North Creek Analytical, Inc.
Environmental Laboratory Network
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C.O.C. #180

CHAIN OF CUSTODY REPORT

Work Order #: M107038

CLIENT: Bristol

REPORT TO: Anne Kranatwether

ADDRESS: Amchitka Island, Ak

PHONE: 907 770-0974 FAX: 770-0975

INVOICE TO: Bristol

P.O. NUMBER: 21090

PROJECT NAME: Amchitka

PROJECT NUMBER: 21090

SAMPLED BY: CWM / KLP

TURNAROUND REQUEST in Business Days*

Organic & Inorganic Analyses: 10 | 7 | 5 | 4 | 3 | 2 | 1 | <1 (STD.)

Petroleum Hydrocarbon Analyses: 5 | 4 | 3 | 2 | 1 | <1 (STD.)

OTHER — Please Specify

*Turnaround Requests less than standard may incur Rush Charges.

REQUESTED ANALYSES

CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	DRO & RRO	GRO/BTEX	MATRIX (W, S, O)	# OF CONT.	COMMENTS	NCA WO ID
1. 01AmHV28SL	7/18/01 0840	X	X	S	2	01AmHV212SL	
2. 01AmHV29SL	7/18/01 0845	X	X	S	2	01AmHV213SL	
3. 01AmHV30SL	7/18/01 0850	X	X	S	2	01AmHV214SL	
4. 01AmHV31SL	7/18/01 0855	X	X	S	2	01AmHV215SL	
5. 01AmHV32SL	7/18/01 0900	X	X	S	2	01AmHV216SL	
6. 01AmHV33SL	7/18/01 0905	X	X	S	2	01AmHV217SL	
7. 01AmHV34SL	7/18/01 0910		X	S	1	01AmHV218SL	
8. IDs changed to							
9. 01Am HV212-1852 AC 10/31/01							
10.							
11.							
12.							
13.							
14.							
15.							

RELINQUISHED BY:	DATE: 7/18/01	RECEIVED BY:	DATE: 7/18/01
PRINT NAME: Charlie Marshall	FIRM: Bristol / TIME: 0930	PRINT NAME: Stephen Hale	FIRM: NCA / TIME: 0930
RELINQUISHED BY:	DATE:	RECEIVED BY:	DATE:
PRINT NAME:	FIRM: / TIME:	PRINT NAME:	FIRM: / TIME:

ADDITIONAL REMARKS: Post Treatment Confirmation for HAVE Batch #2

TEMP:

COC REV 3/99

PAGE OF

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7 December, 2001

Anne Kranawetter
Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

RE: Amchitka

Enclosed are the results of analyses for samples received by the laboratory on 07/18/01 09:30. If you have any questions concerning this report, please feel free to contact me.

This report was recreated from a previously issued final report in order to provide an electronic copy. The final report used for these electronic copies may have been previously issued as an amended report due to client requested changes to sample names, etc. No data has changed since submission of the previously issued final, or amended, report.

Sincerely,

Stephen Wilson
Environmental Group Leader

Work Orders included in this report:

M107038

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Bristol Environmental & Engineering	Project:	Amchitka	
2000 W International Airport C#1	Project Number:	21090	**Reported:**
Anchorage, AK 99502-1116	Project Manager:	Anne Kranawetter	10/25/01 01:39

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
01AMHV212SL	M107038-01	Soil	07/18/01 08:40	07/18/01 09:30
01AMHV213SL	M107038-02	Soil	07/18/01 08:45	07/18/01 09:30
01AMHV214SL	M107038-03	Soil	07/18/01 08:50	07/18/01 09:30
01AMHV215SL	M107038-04	Soil	07/18/01 08:55	07/18/01 09:30
01AMHV216SL	M107038-05	Soil	07/18/01 09:00	07/18/01 09:30
01AMHV217SL	M107038-06	Soil	07/18/01 09:05	07/18/01 09:30
01AMHV218SL	M107038-07	Soil	07/18/01 09:10	07/18/01 09:30

C.O.C # 180

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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Bristol Environmental & Engineering	Project:	Amchitka	
2000 W International Airport C#1	Project Number:	21090	**Reported:**
Anchorage, AK 99502-1116	Project Manager:	Anne Kranawetter	10/25/01 01:39

Diesel Hydrocarbons (C10-C25) per AK102

North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMHV212SL (M107038-01) Soil					Sampled: 07/18/01	Received: 07/18/01			
Diesel Range Organics	ND	150	mg/kg dry	1	AK 102	07/18/01	07/18/01	0107067	
Surr: 1-Chlorooctadecane	*94.0 %*	*50-150*							
Surr: Triacontane	*56.5 %*	*50-150*							
01AMHV213SL (M107038-02) Soil					Sampled: 07/18/01	Received: 07/18/01			
Diesel Range Organics	ND	150	mg/kg dry	1	AK 102	07/18/01	07/18/01	0107067	
Surr: 1-Chlorooctadecane	*86.1 %*	*50-150*							
Surr: Triacontane	*71.5 %*	*50-150*							
01AMHV214SL (M107038-03) Soil					Sampled: 07/18/01	Received: 07/18/01			
Diesel Range Organics	ND	150	mg/kg dry	1	AK 102	07/18/01	07/18/01	0107067	
Surr: 1-Chlorooctadecane	*99.1 %*	*50-150*							
Surr: Triacontane	*60.1 %*	*50-150*							
01AMHV215SL (M107038-04) Soil					Sampled: 07/18/01	Received: 07/18/01			
Diesel Range Organics	ND	150	mg/kg dry	1	AK 102	07/18/01	07/18/01	0107067	
Surr: 1-Chlorooctadecane	*89.2 %*	*50-150*							
Surr: Triacontane	*77.8 %*	*50-150*							
01AMHV216SL (M107038-05) Soil					Sampled: 07/18/01	Received: 07/18/01			
Diesel Range Organics	ND	150	mg/kg dry	1	AK 102	07/18/01	07/18/01	0107067	
Surr: 1-Chlorooctadecane	*95.7 %*	*50-150*							
Surr: Triacontane	*55.9 %*	*50-150*							
01AMHV217SL (M107038-06) Soil					Sampled: 07/18/01	Received: 07/18/01			
Diesel Range Organics	**241**	150	mg/kg dry	1	AK 102	07/18/01	07/18/01	0107067	D-16
Surr: 1-Chlorooctadecane	*93.3 %*	*50-150*							
Surr: Triacontane	*97.5 %*	*50-150*							

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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Bristol Environmental & Engineering	Project:	Amchitka	
2000 W International Airport C#1	Project Number:	21090	**Reported:**
Anchorage, AK 99502-1116	Project Manager:	Anne Kranawetter	10/25/01 01:39

BTEX,MTBE and Naphthalene per EPA Method 8021B

North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMHV212SL (M107038-01) Soil					Sampled: 07/18/01	Received: 07/18/01			
Benzene	ND	0.0592	mg/kg dry	50	21B BTEX/MTI	07/18/01	07/18/01	0107066	
Toluene	ND	0.237	"	"	"	"	"	"	
Ethylbenzene	ND	0.237	"	"	"	"	"	"	
Xylenes (total)	ND	0.474	"	"	"	"	"	"	
Naphthalene	ND	2.37	"	"	"	"	"	"	
Surr: 4-BFB	*96.5 %*	*50-150*							
01AMHV213SL (M107038-02) Soil					Sampled: 07/18/01	Received: 07/18/01			
Benzene	ND	0.0597	mg/kg dry	50	21B BTEX/MTI	07/18/01	07/18/01	0107066	
Toluene	ND	0.239	"	"	"	"	"	"	
Ethylbenzene	ND	0.239	"	"	"	"	"	"	
Xylenes (total)	ND	0.478	"	"	"	"	"	"	
Naphthalene	ND	2.39	"	"	"	"	"	"	
Surr: 4-BFB	*94.2 %*	*50-150*							
01AMHV214SL (M107038-03) Soil					Sampled: 07/18/01	Received: 07/18/01			
Benzene	ND	0.0464	mg/kg dry	50	21B BTEX/MTI	07/18/01	07/18/01	0107066	
Toluene	ND	0.186	"	"	"	"	"	"	
Ethylbenzene	ND	0.186	"	"	"	"	"	"	
Xylenes (total)	ND	0.371	"	"	"	"	"	"	
Naphthalene	ND	1.86	"	"	"	"	"	"	
Surr: 4-BFB	*98.7 %*	*50-150*							
01AMHV215SL (M107038-04) Soil					Sampled: 07/18/01	Received: 07/18/01			
Benzene	ND	0.0389	mg/kg dry	50	21B BTEX/MTI	07/18/01	07/18/01	0107066	
Toluene	ND	0.156	"	"	"	"	"	"	
Ethylbenzene	ND	0.156	"	"	"	"	"	"	
Xylenes (total)	ND	0.311	"	"	"	"	"	"	
Naphthalene	ND	1.56	"	"	"	"	"	"	
Surr: 4-BFB	*97.2 %*	*50-150*							

North Creek Analytical - Mobile Lab

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Stephen Wilson, Environmental Group Leader

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Bristol Environmental & Engineering	Project:	Amchitka	
2000 W International Airport C#1	Project Number:	21090	**Reported:**
Anchorage, AK 99502-1116	Project Manager:	Anne Kranawetter	10/25/01 01:39

BTEX,MTBE and Naphthalene per EPA Method 8021B

North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMHV216SL (M107038-05) Soil					Sampled: 07/18/01	Received: 07/18/01			
Benzene	ND	0.0466	mg/kg dry	50	21B BTEX/MTI	07/18/01	07/18/01	0107066	
Toluene	ND	0.186	"	"	"	"	"	"	
Ethylbenzene	ND	0.186	"	"	"	"	"	"	
Xylenes (total)	ND	0.373	"	"	"	"	"	"	
Naphthalene	ND	1.86	"	"	"	"	"	"	
Surr: 4-BFB	*102 %*	*50-150*							
01AMHV217SL (M107038-06) Soil					Sampled: 07/18/01	Received: 07/18/01			
Benzene	ND	0.0502	mg/kg dry	50	21B BTEX/MTI	07/18/01	07/18/01	0107066	
Toluene	ND	0.201	"	"	"	"	"	"	
Ethylbenzene	ND	0.201	"	"	"	"	"	"	
Xylenes (total)	ND	0.402	"	"	"	"	"	"	
Naphthalene	ND	2.01	"	"	"	"	"	"	
Surr: 4-BFB	*99.0 %*	*50-150*							
01AMHV218SL (M107038-07) Soil					Sampled: 07/18/01	Received: 07/18/01			
Benzene	ND	0.114	mg/kg dry	50	21B BTEX/MTI	07/18/01	07/18/01	0107066	
Toluene	ND	0.456	"	"	"	"	"	"	
Ethylbenzene	ND	0.456	"	"	"	"	"	"	
Xylenes (total)	ND	0.911	"	"	"	"	"	"	
Naphthalene	ND	4.56	"	"	"	"	"	"	
Surr: 4-BFB	*100 %*	*50-150*							

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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Bristol Environmental & Engineering	Project:	Amchitka	
2000 W International Airport C#1	Project Number:	21090	**Reported:**
Anchorage, AK 99502-1116	Project Manager:	Anne Kranawetter	10/25/01 01:39

Physical Parameters per APHA/ASTM/EPA Methods

North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMHV212SL (M107038-01) Soil					Sampled: 07/18/01	Received: 07/18/01			
% Solids	**98.6**	0.0100	% by Weight	1	Gravimetric	07/18/01	07/19/01	0107069	
01AMHV213SL (M107038-02) Soil					Sampled: 07/18/01	Received: 07/18/01			
% Solids	**99.1**	0.0100	% by Weight	1	Gravimetric	07/18/01	07/19/01	0107069	
01AMHV214SL (M107038-03) Soil					Sampled: 07/18/01	Received: 07/18/01			
% Solids	**99.2**	0.0100	% by Weight	1	Gravimetric	07/18/01	07/19/01	0107069	
01AMHV215SL (M107038-04) Soil					Sampled: 07/18/01	Received: 07/18/01			
% Solids	**98.1**	0.0100	% by Weight	1	Gravimetric	07/18/01	07/19/01	0107069	
01AMHV216SL (M107038-05) Soil					Sampled: 07/18/01	Received: 07/18/01			
% Solids	**98.8**	0.0100	% by Weight	1	Gravimetric	07/18/01	07/19/01	0107069	
01AMHV217SL (M107038-06) Soil					Sampled: 07/18/01	Received: 07/18/01			
% Solids	**96.5**	0.0100	% by Weight	1	Gravimetric	07/18/01	07/19/01	0107069	
01AMHV218SL (M107038-07) Soil					Sampled: 07/18/01	Received: 07/18/01			
% Solids	**100**	0.0100	% by Weight	1	Gravimetric	07/18/01	07/19/01	0107069	

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Bristol Environmental & Engineering	Project:	Amchitka	
2000 W International Airport C#1	Project Number:	21090	**Reported:**
Anchorage, AK 99502-1116	Project Manager:	Anne Kranawetter	10/25/01 01:39

Diesel Hydrocarbons (C10-C25) per AK102 - Quality Control

North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0107067 - 3545 ASE										
Blank (0107067-BLK1)				Prepared & Analyzed: 07/18/01						
Diesel Range Organics	ND	150	mg/kg wet							
Surr: 1-Chlorooctadecane	*23.1*		"	*23.7*		*97.5*	*50-150*			
Surr: Triacontane	*13.7*		"	*23.5*		*58.3*	*50-150*			
LCS (0107067-BS1)				Prepared & Analyzed: 07/18/01						
Diesel Range Organics	993	150	mg/kg wet	1250		79.4	75-125			
Surr: 1-Chlorooctadecane	*21.5*		"	*23.7*		*90.7*	*50-150*			
Surr: Triacontane	*21.1*		"	*23.5*		*89.8*	*50-150*			
LCS Dup (0107067-BSD1)				Prepared & Analyzed: 07/18/01						
Diesel Range Organics	978	150	mg/kg wet	1250		78.2	75-125	1.52	20	
Surr: 1-Chlorooctadecane	*20.5*		"	*23.7*		*86.5*	*50-150*			
Surr: Triacontane	*20.7*		"	*23.5*		*88.1*	*50-150*			
Matrix Spike (0107067-MS1)		**Source: M107038-01**		Prepared & Analyzed: 07/18/01						
Diesel Range Organics	1430	150	mg/kg dry	1260	ND	109	60-140			
Surr: 1-Chlorooctadecane	*29.5*		"	*23.9*		*123*	*50-150*			
Surr: Triacontane	*14.6*		"	*23.7*		*61.6*	*50-150*			

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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Bristol Environmental & Engineering	Project:	Amchitka	
2000 W International Airport C#1	Project Number:	21090	**Reported:**
Anchorage, AK 99502-1116	Project Manager:	Anne Kranawetter	10/25/01 01:39

BTEX,MTBE and Naphthalene per EPA Method 8021B - Quality Control

North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0107066 - MeOH Extraction										
Blank (0107066-BLK1)				Prepared & Analyzed: 07/18/01						
Benzene	ND	0.0250	mg/kg wet							
Toluene	ND	0.100	"							
Ethylbenzene	ND	0.100	"							
Xylenes (total)	ND	0.200	"							
Naphthalene	ND	1.00	"							
Surr: 4-BFB	*2.54*		*"*	*2.50*		*102*	*50-150*			
LCS (0107066-BS1)				Prepared & Analyzed: 07/18/01						
Benzene	2.28	0.0250	mg/kg wet	2.50		91.2	69-138			
Toluene	2.41	0.100	"	2.50		96.4	53-151			
Ethylbenzene	2.46	0.100	"	2.50		98.4	61-141			
Xylenes (total)	7.45	0.200	"	7.50		99.3	62-141			
Naphthalene	3.01	1.00	"	2.50		120	65-135			
Surr: 4-BFB	*2.72*		*"*	*2.50*		*109*	*50-150*			

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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Bristol Environmental & Engineering	Project:	Amchitka	
2000 W International Airport C#1	Project Number:	21090	**Reported:**
Anchorage, AK 99502-1116	Project Manager:	Anne Kranawetter	10/25/01 01:39

Notes and Definitions

D-16	Detected hydrocarbons in the diesel do not have a distinct diesel pattern and may be due to heavily weathered diesel.
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. MRLs are adjusted if %Solids are less than 50%.
wet	Sample results reported on a wet weight basis (as received)
RPD	Relative Percent Difference

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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Items for Project Manager Review

LabNumber	Analysis	Analyte	Exception
			Report recreated from: \\sisters\elmnt\Report\M107038 FINAL 10 25 01 0139.mdb
			Default Report (not modified)
M107038-06	AK102 (DRO)	Diesel Range Organics	D-16

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DEC 05 2001

Bristol Environmental & Engineering	Project:	Amchitka	Sampled:	7/18/01
2000 W. International Airport C#1	Project Number:	21090	Received:	7/18/01
Anchorage, AK 99502-1116	Project Manager:	Anne Kranawetter	Reported:	11/27/01

ANALYTICAL REPORT FOR SAMPLES:

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
01AMHV212SL	M107038-01	Soil	7/18/01
01AMHV213SL	M107038-02	Soil	7/18/01
01AMHV214SL	M107038-03	Soil	7/18/01
01AMHV215SL	M107038-04	Soil	7/18/01
01AMHV216SL	M107038-05	Soil	7/18/01
01AMHV217SL	M107038-06	Soil	7/18/01
01AMHV218SL	M107038-07	Soil	7/18/01

C. O. C. # 180

All of the samples listed above were supposed to have been analyzed by NCA for AK 101 GRO. Samples 01AMHV212 - 217 were supposed to have been analyzed additionally for AK103 RRO. The samples were analyzed for 8021B BTEX and AK 102 and after review of the chromatograms for these analyses no detections of gasoline or residual range organics were detected at standard laboratory reporting limits. No batch QC exists for either AK 101 or AK 103 analyses. The estimated reporting limit for GRO was raised to 5 mg/kg due to evaluation of PID trace for GRO versus standard FID trace.

Sample Description	Analysis	Result	Est. Reporting Limit	Units
01AMHV212SL	AK 101 GRO	ND	5	mg/kg dry
01AMHV212SL	AK 103 RRO	ND	372	mg/kg dry
01AMHV213SL	AK 101 GRO	ND	5	mg/kg dry
01AMHV213SL	AK 103 RRO	ND	364	mg/kg dry
01AMHV214SL	AK 101 GRO	ND	5	mg/kg dry
01AMHV214SL	AK 103 RRO	ND	364	mg/kg dry
01AMHV215SL	AK 101 GRO	ND	5	mg/kg dry
01AMHV215SL	AK 103 RRO	ND	368	mg/kg dry
01AMHV216SL	AK 101 GRO	ND	5	mg/kg dry
01AMHV216SL	AK 103 RRO	ND	365	mg/kg dry
01AMHV217SL	AK 101 GRO	ND	5	mg/kg dry
01AMHV217SL	AK 103 RRO	ND	380	mg/kg dry
01AMHV218SL	AK 101 GRO	ND	5	mg/kg dry

Craig Bradle, Senior Analytical Chemist

North Creek Analytical, Inc.
Environmental Laboratory Network

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\071801.SEC\G1801013.D Vial: 12
Acq On : 18 Jul 101 5:24 pm Operator: sw
Sample : M107038-01 Inst : Dual FID-
Misc : soil sample Multiplr: 1.00
IntFile : OIL.E
Quant Time: Jul 19 8:27 19101 Quant Results File: DXB0701B.RES

Quant Method : C:\HPCHEM\1\METHODS\DXB0701B.M (Chemstation Integrator)
Title : TPH-D Rear Method
Last Update : Mon Jun 18 14:34:15 2001
Response via : Initial Calibration
DataAcq Meth : DXB0701F.M

Volume Inj. : 2.0 uL
Signal Phase : HP 5 MS , 30M x 0.25 mm x 0.25 um
Signal Info :

		Compound	R.T.	Response	Conc Units
System Monitoring Compounds					
1)	S	1-cod	15.69	350345	7.135 ug/mLm
2)	S	n-Triacontane	19.19	219629	4.229 ug/mLm
Target Compounds					
3)	H	AK102DRO (C10 - C25)	13.08	833336	~~17.608 ug/mL~~
4)	H	NW-Oil, AK103 (C25 - C36)	20.11	0	N.D. ug/mL
5)	H	NW-Dx (C12-C24)	13.85	656278	~~17.671 ug/mL~~

DRO/RRO Chromatogram/Report

N.D.

adjusted MRL = 372 mg/kg dry

Sample #

01AMHV212SL

(f)=RT Delta > 1/2 Window (m)=manual int.
G1801013.D DXB0701B.M Thu Jul 19 08:27:40 2001

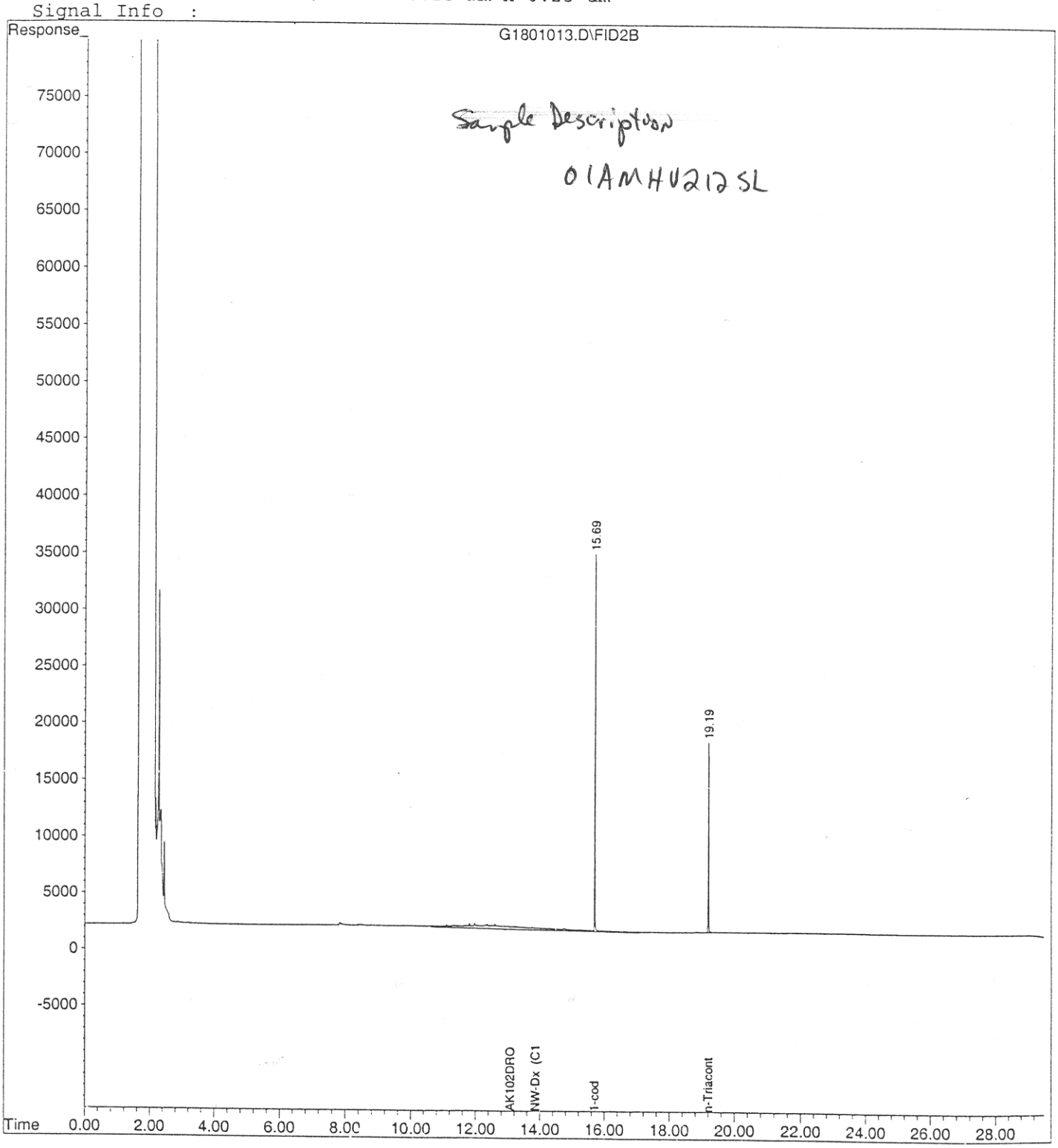
Quantitation Report

Data File : C:\HPCHEM\1\DATA\071801.SEC\G1801013.D
Acq On : 18 Jul 101 5:24 pm
Sample : M107038-01
Misc : soil sample
IntFile : OIL.E
Quant Time: Jul 19 8:27 19101 Quant Results File: DXB0701B.RES

Vial: 12
Operator: sw
Inst : Dual FID-
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\METHODS\DXB0701B.M (Chemstation Integrator)
Title : TPH-D Rear Method
Last Update : Mon Jun 18 14:34:15 2001
Response via : Multiple Level Calibration
DataAcq Meth : DXB0701F.M

Volume Inj. : 2.0 uL
Signal Phase : HP 5 MS , 30M x 0.25 mm x 0.25 um
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\071801\G1801016.D Vial: 23
Acq On : 18 Jul 101 6:07 pm Operator: sw
Sample : M107038-02 Inst : Dual FID-
Misc : soil sample Multiplr: 1.00
IntFile : OIL.E
Quant Time: Jul 19 8:23 19101 Quant Results File: DXE3001F.RES

Quant Method : C:\HPCHEM\1\METHODS\DXE3001F.M (Chemstation Integrator)
Title : TPH-D Rear Method
Last Update : Thu May 31 09:42:15 2001
Response via : Initial Calibration
DataAcq Meth : DXB0701F.M

Volume Inj. : 2.0 uL
Signal Phase : HP 5 MS , 30M x 0.25 mm x 0.25 um
Signal Info :

		Compound	R.T.	Response	Conc Units
System Monitoring Compounds					
1)	S	1-cod	16.01	418793	6.507 ug/mL
2)	S	n-Triacontane	19.64	227731	5.368 ug/mL
Target Compounds					
3)	H	AK102DRO (C10 - C25)	13.37	61756	0.821 ug/mL
4)	H	NW-Oil, AK103 (C25 - C36)	20.86	51425	2.084 ug/mL
5)	H	NW-Dx (C12-C24)	14.07	52512	0.899 ug/mL

$2.08 \frac{ug}{ml} \times \frac{50 ml}{16.61} = 6.5 ug/g \Rightarrow mg/Kg$

N.D

initial MRL = 300 mg/Kg
adjusted MRL for initial wt/final volume and % solids
= 364 mg/kg dry

DRO/RRO
Chromatogram/Report

Sample Description
01AMHV213SL

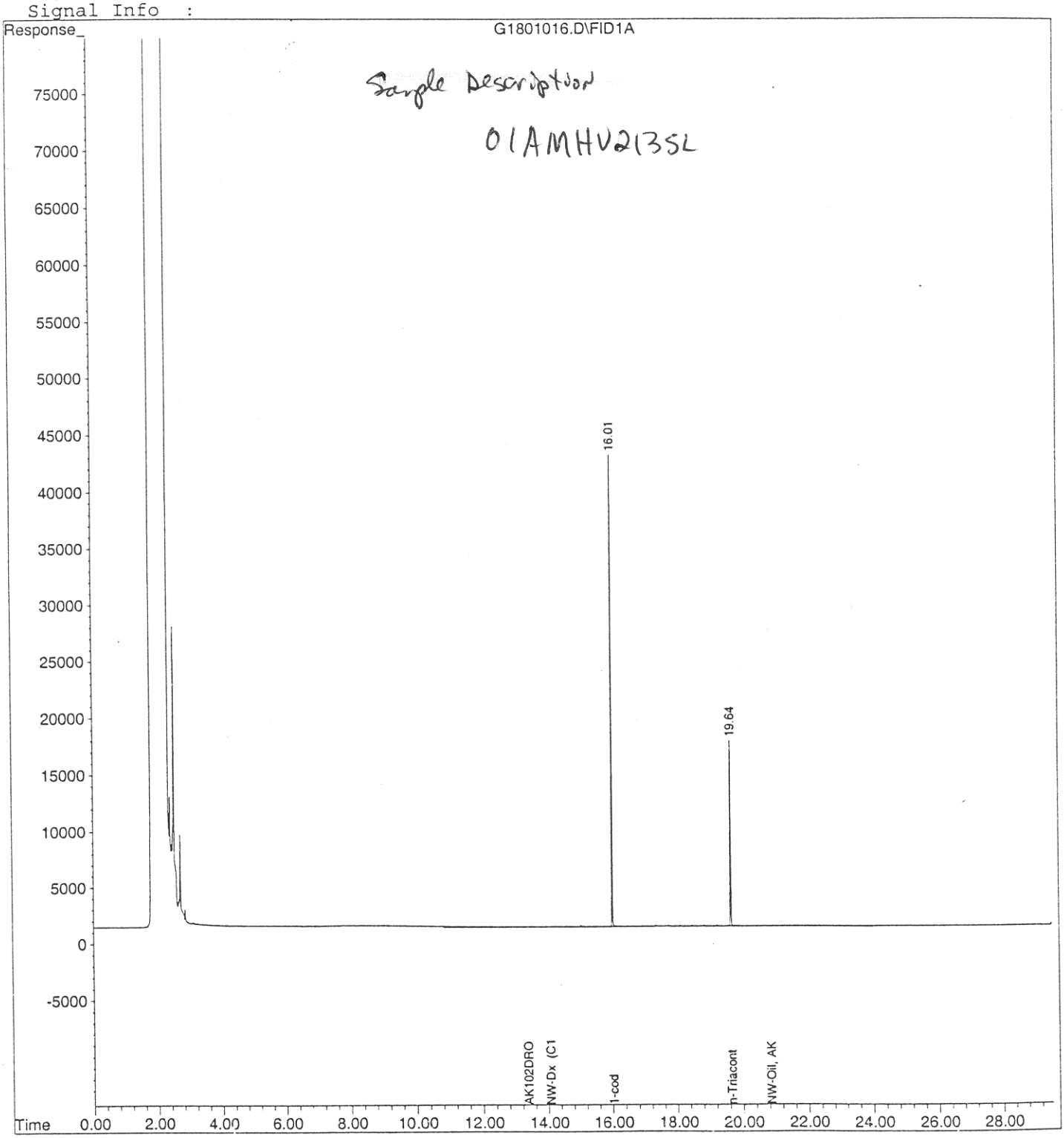
(f)=RT Delta > 1/2 Window (m)=manual int.
G1801016.D DXE3001F.M Thu Jul 19 08:24:06 2001

Quantitation Report

Data File : C:\HPCHEM\1\DATA\071801\G1801016.D Vial: 23
Acq On : 18 Jul 101 6:07 pm Operator: sw
Sample : M107038-02 Inst : Dual FID-
Misc : soil sample Multiplr: 1.00
IntFile : OIL.E
Quant Time: Jul 19 8:23 19101 Quant Results File: DXE3001F.RES

Quant Method : C:\HPCHEM\1\METHODS\DXE3001F.M (Chemstation Integrator)
Title : TPH-D Rear Method
Last Update : Thu May 31 09:42:15 2001
Response via : Multiple Level Calibration
DataAcq Meth : DXB0701F.M

Volume Inj. : 2.0 uL
Signal Phase : HP 5 MS , 30M x 0.25 mm x 0.25 um
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\071801.SEC\G1801017.D Vial: 14
Acq On : 18 Jul 101 6:49 pm Operator: sw
Sample : M107038-03 Inst : Dual FID-
Misc : soil sample Multiplr: 1.00
IntFile : OIL.E
Quant Time: Jul 19 8:30 19101 Quant Results File: DXB0701B.RES

Quant Method : C:\HPCHEM\1\METHODS\DXB0701B.M (Chemstation Integrator)
Title : TPH-D Rear Method
Last Update : Mon Jun 18 14:34:15 2001
Response via : Initial Calibration
DataAcq Meth : DXB0701F.M

Volume Inj. : 2.0 uL
Signal Phase : HP 5 MS , 30M x 0.25 mm x 0.25 um
Signal Info :

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
1)	S	1-cod	15.69	368364	7.502	ug/mLm
2)	S	n-Triacontane	19.19	233709	4.500	ug/mLm
		Target Compounds				
3)	H	AK102DRO (C10 - C25)	13.08	70982	1.500	ug/mL
4)	H	NW-Oil, AK103 (C25 - C36)	20.11	0	N.D.	ug/mL
5)	H	NW-Dx (C12-C24)	13.85	67707	1.823	ug/mL

DRO/RRO Chromatogram/Report

ND

Adjusted MRL = 364 mg/kg dry

Sample Description

~~01AM214~~

01AMHV214SL

(f)=RT Delta > 1/2 Window (m)=manual int.

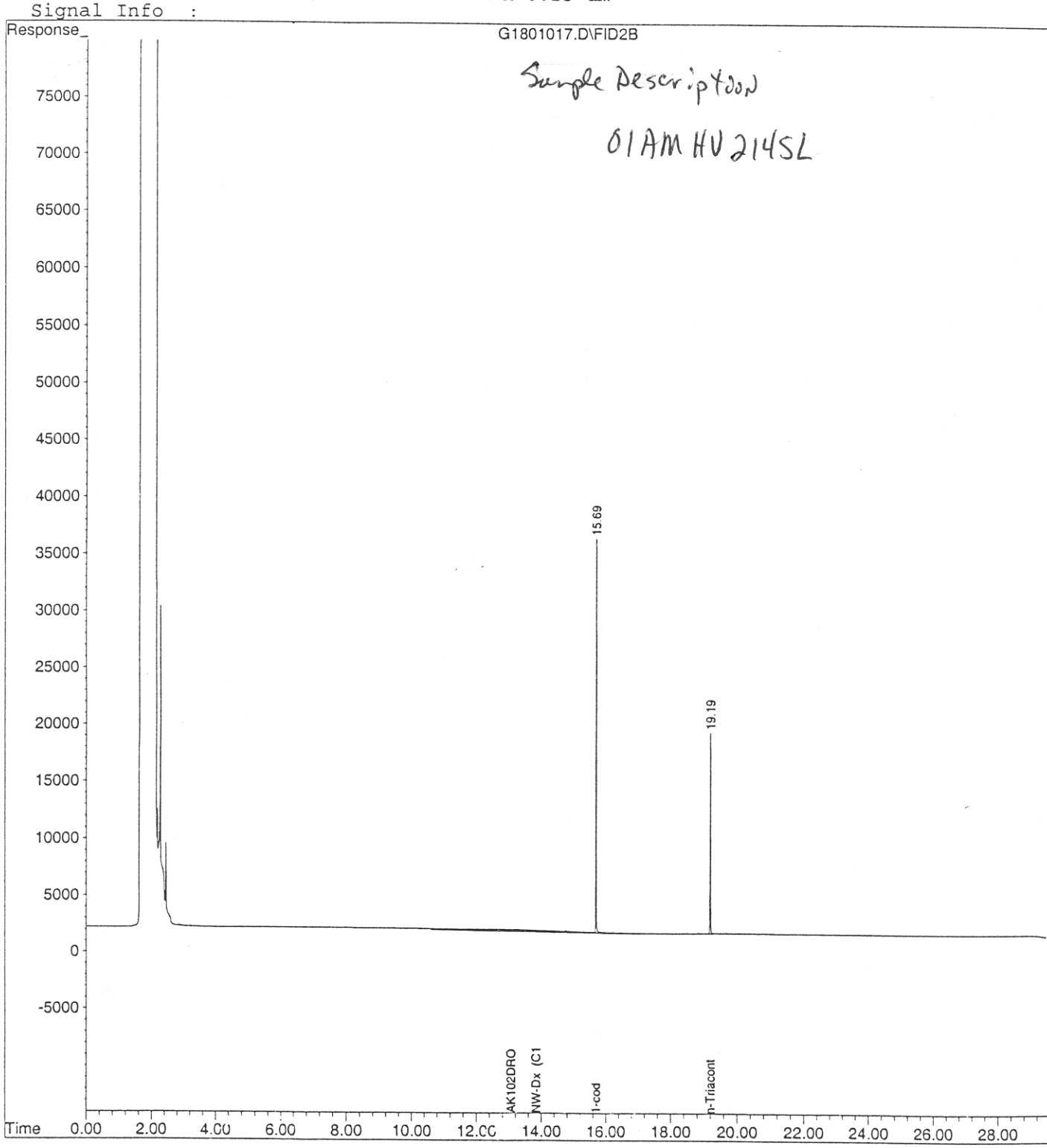
Quantitation Report

Data File : C:\HPCHEM\1\DATA\071801.SEC\G1801017.D
Acq On : 18 Jul 101 6:49 pm
Sample : M107038-03
Misc : soil sample
IntFile : OIL.E
Quant Time: Jul 19 8:30 19101 Quant Results File: DXB0701B.RES

Vial: 14
Operator: sw
Inst : Dual FID-
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\METHODS\DXB0701B.M (Chemstation Integrator)
Title : TPH-D Rear Method
Last Update : Mon Jun 18 14:34:15 2001
Response via : Multiple Level Calibration
DataAcq Meth : DXB0701F.M

Volume Inj. : 2.0 uL
Signal Phase : HP 5 MS , 30M x 0.25 mm x 0.25 um
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\071801\G1801018.D Vial: 24
Acq On : 18 Jul 101 6:49 pm Operator: sw
Sample : M107038-04 Inst : Dual FID-
Misc : soil sample Multiplr: 1.00
IntFile : OIL.E
Quant Time: Jul 19 8:24 19101 Quant Results File: DXE3001F.RES

Quant Method : C:\HPCHEM\1\METHODS\DXE3001F.M (Chemstation Integrator)
Title : TPH-D Rear Method
Last Update : Thu May 31 09:42:15 2001
Response via : Initial Calibration
DataAcq Meth : DXB0701F.M

Volume Inj. : 2.0 uL
Signal Phase : HP 5 MS , 30M x 0.25 mm x 0.25 um
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 1-cod	16.01	435469	6.766 ug/mL
2) S n-Triacontane	19.64	247404	5.831 ug/mL
Target Compounds			
3) H AK102DRO (C10 - C25)	13.37	174629	2.321 ug/mL
4) H NW-Oil, AK103 (C25 - C36)	20.86	18898	0.766 ug/mL
5) H NW-Dx (C12-C24)	14.07	101817	1.743 ug/mL

PRO/RRO
Chromatogram/Report

$.766 \times \frac{50}{16.64} = 2.3$ mg/kg

ND

Adjusted MRL = 368 mg/kg dry

Sample Description

01AMHV215SL

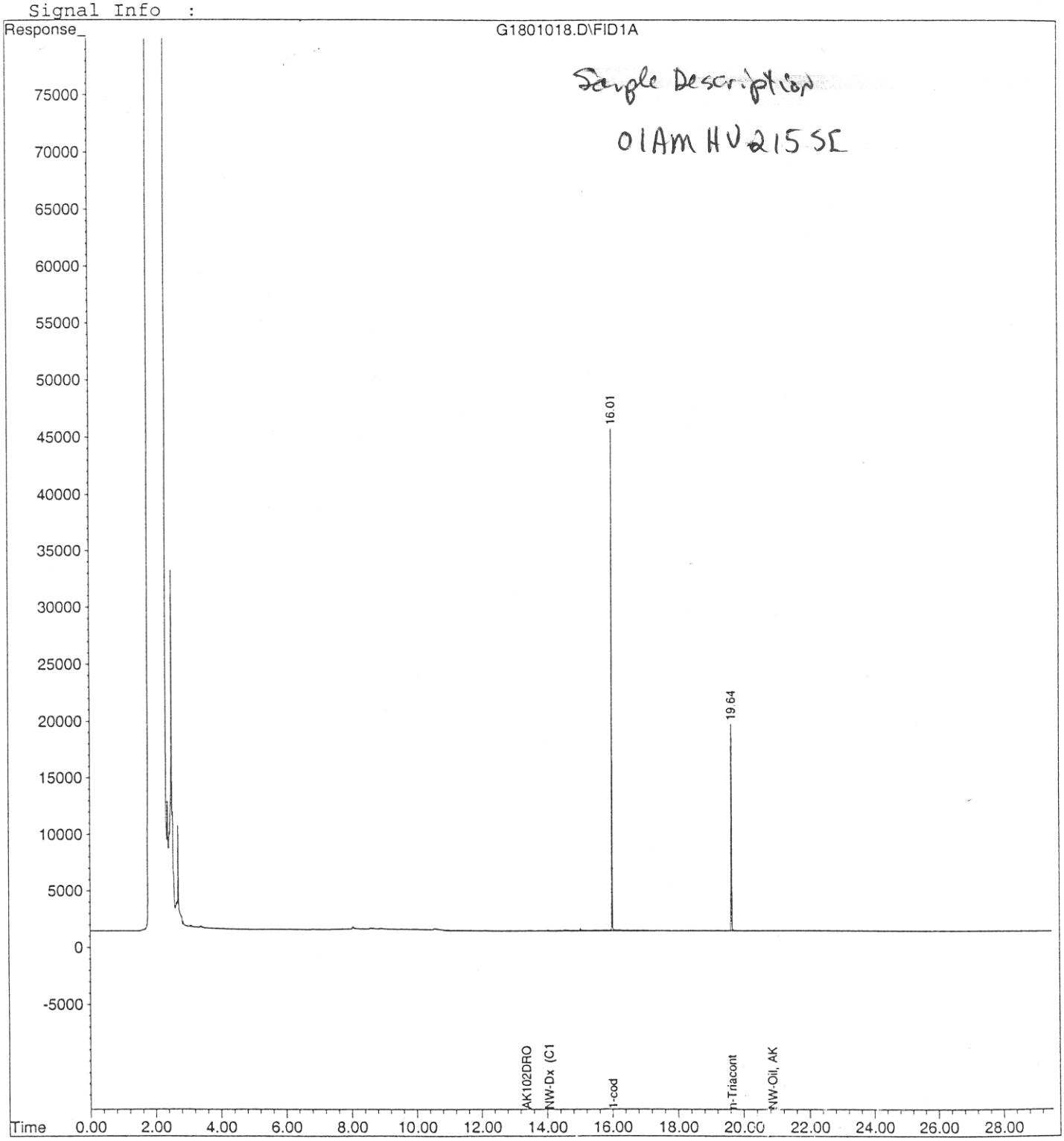
(f)=RT Delta > 1/2 Window (m)=manual int.
G1801018.D DXE3001F.M Thu Jul 19 08:24:49 2001

Quantitation Report

Data File : C:\HPCHEM\1\DATA\071801\G1801018.D Vial: 24
Acq On : 18 Jul 101 6:49 pm Operator: sw
Sample : M107038-04 Inst : Dual FID-
Misc : soil sample Multiplr: 1.00
IntFile : OIL.E
Quant Time: Jul 19 8:24 19101 Quant Results File: DXE3001F.RES

Quant Method : C:\HPCHEM\1\METHODS\DXE3001F.M (Chemstation Integrator)
Title : TPH-D Rear Method
Last Update : Thu May 31 09:42:15 2001
Response via : Multiple Level Calibration
DataAcq Meth : DXB0701F.M

Volume Inj. : 2.0 uL
Signal Phase : HP 5 MS , 30M x 0.25 mm x 0.25 um
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\071801.SEC\G1801019.D Vial: 15
Acq On : 18 Jul 101 7:32 pm Operator: sw
Sample : M107038-05 Inst : Dual FID-
Misc : soil sample Multiplr: 1.00
IntFile : OIL.E
Quant Time: Jul 19 8:30 19101 Quant Results File: DXB0701B.RES

Quant Method : C:\HPCHEM\1\METHODS\DXB0701B.M (Chemstation Integrator)
Title : TPH-D Rear Method
Last Update : Mon Jun 18 14:34:15 2001
Response via : Initial Calibration
DataAcq Meth : DXB0701F.M

Volume Inj. : 2.0 uL
Signal Phase : HP 5 MS , 30M x 0.25 mm x 0.25 um
Signal Info :

		Compound	R.T.	Response	Conc Units
System Monitoring Compounds					
1)	S	1-cod	15.69	355177	7.234 ug/mLm
2)	S	n-Triacontane	19.19	217989	4.198 ug/mLm
Target Compounds					
3)	H	AK102DRO (C10 - C25)	13.08	79540	1.681 ug/mL
4)	H	NW-Oil, AK103 (C25 - C36)	20.11	0	N.D. ug/mL
5)	H	NW-Dx (C12-C24)	13.85	71844	1.934 ug/mL

DRO/RRO Chromatogram/Report

ND

Adjusted MRL = 365 mg/kg

Sample Description

01AMHV216SL

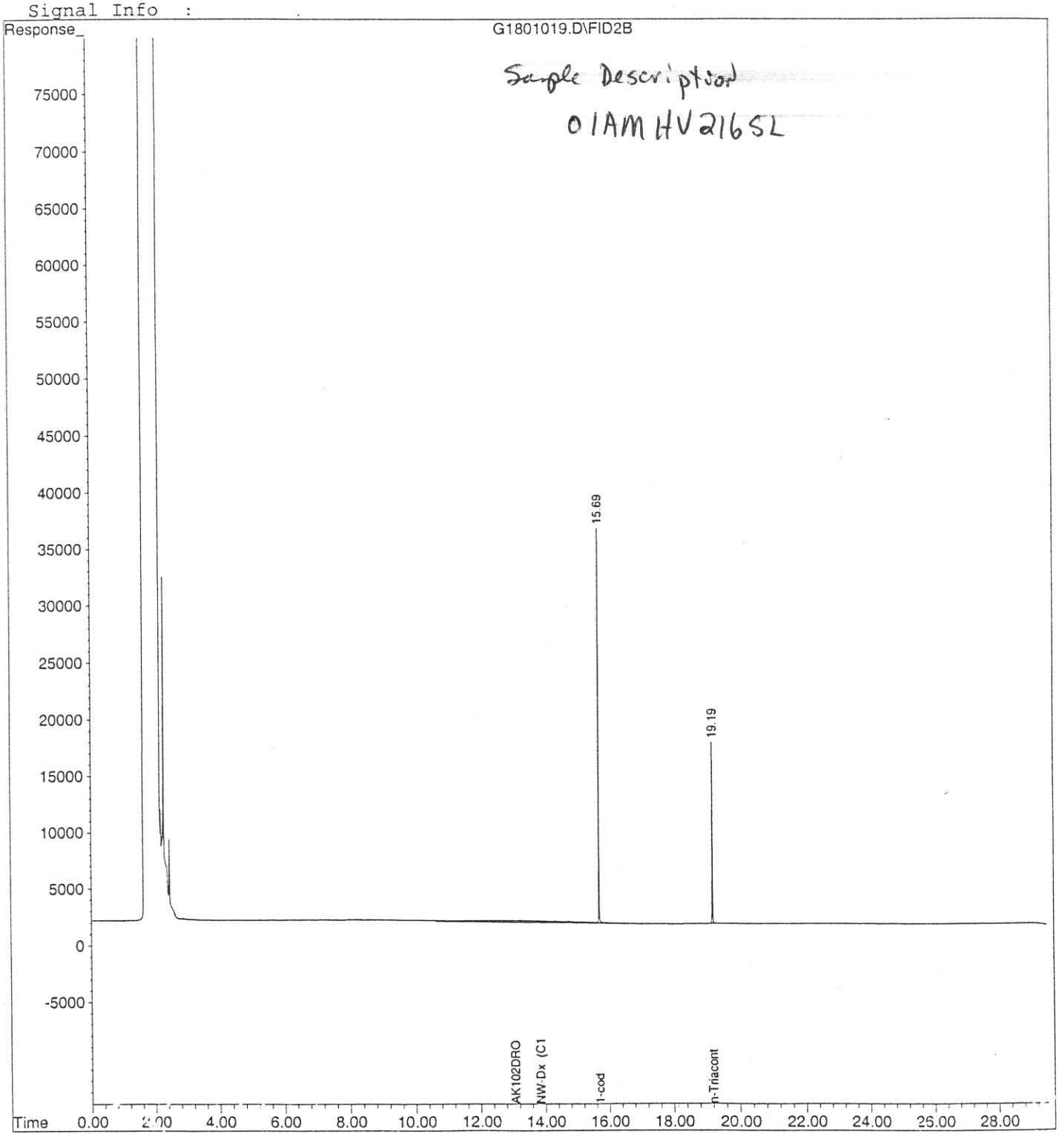
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\071801.SEC\G1801019.D Vial: 15
Acq On : 18 Jul 101 7:32 pm Operator: sw
Sample : M107038-05 Inst : Dual FID-
Misc : soil sample Multiplr: 1.00
IntFile : OIL.E
Quant Time: Jul 19 8:30 19101 Quant Results File: DXB0701B.RES

Quant Method : C:\HPCHEM\1\METHODS\DXB0701B.M (Chemstation Integrator)
Title : TPH-D Rear Method
Last Update : Mon Jun 18 14:34:15 2001
Response via : Multiple Level Calibration
DataAcq Meth : DXB0701F.M

Volume Inj. : 2.0 uL
Signal Phase : HP 5 MS , 30M x 0.25 mm x 0.25 um
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\071801\G1801020.D Vial: 25
Acq On : 18 Jul 101 7:32 pm Operator: sw
Sample : M107038-06 Inst : Dual FID-
Misc : soil sample Multiplr: 1.00
IntFile : OIL.E
Quant Time: Jul 19 8:25 19101 Quant Results File: DXE3001F.RES

Quant Method : C:\HPCHEM\1\METHODS\DXE3001F.M (Chemstation Integrator)
Title : TPH-D Rear Method
Last Update : Thu May 31 09:42:15 2001
Response via : Initial Calibration
DataAcq Meth : DXB0701F.M

Volume Inj. : 2.0 uL
Signal Phase : HP 5 MS , 30M x 0.25 mm x 0.25 um
Signal Info :

		Compound	R.T.	Response	Conc Units
System Monitoring Compounds					
1)	S	1-cod	16.01	454854	7.067 ug/mLm
2)	S	n-Triacontane	19.64	311410	7.340 ug/mLm
Target Compounds					
3)	H	AK102DRO (C10 - C25)	13.37	5732089	76.182 ug/mL
4)	H	NW-Oil, AK103 (C25 - C36)	20.86	876027	35.494 ug/mL
5)	H	NW-Dx (C12-C24)	14.07	5433943	93.039 ug/mL

DRO/RRO
Chromatogram/Report

$$35.494 \times \frac{50}{16.36} = 108.5 \text{ mg/Kg}$$

Sample Description
01AMHV217SL

ND

initial MRL = 300 mg/Kg

MRL adjusted for initial wt/final volume and % solids = 380 mg/kg dry

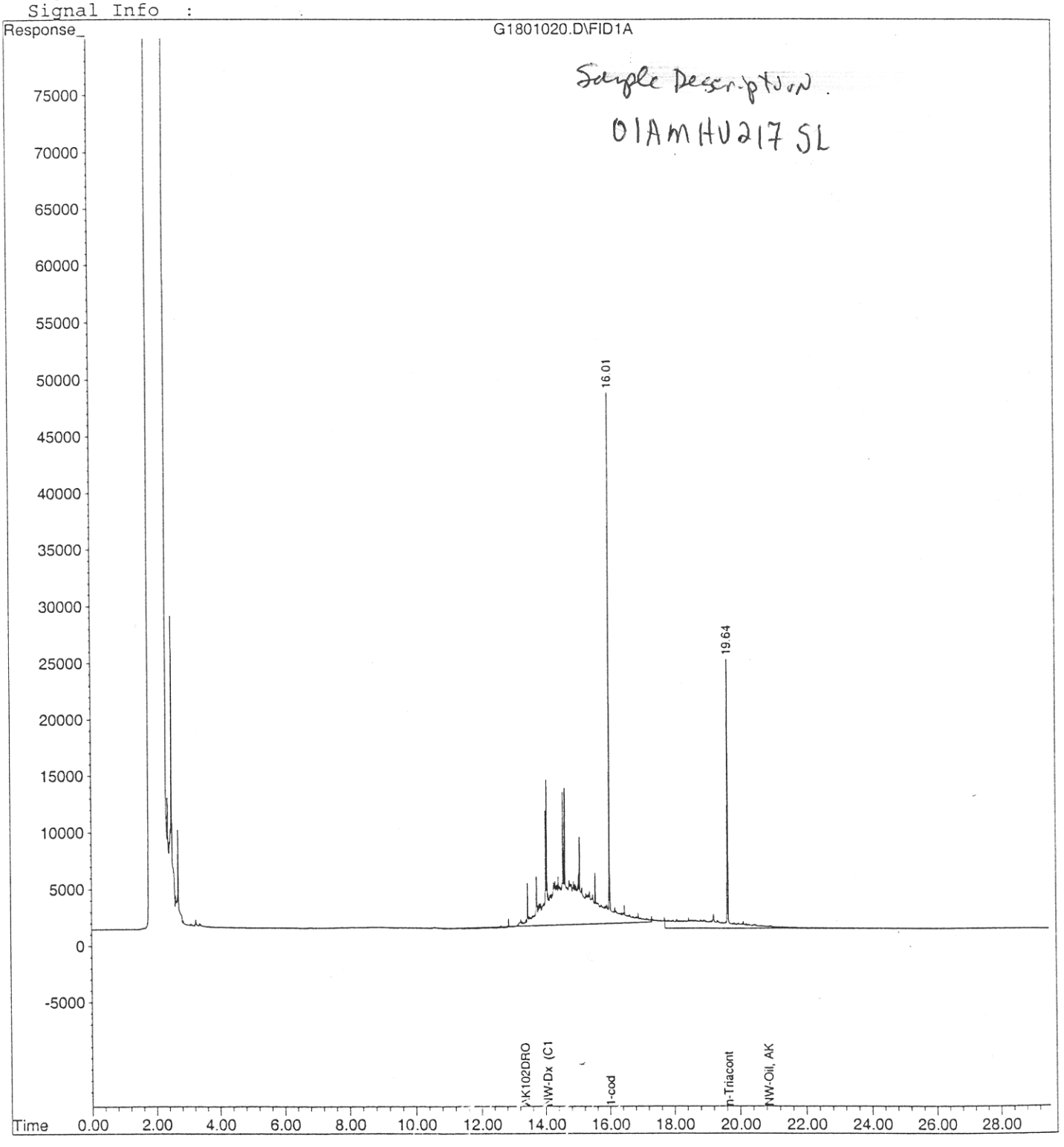
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\071801\G1801020.D Vial: 25
Acq On : 18 Jul 101 7:32 pm Operator: sw
Sample : M107038-06 Inst : Dual FID-
Misc : soil sample Multiplr: 1.00
IntFile : OIL.E
Quant Time: Jul 19 8:25 19101 Quant Results File: DXE3001F.RES

Quant Method : C:\HPCHEM\1\METHODS\DXE3001F.M (Chemstation Integrator)
Title : TPH-D Rear Method
Last Update : Thu May 31 09:42:15 2001
Response via : Multiple Level Calibration
DataAcq Meth : DXB0701F.M

Volume Inj. : 2.0 uL
Signal Phase : HP 5 MS , 30M x 0.25 mm x 0.25 um
Signal Info :

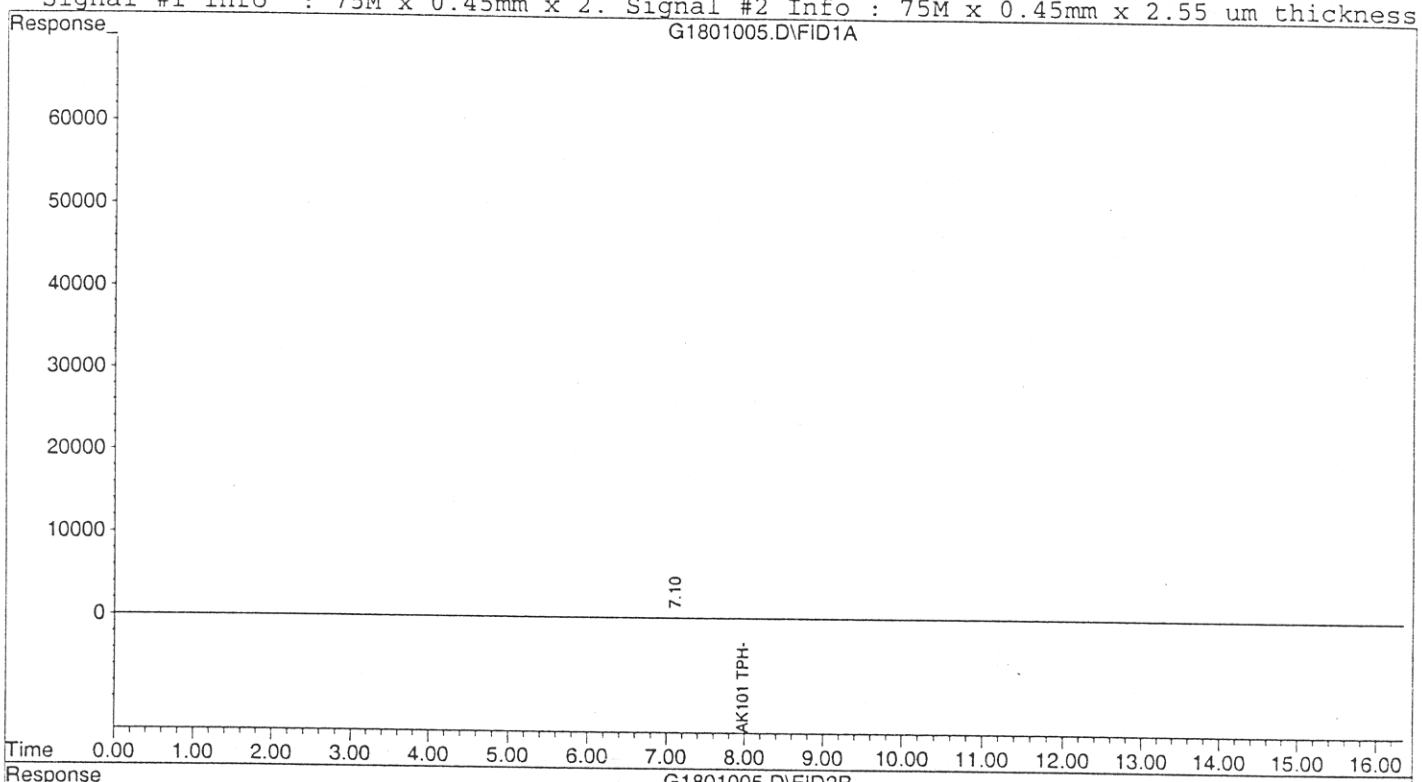


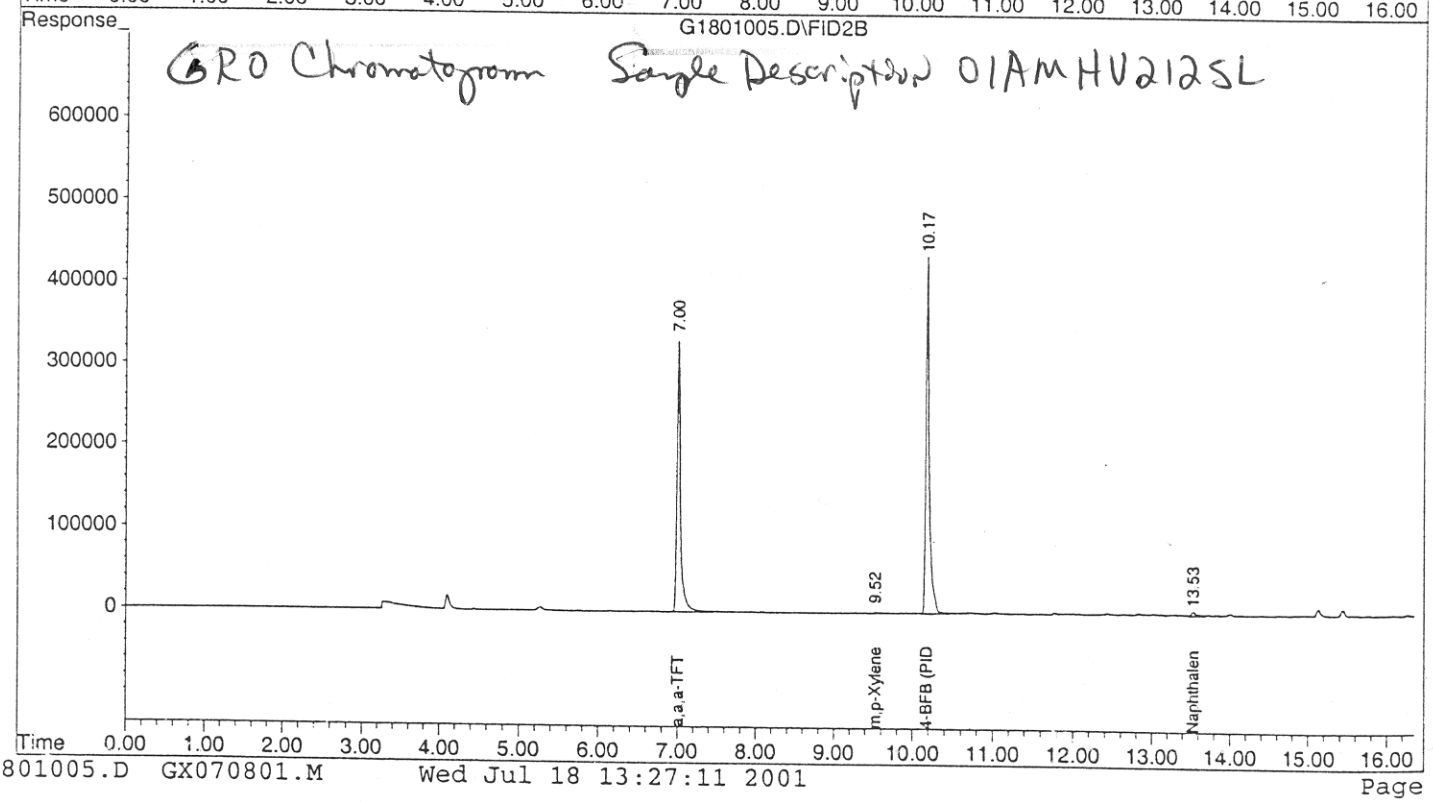
Quantitation Report

Signal #1 : C:\HPCHEM\2\DATA\071801\G1801005.D\FID1A.CH Vial: 5
Signal #2 : C:\HPCHEM\2\DATA\071801\G1801005.D\FID2B.CH
Acq On : 18 Jul 2001 1:10 pm Operator: sw
Sample : M107038-01 x200 (50ul) Inst : PID/FID-M
Misc : Soil Sample Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS.E
Quant Time: Jul 18 13:27 2001 Quant Results File: GX070801.RES

Quant Method : C:\HPCHEM\2\METHODS\GX070801.M (Chemstation Integrator)
Title : TPH-G Method
Last Update : Sat Jul 14 09:45:15 2001
Response via : Multiple Level Calibration
DataAcq Meth : GX070801.M

Volume Inj. : Purge and Trap
Signal #1 Phase : J&W VRX Megabore Signal #2 Phase: J&W VRX Megabore
Signal #1 Info : 75M x 0.45mm x 2. Signal #2 Info : 75M x 0.45mm x 2.55 um thickness



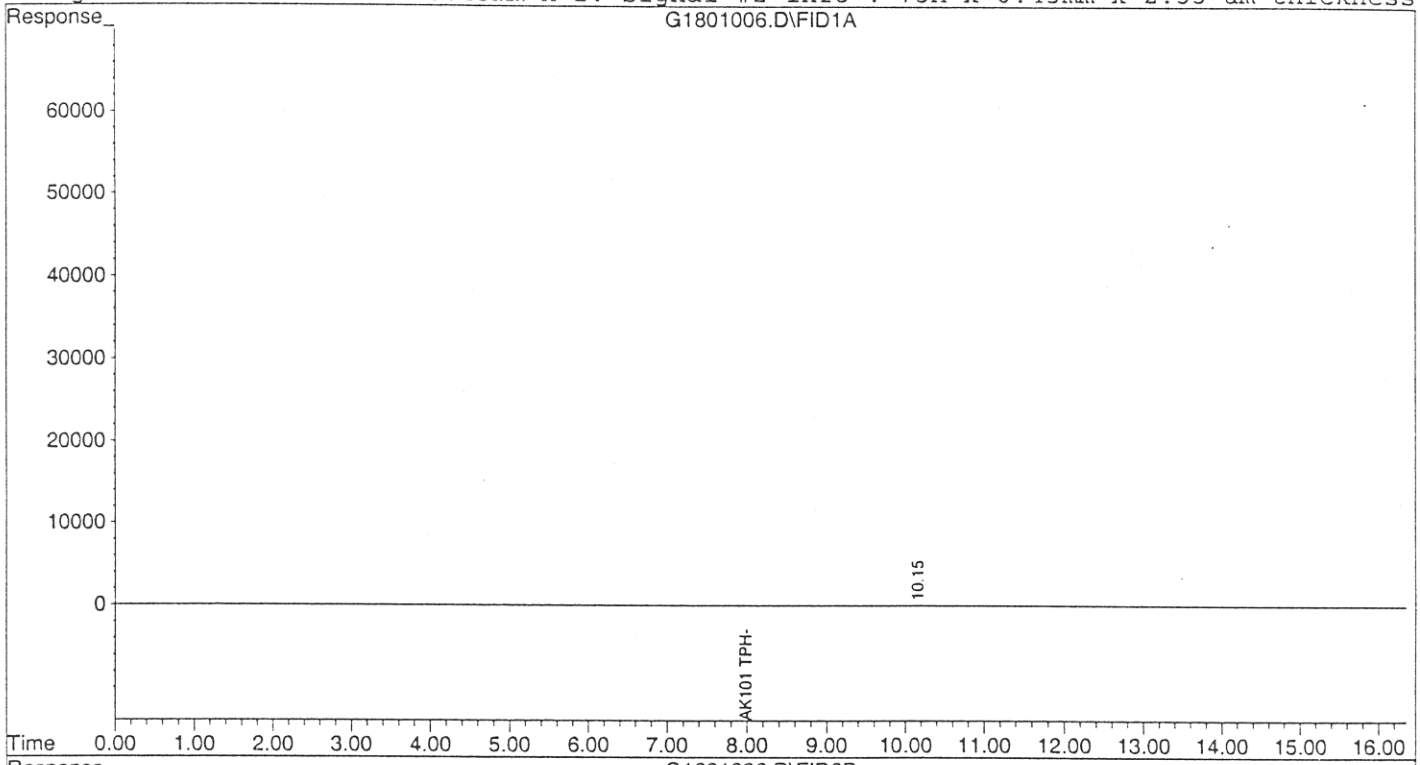


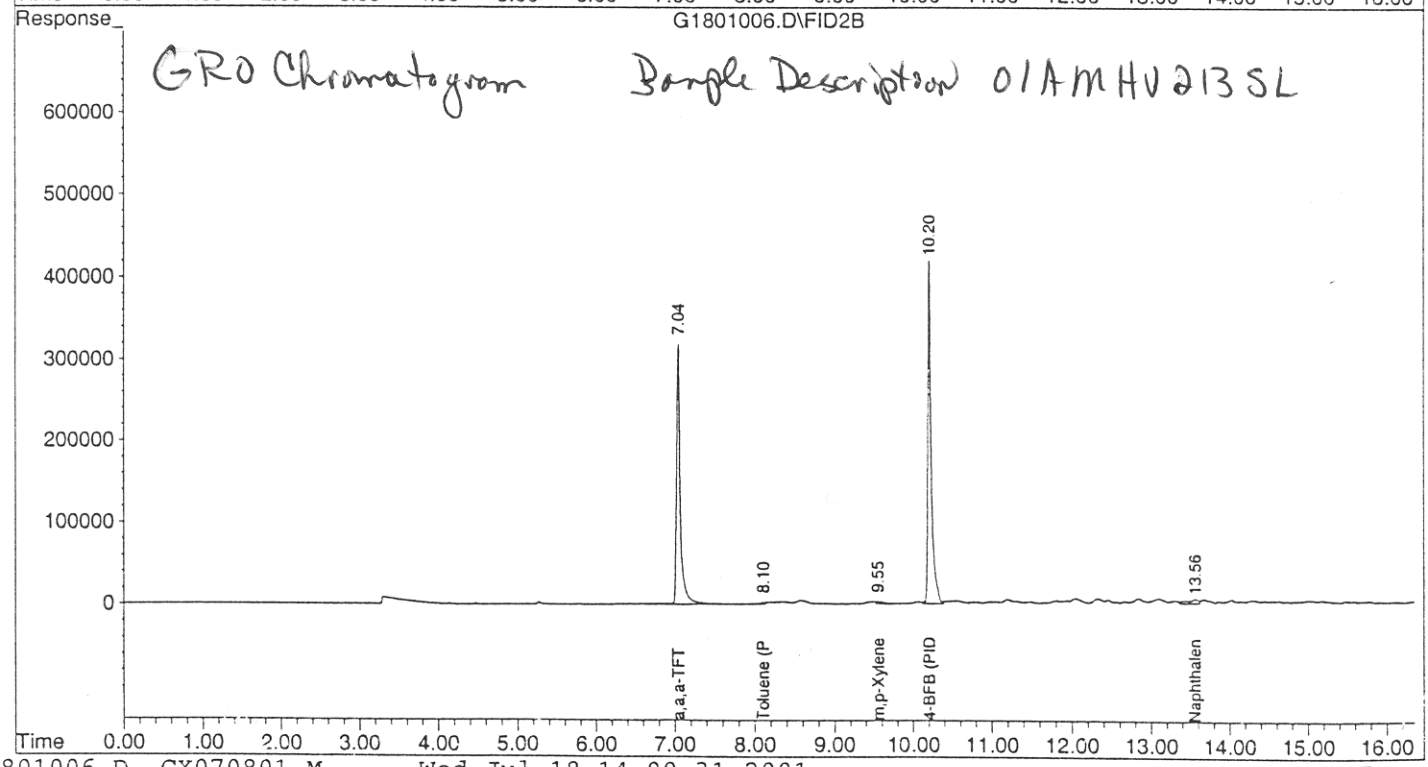
Quantitation Report

Signal #1 : C:\HPCHEM\2\DATA\071801\G1801006.D\FID1A.CH Vial: 6
Signal #2 : C:\HPCHEM\2\DATA\071801\G1801006.D\FID2B.CH
Acq On : 18 Jul 2001 1:43 pm Operator: sw
Sample : M107038-02 x200 (50ul) Inst : PID/FID-M
Misc : Soil Sample Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS.E
Quant Time: Jul 18 14:00 2001 Quant Results File: GX070801.RES

Quant Method : C:\HPCHEM\2\METHODS\GX070801.M (Chemstation Integrator)
Title : TPH-G Method
Last Update : Sat Jul 14 09:45:15 2001
Response via : Multiple Level Calibration
DataAcq Meth : GX070801.M

Volume Inj. : Purge and Trap
Signal #1 Phase : J&W VRX Megabore Signal #2 Phase: J&W VRX Megabore
Signal #1 Info : 75M x 0.45mm x 2. Signal #2 Info : 75M x 0.45mm x 2.55 um thickness



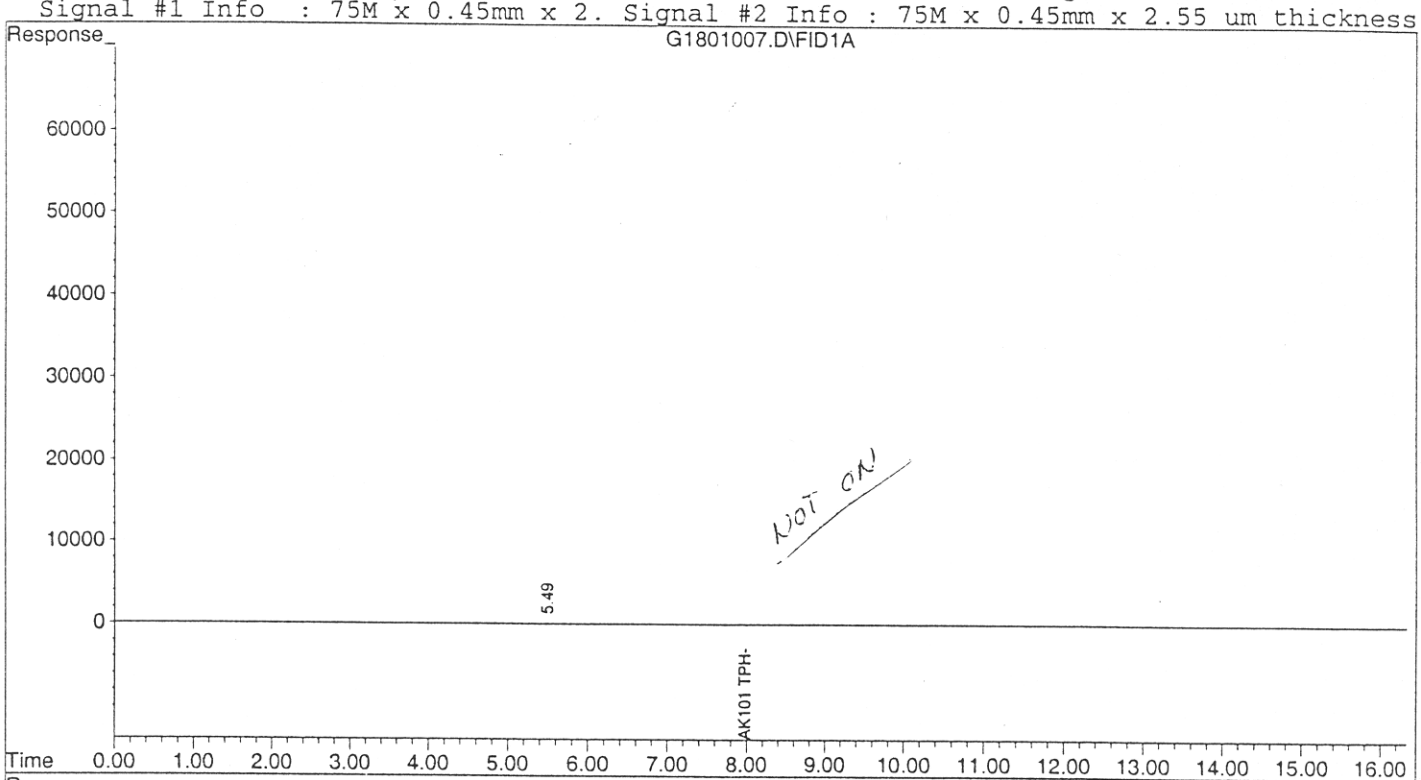


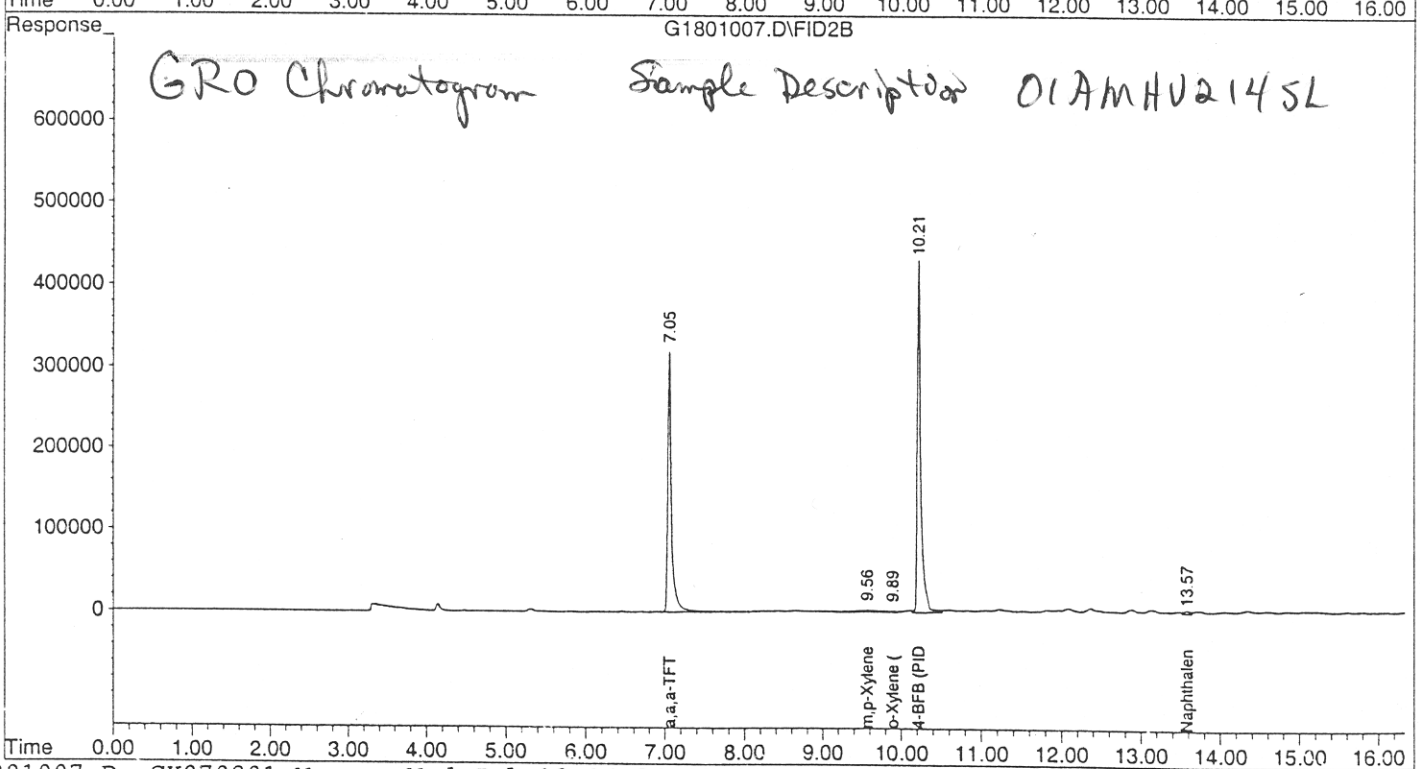
Quantitation Report

Signal #1 : C:\HPCHEM\2\DATA\071801\G1801007.D\FID1A.CH Vial: 7
Signal #2 : C:\HPCHEM\2\DATA\071801\G1801007.D\FID2B.CH
Acq On : 18 Jul 2001 2:17 pm Operator: sw
Sample : M107038-03 x200 (50ul) Inst : PID/FID-M
Misc : Soil Sample Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS.E
Quant Time: Jul 18 14:33 2001 Quant Results File: GX070801.RES

Quant Method : C:\HPCHEM\2\METHODS\GX070801.M (Chemstation Integrator)
Title : TPH-G Method
Last Update : Sat Jul 14 09:45:15 2001
Response via : Multiple Level Calibration
DataAcq Meth : GX070801.M

Volume Inj. : Purge and Trap
Signal #1 Phase : J&W VRX Megabore Signal #2 Phase: J&W VRX Megabore
Signal #1 Info : 75M x 0.45mm x 2. Signal #2 Info : 75M x 0.45mm x 2.55 um thickness



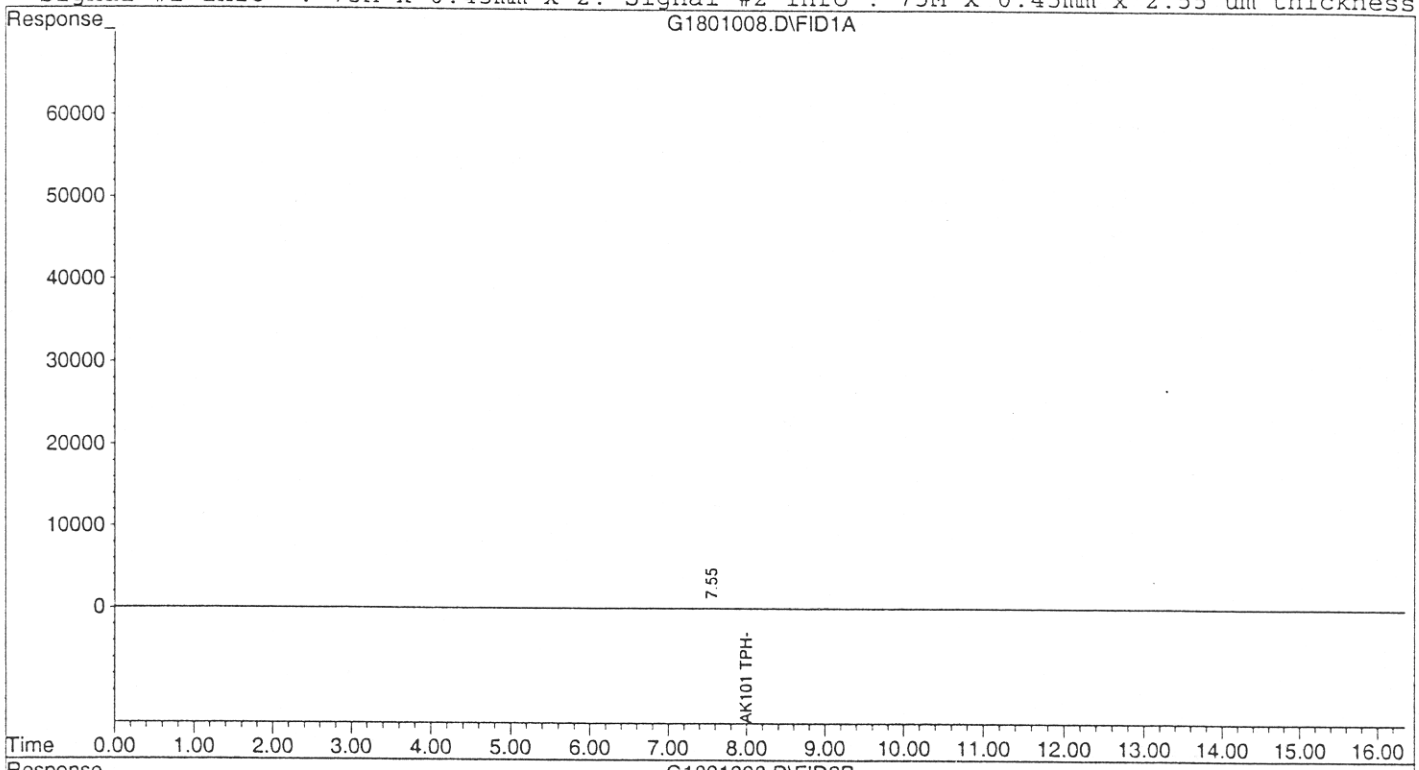


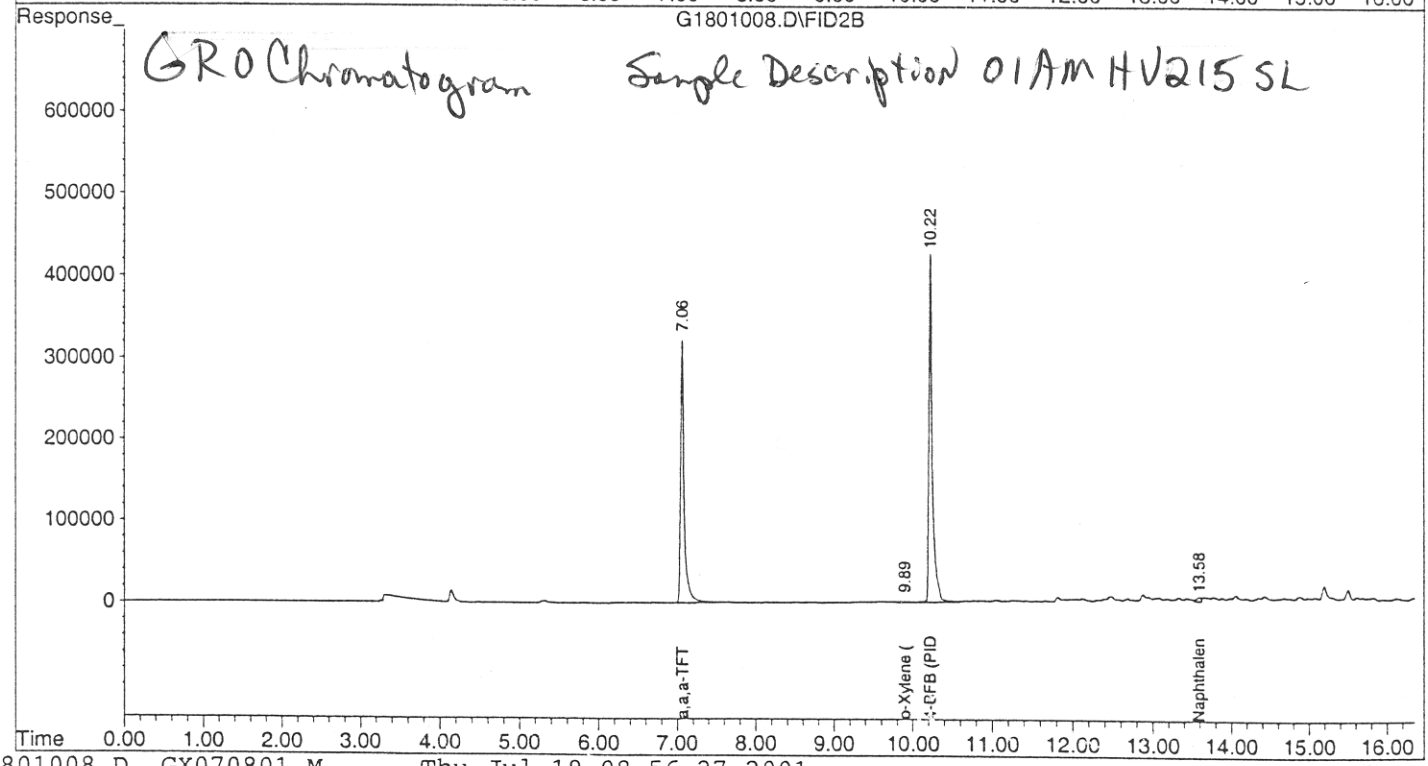
Quantitation Report

Signal #1 : C:\HPCHEM\2\DATA\071801\G1801008.D\FID1A.CH Vial: 8
Signal #2 : C:\HPCHEM\2\DATA\071801\G1801008.D\FID2B.CH
Acq On : 18 Jul 2001 2:51 pm Operator: sw
Sample : M107038-04 x200 (50ul) Inst : PID/FID-M
Misc : Soil Sample Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS.E
Quant Time: Jul 19 8:56 2001 Quant Results File: GX070801.RES

Quant Method : C:\HPCHEM\2\METHODS\GX070801.M (Chemstation Integrator)
Title : TPH-G Method
Last Update : Thu Jul 19 08:56:16 2001
Response via : Multiple Level Calibration
DataAcq Meth : GX070801.M

Volume Inj. : Purge and Trap
Signal #1 Phase : J&W VRX Megabore Signal #2 Phase: J&W VRX Megabore
Signal #1 Info : 75M x 0.45mm x 2. Signal #2 Info : 75M x 0.45mm x 2.55 um thickness



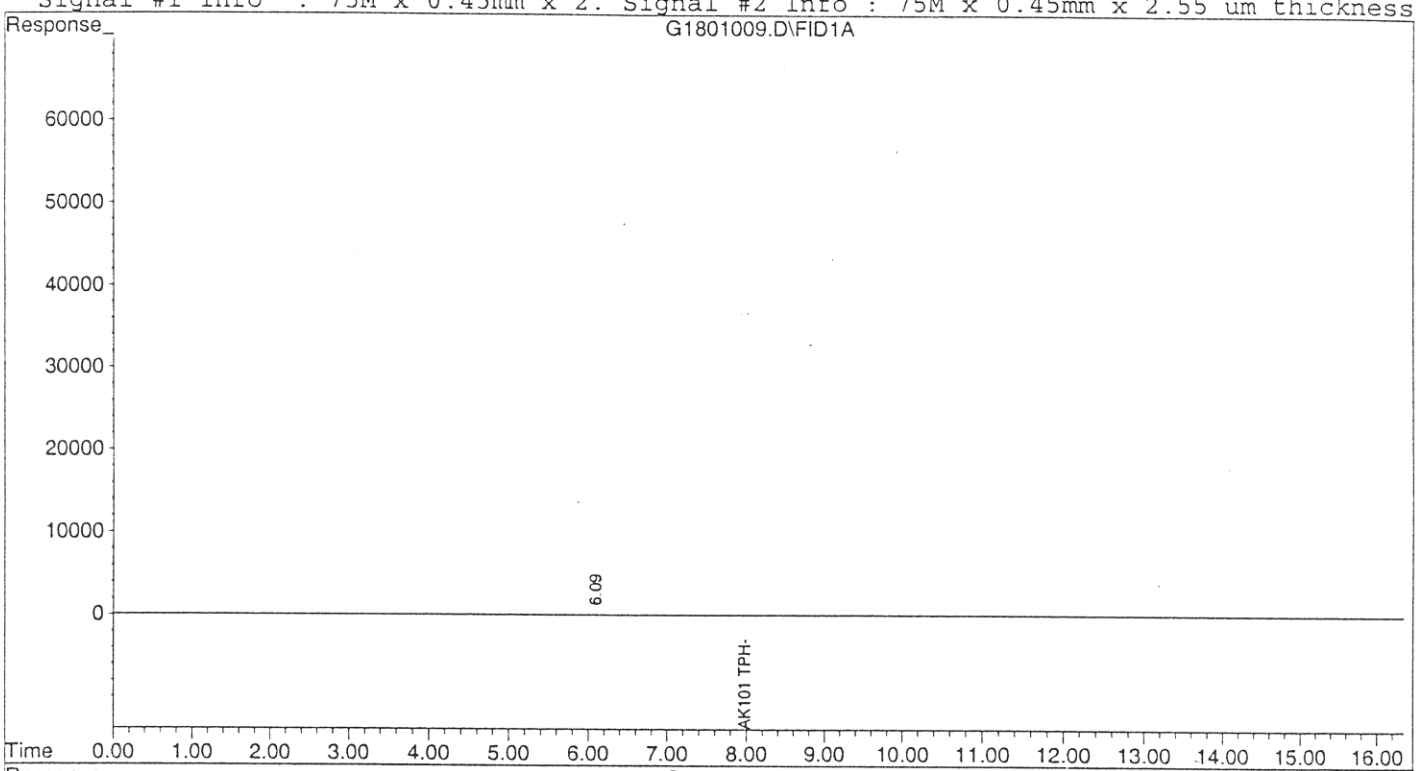


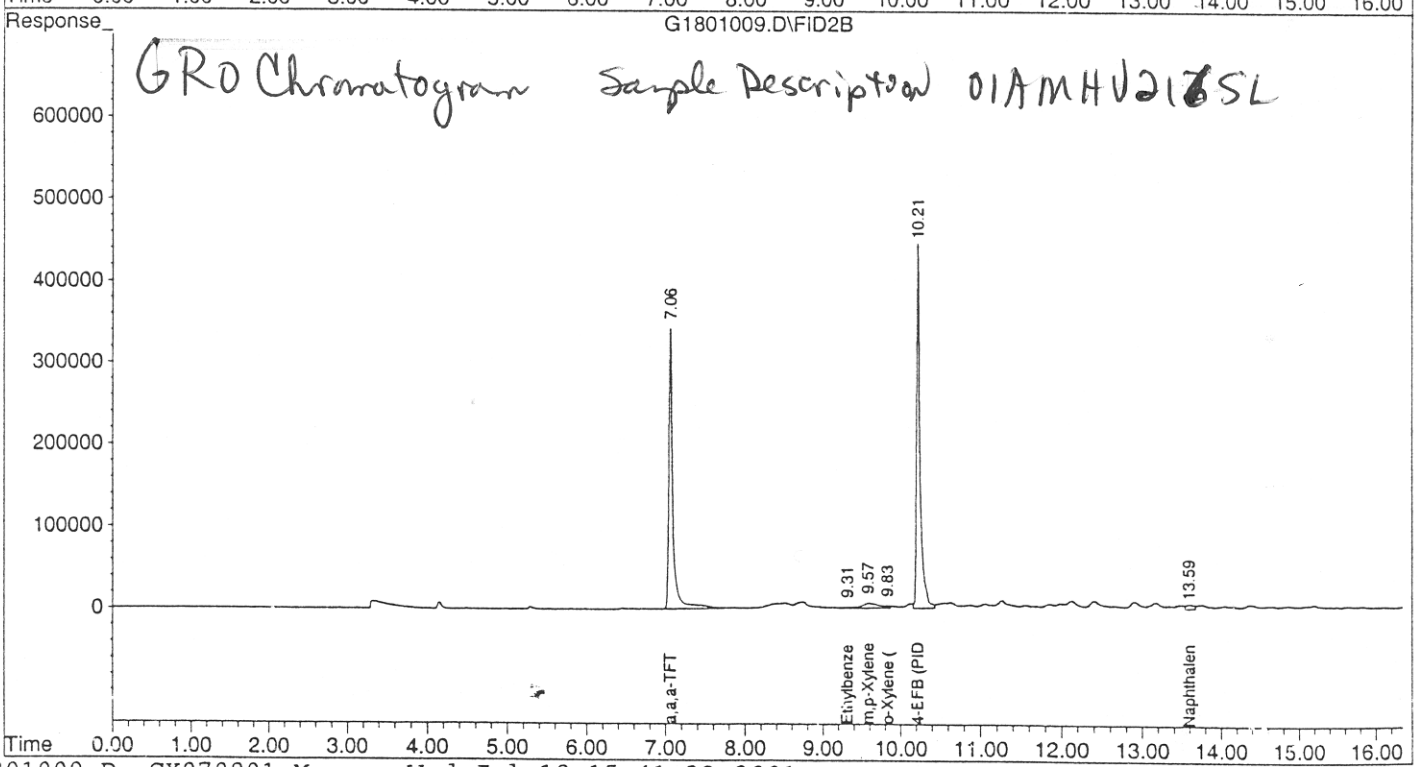
Quantitation Report

Signal #1 : C:\HPCHEM\2\DATA\071801\G1801009.D\FID1A.CH Vial: 9
Signal #2 : C:\HPCHEM\2\DATA\071801\G1801009.D\FID2B.CH
Acq On : 18 Jul 2001 3:24 pm Operator: sw
Sample : M107038-05 x200 (50ul) Inst : PID/FID-M
Misc : Soil Sample Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS.E
Quant Time: Jul 18 15:41 2001 Quant Results File: GX070801.RES

Quant Method : C:\HPCHEM\2\METHODS\GX070801.M (Chemstation Integrator)
Title : TPH-G Method
Last Update : Sat Jul 14 09:45:15 2001
Response via : Multiple Level Calibration
DataAcq Meth : GX070801.M

Volume Inj. : Purge and Trap
Signal #1 Phase : J&W VRX Megabore Signal #2 Phase: J&W VRX Megabore
Signal #1 Info : 75M x 0.45mm x 2. Signal #2 Info : 75M x 0.45mm x 2.55 um thickness



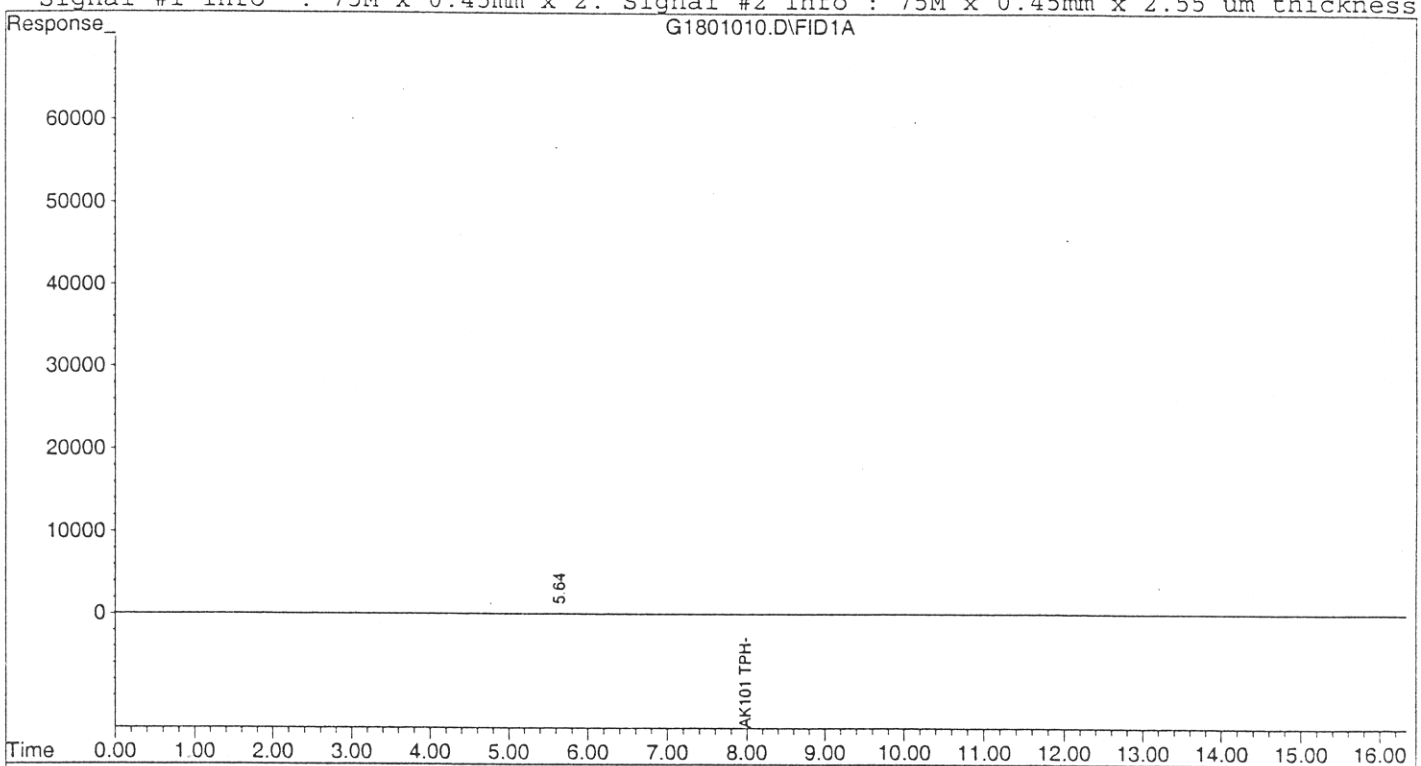


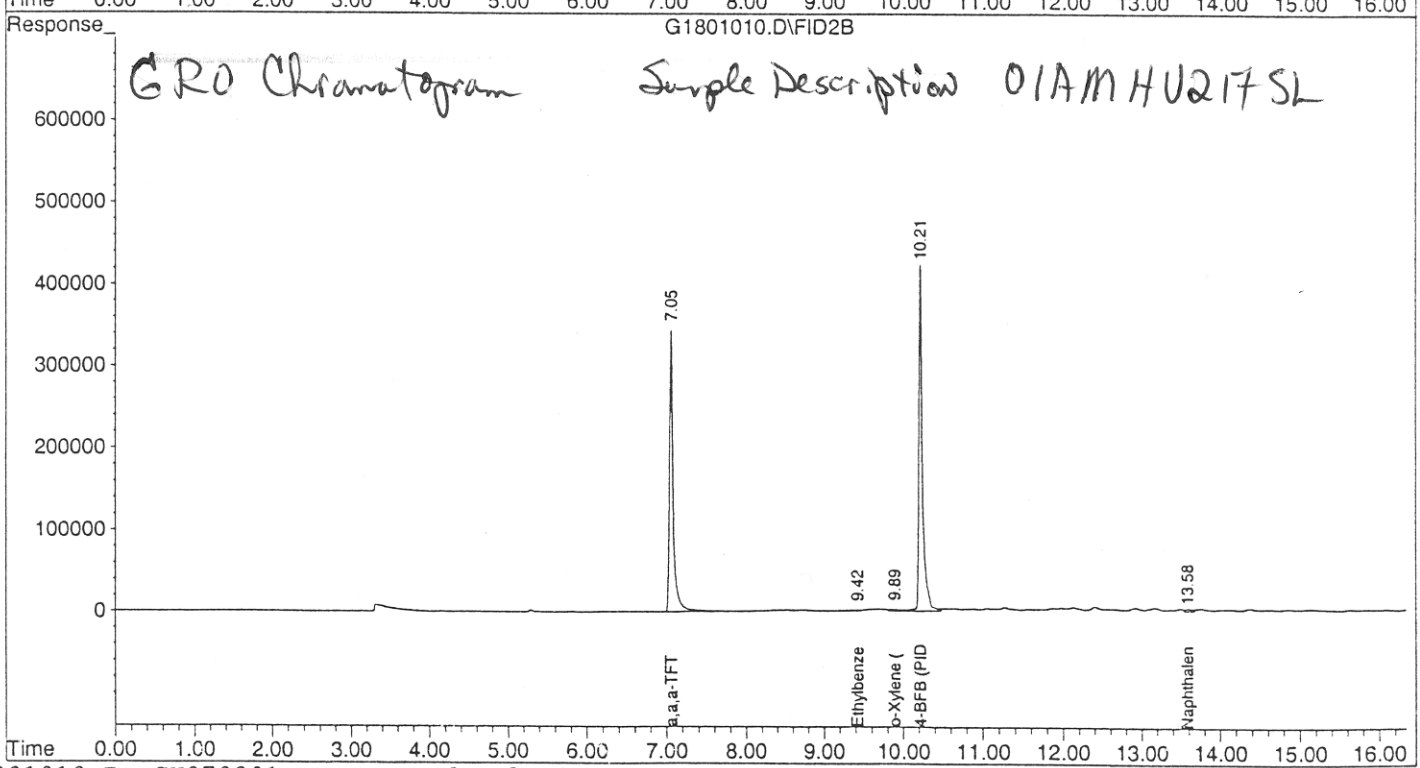
Quantitation Report

Signal #1 : C:\HPCHEM\2\DATA\071801\G1801010.D\FID1A.CH Vial: 10
Signal #2 : C:\HPCHEM\2\DATA\071801\G1801010.D\FID2B.CH
Acq On : 18 Jul 2001 3:58 pm Operator: sw
Sample : M107038-06 x200 (50ul) Inst : PID/FID-M
Misc : Soil Sample Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS.E
Quant Time: Jul 18 16:14 2001 Quant Results File: GX070801.RES

Quant Method : C:\HPCHEM\2\METHODS\GX070801.M (Chemstation Integrator)
Title : TPH-G Method
Last Update : Sat Jul 14 09:45:15 2001
Response via : Multiple Level Calibration
DataAcq Meth : GX070801.M

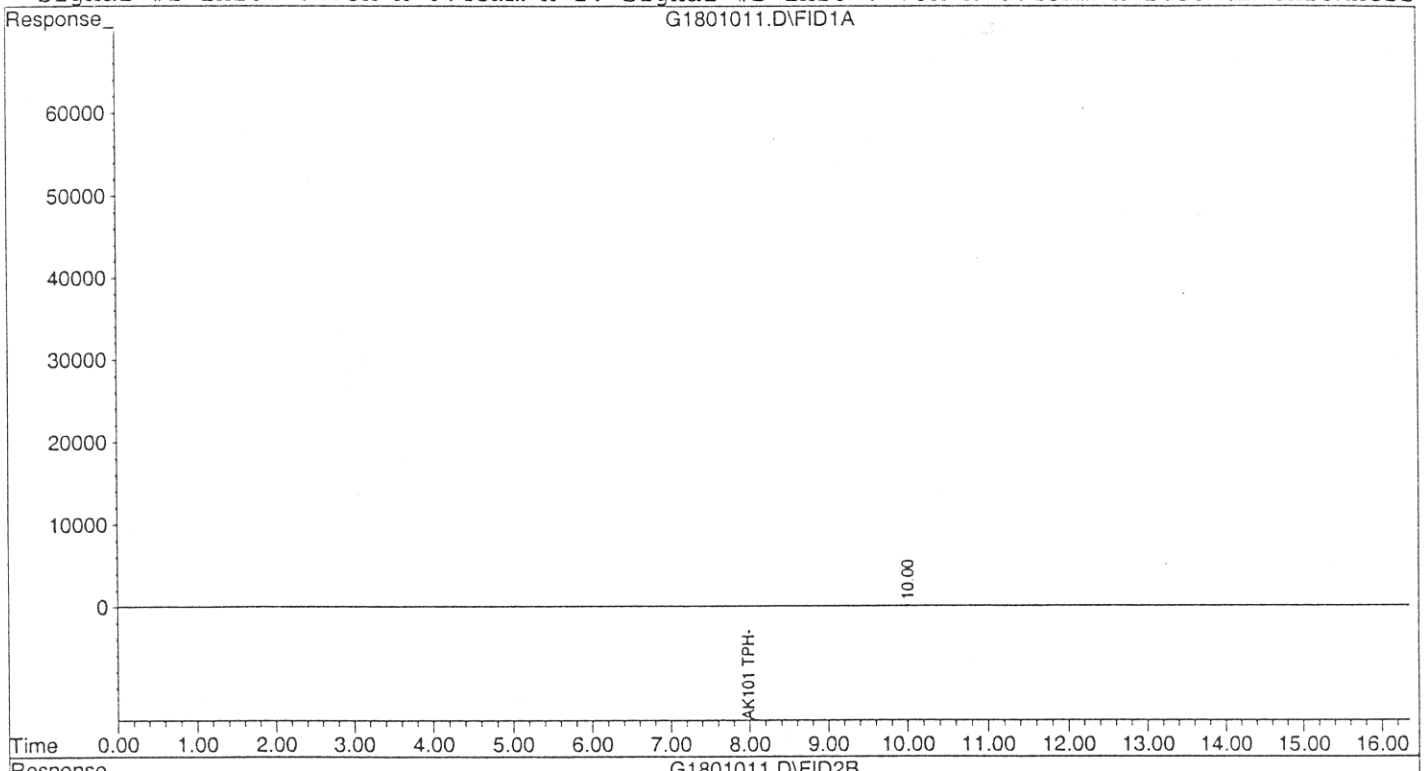
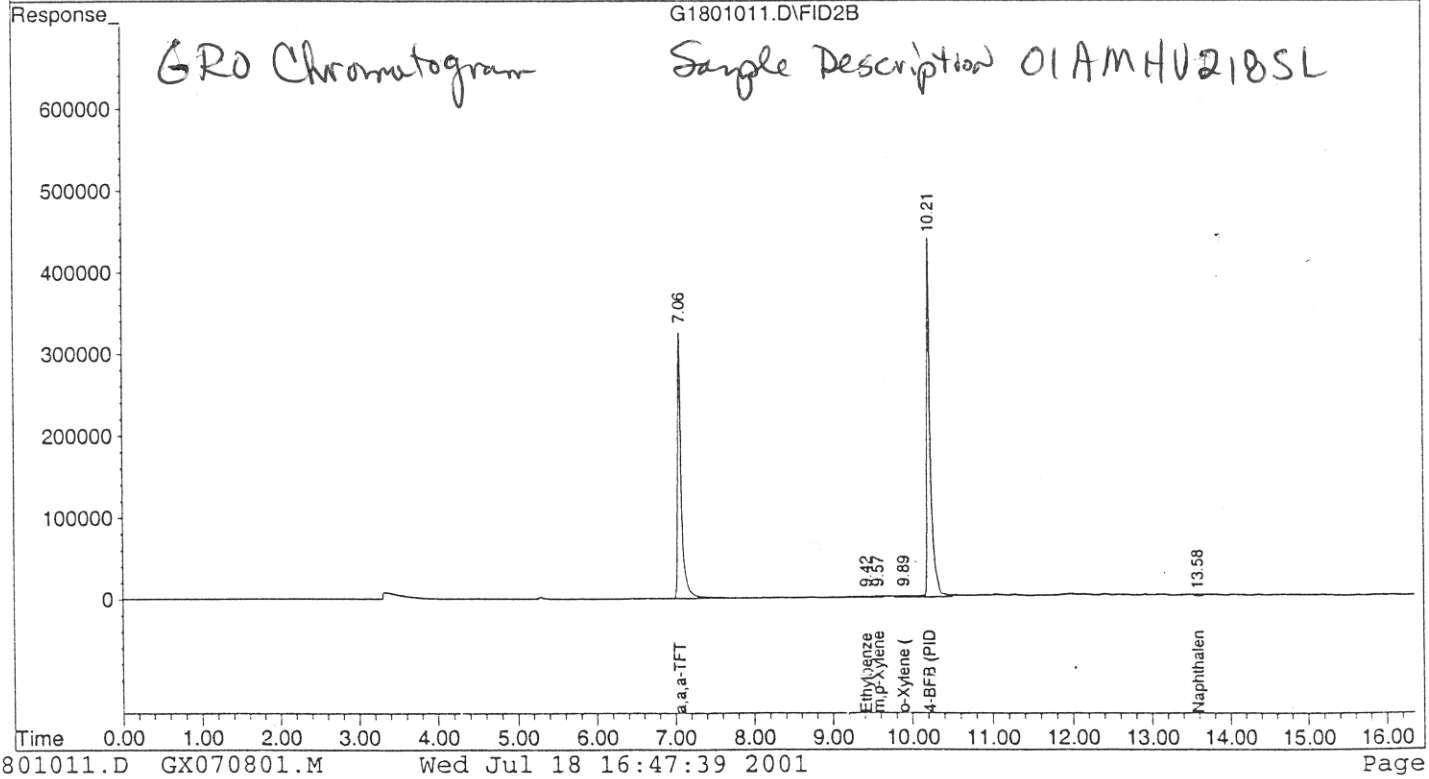
Volume Inj. : Purge and Trap
Signal #1 Phase : J&W VRX Megabore Signal #2 Phase: J&W VRX Megabore
Signal #1 Info : 75M x 0.45mm x 2. Signal #2 Info : 75M x 0.45mm x 2.55 um thickness





Quantitation Report

Signal #1 : C:\HPCHEM\2\DATA\071801\G1801011.D\FID1A.CH Vial: 11
Signal #2 : C:\HPCHEM\2\DATA\071801\G1801011.D\FID2B.CH
Acq On : 18 Jul 2001 4:31 pm Operator: sw
Sample : M107038-07 x200 (50ul) Inst : PID/FID-M
Misc : Soil Sample Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS.E
Quant Time: Jul 18 16:47 2001 Quant Results File: GX070801.RES

Quant Method : C:\HPCHEM\2\METHODS\GX070801.M (Chemstation Integrator)
Title : TPH-G Method
Last Update : Sat Jul 14 09:45:15 2001
Response via : Multiple Level Calibration
DataAcq Meth : GX070801.M

Volume Inj. : Purge and Trap
Signal #1 Phase : J&W VRX Megabore Signal #2 Phase: J&W VRX Megabore
Signal #1 Info : 75M x 0.45mm x 2. Signal #2 Info : 75M x 0.45mm x 2.55 um thickness