NM - 13

INSPECTIONS & DATA

JAMAR, INC. / OIL PROCESSING, INC.

Oil Processing, Inc. is an abandoned oil treating plant that reclaimed petroleum products from July 1979 to February 1986. In December of 1986 Order R-6053 was revoked. In 1987 Jamar, Inc. received Order R-8507 to operate a similar facility at the same location. The OCD currently has a $25,000 surety bond for the Jamar Inc. facility. The Jamar facility is currently not operating.

The facility is located 2.7 miles south of Monument, New Mexico (Section 8, Township 20 South, Range 37 East, NMPM, Lea County NM). Currently the facility has 13 tanks some of which are open top and contain oil, waste water and sediment.

Impact to ground water from this site is currently not known. Depth to ground water is between 20 and 27 feet, chloride is between 796 mg/l and 3650 mg/l, total petroleum hydrocarbon is 5.86 mg/l and total dissolved solids is 2352 mg/l

The closest residences are located 2.5 miles north of the facility in the town of Monument. Use of ground water in the vicinity of the site is for the petroleum industry and livestock watering. There is some irrigation use near the town of Monument.

GENERAL PETROLEUM, INC.

In 1962 an oilfield treating plant facility began operating, in the city limits of Eunice, New Mexico, (SW/4, SW/4 of Section 28, Township 21 South, Range 37 East, NMPM, Lea County, New Mexico). Operation continued into the early 1980's. General Petroleum, Inc. is located above the Ogallala Formation, a source of drinking, irrigation and stock water for surrounding residence and the city of Eunice.

In June of 2001 a naturally occurring radioactive material (NORM) investigation was conducted by the OCD and the Environment Department Radiation Control Bureau. The determination was made that there is no regulated NORM at this facility.

During a preliminary investigation in June 2002, three ground water monitoring wells were drilled through the subsurface to ground water and several boreholes were dug into the subsurface to determine the gross extent of contamination below the site. Impact to ground water from this site has occurred. Depth to ground water is 89 feet below ground surface, chloride in the down-gradient well is 750 mg/l and total dissolved solids is 2500 mg/l. Hydrocarbons have impacted the subsurface to at least 25 feet below the pit and 15 feet below the tanks.

There are residences that border the facility on the north and east and two residences across the county road the road to the west. The people that live next to the facility have expressed concern. Dr. Henning, who operates a medical clinic across the street south of the facility, has expressed concern regarding the facility's potential threat to public heath. The facility does not have adequate fencing.

New Program Initiatives – non-recurring expenditures.

SUMMARY

In 1962 an oilfield treating plant facility began operating, in the city limits of Eunice, New Mexico, (SW/4, SW/4 of Section 28, Township 21 South, Range 37 East, NMPM, Lea County, New Mexico). Operation continued into the early 1980's. The facility is located above the Ogallala Formation, a source of drinking, irrigation and stock water for surrounding residence and the city of Eunice. Groundwater is estimated to be approximately 89 feet below ground surface.

The facility contains: (see photos attached)

1. One 240 ft. by 220 ft. unlined pit containing water, sludge and oil that has infiltrated to approximately 25 feet below ground surface;
2. Two above ground storage tanks containing some fluids and sludge;
3. Eleven former tank locations with contamination to 15 feet below ground surface;
4. Four large piles of tank bottoms, contaminated soil and paraffin/asphalt hardened soil;
5. Many active and inactive buried pipelines crisscrossing the facility; and
6. Surface trash including barrels, buckets, cans, scrap metal, fencing, batteries, electrical boxes and meters.

During a preliminary investigation in June 2002, three ground water monitoring wells were drilled through the subsurface to ground water and several boreholes were dug into the subsurface to determine the gross extent of contamination below the site. Preliminary results from the investigation do not show impact to ground water however the subsurface has been impacted to at least 25 feet below the pit and 15 feet below the tanks.

There are residences that border the facility on the north and east and two residences across the county road the road to the west. The people that live next to the facility have expressed concern. Dr. Henning who operates a medical clinic across the street south of the facility, has expressed concern regarding the facility's potential threat to public heath. The facility does not have adequate fencing. The New Mexico Energy, Minerals and Natural Resources Department, Oil Conservation Division is concerned that if the facility is left in its present condition, fresh water, public health and the environment may be impacted.

PERFORMANCE GOALS

This investigation, cleanup, and restoration project would be protective of ground water, public health and the environment and therefore would advance the New Mexico Energy, Minerals and Natural Resources Department, Oil Conservation Division performance goal of Protection of Healthy Ecosystems. "The purpose of the healthy ecosystem program is to protect ecosystems throughout the state by identifying at-risk areas; preventing additional damage; and restoring damaged areas."

COST

The total cost for this project is estimated to be $2,499,000.
Remove approximately 6000 barrels of fluid from tanks and pit. Dismantle tanks and recycle/dispose of tanks, pipe, drums and trash. Excavate, transport and dispose of an estimated 48,500 cubic yards of contaminated soil/tank bottoms. Collect soil samples for analysis.

Photo 1. MW1, SW of old water well and foundation/pad. Looking Southwest

Photo 2. Looking west along north fence line. Jerry V. Nessmith property & home across the county road.

Photo 3. Looking northwest along fence line at Vickie Brooks's home.

Photo 4. Vickie Brooks's property. Photo taken from the edge of the pond looking north.

Photo 5. Pit area as seen from the edge of Vickie Brooks's property. Looking South

Photo 6. Pit area and two remaining tanks. Looking south. Carl C. and Patsy Coy's home in the upper left.

Photo 7. Approximately ¼ of pit area looking east from atop the berm.

Photo 8. Looking diagonally across the pit area toward the southeast. Carl J. and Patsy Coy's home top center.

Photo 9. Looking diagonally across the pit area toward the southeast. Carl J. and Patsy Coy's home top center.

Photo 10. Texaco pipeline traverses diagonally below the northwest corner of the pit. West fence line is down.

Photo 11. One of two pipeline corridors along the east edge of the facility. Hydrocarbon contaminated soil along the pipeline area

Photo 12. MW2 location east of the pit area and west of the pipeline corridor. Looking north.

Photo 13. . Looking southeast toward Carl J. and Patsy Coy's home. Hydrocarbon tank bottom/soil pile upper right.

Photo 14. Pit area looking northwest showing (R-L) Vickie Brooks, E. Maurice Huhes and Jerry V. Nessmith properties.

Photo 15. Looking southeast from atop the hydrocarbon tank bottom/soil pile. Carl J. and Patsy Coy's home upper left.

Photo 16. Hydrocarbon tank bottom and contaminated soil pile. Looking southeast.

Photo 17. Tank #1 (north tank) with hydrocarbon material that has leaked out of a hole.

Photo 18. Looking north across pit. Vickie Brooks home upper left.

INITIAL PRICE ESTIMATE -
General Petroleum Treating Plant - Eunice, NM

SCOPE OF WORK -

1) Pumping and disposal of sludge/liquid from 1 above ground storage tank
2) Cleaning, dismantling and disposal of tanks
3) Pumping and disposal of sludge/liquid from sludge pit (approx. 1 acres)
4) Excavation, transportation and disposal of 48,500 cu. yds of contaminated soil (>1000 ppm)
5) Collection of 25 soil samples for analysis (to be determined by OCD)
6) Report detailing all on-site activities

LN	QTY	RATE	UNIT	COST	DESCRIPTION
*0002	120	$75.00	Hour	$9,000.00	Senior Scientist
*0003	250	$60.00	Hour	$15,000.00	Project Manager/Certified Scientist
*0004	250	$50.00	Hour	$12,500.00	Staff Scientist
*0005	250	$35.00	Hour	$8,750.00	Field Technician II
*0006		$30.00	Hour	$0.00	Field Technician I
*0010		$30.00	Hour	$0.00	Secretary
*0021		$50.00	Day	$0.00	PID
*0025		$150.00	Day	$0.00	Backhoe 1
*0026		$200.00	Day	$0.00	Backhoe 2
*0027		$300.00	Day	$0.00	Backhoe 3
*0028		$350.00	Day	$0.00	Track hoe 1
*0029		$500.00	Day	$0.00	Track hoe 2
*0031		$1.50	Foot	$0.00	2" blank PVC, !0 ft sections
*0033		$2.80	Foot	$0.00	2" screen, 10 ft sections
*0035		$8.29	Each	$0.00	Filter Pack Sand per 100# sack
*0036		$46.75	Each	$0.00	Bentonite pellets per 50# sack
*0037		$8.50	Each	$0.00	Bentonite Chips per 50# sack
*0038		$50.00	Each	$0.00	8" Manhole (well vault)
*0042	8000	$0.30	Mile	$2,400.00	Personal Vehicle Mileage
*0043	100	$60.00	Each	$6,000.00	Per Diem/Overnight
*0047		$1.00	Mile	$0.00	Mobe/Demobe: Drill Rig (Medium duty)
*0048		$13.00	Foot	$0.00	Hollow-Stem Auger Drilling Services (S-M
*0049		$19.00	Foot	$0.00	Hollow-Stem Auger Drilling Services (L)
*0050		$170.00	Hour	$0.00	Air Rotary Drill Rig
*0051		$12.00	Foot	$0.00	Coring
*0052		$100.00	Day	$0.00	Water Truck -
*0053		$50.00	Day	$0.00	Pick up Truck -
*0054		$50.00	Day	$0.00	Steam cleaner
N/A	40	$75.00	Hour	$3,000.00	Vacuum Truck
N/A	1200	$4.00	Barrel	$4,800.00	Sludge/Liquid Disposal
N/A	48500	$10.00	Yd	$485,000.00	Excavation & Loading of Contaminated S
N/A	48500	$12.00	Yd	$582,000.00	Transportation of Contaminated Soil
N/A	48500	$19.00	Yd	$921,500.00	Disposal of Contaminated Soil
N/A	72750	$4.00	Yd	$291,000.00	Clean Backfill (including transportation)
				$20,000.00	Tank and Piping Disposal

TOTAL $2,360,950.00 (a) + 0.058125 (NMGRT) = **$2,498,180.22**

NOTE: LABORATORY COSTS ARE NOT INCLUDED

BEFORE THE OIL CONSERVATION COMMISSION
OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING
CALLED BY THE OIL CONSERVATION
COMMISSION OF NEW MEXICO FOR
THE PURPOSE OF CONSIDERING:

CASE No. 2599
Order No. R-2290

APPLICATION OF JAMES N. EVANS
AND DALLAS McCASLAND FOR PER-
MISSION TO OPERATE A TREATING
PLANT, LEA COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on July 11, 1962, at Santa Fe, New Mexico, before Daniel S. Nutter, Examiner duly appointed by the Oil Conservation Commission of New Mexico, hereinafter referred to as the "Commission," in accordance with Rule 1214 of the Commission Rules and Regulations.

NOW, on this 25th day of July, 1962, the Commission, a quorum being present, having considered the application, the evidence adduced, and the recommendations of the Examiner, Daniel S. Nutter, and being fully advised in the premises,

FINDS:

(1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.

(2) That the applicants, James N. Evans and Dallas McCasland, seek permission to operate a sediment oil treating plant to be located approximately one mile west of the Town of Eunice, Lea County, New Mexico, on State Road No. 176.

(3) That the applicants, James N. Evans and Dallas McCasland, d/b/a Southwest Reclamation Service, a Partnership, have filed a $10,000 Performance Bond which has been approved by the Commission.

(4) That the operation of sediment oil treating plants such as the one proposed by the applicants is in the best interest of conservation and prevents the waste of oil otherwise unrecoverable.

IT IS THEREFORE ORDERED:

That the applicants, James N. Evans and Dallas McCasland, d/b/a Southwest Reclamation Service, a Partnership, are hereby granted permission to operate a sediment oil treating plant to be located approximately one mile west of the Town of Eunice, Lea County, New Mexico, on State Road No. 176.

PROVIDED HOWEVER, That the continuation of the authorization granted by this order shall be conditioned upon compliance with the laws of the State of New Mexico and the rules and regulations of the New Mexico Oil Conservation Commission.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

EDWIN L. MECHEM, Chairman

E. S. WALKER, Member

A. L. PORTER, Jr., Member & Secretary

S E A L

esr/

BEFORE THE OIL CONSERVATION COMMISSION
OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING
CALLED BY THE OIL CONSERVATION
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STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

EDWIN L. MECHEM, Chairman

E. S. WALKER, Member

A. L. PORTER, Jr., Member & Secretary

S E A L

esr/

Kieling, Martyne

From: Price, Wayne
Sent: Wednesday, June 19, 2002 10:21 AM
To: Kieling, Martyne
Subject: FW: Meeting on June 12

Martyne this is the guy I told you about that may have an application to use the material in the Eunice pit!

-----Original Message-----
From: Reed, Joe [mailto:JReed@arcadis-us.com]
Sent: Thursday, June 13, 2002 12:04 PM
To: Wayne Price (E-mail)
Cc: McConnell, Hank; Robert Patterson (E-mail)
Subject: Meeting on June 12

Hi Wayne:

Just wanted to thank you for the good meeting yesterday on the Chevrontexaco North Eunice project. I think we are well on the way to solutions to the site. We will keep you informed regarding the progress of the additional work. Let us know if you have any questions. Thanks again. Joe

A. Joseph Reed
Associate Vice President/Senior Project Advisor
ARCADIS
1030 Andrews Highway
Suite 120
Midland, Texas 79701
Office: (915) 699-1381
Fax: (915) 699-1978
email: jreed@arcadis-us.com

oilfield cleanup legislation . . . June / #s For July Mid. For Interim Committee.

Skip tracer

STATE OF NEW MEXICO
ENERGY MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION

MEMORANDUM OF MEETING OR CONVERSATION

✓ Telephone ____ Personal Time ____ Date 5-1-02

Originating Party: Gary Wink

Other Parties: Marlyne Kieling

370-7106 Payer

Subject: General Petroleum Treating Plant in Eunice

Discussion: Troy Frank Last Heard of in Tyler Texas living in Trailor of Back yard of In Laws ....

Last Name Aarant } This was a Dead end
Phone # 903-593-3237 } Not correct Number Does not know Frank

Brother.. Clayton Frank 1888-673-[redacted] 9863
SunAntino - Odessa Pump Employer.

7:00

Failure to Pay taxes. . Tresure office to get....
Tax Roll. From County office? Possibly Get Name

Conclusions or Agreements

3 years Delinquent Taxs
9.39 Acres SW 1/4 Sec 28, T 21S, R 37E
Inside City limit....

Distribution Address.....

Signed Marlyne Kieling

2510 N. Del Paso
Hobbs, NM [redacted] 88240 mobil. → Pay to Jimmi.
4 years Delinquent.

STATE OF NEW MEXICO
ENERGY MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION

MEMORANDUM OF MEETING OR CONVERSATION

✓ Telephone ____ Personal Time 5-15-02 Date 4:45 pm

Originating Party
Marlyn Kisling

Other Parties
Fay
County Assessors office
505-396 8527

Subject 3 years delinquent on Property taxs
9.39 acres SW 1/4 Section 18, T21S, R37E
Inside City limits of Eunice
wont Be turned over to the State Untill it is 4 years
Delinquent.

Discussion * Address on Record is 2510 N. Del Paso
Hobbs, NM 88240

Usually this ^ Tax would be payed to Jimmie Cooper and Jimmie would Pay the taxes.

Real Property Agreement Signed on April 29, 1999

Conclusions or Agreements

Distribution David Brooks.
File

Signed Marlyn Kisling

PINNACLE LABORATORIES

2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

Bill To: N.M. Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Client #: 810-134

Date	Invoice
7/31'02	83730

Project Name: OCD Eunice

Original
BALANCE DUE: 1,683.00

PO Number	Terms	Project
	Net 30	PIN ALB-810

Quantity	Description	Rate	Amount
3	Item 004 Method 8021 (BTEX) Aqueous	40.00	120.00
3	Item 013 Method 8270 SIMS (PAH's) Aqueous	135.00	405.00
3	Item 049 Metals by ICAP Method 6010: Al, Sb As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Si, Ag, Na, Tl, Zn	200.00	600.00
3	Item 051 F, Ca, K, Mg, Na, Bicarb., Carb., Cl, SO4, TDS, Cation/Anion Balance, Conductivity, pH	160.00	480.00
3	Item 054 Nitrate/Nitrite Only	26.00	78.00

Remit to: Pinnacle Laboratories, Inc.
2709-D Pan American Freeway NE
Albuquerque, NM 87107

ok to pay mjh
8-19-02

Accession #: 207050 P.A. #: 20-521-07-02497
Authorized By: Martyne Kieling

TOTAL: 1,683.00

PINNACLE LABORATORIES

2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

CLIENT	: RESPEC	PINNACLE ID	: 207050
PROJECT #	: (NONE)	DATE RECEIVED	: 07/15/02
PROJECT NAME	: OCD EUNICE	REPORT DATE	: 08/07/02

PINNACLE ID #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
207050 - 01	MW-1	AQUEOUS	07/09/02
207050 - 02	MW-2	AQUEOUS	07/09/02
207050 - 03	MW-3	AQUEOUS	07/09/02
207050 - 04	TRIP BLANK	AQUEOUS	06/19/02

PINNACLE LABORATORIES

2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

Pinnacle Lab ID number **207050**
August 07, 2002

RESPEC
4775 INDIAN SCHOOL RD. NE STE. 300
ALBUQUERQUE, NM 87110

Project Name OCD EUNICE
Project Number (NONE)

Attention: JOHN BUNCH

On 07/15/02 Pinnacle Laboratories, Inc., (ADHS License No. AZ0592 pending), received a request to analyze **aqueous** samples. The samples were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

EPA method 8021 analyses were performed by Pinnacle Laboratories, Inc. Albuquerque, NM.

EPA method 8270 SIMS analyses were performed by Environmental Services Laboratory, Inc. Portland, OR.

All other analyses were performed by Severn Trent Laboratories, Inc. Pensacola, FL.

If you have any questions or comments, please do not hesitate to contact us at (505)344-3777.

H. Mitchell Rubenstein, Ph. D.
General Manager

MR: jt

Enclosure

PINNACLE LABORATORIES

2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8021 MODIFIED
CLIENT : RESPEC
PROJECT # : (NONE)
PROJECT NAME : OCD EUNICE

PINNACLE I.D.: 207050

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	MW-1	AQUEOUS	07/09/02	NA	07/15/02	1
02	MW-2	AQUEOUS	07/09/02	NA	07/15/02	1
03	MW-3	AQUEOUS	07/09/02	NA	07/15/02	1

PARAMETER	DET. LIMIT	UNITS	MW-1	MW-2	MW-3
BENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
TOLUENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
ETHYLBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
TOTAL XYLENES	1.0	UG/L	< 1.0	< 1.0	< 1.0
SURROGATE:					
BROMOFLUOROBENZENE (%)			100	99	100
SURROGATE LIMITS	(80 - 120)				

CHEMIST NOTES:
N/A

PINNACLE LABORATORIES

2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8021 MODIFIED
CLIENT : RESPEC
PROJECT # : (NONE)
PROJECT NAME : OCD EUNICE

PINNACLE I.D.: 207050

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED		DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
04	TRIP BLANK	AQUEOUS	06/19/02	H	NA	07/15/02	1

PARAMETER	DET. LIMIT	UNITS	TRIP BLANK
BENZENE	0.5	UG/L	< 0.5
TOLUENE	0.5	UG/L	< 0.5
ETHYLBENZENE	0.5	UG/L	< 0.5
TOTAL XYLENES	1.0	UG/L	< 1.0

SURROGATE:
BROMOFLUOROBENZENE (%) 96
SURROGATE LIMITS (80 - 120)

CHEMIST NOTES:
H = Trip Blank was received and analyzed past hold time.

PINNACLE LABORATORIES

2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

GAS CHROMATOGRAPHY RESULTS
REAGENT BLANK

TEST	: EPA 8021 MODIFIED	PINNACLE I.D.	: 207050
BLANK I. D.	: 071502	DATE EXTRACTED	: N/A
CLIENT	: RESPEC	DATE ANALYZED	: 07/15/02
PROJECT #	: (NONE)	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: OCD EUNICE		

PARAMETER	UNITS	
BENZENE	UG/L	<0.5
TOLUENE	UG/L	<0.5
ETHYLBENZENE	UG/L	<0.5
TOTAL XYLENES	UG/L	<1.0
SURROGATE:		
BROMOFLUOROBENZENE (%)		100
SURROGATE LIMITS:	(80 - 120)	

CHEMIST NOTES:
N/A

PINNACLE LABORATORIES

2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

GAS CHROMATOGRAPHY QUALITY CONTROL
LCS/LCSD

TEST	: EPA 8021 MODIFIED	PINNACLE I.D.	: 207050
BATCH #	: 071502	DATE EXTRACTED	: N/A
CLIENT	: RESPEC	DATE ANALYZED	: 07/15/02
PROJECT #	: (NONE)	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: OCD EUNICE	UNITS	: UG/L

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
BENZENE	<0.5	20.0	19.8	99	19.8	99	0	(80 - 120)	20
TOLUENE	<0.5	20.0	21.1	106	21.1	106	0	(80 - 120)	20
ETHYLBENZENE	<0.5	20.0	22.1	111	22.1	111	0	(80 - 120)	20
TOTAL XYLENES	<1.0	60.0	66.7	111	66.7	111	0	(80 - 120)	20

CHEMIST NOTES:
N/A

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative Percent Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

PINNACLE LABORATORIES

2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

GAS CHROMATOGRAPHY QUALITY CONTROL
MS/MSD

TEST	: EPA 8021 MODIFIED	PINNACLE I.D.	: 207050
MSMSD #	: 207050-01	DATE EXTRACTED	: N/A
CLIENT	: RESPEC	DATE ANALYZED	: 07/15/02
PROJECT #	: (NONE)	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: OCD EUNICE	UNITS	: UG/L

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
BENZENE	<0.5	20.0	19.8	99	19.4	97	2	(80 - 120)	20
TOLUENE	<0.5	20.0	21.2	106	20.8	104	2	(80 - 120)	20
ETHYLBENZENE	<0.5	20.0	22.3	112	21.8	109	2	(80 - 120)	20
TOTAL XYLENES	<1.0	60.0	67.7	113	66.6	111	2	(80 - 120)	20

CHEMIST NOTES:
N/A

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative Percent Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

STL Pensacola

LOG NO: C2-07319
Received: 16 JUL 02
Reported: 24 JUL 02

Ms. Jacinta Tenorio
Pinnacle Laboratories
2709-D Pan American Freeway Northeast
Albuquerque, NM 87107

Project: 207050
Sampled By: Client
Code: 134620724

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
07319-1	MW-1/207050-01	07-09-02/14:45
07319-2	MW-2/207050-02	07-09-02/15:15
07319-3	MW-3/207050-03	07-09-02/15:45

PARAMETER	07319-1	07319-2	07319-3
Alkalinity Series (2320B)			
Alkalinity (to pH 4.5) as CaCO3, mg/l	480	370	520
PH, mg/l	7.4	7.3	7.6
Dilution Factor	1	1	1
Analysis Date	07.19.02	07.19.02	07.19.02
Batch ID	AEW034	AEW034	AEW034
Analyst	ST	ST	ST
CO2 and Forms of Alkalinity (4500D)			
Bicarbonate (2320/4500), mg/l	480	370	520
Carbon Dioxide, mg/l	38	37	26
Carbonate (2320/4500), mg/l	1.0	1.0	2.0
Hydroxide, mg/l	<1.0	<1.0	<1.0
Analysis Date	07.19.02	07.19.02	07.19.02
Analyst	WG	WG	WG
Nitrate-Nitrite, Nitrogen (353.2)			
Nitrate + Nitrite-N, mg/l	1.6	0.73	2.7
Nitrate-N, mg/l	1.4	0.53	2.7
Dilution Factor	1	1	1
Analysis Date	07.18.02	07.18.02	07.18.02
Batch ID	N3W37A	N3W37A	N3W37A
Analyst	CR	CR	CR

STL Pensacola

LOG NO: C2-07319
Received: 16 JUL 02
Reported: 24 JUL 02

Ms. Jacinta Tenorio
Pinnacle Laboratories
2709-D Pan American Freeway Northeast
Albuquerque, NM 87107

Project: 207050
Sampled By: Client
Code: 134620724

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
07319-1	MW-1/207050-01	07-09-02/14:45
07319-2	MW-2/207050-02	07-09-02/15:15
07319-3	MW-3/207050-03	07-09-02/15:45

PARAMETER	07319-1	07319-2	07319-3
Nitrite-N (354.1), mg/l	0.25	0.20	<0.10
Dilution Factor	1	1	1
Analysis Date	07.16.02	07.16.02	07.16.02
Batch ID	N2W133	N2W133	N2W133
Analyst	CR	CR	CR
Chloride (4500E), mg/l	560	750	92
Dilution Factor	20	20	1
Analysis Date	07.17.02	07.17.02	07.17.02
Batch ID	CKW035B	CKW035B	CKW035B
Analyst	CR	CR	CR
Total Dissolved Solids (160.1), mg/l	1600	2500	600
Dilution Factor	1	1	1
Analysis Date	07.18.02	07.18.02	07.18.02
Batch ID	TDW054	TDW054	TDW054
Analyst	ST	ST	ST
Fluoride (340.2), mg/l	1.6	2.1	3.0
Dilution Factor	1	2	2
Analysis Date	07.18.02	07.18.02	07.18.02
Batch ID	FLW029	FLW029	FLW029
Analyst	ST	ST	ST

SEVERN TRENT SERVICES

STL Pensacola
LOG NO: C2-07319
Received: 16 JUL 02
Reported: 24 JUL 02

Ms. Jacinta Tenorio
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2709-D Pan American Freeway Northeast
Albuquerque, NM 87107

Project: 207050
Sampled By: Client
Code: 134620724

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
07319-1	MW-1/207050-01	07-09-02/14:45
07319-2	MW-2/207050-02	07-09-02/15:15
07319-3	MW-3/207050-03	07-09-02/15:45

PARAMETER	07319-1	07319-2	07319-3
pH (9040B), units	6.8	6.6	7.1
Dilution Factor	1	1	1
Analysis Date	07.16.02	07.16.02	07.16.02
Batch ID	PHX110	PHX110	PHX110
Analyst	CR	CR	CR
Specific Conductance (120.1), umhos/cm	2200	3200	920
Dilution Factor	1	1	1
Analysis Date	07.19.02	07.19.02	07.19.02
Batch ID	CDW018	CDW018	CDW018
Analyst	ST	ST	ST
Sulfate as SO4 (375.4), mg/l	110	360	84
Dilution Factor	5	12.5	5
Analysis Date	07.18.02	07.18.02	07.18.02
Batch ID	SEW056	SEW056	SEW056
Analyst	RB	RB	RB

SEVERN TRENT SERVICES

STL Pensacola

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Pinnacle Laboratories
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Albuquerque, NM 87107

Project: 207050
Sampled By: Client
Code: 134620724

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
07319-1	MW-1/207050-01	07-09-02/14:45
07319-2	MW-2/207050-02	07-09-02/15:15
07319-3	MW-3/207050-03	07-09-02/15:45

PARAMETER	07319-1	07319-2	07319-3
Metals (6010B)			
Aluminum, mg/l	1.5	1.4	37
Antimony, mg/l	<0.050	<0.050	<0.050
Arsenic, mg/l	<0.0050	0.0050	0.024
Barium, mg/l	0.23	0.17	0.23
Beryllium, mg/l	<0.0030	<0.0030	<0.0030
Boron, mg/l	0.29	0.26	0.24
Cadmium, mg/l	<0.0050	<0.0050	<0.0050
Calcium, mg/l	210	340	270
Chromium, mg/l	<0.0050	<0.0050	0.038
Cobalt, mg/l	<0.010	<0.010	<0.010
Copper, mg/l	<0.010	<0.010	0.017
Iron, mg/l	1.3	1.2	32
Lead, mg/l	<0.0050	<0.0050	0.013
Magnesium, mg/l	80	110	40
Manganese, mg/l	0.54	0.59	0.57
Molybdenum, mg/l	<0.010	<0.010	0.019
Nickel, mg/l	<0.0050	<0.0050	0.020
Potassium, mg/l	15	17	19
Selenium, mg/l	<0.010	<0.010	<0.010
Silver, mg/l	<0.0050	<0.0050	<0.0050
Sodium, mg/l	160	180	100
Thallium, mg/l	<0.010	<0.010	<0.010
Zinc, mg/l	0.065	0.043	0.29

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Project: 207050
Sampled By: Client
Code: 134620724

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
07319-1	MW-1/207050-01	07-09-02/14:45
07319-2	MW-2/207050-02	07-09-02/15:15
07319-3	MW-3/207050-03	07-09-02/15:45

PARAMETER	07319-1	07319-2	07319-3
Dilution Factor	1	1	1
Prep Date	07.18.02	07.18.02	07.18.02
Analysis Date	07.18.02	07.18.02	07.18.02
Batch ID	PW294	PW294	PW294
Prep Method	3010A	3010A	3010A
Analyst	GSP	GSP	GSP
Silicon (6010), mg/l	32	34	74
Dilution Factor	1	1	10
Prep Date	07.18.02	07.18.02	07.18.02
Analysis Date	07.23.02	07.23.02	07.23.02
Batch ID	PW294	PW294	PW294
Prep Method	3010A	3010A	3010A
Analyst	GSP	GSP	GSP
Quantitation Factor	1	1	10

STL Pensacola

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Albuquerque, NM 87107

Project: 207050
Sampled By: Client
Code: 134620724

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
07319-4	Method Blank	
07319-5	Lab Control Standard % Recovery	
07319-6	Matrix Spike % Recovery	
07319-7	Matrix Spike Duplicate % Recovery	

PARAMETER	07319-4	07319-5	07319-6	07319-7
Alkalinity Series (2320B)				
Alkalinity (to pH 4.5) as CaCO3, mg/l	<1.0	99 %	112 %	112 %
Dilution Factor	1	---	---	---
Analysis Date	07.19.02	---	---	---
Batch ID	AEW034	AEW034	AEW034	AEW034
Analyst	ST	---	---	---
CO2 and Forms of Alkalinity (4500D)				
Bicarbonate (2320/4500), mg/l	N/A	N/A	N/A	N/A
Nitrate-Nitrite, Nitrogen (353.2)				
Nitrate + Nitrite-N, mg/l	<0.10	101 %	89 %	89 %
Dilution Factor	1	---	---	---
Analysis Date	07.18.02	---	---	---
Batch ID	N3W37A	N3W37A	N3W37A	N3W37A
Analyst	CR	---	---	---
Nitrite-N (354.1), mg/l	<0.10	100 %	76 %	78 %
Dilution Factor	1	---	---	---
Analysis Date	07.16.02	---	---	---
Batch ID	N2W133	N2W133	N2W133	N2W133
Analyst	CR	---	---	---

SEVERN TRENT SERVICES

STL Pensacola
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Albuquerque, NM 87107

Project: 207050
Sampled By: Client
Code: 134620724

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
07319-4	Method Blank	
07319-5	Lab Control Standard % Recovery	
07319-6	Matrix Spike % Recovery	
07319-7	Matrix Spike Duplicate % Recovery	

PARAMETER	07319-4	07319-5	07319-6	07319-7
Chloride (4500E), mg/l	<2.0	102 %	113 %	109 %
Dilution Factor	1	---	---	---
Analysis Date	07.17.02	---	---	---
Batch ID	CKW035B	CKW035B	CKW035B	CKW035B
Analyst	CR	---	---	---
Total Dissolved Solids (160.1), mg/l	<5.0	91 %	N/A	N/A
Dilution Factor	1	---	---	---
Analysis Date	07.18.02	---	---	---
Batch ID	TDW054	TDW054	---	---
Analyst	ST	---	---	---
Fluoride (340.2), mg/l	<0.20	102 %	106 %	104 %
Dilution Factor	1	---	---	---
Analysis Date	07.18.02	---	---	---
Batch ID	FLW029	FLW029	FLW029	FLW029
Analyst	ST	---	---	---
pH (9040B), units	N/A	N/A	N/A	N/A
Specific Conductance (120.1), umhos/cm	<1.0	99 %	N/A	N/A
Dilution Factor	1	---	---	---
Analysis Date	07.19.02	---	---	---
Batch ID	CDW018	CDW018	---	---
Analyst	ST	---	---	---

STL Pensacola

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Project: 207050
Sampled By: Client
Code: 134620724

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
07319-4	Method Blank	
07319-5	Lab Control Standard % Recovery	
07319-6	Matrix Spike % Recovery	
07319-7	Matrix Spike Duplicate % Recovery	

PARAMETER	07319-4	07319-5	07319-6	07319-7
Sulfate as SO4 (375.4), mg/l	<5.0	102 %	107 %	94 %
Dilution Factor	1	---	---	---
Analysis Date	07.18.02	---	---	---
Batch ID	SEW056	SEW056	SEW056	SEW056
Analyst	RB	---	---	---

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Project: 207050
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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
07319-4	Method Blank	
07319-5	Lab Control Standard % Recovery	
07319-6	Matrix Spike % Recovery	
07319-7	Matrix Spike Duplicate % Recovery	

PARAMETER	07319-4	07319-5	07319-6	07319-7
Metals (6010B)				
Aluminum, mg/l	<0.10	102 %	104 %	105 %
Antimony, mg/l	<0.050	102 %	102 %	102 %
Arsenic, mg/l	<0.0050	100 %	101 %	103 %
Barium, mg/l	<0.010	105 %	103 %	105 %
Beryllium, mg/l	<0.0030	102 %	102 %	104 %
Boron, mg/l	<0.10	99 %	107 %	109 %
Cadmium, mg/l	<0.0050	102 %	100 %	101 %
Calcium, mg/l	<0.50	104 %	85 %	115 %
Chromium, mg/l	<0.0050	104 %	103 %	105 %
Cobalt, mg/l	<0.010	103 %	101 %	103 %
Copper, mg/l	<0.010	105 %	105 %	107 %
Iron, mg/l	<0.10	104 %	102 %	105 %
Lead, mg/l	<0.0050	103 %	101 %	103 %
Magnesium, mg/l	<0.50	102 %	100 %	111 %
Manganese, mg/l	<0.010	104 %	102 %	104 %
Molybdenum, mg/l	<0.010	105 %	104 %	105 %
Nickel, mg/l	<0.0050	103 %	101 %	102 %
Potassium, mg/l	<1.0	99 %	116 %	118 %
Selenium, mg/l	<0.010	92 %	93 %	94 %
Silver, mg/l	<0.0050	103 %	103 %	102 %
Sodium, mg/l	<1.0	98 %	116 %	134 %
Thallium, mg/l	<0.010	100 %	100 %	102 %

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Project: 207050
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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
07319-4	Method Blank	
07319-5	Lab Control Standard % Recovery	
07319-6	Matrix Spike % Recovery	
07319-7	Matrix Spike Duplicate % Recovery	

PARAMETER	07319-4	07319-5	07319-6	07319-7
Zinc, mg/l	<0.020	102 %	99 %	101 %
Dilution Factor	1	1	1	1
Prep Date	07.18.02	07.18.02	07.18.02	07.18.02
Analysis Date	07.18.02	07.18.02	07.18.02	07.18.02
Batch ID	PW294	PW294	PW294	PW294
Prep Method	3010A	3010A	3010A	3010A
Analyst	GSP	GSP	GSP	GSP
Silicon (6010), mg/l	<0.50	100 %	92 %	97 %
Dilution Factor	1	---	---	---
Prep Date	07.18.02	---	---	---
Analysis Date	07.23.02	---	---	---
Batch ID	PW294	PW294	PW294	PW294
Prep Method	3010A	---	---	---
Analyst	GSP	---	---	---
Quantitation Factor	1	---	---	---

These test results meet all the requirements of NELAC. All questions regarding this test report should be directed to the STL Project Manager who signed this test report.
Data from any samples that do not meet client, federal, or state sample acceptance criteria (collection, preservation, or holding time) will be flagged, or noted on a corrective action form or case narrative, or addressed on the Project Sample Inspection Form (PSIF).
A statement of the estimated uncertainty of the test result is available upon request.

Lance Larson, Project Manager

Cation-Anion Balance Worksheet

Accession Number: 207317-1

Anions	Result (mg/l)	Factor	Total (me/l)
Alkalinity			
Chloride	560	0.02821	15.79760
Fluoride	1.6	0.05264	0.08422
Nitrate as N	1.6	0.01613	0.02581
Sulfate	110	0.02082	2.29020
Carbonate	1	0.03333	0.03333
Bi-Carbonate	480	0.01639	7.86720
	Total Anions =		**26.09836**

Cations	Result (mg/l)	Factor	Total (me/l)
Calcium	210	0.04990	10.47900
Potassium	15	0.02558	0.38370
Magnesium	80	0.08229	6.58320
Sodium	160	0.04350	6.96000
Copper	0	0.03147	0.00000
Iron	1.3	0.05372	0.06984
Manganese	0.54	0.03640	0.01966
Zinc	0.06	0.03059	0.00184
	Total Cations =		**24.49723**

Anion/Cation Balance (% difference) =	3.2%		
Total Anions+Cations =	1140	mg/l	(calculated)
Total Dissolved Solids =	310	mg/l	(measured)
TDS/ion sum ratio =	0.27		
Electrical Cond =	450	umh/cm	(measured)
TDS/EC ratio =	0.689		

Cation-Anion Balance Worksheet

Accession Number: 207317-1

Anions	Result (mg/l)	Factor	Total (me/l)
Alkalinity			
Chloride	750	0.02821	21.15750
Fluoride	2.1	0.05264	0.11054
Nitrate as N	0.53	0.01613	0.00855
Sulfate	360	0.02082	7.49520
Carbonate	1	0.03333	0.03333
Bi-Carbonate	370	0.01639	6.06430
	Total Anions =		**34.86942**

Cations	Result (mg/l)	Factor	Total (me/l)
Calcium	340	0.04990	16.96600
Potassium	17	0.02558	0.43486
Magnesium	110	0.08229	9.05190
Sodium	180	0.04350	7.83000
Copper	0	0.03147	0.00000
Iron	1.2	0.05372	0.06446
Manganese	0.59	0.03640	0.02148
Zinc	0.04	0.03059	0.00122
	Total Cations =		**34.36992**

Anion/Cation Balance (% difference) =	0.7%		
Total Anions+Cations =	1761	mg/l	(calculated)
Total Dissolved Solids =	310	mg/l	(measured)
TDS/ion sum ratio =	0.18		
Electrical Cond =	450	umh/cm	(measured)
TDS/EC ratio =	0.689		

Cation-Anion Balance Worksheet

Accession Number: 207317-1

Anions	Result (mg/l)	Factor	Total (me/l)
Alkalinity			
Chloride	92	0.02821	2.59532
Fluoride	3	0.05264	0.15792
Nitrate as N	2.7	0.01613	0.04355
Sulfate	84	0.02082	1.74888
Carbonate	2	0.03333	0.06666
Bi-Carbonate	520	0.01639	8.52280
	Total Anions =		**13.13513**

Cations	Result (mg/l)	Factor	Total (me/l)
Calcium	270	0.04990	13.47300
Potassium	19	0.02558	0.48602
Magnesium	40	0.08229	3.29160
Sodium	100	0.04350	4.35000
Copper	0.017	0.03147	0.00053
Iron	32	0.05372	1.71904
Manganese	0.57	0.03640	0.02075
Zinc	0.29	0.03059	0.00887
	Total Cations =		**23.34981**

Anion/Cation Balance (% difference) =	28.0%		
Total Anions+Cations =	644	mg/l	(calculated)
Total Dissolved Solids =	310	mg/l	(measured)
TDS/ion sum ratio =	0.48		
Electrical Cond =	450	umh/cm	(measured)
TDS/EC ratio =	0.689		

SEVERN TRENT SERVICES

STL Pensacola Data Qualifiers for Final Report

STL Pensacola

B	The analyte was detected in the associated method blank and in the client's sample.
C	The compound has been quantitated against a one point calibration.
D	Recovery is not calculable due to dilution.
E	Estimated value because the analyte concentration exceeds the upper calibration range of the instrument or method.
I	Estimated value because the analyte concentration is less than the lower calibration range of the instrument but is at the method detection limit or greater than the method detection limit.
H	Sample and/or duplicate is below 5 X (times) the STL Reporting Limit and the absolute difference between the results exceeds the STL Reporting Limit.
J1	A sample surrogate or an LCS target compound recovered above the upper control limit (UCL). Compounds qualified with a J1 may be biased high.
J2	A sample surrogate or an LCS target compound recovered outside the lower control limit (LCL). Compounds qualified with a J2 may be biased low.
M1	A matrix effect was present.
M2	The MS and/or MSD %R or RPD was outside upper or lower control limits; not necessarily due to matrix effect.
N/C	Not Calculable; Sample spiked is > 4X spike concentration (may also use this flag in place of negative numbers).
R1	Internal standard area exceeds the acceptance criteria
R2	Calibration verification exceeds the acceptance criteria.
S1	The Method of Standard Additions (MSA) has been performed on this sample.
T	Second-column or detector confirmation exceeded the SW-846 criteria of 40% RPD for this compound.
TIC	The compound is not included in the initial calibration curve. It is searched for qualitatively or as a Tentatively Identified Compound.
U	The analyte was not detected at or above the MDL or the RL, whichever is entered next to the "U" value.
W	Post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is less than 50% spike absorbance.

When the laboratory receives a sample that does not meet EPA requirements for sample collection, preservation or holding time, the laboratory is required to reject the samples. The client must be notified and asked whether the lab should proceed with analysis. Data from any samples that do not meet sample acceptance criteria (collection, preservation and holding time), must be flagged, or noted on a corrective action form or case narrative, or addressed on the Project Sample Inspection Form (PSIF) in an unambiguous manner clearly defining the nature and substance of the variation. NPDES samples from North Carolina that do not meet EPA requirements for sample collection, preservation or holding time are non-reportable for NPDES compliance monitoring.

Abbreviations

ND	Not Detected at or above the STL Pensacola reporting limit (RL)
NS	Not Submitted
NA	Not Applicable
MDL	STL Pensacola Method Detection Limit
RL	STL Pensacola Reporting Limit
NoMS	Not enough sample provided to prepare and/or analyze a method-required matrix spike (MS) and/or duplicate (MSD)

Florida Projects Inorganic/Organic

Refer to FL DEP 62-160.700(7); Table 7 Data Qualifier Codes. FL DEP Rule 62-160.670(1)(h) states that laboratories shall include the analytical result for each analysis with applicable data qualifiers. FL DEP Rule 62-160.700(7), Table 7 lists the FL DEP data qualifiers. FL DEP Rule 62-160.700(3), Table 3 lists the Florida sites which require data qualifiers.

AFCEE QAPP Projects

Refer to AFCEE QAPP for appropriate data qualifiers (AFCEE QAPP Version will be specified by client for the project).

Arizona DEQ Projects

Any qualified data submitted to Arizona DEQ (ADEQ) after January 1, 2001 must be designated using the Arizona Data Qualifiers as developed by the Arizona ELAC technical subcommittee. Refer to the ADEQ qualifier list.

CLP and CLP-like Projects

Refer to referenced CLP Statement of Work (SOW) for explanation of data qualifiers. CLP SOW to be followed must be specified to client.

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STL Pensacola is a part of Severn Trent Laboratories, Inc.

STL PENSACOLA
Certifications, Memberships & Affiliations

Alabama *Department of Environmental Management, Laboratory ID No. 40150 (Drinking Water by Reciprocity with FL), expires 06/30/02*

Arizona *Department of Health Services, Lab ID No. AZ0589 (Hazardous Waste & Wastewater), expires 01/11/03*

Arkansas *Department of Pollution Control and Ecology, (No Laboratory ID No. assigned by state) (Environmental), expires 02/20/03*

California *Department of Health Services,* ***NELAP*** *Laboratory ID No. 01128CA (Hazardous Waste and Wastewater), expires 03/31/02*

Connecticut *Department of Health Services, Connecticut Lab Approval No. PH-0697 (D W, H W and Wastewater), expires 09/30/03*

Florida *DOH,* ***NELAP*** *Laboratory ID No. E81010 (Drinking Water, Hazardous Waste and Wastewater), expires 06/30/03*

Florida *DEP/DOH CompQAP # 980156*

Kansas *Department of Health & Environment,* ***NELAP*** *Laboratory ID No. E10253 (Wastewater and Hazardous Waste), expires 10/31/02*

Kentucky *NR&EPC, Laboratory ID No. 90043 (Drinking Water), expires 12/31/02.*

Louisiana *DEQ, LELAP,* ***NELAP*** *Laboratory ID No. 02075, Agency Interest ID 30748 (Environmental, expires 6/30/03)*

Maryland *DH&MH Laboratory ID No. 233 (Drinking Water by Reciprocity with Florida), expires 09/30/02*

Massachusetts *DEP, Laboratory ID No. M-FL094 (Wastewater), expires 06/30/03*

Michigan *Bureau of E&OccH, Laboratory ID No.9912 (Drinking Water by Reciprocity with Florida), expires 06/30/02*

New ***Hampshire*** *DES ELAP,* ***NELAP*** *Laboratory ID No. 250501 (Wastewater), expires 08/16/02*

New Jersey *DEP&E,* ***NELAP*** *Laboratory ID No. FL006 (Wastewater and Hazardous Waster), expires 06/30/03.*

New York State *Department of Health,* ***NELAP*** *Laboratory ID No. 11503 (WW and Solids/Hazardous Waste), expires 04/01/2003*

North Carolina *DENR, Laboratory ID No. 314 (Hazardous Waste and Wastewater), expires 12/31/02.*

North Dakota *DH&Consol Labs, Laboratory ID No. R-108 Wastewater and Hazardous Waste by Reciprocity with Florida), expires 06/30/02*

Oklahoma *Department of Environmental Quality, Laboratory ID No. 9810 (Hazardous Waste and Wastewater), expires 08/31/02*

Pennsylvania *Department of Environmental Resources,* ***NELAP*** *Laboratory ID No. 68-467 (Drinking Water & Wastewater), expires 12/01/02*

South Carolina *DH&EC, Laboratory ID No. 96026 (Wastewater & Solids/Hazardous Waste by Reciprocity with FL), expires 06/30/02*

Tennessee *Department of Health & Environment, Laboratory ID No. 02907 (Drinking Water), expires 08/03/04*

Virginia *Department of General Services, Laboratory ID No. 00008 (Drinking Water by Reciprocity with FL), expires 06/30/03.*

Washington *Department of Ecology, Laboratory ID No. C282 (Hazardous Waste and Wastewater), expires 09/14/02.*

West Virginia *DOE, Office of Water Resources, Laboratory ID No. 136 (Haz Waste and Wastewater), expires 04/30/02.*

American Industrial Hygiene Association ***(AIHA)*** *Accredited Laboratory, Laboratory ID No. 100704, expires April 1, 2004. Participant in AIHA sponsored Laboratory PAT Rounds*

EPA ICR *(Information Collection Rule) Approved Laboratory, Laboratory ID No. ICRFL031*

Naval Facilities Engineering Services Center ***(NFESC)****, expires July 5, 2002.*

United States Army Corps. of Engineers ***(USACE)****, MRD, expires January 5, 2003.*

STL Pensacola also has a foreign soil permit to accept soils from locations other than the continental United States. Permit No. S-37599

certlist\condcert.lst revised 07/24/02.

STL Pensacola
PROJECT SAMPLE INSPECTION FORM

SEVERN TRENT SERVICES

Lab Order #: C20739 Date Received: 16-Jul-02

1. Was there a Chain of Custody? (Yes) No*
2. Was Chain of Custody properly filled out and relinquished? (Yes) No*
3. Were samples received cold? (Yes) No* N/A (Criteria: 2° - 6°C: STL-SOP
4. Were all samples properly labeled and identified? (Yes) No*
5. Did samples require splitting or compositing♦? Yes* (No)
   Req By: PM Client Other♦
6. Were samples received in proper containers for analysis requested? (Yes) No*
7. Were all sample containers received intact? (Yes) No*
8. Were samples checked for preservative? *(Check pH of all H_2O requiring preservative (STL-PN SOP 917) except VOA vials that require zero headspace)+* (Yes) No* N/A
9. Is there sufficient volume for analysis requested? (Yes) No* N/A *(Can)*
10. Were samples received within Holding Time? (REFER TO STL-SOP 1040) Yes (No*)
11. Is Headspace visible > ¼" in diameter in VOA vials?* If any headspace is evident, comment in out-of-control section. Yes* No (N/A)
12. If sent, were matrix spike bottles returned? Yes No* (N/A)
13. Was Project Manager notified of problems? (initials: PLG) (Yes) No* N/A By PSIF

Airbill Number(s): 1Z878168014396003 0 **Shipped By:** UPS

Cooler Number(s): client **Shipping Charges:** N/A

Cooler Weight(s): N/A **Cooler Temp(s) (°C):**

(LIST THERMOMETER NUMBER(S) FOR VERIFICATION)

Out of Control Events and Inspection Comments:

10- NNO3 for all samples were received out of hold time. PLG 7/16/02

(USE BACK OF PSIF FOR ADDITIONAL NOTES AND COMMENTS)

Inspected By: PLG **Date:** 7/16/02 **Logged By:** PLG **Date:** 7/16/02

♣ *Note all Out-of-Control and/or questionable events on Comment Section of this form. For holding times, the analytical department will flag immediate hold time samples(pH, Dissolved O_2, Residual CL) as out of hold time, therefore, these samples will not be documented on this PSIF.*

♦ *If Other, note who requested the splitting or compositing of samples on the Comment Section of this form. All volatile samples requested to be split or composited must be done in the Volatile Lab. Document: "Volatile sample values may be compromised due to sample splitting (compositing)"*

\+ *All preservatives for the State of North Carolina, the State of New York, and other requested samples are to be recorded on the sheet provided to record pH results (STL-SOP 938, section 2.2.9).*

* *According to EPA, ¼" of headspace is allowed in 40 ml vials requiring volatile analysis, however, STL makes it policy to record any headspace as out-of-control (STL-SOP 938, section 2.2.12).*

Pinnacle Laboratories, Inc. | **Interlab Chain of Custody** | Date: 7/15/02 Page: 1 of 1

Network Project Manager: Jacinta A. Tenorio

Pinnacle Laboratories, Inc.
2709-D Pan American Freeway, NE
Albuquerque, New Mexico 87107
(505) 344-3777 Fax (505) 344-4413

C20739

WATCH HOLD TIME!!

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Metals (8) RCRA	RCRA TCLP METALS	Metals-13 PP List	Metals-TAL (23 METALS)	Al, Sb, As, Ba, Be, B, Cd, Cr, Co, Cu	Fe, Mn, Pb, Mo, Ni, Se, Si, Ag, Tl, Sn	Cations: Ca, Mg, K, Na	Gen Chemistry: F, TDS, Cl, SO4, pH	Alk. + Bicarb/Carb, EC, Total NO3	Oil and Grease	Volatile Organics GC/MS (8260)	Cation/Anion Balance	COD	PESTICIDES/PCB (608/8082)	Herbicides (615/8151)	PNA (8310)/8270 SIMS	8240 (TCLP 1311) ZHE		Base/Neutral Acid Compounds GC/MS (625/8270)	URANIUM (ICP-MS)	RADIUM 226+228	Gross Alpha/Beta	TO-14	NUMBER OF CONTAINERS
MW-1/207050-01	7/9/02	1445	AQ	1					X	X	X	X	X			X											
MW-2/207050-02	↓	1515	↓	2					X	X	X	X	X			X											
MW-3/207050-03	↓	1545	↓	3					X	X	X	X	X			X											

PROJECT INFORMATION		SAMPLE RECEIPT		SAMPLES SENT TO:		RELINQUISED BY: 1.	RELINQUISED BY: 2.
PROJECT #: 207050		Total Number of Containers		PENSACOLA - STL-FL	X	Signature: Francine Tenorio Time: 1700	Signature: Time:
PROJ. NAME: RESP		Chain of Custody Seals		ESL - OR		Printed Name: Francine Tenorio Date: 7/15/02	Printed Name: Date:
QC LEVEL: (STD.) IV		Received Intact?		STL - CT		Pinnacle Laboratories, Inc.	Company
QC REQUIRED: MS MSD BLANK		Received Good Cond./Cold		ATEL - AZ		RECEIVED BY: 1.	RECEIVED BY: 2.
TAT: (STANDARD) RUSH!!		LAB NUMBER:		ATEL - MARION		Signature: Time: 0915	Signature: Time:
DUE DATE: 7/29	COMMENTS:			ATEL - MELMORE		Printed Name: R. ELSPERMAN Date: 7/16/02	Printed Name: Date:
RUSH SURCHARGE: —				BARRINGER		Company	Company
CLIENT DISCOUNT:				ENVIRO TEST LABS			
SPECIAL CERTIFICATION REQUIRED: YES (NO)				WCAS			
				WOHL			

Environmental Services Laboratory, Inc.

E S L

17400 SW Upper Boones Ferry Road, Suite 270 • Portland, OR 97224 • (503) 670-8520

July 18, 2002

Jacinta A. Tenorio
Pinnacle Laboratories
2709-D Pan American Fwy NE
Albuquerque, NM 87107
TEL: 505-344-3777
FAX (505) 344-4413

RE: 207050/RESP Order No.: 0207109

Dear Jacinta A. Tenorio,

Environmental Services Laboratory received 3 samples on 7/16/02 for the analyses presented in the following report.

The Samples were analyzed for the following tests:
PAH BY SIM, Aqueous (8270-SIM)

Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety, without the written approval of the Laboratory.
The following checked data sections are included in this report, and numbered to indicate total pages within each report section.

✓Base Sample Report ✓Method Blank Report __Sample Duplicate Report
__Matrix Spike Report ✓Laboratory Control Spike ✓Continuing Calibration Verification Report __Initial Calibration Verification Report
If you have any questions regarding these test results, please feel free to call.

Sincerely,

Leslie Rush
Project Manager

Technical Review

Case Narrative

ESL Job: 0207109 July 18, 2002

Sample numbers 0207109-01, 0207109-02, and 0207109-03 were tested for PAHs by Method 8270-SIM. In addition to the standard PAH compound list, the samples were evaluated for 1-methylnaphthalene, and 2-methylnaphthalene. The data for these compounds are reported in the table below. The samples passed all applicable QC.

Please do not hesitate to call if there are any questions, or if we can be of further assistance in this project. Thank you.

Matt Shipman - Chemist

Sample	Spike level (ppb)	1-methylnaphthalene (ppb)	% recovery	2-methylnaphthalene (ppb)	% recovery	PQL
CCV	5	4.63	92.4	4.74	94.8	0.1
LCS	0.5	0.36	72.0	0.34	68.0	0.1
LCSD	0.5	0.32	64.0	0.31	62.0	0.1
0207109-01	0	<0.4		<0.4		0.4
0207109-03	0	<0.4		<0.4		0.4
0207109-03	0	<0.4		<0.4		0.4

Environmental Services Laboratory

Date: *18-Jul-02*

CLIENT:	Pinnacle Laboratories	**Client Sample ID:**	MW-1/207050-01
Lab Order:	0207109	**Tag Number:**	
Project:	207050/RESP	**Collection Date:**	7/9/02
Lab ID:	0207109-01A	**Matrix:**	AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
PAH BY SIM, AQUEOUS		**8270-SIM**				Analyst: **mrs**
Acenaphthene	ND	0.100		µg/L	1	7/17/02
Acenaphthylene	ND	0.100		µg/L	1	7/17/02
Anthracene	ND	0.100		µg/L	1	7/17/02
Benz(a)anthracene	ND	0.100		µg/L	1	7/17/02
Benzo(a)pyrene	ND	0.100		µg/L	1	7/17/02
Benzo(b)fluoranthene	ND	0.100		µg/L	1	7/17/02
Benzo(g,h,i)perylene	ND	0.100		µg/L	1	7/17/02
Benzo(k)fluoranthene	ND	0.100		µg/L	1	7/17/02
Chrysene	ND	0.100		µg/L	1	7/17/02
Dibenz(a,h)anthracene	ND	0.100		µg/L	1	7/17/02
Fluoranthene	ND	0.100		µg/L	1	7/17/02
Fluorene	ND	0.100		µg/L	1	7/17/02
Indeno(1,2,3-cd)pyrene	ND	0.100		µg/L	1	7/17/02
Naphthalene	ND	0.100		µg/L	1	7/17/02
Phenanthrene	ND	0.100		µg/L	1	7/17/02
Pyrene	ND	0.100		µg/L	1	7/17/02
Surr: 2-Fluorobiphenyl	66.0	43-116		%REC	1	7/17/02
Surr: 4-Terphenyl-d14	106.0	33-141		%REC	1	7/17/02
Surr: Nitrobenzene-d5	40.0	35-114		%REC	1	7/17/02

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Environmental Services Laboratory

Date: *18-Jul-02*

CLIENT:	Pinnacle Laboratories	**Client Sample ID:**	MW-2/207050-02
Lab Order:	0207109	**Tag Number:**	
Project:	207050/RESP	**Collection Date:**	7/9/02
Lab ID:	0207109-02A	**Matrix:**	AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
PAH BY SIM, AQUEOUS		**8270-SIM**				Analyst: **mrs**
Acenaphthene	ND	0.100		µg/L	1	7/17/02
Acenaphthylene	ND	0.100		µg/L	1	7/17/02
Anthracene	ND	0.100		µg/L	1	7/17/02
Benz(a)anthracene	ND	0.100		µg/L	1	7/17/02
Benzo(a)pyrene	ND	0.100		µg/L	1	7/17/02
Benzo(b)fluoranthene	ND	0.100		µg/L	1	7/17/02
Benzo(g,h,i)perylene	ND	0.100		µg/L	1	7/17/02
Benzo(k)fluoranthene	ND	0.100		µg/L	1	7/17/02
Chrysene	ND	0.100		µg/L	1	7/17/02
Dibenz(a,h)anthracene	ND	0.100		µg/L	1	7/17/02
Fluoranthene	ND	0.100		µg/L	1	7/17/02
Fluorene	ND	0.100		µg/L	1	7/17/02
Indeno(1,2,3-cd)pyrene	ND	0.100		µg/L	1	7/17/02
Naphthalene	ND	0.100		µg/L	1	7/17/02
Phenanthrene	ND	0.100		µg/L	1	7/17/02
Pyrene	ND	0.100		µg/L	1	7/17/02
Surr: 2-Fluorobiphenyl	66.0	43-116		%REC	1	7/17/02
Surr: 4-Terphenyl-d14	108.0	33-141		%REC	1	7/17/02
Surr: Nitrobenzene-d5	40.0	35-114		%REC	1	7/17/02

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Environmental Services Laboratory

Date: *18-Jul-02*

CLIENT:	Pinnacle Laboratories	**Client Sample ID:**	MW-3/207050-03
Lab Order:	0207109	**Tag Number:**	
Project:	207050/RESP	**Collection Date:**	7/9/02
Lab ID:	0207109-03A	**Matrix:**	AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
PAH BY SIM, AQUEOUS		**8270-SIM**				Analyst: **mrs**
Acenaphthene	ND	0.100		µg/L	1	7/17/02
Acenaphthylene	ND	0.100		µg/L	1	7/17/02
Anthracene	ND	0.100		µg/L	1	7/17/02
Benz(a)anthracene	ND	0.100		µg/L	1	7/17/02
Benzo(a)pyrene	ND	0.100		µg/L	1	7/17/02
Benzo(b)fluoranthene	ND	0.100		µg/L	1	7/17/02
Benzo(g,h,i)perylene	ND	0.100		µg/L	1	7/17/02
Benzo(k)fluoranthene	ND	0.100		µg/L	1	7/17/02
Chrysene	ND	0.100		µg/L	1	7/17/02
Dibenz(a,h)anthracene	ND	0.100		µg/L	1	7/17/02
Fluoranthene	ND	0.100		µg/L	1	7/17/02
Fluorene	ND	0.100		µg/L	1	7/17/02
Indeno(1,2,3-cd)pyrene	ND	0.100		µg/L	1	7/17/02
Naphthalene	ND	0.100		µg/L	1	7/17/02
Phenanthrene	ND	0.100		µg/L	1	7/17/02
Pyrene	ND	0.100		µg/L	1	7/17/02
Surr: 2-Fluorobiphenyl	64.0	43-116		%REC	1	7/17/02
Surr: 4-Terphenyl-d14	92.0	33-141		%REC	1	7/17/02
Surr: Nitrobenzene-d5	36.0	35-114		%REC	1	7/17/02

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Environmental Services Laboratory

Date: *19-Jul-02*

CLIENT: Pinnacle Laboratories
Work Order: 0207109
Project: 207050/RESP

QC SUMMARY REPORT
Method Blank

Sample ID: **MB-4545** Batch ID: **4545** Test Code: **8270-SIM** Units: **µg/L** Analysis Date: **7/17/02** Prep Date: **7/17/02**

Client ID: **0207109** Run ID: **HEISENBURG_020717B** SeqNo: **129056**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	ND	0.1									
Acenaphthylene	ND	0.1									
Anthracene	ND	0.1									
Benz(a)anthracene	ND	0.1									
Benzo(a)pyrene	ND	0.1									
Benzo(b)fluoranthene	ND	0.1									
Benzo(g,h,i)perylene	ND	0.1									
Benzo(k)fluoranthene	ND	0.1									
Chrysene	ND	0.1									
Dibenz(a,h)anthracene	ND	0.1									
Fluoranthene	ND	0.1									
Fluorene	ND	0.1									
Indeno(1,2,3-cd)pyrene	ND	0.1									
Naphthalene	ND	0.1									
Phenanthrene	ND	0.1									
Pyrene	ND	0.1									
2-Fluorobiphenyl	.39	0	0.5	0	78.0%	43	116	0			
4-Terphenyl-d14	.49	0	0.5	0	98.0%	33	141	0			
Nitrobenzene-d5	.28	0	0.5	0	56.0%	35	114	0			

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

Environmental Services Laboratory

Date: *19-Jul-02*

CLIENT: Pinnacle Laboratories
Work Order: 0207109
Project: 207050/RESP

QC SUMMARY REPORT
Sample Duplicate

Sample ID: **0207107-02A DUP** Batch ID: **4545** Test Code: **8270-SIM** Units: **µg/L** Analysis Date: **7/17/02** Prep Date: **7/17/02**
Client ID: **0207109** Run ID: **HEISENBURG_020717B** SeqNo: **129062**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	ND	0.1	0	0	0.0%	0	0	0	0.0%	20	
Acenaphthylene	ND	0.1	0	0	0.0%	0	0	0	0.0%	20	
Anthracene	ND	0.1	0	0	0.0%	0	0	0	0.0%	20	
Benz(a)anthracene	ND	0.1	0	0	0.0%	0	0	0	0.0%	20	
Benzo(a)pyrene	ND	0.1	0	0	0.0%	0	0	0	0.0%	20	
Benzo(b)fluoranthene	ND	0.1	0	0	0.0%	0	0	0	0.0%	20	
Benzo(g,h,i)perylene	ND	0.1	0	0	0.0%	0	0	0	0.0%	20	
Benzo(k)fluoranthene	ND	0.1	0	0	0.0%	0	0	0	0.0%	20	
Chrysene	ND	0.1	0	0	0.0%	0	0	0	0.0%	20	
Dibenz(a,h)anthracene	ND	0.1	0	0	0.0%	0	0	0	0.0%	20	
Fluoranthene	ND	0.1	0	0	0.0%	0	0	0	0.0%	20	
Fluorene	ND	0.1	0	0	0.0%	0	0	0	0.0%	20	
Indeno(1,2,3-cd)pyrene	ND	0.1	0	0	0.0%	0	0	0	0.0%	20	
Naphthalene	ND	0.1	0	0	0.0%	0	0	0	0.0%	20	
Phenanthrene	ND	0.1	0	0	0.0%	0	0	0	0.0%	20	
Pyrene	ND	0.1	0	0	0.0%	0	0	0	0.0%	20	
2-Fluorobiphenyl	.36	0	0.5	0	72.0%	43	116	0	0.0%	0	
4-Terphenyl-d14	.62	0	0.5	0	124.0%	33	141	0	0.0%	0	
Nitrobenzene-d5	.26	0	0.5	0	52.0%	35	114	0	0.0%	0	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

Environmental Services Laboratory

Date: *19-Jul-02*

CLIENT: Pinnacle Laboratories
Work Order: 0207109
Project: 207050/RESP

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: **0207108-01A MS** Batch ID: **4545** Test Code: **8270-SIM** Units: **µg/L** Analysis Date: **7/17/02** Prep Date: **7/17/02**

Client ID: **0207109** Run ID: **HEISENBURG_020717B** SeqNo: **129068**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	.33	0.1	0.5	0	66.0%	47	145	0			
Acenaphthylene	.31	0.1	0.5	0	62.0%	33	145	0			
Anthracene	.38	0.1	0.5	0	76.0%	27	133	0			
Benz(a)anthracene	.33	0.1	0.5	0	66.0%	33	143	0			
Benzo(a)pyrene	.31	0.1	0.5	0	62.0%	17	163	0			
Benzo(b)fluoranthene	.27	0.1	0.5	0	54.0%	24	159	0			
Benzo(g,h,i)perylene	.3	0.1	0.5	0	60.0%	1	219	0			
Benzo(k)fluoranthene	.51	0.1	0.5	0	102.0%	11	162	0			
Chrysene	.55	0.1	0.5	0	110.0%	17	168	0			
Dibenz(a,h)anthracene	.23	0.1	0.5	0	46.0%	1	227	0			
Fluoranthene	.4	0.1	0.5	0	80.0%	26	137	0			
Fluorene	.3	0.1	0.5	0	60.0%	59	121	0			
Indeno(1,2,3-cd)pyrene	.26	0.1	0.5	0	52.0%	1	171	0			
Naphthalene	.3	0.1	0.5	0	60.0%	21	133	0			
Phenanthrene	.35	0.1	0.5	0	70.0%	54	120	0			
Pyrene	.57	0.1	0.5	0	114.0%	52	115	0			
2-Fluorobiphenyl	.32	0	0.5	0	64.0%	43	116	0			
4-Terphenyl-d14	.55	0	0.5	0	110.0%	33	141	0			
Nitrobenzene-d5	.18	0	0.5	0	36.0%	35	114	0			

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Environmental Services Laboratory

Date: *19-Jul-02*

CLIENT: Pinnacle Laboratories
Work Order: 0207109
Project: 207050/RESP

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: **LCS-4545** Batch ID: **4545** Test Code: **8270-SIM** Units: **µg/L** Analysis Date: **7/17/02** Prep Date: **7/17/02**

Client ID: **0207109** Run ID: **HEISENBURG_020717B** SeqNo: **129058**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	.36	0.1	0.5	0	72.0%	47	145	0			
Acenaphthylene	.36	0.1	0.5	0	72.0%	33	145	0			
Anthracene	.34	0.1	0.5	0	68.0%	27	133	0			
Benz(a)anthracene	.35	0.1	0.5	0	70.0%	33	143	0			
Benzo(a)pyrene	.36	0.1	0.5	0	72.0%	17	163	0			
Benzo(b)fluoranthene	.27	0.1	0.5	0	54.0%	24	159	0			
Benzo(g,h,i)perylene	.31	0.1	0.5	0	62.0%	1	219	0			
Benzo(k)fluoranthene	.47	0.1	0.5	0	94.0%	11	162	0			
Chrysene	.52	0.1	0.5	0	104.0%	17	168	0			
Dibenz(a,h)anthracene	.34	0.1	0.5	0	68.0%	1	227	0			
Fluoranthene	.43	0.1	0.5	0	86.0%	26	137	0			
Fluorene	.35	0.1	0.5	0	70.0%	59	121	0			
Indeno(1,2,3-cd)pyrene	.27	0.1	0.5	0	54.0%	1	171	0			
Naphthalene	.28	0.1	0.5	0	56.0%	21	133	0			
Phenanthrene	.37	0.1	0.5	0	74.0%	54	120	0			
Pyrene	.57	0.1	0.5	0	114.0%	52	115	0			
2-Fluorobiphenyl	.37	0	0.5	0	74.0%	43	116	0			
4-Terphenyl-d14	.58	0	0.5	0	116.0%	33	141	0			
Nitrobenzene-d5	.19	0	0.5	0	38.0%	35	114	0			

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Pinnacle Laboratories
Work Order: 0207109
Project: 207050/RESP

QC SUMMARY REPORT
Laboratory Control Spike Duplicate

Sample ID: **LCSD-4545** Batch ID: **4545** Test Code: **8270-SIM** Units: **µg/L** Analysis Date: **7/17/02** Prep Date: **7/17/02**
Client ID: **0207109** Run ID: **HEISENBURG_020717B** SeqNo: **129059**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	.34	0.1	0.5	0	68.0%	47	145	0.36	5.7%	30	
Acenaphthylene	.33	0.1	0.5	0	66.0%	33	145	0.36	8.7%	30	
Anthracene	.33	0.1	0.5	0	66.0%	27	133	0.34	3.0%	30	
Benz(a)anthracene	.34	0.1	0.5	0	68.0%	33	143	0.35	2.9%	30	
Benzo(a)pyrene	.35	0.1	0.5	0	70.0%	17	163	0.36	2.8%	30	
Benzo(b)fluoranthene	.24	0.1	0.5	0	48.0%	24	159	0.27	11.8%	30	
Benzo(g,h,i)perylene	.36	0.1	0.5	0	72.0%	1	219	0.31	14.9%	30	
Benzo(k)fluoranthene	.48	0.1	0.5	0	96.0%	11	162	0.47	2.1%	30	
Chrysene	.5	0.1	0.5	0	100.0%	17	168	0.52	3.9%	30	
Dibenz(a,h)anthracene	.3	0.1	0.5	0	60.0%	1	227	0.34	12.5%	30	
Fluoranthene	.43	0.1	0.5	0	86.0%	26	137	0.43	0.0%	30	
Fluorene	.33	0.1	0.5	0	66.0%	59	121	0.35	5.9%	30	
Indeno(1,2,3-cd)pyrene	.26	0.1	0.5	0	52.0%	1	171	0.27	3.8%	30	
Naphthalene	.32	0.1	0.5	0	64.0%	21	133	0.28	13.3%	30	
Phenanthrene	.36	0.1	0.5	0	72.0%	54	120	0.37	2.7%	30	
Pyrene	.56	0.1	0.5	0	112.0%	52	115	0.57	1.8%	30	
2-Fluorobiphenyl	.35	0	0.5	0	70.0%	43	116	0	0.0%	30	
4-Terphenyl-d14	.57	0	0.5	0	114.0%	33	141	0	0.0%	30	
Nitrobenzene-d5	.21	0	0.5	0	42.0%	35	114	0	0.0%	30	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

Environmental Services Laboratory

Date: *19-Jul-02*

CLIENT: Pinnacle Laboratories
Work Order: 0207109
Project: 207050/RESP

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: **CCV** Batch ID: **4545** Test Code: **8270-SIM** Units: **µg/L** Analysis Date: **7/17/02** Prep Date:

Client ID: **0207109** Run ID: **HEISENBURG_020717B** SeqNo: **129057**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	4.66	0.1	5	0	93.2%	80	120	0			
Acenaphthylene	4.84	0.1	5	0	96.8%	80	120	0			
Anthracene	4.35	0.1	5	0	87.0%	80	120	0			
Benz(a)anthracene	4.96	0.1	5	0	99.2%	80	120	0			
Benzo(a)pyrene	5.09	0.1	5	0	101.8%	80	120	0			
Benzo(b)fluoranthene	4.21	0.1	5	0	84.2%	80	120	0			
Benzo(g,h,i)perylene	5.07	0.1	5	0	101.4%	80	120	0			
Benzo(k)fluoranthene	4.92	0.1	5	0	98.4%	80	120	0			
Chrysene	4.81	0.1	5	0	96.2%	80	120	0			
Dibenz(a,h)anthracene	4.74	0.1	5	0	94.8%	80	120	0			
Fluoranthene	4.8	0.1	5	0	96.0%	80	120	0			
Fluorene	4.83	0.1	5	0	96.6%	80	120	0			
Indeno(1,2,3-cd)pyrene	5.05	0.1	5	0	101.0%	80	120	0			
Naphthalene	4.76	0.1	5	0	95.2%	80	120	0			
Phenanthrene	4.71	0.1	5	0	94.2%	80	120	0			
Pyrene	5.76	0.1	5	0	115.2%	80	120	0			
2-Fluorobiphenyl	4.84	0	5	0	96.8%	43	116	0			
4-Terphenyl-d14	5.56	0	5	0	111.2%	33	141	0			
Nitrobenzene-d5	4.52	0	5	0	90.4%	35	114	0			

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Pinnacle Laboratories, Inc.

Interlab Chain of Custody

Date: 7/15/02 Page: 1 of 1

a207107

Network Project Manager: Jacinta A. Tenorio

Pinnacle Laboratories, Inc.
2709-D Pan American Freeway, NE
Albuquerque, New Mexico 87107
(505) 344-3777 Fax (505) 344-4413

WATCH HOLD TIMES!!

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Metals (8) RCRA	RCRA TCLP METALS	Metals-13 PP List	Metals-TAL (23 METALS)		TOX	TOC	Gen Chemistry:		Oil and Grease	Volatile Organics GC/MS (8260)	BOD	COD	PESTICIDES/PCB (608/8082)	Herbicides (615/8151)	PNA (8310)/8270 SIMS	8240 (TCLP 1311) ZHE		Base/Neutral Acid Compounds GC/MS (625/8270)	URANIUM (ICP-MS)	RADIUM 226+228	Gross Alpha/Beta	TO-14	NUMBER OF CONTAINERS
MW-1/207050-01	7/9/02	1445	AQ	01																X								3
MW-2/207050-02	↓	1515	↓	02																X								3
MW-3/207050-03	↓	1545	↓	03																X								3

PROJECT INFORMATION		SAMPLE RECEIPT		SAMPLES SENT TO:	
PROJECT #:	207050	Total Number of Containers		PENSACOLA - STL-FL	
PROJ. NAME:	RESP	Chain of Custody Seals		ESL - OR	X
QC LEVEL:	(STD.) IV	Received Intact?		STL - CT	
QC REQUIRED:	(MS) MSD BLANK	Received Good Cond./Cold		ATEL - AZ	
TAT:	(STANDARD) RUSH!!	LAB NUMBER:		ATEL - MARION	
				ATEL - MELMORE	
DUE DATE:	7/29	COMMENTS:		BARRINGER	
RUSH SURCHARGE:	—			ENVIRO TEST LABS	
CLIENT DISCOUNT:	—			WCAS	
SPECIAL CERTIFICATION REQUIRED: YES	(NO)			WOHL	

RELINQUISED BY: 1.	RELINQUISED BY: 2.
Signature: Francine Tenio Time: 1700	Signature: Time:
Printed Name: Francine Tenio Date: 7/15/02	Printed Name: Date:
Pinnacle Laboratories, Inc.	Company
RECEIVED BY: 1.	**RECEIVED BY: 2**
Signature: Time: 10:25	Signature: Time:
Printed Name: Storm T Hawk Date: 7/16-02	Printed Name: Date:
Company FSI	Company

Pinnacle Laboratories Inc.

CHAIN OF CUSTODY

DATE: 7/15/02 PAGE: 1 OF 1

PLI Accession #: 207050

SHADED AREAS ARE FOR LAB USE ONLY.

PLEASE FILL THIS FORM IN COMPLETELY.

PROJECT MANAGER: John Bunch

COMPANY: RESPEC Inc

ADDRESS: 4775 Indian School
Suite 300, ABQ, NM 87110

PHONE: 505-268-2661

FAX: 505-268-0400

BILL TO: ~~RESPEC~~ OCD

COMPANY:

ADDRESS:

SAMPLE ID	DATE	TIME	MATRIX	LAB I.D.
MW-1	7/9/02	2:45	H2O	01
MW-2	"	3:15	"	02
MW-3	"	3:45	"	03
Trip Blank	6/19/02	1500	"	04

ANALYSIS REQUEST

SAMPLE ID	Petroleum Hydrocarbons (418.1) TRPH	(MOD.8015) Diesel/Direct Inject		(M8015) Gas/Purge & Trap	8021 (BTEX)/8015 (Gasoline) MTBE	8021 (BTEX) ☐MTBE ☐TMB ☐PCE	8021 (TCL)	8021 (EDX)	8021 (HALO)	8021 (CUST)	504.1 EDB ☐ / DBCP ☐		8260 (TCL) Volatile Organics	8260 (Full) Volatile Organics	8260 (CUST) Volatile Organics	8260 (Landfill) Volatile Organics	Pesticides/PCB (608/8081/8082)	Herbicides (615/8151)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Polynuclear Aromatics (610/8310/8270-SIMS)	General Chemistry: TDS, Total Alk	Maj. Cations, Anions	Priority Pollutant Metals (13)	Target Analyte List Metals (23)	RCRA Metals (8)	RCRA Metals by TCLP (Method 1311)	Metals: WQCC Metals	Cation/Anion Balance	NUMBER OF CONTAINERS
MW-1						X														X	X	X					X	X	8
MW-2						X														X	X	X					X	X	8
MW-3						X														X	X	X					X	X	8
Trip Blank						X																							1

PROJECT INFORMATION

PROJ. NO.:

PROJ. NAME: OCD Eunice

P.O. NO.:

SHIPPED VIA:

SAMPLE RECEIPT

NO CONTAINERS	25
CUSTODY SEALS	Y/N/(NA)
RECEIVED INTACT	yes
BLUE ICE/ICE	2.4°C

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

(RUSH) ☐24hr ☐48hr ☐72hr ☐1 WEEK (NORMAL) ☒

CERTIFICATION REQUIRED ☐NM ☐SDWA ☐OTHER

METHANOL PRESERVATION ☐

COMMENTS: FIXED FEE ☐

RELINQUISHED BY: 1.
Signature: [signature] Time: 11:55
Printed Name: DAVID NYE Date: 7/15/02
Company: RESPEC, Inc.
See reverse side (Force Majeure)

RECEIVED BY: 1.
Signature: Time:
Printed Name: Date:
Company:

RELINQUISHED BY: 2.
Signature: Time:
Printed Name: Date:
Company:

RECEIVED BY: (LAB) 2.
Signature: Francine Trujillo Time: 1155
Printed Name: Francine Trujillo Date: 7/15/02
Pinnacle Laboratories Inc.

PINNACLE LABORATORIES

2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

Bill To: N.M. Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Client #: 810-134

Date	Invoice
7/19'02	83654

Project #: Eunice-OCD
Project Name: Eunice-OCD

Original
BALANCE DUE: 1,491.00

PO Number	Terms	Project
	Net 30	PIN ALB-810

Quantity	Description	Rate	Amount
21	Item 032 Total Pet. Hydrocarbons DRO C6-C28	45.00	945.00
21	Item 052 Chloride only	14.00	294.00
21	Item 052 Chloride Prep Charge	12.00	252.00

Remit to: Pinnacle Laboratories, Inc.
2709-D Pan American Freeway NE
Albuquerque, NM 87107

ok to pay 7-24-02 MJK

Accession #: 207015 P.A.#: 20-521-07-02497
Authorized By: Martyne Kieling

TOTAL: 1,491.00

PINNACLE LABORATORIES

2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

Bill To: N.M. Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Client #: 810-134

Date	Invoice
7/19'02	83655

Project #: 1349
Proj Name: General Petroleum

Original
BALANCE DUE: 730.00

PO Number	Terms	Project
	Net 30	PIN ALB-810

Quantity	Description	Rate	Amount
10	Item 032 Total Pet. Hydrocarbons DRO C6-C28	45.00	450.00
10	Item 052 Chloride Only	14.00	140.00
10	Item 052 Chloride Prep Charge	14.00	140.00

Remit to: Pinnacle Laboratories, Inc.
2709-D Pan American Freeway NE
Albuquerque, NM 87107

ok to pay 7-24-02 mjk

Accession #: 206110
Authorized By: Martyne Kieling

TOTAL: 730.00

PINNACLE LABORATORIES

2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

Pinnacle Lab ID number **206110**
July 19, 2002

RESPEC
4775 INDIAN SCHOOL RD. NE STE. 300
ALBUQUERQUE, NM 87110

Project Name GENERAL PETROLEUM
Project Number 1349

Attention: DAVE HENARD

On 06/28/02 Pinnacle Laboratories, Inc., (ADHS License No. AZ0592 pending), received a request to analyze **non-aq** samples. The samples were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

EPA method 8015 analyses were performed by Pinnacle Laboratories, Inc. Albuquerque, NM.

All other analyses were performed by Severn Trent Laboratories, Inc. Pensacola, FL.

If you have any questions or comments, please do not hesitate to contact us at (505)344-3777.

H. Mitchell Rubenstein, Ph. D.
General Manager

MR: jt

Enclosure

PINNACLE LABORATORIES

2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

CLIENT	: RESPEC	PINNACLE ID	: 206110
PROJECT #	: 1349	DATE RECEIVED	: 06/28/02
PROJECT NAME	: GENERAL PETROLEUM	REPORT DATE	: 07/19/02

PINNACLE ID #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
206110 - 01	SB-1 @ 5'	NON-AQ	06/26/02
206110 - 02	SB-1 @ 10'	NON-AQ	06/26/02
206110 - 03	SB-1 @ 15'	NON-AQ	06/26/02
206110 - 04	SB-2 @ 10'	NON-AQ	06/27/02
206110 - 05	SB-3 @ 10'	NON-AQ	06/27/02
206110 - 06	SB-4 @ 5'	NON-AQ	06/27/02
206110 - 07	SB-4 @ 10'	NON-AQ	06/27/02
206110 - 08	MW-1 @ 15'	NON-AQ	06/25/02
206110 - 09	MW-1 @ 30'	NON-AQ	06/25/02
206110 - 10	MW-1 @ 90'	NON-AQ	06/25/02

PINNACLE LABORATORIES

2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8015 MODIFIED (DIRECT INJECT)
CLIENT : RESPEC PINNACLE I.D.: 206110
PROJECT # : 1349
PROJECT NAME : GENERAL PETROLEUM

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	SB-1 @ 5'	NON-AQ	06/26/02	07/05/02	07/09/02	1
02	SB-1 @ 10'	NON-AQ	06/26/02	07/05/02	07/08/02	10
03	SB-1 @ 15'	NON-AQ	06/26/02	07/05/02	07/09/02	10

PARAMETER	DET. LIMIT	UNITS	SB-1 @ 5'	SB-1 @ 10'	SB-1 @ 15'
FUEL HYDROCARBONS, C7-C10	10	**MG/KG**	< 10	**1500**	**320**
FUEL HYDROCARBONS, C10-C22	10	**MG/KG**	**270**	**5700**	**2500**
FUEL HYDROCARBONS, C22-C36	10	**MG/KG**	**1300**	**2200**	**1000**
CALCULATED SUM:			**1570**	**9400**	**3820**
SURROGATE:					
O-TERPHENYL (%)			121	148	121
SURROGATE LIMITS	(66 - 151)				

CHEMIST NOTES:

PINNACLE LABORATORIES

2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8015 MODIFIED (DIRECT INJECT)
CLIENT : RESPEC PINNACLE I.D.: 206110
PROJECT # : 1349
PROJECT NAME : GENERAL PETROLEUM

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
04	SB-2 @ 10'	NON-AQ	06/27/02	07/05/02	07/09/02	1
05	SB-3 @ 10'	NON-AQ	06/27/02	07/05/02	07/09/02	1
06	SB-4 @ 5'	NON-AQ	06/27/02	07/05/02	07/09/02	20

PARAMETER	DET. LIMIT	UNITS	SB-2 @ 10'	SB-3 @ 10'	SB-4 @ 5'
FUEL HYDROCARBONS, C7-C10	10	**MG/KG**	< 10	< 10	**1900**
FUEL HYDROCARBONS, C10-C22	10	**MG/KG**	< 10	< 10	**18000**
FUEL HYDROCARBONS, C22-C36	10	**MG/KG**	< 10	< 10	**11000**
CALCULATED SUM:					**30900**
SURROGATE:					
O-TERPHENYL (%)			128	124	120
SURROGATE LIMITS	(66 - 151)				

CHEMIST NOTES:
N/A

PINNACLE LABORATORIES

2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
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Fax (505) 344-4413

GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8015 MODIFIED (DIRECT INJECT)
CLIENT : RESPEC PINNACLE I.D.: 206110
PROJECT # : 1349
PROJECT NAME : GENERAL PETROLEUM

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
07	SB-4 @ 10'	NON-AQ	06/27/02	07/05/02	07/09/02	1
08	MW-1 @ 15'	NON-AQ	06/25/02	07/05/02	07/09/02	1
09	MW-1 @ 30'	NON-AQ	06/25/02	07/05/02	07/09/02	1

PARAMETER	DET. LIMIT	UNITS	SB-4 @ 10'	MW-1 @ 15'	MW-1 @ 30'
FUEL HYDROCARBONS, C7-C10	10	MG/KG	< 10	< 10	< 10
FUEL HYDROCARBONS, C10-C22	10	MG/KG	< 10	< 10	< 10
FUEL HYDROCARBONS, C22-C36	10	MG/KG	< 10	< 10	< 10
CALCULATED SUM:					
SURROGATE:					
O-TERPHENYL (%)			95	91	101
SURROGATE LIMITS	(66 - 151)				

CHEMIST NOTES:
N/A

PINNACLE LABORATORIES

2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8015 MODIFIED (DIRECT INJECT)
CLIENT : RESPEC PINNACLE I.D.: 206110
PROJECT # : 1349
PROJECT NAME : GENERAL PETROLEUM

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
10	MW-1 @ 90'	NON-AQ	06/25/02	07/05/02	07/09/02	1

PARAMETER	DET. LIMIT	UNITS	MW-1 @ 90'
FUEL HYDROCARBONS, C7-C10	10	MG/KG	< 10
FUEL HYDROCARBONS, C10-C22	10	MG/KG	< 10
FUEL HYDROCARBONS, C22-C36	10	MG/KG	< 10
CALCULATED SUM:			
SURROGATE:			
O-TERPHENYL (%)			96
SURROGATE LIMITS	(66 - 151)		

CHEMIST NOTES:

PINNACLE LABORATORIES

2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

GAS CHROMATOGRAPHY RESULTS
REAGENT BLANK

TEST	: EPA 8015 MODIFIED (DIRECT INJECT)	PINNACLE I.D.	: 206110
BLANK I.D.	: 070502	DATE EXTRACTED	: 07/05/02
CLIENT	: RESPEC	DATE ANALYZED	: 07/08/02
PROJECT #	: 1349	SAMPLE MATRIX	: NON-AQ
PROJECT NAME	: GENERAL PETROLEUM		

PARAMETER	UNITS	
FUEL HYDROCARBONS, C7-C10	MG/KG	< 10
FUEL HYDROCARBONS, C10-C22	MG/KG	< 10
FUEL HYDROCARBONS, C22-C36	MG/KG	< 10

SURROGATE:
O-TERPHENYL (%) 120
SURROGATE LIMITS (80 - 151)

CHEMIST NOTES:
N/A

PINNACLE LABORATORIES

2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

GAS CHROMATOGRAPHY QUALITY CONTROL
LCS/LCSD

TEST	: EPA 8015 MODIFIED (DIRECT INJECT)	PINNACLE I.D.	: 206110
BATCH #	: 070502	DATE EXTRACTED	: 07/05/02
CLIENT	: RESPEC	DATE ANALYZED	: 07/08/02
PROJECT #	: 1349	SAMPLE MATRIX	: NON-AQ
PROJECT NAME	: GENERAL PETROLEUM	UNITS	: MG/KG

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
FUEL HYDROCARBONS	<10	200	193	97	202	101	5	(56 - 148)	20

CHEMIST NOTES:
N/A

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative Percent Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

SEVERN TRENT SERVICES

STL Pensacola

LOG NO: C2-07017
Received: 02 JUL 02
Reported: 16 JUL 02

Ms. Jacinta Tenorio
Pinnacle Laboratories
2709-D Pan American Freeway Northeast
Albuquerque, NM 87107

Project: 206110,RESP-GENERAL PETROLEUM
Sampled By: Client
Code: 130220717

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
07017-1	SB-1@5'/206110-01	06-26-02/14:30
07017-2	SB-1@10'/206110-02	06-26-02/13:00
07017-3	SB-1@15'/206110-03	06-26-02/13:45
07017-4	SB-2@10'/206110-04	06-27-02/11:30
07017-5	SB-3@10'/206110-05	06-27-02/13:30

PARAMETER	07017-1	07017-2	07017-3	07017-4	07017-5
Chloride (9251), mg/kg dw	1300	1100	4500	630	160
Dilution Factor	50	50	100	50	50
Analysis Date	07.11.02	07.11.02	07.11.02	07.11.02	07.11.02
Batch ID	CKS0335	CKS0335	CKS0335	CKS0335	CKS0335
Prep Method	SOP 885	SOP 885	SOP 885	SOP 885	SOP 885
Analyst	CR	CR	CR	CR	CR
Quantitation Factor	50	50	100	50	50
Percent Solids	88	89	89	91	92

SEVERN TRENT SERVICES

STL Pensacola

LOG NO: C2-07017
Received: 02 JUL 02
Reported: 16 JUL 02

Ms. Jacinta Tenorio
Pinnacle Laboratories
2709-D Pan American Freeway Northeast
Albuquerque, NM 87107

Project: 206110,RESP-GENERAL PETROLEUM
Sampled By: Client
Code: 130220717

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
07017-6	SB-4@5'/206110-06	06-27-02/15:00
07017-7	SB-4@10'/206110-07	06-27-02/15:30
07017-8	MW-1@15'/206110-08	06-25-02/11:00
07017-9	MW-1@30'/206110-09	06-25-02/12:00
07017-10	MW-1@90'/206110-10	06-25-02/14:00

PARAMETER	07017-6	07017-7	07017-8	07017-9	07017-10
Chloride (9251), mg/kg dw	5600	490	<110	150	360
Dilution Factor	100	50	50	50	50
Analysis Date	07.11.02	07.11.02	07.11.02	07.11.02	07.11.02
Batch ID	CKS0335	CKS0335	CKS0335	CKS0335	CKS0335
Prep Method	SOP 885	SOP 885	SOP 885	SOP 885	SOP 885
Analyst	CR	CR	CR	CR	CR
Quantitation Factor	100	50	50	50	50
Percent Solids	89	89	91	84	88

SEVERN TRENT SERVICES

STL Pensacola

LOG NO: C2-07017
Received: 02 JUL 02
Reported: 16 JUL 02

Ms. Jacinta Tenorio
Pinnacle Laboratories
2709-D Pan American Freeway Northeast
Albuquerque, NM 87107

Project: 206110,RESP-GENERAL PETROLEUM
Sampled By: Client
Code: 130220717

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
07017-11	Method Blank	
07017-12	Lab Control Standard % Recovery	
07017-13	Matrix Spike % Recovery	
07017-14	Matrix Spike Duplicate % Recovery	

PARAMETER	07017-11	07017-12	07017-13	07017-14
Chloride (9251), mg/kg dw	<100	103 %	113 %	114 %
Dilution Factor	1	---	---	---
Analysis Date	07.11.02	---	---	---
Batch ID	CKS0335	CKS0335	CKS0335	CKS0335
Prep Method	SOP 885	---	---	---
Analyst	CR	---	---	---
Quantitation Factor	1	---	---	---

These test results meet all the requirements of NELAC. All questions regarding this test report should be directed to the STL Project Manager who signed this test report.
Data from any samples that do not meet client, federal, or state sample acceptance criteria (collection, preservation, or holding time) will be flagged, or noted on a corrective action form or case narrative, or addressed on the Project Sample Inspection Form (PSIF).
A statement of the estimated uncertainty of the test result is available upon request.

Lance Larson, Project Manager

Final Page Of Report

SEVERN TRENT SERVICES

STL Pensacola Data Qualifiers for Final Report

STL Pensacola

B	The analyte was detected in the associated method blank and in the client's sample.
C	The compound has been quantitated against a one point calibration.
D	Recovery is not calculable due to dilution.
E	Estimated value because the analyte concentration exceeds the upper calibration range of the instrument or method.
I	Estimated value because the analyte concentration is less than the lower calibration range of the instrument but is at the method detection limit or greater than the method detection limit.
H	Sample and/or duplicate is below 5 X (times) the STL Reporting Limit and the absolute difference between the results exceeds the STL Reporting Limit.
J1	A sample surrogate or an LCS target compound recovered above the upper control limit (UCL). Compounds qualified with a J1 may be biased high.
J2	A sample surrogate or an LCS target compound recovered outside the lower control limit (LCL). Compounds qualified with a J2 may be biased low.
M1	A matrix effect was present.
M2	The MS and/or MSD %R or RPD was outside upper or lower control limits; not necessarily due to matrix effect.
N/C	Not Calculable; Sample spiked is > 4X spike concentration (may also use this flag in place of negative numbers).
R1	Internal standard area exceeds the acceptance criteria
R2	Calibration verification exceeds the acceptance criteria.
S1	The Method of Standard Additions (MSA) has been performed on this sample.
T	Second-column or detector confirmation exceeded the SW-846 criteria of 40% RPD for this compound.
TIC	The compound is not included in the initial calibration curve. It is searched for qualitatively or as a Tentatively Identified Compound.
U	The analyte was not detected at or above the MDL or the RL, whichever is entered next to the "U" value.
W	Post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is less than 50% spike absorbance.

When the laboratory receives a sample that does not meet EPA requirements for sample collection, preservation or holding time, the laboratory is required to reject the samples. The client must be notified and asked whether the lab should proceed with analysis. Data from any samples that do not meet sample acceptance criteria (collection, preservation and holding time), must be flagged, or noted on a corrective action form or case narrative, or addressed on the Project Sample Inspection Form (PSIF) in an unambiguous manner clearly defining the nature and substance of the variation. NPDES samples from North Carolina that do not meet EPA requirements for sample collection, preservation or holding time are non-reportable for NPDES compliance monitoring.

Abbreviations

ND	Not Detected at or above the STL Pensacola reporting limit (RL)
NS	Not Submitted
NA	Not Applicable
MDL	STL Pensacola Method Detection Limit
RL	STL Pensacola Reporting Limit
NoMS	Not enough sample provided to prepare and/or analyze a method-required matrix spike (MS) and/or duplicate (MSD)

Florida Projects Inorganic/Organic

Refer to FL DEP 62-160.700(7); Table 7 Data Qualifier Codes. FL DEP Rule 62-160.670(1)(h) states that laboratories shall include the analytical result for each analysis with applicable data qualifiers. FL DEP Rule 62-160.700(7), Table 7 lists the FL DEP data qualifiers. FL DEP Rule 62-160.700(3), Table 3 lists the Florida sites which require data qualifiers.

AFCEE QAPP Projects

Refer to AFCEE QAPP for appropriate data qualifiers (AFCEE QAPP Version will be specified by client for the project).

Arizona DEQ Projects

Any qualified data submitted to Arizona DEQ (ADEQ) after January 1, 2001 must be designated using the Arizona Data Qualifiers as developed by the Arizona ELAC technical subcommittee. Refer to the ADEQ qualifier list.

CLP and CLP-like Projects

Refer to referenced CLP Statement of Work (SOW) for explanation of data qualifiers. CLP SOW to be followed must be specified to client.

3355 McLemore Drive • Pensacola, FL 32514 • Tel: 850 474 1001 • Fax: 850 478 2671 • www.stl-inc.com

STL Pensacola is a part of Severn Trent Laboratories, Inc.

STL PENSACOLA
Certifications, Memberships & Affiliations

Alabama *Department of Environmental Management, Laboratory ID No. 40150 (Drinking Water by Reciprocity with FL), expires 06/30/02*

Arizona *Department of Health Services, Lab ID No. AZ0589 (Hazardous Waste & Wastewater), expires 01/11/03*

Arkansas *Department of Pollution Control and Ecology, (No Laboratory ID No. assigned by state) (Environmental), expires 02/20/03*

California *Department of Health Services,* ***NELAP*** *Laboratory ID No. 01128CA (Hazardous Waste and Wastewater), expires 03/31/02*

Connecticut *Department of Health Services, Connecticut Lab Approval No. PH-0697 (D W, H W and Wastewater), expires 09/30/03*

Florida *DOH,* ***NELAP*** *Laboratory ID No. E81010 (Drinking Water, Hazardous Waste and Wastewater), expires 06/30/03*

Florida *DEP/DOH CompQAP # 980156*

Kansas *Department of Health & Environment,* ***NELAP*** *Laboratory ID No. E10253 (Wastewater and Hazardous Waste), expires 10/31/02*

Kentucky *NR&EPC, Laboratory ID No. 90043 (Drinking Water), expires 12/31/02.*

Louisiana *DEQ, LELAP,* ***NELAP*** *Laboratory ID No. 02075, Agency Interest ID 30748 (Environmental, expires 6/30/03)*

Maryland *DH&MH Laboratory ID No. 233 (Drinking Water by Reciprocity with Florida), expires 09/30/02*

Massachusetts *DEP, Laboratory ID No. M-FL094 (Wastewater), expires 06/30/03*

Michigan *Bureau of E&OccH, Laboratory ID No.9912 (Drinking Water by Reciprocity with Florida), expires 06/30/02*

New ***Hampshire*** *DES ELAP,* ***NELAP*** *Laboratory ID No. 250501 (Wastewater), expires 08/16/02*

New ***Jersey*** *DEP&E,* ***NELAP*** *Laboratory ID No. FL006 (Wastewater and Hazardous Waster), expires 06/30/02.*

New ***York State*** *Department of Health,* ***NELAP*** *Laboratory ID No. 11503 (WW and Solids/Hazardous Waste), expires 04/01/2003*

North Carolina *DENR, Laboratory ID No. 314 (Hazardous Waste and Wastewater), expires 12/31/02.*

North Dakota *DH&Consol Labs, Laboratory ID No. R-108 Wastewater and Hazardous Waste by Reciprocity with Florida), expires 06/30/02*

Oklahoma *Department of Environmental Quality, Laboratory ID No. 9810 (Hazardous Waste and Wastewater), expires 08/31/02*

Pennsylvania *Department of Environmental Resources,* ***NELAP*** *Laboratory ID No. 68-467 (Drinking Water & Wastewater), expires 12/01/02*

South Carolina *DH&EC, Laboratory ID No. 96026 (Wastewater & Solids/Hazardous Waste by Reciprocity with FL), expires 06/30/02*

Tennessee *Department of Health & Environment, Laboratory ID No. 02907 (Drinking Water), expires 08/03/04*

Virginia *Department of General Services, Laboratory ID No. 00008 (Drinking Water by Reciprocity with FL), expires 06/30/03.*

Washington *Department of Ecology, Laboratory ID No. C282 (Hazardous Waste and Wastewater), expires 09/14/02.*

West Virginia *DOE, Office of Water Resources, Laboratory ID No. 136 (Haz Waste and Wastewater), expires 04/30/02.*

American Industrial Hygiene Association ***(AIHA)*** *Accredited Laboratory, Laboratory ID No. 100704, expires April 1, 2004. Participant in AIHA sponsored Laboratory PAT Rounds*

EPA ICR *(Information Collection Rule) Approved Laboratory, Laboratory ID No. ICRFL031*

Naval Facilities Engineering Services Center ***(NFESC)****, expires July 5, 2002.*

United States Army Corps. of Engineers ***(USACE)****, MRD, expires July 5, 2002.*

STL Pensacola also has a foreign soil permit to accept soils from locations other than the continental United States. Permit No. S-37599

certlist\condcert.lst revised 07/13/02.

STL Pensacola
PROJECT SAMPLE INSPECTION FORM

SEVERN TRENT SERVICES

Lab Order #: C207017 Date Received: 02-Jul-02

1.	Was there a Chain of Custody?	(Yes)	No+		8.	Were samples checked for preservative? *(Check pH of all H_2O requiring preservative (STL-PN SOP 917) except VOA vials that require zero headspace)*+	Yes	No+	(N/A)
2.	Was Chain of Custody properly filled out and relinquished?	(Yes)	No+		9.	Is there sufficient volume for analysis requested?	(Yes)	No+	N/A *(Can)*
3.	Were samples received cold? (Criteria: 2° - 6°C: STL-SOP	(Yes)	No+	N/A	10.	Were samples received within Holding Time? (REFER TO STL-SOP 1040)	(Yes)	No+	
4.	Were all samples properly labeled and identified?	(Yes)	No+		11.	Is Headspace visible > ¼" in diameter in VOA vials?* If any headspace is evident, comment in out-of-control section.	Yes+	No	(N/A)
5.	Did samples require splitting or compositing♦? Req By: PM Client Other♦	Yes+	(No)		12.	If sent, were matrix spike bottles returned?	Yes	No+	(N/A)
6.	Were samples received in proper containers for analysis requested?	(Yes)	No+		13.	Was Project Manager notified of problems? (initials:_____)	Yes	No+	(N/A)
7.	Were all sample containers received intact?	(Yes)	No+						

Airbill Number(s): 1Z8781680 4385 8777

Shipped By: UPS

Cooler Number(s): Client

Shipping Charges: N/A

Cooler Weight(s): 51 #

Cooler Temp(s) (°C): 5° C
CCU1
(LIST THERMOMETER NUMBER(S) FOR VERIFICATION)

Out of Control Events and Inspection Comments:

(USE BACK OF PSIF FOR ADDITIONAL NOTES AND COMMENTS)

Inspected By: MHS **Date:** 7/2/02 **Logged By:** LMK **Date:** 02-Jul-02

♣ *Note all Out-of-Control and/or questionable events on Comment Section of this form. For holding times, the analytical department will flag immediate hold time samples(pH, Dissolved O_2, Residual CL) as out of hold time, therefore, these samples will not be documented on this PSIF.*

♦ *If Other, note who requested the splitting or compositing of samples on the Comment Section of this form. All volatile samples requested to be split or composited must be done in the Volatile Lab. Document: "Volatile sample values may be compromised due to sample splitting (compositing)"*

\+ *All preservatives for the State of North Carolina, the State of New York, and other requested samples are to be recorded on the sheet provided to record pH results (STL-SOP 938, section 2.2.9).*

* *According to EPA, ¼" of headspace is allowed in 40 ml vials requiring volatile analysis, however, STL makes it policy to record any headspace as out-of-control (STL-SOP 938, section 2.2.12).*

Pinnacle Laboratories, Inc.

Interlab Chain of Custody

Date: 7/1/02 Page: 1 of 1

Network Project Manager: Jacinta A. Tenorio

Pinnacle Laboratories, Inc.
2709-D Pan American Freeway, NE
Albuquerque, New Mexico 87107
(505) 344-3777 Fax (505) 344-4413

C207017

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID
SB-1@5'/206110-01	6/26/02	1430	NAQ	
SB-1@10'/206110-02		1300		
SB-1@15'/206110-03		1345		
SB-2@10'/206110-04	6/27/02	1130		
SB-3@10'/206110-05		1330		
SB-4@5'/206110-06		1500		
SB-4@10'/206110-07		1530		
MW-1@15'/206110-08	6/25/02	1100		
MW-1@30'/206110-09		1200		
MW-1@90'/206110-10		1400		

SAMPLE ID	Metals (8) RCRA	RCRA TCLP METALS	Metals-13 PP List	Metals-TAL (23 METALS)		TOX	TOC	Gen Chemistry: Chloride		Oil and Grease	Volatile Organics GC/MS (8260)	BOD	COD	PESTICIDES/PCB (608/8082)	Herbicides (615/8151)	PNA (8310)/8270 SIMS	8240 (TCLP 1311) ZHE		Base/Neutral Acid Compounds GC/MS (625/8270)	URANIUM (ICP-MS)	RADIUM 226+228	Gross Alpha/Beta	TO-14	NUMBER OF CONTAINERS
SB-1@5'/206110-01								X																
SB-1@10'/206110-02								X																
SB-1@15'/206110-03								X																
SB-2@10'/206110-04								X																
SB-3@10'/206110-05								X																
SB-4@5'/206110-06								X																
SB-4@10'/206110-07								X																
MW-1@15'/206110-08								X																
MW-1@30'/206110-09								X																
MW-1@90'/206110-10								X																

PROJECT INFORMATION		SAMPLE RECEIPT	
PROJECT #:	206110	Total Number of Containers	
PROJ. NAME:	RESP	Chain of Custody Seals	
QC LEVEL:	(STD.) IV	Received Intact?	
QC REQUIRED:	MS MSD BLANK	Received Good Cond./Cold	
TAT:	(STANDARD) RUSH!!	LAB NUMBER:	

DUE DATE:	7/12
RUSH SURCHARGE:	—
CLIENT DISCOUNT:	
SPECIAL CERTIFICATION REQUIRED: YES (NO)	

COMMENTS:

SAMPLES SENT TO:	
PENSACOLA - STL-FL	X
ESL - OR	
STL - CT	
ATEL - AZ	
ATEL - MARION	
ATEL - MELMORE	
BARRINGER	
ENVIRO TEST LABS	
WCAS	
WOHL	

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.
Signature: Francine Tenorio Time: 1700	Signature: Time:
Printed Name: Francine Tenorio Date: 7/1/02	Printed Name: Date:
Pinnacle Laboratories, Inc.	Company
RECEIVED BY: 1.	**RECEIVED BY: 2**
Signature: Linda L. Kitt Time: 1022	Signature: Time:
Printed Name: Linda L. Kitt Date: 7/2/02	Printed Name: Date:
Company STL-FL	Company

Pinnacle Laboratories Inc.

CHAIN OF CUSTODY

DATE: 6/28/02 PAGE: 1 OF ____

PLI Accession #: 206110

SHADED AREAS ARE FOR LAB USE ONLY.

PLEASE FILL THIS FORM IN COMPLETELY.

PROJECT MANAGER: Dave Henard

COMPANY: RESPEC
ADDRESS: 4775 Indian School NE Ste 300 ABQ, NM 87110
PHONE: 268-2661
FAX: 268-0040

BILL TO:
COMPANY:
ADDRESS:

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB I.D.	Petroleum Hydrocarbons (418.1) TRPH	(MOD.8015) Diesel/Direct Inject	(M8015) Gas/Purge & Trap	8021 (BTEX)/8015 (Gasoline) MTBE	8021 (BTEX) ☐MTBE ☐TMB ☐PCE	8021 (TCL)	8021 (EDX)	8021 (HALO)	8021 (CUST)	504.1 EDB ☐ / DBCP ☐	8260 (TCL) Volatile Organics	8260 (Full) Volatile Organics	8260 (CUST) Volatile Organics	8260 (Landfill) Volatile Organics	Pesticides/PCB (608/8081/8082)	Herbicides (615/8151)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Polynuclear Aromatics (610/8310/9270-SIMS)	General Chemistry: Chloride	Priority Pollutant Metals (13)	Target Analyte List Metals (23)	RCRA Metals (8)	RCRA Metals by TCLP (Method 1311)	Metals:	NUMBER OF CONTAINERS
SB-1 @ 5'	6/26	230	soil	01		X																	X						1
SB-1 @ 10'	6/26	100	soil	02		X																	X						1
SB-1 @ 15'	6/26	145	soil	03		X																	X						1
SB-2 @ 10'	6/27	1130	soil	04		X																	X						1
SB-3 @ 10'	6/27	130	soil	05		X																	X						1
SB-4 @ 5'	6/27	300	soil	06		X																	X						1
SB-4 @ 10'	6/27	330	soil	07		X																	X						1
MW-1 @ 15'	6/25	1100	soil	08		X																	X						1
MW-1 @ 30'	6/25	1200	soil	09		X																	X						1
MW-1 @ 90'	6/25	500	soil	10		X																	X						1

PROJECT INFORMATION

PROJ. NO.: 1349
PROJ. NAME: General Petroleum
P.O. NO.:
SHIPPED VIA:

SAMPLE RECEIPT

NO CONTAINERS	10
CUSTODY SEALS	(Y) N / NA
RECEIVED INTACT	YES
BLUE ICE/ICE	4.8 C

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

(RUSH) ☐24hr ☐48hr ☐72hr ☐1 WEEK (NORMAL) ☒

CERTIFICATION REQUIRED ☐NM ☐SDWA ☐OTHER

METHANOL PRESERVATION ☐

COMMENTS: FIXED FEE ☐

RELINQUISHED BY: 1.

Signature: Time: 10:00
Printed Name: Date: Austin Eldridge 6/28/02
Company: Respec
See reverse side (Force Majeure)

RECEIVED BY: 1.

Signature: Time: 10:00
Printed Name: Date: Christina Keleher 6/28
Company: Respec

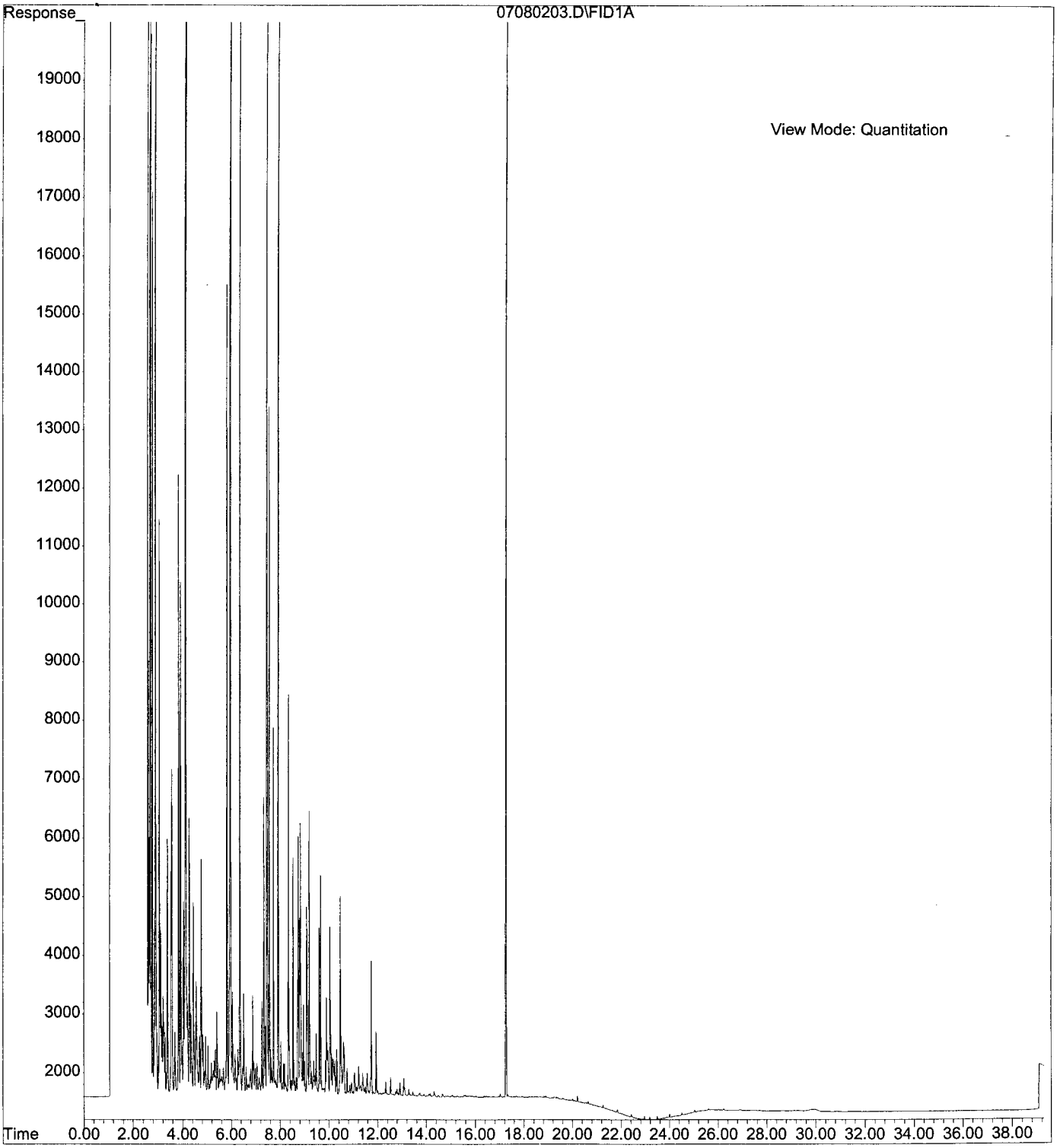
RELINQUISHED BY: 2.

Signature: Time: 1600
Printed Name: Date: Christina Keleher 6/28/02
Company: Respec

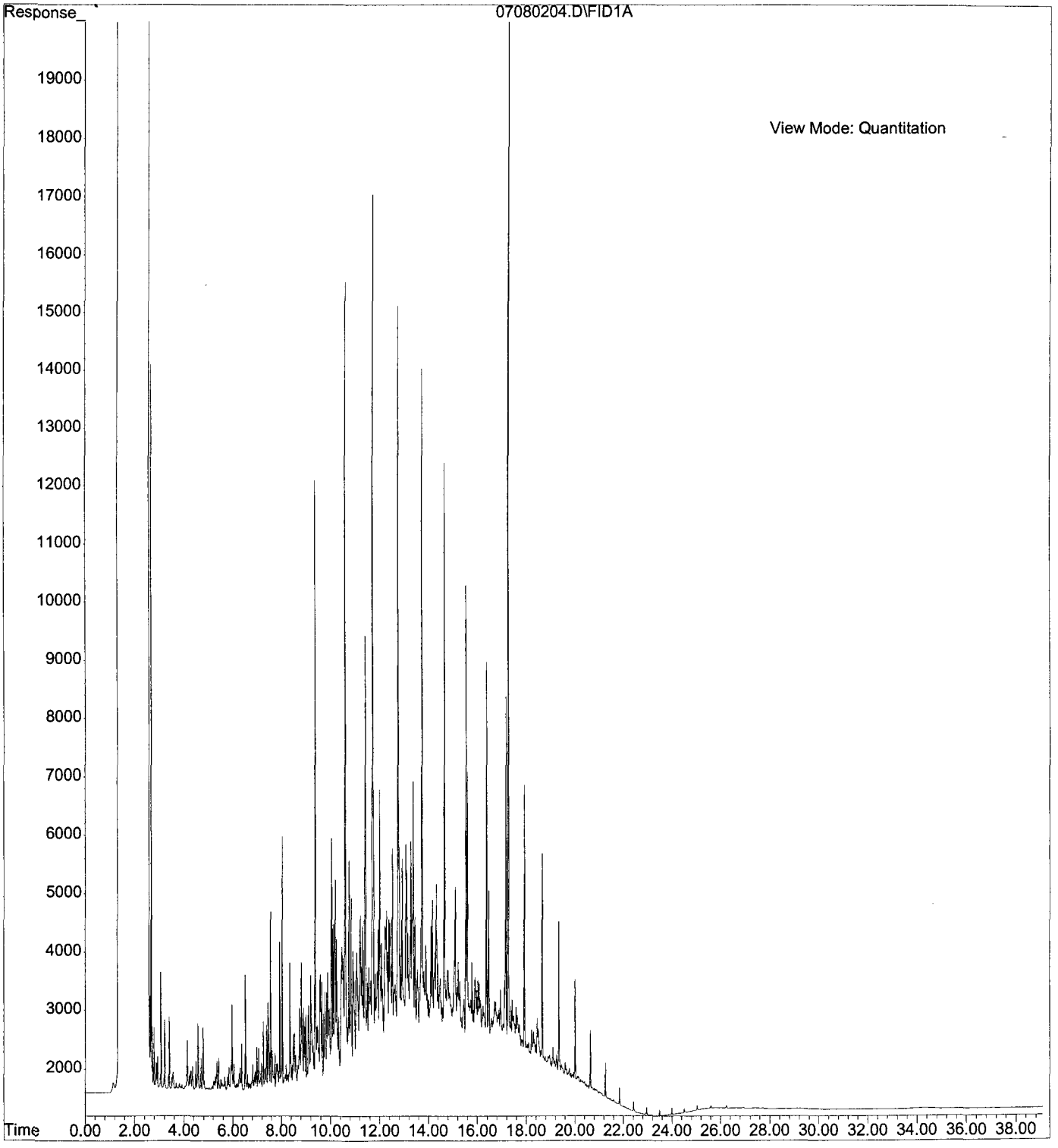
RECEIVED BY: (LAB) 2.

Signature: Time: 1600
Printed Name: Date: Francine Tarvin 6/28/02
Pinnacle Laboratories Inc.

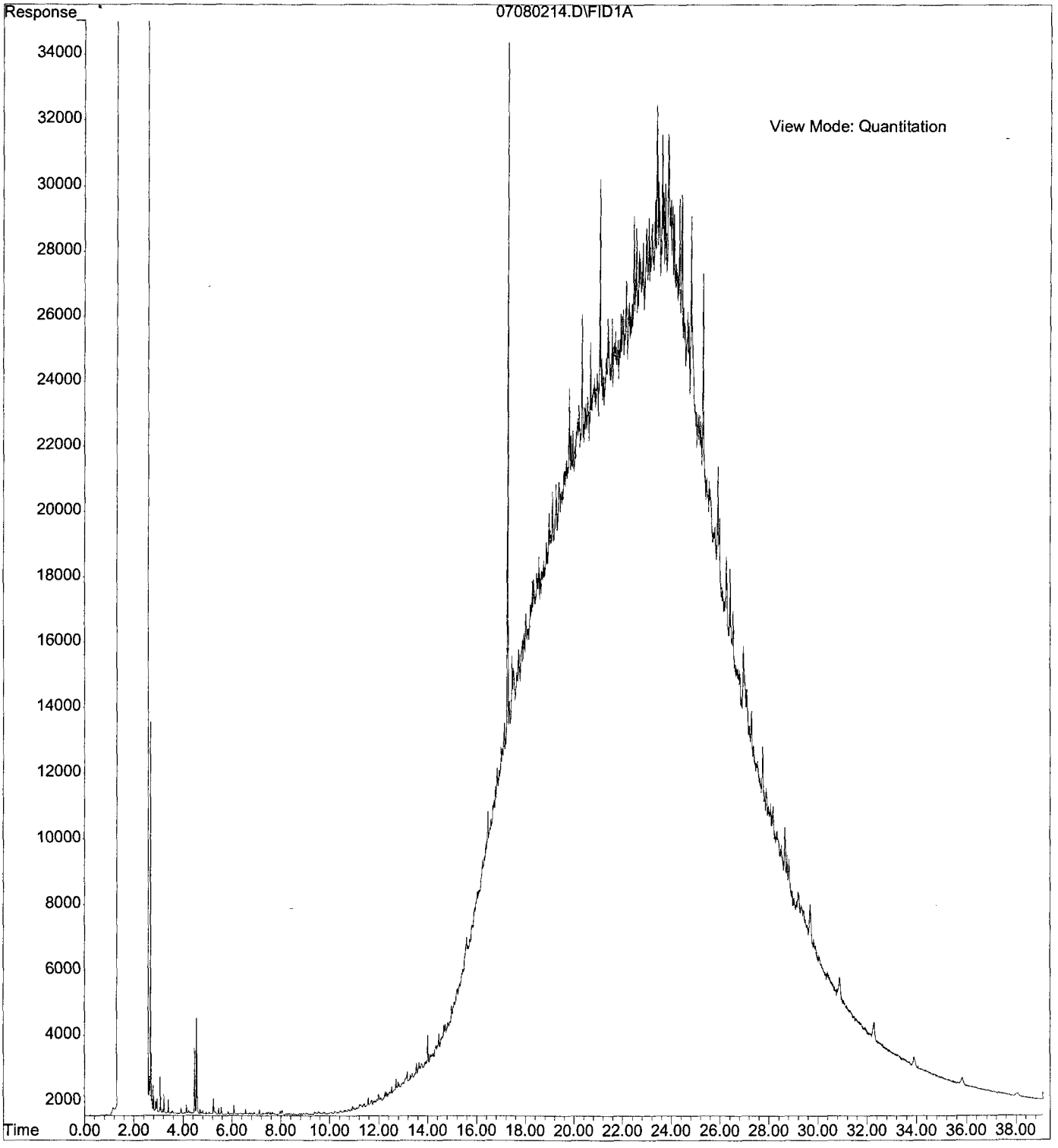
File : C:\HPCHEM\2\DATA\070802\07080203.D
Operator : ccm
Acquired : 8 Jul 2002 17:56 using AcqMethod NM0411F.M
Instrument : FID-1
Sample Name: gas ccv
Misc Info : 200 ug/ml GC4-55-10
Vial Number: 3



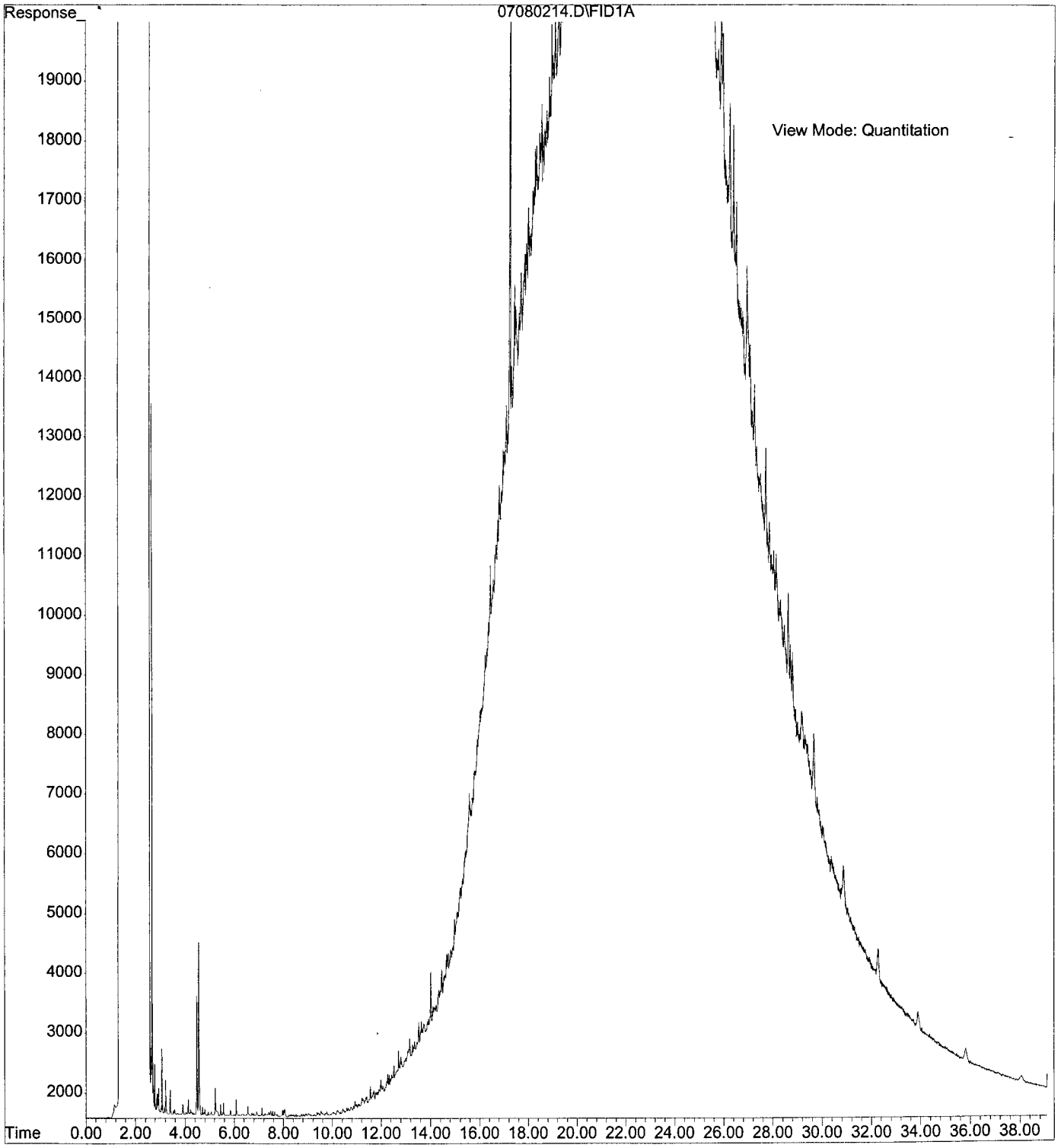
File : C:\HPCHEM\2\DATA\070802\07080204.D
Operator : ccm
Acquired : 8 Jul 2002 18:55 using AcqMethod NM0411F.M
Instrument : FID-1
Sample Name: dsl ccv
Misc Info : 200 ug/ml GC4-51-17
Vial Number: 4



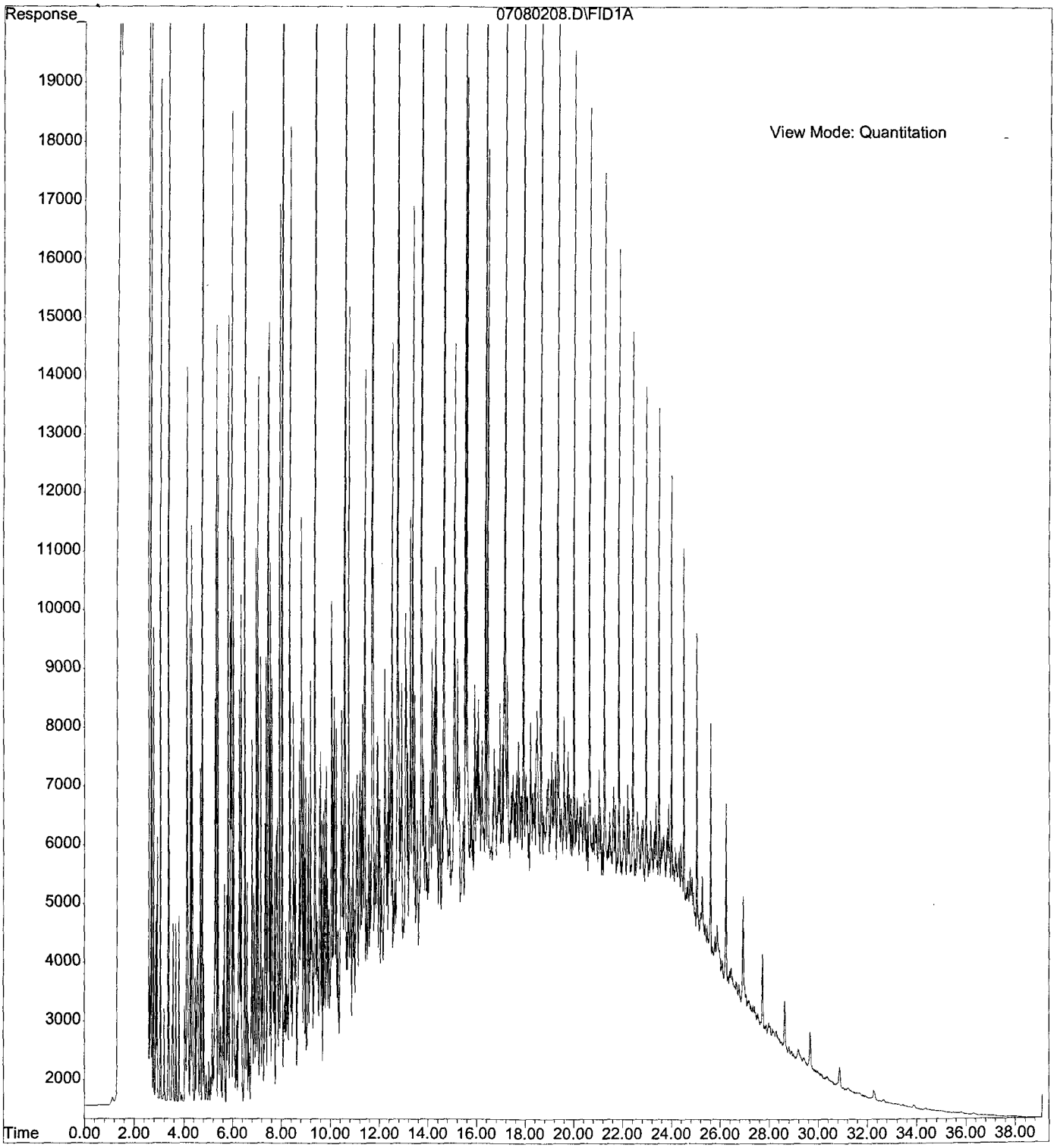
File : C:\HPCHEM\2\DATA\070802\07080214.D
Operator : ccm
Acquired : 9 Jul 2002 4:19 using AcqMethod NM0411F.M
Instrument : FID-1
Sample Name: 206110-01
Misc Info : Fox lot #040451
Vial Number: 14



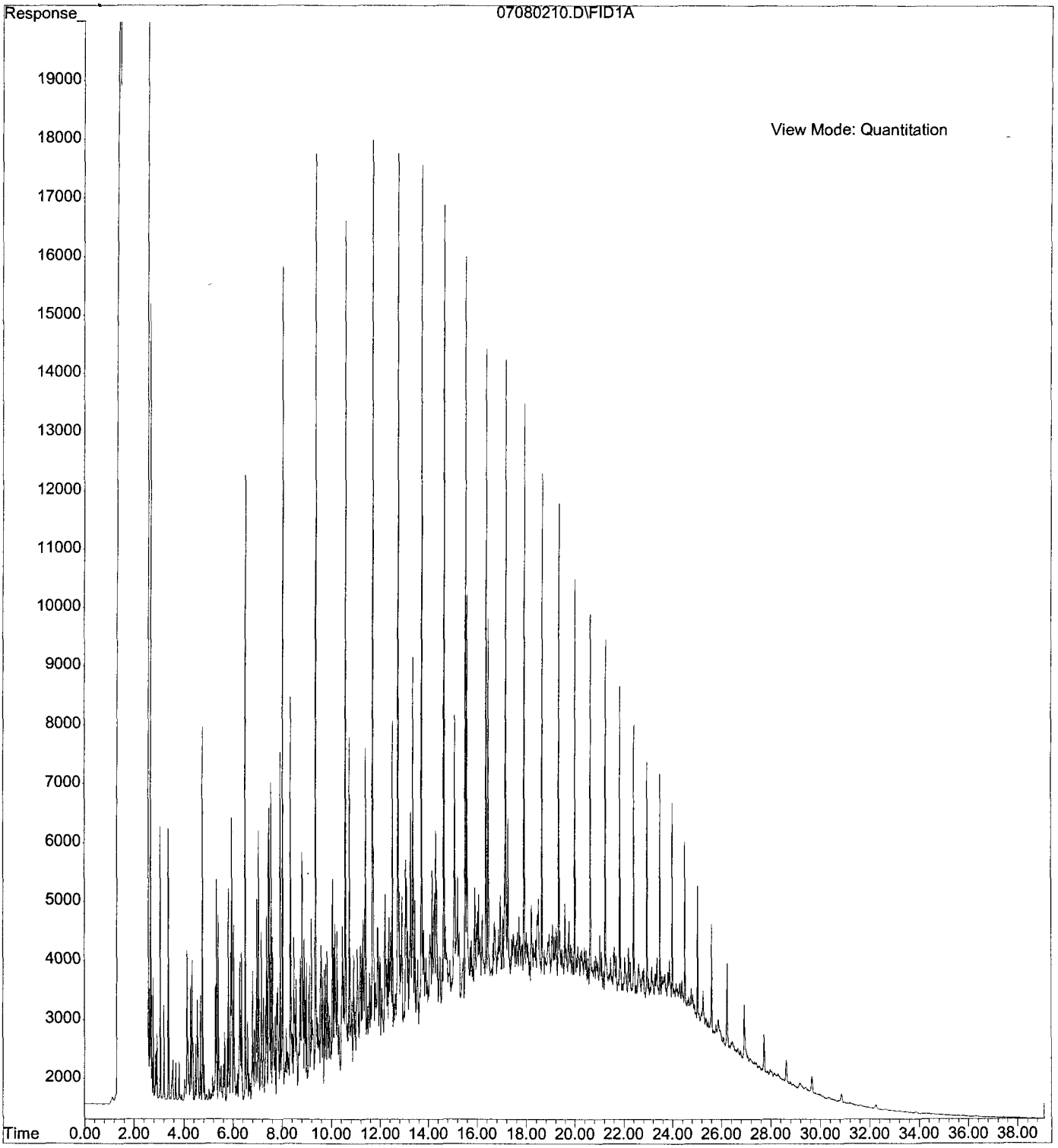
File : C:\HPCHEM\2\DATA\070802\07080214.D
Operator : ccm
Acquired : 9 Jul 2002 4:19 using AcqMethod NM0411F.M
Instrument : FID-1
Sample Name: 206110-01
Misc Info : Fox lot #040451
Vial Number: 14



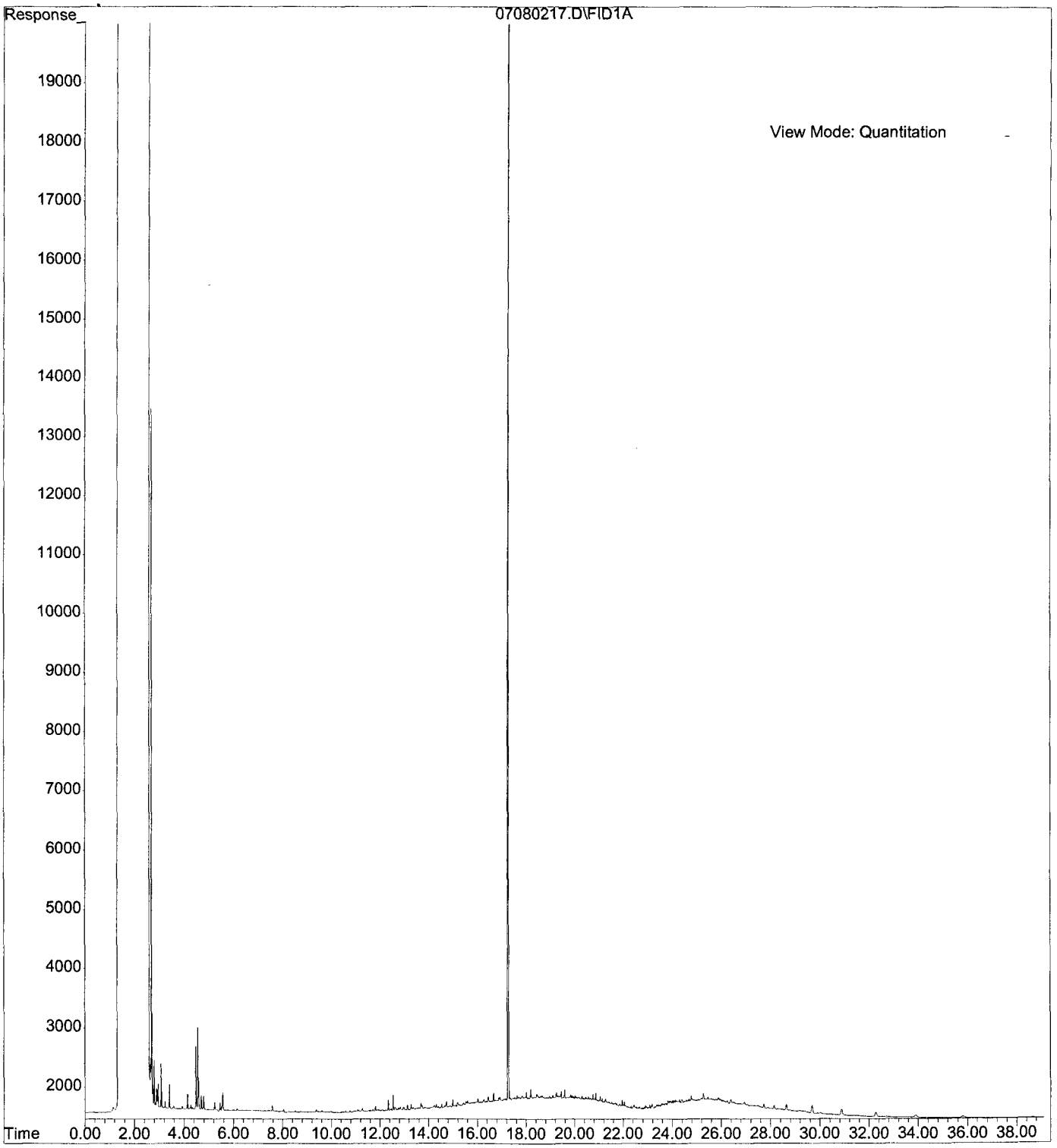
File : C:\HPCHEM\2\DATA\070802\07080208.D
Operator : ccm
Acquired : 8 Jul 2002 22:42 using AcqMethod NM0411F.M
Instrument : FID-1
Sample Name: 206110-02 (10x)
Misc Info :
Vial Number: 8



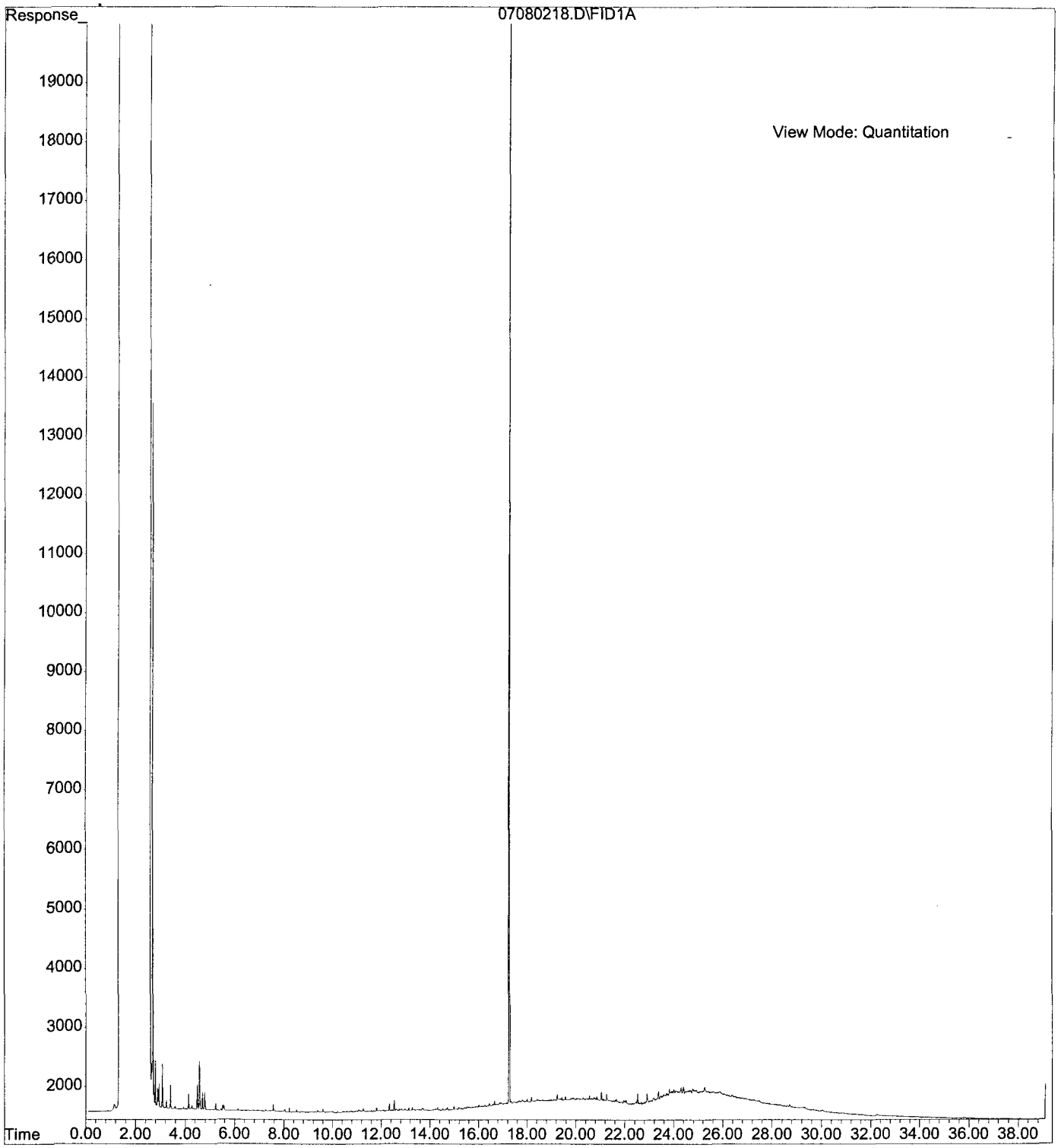
File : C:\HPCHEM\2\DATA\070802\07080210.D
Operator : ccm
Acquired : 9 Jul 2002 00:34 using AcqMethod NM0411F.M
Instrument : FID-1
Sample Name: 206110-03 (10x)
Misc Info :
Vial Number: 10



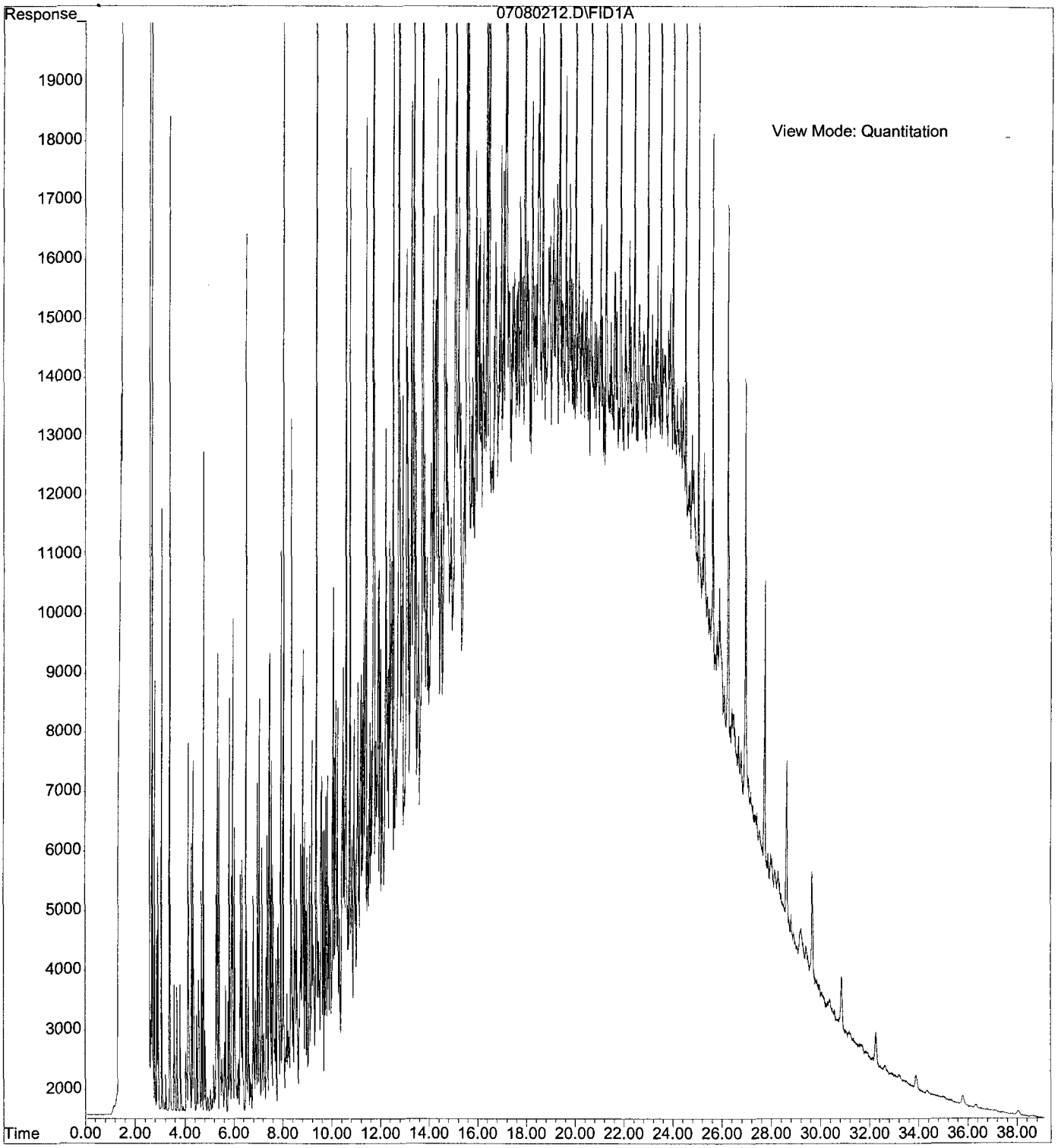
File : C:\HPCHEM\2\DATA\070802\07080217.D
Operator : ccm
Acquired : 9 Jul 2002 7:08 using AcqMethod NM0411F.M
Instrument : FID-1
Sample Name: 206110-04
Misc Info :
Vial Number: 17



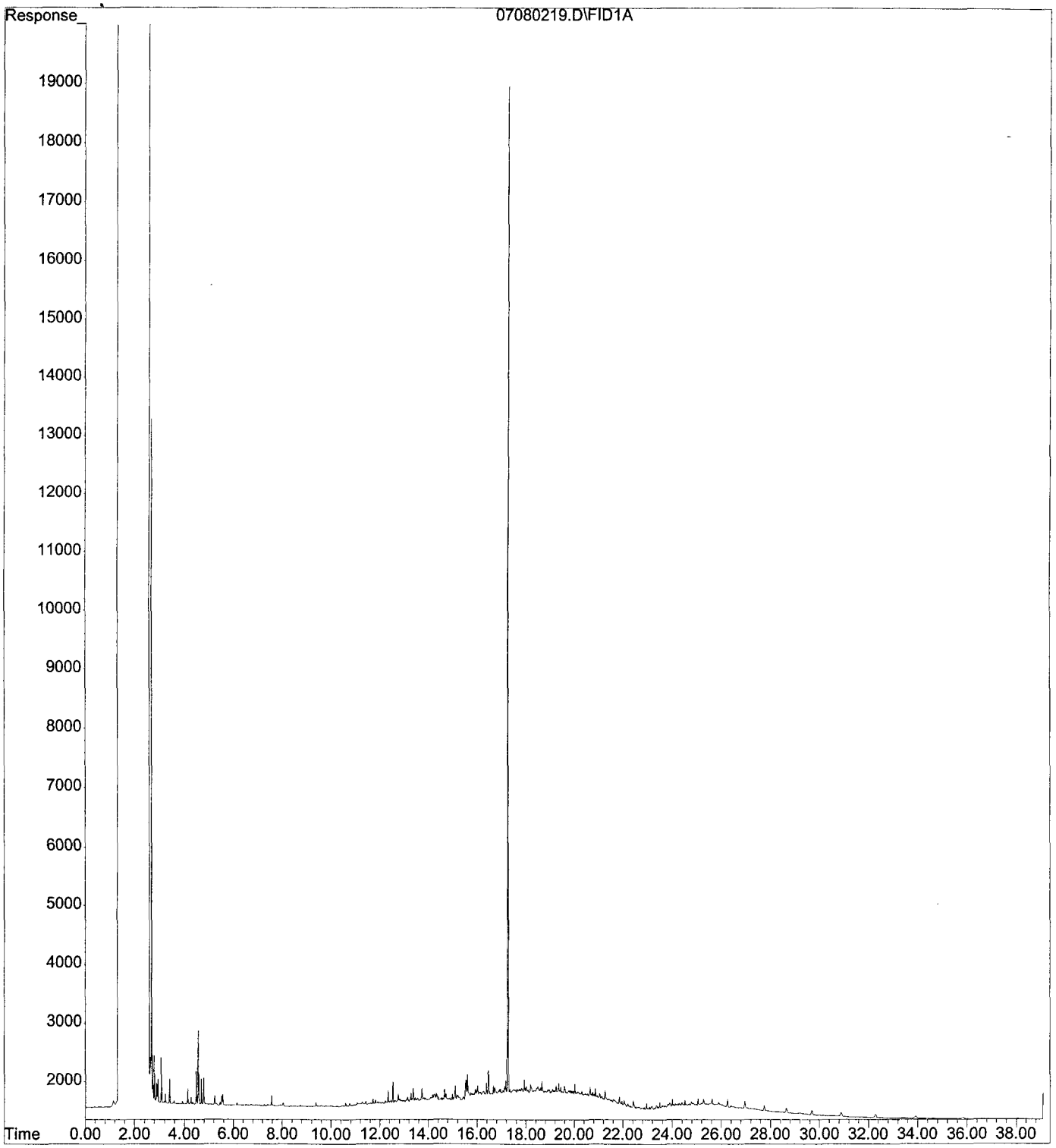
File : C:\HPCHEM\2\DATA\070802\07080218.D
Operator : ccm
Acquired : 9 Jul 2002 8:03 using AcqMethod NM0411F.M
Instrument : FID-1
Sample Name: 206110-05
Misc Info :
Vial Number: 18



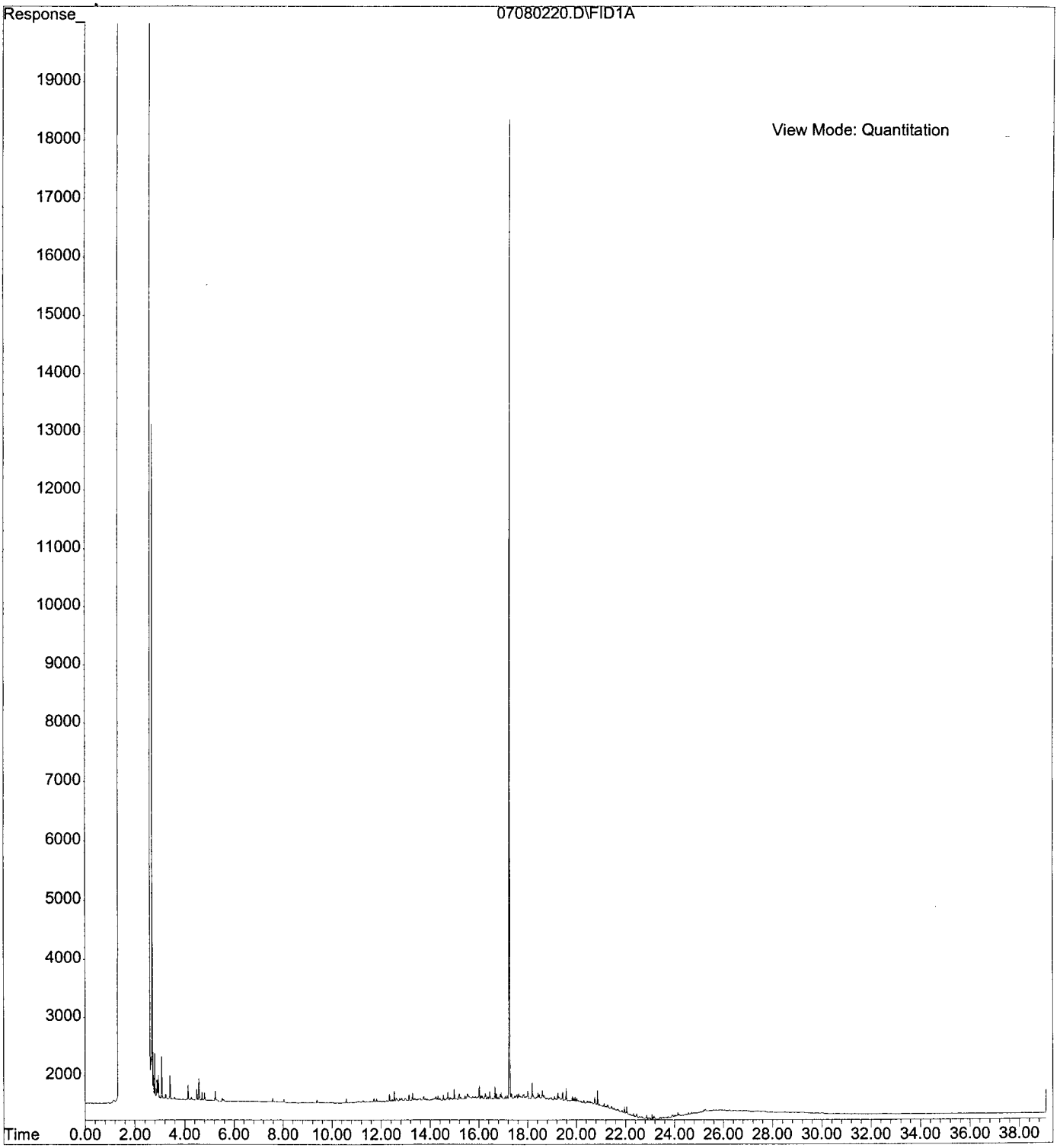
File : C:\HPCHEM\2\DATA\070802\07080212.D
Operator : ccm
Acquired : 9 Jul 2002 2:26 using AcqMethod NM0411F.M
Instrument : FID-1
Sample Name: 206110-06 (20x)
Misc Info :
Vial Number: 12



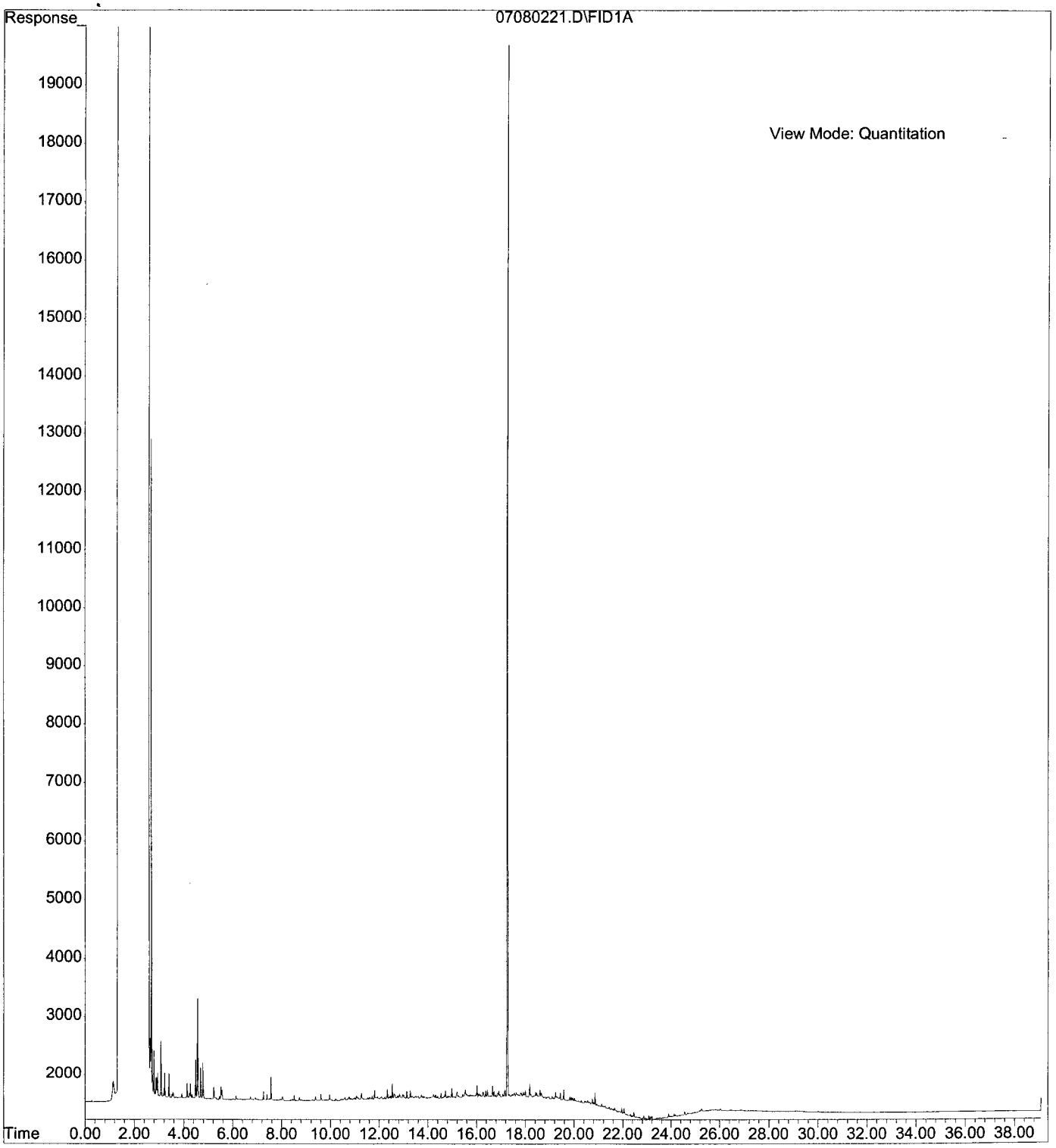
File : C:\HPCHEM\2\DATA\070802\07080219.D
Operator : ccm
Acquired : 9 Jul 2002 8:59 using AcqMethod NM0411F.M
Instrument : FID-1
Sample Name: 206110-07
Misc Info :
Vial Number: 19



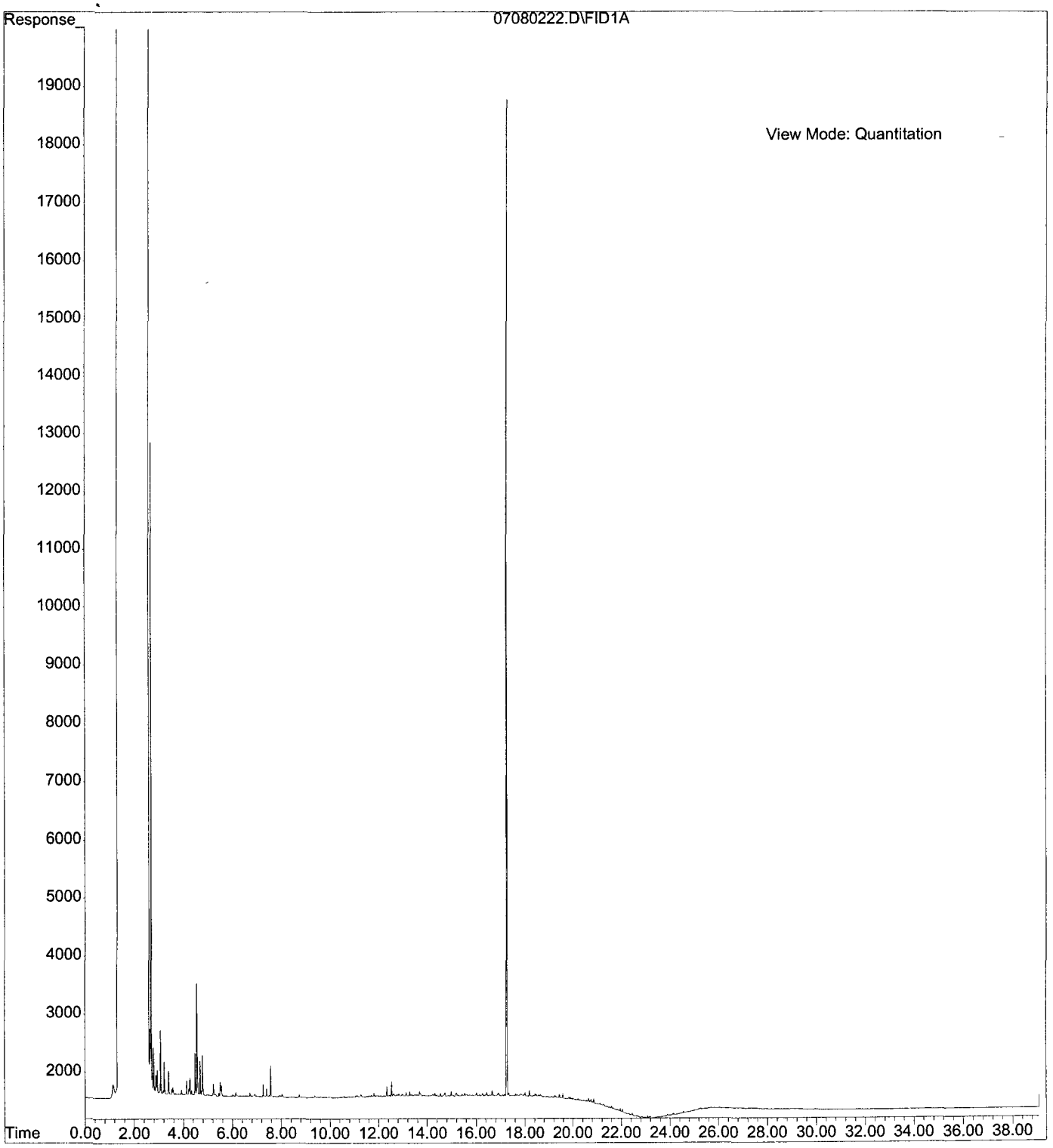
File : C:\HPCHEM\2\DATA\070802\07080220.D
Operator : ccm
Acquired : 9 Jul 2002 9:55 using AcqMethod NM0411F.M
Instrument : FID-1
Sample Name: 206110-08
Misc Info :
Vial Number: 20



File : C:\HPCHEM\2\DATA\070802\07080221.D
Operator : ccm
Acquired : 9 Jul 2002 10:51 using AcqMethod NM0411F.M
Instrument : FID-1
Sample Name: 206110-09
Misc Info :
Vial Number: 21



File : C:\HPCHEM\2\DATA\070802\07080222.D
Operator : ccm
Acquired : 9 Jul 2002 11:47 using AcqMethod NM0411F.M
Instrument : FID-1
Sample Name: 206110-10
Misc Info :
Vial Number: 22



PINNACLE LABORATORIES

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Pinnacle Lab ID number **207015**
July 19, 2002

NMOCD
1220 SOUTH ST. FRANCIS DR.
SANTA FE, NM 87505

Project Name EUNICE-OCD
Project Number EUNICE-OCD

Attention: RESPEC

On 07/05/02 Pinnacle Laboratories, Inc., (ADHS License No. AZ0592 pending), received a request to analyze **non-aq** samples. The samples were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

EPA method 8015 analyses were performed by Pinnacle Laboratories, Inc. Albuquerque, NM.

All other analyses were performed by Severn Trent Laboratories, Inc. Pensacola, FL.

If you have any questions or comments, please do not hesitate to contact us at (505)344-3777.

H. Mitchell Rubenstein, Ph. D.
General Manager

MR: jt

Enclosure

PINNACLE LABORATORIES

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CLIENT	: NMOCD	PINNACLE ID	: 207015
PROJECT #	: EUNICE-OCD	DATE RECEIVED	: 07/05/02
PROJECT NAME	: EUNICE-OCD	REPORT DATE	: 07/19/02

PINNACLE ID #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
207015 - 01	MW-2@90'	NON-AQ	06/30/02
207015 - 02	SB-10@3'	NON-AQ	06/30/02
207015 - 03	SB-10@5'	NON-AQ	06/30/02
207015 - 04	SB-10@10'	NON-AQ	06/30/02
207015 - 05	MW-3@15'	NON-AQ	07/01/02
207015 - 06	MW-3@35'	NON-AQ	07/01/02
207015 - 07	MW-3@90'	NON-AQ	07/02/02
207015 - 08	SB-11@5'	NON-AQ	07/02/02
207015 - 09	SB-11@8'	NON-AQ	07/02/02
207015 - 10	SB-12@5'	NON-AQ	07/02/02
207015 - 11	SB-6@5'	NON-AQ	06/28/02
207015 - 12	SB-6@10'	NON-AQ	06/28/02
207015 - 13	SB-7@5'	NON-AQ	06/29/02
207015 - 14	SB-7@10'	NON-AQ	06/29/02
207015 - 15	SB-8@5'	NON-AQ	06/29/02
207015 - 16	SB-8@10'	NON-AQ	06/29/02
207015 - 17	SB-9@5'	NON-AQ	06/30/02
207015 - 18	SB-9@10'	NON-AQ	06/30/02
207015 - 19	MW-2@15'	NON-AQ	06/30/02
207015 - 20	MW-2@40'	NON-AQ	06/30/02
207015 - 21	SB-12@10'	NON-AQ	07/02/02

PINNACLE LABORATORIES

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GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8015 MODIFIED (DIRECT INJECT)
CLIENT : NMOCD
PROJECT # : EUNICE-OCD
PROJECT NAME : EUNICE-OCD

PINNACLE I.D.: 207015

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	MW-2@90'	NON-AQ	06/30/02	07/08/02	07/17/02	1
02	SB-10@3'	NON-AQ	06/30/02	07/08/02	07/19/02	10
03	SB-10@5'	NON-AQ	06/30/02	07/08/02	07/17/02	1

PARAMETER	DET. LIMIT	UNITS	MW-2@90'	SB-10@3'	SB-10@5'
FUEL HYDROCARBONS, C7-C10	10	MG/KG	< 10	< 100	< 10
FUEL HYDROCARBONS, C10-C22	10	**MG/KG**	< 10	**3500**	**110**
FUEL HYDROCARBONS, C22-C36	10	**MG/KG**	< 10	**3100**	**140**
CALCULATED SUM:				**6600**	**250**
SURROGATE:					
O-TERPHENYL (%)			101	154 **	87
SURROGATE LIMITS	(66 - 151)				

CHEMIST NOTES:
** Surrogate high due to matrix interference.

PINNACLE LABORATORIES

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GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8015 MODIFIED (DIRECT INJECT)
CLIENT : NMOCD
PROJECT # : EUNICE-OCD
PROJECT NAME : EUNICE-OCD

PINNACLE I.D.: 207015

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
04	SB-10@10'	NON-AQ	06/30/02	07/08/02	07/17/02	1
05	MW-3@15'	NON-AQ	07/01/02	07/08/02	07/17/02	1
06	MW-3@35'	NON-AQ	07/01/02	07/08/02	07/18/02	1

PARAMETER	DET. LIMIT	UNITS	SB-10@10'	MW-3@15'	MW-3@35'
FUEL HYDROCARBONS, C7-C10	10	MG/KG	< 10	< 10	< 10
FUEL HYDROCARBONS, C10-C22	10	**MG/KG**	**73**	< 10	< 10
FUEL HYDROCARBONS, C22-C36	10	**MG/KG**	**91**	< 10	< 10
CALCULATED SUM:			**164**		
SURROGATE:					
O-TERPHENYL (%)			88	85	99
SURROGATE LIMITS	(66 - 151)				

CHEMIST NOTES:
N/A

PINNACLE LABORATORIES

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GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8015 MODIFIED (DIRECT INJECT)
CLIENT : NMOCD PINNACLE I.D.: 207015
PROJECT # : EUNICE-OCD
PROJECT NAME : EUNICE-OCD

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
07	MW-3@90'	NON-AQ	07/02/02	07/08/02	07/18/02	1
08	SB-11@5'	NON-AQ	07/02/02	07/08/02	07/18/02	1
09	SB-11@8'	NON-AQ	07/02/02	07/08/02	07/18/02	1

PARAMETER	DET. LIMIT	UNITS	MW-3@90'	SB-11@5'	SB-11@8'
FUEL HYDROCARBONS, C7-C10	10	MG/KG	< 10	< 10	< 10
FUEL HYDROCARBONS, C10-C22	10	MG/KG	< 10	< 10	< 10
FUEL HYDROCARBONS, C22-C36	10	MG/KG	< 10	< 10	< 10
CALCULATED SUM:					
SURROGATE:					
O-TERPHENYL (%)			102	61 *	100
SURROGATE LIMITS	(66 - 151)				

CHEMIST NOTES:
* Surrogate low due to matrix interference.

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GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8015 MODIFIED (DIRECT INJECT)
CLIENT : NMOCD
PROJECT # : EUNICE-OCD
PROJECT NAME : EUNICE-OCD

PINNACLE I.D.: 207015

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
10	SB-12@5'	NON-AQ	07/02/02	07/08/02	07/18/02	1
11	SB-6@5'	NON-AQ	06/28/02	07/08/02	07/18/02	1
12	SB-6@10'	NON-AQ	06/28/02	07/08/02	07/18/02	1

PARAMETER	DET. LIMIT	UNITS	SB-12@5'	SB-6@5'	SB-6@10'
FUEL HYDROCARBONS, C7-C10	10	MG/KG	< 10	< 10	< 10
FUEL HYDROCARBONS, C10-C22	10	MG/KG	< 10	< 10	< 10
FUEL HYDROCARBONS, C22-C36	10	MG/KG	< 10	< 10	< 10
CALCULATED SUM:					
SURROGATE:					
O-TERPHENYL (%)			70	107	105
SURROGATE LIMITS	(66 - 151)				

CHEMIST NOTES:

PINNACLE LABORATORIES

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GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8015 MODIFIED (DIRECT INJECT)
CLIENT : NMOCD
PROJECT # : EUNICE-OCD
PROJECT NAME : EUNICE-OCD

PINNACLE I.D.: 207015

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
13	SB-7@5'	NON-AQ	06/29/02	07/08/02	07/18/02	1
14	SB-7@10'	NON-AQ	06/29/02	07/08/02	07/18/02	1
15	SB-8@5'	NON-AQ	06/29/02	07/08/02	07/18/02	1

PARAMETER	DET. LIMIT	UNITS	SB-7@5'	SB-7@10'	SB-8@5'
FUEL HYDROCARBONS, C7-C10	10	MG/KG	< 10	< 10	< 10
FUEL HYDROCARBONS, C10-C22	10	MG/KG	< 10	< 10	< 10
FUEL HYDROCARBONS, C22-C36	10	MG/KG	< 10	< 10	< 10
CALCULATED SUM:					
SURROGATE:					
O-TERPHENYL (%)			100	106	89
SURROGATE LIMITS	(66 - 151)				

CHEMIST NOTES:
N/A

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GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8015 MODIFIED (DIRECT INJECT)
CLIENT : NMOCD PINNACLE I.D.: 207015
PROJECT # : EUNICE-OCD
PROJECT NAME : EUNICE-OCD

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
16	SB-8@10'	NON-AQ	06/29/02	07/08/02	07/18/02	1
17	SB-9@5'	NON-AQ	06/30/02	07/08/02	07/18/02	1
18	SB-9@10'	NON-AQ	06/30/02	07/08/02	07/18/02	1

PARAMETER	DET. LIMIT	UNITS	SB-8@10'	SB-9@5'	SB-9@10'
FUEL HYDROCARBONS, C7-C10	10	MG/KG	< 10	< 10	< 10
FUEL HYDROCARBONS, C10-C22	10	MG/KG	< 10	< 10	< 10
FUEL HYDROCARBONS, C22-C36	10	MG/KG	< 10	< 10	< 10
CALCULATED SUM:					
SURROGATE:					
O-TERPHENYL (%)			84	100	85
SURROGATE LIMITS	(66 - 151)				

CHEMIST NOTES:

PINNACLE LABORATORIES

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GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8015 MODIFIED (DIRECT INJECT)
CLIENT : NMOCD PINNACLE I.D.: 207015
PROJECT # : EUNICE-OCD
PROJECT NAME : EUNICE-OCD

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
19	MW-2@15'	NON-AQ	06/30/02	07/08/02	07/18/02	10
20	MW-2@40'	NON-AQ	06/30/02	07/08/02	07/18/02	1
21	SB-12@10'	NON-AQ	07/02/02	07/08/02	07/19/02	1

PARAMETER	DET. LIMIT	UNITS	MW-2@15'	MW-2@40'	SB-12@10'
FUEL HYDROCARBONS, C7-C10	10	MG/KG	< 100	< 10	< 10
FUEL HYDROCARBONS, C10-C22	10	**MG/KG**	**610**	< 10	< 10
FUEL HYDROCARBONS, C22-C36	10	**MG/KG**	**630**	**11 PCO**	< 10
CALCULATED SUM:			**1240**	**11**	
SURROGATE:					
O-TERPHENYL (%)			146	102	99
SURROGATE LIMITS	(66 - 151)				

CHEMIST NOTES:
PCO = Possible carry over, the sample will be reanalyzed ASAP.

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GAS CHROMATOGRAPHY RESULTS
REAGENT BLANK

TEST	: EPA 8015 MODIFIED (DIRECT INJECT)	PINNACLE I.D.	: 207015
BLANK I.D.	: 070802(1)	DATE EXTRACTED	: 07/08/02
CLIENT	: NMOCD	DATE ANALYZED	: 07/17/02
PROJECT #	: EUNICE-OCD	SAMPLE MATRIX	: NON-AQ
PROJECT NAME	: EUNICE-OCD		

PARAMETER	UNITS	
FUEL HYDROCARBONS, C7-C10	MG/KG	< 10
FUEL HYDROCARBONS, C10-C22	MG/KG	< 10
FUEL HYDROCARBONS, C22-C36	MG/KG	< 10
SURROGATE:		
O-TERPHENYL (%)		96
SURROGATE LIMITS	(80 - 151)	

CHEMIST NOTES:
N/A

PINNACLE LABORATORIES

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GAS CHROMATOGRAPHY RESULTS
REAGENT BLANK

TEST	: EPA 8015 MODIFIED (DIRECT INJECT)	PINNACLE I.D.	: 207015
BLANK I.D.	: 070802(2)	DATE EXTRACTED	: 07/08/02
CLIENT	: NMOCD	DATE ANALYZED	: 07/18/02
PROJECT #	: EUNICE-OCD	SAMPLE MATRIX	: NON-AQ
PROJECT NAME	: EUNICE-OCD		

PARAMETER	UNITS	
FUEL HYDROCARBONS, C7-C10	MG/KG	< 10
FUEL HYDROCARBONS, C10-C22	MG/KG	< 10
FUEL HYDROCARBONS, C22-C36	MG/KG	< 10

SURROGATE:		
O-TERPHENYL (%)		97
SURROGATE LIMITS	(80 - 151)	

CHEMIST NOTES:
N/A

PINNACLE LABORATORIES

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GAS CHROMATOGRAPHY QUALITY CONTROL
LCS/LCSD

TEST	: EPA 8015 MODIFIED (DIRECT INJECT)	PINNACLE I.D.	: 207015
BATCH #	: 070802(1)	DATE EXTRACTED	: 07/08/02
CLIENT	: NMOCD	DATE ANALYZED	: 07/19/02
PROJECT #	: EUNICE-OCD	SAMPLE MATRIX	: NON-AQ
PROJECT NAME	: EUNICE-OCD	UNITS	: MG/KG

PARAMETER	SAMPLE RESULT	CONC SPIKE		SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
FUEL HYDROCARBONS	<10	400	*	470	118	503	126	7	(56 - 148)	20

CHEMIST NOTES:
* Spike concentrated due to evaporation in vial.
LCS using dsl crv spike extracted 07/19 and analyzed to confirm.

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative Percent Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

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GAS CHROMATOGRAPHY QUALITY CONTROL
LCS/LCSD

TEST	: EPA 8015 MODIFIED (DIRECT INJECT)	PINNACLE I.D.	: 207015
BATCH #	: 070802(2)	DATE EXRACTED	: 07/08/02
CLIENT	: NMOCD	DATE ANALYZED	: 07/18/02
PROJECT #	: EUNICE-OCD	SAMPLE MATRIX	: NON-AQ
PROJECT NAME	: EUNICE-OCD	UNITS	:

PARAMETER	SAMPLE RESULT	CONC SPIKE		SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
FUEL HYDROCARBONS	<10	400	*	452	113	455	114	1	(56 - 148)	20

CHEMIST NOTES:
* Spike concentrated due to evaporation in vial.
LCS using dsl crv spike extracted 07/19 and analyzed to confirm.

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative Percent Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

SEVERN TRENT SERVICES

STL Pensacola

LOG NO: C2-07182
Received: 10 JUL 02
Reported: 18 JUL 02

Ms. Jacinta Tenorio
Pinnacle Laboratories
2709-D Pan American Freeway Northeast
Albuquerque, NM 87107

Client PO. No.: 207015

Project: 207015,RESPEC-OCD
Sampled By: Client
Code: 090220718

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
07182-1	MW-2@90'/207015/01	06-30-02/13:30
07182-2	SB-10@3'/207015/02	06-30-02/14:00
07182-3	SB-10@5'/207015/03	06-30-02/14:30
07182-4	SB-10@10'/207015/04	06-30-02/15:00
07182-5	MW-3@15'/207015/05	07-01-02/14:30

PARAMETER	07182-1	07182-2	07182-3	07182-4	07182-5
Chloride (9251), mg/kg dw	440	2800	3500	1400	370
Dilution Factor	50	50	50	50	50
Analysis Date	07.11.02	07.11.02	07.11.02	07.11.02	07.11.02
Batch ID	CKS033S	CKS033S	CKS033S	CKS033S	CKS033S
Prep Method	SOP 885	SOP 885	SOP 885	SOP 885	SOP 885
Analyst	CR	CR	CR	CR	CR
Percent Solids	83	97	90	90	96

STL Pensacola

LOG NO: C2-07182
Received: 10 JUL 02
Reported: 18 JUL 02

Ms. Jacinta Tenorio
Pinnacle Laboratories
2709-D Pan American Freeway Northeast
Albuquerque, NM 87107

Client PO. No.: 207015

Project: 207015,RESPEC-OCD
Sampled By: Client
Code: 090220718

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
07182-6	MW-3@35/207015/06	07-01-02/15:30
07182-7	MW-3@90'/207015/07	07-02-02/10:30
07182-8	SB-11@5'/207015/08	07-02-02/13:00
07182-9	SB-11@8'/207015/09	07-02-02/13:30
07182-10	SB-12@5'/207015/10	07-02-02/14:30

PARAMETER	07182-6	07182-7	07182-8	07182-9	07182-10
Chloride (9251), mg/kg dw	190	530	300	800	1100
Dilution Factor	50	50	50	50	50
Analysis Date	07.11.02	07.11.02	07.11.02	07.11.02	07.11.02
Batch ID	CKS033S	CKS033S	CKS033S	CKS033S	CKS033S
Prep Method	SOP 885	SOP 885	SOP 885	SOP 885	SOP 885
Analyst	CR	CR	CR	CR	CR
Percent Solids	95	85	92	86	92

STL Pensacola

LOG NO: C2-07182
Received: 10 JUL 02
Reported: 18 JUL 02

Ms. Jacinta Tenorio
Pinnacle Laboratories
2709-D Pan American Freeway Northeast
Albuquerque, NM 87107

Client PO. No.: 207015

Project: 207015,RESPEC-OCD
Sampled By: Client
Code: 090220718

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
07182-11	SB-6@5'/207015/11	06-28-02/10:00
07182-12	SB-6@10'/207015/12	06-28-02/10:30
07182-13	SB-7@5'/207015/13	06-29-02/11:00
07182-14	SB-7@10'/207015/14	06-29-02/11:30
07182-15	SB-8@5'/207015/15	06-29-02/12:30

PARAMETER	07182-11	07182-12	07182-13	07182-14	07182-15
Chloride (9251), mg/kg dw	1000	2900	210	300	750
Dilution Factor	50	50	50	50	50
Analysis Date	07.11.02	07.11.02	07.11.02	07.11.02	07.11.02
Batch ID	CKS034S	CKS034S	CKS034S	CKS034S	CKS034S
Prep Method	SOP 885	SOP 885	SOP 885	SOP 885	SOP 885
Analyst	CR	CR	CR	CR	CR
Percent Solids	84	83	83	76	89

SEVERN TRENT SERVICES

STL Pensacola
LOG NO: C2-07182
Received: 10 JUL 02
Reported: 18 JUL 02

Ms. Jacinta Tenorio
Pinnacle Laboratories
2709-D Pan American Freeway Northeast
Albuquerque, NM 87107

Client PO. No.: 207015

Project: 207015,RESPEC-OCD
Sampled By: Client
Code: 090220718

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
07182-16	SB-8@10'/207015/16	06-29-02/13:00
07182-17	SB-9@5'/207015/17	06-30-02/08:30
07182-18	SB-9@10'/207015/18	06-30-02/09:00
07182-19	MW-2@15'/207015/19	06-30-02/10:00
07182-20	MW-2@40'/207015/20	06-30-02/11:00

PARAMETER	07182-16	07182-17	07182-18	07182-19	07182-20
Chloride (9251), mg/kg dw	300	1100	380	340	350
Dilution Factor	50	50	50	50	50
Analysis Date	07.11.02	07.11.02	07.11.02	07.11.02	07.11.02
Batch ID	CKS034S	CKS034S	CKS034S	CKS034S	CKS034S
Prep Method	SOP 885	SOP 885	SOP 885	SOP 885	SOP 885
Analyst	CR	CR	CR	CR	CR
Percent Solids	94	96	85	95	96

STL Pensacola

LOG NO: C2-07182
Received: 10 JUL 02
Reported: 18 JUL 02

Ms. Jacinta Tenorio
Pinnacle Laboratories
2709-D Pan American Freeway Northeast
Albuquerque, NM 87107

Client PO. No.: 207015

Project: 207015,RESPEC-OCD
Sampled By: Client
Code: 090220718

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
07182-21	SB-12@10'/207015/21	07-02-02/15:00

PARAMETER	07182-21
Chloride (9251), mg/kg dw	1600
Dilution Factor	50
Analysis Date	07.11.02
Batch ID	CKS034S
Prep Method	SOP 885
Analyst	CR
Percent Solids	94

SEVERN TRENT SERVICES

STL Pensacola

LOG NO: C2-07182
Received: 10 JUL 02
Reported: 18 JUL 02

Ms. Jacinta Tenorio
Pinnacle Laboratories
2709-D Pan American Freeway Northeast
Albuquerque, NM 87107

Client PO. No.: 207015

Project: 207015,RESPEC-OCD
Sampled By: Client
Code: 090220718

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
07182-22	Method Blank	
07182-23	Lab Control Standard % Recovery	
07182-24	Matrix Spike % Recovery	
07182-25	Matrix Spike Duplicate % Recovery	
07182-26	Method Blank	

PARAMETER	07182-22	07182-23	07182-24	07182-25	07182-26
Chloride (9251), mg/kg dw	<100	103 %	113 %	114 %	<100
Dilution Factor	1	---	---	---	1
Analysis Date	07.11.02	---	---	---	07.11.02
Batch ID	CKS033S	CKS033S	CKS033S	CKS033S	CKS034S
Prep Method	SOP 885	---	---	---	SOP 885
Analyst	CR	---	---	---	CR

SEVERN TRENT SERVICES

STL Pensacola
LOG NO: C2-07182
Received: 10 JUL 02
Reported: 18 JUL 02

Ms. Jacinta Tenorio
Pinnacle Laboratories
2709-D Pan American Freeway Northeast
Albuquerque, NM 87107

Client PO. No.: 207015

Project: 207015,RESPEC-OCD
Sampled By: Client
Code: 090220718

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
07182-27	Lab Control Standard % Recovery	
07182-28	Matrix Spike % Recovery	
07182-29	Matrix Spike Duplicate % Recovery	

PARAMETER	07182-27	07182-28	07182-29
Chloride (9251), mg/kg dw	109 %	100 %	98 %
Batch ID	CKS034S	CKS034S	CKS034S

These test results meet all the requirements of NELAC. All questions regarding this test report should be directed to the STL Project Manager who signed this test report.
Data from any samples that do not meet client, federal, or state sample acceptance criteria (collection, preservation, or holding time) will be flagged, or noted on a corrective action form or case narrative, or addressed on the Project Sample Inspection Form (PSIF).
A statement of the estimated uncertainty of the test result is available upon request.

Lance Larson, Project Manager

Final Page Of Report

SEVERN TRENT SERVICES

STL Pensacola Data Qualifiers for Final Report

STL Pensacola

B	The analyte was detected in the associated method blank and in the client's sample.
C	The compound has been quantitated against a one point calibration.
D	Recovery is not calculable due to dilution.
E	Estimated value because the analyte concentration exceeds the upper calibration range of the instrument or method.
I	Estimated value because the analyte concentration is less than the lower calibration range of the instrument but is at the method detection limit or greater than the method detection limit.
H	Sample and/or duplicate is below 5 X (times) the STL Reporting Limit and the absolute difference between the results exceeds the STL Reporting Limit.
J1	A sample surrogate or an LCS target compound recovered above the upper control limit (UCL). Compounds qualified with a J1 may be biased high.
J2	A sample surrogate or an LCS target compound recovered outside the lower control limit (LCL). Compounds qualified with a J2 may be biased low.
M1	A matrix effect was present.
M2	The MS and/or MSD %R or RPD was outside upper or lower control limits; not necessarily due to matrix effect.
N/C	Not Calculable; Sample spiked is > 4X spike concentration (may also use this flag in place of negative numbers).
R1	Internal standard area exceeds the acceptance criteria
R2	Calibration verification exceeds the acceptance criteria.
S1	The Method of Standard Additions (MSA) has been performed on this sample.
T	Second-column or detector confirmation exceeded the SW-846 criteria of 40% RPD for this compound.
TIC	The compound is not included in the initial calibration curve. It is searched for qualitatively or as a Tentatively Identified Compound.
U	The analyte was not detected at or above the MDL or the RL, whichever is entered next to the "U" value.
W	Post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is less than 50% spike absorbance.

When the laboratory receives a sample that does not meet EPA requirements for sample collection, preservation or holding time, the laboratory is required to reject the samples. The client must be notified and asked whether the lab should proceed with analysis. Data from any samples that do not meet sample acceptance criteria (collection, preservation and holding time), must be flagged, or noted on a corrective action form or case narrative, or addressed on the Project Sample Inspection Form (PSIF) in an unambiguous manner clearly defining the nature and substance of the variation. NPDES samples from North Carolina that do not meet EPA requirements for sample collection, preservation or holding time are non-reportable for NPDES compliance monitoring.

Abbreviations

ND	Not Detected at or above the STL Pensacola reporting limit (RL)
NS	Not Submitted
NA	Not Applicable
MDL	STL Pensacola Method Detection Limit
RL	STL Pensacola Reporting Limit
NoMS	Not enough sample provided to prepare and/or analyze a method-required matrix spike (MS) and/or duplicate (MSD)

Florida Projects Inorganic/Organic

Refer to FL DEP 62-160.700(7); Table 7 Data Qualifier Codes. FL DEP Rule 62-160.670(1)(h) states that laboratories shall include the analytical result for each analysis with applicable data qualifiers. FL DEP Rule 62-160.700(7), Table 7 lists the FL DEP data qualifiers. FL DEP Rule 62-160.700(3), Table 3 lists the Florida sites which require data qualifiers.

AFCEE QAPP Projects

Refer to AFCEE QAPP for appropriate data qualifiers (AFCEE QAPP Version will be specified by client for the project).

Arizona DEQ Projects

Any qualified data submitted to Arizona DEQ (ADEQ) after January 1, 2001 must be designated using the Arizona Data Qualifiers as developed by the Arizona ELAC technical subcommittee. Refer to the ADEQ qualifier list.

CLP and CLP-like Projects

Refer to referenced CLP Statement of Work (SOW) for explanation of data qualifiers. CLP SOW to be followed must be specified to client.

3355 McLemore Drive • Pensacola, FL 32514 • Tel: 850 474 1001 • Fax: 850 478 2671 • www.stl-inc.com

STL Pensacola is a part of Severn Trent Laboratories, Inc.

STL PENSACOLA
Certifications, Memberships & Affiliations

Alabama *Department of Environmental Management, Laboratory ID No. 40150 (Drinking Water by Reciprocity with FL), expires 06/30/02*

Arizona *Department of Health Services, Lab ID No. AZ0589 (Hazardous Waste & Wastewater), expires 01/11/03*

Arkansas *Department of Pollution Control and Ecology, (No Laboratory ID No. assigned by state) (Environmental), expires 02/20/03*

California *Department of Health Services,* ***NELAP*** *Laboratory ID No. 01128CA (Hazardous Waste and Wastewater), expires 03/31/02*

Connecticut *Department of Health Services, Connecticut Lab Approval No. PH-0697 (D W, H W and Wastewater), expires 09/30/03*

Florida *DOH,* ***NELAP*** *Laboratory ID No. E81010 (Drinking Water, Hazardous Waste and Wastewater), expires 06/30/03*

Florida *DEP/DOH CompQAP # 980156*

Kansas *Department of Health & Environment,* ***NELAP*** *Laboratory ID No. E10253 (Wastewater and Hazardous Waste), expires 10/31/02*

Kentucky *NR&EPC, Laboratory ID No. 90043 (Drinking Water), expires 12/31/02.*

Louisiana *DEQ, LELAP,* ***NELAP*** *Laboratory ID No. 02075, Agency Interest ID 30748 (Environmental, expires 6/30/03)*

Maryland *DH&MH Laboratory ID No. 233 (Drinking Water by Reciprocity with Florida), expires 09/30/02*

Massachusetts *DEP, Laboratory ID No. M-FL094 (Wastewater), expires 06/30/03*

Michigan *Bureau of E&OccH, Laboratory ID No.9912 (Drinking Water by Reciprocity with Florida), expires 06/30/02*

New ***Hampshire*** *DES ELAP,* ***NELAP*** *Laboratory ID No. 250501 (Wastewater), expires 08/16/02*

New ***Jersey*** *DEP&E,* ***NELAP*** *Laboratory ID No. FL006 (Wastewater and Hazardous Waster), expires 06/30/02.*

New ***York State*** *Department of Health,* ***NELAP*** *Laboratory ID No. 11503 (WW and Solids/Hazardous Waste), expires 04/01/2003*

North Carolina *DENR, Laboratory ID No. 314 (Hazardous Waste and Wastewater), expires 12/31/02.*

North Dakota *DH&Consol Labs, Laboratory ID No. R-108 Wastewater and Hazardous Waste by Reciprocity with Florida), expires 06/30/02*

Oklahoma *Department of Environmental Quality, Laboratory ID No. 9810 (Hazardous Waste and Wastewater), expires 08/31/02*

Pennsylvania *Department of Environmental Resources,* ***NELAP*** *Laboratory ID No. 68-467 (Drinking Water & Wastewater), expires 12/01/02*

South Carolina *DH&EC, Laboratory ID No. 96026 (Wastewater & Solids/Hazardous Waste by Reciprocity with FL), expires 06/30/02*

Tennessee *Department of Health & Environment, Laboratory ID No. 02907 (Drinking Water), expires 08/03/04*

Virginia *Department of General Services, Laboratory ID No. 00008 (Drinking Water by Reciprocity with FL), expires 06/30/03.*

Washington *Department of Ecology, Laboratory ID No. C282 (Hazardous Waste and Wastewater), expires 09/14/02.*

West Virginia *DOE, Office of Water Resources, Laboratory ID No. 136 (Haz Waste and Wastewater), expires 04/30/02.*

American Industrial Hygiene Association ***(AIHA)*** *Accredited Laboratory, Laboratory ID No. 100704, expires April 1, 2004. Participant in AIHA sponsored Laboratory PAT Rounds*

EPA ICR *(Information Collection Rule) Approved Laboratory, Laboratory ID No. ICRFL031*

Naval Facilities Engineering Services Center ***(NFESC)****, expires July 5, 2002.*

United States Army Corps. of Engineers ***(USACE)****, MRD, expires July 5, 2002.*

STL Pensacola also has a foreign soil permit to accept soils from locations other than the continental United States. Permit No. S-37599

certlist\condcert.lst revised 07/13/02.

STL Pensacola
PROJECT SAMPLE INSPECTION FORM

SEVERN TRENT SERVICES

Lab Order #: C207182 Date Received: 7/10/02

1.	Was there a Chain of Custody?	(Yes)	No*		8.	Were samples checked for preservative? *(Check pH of all H_2O requiring preservative (STL-PN SOP 917) except VOA vials that require zero headspace)*+	Yes	No*	(N/A)
2.	Was Chain of Custody properly filled out and relinquished?	(Yes)	No*		9.	Is there sufficient volume for analysis requested?	(Yes)	No*	N/A *(Can)*
3.	Were samples received cold? (Criteria: 2° - 6°C: STL-SOP	(Yes)	No*	N/A	10.	Were samples received within Holding Time? (REFER TO STL-SOP 1040)	(Yes)	No*	
4.	Were all samples properly labeled and identified?	(Yes)	No*		11.	Is Headspace visible > ¼" in diameter in VOA vials?* If any headspace is evident, comment in out-of-control section.	Yes*	No	(N/A)
5.	Did samples require splitting or compositing♦? Req By: PM Client Other♦	Yes*	(No)						
6.	Were samples received in proper containers for analysis requested?	(Yes)	No*		12.	If sent, were matrix spike bottles returned?	Yes	No*	(N/A)
7.	Were all sample containers received intact?	(Yes)	No*		13.	Was Project Manager notified of problems? (initials:_____)	Yes	No*	(N/A)

Airbill Number(s): 1Z8781680143377886 **Shipped By:** UPS

Cooler Number(s): Client **Shipping Charges:** N/A

Cooler Weight(s): 47# **Cooler Temp(s) (°C):** 4°C CCK11

(LIST THERMOMETER NUMBER(S) FOR VERIFICATION)

Out of Control Events and Inspection Comments:

(USE BACK OF PSIF FOR ADDITIONAL NOTES AND COMMENTS)

Inspected By: MLS **Date:** 7/10/02 **Logged By:** CLK **Date:** 7/10/02

♣ *Note all Out-of-Control and/or questionable events on Comment Section of this form. For holding times, the analytic department will flag immediate hold time samples(pH, Dissolved O_2, Residual CL) as out of hold time, therefore, these samples will not be documented on this PSIF.*

♦ *If Other, note who requested the splitting or compositing of samples on the Comment Section of this form. All volatile samples requested to be split or composited must be done in the Volatile Lab. Document: "Volatile sample values may be compromised due to sample splitting (compositing)"*

\+ *All preservatives for the State of North Carolina, the State of New York, and other requested samples are to be recorded on the sheet provided to record pH results (STL-SOP 938, section 2.2.9).*

* *According to EPA, ¼" of headspace is allowed in 40 ml vials requiring volatile analysis, however, STL makes it policy to record any headspace as out-of-control (STL-SOP 938, section 2.2.12).*

Pinnacle Laboratories, Inc. | **Interlab Chain of Custody** | Date: 7/9/02 Page: 1 of 3

Network Project Manager: Jacinta A. Tenorio

Pinnacle Laboratories, Inc.
2709-D Pan American Freeway, NE
Albuquerque, New Mexico 87107
(505) 344-3777 Fax (505) 344-4413

C207182

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Metals (8) RCRA	RCRA TCLP METALS	Metals-13 PP List	Metals-TAL (23 METALS)		TOX	TOC	Gen Chemistry:	Cl⁻	Oil and Grease	Volatile Organics GC/MS (8260)	BOD	COD	PESTICIDES/PCB (608/8082)	Herbicides (615/8151)	PNA (8310)/8270 SIMS	8240 (TCLP 1311) ZHE		Base/Neutral Acid Compounds GC/MS (625/8270)	URANIUM (ICP-MS)	RADIUM 226+228	Gross Alpha/Beta	TO-14	NUMBER OF CONTAINERS
MW-2@90'/207015/01	6/30/02	1330	NA										X															
SB10@3'/207015/02	↓	1400	↓										X															
SB-10@5'/207015/03		1430											X															
SB-10@10'/207015/04		1500											X															
MW-3@15'/207015/05	7/1/02	1430											X															
MW-3@35'/207015/06	↓	1530											X															
MW-3@90'/207015/07	7/2/02	1030											X															
SB-11@5'/207015/08		1300											X															
SB-11@8'/207015/09		1330											X															
SB-12@5'/207015/10	↓	1430	↓										X															

PROJECT INFORMATION		SAMPLE RECEIPT		SAMPLES SENT TO:	
PROJECT #: 207015		Total Number of Containers		PENSACOLA - STL-FL	X
PROJ. NAME: Respec		Chain of Custody Seals		ESL - OR	
QC LEVEL: (STD) IV		Received Intact?		STL - CT	
QC REQUIRED: MS MSD BLANK		Received Good Cond./Cold		ATEL - AZ	
TAT: (STANDARD) RUSH!!		LAB NUMBER:		ATEL - MARION	
				ATEL - MELMORE	
DUE DATE: 7/12	COMMENTS:			BARRINGER	
RUSH SURCHARGE: N/A				ENVIRO TEST LABS	
CLIENT DISCOUNT: N/A				WCAS	
SPECIAL CERTIFICATION REQUIRED: YES (NO)				WOHL	

RELINQUISED BY: 1.	RELINQUISED BY: 2.
Signature: Linda Montoya Time: 1700	Signature: Time:
Printed Name: L. Montoya Date: 7/9/02	Printed Name: Date:
Company: Pinnacle Laboratories, Inc.	Company
RECEIVED BY: 1.	**RECEIVED BY: 2**
Signature: Linda L. Kitt Time: 0920	Signature: Time:
Printed Name: Linda L. Kitt Date: 7/10/02	Printed Name: Date:
Company STL-FL	Company

Pinnacle Laboratories, Inc. | **Interlab Chain of Custody** | Date: 7/9/02 Page: 2 of 3

Network Project Manager: Jacinta A. Tenorio

Pinnacle Laboratories, Inc.
2709-D Pan American Freeway, NE
Albuquerque, New Mexico 87107
(505) 344-3777 Fax (505) 344-4413

C207182

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Metals (8) RCRA	RCRA TCLP METALS	Metals-13 PP List	Metals-TAL (23 METALS)		TOX	TOC	Gen Chemistry:	Cl⁻	Oil and Grease	Volatile Organics GC/MS (8260)	BOD	COD	PESTICIDES/PCB (608/8082)	Herbicides (615/8151)	PNA (8310)/8270 SIMS	8240 (TCLP 1311) ZHE		Base/Neutral Acid Compounds GC/MS (625/8270)	URANIUM (ICP-MS)	RADIUM 226+228	Gross Alpha/Beta	TO-14	NUMBER OF CONTAINERS
SB-6@5'/207015/11	6/28/02	1000	NA										X															
SB-6@10'/207015/12	↓	1030											X															
SB-7@5'/207015/13	6/29/02	1100											X															
SB-7@10'/207015/14		1130											X															
SB-8@5'/207015/15		1230											X															
SB-8@10'/207015/16	↓	1300											X															
SB-9@5'/207015/17	6/30/02	0830											X															
SB-9@10'/207015/18		0900											X															
MW-2@15'/207015/19		1000											X															
MW-2@40'/207015/20	↓	1100	↓										X															

PROJECT INFORMATION		SAMPLE RECEIPT		SAMPLES SENT TO:	
PROJECT #:	207015	Total Number of Containers		PENSACOLA - STL-FL	X
PROJ. NAME:	Respec	Chain of Custody Seals		ESL - OR	
QC LEVEL:	(STD) IV	Received Intact?		STL - CT	
QC REQUIRED:	(MS) MSD BLANK	Received Good Cond./Cold		ATEL - AZ	
TAT:	(STANDARD) RUSH!!	LAB NUMBER:		ATEL - MARION	
				ATEL - MELMORE	
DUE DATE:	7/19	COMMENTS:		BARRINGER	
RUSH SURCHARGE:	N/A			ENVIRO TEST LABS	
CLIENT DISCOUNT:	N/A			WCAS	
SPECIAL CERTIFICATION REQUIRED:	YES (NO)			WOHL	

RELINQUISED BY: 1.	RELINQUISED BY: 2.
Signature: Luke Montoya Time: 1700	Signature: Time:
Printed Name: L. Montoya Date: 7/9/02	Printed Name: Date:
Company: Pinnacle Laboratories, Inc.	Company
RECEIVED BY: 1.	**RECEIVED BY: 2**
Signature: Linda L. Kitt 0920	Signature: Time:
Printed Name: Linda L. Kitt Date: 7/10/02	Printed Name: Date:
Company: STL-FL	Company

Pinnacle Laboratories, Inc.

Interlab Chain of Custody

Date: 7/9/02 Page: 3 of 3

Network Project Manager: Jacinta A. Tenorio

Pinnacle Laboratories, Inc.
2709-D Pan American Freeway, NE
Albuquerque, New Mexico 87107
(505) 344-3777 Fax (505) 344-4413

C207187

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Metals (8) RCRA	RCRA TCLP METALS	Metals-13 PP List	Metals-TAL (23 METALS)		TOX	TOC	Gen Chemistry:	Cl⁻	Oil and Grease	Volatile Organics GC/MS (8260)	BOD	COD	PESTICIDES/PCB (608/8082)	Herbicides (615/8151)	PNA (8310)/8270 SIMS	8240 (TCLP 1311) ZHE		Base/Neutral Acid Compounds GC/MS (625/6270)	URANIUM (ICP-MS)	RADIUM 226+228	Gross Alpha/Beta	TO-14	NUMBER OF CONTAINERS
SB-12@10'/207015/21	7/2/02	1500	NA																									

PROJECT INFORMATION	SAMPLE RECEIPT	SAMPLES SENT TO:	RELINQUISED BY: 1.	RELINQUISED BY: 2.
PROJECT #: 207015	Total Number of Containers	PENSACOLA - STL-FL X	Signature: Lisa Montoya Time: 1700	Signature: Time:
PROJ. NAME: Respec	Chain of Custody Seals	ESL - OR	Printed Name: L. Montoya Date: 7/9/02	Printed Name: Date:
QC LEVEL: STD IV	Received Intact?	STL - CT	Pinnacle Laboratories, Inc.	Company
QC REQUIRED: MS MSD BLANK	Received Good Cond./Cold	ATEL - AZ	RECEIVED BY: 1.	RECEIVED BY: 2.
TAT: STANDARD RUSH!!	LAB NUMBER:	ATEL - MARION	Signature: Linda L. Kitt Time: 0920	Signature: Time:
DUE DATE: 7/19	COMMENTS:	ATEL - MELMORE	Printed Name: Linda L. Kitt Date: 7/10/02	Printed Name: Date:
RUSH SURCHARGE: N/A		BARRINGER	Company SD-F1	Company
CLIENT DISCOUNT: N/A		ENVIRO TEST LABS		
SPECIAL CERTIFICATION REQUIRED: YES NO		WCAS		
		WOHL		

PINNACLE LABORATORIES

Pinnacle Laboratories Inc.

CHAIN OF CUSTODY

DATE: 7/2/02 PAGE: 2 OF 3

PLI Accession #: 207015

SHADED AREAS ARE FOR LAB USE ONLY.

PLEASE FILL THIS FORM IN COMPLETELY.

PROJECT MANAGER:

COMPANY: Respec
ADDRESS: 4775 Indian School Rd NE
Albq, NM 87110
PHONE: 505-268-2661
FAX: 505-268-0040

BILL TO: OCD
COMPANY:
ADDRESS:

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB I.D.	Petroleum Hydrocarbons (418.1) TRPH	(MOD.8015) Diesel/Direct Inject	Chloride	(M8015) Gas/Purge & Trap	8021 (BTEX)/8015 (Gasoline) MTBE	8021 (BTEX) ☐MTBE ☐TMB ☐PCE	8021 (TCL)	8021 (EDX)	8021 (HALO)	8021 (CUST)	504.1 EDB ☐ / DBCP ☐		8260 (TCL) Volatile Organics	8260 (Full) Volatile Organics	8260 (CUST) Volatile Organics	8260 (Landfill) Volatile Organics	Pesticides/PCB (608/8081/8082)	Herbicides (615/8151)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Polynuclear Aromatics (610/8310/8270-SIMS)	General Chemistry:		Priority Pollutant Metals (13)	Target Analyte List Metals (23)	RCRA Metals (8)	RCRA Metals by TCLP (Method 1311)	Metals:		NUMBER OF CONTAINERS
MW-2@ 90'	6/30/02	1:30	Soil	01		X	X																									1
SB-10 @ 3'	"	2:00	"	02		X	X																									1
SB-10 @ 5'	"	2:30	"	03		X	X																									1
SB-10 @ 10'	"	3:00	"	04		X	X																									1
MW-3 @ 15'	7/1/02	2:30	"	05		X	X																									1
MW-3 @ 35'	"	3:30	"	06		X	X																									1
MW-3 @ 90'	7/2/02	10:30	"	07		X	X																									1
SB-11 @ 5'	"	1:00	"	08		X	X																									1
SB-11 @ 8'	"	1:30	"	09		X	X																									1
SB-12 @ 5'	"	2:30	"	10		X	X																									1

PROJECT INFORMATION

PROJ. NO.:
PROJ. NAME:
P.O. NO.:
SHIPPED VIA:

SAMPLE RECEIPT

NO CONTAINERS	10
CUSTODY SEALS	Y/N/(NA)
RECEIVED INTACT	Y/N
BLUE ICE/ICE	2.5°C

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

(RUSH) ☐24hr ☐48hr ☐72hr ☐1 WEEK (NORMAL) ☒

CERTIFICATION REQUIRED ☐NM ☐SDWA ☐OTHER

METHANOL PRESERVATION ☒ No

COMMENTS: FIXED FEE ☐
Bill OCD Direct

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.
Signature: Time: 15:26	Signature: Time:
Printed Name: Date: 7/2/02 Austin Eldridge	Printed Name: Date:
Company: Respec	Company:
See reverse side (Force Majeure)	
RECEIVED BY: 1.	**RECEIVED BY: (LAB) 2.**
Signature: Time:	Signature: Time: 1526
Printed Name: Date:	Printed Name: Date: 7/3/02 L. Montoya
Company:	Pinnacle Laboratories Inc.

PINNACLE LABORATORIES

Pinnacle Laboratories Inc.

CHAIN OF CUSTODY

DATE: 7/2/02 PAGE: 1 OF 3

PLI Accession #: 207015

SHADED AREAS ARE FOR LAB USE ONLY.

PLEASE FILL THIS FORM IN COMPLETELY.

PROJECT MANAGER:

COMPANY: Respec
ADDRESS: 4775 Indian School Rd NE
Abq, NM 87110
PHONE: 505-268-2661
FAX: 505-268-0040

BILL TO: OCD
COMPANY:
ADDRESS:

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB I.D.	Petroleum Hydrocarbons (418.1) TRPH	(MOD.8015) Diesel/Direct Inject	Chloride	(M8015) Gas/Purge & Trap	8021 (BTEX)/8015 (Gasoline) MTBE	8021 (BTEX) ☐MTBE ☐TMB ☐PCE	8021 (TCL)	8021 (EDX)	8021 (HALO)	8021 (CUST)	504.1 EDB ☐ / DBCP ☐		8260 (TCL) Volatile Organics	8260 (Full) Volatile Organics	8260 (CUST) Volatile Organics	8260 (Landfill) Volatile Organics	Pesticides/PCB (608/8081/8082)	Herbicides (615/8151)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Polynuclear Aromatics (610/8310/8270-SIMS)	General Chemistry:		Priority Pollutant Metals (13)	Target Analyte List Metals (23)	RCRA Metals (8)	RCRA Metals by TCLP (Method 1311)	Metals:		NUMBER OF CONTAINERS
SB6@5'	6/28/02	10:00	Soil	11		X	X																									1
SB-6@10'	"	10:30	"	12		X	X																									1
SB-7@5'	6/29/02	11:00	"	13		X	X																									1
SB-7@10'	"	11:30	"	14		X	X																									1
SB-8@5'	"	12:30	"	15		X	X																									1
SB-8@10'	"	1:00	"	16		X	X																									1
SB-9@5'	6/3/02	8:30	"	17		X	X																									1
SB-9@10'	"	9:00	"	18		X	X																									1
MW-2@15'	"	10:00	"	19		X	X																									1
MW-2@40'	"	11:00	"	20		X	X																									1

PROJECT INFORMATION

PROJ. NO.: Eunice-OCD
PROJ. NAME: Eunice-OCD
P.O. NO.:
SHIPPED VIA:

SAMPLE RECEIPT

NO CONTAINERS	10
CUSTODY SEALS	Y / N / (NA)
RECEIVED INTACT	Yes
BLUE ICE/ICE	2.5°C

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

(RUSH) ☐24hr ☐48hr ☐72hr ☐1 WEEK (NORMAL) ☒

CERTIFICATION REQUIRED ☐NM ☐SDWA ☐OTHER

METHANOL PRESERVATION ☐ NO

COMMENTS: FIXED FEE ☐

Bill OCD Direct

RELINQUISHED BY: 1.

Signature: Time: 15:26 7/3/02
Printed Name: Austin Bridge Date: 7/3/02
Company: Respec
See reverse side (Force Majeure)

RECEIVED BY: 1.

Signature: Time:
Printed Name: Date:
Company:

RELINQUISHED BY: 2.

Signature: Time:
Printed Name: Date:
Company:

RECEIVED BY: (LAB) 2.

Signature: Time: 1526
Printed Name: L. Montoya Date: 7/3/02
Pinnacle Laboratories Inc.

American Environmental Network (NM), Inc.

CHAIN OF CUSTODY
(Continuation Sheet)

PAGE 3 OF 3

CLIENT: Respec
P.O. NUMBER
AEN(NM) Accession #: 207015

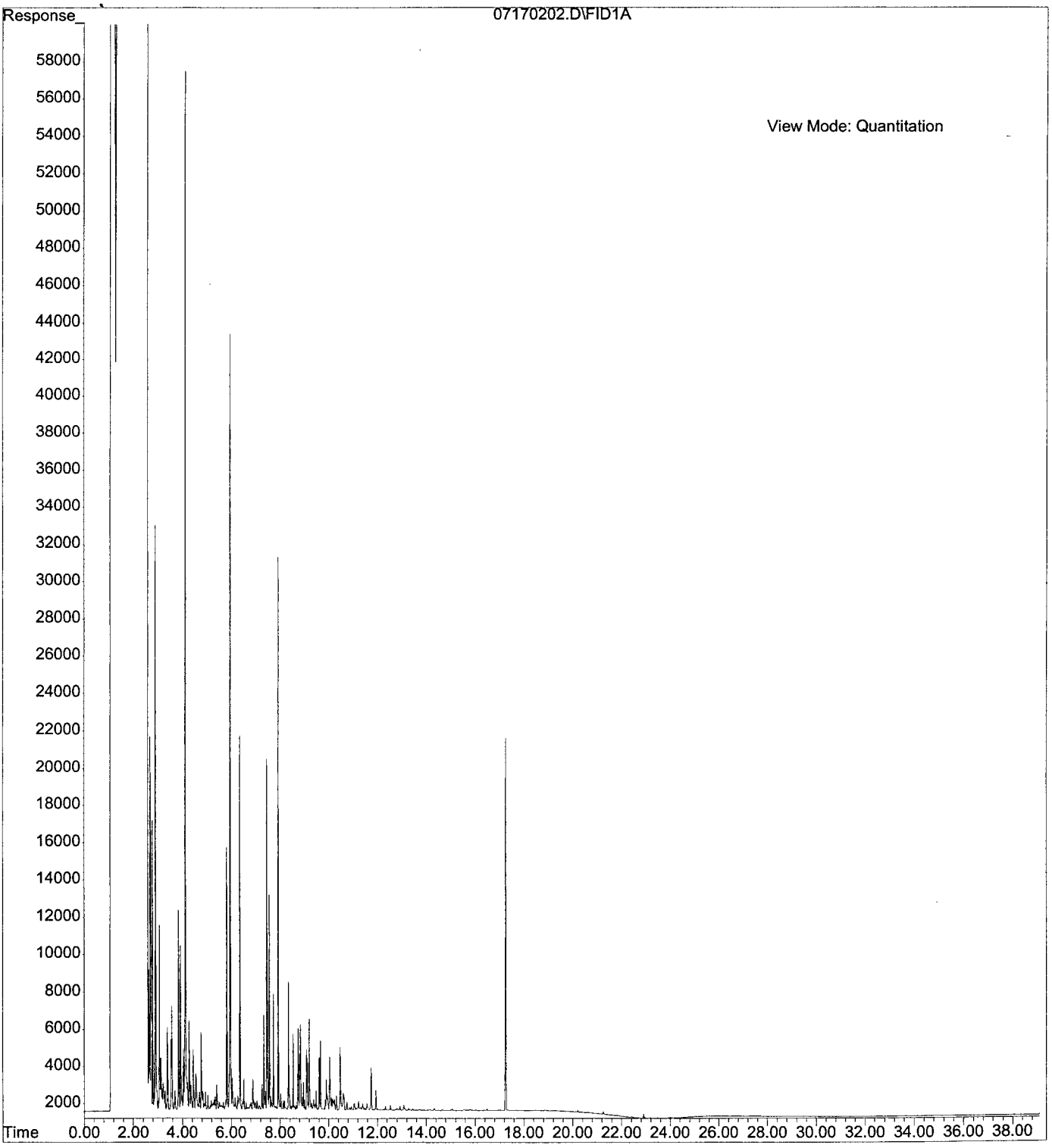
PARAMETERS: MOD 8015 Diesel Direct Inject; Chloride

CLIENT SAMPLE ID	LAB ID	DATE AND TIME	MATRIX	MOD 8015 Diesel Direct Inject	Chloride					BOTTLE TYPE & NO.	NET PRICE
SB-12@10'	21	7-2-02 3:00	Soil	X	X						

SAMPLES RELINQUISHED BY (SIGNATURE)	DATE AND TIME	SAMPLES RELINQUISHED BY (SIGNATURE)	DATE AND TIME	REMARKS ON SAMPLE RECEIPT
[signature]	7/3/02 15:26			[X] Bottle Intact [ ] Custody Seals [ ] Preserved [ ] Seals Intact [X] Chilled [ ] See Remarks
SAMPLES RECEIVED BY (SIGNATURE)	**DATE AND TIME**	**SAMPLES RECEIVED BY (SIGNATURE)**	**DATE AND TIME**	**REMARKS ON SAMPLE RECEIPT**
		[signature]	7/3/02 1526	[ ] Bottle Intact [ ] Custody Seals [ ] Preserved [ ] Seals Intact [ ] Chilled [ ] See Remarks

DISTRIBUTION: White - AEN (NM), Canary - Originator

File : C:\HPCHEM\2\DATA\071702\07170202.D
Operator : ccm
Acquired : 17 Jul 2002 11:07 using AcqMethod NM0716F.M
Instrument : FID-1
Sample Name: gas ccv
Misc Info : 200 mg/kg GC4-55-10
Vial Number: 2



File : C:\HPCHEM\2\DATA\071702\07170203.D
Operator : ccm
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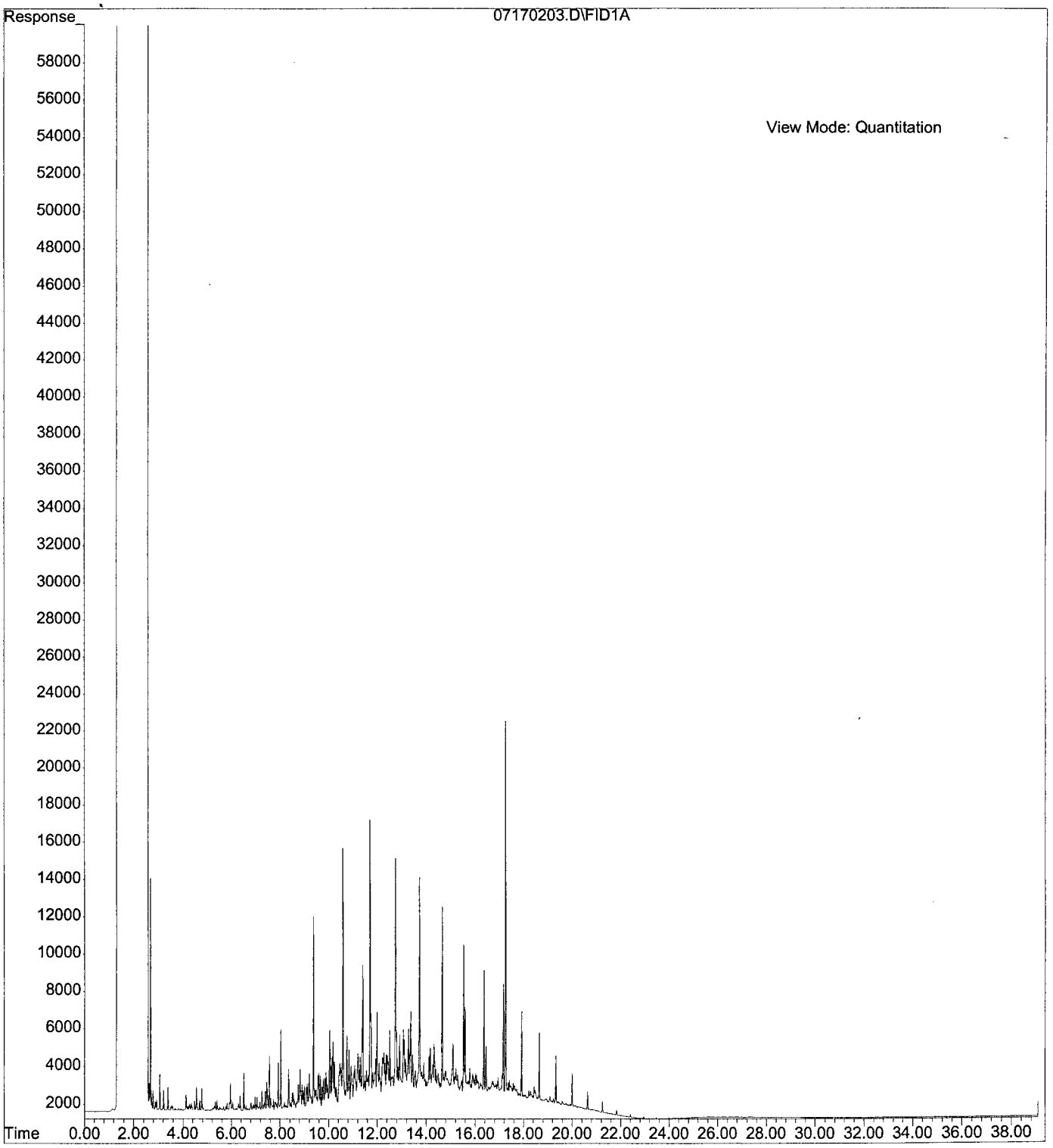
Instrument : FID-1
Sample Name: dsl ccv
Misc Info : 200 mg/kg GC4-51-17
Vial Number: 3



File : C:\HPCHEM\2\DATA\071702\07170210.D
Operator : ccm
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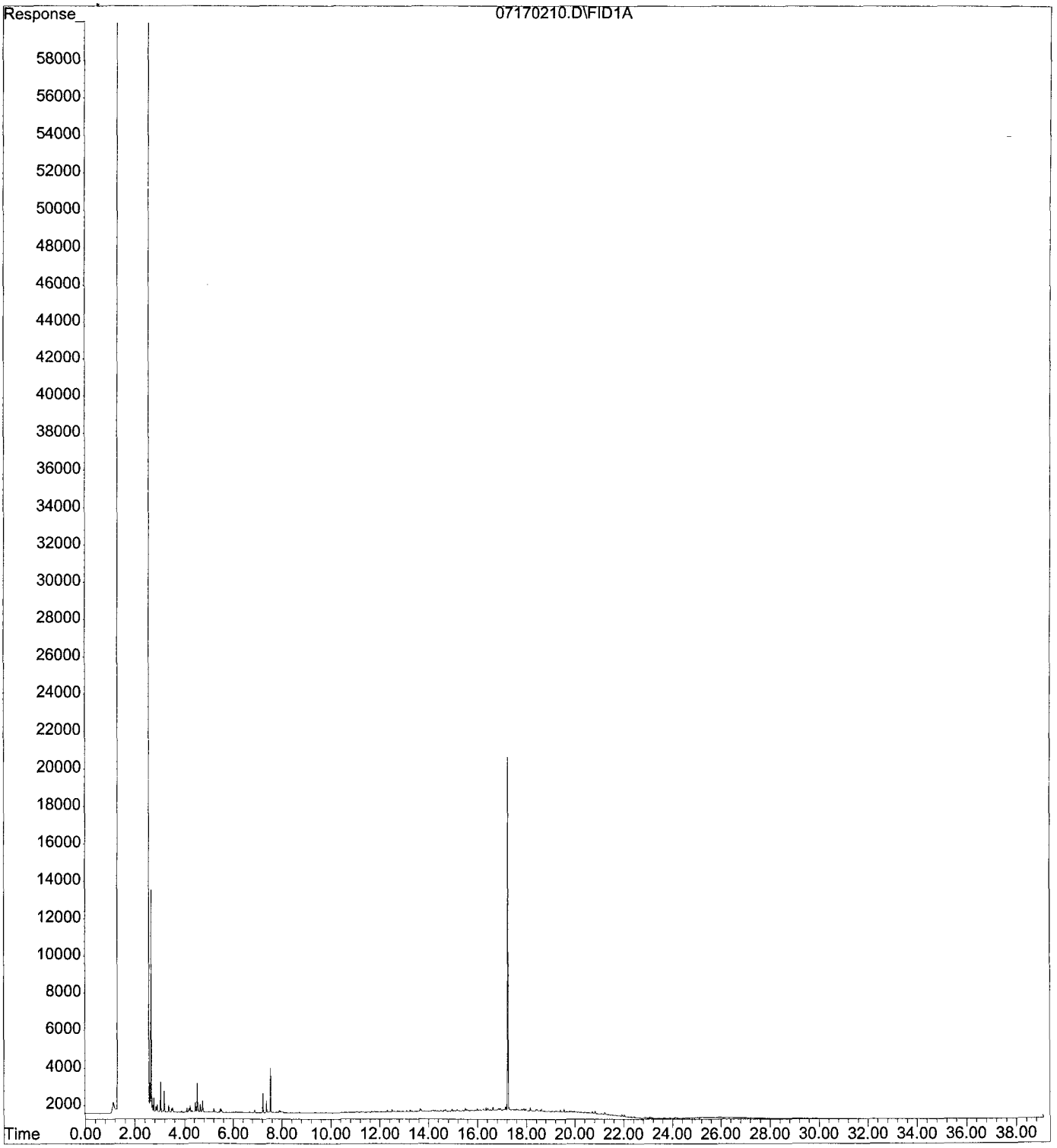
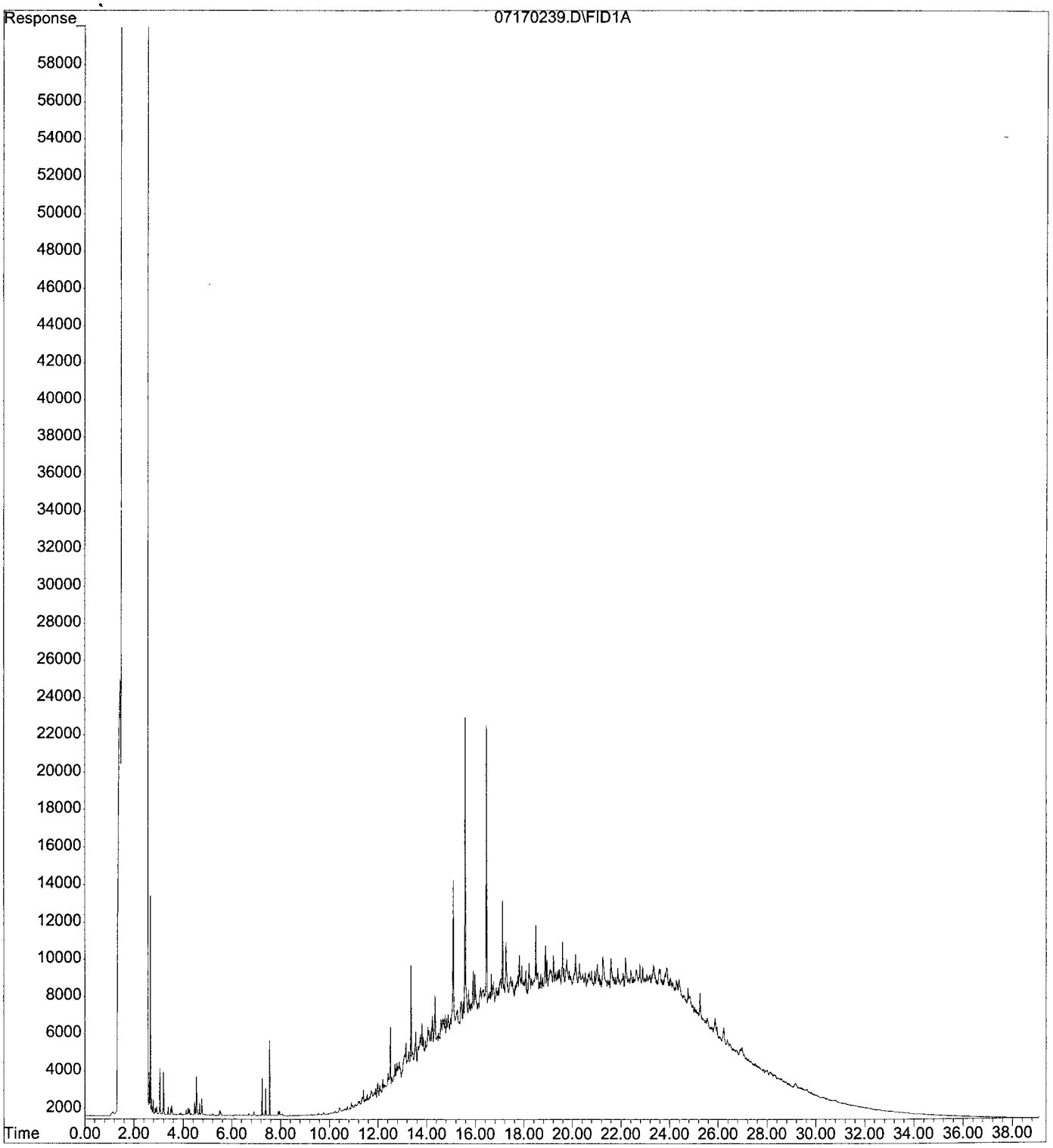
Instrument : FID-1
Sample Name: soil 207015-01
Misc Info : soil
Vial Number: 10



File : C:\HPCHEM\2\DATA\071702\07170239.D
Operator : ccm
Acquired : 19 Jul 2002 00:58 using AcqMethod NM0716F.M
Instrument : FID-1
Sample Name: 207015-02 (10x)
Misc Info : soil
Vial Number: 39



File : C:\HPCHEM\2\DATA\071702\07170211.D
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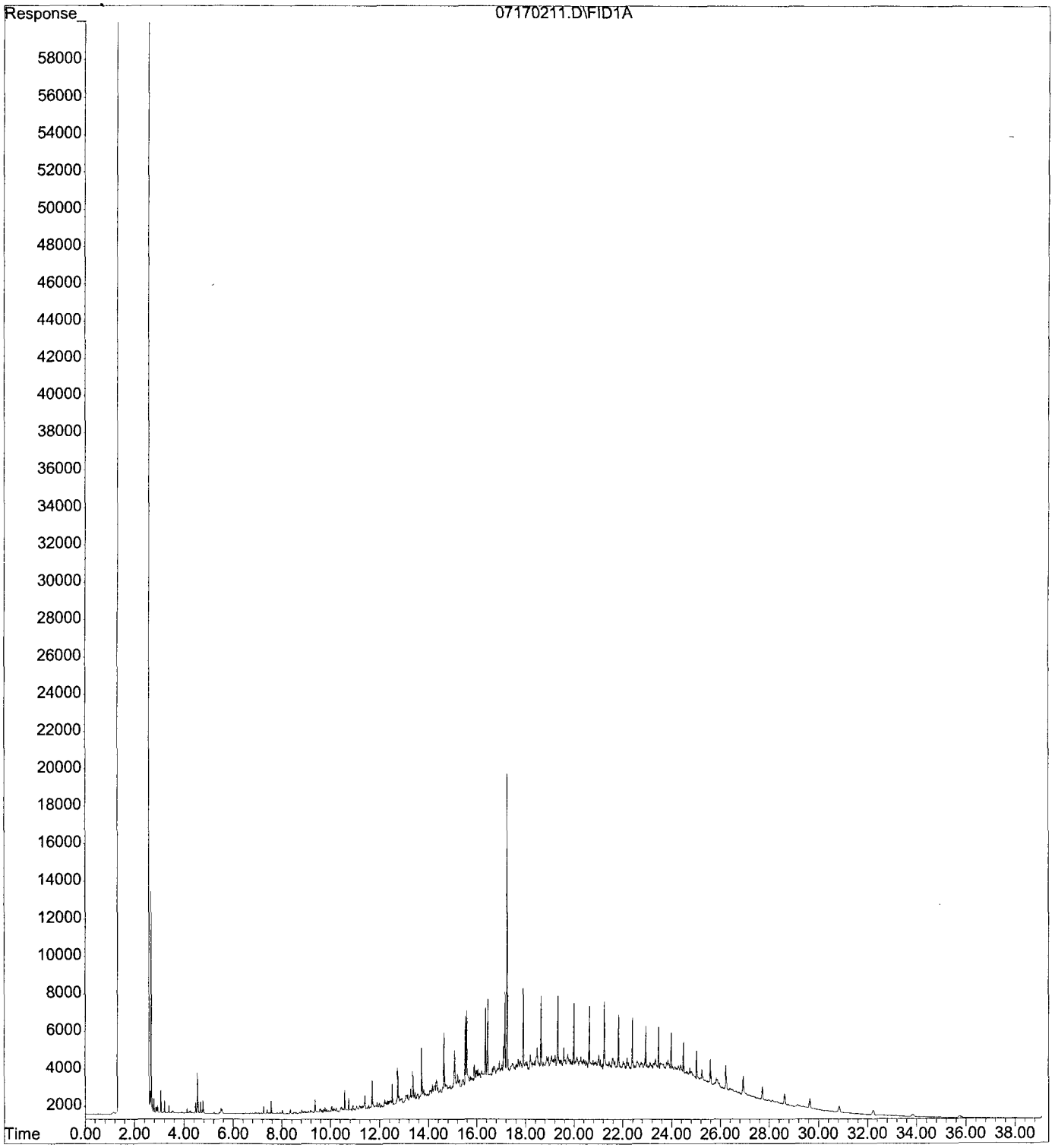
Instrument : FID-1
Sample Name: soil 207015-03
Misc Info : soil
Vial Number: 11



File : C:\HPCHEM\2\DATA\071702\07170212.D
Operator : ccm
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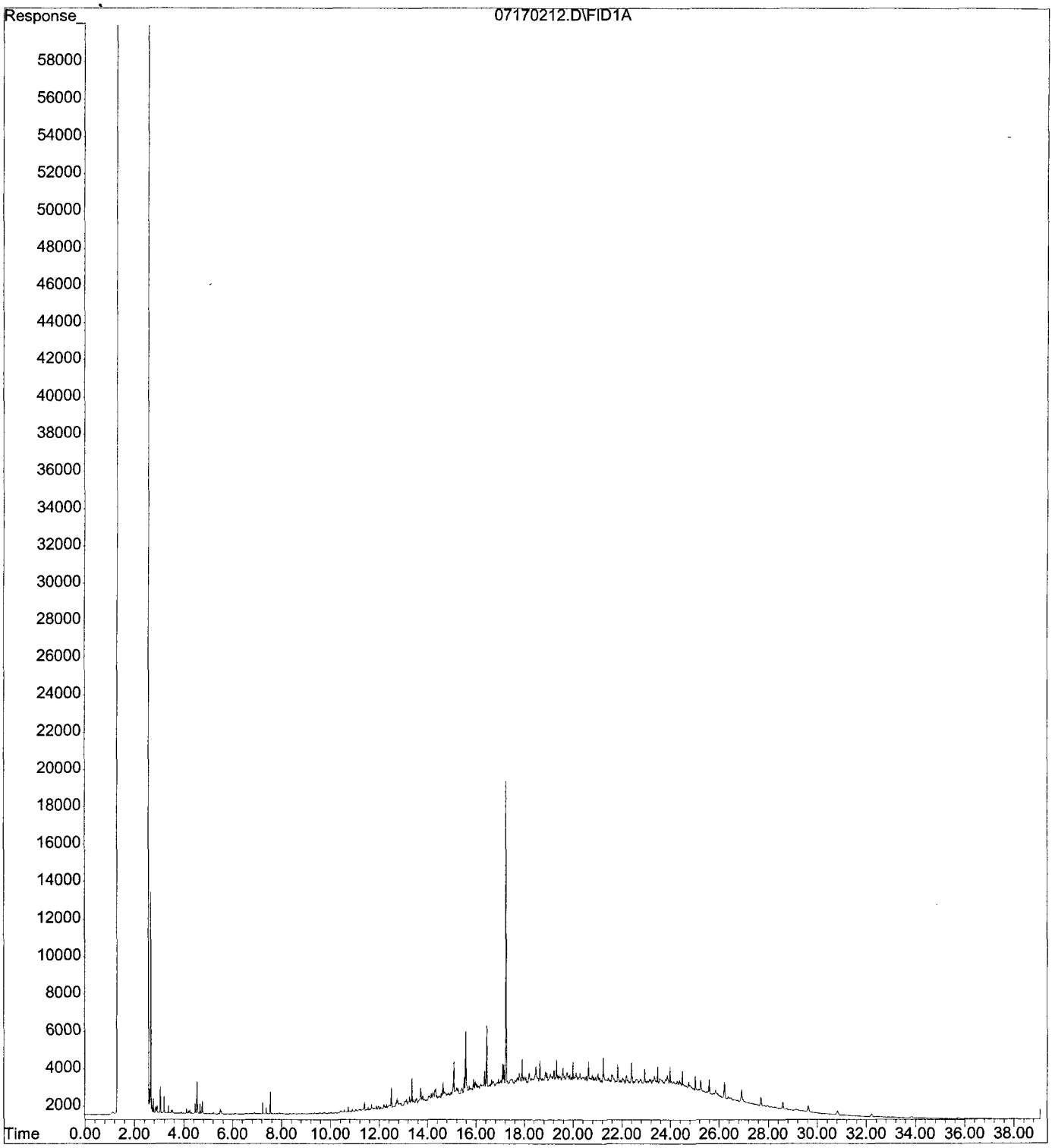
Instrument : FID-1
Sample Name: soil 207015-04
Misc Info : soil
Vial Number: 12



File : C:\HPCHEM\2\DATA\071702\07170213.D
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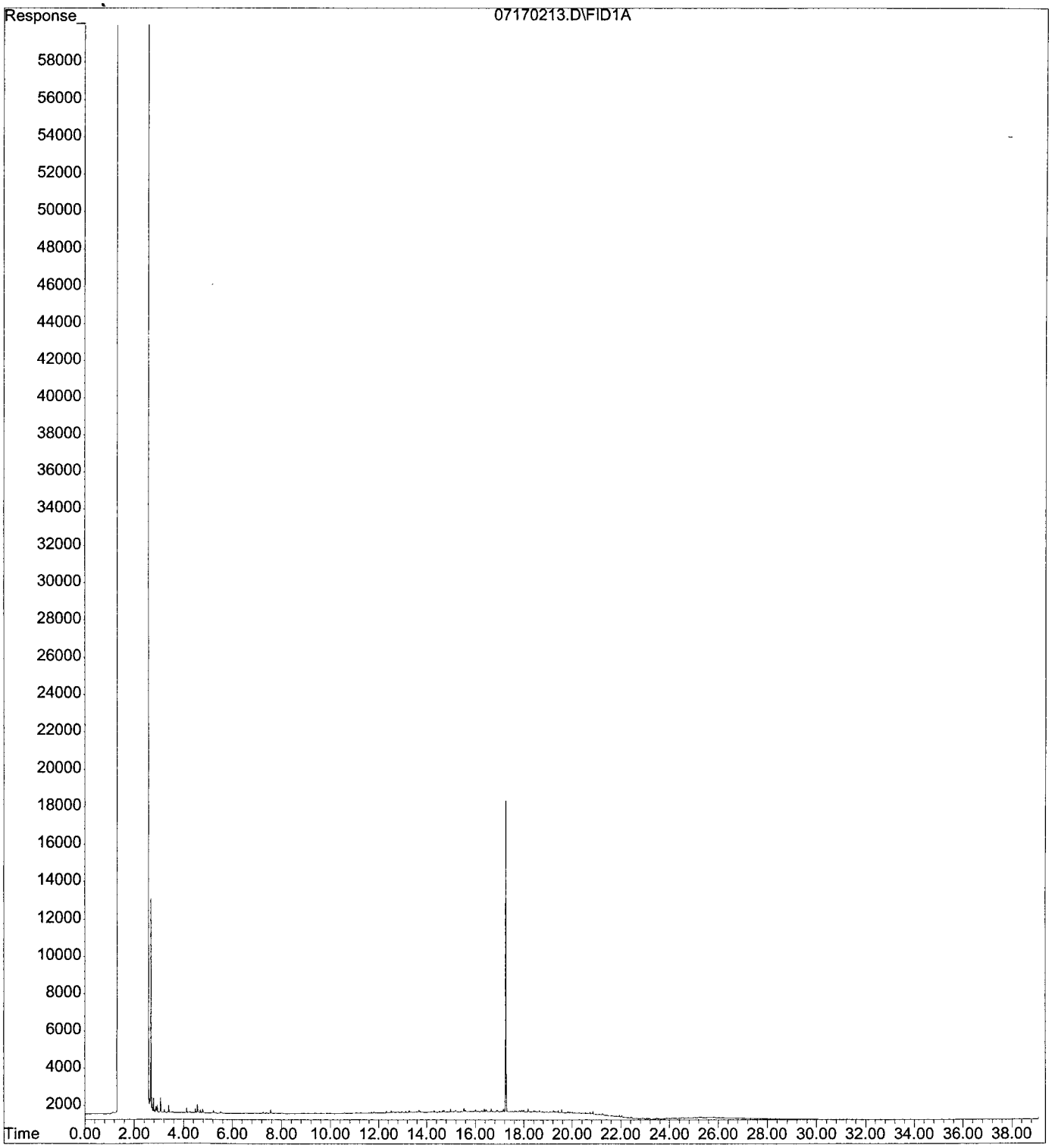
Instrument : FID-1
Sample Name: soil 207015-05
Misc Info : soil
Vial Number: 13



File : C:\HPCHEM\2\DATA\071702\07170215.D
Operator : ccm
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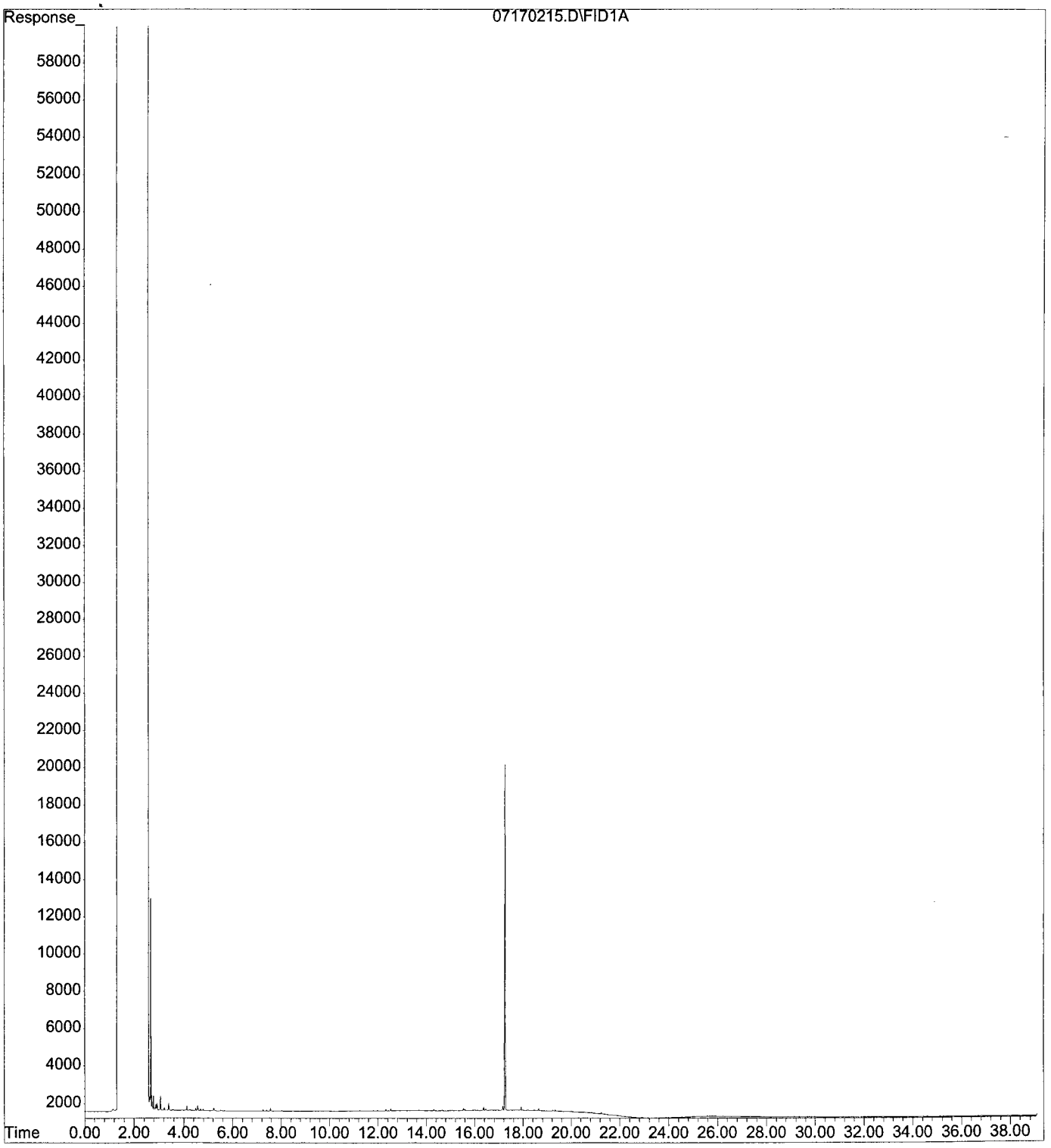
Instrument : FID-1
Sample Name: soil 207015-06
Misc Info :
Vial Number: 15



File : C:\HPCHEM\2\DATA\071702\07170216.D
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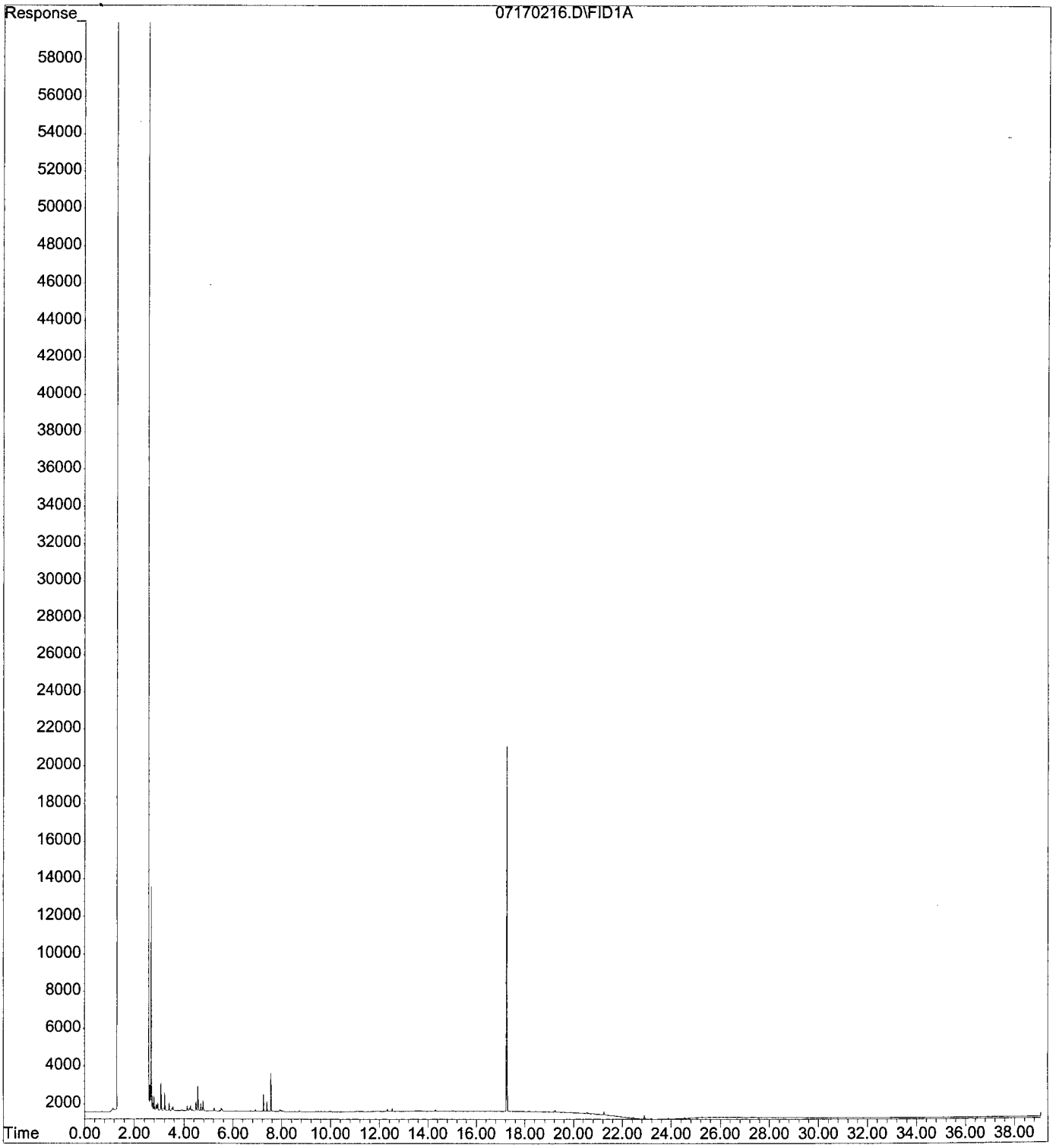
Instrument : FID-1
Sample Name: soil 207015-07
Misc Info :
Vial Number: 16



File : C:\HPCHEM\2\DATA\071702\07170217.D
Operator : ccm
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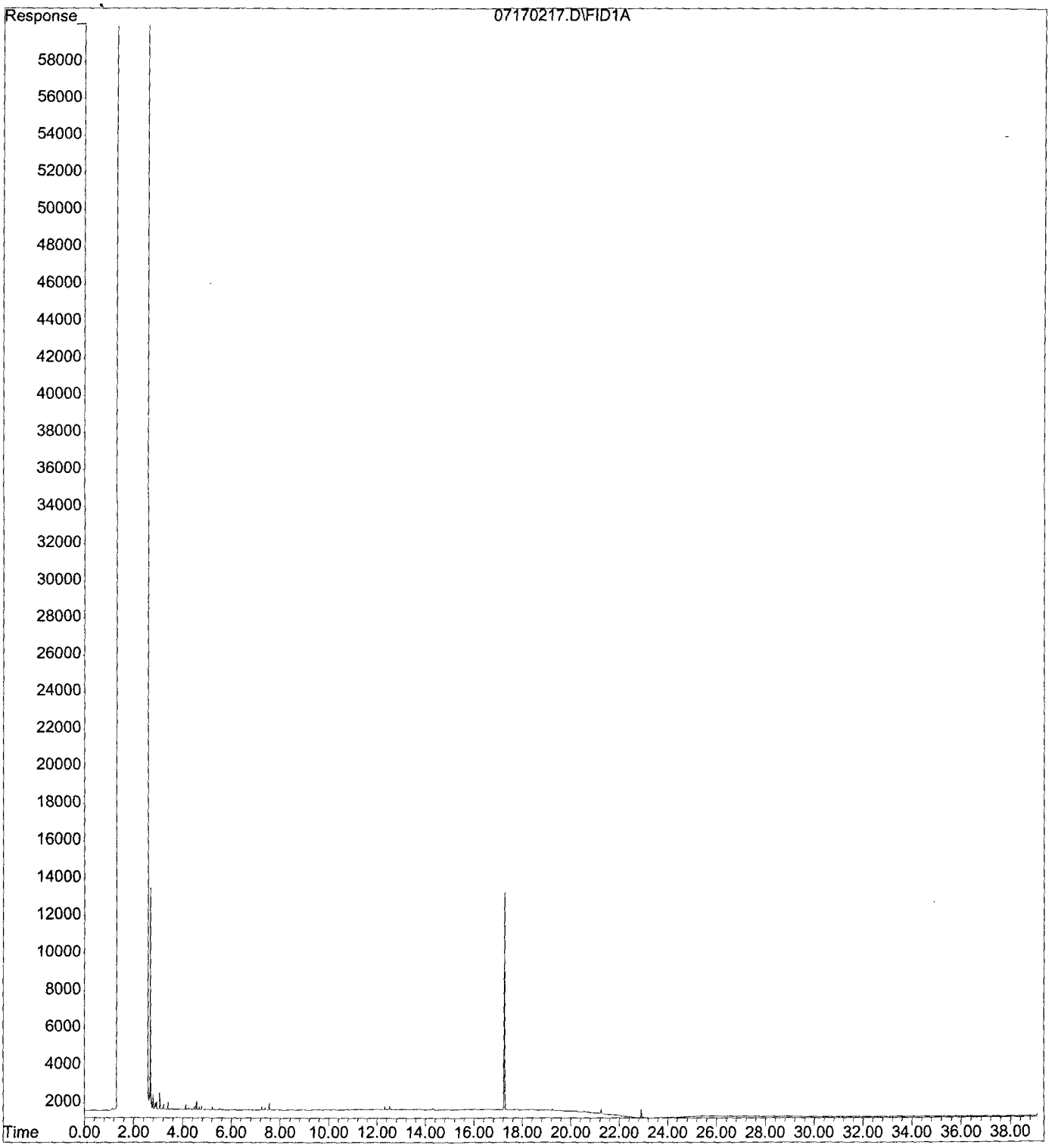
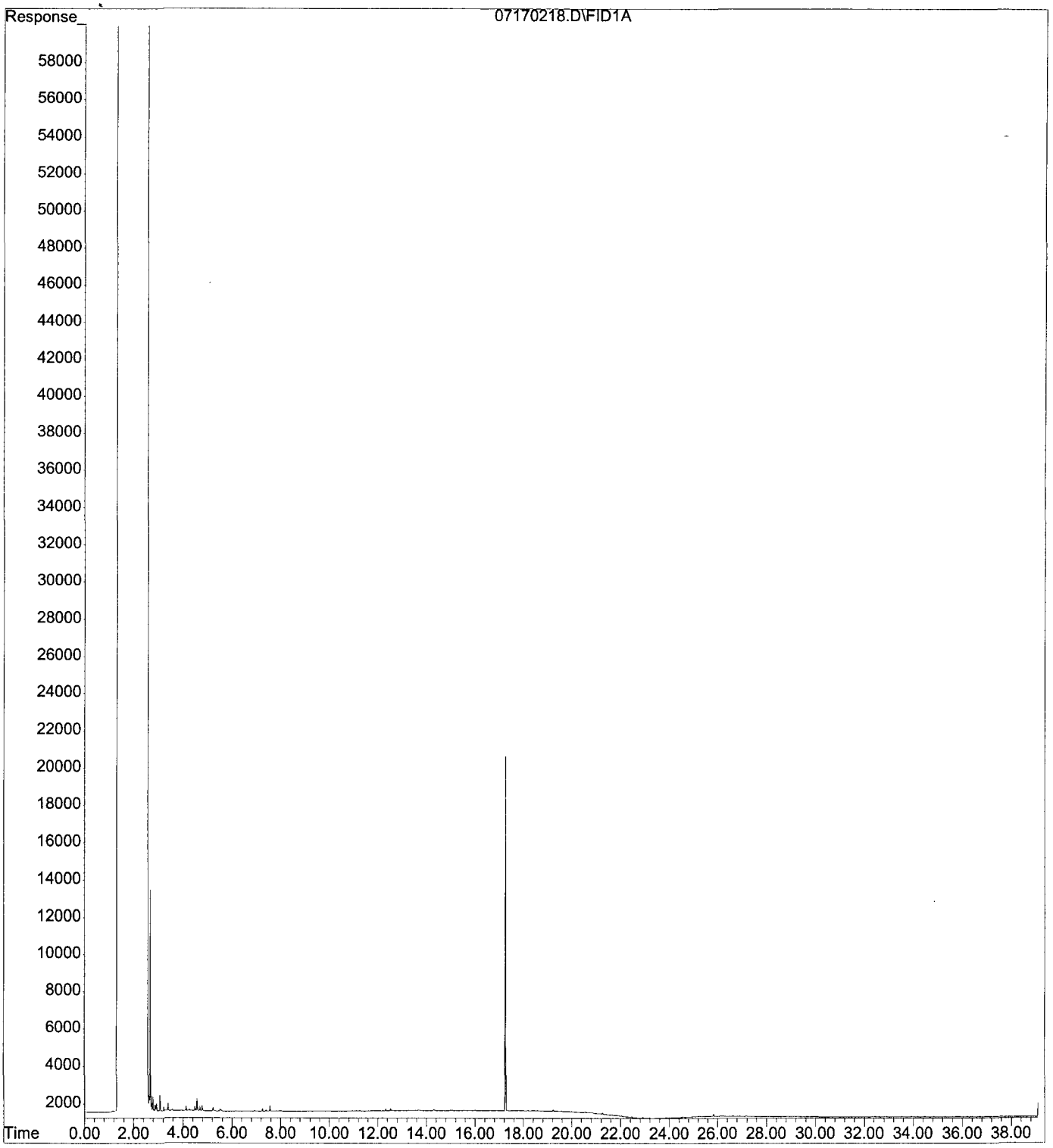
Instrument : FID-1
Sample Name: soil 207015-08
Misc Info :
Vial Number: 17



File : C:\HPCHEM\2\DATA\071702\07170218.D
Operator : ccm
Acquired : 18 Jul 2002 4:19 using AcqMethod NM0716F.M
Instrument : FID-1
Sample Name: soil 207015-09
Misc Info :
Vial Number: 18



File : C:\HPCHEM\2\DATA\071702\07170219.D
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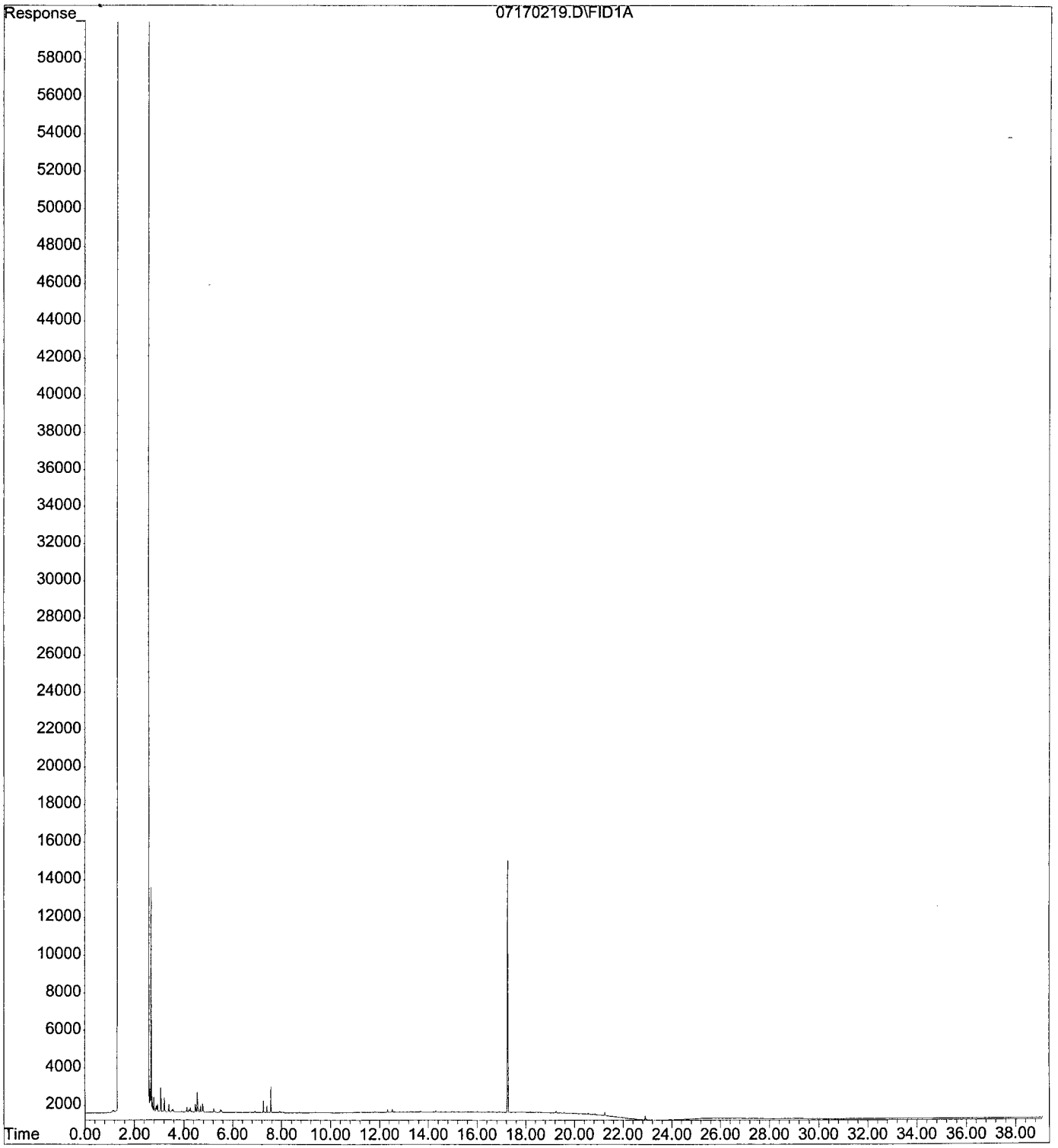
Instrument : FID-1
Sample Name: soil 207015-10
Misc Info :
Vial Number: 19



File : C:\HPCHEM\2\DATA\071702\07170227.D
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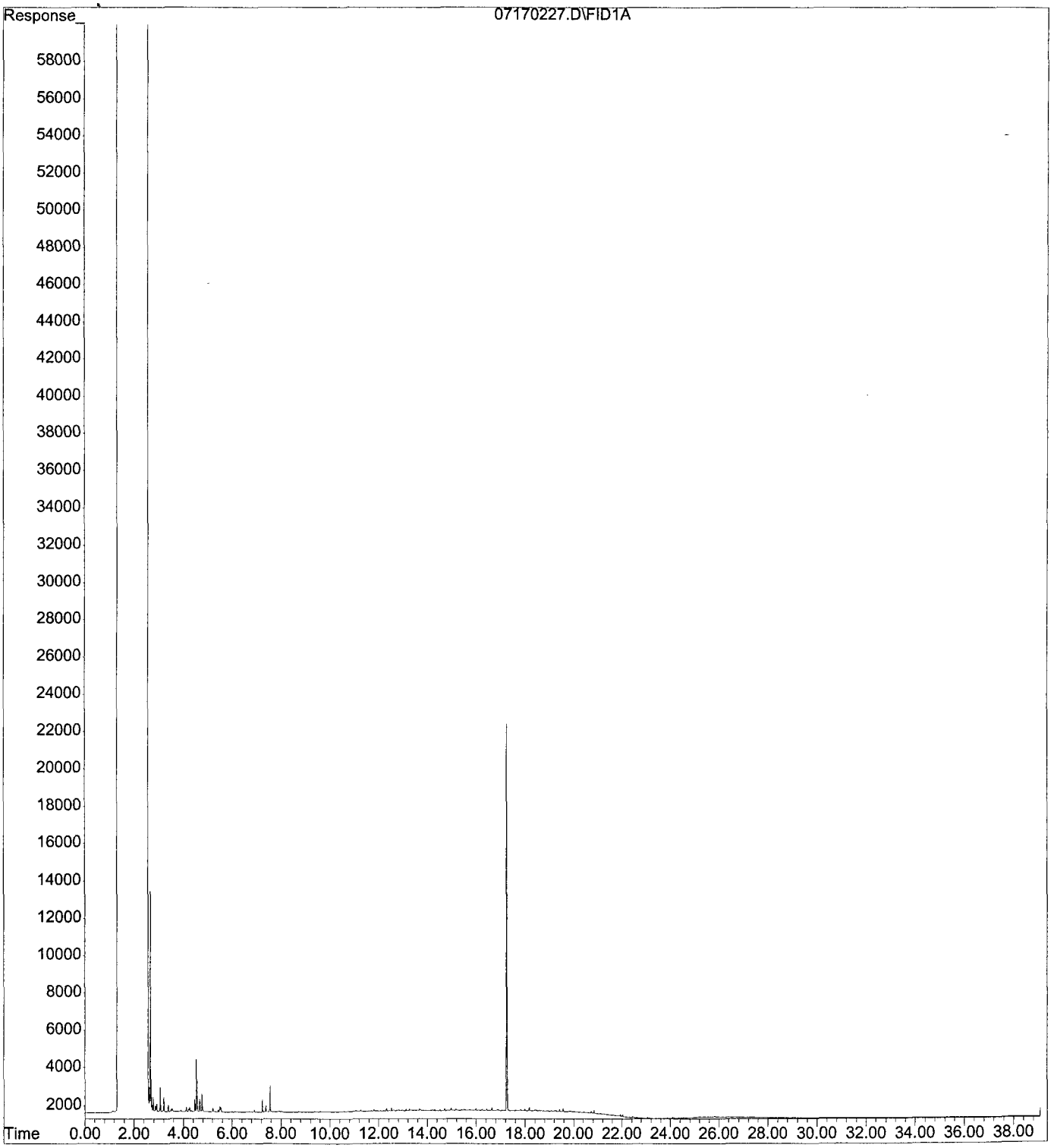
Instrument : FID-1
Sample Name: 207015-11
Misc Info : soil
Vial Number: 27



File : C:\HPCHEM\2\DATA\071702\07170228.D
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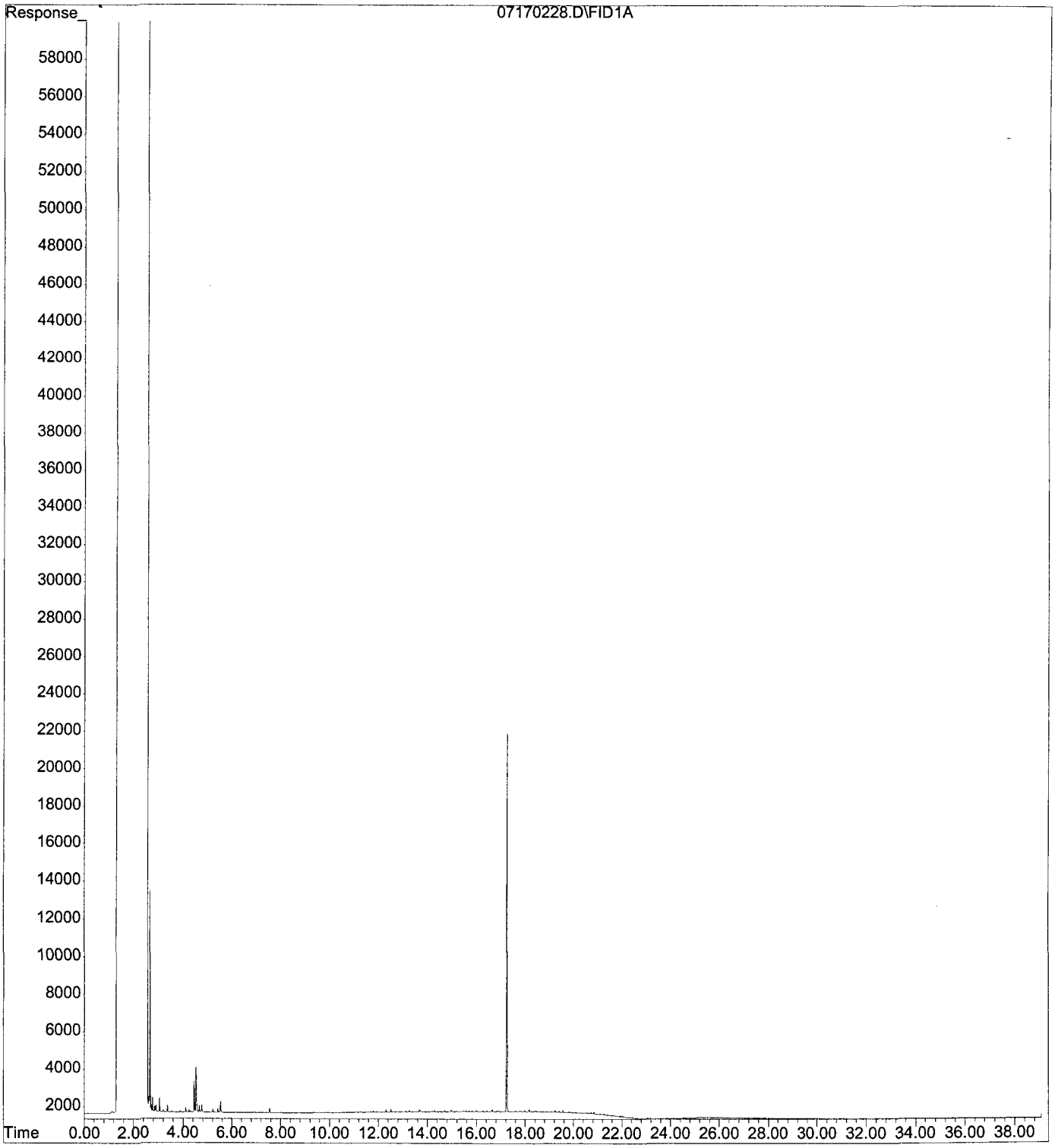
Acquired : 18 Jul 2002 13:44 using AcqMethod NM0716F.M
Instrument : FID-1
Sample Name: 207015-12
Misc Info : soil
Vial Number: 28



File : C:\HPCHEM\2\DATA\071702\07170229.D
Operator : ccm
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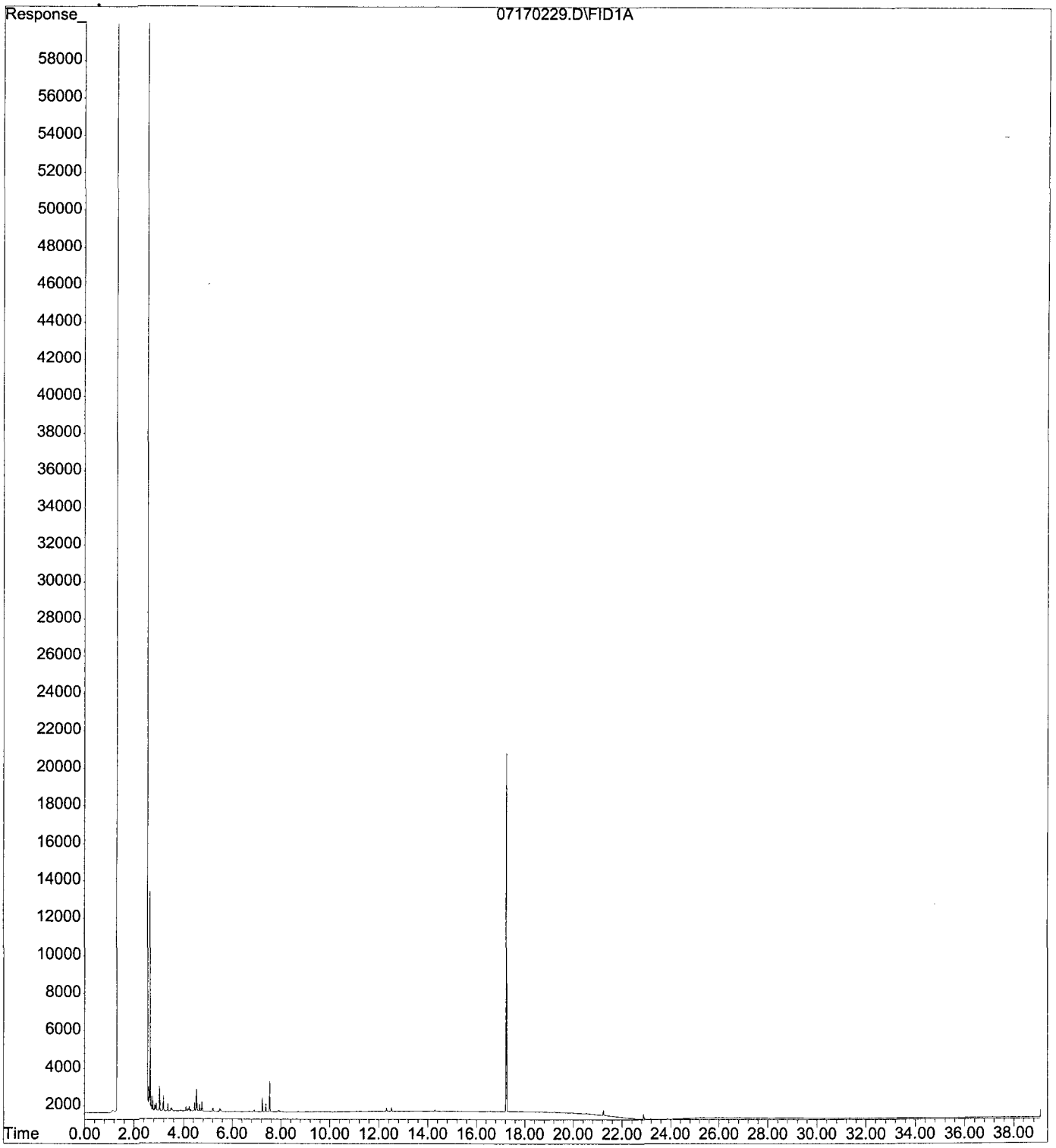
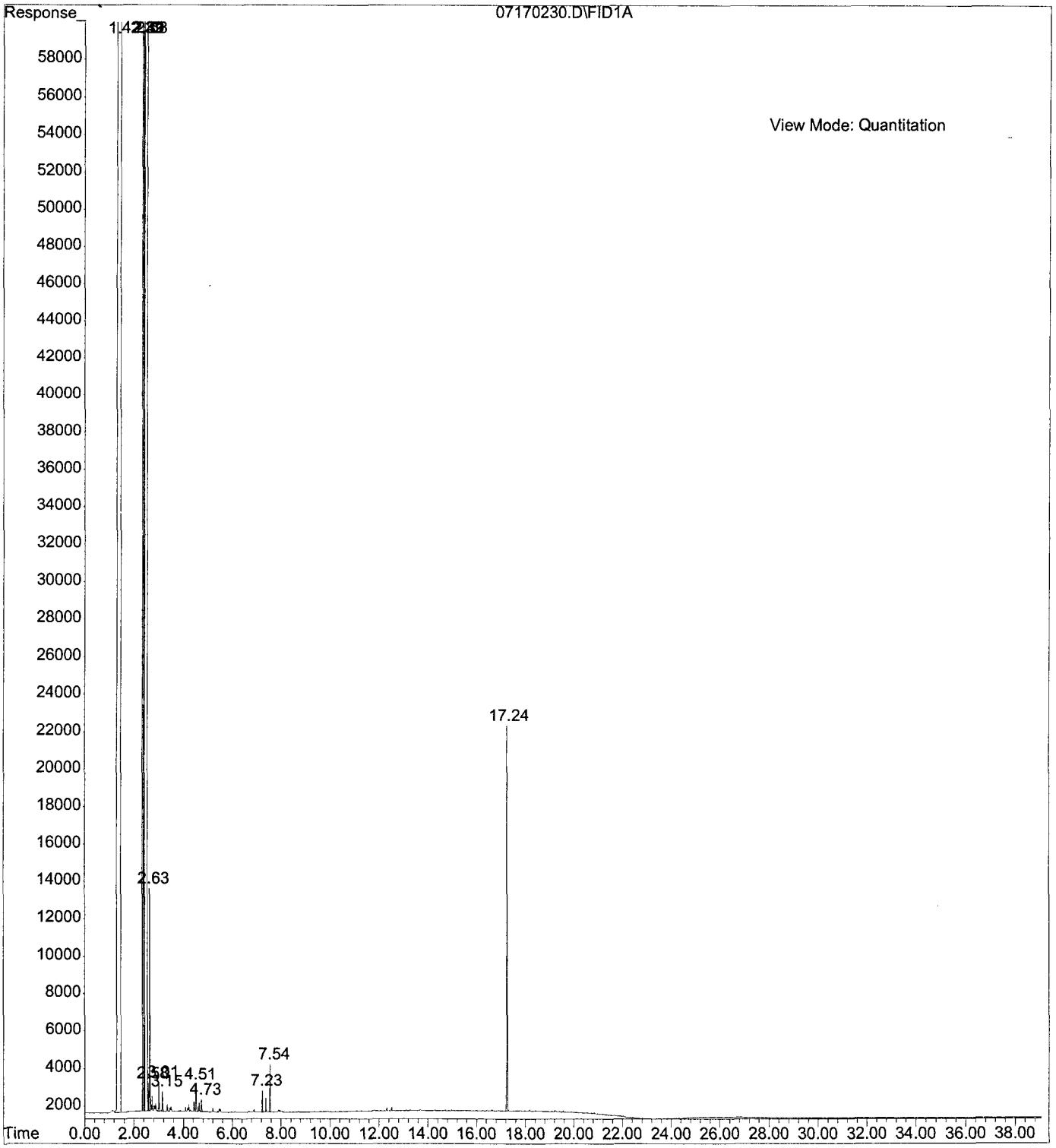
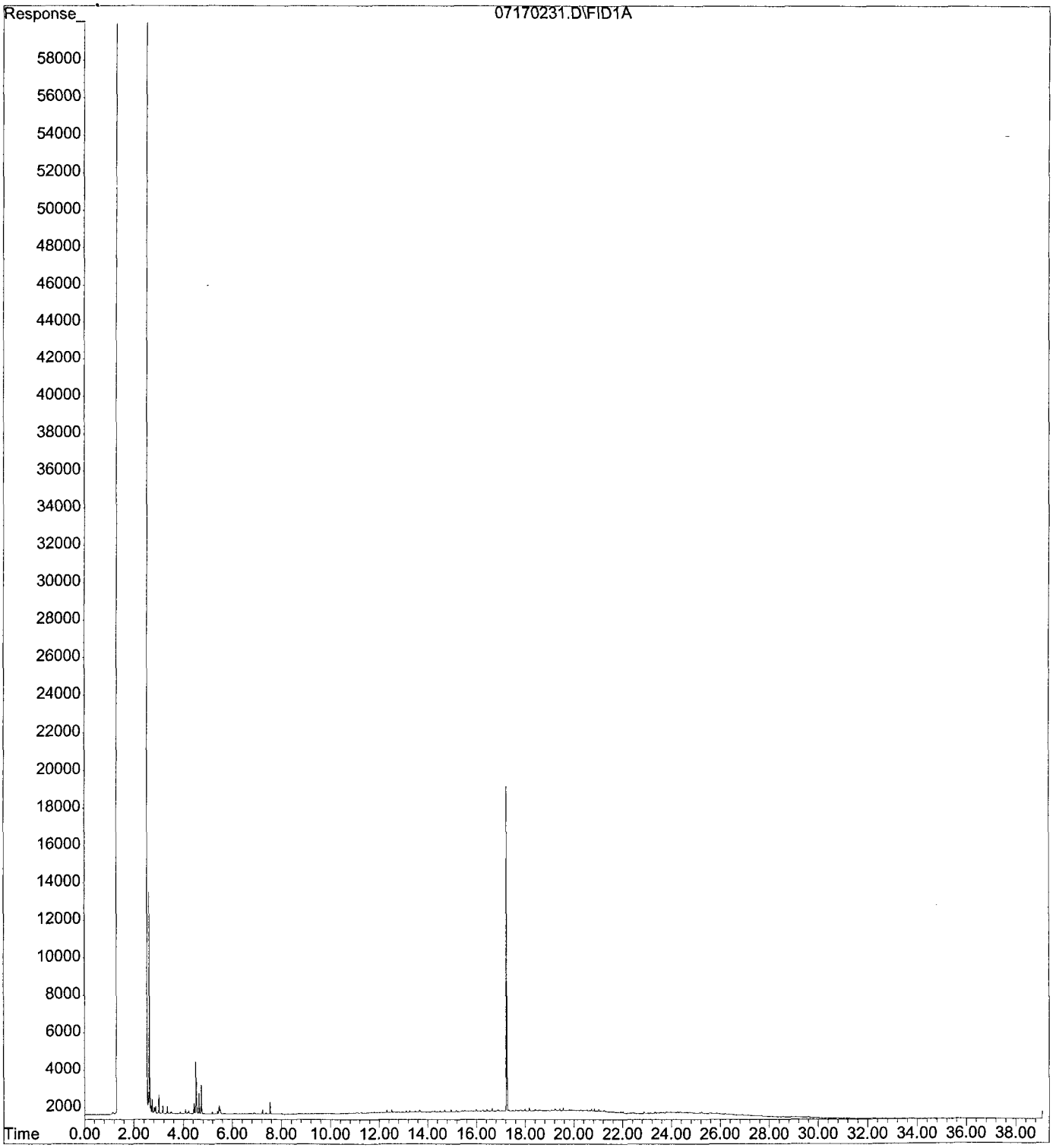
Instrument : FID-1
Sample Name: 207015-13
Misc Info : soil
Vial Number: 29



File : C:\HPCHEM\2\DATA\071702\07170230.D
Operator : ccm
Acquired : 18 Jul 2002 15:53 using AcqMethod NM0716F.M
Instrument : FID-1
Sample Name: 207015-14
Misc Info : soil
Vial Number: 30



File : C:\HPCHEM\2\DATA\071702\07170231.D
Operator : ccm
Acquired : 18 Jul 2002 17:00 using AcqMethod NM0716F.M
Instrument : FID-1
Sample Name: 207015-15
Misc Info : soil
Vial Number: 31



File : C:\HPCHEM\2\DATA\071702\07170232.D
Operator : ccm
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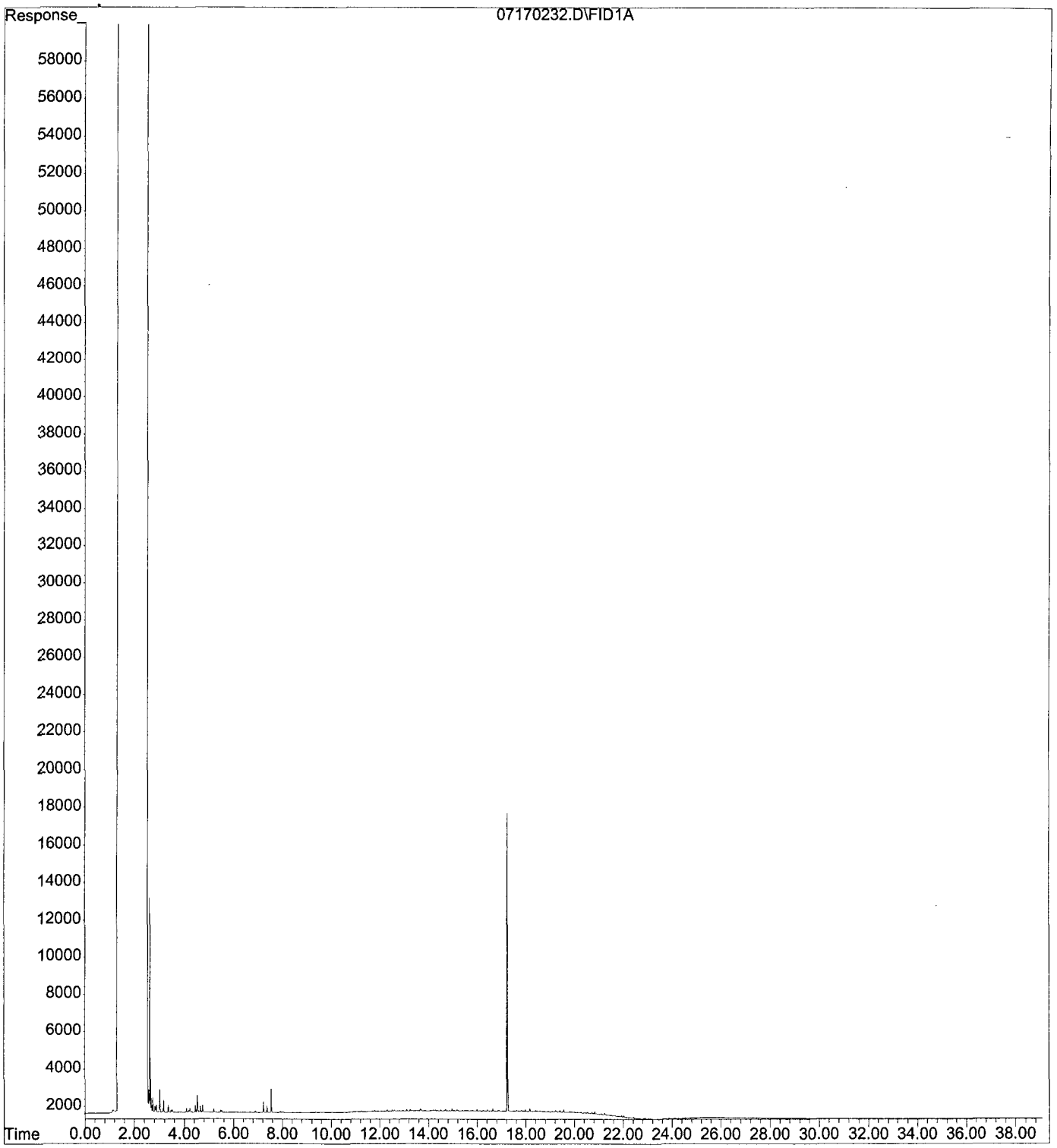
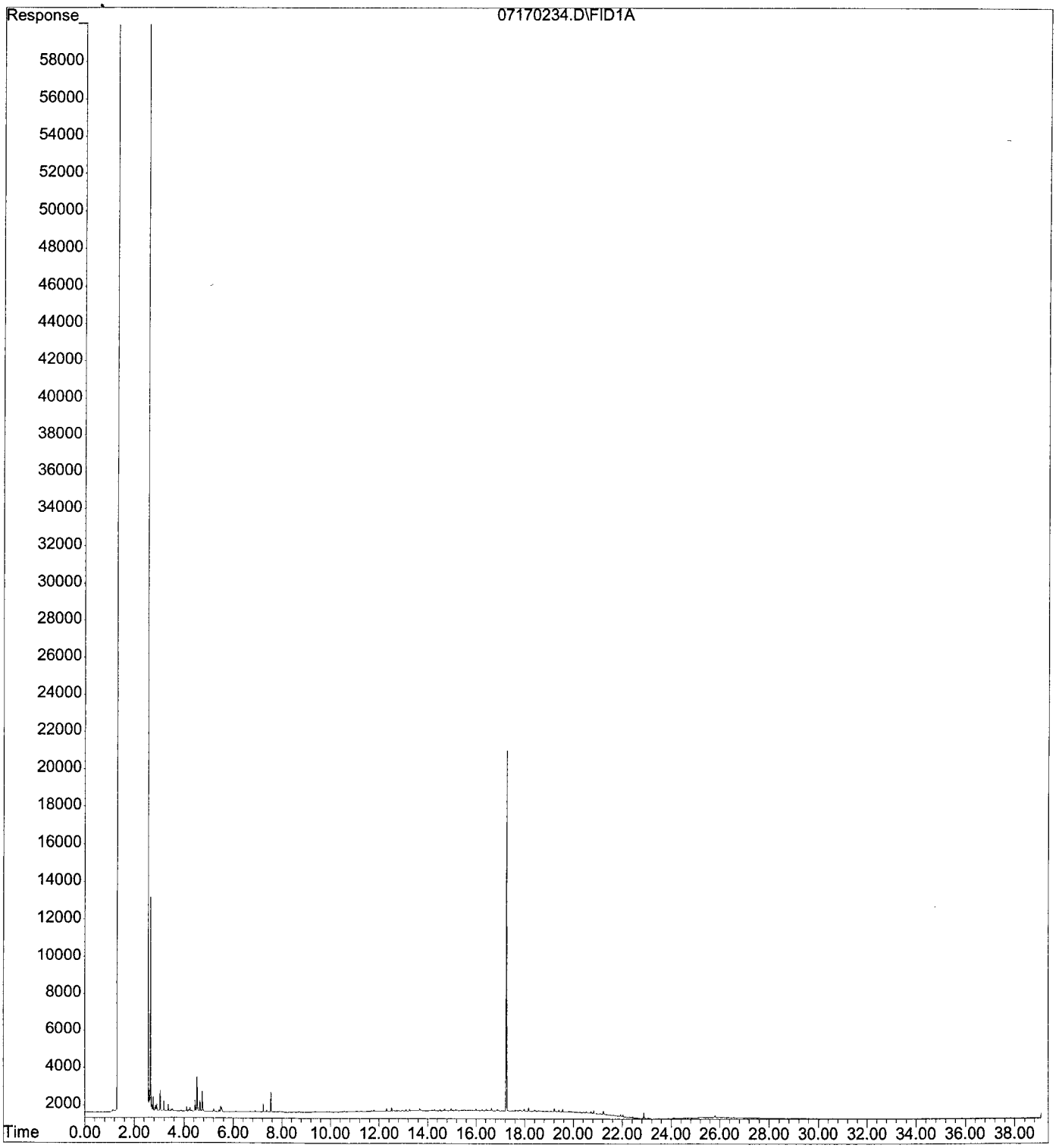
Instrument : FID-1
Sample Name: 207015-16
Misc Info : soil
Vial Number: 32



File : C:\HPCHEM\2\DATA\071702\07170234.D
Operator : ccm
Acquired : 18 Jul 2002 20:13 using AcqMethod NM0716F.M
Instrument : FID-1
Sample Name: 207015-17
Misc Info : soil
Vial Number: 34



File : C:\HPCHEM\2\DATA\071702\07170235.D
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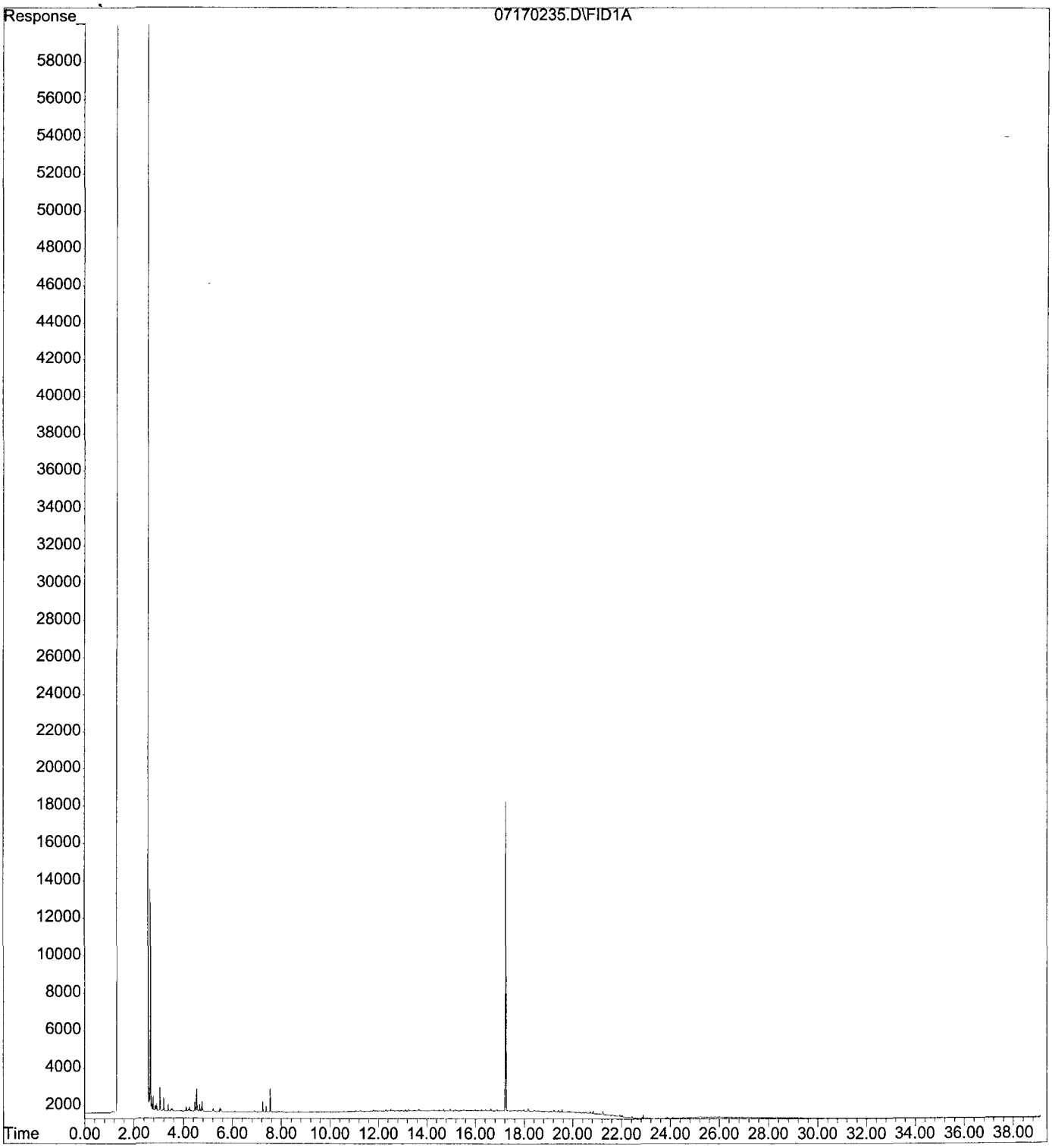
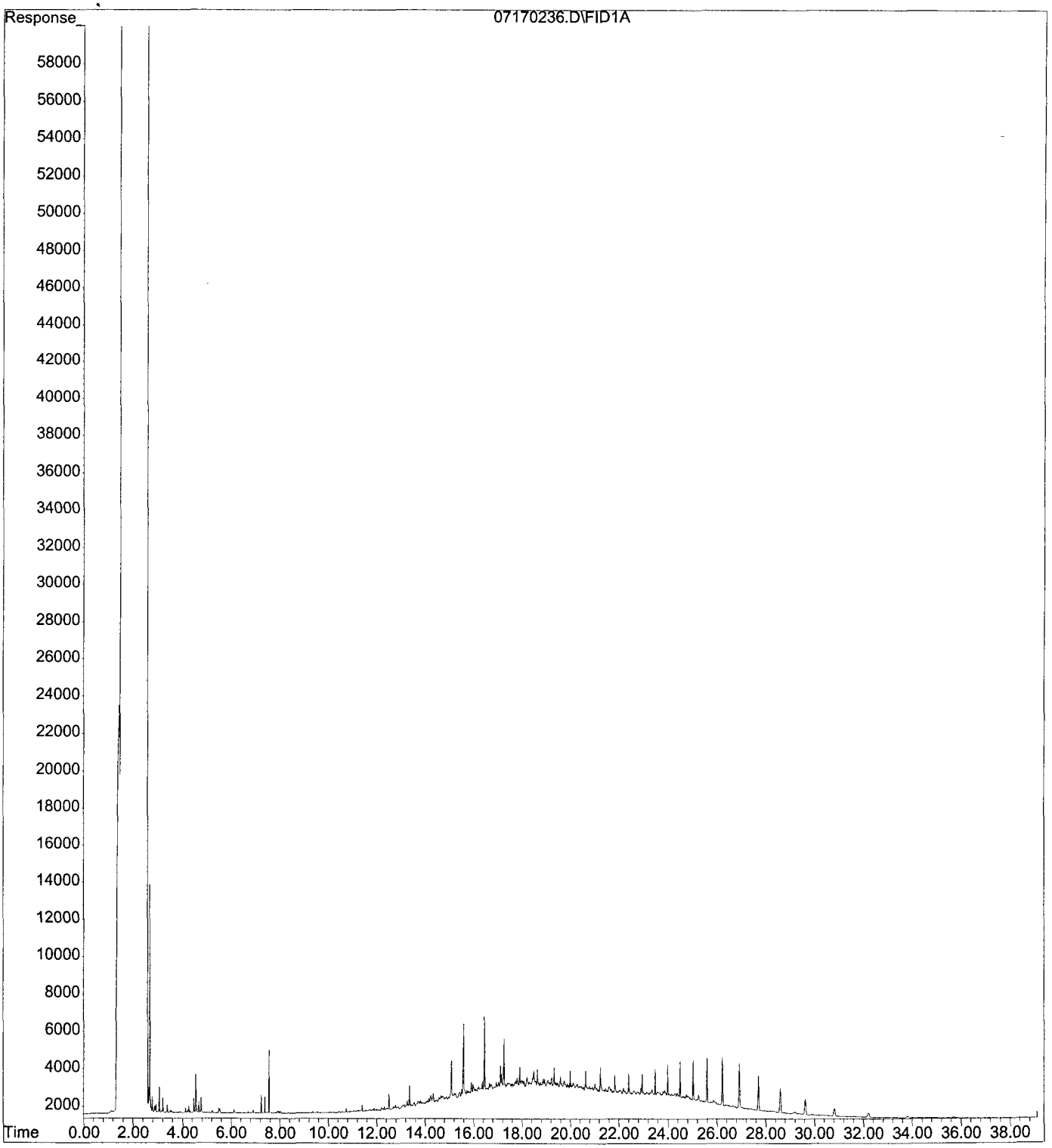
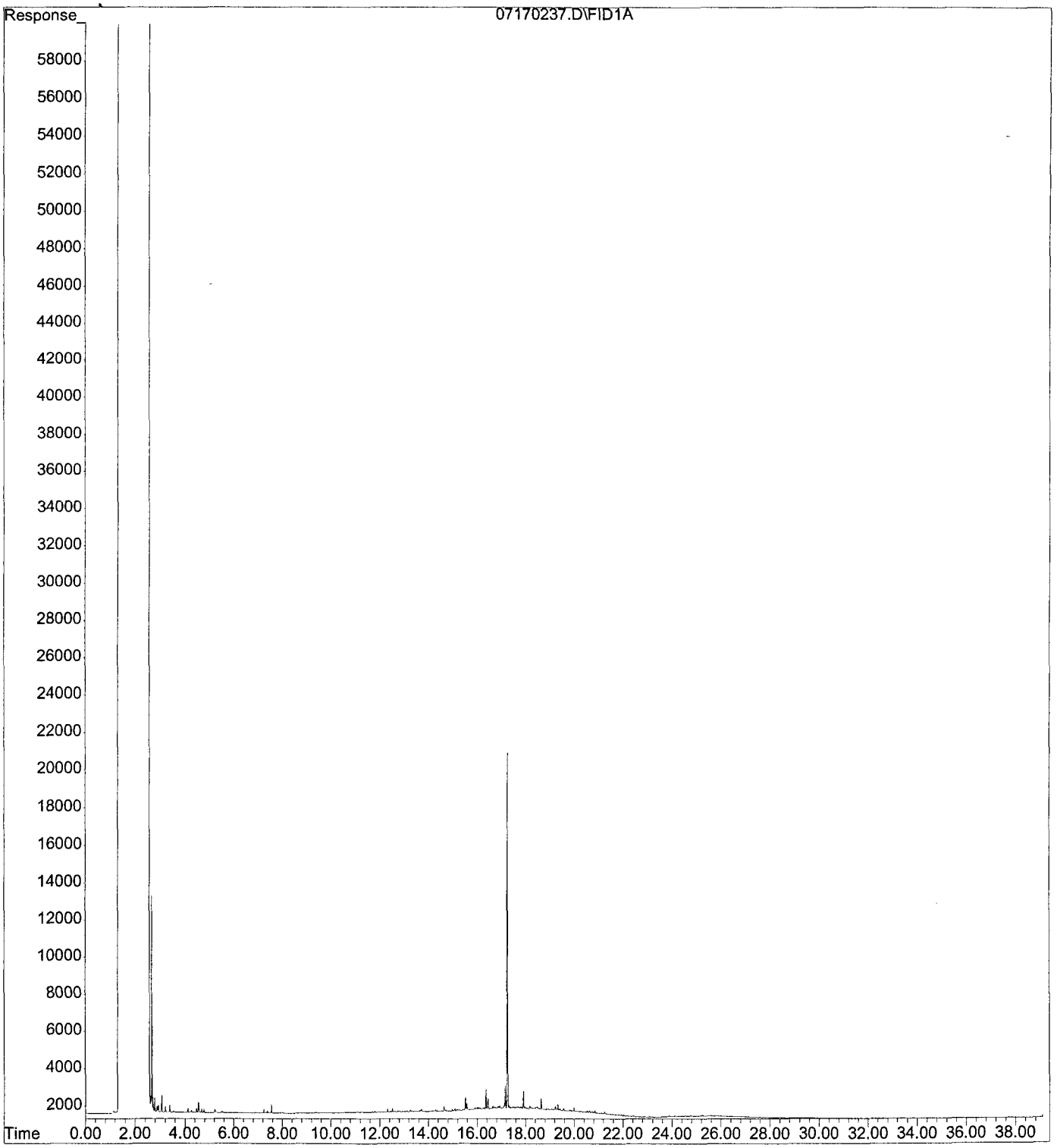
Instrument : FID-1
Sample Name: 207015-18
Misc Info : soil
Vial Number: 35



File : C:\HPCHEM\2\DATA\071702\07170236.D
Operator : ccm
Acquired : 18 Jul 2002 22:10 using AcqMethod NM0716F.M
Instrument : FID-1
Sample Name: 207015-19 (10x)
Misc Info : soil
Vial Number: 36



File : C:\HPCHEM\2\DATA\071702\07170237.D
Operator : ccm
Acquired : 18 Jul 2002 23:07 using AcqMethod NM0716F.M
Instrument : FID-1
Sample Name: 207015-20
Misc Info : soil
Vial Number: 37



File : C:\HPCHEM\2\DATA\071702\07170238.D
Operator : ccm
Acquired : 19 Jul 2002 00:03 using AcqMethod NM0716F.M
Instrument : FID-1
Sample Name: 207015-21
Misc Info : soil
Vial Number: 38