrix: Water

QC Report No: TW57-Kennedy Jenks Consultants
Project: Ecology Cornet Bay
Event: 1196012*00

<u>Client ID</u>	<u>TFT</u>	<u>BBZ</u>	<u>TOT OUT</u>
MB-111411	96.2%	96.8%	0
LCS-111411	105%	101%	0
LCSD-111411	102%	98.9%	0
MW-8	97.9%	96.7%	0
MW-10	97.8%	97.3%	0
MW-9	99.5%	98.2%	0

	<u>LCS/MB LIMITS</u>	<u>QC LIMITS</u>
(TFT) = Trifluorotoluene	(80-120)	(80-120)
(BBZ) = Bromobenzene	(80-120)	(80-120)

Log Number Range: 11-26184 to 11-26186

Data File: /chem3/pid1.i/vpoc1114-1.b/1114a012.d

Date: 14-NOV-2011 12:23

Client ID:

Sample Info: LC91114

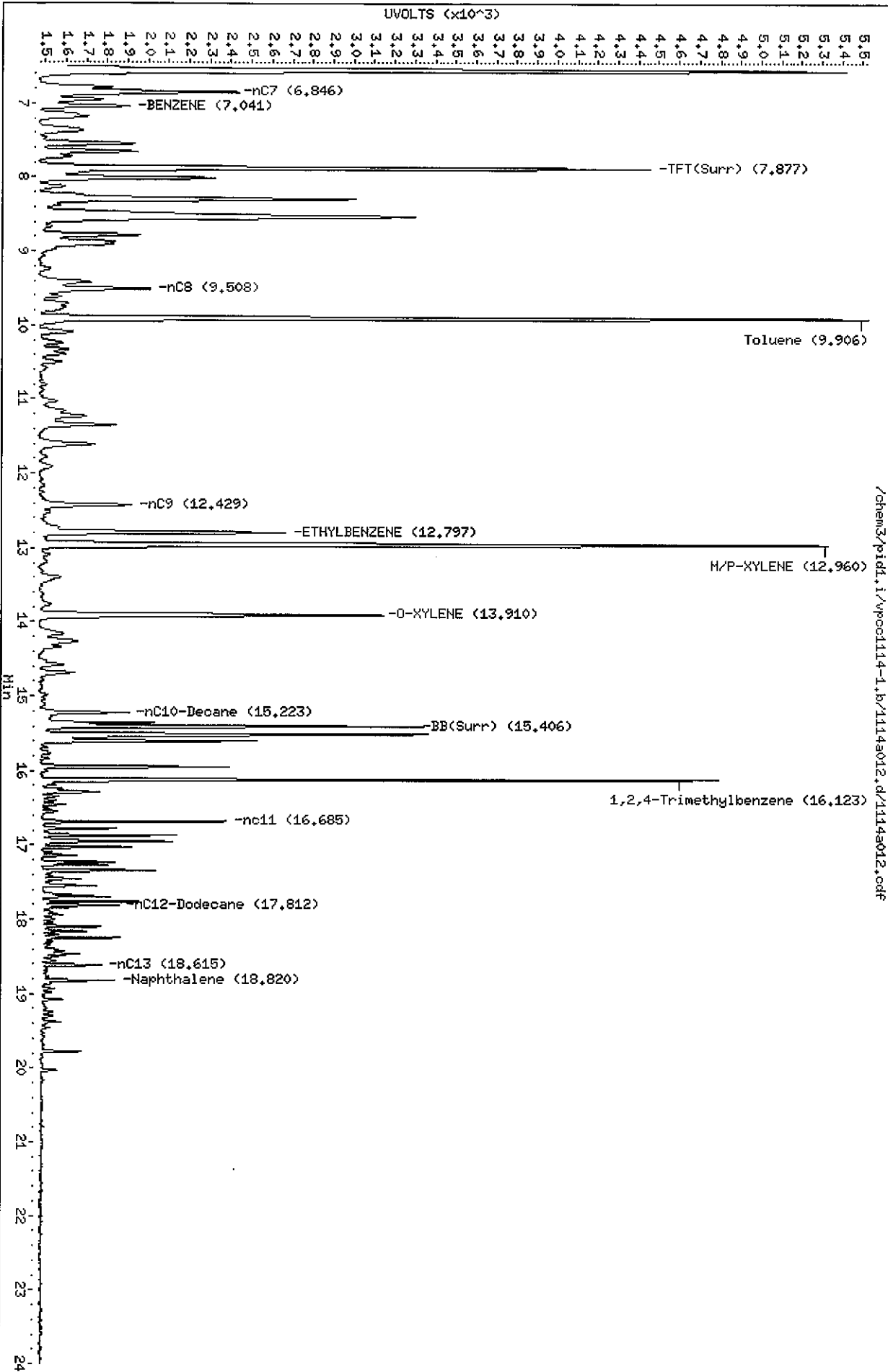
Column phase: RTX 502-2 FID

Instrument: pid1.i

Operator: MH

Column diameter: 0.18

Page 1



TW56: 00078

Data File: /chem3/pid1.i/vpoc1114-2.b/1114s012.d
Date: 14-NOV-2011 12:23

Client ID:

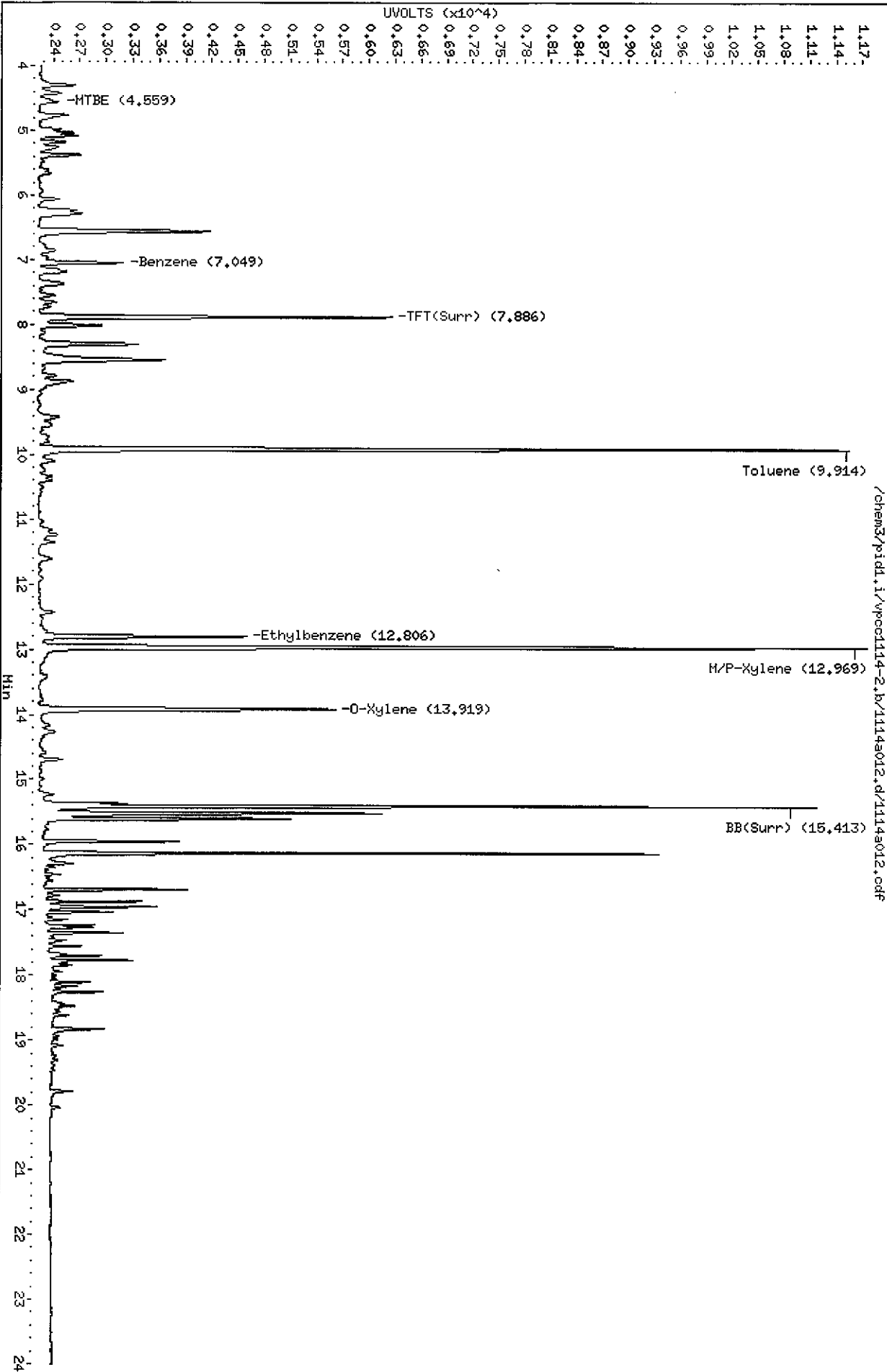
Sample Info: LCS1114

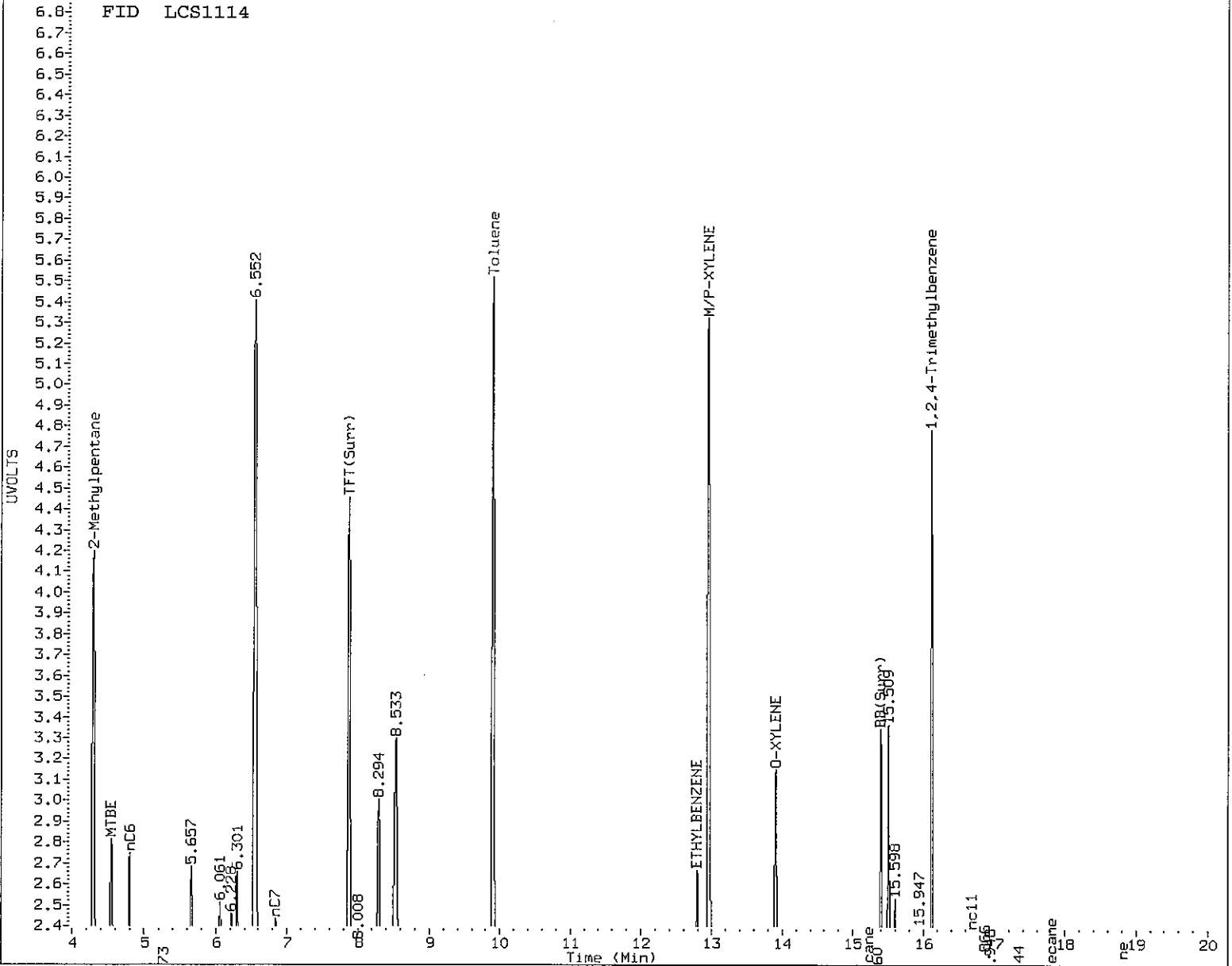
Column phase: RTX 502-2 PID

Instrument: pid1.i

Operator: HH

Column diameter: 0.18





MANUAL INTEGRATION

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: MH Date: 11/15/11

Data File: /chem3/pid1.i/vpoc1114-1.b/1114a013.d

Date: 14-NOV-2011 12:53

Client ID:

Sample Info: LCSD1114

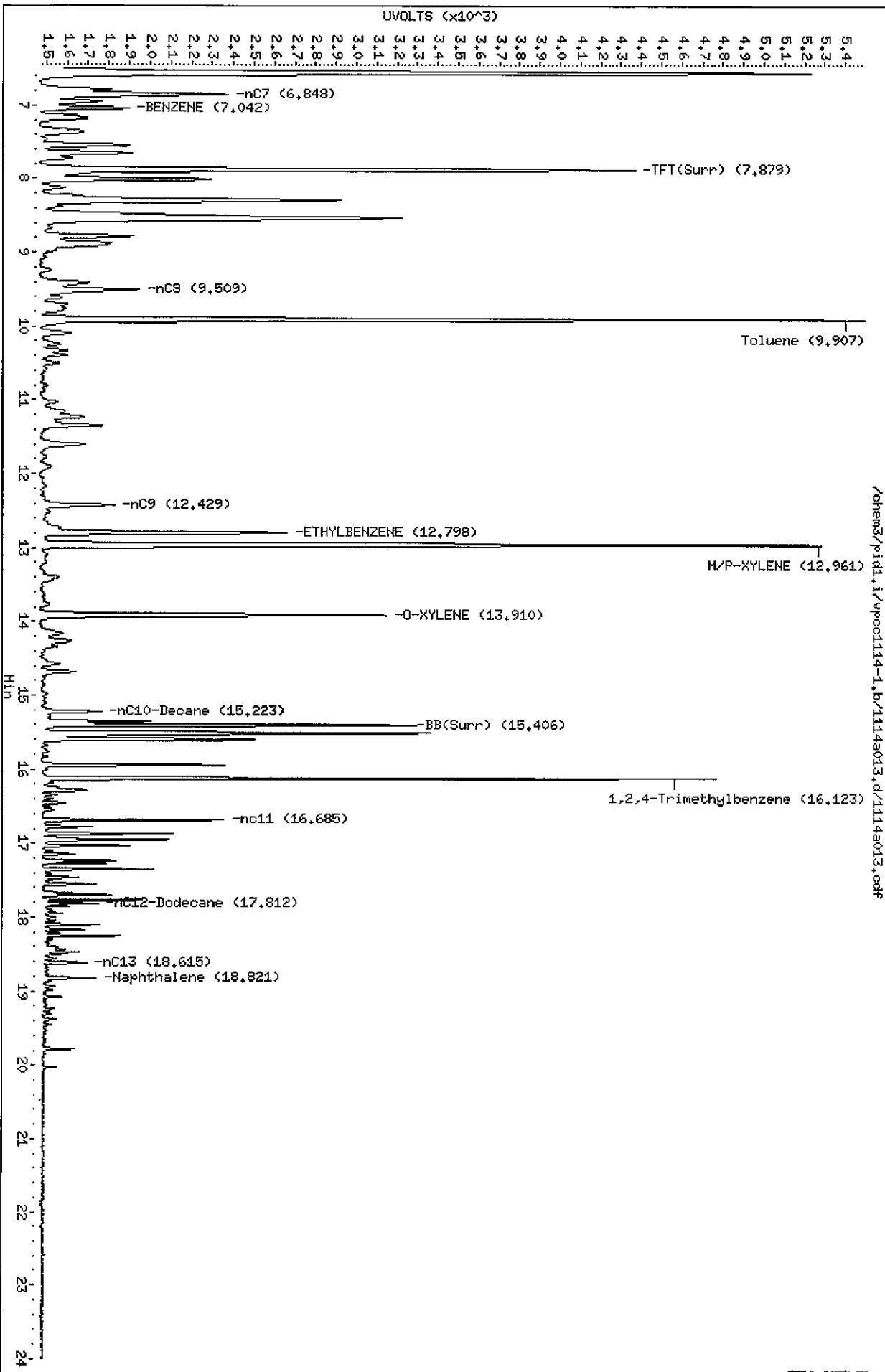
Column phase: RTX 502-2 FID

Instrument: pid1.i

Operator: HH

Column diameter: 0.18

Page 1



TW56: 00002

Data File: /chem3/pid1.i/vpoc1114-2.b/1114s013.d

Date: 14-NOV-2011 12:53

Client ID:

Sample Info: LCSD1114

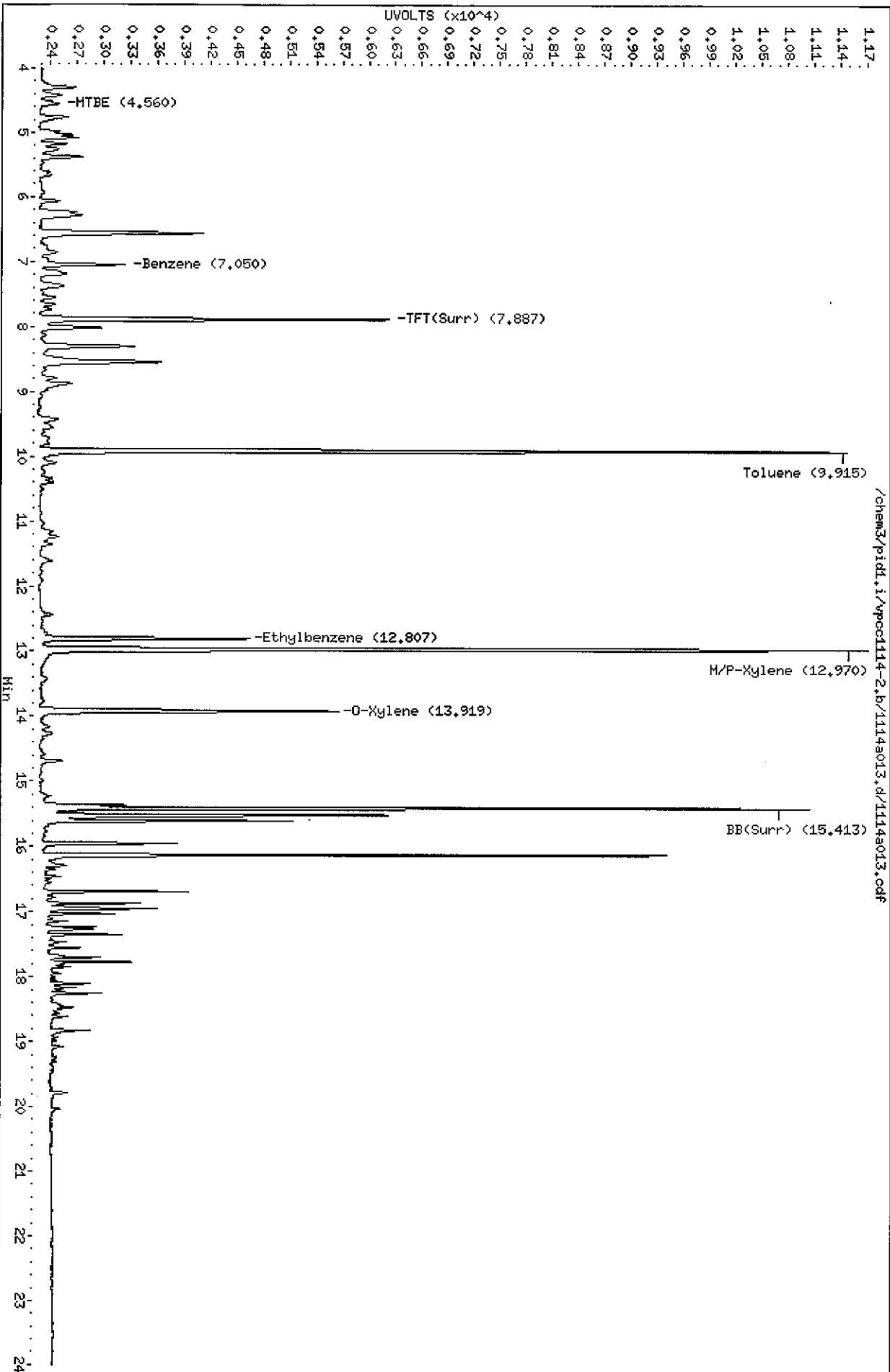
Column phase: RTX 502-2 PID

Instrument: pid1.i

Operator: HH

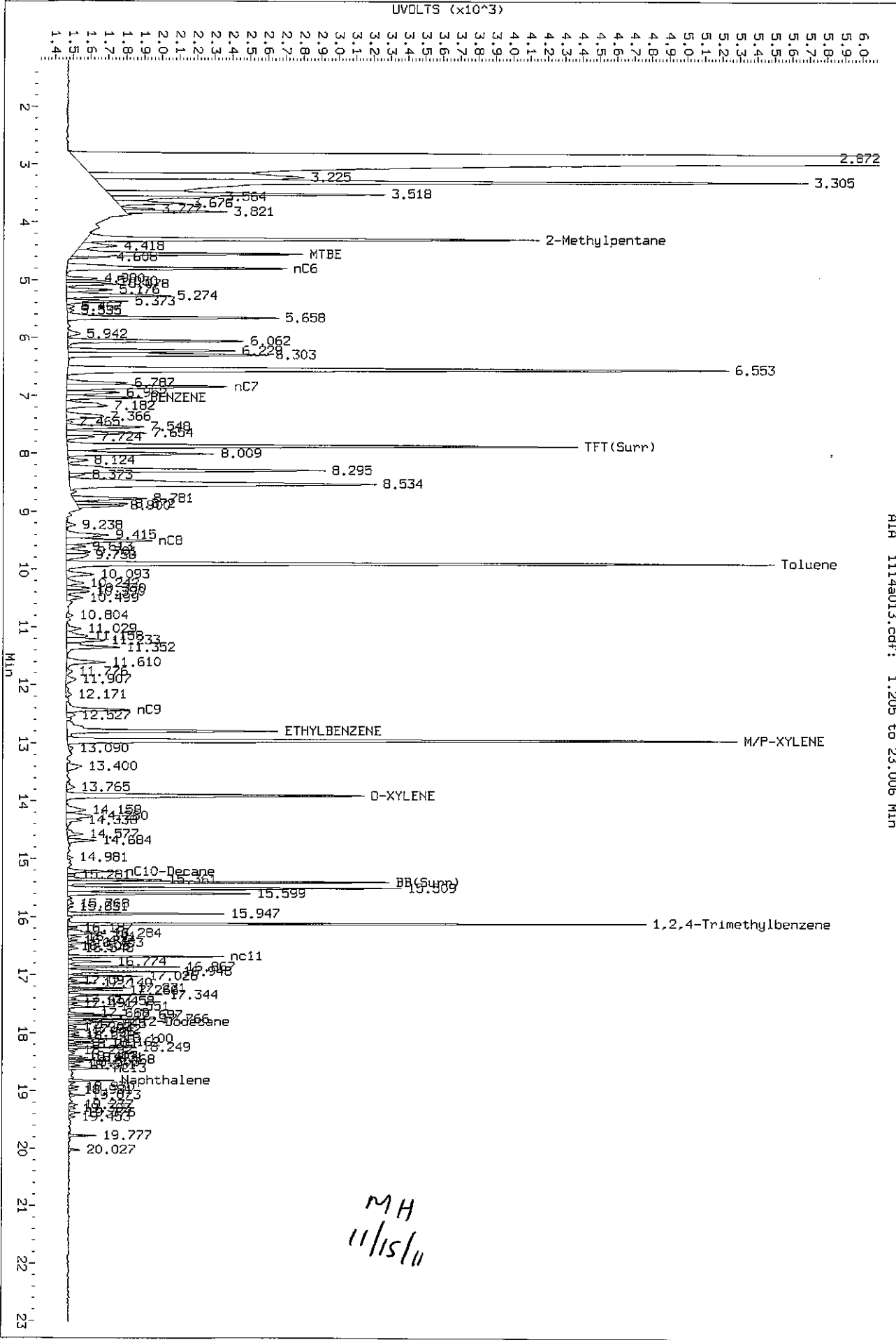
Column diameter: 0.18

Page 1



TW50: 00083

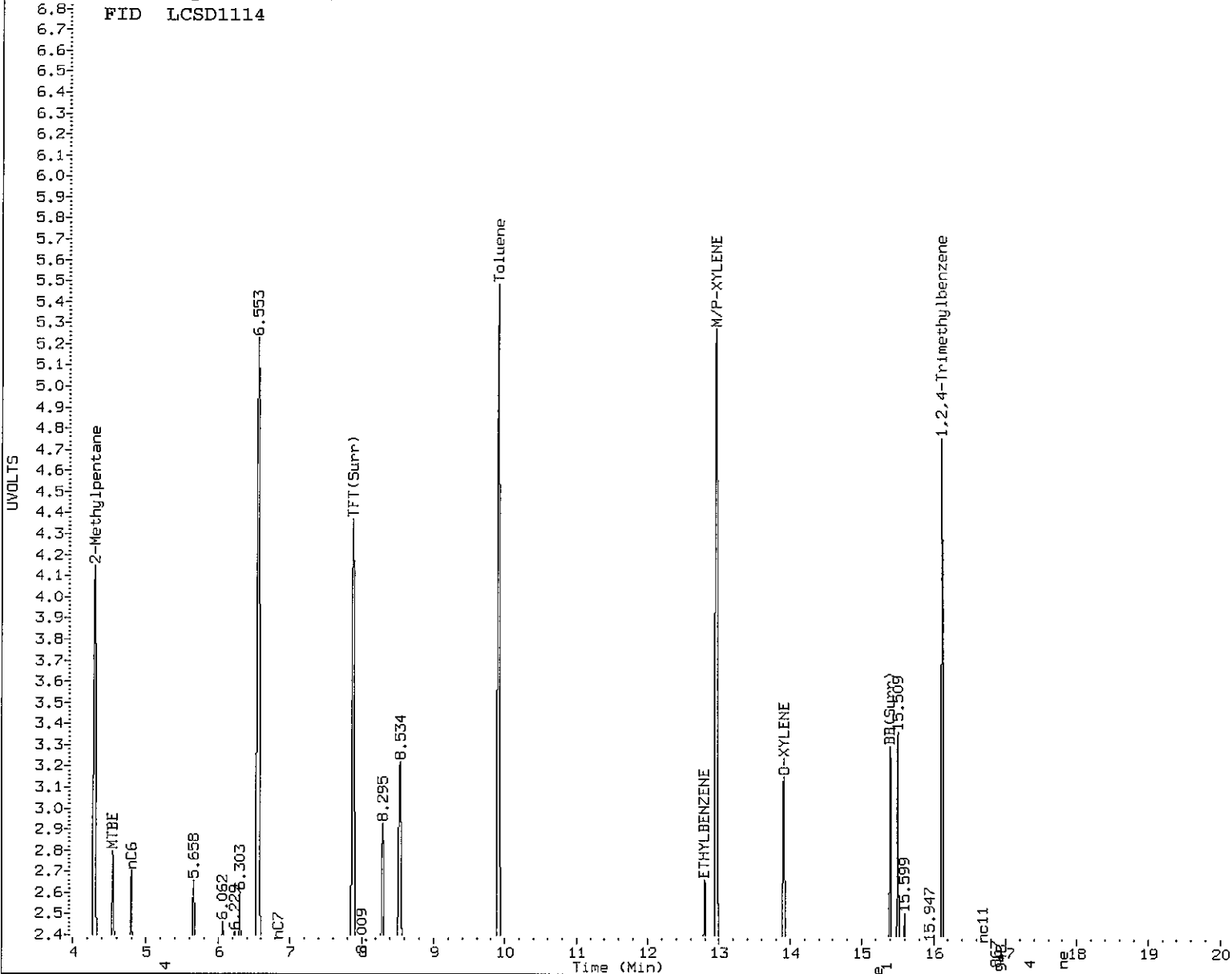
Data File: /chems3/pid1.1/vpcc1114-1.b/1114a013.d/1114a013.cdf
 Injection Date: 14-NOV-2011 12:53
 Instrument: pid1.1
 Client Sample ID:



AIA 1114a013.cdf: 1.205 to 23.006 MIN

MH
11/15/11

FID LCSD1114



MANUAL INTEGRATION

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: MH Date: 11/15/11

Data File: /chem3/pidd.i/vpoc1114-1.b/1114a014.d

Date: 14-NOV-2011 13:22

Client ID:

Sample Info: MB1114

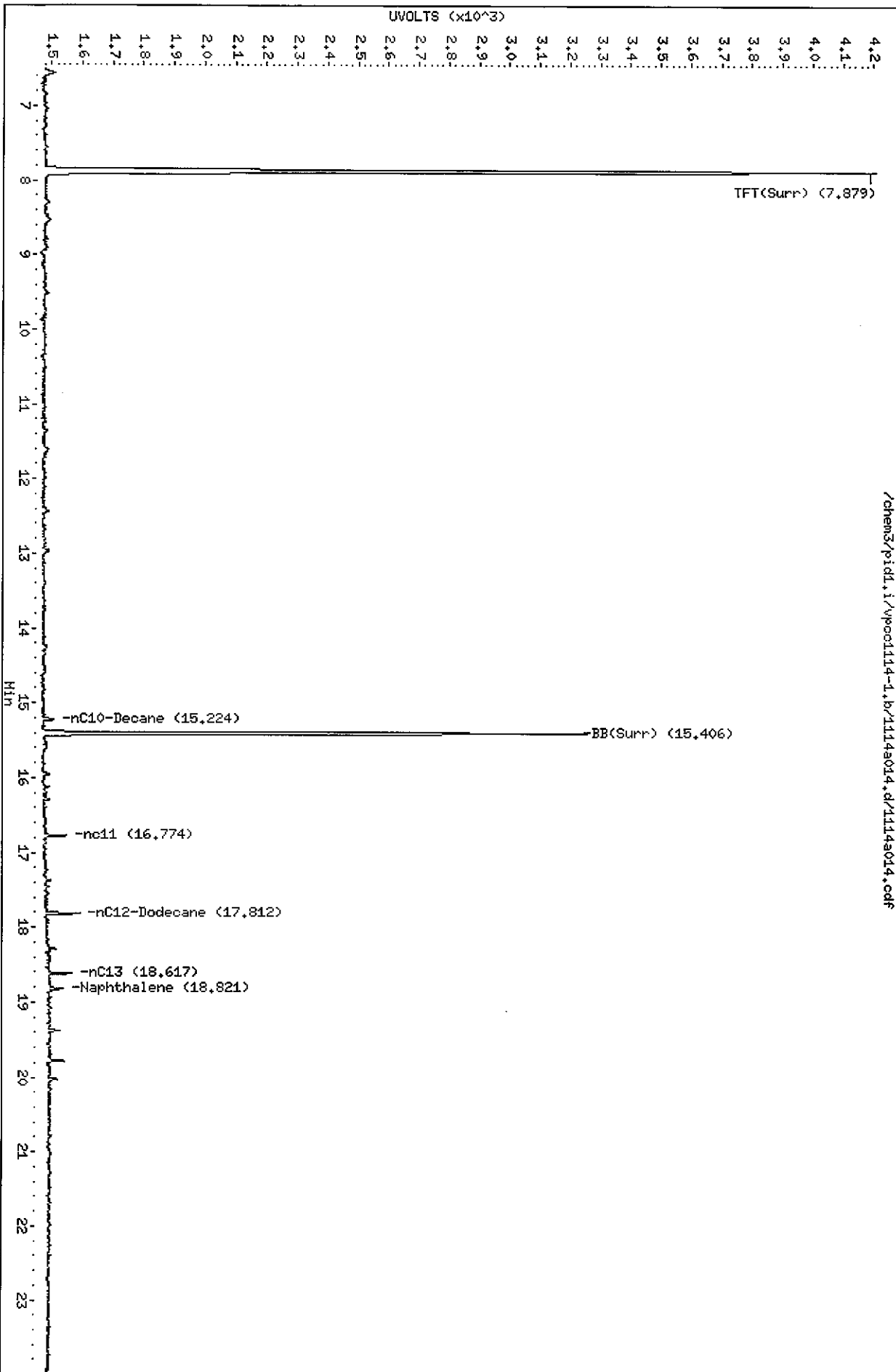
Column phase: RTX 502-2 FID

Instrument: pidd.i

Operator: MH

Column diameter: 0.18

Page 1



TW50 : 00036

Data File: /chem3/pid1.i/vpocd114-2.b/1114a014.d

Date: 14-NOV-2011 13:22

Client ID:

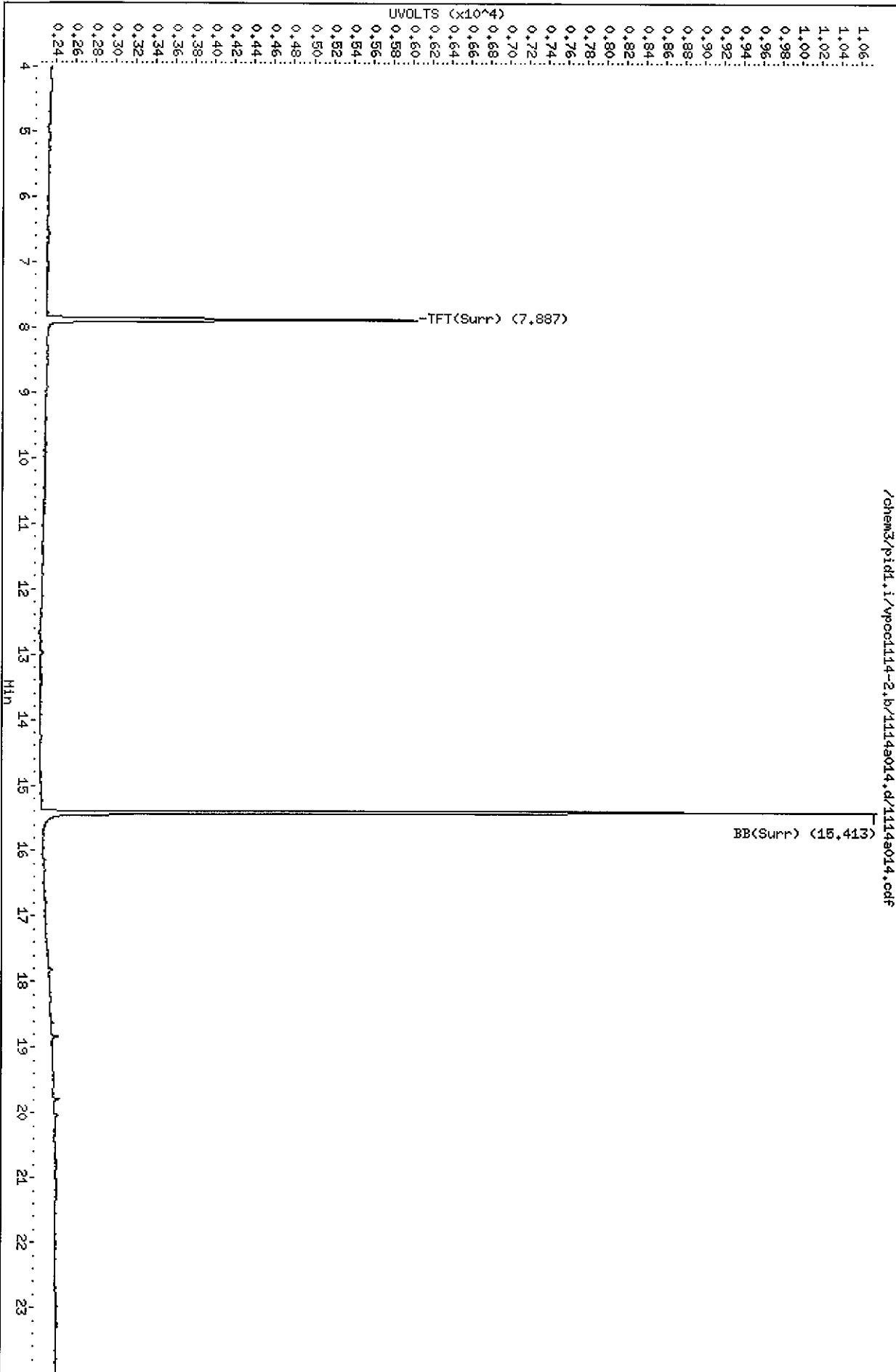
Sample Info: MB114

Column phase: RTX 502-2 PID

Instrument: pid1.i

Operator: HH

Column diameter: 0.18

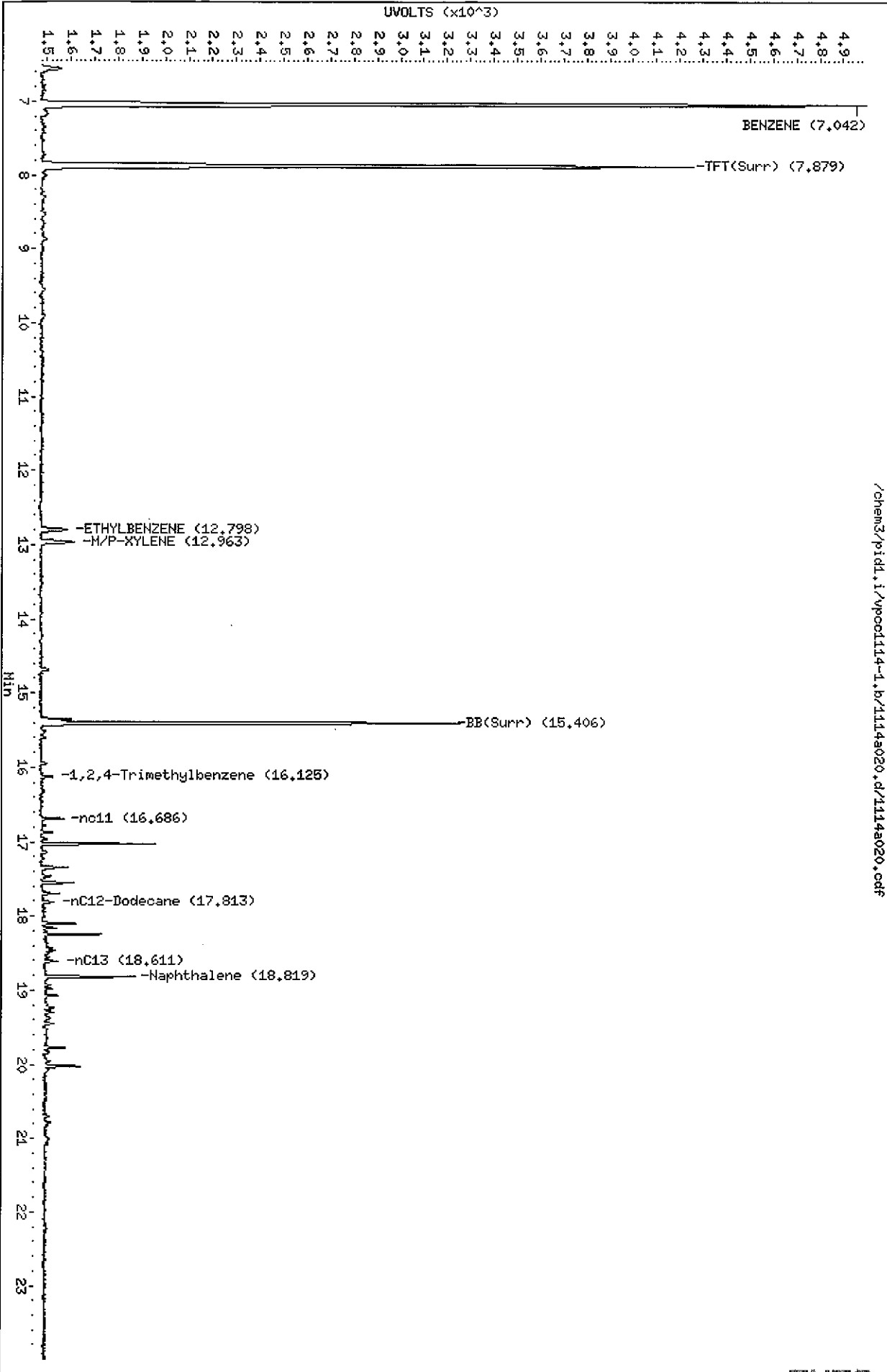


Data File: /chem3/pidl.i/vpool114-1.b/1114a020.d
Date: 14-NOV-2011 16:17
Client ID: MH-8
Sample Info: TW57A

Column phase: RTX 502-2 FID

/chem3/pidl.i/vpool114-1.b/1114a020.d/1114a020.cdf

Instrument: pidl.i
Operator: MH
Column diameter: 0.18



Data File: /chem3/pid1.i/vpoc1114-2.b/1114s020.d

Date: 14-NOV-2011 16:17

Client ID: MW-8

Sample Info: TW57A

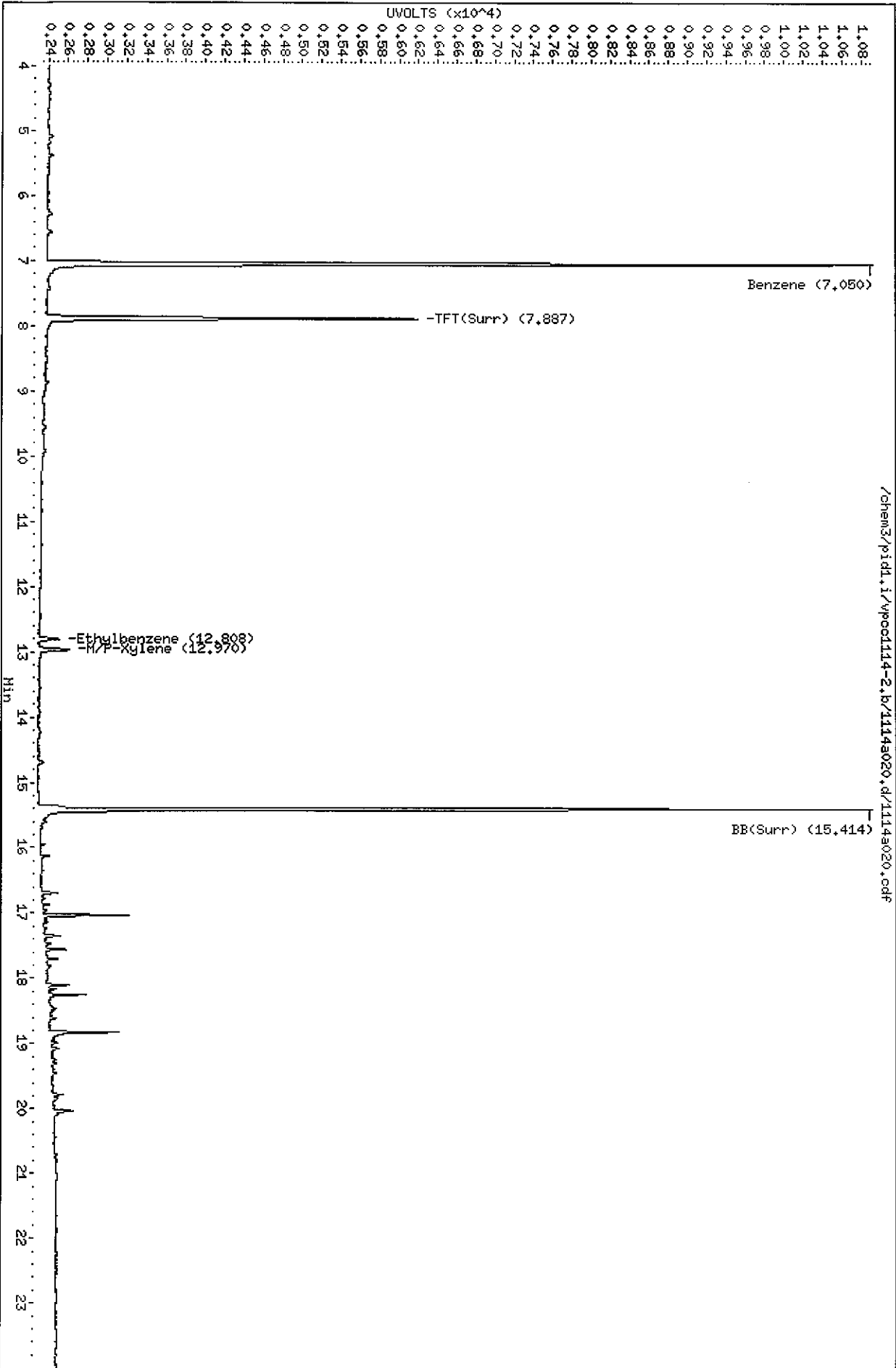
Column phase: RTX 502-2 PID

Instrument: pid1.i

Operator: MH

Column diameter: 0.18

/chem3/pid1.i/vpoc1114-2.b/1114s020.d/1114s020.cdf

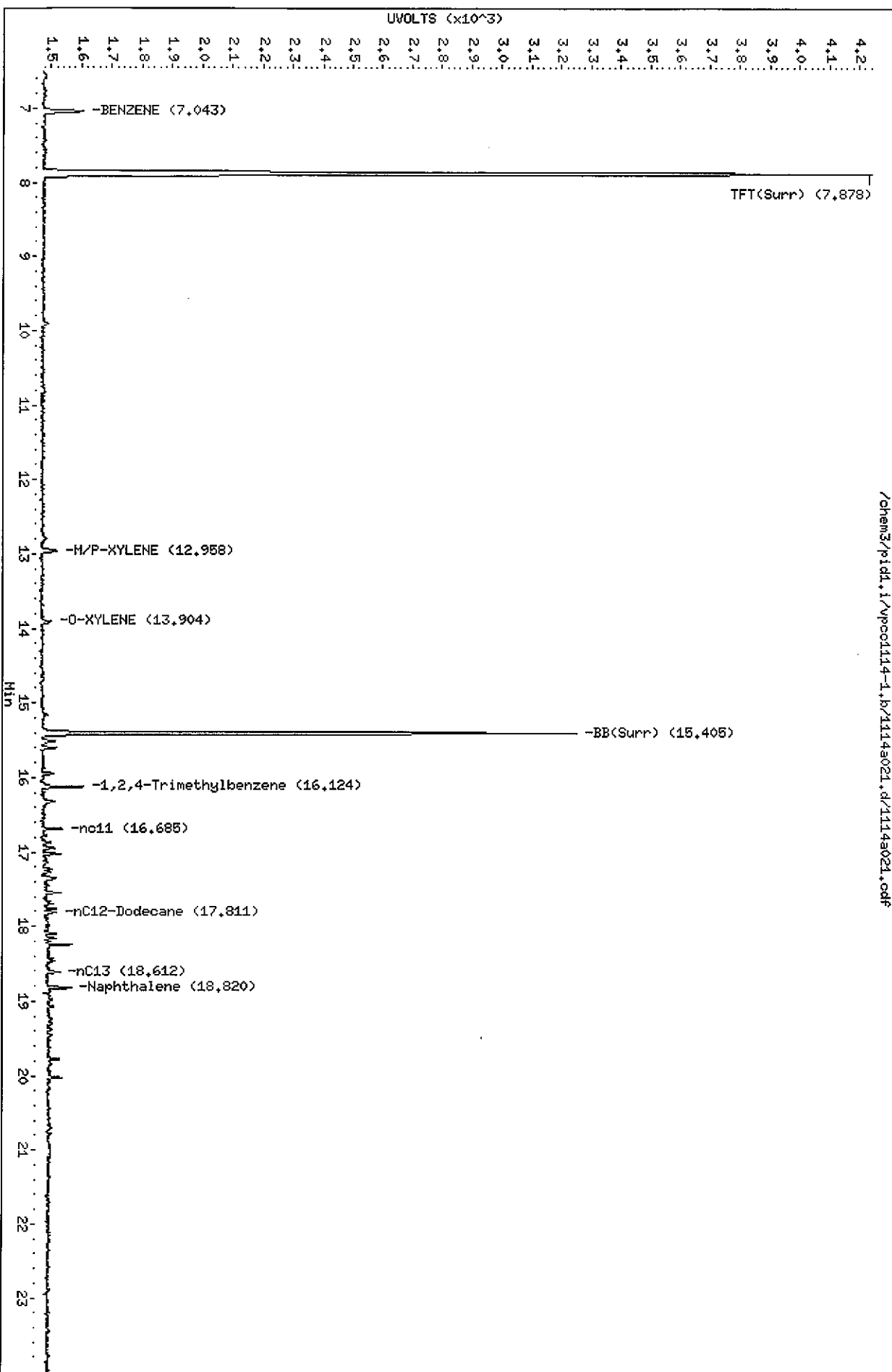


Data File: /chem3/pid1.i/vpcc0114-1.b/1114s021.d
Date: 14-NOV-2011 16:46
Client ID: HW-10
Sample Info: TMS7B

Column Phase: RTX 502-2 FID

/chem3/pid1.i/vpcc0114-1.b/1114s021.d/1114s021.odf

Instrument: pid1.i
Operator: HH
Column diameter: 0.18



Data File: /chem3/pid1.i/vpoc1114-2.b/1114a021.d

Date: 14-NOV-2011 16:46

Client ID: MH-10

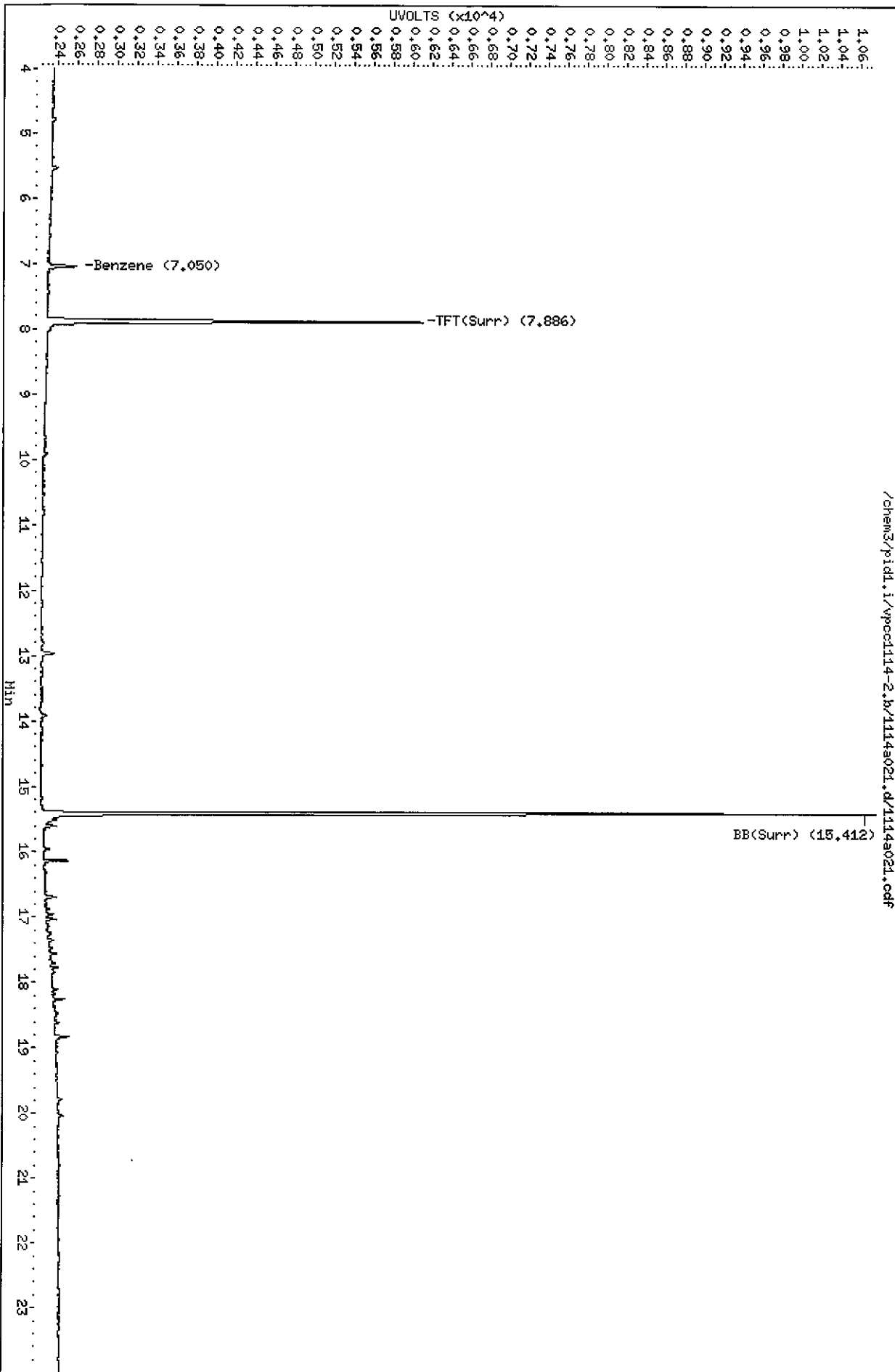
Sample Info: TM57B

Column phase: RTX 502-2 PID

Instrument: pid1.i

Operator: MH

Column diameter: 0.18



/chem3/pid1.i/vpoc1114-2.b/1114a021.d/1114a021.cdf

Data File: /chem3/pid1.i/vpoc1114-1.b/1114a025.d

Date: 14-NOV-2011 18:43

Client ID: MH-9

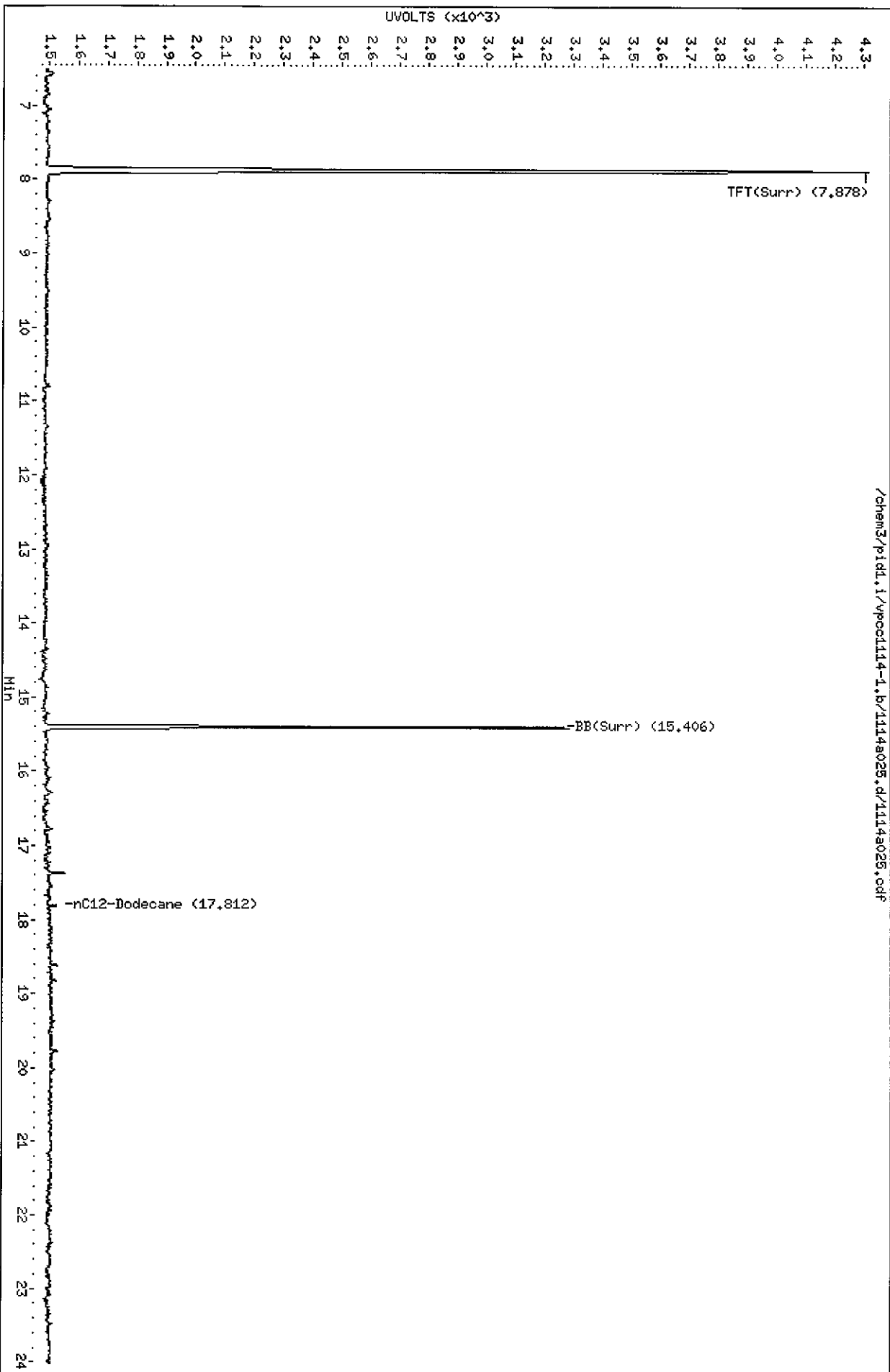
Sample Info: TM57C

Column phase: RTX 502-2 FID

Instrument: pid1.i

Operator: MH

Column diameter: 0.18



000002 . 005071

Data File: /chem3/pid1.i/vpcc1114-2.b/1114s025.d

Date: 14-NOV-2011 18:43

Client ID: MW-9

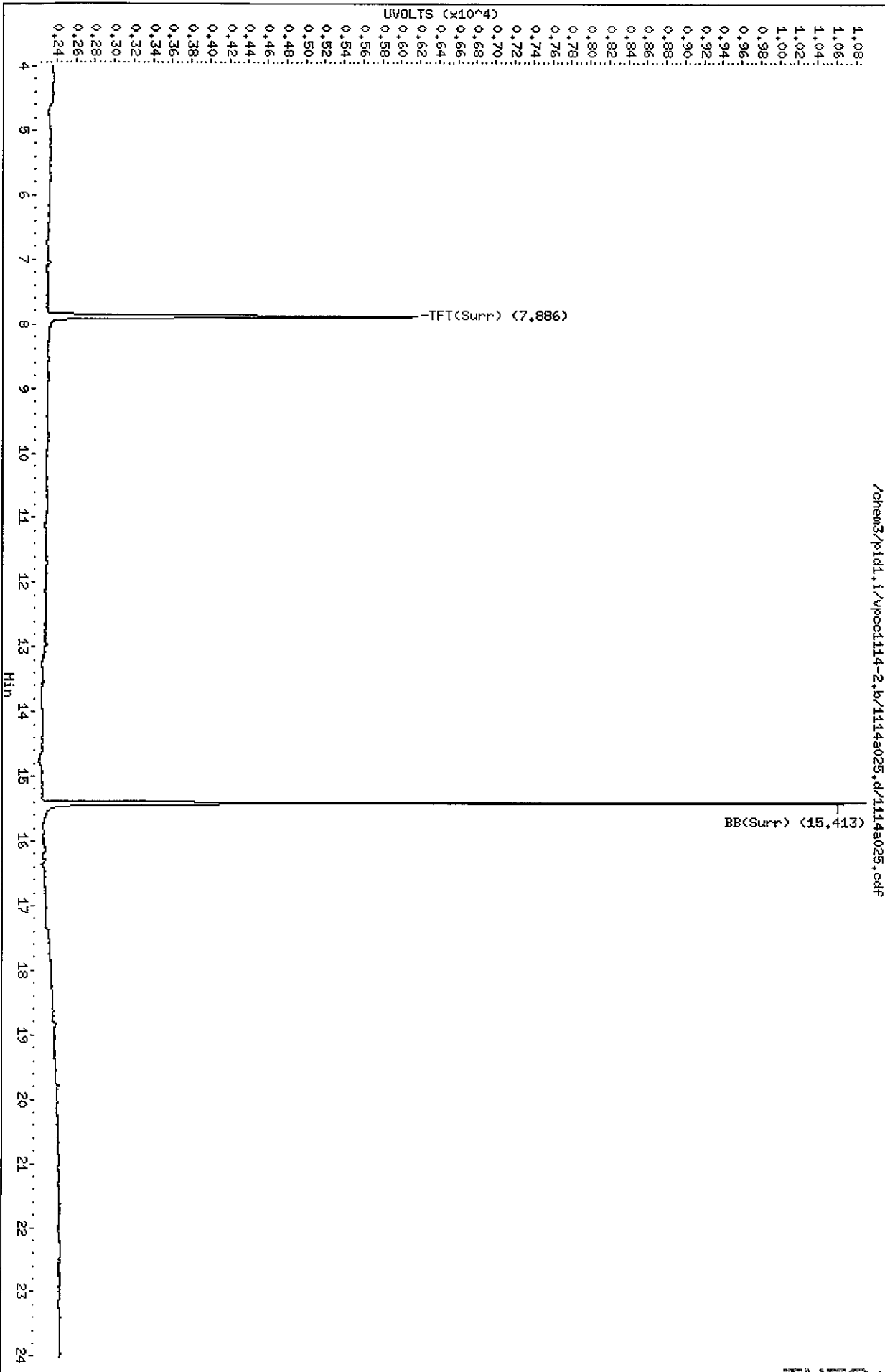
Sample Info: TMS7C

Column phase: RTX 502-2 P11

Instrument: pid1.i

Operator: MH

Column diameter: 0.18



/chem3/pid1.i/vpcc1114-2.b/1114s025.d/1114s025.cdf

00000 : 1450

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021EMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: MB-111411

METHOD BLANK

Lab Sample ID: MB-111411

LIMS ID: 11-26187

Matrix: Soil

Data Release Authorized: *MW*

Reported: 11/15/11

QC Report No: TW58-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Event: 1196012*00

Date Sampled: NA

Date Received: NA

Date Analyzed: 11/14/11 09:39

Instrument/Analyst: PID2/MH

Purge Volume: 5.0 mL

Sample Amount: 100 mg-dry-wt

CAS Number	Analyte	RL	Result	GAS ID
71-43-2	Benzene	12	< 12 U	
108-88-3	Toluene	12	< 12 U	
100-41-4	Ethylbenzene	12	< 12 U	
179601-23-1	m,p-Xylene	25	< 25 U	
95-47-6	o-Xylene	12	< 12 U	
	Gasoline Range Hydrocarbons	5.0	< 5.0 U	---
BETX Surrogate Recovery				
	Trifluorotoluene	110%		
	Bromobenzene	105%		
Gasoline Surrogate Recovery				
	Trifluorotoluene	108%		
	Bromobenzene	105%		

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: KJ-B59-2

SAMPLE

Lab Sample ID: TW58A

LIMS ID: 11-26187

Matrix: Soil

Data Release Authorized: *MMW*

Reported: 11/15/11

QC Report No: TW58-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Event: 1196012*00

Date Sampled: 11/11/11

Date Received: 11/11/11

Date Analyzed: 11/14/11 17:19

Instrument/Analyst: PID2/MH

Purge Volume: 5.0 mL

Sample Amount: 6.2 mg-dry-wt

Percent Moisture: 21.8%

CAS Number	Analyte	RL	Result
71-43-2	Benzene	200	16,000
108-88-3	Toluene	200	30,000
100-41-4	Ethylbenzene	200	4,200
179601-23-1	m,p-Xylene	400	18,000
95-47-6	o-Xylene	200	6,600

Gasoline Range Hydrocarbons	80	360	GAS ID GAS
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BETX Surrogate Recovery

Trifluorotoluene	106%
Bromobenzene	106%

Gasoline Surrogate Recovery

Trifluorotoluene	105%
Bromobenzene	105%

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.



ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: KJ-B59-9

SAMPLE

Lab Sample ID: TW58B

LIMS ID: 11-26188

Matrix: Soil

Data Release Authorized: *WV*

Reported: 11/15/11

QC Report No: TW58-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Event: 1196012*00

Date Sampled: 11/11/11

Date Received: 11/11/11

Date Analyzed: 11/14/11 18:38

Instrument/Analyst: PID2/MH

Purge Volume: 5.0 mL

Sample Amount: 80 mg-dry-wt

Percent Moisture: 17.2%

CAS Number	Analyte	RL	Result
71-43-2	Benzene	16	< 16 U
108-88-3	Toluene	16	16
100-41-4	Ethylbenzene	16	< 16 U
179601-23-1	m,p-Xylene	31	< 31 U
95-47-6	o-Xylene	16	< 16 U

Gasoline Range Hydrocarbons	6.2	< 6.2 U	GAS ID ---
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BETX Surrogate Recovery

Trifluorotoluene	103%
Bromobenzene	104%

Gasoline Surrogate Recovery

Trifluorotoluene	104%
Bromobenzene	106%

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.



ORGANICS ANALYSIS DATA SHEET
 BETX by Method SW8021EMod
 TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: KJ-B60-14
 SAMPLE

Lab Sample ID: TW58C
 LIMS ID: 11-26189
 Matrix: Soil
 Data Release Authorized: *WV*
 Reported: 11/15/11

QC Report No: TW58-Kennedy Jenks Consultants
 Project: Ecology Cornet Bay
 Event: 1196012*00
 Date Sampled: 11/11/11
 Date Received: 11/11/11

Date Analyzed: 11/14/11 19:04
 Instrument/Analyst: PID2/MH

Purge Volume: 5.0 mL
 Sample Amount: 87 mg-dry-wt
 Percent Moisture: 15.0%

CAS Number	Analyte	RL	Result	GAS ID
71-43-2	Benzene	14	300	
108-88-3	Toluene	14	< 14 U	
100-41-4	Ethylbenzene	14	< 14 U	
179601-23-1	m,p-Xylene	29	< 29 U	
95-47-6	o-Xylene	14	< 14 U	
	Gasoline Range Hydrocarbons	5.8	< 5.8 U	---
BETX Surrogate Recovery				
	Trifluorotoluene	102%		
	Bromobenzene	102%		
Gasoline Surrogate Recovery				
	Trifluorotoluene	104%		
	Bromobenzene	102%		

BETX values reported in µg/kg (ppb)
 Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.
 Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.
 Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.



ORGANICS ANALYSIS DATA SHEET
 BETX by Method SW8021BMod
 TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: KJ-B60-20
 SAMPLE

Lab Sample ID: TW58D
 LIMS ID: 11-26190
 Matrix: Soil
 Data Release Authorized: *WJW*
 Reported: 11/15/11

QC Report No: TW58-Kennedy Jenks Consultants
 Project: Ecology Cornet Bay
 Event: 1196012*00
 Date Sampled: 11/11/11
 Date Received: 11/11/11

Date Analyzed: 11/14/11 19:30
 Instrument/Analyst: PID2/MH

Purge Volume: 5.0 mL
 Sample Amount: 65 mg-dry-wt
 Percent Moisture: 24.1%

CAS Number	Analyte	RL	Result	GAS ID
71-43-2	Benzene	19	< 19 U	
108-88-3	Toluene	19	< 19 U	
100-41-4	Ethylbenzene	19	< 19 U	
179601-23-1	m,p-Xylene	38	< 38 U	
95-47-6	o-Xylene	19	< 19 U	
	Gasoline Range Hydrocarbons	7.7	< 7.7 U	---

BETX Surrogate Recovery

Trifluorotoluene	103%
Bromobenzene	104%

Gasoline Surrogate Recovery

Trifluorotoluene	105%
Bromobenzene	104%

BETX values reported in µg/kg (ppb)
 Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ORGANICS ANALYSIS DATA SHEET
 BETX by Method SW8021BMod
 Page 1 of 1

Sample ID: LCS-111411
 LAB CONTROL SAMPLE

Lab Sample ID: LCS-111411
 LIMS ID: 11-26187
 Matrix: Soil
 Data Release Authorized: *MW*
 Reported: 11/15/11

QC Report No: TW58-Kennedy Jenks Consultants
 Project: Ecology Cornet Bay
 Event: 1196012*00
 Date Sampled: NA
 Date Received: NA

Date Analyzed LCS: 11/14/11 08:47
 LCSD: 11/14/11 09:12
 Instrument/Analyst LCS: PID2/MH
 LCSD: PID2/MH

Purge Volume: 5.0 mL
 Sample Amount LCS: 100 mg-dry-wt
 LCSD: 100 mg-dry-wt

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Benzene	178	185	96.2%	174	185	94.1%	2.3%
Toluene	2060	1820	113%	2040	1820	112%	1.0%
Ethylbenzene	609	535	114%	600	535	112%	1.5%
m,p-Xylene	2390	2000	120%	2370	2000	118%	0.8%
o-Xylene	1050	905	116%	1040	905	115%	1.0%

Reported in µg/kg (ppb)

RPD calculated using sample concentrations per SW846.

BETX Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	102%	107%
Bromobenzene	98.3%	101%



ORGANICS ANALYSIS DATA SHEET
 TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: LCS-111411
 LAB CONTROL SAMPLE

Lab Sample ID: LCS-111411
 LIMS ID: 11-26187
 Matrix: Soil
 Data Release Authorized: *MMW*
 Reported: 11/15/11

QC Report No: TW58-Kennedy Jenks Consultants
 Project: Ecology Cornet Bay
 Event: 1196012*00
 Date Sampled: NA
 Date Received: NA

Date Analyzed LCS: 11/14/11 08:47
 LCSD: 11/14/11 09:12
 Instrument/Analyst LCS: PID2/MH
 LCSD: PID2/MH

Purge Volume: 5.0 mL
 Sample Amount LCS: 100 mg-dry-wt
 LCSD: 100 mg-dry-wt

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Gasoline Range Hydrocarbons	56.4	50.0	113%	52.6	50.0	105%	7.0%

Reported in mg/kg (ppm)

RPD calculated using sample concentrations per SW846.

TPHG Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	101%	107%
Bromobenzene	98.4%	101%

BETX SOIL SURROGATE RECOVERY SUMMARY

ARI Job: TW58
Matrix: Soil

QC Report No: TW58-Kennedy Jenks Consultants
Project: Ecology Cornet Bay
Event: 1196012*00

<u>Client ID</u>	<u>TFT</u>	<u>BBZ</u>	<u>TOT OUT</u>
MB-111411	110%	105%	0
LCS-111411	102%	98.3%	0
LCSD-111411	107%	101%	0
KJ-B59-2	106%	106%	0
KJ-B59-9	103%	104%	0
KJ-B60-14	102%	102%	0
KJ-B60-20	103%	104%	0

	LCS/MB LIMITS	QC LIMITS
(TFT) = Trifluorotoluene	(80-120)	(68-124)
(BBZ) = Bromobenzene	(77-120)	(62-134)

Log Number Range: 11-26187 to 11-26190

TPHG SOIL SURROGATE RECOVERY SUMMARY

ARI Job: TW58
Matrix: Soil

QC Report No: TW58-Kennedy Jenks Consultants
Project: Ecology Cornet Bay
Event: 1196012*00

<u>Client ID</u>	<u>BFB</u>	<u>TFT</u>	<u>BBZ</u>	<u>TOT</u>	<u>OUT</u>
MB-111411	NA	108%	105%	0	
LCS-111411	NA	101%	98.4%	0	
LCSD-111411	NA	107%	101%	0	
KJ-B59-2	NA	105%	105%	0	
KJ-B59-9	NA	104%	106%	0	
KJ-B60-14	NA	104%	102%	0	
KJ-B60-20	NA	105%	104%	0	

	<u>LCS/MB LIMITS</u>	<u>QC LIMITS</u>
(BFB) = Bromofluorobenzene	(70-130)	(70-130)
(TFT) = Trifluorotoluene	(80-120)	(66-123)
(BBZ) = Bromobenzene	(80-120)	(62-130)

Log Number Range: 11-26187 to 11-26190

Data File: /chem3/pid2.i/111114-1.b/11149004.d

Date: 14-NOV-2011 08:47

Client ID:

Sample Info: LCS1114

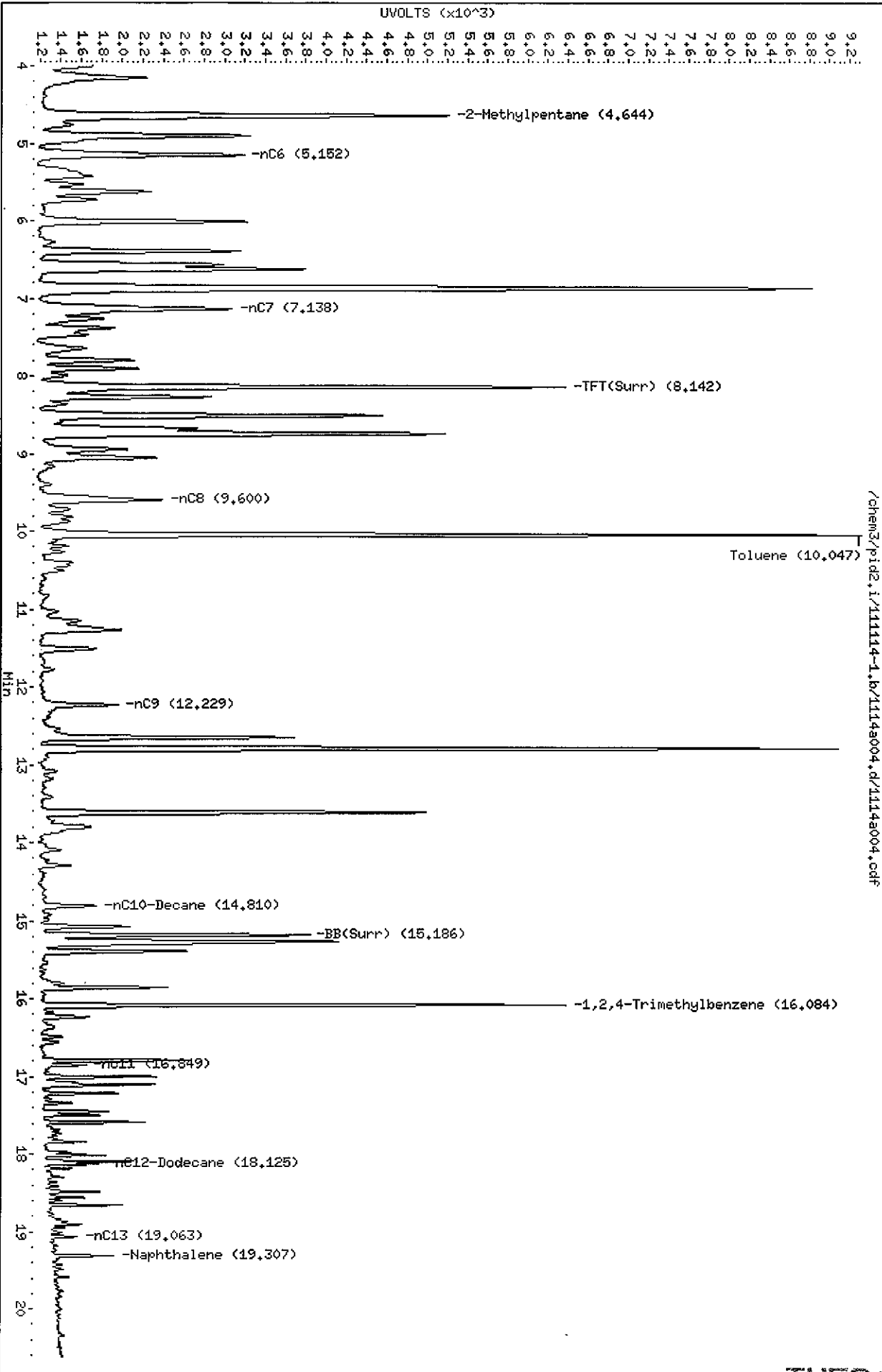
Column phase: RTX 502-2 FID

Instrument: pid2.i

Operator: HH

Column diameter: 0.18

/chem3/pid2.i/111114-1.b/11149004.d/11149004.cdf



Data File: /chem3/pid2.i/111114-2.b/11149004.d

Date: 14-NOV-2011 08:47

Client ID:

Sample Info: LCS1114

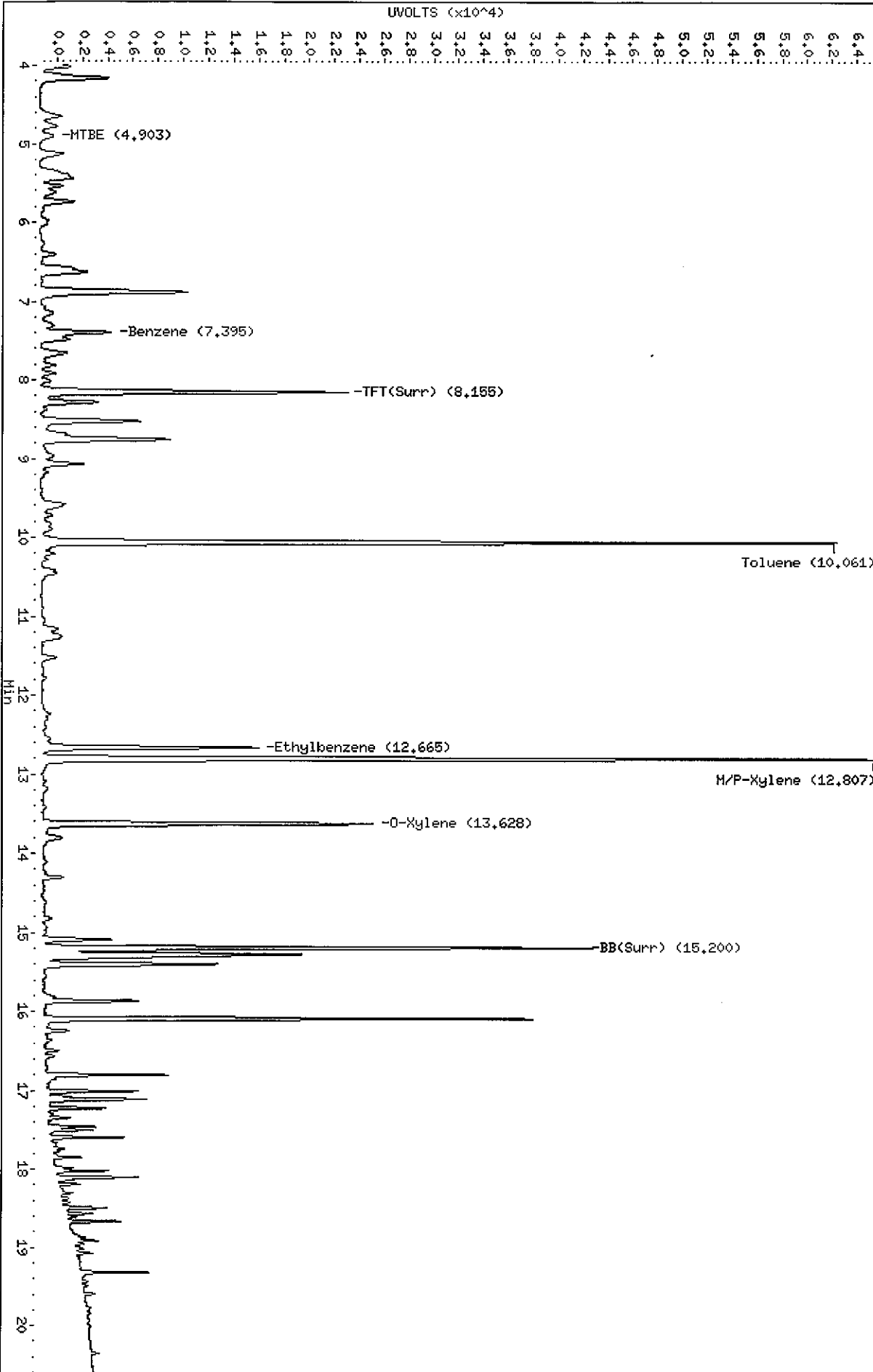
Instrument: pid2.i

Operator: NH

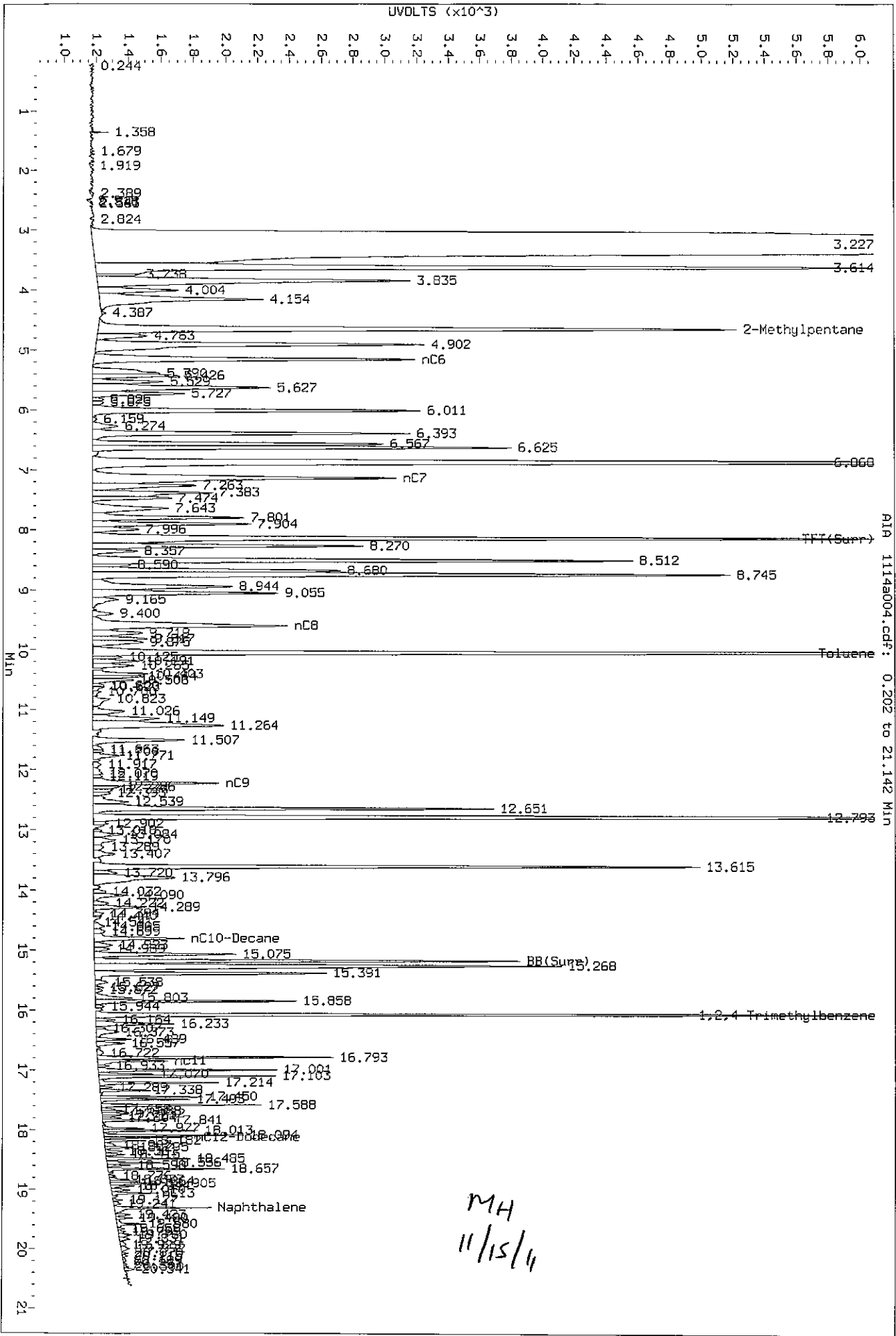
Column diameter: 0.18

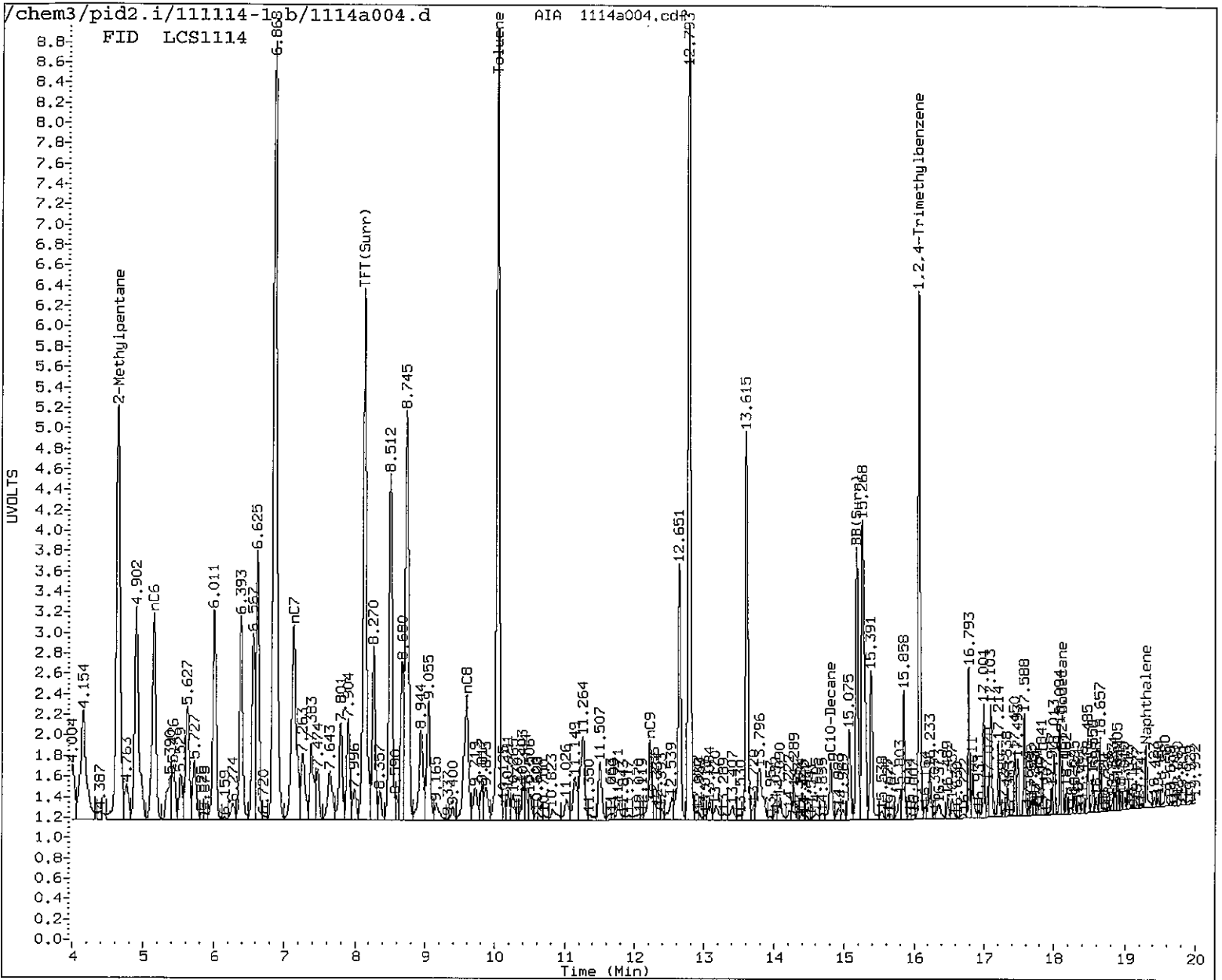
Column phase: RTX 502-2 PID

/chem3/pid2.i/111114-2.b/11149004.d/11149004.cdf



Data File: /chem3/pid2.i/111114-1.b/1114a004.d/1114a004.cdf
 Injection Date: 14-NOV-2011 08:47
 Instrument: pid2.1
 Client Sample ID:





MANUAL INTEGRATION

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: MH Date: 11/15/11

Data File: /chem3/pid2.i/111114-1.b/1114a005.d

Date: 14-NOV-2011 09:12

Client ID:

Sample Info: LCSD1114

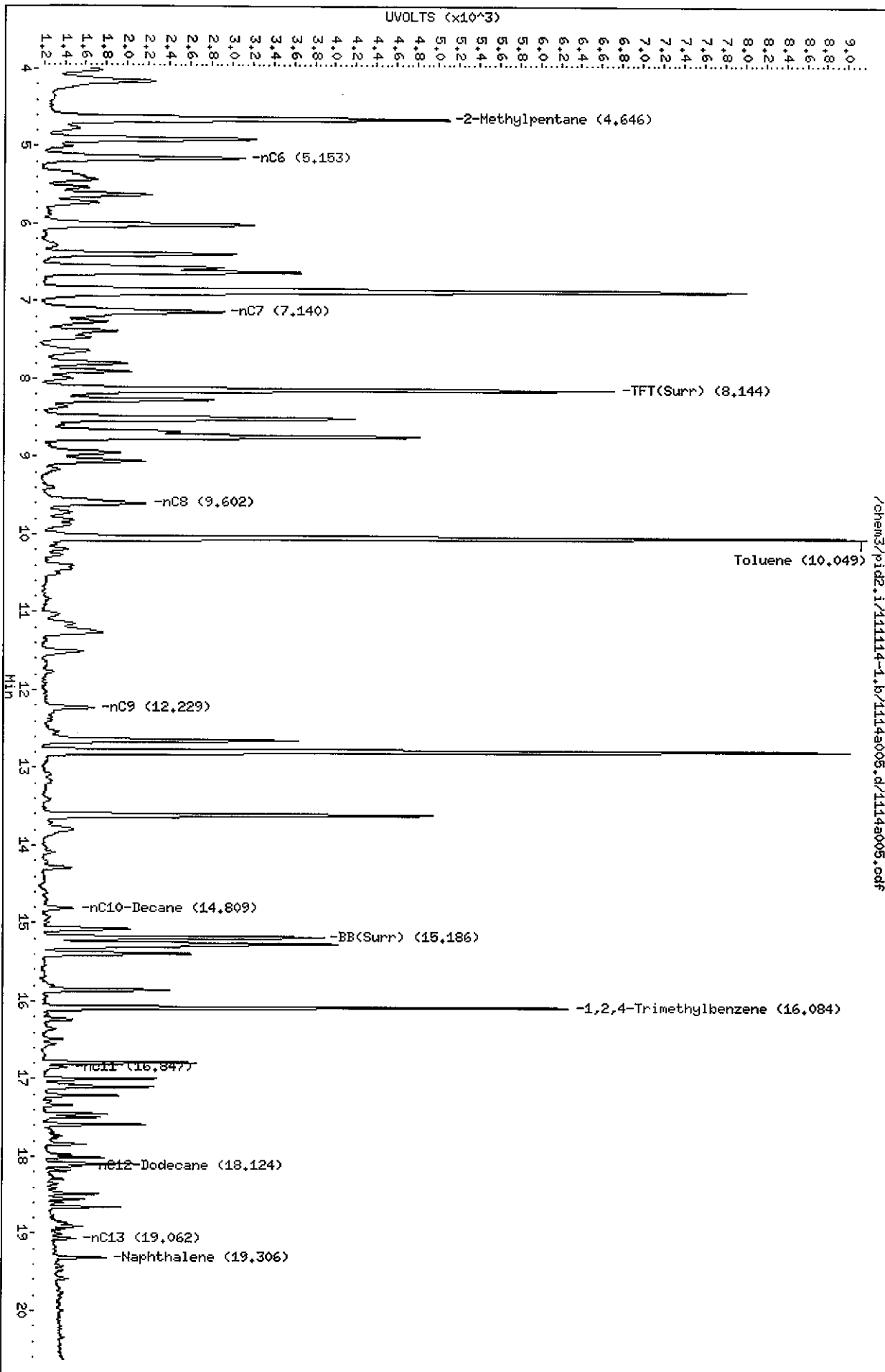
Column phase: RTX 502-2 FID

Instrument: pid2.i

Operator: MH

Column diameter: 0.18

/chem3/pid2.i/111114-1.b/1114a005.d/1114a005.cdf



Data File: /chem3/pid2.i/111114-2.b/11149005.d

Date: 14-NOV-2011 09:12

Client ID:

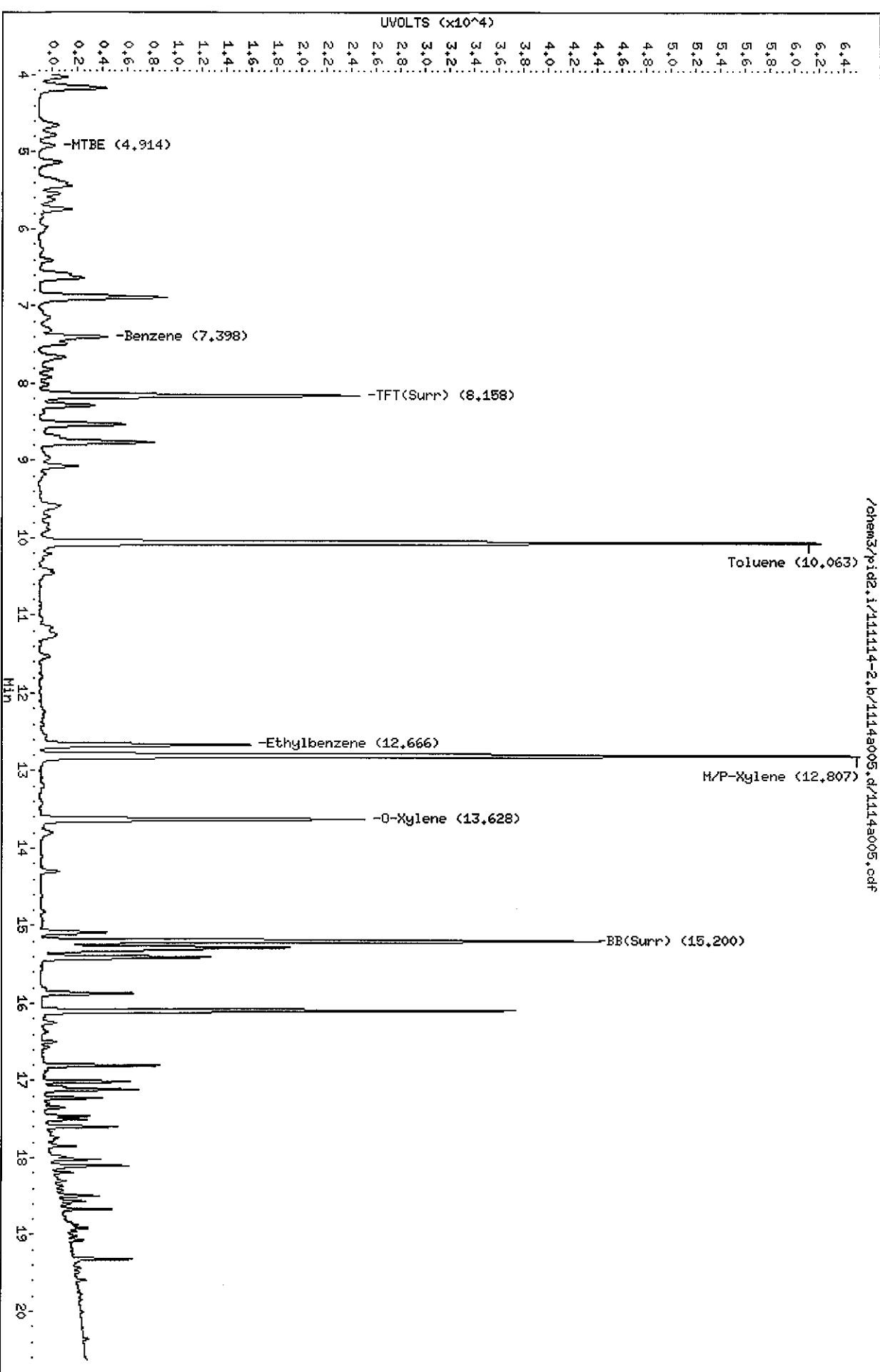
Sample Info: LCSD1114

Column phase: RTX 502-2 PID

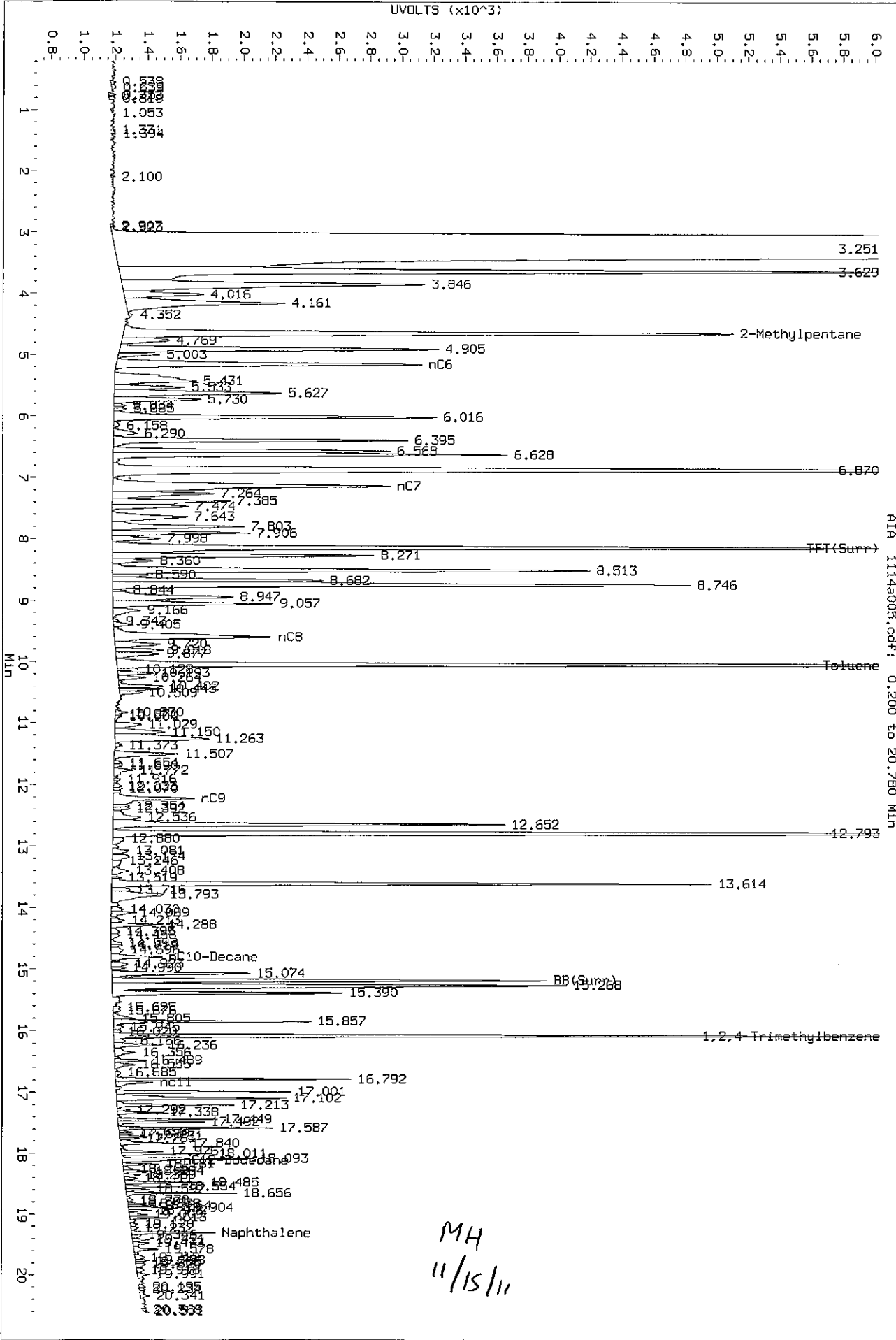
Instrument: pid2.i

Operator: HH

Column diameter: 0.18



Data File: /chem3/pid2.1/111114-1.b/1114a005.d/1114a005.cdf
 Injection Date: 14-NOV-2011 09:12
 Instrument: pid2.1
 Client Sample ID:



AIA 1114a005.cdf: 0.200 to 20.780 MIN

Data File: /chem3/pid2.i/111114-1.b/1114a006.d

Date: 14-NOV-2011 09:39

Client ID:

Sample Info: MB1114

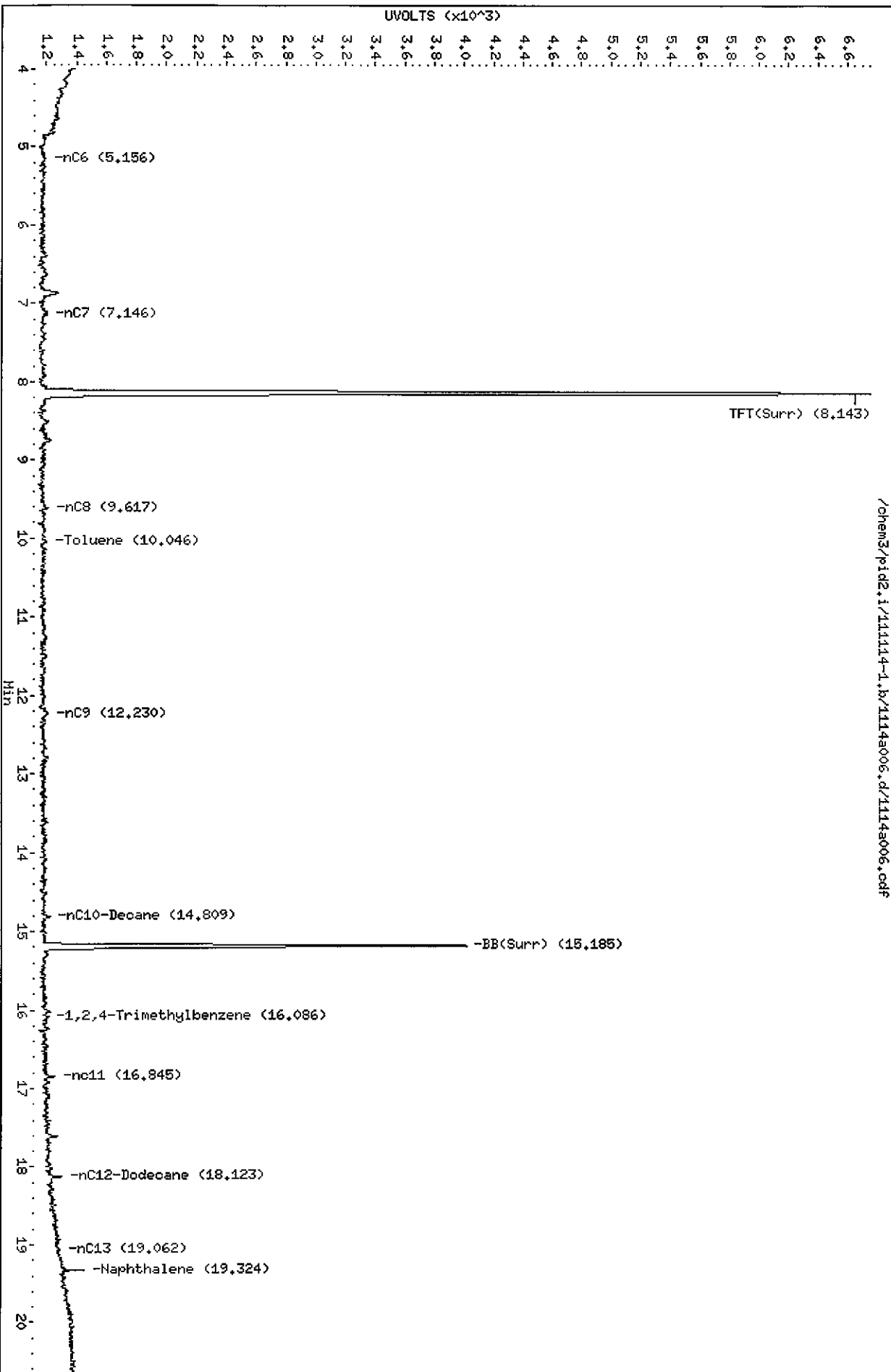
Column phase: RTX 502-2 FID

Instrument: pid2.i

Operator: MH

Column diameter: 0.18

Page 1



Data File: /chem3/pid2.i/111114-2.b/1114a006.d

Date: 14-NOV-2011 09:39

Client ID:

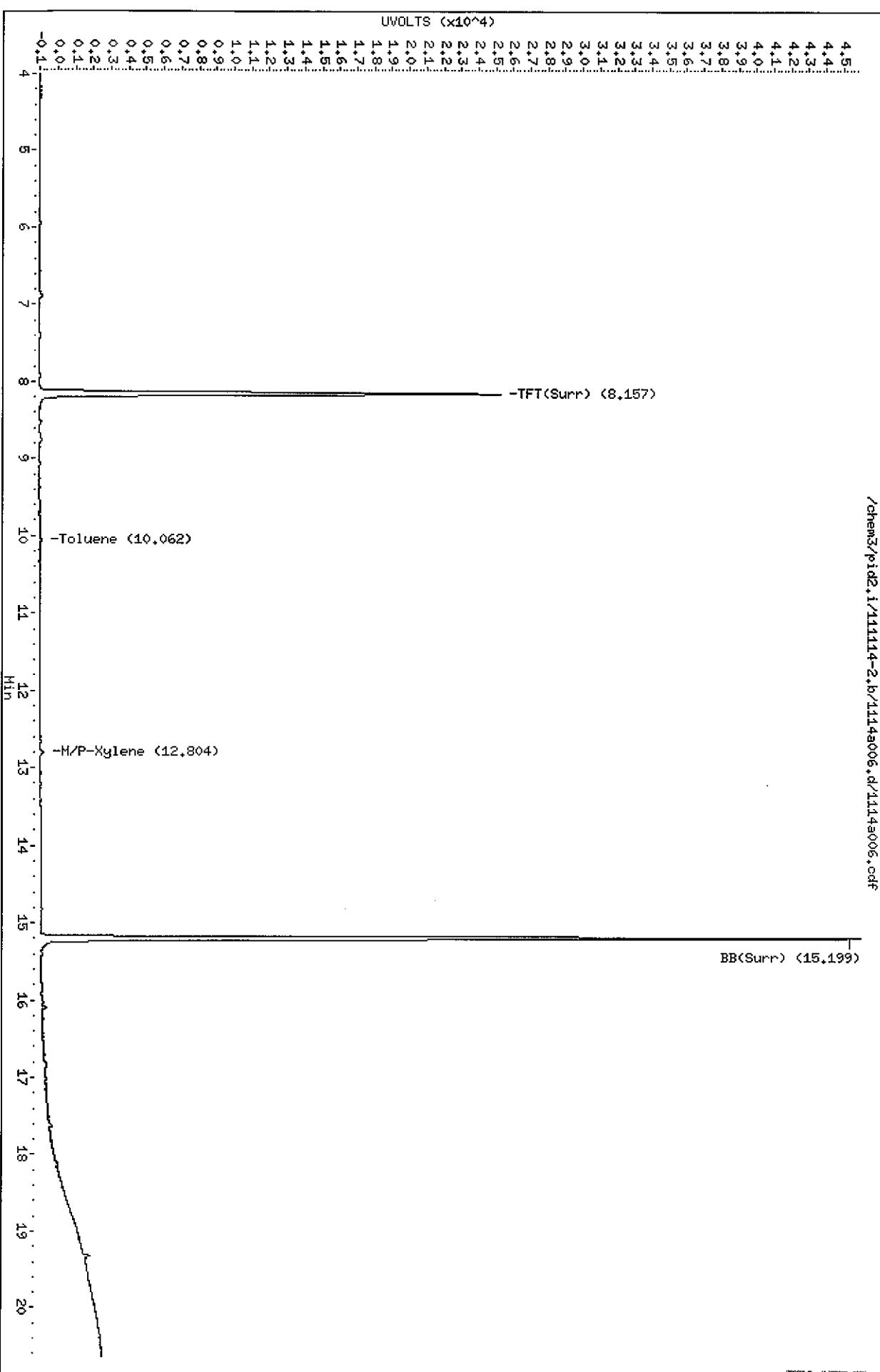
Sample Info: HB1114

Column phase: RTX 502-2 P111

Instrument: pid2.i

Operator: MH

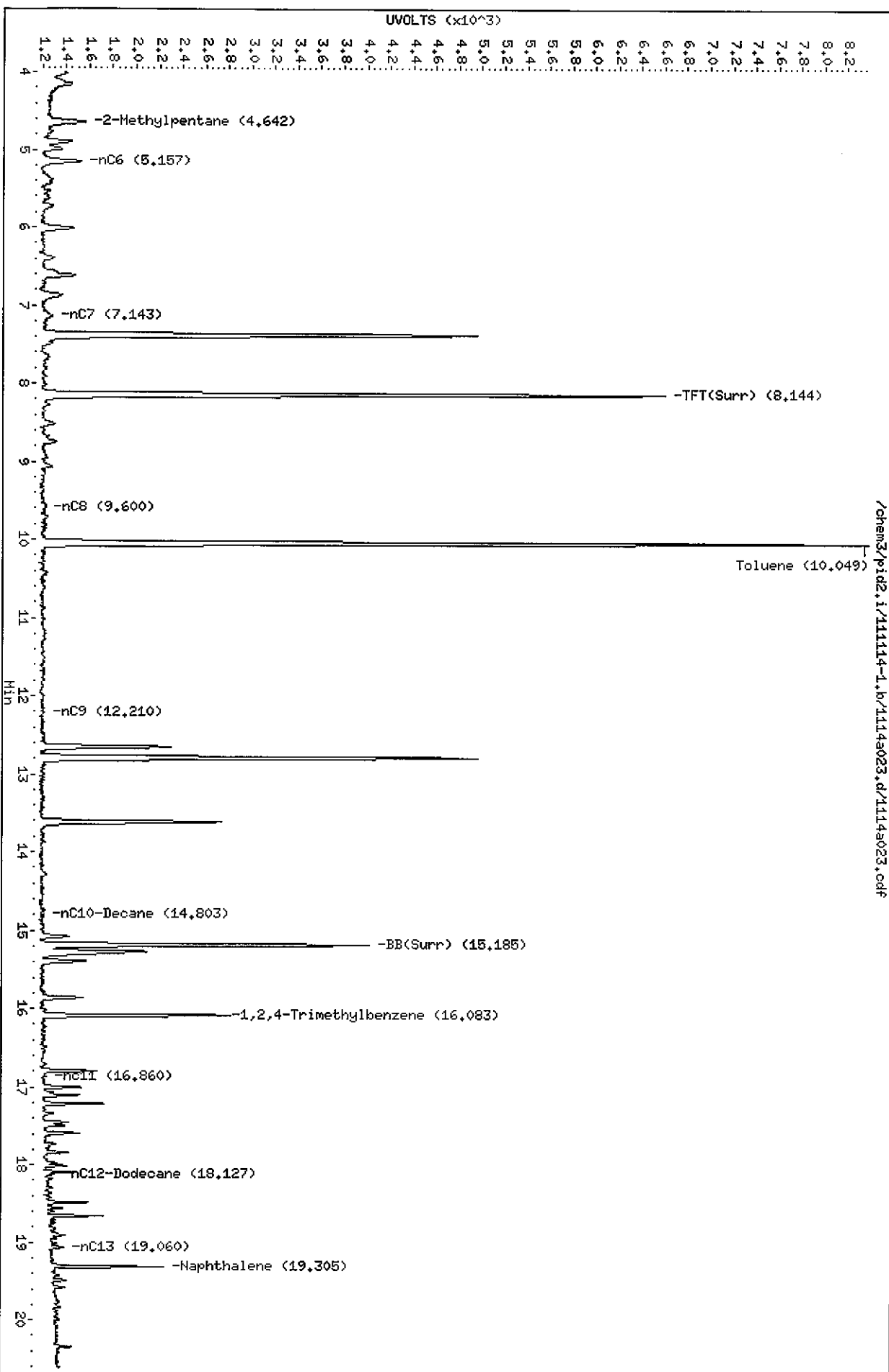
Column diameter: 0.18



Data File: /chem3/pid2.i/111114-1.b/11144023.d
Date: 14-NOV-2011 17:19
Client ID: KJ-359-2
Sample Info: TMS8A

Column phase: RTX 502-2 FID

Instrument: pid2.i
Operator: HH
Column diameter: 0.18



Data File: /chem3/pid2.i/111114-2.b/11144023.d

Date: 14-NOV-2011 17:19

Client ID: KJ-859-2

Sample Info: TW58A

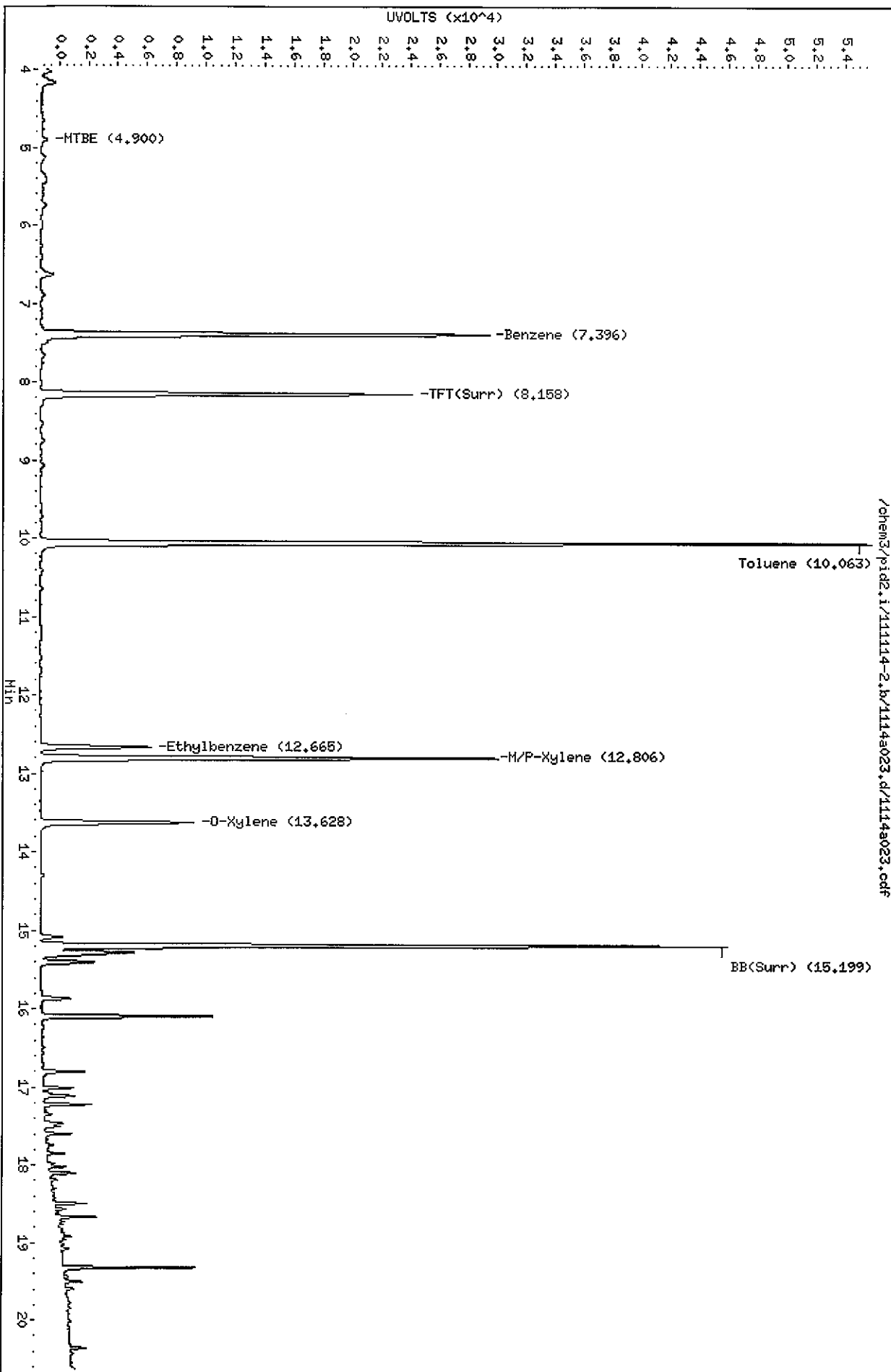
Column phase: RTX 502-2 PID

Instrument: pid2.i

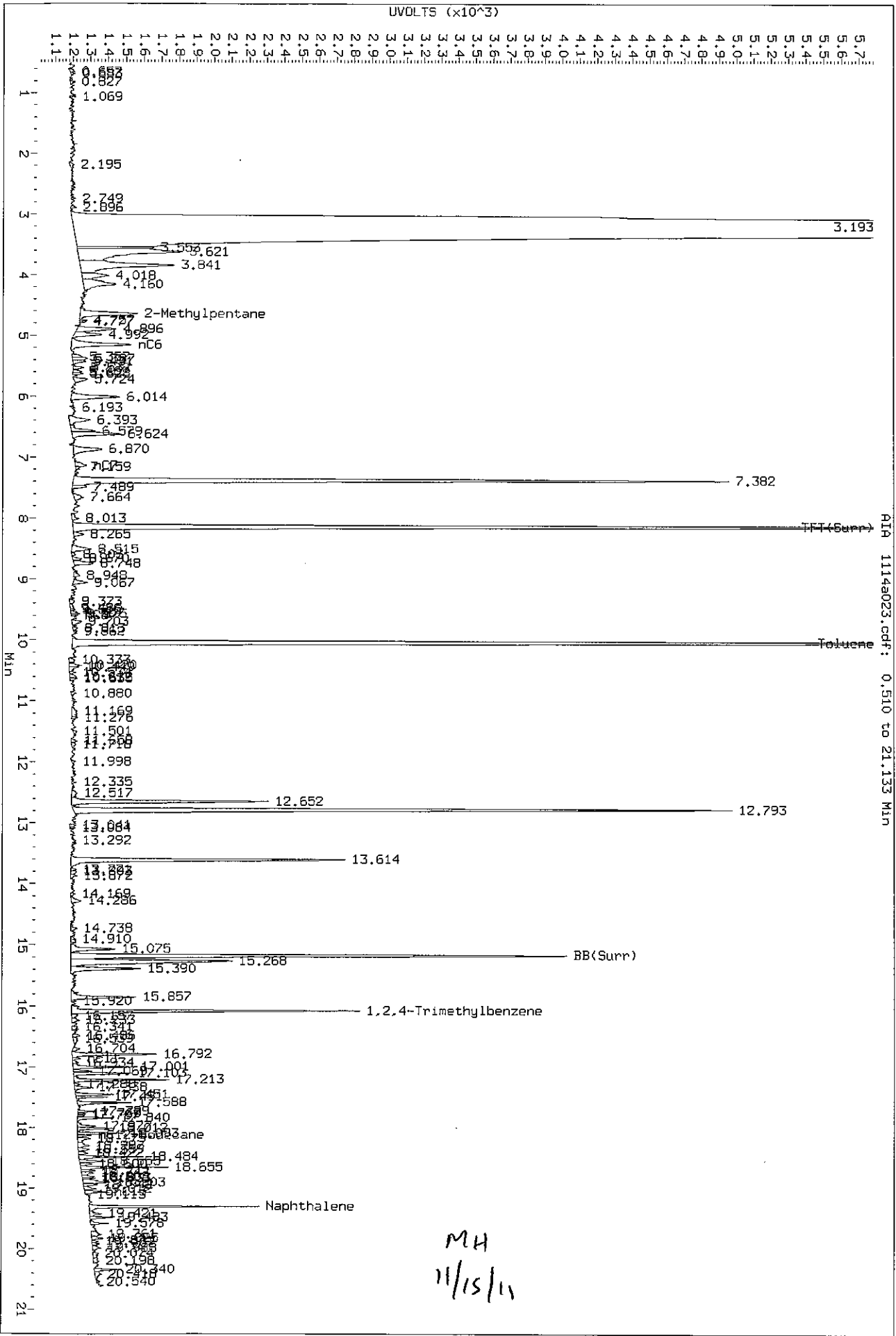
Operator: HH

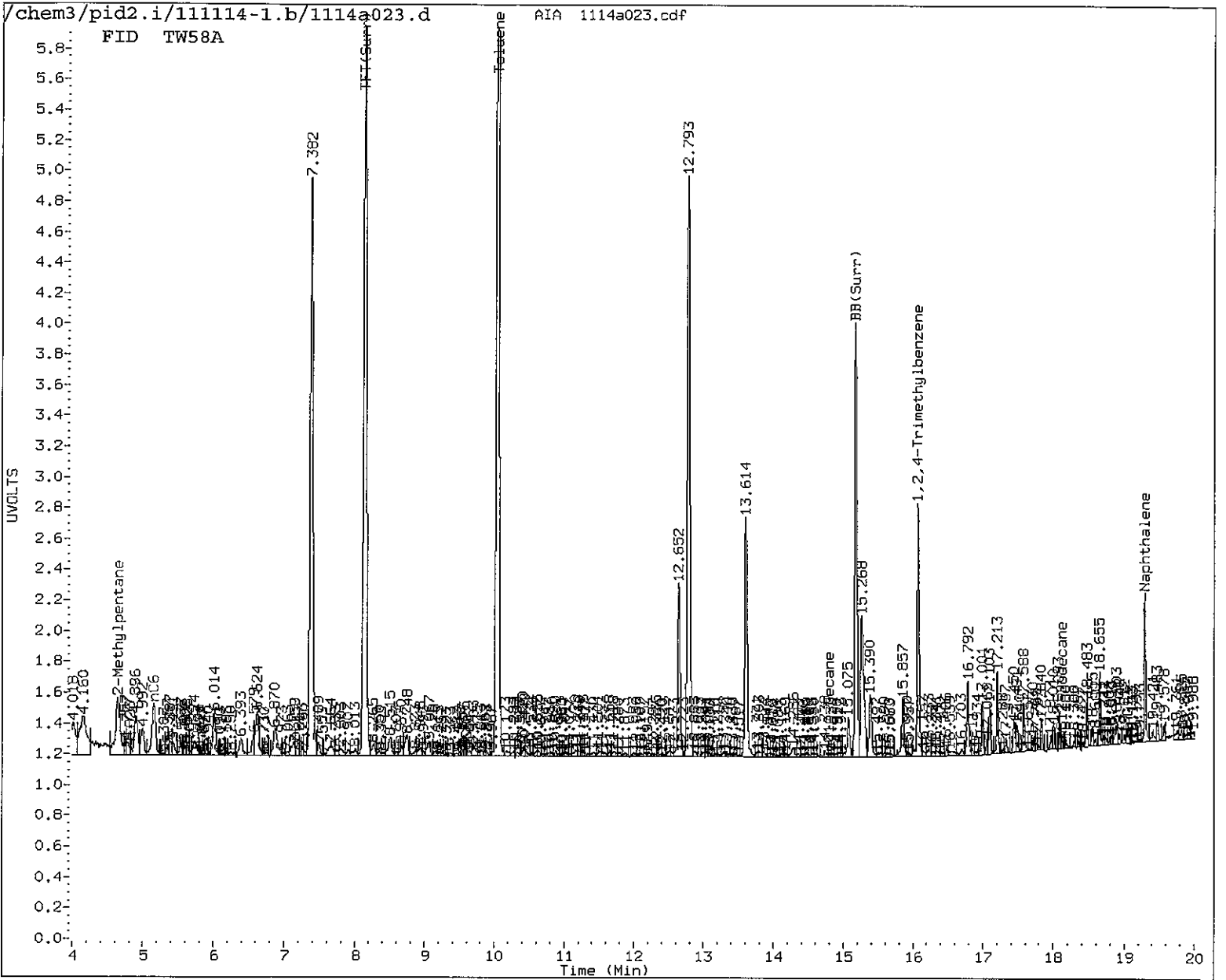
Column diameter: 0.18

Page 1



Data File: /chem3/pid2.1/111114-1.b/1114a023.d/1114a023.cdf
 Injection Date: 14-NOV-2011 17:19
 Instrument: pid2.1
 Client Sample ID: KJ-B59-2





MANUAL INTEGRATION

- Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: MH Date: 11/15/14

Data File: /chem3/pid2.i/111114-1.b/1114a026.d

Date: 14-NOV-2011 18:38

Client ID: KJ-859-9

Sample Info: TW58B

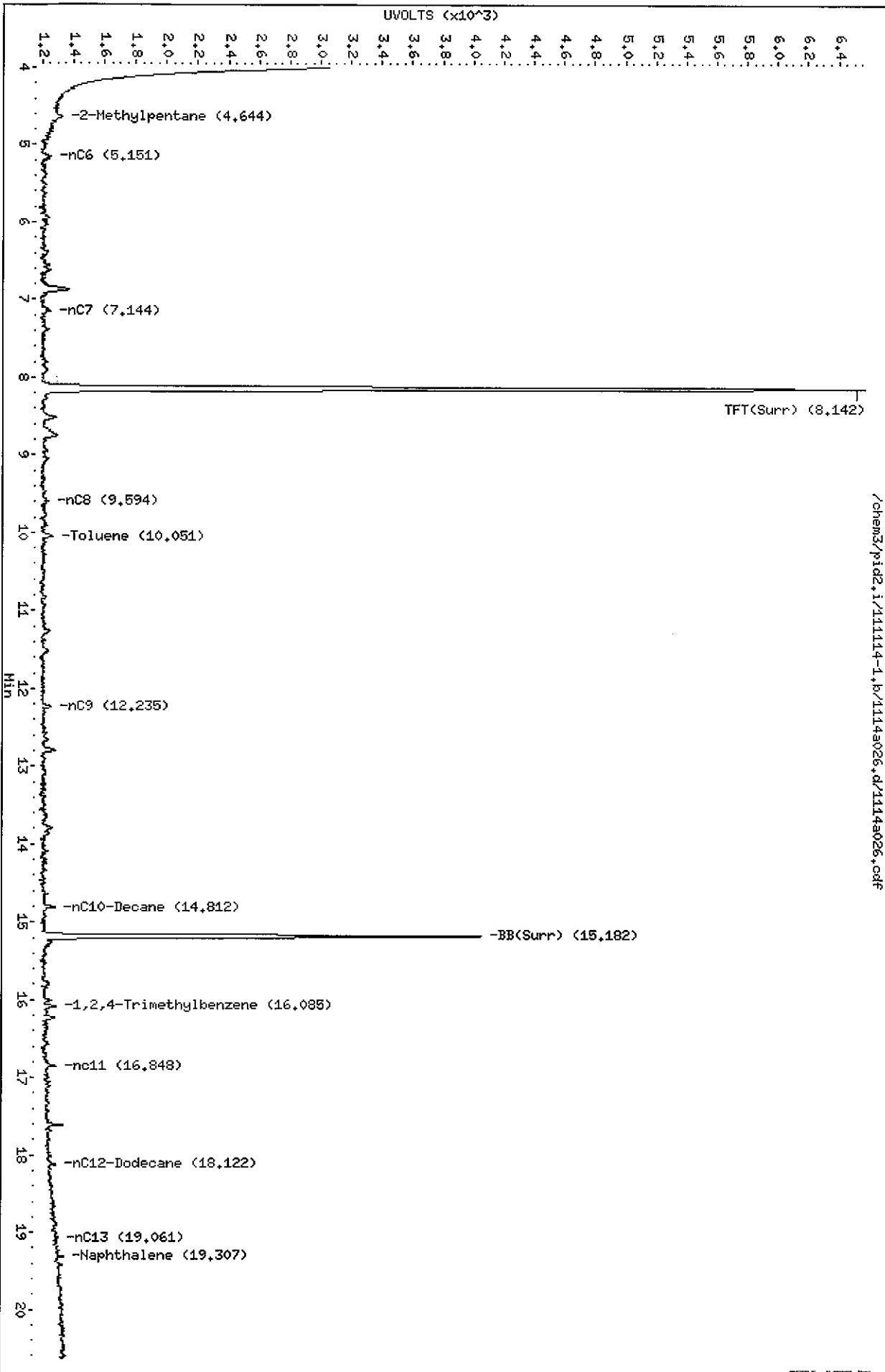
Column phase: RTX 502-2 FID

Instrument: pid2.i

Operator: HH

Column diameter: 0.18

/chem3/pid2.i/111114-1.b/1114a026.d/1114a026.cdf



Data File: /chem3/pid2,1/111114-2,b/11149026.d

Date: 14-NOV-2011 18:38

Client ID: KJ-859-9

Sample Info: TMS8B

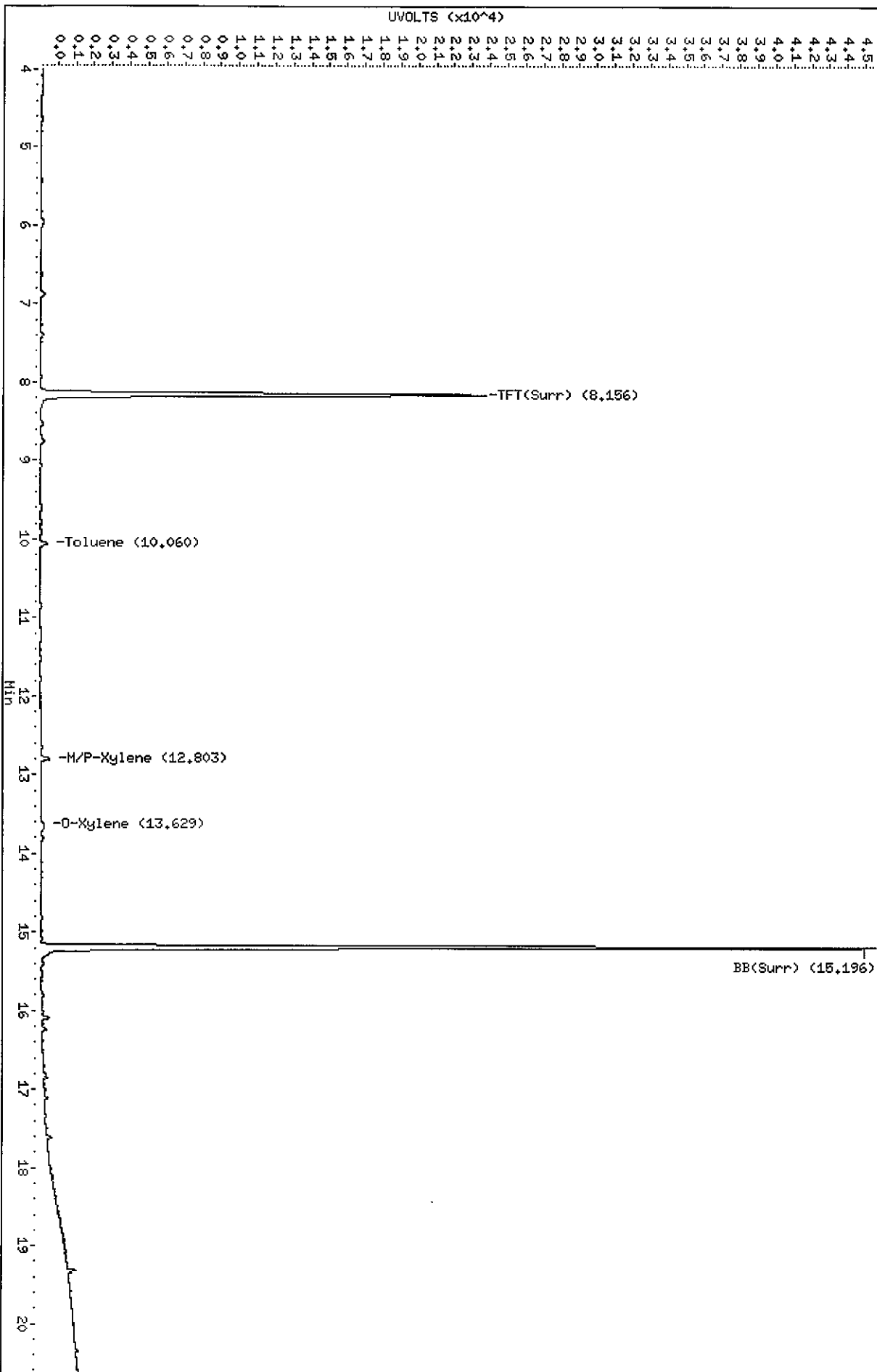
Column phase: RTX 502-2 PID

Instrument: pid2,1

Operator: NH

Column diameter: 0.18

/chem3/pid2,1/111114-2,b/11149026.d/11149026.cdf



111114-2

Data File: /chem3/pid2.i/111114-1.b/1114a027.d

Date: 14-NOV-2011 19:04

Client ID: KJ-860-14

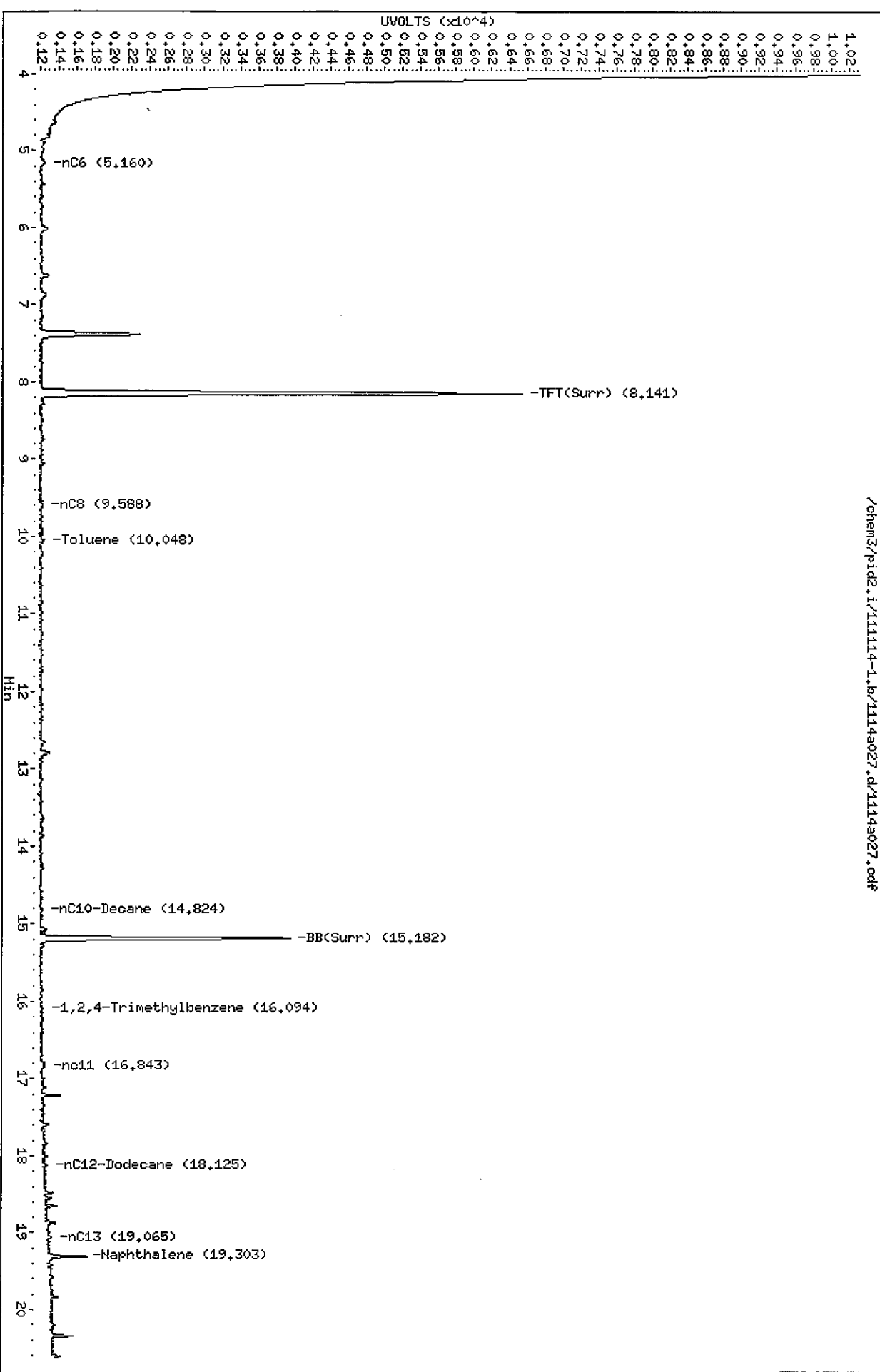
Sample Info: TMS8C

Column phase: RTX 502-2 FID

Instrument: pid2.i

Operator: HH

Column diameter: 0.18

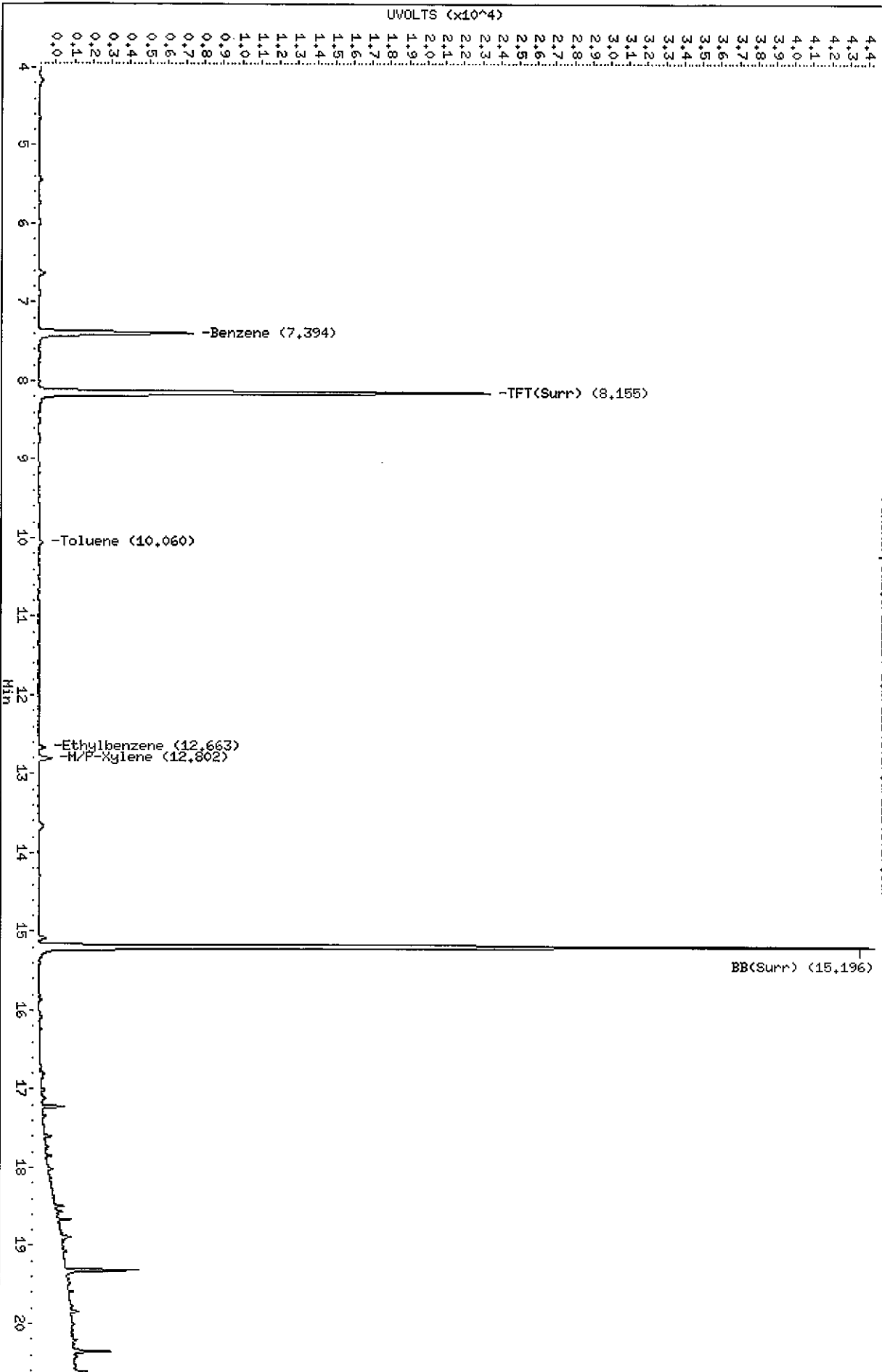


Data File: /chem3/pid2.i/111114-2.b/1114a027.d
Date: 14-NOV-2011 19:04
Client ID: KJ-B60-14
Sample Info: TMS8C

Column phase: RTX 502-2 PID

/chem3/pid2.i/111114-2.b/1114a027.d/1114a027.cdf

Instrument: pid2.i
Operator: NH
Column diameter: 0.18



Data File: /chem3/pid2.1/111114-1.b/11149028.d

Date: 14-NOV-2011 19:30

Client ID: KJ-B60-20

Sample Info: TMS8D

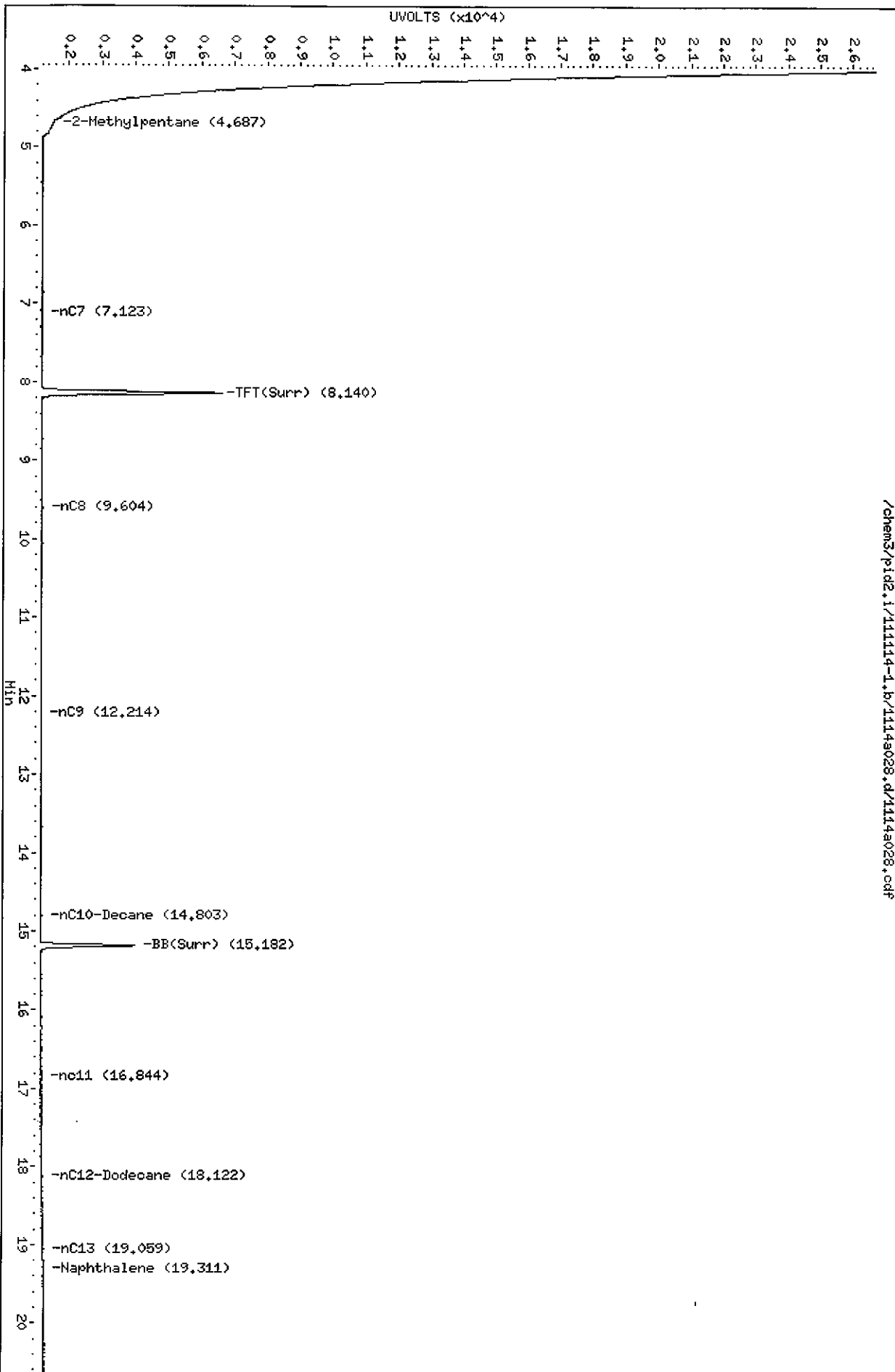
Column phase: RTX 502-2 FID

Instrument: pid2.1

Operator: HH

Column diameter: 0.18

/chem3/pid2.1/111114-1.b/11149028.d/11149028.cdf



Data File: /chem3/pid2.i/111114-2.b/11149028.d

Date: 14-NOV-2011 19:30

Client ID: KJ-B60-20

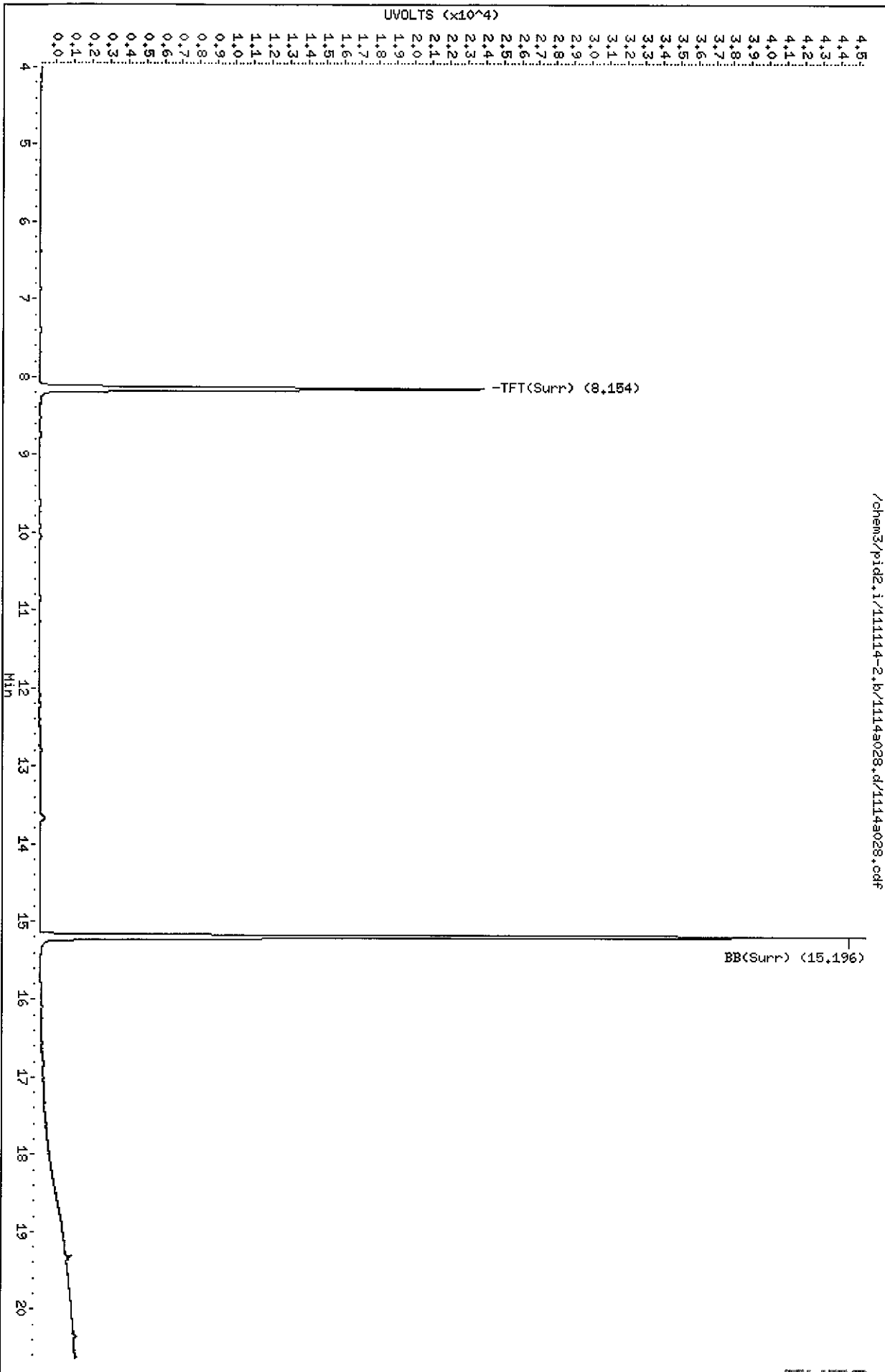
Sample Info: TMS8D

Column phase: RTX 502-2 PID

Instrument: pid2.i


Operator: NH

Column diameter: 0.18



ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod
TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: KJ-MW8-7
 SAMPLE

Lab Sample ID: TW59A
 LIMS ID: 11-26191
 Matrix: Soil
 Data Release Authorized: 
 Reported: 11/15/11

QC Report No: TW59-Kennedy Jenks Consultants
 Project: Ecology Cornet Bay
 Event: 1196012*00
 Date Sampled: 11/09/11
 Date Received: 11/11/11

Date Analyzed: 11/12/11 12:40
 Instrument/Analyst: PID1/MH

Purge Volume: 5.0 mL
 Sample Amount: 64 mg-dry-wt
 Percent Moisture: 19.4%

CAS Number	Analyte	RL	Result
71-43-2	Benzene	19	91
108-88-3	Toluene	19	< 19 U
100-41-4	Ethylbenzene	19	230
179601-23-1	m,p-Xylene	39	310
95-47-6	o-Xylene	19	< 19 U

Gasoline Range Hydrocarbons 7.8 21 GAS ID GRO

BETX Surrogate Recovery

Trifluorotoluene	84.1%
Bromobenzene	82.3%

Gasoline Surrogate Recovery

Trifluorotoluene	87.2%
Bromobenzene	86.6%

BETX values reported in µg/kg (ppb)
 Gasoline values reported in mg/kg (ppm)


GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod
TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: KJ-MW8-10
 SAMPLE

Lab Sample ID: TW59B
 LIMS ID: 11-26192
 Matrix: Soil
 Data Release Authorized: 
 Reported: 11/15/11

QC Report No: TW59-Kennedy Jenks Consultants
 Project: Ecology Cornet Bay
 Event: 1196012*00
 Date Sampled: 11/09/11
 Date Received: 11/11/11

Date Analyzed: 11/12/11 13:09
 Instrument/Analyst: PID1/MH

Purge Volume: 5.0 mL
 Sample Amount: 67 mg-dry-wt
 Percent Moisture: 23.4%

CAS Number	Analyte	RL	Result
71-43-2	Benzene	19	2,000
108-88-3	Toluene	19	< 19 U
100-41-4	Ethylbenzene	19	390
179601-23-1	m,p-Xylene	37	300
95-47-6	o-Xylene	19	24

Gasoline Range Hydrocarbons	7.5	20	GAS ID GRO
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BETX Surrogate Recovery

Trifluorotoluene	90.3%
Bromobenzene	89.1%

Gasoline Surrogate Recovery

Trifluorotoluene	92.3%
Bromobenzene	93.9%

BETX values reported in µg/kg (ppb)
 Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: KJ-MW9-5

SAMPLE

Lab Sample ID: TW59C

LIMS ID: 11-26193

Matrix: Soil

Data Release Authorized: *[Signature]*

Reported: 11/15/11

QC Report No: TW59-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Event: 1196012*00

Date Sampled: 11/09/11

Date Received: 11/11/11

Date Analyzed: 11/12/11 13:38

Instrument/Analyst: PID1/MH

Purge Volume: 5.0 mL

Sample Amount: 39 mg-dry-wt

Percent Moisture: 20.0%

CAS Number	Analyte	RL	Result	GAS ID
71-43-2	Benzene	32	< 32 U	
108-88-3	Toluene	32	< 32 U	
100-41-4	Ethylbenzene	32	< 32 U	
179601-23-1	m,p-Xylene	64	< 64 U	
95-47-6	o-Xylene	32	< 32 U	
	Gasoline Range Hydrocarbons	13	< 13 U	---

BETX Surrogate Recovery

Trifluorotoluene	87.6%
Bromobenzene	86.1%

Gasoline Surrogate Recovery

Trifluorotoluene	90.9%
Bromobenzene	91.9%

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: KJ-MW10-6

SAMPLE

Lab Sample ID: TW59D

LIMS ID: 11-26194

Matrix: Soil

Data Release Authorized: *AB*

Reported: 11/15/11

QC Report No: TW59-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Event: 1196012*00

Date Sampled: 11/09/11

Date Received: 11/11/11

Date Analyzed: 11/12/11 14:08

Instrument/Analyst: PID1/MH

Purge Volume: 5.0 mL

Sample Amount: 88 mg-dry-wt

Percent Moisture: 14.4%

CAS Number	Analyte	RL	Result
71-43-2	Benzene	14	48
108-88-3	Toluene	14	< 14 U
100-41-4	Ethylbenzene	14	< 14 U
179601-23-1	m,p-Xylene	28	54
95-47-6	o-Xylene	14	< 14 U

Gasoline Range Hydrocarbons	5.7	12	GAS ID GRO
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BETX Surrogate Recovery

Trifluorotoluene	86.7%
Bromobenzene	86.8%

Gasoline Surrogate Recovery

Trifluorotoluene	90.1%
Bromobenzene	92.3%

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: KJ-B45-7

SAMPLE

Lab Sample ID: TW59E

LIMS ID: 11-26195

Matrix: Soil

Data Release Authorized:

Reported: 11/15/11

QC Report No: TW59-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Event: 1196012*00

Date Sampled: 11/10/11

Date Received: 11/11/11

Date Analyzed: 11/12/11 14:37

Instrument/Analyst: PID1/MH

Purge Volume: 5.0 mL

Sample Amount: 72 mg-dry-wt

Percent Moisture: 19.2%

CAS Number	Analyte	RL	Result
71-43-2	Benzene	17	< 17 U
108-88-3	Toluene	17	< 17 U
100-41-4	Ethylbenzene	17	< 17 U
179601-23-1	m,p-Xylene	35	< 35 U
95-47-6	o-Xylene	17	< 17 U

Gasoline Range Hydrocarbons	6.9	< 6.9 U	GAS ID ---
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BETX Surrogate Recovery

Trifluorotoluene	86.2%
Bromobenzene	85.0%

Gasoline Surrogate Recovery

Trifluorotoluene	88.7%
Bromobenzene	90.7%

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.


GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ORGANICS ANALYSIS DATA SHEET
 BETX by Method SW8021BMod
 TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: KJ-B45-15
 SAMPLE

Lab Sample ID: TW59F
 LIMS ID: 11-26196
 Matrix: Soil
 Data Release Authorized: 
 Reported: 11/15/11

QC Report No: TW59-Kennedy Jenks Consultants
 Project: Ecology Cornet Bay
 Event: 1196012*00
 Date Sampled: 11/10/11
 Date Received: 11/11/11

Date Analyzed: 11/12/11 15:07
 Instrument/Analyst: PID1/MH

Purge Volume: 5.0 mL
 Sample Amount: 71 mg-dry-wt
 Percent Moisture: 18.8%

CAS Number	Analyte	RL	Result
71-43-2	Benzene	18	380
108-88-3	Toluene	18	< 18 U
100-41-4	Ethylbenzene	18	< 18 U
179601-23-1	m,p-Xylene	35	< 35 U
95-47-6	o-Xylene	18	< 18 U

Gasoline Range Hydrocarbons 7.1 < 7.1 U GAS ID ---

BETX Surrogate Recovery

Trifluorotoluene	87.0%
Bromobenzene	85.9%

Gasoline Surrogate Recovery

Trifluorotoluene	89.4%
Bromobenzene	91.7%

BETX values reported in µg/kg (ppb)
 Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.


GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ORGANICS ANALYSIS DATA SHEET
 BETX by Method SW8021BMod
 TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: KJ-B46-11
 SAMPLE

Lab Sample ID: TW59G
 LIMS ID: 11-26197
 Matrix: Soil
 Data Release Authorized: 
 Reported: 11/15/11

QC Report No: TW59-Kennedy Jenks Consultants
 Project: Ecology Cornet Bay
 Event: 1196012*00
 Date Sampled: 11/10/11
 Date Received: 11/11/11

Date Analyzed: 11/12/11 15:36
 Instrument/Analyst: PID1/MH

Purge Volume: 5.0 mL
 Sample Amount: 69 mg-dry-wt
 Percent Moisture: 18.2%

CAS Number	Analyte	RL	Result
71-43-2	Benzene	18	40
108-88-3	Toluene	18	< 18 U
100-41-4	Ethylbenzene	18	< 18 U
179601-23-1	m,p-Xylene	36	< 36 U
95-47-6	o-Xylene	18	< 18 U

	RL	Result	GAS ID
Gasoline Range Hydrocarbons	7.2	< 7.2 U	---

BETX Surrogate Recovery

Trifluorotoluene	83.7%
Bromobenzene	83.4%

Gasoline Surrogate Recovery

Trifluorotoluene	86.9%
Bromobenzene	90.1%

BETX values reported in µg/kg (ppb)
 Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ORGANICS ANALYSIS DATA SHEET
 BETX by Method SW8021BMod
 TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: KJ-B46-15
 SAMPLE

Lab Sample ID: TW59H
 LIMS ID: 11-26198
 Matrix: Soil
 Data Release Authorized: *[Signature]*
 Reported: 11/15/11

QC Report No: TW59-Kennedy Jenks Consultants
 Project: Ecology Cornet Bay
 Event: 1196012*00
 Date Sampled: 11/10/11
 Date Received: 11/11/11

Date Analyzed: 11/14/11 10:23
 Instrument/Analyst: PID2/MH

Purge Volume: 5.0 mL
 Sample Amount: 82 mg-dry-wt
 Percent Moisture: 18.5%

CAS Number	Analyte	RL	Result	
71-43-2	Benzene	15	< 15 U	
108-88-3	Toluene	15	< 15 U	
100-41-4	Ethylbenzene	15	< 15 U	
179601-23-1	m,p-Xylene	31	< 31 U	
95-47-6	o-Xylene	15	< 15 U	
	Gasoline Range Hydrocarbons	6.1	< 6.1 U	GAS ID ---

BETX Surrogate Recovery

Trifluorotoluene	118%
Bromobenzene	111%

Gasoline Surrogate Recovery

Trifluorotoluene	116%
Bromobenzene	109%

BETX values reported in µg/kg (ppb)
 Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.
 Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.
 Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021EMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: KJ-B47-13

SAMPLE

Lab Sample ID: TW59I

LIMS ID: 11-26199

Matrix: Soil

Data Release Authorized: *AB*

Reported: 11/15/11

QC Report No: TW59-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Event: 1196012*00

Date Sampled: 11/10/11

Date Received: 11/11/11

Date Analyzed: 11/14/11 10:49

Instrument/Analyst: PID2/MH

Purge Volume: 5.0 mL

Sample Amount: 60 mg-dry-wt

Percent Moisture: 27.7%

CAS Number	Analyte	RL	Result	GAS ID
71-43-2	Benzene	21	11,000	
108-88-3	Toluene	21	< 21 U	
100-41-4	Ethylbenzene	21	< 21 U	
179601-23-1	m,p-Xylene	42	< 42 U	
95-47-6	o-Xylene	21	< 21 U	
Gasoline Range Hydrocarbons		8.4	< 8.4 U	---

BETX Surrogate Recovery

Trifluorotoluene	120%
Bromobenzene	112%

Gasoline Surrogate Recovery

Trifluorotoluene	117%
Bromobenzene	111%

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ORGANICS ANALYSIS DATA SHEET
 BETX by Method SW8021BMod
 TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: KJ-B48-3
 SAMPLE

Lab Sample ID: TW59J
 LIMS ID: 11-26200
 Matrix: Soil
 Data Release Authorized: *[Signature]*
 Reported: 11/15/11

QC Report No: TW59-Kennedy Jenks Consultants
 Project: Ecology Cornet Bay
 Event: 1196012*00
 Date Sampled: 11/10/11
 Date Received: 11/11/11

Date Analyzed: 11/14/11 11:15
 Instrument/Analyst: PID2/MH

Purge Volume: 5.0 mL
 Sample Amount: 2.3 mg-dry-wt
 Percent Moisture: 14.3%

CAS Number	Analyte	RL	Result	
71-43-2	Benzene	540	1,200	
108-88-3	Toluene	540	2,200	
100-41-4	Ethylbenzene	540	13,000	
179601-23-1	m,p-Xylene	1,100	50,000	
95-47-6	o-Xylene	540	9,300	
	Gasoline Range Hydrocarbons	220	1,600	GAS ID GAS
BETX Surrogate Recovery				
	Trifluorotoluene	117%		
	Bromobenzene	110%		
Gasoline Surrogate Recovery				
	Trifluorotoluene	116%		
	Bromobenzene	110%		

BETX values reported in µg/kg (ppb)
 Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.


GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ORGANICS ANALYSIS DATA SHEET
 BETX by Method SW8021BMod
 TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: KJ-B49-13
 SAMPLE

Lab Sample ID: TW59K
 LIMS ID: 11-26201
 Matrix: Soil
 Data Release Authorized: 
 Reported: 11/15/11

QC Report No: TW59-Kennedy Jenks Consultants
 Project: Ecology Cornet Bay
 Event: 1196012*00
 Date Sampled: 11/10/11
 Date Received: 11/11/11

Date Analyzed: 11/14/11 11:41
 Instrument/Analyst: PID2/MH

Purge Volume: 5.0 mL
 Sample Amount: 68 mg-dry-wt
 Percent Moisture: 18.9%

CAS Number	Analyte	RL	Result	
71-43-2	Benzene	18	< 18 U	
108-88-3	Toluene	18	< 18 U	
100-41-4	Ethylbenzene	18	< 18 U	
179601-23-1	m,p-Xylene	37	< 37 U	
95-47-6	o-Xylene	18	< 18 U	
	Gasoline Range Hydrocarbons	7.4	< 7.4 U	GAS ID ---

BETX Surrogate Recovery

Trifluorotoluene	110%
Bromobenzene	106%

Gasoline Surrogate Recovery

Trifluorotoluene	110%
Bromobenzene	106%

BETX values reported in µg/kg (ppb)
 Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.
 Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.
 Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod
TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: KJ-B50-10
 SAMPLE

Lab Sample ID: TW59L
 LIMS ID: 11-26202
 Matrix: Soil
 Data Release Authorized: *AB*
 Reported: 11/15/11

QC Report No: TW59-Kennedy Jenks Consultants
 Project: Ecology Cornet Bay
 Event: 1196012*00
 Date Sampled: 11/10/11
 Date Received: 11/11/11

Date Analyzed: 11/14/11 12:07
 Instrument/Analyst: PID2/MH

Purge Volume: 5.0 mL
 Sample Amount: 86 mg-dry-wt
 Percent Moisture: 17.6%

CAS Number	Analyte	RL	Result	
71-43-2	Benzene	14	< 14 U	
108-88-3	Toluene	14	< 14 U	
100-41-4	Ethylbenzene	14	< 14 U	
179601-23-1	m,p-Xylene	29	< 29 U	
95-47-6	o-Xylene	14	< 14 U	
	Gasoline Range Hydrocarbons	5.8	< 5.8 U	GAS ID ---

BETX Surrogate Recovery

Trifluorotoluene	114%
Bromobenzene	110%

Gasoline Surrogate Recovery

Trifluorotoluene	113%
Bromobenzene	109%

BETX values reported in µg/kg (ppb)
 Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1



Sample ID: KJ-B51-7

SAMPLE

Lab Sample ID: TW59M

LIMS ID: 11-26203

Matrix: Soil

Data Release Authorized: *[Signature]*

Reported: 11/15/11

QC Report No: TW59-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Event: 1196012*00

Date Sampled: 11/10/11

Date Received: 11/11/11

Date Analyzed: 11/14/11 12:33

Instrument/Analyst: PID2/MH

Purge Volume: 5.0 mL

Sample Amount: 64 mg-dry-wt

Percent Moisture: 22.6%

CAS Number	Analyte	RL	Result
71-43-2	Benzene	20	< 20 U
108-88-3	Toluene	20	< 20 U
100-41-4	Ethylbenzene	20	< 20 U
179601-23-1	m,p-Xylene	39	< 39 U
95-47-6	o-Xylene	20	< 20 U

	RL	Result	GAS ID
Gasoline Range Hydrocarbons	7.8	< 7.8 U	---

BETX Surrogate Recovery

Trifluorotoluene	111%
Bromobenzene	109%

Gasoline Surrogate Recovery

Trifluorotoluene	110%
Bromobenzene	108%

BETX values reported in µg/kg (ppb)
 Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: KJ-B52-5

SAMPLE

Lab Sample ID: TW59N

LIMS ID: 11-26204

Matrix: Soil

Data Release Authorized: *AB*

Reported: 11/15/11

QC Report No: TW59-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Event: 1196012*00

Date Sampled: 11/10/11

Date Received: 11/11/11

Date Analyzed: 11/14/11 12:59

Instrument/Analyst: PID2/MH

Purge Volume: 5.0 mL

Sample Amount: 71 mg-dry-wt

Percent Moisture: 21.2%

CAS Number	Analyte	RL	Result
71-43-2	Benzene	18	1,400
108-88-3	Toluene	18	< 18 U
100-41-4	Ethylbenzene	18	560
179601-23-1	m,p-Xylene	35	140
95-47-6	o-Xylene	18	< 18 U

Gasoline Range Hydrocarbons	7.0	13	GAS ID GAS
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BETX Surrogate Recovery

Trifluorotoluene	113%
Bromobenzene	109%

Gasoline Surrogate Recovery

Trifluorotoluene	111%
Bromobenzene	107%

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.


Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021EMod
TPHG by Method NWTPHG
Page 1 of 1

Sample ID: KJ-B53-3
SAMPLE



Lab Sample ID: TW590
LIMS ID: 11-26205
Matrix: Soil
Data Release Authorized: 
Reported: 11/15/11

QC Report No: TW59-Kennedy Jenks Consultants
Project: Ecology Cornet Bay
Event: 1196012*00
Date Sampled: 11/10/11
Date Received: 11/11/11

Date Analyzed: 11/14/11 14:17
Instrument/Analyst: PID2/MH

Purge Volume: 5.0 mL
Sample Amount: 92 mg-dry-wt
Percent Moisture: 8.6%

CAS Number	Analyte	RL	Result
71-43-2	Benzene	14	32
108-88-3	Toluene	14	54
100-41-4	Ethylbenzene	14	< 14 U
179601-23-1	m,p-Xylene	27	60
95-47-6	o-Xylene	14	< 14 U

Gasoline Range Hydrocarbons 5.4 12 GAS ID GRO

BETX Surrogate Recovery

Trifluorotoluene 111%
Bromobenzene 105%

Gasoline Surrogate Recovery

Trifluorotoluene 108%
Bromobenzene 103%

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)


GAS: Indicates the presence of gasoline or weathered gasoline.
GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ORGANICS ANALYSIS DATA SHEET
 BETX by Method SW8021BMod
 TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: KJ-B54-6
 SAMPLE

Lab Sample ID: TW59P
 LIMS ID: 11-26206
 Matrix: Soil
 Data Release Authorized: 
 Reported: 11/15/11

QC Report No: TW59-Kennedy Jenks Consultants
 Project: Ecology Cornet Bay
 Event: 1196012*00
 Date Sampled: 11/10/11
 Date Received: 11/11/11

Date Analyzed: 11/14/11 14:43
 Instrument/Analyst: PID2/MH

Purge Volume: 5.0 mL
 Sample Amount: 72 mg-dry-wt
 Percent Moisture: 17.3%

CAS Number	Analyte	RL	Result	GAS ID
71-43-2	Benzene	17	< 17 U	
108-88-3	Toluene	17	< 17 U	
100-41-4	Ethylbenzene	17	< 17 U	
179601-23-1	m,p-Xylene	35	< 35 U	
95-47-6	o-Xylene	17	< 17 U	
	Gasoline Range Hydrocarbons	7.0	< 7.0 U	---

BETX Surrogate Recovery

Trifluorotoluene	112%
Bromobenzene	110%

Gasoline Surrogate Recovery

Trifluorotoluene	111%
Bromobenzene	109%

BETX values reported in µg/kg (ppb)
 Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.
 Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.
 Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: KJ-B55-3
SAMPLE

Lab Sample ID: TW59Q

LIMS ID: 11-26207

Matrix: Soil

Data Release Authorized: *B*

Reported: 11/15/11

QC Report No: TW59-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Event: 1196012*00

Date Sampled: 11/10/11

Date Received: 11/11/11

Date Analyzed: 11/14/11 15:09

Instrument/Analyst: PID2/MH

Purge Volume: 5.0 mL

Sample Amount: 82 mg-dry-wt

Percent Moisture: 13.6%

CAS Number	Analyte	RL	Result	
71-43-2	Benzene	15	< 15 U	
108-88-3	Toluene	15	320	
100-41-4	Ethylbenzene	15	320	
179601-23-1	m,p-Xylene	30	220	
95-47-6	o-Xylene	15	130	
Gasoline Range Hydrocarbons		6.1	400	GAS ID GAS/GRO
BETX Surrogate Recovery				
	Trifluorotoluene	113%		
	Bromobenzene	118%		
Gasoline Surrogate Recovery				
	Trifluorotoluene	113%		
	Bromobenzene	83.6%		

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.


GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ORGANICS ANALYSIS DATA SHEET
 BETX by Method SW8021BMod
 TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: KJ-B56-3
 SAMPLE

Lab Sample ID: TW59R
 LIMS ID: 11-26208
 Matrix: Soil
 Data Release Authorized: 
 Reported: 11/15/11

QC Report No: TW59-Kennedy Jenks Consultants
 Project: Ecology Cornet Bay
 Event: 1196012*00
 Date Sampled: 11/11/11
 Date Received: 11/11/11

Date Analyzed: 11/15/11 08:53
 Instrument/Analyst: PID1/MH

Purge Volume: 5.0 mL
 Sample Amount: 86 mg-dry-wt
 Percent Moisture: 14.2%

CAS Number	Analyte	RL	Result	
71-43-2	Benzene	14	< 14 U	
108-88-3	Toluene	14	< 14 U	
100-41-4	Ethylbenzene	14	< 14 U	
179601-23-1	m,p-Xylene	29	< 29 U	
95-47-6	o-Xylene	14	< 14 U	
	Gasoline Range Hydrocarbons	5.8	< 5.8 U	GAS ID ---

BETX Surrogate Recovery

Trifluorotoluene	102%
Bromobenzene	99.9%

Gasoline Surrogate Recovery

Trifluorotoluene	97.4%
Bromobenzene	95.9%

BETX values reported in µg/kg (ppb)
 Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: KJ-B57-5

SAMPLE



Lab Sample ID: TW59S

LIMS ID: 11-26209

Matrix: Soil

Data Release Authorized: *AB*

Reported: 11/15/11

QC Report No: TW59-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Event: 1196012*00

Date Sampled: 11/11/11

Date Received: 11/11/11

Date Analyzed: 11/14/11 16:01

Instrument/Analyst: PID2/MH

Purge Volume: 5.0 mL

Sample Amount: 77 mg-dry-wt

Percent Moisture: 17.6%

CAS Number	Analyte	RL	Result
71-43-2	Benzene	16	< 16 U
108-88-3	Toluene	16	< 16 U
100-41-4	Ethylbenzene	16	< 16 U
179601-23-1	m,p-Xylene	33	< 33 U
95-47-6	o-Xylene	16	< 16 U

Gasoline Range Hydrocarbons	6.5	< 6.5 U	GAS ID ---
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BETX Surrogate Recovery

Trifluorotoluene	113%
Bromobenzene	111%

Gasoline Surrogate Recovery

Trifluorotoluene	111%
Bromobenzene	111%

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.



Lab Sample ID: TW59T
 LIMS ID: 11-26210
 Matrix: Soil
 Data Release Authorized: *[Signature]*
 Reported: 11/15/11

QC Report No: TW59-Kennedy Jenks Consultants
 Project: Ecology Cornet Bay
 Event: 1196012*00
 Date Sampled: 11/11/11
 Date Received: 11/11/11

Date Analyzed: 11/14/11 16:27
 Instrument/Analyst: PID2/MH

Purge Volume: 5.0 mL
 Sample Amount: 85 mg-dry-wt
 Percent Moisture: 12.5%

CAS Number	Analyte	RL	Result	GAS ID
71-43-2	Benzene	15	61	
108-88-3	Toluene	15	15	
100-41-4	Ethylbenzene	15	< 15 U	
179601-23-1	m,p-Xylene	29	47	
95-47-6	o-Xylene	15	< 15 U	
Gasoline Range Hydrocarbons		5.8	< 5.8 U	---

BETX Surrogate Recovery

Trifluorotoluene	109%
Bromobenzene	108%

Gasoline Surrogate Recovery

Trifluorotoluene	108%
Bromobenzene	107%

BETX values reported in µg/kg (ppb)
 Gasoline values reported in mg/kg (ppm)


GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ORGANICS ANALYSIS DATA SHEET
 BETX by Method SW8021BMod
 TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: MB-111211
 METHOD BLANK

Lab Sample ID: MB-111211
 LIMS ID: 11-26191
 Matrix: Soil
 Data Release Authorized: 
 Reported: 11/15/11

QC Report No: TW59-Kennedy Jenks-Consultants
 Project: Ecology Cornet Bay
 Event: 1196012*00
 Date Sampled: NA
 Date Received: NA

Date Analyzed: 11/12/11 12:11
 Instrument/Analyst: PID1/MH

Purge Volume: 5.0 mL
 Sample Amount: 100 mg-dry-wt

CAS Number	Analyte	RL	Result
71-43-2	Benzene	12	< 12 U
108-88-3	Toluene	12	< 12 U
100-41-4	Ethylbenzene	12	< 12 U
179601-23-1	m,p-Xylene	25	< 25 U
95-47-6	o-Xylene	12	< 12 U

Gasoline Range Hydrocarbons	5.0	< 5.0 U	GAS ID ---
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BETX Surrogate Recovery

Trifluorotoluene	86.3%
Bromobenzene	84.7%

Gasoline Surrogate Recovery

Trifluorotoluene	90.2%
Bromobenzene	90.4%

BETX values reported in µg/kg (ppb)
 Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021EMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: MB-111411

METHOD BLANK

Lab Sample ID: MB-111411

LIMS ID: 11-26198

Matrix: Soil

Data Release Authorized: *[Signature]*

Reported: 11/15/11

QC Report No: TW59-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Event: 1196012*00

Date Sampled: NA

Date Received: NA

Date Analyzed: 11/14/11 09:39

Instrument/Analyst: PID2/MH

Purge Volume: 5.0 mL

Sample Amount: 100 mg-dry-wt

CAS Number	Analyte	RL	Result
71-43-2	Benzene	12	< 12 U
108-88-3	Toluene	12	< 12 U
100-41-4	Ethylbenzene	12	< 12 U
179601-23-1	m,p-Xylene	25	< 25 U
95-47-6	o-Xylene	12	< 12 U

Gasoline Range Hydrocarbons	5.0	< 5.0 U	GAS ID ---
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BETX Surrogate Recovery

Trifluorotoluene	110%
Bromobenzene	105%

Gasoline Surrogate Recovery

Trifluorotoluene	108%
Bromobenzene	105%

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: MB-111511

METHOD BLANK

Lab Sample ID: MB-111511

LIMS ID: 11-26208

Matrix: Soil

Data Release Authorized: *[Signature]*

Reported: 11/15/11

QC Report No: TW59-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Event: 1196012*00

Date Sampled: NA

Date Received: NA

Date Analyzed: 11/15/11 07:58

Instrument/Analyst: PID1/MH

Purge Volume: 5.0 mL

Sample Amount: 100 mg-dry-wt

CAS Number	Analyte	RL	Result	GAS ID
71-43-2	Benzene	12	< 12 U	
108-88-3	Toluene	12	< 12 U	
100-41-4	Ethylbenzene	12	< 12 U	
179601-23-1	m,p-Xylene	25	< 25 U	
95-47-6	o-Xylene	12	< 12 U	
	Gasoline Range Hydrocarbons	5.0	< 5.0 U	---

BETX Surrogate Recovery

Trifluorotoluene	96.3%
Bromobenzene	98.7%

Gasoline Surrogate Recovery

Trifluorotoluene	94.6%
Bromobenzene	96.8%

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET

TPHG by Method NWTPHG

Page 1 of 1


Sample ID: LCS-111211

LAB CONTROL SAMPLE

Lab Sample ID: LCS-111211

LIMS ID: 11-26191

Matrix: Soil

Data Release Authorized: 

Reported: 11/15/11

QC Report No: TW59-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Event: 1196012*00

Date Sampled: NA

Date Received: NA

Date Analyzed LCS: 11/12/11 11:12

LCSD: 11/12/11 11:42

Instrument/Analyst LCS: PID1/MH

LCSD: PID1/MH

Purge Volume: 5.0 mL

Sample Amount LCS: 100 mg-dry-wt

LCSD: 100 mg-dry-wt

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Gasoline Range Hydrocarbons	47.4	50.0	94.8%	45.8	50.0	91.6%	3.4%

Reported in mg/kg (ppm)

RPD calculated using sample concentrations per SW846.

TPHG Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	94.0%	93.5%
Bromobenzene	92.6%	91.2%

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod
 Page 1 of 1

Sample ID: LCS-111211
 LAB CONTROL SAMPLE

Lab Sample ID: LCS-111211
 LIMS ID: 11-26191
 Matrix: Soil
 Data Release Authorized: *AS*
 Reported: 11/15/11

QC Report No: TW59-Kennedy Jenks Consultants
 Project: Ecology Cornet Bay
 Event: 1196012*00
 Date Sampled: NA
 Date Received: NA

Date Analyzed LCS: 11/12/11 11:12
 LCSD: 11/12/11 11:42
 Instrument/Analyst LCS: PID1/MH
 LCSD: PID1/MH

Purge Volume: 5.0 mL
 Sample Amount LCS: 100 mg-dry-wt
 LCSD: 100 mg-dry-wt

Analyte	LCS			LCSD			RPD
	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	
Benzene	150	185	81.1%	150	185	81.1%	0.0%
Toluene	1580	1820	86.8%	1570	1820	86.3%	0.6%
Ethylbenzene	453	535	84.7%	450	535	84.1%	0.7%
m,p-Xylene	1650	2000	82.5%	1650	2000	82.5%	0.0%
o-Xylene	764	905	84.4%	762	905	84.2%	0.3%

Reported in µg/kg (ppb)

RPD calculated using sample concentrations per SW846.

BETX Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	90.0%	89.2%
Bromobenzene	85.8%	85.2%

ORGANICS ANALYSIS DATA SHEET

TPHG by Method NWTPHG

Page 1 of 1


Sample ID: LCS-111411

LAB CONTROL SAMPLE

Lab Sample ID: LCS-111411

LIMS ID: 11-26198

Matrix: Soil

Data Release Authorized: 

Reported: 11/15/11

QC Report No: TW59-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Event: 1196012*00

Date Sampled: NA

Date Received: NA

Date Analyzed LCS: 11/14/11 08:47

LCS D: 11/14/11 09:12

Instrument/Analyst LCS: PID2/MH

LCS D: PID2/MH

Purge Volume: 5.0 mL

Sample Amount LCS: 100 mg-dry-wt

LCS D: 100 mg-dry-wt

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCS D	Spike Added-LCS D	LCS D Recovery	RPD
Gasoline Range Hydrocarbons	56.4	50.0	113%	52.6	50.0	105%	7.0%

Reported in mg/kg (ppm)

RPD calculated using sample concentrations per SW846.

TPHG Surrogate Recovery

	LCS	LCS D
Trifluorotoluene	101%	107%
Bromobenzene	98.4%	101%

Sample ID: LCS-111411
 LAB CONTROL SAMPLE

Lab Sample ID: LCS-111411
 LIMS ID: 11-26198
 Matrix: Soil
 Data Release Authorized: *[Signature]*
 Reported: 11/15/11

QC Report No: TW59-Kennedy Jenks Consultants
 Project: Ecology Cornet Bay
 Event: 1196012*00
 Date Sampled: NA
 Date Received: NA

Date Analyzed LCS: 11/14/11 08:47
 LCSD: 11/14/11 09:12
 Instrument/Analyst LCS: PID2/MH
 LCSD: PID2/MH

Purge Volume: 5.0 mL

Sample Amount LCS: 100 mg-dry-wt
 LCSD: 100 mg-dry-wt

Analyte	LCS			LCSD			RPD
	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	
Benzene	178	185	96.2%	174	185	94.1%	2.3%
Toluene	2060	1820	113%	2040	1820	112%	1.0%
Ethylbenzene	609	535	114%	600	535	112%	1.5%
m,p-Xylene	2390	2000	120%	2370	2000	118%	0.8%
o-Xylene	1050	905	116%	1040	905	115%	1.0%

Reported in µg/kg (ppb)


RPD calculated using sample concentrations per SW846.

BETX Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	102%	107%
Bromobenzene	98.3%	101%

ORGANICS ANALYSIS DATA SHEET
TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: LCS-111511
LAB CONTROL SAMPLE

Lab Sample ID: LCS-111511
 LIMS ID: 11-26208
 Matrix: Soil
 Data Release Authorized: 
 Reported: 11/15/11

QC Report No: TW59-Kennedy Jenks Consultants
 Project: Ecology Cornet Bay
 Event: 1196012*00
 Date Sampled: NA
 Date Received: NA

Date Analyzed LCS: 11/15/11 06:59
 LCSD: 11/15/11 07:28
 Instrument/Analyst LCS: PID1/MH
 LCSD: PID1/MH

Purge Volume: 5.0 mL
 Sample Amount LCS: 100 mg-dry-wt
 LCSD: 100 mg-dry-wt

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Gasoline Range Hydrocarbons	50.8	50.0	102%	47.8	50.0	95.6%	6.1%

Reported in mg/kg (ppm)

RPD calculated using sample concentrations per SW846.

TPHG Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	98.4%	98.3%
Bromobenzene	95.2%	97.6%

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021EMod
 Page 1 of 1

Sample ID: LCS-111511
 LAB CONTROL SAMPLE

Lab Sample ID: LCS-111511
 LIMS ID: 11-26208
 Matrix: Soil
 Data Release Authorized: *BB*
 Reported: 11/15/11

QC Report No: TW59-Kennedy Jenks Consultants
 Project: Ecology Cornet Bay
 Event: 1196012*00
 Date Sampled: NA
 Date Received: NA

Date Analyzed LCS: 11/15/11 06:59
 LCSD: 11/15/11 07:28
 Instrument/Analyst LCS: PID1/MH
 LCSD: PID1/MH

Purge Volume: 5.0 mL
 Sample Amount LCS: 100 mg-dry-wt
 LCSD: 100 mg-dry-wt

Analyte	LCS			LCSD			RPD
	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	
Benzene	179	185	96.8%	178	185	96.2%	0.6%
Toluene	1940	1820	107%	1900	1820	104%	2.1%
Ethylbenzene	548	535	102%	534	535	99.8%	2.6%
m,p-Xylene	1990	2000	99.5%	1960	2000	98.0%	1.5%
o-Xylene	951	905	105%	930	905	103%	2.2%

Reported in µg/kg (ppb)

RPD calculated using sample concentrations per SW846.

BETX Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	98.5%	99.3%
Bromobenzene	97.1%	99.4%

BETX SOIL SURROGATE RECOVERY SUMMARY

ARI Job: TW59
Matrix: Soil

QC Report No: TW59-Kennedy Jenks Consultants
Project: Ecology Cornet Bay
Event: 1196012*00

<u>Client ID</u>	<u>TFT</u>	<u>BBZ</u>	<u>TOT OUT</u>
MB-111211	86.3%	84.7%	0
LCS-111211	90.0%	85.8%	0
LCSD-111211	89.2%	85.2%	0
KJ-MW8-7	84.1%	82.3%	0
KJ-MW8-10	90.3%	89.1%	0
KJ-MW9-5	87.6%	86.1%	0
KJ-MW10-6	86.7%	86.8%	0
KJ-B45-7	86.2%	85.0%	0
KJ-B45-15	87.0%	85.9%	0
KJ-B46-11	83.7%	83.4%	0
MB-111411	110%	105%	0
LCS-111411	102%	98.3%	0
LCSD-111411	107%	101%	0
KJ-B46-15	118%	111%	0
KJ-B47-13	120%	112%	0
KJ-B48-3	117%	110%	0
KJ-B49-13	110%	106%	0
KJ-B50-10	114%	110%	0
KJ-B51-7	111%	109%	0
KJ-B52-5	113%	109%	0
KJ-B53-3	111%	105%	0
KJ-B54-6	112%	110%	0
KJ-B55-3	113%	118%	0
MB-111511	96.3%	98.7%	0
LCS-111511	98.5%	97.1%	0
LCSD-111511	99.3%	99.4%	0
KJ-B56-3	102%	99.9%	0
KJ-B57-5	113%	111%	0
KJ-B58-3	109%	108%	0

	LCS/MB LIMITS	QC LIMITS
(TFT) = Trifluorotoluene	(80-120)	(68-124)
(BBZ) = Bromobenzene	(77-120)	(62-134)

Log Number Range: 11-26191 to 11-26210

TPHG SOIL SURROGATE RECOVERY SUMMARY

ARI Job: TW59
Matrix: Soil

QC Report No: TW59-Kennedy Jenks Consultants
Project: Ecology Cornet Bay
Event: 1196012*00

<u>Client ID</u>	<u>BFB</u>	<u>TFT</u>	<u>BBZ</u>	<u>TOT</u>	<u>OUT</u>
MB-111211	NA	90.2%	90.4%	0	0
LCS-111211	NA	94.0%	92.6%	0	0
LCSD-111211	NA	93.5%	91.2%	0	0
KJ-MW8-7	NA	87.2%	86.6%	0	0
KJ-MW8-10	NA	92.3%	93.9%	0	0
KJ-MW9-5	NA	90.9%	91.9%	0	0
KJ-MW10-6	NA	90.1%	92.3%	0	0
KJ-B45-7	NA	88.7%	90.7%	0	0
KJ-B45-15	NA	89.4%	91.7%	0	0
KJ-B46-11	NA	86.9%	90.1%	0	0
MB-111411	NA	108%	105%	0	0
LCS-111411	NA	101%	98.4%	0	0
LCSD-111411	NA	107%	101%	0	0
KJ-B46-15	NA	116%	109%	0	0
KJ-B47-13	NA	117%	111%	0	0
KJ-B48-3	NA	116%	110%	0	0
KJ-B49-13	NA	110%	106%	0	0
KJ-B50-10	NA	113%	109%	0	0
KJ-B51-7	NA	110%	108%	0	0
KJ-B52-5	NA	111%	107%	0	0
KJ-B53-3	NA	108%	103%	0	0
KJ-B54-6	NA	111%	109%	0	0
KJ-B55-3	NA	113%	83.6%	0	0
MB-111511	NA	94.6%	96.8%	0	0
LCS-111511	NA	98.4%	95.2%	0	0
LCSD-111511	NA	98.3%	97.6%	0	0
KJ-B56-3	NA	97.4%	95.9%	0	0
KJ-B57-5	NA	111%	111%	0	0
KJ-B58-3	NA	108%	107%	0	0

	LCS/MB LIMITS	QC LIMITS
(BFB) = Bromofluorobenzene	(70-130)	(70-130)
(TFT) = Trifluorotoluene	(80-120)	(66-123)
(BBZ) = Bromobenzene	(80-120)	(62-130)

Log Number Range: 11-26191 to 11-26210

Data File: /chem3/pid1.i/vpcc1112-1.b/1112s004.d

Date: 12-NOV-2011 11:12

Client ID:

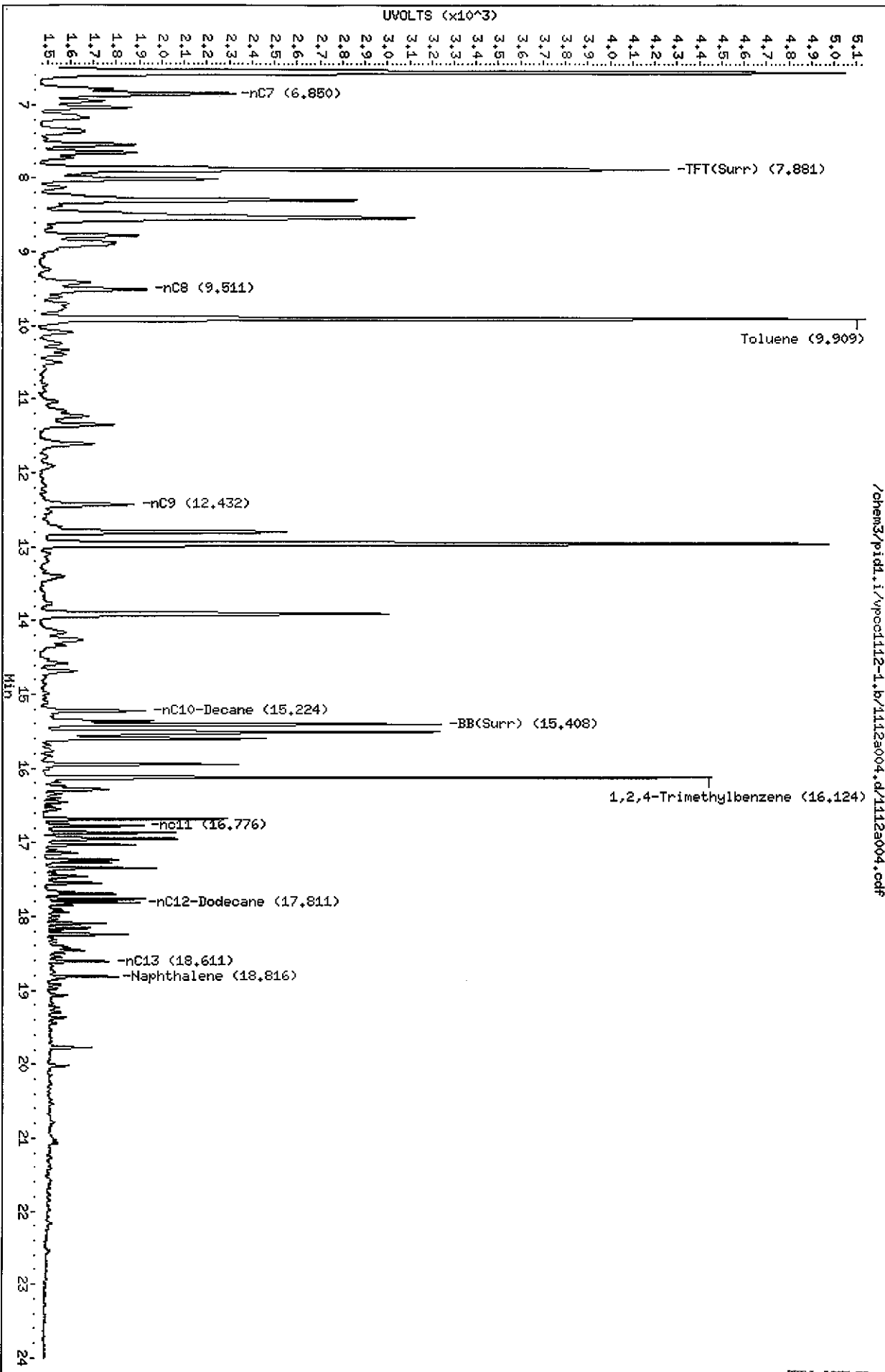
Sample Info: LCS1112

Column phase: RTX 502-2 FID

Instrument: pid1.i

Operator: PC

Column diameter: 0.18



TW50: 00154

Data File: /chem3/pid1.i/vpoc1112-2.b/1112a004.d

Date: 12-NOV-2011 14:12

Client ID:

Sample Info: LCS1112

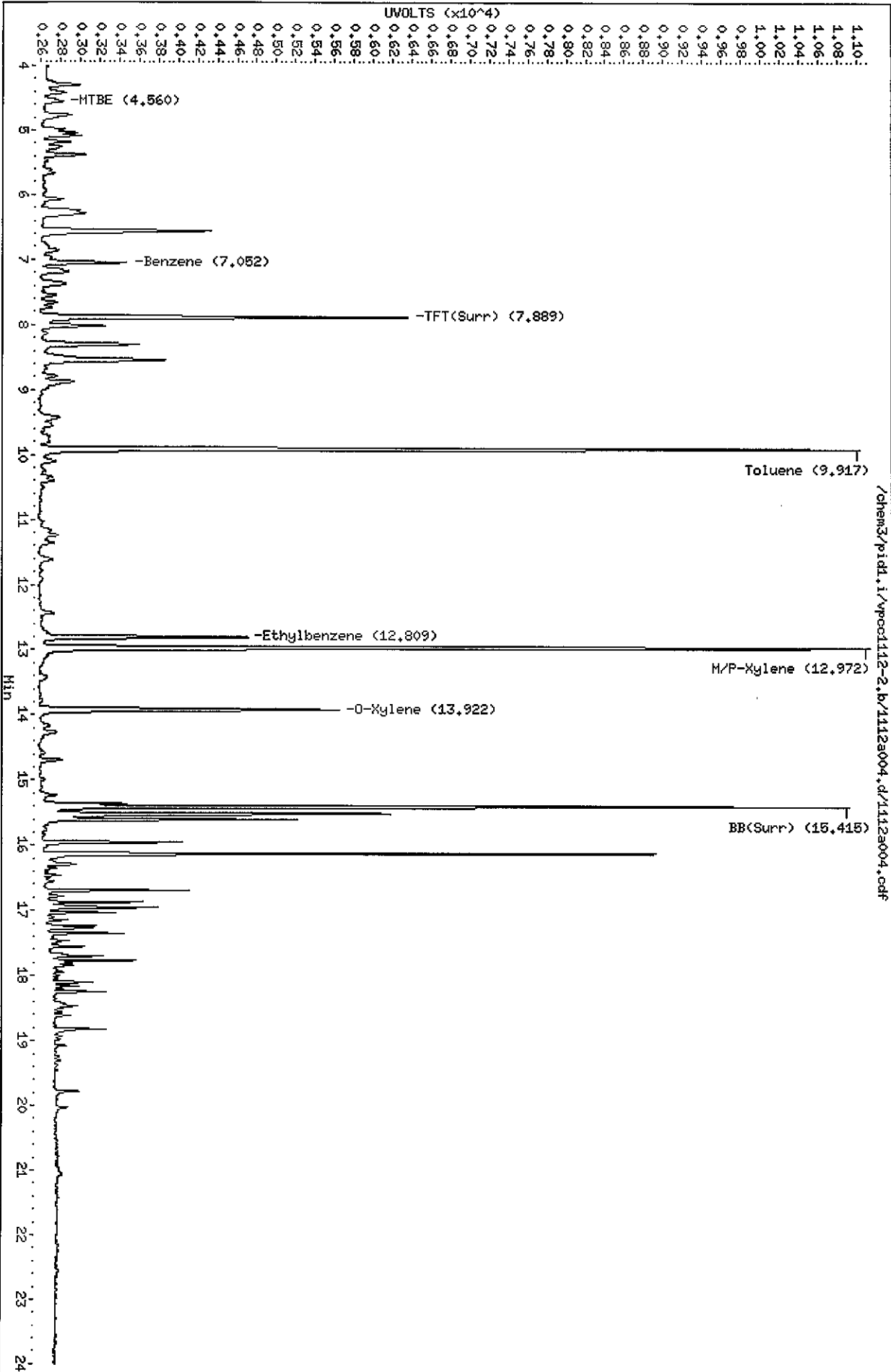
Column phase: RTX 502-2 PID

Instrument: pid1.i

Operator: PC

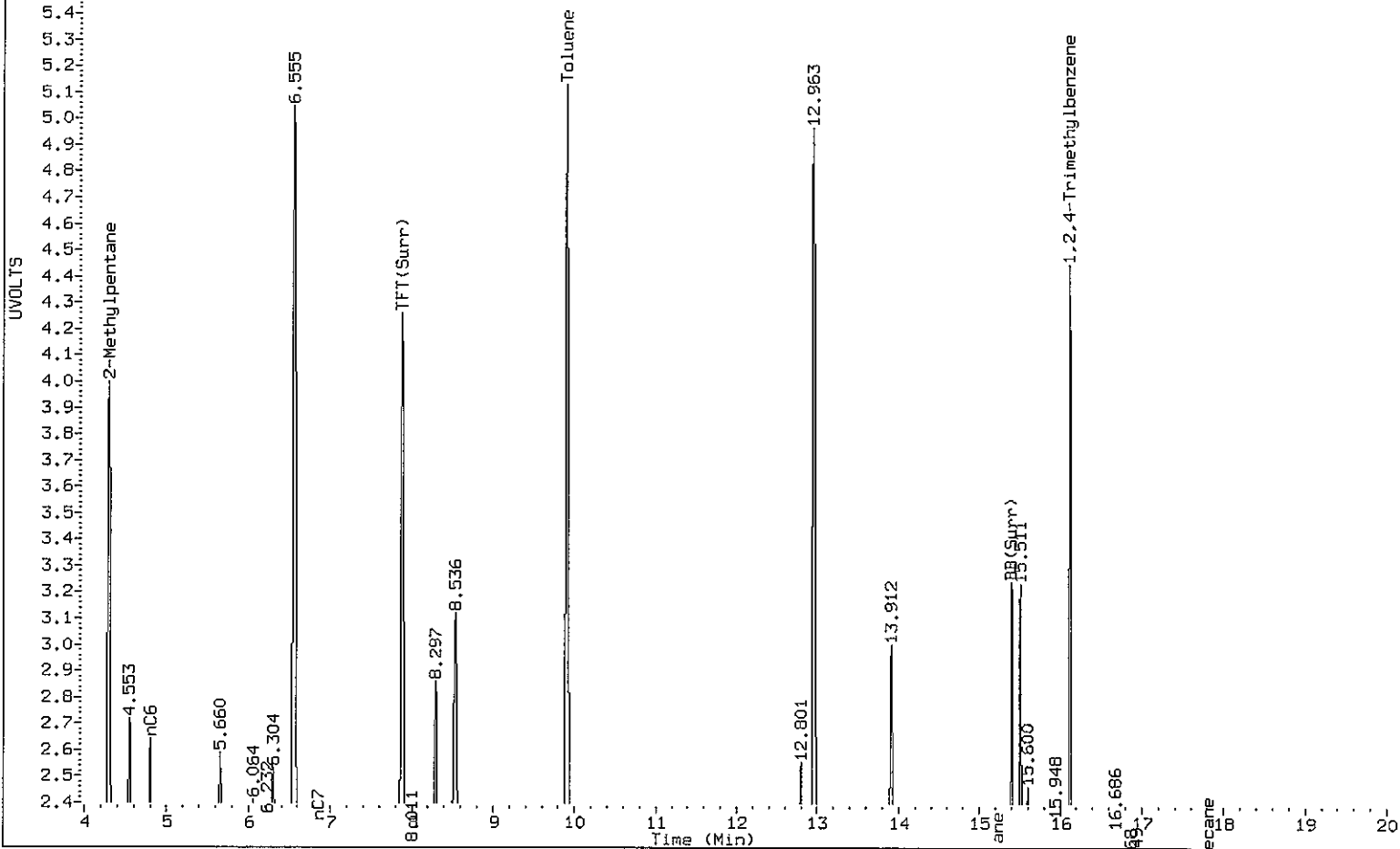
Column diameter: 0.18

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T456 00158

FID LCS1112



MANUAL INTEGRATION

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: MH Date: 11/15/11

Data File: /chem3/pid1.i/vpoc1112-1.b/1112s005.d

Date: 12-NOV-2011 11:42

Client ID:

Sample Info: LCSD1112

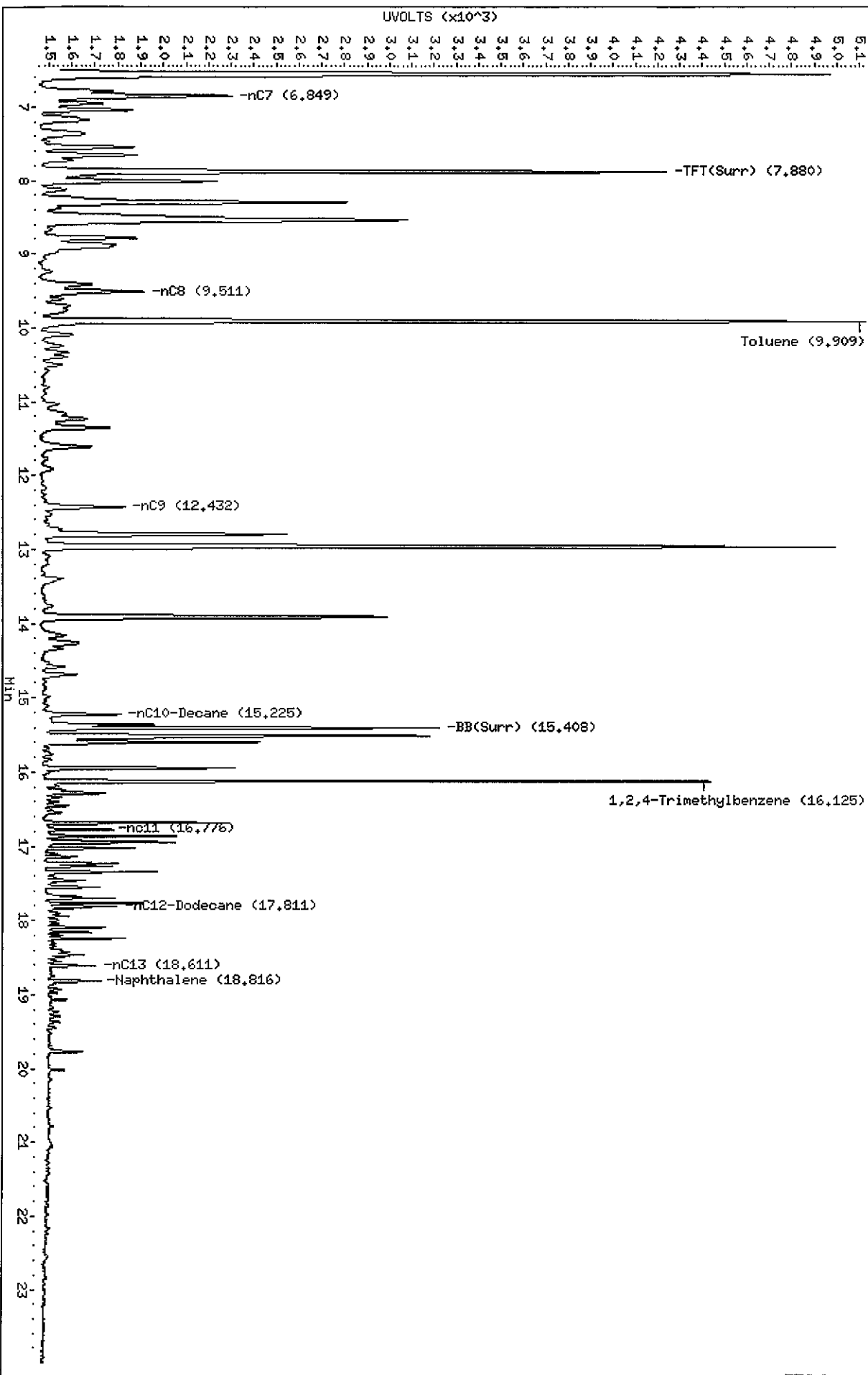
Column phase: RTX 502-2 FID

Instrument: pid1.i

Operator: PC

Column diameter: 0.18

/chem3/pid1.i/vpoc1112-1.b/1112s005.d/1112s005.pdf



Data File: /chem3/pid1.i/vpcc1112-2.b/1112a005.d

Date: 12-NOV-2011 11:42

Client ID:

Sample Info: LCSD1112

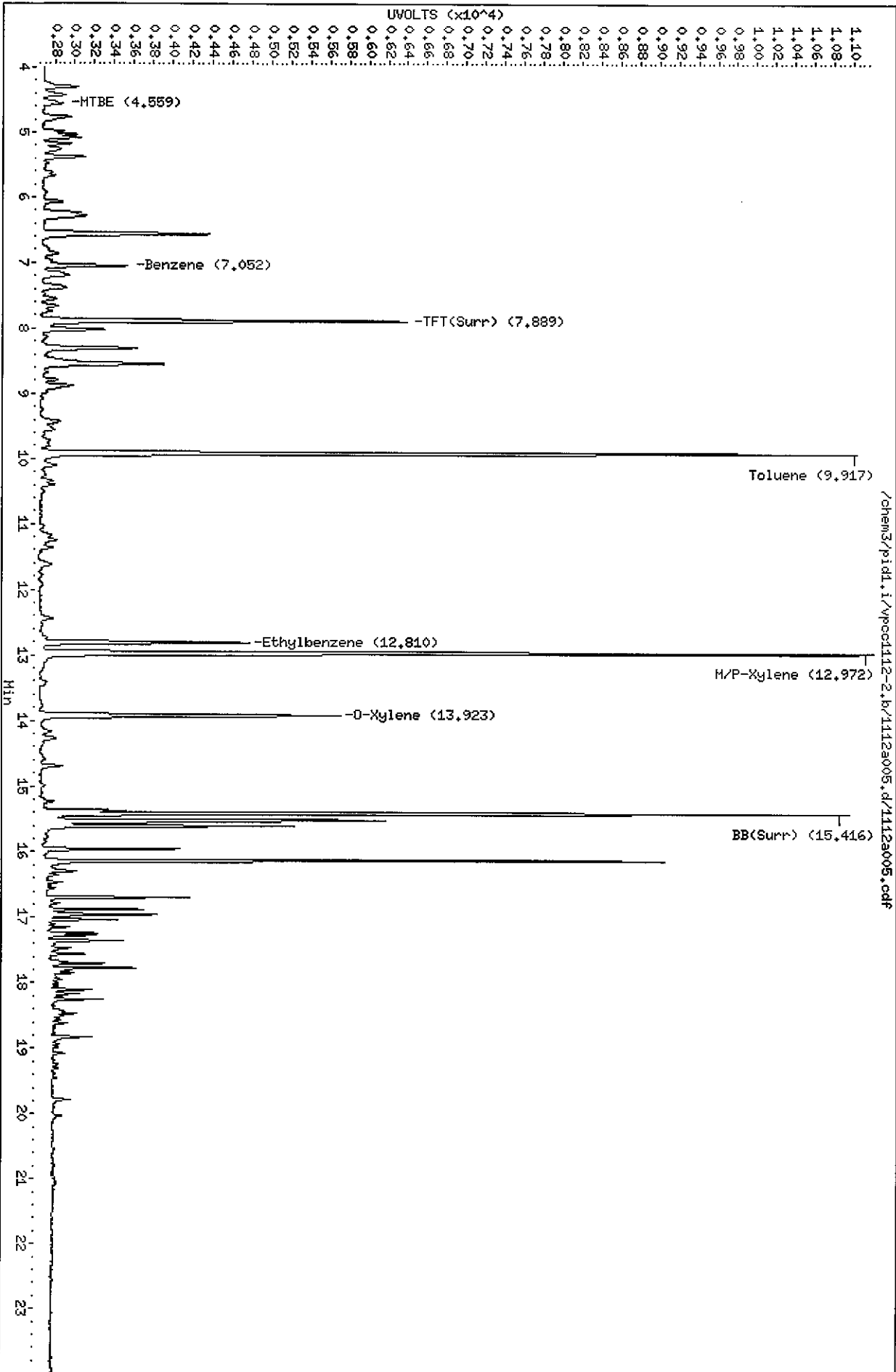
Column phase: RTX 502-2 PID

Instrument: pid1.i

Operator: PC

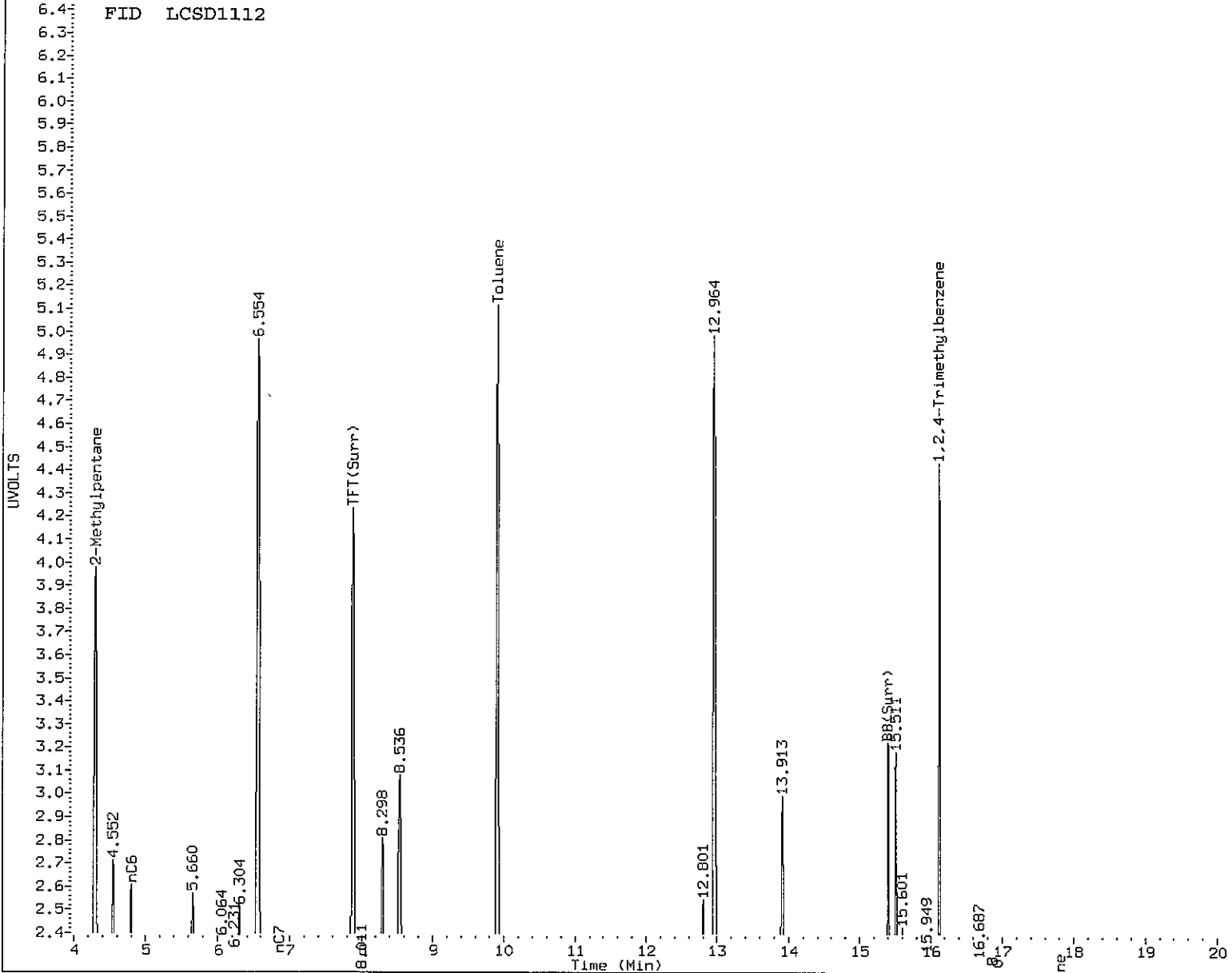
Column diameter: 0.18

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TN56 00150

FID LCSD1112



MANUAL INTEGRATION

- Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: MH

Date: 11/15/14

Data File: /chem3/pid1.i/vpoc1112-1.b/1112a006.d

Date: 12-NOV-2011 12:11

Client ID:

Sample Info: MB1112

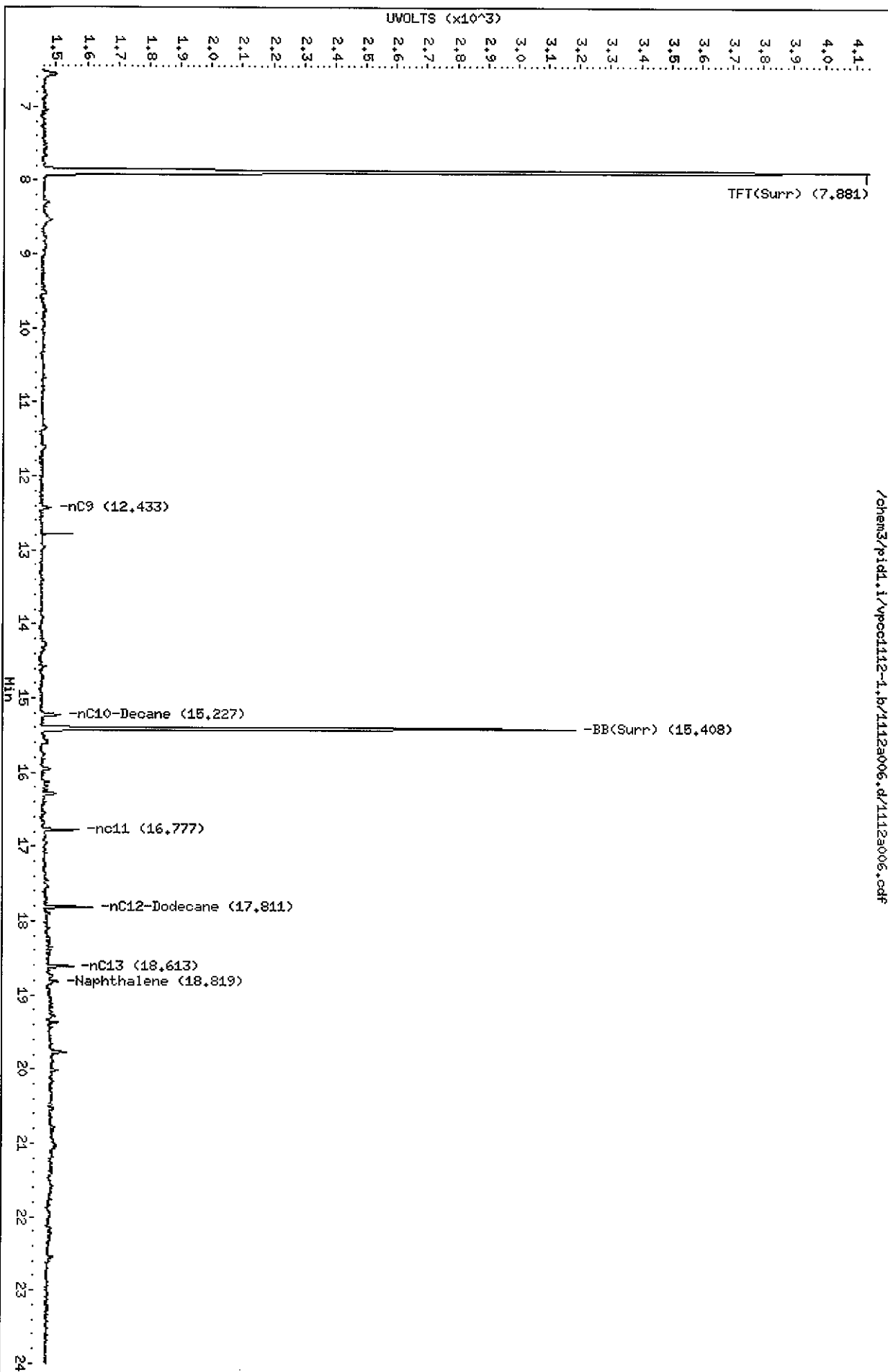
Column Phase: RTX 502-2 FID

Instrument: pid1.i

Operator: PC

Column diameter: 0.18

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Data File: /chem3/pid1.i/vpoc1112-2.b/1112a006.d

Date: 12-NOV-2011 12:11

Client ID:

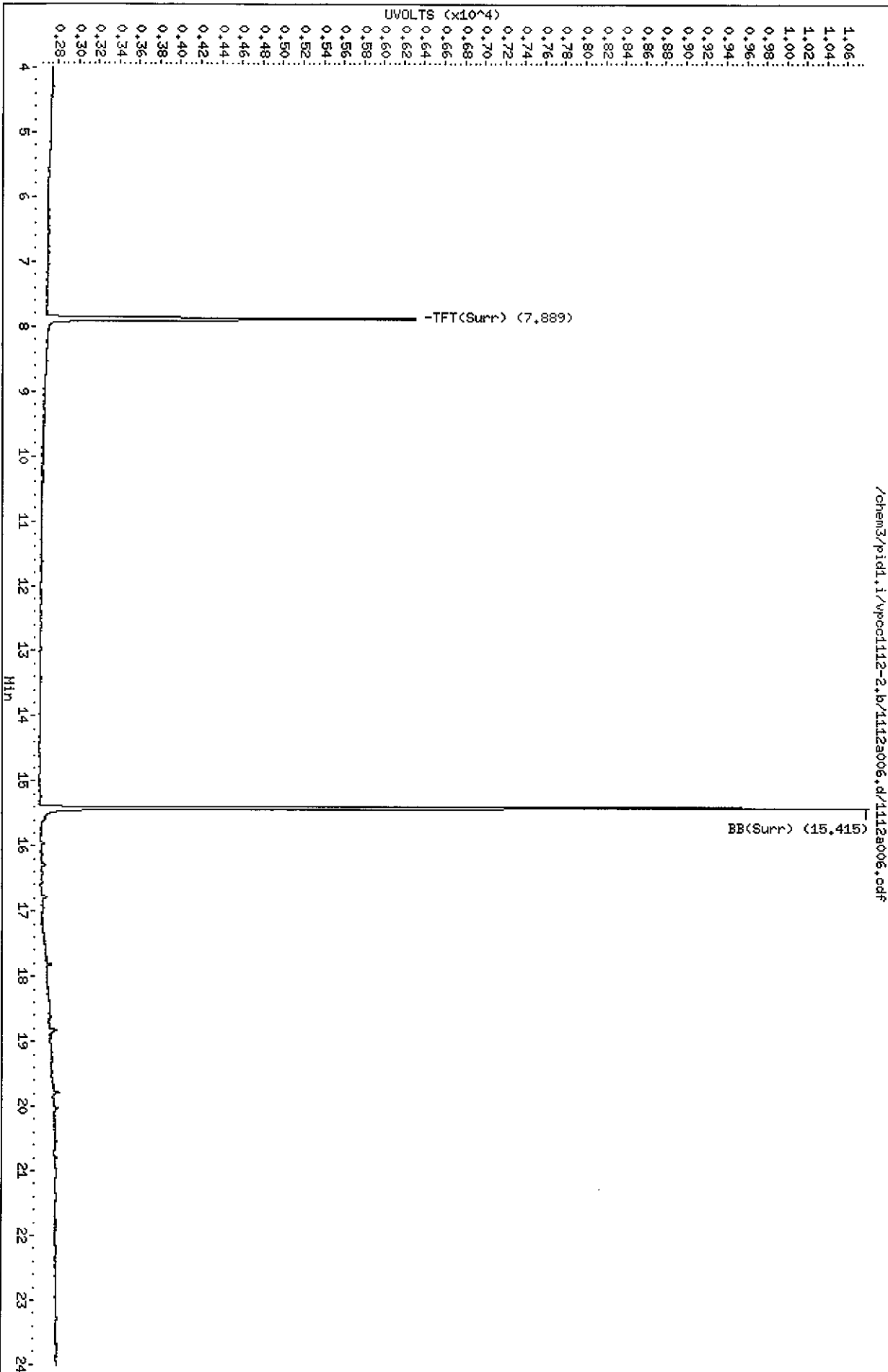
Sample Info: HB1112

Column phase: RTX 502-2 PID

Instrument: pid1.i

Operator: PC

Column diameter: 0.18



Data File: /chem3/pid1.i/vpcc112-1.b/1112a007.d

Date: 12-NOV-2011 12:40

Client ID:

Sample Info: TMS9A

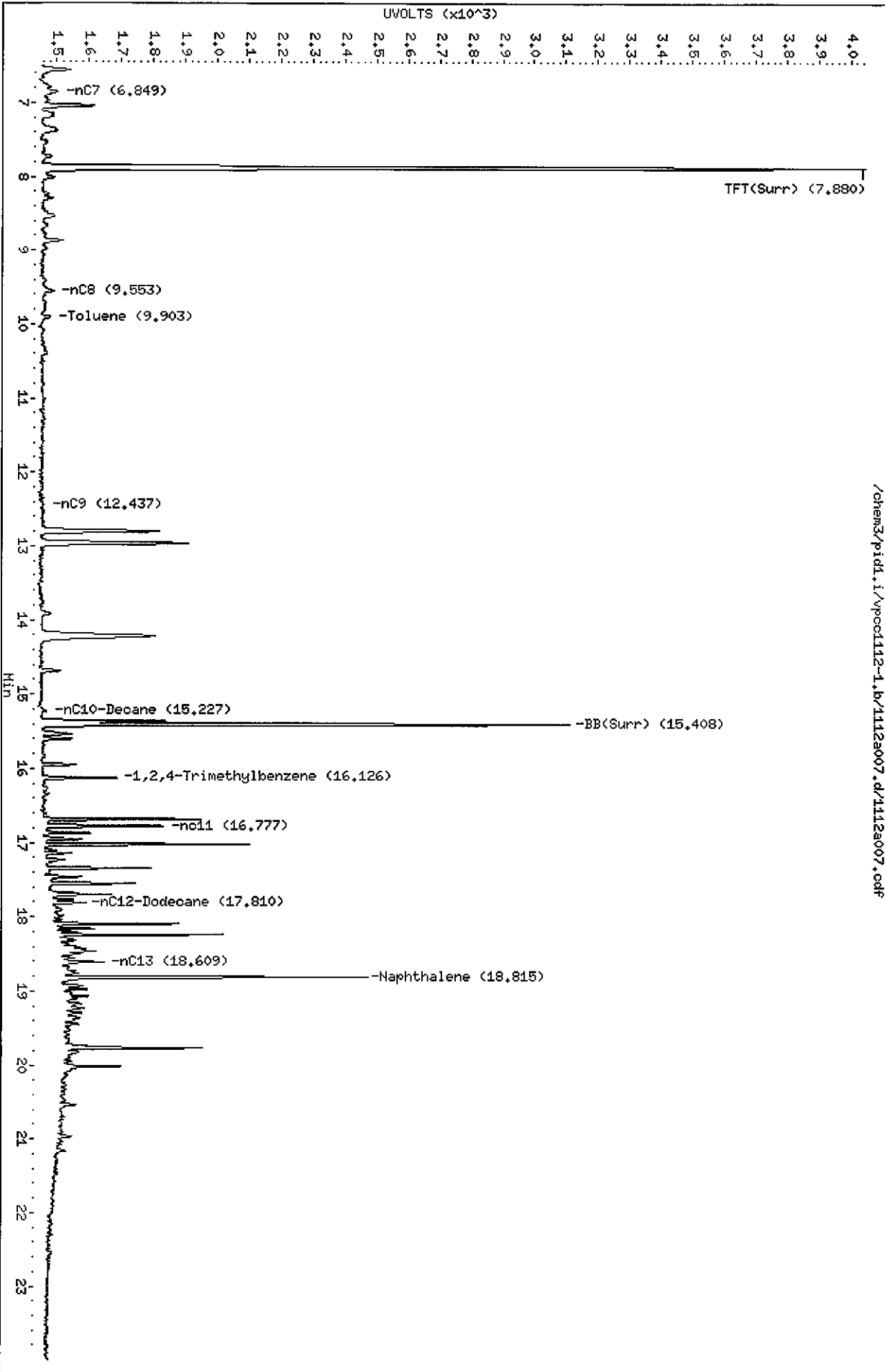
Column phase: RTX 502-2 FID

Instrument: pid1.i

Operator: PC

Column diameter: 0.18

Page 1



TW56 0010

Data File: /chem3/pid1.i/vpoc1112-2.b/1112a007.d

Date: 12-NDV-2011 12:40

Client ID:

Sample Info: TMS9A

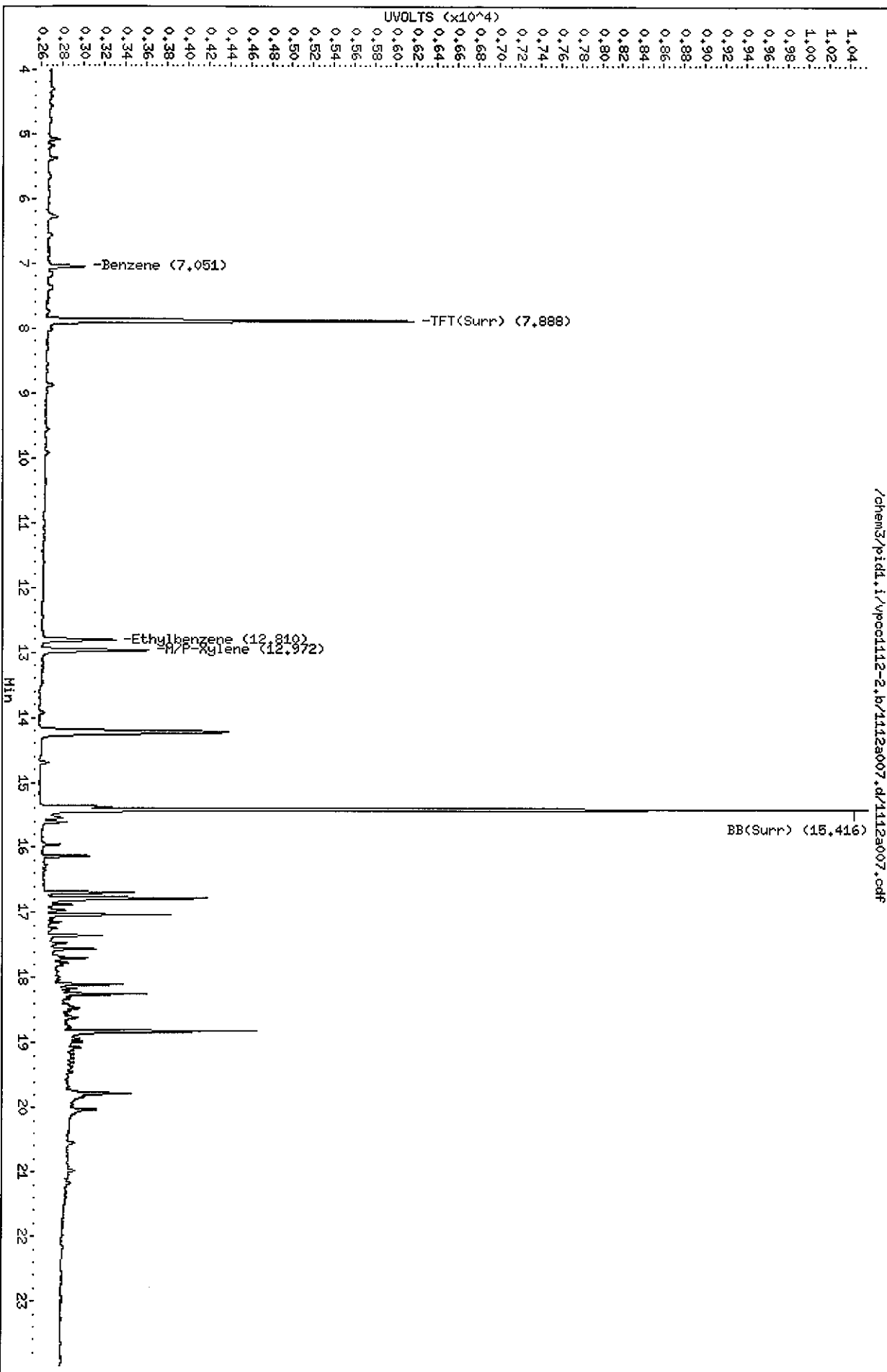
Column phase: RTX 502-2 PID

Instrument: pid1.i

Operator: PC

Column diameter: 0.18

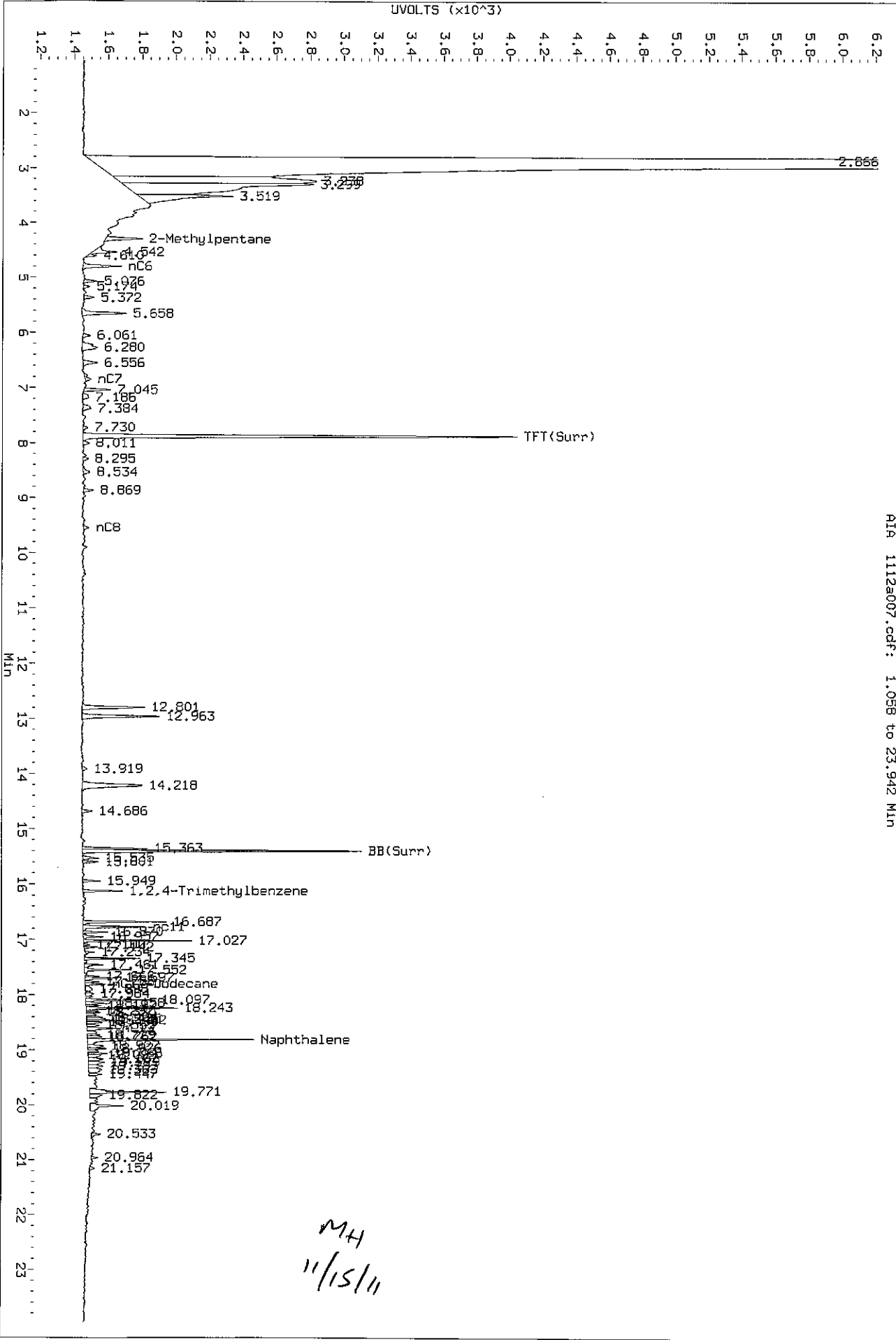
Page 1



/chem3/pid1.i/vpoc1112-2.b/1112a007.d/1112a007.cdf

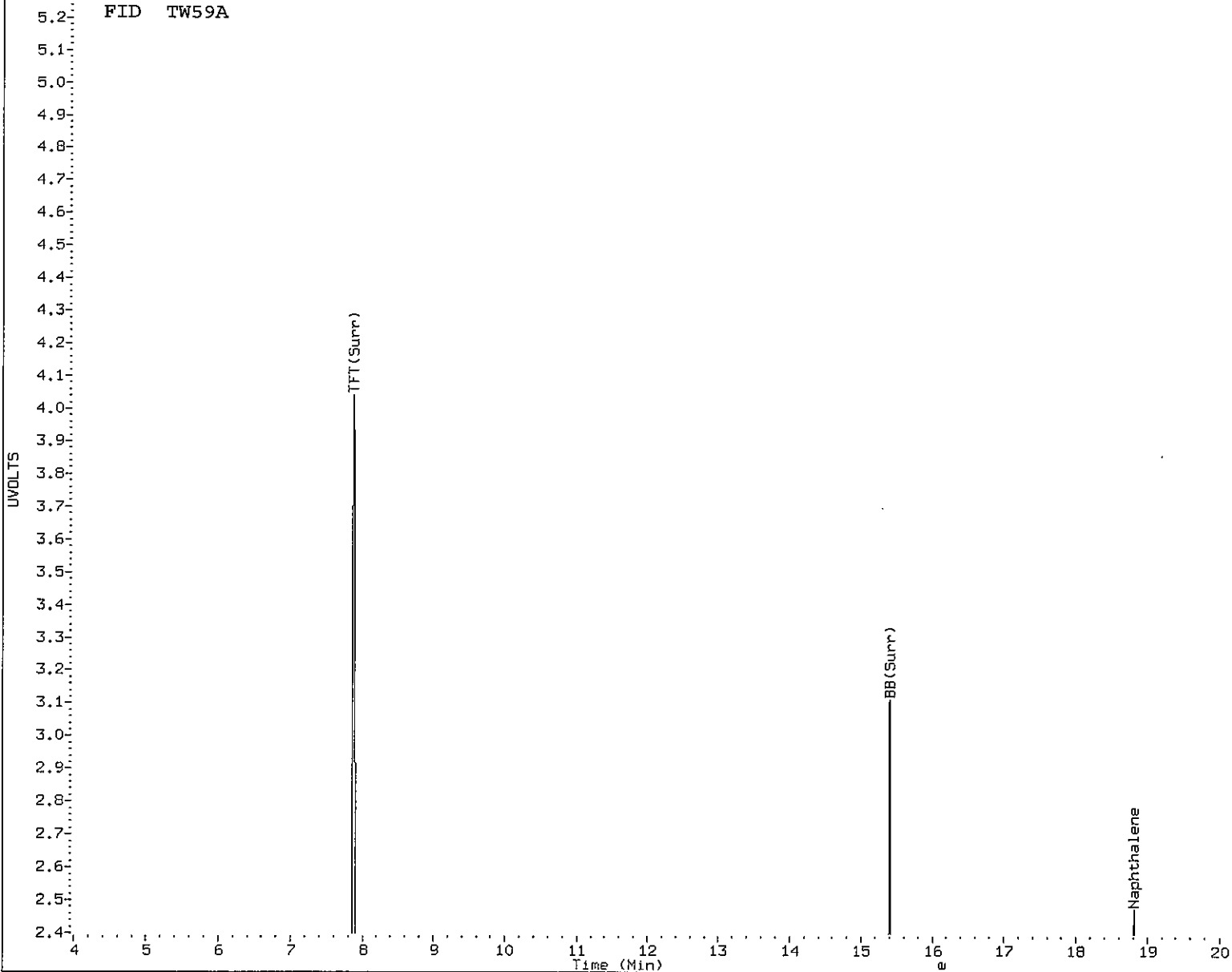
TW50: 00105

Data File: /chem3/pid1.i/vpcc1112-1.b/1112a007.d/1112a007.cdf
 Injection Date: 12-NDV-2011 12:40
 Instrument: pid1.i
 Client Sample ID:



AIA 1112a007.cdf: 1.058 to 23.942 MIN

FID TW59A



MANUAL INTEGRATION

- Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: MH Date: 11/15/11

Data File: /chem3/pid1.i/vpoc1112-1.b/1112a008.d

Date: 12-NOV-2011 13:09

Client ID:

Sample Info: TMS9B

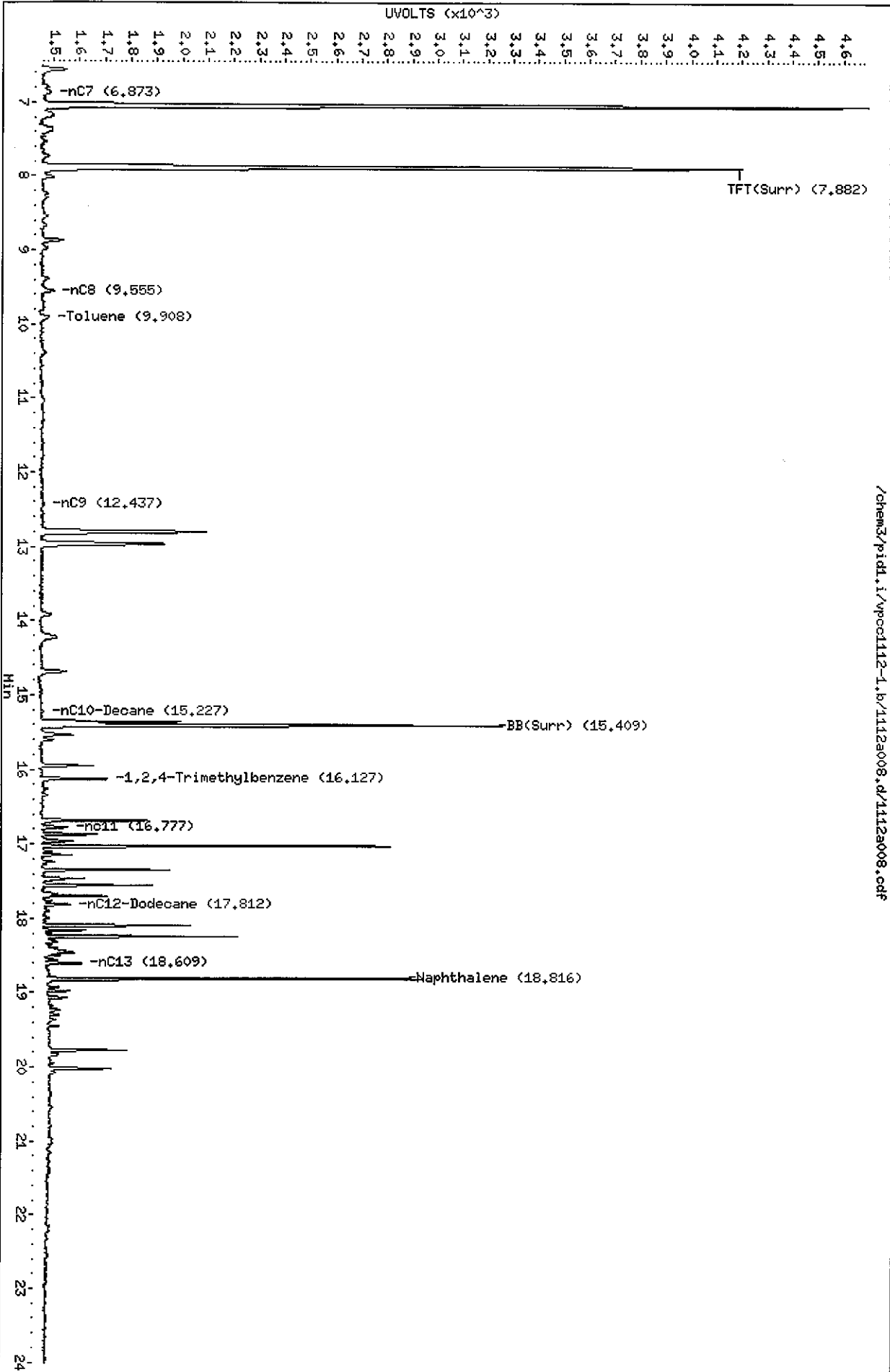
Column phase: RTX 502-2 FID

Instrument: pid1.i

Operator: PC

Column diameter: 0.18

Page 1



TUES 00100

Data File: /chem3/pid1.i/vpec1112-2.b/1112a008.d

Date: 12-NOV-2011 13:09

Client ID:

Sample Info: TW59B

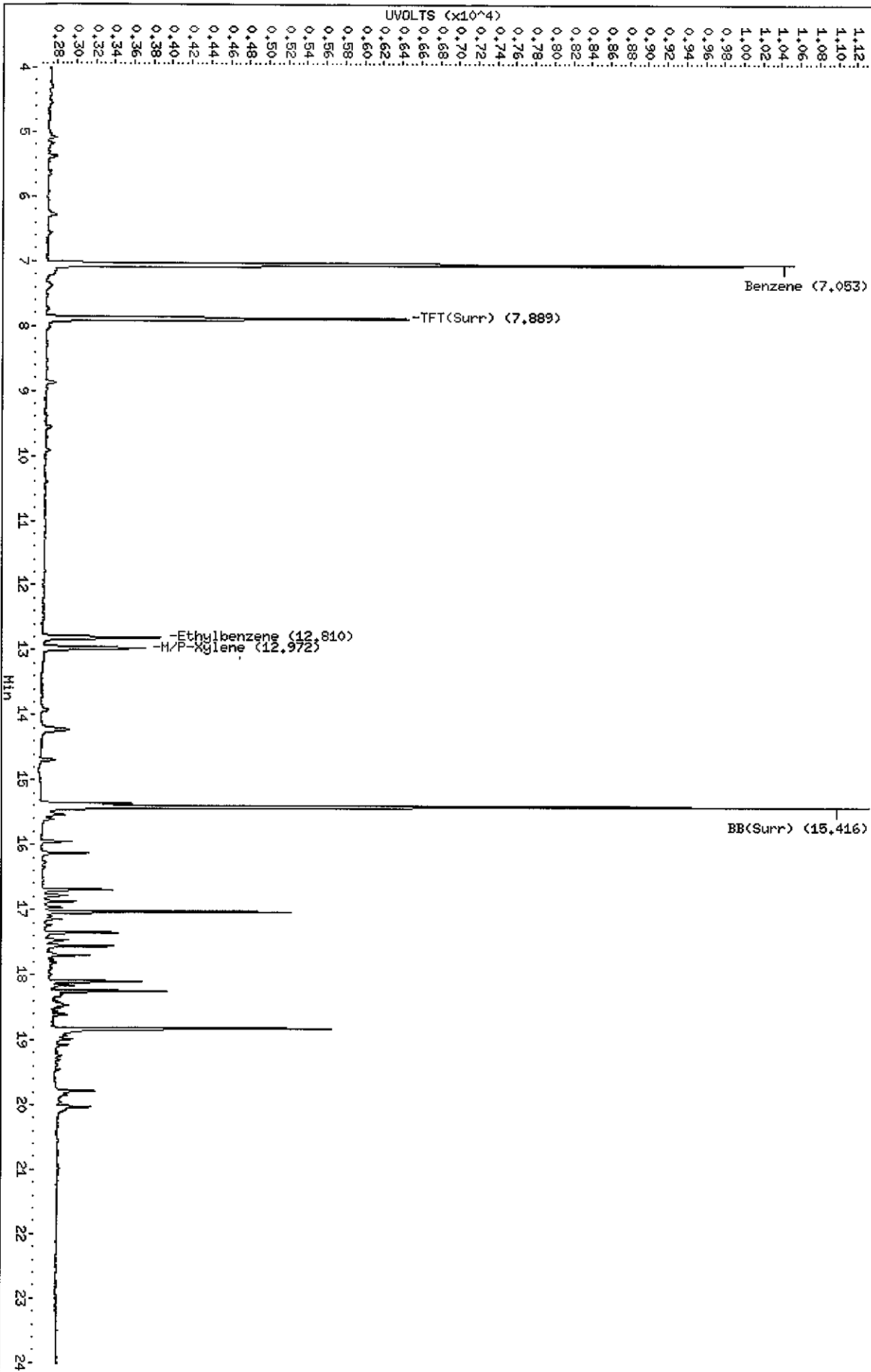
Column phase: RTX 502-2 PID

Instrument: pid1.i

Operator: PC

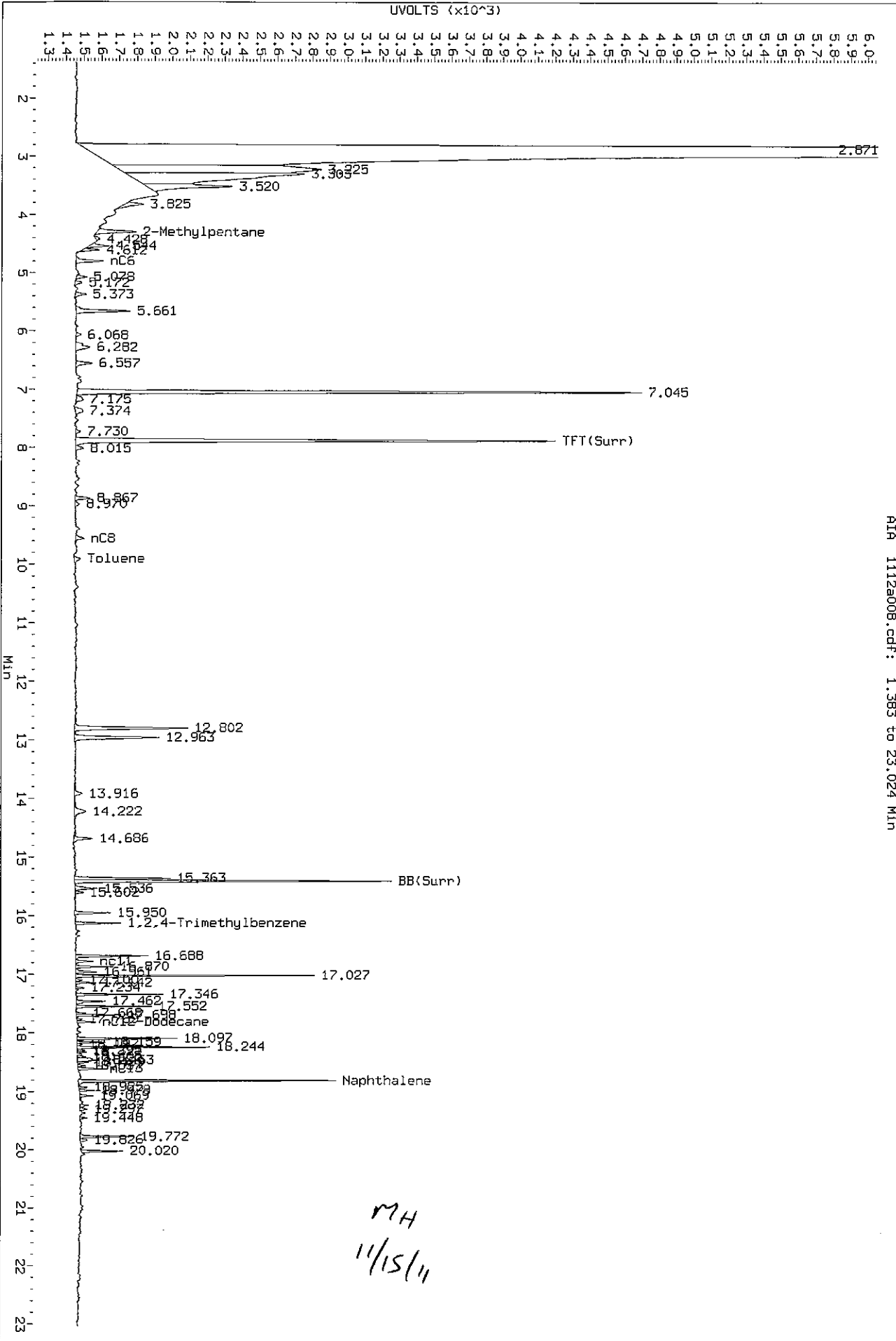
Column diameter: 0.18

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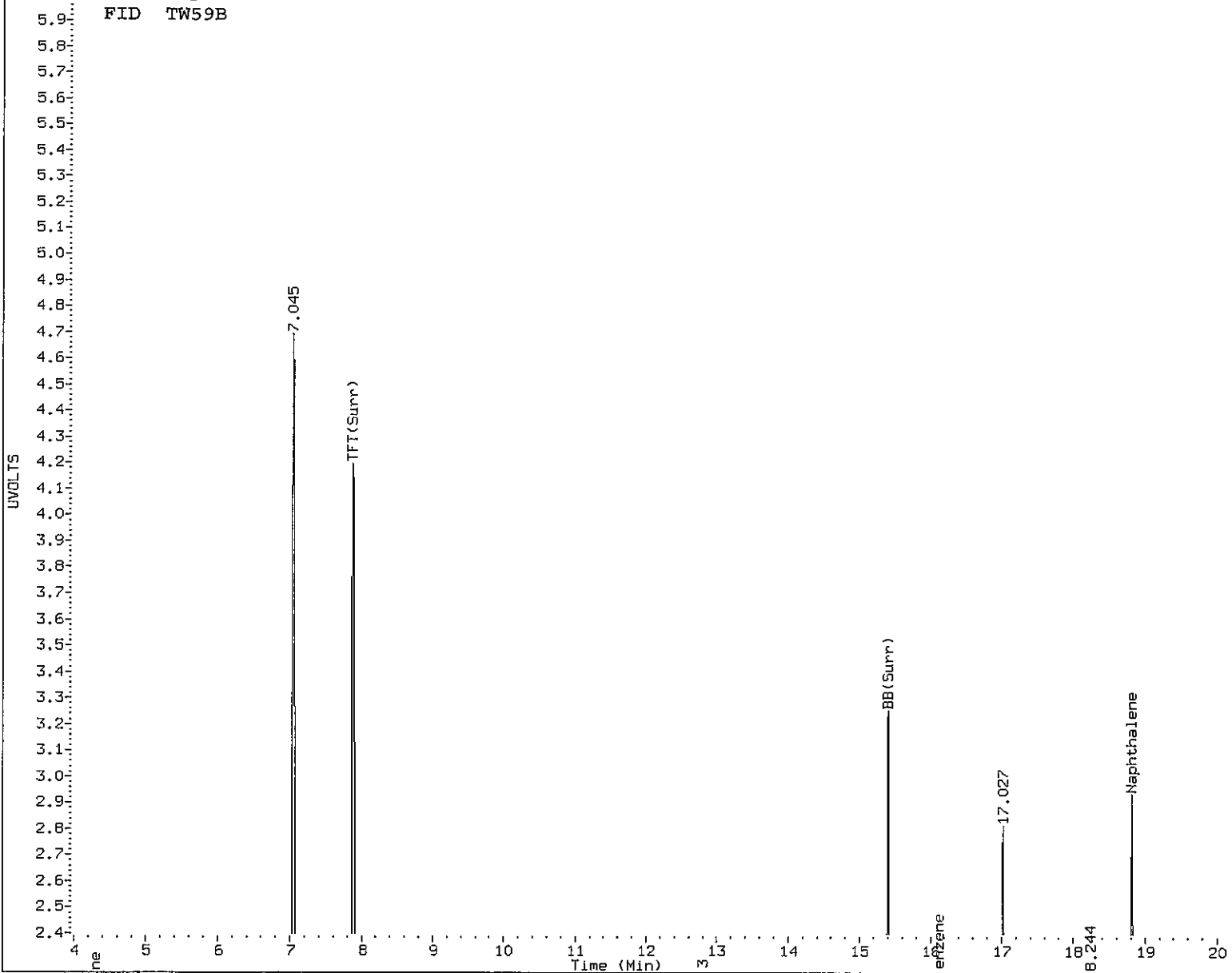


Data File: /chem3/pid1.1/vpc1112-1.b/1112a008.d/1112a008.cdf
Injection Date: 12-NOV-2011 13:09
Instrument: pid1.1
Client Sample ID:

AIA 1112a008.cdf: 1.383 to 23.024 MIN



FID TW59B



MANUAL INTEGRATION

- Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: MH Date: 11/15/01

Data File: /chem3/pid1.i/vpoc1112-1.b/1112a009.d

Date: 12-NOV-2011 13:38

Client ID:

Sample Info: TM59C

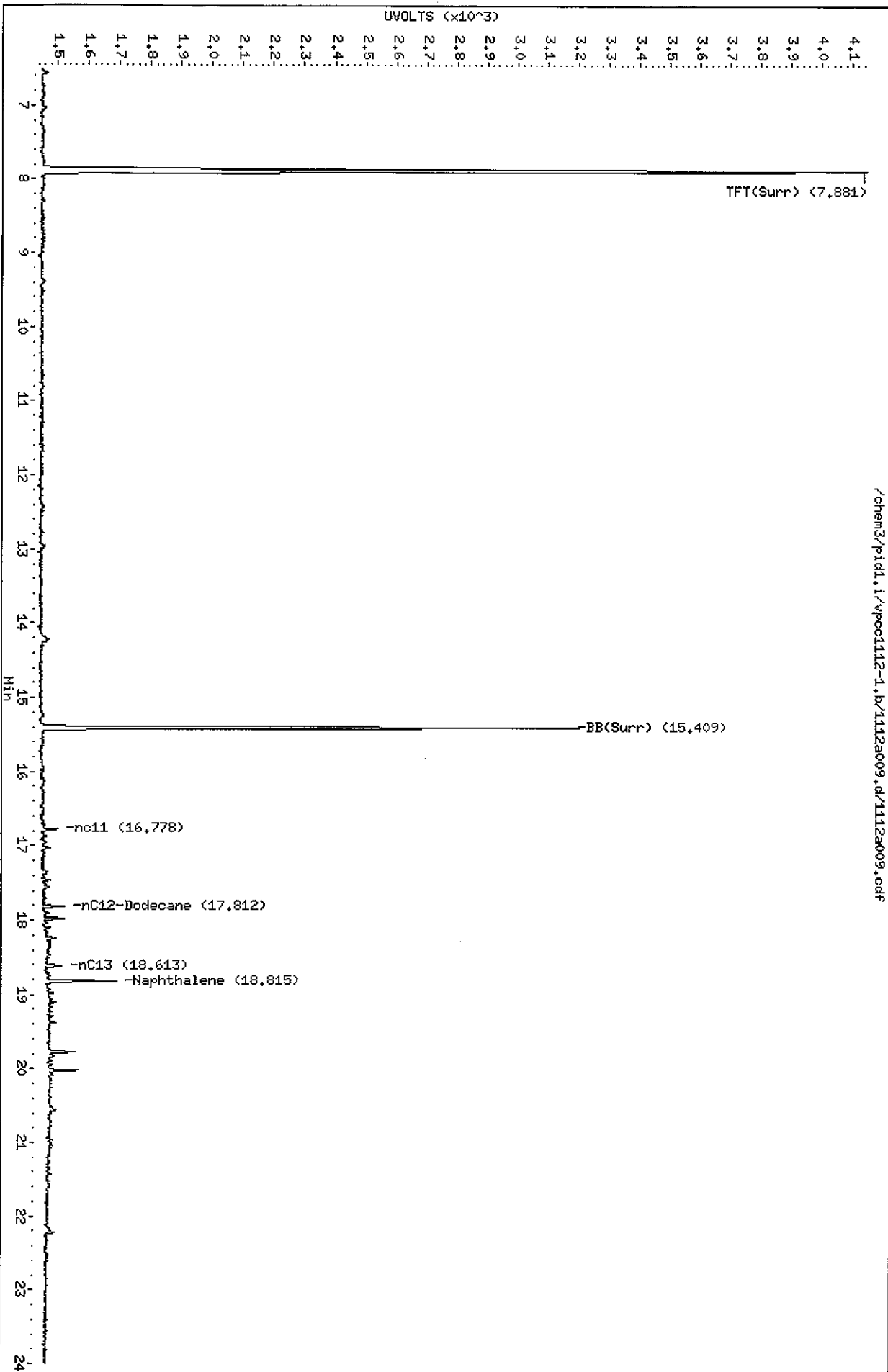
Instrument: pid1.i

Operator: PC

Column diameter: 0.18

Column phase: RTX 502-2 FID

/chem3/pid1.i/vpoc1112-1.b/1112a009.d/1112a009.cdf



Data File: /chem3/pid1.i/vpcc1112-2.b/1112s009.d

Date: 12-NDV-2011 13:38

Client ID:

Sample Info: TMB9C

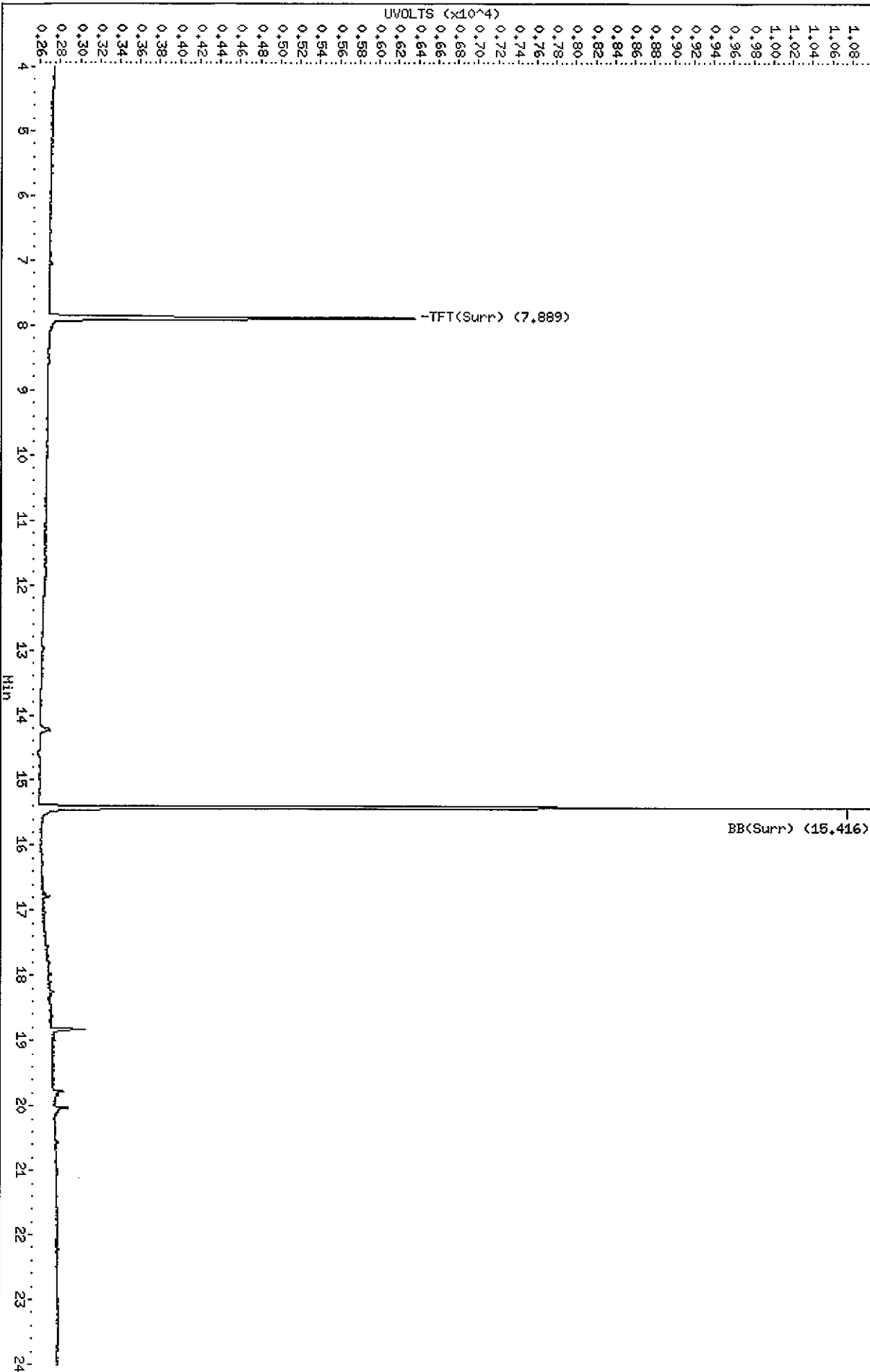
Column phase: RTX 502-2 PID

Instrument: pid1.i

Operator: PC

Column diameter: 0.18

/chem3/pid1.i/vpcc1112-2.b/1112s009.d/1112s009.cdf



Data File: /chem3/pid1.i/vpoc1112-1.b/1112a010.d

Date: 12-NOV-2011 14:08

Client ID:

Sample Info: TMS9D

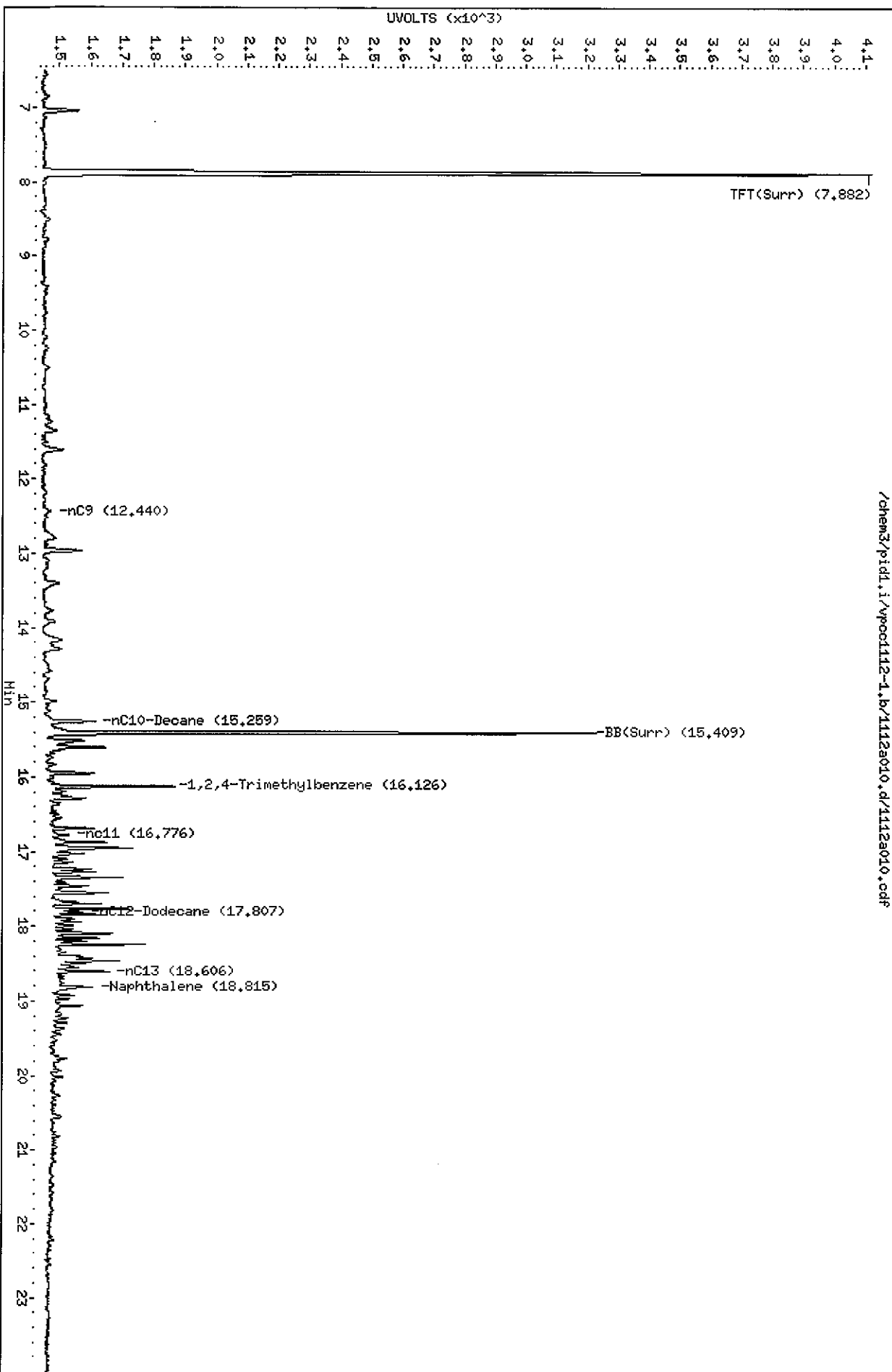
Column Phase: RTX 502-2 FID

Instrument: pid1.i

Operator: PC

Column diameter: 0.18

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Data File: /chem3/pid1.i/vpoc1112-2.b/1112a010.d

Date: 12-NOV-2011 14:08

Client ID:

Sample Info: TW59D

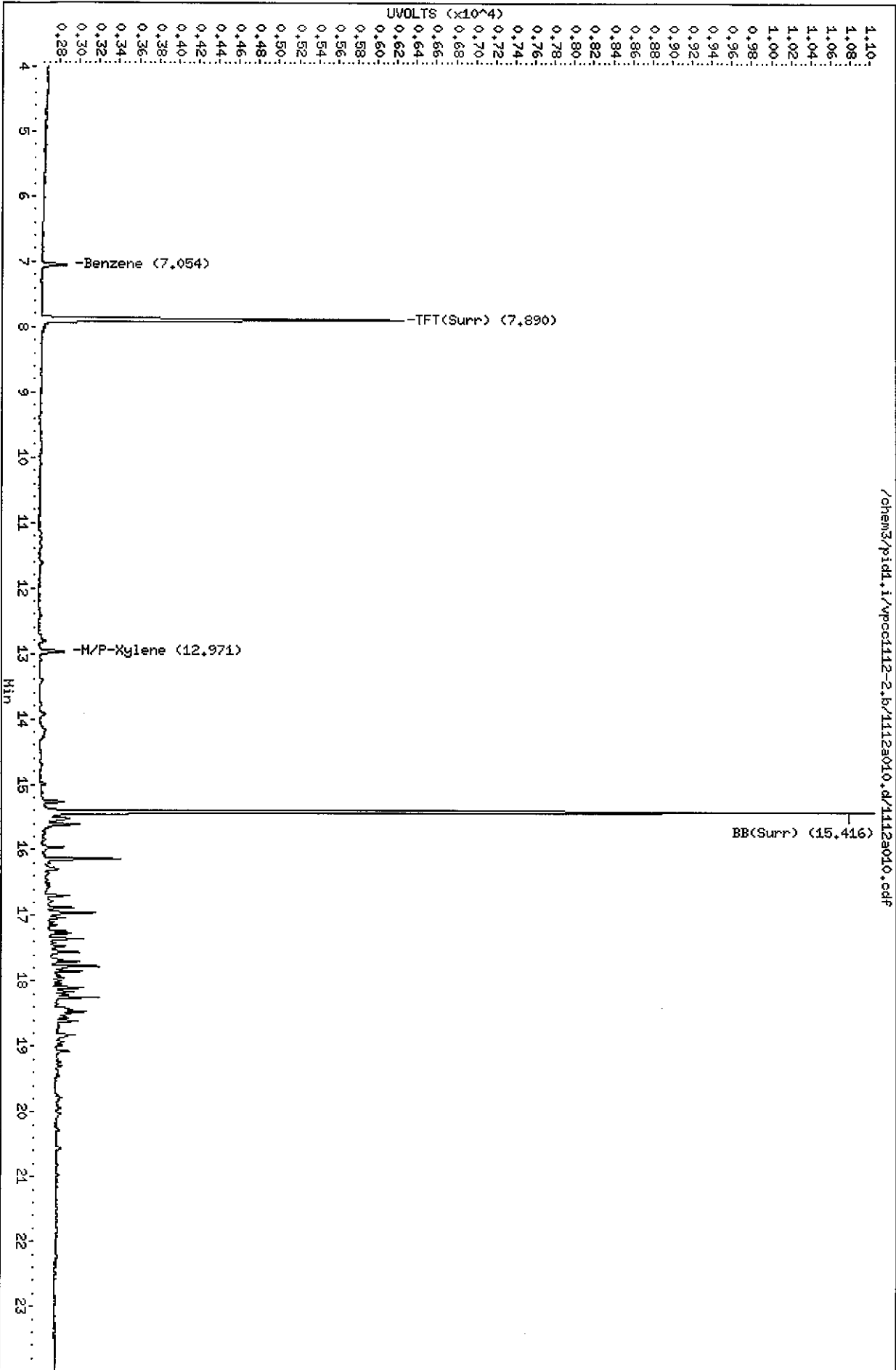
Column phase: RTX 502-2 PID

Instrument: pid1.i

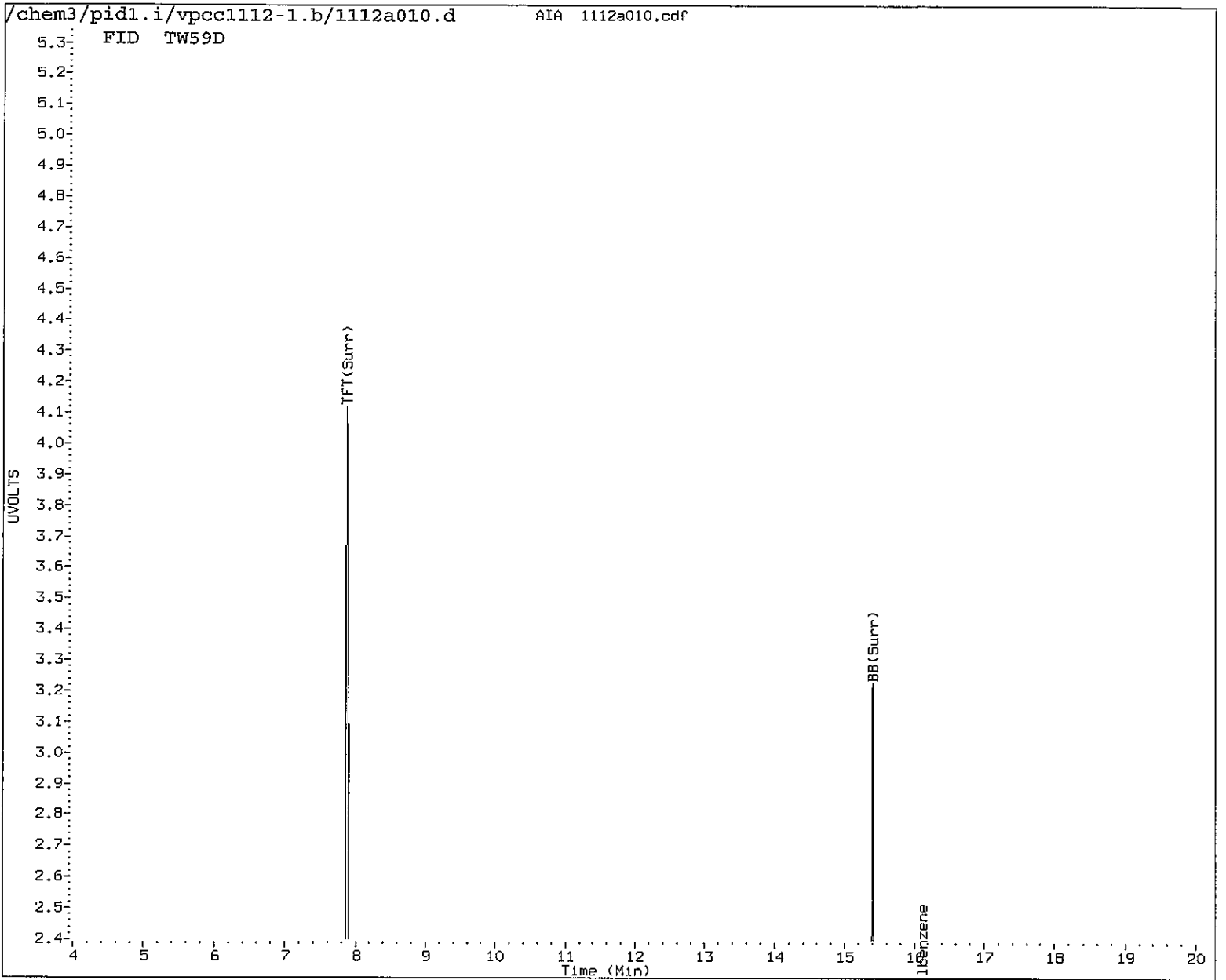
Operator: PC

Column diameter: 0.18

Page 1



TW59: 501 75



MANUAL INTEGRATION

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: MH Date: 11/15/11

Data File: /chem3/pid1.i/vpoc1112-1.b/1112a011.d

Date: 12-NOV-2011 14:37

Client ID:

Sample Info: TMS9E

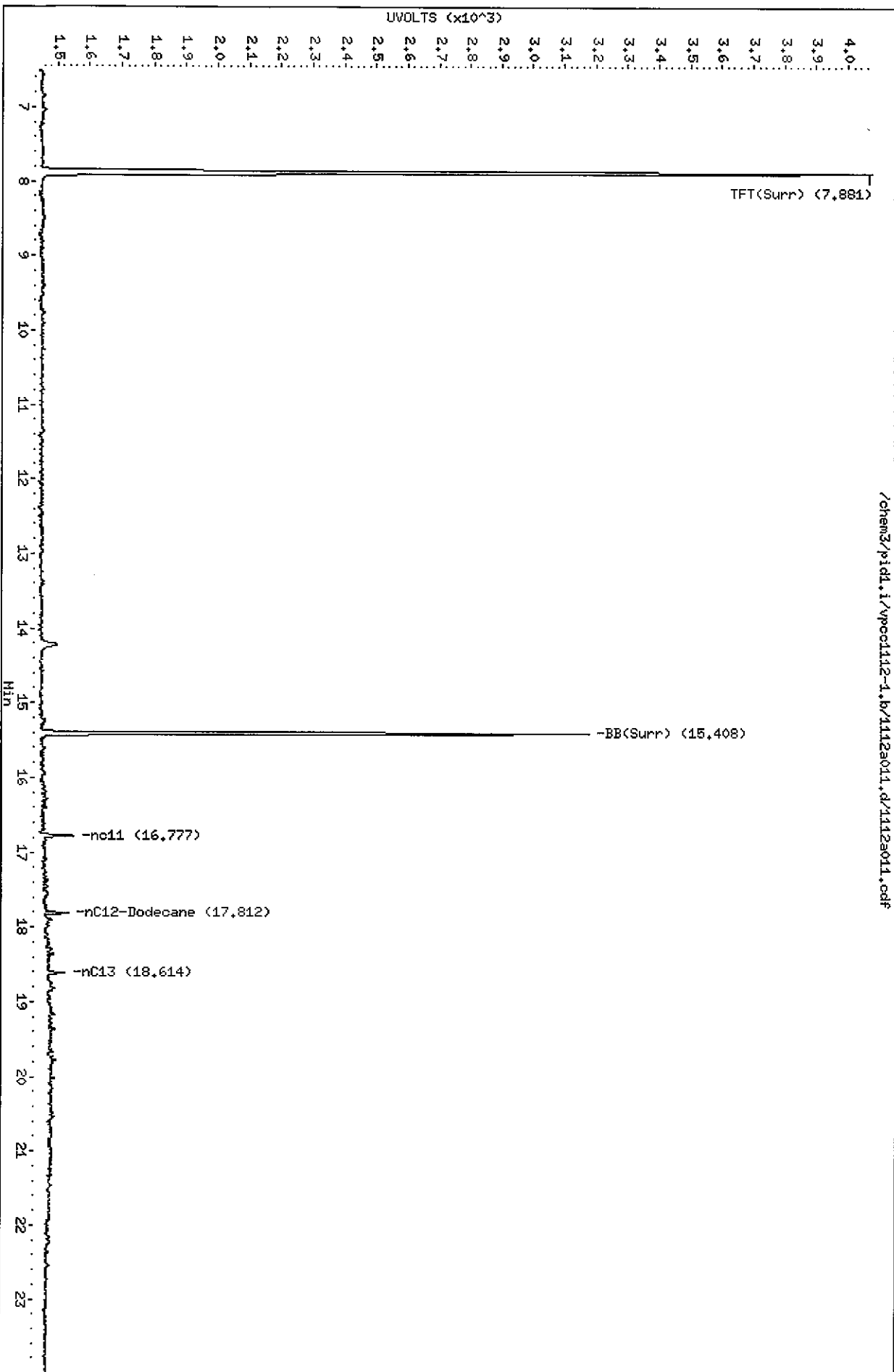
Column phase: RTX 502-2 FID

Instrument: pid1.i

Operator: PC

Column diameter: 0.18

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Data File: /chem3/pid1.i/vpoc1112-2.b/1112a011.d

Date: 12-NOV-2011 14:37

Client ID:

Sample Info: TM59E

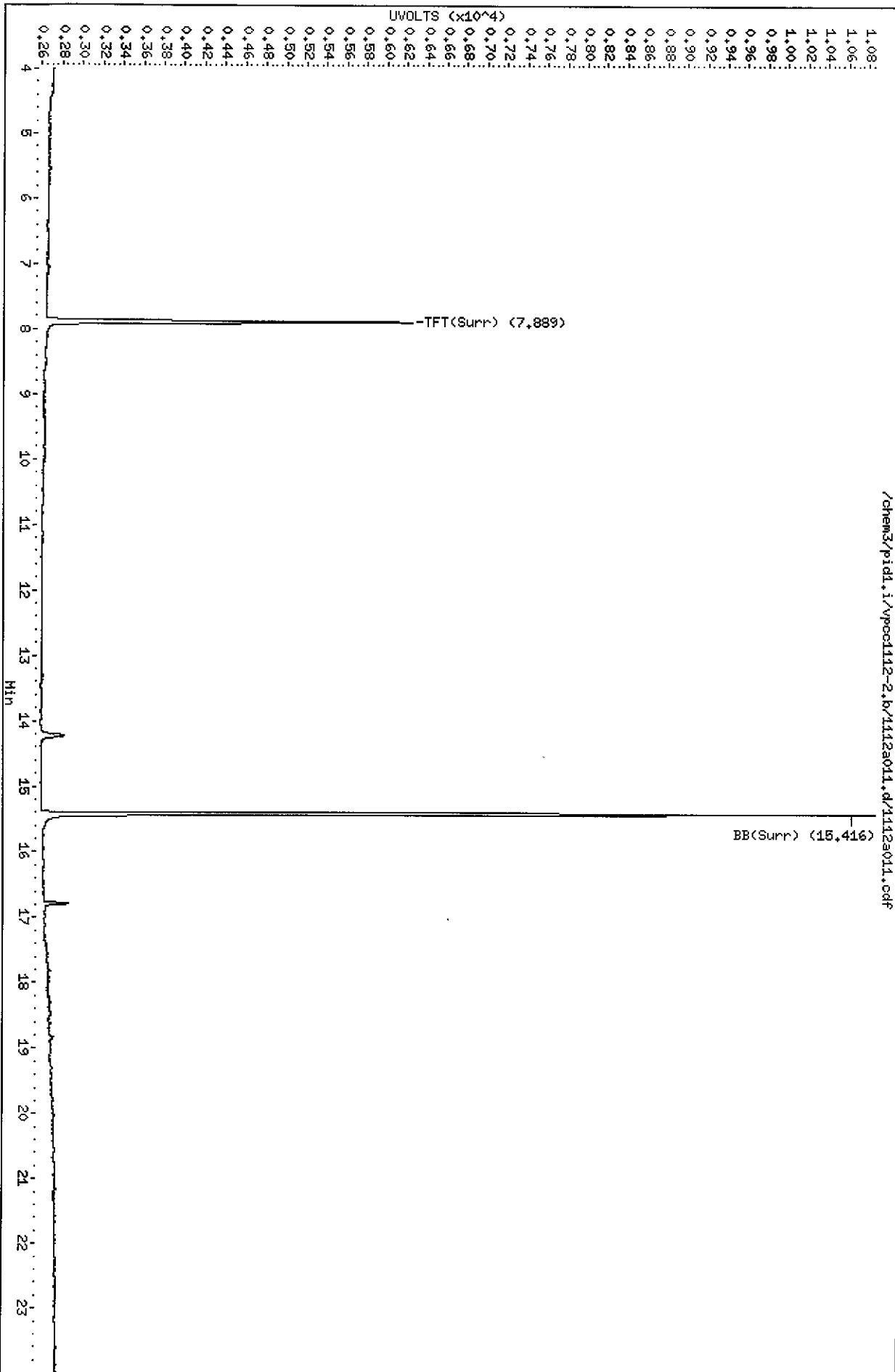
Column phase: RTX 502-2 P10

Instrument: pid1.i

Operator: PC

Column diameter: 0.18

Page 1



/chem3/pid1.i/vpoc1112-2.b/1112a011.d/1112a011.cdf

Data File: /chem3/pidd,i/vpcc01112-1.b/1112s012.d

Date: 12-NOV-2011 15:07

Client ID:

Sample Info: TMS9F

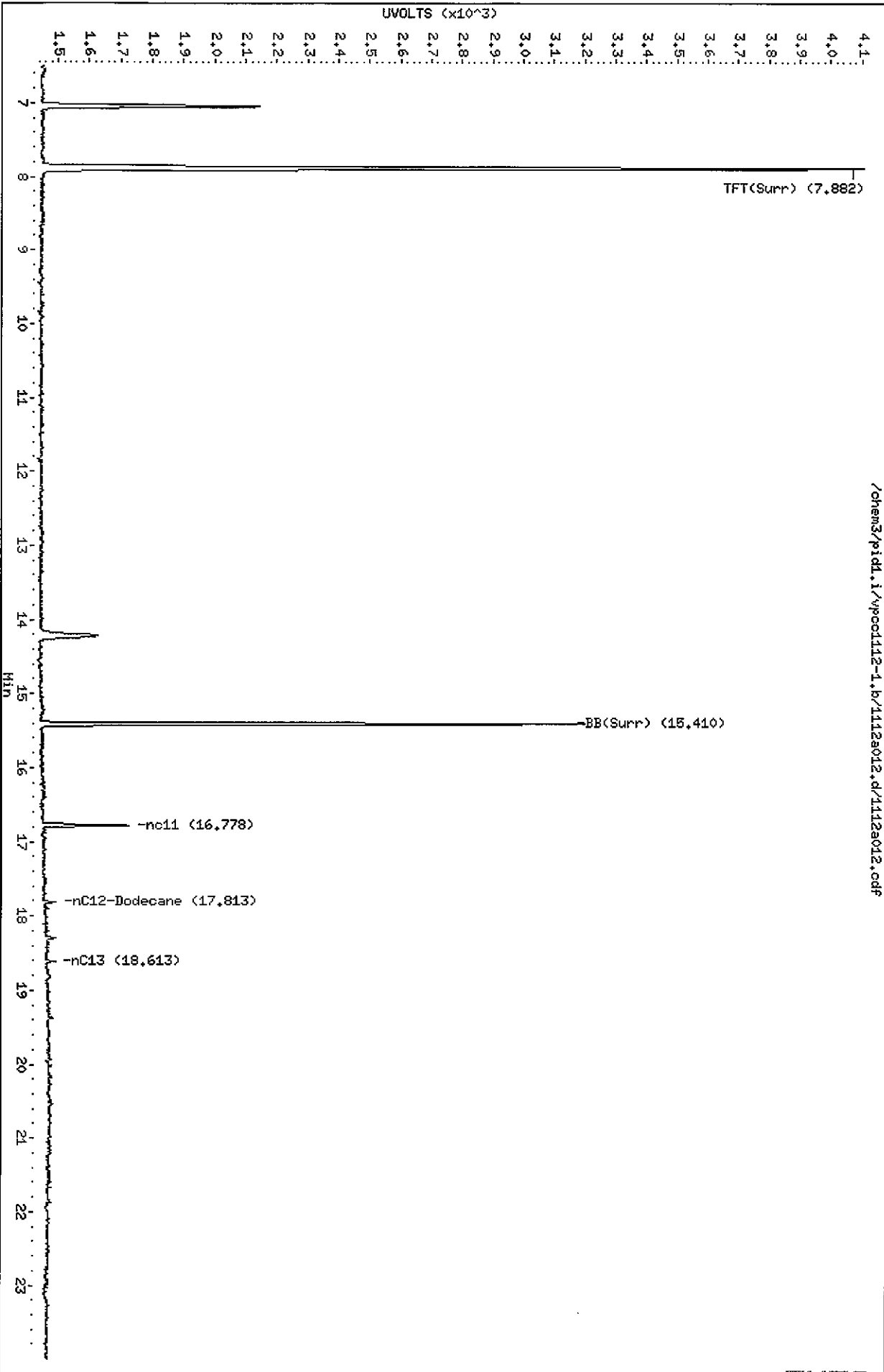
Column phase: RTX 502-2 FID

Instrument: pidd.i

Operator: PC

Column diameter: 0.18

Page 1



/chem3/pidd,i/vpcc01112-1.b/1112s012.d/1112s012.cdf

Data File: /chem3/pid1.i/vpec01112-2.b/1112s012.d

Date: 12-NDV-2011 15:07

Client ID:

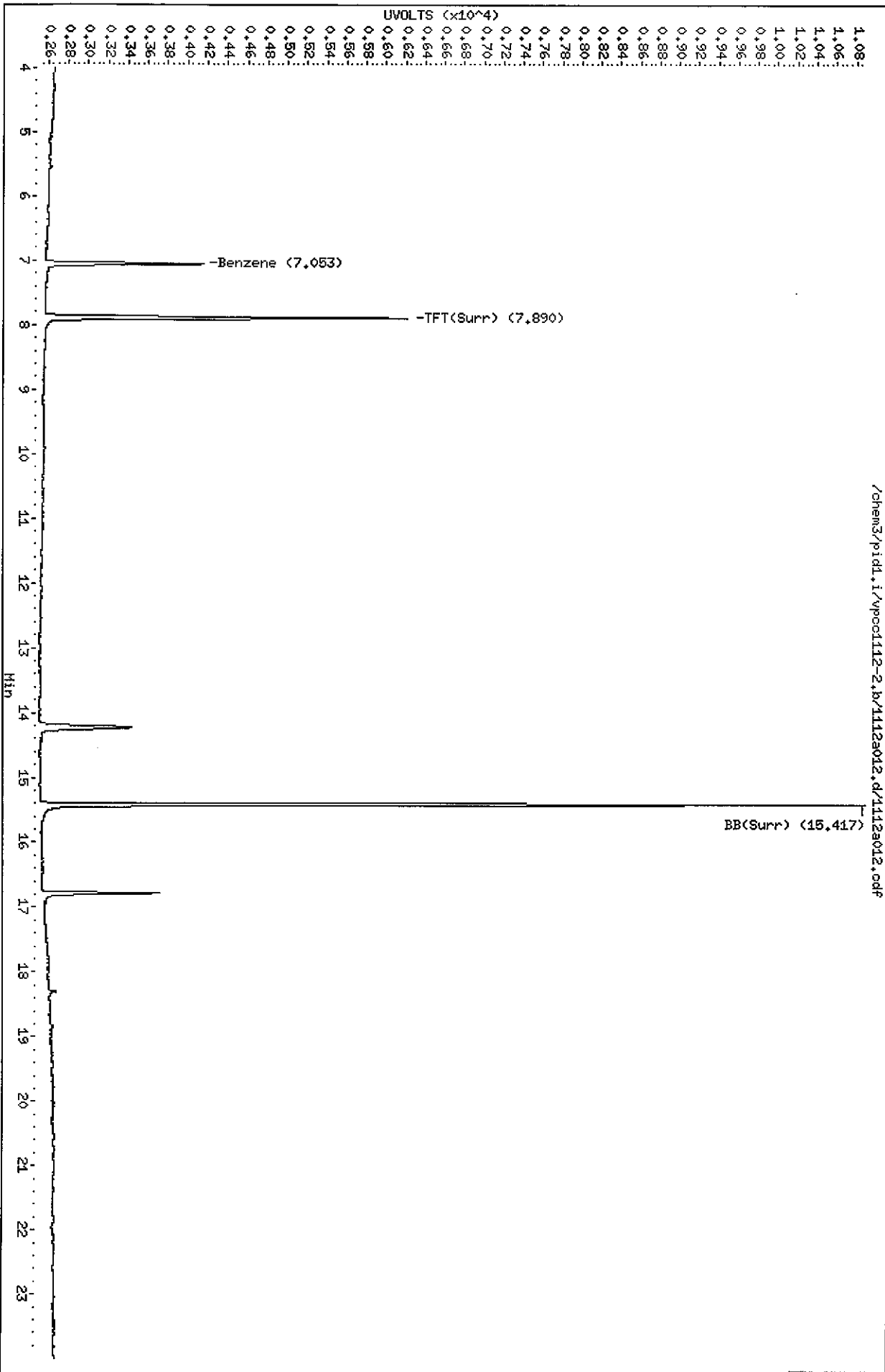
Sample Info: TMS9F

Column phase: RTX 502-2 PID

Instrument: pid1.i

Operator: PC

Column diameter: 0.18



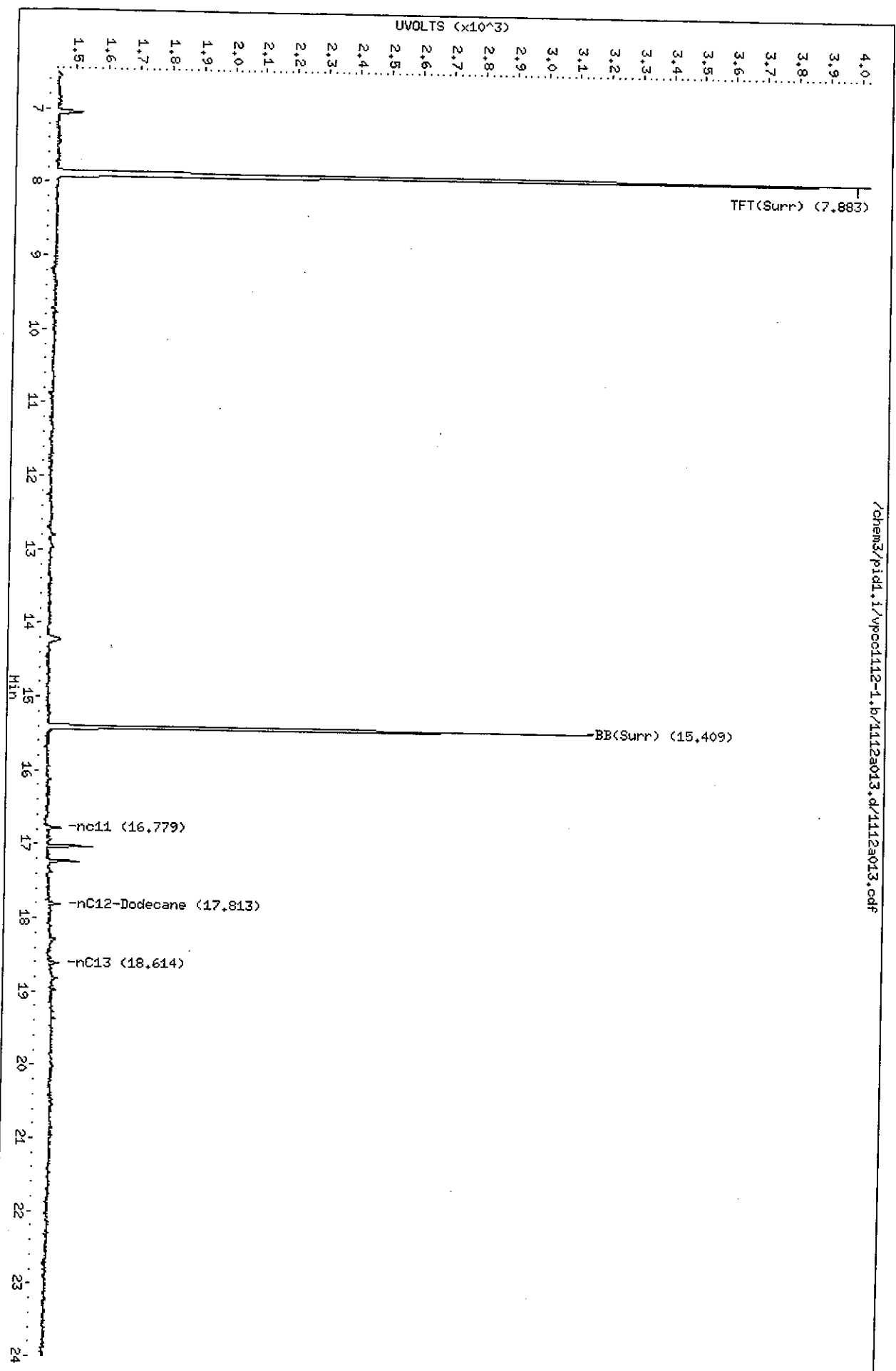
/chem3/pid1.i/vpec01112-2.b/1112s012.d/1112s012.cdf

Data File: /chem3/pid1.i/vpoc1112-1.b/1112a013.d
Date: 12-NOV-2014 15:36
Client ID:
Sample Info: TM59G

Column phase: RTX 502-2 FID

/chem3/pid1.i/vpoc1112-1.b/1112a013.d/1112a013.cdf

Instrument: pid1.i
Operator: PC
Column diameter: 0.18



TM59G 00100

Data File: /chem3/pid1.i/vpoc1112-2.b/1112a013.d

Date: 12-NDV-2011 15:36

Client ID:

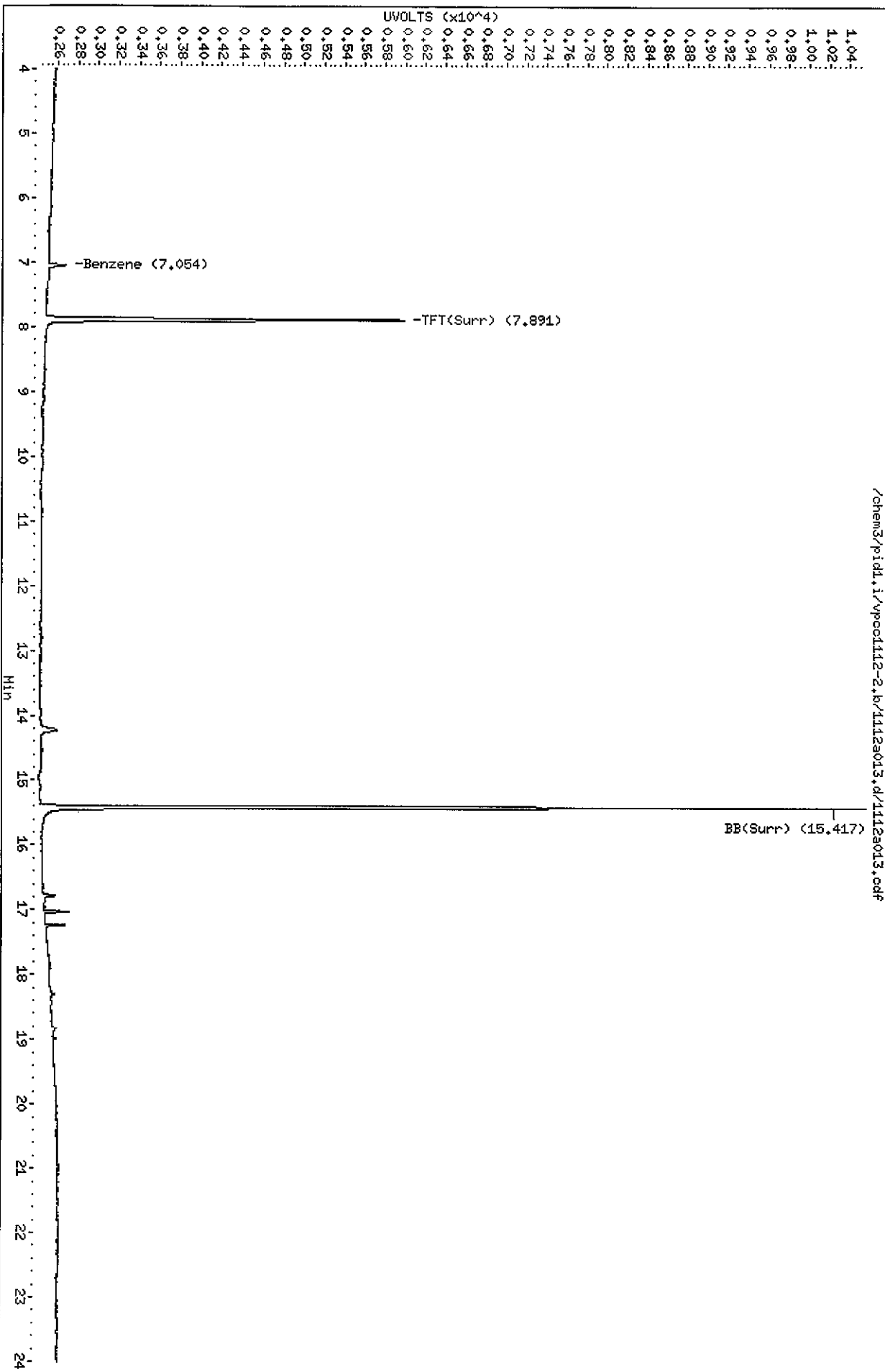
Sample Info: TM59G

Column phase: RTX 502-2 PID

Instrument: pid1.i

Operator: PC

Column diameter: 0.18



Data File: /chem3/pid2.i/111114-1.b/1114a004.d

Date: 14-NOV-2011 08:47

Client ID:

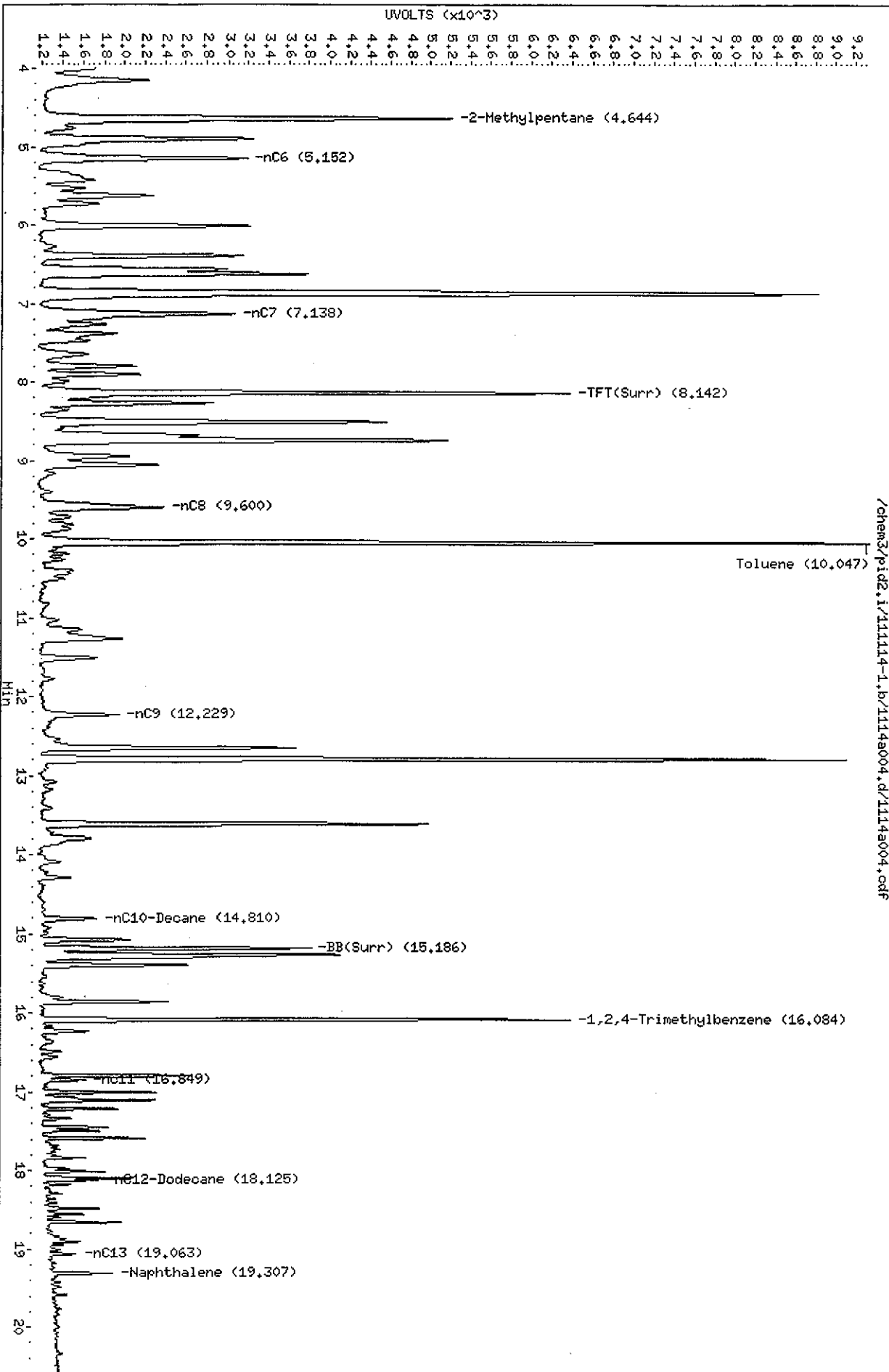
Sample Info: LCS1114

Column phase: RTX 502-2 FID

Instrument: pid2.i

Operator: MH

Column diameter: 0.18



TW50 : 00104

Data File: /chem3/pid2.i/111114-2.b/1114a004.d
Date: 14-NOV-2011 08:47

Client ID:

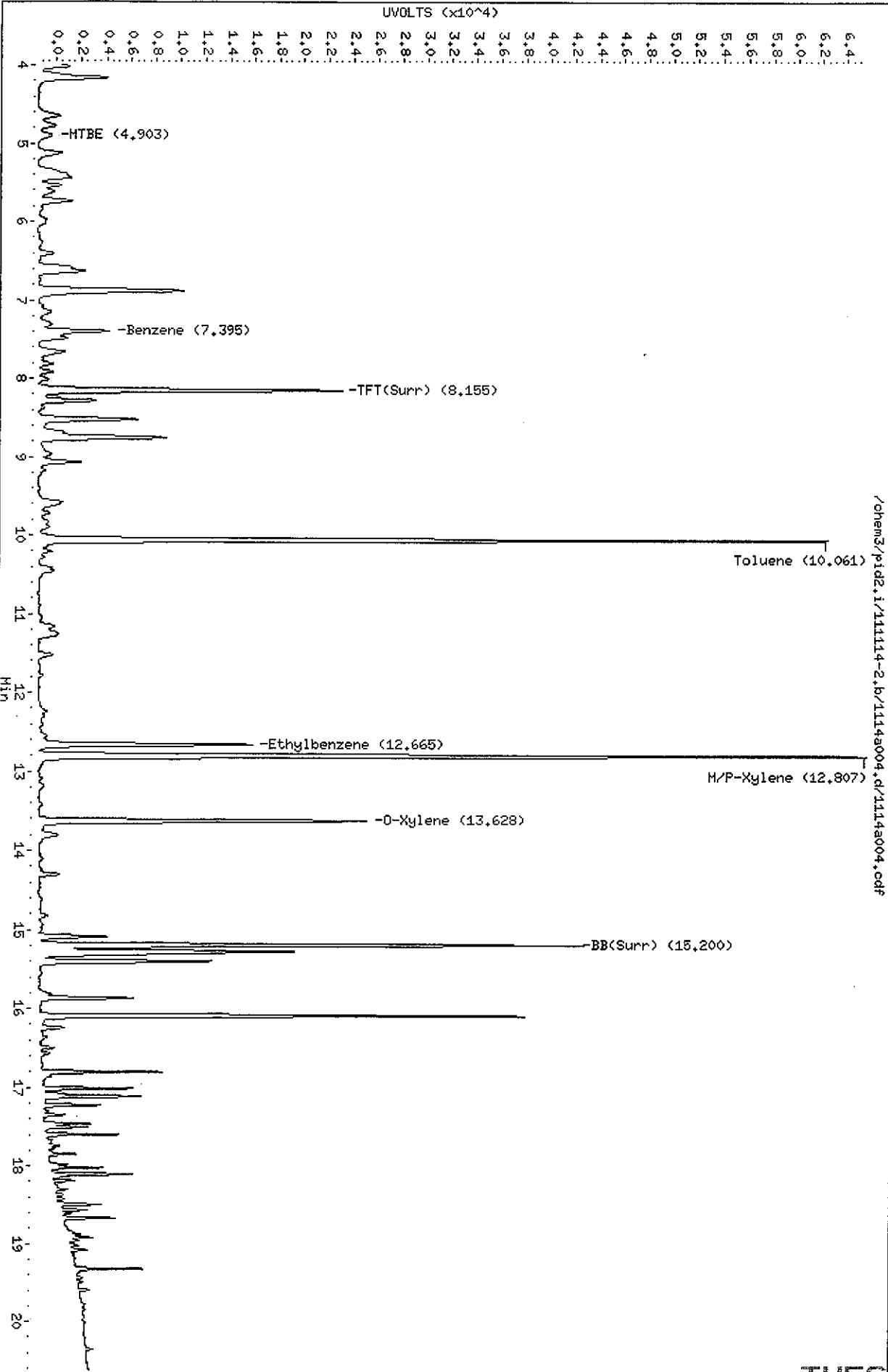
Sample Info: LCS1114

Column phase: RTX 502-2 PID

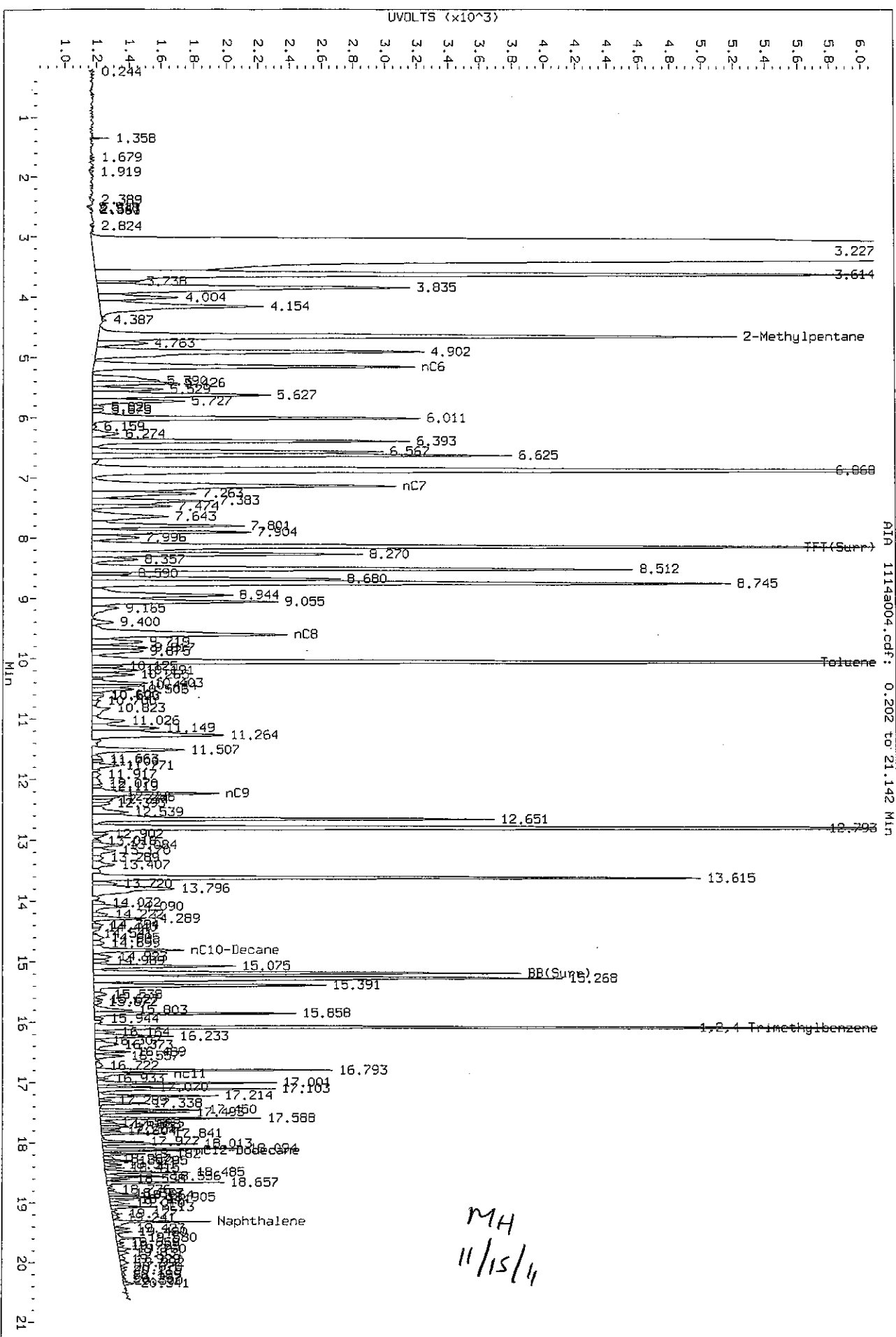
Instrument: pid2.i

Operator: HH

Column diameter: 0.18

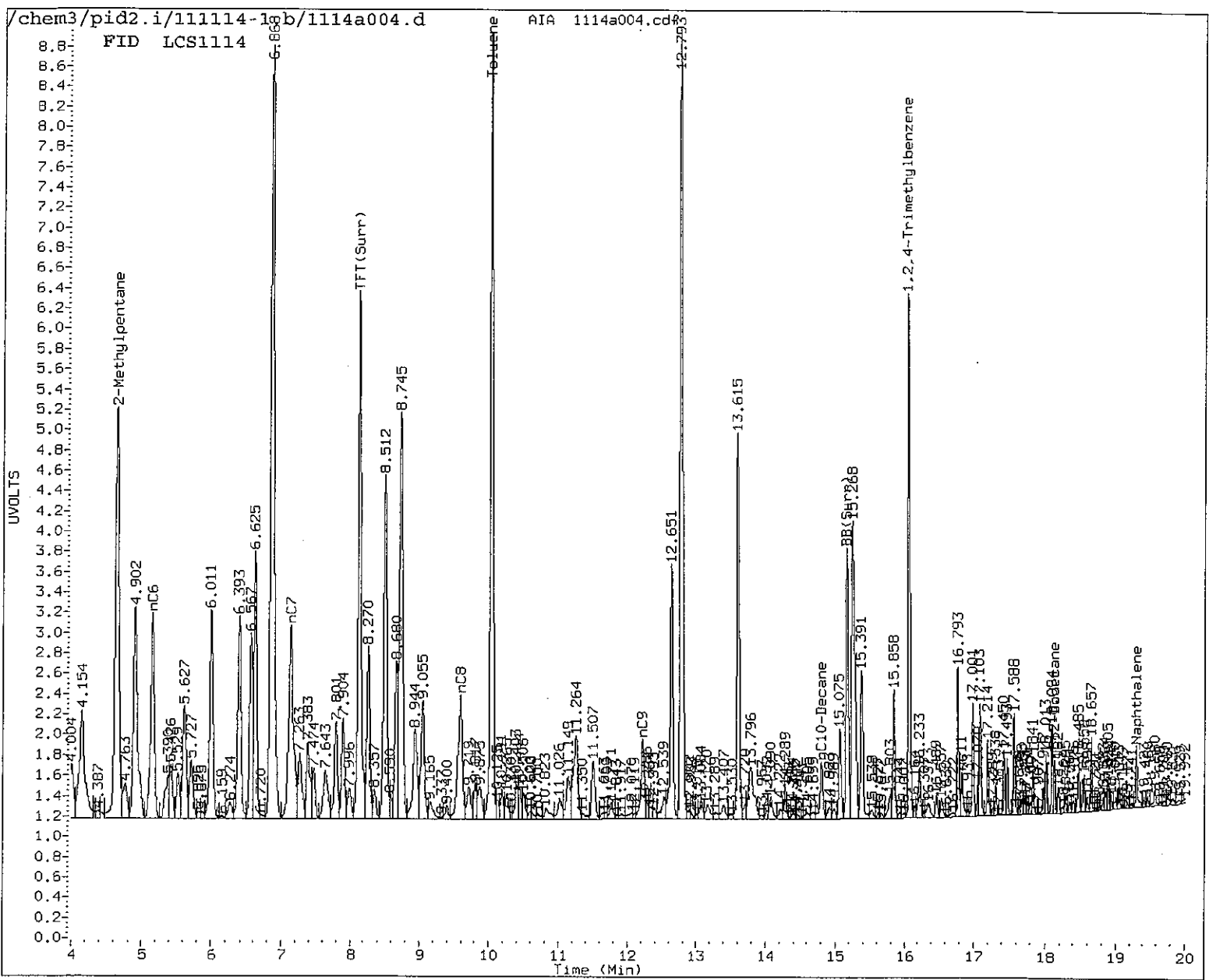


Data File: /chem3/pid2.1/111114-1.b/1114a004.d/1114a004.cdf
 Injection Date: 14-NOV-2011 08:47
 Instrument: pid2.1
 Client Sample ID:



AIA 1114a004.cdf: 0.202 to 21.142 Min

MH
11/15/11



MANUAL INTEGRATION

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: MH Date: 11/15/11

Data File: /chem3/pid2.i/111114-1.b/1114a005.d

Date: 14-NOV-2011 09:12

Client ID:

Sample Info: LCS01114

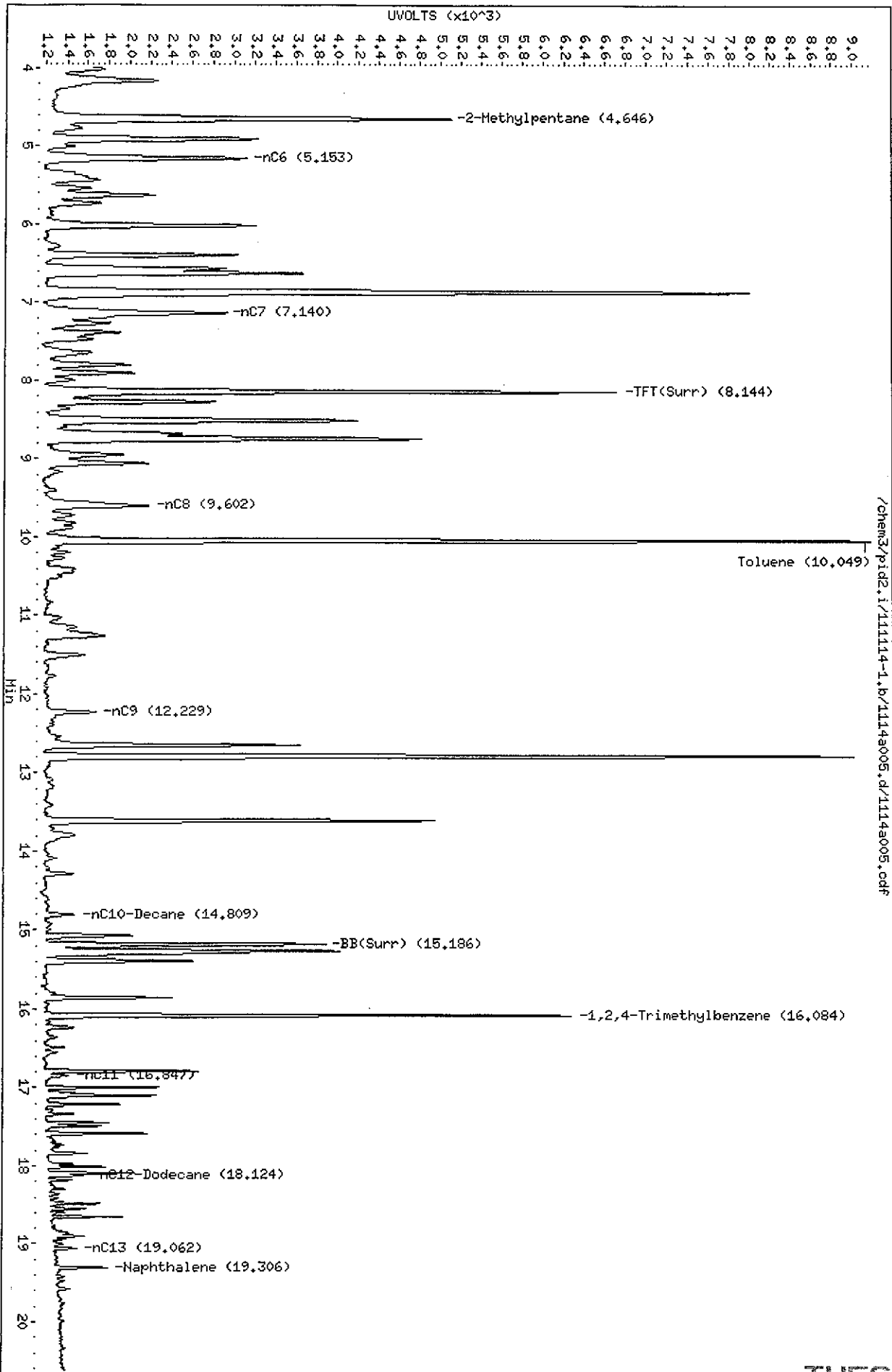
Column phase: RTX 502-2 FID

Instrument: pid2.i

Operator: NH

Column diameter: 0.18

Page 1

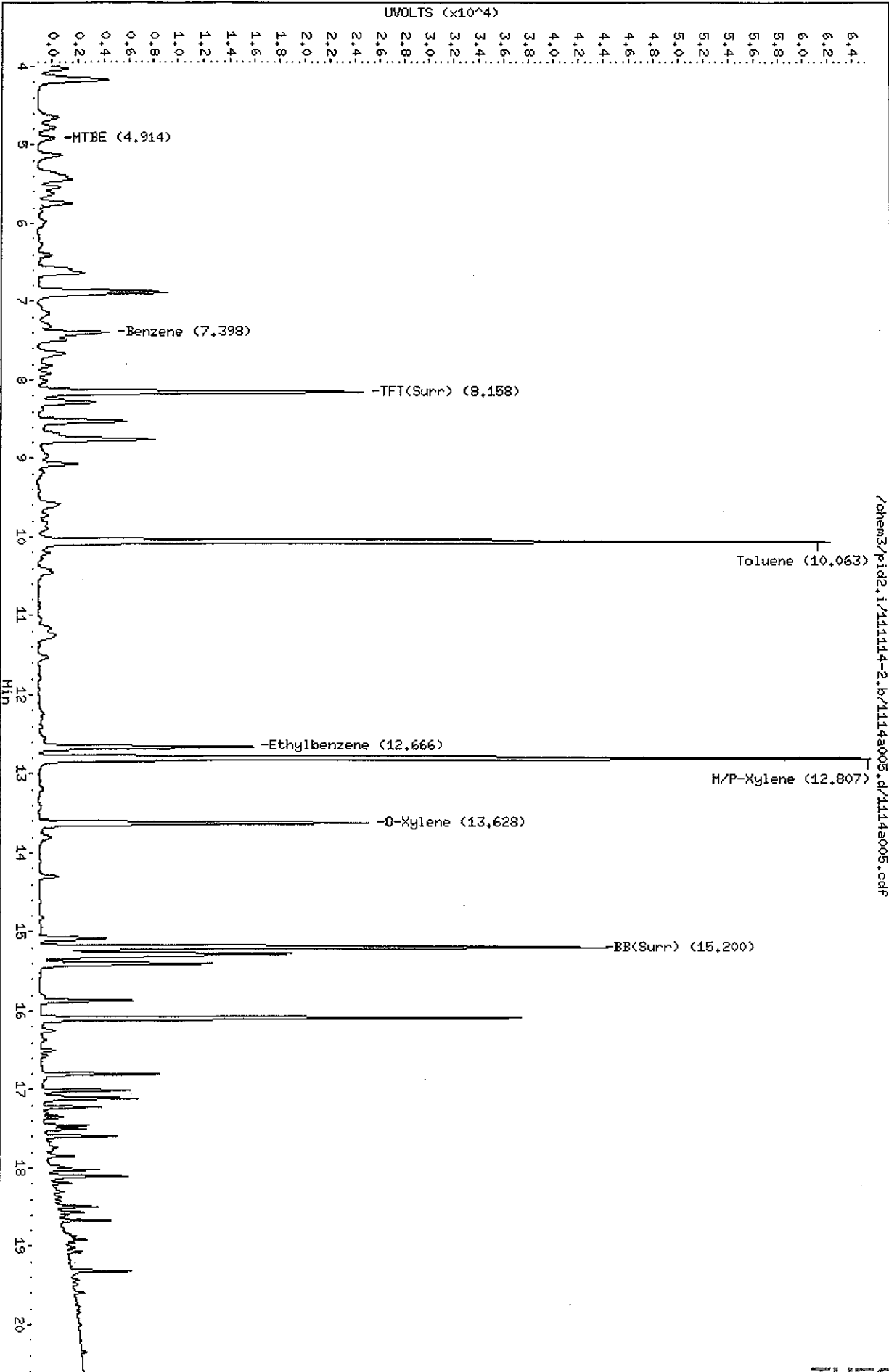


TW56 : 00100

Data File: /chem3/pid2.i/111114-2.b/1114a005.d
Date: 14-NOV-2011 09:12
Client ID:
Sample Info: LCSD1114

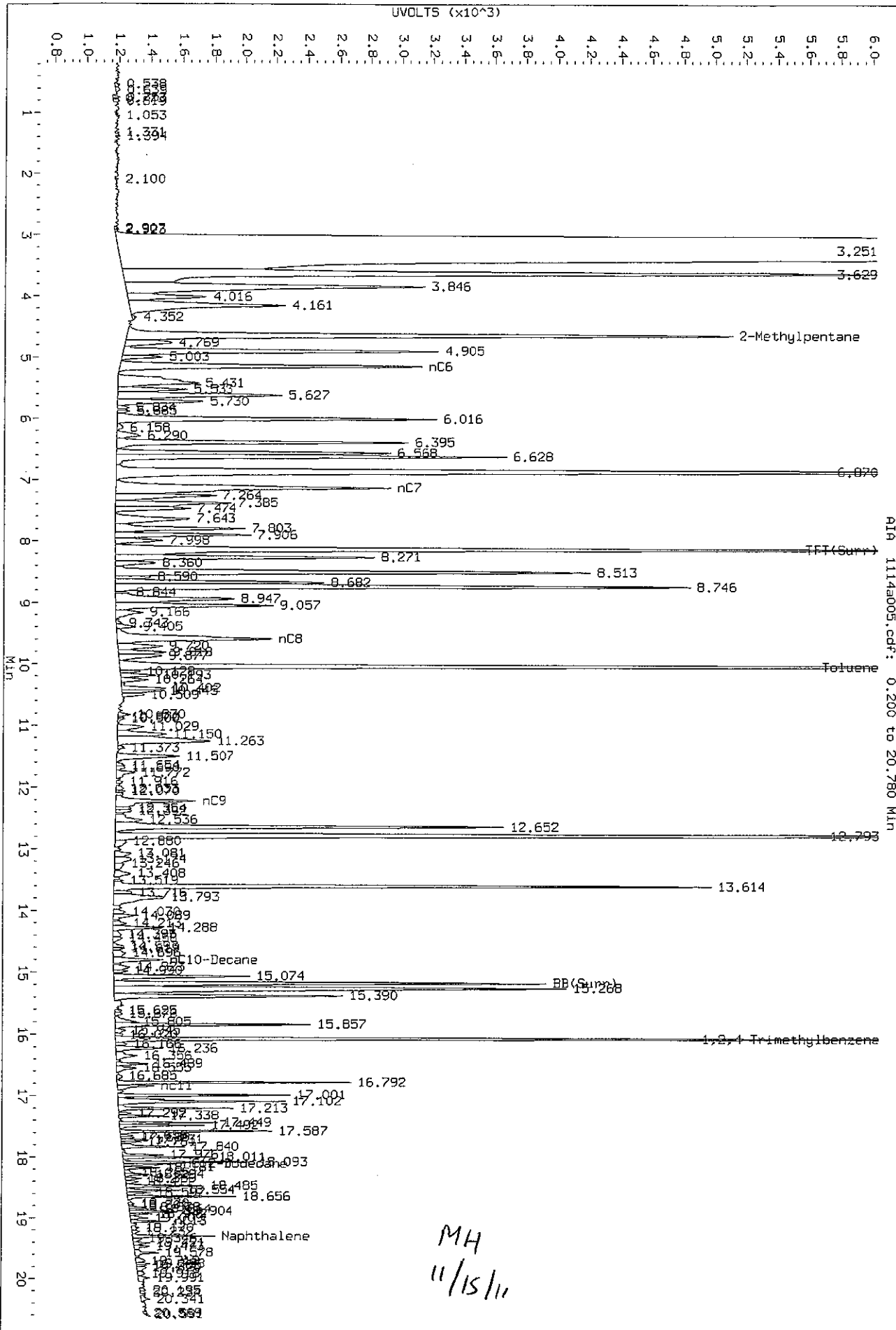
Column phase: RTX 502-2 PID

Instrument: pid2.i
Operator: HH
Column diameter: 0.18

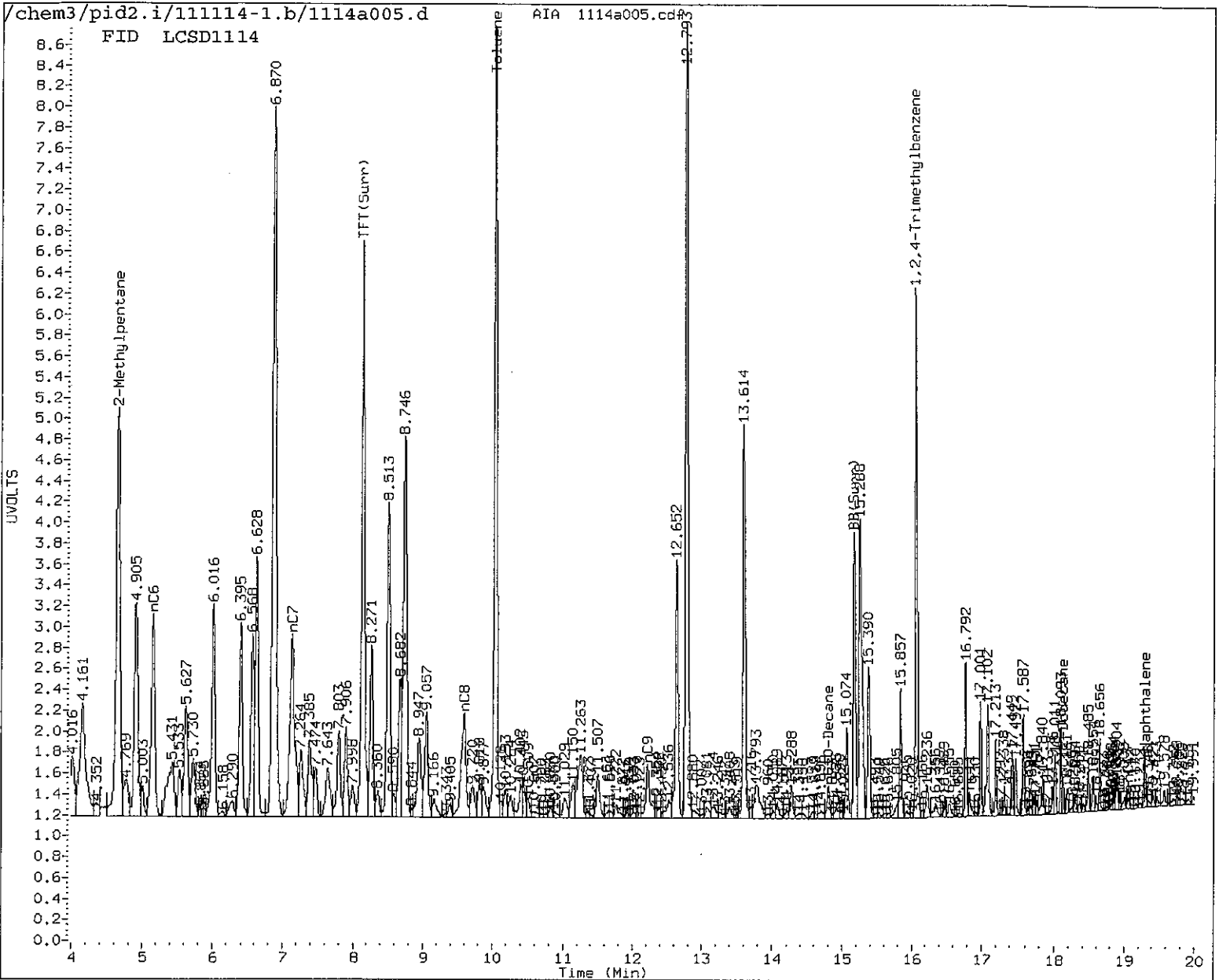


TW50 : 00100

Data File: /chem3/pid2_1/111114-1.b/1114a005.d/1114a005.cdf
 Injection Date: 14-NOV-2011 09:12
 Instrument: pid2.1
 Client Sample ID:



AIR 1114a005.cdf: 0.200 to 20.780 MIN



MANUAL INTEGRATION

- Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: MH Date: 11/15/11

Data File: /chem3/pid2.i/111114-1.b/1114a006.d

Date: 14-NOV-2011 09:39

Client ID:

Sample Info: HB1114

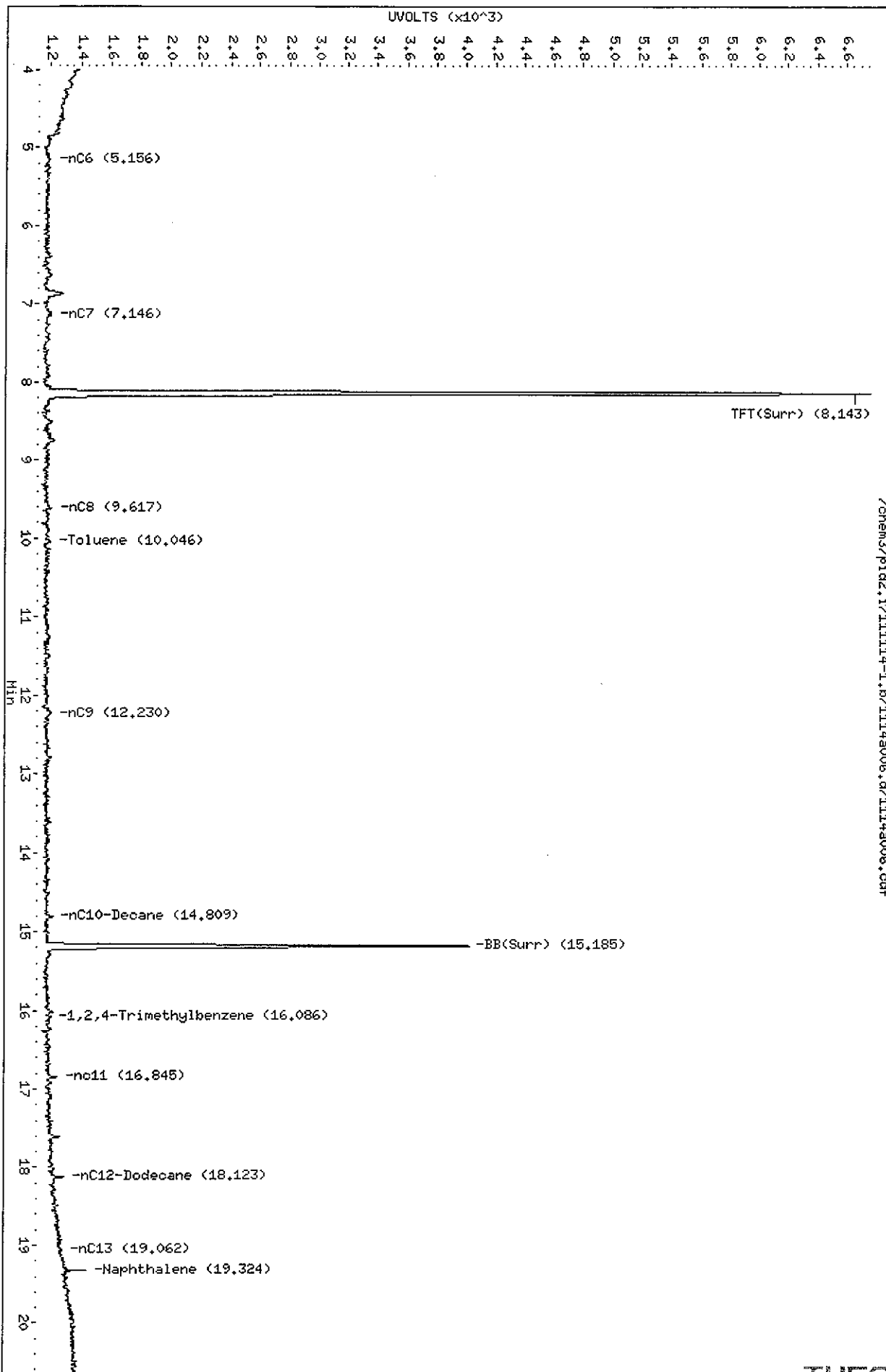
Column phases: RTX 502-2 FID

Instrument: pid2.i

Operator: NH

Column diameter: 0.18

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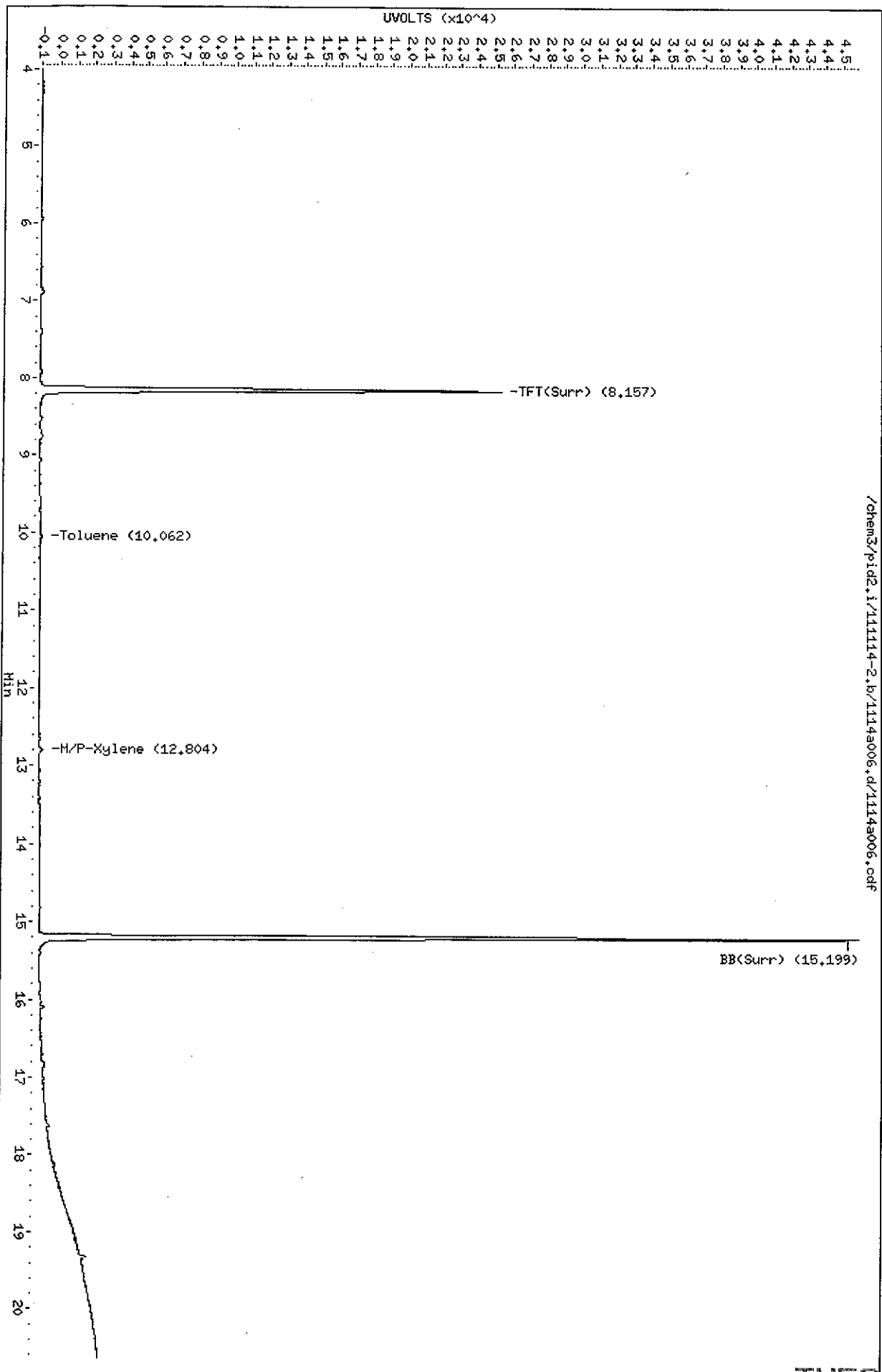
/chem3/pid2.i/111114-1.b/1114a006.d/1114a006.cdf

TW56 : 00192

Data File: /chem3/pid2.i/111114-2.b/1114a006.d
Date: 14-NOV-2011 09:39
Client ID:
Sample Info: MB1114

Column phase: RTX 502-2 PID

Instrument: pid2.i
Operator: HH
Column diameter: 0.18



Data File: /chem3/pid2.i/111114-1.b/1114a007.d

Date: 14-NOV-2011 10:23

Client ID: KJ-B46-15

Sample Info: TMS9H

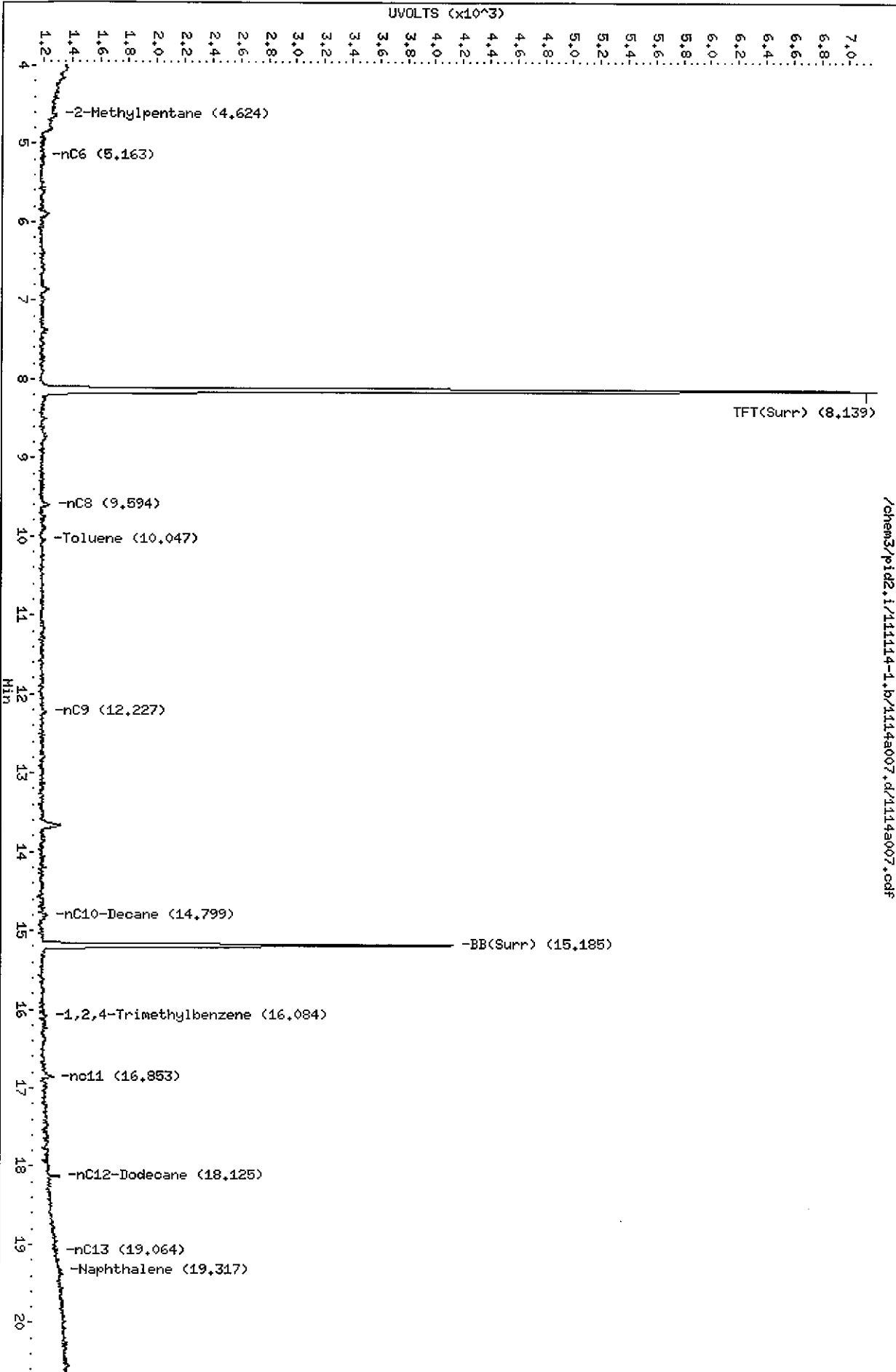
Column phase: RTX 502-2 FID

Instrument: pid2.i

Operator: MH

Column diameter: 0.18

Page 1



TW56: 00194

Data File: /chem3/pid2.i/111114-2.b/1114a007.d

Date: 14-NOV-2011 10:23

Client ID: KJ-B46-15

Sample Info: TMS9H

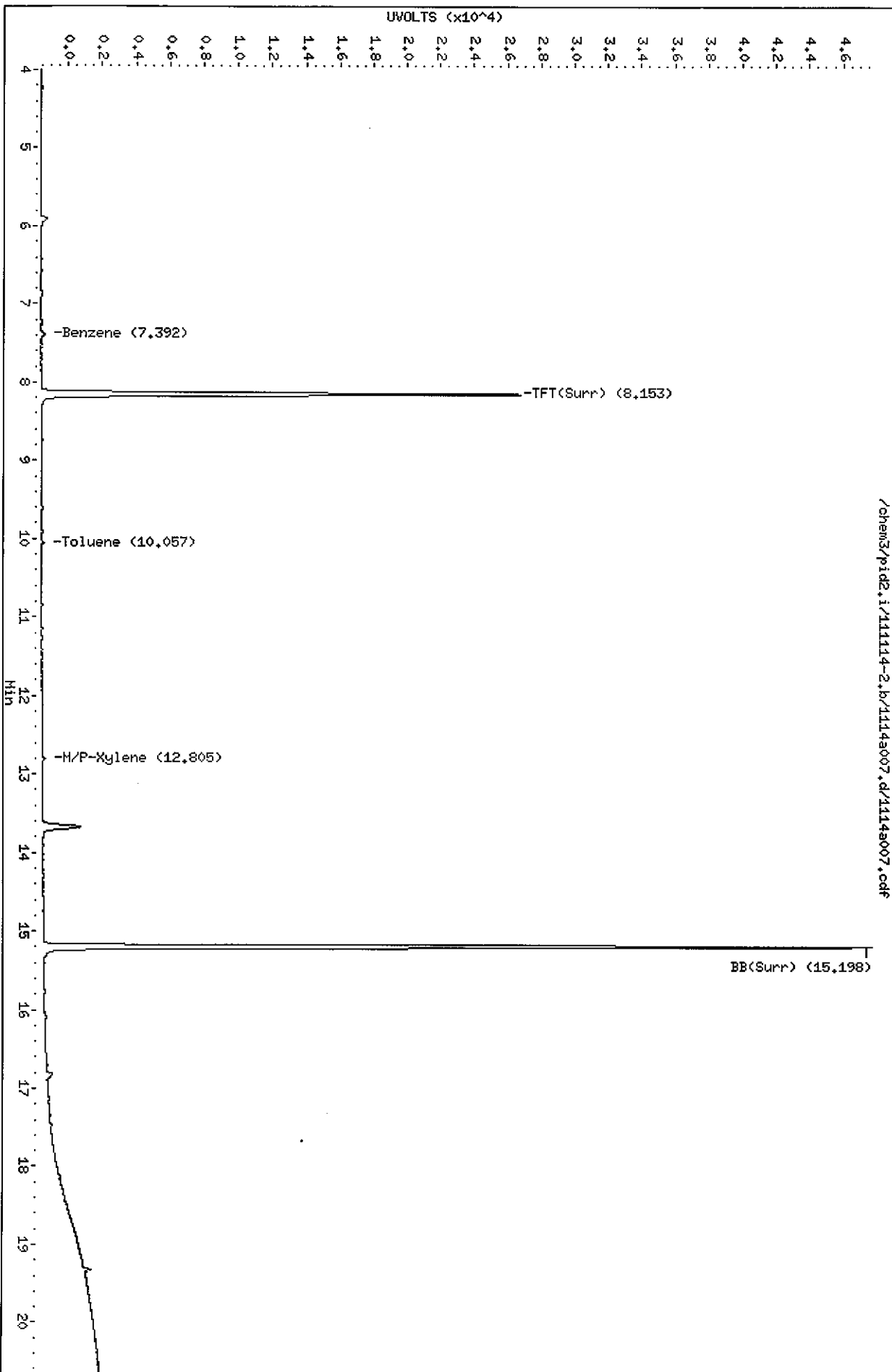
Column phase: RTX 502-2 PID

Instrument: pid2.i

Operator: MH

Column diameter: 0.18

/chem3/pid2.i/111114-2.b/1114a007.d/1114a007.cdf

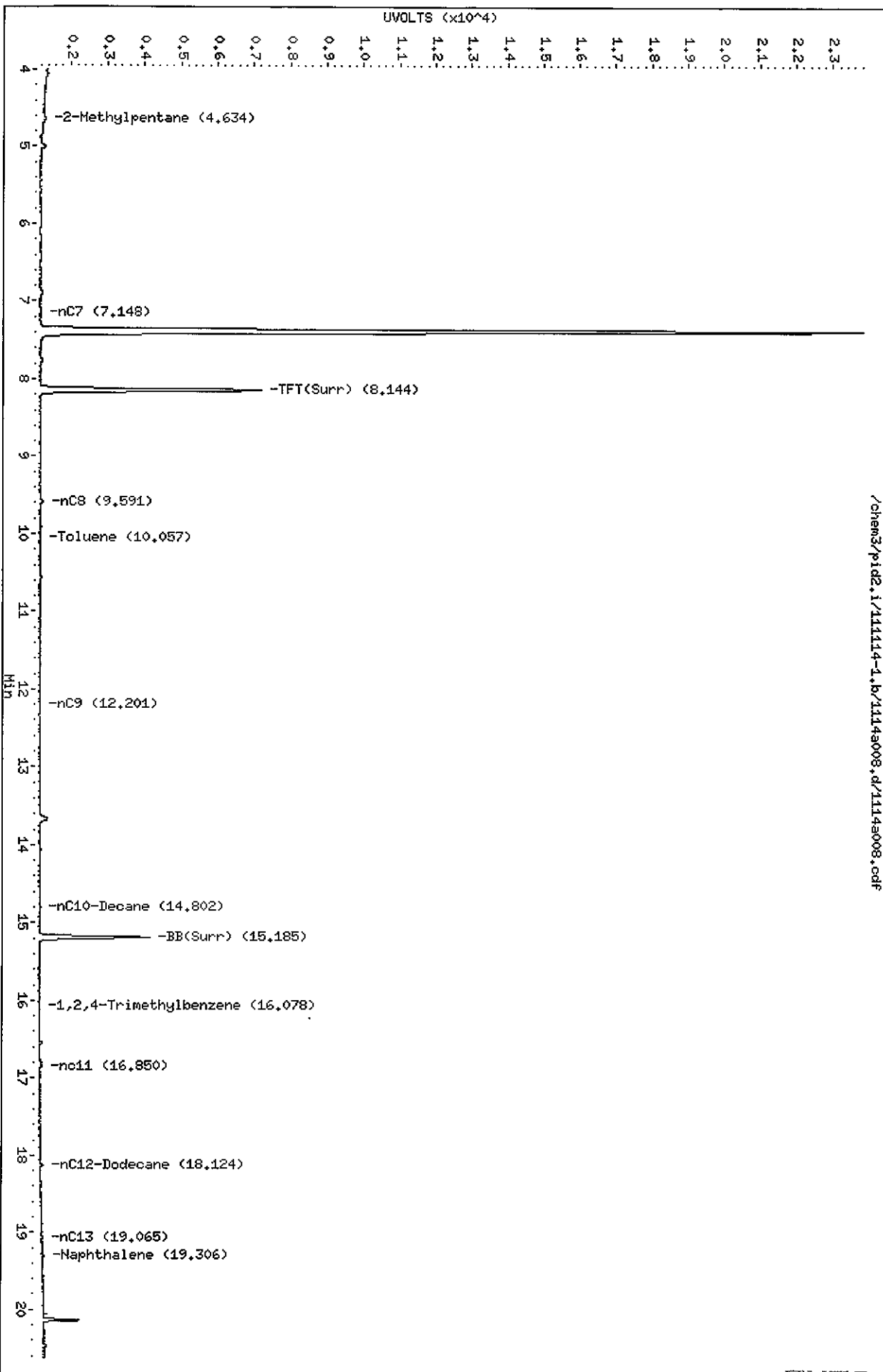


Data File: /chem3/pid2.i/111114-1.b/1114a008.d
Date: 14-NOV-2011 10:49
Client ID: KJ-B47-13
Sample Info: TW591

Column phase: RTX 502-2 FID

/chem3/pid2.i/111114-1.b/1114a008.d/1114a008.cdf

Instrument: pid2.i
Operator: HH
Column diameter: 0.18



Data File: /chem3/pid2.i/111114-2.b/11144008.d

Date: 14-NOV-2011 10:49

Client ID: KJ-B47-13

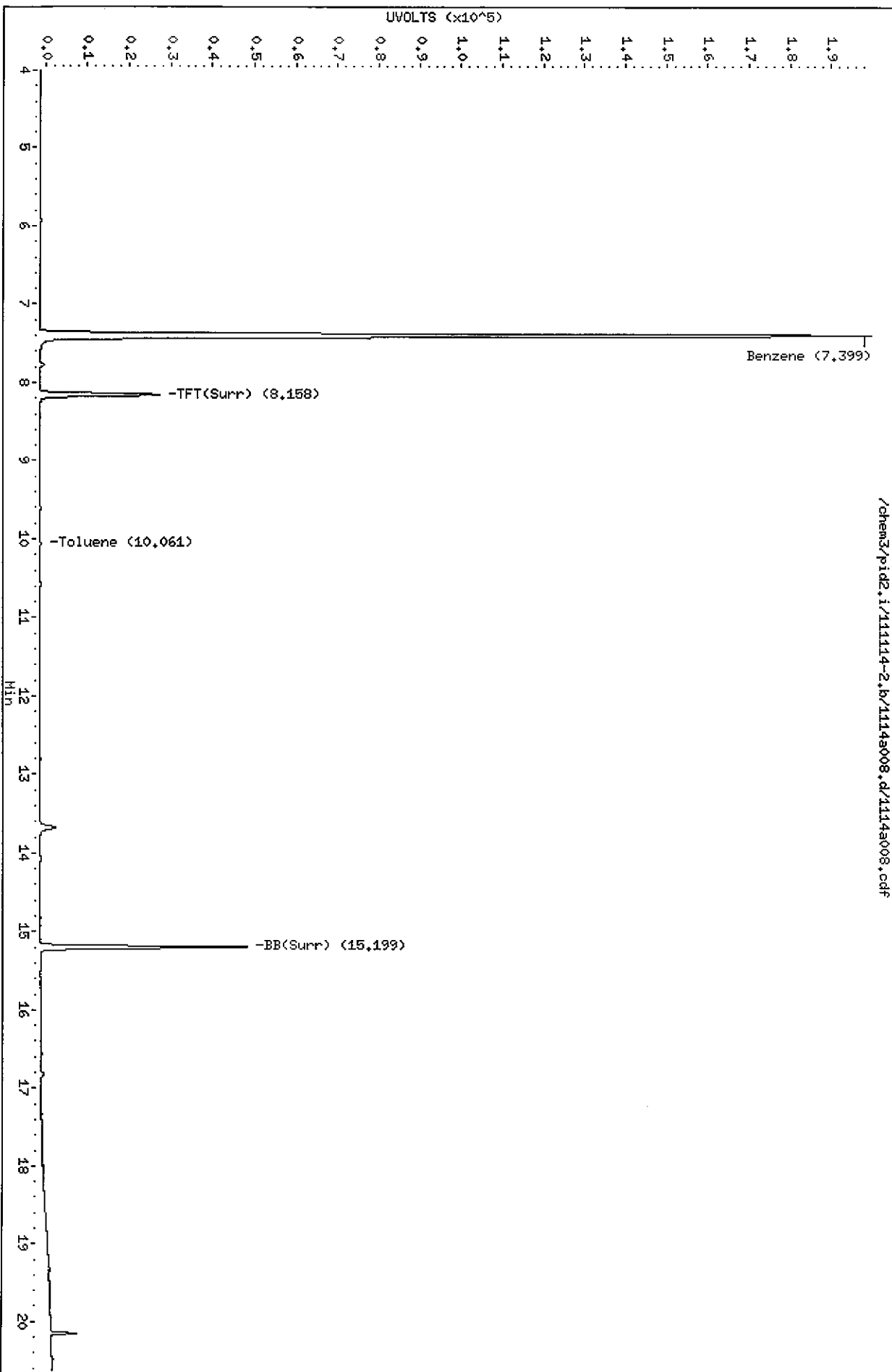
Sample Info: TMS91

Column phase: RTX 502-2 PID

Instrument: pid2.i

Operator: HH

Column diameter: 0.18



Data File: /chem3/pid2.i/111114-1.b/1114a009.d

Date: 14-NOV-2011 11:15

Client ID: KJ-B48-3

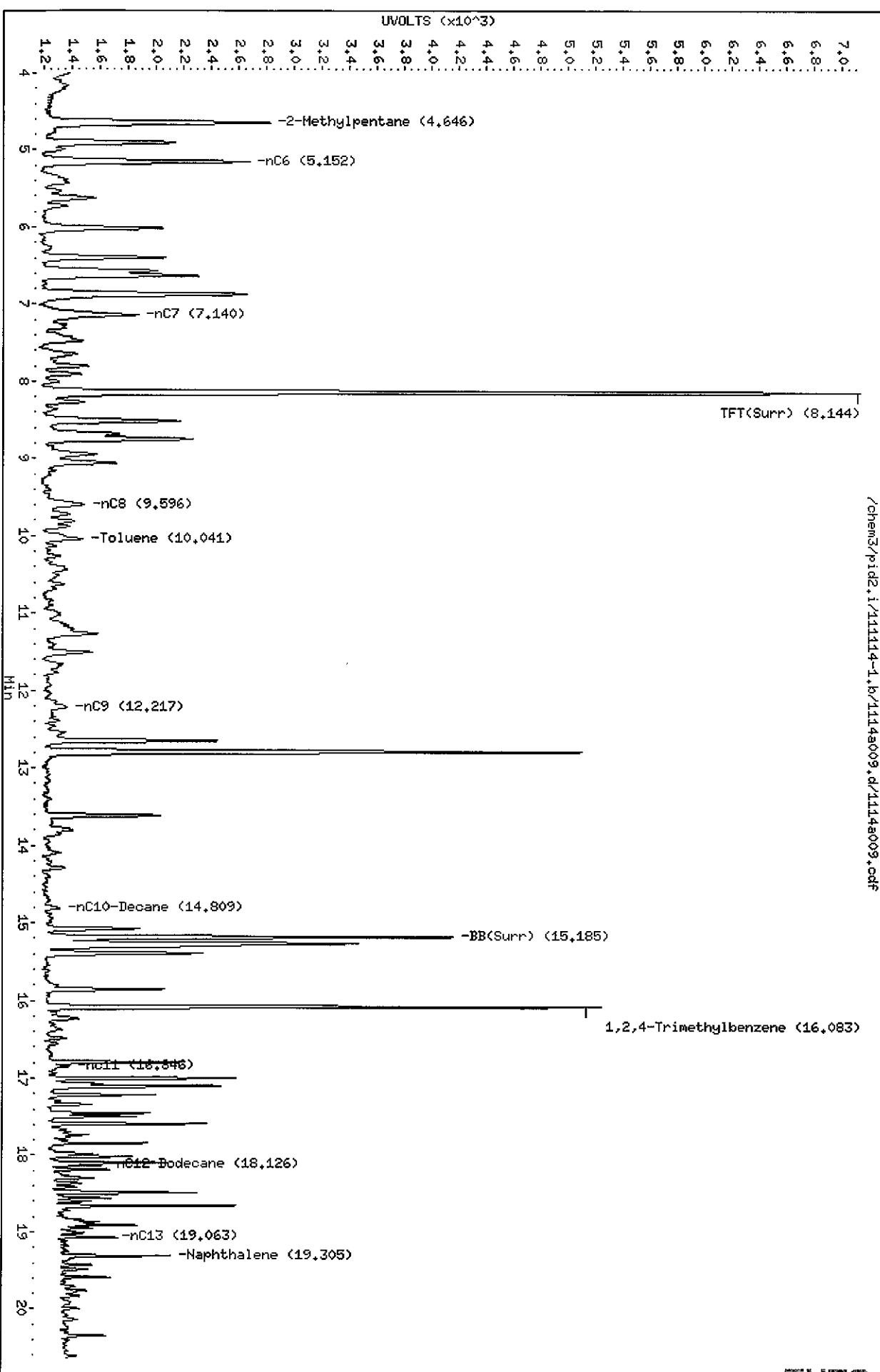
Sample Info: TW59J

Column Phase: RTX 502-2 FID

Instrument: pid2.i

Operator: NH

Column diameter: 0.18

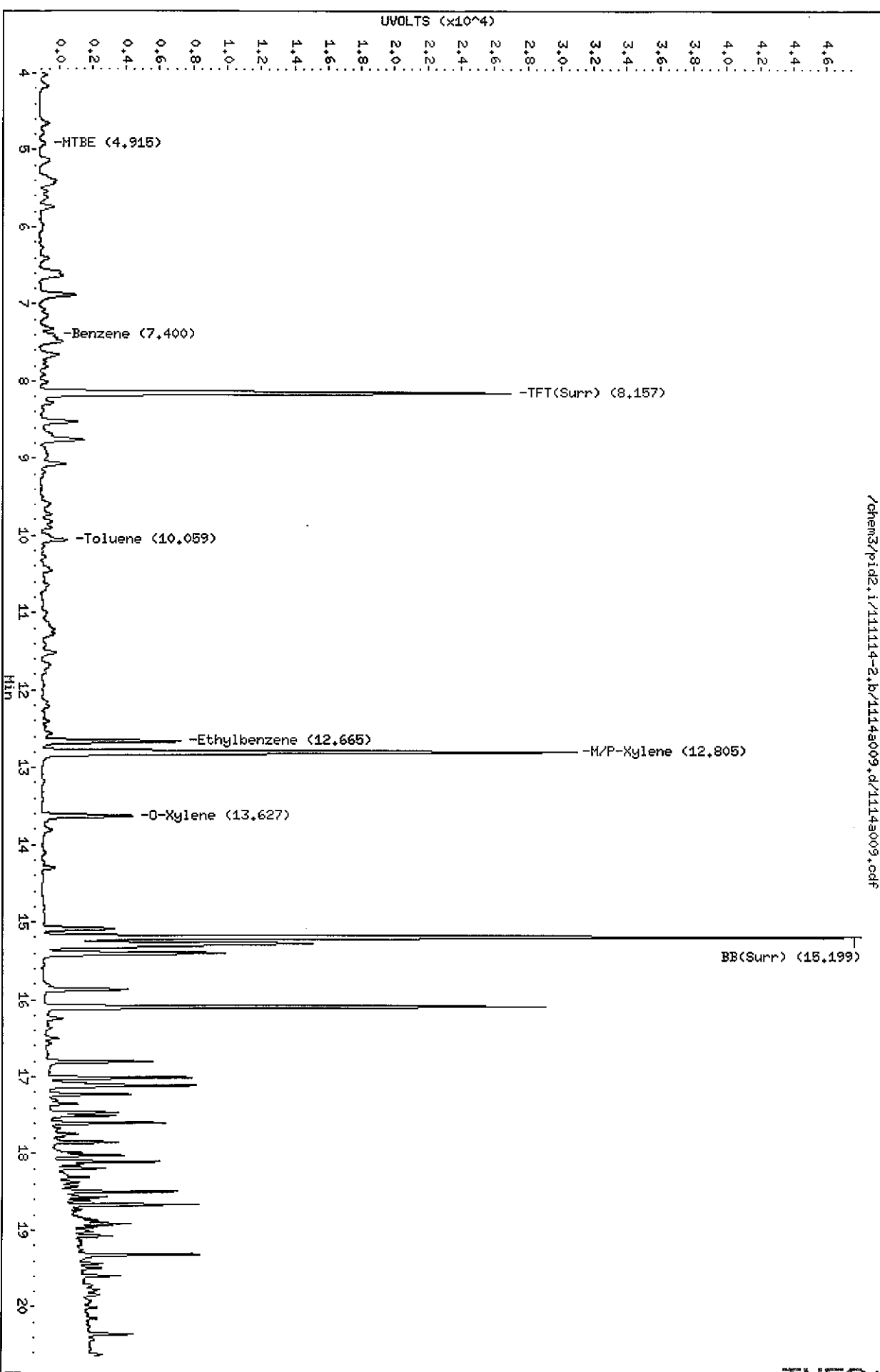


/chem3/pid2.i/111114-1.b/1114a009.d/1114a009.cdf

Data File: /chem3/pid2.i/111114-2.b/1114s009.d
Date: 14-NOV-2011 11:15
Client ID: KJ-B48-3
Sample Info: TW59J

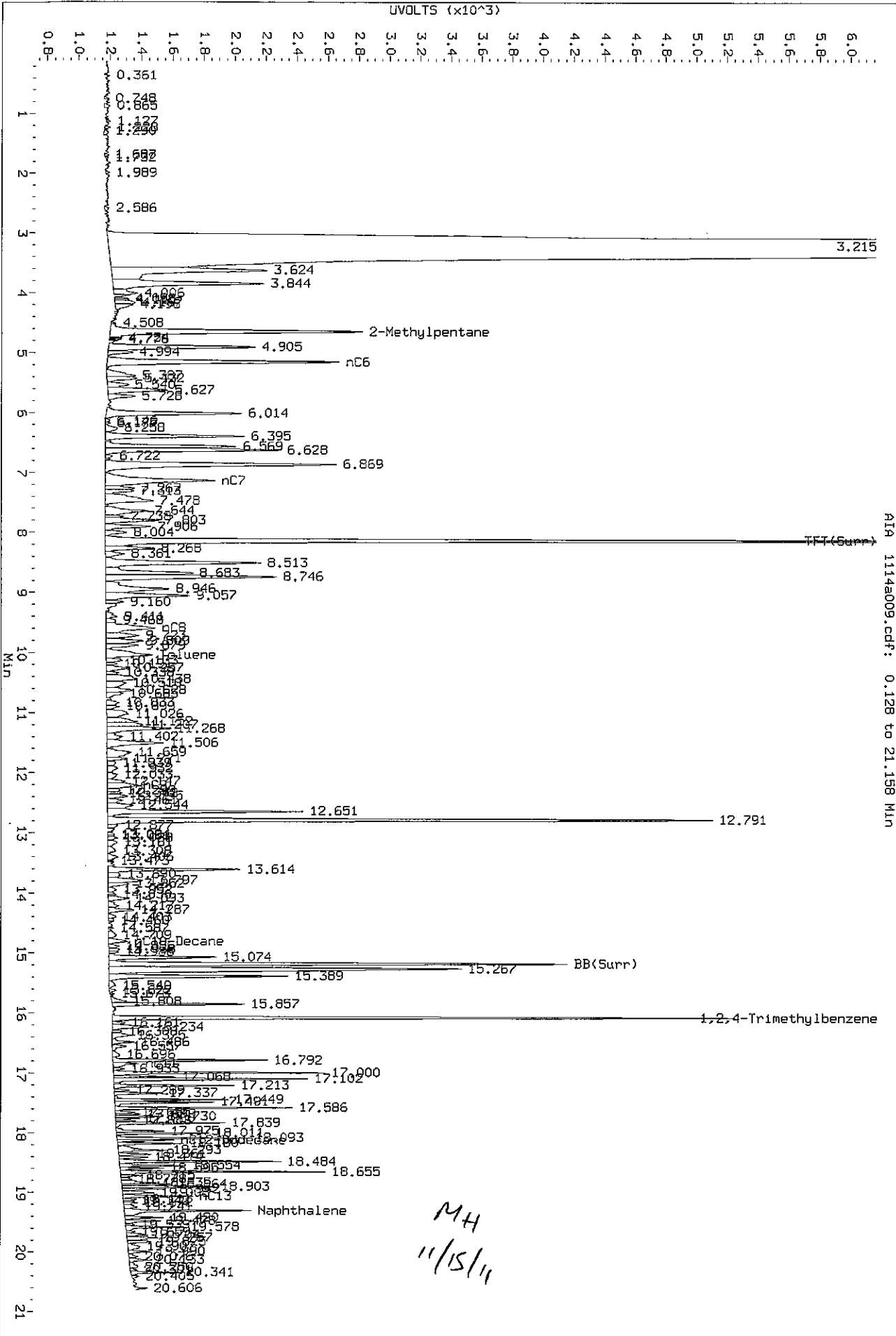
Column phase: RTX 502-2 PID

Instrument: pid2.i
Operator: MH
Column diameter: 0.18



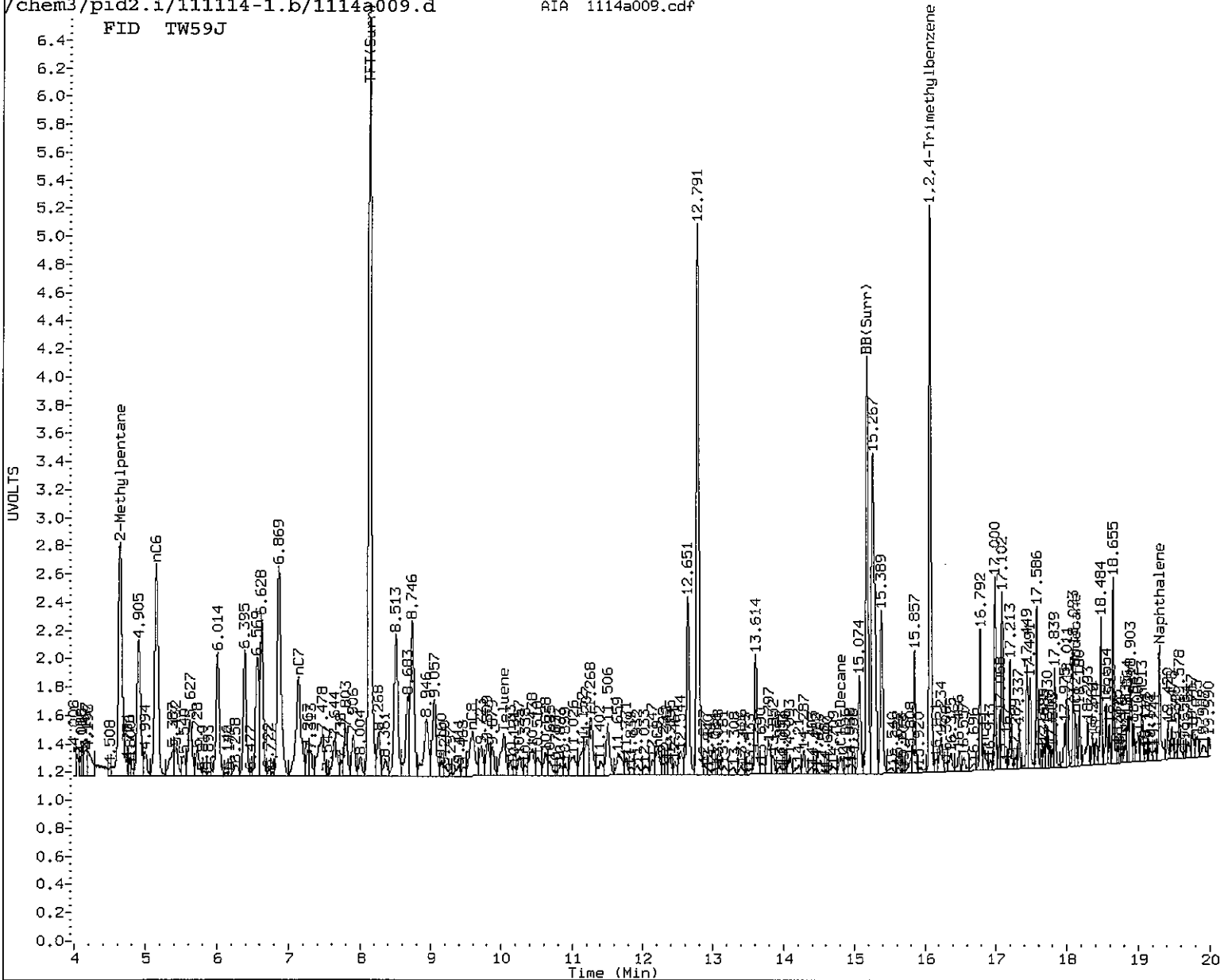
/chem3/pid2.i/111114-2.b/1114s009.d/1114s009.pdf

Data File: /chem3/pid2.1/111114-1.b/1114a009.d/1114a009.cdf
 Injection Date: 14-NOV-2011 11:15
 Instrument: pid2.1
 Client Sample ID: KJ-848-3



AIA 1114a009.cdf: 0.128 to 21.158 Min

FID TW59J



MANUAL INTEGRATION

- Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

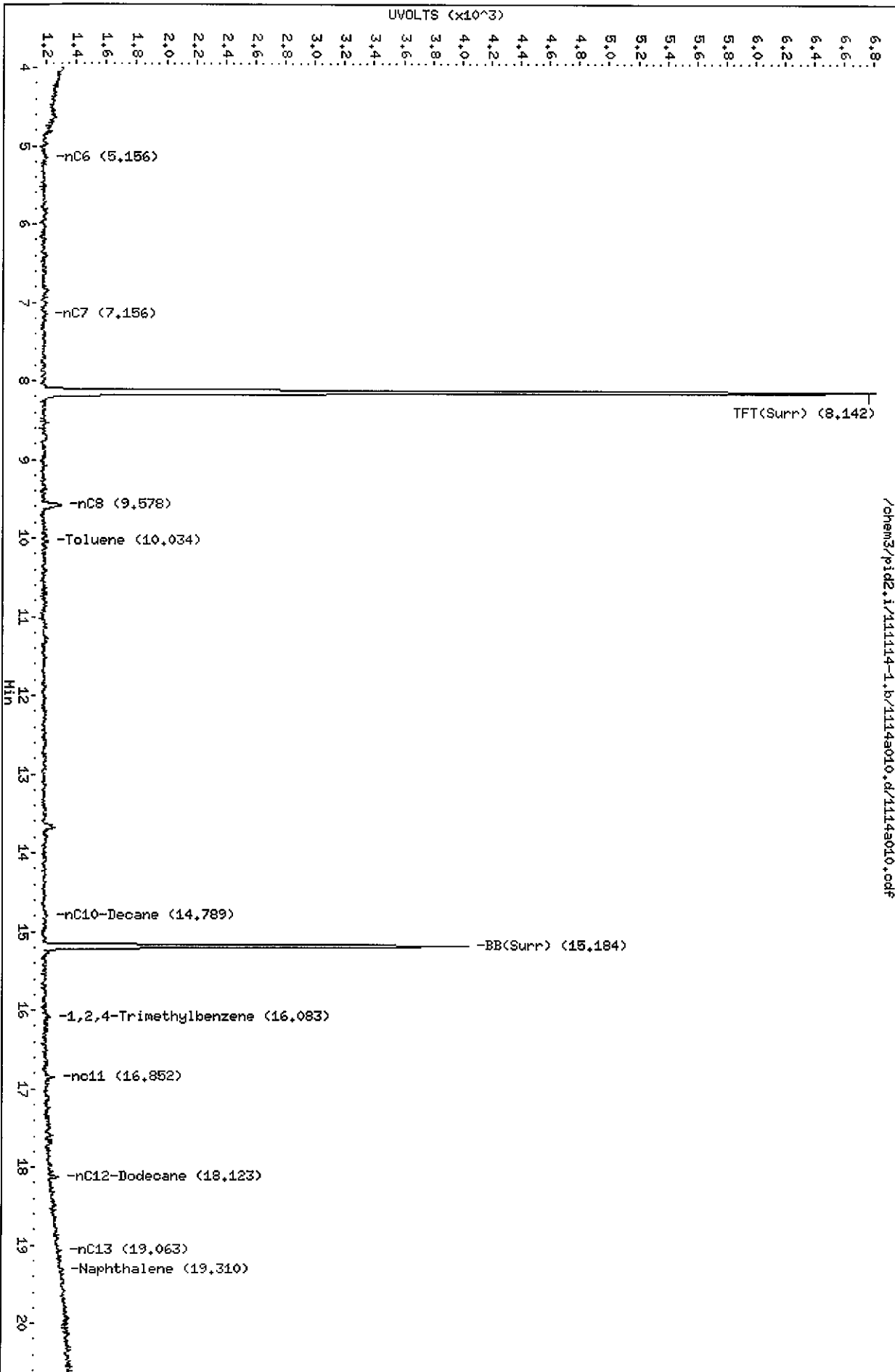
Analyst: MH Date: 11/15/11

Data File: /chem3/pid2.i/111114-1.b/1114a010.d
Date: 14-NOV-2011 11:41
Client ID: KJ-849-13
Sample Info: TMS9K

Column phase: RTX 502-2 FID

/chem3/pid2.i/111114-1.b/1114a010.d/1114a010.cdf

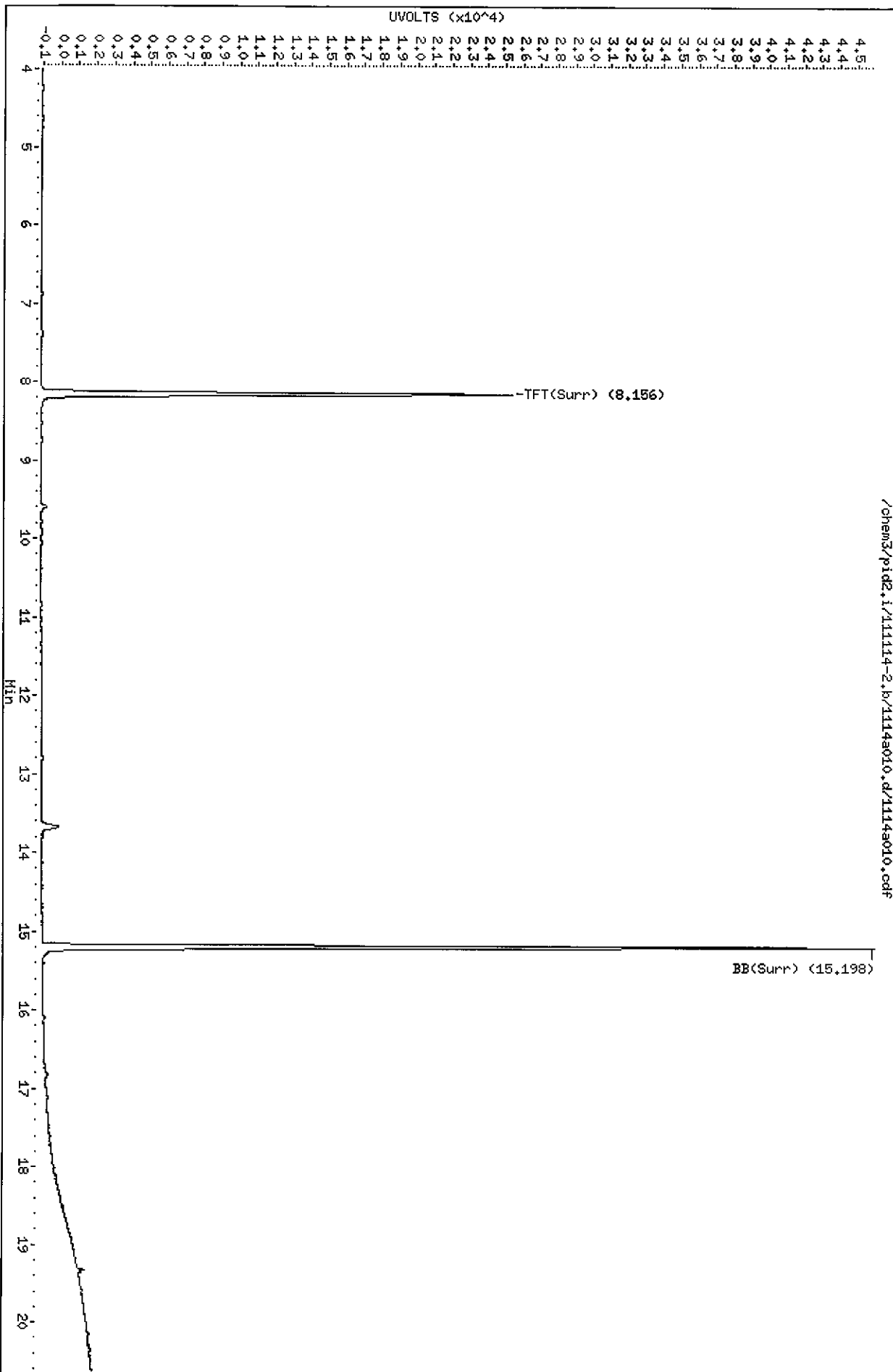
Instrument: pid2.i
Operator: HH
Column diameter: 0.18



Data File: /chem3/pid2,i/111114-2,b/1114a010.d
Date: 14-NOV-2011 11:41
Client ID: KJ-B49-13
Sample Info: TMS9K

Column phase: RTX 502-2 PID

Instrument: pid2,i
Operator: MH
Column diameter: 0.18

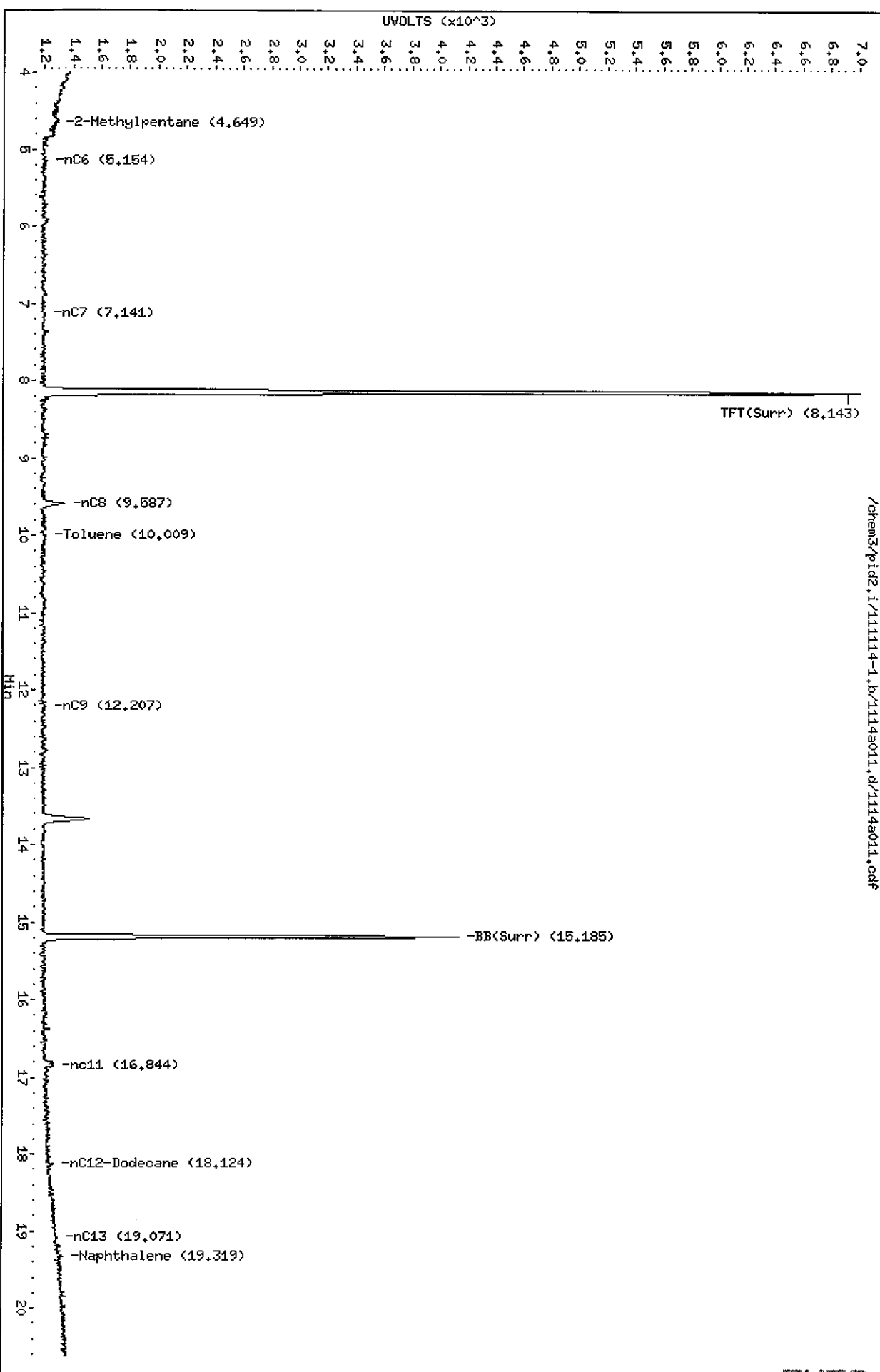


Data File: /chem3/pid2.i/111114-1.b/1114a011.d
Date: 14-NOV-2011 12:07
Client ID: KJ-850-10
Sample Info: TMS9L

Column phase: RTX 502-2 FID

Instrument: pid2.i
Operator: HH
Column diameter: 0.18

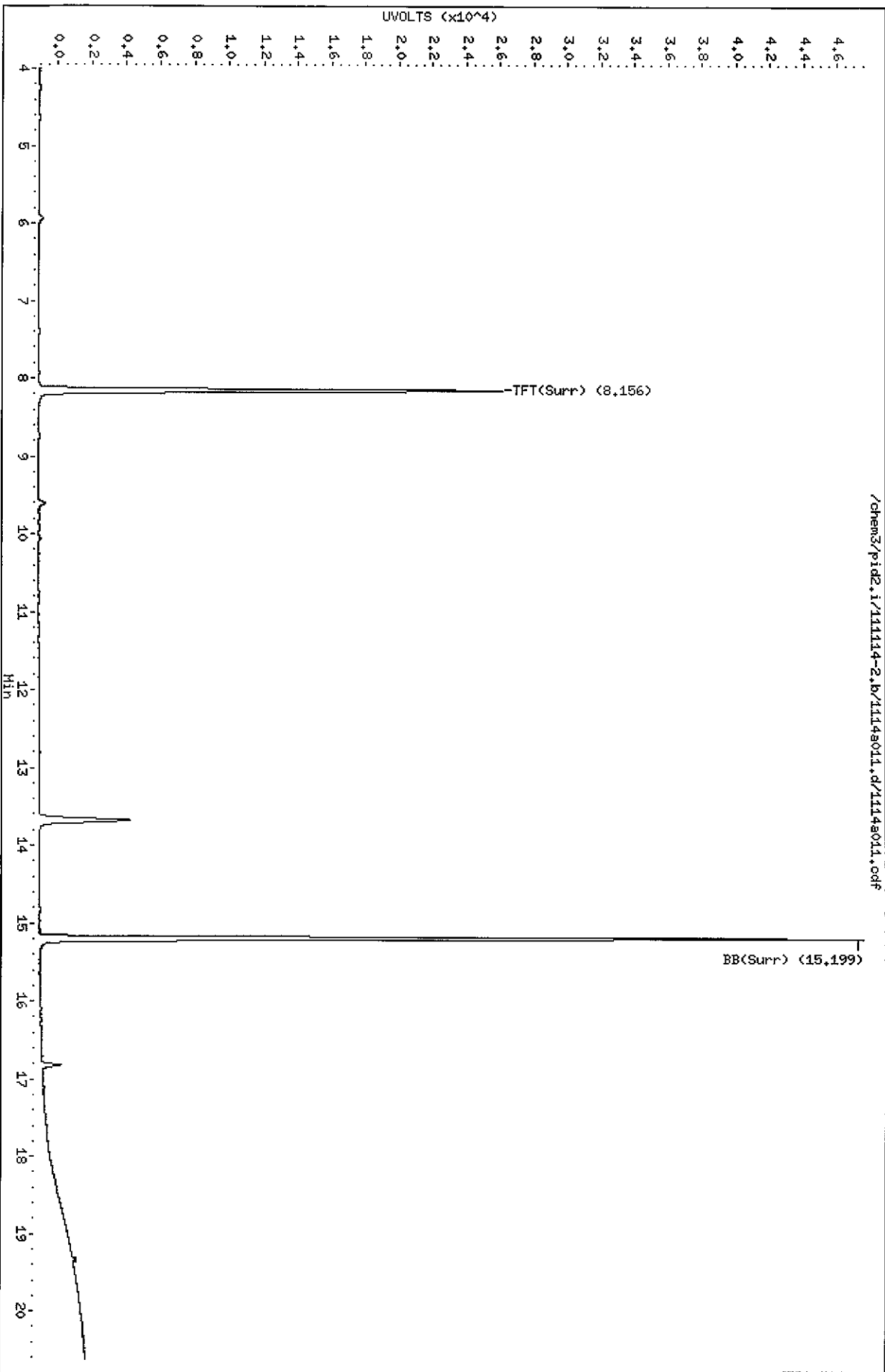
/chem3/pid2.i/111114-1.b/1114a011.d/1114a011.cdf



Data File: /chem3/pid2.i/111114-2.b/1114s011.d
Date: 14-NOV-2011 12:07
Client ID: KJ-B50-10
Sample Info: TMS9L

Column phase: RTX 502-2 PID

Instrument: pid2.i
Operator: NH
Column diameter: 0.18



/chem3/pid2.i/111114-2.b/1114s011.d/1114s011.cdf

Data File: /chem3/pid2.i/111114-1.b/1114a012.d

Date: 14-NOV-2011 12:33

Client ID: KJ-881-7

Sample Info: TMS9H

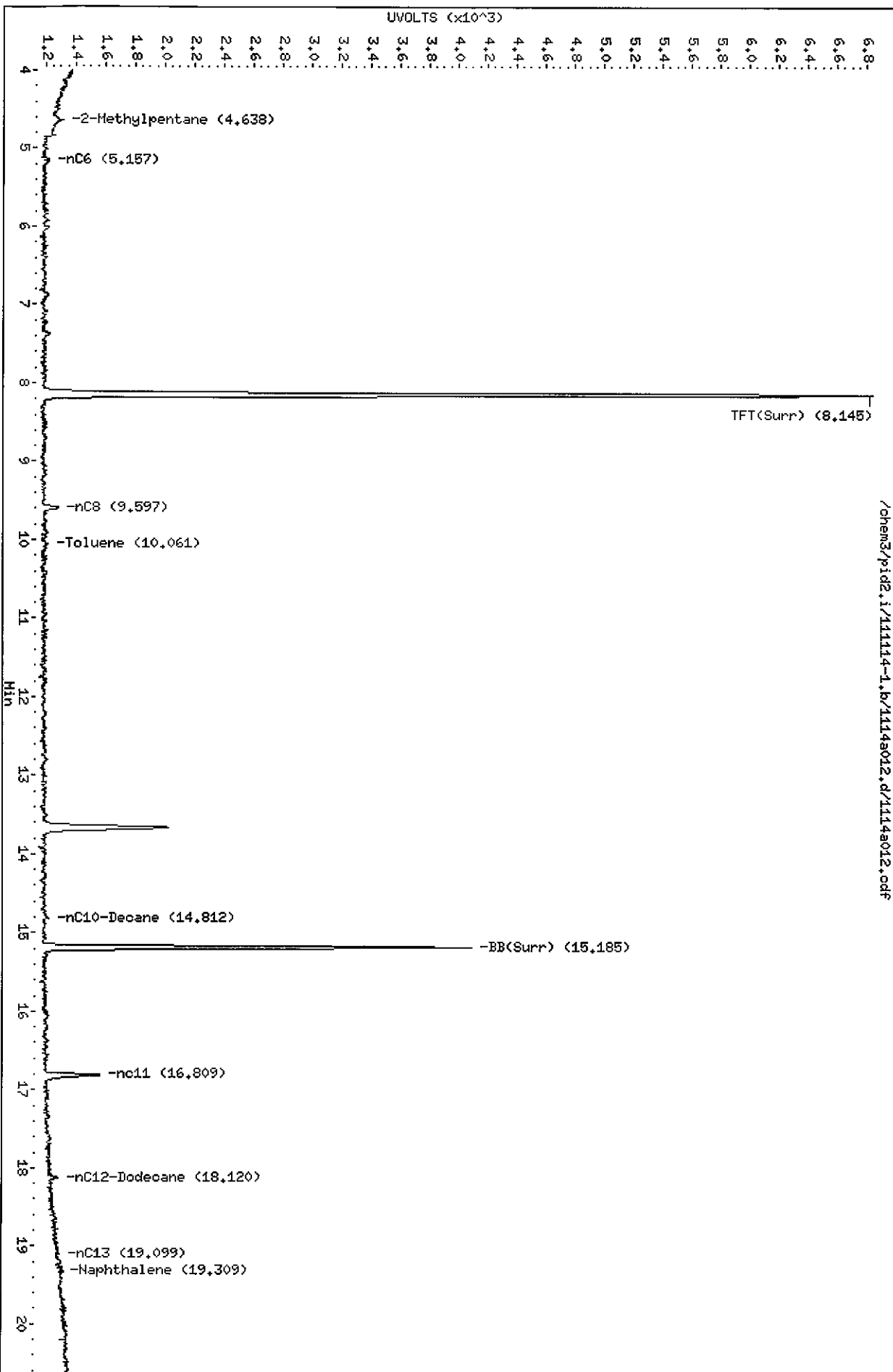
Column phase: RTX 502-2 FID

Instrument: pid2.i

Operator: HH

Column diameter: 0.18

Page 1



/chem3/pid2.i/111114-1.b/1114a012.d/1114a012.pdf

Data File: /chem3/pid2.i/111114-2.b/1114a012.d

Date: 14-NOV-2011 12:33

Client ID: KJ-861-7

Sample Info: TMS9H

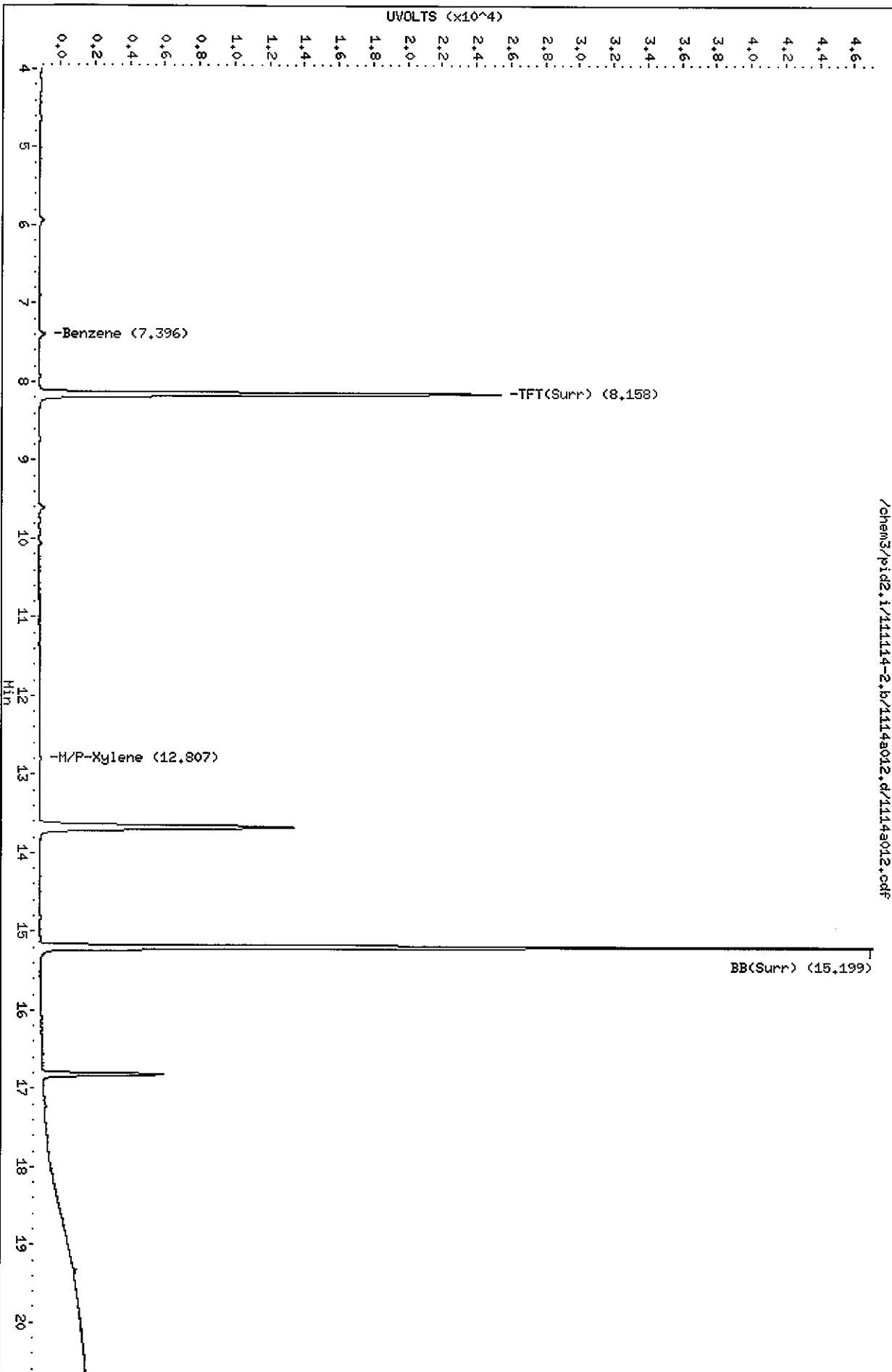
Column phase: RTX 502-2 P11

Instrument: pid2.i

Operator: NH

Column diameter: 0.18

/chem3/pid2.i/111114-2.b/1114a012.d/1114a012.cdf

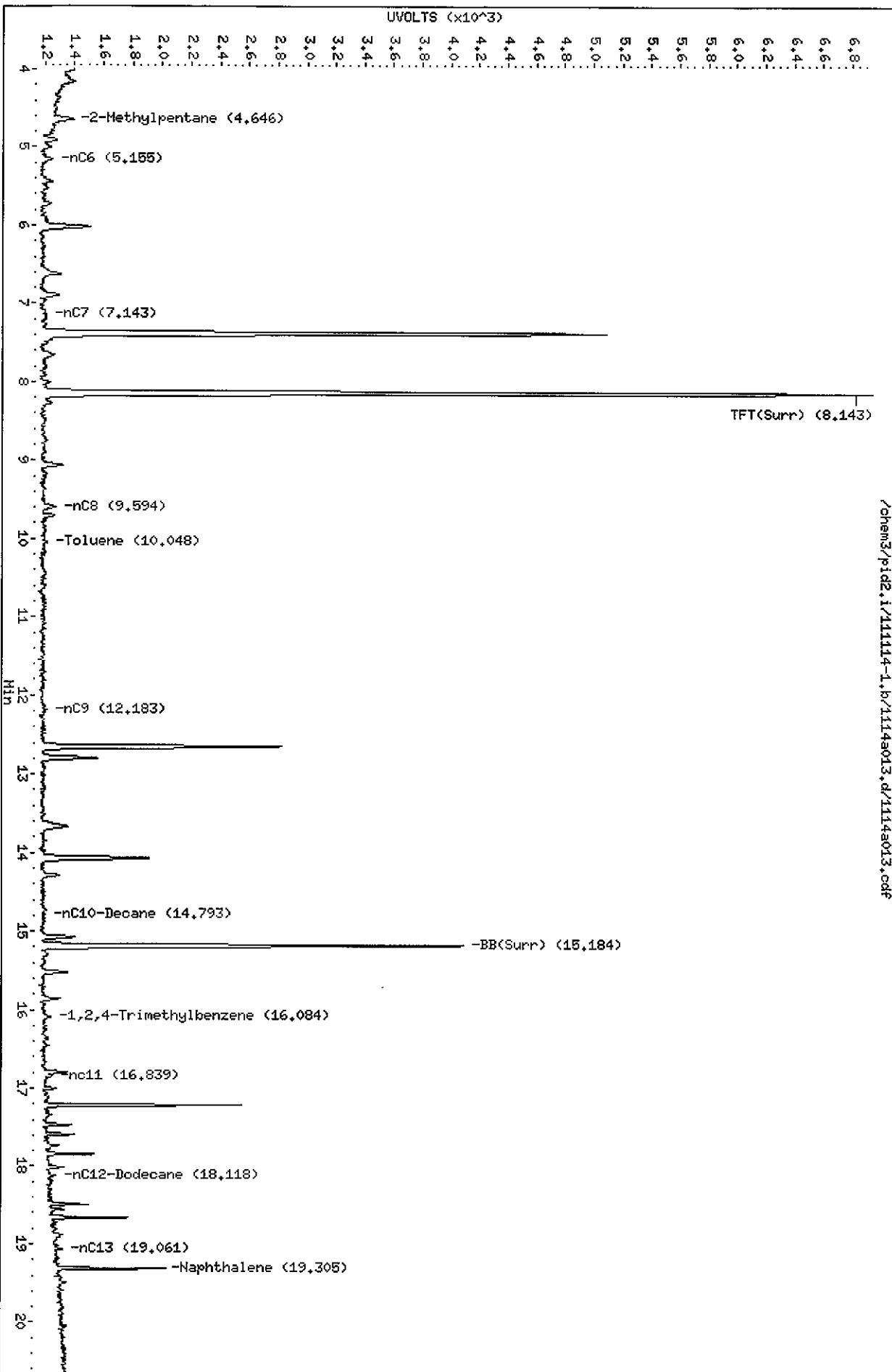


Data File: /chem3/pid2.i/111114-1.b/1114a013.d
Date: 14-NOV-2011 12:59
Client ID: KJ-862-5
Sample Info: TMS9N

Column phase: RTX 502-2 FID

/chem3/pid2.i/111114-1.b/1114a013.d/1114a013.cdf

Instrument: pid2.i
Operator: HH
Column diameter: 0.18



Data File: /chem3/pid2.i/111114-2.b/1114a013.d

Date: 14-NOV-2011 12:59

Client ID: KJ-862-5

Sample Info: TMS9N

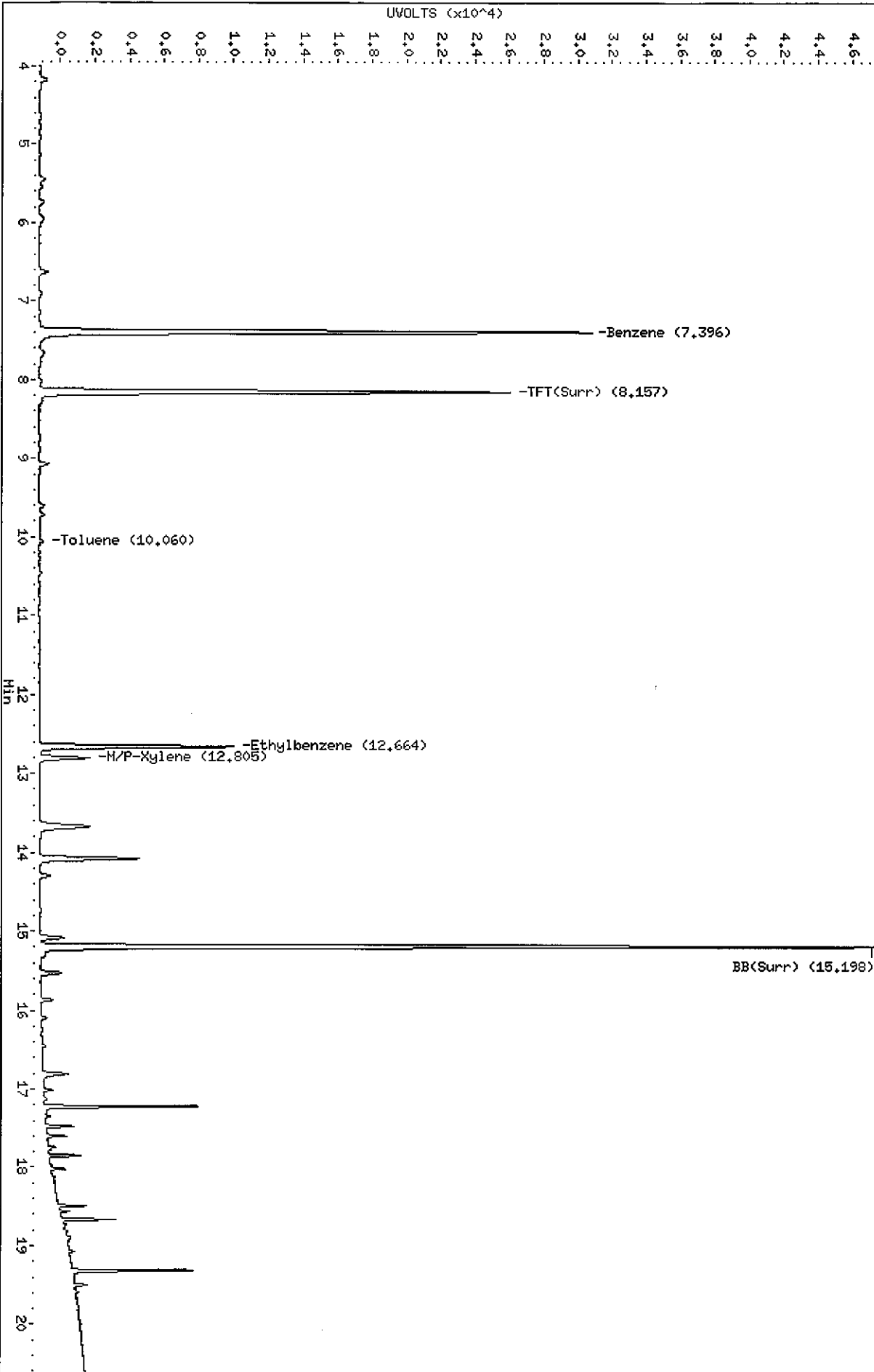
Column phase: RTX 502-2 PID

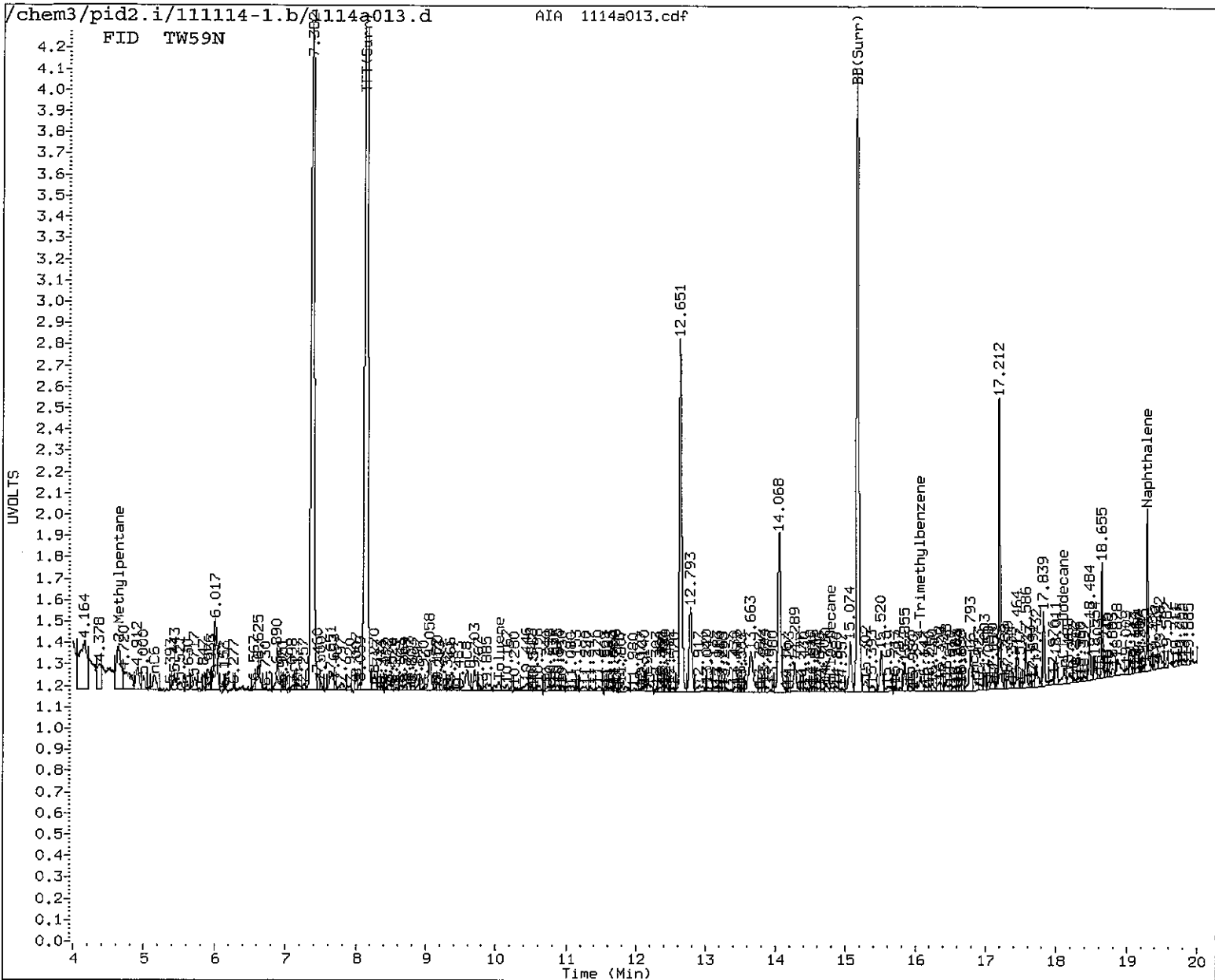
Instrument: pid2.i

Operator: NH

Column diameter: 0.18

/chem3/pid2.i/111114-2.b/1114a013.d/1114a013.cdf





MANUAL INTEGRATION

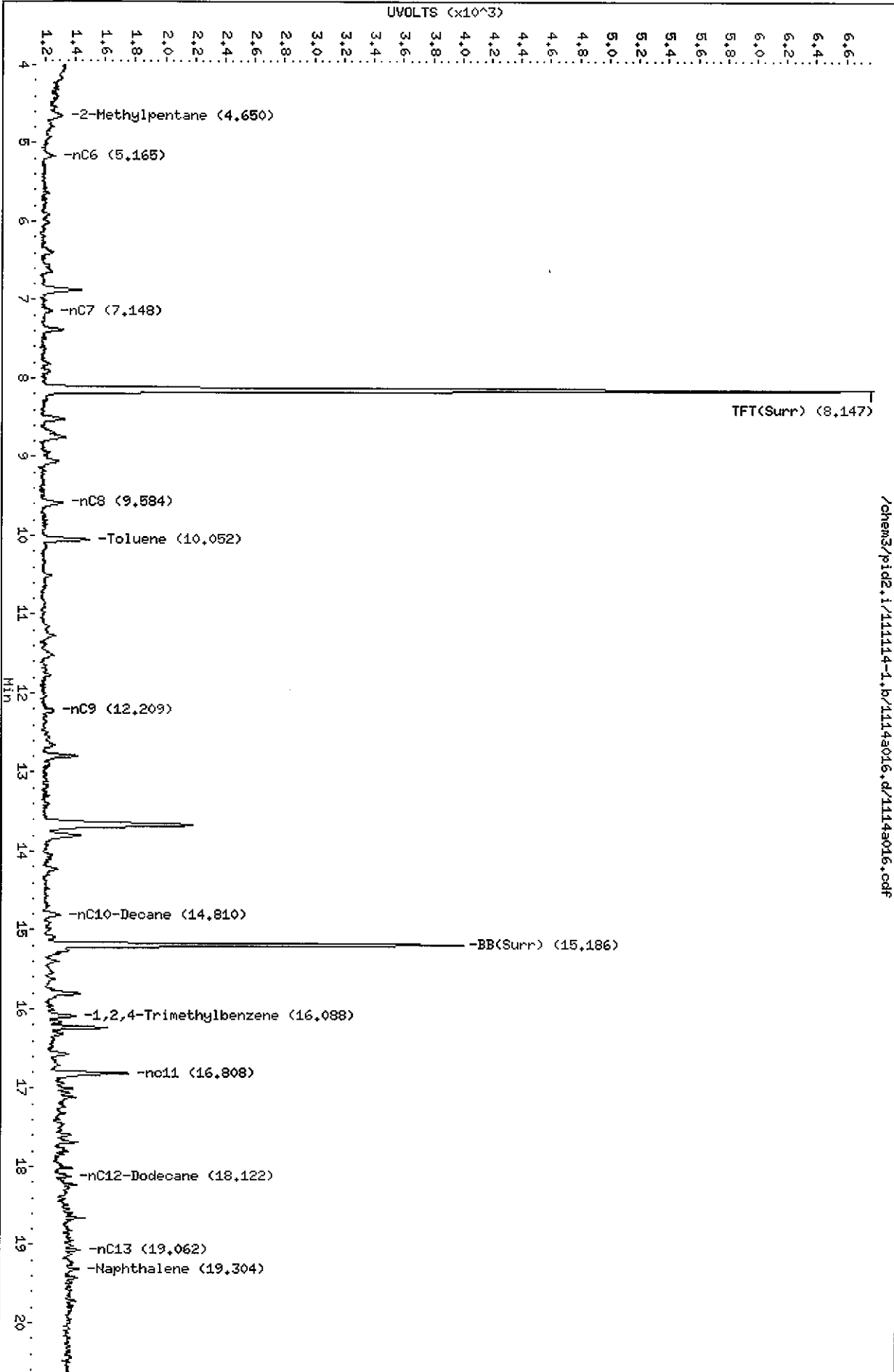
- Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: MH Date: 11/15/11

Data File: /chem3/pid2.i/111114-1.b/1114a016.d
Date: 14-NOV-2011 14:17
Client ID: KJ-853-3
Sample Info: TMS90

Column phase: RTX 502-2 FID

Instrument: pid2.i
Operator: NH
Column diameter: 0.18



/chem3/pid2.i/111114-1.b/1114a016.d/1114a016.pdf

Data File: /chem3/pid2.i/111114-2.b/1114a016.d

Date: 14-NOV-2011 14:17

Client ID: KJ-B53-3

Sample Info: TMS90

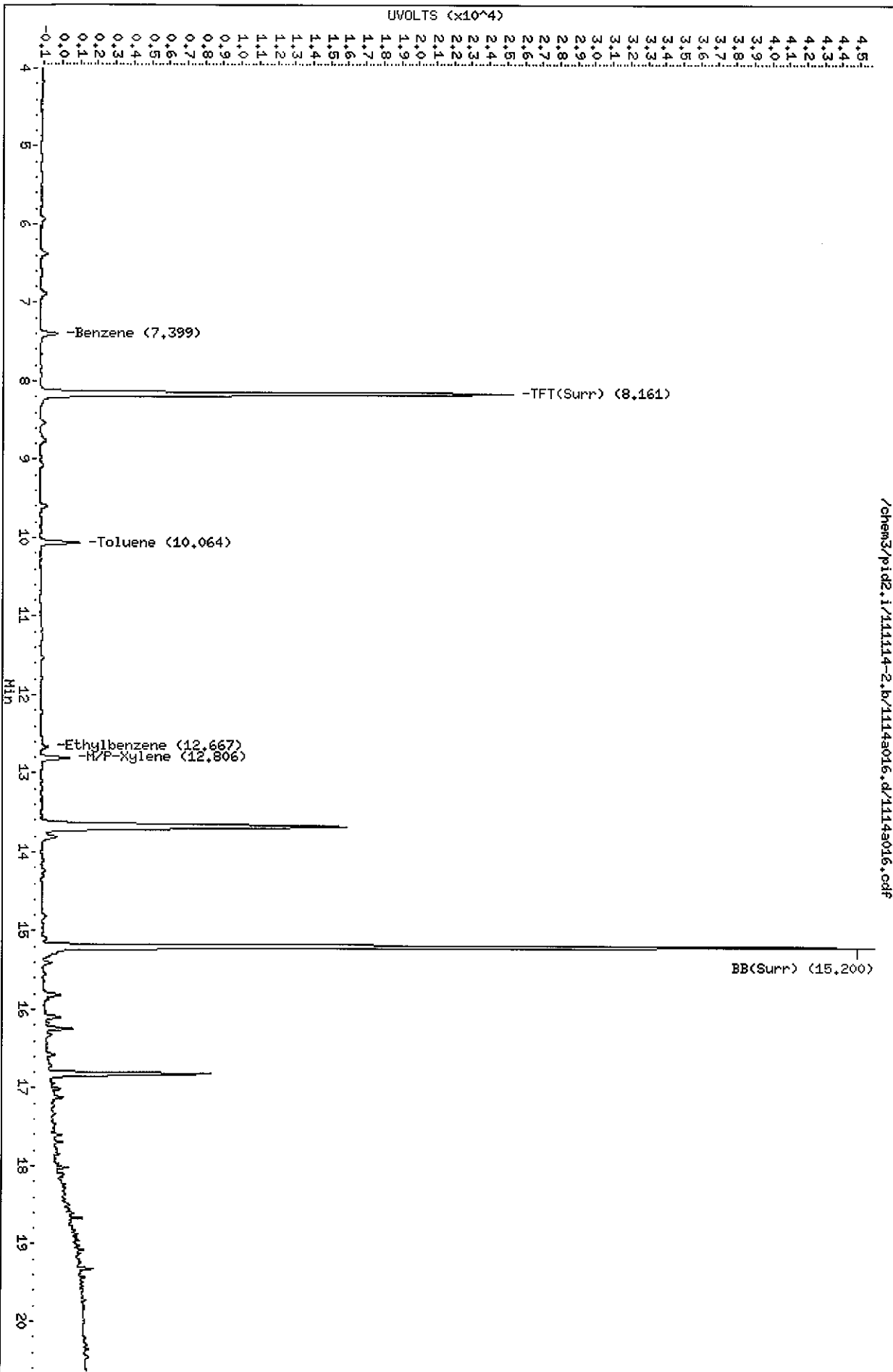
Column phase: RTX 502-2 P1D

Instrument: pid2.i

Operator: MH

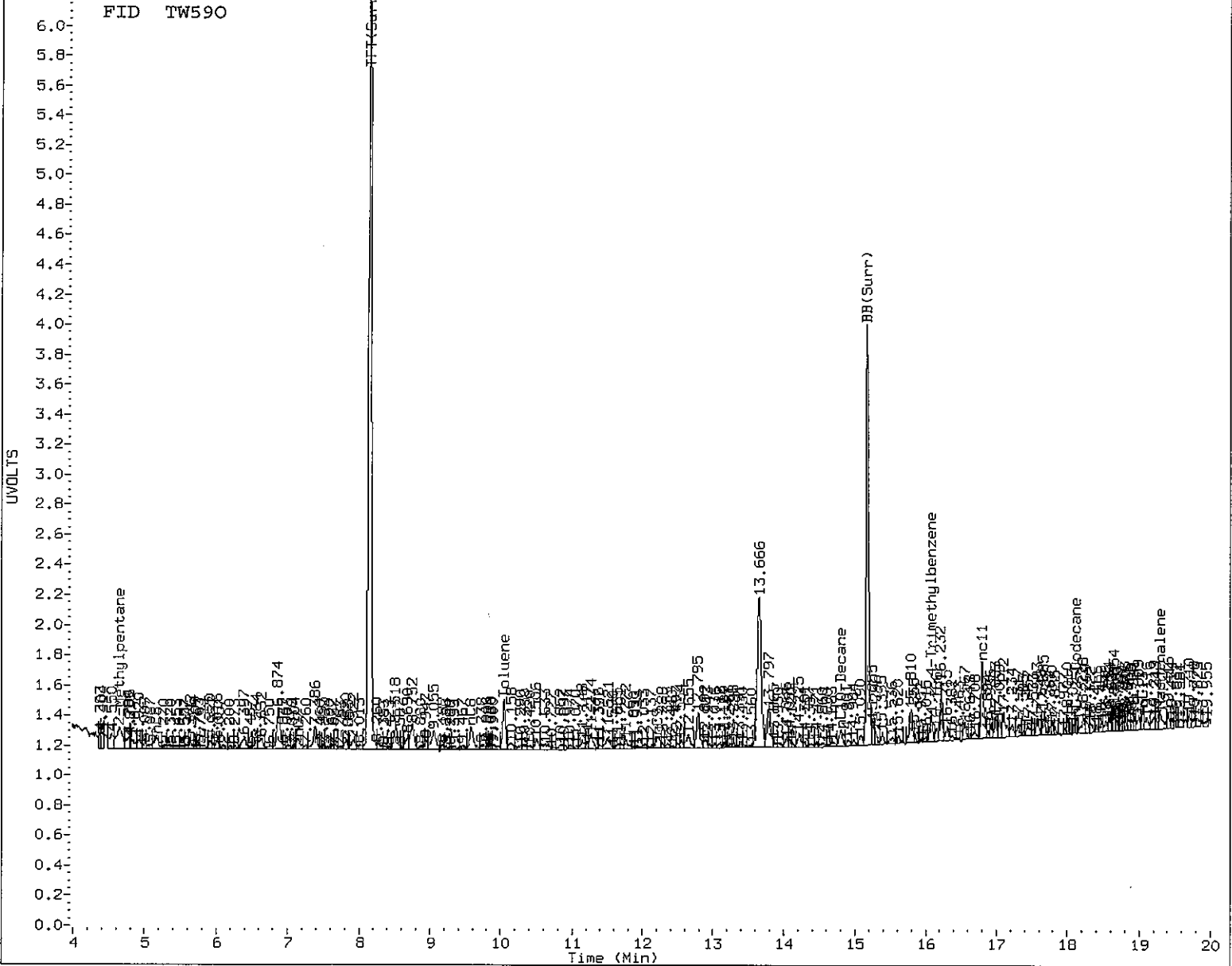
Column diameter: 0.18

Page 1



/chem3/pid2.i/111114-2.b/1114a016.d/1114a016.cdf

FID TW590



MANUAL INTEGRATION

- Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: MH Date: 11/15/11

Data File: /chem3/pid2.i/111114-1.b/11149017.d

Date: 14-NOV-2011 14:43

Client ID: KJ-B54-6

Sample Info: TMS9P

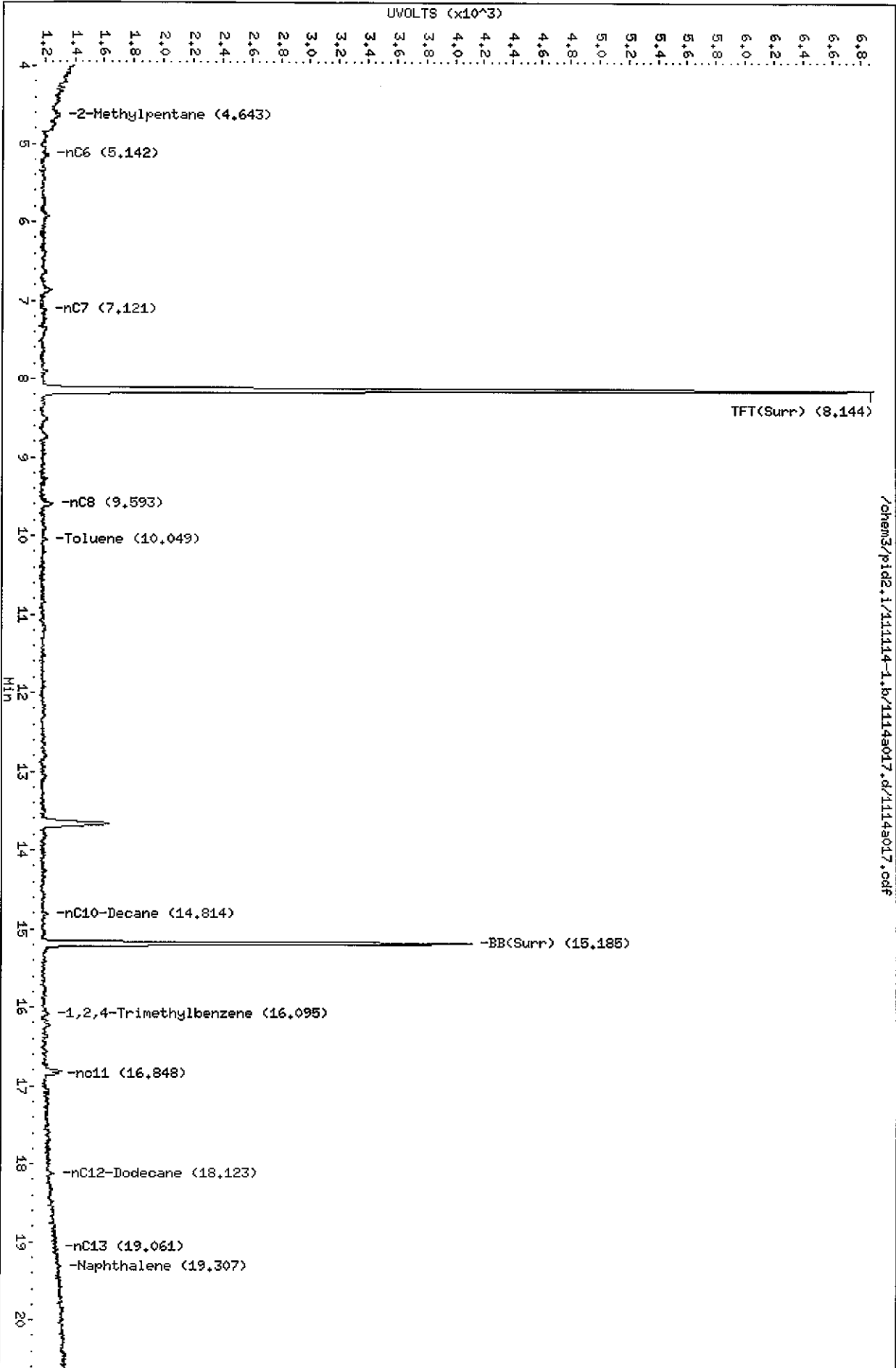
Column phase: RTX 502-2 FID

Instrument: pid2.i

Operator: NH

Column diameter: 0.18

/chem3/pid2.i/111114-1.b/11149017.d/11149017.cdf



Data File: /chem3/pid2.i/111114-2.b/111148017.d

Date: 14-NOV-2011 14:43

Client ID: KJ-B54-6

Sample Info: TW59P

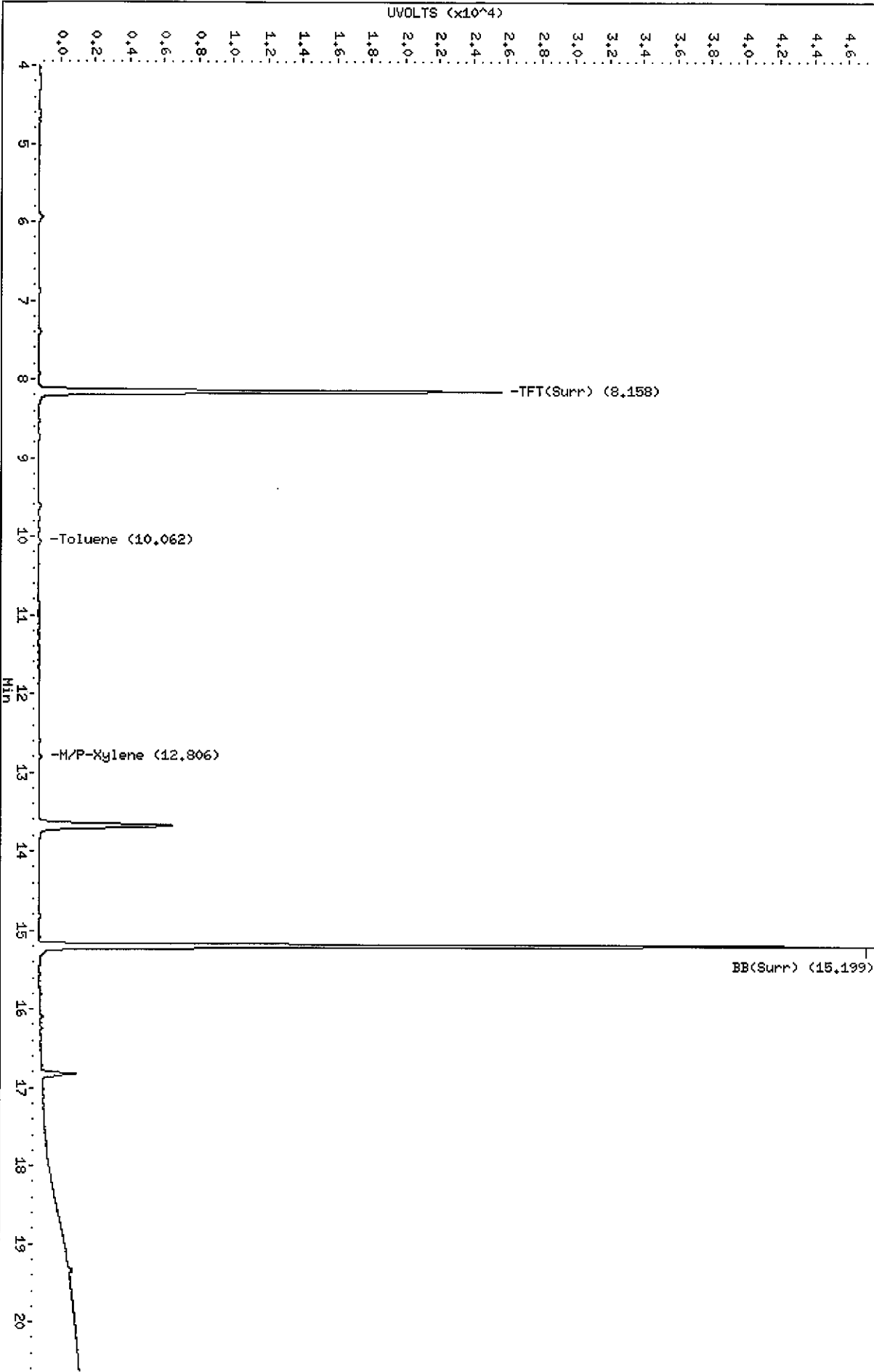
Column phase: RTX 502-2 PID

Instrument: pid2.i

Operator: NH

Column diameter: 0.18

/chem3/pid2.i/111114-2.b/111148017.d/111148017.cdf

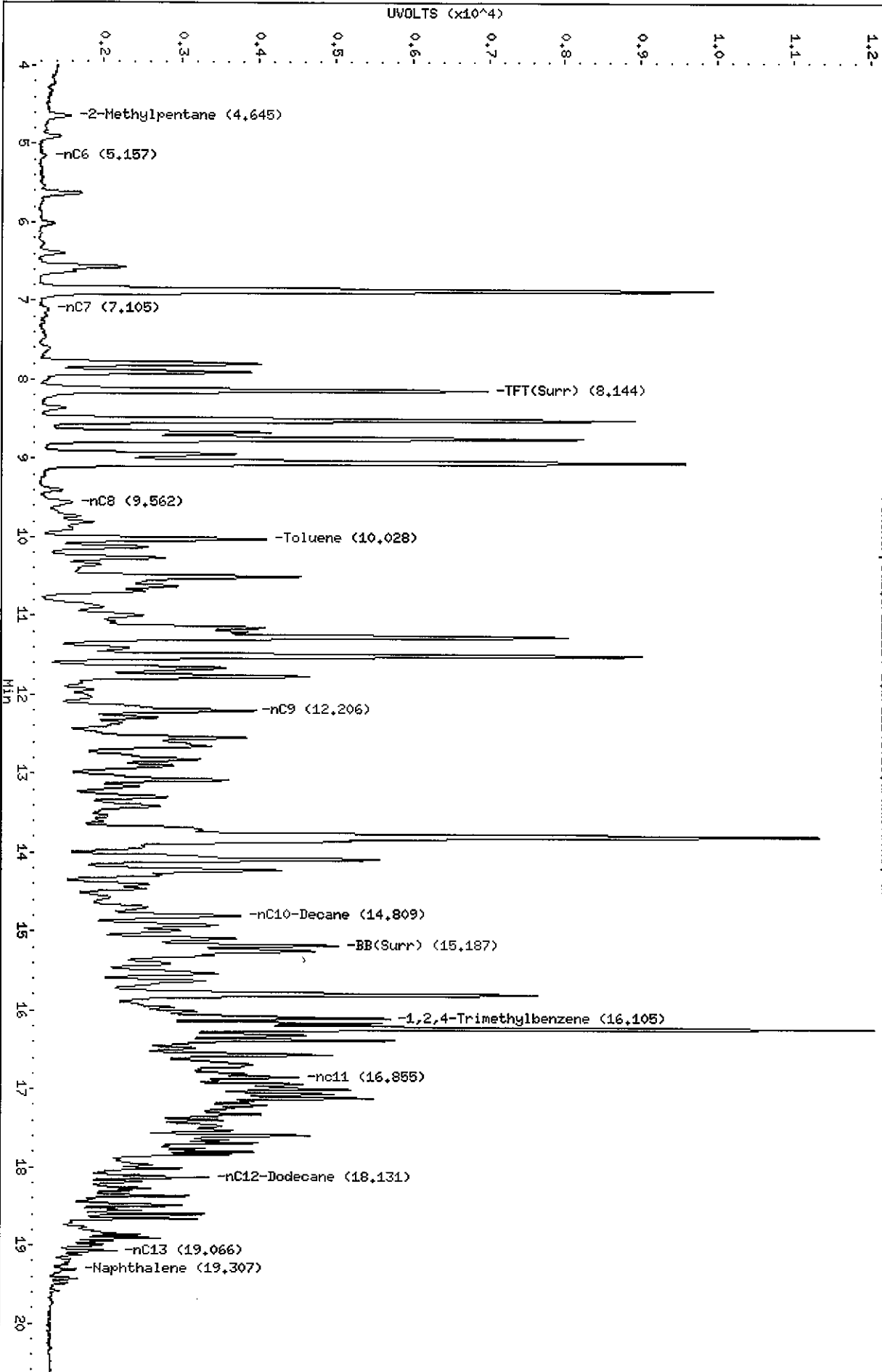


Data File: /chem3/pid2.i/111114-1.b/1114a018.d
Date: 14-NOV-2011 15:09
Client ID: KJ-855-3
Sample Info: TMS90

Column phase: RTX 502-2 FID

/chem3/pid2.i/111114-1.b/1114a018.d/1114a018.cdf

Instrument: pid2.i
Operator: NH
Column diameter: 0.18



Data File: /chem3/pid2.i/111114-2.b/1114a018.d

Date: 14-NOV-2011 15:09

Client ID: KJ-B55-3

Sample Info: TMS9Q

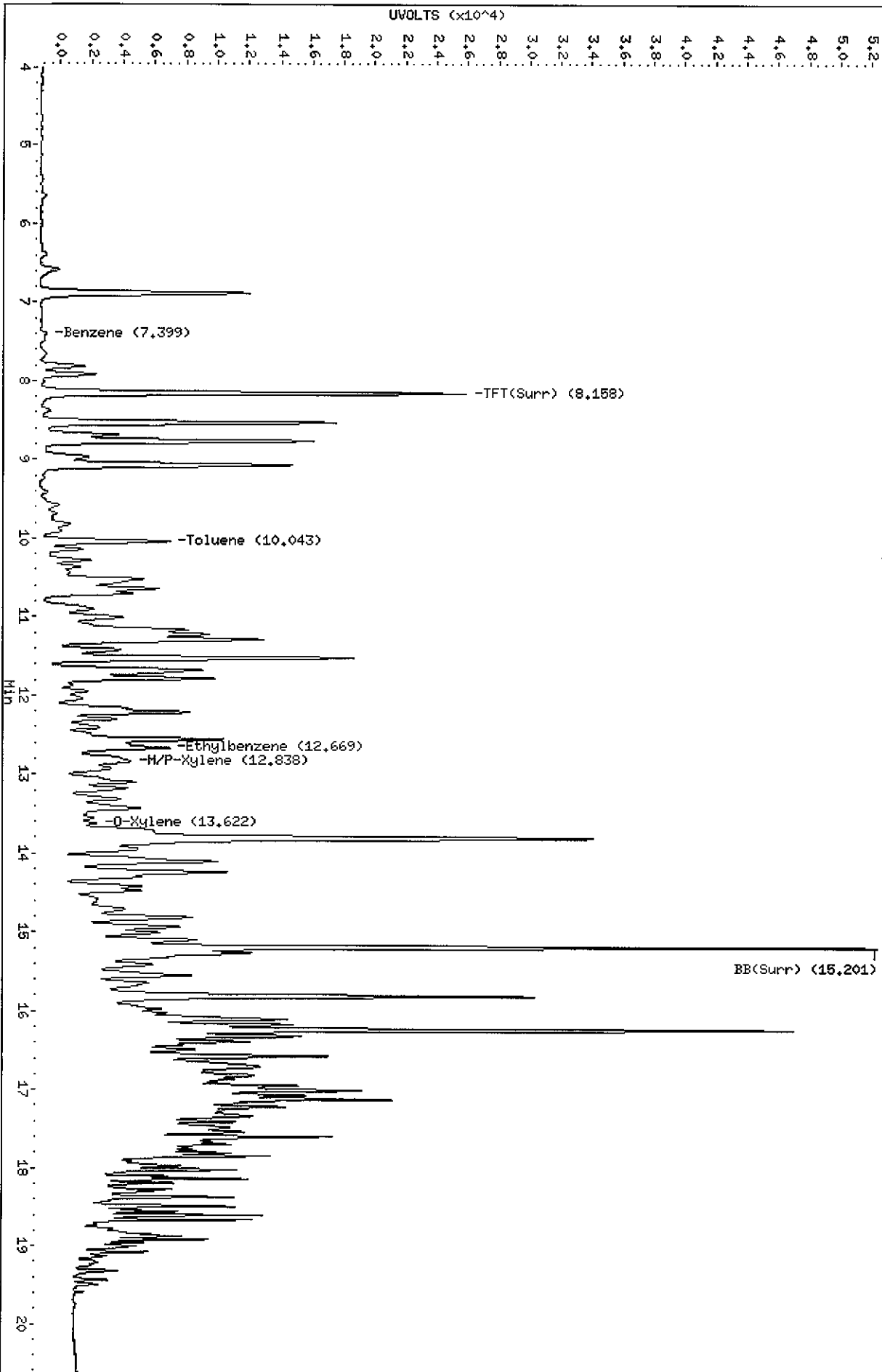
Column phase: RTX 502-2 PID

Instrument: pid2.i

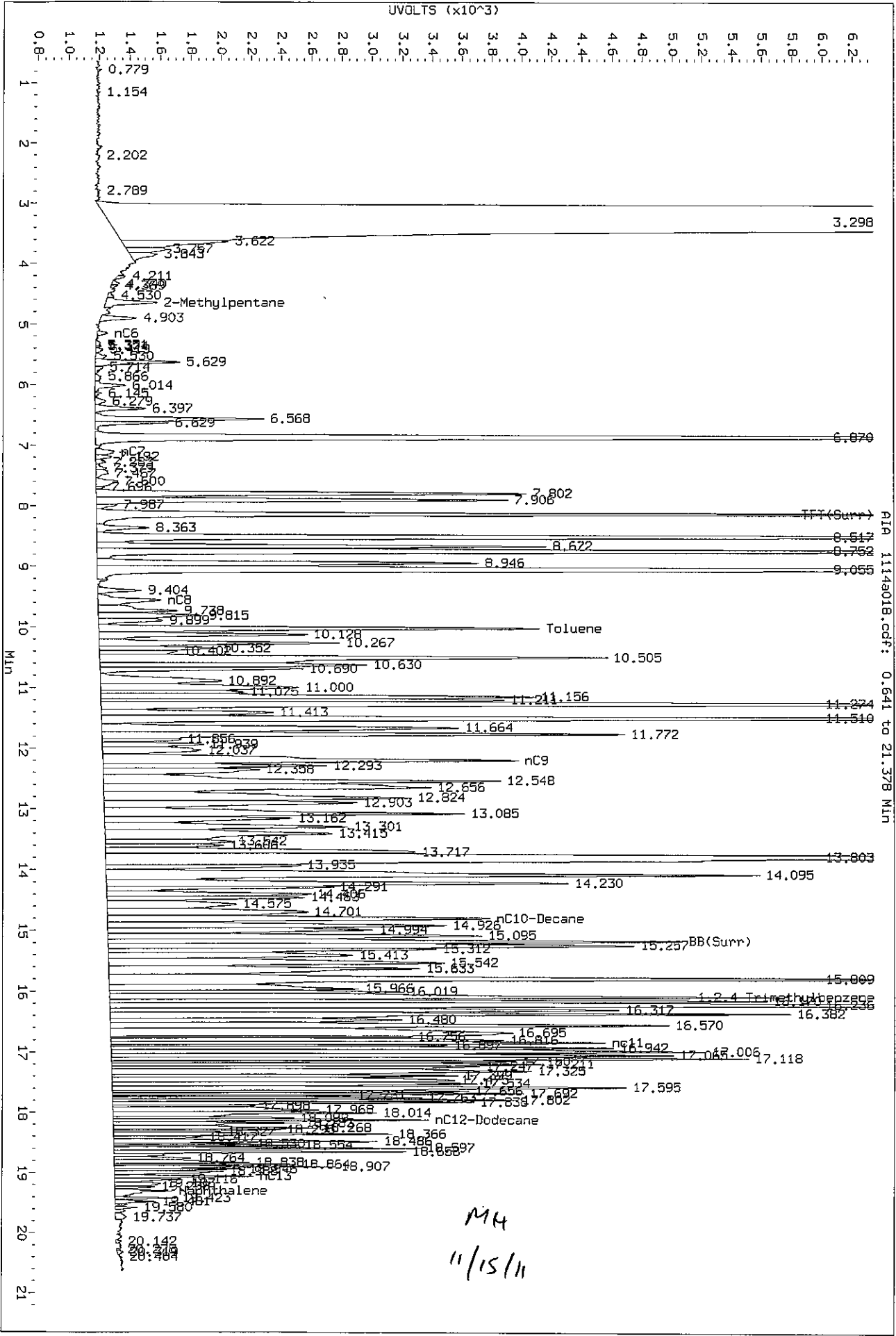
Operator: HH

Column diameter: 0.18

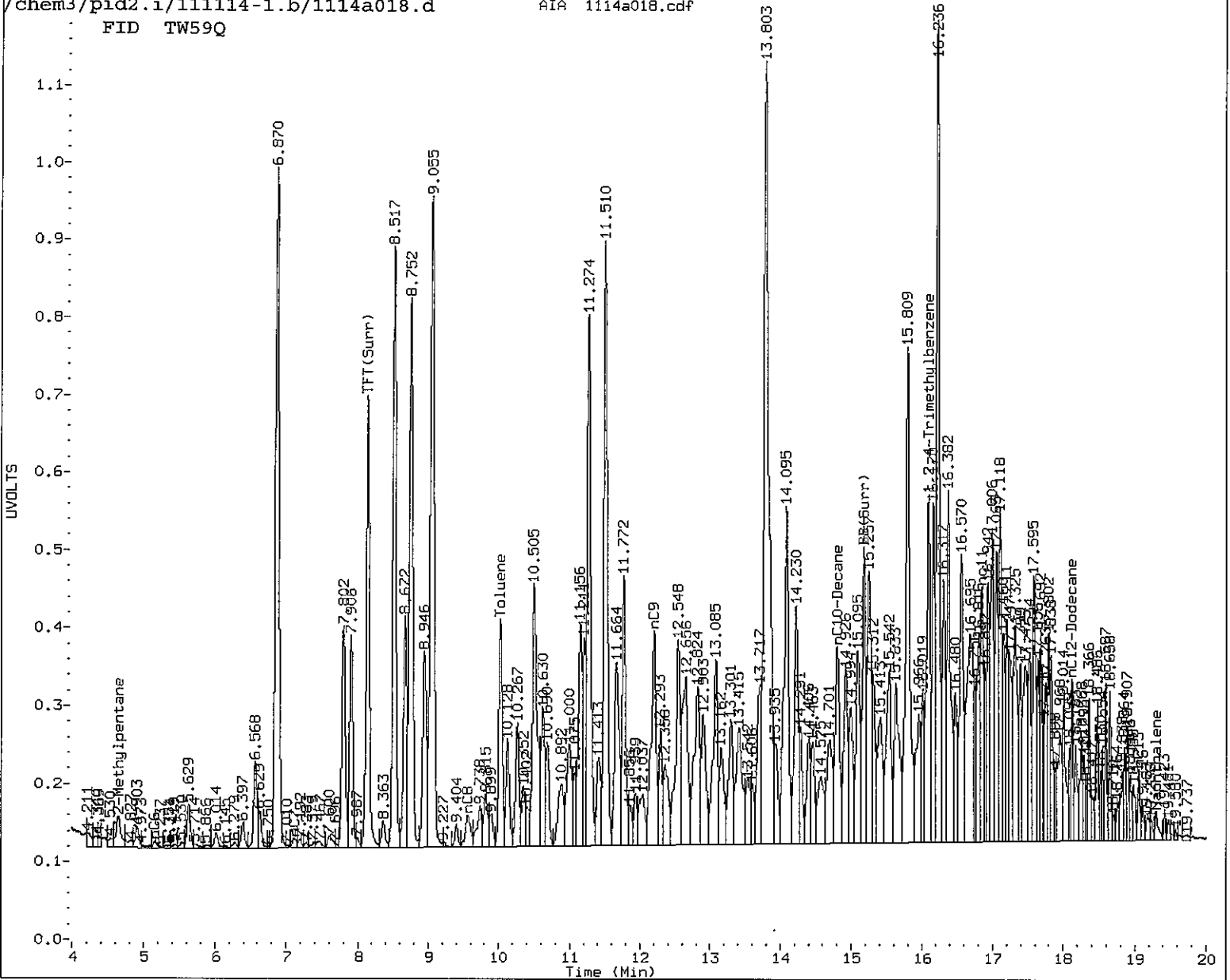
/chem3/pid2.i/111114-2.b/1114a018.d/1114a018.cdf



Data File: /chem3/pid2.1/111114-1.b/1114a018.d/1114a018.cdf
 Injection Date: 14-NOV-2011 15:09
 Instrument: pid2.1
 Client Sample ID: KJ-B55-3



MH
 11/15/11



MANUAL INTEGRATION

- Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

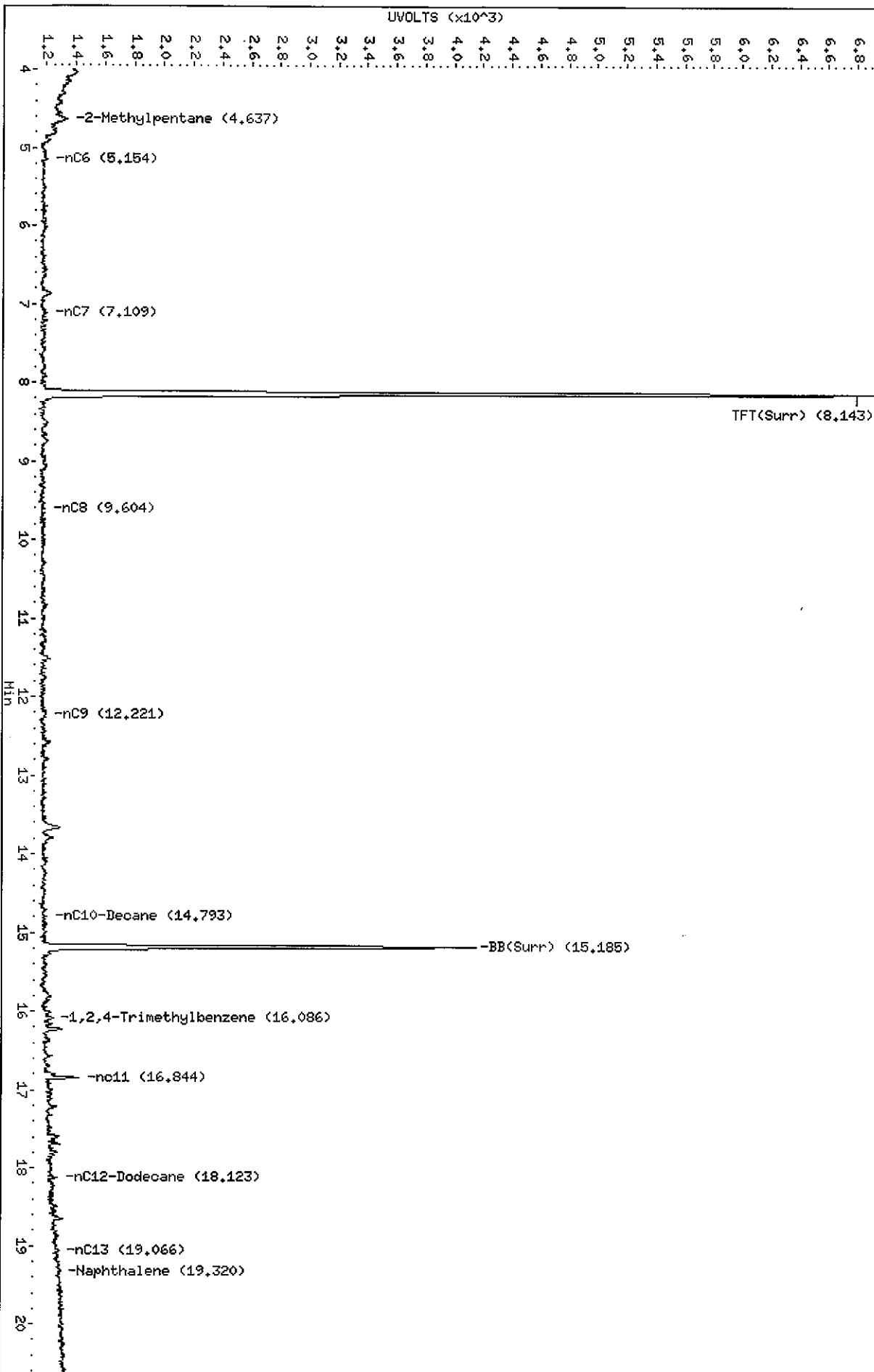
Analyst: MA Date: 11/15/11

Data File: /chem3/pid2.i/111114-1.b/1114a020.d
Date: 14-NOV-2011 16:01
Client ID: KJ-857-5
Sample Info: TMS9S

Column phase: RTX 502-2 FID

Instrument: pid2.i
Operator: MH
Column diameter: 0.18

/chem3/pid2.i/111114-1.b/1114a020.d/1114a020.cdf



Data File: /chem3/pid2.i/111114-2.b/1114a020.d

Date: 14-NOV-2011 16:01

Client ID: KJ-857-5

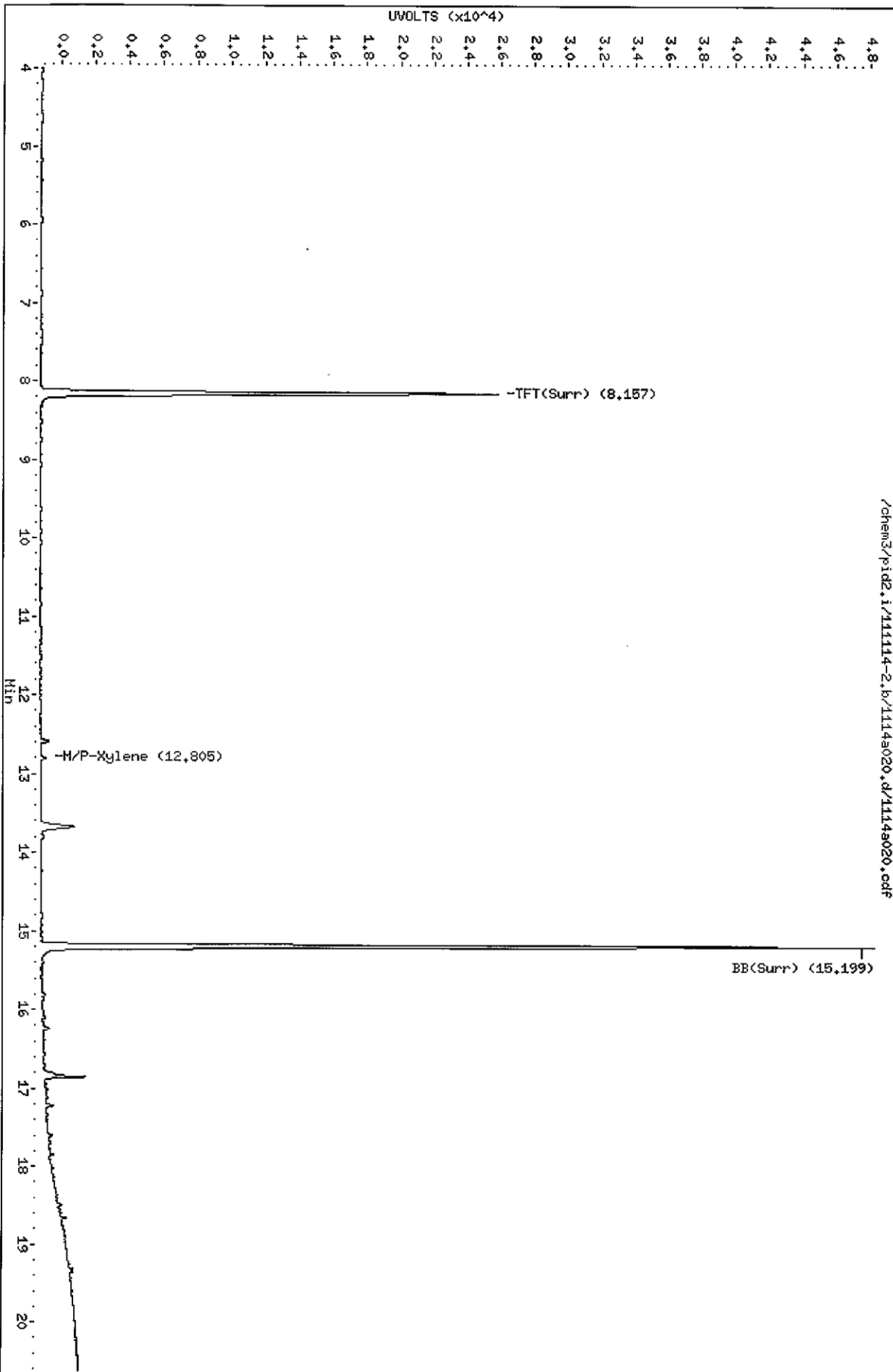
Sample Info: TMS9S

Column Phaset: RTX 502-2 PID

Instrument: pid2.i

Operator: MH

Column diameter: 0.18



Data File: /chem3/pid2.i/111114-1.b/1114a021.d

Date: 14-NOV-2011 16:27

Client ID: KJ-858-3

Sample Info: TMS9T

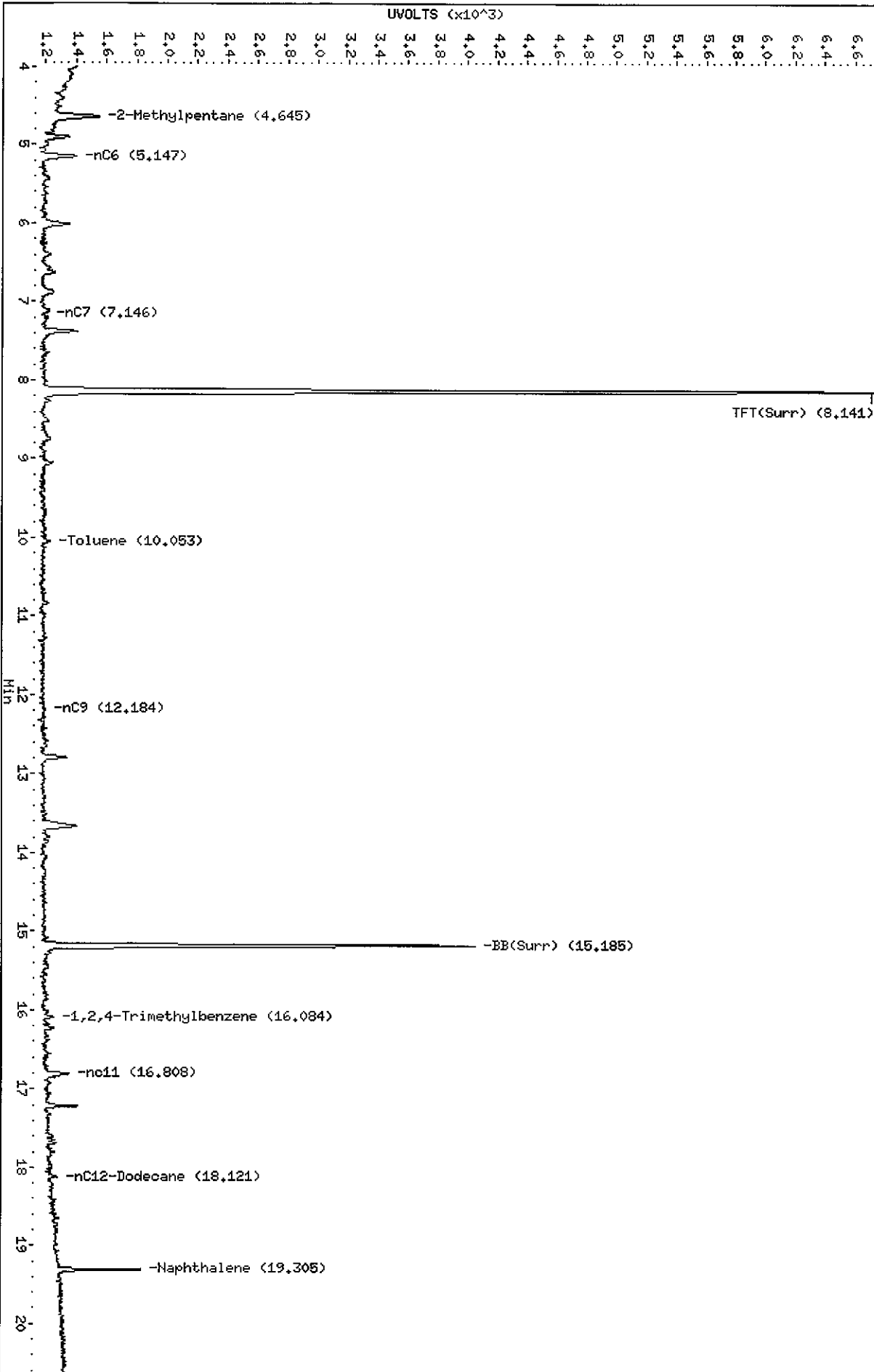
Column phase: RTX 502-2 FID

Instrument: pid2.i

Operator: NH

Column diameter: 0.18

/chem3/pid2.i/111114-1.b/1114a021.d/1114a021.cdf



Data File: /chem3/pid2.i/111114-2.b/1114a021.d

Date: 14-NOV-2011 16:27

Client ID: KJ-858-3

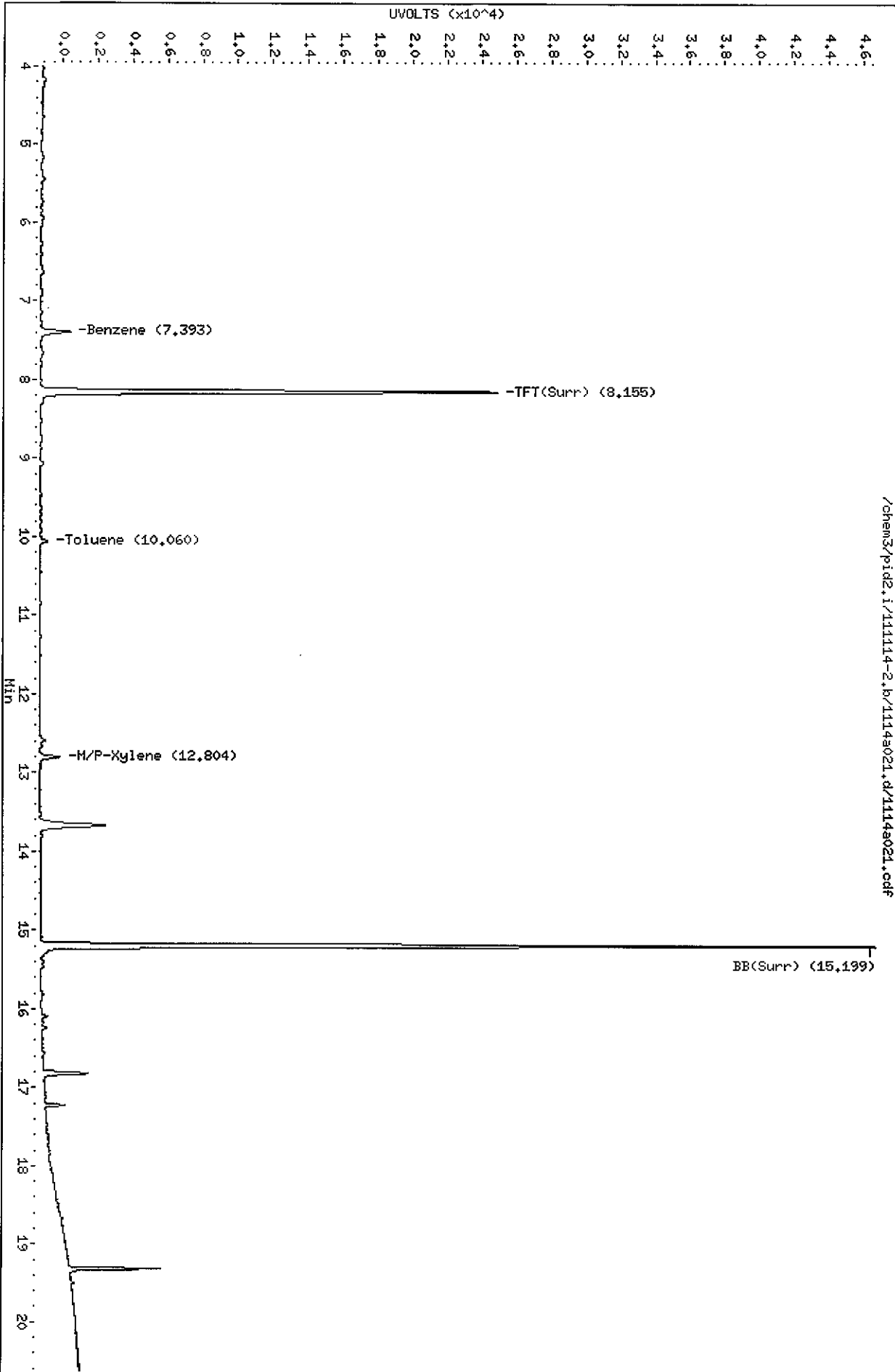
Sample Info: TMS9T

Column phase: RTX 502-2 P10

Instrument: pid2.i

Operator: HH

Column diameter: 0.18



/chem3/pid2.i/111114-2.b/1114a021.d/1114a021.cdf

Data File: /chem3/pid1.i/vpoc1115-1.b/1115a004.d

Date: 15-NOV-2011 06:59

Client ID:

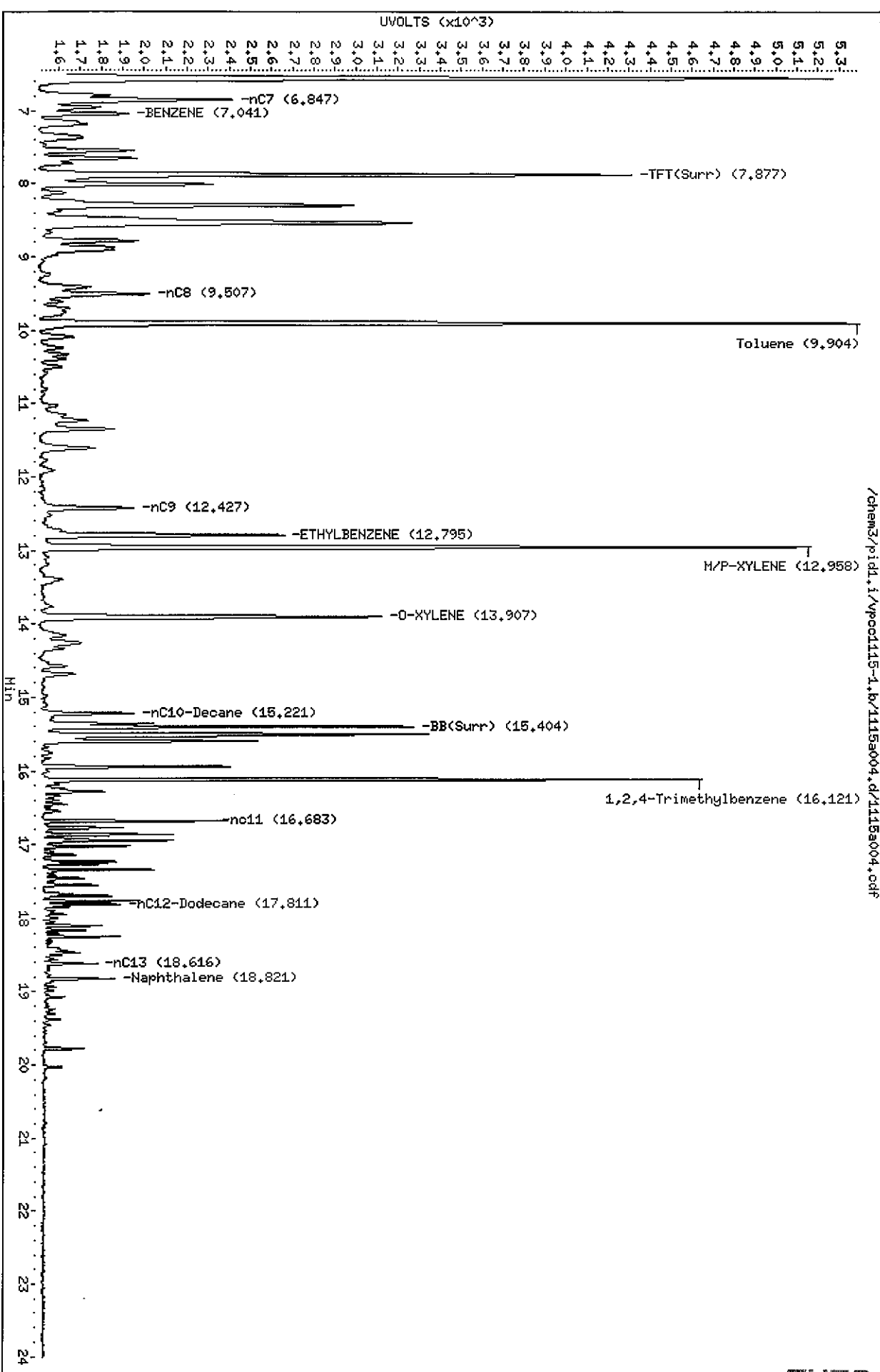
Sample Info: LCS1115

Column phase: RTX 502-2 FID

Instrument: pid1.i

Operator: MH

Column diameter: 0.18

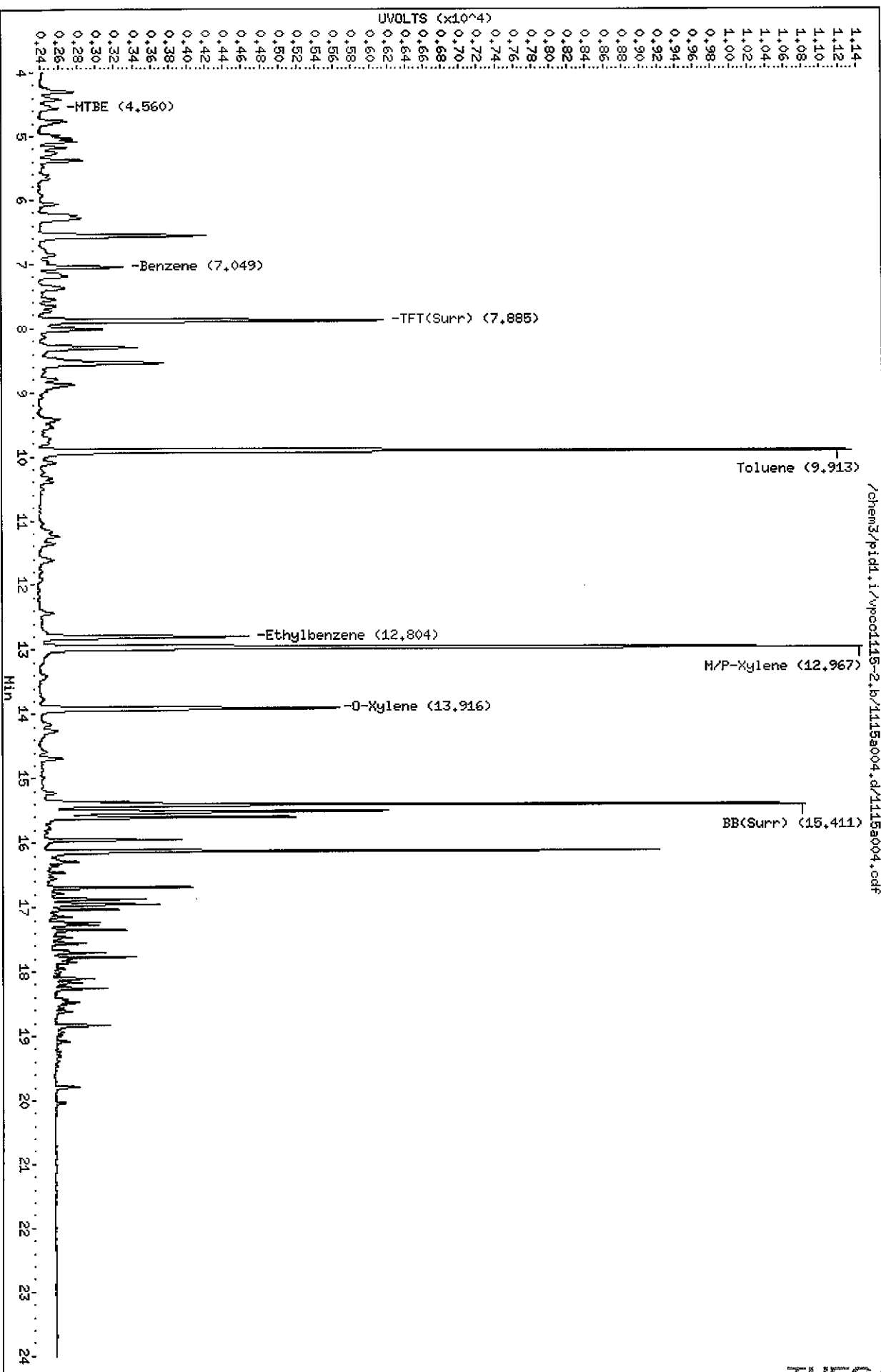


11/15/2011 06:59

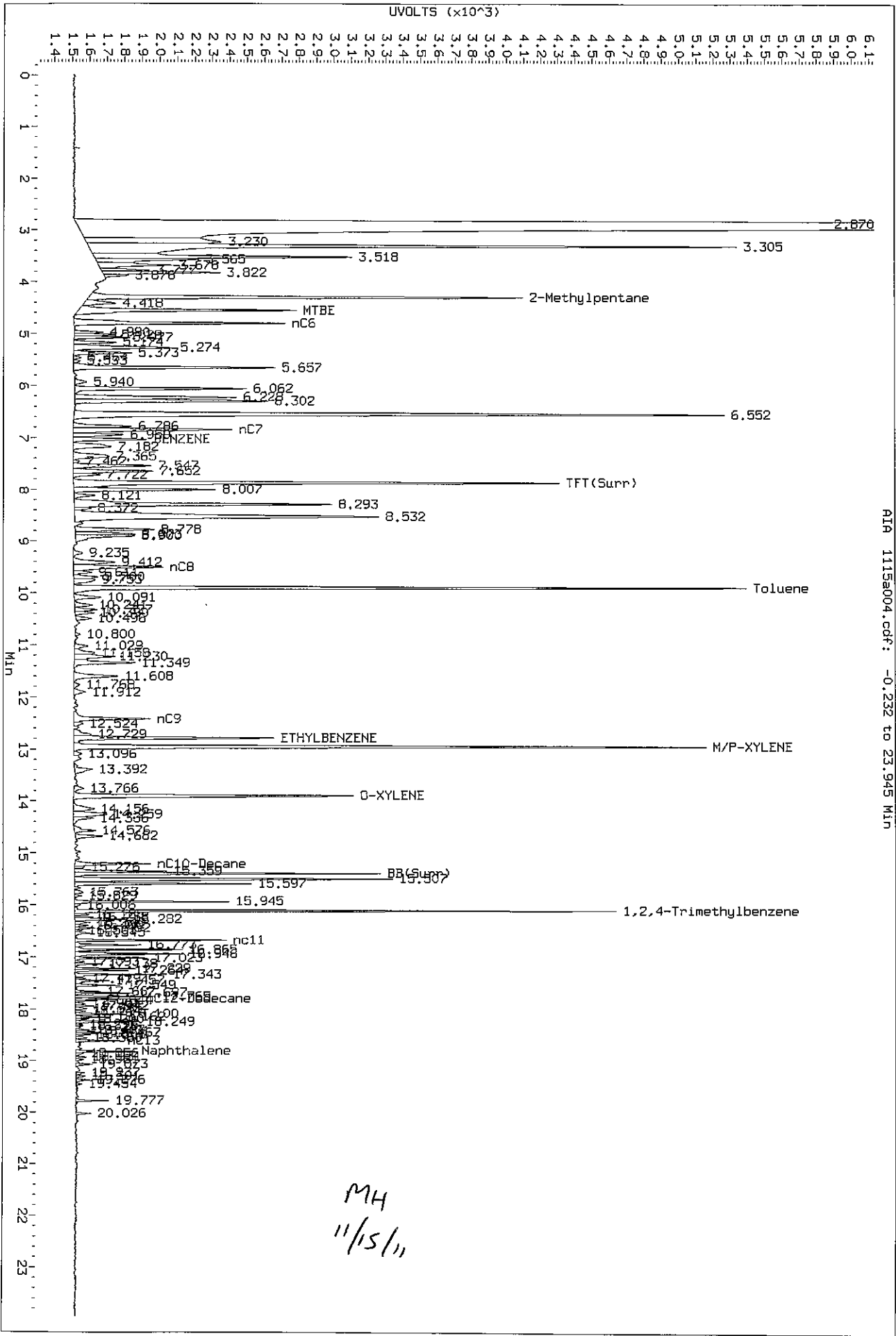
Data File: /chem3/pid1.i/vpoc1115-2.b/1115a004.d
Date: 15-NOV-2011 06:59
Client ID:
Sample Info: LCS1115

Column phase: RTX 502-2 PID

Instrument: pid1.i
Operator: MH
Column diameter: 0.18



Data File: /chem3/pid1.i/vpoc1115-1.b/1115a004.d/1115a004.cdf
 Injection Date: 15-NOV-2011 06:59
 Instrument: pid1.1
 Client Sample ID:



AIN 1115a004.cdf: -0.232 to 23.945 Min

MH
11/15/11

Data File: /chem3/pid1.i/vpc01115-1.b/1115a005.d

Date: 15-NOV-2011 07:28

Client ID:

Sample Info: LCSD1115

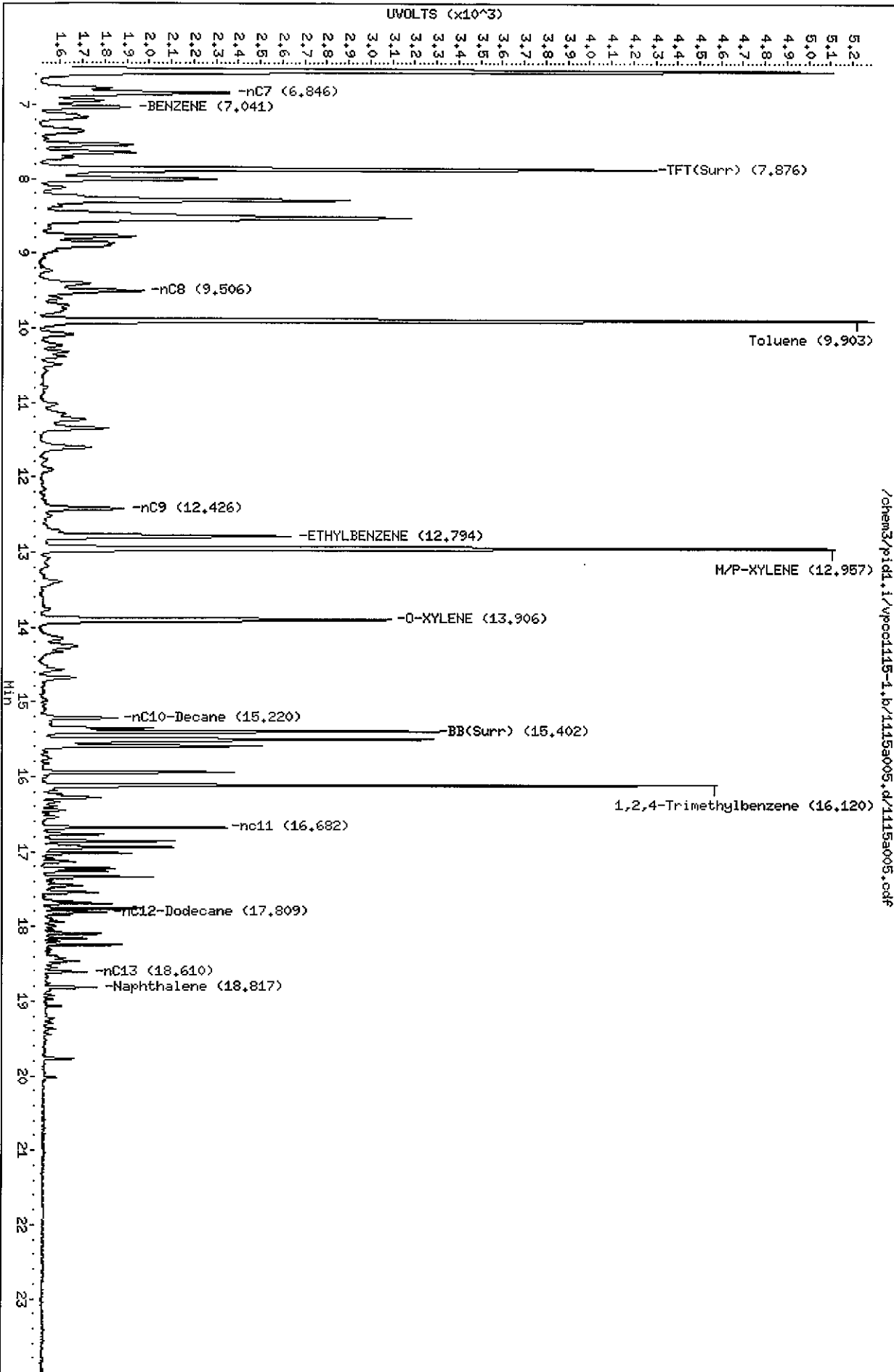
Column phase: RTX 502-2 FID

Instrument: pid1.i

Operator: NH

Column diameter: 0.18

Page 1



Data File: /chem3/pid1.i/vpoc1115-2.b/1115a005.d

Date: 15-NOV-2011 07:28

Client ID:

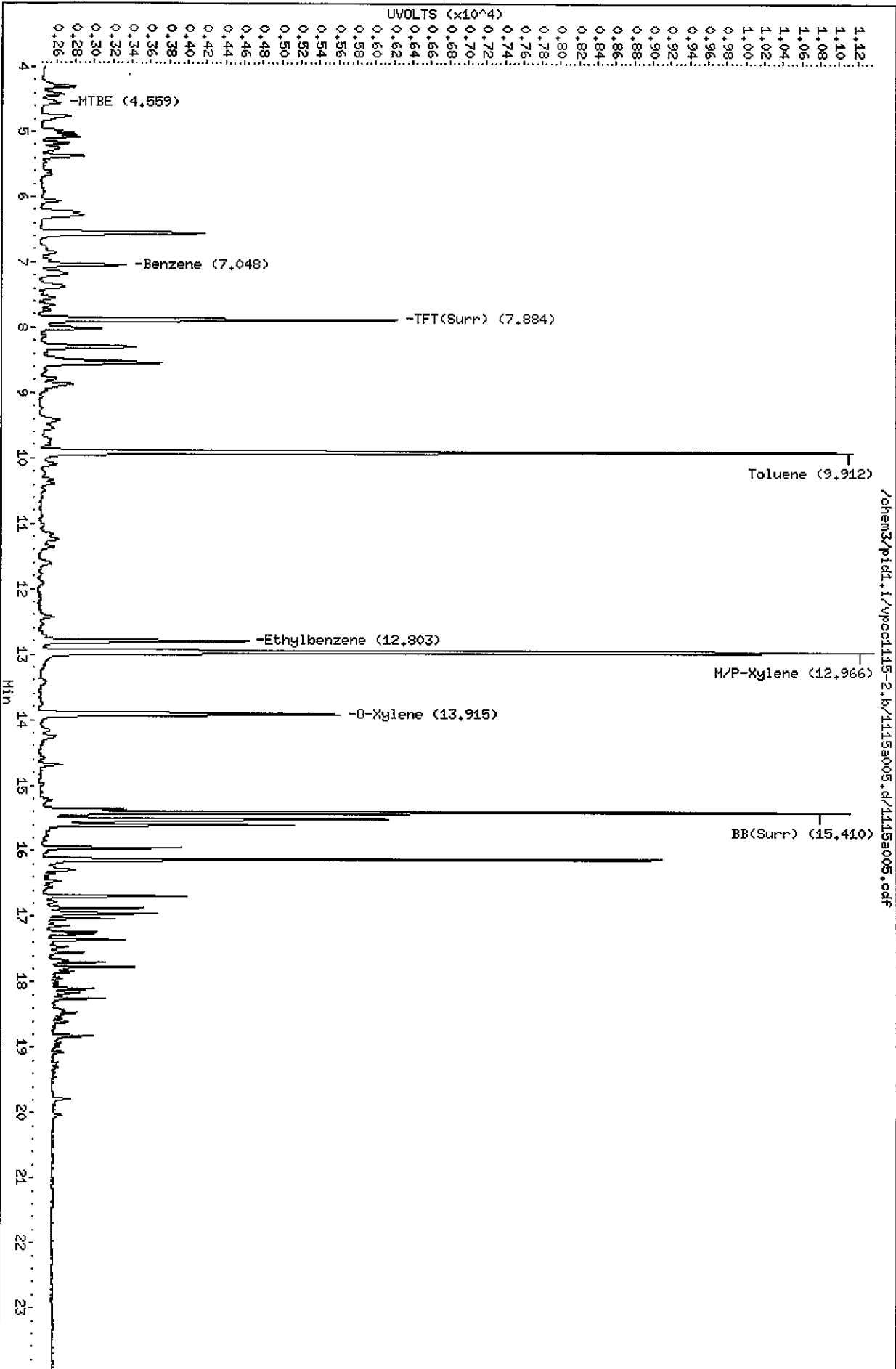
Sample Info: LCSD1115

Column phase: RTX 502-2 PID

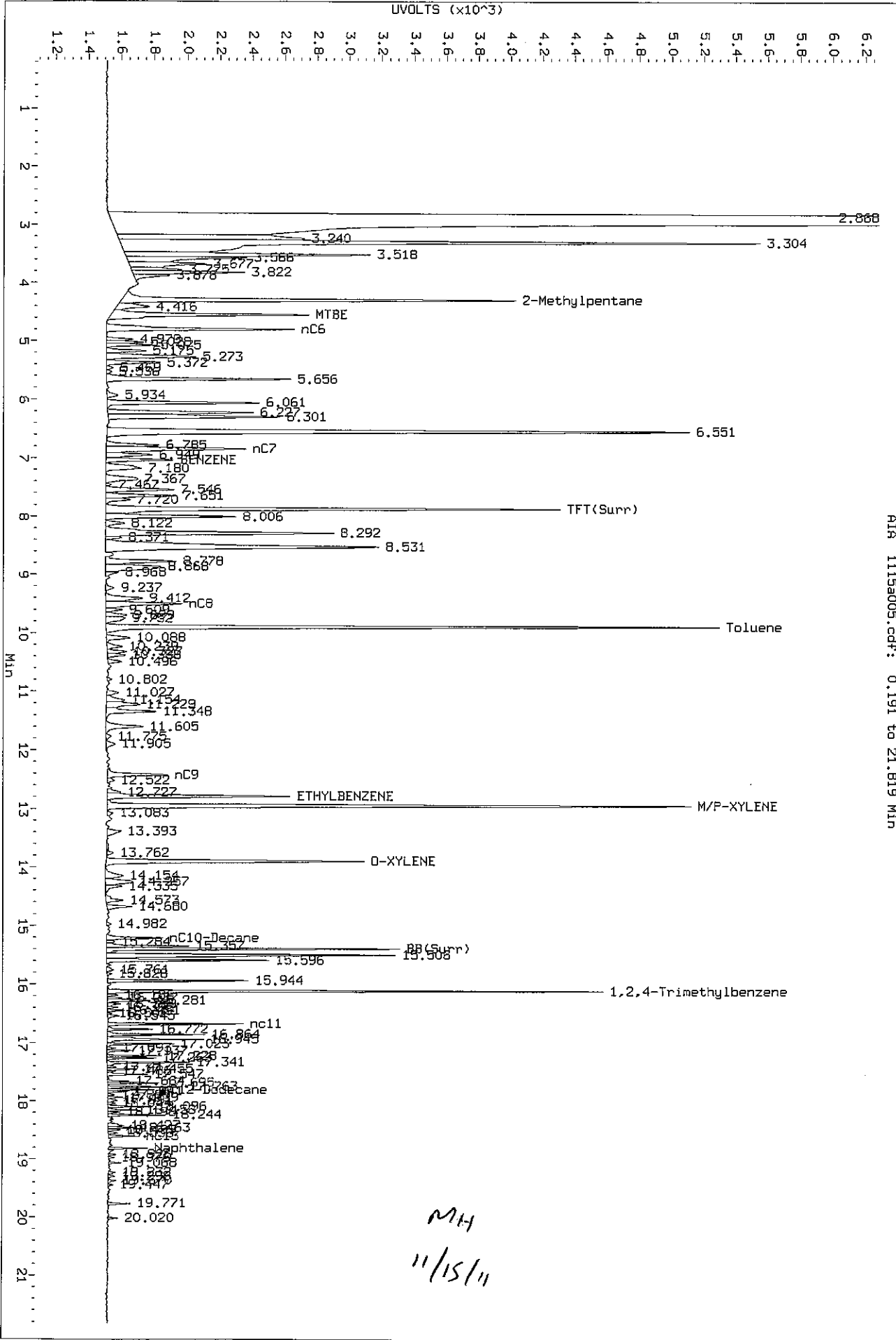
Instrument: pid1.i

Operator: NH

Column diameter: 0.18

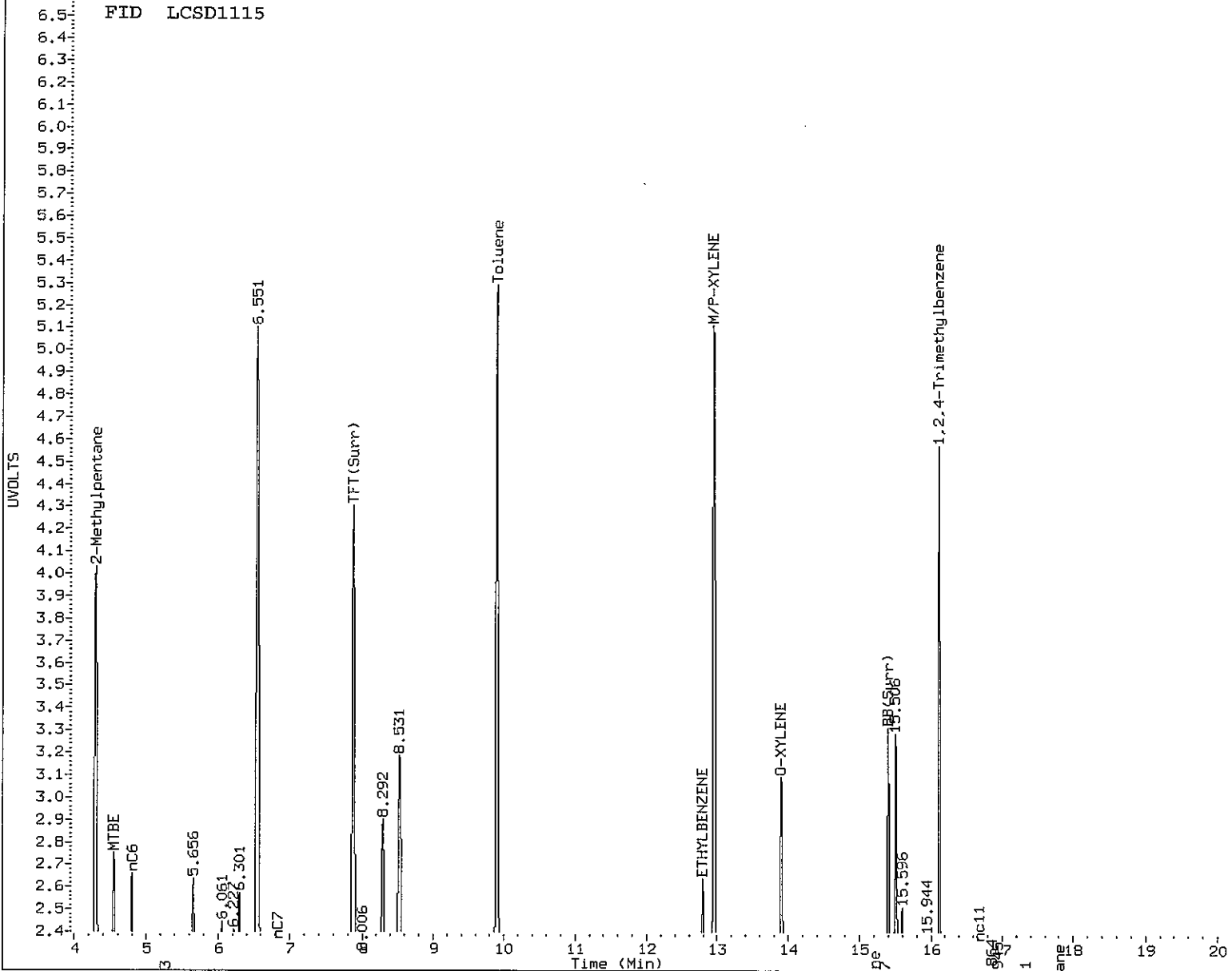


Data File: /chem3/pid1.1/vpcc1115-1.b/1115a005.d/1115a005.cdf
 Injection Date: 15-NOV-2011 07:28
 Instrument: pid1.1
 Client Sample ID:



AIA 1115a005.cdf: 0.191 to 21.819 MIN

FID LCSD1115



MANUAL INTEGRATION

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: MH Date: 11/15/11

Data File: /chem3/pid1.i/vpec1115-1.b/1115a006.d

Date: 15-NOV-2011 07:58

Client ID:

Sample Info: HB1115

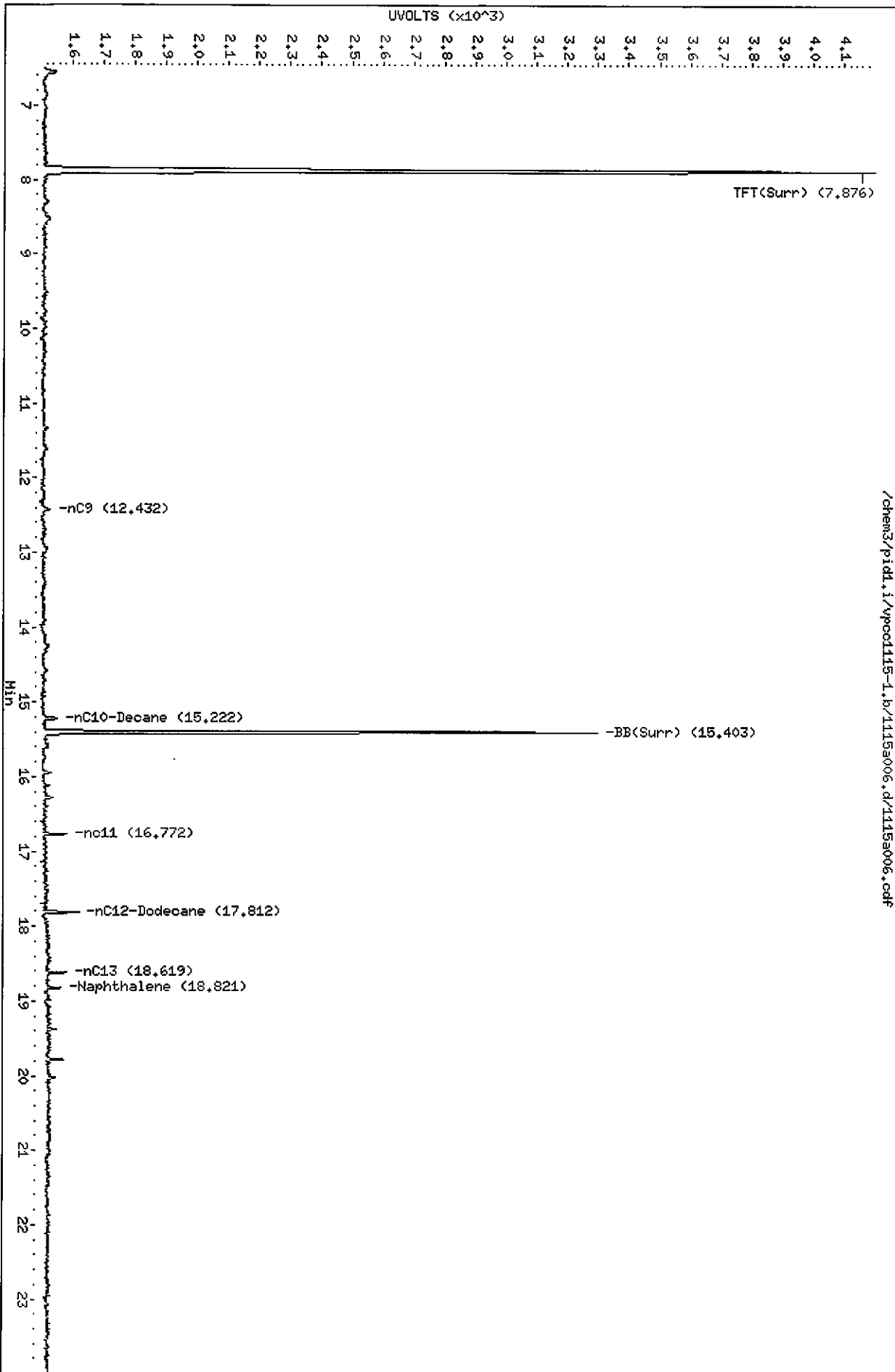
Column phase: RTX 502-2 FID

Instrument: pid1.i

Operator: NH

Column diameter: 0.18

/chem3/pid1.i/vpec1115-1.b/1115a006.d/1115a006.cdf



Data File: /chem3/pid1.i/vpoc1115-2.b/1115a006.d

Date: 15-NOV-2011 07:58

Client ID:

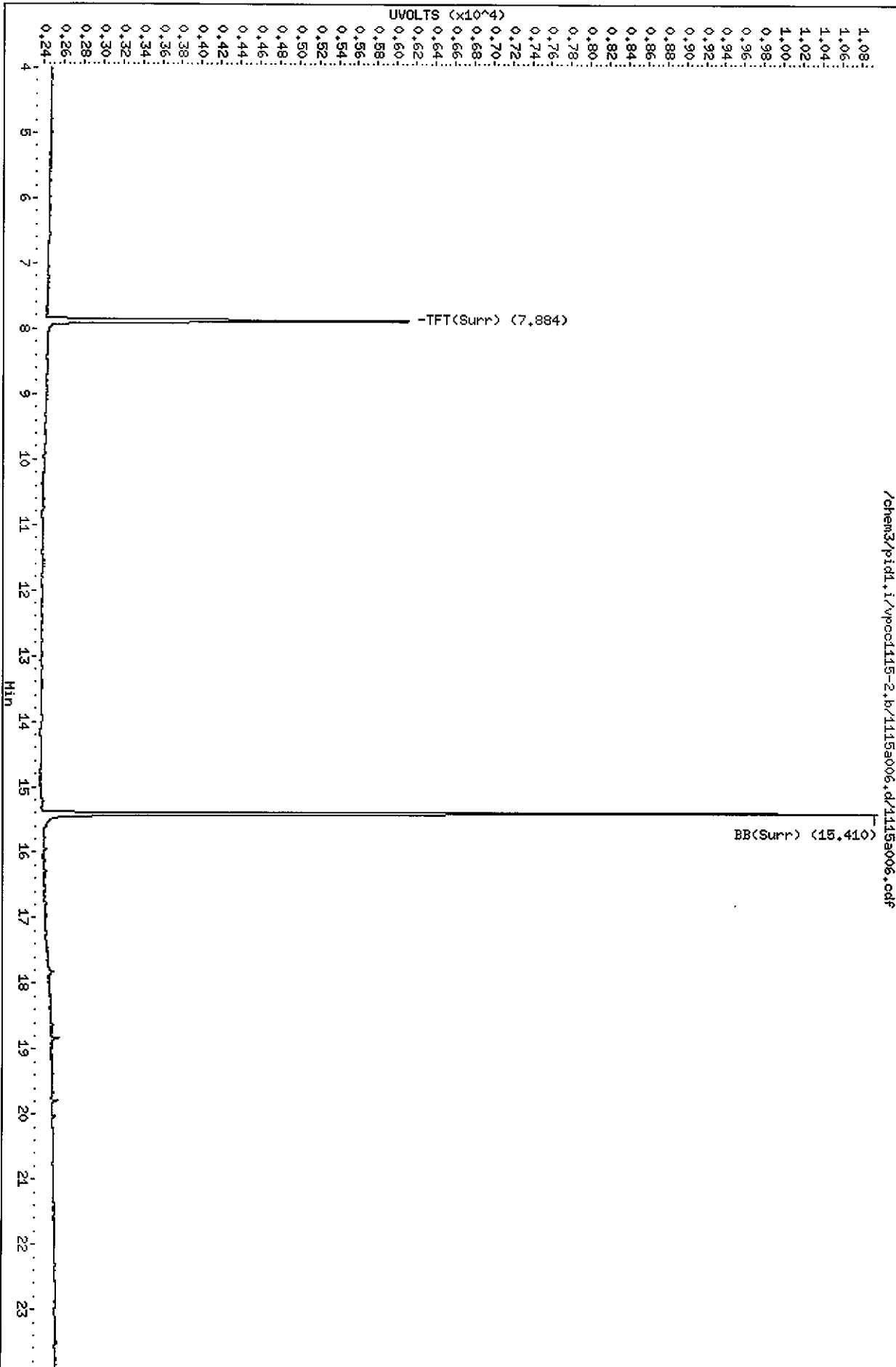
Sample Info: HB1115

Column phase: RTX 502-2 PID

Instrument: pid1.i

Operator: HH

Column diameter: 0.18



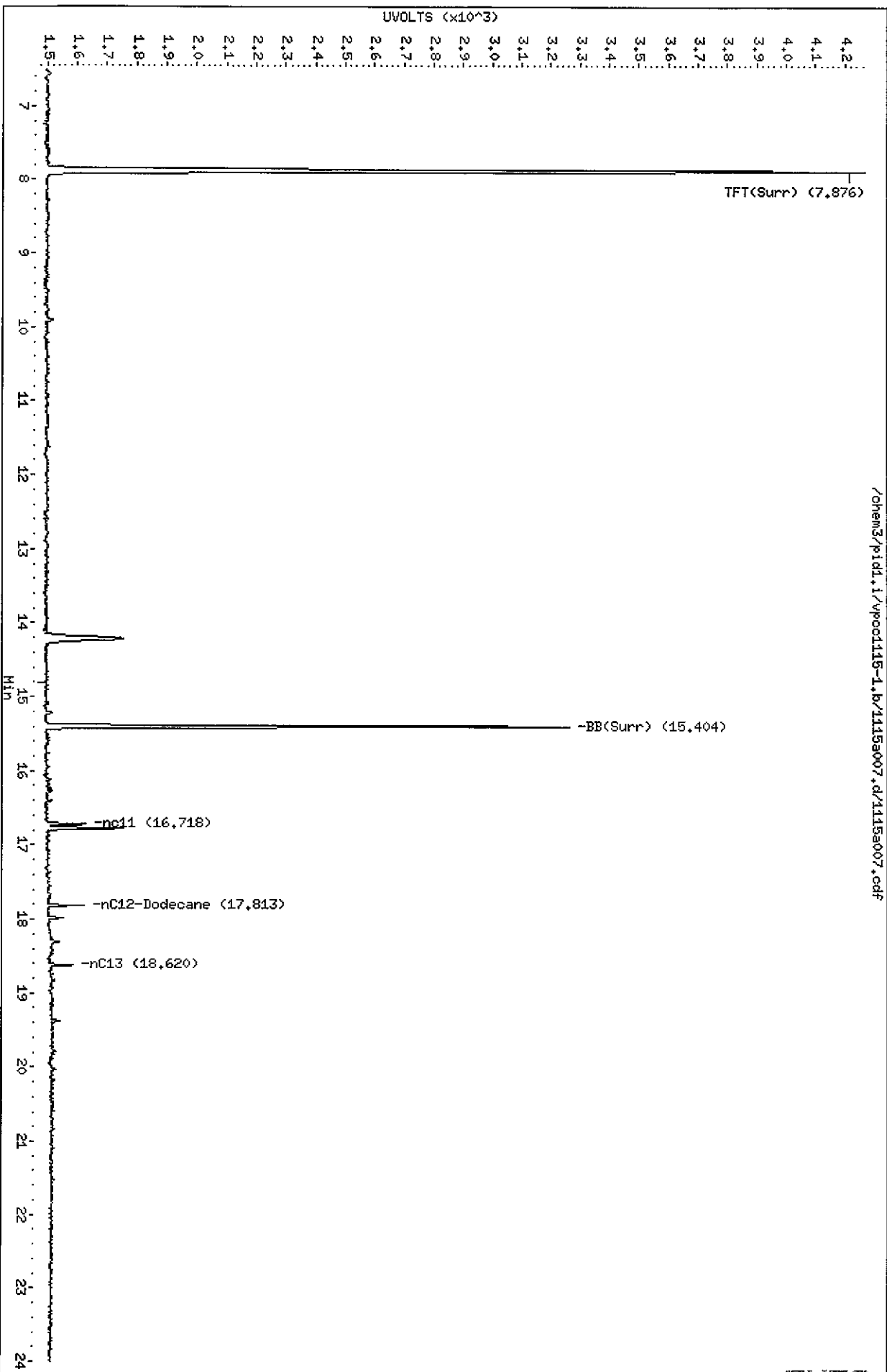
/chem3/pid1.i/vpoc1115-2.b/1115a006.d/1115a006.cdf

00204 00204

Data File: /chem3/pid1.i/vpoc1115-1.b/1115a007.d
Date: 15-NOV-2011 08:53
Client ID: KJ-B06-3
Sample Info: TMS9R

Column phase: RTX 502-2 FID

Instrument: pid1.i
Operator: HH
Column diameter: 0.18



1115A007.D

Data File: /chem3/pid1.i/vpcc1115-2.b/1115a007.d

Date: 15-NOV-2011 08:53

Client ID: KJ-B56-3

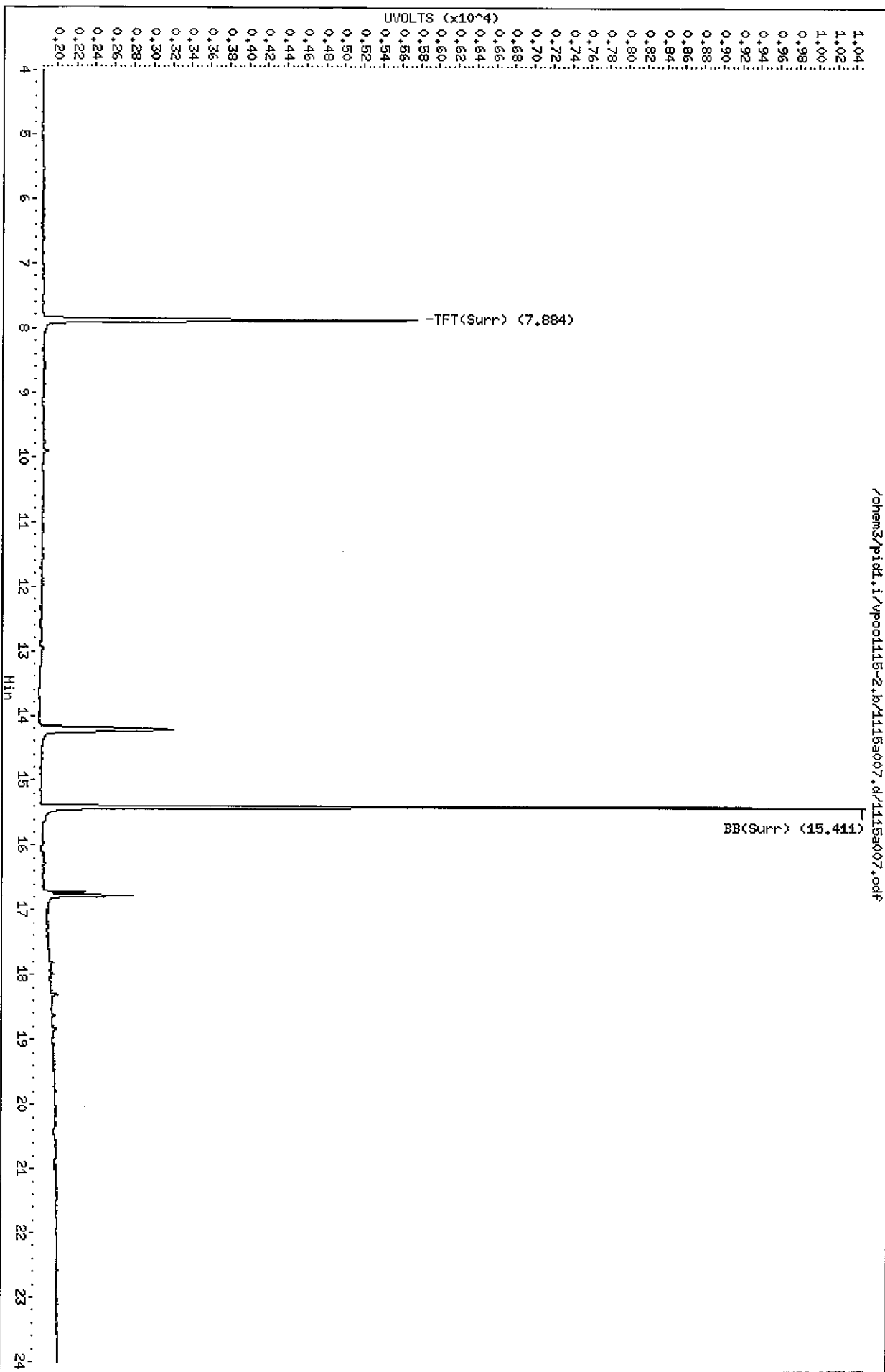
Sample Info: TM59R

Column phase: RTX 502-2 PID

Instrument: pid1.i

Operator: MH

Column diameter: 0.18



ORGANICS ANALYSIS DATA SHEET

TOTAL DIESEL RANGE HYDROCARBONS

NWTPHD by GC/FID-Silica and Acid Cleaned
Page 1 of 1
Matrix: Groundwater

QC Report No: TW56-Kennedy Jenks Consultants
Project: Ecology Cornet Bay
1196012*00

Data Release Authorized: *MW*
Reported: 11/16/11

ARI ID	Sample ID	Extraction Date	Analysis Date	EFV DL	Range	RL	Result
MB-111411 11-26179	Method Blank HC ID: ---	11/14/11	11/15/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	0.10 0.20	< 0.10 U < 0.20 U 105%
TW56A 11-26179	KJ-B47-RGW HC ID: ---	11/14/11	11/15/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	0.12 0.24	< 0.12 U < 0.24 U 90.7%
TW56B 11-26180	KJ-B46-RGW HC ID: ---	11/14/11	11/15/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	0.10 0.20	< 0.10 U < 0.20 U 82.2%
TW56C 11-26181	KJ-B48-RGW HC ID: ---	11/14/11	11/15/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	0.10 0.20	< 0.10 U < 0.20 U 75.2%
TW56D 11-26182	KJ-B53-RGW HC ID: ---	11/14/11	11/15/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	0.10 0.20	< 0.10 U < 0.20 U 98.0%
TW56E 11-26183	KJ-B55-RGW HC ID: DIESEL	11/14/11	11/15/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	0.10 0.20	0.94 < 0.20 U 105%

Reported in mg/L (ppm)

EFV-Effective Final Volume in mL.
DL-Dilution of extract prior to analysis.
RL-Reporting limit.

Diesel quantitation on total peaks in the range from C12 to C24.
Motor Oil quantitation on total peaks in the range from C24 to C38.
HC ID: DRO/RRO indicate results of organics or additional hydrocarbons in ranges are not identifiable.

ORGANICS ANALYSIS DATA SHEET
 NWTPHD by GC/FID-Silica and Acid Cleaned
 Page 1 of 1

Sample ID: LCS-111411
 LCS/LCSD

Lab Sample ID: LCS-111411
 LIMS ID: 11-26179
 Matrix: Groundwater
 Data Release Authorized: *mw*
 Reported: 11/16/11

QC Report No: TW56-Kennedy Jenks Consultants
 Project: Ecology Cornet Bay
 1196012*00
 Date Sampled: 11/10/11
 Date Received: 11/11/11

Date Extracted LCS/LCSD: 11/14/11

Sample Amount LCS: 500 mL
 LCSD: 500 mL

Date Analyzed LCS: 11/15/11 17:29
 LCSD: 11/15/11 17:53

Final Extract Volume LCS: 1.0 mL
 LCSD: 1.0 mL

Instrument/Analyst LCS: FID/MS
 LCSD: FID/MS

Dilution Factor LCS: 1.00
 LCSD: 1.00

Range	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Diesel	2.76	3.00	92.0%	2.81	3.00	93.7%	1.8%

TPHD Surrogate Recovery

	LCS	LCSD
o-Terphenyl	100%	100%

Results reported in mg/L
 RPD calculated using sample concentrations per SW846.

CLEANED TPHD SURROGATE RECOVERY SUMMARY

Matrix: Groundwater

QC Report No: TW56-Kennedy Jenks Consultants
Project: Ecology Cornet Bay
1196012*00

<u>Client ID</u>	<u>OTER</u>	<u>TOT OUT</u>
MB-111411	105%	0
LCS-111411	100%	0
LCSD-111411	100%	0
KJ-B47-RGW	90.7%	0
KJ-B46-RGW	82.2%	0
KJ-B48-RGW	75.2%	0
KJ-B53-RGW	98.0%	0
KJ-B55-RGW	105%	0

LCS/MB LIMITS QC LIMITS

(OTER) = o-Terphenyl

(50-150)

(50-150)

Prep Method: SW3510C

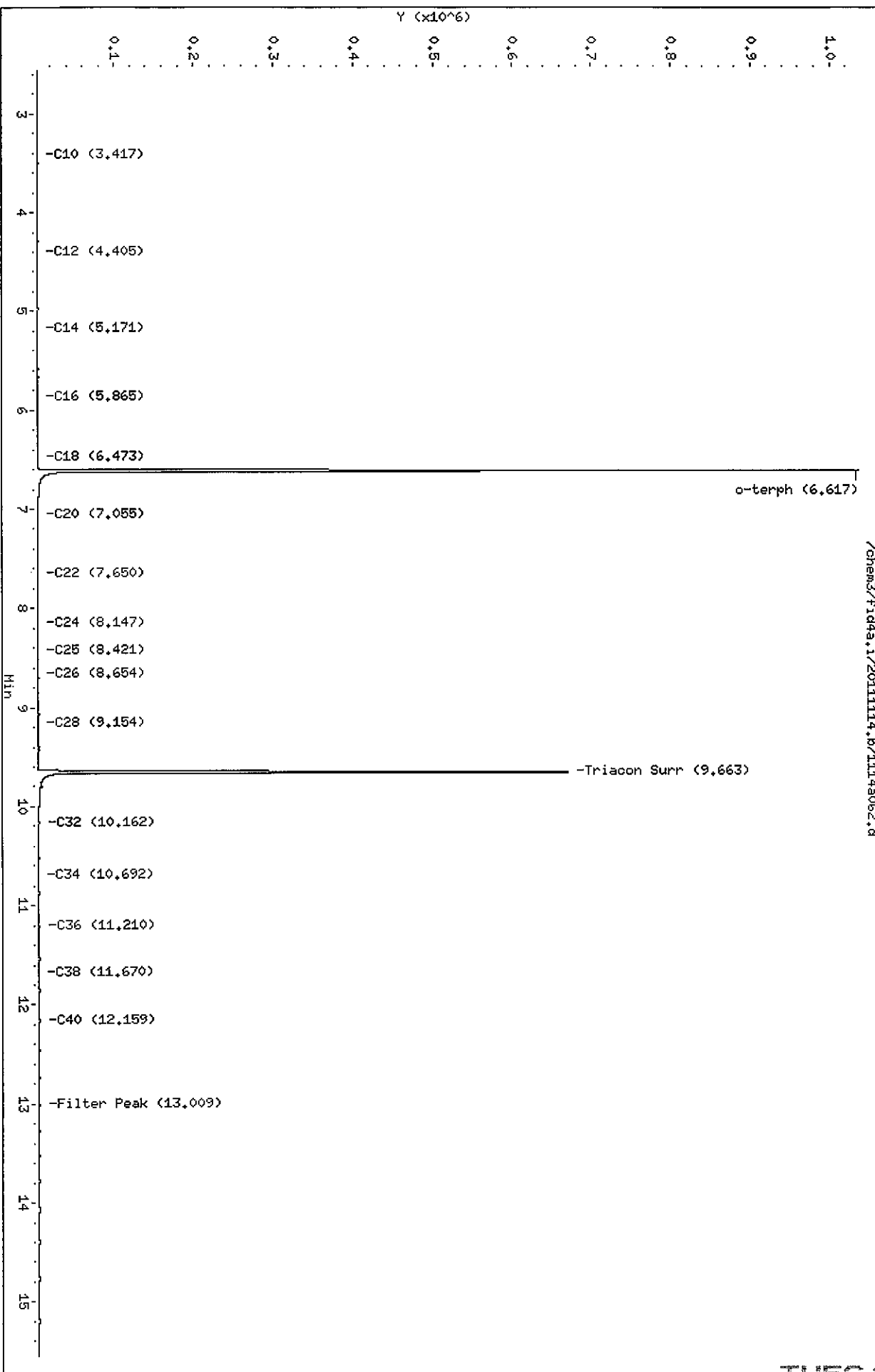
Log Number Range: 11-26179 to 11-26183

TOTAL DIESEL RANGE HYDROCARBONS-EXTRACTION REPORT

Matrix: Groundwater
Date Received: 11/11/11

ARI Job: TW56
Project: Ecology Cornet Bay
1196012*00

ARI ID	Client ID	Samp Amt	Final Vol	Prep Date
11-26179-111411MB1	Method Blank	500 mL	1.00 mL	11/14/11
11-26179-111411LCS1	Lab Control	500 mL	1.00 mL	11/14/11
11-26179-111411LCSD1	Lab Control Dup	500 mL	1.00 mL	11/14/11
11-26179-TW56A	KJ-B47-RGW	410 mL	1.00 mL	11/14/11
11-26180-TW56B	KJ-B46-RGW	500 mL	1.00 mL	11/14/11
11-26181-TW56C	KJ-B48-RGW	500 mL	1.00 mL	11/14/11
11-26182-TW56D	KJ-B53-RGW	500 mL	1.00 mL	11/14/11
11-26183-TW56E	KJ-B55-RGW	500 mL	1.00 mL	11/14/11



11:50:00241

Data File: /chem3/fid4a.i/20111114.b/11149060.d

Date: 15-NOV-2011 17:29

Client ID: TMS6LCSM1

Sample Info: TMS6LCSM1

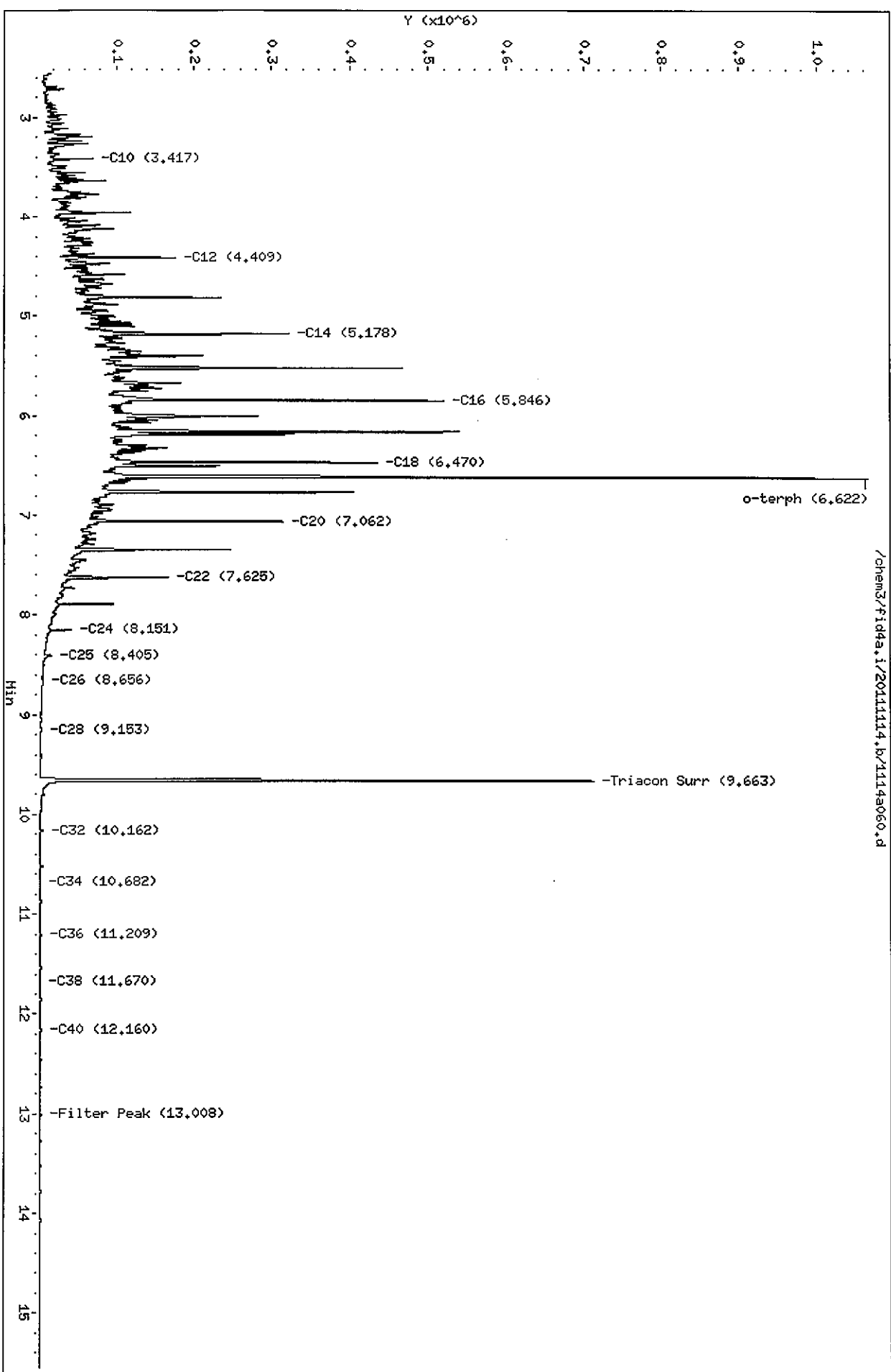
Column phase: RTX-1

Instrument: fid4a.i

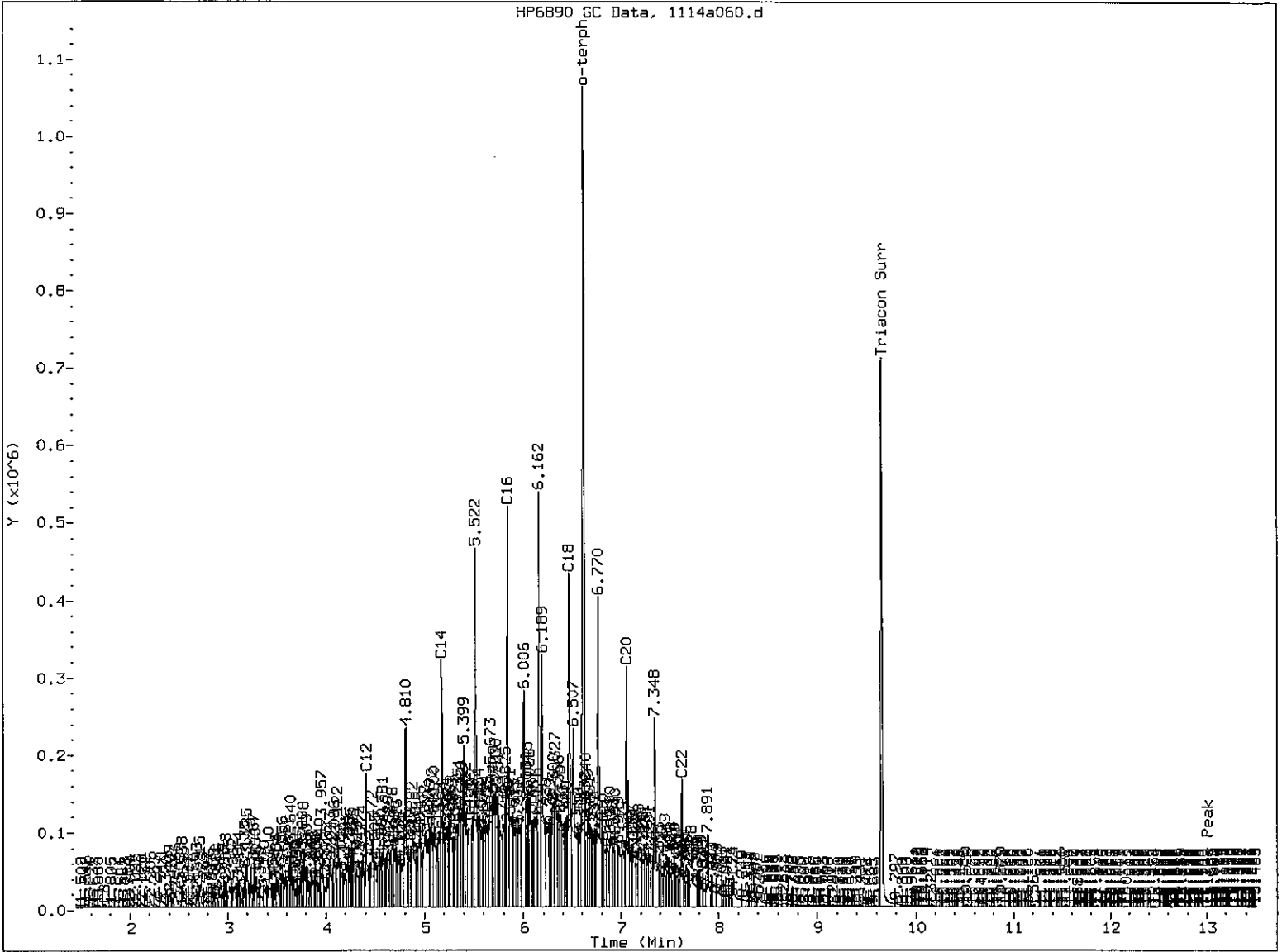
Operator: MS

Column diameter: 0.25

/chem3/fid4a.i/20111114.b/11149060.d



HP6890 GC Data, 1114a060.d



MANUAL INTEGRATION

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: _____

Date: _____

Data File: /chem3/fid4a.i/20111114.b/1114a061.d

Date: 15-NOV-2011 17:53

Client ID: TMB6LCSM4

Sample Info: TMB6LCSM4

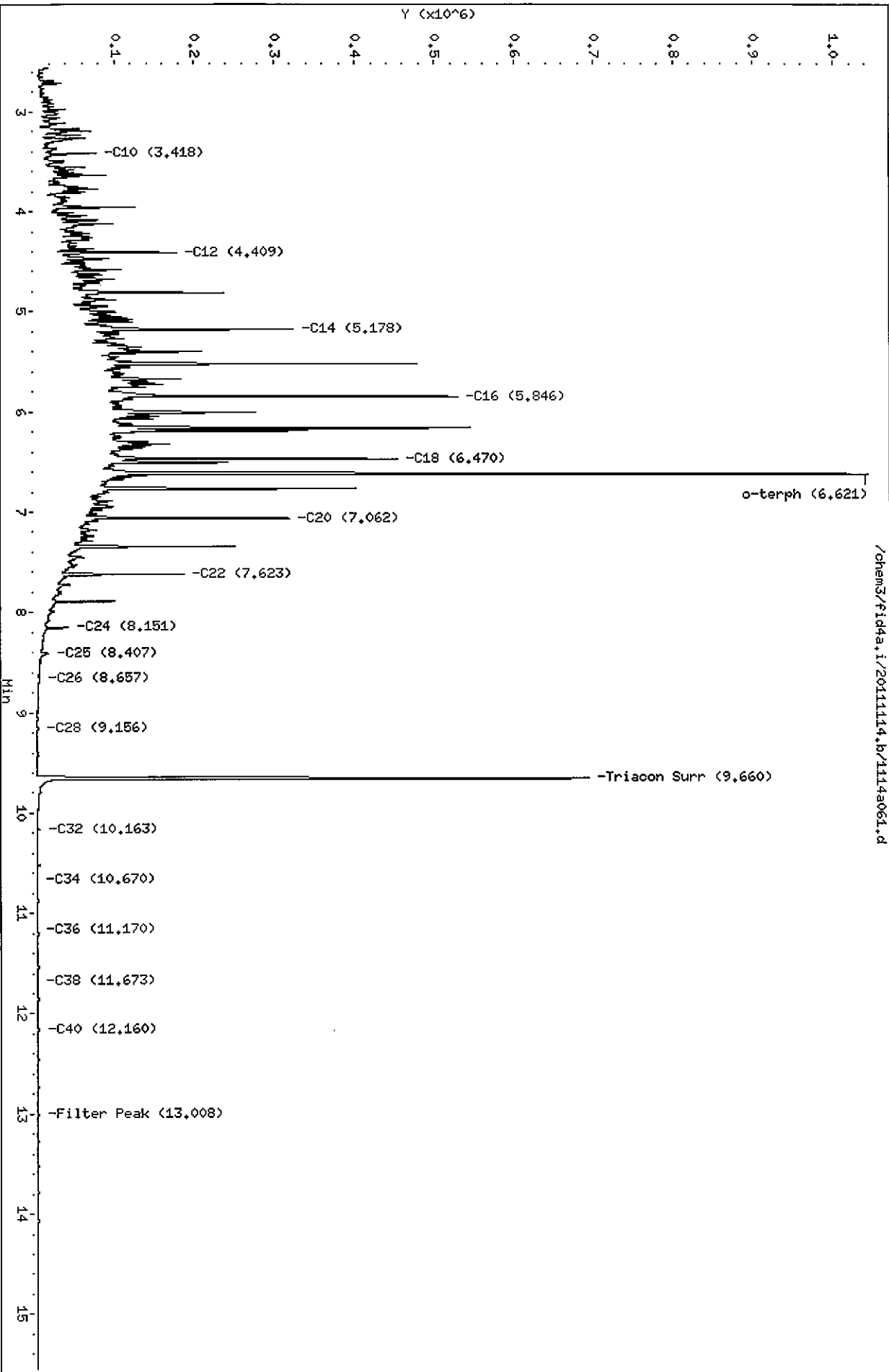
Column phase: RTX-1

Instrument: fid4a.i

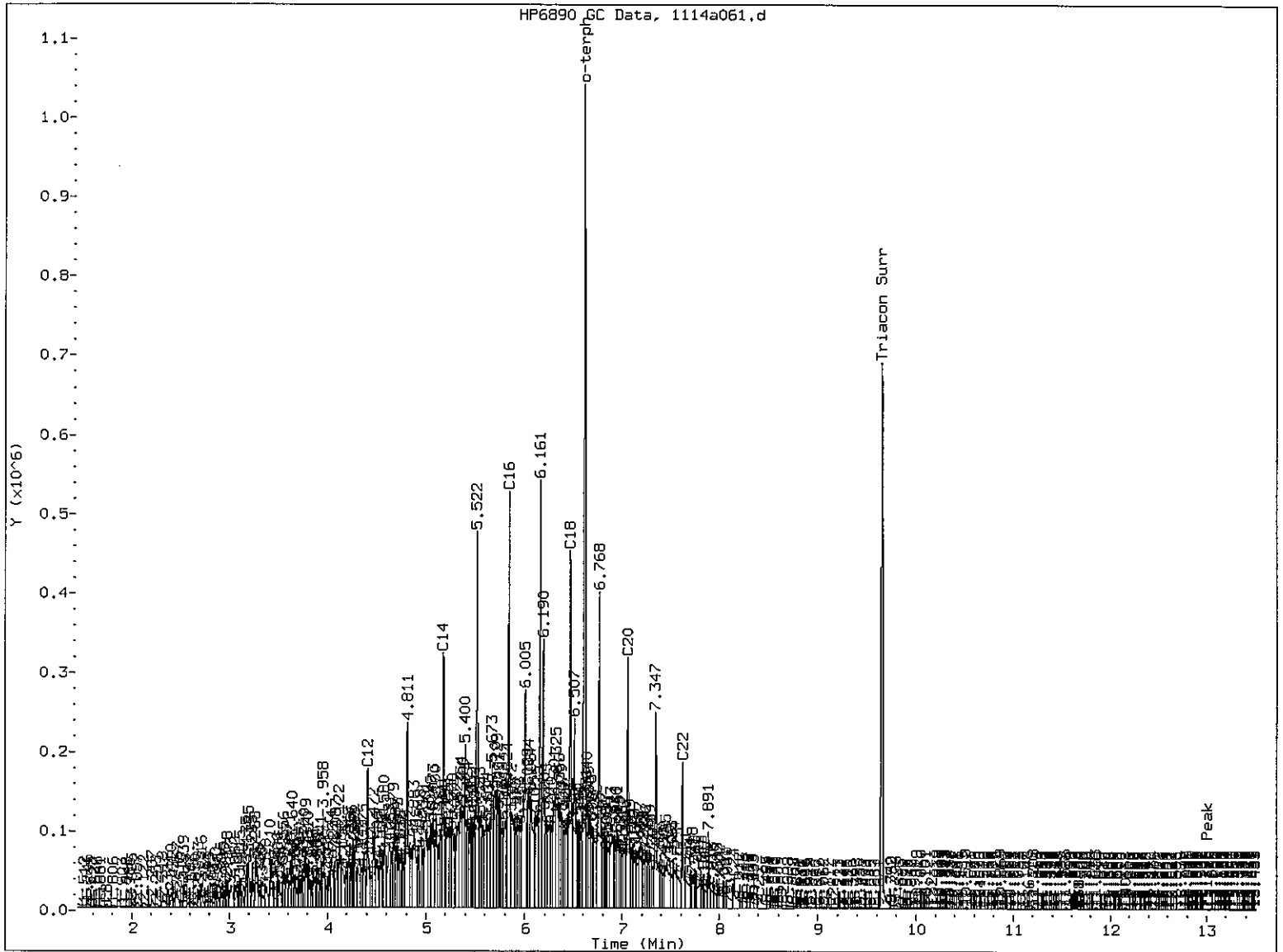
Operator: HS

Column diameter: 0.25

Page 1



TW50 : 00244



MANUAL INTEGRATION

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

5. Other _____

Analyst: *[Signature]*

Date: *4/10/74*

Data File: /chem3/fid4a.i/20111114.b/1114a052.d

Date: 15-NOV-2011 14:22

Client ID: K3-B47-RGM

Sample Info: TW56A

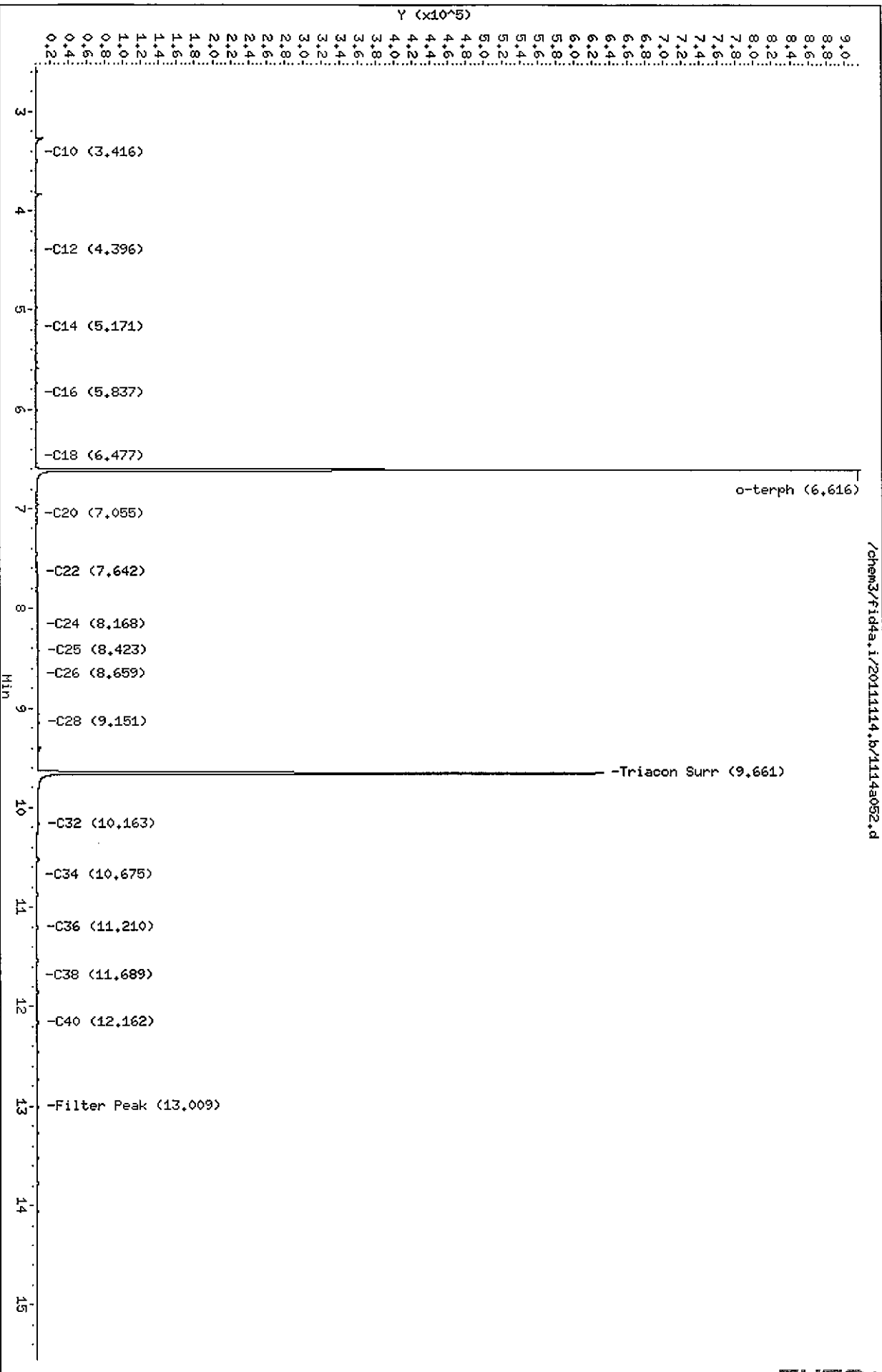
Column phase: RTX-1

Instrument: fid4a.i

Operator: HS

Column diameter: 0.25

Page 1



TW56:00246

Data File: /chem3/fid4a.i/20111114.b/1144053.d

Date: 15-NOV-2011 14:45

Client ID: KJ-B46-RGM

Sample Info: TMS6B

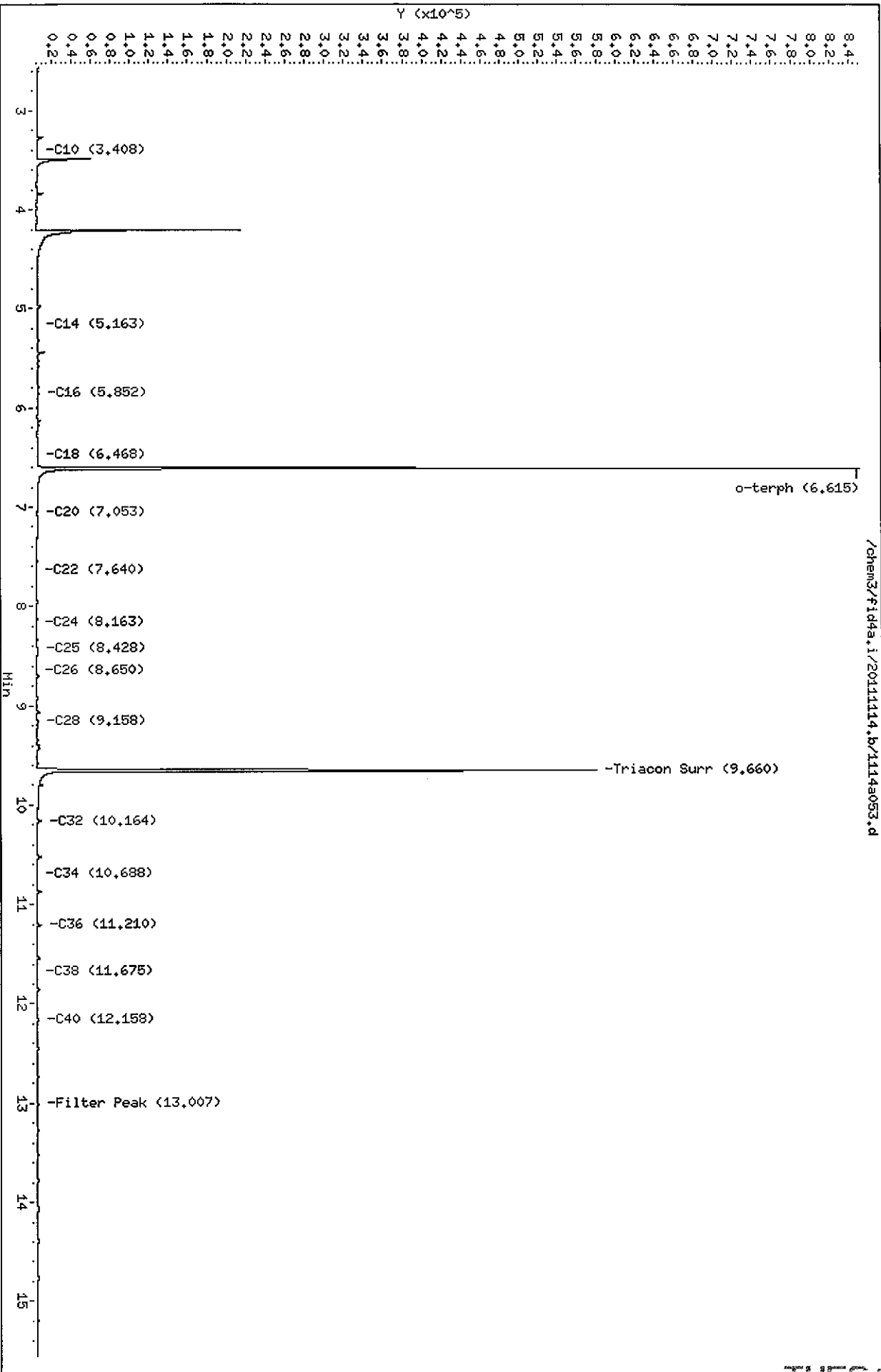
Column phase: RTX-1

Instrument: fid4a.i

Operator: HS

Column diameter: 0.25

Page 1



TW50: 00217

Data File: /chem3/fid4a.i/20111114.b/11149054.d

Date : 15-NOV-2011 15:09

Client ID: KJ-B48-RGM

Sample Info: TMS6C

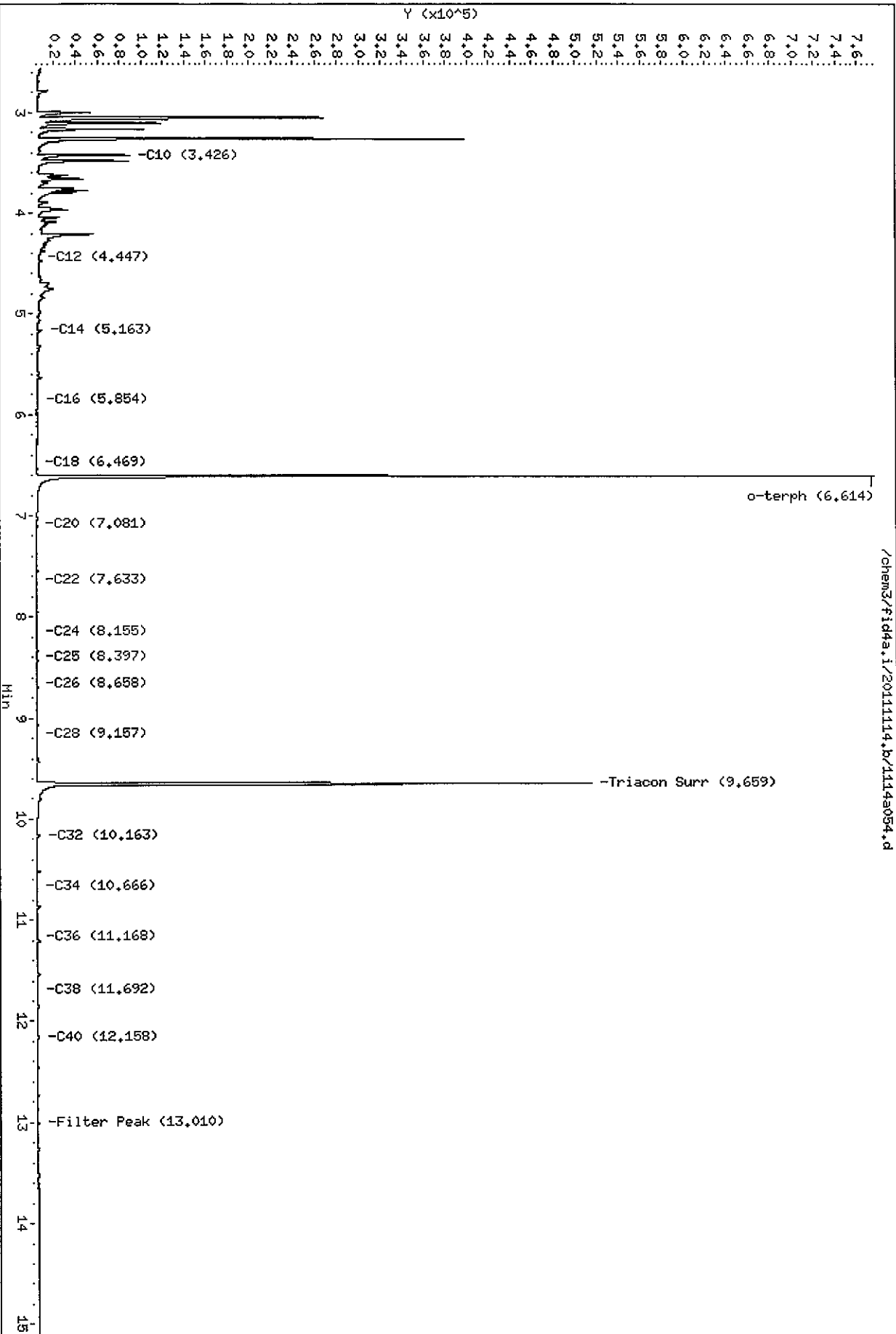
Column phase: RTX-1

Instrument: fid4a.i

Operator: HS

Column diameter: 0.25

Page 1



TW50: 00248

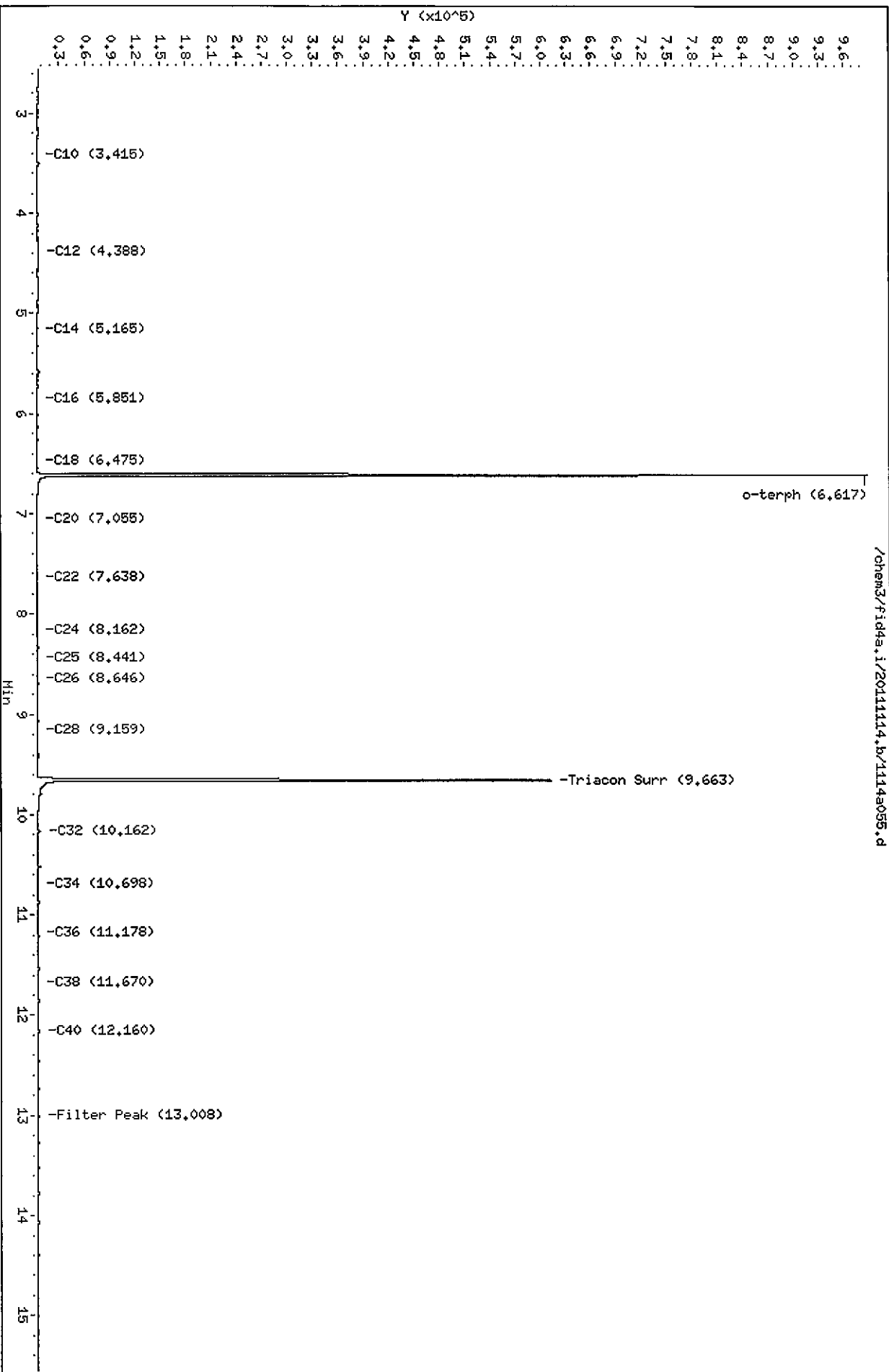
Column phase: RTX-1

Instrument: fid4a.i

Operator: HS

Column diameter: 0.25

/chem3/fid4a.i/20111114.b/1114a055.d



Data File: /chem3/fid4a.i/20111114.b/1114a056.d

Date: 15-NOV-2011 15:56

Client ID: K3-B95-RGM

Sample Infol: TMB6E

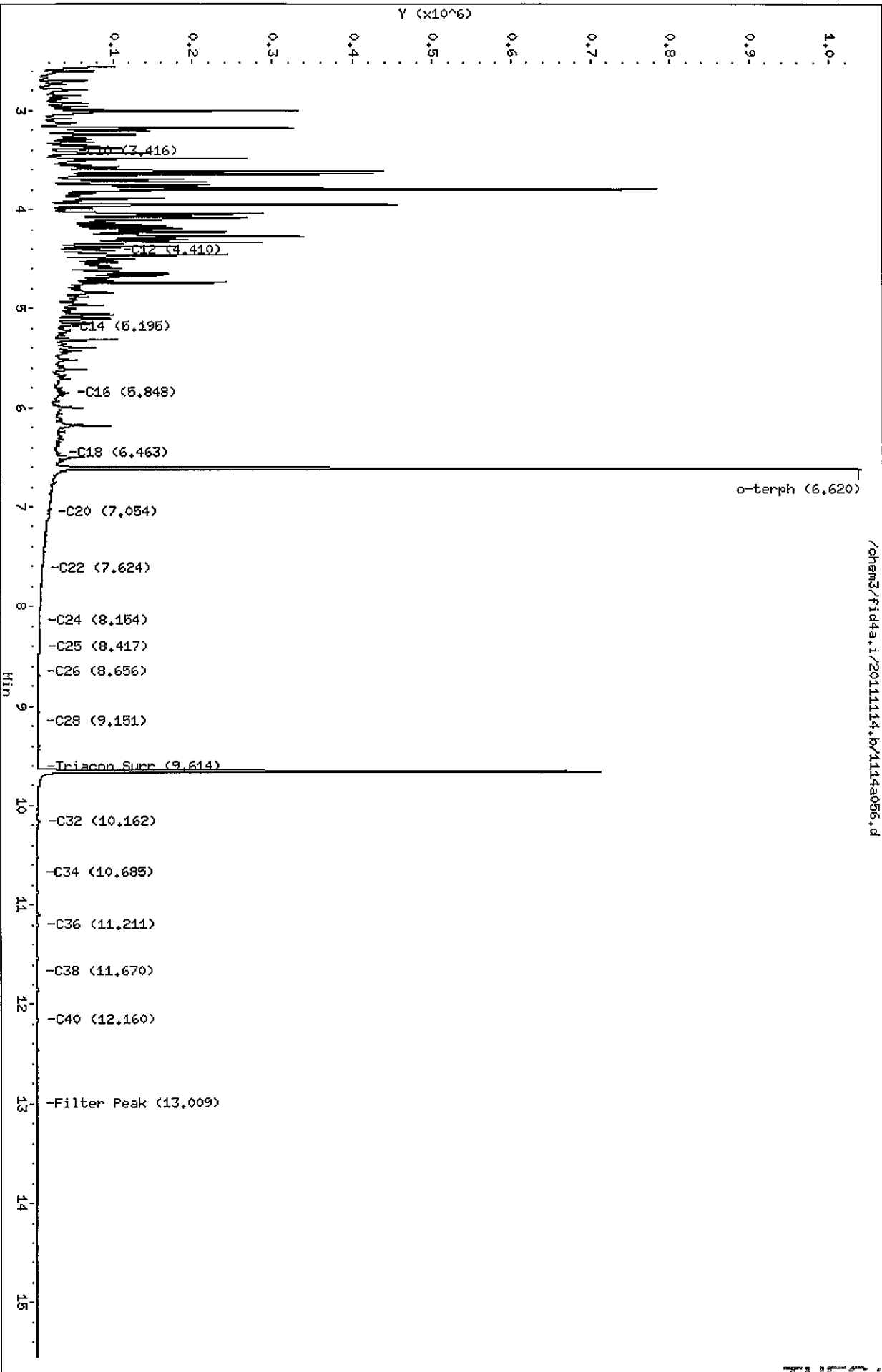
Column phase: RTX-1

Instrument: fid4a.i

Operator: HS

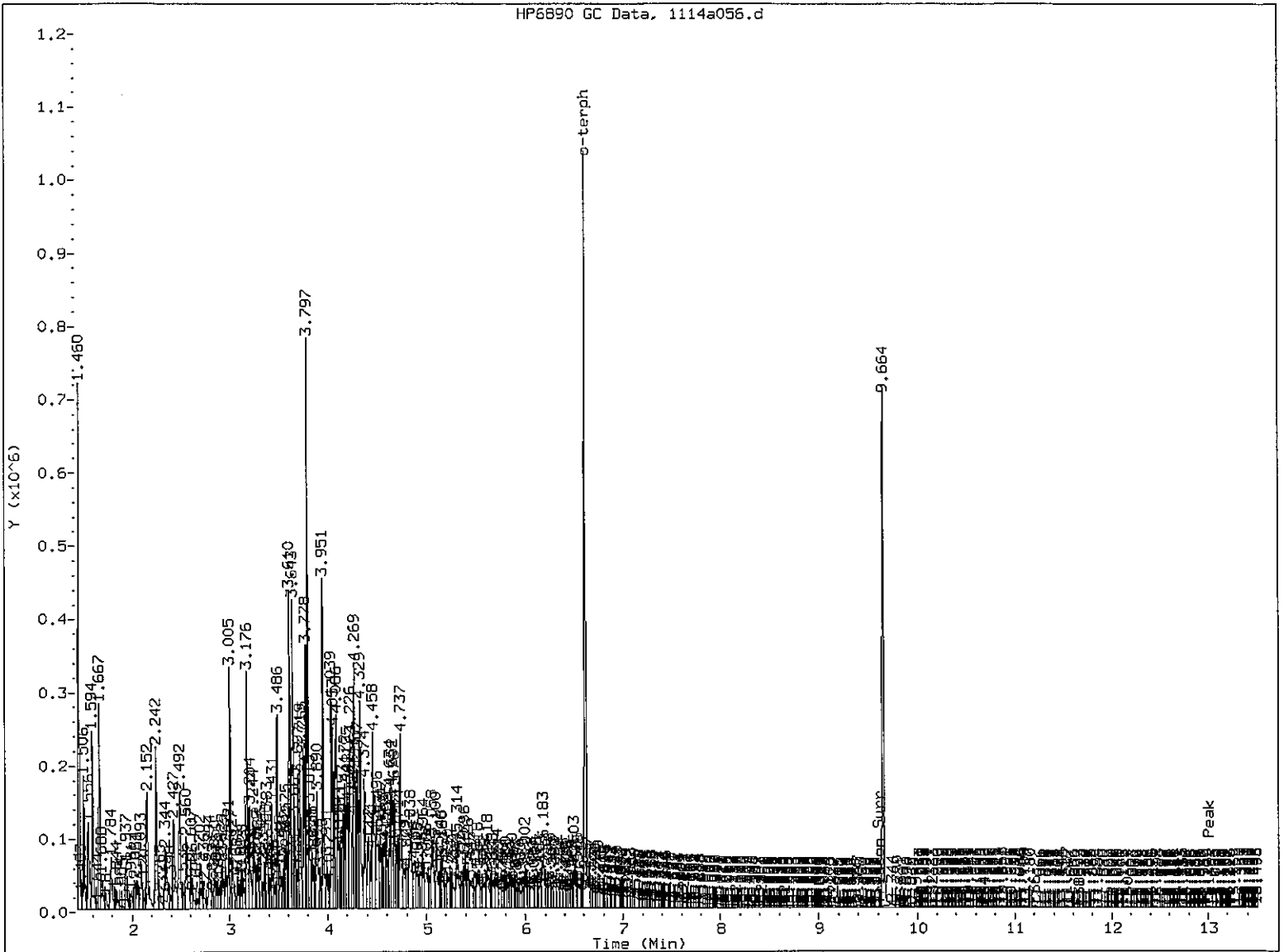
Column diameter: 0.25

Page 1



TW50: 00250

HP6890 GC Data, 1114a056.d



MANUAL INTEGRATION

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

5. Other _____

Analyst: *[Signature]*

Date: *11/10/74*

ORGANICS ANALYSIS DATA SHEET

TOTAL DIESEL RANGE HYDROCARBONS

NWTPHD by GC/FID-Silica and Acid Cleaned
Page 1 of 1
Matrix: Water

QC Report No: TW57-Kennedy Jenks Consultants
Project: Ecology Cornet Bay
1196012*00

Data Release Authorized: *TW*
Reported: 11/16/11

ARI ID	Sample ID	Extraction Date	Analysis Date	EFV DL	Range	RL	Result
MB-111411 11-26184	Method Blank HC ID: ---	11/14/11	11/15/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	0.10 0.20	< 0.10 U < 0.20 U 105%
TW57A 11-26184	MW-8 HC ID: ---	11/14/11	11/15/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	0.10 0.20	< 0.10 U < 0.20 U 105%
TW57B 11-26185	MW-10 HC ID: ---	11/14/11	11/15/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	0.10 0.20	< 0.10 U < 0.20 U 106%
TW57C 11-26186	MW-9 HC ID: ---	11/14/11	11/15/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	0.10 0.20	< 0.10 U < 0.20 U 101%

Reported in mg/L (ppm)

EFV-Effective Final Volume in mL.
DL-Dilution of extract prior to analysis.
RL-Reporting limit.

Diesel quantitation on total peaks in the range from C12 to C24.
Motor Oil quantitation on total peaks in the range from C24 to C38.
HC ID: DRO/RRO indicate results of organics or additional hydrocarbons in ranges are not identifiable.

CLEANED TPHD SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: TW57-Kennedy Jenks Consultants
Project: Ecology Cornet Bay
1196012*00

<u>Client ID</u>	<u>OTER</u>	<u>TOT OUT</u>
MB-111411	105%	0
LCS-111411	100%	0
LCSD-111411	100%	0
MW-8	105%	0
MW-10	106%	0
MW-9	101%	0

LCS/MB LIMITS QC LIMITS

(OTER) = o-Terphenyl

(50-150)

(50-150)

Prep Method: SW3510C
Log Number Range: 11-26184 to 11-26186

TOTAL DIESEL RANGE HYDROCARBONS-EXTRACTION REPORT

Matrix: Water
Date Received: 11/11/11

ARI Job: TW57
Project: Ecology Cornet Bay
1196012*00

ARI ID	Client ID	Samp Amt	Final Vol	Prep Date
11-26184-111411MB1	Method Blank	500 mL	1.00 mL	11/14/11
11-26184-111411LCS1	Lab Control	500 mL	1.00 mL	11/14/11
11-26184-111411LCSD1	Lab Control Dup	500 mL	1.00 mL	11/14/11
11-26184-TW57A	MW-8	500 mL	1.00 mL	11/14/11
11-26185-TW57B	MW-10	500 mL	1.00 mL	11/14/11
11-26186-TW57C	MW-9	500 mL	1.00 mL	11/14/11

Data File: /chem3/fid4a.i/20111114.b/1114s062.d

Date: 15-NOV-2011 18:16

Client ID: TMS6HBM1

Sample Info: TMS6HBM1

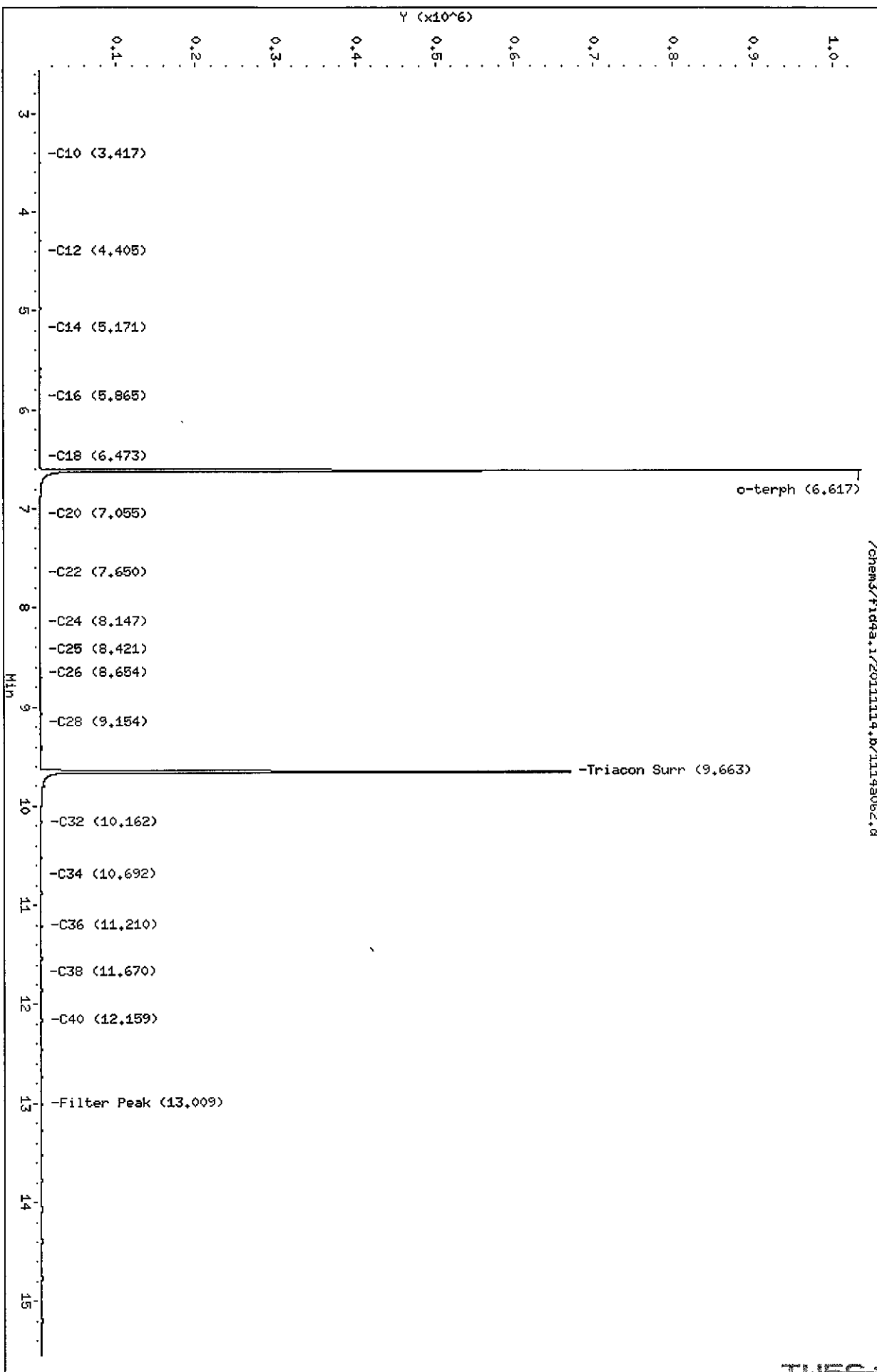
Column phase: RTX-1

Instrument: fid4a.i

Operator: HS

Column diameter: 0.25

Page 1



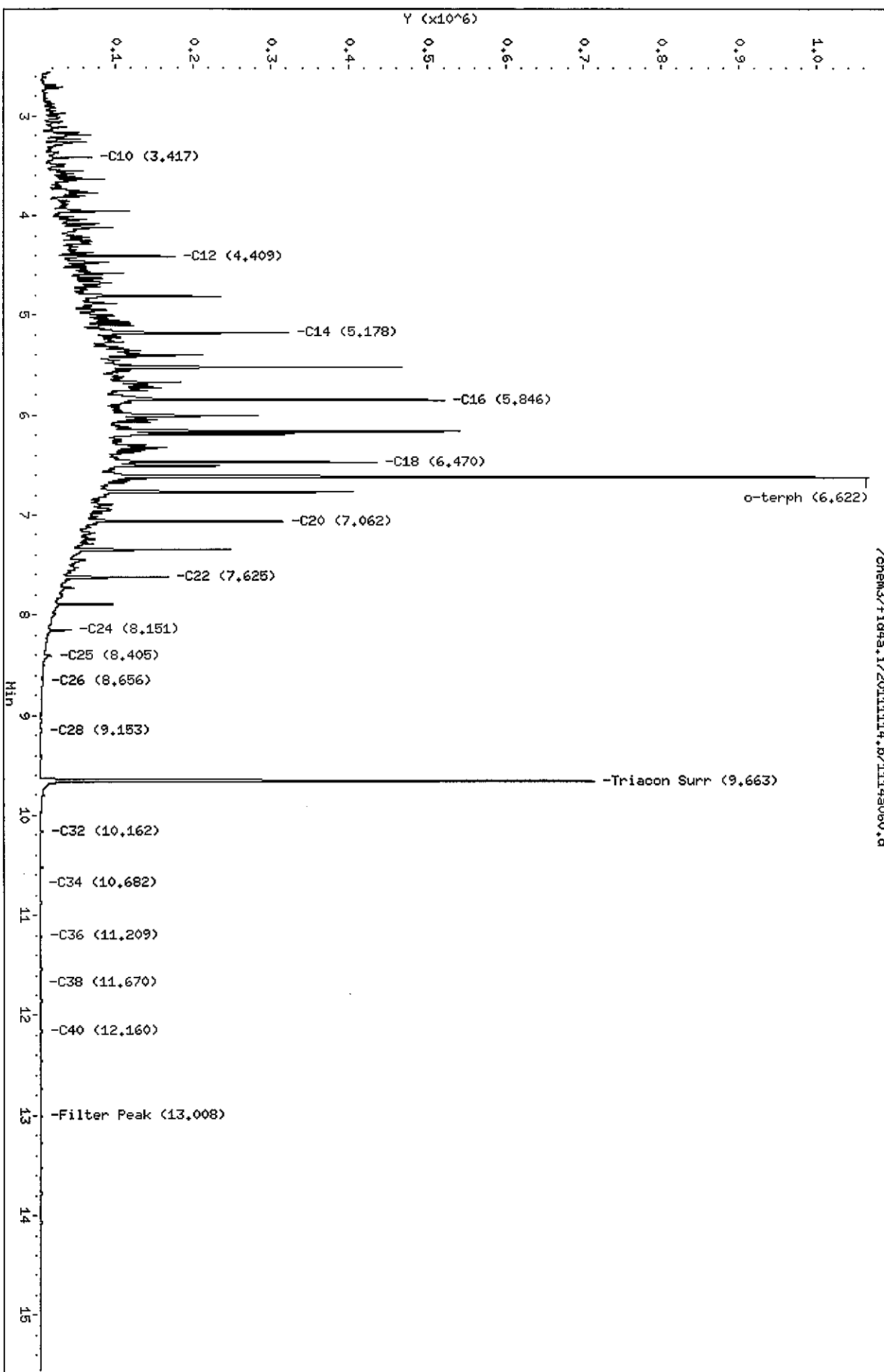
TW50:00256

Data File: /chem3/fid4a.i/20111114.b/11449060.d
Date: 15-NOV-2011 17:29
Client ID: TMS6LCSM1
Sample Info: TMS6LCSM1

Column phase: RTX-1

Instrument: fid4a.i
Operator: HS
Column diameter: 0.25

/chem3/fid4a.i/20111114.b/11449060.d

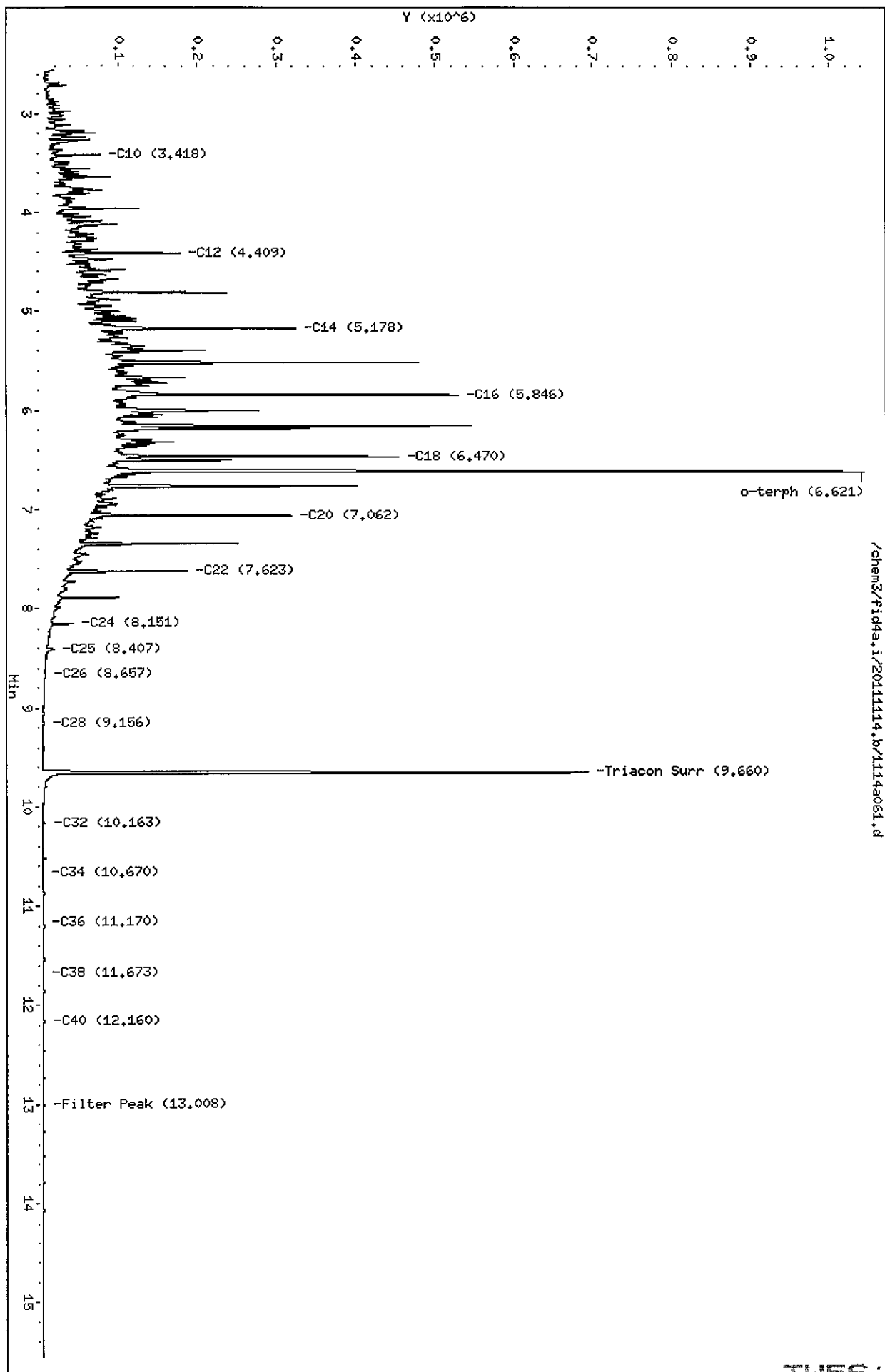


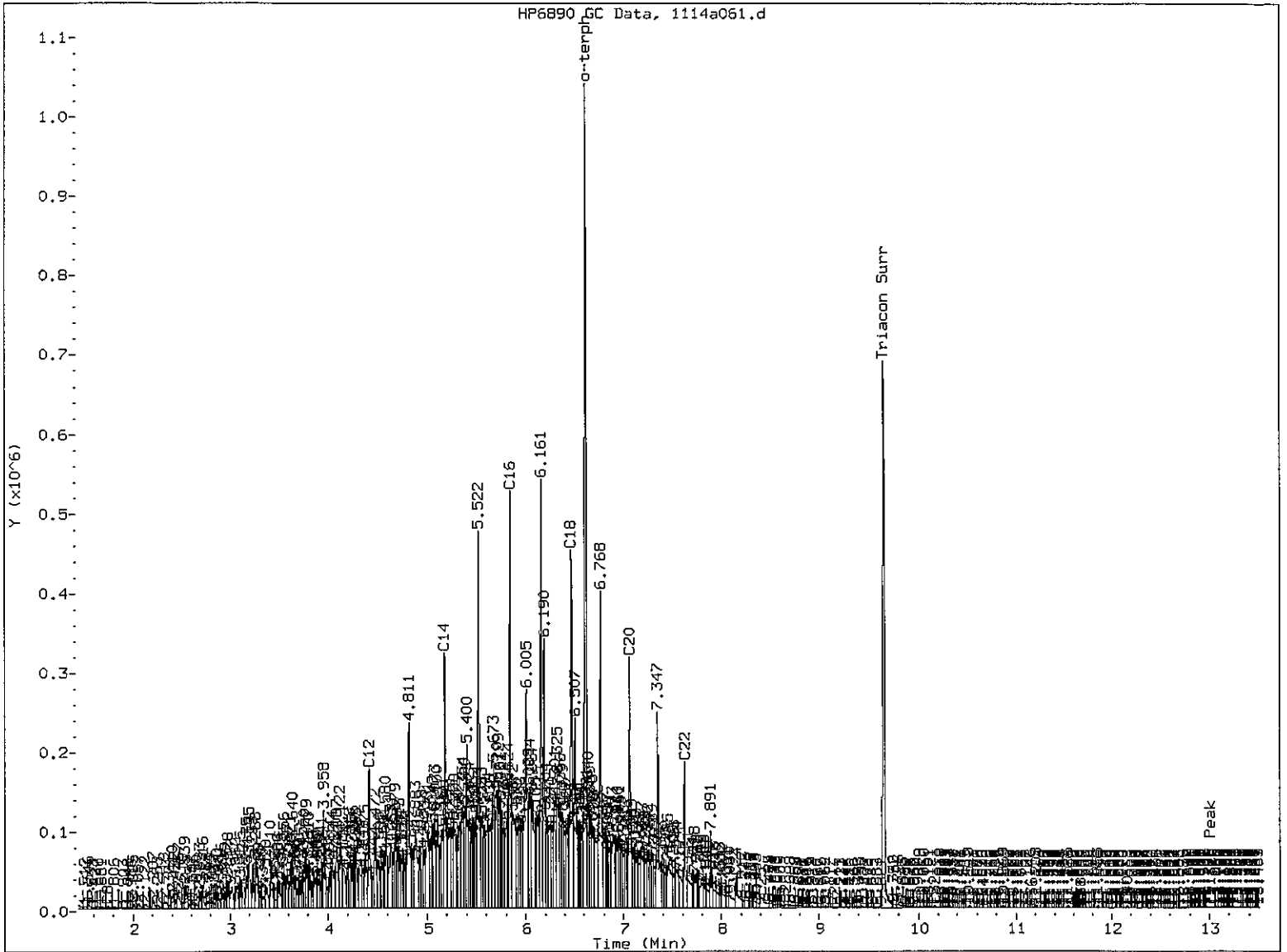
Data File: /chem3/fid4a.i/20111114.b/1114a061.d
Date: 15-NOV-2011 17:53
Client ID: TMS6LCSDM4
Sample Info: TMS6LCSDM4

Column phase: RTX-1

/chem3/fid4a.i/20111114.b/1114a061.d

Instrument: fid4a.i
Operator: HS
Column diameter: 0.25





MANUAL INTEGRATION

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

Analyst: _____

Date: _____

Data File: /chem3/fid4a.i/20111114.b/11445057.d

Date: 15-NOV-2011 16:13

Client ID: HM-8

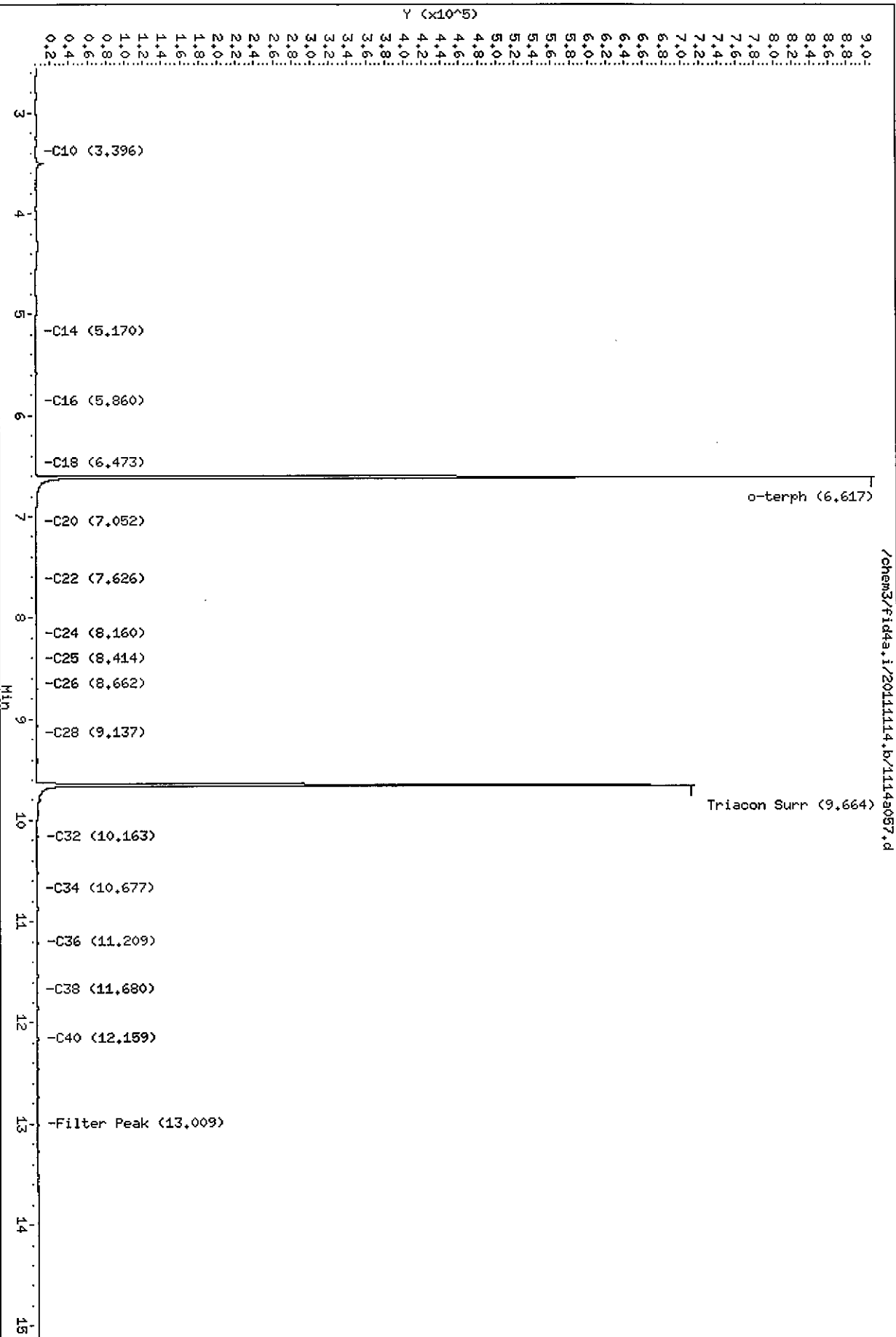
Sample Info: TMS7A

Column phase: RTX-1

Instrument: fid4a.i

Operator: HS

Column diameter: 0.25



11445057 : 00201

Data File: /chem3/fid4a.i/20111114.b/1114s058.d

Date: 15-NOV-2011 16:42

Client ID: HM-10

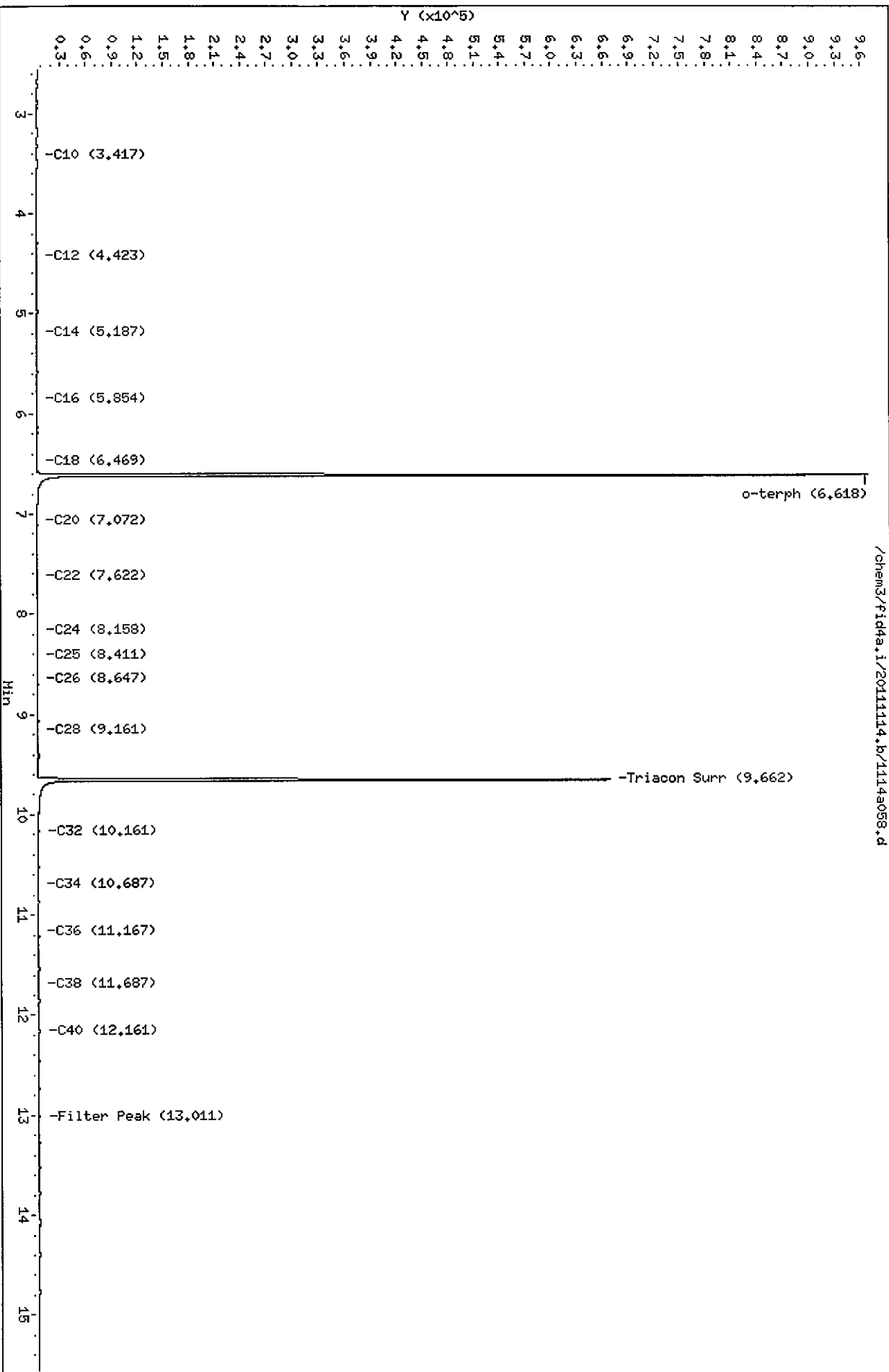
Sample Info: TMS7B

Column phase: RTX-1

Instrument: fid4a.i

Operator: HS

Column diameter: 0.25



Data File: /chem3/fid4a.i/20111114.b/1114a059.d

Date: 15-NOV-2011 17:06

Client ID: MW-9

Sample Info: TW57C

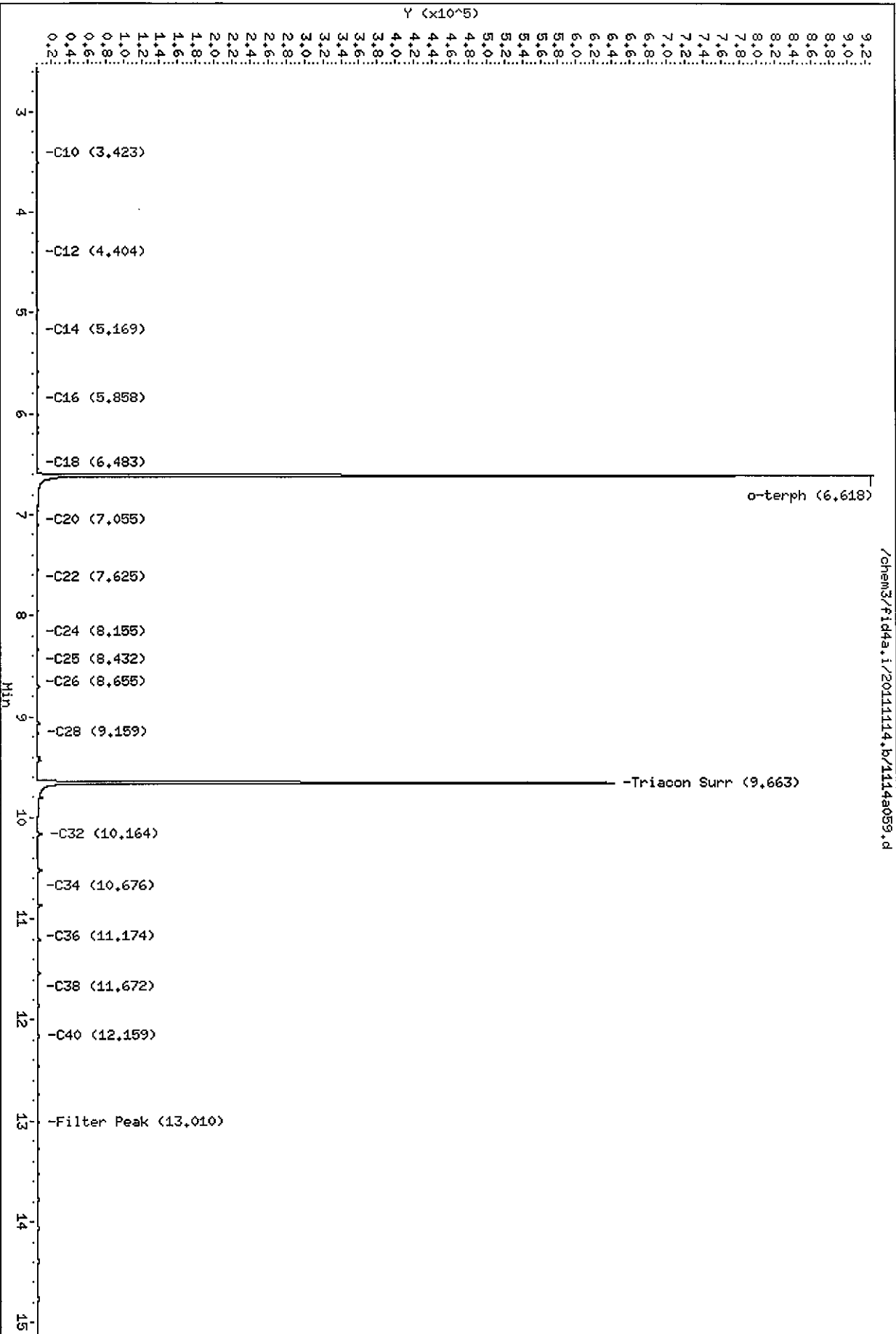
Column phase: RTX-1

Instrument: fid4a.i

Operator: HS

Column diameter: 0.25

Page 1



TW57C : 00263

ORGANICS ANALYSIS DATA SHEET

TOTAL DIESEL RANGE HYDROCARBONS

NWTPHD by GC/FID-Silica and Acid Cleaned
Page 1 of 1
Matrix: Soil

QC Report No: TW58-Kennedy Jenks Consultants
Project: Ecology Cornet Bay
1196012*00

Data Release Authorized: *MW*
Reported: 11/15/11

ARI ID	Sample ID	Extraction Date	Analysis Date	EFV DL	Range	RL	Result
MB-111211 11-26187	Method Blank HC ID: ---	11/12/11	11/15/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	5.0 10	< 5.0 U < 10 U 96.0%
TW58A 11-26187	KJ-B59-2 HC ID: DIESEL	11/12/11	11/15/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	6.3 12	16 < 12 U 83.2%
TW58B 11-26188	KJ-B59-9 HC ID: ---	11/12/11	11/15/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	6.0 12	< 6.0 U < 12 U 92.0%
TW58C 11-26189	KJ-B60-14 HC ID: ---	11/12/11	11/15/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	5.7 12	< 5.7 U < 12 U 89.6%
TW58D 11-26190	KJ-B60-20 HC ID: ---	11/12/11	11/15/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	6.4 13	6.5 < 13 U 84.0%

Reported in mg/kg (ppm)

EFV-Effective Final Volume in mL.

DL-Dilution of extract prior to analysis.

RL-Reporting limit.

Diesel quantitation on total peaks in the range from C12 to C24.

Motor Oil quantitation on total peaks in the range from C24 to C38.

HC ID: DRO/RRO indicate results of organics or additional hydrocarbons in ranges are not identifiable.

ORGANICS ANALYSIS DATA SHEET
 NWTPHD by GC/FID-Silica and Acid Cleaned
 Page 1 of 1

Sample ID: LCS-111211
 LAB CONTROL

Lab Sample ID: LCS-111211
 LIMS ID: 11-26187
 Matrix: Soil
 Data Release Authorized: *MW*
 Reported: 11/15/11

QC Report No: TW58-Kennedy Jenks Consultants
 Project: Ecology Cornet Bay
 1196012*00
 Date Sampled: 11/11/11
 Date Received: 11/11/11

Date Extracted: 11/12/11
 Date Analyzed: 11/15/11 12:48
 Instrument/Analyst: FID/MS

Sample Amount: 10.0 g
 Final Extract Volume: 1.0 mL
 Dilution Factor: 1.0

Range	Lab Control	Spike Added	Recovery
Diesel	144	150	96.0%

TPHD Surrogate Recovery

o-Terphenyl	96.1%
-------------	-------

Results reported in mg/kg

CLEANED TPHD SURROGATE RECOVERY SUMMARY

Matrix: Soil

QC Report No: TW58-Kennedy Jenks Consultants
Project: Ecology Cornet Bay
1196012*00

<u>Client ID</u>	<u>OTER</u>	<u>TOT OUT</u>
MB-111211	96.0%	0
LCS-111211	96.1%	0
KJ-B59-2	83.2%	0
KJ-B59-9	92.0%	0
KJ-B60-14	89.6%	0
KJ-B60-20	84.0%	0

	LCS/MB LIMITS	QC LIMITS
(OTER) = o-Terphenyl	(50-150)	(50-150)

Prep Method: SW3546
Log Number Range: 11-26187 to 11-26190

TOTAL DIESEL RANGE HYDROCARBONS-EXTRACTION REPORT

Matrix: Soil
Date Received: 11/11/11

ARI Job: TW58
Project: Ecology Cornet Bay
1196012*00

ARI ID	Client ID	Client Amt	Final Vol	Basis	Prep Date
11-26187-111211MB1	Method Blank	10.0 g	1.00 mL	-	11/12/11
11-26187-111211LCS1	Lab Control	10.0 g	1.00 mL	-	11/12/11
11-26187-TW58A	KJ-B59-2	7.98 g	1.00 mL	D	11/12/11
11-26188-TW58B	KJ-B59-9	8.37 g	1.00 mL	D	11/12/11
11-26189-TW58C	KJ-B60-14	8.72 g	1.00 mL	D	11/12/11
11-26190-TW58D	KJ-B60-20	7.82 g	1.00 mL	D	11/12/11

Basis: D=Dry Weight W=As Received
Diesel Extraction Report

TW58 : 00267

Data File: /chem3/fid4a.i/20111114.b/1114a049.d

Date: 15-NOV-2011 13:11

Client ID: TMS8HBS1

Sample Info: TMS8HBS1

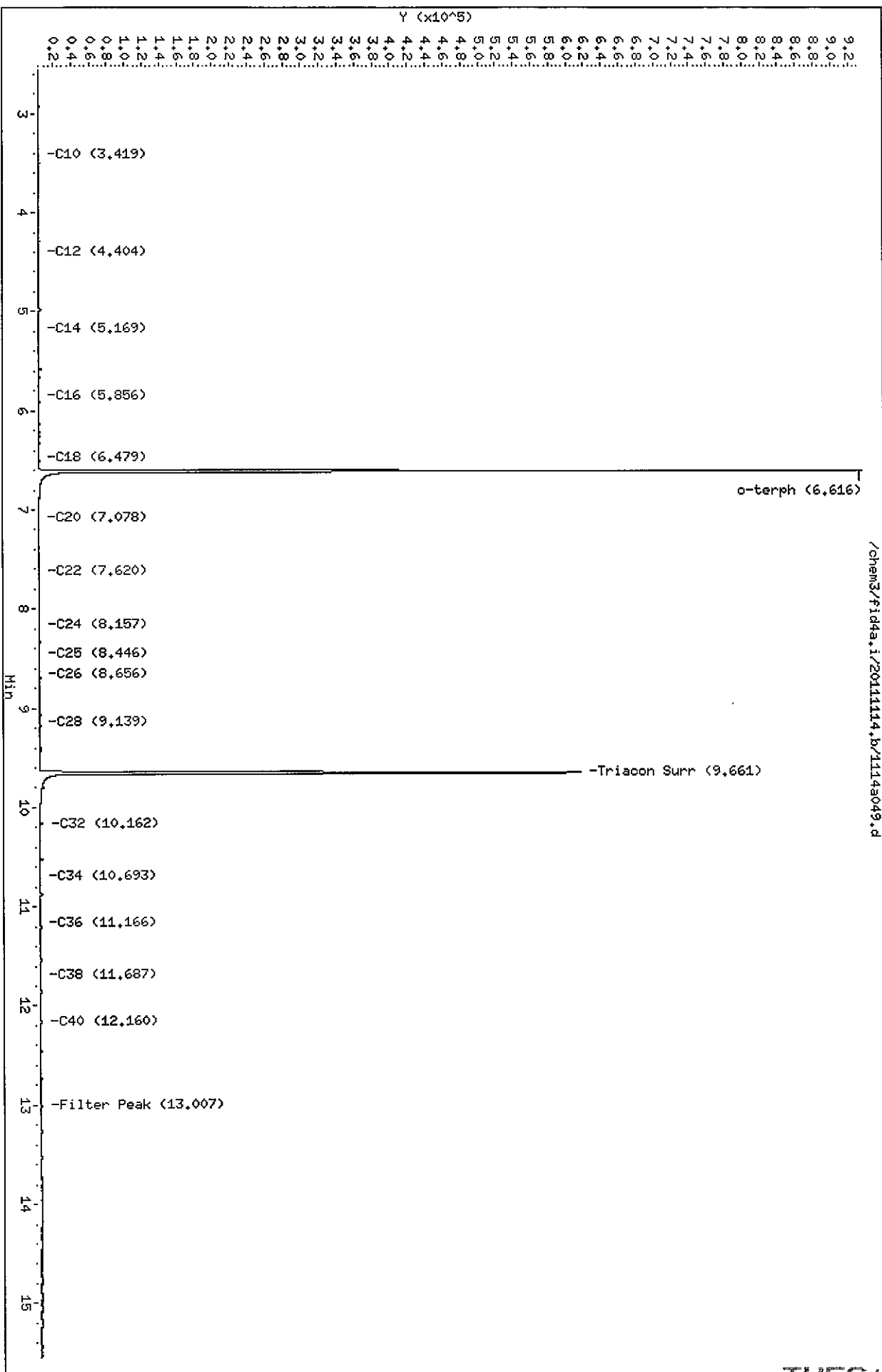
Column phase: RTX-1

Instrument: fid4a.i

Operator: HS

Column diameter: 0.25

/chem3/fid4a.i/20111114.b/1114a049.d



Data File: /chem3/fid4a.i/20111114.b/1114a048.d

Date: 15-NOV-2011 12:48

Client ID: TMS8LCSS1

Sample Info: TMS8LCSS1

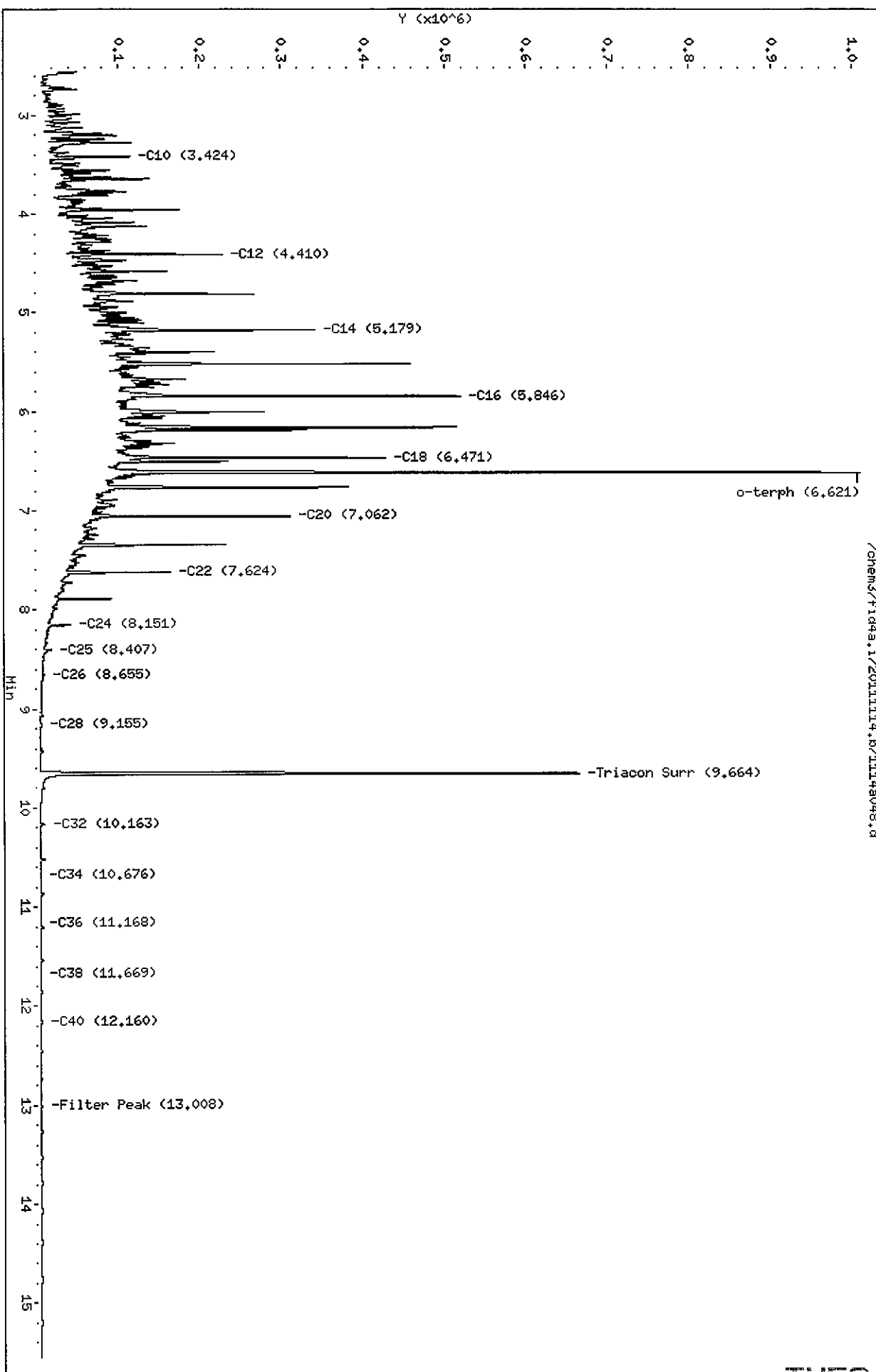
Column phase: RTX-1

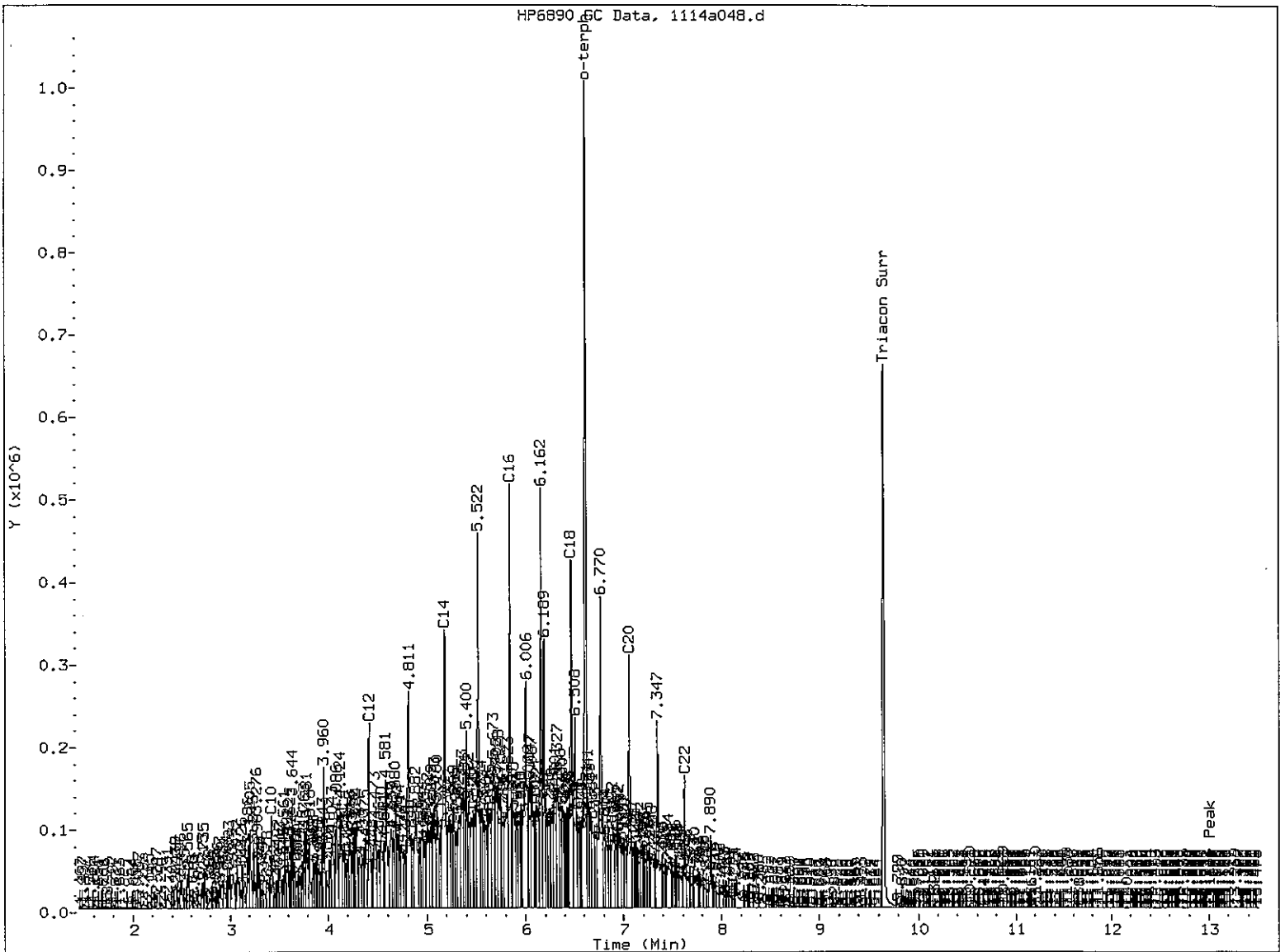
Instrument: fid4a.i

Operator: HS

Column diameter: 0.25

/chem3/fid4a.i/20111114.b/1114a048.d





MANUAL INTEGRATION

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: *[Signature]*

Date: *4/10/74*

Data File: /chem3/fid4a.i/20111114.b/1114a044.d

Date: 15-NOV-2011 14:14

Client ID: KJ-B59-2

Sample Info: TMS89

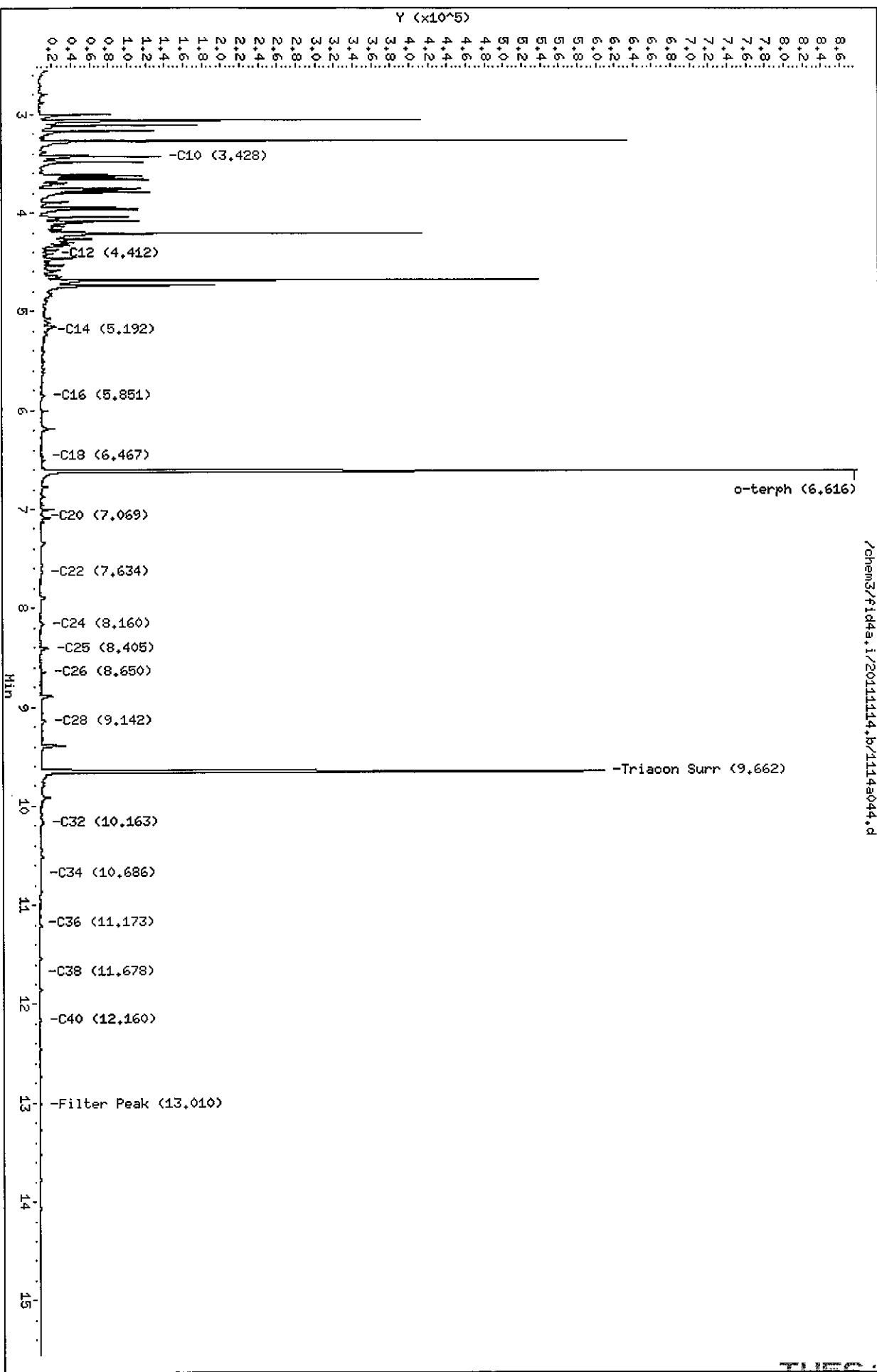
Column phase: RTX-1

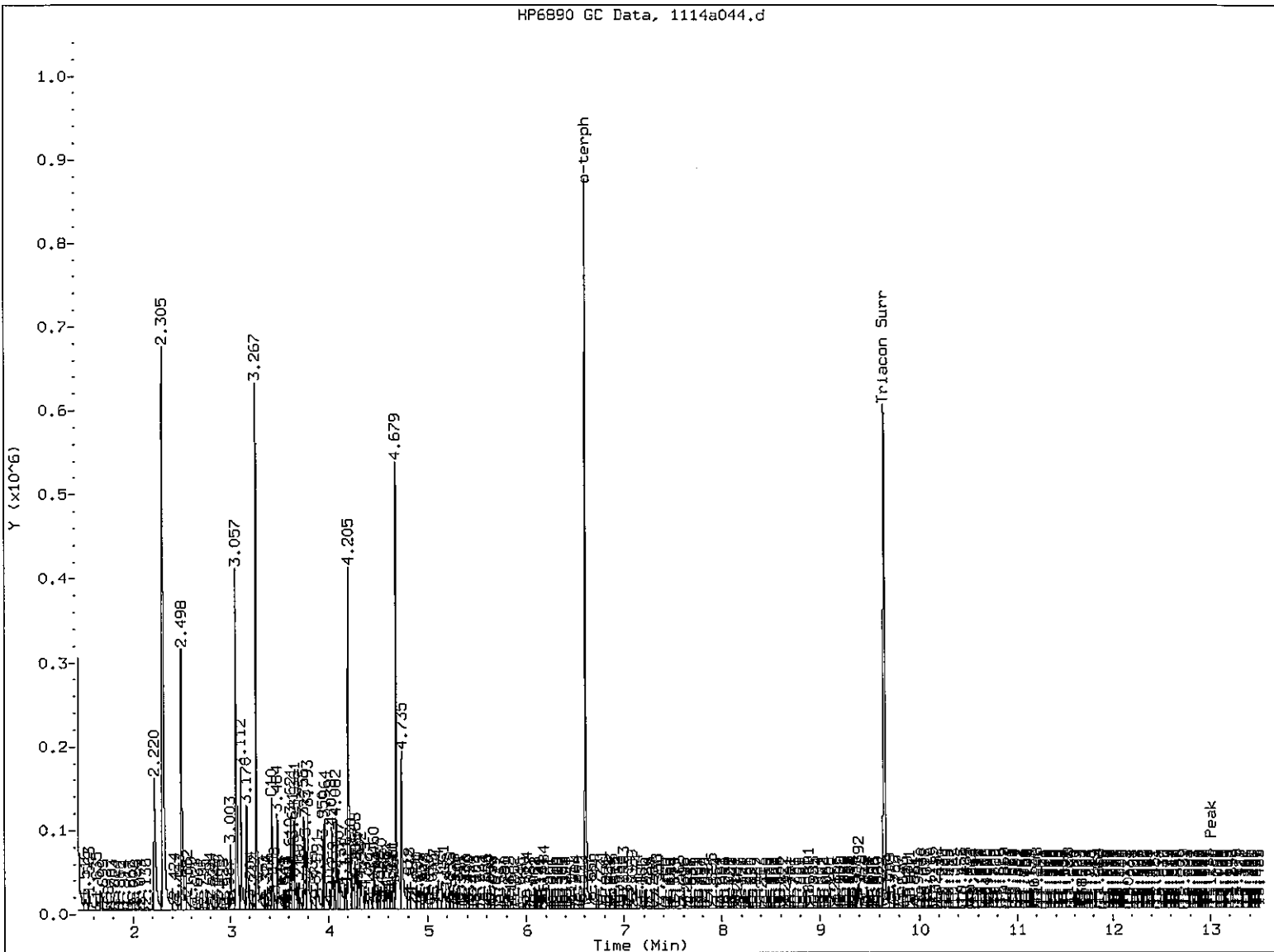
Instrument: fid4a.i

Operator: HS

Column diameter: 0.25

/chem3/fid4a.i/20111114.b/1114a044.d





MANUAL INTEGRATION

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: _____

Date: _____

Data File: /chem3/fid4a.i/20111114.b/1114a045.d

Date: 15-NOV-2011 11:37

Client ID: KJ-B59-9

Sample Info: TMS88

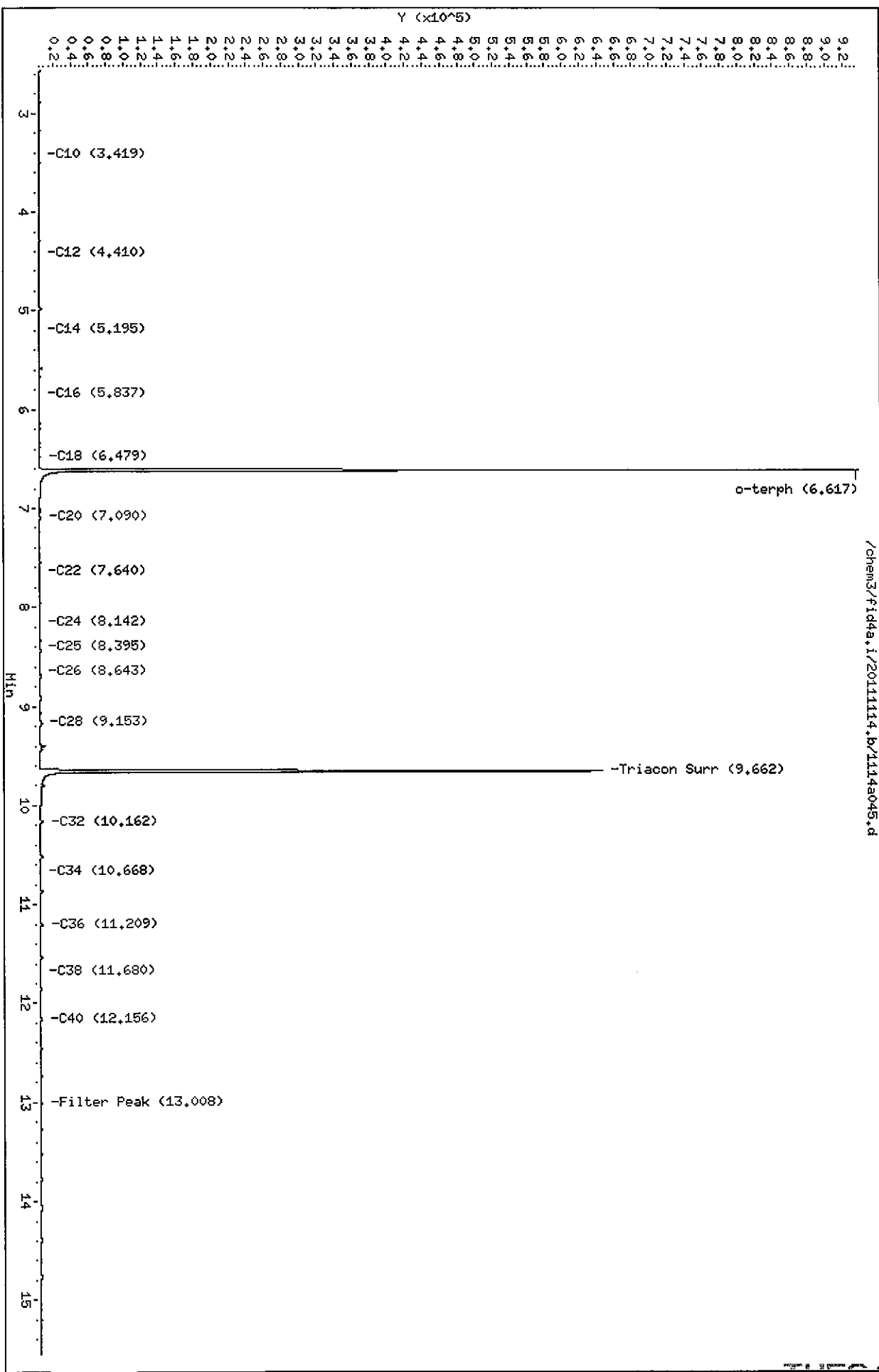
Column phase: RTX-1

Instrument: fid4a.i

Operator: HS

Column diameter: 0.25

Page 1



TW50 00270

Data File: /chem3/fid4a.i/20111114.b/1114a046.d

Date: 15-NOV-2011 12:01

Client ID: KJ-B60-14

Sample Info: TMS9C

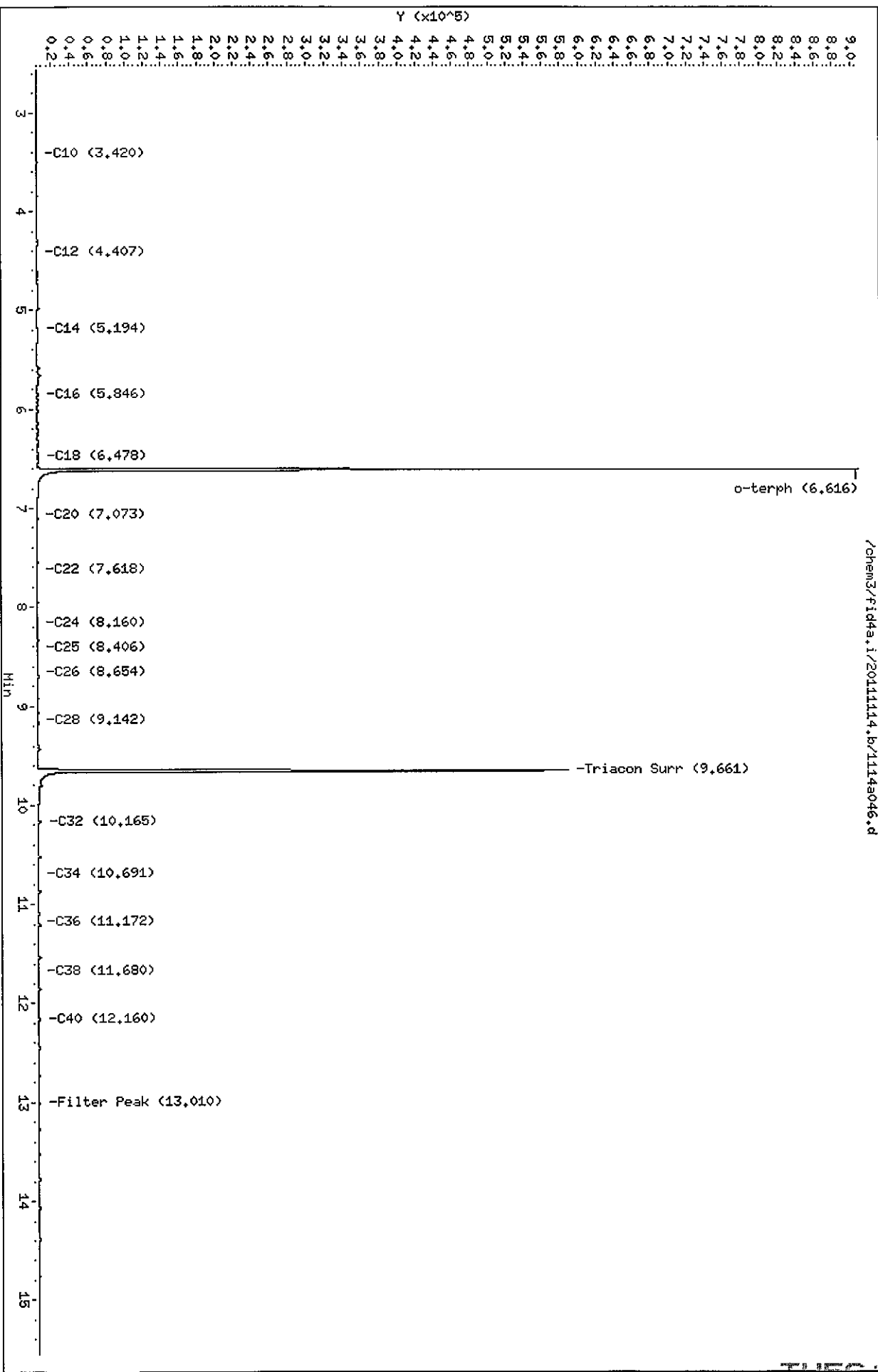
Column phase: RTX-1

Instrument: fid4a.i

Operator: HS

Column diameter: 0.25

/chem3/fid4a.i/20111114.b/1114a046.d



Data File: /chem3/fid4a.i/20111114.b/1144a047.d

Date: 15-NOV-2011 12:24

Client ID: KJ-B60-20

Sample Info: TMS8D

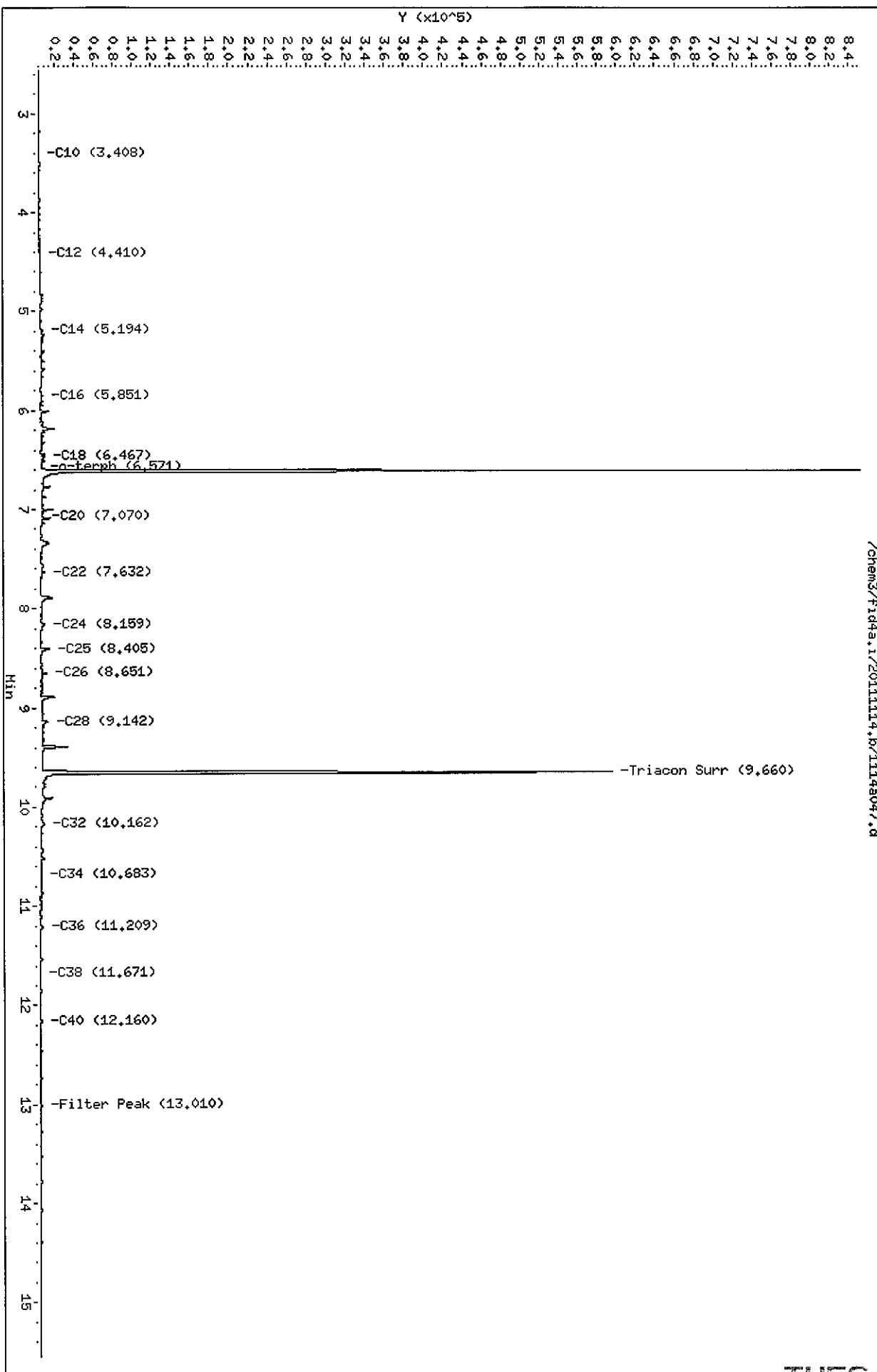
Column phase: RTX-1

Instrument: fid4a.i

Operator: HS

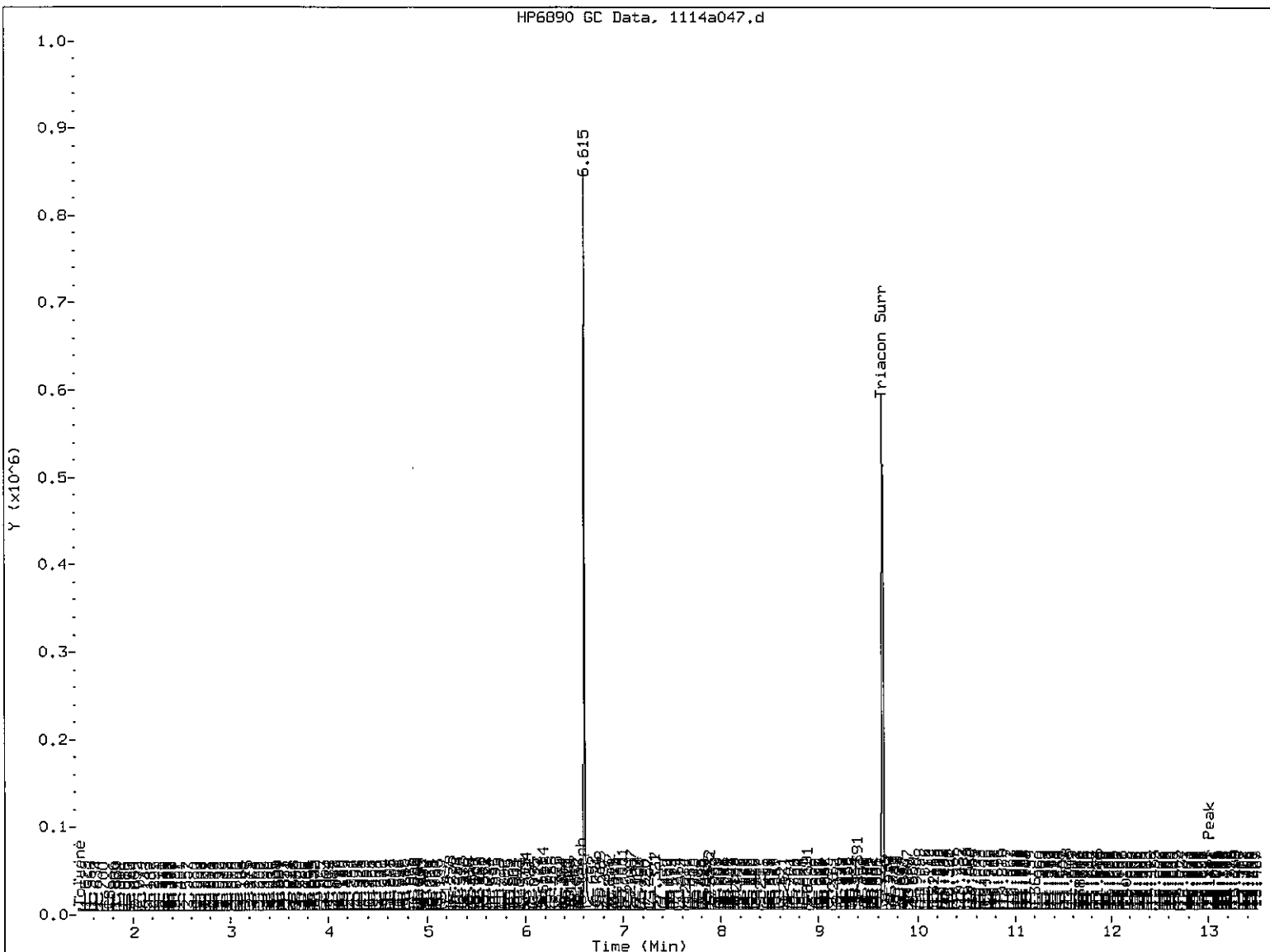
Column diameter: 0.25

Page 1



TW56:00275

HP6890 GC Data, 1114a047.d



MANUAL INTEGRATION

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

5. Other _____

Analyst: *[Signature]*

Date: *[Signature]*

ORGANICS ANALYSIS DATA SHEET

TOTAL DIESEL RANGE HYDROCARBONS

NWTPHD by GC/FID-Silica and Acid Cleaned

Page 1 of 2

Matrix: Soil

QC Report No: TW59-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

1196012*00

Data Release Authorized: *RB*

Reported: 11/15/11

ARI ID	Sample ID	Extraction Date	Analysis Date	EFV DL	Range	RL	Result
TW59A 11-26191	KJ-MW8-7 HC ID: DIESEL/MOTOR OIL	11/12/11	11/14/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	6.2 12	170 370 82.8%
TW59B 11-26192	KJ-MW8-10 HC ID: ---	11/12/11	11/14/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	6.4 13	< 6.4 U < 13 U 97.4%
TW59C 11-26193	KJ-MW9-5 HC ID: MOTOR OIL	11/12/11	11/15/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	6.2 12	< 6.2 U 30 85.6%
TW59D 11-26194	KJ-MW10-6 HC ID: DRO/MOTOR OIL	11/12/11	11/15/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	5.7 12	36 30 82.4%
TW59E 11-26195	KJ-B45-7 HC ID: ---	11/12/11	11/15/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	6.0 12	< 6.0 U < 12 U 91.4%
TW59F 11-26196	KJ-B45-15 HC ID: ---	11/12/11	11/15/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	6.0 12	< 6.0 U < 12 U 97.3%
TW59G 11-26197	KJ-B46-11 HC ID: ---	11/12/11	11/15/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	6.0 12	< 6.0 U < 12 U 97.3%
TW59H 11-26198	KJ-B46-15 HC ID: ---	11/12/11	11/15/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	6.1 12	< 6.1 U < 12 U 87.9%
TW59I 11-26199	KJ-B47-13 HC ID: ---	11/12/11	11/15/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	6.8 14	< 6.8 U < 14 U 94.1%
TW59J 11-26200	KJ-B48-3 HC ID: DIESEL/MOTOR OIL	11/12/11	11/15/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	5.8 12	50 18 86.5%
TW59K 11-26201	KJ-B49-13 HC ID: ---	11/12/11	11/15/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	6.2 12	< 6.2 U < 12 U 89.6%
TW59L 11-26202	KJ-B50-10 HC ID: ---	11/12/11	11/15/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	6.0 12	< 6.0 U < 12 U 90.7%
TW59M 11-26203	KJ-B51-7 HC ID: ---	11/12/11	11/15/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	6.4 13	< 6.4 U < 13 U 94.2%

ORGANICS ANALYSIS DATA SHEET

TOTAL DIESEL RANGE HYDROCARBONS

NWTPHD by GC/FID-Silica and Acid Cleaned

Page 2 of 2

Matrix: Soil

QC Report No: TW59-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

1196012*00

Data Release Authorized: *[Signature]*

Reported: 11/15/11

ARI ID	Sample ID	Extraction Date	Analysis Date	EFV DL	Range	RL	Result
TW59N 11-26204	KJ-B52-5 HC ID: ---	11/12/11	11/15/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	6.3 13	< 6.3 U < 13 U 95.2%
MB-111211 11-26205	Method Blank HC ID: ---	11/12/11	11/15/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	5.0 10	< 5.0 U < 10 U 97.7%
TW59O 11-26205	KJ-B53-3 HC ID: DIESEL	11/12/11	11/15/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	5.3 11	14 < 11 U 93.4%
TW59P 11-26206	KJ-B54-6 HC ID: ---	11/12/11	11/15/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	6.0 12	< 6.0 U < 12 U 96.6%
TW59Q 11-26207	KJ-B55-3 HC ID: DIESEL	11/12/11	11/15/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	5.7 12	34 < 12 U 88.0%
TW59R 11-26208	KJ-B56-3 HC ID: ---	11/12/11	11/15/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	5.8 12	< 5.8 U < 12 U 98.2%
TW59S 11-26209	KJ-B57-5 HC ID: ---	11/12/11	11/15/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	5.9 12	< 5.9 U < 12 U 90.0%
TW59T 11-26210	KJ-B58-3 HC ID: ---	11/12/11	11/15/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	5.7 11	< 5.7 U < 11 U 93.5%

Reported in mg/kg (ppm)

EFV-Effective Final Volume in mL.

DL-Dilution of extract prior to analysis.

RL-Reporting limit.


Diesel quantitation on total peaks in the range from C12 to C24.

Motor Oil quantitation on total peaks in the range from C24 to C38.

HC ID: DRO/RRO indicate results of organics or additional hydrocarbons in ranges are not identifiable.

ORGANICS ANALYSIS DATA SHEET
NWTPHD by GC/FID-Silica and Acid Cleaned
 Page 1 of 1

Sample ID: KJ-B53-3
 MS/MSD

Lab Sample ID: TW590
 LIMS ID: 11-26205
 Matrix: Soil
 Data Release Authorized: 
 Reported: 11/15/11

QC Report No: TW59-Kennedy Jenks Consultants
 Project: Ecology Cornet Bay
 1196012*00
 Date Sampled: 11/10/11
 Date Received: 11/11/11

Date Extracted MS/MSD: 11/12/11
 Date Analyzed MS: 11/15/11 07:44
 MSD: 11/15/11 08:07
 Instrument/Analyst MS: FID/MS
 MSD: FID/MS

Sample Amount MS: 9.40 g-dry-wt
 MSD: 9.34 g-dry-wt
 Final Extract Volume MS: 1.0 mL
 MSD: 1.0 mL
 Dilution Factor MS: 1.0
 MSD: 1.0
 Percent Moisture: 8.6%

Range	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Diesel	14.5	147	160	82.8%	145	161	81.1%	1.4%


TPHD Surrogate Recovery

	MS	MSD
o-Terphenyl	92.9%	90.8%

Results reported in mg/kg
 RPD calculated using sample concentrations per SW846.

ORGANICS ANALYSIS DATA SHEET
 NWTPHD by GC/FID-Silica and Acid Cleaned
 Page 1 of 1

Sample ID: LCS-111211
 LAB CONTROL

Lab Sample ID: LCS-111211
 LIMS ID: 11-26205
 Matrix: Soil
 Data Release Authorized: 
 Reported: 11/15/11

QC Report No: TW59-Kennedy Jenks Consultants
 Project: Ecology Cornet Bay
 1196012*00
 Date Sampled: 11/10/11
 Date Received: 11/11/11

Date Extracted: 11/12/11
 Date Analyzed: 11/15/11 04:15
 Instrument/Analyst: FID/MS

Sample Amount: 10.0 g
 Final Extract Volume: 1.0 mL
 Dilution Factor: 1.0

Range	Lab Control	Spike Added	Recovery
Diesel	126	150	84.0%

TPHD Surrogate Recovery

o-Terphenyl	92.0%
-------------	-------

Results reported in mg/kg

CLEANED TPHD SURROGATE RECOVERY SUMMARY

Matrix: Soil

QC Report No: TW59-Kennedy Jenks Consultants
Project: Ecology Cornet Bay
1196012*00

<u>Client ID</u>	<u>OTER</u>	<u>TOT OUT</u>
KJ-MW8-7	82.8%	0
KJ-MW8-10	97.4%	0
KJ-MW9-5	85.6%	0
KJ-MW10-6	82.4%	0
KJ-B45-7	91.4%	0
KJ-B45-15	97.3%	0
KJ-B46-11	97.3%	0
KJ-B46-15	87.9%	0
KJ-B47-13	94.1%	0
KJ-B48-3	86.5%	0
KJ-B49-13	89.6%	0
KJ-B50-10	90.7%	0
KJ-B51-7	94.2%	0
KJ-B52-5	95.2%	0
MB-111211	97.7%	0
LCS-111211	92.0%	0
KJ-B53-3	93.4%	0
KJ-B53-3 MS	92.9%	0
KJ-B53-3 MSD	90.8%	0
KJ-B54-6	96.6%	0
KJ-B55-3	88.0%	0
KJ-B56-3	98.2%	0
KJ-B57-5	90.0%	0
KJ-B58-3	93.5%	0

LCS/MB LIMITS QC LIMITS

(OTER) = o-Terphenyl

(50-150)

(50-150)

Prep Method: SW3546

Log Number Range: 11-26191 to 11-26210

TOTAL DIESEL RANGE HYDROCARBONS-EXTRACTION REPORT

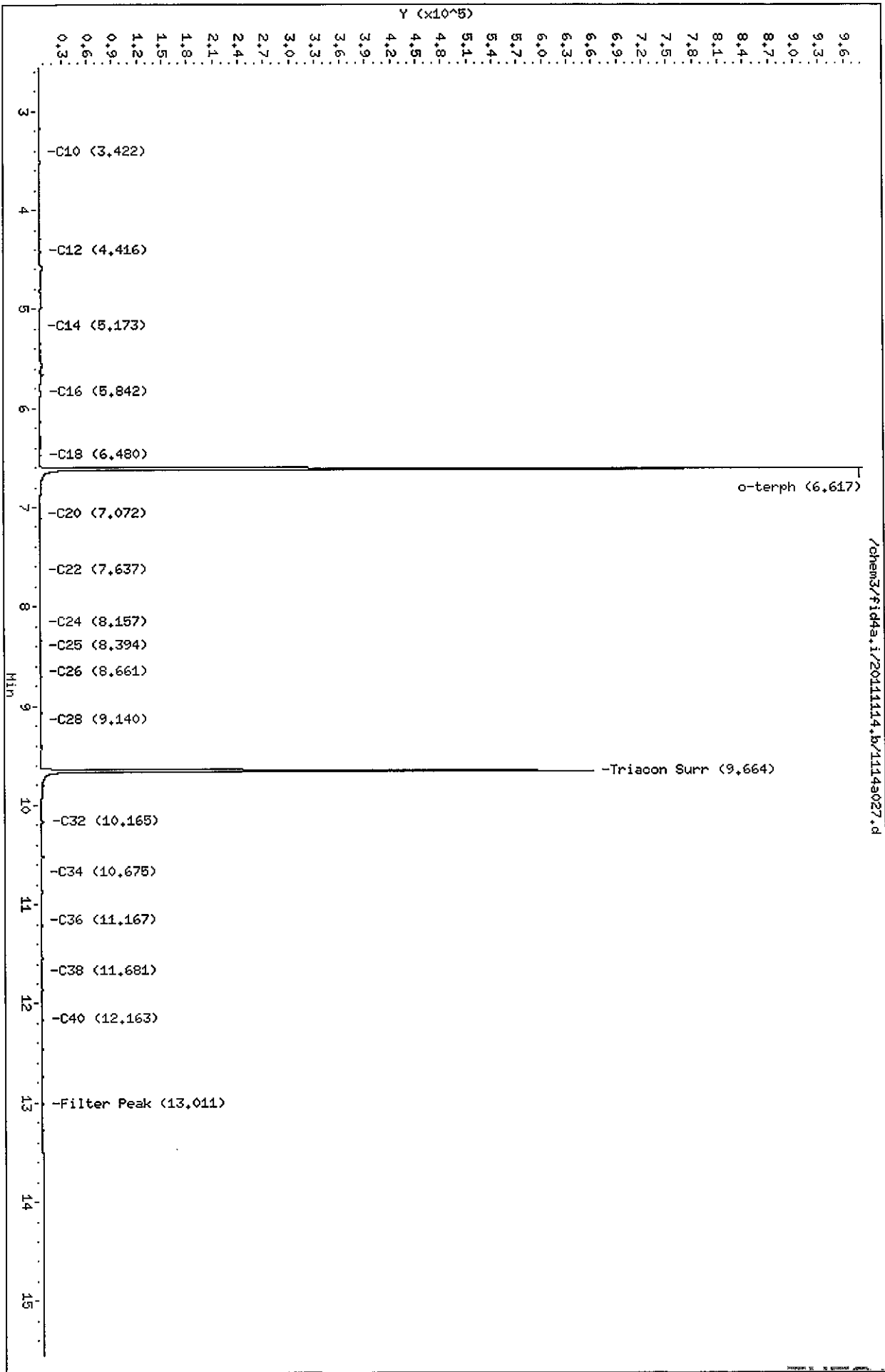
Matrix: Soil
Date Received: 11/11/11

ARI Job: TW59
Project: Ecology Cornet Bay
1196012*00

ARI ID	Client ID	Client Amt	Final Vol	Basis	Prep Date
11-26191-TW59A	KJ-MW8-7	8.12 g	1.00 mL	D	11/12/11
11-26192-TW59B	KJ-MW8-10	7.77 g	1.00 mL	D	11/12/11
11-26193-TW59C	KJ-MW9-5	8.06 g	1.00 mL	D	11/12/11
11-26194-TW59D	KJ-MW10-6	8.71 g	1.00 mL	D	11/12/11
11-26195-TW59E	KJ-B45-7	8.27 g	1.00 mL	D	11/12/11
11-26196-TW59F	KJ-B45-15	8.26 g	1.00 mL	D	11/12/11
11-26197-TW59G	KJ-B46-11	8.29 g	1.00 mL	D	11/12/11
11-26198-TW59H	KJ-B46-15	8.22 g	1.00 mL	D	11/12/11
11-26199-TW59I	KJ-B47-13	7.40 g	1.00 mL	D	11/12/11
11-26200-TW59J	KJ-B48-3	8.66 g	1.00 mL	D	11/12/11
11-26201-TW59K	KJ-B49-13	8.13 g	1.00 mL	D	11/12/11
11-26202-TW59L	KJ-B50-10	8.31 g	1.00 mL	D	11/12/11
11-26203-TW59M	KJ-B51-7	7.81 g	1.00 mL	D	11/12/11
11-26204-TW59N	KJ-B52-5	7.92 g	1.00 mL	D	11/12/11
11-26205-111211MB1	Method Blank	10.0 g	1.00 mL	-	11/12/11
11-26205-111211LCS1	Lab Control	10.0 g	1.00 mL	-	11/12/11
11-26205-TW59O	KJ-B53-3	9.39 g	1.00 mL	D	11/12/11
11-26205-TW59OMS	KJ-B53-3	9.40 g	1.00 mL	D	11/12/11
11-26205-TW59OMSD	KJ-B53-3	9.34 g	1.00 mL	D	11/12/11
11-26206-TW59P	KJ-B54-6	8.34 g	1.00 mL	D	11/12/11
11-26207-TW59Q	KJ-B55-3	8.71 g	1.00 mL	D	11/12/11
11-26208-TW59R	KJ-B56-3	8.64 g	1.00 mL	D	11/12/11
11-26209-TW59S	KJ-B57-5	8.43 g	1.00 mL	D	11/12/11
11-26210-TW59T	KJ-B58-3	8.79 g	1.00 mL	D	11/12/11

Basis: D=Dry Weight W=As Received
Diesel Extraction Report

TW56: 00282



Data File: /chem3/fid4a.i/20111114.b/1114a026.d

Date: 15-NOV-2011 04:15

Client ID: TMS9LCS01

Sample Info: TMS9LCS01

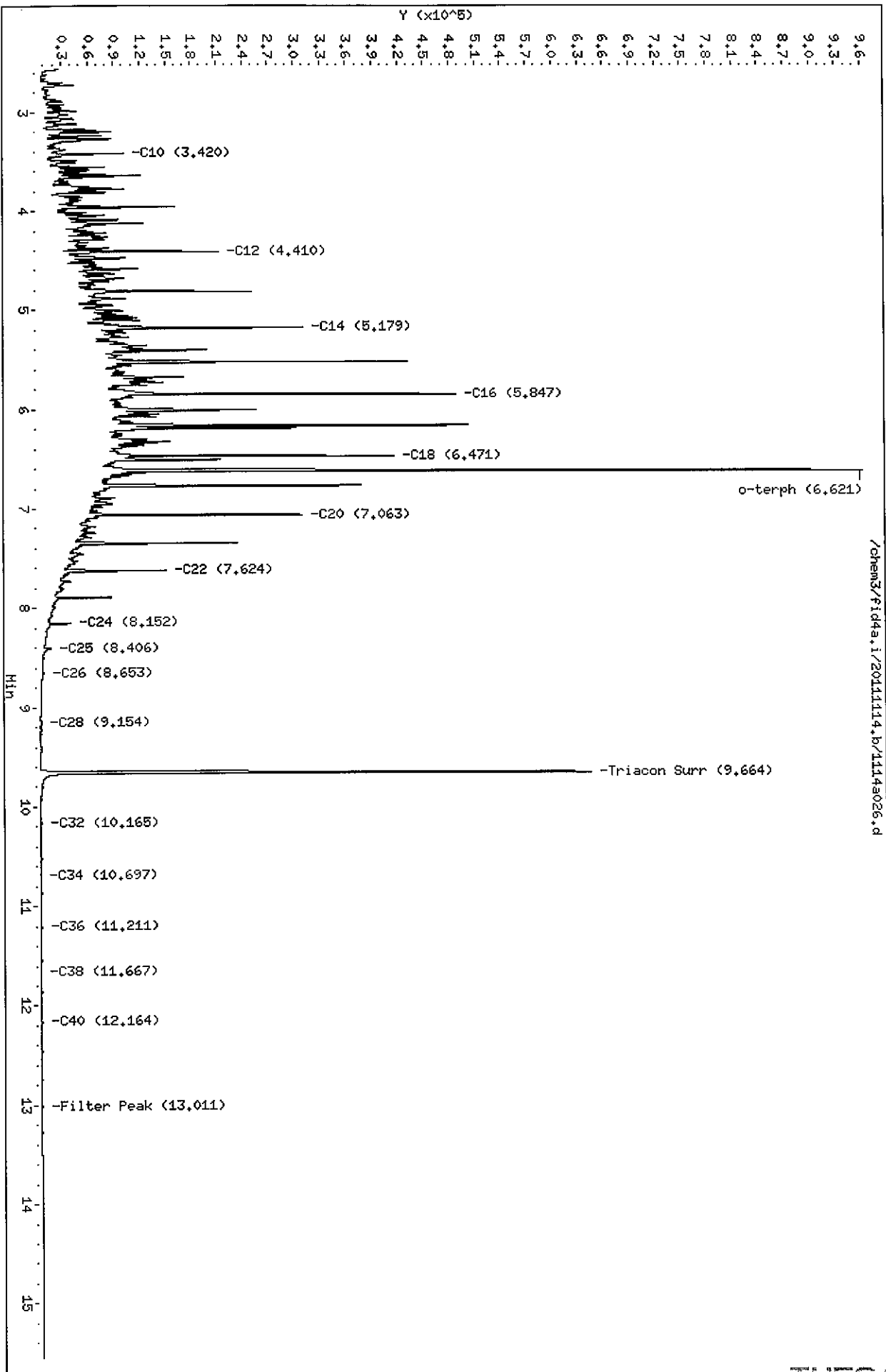
Column phase: RTX-1

Instrument: fid4a.i

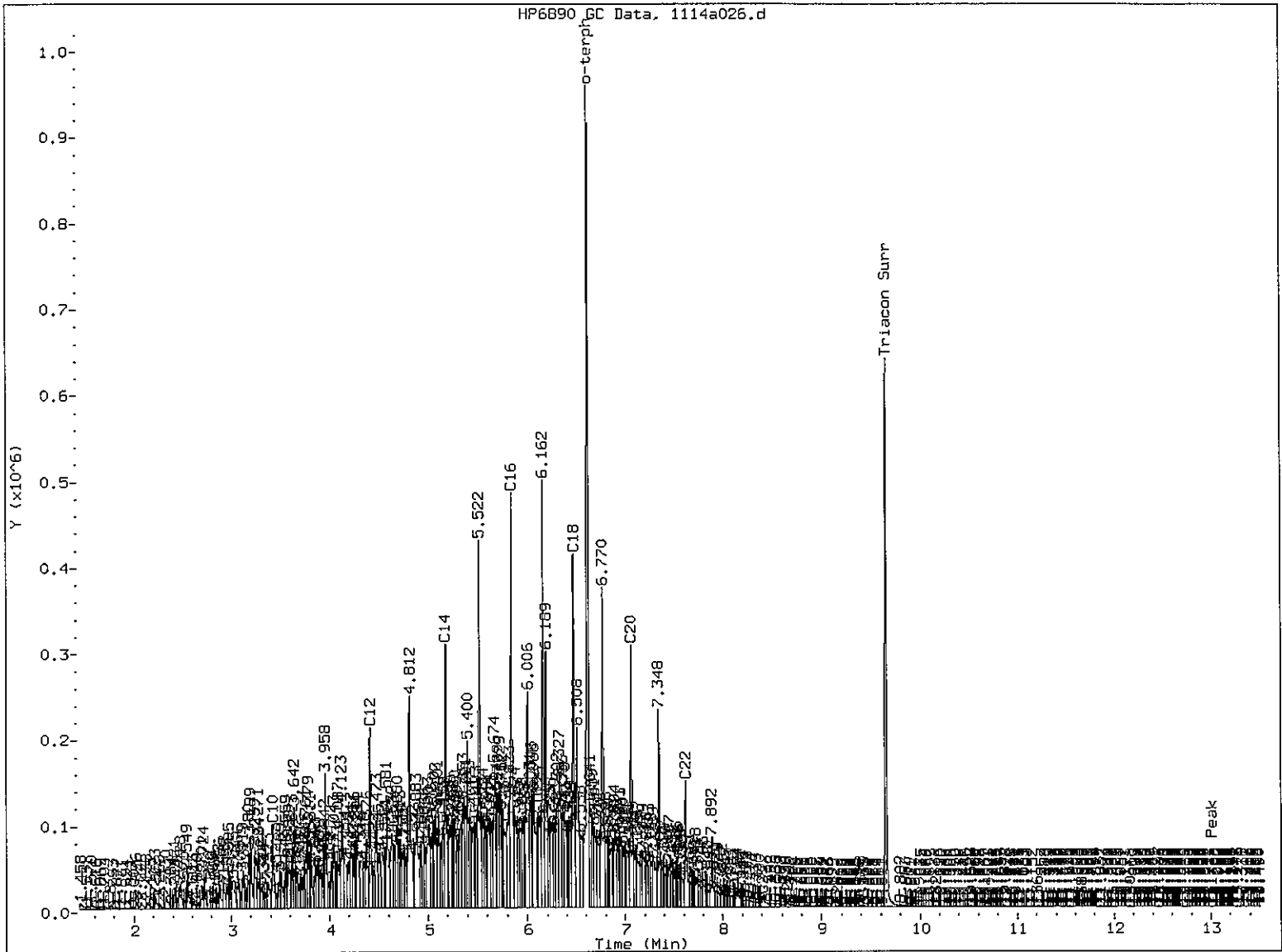
Operator: HS

Column diameter: 0.25

Page 1



TW56 00284



MANUAL INTEGRATION

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: _____

Date: _____

Data File: /chem3/fid4a.i/20111114.b/1114a035.d

Date: 15-NOV-2011 07:44

Client ID: KJ-B53-3 HS

Sample Info: TWS90MS

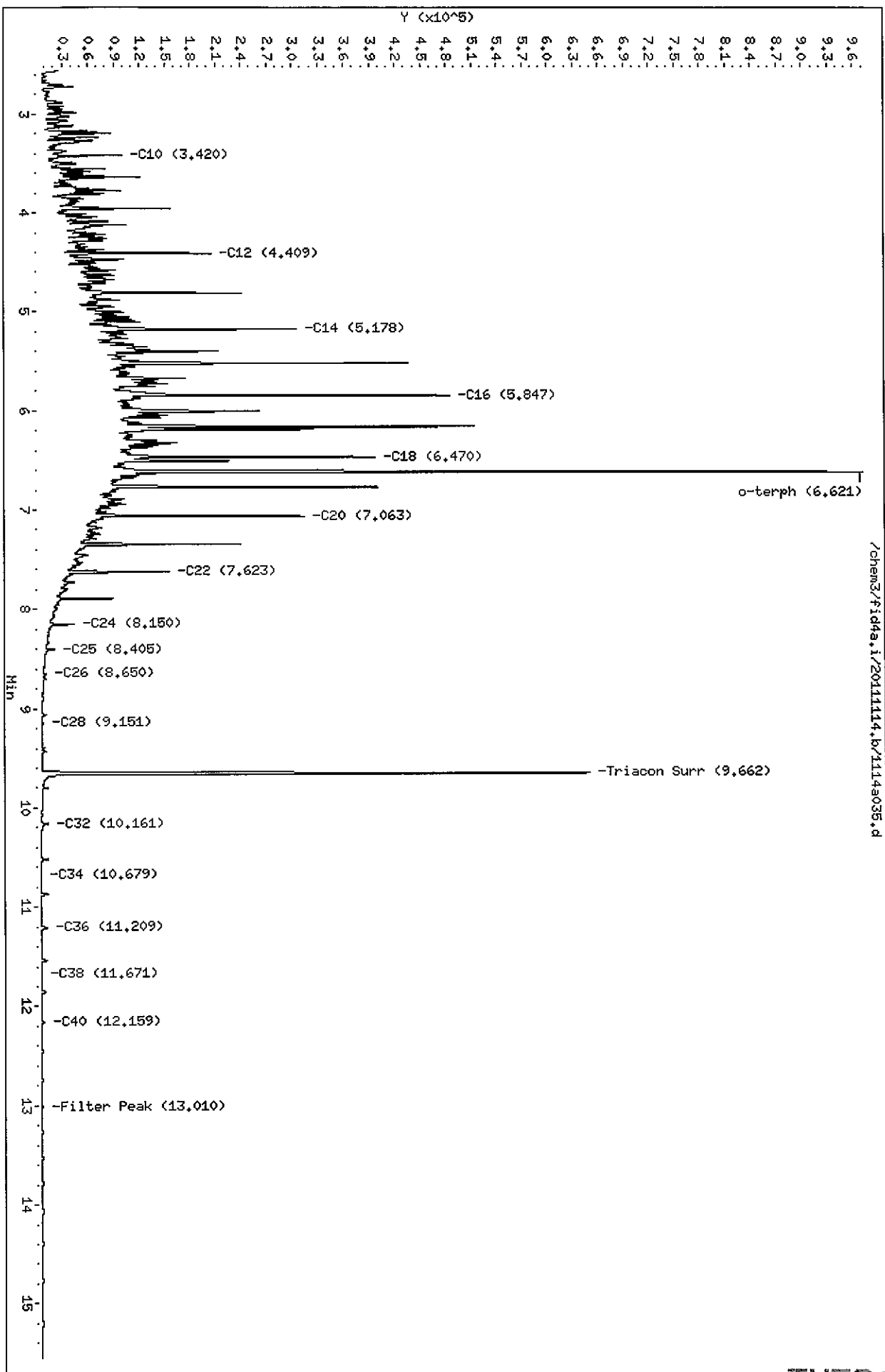
Column phase: RTX-1

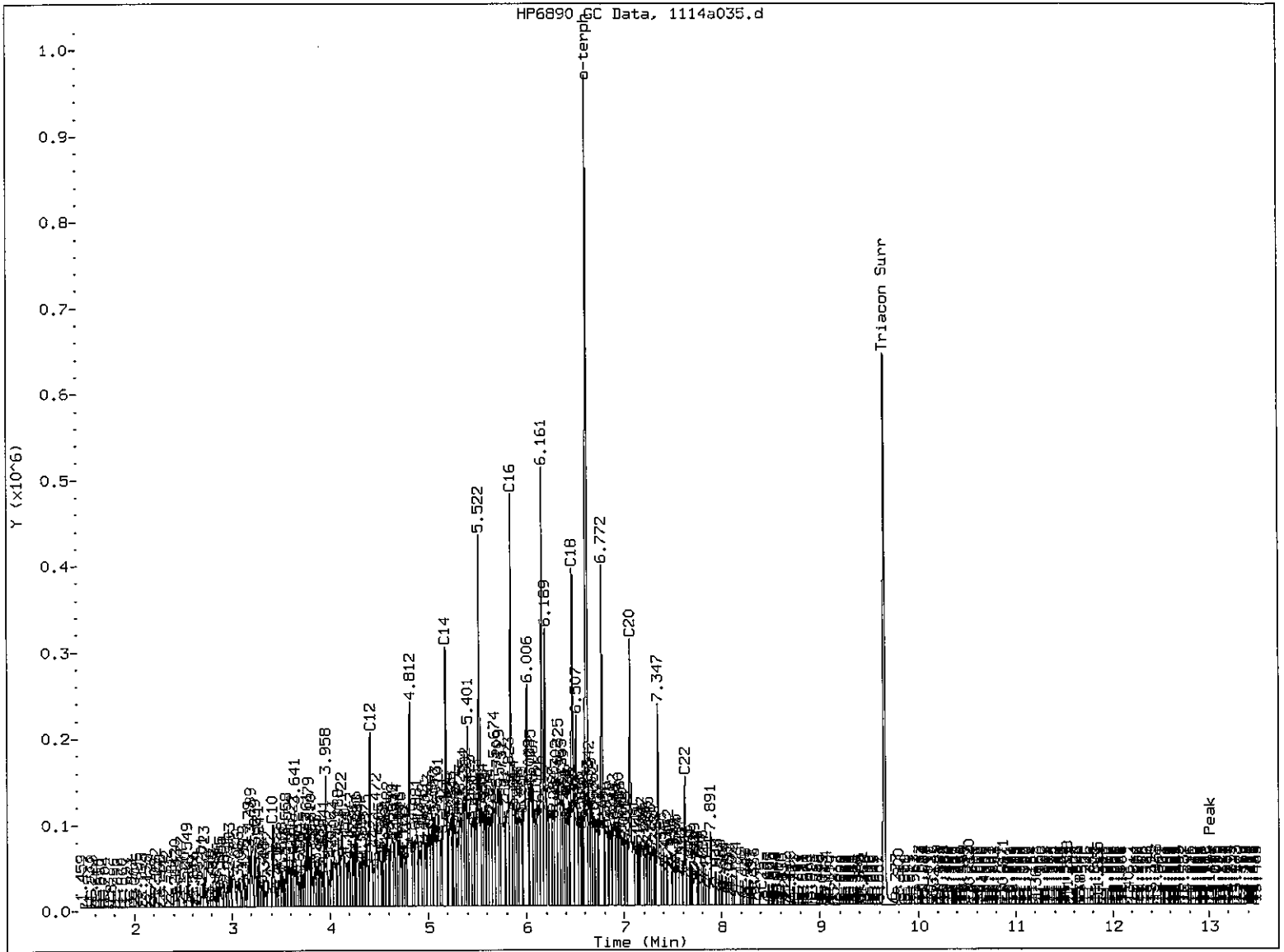
Instrument: fid4a.i

Operator: HS

Column diameter: 0.25

/chem3/fid4a.i/20111114.b/1114a035.d





MANUAL INTEGRATION

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: *[Signature]*

Date: *11/10/4*

Data File: /chem3/fid4a.i/20111114.b/1114a036.d

Date : 15-NOV-2011 08:07

Client ID: K3-B53-3 MSD

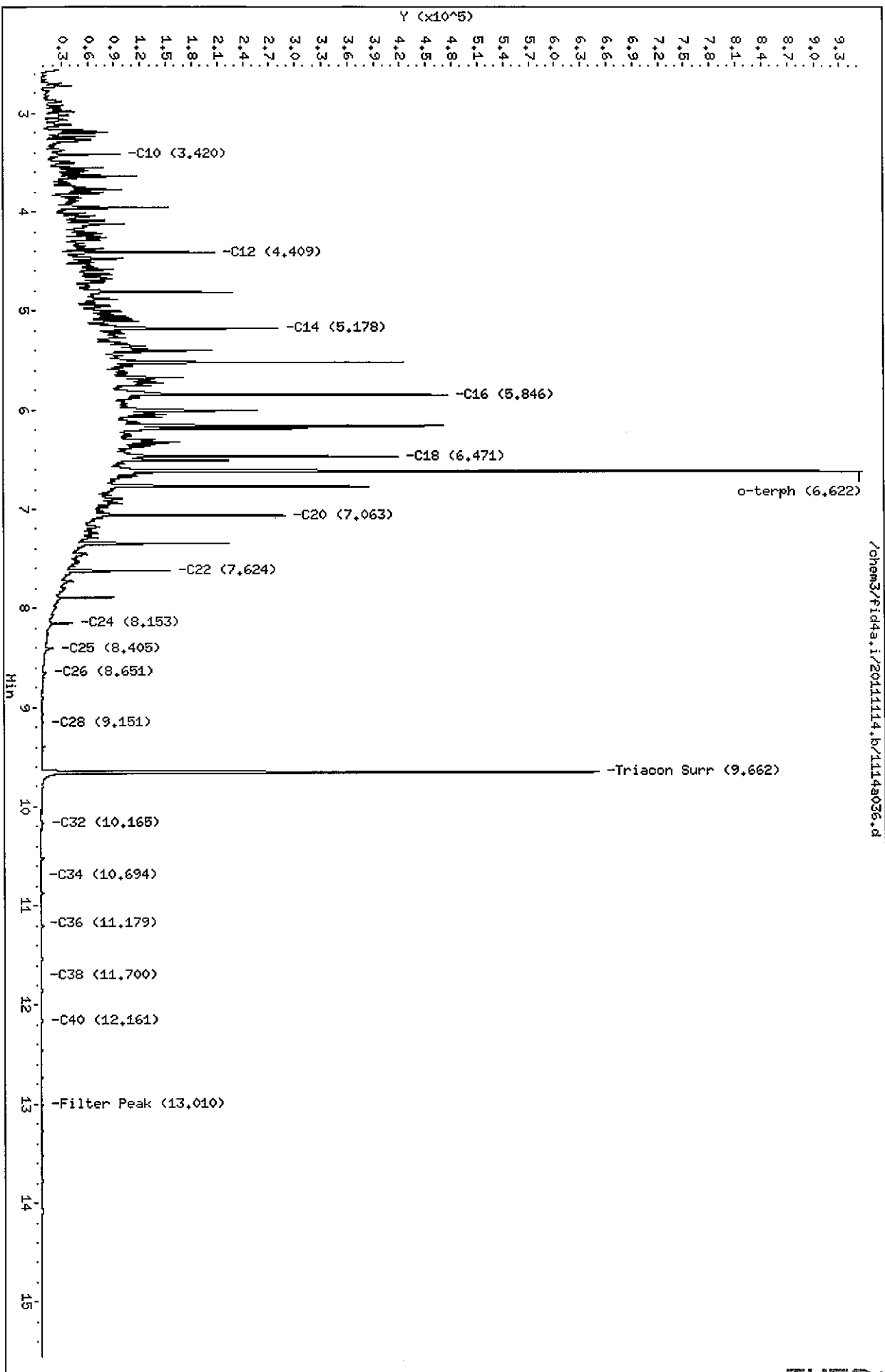
Sample Info: TMS90MSD

Column phase: RTX-1

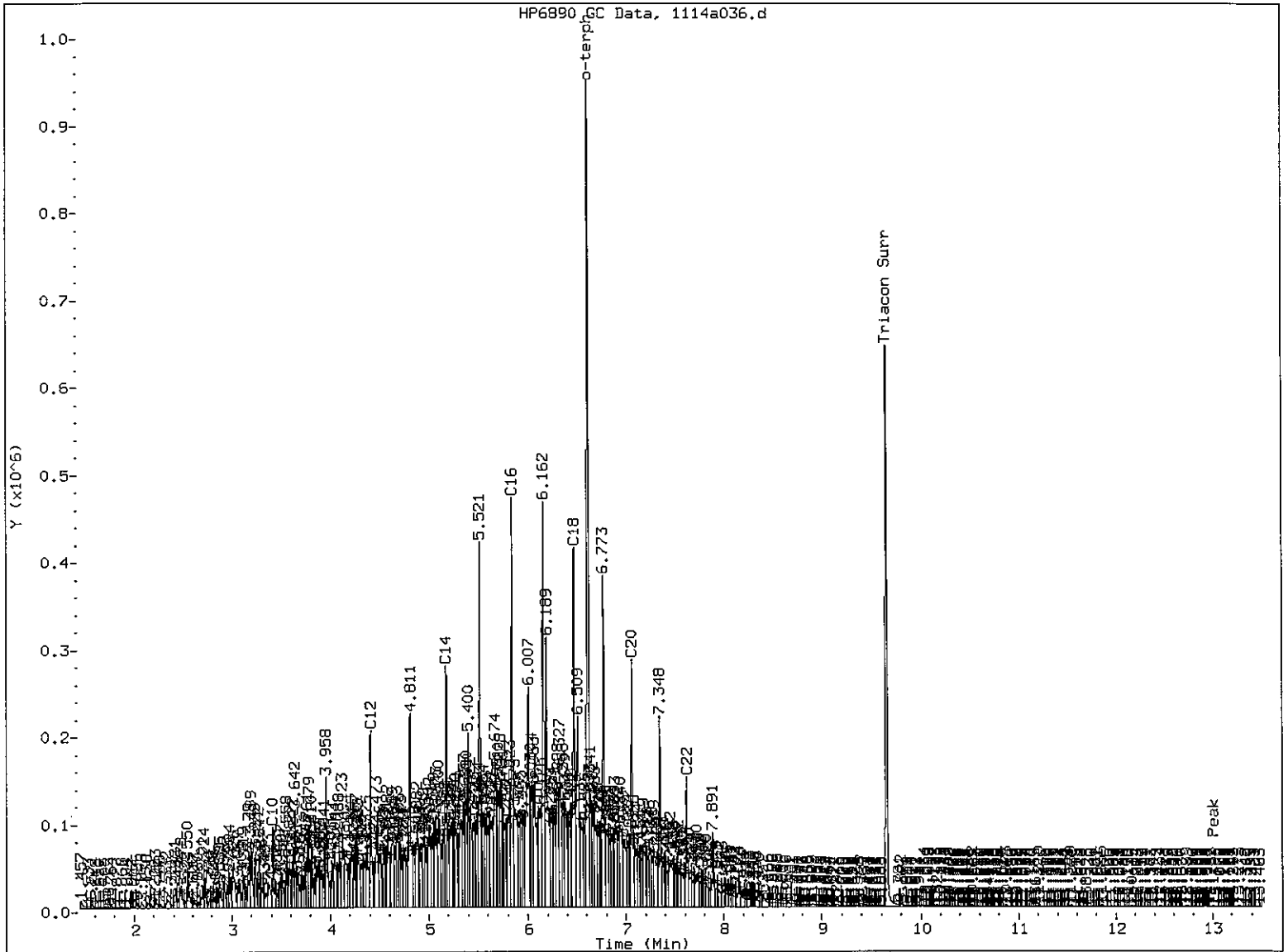
Instrument: fid4a.i

Operator: HS
Column diameter: 0.25

Page 1



1114a036.d



Data File: /chem3/fid4a.i/20111114.b/1114s016.d

Date: 14-NOV-2011 00:22

Client ID: K3-HW8-7

Sample Info: TW59A

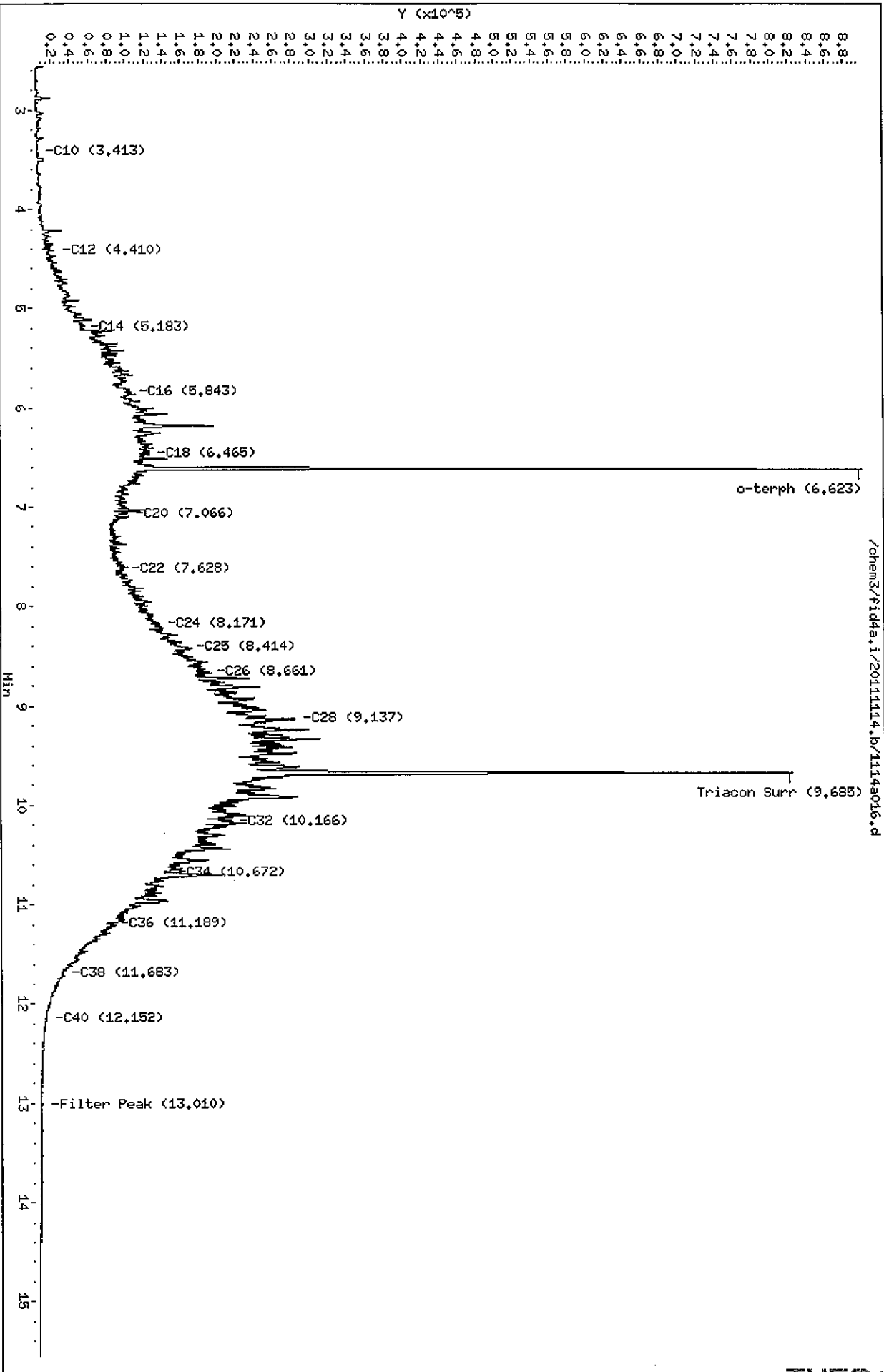
Column phase: RTX-1

Instrument: fid4a.i

Operator: HS

Column diameter: 0.25

Page 1



TW59: 00290

Data File: /chem3/fid4a.i/20111114.b/11149017.d

Date : 14-NOV-2011 00:46

Client ID: KJ-PM8-10

Sample Info: TMS9B

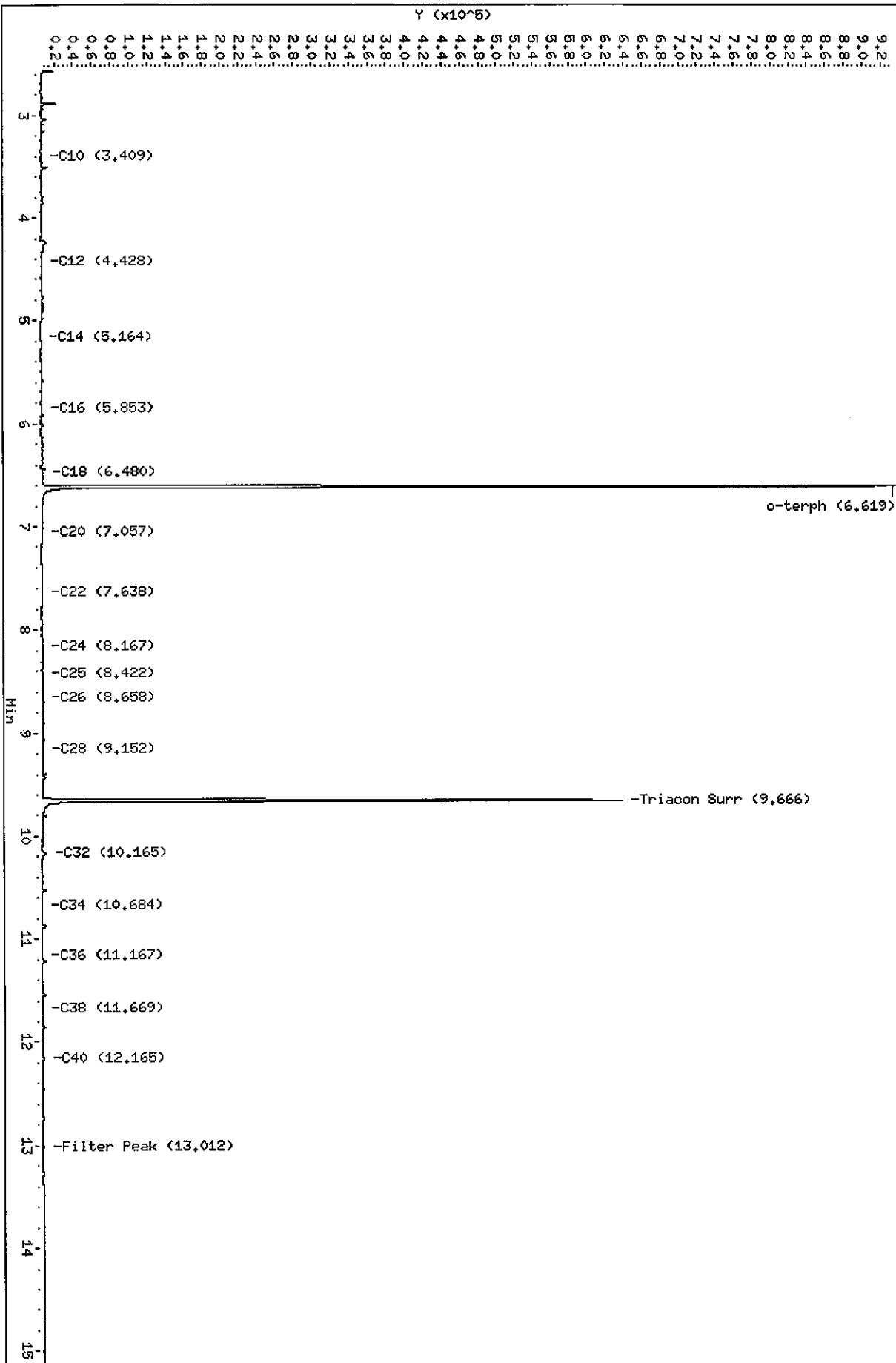
Column phase: RTX-1

Instrument: fid4a.i

Operator: HS

Column diameter: 0.25

/chem3/fid4a.i/20111114.b/11149017.d



Data File: /chem3/fid4a.i/20111114.b/1114a018.d

Date: 15-NOV-2011 01:09

Client ID: K3-HW9-5

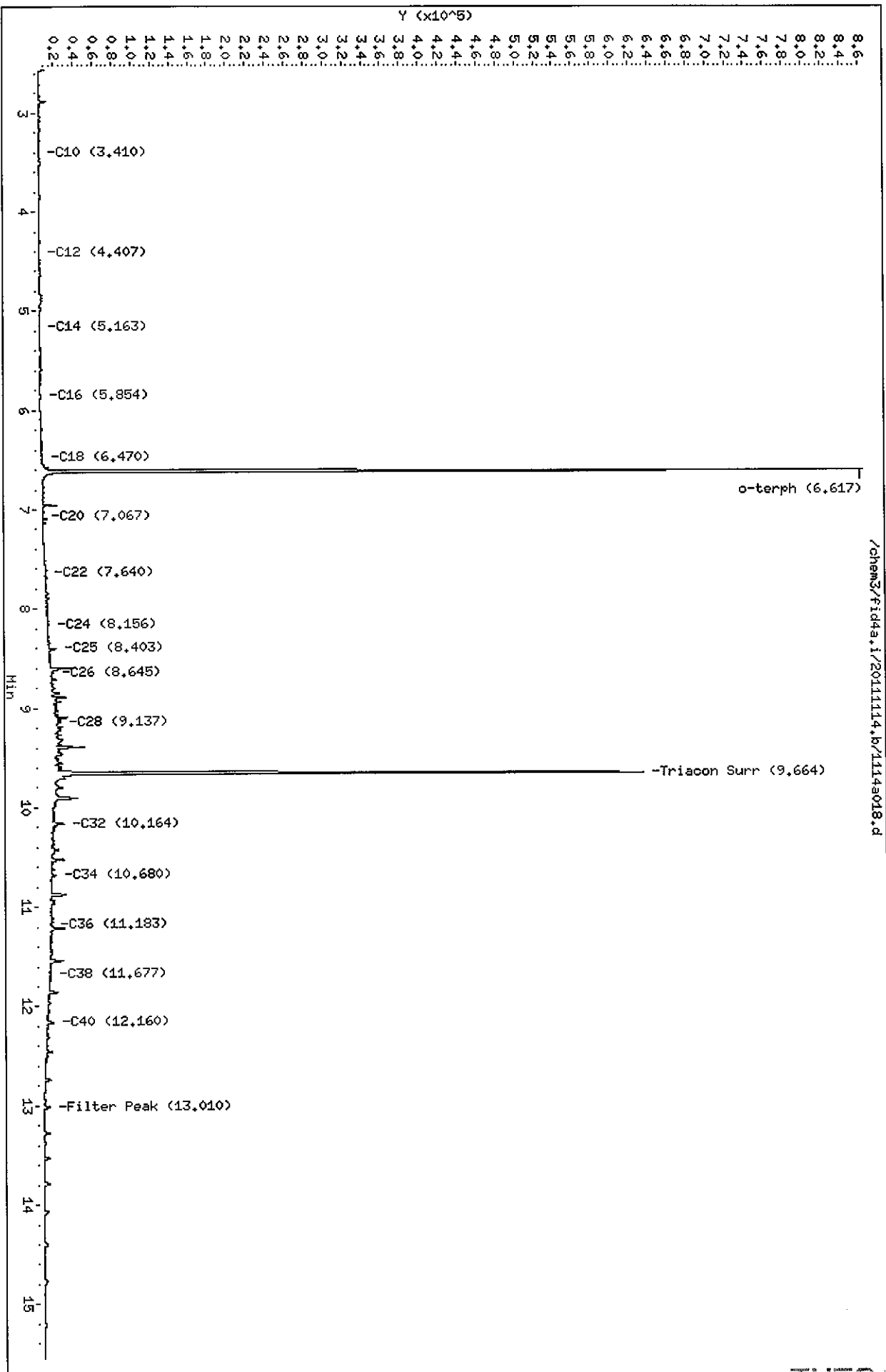
Sample Info: TMS9C

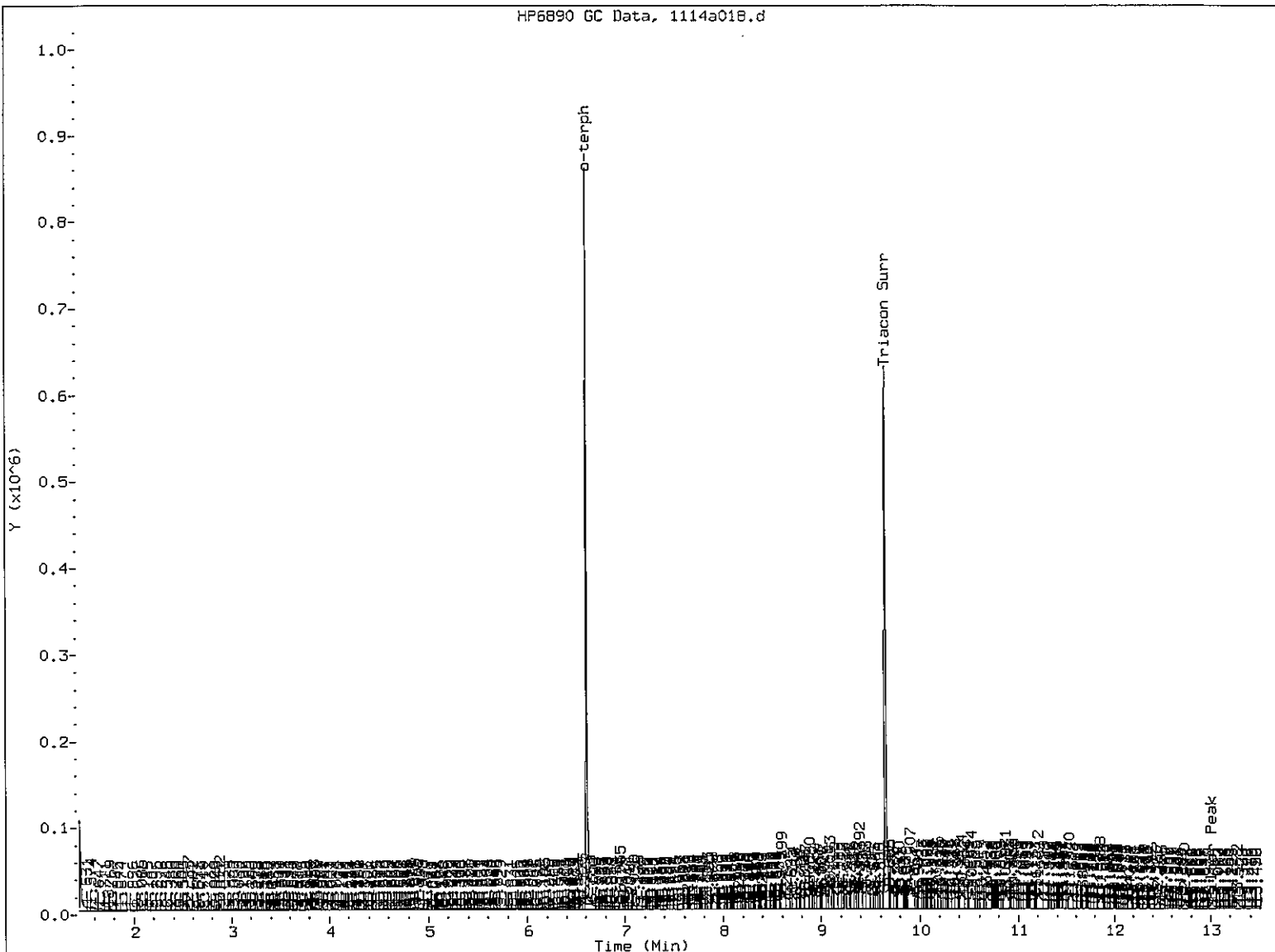
Column phase: RTX-1

Instrument: fid4a.i

Operator: HS

Column diameter: 0.25





MANUAL INTEGRATION

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: *AS*

Date: *4/10/11*

Data File: /chem3/fid4a.i/20111114.b/1114a019.d

Date: 15-NOV-2011 01:32

Client ID: K3-HM10-6

Sample Info: TW59D

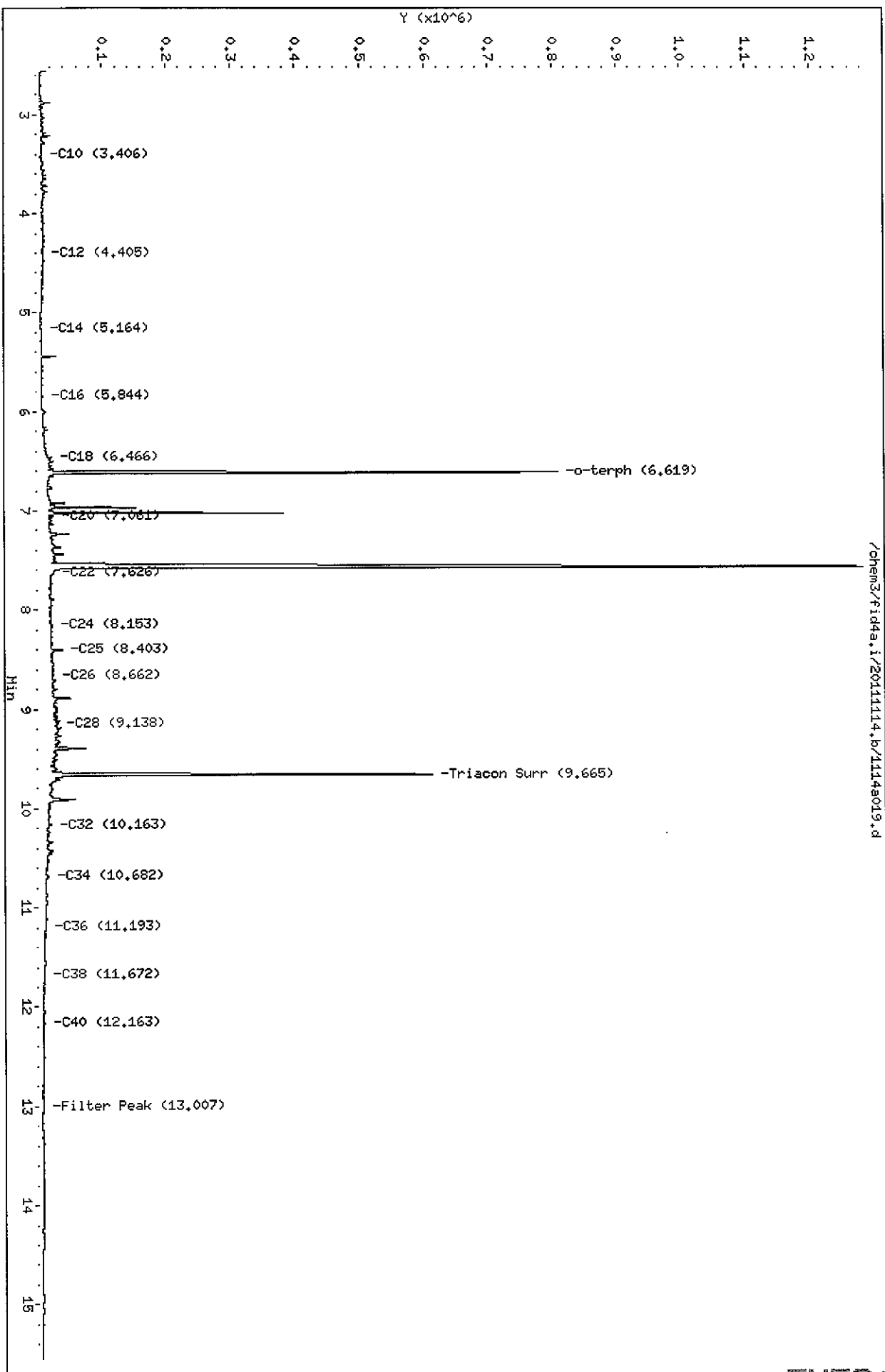
Column phase: RTX-1

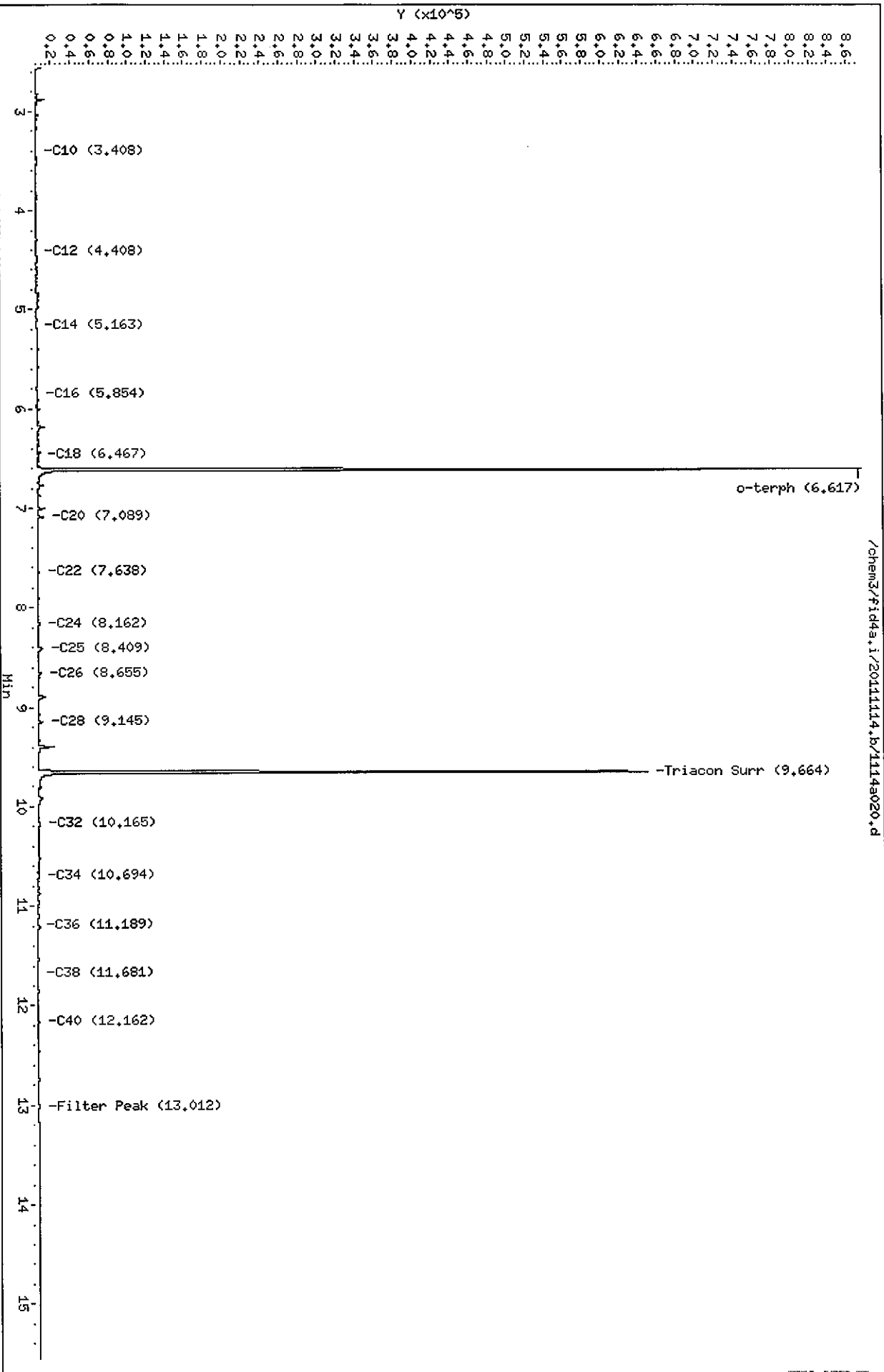
Instrument: fid4a.i

Operator: HS

Column diameter: 0.25

/chem3/fid4a.i/20111114.b/1114a019.d





Data File: /chem3/fid4a.i/20111114.b/11148024.d

Date : 15-NOV-2011 02:19

Client ID: KJ-B45-15

Sample Info: TW59F

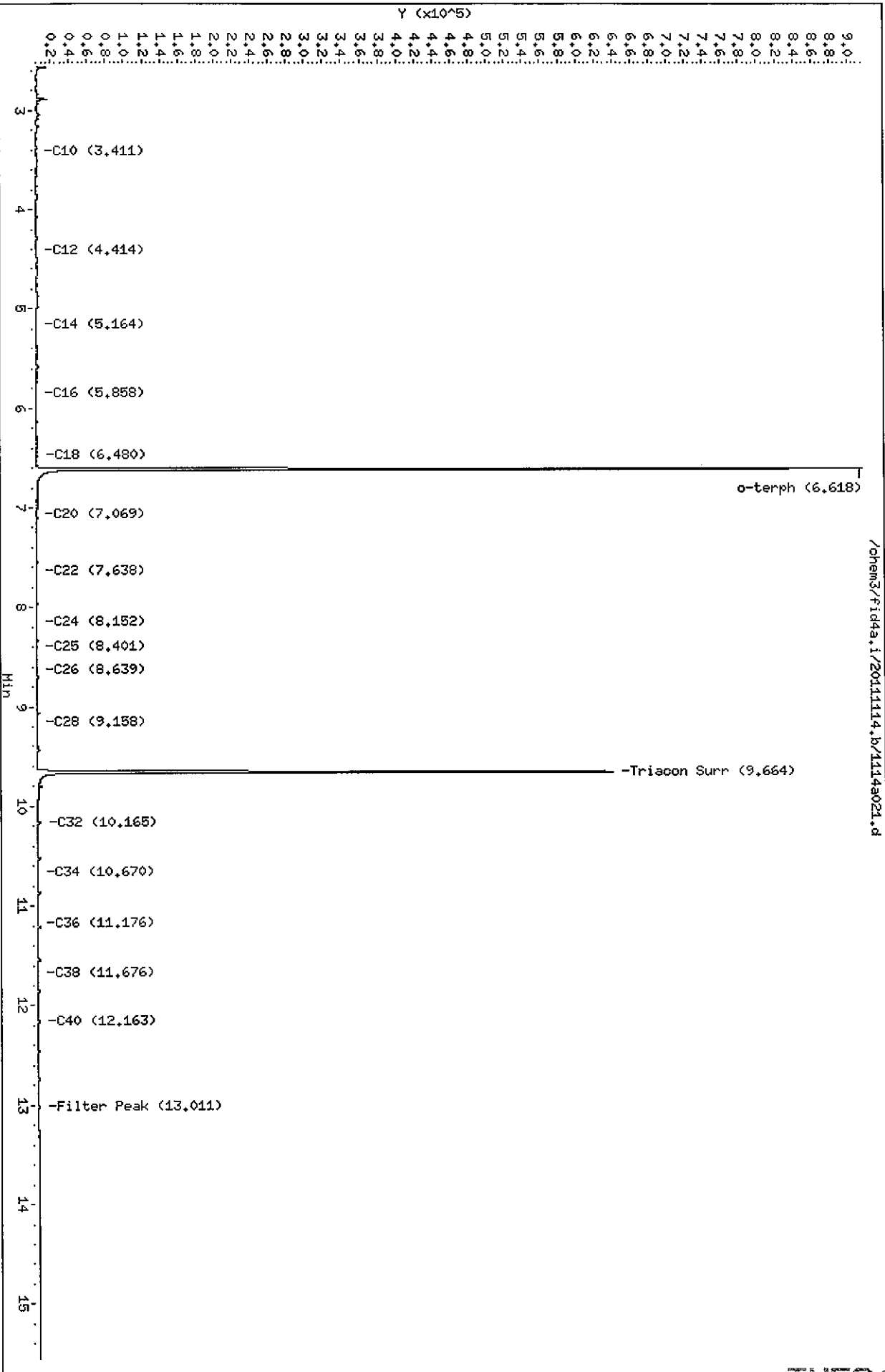
Column phase: RTX-1

Instrument: fid4a.i

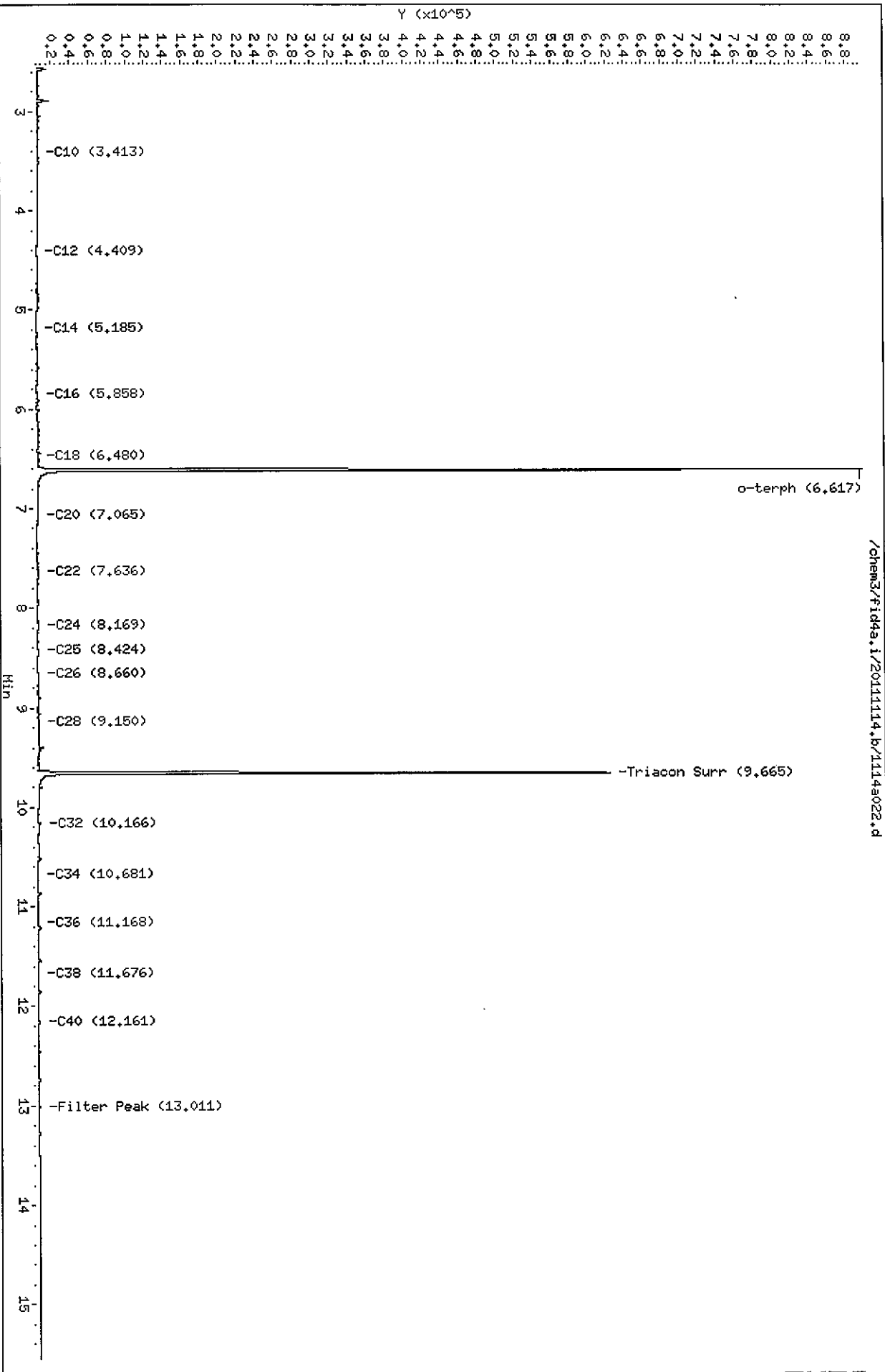
Operator: HS

Column diameter: 0.25

Page 1



TW59 00290



Data File: /chem3/fid4a.i/20111114.b/1144023.d

Date: 15-NOV-2011 03:05

Client ID: KJ-B46-15

Sample Info: TW59H

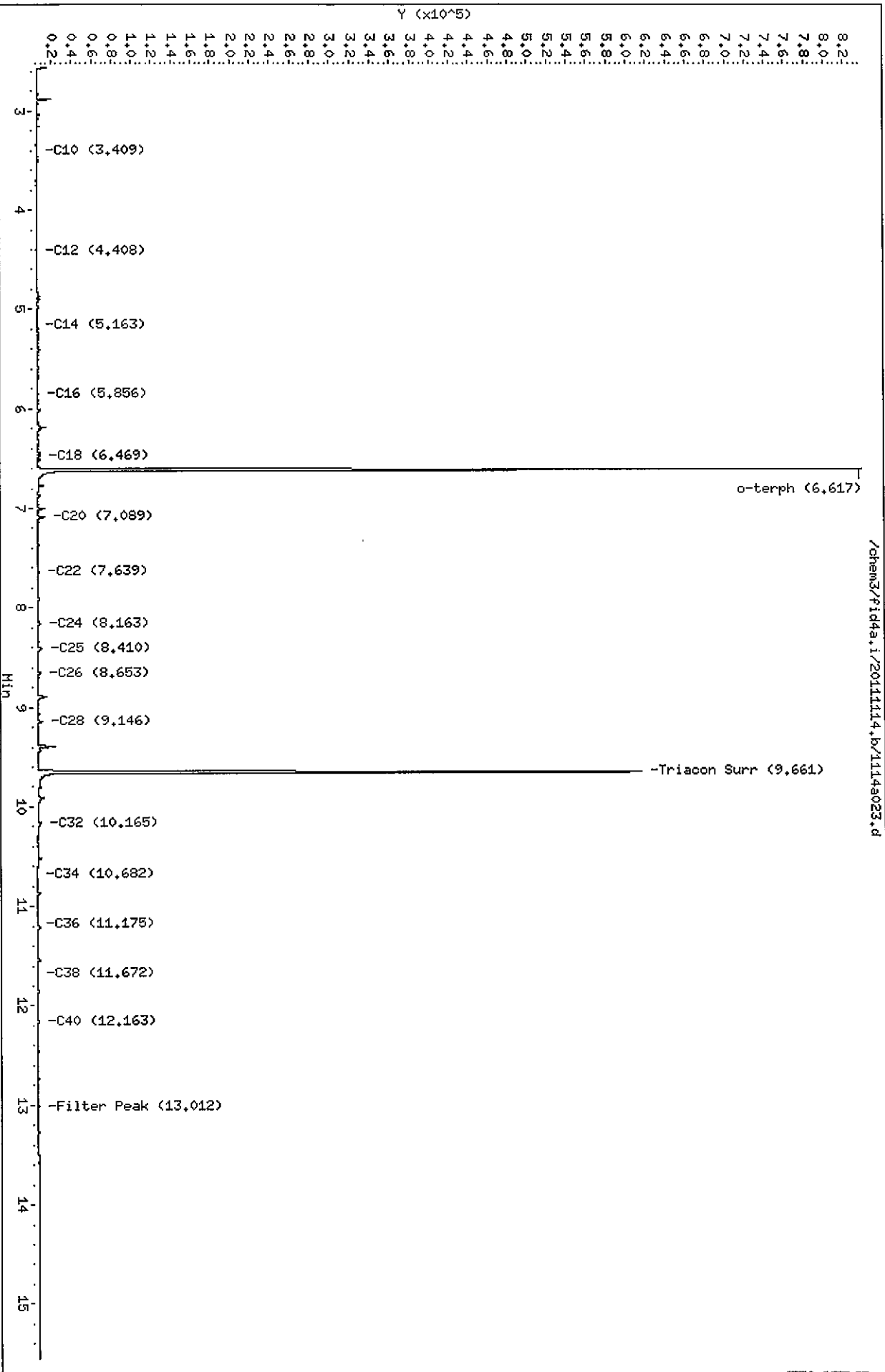
Column phase: RTX-1

Instrument: fid4a.i

Operator: MS

Column diameter: 0.25

Page 1



Data File: /chem3/fid4a.i/20111114.b/1114a024.d

Date: 15-NOV-2011 03:28

Client ID: KJ-B47-13

Sample Info: TMS91

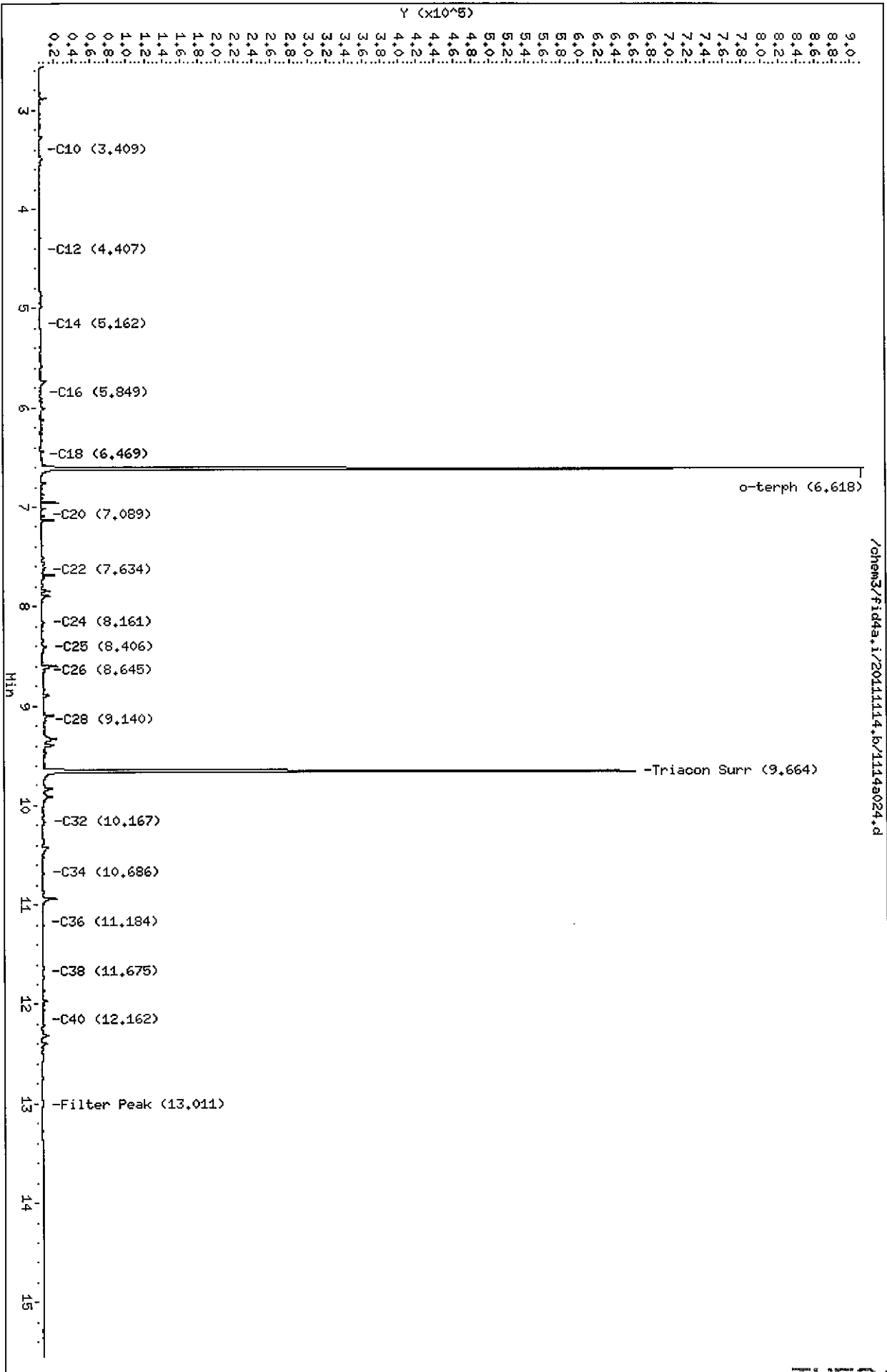
Column phase: RTX-1

Instrument: fid4a.i

Operator: HS

Column diameter: 0.25

Page 1



TW50 00301

Data File: /chem3/fid4a.i/20111114.b/11148025.d

Date : 15-NOV-2011 03:51

Client ID: KJ-B48-3

Sample Info: TW59J

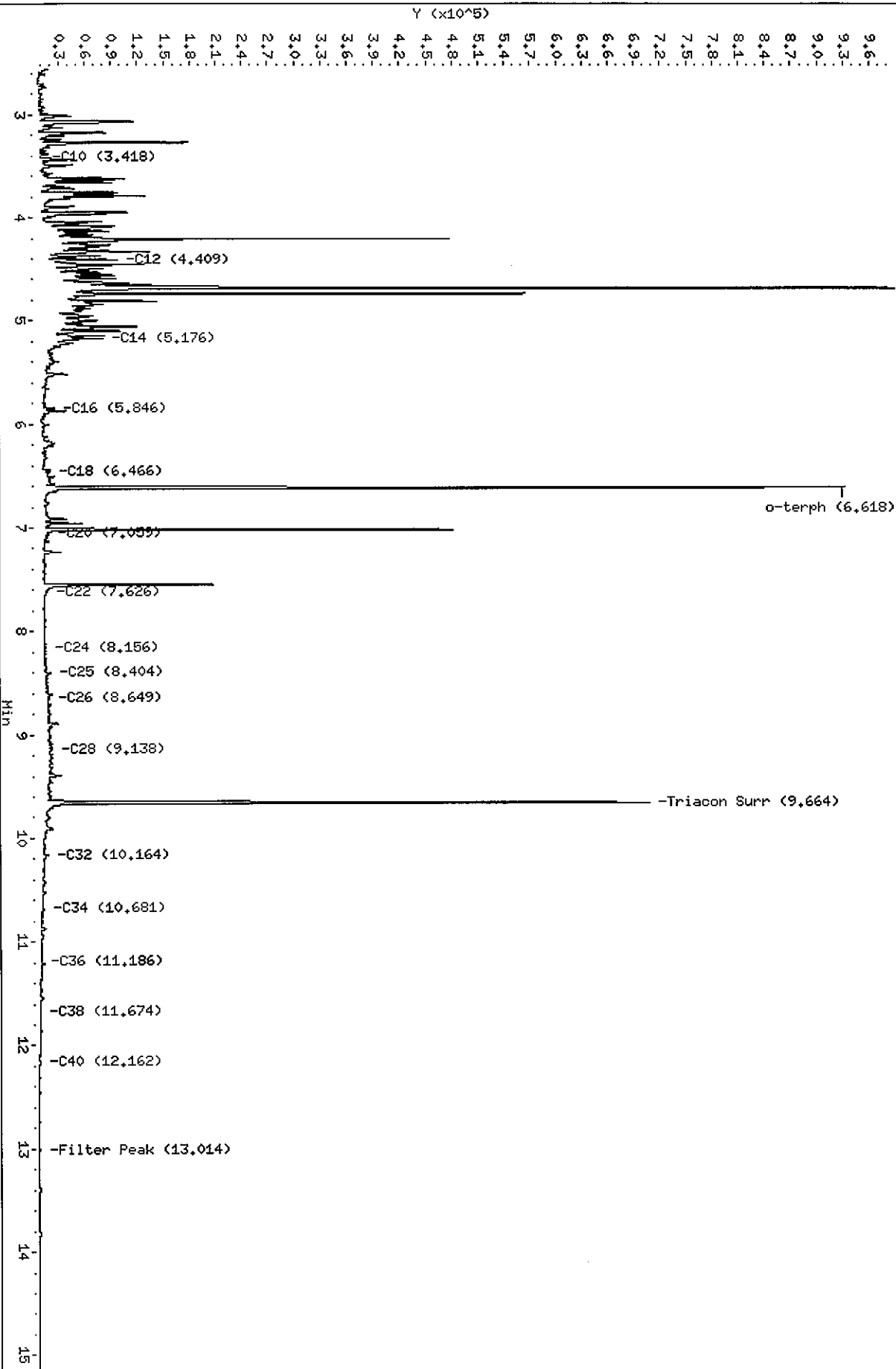
Column phase: RTX-1

Instrument: fid4a.i

Operator: HS

Column diameter: 0.25

/chem3/fid4a.i/20111114.b/11148025.d



Data File: /chem3/fid4a.i/20111114.b/1114a030.d

Date: 15-NOV-2011 05:48

Client ID: KJ-B49-13

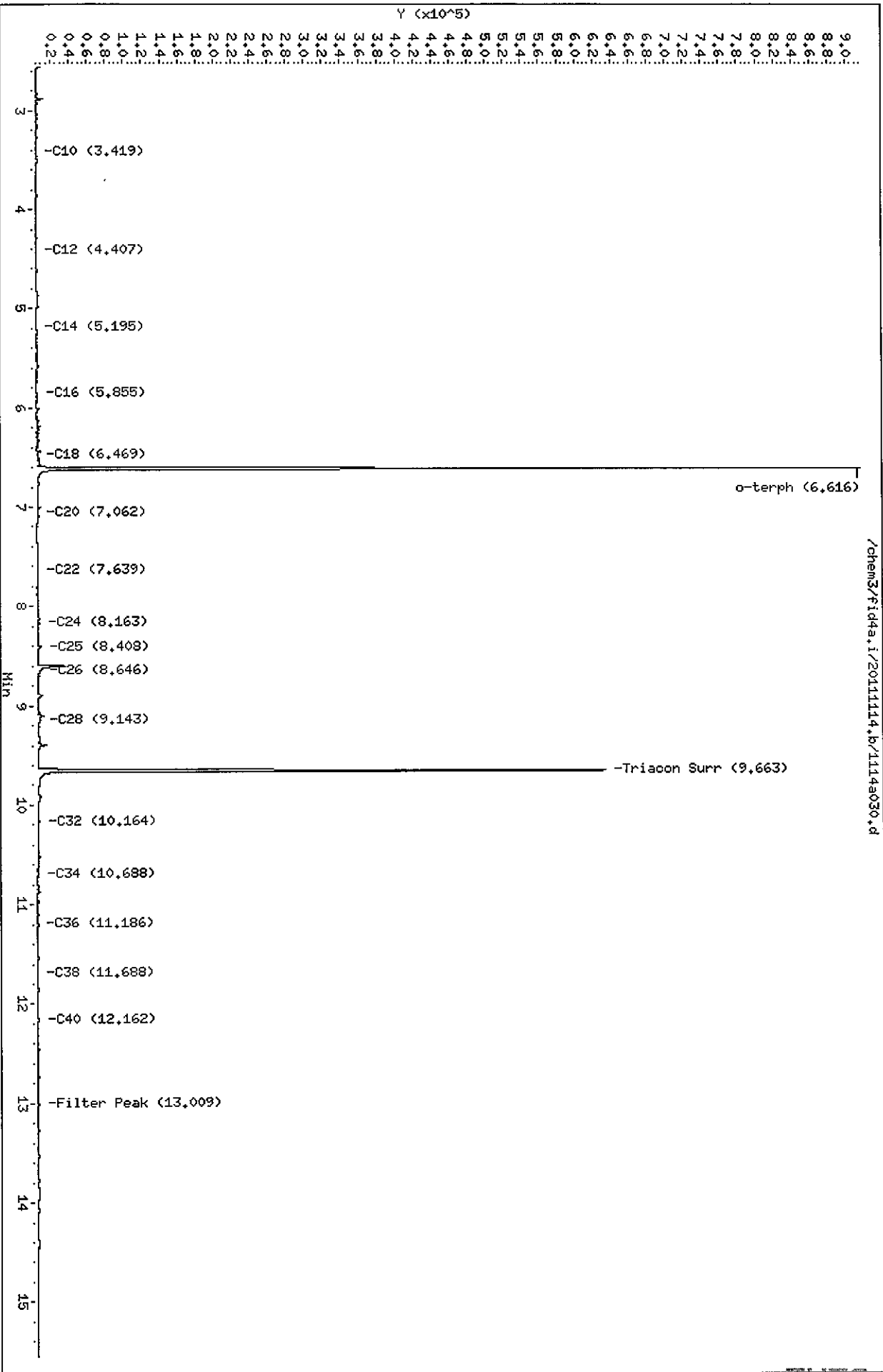
Sample Info: TM59K

Column phase: RTX-1

Instrument: fid4a.i

Operator: MS

Column diameter: 0.25



1114a030.d

Data File: /chem3/fid4a.i/20111114.b/1114a031.d

Date : 15-NOV-2011 06:11

Client ID: KJ-B50-10

Sample Info: TW59L

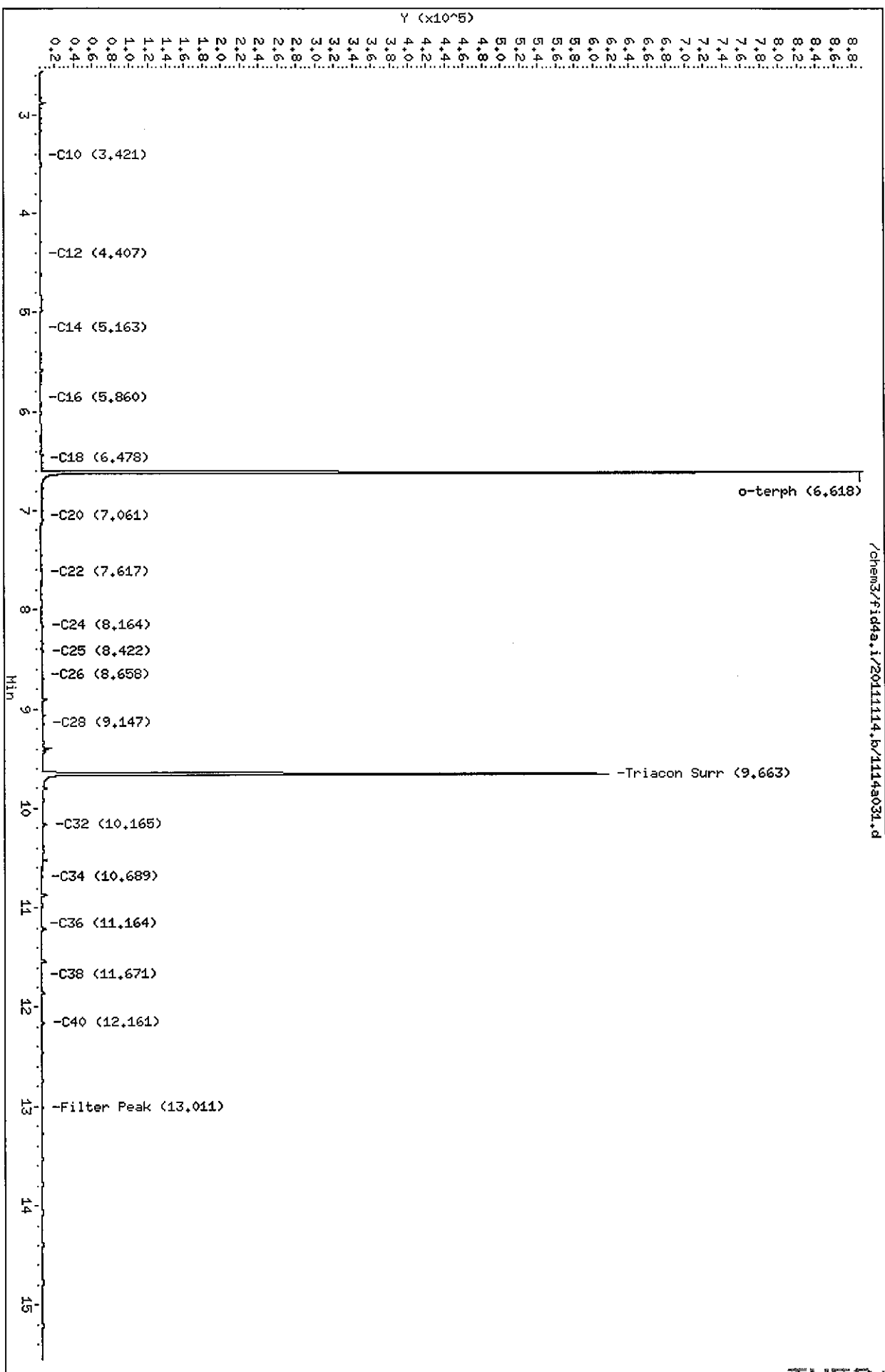
Column phase: RTX-1

Instrument: fid4a.i

Operator: HS

Column diameter: 0.25

/chem3/fid4a.i/20111114.b/1114a031.d



TW59L 000001

Data File: /chem3/fid4a.i/20111114.b/11144032.d

Date: 15-NOV-2011 06:34

Client ID: KJ-B51-7

Sample Info: TMS9H

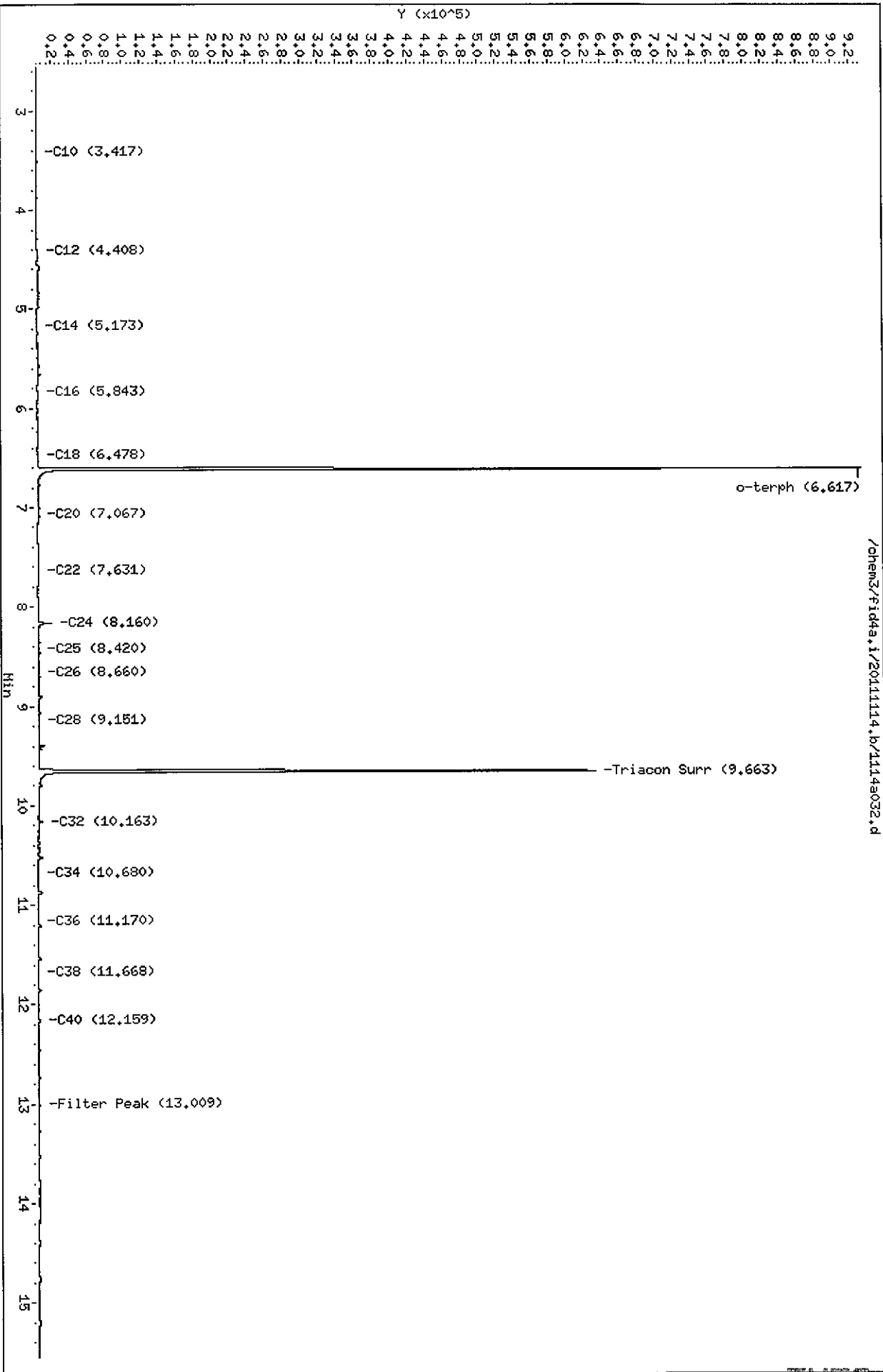
Column phase: RTX-1

Instrument: fid4a.i

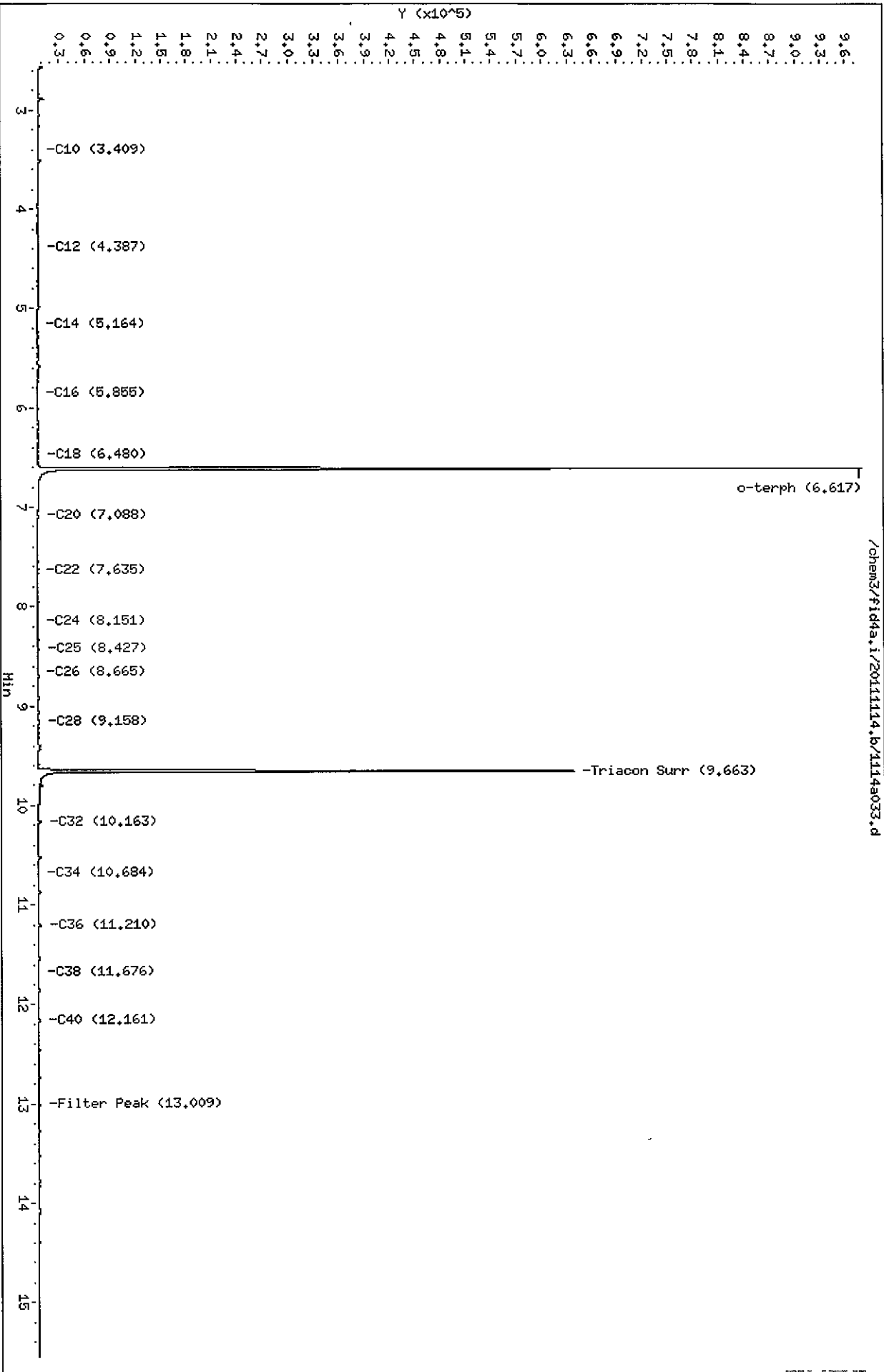
Operator: HS

Column diameter: 0.25

Page 1



11144032.d



Data File: /chem3/fid4a.i/20111114.b/1114a034.d

Date: 15-NOV-2011 07:21

Client ID: KJ-B53-3

Sample Info: TW590

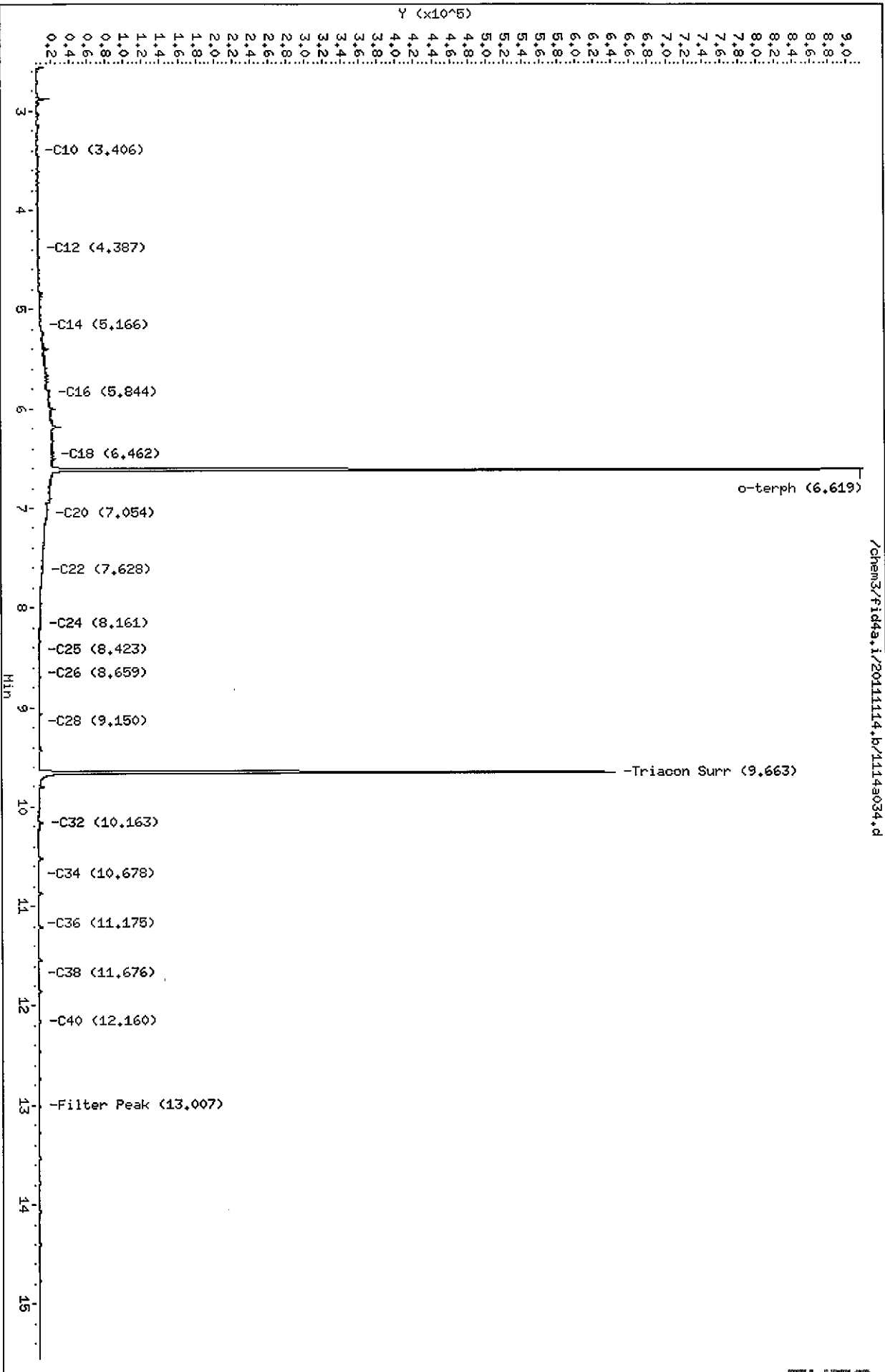
Column phase: RTX-1

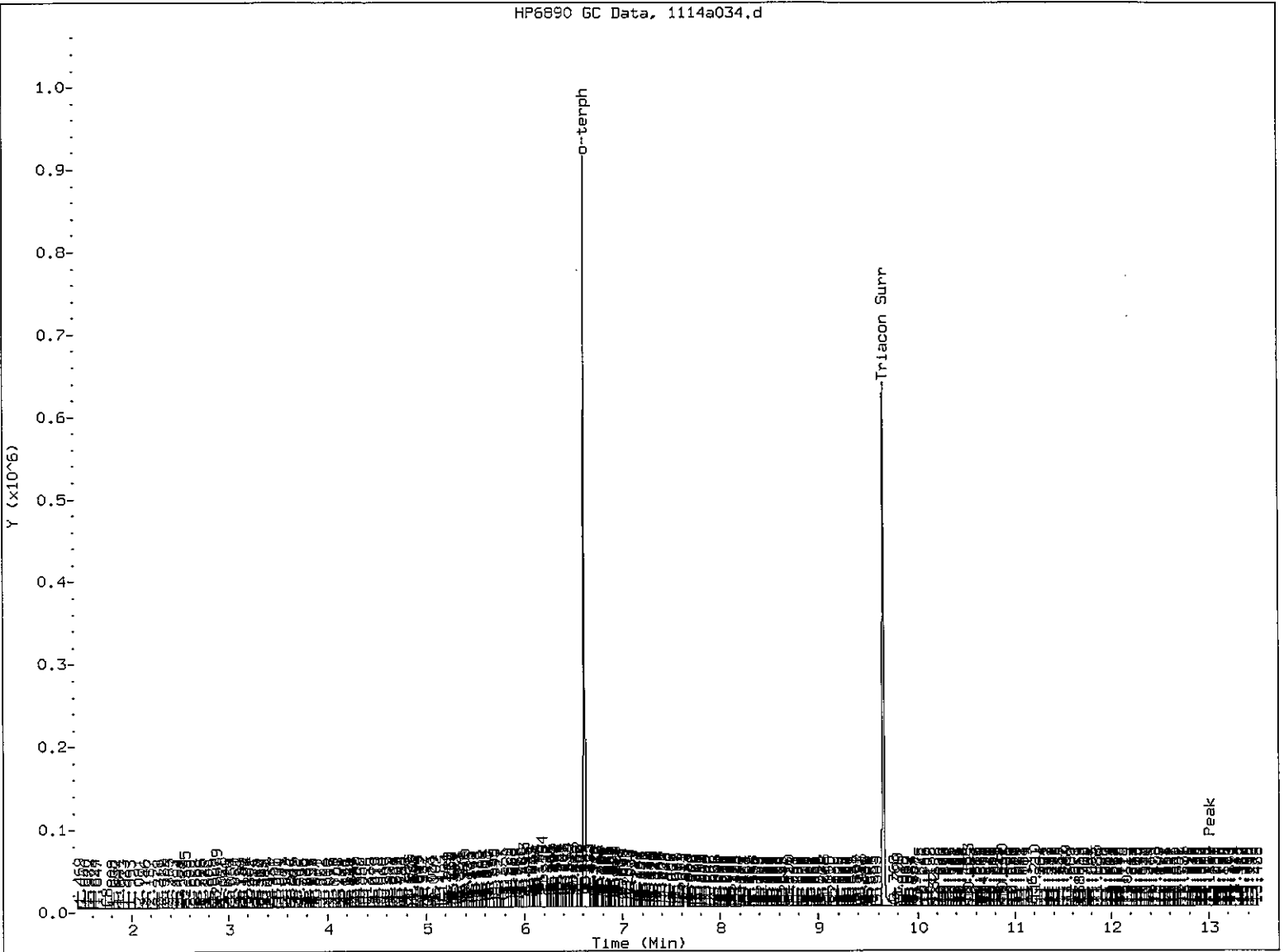
Instrument: fid4a.i

Operator: HS

Column diameter: 0.25

Page 1





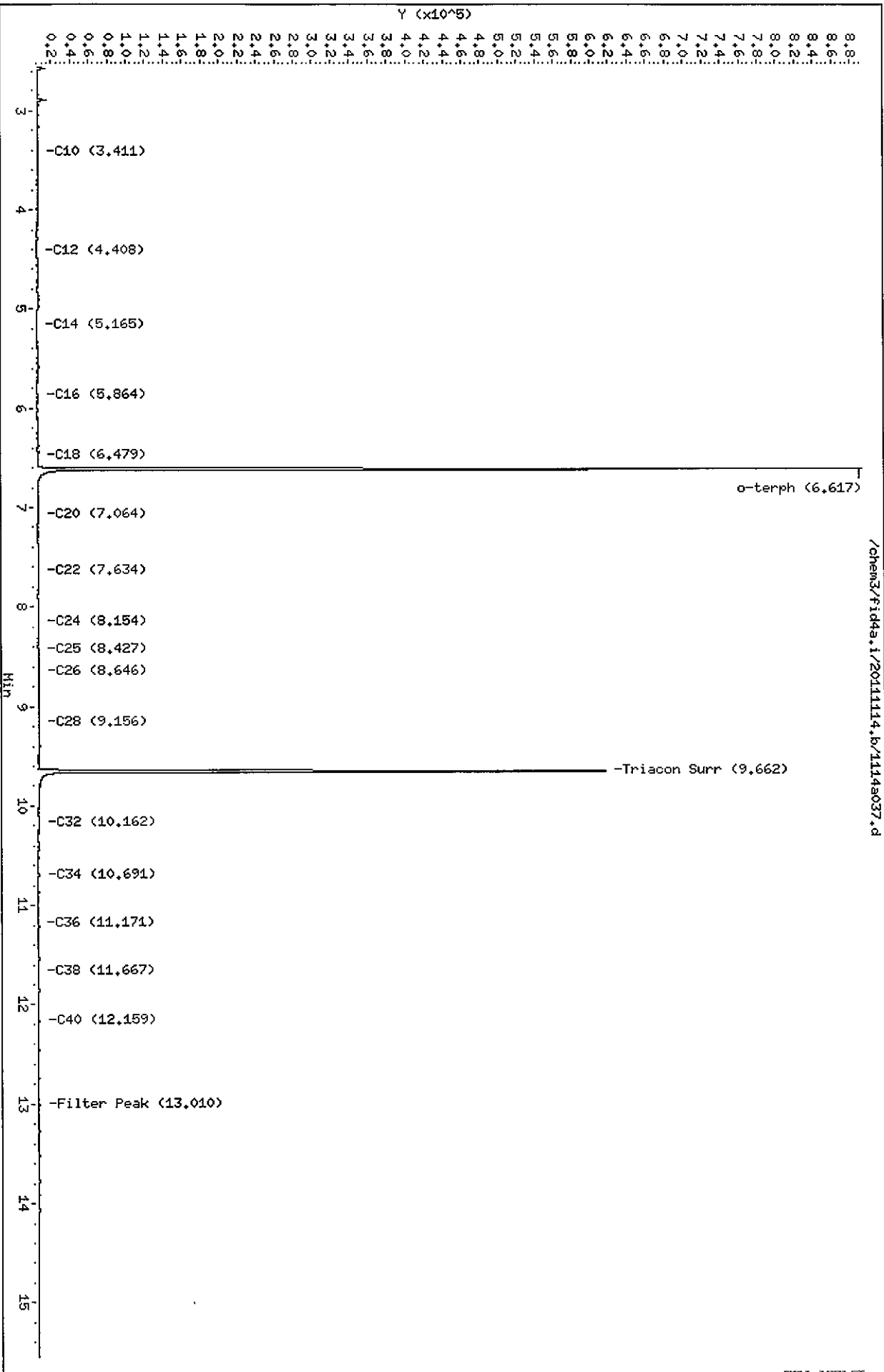
MANUAL INTEGRATION

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

5. Other _____

Analyst: *[Signature]*

Date: *4/10/74*



Data File: /chem3/fid4a.i/20111114.b/11149038.d

Date: 15-NOV-2011 08:54

Client ID: KJ-B55-3

Sample Info: TW590

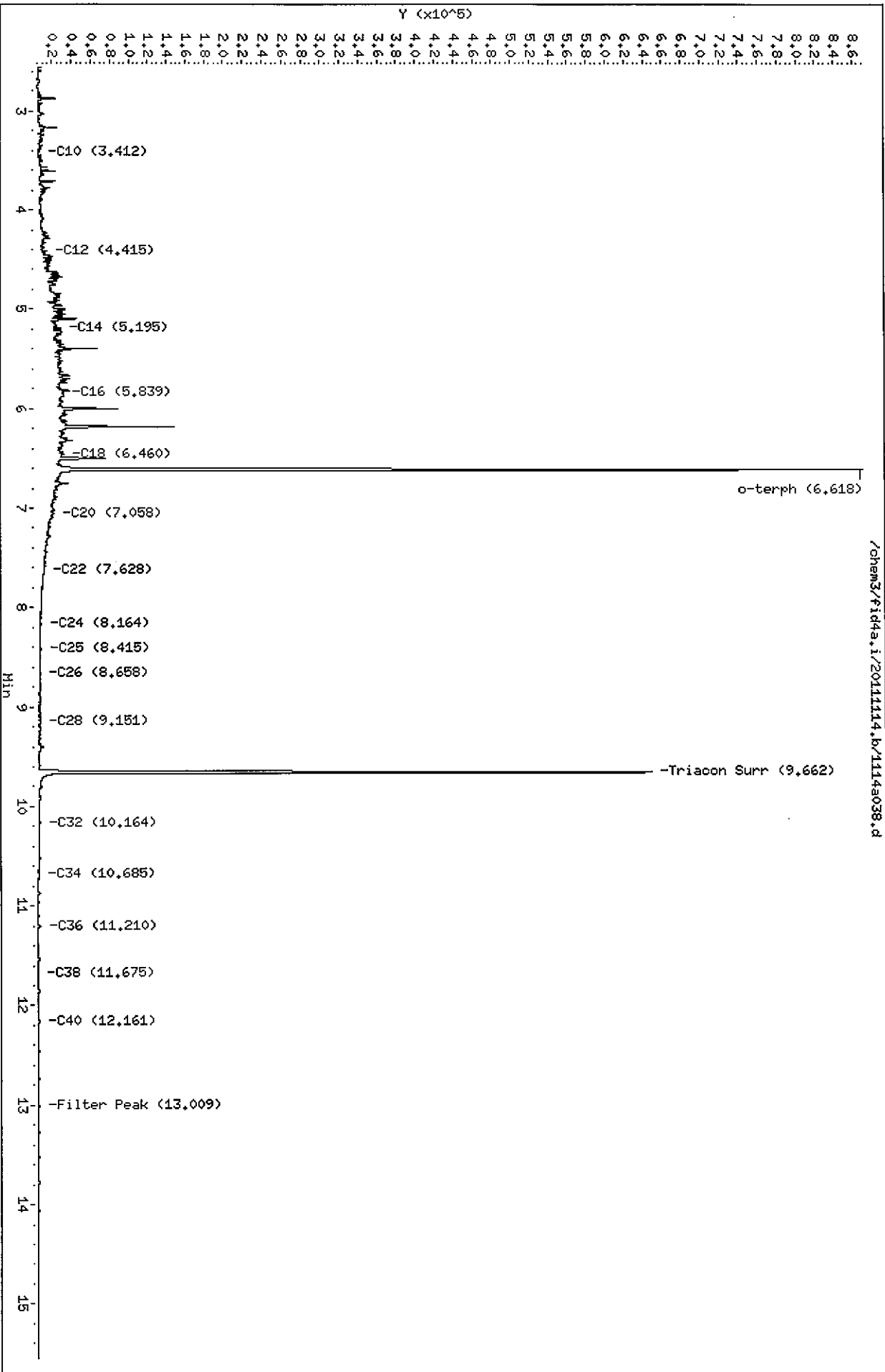
Column phase: RTX-1

Instrument: fid4a.i

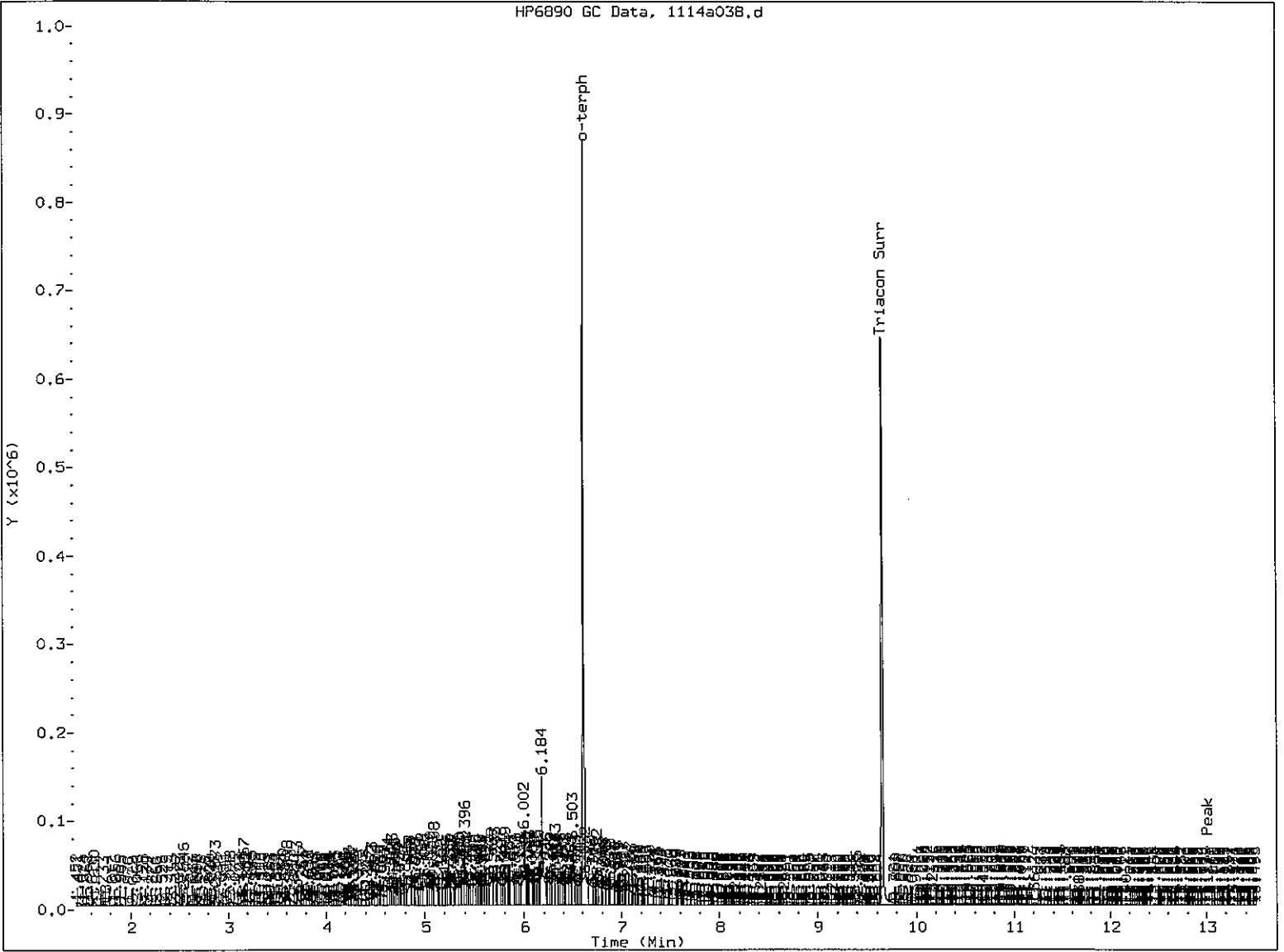
Operator: HS

Column diameter: 0.25

Page 1



TW55 : 00311



MANUAL INTEGRATION

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

5. Other _____

Analyst: *[Signature]*

Date: 7/10/11

Data File: /chem3/fid4a.i/20111114.b/11148039.d

Date: 15-NOV-2011 09:17

Client ID: KJ-B56-3

Sample Info: TMS9R

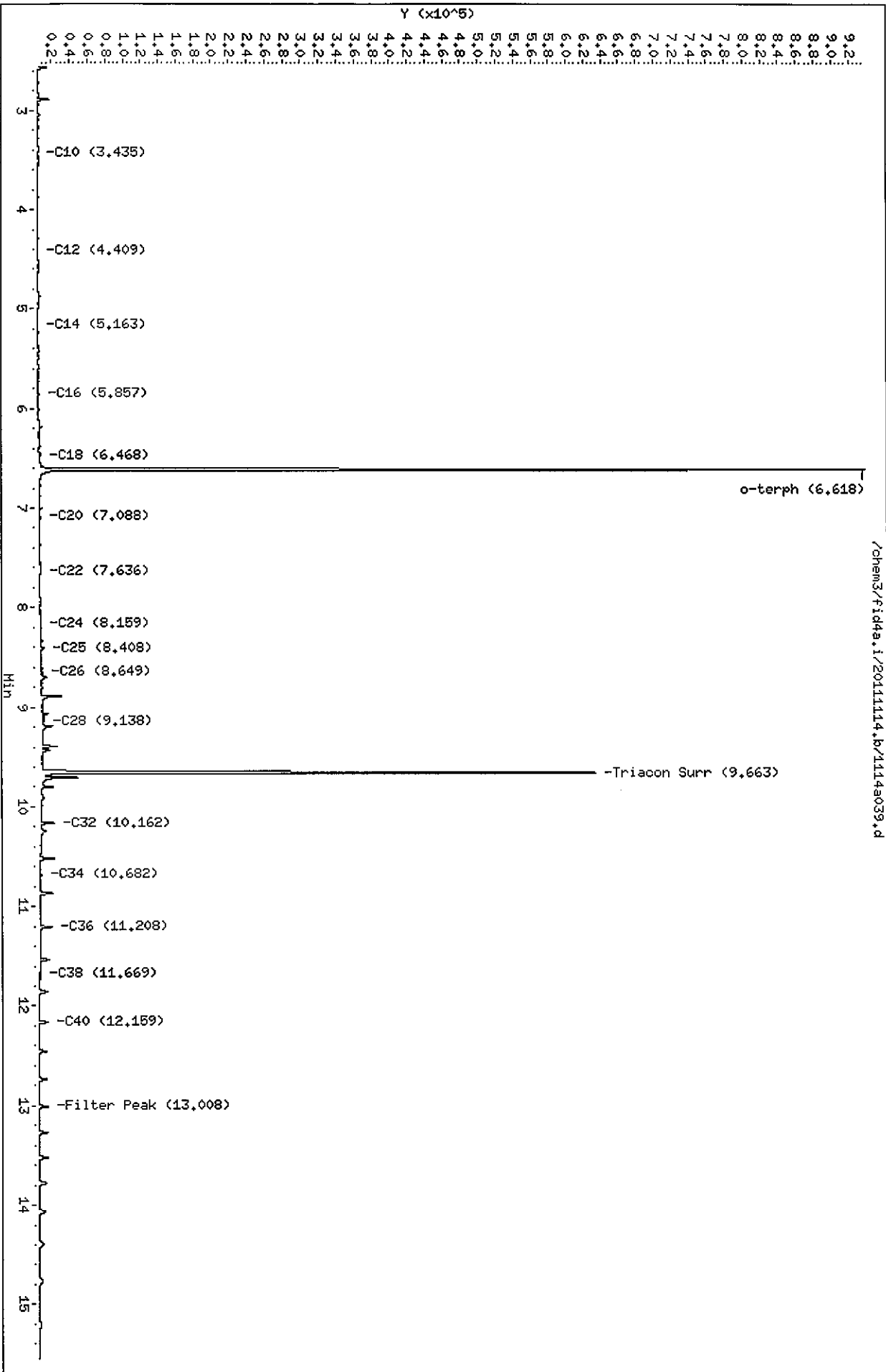
Column phase: RTX-1

Instrument: fid4a.i

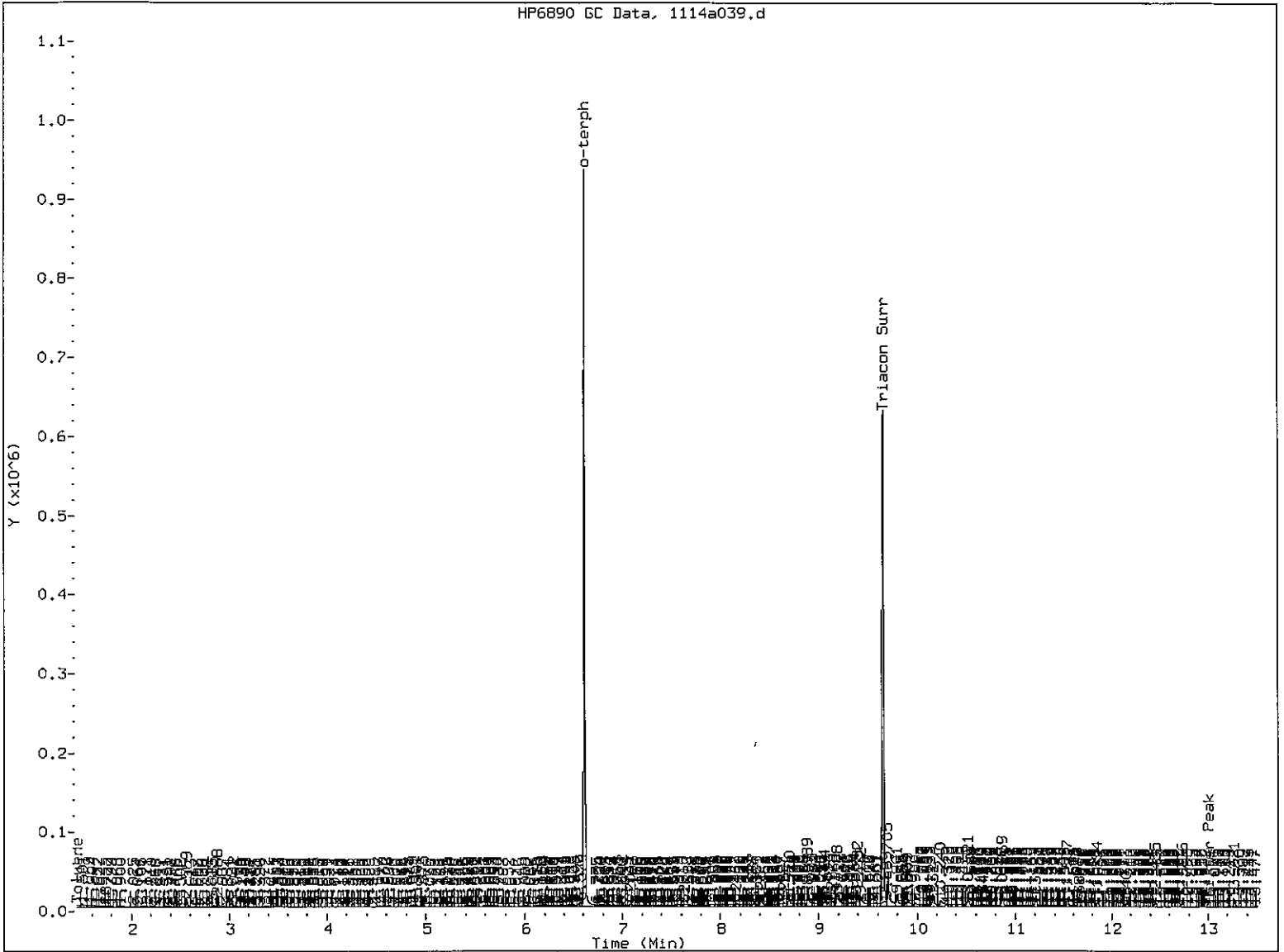
Operator: HS

Column diameter: 0.25

/chem3/fid4a.i/20111114.b/11148039.d



HP6890 GC Data, 1114a039.d



MANUAL INTEGRATION

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

5. Other _____

Analyst: Me

Date: 11/10/6

Data File: /chem3/fid4a.i/20111114.b/1114a040.d

Date: 15-NOV-2011 09:40

Client ID: KJ-B57-5

Sample Info: TMS9S

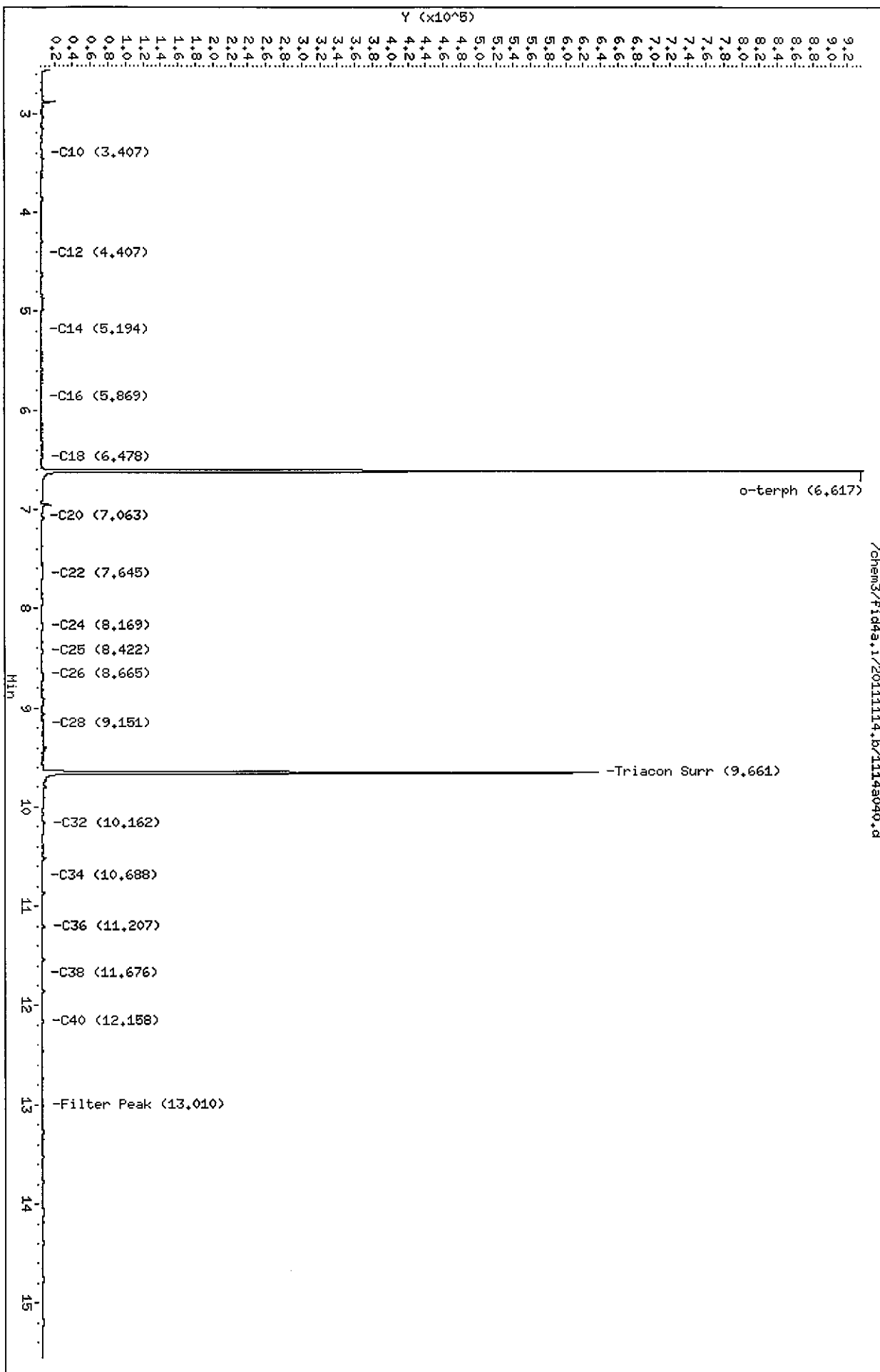
Column phase: RTX-1

Instrument: fid4a.i

Operator: HS

Column diameter: 0.25

Page 1



TW55:00315

Data File: /chem3/fid4a.i/20111114.b/1114a041.d

Date: 15-NOV-2011 10:03

Client ID: KJ-B58-3

Sample Info: TMS9T

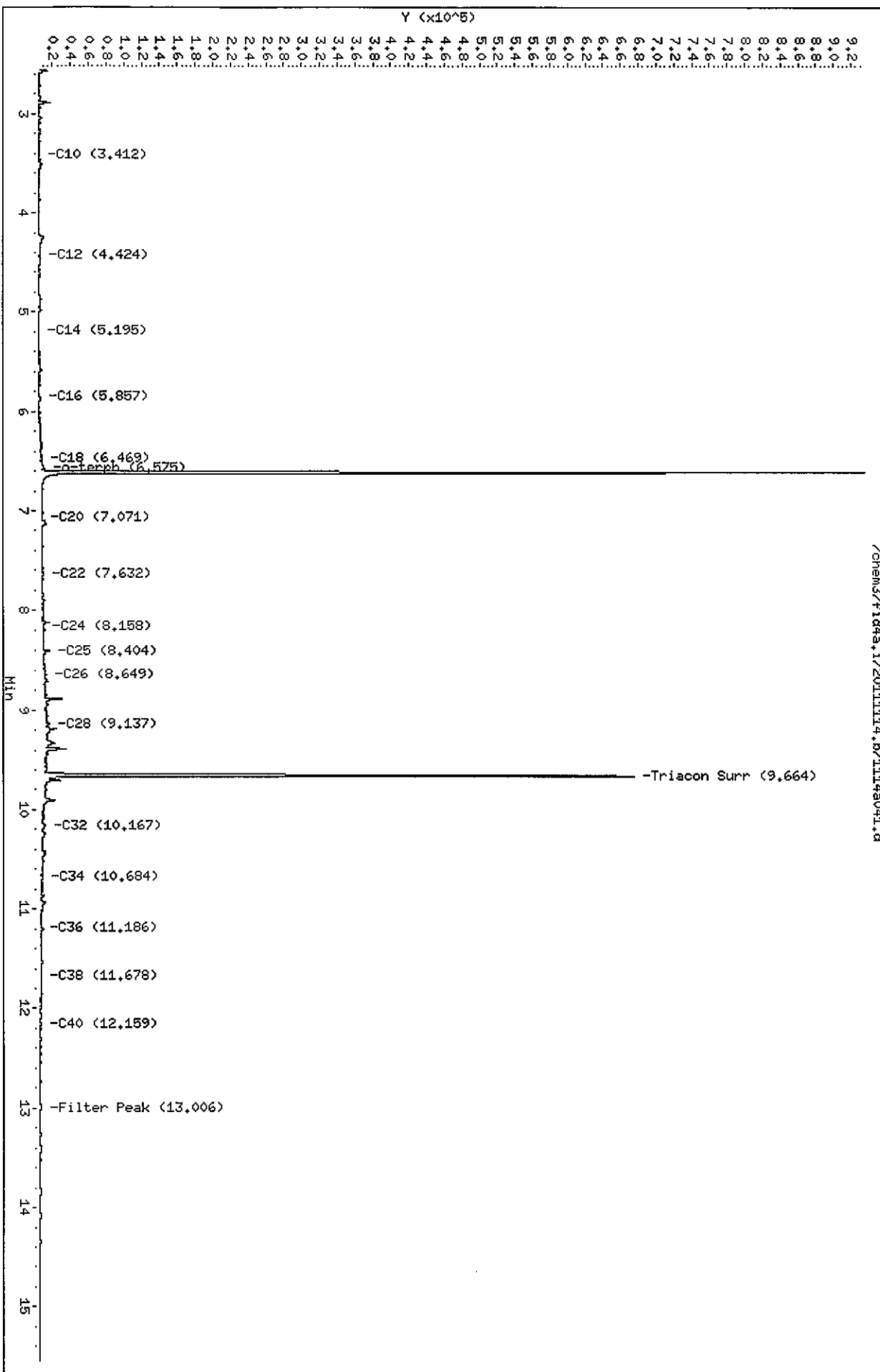
Column phase: RTX-1

Instrument: fid4a.i

Operator: HS

Column diameter: 0.25

Page 1



TW55: 00316

Soil Sample Results



Analytical Resources, Incorporated
Analytical Chemists and Consultants

26 September 2011

Dean Malte
Kennedy Jenks Consultants
32001 32nd Ave S., Suite 100
Federal Way, WA 98001

RE: Client Project: Ecology Cornet Bay
ARI Job No: TM61

Dear Dean:

Please find enclosed the original Chain-of-Custody (COC) records and the final results for the samples from the project referenced above. Four water samples and one trip blank were received on September 16, 2011. The samples were analyzed for BETX/NWTPH-G and Acid/Silica Cleaned NWTPH-Dx as requested. The analyses for total metals, PAHs and VOAs were canceled as instructed.

There were no analytical problems noted.

An electronic copy of this report and all supporting raw data will be kept on file at ARI. Should you have any questions regarding these results, please feel free to call me at any time.

Sincerely,

ANALYTICAL RESOURCES, INC.

Mark D. Harris
Project Manager
206/695-6210
markh@arilabs.com

Enclosures

cc: file TM61

MDH/esj

RECEIVED

SEP 29 2011

K/J Federal Way



Cooler Receipt Form

ARI Client: Kennedy Jenks
COC No(s): _____ (NA)
Assigned ARI Job No: FM 61

Project Name: Ecology Cornot Bay
Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____
Tracking No: 12A1125E0302379455/12A1125E030604727
12A1125E0303281193/12A1125E03069046099

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler? YES NO
Were custody papers included with the cooler? YES NO
Were custody papers properly filled out (ink, signed, etc.) YES NO
Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)..... 3.4 4.4 1.5 4.8
If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: 98941619

Cooler Accepted by: JM Date: 9/16/11 Time: 1145

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO
What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Beegies Foam Block Paper Other: _____
Was sufficient ice used (if appropriate)? NA YES NO
Were all bottles sealed in individual plastic bags? YES NO
Did all bottles arrive in good condition (unbroken)? YES NO
Were all bottle labels complete and legible? YES NO
Did the number of containers listed on COC match with the number of containers received? YES NO
Did all bottle labels and tags agree with custody papers? YES NO
Were all bottles used correct for the requested analyses? YES NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)... NA YES NO
Were all VOC vials free of air bubbles? NA YES NO
Was sufficient amount of sample sent in each bottle? YES NO
Date VOC Trip Blank was made at ARI..... NA 9-8-11
Was Sample Split by ARI: NA YES Date/Time: _____ Equipment: _____ Split by: _____


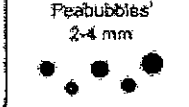
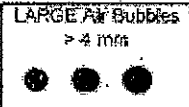
Samples Logged by: TC Date: 9-16-11 Time: 1209

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:
LJ-BZ-RGW 3 "pb" Trip blanks 2 "pb"

By: B Date: 9-16-11

			Small → "sm"
			Peabubbles → "pb"
			Large → "lg"
			Headspace → "hs"

Sample ID Cross Reference Report



ARI Job No: TM61
Client: Kennedy Jenks Consultants
Project Event: N/A
Project Name: Ecology Cornet Bay

Sample ID	ARI Lab ID	ARI LJMS ID	Matrix	Sample Date/Time	VTSR
1. KJ-B2-RGW	TM61A	11-20212	Water	09/12/11 10:10	09/16/11 11:45
2. KJ-B6-RGW	TM61B	11-20213	Water	09/12/11 13:30	09/16/11 11:45
3. KJ-B15-RGW	TM61C	11-20214	Water	09/13/11 11:20	09/16/11 11:45
4. KJ-B21-RGW	TM61D	11-20215	Water	09/13/11 16:00	09/16/11 11:45
5. Trip Blanks	TM61E	11-20216	Water	09/12/11	09/16/11 11:45

Printed 09/16/11

Sample ID Cross Reference Report



ARI Job No: TM61
Client: Kennedy Jenks Consultants
Project Event: N/A
Project Name: Ecology Cornet Bay

Sample ID	ARI Lab ID	ARI LIMS ID	Matrix	Sample Date/Time	VTSR
1. KJ-B2-RGW	TM61A	11-20212	Water	09/12/11 10:10	09/16/11 11:45
2. KJ-B6-RGW	TM61B	11-20213	Water	09/12/11 13:30	09/16/11 11:45
3. KJ-B15-RGW	TM61C	11-20214	Water	09/13/11 11:20	09/16/11 11:45
4. KJ-B21-RGW	TM61D	11-20215	Water	09/13/11 16:00	09/16/11 11:45
5. Trip Blanks	TM61E	11-20216	Water	09/12/11	09/16/11 11:45

Printed 09/19/11



Data Reporting Qualifiers

Effective 2/14/2011

Inorganic Data

- U Indicates that the target analyte was not detected at the reported concentration
- * Duplicate RPD is not within established control limits
- B Reported value is less than the CRDL but \geq the Reporting Limit
- N Matrix Spike recovery not within established control limits
- NA Not Applicable, analyte not spiked
- H The natural concentration of the spiked element is so much greater than the concentration spiked that an accurate determination of spike recovery is not possible
- L Analyte concentration is ≤ 5 times the Reporting Limit and the replicate control limit defaults to ± 1 RL instead of the normal 20% RPD

Organic Data

- U Indicates that the target analyte was not detected at the reported concentration
- * Flagged value is not within established control limits
- B Analyte detected in an associated Method Blank at a concentration greater than one-half of ARI's Reporting Limit or 5% of the regulatory limit or 5% of the analyte concentration in the sample.
- J Estimated concentration when the value is less than ARI's established reporting limits
- D The spiked compound was not detected due to sample extract dilution
- E Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.
- Q Indicates a detected analyte with an initial or continuing calibration that does not meet established acceptance criteria ($< 20\%$ RSD, $< 20\%$ Drift or minimum RRF).



- S Indicates an analyte response that has saturated the detector. The calculated concentration is not valid; a dilution is required to obtain valid quantification of the analyte
- NA The flagged analyte was not analyzed for
- NR Spiked compound recovery is not reported due to chromatographic interference
- NS The flagged analyte was not spiked into the sample
- M Estimated value for an analyte detected and confirmed by an analyst but with low spectral match parameters. This flag is used only for GC-MS analyses
- M2 The sample contains PCB congeners that do not match any standard Aroclor pattern. The PCBs are identified and quantified as the Aroclor whose pattern most closely matches that of the sample. The reported value is an estimate.
- N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification"
- Y The analyte is not detected at or above the reported concentration. The reporting limit is raised due to chromatographic interference. The Y flag is equivalent to the U flag with a raised reporting limit.
- EMPC Estimated Maximum Possible Concentration (EMPC) defined in EPA Statement of Work DLM02.2 as a value "calculated for 2,3,7,8-substituted isomers for which the quantitation and /or confirmation ion(s) has signal to noise in excess of 2.5, but does not meet identification criteria" **(Dioxin/Furan analysis only)**
- C The analyte was positively identified on only one of two chromatographic columns. Chromatographic interference prevented a positive identification on the second column
- P The analyte was detected on both chromatographic columns but the quantified values differ by $\geq 40\%$ RPD with no obvious chromatographic interference
- X Analyte signal includes interference from polychlorinated diphenyl ethers. **(Dioxin/Furan analysis only)**
- Z Analyte signal includes interference from the sample matrix or perfluorokerosene ions. **(Dioxin/Furan analysis only)**



Geotechnical Data

- A The total of all fines fractions. This flag is used to report total fines when only sieve analysis is requested and balances total grain size with sample weight.
- F Samples were frozen prior to particle size determination
- SM Sample matrix was not appropriate for the requested analysis. This normally refers to samples contaminated with an organic product that interferes with the sieving process and/or moisture content, porosity and saturation calculations
- SS Sample did not contain the proportion of "fines" required to perform the pipette portion of the grain size analysis
- W Weight of sample in some pipette aliquots was below the level required for accurate weighting

ORGANICS ANALYSIS DATA SHEET

TOTAL DIESEL RANGE HYDROCARBONS

NWTPHD by GC/FID-Silica and Acid Cleaned

Page 1 of 1

Matrix: Water

QC Report No: TM61-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Data Release Authorized: *AS*

Reported: 09/21/11

ARI ID	Sample ID	Extraction Date	Analysis Date	EFV DL	Range	RL	Result
MB-091711 11-20212	Method Blank HC ID: ---	09/17/11	09/20/11	1.00	Diesel	0.10	< 0.10 U
			FID4A	1.0	Motor Oil	0.20	< 0.20 U
					o-Terphenyl		82.8%
TM61A 11-20212	KJ-B2-RGW HC ID: ---	09/17/11	09/20/11	1.00	Diesel	0.10	< 0.10 U
			FID4A	1.0	Motor Oil	0.20	< 0.20 U
					o-Terphenyl		63.0%
TM61B 11-20213	KJ-B6-RGW HC ID: ---	09/17/11	09/20/11	1.00	Diesel	0.10	< 0.10 U
			FID4A	1.0	Motor Oil	0.20	< 0.20 U
					o-Terphenyl		79.1%
TM61C 11-20214	KJ-B15-RGW HC ID: ---	09/17/11	09/20/11	1.00	Diesel	0.10	< 0.10 U
			FID4A	1.0	Motor Oil	0.20	< 0.20 U
					o-Terphenyl		83.2%
TM61D 11-20215	KJ-B21-RGW HC ID: DIESEL	09/17/11	09/20/11	1.00	Diesel	0.10	3.6
			FID4A	1.0	Motor Oil	0.20	< 0.20 U
					o-Terphenyl		64.8%

Reported in mg/L (ppm)

EFV-Effective Final Volume in mL.

DL-Dilution of extract prior to analysis.

RL-Reporting limit.

Diesel quantitation on total peaks in the range from C12 to C24.

Motor Oil quantitation on total peaks in the range from C24 to C38.

HC ID: DRO/RRO indicate results of organics or additional hydrocarbons in ranges are not identifiable.

Data File: /chem3/fid4a.i/20110920.b/0920a006.d

Date: 20-SEP-2011 13:51

Client ID: TH61HBM1

Sample Info: TH61HBM1

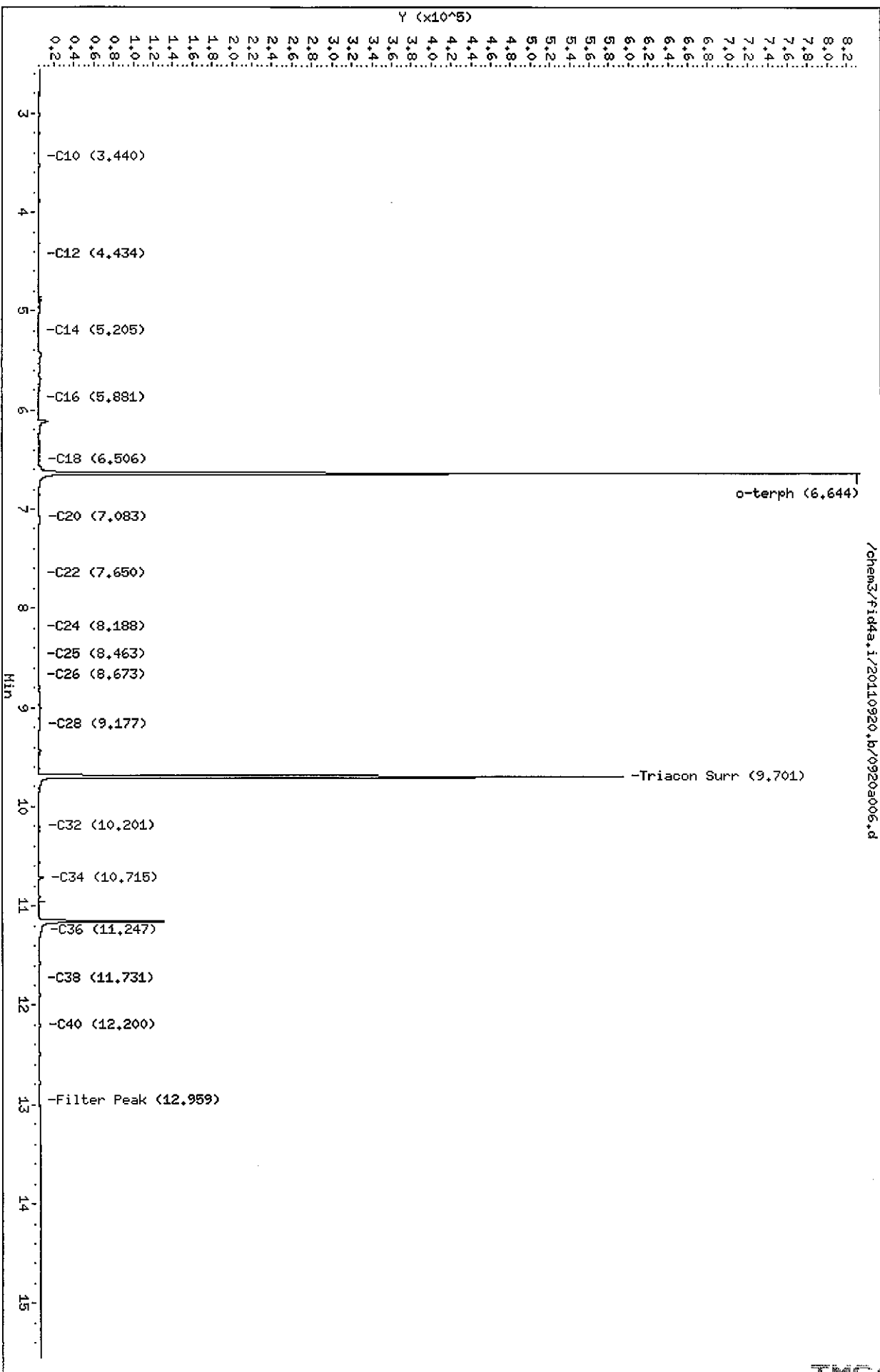
Column phase: RTX-1

Instrument: fid4a.i

Operator: HS

Column diameter: 0.25

/chem3/fid4a.i/20110920.b/0920a006.d



00010

Data File: /chem3/fid4a.i/20110920.b/0920a012.d

Date: 20-SEP-2011 16:10

Client ID: K3-B21-RGM

Sample Info: TM61D

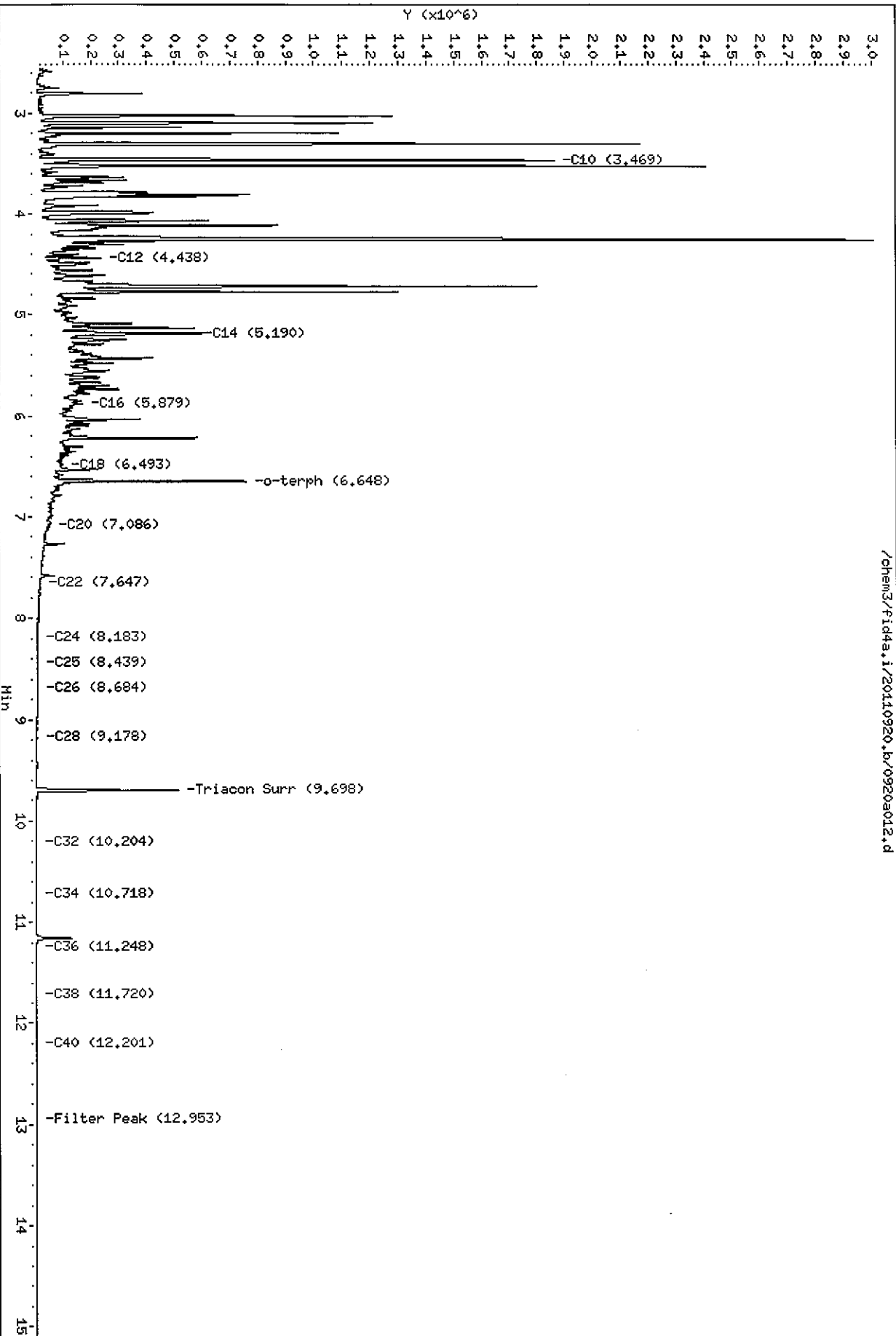
Column phase: RTX-1

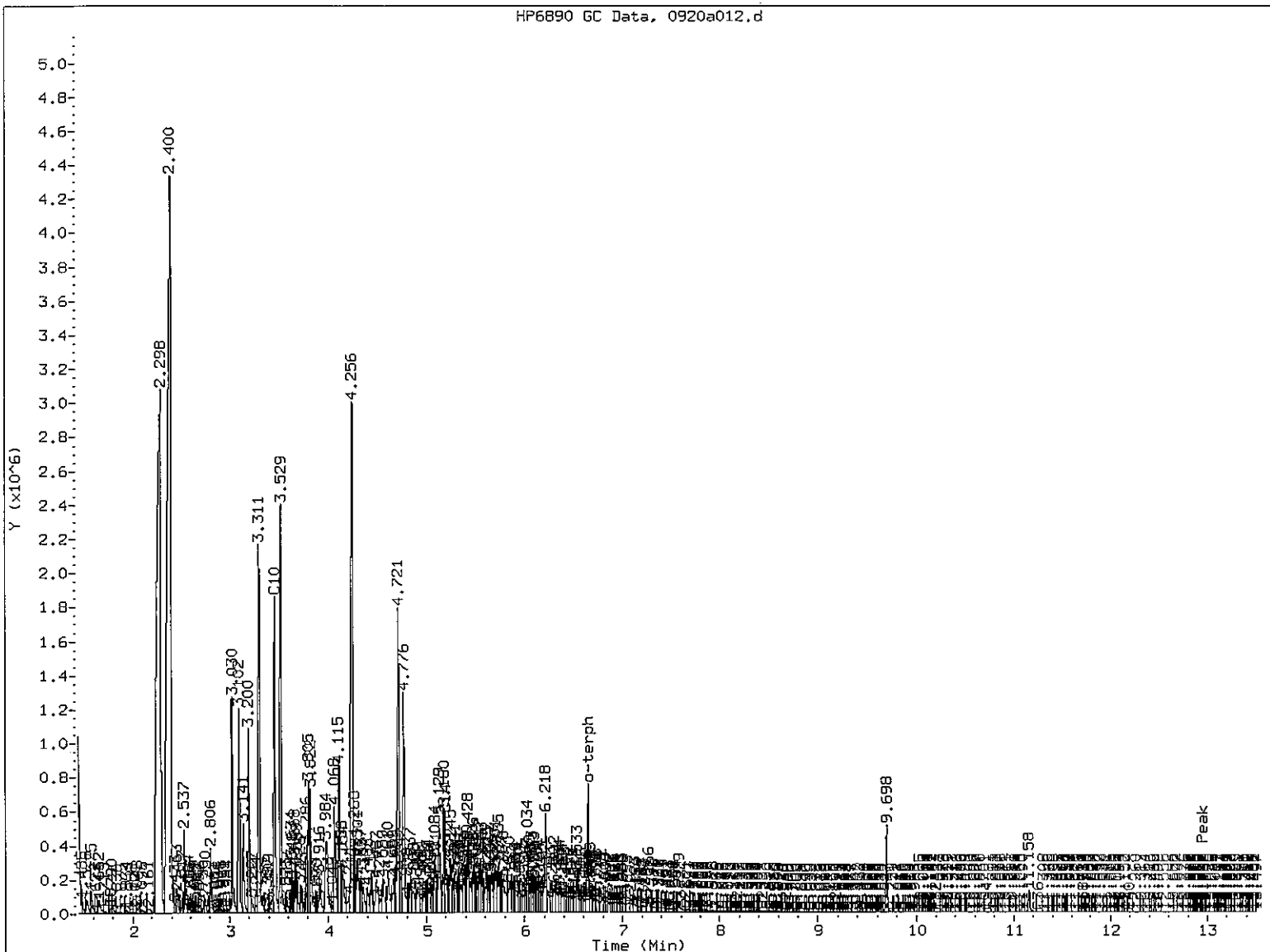
Instrument: fid4a.i

Operator: HS

Column diameter: 0.25

/chem3/fid4a.i/20110920.b/0920a012.d





MANUAL INTEGRATION

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

5. Other _____

Analyst: MS

Date: 9/20/11

CLEANED TPHD SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: TM61-Kennedy Jenks Consultants
Project: Ecology Cornet Bay

<u>Client ID</u>	<u>OTER</u>	<u>TOT OUT</u>
MB-091711	82.8%	0
LCS-091711	80.0%	0
KJ-B2-RGW	63.0%	0
KJ-B6-RGW	79.1%	0
KJ-B15-RGW	83.2%	0
KJ-B21-RGW	64.8%	0

LCS/MB LIMITS QC LIMITS

(OTER) = o-Terphenyl

(50-150)

(50-150)

Prep Method: SW3510C
Log Number Range: 11-20212 to 11-20215

ORGANICS ANALYSIS DATA SHEET

NWTPHD by GC/FID-Silica and Acid Cleaned

Page 1 of 1

Sample ID: LCS-091711

LAB CONTROL

Lab Sample ID: LCS-091711

QC Report No: TM61-Kennedy Jenks Consultants

LIMS ID: 11-20212

Project: Ecology Cornet Bay

Matrix: Water

Data Release Authorized: *[Signature]*

Date Sampled: 09/12/11

Reported: 09/21/11

Date Received: 09/16/11

Date Extracted: 09/17/11

Sample Amount: 500 mL

Date Analyzed: 09/20/11 14:14

Final Extract Volume: 1.0 mL

Instrument/Analyst: FID/MS

Dilution Factor: 1.00

Range	Lab Control	Spike Added	Recovery
Diesel	2.57	3.00	85.7%

TPHD Surrogate Recovery

o-Terphenyl	80.0%
-------------	-------

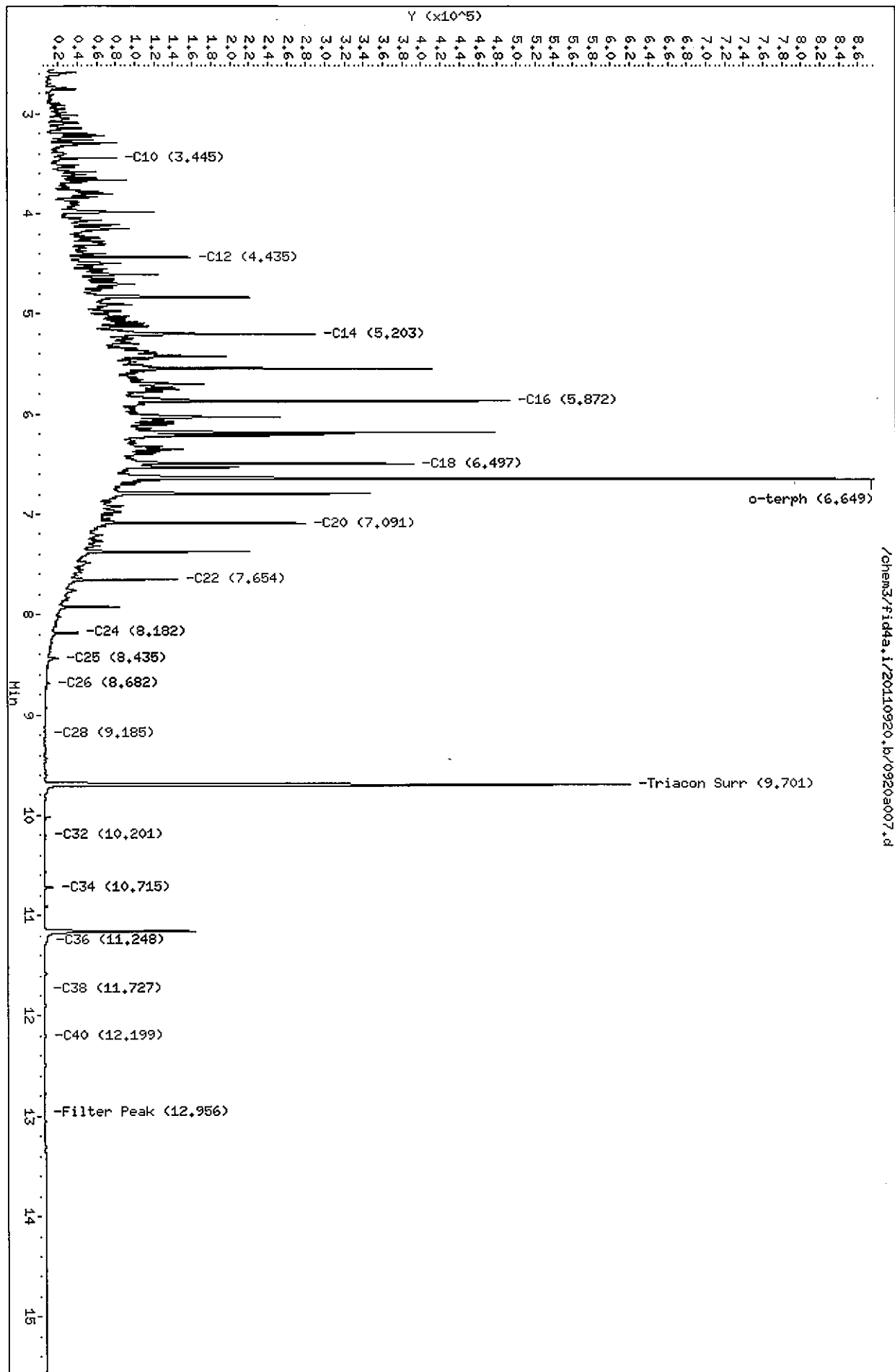
Results reported in mg/L

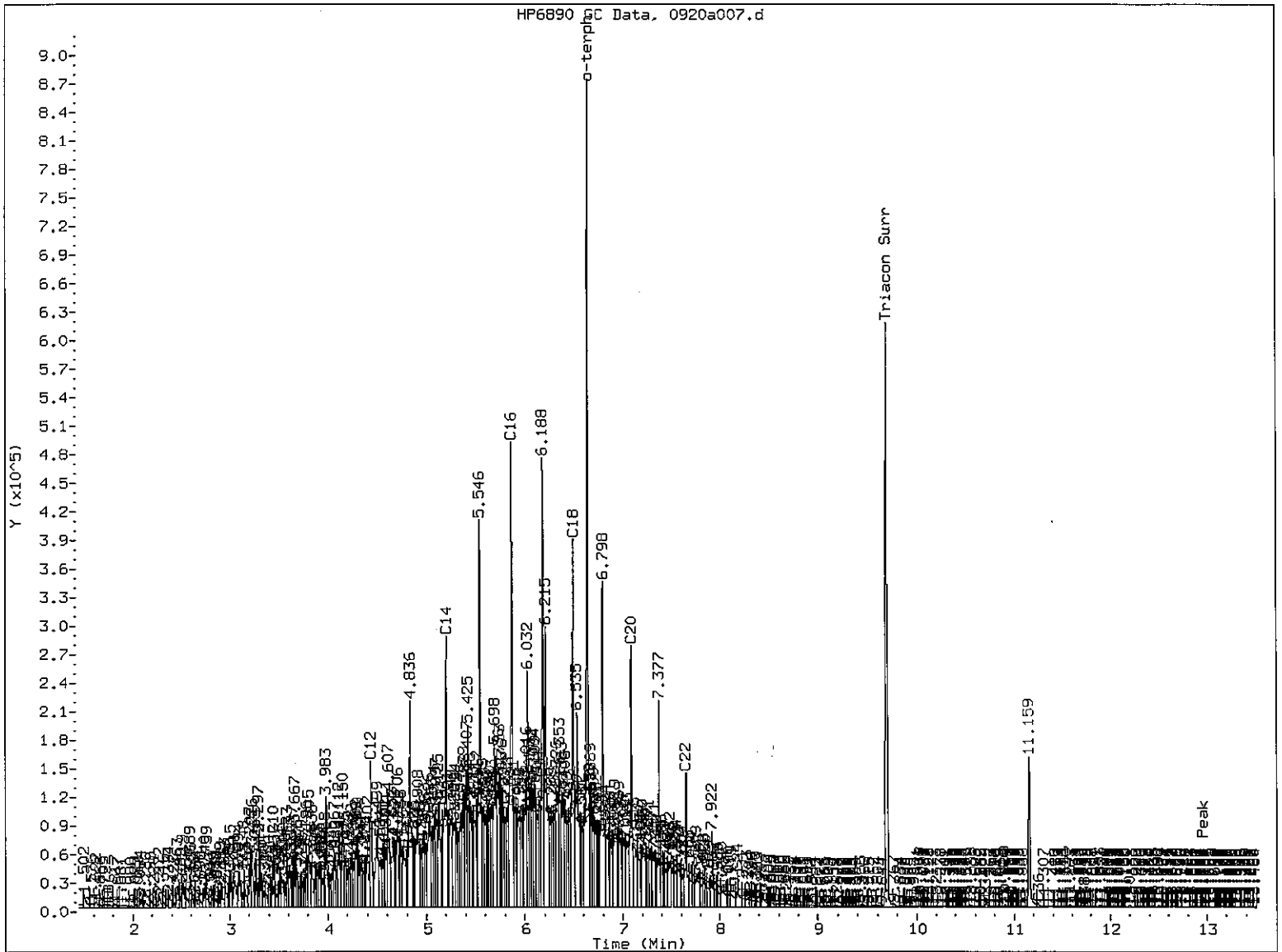
Data File: /chem3/fid4a.i/20110920.b/0920a007.d
Date: 20-SEP-2011 14:14
Client ID: TM61LCSM1
Sample Info: TM61LCSM1

Column phase: RTX-1

Instrument: fid4a.i
Operator: HS
Column diameter: 0.25

/chem3/fid4a.i/20110920.b/0920a007.d





MANUAL INTEGRATION

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: [Signature]

Date: 7/21/6

ORGANICS ANALYSIS DATA SHEET
 BETX by Method SW8021BMod
 TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: MB-092011
 METHOD BLANK

Lab Sample ID: MB-092011
 LIMS ID: 11-20212
 Matrix: Water
 Data Release Authorized: *MW*
 Reported: 09/23/11

QC Report No: TM61-Kennedy Jenks Consultants
 Project: Ecology Cornet Bay
 Event: NA
 Date Sampled: NA
 Date Received: NA

Date Analyzed: 09/20/11 13:43
 Instrument/Analyst: PID1/MH

Purge Volume: 5.0 mL
 Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
71-43-2	Benzene	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
179601-23-1	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Gasoline Range Hydrocarbons 0.25 < 0.25 U GAS ID ---

BETX Surrogate Recovery

Trifluorotoluene	90.2%
Bromobenzene	86.7%

Gasoline Surrogate Recovery

Trifluorotoluene	99.8%
Bromobenzene	94.8%

BETX values reported in µg/L (ppb)
 Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.
 Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Data File: /chem3/pid1.i/vpcc0920-2.b/0920006.d

Date: 20-SEP-2011 13:43

Client ID:

Sample Info: HB0920

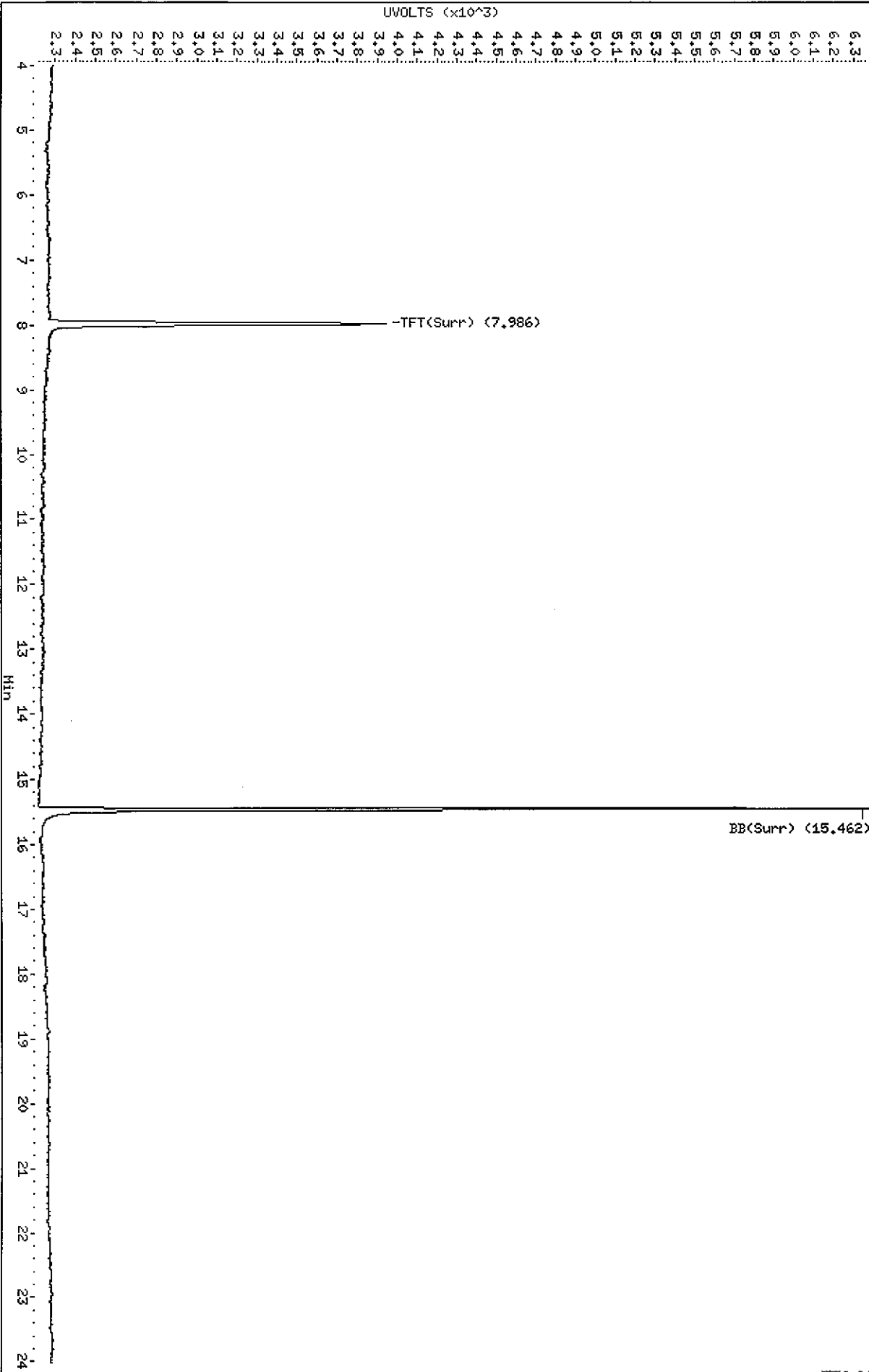
Instrument: pid1.i

Operator: MH

Column diameter: 0.18

Column phase: RTX 502-2 PID

/chem3/pid1.i/vpcc0920-2.b/0920006.d/0920006.cdf





ORGANICS ANALYSIS DATA SHEET
 BETX by Method SW8021BMod
 TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: MB-092211
 METHOD BLANK

Lab Sample ID: MB-092211
 LIMS ID: 11-20213
 Matrix: Water
 Data Release Authorized: *MMW*
 Reported: 09/23/11

QC Report No: TM61-Kennedy Jenks Consultants
 Project: Ecology Cornet Bay
 Event: NA
 Date Sampled: NA
 Date Received: NA

Date Analyzed: 09/22/11 07:41
 Instrument/Analyst: PID3/MH

Purge Volume: 5.0 mL
 Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
71-43-2	Benzene	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
179601-23-1	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Gasoline Range Hydrocarbons 0.25 < 0.25 U GAS ID ---

BETX Surrogate Recovery

Trifluorotoluene	90.1%
Bromobenzene	87.6%

Gasoline Surrogate Recovery

Trifluorotoluene	94.6%
Bromobenzene	93.7%

BETX values reported in µg/L (ppb)
 Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.
 Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Data File: /chem3/pid3.i/20110922-2.b/0922a006.d

Date: 22-SEP-2011 07:41

Client ID:

Sample Info: HB0922

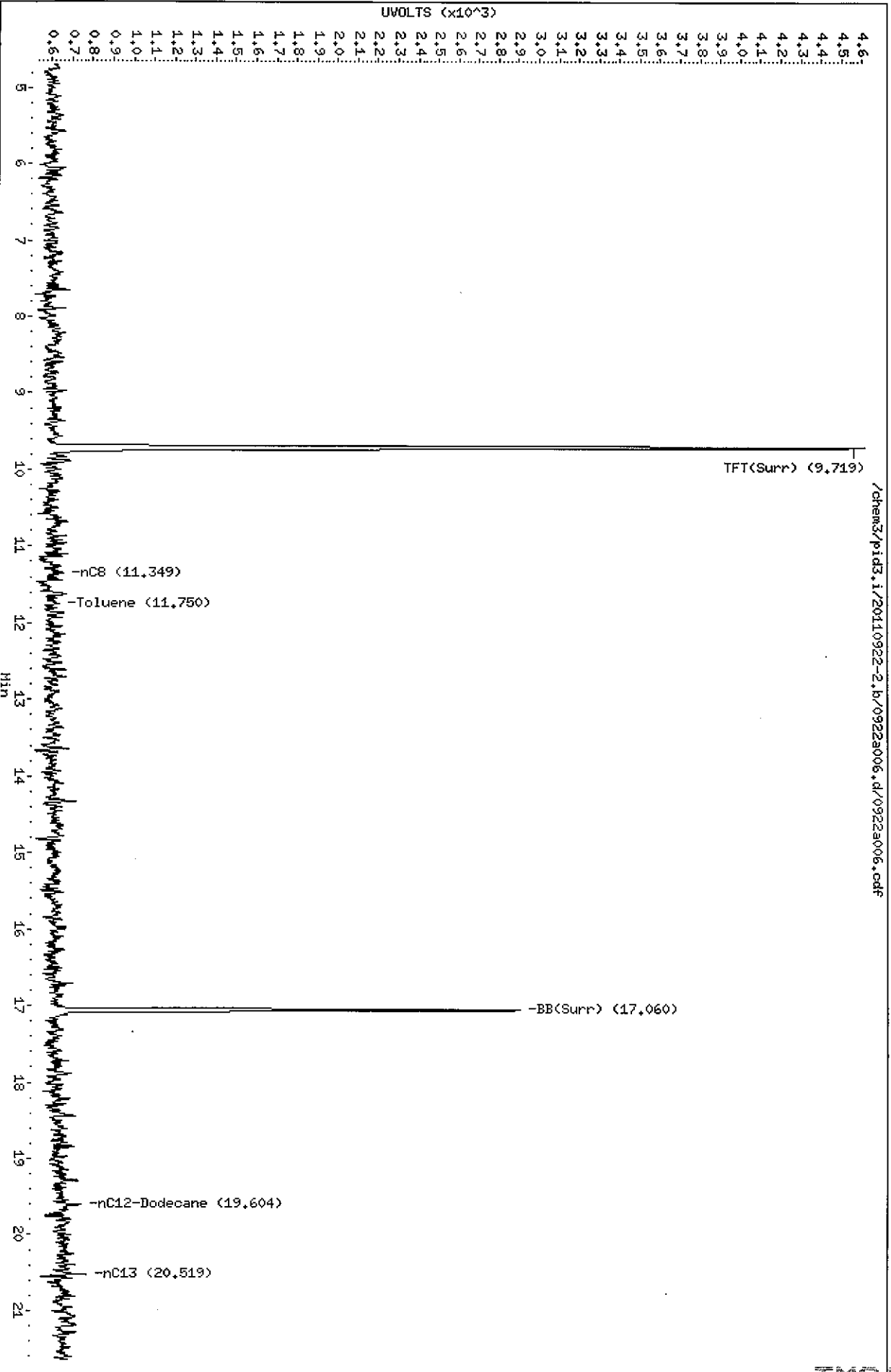
Column phase: RTX 502-2 FID

Instrument: pid3.i

Operator: NH

Column diameter: 0.18

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TMSI : 00021

ORGANICS ANALYSIS DATA SHEET
 BETX by Method SW8021BMod
 TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: KJ-B2-RGW
 SAMPLE

Lab Sample ID: TM61A
 LIMS ID: 11-20212
 Matrix: Water
 Data Release Authorized: *MMW*
 Reported: 09/23/11

QC Report No: TM61-Kennedy Jenks Consultants
 Project: Ecology Cornet Bay
 Event: NA
 Date Sampled: 09/12/11
 Date Received: 09/16/11

Date Analyzed: 09/20/11 15:20
 Instrument/Analyst: PID1/MH
 Purge Volume: 5.0 mL
 Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
71-43-2	Benzene	1.0	900 E
108-88-3	Toluene	1.0	3.1
100-41-4	Ethylbenzene	1.0	17
179601-23-1	m,p-Xylene	1.0	17
95-47-6	o-Xylene	1.0	3.2

Gasoline Range Hydrocarbons 0.25 0.62 GAS ID
GAS/GRO

BETX Surrogate Recovery

Trifluorotoluene	91.9%
Bromobenzene	85.8%

Gasoline Surrogate Recovery

Trifluorotoluene	101%
Bromobenzene	94.1%

BETX values reported in µg/L (ppb)
 Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.
 Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Data File: /chem3/pidd1.i/vpcc0920-1.b/0920s009.d
Date: 20-SEP-2011 15:20
Client ID: KJ-B2-RGM
Sample Info: TH61A

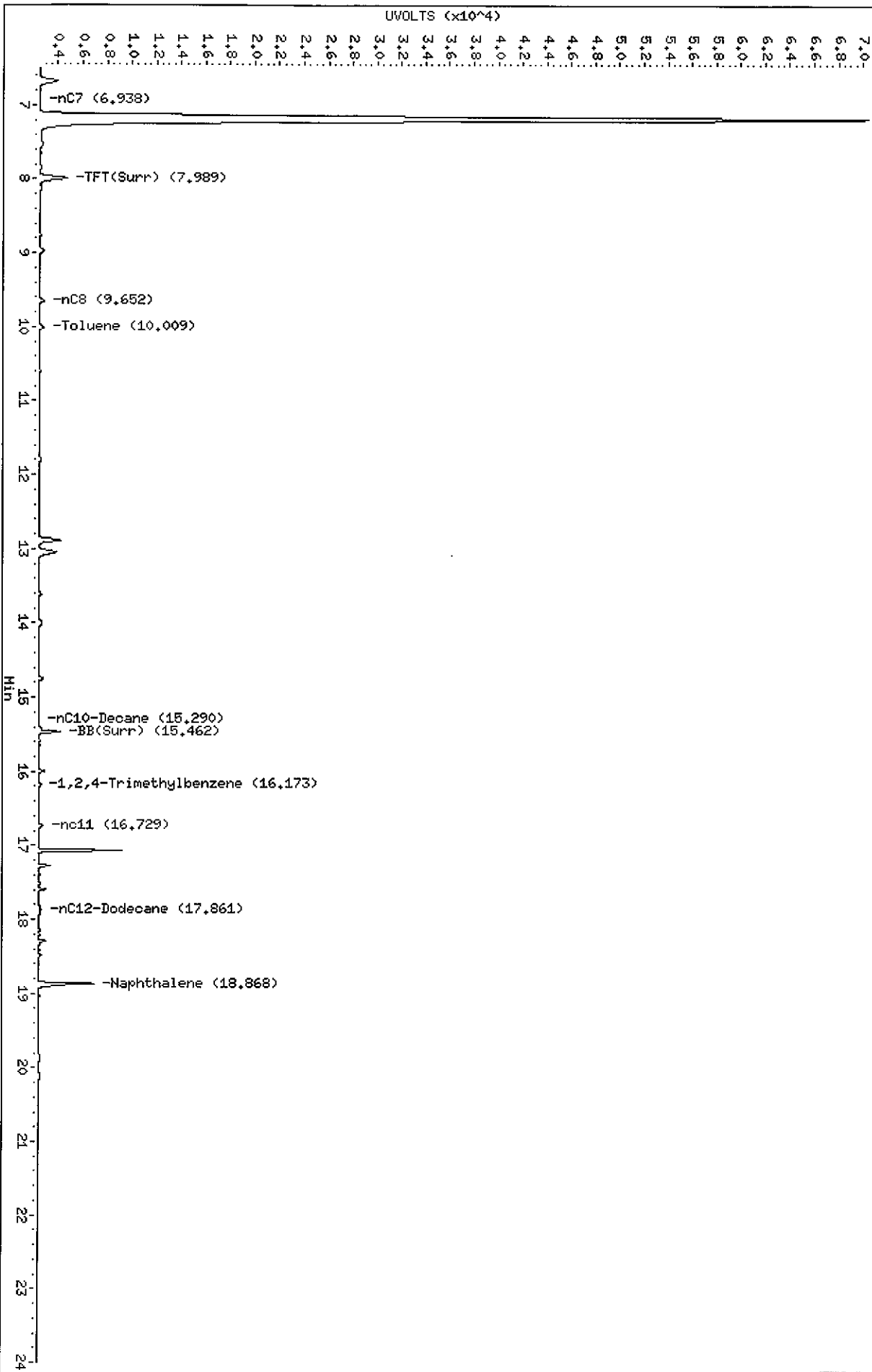
Instrument: pidd1.i

Page 1

Column phase: RTX 502-2 FID

Operator: MH
Column diameter: 0.18

/chem3/pidd1.i/vpcc0920-1.b/0920s009.d/0920s009.pdf



TH61A 0002F

Data File: /chem3/pid1.i/vpcc0920-2.b/0920a009.d

Date: 20-SEP-2011 15:20

Client ID:

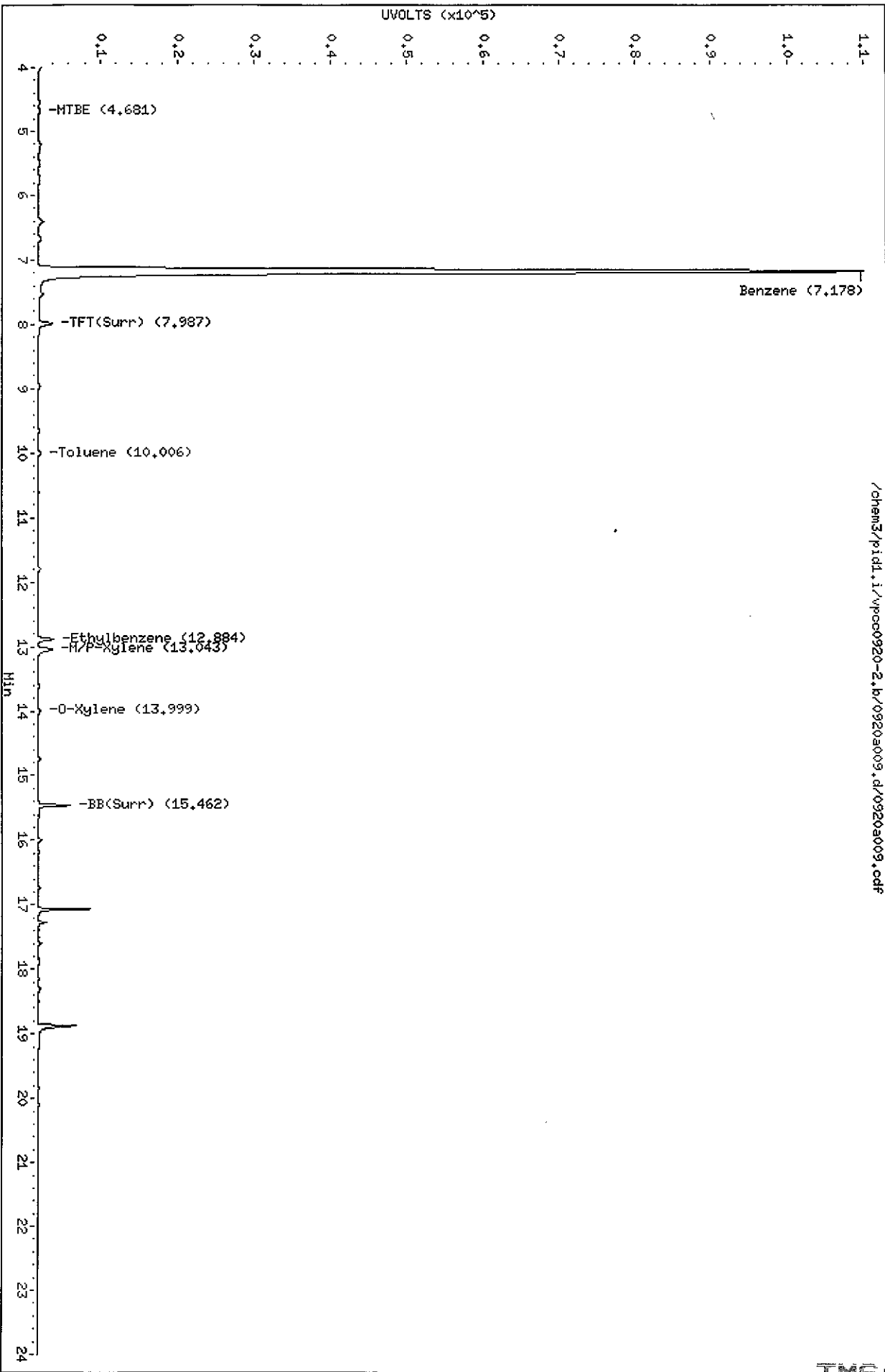
Sample Info: TM61A

Column phase: RTX 502-2 PID

Instrument: pid1.i

Operator: MH

Column diameter: 0.18



/chem3/pid1.i/vpcc0920-2.b/0920a009.d/0920a009.cdf



ORGANICS ANALYSIS DATA SHEET
 BETX by Method SW8021BMod
 TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: KJ-B2-RGW
 DILUTION

Lab Sample ID: TM61A
 LIMS ID: 11-20212
 Matrix: Water
 Data Release Authorized: *TWJ*
 Reported: 09/23/11

QC Report No: TM61-Kennedy Jenks Consultants
 Project: Ecology Cornet Bay
 Event: NA
 Date Sampled: 09/12/11
 Date Received: 09/16/11

Date Analyzed: 09/22/11 14:41
 Instrument/Analyst: PID3/MH

Purge Volume: 5.0 mL
 Dilution Factor: 10.0

CAS Number	Analyte	RL	Result	
71-43-2	Benzene	10	1,400	
108-88-3	Toluene	10	< 10 U	
100-41-4	Ethylbenzene	10	19	
179601-23-1	m,p-Xylene	10	22	
95-47-6	o-Xylene	10	< 10 U	
Gasoline Range Hydrocarbons			2.5	< 2.5 U
GAS ID ---				
BETX Surrogate Recovery				
<hr/>				
	Trifluorotoluene	100%		
	Bromobenzene	96.5%		
Gasoline Surrogate Recovery				
<hr/>				
	Trifluorotoluene	103%		
	Bromobenzene	103%		

BETX values reported in µg/L (ppb)
 Gasoline values reported in mg/L (ppm)

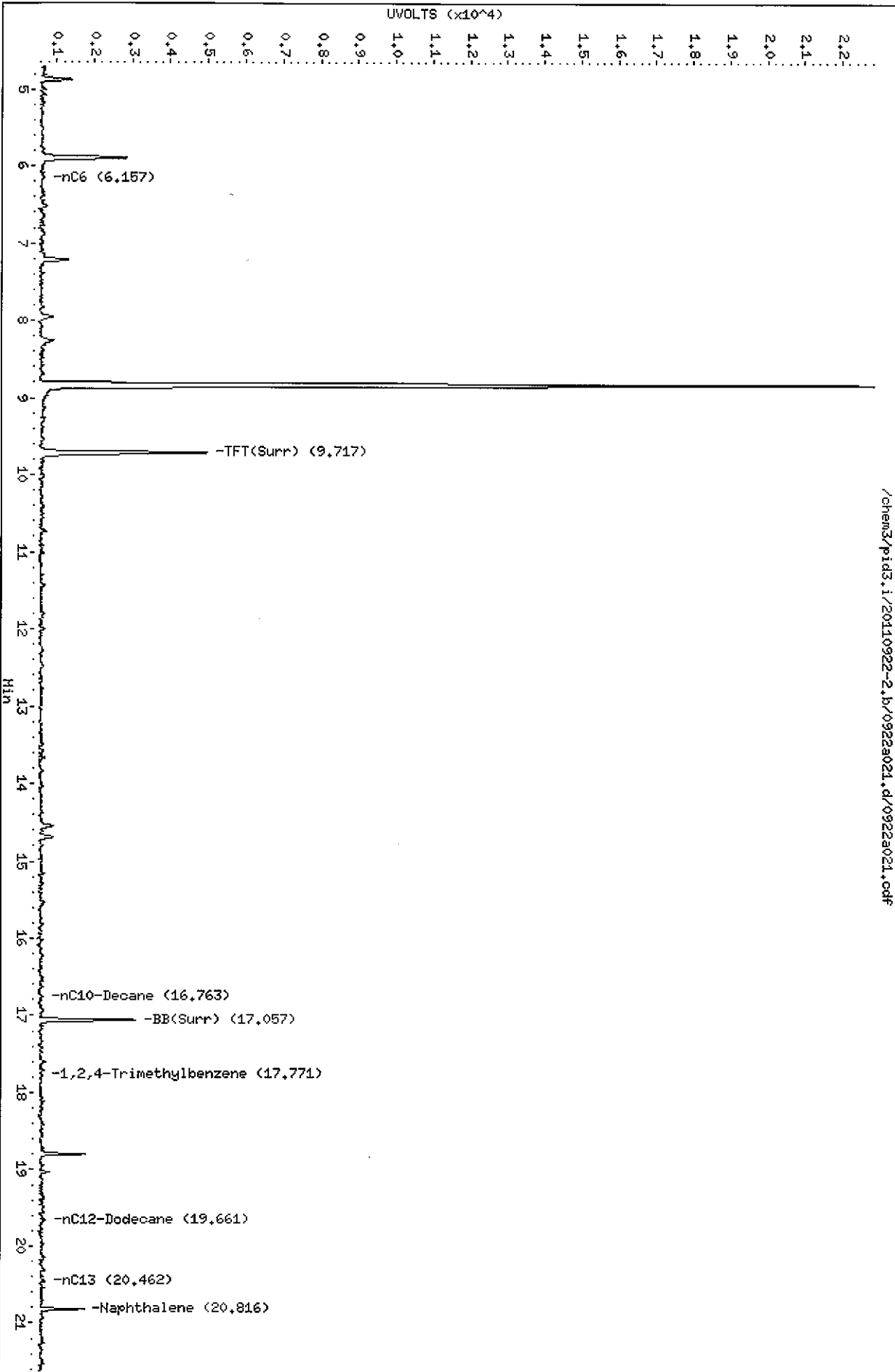
GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.
 Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Data File: /chem3/pid3.i/20110922-2.b/09222a021.d
Date: 22-SEP-2011 14:41
Client ID: KJ-B2-RGM
Sample Info: TM61A_10

Column phase: RTX 502-2 FID

/chem3/pid3.i/20110922-2.b/09222a021.d/09222a021.cdf

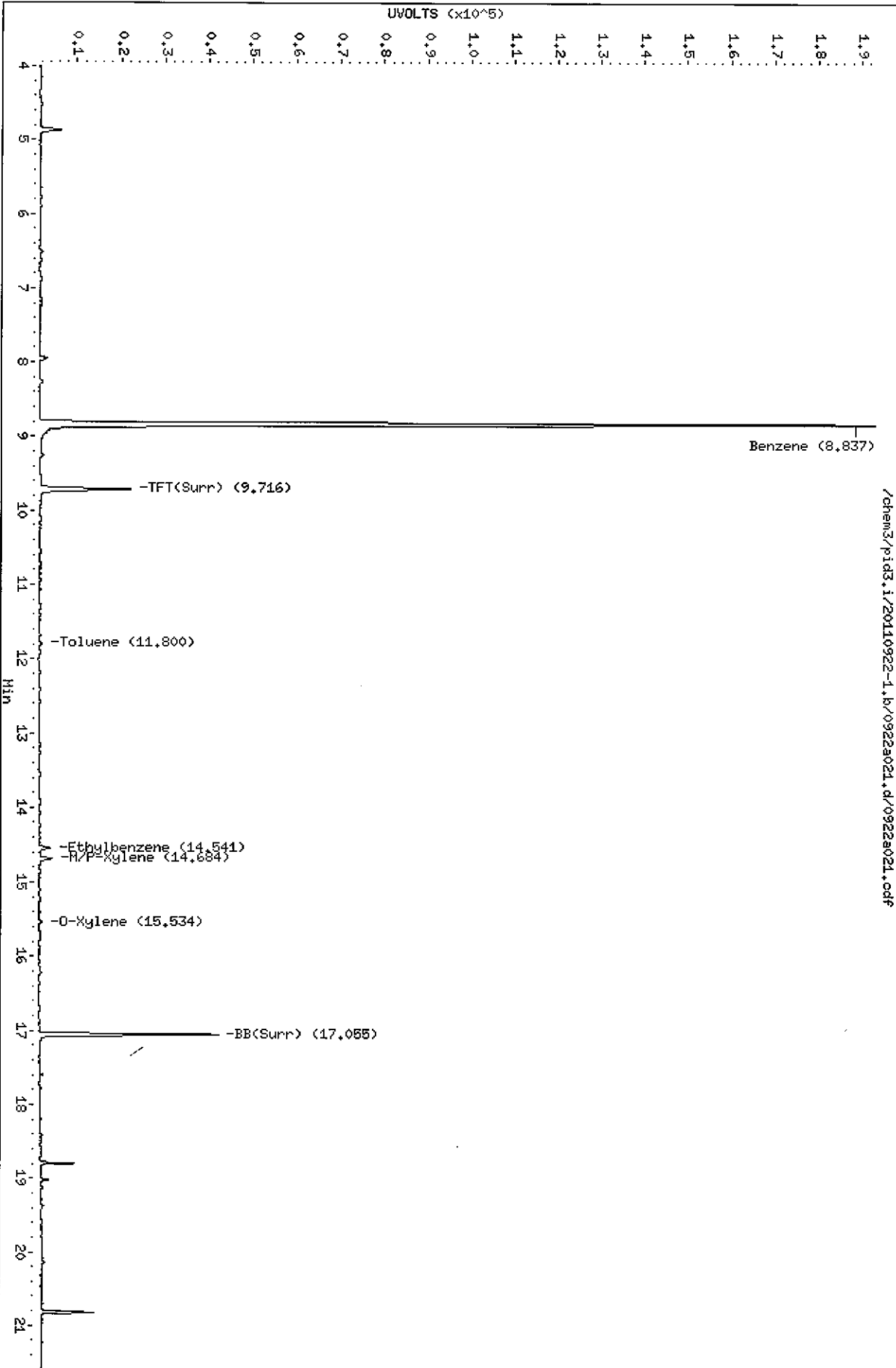
Instrument: pid3.i
Operator: MH
Column diameter: 0.18



Data File: /chem3/pid3.i/20110922-1.b/0922a021.d
Date : 22-SEP-2011 14:44
Client ID: KJ-B2-RGM
Sample Info: TH619_10

Column phase: RTX 502-2 P10

Instrument: pid3.i
Operator: MH
Column diameter: 0.18



/chem3/pid3.i/20110922-1.b/0922a021.d/0922a021.cdf



ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: KJ-B6-RGW

SAMPLE

Lab Sample ID: TM61B

LIMS ID: 11-20213

Matrix: Water

Data Release Authorized: *TMW*

Reported: 09/23/11

QC Report No: TM61-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Event: NA

Date Sampled: 09/12/11

Date Received: 09/16/11

Date Analyzed: 09/20/11 15:52

Instrument/Analyst: PID1/MH

Purge Volume: 5.0 mL

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
71-43-2	Benzene	1.0	1.4
108-88-3	Toluene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
179601-23-1	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Gasoline Range Hydrocarbons	0.25	< 0.25 U	GAS ID ---
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BETX Surrogate Recovery

Trifluorotoluene	93.3%
Bromobenzene	86.1%

Gasoline Surrogate Recovery

Trifluorotoluene	103%
Bromobenzene	95.8%

BETX values reported in µg/L (ppb)
Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
GRO: Positive result that does not match an identifiable gasoline pattern.
Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Data File: /chem3/pid1.i/vpcc0920-1.b/0920a010.d

Date: 20-SEP-2011 15:52

Client ID: KJ-B6-RGM

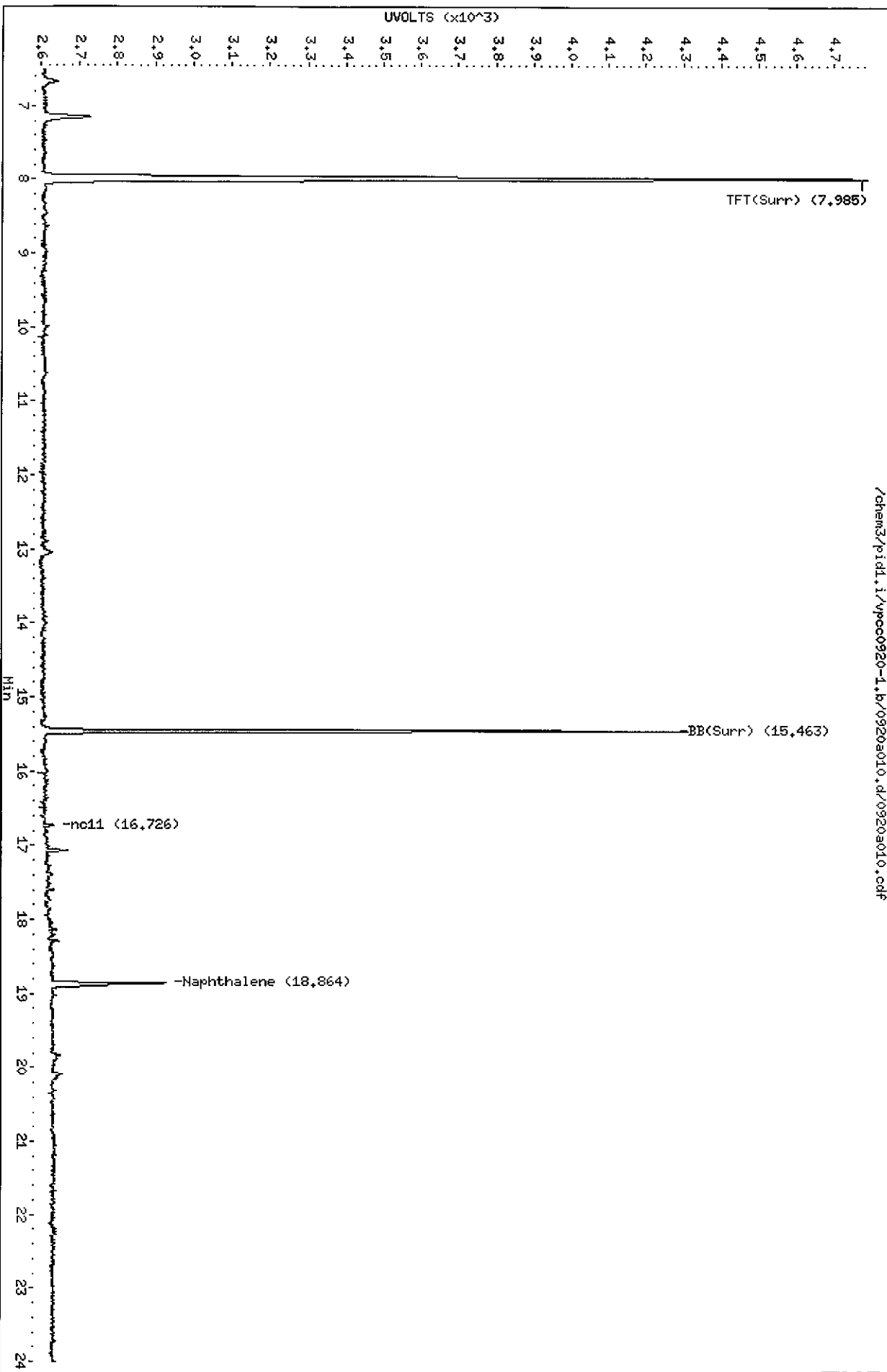
Sample Info: TMS1B

Column phase: RTX 502-2 FID

Instrument: pid1.i

Operator: HH

Column diameter: 0.18



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11:41

Data File: /chem3/pidd.i/vpcc0920-2.b/0920a010.d

Date: 20-SEP-2011 15:52

Client ID:

Sample Info: TM61B

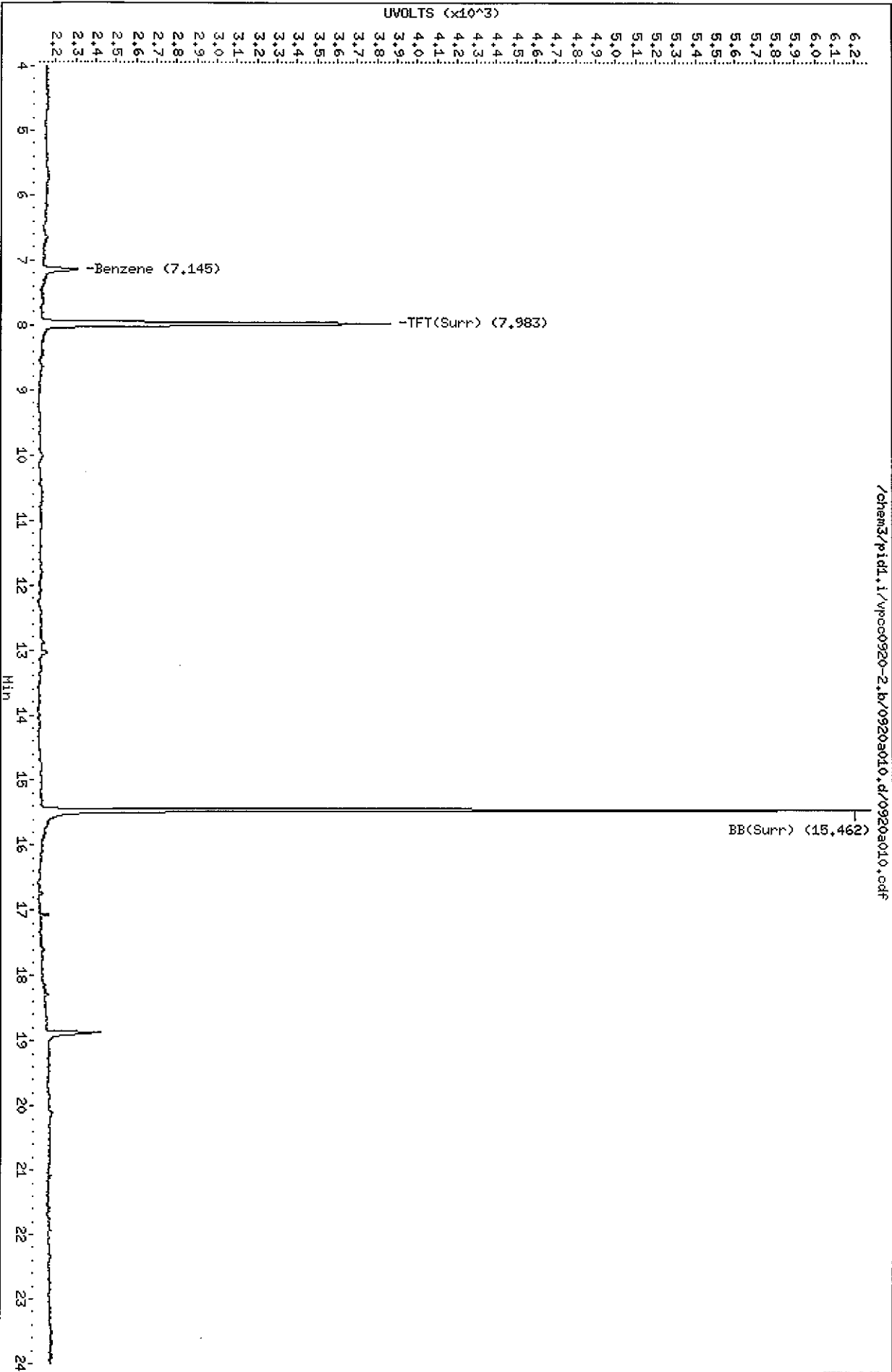
Column phase: RTX 502-2 PID

Instrument: pidd.i

Operator: MH

Column diameter: 0.18

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/chem3/pidd.i/vpcc0920-2.b/0920a010.d/0920a010.cdf

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ORGANICS ANALYSIS DATA SHEET
 BETX by Method SW8021BMod
 TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: KJ-B15-RGW
 SAMPLE

Lab Sample ID: TM61C
 LIMS ID: 11-20214
 Matrix: Water
 Data Release Authorized: *MW*
 Reported: 09/23/11

QC Report No: TM61-Kennedy Jenks Consultants
 Project: Ecology Cornet Bay
 Event: NA
 Date Sampled: 09/13/11
 Date Received: 09/16/11

Date Analyzed: 09/20/11 16:24
 Instrument/Analyst: PID1/MH
 Purge Volume: 5.0 mL
 Dilution Factor: 1.00

CAS Number	Analyte	RL	Result	GAS ID
71-43-2	Benzene	1.0	< 1.0 U	
108-88-3	Toluene	1.0	< 1.0 U	
100-41-4	Ethylbenzene	1.0	< 1.0 U	
179601-23-1	m,p-Xylene	1.0	< 1.0 U	
95-47-6	o-Xylene	1.0	< 1.0 U	
	Gasoline Range Hydrocarbons	0.25	< 0.25 U	---

BETX Surrogate Recovery

Trifluorotoluene	89.8%
Bromobenzene	82.6%

Gasoline Surrogate Recovery

Trifluorotoluene	99.1%
Bromobenzene	90.9%

BETX values reported in µg/L (ppb)
 Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.
 Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET
 BETX by Method SW8021BMod
 TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: KJ-B21-RGW
 SAMPLE

Lab Sample ID: TM61D
 LIMS ID: 11-20215
 Matrix: Water
 Data Release Authorized: *TMW*
 Reported: 09/23/11

QC Report No: TM61-Kennedy Jenks Consultants
 Project: Ecology Cornet Bay
 Event: NA
 Date Sampled: 09/13/11
 Date Received: 09/16/11

Date Analyzed: 09/20/11 16:56
 Instrument/Analyst: PID1/MH

Purge Volume: 5.0 mL
 Dilution Factor: 10.0

CAS Number	Analyte	RL	Result
71-43-2	Benzene	10	2,100 E
108-88-3	Toluene	10	170
100-41-4	Ethylbenzene	10	1,200
179601-23-1	m,p-Xylene	10	1,700
95-47-6	o-Xylene	10	52

Gasoline Range Hydrocarbons 2.5 22 GAS ID
GAS/GRO

BETX Surrogate Recovery

Trifluorotoluene	89.2%
Bromobenzene	89.9%

Gasoline Surrogate Recovery

Trifluorotoluene	100%
Bromobenzene	99.0%

BETX values reported in µg/L (ppb)
 Gasoline values reported in mg/L (ppm)

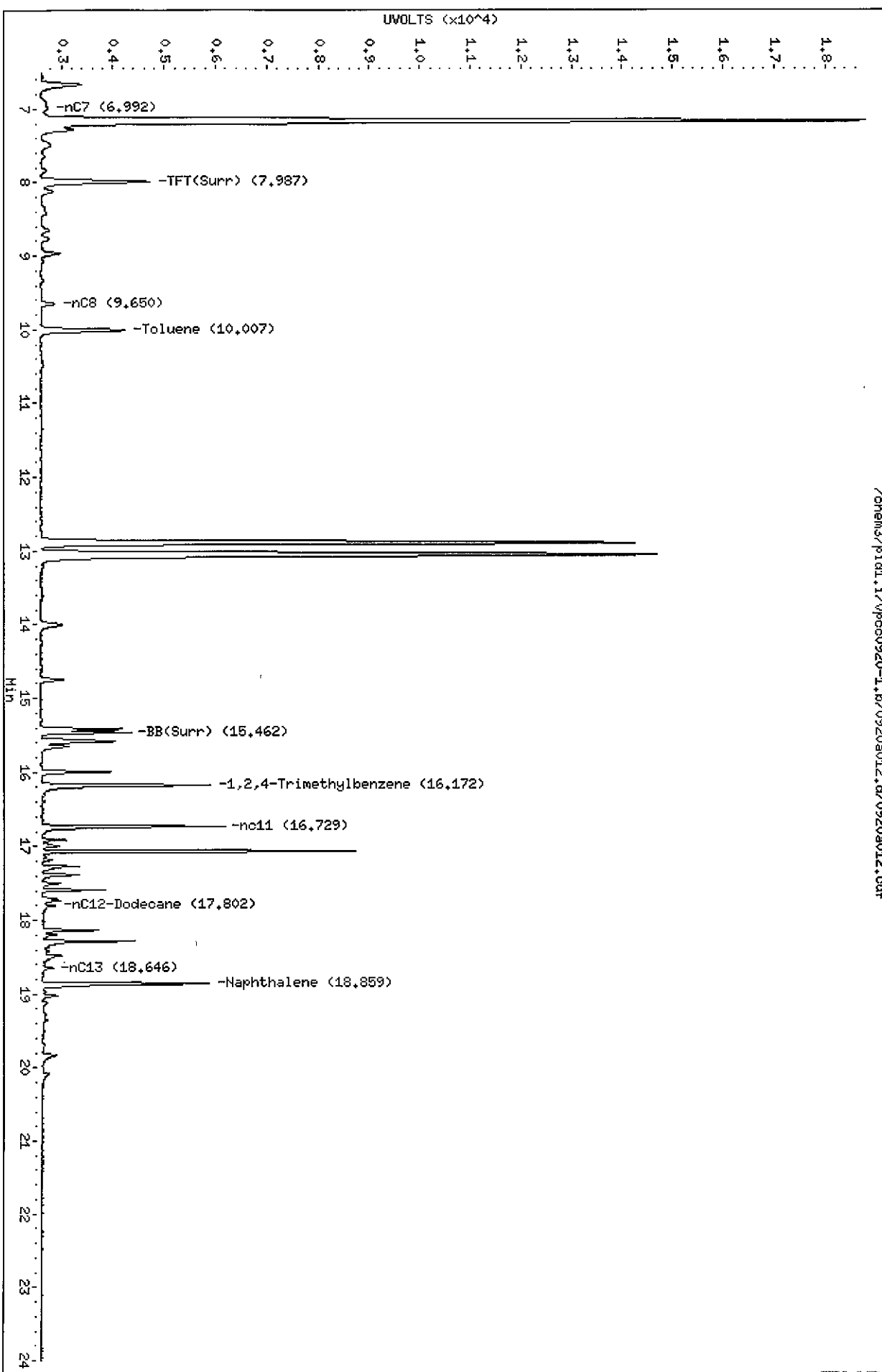
GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.
 Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Data File: /chem3/pid1.i/vpcc0920-1.b/0920a012.d
Date: 20-SEP-2011 16:56
Client ID: KJ-B2-RGM
Sample Info: TM61D,10

Column phase: RTX 502-2 FID

/chem3/pid1.i/vpcc0920-1.b/0920a012.d/0920a012.cdf

Instrument: pid1.i
Operator: HH
Column diameter: 0.18



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Data File: /chem3/pid1.i/vpcc0920-2.b/0920s012.d

Date: 20-SEP-2011 16:56

Client ID:

Sample Info: TMS1D_10

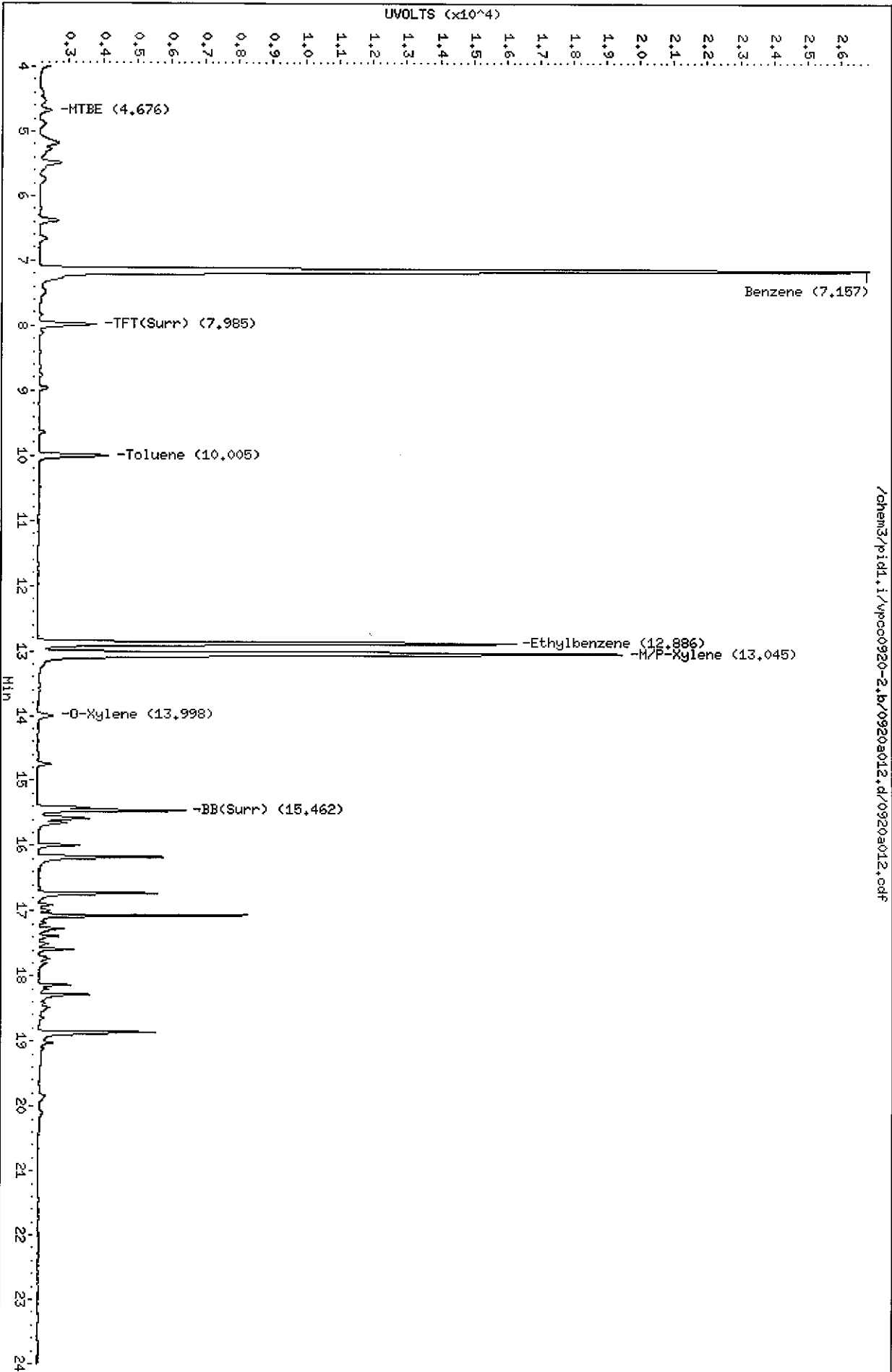
Column phase: RTX 502-2 PID

Instrument: pid1.i

Operator: MH

Column diameter: 0.18

/chem3/pid1.i/vpcc0920-2.b/0920s012.d/0920s012.cdf



ORGANICS ANALYSIS DATA SHEET
 BETX by Method SW8021BMod
 TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: KJ-B21-RGW
 DILUTION

Lab Sample ID: TM61D
 LIMS ID: 11-20215
 Matrix: Water
 Data Release Authorized: *MMW*
 Reported: 09/23/11

QC Report No: TM61-Kennedy Jenks Consultants
 Project: Ecology Cornet Bay
 Event: NA
 Date Sampled: 09/13/11
 Date Received: 09/16/11

Date Analyzed: 09/22/11 08:58
 Instrument/Analyst: PID3/MH
 Purge Volume: 5.0 mL
 Dilution Factor: 50.0

CAS Number	Analyte	RL	Result
71-43-2	Benzene	50	2,600
108-88-3	Toluene	50	160
100-41-4	Ethylbenzene	50	1,200
179601-23-1	m,p-Xylene	50	1,600
95-47-6	o-Xylene	50	62

Gasoline Range Hydrocarbons 12 22 GAS ID GAS/GRO

BETX Surrogate Recovery

Trifluorotoluene	97.7%
Bromobenzene	97.4%

Gasoline Surrogate Recovery

Trifluorotoluene	100%
Bromobenzene	101%

BETX values reported in µg/L (ppb)
 Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.
 Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Data File: /chem3/pid3.i/20110922-2.b/0922a008.d

Date: 22-SEP-2011 08:58

Client ID: KJ-B21-RGM

Sample Info: TH61D_50

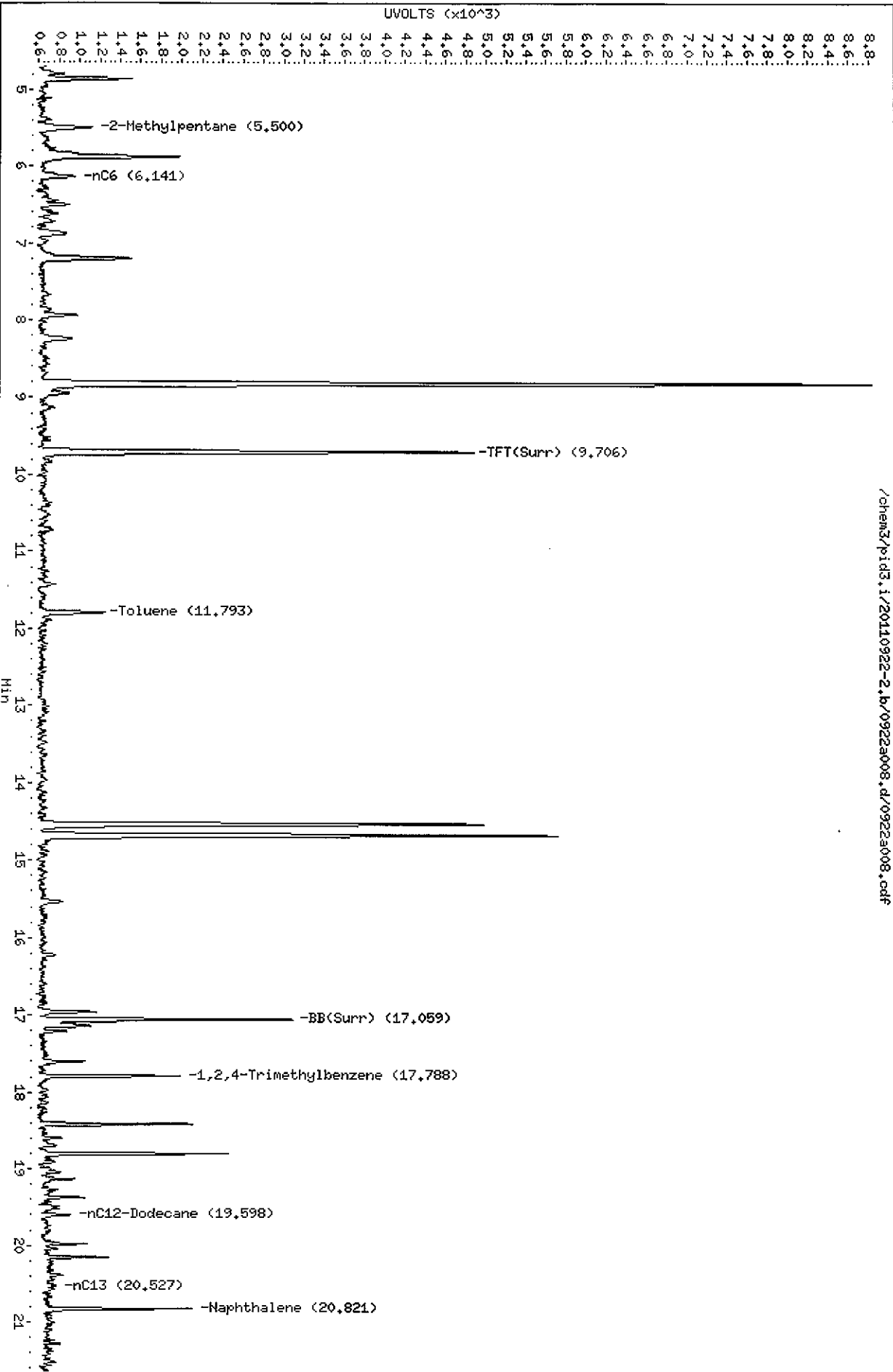
Column phase: RTX 502-2 FID

Instrument: pid3.i

Operator: NH

Column diameter: 0.18

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/chem3/pid3.i/20110922-2.b/0922a008.d/0922a008.cdf

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Data File: /chem3/pid3.i/20110922-1.b/0922a008.d

Date: 22-SEP-2011 08:58

Client ID: KJ-B21-RGM

Sample Info: TH6LD,50

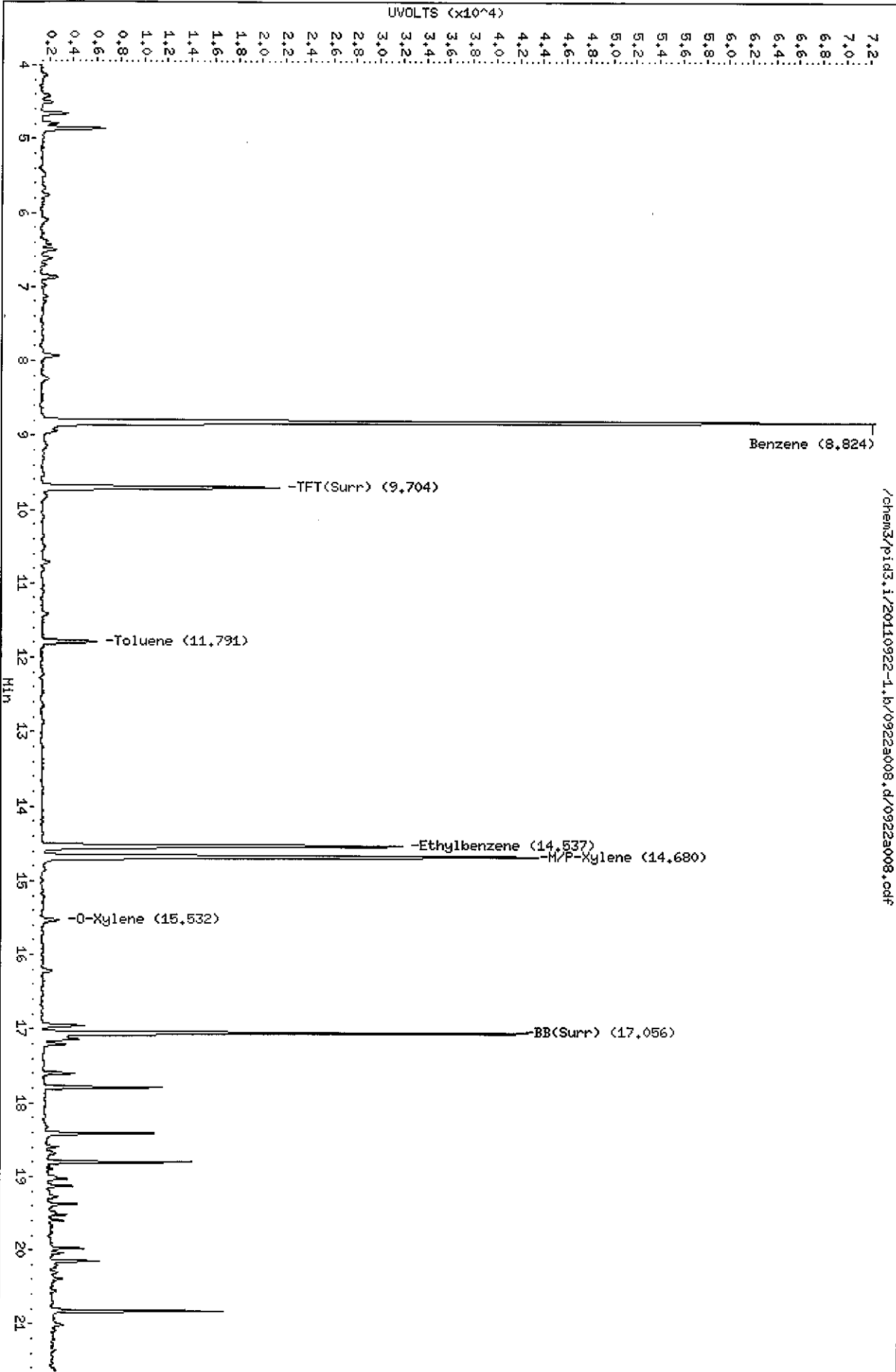
Column phase: RTX 502-2 PID

Instrument: pid3.i

Operator: MH

Column diameter: 0.18

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ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021EMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: Trip Blanks
SAMPLE

Lab Sample ID: TM61E

LIMS ID: 11-20216

Matrix: Water

Data Release Authorized: *MMW*

Reported: 09/23/11

QC Report No: TM61-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Event: NA

Date Sampled: 09/12/11

Date Received: 09/16/11

Date Analyzed: 09/20/11 14:15

Instrument/Analyst: PID1/MH

Purge Volume: 5.0 mL

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
71-43-2	Benzene	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
179601-23-1	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Gasoline Range Hydrocarbons	0.25	< 0.25 U	GAS ID ---
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BETX Surrogate Recovery

Trifluorotoluene	94.4%
Bromobenzene	87.7%

Gasoline Surrogate Recovery

Trifluorotoluene	104%
Bromobenzene	96.0%

BETX values reported in µg/L (ppb)
Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

BETX WATER SURROGATE RECOVERY SUMMARY

ARI Job: TM61
Matrix: Water

QC Report No: TM61-Kennedy Jenks Consultants
Project: Ecology Cornet Bay
Event: NA

<u>Client ID</u>	<u>TFT</u>	<u>BBZ</u>	<u>TOT OUT</u>
MB-092011	90.2%	86.7%	0
LCS-092011	91.0%	88.5%	0
LCSD-092011	94.6%	88.3%	0
KJ-B2-RGW	91.9%	85.8%	0
KJ-B2-RGW DL	100%	96.5%	0
MB-092211	90.1%	87.6%	0
LCS-092211	95.8%	93.4%	0
LCSD-092211	96.6%	95.0%	0
KJ-B6-RGW	93.3%	86.1%	0
KJ-B15-RGW	89.8%	82.6%	0
KJ-B21-RGW	89.2%	89.9%	0
KJ-B21-RGW DL	97.7%	97.4%	0
Trip Blanks	94.4%	87.7%	0

	LCS/MB LIMITS	QC LIMITS
(TFT) = Trifluorotoluene	(79-120)	(80-120)
(BBZ) = Bromobenzene	(79-120)	(80-120)

Log Number Range: 11-20212 to 11-20216

TPHG WATER SURROGATE RECOVERY SUMMARY

ARI Job: TM61
Matrix: Water

QC Report No: TM61-Kennedy Jenks Consultants
Project: Ecology Cornet Bay
Event: NA

<u>Client ID</u>	<u>TFT</u>	<u>BBZ</u>	<u>TOT</u>	<u>OUT</u>
MB-092011	99.8%	94.8%	0	
LCS-092011	103%	96.7%	0	
LCSD-092011	107%	96.3%	0	
KJ-B2-RGW	101%	94.1%	0	
KJ-B2-RGW DL	103%	103%	0	
MB-092211	94.6%	93.7%	0	
LCS-092211	97.5%	96.2%	0	
LCSD-092211	98.2%	101%	0	
KJ-B6-RGW	103%	95.8%	0	
KJ-B15-RGW	99.1%	90.9%	0	
KJ-B21-RGW	100%	99.0%	0	
KJ-B21-RGW DL	100%	101%	0	
Trip Blanks	104%	96.0%	0	

	LCS/MB LIMITS	QC LIMITS
(TFT) = Trifluorotoluene	(80-120)	(80-120)
(BBZ) = Bromobenzene	(80-120)	(80-120)

Log Number Range: 11-20212 to 11-20216

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod
Page 1 of 1

Sample ID: LCS-092011
LAB CONTROL SAMPLE

Lab Sample ID: LCS-092011
LIMS ID: 11-20212
Matrix: Water
Data Release Authorized: *mmw*
Reported: 09/23/11

QC Report No: TM61-Kennedy Jenks Consultants
Project: Ecology Cornet Bay
Event: NA
Date Sampled: NA
Date Received: NA

Date Analyzed LCS: 09/20/11 12:38
LCSD: 09/20/11 13:11
Instrument/Analyst LCS: PID1/MH
LCSD: PID1/MH

Purge Volume: 5.0 mL
Dilution Factor LCS: 1.0
LCSD: 1.0

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Benzene	2.95	3.70	79.7%	3.15	3.70	85.1%	6.6%
Toluene	33.5	36.5	91.8%	34.1	36.5	93.4%	1.8%
Ethylbenzene	9.18	10.7	85.8%	9.23	10.7	86.3%	0.5%
m,p-Xylene	35.1	40.1	87.5%	36.4	40.1	90.8%	3.6%
o-Xylene	15.8	18.1	87.3%	16.1	18.1	89.0%	1.9%

Reported in µg/L (ppb)

RPD calculated using sample concentrations per SW846.

BETX Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	91.0%	94.6%
Bromobenzene	88.5%	88.3%



ORGANICS ANALYSIS DATA SHEET

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: LCS-092011

LAB CONTROL SAMPLE

Lab Sample ID: LCS-092011

LIMS ID: 11-20212

Matrix: Water

Data Release Authorized: *mm*

Reported: 09/23/11

QC Report No: TM61-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Event: NA

Date Sampled: NA

Date Received: NA

Date Analyzed LCS: 09/20/11 12:38

Purge Volume: 5.0 mL

LCSD: 09/20/11 13:11

Instrument/Analyst LCS: PID1/MH

Dilution Factor LCS: 1.0

LCSD: PID1/MH

LCSD: 1.0

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Gasoline Range Hydrocarbons	1.02	1.00	102%	0.98	1.00	98.0%	4.0%

Reported in mg/L (ppm)

RPD calculated using sample concentrations per SW846.

TPHG Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	103%	107%
Bromobenzene	96.7%	96.3%

Data File: /chem3/pid1.i/vpcc0920-1.b/0920a004.d

Date : 20-SEP-2011 12:38

Client ID:

Sample Info: LCS0920

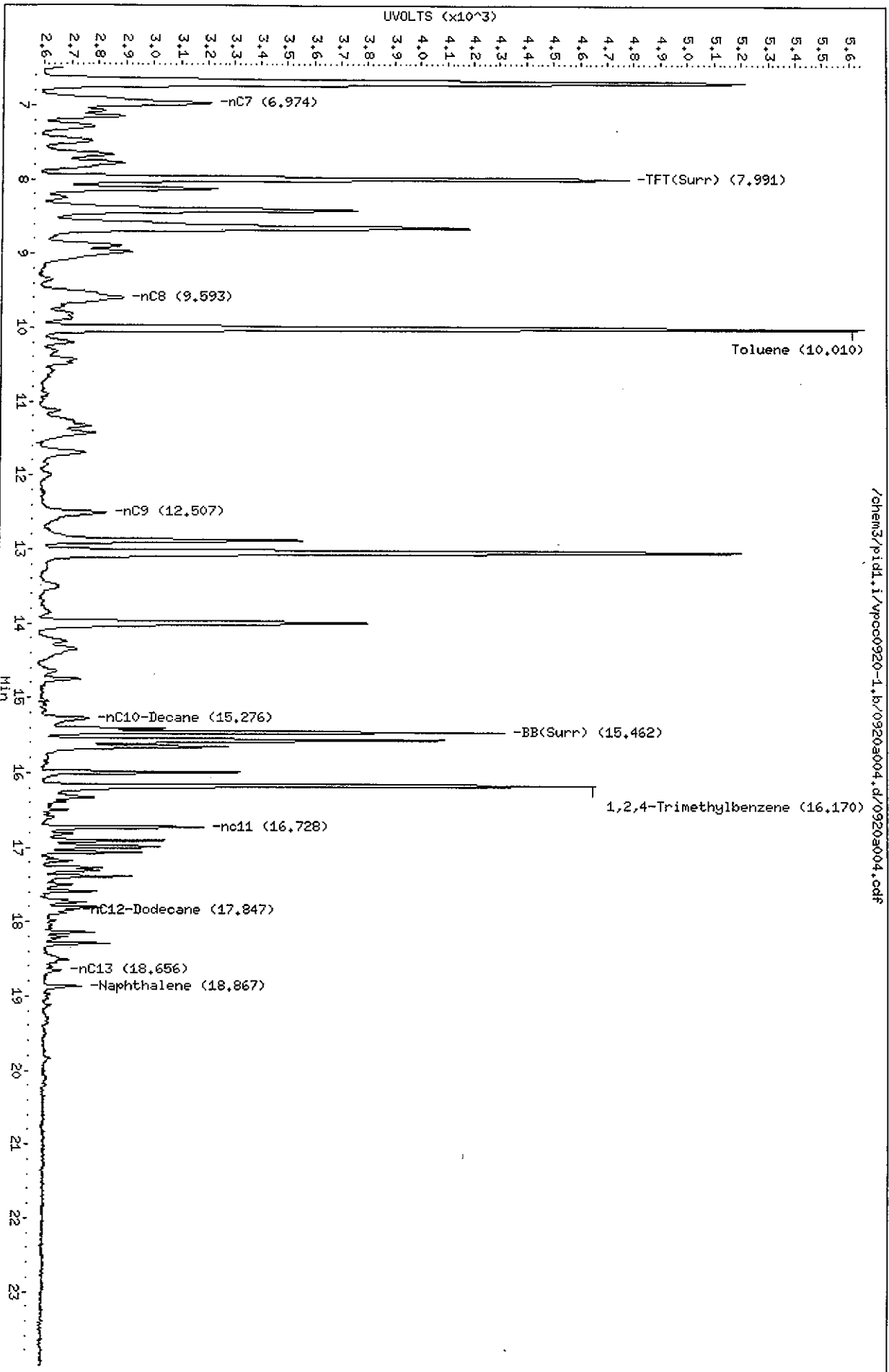
Column phase: RTX 502-2 FID

Instrument: pid1.i

Operator: HH

Column diameter: 0.18

/chem3/pid1.i/vpcc0920-1.b/0920a004.d/0920a004.cdf



1100041

Data File: /chem3/pidd.i/vpcc0920-2.b/0920a004.d

Date: 20-SEP-2011 12:38

Client ID:

Sample Info: LCS0920

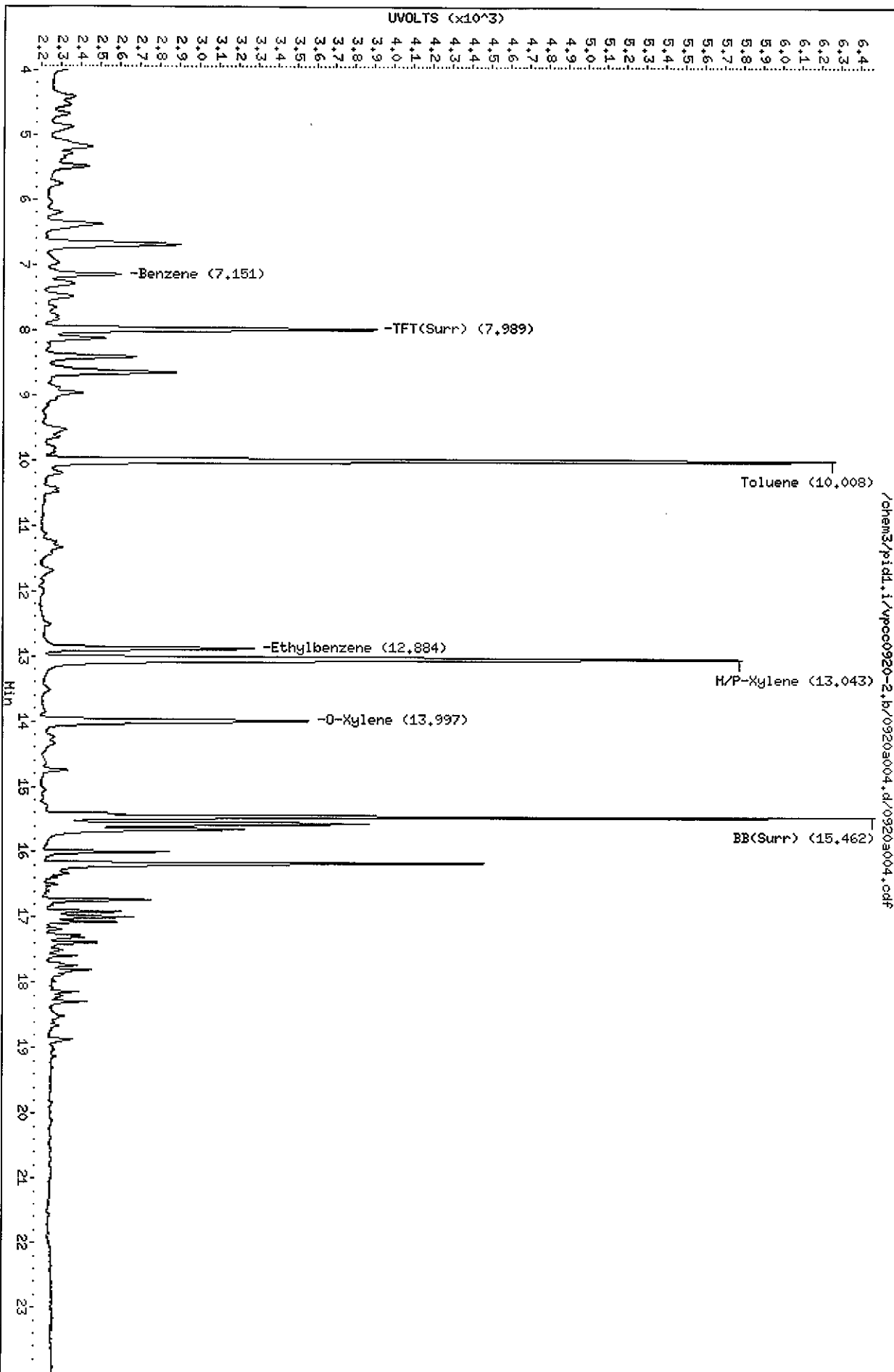
Column phase: RTX 502-2 PID

Instrument: pidd.i

Operator: MH

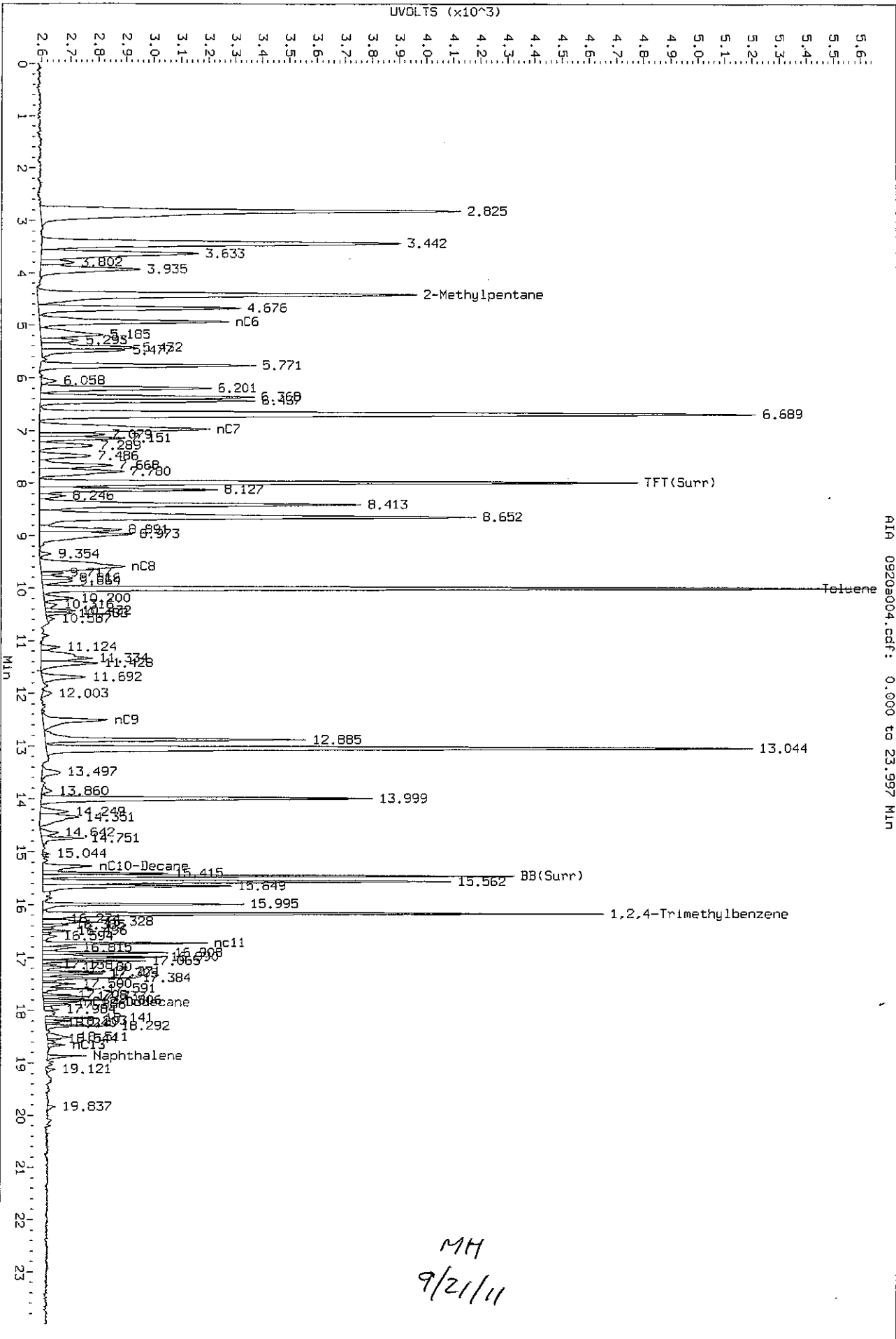
Column diameter: 0.18

Page 1



110100045

Data File: /chems3/pid1.1/vpcc0920-1.b/0920a004.d/0920a004.cdf
Injection Date: 20-SEP-2011 12:38
Instrument: pid1.1
Client Sample ID:



AIA 0920a004.cdf: 0.000 to 23.997 MIN

MH
9/21/11

Data File: /chem3/pid1.i/vp000920-1.b/0920a005.d

Date: 20-SEP-2011 13:11

Client ID:

Sample Info: LCSD0920

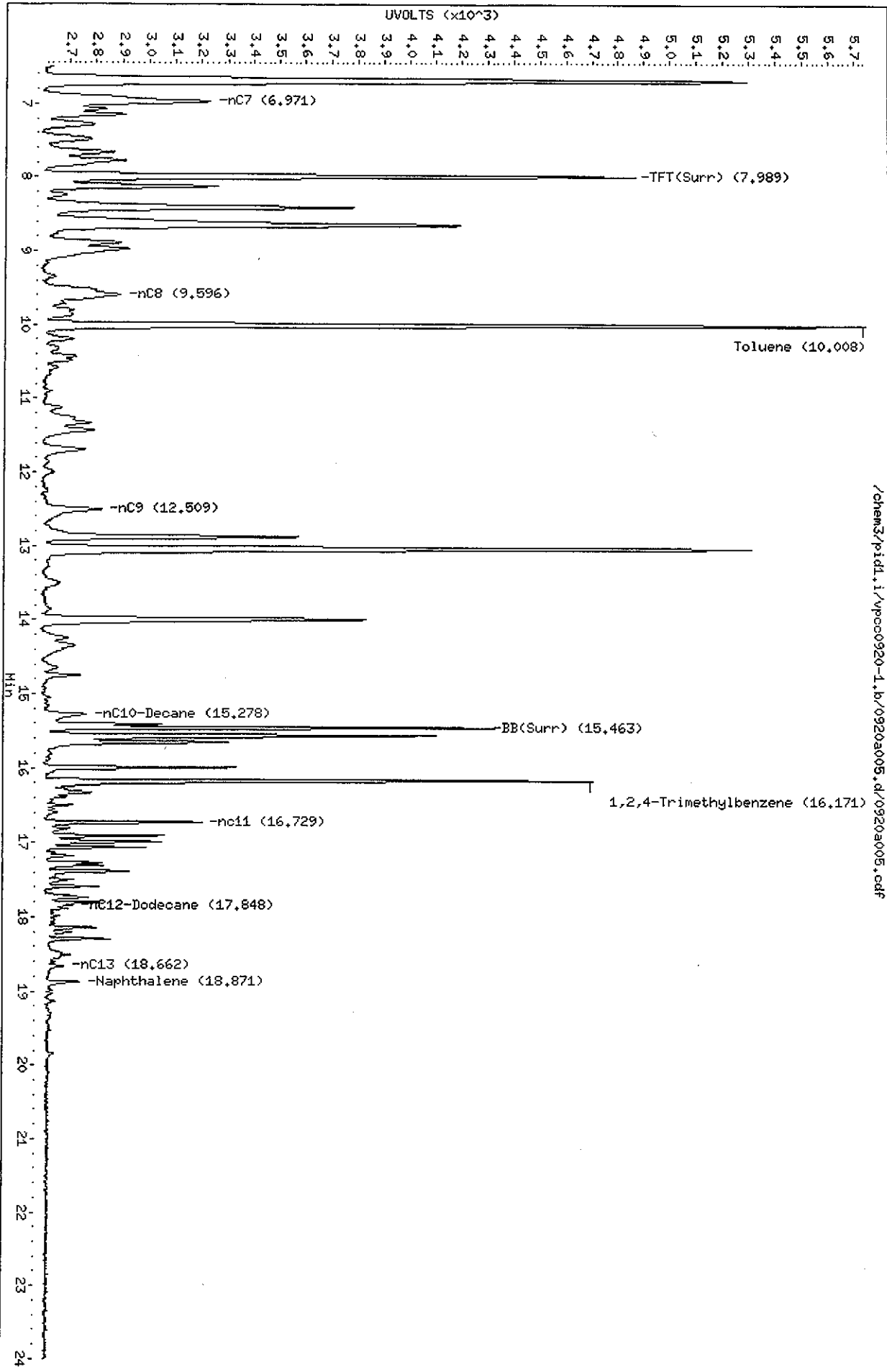
Column phase: RTX 502-2 FID

Instrument: pid1.i

Operator: NH

Column diameter: 0.18

/chem3/pid1.i/vp000920-1.b/0920a005.d/0920a005.pdf



100040

Data File: /chem3/pid1.i/vpcc0920-2.l/0920s005.d

Date: 20-SEP-2011 13:11

Client ID:

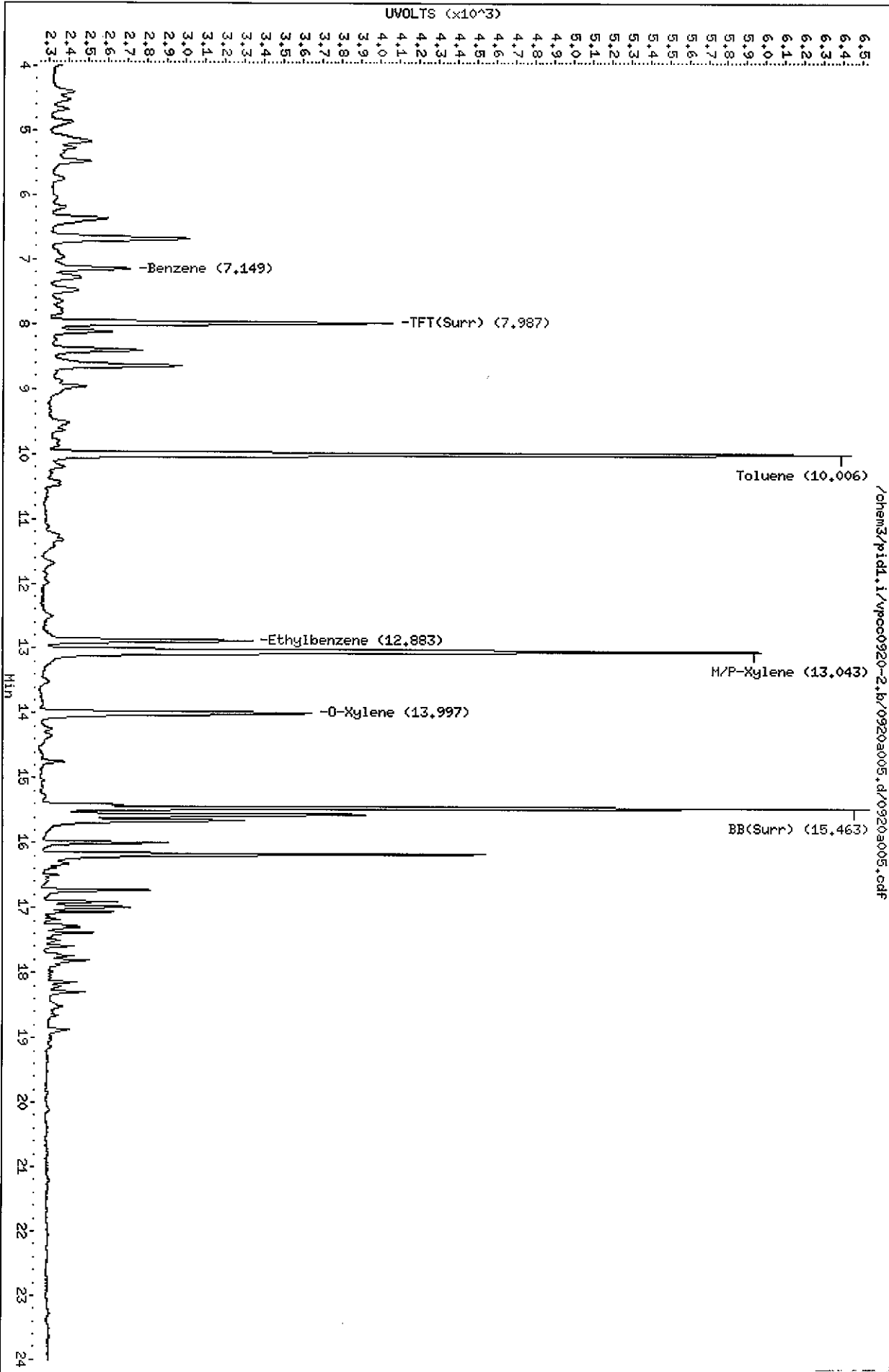
Sample Info: LCSD0920

Column phase: RTX 502-2 PID

Instrument: pid1.i

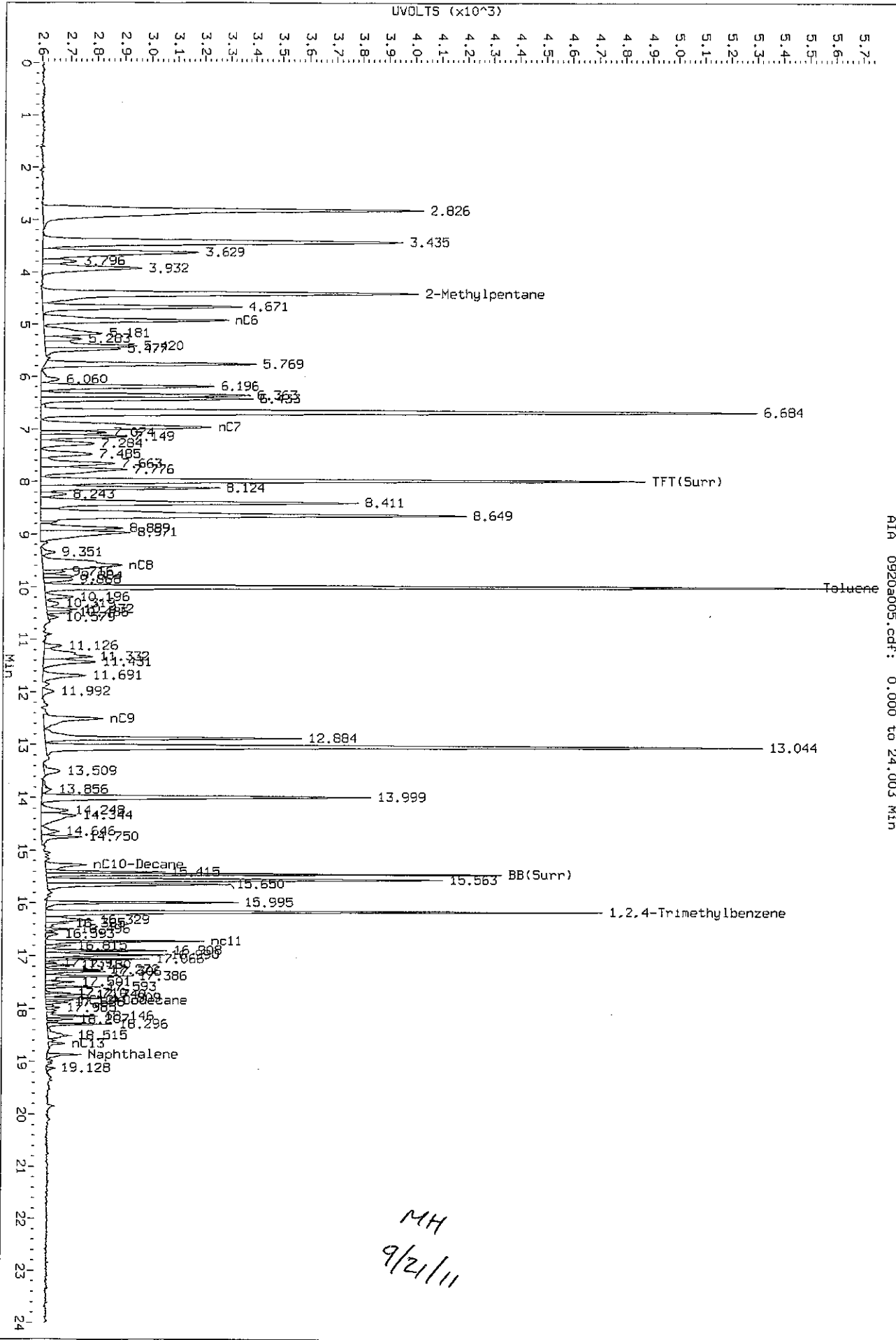
Operator: HH

Column diameter: 0.18



RT 15.463 : 15.463

Data File: /chem3/pid1_1/vpcc0920-1.b/0920a005.d/0920a005.cdf
Injection Date: 20-SEP-2011 13:11
Instrument: pid1.1
Client Sample ID:



AIA 0920a005.cdf: 0.000 to 24.003 Min

MH
9/21/11

ORGANICS ANALYSIS DATA SHEET
TPHG by Method NWTPHG
Page 1 of 1



Sample ID: LCS-092211
LAB CONTROL SAMPLE

Lab Sample ID: LCS-092211
LIMS ID: 11-20213
Matrix: Water
Data Release Authorized: *MM*
Reported: 09/23/11

QC Report No: TM61-Kennedy Jenks Consultants
Project: Ecology Cornet Bay
Event: NA
Date Sampled: NA
Date Received: NA

Date Analyzed LCS: 09/22/11 06:48
LCSD: 09/22/11 07:15
Instrument/Analyst LCS: PID3/MH
LCSD: PID3/MH

Purge Volume: 5.0 mL
Dilution Factor LCS: 1.0
LCSD: 1.0

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Gasoline Range Hydrocarbons	0.97	1.00	97.0%	0.90	1.00	90.0%	7.5%

Reported in mg/L (ppm)

RPD calculated using sample concentrations per SW846.

TPHG Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	97.5%	98.2%
Bromobenzene	96.2%	101%

ORGANICS ANALYSIS DATA SHEET
 BETX by Method SW8021BMod
 Page 1 of 1

Sample ID: LCS-092211
 LAB CONTROL SAMPLE

Lab Sample ID: LCS-092211
 LIMS ID: 11-20213
 Matrix: Water
 Data Release Authorized: *mw*
 Reported: 09/23/11

QC Report No: TM61-Kennedy Jenks Consultants
 Project: Ecology Cornet Bay
 Event: NA
 Date Sampled: NA
 Date Received: NA

Date Analyzed LCS: 09/22/11 06:48
 LCSD: 09/22/11 07:15
 Instrument/Analyst LCS: PID3/MH
 LCSD: PID3/MH

Purge Volume: 5.0 mL
 Dilution Factor LCS: 1.0
 LCSD: 1.0

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Benzene	3.40	3.70	91.9%	3.47	3.70	93.8%	2.0%
Toluene	34.4	36.5	94.2%	34.5	36.5	94.5%	0.3%
Ethylbenzene	9.94	10.7	92.9%	10.1	10.7	94.4%	1.6%
m,p-Xylene	37.4	40.1	93.3%	38.1	40.1	95.0%	1.9%
o-Xylene	17.1	18.1	94.5%	17.6	18.1	97.2%	2.9%

Reported in µg/L (ppb)

RPD calculated using sample concentrations per SW846.

BETX Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	95.8%	96.6%
Bromobenzene	93.4%	95.0%

Data File: /chem3/pid3.i/20110922-2.b/0922a004.d

Date: 22-SEP-2011 06:48

Client ID:

Sample Infor: LCS0921

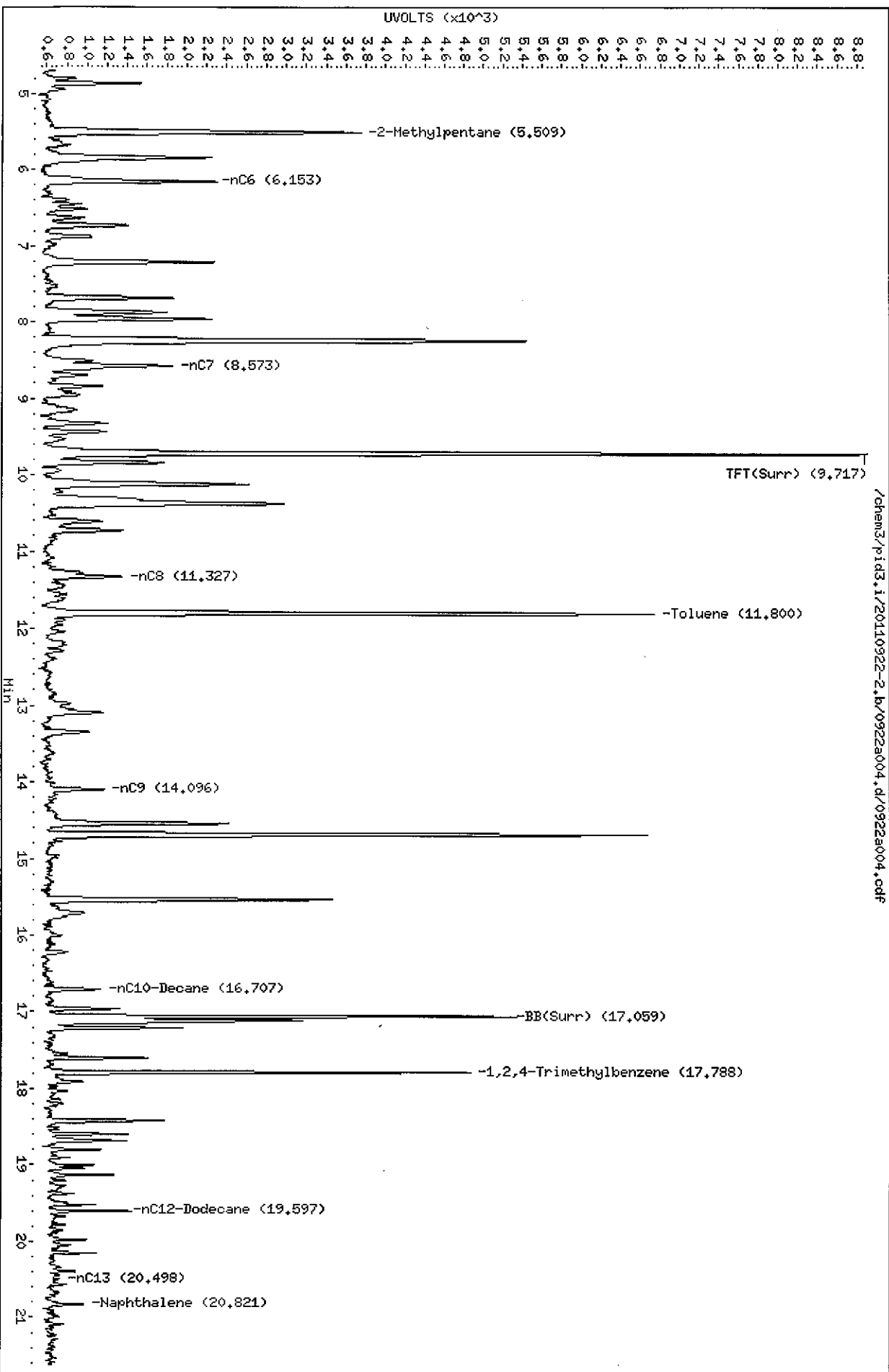
Column phase: RTX 502-2 FID

Instrument: pid3.i

Operator: HH

Column diameter: 0.18

Page 1



150000

Data File: /chem3/pid3.i/20110922-1.b/0922a004.d

Date: 22-SEP-2011 06:48

Client ID:

Sample Info: LCS0921

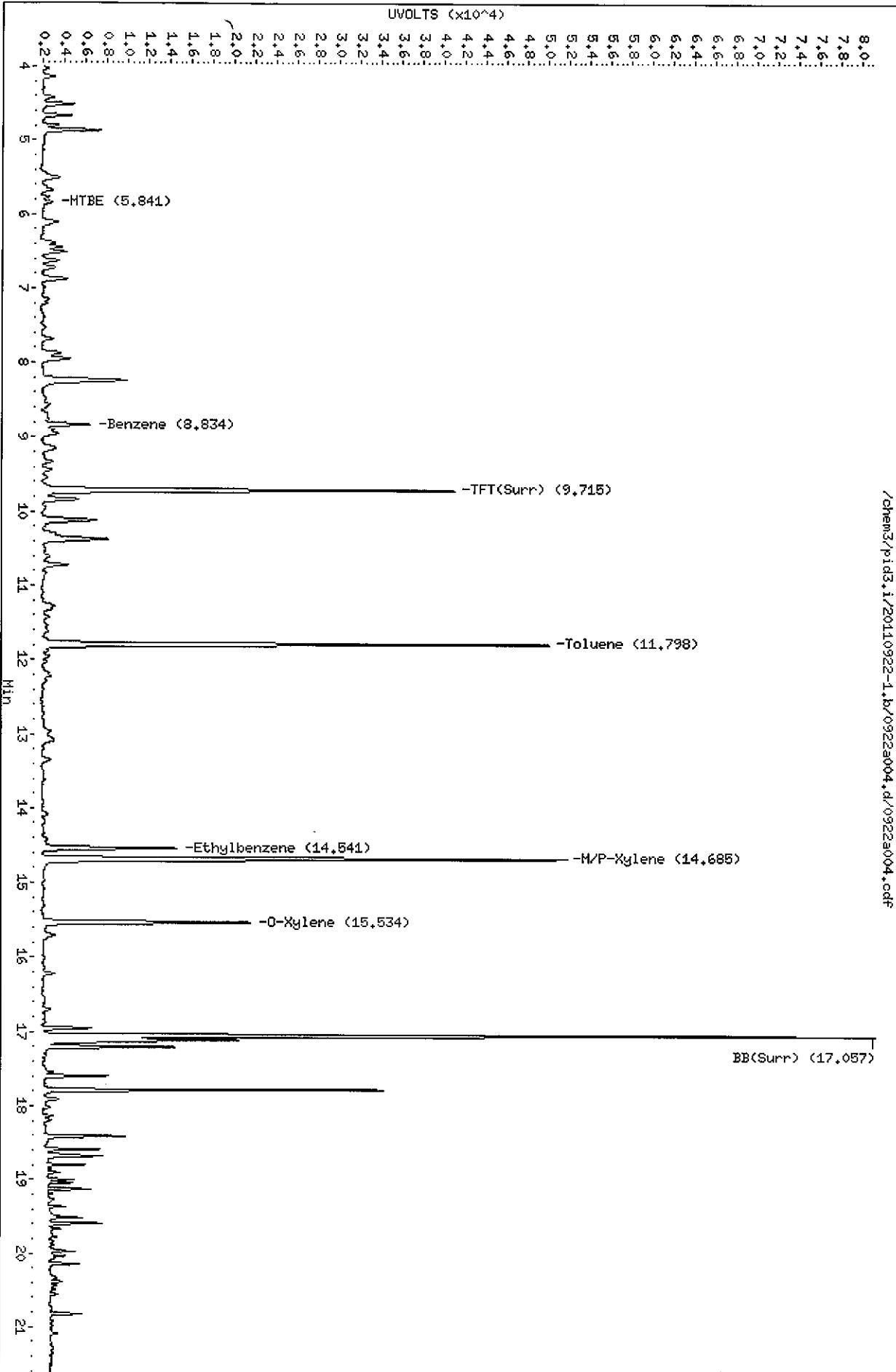
Column phase: RTX 502-2 PID

Instrument: pid3.i

Operator: HH

Column diameter: 0.18

Page 1



/chem3/pid3.i/20110922-1.b/0922a004.d/0922a004.cdf

Data File: /chem3/pid3.i/20110922-2.b/0922a005.d

Date: 22-SEP-2011 07:15

Client ID:

Sample Info: LCSD0922

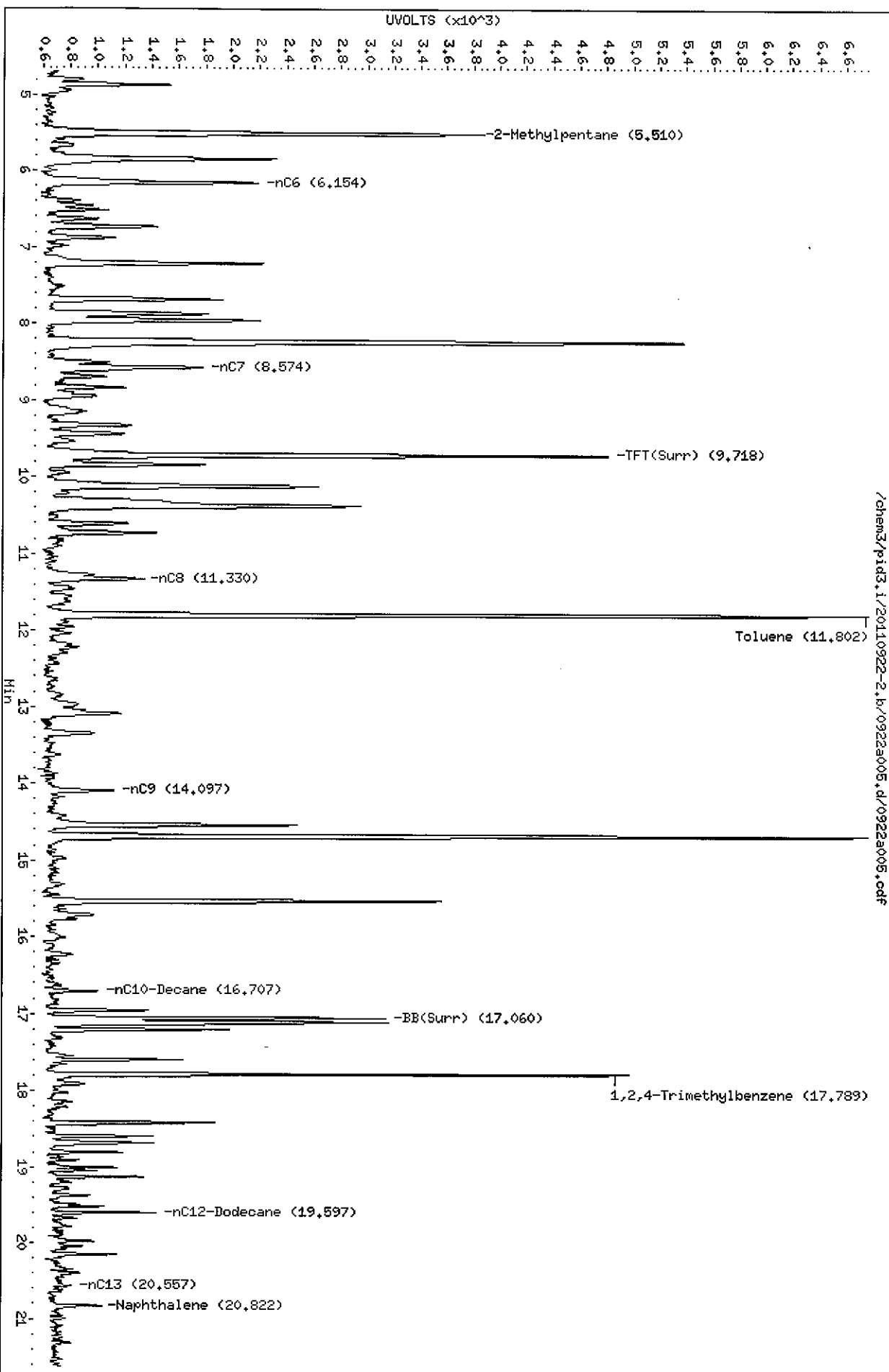
Column phase: RTX 502-2 FID

Instrument: pid3.i

Operator: HH

Column diameter: 0.18

/chem3/pid3.i/20110922-2.b/0922a005.d/0922a005.cdf



Data File: /chem3/pid3.i/20110922-1.b/0922a005.d

Date: 22-SEP-2011 07:15

Client ID:

Sample Inpt: LCSD0922

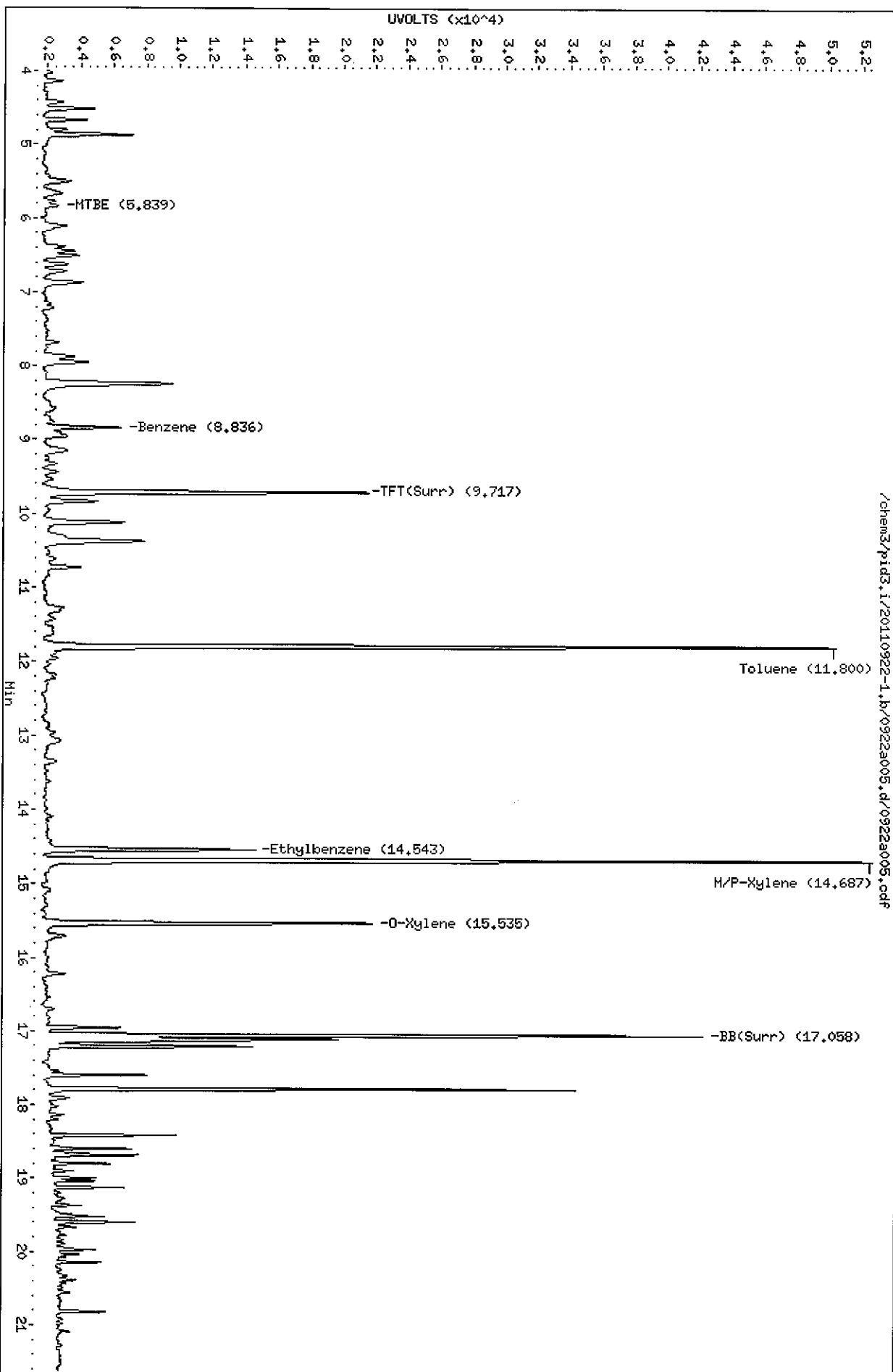
Column phase: RTX 502-2 PID

Instrument: pid3.i

Operator: HH

Column diameter: 0.18

Page 1





Analytical Resources, Incorporated

Analytical Chemists and Consultants

5 October 2011

Dean Malte
Kennedy Jenks Consultants
32001 32nd Ave S., Suite 100
Federal Way, WA 98001

RE: Client Project: Ecology Cornet Bay
ARI Job No: TM62

Dear Dean:

Please find enclosed the original Chain-of-Custody (COC) records and the final results for the samples from the project referenced above. Twenty soil samples were received on September 16, 2011. The samples were analyzed for metals, PAHs, VOAs, BETX/NWTPH-G and Acid/Silica Cleaned NWTPH-Dx as requested.

The percent recovery for the surrogate, bromobenzene, was high following the initial BETX/NWTPH-G analysis of sample KJ-B11-5. This sample was diluted and re-analyzed. The percent recoveries for both surrogates were within established QC limits for the dilution. The results for both analyses have been submitted.

There were no further analytical problems noted.

An electronic copy of this report and all supporting raw data will be kept on file at ARI. Should you have any questions regarding these results, please feel free to call me at any time.

Sincerely,

ANALYTICAL RESOURCES, INC.

Mark D. Harris
Project Manager
206/695-6210
markh@arilabs.com

Enclosures

cc: file TM62

MDH/bc

Chain of Custody Record & Laboratory Analysis Request

Soil

ARI Assigned Number: TM02 of 4
 Date: 9/14/11 Ice Present? Y
 No. of Coolers: 4 Cooler Temps: 3.4, 4.4, 1.5, 4.8

Turn-around Requested: STD
 Phone: 253 835 6400
 Client Company: Kennedy/Senks
 Client Contact: Dean Maltz
 Client Project Name: Ecology Cornet Bay
 Client Project #: DKM



Analytical Resources, Incorporated
 Analytical Chemists and Consultants
 4611 South 134th Place, Suite 100
 Tukwila, WA 98168
 206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	Analysis Requested						Notes/Comments	
					MMPH-DX (M/S/L/C/S/M)	MMPH-CX/STEX	Total Metals	PAHS	MTEB, EOB, EDC			
K5-B1-4	9/16/11	9:45	Soil	3	X	X	X					
K5-B2-12		9:50		3	X	X	X					
K5-B3-9		1:05		3	X	X	X					
K5-B4-6		1:50		3	X	X	X					
K5-B5-4		1:30		3	X	X	X					
K5-B6-7		1:30		3	X	X	X					
K5-B7-8		1:40		3	X	X	X					
K5-B8-13		1:40		3	X	X	X					
K5-B8-14		1:50		3	X	X	X					
K5-B9-13		1:50		3	X	X	X					

Relinquished by: Dean Maltz (Signature) Received by: [Signature] (Signature)
 Printed Name: Dean Maltz Company: ARI Printed Name: Jennifer M. Top Company: ARI
 Date & Time: 9/14/11 1700 Date & Time: 9/16/11 1145

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: T1602 Turn-around Requested: Std

ARI Client Company: Kennedy/Teak Phone: 253 855 6400

Client Contact: Dean Moltz

Client Project Name: Ecology Carnet Sax

Client Project #: DKM

Samplers: DKM

Page: 2 of 4

Date: 9/14/11 Ice Present? Y

No. of Coolers: 4 Cooler Temps: 34.4, 4.1, 34.8



Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	Analysis Requested					Notes/Comments
					MTRH-DX (5.15.06)	MTRH-GX + BTEX	10721 (Methyl)	DAMS	MTRH-EDC	
K5-B10-8	9/12/11	1655	Soil	8	X	X	X	X	X	
K5-B11-5	9/15/11	830		3	X	X				
K5-B12-6		900		3	X	X				
K5-B13-4		950		3	X	X				
K5-B14-3		1030		3	X	X				
K5-B15-4		1100		3	X	X				
K5-B16-4		1210		3	X	X				
K5-B17-4		1320		3	X	X				
K5-B18-4		1400		3	X	X				
K5-B19-5		1440		3	X	X				
Comments/Special Instructions	Relinquished by: (Signature) <u>[Signature]</u> Date & Time: <u>9/16/11</u>				Received by: (Signature) <u>[Signature]</u> Date & Time: <u>9/16/11</u>					
	Printed Name: <u>Dean Moltz</u>				Printed Name: <u>Jennifer Miltkop</u>					
	Company: <u>ARI</u>				Company: <u>ARI</u>					
	Date & Time: <u>9/14/11 1700</u>				Date & Time: <u>9/16/11 1145</u>					

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.



Cooler Receipt Form

ARI Client: Kennedy Jenks
 COC No(s): _____ (NA)
 Assigned ARI Job No: TM63

Project Name: Ecology Carnot Bay
 Delivered by: Fed-EX UPS Courier Hand Delivered Other: _____
 Tracking No: 12A1125E0312379455/12A1125E0309047278
12A1125E0303281193/12A1125E030690460699

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler? YES NO
 Were custody papers included with the cooler? YES NO
 Were custody papers properly filled out (ink, signed, etc.) YES NO
 Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)..... 3.4 4.4 1.5 4.8
 If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: 98941619
 Cooler Accepted by: JM Date: 9/16/11 Time: 1145

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO
 What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____
 Was sufficient ice used (if appropriate)? NA YES NO
 Were all bottles sealed in individual plastic bags? YES NO
 Did all bottles arrive in good condition (unbroken)? YES NO
 Were all bottle labels complete and legible? YES NO
 Did the number of containers listed on COC match with the number of containers received? YES NO
 Did all bottle labels and tags agree with custody papers? YES NO
 Were all bottles used correct for the requested analyses? YES NO
 Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)... NA YES NO
 Were all VOC vials free of air bubbles? NA YES NO
 Was sufficient amount of sample sent in each bottle? YES NO
 Date VOC Trip Blank was made at ARI..... NA
 Was Sample Split by ARI: NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: JM Date: 9/16/11 Time: 1231

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:
Trip Blank Logged on Job TM63

By: JM Date: 9/16/11

			Small → "sm"
			Peabubbles → "pb"
			Large → "lg"
			Headspace → "hs"

Sample ID Cross Reference Report



ARI Job No: TM62
Client: Kennedy Jenks Consultants
Project Event: N/A
Project Name: Ecology Cornet Bay

Sample ID	ARI Lab ID	ARI LIMS ID	Matrix	Sample Date/Time	VTSR
1. KJ-B1-4	TM62A	11-20219	Soil	09/12/11 09:15	09/16/11 11:45
2. KJ-B2-12	TM62B	11-20220	Soil	09/12/11 09:50	09/16/11 11:45
3. KJ-B3-9	TM62C	11-20221	Soil	09/12/11 11:05	09/16/11 11:45
4. KJ-B4-6	TM62D	11-20222	Soil	09/12/11 11:50	09/16/11 11:45
5. KJ-B5-4	TM62E	11-20223	Soil	09/12/11 12:30	09/16/11 11:45
6. KJ-B6-7	TM62F	11-20224	Soil	09/12/11 13:00	09/16/11 11:45
7. KJ-B7-13	TM62G	11-20225	Soil	09/12/11 14:40	09/16/11 11:45
8. KJ-B8-14	TM62H	11-20226	Soil	09/12/11 15:10	09/16/11 11:45
9. KJ-B9-13	TM62I	11-20227	Soil	09/12/11 15:50	09/16/11 11:45
10. KJ-B10-8	TM62J	11-20228	Soil	09/12/11 16:55	09/16/11 11:45
11. KJ-B11-5	TM62K	11-20229	Soil	09/13/11 08:30	09/16/11 11:45
12. KJ-B12-6	TM62L	11-20230	Soil	09/13/11 09:00	09/16/11 11:45
13. KJ-B13-4	TM62M	11-20231	Soil	09/13/11 09:50	09/16/11 11:45
14. KJ-B14-3	TM62N	11-20232	Soil	09/13/11 10:30	09/16/11 11:45
15. KJ-B15-4	TM62O	11-20233	Soil	09/13/11 11:00	09/16/11 11:45
16. KJ-B16-4	TM62P	11-20234	Soil	09/13/11 12:10	09/16/11 11:45
17. KJ-B17-4	TM62Q	11-20235	Soil	09/13/11 13:20	09/16/11 11:45
18. KJ-B18-4	TM62R	11-20236	Soil	09/13/11 14:00	09/16/11 11:45
19. KJ-B19-5	TM62S	11-20237	Soil	09/13/11 14:40	09/16/11 11:45
20. KJ-B7-8	TM62T	11-20238	Soil	09/12/11 14:20	09/16/11 11:45

Printed 09/21/11



Data Reporting Qualifiers

Effective 2/14/2011

Inorganic Data

- U Indicates that the target analyte was not detected at the reported concentration
- * Duplicate RPD is not within established control limits
- B Reported value is less than the CRDL but \geq the Reporting Limit
- N Matrix Spike recovery not within established control limits
- NA Not Applicable, analyte not spiked
- H The natural concentration of the spiked element is so much greater than the concentration spiked that an accurate determination of spike recovery is not possible
- L Analyte concentration is ≤ 5 times the Reporting Limit and the replicate control limit defaults to ± 1 RL instead of the normal 20% RPD

Organic Data

- U Indicates that the target analyte was not detected at the reported concentration
- * Flagged value is not within established control limits
- B Analyte detected in an associated Method Blank at a concentration greater than one-half of ARI's Reporting Limit or 5% of the regulatory limit or 5% of the analyte concentration in the sample.
- J Estimated concentration when the value is less than ARI's established reporting limits
- D The spiked compound was not detected due to sample extract dilution
- E Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.
- Q Indicates a detected analyte with an initial or continuing calibration that does not meet established acceptance criteria ($< 20\%$ RSD, $< 20\%$ Drift or minimum RRF).



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- S Indicates an analyte response that has saturated the detector. The calculated concentration is not valid; a dilution is required to obtain valid quantification of the analyte
- NA The flagged analyte was not analyzed for
- NR Spiked compound recovery is not reported due to chromatographic interference
- NS The flagged analyte was not spiked into the sample
- M Estimated value for an analyte detected and confirmed by an analyst but with low spectral match parameters. This flag is used only for GC-MS analyses
- M2 The sample contains PCB congeners that do not match any standard Aroclor pattern. The PCBs are identified and quantified as the Aroclor whose pattern most closely matches that of the sample. The reported value is an estimate.
- N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification"
- Y The analyte is not detected at or above the reported concentration. The reporting limit is raised due to chromatographic interference. The Y flag is equivalent to the U flag with a raised reporting limit.
- EMPC Estimated Maximum Possible Concentration (EMPC) defined in EPA Statement of Work DLM02.2 as a value "calculated for 2,3,7,8-substituted isomers for which the quantitation and /or confirmation ion(s) has signal to noise in excess of 2.5, but does not meet identification criteria" **(Dioxin/Furan analysis only)**
- C The analyte was positively identified on only one of two chromatographic columns. Chromatographic interference prevented a positive identification on the second column
- P The analyte was detected on both chromatographic columns but the quantified values differ by $\geq 40\%$ RPD with no obvious chromatographic interference
- X Analyte signal includes interference from polychlorinated diphenyl ethers. **(Dioxin/Furan analysis only)**
- Z Analyte signal includes interference from the sample matrix or perfluorokerosene ions. **(Dioxin/Furan analysis only)**



Geotechnical Data

- A The total of all fines fractions. This flag is used to report total fines when only sieve analysis is requested and balances total grain size with sample weight.
- F Samples were frozen prior to particle size determination
- SM Sample matrix was not appropriate for the requested analysis. This normally refers to samples contaminated with an organic product that interferes with the sieving process and/or moisture content, porosity and saturation calculations
- SS Sample did not contain the proportion of "fines" required to perform the pipette portion of the grain size analysis
- W Weight of sample in some pipette aliquots was below the level required for accurate weighting

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 1

Sample ID: MB-092211
METHOD BLANK

Lab Sample ID: MB-092211

QC Report No: TM62-Kennedy Jenks Consultants

LIMS ID: 11-20220

Project: Ecology Cornet Bay

Matrix: Soil

Data Release Authorized: *WWW*

Date Sampled: NA

Reported: 09/27/11

Date Received: NA

Instrument/Analyst: FINN5/PAB

Sample Amount: 5.00 g-dry-wt

Date Analyzed: 09/22/11 10:13

Purge Volume: 5.0 mL

Moisture: NA

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	1.0	< 1.0	U
106-93-4	Ethylene Dibromide	1.0	< 1.0	U
1634-04-4	Methyl tert-Butyl Ether	1.0	< 1.0	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	83.0%
d8-Toluene	101%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Sample ID: KJ-B2-12

Page 1 of 1

SAMPLE

Lab Sample ID: TM62B

QC Report No: TM62-Kennedy Jenks Consultants

LIMS ID: 11-20220

Project: Ecology Cornet Bay

Matrix: Soil

Data Release Authorized: *AB*

Date Sampled: 09/12/11

Reported: 10/05/11

Date Received: 09/16/11

Instrument/Analyst: FINN5/PAB

Sample Amount: 4.44 g-dry-wt

Date Analyzed: 09/22/11 10:59

Purge Volume: 5.0 mL

Moisture: 18.2%

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	1.1	< 1.1	U
106-93-4	Ethylene Dibromide	1.1	< 1.1	U
1634-04-4	Methyl tert-Butyl Ether	1.1	< 1.1	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	90.0%
Bromofluorobenzene	91.9%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 1

Sample ID: KJ-B10-8
SAMPLE

Lab Sample ID: TM62J

QC Report No: TM62-Kennedy Jenks Consultants
Project: Ecology Cornet Bay

LIMS ID: 11-20228

Matrix: Soil

Data Release Authorized: *B*

Reported: 10/05/11

Date Sampled: 09/12/11

Date Received: 09/16/11

Instrument/Analyst: FINN5/PAB

Sample Amount: 4.92 g-dry-wt

Date Analyzed: 09/22/11 11:22

Purge Volume: 5.0 mL

Moisture: 13.9%

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	1.0	< 1.0	U
106-93-4	Ethylene Dibromide	1.0	< 1.0	U
1634-04-4	Methyl tert-Butyl Ether	1.0	< 1.0	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	85.9%
Bromofluorobenzene	92.4%

VOA SURROGATE RECOVERY SUMMARY



Matrix: Soil

QC Report No: TM62-Kennedy Jenks Consultants
Project: Ecology Cornet Bay

ARI ID	Client ID	Level	DCE	TOL	BFB	DCB	TOT OUT
MB-092211	Method Blank	Low	83.0%	NA	92.2%	NA	0
LCS-092211	Lab Control	Low	82.1%	NA	94.3%	NA	0
LCSD-092211	Lab Control Dup	Low	83.0%	NA	93.7%	NA	0
TM62B	KJ-B2-12	Low	90.0%	NA	91.9%	NA	0
TM62J	KJ-B10-8	Low	85.9%	NA	92.4%	NA	0

LCS/MB LIMITS

QC LIMITS

SW8260C	LCS/MB LIMITS		QC LIMITS	
	Low	Med	Low	Med
(DCE) = d4-1,2-Dichloroethane	79-121	76-120	75-152	69-120
(TOL) = d8-Toluene	80-120	80-120	82-115	80-120
(BFB) = Bromofluorobenzene	80-120	80-120	64-120	76-128
(DCB) = d4-1,2-Dichlorobenzene	80-120	80-120	80-120	80-120

Log Number Range: 11-20220 to 11-20228

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 1

Sample ID: LCS-092211
LAB CONTROL SAMPLE

Lab Sample ID: LCS-092211

QC Report No: TM62-Kennedy Jenks Consultants

LIMS ID: 11-20220

Project: Ecology Cornet Bay

Matrix: Soil

Data Release Authorized: *YWW*

Date Sampled: NA

Reported: 09/27/11

Date Received: NA

Instrument/Analyst LCS: FINN5/PAB

Sample Amount LCS: 5.00 g-dry-wt

LCS: FINN5/PAB

LCS: 5.00 g-dry-wt

Date Analyzed LCS: 09/22/11 08:57

Purge Volume LCS: 5.0 mL

LCS: 09/22/11 09:38

LCS: 5.0 mL

Moisture: NA

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
1,2-Dichloroethane	38.5 Q	50.0	77.0%	39.7 Q	50.0	79.4%	3.1%
Ethylene Dibromide	49.2	50.0	98.4%	51.0	50.0	102%	3.6%
Methyl tert-Butyl Ether	48.4	50.0	96.8%	49.4	50.0	98.8%	2.0%

Reported in µg/kg (ppb)

RPD calculated using sample concentrations per SW846.

Volatile Surrogate Recovery

	LCS	LCSD
d4-1,2-Dichloroethane	82.1%	83.0%
d8-Toluene	99.7%	100%

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: finn5.i Injection Date: 22-SEP-2011 08:20
 Lab File ID: 0500922A.d Init. Cal. Date(s): 17-AUG-2011 17-AUG-2011
 Analysis Type: SOIL Init. Cal. Times: 18:42 22:44
 Lab Sample ID: CC0922 Quant Type: ISTD
 Method: /chem1/finn5.i/22SEP11.b/s8260b.m

COMPOUND	RF50		CCAL	MIN	MAX		CURVE TYPE
	RRF / AMOUNT	RF50	RRF50	RRF	%D / %DRIFT	%D / %DRIFT	
1 Dichlorodifluoromethane	0.57813	0.39807	0.39807	0.010	-31.14473	20.00000	Averaged <-
2 Chloromethane	0.99671	0.95004	0.95004	0.100	-4.68233	20.00000	Averaged
3 Vinyl Chloride	1.01840	0.78838	0.78838	0.010	-22.58605	20.00000	Averaged <-
4 Bromomethane	0.43931	0.40231	0.40231	0.010	-8.42235	20.00000	Averaged
5 Chloroethane	0.46148	0.50687	0.50687	0.010	9.83575	20.00000	Averaged
6 Trichlorofluoromethane	0.91046	0.82918	0.82918	0.010	-8.92743	20.00000	Averaged
7 Acrolein	0.09121	0.09617	0.09617	0.010	5.43754	20.00000	Averaged
8 1,1,2-Trichloro-1,2,2-Trifluoroeth	0.51618	0.55694	0.55694	0.010	7.89691	20.00000	Averaged
9 Acetone	0.21280	0.27290	0.27290	0.010	28.24599	20.00000	Averaged <-
10 1,1-Dichloroethene	0.46088	0.46392	0.46392	0.010	0.65844	20.00000	Averaged
11 Bromoethane	0.36238	0.37694	0.37694	0.010	4.01794	20.00000	Averaged
12 Iodomethane	0.72189	0.74993	0.74993	0.010	3.88401	20.00000	Averaged
13 Methylene Chloride	52.96632	50.00000	0.57106	0.010	5.93265	20.00000	Linear
14 Acrylonitrile	0.19367	0.19780	0.19780	0.010	2.12996	20.00000	Averaged
16 Methyl tert-Butyl Ether	1.20918	1.08710	1.08710	0.010	-10.09616	20.00000	Averaged
15 Carbon Disulfide	1.80536	1.88624	1.88624	0.010	4.48014	20.00000	Averaged
17 Trans-1,2-Dichloroethene	0.50595	0.51692	0.51692	0.010	2.16816	20.00000	Averaged
18 Vinyl Acetate	0.90440	0.82991	0.82991	0.010	-8.23575	20.00000	Averaged
19 1,1-Dichloroethane	1.12471	1.08350	1.08350	0.100	-3.66431	20.00000	Averaged
20 2-Butanone	0.30386	0.34070	0.34070	0.010	12.12401	20.00000	Averaged
21 2,2-Dichloropropane	0.73083	0.63487	0.63487	0.010	-13.13033	20.00000	Averaged
22 Cis-1,2-Dichloroethene	0.52766	0.57055	0.57055	0.010	8.12797	20.00000	Averaged
24 Chloroform	1.00012	0.92373	0.92373	0.010	-7.63826	20.00000	Averaged
26 Bromochloromethane	0.26181	0.28107	0.28107	0.010	7.35726	20.00000	Averaged
\$ 25 Dibromofluoromethane	0.53840	0.52710	0.52710	0.010	-2.09798	20.00000	Averaged
27 1,1,1-Trichloroethane	0.80658	0.67627	0.67627	0.010	-16.15596	20.00000	Averaged
29 1,1-Dichloropropene	0.60402	0.52185	0.52185	0.010	-13.60429	20.00000	Averaged
30 Carbon Tetrachloride	0.58452	0.44005	0.44005	0.010	-24.71663	20.00000	Averaged <-
\$ 31 d4-1,2-Dichloroethane	0.66927	0.52611	0.52611	0.010	-21.39152	20.00000	Averaged <-
32 1,2-Dichloroethane	0.61583	0.45533	0.45533	0.010	-26.06282	20.00000	Averaged <-
33 Benzene	1.47568	1.47115	1.47115	0.010	-0.30697	20.00000	Averaged
35 Trichloroethene	0.45637	0.41630	0.41630	0.010	-8.78006	20.00000	Averaged
36 1,2-Dichloropropane	0.51519	0.51306	0.51306	0.010	-0.41198	20.00000	Averaged
37 Bromodichloromethane	0.56637	0.49351	0.49351	0.010	-12.86329	20.00000	Averaged
39 Dibromomethane	0.26671	0.24749	0.24749	0.010	-7.20938	20.00000	Averaged

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: finn5.i Injection Date: 22-SEP-2011 08:20
 Lab File ID: 0500922A.d Init. Cal. Date(s): 17-AUG-2011 17-AUG-2011
 Analysis Type: SOIL Init. Cal. Times: 18:42 22:44
 Lab Sample ID: CC0922 Quant Type: ISTD
 Method: /chem1/finn5.i/22SEP11.b/s8260b.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
40 2-Chloroethyl Vinyl Ether	0.08792	0.12102	0.12102	0.001	37.64683	20.00000	Averaged
41 4-Methyl-2-Pentanone	0.13593	0.12606	0.12606	0.010	-7.26269	20.00000	Averaged
42 Cis 1,3-dichloropropene	0.60721	0.58861	0.58861	0.010	-3.06378	20.00000	Averaged
43 d8-Toluene	1.19857	1.20537	1.20537	0.010	0.56800	20.00000	Averaged
44 Toluene	0.83609	0.80760	0.80760	0.010	-3.40656	20.00000	Averaged
45 Trans 1,3-Dichloropropene	0.50989	0.47908	0.47908	0.010	-6.04292	20.00000	Averaged
46 2-Hexanone	0.39138	0.37852	0.37852	0.010	-3.28642	20.00000	Averaged
47 1,1,2-Trichloroethane	0.29492	0.27967	0.27967	0.010	-5.17096	20.00000	Averaged
48 1,3-Dichloropropane	0.60950	0.57135	0.57135	0.010	-6.25992	20.00000	Averaged
49 Tetrachloroethene	0.51481	0.46068	0.46068	0.010	-10.51542	20.00000	Averaged
50 Chlorodibromomethane	0.46700	0.42345	0.42345	0.010	-9.32594	20.00000	Averaged
51 1,2-Dibromoethane	0.33430	0.31628	0.31628	0.010	-5.39249	20.00000	Averaged
53 Chlorobenzene	1.00578	1.01080	1.01080	0.300	0.49930	20.00000	Averaged
54 Ethyl Benzene	1.75218	1.70467	1.70467	0.010	-2.71102	20.00000	Averaged
55 1,1,1,2-Tetrachloroethane	0.40385	0.36130	0.36130	0.010	-10.53801	20.00000	Averaged
56 m,p-xylene	0.63169	0.62084	0.62084	0.010	-1.71683	20.00000	Averaged
57 o-Xylene	0.62985	0.62703	0.62703	0.010	-0.44723	20.00000	Averaged
58 Styrene	1.02321	1.02077	1.02077	0.010	-0.23814	20.00000	Averaged
59 Isopropyl Benzene	3.31387	3.21361	3.21361	0.010	-3.02543	20.00000	Averaged
60 Bromoform	0.65758	0.61575	0.61575	0.100	-6.36078	20.00000	Averaged
61 1,1,2,2-Tetrachloroethane	0.92076	0.91930	0.91930	0.300	-0.15806	20.00000	Averaged
62 4-Bromofluorobenzene	0.55057	0.50618	0.50618	0.010	-8.06260	20.00000	Averaged
63 1,2,3-Trichloropropane	0.19543	0.17208	0.17208	0.010	-11.94694	20.00000	Averaged
65 Trans-1,4-Dichloro 2-Butene	0.32872	0.28576	0.28576	0.010	-13.06938	20.00000	Averaged
66 N-Propyl Benzene	3.82381	3.93094	3.93094	0.010	2.80162	20.00000	Averaged
67 Bromobenzene	0.95577	0.92449	0.92449	0.010	-3.27222	20.00000	Averaged
68 1,3,5-Trimethyl Benzene	2.72130	2.60330	2.60330	0.010	-4.33625	20.00000	Averaged
69 2-Chloro Toluene	2.49067	2.31946	2.31946	0.010	-6.87413	20.00000	Averaged
70 4-Chloro Toluene	2.60264	2.59569	2.59569	0.010	-0.26720	20.00000	Averaged
71 T-Butyl Benzene	2.46044	2.27384	2.27384	0.010	-7.58416	20.00000	Averaged
72 1,2,4-Trimethylbenzene	2.66731	2.59570	2.59570	0.010	-2.68468	20.00000	Averaged
73 S-Butyl Benzene	3.49334	3.51044	3.51044	0.010	0.48953	20.00000	Averaged
74 4-Isopropyl Toluene	2.69574	2.60994	2.60994	0.010	-3.18267	20.00000	Averaged
75 1,3-Dichlorobenzene	1.58994	1.59312	1.59312	0.010	0.20018	20.00000	Averaged
77 1,4-Dichlorobenzene	1.53840	1.55382	1.55382	0.010	1.00256	20.00000	Averaged

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: finn5.i Injection Date: 22-SEP-2011 08:20
Lab File ID: 0500922A.d Init. Cal. Date(s): 17-AUG-2011 17-AUG-2011
Analysis Type: SOIL Init. Cal. Times: 18:42 22:44
Lab Sample ID: CC0922 Quant Type: ISTD
Method: /chem1/finn5.i/22SEP11.b/s8260b.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
78 N-Butyl Benzene	2.90553	2.94286	2.94286	0.010	1.28489	20.00000	Averaged
79 d4-1,2-Dichlorobenzene	0.90104	0.88132	0.88132	0.010	-2.18808	20.00000	Averaged
80 1,2-Dichlorobenzene	1.44303	1.45630	1.45630	0.010	0.91946	20.00000	Averaged
81 1,2-Dibromo 3-Chloropropane	0.18867	0.15461	0.15461	0.010	-18.05401	20.00000	Averaged
82 1,2,4-Trichlorobenzene	1.13589	1.09050	1.09050	0.010	-3.99609	20.00000	Averaged
83 Hexachloro 1,3-Butadiene	0.88974	0.72719	0.72719	0.010	-18.26891	20.00000	Averaged
84 Naphthalene	1.96018	1.83393	1.83393	0.010	-6.44066	20.00000	Averaged
85 1,2,3-Trichlorobenzene	1.06115	0.98715	0.98715	0.010	-6.97399	20.00000	Averaged

ORGANICS ANALYSIS DATA SHEET
PNA's by SIM SW8270D-SIM GC/MS
 Page 1 of 1

Sample ID: MB-092111
METHOD BLANK

Lab Sample ID: MB-092111
 LIMS ID: 11-20228
 Matrix: Soil
 Data Release Authorized: *[Signature]*
 Reported: 09/26/11

QC Report No: TM62-Kennedy Jenks Consultants
 Project: Ecology Cornet Bay
 Event: NA
 Date Sampled: NA
 Date Received: NA

Date Extracted: 09/21/11
 Date Analyzed: 09/26/11 16:39
 Instrument/Analyst: NT4/JZ
 GPC Cleanup: No
 Silica Gel Cleanup: Yes
 Alumina Cleanup: No

Sample Amount: 10.00 g-dry-wt
 Final Extract Volume: 0.5 mL
 Dilution Factor: 1.00
 Percent Moisture: NA

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	5.0	< 5.0 U
91-57-6	2-Methylnaphthalene	5.0	< 5.0 U
90-12-0	1-Methylnaphthalene	5.0	< 5.0 U
208-96-8	Acenaphthylene	5.0	< 5.0 U
83-32-9	Acenaphthene	5.0	< 5.0 U
86-73-7	Fluorene	5.0	< 5.0 U
85-01-8	Phenanthrene	5.0	< 5.0 U
120-12-7	Anthracene	5.0	< 5.0 U
206-44-0	Fluoranthene	5.0	< 5.0 U
129-00-0	Pyrene	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	5.0	< 5.0 U
218-01-9	Chrysene	5.0	< 5.0 U
50-32-8	Benzo(a)pyrene	5.0	< 5.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	< 5.0 U
53-70-3	Dibenz(a,h)anthracene	5.0	< 5.0 U
191-24-2	Benzo(g,h,i)perylene	5.0	< 5.0 U
132-64-9	Dibenzofuran	5.0	< 5.0 U
TOTBFA	Total Benzofluoranthenes	5.0	< 5.0 U


Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 63.7%
 d14-Dibenzo(a,h)anthracen 48.0%

ORGANICS ANALYSIS DATA SHEET
PNAs by SIM SW8270D-SIM GC/MS
Page 1 of 1

Sample ID: KJ-B2-12
SAMPLE

Lab Sample ID: TM62B
LIMS ID: 11-20220
Matrix: Soil
Data Release Authorized: 
Reported: 09/26/11

QC Report No: TM62-Kennedy Jenks Consultants
Project: Ecology Cornet Bay
Event: NA
Date Sampled: 09/12/11
Date Received: 09/16/11

Date Extracted: 09/21/11
Date Analyzed: 09/26/11 14:03
Instrument/Analyst: NT4/JZ
GPC Cleanup: No
Silica Gel Cleanup: Yes
Alumina Cleanup: No

Sample Amount: 10.82 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 19.6%

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	4.6	390
91-57-6	2-Methylnaphthalene	4.6	77
90-12-0	1-Methylnaphthalene	4.6	64
208-96-8	Acenaphthylene	4.6	< 4.6 U
83-32-9	Acenaphthene	4.6	110
86-73-7	Fluorene	4.6	77
85-01-8	Phenanthrene	4.6	130
120-12-7	Anthracene	4.6	18
206-44-0	Fluoranthene	4.6	38
129-00-0	Pyrene	4.6	24
56-55-3	Benzo(a)anthracene	4.6	< 4.6 U
218-01-9	Chrysene	4.6	< 4.6 U
50-32-8	Benzo(a)pyrene	4.6	< 4.6 U
193-39-5	Indeno(1,2,3-cd)pyrene	4.6	< 4.6 U
53-70-3	Dibenz(a,h)anthracene	4.6	< 4.6 U
191-24-2	Benzo(g,h,i)perylene	4.6	< 4.6 U
132-64-9	Dibenzofuran	4.6	50
TOTBFA	Total Benzofluoranthenes	4.6	< 4.6 U


Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 80.7%
d14-Dibenzo(a,h)anthracen 105%

ORGANICS ANALYSIS DATA SHEET
PNAs by SIM SW8270D-SIM GC/MS
Page 1 of 1

Sample ID: KJ-B10-8
SAMPLE

Lab Sample ID: TM62J
LIMS ID: 11-20228
Matrix: Soil
Data Release Authorized: 
Reported: 09/26/11

QC Report No: TM62-Kennedy Jenks Consultants
Project: Ecology Cornet Bay
Event: NA
Date Sampled: 09/12/11
Date Received: 09/16/11

Date Extracted: 09/21/11
Date Analyzed: 09/26/11 14:34
Instrument/Analyst: NT4/JZ
GPC Cleanup: No
Silica Gel Cleanup: Yes
Alumina Cleanup: No

Sample Amount: 10.85 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 17.1%

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	4.6	190
91-57-6	2-Methylnaphthalene	4.6	61
90-12-0	1-Methylnaphthalene	4.6	72
208-96-8	Acenaphthylene	4.6	< 4.6 U
83-32-9	Acenaphthene	4.6	61
86-73-7	Fluorene	4.6	29
85-01-8	Phenanthrene	4.6	37
120-12-7	Anthracene	4.6	< 4.6 U
206-44-0	Fluoranthene	4.6	5.1
129-00-0	Pyrene	4.6	5.4
56-55-3	Benzo(a)anthracene	4.6	< 4.6 U
218-01-9	Chrysene	4.6	< 4.6 U
50-32-8	Benzo(a)pyrene	4.6	< 4.6 U
193-39-5	Indeno(1,2,3-cd)pyrene	4.6	< 4.6 U
53-70-3	Dibenz(a,h)anthracene	4.6	< 4.6 U
191-24-2	Benzo(g,h,i)perylene	4.6	< 4.6 U
132-64-9	Dibenzofuran	4.6	28
TOTBFA	Total Benzofluoranthenes	4.6	< 4.6 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 71.3%
d14-Dibenzo(a,h)anthracen 89.3%

SIM SW8270 SURROGATE RECOVERY SUMMARY

Matrix: Soil

QC Report No: TM62-Kennedy Jenks Consultants
Project: Ecology Cornet Bay

<u>Client ID</u>	<u>MNP</u>	<u>DBA</u>	<u>TOT OUT</u>
KJ-B2-12	80.7%	105%	0
MB-092111	63.7%	48.0%	0
LCS-092111	85.3%	103%	0
LCSD-092111	77.0%	93.7%	0
KJ-B10-8	71.3%	89.3%	0
KJ-B10-8 MS	81.7%	102%	0
KJ-B10-8 MSD	82.3%	108%	0

LCS/MB LIMITS QC LIMITS

(MNP) = d10-2-Methylnaphthalene (35-100) (34-100)
(DBA) = d14-Dibenzo(a,h)anthracene (37-120) (10-117)

Prep Method: SW3546
Log Number Range: 11-20220 to 11-20228

ORGANICS ANALYSIS DATA SHEET

PNAs by SW8270D-SIM GC/MS

Page 1 of 1

Sample ID: KJ-B10-8

MATRIX SPIKE

Lab Sample ID: TM62J

LIMS ID: 11-20228

Matrix: Soil

Data Release Authorized: 

Reported: 09/26/11

QC Report No: TM62-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Event: NA

Date Sampled: 09/12/11

Date Received: 09/16/11

Date Extracted MS/MSD: 09/21/11

Sample Amount MS: 11.5 g-dry-wt

MSD: 11.2 g-dry-wt

Date Analyzed MS: 09/26/11 15:06

Final Extract Volume MS: 0.50 mL

MSD: 09/26/11 15:37

MSD: 0.50 mL

Instrument/Analyst MS: NT4/JZ

Dilution Factor MS: 1.00

MSD: NT4/JZ

MSD: 1.00


Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Naphthalene	191	318	130	97.7%	291	133	75.2%	8.9%
2-Methylnaphthalene	61.1	130	130	53.0%	126	133	48.8%	3.1%
1-Methylnaphthalene	72.2	175	130	79.1%	175	133	77.3%	0.0%
Acenaphthylene	< 4.6 U	124	130	95.4%	116	133	87.2%	6.7%
Acenaphthene	61.4	186	130	95.8%	161	133	74.9%	14.4%
Fluorene	28.6	154	130	96.5%	139	133	83.0%	10.2%
Phenanthrene	37.1	167	130	99.9%	149	133	84.1%	11.4%
Anthracene	< 4.6 U	131	130	101%	122	133	91.7%	7.1%
Fluoranthene	5.1	144	130	107%	137	133	99.2%	5.0%
Pyrene	5.4	140	130	104%	136	133	98.2%	2.9%
Benzo(a)anthracene	< 4.6 U	153	130	118%	143	133	108%	6.8%
Chrysene	< 4.6 U	131	130	101%	125	133	94.0%	4.7%
Benzo(a)pyrene	< 4.6 U	125	130	96.2%	114	133	85.7%	9.2%
Indeno(1,2,3-cd)pyrene	< 4.6 U	130	130	100%	126	133	94.7%	3.1%
Dibenz(a,h)anthracene	< 4.6 U	128	130	98.5%	125	133	94.0%	2.4%
Benzo(g,h,i)perylene	< 4.6 U	127	130	97.7%	120	133	90.2%	5.7%
Dibenzofuran	28.1	139	130	85.3%	128	133	75.1%	8.2%
Total Benzofluoranthenes	< 4.6 U	272	260	105%	227	267	85.0%	18.0%

Reported in µg/kg (ppb)

RPD calculated using sample concentrations per SW846.

ORGANICS ANALYSIS DATA SHEET
PNAs by SIM SW8270D-SIM GC/MS
Page 1 of 1

Sample ID: KJ-B10-8
MATRIX SPIKE

Lab Sample ID: TM62J
LIMS ID: 11-20228
Matrix: Soil
Data Release Authorized: 
Reported: 09/26/11

QC Report No: TM62-Kennedy Jenks Consultants
Project: Ecology Cornet Bay
Event: NA
Date Sampled: 09/12/11
Date Received: 09/16/11

Date Extracted: 09/21/11
Date Analyzed: 09/26/11 15:06
Instrument/Analyst: NT4/JZ
GPC Cleanup: No
Silica Gel Cleanup: Yes
Alumina Cleanup: No

Sample Amount: 11.54 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 17.1%

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	4.6	---
91-57-6	2-Methylnaphthalene	4.6	---
90-12-0	1-Methylnaphthalene	4.6	---
208-96-8	Acenaphthylene	4.6	---
83-32-9	Acenaphthene	4.6	---
86-73-7	Fluorene	4.6	---
85-01-8	Phenanthrene	4.6	---
120-12-7	Anthracene	4.6	---
206-44-0	Fluoranthene	4.6	---
129-00-0	Pyrene	4.6	---
56-55-3	Benzo(a)anthracene	4.6	---
218-01-9	Chrysene	4.6	---
50-32-8	Benzo(a)pyrene	4.6	---
193-39-5	Indeno(1,2,3-cd)pyrene	4.6	---
53-70-3	Dibenz(a,h)anthracene	4.6	---
191-24-2	Benzo(g,h,i)perylene	4.6	---
132-64-9	Dibenzofuran	4.6	---
TOTBFA	Total Benzofluoranthenes	4.6	---


Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 81.7%
d14-Dibenzo(a,h)anthracen 102%

ORGANICS ANALYSIS DATA SHEET
PNA's by SIM SW8270D-SIM GC/MS
 Page 1 of 1

Sample ID: KJ-B10-8
MATRIX SPIKE DUPLICATE

Lab Sample ID: TM62J
 LIMS ID: 11-20228
 Matrix: Soil
 Data Release Authorized: 
 Reported: 09/26/11

QC Report No: TM62-Kennedy Jenks Consultants
 Project: Ecology Cornet Bay
 Event: NA
 Date Sampled: 09/12/11
 Date Received: 09/16/11

Date Extracted: 09/21/11
 Date Analyzed: 09/26/11 15:37
 Instrument/Analyst: NT4/JZ
 GPC Cleanup: No
 Silica Gel Cleanup: Yes
 Alumina Cleanup: No

Sample Amount: 11.24 g-dry-wt
 Final Extract Volume: 0.5 mL
 Dilution Factor: 1.00
 Percent Moisture: 17.1%

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	4.4	---
91-57-6	2-Methylnaphthalene	4.4	---
90-12-0	1-Methylnaphthalene	4.4	---
208-96-8	Acenaphthylene	4.4	---
83-32-9	Acenaphthene	4.4	---
86-73-7	Fluorene	4.4	---
85-01-8	Phenanthrene	4.4	---
120-12-7	Anthracene	4.4	---
206-44-0	Fluoranthene	4.4	---
129-00-0	Pyrene	4.4	---
56-55-3	Benzo(a)anthracene	4.4	---
218-01-9	Chrysene	4.4	---
50-32-8	Benzo(a)pyrene	4.4	---
193-39-5	Indeno(1,2,3-cd)pyrene	4.4	---
53-70-3	Dibenz(a,h)anthracene	4.4	---
191-24-2	Benzo(g,h,i)perylene	4.4	---
132-64-9	Dibenzofuran	4.4	---
TOTBFA	Total Benzofluoranthenes	4.4	---

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 82.3%
 d14-Dibenzo(a,h)anthracen 108%

ORGANICS ANALYSIS DATA SHEET

PNA's by SW8270D-SIM GC/MS

Page 1 of 1

Sample ID: LCS-092111

LAB CONTROL SAMPLE

Lab Sample ID: LCS-092111

LIMS ID: 11-20228

Matrix: Soil

Data Release Authorized: *[Signature]*

Reported: 09/26/11

QC Report No: TM62-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Event: NA

Date Sampled: NA

Date Received: NA

Date Extracted: 09/21/11

Sample Amount LCS: 10.0 g-dry-wt

LCS: 10.0 g-dry-wt

Date Analyzed LCS: 09/26/11 12:30

Final Extract Volume LCS: 0.50 mL

LCS: 09/26/11 13:01

LCS: 0.50 mL

Instrument/Analyst LCS: NT4/JZ

Dilution Factor LCS: 1.00

LCS: NT4/JZ

LCS: 1.00

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCS	LCS	Spike Added-LCS	LCS Recovery	RPD
Naphthalene	110	150	73.3%	105	150	70.0%	4.7%	
2-Methylnaphthalene	106	150	70.7%	102	150	68.0%	3.8%	
1-Methylnaphthalene	120	150	80.0%	113	150	75.3%	6.0%	
Acenaphthylene	125	150	83.3%	117	150	78.0%	6.6%	
Acenaphthene	113	150	75.3%	108	150	72.0%	4.5%	
Fluorene	121	150	80.7%	120	150	80.0%	0.8%	
Phenanthrene	129	150	86.0%	123	150	82.0%	4.8%	
Anthracene	151	150	101%	127	150	84.7%	17.3%	
Fluoranthene	145	150	96.7%	146	150	97.3%	0.7%	
Pyrene	150	150	100%	148	150	98.7%	1.3%	
Benzo(a)anthracene	164	150	109%	161	150	107%	1.8%	
Chrysene	142	150	94.7%	142	150	94.7%	0.0%	
Benzo(a)pyrene	130	150	86.7%	127	150	84.7%	2.3%	
Indeno(1,2,3-cd)pyrene	132	150	88.0%	116	150	77.3%	12.9%	
Dibenz(a,h)anthracene	135	150	90.0%	129	150	86.0%	4.5%	
Benzo(g,h,i)perylene	120	150	80.0%	128	150	85.3%	6.5%	
Dibenzofuran	109	150	72.7%	105	150	70.0%	3.7%	
Total Benzofluoranthenes	259	300	86.3%	264	300	88.0%	1.9%	

Reported in µg/kg (ppb)

RPD calculated using sample concentrations per SW846.

SIM Semivolatile Surrogate Recovery

	LCS	LCS
d10-2-Methylnaphthalene	85.3%	77.0%
d14-Dibenzo(a,h)anthracen	103%	93.7%

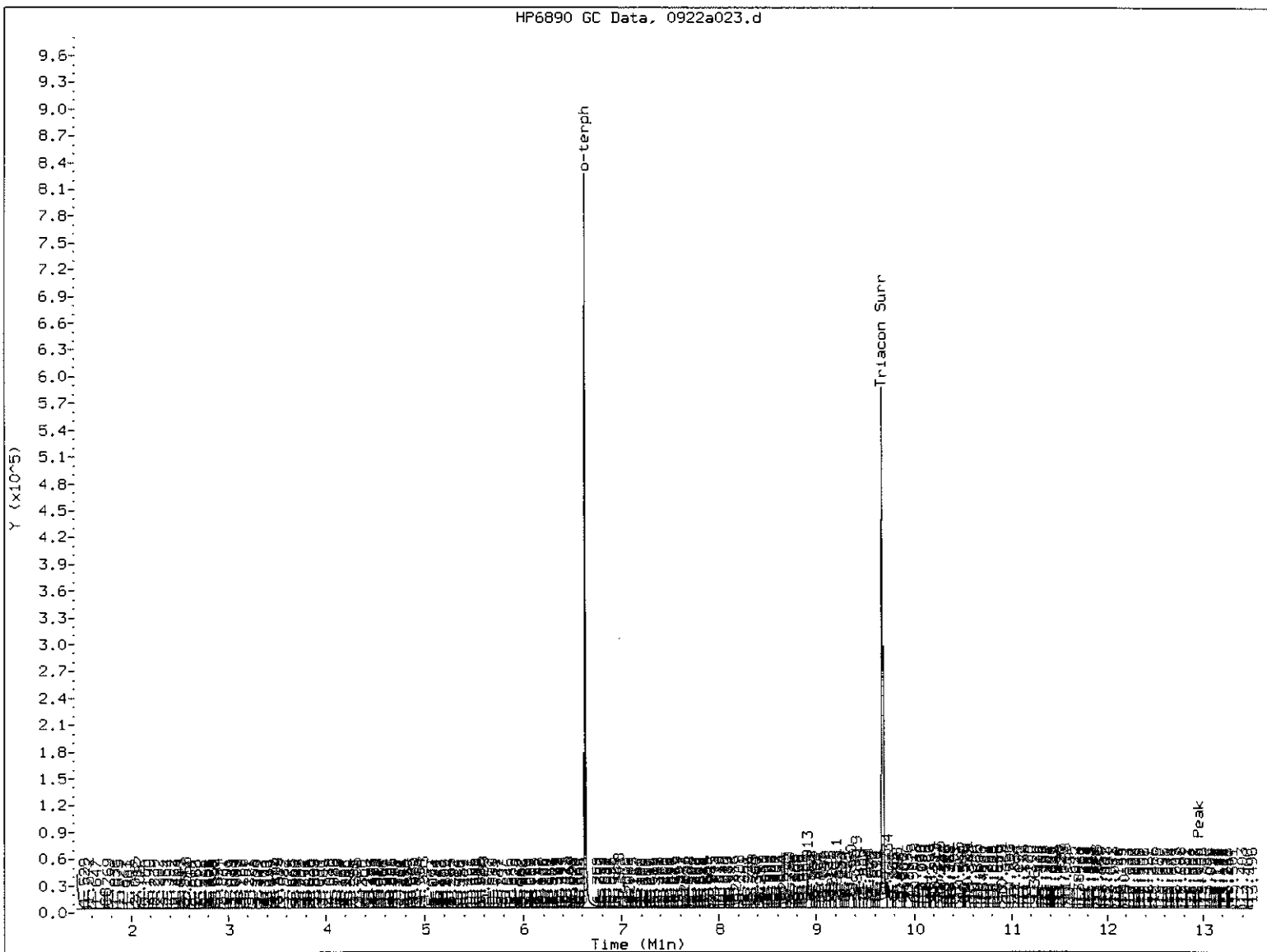
**ORGANICS ANALYSIS DATA SHEET
TOTAL DIESEL RANGE HYDROCARBONS**

NWTPHD by GC/FID-Silica and Acid Cleaned
Page 1 of 2
Matrix: Soil

QC Report No: TM62-Kennedy Jenks Consultants
Project: Ecology Cornet Bay

Data Release Authorized: *B*
Reported: 09/23/11

ARI ID	Sample ID	Extraction Date	Analysis Date	EFV DL	Range	RL	Result
TM62A 11-20219	KJ-B1-4 HC ID: MOTOR OIL	09/21/11	09/22/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	6.6 13	< 6.6 U 16 80.4%
TM62B 11-20220	KJ-B2-12 HC ID: ---	09/21/11	09/22/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	6.1 12	< 6.1 U < 12 U 86.6%
TM62C 11-20221	KJ-B3-9 HC ID: ---	09/21/11	09/22/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	6.1 12	< 6.1 U < 12 U 87.2%
TM62D 11-20222	KJ-B4-6 HC ID: ---	09/21/11	09/22/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	5.8 12	< 5.8 U < 12 U 81.0%
TM62E 11-20223	KJ-B5-4 HC ID: DRO/MOTOR OIL	09/21/11	09/22/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	5.9 12	9.6 53 77.6%
TM62F 11-20224	KJ-B6-7 HC ID: ---	09/21/11	09/22/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	5.8 12	< 5.8 U < 12 U 86.4%
TM62G 11-20225	KJ-B7-13 HC ID: ---	09/21/11	09/22/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	6.2 12	< 6.2 U < 12 U 81.6%
TM62H 11-20226	KJ-B8-14 HC ID: ---	09/21/11	09/22/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	5.9 12	< 5.9 U < 12 U 87.4%
TM62I 11-20227	KJ-B9-13 HC ID: ---	09/21/11	09/22/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	5.9 12	< 5.9 U < 12 U 82.9%
TM62J 11-20228	KJ-B10-8 HC ID: ---	09/21/11	09/22/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	5.9 12	< 5.9 U < 12 U 78.5%
TM62K 11-20229	KJ-B11-5 HC ID: DIESEL	09/21/11	09/23/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	5.5 11	41 < 11 U 84.4%
TM62L 11-20230	KJ-B12-6 HC ID: ---	09/21/11	09/23/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	5.8 12	< 5.8 U < 12 U 86.0%
TM62M 11-20231	KJ-B13-4 HC ID: ---	09/21/11	09/23/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	6.5 13	< 6.5 U < 13 U 83.1%



MANUAL INTEGRATION

1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation
5. Other Surr pk overlap

Analyst: AR

Date: 9/23/2011

Data File: /chem3/fid4a.i/20110922.b/0922a023.d

Date : 22-SEP-2011 20:11

Client ID: KJ-B1-4

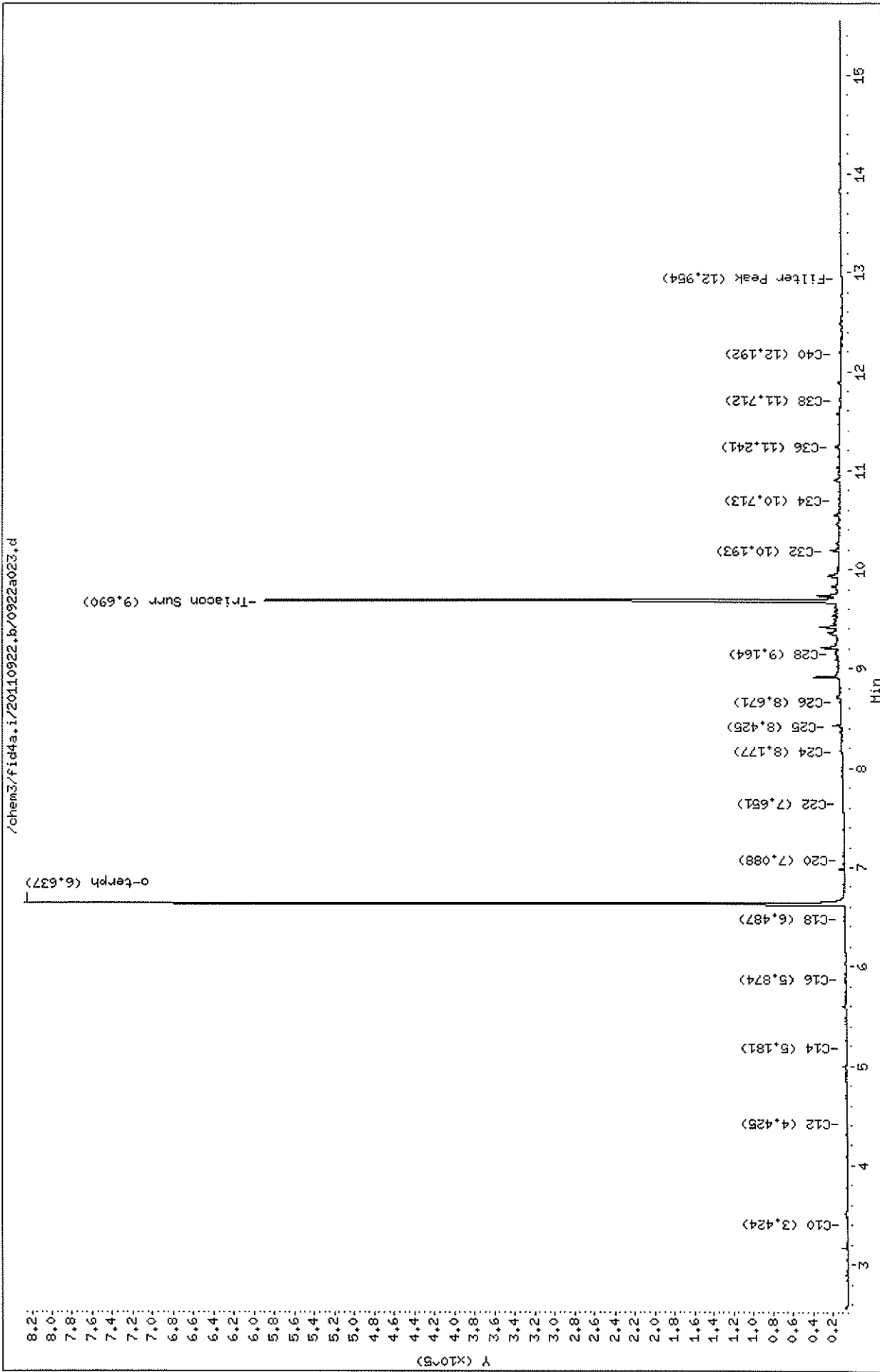
Sample Info: TM62A

Instrument: fid4a.i

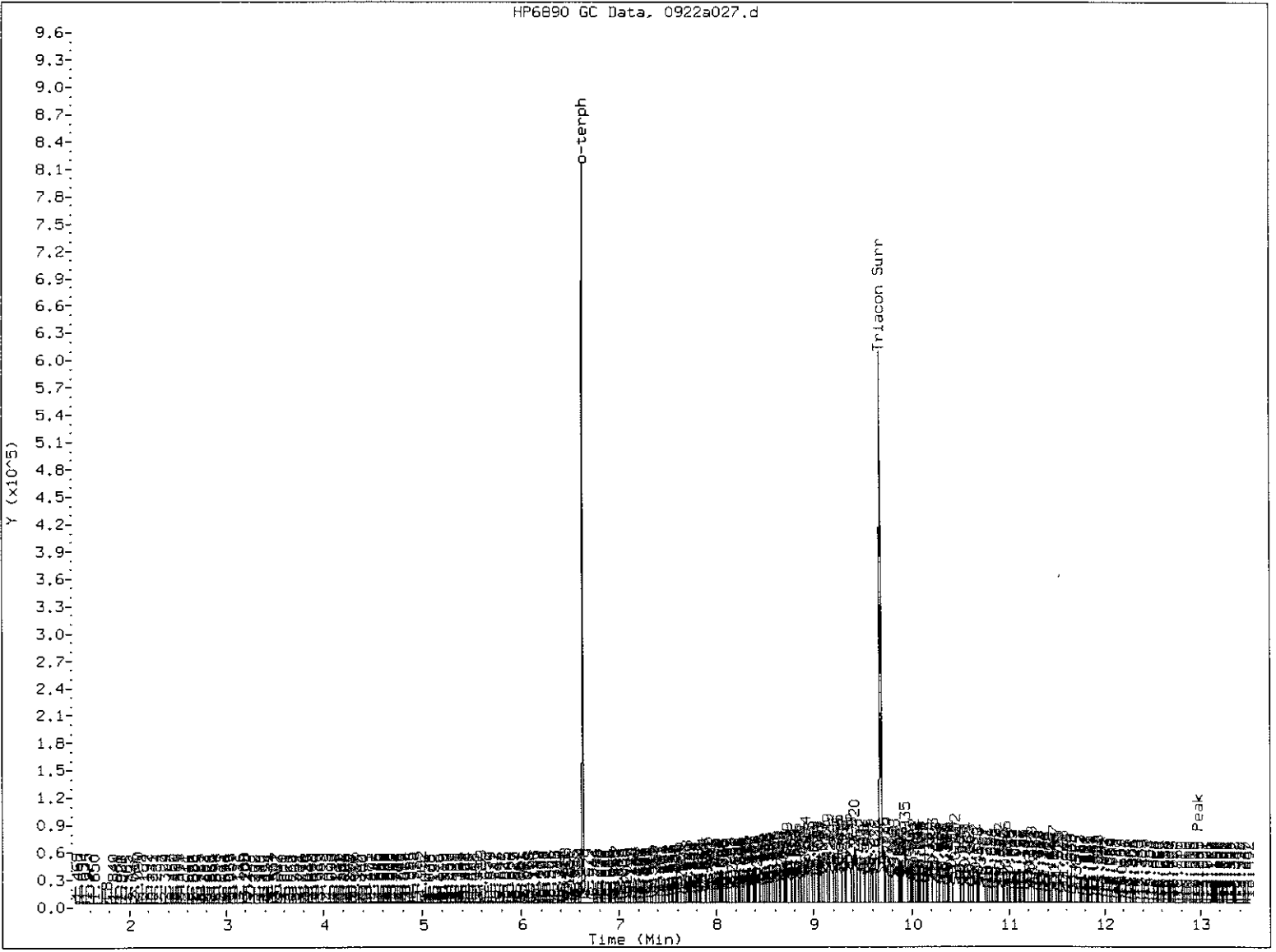
Operator: MS

Column diameter: 0.25

Column phase: RTX-1



HP6890 GC Data, 0922a027.d



MANUAL INTEGRATION

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

5. Other Surr pk overlap

Analyst: AR

Date: 9/23/201

Data File: /chem3/fid4a.i/20110922.b/0922a027.d

Date : 22-SEP-2011 21:43

Client ID: KJ-B5-4

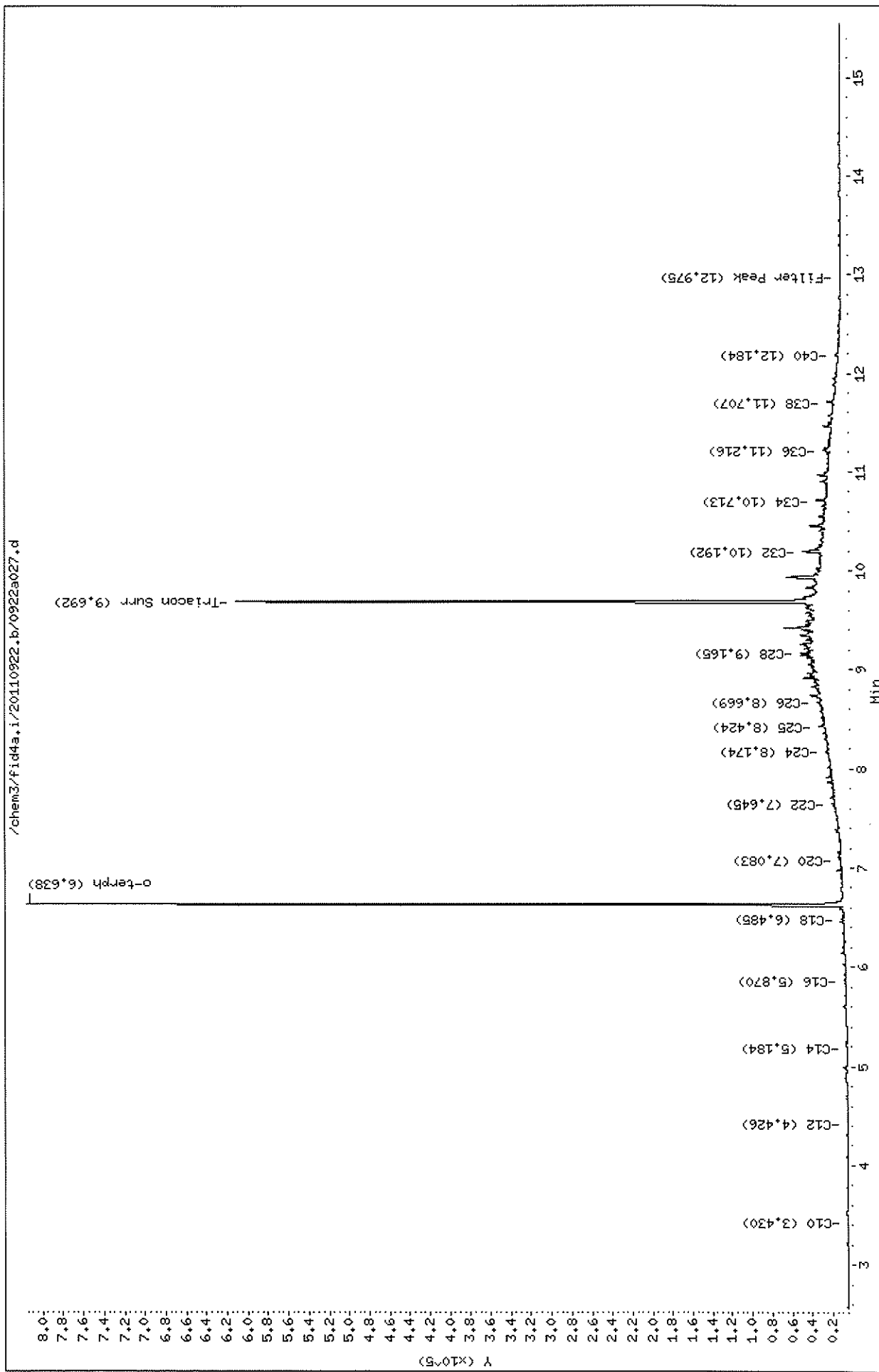
Sample Info: TH62E

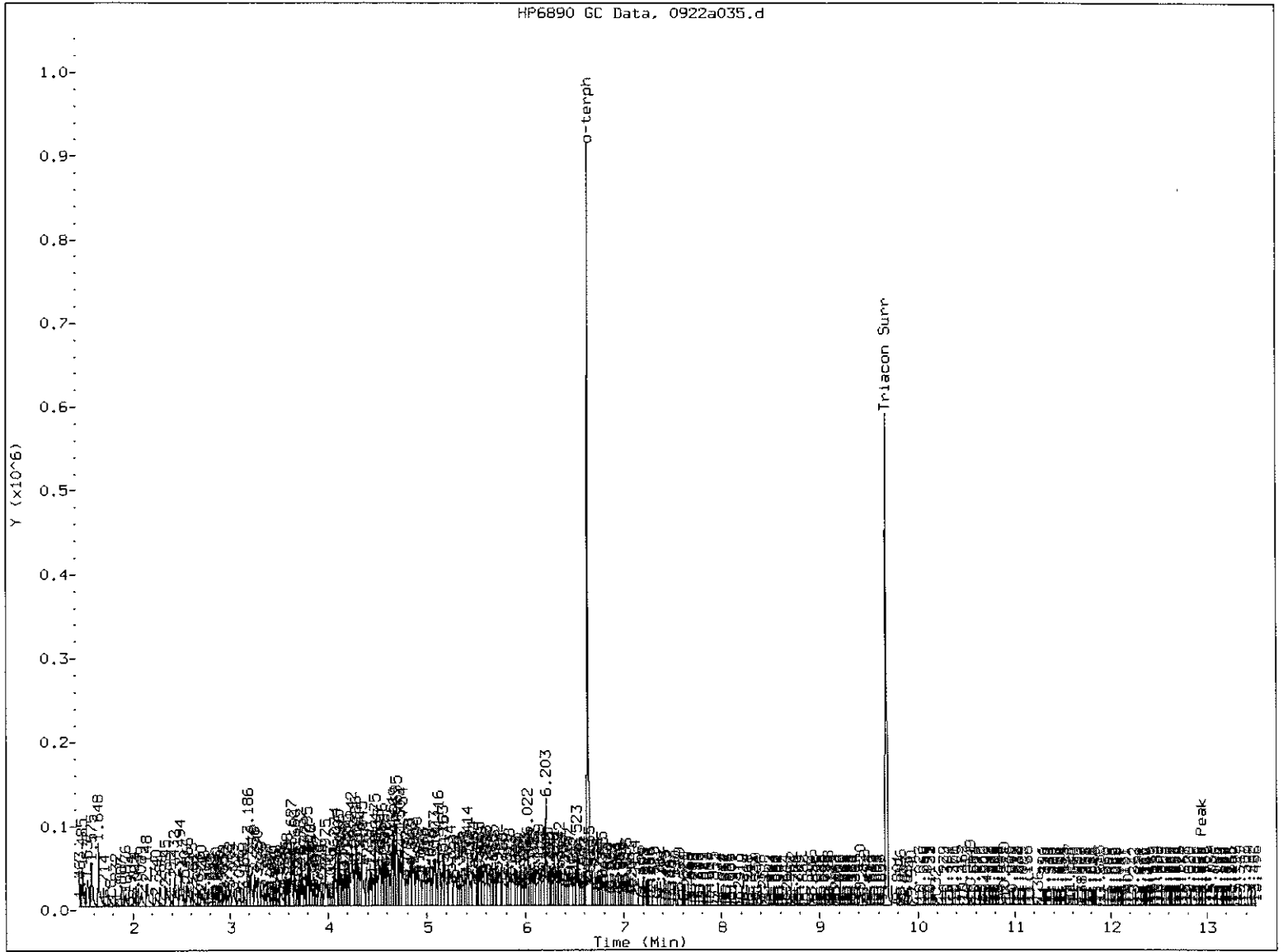
Instrument: fid4a.i

Operator: MS

Column diameter: 0.25

Column phase: RTX-1





MANUAL INTEGRATION

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

5. Other Surr pk overlap

Analyst: AR

Date: 9/23/2011

Data File: /chem3/fid4a.i/20110922.b/0922a035.d

Date : 23-SEP-2011 00:48

Client ID: KJ-B11-5

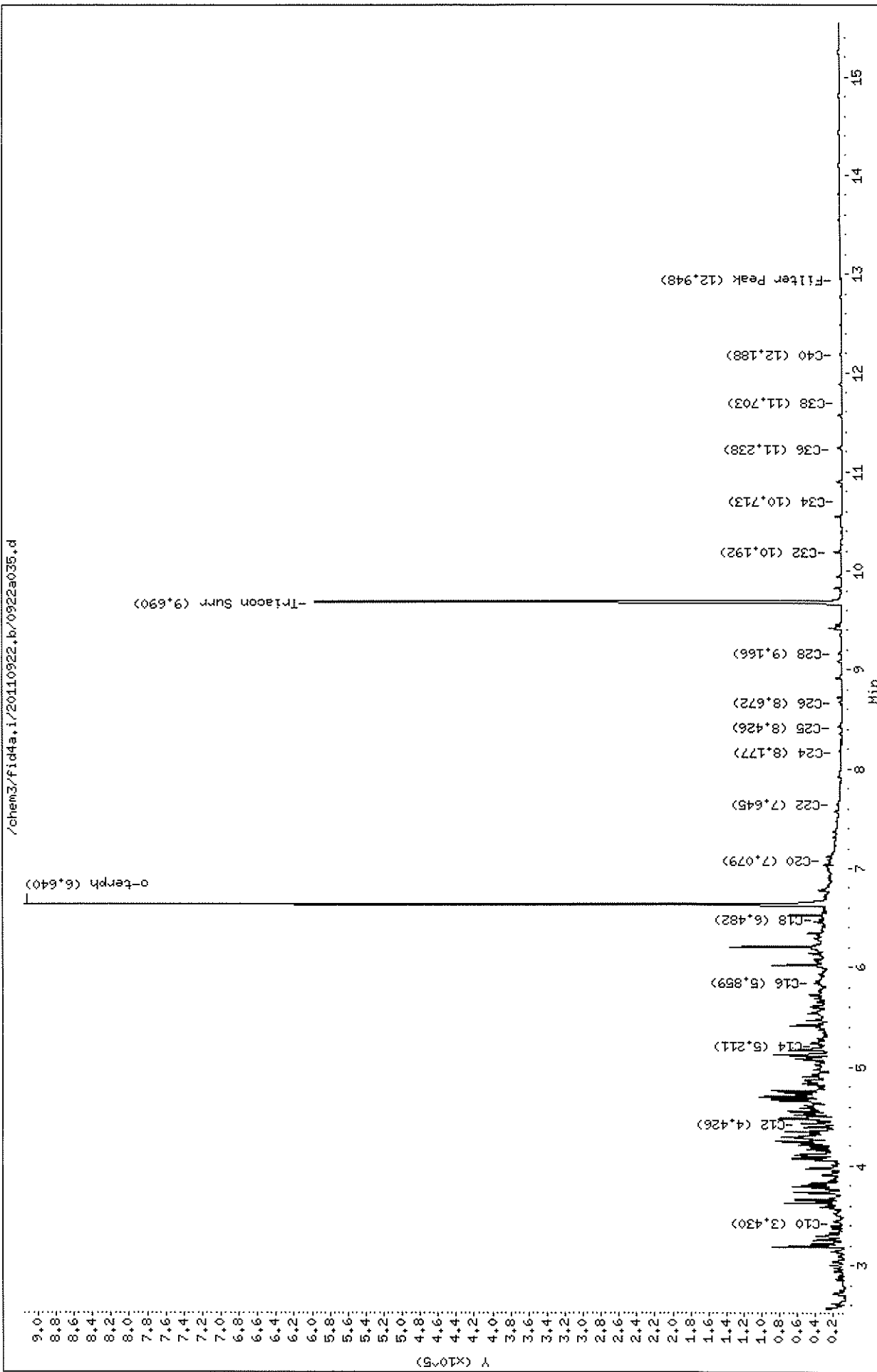
Sample Info: TH62K

Instrument: fid4a.i

Operator: MS

Column diameter: 0.25

Column phase: RTX-1



**ORGANICS ANALYSIS DATA SHEET
TOTAL DIESEL RANGE HYDROCARBONS**

NWTPHD by GC/FID-Silica and Acid Cleaned
Page 2 of 2
Matrix: Soil

QC Report No: TM62-Kennedy Jenks Consultants
Project: Ecology Cornet Bay

Data Release Authorized: *[Signature]*
Reported: 09/23/11

ARI ID	Sample ID	Extraction Date	Analysis Date	EFV DL	Range	RL	Result
MB-092111 11-20232	Method Blank HC ID: ---	09/21/11	09/22/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	5.0 10	< 5.0 U < 10 U 86.1%
TM62N 11-20232	KJ-B14-3 HC ID: DIESEL	09/21/11	09/23/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	5.1 10	13 < 10 U 87.3%
TM62O 11-20233	KJ-B15-4 HC ID: ---	09/21/11	09/23/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	5.8 12	< 5.8 U < 12 U 85.5%
TM62P 11-20234	KJ-B16-4 HC ID: DRO/MOTOR OIL	09/21/11	09/23/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	5.7 12	11 72 84.6%
TM62Q 11-20235	KJ-B17-4 HC ID: ---	09/21/11	09/23/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	5.7 11	< 5.7 U < 11 U 89.1%
TM62R 11-20236	KJ-B18-4 HC ID: ---	09/21/11	09/23/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	5.5 11	< 5.5 U < 11 U 83.8%
TM62S 11-20237	KJ-B19-5 HC ID: DRO	09/21/11	09/23/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	5.9 12	69 < 12 U 88.4%
TM62T 11-20238	KJ-B7-8 HC ID: ---	09/21/11	09/23/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	6.1 12	< 6.1 U < 12 U 87.3%

Reported in mg/kg (ppm)

EFV-Effective Final Volume in mL.
DL-Dilution of extract prior to analysis.
RL-Reporting limit.

Diesel quantitation on total peaks in the range from C12 to C24.
Motor Oil quantitation on total peaks in the range from C24 to C38.
HC ID: DRO/RRO indicate results of organics or additional hydrocarbons in ranges are not identifiable.

Data File: /chem3/fid4a.i/20110922.b/0922a020.d

Date : 22-SEP-2011 19:01

Client ID: TM62MBS1

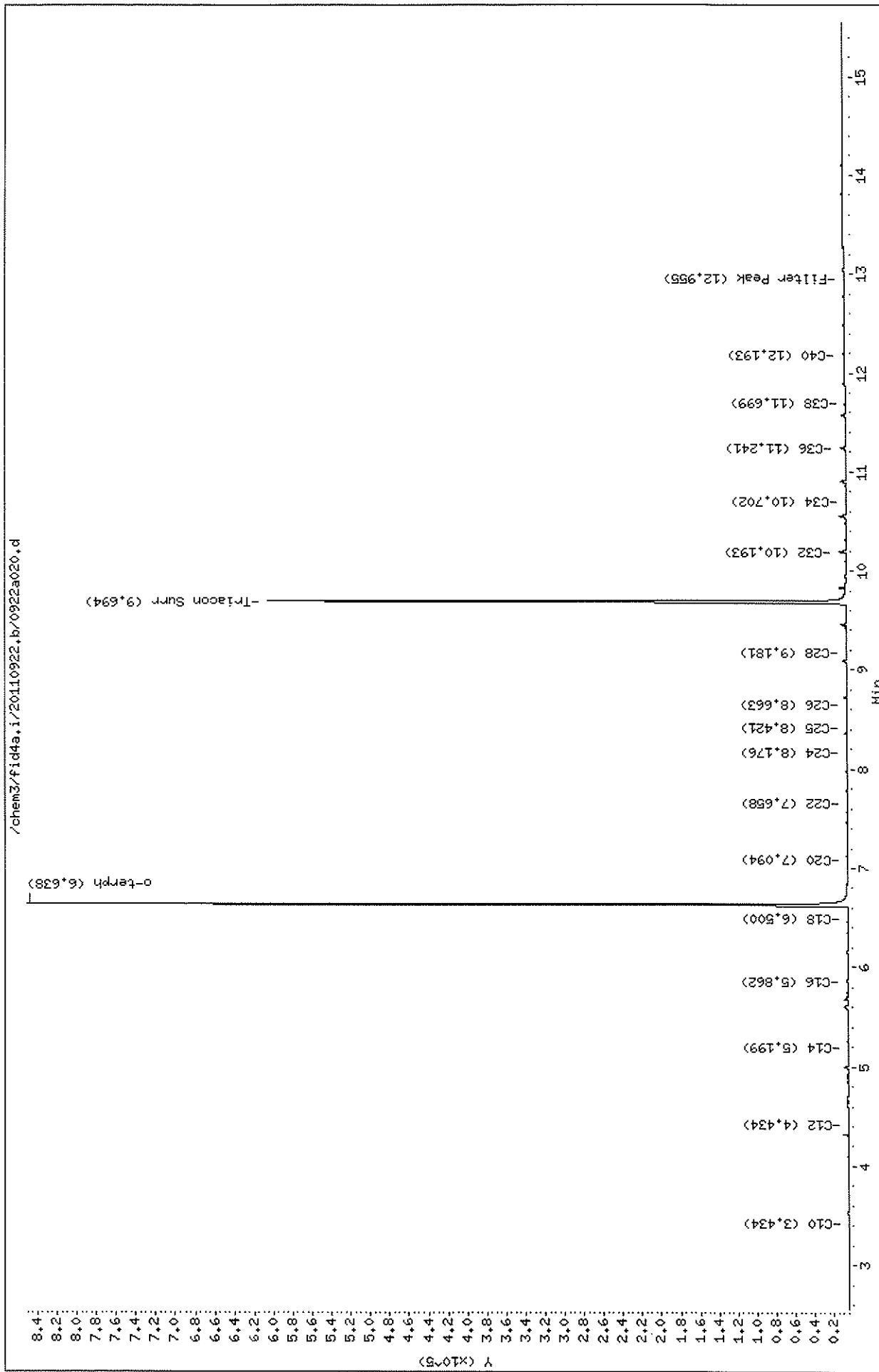
Sample Info: TM62MBS1

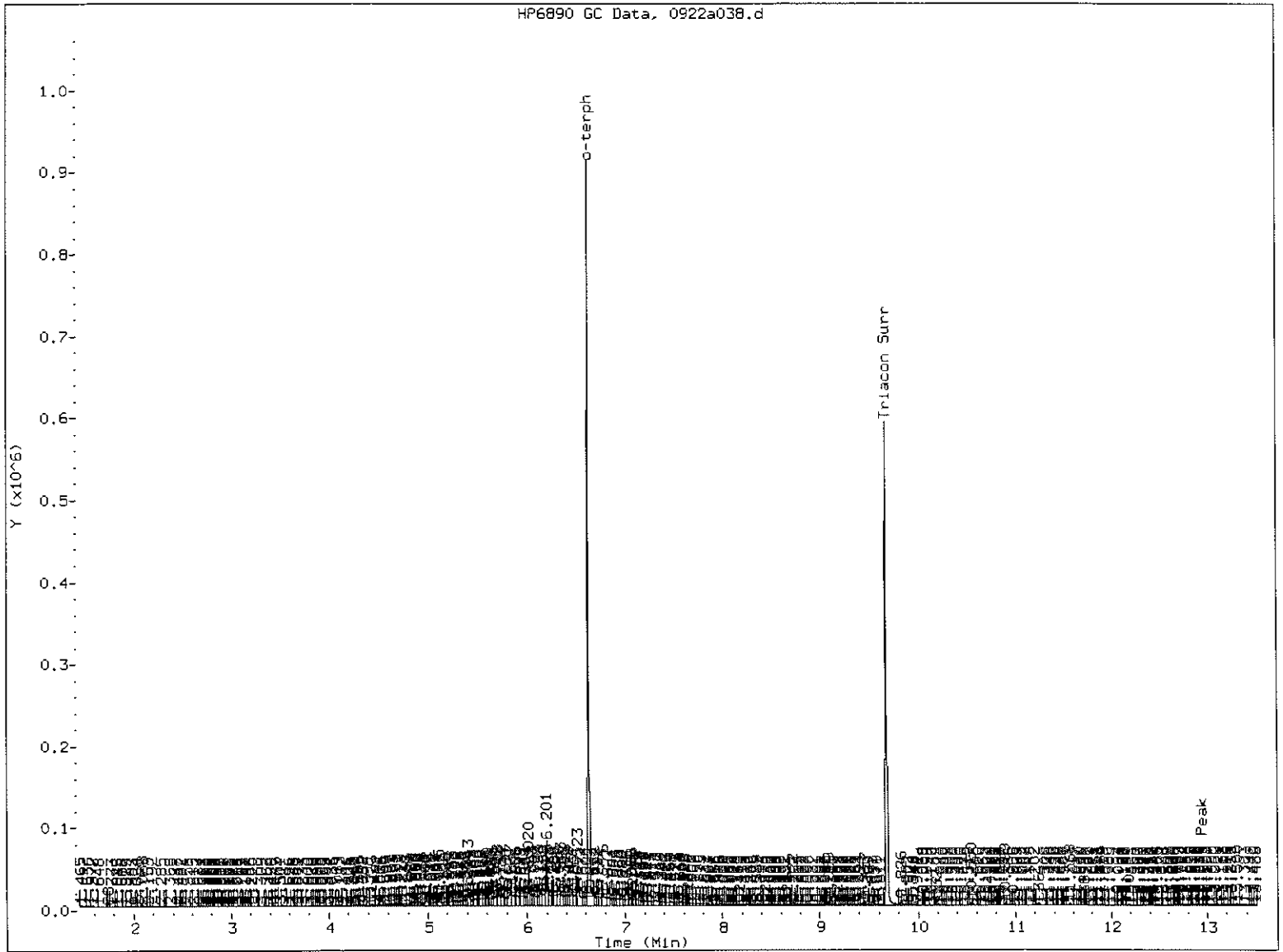
Instrument: fid4a.i

Operator: MS

Column diameter: 0.25

Column phase: RTX-1





MANUAL INTEGRATION

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other Surr pk overlap

Analyst: AR Date: 9/23/2011

Data File: /chem3/fid4a,i/20110922.b/0922a038.d

Date : 23-SEP-2011 01:58

Client ID: KJ-B14-3

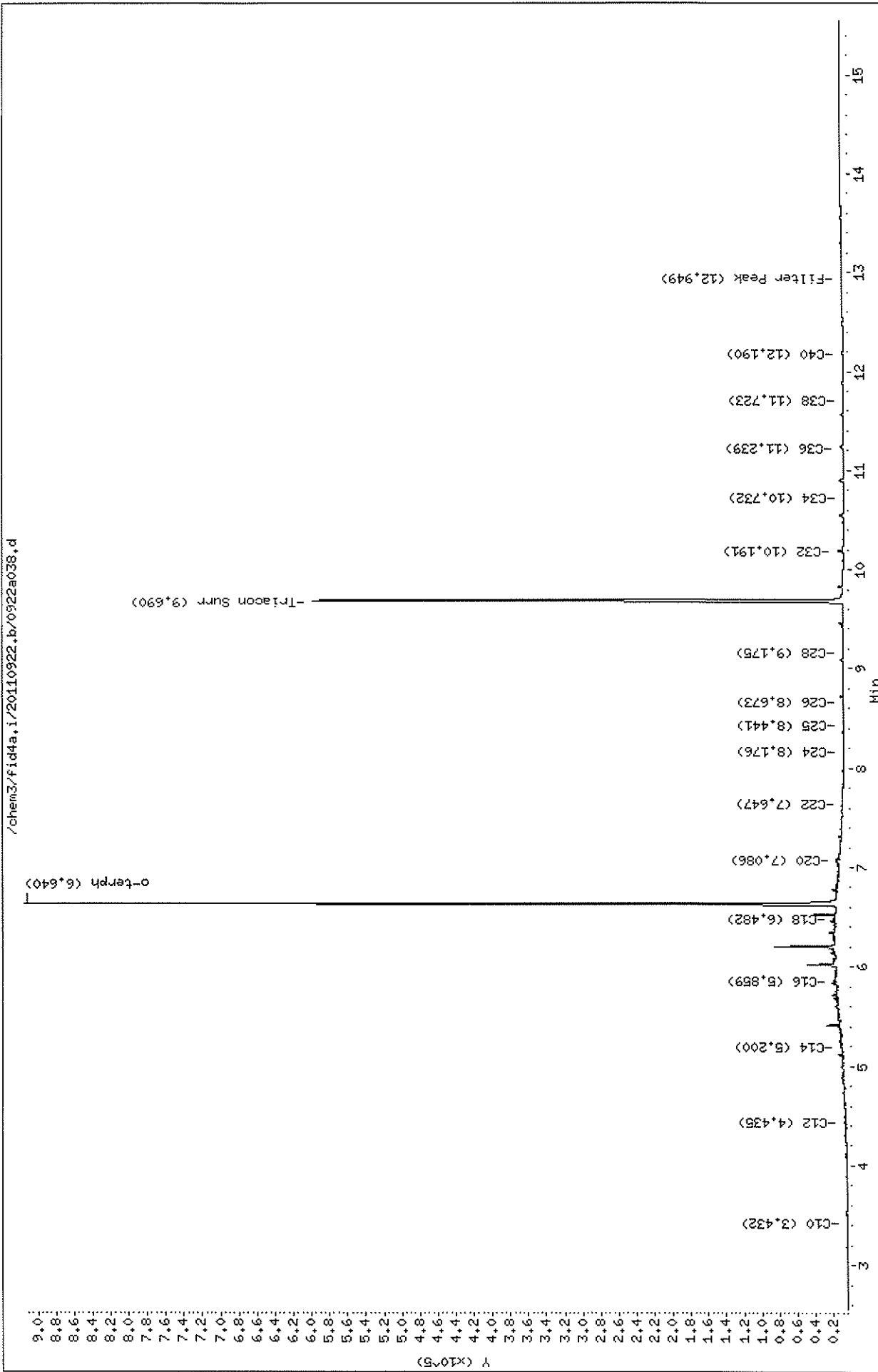
Sample Info: TH62N

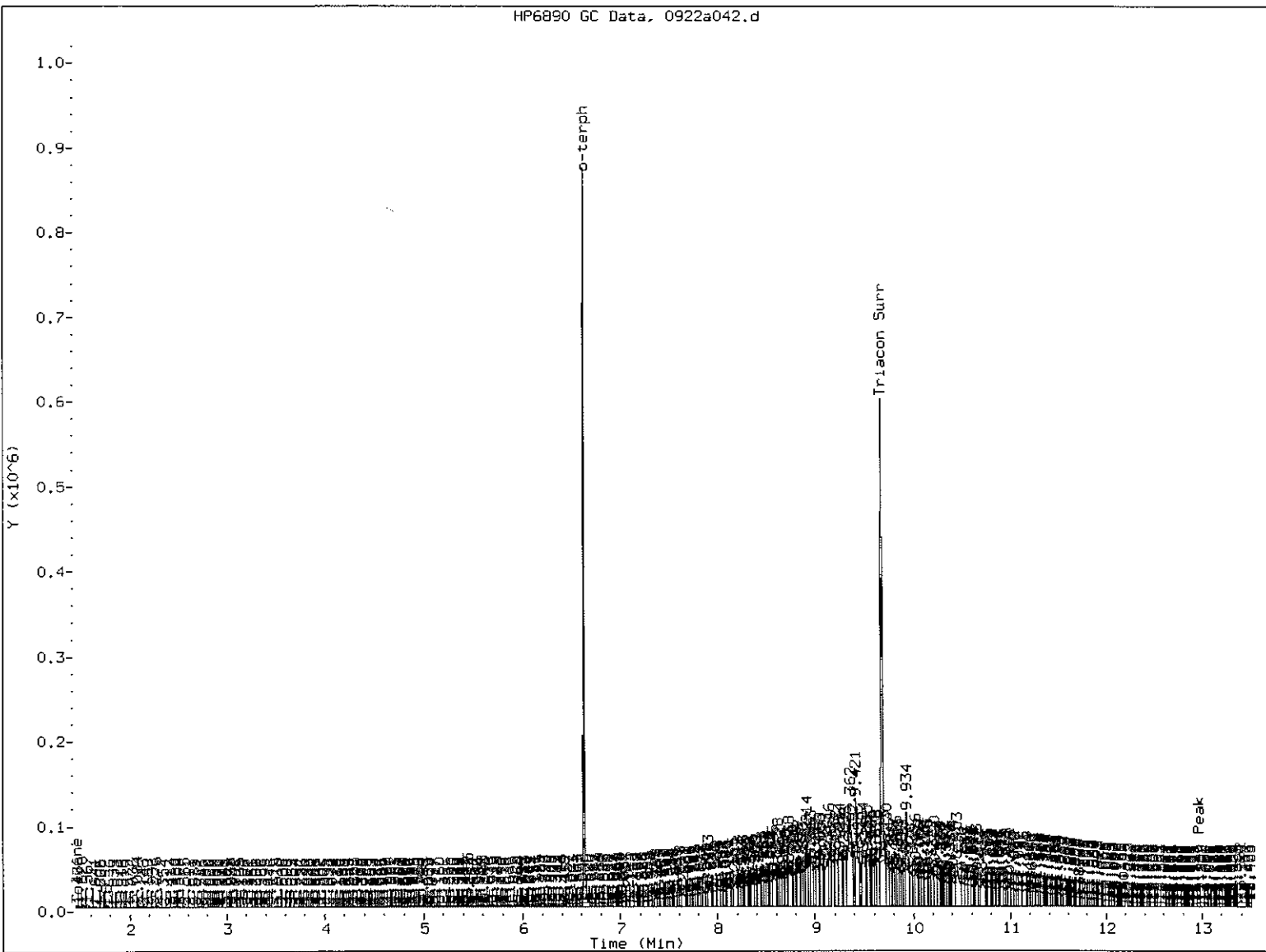
Instrument: fid4a,i

Operator: MS

Column diameter: 0.25

Column phase: RTX-1





MANUAL INTEGRATION

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

5. Other Surr pk overlap

Analyst: AR

Date: 9/23/2011

Data File: /chem3/fid4a.i/20110922.b/0922a042.d

Date: 23-SEP-2011 03:32

Client ID: KJ-B16-4

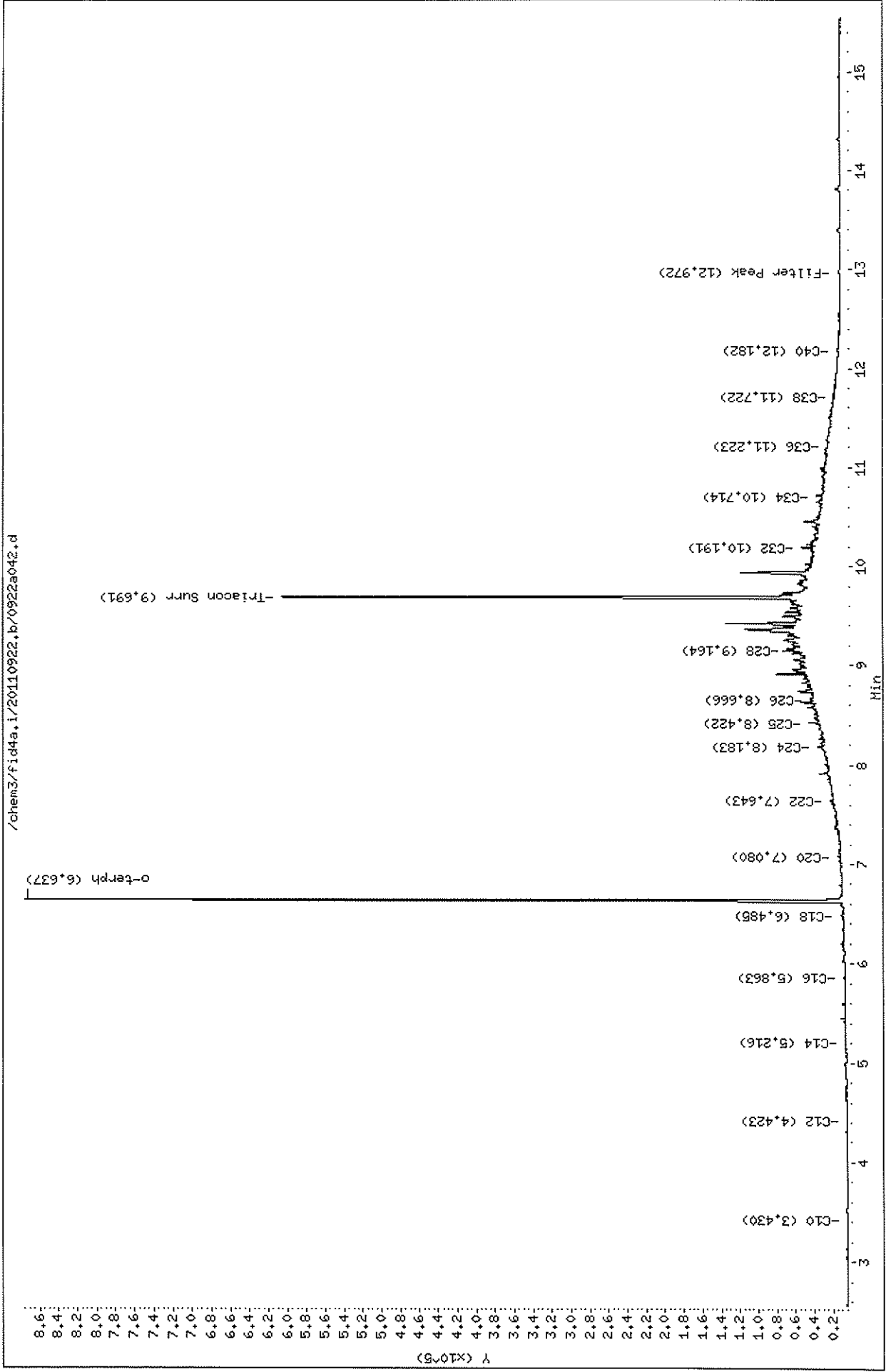
Sample Info: TH62P

Instrument: fid4a.i

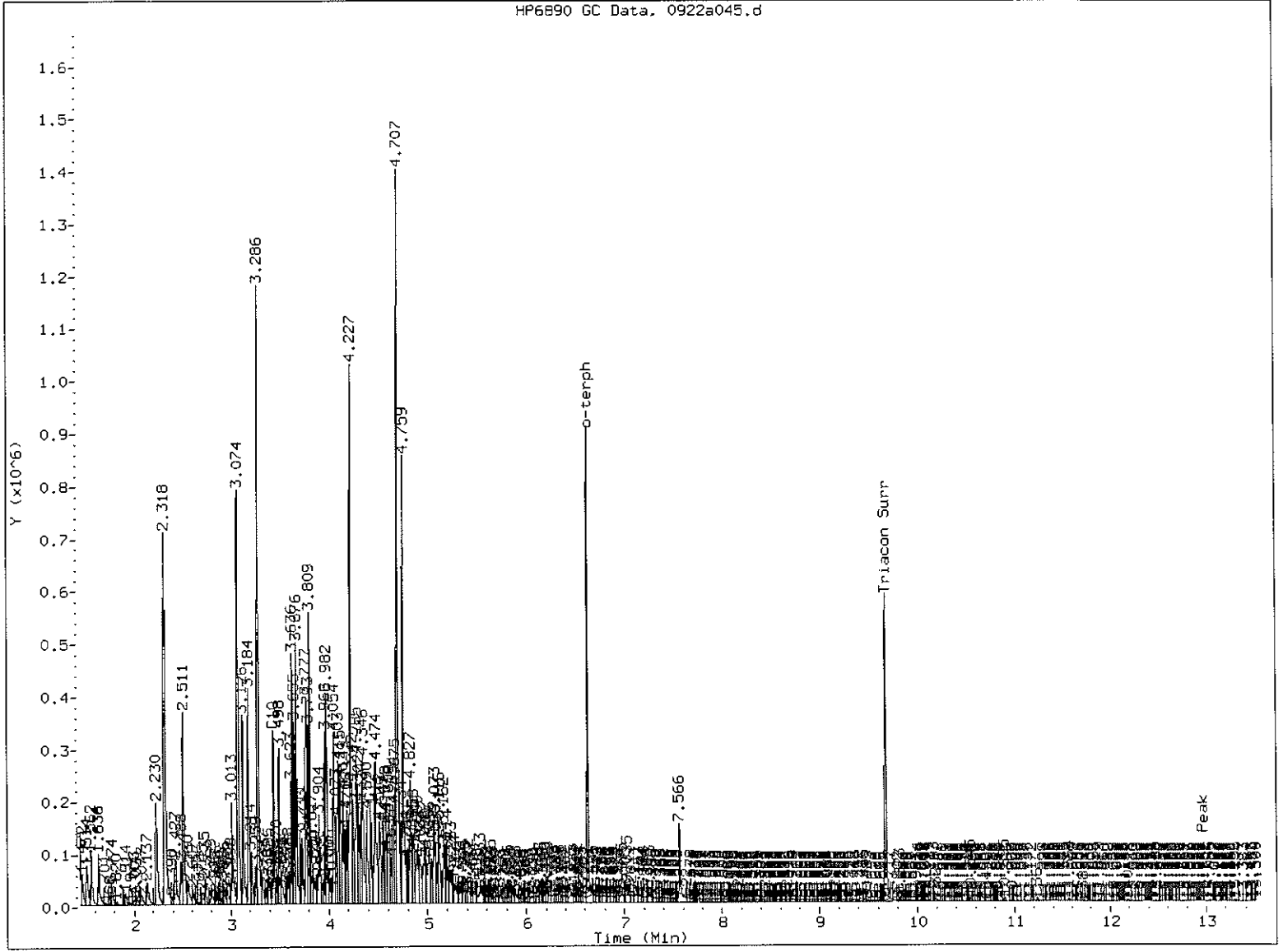
Operator: MS

Column diameter: 0.25

Column phase: RTX-1



76999 : 29M.L



MANUAL INTEGRATION

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other Surr pk overlap

Analyst: AR

Date: 9/23/2011

Data File: /chem3/fid4a.i/20110922.b/0922a045.d

Date : 23-SEP-2011 04:42

Client ID: KJ-B19-5

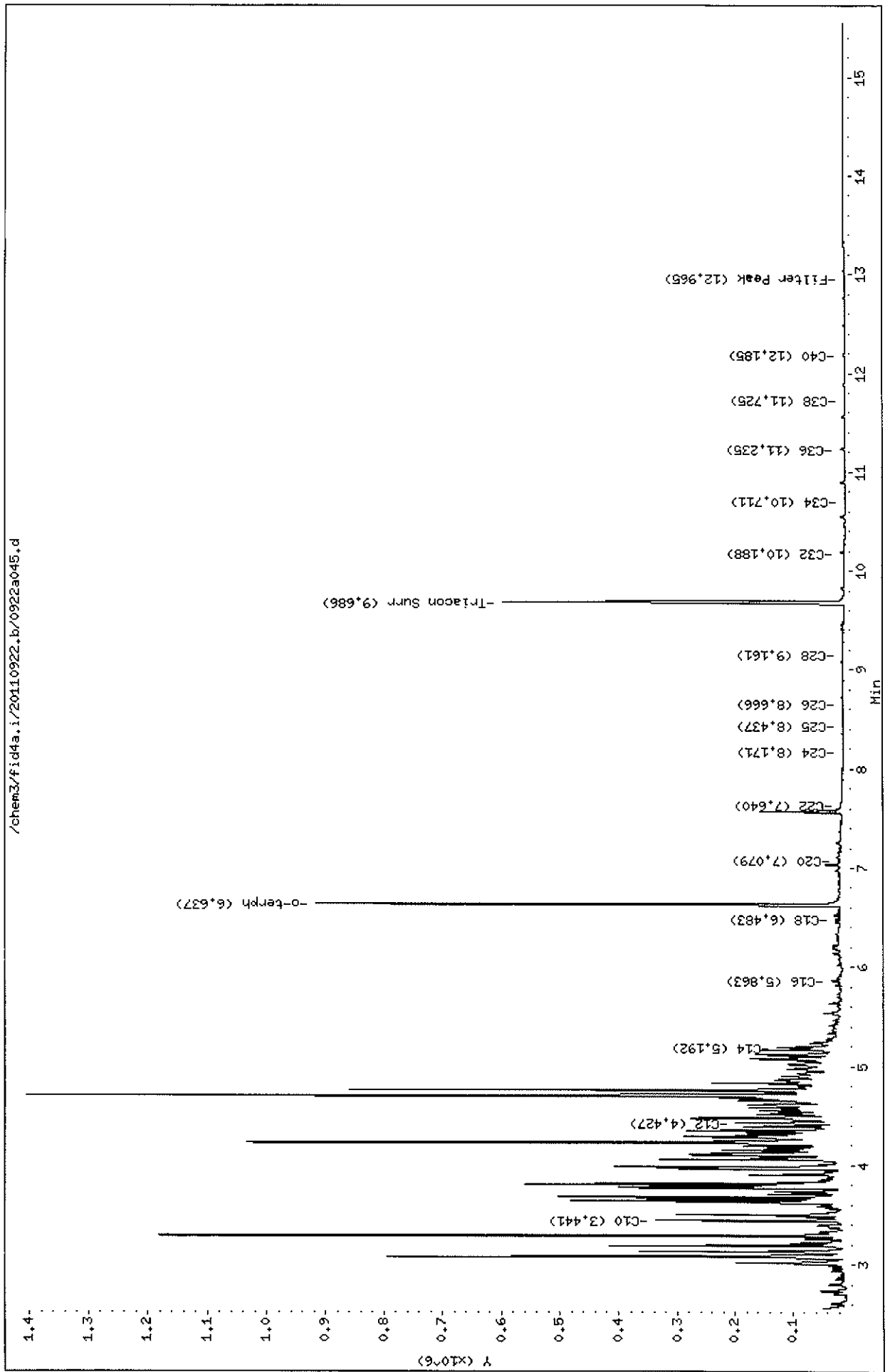
Sample Info: TM62S

Instrument: fid4a.i

Operator: MS

Column diameter: 0.25

Column phase: RTX-1



CLEANED TPHD SURROGATE RECOVERY SUMMARY

Matrix: Soil

QC Report No: TM62-Kennedy Jenks Consultants
Project: Ecology Cornet Bay

<u>Client ID</u>	<u>OTER</u>	<u>TOT OUT</u>
KJ-B1-4	80.4%	0
KJ-B2-12	86.6%	0
KJ-B3-9	87.2%	0
KJ-B4-6	81.0%	0
KJ-B5-4	77.6%	0
KJ-B6-7	86.4%	0
KJ-B7-13	81.6%	0
KJ-B8-14	87.4%	0
KJ-B9-13	82.9%	0
KJ-B10-8	78.5%	0
KJ-B11-5	84.4%	0
KJ-B12-6	86.0%	0
KJ-B13-4	83.1%	0
MB-092111	86.1%	0
LCS-092111	87.0%	0
KJ-B14-3	87.3%	0
KJ-B14-3 MS	91.0%	0
KJ-B14-3 MSD	83.9%	0
KJ-B15-4	85.5%	0
KJ-B16-4	84.6%	0
KJ-B17-4	89.1%	0
KJ-B18-4	83.8%	0
KJ-B19-5	88.4%	0
KJ-B7-8	87.3%	0

LCS/MB LIMITS QC LIMITS

(OTER) = o-Terphenyl

(50-150)

(50-150)

Prep Method: SW3546
Log Number Range: 11-20219 to 11-20238

ORGANICS ANALYSIS DATA SHEET
NWTPHD by GC/FID-Silica and Acid Cleaned
 Page 1 of 1

Sample ID: KJ-B14-3
MS/MSD

Lab Sample ID: TM62N
 LIMS ID: 11-20232
 Matrix: Soil
 Data Release Authorized: *AS*
 Reported: 09/23/11

QC Report No: TM62-Kennedy Jenks Consultants
 Project: Ecology Cornet Bay

Date Sampled: 09/13/11
 Date Received: 09/16/11

Date Extracted MS/MSD: 09/21/11

Sample Amount MS: 9.83 g-dry-wt
 MSD: 9.86 g-dry-wt

Date Analyzed MS: 09/23/11 02:22
 MSD: 09/23/11 02:45

Final Extract Volume MS: 1.0 mL
 MSD: 1.0 mL

Instrument/Analyst MS: FID/AAR
 MSD: FID/AAR

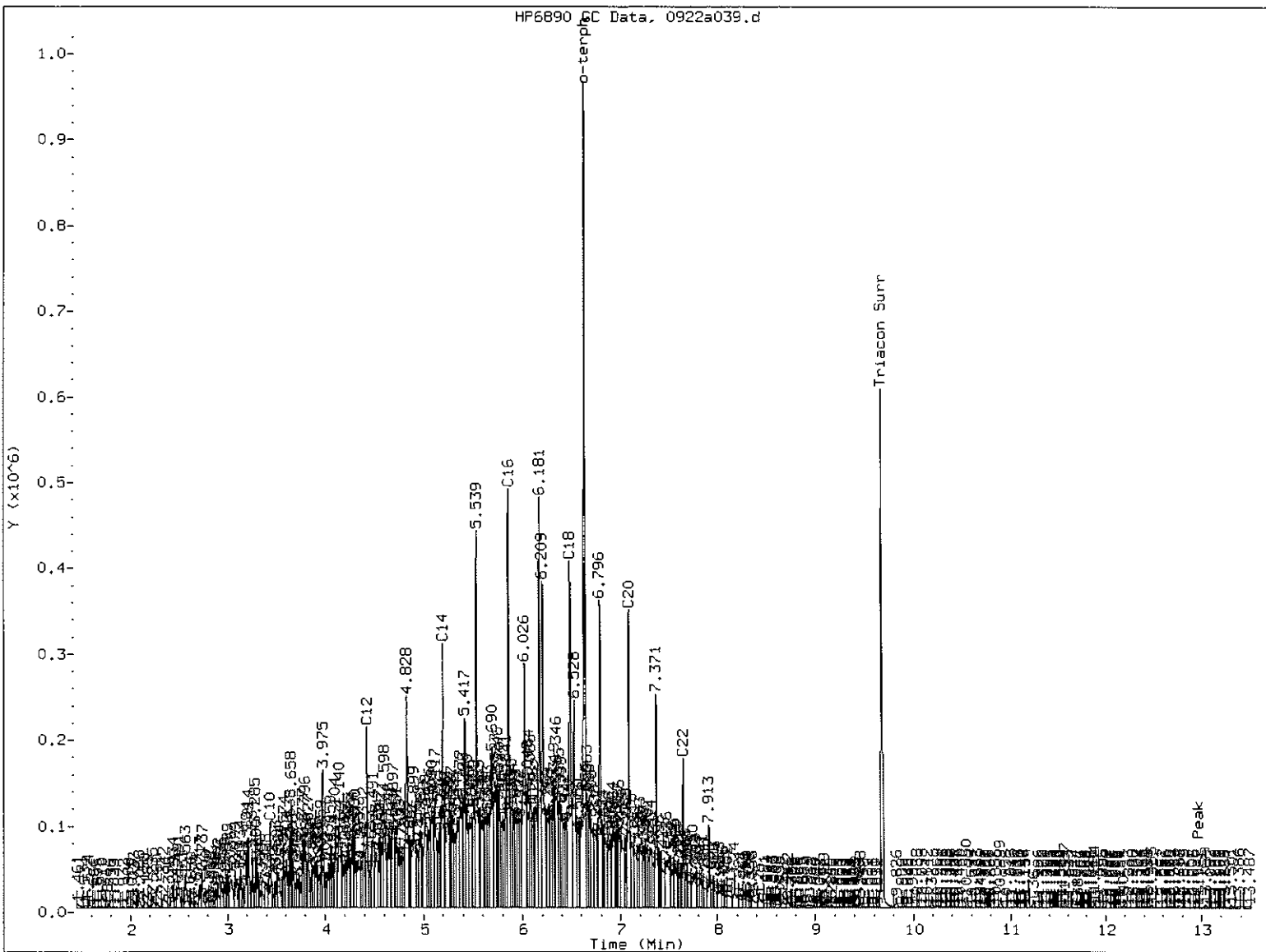
Dilution Factor MS: 1.0
 MSD: 1.0
 Percent Moisture: 3.2%

Range	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Diesel	12.6	143	153	85.2%	134	152	79.9%	6.5%

TPHD Surrogate Recovery

	MS	MSD
o-Terphenyl	91.0%	83.9%

Results reported in mg/kg
 RPD calculated using sample concentrations per SW846.



MANUAL INTEGRATION

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

5. Other Surr pk overlap

Analyst: AR

Date: 9/29/2011

Data File: /chem3/fid4a.i/20110922.b/0922a039.d

Date : 23-SEP-2011 02:22

Client ID: KJ-B14-3 MS

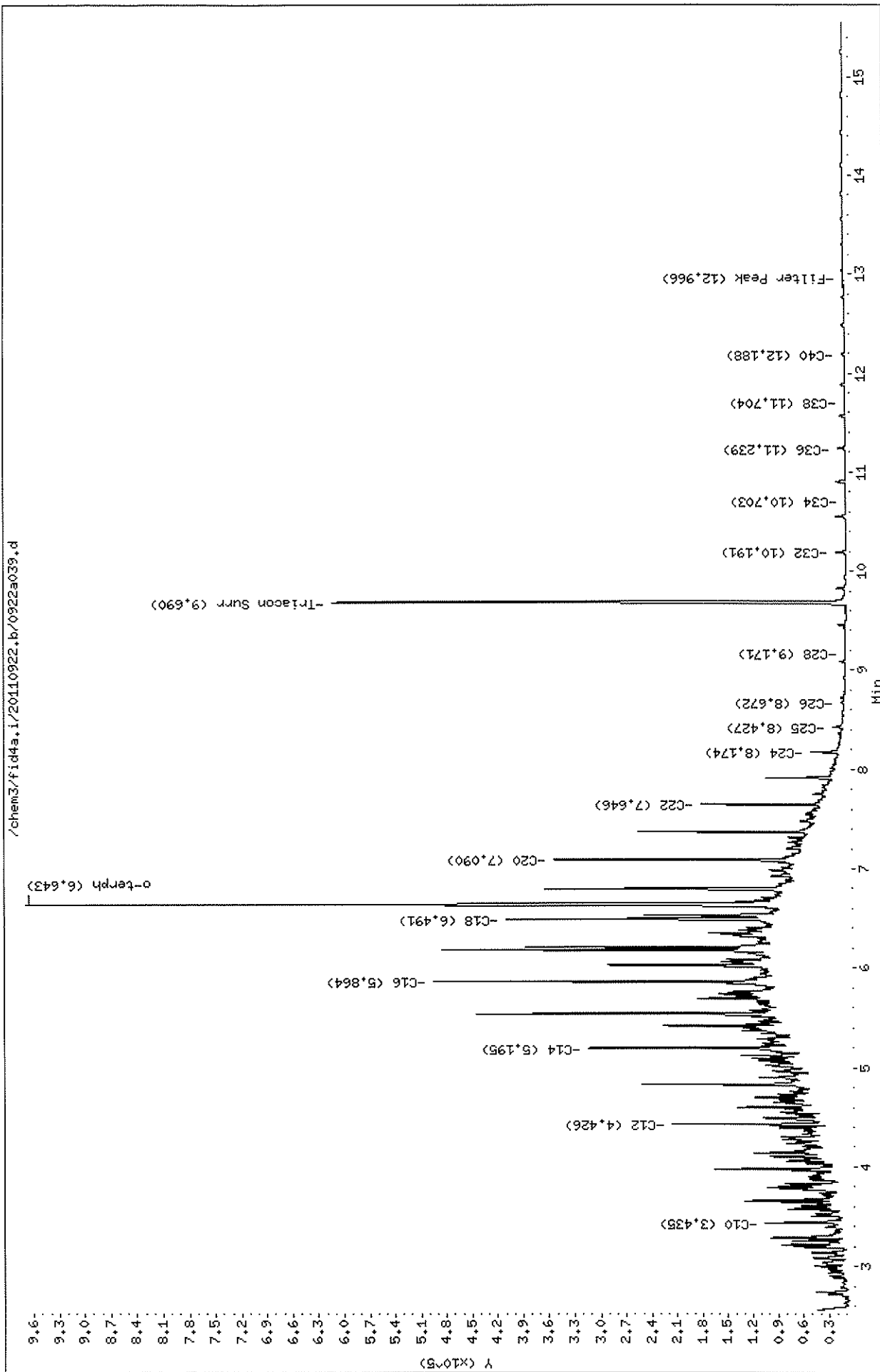
Sample Info: Th62NHS

Instrument: fid4a.i

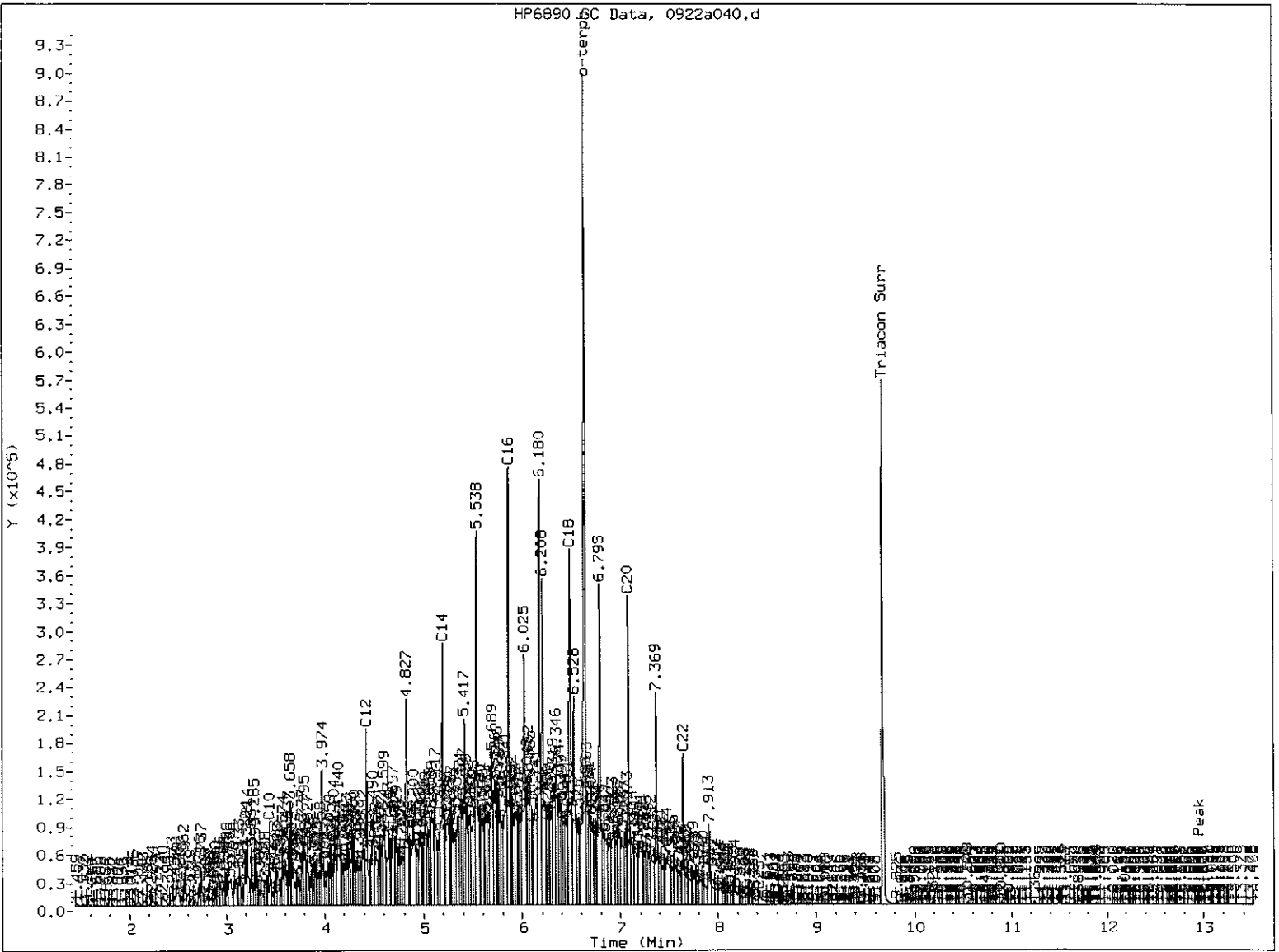
Operator: MS

Column diameter: 0.25

Column phase: RTX-1



070909 : 20110922



Data File: /chem3/fid4a.i/20110922.b/0922a040.d

Date : 23-SEP-2011 02:45

Client ID: KJ-B14-3 MSD

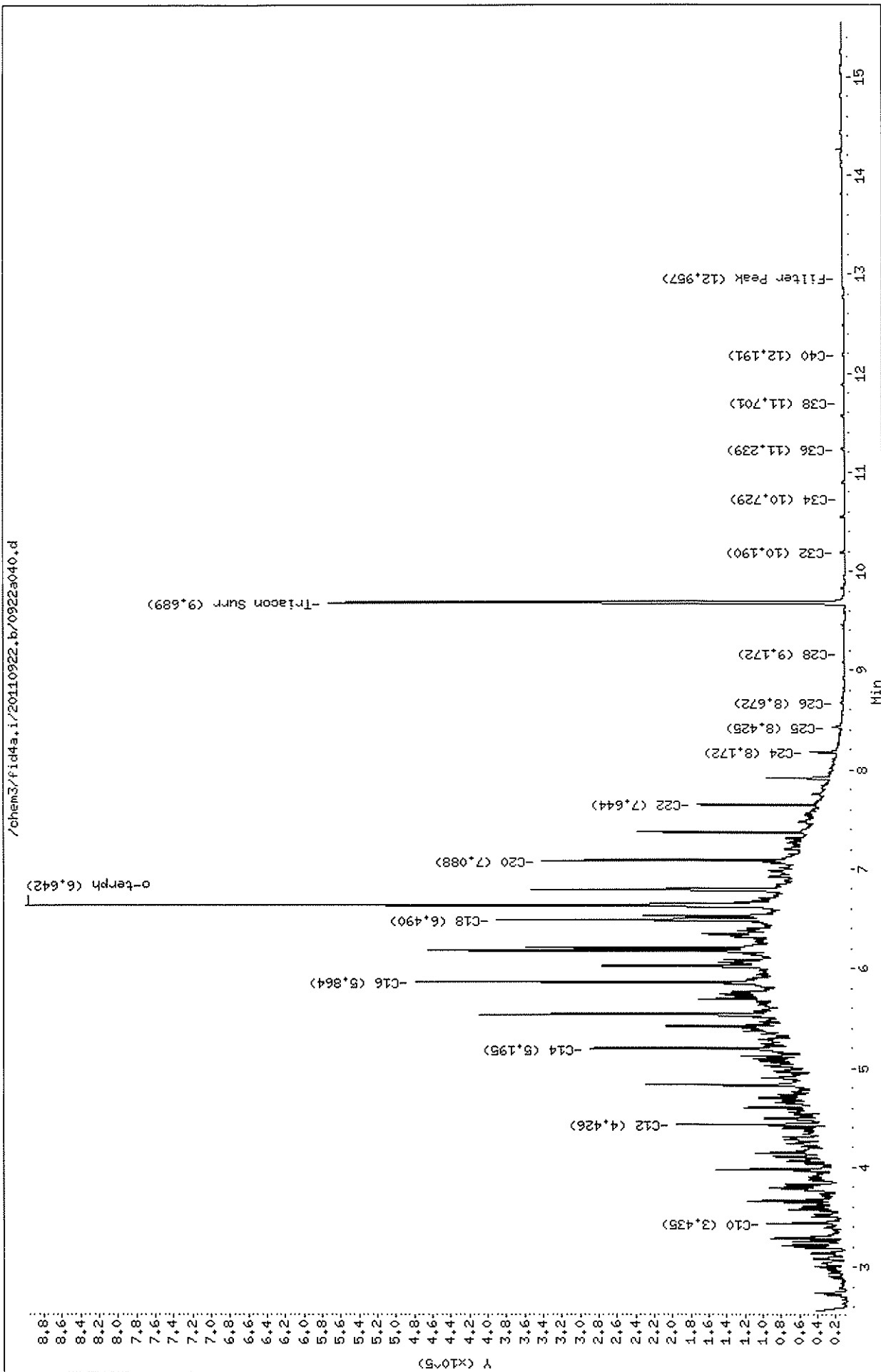
Sample Info: TM62NHSD

Instrument: fid4a.i

Operator: MS

Column diameter: 0.25

Column phase: RTX-1



ORGANICS ANALYSIS DATA SHEET

NWTPHD by GC/FID-Silica and Acid Cleaned

Page 1 of 1

Sample ID: LCS-092111

LAB CONTROL

Lab Sample ID: LCS-092111

LIMS ID: 11-20232

Matrix: Soil

Data Release Authorized: *AB*

Reported: 09/23/11

QC Report No: TM62-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Date Sampled: 09/13/11

Date Received: 09/16/11

Date Extracted: 09/21/11

Date Analyzed: 09/22/11 19:25

Instrument/Analyst: FID/AAR

Sample Amount: 10.0 g

Final Extract Volume: 1.0 mL

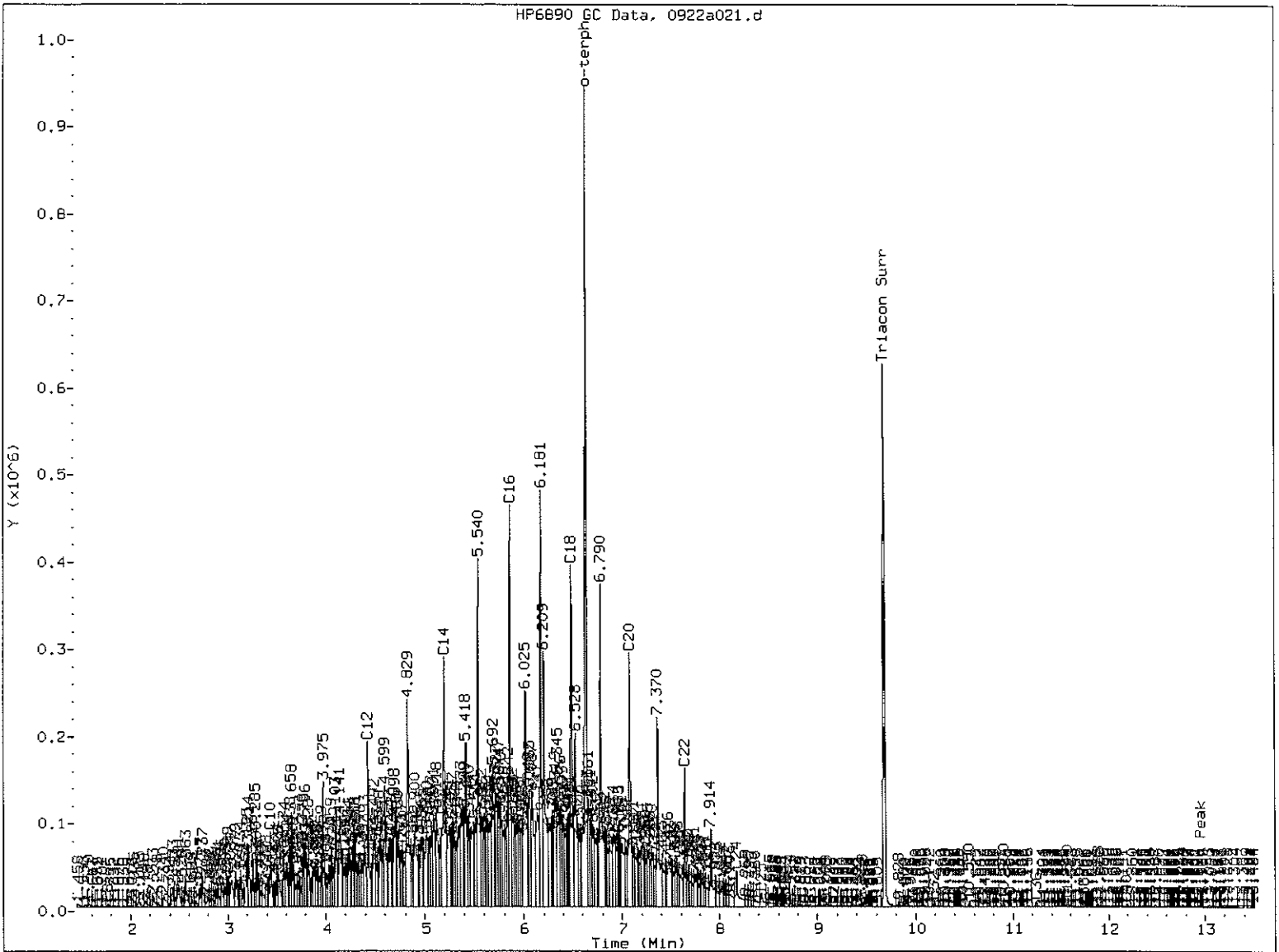
Dilution Factor: 1.0

Range	Lab Control	Spike Added	Recovery
Diesel	127	150	84.7%

TPHD Surrogate Recovery

o-Terphenyl	87.0%
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Results reported in mg/kg



MANUAL INTEGRATION

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

5. Other Surr pk overlap

Analyst: AR

Date: 9/23/2014

Data File: /chem3/fid4a.i/20110922_b/0922a021.d

Date : 22-SEP-2011 19:25

Client ID: TM62LCSS1

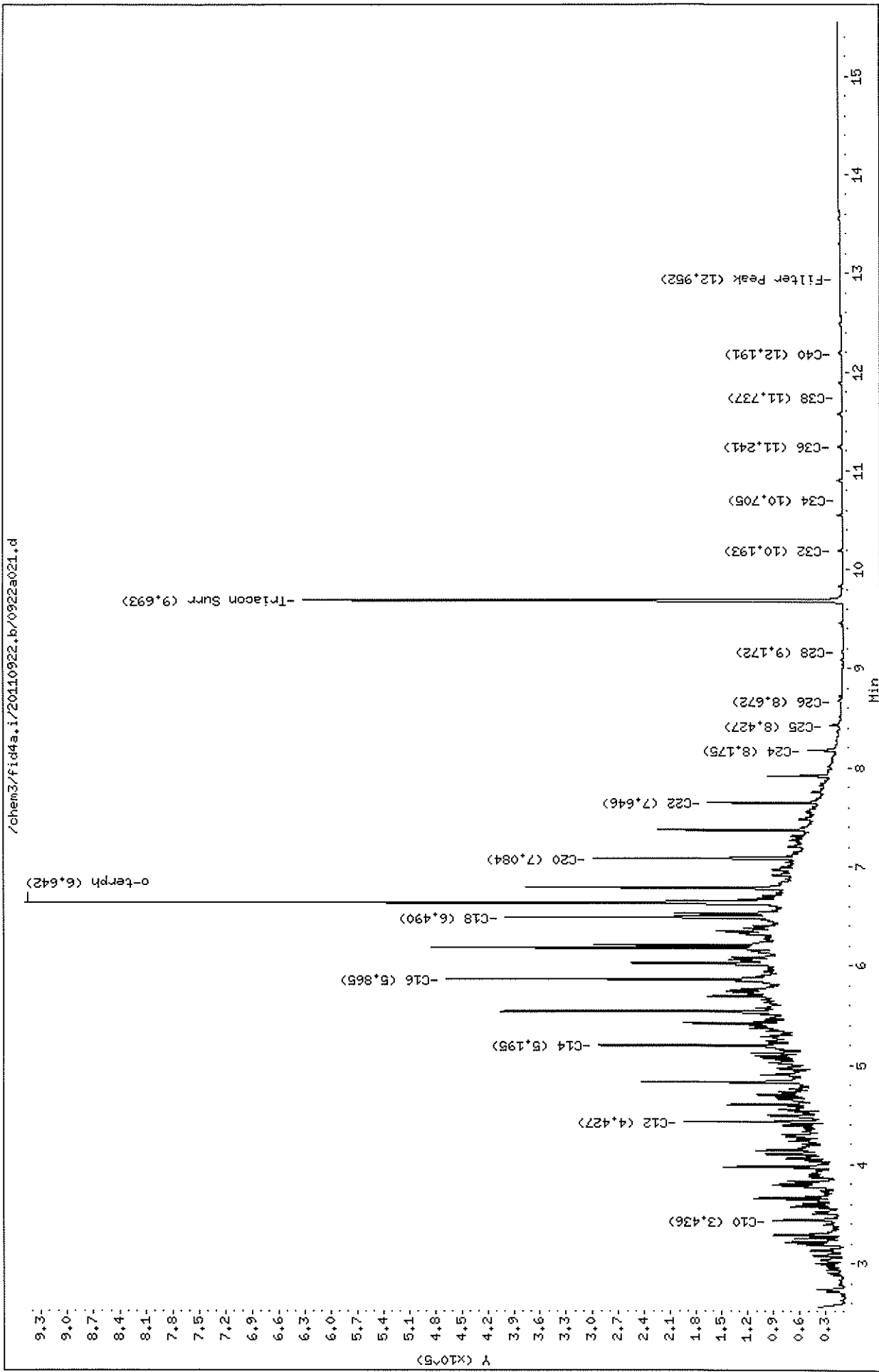
Sample Info: TM62LCSS1

Instrument: fid4a.i

Operator: MS

Column diameter: 0.25

Column phase: RTX-1



ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: MB-092211

METHOD BLANK

Lab Sample ID: MB-092211

LIMS ID: 11-20219

Matrix: Soil

Data Release Authorized: *WJ*

Reported: 09/29/11

QC Report No: TM62-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Event: NA

Date Sampled: NA

Date Received: NA

Date Analyzed: 09/22/11 07:41

Instrument/Analyst: PID3/MH

Purge Volume: 5.0 mL

Sample Amount: 100 mg-dry-wt

CAS Number	Analyte	RL	Result
71-43-2	Benzene	12	< 12 U
108-88-3	Toluene	12	< 12 U
100-41-4	Ethylbenzene	12	< 12 U
179601-23-1	m, p-Xylene	25	< 25 U
95-47-6	o-Xylene	12	< 12 U

Gasoline Range Hydrocarbons	5.0	< 5.0 U	GAS ID ---
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BETX Surrogate Recovery

Trifluorotoluene	90.1%
Bromobenzene	87.6%

Gasoline Surrogate Recovery

Trifluorotoluene	94.6%
Bromobenzene	93.7%

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Data File: /chem3/pid3.i/20110922-2.b/0922a006.d

Date : 22-SEP-2011 07:41

Client ID:

Sample Info: NB0922

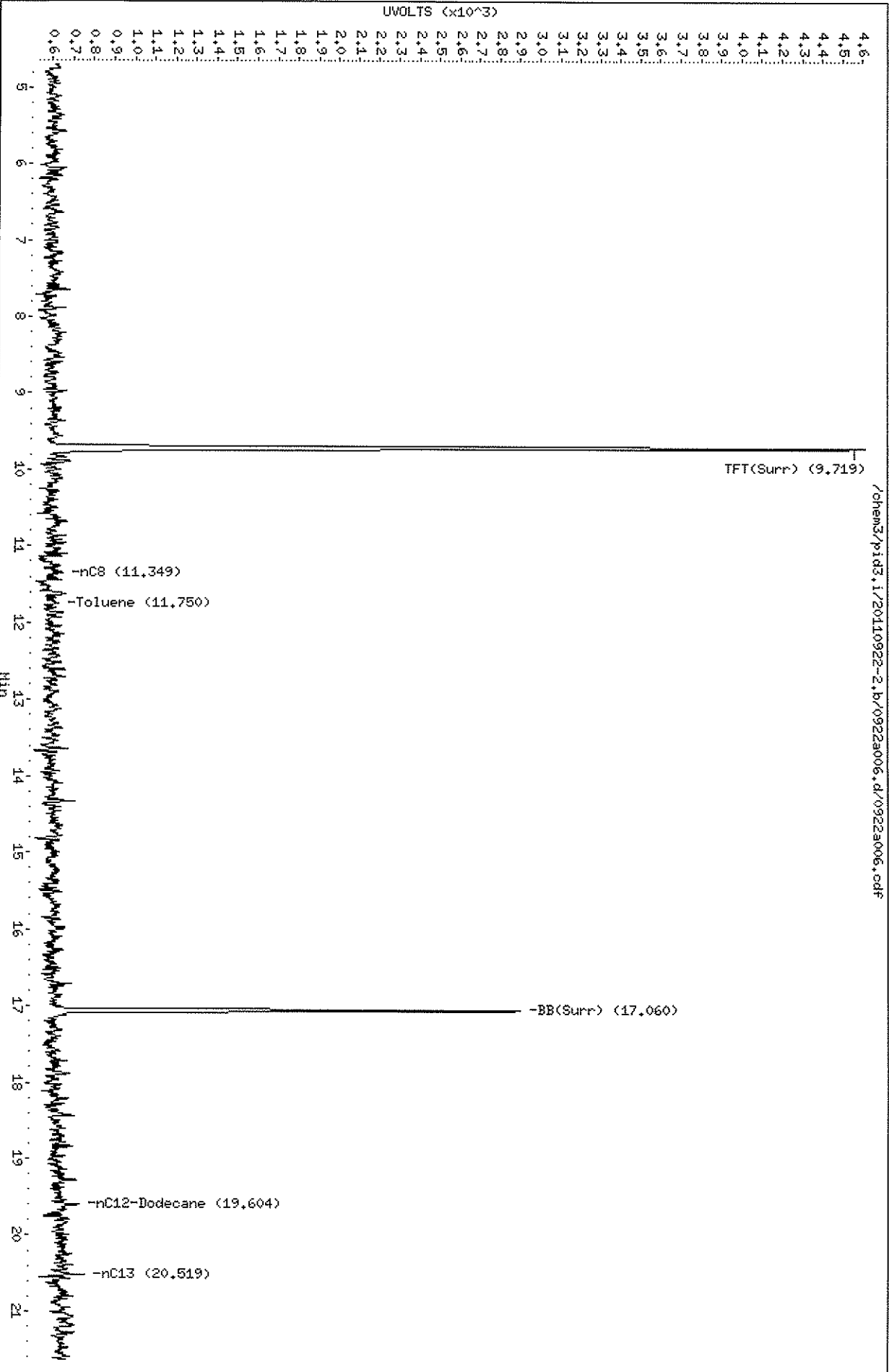
Column phase: RTX 502-2 FID

Instrument: pid3.i

Operator: HH

Column diameter: 0.18

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0922a006

ORGANICS ANALYSIS DATA SHEET
 BETX by Method SW8021BMod
 TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: KJ-B1-4
 SAMPLE



Lab Sample ID: TM62A
 LIMS ID: 11-20219
 Matrix: Soil
 Data Release Authorized: *MW*
 Reported: 09/29/11

QC Report No: TM62-Kennedy Jenks Consultants
 Project: Ecology Cornet Bay
 Event: NA
 Date Sampled: 09/12/11
 Date Received: 09/16/11

Date Analyzed: 09/22/11 09:25
 Instrument/Analyst: PID3/MH

Purge Volume: 5.0 mL
 Sample Amount: 44 mg-dry-wt
 Percent Moisture: 24.5%

CAS Number	Analyte	RL	Result
71-43-2	Benzene	29	< 29 U
108-88-3	Toluene	29	< 29 U
100-41-4	Ethylbenzene	29	< 29 U
179601-23-1	m, p-Xylene	58	< 58 U
95-47-6	o-Xylene	29	43

Gasoline Range Hydrocarbons 12 < 12 U GAS ID ---

BETX Surrogate Recovery

Trifluorotoluene	94.2%
Bromobenzene	98.1%

Gasoline Surrogate Recovery

Trifluorotoluene	98.2%
Bromobenzene	101%

BETX values reported in µg/kg (ppb)
 Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.
 Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.
 Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

Data File: /chem3/pid3.i/20110922-2.b/0922a009.d

Date : 22-SEP-2011 09:25

Client ID: KJ-B1-4

Sample Info: TM62A

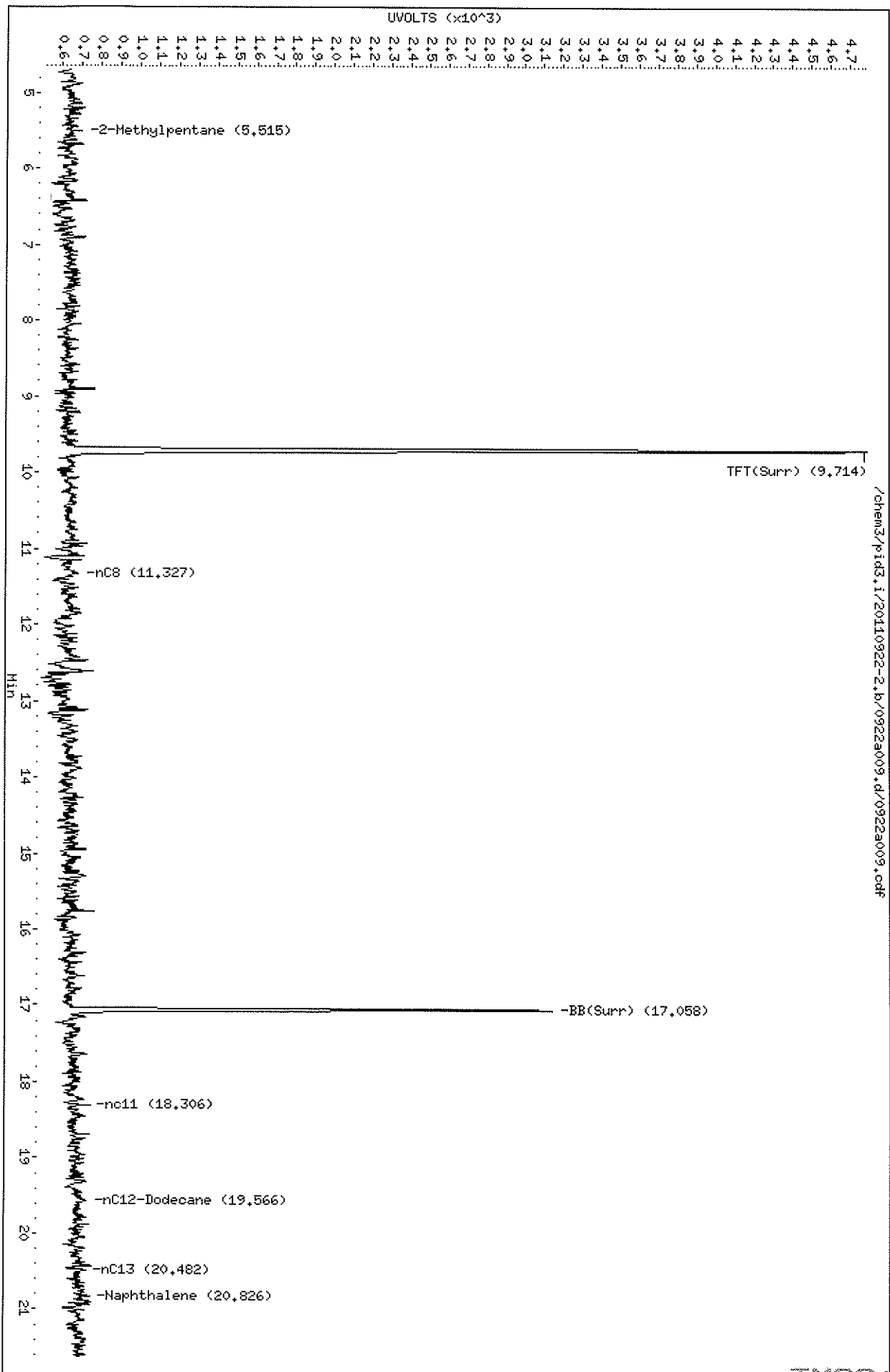
Column phase: RTX 502-2 FID

Instrument: pid3.i

Operator: MH

Column diameter: 0.18

Page 1



Data File: /chem3/pid3.i/20110922-1.b/0922a009.d

Date: 22-SEP-2011 09:25

Client ID: KJ-B1-4

Sample Infol: TH62A

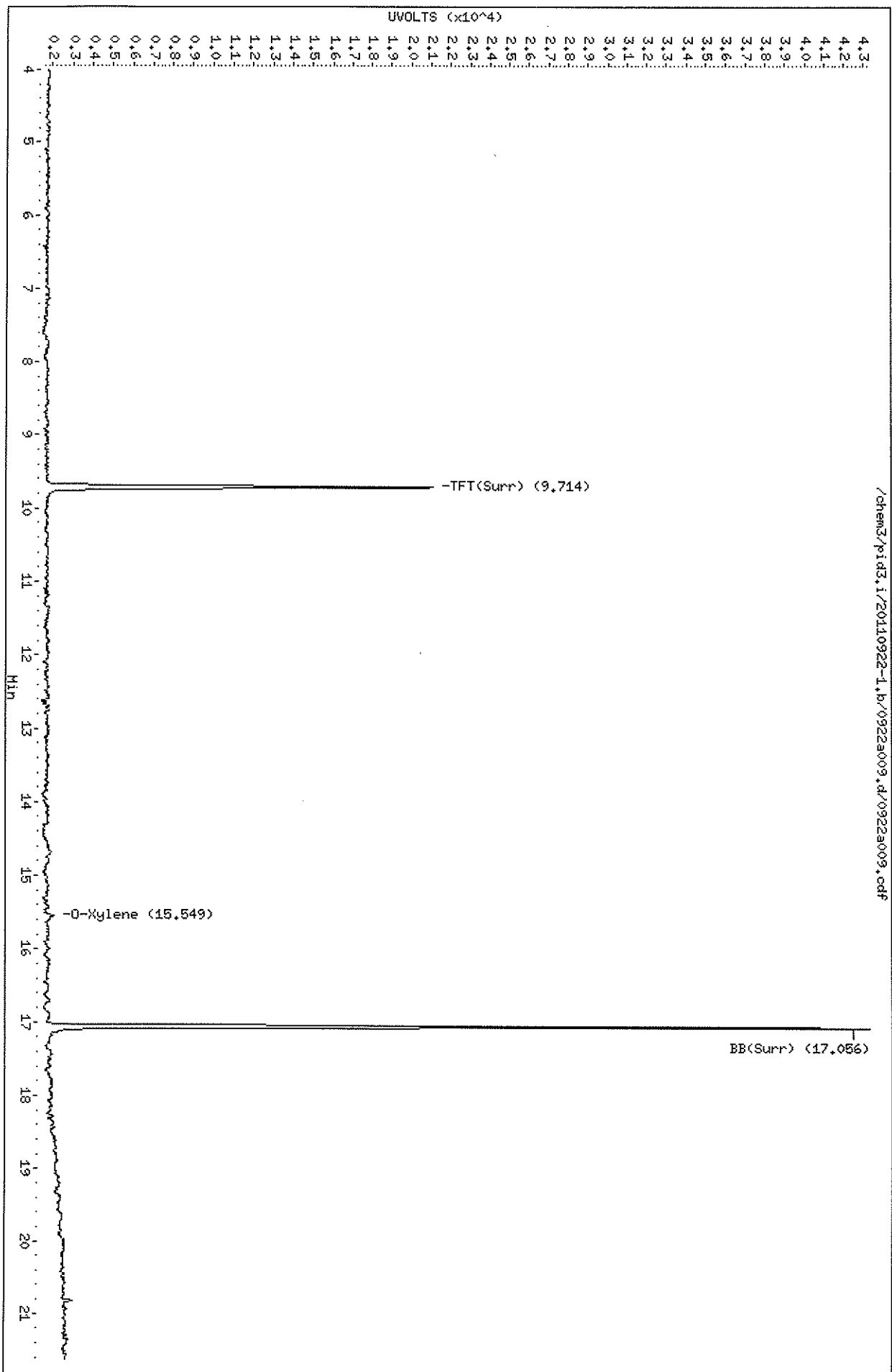
Column phase: RTX 502-2 PID

Instrument: pid3.i

Operator: HH

Column diameter: 0.18

Page 1



TH62A 0922A

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: KJ-B2-12

SAMPLE

Lab Sample ID: TM62B

LIMS ID: 11-20220

Matrix: Soil

Data Release Authorized: *MMW*

Reported: 09/29/11

QC Report No: TM62-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Event: NA

Date Sampled: 09/12/11

Date Received: 09/16/11

Date Analyzed: 09/22/11 09:53

Instrument/Analyst: PID3/MH

Purge Volume: 5.0 mL

Sample Amount: 73 mg-dry-wt

Percent Moisture: 18.2%

CAS Number	Analyte	RL	Result
71-43-2	Benzene	17	600
108-88-3	Toluene	17	< 17 U
100-41-4	Ethylbenzene	17	25
179601-23-1	m,p-Xylene	34	< 34 U
95-47-6	o-Xylene	17	46

Gasoline Range Hydrocarbons	6.9	< 6.9 U	GAS ID ---
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BETX Surrogate Recovery

Trifluorotoluene	99.5%
Bromobenzene	96.8%

Gasoline Surrogate Recovery

Trifluorotoluene	103%
Bromobenzene	101%

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

Data File: /chem3/pid3.i/20110922-1.b/0922a010.d

Date: 22-SEP-2011 09:53

Client ID: KJ-B2-12

Sample Info: TH628

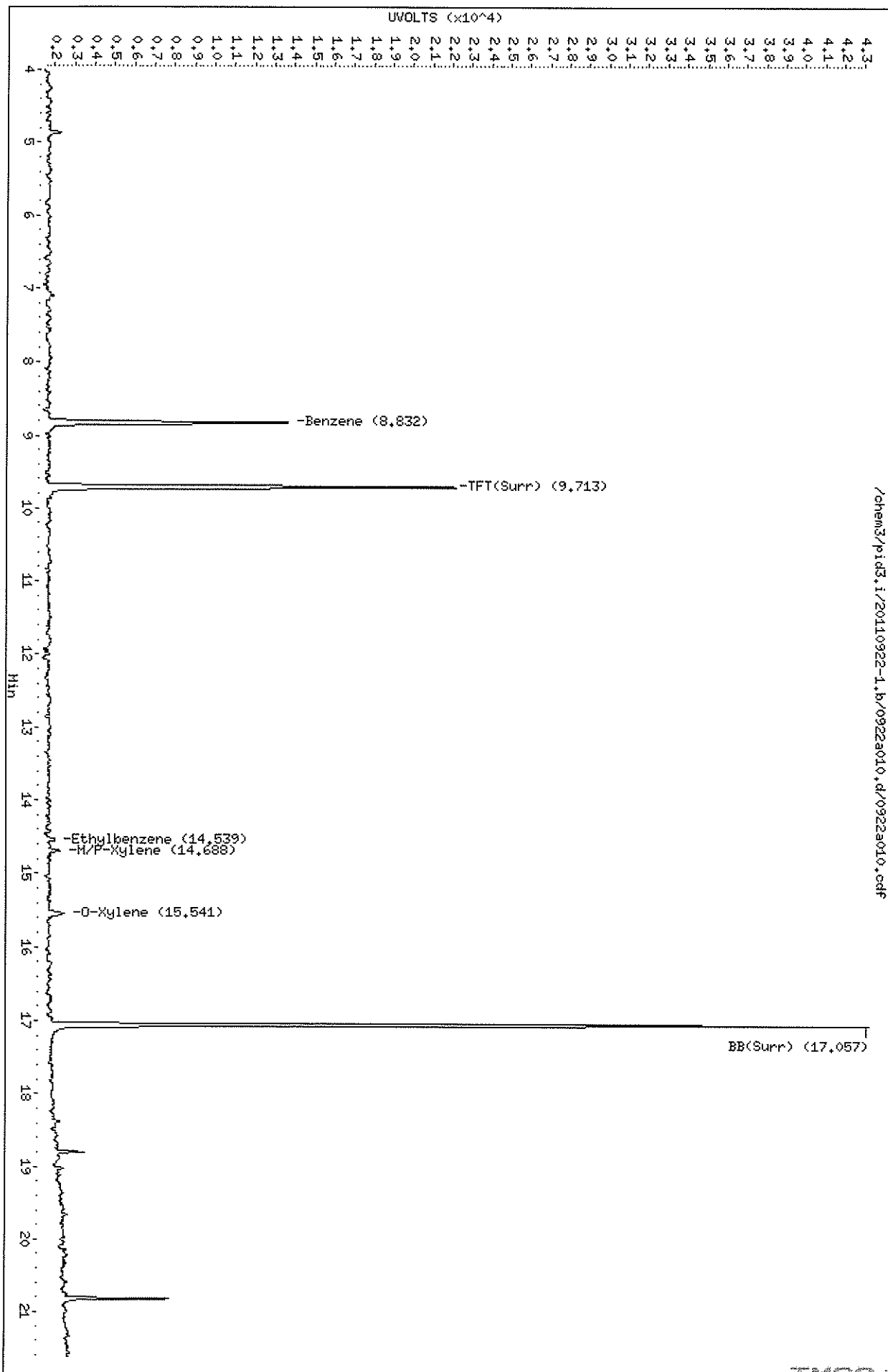
Column phase: RTX 502-2 PID

Instrument: pid3.i

Operator: HH

Column diameter: 0.18

/chem3/pid3.i/20110922-1.b/0922a010.d/0922a010.cdf



ORGANICS ANALYSIS DATA SHEET
 BETX by Method SW8021BMod
 TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: KJ-B3-9
 SAMPLE



Lab Sample ID: TM62C
 LIMS ID: 11-20221
 Matrix: Soil
 Data Release Authorized: *MW*
 Reported: 09/29/11

QC Report No: TM62-Kennedy Jenks Consultants
 Project: Ecology Cornet Bay
 Event: NA
 Date Sampled: 09/12/11
 Date Received: 09/16/11

Date Analyzed: 09/22/11 10:19
 Instrument/Analyst: PID3/MH

Purge Volume: 5.0 mL
 Sample Amount: 71 mg-dry-wt
 Percent Moisture: 19.4%

CAS Number	Analyte	RL	Result	
71-43-2	Benzene	18	1,300	
108-88-3	Toluene	18	< 18 U	
100-41-4	Ethylbenzene	18	79	
179601-23-1	m,p-Xylene	35	81	
95-47-6	o-Xylene	18	< 18 U	
	Gasoline Range Hydrocarbons	7.0	< 7.0 U	GAS ID ---
BETX Surrogate Recovery				
	Trifluorotoluene	99.3%		
	Bromobenzene	98.3%		
Gasoline Surrogate Recovery				
	Trifluorotoluene	102%		
	Bromobenzene	103%		

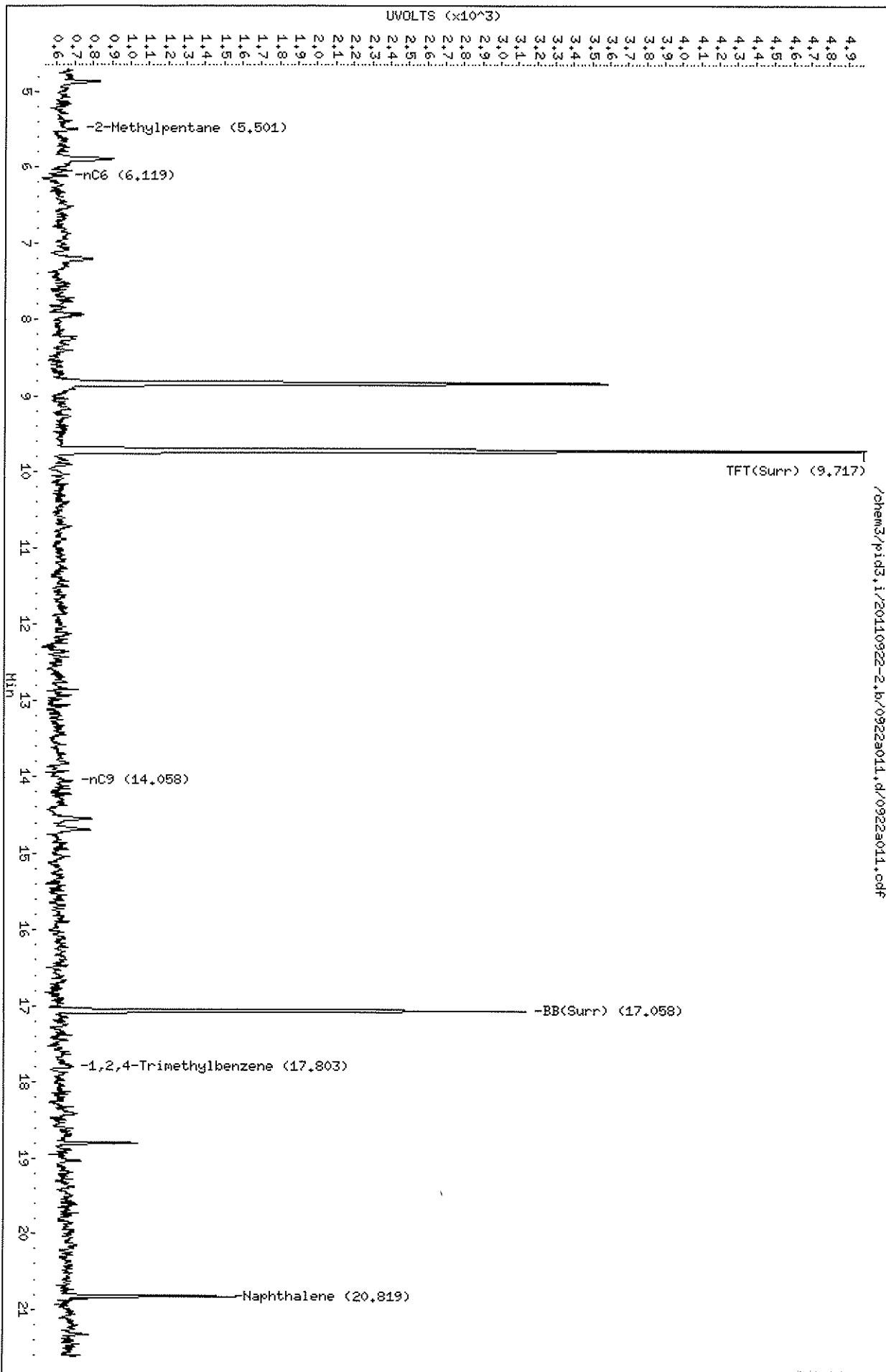
BETX values reported in µg/kg (ppb)
 Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.
 Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.
 Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

Data File: /chem3/pid3.i/20110922-2.b/09222011.d
Date: 22-SEP-2011 10:19
Client ID: KJ-B3-9
Sample Info: TH62C

Column phase: RTX 502-2 FID

Instrument: pid3.i
Operator: NH
Column diameter: 0.18



09222011

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: KJ-B4-6

SAMPLE

Lab Sample ID: TM62D

LIMS ID: 11-20222

Matrix: Soil

Data Release Authorized: *TMW*

Reported: 09/29/11

QC Report No: TM62-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Event: NA

Date Sampled: 09/12/11

Date Received: 09/16/11

Date Analyzed: 09/22/11 10:45

Instrument/Analyst: PID3/MH

Purge Volume: 5.0 mL

Sample Amount: 85 mg-dry-wt

Percent Moisture: 15.5%

CAS Number	Analyte	RL	Result
71-43-2	Benzene	15	< 15 U
108-88-3	Toluene	15	< 15 U
100-41-4	Ethylbenzene	15	< 15 U
179601-23-1	m,p-Xylene	29	< 29 U
95-47-6	o-Xylene	15	18

Gasoline Range Hydrocarbons	5.9	< 5.9 U	GAS ID ---
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BETX Surrogate Recovery

Trifluorotoluene	98.0%
Bromobenzene	97.5%

Gasoline Surrogate Recovery

Trifluorotoluene	102%
Bromobenzene	99.8%

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

Data File: /chem3/pid3,1/20110922-1.b/0922a012.d

Date : 22-SEP-2011 10:45

Client ID: KJ-B4-6

Sample Info: TM62D

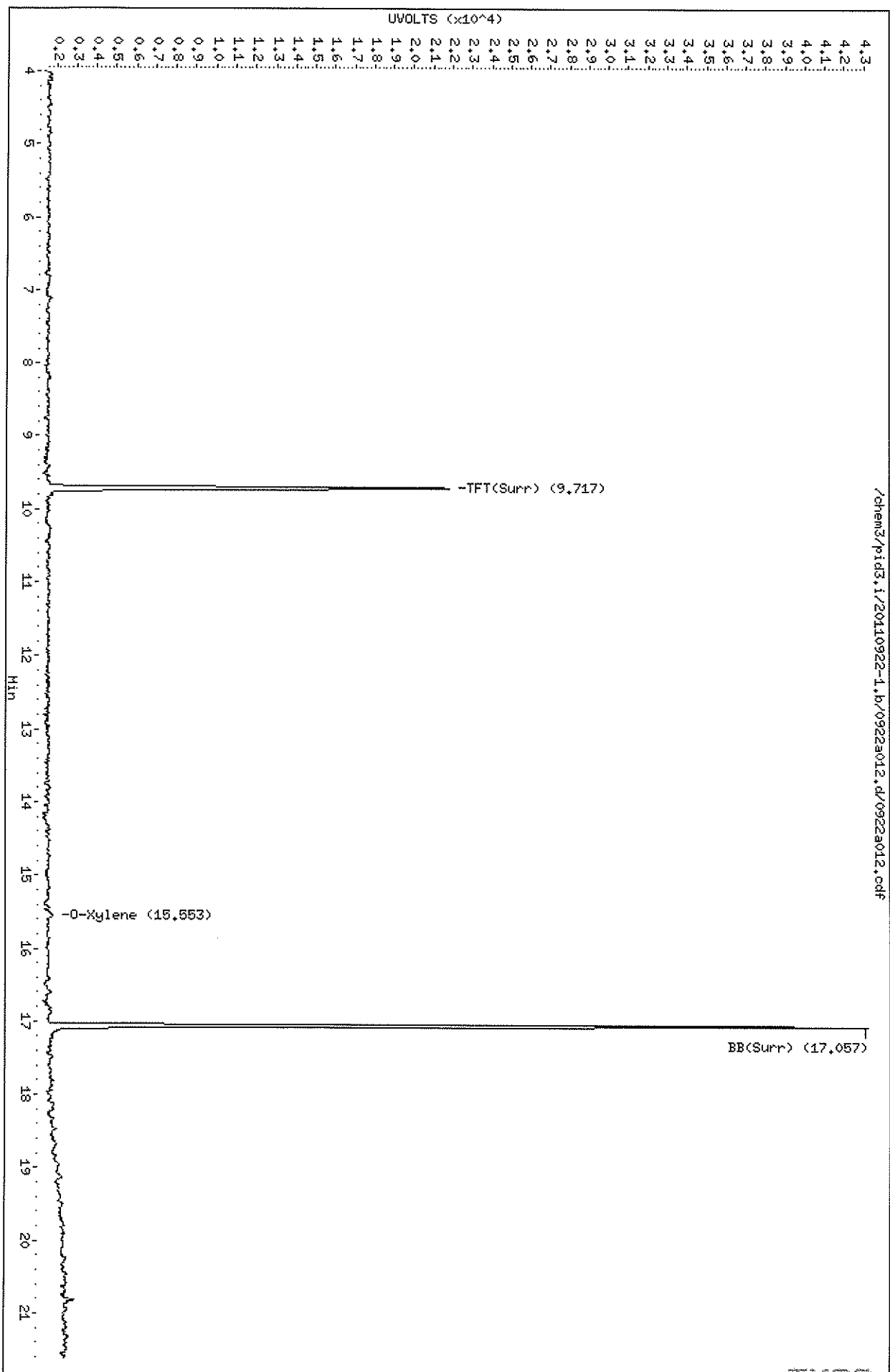
Column phase: RTX 502-2 PID

Instrument: pid3,1

Operator: HH

Column diameter: 0.18

Page 1



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ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: KJ-B5-4

SAMPLE



Lab Sample ID: TM62E

LIMS ID: 11-20223

Matrix: Soil

Data Release Authorized: *MW*

Reported: 09/29/11

QC Report No: TM62-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Event: NA

Date Sampled: 09/12/11

Date Received: 09/16/11

Date Analyzed: 09/22/11 11:11

Instrument/Analyst: PID3/MH

Purge Volume: 5.0 mL

Sample Amount: 84 mg-dry-wt

Percent Moisture: 17.4%

CAS Number	Analyte	RL	Result
71-43-2	Benzene	15	< 15 U
108-88-3	Toluene	15	< 15 U
100-41-4	Ethylbenzene	15	< 15 U
179601-23-1	m,p-Xylene	30	< 30 U
95-47-6	o-Xylene	15	160

Gasoline Range Hydrocarbons	6.0	< 6.0 U	GAS ID ---
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BETX Surrogate Recovery

Trifluorotoluene	100%
Bromobenzene	97.7%

Gasoline Surrogate Recovery

Trifluorotoluene	104%
Bromobenzene	103%

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

Data File: /chem3/pid3.i/20110922-2.b/0922a013.d

Date : 22-SEP-2011 11:11

Client ID: KJ-B5-4

Sample Info: TH62E

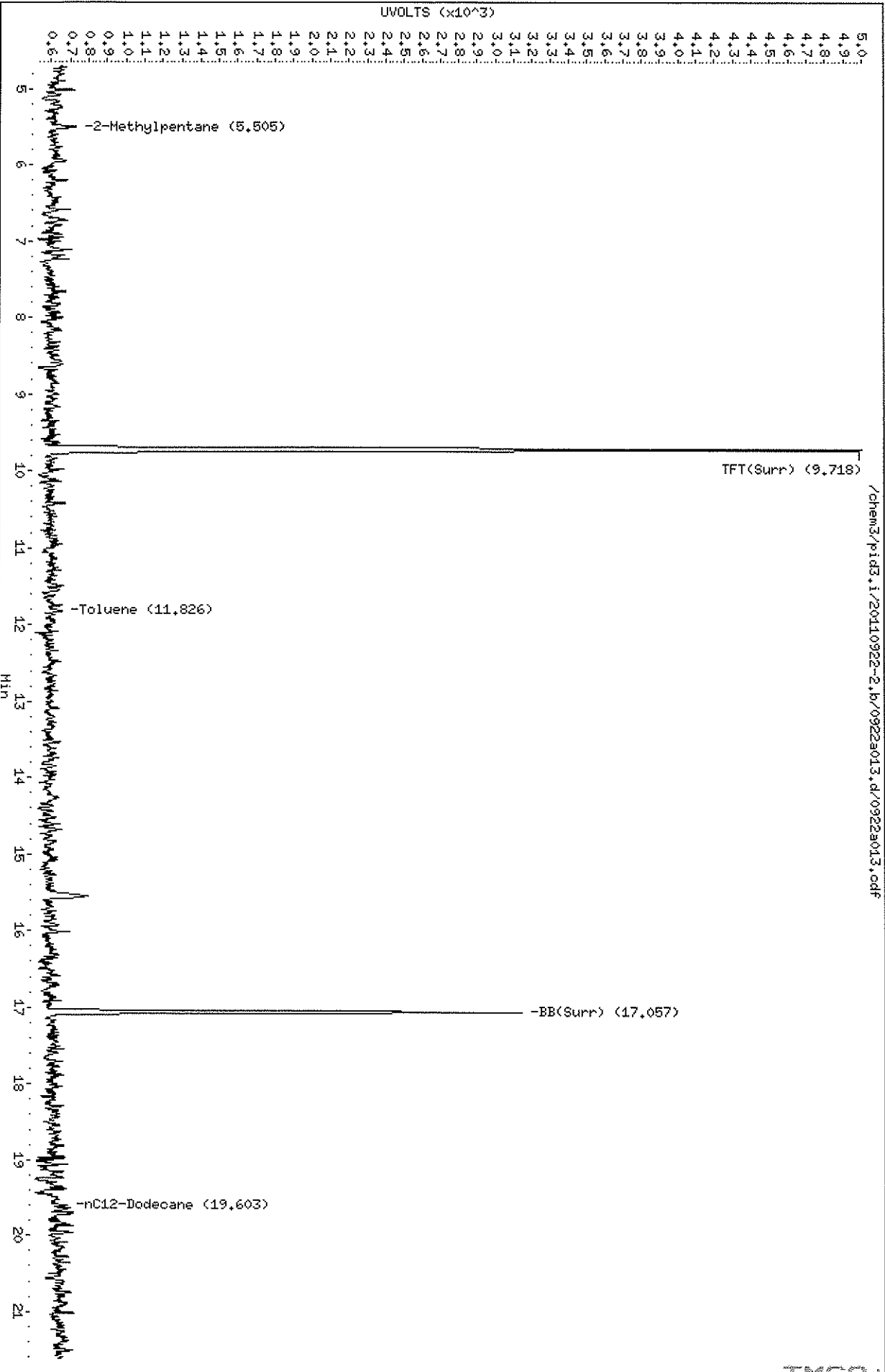
Column phase: RTX 502-2 FID

Instrument: pid3.i

Operator: HH

Column diameter: 0.18

Page 1



Data File: /chem3/pid3.i/20110922-1.b/0922a013.d

Date : 22-SEP-2014 11:11

Client ID: KJ-B5-4

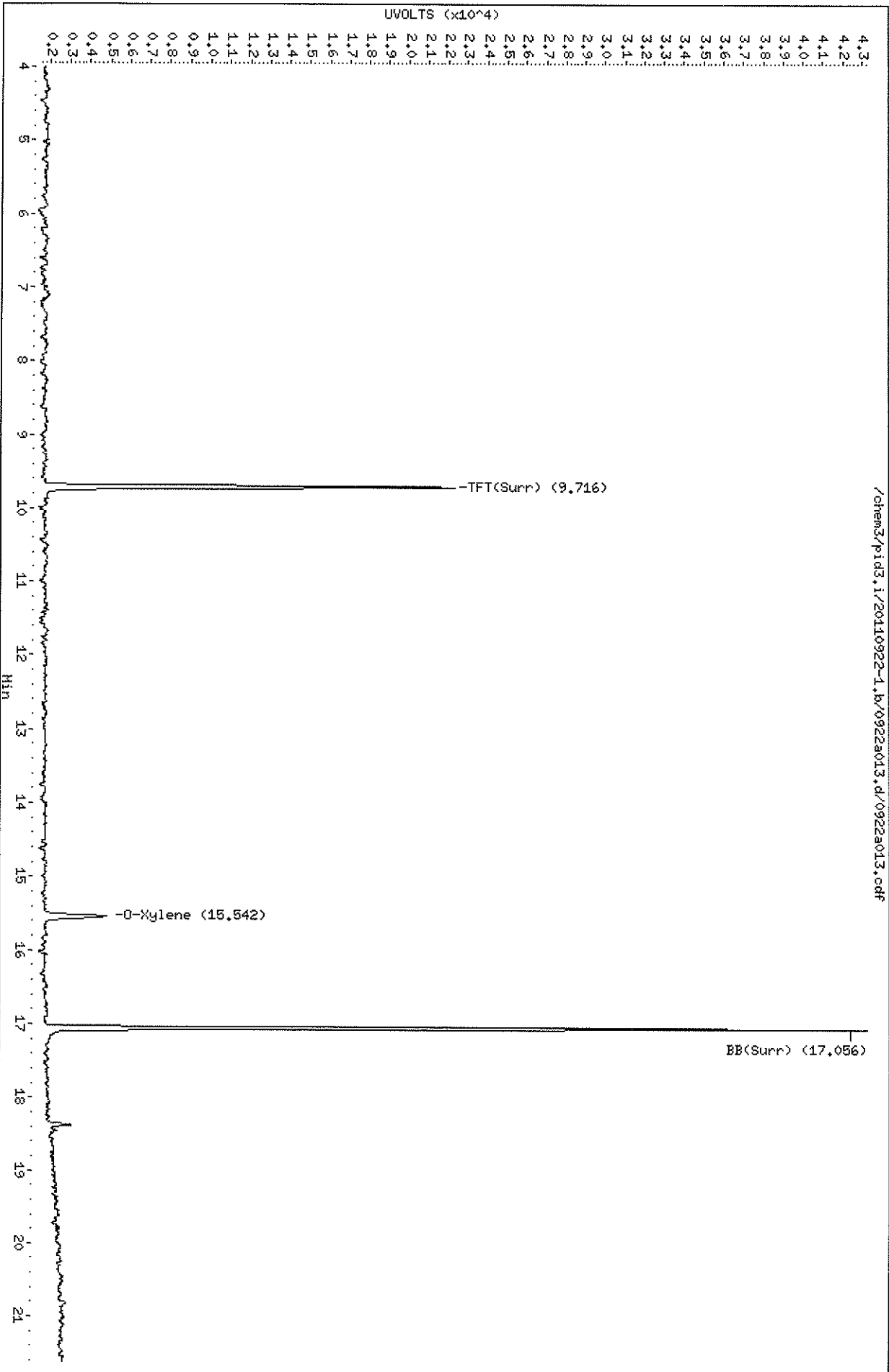
Sample Info: TM62E

Column phase: RTX 502-2 PID

Instrument: pid3.i

Operator: HH

Column diameter: 0.18



/chem3/pid3.i/20110922-1.b/0922a013.d/0922a013.cdf

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ORGANICS ANALYSIS DATA SHEET
 BETX by Method SW8021BMod
 TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: KJ-B6-7
 SAMPLE

Lab Sample ID: TM62F
 LIMS ID: 11-20224
 Matrix: Soil
 Data Release Authorized: *NW*
 Reported: 09/29/11

QC Report No: TM62-Kennedy Jenks Consultants
 Project: Ecology Cornet Bay
 Event: NA
 Date Sampled: 09/12/11
 Date Received: 09/16/11

Date Analyzed: 09/22/11 11:38
 Instrument/Analyst: PID3/MH

Purge Volume: 5.0 mL
 Sample Amount: 84 mg-dry-wt
 Percent Moisture: 14.5%

CAS Number	Analyte	RL	Result
71-43-2	Benzene	15	< 15 U
108-88-3	Toluene	15	< 15 U
100-41-4	Ethylbenzene	15	< 15 U
179601-23-1	m,p-Xylene	30	< 30 U
95-47-6	o-Xylene	15	< 15 U

Gasoline Range Hydrocarbons	5.9	< 5.9 U	GAS ID ---
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BETX Surrogate Recovery

Trifluorotoluene	98.4%
Bromobenzene	95.5%

Gasoline Surrogate Recovery

Trifluorotoluene	100%
Bromobenzene	103%

BETX values reported in µg/kg (ppb)
 Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.
 Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.
 Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

Data File: /chem3/pid3.i/20110922-1.b/0922a014.d

Date: 22-SEP-2011 11:38

Client ID: KJ-B6-7

Sample Info: TH6ZF

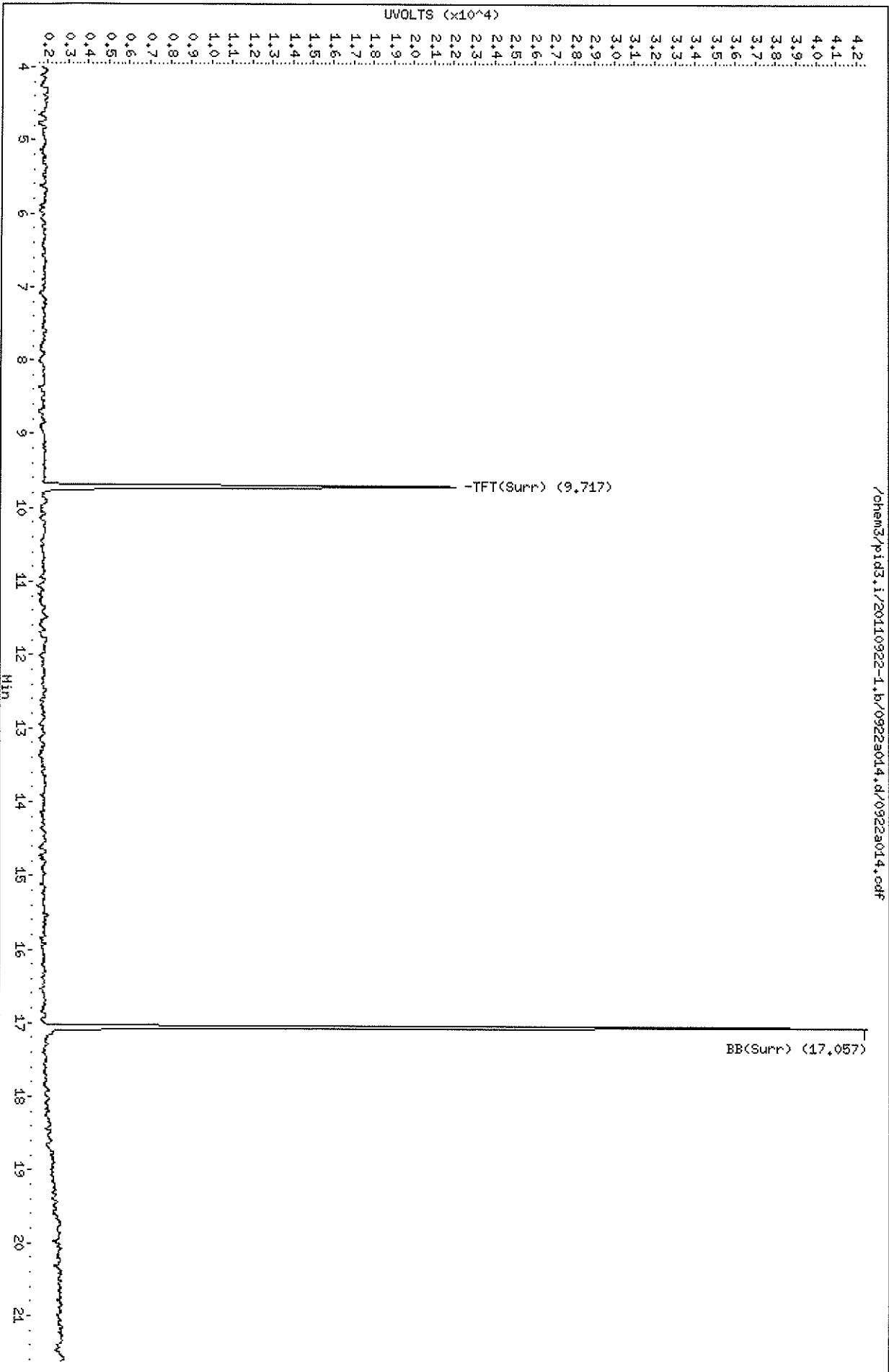
Column phase: RTX 502-2 PID

Instrument: pid3.i

Operator: HH

Column diameter: 0.18


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ORGANICS ANALYSIS DATA SHEET
 BETX by Method SW8021BMod
 TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: KJ-B7-13
 SAMPLE

Lab Sample ID: TM62G
 LIMS ID: 11-20225
 Matrix: Soil
 Data Release Authorized: 
 Reported: 09/29/11

QC Report No: TM62-Kennedy Jenks Consultants
 Project: Ecology Cornet Bay
 Event: NA
 Date Sampled: 09/12/11
 Date Received: 09/16/11

Date Analyzed: 09/22/11 13:22
 Instrument/Analyst: PID3/MH

Purge Volume: 5.0 mL
 Sample Amount: 81 mg-dry-wt
 Percent Moisture: 21.2%

CAS Number	Analyte	RL	Result
71-43-2	Benzene	16	480
108-88-3	Toluene	16	< 16 U
100-41-4	Ethylbenzene	16	25
179601-23-1	m,p-Xylene	31	< 31 U
95-47-6	o-Xylene	16	230

Gasoline Range Hydrocarbons 6.2 10 GAS ID
 GAS/GRO

BETX Surrogate Recovery

Trifluorotoluene	99.1%
Bromobenzene	99.9%

Gasoline Surrogate Recovery

Trifluorotoluene	102%
Bromobenzene	103%

BETX values reported in µg/kg (ppb)
 Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

Data File: /chem3/pid3.i/20110922-2.b/0922a018.d

Date: 22-SEP-2011 13:22

Client ID: KJ-B7-13

Sample Info: TM62G

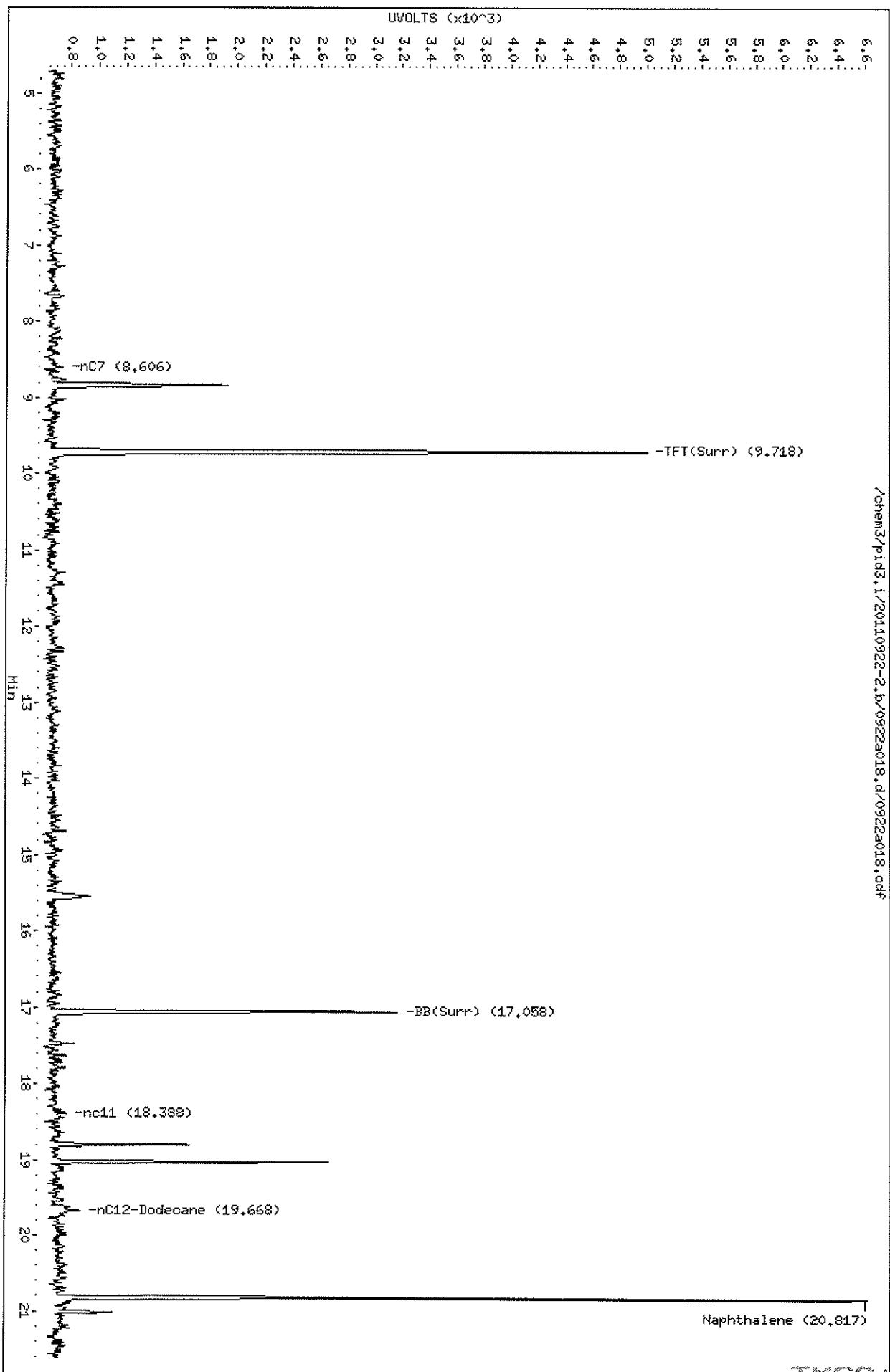
Column phase: RTX 502-2 FID

Instrument: pid3.i

Operator: HH

Column diameter: 0.18

Page 1



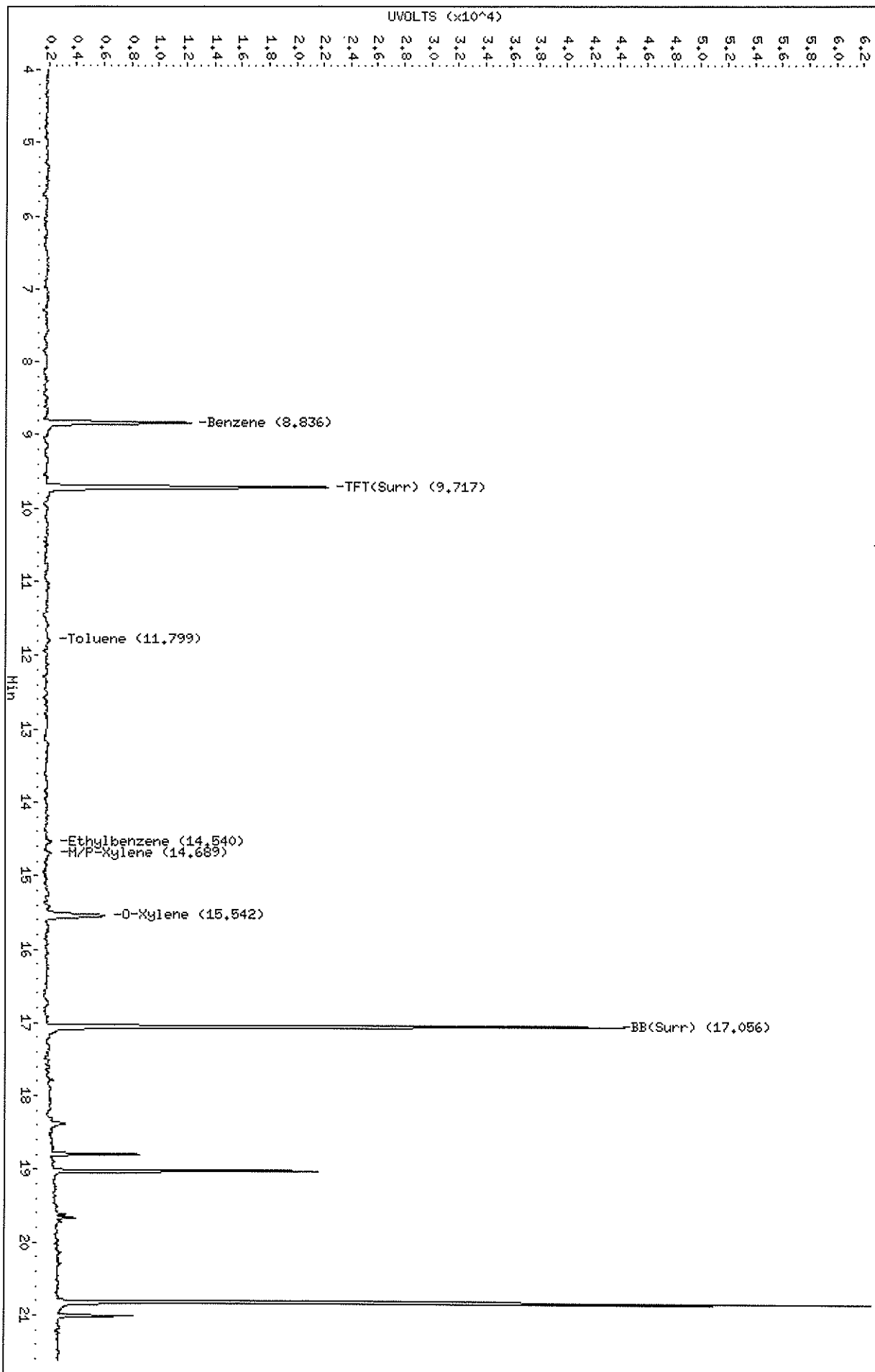
0922a018.d

Data File: /chem3/pid3.i/20110922-1.b/0922a018.d
Date: 22-SEP-2011 13:22
Client ID: KJ-B7-13
Sample Info: TH625

Column phase: RTX 502-2 PID

Instrument: pid3.i
Operator: HH
Column diameter: 0.18

/chem3/pid3.i/20110922-1.b/0922a018.d/0922a018.cdf



ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: KJ-B8-14

SAMPLE

Lab Sample ID: TM62H

LIMS ID: 11-20226

Matrix: Soil

Data Release Authorized: *WVW*

Reported: 09/29/11

QC Report No: TM62-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Event: NA

Date Sampled: 09/12/11

Date Received: 09/16/11

Date Analyzed: 09/22/11 13:49

Instrument/Analyst: PID3/MH

Purge Volume: 5.0 mL

Sample Amount: 80 mg-dry-wt

Percent Moisture: 16.7%

CAS Number	Analyte	RL	Result	
71-43-2	Benzene	16	< 16 U	
108-88-3	Toluene	16	19	
100-41-4	Ethylbenzene	16	< 16 U	
179601-23-1	m,p-Xylene	31	< 31 U	
95-47-6	o-Xylene	16	33	
	Gasoline Range Hydrocarbons	6.2	< 6.2 U	GAS ID ---

BETX Surrogate Recovery

Trifluorotoluene	97.6%
Bromobenzene	96.4%

Gasoline Surrogate Recovery

Trifluorotoluene	102%
Bromobenzene	100%

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

Data File: /chem3/pid3.i/20110922-2.k/0922a019.d

Date : 22-SEP-2011 13:49

Client ID: KJ-B8-14

Sample Info: TM62H

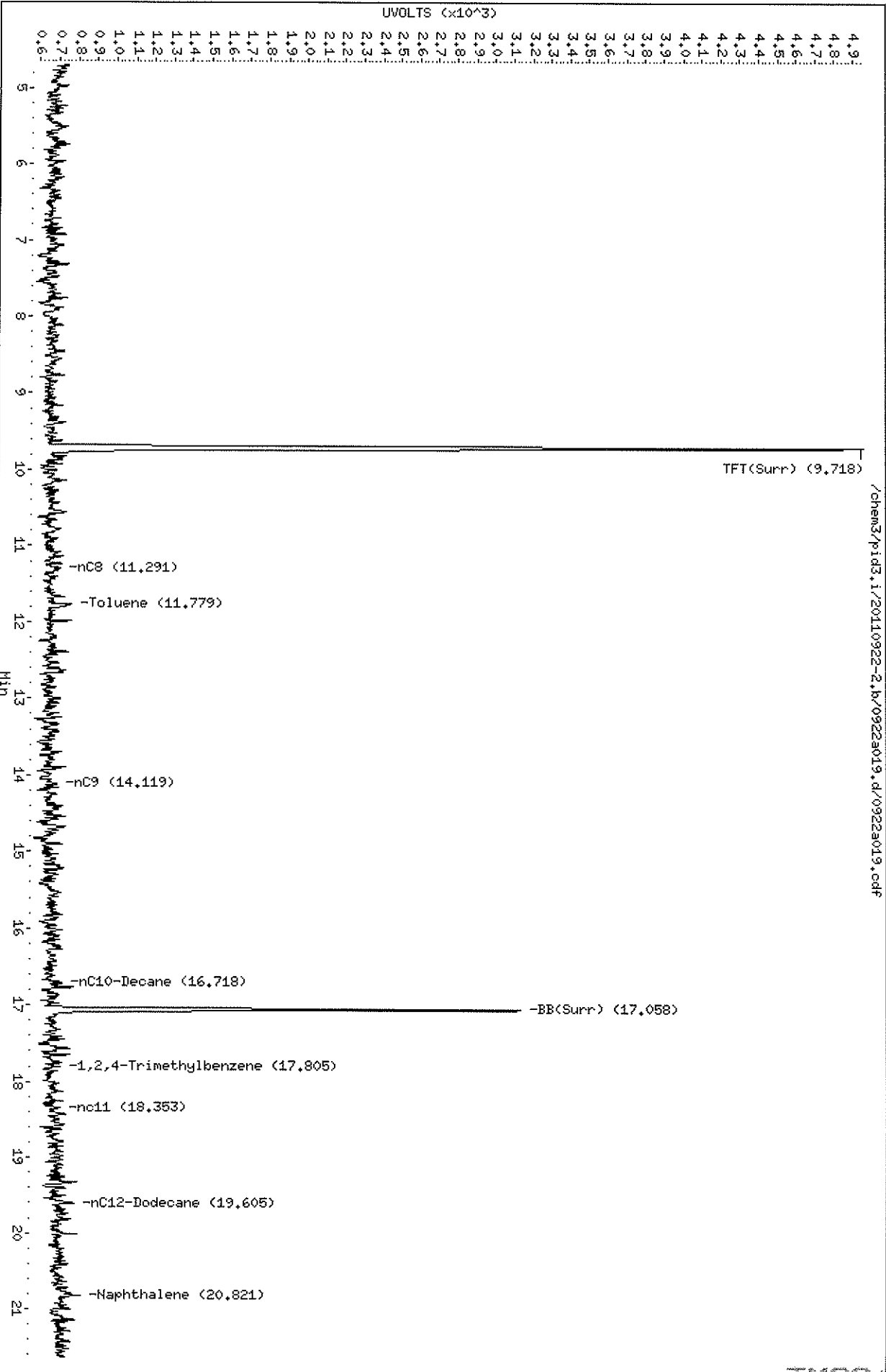
Column phase: RTX 502-2 FID

Instrument: pid3.i

Operator: HH

Column diameter: 0.18

Page 1

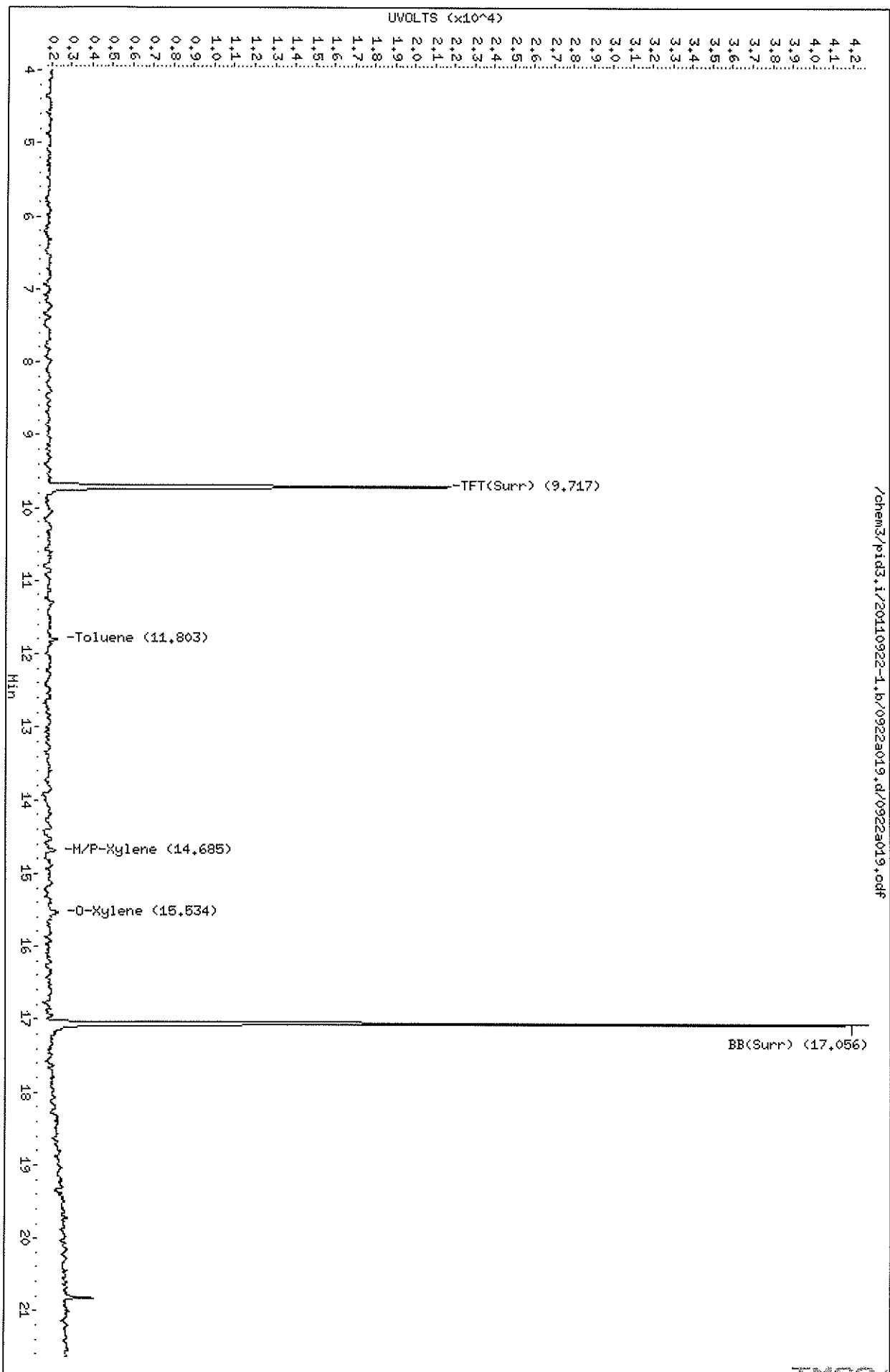


Data File: /chem3/pid3.i/20110922-1.b/0922a019.d
Date: 22-SEP-2011 13:49
Client ID: KJ-B8-14
Sample Info: TM62H

Column Phase: RTX 502-2 PID

/chem3/pid3.i/20110922-1.b/0922a019.d/0922a019.cdf

Instrument: pid3.i
Operator: HH
Column diameter: 0.18



12-09-2011 13:49:49

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: KJ-B9-13

SAMPLE

Lab Sample ID: TM62I

LIMS ID: 11-20227

Matrix: Soil

Data Release Authorized: *WV*

Reported: 09/29/11

QC Report No: TM62-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Event: NA

Date Sampled: 09/12/11

Date Received: 09/16/11

Date Analyzed: 09/22/11 14:15

Instrument/Analyst: PID3/MH

Purge Volume: 5.0 mL

Sample Amount: 86 mg-dry-wt

Percent Moisture: 16.3%

CAS Number	Analyte	RL	Result
71-43-2	Benzene	14	< 14 U
108-88-3	Toluene	14	< 14 U
100-41-4	Ethylbenzene	14	< 14 U
179601-23-1	m, p-Xylene	29	< 29 U
95-47-6	o-Xylene	14	55

Gasoline Range Hydrocarbons	5.8	< 5.8 U	GAS ID ---
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BETX Surrogate Recovery

Trifluorotoluene	97.2%
Bromobenzene	96.0%

Gasoline Surrogate Recovery

Trifluorotoluene	102%
Bromobenzene	98.4%

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

Data File: /chem3/pid3.i/20110922-2.b/0922a020.d

Date : 22-SEP-2011 14:15

Client ID: KJ-B9-13

Sample Info: TM621

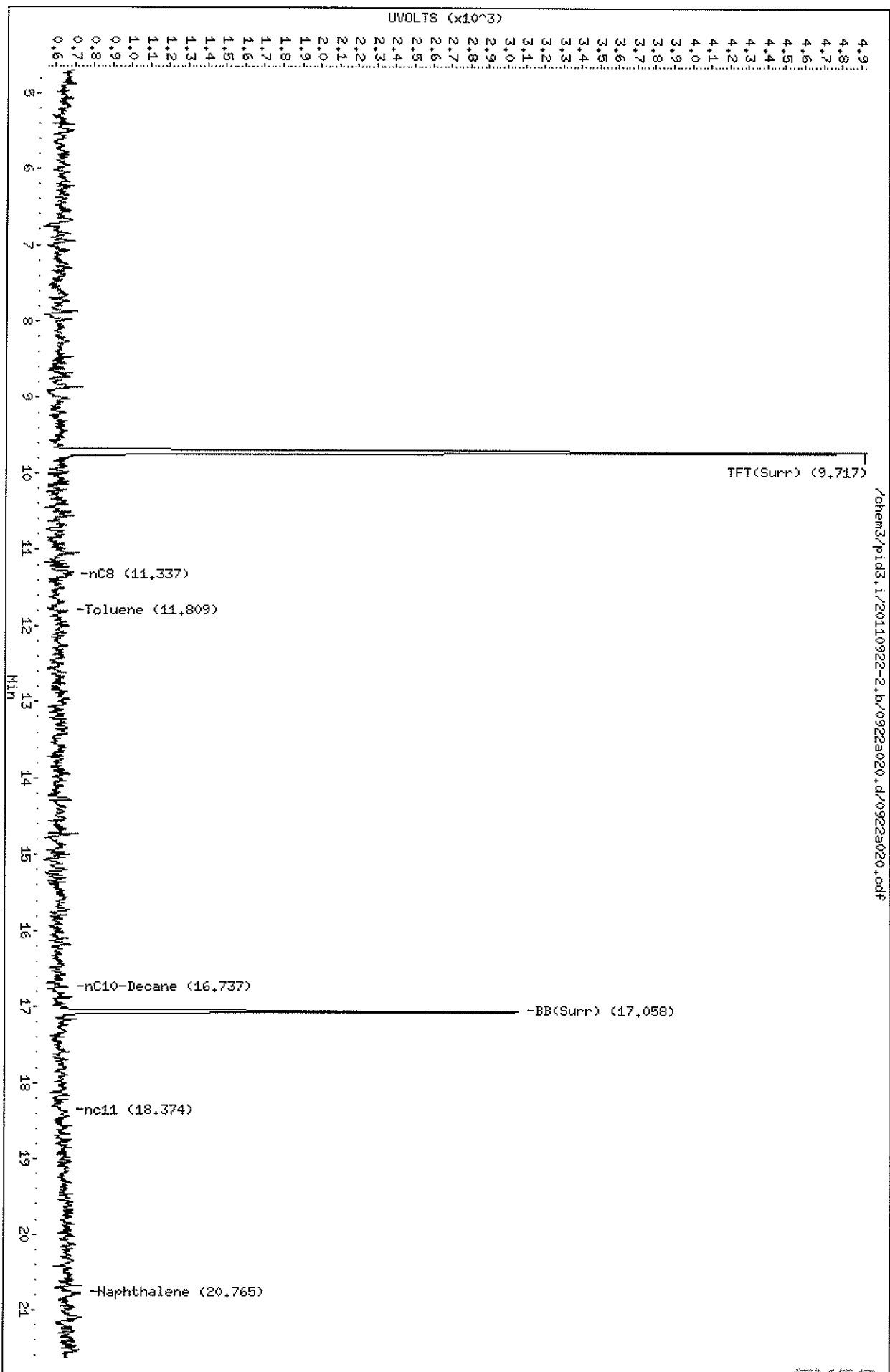
Column phase: RTX 502-2 FID

Instrument: pid3.i

Operator: HH

Column diameter: 0.18

Page 1



Data File: /chem3/pid3.i/20110922-1.b/0922a020.d

Date : 22-SEP-2011 14:15

Client ID: KJ-B9-13

Sample Info: TM621

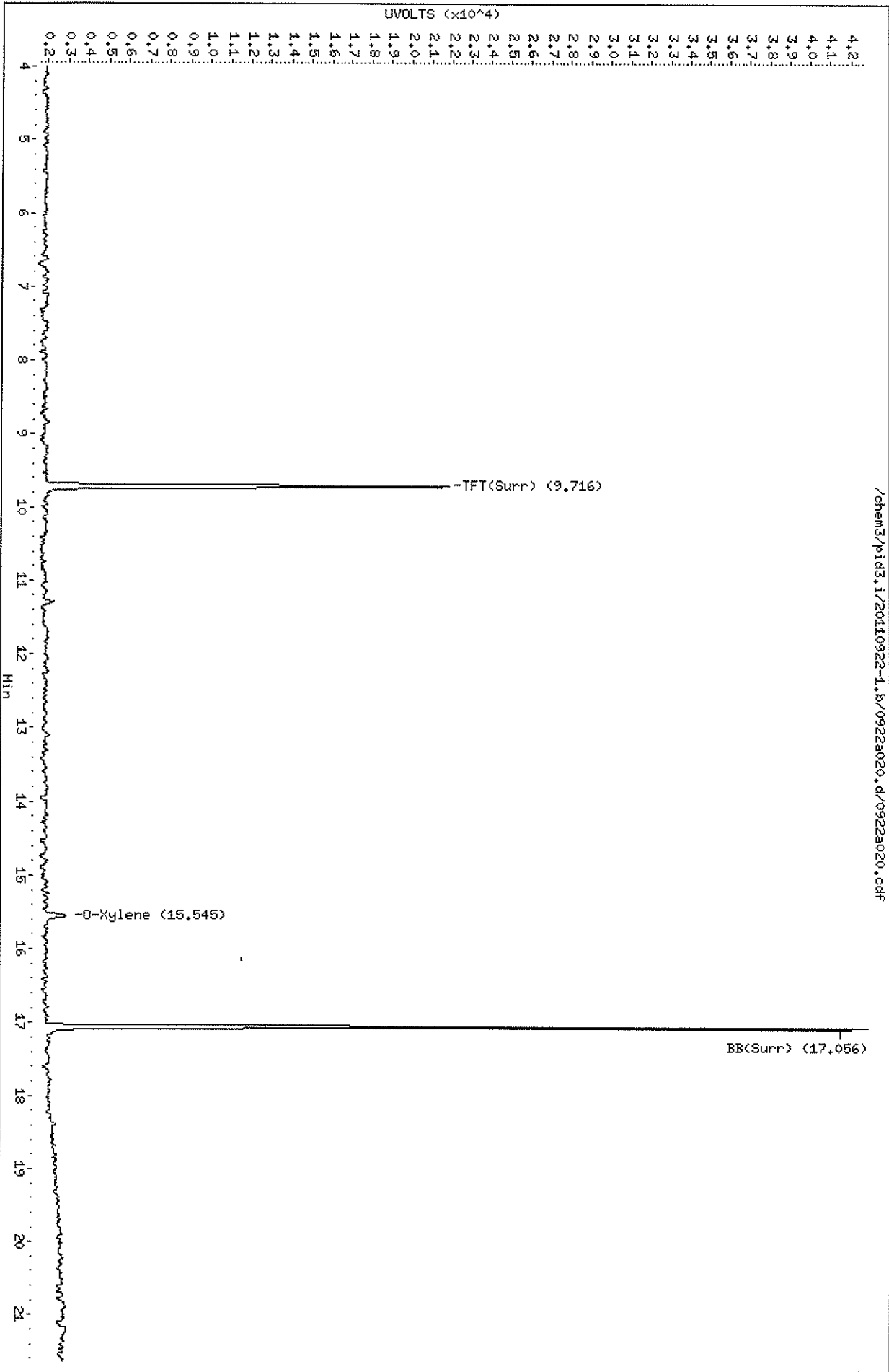
Column phase: RTX 502-2 PID

Instrument: pid3.i

Operator: HH

Column diameter: 0.18

/chem3/pid3.i/20110922-1.b/0922a020.d/0922a020.cdf



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ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: KJ-B10-8

SAMPLE

Lab Sample ID: TM62J

LIMS ID: 11-20228

Matrix: Soil

Data Release Authorized: *WVW*

Reported: 09/29/11

QC Report No: TM62-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Event: NA

Date Sampled: 09/12/11

Date Received: 09/16/11

Date Analyzed: 09/22/11 15:33

Instrument/Analyst: PID3/MH

Purge Volume: 5.0 mL

Sample Amount: 91 mg-dry-wt

Percent Moisture: 13.9%

CAS Number	Analyte	RL	Result	
71-43-2	Benzene	14	1,700	
108-88-3	Toluene	14	< 14	U
100-41-4	Ethylbenzene	14	460	
179601-23-1	m,p-Xylene	28	430	
95-47-6	o-Xylene	14	73	
	Gasoline Range Hydrocarbons	5.5	15	GAS ID GAS/GRO

BETX Surrogate Recovery

Trifluorotoluene	99.9%
Bromobenzene	101%

Gasoline Surrogate Recovery

Trifluorotoluene	103%
Bromobenzene	102%

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

Data File: /chem3/pid3.i/20110922-2.b/0922a023.d

Date: 22-SEP-2011 15:33

Client ID: KJ-B10-8

Sample Info: TM62J

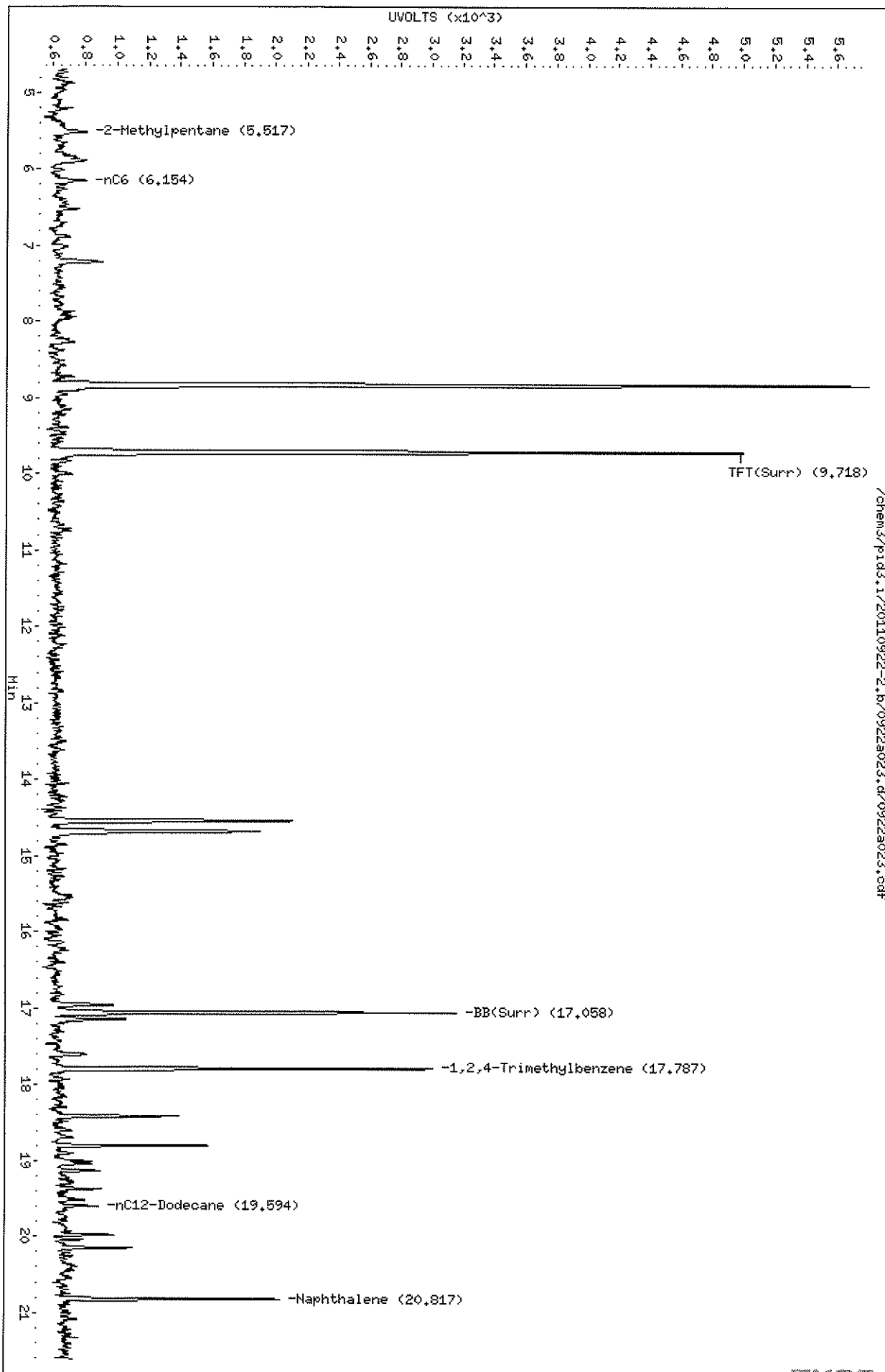
Column phase: RTX 502-2 FID

Instrument: pid3.i

Operator: HH

Column diameter: 0.18

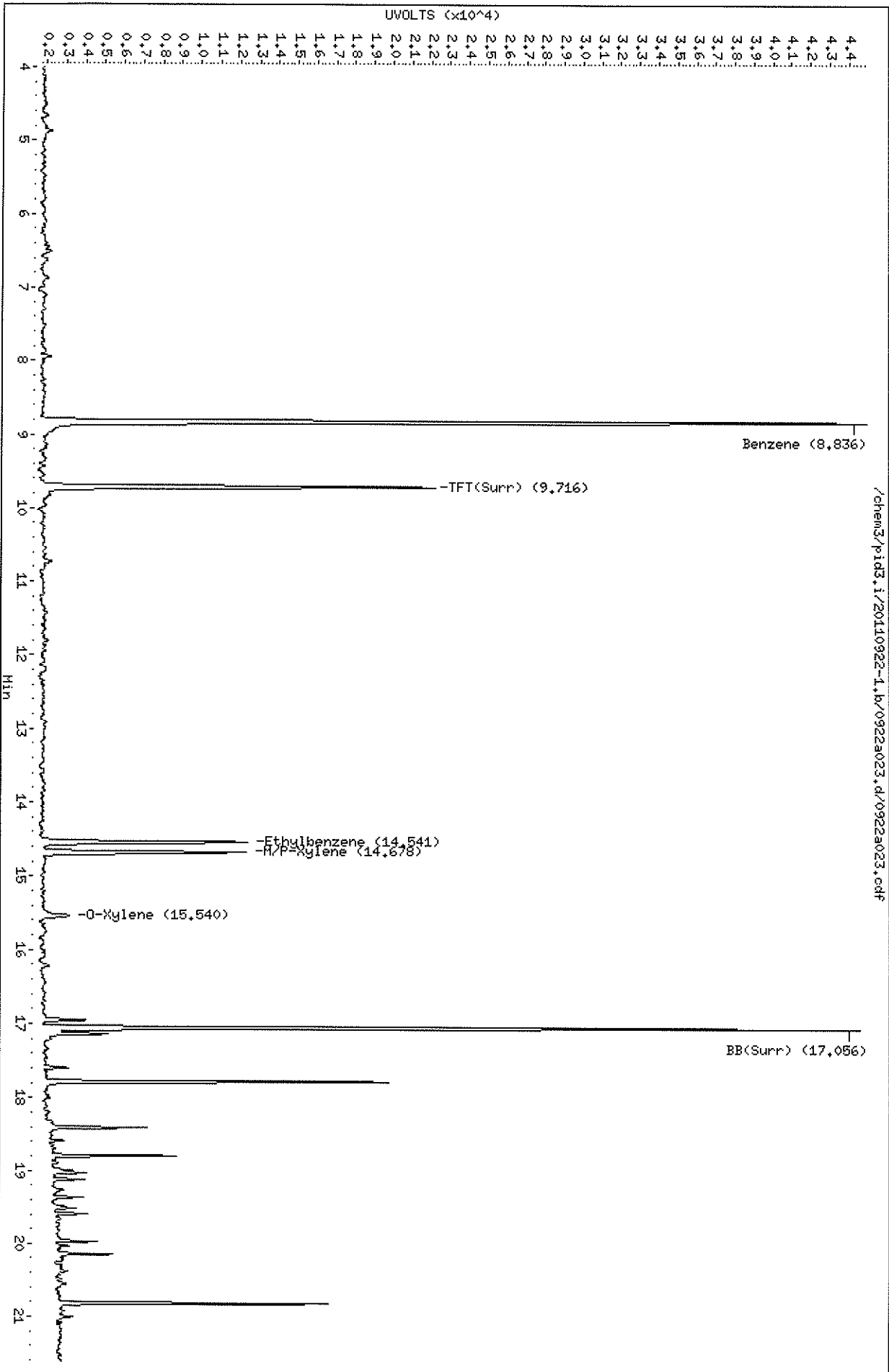
/chem3/pid3.i/20110922-2.b/0922a023.d/0922a023.pdf



Data File: /chem3/pid3.i/20110922-1.b/0922a023.d
Date: 22-SEP-2011 15:33
Client ID: KJ-BI0-8
Sample Info: TM62J

Column Phase: RTX 502-2 P1D

Instrument: pid3.i
Operator: MH
Column diameter: 0.18



/chem3/pid3.i/20110922-1.b/0922a023.d/0922a023.cdf

0922a023.d

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: KJ-B11-5

SAMPLE

Lab Sample ID: TM62K

LIMS ID: 11-20229

Matrix: Soil

Data Release Authorized: *MMW*

Reported: 09/29/11

QC Report No: TM62-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Event: NA

Date Sampled: 09/13/11

Date Received: 09/16/11

Date Analyzed: 09/22/11 16:00

Instrument/Analyst: PID3/MH

Purge Volume: 5.0 mL

Sample Amount: 60 mg-dry-wt

Percent Moisture: 11.4%

CAS Number	Analyte	RL	Result
71-43-2	Benzene	21	< 21 U
108-88-3	Toluene	21	1,600
100-41-4	Ethylbenzene	21	140
179601-23-1	m,p-Xylene	41	610
95-47-6	o-Xylene	21	470

Gasoline Range Hydrocarbons	8.3	1,200 E	GAS ID GAS/GRO
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BETX Surrogate Recovery

Trifluorotoluene	111%
Bromobenzene	134%

Gasoline Surrogate Recovery

Trifluorotoluene	120%
Bromobenzene	150%

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

Data File: /chem3/pid3.i/20110922-2.b/0922a024.d
Date: 22-SEP-2011 16:00
Client ID: KJ-B11-5
Sample Info: TMS2K

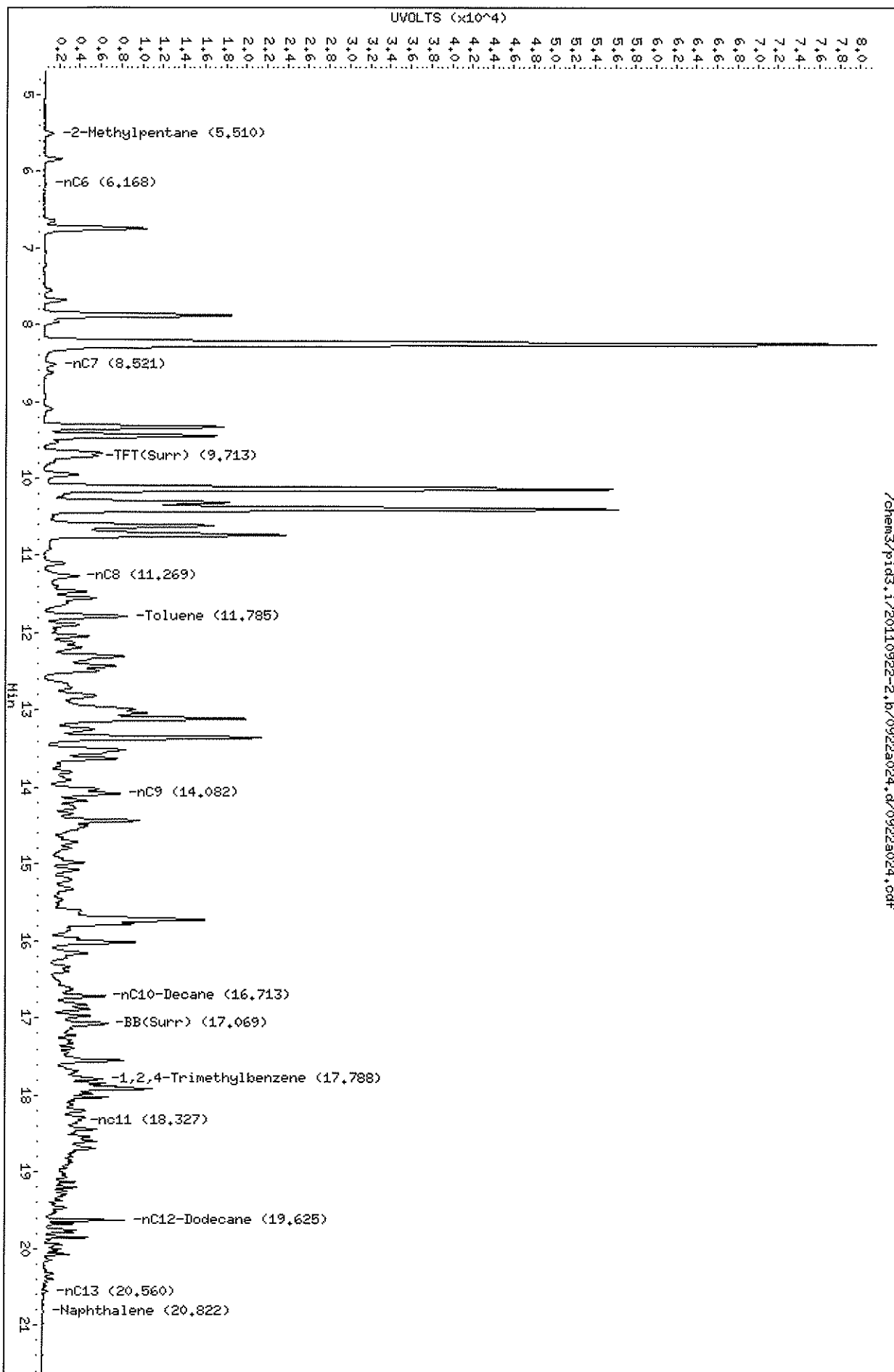
Column phase: RTX 502-2 FID

/chem3/pid3.i/20110922-2.b/0922a024.d/0922a024.pdf

Instrument: pid3.i

Operator: NH

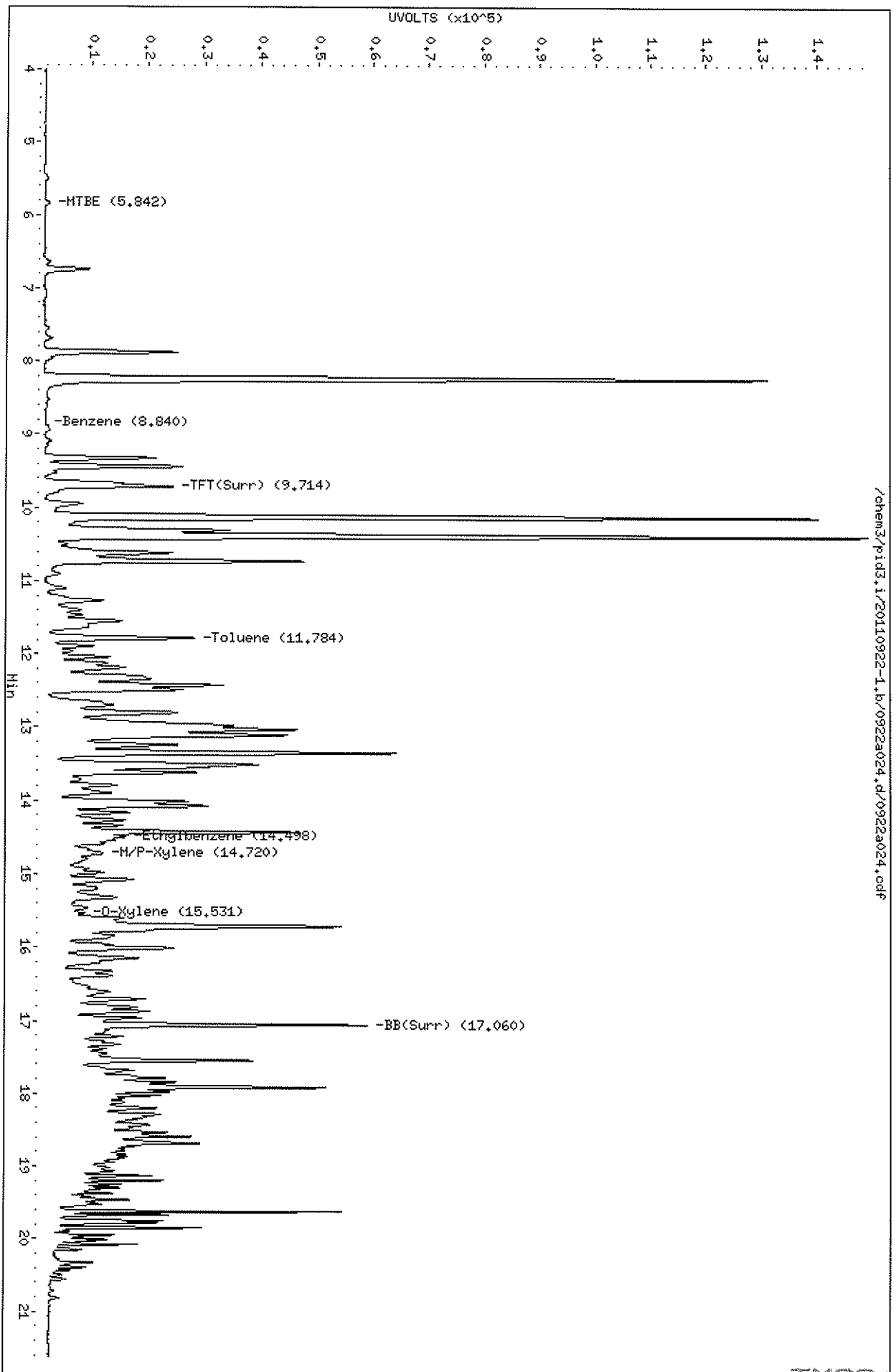
Column diameter: 0.18



Data File: /chem3/pid3.i/20110922-1.b/0922a024.d
Date: 22-SEP-2011 16:00
Client ID: KJ-B14-5
Sample Info: TH62K

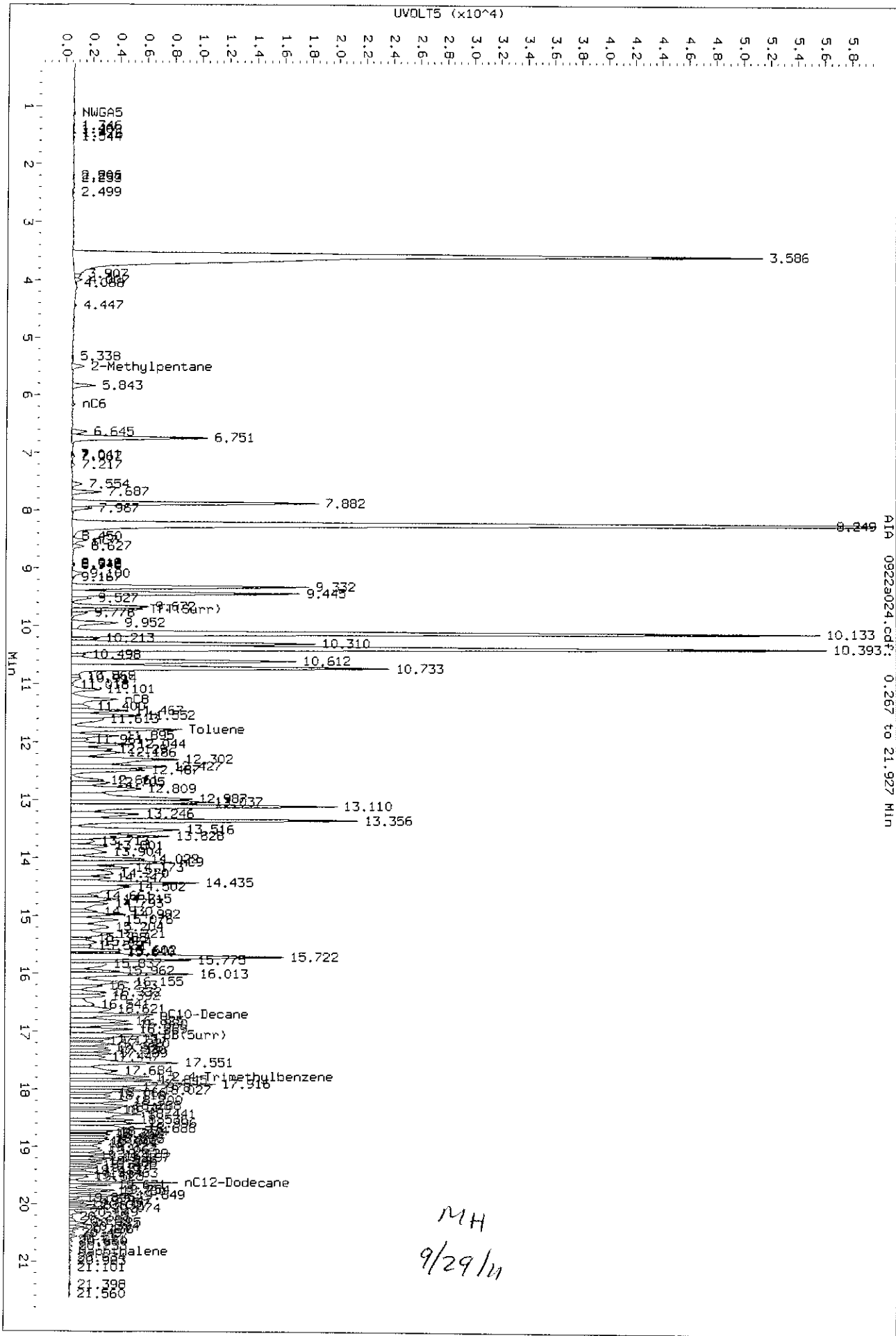
Column phase: RTX 502-2 PID

Instrument: pid3.i
Operator: HH
Column diameter: 0.18

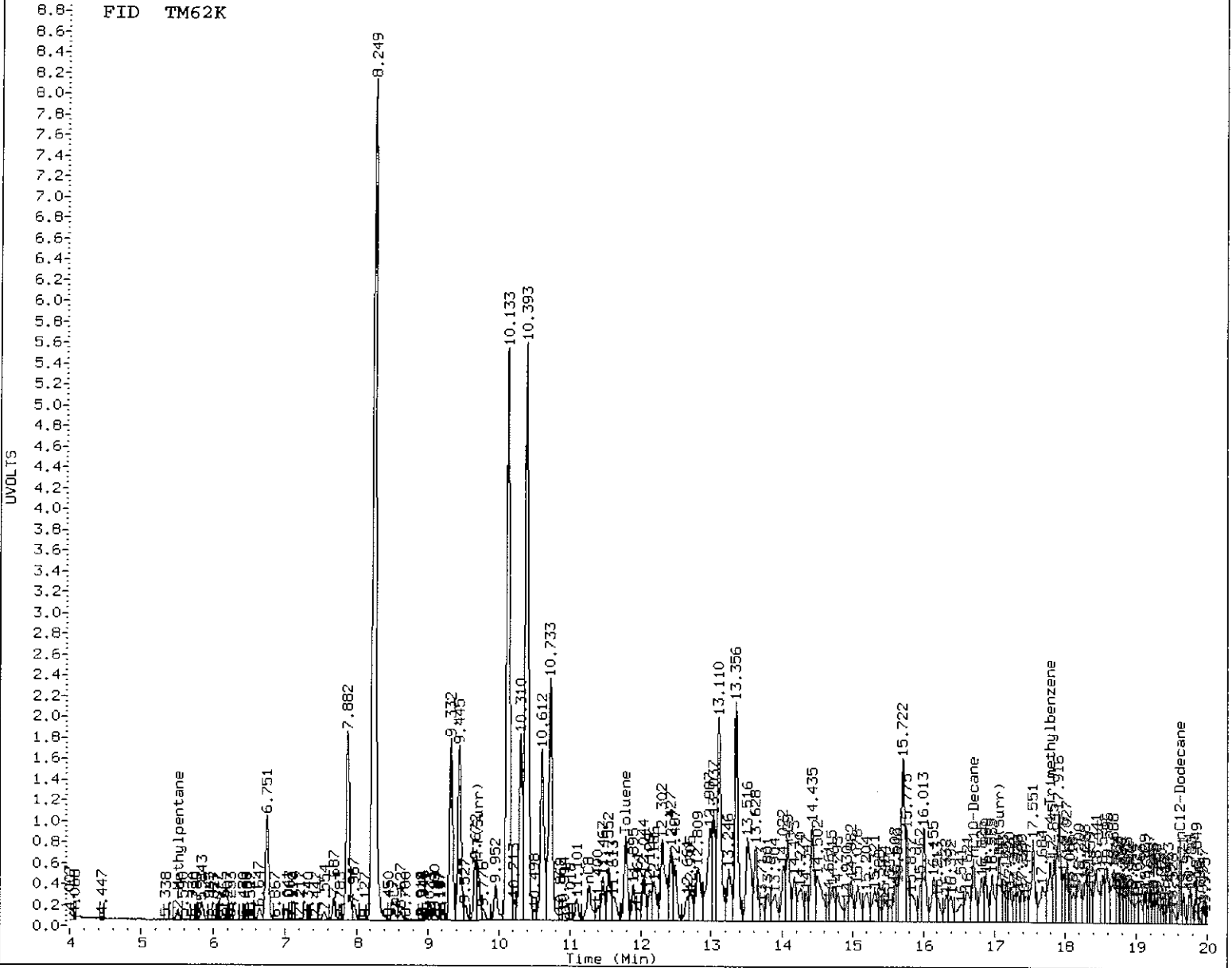


0922a024.cdf

Data File: /chem3/pid3.1/20110922-2.b/0922a024.d/0922a024.cdf
 Injection Date: 22-SEP-2011 16:00
 Instrument: pid3.1
 Client Sample ID: KI-B11-5



MH
9/29/11



ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021EMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: KJ-B11-5

DILUTION

Lab Sample ID: TM62K

LIMS ID: 11-20229

Matrix: Soil

Data Release Authorized:

Reported: 09/29/11

QC Report No: TM62-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Event: NA

Date Sampled: 09/13/11

Date Received: 09/16/11

Date Analyzed: 09/23/11 03:34

Instrument/Analyst: PID3/MH

Purge Volume: 5.0 mL

Sample Amount: 6.0 mg-dry-wt

Percent Moisture: 11.4%

CAS Number	Analyte	RL	Result	
71-43-2	Benzene	210	< 210	U
108-88-3	Toluene	210	1,200	
100-41-4	Ethylbenzene	210	< 210	U
179601-23-1	m,p-Xylene	410	580	
95-47-6	o-Xylene	210	640	
Gasoline Range Hydrocarbons		83	1,200	GAS ID GRO
BETX Surrogate Recovery				
	Trifluorotoluene	101%		
	Bromobenzene	99.8%		
Gasoline Surrogate Recovery				
	Trifluorotoluene	104%		
	Bromobenzene	111%		

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

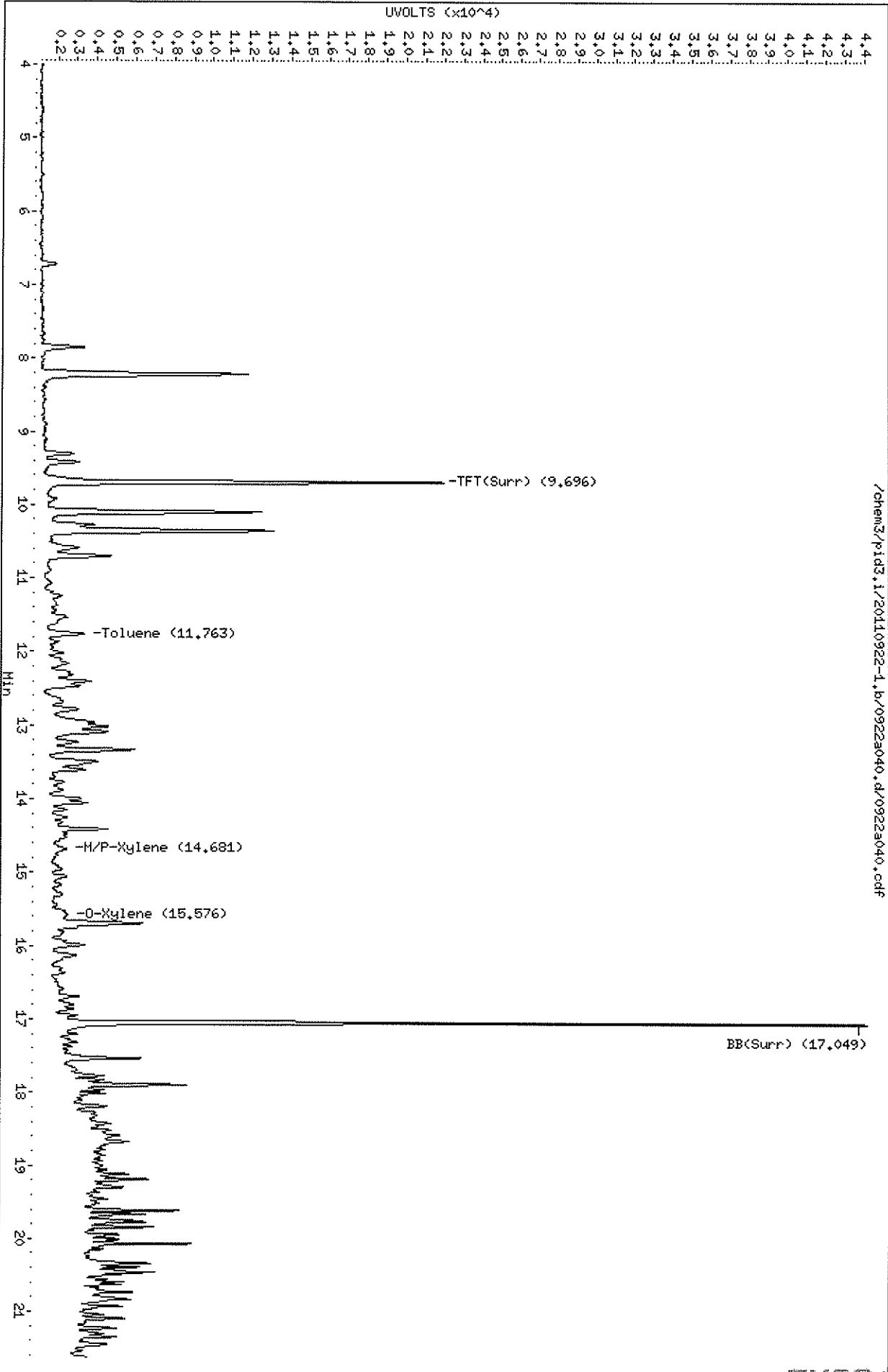
Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

Data File: /chem3/pid3.i/20110922-1.b/0922a040.d
Date: 23-SEP-2011 03:34
Client ID: KJ-B14-5
Sample Info: TH62K

Column phase: RTX 502-2 PID

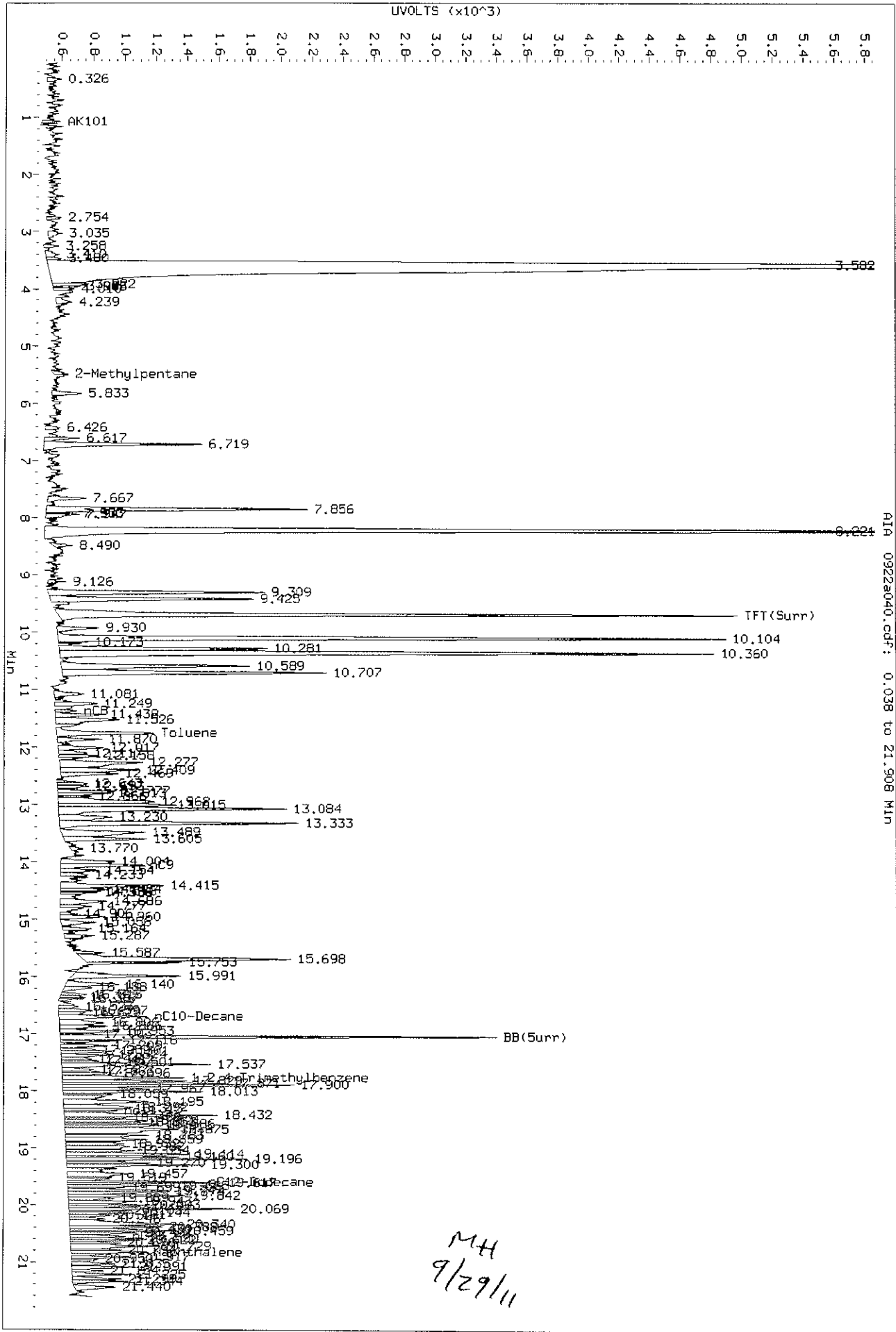
/chem3/pid3.i/20110922-1.b/0922a040.d/0922a040.cdf

Instrument: pid3.i
Operator: HH
Column diameter: 0.18



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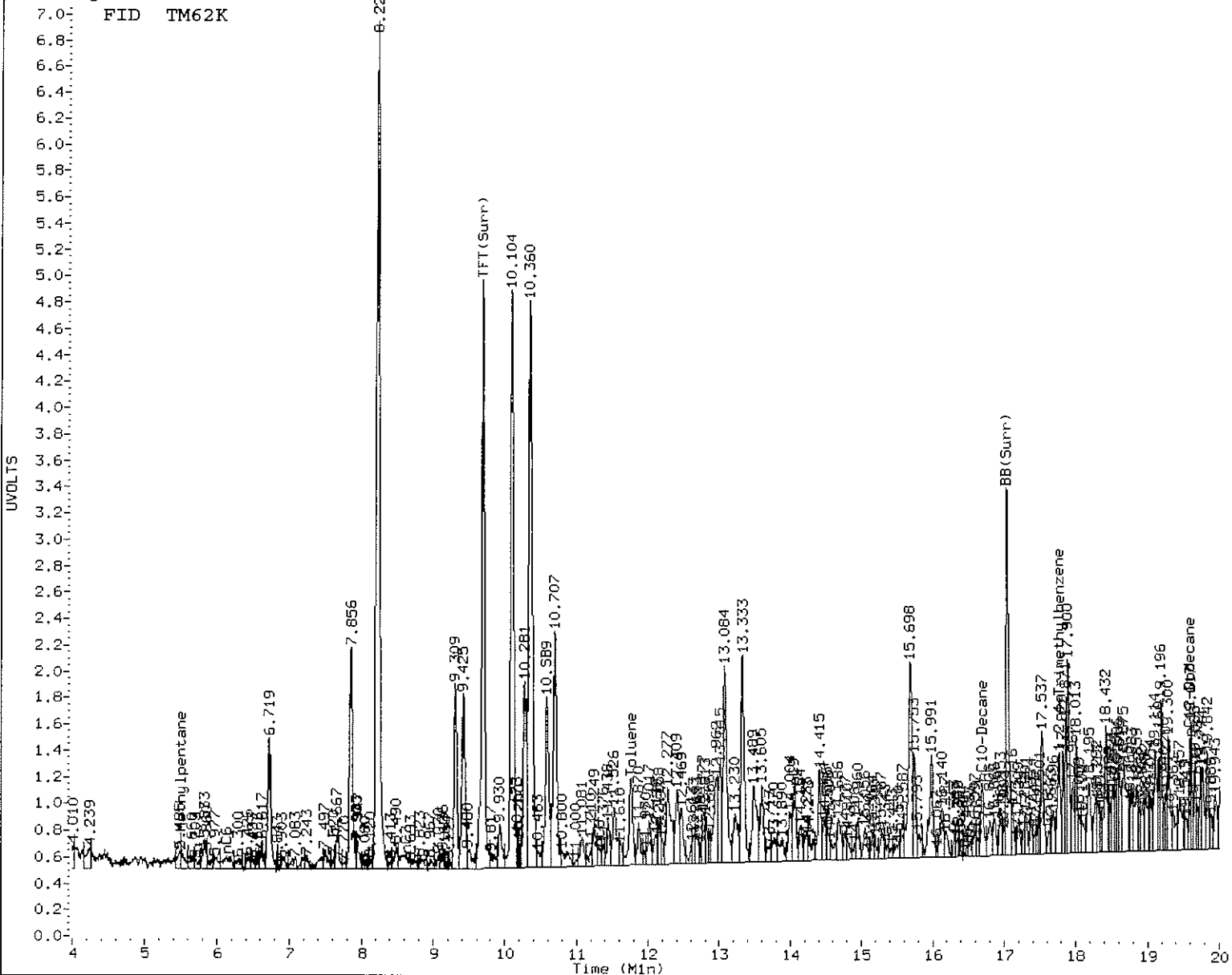
Data File: /chem3/pid3.1/20110922-2.b/0922a040.d/0922a040.cdf
Injection Date: 23-SEP-2011 03:34
Instrument: pid3.1
Client Sample ID: KJ-B11-5



AIA 0922a040.cdf: 0.038 to 21.908 Min

MH
9/29/11

FID TM62K



MANUAL INTEGRATION

- Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: MH

Date: 9/29/14

ORGANICS ANALYSIS DATA SHEET
 BETX by Method SW8021BMod
 TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: KJ-B12-6
 SAMPLE



Lab Sample ID: TM62L
 LIMS ID: 11-20230
 Matrix: Soil
 Data Release Authorized: *MW*
 Reported: 09/29/11

QC Report No: TM62-Kennedy Jenks Consultants
 Project: Ecology Cornet Bay
 Event: NA
 Date Sampled: 09/13/11
 Date Received: 09/16/11

Date Analyzed: 09/23/11 04:26
 Instrument/Analyst: PID3/MH

Purge Volume: 5.0 mL
 Sample Amount: 89 mg-dry-wt
 Percent Moisture: 15.2%

CAS Number	Analyte	RL	Result
71-43-2	Benzene	14	25
108-88-3	Toluene	14	24
100-41-4	Ethylbenzene	14	< 14 U
179601-23-1	m, p-Xylene	28	< 28 U
95-47-6	o-Xylene	14	750

Gasoline Range Hydrocarbons 5.6 < 5.6 U GAS ID ---

BETX Surrogate Recovery

Trifluorotoluene	96.3%
Bromobenzene	92.9%

Gasoline Surrogate Recovery

Trifluorotoluene	101%
Bromobenzene	99.0%

BETX values reported in µg/kg (ppb)
 Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

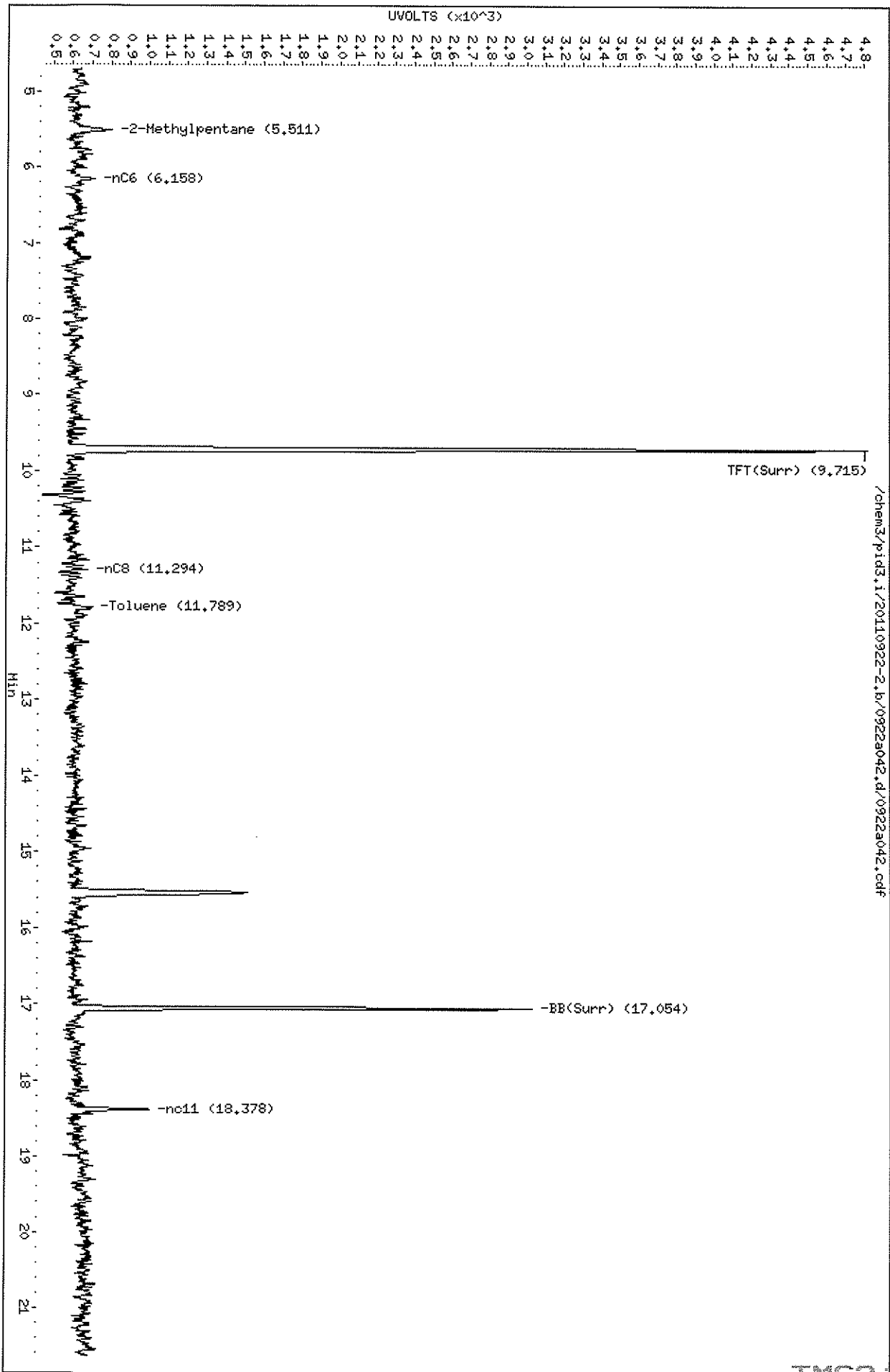
Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

Data File: /chem3/pid3.i/20110922-2.b/0922a042.d
Date : 23-SEP-2011 04:26
Client ID: KJ-B12-6
Sample Info: TH62L

Column phase: RTX 502-2 FID

Instrument: pid3.i
Operator: HH
Column diameter: 0.18



/chem3/pid3.i/20110922-2.b/0922a042.d/0922a042.cdf

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ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: KJ-B13-4

SAMPLE



Lab Sample ID: TM62M

LIMS ID: 11-20231

Matrix: Soil

Data Release Authorized: *WVW*

Reported: 09/29/11

QC Report No: TM62-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Event: NA

Date Sampled: 09/13/11

Date Received: 09/16/11

Date Analyzed: 09/22/11 16:52

Instrument/Analyst: PID3/MH

Purge Volume: 5.0 mL

Sample Amount: 59 mg-dry-wt

Percent Moisture: 24.5%

CAS Number	Analyte	RL	Result
71-43-2	Benzene	21	< 21 U
108-88-3	Toluene	21	< 21 U
100-41-4	Ethylbenzene	21	< 21 U
179601-23-1	m,p-Xylene	42	< 42 U
95-47-6	o-Xylene	21	59

Gasoline Range Hydrocarbons	8.4	< 8.4 U	GAS ID ---
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BETX Surrogate Recovery

Trifluorotoluene	100%
Bromobenzene	98.9%

Gasoline Surrogate Recovery

Trifluorotoluene	102%
Bromobenzene	104%

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

Data File: /chem3/pid3.i/20110922-1.b/0922a026.d

Date : 22-SEP-2011 16:52

Client ID: KJ-B13-4

Sample Info: TH62H

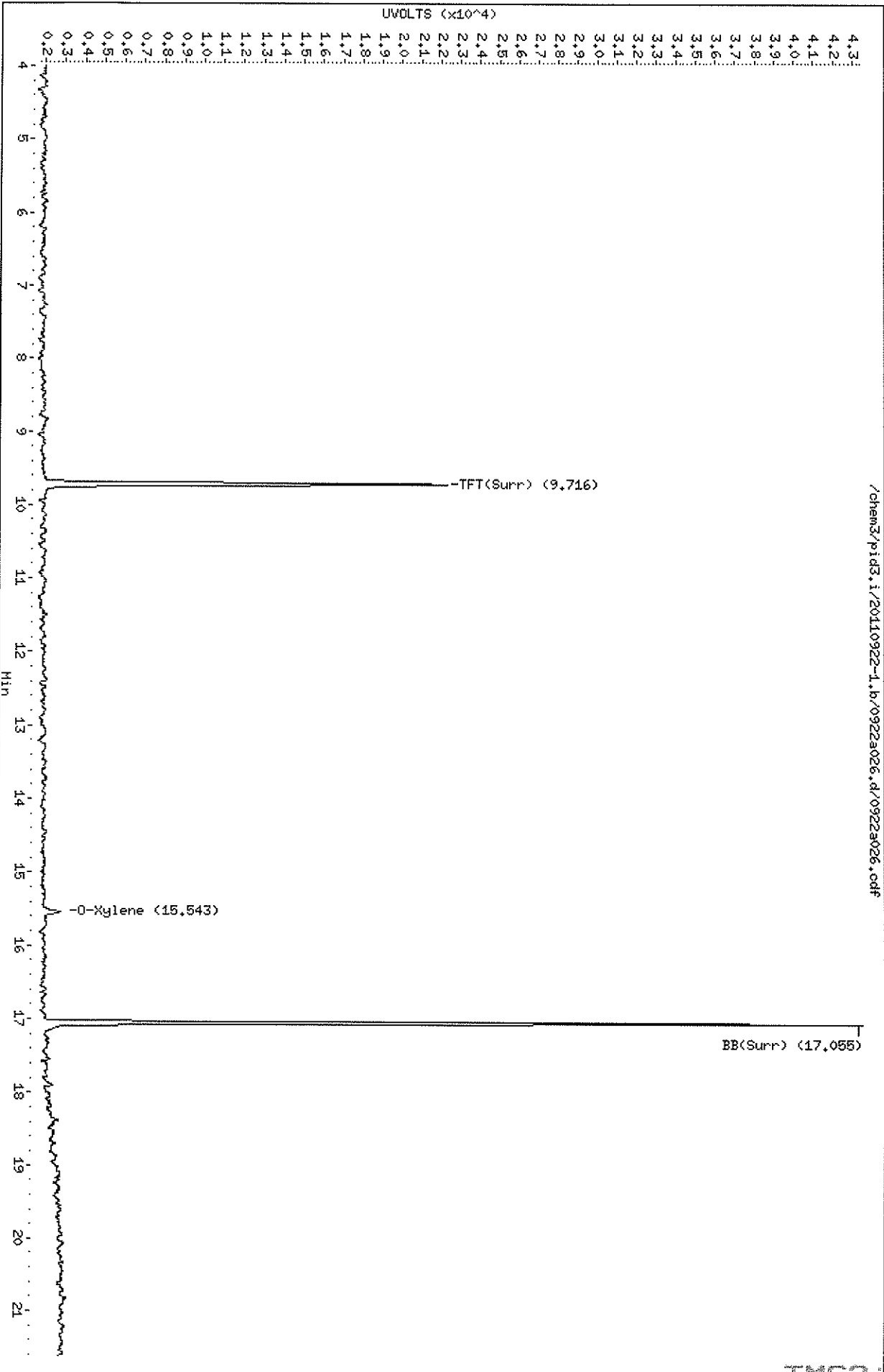
Column phase: RTX 502-2 P1D

Instrument: pid3.i

Operator: MH

Column diameter: 0.18

Page 1



/chem3/pid3.i/20110922-1.b/0922a026.d/0922a026.cdf

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ORGANICS ANALYSIS DATA SHEET
 BETX by Method SW8021BMod
 TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: KJ-B14-3
 SAMPLE



Lab Sample ID: TM62N
 LIMS ID: 11-20232
 Matrix: Soil
 Data Release Authorized: *mmw*
 Reported: 09/29/11

QC Report No: TM62-Kennedy Jenks Consultants
 Project: Ecology Cornet Bay
 Event: NA
 Date Sampled: 09/13/11
 Date Received: 09/16/11

Date Analyzed: 09/22/11 17:18
 Instrument/Analyst: PID3/MH

Purge Volume: 5.0 mL
 Sample Amount: 90 mg-dry-wt
 Percent Moisture: 3.2%

CAS Number	Analyte	RL	Result	
71-43-2	Benzene	14	< 14	U
108-88-3	Toluene	14	22	
100-41-4	Ethylbenzene	14	22	
179601-23-1	m,p-Xylene	28	31	
95-47-6	o-Xylene	14	< 14	U
Gasoline Range Hydrocarbons		5.6	11	GAS ID GRO
BETX Surrogate Recovery				
	Trifluorotoluene	94.9%		
	Bromobenzene	94.2%		
Gasoline Surrogate Recovery				
	Trifluorotoluene	98.4%		
	Bromobenzene	98.2%		

BETX values reported in µg/kg (ppb)
 Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.
 Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.
 Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

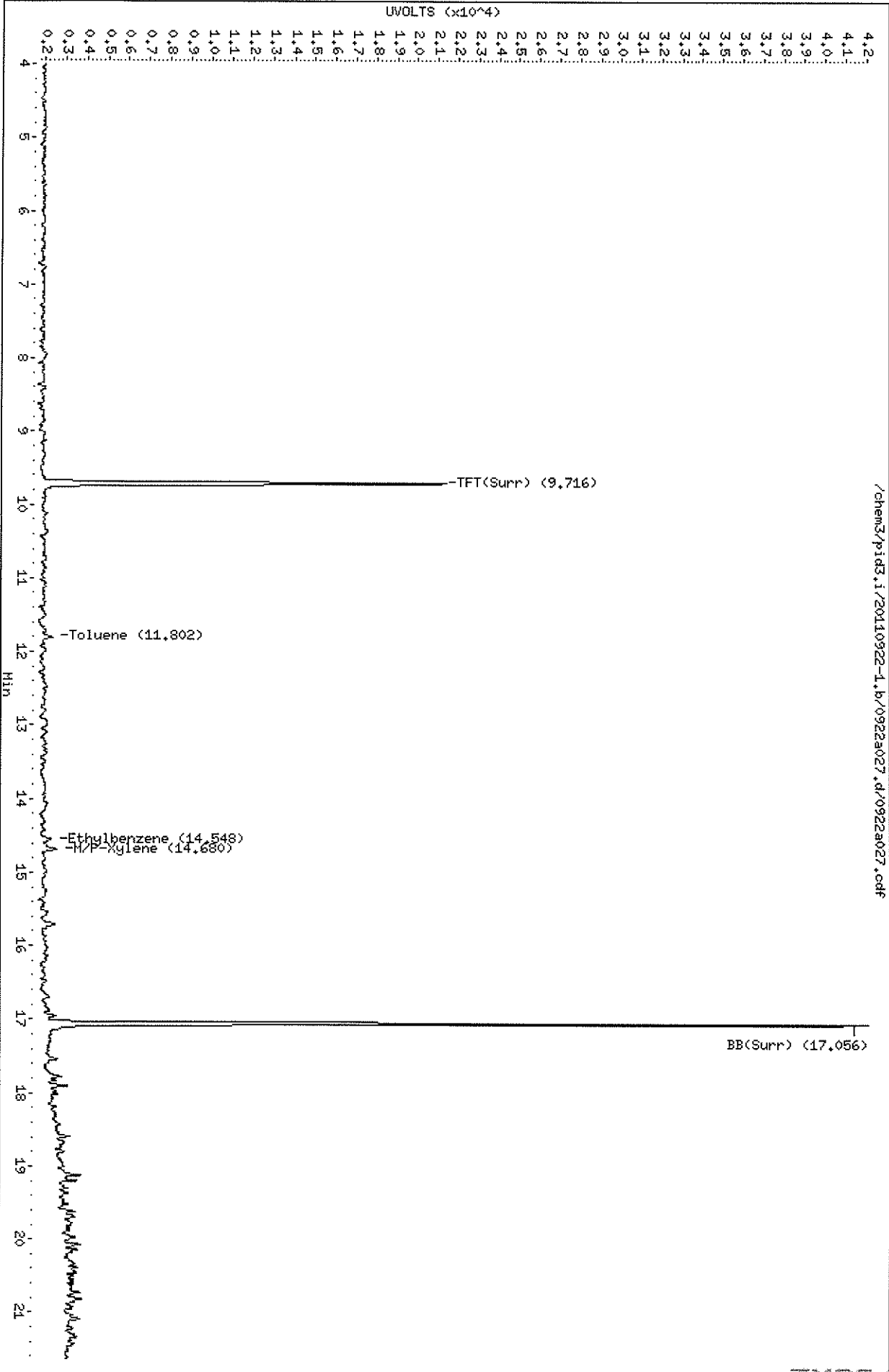
Data File: /chem3/pid3.i/20110922-1.b/0922a027.d
Date : 22-SEP-2011 17:18
Client ID: KJ-B14-3
Sample Info: TH62N

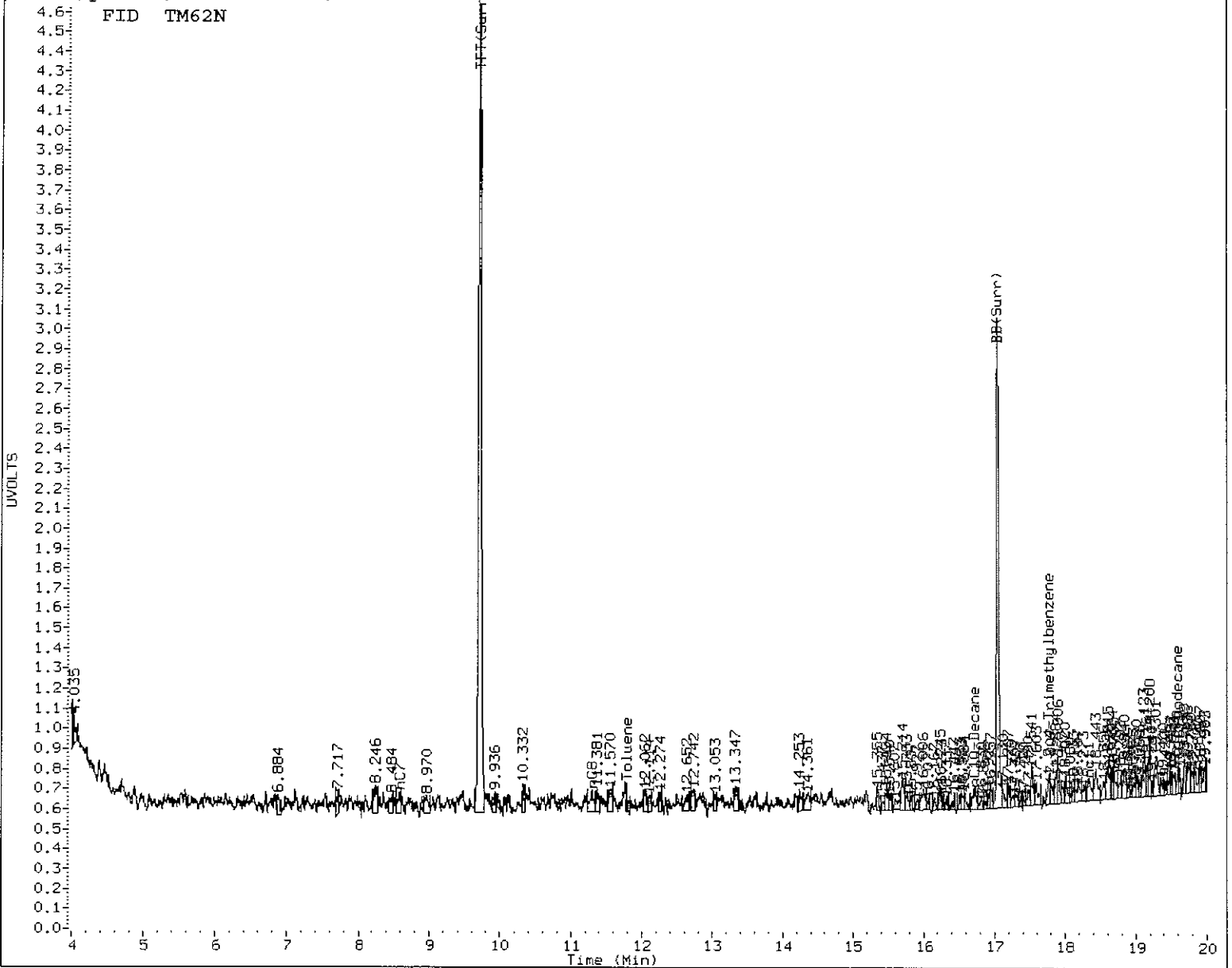
Instrument: pid3.i

Column phase: RTX 502-2 PID

Operator: MH
Column diameter: 0.18

/chem3/pid3.i/20110922-1.b/0922a027.d/0922a027.cdf





MANUAL INTEGRATION

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: MT Date: 9/29/11

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: KJ-B15-4

SAMPLE

Lab Sample ID: TM620

LIMS ID: 11-20233

Matrix: Soil

Data Release Authorized: *WJW*

Reported: 09/29/11

QC Report No: TM62-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Event: NA

Date Sampled: 09/13/11

Date Received: 09/16/11

Date Analyzed: 09/22/11 18:37

Instrument/Analyst: PID3/MH

Purge Volume: 5.0 mL

Sample Amount: 82 mg-dry-wt

Percent Moisture: 14.1%

CAS Number	Analyte	RL	Result
71-43-2	Benzene	15	< 15 U
108-88-3	Toluene	15	< 15 U
100-41-4	Ethylbenzene	15	< 15 U
179601-23-1	m, p-Xylene	30	< 30 U
95-47-6	o-Xylene	15	43

Gasoline Range Hydrocarbons	6.1	< 6.1 U	GAS ID ---
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BETX Surrogate Recovery

Trifluorotoluene	97.6%
Bromobenzene	96.3%

Gasoline Surrogate Recovery

Trifluorotoluene	101%
Bromobenzene	101%

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ORGANICS ANALYSIS DATA SHEET
 BETX by Method SW8021BMod
 TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: KJ-B16-4
 SAMPLE

Lab Sample ID: TM62P
 LIMS ID: 11-20234
 Matrix: Soil
 Data Release Authorized: *WV*
 Reported: 09/29/11

QC Report No: TM62-Kennedy Jenks Consultants
 Project: Ecology Cornet Bay
 Event: NA
 Date Sampled: 09/13/11
 Date Received: 09/16/11

Date Analyzed: 09/22/11 19:03
 Instrument/Analyst: PID3/MH

Purge Volume: 5.0 mL
 Sample Amount: 82 mg-dry-wt
 Percent Moisture: 13.3%

CAS Number	Analyte	RL	Result	
71-43-2	Benzene	15	< 15	U
108-88-3	Toluene	15	44	
100-41-4	Ethylbenzene	15	< 15	U
179601-23-1	m, p-Xylene	31	< 31	U
95-47-6	o-Xylene	15	< 15	U
	Gasoline Range Hydrocarbons	6.1	< 6.1	U
				GAS ID ---
BETX Surrogate Recovery				
	Trifluorotoluene	97.7%		
	Bromobenzene	96.0%		
Gasoline Surrogate Recovery				
	Trifluorotoluene	101%		
	Bromobenzene	102%		

BETX values reported in µg/kg (ppb)
 Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

Data File: /chem3/pid3.i/20110922-2.b/0922a031.d

Date : 22-SEP-2011 19:03

Client ID: KJ-B16-4

Sample Info: TMS2P

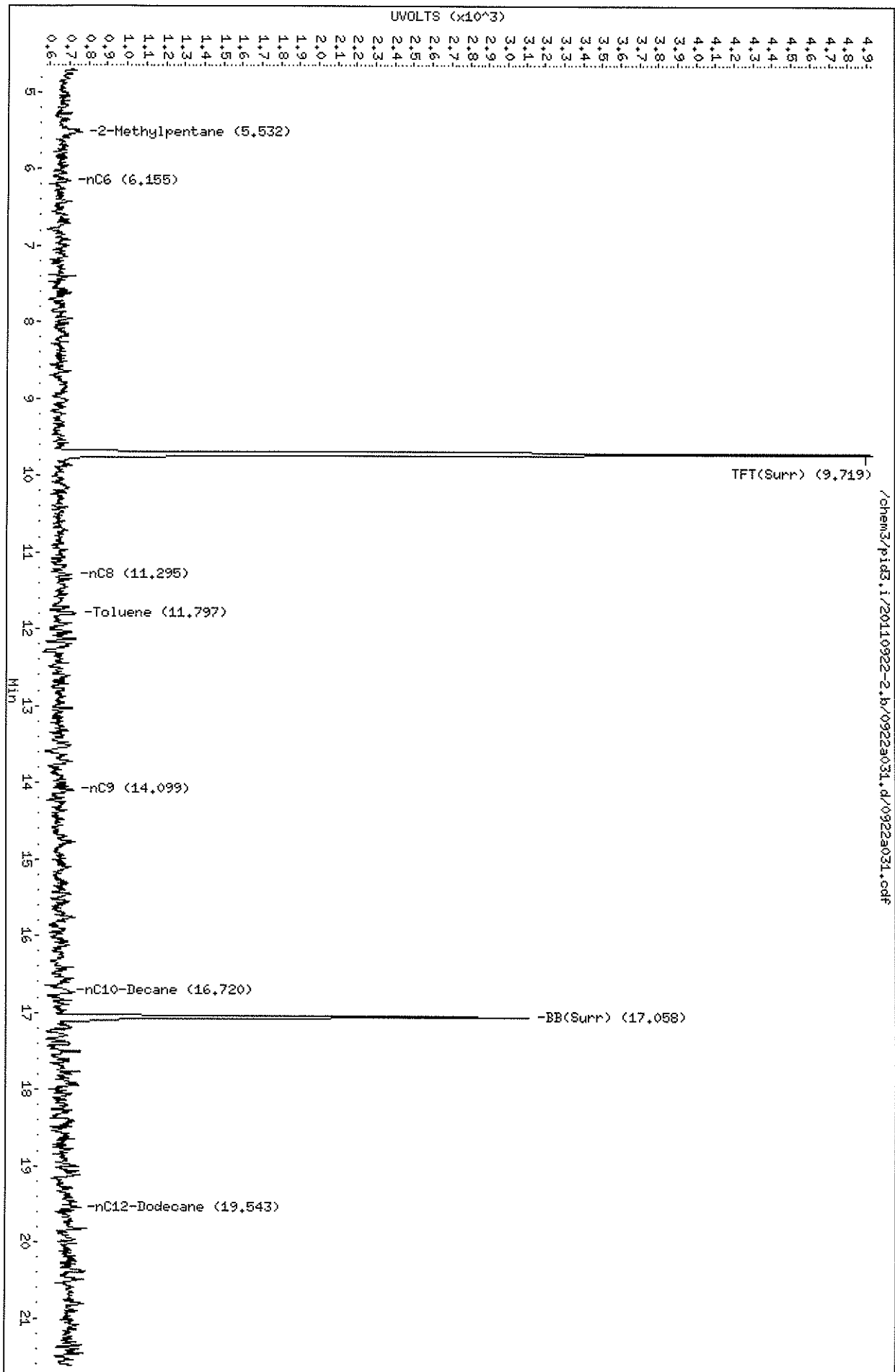
Instrument: pid3.i

Operator: HH

Column diameter: 0.18

Column phase: RTX 502-2 FID

/chem3/pid3.i/20110922-2.b/0922a031.d/0922a031.cdf



Data File: /chem3/pid3.i/20110922-1.b/0922a031.d

Date: 22-SEP-2011 19:03

Client ID: KJ-B16-4

Sample Info: TM62P

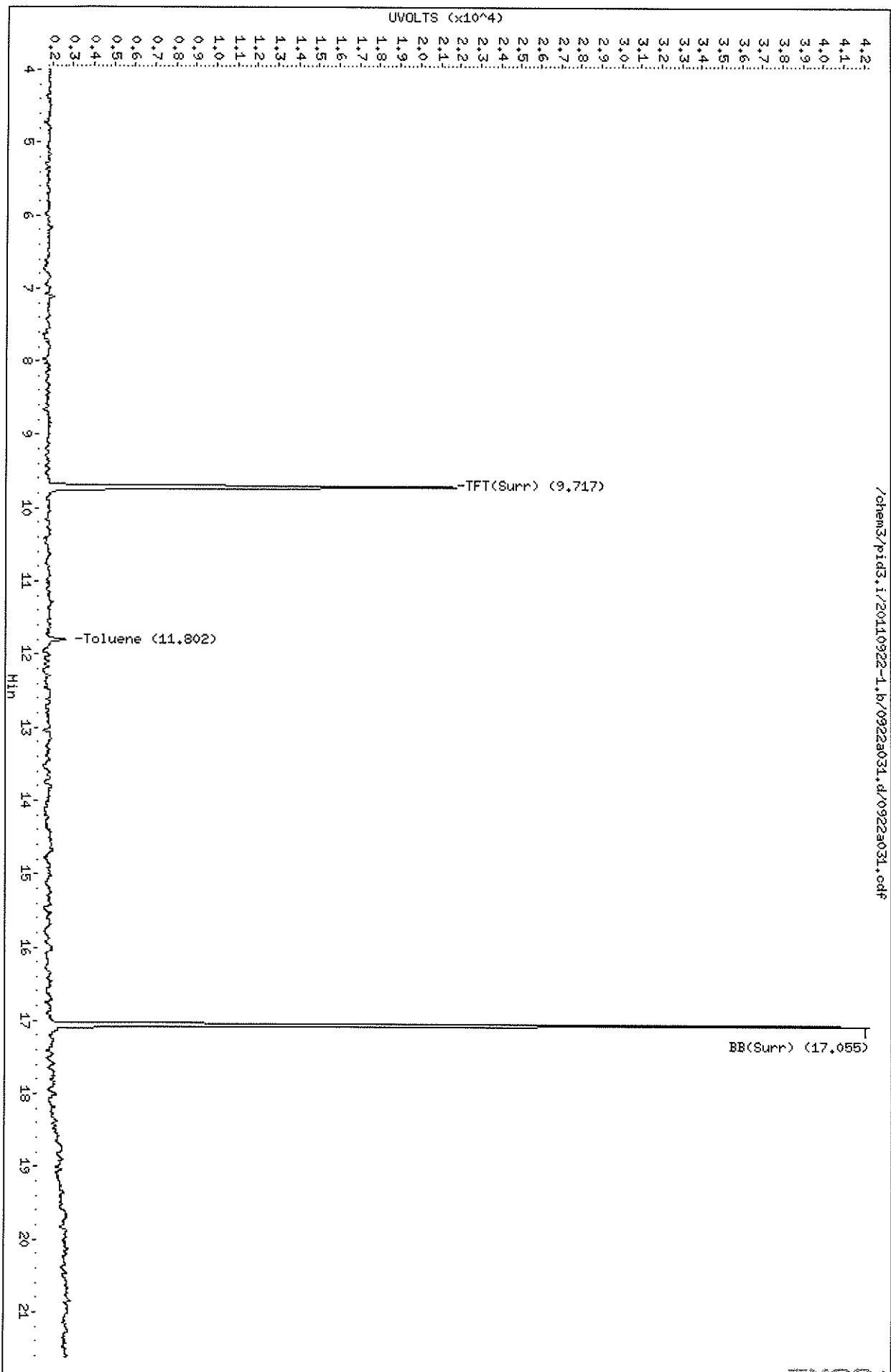
Column phase: RTX 502-2 PID

Instrument: pid3.i

Operator: HH

Column diameter: 0.18

Page 1



/chem3/pid3.i/20110922-1.b/0922a031.d/0922a031.cdf

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ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: KJ-B17-4

SAMPLE

Lab Sample ID: TM62Q

LIMS ID: 11-20235

Matrix: Soil

Data Release Authorized: *MW*

Reported: 09/29/11

QC Report No: TM62-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Event: NA

Date Sampled: 09/13/11

Date Received: 09/16/11

Date Analyzed: 09/22/11 19:29

Instrument/Analyst: PID3/MH

Purge Volume: 5.0 mL

Sample Amount: 88 mg-dry-wt

Percent Moisture: 12.6%

CAS Number	Analyte	RL	Result
71-43-2	Benzene	14	< 14 U
108-88-3	Toluene	14	< 14 U
100-41-4	Ethylbenzene	14	< 14 U
179601-23-1	m, p-Xylene	28	< 28 U
95-47-6	o-Xylene	14	< 14 U

Gasoline Range Hydrocarbons	5.7	< 5.7 U	GAS ID ---
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BETX Surrogate Recovery

Trifluorotoluene	93.4%
Bromobenzene	93.3%

Gasoline Surrogate Recovery

Trifluorotoluene	96.5%
Bromobenzene	97.3%

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ORGANICS ANALYSIS DATA SHEET
 BETX by Method SW8021BMod
 TPHG by Method NWTPHG
 Page 1 of 1



Sample ID: KJ-B18-4
 SAMPLE

Lab Sample ID: TM62R
 LIMS ID: 11-20236
 Matrix: Soil
 Data Release Authorized: *YWW*
 Reported: 09/29/11

QC Report No: TM62-Kennedy Jenks Consultants
 Project: Ecology Cornet Bay
 Event: NA
 Date Sampled: 09/13/11
 Date Received: 09/16/11

Date Analyzed: 09/22/11 19:56
 Instrument/Analyst: PID3/MH

Purge Volume: 5.0 mL
 Sample Amount: 89 mg-dry-wt
 Percent Moisture: 8.9%

CAS Number	Analyte	RL	Result
71-43-2	Benzene	14	50
108-88-3	Toluene	14	< 14 U
100-41-4	Ethylbenzene	14	< 14 U
179601-23-1	m,p-Xylene	28	< 28 U
95-47-6	o-Xylene	14	33

Gasoline Range Hydrocarbons	5.6	< 5.6 U	GAS ID ---
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BETX Surrogate Recovery

Trifluorotoluene	93.1%
Bromobenzene	92.5%

Gasoline Surrogate Recovery

Trifluorotoluene	96.7%
Bromobenzene	98.4%

BETX values reported in µg/kg (ppb)
 Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

Data File: /chem3/pid3.i/20110922-2.bv/0922a033.d

Date: 22-SEP-2011 19:56

Client ID: KJ-BL8-4

Sample Info: THEER

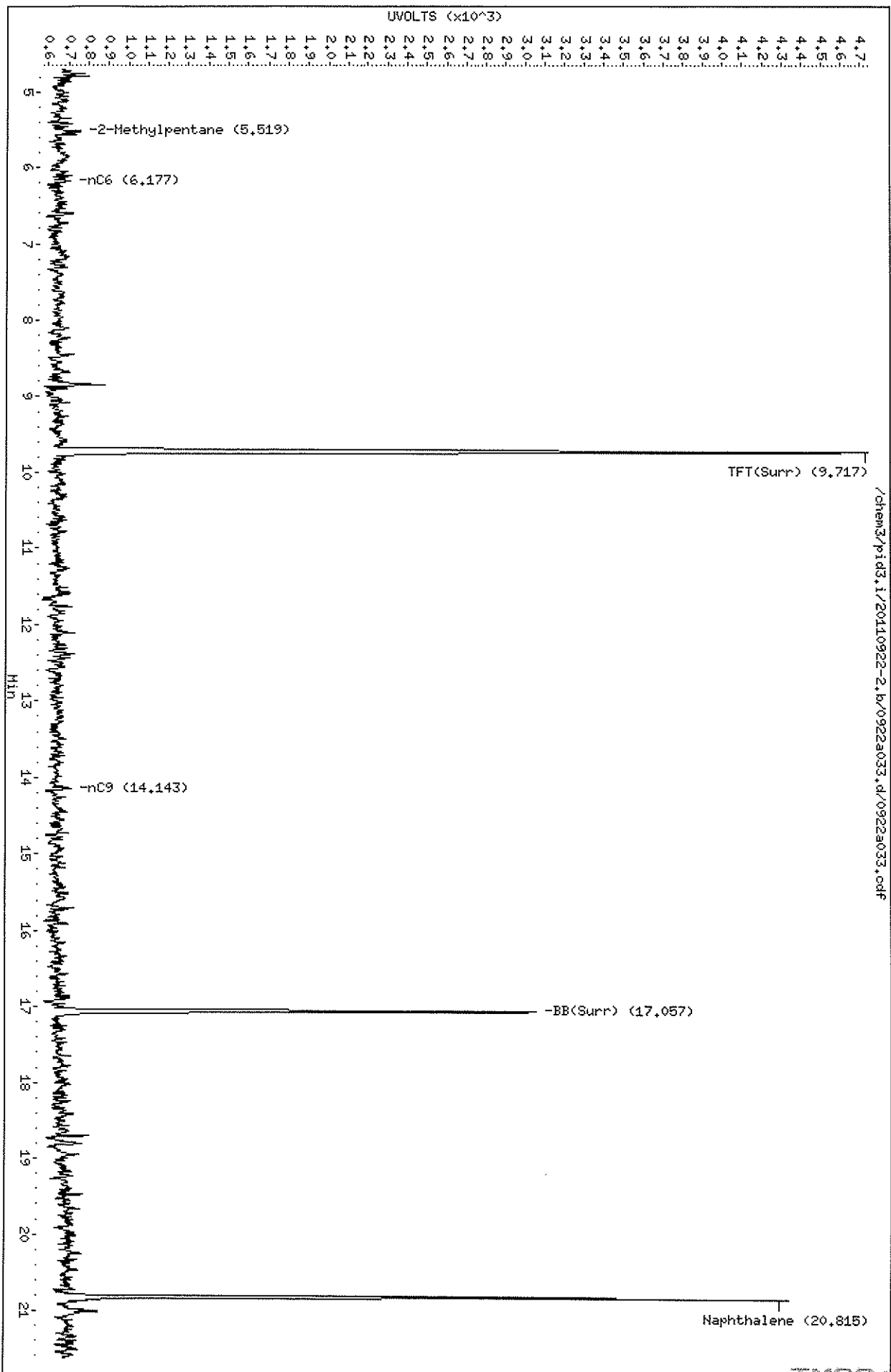
Instrument: pid3.i

Operator: MH

Column diameter: 0.18

Column phase: RTX 602-2 FID

Page 1



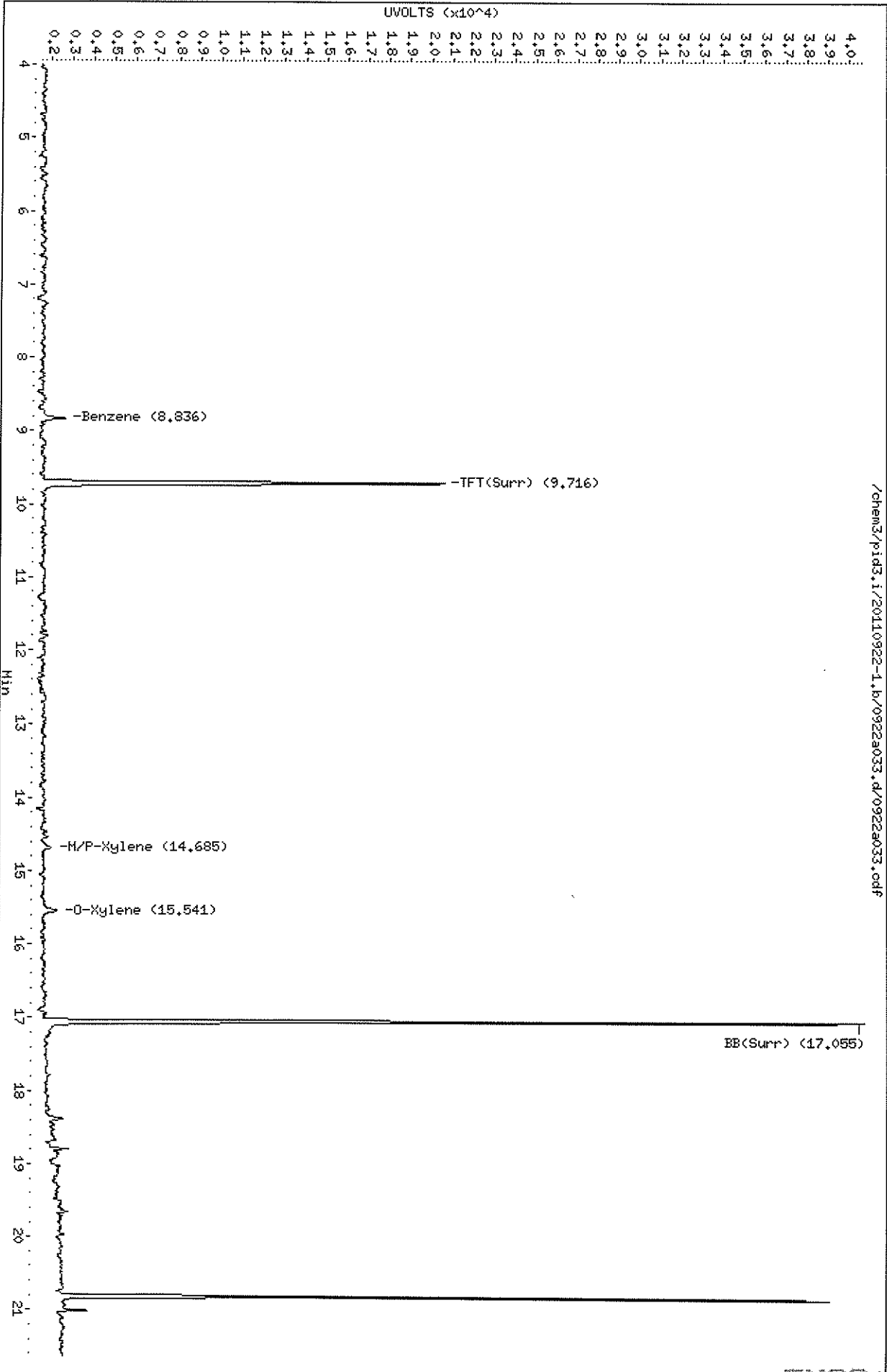
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Data File: /chem3/pid3.i/20110922-1.b/09222a033.d
Date: 22-SEP-2011 19:56
Client ID: KJ-BI8-4
Sample Info: THE2R

Column phase: RTX 502-2 PID

/chem3/pid3.i/20110922-1.b/09222a033.d/09222a033.cdf

Instrument: pid3.i
Operator: HH
Column diameter: 0.18



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Sample ID: KJ-B19-5
 SAMPLE

Lab Sample ID: TM62S
 LIMS ID: 11-20237
 Matrix: Soil
 Data Release Authorized: *WVW*
 Reported: 09/29/11

QC Report No: TM62-Kennedy Jenks Consultants
 Project: Ecology Cornet Bay
 Event: NA
 Date Sampled: 09/13/11
 Date Received: 09/16/11

Date Analyzed: 09/23/11 04:00
 Instrument/Analyst: PID3/MH

Purge Volume: 5.0 mL
 Sample Amount: 0.80 mg-dry-wt
 Percent Moisture: 16.0%

CAS Number	Analyte	RL	Result	
71-43-2	Benzene	1,600	54,000	
108-88-3	Toluene	1,600	420,000	
100-41-4	Ethylbenzene	1,600	96,000	
179601-23-1	m,p-Xylene	3,100	380,000	
95-47-6	o-Xylene	1,600	140,000	
	Gasoline Range Hydrocarbons	620	9,400	GAS ID GAS
BETX Surrogate Recovery				
	Trifluorotoluene	98.3%		
	Bromobenzene	95.6%		
Gasoline Surrogate Recovery				
	Trifluorotoluene	101%		
	Bromobenzene	102%		

BETX values reported in µg/kg (ppb)
 Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

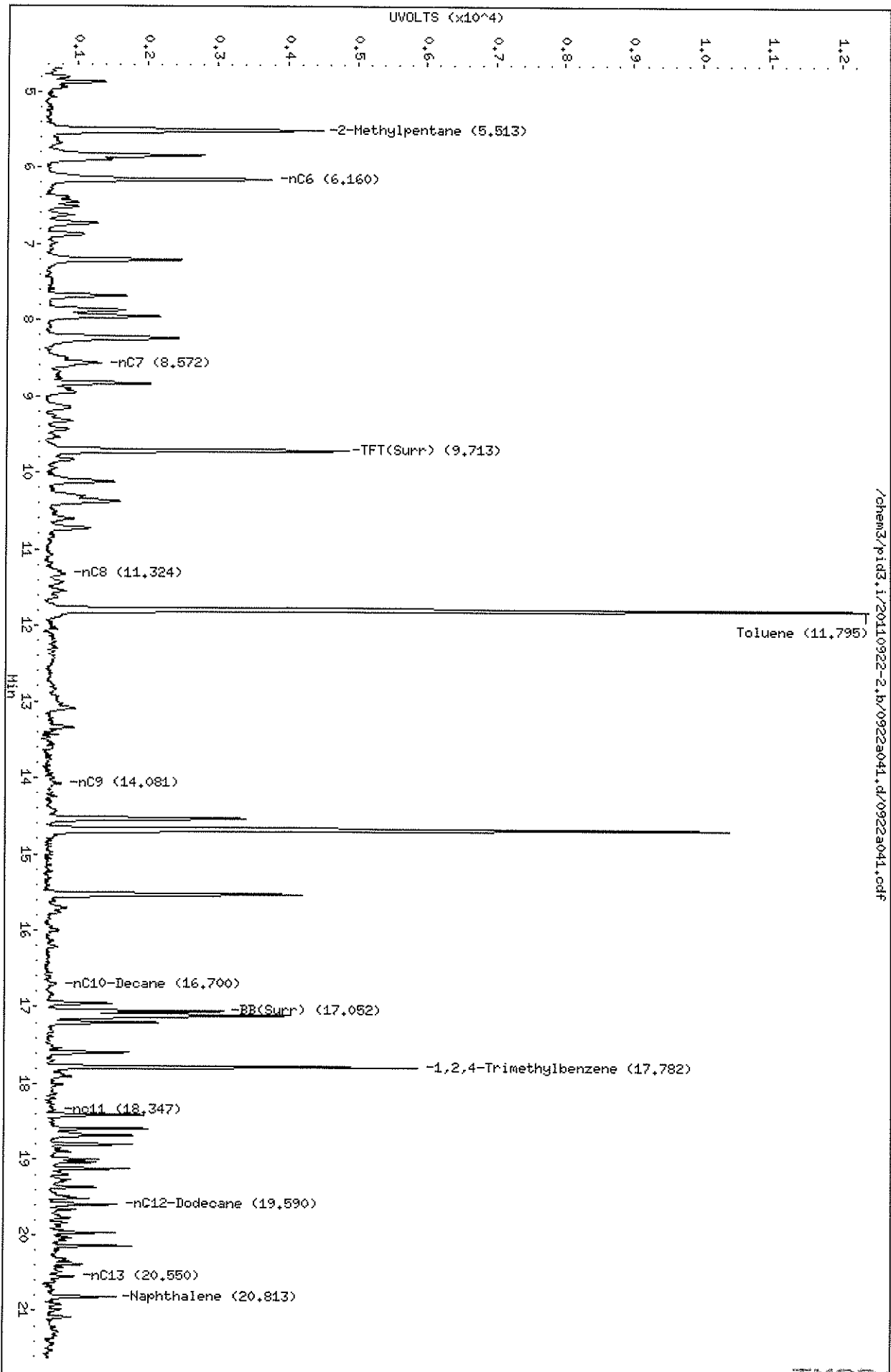
Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

Data File: /chem3/pid3.i/20110922-2.b/0922a041.d
Date: 23-SEP-2011 04:00
Client ID: KJ-R19-5
Sample Info: TM2S

Column phase: RTX 502-2 FID

Instrument: pid3.i
Operator: HH
Column diameter: 0.18



/chem3/pid3.i/20110922-2.b/0922a041.d/0922a041.cdf

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Data File: /chem3/pid3.i/20110922-1.b/0922a041.d

Date: 23-SEP-2011 04:00

Client ID:

Sample Info: TH62S

Instrument: pid3.i

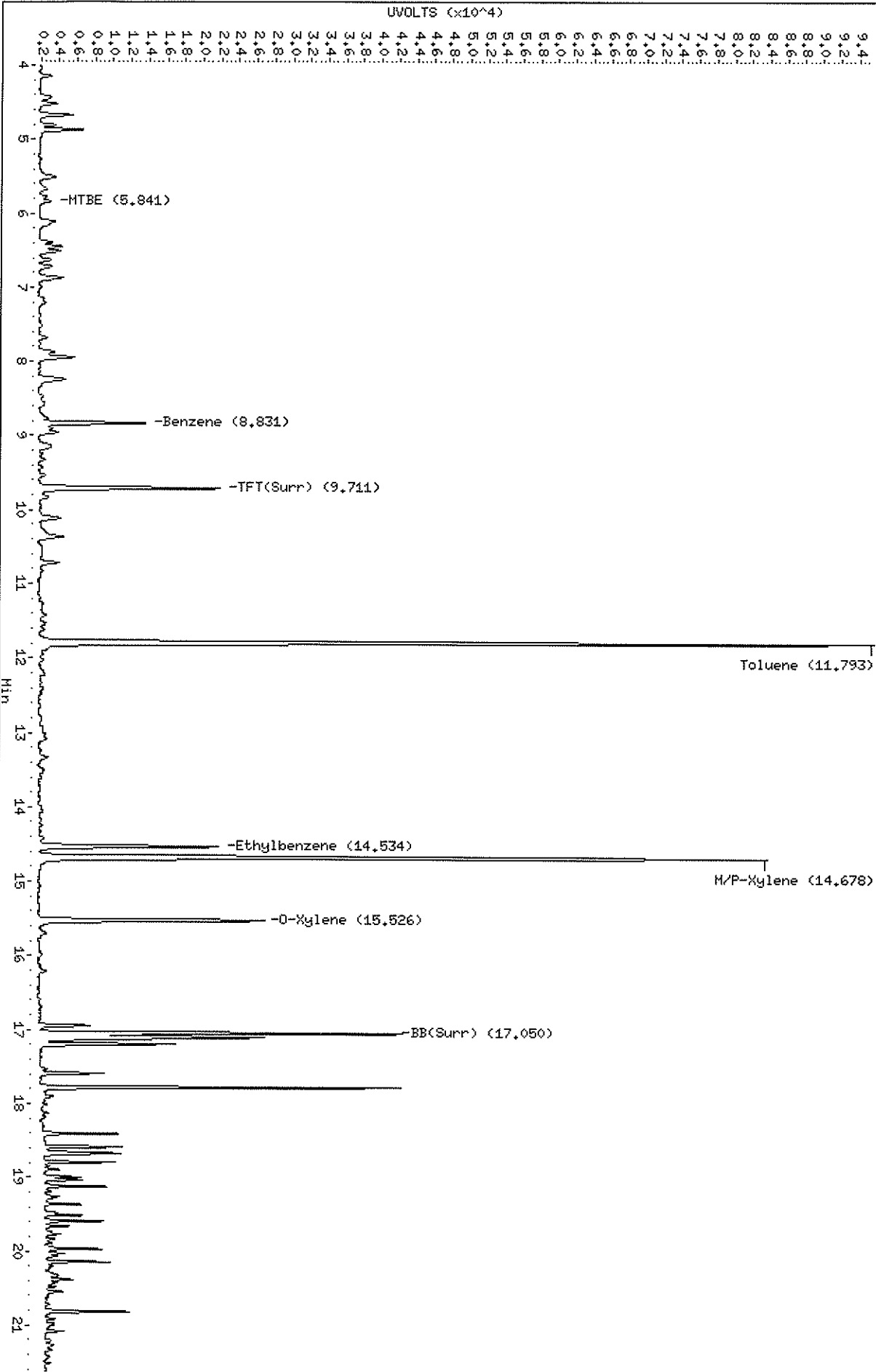
Operator: HH

Column diameter: 0.18

Column phase: RTX 502-2 PID

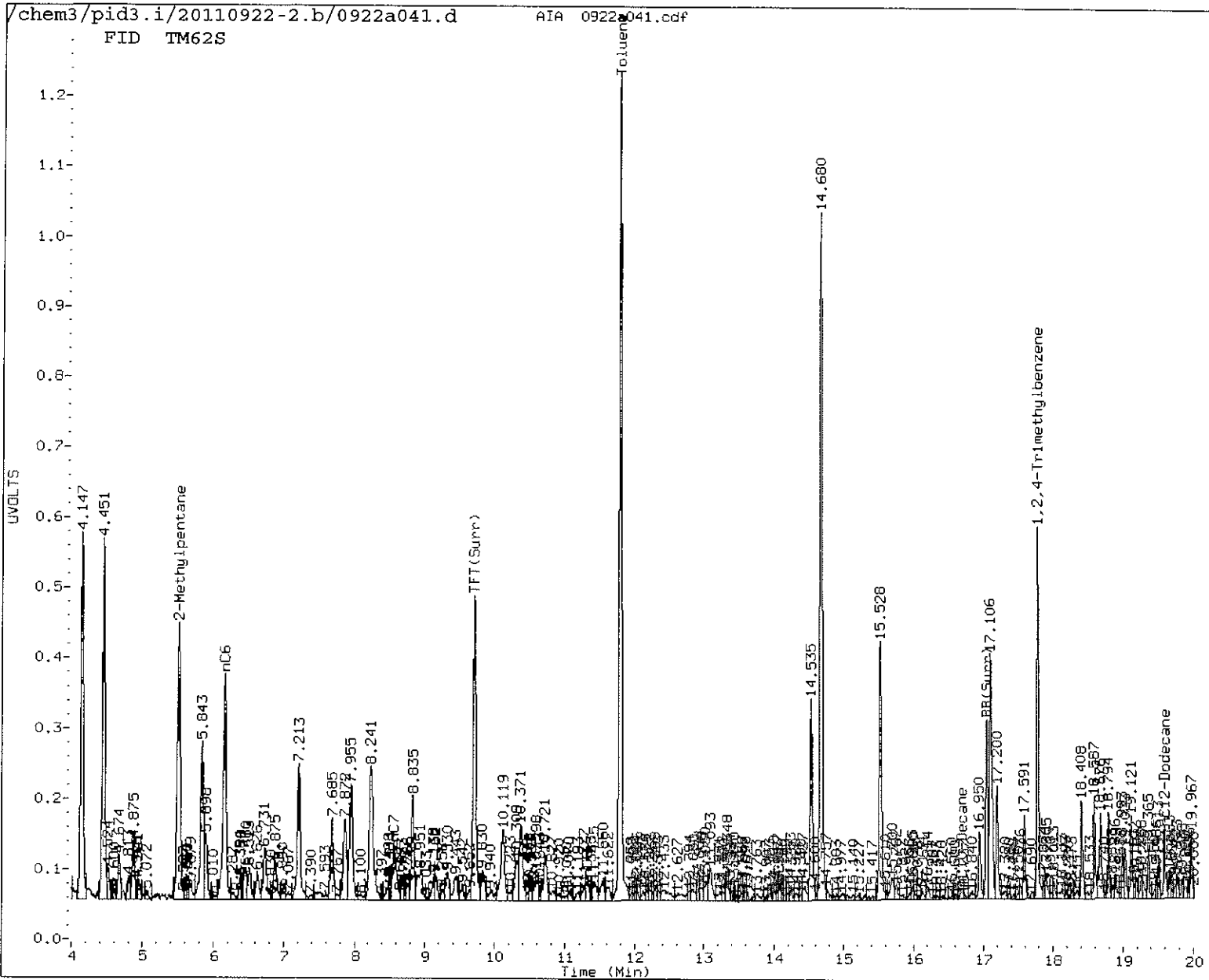
/chem3/pid3.i/20110922-1.b/0922a041.d/0922a041.cdf

Page 1



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0400
TH62S

FID TM62S



MANUAL INTEGRATION

- Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: MH Date: 9/29/11

ORGANICS ANALYSIS DATA SHEET
 BETX by Method SW8021BMod
 TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: KJ-B7-8
 SAMPLE



Lab Sample ID: TM62T
 LIMS ID: 11-20238
 Matrix: Soil
 Data Release Authorized: *YMW*
 Reported: 09/29/11

QC Report No: TM62-Kennedy Jenks Consultants
 Project: Ecology Cornet Bay
 Event: NA
 Date Sampled: 09/12/11
 Date Received: 09/16/11

Date Analyzed: 09/23/11 04:52
 Instrument/Analyst: PID3/MH

Purge Volume: 5.0 mL
 Sample Amount: 71 mg-dry-wt
 Percent Moisture: 19.4%

CAS Number	Analyte	RL	Result
71-43-2	Benzene	18	290
108-88-3	Toluene	18	< 18 U
100-41-4	Ethylbenzene	18	150
179601-23-1	m,p-Xylene	35	88
95-47-6	o-Xylene	18	100

Gasoline Range Hydrocarbons	7.0	8.3	GAS ID GRO
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BETX Surrogate Recovery

Trifluorotoluene	98.1%
Bromobenzene	94.9%

Gasoline Surrogate Recovery

Trifluorotoluene	102%
Bromobenzene	96.1%

BETX values reported in µg/kg (ppb)
 Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

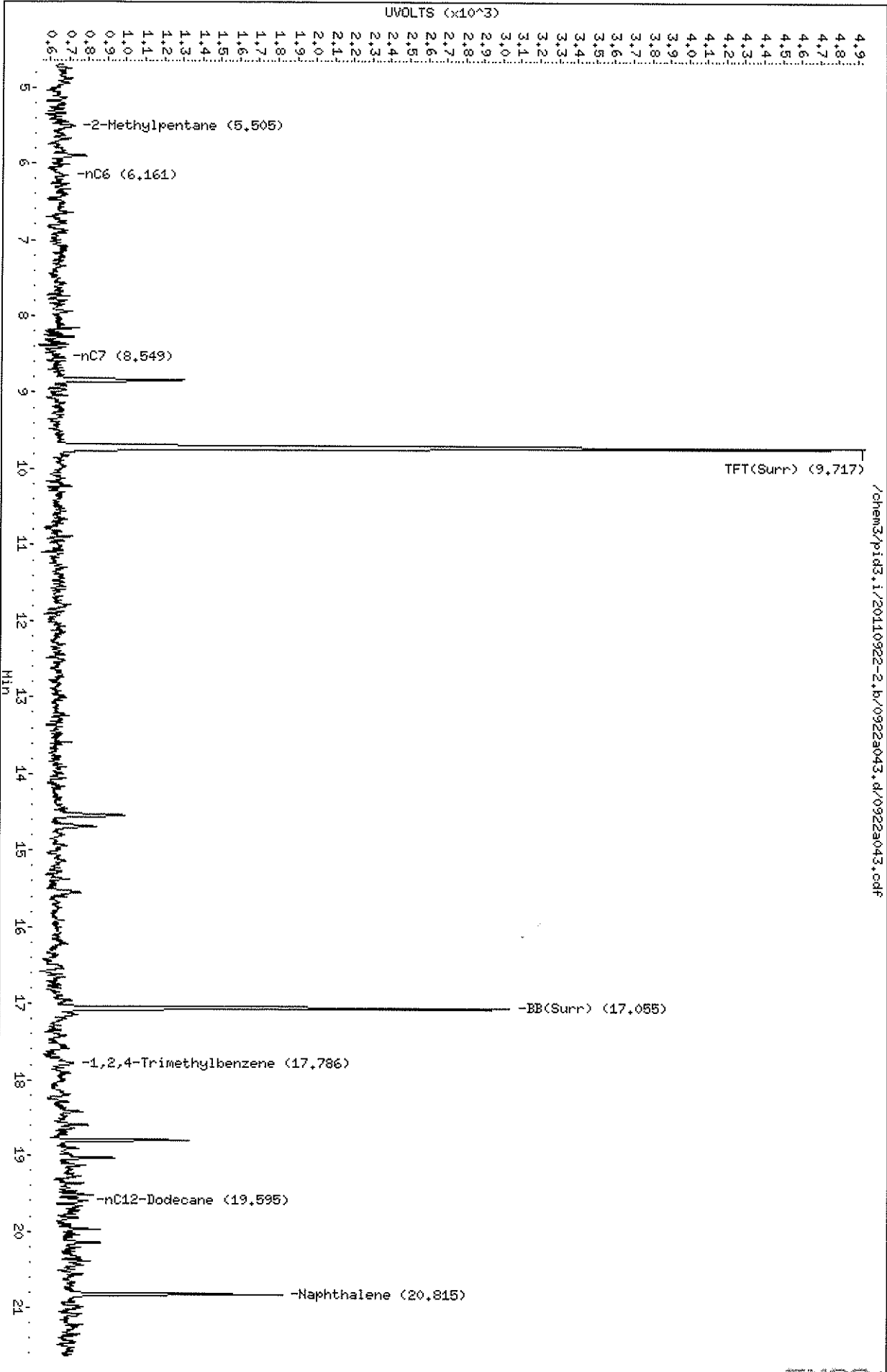
Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

Data File: /chem3/pid3.i/20110922-2.b/09222043.d
Date: 23-SEP-2011 04:52
Client ID: KJ-B7-8
Sample Info: TH62T

Column phase: RTX 502-2 FID

/chem3/pid3.i/20110922-2.b/09222043.d/09222043.cdf

Instrument: pid3.i
Operator: HH
Column diameter: 0.18



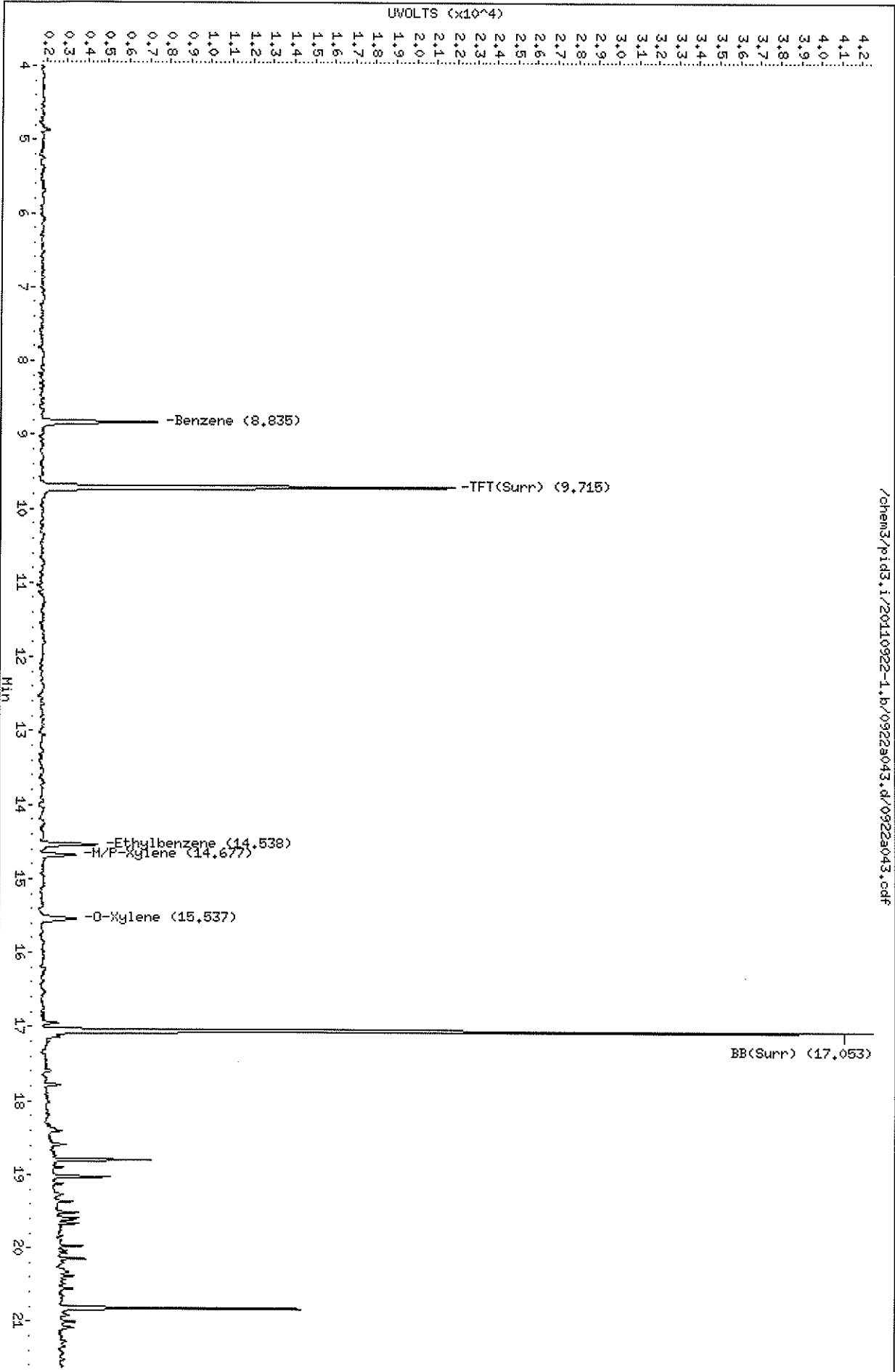
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Data File: /chem3/pid3.i/20110922-1.b/0922a043.d
Date: 23-SEP-2011 04:52
Client ID:
Sample Info: TH&T

Column phase: RTX 502-2 PID

/chem3/pid3.i/20110922-1.b/0922a043.d/0922a043.cdf

Instrument: pid3.i
Operator: MH
Column diameter: 0.18



TH&T 0922

TPHG SOIL SURROGATE RECOVERY SUMMARY

ARI Job: TM62
Matrix: Soil

QC Report No: TM62-Kennedy Jenks Consultants
Project: Ecology Cornet Bay
Event: NA

Client ID	BFB	TFT	BBZ	TOT	OUT
MB-092211	NA	94.6%	93.7%	0	
LCS-092211	NA	97.4%	95.4%	0	
LCS-092211	NA	98.2%	102%	0	
KJ-B1-4	NA	98.2%	101%	0	
KJ-B2-12	NA	103%	101%	0	
KJ-B3-9	NA	102%	103%	0	
KJ-B4-6	NA	102%	99.8%	0	
KJ-B5-4	NA	104%	103%	0	
KJ-B6-7	NA	100%	103%	0	
KJ-B7-13	NA	102%	103%	0	
KJ-B8-14	NA	102%	100%	0	
KJ-B9-13	NA	102%	98.4%	0	
KJ-B10-8	NA	103%	102%	0	
KJ-B11-5	NA	120%	150%*	1	
KJ-B11-5 DL	NA	104%	111%	0	
KJ-B12-6	NA	101%	99.0%	0	
KJ-B13-4	NA	102%	104%	0	
KJ-B14-3	NA	98.4%	98.2%	0	
KJ-B15-4	NA	101%	101%	0	
KJ-B16-4	NA	101%	102%	0	
KJ-B17-4	NA	96.5%	97.3%	0	
KJ-B18-4	NA	96.7%	98.4%	0	
KJ-B19-5	NA	101%	102%	0	
KJ-B7-8	NA	102%	96.1%	0	
KJ-B7-8 MS	NA	96.5%	101%	0	
KJ-B7-8 MSD	NA	97.3%	101%	0	

	LCS/MB LIMITS	QC LIMITS
(BFB) = Bromofluorobenzene	(70-130)	(70-130)
(TFT) = Trifluorotoluene	(80-120)	(66-123)
(BBZ) = Bromobenzene	(80-120)	(62-130)

Log Number Range: 11-20219 to 11-20238

BETX SOIL SURROGATE RECOVERY SUMMARY

ARI Job: TM62
Matrix: Soil

QC Report No: TM62-Kennedy Jenks Consultants
Project: Ecology Cornet Bay
Event: NA

<u>Client ID</u>	<u>TFT</u>	<u>BBZ</u>	<u>TOT OUT</u>
MB-092211	90.1%	87.6%	0
LCS-092211	95.8%	93.4%	0
LCS-092211	96.6%	95.0%	0
KJ-B1-4	94.2%	98.1%	0
KJ-B2-12	99.5%	96.8%	0
KJ-B3-9	99.3%	98.3%	0
KJ-B4-6	98.0%	97.5%	0
KJ-B5-4	100%	97.7%	0
KJ-B6-7	98.4%	95.5%	0
KJ-B7-13	99.1%	99.9%	0
KJ-B8-14	97.6%	96.4%	0
KJ-B9-13	97.2%	96.0%	0
KJ-B10-8	99.9%	101%	0
KJ-B11-5	111%	134%	0
KJ-B11-5 DL	101%	99.8%	0
KJ-B12-6	96.3%	92.9%	0
KJ-B13-4	100%	98.9%	0
KJ-B14-3	94.9%	94.2%	0
KJ-B15-4	97.6%	96.3%	0
KJ-B16-4	97.7%	96.0%	0
KJ-B17-4	93.4%	93.3%	0
KJ-B18-4	93.1%	92.5%	0
KJ-B19-5	98.3%	95.6%	0
KJ-B7-8	98.1%	94.9%	0
KJ-B7-8 MS	91.9%	94.2%	0
KJ-B7-8 MSD	93.9%	95.6%	0

	LCS/MB LIMITS	QC LIMITS
(TFT) = Trifluorotoluene	(80-120)	(68-124)
(BBZ) = Bromobenzene	(77-120)	(62-134)

Log Number Range: 11-20219 to 11-20238



ORGANICS ANALYSIS DATA SHEET

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: LCS-092211

LAB CONTROL SAMPLE

Lab Sample ID: LCS-092211

LIMS ID: 11-20219

Matrix: Soil

Data Release Authorized: *mm*

Reported: 09/29/11

QC Report No: TM62-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Event: NA

Date Sampled: NA

Date Received: NA

Date Analyzed LCS: 09/22/11 06:48

Purge Volume: 5.0 mL

LCSD: 09/22/11 07:15

Instrument/Analyst LCS: PID3/MH

Sample Amount LCS: 100 mg-dry-wt

LCSD: PID3/MH

LCSD: 100 mg-dry-wt

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Gasoline Range Hydrocarbons	54.2	50.0	108%	53.2	50.0	106%	1.9%

Reported in mg/kg (ppm)

RPD calculated using sample concentrations per SW846.

TPHG Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	97.4%	98.2%
Bromobenzene	95.4%	102%

Sample ID: LCS-092211
 LAB CONTROL SAMPLE

Lab Sample ID: LCS-092211
 LIMS ID: 11-20219
 Matrix: Soil
 Data Release Authorized: YW
 Reported: 09/29/11

QC Report No: TM62-Kennedy Jenks Consultants
 Project: Ecology Cornet Bay
 Event: NA
 Date Sampled: NA
 Date Received: NA

Date Analyzed LCS: 09/22/11 06:48
 LCSD: 09/22/11 07:15
 Instrument/Analyst LCS: PID3/MH
 LCSD: PID3/MH

Purge Volume: 5.0 mL
 Sample Amount LCS: 100 mg-dry-wt
 LCSD: 100 mg-dry-wt

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Benzene	170	185	91.9%	174	185	94.1%	2.3%
Toluene	1720	1820	94.5%	1720	1820	94.5%	0.0%
Ethylbenzene	497	535	92.9%	504	535	94.2%	1.4%
m,p-Xylene	1870	2000	93.5%	1900	2000	95.0%	1.6%
o-Xylene	856	905	94.6%	880	905	97.2%	2.8%

Reported in µg/kg (ppb)

RPD calculated using sample concentrations per SW846.

BETX Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	95.8%	96.6%
Bromobenzene	93.4%	95.0%

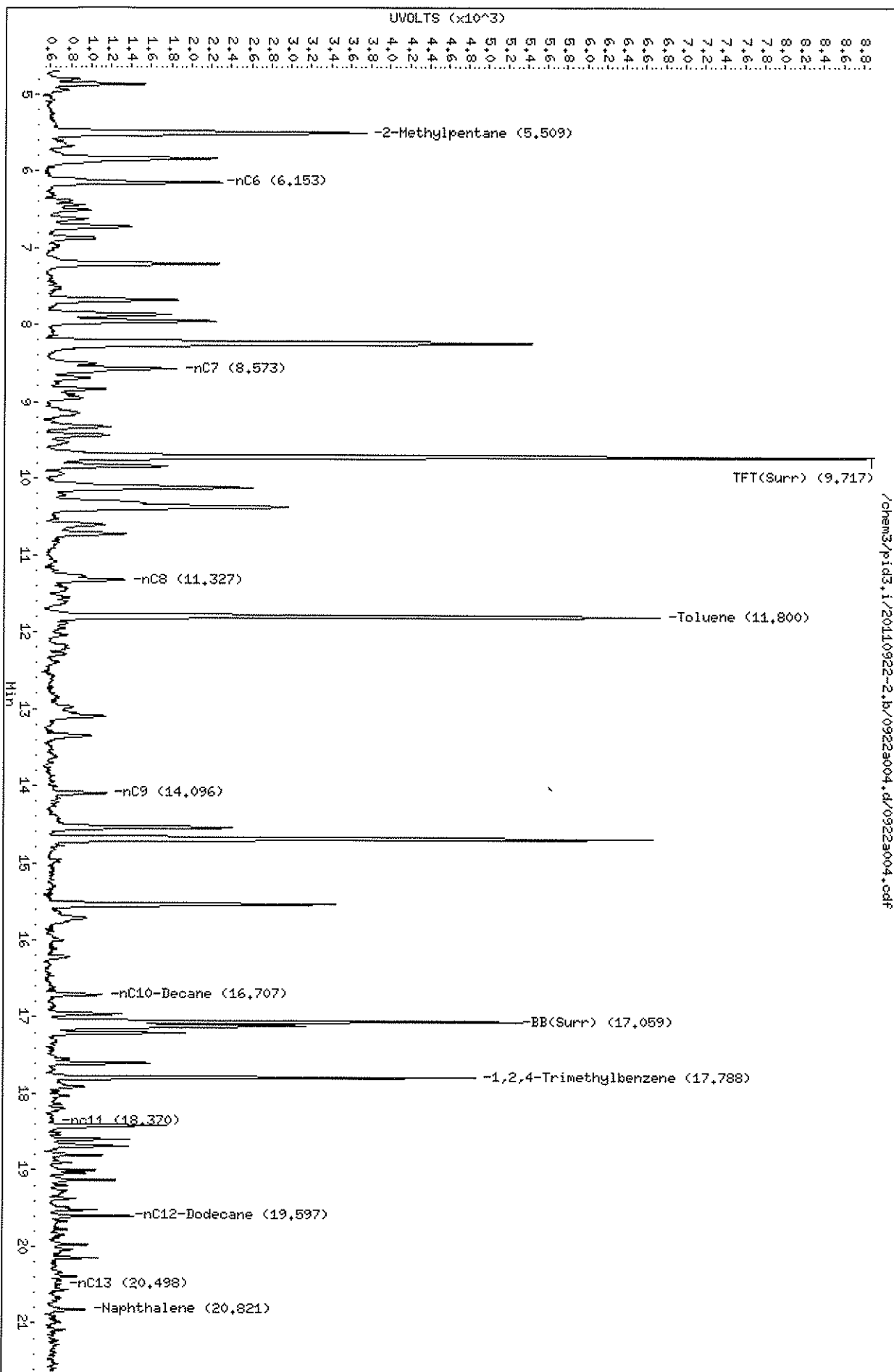
Data File: /chem3/pid3.i/20110922-2.b/0922a004.d
Date: 22-SEP-2011 06:48
Client ID:
Sample Info: LCS0921

Column phase: RTX 502-2 FID

/chem3/pid3.i/20110922-2.b/0922a004.d/0922a004.cdf

Instrument: pid3.i
Operator: MH
Column diameter: 0.18

Page 1



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Data File: /chem3/pid3.i/20110922-1.b/092223004.d
Date: 22-SEP-2011 06:48
Client ID:
Sample Info: LCS0921

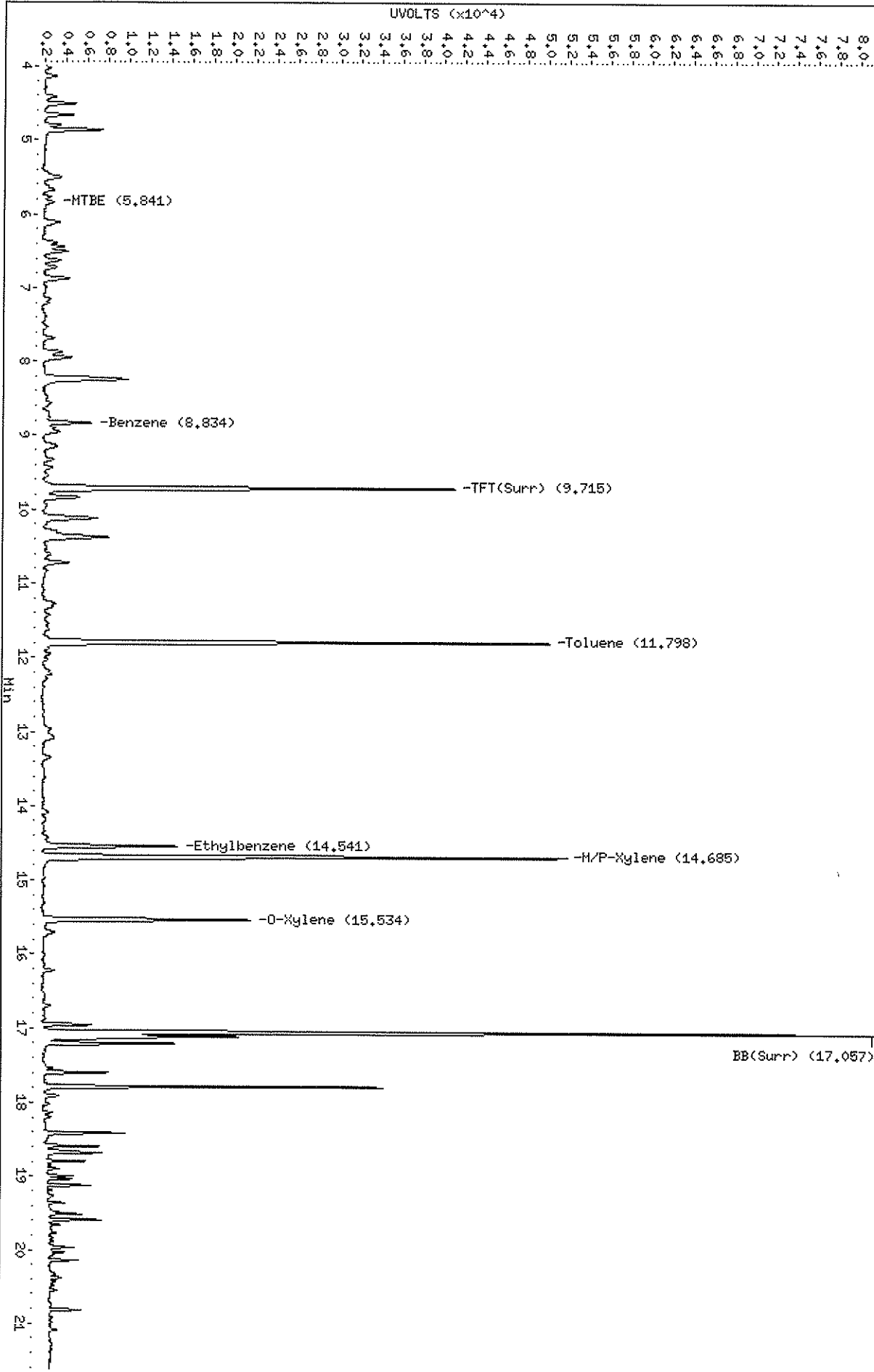
Instrument: pid3.i

Page 1

Column phase: RTX 502-2 PID

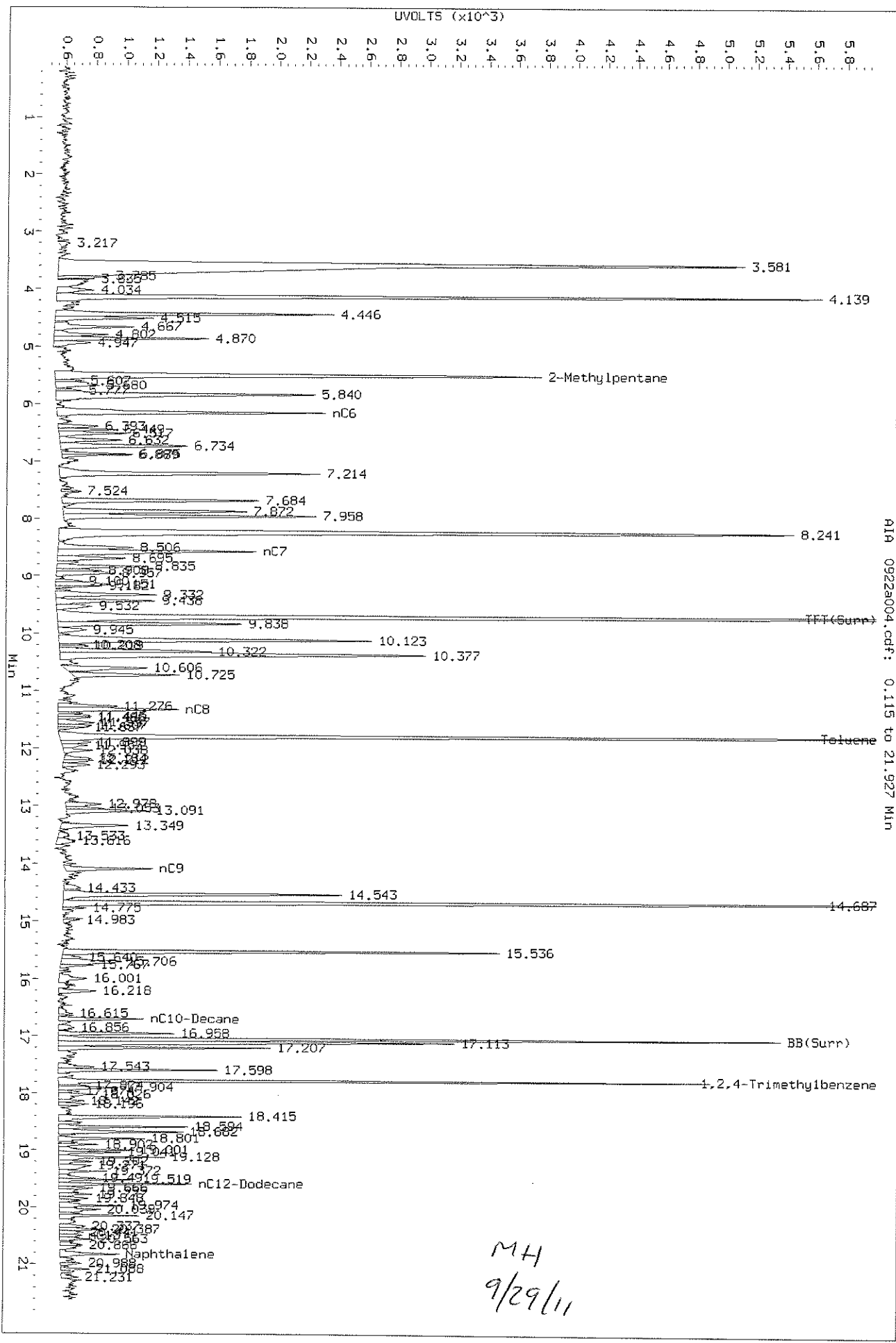
Operator: HH
Column diameter: 0.18

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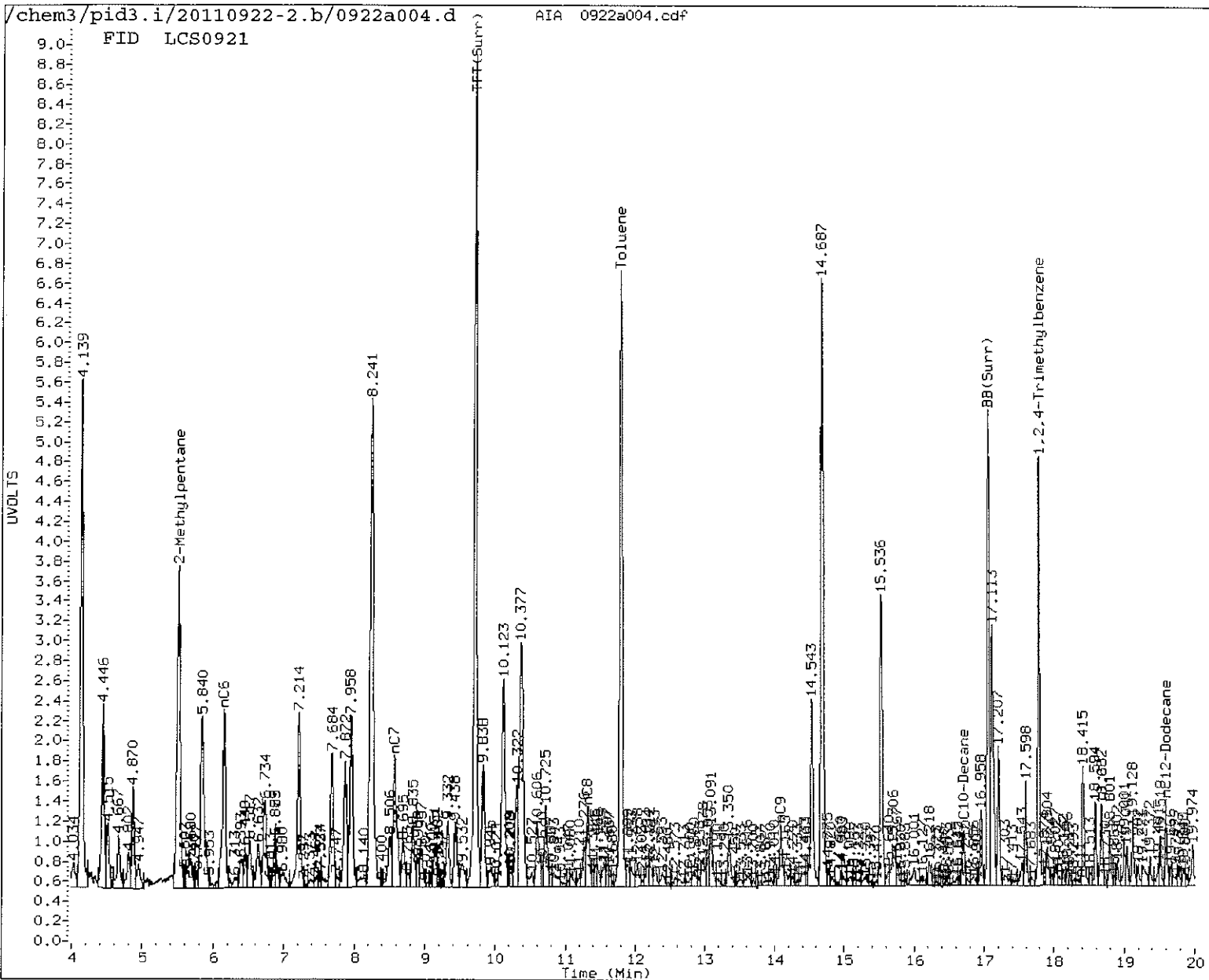
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Data File: /chem3/pid3.1/20110922-2.b/0922a004.d/0922a004.cdf
Injection Date: 22-SEP-2011 06:48
Instrument: pid3.1
Client Sample ID:



MH
9/29/11

FID LCS0921



MANUAL INTEGRATION

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

5. Other _____

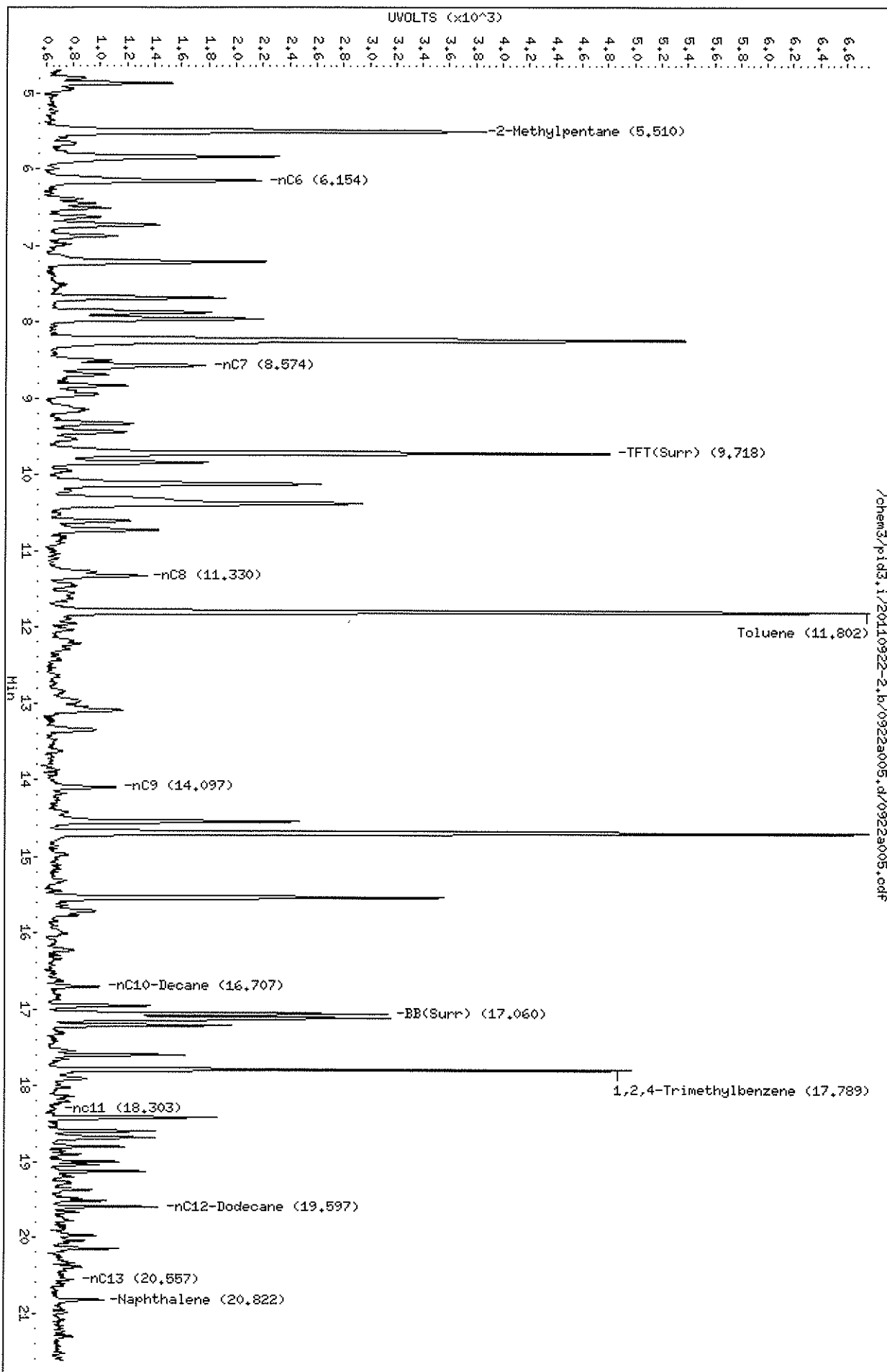
Analyst: MH

Date: 9/29/11

Data File: /chem3/pid3.i/20110922-2.b/0922a005.d
Date : 22-SEP-2011 07:15
Client ID:
Sample Info: LCSID0922

Column phase: RTX 502-2 FID

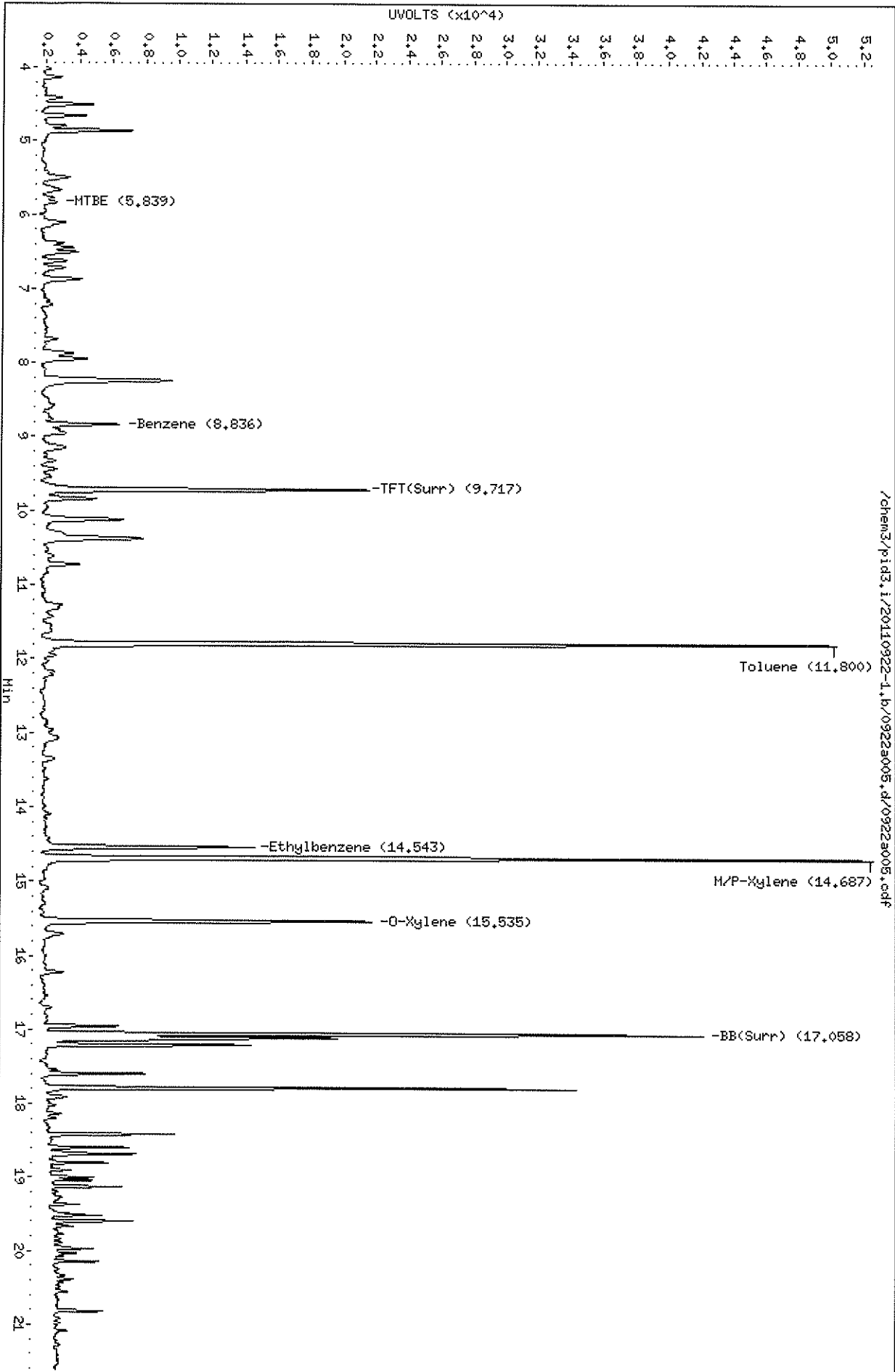
Instrument: pid3.i
Operator: HH
Column diameter: 0.18



Data File: /chem3/pid3.i/20110922-1.b/0922a005.d
Date: 22-SEP-2011 07:15
Client ID:
Sample Info: LCSD0922

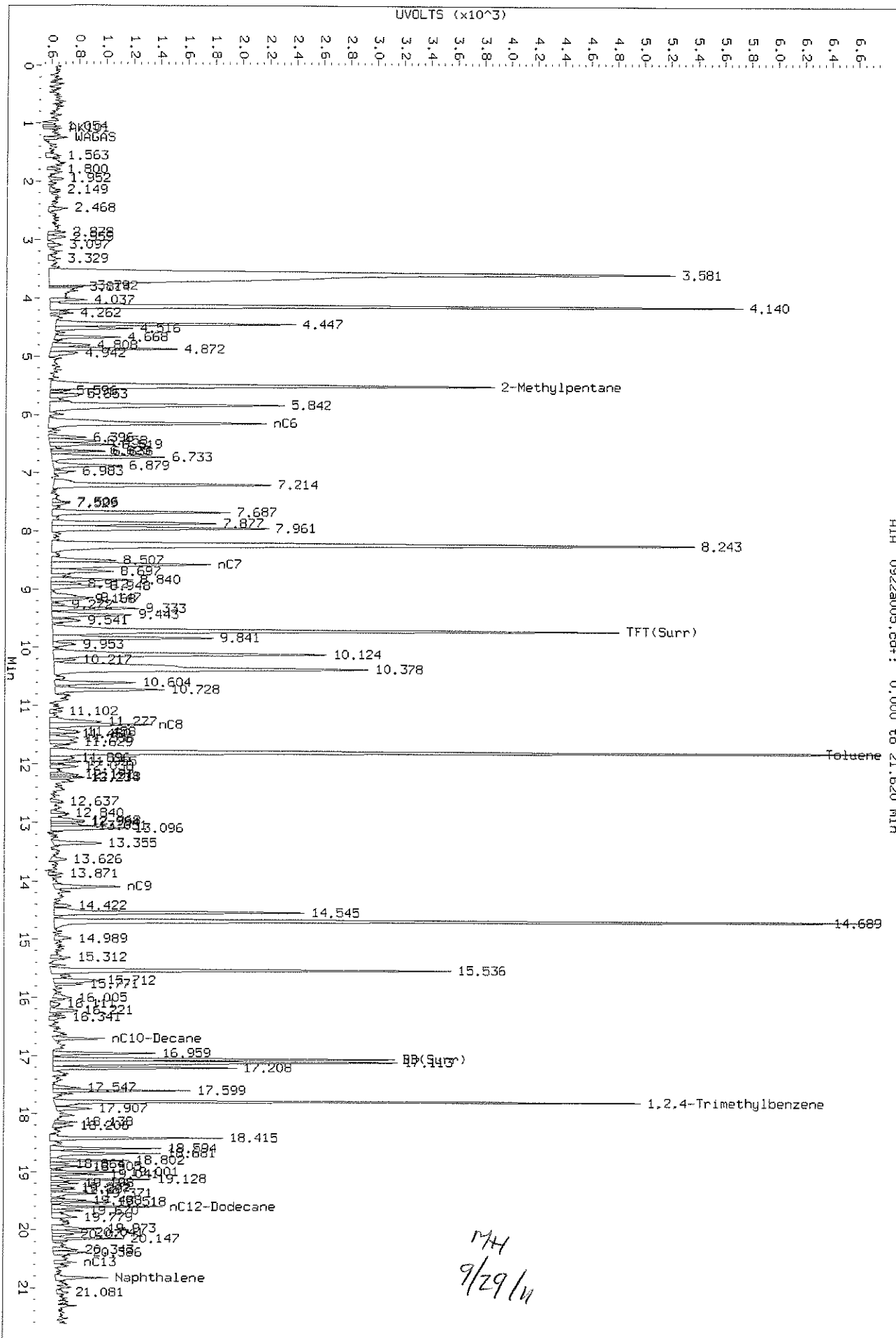
Column phase: RTX 502-2 PID

Instrument: pid3.i
Operator: HH
Column diameter: 0.18

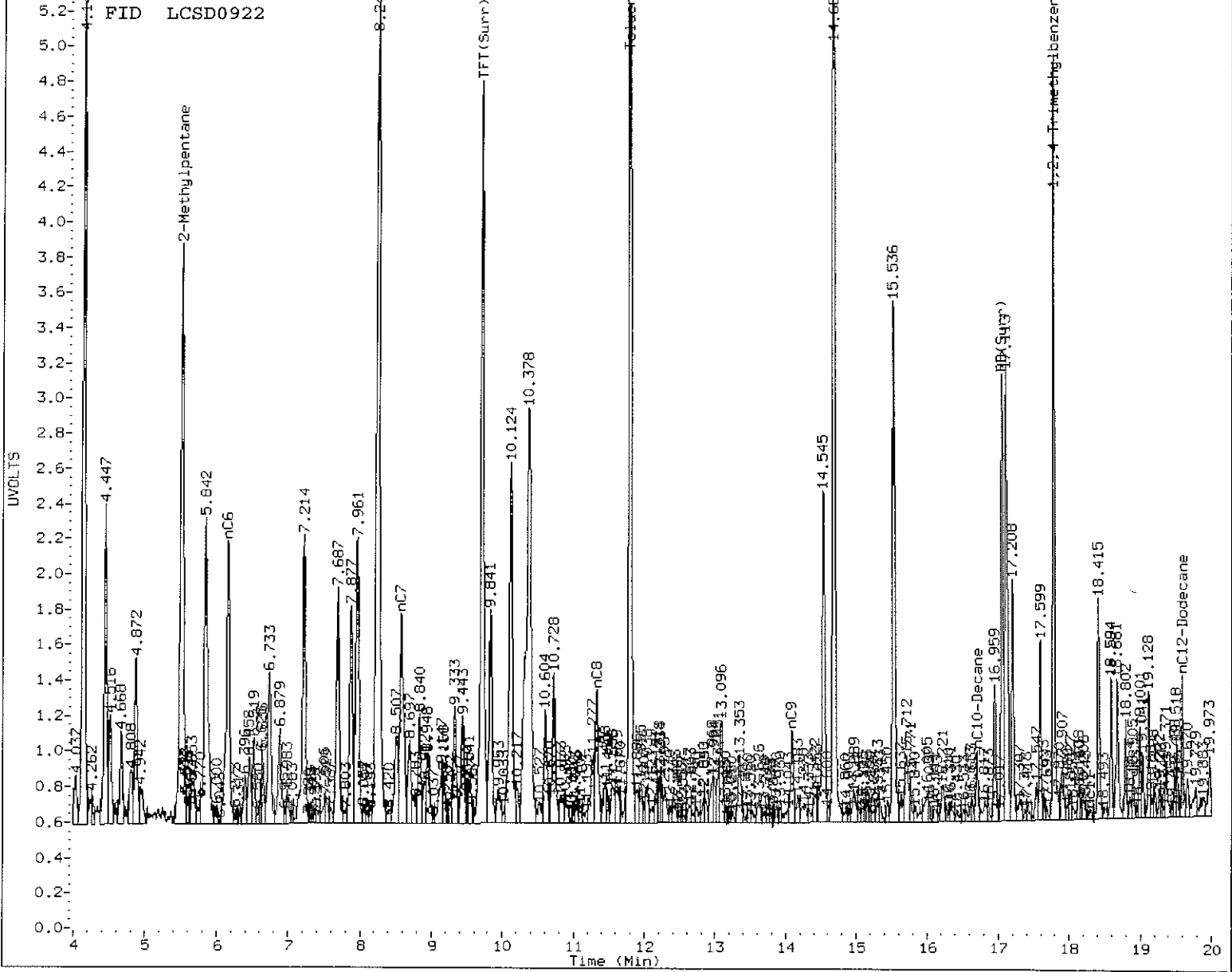


TK02: 09 21 09

Data File: /chem3/pid3.1/20110922-2.b/0922a005.d/0922a005.cdf
Injection Date: 22-SEP-2011 07:15
Instrument: pid3.1
Client Sample ID:



AIA 0922a005.cdf: 0.000 to 21.620 MIN



MANUAL INTEGRATION

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: MH

Date: 9/29/14

ORGANICS ANALYSIS DATA SHEET

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: KJ-B7-8

MATRIX SPIKE

Lab Sample ID: TM62T

LIMS ID: 11-20238

Matrix: Soil

Data Release Authorized: *MM*

Reported: 09/29/11

QC Report No: TM62-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Event: NA

Date Sampled: 09/12/11

Date Received: 09/16/11

Date Analyzed MS: 09/22/11 21:14

MSD: 09/22/11 21:41

Instrument/Analyst MS: PID3/MH

MSD: PID3/MH

Purge Volume: 5.0 mL

Sample Amount MS: 71.3 mg-dry-wt

MSD: 71.3 mg-dry-wt

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Gasoline Range Hydrocarbons	8.27	77.9	70.1	99.3%	82.0	70.1	105%	5.1%

Reported in mg/kg (ppm)

RPD calculated using sample concentrations per SW846.

TPHG Surrogate Recovery

	MS	MSD
Trifluorotoluene	96.5%	97.3%
Bromobenzene	101%	101%

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod
Page 1 of 1

Sample ID: KJ-B7-8
MATRIX SPIKE

Lab Sample ID: TM62T
LIMS ID: 11-20238
Matrix: Soil
Data Release Authorized: *mw*
Reported: 09/29/11

QC Report No: TM62-Kennedy Jenks Consultants
Project: Ecology Cornet Bay
Event: NA
Date Sampled: 09/12/11
Date Received: 09/16/11

Date Analyzed MS: 09/22/11 21:14
MSD: 09/22/11 21:41
Instrument/Analyst MS: PID3/MH
MSD: PID3/MH

Purge Volume: 5.0 mL
Sample Amount MS: 71.3 mg-dry-wt
MSD: 71.3 mg-dry-wt

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Benzene	287	429	259	54.8%	468	259	69.9%	8.7%
Toluene	< 17.5 U	2200	2560	85.9%	2340	2560	91.4%	6.2%
Ethylbenzene	149	730	750	77.5%	794	750	86.0%	8.4%
m,p-Xylene	87.6	2490	2810	85.5%	2650	2810	91.2%	6.2%
o-Xylene	104	1380	1270	100%	1410	1270	103%	2.2%

Reported in µg/kg (ppb)

RPD calculated using sample concentrations per SW846.

BETX Surrogate Recovery

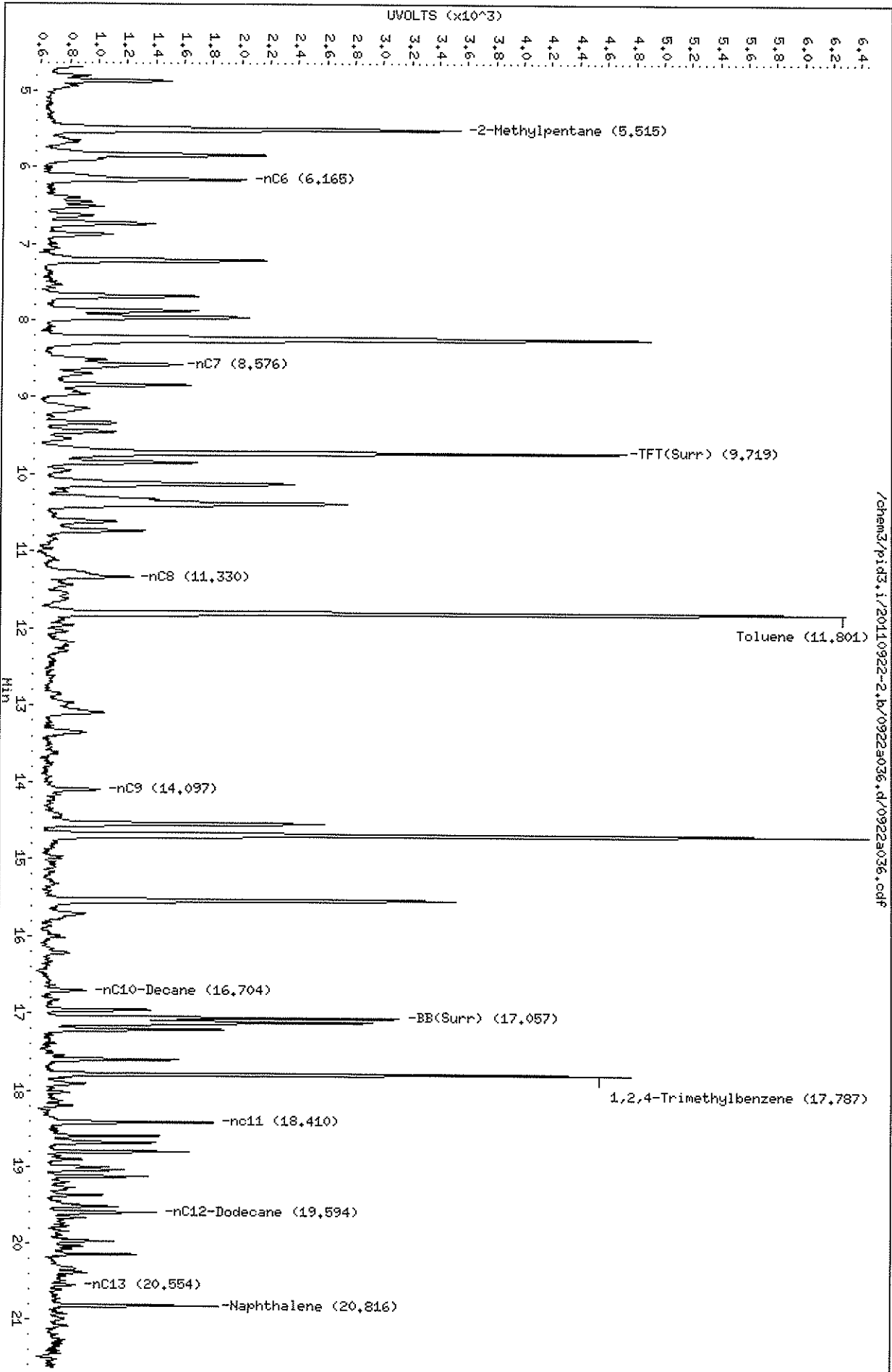
	MS	MSD
Trifluorotoluene	91.9%	93.9%
Bromobenzene	94.2%	95.6%

Data File: /chem3/pid3.i/20110922-2.k/0922a036.d
Date: 22-SEP-2011 21:14
Client ID:
Sample Info: TH2THS

Column phase: RTX 502-2 FID

/chem3/pid3.i/20110922-2.k/0922a036.d/0922a036.cdf

Instrument: pid3.i
Operator: NH
Column diameter: 0.18



0922a036.cdf

Data File: /chem3/pid3.i/20110922-1.h/0922a036.d
Date: 22-SEP-2011 21:14
Client ID:
Sample Info: TH62TMS

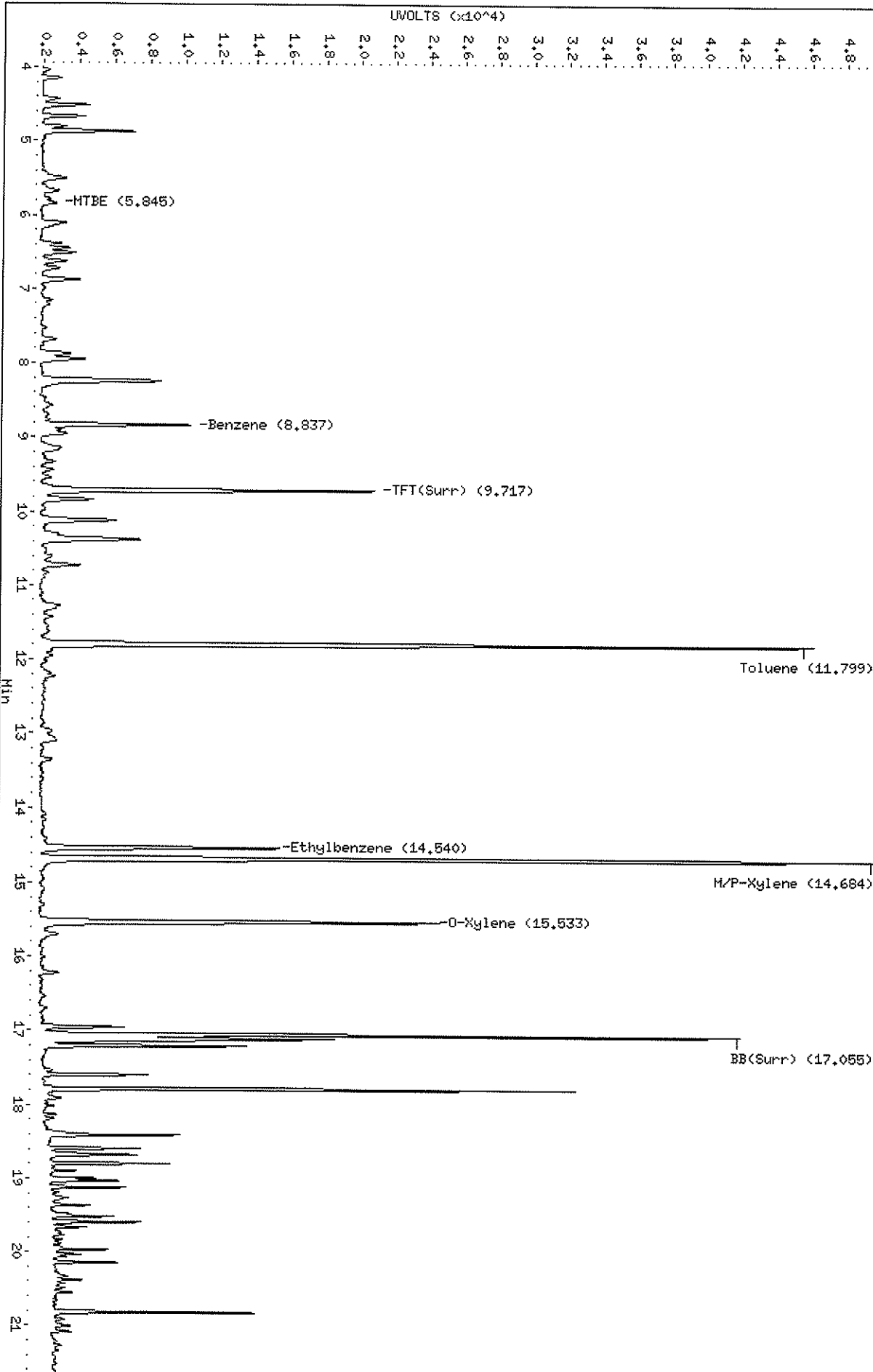
Instrument: pid3.i

Page 1

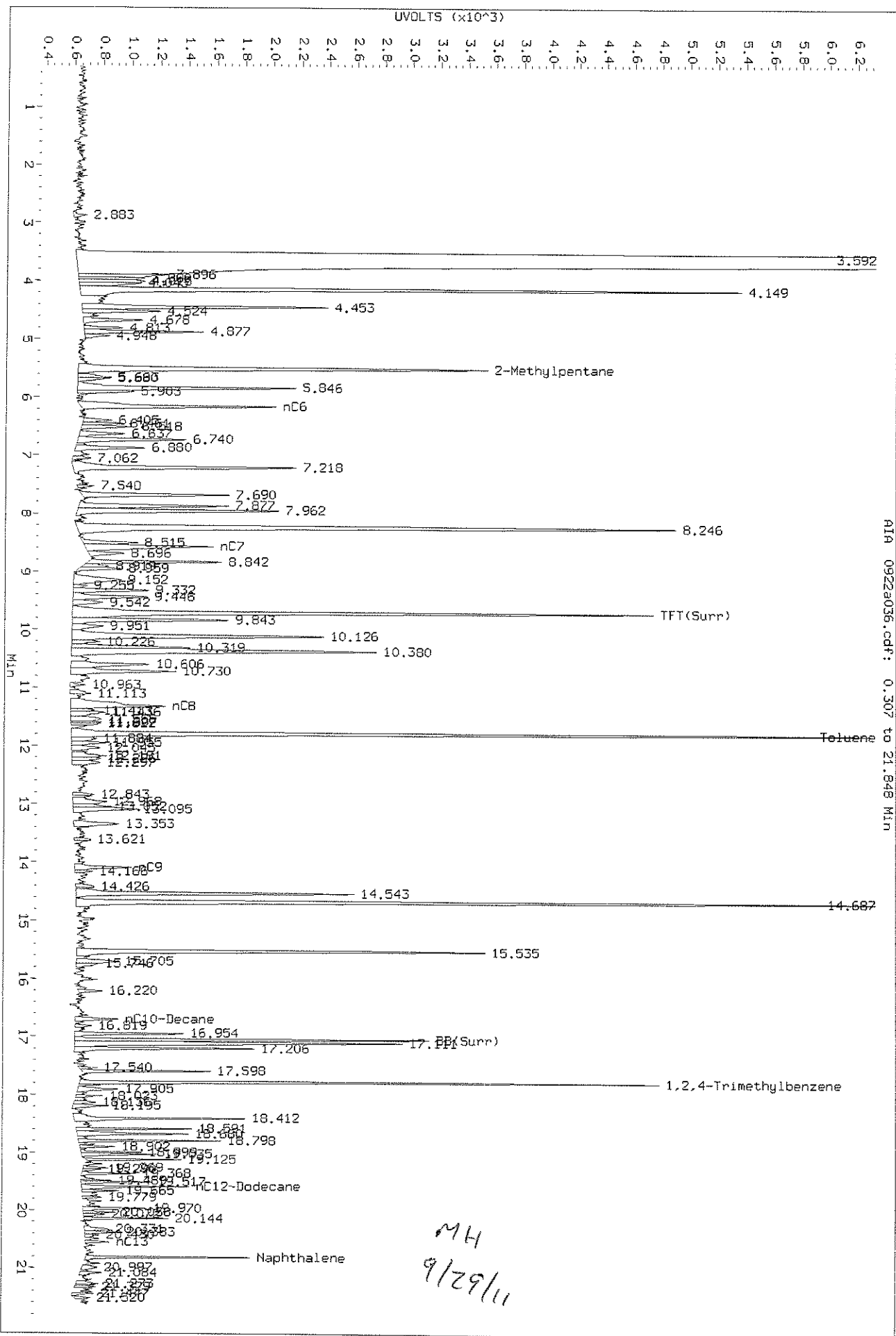
Column phase: RTX 502-2 PID

Operator: HH
Column diameter: 0.18

/chem3/pid3.i/20110922-1.h/0922a036.d/0922a036.cdf



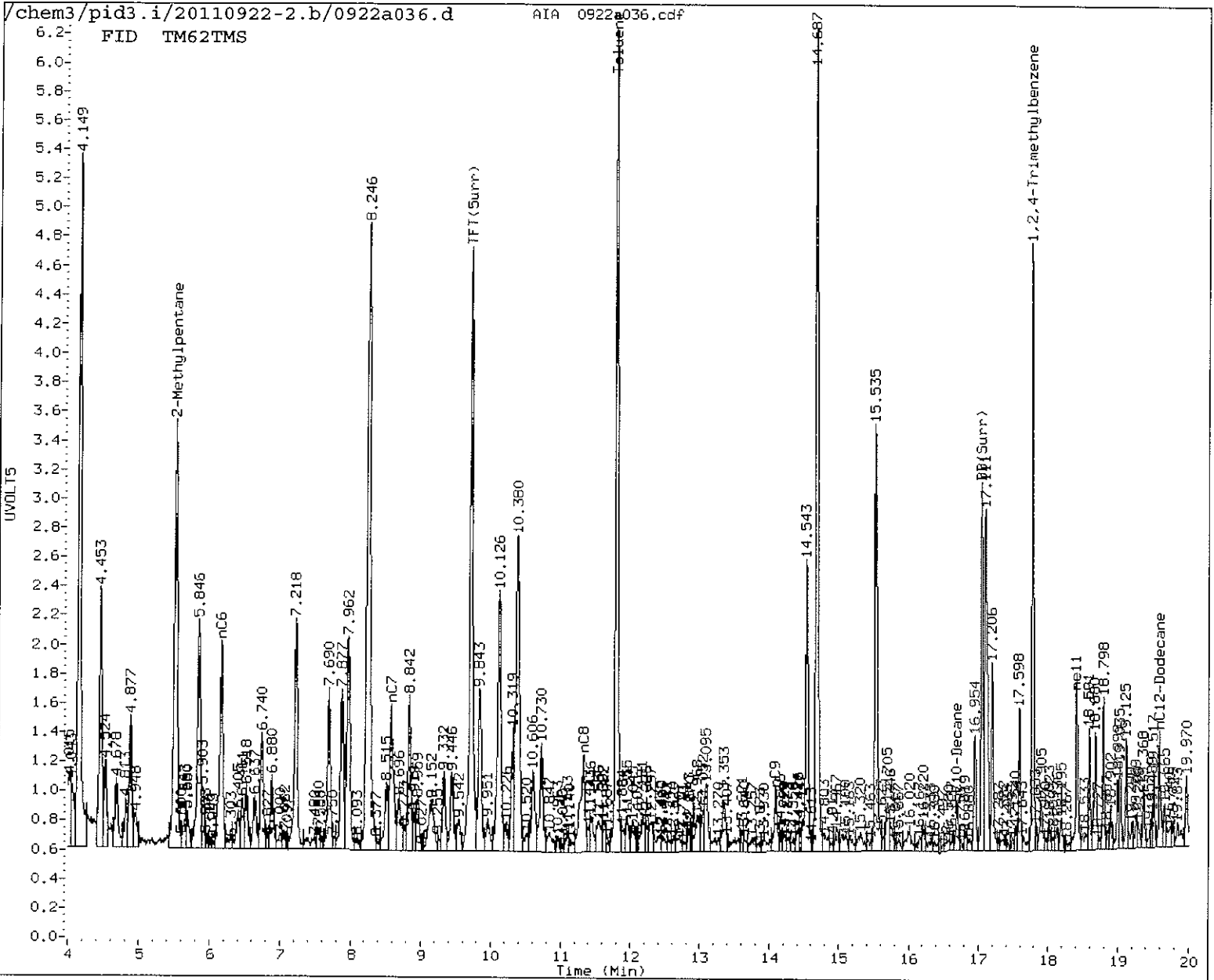
Data File: /chem3/pid3.1/20110922-2.b/0922a036.d/0922a036.cdf
Injection Date: 22-SEP-2011 21:14
Instrument: pid3.1
Client Sample ID:



AIA 0922a036.cdf: 0.307 to 21.848 Min

MH
9/29/11

FID TM62TMS



MANUAL INTEGRATION

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

5. Other _____

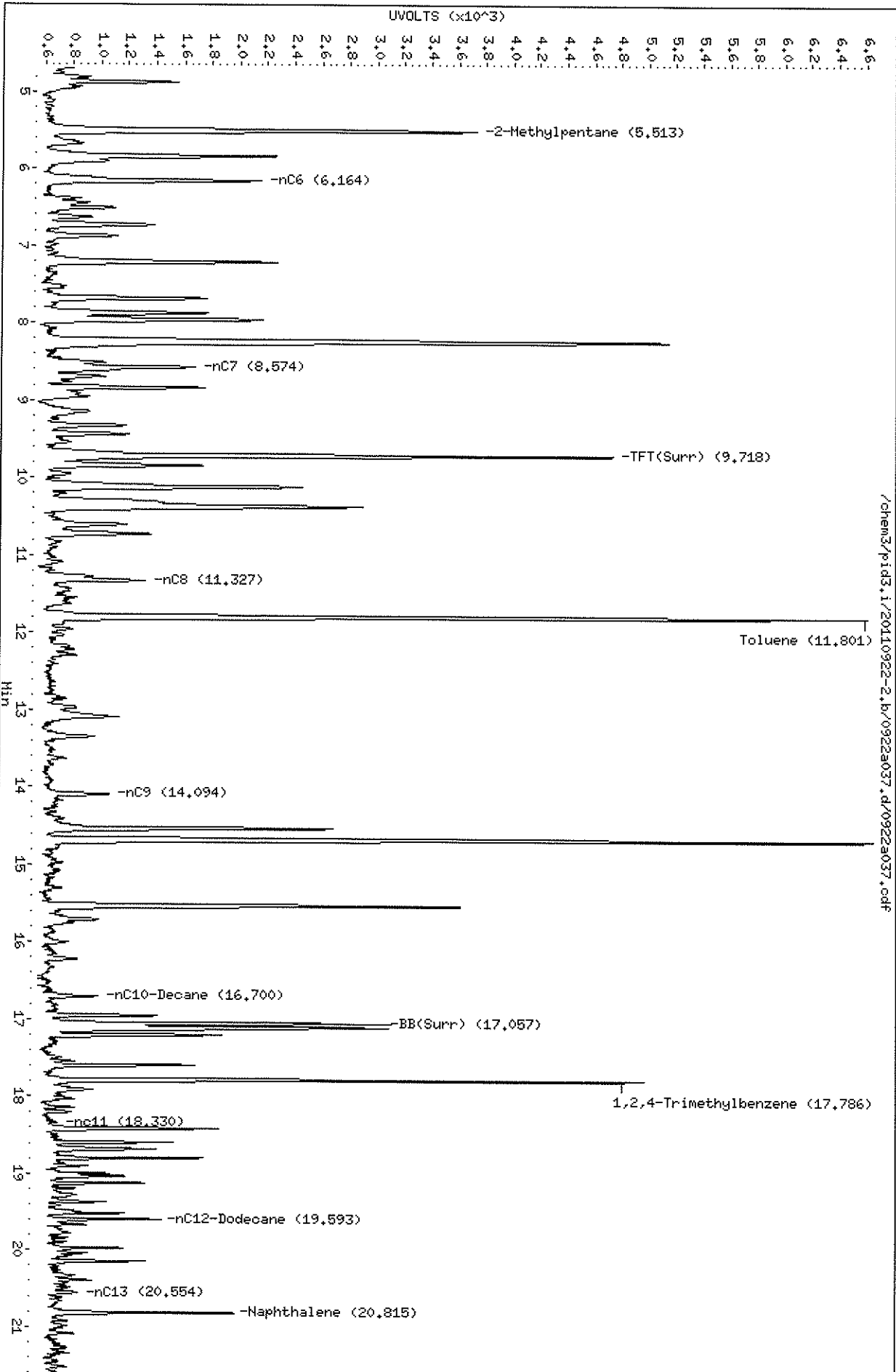
Analyst: MH

Date: 9/29/14

Data File: /chem3/pid3.i/20110922-2.b/0922a037.d
Date: 22-SEP-2011 21:41
Client ID:
Sample Info: TMS2TMSD

Column Phase: RTX 502-2 FID

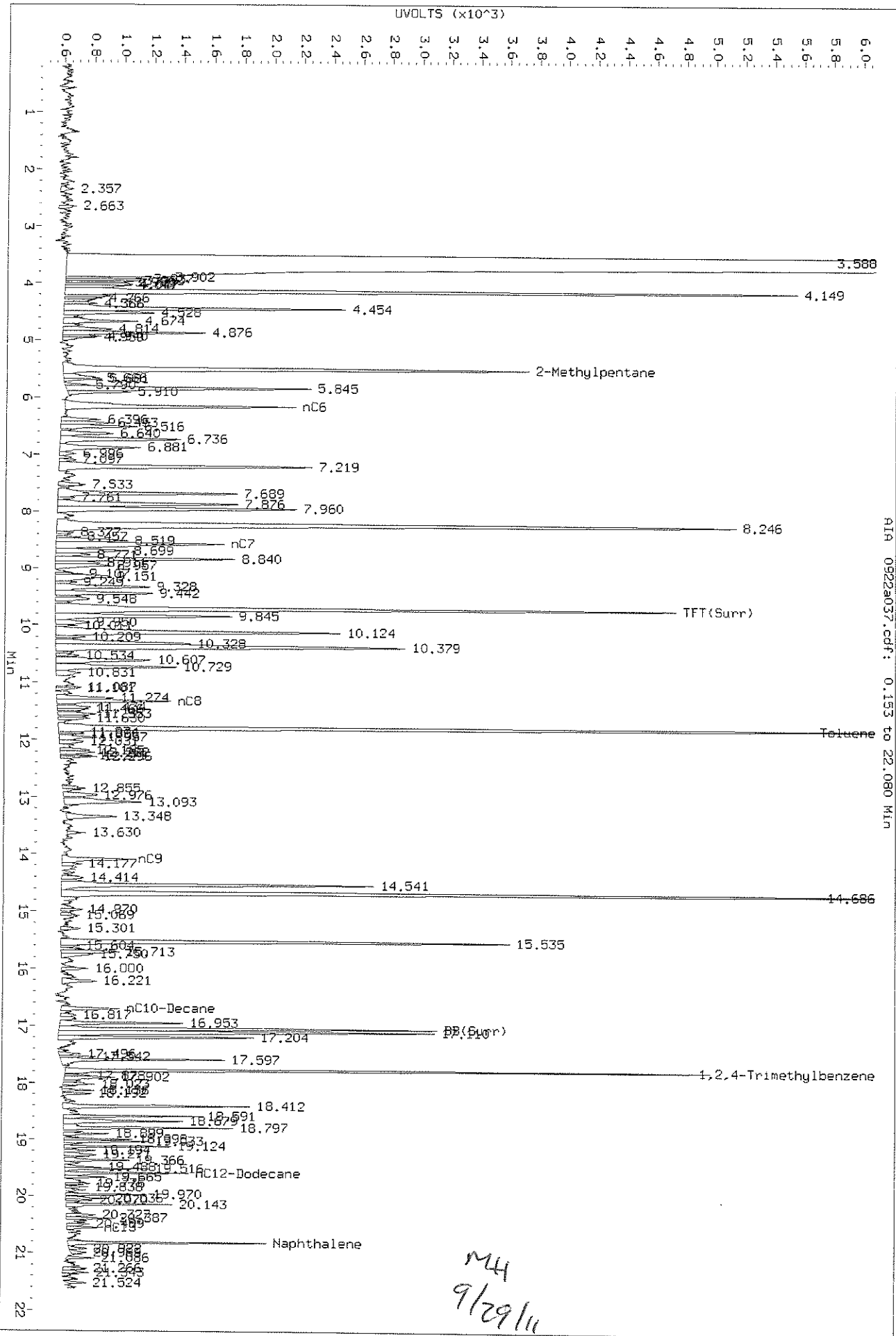
Instrument: pid3.i
Operator: MH
Column diameter: 0.18



/chem3/pid3.i/20110922-2.b/0922a037.d/0922a037.cdf

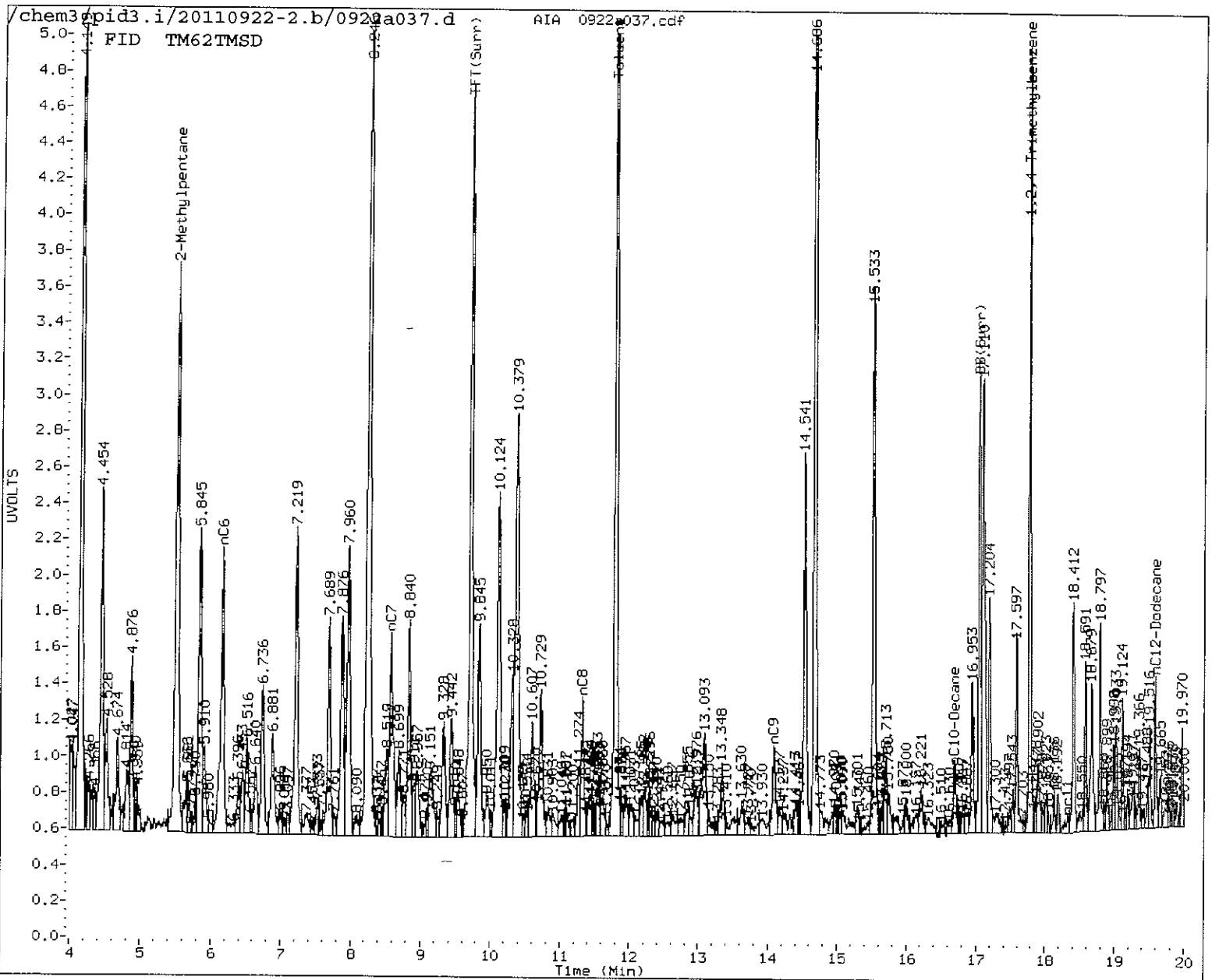
TMS2TMSD 0922a037.d

Data File: /chem3/p133.1/20110922-2.b/0922a037.d/0922a037.cdf
 Injection Date: 22-SEP-2011 21:41
 Instrument: p133.1
 Client Sample ID:



AIA 0922a037.cdf: 0.153 to 22.080 Min

MH
9/29/11



MANUAL INTEGRATION

- Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: MH Date: 9/29/14

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS


Page 1 of 1

Sample ID: METHOD BLANK

Lab Sample ID: TM62MB

LIMS ID: 11-20228

Matrix: Soil

Data Release Authorized: 

Reported: 09/28/11

QC Report No: TM62-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Date Sampled: NA

Date Received: NA

Percent Total Solids: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	09/21/11	6010B	09/26/11	7440-38-2	Arsenic	5	5	U
3050B	09/21/11	6010B	09/26/11	7440-39-3	Barium	0.3	0.3	U
3050B	09/21/11	6010B	09/26/11	7440-43-9	Cadmium	0.2	0.2	U
3050B	09/21/11	6010B	09/26/11	7440-47-3	Chromium	0.5	0.5	U
3050B	09/21/11	6010B	09/26/11	7439-92-1	Lead	2	2	U
CLP	09/21/11	7471A	09/22/11	7439-97-6	Mercury	0.02	0.02	U
3050B	09/21/11	6010B	09/26/11	7782-49-2	Selenium	5	5	U
3050B	09/21/11	6010B	09/26/11	7440-22-4	Silver	0.3	0.3	U

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1


Sample ID: KJ-B2-12

SAMPLE

Lab Sample ID: TM62B

LIMS ID: 11-20220

Matrix: Soil

Data Release Authorized: 

Reported: 09/28/11

QC Report No: TM62-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Date Sampled: 09/12/11

Date Received: 09/16/11

Percent Total Solids: 81.8%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	09/21/11	6010B	09/26/11	7440-38-2	Arsenic	6	6	
3050B	09/21/11	6010B	09/26/11	7440-39-3	Barium	0.3	25.8	
3050B	09/21/11	6010B	09/26/11	7440-43-9	Cadmium	0.2	0.2	U
3050B	09/21/11	6010B	09/26/11	7440-47-3	Chromium	0.6	15.5	
3050B	09/21/11	6010B	09/26/11	7439-92-1	Lead	2	2	U
CLP	09/21/11	7471A	09/22/11	7439-97-6	Mercury	0.03	0.03	U
3050B	09/21/11	6010B	09/26/11	7782-49-2	Selenium	6	6	U
3050B	09/21/11	6010B	09/26/11	7440-22-4	Silver	0.3	0.3	U

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: KJ-B10-8

SAMPLE

Lab Sample ID: TM62J

LIMS ID: 11-20228

Matrix: Soil

Data Release Authorized: 

Reported: 09/28/11

QC Report No: TM62-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Date Sampled: 09/12/11

Date Received: 09/16/11

Percent Total Solids: 86.1%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	09/21/11	6010B	09/27/11	7440-38-2	Arsenic	10	20	
3050B	09/21/11	6010B	09/27/11	7440-39-3	Barium	0.8	74.0	
3050B	09/21/11	6010B	09/27/11	7440-43-9	Cadmium	0.6	0.6	U
3050B	09/21/11	6010B	09/27/11	7440-47-3	Chromium	1	39	
3050B	09/21/11	6010B	09/27/11	7439-92-1	Lead	6	6	U
CLP	09/21/11	7471A	09/22/11	7439-97-6	Mercury	0.02	0.03	
3050B	09/21/11	6010B	09/27/11	7782-49-2	Selenium	10	10	U
3050B	09/21/11	6010B	09/27/11	7440-22-4	Silver	0.8	0.8	U

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

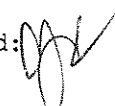
Sample ID: KJ-B2-12

MATRIX SPIKE

Lab Sample ID: TM62B

LIMS ID: 11-20220

Matrix: Soil

Data Release Authorized: 

Reported: 09/28/11

QC Report No: TM62-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Date Sampled: 09/12/11

Date Received: 09/16/11

MATRIX SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Spike	Spike Added	% Recovery	Q
Arsenic	6010B	6	238	227	102%	
Barium	6010B	25.8	252	227	99.6%	
Cadmium	6010B	0.2 U	59.8	56.8	105%	
Chromium	6010B	15.5	71.3	56.8	98.2%	
Lead	6010B	2 U	234	227	103%	
Mercury	7471A	0.03 U	0.33	0.284	116%	
Selenium	6010B	6 U	230	227	101%	
Silver	6010B	0.3 U	58.4	56.8	103%	

Reported in mg/kg-dry

N-Control Limit Not Met

H-% Recovery Not Applicable, Sample Concentration Too High

NA-Not Applicable, Analyte Not Spiked

Percent Recovery Limits: 75-125%

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

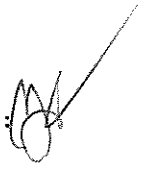
Page 1 of 1

Sample ID: KJ-B2-12
DUPLICATE

Lab Sample ID: TM62B

LIMS ID: 11-20220

Matrix: Soil

Data Release Authorized: 

Reported: 09/28/11

QC Report No: TM62-Kennedy Jenks Consultants
Project: Ecology Cornet Bay

Date Sampled: 09/12/11

Date Received: 09/16/11

MATRIX DUPLICATE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Duplicate	RPD	Control Limit	Q
Arsenic	6010B	6	6	0.0%	+/- 6	L
Barium	6010B	25.8	27.7	7.1%	+/- 20%	
Cadmium	6010B	0.2 U	0.2 U	0.0%	+/- 0.2	L
Chromium	6010B	15.5	16.4	5.6%	+/- 20%	
Lead	6010B	2 U	2 U	0.0%	+/- 2	L
Mercury	7471A	0.03 U	0.03 U	0.0%	+/- 0.03	L
Selenium	6010B	6 U	6 U	0.0%	+/- 6	L
Silver	6010B	0.3 U	0.3 U	0.0%	+/- 0.3	L

Reported in mg/kg-dry

*-Control Limit Not Met

L-RPD Invalid, Limit = Detection Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS


Page 1 of 1

Sample ID: LAB CONTROL

Lab Sample ID: TM62LCS

LIMS ID: 11-20228

Matrix: Soil

Data Release Authorized: 

Reported: 09/28/11

QC Report No: TM62-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Date Sampled: NA

Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Arsenic	6010B	210	200	105%	
Barium	6010B	205	200	102%	
Cadmium	6010B	52.2	50.0	104%	
Chromium	6010B	51.6	50.0	103%	
Lead	6010B	208	200	104%	
Mercury	7471A	0.54	0.50	108%	
Selenium	6010B	208	200	104%	
Silver	6010B	54.2	50.0	108%	

Reported in mg/kg-dry

N-Control limit not met

NA-Not Applicable, Analyte Not Spiked

Control Limits: 80-120%



Analytical Resources, Incorporated
Analytical Chemists and Consultants

5 October 2011

Dean Malte
Kennedy Jenks Consultants
32001 32nd Ave S., Suite 100
Federal Way, WA 98001

RE: Client Project: Ecology Cornet Bay
ARI Job No: TM63

Dear Dean:

Please find enclosed the original Chain-of-Custody (COC) records and the final results for the samples from the project referenced above. Twenty soil samples and one trip blank were received on September 16, 2011. The samples were analyzed for metals, PAHs, VOAs, BETX/NWTPH-G and Acid/Silica Cleaned NWTPH-Dx as requested.

All samples were initially analyzed for VOAs on 9/21/11. The data obtained for samples KJ-B20-7 and KJ-B30-8 were deemed unusable due to very high levels of background contamination and surrogate and internal standard recoveries that were not within control limits. These samples were re-analyzed medium level on 9/22/11. The re-analyses proceeded without incident of note. The results for the re-analyses only have been submitted.


Sample KJ-B27-12 was re-analyzed fro VOAs on 9/22/11 due to suspected carryover from a previous sample. The results for the re-analysis only have been submitted.

There were no further analytical problems noted.

An electronic copy of this report and all supporting raw data will be kept on file at ARI. Should you have any questions regarding these results, please feel free to call me at any time.

Sincerely,

ANALYTICAL RESOURCES, INC.


Mark D. Harris
Project Manager
206/695-6210
markh@arilabs.com

Enclosures

cc: file TM63

MDH/esj

Chain of Custody Record & Laboratory Analysis Request

Soil

ARI Assigned Number: JM63 Turn-around Requested: SAI

ARI Client Company: Kennedy/Teaks Phone: 253 855 6400

Client Contact: Dea Molt

Client Project Name: Ecology Cornet Bay

Client Project #: D/KCM

Samplers: D/KCM

Page: 3 of 4

Date: 9/14/11 Ice Present? Y

No. of Coolers: 4 Cooler Temps: 3.4, 4.4, 1.5, 4.8

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)



Sample ID	Date	Time	Matrix	No. Containers	Analysis Requested						Notes/Comments	
					WMPH-DX (w/alicjel)	WMPH-GX + BTEX	Total PCBs	Metal/15	PAHs	MTE, EDS, EDC		
K5-B21-7	9/13/11	1450	Soil	3	X	X	X	X				
K5-B20-7		1510		2	X	X	X	X				
K5-B20-10		1520		3	X	X	X	X				
K5-B21-3		1540		3	X	X	X	X				
K5-B100	9/13/11	1700		3	X	X	X	X				
K5-B22-5		1720		3	X	X	X	X				
K5-B22-9		1730		3	X	X	X	X				
K5-B23-8	9/14/11	850	Soil	3	X	X	X	X				
K5-B24-7		920		3	X	X	X	X				
K5-B25-4		1010		3	X	X	X	X				

Comments/Special Instructions

Relinquished by: (Signature) [Signature] Received by: (Signature) [Signature]

Printed Name: Dea Molt Company: Kennedy/Teaks Date & Time: 9/14/11 1700

Relinquished by: (Signature) [Signature] Received by: (Signature) [Signature]

Printed Name: Jennifer Millsap Company: ARI Date & Time: 9/16/11 1142

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

Chain of Custody Record & Laboratory Analysis Request

Soil

ARI Assigned Number: TM63 Turn-around Requested: Std.

ARI Client Company: Kennedy/Teaks Phone: 253 835 6400

Client Contact: Dean Walte

Client Project Name: Ecology Cornet Bay

Client Project #: DKM

Samplers: DKM

Page: 4 of 4

Date: 9/14/11 Ice Present? Y

No. of Coblers: 4 Cooler Temps: 3, 4, 4, 1, 5, 4, 8

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)



Sample ID	Date	Time	Matrix	No. Containers	Analysis Requested						Notes/Comments	
					WTRPH-DX (w/silica gel)	WTRPH-GX + DTEX	Total PCBs	PAHs	MTBE, EDC			
K5-026-8	9/14/11	1040	Soil	3	X	X						
K5-027-12	9/14/11	1130	Soil	8	X	X			X			Hold
K5-028-12		1300		3	X							X
K5-028-16		1310		3	X							
K5-029-7		1400		3	X							
K5-029-18		1405		3	X							
K5-030-8		1430		8	X	X			X			
K5-030-17		1450		3	X	X						
K5-031-4		1540		3	X	X						
K5-032-4		1610		3	X	X						
Comments/Special Instructions	Relinquished by: (Signature) <u>[Signature]</u> Received by: (Signature) <u>[Signature]</u>				Relinquished by: (Signature) <u>[Signature]</u> Received by: (Signature) <u>[Signature]</u>				Relinquished by: (Signature) <u>[Signature]</u> Received by: (Signature) <u>[Signature]</u>			
	Printed Name: <u>Dean Walte</u>				Printed Name: <u>Jennifer Millsap</u>				Printed Name: <u>[Signature]</u>			
	Company: <u>Kennedy/Teaks</u>				Company: <u>ARI</u>				Company: <u>[Signature]</u>			
	Date & Time: <u>9/14/11 1700</u>				Date & Time: <u>9/14/11 1445</u>				Date & Time: <u>[Signature]</u>			

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.



Cooler Receipt Form

ARI Client: Kennedy Jenks
 COC No(s): _____ (NA)
 Assigned ARI Job No: TM63
 Preliminary Examination Phase:

Project Name: Ecology Carnot Bay
 Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____
 Tracking No: 1Z A11 25E 03 0237 9455 / 1Z A11 25E 03 0204 7278
1Z A11 25E 03 0329 1193 / 1Z A11 25E 03 0694 6699

Were intact, properly signed and dated custody seals attached to the outside of cooler? YES NO
 Were custody papers included with the cooler? YES NO
 Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry) 3.4 4.4 1.5 4.8
 If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: 98941619

Cooler Accepted by: JM Date: 9/16/11 Time: 1145
 Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO
 What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____
 Was sufficient ice used (if appropriate)? NA YES NO
 Were all bottles sealed in individual plastic bags? YES NO
 Did all bottles arrive in good condition (unbroken)? YES NO
 Were all bottle labels complete and legible? YES NO
 Did the number of containers listed on COC match with the number of containers received? YES NO
 Did all bottle labels and tags agree with custody papers? YES NO
 Were all bottles used correct for the requested analyses? YES NO
 Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)... NA YES NO
 Were all VOC vials free of air bubbles? NA YES NO
 Was sufficient amount of sample sent in each bottle? YES NO
 Date VOC Trip Blank was made at ARI NA 9/8/11
 Was Sample Split by ARI: NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: JM Date: 9/16/11 Time: 1325
 ** Notify Project Manager of discrepancies or concerns **

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

Trip Blank = Pb in 3063

By: JM Date: 9/16/11

			Small → "sm"
			Peabubbles → "pb"
			Large → "lg"
			Headspace → "hs"

TM63 : 00004

Sample ID Cross Reference Report



ARI Job No: TM63
Client: Kennedy Jenks Consultants
Project Event: N/A
Project Name: Ecology Cornet Bay

Sample ID	ARI Lab ID	ARI LIMS ID	Matrix	Sample Date/Time	VTSR
1. KJ-B20-7	TM63A	11-20243	Soil	09/13/11 15:10	09/16/11 11:45
2. KJ-B21-3	TM63B	11-20244	Soil	09/13/11 15:40	09/16/11 11:45
3. KJ-B100	TM63C	11-20245	Soil	09/13/11 17:00	09/16/11 11:45
4. KJ-B22-5	TM63D	11-20246	Soil	09/13/11 17:20	09/16/11 11:45
5. KJ-B23-8	TM63E	11-20247	Soil	09/14/11 08:50	09/16/11 11:45
6. KJ-B24-7	TM63F	11-20248	Soil	09/14/11 09:20	09/16/11 11:45
7. KJ-B25-4	TM63G	11-20249	Soil	09/14/11 10:10	09/16/11 11:45
8. KJ-B26-8	TM63H	11-20250	Soil	09/14/11 10:40	09/16/11 11:45
9. KJ-B27-12	TM63I	11-20251	Soil	09/14/11 11:30	09/16/11 11:45
10. KJ-B28-16	TM63J	11-20252	Soil	09/14/11 13:10	09/16/11 11:45
11. KJ-B29-7	TM63K	11-20253	Soil	09/14/11 14:00	09/16/11 11:45
12. KJ-B29-18	TM63L	11-20254	Soil	09/14/11 14:05	09/16/11 11:45
13. KJ-B30-8	TM63M	11-20255	Soil	09/14/11 14:30	09/16/11 11:45
14. KJ-B30-17	TM63N	11-20256	Soil	09/14/11 14:50	09/16/11 11:45
15. KJ-B31-4	TM63O	11-20257	Soil	09/14/11 15:40	09/16/11 11:45
16. KJ-B32-4	TM63P	11-20258	Soil	09/14/11 16:10	09/16/11 11:45
17. Trip Blank	TM63Q	11-20259	Water	09/13/11	09/16/11 11:45
18. KJ-B19-7	TM63R	11-20260	Soil	09/13/11 14:50	09/16/11 11:45
19. KJ-B20-10	TM63S	11-20261	Soil	09/13/11 15:20	09/16/11 11:45
20. KJ-B22-9	TM63T	11-20262	Soil	09/13/11 17:30	09/16/11 11:45
21. KJ-B28-12	TM63U	11-20263	Soil	09/14/11 13:00	09/16/11 11:45

Printed 09/21/11



Data Reporting Qualifiers

Effective 2/14/2011

Inorganic Data

- U Indicates that the target analyte was not detected at the reported concentration
- * Duplicate RPD is not within established control limits
- B Reported value is less than the CRDL but \geq the Reporting Limit
- N Matrix Spike recovery not within established control limits
- NA Not Applicable, analyte not spiked
- H The natural concentration of the spiked element is so much greater than the concentration spiked that an accurate determination of spike recovery is not possible
- L Analyte concentration is ≤ 5 times the Reporting Limit and the replicate control limit defaults to ± 1 RL instead of the normal 20% RPD

Organic Data

- U Indicates that the target analyte was not detected at the reported concentration
- * Flagged value is not within established control limits
- B Analyte detected in an associated Method Blank at a concentration greater than one-half of ARI's Reporting Limit or 5% of the regulatory limit or 5% of the analyte concentration in the sample.
- J Estimated concentration when the value is less than ARI's established reporting limits
- D The spiked compound was not detected due to sample extract dilution
- E Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.
- Q Indicates a detected analyte with an initial or continuing calibration that does not meet established acceptance criteria ($< 20\%$ RSD, $< 20\%$ Drift or minimum RRF).



- S Indicates an analyte response that has saturated the detector. The calculated concentration is not valid; a dilution is required to obtain valid quantification of the analyte
- NA The flagged analyte was not analyzed for
- NR Spiked compound recovery is not reported due to chromatographic interference
- NS The flagged analyte was not spiked into the sample
- M Estimated value for an analyte detected and confirmed by an analyst but with low spectral match parameters. This flag is used only for GC-MS analyses
- M2 The sample contains PCB congeners that do not match any standard Aroclor pattern. The PCBs are identified and quantified as the Aroclor whose pattern most closely matches that of the sample. The reported value is an estimate.
- N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification"
- Y The analyte is not detected at or above the reported concentration. The reporting limit is raised due to chromatographic interference. The Y flag is equivalent to the U flag with a raised reporting limit.
- EMPC Estimated Maximum Possible Concentration (EMPC) defined in EPA Statement of Work DLM02.2 as a value "calculated for 2,3,7,8-substituted isomers for which the quantitation and /or confirmation ion(s) has signal to noise in excess of 2.5, but does not meet identification criteria"
(Dioxin/Furan analysis only)
- C The analyte was positively identified on only one of two chromatographic columns. Chromatographic interference prevented a positive identification on the second column
- P The analyte was detected on both chromatographic columns but the quantified values differ by $\geq 40\%$ RPD with no obvious chromatographic interference
- X Analyte signal includes interference from polychlorinated diphenyl ethers.
(Dioxin/Furan analysis only)
- Z Analyte signal includes interference from the sample matrix or perfluorokerosene ions. **(Dioxin/Furan analysis only)**



Geotechnical Data

- A The total of all fines fractions. This flag is used to report total fines when only sieve analysis is requested and balances total grain size with sample weight.
- F Samples were frozen prior to particle size determination
- SM Sample matrix was not appropriate for the requested analysis. This normally refers to samples contaminated with an organic product that interferes with the sieving process and/or moisture content, porosity and saturation calculations
- SS Sample did not contain the proportion of "fines" required to perform the pipette portion of the grain size analysis
- W Weight of sample in some pipette aliquots was below the level required for accurate weighting

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 1

Sample ID: MB-092211
METHOD BLANK

Lab Sample ID: MB-092211
LIMS ID: 11-20243
Matrix: Soil
Data Release Authorized: *JJ*
Reported: 09/26/11

QC Report No: TM63-Kennedy Jenks Consultants
Project: Ecology Cornet Bay

Date Sampled: NA
Date Received: NA

Instrument/Analyst: FINN5/PAB
Date Analyzed: 09/22/11 10:13

Sample Amount: 100 mg-dry-wt
Purge Volume: 5.0 mL
Moisture: NA

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	50	< 50	U
106-93-4	Ethylene Dibromide	50	< 50	U
1634-04-4	Methyl tert-Butyl Ether	50	< 50	U

Reported in µg/kg (ppb)


Volatile Surrogate Recovery

d4-1,2-Dichloroethane	83.0%
d8-Toluene	101%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 1

Sample ID: MB-092211
METHOD BLANK

Lab Sample ID: MB-092211
LIMS ID: 11-20251
Matrix: Soil
Data Release Authorized: 
Reported: 09/26/11

QC Report No: TM63-Kennedy Jenks Consultants
Project: Ecology Cornet Bay

Date Sampled: NA
Date Received: NA

Instrument/Analyst: FINN5/PAB
Date Analyzed: 09/22/11 10:13

Sample Amount: 5.00 g-dry-wt
Purge Volume: 5.0 mL
Moisture: NA

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	1.0	< 1.0	U
106-93-4	Ethylene Dibromide	1.0	< 1.0	U
1634-04-4	Methyl tert-Butyl Ether	1.0	< 1.0	U

Reported in µg/kg (ppb)


Volatile Surrogate Recovery

d4-1,2-Dichloroethane	83.0%
d8-Toluene	101%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 1

Sample ID: KJ-B20-7
SAMPLE

Lab Sample ID: TM63A
LIMS ID: 11-20243
Matrix: Soil
Data Release Authorized: 
Reported: 10/05/11

QC Report No: TM63-Kennedy Jenks Consultants
Project: Ecology Cornet Bay

Date Sampled: 09/13/11
Date Received: 09/16/11

Instrument/Analyst: FINN5/PAB
Date Analyzed: 09/22/11 17:55

Sample Amount: 16.4 mg-dry-wt
Purge Volume: 5.0 mL
Moisture: 16.5%

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	300	< 300	U
106-93-4	Ethylene Dibromide	300	< 300	U
1634-04-4	Methyl tert-Butyl Ether	300	< 300	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	79.9%
Bromofluorobenzene	100%

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 1

Sample ID: KJ-B27-12
SAMPLE

Lab Sample ID: TM63I
LIMS ID: 11-20251
Matrix: Soil
Data Release Authorized: *A*
Reported: 10/05/11

QC Report No: TM63-Kennedy Jenks Consultants
Project: Ecology Cornet Bay

Date Sampled: 09/14/11
Date Received: 09/16/11

Instrument/Analyst: FINN5/PAB
Date Analyzed: 09/22/11 18:22

Sample Amount: 4.21 g-dry-wt
Purge Volume: 5.0 mL
Moisture: 18.9%

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	1.2	< 1.2	U
106-93-4	Ethylene Dibromide	1.2	< 1.2	U
1634-04-4	Methyl tert-Butyl Ether	1.2	< 1.2	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	97.6%
Bromofluorobenzene	89.4%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 1

Sample ID: KJ-B30-8
SAMPLE

Lab Sample ID: TM63M

QC Report No: TM63-Kennedy Jenks Consultants
Project: Ecology Cornet Bay

LIMS ID: 11-20255

Matrix: Soil

Data Release Authorized: *AB*

Date Sampled: 09/14/11

Reported: 10/05/11

Date Received: 09/16/11

Instrument/Analyst: FINN5/PAB

Sample Amount: 38.4 mg-dry-wt

Date Analyzed: 09/22/11 18:50

Purge Volume: 5.0 mL

Moisture: 15.8%

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	130	< 130	U
106-93-4	Ethylene Dibromide	130	< 130	U
1634-04-4	Methyl tert-Butyl Ether	130	< 130	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	85.6%
Bromofluorobenzene	99.3%

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

VOA SURROGATE RECOVERY SUMMARY



Matrix: Soil

QC Report No: TM63-Kennedy Jenks Consultants
Project: Ecology Cornet Bay

ARI ID	Client ID	Level	DCE	TOL	BFB	DCB	TOT OUT
MB-092211	Method Blank	Med	83.0%	NA	92.2%	NA	0
LCS-092211	Lab Control	Med	82.1%	NA	94.3%	NA	0
LCSD-092211	Lab Control Dup	Med	83.0%	NA	93.7%	NA	0
TM63A	KJ-B20-7	Med	79.9%	NA	100%	NA	0
MB-092211	Method Blank	Low	83.0%	NA	92.2%	NA	0
LCS-092211	Lab Control	Low	82.1%	NA	94.3%	NA	0
LCSD-092211	Lab Control Dup	Low	83.0%	NA	93.7%	NA	0
TM63I	KJ-B27-12	Low	97.6%	NA	89.4%	NA	0
TM63M	KJ-B30-8	Med	85.6%	NA	99.3%	NA	0

SW8260C	LCS/MB LIMITS		QC LIMITS	
	Low	Med	Low	Med
(DCE) = d4-1,2-Dichloroethane	79-121	76-120	75-152	69-120
(TOL) = d8-Toluene	80-120	80-120	82-115	80-120
(BFB) = Bromofluorobenzene	80-120	80-120	64-120	76-128
(DCB) = d4-1,2-Dichlorobenzene	80-120	80-120	80-120	80-120

Log Number Range: 11-20243 to 11-20255

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Sample ID: LCS-092211


Page 1 of 1

LAB CONTROL SAMPLE

Lab Sample ID: LCS-092211

LIMS ID: 11-20243

Matrix: Soil

Data Release Authorized: 

Reported: 09/26/11

QC Report No: TM63-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Date Sampled: NA

Date Received: NA

Instrument/Analyst LCS: FINN5/PAB

LCS: FINN5/PAB

Date Analyzed LCS: 09/22/11 08:57

LCS: 09/22/11 09:38

Sample Amount LCS: 100 mg-dry-wt

LCS: 100 mg-dry-wt

Purge Volume LCS: 5.0 mL

LCS: 5.0 mL

Moisture: NA

Analyte	Spike		LCS		Spike		LCS	
	LCS	Added-LCS	Recovery	LCS	Added-LCS	Recovery	RPD	
1,2-Dichloroethane	1930 Q	2500	77.2%	1980 Q	2500	79.2%	2.6%	
Ethylene Dibromide	2460	2500	98.4%	2550	2500	102%	3.6%	
Methyl tert-Butyl Ether	2420	2500	96.8%	2470	2500	98.8%	2.0%	

Reported in µg/kg (ppb)

RPD calculated using sample concentrations per SW846.

Volatile Surrogate Recovery

	LCS	LCS
d4-1,2-Dichloroethane	82.1%	83.0%
d8-Toluene	99.7%	100%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Page 1 of 1

Sample ID: LCS-092211

LAB CONTROL SAMPLE



Lab Sample ID: LCS-092211

LIMS ID: 11-20251

Matrix: Soil

Data Release Authorized: *[Signature]*

Reported: 09/26/11

QC Report No: TM63-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Date Sampled: NA

Date Received: NA

Instrument/Analyst LCS: FINN5/PAB

LCSD: FINN5/PAB

Date Analyzed LCS: 09/22/11 08:57

LCSD: 09/22/11 09:38

Sample Amount LCS: 5.00 g-dry-wt

LCSD: 5.00 g-dry-wt

Purge Volume LCS: 5.0 mL

LCSD: 5.0 mL

Moisture: NA

Analyte	Spike		LCS		Spike		LCSD	
	LCS	Added-LCS	Recovery	LCSD	Added-LCSD	Recovery	RPD	
1,2-Dichloroethane	38.5 Q	50.0	77.0%	39.7 Q	50.0	79.4%	3.1%	
Ethylene Dibromide	49.2	50.0	98.4%	51.0	50.0	102%	3.6%	
Methyl tert-Butyl Ether	48.4	50.0	96.8%	49.4	50.0	98.8%	2.0%	

Reported in µg/kg (ppb)

RPD calculated using sample concentrations per SW846.

Volatile Surrogate Recovery

	LCS	LCSD
d4-1,2-Dichloroethane	82.1%	83.0%
d8-Toluene	99.7%	100%

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: finn5.i Injection Date: 22-SEP-2011 08:20
 Lab File ID: 0500922A.d Init. Cal. Date(s): 17-AUG-2011 17-AUG-2011
 Analysis Type: SOIL Init. Cal. Times: 18:42 22:44
 Lab Sample ID: CC0922 Quant Type: ISTD
 Method: /chem1/finn5.i/22SEP11.b/s8260b.m

COMPOUND	RRF / AMOUNT		RF50	CCAL	MIN	MAX		CURVE TYPE
	RRF	%D / %DRIFT	RF50	RRF50	RRF	%D / %DRIFT	%D / %DRIFT	
1 Dichlorodifluoromethane	0.57813		0.39807	0.39807	0.010	-31.14473	20.00000	Averaged <-
2 Chloromethane	0.99671		0.95004	0.95004	0.100	-4.68233	20.00000	Averaged
3 Vinyl Chloride	1.01840		0.78838	0.78838	0.010	-22.58605	20.00000	Averaged <-
4 Bromomethane	0.43931		0.40231	0.40231	0.010	-8.42235	20.00000	Averaged
5 Chloroethane	0.46148		0.50687	0.50687	0.010	9.83575	20.00000	Averaged
6 Trichlorofluoromethane	0.91046		0.82918	0.82918	0.010	-8.92743	20.00000	Averaged
7 Acrolein	0.09121		0.09617	0.09617	0.010	5.43754	20.00000	Averaged
8 112Trichlorol22Trifluoroeth	0.51618		0.55694	0.55694	0.010	7.89691	20.00000	Averaged
9 Acetone	0.21280		0.27290	0.27290	0.010	28.24599	20.00000	Averaged <-
10 1,1-Dichloroethene	0.46088		0.46392	0.46392	0.010	0.65844	20.00000	Averaged
11 Bromoethane	0.36238		0.37694	0.37694	0.010	4.01794	20.00000	Averaged
12 Iodomethane	0.72189		0.74993	0.74993	0.010	3.88401	20.00000	Averaged
13 Methylene Chloride	52.96632		50.00000	0.57106	0.010	5.93265	20.00000	Linear
14 Acrylonitrile	0.19367		0.19780	0.19780	0.010	2.12996	20.00000	Averaged
16 Methyl tert-Butyl Ether	1.20918		1.08710	1.08710	0.010	-10.09616	20.00000	Averaged
15 Carbon Disulfide	1.80536		1.88624	1.88624	0.010	4.48014	20.00000	Averaged
17 Trans-1,2-Dichloroethene	0.50595		0.51692	0.51692	0.010	2.16816	20.00000	Averaged
18 Vinyl Acetate	0.90440		0.82991	0.82991	0.010	-8.23575	20.00000	Averaged
19 1,1-Dichloroethane	1.12471		1.08350	1.08350	0.100	-3.66431	20.00000	Averaged
20 2-Butanone	0.30386		0.34070	0.34070	0.010	12.12401	20.00000	Averaged
21 2,2-Dichloropropane	0.73083		0.63487	0.63487	0.010	-13.13033	20.00000	Averaged
22 Cis-1,2-Dichloroethene	0.52766		0.57055	0.57055	0.010	8.12797	20.00000	Averaged
24 Chloroform	1.00012		0.92373	0.92373	0.010	-7.63826	20.00000	Averaged
26 Bromochloromethane	0.26181		0.28107	0.28107	0.010	7.35726	20.00000	Averaged
\$ 25 Dibromofluoromethane	0.53840		0.52710	0.52710	0.010	-2.09798	20.00000	Averaged
27 1,1,1-Trichloroethane	0.80658		0.67627	0.67627	0.010	-16.15596	20.00000	Averaged
29 1,1-Dichloropropene	0.60402		0.52185	0.52185	0.010	-13.60429	20.00000	Averaged
30 Carbon Tetrachloride	0.58452		0.44005	0.44005	0.010	-24.71663	20.00000	Averaged <-
\$ 31 d4-1,2-Dichloroethane	0.66927		0.52611	0.52611	0.010	-21.39152	20.00000	Averaged <-
32 1,2-Dichloroethane	0.61583		0.45533	0.45533	0.010	-26.06282	20.00000	Averaged <-
33 Benzene	1.47568		1.47115	1.47115	0.010	-0.30697	20.00000	Averaged
35 Trichloroethene	0.45637		0.41630	0.41630	0.010	-8.78006	20.00000	Averaged
36 1,2-Dichloropropane	0.51519		0.51306	0.51306	0.010	-0.41198	20.00000	Averaged
37 Bromodichloromethane	0.56637		0.49351	0.49351	0.010	-12.86329	20.00000	Averaged
39 Dibromomethane	0.26671		0.24749	0.24749	0.010	-7.20938	20.00000	Averaged

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: finn5.i Injection Date: 22-SEP-2011 08:20
 Lab File ID: 0500922A.d Init. Cal. Date(s): 17-AUG-2011 17-AUG-2011
 Analysis Type: SOIL Init. Cal. Times: 18:42 22:44
 Lab Sample ID: CC0922 Quant Type: ISTD
 Method: /chem1/finn5.i/22SEP11.b/s8260b.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
40 2-Chloroethyl Vinyl Ether	0.08792	0.12102	0.12102	0.001	37.64683	20.00000	Averaged
41 4-Methyl-2-Pentanone	0.13593	0.12606	0.12606	0.010	-7.26269	20.00000	Averaged
42 Cis 1,3-dichloropropene	0.60721	0.58861	0.58861	0.010	-3.06378	20.00000	Averaged
43 d8-Toluene	1.19857	1.20537	1.20537	0.010	0.56800	20.00000	Averaged
44 Toluene	0.83609	0.80760	0.80760	0.010	-3.40656	20.00000	Averaged
45 Trans 1,3-Dichloropropene	0.50989	0.47908	0.47908	0.010	-6.04292	20.00000	Averaged
46 2-Hexanone	0.39138	0.37852	0.37852	0.010	-3.28642	20.00000	Averaged
47 1,1,2-Trichloroethane	0.29492	0.27967	0.27967	0.010	-5.17096	20.00000	Averaged
48 1,3-Dichloropropane	0.60950	0.57135	0.57135	0.010	-6.25992	20.00000	Averaged
49 Tetrachloroethene	0.51481	0.46068	0.46068	0.010	-10.51542	20.00000	Averaged
50 Chlorodibromomethane	0.46700	0.42345	0.42345	0.010	-9.32594	20.00000	Averaged
51 1,2-Dibromoethane	0.33430	0.31628	0.31628	0.010	-5.39249	20.00000	Averaged
53 Chlorobenzene	1.00578	1.01080	1.01080	0.300	0.49930	20.00000	Averaged
54 Ethyl Benzene	1.75218	1.70467	1.70467	0.010	-2.71102	20.00000	Averaged
55 1,1,1,2-Tetrachloroethane	0.40385	0.36130	0.36130	0.010	-10.53801	20.00000	Averaged
56 m,p-xylene	0.63169	0.62084	0.62084	0.010	-1.71683	20.00000	Averaged
57 o-Xylene	0.62985	0.62703	0.62703	0.010	-0.44723	20.00000	Averaged
58 Styrene	1.02321	1.02077	1.02077	0.010	-0.23814	20.00000	Averaged
59 Isopropyl Benzene	3.31387	3.21361	3.21361	0.010	-3.02543	20.00000	Averaged
60 Bromoform	0.65758	0.61575	0.61575	0.100	-6.36078	20.00000	Averaged
61 1,1,2,2-Tetrachloroethane	0.92076	0.91930	0.91930	0.300	-0.15806	20.00000	Averaged
62 4-Bromofluorobenzene	0.55057	0.50618	0.50618	0.010	-8.06260	20.00000	Averaged
63 1,2,3-Trichloropropane	0.19543	0.17208	0.17208	0.010	-11.94694	20.00000	Averaged
65 Trans-1,4-Dichloro 2-Butene	0.32872	0.28576	0.28576	0.010	-13.06938	20.00000	Averaged
66 N-Propyl Benzene	3.82381	3.93094	3.93094	0.010	2.80162	20.00000	Averaged
67 Bromobenzene	0.95577	0.92449	0.92449	0.010	-3.27222	20.00000	Averaged
68 1,3,5-Trimethyl Benzene	2.72130	2.60330	2.60330	0.010	-4.33625	20.00000	Averaged
69 2-Chloro Toluene	2.49067	2.31946	2.31946	0.010	-6.87413	20.00000	Averaged
70 4-Chloro Toluene	2.60264	2.59569	2.59569	0.010	-0.26720	20.00000	Averaged
71 T-Butyl Benzene	2.46044	2.27384	2.27384	0.010	-7.58416	20.00000	Averaged
72 1,2,4-Trimethylbenzene	2.66731	2.59570	2.59570	0.010	-2.68468	20.00000	Averaged
73 S-Butyl Benzene	3.49334	3.51044	3.51044	0.010	0.48953	20.00000	Averaged
74 4-Isopropyl Toluene	2.69574	2.60994	2.60994	0.010	-3.18267	20.00000	Averaged
75 1,3-Dichlorobenzene	1.58994	1.59312	1.59312	0.010	0.20018	20.00000	Averaged
77 1,4-Dichlorobenzene	1.53840	1.55382	1.55382	0.010	1.00256	20.00000	Averaged

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: finn5.i Injection Date: 22-SEP-2011 08:20
 Lab File ID: 0500922A.d Init. Cal. Date(s): 17-AUG-2011 17-AUG-2011
 Analysis Type: SOIL Init. Cal. Times: 18:42 22:44
 Lab Sample ID: CC0922 Quant Type: ISTD
 Method: /chem1/finn5.i/22SEP11.b/s8260b.m

COMPOUND	RF50		CCAL	MIN	MAX		CURVE TYPE
	RRF / AMOUNT	RF50	RRF50	RRF	%D / %DRIFT	%D / %DRIFT	
78 N-Butyl Benzene	2.90553	2.94286	2.94286	0.010	1.28489	20.00000	Averaged
79 d4-1,2-Dichlorobenzene	0.90104	0.88132	0.88132	0.010	-2.18808	20.00000	Averaged
80 1,2-Dichlorobenzene	1.44303	1.45630	1.45630	0.010	0.91946	20.00000	Averaged
81 1,2-Dibromo 3-Chloropropane	0.18867	0.15461	0.15461	0.010	-18.05401	20.00000	Averaged
82 1,2,4-Trichlorobenzene	1.13589	1.09050	1.09050	0.010	-3.99609	20.00000	Averaged
83 Hexachloro 1,3-Butadiene	0.88974	0.72719	0.72719	0.010	-18.26891	20.00000	Averaged
84 Naphthalene	1.96018	1.83393	1.83393	0.010	-6.44066	20.00000	Averaged
85 1,2,3-Trichlorobenzene	1.06115	0.98715	0.98715	0.010	-6.97399	20.00000	Averaged

ORGANICS ANALYSIS DATA SHEET
PNAs by SIM SW8270D-SIM GC/MS
Page 1 of 1

Sample ID: MB-092111
METHOD BLANK

Lab Sample ID: MB-092111
LIMS ID: 11-20415
Matrix: Soil
Data Release Authorized: *[Signature]*
Reported: 09/28/11

QC Report No: TM91-Kennedy Jenks Consultants
Project: Ecology Cornet Bay
Event: NA
Date Sampled: NA
Date Received: NA

Date Extracted: 09/21/11
Date Analyzed: 09/26/11 16:39
Instrument/Analyst: NT4/JZ
GPC Cleanup: No
Silica Gel Cleanup: Yes
Alumina Cleanup: No

Sample Amount: 10.00 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: NA

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	5.0	< 5.0 U
91-57-6	2-Methylnaphthalene	5.0	< 5.0 U
90-12-0	1-Methylnaphthalene	5.0	< 5.0 U
208-96-8	Acenaphthylene	5.0	< 5.0 U
83-32-9	Acenaphthene	5.0	< 5.0 U
86-73-7	Fluorene	5.0	< 5.0 U
85-01-8	Phenanthrene	5.0	< 5.0 U
120-12-7	Anthracene	5.0	< 5.0 U
206-44-0	Fluoranthene	5.0	< 5.0 U
129-00-0	Pyrene	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	5.0	< 5.0 U
218-01-9	Chrysene	5.0	< 5.0 U
50-32-8	Benzo(a)pyrene	5.0	< 5.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	< 5.0 U
53-70-3	Dibenz(a,h)anthracene	5.0	< 5.0 U
191-24-2	Benzo(g,h,i)perylene	5.0	< 5.0 U
132-64-9	Dibenzofuran	5.0	< 5.0 U
TOTBFA	Total Benzofluoranthenes	5.0	< 5.0 U


Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 63.7%
d14-Dibenzo(a,h)anthracen 48.0%

ORGANICS ANALYSIS DATA SHEET
PNAs by SIM SW8270D-SIM GC/MS
Page 1 of 1

Sample ID: KJ-MW6-14
SAMPLE

Lab Sample ID: TM91E
LIMS ID: 11-20415
Matrix: Soil
Data Release Authorized: 
Reported: 09/28/11

QC Report No: TM91-Kennedy Jenks Consultants
Project: Ecology Cornet Bay
Event: NA
Date Sampled: 09/15/11
Date Received: 09/19/11

Date Extracted: 09/21/11
Date Analyzed: 09/26/11 18:11
Instrument/Analyst: NT4/JZ
GPC Cleanup: No
Silica Gel Cleanup: Yes
Alumina Cleanup: No

Sample Amount: 11.50 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 16.3%

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	4.4	49
91-57-6	2-Methylnaphthalene	4.4	120
90-12-0	1-Methylnaphthalene	4.4	64
208-96-8	Acenaphthylene	4.4	< 4.4 U
83-32-9	Acenaphthene	4.4	12
86-73-7	Fluorene	4.4	6.1
85-01-8	Phenanthrene	4.4	14
120-12-7	Anthracene	4.4	16
206-44-0	Fluoranthene	4.4	< 4.4 U
129-00-0	Pyrene	4.4	< 4.4 U
56-55-3	Benzo(a)anthracene	4.4	< 4.4 U
218-01-9	Chrysene	4.4	< 4.4 U
50-32-8	Benzo(a)pyrene	4.4	< 4.4 U
193-39-5	Indeno(1,2,3-cd)pyrene	4.4	< 4.4 U
53-70-3	Dibenz(a,h)anthracene	4.4	< 4.4 U
191-24-2	Benzo(g,h,i)perylene	4.4	< 4.4 U
132-64-9	Dibenzofuran	4.4	< 4.4 U
TOTBFA	Total Benzofluoranthenes	4.4	< 4.4 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 76.3%
d14-Dibenzo(a,h)anthracen 101%

ORGANICS ANALYSIS DATA SHEET
PNAs by SIM SW8270D-SIM GC/MS
Page 1 of 1

Sample ID: KJ-B35-4
SAMPLE

Lab Sample ID: TM91H
LIMS ID: 11-20418
Matrix: Soil
Data Release Authorized: *[Signature]*
Reported: 09/28/11

QC Report No: TM91-Kennedy Jenks Consultants
Project: Ecology Cornet Bay
Event: NA
Date Sampled: 09/15/11
Date Received: 09/19/11

Date Extracted: 09/21/11
Date Analyzed: 09/26/11 18:42
Instrument/Analyst: NT4/JZ
GPC Cleanup: No
Silica Gel Cleanup: Yes
Alumina Cleanup: No

Sample Amount: 10.80 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 17.8%


CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	4.6	6,100 ES
91-57-6	2-Methylnaphthalene	4.6	12,000 ES
90-12-0	1-Methylnaphthalene	4.6	8,600 ES
208-96-8	Acenaphthylene	4.6	< 4.6 U
83-32-9	Acenaphthene	4.6	2,200 ES
86-73-7	Fluorene	4.6	1,500 ES
85-01-8	Phenanthrene	4.6	2,300 ES
120-12-7	Anthracene	4.6	280
206-44-0	Fluoranthene	4.6	49
129-00-0	Pyrene	4.6	200
56-55-3	Benzo (a) anthracene	4.6	7.2
218-01-9	Chrysene	4.6	20
50-32-8	Benzo(a)pyrene	4.6	< 4.6 U
193-39-5	Indeno(1,2,3-cd)pyrene	4.6	< 4.6 U
53-70-3	Dibenz(a,h)anthracene	4.6	< 4.6 U
191-24-2	Benzo(g,h,i)perylene	4.6	< 4.6 U
132-64-9	Dibenzofuran	4.6	870 E
TOTBFA	Total Benzofluoranthenes	4.6	5.6

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 64.7%
d14-Dibenzo(a,h)anthracen 97.7%

Sample ID: KJ-B35-4
 DILUTION

Lab Sample ID: TM91H
 LIMS ID: 11-20418
 Matrix: Soil
 Data Release Authorized: 
 Reported: 09/28/11

QC Report No: TM91-Kennedy Jenks Consultants
 Project: Ecology Cornet Bay
 Event: NA
 Date Sampled: 09/15/11
 Date Received: 09/19/11

Date Extracted: 09/21/11
 Date Analyzed: 09/27/11 18:18
 Instrument/Analyst: NT4/JZ
 GPC Cleanup: No
 Silica Gel Cleanup: Yes
 Alumina Cleanup: No

Sample Amount: 10.80 g-dry-wt
 Final Extract Volume: 0.5 mL
 Dilution Factor: 50.0
 Percent Moisture: 17.8%


CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	230	9,000
91-57-6	2-Methylnaphthalene	230	21,000
90-12-0	1-Methylnaphthalene	230	13,000
208-96-8	Acenaphthylene	230	< 230 U
83-32-9	Acenaphthene	230	2,600
86-73-7	Fluorene	230	1,600
85-01-8	Phenanthrene	230	3,200
120-12-7	Anthracene	230	290
206-44-0	Fluoranthene	230	< 230 U
129-00-0	Pyrene	230	230
56-55-3	Benzo(a)anthracene	230	< 230 U
218-01-9	Chrysene	230	< 230 U
50-32-8	Benzo(a)pyrene	230	< 230 U
193-39-5	Indeno(1,2,3-cd)pyrene	230	< 230 U
53-70-3	Dibenz(a,h)anthracene	230	< 230 U
191-24-2	Benzo(g,h,i)perylene	230	< 230 U
132-64-9	Dibenzofuran	230	960
TOTBFA	Total Benzofluoranthenes	230	< 230 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene D
 d14-Dibenzo(a,h)anthracen D

Sample ID: KJ-B38-7
SAMPLE

Lab Sample ID: TM91M
LIMS ID: 11-20423
Matrix: Soil
Data Release Authorized: 
Reported: 09/28/11

QC Report No: TM91-Kennedy Jenks Consultants
Project: Ecology Cornet Bay
Event: NA
Date Sampled: 09/16/11
Date Received: 09/19/11

Date Extracted: 09/21/11
Date Analyzed: 09/26/11 19:13
Instrument/Analyst: NT4/JZ
GPC Cleanup: No
Silica Gel Cleanup: Yes
Alumina Cleanup: No

Sample Amount: 10.26 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 22.6%

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	4.9	3,700 ES
91-57-6	2-Methylnaphthalene	4.9	11,000 ES
90-12-0	1-Methylnaphthalene	4.9	7,800 ES
208-96-8	Acenaphthylene	4.9	< 4.9 U
83-32-9	Acenaphthene	4.9	2,700 ES
86-73-7	Fluorene	4.9	1,500 ES
85-01-8	Phenanthrene	4.9	2,500 ES
120-12-7	Anthracene	4.9	410
206-44-0	Fluoranthene	4.9	87
129-00-0	Pyrene	4.9	160
56-55-3	Benzo (a) anthracene	4.9	17
218-01-9	Chrysene	4.9	27
50-32-8	Benzo (a) pyrene	4.9	6.7
193-39-5	Indeno (1,2,3-cd)pyrene	4.9	< 4.9 U
53-70-3	Dibenz (a,h) anthracene	4.9	< 4.9 U
191-24-2	Benzo (g,h,i) perylene	4.9	< 4.9 U
132-64-9	Dibenzofuran	4.9	800 E
TOTBFA	Total Benzofluoranthenes	4.9	14


Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 77.0%
d14-Dibenzo (a,h) anthracen 85.3%

ORGANICS ANALYSIS DATA SHEET
PNAs by SIM SW8270D-SIM GC/MS
Page 1 of 1

Sample ID: KJ-B38-7
DILUTION

Lab Sample ID: TM91M
LIMS ID: 11-20423
Matrix: Soil
Data Release Authorized: 
Reported: 09/28/11

QC Report No: TM91-Kennedy Jenks Consultants
Project: Ecology Cornet Bay
Event: NA
Date Sampled: 09/16/11
Date Received: 09/19/11

Date Extracted: 09/21/11
Date Analyzed: 09/27/11 16:15
Instrument/Analyst: NT4/JZ
GPC Cleanup: No
Silica Gel Cleanup: Yes
Alumina Cleanup: No

Sample Amount: 10.26 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 50.0
Percent Moisture: 22.6%

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	240	4,000
91-57-6	2-Methylnaphthalene	240	13,000
90-12-0	1-Methylnaphthalene	240	8,300
208-96-8	Acenaphthylene	240	< 240 U
83-32-9	Acenaphthene	240	2,600
86-73-7	Fluorene	240	1,400
85-01-8	Phenanthrene	240	2,800
120-12-7	Anthracene	240	< 240 U
206-44-0	Fluoranthene	240	< 240 U
129-00-0	Pyrene	240	< 240 U
56-55-3	Benzo(a)anthracene	240	< 240 U
218-01-9	Chrysene	240	< 240 U
50-32-8	Benzo(a)pyrene	240	< 240 U
193-39-5	Indeno(1,2,3-cd)pyrene	240	< 240 U
53-70-3	Dibenz(a,h)anthracene	240	< 240 U
191-24-2	Benzo(g,h,i)perylene	240	< 240 U
132-64-9	Dibenzofuran	240	690
TOTBFA	Total Benzofluoranthenes	240	< 240 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene D
d14-Dibenzo(a,h)anthracen D

SIM SW8270 SURROGATE RECOVERY SUMMARY

Matrix: Soil

QC Report No: TM91-Kennedy Jenks Consultants
Project: Ecology Cornet Bay

<u>Client ID</u>	<u>MNP</u>	<u>DBA</u>	<u>TOT OUT</u>
MB-092111	63.7%	48.0%	0
LCS-092111	85.3%	103%	0
LCSD-092111	77.0%	93.7%	0
KJ-MW6-14	76.3%	101%	0
KJ-B35-4	64.7%	97.7%	0
KJ-B35-4 DL	D	D	0
KJ-B38-7	77.0%	85.3%	0
KJ-B38-7 DL	D	D	0

LCS/MB LIMITS QC LIMITS

(MNP) = d10-2-Methylnaphthalene (35-100) (34-100)
(DBA) = d14-Dibenzo(a,h)anthracene (37-120) (10-117)

Prep Method: SW3546
Log Number Range: 11-20415 to 11-20423

Sample ID: LCS-092111
 LAB CONTROL SAMPLE

Lab Sample ID: LCS-092111
 LIMS ID: 11-20415
 Matrix: Soil
 Data Release Authorized: *AB*
 Reported: 09/28/11

QC Report No: TM91-Kennedy Jenks Consultants
 Project: Ecology Cornet Bay
 Event: NA
 Date Sampled: NA
 Date Received: NA

Date Extracted: 09/21/11
 Date Analyzed LCS: 09/26/11 12:30
 LCSD: 09/26/11 13:01
 Instrument/Analyst LCS: NT4/JZ
 LCSD: NT4/JZ

Sample Amount LCS: 10.0 g-dry-wt
 LCSD: 10.0 g-dry-wt
 Final Extract Volume LCS: 0.50 mL
 LCSD: 0.50 mL
 Dilution Factor LCS: 1.00
 LCSD: 1.00

Analyte	Spike			LCS			RPD
	LCS	Added-LCS	Recovery	LCS	Added-LCS	Recovery	
Naphthalene	110	150	73.3%	105	150	70.0%	4.7%
2-Methylnaphthalene	106	150	70.7%	102	150	68.0%	3.8%
1-Methylnaphthalene	120	150	80.0%	113	150	75.3%	6.0%
Acenaphthylene	125	150	83.3%	117	150	78.0%	6.6%
Acenaphthene	113	150	75.3%	108	150	72.0%	4.5%
Fluorene	121	150	80.7%	120	150	80.0%	0.8%
Phenanthrene	129	150	86.0%	123	150	82.0%	4.8%
Anthracene	151	150	101%	127	150	84.7%	17.3%
Fluoranthene	145	150	96.7%	146	150	97.3%	0.7%
Pyrene	150	150	100%	148	150	98.7%	1.3%
Benzo(a)anthracene	164	150	109%	161	150	107%	1.8%
Chrysene	142	150	94.7%	142	150	94.7%	0.0%
Benzo(a)pyrene	130	150	86.7%	127	150	84.7%	2.3%
Indeno(1,2,3-cd)pyrene	132	150	88.0%	116	150	77.3%	12.9%
Dibenz(a,h)anthracene	135	150	90.0%	129	150	86.0%	4.5%
Benzo(g,h,i)perylene	120	150	80.0%	128	150	85.3%	6.5%
Dibenzofuran	109	150	72.7%	105	150	70.0%	3.7%
Total Benzofluoranthenes	259	300	86.3%	264	300	88.0%	1.9%

Reported in µg/kg (ppb)

RPD calculated using sample concentrations per SW846.

SIM Semivolatile Surrogate Recovery

	LCS	LCSD
d10-2-Methylnaphthalene	85.3%	77.0%
d14-Dibenzo(a,h)anthracen	103%	93.7%

ORGANICS ANALYSIS DATA SHEET

TOTAL DIESEL RANGE HYDROCARBONS

NWTPHD by GC/FID-Silica and Acid Cleaned

Page 1 of 2

Matrix: Soil

QC Report No: TM63-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Data Release Authorized: *AB*

Reported: 09/26/11

ARI ID	Sample ID	Extraction Date	Analysis Date	EFV DL	Range	RL	Result
TM63A 11-20243	KJ-B20-7 HC ID: DIESEL	09/21/11	09/23/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	5.8 12	20 < 12 U 80.9%
TM63B 11-20244	KJ-B21-3 HC ID: DIESEL	09/21/11	09/23/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	6.2 12	64 < 12 U 61.9%
MB-092111 11-20245	Method Blank HC ID: ---	09/21/11	09/23/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	5.0 10	< 5.0 U < 10 U 82.6%
TM63C 11-20245	KJ-B100 HC ID: ---	09/21/11	09/23/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	5.3 11	< 5.3 U < 11 U 82.8%
TM63D 11-20246	KJ-B22-5 HC ID: DIESEL	09/21/11	09/23/11 FID4A	1.00 5.0	Diesel Motor Oil o-Terphenyl	30 60	520 < 60 U 80.7%
TM63E 11-20247	KJ-B23-8 HC ID: ---	09/21/11	09/23/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	6.1 12	< 6.1 U < 12 U 73.6%
TM63F 11-20248	KJ-B24-7 HC ID: ---	09/21/11	09/23/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	6.1 12	< 6.1 U < 12 U 77.5%
TM63G 11-20249	KJ-B25-4 HC ID: ---	09/21/11	09/23/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	6.3 13	< 6.3 U < 13 U 63.0%
TM63H 11-20250	KJ-B26-8 HC ID: ---	09/21/11	09/23/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	6.0 12	< 6.0 U < 12 U 71.0%
TM63I 11-20251	KJ-B27-12 HC ID: ---	09/21/11	09/24/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	6.0 12	< 6.0 U < 12 U 74.3%
TM63J 11-20252	KJ-B28-16 HC ID: ---	09/21/11	09/24/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	5.9 12	< 5.9 U < 12 U 58.8%
TM63K 11-20253	KJ-B29-7 HC ID: ---	09/21/11	09/24/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	6.0 12	< 6.0 U < 12 U 60.5%
TM63L 11-20254	KJ-B29-18 HC ID: ---	09/21/11	09/24/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	5.8 12	< 5.8 U < 12 U 87.8%

Data File: /chem3/fid4a.i/20110923.b/09233a010.d

Date: 23-SEP-2011 20:50

Client ID: KJ-B21-3

Sample Info: TH638

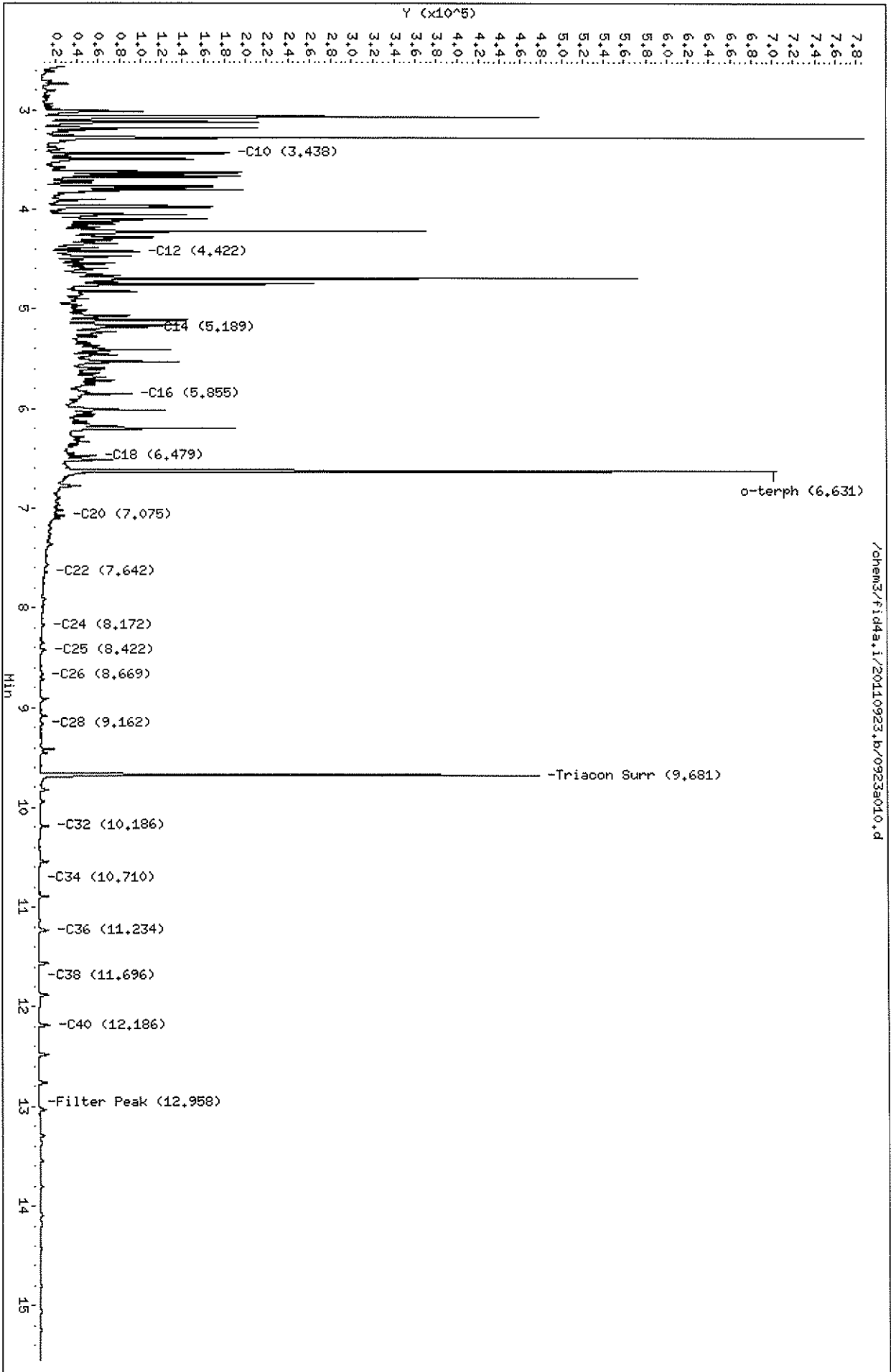
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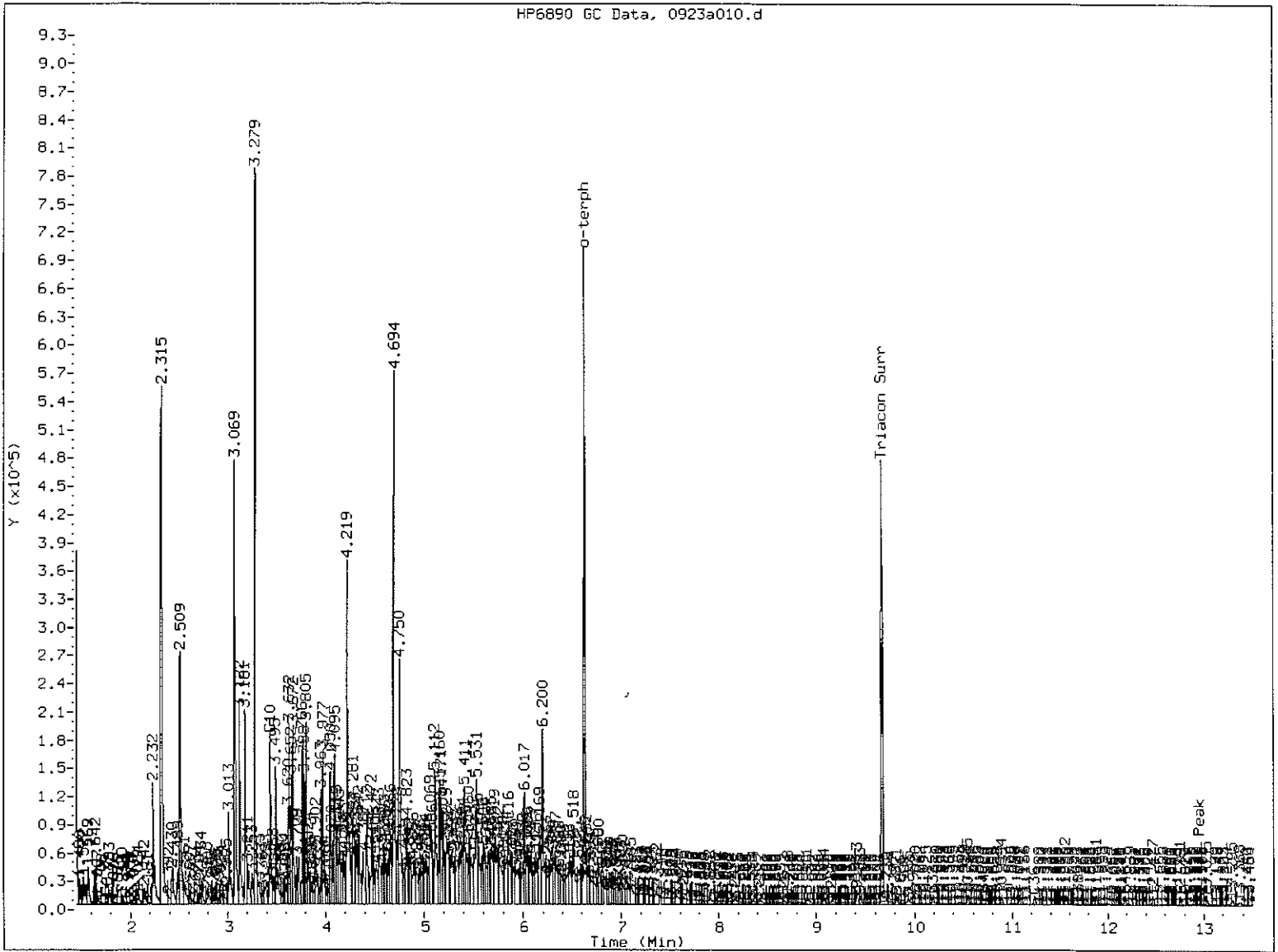
Instrument: fid4a.i

Operator: MS

Column diameter: 0.25

Page 1





MANUAL INTEGRATION

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

Analyst: *[Signature]*

Date: 9/26/6

Data File: /chem3/fid4a.i/20110923.b/0923a006.d

Date : 23-SEP-2011 19:18

Client ID: TH63HBS1

Sample Info: TH63HBS1

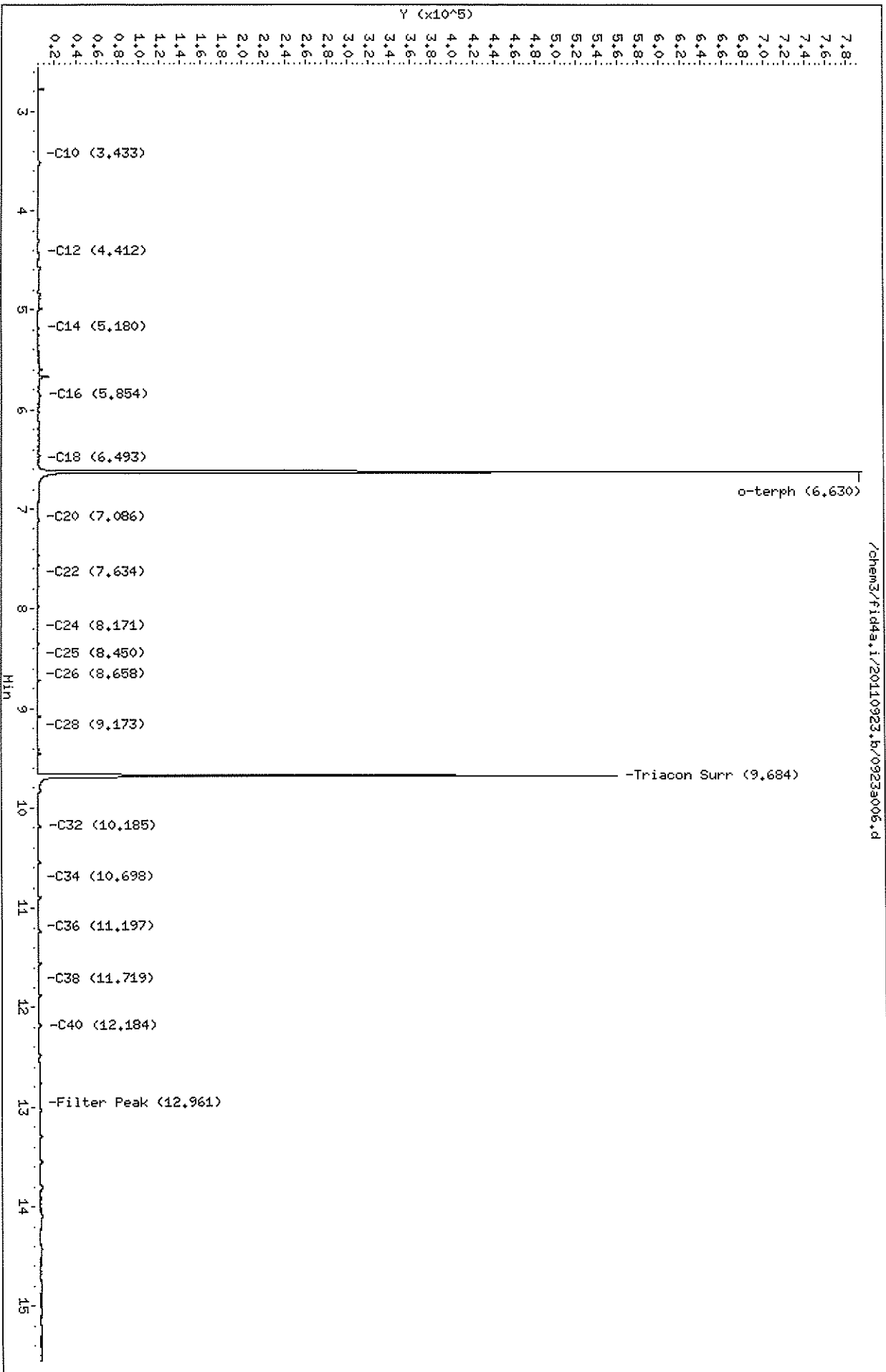
Column phase: RTX-1

Instrument: fid4a.i

Operator: HS

Column diameter: 0.25

Page 1



Data File: /chem3/fid4a.i/20110923.b/0923a014.d

Date: 23-SEP-2011 22:23

Client ID: KJ-R22-5

Sample Info: TM630.5

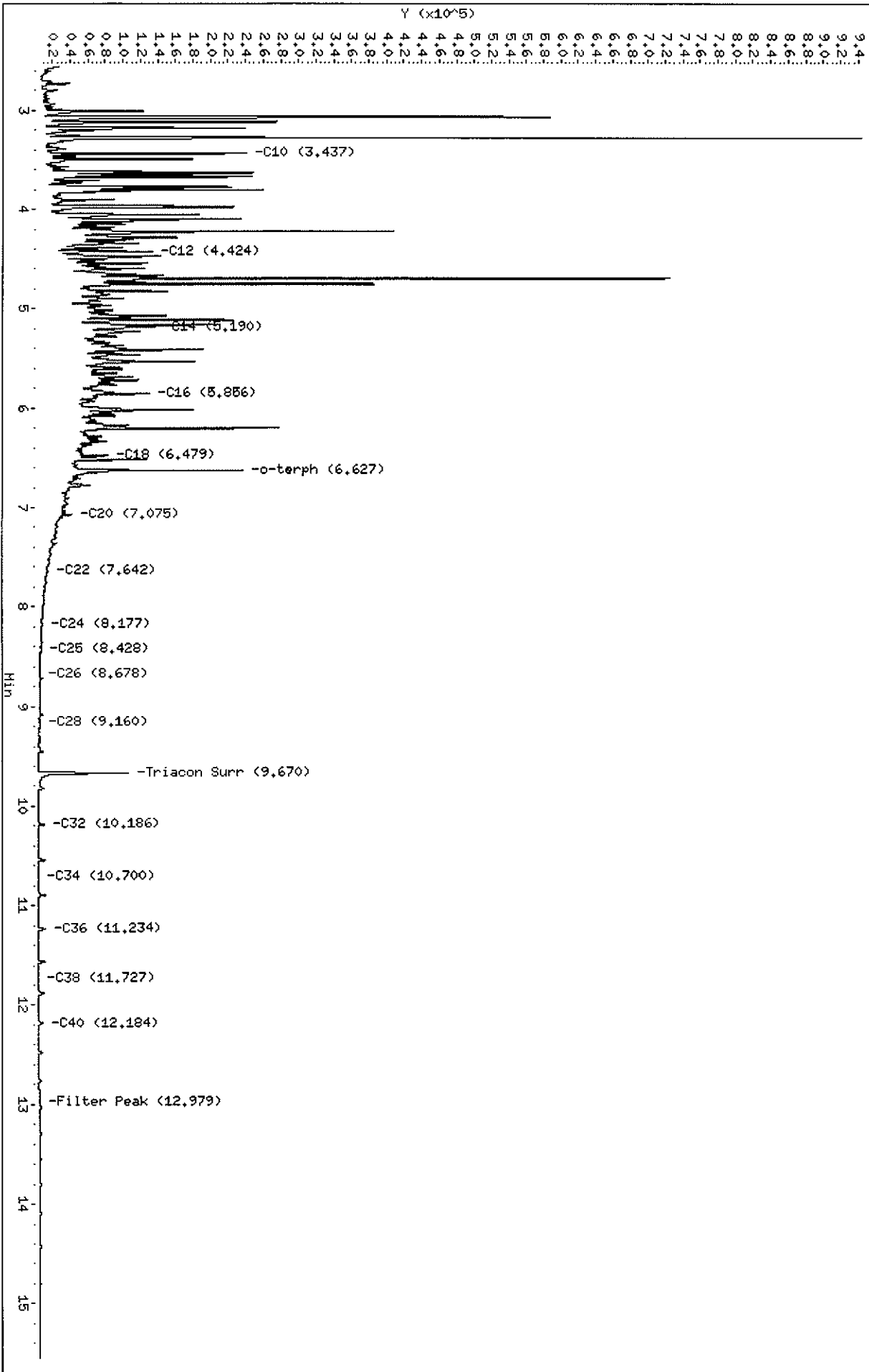
Column phase: RTX-1

Instrument: fid4a.i

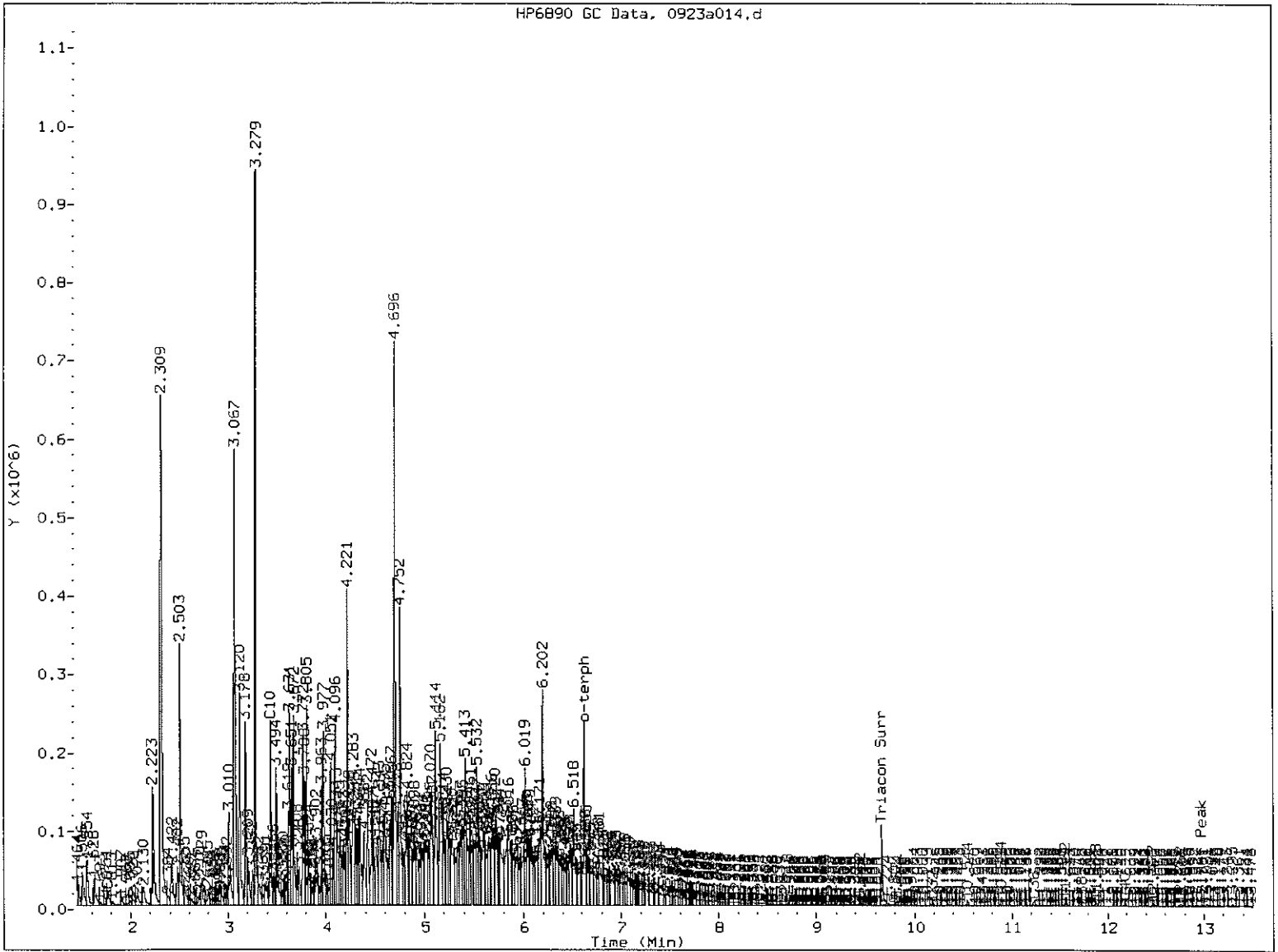
Operator: MS

Column diameter: 0.25

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HP6890 GC Data, 0923a014.d



MANUAL INTEGRATION

- 1 Baseline correction
- 2 Poor chromatography
- 3 Peak not found
- 4 Totals calculation
- 5 Other _____

Analyst: AM Date: 7/26/86

ORGANICS ANALYSIS DATA SHEET

TOTAL DIESEL RANGE HYDROCARBONS


NWTPHD by GC/FID-Silica and Acid Cleaned

Page 2 of 2

Matrix: Soil

QC Report No: TM63-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Data Release Authorized: 

Reported: 09/26/11

ARI ID	Sample ID	Extraction Date	Analysis Date	EFV DL	Range	RL	Result
TM63M 11-20255	KJ-B30-8 HC ID: DIESEL	09/21/11	09/24/11 FID4A	1.00 10	Diesel Motor Oil o-Terphenyl	57 110	1200 < 110 U 59.8%
TM63N 11-20256	KJ-B30-17 HC ID: ---	09/21/11	09/24/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	5.6 11	< 5.6 U < 11 U 61.6%
TM63O 11-20257	KJ-B31-4 HC ID: ---	09/21/11	09/24/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	5.4 11	< 5.4 U < 11 U 83.3%
TM63P 11-20258	KJ-B32-4 HC ID: DIESEL	09/21/11	09/24/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	5.2 10	98 < 10 U 79.8%
TM63R 11-20260	KJ-B19-7 HC ID: DIESEL	09/21/11	09/24/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	5.5 11	27 < 11 U 73.8%
TM63S 11-20261	KJ-B20-10 HC ID: ---	09/21/11	09/24/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	6.1 12	< 6.1 U < 12 U 58.0%
TM63T 11-20262	KJ-B22-9 HC ID: ---	09/21/11	09/24/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	5.6 11	< 5.6 U < 11 U 75.7%
TM63U 11-20263	KJ-B28-12 HC ID: ---	09/21/11	09/24/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	5.8 12	< 5.8 U < 12 U 79.8%

Reported in mg/kg (ppm)

EFV-Effective Final Volume in mL.

DL-Dilution of extract prior to analysis.

RL-Reporting limit.

Diesel quantitation on total peaks in the range from C12 to C24.

Motor Oil quantitation on total peaks in the range from C24 to C38.

HC ID: DRO/RRO indicate results of organics or additional hydrocarbons in ranges are not identifiable.

Data File: /chem3/fid4a.i/20110923a.b/0923a068.d

Date: 24-SEP-2011 19:18

Client ID: KJ-B30-8

Sample Info: TM63M.10

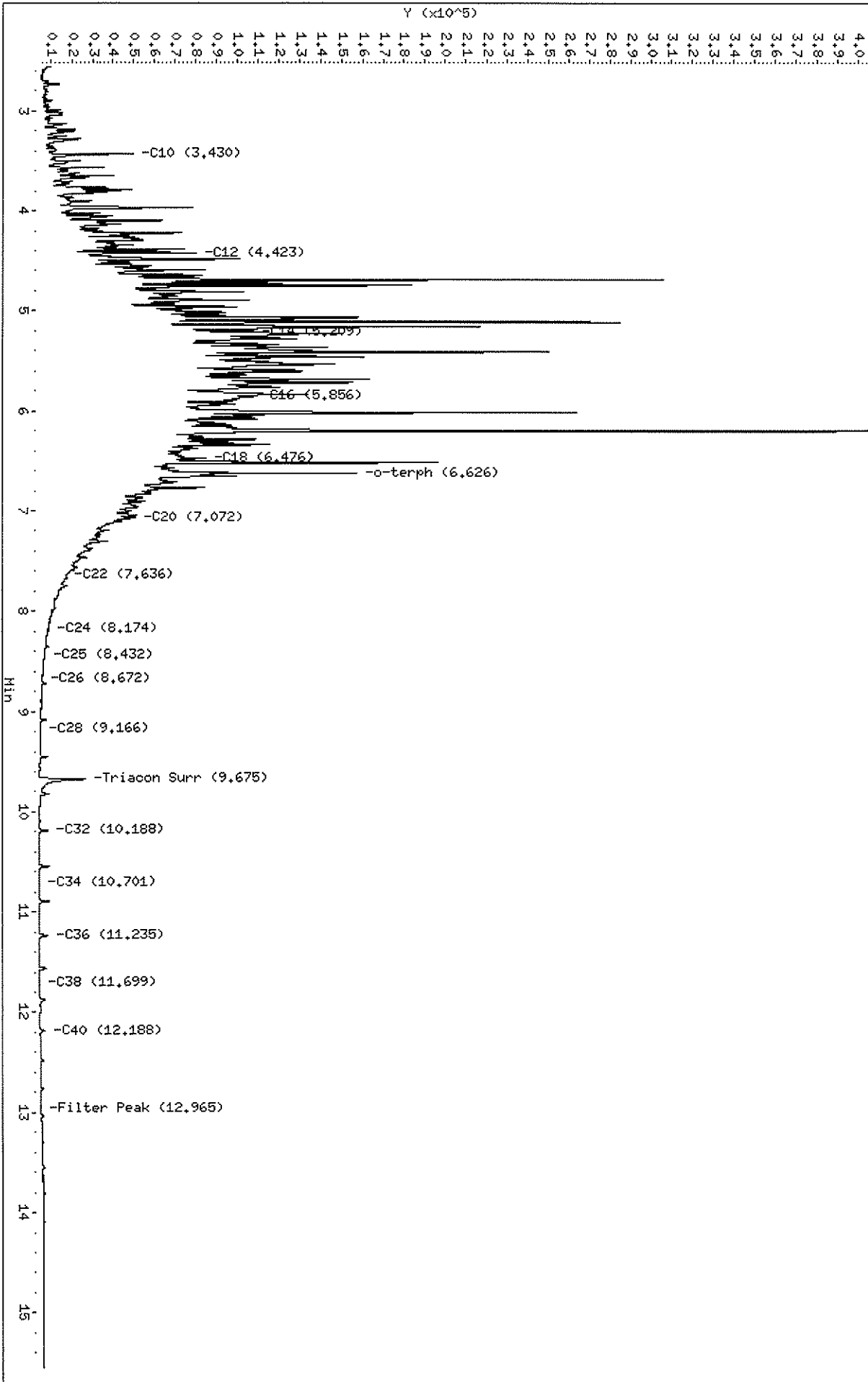
Column phase: RTX-1

Instrument: fid4a.i

Operator: MS

Column diameter: 0.25

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Data File: /chem3/fid4a.i/20110923.b/09233a028.d

Date : 24-SEP-2011 03:49

Client ID: KJ-B32-4

Sample Infor: TH63P

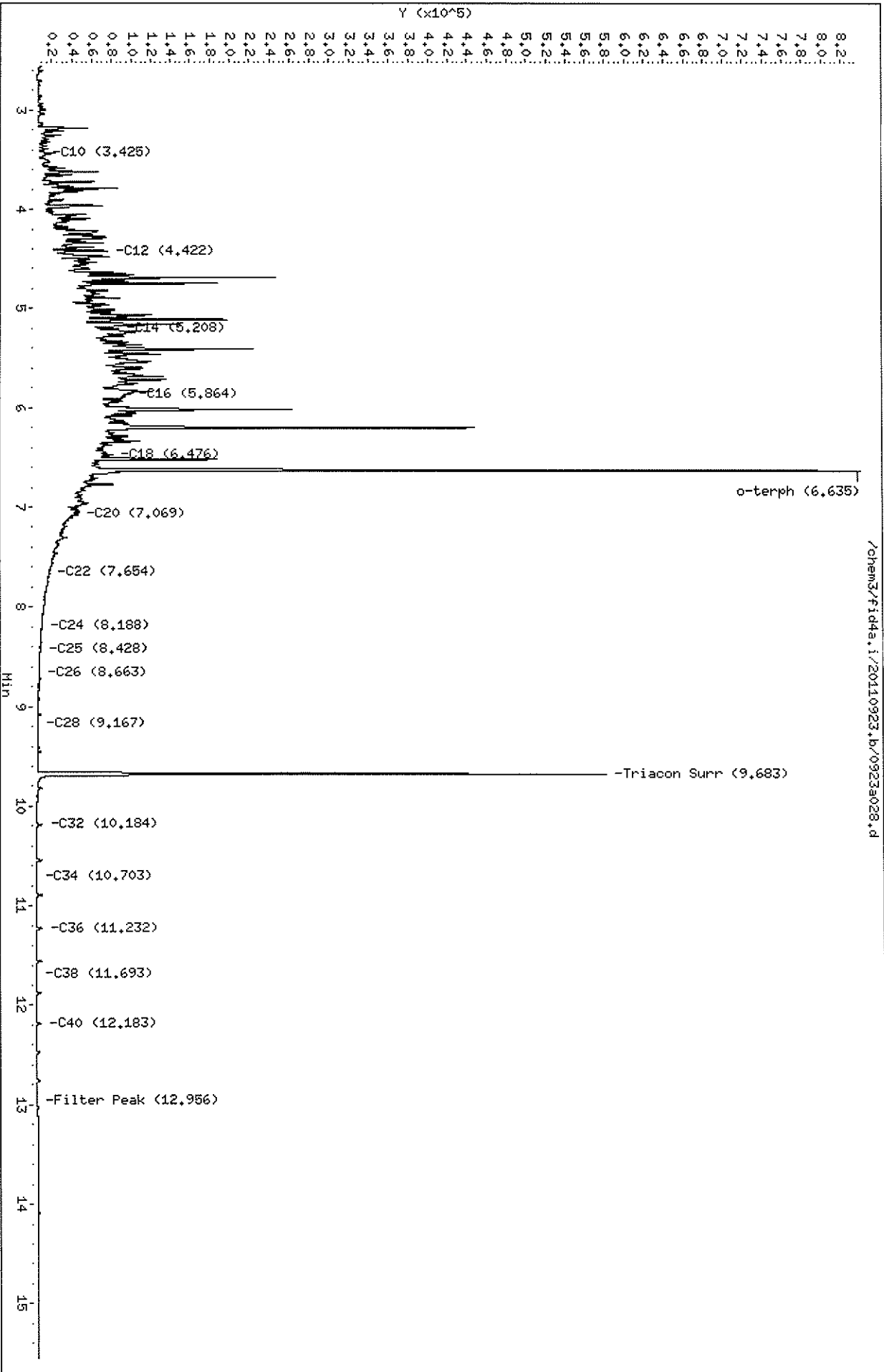
Column phase: RTX-1

Instrument: fid4a.i

Operator: HS

Column diameter: 0.25

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Data File: /chem3/fid4a.i/20110923.b/0923a029.d

Date: 24-SEP-2011 04:13

Client ID: KJ-819-7

Sample Info: TH63R

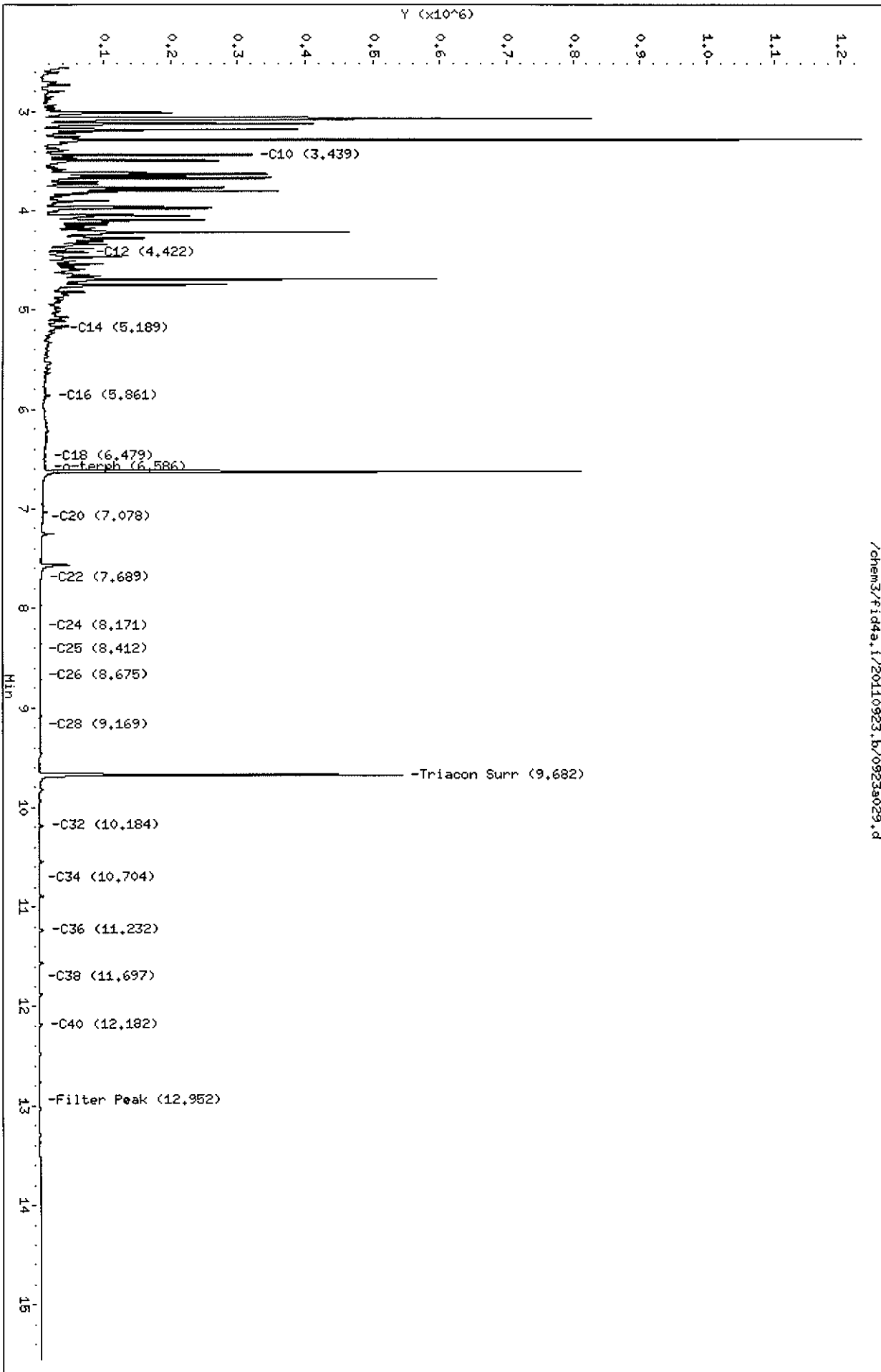
Column phase: RTX-1

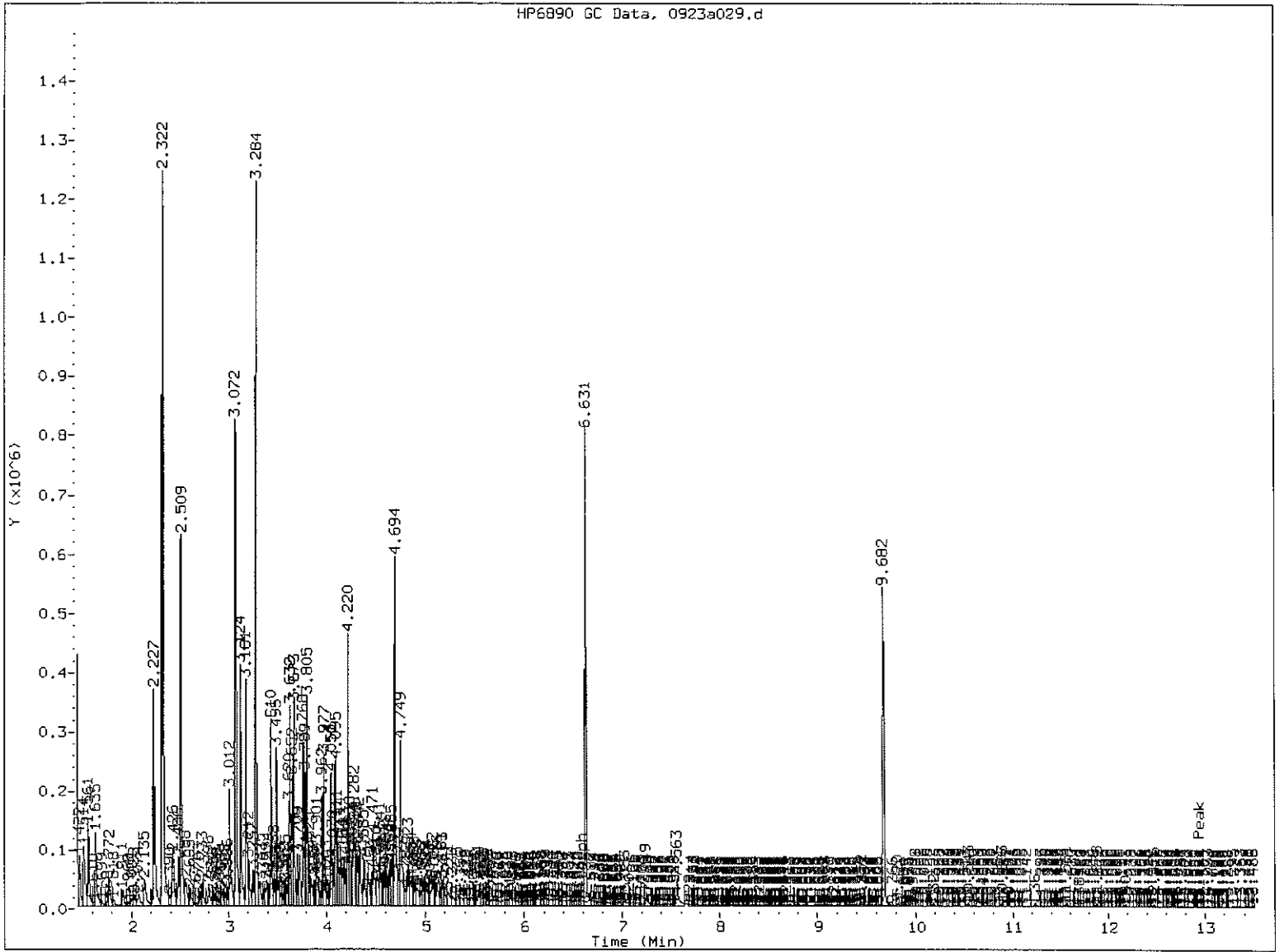
Instrument: fid4a.i

Operator: HS

Column diameter: 0.25

/chem3/fid4a.i/20110923.b/0923a029.d





MANUAL INTEGRATION

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: Ma

Date: 9/26/11

CLEANED TPHD SURROGATE RECOVERY SUMMARY

Matrix: Soil

QC Report No: TM63-Kennedy Jenks Consultants
Project: Ecology Cornet Bay

<u>Client ID</u>	<u>OTER</u>	<u>TOT OUT</u>
KJ-B20-7	80.9%	0
KJ-B21-3	61.9%	0
MB-092111	82.6%	0
LCS-092111	80.6%	0
KJ-B100	82.8%	0
KJ-B100 MS	79.4%	0
KJ-B100 MSD	80.0%	0
KJ-B22-5	80.7%	0
KJ-B23-8	73.6%	0
KJ-B24-7	77.5%	0
KJ-B25-4	63.0%	0
KJ-B26-8	71.0%	0
KJ-B27-12	74.3%	0
KJ-B28-16	58.8%	0
KJ-B29-7	60.5%	0
KJ-B29-18	87.8%	0
KJ-B30-8	59.8%	0
KJ-B30-17	61.6%	0
KJ-B31-4	83.3%	0
KJ-B32-4	79.8%	0
KJ-B19-7	73.8%	0
KJ-B20-10	58.0%	0
KJ-B22-9	75.7%	0
KJ-B28-12	79.8%	0

LCS/MB LIMITS QC LIMITS

(OTER) = o-Terphenyl

(50-150)

(50-150)

Prep Method: SW3546

Log Number Range: 11-20243 to 11-20263

ORGANICS ANALYSIS DATA SHEET

NWTPHD by GC/FID-Silica and Acid Cleaned

Page 1 of 1


Sample ID: KJ-B100

MS/MSD

Lab Sample ID: TM63C

LIMS ID: 11-20245

Matrix: Soil

Data Release Authorized: 

Reported: 09/26/11

QC Report No: TM63-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Date Sampled: 09/13/11

Date Received: 09/16/11

Date Extracted MS/MSD: 09/21/11

Sample Amount MS: 9.39 g-dry-wt

MSD: 9.13 g-dry-wt

Date Analyzed MS: 09/23/11 21:36

Final Extract Volume MS: 1.0 mL

MSD: 09/23/11 22:00

MSD: 1.0 mL

Instrument/Analyst MS: FID/MS

Dilution Factor MS: 1.0

MSD: FID/MS

MSD: 1.0

Percent Moisture: 9.6%

Range	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Diesel	< 5.3	128	160	80.0%	128	164	78.0%	0.0%

TPHD Surrogate Recovery

	MS	MSD
o-Terphenyl	79.4%	80.0%

Results reported in mg/kg

RPD calculated using sample concentrations per SW846.

Data File: /chem3/fid4a.i/20110923.b/0923a012.d

Date: 23-SEP-2011 21:36

Client ID: KJ-B100 HS

Sample Info: TM63CHS

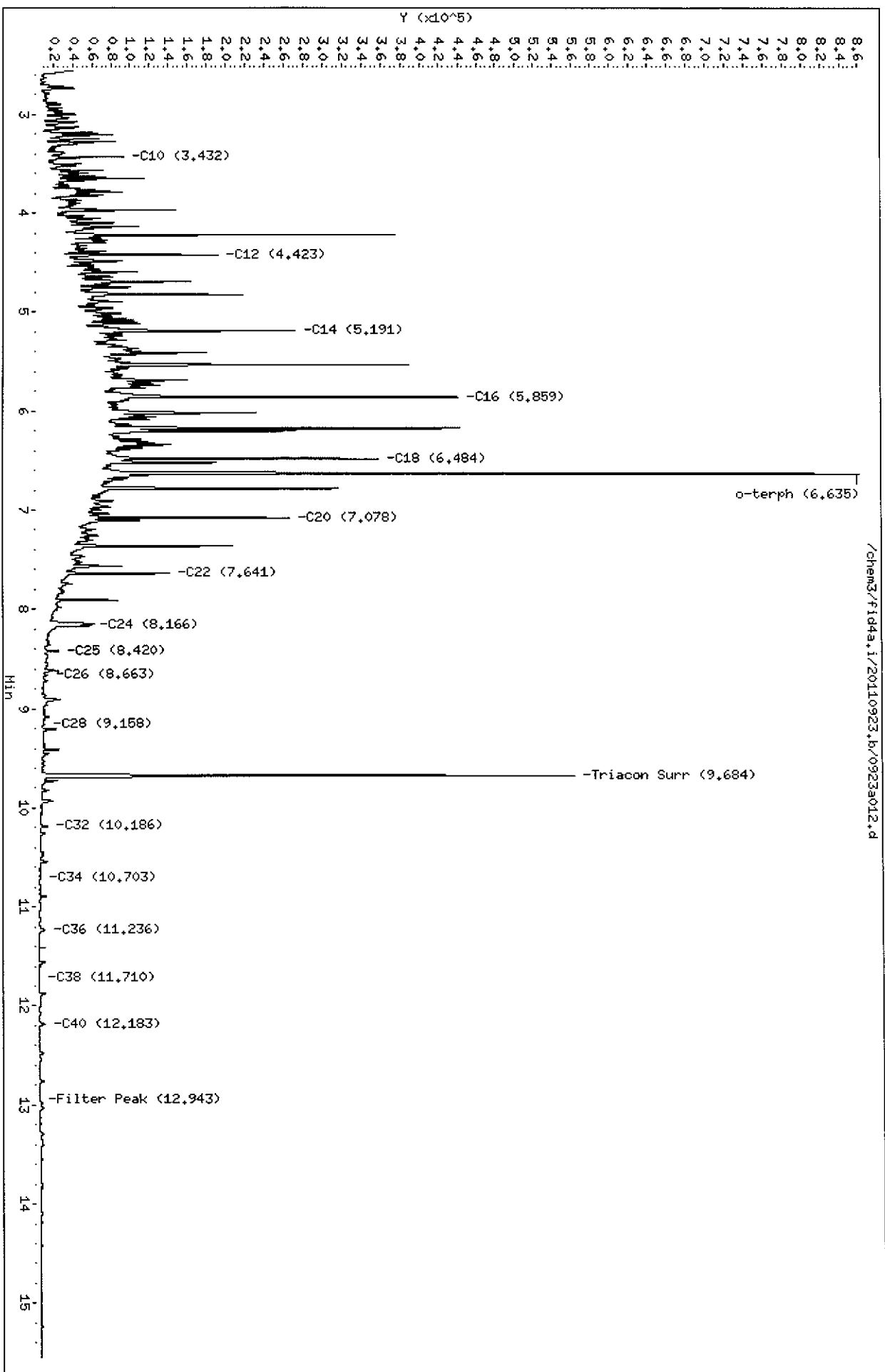
Column phase: RTX-1

Instrument: fid4a.i

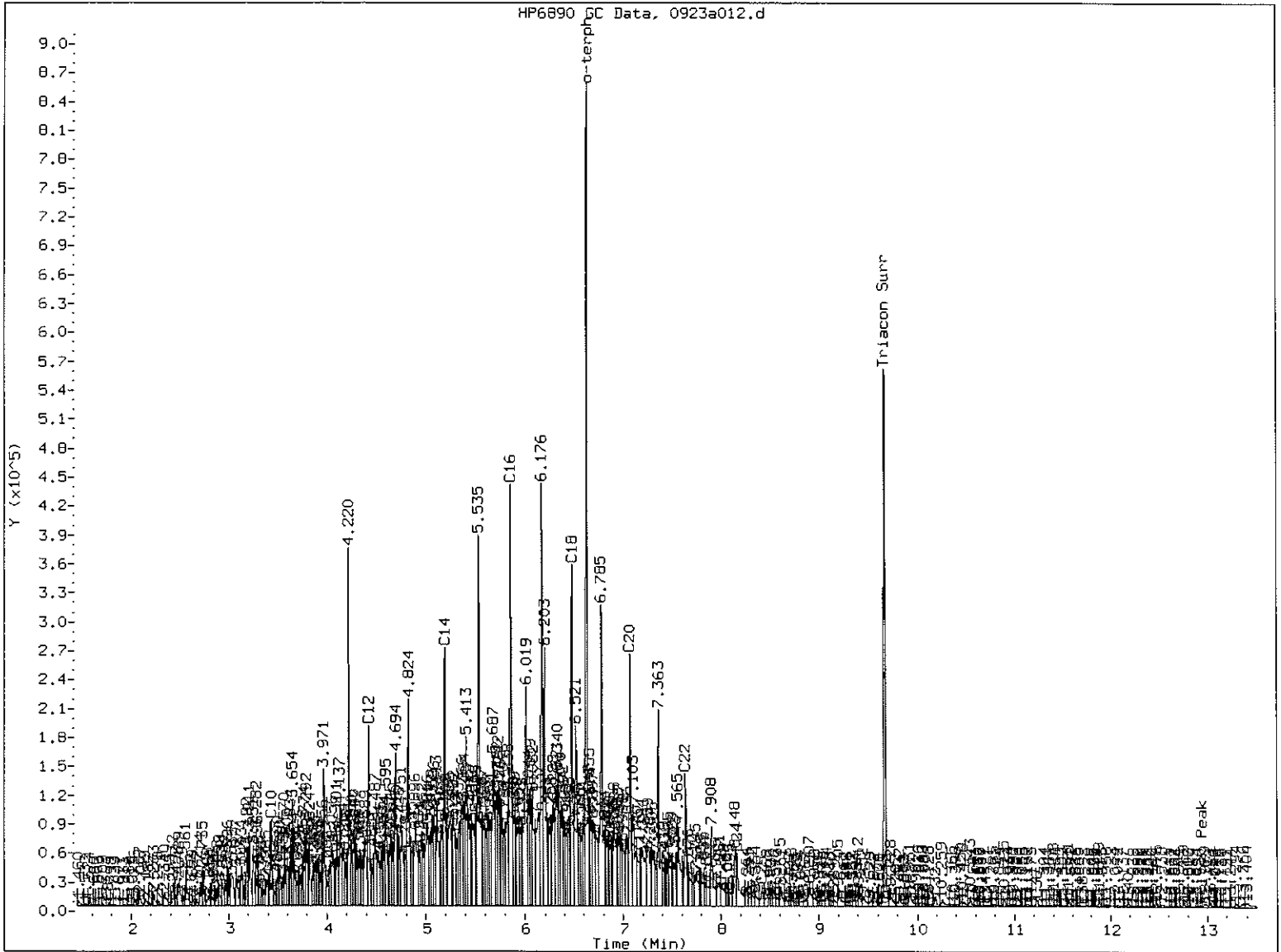
Operator: MS

Column diameter: 0.25

/chem3/fid4a.i/20110923.b/0923a012.d



HP6890 GC Data, 0923a012.d



MANUAL INTEGRATION

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: ms Date: 9/26/6

Data File: /chem3/fid4a.1/20110923.b/0923a013.d

Date : 23-SEP-2011 22:00

Client ID: KJ-B100 HSD

Sample Info: TM63CHSD

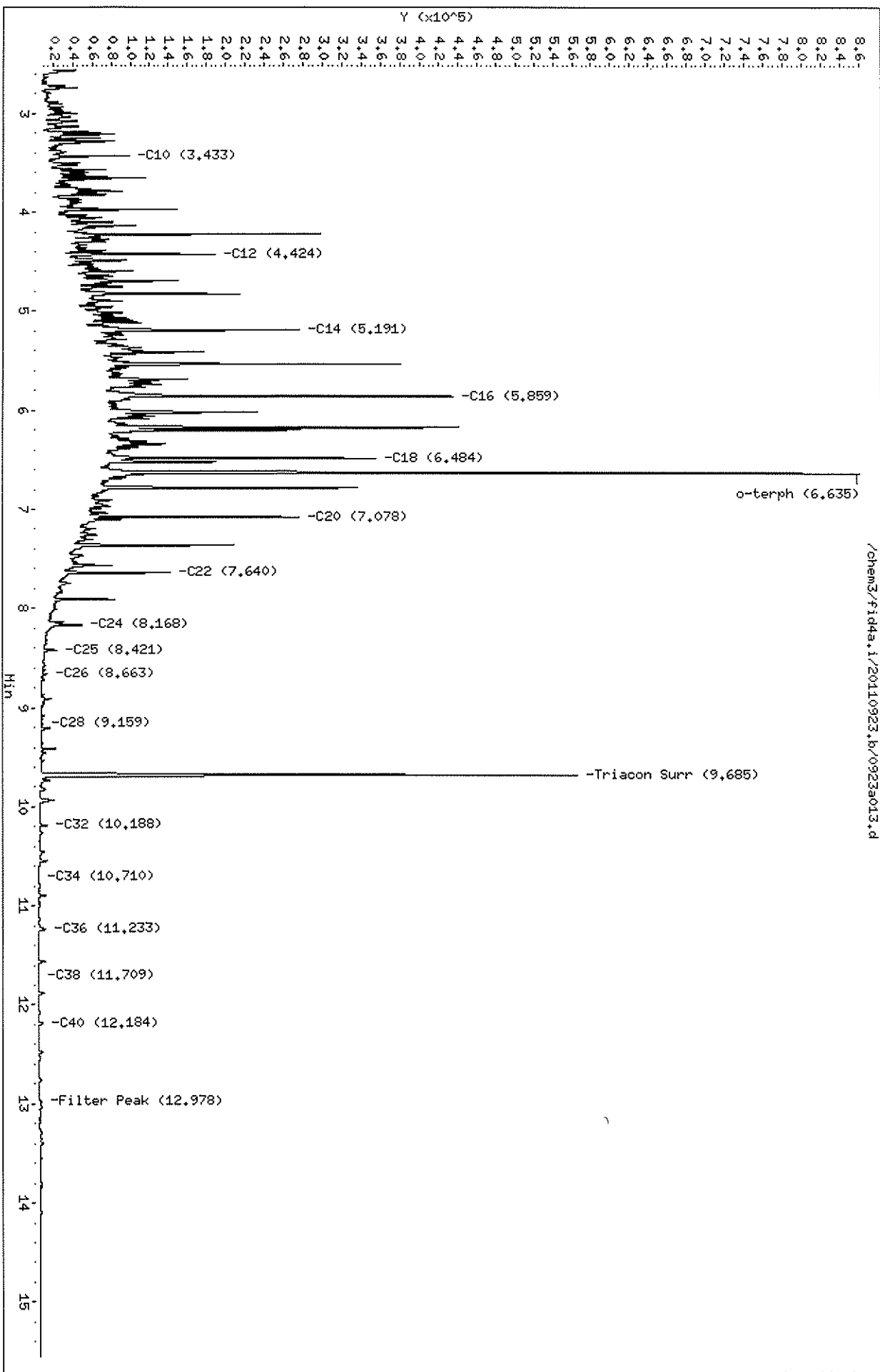
Column phase: RTX-1

Instrument: fid4a.1

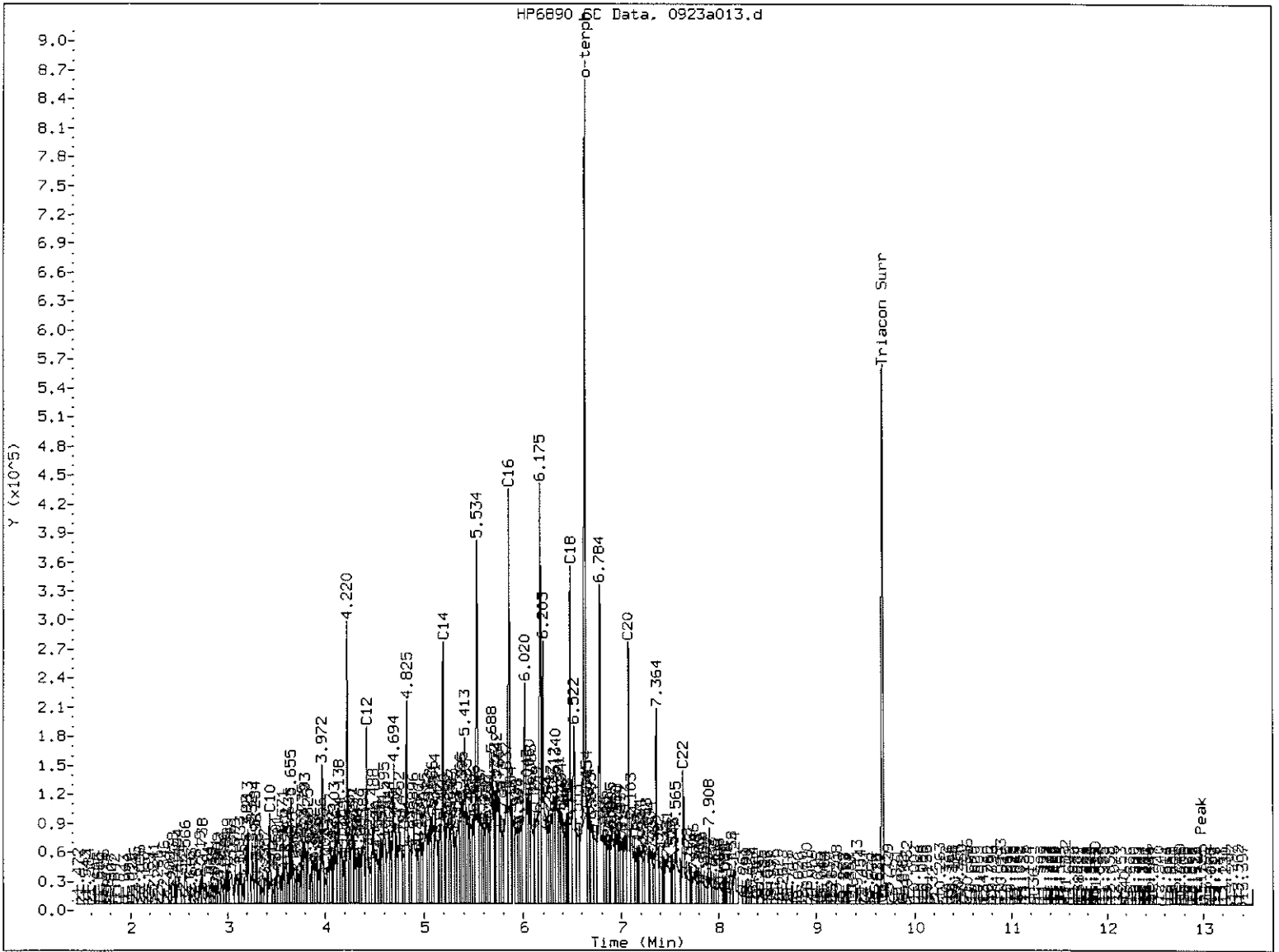
Operator: HS

Column diameter: 0.25

/chem3/fid4a.1/20110923.b/0923a013.d



HP6890 GC Data. 0923a013.d



MANUAL INTEGRATION

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: *MA*

Date: *9/20/11*

ORGANICS ANALYSIS DATA SHEET

NWTPHD by GC/FID-Silica and Acid Cleaned

Page 1 of 1

Sample ID: LCS-092111

LAB CONTROL

Lab Sample ID: LCS-092111

LIMS ID: 11-20245

Matrix: Soil

Data Release Authorized: *RB*

Reported: 09/26/11

QC Report No: TM63-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Date Sampled: 09/13/11

Date Received: 09/16/11

Date Extracted: 09/21/11

Date Analyzed: 09/23/11 19:41

Instrument/Analyst: FID/MS

Sample Amount: 10.0 g

Final Extract Volume: 1.0 mL

Dilution Factor: 1.0

Range	Lab Control	Spike Added	Recovery
Diesel	125	150	83.3%

TPHD Surrogate Recovery

o-Terphenyl	80.6%
-------------	-------

Results reported in mg/kg

Data File: /chem3/fid4a.i/20110923.b/0923a007.d

Date: 23-SEP-2011 19:41

Client ID: TH63LCSS1

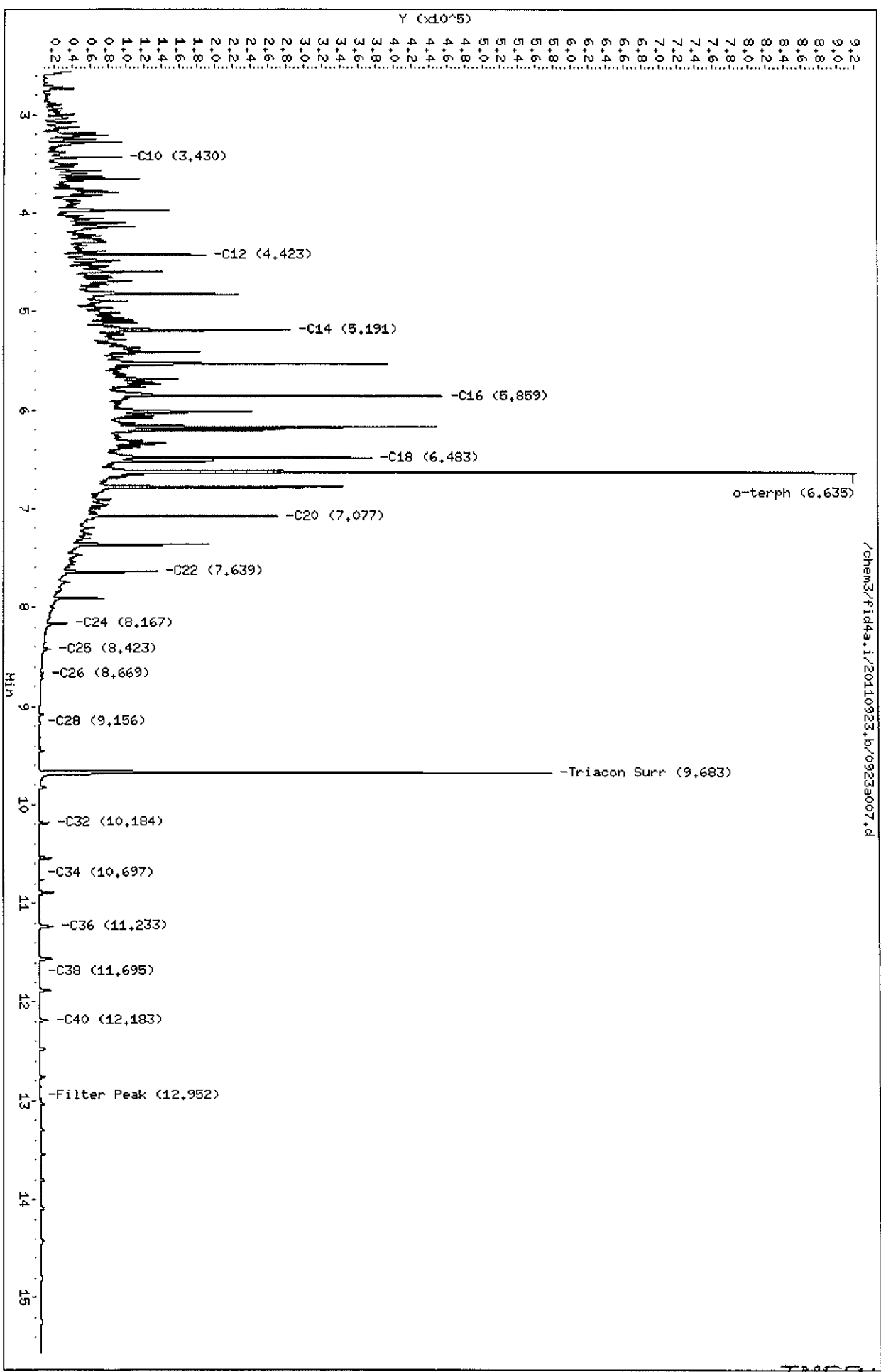
Sample Info: TH63LCSS1

Column phase: RTX-1

Instrument: fid4a.1

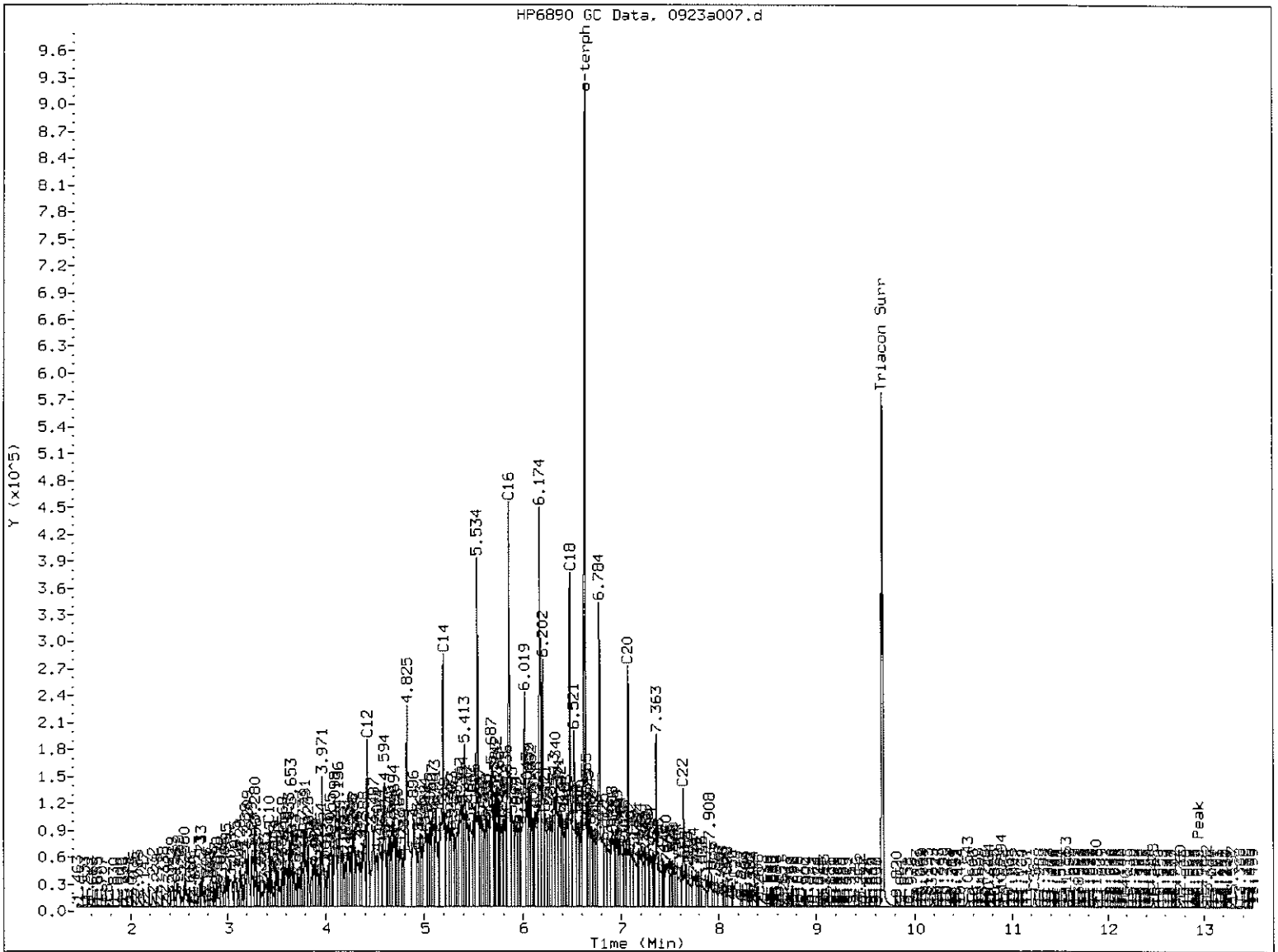
Operator: MS

Column diameter: 0.25



TH63LCSS1-0923a007.d

HP6890 GC Data. 0923a007.d



MANUAL INTEGRATION

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: *[Signature]*

Date: *9/26/11*

ORGANICS ANALYSIS DATA SHEET
 BETX by Method SW8021BMod
 TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: MB-092311
 METHOD BLANK

Lab Sample ID: MB-092311
 LIMS ID: 11-20243
 Matrix: Soil
 Data Release Authorized: *MW*
 Reported: 09/28/11

QC Report No: TM63-Kennedy Jenks Consultants
 Project: Ecology Cornet Bay
 Event: NA
 Date Sampled: NA
 Date Received: NA

Date Analyzed: 09/23/11 07:39
 Instrument/Analyst: PID3/MH

Purge Volume: 5.0 mL
 Sample Amount: 100 mg-dry-wt

CAS Number	Analyte	RL	Result	
71-43-2	Benzene	12	< 12 U	
108-88-3	Toluene	12	< 12 U	
100-41-4	Ethylbenzene	12	< 12 U	
179601-23-1	m,p-Xylene	25	< 25 U	
95-47-6	o-Xylene	12	< 12 U	
	Gasoline Range Hydrocarbons	5.0	< 5.0 U	GAS ID ---
BETX Surrogate Recovery				
	Trifluorotoluene	93.6%		
	Bromobenzene	92.5%		
Gasoline Surrogate Recovery				
	Trifluorotoluene	95.7%		
	Bromobenzene	93.9%		

BETX values reported in µg/kg (ppb)
 Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Data File: /chem3/pid3.i/20110923-2.b/0923a005.d

Date: 23-SEP-2011 07:39

Client ID:

Sample Info: MB0923

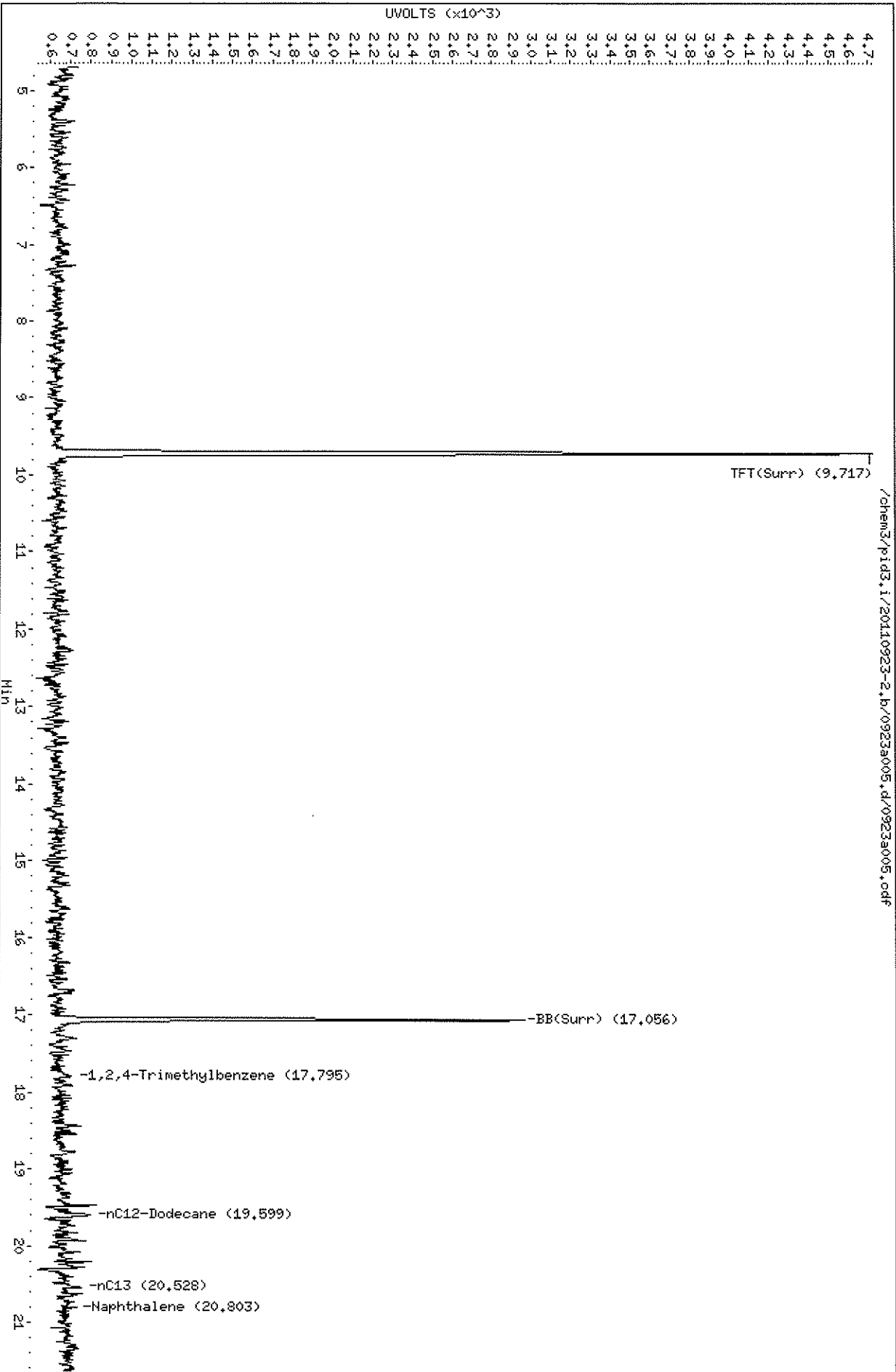
Column phase: RTX 502-2 FID

Instrument: pid3.i

Operator: HM

Column diameter: 0.18

Page 1



Data File: /chem3/pid3.i/20110923-1.b/09233a005.d

Date : 23-SEP-2011 07:39

Client ID:

Sample Info: HB0923

Instrument: pid3.i

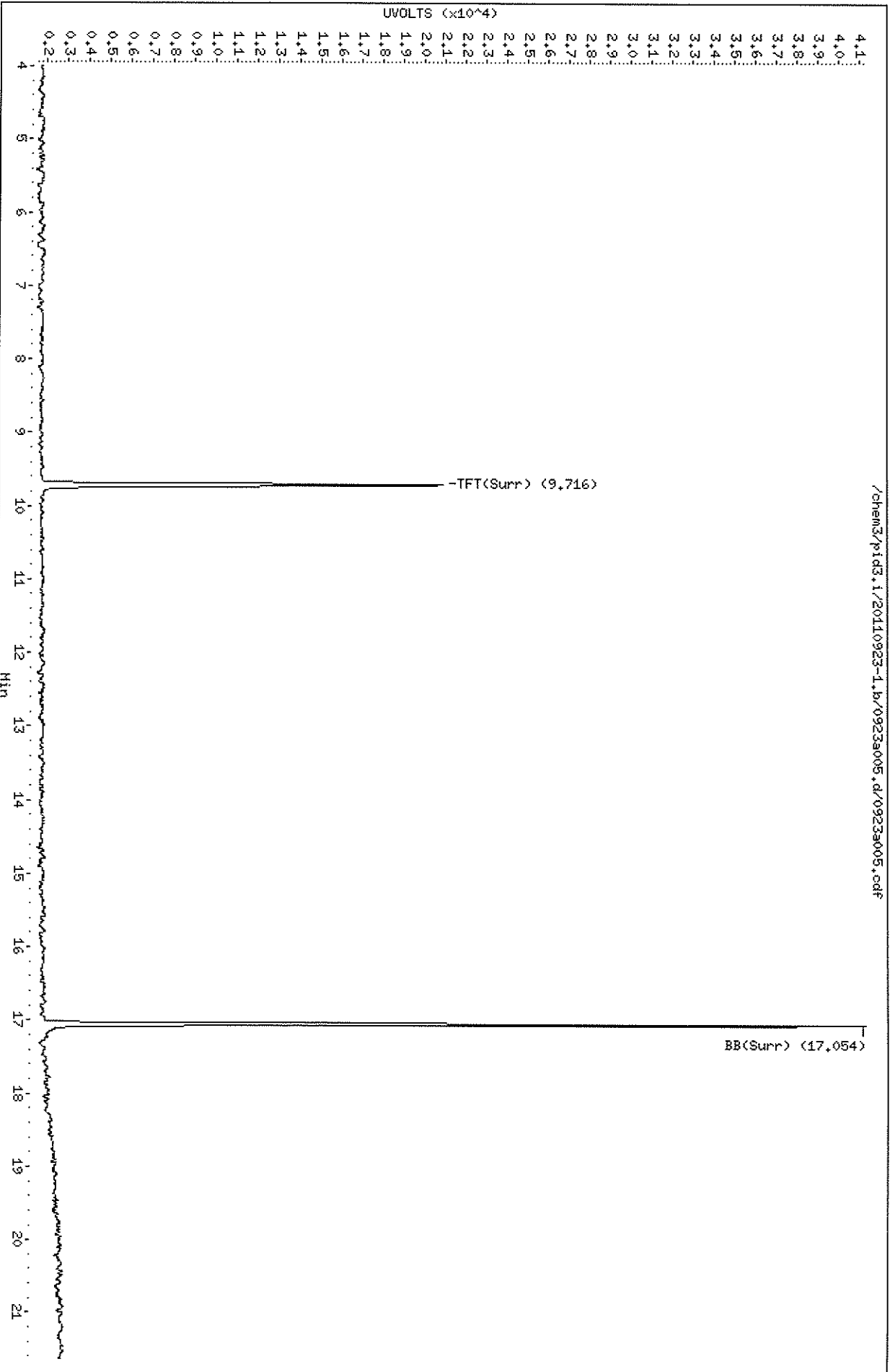
Operator: HH

Column diameter: 0.18

Column phase: RTX 502-2 PID

/chem3/pid3.i/20110923-1.b/09233a005.d/09233a005.cdf

Page 1



ORGANICS ANALYSIS DATA SHEET
 BETX by Method SW8021EMod
 TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: MB-092611
 METHOD BLANK

Lab Sample ID: MB-092611
 LIMS ID: 11-20263
 Matrix: Soil
 Data Release Authorized: *MW*
 Reported: 09/28/11

QC Report No: TM63-Kennedy Jenks Consultants
 Project: Ecology Cornet Bay
 Event: NA
 Date Sampled: NA
 Date Received: NA

Date Analyzed: 09/26/11 12:29
 Instrument/Analyst: PID2/MH

Purge Volume: 5.0 mL
 Sample Amount: 100 mg-dry-wt

CAS Number	Analyte	RL	Result
71-43-2	Benzene	12	< 12 U
108-88-3	Toluene	12	< 12 U
100-41-4	Ethylbenzene	12	< 12 U
179601-23-1	m, p-Xylene	25	< 25 U
95-47-6	o-Xylene	12	< 12 U

Gasoline Range Hydrocarbons 5.0 < 5.0 U GAS ID ---

BETX Surrogate Recovery

Trifluorotoluene	89.9%
Bromobenzene	92.6%

Gasoline Surrogate Recovery

Trifluorotoluene	97.0%
Bromobenzene	97.3%

BETX values reported in µg/kg (ppb)
 Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.
 Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Data File: /chem3/pid2.1/092611-1.b/0926a006.d

Date : 26-SEP-2011 12:29

Client ID:

Sample Info: HB0926

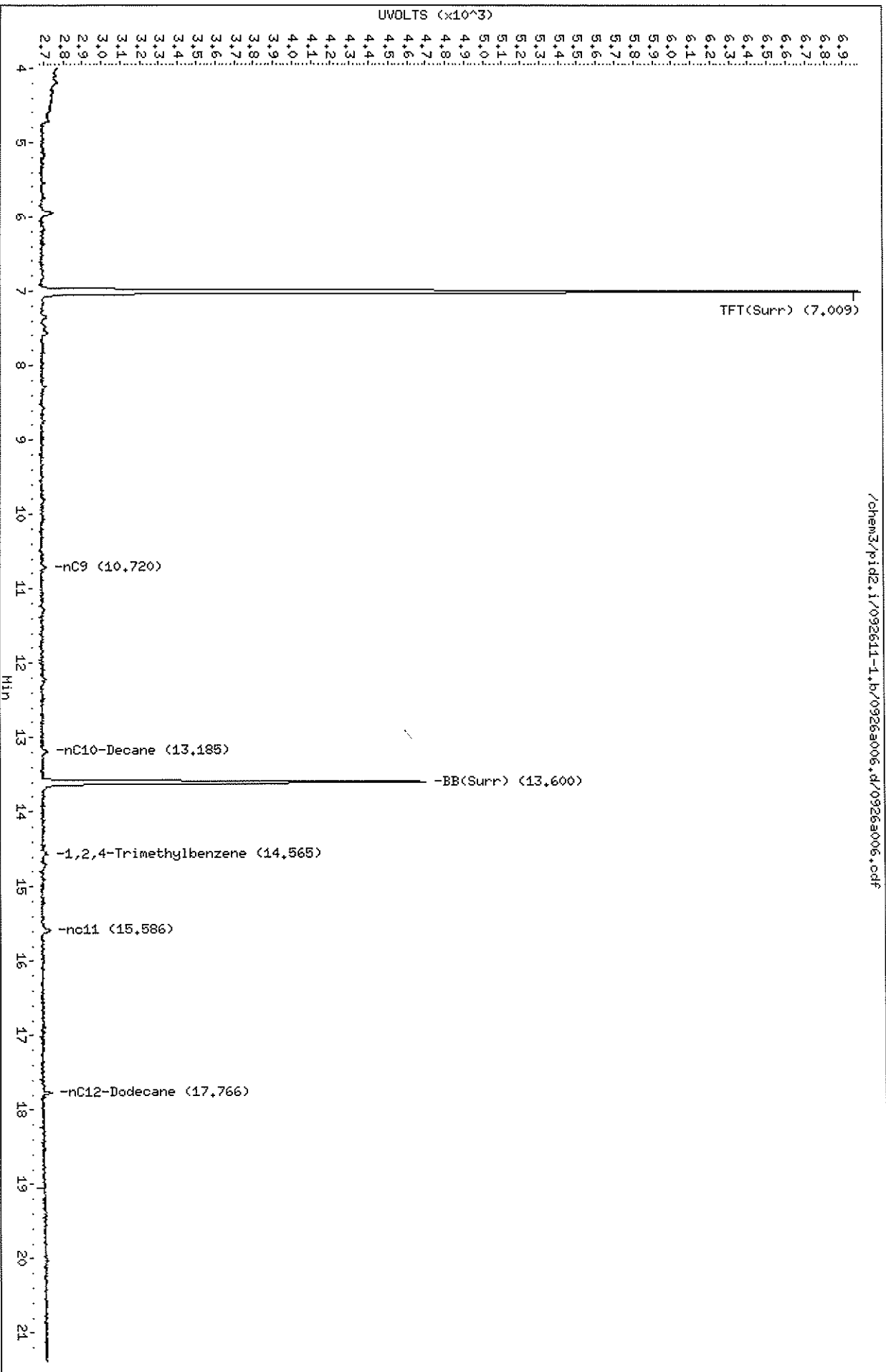
Column phase: RTX 502-2 FID

Instrument: pid2.1

Operator: PC/HS

Column diameter: 0.18

Page 1



Data File: /chem3/pid2.i/092611-2.b/0926a006.d

Date: 26-SEP-2011 12:29

Client ID:

Sample Info: HB0926

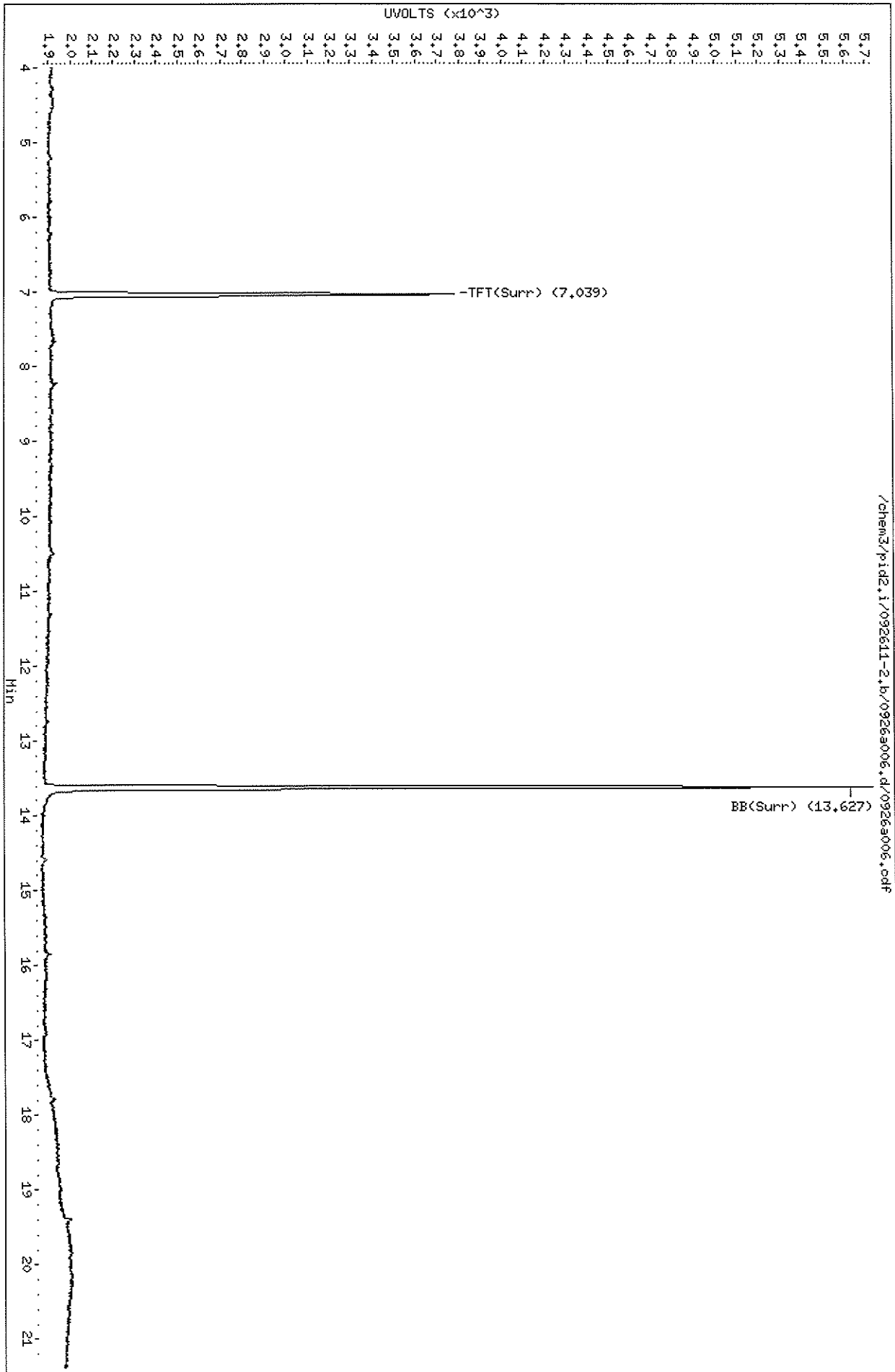
Column phase: RTX 502-2 PID

Instrument: pid2.i

Operator: PC/HS

Column diameter: 0.18

/chem3/pid2.i/092611-2.b/0926a006.d/0926a006.pdf



ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: KJ-B20-7

SAMPLE

Lab Sample ID: TM63A

LIMS ID: 11-20243

Matrix: Soil

Data Release Authorized: *YWN*

Reported: 09/28/11

QC Report No: TM63-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Event: NA

Date Sampled: 09/13/11

Date Received: 09/16/11

Date Analyzed: 09/23/11 08:46

Instrument/Analyst: PID3/MH

Purge Volume: 5.0 mL

Sample Amount: 7.2 mg-dry-wt

Percent Moisture: 16.5%

CAS Number	Analyte	RL	Result	
71-43-2	Benzene	170	580	
108-88-3	Toluene	170	6,600	
100-41-4	Ethylbenzene	170	9,200	
179601-23-1	m,p-Xylene	350	33,000	
95-47-6	o-Xylene	170	12,000	
	Gasoline Range Hydrocarbons	70	760	GAS ID GAS
BETX Surrogate Recovery				
	Trifluorotoluene	95.8%		
	Bromobenzene	94.1%		
Gasoline Surrogate Recovery				
	Trifluorotoluene	98.0%		
	Bromobenzene	98.4%		

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

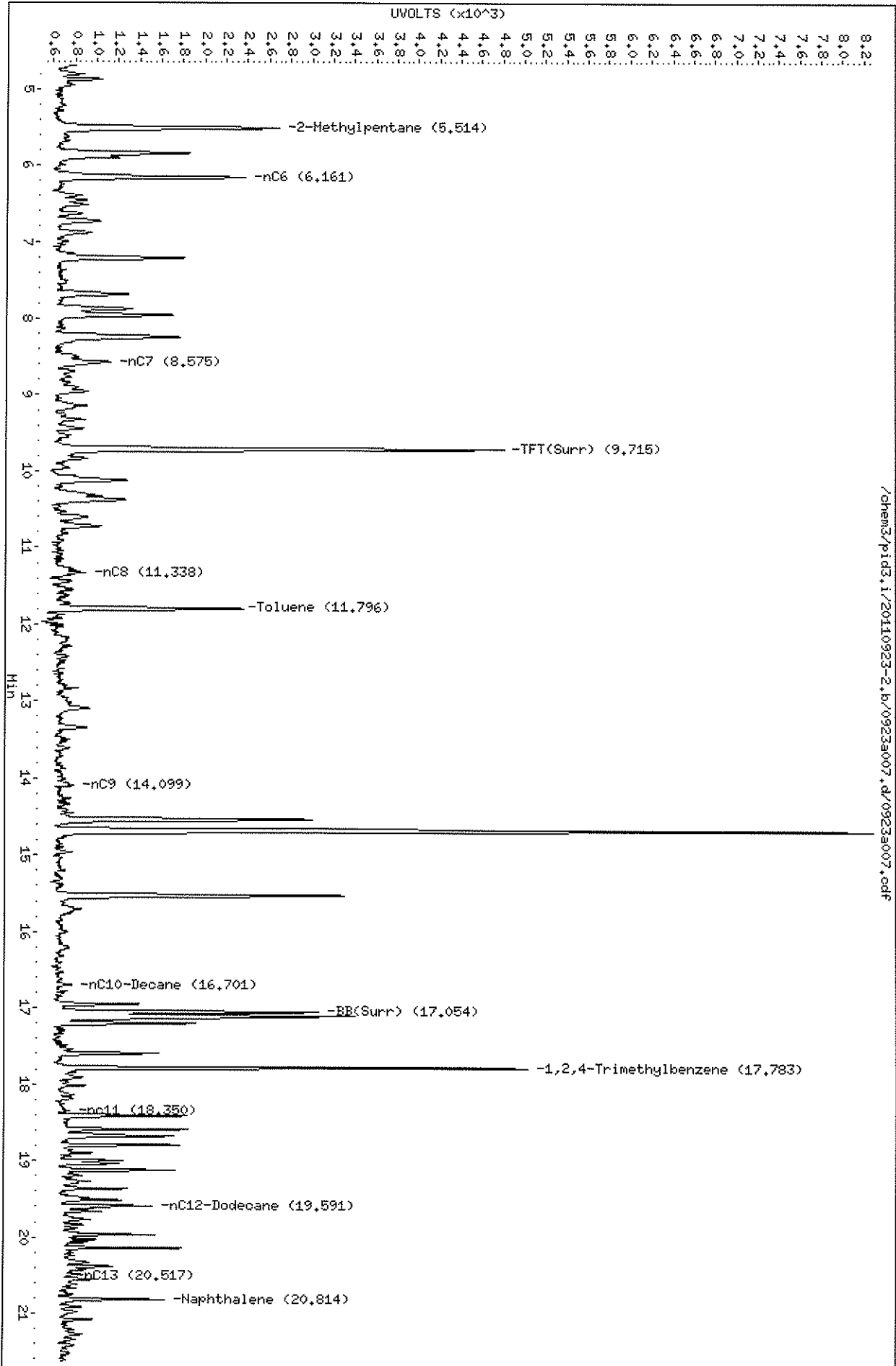
Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

Data File: /chem3/pid3.i/20110923-2.b/0923a007.d
Date: 23-SEP-2011 08:46
Client ID: KJ-B20-7
Sample Info: TH63A

Column phase: RTX 502-2 FID

Instrument: pid3.i
Operator: HH
Column diameter: 0.18

/chem3/pid3.i/20110923-2.b/0923a007.d/0923a007.cdf



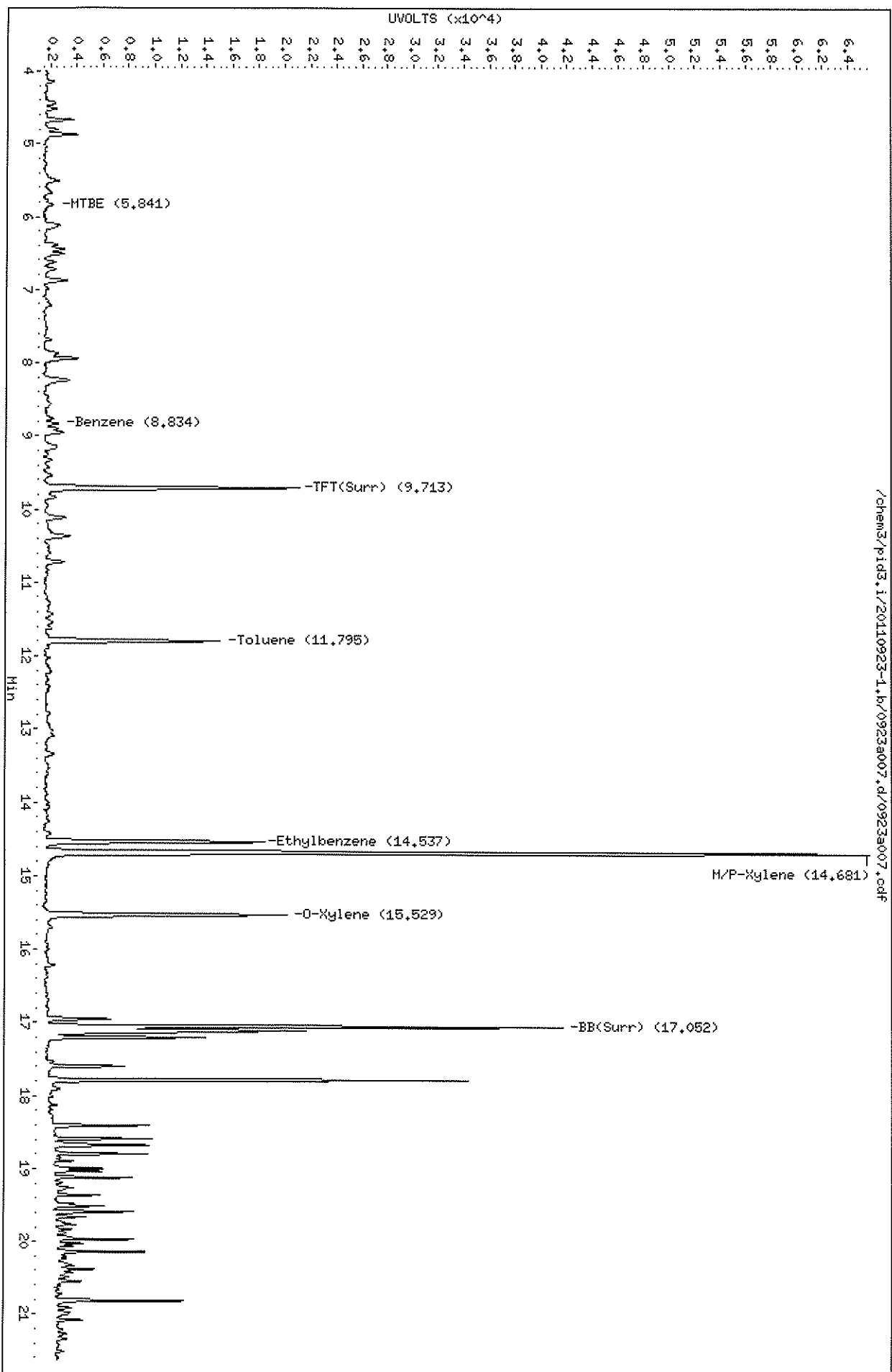
TH63A 0923A

Data File: /chem3/pid3.i/20110923-1.b/0923a007.d
Date: 23-SEP-2011 08:46
Client ID: KJ-B20-7
Sample Info: TM63A

Column phase: RTX 502-2 PID

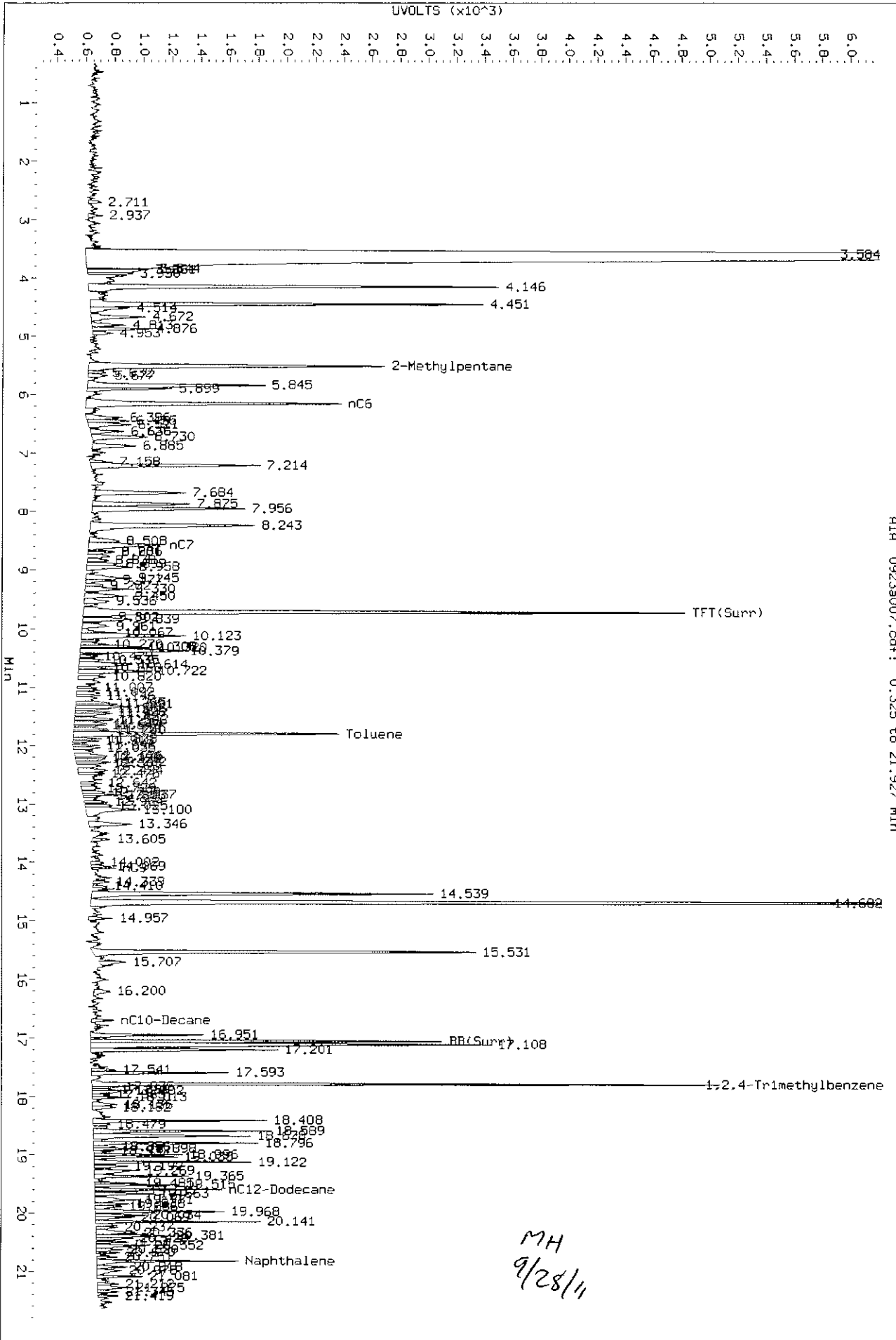
/chem3/pid3.i/20110923-1.b/0923a007.d/0923a007.cdf

Instrument: pid3.i
Operator: MH
Column diameter: 0.18



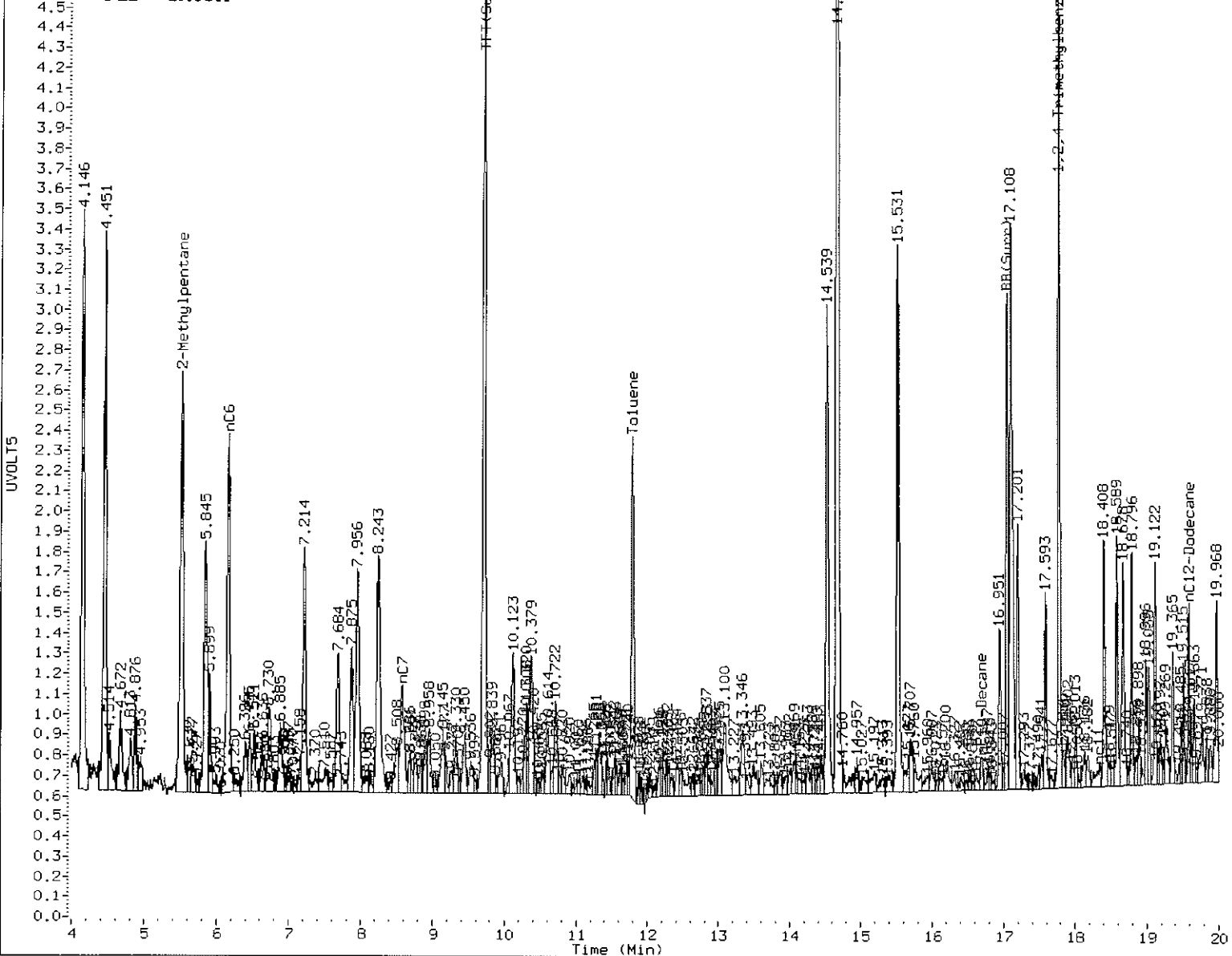
Data File: /chem3/pid3.1/20110923-2.b/0923a007.d/0923a007.cdf
Injection Date: 23-SEP-2011 09:46
Instrument: pid3.1
Client Sample ID: KJ-B20-7

0923a007.cdf: 0.325 to 21.927 Min



MH
9/28/11

FID TM63A



MANUAL INTEGRATION

- Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: MH

Date: 9/28/11

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021EMod
TPHG by Method NWTPHG
Page 1 of 1

Sample ID: KJ-B21-3
SAMPLE



Lab Sample ID: TM63B
LIMS ID: 11-20244
Matrix: Soil
Data Release Authorized: *MM*
Reported: 09/28/11

QC Report No: TM63-Kennedy Jenks Consultants
Project: Ecology Cornet Bay
Event: NA
Date Sampled: 09/13/11
Date Received: 09/16/11

Date Analyzed: 09/23/11 09:12
Instrument/Analyst: PID3/MH

Purge Volume: 5.0 mL
Sample Amount: 7.0 mg-dry-wt
Percent Moisture: 21.2%

CAS Number	Analyte	RL	Result
71-43-2	Benzene	180	15,000
108-88-3	Toluene	180	14,000
100-41-4	Ethylbenzene	180	3,000
179601-23-1	m,p-Xylene	360	12,000
95-47-6	o-Xylene	180	4,400

Gasoline Range Hydrocarbons	72	230	GAS ID GAS
-----------------------------	----	-----	---------------

BETX Surrogate Recovery

Trifluorotoluene	91.1%
Bromobenzene	89.4%

Gasoline Surrogate Recovery

Trifluorotoluene	94.9%
Bromobenzene	93.6%

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
GRO: Positive result that does not match an identifiable gasoline pattern.

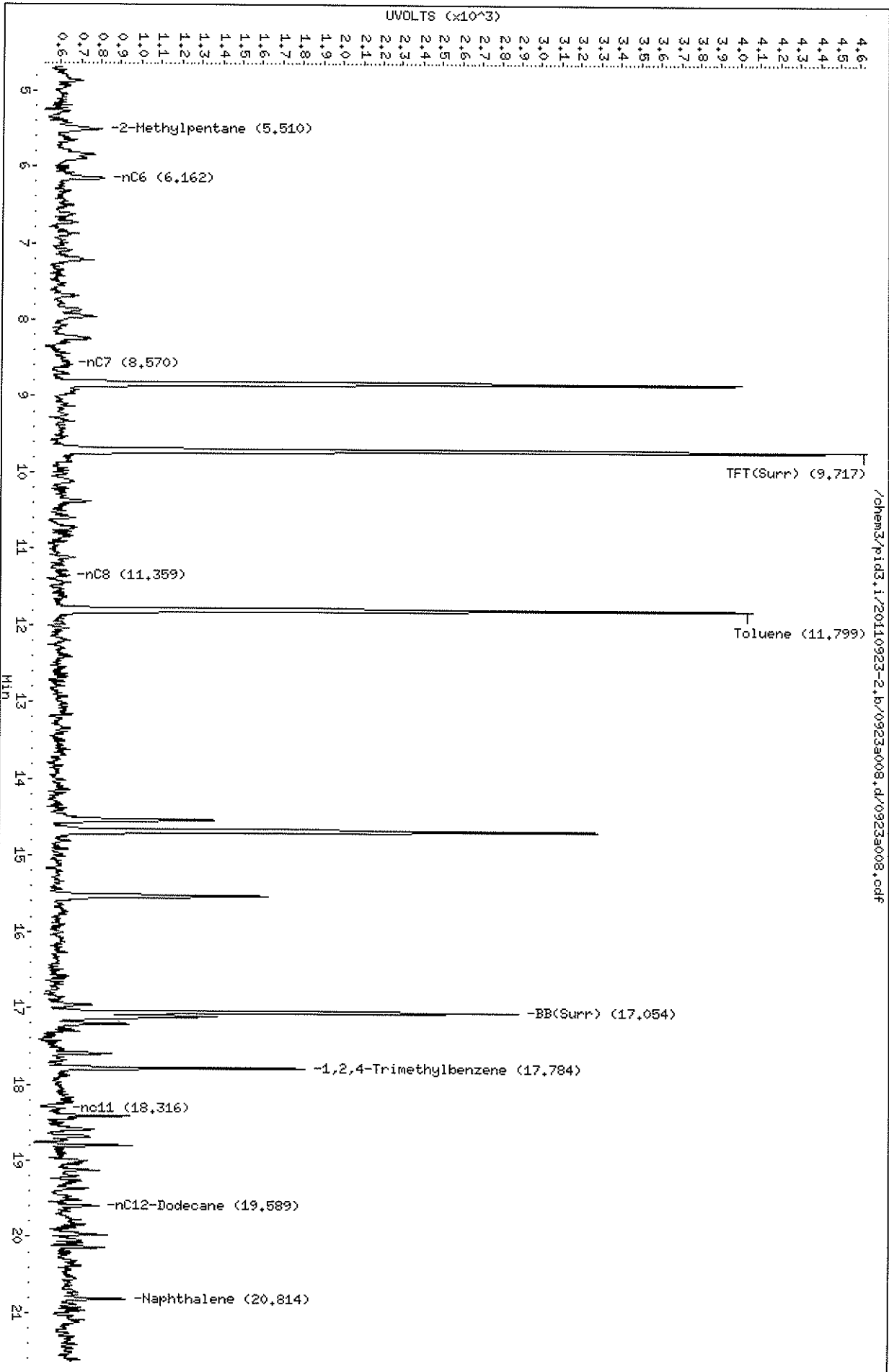
Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

Data File: /chem3/pid3.i/20110923-2.b/09233008.d
Date: 23-SEP-2011 09:12
Client ID: KJ-B21-3
Sample Info: TM63B

Column Phase: RTX 502-2 FID

Instrument: pid3.i
Operator: MH
Column diameter: 0.18

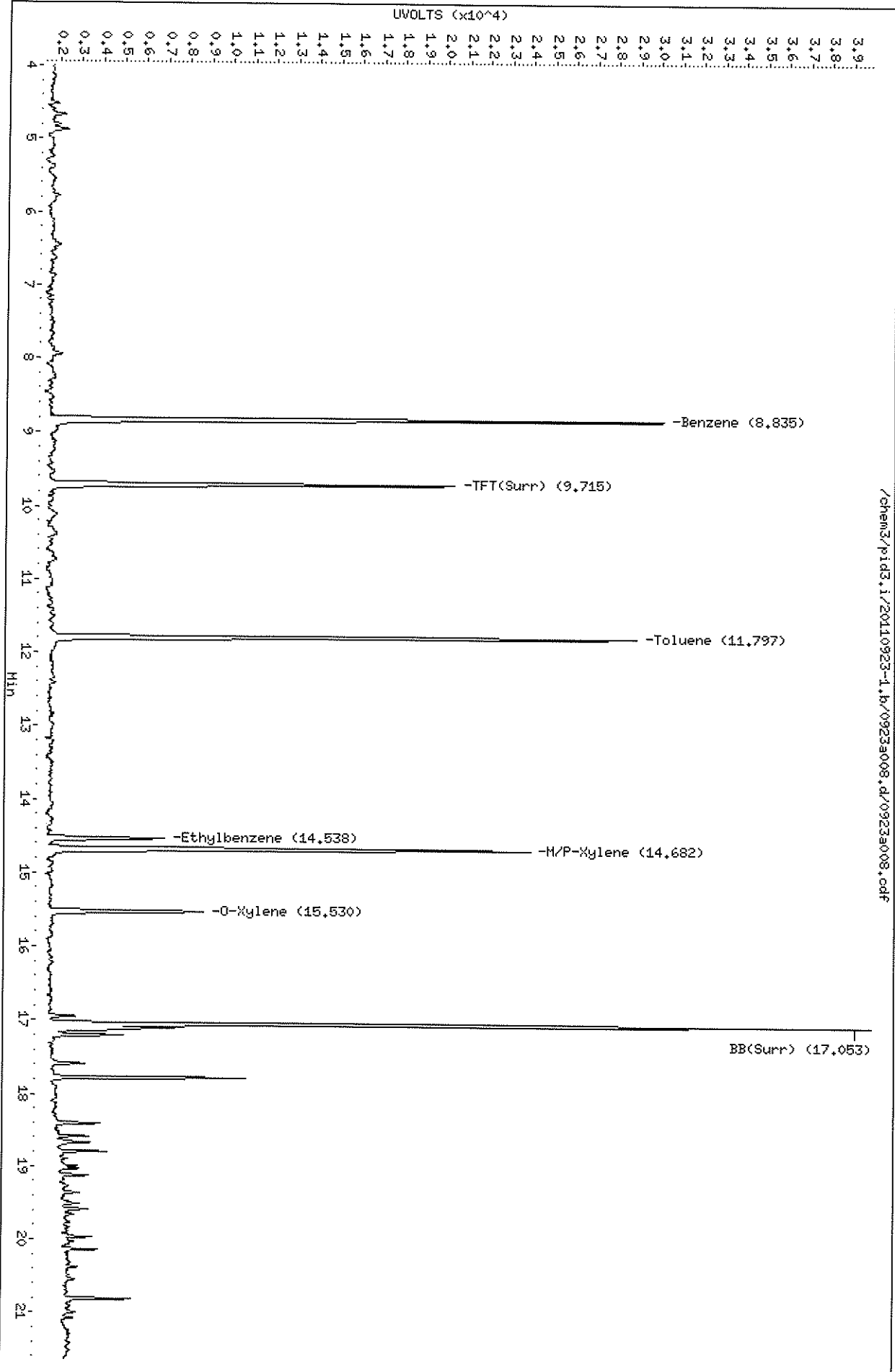


09233008.d

Data File: /chem3/pid3.i/20110923-1.b/0923a008.d
Date: 23-SEP-2011 09:12
Client ID: KJ-B24-3
Sample Info: TH638

Column phase: RTX 502-2 PID

Instrument: pid3.i
Operator: HH
Column diameter: 0.18



/chem3/pid3.i/20110923-1.b/0923a008.d/0923a008.cdf

11020000



Lab Sample ID: TM63C
 LIMS ID: 11-20245
 Matrix: Soil
 Data Release Authorized: *MW*
 Reported: 09/28/11

QC Report No: TM63-Kennedy Jenks Consultants
 Project: Ecology Cornet Bay
 Event: NA
 Date Sampled: 09/13/11
 Date Received: 09/16/11

Date Analyzed: 09/23/11 09:39
 Instrument/Analyst: PID3/MH

Purge Volume: 5.0 mL
 Sample Amount: 94 mg-dry-wt
 Percent Moisture: 9.6%

CAS Number	Analyte	RL	Result
71-43-2	Benzene	13	< 13 U
108-88-3	Toluene	13	< 13 U
100-41-4	Ethylbenzene	13	< 13 U
179601-23-1	m,p-Xylene	27	< 27 U
95-47-6	o-Xylene	13	29

Gasoline Range Hydrocarbons 5.3 15 GAS ID GRO

BETX Surrogate Recovery

Trifluorotoluene	96.3%
Bromobenzene	95.5%

Gasoline Surrogate Recovery

Trifluorotoluene	99.6%
Bromobenzene	97.9%

BETX values reported in µg/kg (ppb)
 Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

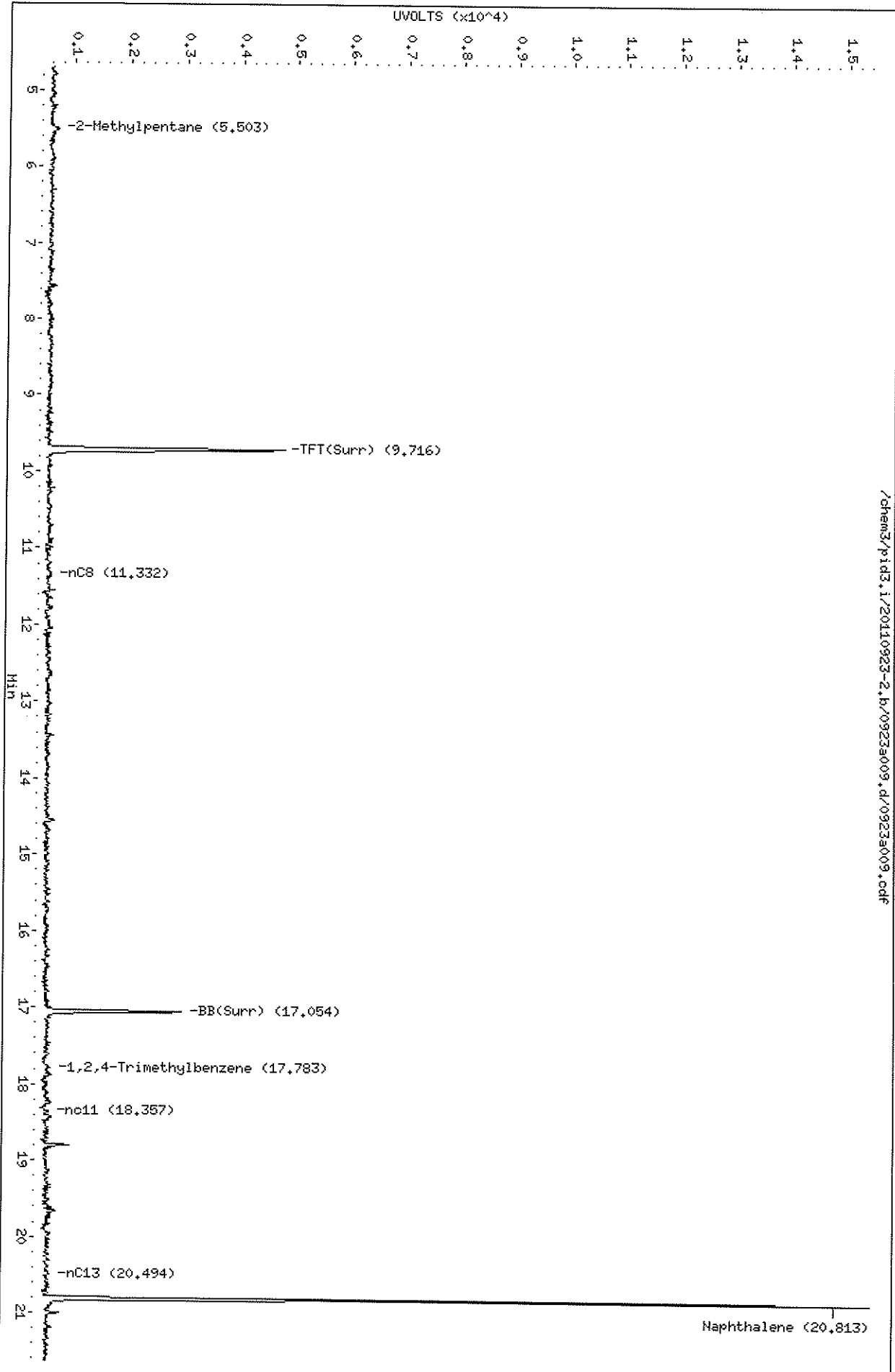
Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

Data File: /chem3/pid3.i/20110923-2.b/0923a009.d
Date : 23-SEP-2011 09:39
Client ID: KJ-B100
Sample Info: TH63C

Column phase: RTX 502-2 FID

Instrument: pid3.i
Operator: NH
Column diameter: 0.18

/chem3/pid3.i/20110923-2.b/0923a009.d/0923a009.cdf



109880

ORGANICS ANALYSIS DATA SHEET
 BETX by Method SW8021BMod
 TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: KJ-B22-5
 SAMPLE

Lab Sample ID: TM63D
 LIMS ID: 11-20246
 Matrix: Soil
 Data Release Authorized: *MMW*
 Reported: 09/28/11

QC Report No: TM63-Kennedy Jenks Consultants
 Project: Ecology Cornet Bay
 Event: NA
 Date Sampled: 09/13/11
 Date Received: 09/16/11

Date Analyzed: 09/23/11 10:05
 Instrument/Analyst: PID3/MH

Purge Volume: 5.0 mL
 Sample Amount: 8.4 mg-dry-wt
 Percent Moisture: 17.1%

CAS Number	Analyte	RL	Result	
71-43-2	Benzene	150	4,900	
108-88-3	Toluene	150	89,000	
100-41-4	Ethylbenzene	150	50,000	
179601-23-1	m,p-Xylene	300	200,000	
95-47-6	o-Xylene	150	72,000	
	Gasoline Range Hydrocarbons	60	4,600	GAS ID GAS
BETX Surrogate Recovery				
	Trifluorotoluene	100%		
	Bromobenzene	103%		
Gasoline Surrogate Recovery				
	Trifluorotoluene	101%		
	Bromobenzene	120%		

BETX values reported in µg/kg (ppb)
 Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

Data File: /chem3/pid3.i/20110923-2.b/0923a010.d

Date: 23-SEP-2011 10:05

Client ID: KJ-B22-5

Sample Inlet: TH63D

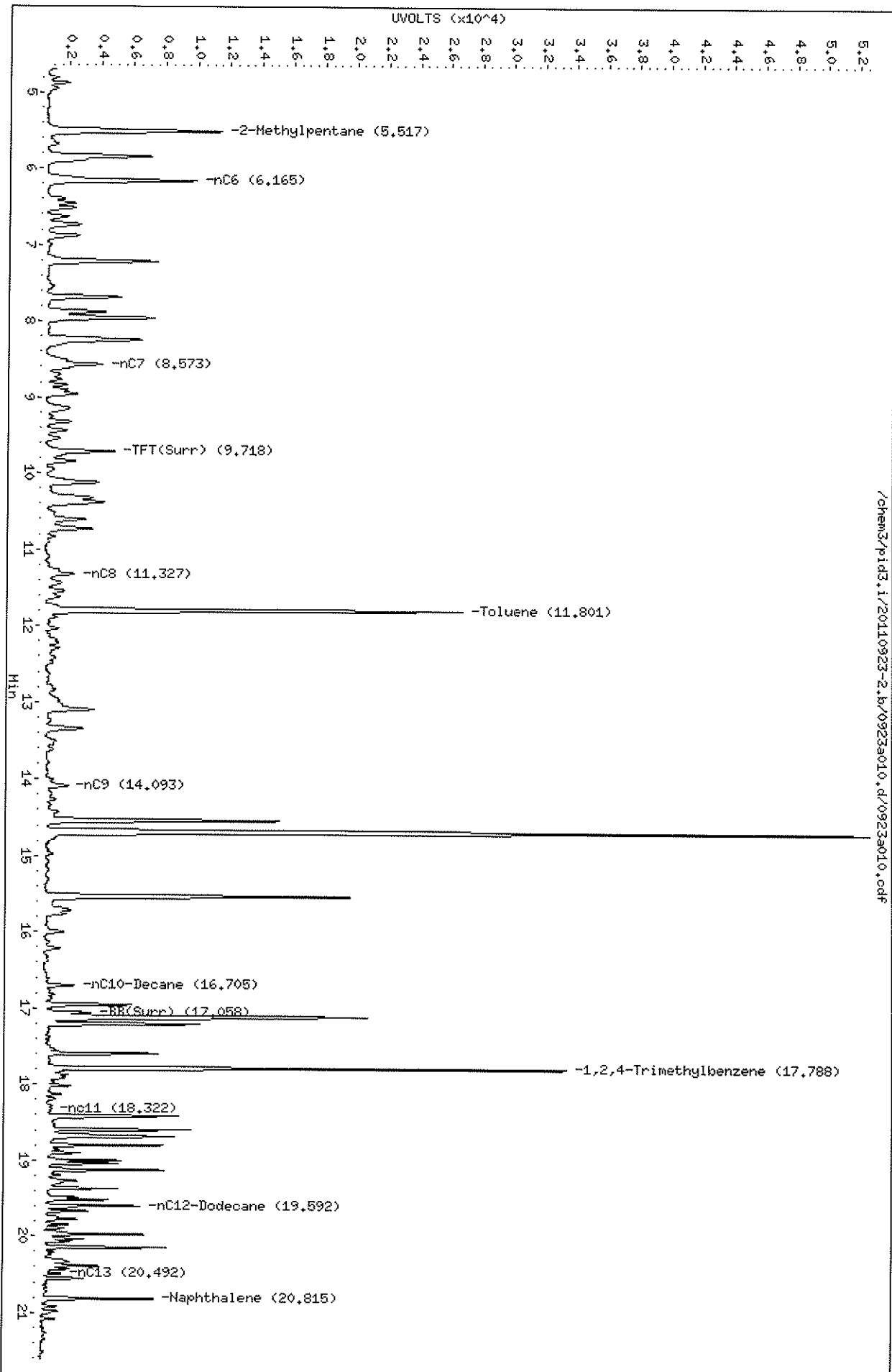
Instrument: pid3.i

Operator: HH

Column diameter: 0.18

Column phase: RTX 502-2 FID

/chem3/pid3.i/20110923-2.b/0923a010.d/0923a010.cdf

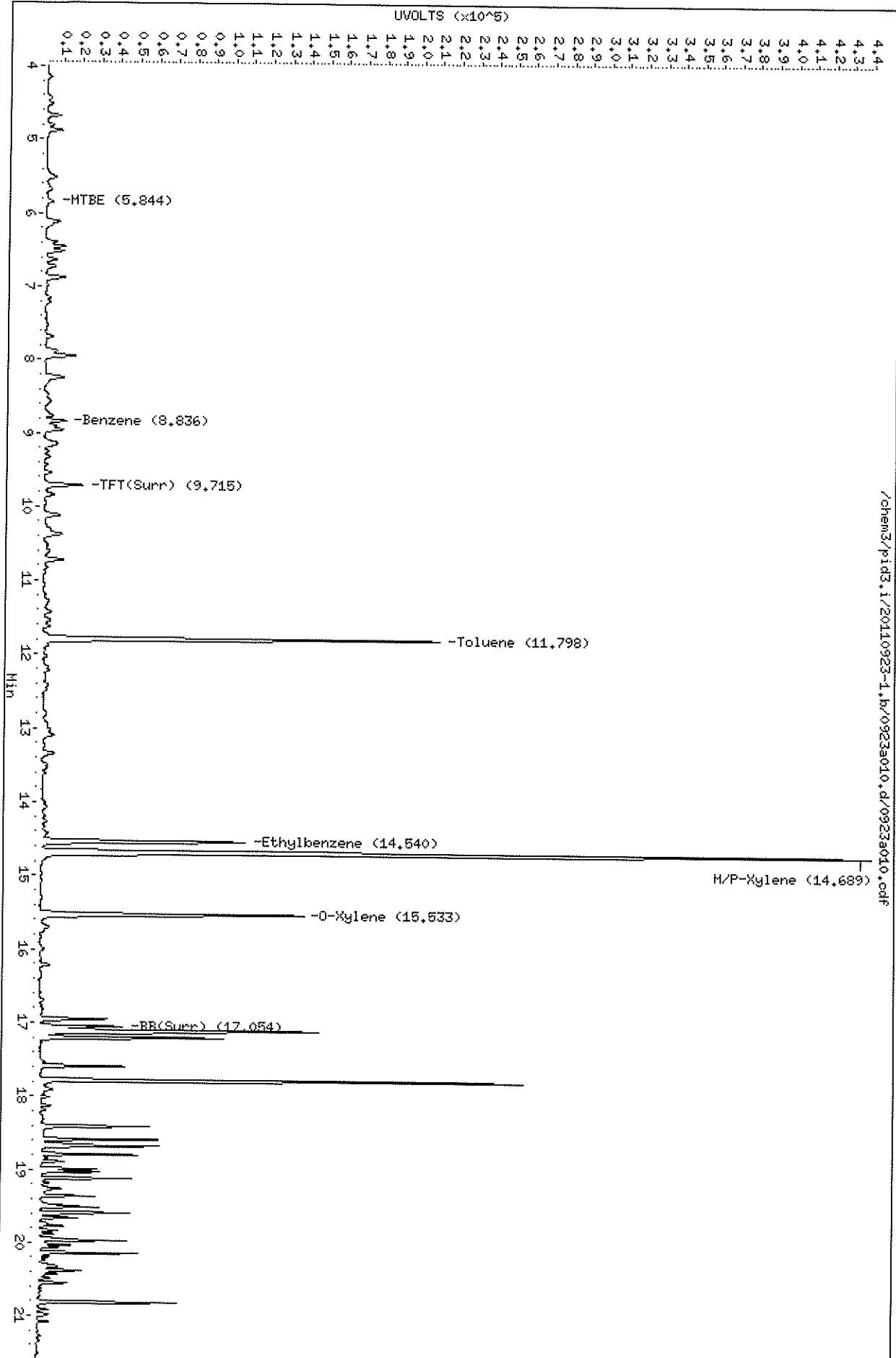


1100 00070

Data File: /chem3/pid3.i/20110923-1.b/0923a010.d
Date: 23-SEP-2011 10:05
Client ID: KJ-B22-5
Sample Info: TM63D

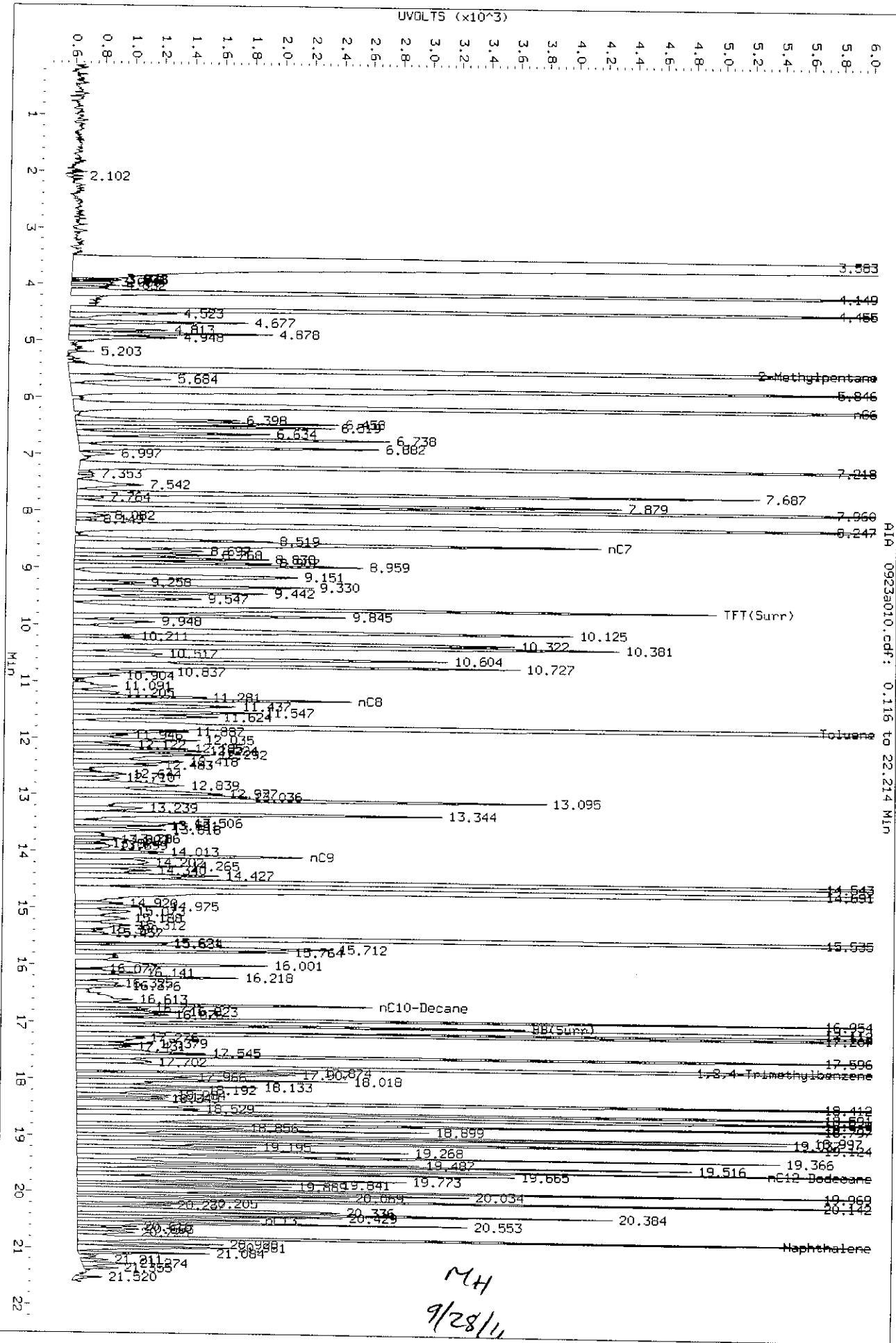
Column Phase: RTX 502-2 PID

Instrument: pid3.i
Operator: NH
Column diameter: 0.18



10000000
10000000
10000000
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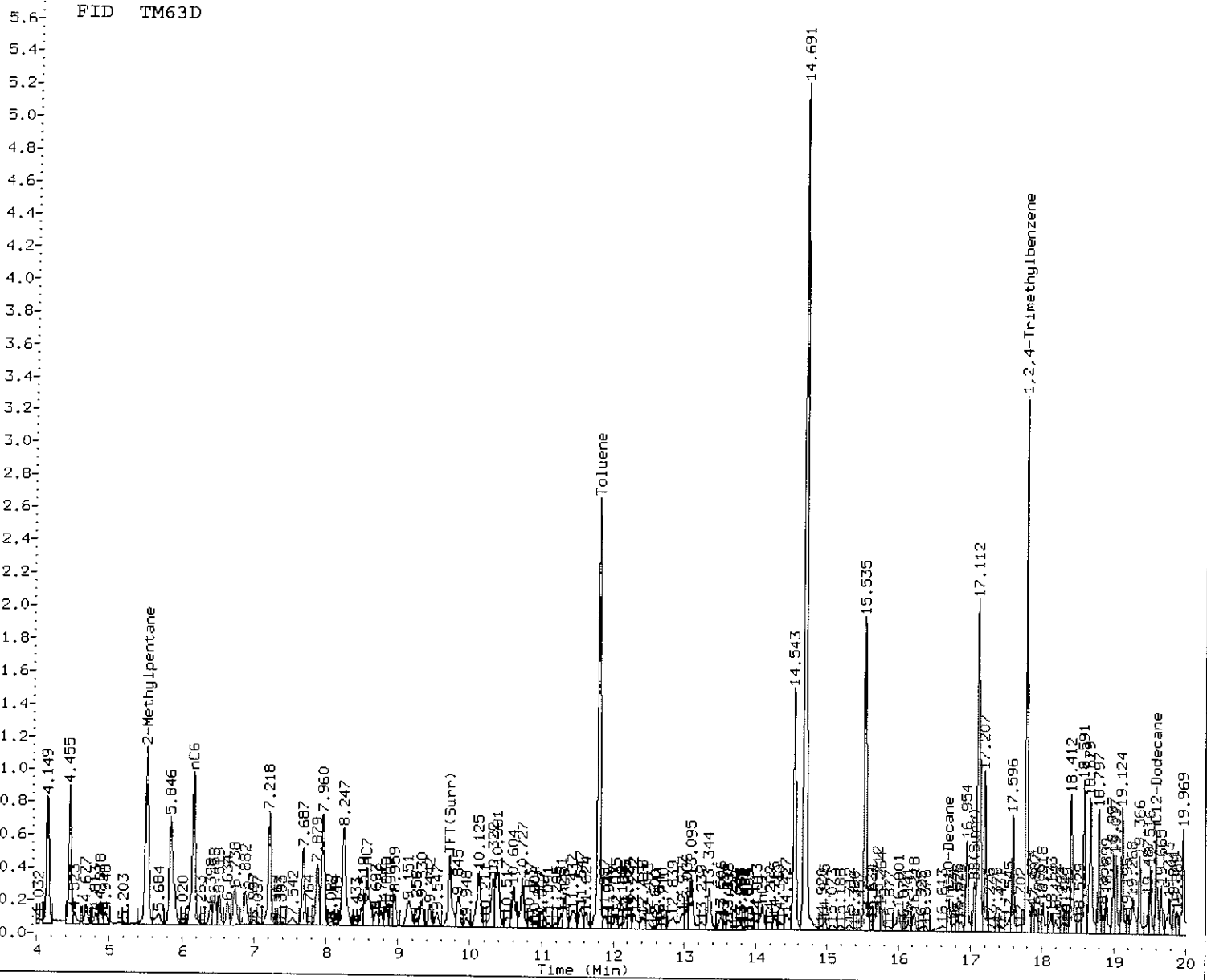
Data File: /chem3/pid3.1/20110923-2.b/0923a010.d/0923a010.cdf
Injection Date: 23-SEP-2011 10:05
Instrument: pid3.1
Client Sample ID: KI-822-5



AIA 0923a010.cdf: 0.116 to 22.214 Min

FID TM63D

UVOLTS



MANUAL INTEGRATION

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: MH Date: 9/28/11

ORGANICS ANALYSIS DATA SHEET
 BETX by Method SW8021BMod
 TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: KJ-B23-8
 SAMPLE



Lab Sample ID: TM63E
 LIMS ID: 11-20247
 Matrix: Soil
 Data Release Authorized: *YWN*
 Reported: 09/28/11

QC Report No: TM63-Kennedy Jenks Consultants
 Project: Ecology Cornet Bay
 Event: NA
 Date Sampled: 09/14/11
 Date Received: 09/16/11

Date Analyzed: 09/23/11 10:31
 Instrument/Analyst: PID3/MH

Purge Volume: 5.0 mL
 Sample Amount: 86 mg-dry-wt
 Percent Moisture: 18.8%

CAS Number	Analyte	RL	Result
71-43-2	Benzene	14	190
108-88-3	Toluene	14	26
100-41-4	Ethylbenzene	14	720
179601-23-1	m,p-Xylene	29	970
95-47-6	o-Xylene	14	40

Gasoline Range Hydrocarbons 5.8 13 GAS ID GAS

BETX Surrogate Recovery

Trifluorotoluene	95.5%
Bromobenzene	95.6%

Gasoline Surrogate Recovery

Trifluorotoluene	96.9%
Bromobenzene	98.7%

BETX values reported in µg/kg (ppb)
 Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.

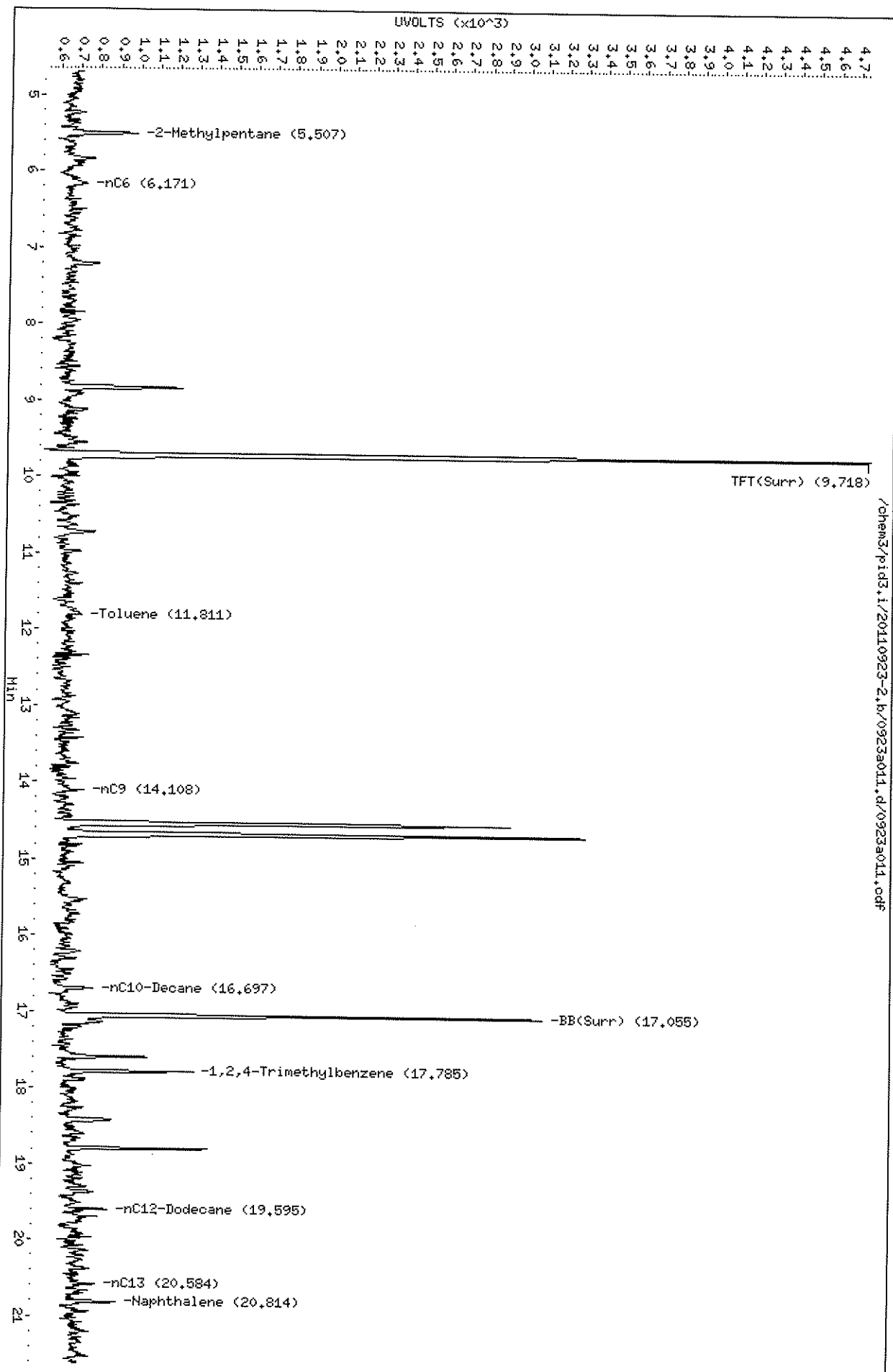
Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

Data File: /chem3/pid3.i/20110923-2.b/0923a011.d
Date: 23-SEP-2011 10:34
Client ID: KJ-B23-8
Sample Info: TH63E

Column phase: RTX 502-2 FID

Instrument: pid3.i
Operator: HH
Column diameter: 0.18



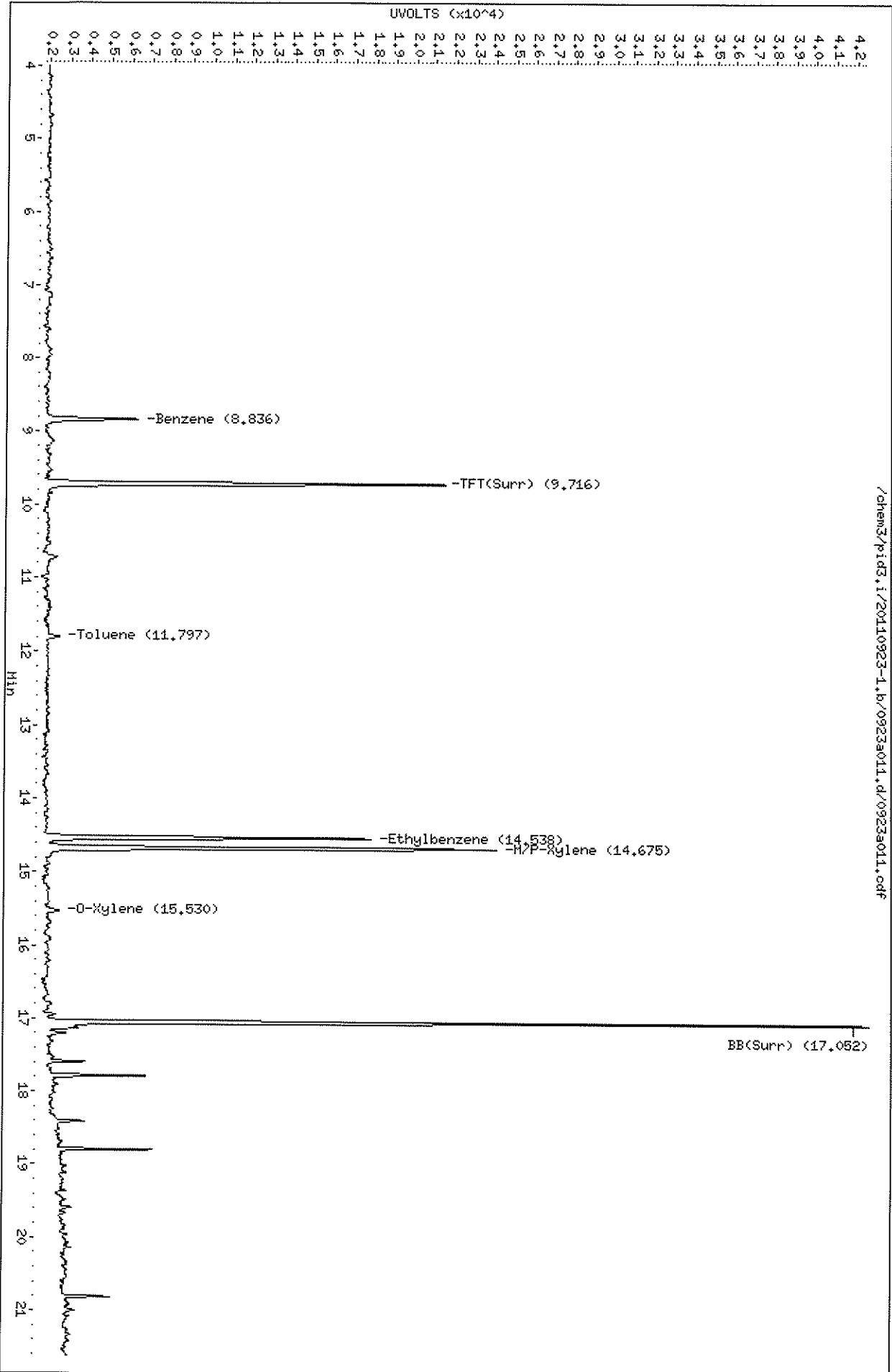
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Data File: /chem3/pid3.i/20110923-1.b/0923a011.d
Date: 23-SEP-2011 10:31
Client ID: KJ-B23-8
Sample Info: TMS3E

Column phase: RTX 502-2 P1D

/chem3/pid3.i/20110923-1.b/0923a011.d/0923a011.cdf

Instrument: pid3.i
Operator: HH
Column diameter: 0.18



ORGANICS ANALYSIS DATA SHEET
 BETX by Method SW8021EMod
 TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: KJ-B24-7
 SAMPLE



Lab Sample ID: TM63F
 LIMS ID: 11-20248
 Matrix: Soil
 Data Release Authorized: *VWV*
 Reported: 09/28/11

QC Report No: TM63-Kennedy Jenks Consultants
 Project: Ecology Cornet Bay
 Event: NA
 Date Sampled: 09/14/11
 Date Received: 09/16/11

Date Analyzed: 09/23/11 12:16
 Instrument/Analyst: PID3/MH

Purge Volume: 5.0 mL
 Sample Amount: 77 mg-dry-wt
 Percent Moisture: 19.0%

CAS Number	Analyte	RL	Result
71-43-2	Benzene	16	< 16 U
108-88-3	Toluene	16	< 16 U
100-41-4	Ethylbenzene	16	< 16 U
179601-23-1	m,p-Xylene	33	< 33 U
95-47-6	o-Xylene	16	34

Gasoline Range Hydrocarbons 6.5 < 6.5 U GAS ID ---

BETX Surrogate Recovery

Trifluorotoluene	92.7%
Bromobenzene	91.2%

Gasoline Surrogate Recovery

Trifluorotoluene	95.0%
Bromobenzene	95.2%

BETX values reported in µg/kg (ppb)
 Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

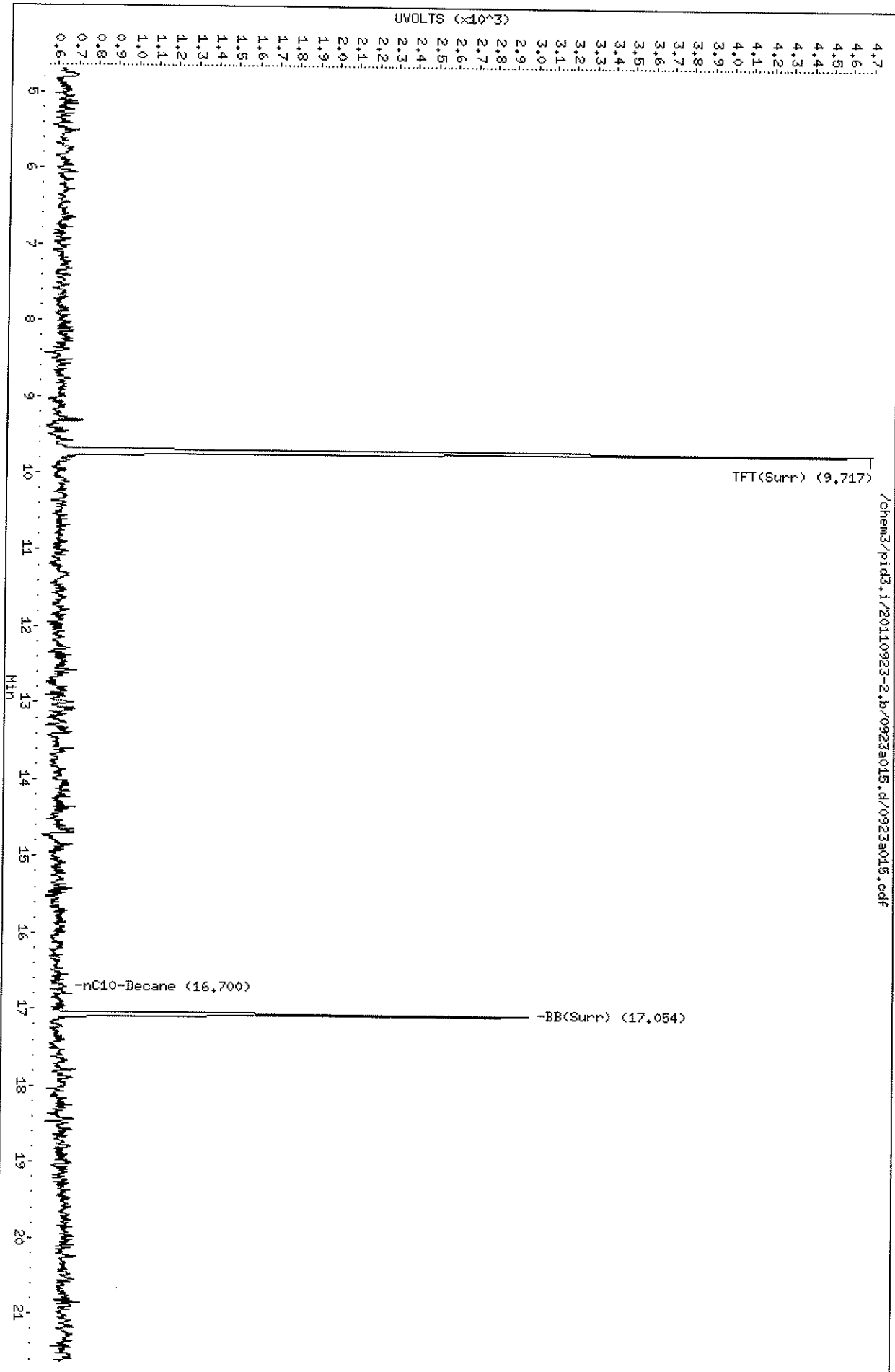
Data File: /chem3/pid3.i/20110923-2.b/0923a015.d
Date: 23-SEP-2011 12:16
Client ID: KJ-B24-7
Sample Info: TH63F

Column phase: RTX 502-2 FID

Instrument: pid3.i

Operator: MH

Column diameter: 0.18



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Data File: /chem3/pid3.i/20110923-1.b/0923a015.d
Date: 23-SEP-2011 12:16

Client ID: KJ-B24-7

Sample Info: TH63F

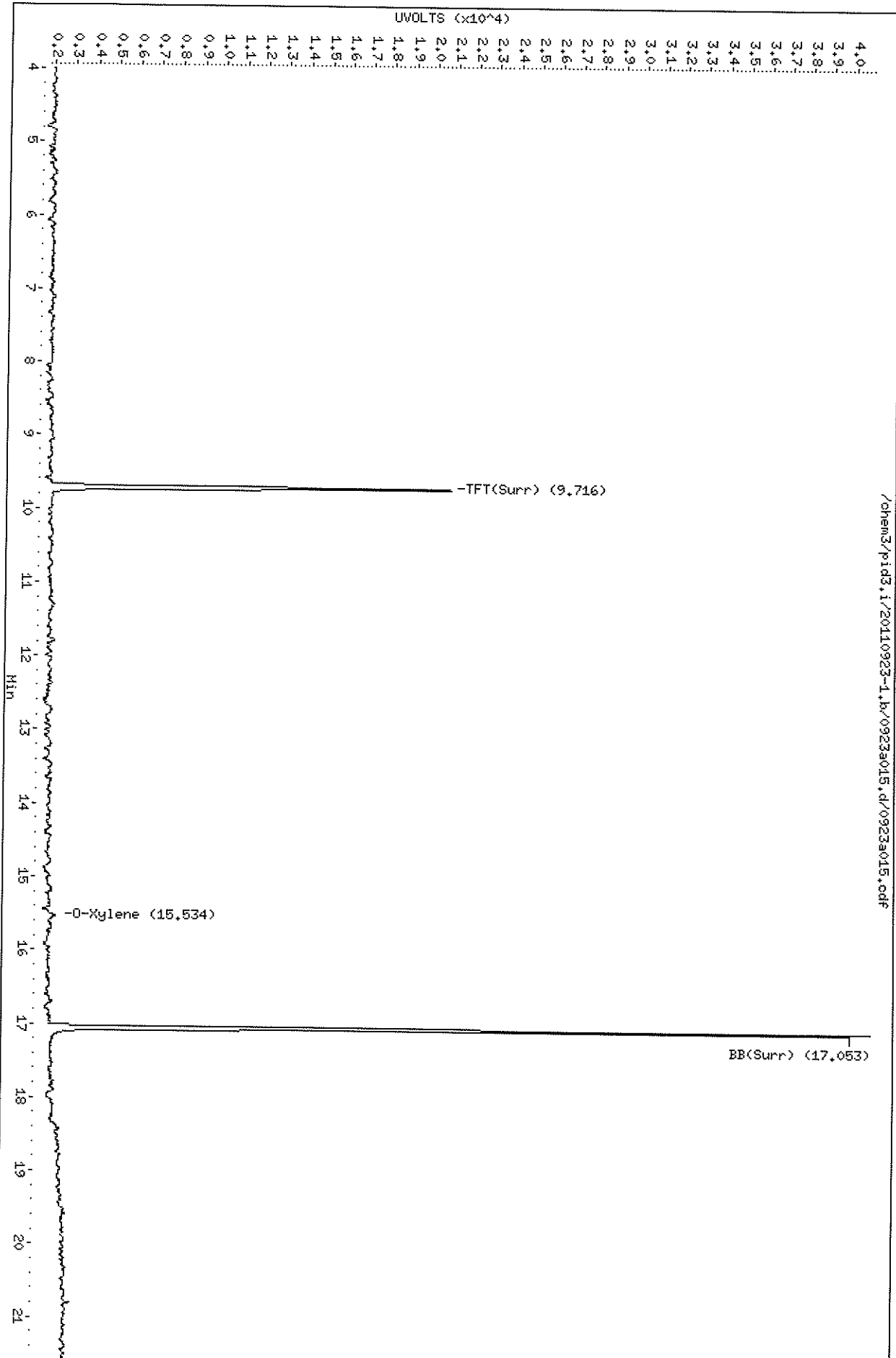
Column phase: RTX 502-2 PID

Instrument: pid3.i

Operator: MH

Column diameter: 0.18

/chem3/pid3.i/20110923-1.b/0923a015.d/0923a015.cdf



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ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: KJ-B25-4

SAMPLE

Lab Sample ID: TM63G

LIMS ID: 11-20249

Matrix: Soil

Data Release Authorized: *mm*

Reported: 09/28/11

QC Report No: TM63-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Event: NA

Date Sampled: 09/14/11

Date Received: 09/16/11

Date Analyzed: 09/23/11 12:42

Instrument/Analyst: PID3/MH

Purge Volume: 5.0 mL

Sample Amount: 70 mg-dry-wt

Percent Moisture: 21.8%

CAS Number	Analyte	RL	Result	
71-43-2	Benzene	18	< 18	U
108-88-3	Toluene	18	< 18	U
100-41-4	Ethylbenzene	18	< 18	U
179601-23-1	m,p-Xylene	36	< 36	U
95-47-6	o-Xylene	18	< 18	U
	Gasoline Range Hydrocarbons	7.1	< 7.1	U
				GAS ID ---

BETX Surrogate Recovery

Trifluorotoluene	92.4%
Bromobenzene	92.7%

Gasoline Surrogate Recovery

Trifluorotoluene	96.3%
Bromobenzene	97.9%

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

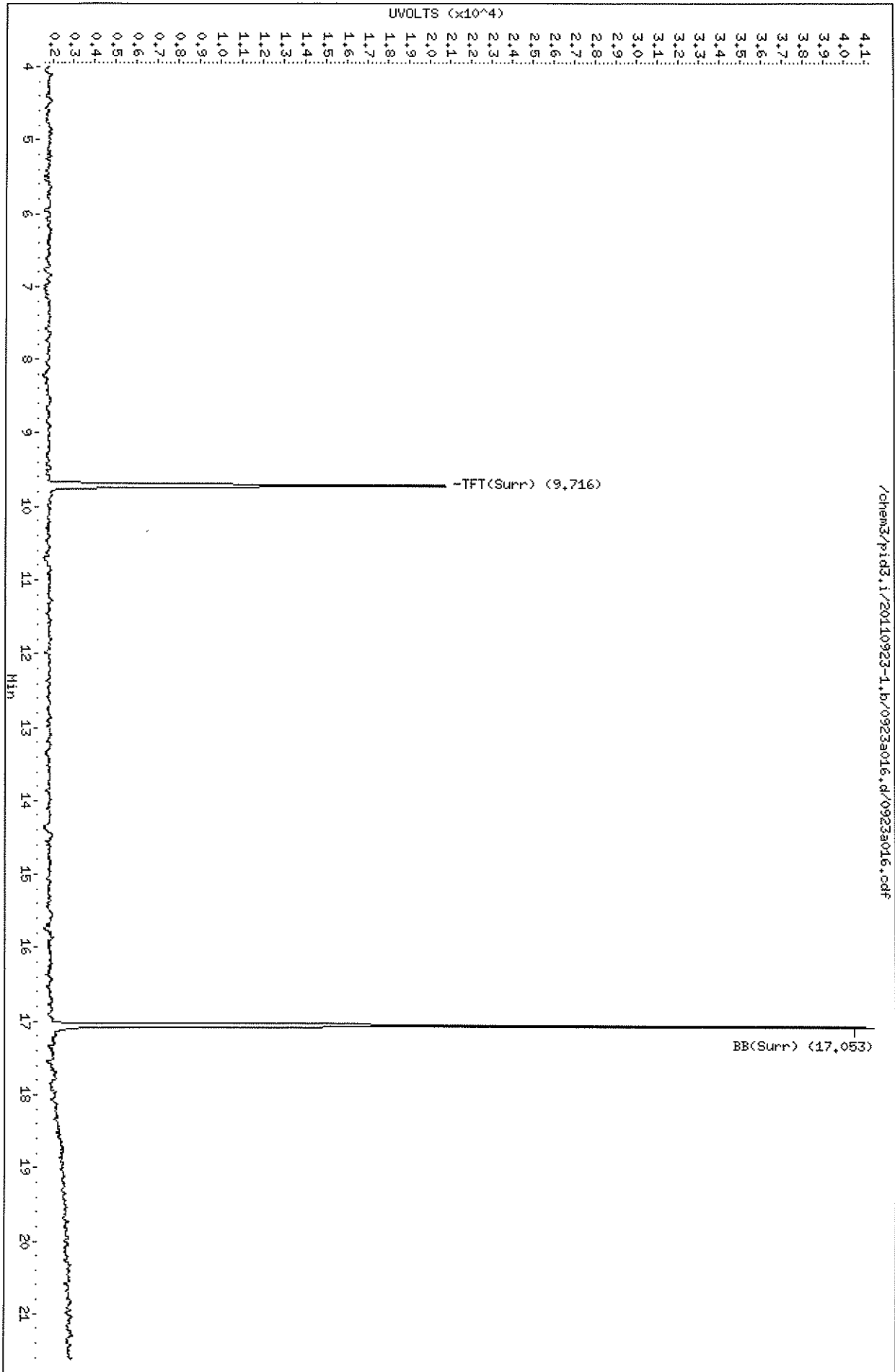
Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

Data File: /chem3/pid3.i/20110923-1.b/0923a016.d
Date: 23-SEP-2011 12:42
Client ID: KJ-B25-4
Sample Info: TH63C

Column phase: RTX 502-2 PID

Instrument: pid3.i
Operator: MH
Column diameter: 0.18



ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021EMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: KJ-B26-8

SAMPLE

Lab Sample ID: TM63H

LIMS ID: 11-20250

Matrix: Soil

Data Release Authorized: *WJW*

Reported: 09/28/11

QC Report No: TM63-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Event: NA

Date Sampled: 09/14/11

Date Received: 09/16/11

Date Analyzed: 09/23/11 13:08

Instrument/Analyst: PID3/MH

Purge Volume: 5.0 mL

Sample Amount: 86 mg-dry-wt

Percent Moisture: 21.0%

CAS Number	Analyte	RL	Result	GAS ID
71-43-2	Benzene	14	< 14 U	
108-88-3	Toluene	14	< 14 U	
100-41-4	Ethylbenzene	14	< 14 U	
179601-23-1	m, p-Xylene	29	< 29 U	
95-47-6	o-Xylene	14	78	
Gasoline Range Hydrocarbons		5.8	< 5.8 U	---
BETX Surrogate Recovery				
	Trifluorotoluene	93.4%		
	Bromobenzene	94.8%		
Gasoline Surrogate Recovery				
	Trifluorotoluene	93.3%		
	Bromobenzene	94.6%		

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

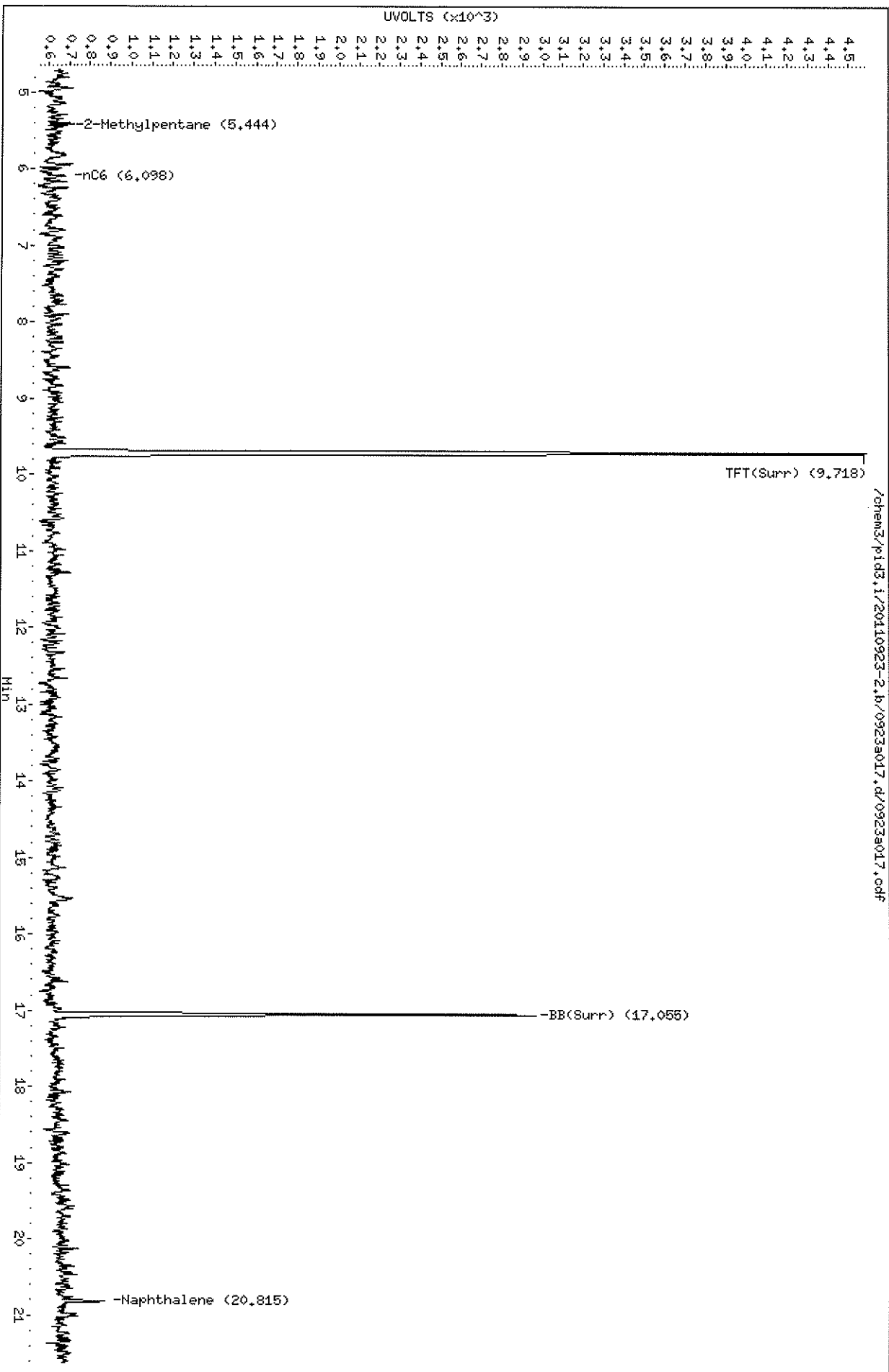
Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

Column phase: RTX 502-2 FID

Instrument: pid3.i

Operator: HH

Column diameter: 0.18



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Data File: /chem3/pid3.i/20110923-1.b/09233a017.d

Date : 23-SEP-2011 13:08

Client ID: KJ-B26-8

Sample Info: TM63H

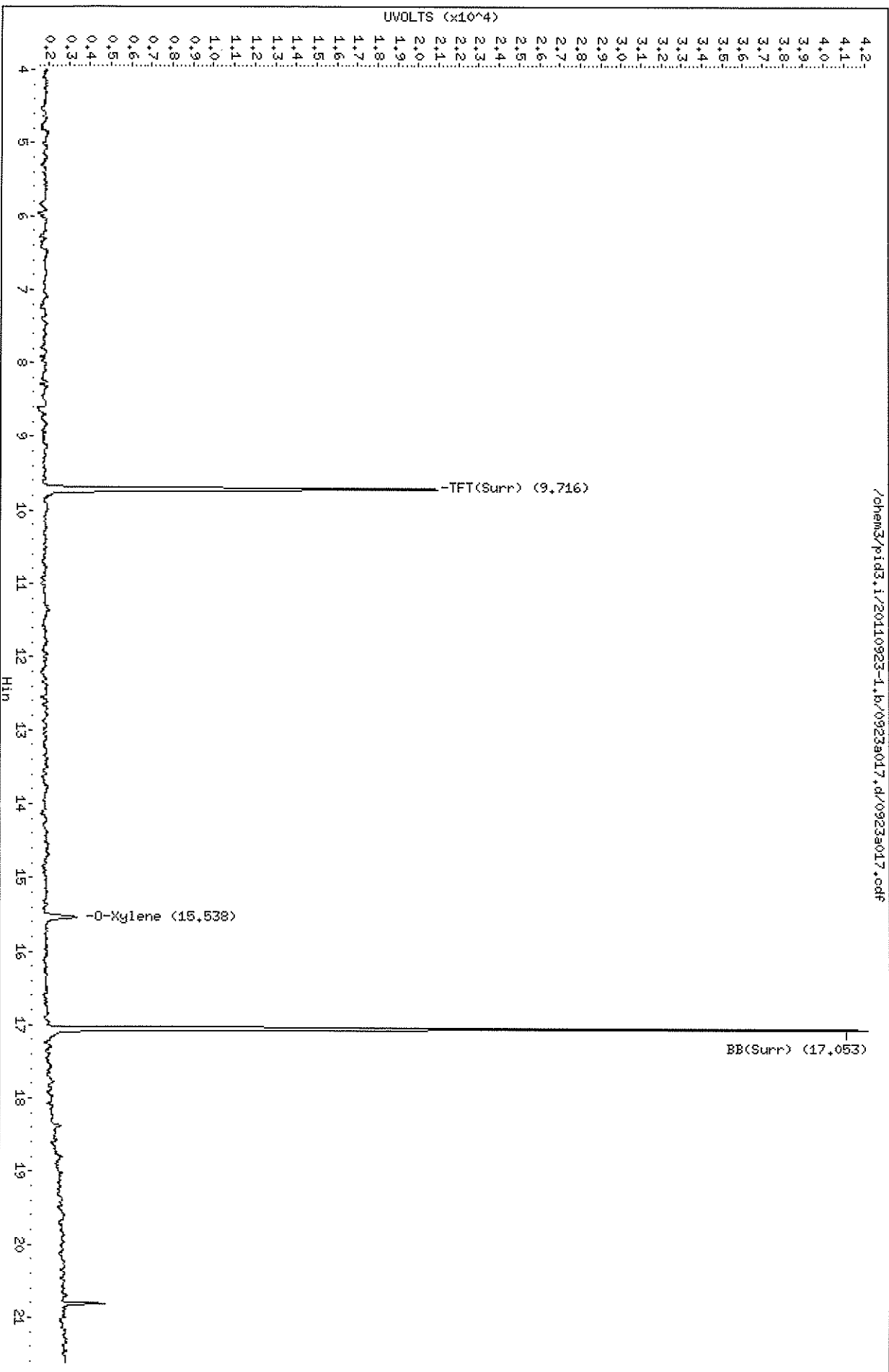
Column phase: RTX 502-2 PID

Instrument: pid3.i

Operator: HH

Column diameter: 0.18

Page 1



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ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: KJ-B27-12

SAMPLE

Lab Sample ID: TM63I

LIMS ID: 11-20251

Matrix: Soil

Data Release Authorized: *Www*

Reported: 09/28/11

QC Report No: TM63-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Event: NA

Date Sampled: 09/14/11

Date Received: 09/16/11

Date Analyzed: 09/23/11 13:35

Instrument/Analyst: PID3/MH

Purge Volume: 5.0 mL

Sample Amount: 72 mg-dry-wt

Percent Moisture: 18.9%

CAS Number	Analyte	RL	Result
71-43-2	Benzene	17	130
108-88-3	Toluene	17	< 17 U
100-41-4	Ethylbenzene	17	< 17 U
179601-23-1	m,p-Xylene	34	< 34 U
95-47-6	o-Xylene	17	61

Gasoline Range Hydrocarbons	6.9	< 6.9 U	GAS ID ---
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BETX Surrogate Recovery

Trifluorotoluene	92.4%
Bromobenzene	95.0%

Gasoline Surrogate Recovery

Trifluorotoluene	91.9%
Bromobenzene	96.8%

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

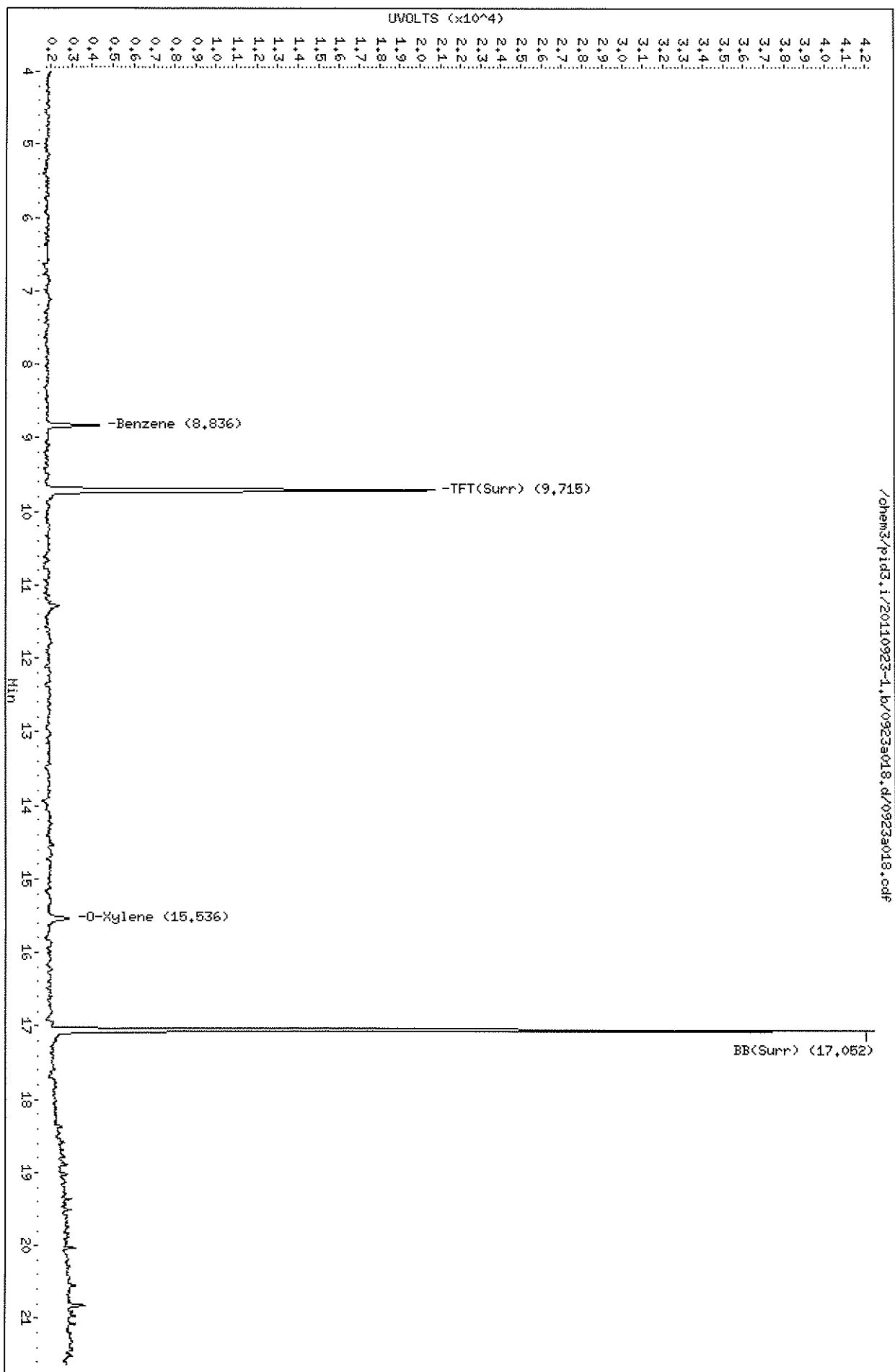
Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

Data File: /chem3/pid3.i/20110923-1.b/0923a018.d
Date : 23-SEP-2011 13:35
Client ID: KJ-B27-12
Sample Info: TH631

Column phase: RTX 502-2 PID

Instrument: pid3.i
Operator: HH
Column diameter: 0.18



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ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: KJ-B28-16

SAMPLE

Lab Sample ID: TM63J

LIMS ID: 11-20252

Matrix: Soil

Data Release Authorized: *WWW*

Reported: 09/28/11

QC Report No: TM63-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Event: NA

Date Sampled: 09/14/11

Date Received: 09/16/11

Date Analyzed: 09/23/11 14:01

Instrument/Analyst: PID3/MH

Purge Volume: 5.0 mL

Sample Amount: 74 mg-dry-wt

Percent Moisture: 16.6%

CAS Number	Analyte	RL	Result	
71-43-2	Benzene	17	1,500	
108-88-3	Toluene	17	< 17 U	
100-41-4	Ethylbenzene	17	< 17 U	
179601-23-1	m, p-Xylene	34	< 34 U	
95-47-6	o-Xylene	17	< 17 U	
				GAS ID
Gasoline Range Hydrocarbons		6.8	< 6.8 U	---

BETX Surrogate Recovery

Trifluorotoluene	92.1%
Bromobenzene	93.0%

Gasoline Surrogate Recovery

Trifluorotoluene	92.0%
Bromobenzene	93.9%

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

Data File: /chem3/pid3.i/20110923-2.b/0923s019.s
Date: 23-SEP-2011 14:01
Client ID: KJ-B28-16
Sample Info: TM633

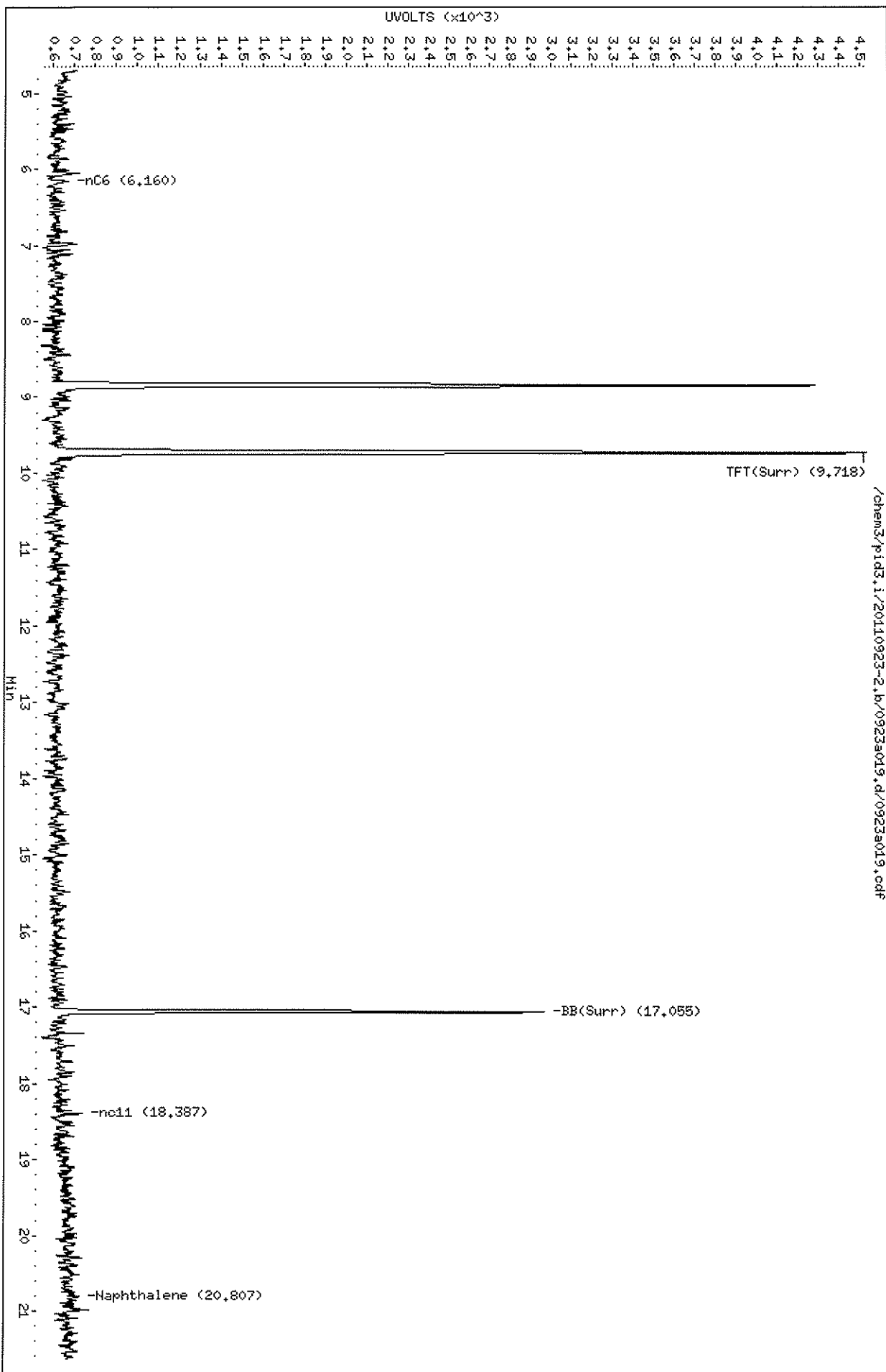
Column phase: RTX 502-2 FID

/chem3/pid3.i/20110923-2.b/0923s019.d/0923s019.cdf

Instrument: pid3.i

Operator: MH

Column diameter: 0.18

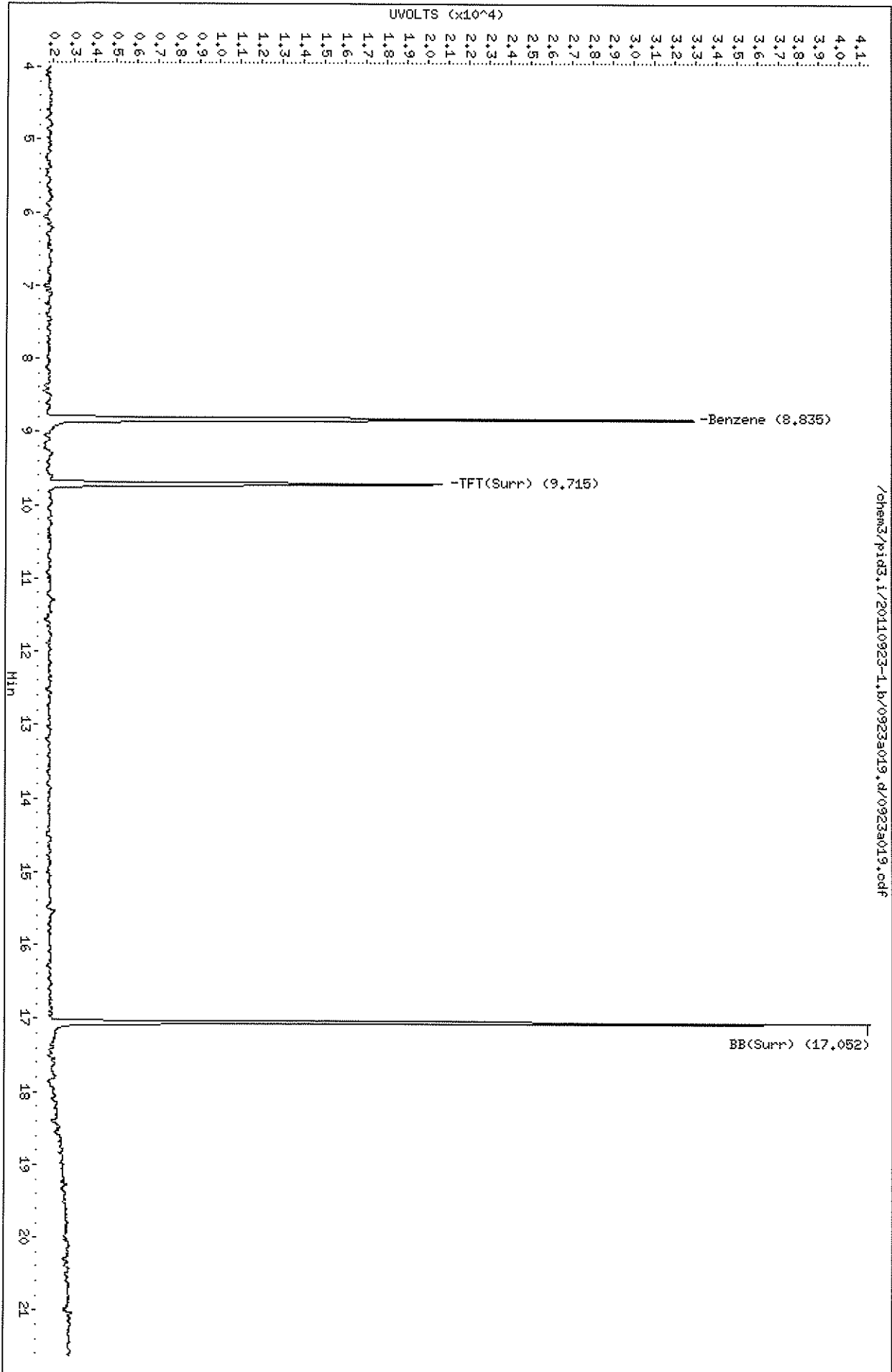


Data File: /chem3/pid3.i/20110923-1.b/0923a019.d
Date : 23-SEP-2011 14:01
Client ID: KJ-B28-16
Sample Info: TMS3J

Column phase: RTX 502-2 PID

/chem3/pid3.i/20110923-1.b/0923a019.d/0923a019.cdf

Instrument: pid3.i
Operator: MH
Column diameter: 0.18



ORGANICS ANALYSIS DATA SHEET
 BETX by Method SW8021BMod
 TPHG by Method NWTPHG
 Page 1 of 1



Sample ID: KJ-B29-7
 SAMPLE

Lab Sample ID: TM63K
 LIMS ID: 11-20253
 Matrix: Soil
 Data Release Authorized: *mmw*
 Reported: 09/28/11

QC Report No: TM63-Kennedy Jenks Consultants
 Project: Ecology Cornet Bay
 Event: NA
 Date Sampled: 09/14/11
 Date Received: 09/16/11

Date Analyzed: 09/23/11 14:27
 Instrument/Analyst: PID3/MH

Purge Volume: 5.0 mL
 Sample Amount: 96 mg-dry-wt
 Percent Moisture: 17.4%

CAS Number	Analyte	RL	Result	
71-43-2	Benzene	13	1,400	
108-88-3	Toluene	13	14	
100-41-4	Ethylbenzene	13	46	
179601-23-1	m,p-Xylene	26	47	
95-47-6	o-Xylene	13	18	
	Gasoline Range Hydrocarbons	5.2	7.5	GAS ID GAS

BETX Surrogate Recovery

Trifluorotoluene	92.2%
Bromobenzene	93.7%

Gasoline Surrogate Recovery

Trifluorotoluene	95.7%
Bromobenzene	96.4%

BETX values reported in µg/kg (ppb)
 Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.

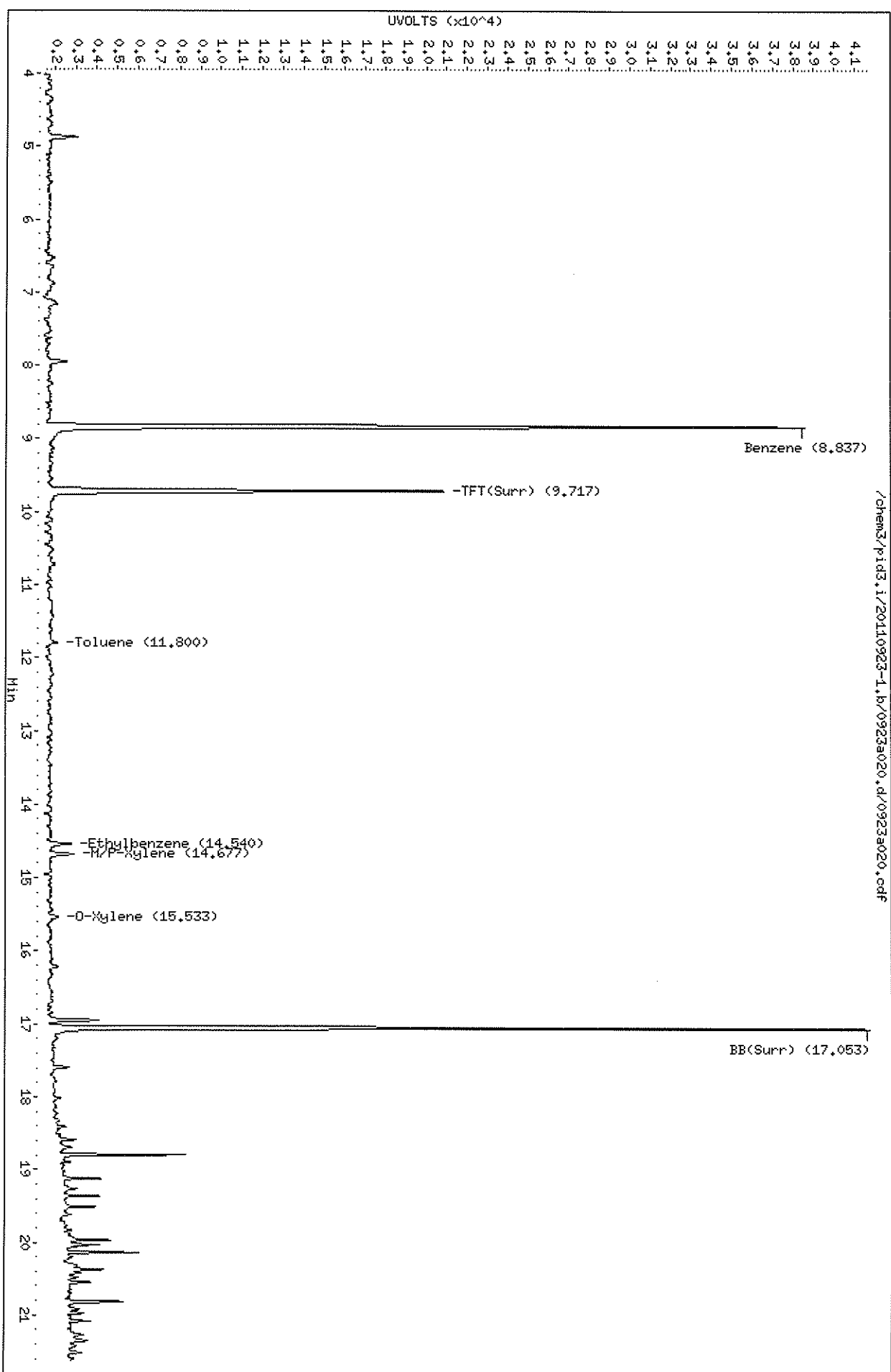
Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

Data File: /chem3/pid3.i/20110923-1.b/0923a020.d
Date: 23-SEP-2011 14:27
Client ID: KJ-B29-7
Sample Info: TH63K

Column phase: RTX 502-2 PID

Instrument: pid3.i
Operator: HH
Column diameter: 0.18



TH63K

ORGANICS ANALYSIS DATA SHEET
 BETX by Method SW8021BMod
 TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: KJ-B29-18
 SAMPLE

Lab Sample ID: TM63L
 LIMS ID: 11-20254
 Matrix: Soil
 Data Release Authorized: *VW*
 Reported: 09/28/11

QC Report No: TM63-Kennedy Jenks Consultants
 Project: Ecology Cornet Bay
 Event: NA
 Date Sampled: 09/14/11
 Date Received: 09/16/11

Date Analyzed: 09/23/11 14:53
 Instrument/Analyst: PID3/MH

Purge Volume: 5.0 mL
 Sample Amount: 73 mg-dry-wt
 Percent Moisture: 16.4%

CAS Number	Analyte	RL	Result	
71-43-2	Benzene	17	670	
108-88-3	Toluene	17	< 17 U	
100-41-4	Ethylbenzene	17	30	
179601-23-1	m, p-Xylene	34	< 34 U	
95-47-6	o-Xylene	17	< 17 U	
Gasoline Range Hydrocarbons				6.9
			< 6.9 U	GAS ID ---

BETX Surrogate Recovery

Trifluorotoluene	91.8%
Bromobenzene	92.3%

Gasoline Surrogate Recovery

Trifluorotoluene	92.4%
Bromobenzene	91.3%

BETX values reported in µg/kg (ppb)
 Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

Data File: /chem3/pid3.i/20110923-2.b/0923a021.d

Page 1

Date: 23-SEP-2011 14:53

Client ID: KJ-B29-18

Sample Infol: TM63L

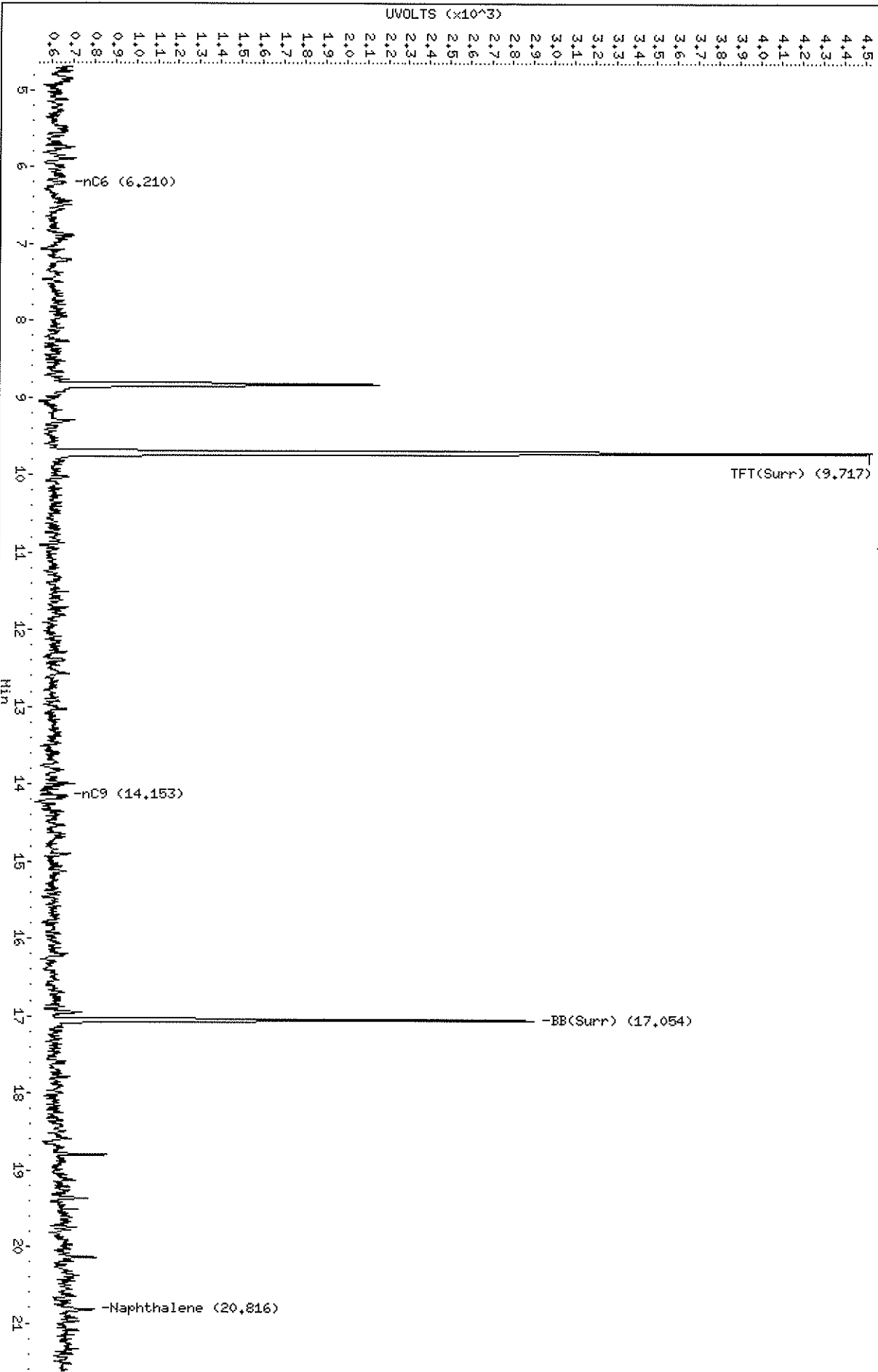
Instrument: pid3.i

Operator: HH

Column diameter: 0.18

Column phase: RTX 502-2 FID

/chem3/pid3.i/20110923-2.b/0923a021.d/0923a021.cdf

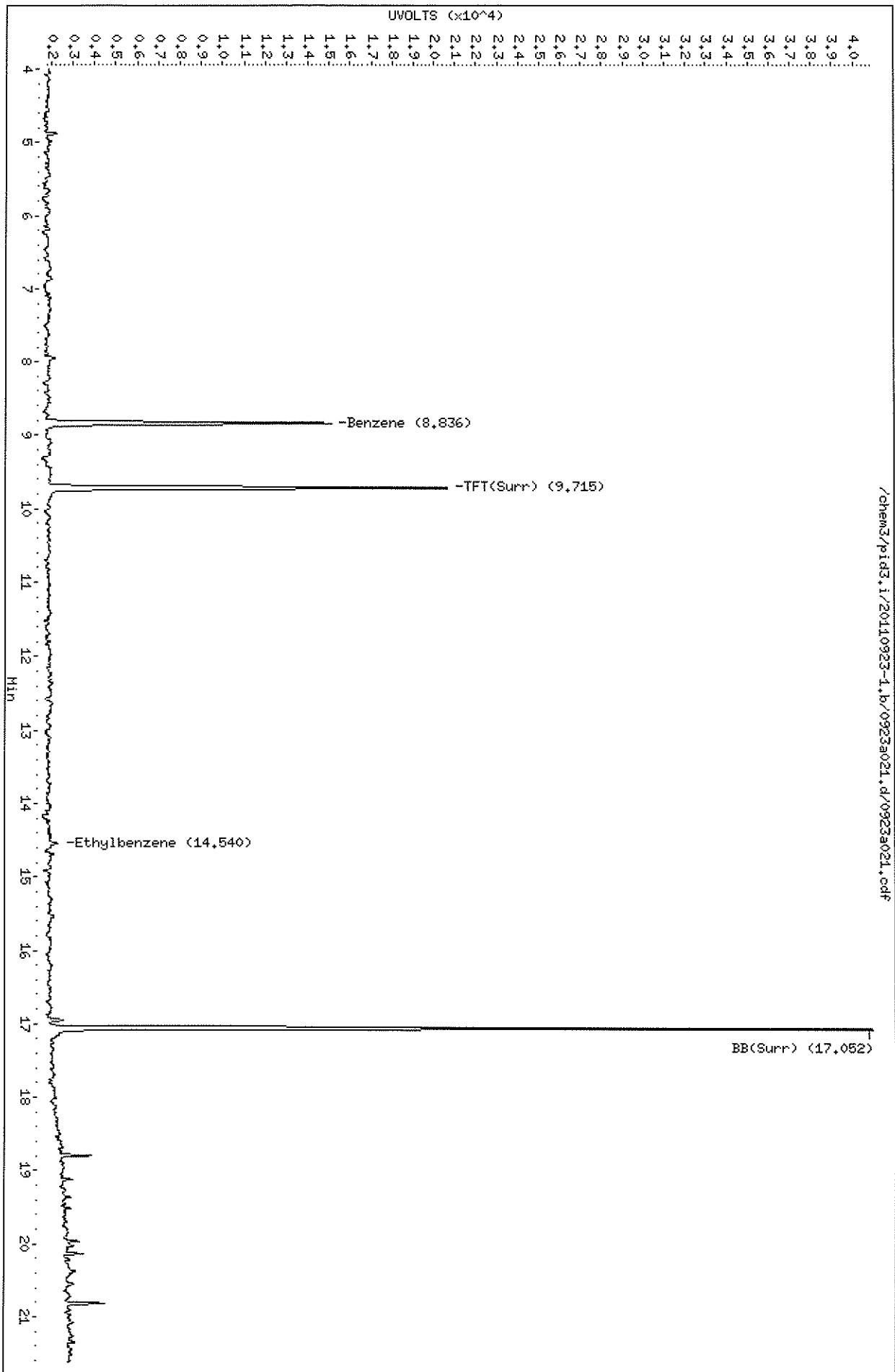


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Data File: /chem3/pid3.i/20110923-1.b/0923a021.d
Date: 23-SEP-2011 14:53
Client ID: K3-B29-18
Sample Info: TH63L

Column phaset: RTX 502-2 PID

Instrument: pid3.i
Operator: HH
Column diameter: 0.18



/chem3/pid3.i/20110923-1.b/0923a021.d/0923a021.cdf

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ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: KJ-B30-8

SAMPLE

Lab Sample ID: TM63M

LIMS ID: 11-20255

Matrix: Soil

Data Release Authorized: *WV*

Reported: 09/28/11

QC Report No: TM63-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Event: NA

Date Sampled: 09/14/11

Date Received: 09/16/11

Date Analyzed: 09/23/11 15:19

Instrument/Analyst: PID3/MH

Purge Volume: 5.0 mL

Sample Amount: 7.5 mg-dry-wt

Percent Moisture: 15.8%

CAS Number	Analyte	RL	Result
71-43-2	Benzene	170	1,200
108-88-3	Toluene	170	230
100-41-4	Ethylbenzene	170	4,400
179601-23-1	m,p-Xylene	330	1,400
95-47-6	o-Xylene	170	190

Gasoline Range Hydrocarbons	66	500	GAS ID GAS
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BETX Surrogate Recovery

Trifluorotoluene	92.1%
Bromobenzene	93.7%

Gasoline Surrogate Recovery

Trifluorotoluene	91.6%
Bromobenzene	98.9%

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

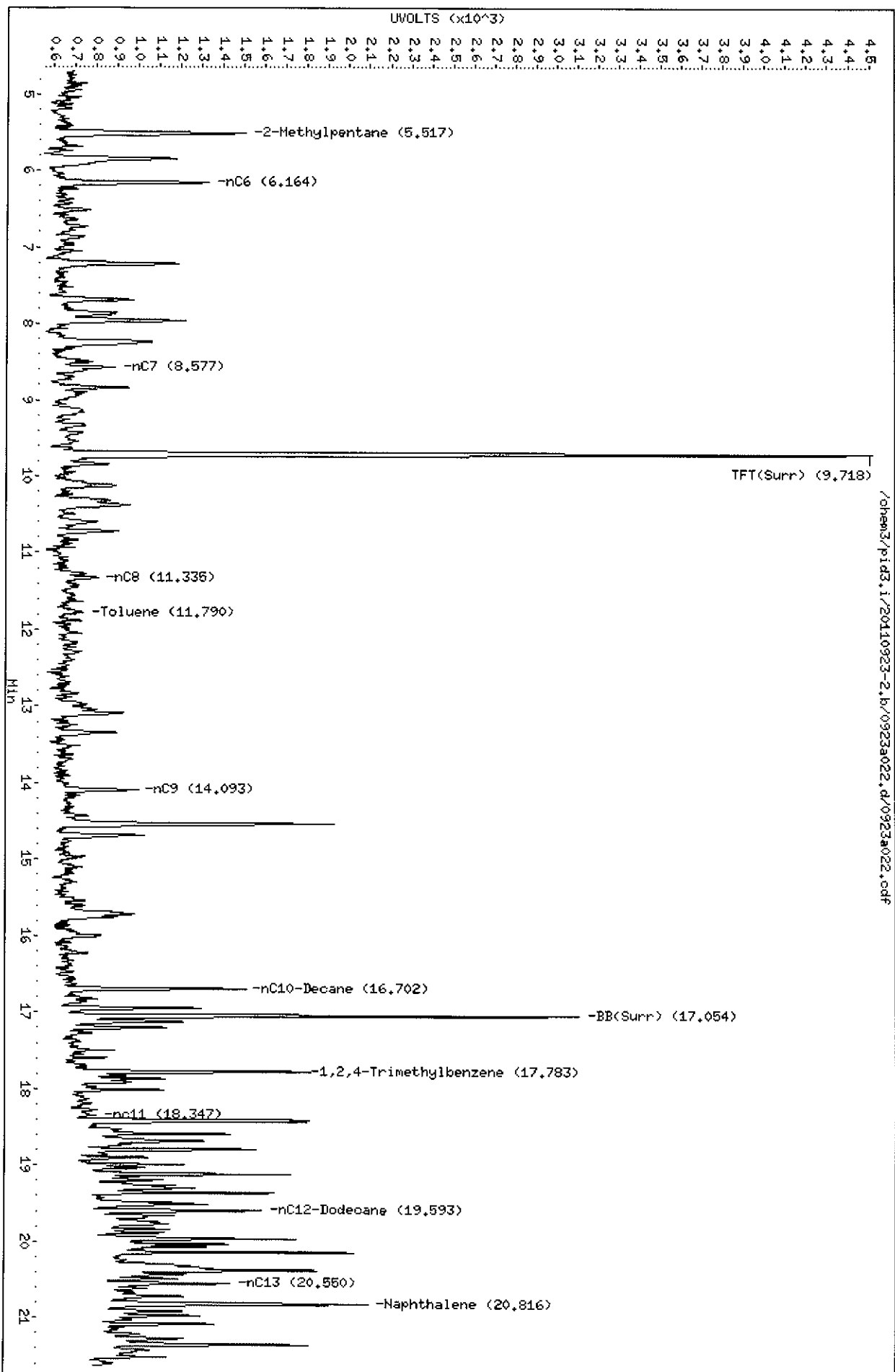
Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

Data File: /chem3/pid3.i/20110923-2.b/0923a022.d
Date : 23-SEP-2011 15:19
Client ID: KJ-B30-8
Sample Info: TM63M

Column phase: RTX 502-2 FID

Instrument: pid3.i
Operator: HH
Column diameter: 0.18



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Data File: /chem3/pid3.i/20110923-1.b/0923a022.d

Date : 23-SEP-2011 15:19

Client ID: KJ-B30-8

Sample Info: TM63H

Page 1

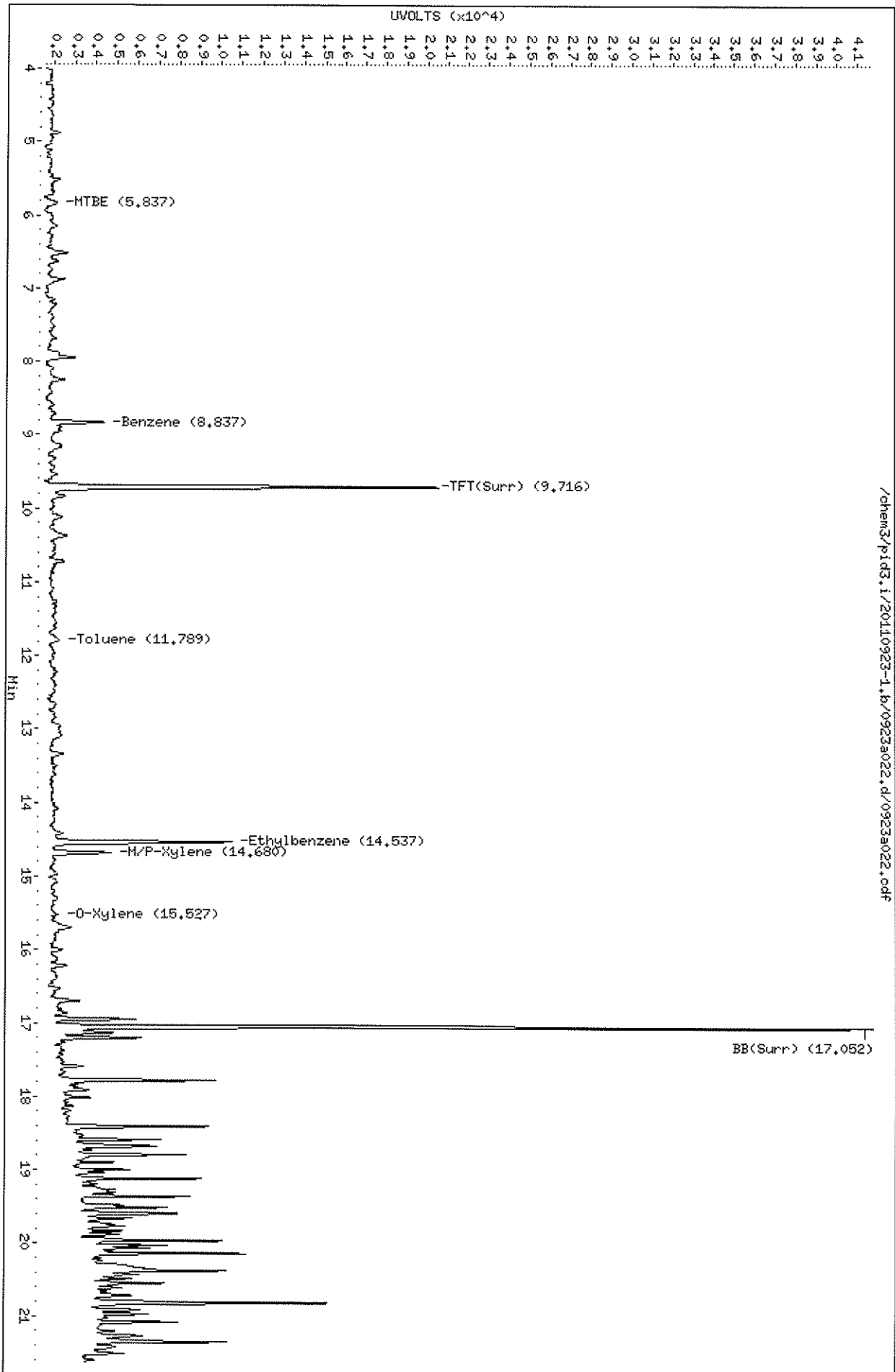
Column phase: RTX 502-2 PID

Operator: MH

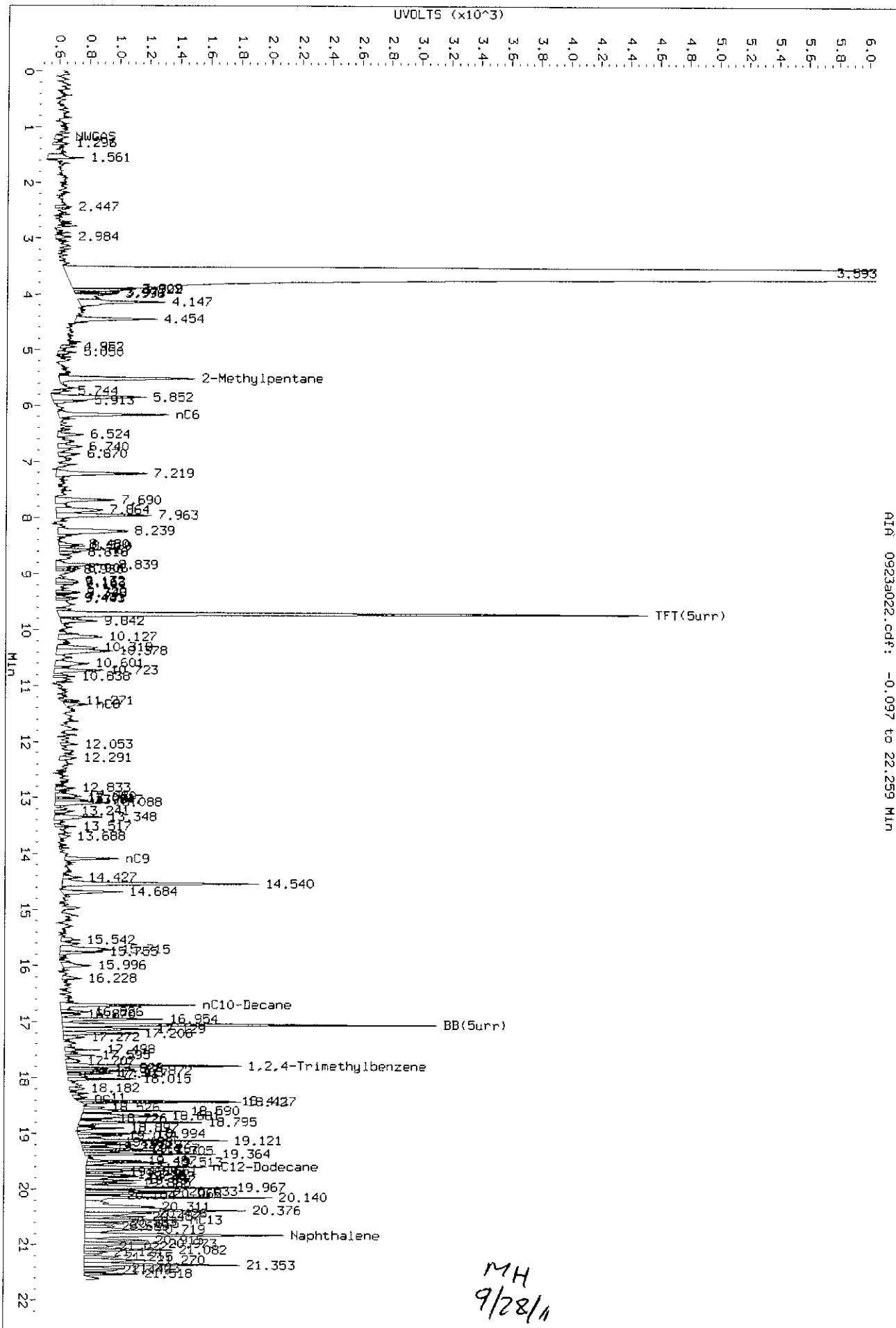
Instrument: pid3.i

Column diameter: 0.18

/chem3/pid3.i/20110923-1.b/0923a022.d/0923a022.cdf



Data File: /chem3/pid3.1/20110923-2.b/0923a022.d/0923a022.cdf
 Injection Date: 23-SEP-2011 15:19
 Instrument: pid3.1
 Client Sample ID: KJ-B30-8

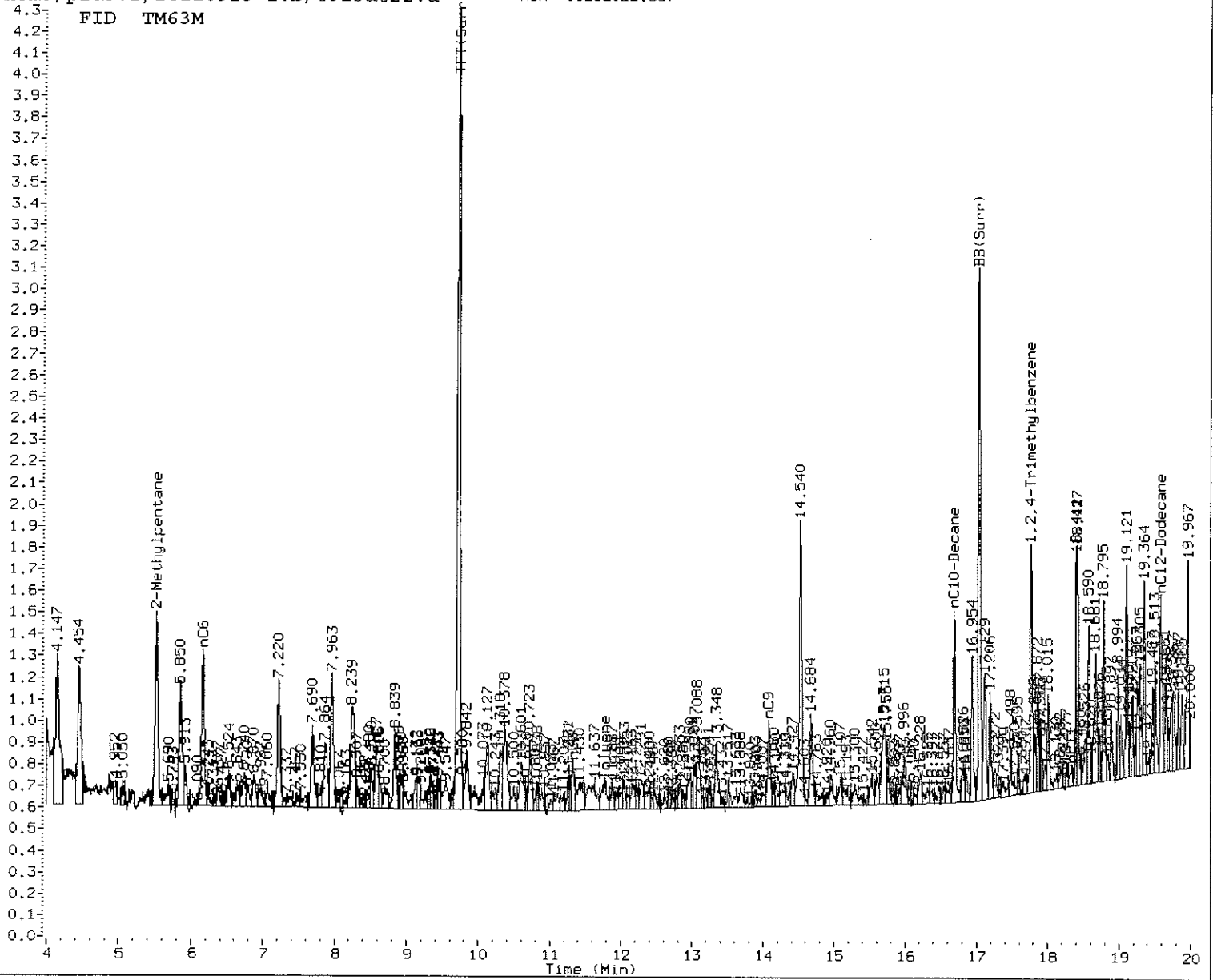


MIN 0923a022.cdf: -0.097 to 22.259 MIN

MH
9/28/11

FID TM63M

UVOLTS



MANUAL INTEGRATION

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: MH

Date: 9/23/11



Lab Sample ID: TM63N
 LIMS ID: 11-20256
 Matrix: Soil
 Data Release Authorized: *[Signature]*
 Reported: 09/28/11

QC Report No: TM63-Kennedy Jenks Consultants
 Project: Ecology Cornet Bay
 Event: NA
 Date Sampled: 09/14/11
 Date Received: 09/16/11

Date Analyzed: 09/23/11 15:46
 Instrument/Analyst: PID3/MH

Purge Volume: 5.0 mL
 Sample Amount: 85 mg-dry-wt
 Percent Moisture: 14.9%

CAS Number	Analyte	RL	Result	
71-43-2	Benzene	15	< 15 U	
108-88-3	Toluene	15	< 15 U	
100-41-4	Ethylbenzene	15	< 15 U	
179601-23-1	m, p-Xylene	29	< 29 U	
95-47-6	o-Xylene	15	< 15 U	
	Gasoline Range Hydrocarbons	5.9	< 5.9 U	GAS ID ---

BETX Surrogate Recovery

Trifluorotoluene	93.2%
Bromobenzene	93.8%

Gasoline Surrogate Recovery

Trifluorotoluene	93.7%
Bromobenzene	95.6%

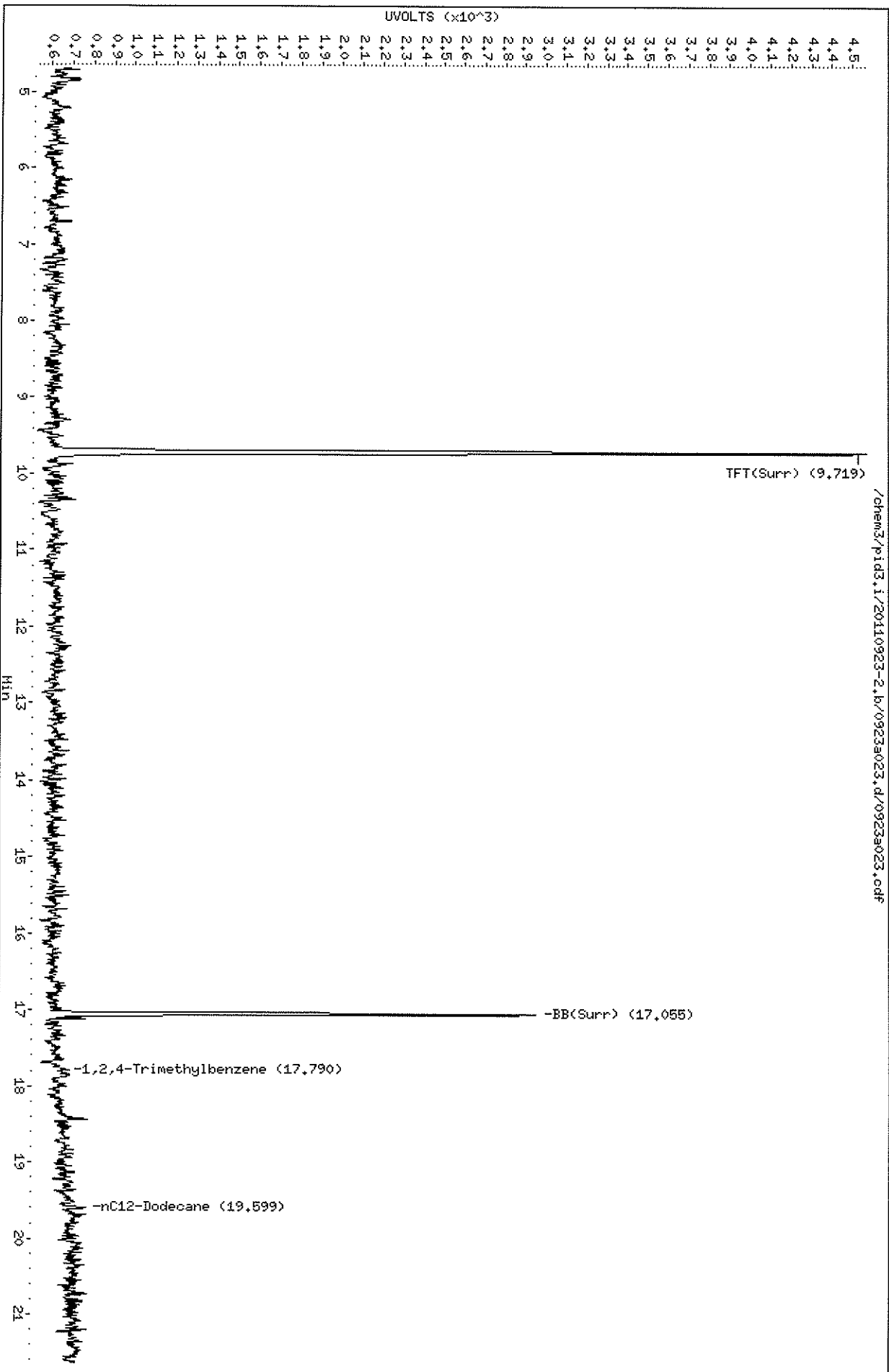
BETX values reported in µg/kg (ppb)
 Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.
 Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.
 Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

Data File: /chem3/pid3.i/20110923-2.b/0923a023.d
Date : 23-SEP-2011 15:46
Client ID: K3-B30-17
Sample Info: TM63N

Column phase: RTX 502-2 FID

Instrument: pid3.i
Operator: HH
Column diameter: 0.18



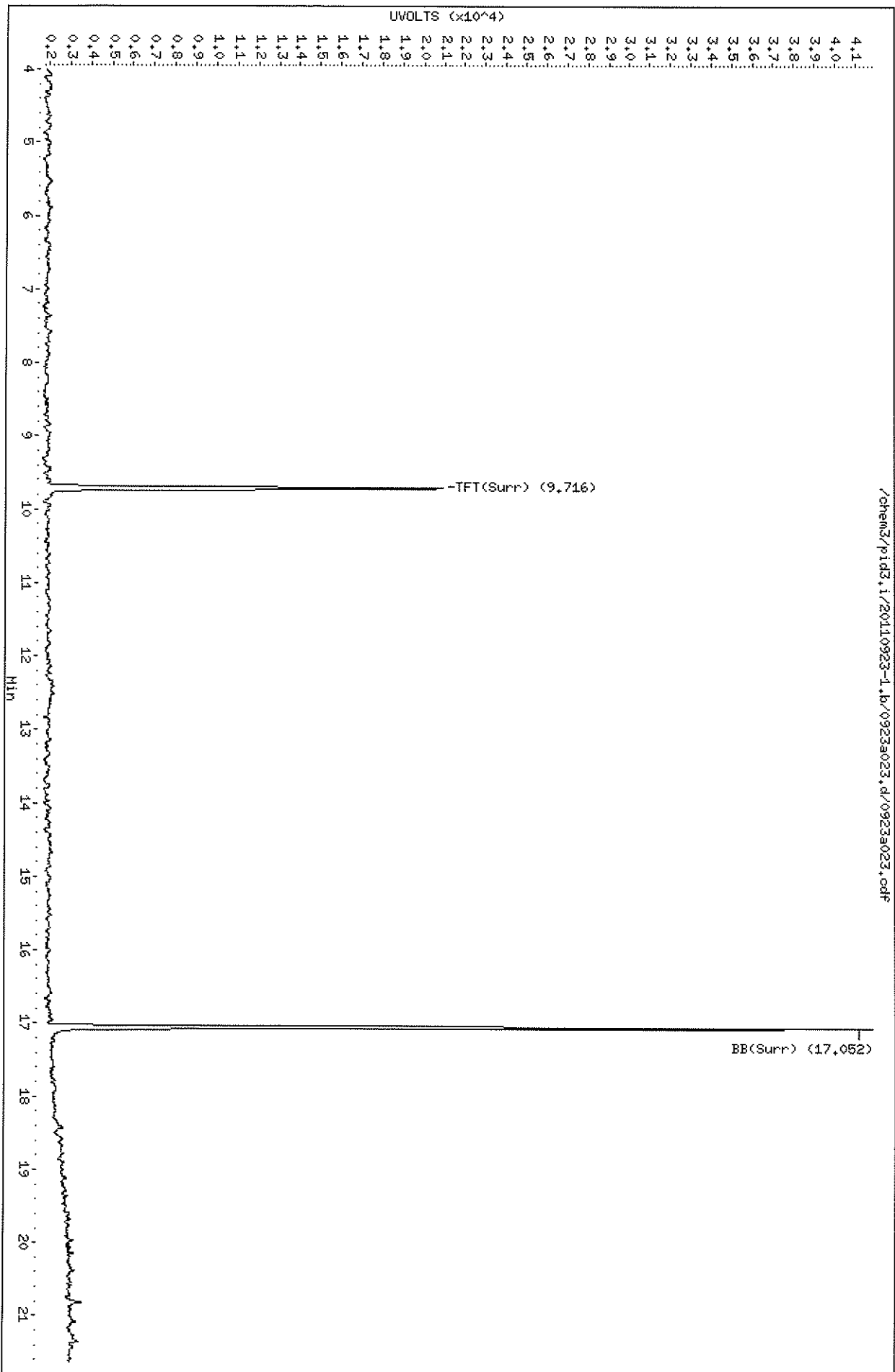
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Data File: /chem3/pid3.i/20110923-1.b/0923a023.d
Date : 23-SEP-2011 15:46
Client ID: KJ-B30-17
Sample Info: TH63N

Column phase: RTX 502-2 PID

Instrument: pid3.i
Operator: HH
Column diameter: 0.18

/chem3/pid3.i/20110923-1.b/0923a023.d/0923a023.cdf



Sample ID: KJ-B31-4
 SAMPLE

Lab Sample ID: TM630
 LIMS ID: 11-20257
 Matrix: Soil
 Data Release Authorized: *W*
 Reported: 09/28/11

QC Report No: TM63-Kennedy Jenks Consultants
 Project: Ecology Cornet Bay
 Event: NA
 Date Sampled: 09/14/11
 Date Received: 09/16/11

Date Analyzed: 09/23/11 17:31
 Instrument/Analyst: PID3/MH

Purge Volume: 5.0 mL
 Sample Amount: 86 mg-dry-wt
 Percent Moisture: 7.8%

CAS Number	Analyte	RL	Result	
71-43-2	Benzene	14	< 14 U	
108-88-3	Toluene	14	< 14 U	
100-41-4	Ethylbenzene	14	< 14 U	
179601-23-1	m,p-Xylene	29	< 29 U	
95-47-6	o-Xylene	14	< 14 U	
	Gasoline Range Hydrocarbons	5.8	< 5.8 U	GAS ID ---

BETX Surrogate Recovery

Trifluorotoluene	85.8%
Bromobenzene	90.2%

Gasoline Surrogate Recovery

Trifluorotoluene	89.9%
Bromobenzene	91.1%

BETX values reported in µg/kg (ppb)
 Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.



Lab Sample ID: TM63P
LIMS ID: 11-20258
Matrix: Soil
Data Release Authorized: *VW*
Reported: 09/28/11

QC Report No: TM63-Kennedy Jenks Consultants
Project: Ecology Cornet Bay
Event: NA
Date Sampled: 09/14/11
Date Received: 09/16/11

Date Analyzed: 09/23/11 17:57
Instrument/Analyst: PID3/MH

Purge Volume: 5.0 mL
Sample Amount: 98 mg-dry-wt
Percent Moisture: 5.0%

CAS Number	Analyte	RL	Result
71-43-2	Benzene	13	18
108-88-3	Toluene	13	93
100-41-4	Ethylbenzene	13	600
179601-23-1	m,p-Xylene	25	120
95-47-6	o-Xylene	13	57

Gasoline Range Hydrocarbons 5.1 250 GAS ID
GAS/GRO

BETX Surrogate Recovery

Trifluorotoluene	89.7%
Bromobenzene	101%

Gasoline Surrogate Recovery

Trifluorotoluene	90.5%
Bromobenzene	105%

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

Data File: /chem3/pid3.i/20110923-1.b/0923a028.d

Date: 23-SEP-2011 17:57

Client ID: KJ-B32-4

Sample Info: TH63P

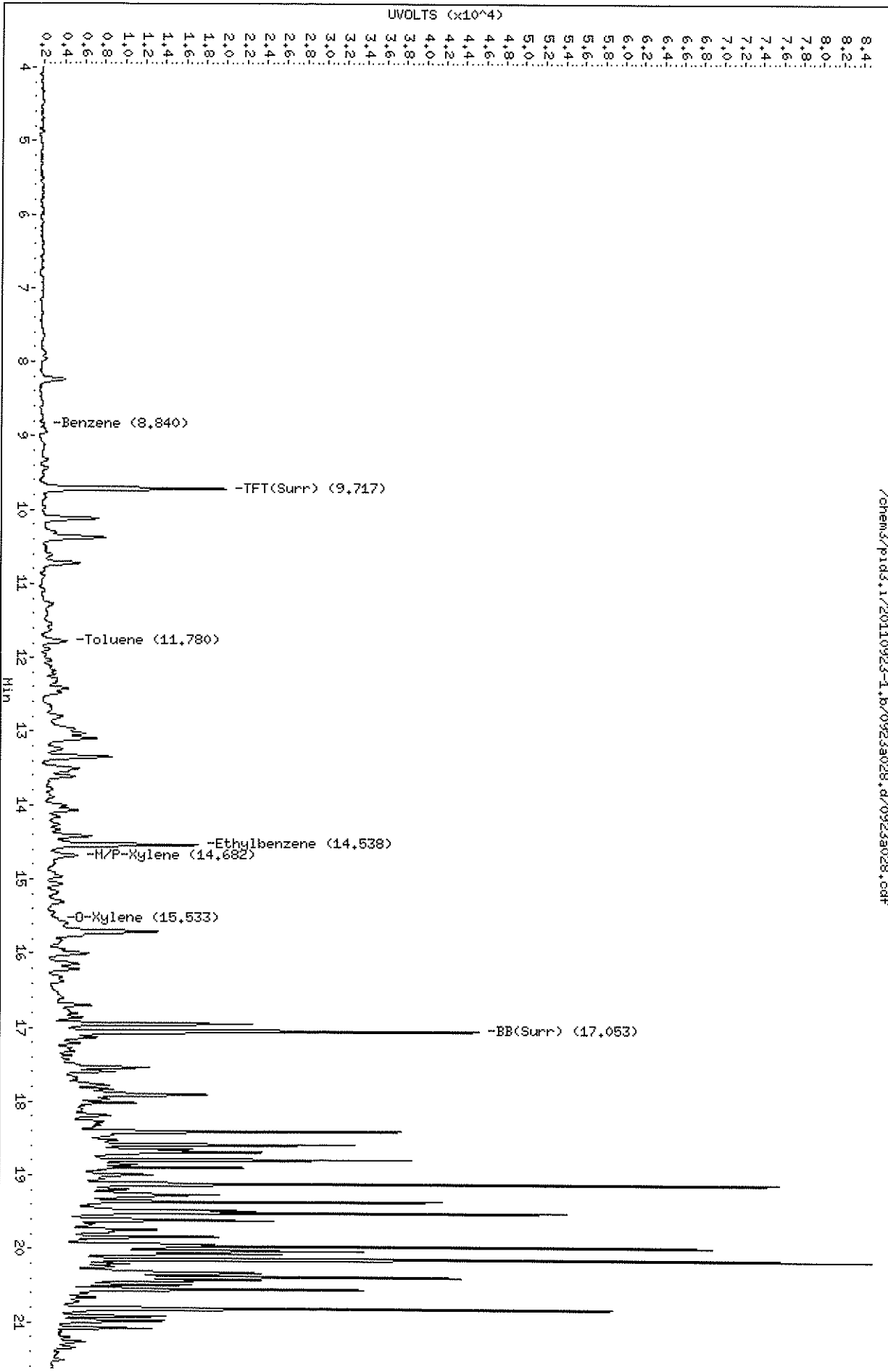
Instrument: pid3.i

Operator: NH

Column diameter: 0.18

Column phase: RTX 502-2 PID

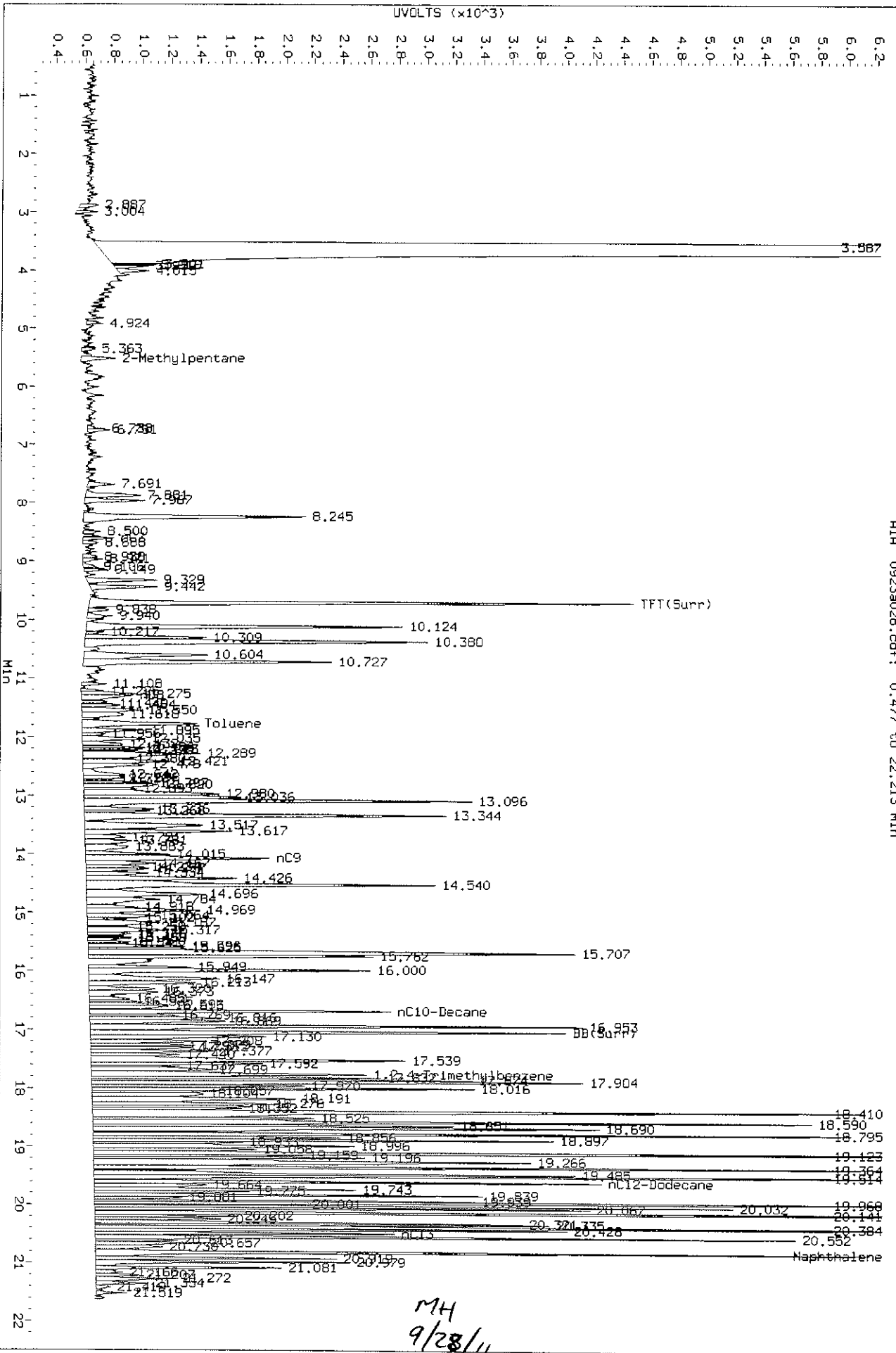
/chem3/pid3.i/20110923-1.b/0923a028.d/0923a028.pdf



0923a028.pdf

Data File: /chem3/pid3.1/20110923-2.b/0923a028.d/0923a028.cdf
Injection Date: 23-SEP-2011 17:57
Instrument: pid3.1
Client Sample ID: KJ-B32-4

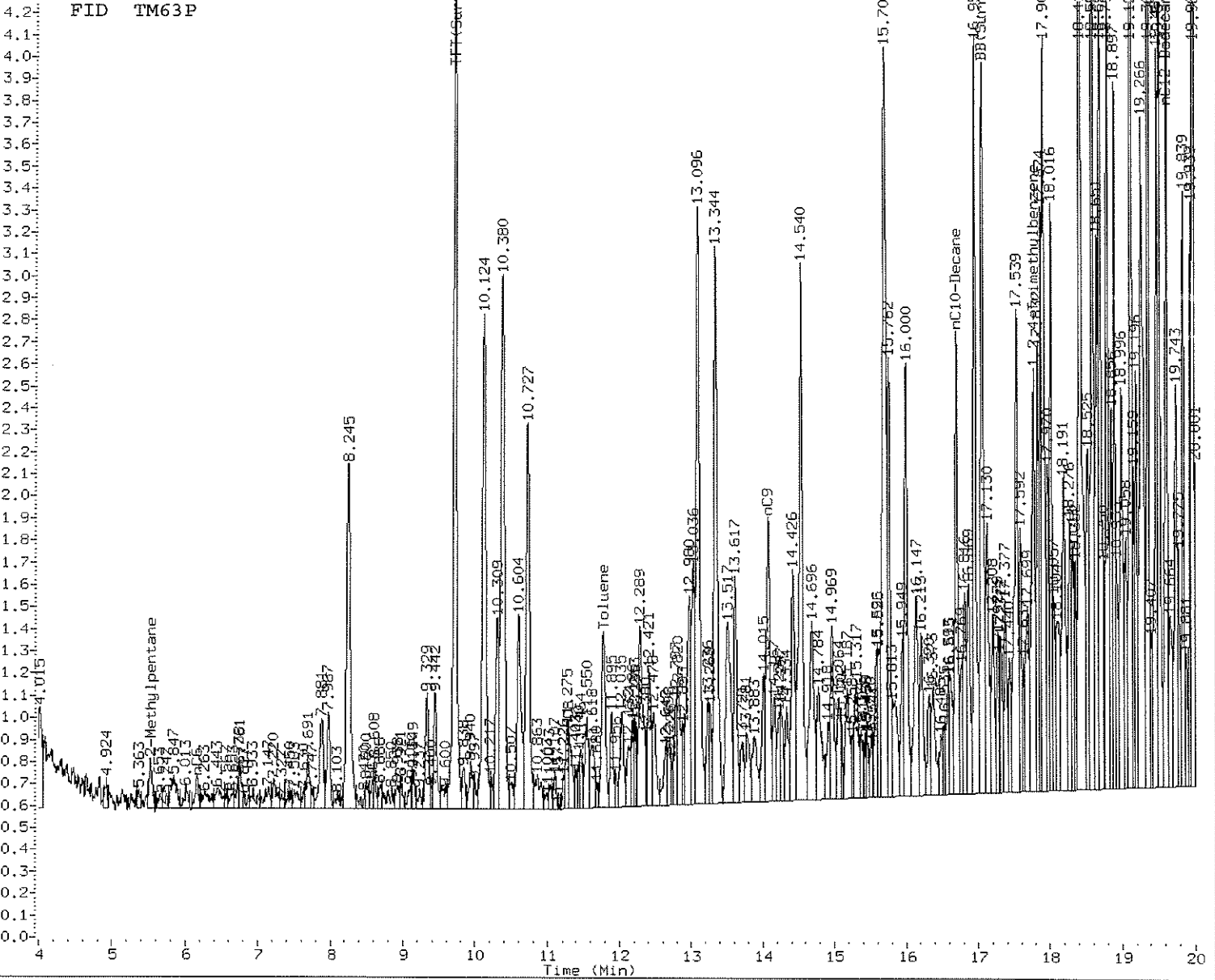
AIA 0923a028.cdf: 0.477 to 22.213 MIN



MH
9/28/11

FID TM63P

UNVOLTS



MANUAL INTEGRATION

- Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: MA Date: 9/28/11

ORGANICS ANALYSIS DATA SHEET
 BETX by Method SW8021BMod
 TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: Trip Blank
 SAMPLE

Lab Sample ID: TM63Q
 LIMS ID: 11-20259
 Matrix: Water
 Data Release Authorized: *mmw*
 Reported: 09/28/11

QC Report No: TM63-Kennedy Jenks Consultants
 Project: Ecology Cornet Bay
 Event: NA
 Date Sampled: 09/13/11
 Date Received: 09/16/11

Date Analyzed: 09/23/11 08:20
 Instrument/Analyst: PID3/MH

Purge Volume: 5.0 mL
 Dilution Factor: 1.00

CAS Number	Analyte	RL	Result	GAS ID
71-43-2	Benzene	0.25	< 0.25 U	
108-88-3	Toluene	0.25	< 0.25 U	
100-41-4	Ethylbenzene	0.25	< 0.25 U	
179601-23-1	m,p-Xylene	0.50	< 0.50 U	
95-47-6	o-Xylene	0.25	< 0.25 U	
	Gasoline Range Hydrocarbons	0.10	< 0.10 U	---
BETX Surrogate Recovery				
	Trifluorotoluene	97.8%		
	Bromobenzene	93.8%		
Gasoline Surrogate Recovery				
	Trifluorotoluene	100%		
	Bromobenzene	96.0%		

BETX values reported in µg/L (ppb)
 Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.
 Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: KJ-B19-7

SAMPLE

Lab Sample ID: TM63R

LIMS ID: 11-20260

Matrix: Soil

Data Release Authorized: *WWW*

Reported: 09/28/11

QC Report No: TM63-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Event: NA

Date Sampled: 09/13/11

Date Received: 09/16/11

Date Analyzed: 09/23/11 19:15

Instrument/Analyst: PID3/MH

Purge Volume: 5.0 mL

Sample Amount: 8.4 mg-dry-wt

Percent Moisture: 15.7%

CAS Number	Analyte	RL	Result
71-43-2	Benzene	150	2,800
108-88-3	Toluene	150	4,300
100-41-4	Ethylbenzene	150	1,900
179601-23-1	m,p-Xylene	300	5,400
95-47-6	o-Xylene	150	1,600

Gasoline Range Hydrocarbons	59	310	GAS ID GAS
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BETX Surrogate Recovery

Trifluorotoluene	94.1%
Bromobenzene	95.2%

Gasoline Surrogate Recovery

Trifluorotoluene	91.1%
Bromobenzene	97.4%

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

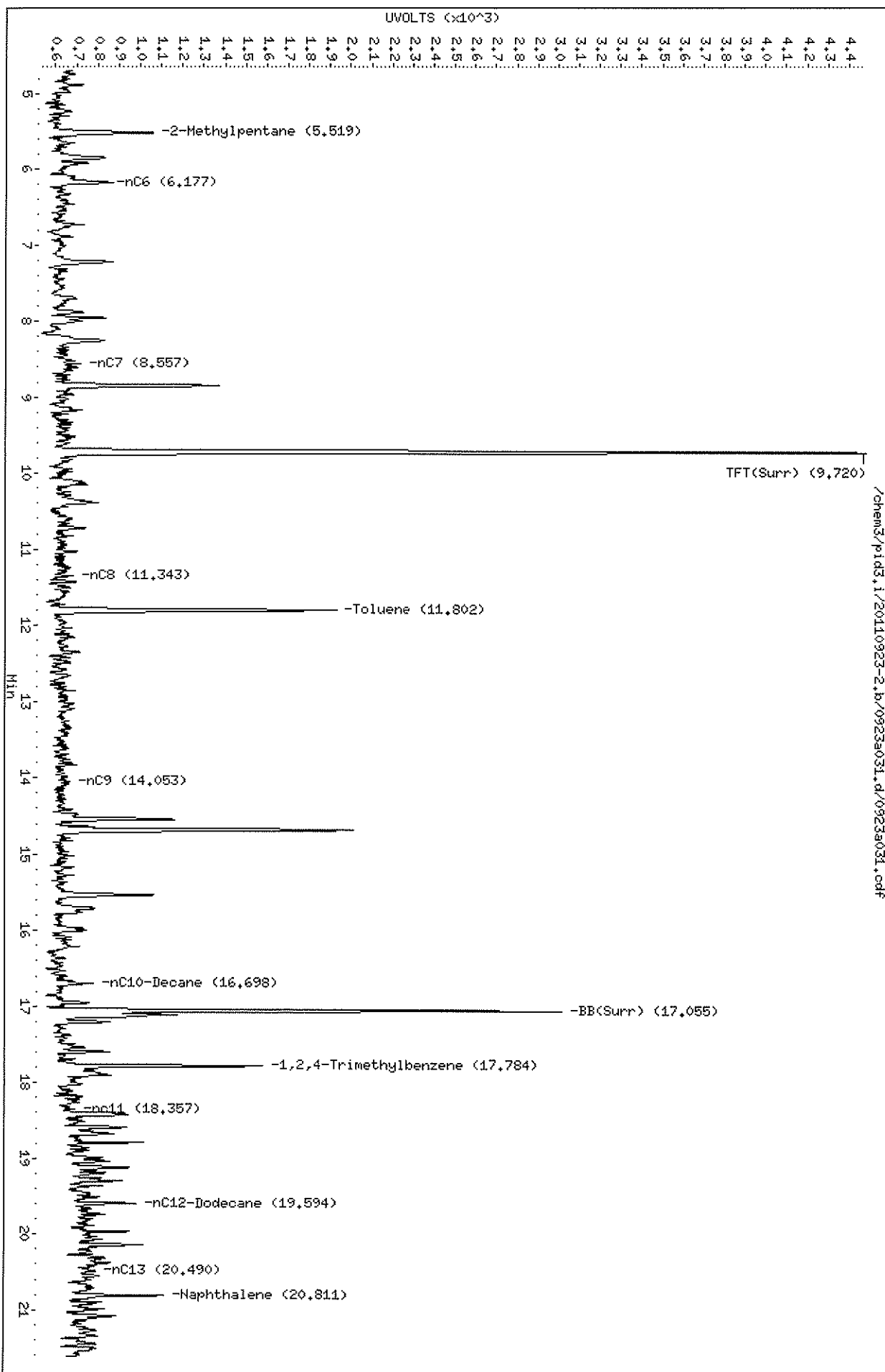
Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

Data File: /chem3/pid3.i/20110923-2.b/09233031.d
Date : 23-SEP-2011 19:15
Client ID: KJ-B19-7
Sample Info: TMS3R

Column phase: RTX 502-2 FID

Instrument: pid3.i
Operator: NH
Column diameter: 0.18



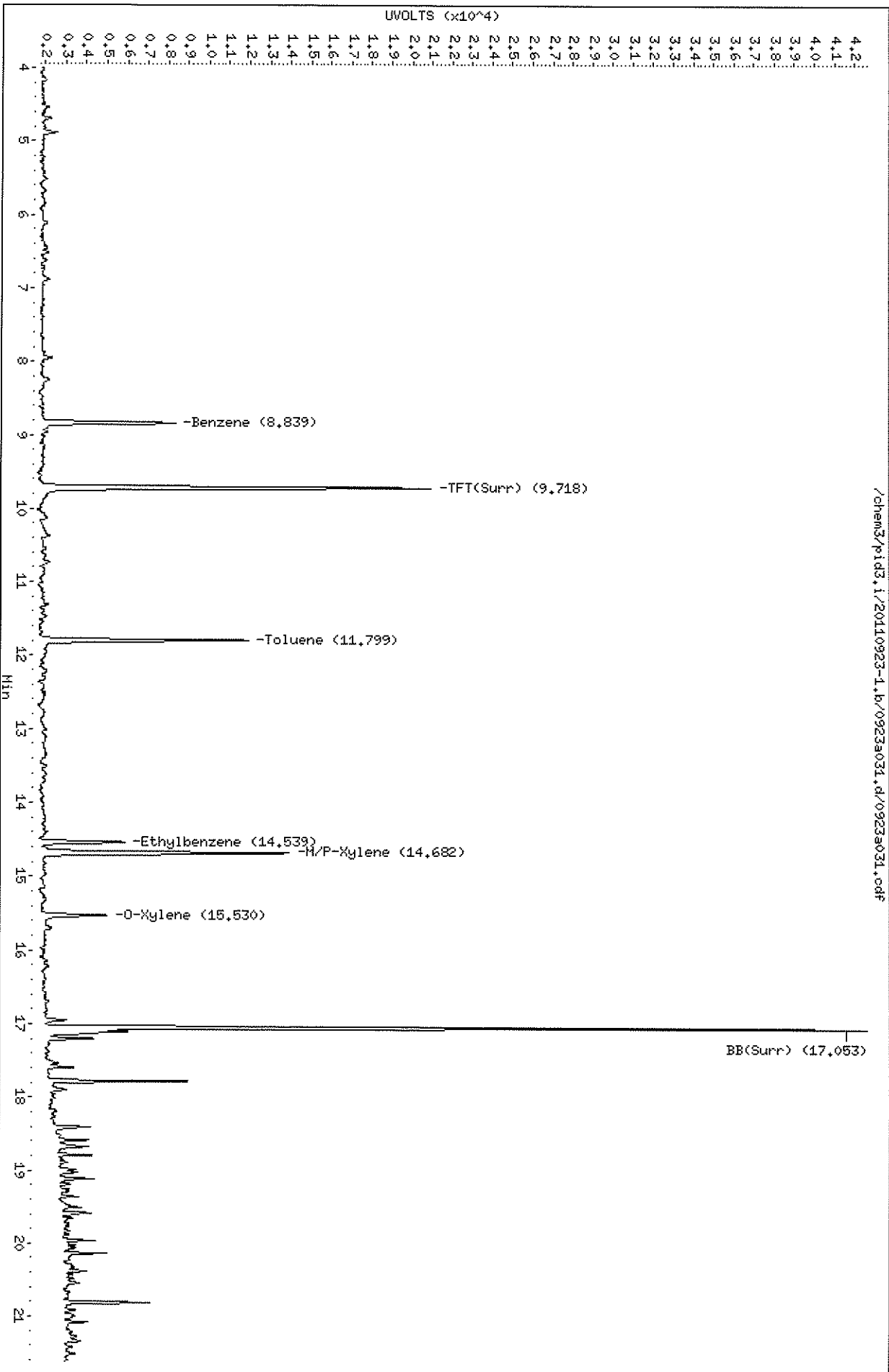
09233031.d

Data File: /chem3/pid3.i/20110923-1.b/0923a031.d
Date : 23-SEP-2011 19:15
Client ID: KJ-B19-7
Sample Info: TM63R

Column phase: RTX 502-2 PID

/chem3/pid3.i/20110923-1.b/0923a031.d/0923a031.cdf

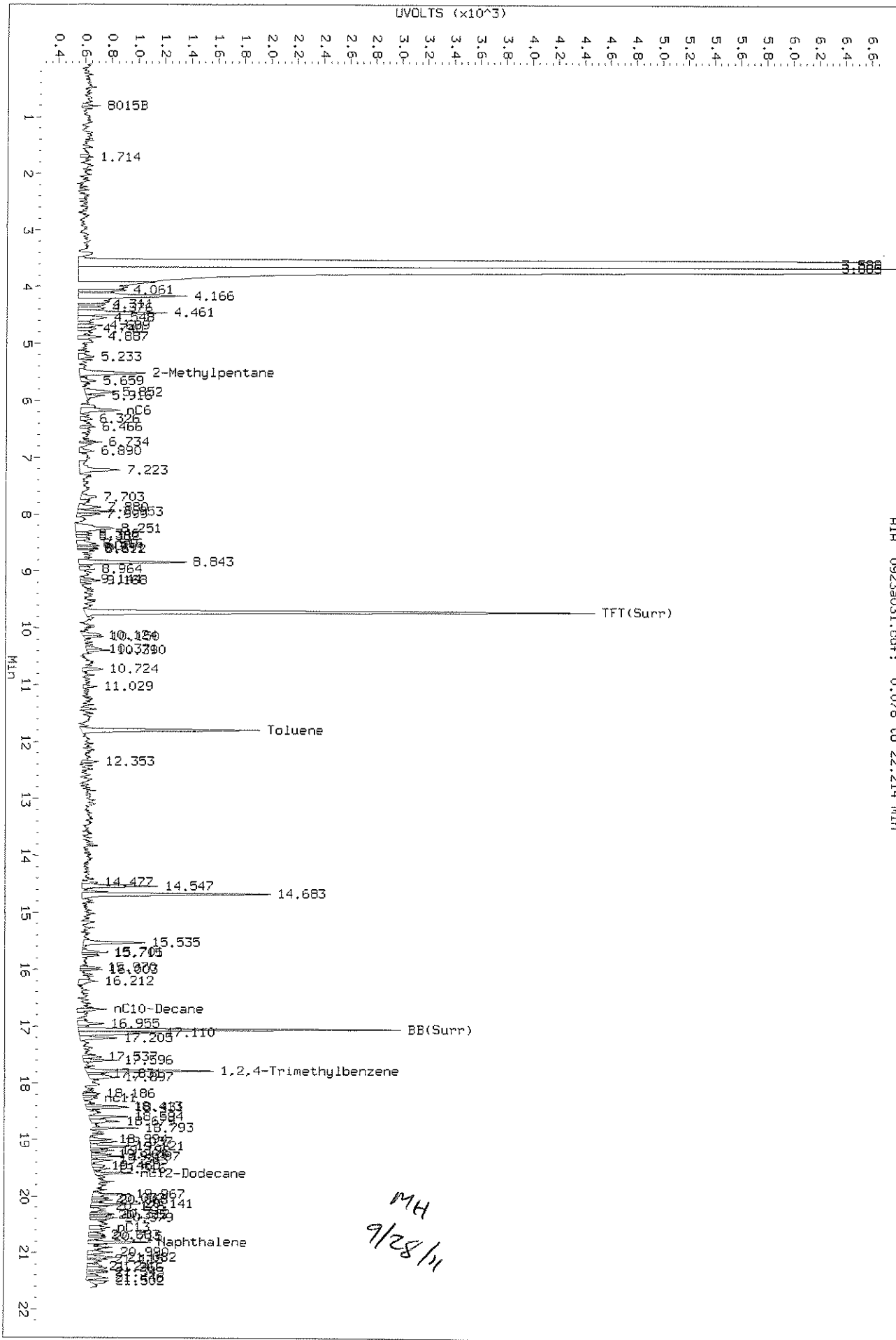
Instrument: pid3.i
Operator: HH
Column diameter: 0.18



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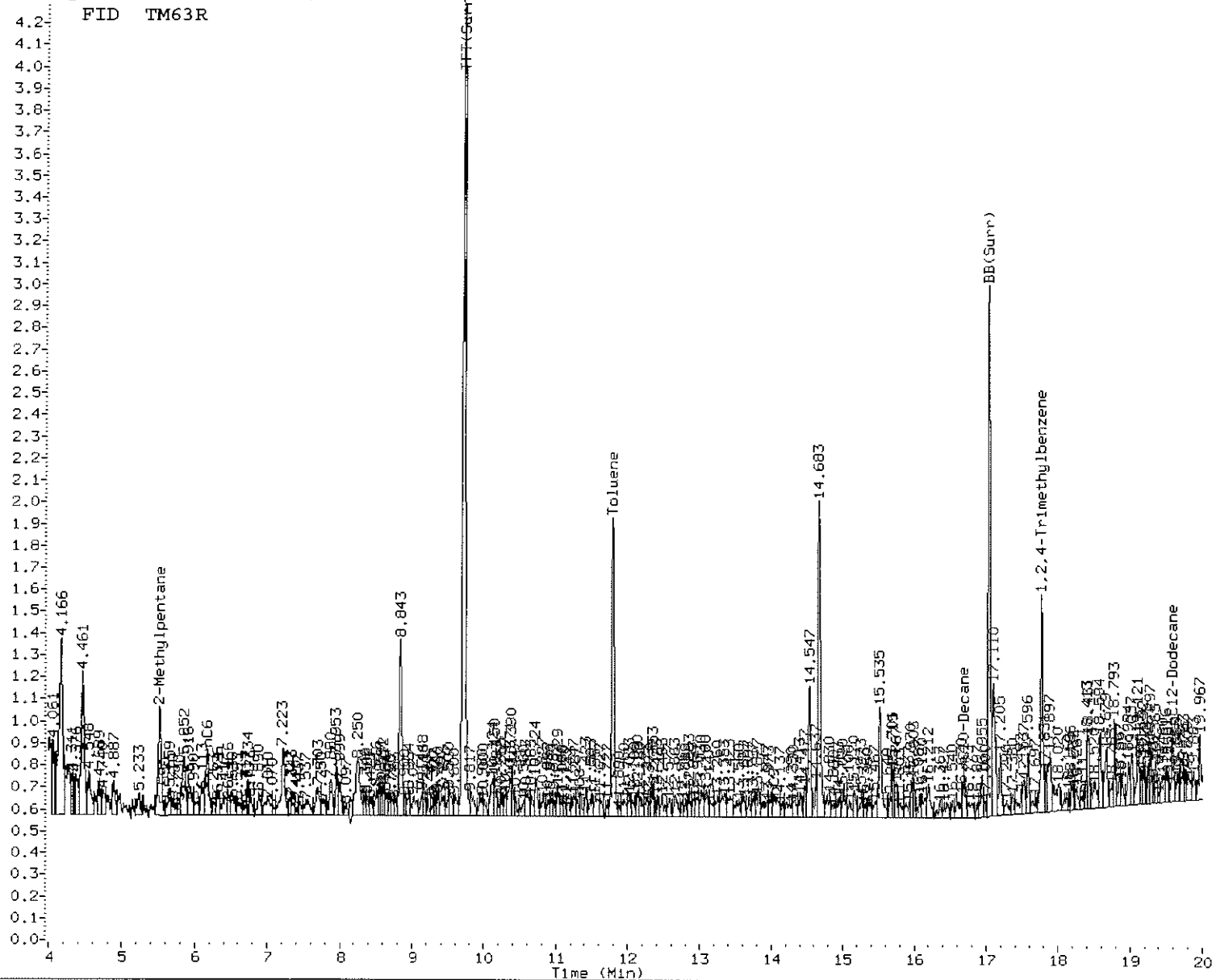
Data File: /chem3/pid3.1/20110923-2.b/0923s031.d/0923s031.cdf
Injection Date: 23-SEP-2011 19:15
Instrument: pid3.1
Client Sample ID: KJ-B19-7

AIA 0923s031.cdf: 0.078 to 22.214 Min



FID TM63R

UNITS



MANUAL INTEGRATION

- Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: MH

Date: 9/28/11

ORGANICS ANALYSIS DATA SHEET
 BETX by Method SW8021BMod
 TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: KJ-B20-10
 SAMPLE

Lab Sample ID: TM63S
 LIMS ID: 11-20261
 Matrix: Soil
 Data Release Authorized: *WVW*
 Reported: 09/28/11

QC Report No: TM63-Kennedy Jenks Consultants
 Project: Ecology Cornet Bay
 Event: NA
 Date Sampled: 09/13/11
 Date Received: 09/16/11

Date Analyzed: 09/23/11 19:42
 Instrument/Analyst: PID3/MH

Purge Volume: 5.0 mL
 Sample Amount: 71 mg-dry-wt
 Percent Moisture: 19.6%

CAS Number	Analyte	RL	Result	
71-43-2	Benzene	18	560	
108-88-3	Toluene	18	27	
100-41-4	Ethylbenzene	18	100	
179601-23-1	m,p-Xylene	35	64	
95-47-6	o-Xylene	18	< 18 U	
	Gasoline Range Hydrocarbons	7.0	< 7.0 U	GAS ID ---
BETX Surrogate Recovery				
	Trifluorotoluene	93.5%		
	Bromobenzene	96.5%		
Gasoline Surrogate Recovery				
	Trifluorotoluene	92.0%		
	Bromobenzene	101%		

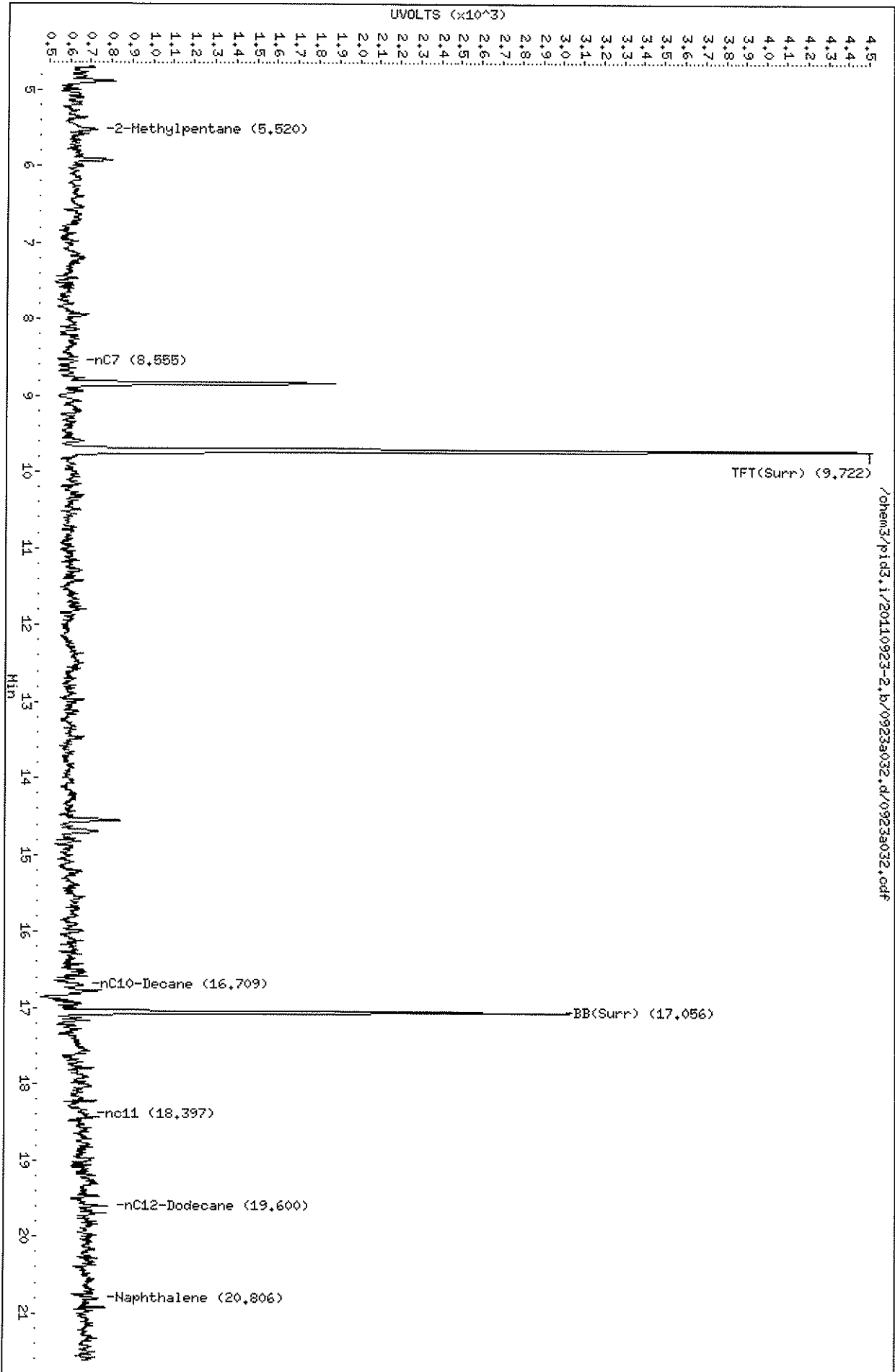
BETX values reported in µg/kg (ppb)
 Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.
 Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.
 Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

Data File: /chem3/pid3.i/20110923-2.b/0923a032.d
Date : 23-SEP-2011 19:42
Client ID: KJ-B20-10
Sample Inlet: TM63S

Column phase: RTX 502-2 FID

Instrument: pid3.i
Operator: HH
Column diameter: 0.18



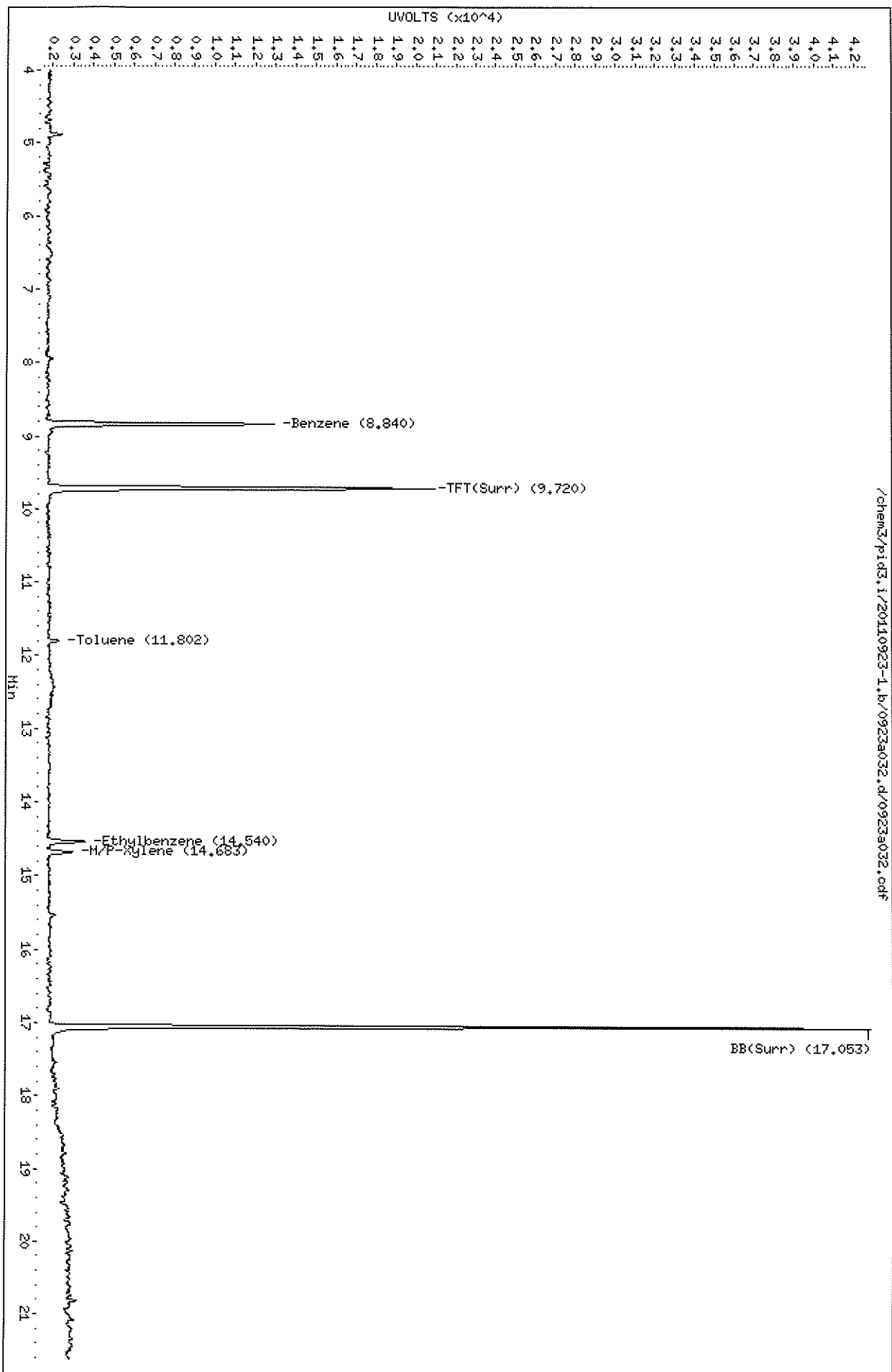
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Data File: /chem3/pid3.i/20110923-1.b/0923a032.d
Date: 23-SEP-2011 19:42
Client ID: KJ-B20-10
Sample Info: TM63S

Column phase: RTX 502-2 PID

/chem3/pid3.i/20110923-1.b/0923a032.d/0923a032.pdf

Instrument: pid3.i
Operator: HH
Column diameter: 0.18



Sample ID: KJ-B22-9
 SAMPLE

Lab Sample ID: TM63T
 LIMS ID: 11-20262
 Matrix: Soil
 Data Release Authorized: *VVV*
 Reported: 09/28/11

QC Report No: TM63-Kennedy Jenks Consultants
 Project: Ecology Cornet Bay
 Event: NA
 Date Sampled: 09/13/11
 Date Received: 09/16/11

Date Analyzed: 09/23/11 20:08
 Instrument/Analyst: PID3/MH

Purge Volume: 5.0 mL
 Sample Amount: 86 mg-dry-wt
 Percent Moisture: 17.8%

CAS Number	Analyte	RL	Result	
71-43-2	Benzene	14	23	
108-88-3	Toluene	14	< 14 U	
100-41-4	Ethylbenzene	14	< 14 U	
179601-23-1	m,p-Xylene	29	< 29 U	
95-47-6	o-Xylene	14	< 14 U	
	Gasoline Range Hydrocarbons	5.8	< 5.8 U	GAS ID ---
BETX Surrogate Recovery				
	Trifluorotoluene	91.7%		
	Bromobenzene	95.7%		
Gasoline Surrogate Recovery				
	Trifluorotoluene	91.6%		
	Bromobenzene	98.6%		

BETX values reported in µg/kg (ppb)
 Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

Data File: /chem3/pid3.i/20110923-2.b/0923a033.d

Date: 23-SEP-2011 20:08

Client ID: KJ-B22-9

Sample Info: TH63T

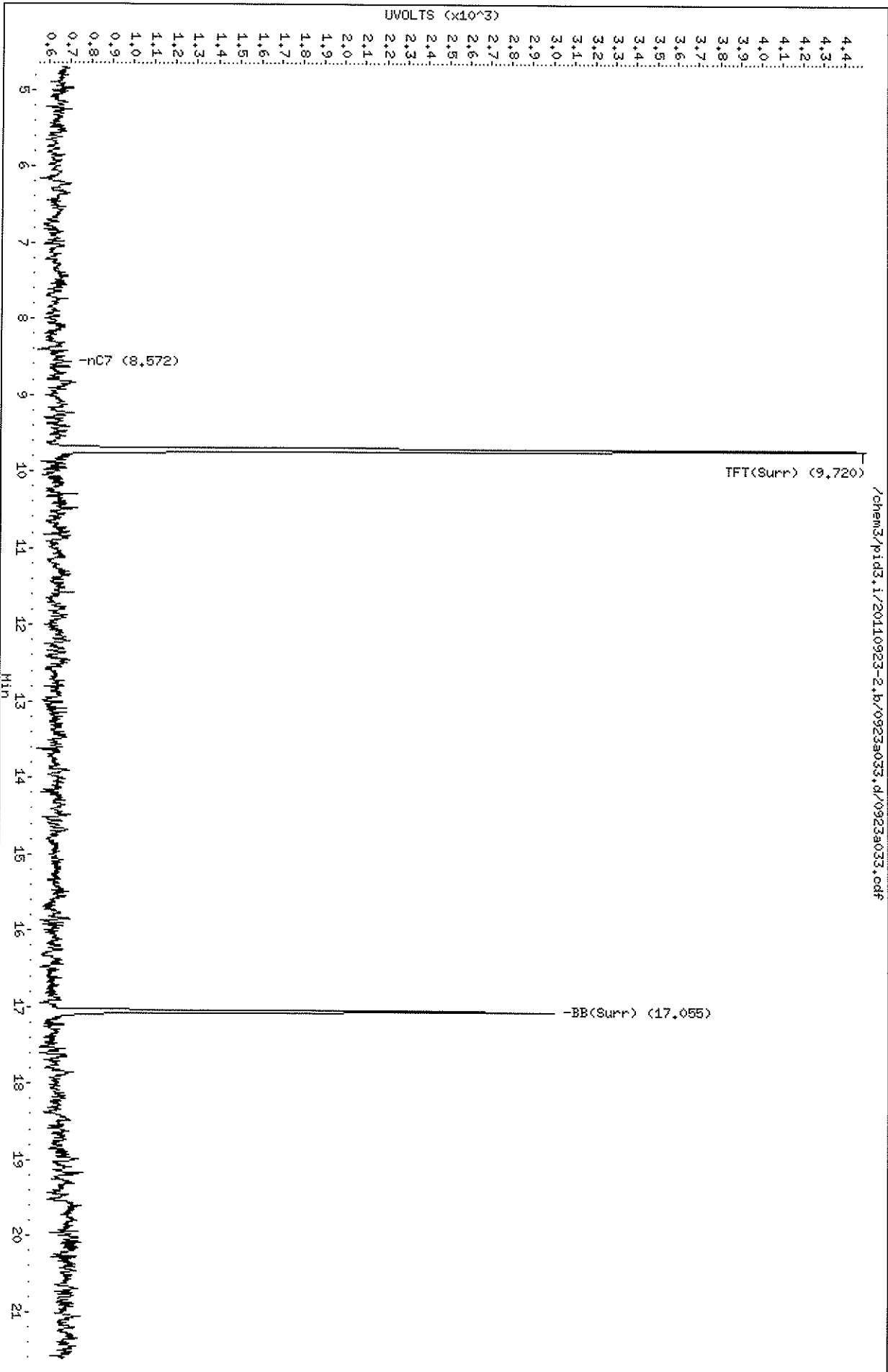
Column phase: RTX 502-2 FID

Instrument: pid3.i

Operator: HH

Column diameter: 0.18

Page 1

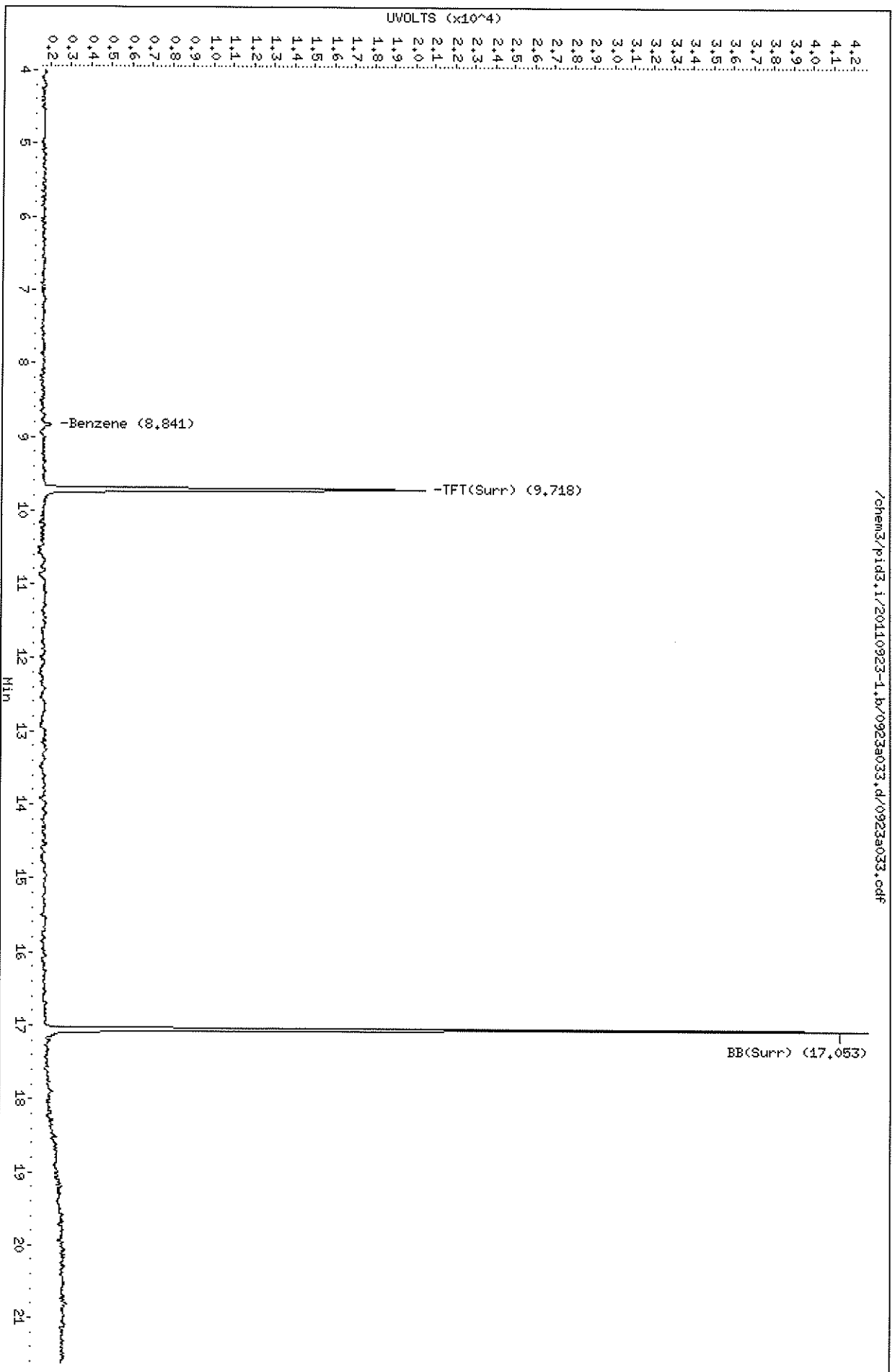


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Data File: /chem3/pid3.i/20110923-1.b/09233033.d
Date: 23-SEP-2011 20:08
Client ID: KJ-B22-9
Sample Info: TH63T

Column phase: RTX 502-2 PID

Instrument: pid3.i
Operator: MH
Column diameter: 0.18





Lab Sample ID: TM63U
 LIMS ID: 11-20263
 Matrix: Soil
 Data Release Authorized: *MW*
 Reported: 09/28/11

QC Report No: TM63-Kennedy Jenks Consultants
 Project: Ecology Cornet Bay
 Event: NA
 Date Sampled: 09/14/11
 Date Received: 09/16/11

Date Analyzed: 09/26/11 15:43
 Instrument/Analyst: PID2/MH

Purge Volume: 5.0 mL
 Sample Amount: 86 mg-dry-wt
 Percent Moisture: 15.3%

CAS Number	Analyte	RL	Result	
71-43-2	Benzene	14	450	
108-88-3	Toluene	14	< 14 U	
100-41-4	Ethylbenzene	14	< 14 U	
179601-23-1	m,p-Xylene	29	< 29 U	
95-47-6	o-Xylene	14	< 14 U	
	Gasoline Range Hydrocarbons	5.8	< 5.8 U	GAS ID ---

BETX Surrogate Recovery

Trifluorotoluene	99.9%
Bromobenzene	97.8%

Gasoline Surrogate Recovery

Trifluorotoluene	102%
Bromobenzene	96.4%

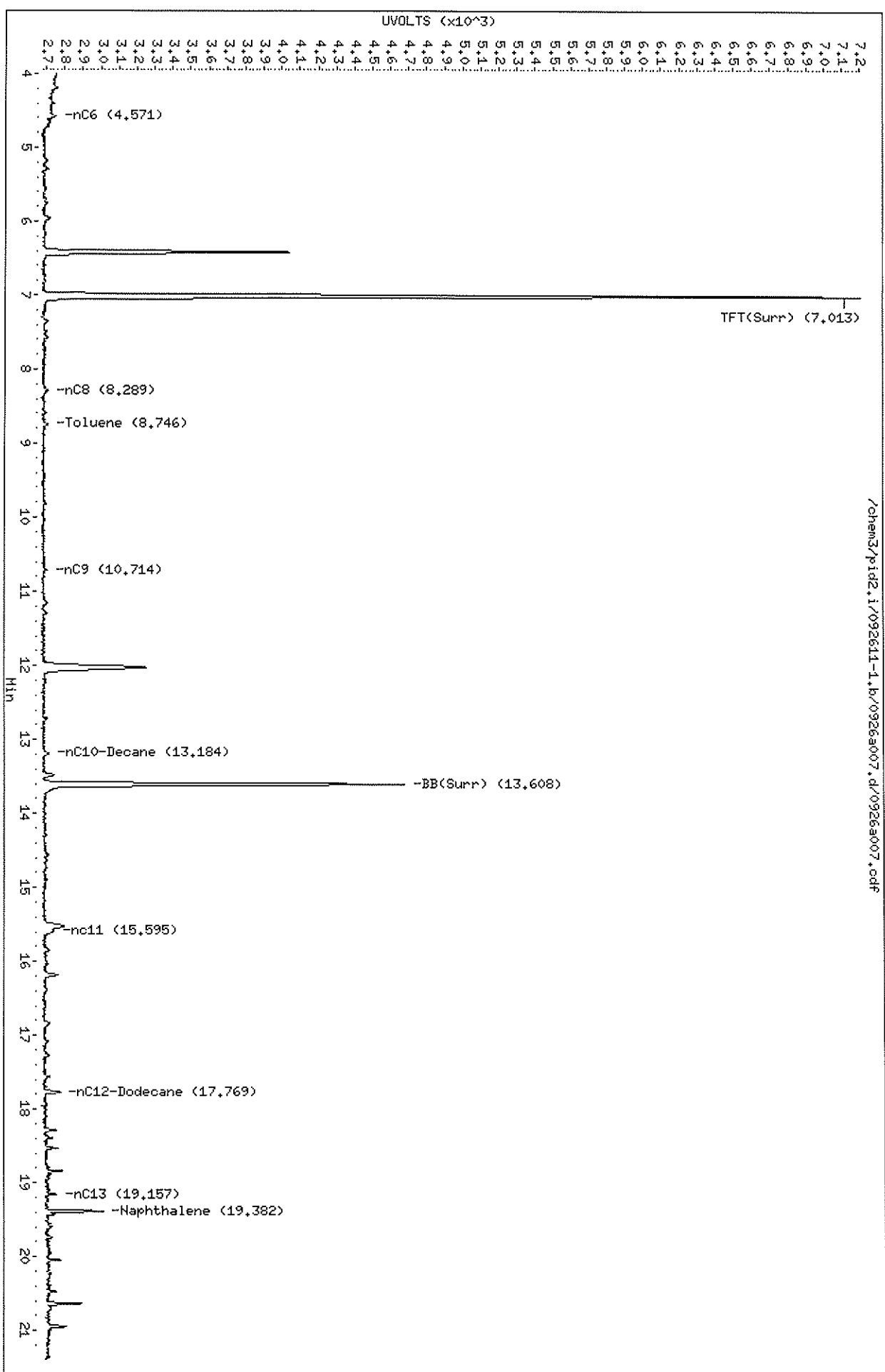
BETX values reported in µg/kg (ppb)
 Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.
 Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.
 Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

Data File: /chem3/pid2.i/092611-1.b/0926s007.d
Date: 26-SEP-2011 15:43
Client ID: KJ-B28-12
Sample Info: TM63U

Column phase: RTX 502-2 FID

Instrument: pid2.i
Operator: PC/KS
Column diameter: 0.18



/chem3/pid2.i/092611-1.b/0926s007.d/0926s007.cdf

Data File: /chem3/pid2.i/092611-2.b/0926a007.d

Date: 26-SEP-2011 15:43

Client ID: KJ-B28-12

Sample Info: TM63U

Page 1

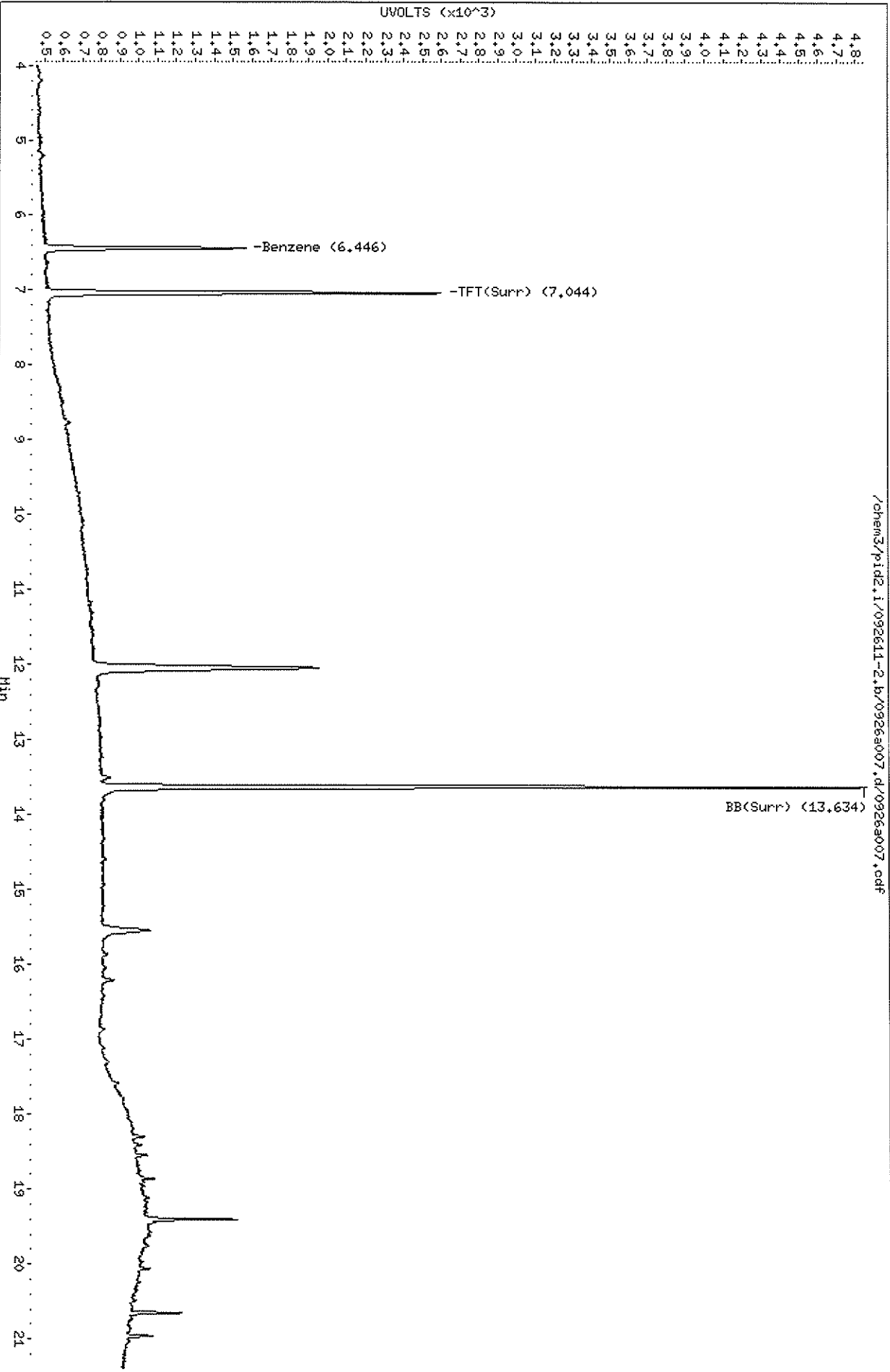
Instrument: pid2.i

Operator: PC/MHS

Column diameter: 0.18

Column phase: RTX 502-2 PID

/chem3/pid2.i/092611-2.b/0926a007.d/0926a007.cdf



BETX WATER SURROGATE RECOVERY SUMMARY

ARI Job: TM63
Matrix: Water

QC Report No: TM63-Kennedy Jenks Consultants
Project: Ecology Cornet Bay
Event: NA

<u>Client ID</u>	<u>TFT</u>	<u>BBZ</u>	<u>TOT OUT</u>
Trip Blank	97.8%	93.8%	0

	LCS/MB LIMITS	QC LIMITS
(TFT) = Trifluorotoluene	(79-120)	(80-120)
(BBZ) = Bromobenzene	(79-120)	(80-120)

Log Number Range: 11-20259 to 11-20259

BETX SOIL SURROGATE RECOVERY SUMMARY

ARI Job: TM63
Matrix: Soil

QC Report No: TM63-Kennedy Jenks Consultants
Project: Ecology Cornet Bay
Event: NA

<u>Client ID</u>	<u>TFT</u>	<u>BBZ</u>	<u>TOT OUT</u>
MB-092311	93.6%	92.5%	0
LCS-092311	92.7%	91.1%	0
LCSD-092311	97.2%	95.1%	0
KJ-B20-7	95.8%	94.1%	0
KJ-B21-3	91.1%	89.4%	0
KJ-B100	96.3%	95.5%	0
KJ-B22-5	100%	103%	0
KJ-B23-8	95.5%	95.6%	0
KJ-B24-7	92.7%	91.2%	0
KJ-B25-4	92.4%	92.7%	0
KJ-B26-8	93.4%	94.8%	0
KJ-B27-12	92.4%	95.0%	0
KJ-B28-16	92.1%	93.0%	0
KJ-B29-7	92.2%	93.7%	0
KJ-B29-18	91.8%	92.3%	0
KJ-B30-8	92.1%	93.7%	0
KJ-B30-17	93.2%	93.8%	0
KJ-B31-4	85.8%	90.2%	0
KJ-B32-4	89.7%	101%	0
KJ-B32-4 MS	90.5%	102%	0
KJ-B32-4 MSD	94.6%	103%	0
KJ-B19-7	94.1%	95.2%	0
KJ-B20-10	93.5%	96.5%	0
KJ-B22-9	91.7%	95.7%	0

	LCS/MB LIMITS	QC LIMITS
(TFT) = Trifluorotoluene	(80-120)	(68-124)
(BBZ) = Bromobenzene	(77-120)	(62-134)

Log Number Range: 11-20243 to 11-20262

BETX SOIL SURROGATE RECOVERY SUMMARY

ARI Job: TM63
Matrix: Soil

QC Report No: TM63-Kennedy Jenks Consultants
Project: Ecology Cornet Bay
Event: NA

<u>Client ID</u>	<u>TFT</u>	<u>BBZ</u>	<u>TOT OUT</u>
MB-092611	89.9%	92.6%	0
LCS-092611	93.7%	93.7%	0
LCSD-092611	96.1%	97.2%	0
KJ-B28-12	99.9%	97.8%	0

	<u>LCS/MB LIMITS</u>	<u>QC LIMITS</u>
(TFT) = Trifluorotoluene	(80-120)	(68-124)
(BBZ) = Bromobenzene	(77-120)	(62-134)

Log Number Range: 11-20263 to 11-20263

TPHG WATER SURROGATE RECOVERY SUMMARY

ARI Job: TM63
Matrix: Water

QC Report No: TM63-Kennedy Jenks Consultants
Project: Ecology Cornet Bay
Event: NA

<u>Client ID</u>	<u>TFT</u>	<u>BBZ</u>	<u>TOT OUT</u>
Trip Blank	100%	96.0%	0

	<u>LCS/MB LIMITS</u>	<u>QC LIMITS</u>
(TFT) = Trifluorotoluene	(80-120)	(80-120)
(BBZ) = Bromobenzene	(80-120)	(80-120)

Log Number Range: 11-20259 to 11-20259

TPHG SOIL SURROGATE RECOVERY SUMMARY

ARI Job: TM63
Matrix: Soil

QC Report No: TM63-Kennedy Jenks Consultants
Project: Ecology Cornet Bay
Event: NA

Client ID	BFB	TFT	BBZ	TOT OUT
MB-092311	NA	95.7%	93.9%	0
LCS-092311	NA	94.6%	94.4%	0
LCSD-092311	NA	99.8%	101%	0
KJ-B20-7	NA	98.0%	98.4%	0
KJ-B21-3	NA	94.9%	93.6%	0
KJ-B100	NA	99.6%	97.9%	0
KJ-B22-5	NA	101%	120%	0
KJ-B23-8	NA	96.9%	98.7%	0
KJ-B24-7	NA	95.0%	95.2%	0
KJ-B25-4	NA	96.3%	97.9%	0
KJ-B26-8	NA	93.3%	94.6%	0
KJ-B27-12	NA	91.9%	96.8%	0
KJ-B28-16	NA	92.0%	93.9%	0
KJ-B29-7	NA	95.7%	96.4%	0
KJ-B29-18	NA	92.4%	91.3%	0
KJ-B30-8	NA	91.6%	98.9%	0
KJ-B30-17	NA	93.7%	95.6%	0
KJ-B31-4	NA	89.9%	91.1%	0
KJ-B32-4	NA	90.5%	105%	0
KJ-B32-4 MS	NA	91.8%	111%	0
KJ-B32-4 MSD	NA	95.8%	114%	0
KJ-B19-7	NA	91.1%	97.4%	0
KJ-B20-10	NA	92.0%	101%	0
KJ-B22-9	NA	91.6%	98.6%	0

	LCS/MB LIMITS	QC LIMITS
(BFB) = Bromofluorobenzene	(70-130)	(70-130)
(TFT) = Trifluorotoluene	(80-120)	(66-123)
(BBZ) = Bromobenzene	(80-120)	(62-130)

Log Number Range: 11-20243 to 11-20262

TPHG SOIL SURROGATE RECOVERY SUMMARY

ARI Job: TM63
Matrix: Soil

QC Report No: TM63-Kennedy Jenks Consultants
Project: Ecology Cornet Bay
Event: NA

<u>Client ID</u>	<u>BFB</u>	<u>TFT</u>	<u>BBZ</u>	<u>TOT OUT</u>
MB-092611	NA	97.0%	97.3%	0
LCS-092611	NA	104%	101%	0
LCSD-092611	NA	106%	103%	0
KJ-B28-12	NA	102%	96.4%	0

	<u>LCS/MB LIMITS</u>	<u>QC LIMITS</u>
(BFB) = Bromofluorobenzene	(70-130)	(70-130)
(TFT) = Trifluorotoluene	(80-120)	(66-123)
(BBZ) = Bromobenzene	(80-120)	(62-130)

Log Number Range: 11-20263 to 11-20263

Sample ID: KJ-B32-4
 MATRIX SPIKE

Lab Sample ID: TM63P
 LIMS ID: 11-20258
 Matrix: Soil
 Data Release Authorized: *[Signature]*
 Reported: 09/28/11

QC Report No: TM63-Kennedy Jenks Consultants
 Project: Ecology Cornet Bay
 Event: NA
 Date Sampled: 09/14/11
 Date Received: 09/16/11

Date Analyzed MS: 09/23/11 18:23
 MSD: 09/23/11 18:49
 Instrument/Analyst MS: PID3/MH
 MSD: PID3/MH

Purge Volume: 5.0 mL
 Sample Amount MS: 98.5 mg-dry-wt
 MSD: 98.5 mg-dry-wt

Analyte	Sample	Spike		MS		Spike		MSD	
		MS	Added-MS	Recovery	MSD	Added-MSD	Recovery	RPD	
Benzene	18.3	179	188	85.5%	186	188	89.2%	3.8%	
Toluene	93.4	1730	1850	88.5%	1730	1850	88.5%	0.0%	
Ethylbenzene	604	1080	543	87.7%	1090	543	89.5%	0.9%	
m,p-Xylene	125	1960	2040	90.0%	1970	2040	90.4%	0.5%	
o-Xylene	57.3	907	919	92.5%	895	919	91.2%	1.3%	

Reported in µg/kg (ppb)

RPD calculated using sample concentrations per SW846.

BETX Surrogate Recovery

	MS	MSD
Trifluorotoluene	90.5%	94.6%
Bromobenzene	102%	103%

ORGANICS ANALYSIS DATA SHEET

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: KJ-B32-4

MATRIX SPIKE

Lab Sample ID: TM63P

LIMS ID: 11-20258

Matrix: Soil

Data Release Authorized: *MMW*

Reported: 09/28/11

QC Report No: TM63-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Event: NA

Date Sampled: 09/14/11

Date Received: 09/16/11

Date Analyzed MS: 09/23/11 18:23

MSD: 09/23/11 18:49

Instrument/Analyst MS: PID3/MH

MSD: PID3/MH

Purge Volume: 5.0 mL

Sample Amount MS: 98.5 mg-dry-wt

MSD: 98.5 mg-dry-wt

Analyte	Sample	MS	Spike	MS	MSD	Spike	MSD	RPD
			Added-MS	Recovery		Added-MSD	Recovery	
Gasoline Range Hydrocarbons	246	286	50.8	78.7%	300	50.8	106%	4.8%

Reported in mg/kg (ppm)

RPD calculated using sample concentrations per SW846.

TPHG Surrogate Recovery

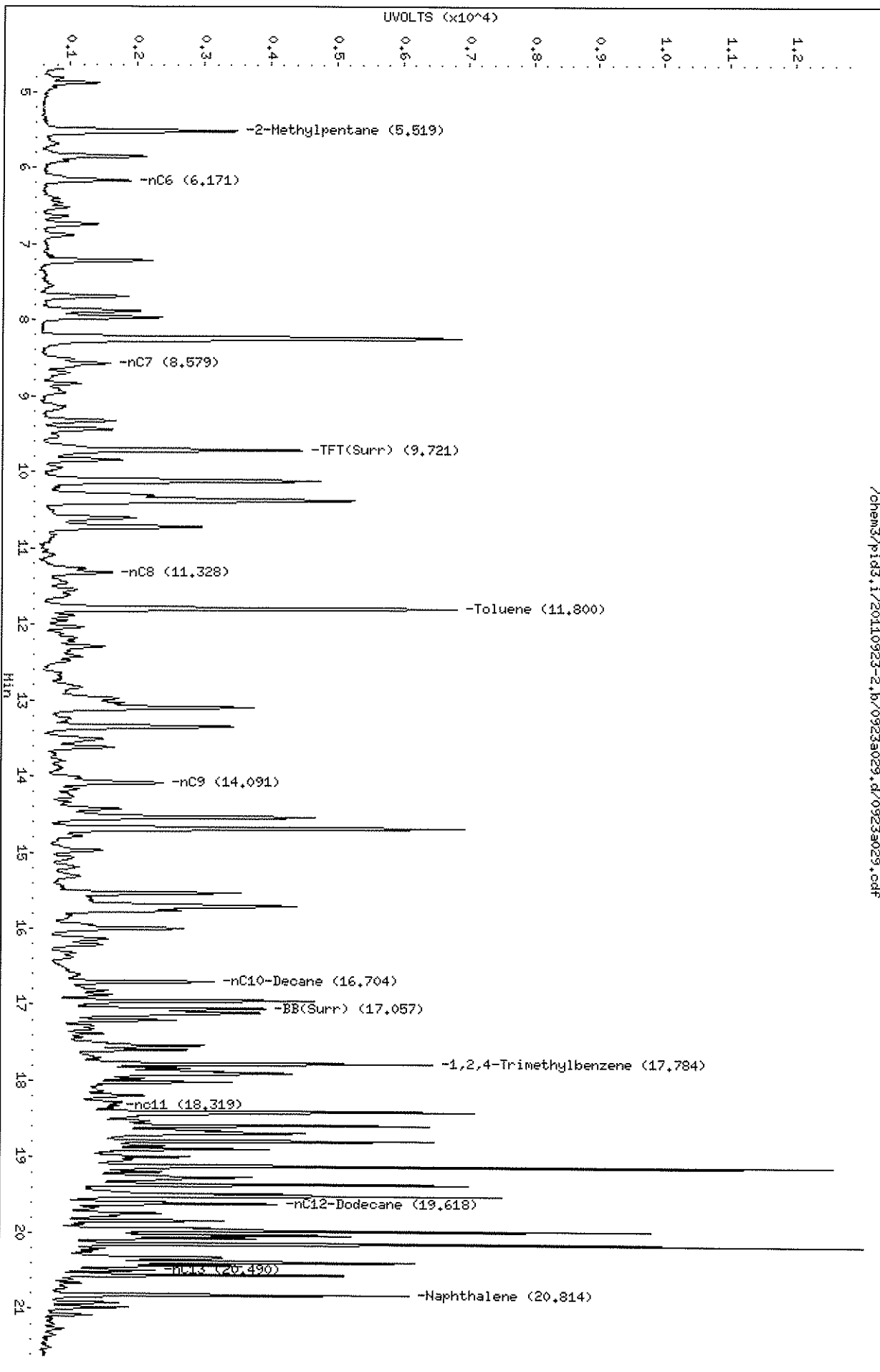
	MS	MSD
Trifluorotoluene	91.8%	95.8%
Bromobenzene	111%	114%

Data File: /chem3/pid3.i/20110923-2.b/0923a029.d
Date: 23-SEP-2011 18:23
Client ID:
Sample Info: TM63PMS

Column phase: RTX 502-2 FID

/chem3/pid3.i/20110923-2.b/0923a029.d/0923a029.cdf

Instrument: pid3.i
Operator: HM
Column diameter: 0.18



Data File: /chem3/pid3.i/20110923-1.b/0923a029.d

Date : 23-SEP-2011 18:23

Client ID:

Sample Infol: TH63PHS

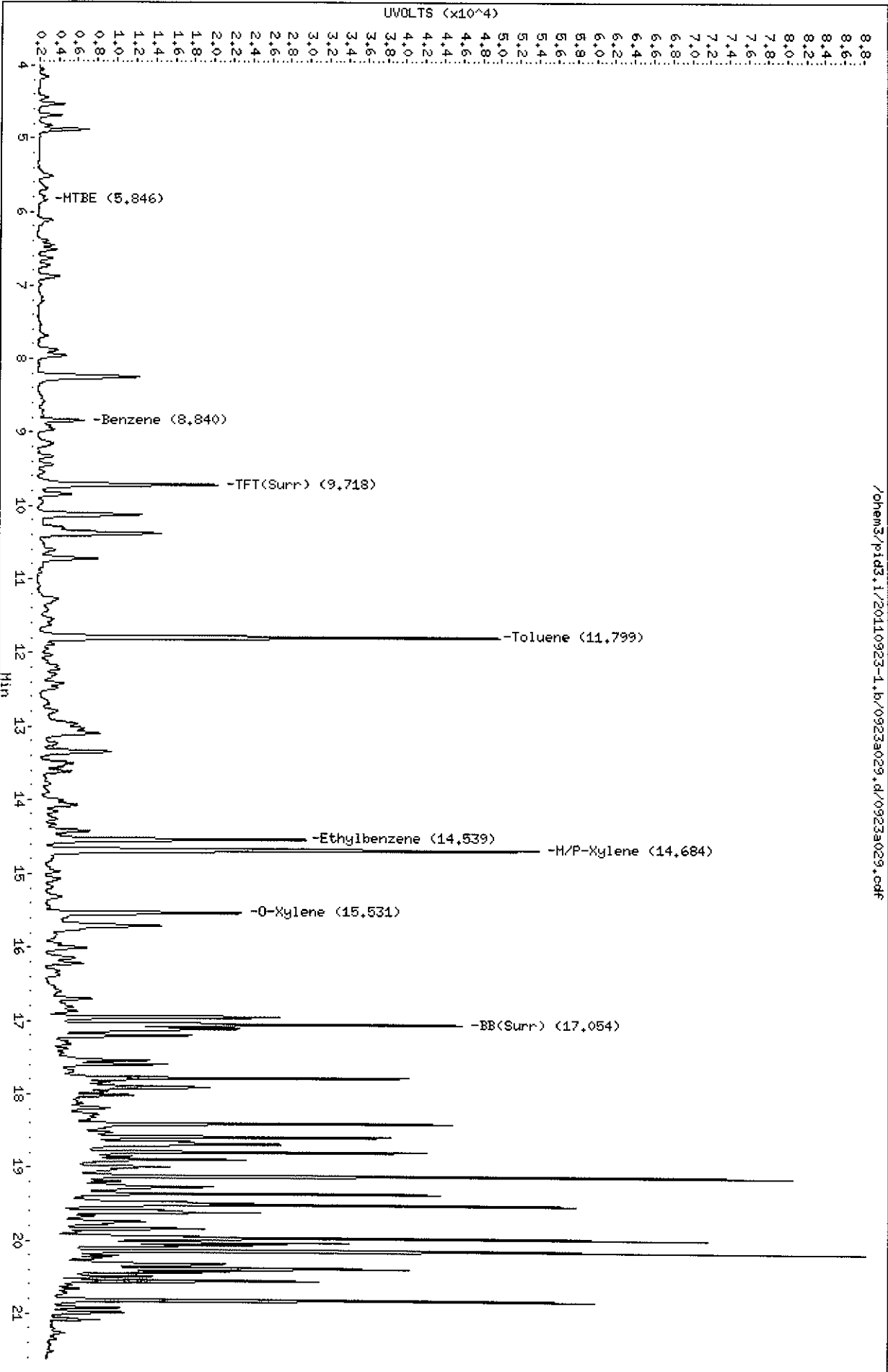
Instrument: pid3.i

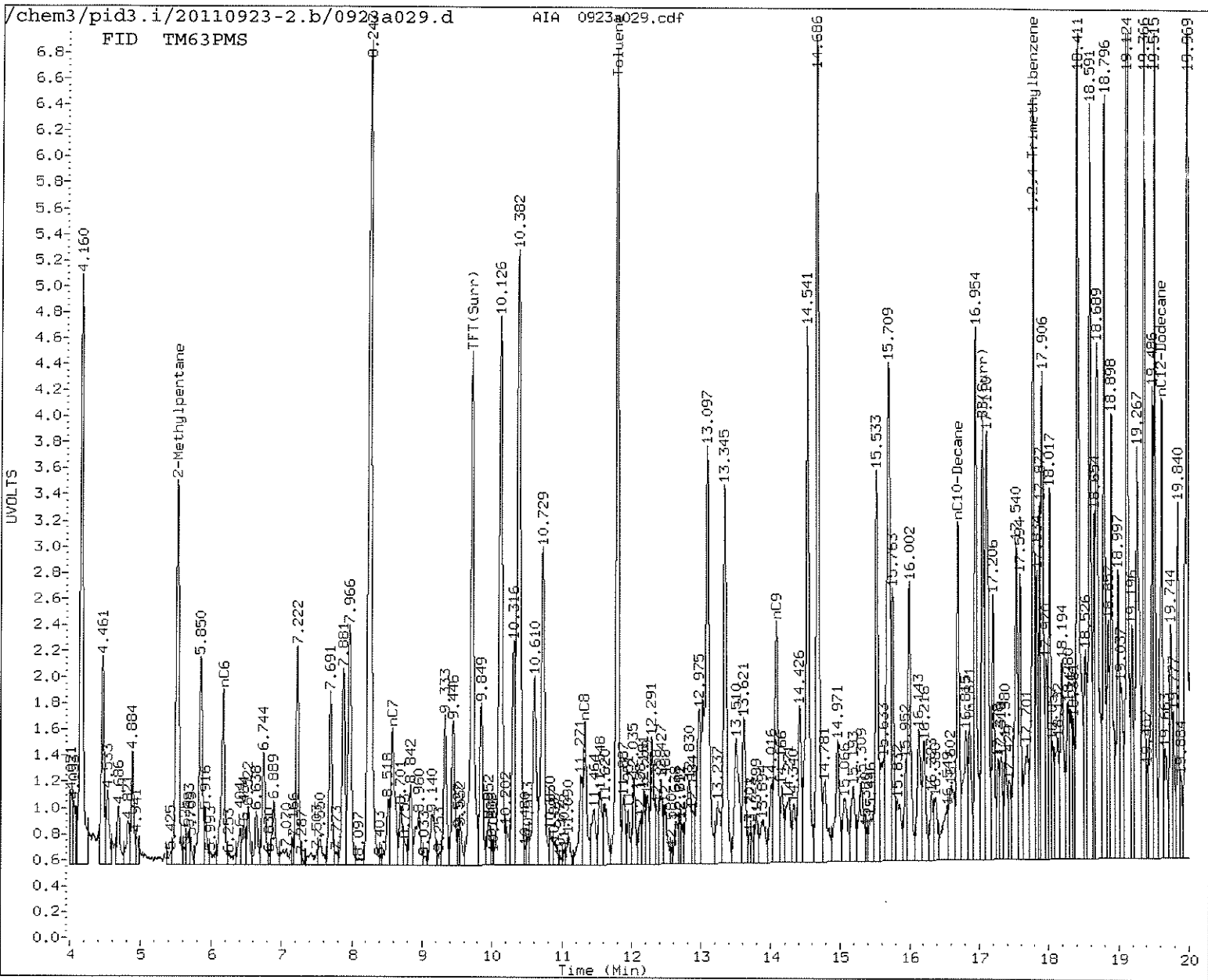
Operator: HH

Column diameter: 0.18

Column phase: RTX B02-2 PID

/chem3/pid3.i/20110923-1.b/0923a029.d/0923a029.cdf





MANUAL INTEGRATION

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

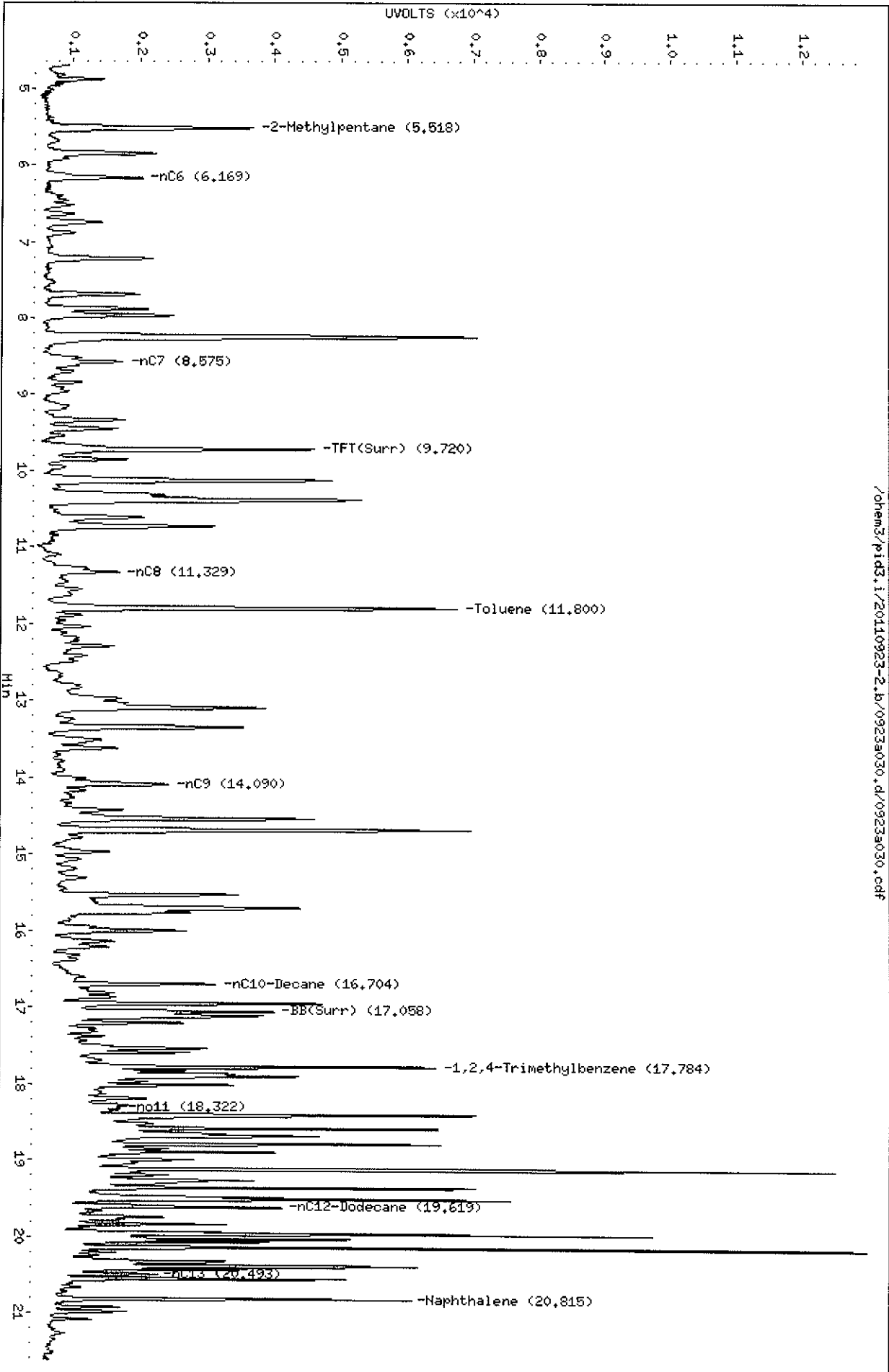
Analyst: MH Date: 9/28/11

Data File: /chem3/pid3.i/20110923-2.b/0923a030.d
Date: 23-SEP-2011 18:49
Client ID:
Sample Infol: TM63PHSD

Column phase: RTX 502-2 FID

/chem3/pid3.i/20110923-2.b/0923a030.d/0923a030.cdf

Instrument: pid3.i
Operator: HH
Column diameter: 0.18

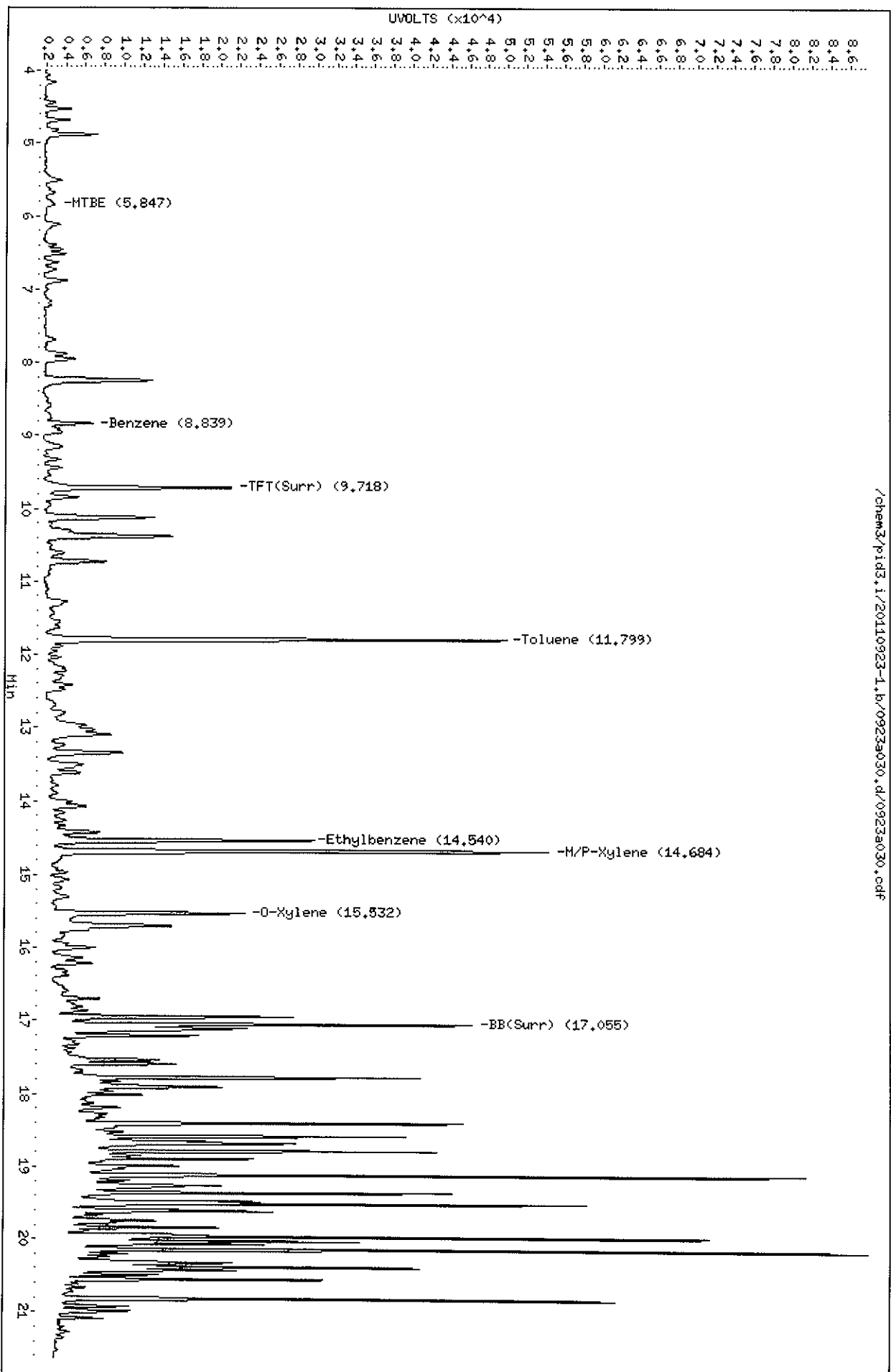


Data File: /chem3/pid3.i/20110923-1.k/0923a030.d
Date : 23-SEP-2011 18:49
Client ID:
Sample Info: TH63PHSD

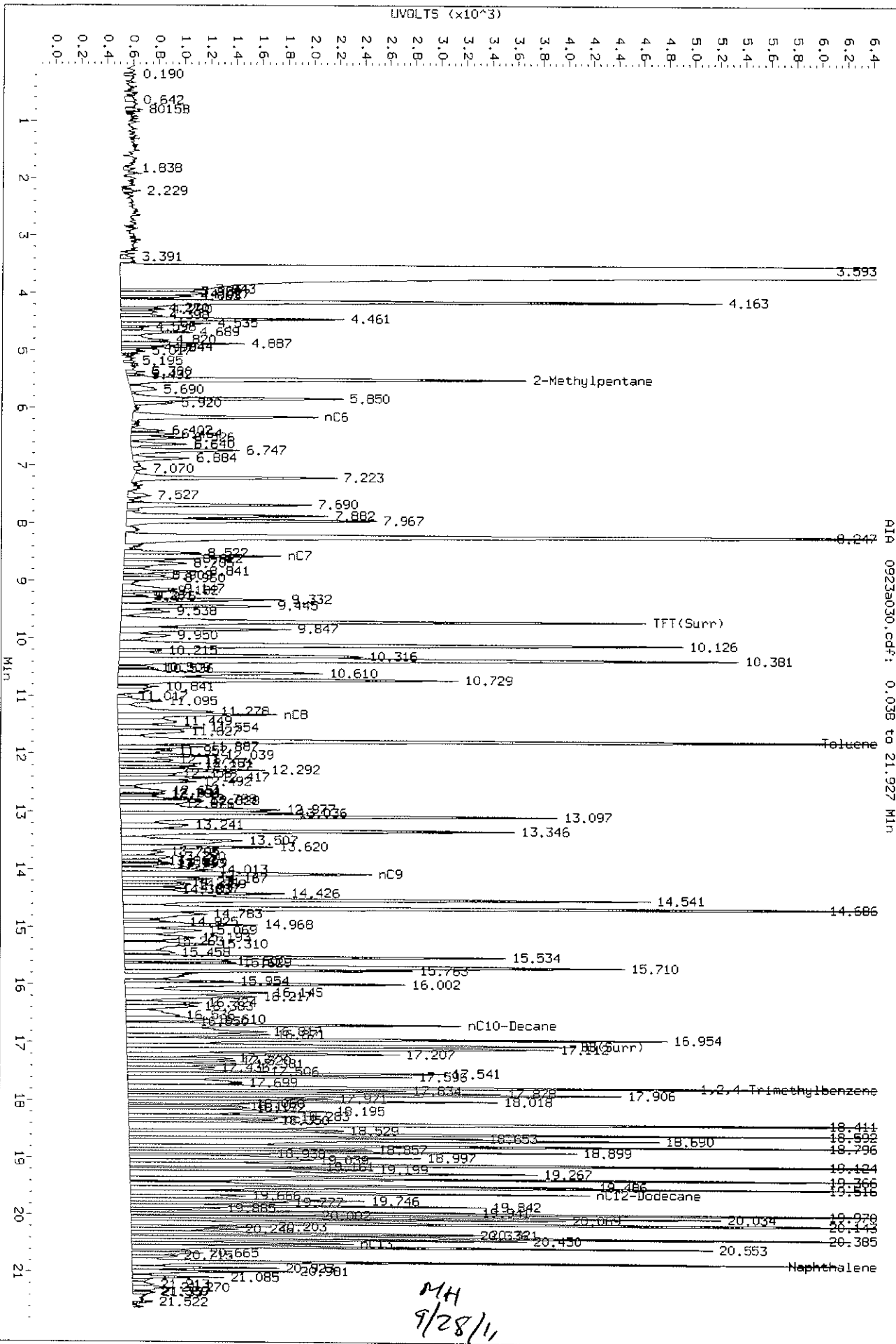
Column phase: RTX 502-2 PID

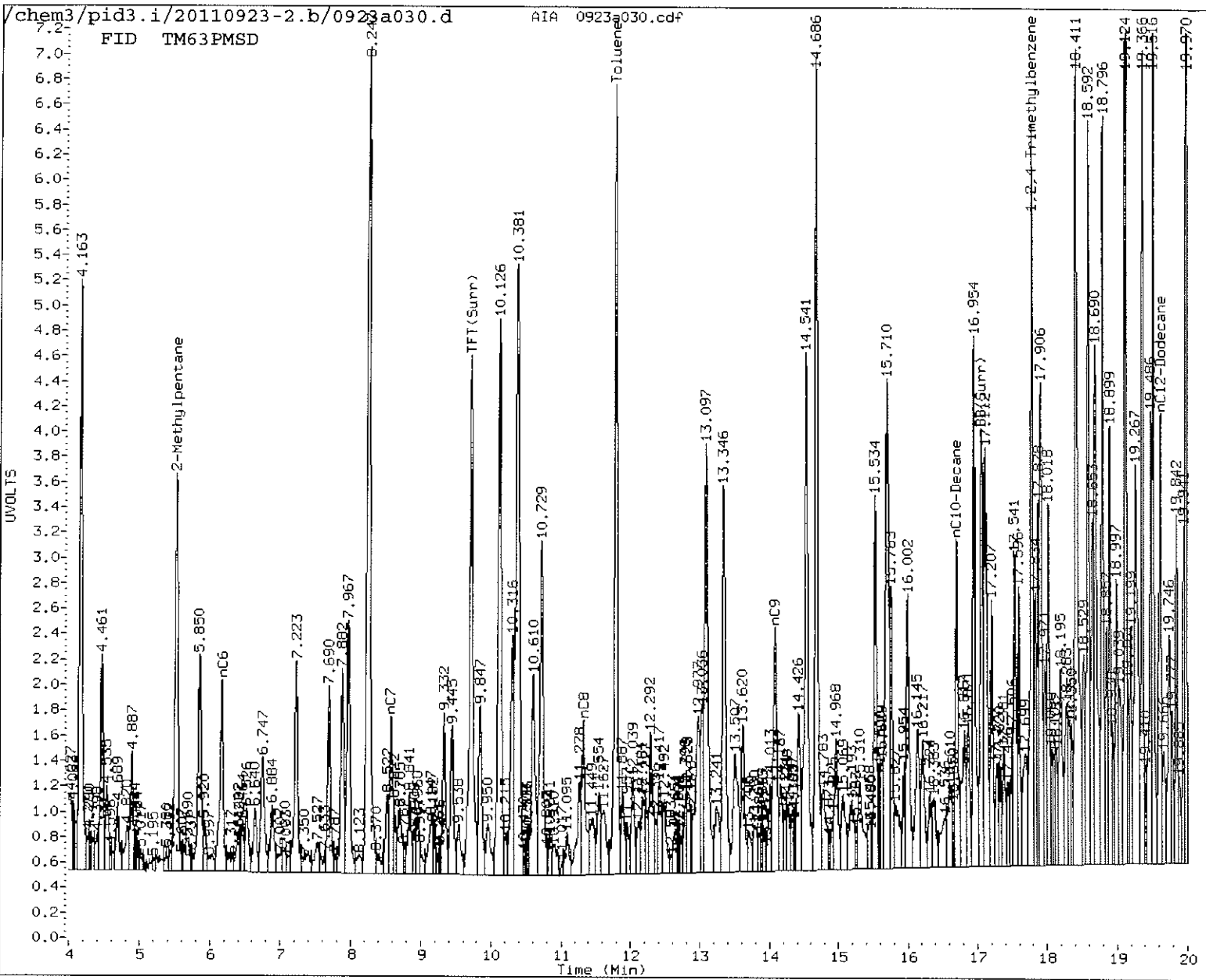
/chem3/pid3.i/20110923-1.k/0923a030.d/0923a030.cdf

Instrument: pid3.i
Operator: NH
Column diameter: 0.18



Data File: /chem3/p1d3.1/20110923-2.b/0923a030.d/0923a030.cdf
 Injection Date: 23-SEP-2011 18:49
 Instrument: p1d3.1
 Client Sample ID:





MANUAL INTEGRATION

- Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: MH Date: 9/28/11

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod
Page 1 of 1

Sample ID: LCS-092311
LAB CONTROL SAMPLE

Lab Sample ID: LCS-092311
LIMS ID: 11-20243
Matrix: Soil
Data Release Authorized: *MM*
Reported: 09/28/11

QC Report No: TM63-Kennedy Jenks Consultants
Project: Ecology Cornet Bay
Event: NA
Date Sampled: NA
Date Received: NA

Date Analyzed LCS: 09/23/11 06:47
LCSD: 09/23/11 07:13
Instrument/Analyst LCS: PID3/MH
LCSD: PID3/MH

Purge Volume: 5.0 mL
Sample Amount LCS: 100 mg-dry-wt
LCSD: 100 mg-dry-wt

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Benzene	163	185	88.1%	167	185	90.3%	2.4%
Toluene	1640	1820	90.1%	1650	1820	90.7%	0.6%
Ethylbenzene	471	535	88.0%	481	535	89.9%	2.1%
m,p-Xylene	1830	2000	91.5%	1830	2000	91.5%	0.0%
o-Xylene	827	905	91.4%	838	905	92.6%	1.3%

Reported in µg/kg (ppb)

RPD calculated using sample concentrations per SW846.

BETX Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	92.7%	97.2%
Bromobenzene	91.1%	95.1%

ORGANICS ANALYSIS DATA SHEET
 TPHG by Method NWTPHG
 Page 1 of 1



Sample ID: LCS-092311
 LAB CONTROL SAMPLE

Lab Sample ID: LCS-092311
 LIMS ID: 11-20243
 Matrix: Soil
 Data Release Authorized: *YWW*
 Reported: 09/28/11

QC Report No: TM63-Kennedy Jenks Consultants
 Project: Ecology Cornet Bay
 Event: NA
 Date Sampled: NA
 Date Received: NA

Date Analyzed LCS: 09/23/11 06:47
 LCSD: 09/23/11 07:13
 Instrument/Analyst LCS: PID3/MH
 LCSD: PID3/MH

Purge Volume: 5.0 mL
 Sample Amount LCS: 100 mg-dry-wt
 LCSD: 100 mg-dry-wt

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Gasoline Range Hydrocarbons	51.8	50.0	104%	54.6	50.0	109%	5.3%

Reported in mg/kg (ppm)

RPD calculated using sample concentrations per SW846.

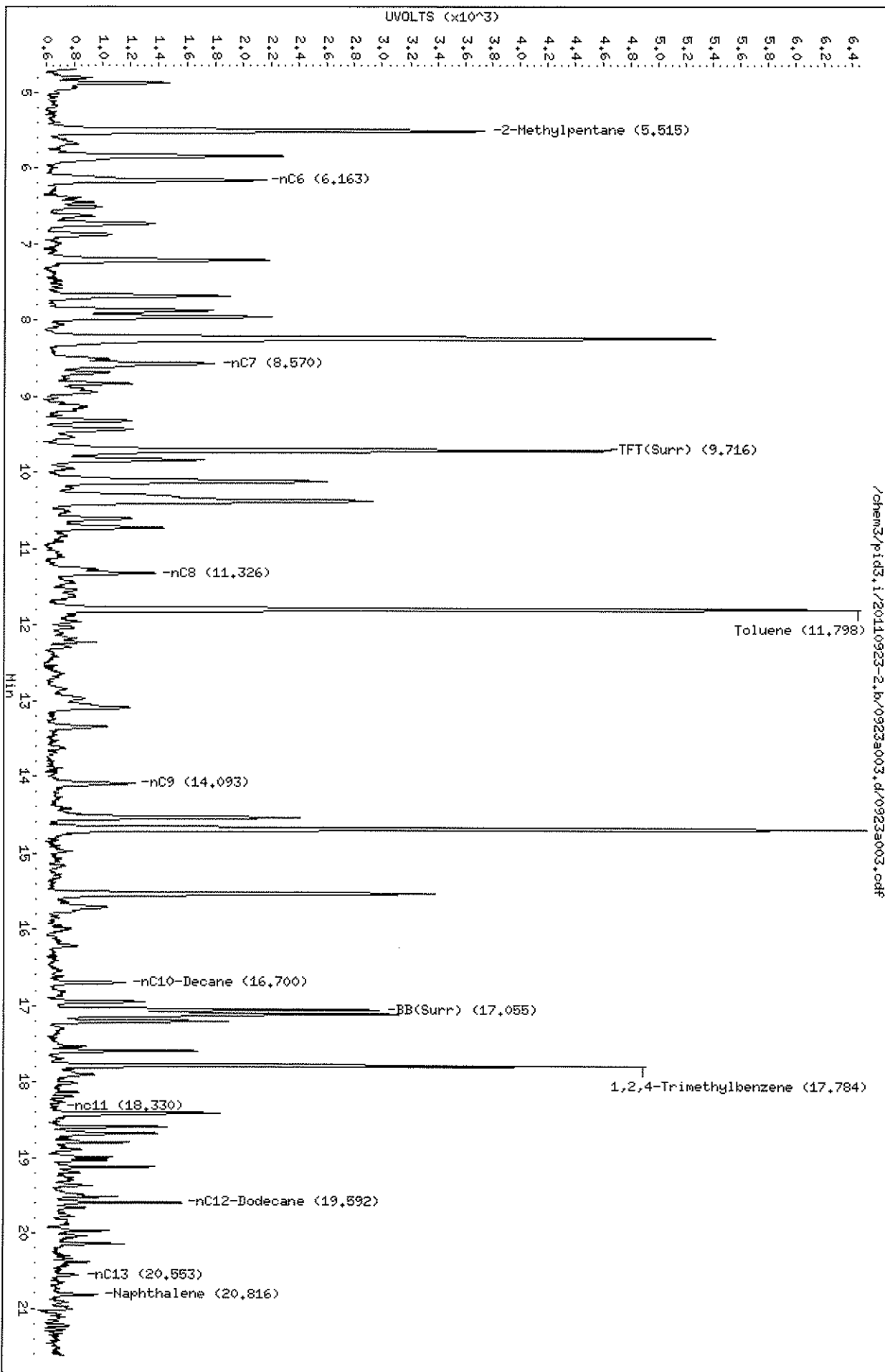
TPHG Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	94.6%	99.8%
Bromobenzene	94.4%	101%

Data File: /chem3/pid3.i/20110923-2.b/0923a003.d
Date: 23-SEP-2011 06:47
Client ID:
Sample Info: LCS0923

Column phase: RTX 502-2 FID

Instrument: pid3.i
Operator: HH
Column diameter: 0.18

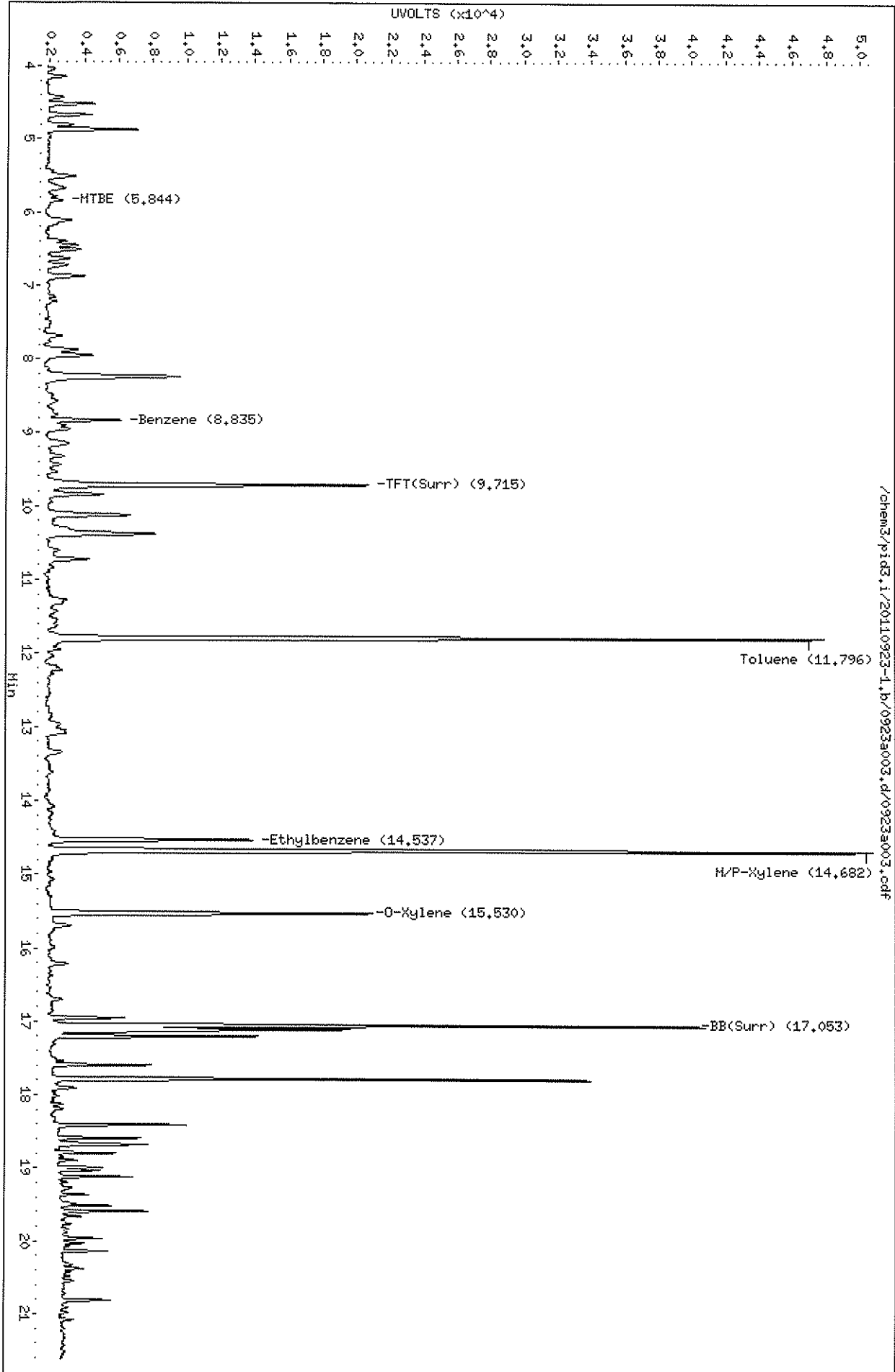


/chem3/pid3.i/20110923-2.b/0923a003.d/0923a003.cdf

Data File: /chem3/pid3.i/20110923-1.b/0923a003.d
Date: 23-SEP-2011 06:47
Client ID:
Sample Info: LCS0923

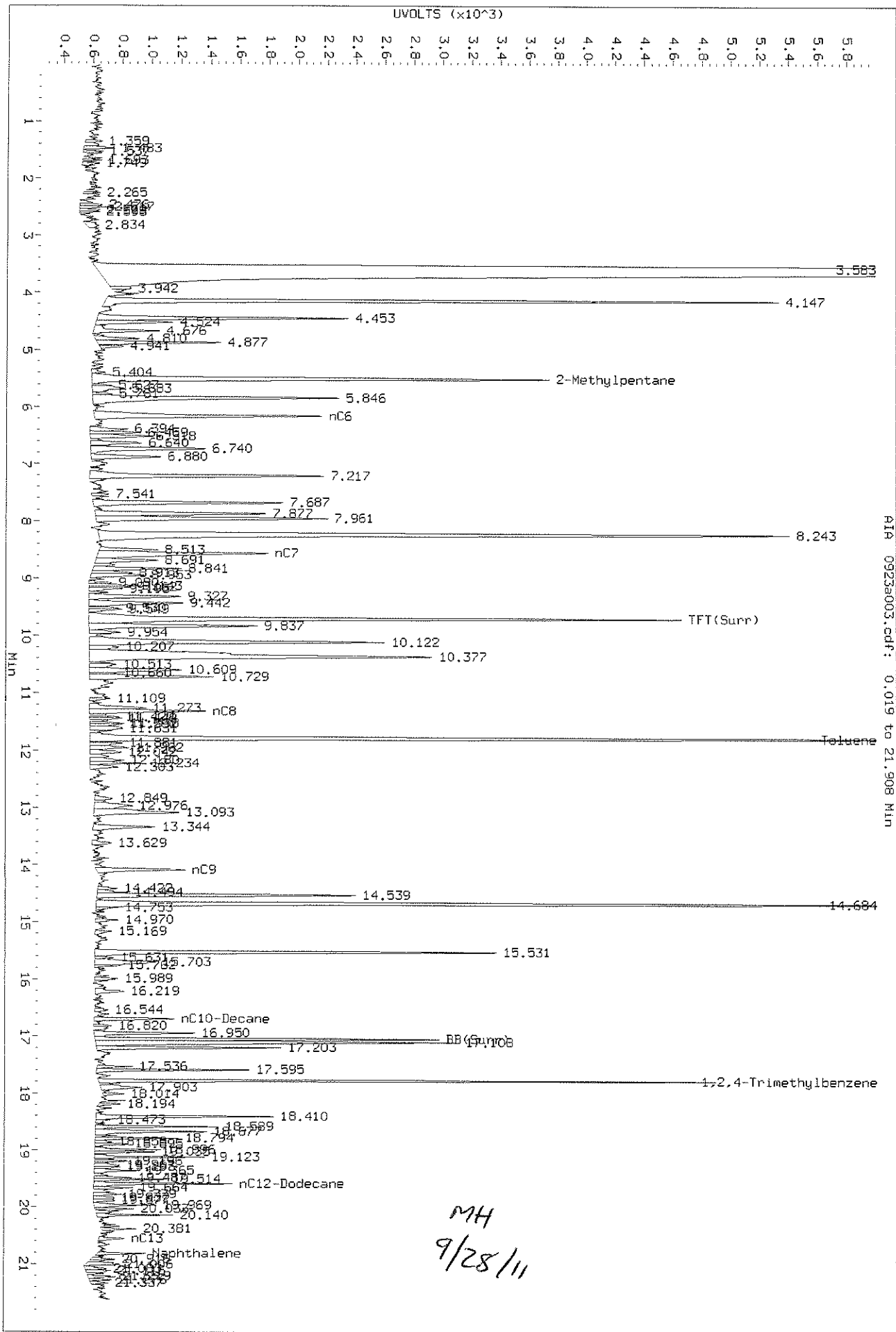
Column phase: RTX 502-2 PID

Instrument: pid3.i
Operator: HM
Column diameter: 0.18



09 41 59
1400

Data File: /chem3/pid3.1/20110923-2.b/0923a003.d/0923a003.cdf
Injection Date: 23-SEP-2011 06:47
Instrument: pid3.i
Client Sample ID:



AIA 0923a003.cdf : 0.019 to 21.908 MIN

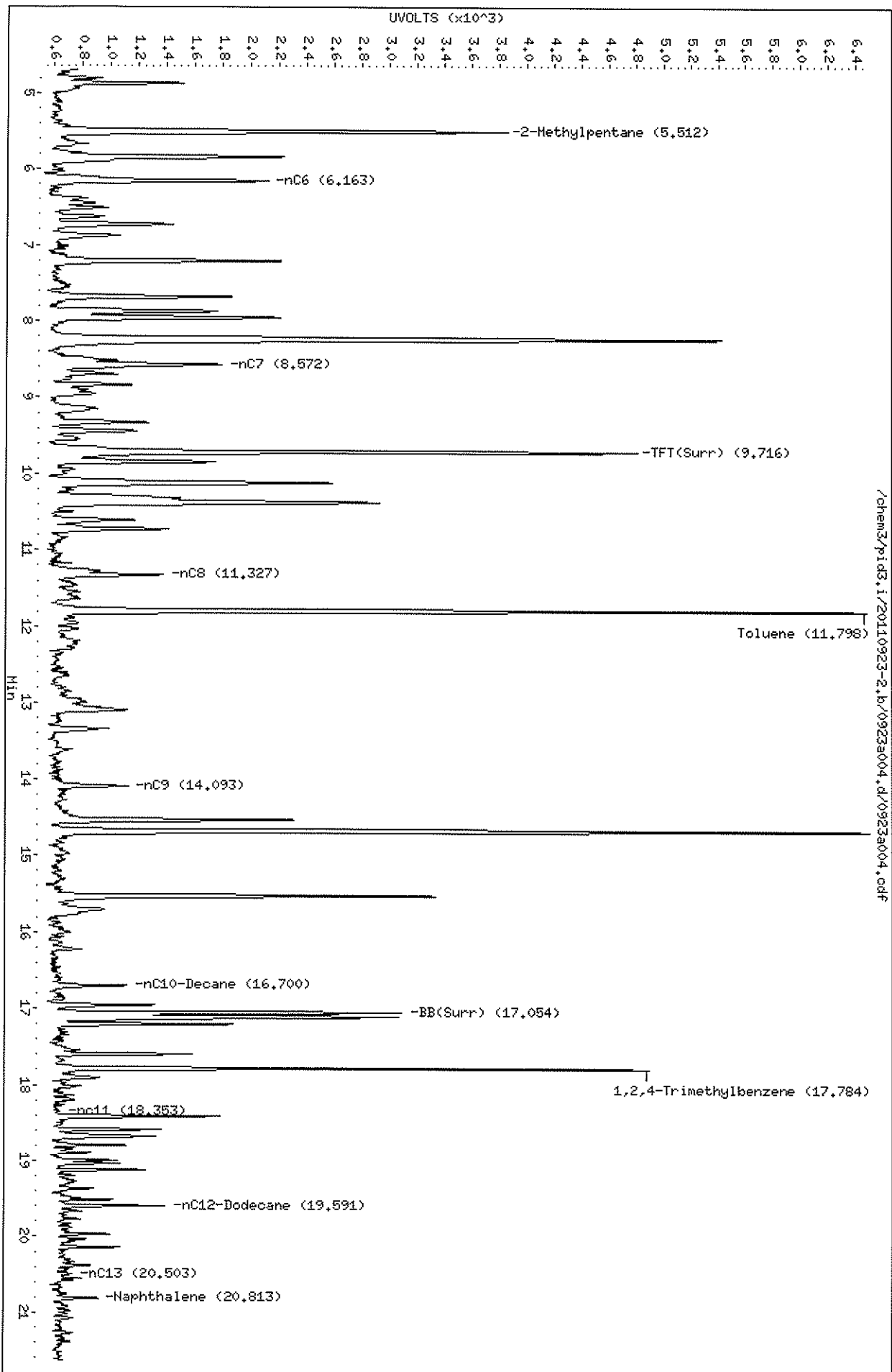
MH
9/28/11

Data File: /chem3/pid3.i/20110923-2.b/0923a004.d
Date: 23-SEP-2011 07:13
Client ID:
Sample Info: LCSD0923

Column phase: RTX 502-2 FID

/chem3/pid3.i/20110923-2.b/0923a004.d/0923a004.cdf

Instrument: pid3.i
Operator: HH
Column diameter: 0.18



0923a004.cdf

Data File: /chem3/pid3.i/20110923-1.b/0923a004.d

Date : 23-SEP-2011 07:13

Client ID:

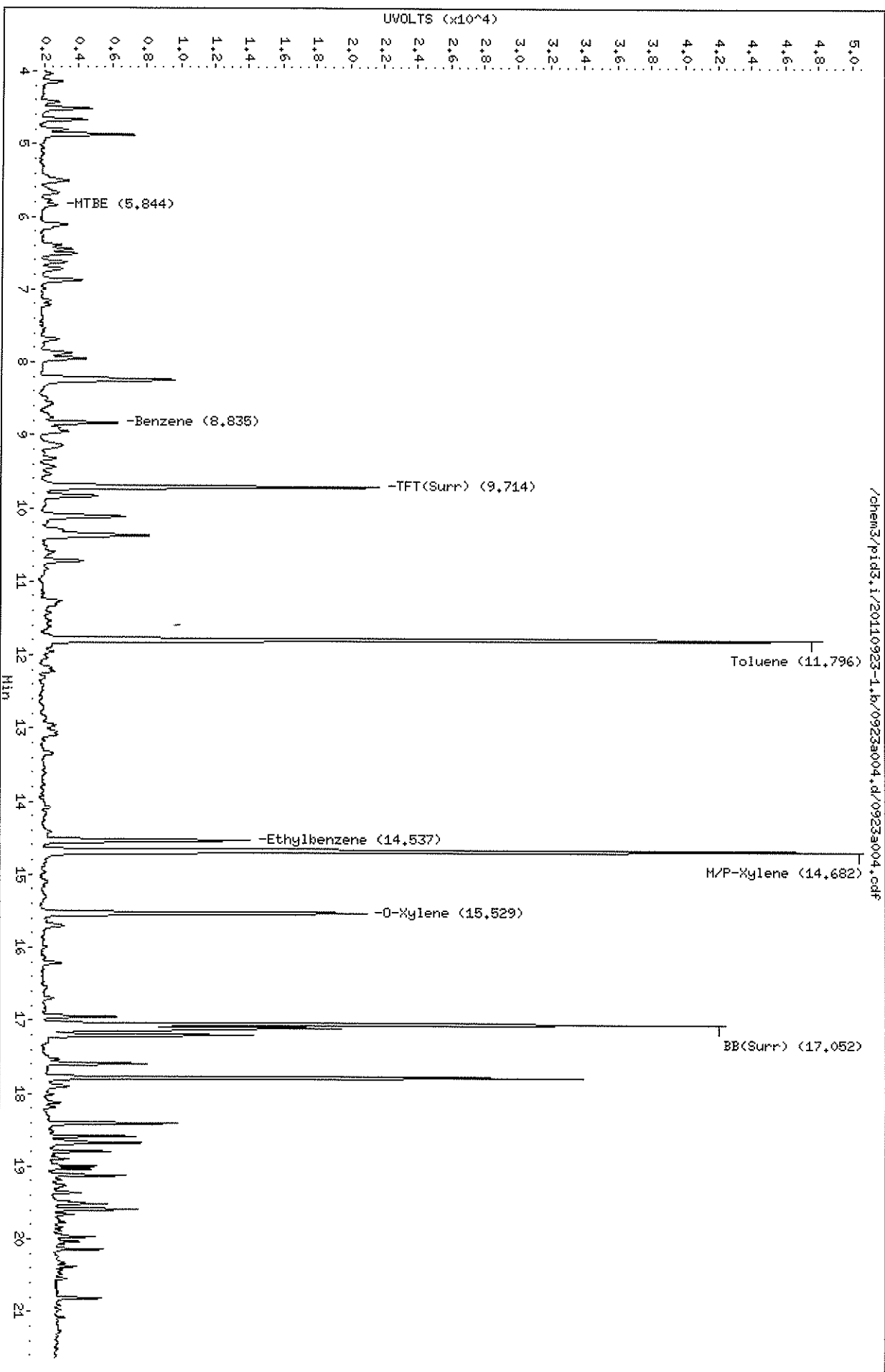
Sample Info: LCSD0923

Column phase: RTX 502-2 PID

Instrument: pid3.i

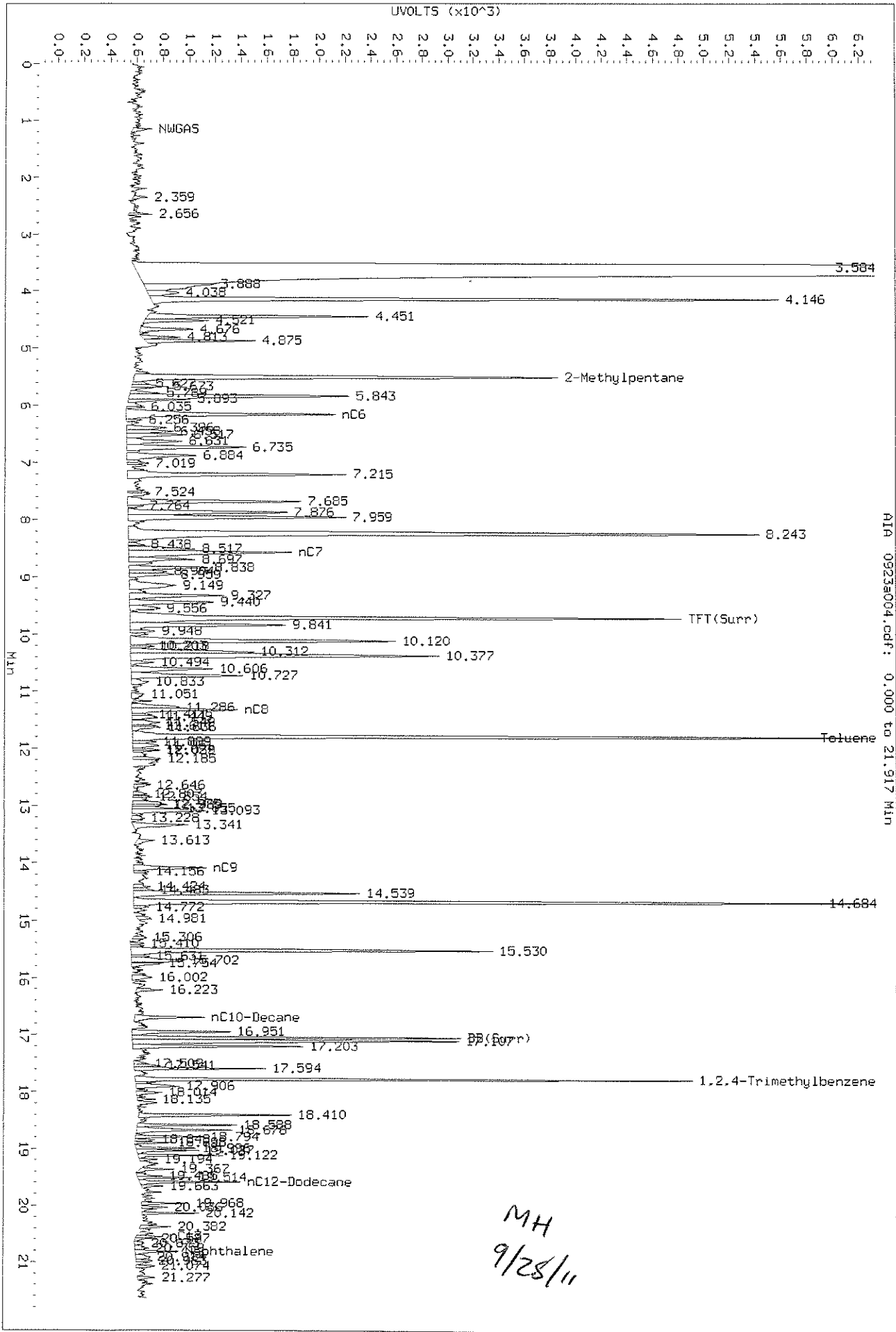
Operator: HH

Column diameter: 0.18



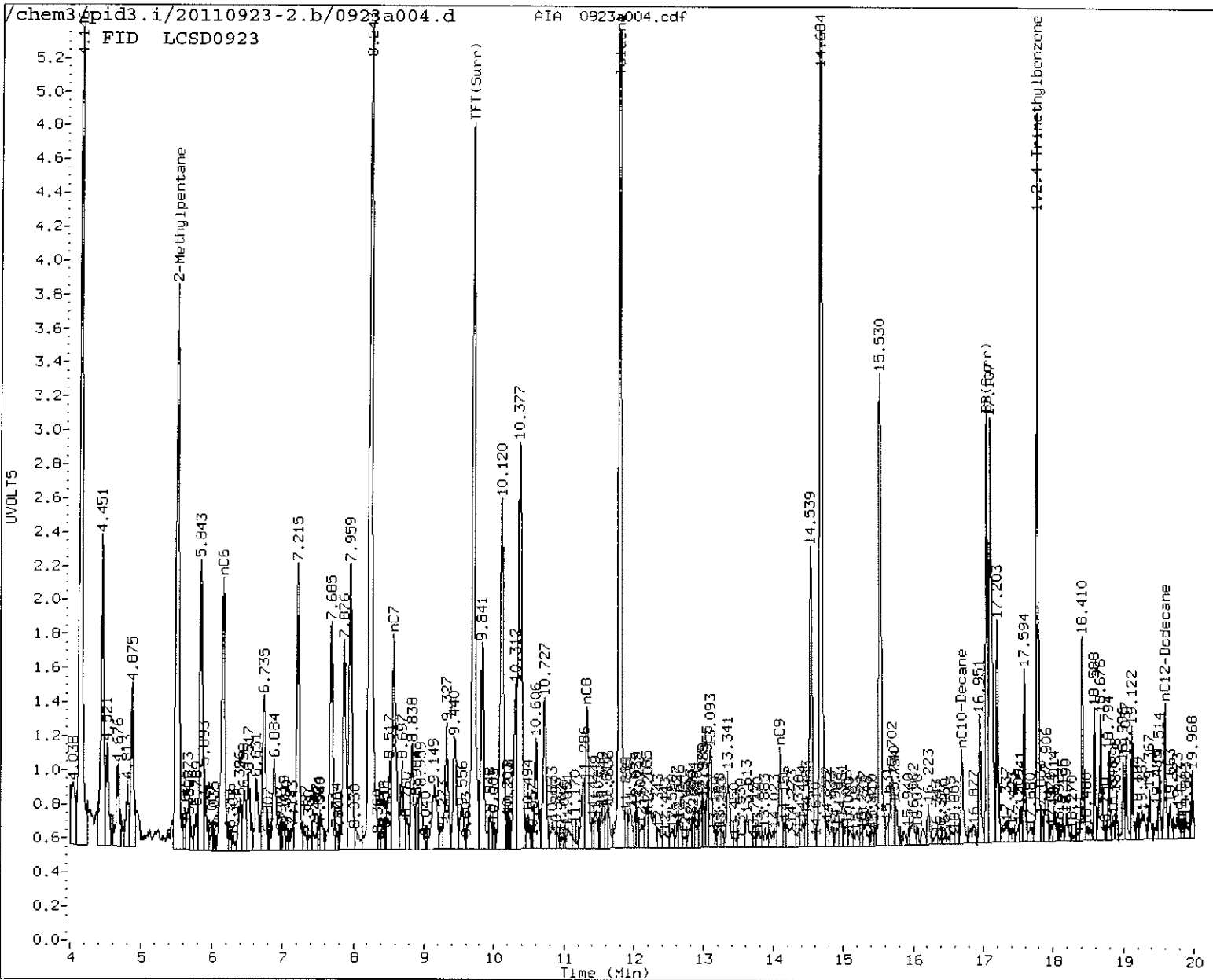
0923 1004 1109 2011

Data File: /chem3/pid3.1/20110923-2.h/0923a004.d/0923a004.cdf
Injection Date: 23-SEP-2011 07:13
Instrument: pid3.1
Client Sample ID:



AIA 0923a004.cdf: 0.000 to 21.917 Min

MH
9/28/11



MANUAL INTEGRATION

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: MH Date: 9/28/14

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

Page 1 of 1

Sample ID: LCS-092611

LAB CONTROL SAMPLE

Lab Sample ID: LCS-092611

LIMS ID: 11-20263

Matrix: Soil

Data Release Authorized: *MMW*

Reported: 09/28/11

QC Report No: TM63-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Event: NA

Date Sampled: NA

Date Received: NA

Date Analyzed LCS: 09/26/11 11:32

LCSD: 09/26/11 12:01

Instrument/Analyst LCS: PID2/MH

LCSD: PID2/MH

Purge Volume: 5.0 mL

Sample Amount LCS: 100 mg-dry-wt

LCSD: 100 mg-dry-wt

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Benzene	201	185	109%	212	185	115%	5.3%
Toluene	1760	1820	96.7%	1850	1820	102%	5.0%
Ethylbenzene	521	535	97.4%	530	535	99.1%	1.7%
m,p-Xylene	1870	2000	93.5%	1980	2000	99.0%	5.7%
o-Xylene	906	905	100%	935	905	103%	3.2%

Reported in µg/kg (ppb)

RPD calculated using sample concentrations per SW846.

BETX Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	93.7%	96.1%
Bromobenzene	93.7%	97.2%

Data File: /chem3/pid2.i/092611-1.b/0926a004.d

Date: 26-SEP-2011 11:32

Client ID:

Sample Info: LCS0926

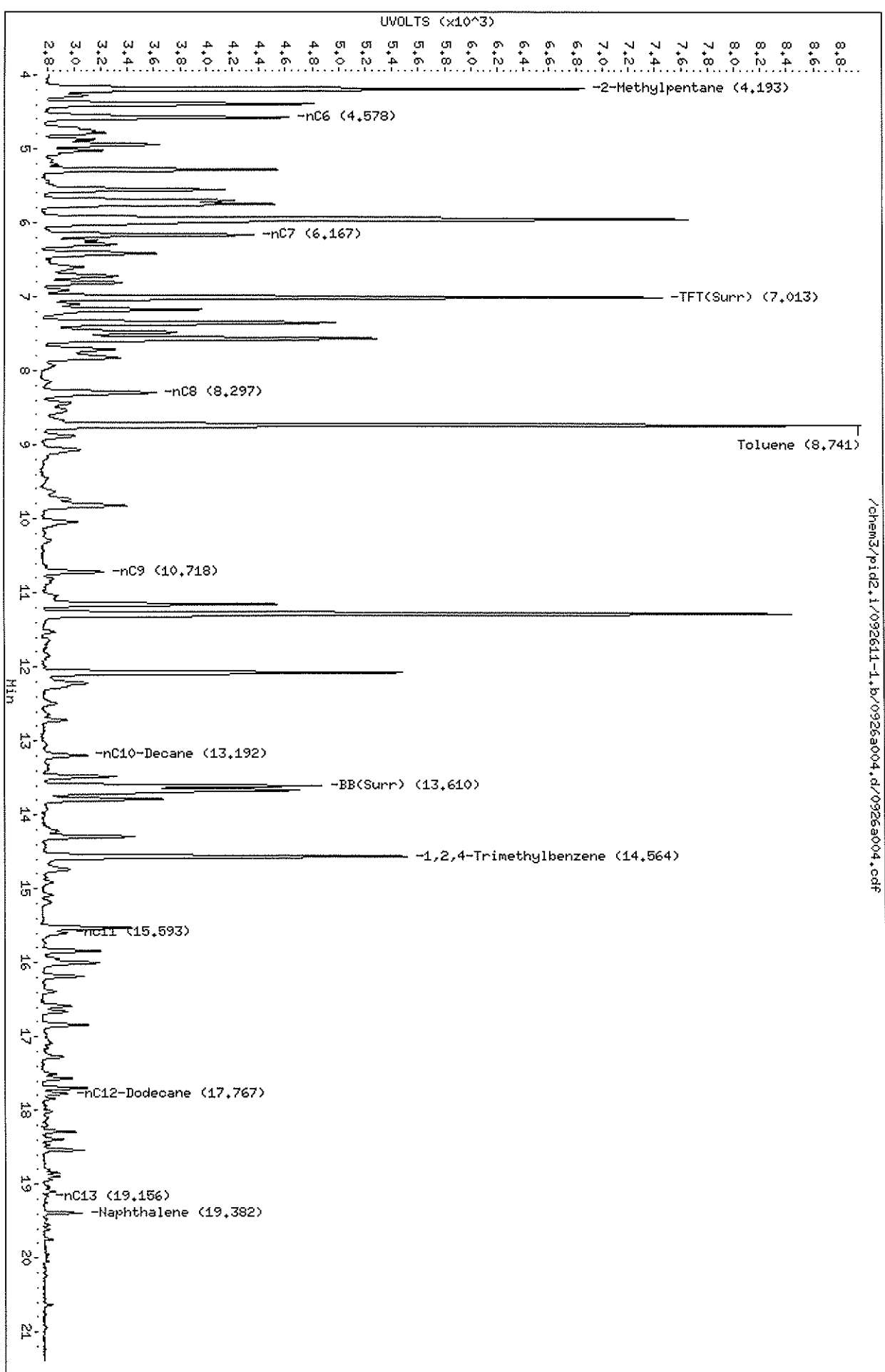
Column phase: RTX 502-2 FID

Instrument: pid2.i

Operator: PC/MS

Column diameter: 0.18

/chem3/pid2.i/092611-1.b/0926a004.d/0926a004.cdf



Data File: /chem2/pid2.i/092611-2.b/0926a004.d

Date: 26-SEP-2011 11:32

Client ID:

Sample Infol: LCS09226

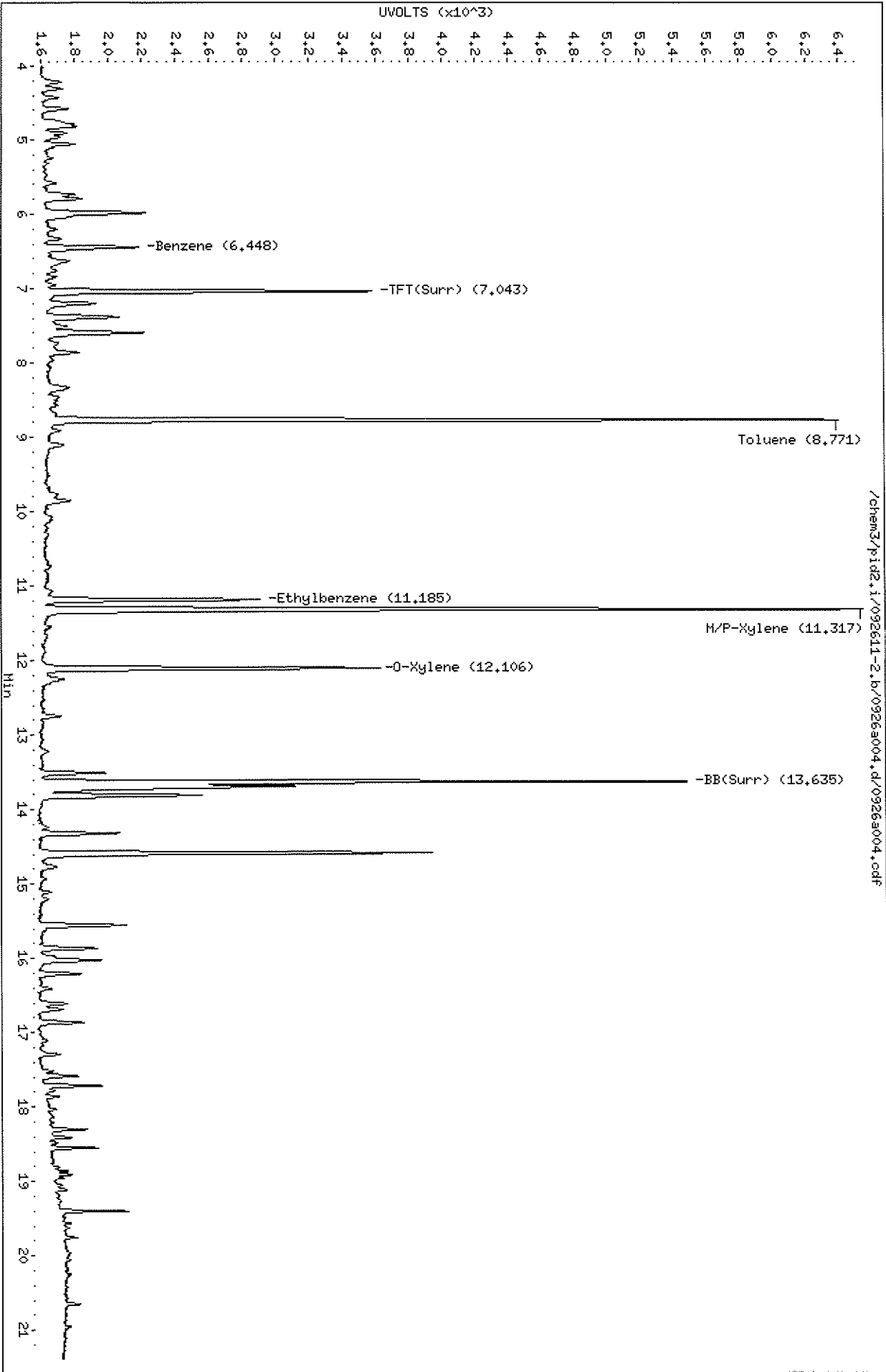
Instrument: pid2.i

Operator: PC/HS

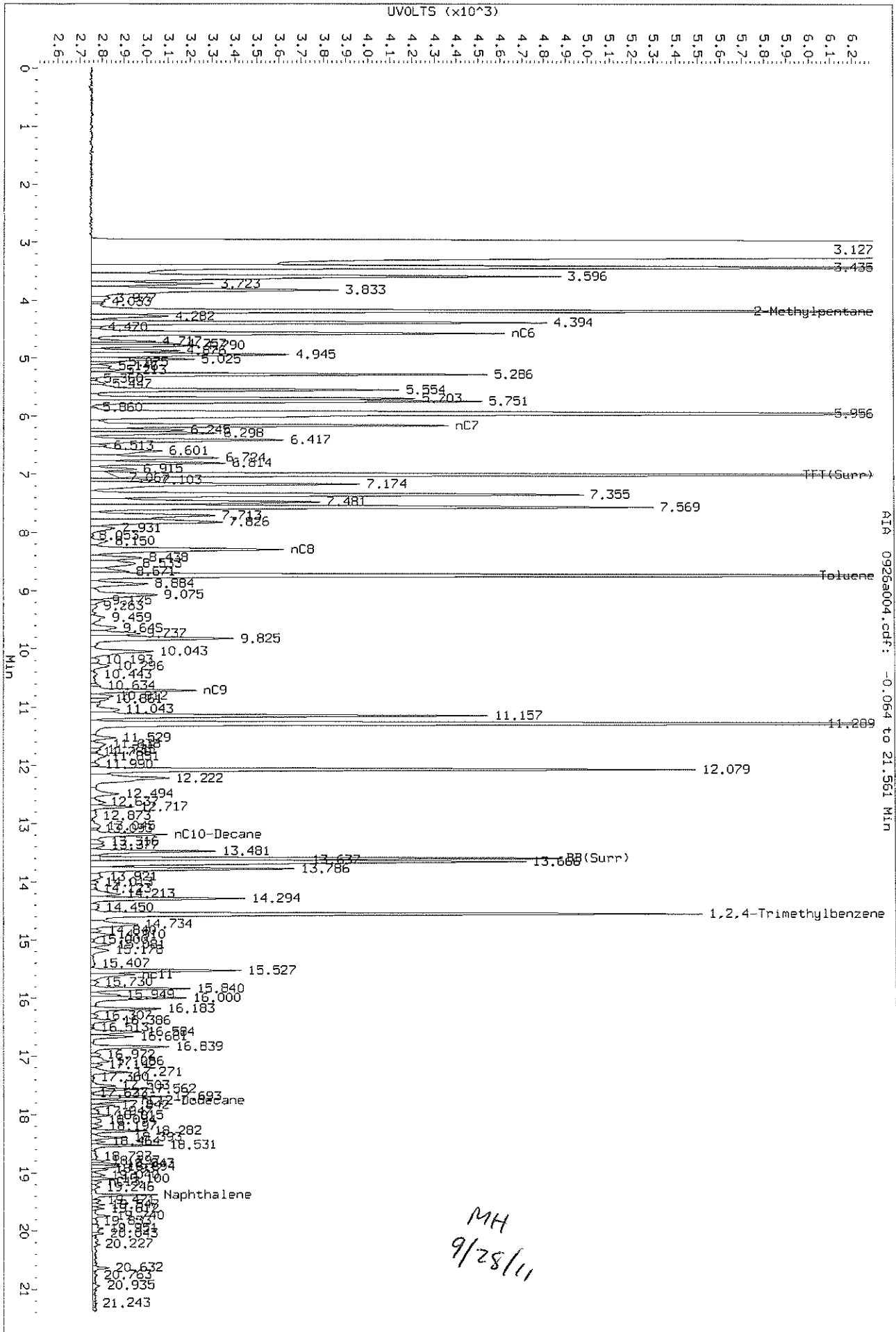
Column diameter: 0.18

Column phase: RTX 502-2 PID

/chem2/pid2.i/092611-2.b/0926a004.d/0926a004.cdf



Data File: /chem3/pid2_1/092611-1.b/0926a004.d/0926a004.cdf
Injection Date: 26-SEP-2011 11:32
Instrument: pid2.1
Client Sample ID:



MH
9/28/11

AIR 0926a004.cdf: -0.064 to 21.561 Min



ORGANICS ANALYSIS DATA SHEET
 TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: LCS-092611
 LAB CONTROL SAMPLE

Lab Sample ID: LCS-092611
 LIMS ID: 11-20263
 Matrix: Soil
 Data Release Authorized: *MMW*
 Reported: 09/28/11

QC Report No: TM63-Kennedy Jenks Consultants
 Project: Ecology Cornet Bay
 Event: NA
 Date Sampled: NA
 Date Received: NA

Date Analyzed LCS: 09/26/11 11:32
 LCSD: 09/26/11 12:01
 Instrument/Analyst LCS: PID2/MH
 LCSD: PID2/MH

Purge Volume: 5.0 mL
 Sample Amount LCS: 100 mg-dry-wt
 LCSD: 100 mg-dry-wt

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Gasoline Range Hydrocarbons	48.7	50.0	97.4%	49.2	50.0	98.4%	1.0%

Reported in mg/kg (ppm)

RPD calculated using sample concentrations per SW846.

TPHG Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	104%	106%
Bromobenzene	101%	103%

Data File: /chem3/pid2.i/092611-1.b/0926a005.d

Date: 26-SEP-2011 12:01

Client ID:

Sample Info: LCSD0926

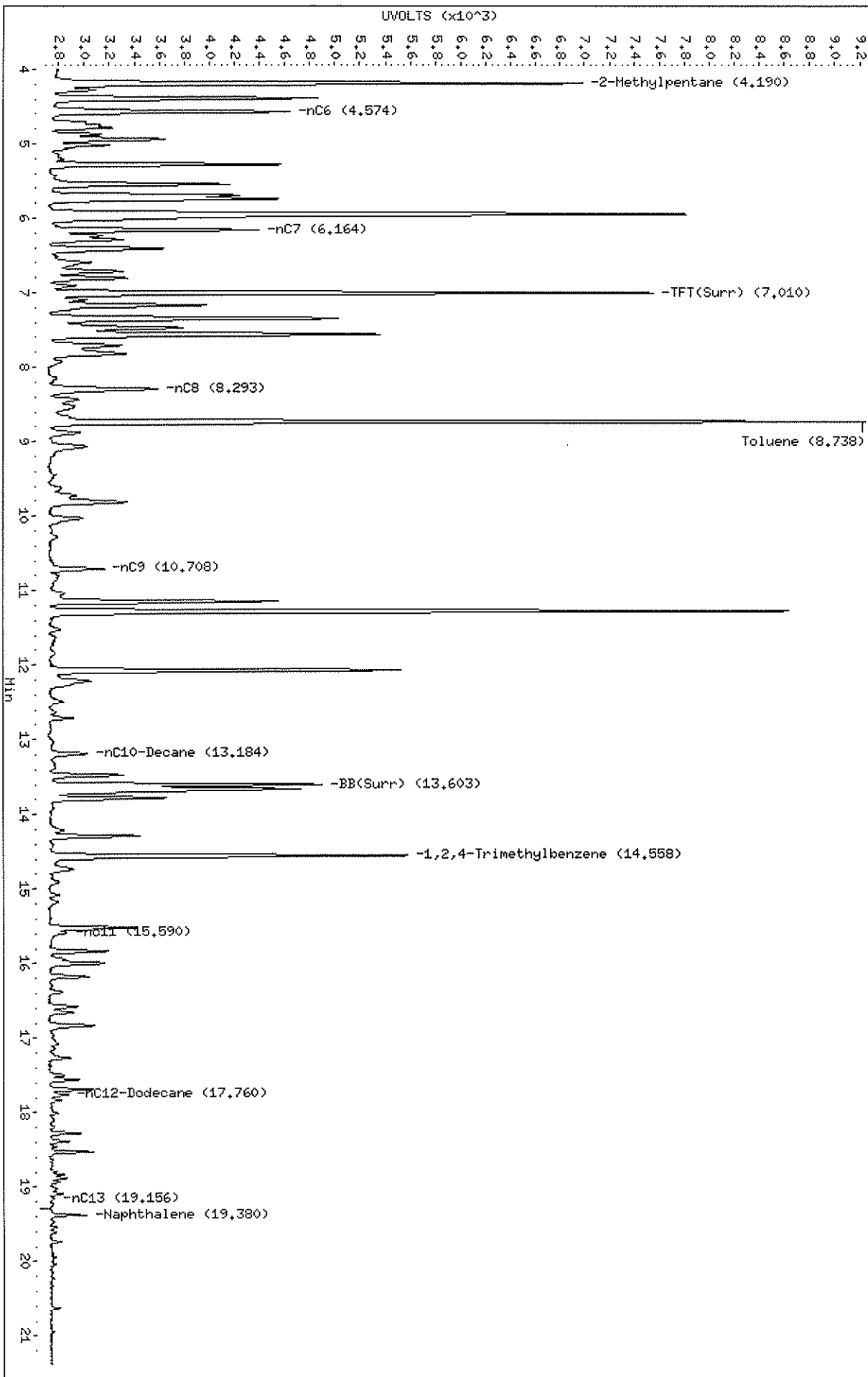
Column phase: RTX 502-2 FID

Instrument: pid2.i

Operator: PC/MS

Column diameter: 0.18

/chem3/pid2.i/092611-1.b/0926a005.d/0926a005.cdf



Data File: /chem3/pid2.i/092611-2.b/0926a005.d

Date: 26-SEP-2011 12:01

Client ID:

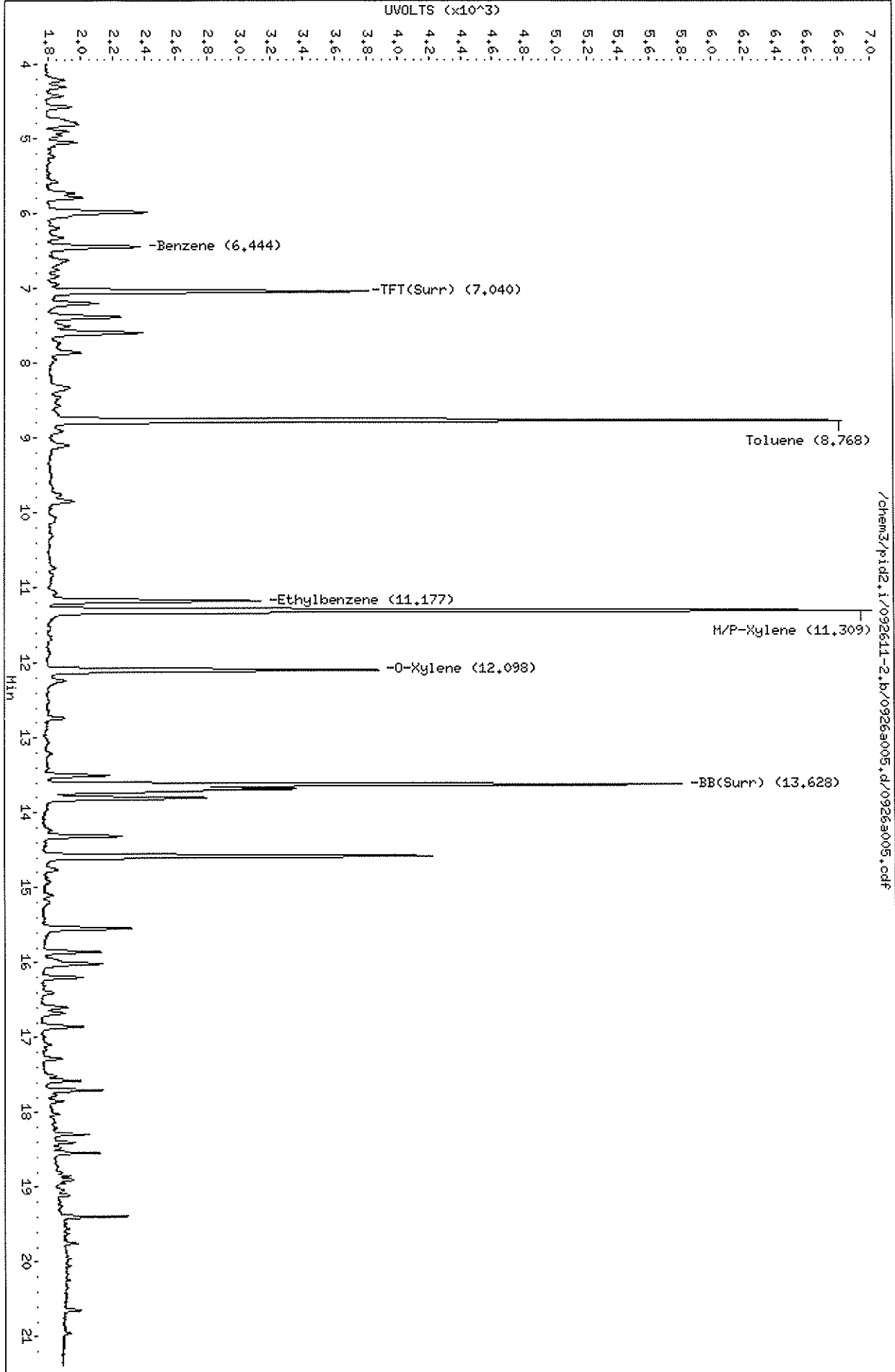
Sample Info: LCSD0926

Column phase: RTX 502-2 PID

Instrument: pid2.i

Operator: PC/MS

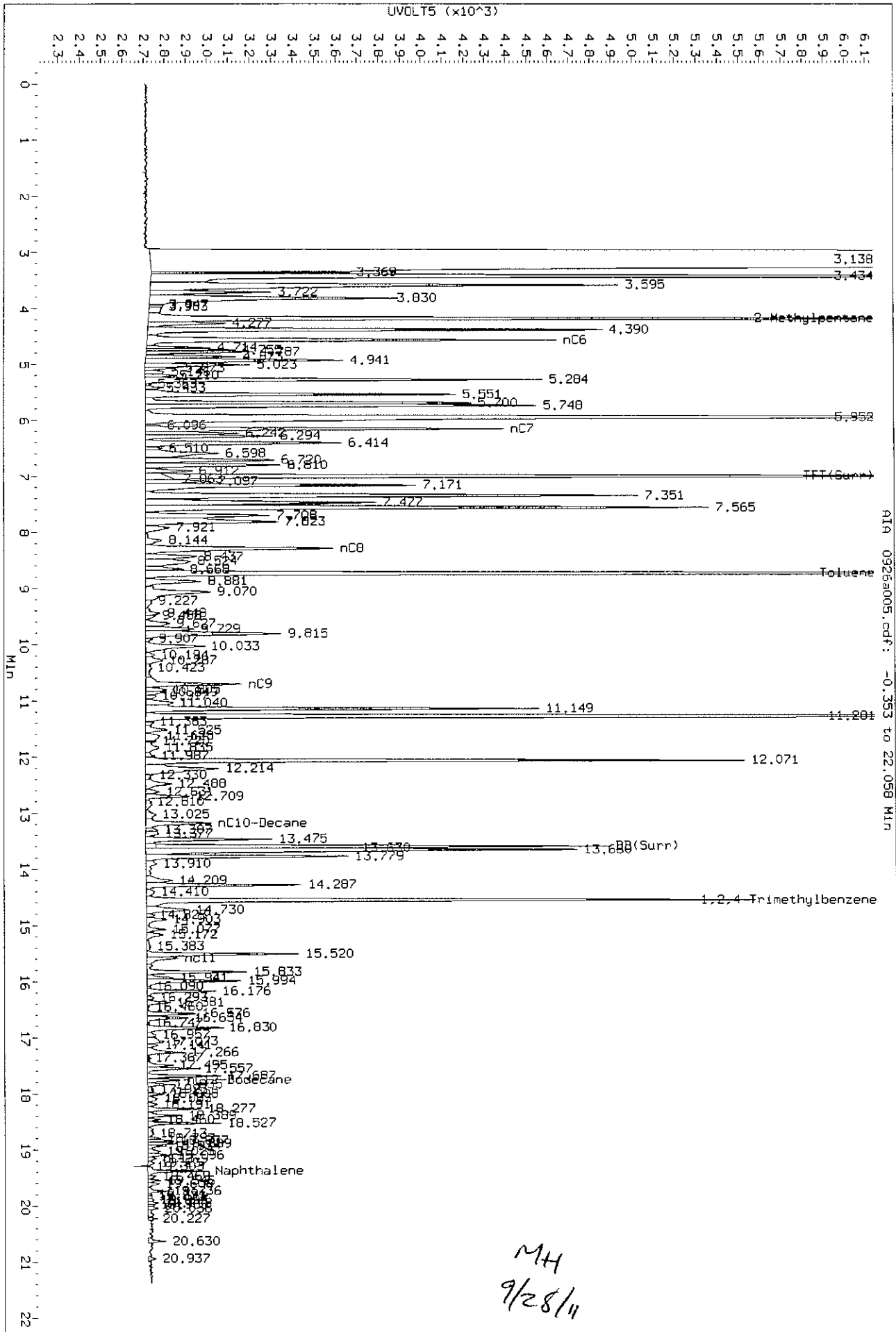
Column diameter: 0.18

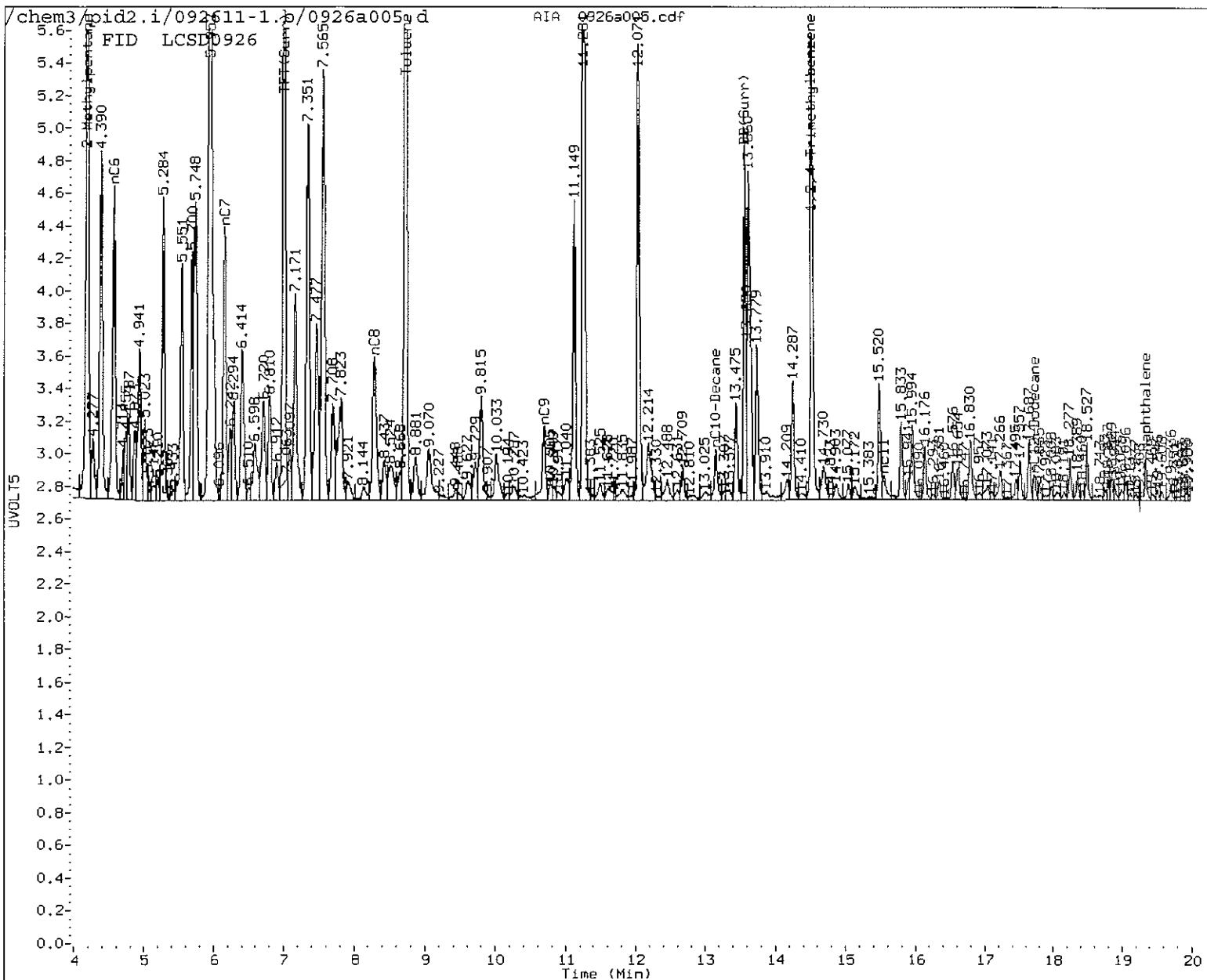


/chem3/pid2.i/092611-2.b/0926a005.d/0926a005.pdf

001001

AIA 0926a005.cdf: -0.353 to 22.059 Min





MANUAL INTEGRATION

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: MH Date: 9/25/14

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS


Page 1 of 1

Sample ID: METHOD BLANK

Lab Sample ID: TM62MB

LIMS ID: 11-20228

Matrix: Soil

Data Release Authorized: 

Reported: 09/28/11

QC Report No: TM62-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Date Sampled: NA

Date Received: NA

Percent Total Solids: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	09/21/11	6010B	09/26/11	7440-38-2	Arsenic	5	5	U
3050B	09/21/11	6010B	09/26/11	7440-39-3	Barium	0.3	0.3	U
3050B	09/21/11	6010B	09/26/11	7440-43-9	Cadmium	0.2	0.2	U
3050B	09/21/11	6010B	09/26/11	7440-47-3	Chromium	0.5	0.5	U
3050B	09/21/11	6010B	09/26/11	7439-92-1	Lead	2	2	U
CLP	09/21/11	7471A	09/22/11	7439-97-6	Mercury	0.02	0.02	U
3050B	09/21/11	6010B	09/26/11	7782-49-2	Selenium	5	5	U
3050B	09/21/11	6010B	09/26/11	7440-22-4	Silver	0.3	0.3	U

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1


Sample ID: KJ-B20-7

SAMPLE

Lab Sample ID: TM63A

LIMS ID: 11-20243

Matrix: Soil

Data Release Authorized: 

Reported: 09/28/11

QC Report No: TM63-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Date Sampled: 09/13/11

Date Received: 09/16/11

Percent Total Solids: 83.5%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	09/21/11	6010B	09/26/11	7440-38-2	Arsenic	6	6	
3050B	09/21/11	6010B	09/26/11	7440-39-3	Barium	0.3	27.2	
3050B	09/21/11	6010B	09/26/11	7440-43-9	Cadmium	0.2	0.2	U
3050B	09/21/11	6010B	09/26/11	7440-47-3	Chromium	0.6	24.8	
3050B	09/21/11	6010B	09/26/11	7439-92-1	Lead	2	2	U
CLP	09/21/11	7471A	09/22/11	7439-97-6	Mercury	0.02	0.02	U
3050B	09/21/11	6010B	09/26/11	7782-49-2	Selenium	6	6	U
3050B	09/21/11	6010B	09/26/11	7440-22-4	Silver	0.3	0.3	U

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1


Sample ID: KJ-B27-12

SAMPLE

Lab Sample ID: TM63I

LIMS ID: 11-20251

Matrix: Soil

Data Release Authorized: 

Reported: 09/28/11

QC Report No: TM63-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Date Sampled: 09/14/11

Date Received: 09/16/11

Percent Total Solids: 81.1%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	09/21/11	6010B	09/26/11	7440-38-2	Arsenic	6	9	
3050B	09/21/11	6010B	09/26/11	7440-39-3	Barium	0.4	45.7	
3050B	09/21/11	6010B	09/26/11	7440-43-9	Cadmium	0.2	0.2	
3050B	09/21/11	6010B	09/26/11	7440-47-3	Chromium	0.6	44.2	
3050B	09/21/11	6010B	09/26/11	7439-92-1	Lead	2	4	
CLP	09/21/11	7471A	09/22/11	7439-97-6	Mercury	0.03	0.03	
3050B	09/21/11	6010B	09/26/11	7782-49-2	Selenium	6	6	U
3050B	09/21/11	6010B	09/26/11	7440-22-4	Silver	0.4	0.4	U

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1


Sample ID: KJ-B30-8

SAMPLE

Lab Sample ID: TM63M

LIMS ID: 11-20255

Matrix: Soil

Data Release Authorized: 

Reported: 09/28/11

QC Report No: TM63-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Date Sampled: 09/14/11

Date Received: 09/16/11

Percent Total Solids: 84.2%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	09/21/11	6010B	09/26/11	7440-38-2	Arsenic	6	9	
3050B	09/21/11	6010B	09/26/11	7440-39-3	Barium	0.4	65.4	
3050B	09/21/11	6010B	09/26/11	7440-43-9	Cadmium	0.2	0.2	U
3050B	09/21/11	6010B	09/26/11	7440-47-3	Chromium	0.6	44.7	
3050B	09/21/11	6010B	09/26/11	7439-92-1	Lead	2	4	
CLP	09/21/11	7471A	09/22/11	7439-97-6	Mercury	0.03	0.03	U
3050B	09/21/11	6010B	09/26/11	7782-49-2	Selenium	6	6	U
3050B	09/21/11	6010B	09/26/11	7440-22-4	Silver	0.4	0.4	U

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS


Page 1 of 1

Sample ID: LAB CONTROL

Lab Sample ID: TM62LCS

LIMS ID: 11-20228

Matrix: Soil

Data Release Authorized: 

Reported: 09/28/11

QC Report No: TM62-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Date Sampled: NA

Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Arsenic	6010B	210	200	105%	
Barium	6010B	205	200	102%	
Cadmium	6010B	52.2	50.0	104%	
Chromium	6010B	51.6	50.0	103%	
Lead	6010B	208	200	104%	
Mercury	7471A	0.54	0.50	108%	
Selenium	6010B	208	200	104%	
Silver	6010B	54.2	50.0	108%	

Reported in mg/kg-dry

N-Control limit not met

NA-Not Applicable, Analyte Not Spiked

Control Limits: 80-120%



Analytical Resources, Incorporated
Analytical Chemists and Consultants

4 October 2011

Dean Malte
Kennedy Jenks Consultants
32001 32nd Ave S., Suite 100
Federal Way, WA 98001

RE: Client Project: Ecology Cornet Bay
ARI Job No: TM91

Dear Dean:

Please find enclosed the original Chain-of-Custody (COC) records and the final results for the samples from the project referenced above. Twenty soil samples and one trip blank were received on September 19, 2011. The samples were analyzed for metals, PAHs, VOAs, BETX/NWTPH-G and Acid/Silica Cleaned NWTPH-Dx as requested.

The percent recovery for the surrogate, d4-1,2-dichloroethane, was high following the initial VOA analysis of sample KJ-B35-4. Since no target compounds associated with this surrogate were detected in the sample, the high bias does not compromise any RL. No corrective actions were taken.

The percent recovery for d4-1,2-dichloroethane was low following the initial VOA analysis of sample KJ-MW6-14. This sample was re-analyzed medium level. The percent recoveries for all surrogates were within established QC limits for the re-analysis. The results for both analyses have been submitted for this sample.

There were no further analytical complications noted.

An electronic copy of this report and all supporting raw data will be kept on file at ARI. Should you have any questions regarding these results, please feel free to call me at any time.

Sincerely,

ANALYTICAL RESOURCES, INC.

Mark D. Harris
Project Manager
206/695-6210
markh@arilabs.com

Enclosures

cc: file TM91

MDH/bc

Chain of Custody Record & Laboratory Analysis Request

Soil

ARI Assigned Number: TM91 Turn-around Requested: Std.
 ARI Client Company: Kennedy/Tenks Phone: 253 835 6400
 Client Contact: Dean Meltz
 Client Project Name: Ecoloby Cornet Bay
 Client Project #: DKM
 Samplers: DKM

Analytical Resources, Incorporated
 Analytical Chemists and Consultants
 4611 South 134th Place, Suite 100
 Tukwila, WA 98168
 206-695-6200 206-695-6201 (fax)



Sample ID	Date	Time	Matrix	No. Containers	Analysis Requested					Notes/Comments
					NMTPH-0X w/silica gel	NMTPH-GX + DTEX	TOX (PCPA & MCHL)S	PAHs	VOCs - MTRC - EOR/EDC	
K5-B33-4	9/15/11	820	Soil	3	X	X				
K5-MW4-13		930		3	X	X				
K5-MW5-12		1100		3	X	X				
K5-MW6-4		1221		3	X	X				
K5-MW6-14		1240		3	X	X				
K5-MW7-5		1410		3	X	X				
K5-B34-5		1550		3	X	X				
K5-B35-4		1620		3	X	X				
K5-B35-8		1630		3	X	X				
K5-B3101		1800		3	X	X				
Comments/Special Instructions	Relinquished by: (Signature) <u>Dean Meltz</u> Printed Name: <u>Dean Meltz</u> Company: <u>Kennedy/Tenks</u> Date & Time: <u>9/19/11 0800</u>				Received by: (Signature) <u>Jesse Ugos</u> Printed Name: <u>Jesse Ugos</u> Company: <u>ARI</u> Date & Time: <u>9/19/11 10:20</u>					

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

Chain of Custody Record & Laboratory Analysis Request

Soil

ARI Assigned Number: TM91 of 2 Page: 2
 Turn-around Requested: STD.
 Date: _____ Ice Present? Y
 No. of Coolers: 1 Cooler Temps: 7.5

Analytical Resources, Incorporated
 Analytical Chemists and Consultants
 4611 South 134th Place, Suite 100
 Tukwila, WA 98168
 206-695-6200 206-695-6201 (fax)



ARI Client Company: Kennedy/Seaks Phone: 253 835 6400
 Client Contact: Dean Malte
 Client Project Name: EcoJoy Cornet Bay
 Client Project #: _____
 Samplers: Drum

Sample ID	Date	Time	Matrix	No. Containers	Analysis Requested						Notes/Comments
					NUPH-DX (w/5/10/15)	NUPH-GX	Total Metals	PAHs	VOCs - PHTC, EDC		
K5-B36-8	9/15/11	1910	Soil	3	X	X	X	X			
K5-B37-9	9/16/11	900	Soil	3	X	X	X	X			
K5-B38-7		1020		8	X	X	X	X			
K5-B38-13		1030		3	X	X	X	X			
K5-B39-8		1100		3	X	X	X	X			
K5-B40-4		1130		3	X	X	X	X			
K5-B41-6		1205		3	X	X	X	X			
K5-B42-8		1230		3	X	X	X	X			
K5-B43-4		1300		3	X	X	X	X			
K5-B44-4		1330		3	X	X	X	X			

Comments/Special Instructions: _____
 Relinquished by: (Signature) Jose Ugos Date & Time: 9/19/11 0800
 Relinquished by: (Signature) _____ Date & Time: _____
 Printed Name: Dean Malte Company: Kennedy/Seaks
 Printed Name: Jose Ugos Company: ART
 Received by: (Signature) _____ Date & Time: 9/19/11 10:20
 Received by: (Signature) _____ Date & Time: _____
 Printed Name: _____ Company: _____

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.



Cooler Receipt Form

ARI Client: Kennel Jenks

Project Name: Ecology Cornal Bay

COC No(s): _____ (NA)

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: TM91

Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler? YES (NO)

Were custody papers included with the cooler? (YES) NO

Were custody papers properly filled out (ink, signed, etc.) (YES) NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry) 7.5

If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: 90941619

Cooler Accepted by: JU Date: 9/19/11 Time: 10:43

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES (NO)

What kind of packing material was used? ... Bubble Wrap (Wet Ice) Gel Packs (Baggies) Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES (NO)

Were all bottles sealed in individual plastic bags? YES (NO)

Did all bottles arrive in good condition (unbroken)? (YES) NO

Were all bottle labels complete and legible? (YES) NO

Did the number of containers listed on COC match with the number of containers received? (YES) NO

Did all bottle labels and tags agree with custody papers? YES (NO)

Were all bottles used correct for the requested analyses? (YES) NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)... (NA) YES NO

Were all VOC vials free of air bubbles? NA YES (NO)

Was sufficient amount of sample sent in each bottle? (YES) NO

Date VOC Trip Blank was made at ARI: NA 9/8/11

Was Sample Split by ARI: (NA) YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: JM Date: 9/19/11 Time: 1232

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC
<u>KJ-B38-12</u>	<u>KJ-B38-13</u>		

Additional Notes, Discrepancies, & Resolutions:

Trip Blank - sm in 3 of 3

By: JM Date: 9/19/11

			Small → "sm"
			Peabubbles → "pb"
			Large → "lg"
			Headspace → "hs"



Cooler Temperature Compliance Form

TMA1

Cooler#:	Temperature(°C):	
Sample ID	Bottle Count	Bottle Type
All samples associated with this job are outside temperature compliance.		

Cooler#:	Temperature(°C):	
Sample ID	Bottle Count	Bottle Type

Cooler#:	Temperature(°C):	
Sample ID	Bottle Count	Bottle Type

Cooler#:	Temperature(°C):	
Sample ID	Bottle Count	Bottle Type

Completed by: JM Date: 9/19/11 Time: 1233

Sample ID Cross Reference Report



ARI Job No: TM91
Client: Kennedy Jenks Consultants
Project Event: N/A
Project Name: Ecology Cornet Bay

Sample ID	ARI Lab ID	ARI LIMS ID	Matrix	Sample Date/Time	VTSR
1. KJ-B33-4	TM91A	11-20411	Soil	09/15/11 08:20	09/19/11 10:20
2. KJ-MW4-13	TM91B	11-20412	Soil	09/15/11 09:30	09/19/11 10:20
3. KJ-MW5-12	TM91C	11-20413	Soil	09/15/11 11:00	09/19/11 10:20
4. KJ-MW6-4	TM91D	11-20414	Soil	09/15/11 12:20	09/19/11 10:20
5. KJ-MW6-14	TM91E	11-20415	Soil	09/15/11 12:40	09/19/11 10:20
6. KJ-MW7-5	TM91F	11-20416	Soil	09/15/11 14:10	09/19/11 10:20
7. KJ-B34-B	TM91G	11-20417	Soil	09/15/11 15:50	09/19/11 10:20
8. KJ-B35-4	TM91H	11-20418	Soil	09/15/11 16:20	09/19/11 10:20
9. KJ-B35-8	TM91I	11-20419	Soil	09/15/11 16:30	09/19/11 10:20
10. KJ-B101	TM91J	11-20420	Soil	09/15/11 18:00	09/19/11 10:20
11. KJ-B36-8	TM91K	11-20421	Soil	09/15/11 17:10	09/19/11 10:20
12. KJ-B37-9	TM91L	11-20422	Soil	09/16/11 09:00	09/19/11 10:20
13. KJ-B38-7	TM91M	11-20423	Soil	09/16/11 10:20	09/19/11 10:20
14. KJ-B38-13	TM91N	11-20424	Soil	09/16/11 10:30	09/19/11 10:20
15. KJ-B39-8	TM91O	11-20425	Soil	09/16/11 11:00	09/19/11 10:20
16. KJ-B40-4	TM91P	11-20426	Soil	09/16/11 11:30	09/19/11 10:20
17. KJ-B41-6	TM91Q	11-20427	Soil	09/16/11 12:05	09/19/11 10:20
18. KJ-B42-8	TM91R	11-20428	Soil	09/16/11 12:30	09/19/11 10:20
19. KJ-B43-4	TM91S	11-20429	Soil	09/16/11 13:00	09/19/11 10:20
20. KJ-B44-4	TM91T	11-20430	Soil	09/16/11 13:30	09/19/11 10:20
21. Trip Blank	TM91U	11-20431	Water	09/15/11	09/19/11 10:20

Printed 09/21/11



Data Reporting Qualifiers

Effective 2/14/2011

Inorganic Data

- U Indicates that the target analyte was not detected at the reported concentration
- * Duplicate RPD is not within established control limits
- B Reported value is less than the CRDL but \geq the Reporting Limit
- N Matrix Spike recovery not within established control limits
- NA Not Applicable, analyte not spiked
- H The natural concentration of the spiked element is so much greater than the concentration spiked that an accurate determination of spike recovery is not possible
- L Analyte concentration is ≤ 5 times the Reporting Limit and the replicate control limit defaults to ± 1 RL instead of the normal 20% RPD

Organic Data

- U Indicates that the target analyte was not detected at the reported concentration
- * Flagged value is not within established control limits
- B Analyte detected in an associated Method Blank at a concentration greater than one-half of ARI's Reporting Limit or 5% of the regulatory limit or 5% of the analyte concentration in the sample.
- J Estimated concentration when the value is less than ARI's established reporting limits
- D The spiked compound was not detected due to sample extract dilution
- E Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.
- Q Indicates a detected analyte with an initial or continuing calibration that does not meet established acceptance criteria ($< 20\%$ RSD, $< 20\%$ Drift or minimum RRF).



- S Indicates an analyte response that has saturated the detector. The calculated concentration is not valid; a dilution is required to obtain valid quantification of the analyte
- NA The flagged analyte was not analyzed for
- NR Spiked compound recovery is not reported due to chromatographic interference
- NS The flagged analyte was not spiked into the sample
- M Estimated value for an analyte detected and confirmed by an analyst but with low spectral match parameters. This flag is used only for GC-MS analyses
- M2 The sample contains PCB congeners that do not match any standard Aroclor pattern. The PCBs are identified and quantified as the Aroclor whose pattern most closely matches that of the sample. The reported value is an estimate.
- N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification"
- Y The analyte is not detected at or above the reported concentration. The reporting limit is raised due to chromatographic interference. The Y flag is equivalent to the U flag with a raised reporting limit.
- EMPC Estimated Maximum Possible Concentration (EMPC) defined in EPA Statement of Work DLM02.2 as a value "calculated for 2,3,7,8-substituted isomers for which the quantitation and /or confirmation ion(s) has signal to noise in excess of 2.5, but does not meet identification criteria"
(Dioxin/Furan analysis only)
- C The analyte was positively identified on only one of two chromatographic columns. Chromatographic interference prevented a positive identification on the second column
- P The analyte was detected on both chromatographic columns but the quantified values differ by $\geq 40\%$ RPD with no obvious chromatographic interference
- X Analyte signal includes interference from polychlorinated diphenyl ethers.
(Dioxin/Furan analysis only)
- Z Analyte signal includes interference from the sample matrix or perfluorokerosene ions. **(Dioxin/Furan analysis only)**



Geotechnical Data

- A The total of all fines fractions. This flag is used to report total fines when only sieve analysis is requested and balances total grain size with sample weight.
- F Samples were frozen prior to particle size determination
- SM Sample matrix was not appropriate for the requested analysis. This normally refers to samples contaminated with an organic product that interferes with the sieving process and/or moisture content, porosity and saturation calculations
- SS Sample did not contain the proportion of "fines" required to perform the pipette portion of the grain size analysis
- W Weight of sample in some pipette aliquots was below the level required for accurate weighting

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Sample ID: MB-092611

Page 1 of 1

METHOD BLANK


Lab Sample ID: MB-092611

QC Report No: TM91-Kennedy Jenks Consultants

LIMS ID: 11-20418

Project: Ecology Cornet Bay

Matrix: Soil

Data Release Authorized: 

Date Sampled: NA

Reported: 10/03/11

Date Received: NA

Instrument/Analyst: FINN5/PAB

Sample Amount: 100 mg-dry-wt

Date Analyzed: 09/26/11 11:26

Purge Volume: 5.0 mL

Moisture: NA

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	50	< 50	U
106-93-4	Ethylene Dibromide	50	< 50	U
1634-04-4	Methyl tert-Butyl Ether	50	< 50	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	88.2%
Bromofluorobenzene	89.6%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Sample ID: MB-092911

Page 1 of 1

METHOD BLANK


Lab Sample ID: MB-092911

QC Report No: TM91-Kennedy Jenks Consultants

LIMS ID: 11-20423

Project: Ecology Cornet Bay

Matrix: Soil

Data Release Authorized: 

Date Sampled: NA

Reported: 10/03/11

Date Received: NA

Instrument/Analyst: NT9/PAB

Sample Amount: 5.00 g-dry-wt

Date Analyzed: 09/29/11 08:52

Purge Volume: 5.0 mL

Moisture: NA

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	1.0	< 1.0	U
106-93-4	Ethylene Dibromide	1.0	< 1.0	U
1634-04-4	Methyl tert-Butyl Ether	1.0	< 1.0	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	103%
Bromofluorobenzene	98.2%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 1

Sample ID: MB-093011
METHOD BLANK


Lab Sample ID: MB-093011

QC Report No: TM91-Kennedy Jenks Consultants

LIMS ID: 11-20415

Project: Ecology Cornet Bay

Matrix: Soil

Data Release Authorized: 

Date Sampled: NA

Reported: 10/03/11

Date Received: NA

Instrument/Analyst: NT9/PAB

Sample Amount: 5.00 g-dry-wt

Date Analyzed: 09/30/11 15:27

Purge Volume: 5.0 mL

Moisture: NA

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	1.0	< 1.0	U
106-93-4	Ethylene Dibromide	1.0	< 1.0	U
1634-04-4	Methyl tert-Butyl Ether	1.0	< 1.0	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	113%
Bromofluorobenzene	98.8%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 1

Sample ID: KJ-MW6-14
SAMPLE

Lab Sample ID: TM91E

QC Report No: TM91-Kennedy Jenks Consultants

LIMS ID: 11-20415

Project: Ecology Cornet Bay

Matrix: Soil

Data Release Authorized: *[Signature]*

Date Sampled: 09/15/11

Reported: 10/03/11

Date Received: 09/19/11

Instrument/Analyst: FINN5/PAB

Sample Amount: 91.8 mg-dry-wt

Date Analyzed: 09/26/11 16:20

Purge Volume: 5.0 mL

Moisture: 17.3%

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	54	< 54	U
106-93-4	Ethylene Dibromide	54	< 54	U
1634-04-4	Methyl tert-Butyl Ether	54	< 54	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	52.0%
Bromofluorobenzene	85.0%

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Sample ID: KJ-MW6-14

Page 1 of 1

REANALYSIS

Lab Sample ID: TM91E

QC Report No: TM91-Kennedy Jenks Consultants

LIMS ID: 11-20415

Project: Ecology Cornet Bay

Matrix: Soil

Data Release Authorized: *[Signature]*

Date Sampled: 09/15/11

Reported: 10/03/11

Date Received: 09/19/11

Instrument/Analyst: NT9/PAB

Sample Amount: 4.69 g-dry-wt

Date Analyzed: 09/30/11 17:27

Purge Volume: 5.0 mL

Moisture: 17.3%

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	1.1	< 1.1	U
106-93-4	Ethylene Dibromide	1.1	< 1.1	U
1634-04-4	Methyl tert-Butyl Ether	1.1	< 1.1	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	122%
Bromofluorobenzene	100%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Sample ID: KJ-B35-4

Page 1 of 1

SAMPLE

Lab Sample ID: TM91H

QC Report No: TM91-Kennedy Jenks Consultants

LIMS ID: 11-20418

Project: Ecology Cornet Bay

Matrix: Soil

Data Release Authorized: *AA*

Date Sampled: 09/15/11

Reported: 10/03/11

Date Received: 09/19/11

Instrument/Analyst: NT9/PAB

Sample Amount: 80.3 mg-dry-wt

Date Analyzed: 09/29/11 11:29

Purge Volume: 5.0 mL

Moisture: 16.5%

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	62	< 62	U
106-93-4	Ethylene Dibromide	62	< 62	U
1634-04-4	Methyl tert-Butyl Ether	62	< 62	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	120%
Bromofluorobenzene	105%

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 1

Sample ID: KJ-B38-7
SAMPLE

Lab Sample ID: TM91M

QC Report No: TM91-Kennedy Jenks Consultants

LIMS ID: 11-20423

Project: Ecology Cornet Bay

Matrix: Soil

Data Release Authorized: *[Signature]*

Date Sampled: 09/16/11

Reported: 10/03/11

Date Received: 09/19/11

Instrument/Analyst: NT9/PAB

Sample Amount: 60.8 mg-dry-wt

Date Analyzed: 09/29/11 11:50

Purge Volume: 5.0 mL

Moisture: 21.9%

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	82	< 82	U
106-93-4	Ethylene Dibromide	82	< 82	U
1634-04-4	Methyl tert-Butyl Ether	82	< 82	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	105%
Bromofluorobenzene	100%

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Sample ID: Trip Blank
SAMPLE

Page 1 of 1


Lab Sample ID: TM91U

QC Report No: TM91-Kennedy Jenks Consultants

LIMS ID: 11-20431

Project: Ecology Cornet Bay

Matrix: Water

Data Release Authorized: 

Date Sampled: 09/15/11

Reported: 10/03/11

Date Received: 09/19/11

Instrument/Analyst: NT9/PAB

Sample Amount: 5.00 mL

Date Analyzed: 09/30/11 17:48

Purge Volume: 5.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	1.0	< 1.0	U
106-93-4	Ethylene Dibromide	1.0	< 1.0	U
1634-04-4	Methyl tert-Butyl Ether	1.0	< 1.0	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	110%
Bromofluorobenzene	98.4%

VOA SURROGATE RECOVERY SUMMARY



Matrix: Soil

QC Report No: TM91-Kennedy Jenks Consultants
Project: Ecology Cornet Bay

ARI ID	Client ID	Level	DCE	TOL	BFB	DCB	TOT OUT
MB-093011	Method Blank	Low	113%	NA	98.8%	NA	0
LCS-093011	Lab Control	Low	112%	NA	101%	NA	0
LCSD-093011	Lab Control Dup	Low	112%	NA	101%	NA	0
TM91E	KJ-MW6-14	Med	52.0%*	NA	85.0%	NA	1
TM91ERE	KJ-MW6-14	Low	122%	NA	100%	NA	0
MB-092611	Method Blank	Med	88.2%	NA	89.6%	NA	0
LCS-092611	Lab Control	Med	82.5%	NA	91.1%	NA	0
LCSD-092611	Lab Control Dup	Med	80.3%	NA	91.4%	NA	0
TM91H	KJ-B35-4	Med	120%*	NA	105%	NA	1
MB-092911	Method Blank	Low	103%	NA	98.2%	NA	0
LCS-092911	Lab Control	Low	101%	NA	100%	NA	0
LCSD-092911	Lab Control Dup	Low	102%	NA	100%	NA	0
TM91M	KJ-B38-7	Med	105%	NA	100%	NA	0

LCS/MB LIMITS

QC LIMITS

SW8260C	LCS/MB LIMITS		QC LIMITS	
	Low	Med	Low	Med
(DCE) = d4-1,2-Dichloroethane	79-121	76-120	75-152	69-120
(TOL) = d8-Toluene	80-120	80-120	82-115	80-120
(BFB) = Bromofluorobenzene	80-120	80-120	64-120	76-128
(DCB) = d4-1,2-Dichlorobenzene	80-120	80-120	80-120	80-120

Log Number Range: 11-20415 to 11-20423

VOA SURROGATE RECOVERY SUMMARY



Matrix: Water

QC Report No: TM91-Kennedy Jenks Consultants
 Project: Ecology Cornet Bay

ARI ID	Client ID	PV	DCE	TOL	BFB	DCB	TOT OUT
TM91U	Trip Blank	5	110%	NA	98.4%	NA	0

LCS/MB LIMITS

QC LIMITS

SW8260C

(DCE) = d4-1,2-Dichloroethane
 (TOL) = d8-Toluene
 (BFB) = Bromofluorobenzene
 (DCB) = d4-1,2-Dichlorobenzene

80-122
 80-120
 80-120
 80-120

80-125
 80-120
 80-120
 80-120

Prep Method: SW5030B
 Log Number Range: 11-20431 to 11-20431

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 1

Sample ID: LCS-092611
LAB CONTROL SAMPLE

Lab Sample ID: LCS-092611
LIMS ID: 11-20418
Matrix: Soil
Data Release Authorized: *[Signature]*
Reported: 10/03/11

QC Report No: TM91-Kennedy Jenks Consultants
Project: Ecology Cornet Bay

Date Sampled: NA
Date Received: NA

Instrument/Analyst LCS: FINN5/PAB
LCSD: FINN5/PAB
Date Analyzed LCS: 09/26/11 10:16
LCSD: 09/26/11 10:54

Sample Amount LCS: 100 mg-dry-wt
LCSD: 100 mg-dry-wt
Purge Volume LCS: 5.0 mL
LCSD: 5.0 mL
Moisture: NA

Analyte	LCS	Spike	LCS	LCS	Spike	LCSD	RPD
		Added-LCS	Recovery		Added-LCSD	Recovery	
1,2-Dichloroethane	1880 Q	2500	75.2%	1950 Q	2500	78.0%	3.7%
Ethylene Dibromide	2470	2500	98.8%	2550	2500	102%	3.2%
Methyl tert-Butyl Ether	2360	2500	94.4%	2420	2500	96.8%	2.5%

Reported in µg/kg (ppb)

RPD calculated using sample concentrations per SW846.

Volatile Surrogate Recovery

	LCS	LCSD
d4-1,2-Dichloroethane	82.5%	80.3%
Bromofluorobenzene	91.1%	91.4%

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: finn5.i Injection Date: 26-SEP-2011 08:32
 Lab File ID: 0500926.d Init. Cal. Date(s): 17-AUG-2011 17-AUG-2011
 Analysis Type: SOIL Init. Cal. Times: 18:42 22:44
 Lab Sample ID: CC0926 Quant Type: ISTD
 Method: /chem1/finn5.i/26SEP11.b/s8260b.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
1 Dichlorodifluoromethane	0.57813	0.41298	0.41298	0.010	-28.56648	20.00000	Averaged <-
2 Chloromethane	0.99671	1.00026	1.00026	0.100	0.35574	20.00000	Averaged
3 Vinyl Chloride	1.01840	0.83679	0.83679	0.010	-17.83210	20.00000	Averaged
4 Bromomethane	0.43931	0.44237	0.44237	0.010	0.69694	20.00000	Averaged
5 Chloroethane	0.46148	0.53766	0.53766	0.010	16.50964	20.00000	Averaged
6 Trichlorofluoromethane	0.91046	0.91527	0.91527	0.010	0.52807	20.00000	Averaged
7 Acrolein	0.09121	0.09305	0.09305	0.010	2.02556	20.00000	Averaged
8 1,1,2-Trichloro-1,2,2-Trifluoroeth	0.51618	0.62128	0.62128	0.010	20.36293	20.00000	Averaged <-
9 Acetone	0.21280	0.16593	0.16593	0.010	-22.02194	20.00000	Averaged <-
10 1,1-Dichloroethene	0.46088	0.49637	0.49637	0.010	7.70040	20.00000	Averaged
11 Bromoethane	0.36238	0.40770	0.40770	0.010	12.50389	20.00000	Averaged
12 Iodomethane	0.72189	0.83451	0.83451	0.010	15.60066	20.00000	Averaged
13 Methylene Chloride	55.44298	50.00000	0.59776	0.010	10.88597	20.00000	Linear
14 Acrylonitrile	0.19367	0.18960	0.18960	0.010	-2.10339	20.00000	Averaged
16 Methyl tert-Butyl Ether	1.20918	1.09942	1.09942	0.010	-9.07698	20.00000	Averaged
15 Carbon Disulfide	1.80536	2.03366	2.03366	0.010	12.64604	20.00000	Averaged
17 Trans-1,2-Dichloroethene	0.50595	0.55864	0.55864	0.010	10.41336	20.00000	Averaged
18 Vinyl Acetate	0.90440	0.88435	0.88435	0.010	-2.21651	20.00000	Averaged
19 1,1-Dichloroethane	1.12471	1.18926	1.18926	0.100	5.73884	20.00000	Averaged
20 2-Butanone	0.30386	0.26618	0.26618	0.010	-12.40044	20.00000	Averaged
21 2,2-Dichloropropane	0.73083	0.70414	0.70414	0.010	-3.65252	20.00000	Averaged
22 Cis-1,2-Dichloroethene	0.52766	0.63102	0.63102	0.010	19.58942	20.00000	Averaged
24 Chloroform	1.00012	1.02086	1.02086	0.010	2.07401	20.00000	Averaged
26 Bromochloromethane	0.26181	0.30137	0.30137	0.010	15.11009	20.00000	Averaged
\$ 25 Dibromofluoromethane	0.53840	0.52979	0.52979	0.010	-1.59766	20.00000	Averaged
27 1,1,1-Trichloroethane	0.80658	0.74826	0.74826	0.010	-7.23008	20.00000	Averaged
29 1,1-Dichloropropene	0.60402	0.55822	0.55822	0.010	-7.58157	20.00000	Averaged
30 Carbon Tetrachloride	0.58452	0.48168	0.48168	0.010	-17.59430	20.00000	Averaged
\$ 31 d4-1,2-Dichloroethane	0.66927	0.51509	0.51509	0.010	-23.03777	20.00000	Averaged <-
32 1,2-Dichloroethane	0.61583	0.45793	0.45793	0.010	-25.63970	20.00000	Averaged <-
33 Benzene	1.47568	1.50339	1.50339	0.010	1.87792	20.00000	Averaged
35 Trichloroethene	0.45637	0.43980	0.43980	0.010	-3.63060	20.00000	Averaged
36 1,2-Dichloropropane	0.51519	0.53010	0.53010	0.010	2.89514	20.00000	Averaged
37 Bromodichloromethane	0.56637	0.51232	0.51232	0.010	-9.54340	20.00000	Averaged
39 Dibromomethane	0.26671	0.25156	0.25156	0.010	-5.68022	20.00000	Averaged

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: finn5.i Injection Date: 26-SEP-2011 08:32
 Lab File ID: 0500926.d Init. Cal. Date(s): 17-AUG-2011 17-AUG-2011
 Analysis Type: SOIL Init. Cal. Times: 18:42 22:44
 Lab Sample ID: CC0926 Quant Type: ISTD
 Method: /chem1/finn5.i/26SEP11.b/s8260b.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
40 2-Chloroethyl Vinyl Ether	0.08792	0.18386	0.18386	0.001	109	20.00000	Averaged
41 4-Methyl-2-Pentanone	0.13593	0.11733	0.11733	0.010	-13.68649	20.00000	Averaged
42 Cis 1,3-dichloropropene	0.60721	0.61705	0.61705	0.010	1.62071	20.00000	Averaged
43 d8-Toluene	1.19857	1.19763	1.19763	0.010	-0.07835	20.00000	Averaged
44 Toluene	0.83609	0.85789	0.85789	0.010	2.60756	20.00000	Averaged
45 Trans 1,3-Dichloropropene	0.50989	0.48242	0.48242	0.010	-5.38804	20.00000	Averaged
46 2-Hexanone	0.39138	0.32178	0.32178	0.010	-17.78529	20.00000	Averaged
47 1,1,2-Trichloroethane	0.29492	0.28629	0.28629	0.010	-2.92655	20.00000	Averaged
48 1,3-Dichloropropane	0.60950	0.59692	0.59692	0.010	-2.06333	20.00000	Averaged
49 Tetrachloroethane	0.51481	0.51925	0.51925	0.010	0.86249	20.00000	Averaged
50 Chlorodibromomethane	0.46700	0.45810	0.45810	0.010	-1.90642	20.00000	Averaged
51 1,2-Dibromoethane	0.33430	0.32519	0.32519	0.010	-2.72720	20.00000	Averaged
53 Chlorobenzene	1.00578	1.07785	1.07785	0.300	7.16587	20.00000	Averaged
54 Ethyl Benzene	1.75218	1.80263	1.80263	0.010	2.87931	20.00000	Averaged
55 1,1,1,2-Tetrachloroethane	0.40385	0.38826	0.38826	0.010	-3.86087	20.00000	Averaged
56 m,p-xylene	0.63169	0.65548	0.65548	0.010	3.76545	20.00000	Averaged
57 o-Xylene	0.62985	0.66460	0.66460	0.010	5.51748	20.00000	Averaged
58 Styrene	1.02321	1.06946	1.06946	0.010	4.52001	20.00000	Averaged
59 Isopropyl Benzene	3.31387	3.38042	3.38042	0.010	2.00841	20.00000	Averaged
60 Bromoform	0.65758	0.61521	0.61521	0.100	-6.44360	20.00000	Averaged
61 1,1,2,2-Tetrachloroethane	0.92076	0.88627	0.88627	0.300	-3.74524	20.00000	Averaged
62 4-Bromofluorobenzene	0.55057	0.50405	0.50405	0.010	-8.44888	20.00000	Averaged
63 1,2,3-Trichloropropane	0.19543	0.16577	0.16577	0.010	-15.17827	20.00000	Averaged
65 Trans-1,4-Dichloro 2-Butene	0.32872	0.26824	0.26824	0.010	-18.39643	20.00000	Averaged
66 N-Propyl Benzene	3.82381	4.06001	4.06001	0.010	6.17703	20.00000	Averaged
67 Bromobenzene	0.95577	0.95320	0.95320	0.010	-0.26923	20.00000	Averaged
68 1,3,5-Trimethyl Benzene	2.72130	2.70942	2.70942	0.010	-0.43657	20.00000	Averaged
69 2-Chloro Toluene	2.49067	2.33993	2.33993	0.010	-6.05211	20.00000	Averaged
70 4-Chloro Toluene	2.60264	2.64363	2.64363	0.010	1.57497	20.00000	Averaged
71 T-Butyl Benzene	2.46044	2.43276	2.43276	0.010	-1.12495	20.00000	Averaged
72 1,2,4-Trimethylbenzene	2.66731	2.63951	2.63951	0.010	-1.04236	20.00000	Averaged
73 S-Butyl Benzene	3.49334	3.63136	3.63136	0.010	3.95106	20.00000	Averaged
74 4-Isopropyl Toluene	2.69574	2.70811	2.70811	0.010	0.45917	20.00000	Averaged
75 1,3-Dichlorobenzene	1.58994	1.61939	1.61939	0.010	1.85215	20.00000	Averaged
77 1,4-Dichlorobenzene	1.53840	1.57818	1.57818	0.010	2.58631	20.00000	Averaged

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: finn5.i Injection Date: 26-SEP-2011 08:32
 Lab File ID: 0500926.d Init. Cal. Date(s): 17-AUG-2011 17-AUG-2011
 Analysis Type: SOIL Init. Cal. Times: 18:42 22:44
 Lab Sample ID: CC0926 Quant Type: ISTD
 Method: /chem1/finn5.i/26SEP11.b/s8260b.m

COMPOUND	CCAL		MIN	MAX		CURVE TYPE	
	RRF / AMOUNT	RF50	RRF50	RRF	%D / %DRIFT		
78 N-Butyl Benzene	2.90553	2.98997	2.98997	0.010	2.90633	20.00000	Averaged
79 d4-1,2-Dichlorobenzene	0.90104	0.87756	0.87756	0.010	-2.60581	20.00000	Averaged
80 1,2-Dichlorobenzene	1.44303	1.47681	1.47681	0.010	2.34057	20.00000	Averaged
81 1,2-Dibromo 3-Chloropropane	0.18867	0.14359	0.14359	0.010	-23.89435	20.00000	Averaged
82 1,2,4-Trichlorobenzene	1.13589	1.06721	1.06721	0.010	-6.04632	20.00000	Averaged
83 Hexachloro 1,3-Butadiene	0.88974	0.76405	0.76405	0.010	-14.12648	20.00000	Averaged
84 Naphthalene	1.96018	1.71764	1.71764	0.010	-12.37338	20.00000	Averaged
85 1,2,3-Trichlorobenzene	1.06115	0.95149	0.95149	0.010	-10.33444	20.00000	Averaged

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Sample ID: LCS-092911

Page 1 of 1

LAB CONTROL SAMPLE

Lab Sample ID: LCS-092911

QC Report No: TM91-Kennedy Jenks Consultants

LIMS ID: 11-20423

Project: Ecology Cornet Bay

Matrix: Soil

Data Release Authorized: *[Signature]*

Date Sampled: NA

Reported: 10/03/11

Date Received: NA

Instrument/Analyst LCS: NT9/PAB

Sample Amount LCS: 5.00 g-dry-wt

LCSD: NT9/PAB

LCSD: 5.00 g-dry-wt

Date Analyzed LCS: 09/29/11 08:10

Purge Volume LCS: 5.0 mL

LCSD: 09/29/11 08:31

LCSD: 5.0 mL

Moisture: NA

Analyte	LCS	Spike	LCS	LCSD	Spike	LCSD	RPD
		Added-LCS	Recovery		Added-LCSD	Recovery	
1,2-Dichloroethane	45.8	50.0	91.6%	48.7	50.0	97.4%	6.1%
Ethylene Dibromide	48.1	50.0	96.2%	50.2	50.0	100%	4.3%
Methyl tert-Butyl Ether	47.9	50.0	95.8%	50.9	50.0	102%	6.1%

Reported in µg/kg (ppb)

RPD calculated using sample concentrations per SW846.

Volatile Surrogate Recovery

	LCS	LCSD
d4-1,2-Dichloroethane	101%	102%
Bromofluorobenzene	100%	100%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 1

Sample ID: LCS-093011
LAB CONTROL SAMPLE

Lab Sample ID: LCS-093011
LIMS ID: 11-20415
Matrix: Soil
Data Release Authorized: *[Signature]*
Reported: 10/03/11

QC Report No: TM91-Kennedy Jenks Consultants
Project: Ecology Cornet Bay

Date Sampled: NA
Date Received: NA

Instrument/Analyst LCS: NT9/PAB
LCSD: NT9/PAB
Date Analyzed LCS: 09/30/11 14:45
LCSD: 09/30/11 16:58

Sample Amount LCS: 5.00 g-dry-wt
LCSD: 5.00 g-dry-wt
Purge Volume LCS: 5.0 mL
LCSD: 5.0 mL
Moisture: NA

Analyte	LCS	Spike	LCS	LCSD	Spike	LCSD	RPD
		Added-LCS	Recovery		Added-LCSD	Recovery	
1,2-Dichloroethane	42.1	50.0	84.2%	42.6	50.0	85.2%	1.2%
Ethylene Dibromide	45.3	50.0	90.6%	44.6	50.0	89.2%	1.6%
Methyl tert-Butyl Ether	48.8	50.0	97.6%	48.2	50.0	96.4%	1.2%

Reported in µg/kg (ppb)

RPD calculated using sample concentrations per SW846.

Volatile Surrogate Recovery

	LCS	LCSD
d4-1,2-Dichloroethane	112%	112%
Bromofluorobenzene	101%	101%

ORGANICS ANALYSIS DATA SHEET
PNAs by SIM SW8270D-SIM GC/MS
Page 1 of 1

Sample ID: MB-092111
METHOD BLANK

Lab Sample ID: MB-092111
LIMS ID: 11-20415
Matrix: Soil
Data Release Authorized: *[Signature]*
Reported: 10/04/11

QC Report No: TM91-Kennedy Jenks Consultants
Project: Ecology Cornet Bay
Event: NA
Date Sampled: NA
Date Received: NA

Date Extracted: 09/21/11
Date Analyzed: 09/26/11 16:39
Instrument/Analyst: NT4/JZ
GPC Cleanup: No
Silica Gel Cleanup: Yes
Alumina Cleanup: No

Sample Amount: 10.00 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: NA

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	5.0	< 5.0 U
91-57-6	2-Methylnaphthalene	5.0	< 5.0 U
90-12-0	1-Methylnaphthalene	5.0	< 5.0 U
208-96-8	Acenaphthylene	5.0	< 5.0 U
83-32-9	Acenaphthene	5.0	< 5.0 U
86-73-7	Fluorene	5.0	< 5.0 U
85-01-8	Phenanthrene	5.0	< 5.0 U
120-12-7	Anthracene	5.0	< 5.0 U
206-44-0	Fluoranthene	5.0	< 5.0 U
129-00-0	Pyrene	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	5.0	< 5.0 U
218-01-9	Chrysene	5.0	< 5.0 U
50-32-8	Benzo(a)pyrene	5.0	< 5.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	< 5.0 U
53-70-3	Dibenz(a,h)anthracene	5.0	< 5.0 U
191-24-2	Benzo(g,h,i)perylene	5.0	< 5.0 U
132-64-9	Dibenzofuran	5.0	< 5.0 U
TOTBFA	Total Benzofluoranthenes	5.0	< 5.0 U


Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 63.7%
d14-Dibenzo(a,h)anthracen 48.0%

ORGANICS ANALYSIS DATA SHEET
PNAs by SIM SW8270D-SIM GC/MS
Page 1 of 1

Sample ID: KJ-MW6-14
SAMPLE

Lab Sample ID: TM91E
LIMS ID: 11-20415
Matrix: Soil
Data Release Authorized: 
Reported: 10/04/11

QC Report No: TM91-Kennedy Jenks Consultants
Project: Ecology Cornet Bay
Event: NA
Date Sampled: 09/15/11
Date Received: 09/19/11

Date Extracted: 09/21/11
Date Analyzed: 09/26/11 18:11
Instrument/Analyst: NT4/JZ
GPC Cleanup: No
Silica Gel Cleanup: Yes
Alumina Cleanup: No

Sample Amount: 11.50 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 16.3%

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	4.4	49
91-57-6	2-Methylnaphthalene	4.4	120
90-12-0	1-Methylnaphthalene	4.4	64
208-96-8	Acenaphthylene	4.4	< 4.4 U
83-32-9	Acenaphthene	4.4	12
86-73-7	Fluorene	4.4	6.1
85-01-8	Phenanthrene	4.4	14
120-12-7	Anthracene	4.4	16
206-44-0	Fluoranthene	4.4	< 4.4 U
129-00-0	Pyrene	4.4	< 4.4 U
56-55-3	Benzo(a)anthracene	4.4	< 4.4 U
218-01-9	Chrysene	4.4	< 4.4 U
50-32-8	Benzo(a)pyrene	4.4	< 4.4 U
193-39-5	Indeno(1,2,3-cd)pyrene	4.4	< 4.4 U
53-70-3	Dibenz(a,h)anthracene	4.4	< 4.4 U
191-24-2	Benzo(g,h,i)perylene	4.4	< 4.4 U
132-64-9	Dibenzofuran	4.4	< 4.4 U
TOTBFA	Total Benzofluoranthenes	4.4	< 4.4 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 76.3%
d14-Dibenzo(a,h)anthracen 101%

ORGANICS ANALYSIS DATA SHEET
PNAs by SIM SW8270D-SIM GC/MS
Page 1 of 1

Sample ID: KJ-B35-4
SAMPLE

Lab Sample ID: TM91H
LIMS ID: 11-20418
Matrix: Soil
Data Release Authorized: *[Signature]*
Reported: 10/04/11

QC Report No: TM91-Kennedy Jenks Consultants
Project: Ecology Cornet Bay
Event: NA
Date Sampled: 09/15/11
Date Received: 09/19/11

Date Extracted: 09/21/11
Date Analyzed: 09/26/11 18:42
Instrument/Analyst: NT4/JZ
GPC Cleanup: No
Silica Gel Cleanup: Yes
Alumina Cleanup: No

Sample Amount: 10.80 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 17.8%

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	4.6	6,100 ES
91-57-6	2-Methylnaphthalene	4.6	12,000 ES
90-12-0	1-Methylnaphthalene	4.6	8,600 ES
208-96-8	Acenaphthylene	4.6	< 4.6 U
83-32-9	Acenaphthene	4.6	2,200 ES
86-73-7	Fluorene	4.6	1,500 ES
85-01-8	Phenanthrene	4.6	2,300 ES
120-12-7	Anthracene	4.6	280
206-44-0	Fluoranthene	4.6	49
129-00-0	Pyrene	4.6	200
56-55-3	Benzo (a) anthracene	4.6	7.2
218-01-9	Chrysene	4.6	20
50-32-8	Benzo (a) pyrene	4.6	< 4.6 U
193-39-5	Indeno (1, 2, 3-cd) pyrene	4.6	< 4.6 U
53-70-3	Dibenz (a, h) anthracene	4.6	< 4.6 U
191-24-2	Benzo (g, h, i) perylene	4.6	< 4.6 U
132-64-9	Dibenzofuran	4.6	870 E
TOTBFA	Total Benzofluoranthenes	4.6	5.6

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 64.7%
d14-Dibenzo (a, h) anthracen 97.7%

ORGANICS ANALYSIS DATA SHEET
PNAs by SIM SW8270D-SIM GC/MS
Page 1 of 1

Sample ID: KJ-B35-4
DILUTION

Lab Sample ID: TM91H
LIMS ID: 11-20418
Matrix: Soil
Data Release Authorized: *RB*
Reported: 10/04/11

QC Report No: TM91-Kennedy Jenks Consultants
Project: Ecology Cornet Bay
Event: NA
Date Sampled: 09/15/11
Date Received: 09/19/11

Date Extracted: 09/21/11
Date Analyzed: 09/27/11 18:18
Instrument/Analyst: NT4/JZ
GPC Cleanup: No
Silica Gel Cleanup: Yes
Alumina Cleanup: No

Sample Amount: 10.80 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 50.0
Percent Moisture: 17.8%

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	230	9,000
91-57-6	2-Methylnaphthalene	230	21,000
90-12-0	1-Methylnaphthalene	230	13,000
208-96-8	Acenaphthylene	230	< 230 U
83-32-9	Acenaphthene	230	2,600
86-73-7	Fluorene	230	1,600
85-01-8	Phenanthrene	230	3,200
120-12-7	Anthracene	230	290
206-44-0	Fluoranthene	230	< 230 U
129-00-0	Pyrene	230	230
56-55-3	Benzo(a)anthracene	230	< 230 U
218-01-9	Chrysene	230	< 230 U
50-32-8	Benzo(a)pyrene	230	< 230 U
193-39-5	Indeno(1,2,3-cd)pyrene	230	< 230 U
53-70-3	Dibenz(a,h)anthracene	230	< 230 U
191-24-2	Benzo(g,h,i)perylene	230	< 230 U
132-64-9	Dibenzofuran	230	960
TOTBFA	Total Benzofluoranthenes	230	< 230 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene D
d14-Dibenzo(a,h)anthracene D

ORGANICS ANALYSIS DATA SHEET
PNAs by SIM SW8270D-SIM GC/MS
Page 1 of 1

Sample ID: KJ-B38-7
SAMPLE

Lab Sample ID: TM91M
LIMS ID: 11-20423
Matrix: Soil
Data Release Authorized: *[Signature]*
Reported: 10/04/11

QC Report No: TM91-Kennedy Jenks Consultants
Project: Ecology Cornet Bay
Event: NA
Date Sampled: 09/16/11
Date Received: 09/19/11

Date Extracted: 09/21/11
Date Analyzed: 09/26/11 19:13
Instrument/Analyst: NT4/JZ
GPC Cleanup: No
Silica Gel Cleanup: Yes
Alumina Cleanup: No

Sample Amount: 10.26 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 22.6%

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	4.9	3,700 ES
91-57-6	2-Methylnaphthalene	4.9	11,000 ES
90-12-0	1-Methylnaphthalene	4.9	7,800 ES
208-96-8	Acenaphthylene	4.9	< 4.9 U
83-32-9	Acenaphthene	4.9	2,700 ES
86-73-7	Fluorene	4.9	1,500 ES
85-01-8	Phenanthrene	4.9	2,500 ES
120-12-7	Anthracene	4.9	410
206-44-0	Fluoranthene	4.9	87
129-00-0	Pyrene	4.9	160
56-55-3	Benzo (a) anthracene	4.9	17
218-01-9	Chrysene	4.9	27
50-32-8	Benzo (a) pyrene	4.9	6.7
193-39-5	Indeno (1, 2, 3-cd) pyrene	4.9	< 4.9 U
53-70-3	Dibenz (a, h) anthracene	4.9	< 4.9 U
191-24-2	Benzo (g, h, i) perylene	4.9	< 4.9 U
132-64-9	Dibenzofuran	4.9	800 E
TOTBFA	Total Benzofluoranthenes	4.9	14

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 77.0%
d14-Dibenzo (a, h) anthracen 85.3%

ORGANICS ANALYSIS DATA SHEET
PNAs by SIM SW8270D-SIM GC/MS
Page 1 of 1

Sample ID: KJ-B38-7
DILUTION

Lab Sample ID: TM91M
LIMS ID: 11-20423
Matrix: Soil
Data Release Authorized: *AS*
Reported: 10/04/11

QC Report No: TM91-Kennedy Jenks Consultants
Project: Ecology Cornet Bay
Event: NA
Date Sampled: 09/16/11
Date Received: 09/19/11

Date Extracted: 09/21/11
Date Analyzed: 09/27/11 16:15
Instrument/Analyst: NT4/JZ
GPC Cleanup: No
Silica Gel Cleanup: Yes
Alumina Cleanup: No

Sample Amount: 10.26 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 50.0
Percent Moisture: 22.6%

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	240	4,000
91-57-6	2-Methylnaphthalene	240	13,000
90-12-0	1-Methylnaphthalene	240	8,300
208-96-8	Acenaphthylene	240	< 240 U
83-32-9	Acenaphthene	240	2,600
86-73-7	Fluorene	240	1,400
85-01-8	Phenanthrene	240	2,800
120-12-7	Anthracene	240	< 240 U
206-44-0	Fluoranthene	240	< 240 U
129-00-0	Pyrene	240	< 240 U
56-55-3	Benzo(a)anthracene	240	< 240 U
218-01-9	Chrysene	240	< 240 U
50-32-8	Benzo(a)pyrene	240	< 240 U
193-39-5	Indeno(1,2,3-cd)pyrene	240	< 240 U
53-70-3	Dibenz(a,h)anthracene	240	< 240 U
191-24-2	Benzo(g,h,i)perylene	240	< 240 U
132-64-9	Dibenzofuran	240	690
TOTBFA	Total Benzofluoranthenes	240	< 240 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene D
d14-Dibenzo(a,h)anthracen D

SIM SW8270 SURROGATE RECOVERY SUMMARY

Matrix: Soil

QC Report No: TM91-Kennedy Jenks Consultants
Project: Ecology Cornet Bay

<u>Client ID</u>	<u>MNP</u>	<u>DBA</u>	<u>TOT OUT</u>
MB-092111	63.7%	48.0%	0
LCS-092111	85.3%	103%	0
LCSD-092111	77.0%	93.7%	0
KJ-MW6-14	76.3%	101%	0
KJ-B35-4	64.7%	97.7%	0
KJ-B35-4 DL	D	D	0
KJ-B38-7	77.0%	85.3%	0
KJ-B38-7 DL	D	D	0

LCS/MB LIMITS QC LIMITS

(MNP) = d10-2-Methylnaphthalene (35-100) (34-100)
(DBA) = d14-Dibenzo(a,h)anthracene (37-120) (10-117)

Prep Method: SW3546
Log Number Range: 11-20415 to 11-20423

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D-SIM GC/MS
 Page 1 of 1

Sample ID: LCS-092111
 LAB CONTROL SAMPLE

Lab Sample ID: LCS-092111
 LIMS ID: 11-20415
 Matrix: Soil
 Data Release Authorized: *AB*
 Reported: 10/04/11

QC Report No: TM91-Kennedy Jenks Consultants
 Project: Ecology Cornet Bay
 Event: NA
 Date Sampled: NA
 Date Received: NA

Date Extracted: 09/21/11
 Date Analyzed LCS: 09/26/11 12:30
 LCSD: 09/26/11 13:01
 Instrument/Analyst LCS: NT4/JZ
 LCSD: NT4/JZ

Sample Amount LCS: 10.0 g-dry-wt
 LCSD: 10.0 g-dry-wt
 Final Extract Volume LCS: 0.50 mL
 LCSD: 0.50 mL
 Dilution Factor LCS: 1.00
 LCSD: 1.00

Analyte	LCS	Spike		LCS	LCSD	Spike		RPD
		Added-LCS	Recovery			Added-LCSD	Recovery	
Naphthalene	110	150	73.3%	105	150	70.0%	4.7%	
2-Methylnaphthalene	106	150	70.7%	102	150	68.0%	3.8%	
1-Methylnaphthalene	120	150	80.0%	113	150	75.3%	6.0%	
Acenaphthylene	125	150	83.3%	117	150	78.0%	6.6%	
Acenaphthene	113	150	75.3%	108	150	72.0%	4.5%	
Fluorene	121	150	80.7%	120	150	80.0%	0.8%	
Phenanthrene	129	150	86.0%	123	150	82.0%	4.8%	
Anthracene	151	150	101%	127	150	84.7%	17.3%	
Fluoranthene	145	150	96.7%	146	150	97.3%	0.7%	
Pyrene	150	150	100%	148	150	98.7%	1.3%	
Benzo(a)anthracene	164	150	109%	161	150	107%	1.8%	
Chrysene	142	150	94.7%	142	150	94.7%	0.0%	
Benzo(a)pyrene	130	150	86.7%	127	150	84.7%	2.3%	
Indeno(1,2,3-cd)pyrene	132	150	88.0%	116	150	77.3%	12.9%	
Dibenz(a,h)anthracene	135	150	90.0%	129	150	86.0%	4.5%	
Benzo(g,h,i)perylene	120	150	80.0%	128	150	85.3%	6.5%	
Dibenzofuran	109	150	72.7%	105	150	70.0%	3.7%	
Total Benzofluoranthenes	259	300	86.3%	264	300	88.0%	1.9%	

Reported in µg/kg (ppb)

RPD calculated using sample concentrations per SW846.

SIM Semivolatile Surrogate Recovery

	LCS	LCSD
d10-2-Methylnaphthalene	85.3%	77.0%
d14-Dibenzo(a,h)anthracen	103%	93.7%

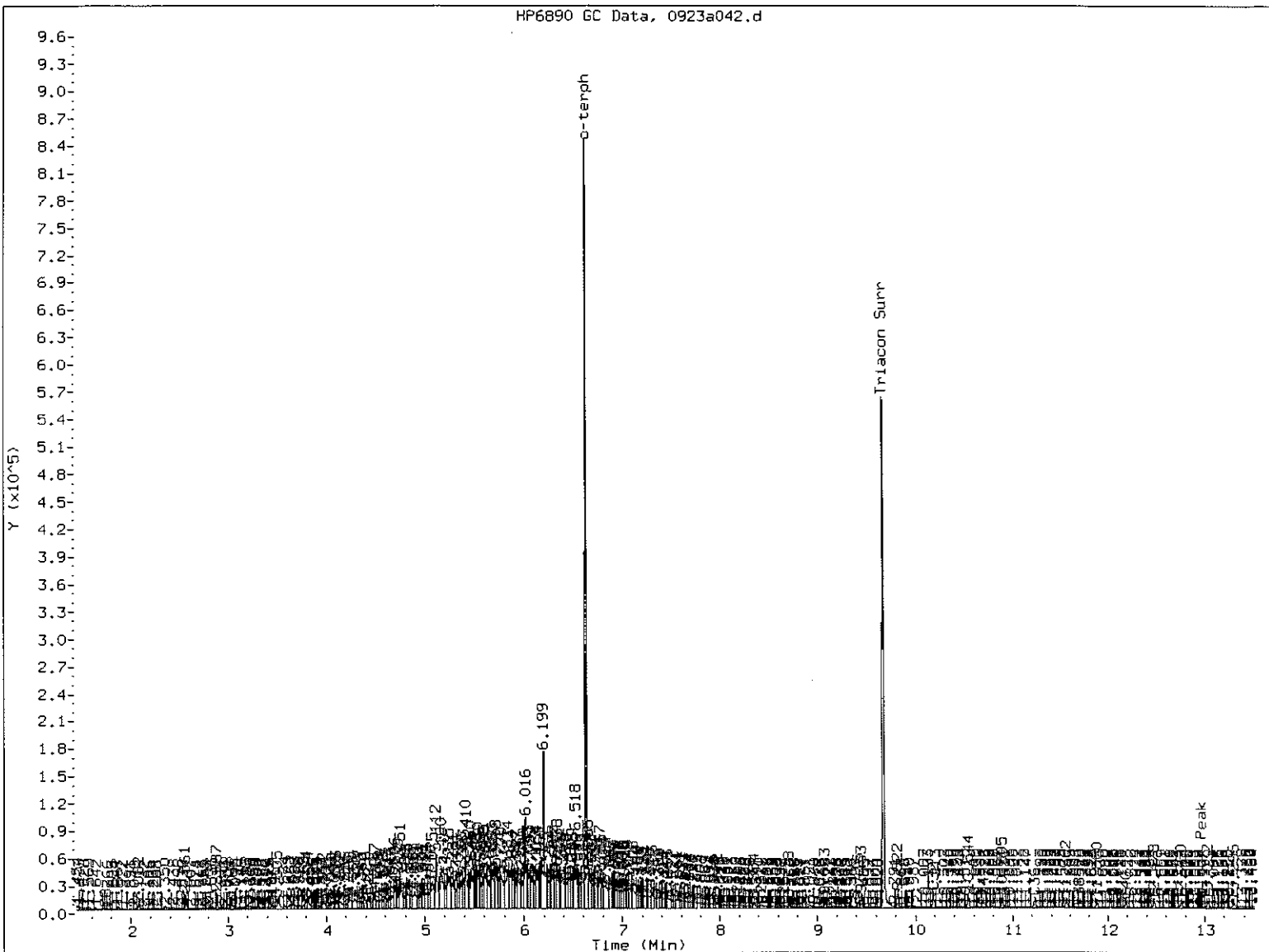
**ORGANICS ANALYSIS DATA SHEET
TOTAL DIESEL RANGE HYDROCARBONS**

NWTPHD by GC/FID-Silica and Acid Cleaned
Page 1 of 2
Matrix: Soil

QC Report No: TM91-Kennedy Jenks Consultants
Project: Ecology Cornet Bay

Data Release Authorized: *MW*
Reported: 09/27/11

ARI ID	Sample ID	Extraction Date	Analysis Date	EFV DL	Range	RL	Result
TM91A 11-20411	KJ-B33-4 HC ID: DIESEL	09/21/11	09/24/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	5.5 11	37 < 11 U 77.9%
TM91B 11-20412	KJ-MW4-13 HC ID: DRO	09/21/11	09/24/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	6.0 12	9.4 < 12 U 87.7%
TM91C 11-20413	KJ-MW5-12 HC ID: ---	09/21/11	09/24/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	6.2 12	< 6.2 U < 12 U 77.4%
MB-092111 11-20414	Method Blank HC ID: ---	09/21/11	09/24/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	5.0 10	< 5.0 U < 10 U 89.5%
TM91D 11-20414	KJ-MW6-4 HC ID: DIESEL	09/21/11	09/26/11 FID4A	1.00 20	Diesel Motor Oil o-Terphenyl	110 210	1800 < 210 U 46.2%
TM91E 11-20415	KJ-MW6-14 HC ID: ---	09/21/11	09/24/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	6.0 12	< 6.0 U < 12 U 81.7%
TM91F 11-20416	KJ-MW7-5 HC ID: ---	09/21/11	09/24/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	6.7 13	< 6.7 U < 13 U 85.2%
TM91G 11-20417	KJ-B34-5 HC ID: DIESEL	09/21/11	09/26/11 FID4A	1.00 5.0	Diesel Motor Oil o-Terphenyl	32 63	710 < 63 U 62.0%
TM91H 11-20418	KJ-B35-4 HC ID: DIESEL	09/21/11	09/26/11 FID4A	1.00 10	Diesel Motor Oil o-Terphenyl	61 120	970 < 120 U 58.0%
TM91I 11-20419	KJ-B35-8 HC ID: ---	09/21/11	09/24/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	6.2 12	< 6.2 U < 12 U 89.1%
TM91J 11-20420	KJ-B101 HC ID: DIESEL	09/21/11	09/26/11 FID4A	1.00 5.0	Diesel Motor Oil o-Terphenyl	28 57	760 < 57 U 54.6%
TM91K 11-20421	KJ-B36-8 HC ID: DIESEL	09/21/11	09/26/11 FID4A	1.00 50	Diesel Motor Oil o-Terphenyl	300 600	7700 < 600 U D
TM91L 11-20422	KJ-B37-9 HC ID: ---	09/21/11	09/24/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	7.0 14	< 7.0 U < 14 U 77.6%



MANUAL INTEGRATION

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

✓ 5. Other Surr pk overlap

Analyst: AR

Date: 9/26/2011

Data File: /chem3/fid4a.i/20110923a.b/0923a042.d

Date: 24-SEP-2011 09:15

Client ID: KJ-B33-4

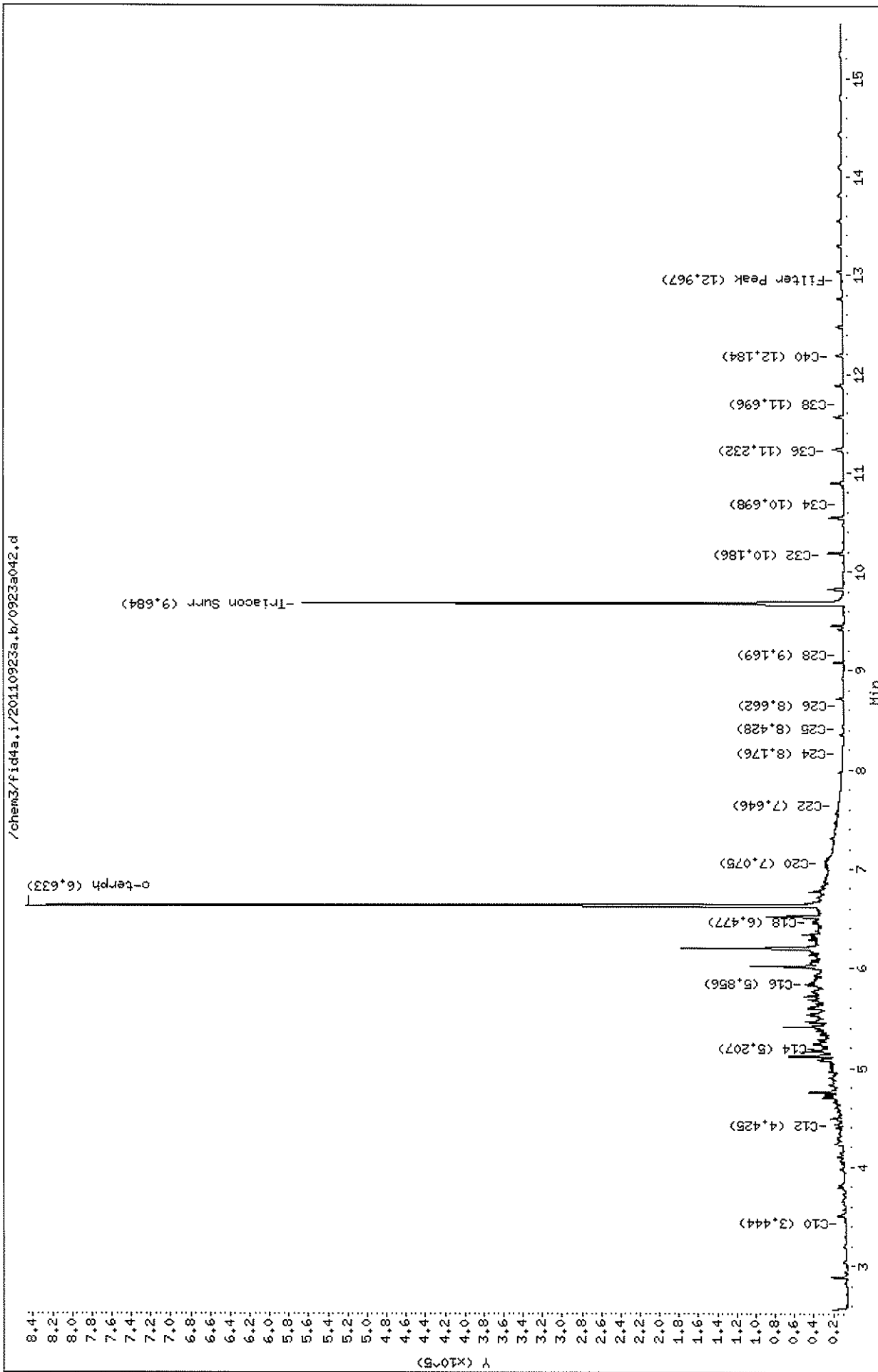
Sample Info: TH91A

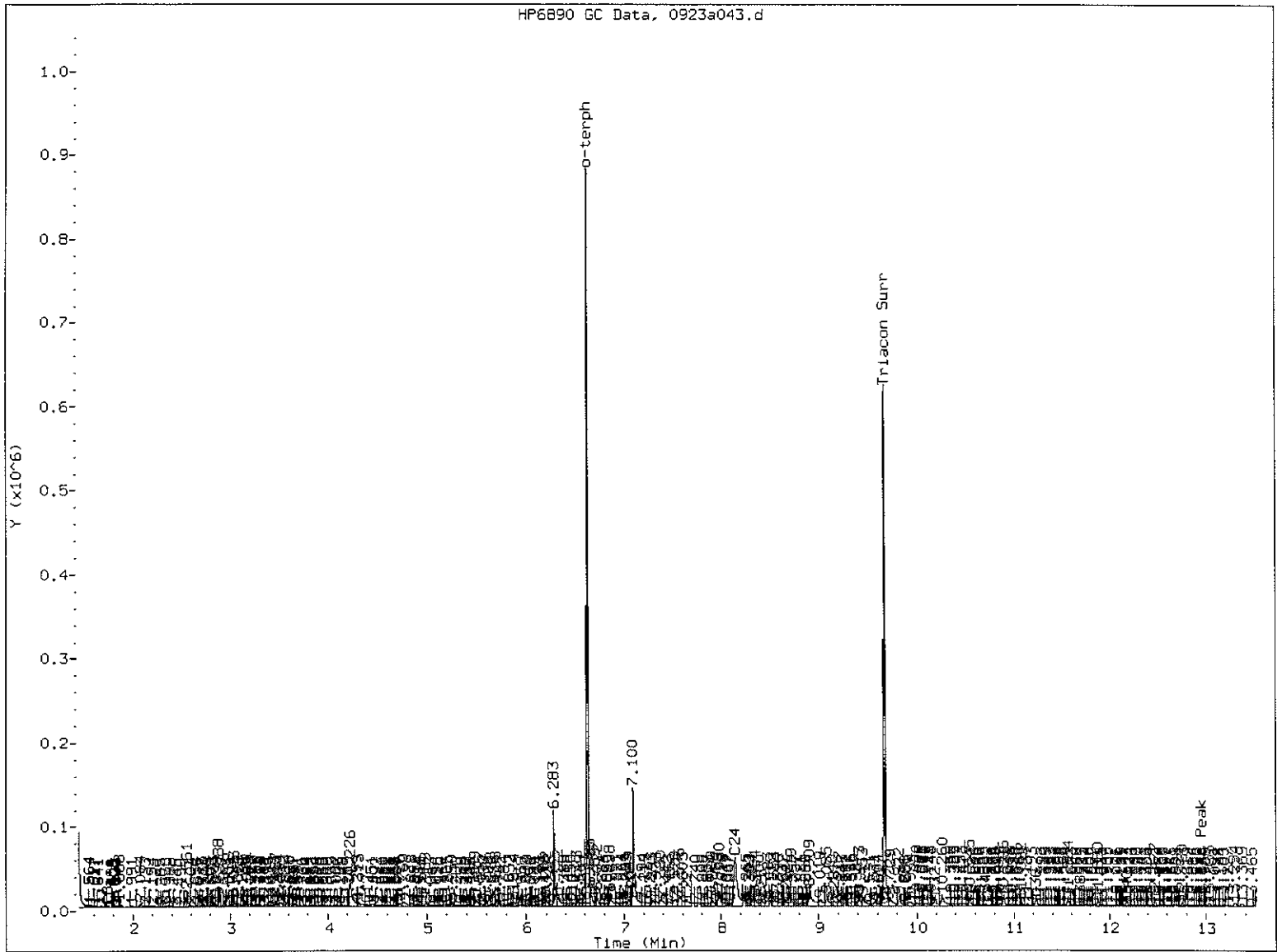
Instrument: fid4a.i

Operator: MS

Column diameter: 0.25

Column phase: RTX-1





MANUAL INTEGRATION

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other Surr pk overlap

Analyst: AR

Date: 9/26/2011

Data File: /chem3/fid4a.i/20110923a.b/0923a043.d

Date: 24-SEP-2011 09:39

Client ID: KJ-HM4-13

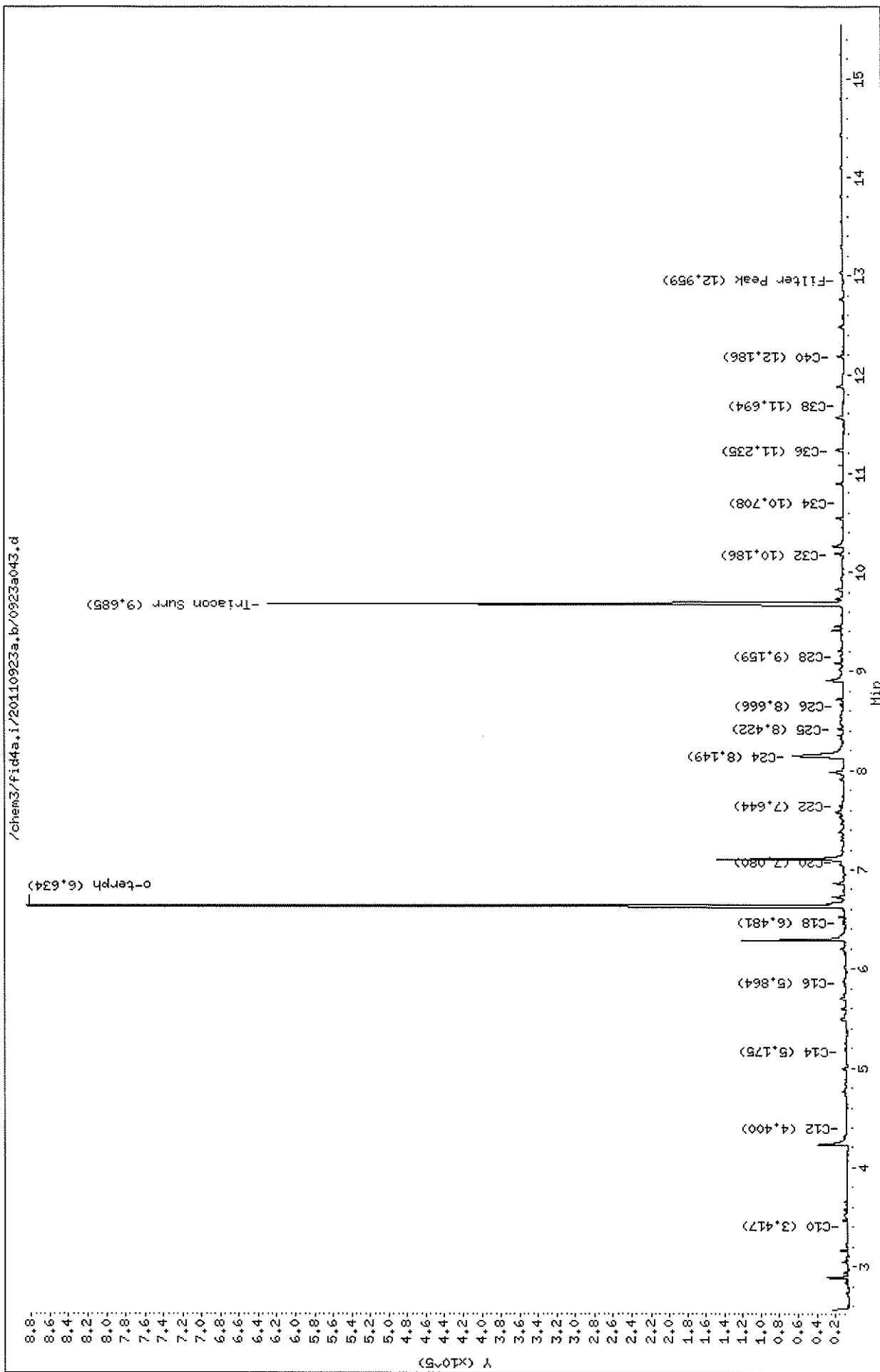
Sample Info: TM91B

Instrument: fid4a.i

Operator: MS

Column diameter: 0.25

Column phase: RTX-1



Data File: /chem3/fid4a.i/20110923a.b/0923a040.d

Date: 24-SEP-2011 08:29

Client ID: TH91HBS1

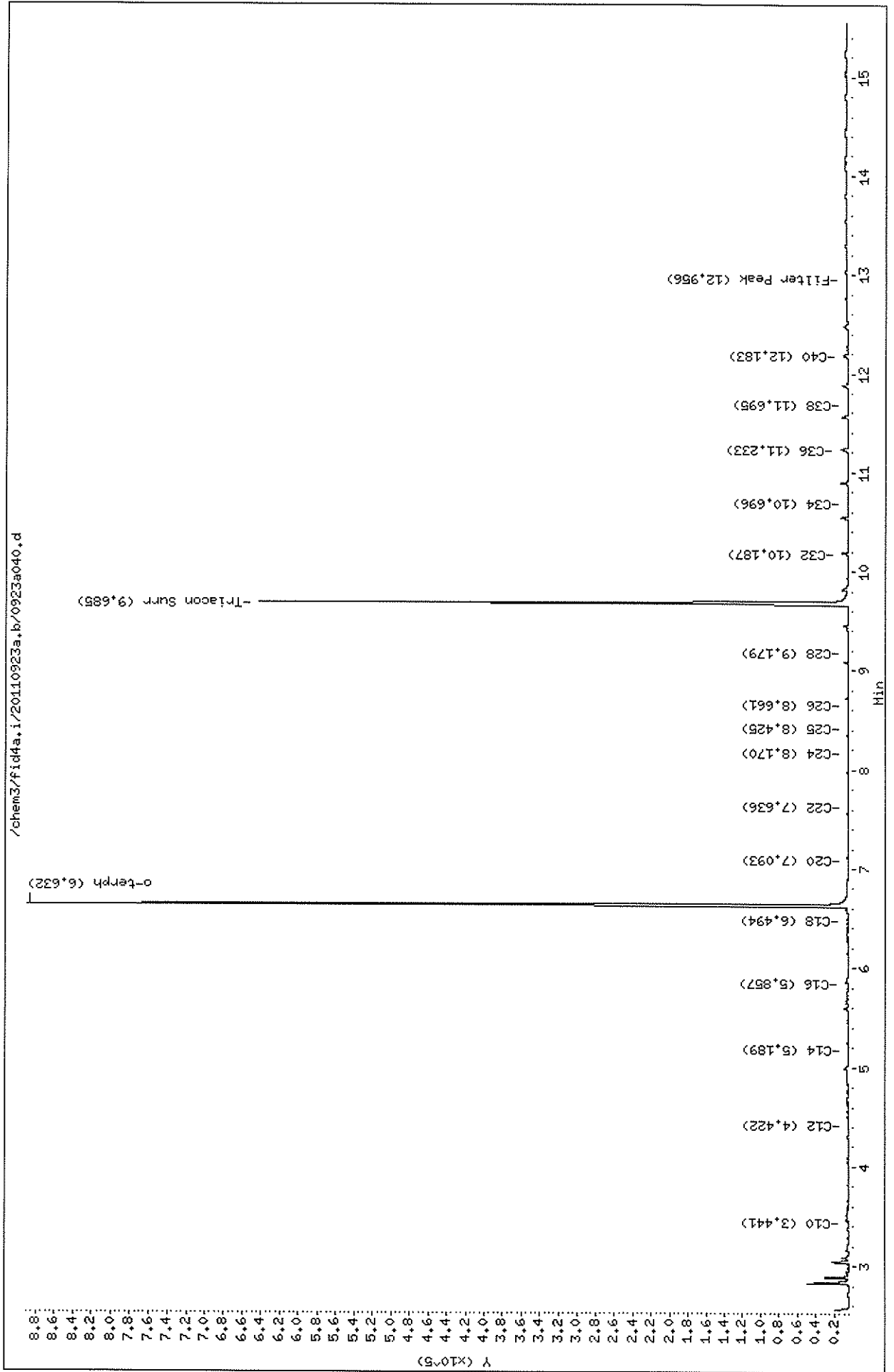
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Instrument: fid4a.i

Operator: MS

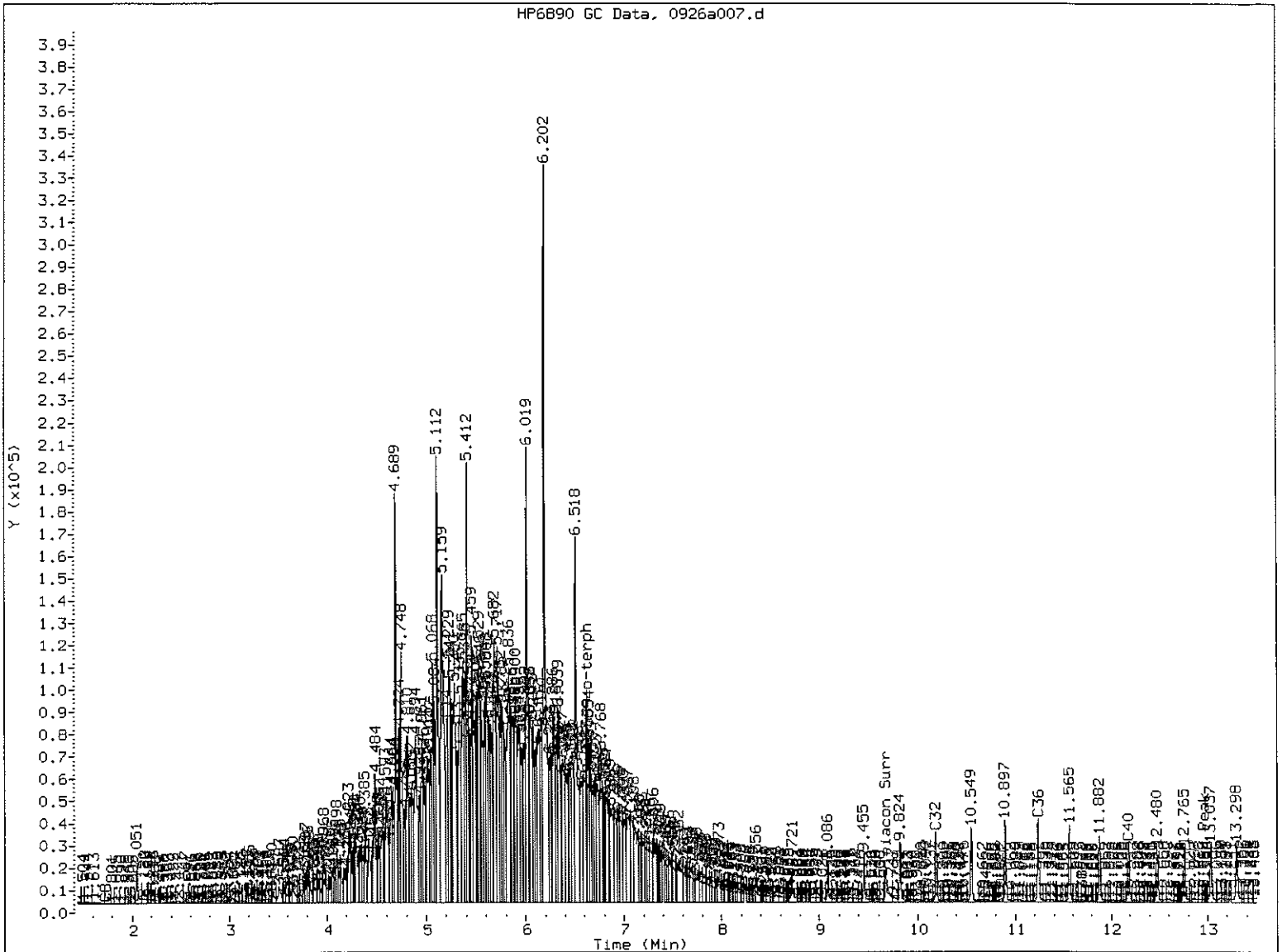
Column diameter: 0.25

Column phase: RTX-1



000000 : 10W

HP6890 GC Data, 0926a007.d



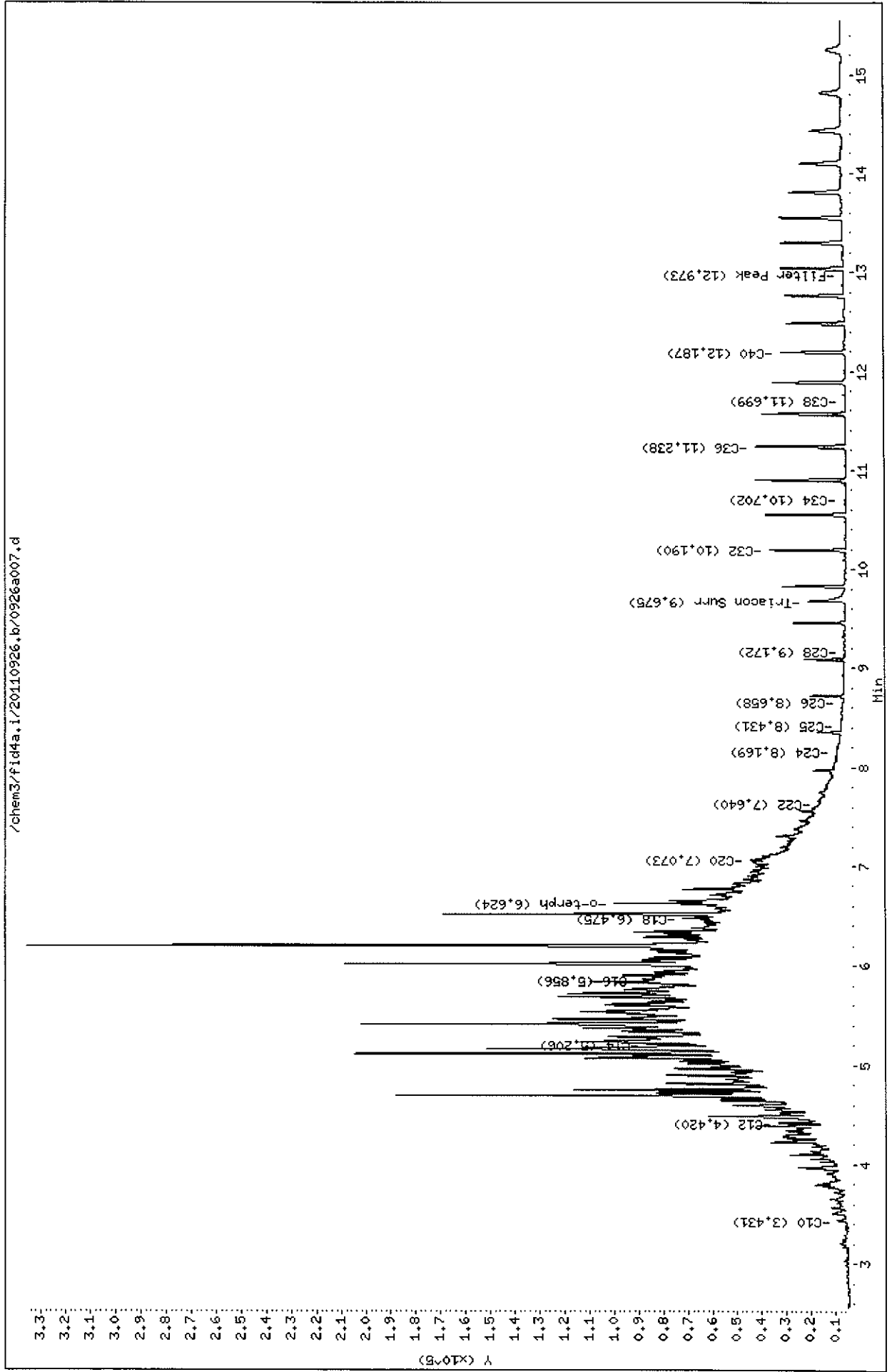
MANUAL INTEGRATION

1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation
5. Other Surr pk overlap

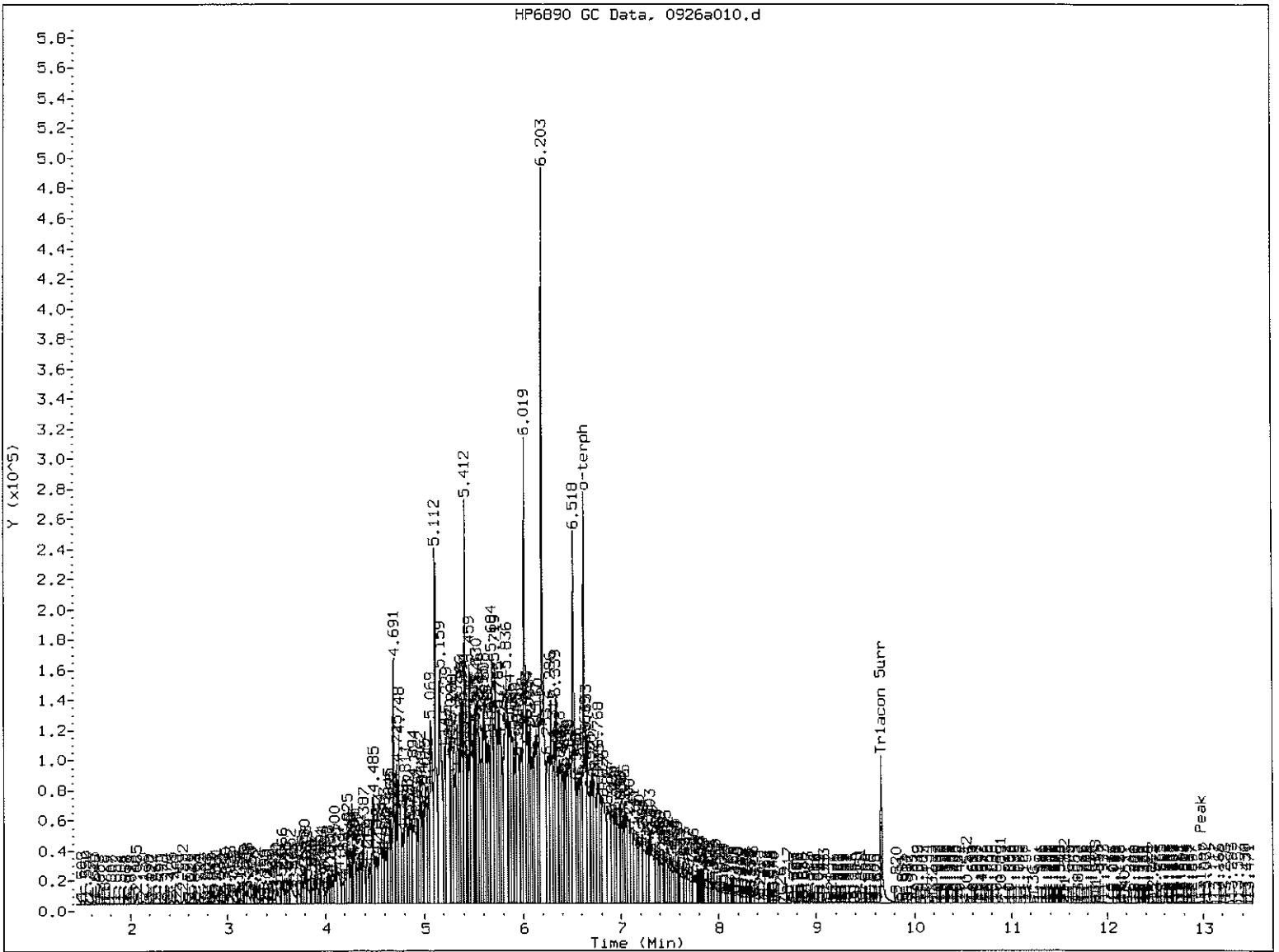
Analyst: AR

Date: 9/27/2011

Data File: /chem3/fid4a.i/20110926.b/0926a007.d
Date : 26-SEP-2011 19:07
Client ID: KJ-HM6-4
Sample Info: TH91D,20
Column phase: RTX-1
Operator: MS
Column diameter: 0.25



15000 : 10M1



MANUAL INTEGRATION

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other Surr pt. overlap

Analyst: AR

Date: 9/27/2011

Data File: /chem3/fid4a.i/20110926.b/0926a010.d

Date : 26-SEP-2011 20:16

Client ID: KJ-B34-5

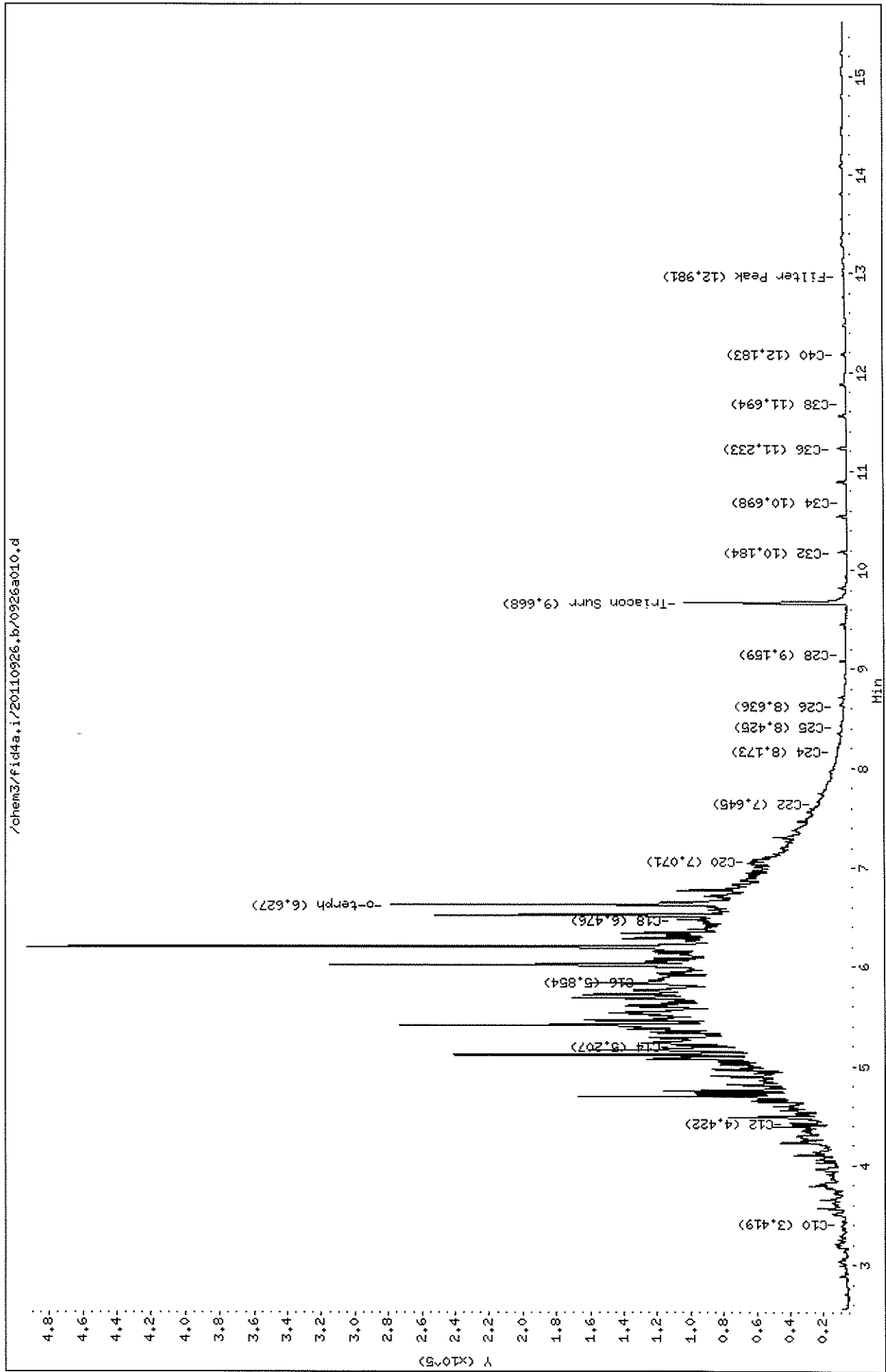
Sample Info: TM91G.5

Instrument: fid4a.i

Operator: HS

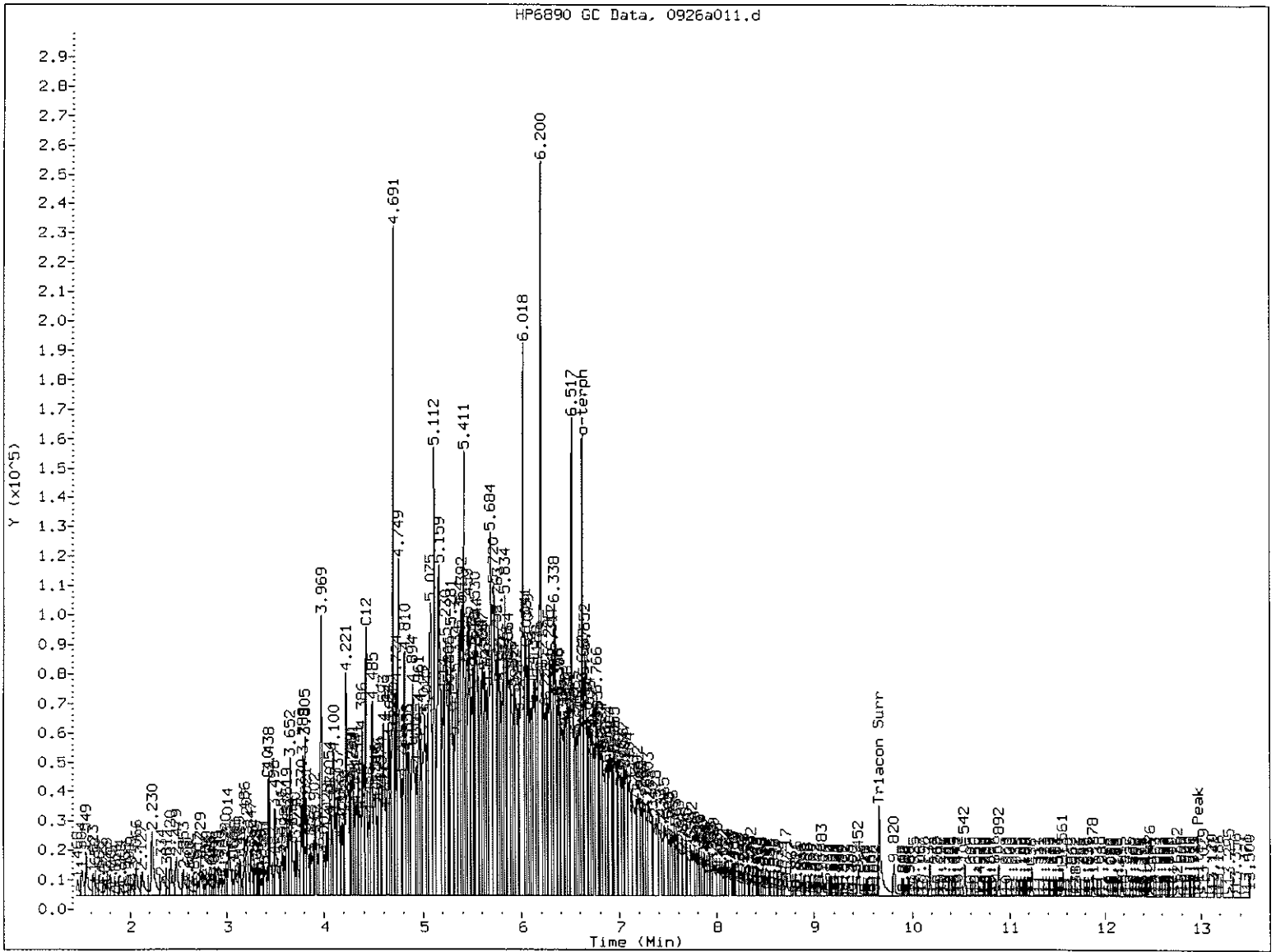
Column diameter: 0.25

Column phase: RTX-1



07/09/09 : 10:54 AM

HP6890 GC Data, 0926a011.d



MANUAL INTEGRATION

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

5. Other Surr pk. overlap

Analyst: AR

Date: 9/27/2011

Data File: /chem3/fid4a.i/20110926.b/0926a011.d

Date : 26-SEP-2011 20:39

Client ID: KJ-B35-4

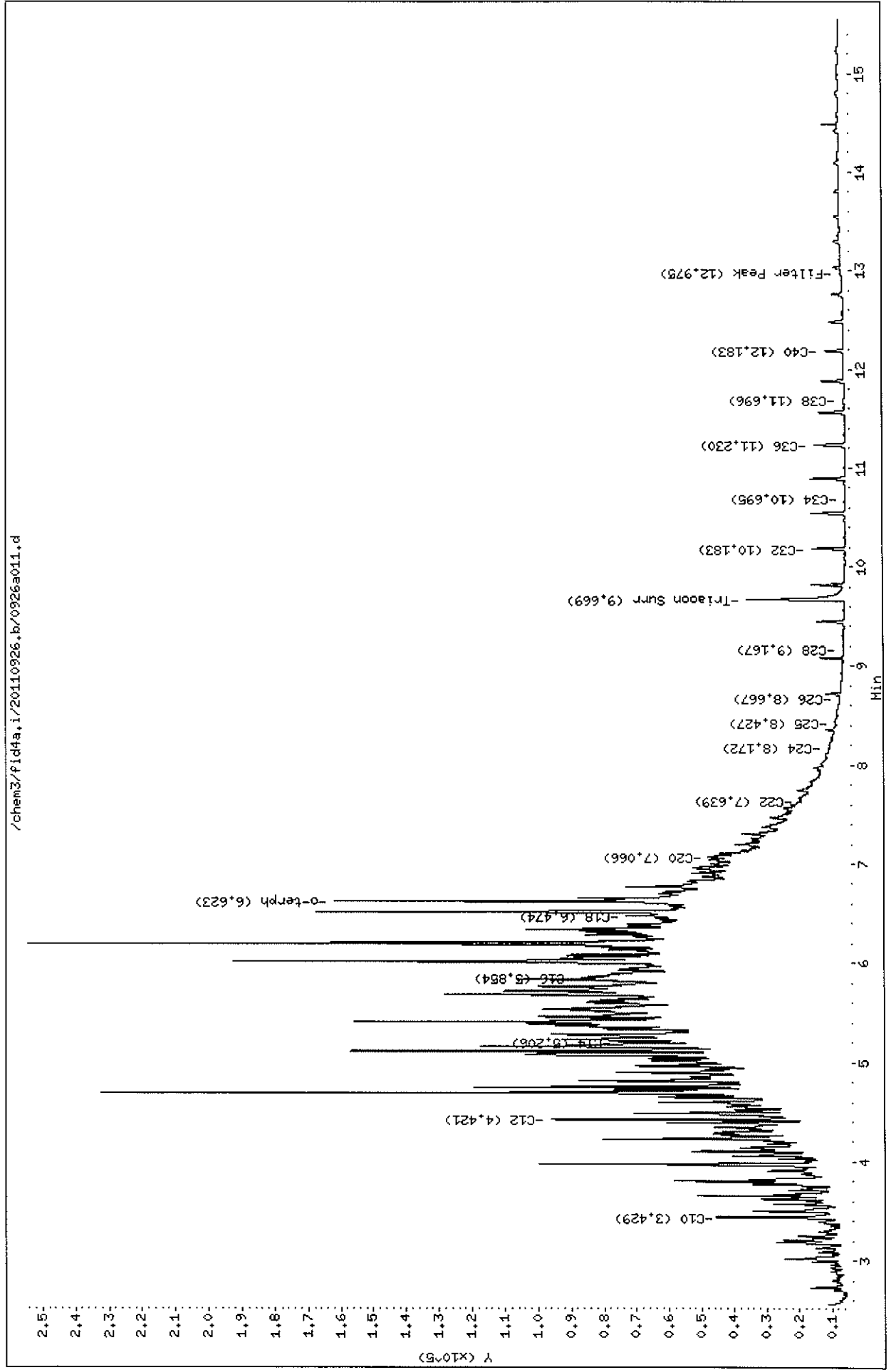
Sample Info: TM91H/10

Instrument: fid4a.i

Operator: HS

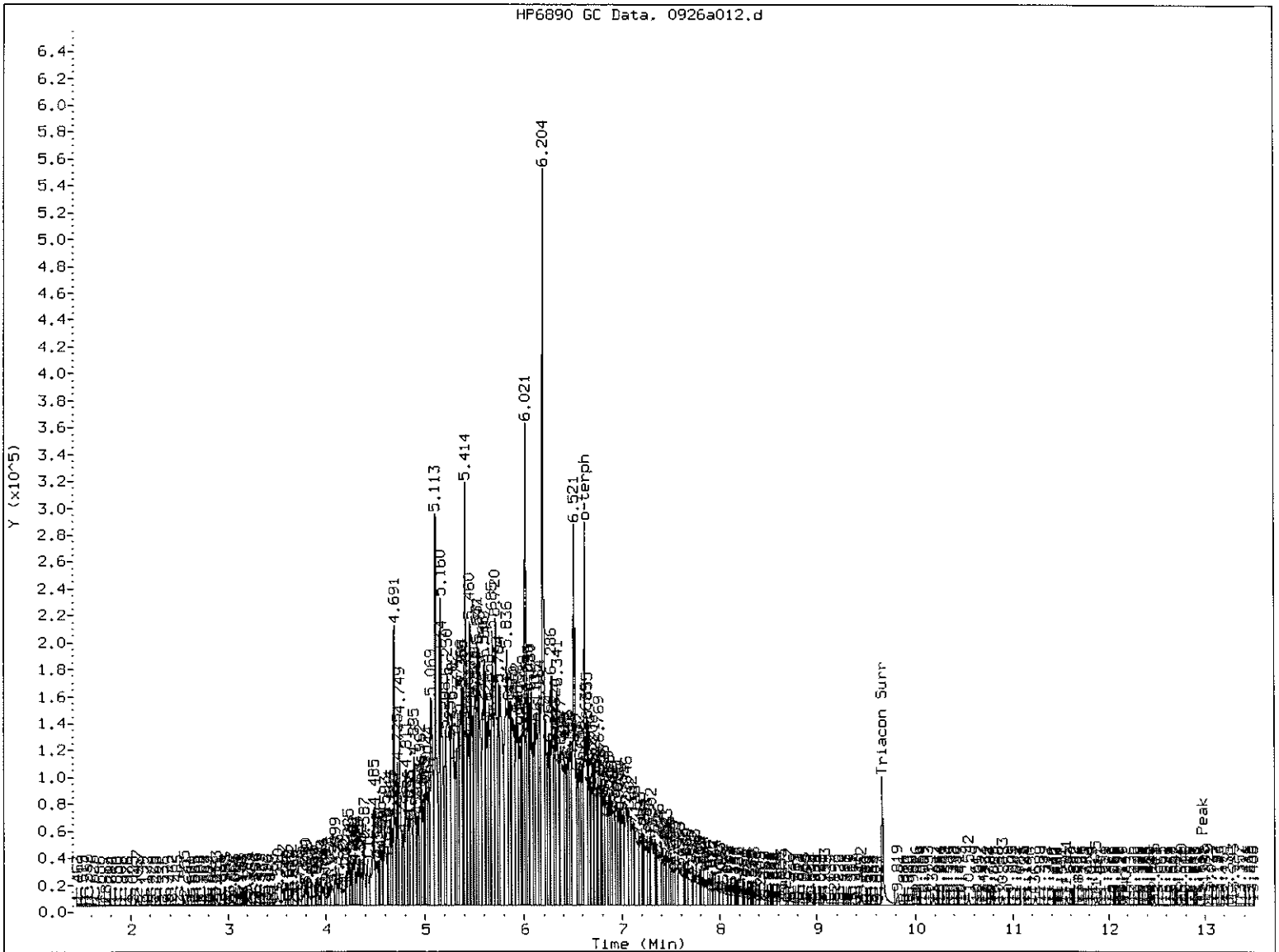
Column diameter: 0.25

Column phase: RTX-1



157000 : 10M1

HP6890 GC Data, 0926a012.d



MANUAL INTEGRATION

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

5. other Surv pt. overlap

Analyst: AR

Date: 9/27/2011

Data File: /chem3/fid4a.i/20110926.b/0926a012.d

Date: 26-SEP-2011 21:03

Client ID: KJ-B101

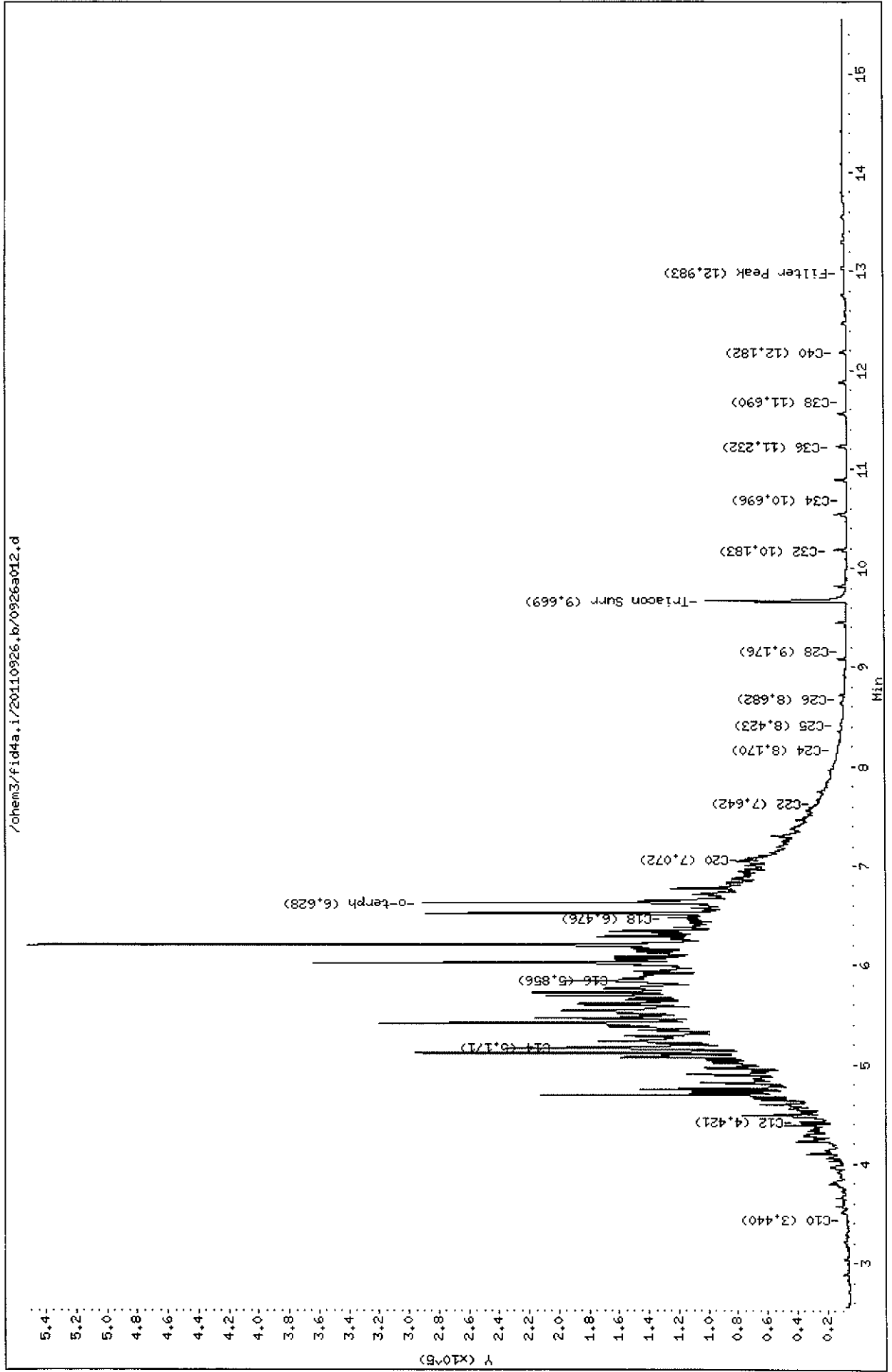
Sample Info: TH91J,5

Instrument: fid4a.i

Operator: MS

Column diameter: 0.25

Column phase: RTX-1



Data File: /chem3/fid4a.i/20110926.b/0926a013.d

Date : 26-SEP-2011 21:26

Client ID: KJ-B36-8

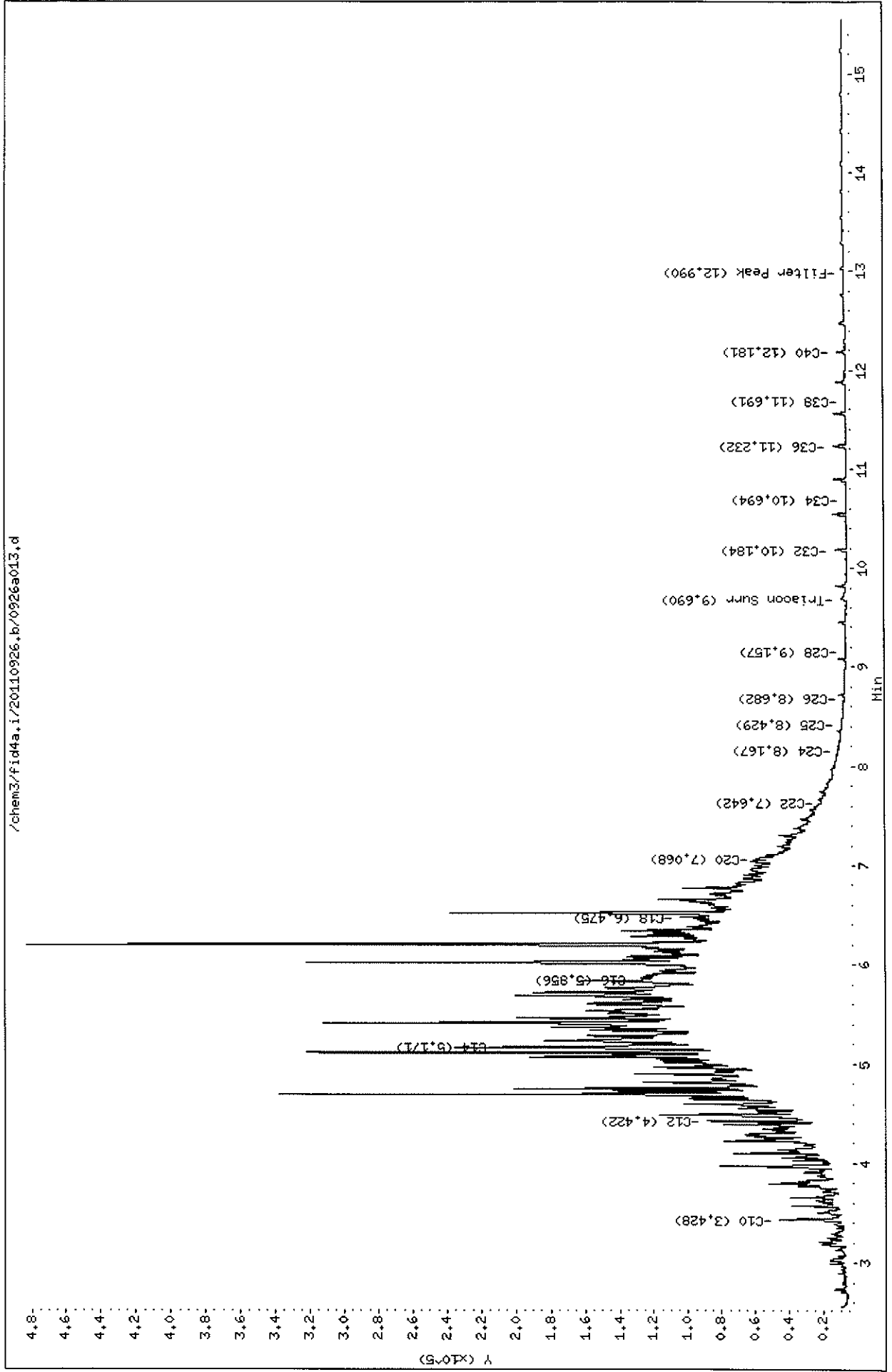
Sample Info: TH91K,50

Instrument: fid4a.i

Operator: MS

Column diameter: 0.25

Column phase: RTX-1



ORGANICS ANALYSIS DATA SHEET

TOTAL DIESEL RANGE HYDROCARBONS

NWTPHD by GC/FID-Silica and Acid Cleaned

Page 2 of 2

Matrix: Soil

QC Report No: TM91-Kennedy Jenks Consultants
Project: Ecology Cornet Bay

Data Release Authorized: *m*
Reported: 09/27/11

ARI ID	Sample ID	Extraction Date	Analysis Date	EFV DL	Range	RL	Result
TM91M 11-20423	KJ-B38-7 HC ID: DIESEL	09/21/11	09/26/11 FID4A	1.00 5.0	Diesel Motor Oil o-Terphenyl	30 61	810 < 61 U 54.1%
TM91N 11-20424	KJ-B38-13 HC ID: ---	09/21/11	09/24/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	6.1 12	< 6.1 U < 12 U 82.4%
TM91O 11-20425	KJ-B39-8 HC ID: DRO	09/21/11	09/24/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	6.0 12	6.0 < 12 U 82.0%
TM91P 11-20426	KJ-B40-4 HC ID: ---	09/21/11	09/24/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	5.6 11	< 5.6 U < 11 U 80.3%
TM91Q 11-20427	KJ-B41-6 HC ID: DRO/MOTOR OIL	09/21/11	09/24/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	6.2 12	45 64 73.5%
TM91R 11-20428	KJ-B42-8 HC ID: ---	09/21/11	09/24/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	5.8 12	< 5.8 U < 12 U 81.8%
TM91S 11-20429	KJ-B43-4 HC ID: DRO	09/21/11	09/24/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	5.8 12	27 < 12 U 54.7%
TM91T 11-20430	KJ-B44-4 HC ID: DRO	09/21/11	09/24/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	5.7 11	20 < 11 U 69.9%

Reported in mg/kg (ppm)

EFV-Effective Final Volume in mL.

DL-Dilution of extract prior to analysis.

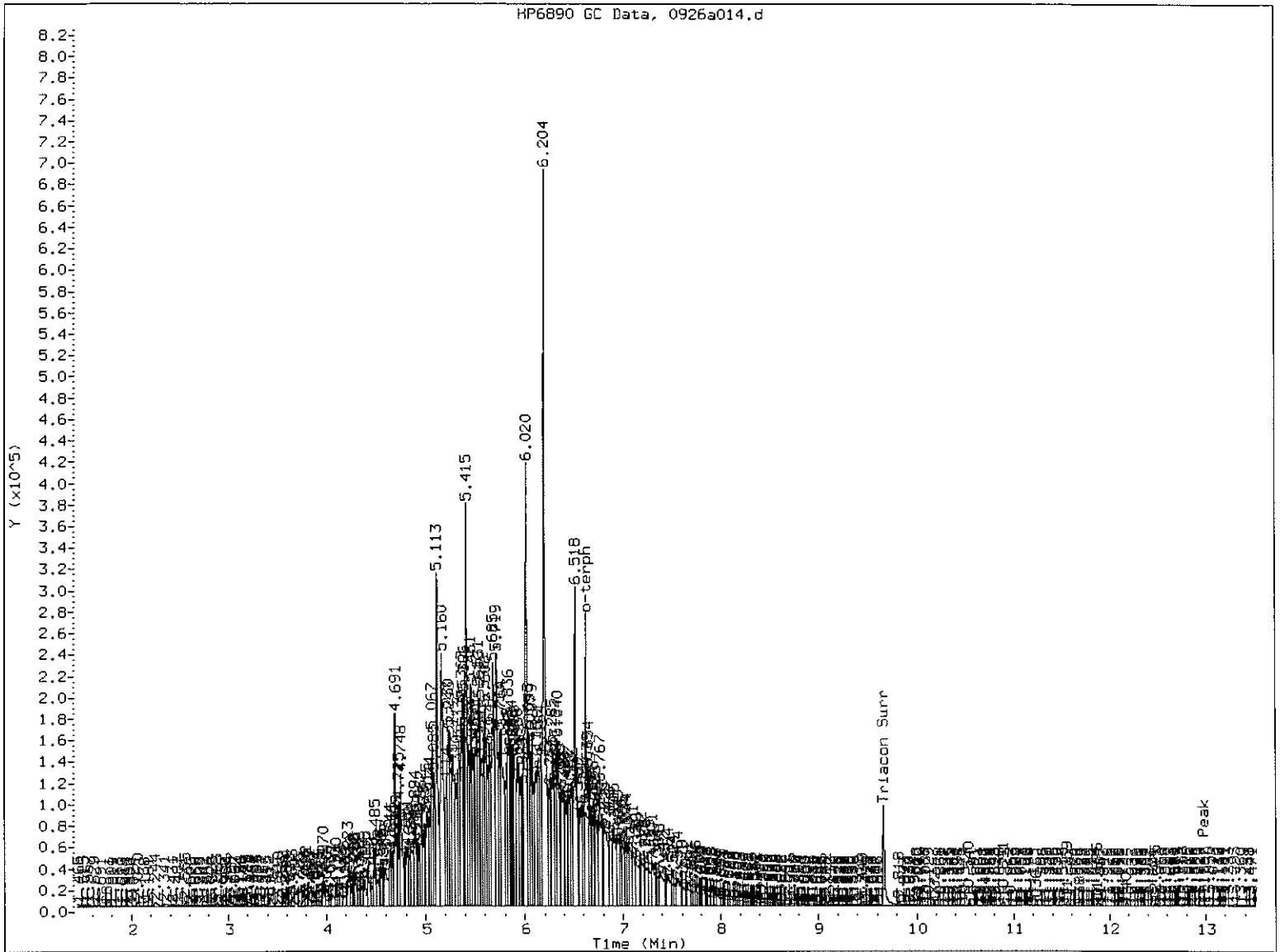
RL-Reporting limit.

Diesel quantitation on total peaks in the range from C12 to C24.

Motor Oil quantitation on total peaks in the range from C24 to C38.

HC ID: DRO/RRO indicate results of organics or additional hydrocarbons in ranges are not identifiable.

HP6890 GC Data, 0926a014.d

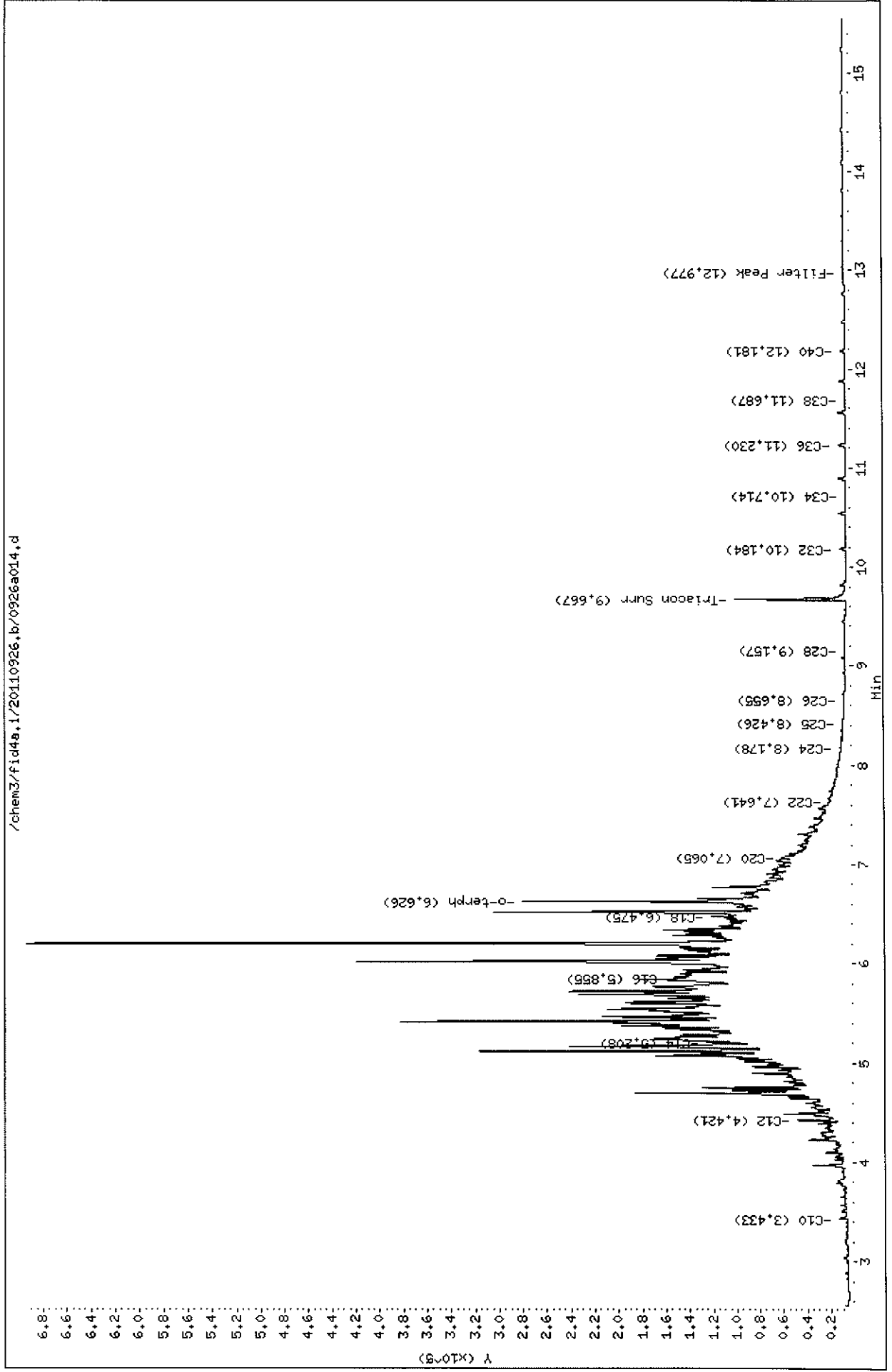


MANUAL INTEGRATION

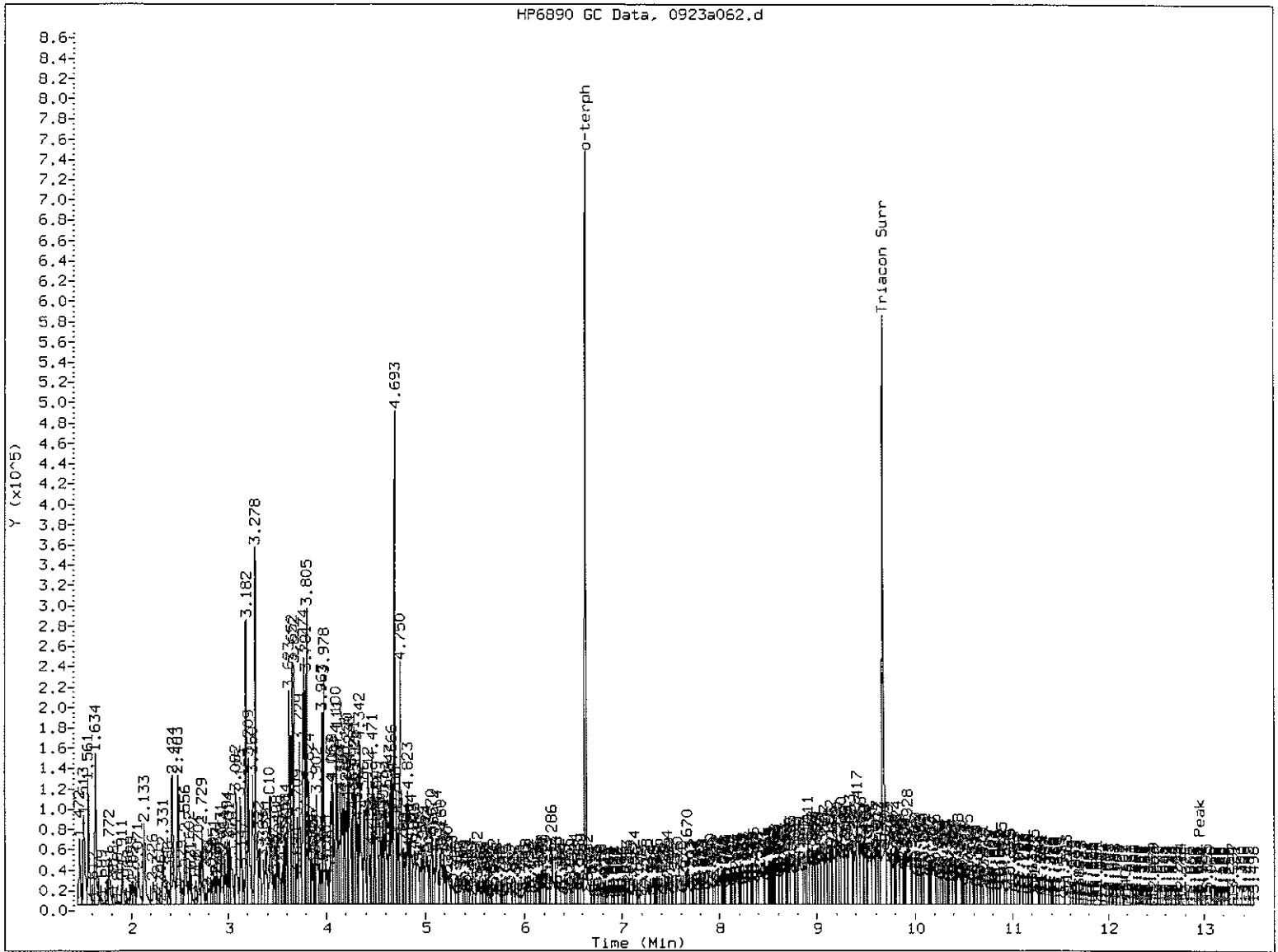
- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other Surr pk overlap

Analyst: AR Date: 9/27/2011

Data File: /chem3/fid4a.i/20110926.b/0926a014.d
Date : 26-SEP-2011 21:49
Client ID: KJ-B38-7
Sample Info: TM91H,5
Column phase: RTX-1
Instrument: fid4a.i
Operator: MS
Column diameter: 0.25



TM91 : 00051



MANUAL INTEGRATION

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

5. Other Surr pk. overlap

Analyst: AR

Date: 9/26/2011

Data File: /chem3/fid4a.i/20110923a.b/0923a062.d

Date: 24-SEP-2011 16:58

Client ID: KJ-B41-6

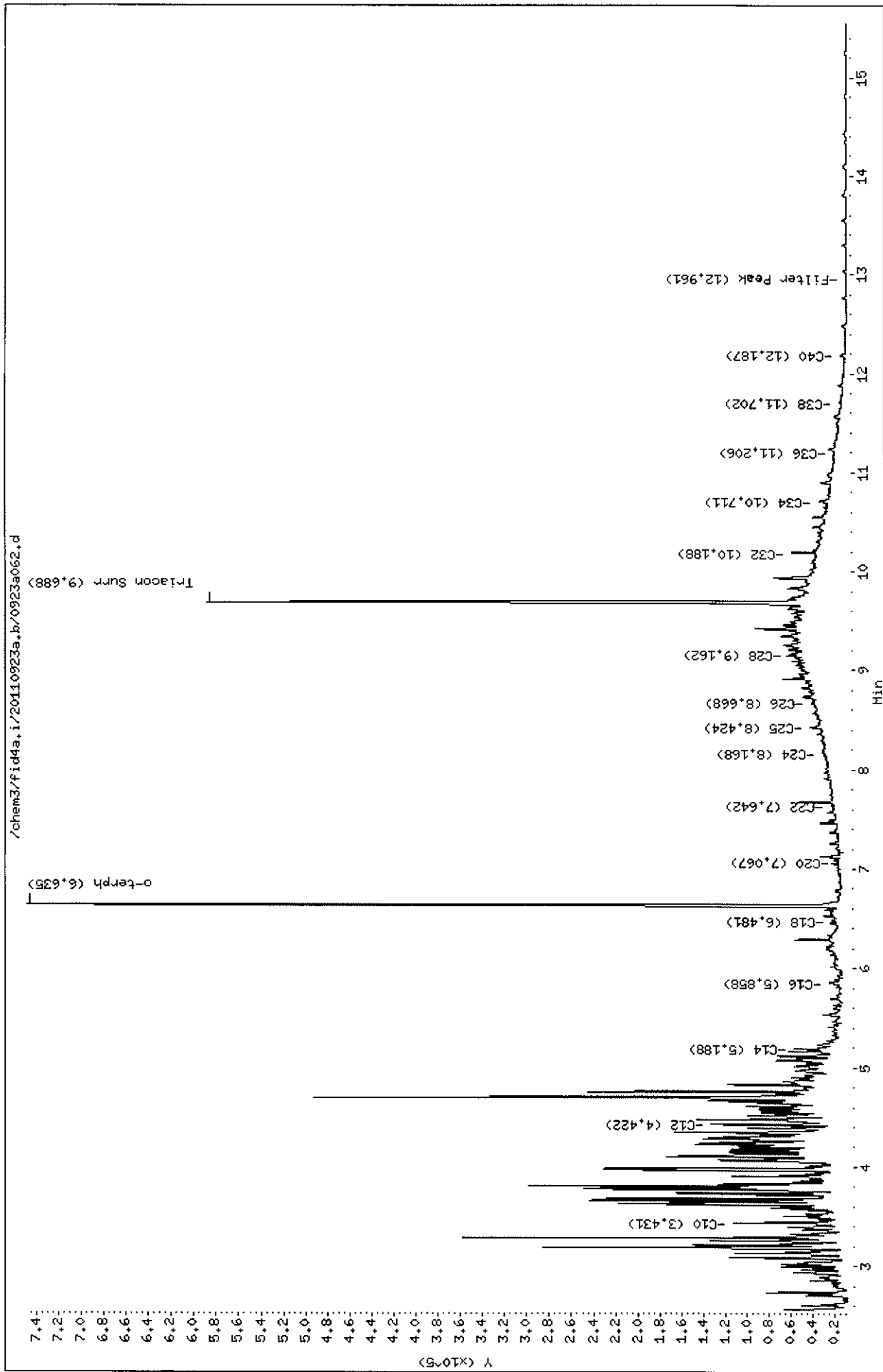
Sample Info: TM91Q

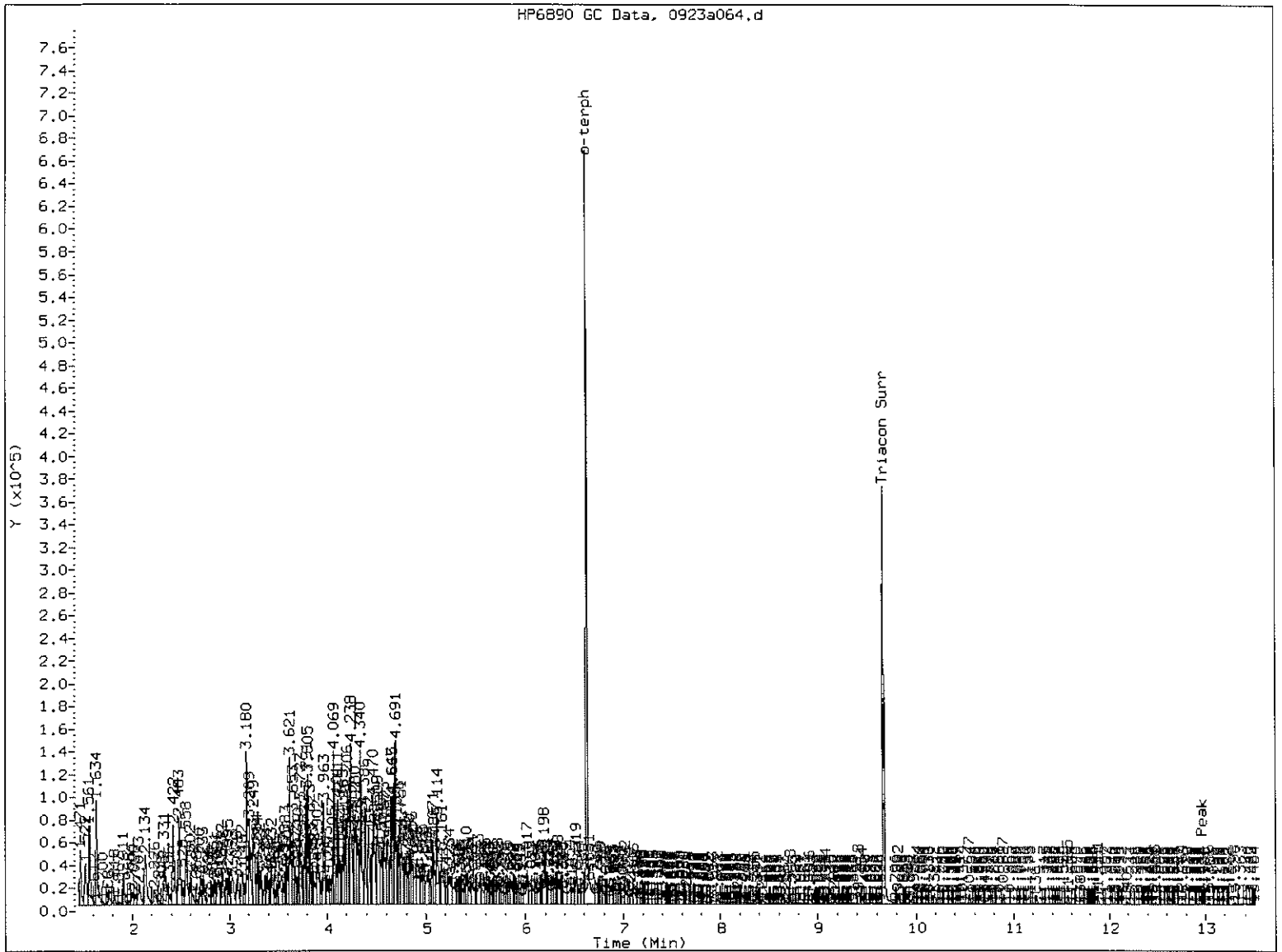
Instrument: fid4a.i

Operator: HS

Column diameter: 0.25

Column phase: RTX-1





MANUAL INTEGRATION

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

5. Other Surr pk overlap

Analyst: AR

Date: 9/24/2011

Data File: /chem3/ftd4a.i/20110923a.b/0923a064.d

Date : 24-SEP-2011 17:45

Client ID: KJ-B43-4

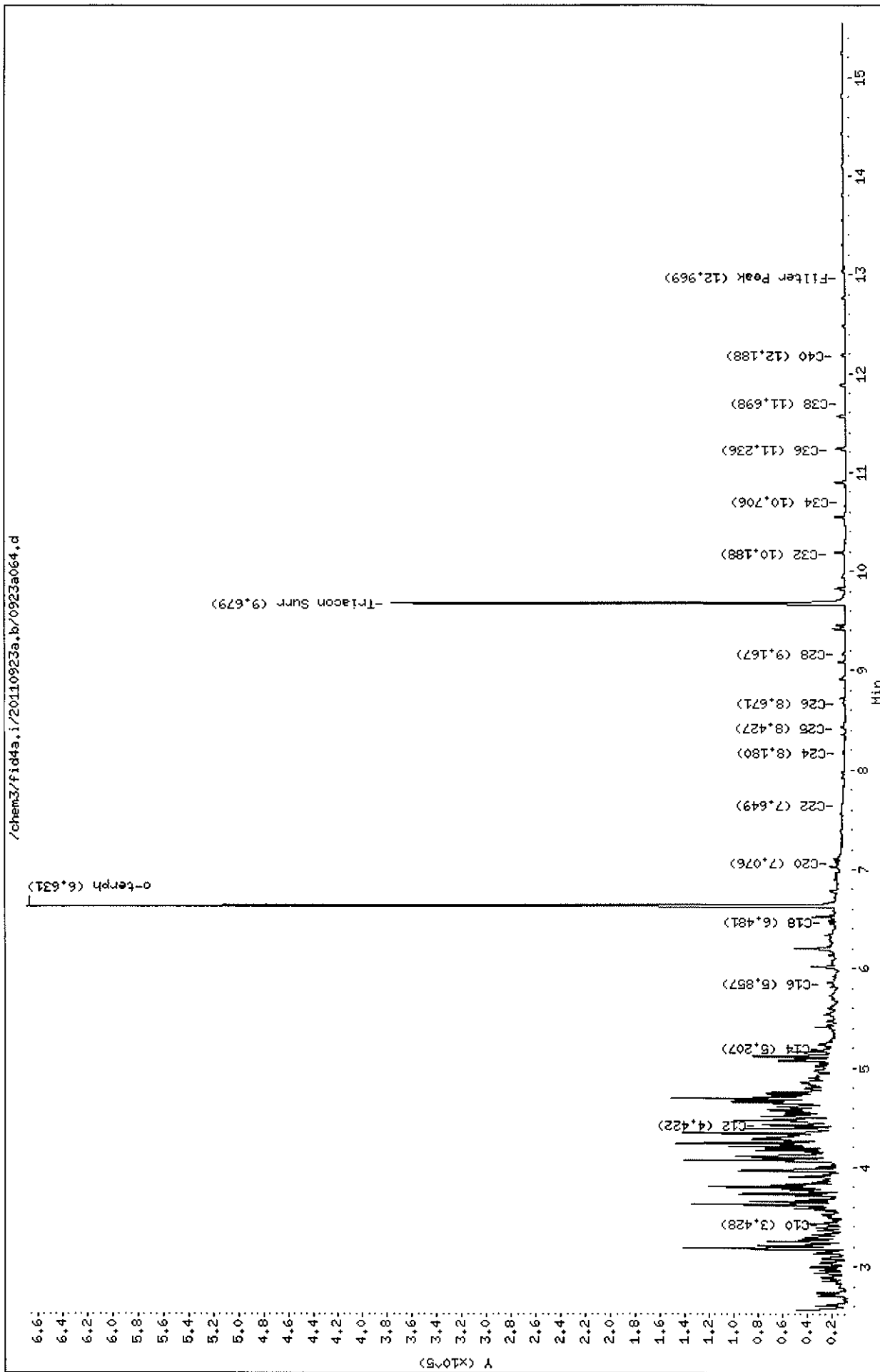
Sample Info: TM91S

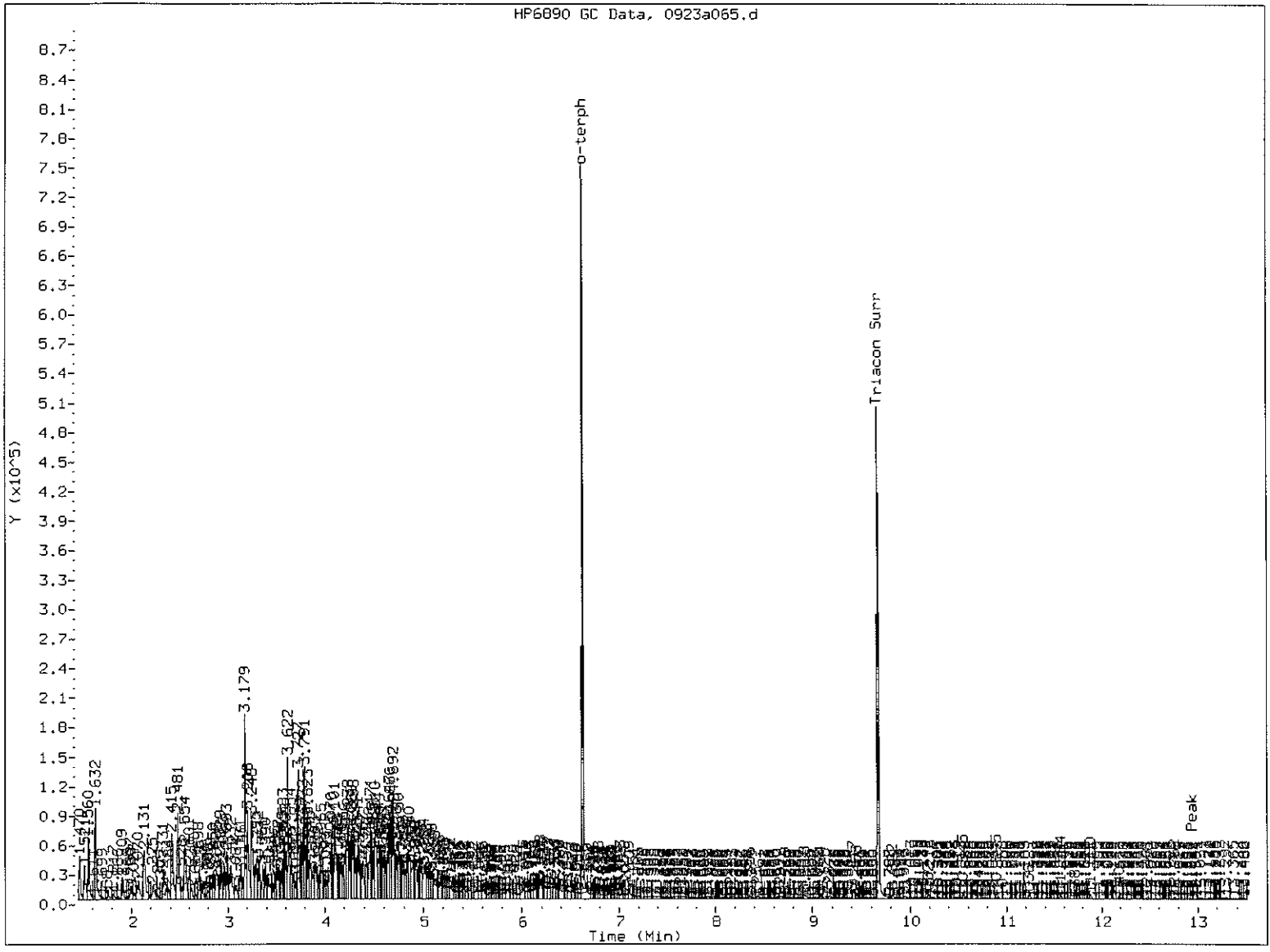
Instrument: ftd4a.i

Operator: MS

Column diameter: 0.25

Column phase: RTX-1





MANUAL INTEGRATION

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

✓ 5. Other Surr pk overlap

Analyst: AR

Date: 9/26/20v

Data File: /chem3/fid4a.i/20110923a.b/0923a065.d

Date : 24-SEP-2011 18:08

Client ID: KJ-B44-4

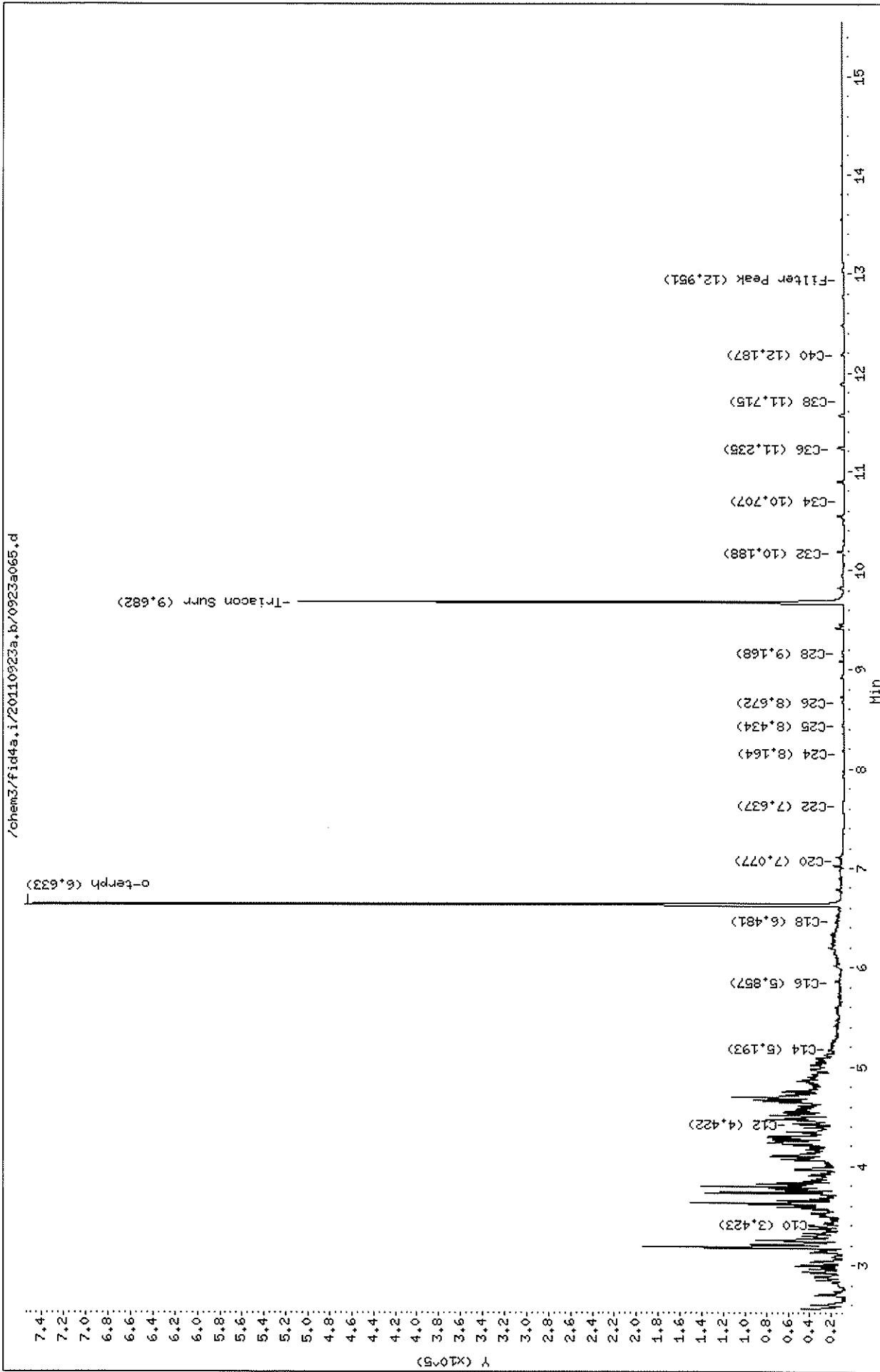
Sample Info: TH91T

Instrument: fid4a.i

Operator: MS

Column diameter: 0.25

Column phase: RTX-1



CLEANED TPHD SURROGATE RECOVERY SUMMARY

Matrix: Soil

QC Report No: TM91-Kennedy Jenks Consultants
Project: Ecology Cornet Bay

<u>Client ID</u>	<u>OTER</u>	<u>TOT OUT</u>
KJ-B33-4	77.9%	0
KJ-MW4-13	87.7%	0
KJ-MW5-12	77.4%	0
MB-092111	89.5%	0
LCS-092111	88.9%	0
KJ-MW6-4	46.2%*	1
KJ-MW6-4 MS	54.7%	0
KJ-MW6-4 MSD	54.7%	0
KJ-MW6-14	81.7%	0
KJ-MW7-5	85.2%	0
KJ-B34-5	62.0%	0
KJ-B35-4	58.0%	0
KJ-B35-8	89.1%	0
KJ-B101	54.6%	0
KJ-B36-8	D	0
KJ-B37-9	77.6%	0
KJ-B38-7	54.1%	0
KJ-B38-13	82.4%	0
KJ-B39-8	82.0%	0
KJ-B40-4	80.3%	0
KJ-B41-6	73.5%	0
KJ-B42-8	81.8%	0
KJ-B43-4	54.7%	0
KJ-B44-4	69.9%	0

LCS/MB LIMITS QC LIMITS

(OTER) = o-Terphenyl

(50-150)

(50-150)

Prep Method: SW3546
Log Number Range: 11-20411 to 11-20430

ORGANICS ANALYSIS DATA SHEET
NWTPHD by GC/FID-Silica and Acid Cleaned
Page 1 of 1

Sample ID: KJ-MW6-4
MS/MSD

Lab Sample ID: TM91D
LIMS ID: 11-20414
Matrix: Soil
Data Release Authorized: *MW*
Reported: 09/27/11

QC Report No: TM91-Kennedy Jenks Consultants
Project: Ecology Cornet Bay
Date Sampled: 09/15/11
Date Received: 09/19/11

Date Extracted MS/MSD: 09/21/11
Date Analyzed MS: 09/26/11 19:30
MSD: 09/26/11 19:53
Instrument/Analyst MS: FID/AAR
MSD: FID/AAR

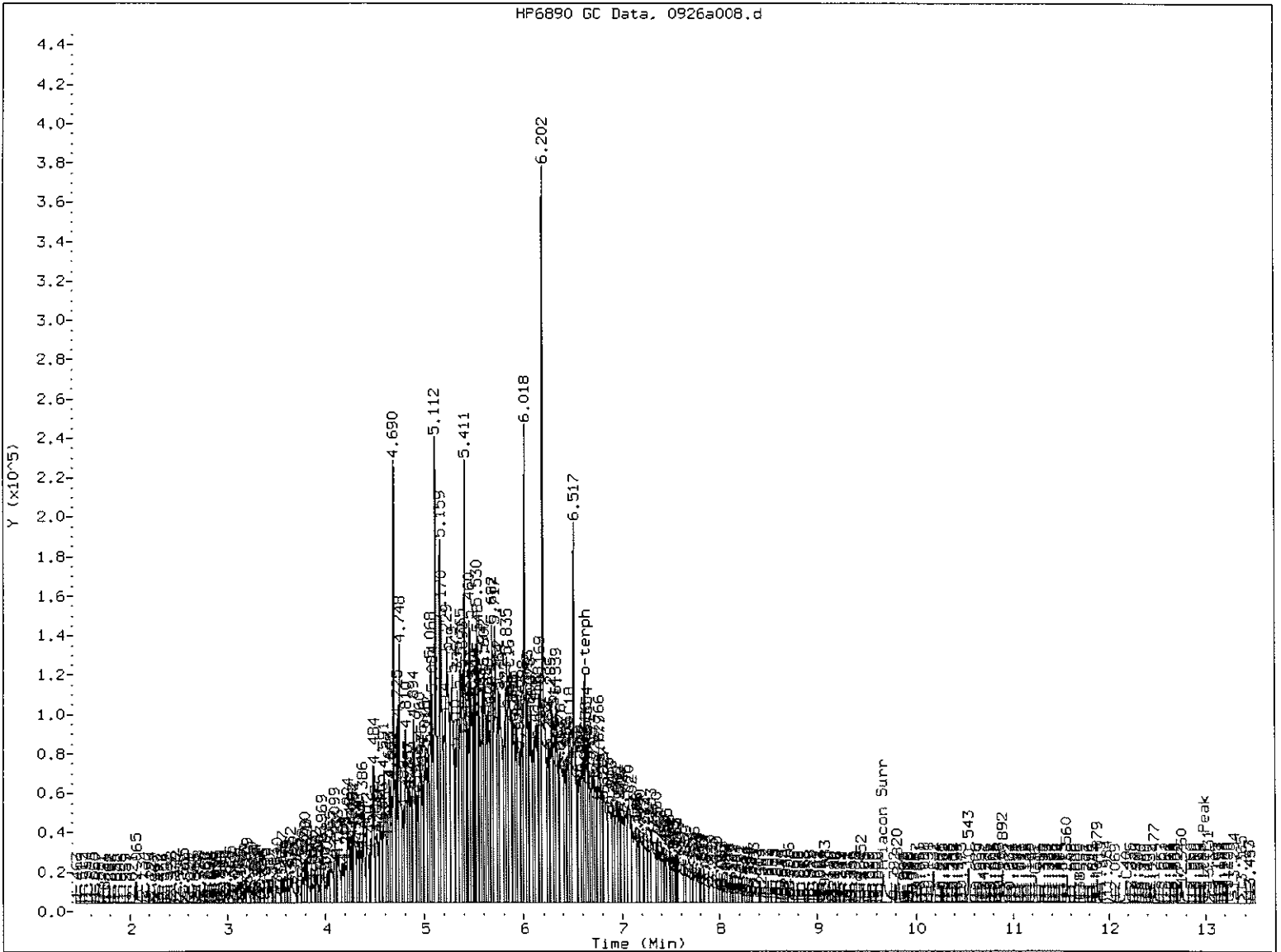
Sample Amount MS: 9.23 g-dry-wt
MSD: 9.46 g-dry-wt
Final Extract Volume MS: 1.0 mL
MSD: 1.0 mL
Dilution Factor MS: 20.0
MSD: 20.0
Percent Moisture: 8.2%

Range	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Diesel	1770	2120	163	NA	1980	159	NA	6.8%

TPHD Surrogate Recovery

	MS	MSD
o-Terphenyl	54.7%	54.7%

Results reported in mg/kg
NA-No recovery due to high concentration of analyte in original sample and/or calculated negative recovery.
RPD calculated using sample concentrations per SW846.



MANUAL INTEGRATION

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

✓ 5. Other Surv pk overlap

Analyst: AR

Date: 9/27/2011

Data File: /chem3/fid4a.i/20110926.b/0926a008.d

Date : 26-SEP-2011 19:30

Client ID: KJ-HM6-4 HS

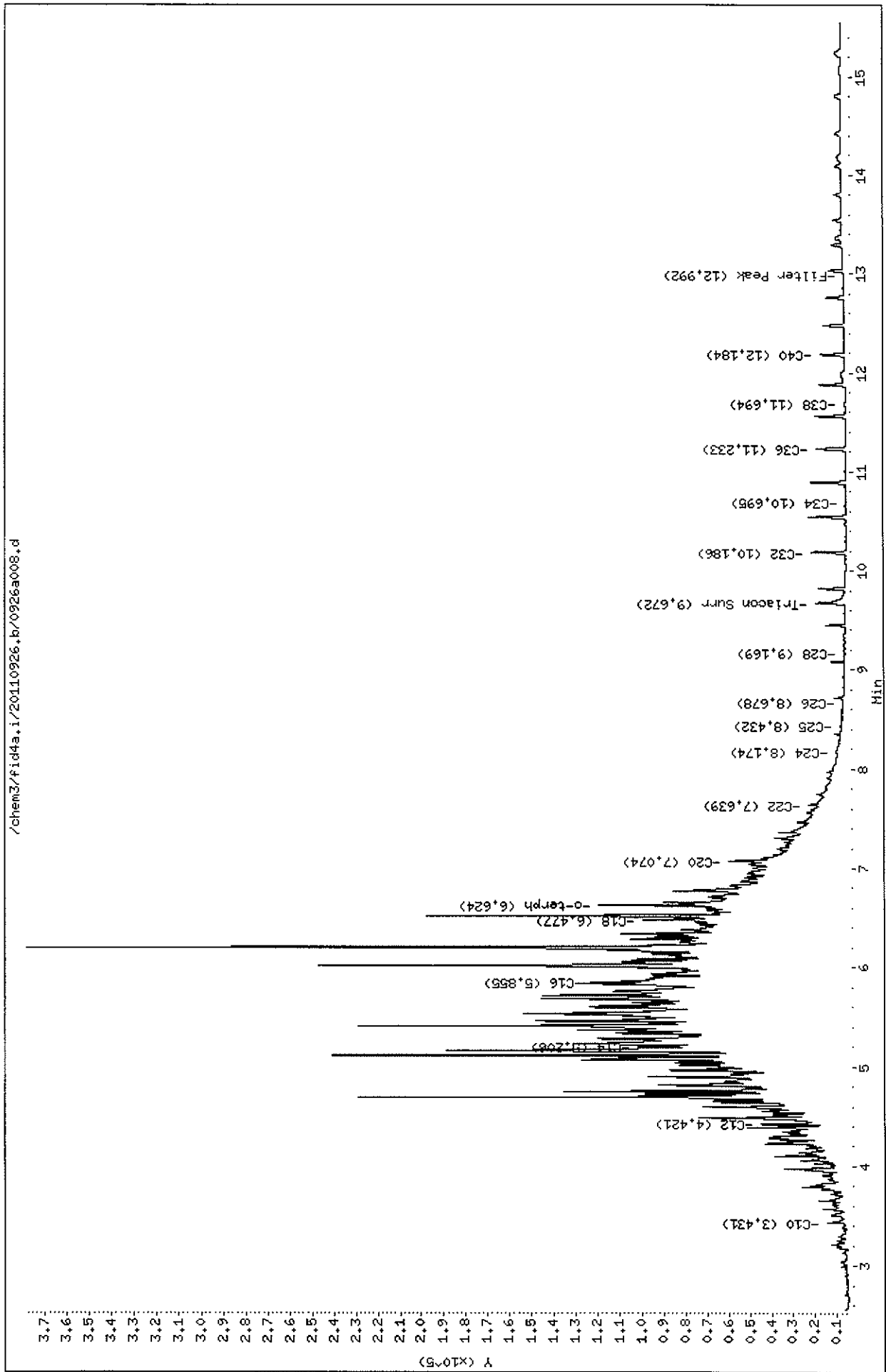
Sample Info: TH91DMS,20

Instrument: fid4a.i

Operator: HS

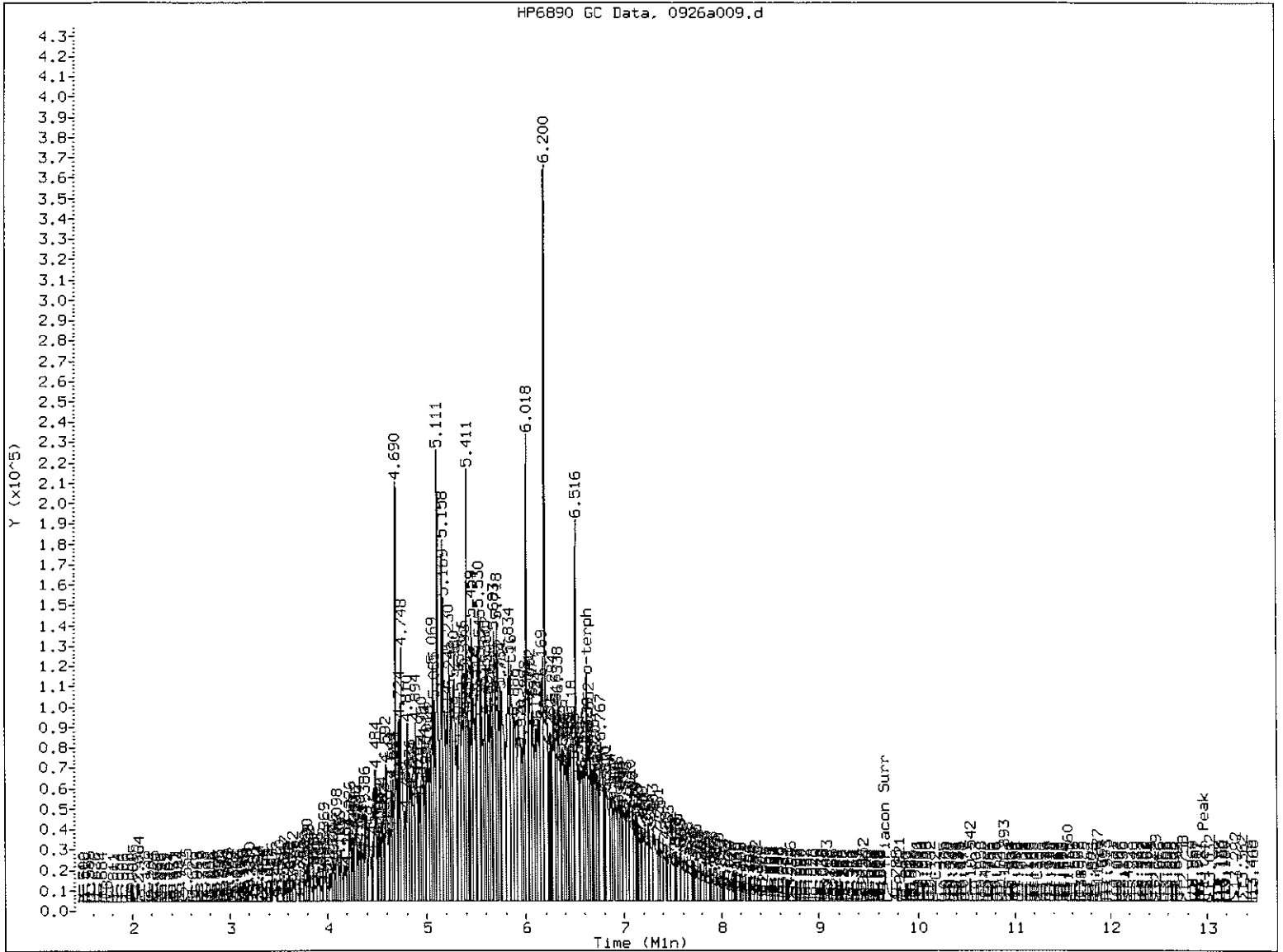
Column diameter: 0.25

Column phase: RTX-1



19000 : 10ML

HP6890 GC Data, 0926a009.d



MANUAL INTEGRATION

1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation
5. other Surr pk overlap

Analyst: AR

Date: 9/27/2011

Data File: /chem3/fid4a.i/20110926.b/0926a009.d

Date : 26-SEP-2011 19:53

Client ID: KJ-HM6-4 HSD

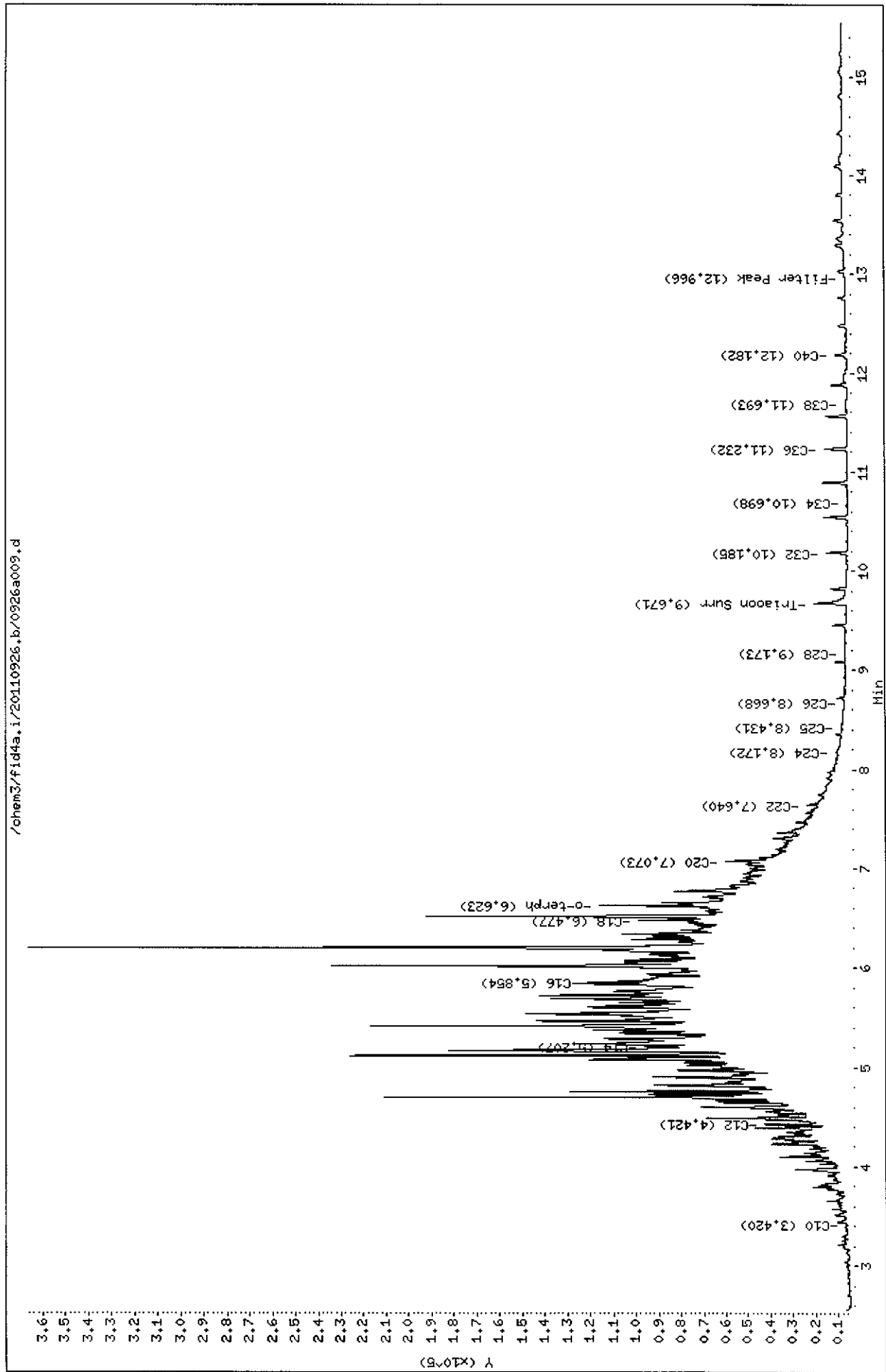
Sample Info: TMS1DHSD,20

Instrument: fid4a.i

Operator: MS

Column diameter: 0.25

Column phase: RTX-1



ORGANICS ANALYSIS DATA SHEET

NWTPHD by GC/FID-Silica and Acid Cleaned

Page 1 of 1

Sample ID: LCS-092111

LAB CONTROL

Lab Sample ID: LCS-092111

LIMS ID: 11-20414

Matrix: Soil

Data Release Authorized: *MM*

Reported: 09/27/11

QC Report No: TM91-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Date Sampled: 09/15/11

Date Received: 09/19/11

Date Extracted: 09/21/11

Date Analyzed: 09/24/11 08:52

Instrument/Analyst: FID/AAR

Sample Amount: 10.0 g

Final Extract Volume: 1.0 mL

Dilution Factor: 1.0

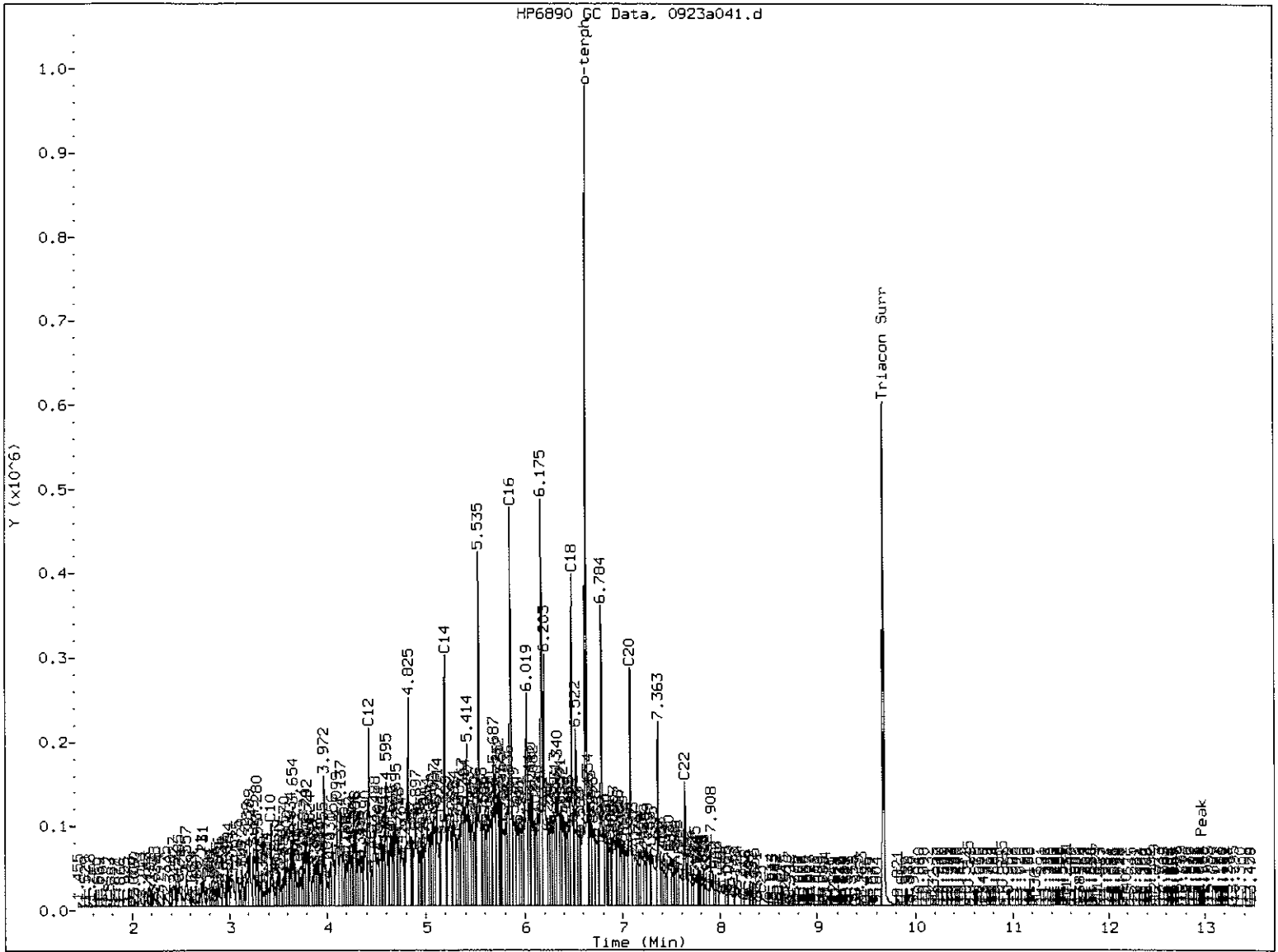
Range	Lab Control	Spike Added	Recovery
Diesel	130	150	86.7%

TPHD Surrogate Recovery

o-Terphenyl	88.9%
-------------	-------

Results reported in mg/kg

HP6890 GC Data, 0923a041.d



MANUAL INTEGRATION

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

5. Other Surr pk. overlap

Analyst: AR

Date: 9/26/2011

ORGANICS ANALYSIS DATA SHEET
 BETX by Method SW8021BMod
 TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: MB-092711
 METHOD BLANK

Lab Sample ID: MB-092711
 LIMS ID: 11-20411
 Matrix: Soil
 Data Release Authorized: *UTB*
 Reported: 09/30/11

QC Report No: TM91-Kennedy Jenks Consultants
 Project: Ecology Cornet Bay
 Event: NA
 Date Sampled: NA
 Date Received: NA

Date Analyzed: 09/27/11 14:58
 Instrument/Analyst: PID2/MH

Purge Volume: 5.0 mL
 Sample Amount: 100 mg-dry-wt

CAS Number	Analyte	RL	Result
71-43-2	Benzene	12	< 12 U
108-88-3	Toluene	12	< 12 U
100-41-4	Ethylbenzene	12	< 12 U
179601-23-1	m,p-Xylene	25	< 25 U
95-47-6	o-Xylene	12	< 12 U

Gasoline Range Hydrocarbons	5.0	< 5.0 U	GAS ID ---
-----------------------------	-----	---------	---------------

BETX Surrogate Recovery

Trifluorotoluene	97.3%
Bromobenzene	99.6%

Gasoline Surrogate Recovery

Trifluorotoluene	97.7%
Bromobenzene	99.6%

BETX values reported in µg/kg (ppb)
 Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: KJ-B33-4

SAMPLE

Lab Sample ID: TM91A

LIMS ID: 11-20411

Matrix: Soil

Data Release Authorized: *WJ*

Reported: 09/30/11

QC Report No: TM91-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Event: NA

Date Sampled: 09/15/11

Date Received: 09/19/11

Date Analyzed: 09/27/11 16:35

Instrument/Analyst: PID2/MH

Purge Volume: 5.0 mL

Sample Amount: 87 mg-dry-wt

Percent Moisture: 9.4%

CAS Number	Analyte	RL	Result
71-43-2	Benzene	14	73
108-88-3	Toluene	14	< 14 U
100-41-4	Ethylbenzene	14	< 14 U
179601-23-1	m,p-Xylene	29	< 29 U
95-47-6	o-Xylene	14	< 14 U

Gasoline Range Hydrocarbons	5.7	< 5.7 U	GAS ID ---
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BETX Surrogate Recovery

Trifluorotoluene	97.2%
Bromobenzene	97.3%

Gasoline Surrogate Recovery

Trifluorotoluene	94.4%
Bromobenzene	93.3%

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

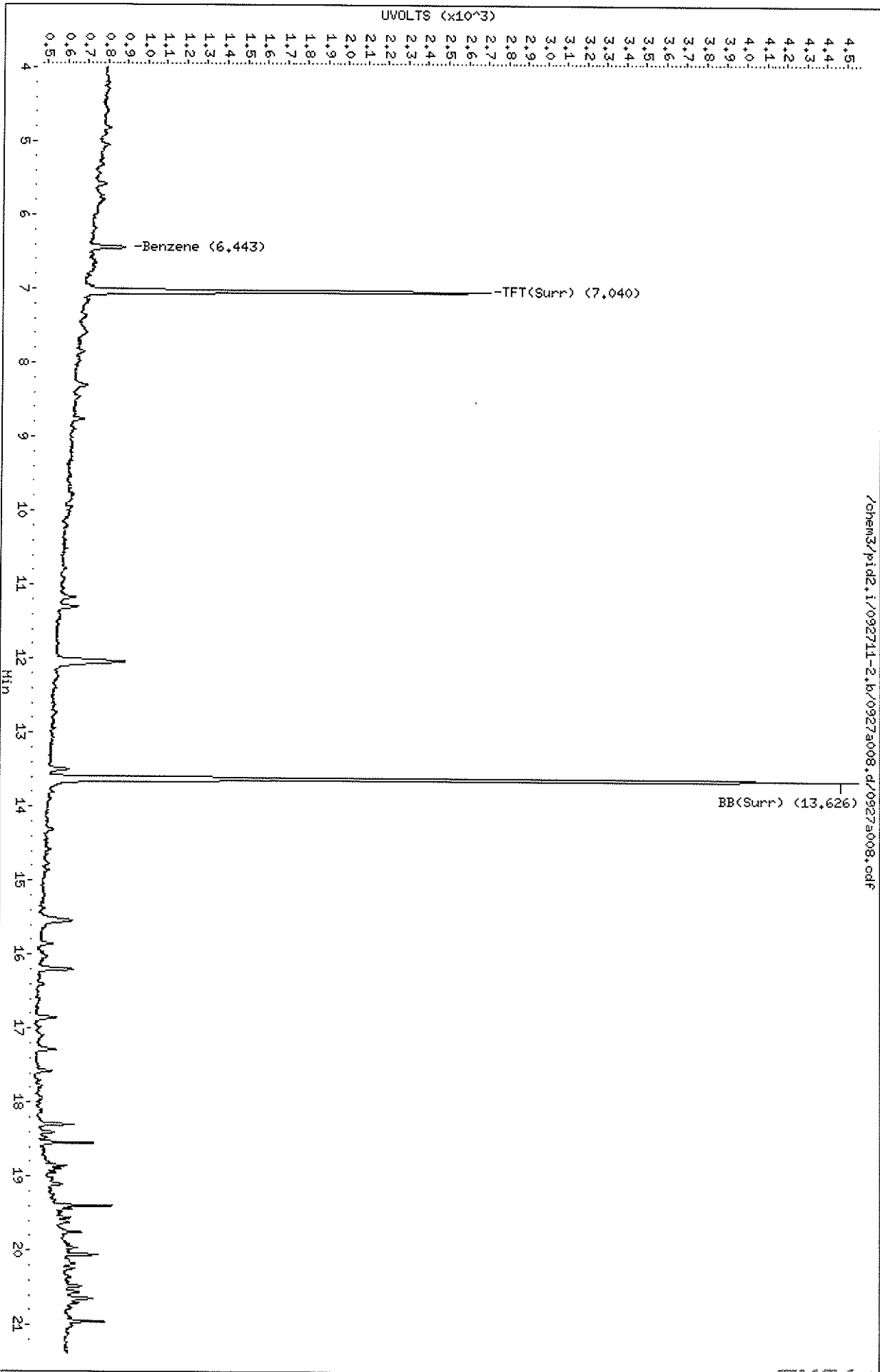
Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

Data File: /ohem3/pid2.i/092711-2.b/0927a008.d
Date : 27-SEP-2011 16:35
Client ID: KJ-B33-4
Sample Info: TM91A

Column phase: RTX 502-2 PID

Instrument: pid2.i
Operator: HS
Column diameter: 0.18



ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: KJ-MW4-13
SAMPLE

Lab Sample ID: TM91B

LIMS ID: 11-20412

Matrix: Soil

Data Release Authorized: *VD*

Reported: 09/30/11

QC Report No: TM91-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Event: NA

Date Sampled: 09/15/11

Date Received: 09/19/11

Date Analyzed: 09/27/11 17:02

Instrument/Analyst: PID2/MH

Purge Volume: 5.0 mL

Sample Amount: 87 mg-dry-wt

Percent Moisture: 16.9%

CAS Number	Analyte	RL	Result
71-43-2	Benzene	14	< 14 U
108-88-3	Toluene	14	< 14 U
100-41-4	Ethylbenzene	14	< 14 U
179601-23-1	m,p-Xylene	29	< 29 U
95-47-6	o-Xylene	14	< 14 U

Gasoline Range Hydrocarbons	5.8	< 5.8 U	GAS ID ---
-----------------------------	-----	---------	---------------

BETX Surrogate Recovery

Trifluorotoluene	104%
Bromobenzene	103%

Gasoline Surrogate Recovery

Trifluorotoluene	99.3%
Bromobenzene	99.9%

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

Data File: /chem3/pid2.i/092711-1.b/09273009.d

Date: 27-SEP-2011 17:02

Client ID: KJ-MM4-13

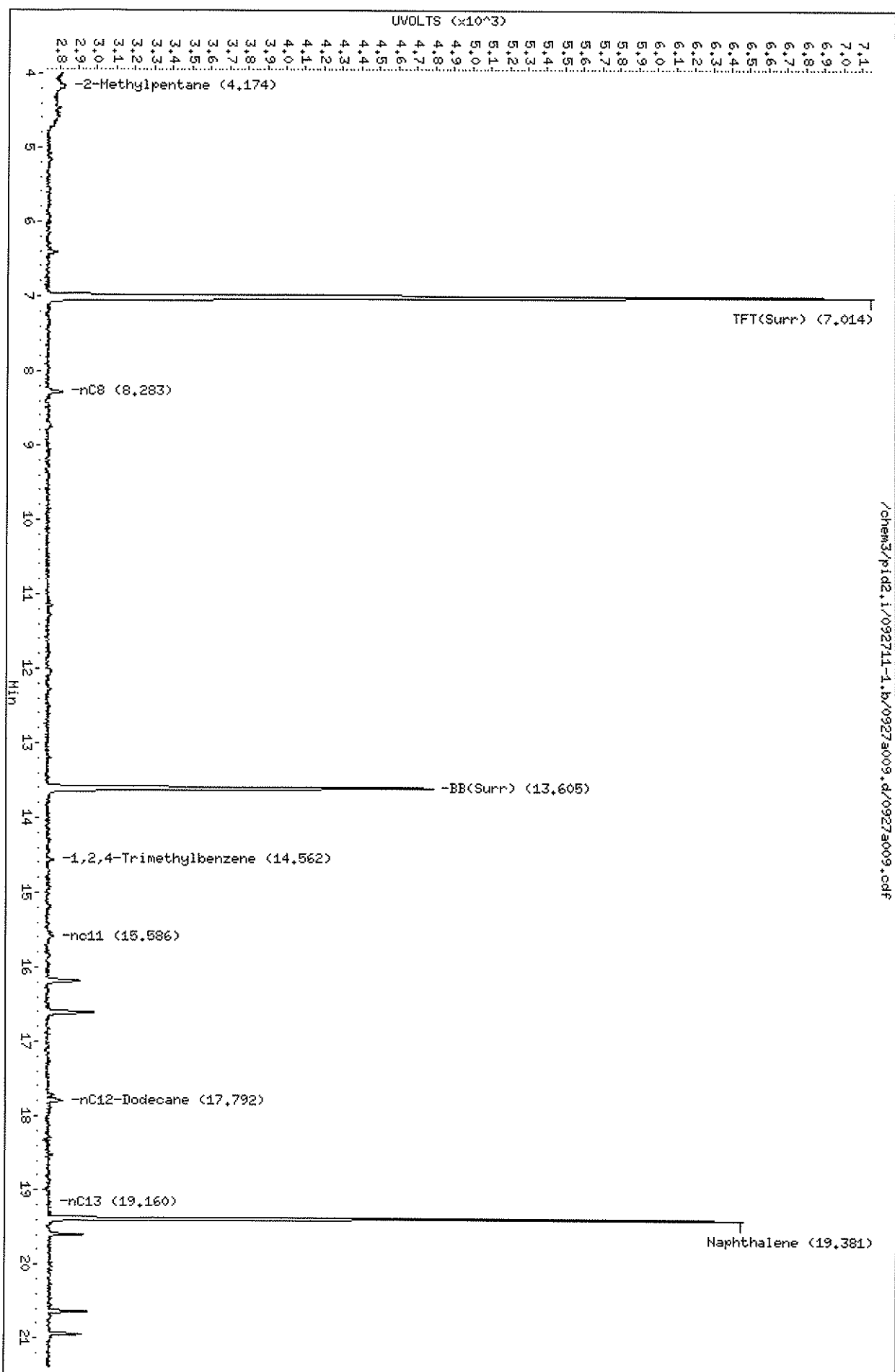
Sample Info: TH91B

Column phase: RTX 502-2 FID

Instrument: pid2.i

Operator: HS

Column diameter: 0.18

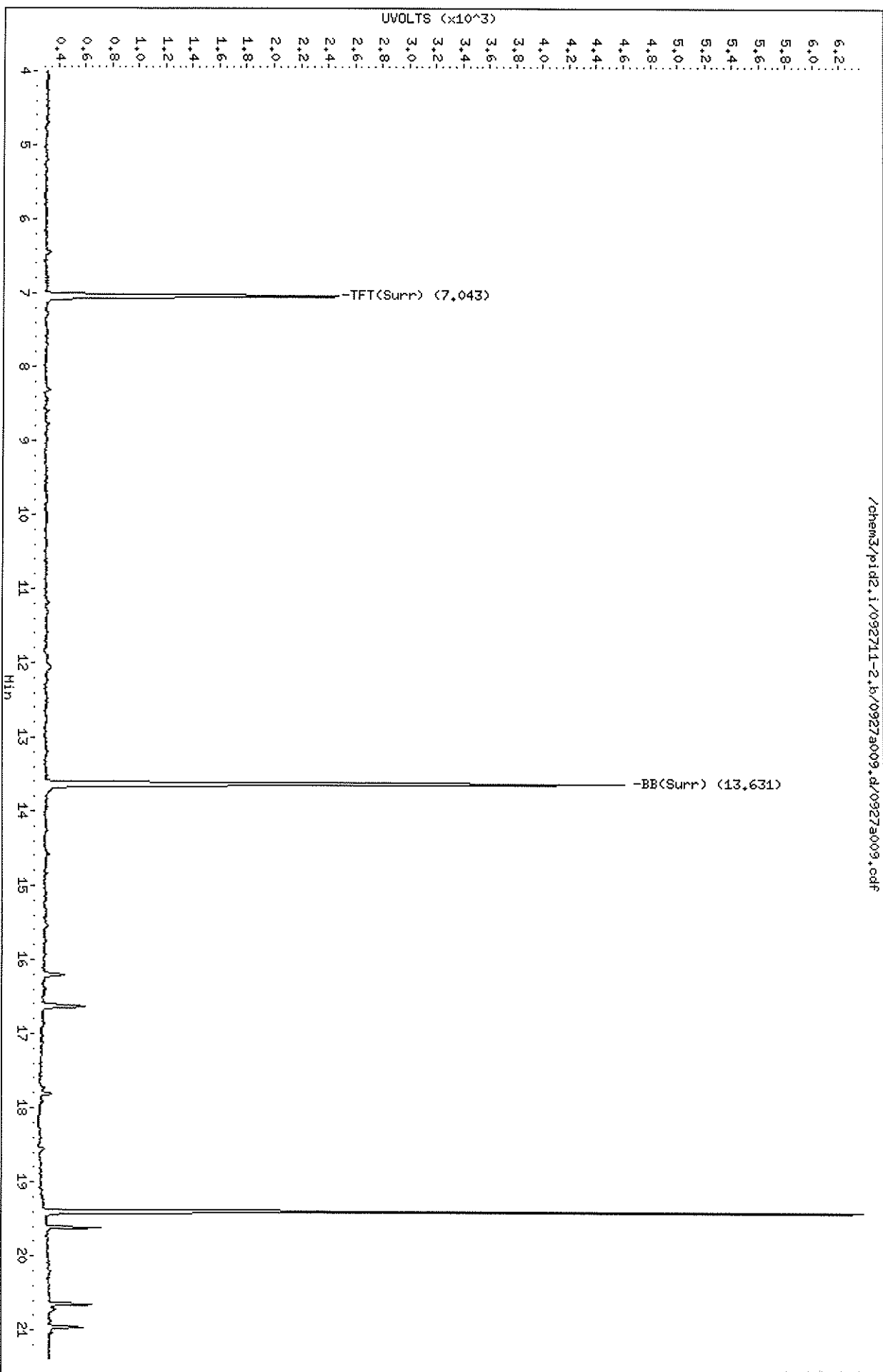


11 10 9 8 7 6 5 4 3 2 1

Data File: /chem3/pid2.i/092711-2.b/0927a009.d
Date: 27-SEP-2011 17:02
Client ID: KJ-HM4-13
Sample Info: TH91B

Column phase: RTX 502-2 PID

Instrument: pid2.i
Operator: HS
Column diameter: 0.18



/chem3/pid2.i/092711-2.b/0927a009.d/0927a009.cdf

19 09 27 17 02 13

ORGANICS ANALYSIS DATA SHEET
 BETX by Method SW8021BMod
 TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: KJ-MW5-12
 SAMPLE

Lab Sample ID: TM91C
 LIMS ID: 11-20413
 Matrix: Soil
 Data Release Authorized: *VD*
 Reported: 09/30/11

QC Report No: TM91-Kennedy Jenks Consultants
 Project: Ecology Cornet Bay
 Event: NA
 Date Sampled: 09/15/11
 Date Received: 09/19/11

Date Analyzed: 09/27/11 17:30
 Instrument/Analyst: PID2/MH

Purge Volume: 5.0 mL
 Sample Amount: 74 mg-dry-wt
 Percent Moisture: 20.5%

CAS Number	Analyte	RL	Result
71-43-2	Benzene	17	< 17 U
108-88-3	Toluene	17	< 17 U
100-41-4	Ethylbenzene	17	< 17 U
179601-23-1	m,p-Xylene	34	< 34 U
95-47-6	o-Xylene	17	< 17 U

Gasoline Range Hydrocarbons	6.8	11	GAS ID GRO
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BETX Surrogate Recovery

Trifluorotoluene	102%
Bromobenzene	105%

Gasoline Surrogate Recovery

Trifluorotoluene	99.4%
Bromobenzene	100%

BETX values reported in µg/kg (ppb)
 Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

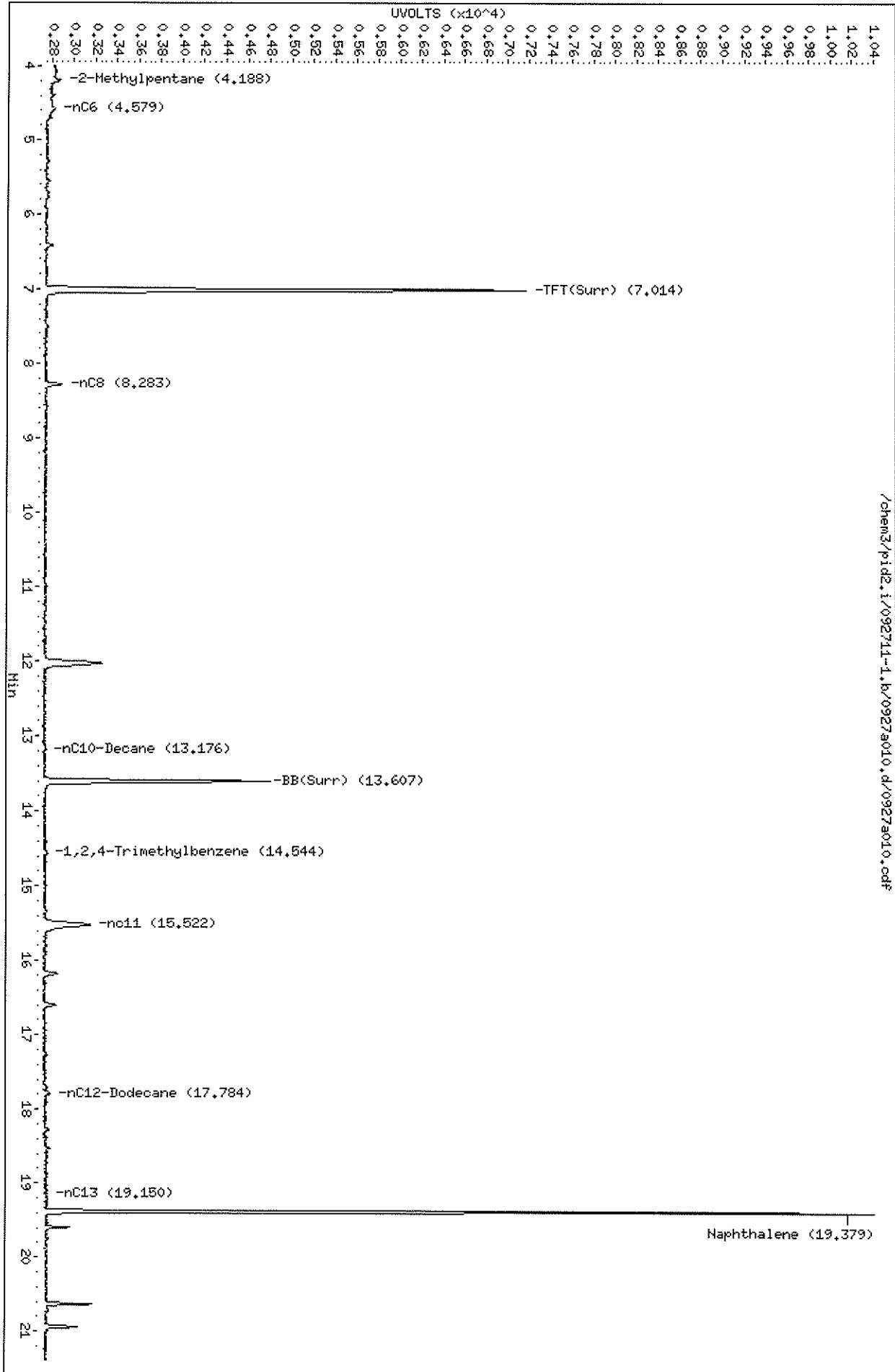
Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

Data File: /chem3/pid2.i/092711-1.b/0927a010.d
Date: 27-SEP-2011 17:30
Client ID: KJ-HMS-12
Sample Info: TH91C

Column phase: RTX 502-2 FID

Instrument: pid2.i
Operator: HS
Column diameter: 0.18

/chem3/pid2.i/092711-1.b/0927a010.d/0927a010.pdf



TH91C: 092711

Data File: /chem3/pid2.i/092711-2.b/0927a010.d

Date: 27-SEP-2011 17:30

Client ID: KJ-HMS-12

Sample Info: TH91C

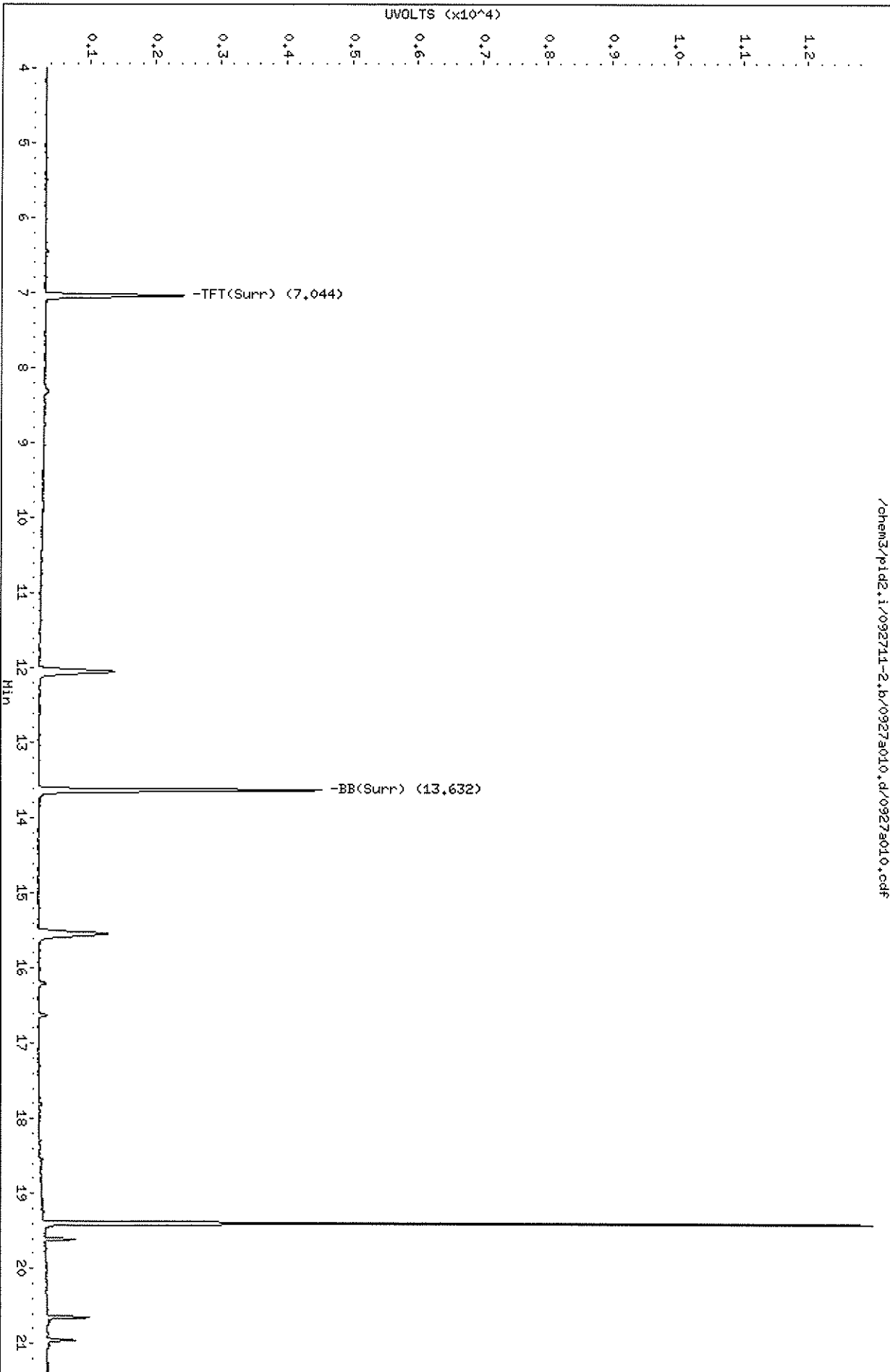
Column phase: RTX 502-2 PID

Instrument: pid2.i

Operator: HS

Column diameter: 0.18

/chem3/pid2.i/092711-2.b/0927a010.d/0927a010.cdf



092711-2.b/0927a010.cdf

ORGANICS ANALYSIS DATA SHEET
 BETX by Method SW8021BMod
 TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: KJ-MW6-4
 SAMPLE

Lab Sample ID: TM91D
 LIMS ID: 11-20414
 Matrix: Soil
 Data Release Authorized: *VD*
 Reported: 09/30/11

QC Report No: TM91-Kennedy Jenks Consultants
 Project: Ecology Cornet Bay
 Event: NA
 Date Sampled: 09/15/11
 Date Received: 09/19/11

Date Analyzed: 09/27/11 17:58
 Instrument/Analyst: PID2/MH

Purge Volume: 5.0 mL
 Sample Amount: 10 mg-dry-wt
 Percent Moisture: 8.2%

CAS Number	Analyte	RL	Result	
71-43-2	Benzene	120	< 120 U	
108-88-3	Toluene	120	< 120 U	
100-41-4	Ethylbenzene	120	2,100	
179601-23-1	m,p-Xylene	250	< 250 U	
95-47-6	o-Xylene	120	< 120 U	
Gasoline Range Hydrocarbons		49	1,300	GAS ID GRO
BETX Surrogate Recovery				
	Trifluorotoluene	101%		
	Bromobenzene	101%		
Gasoline Surrogate Recovery				
	Trifluorotoluene	99.6%		
	Bromobenzene	112%		

BETX values reported in µg/kg (ppb)
 Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

Data File: /chem3/pid2.i/092711-2.b/0927a011.d

Date: 27-SEP-2011 17:58

Client ID: KJ-HW6-4

Sample Info: TH91D

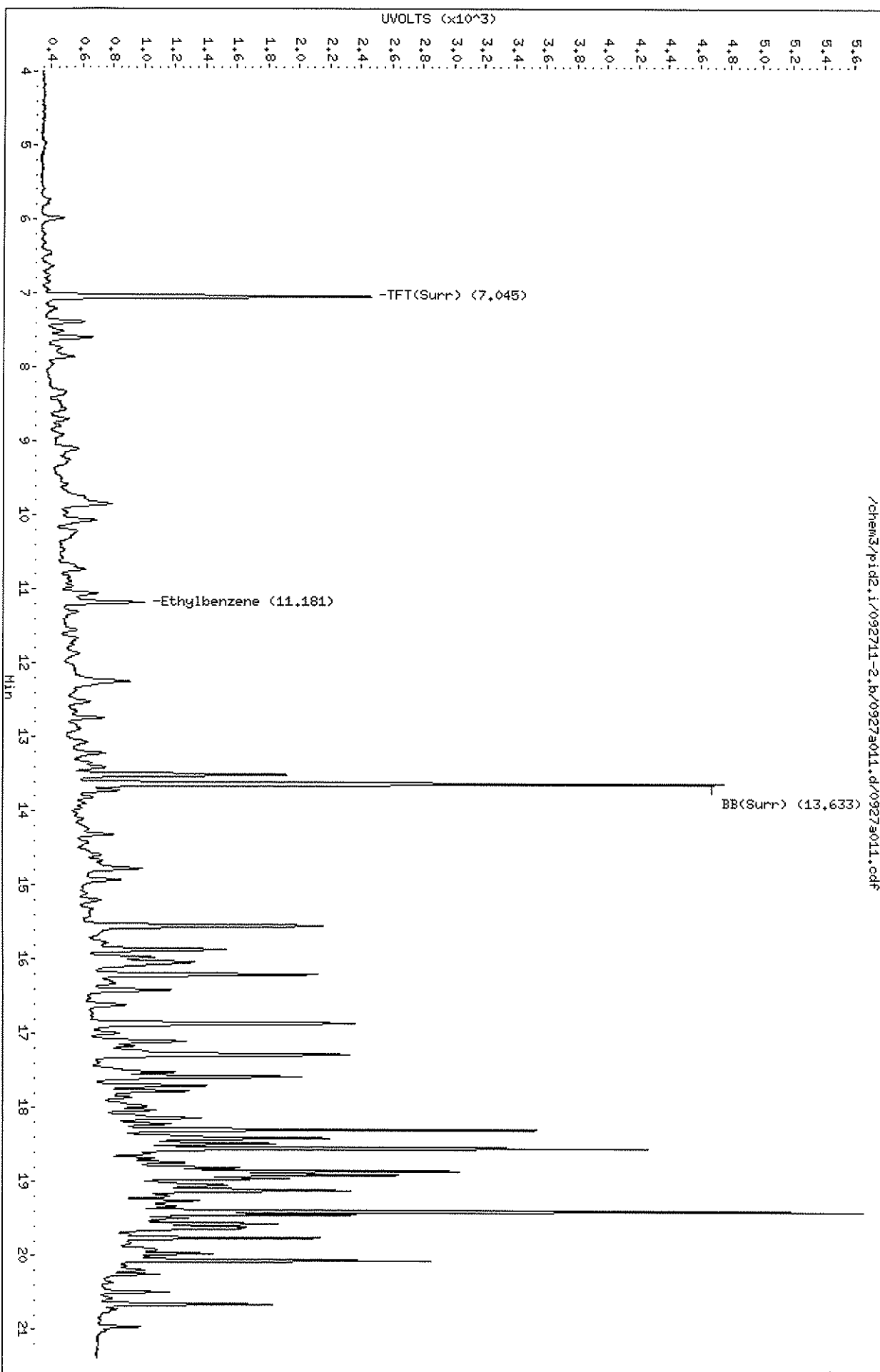
Column phase: RTX 502-2 PID

Instrument: pid2.i

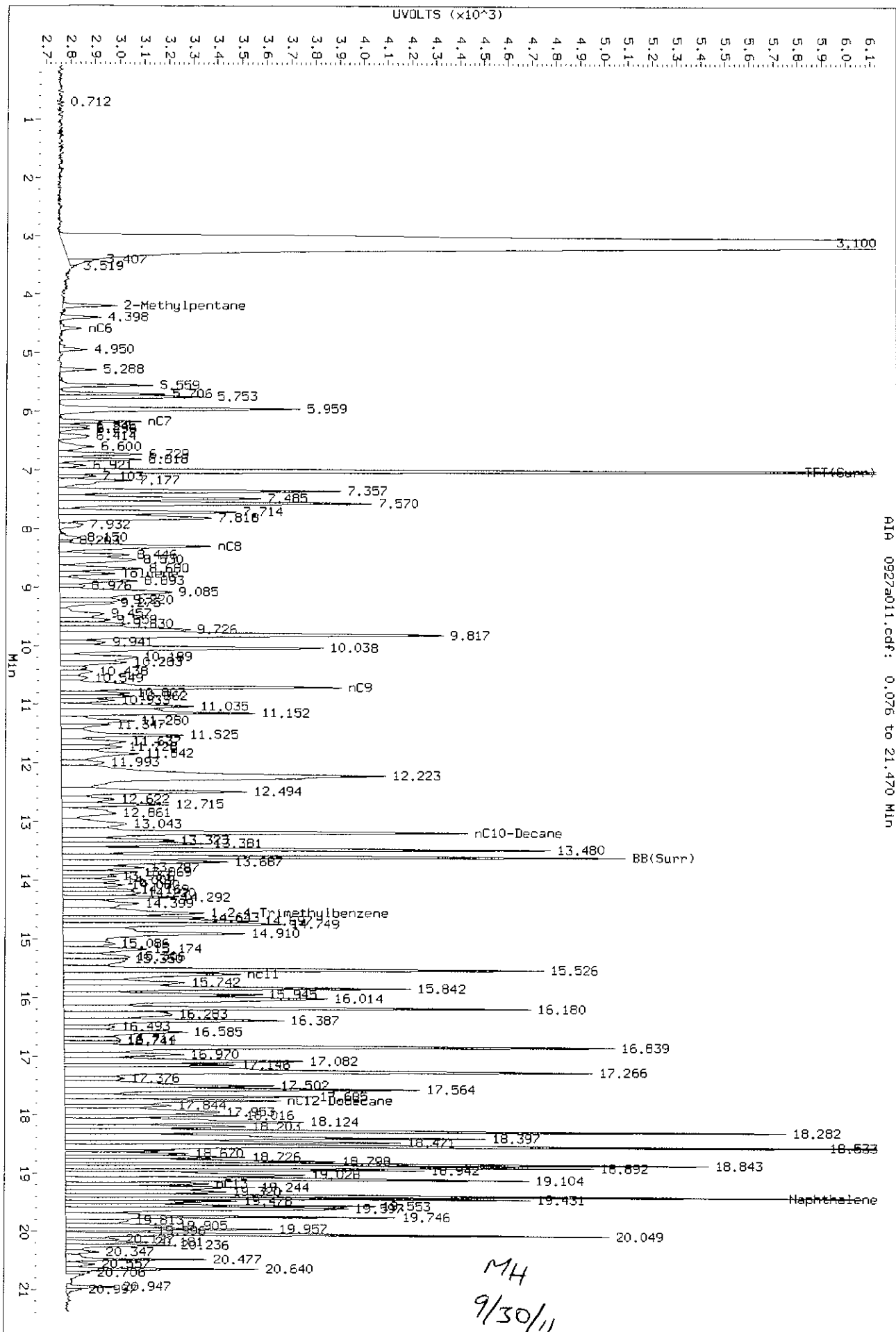
Operator: MS

Column diameter: 0.18

/chem3/pid2.i/092711-2.b/0927a011.d/0927a011.cdf



Data File: /chem3/pid2.1/092711-1.b/0927a011.d/0927a011.cdf
Injection Date: 27-SEP-2011 17:58
Instrument: pid2.1
Client Sample ID: KJ-MW6-4



AIA 0927a011.cdf: 0.076 to 21.470 MIN

ORGANICS ANALYSIS DATA SHEET
 BETX by Method SW8021BMod
 TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: KJ-MW6-14
 SAMPLE

Lab Sample ID: TM91E
 LIMS ID: 11-20415
 Matrix: Soil
 Data Release Authorized: **VD**
 Reported: 09/30/11

QC Report No: TM91-Kennedy Jenks Consultants
 Project: Ecology Cornet Bay
 Event: NA
 Date Sampled: 09/15/11
 Date Received: 09/19/11

Date Analyzed: 09/27/11 18:26
 Instrument/Analyst: PID2/MH

Purge Volume: 5.0 mL
 Sample Amount: 83 mg-dry-wt
 Percent Moisture: 17.3%

CAS Number	Analyte	RL	Result	
71-43-2	Benzene	15	< 15 U	
108-88-3	Toluene	15	< 15 U	
100-41-4	Ethylbenzene	15	< 15 U	
179601-23-1	m,p-Xylene	30	< 30 U	
95-47-6	o-Xylene	15	< 15 U	
	Gasoline Range Hydrocarbons	6.0	< 6.0 U	GAS ID ---

BETX Surrogate Recovery

Trifluorotoluene	93.0%
Bromobenzene	94.9%

Gasoline Surrogate Recovery

Trifluorotoluene	96.2%
Bromobenzene	96.8%

BETX values reported in µg/kg (ppb)
 Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

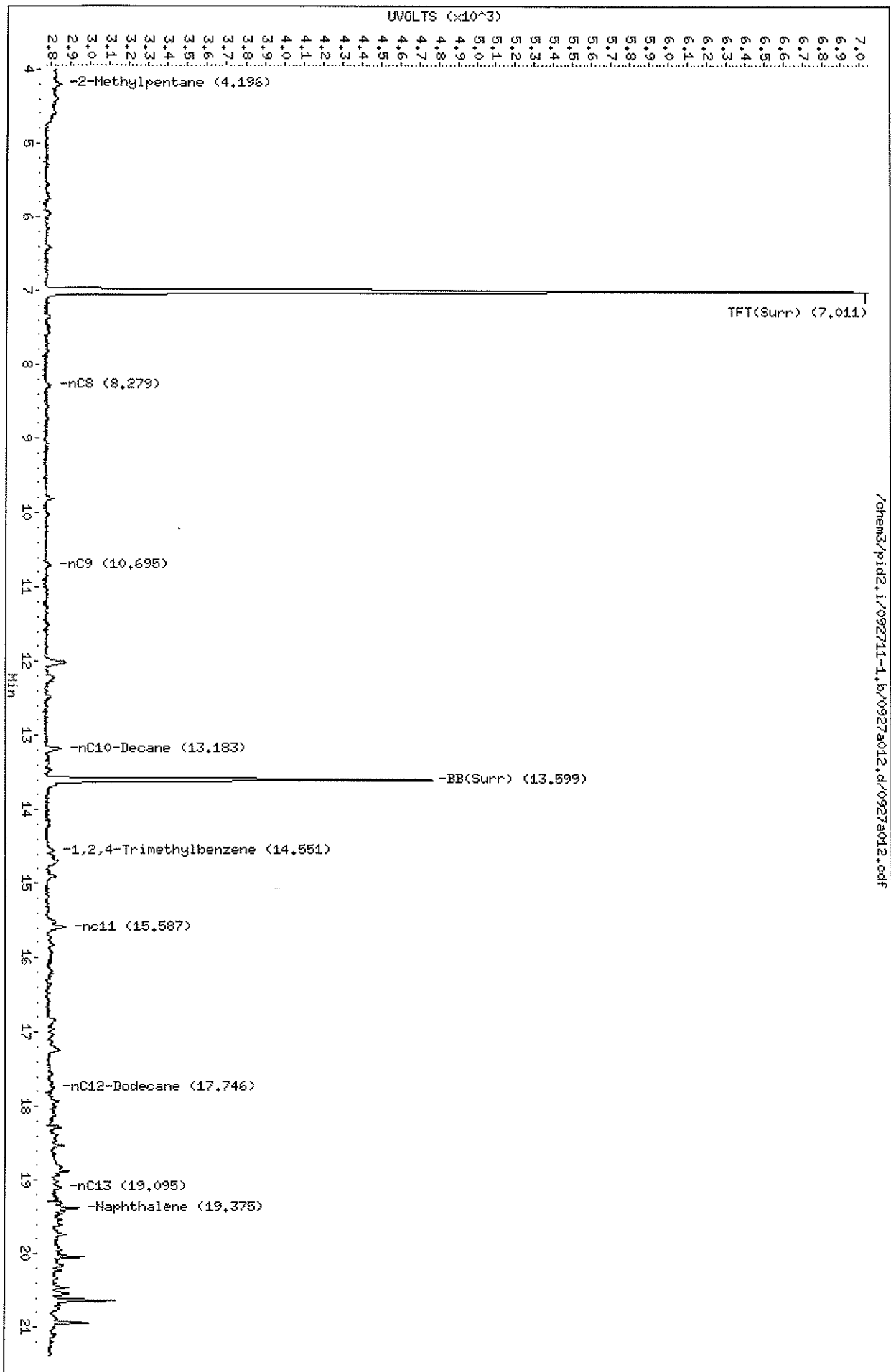
Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

Data File: /chem3/pid2.1/092711-1.k/0927a012.d
Date: 27-SEP-2011 18:26
Client ID: KJ-HM6-14
Sample Info: TH91E

Column phase: RTX 502-2 FID

/chem3/pid2.1/092711-1.k/0927a012.d/0927a012.cdf

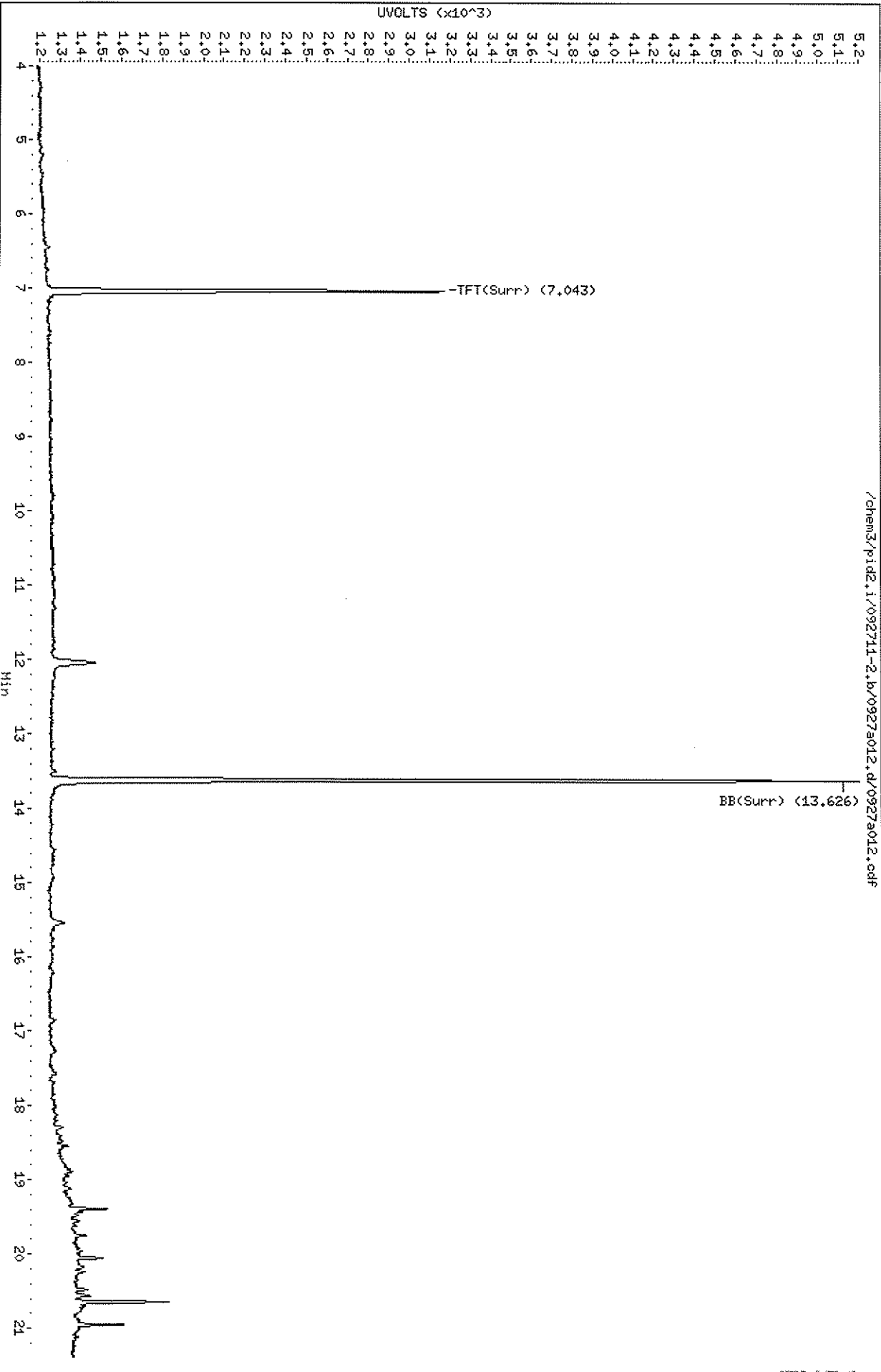
Instrument: pid2.1
Operator: HS
Column diameter: 0.18



Data File: /chem3/pid2.1/092711-2.b/0927a012.d
Date: 27-SEP-2011 18:26
Client ID: KJ-HM6-14
Sample Info: TH91E

Column phase: RTX 502-2 PID

Instrument: pid2.i
Operator: HS
Column diameter: 0.18



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: 1001

Sample ID: KJ-MW7-5
SAMPLE

Lab Sample ID: TM91F
LIMS ID: 11-20416
Matrix: Soil
Data Release Authorized: **VD**
Reported: 09/30/11

QC Report No: TM91-Kennedy Jenks Consultants
Project: Ecology Cornet Bay
Event: NA
Date Sampled: 09/15/11
Date Received: 09/19/11

Date Analyzed: 09/27/11 18:53
Instrument/Analyst: PID2/MH

Purge Volume: 5.0 mL
Sample Amount: 68 mg-dry-wt
Percent Moisture: 25.5%

CAS Number	Analyte	RL	Result	GAS ID
71-43-2	Benzene	18	< 18 U	
108-88-3	Toluene	18	< 18 U	
100-41-4	Ethylbenzene	18	< 18 U	
179601-23-1	m,p-Xylene	37	< 37 U	
95-47-6	o-Xylene	18	< 18 U	
	Gasoline Range Hydrocarbons	7.4	< 7.4 U	---

BETX Surrogate Recovery

Trifluorotoluene	94.0%
Bromobenzene	97.2%

Gasoline Surrogate Recovery

Trifluorotoluene	97.7%
Bromobenzene	97.4%

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
GRO: Positive result that does not match an identifiable gasoline pattern.

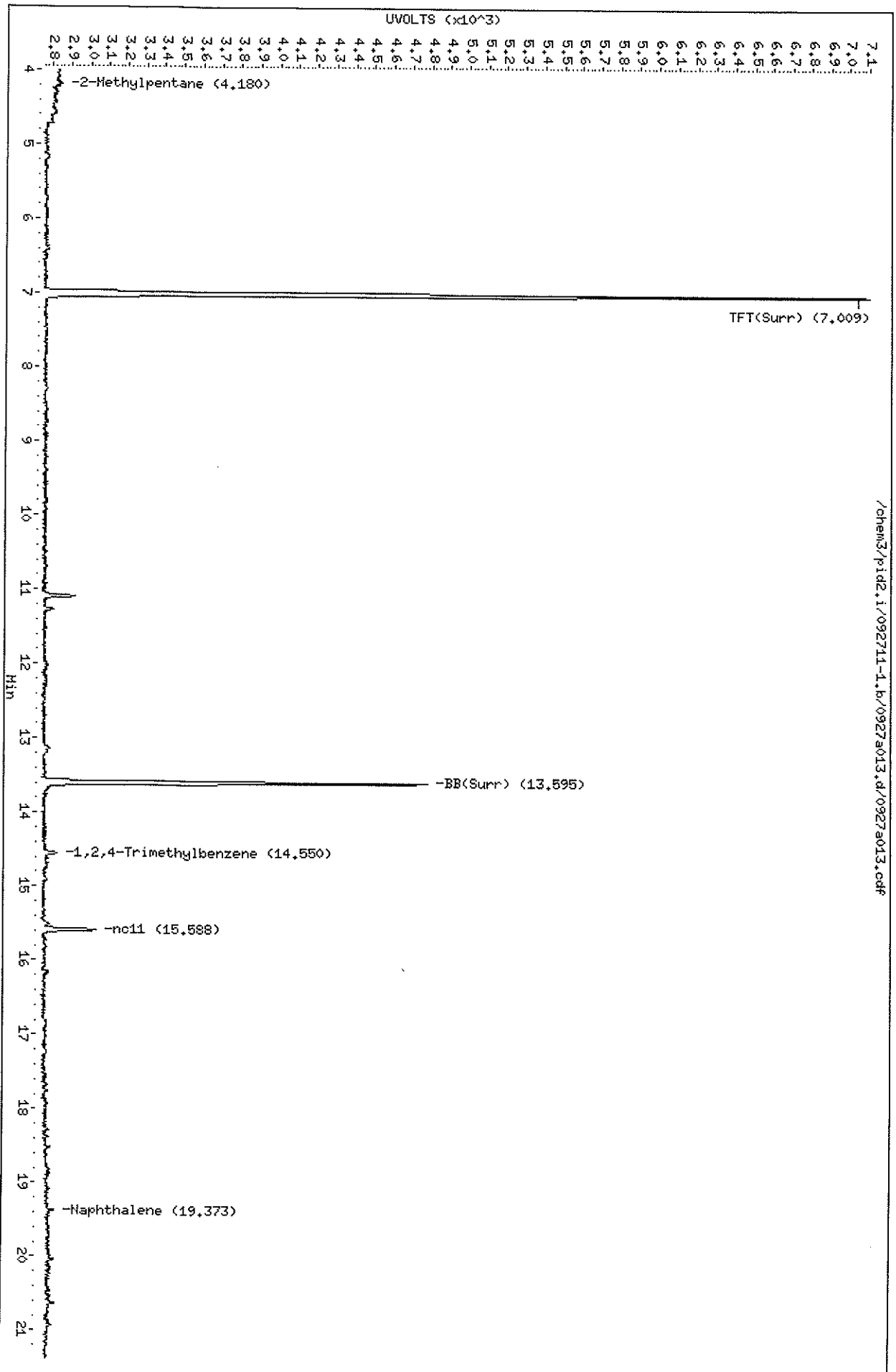
Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

Data File: /chem3/pid2.i/092711-1.b/0927a013.d
Date: 27-SEP-2011 18:53
Client ID: KJ-MW-5
Sample Info: TW91F

Column phase: RTX 502-2 FID

Instrument: pid2.i
Operator: MS
Column diameter: 0.18



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ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: KJ-B34-5

SAMPLE

Lab Sample ID: TM91G

LIMS ID: 11-20417

Matrix: Soil

Data Release Authorized: *VJ*

Reported: 09/30/11

QC Report No: TM91-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Event: NA

Date Sampled: 09/15/11

Date Received: 09/19/11

Date Analyzed: 09/27/11 19:20

Instrument/Analyst: PID2/MH

Purge Volume: 5.0 mL

Sample Amount: 6.9 mg-dry-wt

Percent Moisture: 26.4%

CAS Number	Analyte	RL	Result	
71-43-2	Benzene	180	1,100	
108-88-3	Toluene	180	< 180 U	
100-41-4	Ethylbenzene	180	15,000	
179601-23-1	m,p-Xylene	360	1,500	
95-47-6	o-Xylene	180	< 180 U	
	Gasoline Range Hydrocarbons	73	2,400	GAS ID GRO
BETX Surrogate Recovery				
	Trifluorotoluene	98.2%		
	Bromobenzene	100%		
Gasoline Surrogate Recovery				
	Trifluorotoluene	101%		
	Bromobenzene	114%		

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

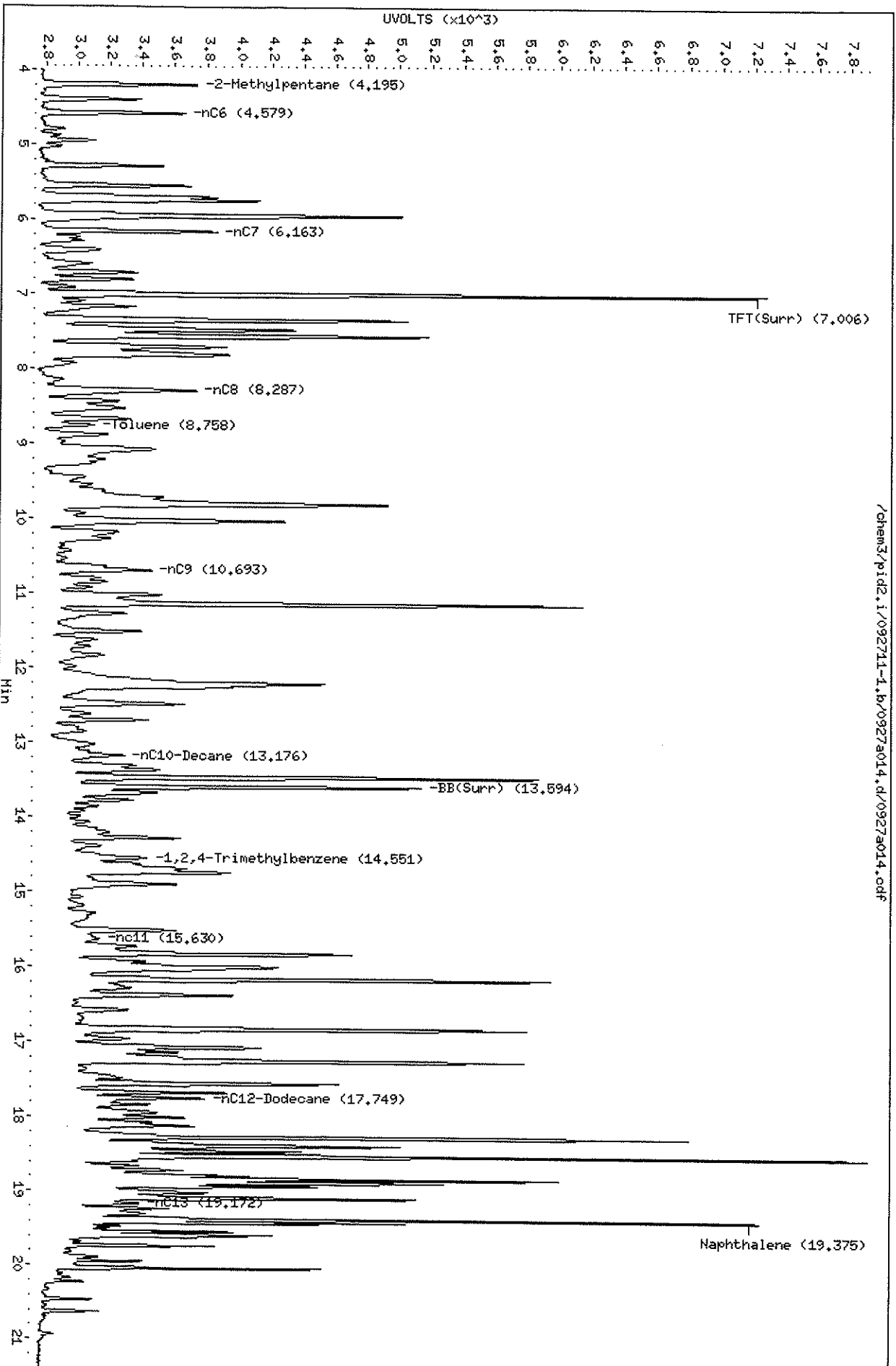
Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

Data File: /chem3/pid2.i/092711-1.b/0927a014.d
Date: 27-SEP-2011 19:20
Client ID: KJ-B34-5
Sample Info: TW91G

Column phase: RTX 502-2 FID

Instrument: pid2.i
Operator: MS
Column diameter: 0.18



/chem3/pid2.i/092711-1.b/0927a014.d/0927a014.odf

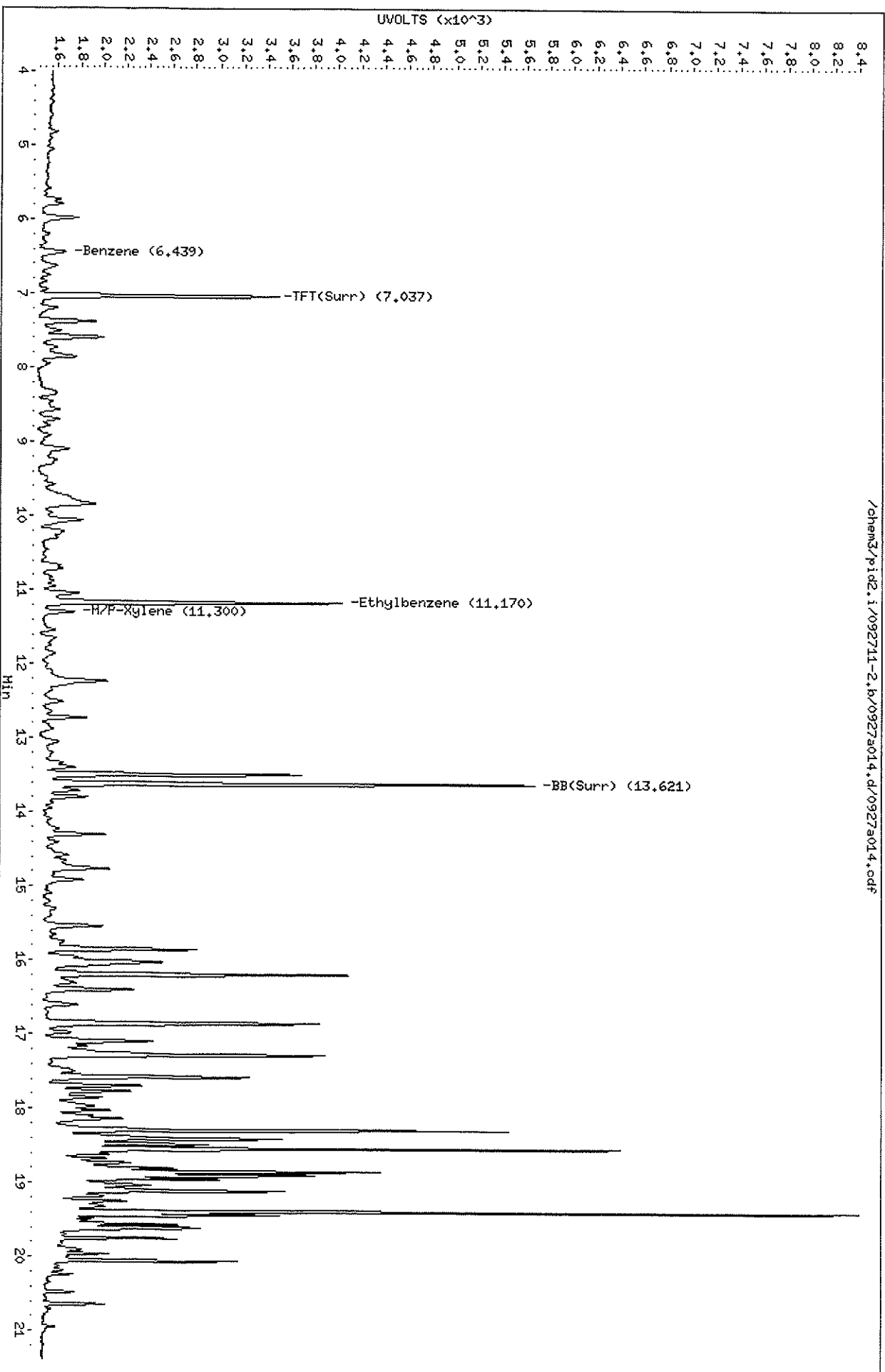
TW91 100001

Data File: /chem3/pid2.i/092711-2.b/0927a014.d
Date: 27-SEP-2011 19:20
Client ID: KJ-B34-5
Sample Info: TM91G

Column phase: RTX 502-2 PID

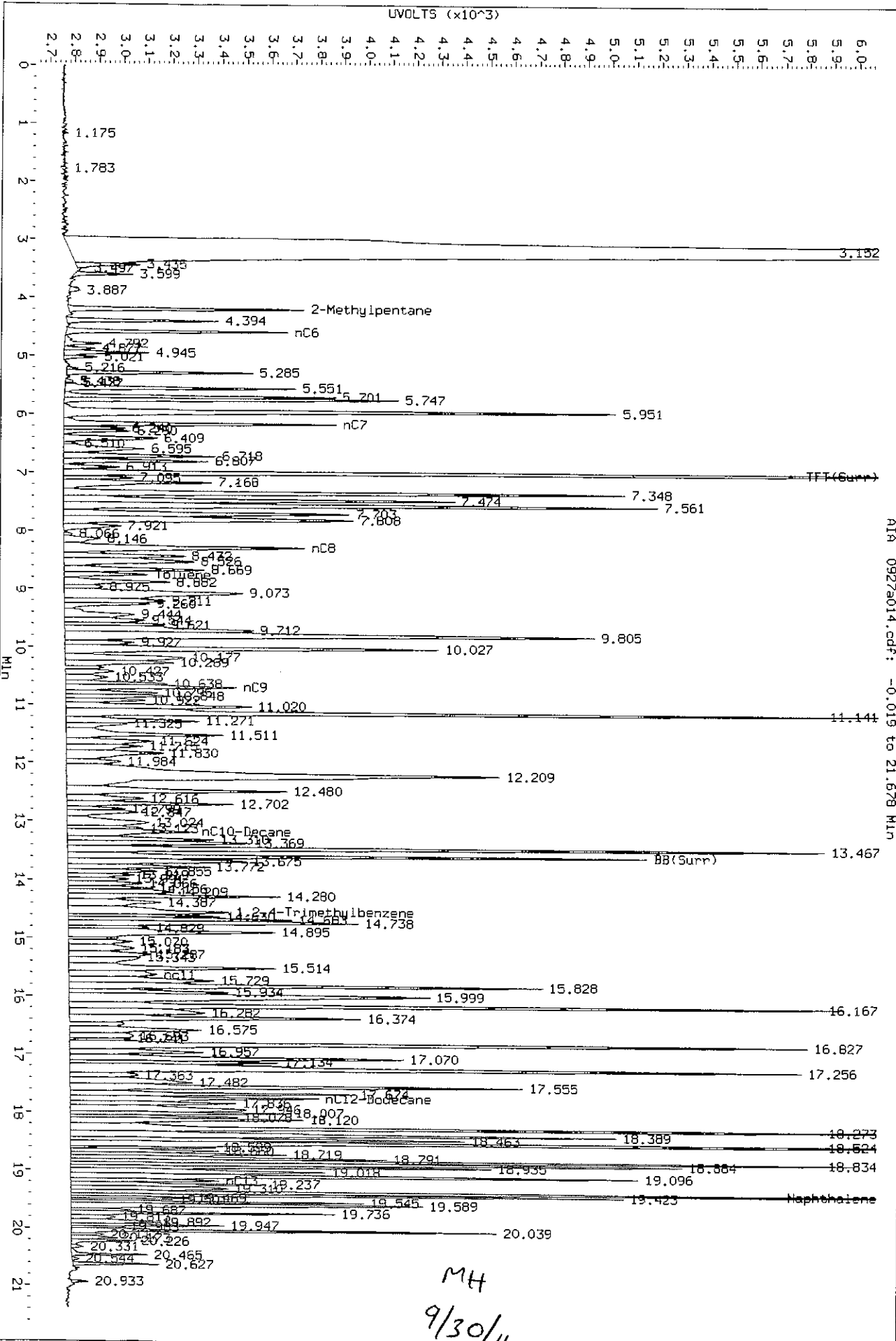
/chem3/pid2.i/092711-2.b/0927a014.d/0927a014.cdf

Instrument: pid2.i
Operator: MS
Column diameter: 0.18




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Data File: /chem3/pld2.1/092711-1.b/0927a014.d/0927a014.cdf
Injection Date: 27-SEP-2011 19:20
Instrument: pld2.1
Client Sample ID: KJ-B34-5



AIR 0927a014.cdf: -0.019 to 21.678 MIN

Sample ID: KJ-B35-4
 SAMPLE

Lab Sample ID: TM91H
 LIMS ID: 11-20418
 Matrix: Soil
 Data Release Authorized: 
 Reported: 09/30/11

QC Report No: TM91-Kennedy Jenks Consultants
 Project: Ecology Cornet Bay
 Event: NA
 Date Sampled: 09/15/11
 Date Received: 09/19/11

Date Analyzed: 09/27/11 19:48
 Instrument/Analyst: PID2/MH

Purge Volume: 5.0 mL
 Sample Amount: 8.7 mg-dry-wt
 Percent Moisture: 16.5%

CAS Number	Analyte	RL	Result	
71-43-2	Benzene	140	3,000	
108-88-3	Toluene	140	< 140 U	
100-41-4	Ethylbenzene	140	13,000	
179601-23-1	m,p-Xylene	290	2,400	
95-47-6	o-Xylene	140	< 140 U	
	Gasoline Range Hydrocarbons	57	1,000	GAS ID GRO
BETX Surrogate Recovery				
	Trifluorotoluene	96.3%		
	Bromobenzene	101%		
Gasoline Surrogate Recovery				
	Trifluorotoluene	100%		
	Bromobenzene	109%		

BETX values reported in µg/kg (ppb)
 Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.

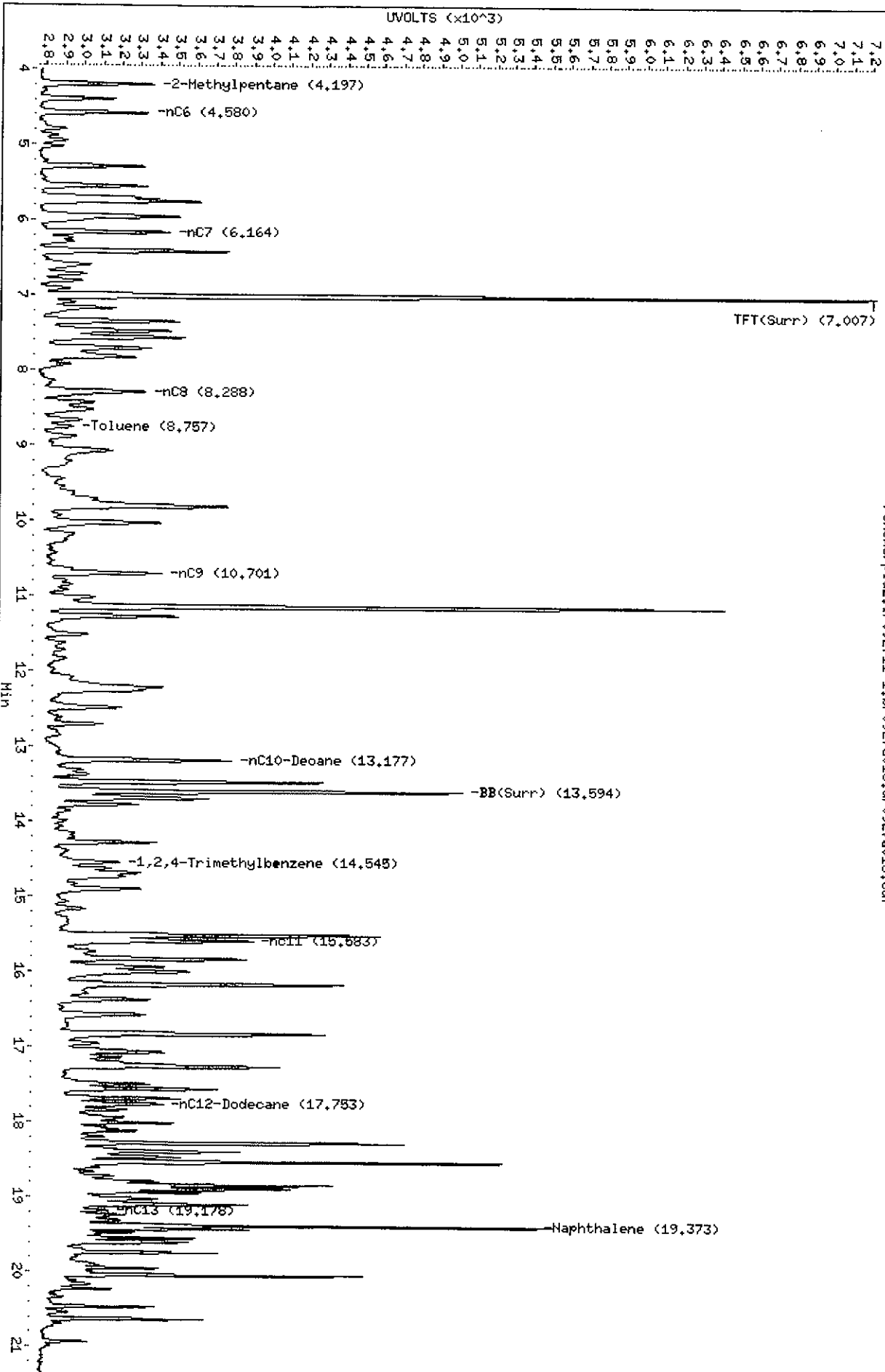
Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

Data File: /chem3/pid2.i/092711-1.b/0927a015.d
Date: 27-SEP-2011 19:48
Client ID: KJ-B35-4
Sample Info: TM91H

Column phaset RTX 502-2 FID

Instrument: pid2.i
Operator: MS
Column diameter: 0.18



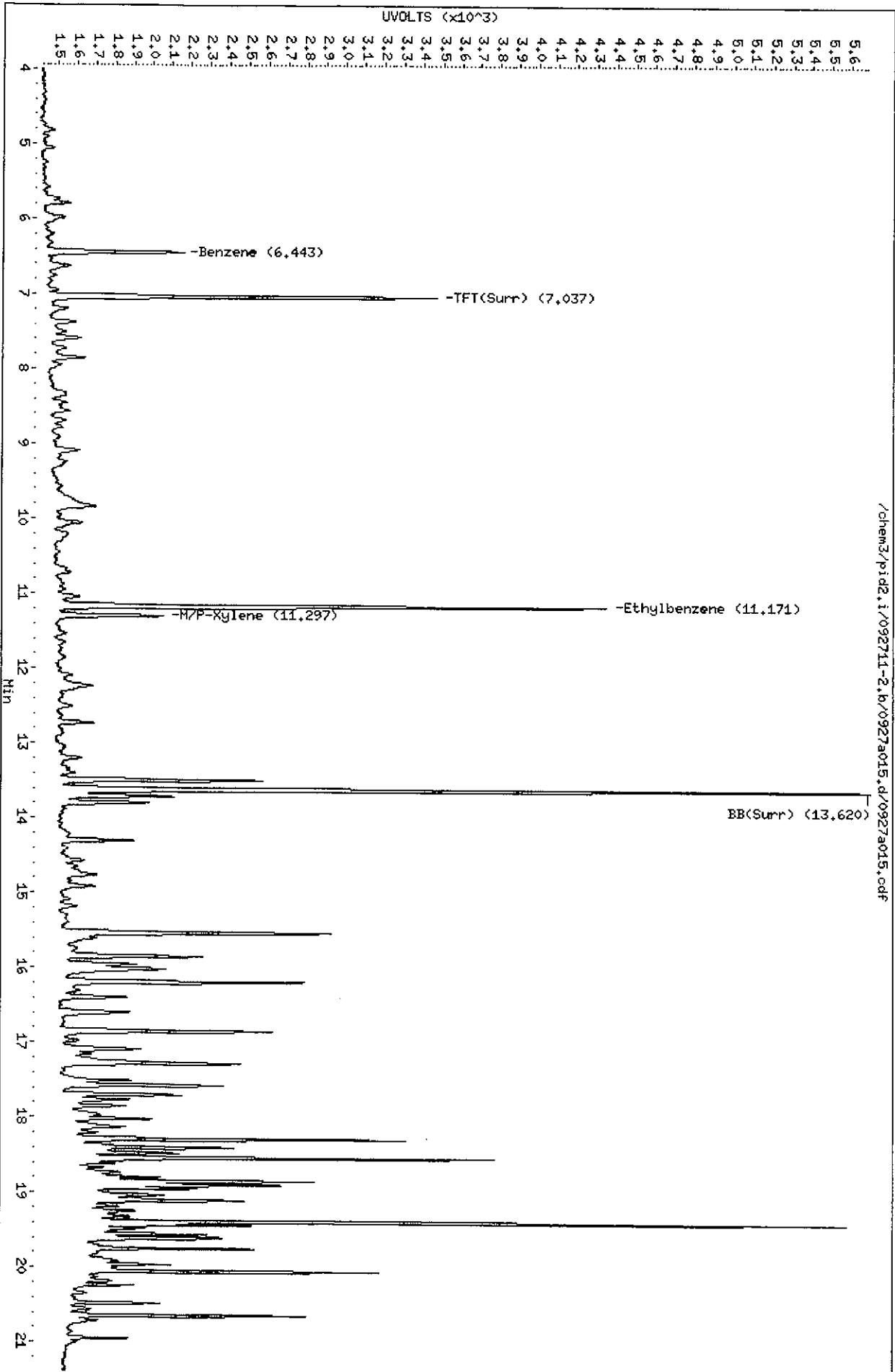
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Data File: /chem3/pid2.i/092711-2.b/0927a015.d
Date: 27-SEP-2011 19:48
Client ID: KJ-835-4
Sample Info: TH91H

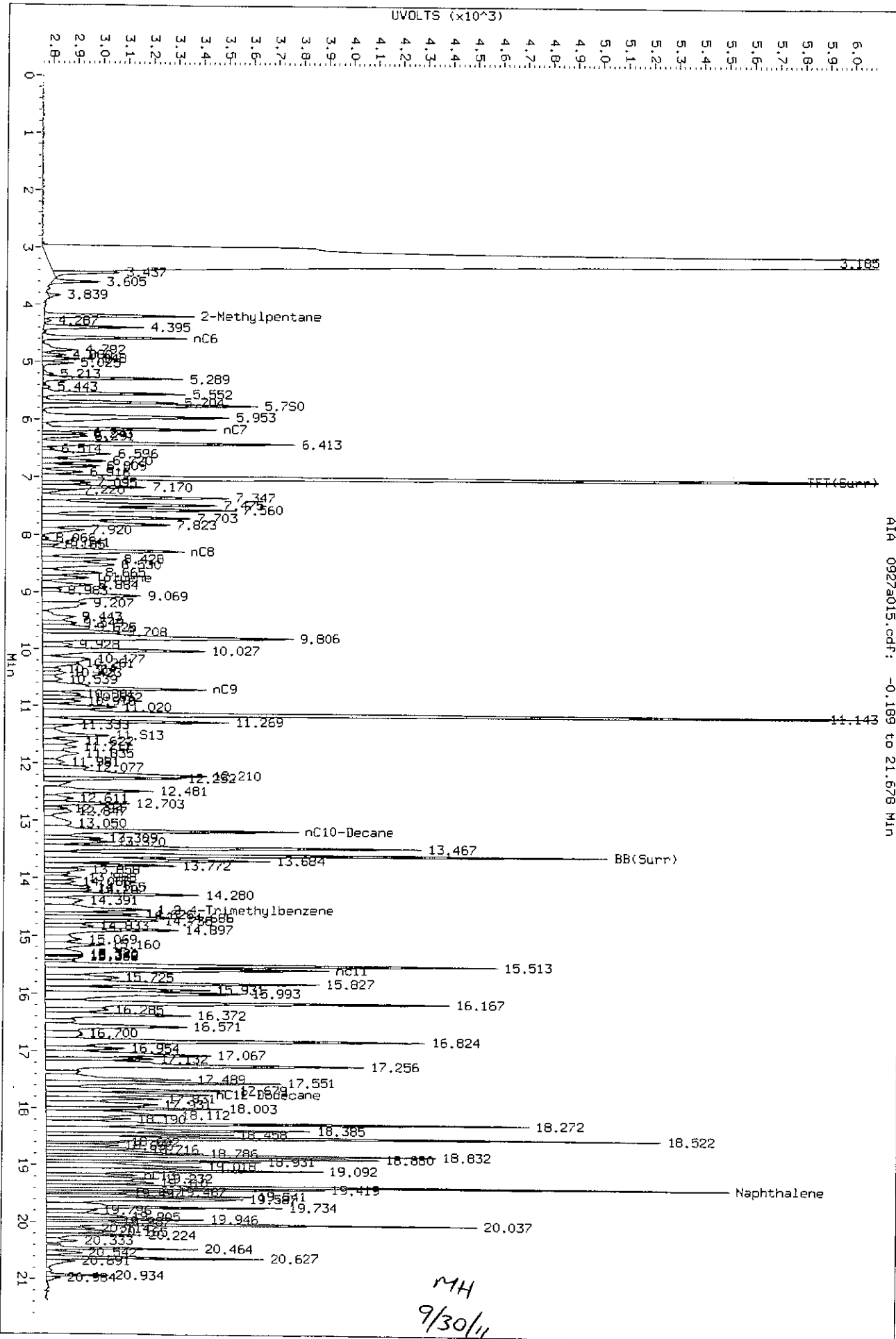
Column phase: RTX 502-2 PID

/chem3/pid2.i/092711-2.b/0927a015.d/0927a015.cdf

Instrument: pid2.i
Operator: HS
Column diameter: 0.18

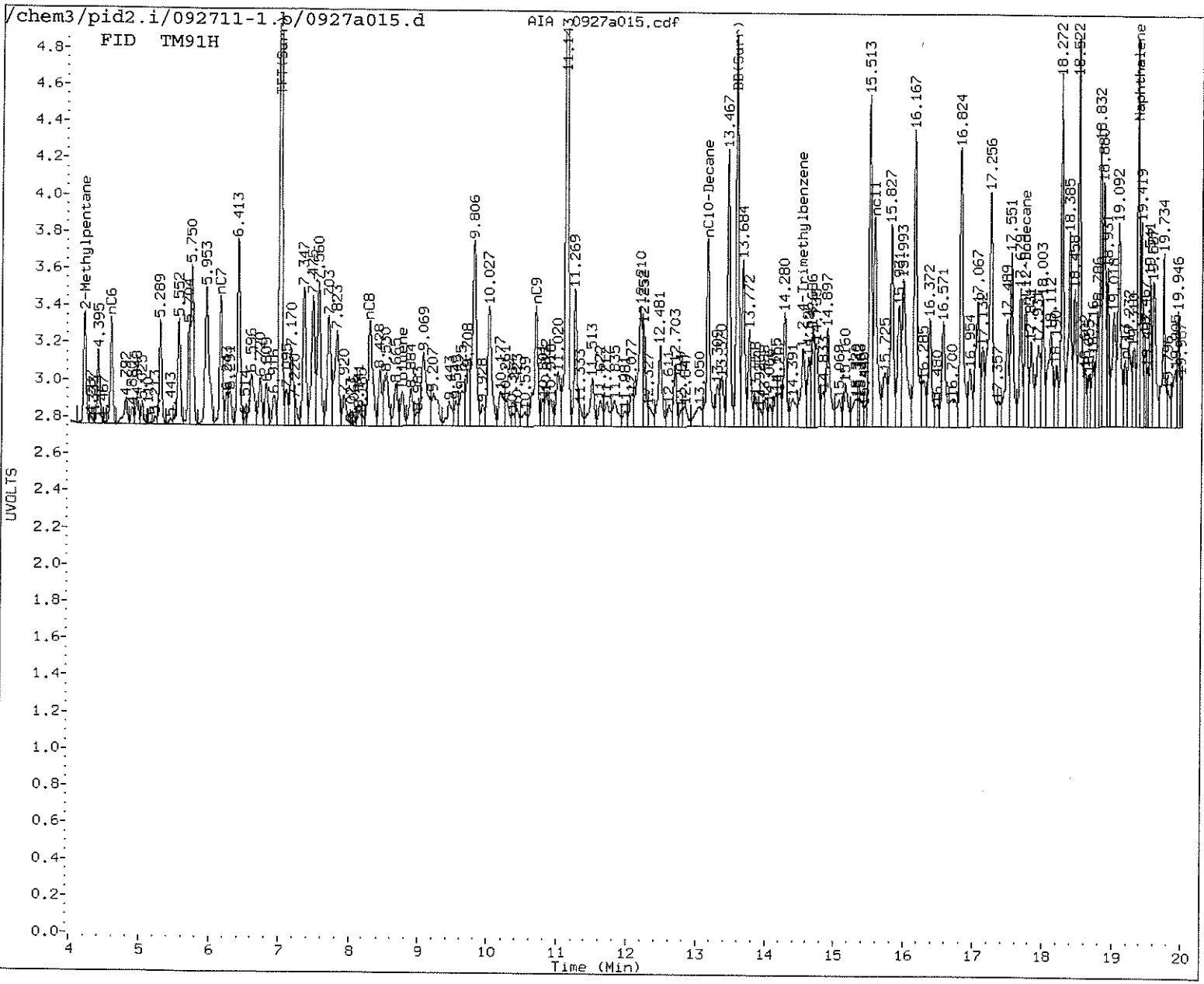


Data File: /chem3/pid2.1/092711-1.b/0927a015.d/0927a015.cdf
Injection Date: 27-SEP-2011 19:48
Instrument: pid2.1
Client Sample ID: KJ-B35-4



AIA 0927a015.cdf: -0.189 to 21.678 MIN

TM91: 00000



MANUAL INTEGRATION

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: MH Date: 9/30/11

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021EMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: KJ-B35-8

SAMPLE

Lab Sample ID: TM91I

LIMS ID: 11-20419

Matrix: Soil

Data Release Authorized: *VJB*

Reported: 09/30/11

QC Report No: TM91-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Event: NA

Date Sampled: 09/15/11

Date Received: 09/19/11

Date Analyzed: 09/27/11 20:16

Instrument/Analyst: PID2/MH

Purge Volume: 5.0 mL

Sample Amount: 69 mg-dry-wt

Percent Moisture: 20.5%

CAS Number	Analyte	RL	Result
71-43-2	Benzene	18	< 18 U
108-88-3	Toluene	18	< 18 U
100-41-4	Ethylbenzene	18	< 18 U
179601-23-1	m,p-Xylene	36	< 36 U
95-47-6	o-Xylene	18	< 18 U

Gasoline Range Hydrocarbons	7.3	< 7.3 U	GAS ID ---
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BETX Surrogate Recovery

Trifluorotoluene	95.1%
Bromobenzene	99.3%

Gasoline Surrogate Recovery

Trifluorotoluene	96.8%
Bromobenzene	99.8%

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

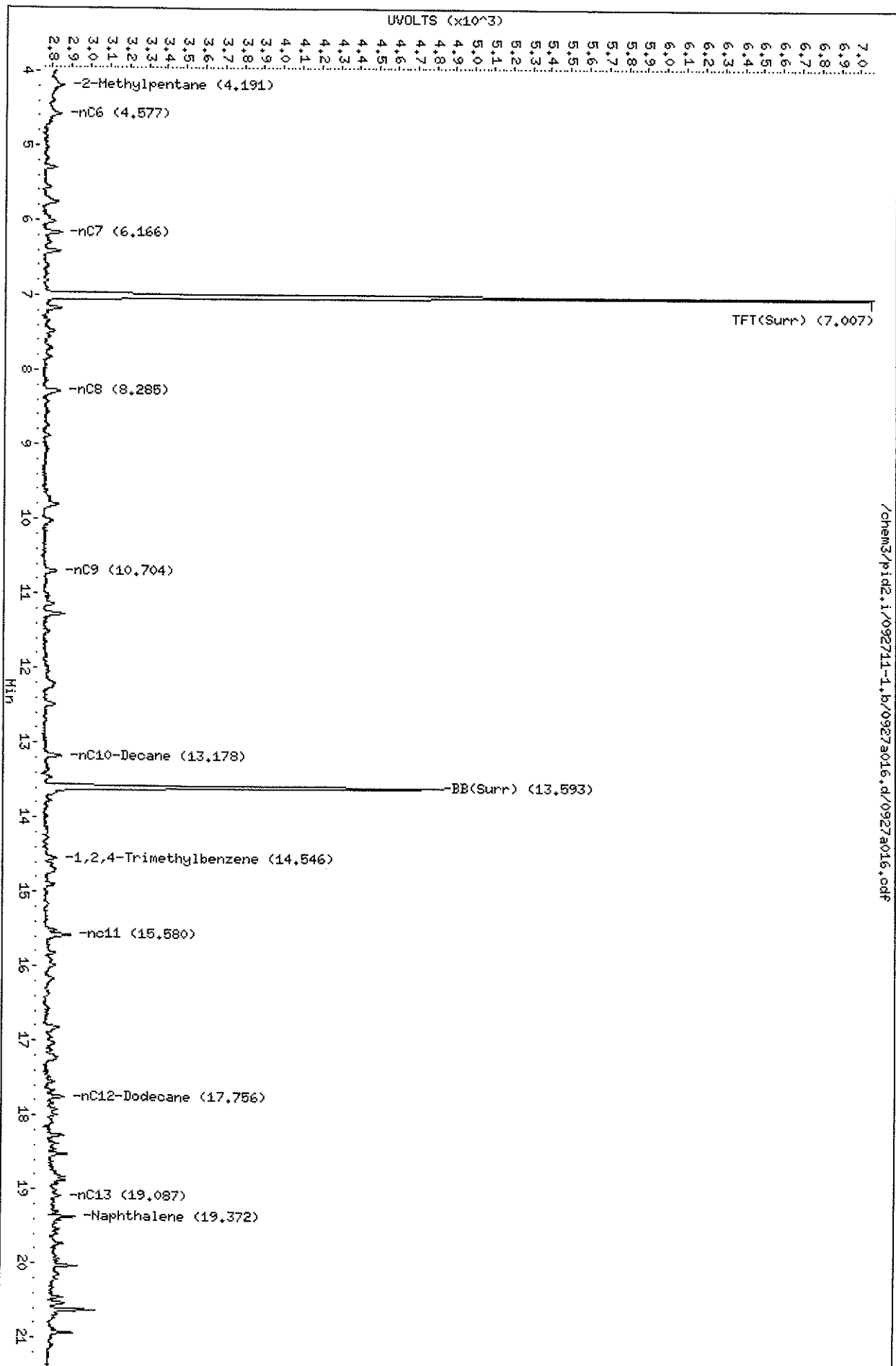
Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

Data File: /chem3/pid2.i/092711-1.b/0927a016.d
Date: 27-SEP-2011 20:16
Client ID: KJ-B35-8
Sample Info: TH911

Column phase: RTX 502-2 FID

Instrument: pid2.i
Operator: MS
Column diameter: 0.18



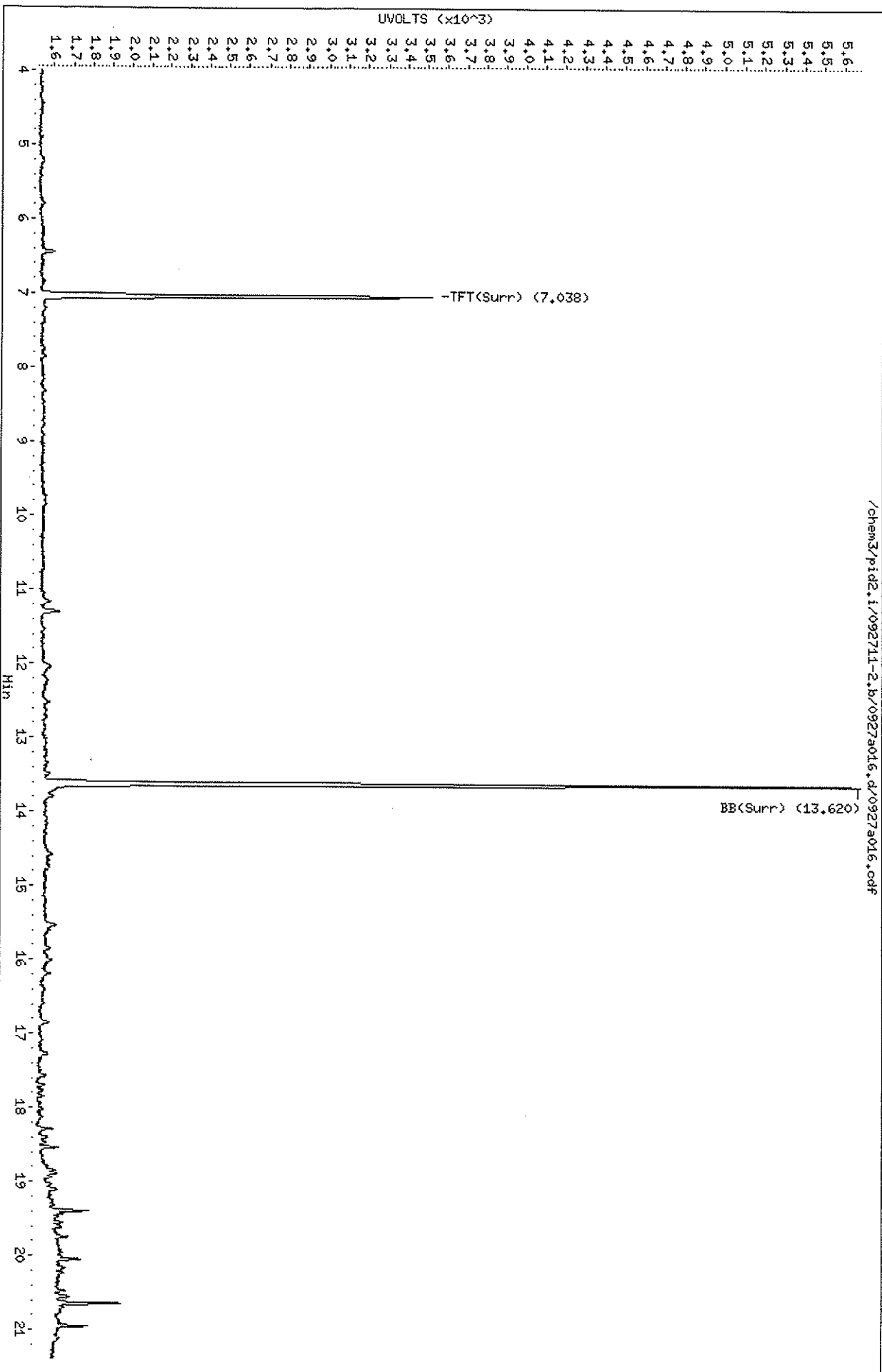
TH911 092711 092711

Data File: /chem3/pid2.i/092711-2.b/0927a016.d
Date: 27-SEP-2011 20:16
Client ID: KJ-B35-8
Sample Info: TM911

Column phase: RTX 502-2 PID

/chem3/pid2.i/092711-2.b/0927a016.d/0927a016.cdf

Instrument: pid2.i
Operator: MS
Column diameter: 0.18



09 27 2011 20:16

Sample ID: KJ-B101
SAMPLE

Lab Sample ID: TM91J
LIMS ID: 11-20420
Matrix: Soil
Data Release Authorized: *VD*
Reported: 09/30/11

QC Report No: TM91-Kennedy Jenks Consultants
Project: Ecology Cornet Bay
Event: NA
Date Sampled: 09/15/11
Date Received: 09/19/11

Date Analyzed: 09/27/11 20:44
Instrument/Analyst: PID2/MH

Purge Volume: 5.0 mL
Sample Amount: 6.9 mg-dry-wt
Percent Moisture: 15.2%

CAS Number	Analyte	RL	Result	GAS ID
71-43-2	Benzene	180	< 180 U	
108-88-3	Toluene	180	< 180 U	
100-41-4	Ethylbenzene	180	8,200	
179601-23-1	m,p-Xylene	360	< 360 U	
95-47-6	o-Xylene	180	< 180 U	
Gasoline Range Hydrocarbons		72	1,400	---
BETX Surrogate Recovery				
Trifluorotoluene		95.9%		
Bromobenzene		101%		
Gasoline Surrogate Recovery				
Trifluorotoluene		99.1%		
Bromobenzene		111%		

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

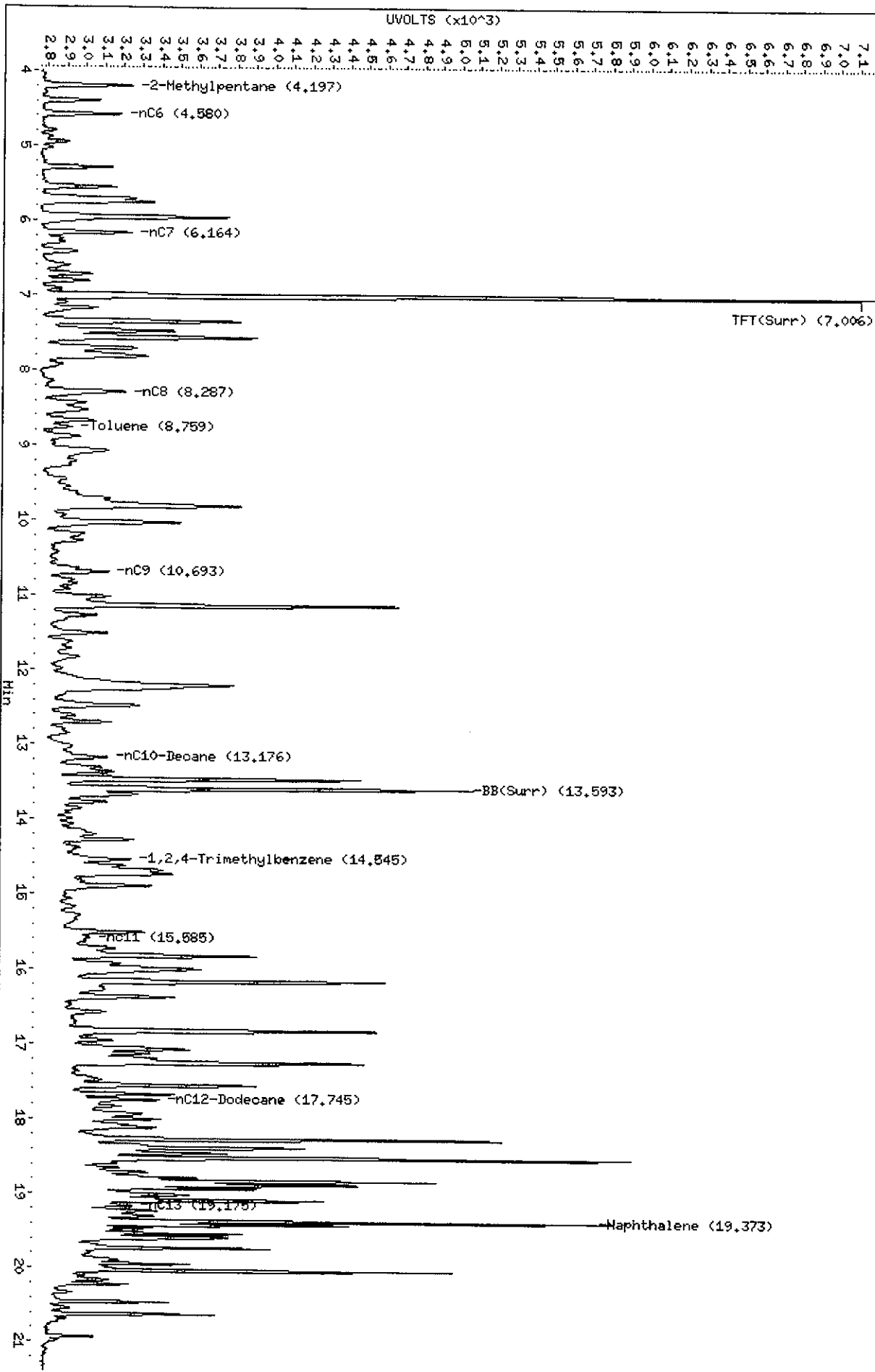
Data File: /chem3/pid2.i/092711-4.b/0927a017.d
Date: 27-SEP-2014 20:44
Client ID: KJ-B101
Sample Info: TM91J

Column phase: RTX 502-2 FID

/chem3/pid2.i/092711-4.b/0927a017.d/0927a017.odf

Instrument: pid2.i
Operator: HS
Column diameter: 0.18

Page 1

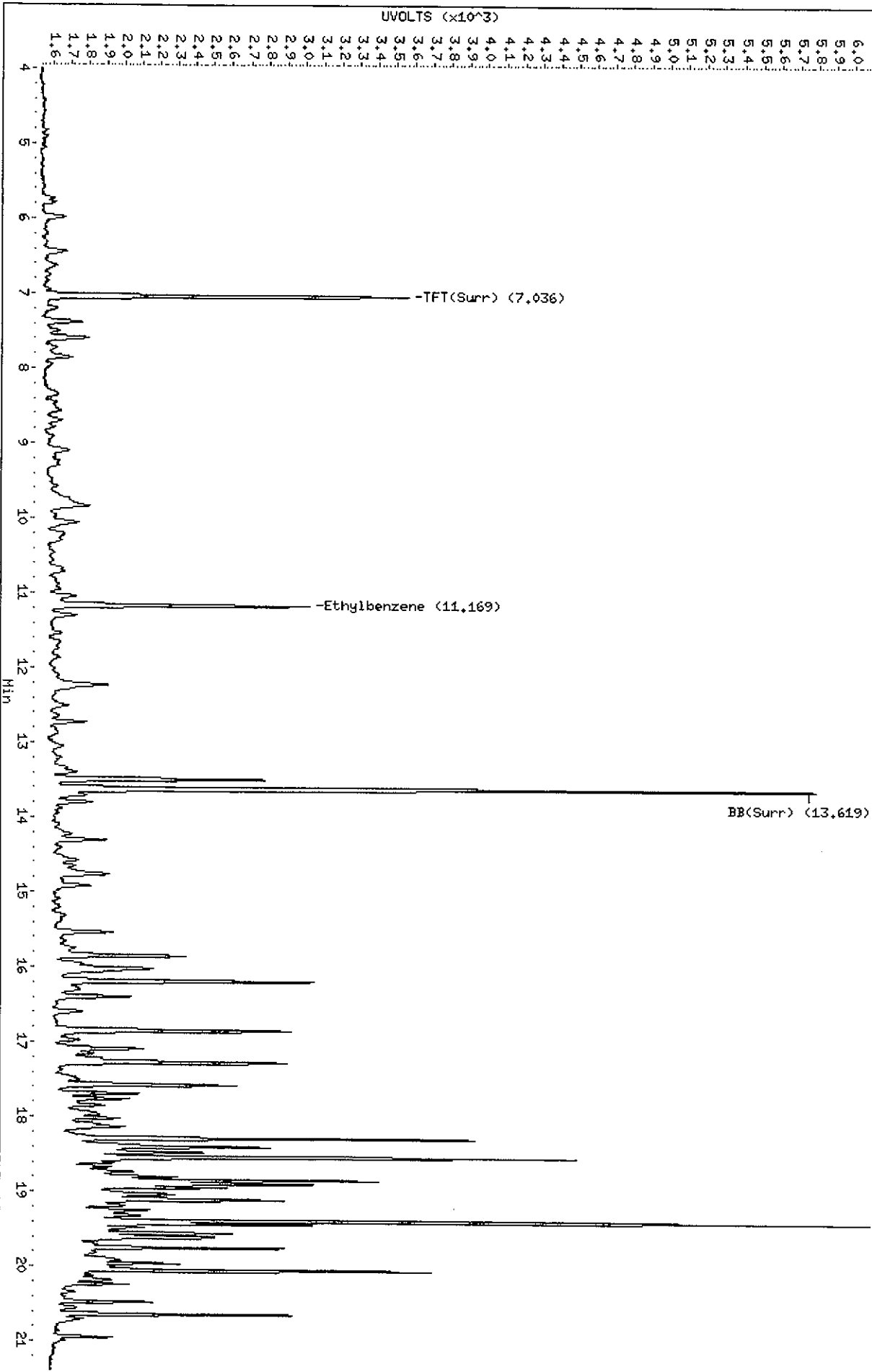


Data File: /chem3/pid2.i/092711-2.b/0927a017.d
Date: 27-SEP-2011 20:44
Client ID: KJ-B101
Sample Info: TH91J

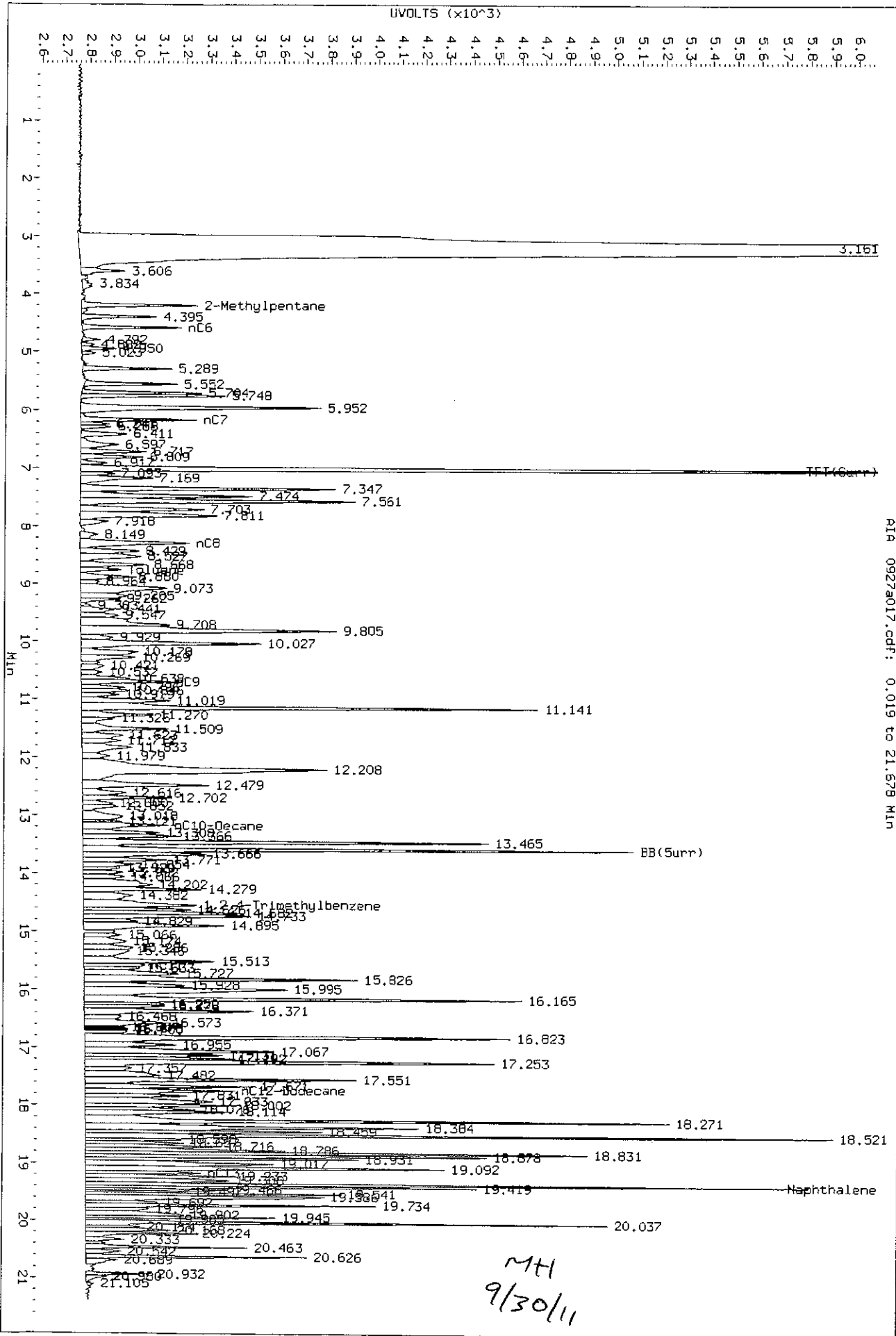
Column phase: RTX 502-2 PID

Instrument: pid2.i
Operator: MS
Column diameter: 0.18

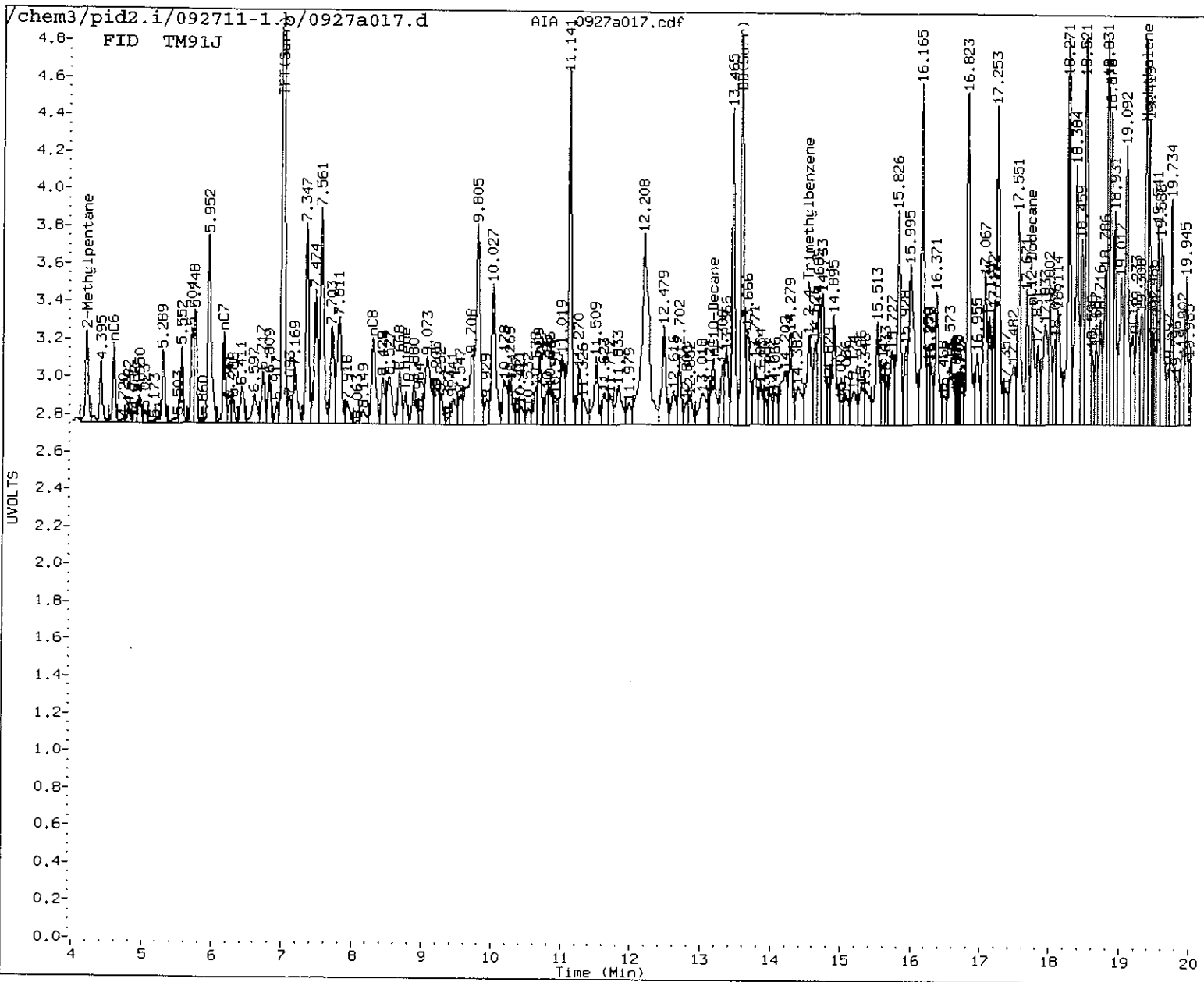
/chem3/pid2.i/092711-2.b/0927a017.d/0927a017.cdf



Data File: /chem3/pid2.1/092711-1.b/0927a017.d/0927a017.cdf
Injection Date: 27-SEP-2011 20:44
Instrument: pid2.1
Client Sample ID: KJ-B101



AIA 0927a017.cdf: 0.019 to 21.678 Min



MANUAL INTEGRATION

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: MH

Date: 9/30/14

Sample ID: KJ-B36-8
 SAMPLE

Lab Sample ID: TM91K
 LIMS ID: 11-20421
 Matrix: Soil
 Data Release Authorized: **VD**
 Reported: 09/30/11

QC Report No: TM91-Kennedy Jenks Consultants
 Project: Ecology Cornet Bay
 Event: NA
 Date Sampled: 09/15/11
 Date Received: 09/19/11

Date Analyzed: 09/27/11 23:05
 Instrument/Analyst: PID2/MH

Purge Volume: 5.0 mL
 Sample Amount: 3.4 mg-dry-wt
 Percent Moisture: 19.1%

CAS Number	Analyte	RL	Result	
71-43-2	Benzene	360	150,000	
108-88-3	Toluene	360	7,200	
100-41-4	Ethylbenzene	360	72,000	
179601-23-1	m,p-Xylene	730	33,000	
95-47-6	o-Xylene	360	2,500	
	Gasoline Range Hydrocarbons	150	4,000	GAS ID GAS/GRO

BETX Surrogate Recovery

Trifluorotoluene	85.8%
Bromobenzene	92.9%

Gasoline Surrogate Recovery

Trifluorotoluene	89.4%
Bromobenzene	105%

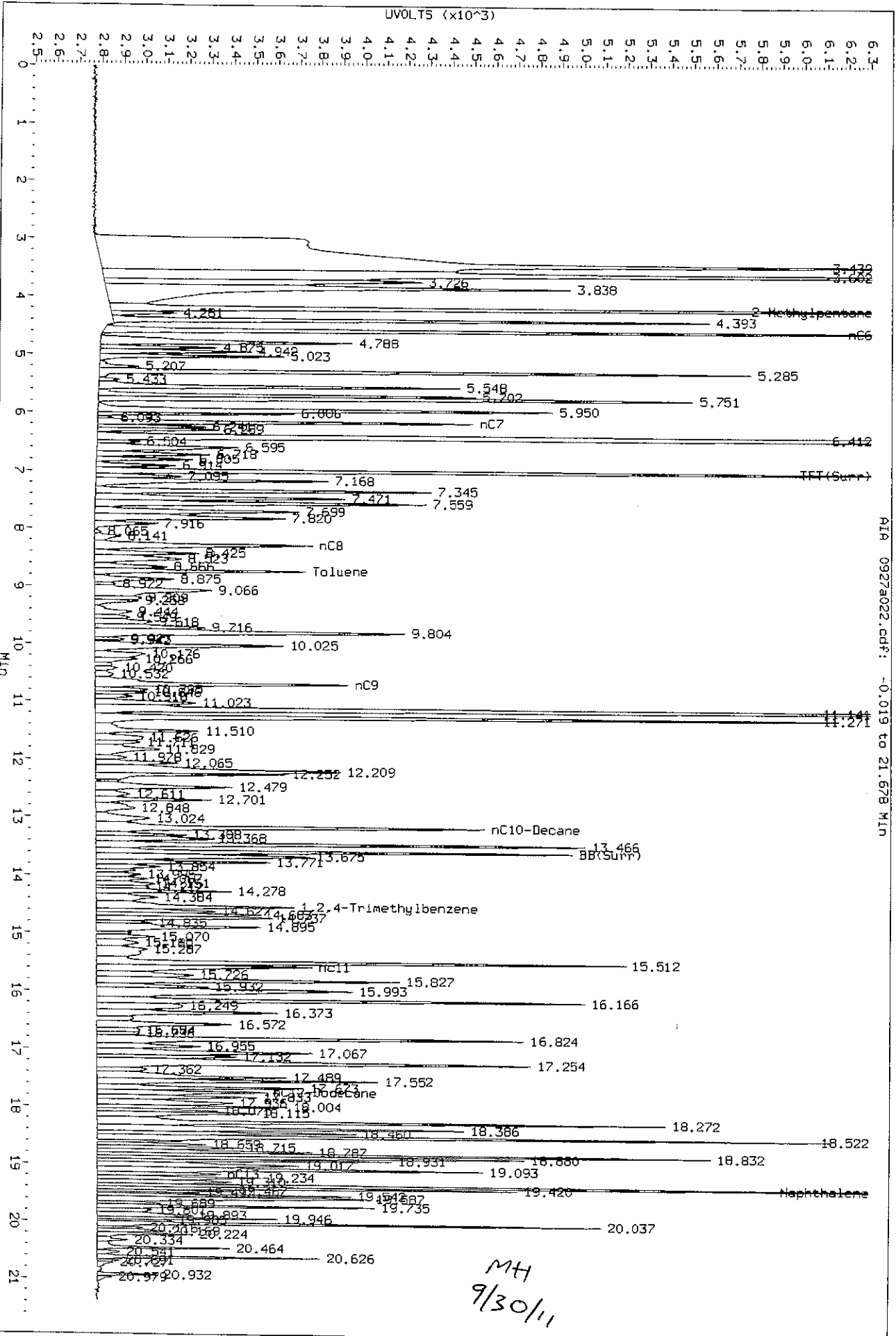
BETX values reported in µg/kg (ppb)
 Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

Data File: /chem3/pld2.1/092711-1.b/0927a022.d/0927a022.cdf
Injection Date: 27-SEP-2011 23:05
Instrument: PID2.1
Client Sample ID: KJ-B36-B



AIR 0927a022.cdf: -0.019 to 21.678 MIN

MH
9/30/11

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021EMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: KJ-B37-9

SAMPLE

Lab Sample ID: TM91L

LIMS ID: 11-20422

Matrix: Soil

Data Release Authorized: *VJB*

Reported: 09/30/11

QC Report No: TM91-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Event: NA

Date Sampled: 09/16/11

Date Received: 09/19/11

Date Analyzed: 09/27/11 23:34

Instrument/Analyst: PID2/MH

Purge Volume: 5.0 mL

Sample Amount: 65 mg-dry-wt

Percent Moisture: 29.4%

CAS Number	Analyte	RL	Result	GAS ID
71-43-2	Benzene	19	< 19 U	
108-88-3	Toluene	19	< 19 U	
100-41-4	Ethylbenzene	19	< 19 U	
179601-23-1	m, p-Xylene	39	< 39 U	
95-47-6	o-Xylene	19	< 19 U	
	Gasoline Range Hydrocarbons	7.7	< 7.7 U	---

BETX Surrogate Recovery

Trifluorotoluene	90.4%
Bromobenzene	96.6%

Gasoline Surrogate Recovery

Trifluorotoluene	92.8%
Bromobenzene	96.9%

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

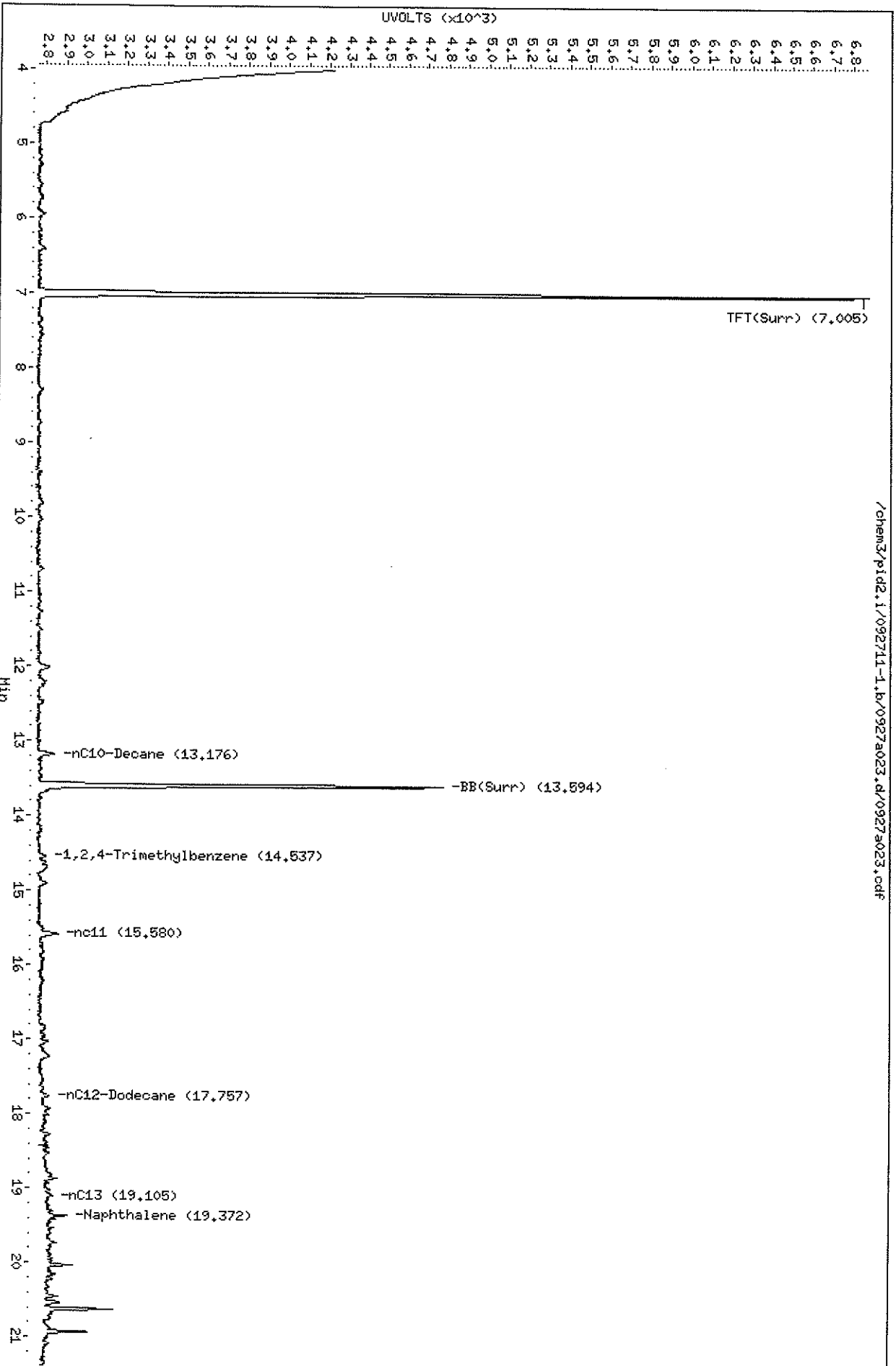
Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

Data File: /chem3/pid2.1/092711-1.b/0927a023.d
Date : 27-SEP-2011 23:34
Client ID: KJ-B37-9
Sample Info: TH91L

Column phase: RTX 502-2 FID

Instrument: pid2.i
Operator: MS
Column diameter: 0.18

/chem3/pid2.1/092711-1.b/0927a023.d/0927a023.pdf



092711-1

ORGANICS ANALYSIS DATA SHEET
 BETX by Method SW8021BMod
 TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: KJ-B38-7
 SAMPLE

Lab Sample ID: TM91M
 LIMS ID: 11-20423
 Matrix: Soil
 Data Release Authorized: *W*
 Reported: 09/30/11

QC Report No: TM91-Kennedy Jenks Consultants
 Project: Ecology Cornet Bay
 Event: NA
 Date Sampled: 09/16/11
 Date Received: 09/19/11

Date Analyzed: 09/28/11 07:33
 Instrument/Analyst: PID2/MH

Purge Volume: 5.0 mL
 Sample Amount: 69 mg-dry-wt
 Percent Moisture: 21.9%

CAS Number	Analyte	RL	Result
71-43-2	Benzene	18	25,000 E
108-88-3	Toluene	18	61
100-41-4	Ethylbenzene	18	1,800
179601-23-1	m,p-Xylene	36	320
95-47-6	o-Xylene	18	< 18 U

Gasoline Range Hydrocarbons	7.2	180	GAS ID GRO
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BETX Surrogate Recovery

Trifluorotoluene	106%
Bromobenzene	108%

Gasoline Surrogate Recovery

Trifluorotoluene	100%
Bromobenzene	113%

BETX values reported in µg/kg (ppb)
 Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

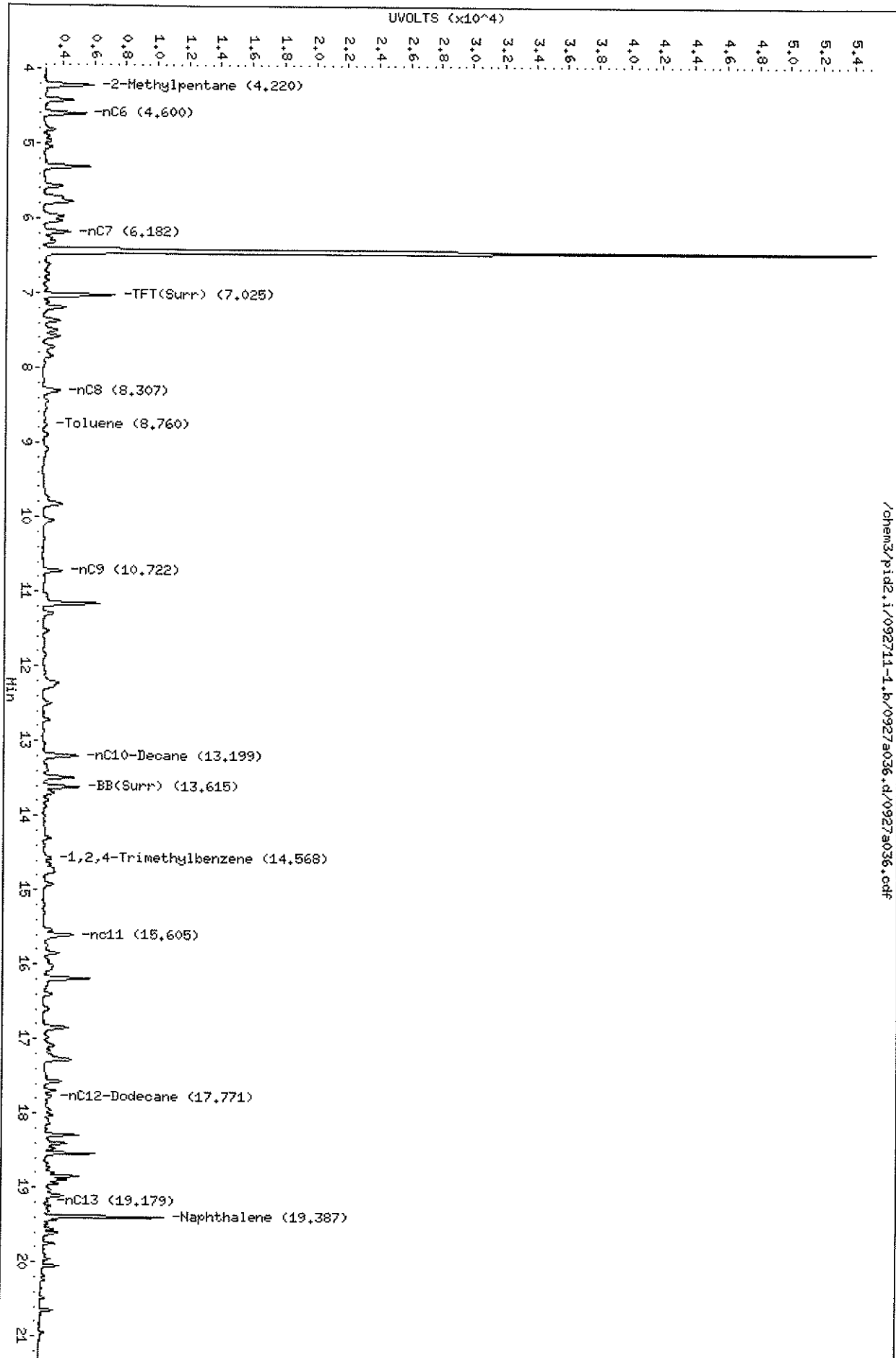
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Date : 28-SEP-2011 07:33
Client ID: KJ-B38-7
Sample Info: TH91M

Column phase: RTX 502-2 FID

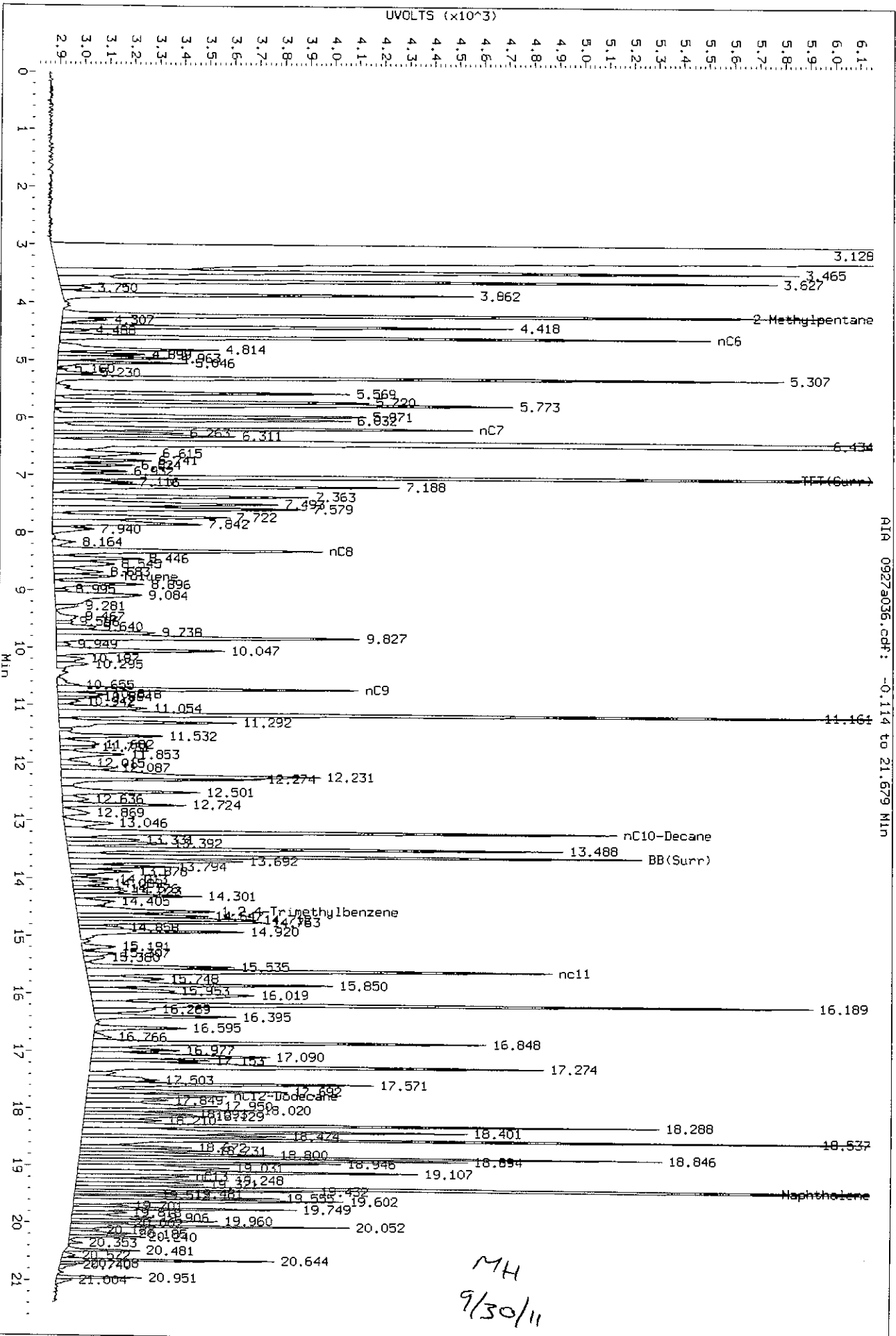
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Instrument: pid2.i
Operator: MS
Column diameter: 0.18

Page 1



Data File: /chem3/pld2.1/092711-1.b/0927a036.d/0927a036.cdf
Injection Date: 28-SEP-2011 07:33
Instrument: pld2.1
Client Sample ID: KJ-B39-7



MIR 0927a036.cdf: -0.114 to 21.679 Min

MH
9/30/11

ORGANICS ANALYSIS DATA SHEET
 BETX by Method SW8021BMod
 TPHG by Method NWTPHG
 Page 1 of 1



Sample ID: KJ-B38-7
 DILUTION

Lab Sample ID: TM91M
 LIMS ID: 11-20423
 Matrix: Soil
 Data Release Authorized: *VTB*
 Reported: 09/30/11

QC Report No: TM91-Kennedy Jenks Consultants
 Project: Ecology Cornet Bay
 Event: NA
 Date Sampled: 09/16/11
 Date Received: 09/19/11

Date Analyzed: 09/28/11 00:01
 Instrument/Analyst: PID2/MH

Purge Volume: 5.0 mL
 Sample Amount: 6.9 mg-dry-wt
 Percent Moisture: 21.9%

CAS Number	Analyte	RL	Result
71-43-2	Benzene	180	22,000
108-88-3	Toluene	180	< 180 U
100-41-4	Ethylbenzene	180	1,500
179601-23-1	m,p-Xylene	360	< 360 U
95-47-6	o-Xylene	180	< 180 U

Gasoline Range Hydrocarbons	72	150	GAS ID GRO
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BETX Surrogate Recovery

Trifluorotoluene	90.6%
Bromobenzene	96.2%

Gasoline Surrogate Recovery

Trifluorotoluene	91.8%
Bromobenzene	96.6%

BETX values reported in µg/kg (ppb)
 Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

Data File: /chem3/pid2.i/092711-1.b/0927a024.d

Date: 28-SEP-2011 00:01

Client ID: K3-B38-7

Sample Info: TH91M

Column phase: RTX 502-2 FID

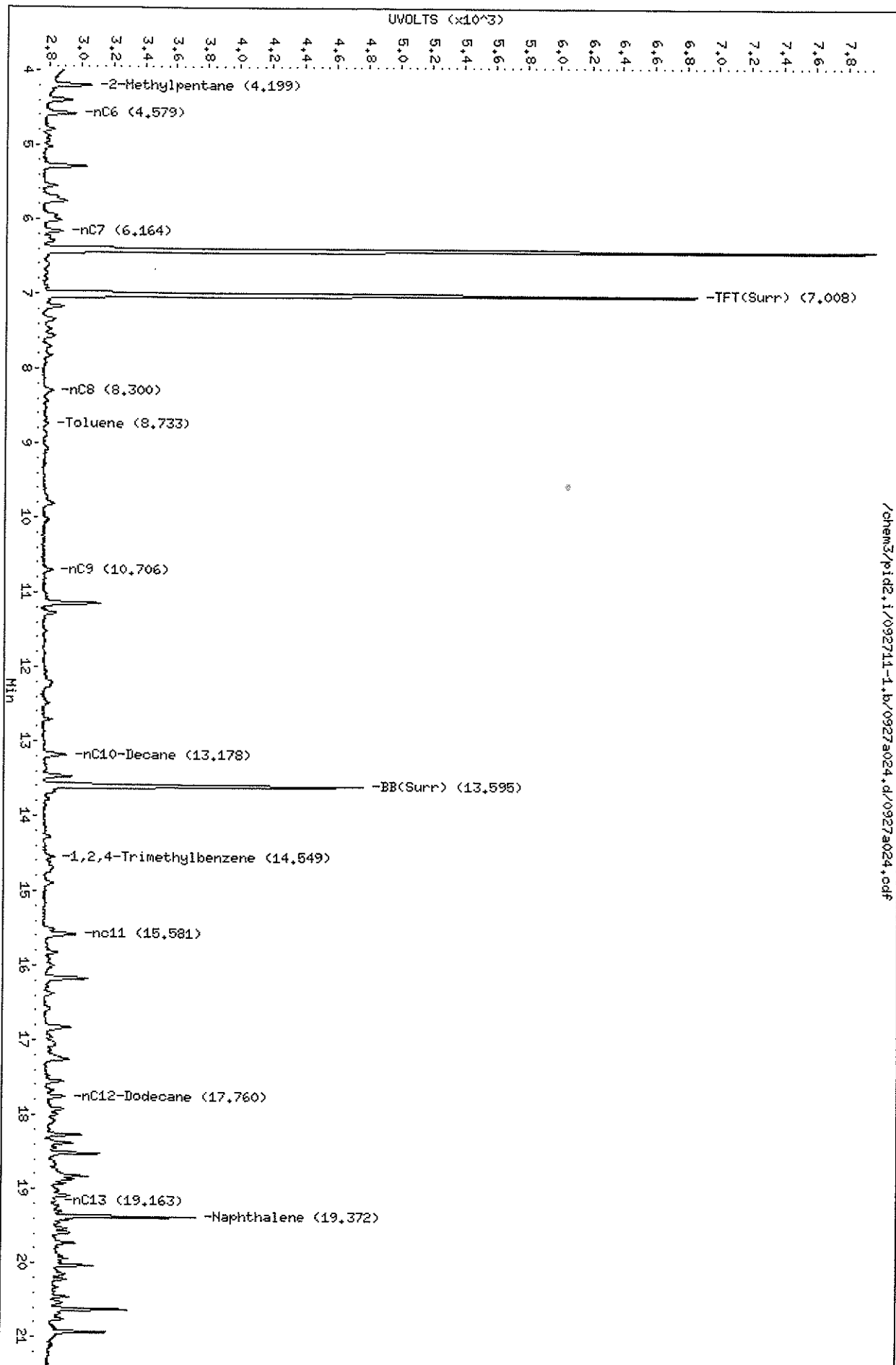
Instrument: pid2.i

Operator: HS

Column diameter: 0.18

/chem3/pid2.i/092711-1.b/0927a024.d/0927a024.pdf

Page 1

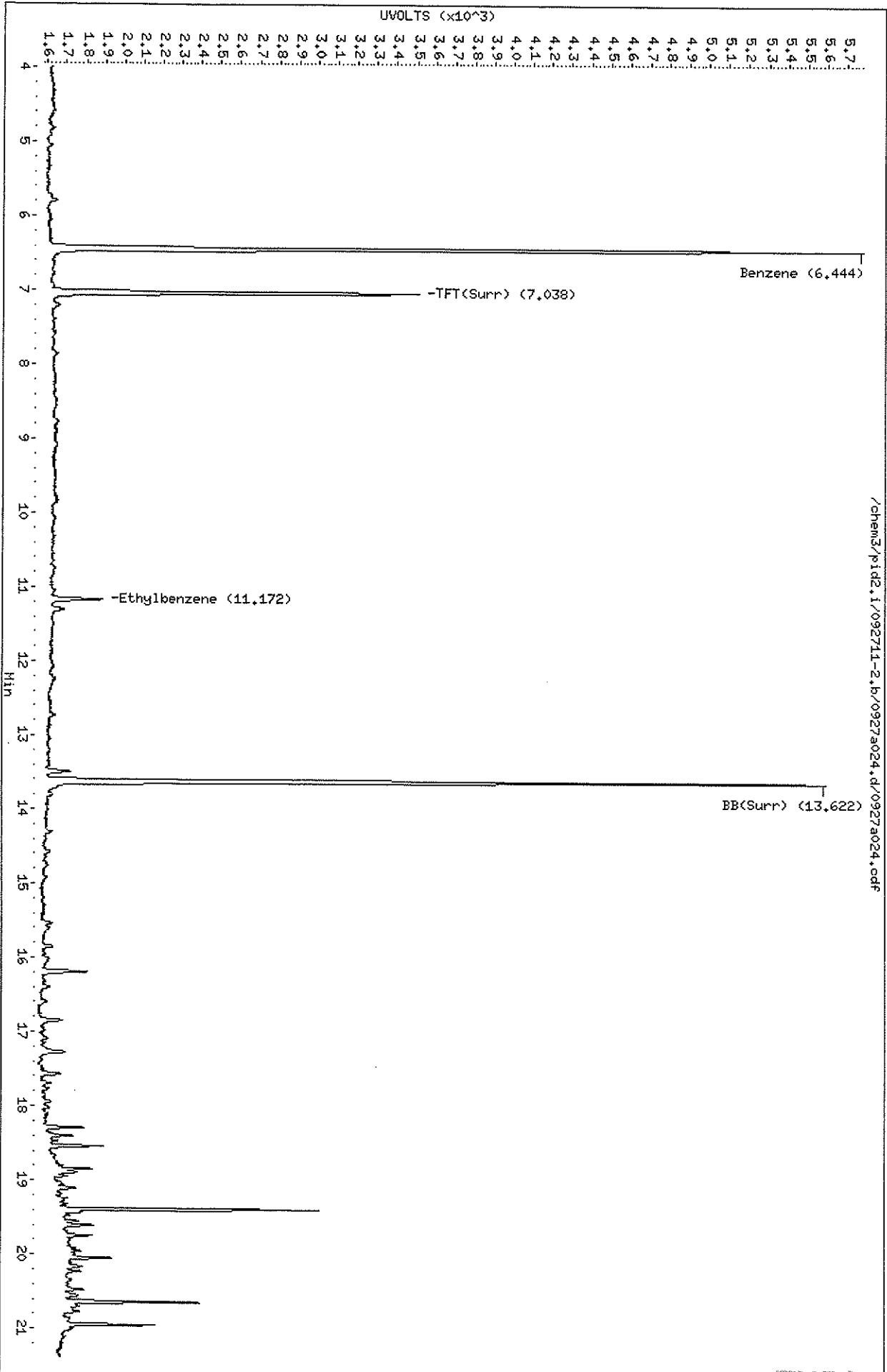


092711-1

Data File: /chem3/pid2.i/092711-2.b/0927a024.d
Date: 28-SEP-2011 00:01
Client ID: KJ-B38-7
Sample Info: TH91H

Column phase: RTX 502-2 PID

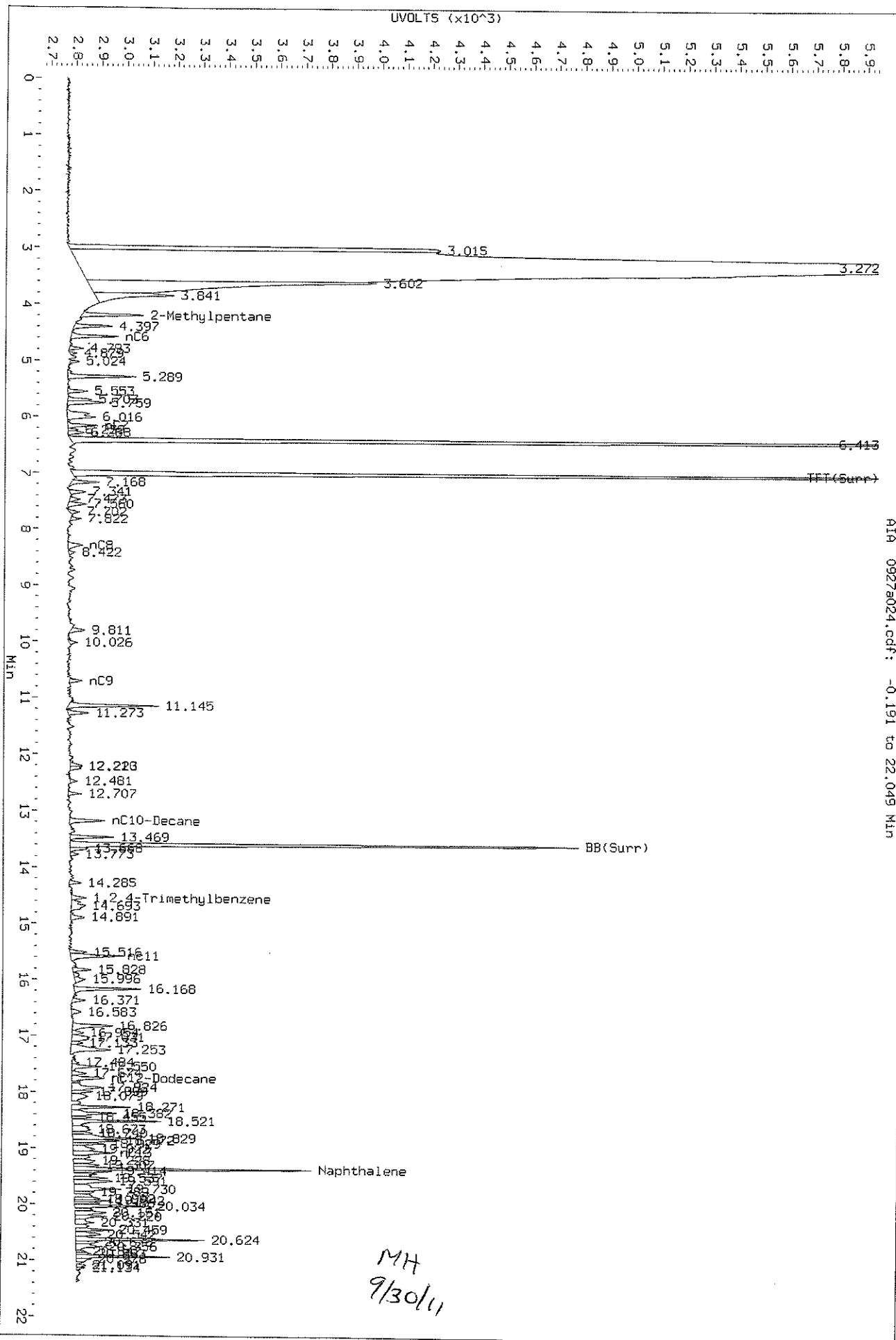
Instrument: pid2.i
Operator: HS
Column diameter: 0.18



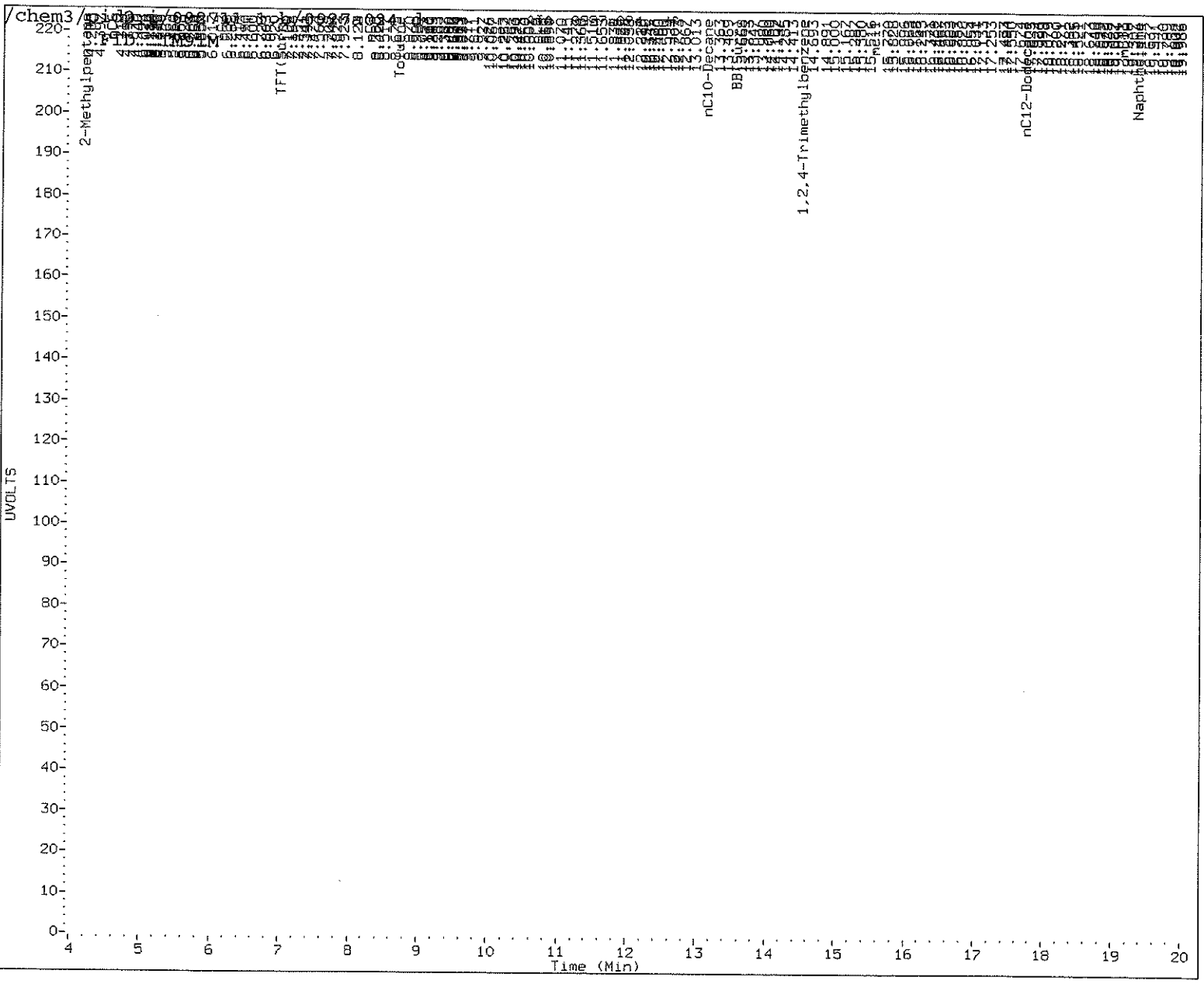
/chem3/pid2.i/092711-2.b/0927a024.d/0927a024.cdf

092711-2.b/0927a024.cdf

Data File: /chem3/pid2.1/092711-1.b/0927a024.d/0927a024.cdf
Injection Date: 28-SEP-2011 00:01
Instrument: pid2.1
Client Sample ID: KJ-B39-7



0927a024.cdf: -0.191 to 22.049 Min



MANUAL INTEGRATION

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: MH Date: 9/30/11

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: KJ-B38-13
SAMPLE

Lab Sample ID: TM91N

LIMS ID: 11-20424

Matrix: Soil

Data Release Authorized: *WJ3*

Reported: 09/30/11

QC Report No: TM91-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Event: NA

Date Sampled: 09/16/11

Date Received: 09/19/11

Date Analyzed: 09/28/11 00:30

Instrument/Analyst: PID2/MH

Purge Volume: 5.0 mL

Sample Amount: 82 mg-dry-wt

Percent Moisture: 17.9%

CAS Number	Analyte	RL	Result
71-43-2	Benzene	15	1,500
108-88-3	Toluene	15	< 15 U
100-41-4	Ethylbenzene	15	< 15 U
179601-23-1	m,p-Xylene	31	< 31 U
95-47-6	o-Xylene	15	< 15 U

Gasoline Range Hydrocarbons	6.1	< 6.1 U	GAS ID ---
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BETX Surrogate Recovery

Trifluorotoluene	85.4%
Bromobenzene	91.1%

Gasoline Surrogate Recovery

Trifluorotoluene	87.6%
Bromobenzene	91.5%

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

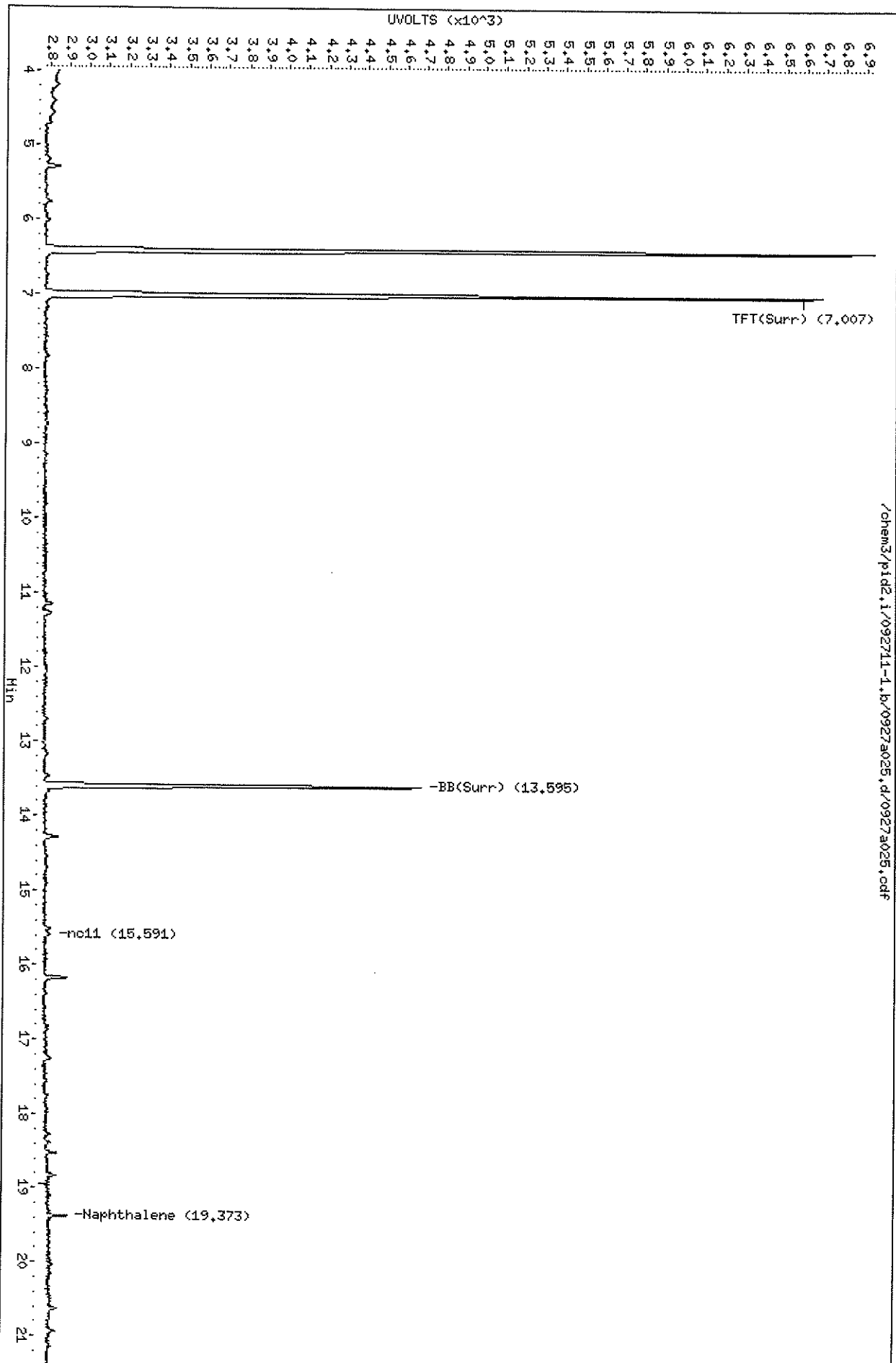
Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

Data File: /chem3/pid2.i/092711-1.b/0927a025.d
Date: 28-SEP-2011 00:30
Client ID: KJ-B38-13
Sample Info: TH91N

Column phase: RTX 502-2 FID

/chem3/pid2.i/092711-1.b/0927a025.d/0927a025.cdf

Instrument: pid2.i
Operator: HS
Column diameter: 0.18



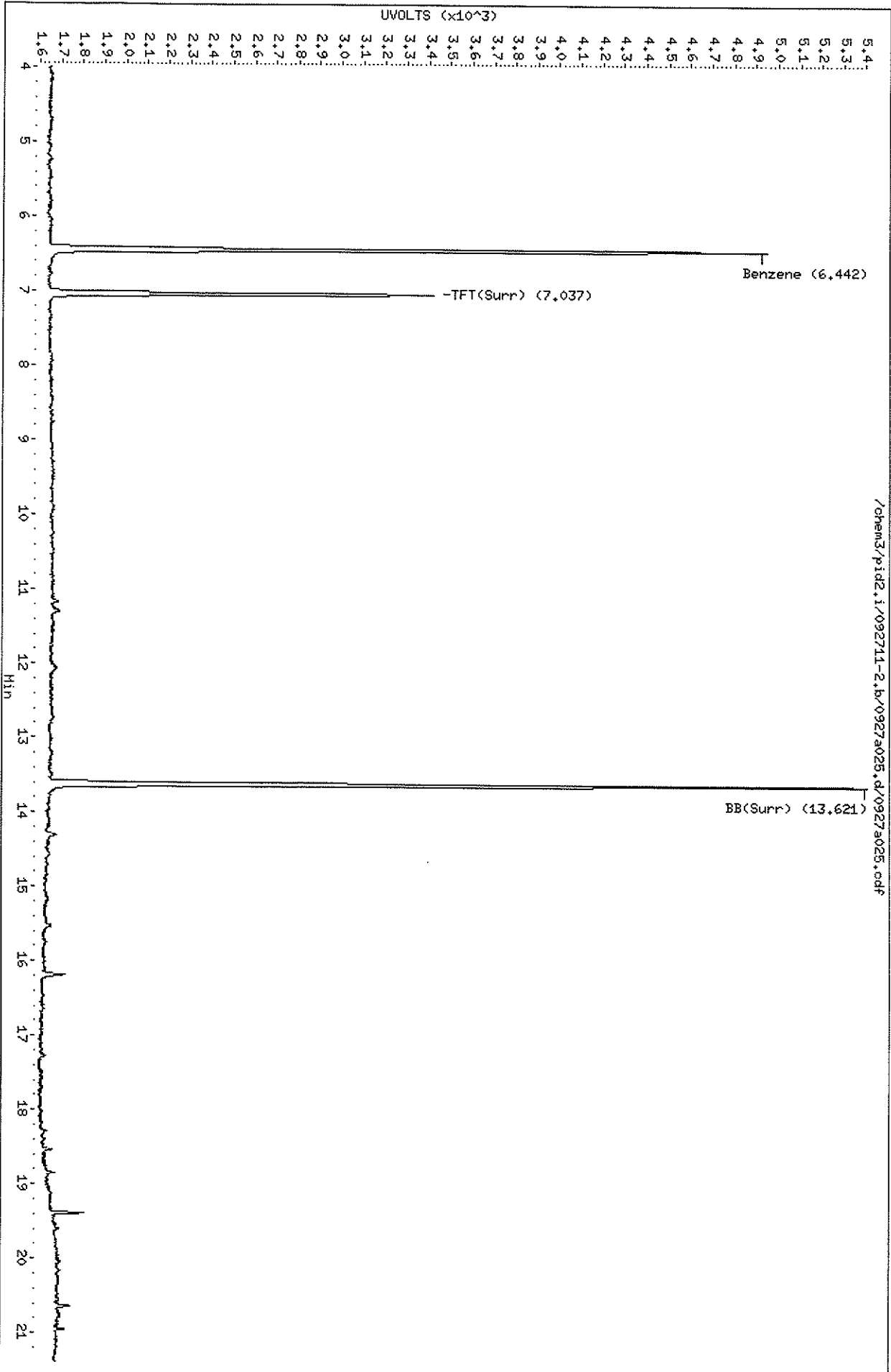
11-10-11 11:00 AM

Data File: /chem3/pid2.i/092711-2.b/0927a025.d
Date : 28-SEP-2011 00:30
Client ID: KJ-B38-13
Sample Info: TH91N

Column phase: RTX 502-2 PID

/chem3/pid2.i/092711-2.b/0927a025.d/0927a025.cdf

Instrument: pid2.i
Operator: MS
Column diameter: 0.18



TH91: 0927 001

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: KJ-B39-8

SAMPLE

Lab Sample ID: TM910

LIMS ID: 11-20425

Matrix: Soil

Data Release Authorized: *VN*

Reported: 09/30/11

QC Report No: TM91-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Event: NA

Date Sampled: 09/16/11

Date Received: 09/19/11

Date Analyzed: 09/28/11 00:58

Instrument/Analyst: PID2/MH

Purge Volume: 5.0 mL

Sample Amount: 83 mg-dry-wt

Percent Moisture: 16.9%

CAS Number	Analyte	RL	Result
71-43-2	Benzene	15	2,900
108-88-3	Toluene	15	24
100-41-4	Ethylbenzene	15	70
179601-23-1	m,p-Xylene	30	230
95-47-6	o-Xylene	15	< 15 U

Gasoline Range Hydrocarbons 6.0 7.8 GAS ID GRO

BETX Surrogate Recovery

Trifluorotoluene	83.4%
Bromobenzene	89.4%

Gasoline Surrogate Recovery

Trifluorotoluene	85.7%
Bromobenzene	89.1%

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

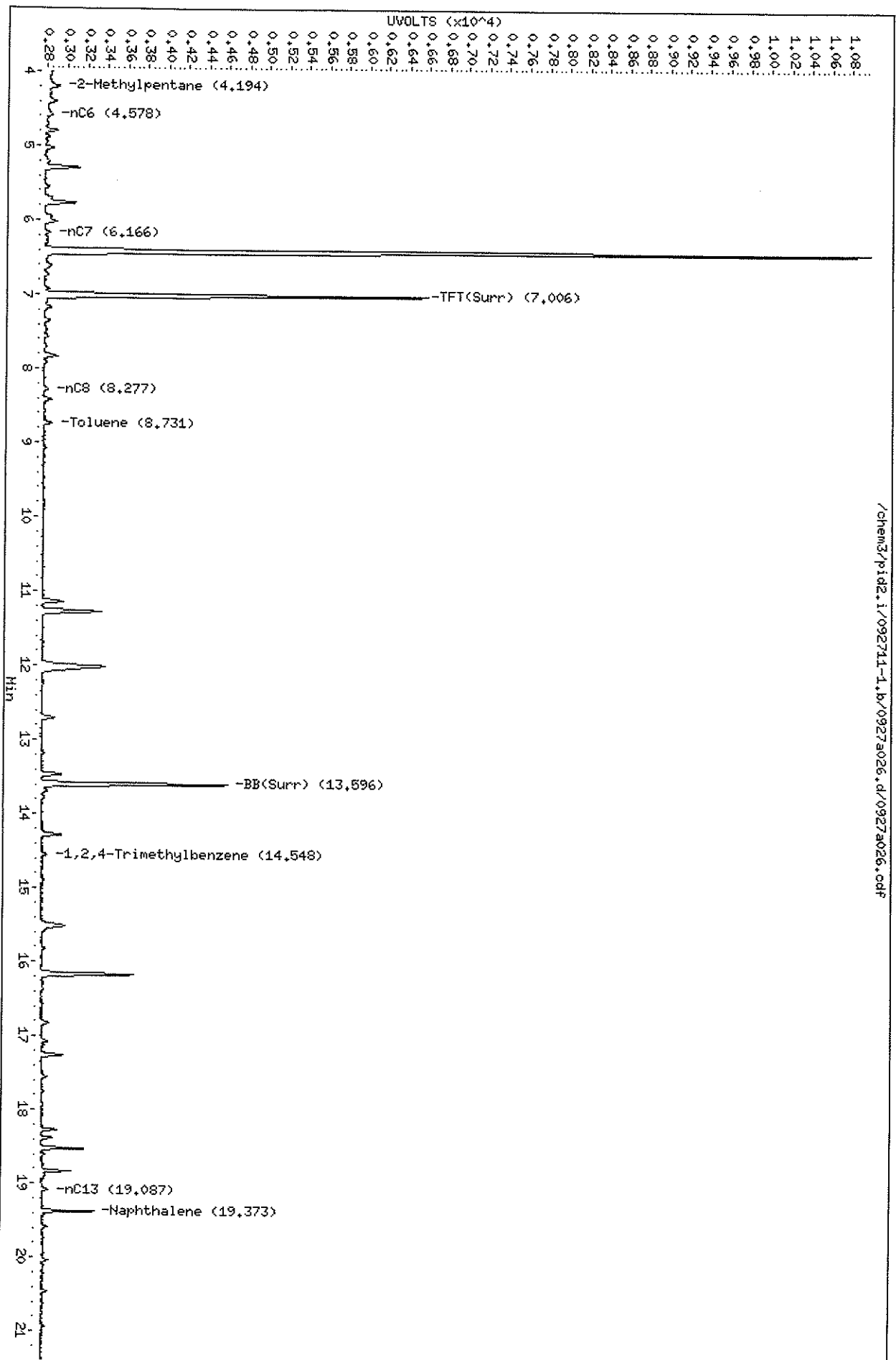
Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

Data File: /chem3/pid2.i/092711-1.b/0927a026.d
Date: 28-SEP-2011 00:58
Client ID: KJ-B39-8
Sample Info: TH910

Column phase: RTX 502-2 FID

/chem3/pid2.i/092711-1.b/0927a026.d/0927a026.cdf

Instrument: pid2.i
Operator: MS
Column diameter: 0.18



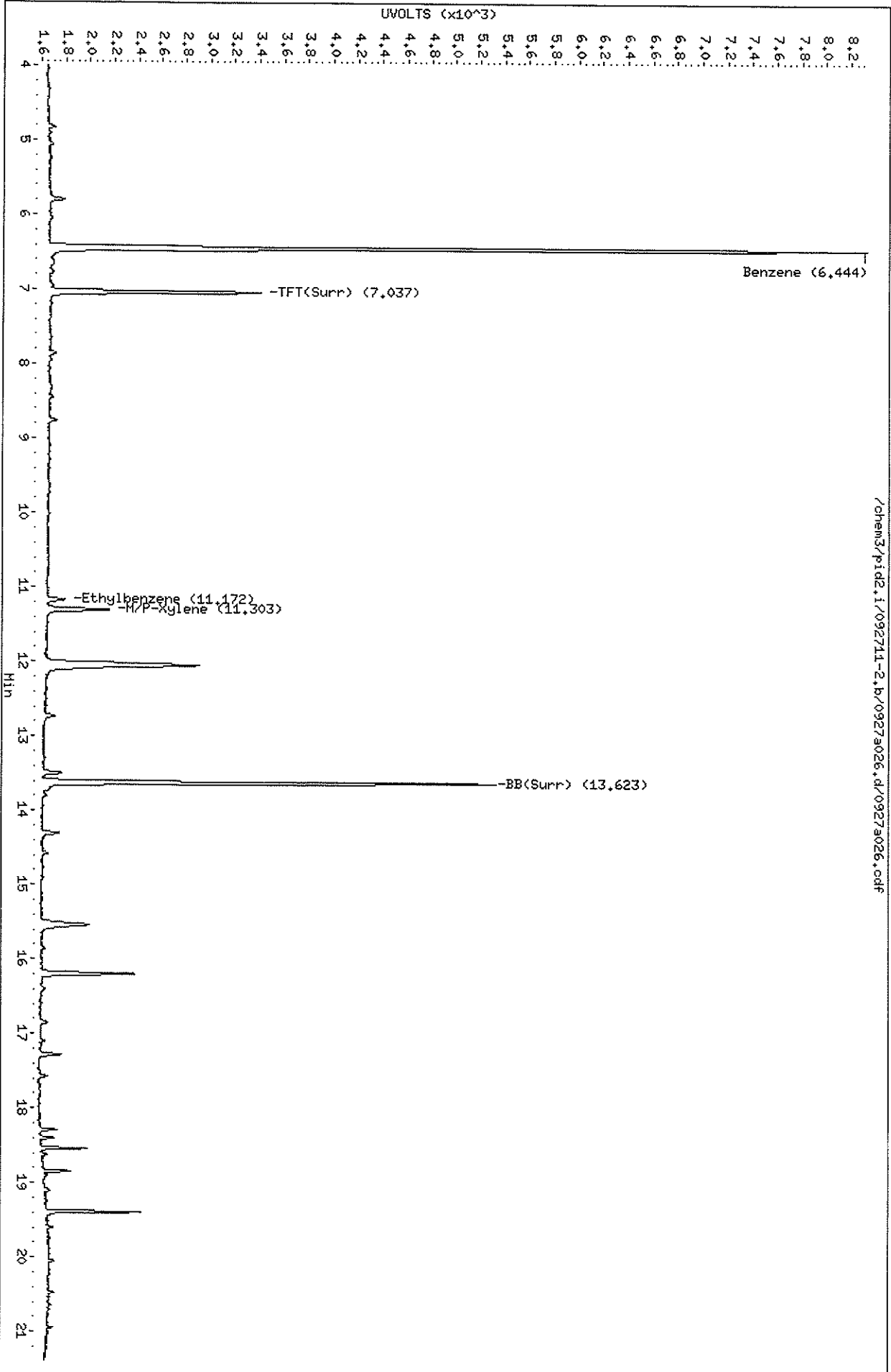
TH910 : 092711-1

Data File: /chem3/pid2.i/092711-2.b/0927a026.d
Date: 28-SEP-2011 00:58
Client ID: KJ-B39-8
Sample Info: TH910

Column phase: RTX 502-2 PID

/chem3/pid2.i/092711-2.b/0927a026.d/0927a026.cdf

Instrument: pid2.i
Operator: HS
Column diameter: 0.18



TH910 : 0010 41

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: KJ-B40-4
SAMPLE

Lab Sample ID: TM91P

LIMS ID: 11-20426

Matrix: Soil

Data Release Authorized: *VD*

Reported: 09/30/11

QC Report No: TM91-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Event: NA

Date Sampled: 09/16/11

Date Received: 09/19/11

Date Analyzed: 09/28/11 01:26

Instrument/Analyst: PID2/MH

Purge Volume: 5.0 mL

Sample Amount: 88 mg-dry-wt

Percent Moisture: 10.8%

CAS Number	Analyte	RL	Result
71-43-2	Benzene	14	< 14 U
108-88-3	Toluene	14	< 14 U
100-41-4	Ethylbenzene	14	< 14 U
179601-23-1	m,p-Xylene	29	< 29 U
95-47-6	o-Xylene	14	< 14 U
Gasoline Range Hydrocarbons			5.7 < 5.7 U

GAS ID

BETX Surrogate Recovery

Trifluorotoluene	89.8%
Bromobenzene	94.7%

Gasoline Surrogate Recovery

Trifluorotoluene	92.0%
Bromobenzene	95.0%

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: KJ-B41-6

SAMPLE

Lab Sample ID: TM91Q

LIMS ID: 11-20427

Matrix: Soil

Data Release Authorized: *WIS*

Reported: 09/30/11

QC Report No: TM91-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Event: NA

Date Sampled: 09/16/11

Date Received: 09/19/11

Date Analyzed: 09/28/11 01:54

Instrument/Analyst: PID2/MH

Purge Volume: 5.0 mL

Sample Amount: 15 mg-dry-wt

Percent Moisture: 19.7%

CAS Number	Analyte	RL	Result
71-43-2	Benzene	84	700
108-88-3	Toluene	84	290
100-41-4	Ethylbenzene	84	2,100
179601-23-1	m,p-Xylene	170	5,000
95-47-6	o-Xylene	84	390

Gasoline Range Hydrocarbons	33	1,000	GAS ID GAS/GRO
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BETX Surrogate Recovery

Trifluorotoluene	87.1%
Bromobenzene	95.5%

Gasoline Surrogate Recovery

Trifluorotoluene	93.7%
Bromobenzene	117%

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

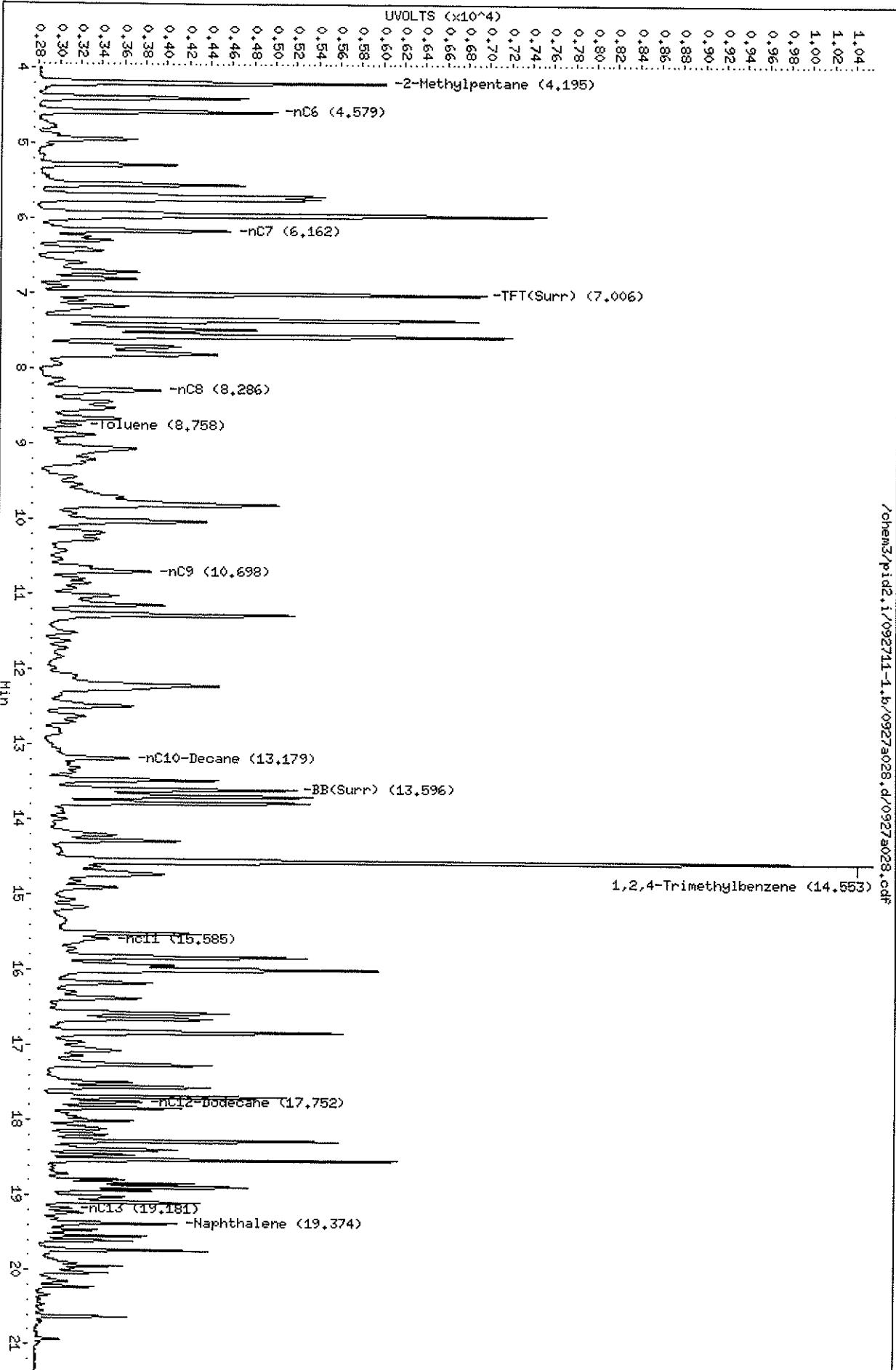
Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

Data File: /chem3/pid2.1/092711-1.b/0927a028.d
Date: 28-SEP-2011 01:54
Client ID: KJ-B41-6
Sample Info: TM910

Column phase: RTX 502-2 FID

Instrument: pid2.1
Operator: MS
Column diameter: 0.18



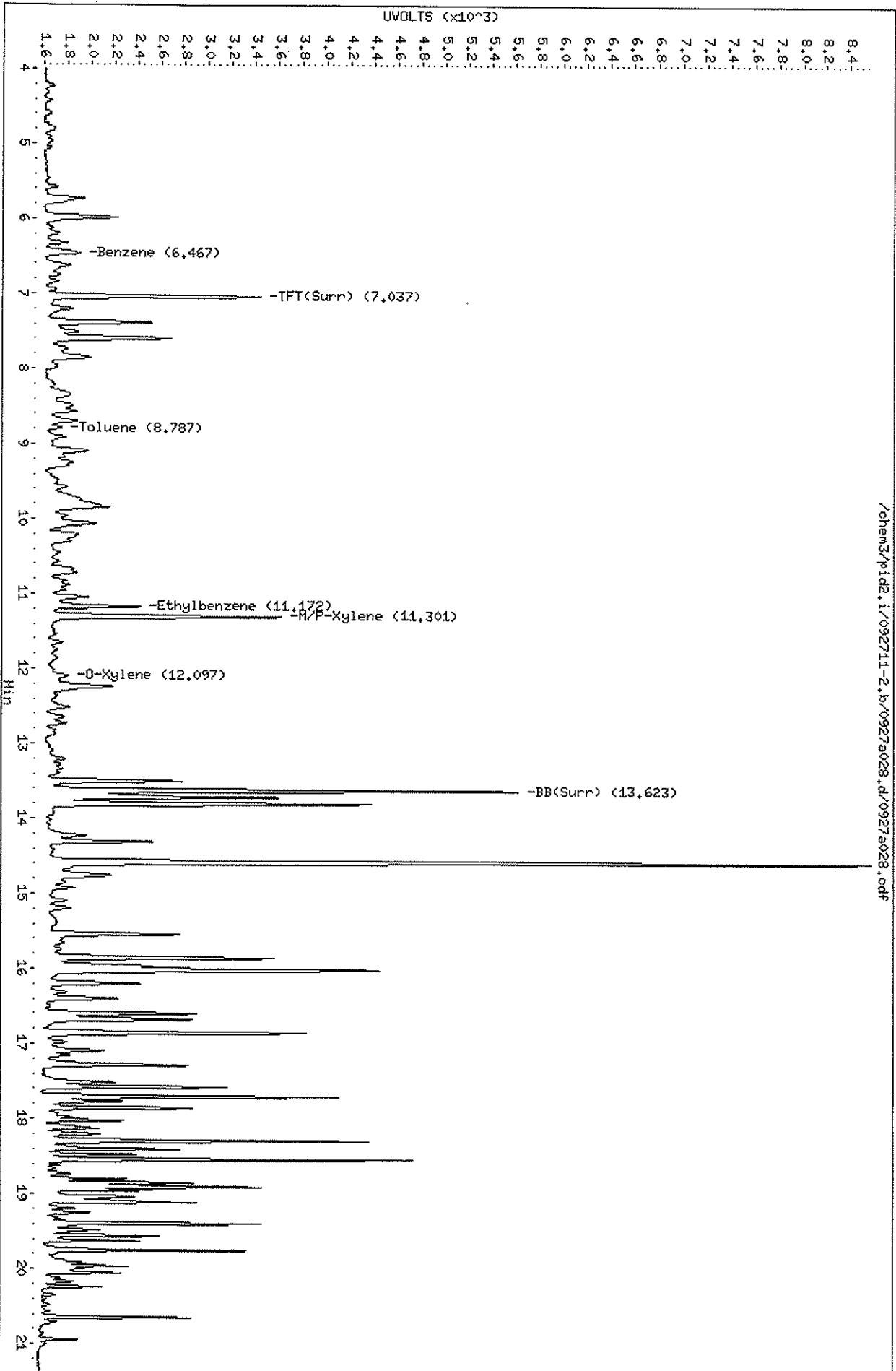
TM01 : 09 10 00

Data File: /chem3/pid2.i/092711-2.b/0927a028.d
Date: 28-SEP-2011 01:54
Client ID: KJ-B41-6
Sample Info: TH91Q

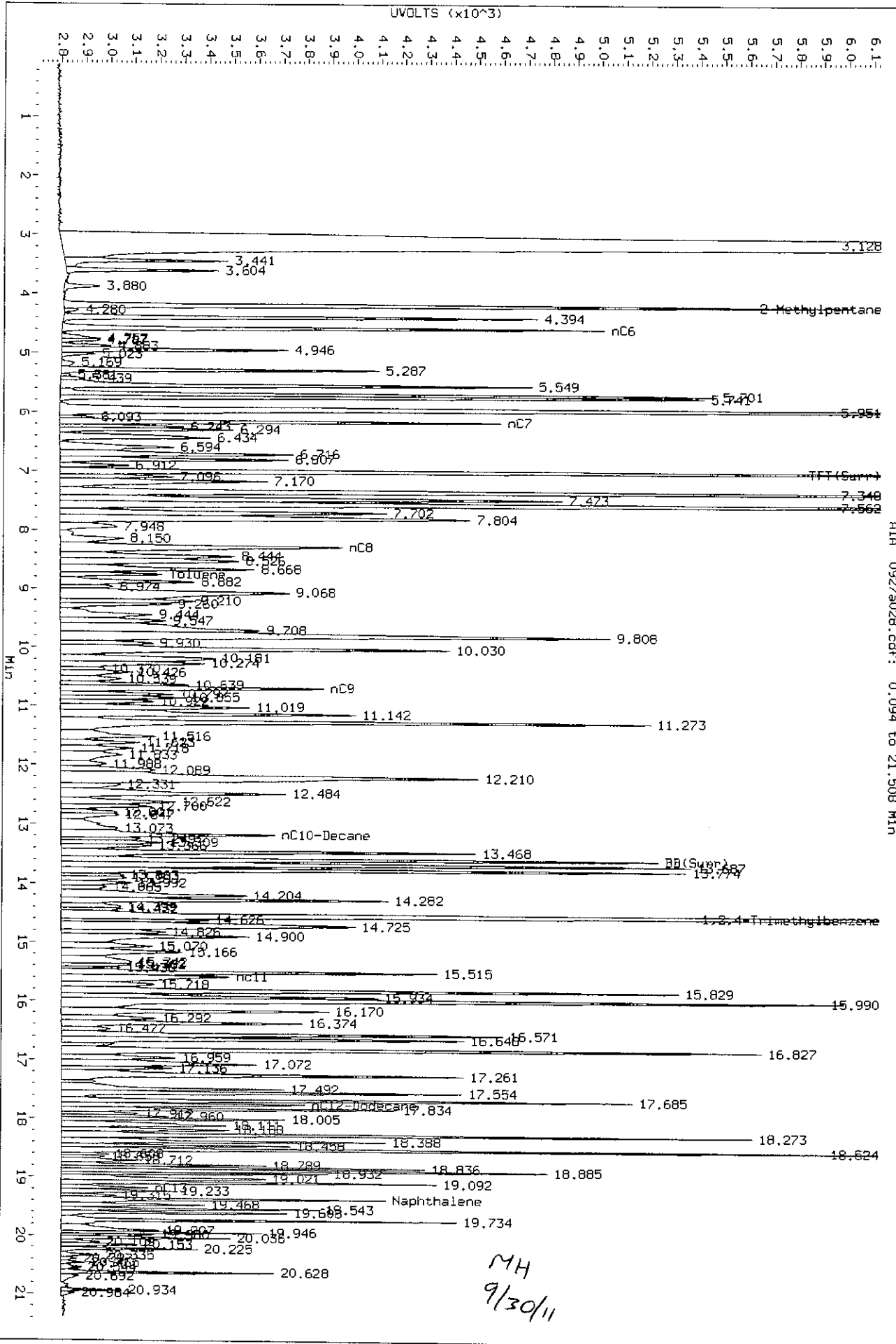
Column phase: RTX 502-2 PID

/chem3/pid2.i/092711-2.b/0927a028.d/0927a028.cdf

Instrument: pid2.i
Operator: HS
Column diameter: 0.18

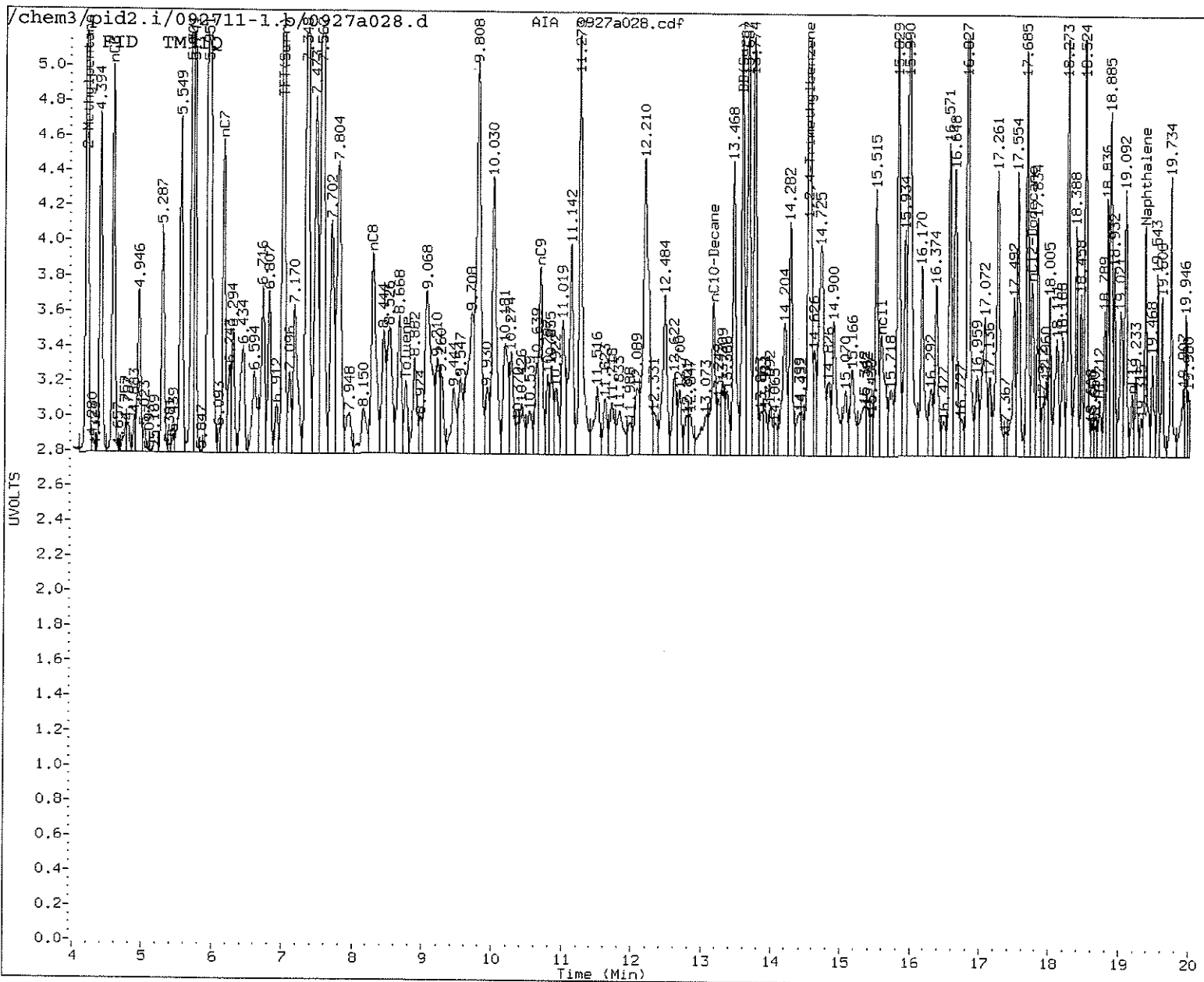


Data File: /chem3/pld2_1/0927211-1.b/0927a028.d/0927a028.cdf
 Injection Date: 28-SEP-2011 01:54
 Instrument: pld2.1
 Client Sample ID: KJ-B41-6



AIA 0927a028.cdf: 0.094 to 21.508 MIN

MH
9/30/11



MANUAL INTEGRATION

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: MH Date: 9/30/11

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021EMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: KJ-B42-8

SAMPLE

Lab Sample ID: TM91R

LIMS ID: 11-20428

Matrix: Soil

Data Release Authorized: *VTS*

Reported: 09/30/11

QC Report No: TM91-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Event: NA

Date Sampled: 09/16/11

Date Received: 09/19/11

Date Analyzed: 09/28/11 02:22

Instrument/Analyst: PID2/MH

Purge Volume: 5.0 mL

Sample Amount: 68 mg-dry-wt

Percent Moisture: 19.8%

CAS Number	Analyte	RL	Result
71-43-2	Benzene	18	360
108-88-3	Toluene	18	< 18 U
100-41-4	Ethylbenzene	18	550
179601-23-1	m,p-Xylene	37	98
95-47-6	o-Xylene	18	< 18 U

Gasoline Range Hydrocarbons	7.3	12	GAS ID GRO
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BETX Surrogate Recovery

Trifluorotoluene	90.0%
Bromobenzene	94.6%

Gasoline Surrogate Recovery

Trifluorotoluene	92.0%
Bromobenzene	95.4%

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

Data File: /chem3/pid2.i/092711-2.b/0927a029.d

Date: 28-SEP-2011 02:22

Client ID: KJ-B42-8

Sample Info: TM91R

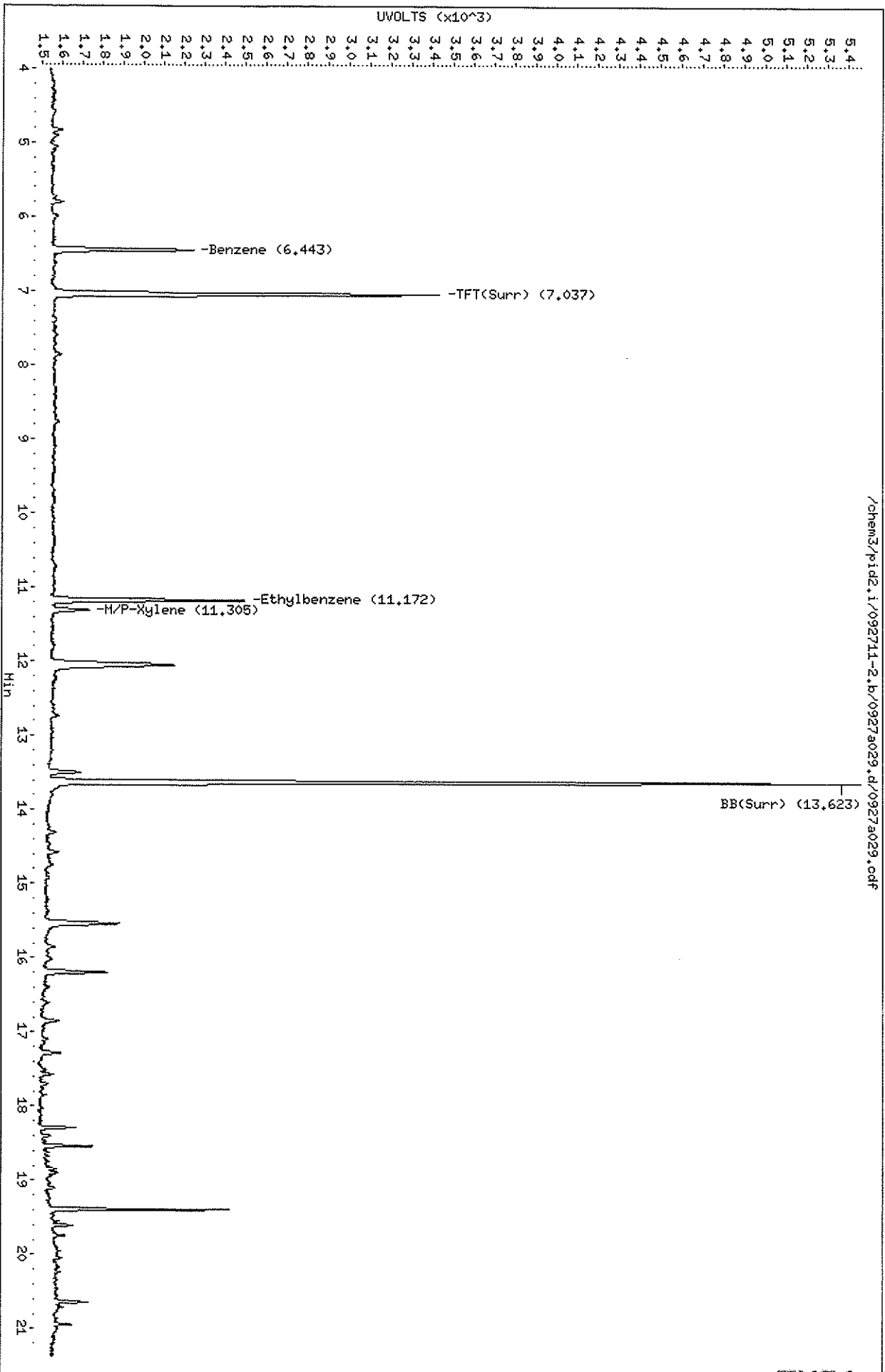
Column phase: RTX 502-2 PID

Instrument: pid2.i

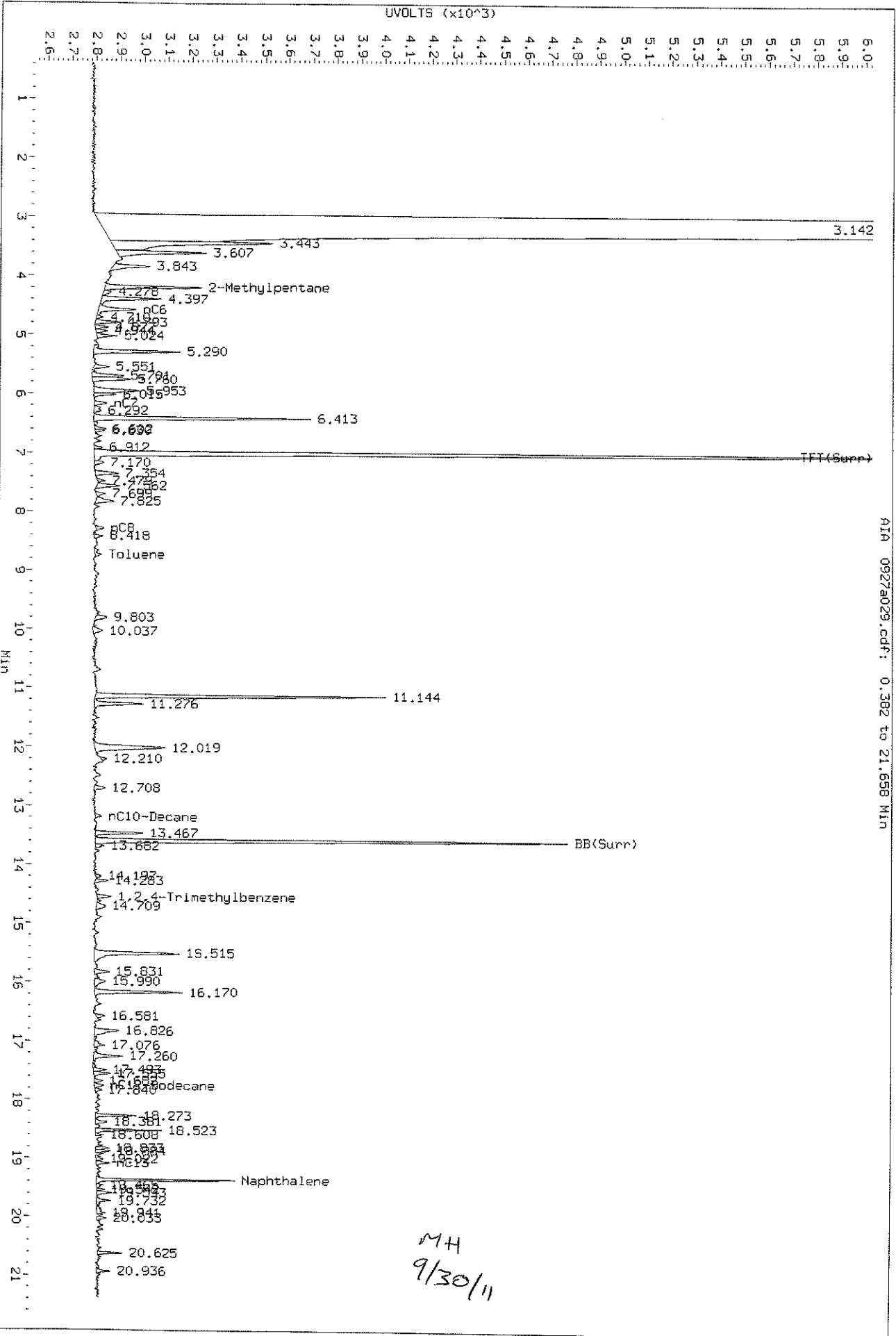
Operator: MS

Column diameter: 0.18

Page 1

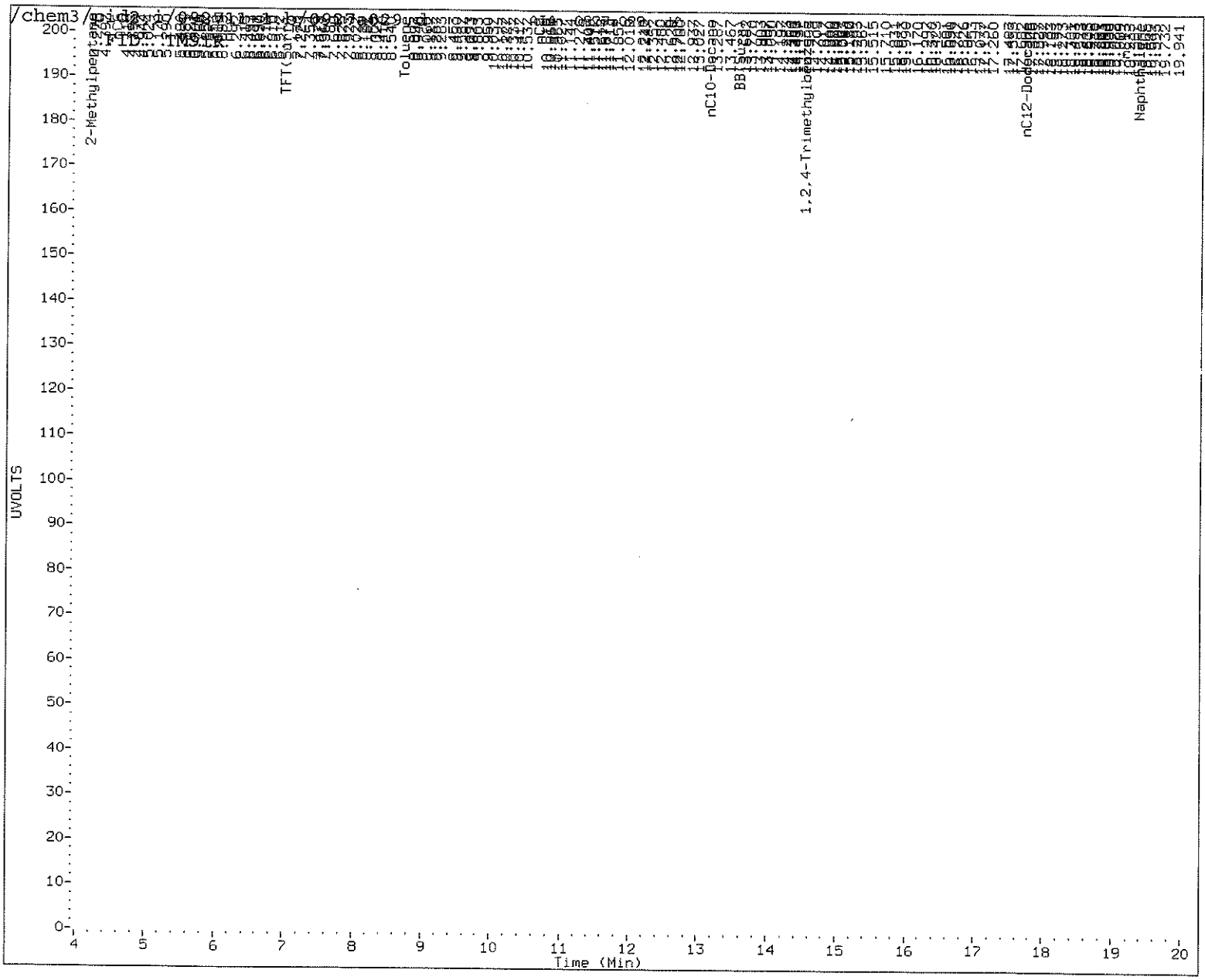


Data File: /chem3/pid2.1/092711-1.h/0927a029.d/0927a029.cdf
Injection Date: 28-SEP-2011 02:22
Instrument: pid2.1
Client Sample ID: KJ-B42-8



AIN 0927a029.cdf: 0.382 to 21.658 Min

MH
9/30/11



MANUAL INTEGRATION

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: MH Date: 9/30/14

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: KJ-B43-4

SAMPLE

Lab Sample ID: TM91S

LIMS ID: 11-20429

Matrix: Soil

Data Release Authorized: *VTS*

Reported: 09/30/11

QC Report No: TM91-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Event: NA

Date Sampled: 09/16/11

Date Received: 09/19/11

Date Analyzed: 09/28/11 02:51

Instrument/Analyst: PID2/MH

Purge Volume: 5.0 mL

Sample Amount: 18 mg-dry-wt

Percent Moisture: 14.8%

CAS Number	Analyte	RL	Result
71-43-2	Benzene	70	< 70 U
108-88-3	Toluene	70	< 70 U
100-41-4	Ethylbenzene	70	360
179601-23-1	m,p-Xylene	140	< 140 U
95-47-6	o-Xylene	70	490

Gasoline Range Hydrocarbons	28	940	GAS ID GRO
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BETX Surrogate Recovery

Trifluorotoluene	89.7%
Bromobenzene	103%

Gasoline Surrogate Recovery

Trifluorotoluene	96.9%
Bromobenzene	124%

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

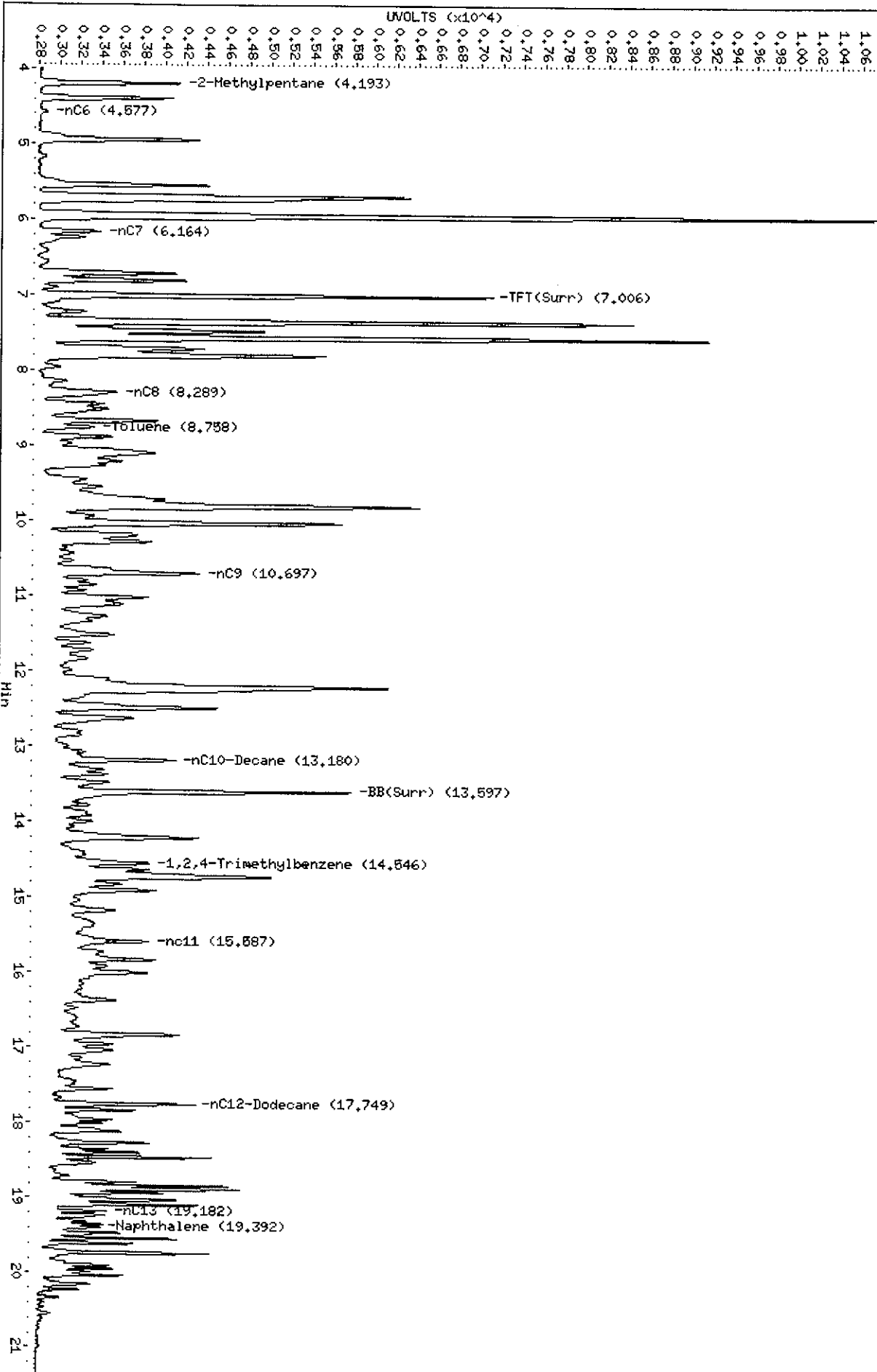
Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

Data File: /chem3/pid2.1/092711-1.b/0927a030.d
Date: 28-SEP-2011 02:51
Client ID: KJ-P43-4
Sample Info: TM91S

Column phase: RTX 502-2 FID

Instrument: pid2.1
Operator: HS
Column diameter: 0.18

/chem3/pid2.1/092711-1.b/0927a030.d/0927a030.pdf

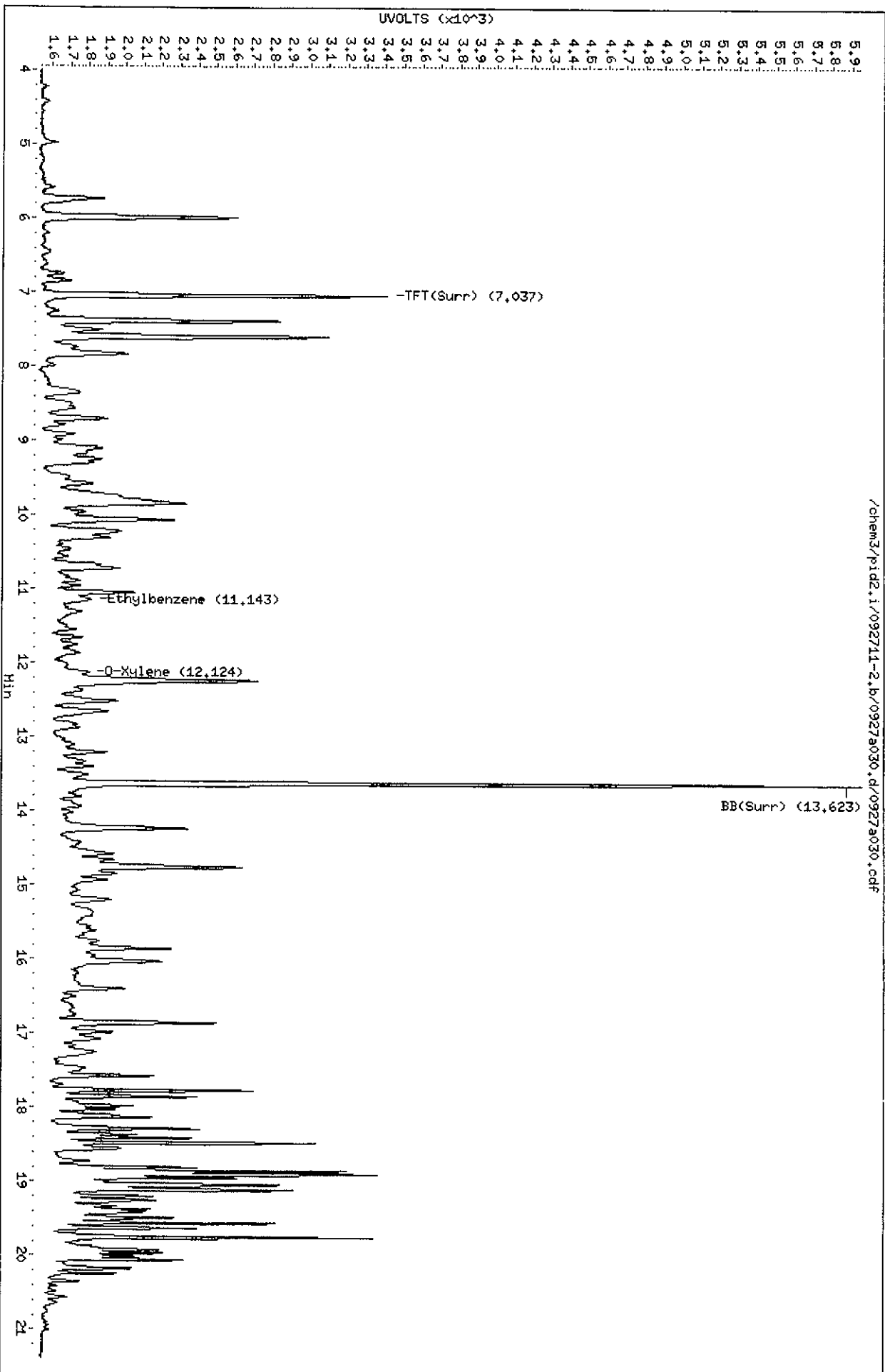


Data File: /chem3/pid2.1/092711-2.b/0927a030.d
Date: 28-SEP-2011 02:51
Client ID: KJ-B43-4
Sample Info: TH91S

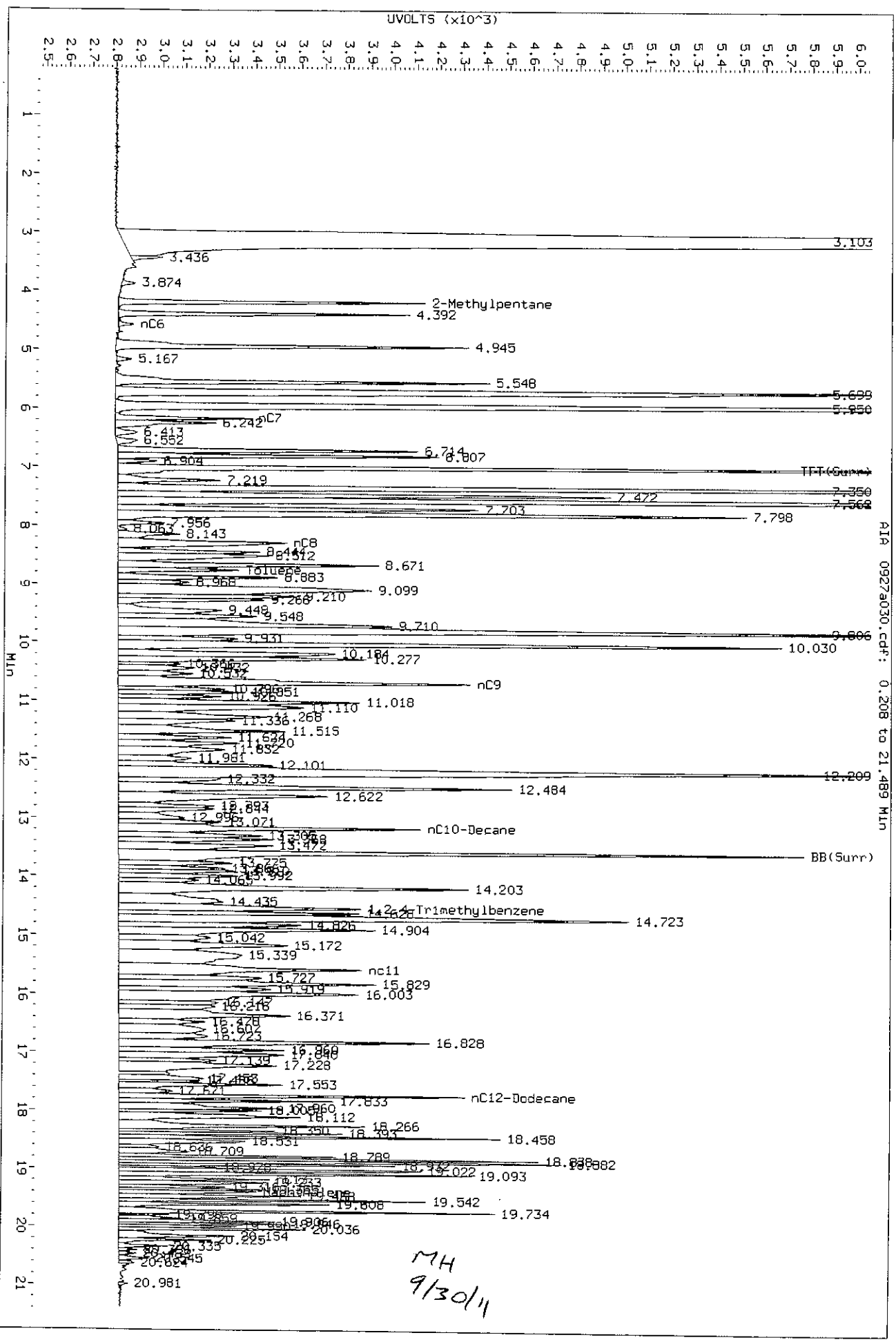
Column phase: RTX 802-2 PID

/chem3/pid2.1/092711-2.b/0927a030.d/0927a030.cdf

Instrument: pid2.1
Operator: HS
Column diameter: 0.18



Data File: /chem3/pid2_1/092711-1.b/0927a030.d/0927a030.cdf
 Injection Date: 28-SEP-2011 02:51
 Instrument: pid2.1
 Client Sample ID: KJ-B43-4



AIR 0927a030.cdf: 0.208 to 21.489 Min

MH
9/30/11

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: KJ-B44-4

SAMPLE

Lab Sample ID: TM91T

LIMS ID: 11-20430

Matrix: Soil

Data Release Authorized: **VTB**

Reported: 09/30/11

QC Report No: TM91-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Event: NA

Date Sampled: 09/16/11

Date Received: 09/19/11

Date Analyzed: 09/28/11 07:04

Instrument/Analyst: PID2/MH

Purge Volume: 5.0 mL

Sample Amount: 84 mg-dry-wt

Percent Moisture: 17.5%

CAS Number	Analyte	RL	Result
71-43-2	Benzene	15	120
108-88-3	Toluene	15	98
100-41-4	Ethylbenzene	15	< 15 U
179601-23-1	m,p-Xylene	30	240
95-47-6	o-Xylene	15	180

Gasoline Range Hydrocarbons	6.0	320	GAS ID	GRO
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BETX Surrogate Recovery

Trifluorotoluene	118%
Bromobenzene	126%

Gasoline Surrogate Recovery

Trifluorotoluene	115%
Bromobenzene	129%

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

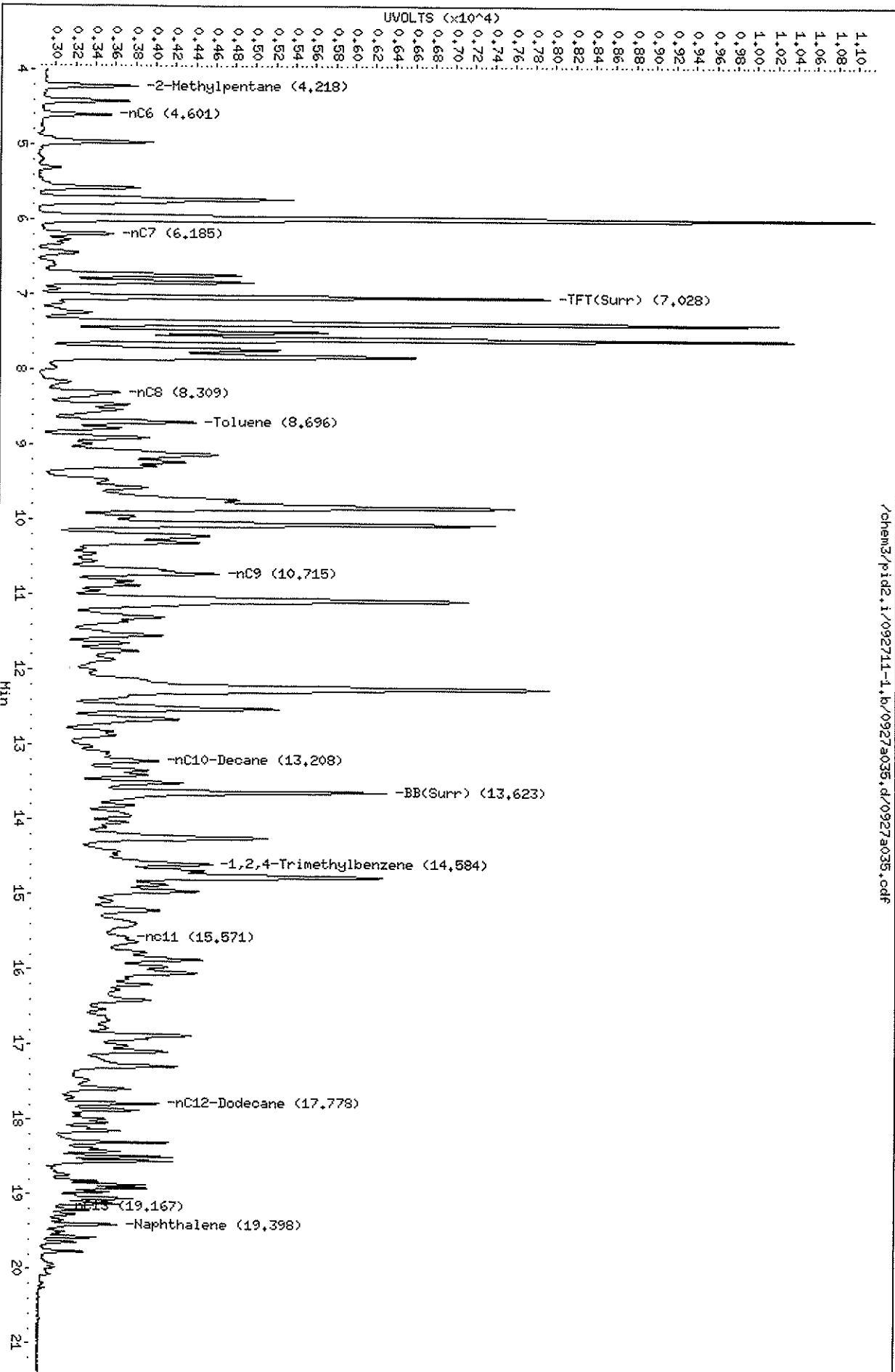
Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

Data File: /chem3/pid2.i/092711-1.b/0927a035.d
Date : 28-SEP-2011 07:04
Client ID: KJ-B44-4
Sample Info: TH91T

Column phase: RTX 502-2 FID

/chem3/pid2.i/092711-1.b/0927a035.d/0927a035.cdf

Instrument: pid2.i
Operator: MS
Column diameter: 0.18

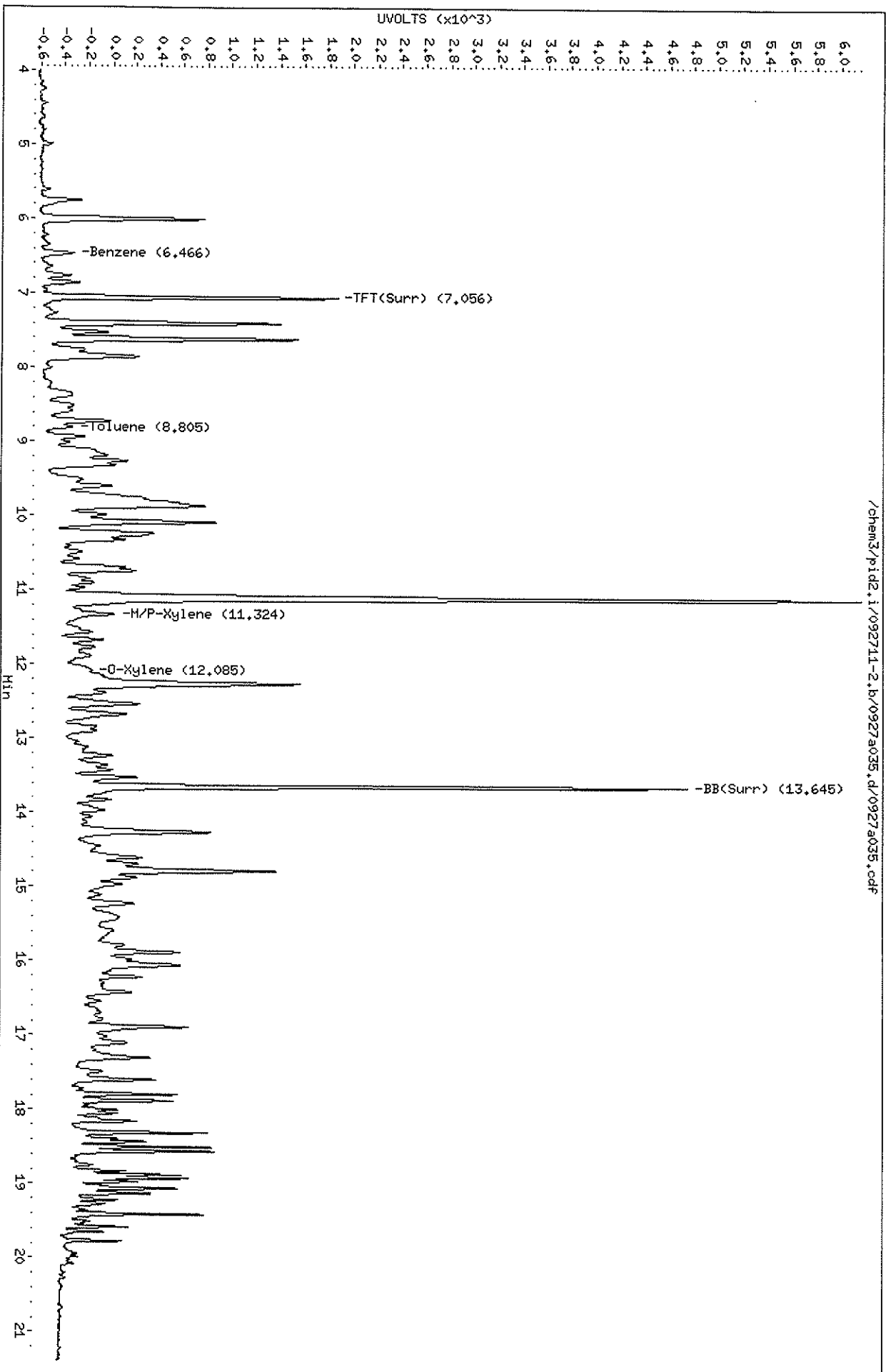


Data File: /chem3/pid2.i/092711-2.b/0927a035.d
Date: 28-SEP-2011 07:04
Client ID: KJ-B44-4
Sample Info: TM91T

Column phase: RTX 502-2 PID

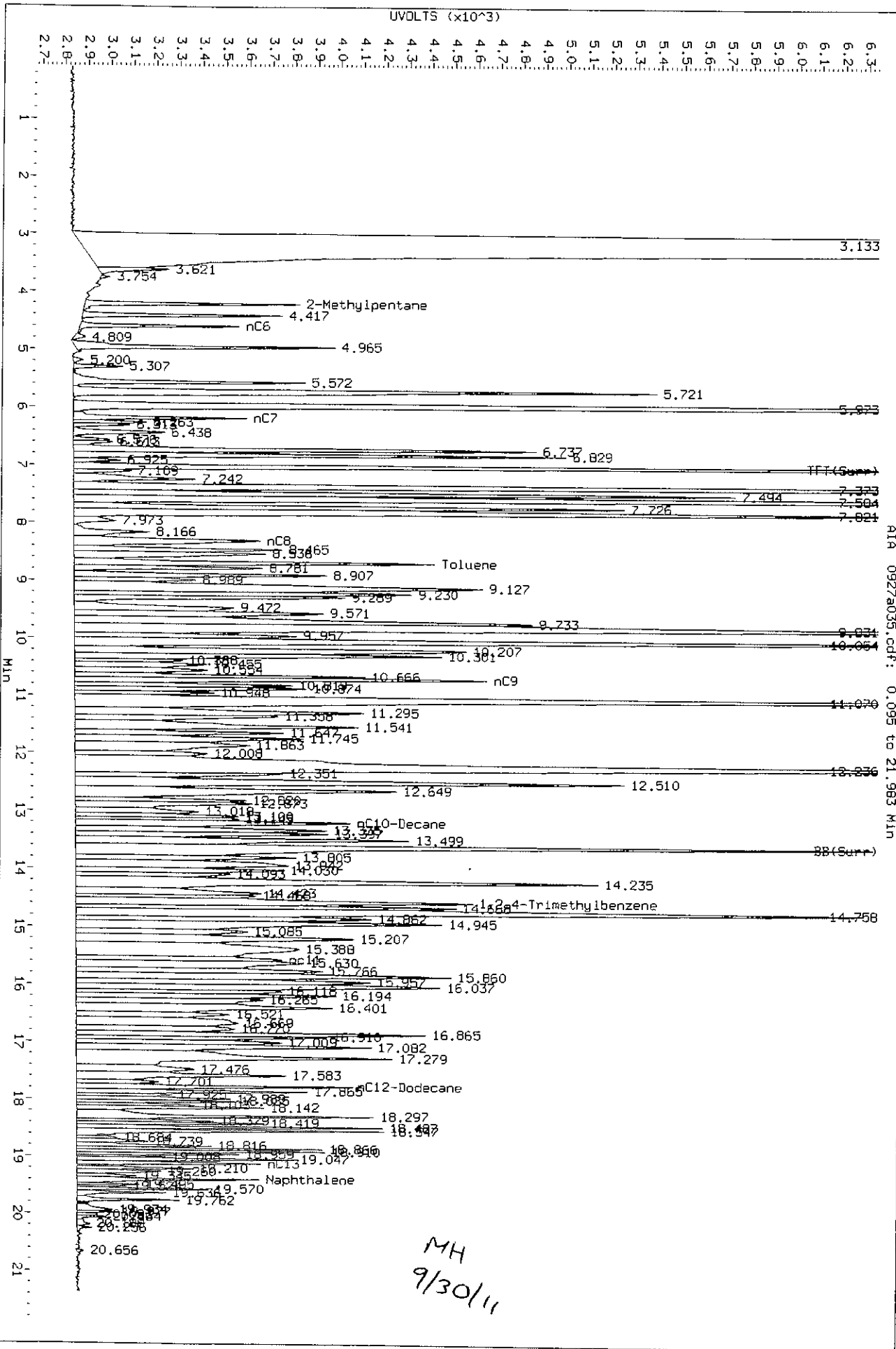
/chem3/pid2.i/092711-2.b/0927a035.d/0927a035.cdf

Instrument: pid2.i
Operator: MS
Column diameter: 0.18



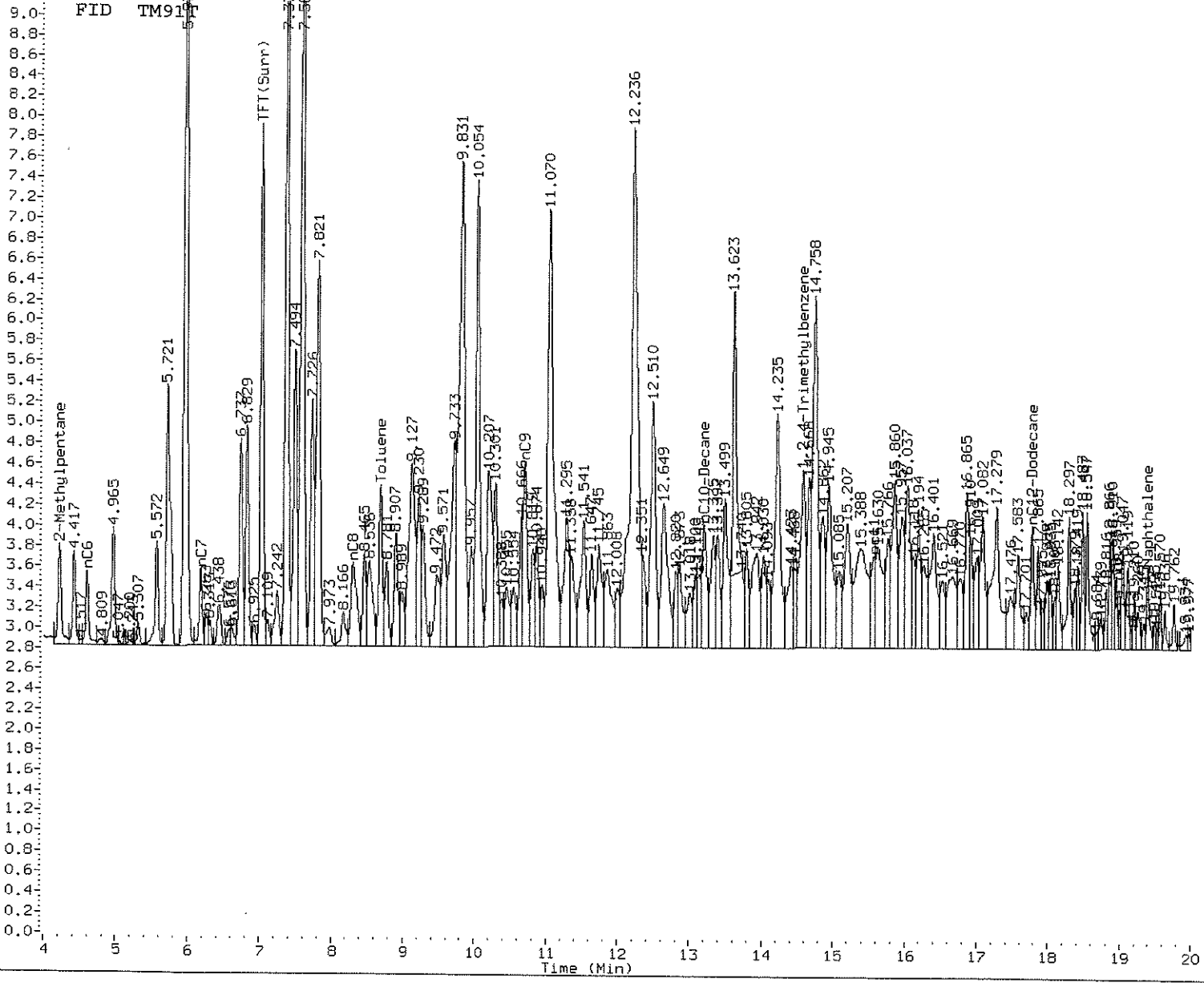
21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4

Data File: /chem3/pid2.1/092711-1.b/0927a035.d/0927a035.cdf
Injection Date: 26-SEP-2011 07:04
Instrument: pid2.1
Client Sample ID: KJ-B44-4



AIA 0927a035.cdf: 0.095 to 21.983 Min

UVOLTS



MANUAL INTEGRATION

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: MH

Date: 9/30/14



ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: Trip Blank
SAMPLE

Lab Sample ID: TM91U

LIMS ID: 11-20431

Matrix: Water

Data Release Authorized: *VTD*

Reported: 09/30/11

QC Report No: TM91-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Event: NA

Date Sampled: 09/15/11

Date Received: 09/19/11

Date Analyzed: 09/27/11 22:37

Instrument/Analyst: PID2/MH

Purge Volume: 5.0 mL

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
71-43-2	Benzene	0.25	< 0.25 U
108-88-3	Toluene	0.25	< 0.25 U
100-41-4	Ethylbenzene	0.25	< 0.25 U
179601-23-1	m,p-Xylene	0.50	< 0.50 U
95-47-6	o-Xylene	0.25	< 0.25 U

	RL	Result	GAS ID
Gasoline Range Hydrocarbons	0.10	< 0.10 U	---

BETX Surrogate Recovery

Trifluorotoluene	98.4%
Bromobenzene	101%

Gasoline Surrogate Recovery

Trifluorotoluene	100%
Bromobenzene	101%

BETX values reported in µg/L (ppb)
Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

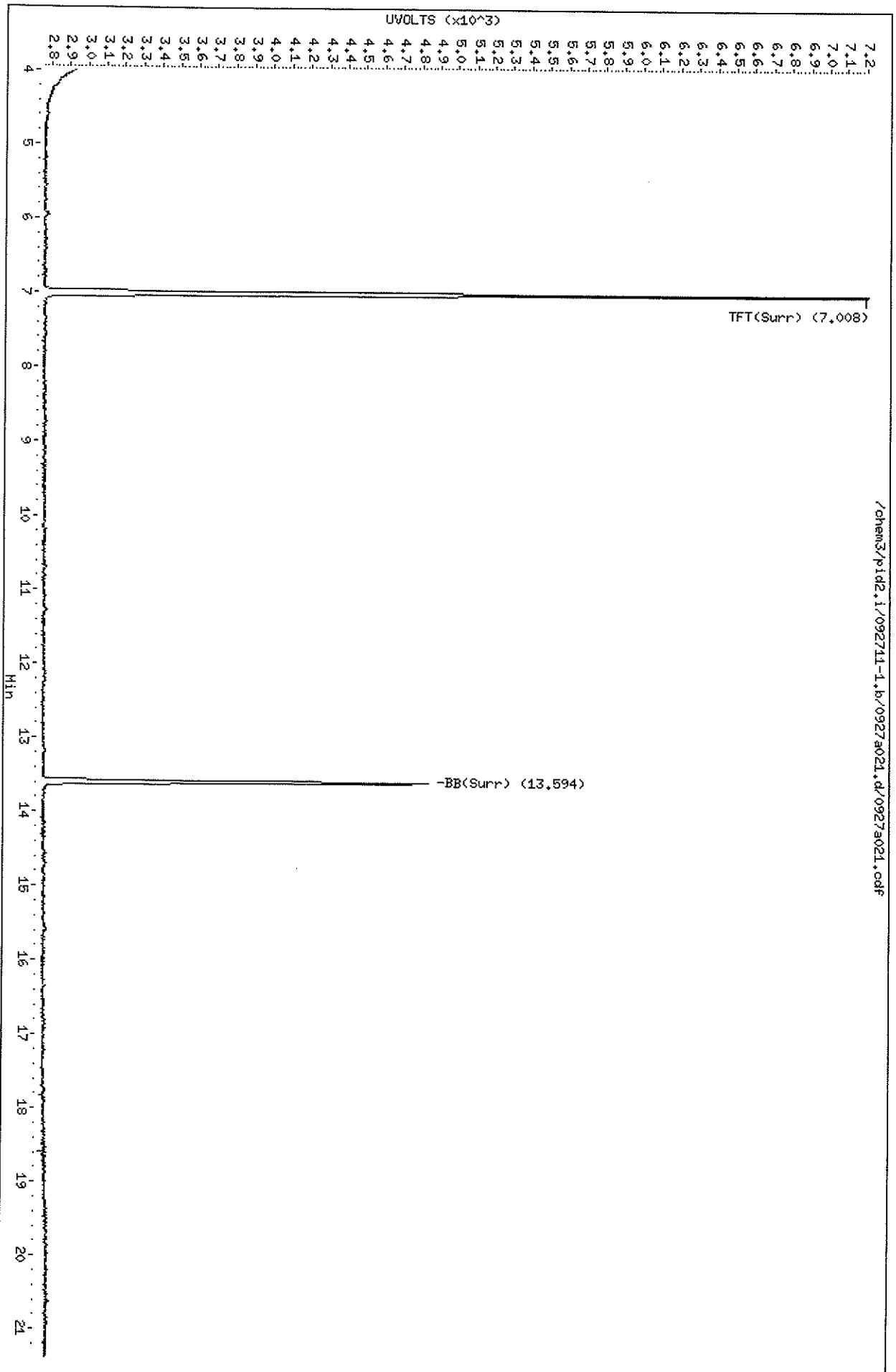
GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Data File: /chem3/pid2.1/092711-1.b/0927a021.d
Date : 27-SEP-2011 22:37
Client ID: Trip Blank
Sample Info: TH91U

Column phase: RTX 502-2 FID

Instrument: pid2.i
Operator: HS
Column diameter: 0.18



/chem3/pid2.1/092711-1.b/0927a021.d/0927a021.odf

02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

TPHG SOIL SURROGATE RECOVERY SUMMARY

ARI Job: TM91
Matrix: Soil

QC Report No: TM91-Kennedy Jenks Consultants
Project: Ecology Cornet Bay
Event: NA

Client ID	BFB	TFT	BBZ	TOT OUT
MB-092711	NA	97.7%	99.6%	0
LCS-092711	NA	102%	102%	0
LCS-092711	NA	103%	102%	0
KJ-B33-4	NA	94.4%	93.3%	0
KJ-MW4-13	NA	99.3%	99.9%	0
KJ-MW5-12	NA	99.4%	100%	0
KJ-MW6-4	NA	99.6%	112%	0
KJ-MW6-14	NA	96.2%	96.8%	0
KJ-MW7-5	NA	97.7%	97.4%	0
KJ-B34-5	NA	101%	114%	0
KJ-B35-4	NA	100%	109%	0
KJ-B35-8	NA	96.8%	99.8%	0
KJ-B101	NA	99.1%	111%	0
KJ-B36-8	NA	89.4%	105%	0
KJ-B37-9	NA	92.8%	96.9%	0
KJ-B38-7	NA	100%	113%	0
KJ-B38-7 DL	NA	91.8%	96.6%	0
KJ-B38-13	NA	87.6%	91.5%	0
KJ-B39-8	NA	85.7%	89.1%	0
KJ-B40-4	NA	92.0%	95.0%	0
KJ-B41-6	NA	93.7%	117%	0
KJ-B42-8	NA	92.0%	95.4%	0
KJ-B43-4	NA	96.9%	124%	0
KJ-B44-4	NA	115%	129%	0

	LCS/MB LIMITS	QC LIMITS
(BFB) = Bromofluorobenzene	(70-130)	(70-130)
(TFT) = Trifluorotoluene	(80-120)	(66-123)
(BBZ) = Bromobenzene	(80-120)	(62-130)

Log Number Range: 11-20411 to 11-20430

FORM II TPHG

Page 1 for TM91

BETX SOIL SURROGATE RECOVERY SUMMARY

ARI Job: TM91
Matrix: Soil

QC Report No: TM91-Kennedy Jenks Consultants
Project: Ecology Cornet Bay
Event: NA

Client ID	TFT	BBZ	TOT OUT
MB-092711	97.3%	99.6%	0
LCS-092711	100%	100%	0
LCS-092711	98.9%	99.6%	0
KJ-B33-4	97.2%	97.3%	0
KJ-MW4-13	104%	103%	0
KJ-MW5-12	102%	105%	0
KJ-MW6-4	101%	101%	0
KJ-MW6-14	93.0%	94.9%	0
KJ-MW7-5	94.0%	97.2%	0
KJ-B34-5	98.2%	100%	0
KJ-B35-4	96.3%	101%	0
KJ-B35-8	95.1%	99.3%	0
KJ-B101	95.9%	101%	0
KJ-B36-8	85.8%	92.9%	0
KJ-B37-9	90.4%	96.6%	0
KJ-B38-7	106%	108%	0
KJ-B38-7 DL	90.6%	96.2%	0
KJ-B38-13	85.4%	91.1%	0
KJ-B39-8	83.4%	89.4%	0
KJ-B40-4	89.8%	94.7%	0
KJ-B41-6	87.1%	95.5%	0
KJ-B42-8	90.0%	94.6%	0
KJ-B43-4	89.7%	103%	0
KJ-B44-4	118%	126%	0

	LCS/MB LIMITS	QC LIMITS
(TFT) = Trifluorotoluene	(80-120)	(68-124)
(BBZ) = Bromobenzene	(77-120)	(62-134)

Log Number Range: 11-20411 to 11-20430

FORM II BETX

Page 1 for TM91

TM91 : 00150

TPHG WATER SURROGATE RECOVERY SUMMARY

ARI Job: TM91
Matrix: Water

QC Report No: TM91-Kennedy Jenks Consultants
Project: Ecology Cornet Bay
Event: NA

Client ID	TFT	BBZ	TOT OUT
Trip Blank	100%	101%	0

	LCS/MB LIMITS	QC LIMITS
(TFT) = Trifluorotoluene	(80-120)	(80-120)
(BBZ) = Bromobenzene	(80-120)	(80-120)

Log Number Range: 11-20431 to 11-20431

FORM II TPHG

Page 1 for TM91

TM91 : 00100

BETX WATER SURROGATE RECOVERY SUMMARY

ARI Job: TM91
Matrix: Water

QC Report No: TM91-Kennedy Jenks Consultants
Project: Ecology Cornet Bay
Event: NA

<u>Client ID</u>	<u>TFT</u>	<u>BBZ</u>	<u>TOT OUT</u>
Trip Blank	98.4%	101%	0

	<u>LCS/MB LIMITS</u>	<u>QC LIMITS</u>
(TFT) = Trifluorotoluene	(79-120)	(80-120)
(BBZ) = Bromobenzene	(79-120)	(80-120)

Log Number Range: 11-20431 to 11-20431

FORM II BETX

Page 1 for TM91

TM91 : 00101

Sample ID: LCS-092711
 LAB CONTROL SAMPLE

Lab Sample ID: LCS-092711
 LIMS ID: 11-20411
 Matrix: Soil
 Data Release Authorized: V
 Reported: 09/30/11

QC Report No: TM91-Kennedy Jenks Consultants
 Project: Ecology Cornet Bay
 Event: NA
 Date Sampled: NA
 Date Received: NA

Date Analyzed LCS: 09/27/11 14:02
 LCSD: 09/27/11 14:29
 Instrument/Analyst LCS: PID2/MH
 LCSD: PID2/MH

Purge Volume: 5.0 mL
 Sample Amount LCS: 100 mg-dry-wt
 LCSD: 100 mg-dry-wt

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Gasoline Range Hydrocarbons	49.0	50.0	98.0%	49.0	50.0	98.0%	0.0%

Reported in mg/kg (ppm)

RPD calculated using sample concentrations per SW846.

TPHG Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	102%	103%
Bromobenzene	102%	102%

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

Page 1 of 1

Sample ID: LCS-092711

LAB CONTROL SAMPLE

Lab Sample ID: LCS-092711

LIMS ID: 11-20411

Matrix: Soil

Data Release Authorized: *UM*

Reported: 09/30/11

QC Report No: TM91-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Event: NA

Date Sampled: NA

Date Received: NA

Date Analyzed LCS: 09/27/11 14:02

Purge Volume: 5.0 mL

LCSD: 09/27/11 14:29

Instrument/Analyst LCS: PID2/MH

Sample Amount LCS: 100 mg-dry-wt

LCSD: PID2/MH

LCSD: 100 mg-dry-wt

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Benzene	218	185	118%	232	185	125%	6.2%
Toluene	1910	1820	105%	2070	1820	114%	8.0%
Ethylbenzene	545	535	102%	585	535	109%	7.1%
m,p-Xylene	2020	2000	101%	2170	2000	108%	7.2%
o-Xylene	956	905	106%	1040	905	115%	8.4%

Reported in µg/kg (ppb)

RPD calculated using sample concentrations per SW846.

BETX Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	100%	98.9%
Bromobenzene	100%	99.6%

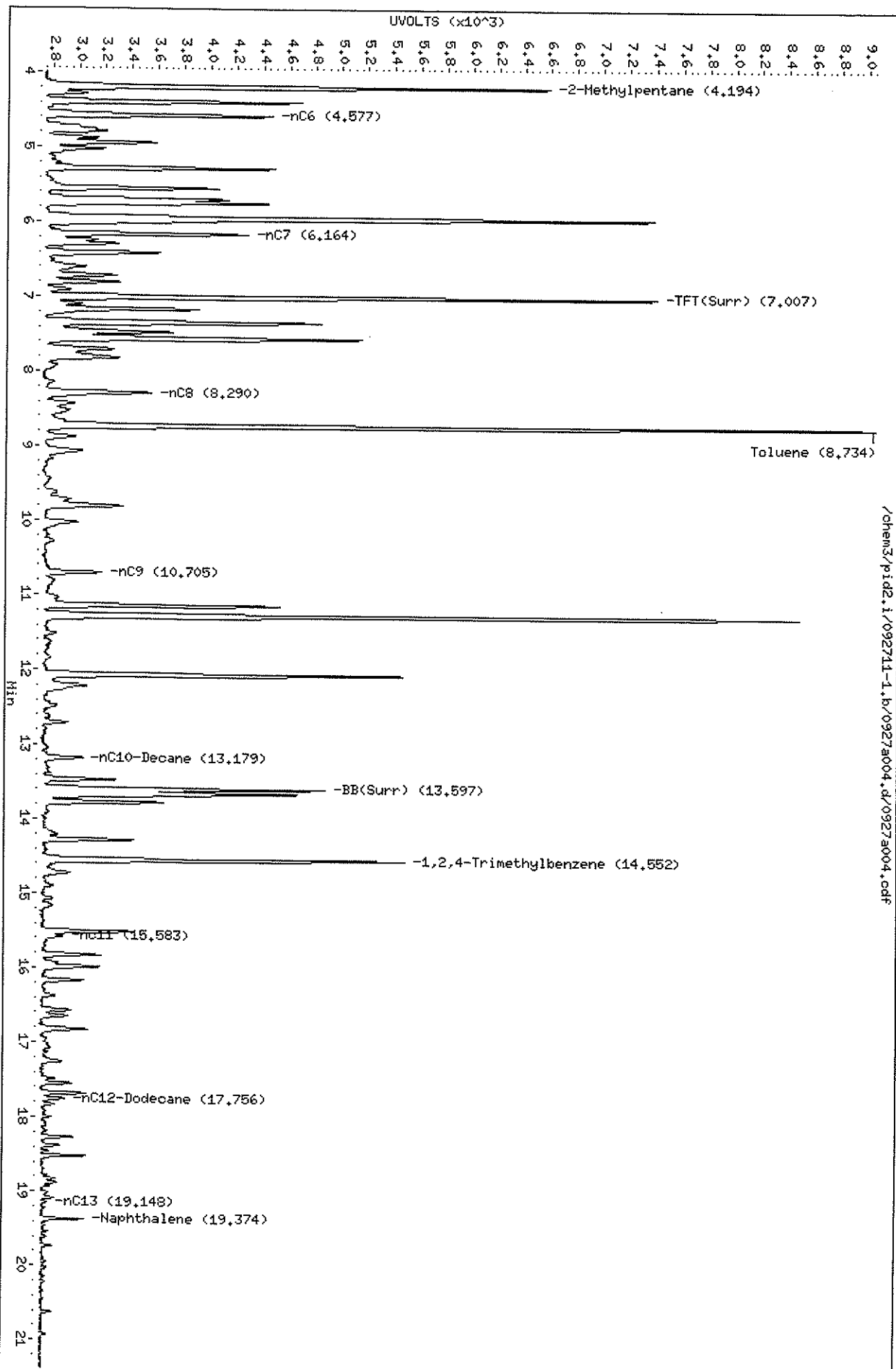
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Date: 27-SEP-2011 14:02
Client ID:
Sample Info: 09272011LCS

Column phase: RTX 502-2 FID

/chem3/pid2.i/092711-1.b/0927a004.d/0927a004.cdf

Instrument: pid2.i
Operator: MS
Column diameter: 0.18

Page 1

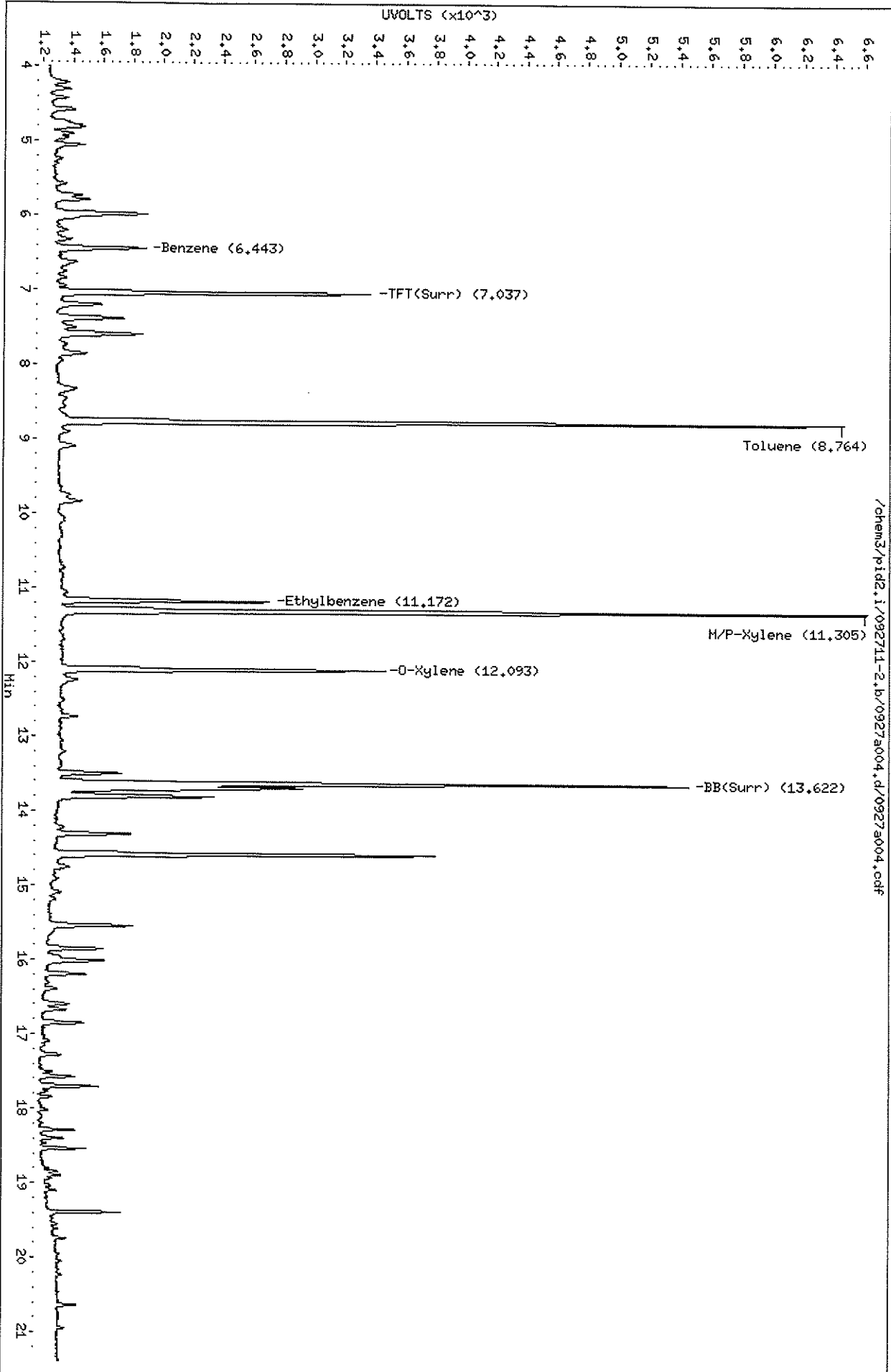


092711-1

Data File: /chem3/pid2.i/092711-2.b/0927a004.d
Date: 27-SEP-2011 14:02
Client ID:
Sample Info: 09272011LCS

Column phase: RTX 502-2 PID

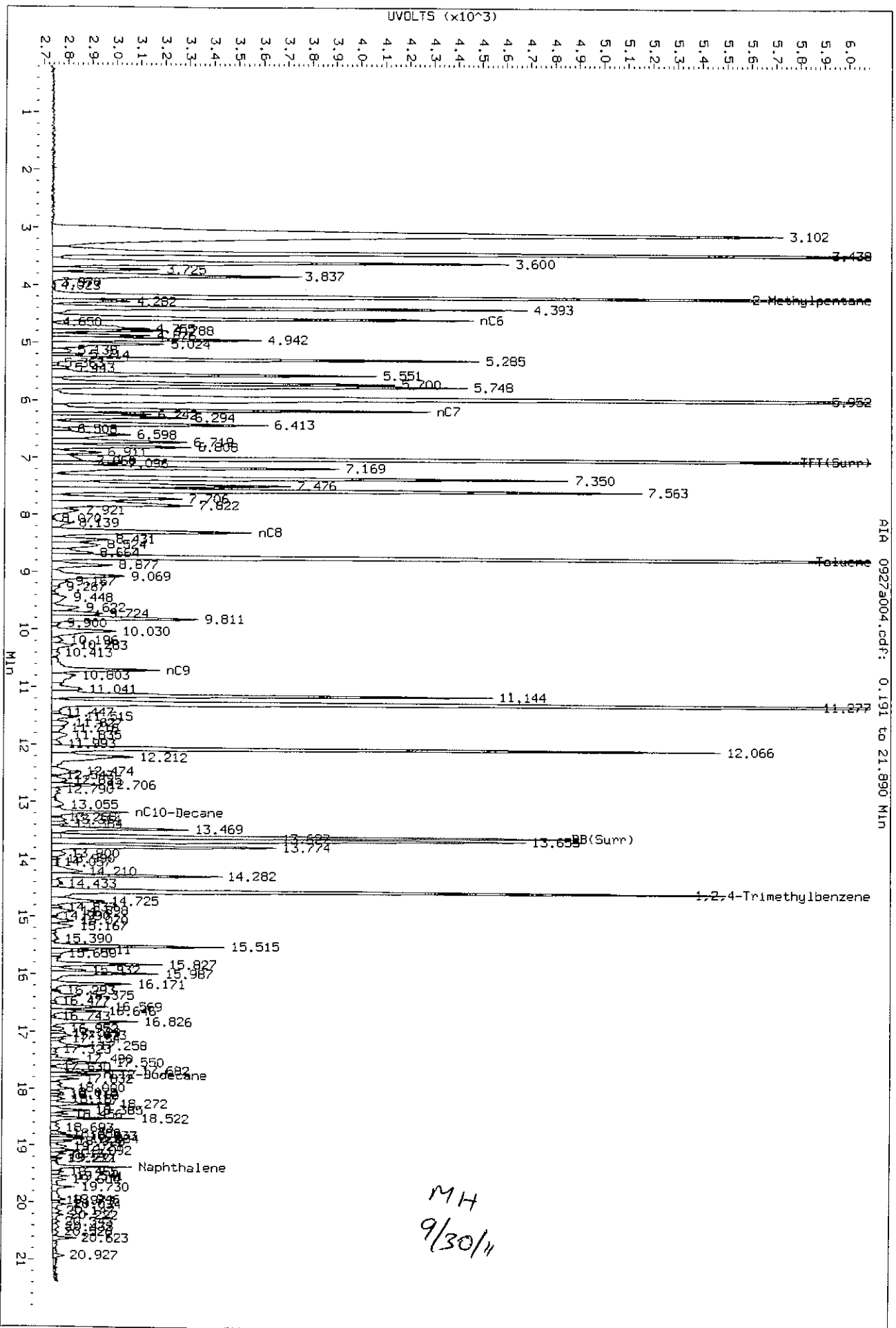
Instrument: pid2.i
Operator: HS
Column diameter: 0.18



/chem3/pid2.i/092711-2.b/0927a004.d/0927a004.cdf

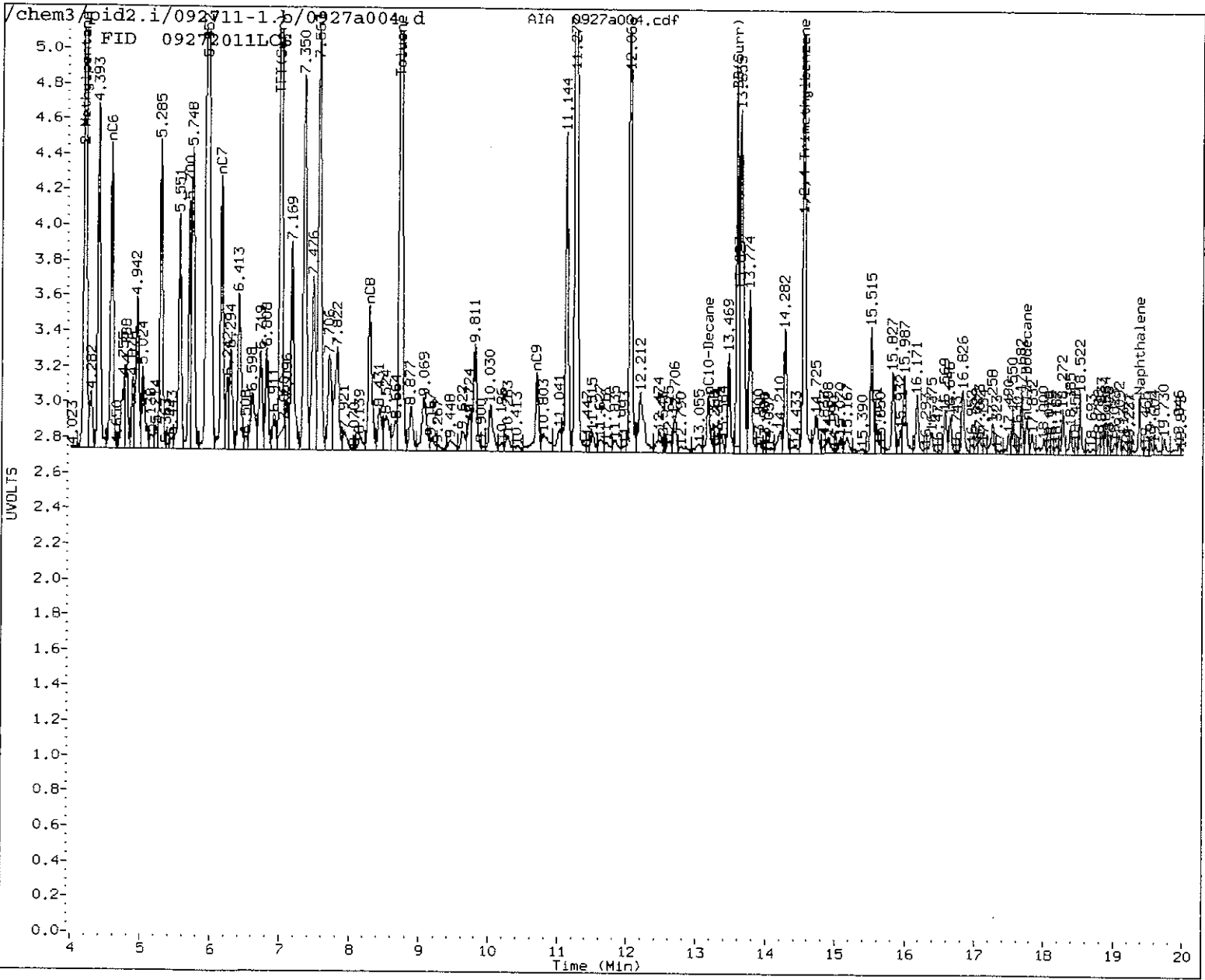
10 09 44

Data File: /chem3/pid2.1/092711-1.b/0927a004.d/0927a004.cdf
Injection Date: 27-SEP-2011 14:02
Instrument: pid2.1
Client Sample ID:



AIR 0927a004.cdf: 0.191 to 21.890 MIN

MH
9/30/11



MANUAL INTEGRATION

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: MH

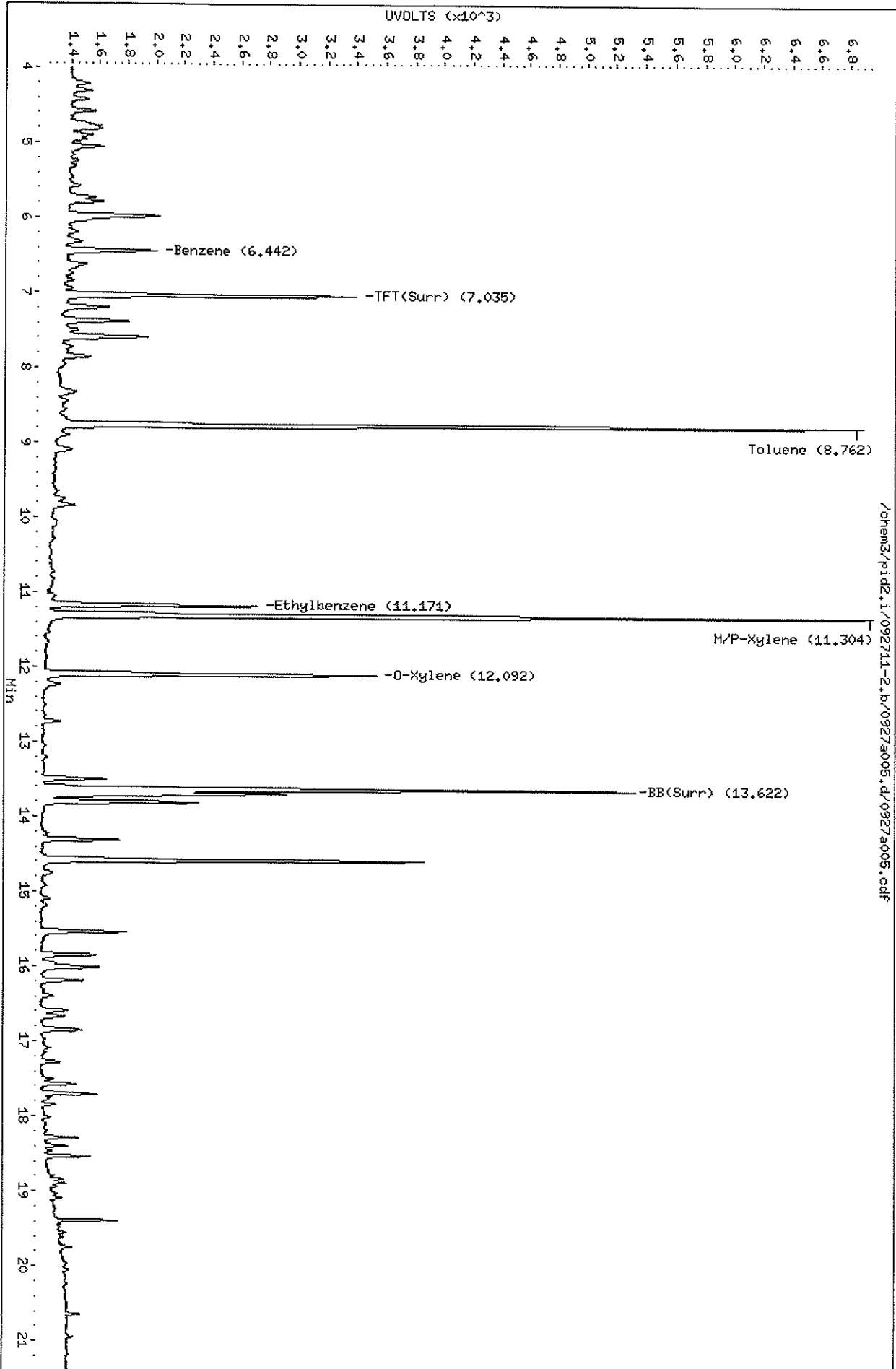
Date: 9/30/11

Data File: /chem3/pid2.i/092711-2.b/0927a005.d
Date: 27-SEP-2011 14:29
Client ID:
Sample Info: 09272011LCSD

Column phase: RTX 502-2 PID

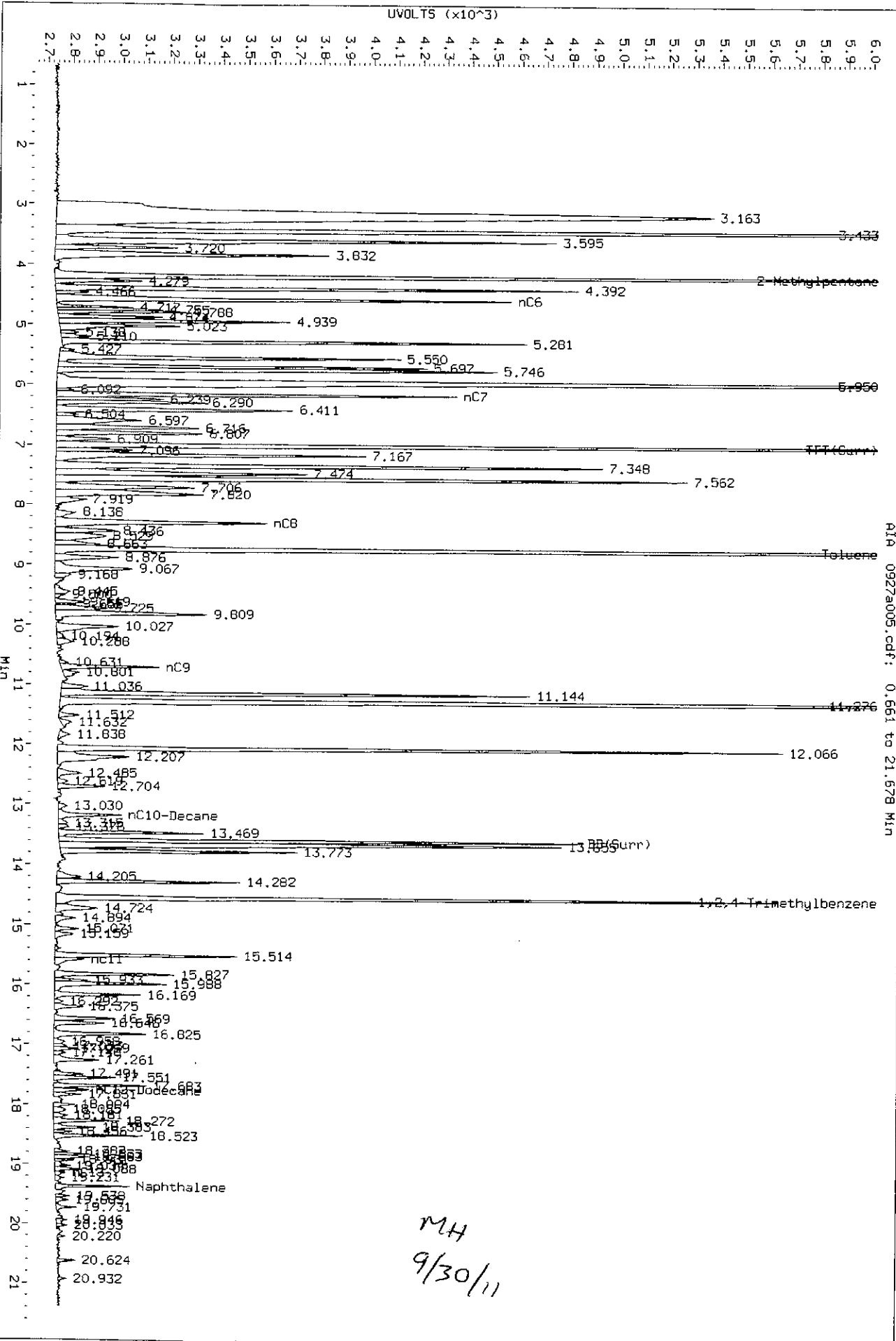
/chem3/pid2.i/092711-2.b/0927a005.d/0927a005.cdf

Instrument: pid2.i
Operator: HS
Column diameter: 0.18



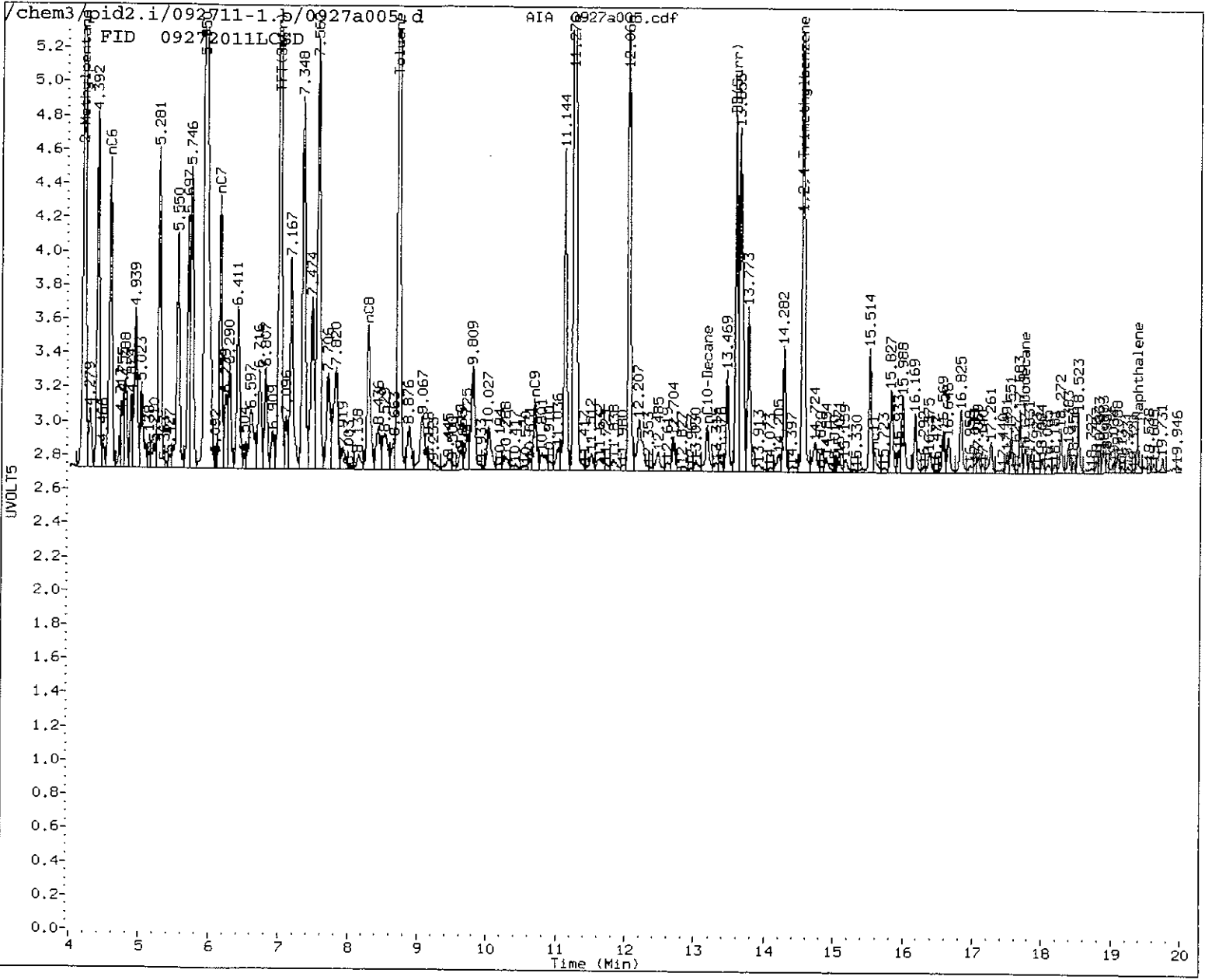
00100111

Data File: /chem3/pid2.1/092711-1.b/0927a005.d/0927a005.cdf
Injection Date: 27-Sep-2011 14:29
Instrument: pid2.1
Client Sample ID:



AIR 0927a005.cdf: 0.661 to 21.678 MIN

MH
9/30/11



MANUAL INTEGRATION

- Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: MH Date: 9/30/11

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: METHOD BLANK


Lab Sample ID: TM91MB

QC Report No: TM91-Kennedy Jenks Consultants

LIMS ID: 11-20415

Project: Ecology Cornet Bay

Matrix: Soil

Data Release Authorized: 

Date Sampled: NA

Reported: 09/27/11

Date Received: NA

Percent Total Solids: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	09/21/11	6010B	09/26/11	7440-38-2	Arsenic	5	5	U
3050B	09/21/11	6010B	09/26/11	7440-39-3	Barium	0.3	0.3	U
3050B	09/21/11	6010B	09/26/11	7440-43-9	Cadmium	0.2	0.2	U
3050B	09/21/11	6010B	09/26/11	7440-47-3	Chromium	0.5	0.5	U
3050B	09/21/11	6010B	09/26/11	7439-92-1	Lead	2	2	U
CLP	09/21/11	7471A	09/22/11	7439-97-6	Mercury	0.02	0.02	U
3050B	09/21/11	6010B	09/26/11	7782-49-2	Selenium	5	5	U
3050B	09/21/11	6010B	09/26/11	7440-22-4	Silver	0.3	0.3	U

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

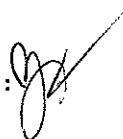
Page 1 of 1

Sample ID: KJ-MW6-14
SAMPLE

Lab Sample ID: TM91E

LIMS ID: 11-20415

Matrix: Soil

Data Release Authorized: 

Reported: 09/27/11

QC Report No: TM91-Kennedy Jenks Consultants
Project: Ecology Cornet Bay

Date Sampled: 09/15/11

Date Received: 09/19/11

Percent Total Solids: 82.7%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	09/21/11	6010B	09/26/11	7440-38-2	Arsenic	6	8	
3050B	09/21/11	6010B	09/26/11	7440-39-3	Barium	0.3	42.6	
3050B	09/21/11	6010B	09/26/11	7440-43-9	Cadmium	0.2	0.2	U
3050B	09/21/11	6010B	09/26/11	7440-47-3	Chromium	0.6	33.7	
3050B	09/21/11	6010B	09/26/11	7439-92-1	Lead	2	3	
CLP	09/21/11	7471A	09/22/11	7439-97-6	Mercury	0.02	0.02	U
3050B	09/21/11	6010B	09/26/11	7782-49-2	Selenium	6	6	U
3050B	09/21/11	6010B	09/26/11	7440-22-4	Silver	0.3	0.3	U

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1


Sample ID: KJ-B35-4

SAMPLE

Lab Sample ID: TM91H

LIMS ID: 11-20418

Matrix: Soil

Data Release Authorized: 

Reported: 09/27/11

QC Report No: TM91-Kennedy Jenks Consultants

Project: Ecology Cornet Bay

Date Sampled: 09/15/11

Date Received: 09/19/11

Percent Total Solids: 83.5%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	09/21/11	6010B	09/26/11	7440-38-2	Arsenic	6	11	
3050B	09/21/11	6010B	09/26/11	7440-39-3	Barium	0.3	62.5	
3050B	09/21/11	6010B	09/26/11	7440-43-9	Cadmium	0.2	0.2	U
3050B	09/21/11	6010B	09/26/11	7440-47-3	Chromium	0.6	47.4	
3050B	09/21/11	6010B	09/26/11	7439-92-1	Lead	2	5	
CLP	09/21/11	7471A	09/22/11	7439-97-6	Mercury	0.02	0.02	
3050B	09/21/11	6010B	09/26/11	7782-49-2	Selenium	6	6	U
3050B	09/21/11	6010B	09/26/11	7440-22-4	Silver	0.3	0.3	U

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS


Page 1 of 1

Sample ID: KJ-B38-7
SAMPLE

Lab Sample ID: TM91M

LIMS ID: 11-20423

Matrix: Soil

Data Release Authorized: 

Reported: 09/27/11

QC Report No: TM91-Kennedy Jenks Consultants
Project: Ecology Cornet Bay

Date Sampled: 09/16/11

Date Received: 09/19/11

Percent Total Solids: 78.1%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	09/21/11	6010B	09/26/11	7440-38-2	Arsenic	6	7	
3050B	09/21/11	6010B	09/26/11	7440-39-3	Barium	0.4	36.9	
3050B	09/21/11	6010B	09/26/11	7440-43-9	Cadmium	0.3	0.3	U
3050B	09/21/11	6010B	09/26/11	7440-47-3	Chromium	0.6	23.1	
3050B	09/21/11	6010B	09/26/11	7439-92-1	Lead	3	3	U
CLP	09/21/11	7471A	09/22/11	7439-97-6	Mercury	0.02	0.03	
3050B	09/21/11	6010B	09/26/11	7782-49-2	Selenium	6	6	U
3050B	09/21/11	6010B	09/26/11	7440-22-4	Silver	0.4	0.4	U

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS


Page 1 of 1

Sample ID: LAB CONTROL

Lab Sample ID: TM91LCS

LIMS ID: 11-20415

Matrix: Soil

Data Release Authorized: 

Reported: 09/27/11

QC Report No: TM91-Kennedy Jenks Consultants
Project: Ecology Cornet Bay

Date Sampled: NA

Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Arsenic	6010B	205	200	102%	
Barium	6010B	201	200	100%	
Cadmium	6010B	50.6	50.0	101%	
Chromium	6010B	50.8	50.0	102%	
Lead	6010B	202	200	101%	
Mercury	7471A	0.53	0.50	106%	
Selenium	6010B	204	200	102%	
Silver	6010B	52.0	50.0	104%	

Reported in mg/kg-dry

N-Control limit not met

NA-Not Applicable, Analyte Not Spiked

Control Limits: 80-120%

Soil Vapor Sample Results



Mobile
Geochemistry
Inc.

06 October 2011



Mr. Dean Malte
Kennedy/Jenks Consultants - Washington
32001 32nd Ave. South, Suite 100
Federal Way, WA 98001

H&P Project: KJ092011-12
Client Project: Ecology Cornet Bay

Dear Mr. Dean Malte:

Enclosed is the analytical report for the above referenced project. The data herein applies to samples as received by H&P Mobile Geochemistry, Inc. on 20-Sep-11 which were analyzed in accordance with the attached Chain of Custody record(s).

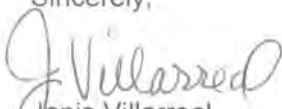
The results for all sample analyses and required QA/QC analyses are presented in the following sections and summarized in the documents:

- Sample Summary
- Case Narrative (if applicable)
- Sample Results
- Quality Control Summary
- Notes and Definitions / Appendix
- Chain of Custody

Unless otherwise noted, all analyses were performed and reviewed in compliance with our Quality Systems Manual and Standard Operating Procedures. This report shall not be reproduced, except in full, without the written approval of H&P Mobile Geochemistry, Inc.

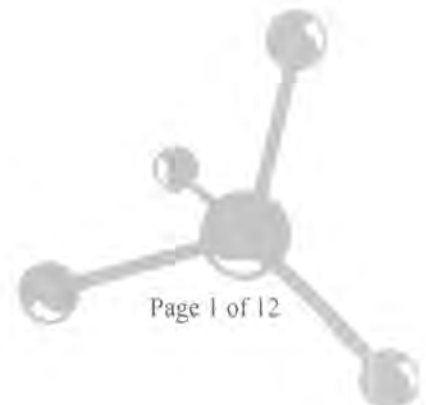
We at H&P Mobile Geochemistry, Inc. sincerely appreciate the opportunity to provide analytical services to you on this project. If you have any questions or concerns regarding this analytical report, please contact me at your convenience at 760-804-9678.

Sincerely,


Janis Villarreal
Laboratory Director

H&P Mobile Geochemistry, Inc. operates under CA Environmental Lab Accreditation Program Numbers 2579, 2740, 2741, 2742, 2743, 2745 and 2754. National Environmental Laboratory Accreditation Conference (NELAC) Standards Lab #11845

2470 Impala Drive, Carlsbad, California 92010 ☎ 760.804.9678 — Fax 760.804.9159
1855 Coronado Avenue, Signal Hill, California 90755
www.HandPmg.com ☎ 1-800-834-9888





2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

Kennedy/Jenks Consultants - Washington
32001 32nd Ave. South, Suite 100
Federal Way, WA 98001

Project: KJ092011-12
Project Number: Ecology Cornet Bay
Project Manager: Mr. Dean Malte

Reported:
06-Oct-11 12:19

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
VP-1 Cornet	E109098-01	Vapor	16-Sep-11	20-Sep-11
VP-2 Cornet	E109098-02	Vapor	16-Sep-11	20-Sep-11

Due to the presence of elevated analyte concentrations, the vapor samples were analyzed using EPA Method 8260B rather than EPA Method TO-15.



2470 Impala Drive
 Carlsbad, CA 92010
 760-804-9678 Phone
 760-804-9159 Fax

Kennedy/Jenks Consultants - Washington
 32001 32nd Ave. South, Suite 100
 Federal Way, WA 98001

Project: KJ092011-12
 Project Number: Ecology Cornet Bay
 Project Manager: Mr. Dean Malte

Reported:
 06-Oct-11 12:19

APH by EPA 8260

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
VP-1 Cornet (E109098-01) Vapor Sampled: 16-Sep-11 Received: 20-Sep-11									
TPHv (C5 - C8) aliphatic	3000000	200000	ug/m3	1	E112204	21-Sep-11	21-Sep-11	MA APHm	
TPHv (C9 - C12) aliphatic	690000	200000	"	"	"	"	"	"	
TPHv (C9 - C10) aromatic	ND	200000	"	"	"	"	"	"	
VP-2 Cornet (E109098-02) Vapor Sampled: 16-Sep-11 Received: 20-Sep-11									
TPHv (C5 - C8) aliphatic	1900000	200000	ug/m3	1	E112204	21-Sep-11	21-Sep-11	MA APHm	
TPHv (C9 - C12) aliphatic	680000	200000	"	"	"	"	"	"	
TPHv (C9 - C10) aromatic	ND	200000	"	"	"	"	"	"	



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Project: KJ092011-12
 Project Number: Ecology Cornet Bay
 Project Manager: Mr. Dean Malte

Reported:
 06-Oct-11 12:19

Volatile Organic Compounds by EPA Method 8260B Modified

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
VP-1 Cornet (E109098-01) Vapor Sampled: 16-Sep-11 Received: 20-Sep-11									
Dichlorodifluoromethane (F12)	ND	10000	ug/m3	1	E112204	21-Sep-11	21-Sep-11	EPA 8260B	
Chloromethane	ND	10000	"	"	"	"	"	"	
Vinyl chloride	ND	1000	"	"	"	"	"	"	
Bromomethane	ND	10000	"	"	"	"	"	"	
Chloroethane	ND	10000	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	10000	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	10000	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	10000	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	10000	"	"	"	"	"	"	
1,1-Dichloroethane	ND	10000	"	"	"	"	"	"	
1,1-Dichloroethene	ND	10000	"	"	"	"	"	"	
2,2-Dichloropropane	ND	10000	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	10000	"	"	"	"	"	"	
Chloroform	ND	2000	"	"	"	"	"	"	
Bromochloromethane	ND	10000	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	10000	"	"	"	"	"	"	
1,1-Dichloropropene	ND	10000	"	"	"	"	"	"	
Carbon tetrachloride	ND	2000	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	2000	"	"	"	"	"	"	
Benzene	1400000	2000	"	"	"	"	"	"	
Trichloroethene	ND	2000	"	"	"	"	"	"	
1,2-Dichloropropane	ND	10000	"	"	"	"	"	"	
Bromodichloromethane	ND	10000	"	"	"	"	"	"	
Dibromomethane	ND	10000	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	10000	"	"	"	"	"	"	
Toluene	ND	20000	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	10000	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	10000	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	10000	"	"	"	"	"	"	
1,3-Dichloropropane	ND	10000	"	"	"	"	"	"	
Tetrachloroethene	ND	2000	"	"	"	"	"	"	
Dibromochloromethane	ND	10000	"	"	"	"	"	"	
Chlorobenzene	ND	2000	"	"	"	"	"	"	
Ethylbenzene	120000	10000	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	10000	"	"	"	"	"	"	
m,p-Xylene	14000	10000	"	"	"	"	"	"	
o-Xylene	ND	10000	"	"	"	"	"	"	
Styrene	ND	10000	"	"	"	"	"	"	



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Volatile Organic Compounds by EPA Method 8260B Modified

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
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VP-1 Cornet (E109098-01) Vapor Sampled: 16-Sep-11 Received: 20-Sep-11

Bromoform	ND	10000	ug/m3	1	E112204	21-Sep-11	21-Sep-11	EPA 8260B	
Isopropylbenzene (Cumene)	ND	10000	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	10000	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	10000	"	"	"	"	"	"	
n-Propylbenzene	ND	10000	"	"	"	"	"	"	
Bromobenzene	ND	10000	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	10000	"	"	"	"	"	"	
2-Chlorotoluene	ND	10000	"	"	"	"	"	"	
4-Chlorotoluene	ND	10000	"	"	"	"	"	"	
tert-Butylbenzene	ND	10000	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	10000	"	"	"	"	"	"	
sec-Butylbenzene	ND	10000	"	"	"	"	"	"	
p-Isopropyltoluene	ND	10000	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	10000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	10000	"	"	"	"	"	"	
n-Butylbenzene	ND	10000	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	10000	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	100000	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	10000	"	"	"	"	"	"	
Hexachlorobutadiene	ND	10000	"	"	"	"	"	"	
Naphthalene	ND	2000	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	10000	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	10000	"	"	"	"	"	"	

Surrogate: Dibromofluoromethane	99.8 %	75-125	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	112 %	75-125	"	"	"	"	"	"	
Surrogate: Toluene-d8	117 %	75-125	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.9 %	75-125	"	"	"	"	"	"	



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Project: KJ092011-12
 Project Number: Ecology Cornet Bay
 Project Manager: Mr. Dean Malte

Reported:
 06-Oct-11 12:19

Volatile Organic Compounds by EPA Method 8260B Modified

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
VP-2 Cornet (E109098-02) Vapor Sampled: 16-Sep-11 Received: 20-Sep-11									
Dichlorodifluoromethane (F12)	ND	10000	ug/m3	1	E112204	21-Sep-11	21-Sep-11	EPA 8260B	
Chloromethane	ND	10000	"	"	"	"	"	"	
Vinyl chloride	ND	1000	"	"	"	"	"	"	
Bromomethane	ND	10000	"	"	"	"	"	"	
Chloroethane	ND	10000	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	10000	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	10000	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	10000	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	10000	"	"	"	"	"	"	
1,1-Dichloroethane	ND	10000	"	"	"	"	"	"	
1,1-Dichloroethene	ND	10000	"	"	"	"	"	"	
2,2-Dichloropropane	ND	10000	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	10000	"	"	"	"	"	"	
Chloroform	ND	2000	"	"	"	"	"	"	
Bromochloromethane	ND	10000	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	10000	"	"	"	"	"	"	
1,1-Dichloropropene	ND	10000	"	"	"	"	"	"	
Carbon tetrachloride	ND	2000	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	2000	"	"	"	"	"	"	
Benzene	780000	2000	"	"	"	"	"	"	
Trichloroethene	ND	2000	"	"	"	"	"	"	
1,2-Dichloropropane	ND	10000	"	"	"	"	"	"	
Bromodichloromethane	ND	10000	"	"	"	"	"	"	
Dibromomethane	ND	10000	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	10000	"	"	"	"	"	"	
Toluene	ND	20000	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	10000	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	10000	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	10000	"	"	"	"	"	"	
1,3-Dichloropropane	ND	10000	"	"	"	"	"	"	
Tetrachloroethene	ND	2000	"	"	"	"	"	"	
Dibromochloromethane	ND	10000	"	"	"	"	"	"	
Chlorobenzene	ND	2000	"	"	"	"	"	"	
Ethylbenzene	130000	10000	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	10000	"	"	"	"	"	"	
m,p-Xylene	16000	10000	"	"	"	"	"	"	
o-Xylene	ND	10000	"	"	"	"	"	"	
Styrene	ND	10000	"	"	"	"	"	"	



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Volatile Organic Compounds by EPA Method 8260B Modified

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
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VP-2 Cornet (E109098-02) Vapor Sampled: 16-Sep-11 Received: 20-Sep-11

Bromoform	ND	10000	ug/m3	1	E112204	21-Sep-11	21-Sep-11	EPA 8260B	
Isopropylbenzene (Cumene)	ND	10000	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	10000	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	10000	"	"	"	"	"	"	
n-Propylbenzene	ND	10000	"	"	"	"	"	"	
Bromobenzene	ND	10000	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	10000	"	"	"	"	"	"	
2-Chlorotoluene	ND	10000	"	"	"	"	"	"	
4-Chlorotoluene	ND	10000	"	"	"	"	"	"	
tert-Butylbenzene	ND	10000	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	10000	"	"	"	"	"	"	
sec-Butylbenzene	ND	10000	"	"	"	"	"	"	
p-Isopropyltoluene	ND	10000	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	10000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	10000	"	"	"	"	"	"	
n-Butylbenzene	ND	10000	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	10000	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	100000	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	10000	"	"	"	"	"	"	
Hexachlorobutadiene	ND	10000	"	"	"	"	"	"	
Naphthalene	ND	2000	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	10000	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	10000	"	"	"	"	"	"	

Surrogate: Dibromofluoromethane	97.5 %	75-125	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	118 %	75-125	"	"	"	"	"	"	
Surrogate: Toluene-d8	117 %	75-125	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	93.5 %	75-125	"	"	"	"	"	"	



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 06-Oct-11 12:19

APH by EPA 8260 - Quality Control
H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EI12204 - EPA 5030

Blank (EI12204-BLK2)

Prepared & Analyzed: 21-Sep-11

TPHv (C5 - C8) aliphatic	ND	200000	ug/m3							
TPHv (C9 - C12) aliphatic	ND	200000	"							
TPHv (C9 - C10) aromatic	ND	200000	"							



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Volatile Organic Compounds by EPA Method 8260B Modified - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EI12204 - EPA 5030

Prepared & Analyzed: 21-Sep-11

Blank (EI12204-BLK2)

Dichlorodifluoromethane (F12)	ND	500	ug/m3							
Chloromethane	ND	500	"							
Vinyl chloride	ND	50	"							
Bromomethane	ND	500	"							
Chloroethane	ND	500	"							
Trichlorofluoromethane (F11)	ND	500	"							
Methylene chloride (Dichloromethane)	ND	500	"							
Methyl tertiary-butyl ether (MTBE)	ND	500	"							
trans-1,2-Dichloroethene	ND	500	"							
1,1-Dichloroethane	ND	500	"							
1,1-Dichloroethene	ND	500	"							
2,2-Dichloropropane	ND	500	"							
cis-1,2-Dichloroethene	ND	500	"							
Chloroform	ND	100	"							
Bromochloromethane	ND	500	"							
1,1,1-Trichloroethane	ND	500	"							
1,1-Dichloropropene	ND	500	"							
Carbon tetrachloride	ND	100	"							
1,2-Dichloroethane (EDC)	ND	100	"							
Benzene	ND	100	"							
Trichloroethene	ND	100	"							
1,2-Dichloropropane	ND	500	"							
Bromodichloromethane	ND	500	"							
Dibromomethane	ND	500	"							
cis-1,3-Dichloropropene	ND	500	"							
Toluene	ND	1000	"							
trans-1,3-Dichloropropene	ND	500	"							
1,1,2-Trichloroethane	ND	500	"							
1,2-Dibromoethane (EDB)	ND	500	"							
1,3-Dichloropropane	ND	500	"							
Tetrachloroethene	ND	100	"							
Dibromochloromethane	ND	500	"							
Chlorobenzene	ND	100	"							
Ethylbenzene	ND	500	"							



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Volatile Organic Compounds by EPA Method 8260B Modified - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EI12204 - EPA 5030

Blank (EI12204-BLK2)

Prepared & Analyzed: 21-Sep-11

1,1,1,2-Tetrachloroethane	ND	500	ug/m3							
m,p-Xylene	ND	500	"							
o-Xylene	ND	500	"							
Styrene	ND	500	"							
Bromoform	ND	500	"							
Isopropylbenzene (Cumene)	ND	500	"							
1,1,2,2-Tetrachloroethane	ND	500	"							
1,2,3-Trichloropropane	ND	500	"							
n-Propylbenzene	ND	500	"							
Bromobenzene	ND	500	"							
1,3,5-Trimethylbenzene	ND	500	"							
2-Chlorotoluene	ND	500	"							
4-Chlorotoluene	ND	500	"							
tert-Butylbenzene	ND	500	"							
1,2,4-Trimethylbenzene	ND	500	"							
sec-Butylbenzene	ND	500	"							
p-Isopropyltoluene	ND	500	"							
1,3-Dichlorobenzene	ND	500	"							
1,4-Dichlorobenzene	ND	500	"							
n-Butylbenzene	ND	500	"							
1,2-Dichlorobenzene	ND	500	"							
1,2-Dibromo-3-chloropropane	ND	5000	"							
1,2,4-Trichlorobenzene	ND	500	"							
Hexachlorobutadiene	ND	500	"							
Naphthalene	ND	100	"							
1,2,3-Trichlorobenzene	ND	500	"							
1,1,2 Trichlorotrifluoroethane (F113)	ND	500	"							

Surrogate: Dibromofluoromethane	2530		"	2500		101	75-125			
Surrogate: 1,2-Dichloroethane-d4	2680		"	2500		107	75-125			
Surrogate: Toluene-d8	2520		"	2500		101	75-125			
Surrogate: 4-Bromofluorobenzene	2320		"	2500		93.0	75-125			



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Volatile Organic Compounds by EPA Method 8260B Modified - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EI12204 - EPA 5030

LCS (EI12204-BS1)

Prepared & Analyzed: 21-Sep-11

Dichlorodifluoromethane (F12)	2360	500	ug/m3	2500		94.3	70-130			
Vinyl chloride	2820	50	"	2500		113	70-130			
Chloroethane	2840	500	"	2500		113	70-130			
Trichlorofluoromethane (F11)	2770	500	"	2500		111	70-130			
Methylene chloride (Dichloromethane)	2350	500	"	2500		94.2	70-130			
trans-1,2-Dichloroethene	2590	500	"	2500		104	70-130			
1,1-Dichloroethane	2470	500	"	2500		98.9	70-130			
1,1-Dichloroethene	2950	500	"	2500		118	70-130			
cis-1,2-Dichloroethene	2420	500	"	2500		96.7	70-130			
Chloroform	2620	100	"	2500		105	70-130			
1,1,1-Trichloroethane	2580	500	"	2500		103	70-130			
Carbon tetrachloride	2690	100	"	2500		107	70-130			
1,2-Dichloroethane (EDC)	2750	100	"	2500		110	70-130			
Benzene	2420	100	"	2500		96.8	70-130			
Trichloroethene	2480	100	"	2500		99.3	70-130			
Toluene	2470	1000	"	2500		98.6	70-130			
1,1,2-Trichloroethane	2260	500	"	2500		90.4	70-130			
Tetrachloroethene	2700	100	"	2500		108	70-130			
Ethylbenzene	2750	500	"	2500		110	70-130			
1,1,1,2-Tetrachloroethane	2850	500	"	2500		114	70-130			
m,p-Xylene	5330	500	"	5000		107	70-130			
o-Xylene	2590	500	"	2500		104	70-130			
1,1,2,2-Tetrachloroethane	2400	500	"	2500		95.9	70-130			
1,1,2 Trichlorotrifluoroethane (F113)	1940	500	"	2500		77.4	70-130			
<i>Surrogate: Dibromofluoromethane</i>	2560		"	2500		102	75-125			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2610		"	2500		104	75-125			
<i>Surrogate: Toluene-d8</i>	2540		"	2500		101	75-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	2570		"	2500		103	75-125			



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06-Oct-11 12:19

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

Appendix

H&P Mobile Geochemistry, Inc. is approved as an Environmental Laboratory in conformance with the Environmental Laboratory Accreditation Program (CA) for the category of Volatile and Semi-Volatile Organic Chemistry of Hazardous Waste for the following methods:

Certificate# 2741, 2743, 2579, 2754 & 2740 approved for EPA 8260 and LUFT GC/MS
Certificate# 2742, 2745, & 2741 approved for LUFT
Certificate# 2745 & 2742 approved for EPA 418.1

H&P Mobile Geochemistry, Inc. is approved as an Environmental Laboratory in conformance with the National Environmental Accreditation Conference Standards for the category Environmental Analysis Air and Emissions for the following analytes and methods:

1,2,4-Trichlorobenzene by EPA TO-15 & TO-14A
Hexachlorobutadiene by EPA TO-15 & TO-14A
1,2,4-Trimethylbenzene by EPA TO-14A
1,2-Dichlorobenzene by EPA TO-15 & TO-14A
1,3,5-Trimethylbenzene by EPA TO-14A
1,4-Dichlorobenzene by EPA TO-15 & TO-14A
Benzene by EPA TO-15 & TO-14A
Chlorobenzene by EPA TO-15 & TO-14A
Ethyl benzene by EPA TO-15 & TO-14A
Styrene by EPA TO-15 & TO-14A
Toluene by EPA TO-15 & TO-14A
Total Xylenes by EPA TO-15 & TO-14A
1,1,1-Trichloroethane by EPA TO-15 & TO-14A
1,1,2,2-Tetrachloroethane by EPA TO-15 & TO-14A
1,1,2-Trichloroethane by EPA TO-15 & TO-14A
1,1-Dichloroethane by EPA TO-15 & TO-14A
1,1-Dichloroethene by EPA TO-15 & TO-14A
1,2-Dichloroethane by EPA TO-15 & TO-14A
1,2-Dichloropropane by EPA TO-15 & TO-14A
Bromoform by EPA TO-15
Bromomethane by EPA TO-15 & TO-14A
Carbon tetrachloride by EPA TO-15 & TO-14A
Chloroethane by EPA TO-15
Chloroform by EPA TO-15 & TO-14A
Chloromethane by EPA TO-15 & TO-14A
cis-1,2-Dichloroethene by EPA TO-15
cis-1,2-Dichloropropene by EPA TO-15 & TO-14A
Methylene chloride by EPA TO-15 & TO-14A
Tetrachloroethane by EPA TO-15 & TO-14A
trans-1,2-Dichloroethene by EPA TO-15
trans-1,2-Dichloropropene by EPA TO-15 & TO-14A
Trichloroethene by EPA TO-15 & TO-14A
Vinyl chloride by EPA TO-15 & TO-14A
2-Butanone by EPA TO-15
4-Methyl-2-Pentanone by EPA TO-15
Hexane by EPA TO-15
Methyl tert-butyl ether by EPA TO-15
Vinyl acetate by EPA TO-15

This certification applies to samples analyzed in summa canisters.

Chain of Custody Record

2470 Impala Dr., Carlsbad, CA 92010 • ph 760.804.9678 • fax 760.804.9159
 1855 Coronado Ave., Signal Hill, CA 90755 • ph 800.834.9888

Date: 9/19/11
H&P Project # KJ092011-12
Outside Lab: _____

Client: Kennedy/Jenks (Dean Malte) Collector: Kennedy/Jenks Page: 1 of 1
Address: 35001 32nd Ave S, Ste 100 Client Project # _____ Project Contact: Dean Malte
Federal Way WA, 98001 Location: Ecology Comet Bay
Email: deanmalte@kennedyjenks.com Phone: 253 835 4400 Fax: 253 952 3435 Turn around time: std.

Geotracker EDF: Yes No
Global ID: _____
Excel EDD: Yes No

Sample Receipt
Intact: Yes No
Seal Intact: Yes No N/A
Cold: Yes No N/A
Temperature: RT

Special Instructions:
*Note: 6L Samms not used. (X) Samples analyzed by EPA Method 8260 B
YSE

UPS TRACK# 1Z 93T T61 84 4098 7468

Lab Work Order # E109098

Sample Name	CAN# Field Point Name	Purge Vol	Time	Date	Sample Type	Container Type	Total # of containers	8260B Full List	8260B	8015M TPH	418,1 TRPH	VOC's: Full List	VOC's: Short List/DISC	VOC's: SAM, 8260B	Naphthalene	Oxygenates	TPHV gas	Ketones	Other	Leak Check Compound	Methane	Fixed Gases	TPH Fractions - MA APH	VACA													
								SOIL/GW															SOIL VAPOR/AIR ANALYSIS														
VP-1 Comet	172	1L	925	9/16/11	Grab	1L Summa	1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	X	.3												
VP-2 Comet	381	1L	935	9/16/11	Grab	1L Summa	1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	X	.1												

Relinquished by: (Signature) [Signature] (company) Kennedy/Jenks Received by: (Signature) [Signature] (company) H&P Date: 9/20/11 Time: 1000
shipped UPS 9/19/11
Relinquished by: (Signature) _____ (company) _____ Received by: (Signature) _____ (company) _____ Date: _____ Time: _____
Relinquished by: (Signature) _____ (company) _____ Received by: (Signature) _____ (company) _____ Date: _____ Time: _____

*Signature constitutes authorization to proceed with analysis and acceptance of condition on back. Sample disposal instruction: Disposal Return to client Pickup