

DATA PACKAGE**GC SEMI-VOLATILES****PROJECT NAME : MTA CQ033****TECTONIC ENGINEERING****70 Pleasant Hill Road****Mountainville, NY - 10953****Phone No: 845-534-5959****ORDER ID : K4508****ATTENTION : Kristine Garbarino**

Cover Page

Order ID : K4508

Project ID : MTA CQ033

Client : Tectonic Engineering

Lab Sample Number

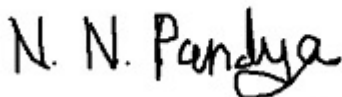
K4508-01

Client Sample Number

BLK-A4

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature :



APPROVED

By Nimisha Pandya, QA/QC Supervisor at 2:14 pm, Sep 06, 2019

CASE NARRATIVE**Tectonic Engineering****Project Name: MTA CQ033****Project # N/A****Chemtech Project # K4508****Test Name: Fingerprint****A. Number of Samples and Date of Receipt:**

1 Water sample was received on 08/23/2019.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: EPH_NF, Fingerprint, Flash Point, Mercury, Metals ICP-RCRA, METALS-RCRA and PCB. This data package contains results for Fingerprint .

C. Analytical Techniques:

The analysis was performed on instrument FID_E. The column is RXI-1MS which is 20 meters, 0.18mm ID, 0.18 um df, catalog 10224. The method of analysis was 8015D and extraction was done based on method 3580A.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Blank Spike met requirements for all samples.

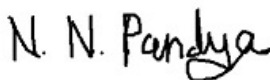
The Blank Spike Duplicate met requirements for all samples.

The Blank analysis did not indicate the presence of lab contamination.

E. Additional Comments:**F. Manual Integration Comments:**

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_____

**APPROVED**

By Nimisha Pandya, QA QC Supervisor at 2:14 pm, Sep 06, 2019

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following "Results Qualifiers" are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10 U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
ND	Indicates the analyte was analyzed for, but not detected
J	Indicates an estimated value. This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as "12 B".
E	Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a "P".
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.
Q	Indicates the LCS did not meet the control limits requirements

APPENDIX A**QA REVIEW GENERAL DOCUMENTATION**

Project #: K4508

Completed

For thorough review, the report must have the following:

GENERAL:

Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)

✓

Check chain-of-custody for proper relinquish/return of samples

✓

Is the chain of custody signed and complete

✓

Check internal chain-of-custody for proper relinquish/return of samples /sample extracts

✓

Collect information for each project id from server. Were all requirements followed

✓

COVER PAGE:

Do numbers of samples correspond to the number of samples in the Chain of Custody on login page

✓

Do lab numbers and client Ids on cover page agree with the Chain of Custody

✓

CHAIN OF CUSTODY:

Do requested analyses on Chain of Custody agree with form I results

✓

Do requested analyses on Chain of Custody agree with the log-in page

✓

Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody

✓

Were the samples received within hold time

✓

Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

1st Level QA Review Signature: MOHINI SONI

Date: 09/02/2019

2nd Level QA Review Signature:

REVIEWED

By Jennifer Harrison, QC Reviewer at 1:39 pm, Sep 06, 2019

Date: _____

LABORATORY CHRONICLE
QUALITATIVE GC FINGERPRINT BY METHOD 8015

Client: Tectonic Engineering
Project: MTA CQ033
DATE RECEIVED: 08/23/19

<u>SAMPLE DESCRIPTION/LOCATION</u>	<u>LAB ID</u>	<u>DATE</u> <u>SAMPLED</u>	<u>DATE</u> <u>EXTRACTED</u>	<u>DATE</u> <u>ANALYZED</u>	<u>ANALYST</u>
BLK-A4	K4508-01	08/23/19	08/26/19	08/29/19	DD

QC
SUMMARY

**TABULATED ANALYTICAL REPORT
QUALITATIVE GC FINGERPRINT**

MATRIX: WATER
DATE EXTRACTED: 08/26/19
LAB FILE: FE030307.D

ANALYSIS DATE : 08/29/19

LAB ID
METHOD BLANK (IPB117924BL)

FUEL TYPE
ND

COMMENTS:

A=GASOLINE
B=UNKNOWN FUEL OIL
C= #2 FUEL OIL
D= #4 FUEL OIL
G= #5 FUEL OIL
H= #6 FUEL OIL
N = JET FUEL STANDARD
F=KEROSENE
CT= COAL TAR
PT= PAINT THINNER

K= 30 W LUBRICATING OIL
L= 40 W LUBRICATING OIL
M= 50 W LUBRICATING OIL
ND = NOT DETECTED (CONC)
MS= MINERAL SPIRITS
O= HYDRAULIC OIL
E= NO CALIBRATED STANDARDS DETECTED
CS= CLIENT STANDARDS
WM= WEATHERED MOTOR OIL

SAMPLE DATA

**TABULATED ANALYTICAL REPORT
QUALITATIVE GC FINGERPRINT 8015**

CLIENT: Tectonic Engineering

CLIENT PROJECT : MTA CQ033
REPORT DATE: 08/30/19
PROJECT RECEIVED DATE : 08/23/19
ANALYSIS DATE 08/29/19
EXT. DATE: 08/26/19
MATRIX: WATER
LAB PROJECT: K4508

CLIENT ID	FILE ID	LAB ID	FUEL TYPE
BLK-A4	FE030310.D	K4508-01	E

COMMENTS:

A= GASOLINE

B= UNKNOWN FUEL OIL

C= #DIESEL FUEL OIL#2

D= #4 FUEL OIL

G= #5 FUEL OIL

H= #6 FUEL OIL

N = JET FUEL STANDARD

E= NO CALIBRATED STANDARDS DETECTED

CS= CLIENT STANDARDS(DIELECTRIC FLUID)

WM= WEATHERED MOTOR OIL

WO= WEATHERED HYDRAULIC OIL

K= 30 W LUBRICATING OIL

L= 40 W LUBRICATING OIL

M= 50 W LUBRICATING OIL

ND = NOT DETECTED (CONC)

MS= MINERAL SPIRITS

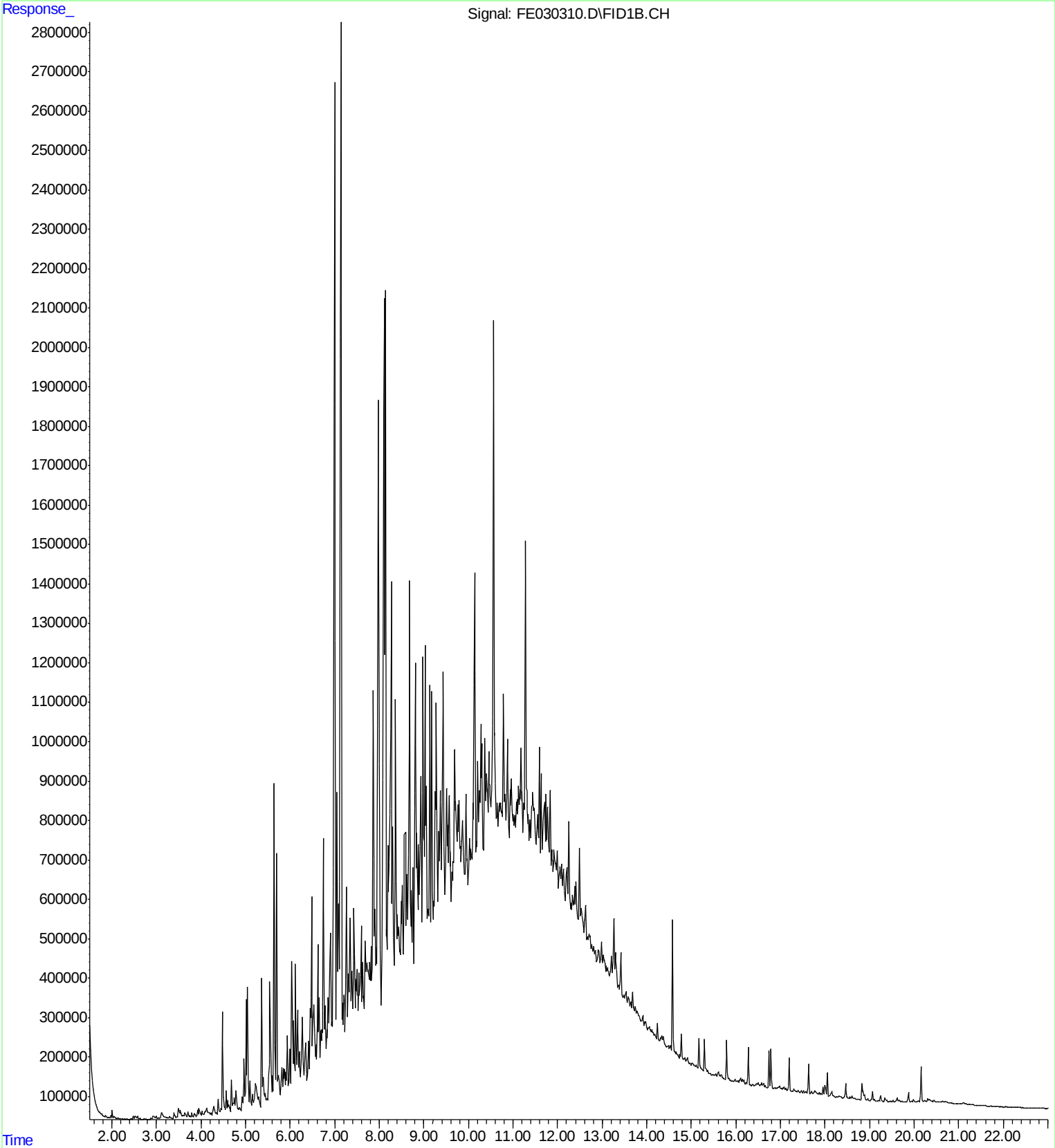
O= HYDRAULIC OIL

F=KEROSENE

CT= COAL TAR

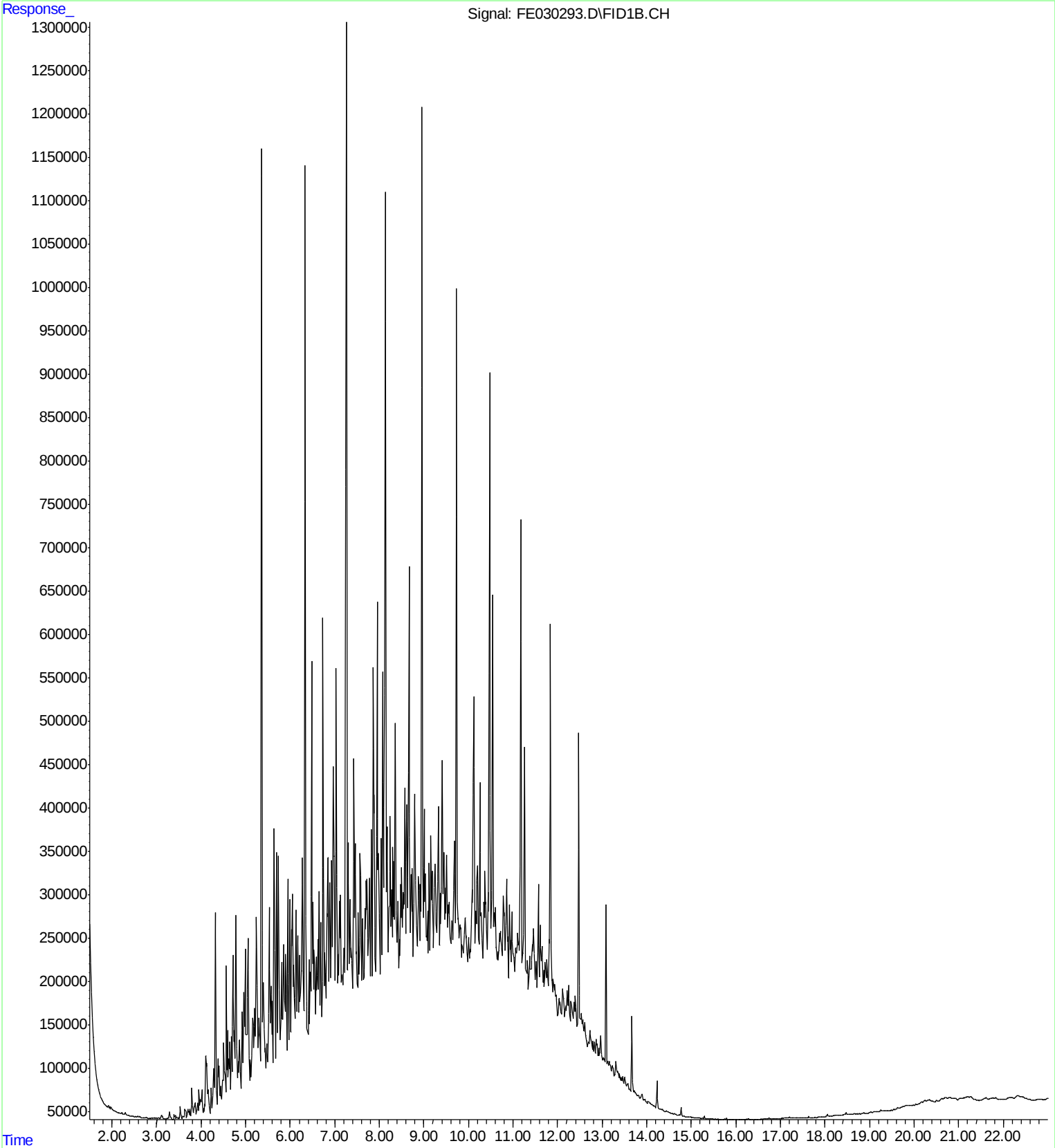
PT= PAINT THINNER

File :Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE082819\FE030310.D
Operator : AJ\SJ
Acquired : 29 Aug 2019 3:50 using AcqMethod 8015C.M
Instrument : Instrumen
Sample Name: K4508-01
Misc Info :
Vial Number: 19

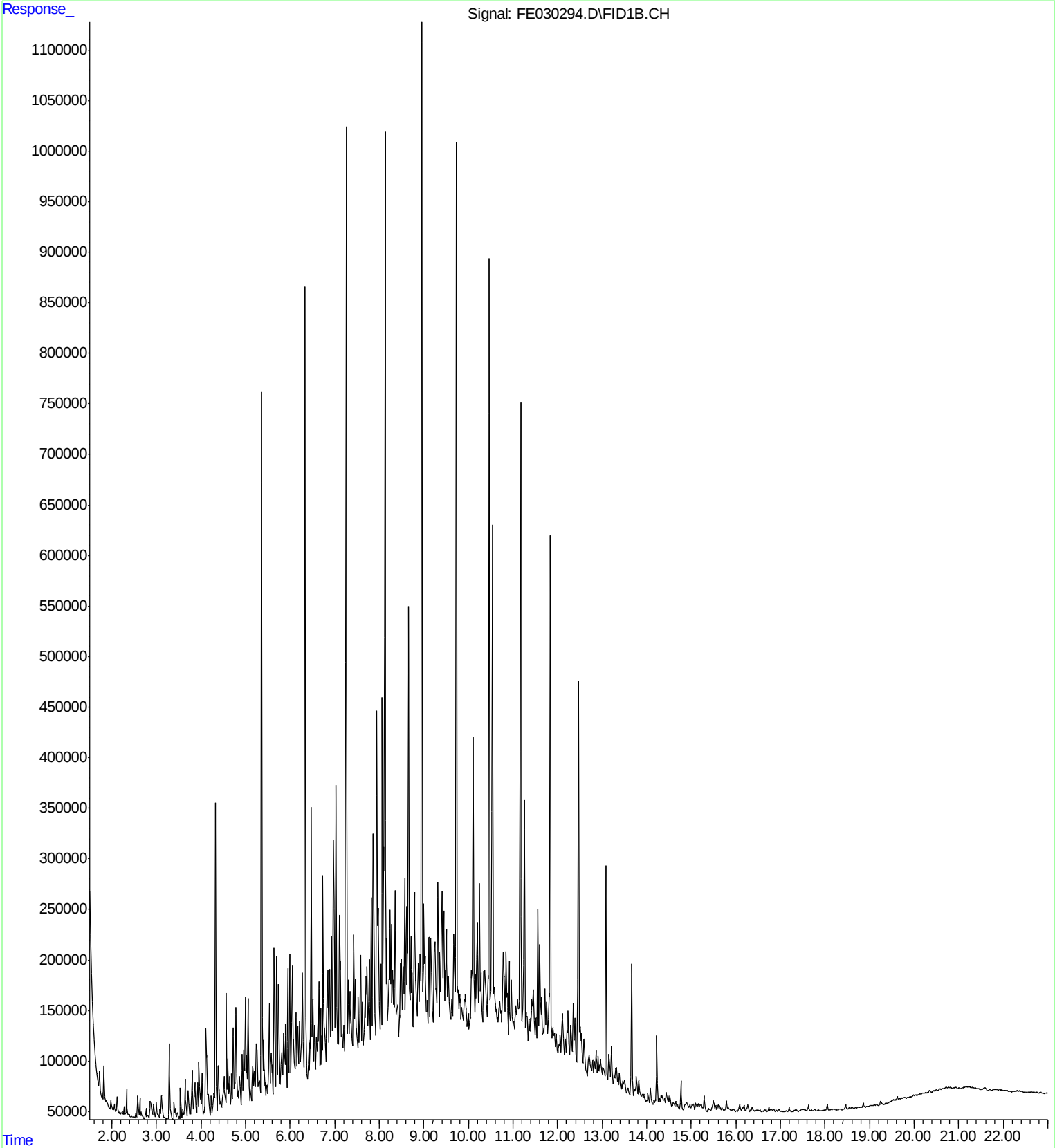


CALIBRATION SUMMARY

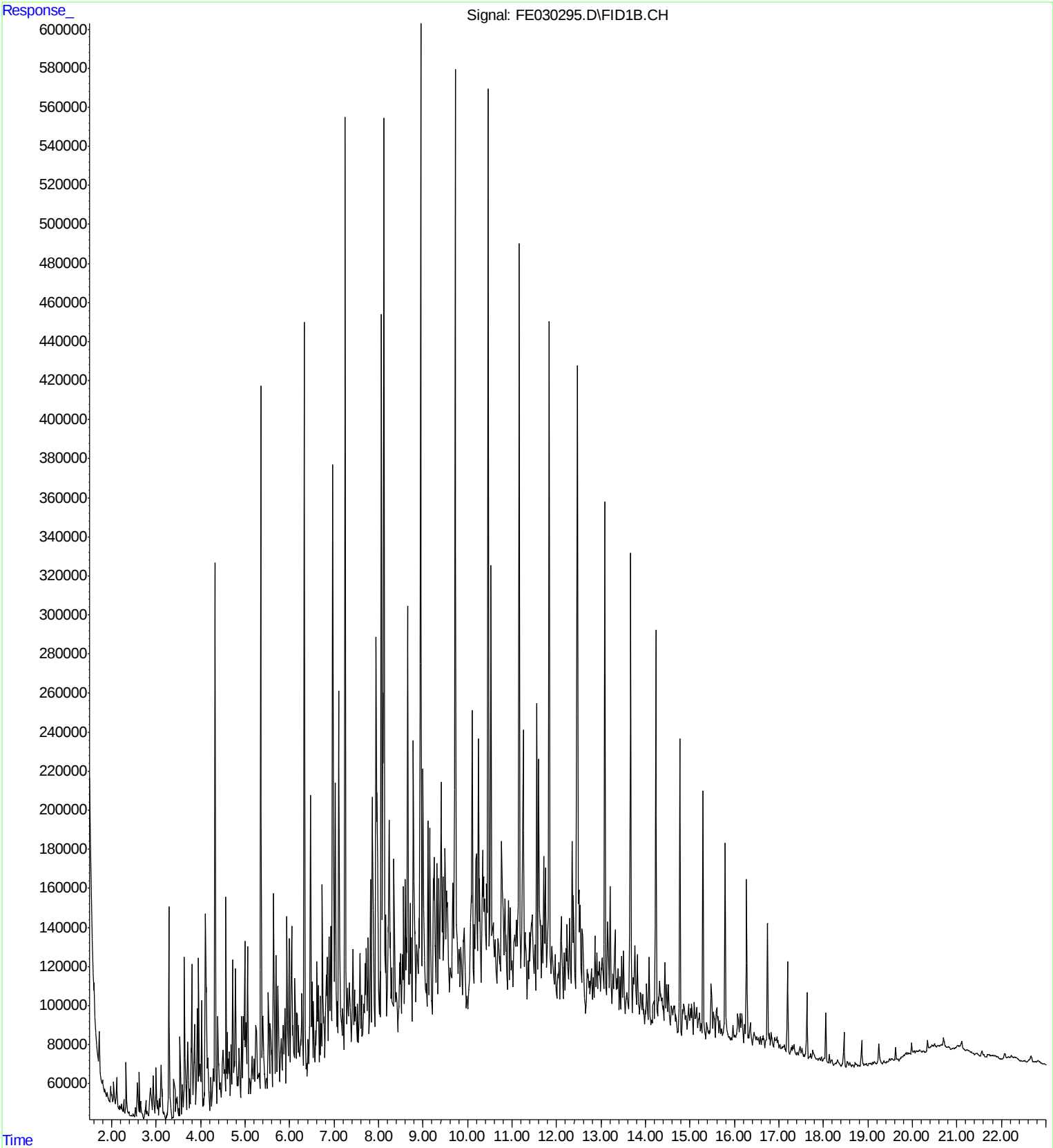
File :Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE082819\FE030293.D
Operator : AJ\SJ
Acquired : 28 Aug 2019 16:33 using AcqMethod 8015C.M
Instrument : Instrumen
Sample Name: DIESEL FUEL#2
Misc Info :
Vial Number: 2



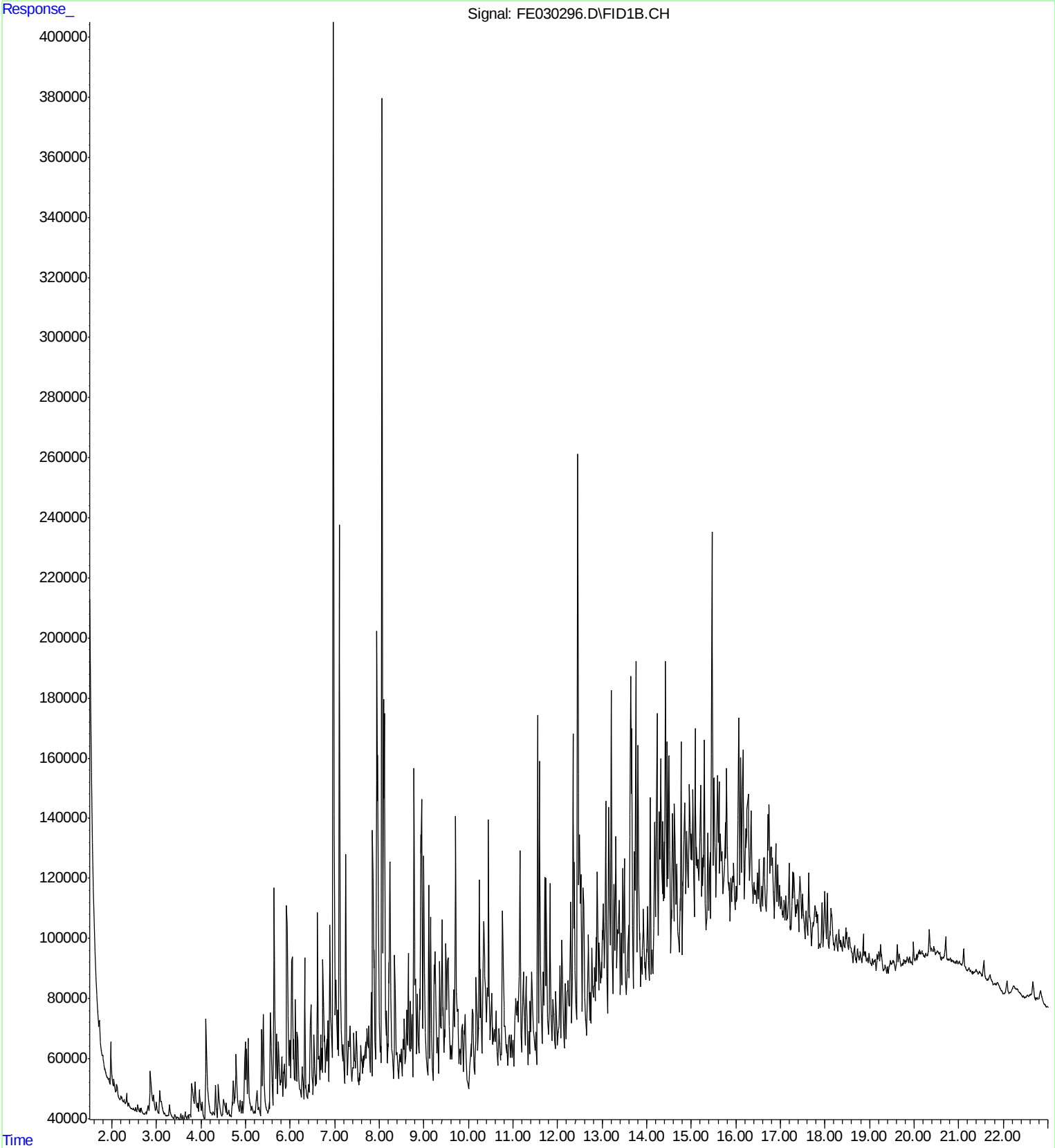
File :Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE082819\FE030294.D
Operator : AJ\SJ
Acquired : 28 Aug 2019 17:09 using AcqMethod 8015C.M
Instrument : Instrumen
Sample Name: #4 FUEL OIL STD
Misc Info :
Vial Number: 3



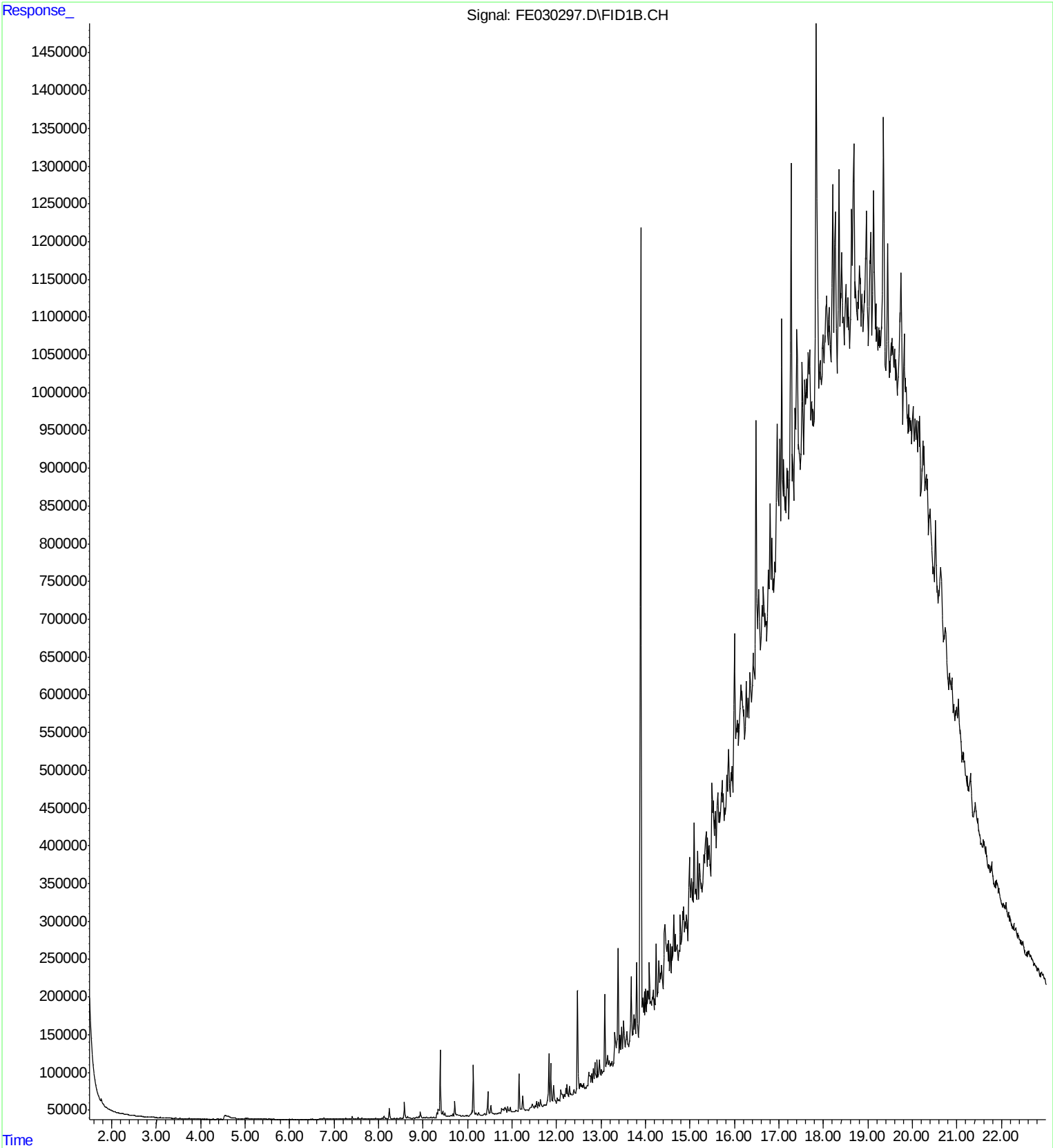
File :Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE082819\FE030295.D
Operator : AJ\SJ
Acquired : 28 Aug 2019 17:44 using AcqMethod 8015C.M
Instrument : Instrumen
Sample Name: #5 FUEL OIL STD
Misc Info :
Vial Number: 4



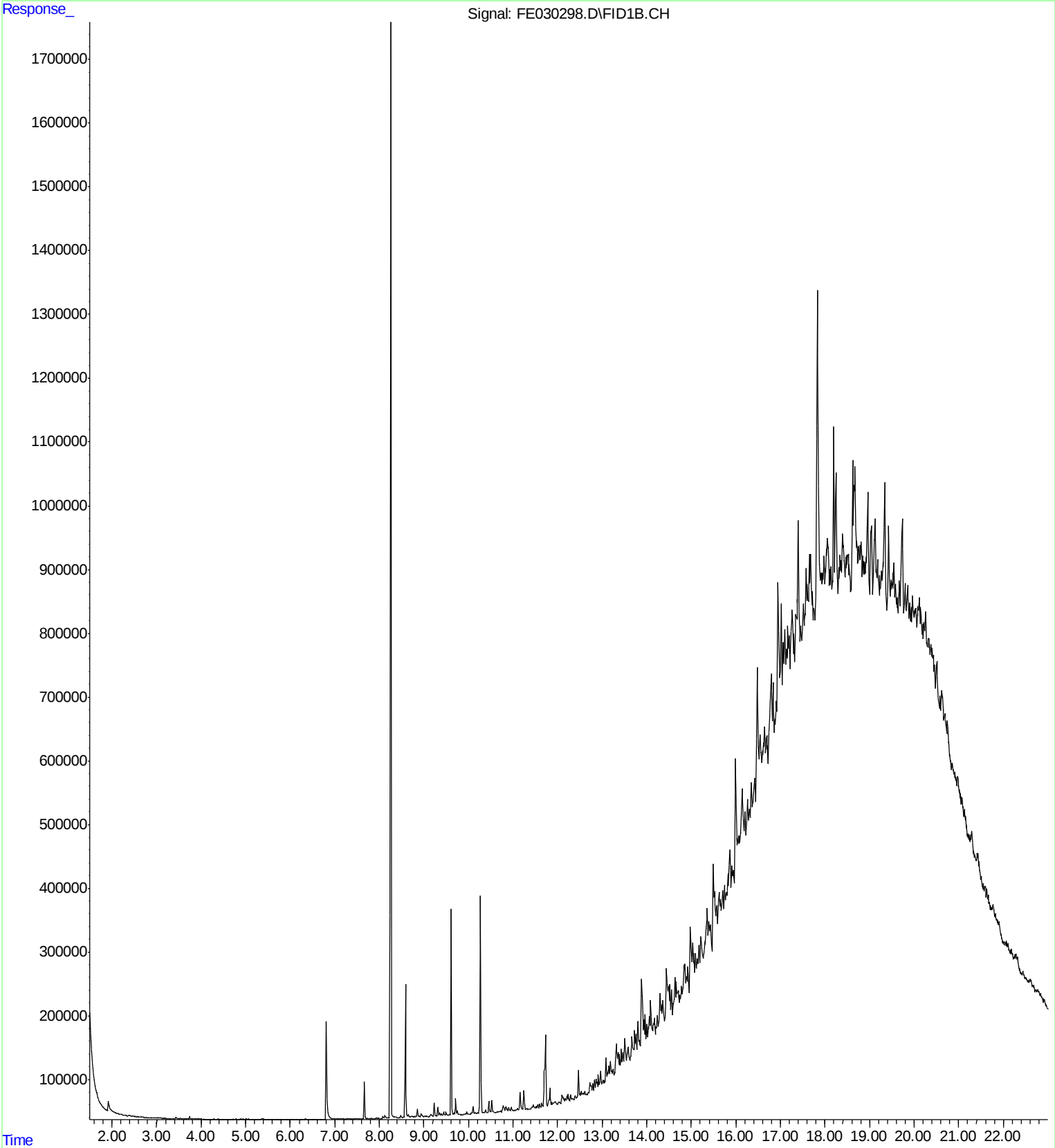
File :Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE082819\FE030296.D
Operator : AJ\SJ
Acquired : 28 Aug 2019 18:20 using AcqMethod 8015C.M
Instrument : Instrumen
Sample Name: #6 FUEL OIL STD
Misc Info :
Vial Number: 5



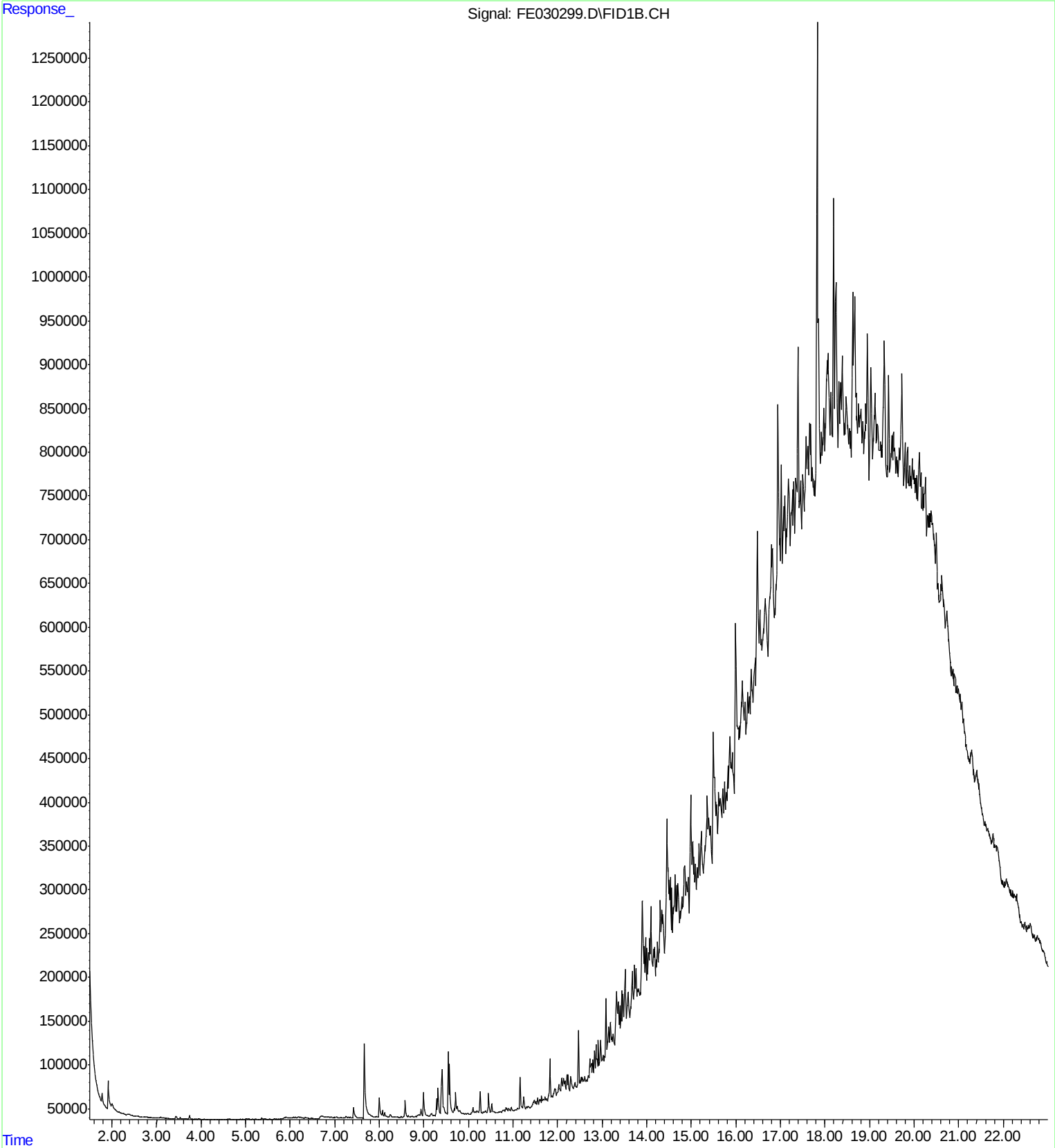
File :Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE082819\FE030297.D
Operator : AJ\SJ
Acquired : 28 Aug 2019 18:56 using AcqMethod 8015C.M
Instrument : Instrumen
Sample Name: MOTOR OIL 30
Misc Info :
Vial Number: 6



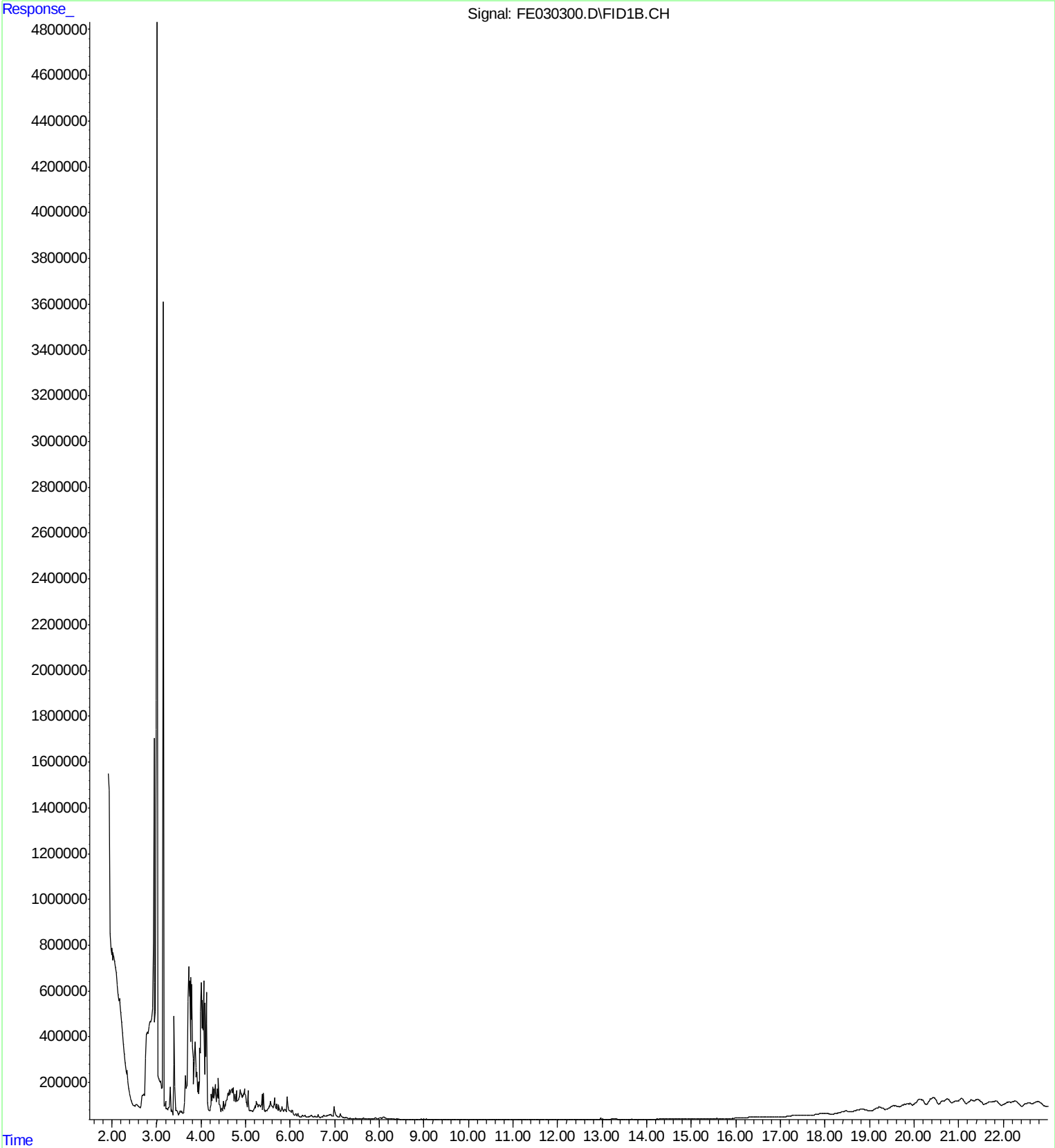
File :Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE082819\FE030298.D
Operator : AJ\SJ
Acquired : 28 Aug 2019 19:31 using AcqMethod 8015C.M
Instrument : Instrumen
Sample Name: MOTOR OIL 40
Misc Info :
Vial Number: 7



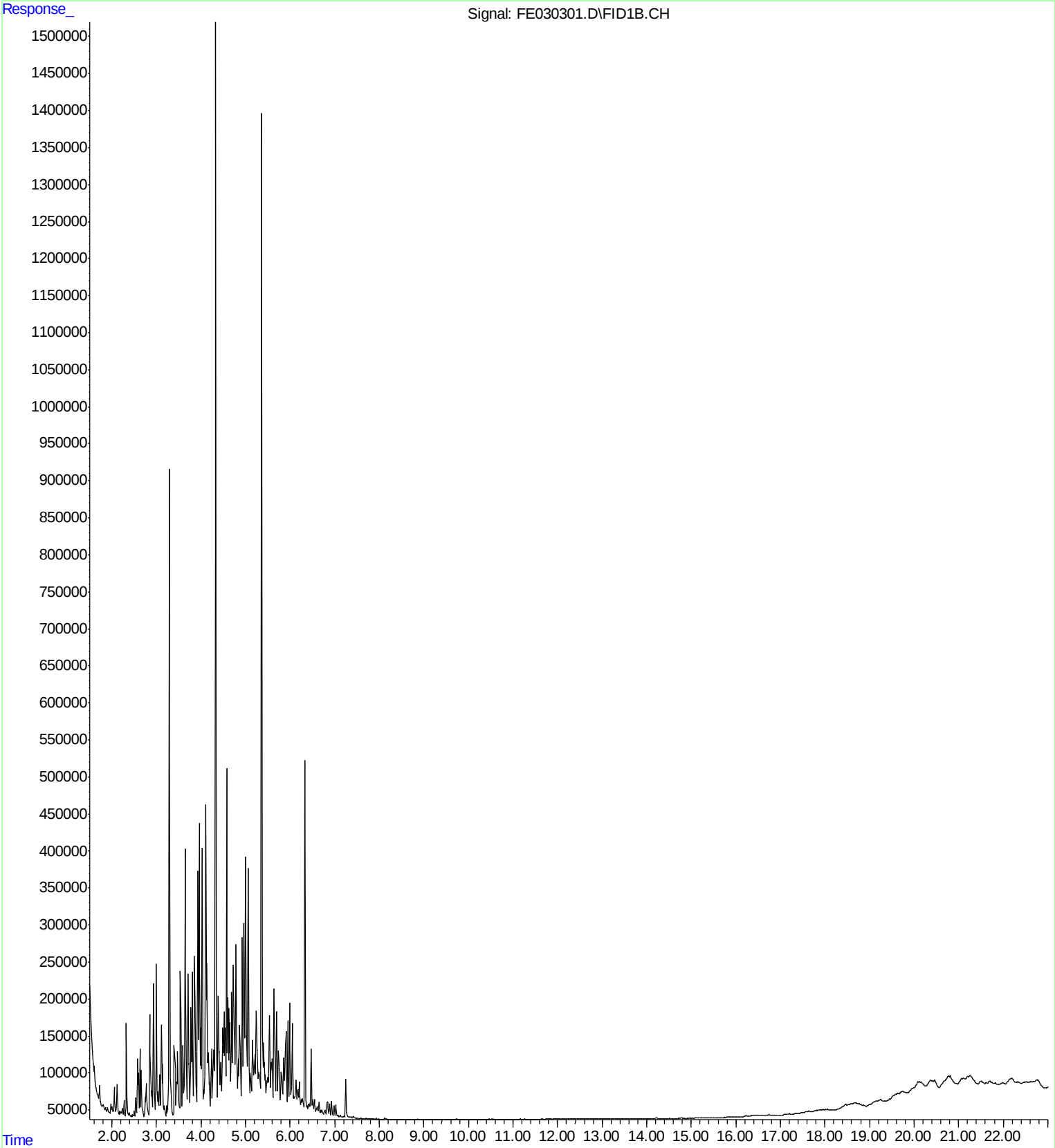
File :Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE082819\FE030299.D
Operator : AJ\SJ
Acquired : 28 Aug 2019 20:07 using AcqMethod 8015C.M
Instrument : Instrumen
Sample Name: MOTOR OIL 50
Misc Info :
Vial Number: 8



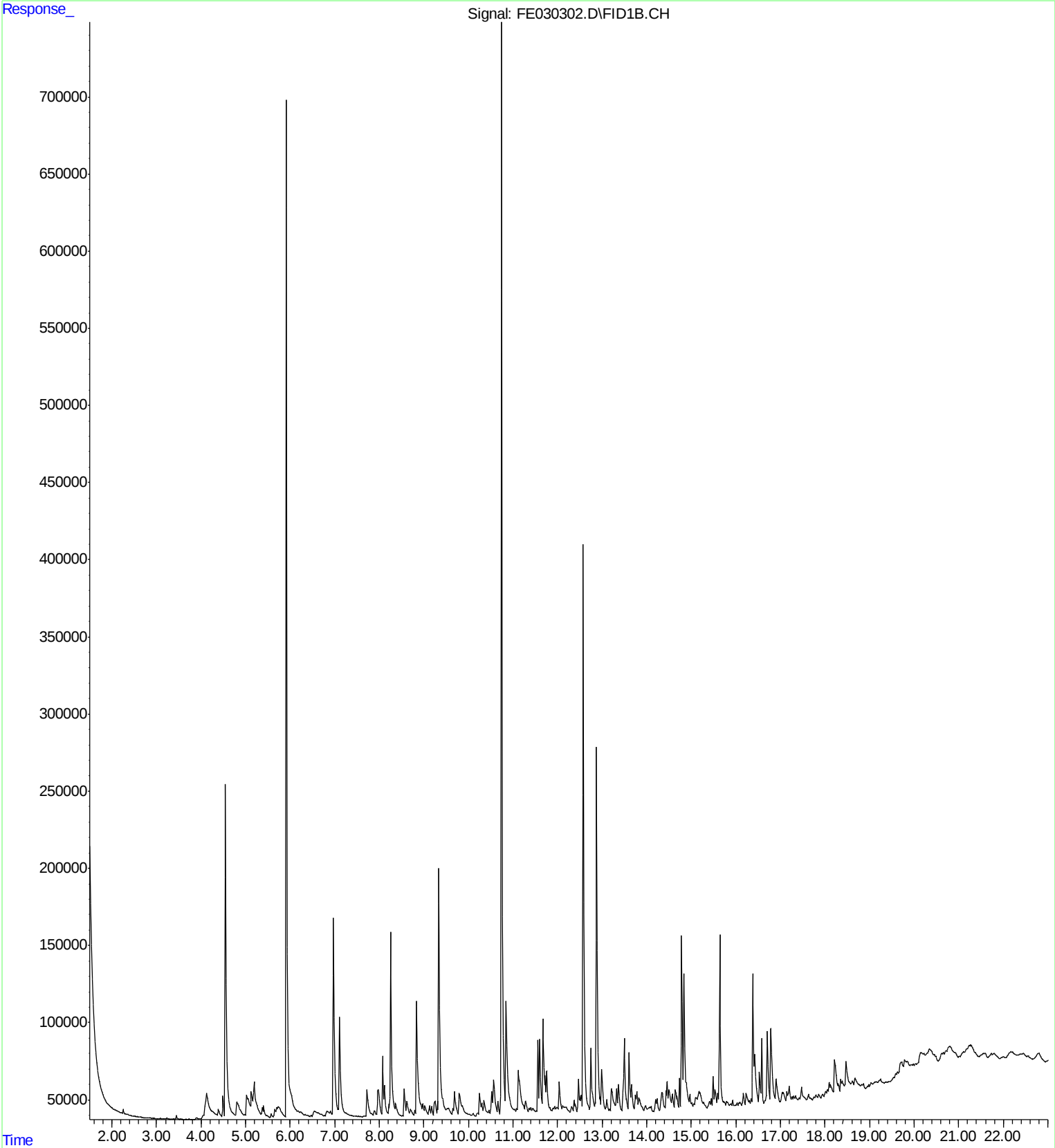
File :Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE082819\FE030300.D
Operator : AJ\SJ
Acquired : 28 Aug 2019 20:43 using AcqMethod 8015C.M
Instrument : Instrumen
Sample Name: UNLEADED GASOLINE
Misc Info :
Vial Number: 9



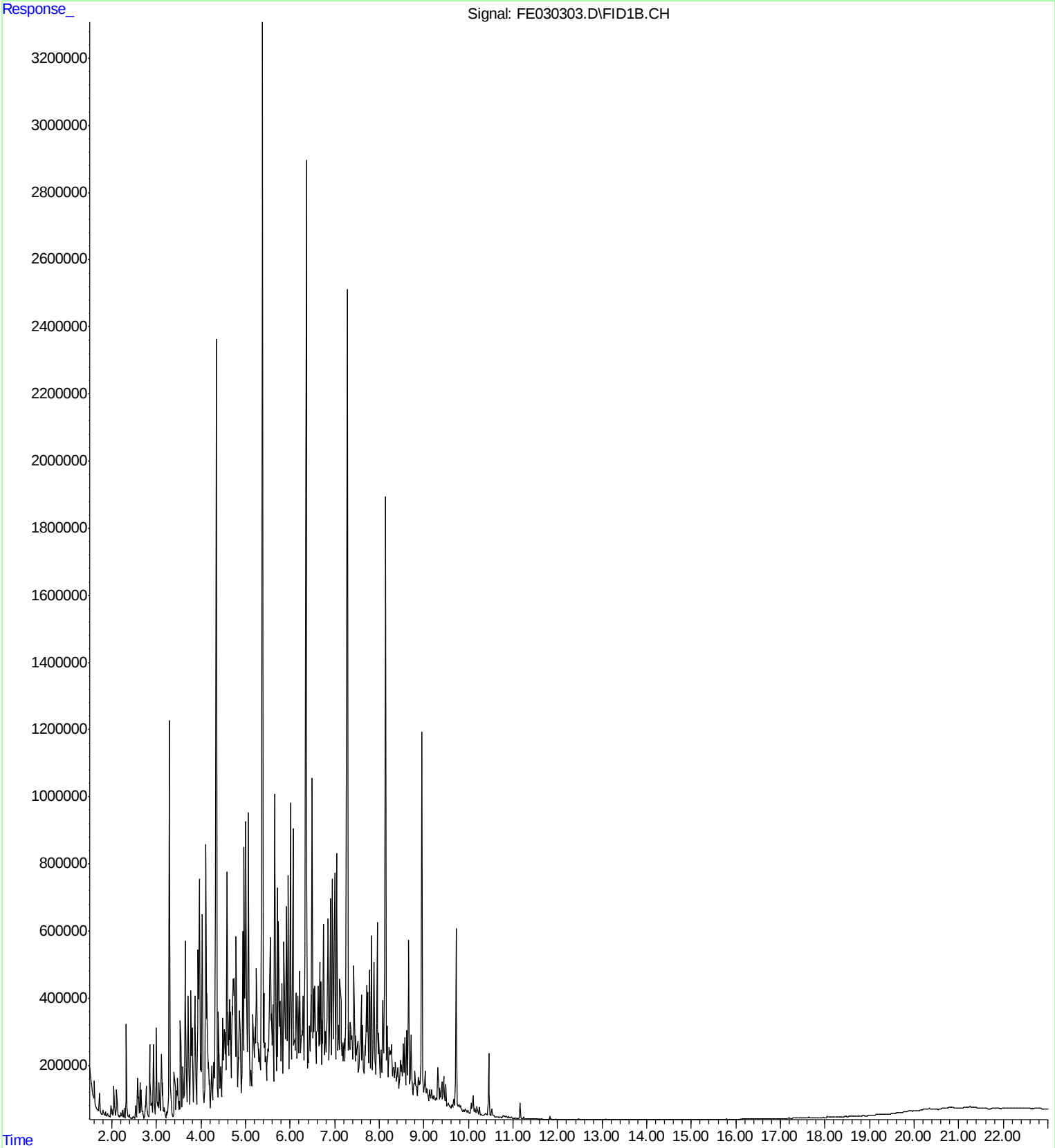
File :Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE082819\FE030301.D
Operator : AJ\SJ
Acquired : 28 Aug 2019 21:19 using AcqMethod 8015C.M
Instrument : Instrumen
Sample Name: PAINT THINNER
Misc Info :
Vial Number: 10



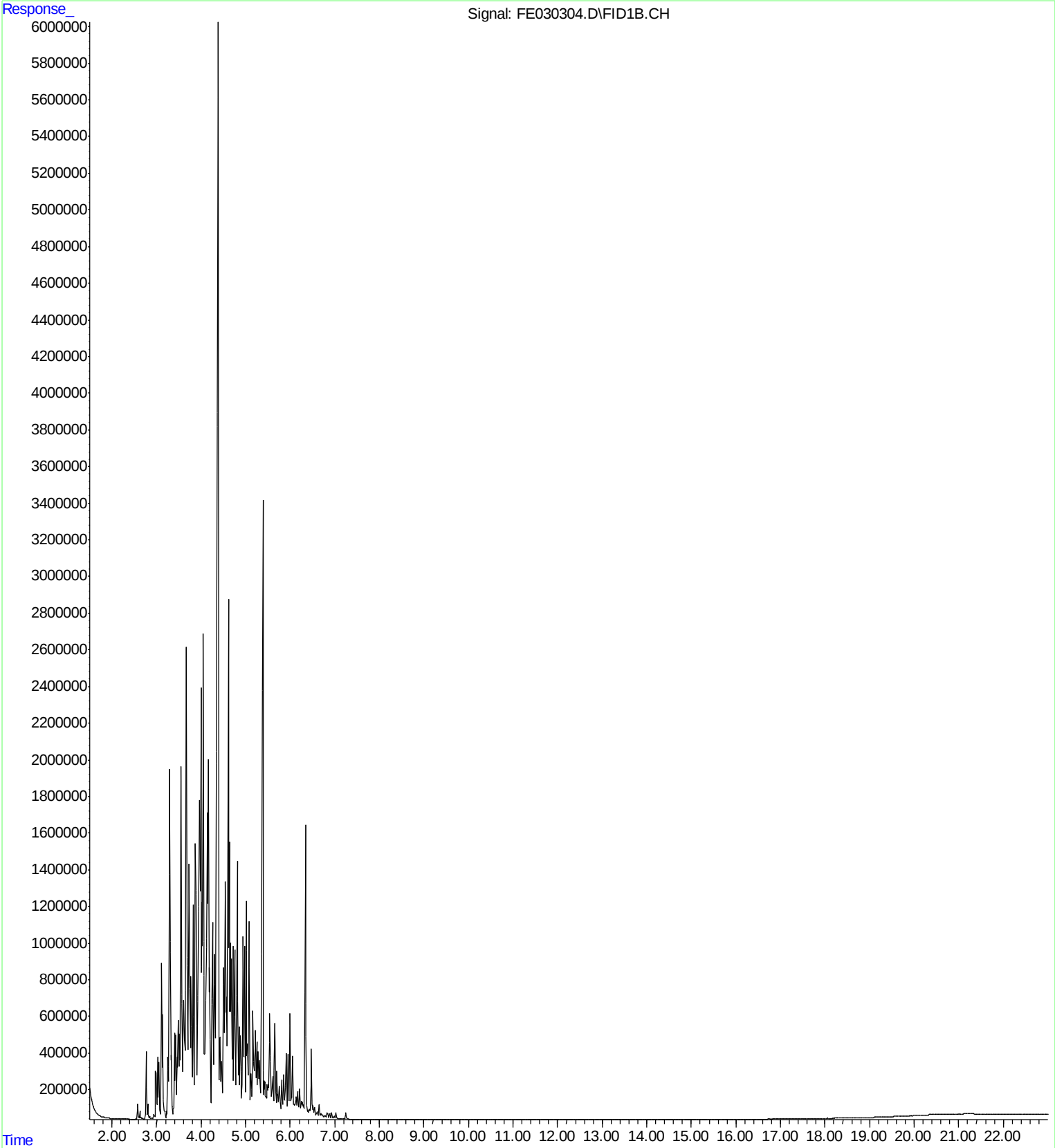
File :Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE082819\FE030302.D
Operator : AJ\SJ
Acquired : 28 Aug 2019 21:54 using AcqMethod 8015C.M
Instrument : Instrumen
Sample Name: COAL TAR
Misc Info :
Vial Number: 11



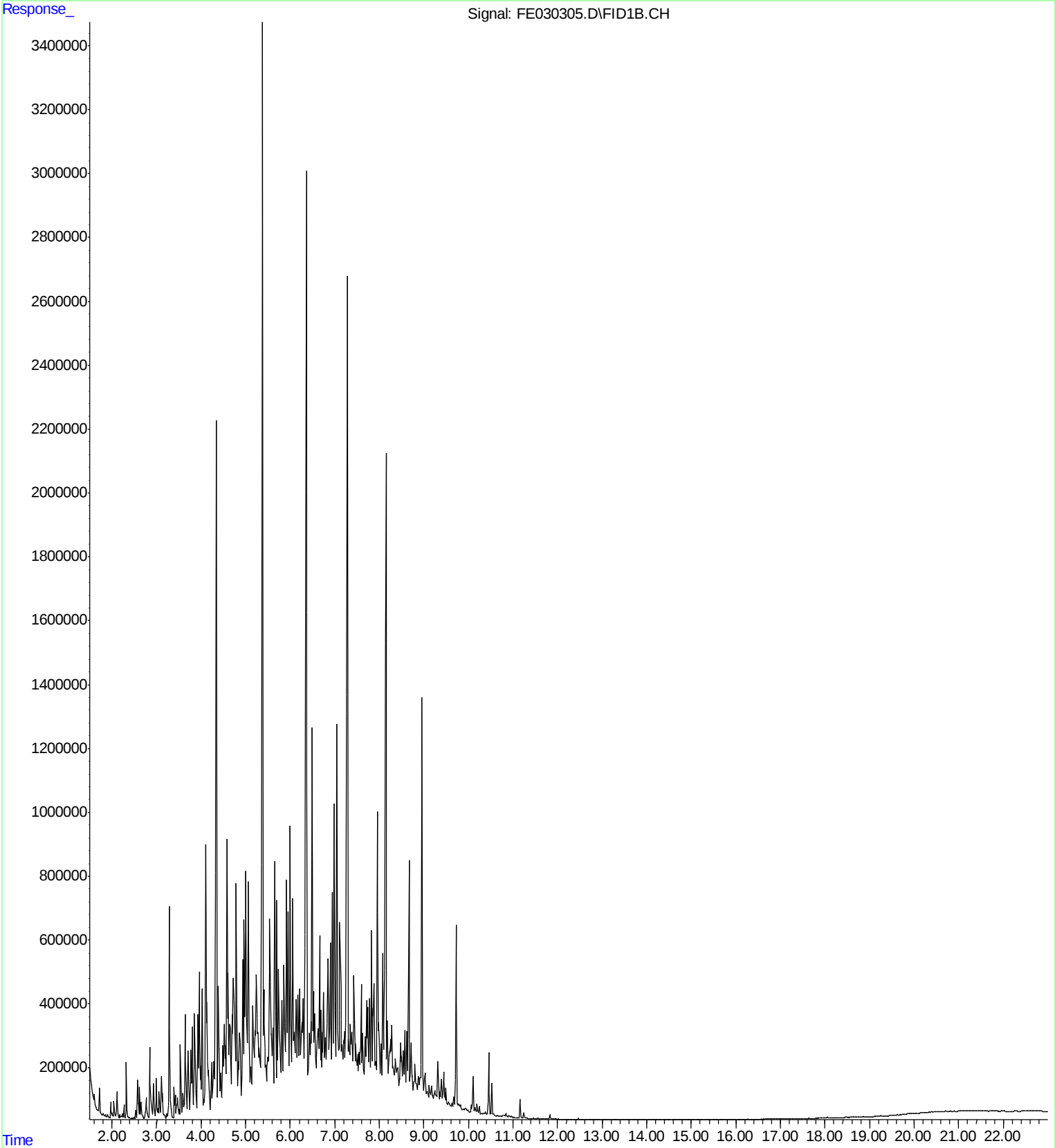
File :Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE082819\FE030303.D
Operator : AJ\SJ
Acquired : 28 Aug 2019 22:30 using AcqMethod 8015C.M
Instrument : Instrumen
Sample Name: JET FUEL A STD
Misc Info :
Vial Number: 12



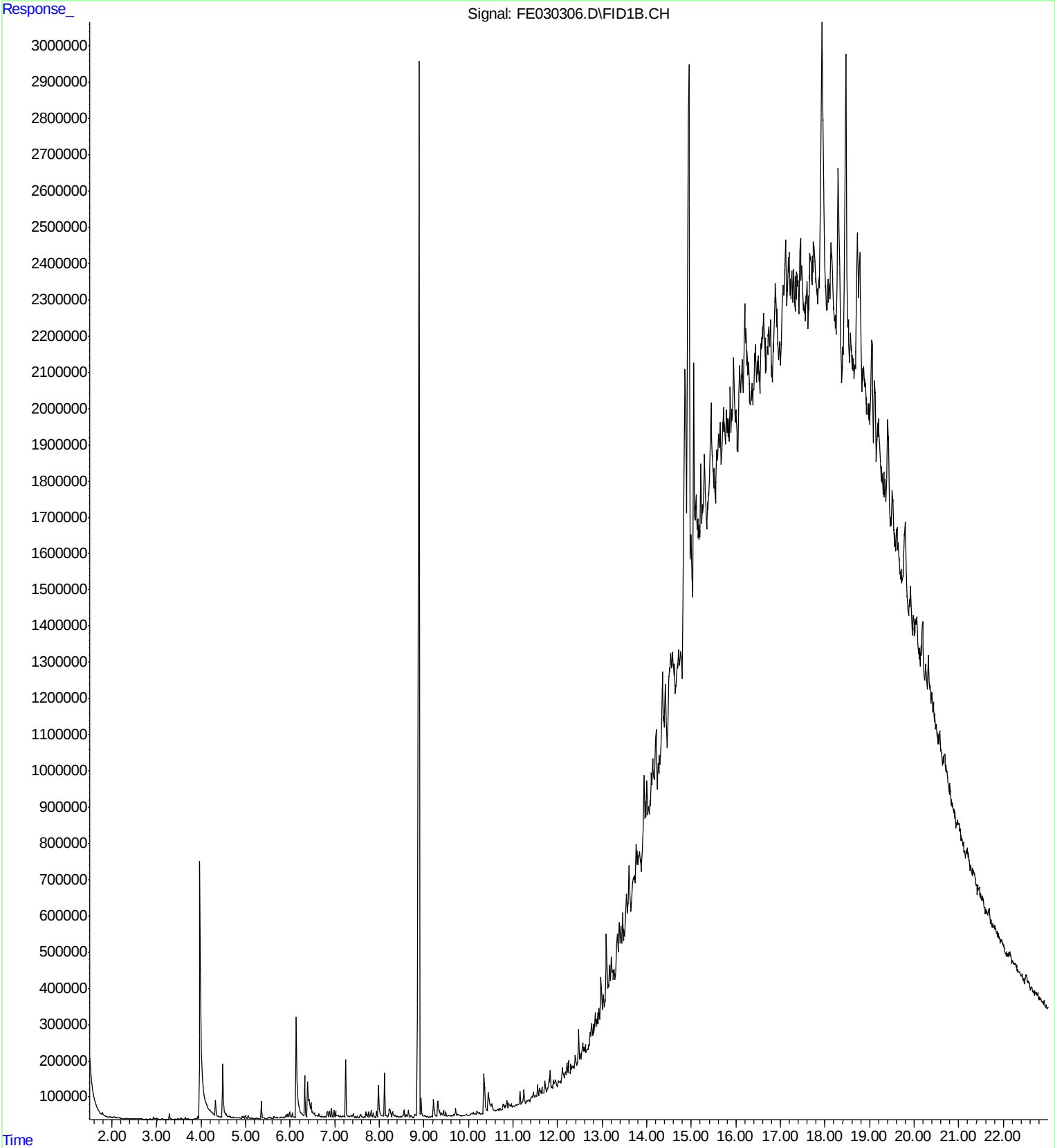
File :Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE082819\FE030304.D
Operator : AJ\SJ
Acquired : 28 Aug 2019 23:06 using AcqMethod 8015C.M
Instrument : Instrumen
Sample Name: MINERAL SPIRIT STD
Misc Info :
Vial Number: 13



File :Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE082819\FE030305.D
Operator : AJ\SJ
Acquired : 28 Aug 2019 23:41 using AcqMethod 8015C.M
Instrument : Instrumen
Sample Name: KEROSENE STD
Misc Info :
Vial Number: 14

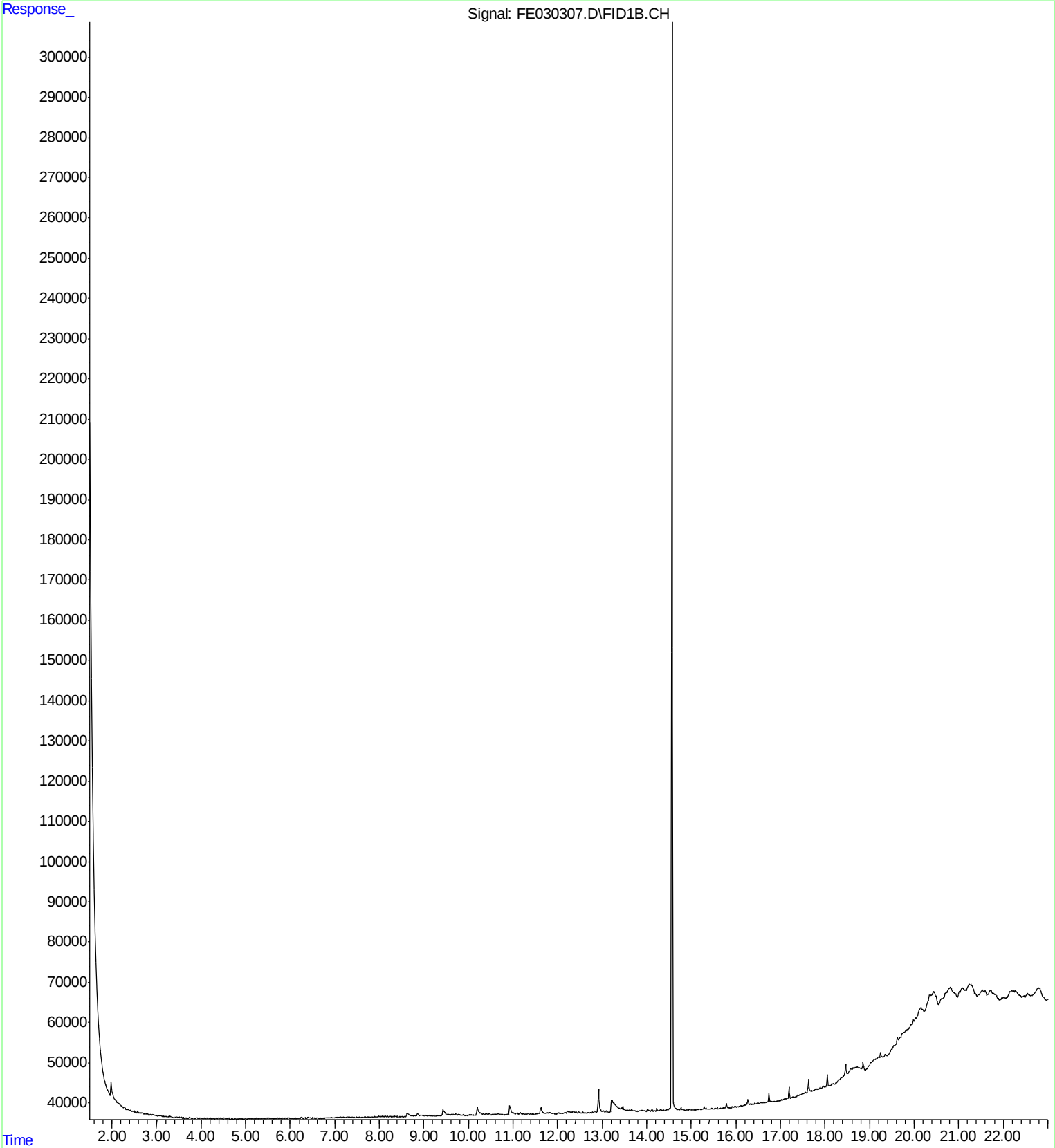


File :Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE082819\FE030306.D
Operator : AJ\SJ
Acquired : 29 Aug 2019 00:17 using AcqMethod 8015C.M
Instrument : Instrumen
Sample Name: HYDRAULIC OIL STD
Misc Info :
Vial Number: 15

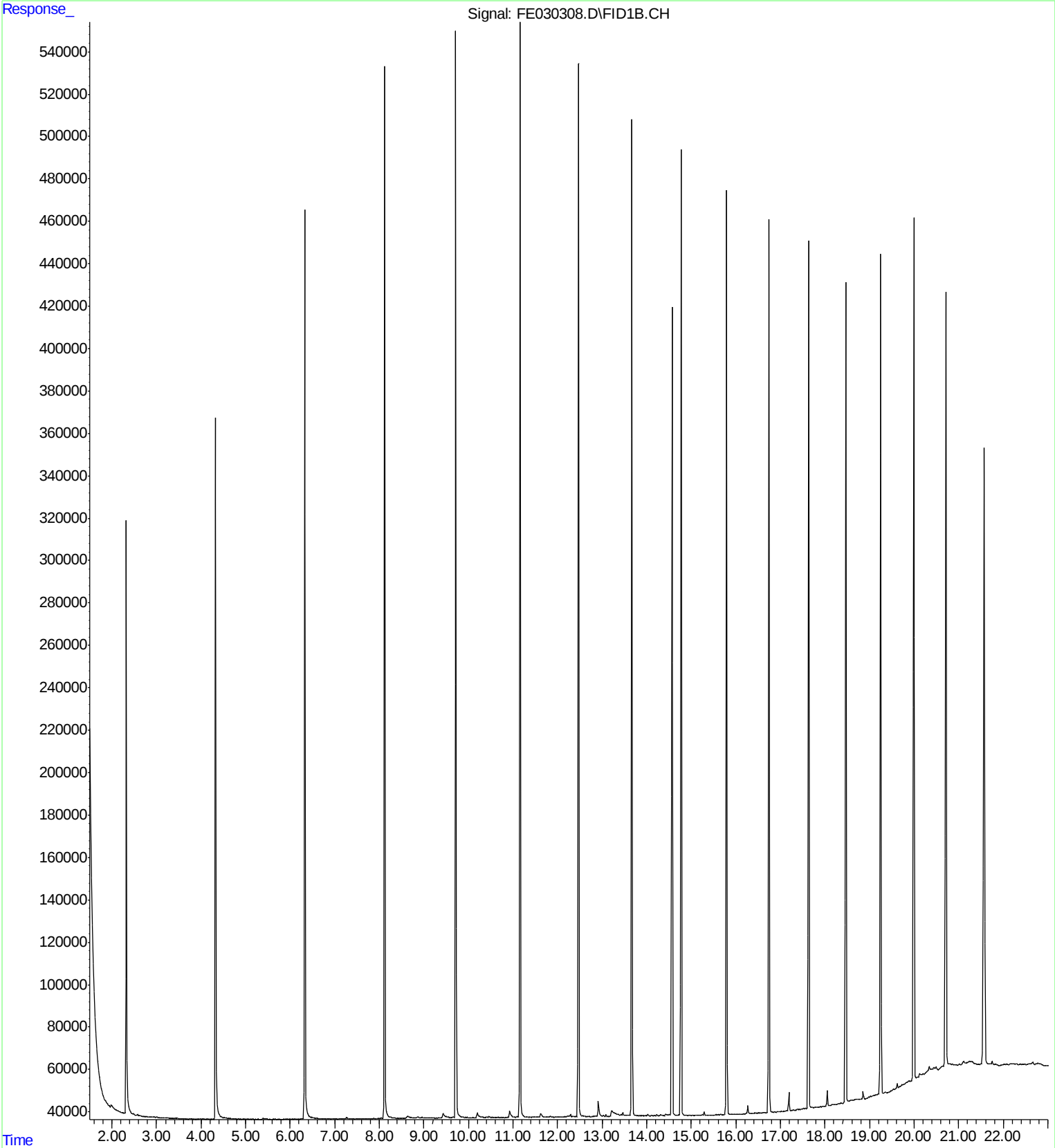


QC SAMPLE DATA

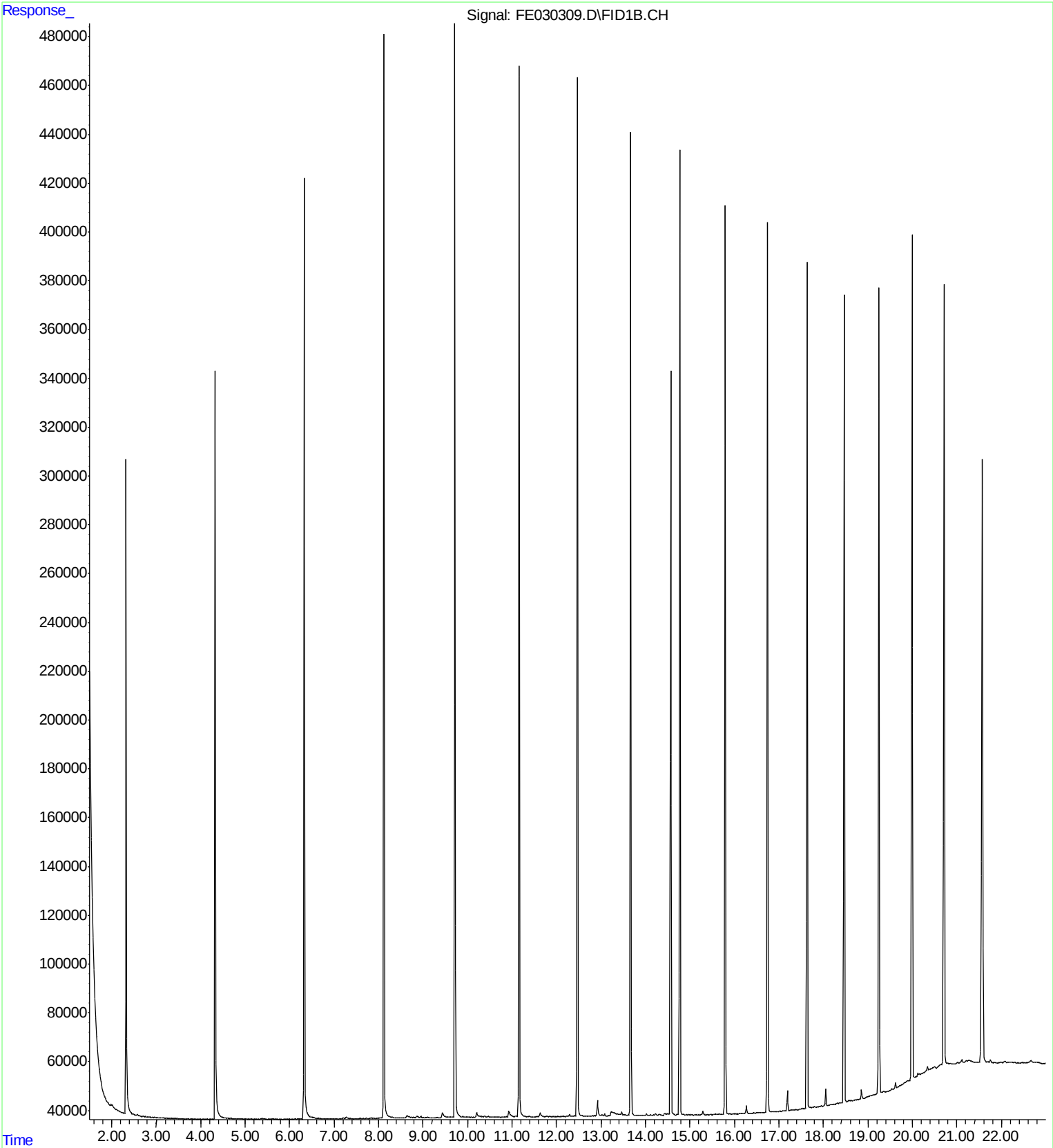
File :Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE082819\FE030307.D
Operator : AJ\SJ
Acquired : 29 Aug 2019 2:03 using AcqMethod 8015C.M
Instrument : Instrumen
Sample Name: PB122549BL
Misc Info :
Vial Number: 16



File :Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE082819\FE030308.D
Operator : AJ\SJ
Acquired : 29 Aug 2019 2:39 using AcqMethod 8015C.M
Instrument : Instrumen
Sample Name: PB122549BS
Misc Info :
Vial Number: 17



File :Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE082819\FE030309.D
Operator : AJ\SJ
Acquired : 29 Aug 2019 3:14 using AcqMethod 8015C.M
Instrument : Instrumen
Sample Name: PB122549BSD
Misc Info :
Vial Number: 18





Instrument ID: FID_E

284 Sheffield Street, Mountainside NJ 07092 (908) 789-8900

Daily Analysis Runlog For Sequence/QCBatch ID #FE082819

STD. NAME	STD REF.#	STD. NAME	STD REF.#
Review By	Ankita	Review On	8/30/2019 5:50:49 PM
Tune/Reschk		Initial Calibration Stds	P7025,P7028,P7718,P7030,P6537,P6541,P7441,P7032,P6531,P6025,P7043,P7080,P7046,P7047
CCC		SubDirectory	FE082819
Internal Standard/PEM		HP Acquire Method	
ICV/I.BLK		HP Processing Method	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FE030292.D	28 Aug 2019 14:33	AJ\SJ	Ok
2	DIESEL FUEL#2	FE030293.D	28 Aug 2019 16:33	AJ\SJ	Ok
3	#4 FUEL OIL STD	FE030294.D	28 Aug 2019 17:09	AJ\SJ	Ok
4	#5 FUEL OIL STD	FE030295.D	28 Aug 2019 17:44	AJ\SJ	Ok
5	#6 FUEL OIL STD	FE030296.D	28 Aug 2019 18:20	AJ\SJ	Ok
6	MOTOR OIL 30	FE030297.D	28 Aug 2019 18:56	AJ\SJ	Ok
7	MOTOR OIL 40	FE030298.D	28 Aug 2019 19:31	AJ\SJ	Ok
8	MOTOR OIL 50	FE030299.D	28 Aug 2019 20:07	AJ\SJ	Ok
9	UNLEADED GASOLINE	FE030300.D	28 Aug 2019 20:43	AJ\SJ	Ok
10	PAINT THINNER	FE030301.D	28 Aug 2019 21:19	AJ\SJ	Ok
11	COAL TAR	FE030302.D	28 Aug 2019 21:54	AJ\SJ	Ok
12	JET FUEL A STD	FE030303.D	28 Aug 2019 22:30	AJ\SJ	Ok
13	MINERAL SPIRIT STD	FE030304.D	28 Aug 2019 23:06	AJ\SJ	Ok
14	KEROSENE STD	FE030305.D	28 Aug 2019 23:41	AJ\SJ	Ok
15	HYDRAULIC OIL STD	FE030306.D	29 Aug 2019 00:17	AJ\SJ	Ok
16	PB122549BL	FE030307.D	29 Aug 2019 2:03	AJ\SJ	Ok
17	PB122549BS	FE030308.D	29 Aug 2019 2:39	AJ\SJ	Ok
18	PB122549BSD	FE030309.D	29 Aug 2019 3:14	AJ\SJ	Ok
19	K4508-01	FE030310.D	29 Aug 2019 3:50	AJ\SJ	Ok
20	K4508-01	FE030311.D	29 Aug 2019 4:25	AJ\SJ	Not Ok



Instrument ID: FID_E

284 Sheffield Street, Mountainside NJ 07092 (908) 789-8900

Daily Analysis Runlog For Sequence/QCBatch ID #FE082819

STD. NAME	STD REF.#	STD. NAME	STD REF.#
Review By	Ankita	Review On	8/30/2019 5:50:49 PM
Tune/Reschk		Initial Calibration Stds	P7025,P7028,P7718,P7030,P6537,P6541,P7441,P7032,P6531,P6025,P7043,P7080,P7046,P7047
CCC		SubDirectory	FE082819
Internal Standard/PEM		HP Acquire Method	
ICV/I.BLK		HP Processing Method	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
-----	----------	----------------	-----------	----------	--------



Instrument ID: FID_E

284 Sheffield Street, Mountainside NJ 07092 (908) 789-8900

Daily Analysis Runlog For Sequence/QCBatch ID #FE082819

STD. NAME	STD REF.#	STD. NAME	STD REF.#
Review By	Ankita	Review On	8/30/2019 5:50:49 PM
Tune/Reschk		Initial Calibration Stds	P7025,P7028,P7718,P7030,P6537,P6541,P7441,P7032,P6531,P6025,P7043,P7080,P7046,P7047
CCC		SubDirectory	FE082819
Internal Standard/PEM		HP Acquire Method	
ICV/I.BLK		HP Processing Method	

Sr#	SampleId	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	FE030292.D	28 Aug 2019 14:33		AJ\SJ	Ok
2	DIESEL FUEL#2	FE030293.D	28 Aug 2019 16:33		AJ\SJ	Ok
3	#4 FUEL OIL STD	FE030294.D	28 Aug 2019 17:09		AJ\SJ	Ok
4	#5 FUEL OIL STD	FE030295.D	28 Aug 2019 17:44		AJ\SJ	Ok
5	#6 FUEL OIL STD	FE030296.D	28 Aug 2019 18:20		AJ\SJ	Ok
6	MOTOR OIL 30	FE030297.D	28 Aug 2019 18:56		AJ\SJ	Ok
7	MOTOR OIL 40	FE030298.D	28 Aug 2019 19:31		AJ\SJ	Ok
8	MOTOR OIL 50	FE030299.D	28 Aug 2019 20:07		AJ\SJ	Ok
9	UNLEADED GASOLINE	FE030300.D	28 Aug 2019 20:43		AJ\SJ	Ok
10	PAINT THINNER	FE030301.D	28 Aug 2019 21:19		AJ\SJ	Ok
11	COAL TAR	FE030302.D	28 Aug 2019 21:54		AJ\SJ	Ok
12	JET FUEL A STD	FE030303.D	28 Aug 2019 22:30		AJ\SJ	Ok
13	MINERAL SPIRIT STD	FE030304.D	28 Aug 2019 23:06		AJ\SJ	Ok
14	KEROSENE STD	FE030305.D	28 Aug 2019 23:41		AJ\SJ	Ok
15	HYDRAULIC OIL STD	FE030306.D	29 Aug 2019 00:17		AJ\SJ	Ok
16	PB122549BL	FE030307.D	29 Aug 2019 2:03		AJ\SJ	Ok
17	PB122549BS	FE030308.D	29 Aug 2019 2:39		AJ\SJ	Ok
18	PB122549BSD	FE030309.D	29 Aug 2019 3:14		AJ\SJ	Ok
19	K4508-01	FE030310.D	29 Aug 2019 3:50		AJ\SJ	Ok
20	K4508-01	FE030311.D	29 Aug 2019 4:25	NOT USED	AJ\SJ	Not Ok



Instrument ID: FID_E

284 Sheffield Street, Mountainside NJ 07092 (908) 789-8900

Daily Analysis Runlog For Sequence/QCBatch ID #FE082819

STD. NAME	STD REF.#	STD. NAME	STD REF.#
Review By	Ankita	Review On	8/30/2019 5:50:49 PM
Tune/Reschk		Initial Calibration Stds	P7025,P7028,P7718,P7030,P6537,P6541,P7441,P7032,P6531,P6025,P7043,P7080,P7046,P7047
CCC		SubDirectory	FE082819
Internal Standard/PEM		HP Acquire Method	
ICV/I.BLK		HP Processing	

		Method			
Sr#	SampleId	Data File Name	Date-Time	Comment	Operator

SOP ID: M3510C,3580A-Extraction DRO-11

Clean Up SOP #: N/A **Extraction Start Date :** 08/26/2019

Matrix : Water **Extraction Start Time :** 10:05

Weigh By: FE **Extraction By:** FE **Extraction End Date :** 08/26/2019

Balance check: N/A **Filter By:** FE **Extraction End Time :** 14:25

Balance ID: N/A **pH Meter ID:** N/A **Concentration By:** RS

pH Strip Lot#: E2639 **Hood ID:** 4,6,7 **Supervisor By :** rajesh

Extraction Method: ☒ Separatory Funne ☐ Continious Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☐ Soxhlet

Standarded Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	20 PPM	PP15958
Surrogate	1.0ML	20 PPM	PP15812
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Methylene Chloride	N/A	E2713
Baked Na2SO4	N/A	EP1977
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

N/A

KD Bath ID: W.BATH-1 **Envap ID:** NE VAP-2

KD Bath Temperature: 60 °C **Envap Temperature:** 40 °C

Date / Time	Received By	Relinquished By	Location
08/26/19	DO	R	Pest P/C Lab
14:30	Analysis Group	Preparation Group	



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Shipment Verification Detail

OrderID K4508

ProjectID MTA CQ033

CustomerID TECT01

Project Manager Tyler

Customer Name Tectonic Engineering

Sales Executive Steven

Customer Contact Kristine Garbarino

Order Date 08/23/2019

Are samples submitted with a chain of custody?

Yes ☒ No ☐ NA ☐

Are the number of samples the same as stated on the chain of custody?

Yes ☒ No ☐ NA ☐

Are bottle caps tight and securely in place?

Yes ☒ No ☐ NA ☐

Were all containers intact when received?

Yes ☒ No ☐ NA ☐

Were samples submitted in an ice chest?

Yes ☒ No ☐ NA ☐

Were samples received cold?

Yes ☒ No ☐ NA ☐

Were samples within the holding time for the requested test(s)?

Yes ☒ No ☐ NA ☐

Is the volume of sample submitted sufficient for the requested test(s)?

Yes ☒ No ☐ NA ☐

Are all samples for volatile organic analyses free of headspace?

Yes ☐ No ☐ NA ☒

TV
8-23-19

Analytical Method: M3510C,3580A-Extraction DRO-11

Concentration Date: 08/26/2019

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol.(mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB122549BL	PB122549BL	Fingerprint	1000.0	6	Fekreslasie	RAKESHK UMAR	1			SEP-1
PB122549BS	PB122549BS	Fingerprint	1000.0	6	Fekreslasie	RAKESHK UMAR	1			2
PB122549BS D	PB122549BSD	Fingerprint	1000.0	6	Fekreslasie	RAKESHK UMAR	1			3
K4508-01	BLK-A4	Fingerprint	900.0	6	Fekreslasie	RAKESHK UMAR	1	C	L. YELLOW	4

* Extracts relinquished on the same date as received.

8/26

SHIPPING DOCUMENTS

K4508

CHEMTECH
 CHAIN OF CUSTODY RECORD

 284 Sheffield Street, Mountainside, NJ 07092
 (908) 789-8900 Fax: (908) 78-8922
 www.chemtech.net

Chemtech Project Number:

K4508 SC

COC Number: TEC08-22-2019 - 61

CLIENT INFORMATION

 COMPANY: Tectonic
 ADDRESS: 70 Pleasant Hill Road
 CITY: Mountainville STATE: NY ZIP: 10953
 ATTENTION: Kristine Garbarino
 PHONE: 845-534-5959 FAX: 845-534-5999

PROJECT INFORMATION

 PROJECT NAME: MTA CQ033 - Mid Day Storage Yard
 PROJECT #: 8826.01 LOCATION: Queens, NY
 PROJECT MANAGER: Kristine Garbarino
 E-MAIL: Kgarbarino@tectonicengineering.com
 PHONE: 845-534-5959 FAX: 845-534-5999

BILLING INFORMATION

 BILL TO: Tectonic PO# 174844
 ADDRESS: 70 Pleasant Hill Road
 CITY: Mountainville STATE: NY ZIP: 10953
 ATTENTION: Accounts Payable PHONE: 845-534-5959

DATA TURNAROUND INFORMATION

 FAX: 5 DAYS*
 HARD COPY: 5 DAYS*
 EDD: 5 DAYS*
 * TO BE APPROVED BY CHEMTECH
 STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

☐ RESULTS ONLY
☐ RESULTS + QC
☐ New Jersey REDUCED
☐ New Jersey CLP
☐ USEPA CLP
☒ New York State ASP "B"
☐ New York State ASP "A"
☐ Other: _____
☒ EDD Format PDF & Excel

ANALYSIS

VOC	SVOC	PCBs	Flash Point	EPH, TPH, & DRO/GRO	RCRA & Metals	TCLP VOC & TCLP SVOC	TCLP RCRA & Metals	RCRA Characteristics
1	2	3	4	5	6	7	8	9

PRESERVATIVES

COMMENTS

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# of Bottles	A, E	E	E	E	A*, C*, F	B, E	E	E	E	<-- Specify Preservatives A-HCl B-HNO3 C-H2SO4 D-NaOH E-ICE F-Other
			COMP	GRAB	DATE	TIME		1	2	3	4	5	6	7	8	9	
1.	trip blanks	liquid		X	8/23/19			X									* HCl for GRO. H2SO4 for
2.	Blk Au	liquid		X	8/23/19	0730	2	X									EPH. Ice for TPH & DRO.
3.	Blk Au	liquid		X		0735	2					X					* GRO only
4.	Blk Au	liquid		X		0740	2						X				* TCLP VOC only
5.	Blk Au	liquid	X			0800	10		X	X	X	X	X	X	X	X	* no GRO or TCLP VOC
6.																	
7.																	
8.																	
9.																	
10.																	

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER	DATE/TIME	RECEIVED BY	Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant ☐ Cooler Temp <u>3-4°C</u> MeOH extraction requires an additional 4oz. Jar for percent solid Comments: <u>H2SO4 1L Amber broke EPH sample needs preservative H2SO4 in field</u> <u>3-4°C</u> * samples taken between 0830-0840, not 0800
1. <u>Rina Peoples</u>	<u>8/23/19 10:00</u>	1. _____	
RELINQUISHED BY	DATE/TIME	RECEIVED BY	
2. _____	<u>8-23-19 12:18</u>	2. <u>CL</u>	
RELINQUISHED BY	DATE/TIME	RECEIVED FOR LAB BY	
3. _____		3. _____	

 SHIPPED VIA: CLIENT: ☐ Hand Delivered ☐ Overnight
 CHEMTECH: ☒ Picked Up ☐ Overnight

 Shipment Complete
☐ YES ☐ NO

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT

YELLOW - CHEMTECH COPY

PINK - SAMPLER COPY

From: Steven Kim <steven@chemtech.net>
Sent: Friday, August 23, 2019 5:27 PM
To: 'Garbarino, Kristine'
Cc: Peoples, Dina; Steven Chaimowitz
Subject: CQ033 oil samples update

Hi Kristine,

As we discussed earlier on the phone today, we will only be analyzing the following parameters on the sample from MTA CQ033 dropped off by Dina earlier today:

PCBs,
Flash Point
Total RCRA 8 Metals,
Fingerprint

We will ship the remaining samples to the attention of Ralph Pantony at Action Hazmat in Wantagh, NY. The FedEx Ground tracking number for this shipment today is 1007-2560-3262.

Feel free to let me know if there are any questions. Thank you, and have a great weekend!

Regards,

Steven Kim
Account Executive
Direct: (908) 728-3157
Fax: (908) 789-8922
Mobile: (732) 688-2642

CHEMTECH

284 Sheffield Street,
Mountainside, New Jersey 07092
Phone: (908) 789 8900
Fax: (908) 789 8922





284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

SM Login Order Sample Test Details

OrderID K4508

ProjectID MTA CQ033

CustomerID TECT01

Project Manager Tyler

Customer Name Tectonic Engineering

Sales Executive Steven

Order Date 08/23/2019

EDD Type NYSDEC EDD V-3

DataPackage Type NYS ASP B

Comment : --NY--5 day TAT is standard TAT for this project. Report all results to MDL, and organics should be reported in mg/kg. All Group1s should be defined to cover both NJDEP Soil Remediation Standards and NYSDEC Part 375 Soil Cleanup Objectives.--mg/kg / mdl water to be reported in UG/L. -- Log-in is correct as-is.

Lab SampleID	Matrix	CustomerSample	Collect Date	CollectTime	Receive Date	Bottle Qty
K4508-01	Water	TRIP-BLANK	08/23/2019	00:00:00	8/23/2019 12:18:0	4
Test	TestGroup	Method	PrepMethod	Preservative	BottleType	Pri
Fingerprint		8015D	3510C	Cool 4 deg C	1 Liter Amber	5
Flash Point		1010A	NA	Cool 4 deg C	1 Liter Amber	5
PCB		8082A	3510C	Cool 4 deg C	1 Liter Amber	5
Mercury	METALS-RCRA	7470A		1:1 HNO3 to pH < 2	500 ml Plastic	5
Metals ICP-RCRA	METALS-RCRA	6010D		1:1 HNO3 to pH < 2	500 ml Plastic	5
METALS-RCRA	METALS-RCRA					5
K4508-05	Water	BLK-A4	08/23/2019	08:00:00	8/23/2019 12:18:0	6
Test	TestGroup	Method	PrepMethod	Preservative	BottleType	Pri
EPH_NF		NJEPH	NJEPH	Cool 4 deg C	1 Liter Amber	5



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	EP-W-14-030
Connecticut	PH-0649
DOD ELAP (L-A-B)	L2219
Florida	E87935
Maine	2012025
Maryland	296
New Hampshire	255413
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	P330-13-00380
Texas	T104704488-13-5