Chain of Custody, Shipping & Receiving Documents, Sample Condition Checklist

F&B Project 506026

506026

MP 06-02-15 BOS / VS2

USEPA
DateShipped: 6/1/2015
CarrierName: FedEx
AirbillNo:

CHAIN OF CUSTODY RECORD
Site #: 10ZZ
Contact Name: Eric Nuchims
Contact Phone: 206-624-9537

No: 10-053115-180143-0012
Cooler #: 06
Lab: Friendman & Bruya
Lab Phone: (206) 285-8282

Lab #	Collected	Sample Time	Sample #	Location		Analyses	Matrix	Numb Cont	Container	Preservative	Lab QC
01A-B	5/29/2015	09:40	15053103	BH01GW	TPH-Dx	Oil Fingerprinting	Ground Water	2	32 oz Amber	None	N
02	5/31/2015	11:11	15053112	BH09GW		Oil Fingerprinting	Ground Water	2	32 oz Amber	Wet Ice	N
03	5/30/2015	17:48	15053110	BH10GW		Oil Fingerprinting	Ground Water	2	32 oz Amber	Wet Ice	N
04	5/31/2015	14:33	15053113	BH11GW		Oil Fingerprinting	Ground Water	2	32 oz Amber	Wet Ice	N
05A-C	5/29/2015	08:20	15053501	BH01SB13		Oil Fingerprinting	Soil	3	En-Core	Wet Ice	N
D	5/29/2015	08:20	15053501	BH01SB13		Oil Fingerprinting	Soil	1	2oz glass jar	Wet Ice	N
06A-C	5/29/2015	08:30	15053502	BH01SB16		Oil Fingerprinting	Soil	3	En-Core	Wet Ice	N
D	5/29/2015	08:30	15053502	BH01SB16		Oil Fingerprinting	Soil	1	2oz glass jar	Wet Ice	N
07A-C	5/31/2015	11:11	15053503	BH09SB12		Oil Fingerprinting	Soil	3	En-Core	Wet Ice	N
D	5/31/2015	11:11	15053503	BH09SB12		Oil Fingerprinting	Soil	1	2oz glass jar	Wet Ice	N
08A-C	5/31/2015	13:48	15053504	BH11SB12		Oil Fingerprinting	Soil	3	En-Core	Wet Ice	N
D	5/31/2015	13:48	15053504	BH11SB12		Oil Fingerprinting	Soil	1	2oz glass jar	Wet Ice	N

Special Instructions: 1 week TAT. Preliminary results to mwoodke@ene.com. Contains water/product & soil samples
TPH-Dx added per Kurt Johnson / Mark Woodke [illegible] 6/3/15

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
+ lab	[illegible]	6/1/15 07:52	[illegible] / FeBT	6/2/15 1040	

Samples received at 3 °C

SAMPLE CONDITION UPON RECEIPT CHECKLIST

PROJECT # 506026 CLIENT Ecology & Environment INITIALS/ DATE: NP 6/2/15

If custody seals are present on cooler, are they intact? ☐ NA ☑ YES ☐ NO

Cooler/Sample temperature 3 °C

Were samples received on ice/cold packs? ☑ YES ☐ NO

Number of days samples have been sitting prior to receipt at laboratory 2 & 4 days

Is there a Chain-of-Custody* (COC)? ☑ YES ☐ NO
*or other representative documents, letters, and/or shipping memos

Are the samples clearly identified? (explain "no" answer below) ☑ YES ☐ NO

Is the following information provided on the COC* ? (explain "no" answer below)

Sample ID's	☑ Yes	☐ No	# of Containers	☑ Yes	☐ No
Date Sampled	☑ Yes	☐ No	Relinquished	☑ Yes	☐ No
Time Sampled	☑ Yes	☐ No	Requested analysis	☑ Yes	☐ No

Were all sample containers received intact (i.e. not broken, leaking etc.)? (explain "no" answer below) ☑ YES ☐ NO

Were appropriate sample containers used? (explain "no" answer below) ☑ YES ☐ NO

If custody seals are present on samples, are they intact? ☑ NA ☐ YES ☐ NO

Are samples requiring no headspace, headspace free? ☑ NA ☐ YES ☐ NO

Explain "no" items from above (use the back if needed)

Are samples for PCB testing? ☐ YES ☑ NO

Did samples originate out of the country? (if yes, put in APHIS refrigerator) ☐ YES ☑ NO

Was client notified of sample receipt? ☐ Over the Counter ☐ Picked up by F&BI
☐ YES ☐ NO (explain)

If Yes, name of person contacted _____ ☐ Left Message

Special Instructions from Client _____

Percent Solids

F&B Project 506026

Sample ID	Wet Weight	Dry Weight + Pan	Pan Weight	Solids	Solids Ratio	Moisture	Last Weighing
506026-05	10	8.5	1.35	0.72	1.40	0.29	6/3/15
506026-06	10	10.2	1.35	0.89	1.13	0.12	6/3/15
506026-07	10	10.6	1.35	0.93	1.08	0.08	6/3/15
506026-08	10	9.9	1.35	0.86	1.17	0.15	6/3/15

NWTPH-Dx
Laboratory Worksheets

F&B Project 506026

TPH AS DIESEL/MOTOR OIL EXTRACTION WORKSHEET (WATER)

Project #: 506026
Client: Ecology & Environment
QC Batch ID: 05-1045
Samples checked against COC HW

Date Received: 6/2/15
Date Extracted: 6/3/15
Date Analyzed:
GC ☐1 ☐4 ☐6, Seq. Date

Analysis Method:
- ☒ NWTPH-Dx
- ☐ 8015M
- ☐ AK102 [LCS/LCSD]
- ☐ AK103 [LCS/LCSD]
- ☐ Other

Calculation Range/Requested Analyte(s):
- ☒ C_{10} to C_{36} (Diesel Extr.)
- ☐ C_{10} to C_{36} (Diesel/Motor Oil)
- ☐ Other
- ☐ C_{10} to C_{25} (Diesel)
- ☐ C_{25} to C_{36} (Motor Oil)
- ☐ C_8 to C_{11} (Standard Solvent)
- ☐ ve's not Acceptable
- ☐ Dilutions Only Not Acceptable
- ☐ Need EDF

Clean Up:
- ☐ Silica Gel
- ☐ Filtration
- ☐ Other
- ☐ Only if Detect
- ☐ With and Without

Reporting Units:
- ☒ µg/L (ppb)
- ☐ Other

Extraction Method
- ☒ 3510
- ☐ Other

Due Date: **RUSH** Thurs. 6/4

Sample ID	pH	Sample Volume (mL)	Extraction Solvent Volume	Final Volume	Dilutions Amt. Extract	Dilutions Amt. Solvent	Clean Up Silica	Clean Up Filter	Observations
01 A	<2	1,000	3 x 60 ml	2.5 ml or 5 ml					EMH
02									
03									
04									
	HW			6/3					
Initials									

2015 JUN 3 PM 2 03

	✓	Volume	Conc. (ppm)	Compound(s)	Lot #	Initials	Date
Solvent		NA	NA	Methylene chloride	145-47	HW	6/3/15
Other							
Surrogate(s)		25 µl	1,000	Pentacosane/o-terphenyl			
	✓	50 µl	1,000	Pentacosane/o-terphenyl	45-50	HW	6/3/15
		25 µl	1,000	Triacontane/Pentacosane/o-terphenyl			
		50 µl	1,000	Triacontane/Pentacosane/o-terphenyl			
Acid (HCl)							

Project Leader Initials: [illegible]

NOTES: Need ergrams

FORMS\LAB\EXTRACT\DIESEL_HCID

Rev. 09/30/14

BATCH ORGANIC EXTRACTION WORKSHEET

Date Extracted: 6/3 Technician: HN

QA Batch: **O5-01045**

2015 JUN 3 PM 2:05

Matrix
- ☐ Soil
- ☒ Water
- ☐ Product
- ☐ Wipe
- ☐ Other_____

Solvent
- ☒ Methylene Chloride
- ☐ Acetone
- ☐ Methanol
- ☐ Hexane
- ☐ Other_____

Solvent Lot # 145-47

Analysis
- ☒ Diesel
- ☐ Gas/BTEX
- ☐ HCID
- ☐ 8270 SIM
- ☐ 8270
- ☐ 8260
- ☐ PCB
- ☐ Organic Lead
- ☐ Methamphetamine
- ☐ Other_____

Clean Up: ☐ FlorsiL (FL) ☐ Cupper (Cu) ☐ Silica ☐ Filtration ☐ H_2SO_4 ☐ Other_____

Sample ID	pH Waters only	Sample Weight/ Volume	Extraction Solvent Volume	Final Volume	Dilutions Amt. Extract	Dilutions Amt. Solvent	Clean Up (Circle) Silica	FL Filter	Cu H_2SO_4	Observations
MB	<2	1,000	3X60 HN	5ml						
LCS	/	/	/	/						
LCSD	/	/	/	/						
	HN			6/3						
Initials										

Samples in Batch

5706025-01	/ 05	/ 04	/ 04	
02	5706026-01	5706058-01		
/ 03	/ 02	/ 02		
/ 04	/ 03	/ 03		

Date/Initials

Matrix Spikes:
_____ µL of _____ ppm of _____ Lot #_____ _____
Amount Concentration Analytes and Solvent

Matrix Spikes:
25 µL of 100,000 ppm of WADF # 2 Lot # 45-121 6/3/15 HN
Amount Concentration Analytes and Solvent

Surrogates:
25 µL of 1,000 ppm of Pentachlorophenol/OTER Lot # 45-50 /
Amount Concentration Analytes and Solvent

Internal Standards:
_____ µL of _____ ppm of _____ Lot #_____ _____
Amount Concentration Analytes and Solvent

Notes: _____

GC#1 06-03-15

Wt % Solid	ca Gel Silica	ter-ed Filte	Form Rpt	Time	W or S Type	Samp Vol	Water Soil Final Vol	Dil	(Change limits for low level soils) Sample Name	50 Diesel Conc.	250 Diesel Ext Conc.	250 Motor Oil Conc.	250 Heavy Oil/C Conc.	50 C12-24 Conc.	50 Stoddard Conc.	50 Kerosene Conc.	250 C24-38 Conc.	Surrogate Rec Terphenyl	Vial	
0.92			9	06-03-15 14:25	S	2	10.0		506064-01	92	100	<250	<250	111	<50	113	<500	105	29	
0.87			9	06-03-15 14:36	S	2	10.0		506064-02	31409	31523	721	18043	37741	15538	39766	57221	415	30	
0.93			9	06-03-15 14:47	S	2	10.0		506064-03	2863	634	<250	634	846	72	858	1152	95	31	
1.00				06-03-15 14:58		1	1.0		1000 MO 44-151B	223	872	979	994	268	0	272	1586	102	4	
1.00				06-03-15 15:09		1	1.0		1000 Dx 44-172C	1028	1030	22	604	1235	516	1327	1870	110	5	
1.00			1	06-03-15 15:41	W	1000	5.0		05-1045 mb	<50	<250	<250	<250	<50	<50	<50	<250	89	32	
1.00				06-03-15 15:50	W	1000	5.0		05-1045 lcs	2885	2874	<250	1739	3467	1371	3692	5218	97	33	
1.00				06-03-15 16:01	W	1000	5.0		05-1045 lcsd	2985	2971	<250	1795	3586	1423	3824	5393	101	34	
1.00			2	06-03-15 16:12	W	1000	5.0		506025-01	600	594	<250	<250	721	1627	2209	1078	90	35	Gas.
1.00			2	06-03-15 16:23	W	1000	5.0		506025-02	<50	<250	<250	<250	<50	<50	104	336	91	36	
1.00			2	06-03-15 16:34	W	1000	5.0		506025-03	<50	<250	<250	<250	<50	<50	<50	<250	97	37	
1.00			2	06-03-15 16:45	W	1000	5.0		506025-04	<50	<250	<250	<250	<50	<50	<50	<250	84	38	
1.00			2	06-03-15 16:57	W	1000	5.0		506025-05	32220	34171	3495	35086	38715	3189	39394	62058	37	39	Y
1.00			2	06-03-15 17:08	W	1000	5.0		506026-01	17274	17889	1227	9578	20756	12501	26113	32473	122	40	
1.00			2	06-03-15 17:19	W	1000	5.0		506026-02	<50	<250	<250	<250	<50	<50	<50	<250	85	41	
1.00			2	06-03-15 17:30	W	1000	5.0		506026-03	<50	<250	<250	<250	<50	<50	<50	<250	88	42	
1.00			2	06-03-15 17:41	W	1000	5.0		506026-04	<50	<250	<250	<250	<50	<50	<50	<250	88	43	
1.00			2	06-03-15 17:53	W	1000	5.0		506058-01	1194	1190	<250	354	1435	1902	2920	2160	87	44	
1.00			2	06-03-15 18:04	W	1000	5.0		506058-02	<50	<250	<250	<250	<50	<50	<50	<250	91	45	
1.00			2	06-03-15 18:15	W	1000	5.0		506058-03	78	<250	<250	<250	94	<50	124	<250	93	46	X
1.00			2	06-03-15 18:26	W	1000	5.0		506058-04	<50	<250	<250	<250	<50	<50	<50	<250	97	47	
1.00				06-03-15 18:37		1	1.0		500 MO 44-50B	119	453	504	516	143	0	145	823	101	92	
1.00				06-03-15 18:49		1	1.0		500 Dx 43-199B	515	513	5	298	619	258	664	931	101	93	
0.84			2	06-03-15 19:00	S	2	10.0		506066-04	<50	<50	<250	<250	<50	<50	<50	<500	92	48	
0.93			2	06-03-15 19:11	S	2	10.0		506066-05	237	229	<250	<250	285	87	289	<500	97	49	
0.91			2	06-03-15 19:22	S	2	10.0		506066-06	5681	5664	<250	3325	6826	2647	7087	10281	99	50	
0.77			9	06-03-15 19:33	S	2	10.0		505436-05	946	2329	2092	2653	1137	<50	1154	4227	97	51	RE samples
0.81			9	06-03-15 19:45	S	2	10.0		506070-01	363	<50	<250	<250	<50	<50	<50	<500	99	52	
0.84			9	06-03-15 19:56	S	2	10.0		506070-02	<50	<50	<250	<250	<50	<50	<50	<500	93	53	
1.00				06-03-15 20:07		1	1.0		500 MO 44-50B	0	11	17	13	0	0	0	20	3	92	Cont
1.00				06-03-15 20:18		1	1.0		500 Dx 43-199B	549	546	6	318	659	274	706	992	109	93	

Calculated by: [illegible]

Analyzed on: 6/3/15

Reviewed by: MS 6/9/14

TPH AS DIESEL/MOTOR OIL EXTRACTION WORKSHEET (SOIL)

Project #: 506626
Client: Ecology & Environment
QC Batch ID: 05-1044
Samples checked against COC: [illegible]

Date Received: 6/2/15
Date Extracted: 6/3/15
Date Analyzed:
GC ☐1 ☐4 ☒6, Seq. Date

Analysis Method:
- ☒ NWTPH-Dx
- ☐ 8015M
- ☐ AK102 [LCS/LCSD]
- ☐ AK103 [LCS/LCSD]
- ☐ Other

Calculation Range/Requested Analyte(s):
- ☒ C_{10} to C_{36} (Diesel Ext.)
- ☐ C_{10} to C_{36} (Diesel/Motor Oil)
- ☐ C_{10} to C_{36} (NJ EPH)
- ☐ Other
- ☐ C_{10} to C_{25} (Diesel)
- ☐ C_{25} to C_{36} (Motor Oil)
- ☐ C_8 to C_{11} (Standard Solvent)
- ☐ Yes's not Acceptable
- ☐ Dilutions Only Not Acceptable
- ☐ Need EDF

Clean Up:
- ☐ Silica Gel
- ☐ Other
- ☐ Only if Detect
- ☐ With and Without

Reporting Units:
- ☒ µg/g (ppm)
- ☐ Other

Extraction Method
- ☒ 3550
- ☐ Other

Due Date: **RUSH** Thurs. 6/4

Sample ID	Sample Weight	Extraction Solvent Volume	Final Volume	Dilutions: Amt. Extract	Dilutions: Amt. Solvent	Cleanup	Observations
05	20 g or 2 g	3 x 60 ml or 1 x 10 ml	10 mL				
06							
07							
08							
	HN	6/3					
Initials							

	✓	Volume	Conc. (ppm)	Compound(s)	Lot #	Initials	Date
Solvent		NA	NA	Methylene chloride	145-47	HN	6/3/15
Other							
Surrogate(s)		100 µl	1,000	Pentacosane/o-terphenyl	45-50		
		100 µl	1,000	Triacontane/Pentacosane/o-terphenyl			
Other							

Project Leader Initials: [illegible]

NOTES: need c-grams

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Rev. 09/30/14

BATCH ORGANIC EXTRACTION WORKSHEET

Date Extracted: 6/3 Technician: HL

QA Batch: **O5-01044**

2015 JUN 3 AM 9 32

Matrix
- [x] Soil
- [ ] Water
- [ ] Product
- [ ] Wipe
- [ ] Other_____

Solvent
- [x] Methylene Chloride
- [ ] Acetone
- [ ] Methanol
- [ ] Hexane
- [ ] Other_____

Solvent Lot # 145-476

Analysis
- [x] Diesel
- [ ] Gas/BTEX
- [ ] HCID
- [ ] 8270 SIM
- [ ] 8270
- [ ] 8260
- [ ] PCB
- [ ] Organic Lead
- [ ] Methamphetamine
- [ ] Other_____

Clean Up: [ ] FlorsiL (FL) [ ] Cupper (Cu) [ ] Silica [ ] Filtration [ ] H_2SO_4 [ ] Other_____

Sample ID	pH Waters only	Sample Weight/ Volume	Extraction Solvent Volume	Final Volume	Dilutions Amt. Extract	Dilutions Amt. Solvent	Clean Up (Circle) Silica	FL Cu Filter	H_2SO_4	Observations
MB		2g	10 HL							
LCS		10								
506038-03	MS									
"	MD									
	HL		6/3							
Initials										

Samples in Batch

506038-03	506048-01	02	06	506026-05
04	506050-01	03	07	06
506039-01	02	04	08	07
02	506053-01	05	09	08

Date/Initials

Matrix Spikes:
_____ µL of _____ ppm of _____ Lot #_____ _____
Amount Concentration Analytes and Solvent

Matrix Spikes:
100 µL of 100,000 ppm of NADF #2 Lot # 45-121 6/3/15 HL
Amount Concentration Analytes and Solvent

Surrogates:
100 µL of 1,000 ppm of Pentachlorosalicylic acid Lot # 45-50 /
Amount Concentration Analytes and Solvent

Internal Standards:
_____ µL of _____ ppm of _____ Lot #_____ _____
Amount Concentration Analytes and Solvent

Notes: _____

GC#6 06-03-15

Dry Weight	Silica Gel	Filtered	Rep Form	Date Time\	W or S		Water Soil	Dil		Diesel Conc.	Diesel Ext Conc.	Motor Oil Conc.	Heavy Oil/Cr Conc.	C12-24 Conc.	Stoddard Conc.	Kerosene Conc.	C24-38 Conc.	Surrogate Terphenyl Recovery	Vial #
									Reporting Limits										
										50	250	250	250	50	50	50	250		
									(Change limits for -->	50	50	250	250	50	50	50	500		
									low level soils)										
% Solid	Silica	Filte	Rpt		Typ	Sampl Vol	Final Volume	Dil	Sample Name	Diesel Conc.	Diesel Ext Conc.	Motor Oil Conc.	Heavy Oil/Cr Conc.	C12-24 Conc.	Stoddard Conc.	Kerosene Conc.	C24-38 Conc.	Surrogate Terphenyl Recovery	Vial #
1.00				06-03-15 08:58		1	1.0		500 MO 44-50D	102	397	465	462	727	1	154	-12	99	2
1.00				06-03-15 09:10		1	1		500 Dx 44-94C	498	487	2	268	422	293	790	-11	99	3
0.77				06-03-15 09:33	S	2	10		506052-01	20864	20701	553	14086	22176	9024	31535	<500	138	6
0.86				06-03-15 09:41	S	2	10		506052-02	<50	<50	<250	<250	<50	<50	<50	<500	105	7
1.00				06-03-15 09:52	S	2	10		05-1042 mb	<50	<50	<250	<250	<50	<50	<50	<500	118	8
1.00				06-03-15 10:03	S	2	10		05-1042 lcs	<50	5241	<250	<250	<50	<50	<50	<500	103	9
1.00				06-03-15 10:14	S	2	10		506042-01 ms	5570	5477	<250	3044	4792	3270	8849	<500	104	10
1.00				06-03-15 10:24	S	2	10		506042-01 md	5640	5545	<250	3089	4864	3306	8961	<500	104	11
0.82				06-03-15 10:35	S	2	10		506042-01	<50	<50	<250	<250	<50	<50	<50	<500	105	12
0.79				06-03-15 10:46	S	2	10		506042-02	<50	<50	<250	<250	<50	<50	<50	<500	117	13
0.77				06-03-15 10:57	S	2	10		506042-03	<50	<50	<250	<250	<50	<50	<50	<500	103	14
0.79				06-03-15 11:08	S	2	10		506042-04	<50	<50	<250	<250	<50	<50	<50	<500	104	15
1.00				06-03-15 11:19	S	2	10		05-1044 mb	<50	<50	<250	<250	<50	<50	<50	<500	109	16
1.00				06-03-15 11:30	S	2	10		05-1044 lcs	6084	5985	<250	3345	5266	3553	9658	<500	106	17
1.00				06-03-15 11:40	S	2	10		506038-03 ms	2411	6071	<250	2115	3330	483	3598	<500	110	18
1.00				06-03-15 11:51	S	2	10		506038-03 md	5430	5341	<250	2990	4707	3167	8619	<500	104	19
0.94				06-03-15 12:02	S	2	10		506038-03	<50	<50	<250	<250	<50	<50	<50	<500	104	20
0.90				06-03-15 12:13	S	2	10		506038-04	12450	12244	<250	6849	10783	6968	19320	<500	200	21
0.79				06-03-15 12:24	S	2	10		506039-01	1955	1913	<250	1080	1700	1026	2952	<500	103	22
0.79				06-03-15 12:35	S	2	10		506039-02	<50	<50	<250	<250	<50	<50	<50	<500	101	23
1.00				06-03-15 12:46	S	2	10		05-1043 mb	<50	<50	<250	<250	<50	<50	<50	<500	106	81
1.00				06-03-15 12:57	S	2	10		505436-05	3731	9884	9780	11490	18089	<50	5579	<500	112	82
0.72			2	06-03-15 13:08	S	2	10		506026-05	551	546	<250	<250	329	415	886	<500	106	24
0.89			2	06-03-15 13:19	S	2	10		506026-06	1751	1727	<250	844	1329	1151	2811	<500	108	25
0.93			2	06-03-15 13:30	S	2	10		506026-07	<50	<50	<250	<250	<50	<50	<50	<500	115	26
0.86			2	06-03-15 13:40	S	2	10		506026-08	<50	<50	<250	<250	143	<50	138	<500	97	27
1.00				06-03-15 13:51	S	10	10		505436-05 dup	993	2629	2600	3054	4808	<10	1484	<100	117	28
1.00			11	06-03-15 14:02	S	10	10		506057-01	<10	<10	<50	<50	<10	<10	<10	<100	123	29
1.00			11	06-03-15 14:13	S	10	10		506057-02	<10	<10	<50	<50	10	<10	<10	<100	114	30
1.00				06-03-15 14:24		1	1		HCIDs G/M 39-144	43	175	207	203	320	2	67	-10	92	96
1.00				06-03-15 14:35		1	1		HCIDs Dx 39-46	44	42	-2	22	35	27	71	-11	104	97

Calculated by: M

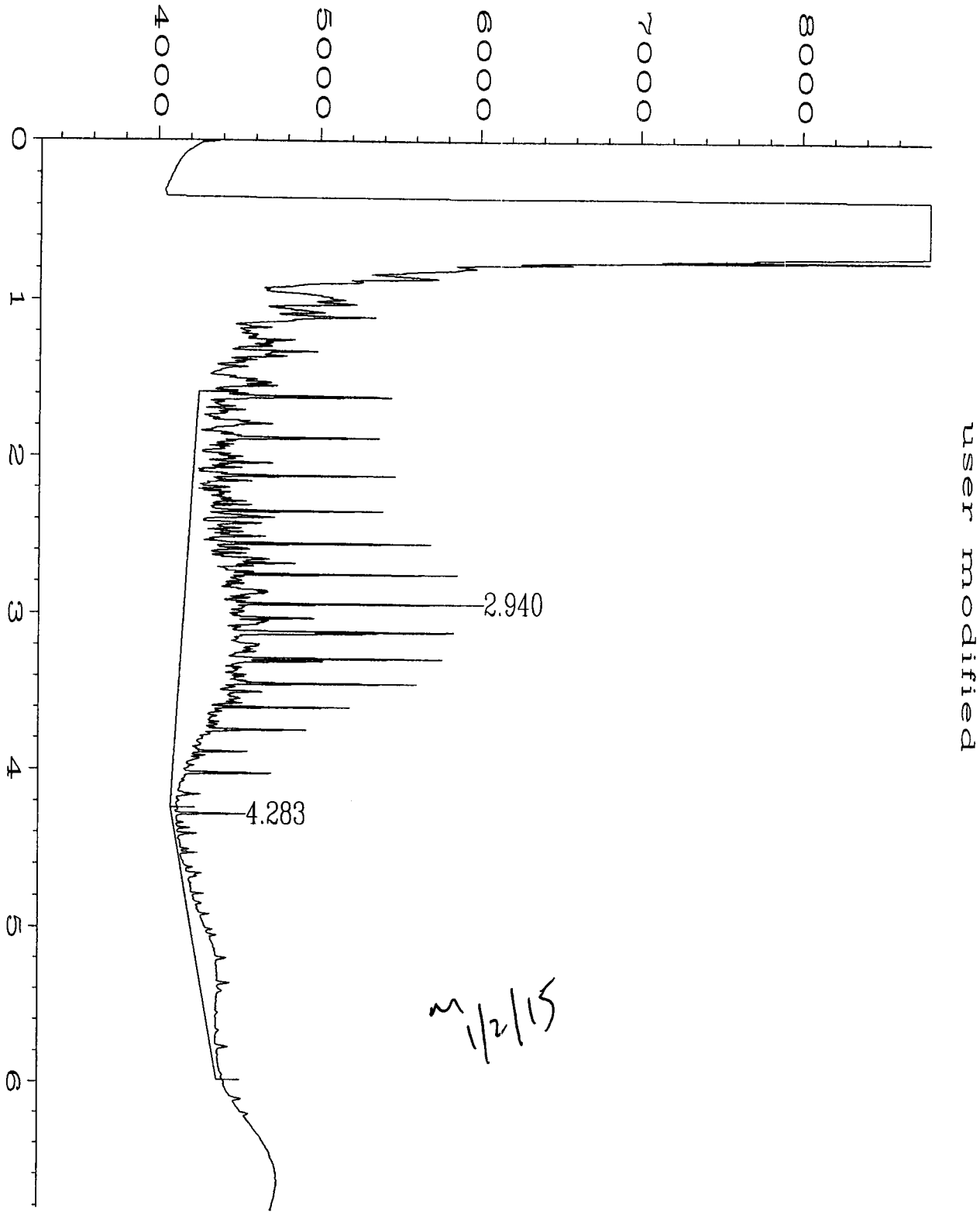
Analyzed on: 6/4/15

Reviewed by: MG 6/4/15

NWTPH-Dx
Initial Calibrations

F&B Project 506026

GC - 6										
Seq. Date	12/31/14									
					ICDSL.XLS					
Sample ID	5ppm dx	10ppm	50ppm	100ppm	500ppm	1000ppm	5000ppm	10kppm dx 44-94		
Conc.	5	10	50	100	500	1000	5000	10000		
Tricontane	0	0	0	0	0	0	0.00E+00	0		
Pentacosan	202	0	278	495	2768	5641	1.91E+04	38755		
Terphenyl	118	0	936	1350	0	14945	5.11E+03	7.72E+05		
Diesel C10	44087	97079	483101	989748	5329982	10718075	4.85E+07	1.02E+08		
Diesel Ex	51287	97079	490789	991580	5376834	10824324	4.90E+07	1.03E+08		
Motor Oil	2572	0	7688	1832	46852	106249	4.81E+05	1.02E+06		
Heavy Oil	12142	43280	235740	475348	2651089	5323849	2.43E+07	50368744		
JP4	4525	4836	3852	3415	4398	-10461	########	########		
Stoddard	19950	85967	306455	597377	3040828	6111632	2.74E+07	5.78E+07		
Kerosene	29520	129247	534507	1070893	5645065	11329232	5.12E+07	1.07E+08		
Bunker C	-202	0	-278	-495	-2768	-5641	########	-38755		
RESPONSE FACTORS									Average	$RS
Tricontane	0	0	0	0	0	0	0	0	0.00E+00	###
Pentacosan	40	0	6	5	6	6	4	4	8.72E+00	###
Terphenyl	24	0	19	14	0	15	1	77	1.86E+01	###
Diesel C10	8817	9708	9662	9897	10660	10718	9709	10162	9.92E+03	6%
Diesel Ex	10257	9708	9816	9916	10754	10824	9805	10264	1.02E+04	4%
Motor Oil	514	0	154	18	94	106	96	102	1.36E+02	###
Heavy Oil	2428	4328	4715	4753	5302	5324	4851	5037	4.59E+03	20%
JP4	905	484	77	34	9	-10	0	-77	1.78E+02	###
Stoddard	3990	8597	6129	5974	6082	6112	5487	5780	6.02E+03	21%
Kerosene	5904	12925	10690	10709	11290	11329	10242	10715	1.05E+04	19%
Bunker C	-40	0	-6	-5	-6	-6	-4	-4	-8.72E+00	###
Analyte	5	10	50	100	500	1000	5000	10000		
Tricontane	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
Pentacosan	-363	100	36	43	37	35	56	56		
Terphenyl	-27	100	-1	28	100	20	95	-315		
Diesel C10	11	2	3	0	-7	-8	2	-2		
Diesel Ex	-1	5	3	2	-6	-6	4	-1		
Motor Oil	-279	100	-13	86	31	22	29	25		
Heavy Oil	47	6	-3	-4	-15	-16	-6	-10		
JP4	-409	-172	57	81	95	106	100	143		
Stoddard	34	-43	-2	1	-1	-2	9	4		
Kerosene	44	-23	-2	-2	-8	-8	2	-2		
Bunker C	-363	100	36	43	37	35	56	56		
Calculated by:	m	1/2/15		Reviewed by						
	Initials	Date/Time				Initials	Date/Time			
Update circled values				Excel TPHD sheet Updated			m			
	Initials	Date/Time								



Data File Name	: C:\HPCHEM\6\DATA\12-31-14\011F0401.D		
Operator	: mwdl	Page Number	: 1
Instrument	: GC #6	Vial Number	: 11
Sample Name	: 5ppm dx 44-94	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 4
Acquired on	: 31 Dec 14 01:23 PM	Instrument Method	: DX1.MTH
Report Created on:	02 Jan 15 09:56 AM	Analysis Method	: DX1.MTH

Area Percent Report

Data File Name : C:\HPCHEM\6\DATA\12-31-14\011F0401.D
Operator : mwdl
Instrument : GC #6
Sample Name : 5ppm dx 44-94
Run Time Bar Code:
Acquired on : 31 Dec 14 01:23 PM
Report Created on: 02 Jan 15 09:56 AM

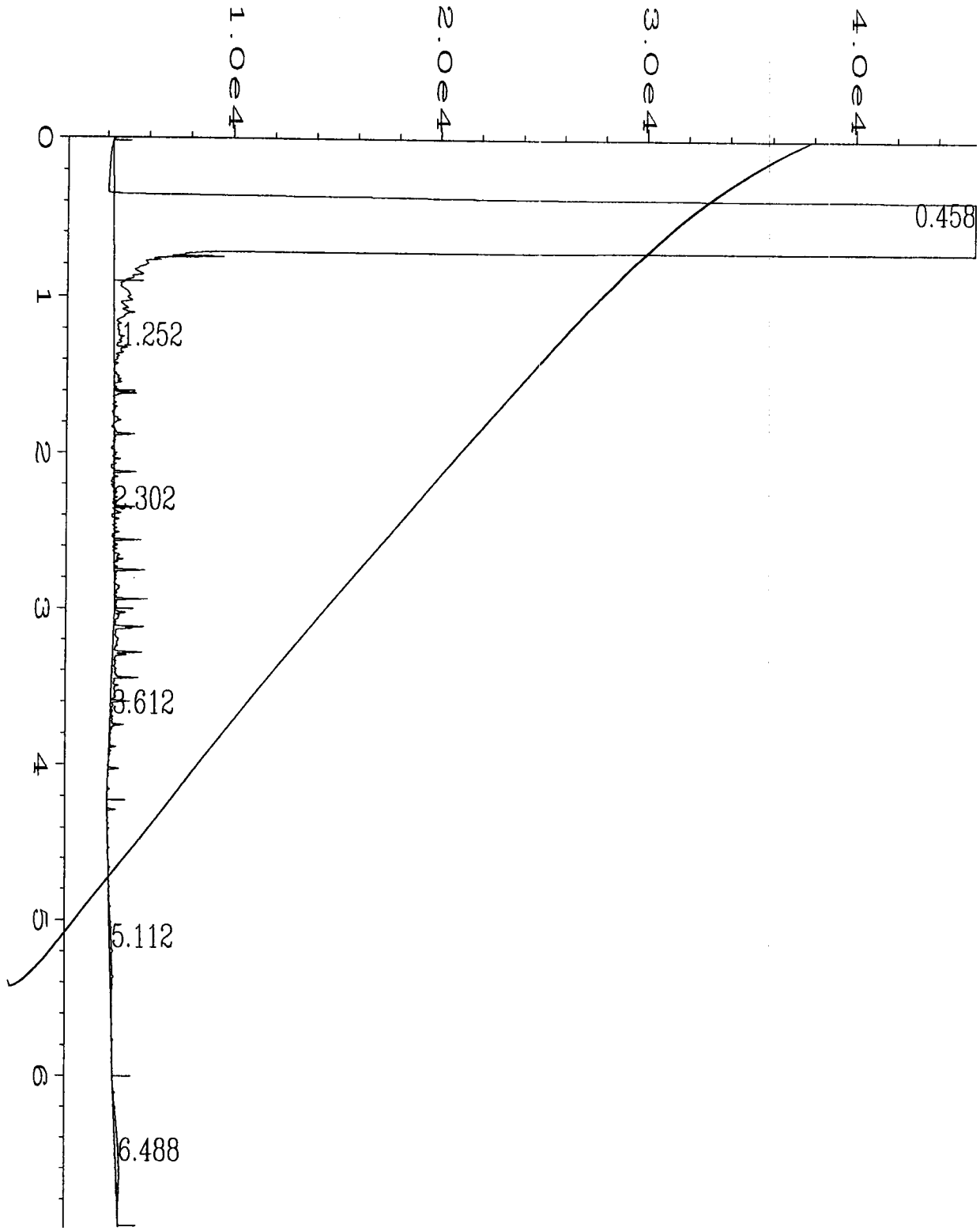
Page Number : 1
Vial Number : 11
Injection Number : 1
Sequence Line : 4
Instrument Method: DX1.MTH
Analysis Method : DX1.MTH

Sig. 1 in C:\HPCHEM\6\DATA\12-31-14\011F0401.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	2.940	44087	1930	MM	0.381	85.9626
2	4.283	7199	472	MM	0.254	14.0374

Total area = 51287

User Modified m 1/2/15



Data File Name	: C:\HPCHEM\6\DATA\12-31-14\011F0401.D		
Operator	: mwdl	Page Number	: 1
Instrument	: GC #6	Vial Number	: 11
Sample Name	: 5ppm dx 44-94	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 4
Acquired on	: 31 Dec 14 01:23 PM	Instrument Method	: DX1.MTH
Report Created on:	02 Jan 15 10:06 AM	Analysis Method	: DX1.MTH

Area Percent Report

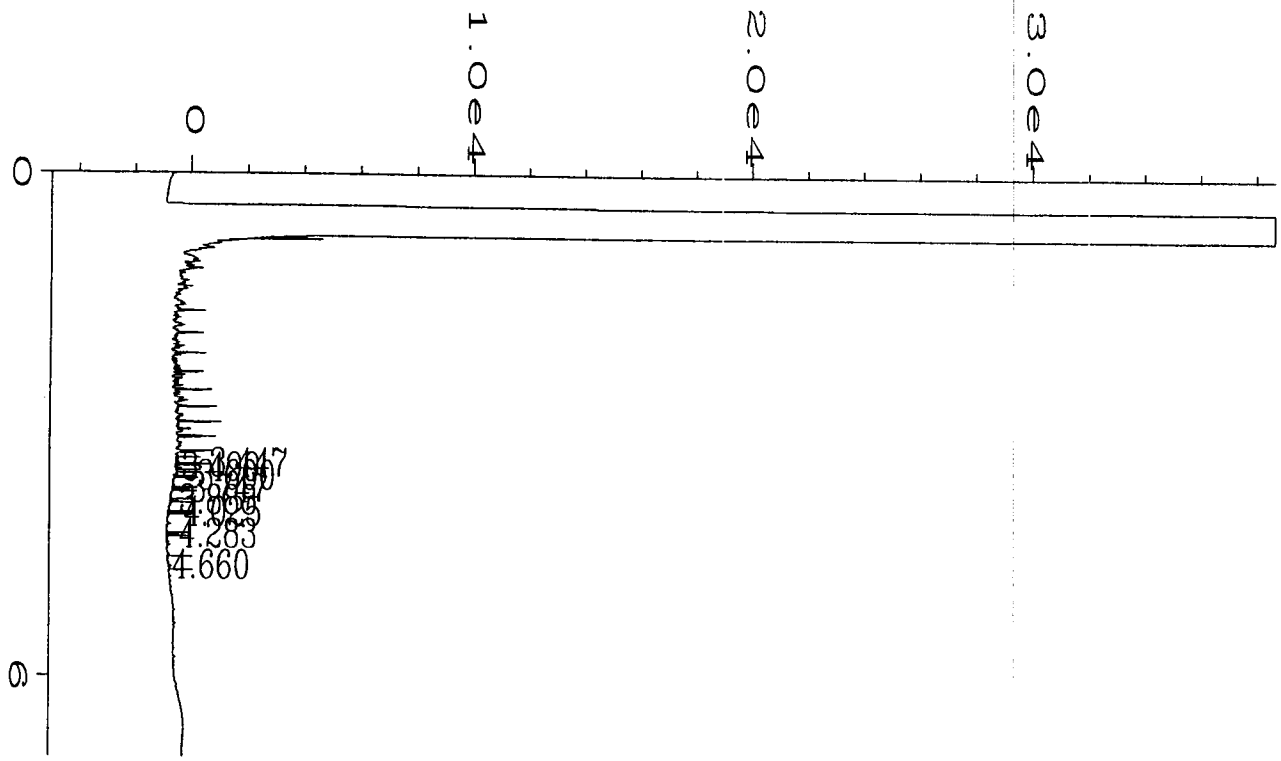
Data File Name : C:\HPCHEM\6\DATA\12-31-14\011F0401.D
Operator : mwdl
Instrument : GC #6
Sample Name : 5ppm dx 44-94
Run Time Bar Code:
Acquired on : 31 Dec 14 01:23 PM
Report Created on: 02 Jan 15 10:06 AM

Page Number : 1
Vial Number : 11
Injection Number : 1
Sequence Line : 4
Instrument Method: DX1.MTH
Analysis Method : DX1.MTH

Sig. 1 in C:\HPCHEM\6\DATA\12-31-14\011F0401.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.458	1.33682E+009	1.07443E+008	BVA	0.207	99.9972
2	1.252	13646	1008	VV +	0.000	0.0010
3	2.302	6304	1627	VB +	0.000	0.0005
4	3.612	9688	1559	BB +	0.000	0.0007
5	5.112	2774	277	BV +	0.000	0.0002
6	6.488	4643	183	PB +	0.000	0.0003

Total area = 1.33686E+009



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Area Percent Report

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Data File Name : C:\HPCHEM\6\DATA\12-31-14\011R0401.D
Operator : mwdl
Instrument : GC #6
Sample Name : 5ppm dx 44-94
Run Time Bar Code:
Acquired on : 31 Dec 14 01:23 PM
Report Created on: 02 Jan 15 10:07 AM

Page Number : 1
Vial Number : 11
Injection Number : 1
Sequence Line : 4
Instrument Method: DX1.MTH
Analysis Method : istnddx.MTH

Sig. 2 in C:\HPCHEM\6\DATA\12-31-14\011R0401.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	3.447	798	1238	BB	0.011	31.4879
2	3.499	118	238	BB	0.012	4.6680
3	3.600	414	845	BB	0.008	16.3365
4	3.747	346	631	BB	0.012	13.6707
5	3.888	166	350	BB	0.008	6.5556
6	4.025	309	578	BB	0.009	12.1973
7	4.283	202	445	BB	0.008	7.9734
8	4.660	180	102	BB	0.032	7.1106

Total area = 2534

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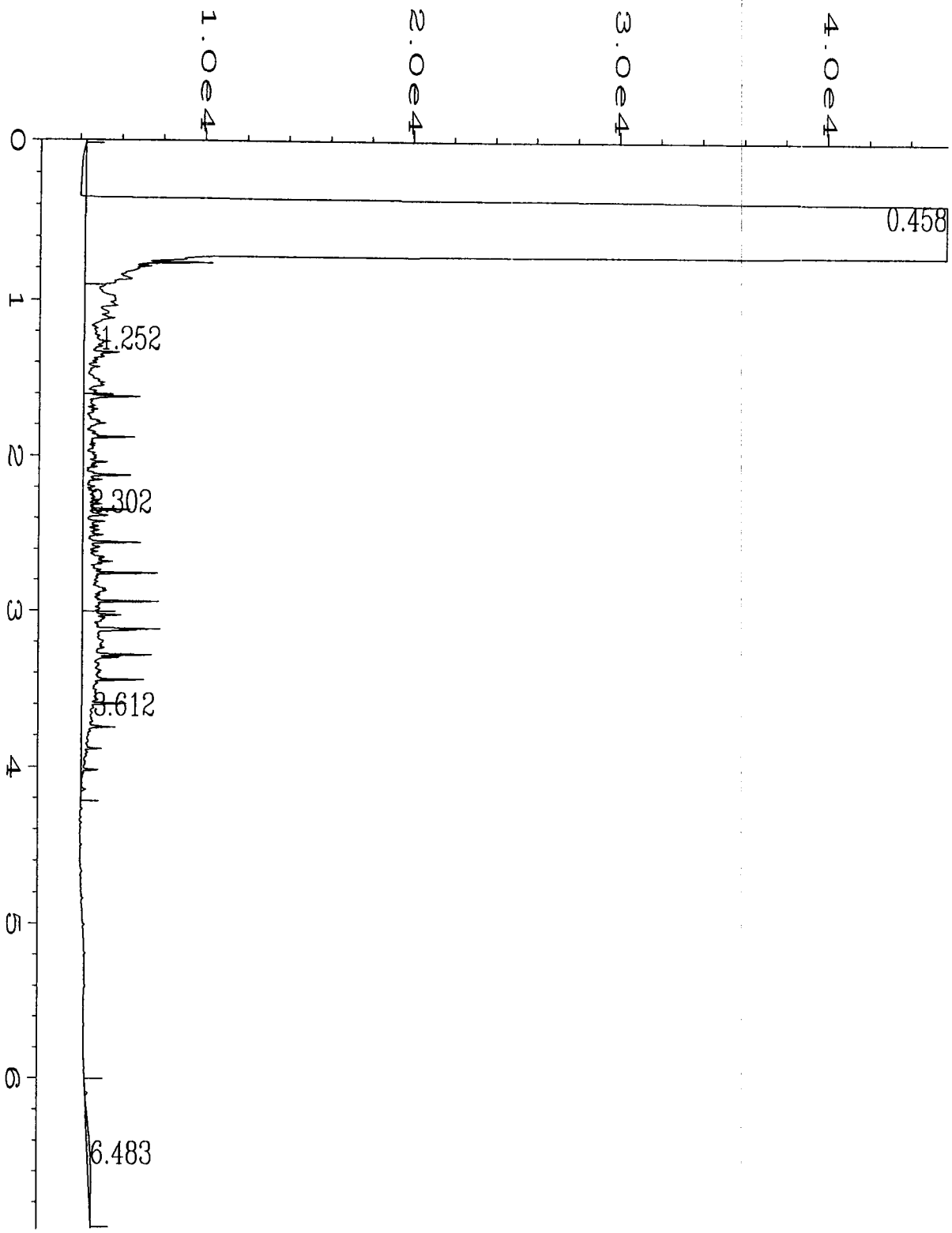
Last modified 1/2/15 mwdl			TPHDSL.XLS			
Data File Name	: C:\HPCHEM\6\DATA\12-31-14\011F0401.D					
Operator	: mwdl			Page Number	: 1	
Instrument	: GC #6			Vial Number	: 11	
Sample Name	: 5ppm dx 44-94			Injection Number	: 1	
Run Time Bar Code:				Sequence Line	: 4	
Acquired on	42004	0.5576389				
Report Created on: 02 Jan 15 10:06 AM				Analysis Method	: DX1.MTH	
Surr / IS	**Ret Time window**		**Area**	**Avg. Area**		
Triacontane					Calibrated	
0	>5.50	<5.55	0	1.00E+05	2/1/11	
Pentacosane						
0	>4.22	<4.31	202	1.09E+05	12/31/14	
o-Terphenyl						
0	>3.46	<3.54	118	1.24E+05	12/31/14	
Results			Area	Resp. factor	Calibrated	
Diesel, start C10 - start C25			44087			
4.4 2	>1.6	<4.22	1.59E+04	9.92E+03	12/31/14	
NWTPH-DX, start C10 - end C36			51287			
5.0 2	>1.6	<6.0	18446	1.02E+04	1/2/15	12/31/14
Motor Oil, start C25 - end C36						
0	>4.22	<6.0	2572	6.49E+03	12/31/14	
Heavy Oil, start C17 - end C36						
1	>3.0	<6.0	12142	8.73E+03	12/31/14	
C12-C24						
0	>5.7	<10.45	4525	9.42E+03	9/25/06	
Stoddard, start C8 - end C11						
3	>0.9	<3.0	19950	6.96E+03	1/8/13	
Kerosene, start C8 - end C20						
4	>0.9	<4.22	29520	6.65E+03	1/10/13	
C24-C38						
0	>10.45	<19.8	-202	9.42E+03	1/27/11	



Data File Name : C:\HPCHEM\6\DATA\12-31-14\012F0401.D
Operator : mwdl
Instrument : GC #6
Sample Name : 10ppm dx 44-94
Run Time Bar Code:
Acquired on : 31 Dec 14 01:33 PM
Report Created on: 02 Jan 15 10:07 AM

Page Number : 1
Vial Number : 12
Injection Number : 1
Sequence Line : 4
Instrument Method: DX1.MTH
Analysis Method : DX1.MTH

Area Percent Report

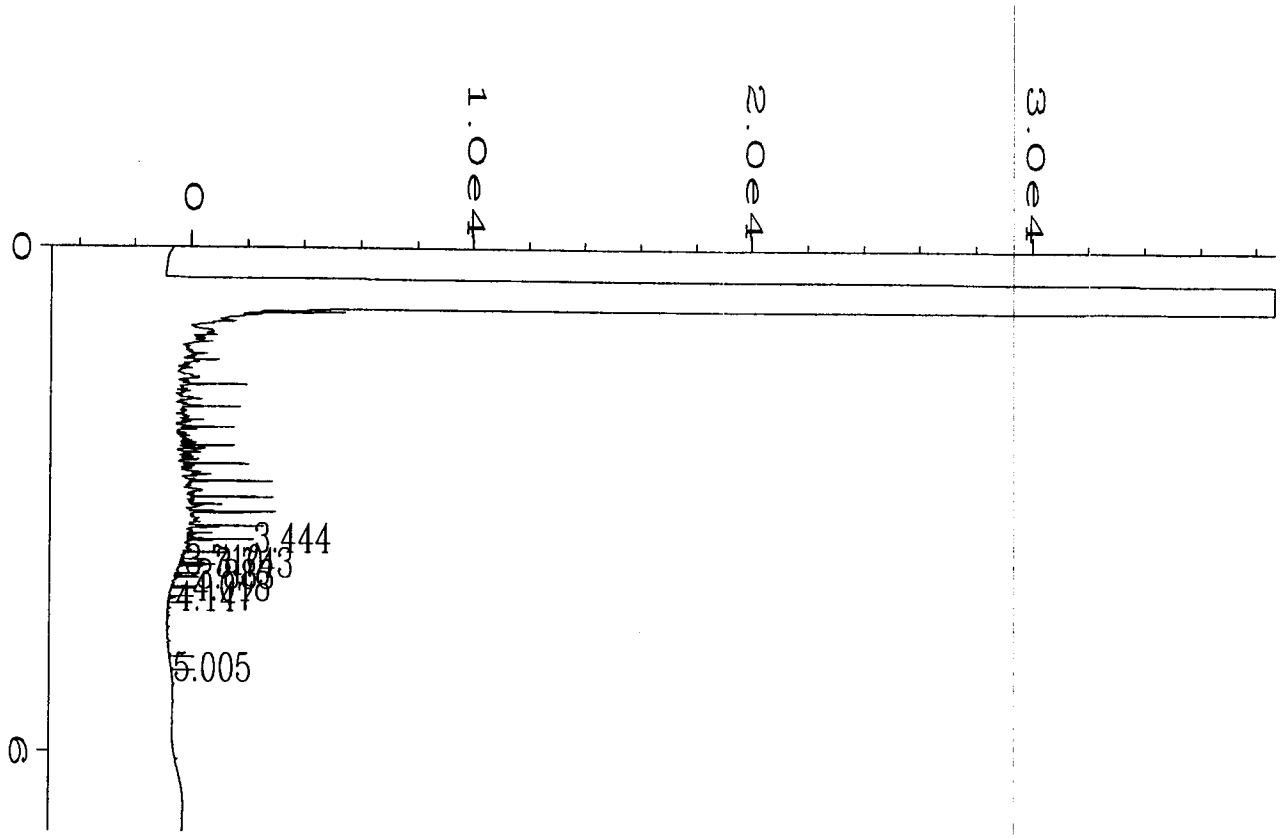
Data File Name : C:\HPCHEM\6\DATA\12-31-14\012F0401.D
Operator : mwdl
Instrument : GC #6
Sample Name : 10ppm dx 44-94
Run Time Bar Code:
Acquired on : 31 Dec 14 01:33 PM
Report Created on: 02 Jan 15 10:07 AM

Page Number : 1
Vial Number : 12
Injection Number : 1
Sequence Line : 4
Instrument Method: DX1.MTH
Analysis Method : DX1.MTH

Sig. 1 in C:\HPCHEM\6\DATA\12-31-14\012F0401.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.458	1.35584E+009	1.03002E+008	BVA	0.219	99.9901
2	1.252	32168	1680	VVA	0.319	0.0024
3	2.302	53799	3643	VVA	0.246	0.0040
4	3.612	43280	3745	VB +	0.000	0.0032
5	6.483	4836	185	PB +	0.000	0.0004

Total area = 1.35597E+009



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Area Percent Report

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Data File Name : C:\HPCHEM\6\DATA\12-31-14\012R0401.D
Operator : mwdl
Instrument : GC #6
Sample Name : 10ppm dx 44-94
Run Time Bar Code:
Acquired on : 31 Dec 14 01:33 PM
Report Created on: 02 Jan 15 10:07 AM

Page Number : 1
Vial Number : 12
Injection Number : 1
Sequence Line : 4
Instrument Method: DX1.MTH
Analysis Method : istnddx.MTH

Sig. 2 in C:\HPCHEM\6\DATA\12-31-14\012R0401.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	3.444	1577	2439	BB	0.011	44.4972
2	3.710	183	171	BB	0.018	5.1736
3	3.743	644	1300	BB	0.008	18.1754
4	3.883	398	795	BB	0.008	11.2151
5	4.018	391	776	BB	0.008	11.0219
6	4.147	234	241	BB	0.015	6.5888
7	5.005	118	87	BB	0.023	3.3279

Total area = 3545

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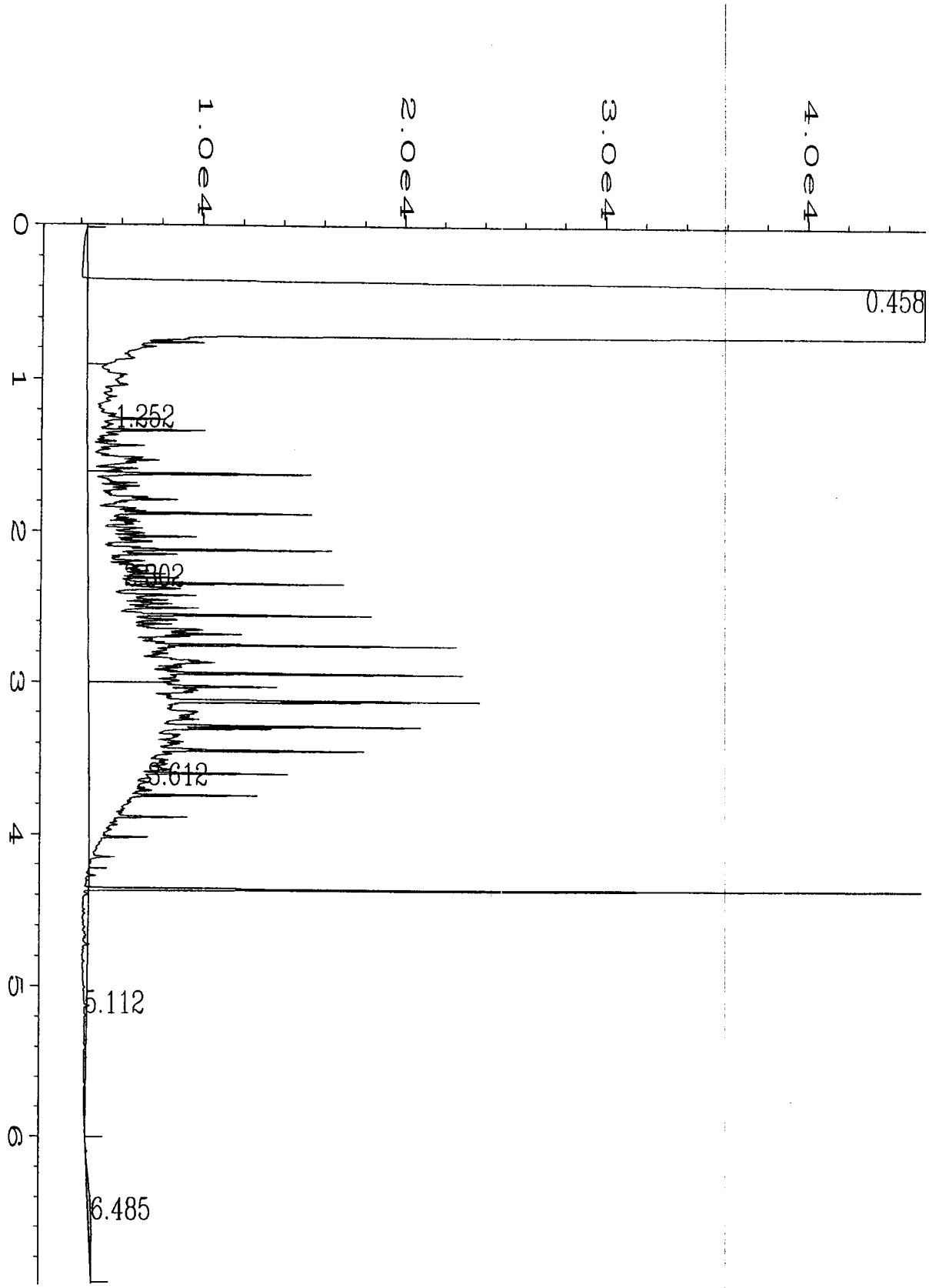
Last modified 1/2/15 mwdl			TPHDSL.XLS				
Data File Name	: C:\HPCHEM\6\DATA\12-31-14\012F0401.D						
Operator	: mwdl			Page Number		: 1	
Instrument	: GC #6			Vial Number		: 12	
Sample Name	: 10ppm dx 44-94			Injection Number		: 1	
Run Time Bar Code:				Sequence Line		: 4	
Acquired on	42004	0.5645833					
Report Created on: 02 Jan 15 10:07 AM				Analysis Method		: DX1.MTH	
Surr / IS	**Ret Time window**		**Area**	**Avg. Area**			
Triacontane						Calibrated	
0	>5.50	<5.55	0	1.00E+05		2/1/11	
Pentacosane							
0	>4.22	<4.31	0	1.09E+05		12/31/14	
o-Terphenyl							
0	>3.46	<3.54	0	1.24E+05		12/31/14	
Results			Area	Resp. factor		Calibrated	
Diesel, start C10 - start C25							
10	>1.6	<4.22	9.71E+04	9.92E+03		12/31/14	
NWTPH-DX, start C10 - end C36							
10	>1.6	<6.0	97079	1.02E+04		12/31/14	
Motor Oil, start C25 - end C36							
0	>4.22	<6.0	0	6.49E+03		12/31/14	
Heavy Oil, start C17 - end C36							
5	>3.0	<6.0	43280	8.73E+03		12/31/14	
C12-C24							
1	>5.7	<10.45	4836	9.42E+03		9/25/06	
Stoddard, start C8 - end C11							
12	>0.9	<3.0	85967	6.96E+03		1/8/13	
Kerosene, start C8 - end C20							
19	>0.9	<4.22	129247	6.65E+03		1/10/13	
C24-C38							
0	>10.45	<19.8	0	9.42E+03		1/27/11	



Data File Name : C:\HPCHEM\6\DATA\12-31-14\013F0401.D
Operator : mwdl
Instrument : GC #6
Sample Name : 50ppm dx 44-94
Run Time Bar Code:
Acquired on : 31 Dec 14 01:42 PM
Report Created on: 02 Jan 15 10:07 AM

Page Number : 1
Vial Number : 13
Injection Number : 1
Sequence Line : 4
Instrument Method: DX1.MTH
Analysis Method : DX1.MTH

Area Percent Report

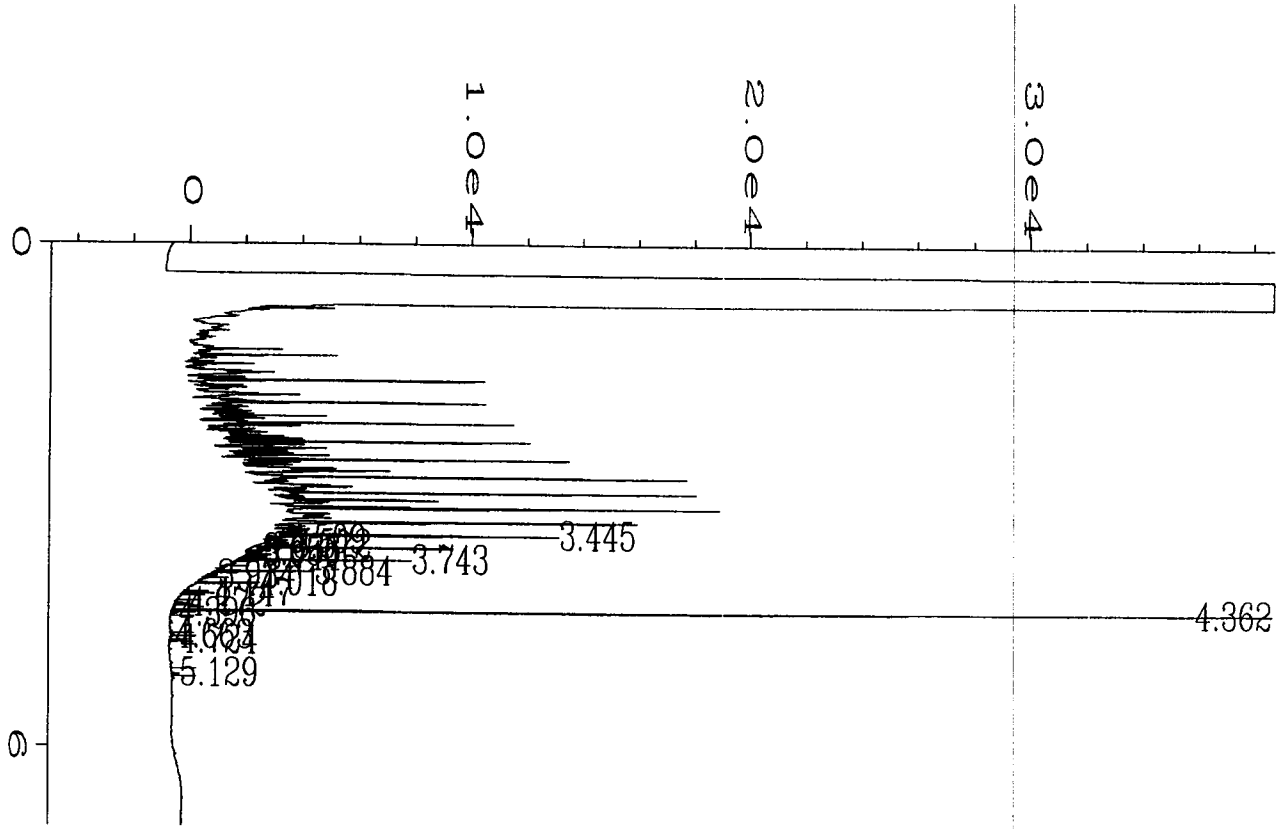
Data File Name : C:\HPCHEM\6\DATA\12-31-14\013F0401.D
Operator : mwdl
Instrument : GC #6
Sample Name : 50ppm dx 44-94
Run Time Bar Code:
Acquired on : 31 Dec 14 01:42 PM
Report Created on: 02 Jan 15 10:07 AM

Page Number : 1
Vial Number : 13
Injection Number : 1
Sequence Line : 4
Instrument Method: DX1.MTH
Analysis Method : DX1.MTH

Sig. 1 in C:\HPCHEM\6\DATA\12-31-14\013F0401.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.458	1.36979E+009	1.03048E+008	BVA	0.222	99.9600
2	1.252	51406	5792	VVA	0.148	0.0038
3	2.302	255049	18574	VV +	0.000	0.0186
4	3.612	228988	19314	VB +	0.000	0.0167
5	5.112	7966	41493	BV +	0.000	0.0006
6	6.485	4788	182	PB +	0.000	0.0003

Total area = 1.37034E+009



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Area Percent Report

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Data File Name : C:\HPCHEM\6\DATA\12-31-14\013R0401.D
Operator : mwdl
Instrument : GC #6
Sample Name : 50ppm dx 44-94
Run Time Bar Code:
Acquired on : 31 Dec 14 01:42 PM
Report Created on: 02 Jan 15 10:07 AM

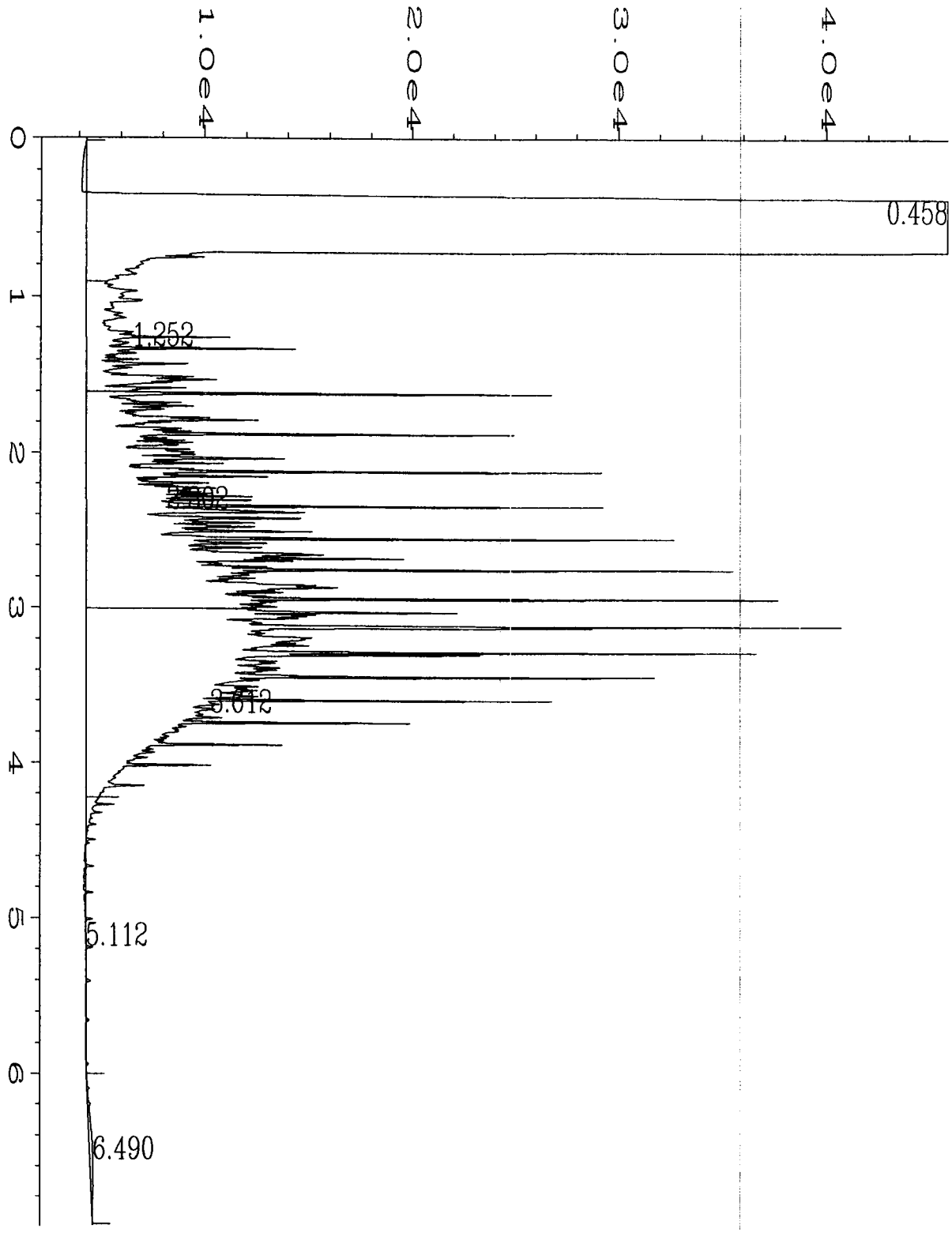
Page Number : 1
Vial Number : 13
Injection Number : 1
Sequence Line : 4
Instrument Method: DX1.MTH
Analysis Method : istnddx.MTH

Sig. 2 in C:\HPCHEM\6\DATA\12-31-14\013R0401.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	3.445	5911	10878	BB	0.009	13.3149
2	3.509	936	601	BB	0.031	2.1073
3	3.572	1261	1294	BB	0.016	2.8401
4	3.625	4439	537	BB	0.138	9.9991
5	3.656	442	591	BB	0.012	0.9956
6	3.711	721	819	BB	0.015	1.6246
7	3.743	2943	6382	BB	0.008	6.6291
8	3.884	1774	3646	BB	0.012	3.9963
9	3.934	346	400	BB	0.014	0.7793
10	4.018	1175	2447	BB	0.008	2.6458
11	4.147	683	1175	BB	0.012	1.5375
12	4.272	278	518	BB	0.013	0.6260
13	4.362	22655	46332	BB	0.008	51.0289
14	4.396	149	273	BB	0.009	0.3355
15	4.663	171	151	BB	0.019	0.3844
16	4.724	293	368	BB	0.013	0.6593
17	5.129	220	296	BB	0.017	0.4961

Total area = 44397

Last modified 1/2/15 mwdl			TPHDSL.XLS				
Data File Name	: C:\HPCHEM\6\DATA\12-31-14\013F0401.D						
Operator	: mwdl			Page Number		: 1	
Instrument	: GC #6			Vial Number		: 13	
Sample Name	: 50ppm dx 44-94			Injection Number		: 1	
Run Time Bar Code:				Sequence Line		: 4	
Acquired on	42004	0.5708333					
Report Created on: 02 Jan 15 10:07 AM				Analysis Method		: DX1.MTH	
Surr / IS	**Ret Time window**		**Area**	**Avg. Area**			
Triacontane						Calibrated	
0	>5.50	<5.55	0	1.00E+05		2/1/11	
Pentacosane							
0	>4.22	<4.31	278	1.09E+05		12/31/14	
o-Terphenyl							
1	>3.46	<3.54	936	1.24E+05		12/31/14	
Results			Area	Resp. factor		Calibrated	
Diesel, start C10 - start C25							
49	>1.6	<4.22	4.83E+05	9.92E+03		12/31/14	
NWTPH-DX, start C10 - end C36							
48	>1.6	<6.0	490789	1.02E+04		12/31/14	
Motor Oil, start C25 - end C36							
1	>4.22	<6.0	7688	6.49E+03		12/31/14	
Heavy Oil, start C17 - end C36							
27	>3.0	<6.0	235740	8.73E+03		12/31/14	
C12-C24							
0	>5.7	<10.45	3852	9.42E+03		9/25/06	
Stoddard, start C8 - end C11							
44	>0.9	<3.0	306455	6.96E+03		1/8/13	
Kerosene, start C8 - end C20							
80	>0.9	<4.22	534507	6.65E+03		1/10/13	
C24-C38							
0	>10.45	<19.8	-278	9.42E+03		1/27/11	



Data File Name	: C:\HPCHEM\6\DATA\12-31-14\014F0401.D		
Operator	: mwdl	Page Number	: 1
Instrument	: GC #6	Vial Number	: 14
Sample Name	: 100ppm dx 44-94	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 4
Acquired on	: 31 Dec 14 01:53 PM	Instrument Method	: DX1.MTH
Report Created on:	02 Jan 15 10:07 AM	Analysis Method	: DX1.MTH

Area Percent Report

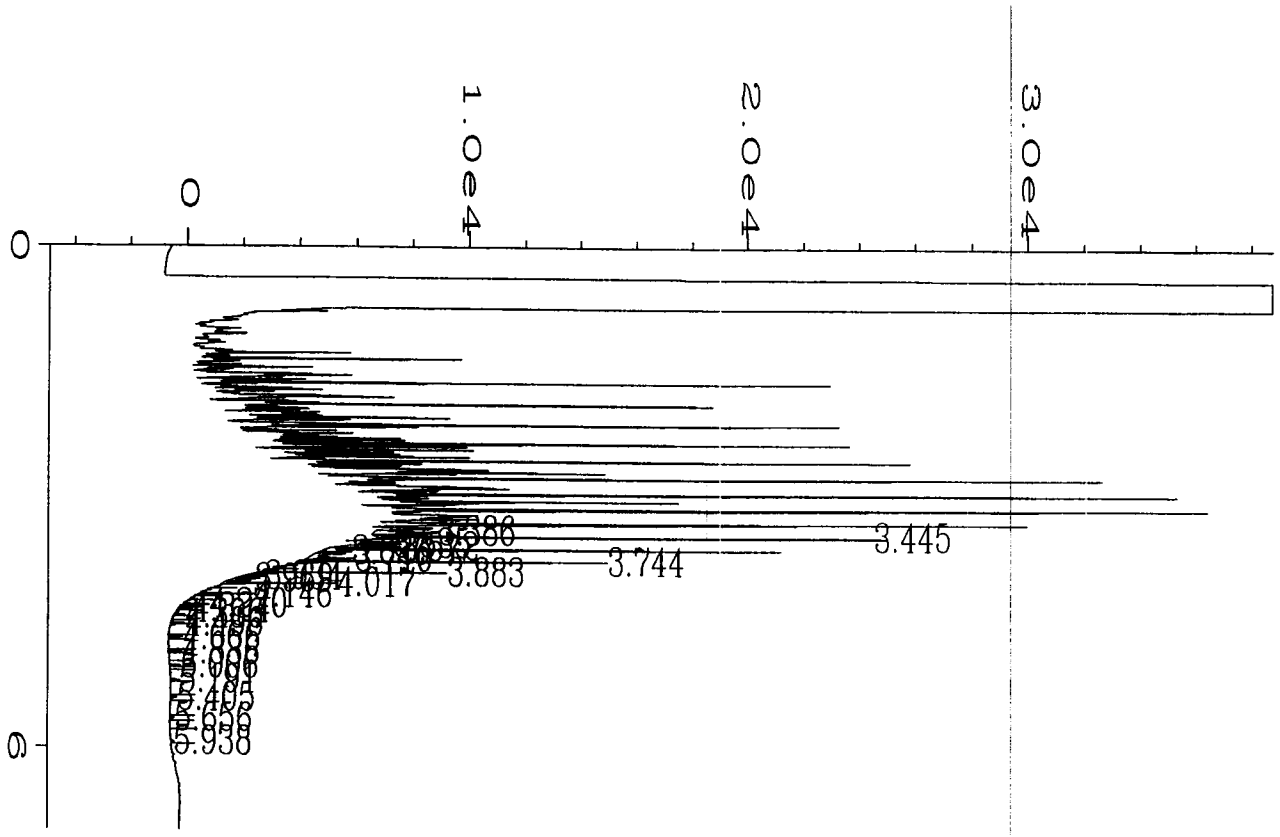
Data File Name : C:\HPCHEM\6\DATA\12-31-14\014F0401.D
Operator : mwdl
Instrument : GC #6
Sample Name : 100ppm dx 44-94
Run Time Bar Code:
Acquired on : 31 Dec 14 01:53 PM
Report Created on: 02 Jan 15 10:07 AM

Page Number : 1
Vial Number : 14
Injection Number : 1
Sequence Line : 4
Instrument Method: DX1.MTH
Analysis Method : DX1.MTH

Sig. 1 in C:\HPCHEM\6\DATA\12-31-14\014F0401.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.458	1.28219E+009	1.01892E+008	BVA	0.210	99.9159
2	1.252	81145	10011	VVA	0.135	0.0063
3	2.302	516232	33369	VVA	0.258	0.0402
4	3.612	474866	36372	VVA	0.218	0.0370
5	5.112	2327	1335	VV +	0.000	0.0002
6	6.490	4765	176	PB +	0.000	0.0004

Total area = 1.28327E+009



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Area Percent Report

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Data File Name : C:\HPCHEM\6\DATA\12-31-14\014R0401.D
Operator : mwdl
Instrument : GC #6
Sample Name : 100ppm dx 44-94
Run Time Bar Code:
Acquired on : 31 Dec 14 01:53 PM
Report Created on: 02 Jan 15 10:07 AM

Page Number : 1
Vial Number : 14
Injection Number : 1
Sequence Line : 4
Instrument Method: DX1.MTH
Analysis Method : istnddx.MTH

Sig. 2 in C:\HPCHEM\6\DATA\12-31-14\014R0401.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	3.386	3162	2366	BB	0.022	6.9361
2	3.445	10626	20028	BB	0.009	23.3128
3	3.535	1350	1148	BB	0.018	2.9612
4	3.572	2447	2318	BB	0.018	5.3674
5	3.626	8473	1137	BB	0.124	18.5885
6	3.710	3028	1733	BB	0.026	6.6429
7	3.744	5243	11338	BB	0.008	11.5032
8	3.883	3320	6979	BB	0.012	7.2845
9	3.934	784	811	BB	0.016	1.7199
10	3.969	684	885	BB	0.013	1.5005
11	4.017	1965	4202	BB	0.008	4.3115
12	4.146	1353	2009	BB	0.011	2.9686
13	4.270	495	969	BB	0.014	1.0869
14	4.324	307	538	BB	0.010	0.6734
15	4.396	257	424	BB	0.010	0.5636
16	4.496	299	528	BB	0.009	0.6560
17	4.666	382	523	BB	0.012	0.8377
18	4.836	301	481	BB	0.010	0.6593
19	5.006	256	404	BB	0.011	0.5613
20	5.191	293	335	BB	0.014	0.6435

21	5.405	254	248	BB	0.016	0.5581
22	5.656	188	161	BB	0.019	0.4118
23	5.938	115	117	BB	0.016	0.2515

Total area = 45581

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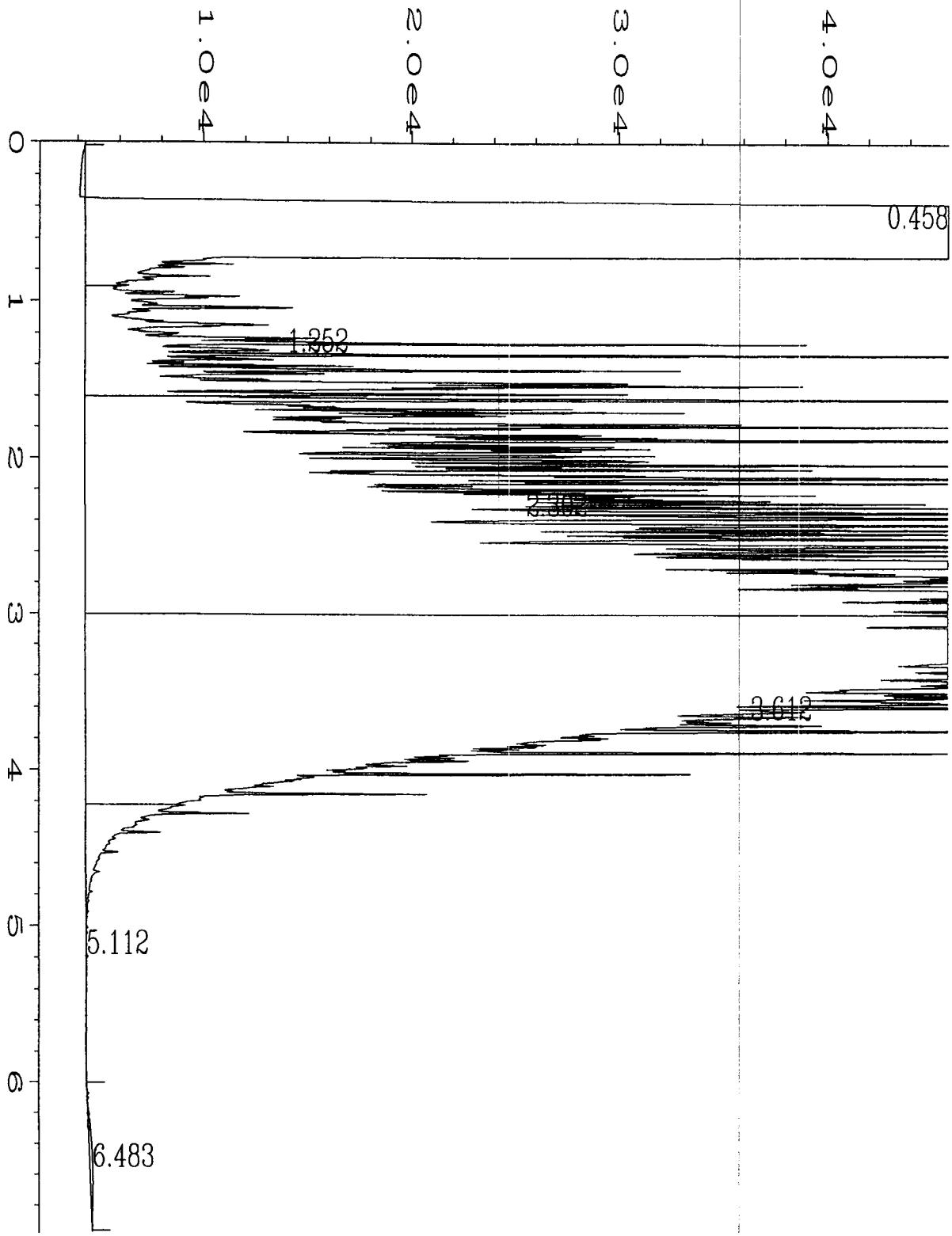
Last modified 1/2/15 mwdl			TPHDSL.XLS				
Data File Name	: C:\HPCHEM\6\DATA\12-31-14\014F0401.D						
Operator	: mwdl			Page Number		: 1	
Instrument	: GC #6			Vial Number		: 14	
Sample Name	: 100ppm dx 44-94			Injection Number		: 1	
Run Time Bar Code:				Sequence Line		: 4	
Acquired on	42004	0.5784722					
Report Created on: 02 Jan 15 10:07 AM				Analysis Method		: DX1.MTH	
Surr / IS	**Ret Time window**		**Area**	**Avg. Area**			
Triacontane						Calibrated	
0	>5.50	<5.55	0	1.00E+05		2/1/11	
Pentacosane							
0	>4.22	<4.31	495	1.09E+05		12/31/14	
o-Terphenyl							
1	>3.46	<3.54	1350	1.24E+05		12/31/14	
Results			Area	Resp. factor		Calibrated	
Diesel, start C10 - start C25							
100	>1.6	<4.22	9.90E+05	9.92E+03		12/31/14	
NWTPH-DX, start C10 - end C36							
98	>1.6	<6.0	991580	1.02E+04		12/31/14	
Motor Oil, start C25 - end C36							
0	>4.22	<6.0	1832	6.49E+03		12/31/14	
Heavy Oil, start C17 - end C36							
54	>3.0	<6.0	475348	8.73E+03		12/31/14	
C12-C24							
0	>5.7	<10.45	3415	9.42E+03		9/25/06	
Stoddard, start C8 - end C11							
86	>0.9	<3.0	597377	6.96E+03		1/8/13	
Kerosene, start C8 - end C20							
161	>0.9	<4.22	1070893	6.65E+03		1/10/13	
C24-C38							
0	>10.45	<19.8	-495	9.42E+03		1/27/11	



Data File Name : C:\HPCHEM\6\DATA\12-31-14\015F0401.D
Operator : mwdl
Instrument : GC #6
Sample Name : 500ppm dx 44-94
Run Time Bar Code:
Acquired on : 31 Dec 14 02:04 PM
Report Created on: 02 Jan 15 10:08 AM

Page Number : 1
Vial Number : 15
Injection Number : 1
Sequence Line : 4
Instrument Method: DX1.MTH
Analysis Method : DX1.MTH

Area Percent Report

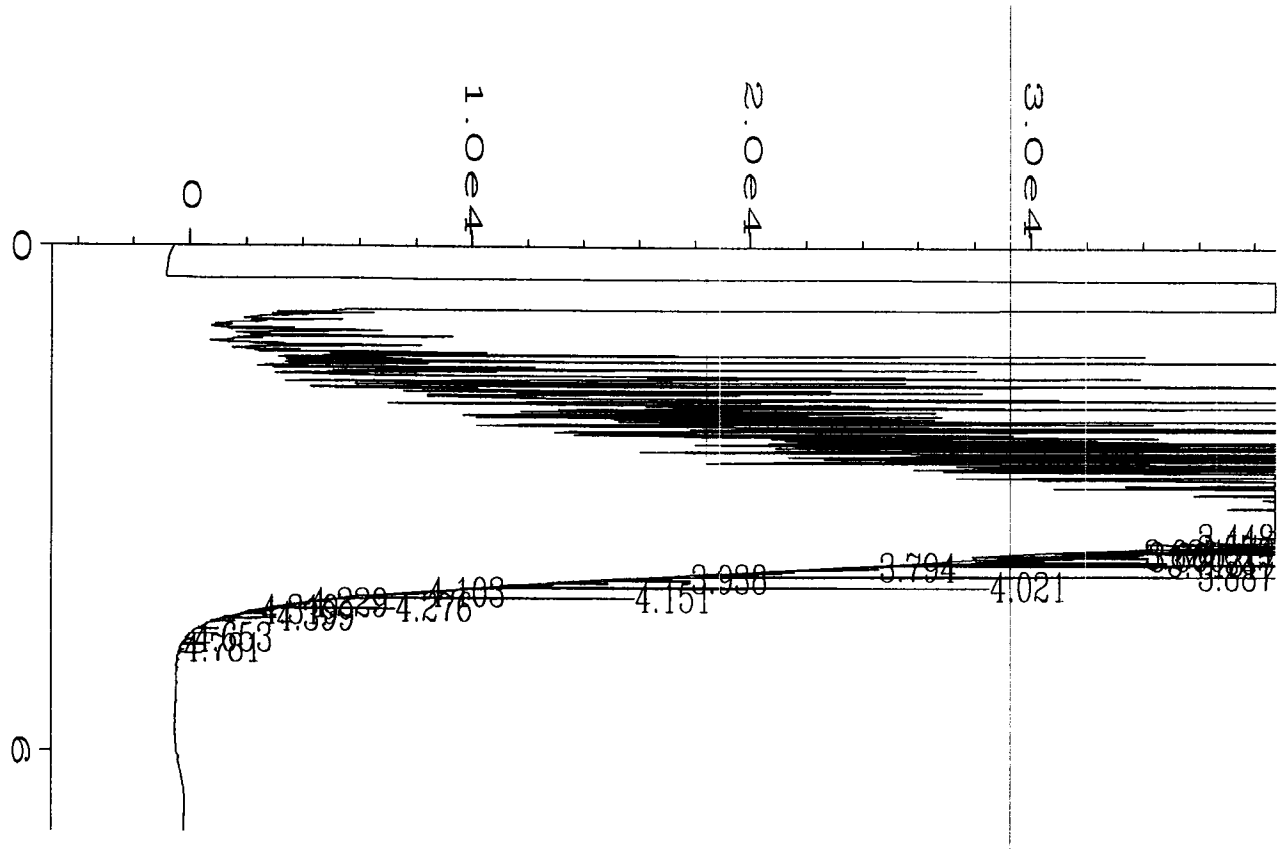
Data File Name : C:\HPCHEM\6\DATA\12-31-14\015F0401.D
Operator : mwdl
Instrument : GC #6
Sample Name : 500ppm dx 44-94
Run Time Bar Code:
Acquired on : 31 Dec 14 02:04 PM
Report Created on: 02 Jan 15 10:08 AM

Page Number : 1
Vial Number : 15
Injection Number : 1
Sequence Line : 4
Instrument Method: DX1.MTH
Analysis Method : DX1.MTH

Sig. 1 in C:\HPCHEM\6\DATA\12-31-14\015F0401.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.458	1.35575E+009	1.03857E+008	BVA	0.218	99.5814
2	1.252	315083	52458	VVA	0.100	0.0231
3	2.302	2725745	177456	VV +	0.000	0.2002
4	3.612	2604237	186747	VVA	0.232	0.1913
5	5.112	49620	7764	VV +	0.000	0.0036
6	6.483	4398	169	PB +	0.000	0.0003

Total area = 1.36145E+009



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Area Percent Report

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Data File Name : C:\HPCHEM\6\DATA\12-31-14\015R0401.D
Operator : mwdl
Instrument : GC #6
Sample Name : 500ppm dx 44-94
Run Time Bar Code:
Acquired on : 31 Dec 14 02:04 PM
Report Created on: 02 Jan 15 10:08 AM

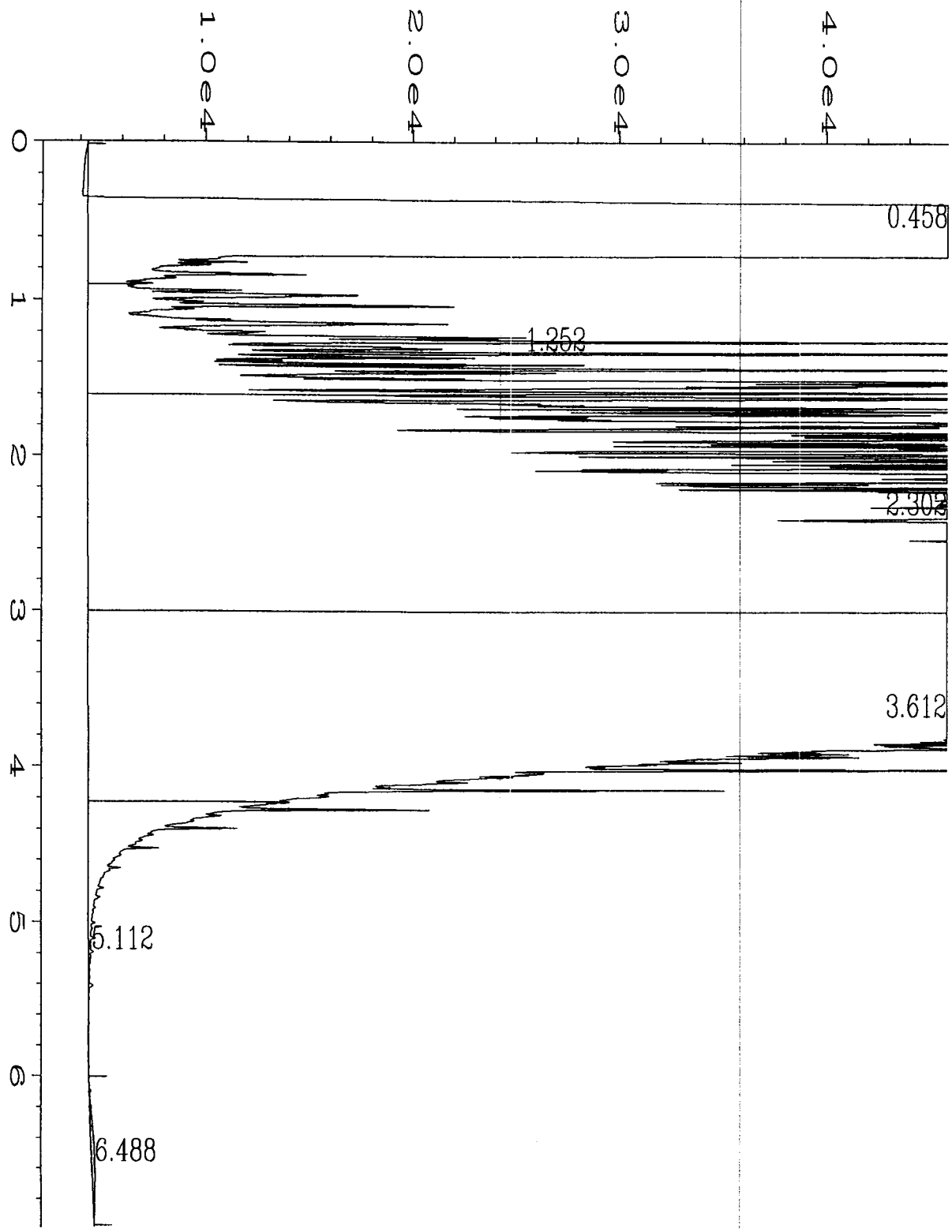
Page Number : 1
Vial Number : 15
Injection Number : 1
Sequence Line : 4
Instrument Method: DX1.MTH
Analysis Method : istnddx.MTH

Sig. 2 in C:\HPCHEM\6\DATA\12-31-14\015R0401.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	3.448	57385	104704	BB	0.009	26.9399
2	3.574	18483	13273	BB	0.022	8.6768
3	3.627	44137	5316	BB	0.138	20.7205
4	3.660	4679	6264	BB	0.012	2.1966
5	3.713	8392	8506	BB	0.018	3.9396
6	3.747	28326	61075	BB	0.008	13.2978
7	3.794	3245	2674	BB	0.020	1.5234
8	3.887	19790	37297	BB	0.012	9.2907
9	3.938	4105	4092	BB	0.017	1.9273
10	4.021	10523	19418	BB	0.009	4.9402
11	4.103	2586	1341	BB	0.032	1.2140
12	4.151	5670	10780	BB	0.009	2.6618
13	4.229	1106	646	BB	0.029	0.5193
14	4.276	2768	4811	BB	0.015	1.2994
15	4.319	358	522	BB	0.011	0.1682
16	4.399	1145	2077	BB	0.015	0.5377
17	4.653	202	313	BB	0.014	0.0949
18	4.781	111	177	BB	0.010	0.0520

Total area = 213011

Last modified 1/2/15 mwdl			TPHDSL.XLS				
Data File Name	: C:\HPCHEM\6\DATA\12-31-14\015F0401.D						
Operator	: mwdl				Page Number	: 1	
Instrument	: GC #6				Vial Number	: 15	
Sample Name	: 500ppm dx 44-94				Injection Number	: 1	
Run Time Bar Code:					Sequence Line	: 4	
Acquired on	42004	0.5861111					
Report Created on: 02 Jan 15 10:08 AM					Analysis Method	: DX1.MTH	
Surr / IS	**Ret Time window**		**Area**	**Avg. Area**			
Triacontane						Calibrated	
0	>5.50	<5.55	0	1.00E+05		2/1/11	
Pentacosane							
3	>4.22	<4.31	2768	1.09E+05		12/31/14	
o-Terphenyl							
0	>3.46	<3.54	0	1.24E+05		12/31/14	
Results			Area	Resp. factor		Calibrated	
Diesel, start C10 - start C25							
537	>1.6	<4.22	5.33E+06	9.92E+03		12/31/14	
NWTPH-DX, start C10 - end C36							
529	>1.6	<6.0	5376834	1.02E+04		12/31/14	
Motor Oil, start C25 - end C36							
7	>4.22	<6.0	46852	6.49E+03		12/31/14	
Heavy Oil, start C17 - end C36							
304	>3.0	<6.0	2651089	8.73E+03		12/31/14	
C12-C24							
0	>5.7	<10.45	4398	9.42E+03		9/25/06	
Stoddard, start C8 - end C11							
437	>0.9	<3.0	3040828	6.96E+03		1/8/13	
Kerosene, start C8 - end C20							
849	>0.9	<4.22	5645065	6.65E+03		1/10/13	
C24-C38							
0	>10.45	<19.8	-2768	9.42E+03		1/27/11	



Data File Name	: C:\HPCHEM\6\DATA\12-31-14\016F0401.D		
Operator	: mwdl	Page Number	: 1
Instrument	: GC #6	Vial Number	: 16
Sample Name	: 1000ppm dx 44-94	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 4
Acquired on	: 31 Dec 14 02:14 PM	Instrument Method	: DX1.MTH
Report Created on:	02 Jan 15 10:08 AM	Analysis Method	: DX1.MTH

Area Percent Report

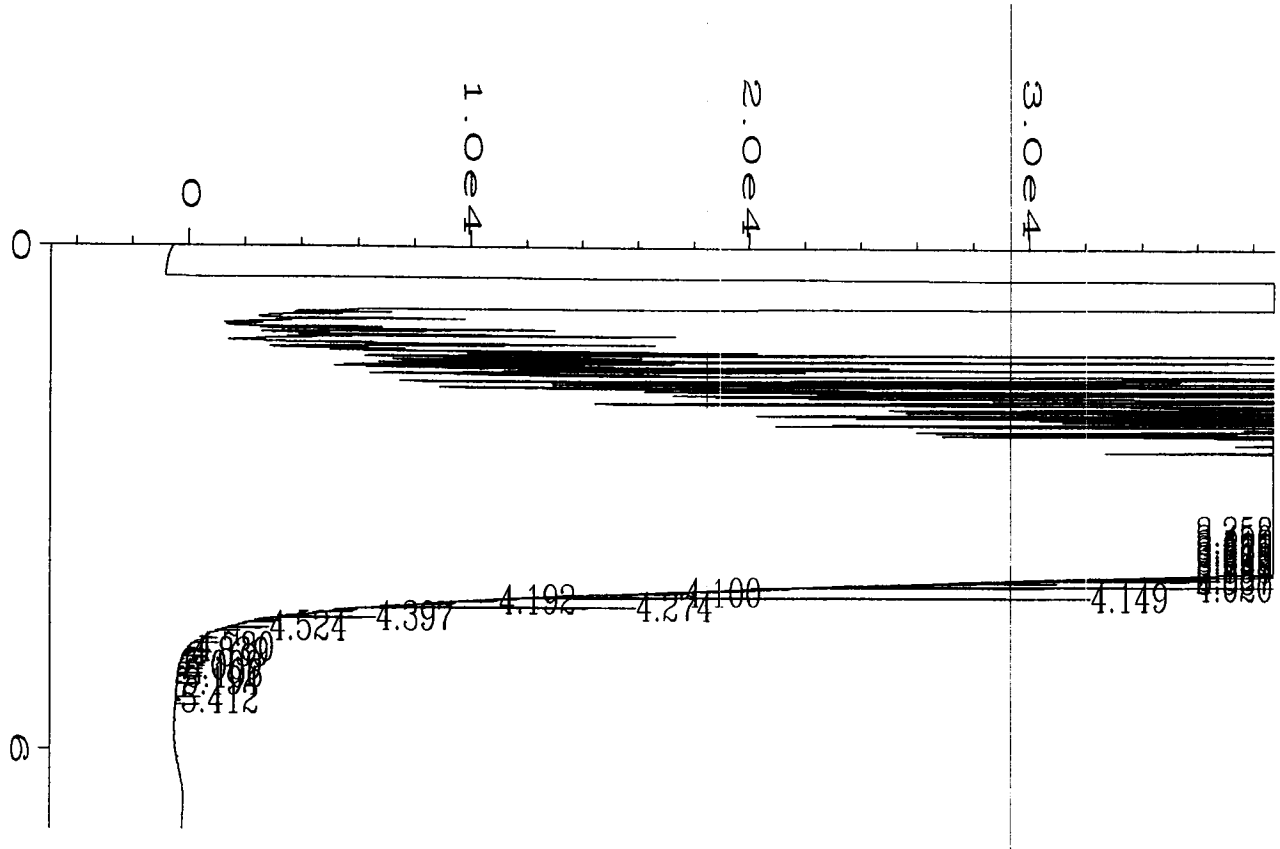
Data File Name : C:\HPCHEM\6\DATA\12-31-14\016F0401.D
Operator : mwdl
Instrument : GC #6
Sample Name : 1000ppm dx 44-94
Run Time Bar Code:
Acquired on : 31 Dec 14 02:14 PM
Report Created on: 02 Jan 15 10:08 AM

Page Number : 1
Vial Number : 16
Injection Number : 1
Sequence Line : 4
Instrument Method: DX1.MTH
Analysis Method : DX1.MTH

Sig. 1 in C:\HPCHEM\6\DATA\12-31-14\016F0401.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.458	1.349E+009	1.0393E+008	BVA	0.216	99.1576
2	1.252	611157	108353	VVA	0.094	0.0449
3	2.302	5500475	350966	VVA	0.261	0.4043
4	3.612	5232545	335234	VVA	0.260	0.3846
5	5.112	111890	16398	VB +	0.000	0.0082
6	6.488	4484	168	BB +	0.000	0.0003

Total area = 1.36046E+009



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Area Percent Report

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Data File Name : C:\HPCHEM\6\DATA\12-31-14\016R0401.D
Operator : mwdl
Instrument : GC #6
Sample Name : 1000ppm dx 44-94
Run Time Bar Code:
Acquired on : 31 Dec 14 02:14 PM
Report Created on: 02 Jan 15 10:08 AM

Page Number : 1
Vial Number : 16
Injection Number : 1
Sequence Line : 4
Instrument Method: DX1.MTH
Analysis Method : istnddx.MTH

Sig. 2 in C:\HPCHEM\6\DATA\12-31-14\016R0401.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	3.358	16857	11446	BB	0.025	3.9684
2	3.450	115618	212385	BB	0.009	27.2181
3	3.511	184	12856	BB	0.000	0.0433
4	3.539	14945	12695	BB	0.018	3.5183
5	3.576	23128	22507	BB	0.016	5.4446
6	3.602	74172	161183	BB	0.008	17.4612
7	3.660	11047	10650	BB	0.018	2.6006
8	3.695	3036	4577	BB	0.011	0.7146
9	3.747	65111	118475	BB	0.009	15.3280
10	3.793	8068	6212	BB	0.022	1.8992
11	3.887	38743	73487	BB	0.012	9.1207
12	3.937	7479	7716	BB	0.016	1.7607
13	4.020	20472	41786	BB	0.008	4.8193
14	4.100	4660	2348	BB	0.033	1.0970
15	4.149	10941	21131	BB	0.009	2.5757
16	4.192	1026	1151	BB	0.015	0.2415
17	4.274	5641	9854	BB	0.016	1.3280
18	4.397	1722	3502	BB	0.015	0.4053
19	4.524	803	1529	BB	0.009	0.1889
20	4.780	183	311	BB	0.010	0.0430

21	4.839	269	255	BB	0.018	0.0632
22	5.009	128	195	BB	0.011	0.0301
23	5.106	172	263	BB	0.011	0.0405
24	5.194	144	171	BB	0.014	0.0339
25	5.412	236	186	BB	0.019	0.0556

Total area = 424782

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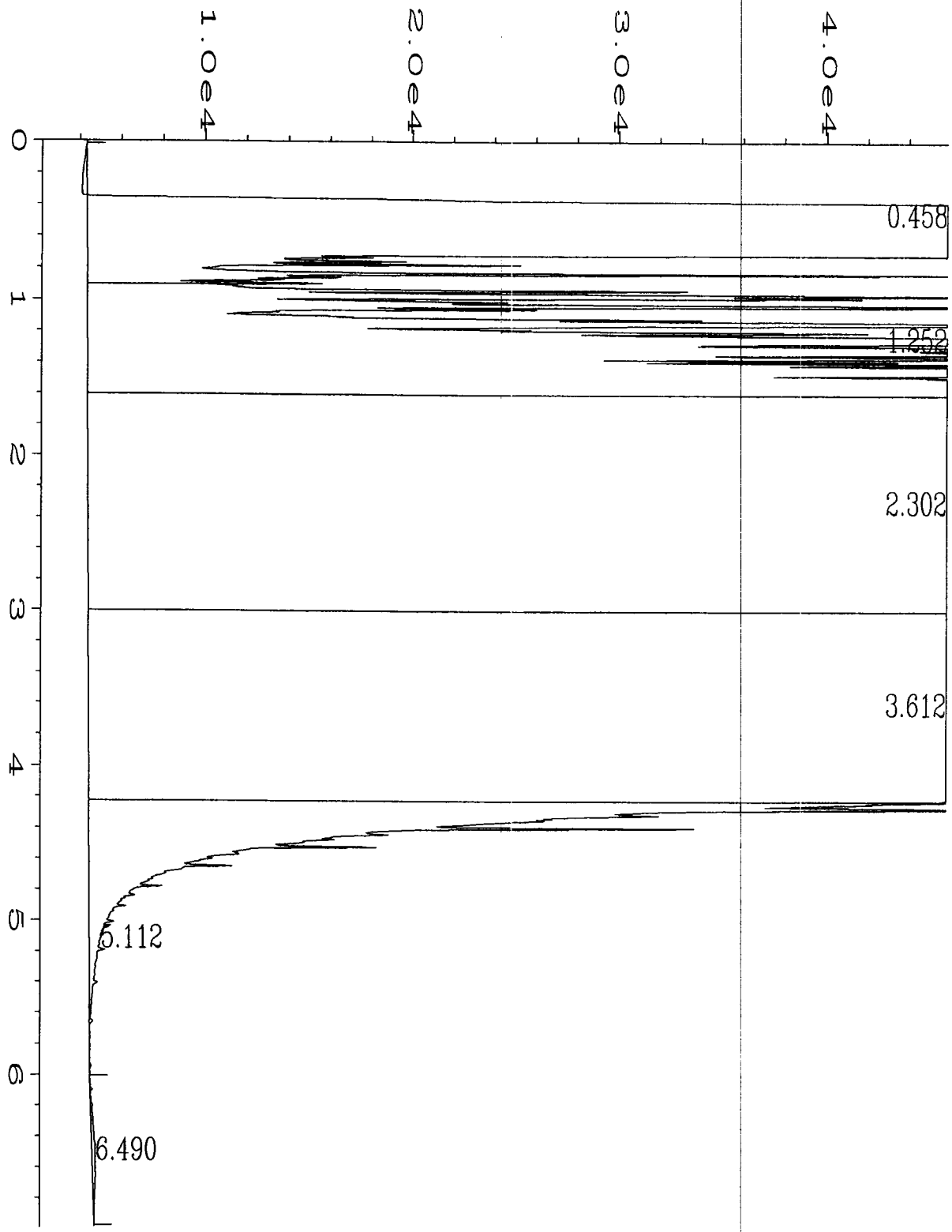
Last modified 1/2/15 mwdl			TPHDSL.XLS			
Data File Name	: C:\HPCHEM\6\DATA\12-31-14\016F0401.D					
Operator	: mwdl			Page Number	: 1	
Instrument	: GC #6			Vial Number	: 16	
Sample Name	: 1000ppm dx 44-94			Injection Number	: 1	
Run Time Bar Code:				Sequence Line	: 4	
Acquired on	42004	0.5930556				
Report Created on: 02 Jan 15 10:08 AM				Analysis Method	: DX1.MTH	
Surr / IS	**Ret Time window**		**Area**	**Avg. Area**		
Triacontane					Calibrated	
0	>5.50	<5.55	0	1.00E+05	2/1/11	
Pentacosane						
5	>4.22	<4.31	5641	1.09E+05	12/31/14	
o-Terphenyl						
12	>3.46	<3.54	14945	1.24E+05	12/31/14	
Results			Area	Resp. factor	Calibrated	
Diesel, start C10 - start C25						
1081	>1.6	<4.22	1.07E+07	9.92E+03	12/31/14	
NWTPH-DX, start C10 - end C36						
1065	>1.6	<6.0	10824324	1.02E+04	12/31/14	
Motor Oil, start C25 - end C36						
16	>4.22	<6.0	106249	6.49E+03	12/31/14	
Heavy Oil, start C17 - end C36						
610	>3.0	<6.0	5323849	8.73E+03	12/31/14	
C12-C24						
-1	>5.7	<10.45	-10461	9.42E+03	9/25/06	
Stoddard, start C8 - end C11						
878	>0.9	<3.0	6111632	6.96E+03	1/8/13	
Kerosene, start C8 - end C20						
1705	>0.9	<4.22	11329232	6.65E+03	1/10/13	
C24-C38						
-1	>10.45	<19.8	-5641	9.42E+03	1/27/11	



Data File Name	: C:\HPCHEM\6\DATA\12-31-14\017F0401.D		
Operator	: mwdl	Page Number	: 1
Instrument	: GC #6	Vial Number	: 17
Sample Name	: 5000ppm dx 44-94	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 4
Acquired on	: 31 Dec 14 02:25 PM	Instrument Method	: DX1.MTH
Report Created on:	02 Jan 15 10:08 AM	Analysis Method	: DX1.MTH

Area Percent Report

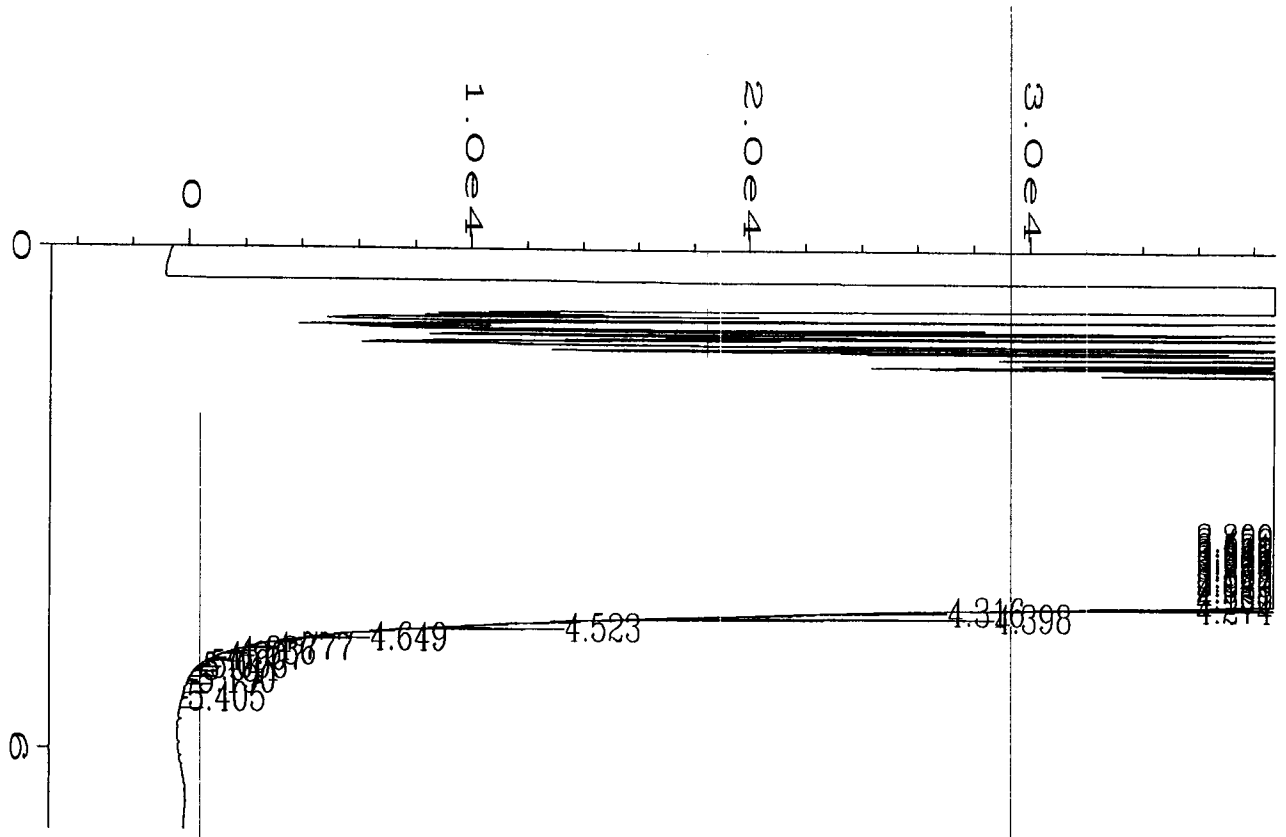
Data File Name : C:\HPCHEM\6\DATA\12-31-14\017F0401.D
Operator : mwdl
Instrument : GC #6
Sample Name : 5000ppm dx 44-94
Run Time Bar Code:
Acquired on : 31 Dec 14 02:25 PM
Report Created on: 02 Jan 15 10:08 AM

Page Number : 1
Vial Number : 17
Injection Number : 1
Sequence Line : 4
Instrument Method: DX1.MTH
Analysis Method : DX1.MTH

Sig. 1 in C:\HPCHEM\6\DATA\12-31-14\017F0401.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.458	1.28418E+009	1.03968E+008	BVA	0.206	96.1284
2	1.252	2664652	417790	VVA	0.106	0.1995
3	2.302	2.47702E+007	1123975	VV +	0.000	1.8542
4	3.612	2.3781E+007	1076733	VVA	0.368	1.7802
5	5.112	499814	62318	VVA	0.134	0.0374
6	6.490	4922	174	PB +	0.000	0.0004

Total area = 1.3359E+009



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Area Percent Report

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Data File Name : C:\HPCHEM\6\DATA\12-31-14\017R0401.D
Operator : mwdl
Instrument : GC #6
Sample Name : 5000ppm dx 44-94
Run Time Bar Code:
Acquired on : 31 Dec 14 02:25 PM
Report Created on: 02 Jan 15 10:08 AM

Page Number : 1
Vial Number : 17
Injection Number : 1
Sequence Line : 4
Instrument Method: DX1.MTH
Analysis Method : istnddx.MTH

Sig. 2 in C:\HPCHEM\6\DATA\12-31-14\017R0401.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	3.399	71683	68797	BB	0.017	5.1889
2	3.459	368684	609073	BB	0.010	26.6876
3	3.521	5114	36279	BB	0.002	0.3701
4	3.549	36882	40881	BB	0.015	2.6697
5	3.583	41298	78013	BB	0.009	2.9894
6	3.611	231364	420661	BB	0.009	16.7475
7	3.636	18345	27353	BB	0.011	1.3279
8	3.667	36008	40325	BB	0.015	2.6065
9	3.720	50688	40729	BB	0.021	3.6691
10	3.754	180741	359324	BB	0.008	13.0831
11	3.835	25548	10112	BB	0.042	1.8493
12	3.892	132150	224158	BB	0.014	9.5658
13	3.940	20739	26423	BB	0.013	1.5012
14	4.023	80165	142449	BB	0.009	5.8028
15	4.101	12543	4014	BB	0.052	0.9080
16	4.150	33745	66962	BB	0.011	2.4427
17	4.274	19145	32320	BB	0.010	1.3858
18	4.316	2465	3746	BB	0.011	0.1784
19	4.398	8307	13750	BB	0.010	0.6013
20	4.523	2448	5356	BB	0.012	0.1772

21	4.649	1281	2394	BB	0.012	0.0928
22	4.777	393	1091	BB	0.006	0.0284
23	4.836	260	423	BB	0.010	0.0189
24	4.907	472	525	BB	0.015	0.0341
25	5.006	380	403	BB	0.016	0.0275
26	5.041	194	276	BB	0.012	0.0141
27	5.190	263	356	BB	0.016	0.0190
28	5.405	178	196	BB	0.014	0.0129

Total area = 1381482

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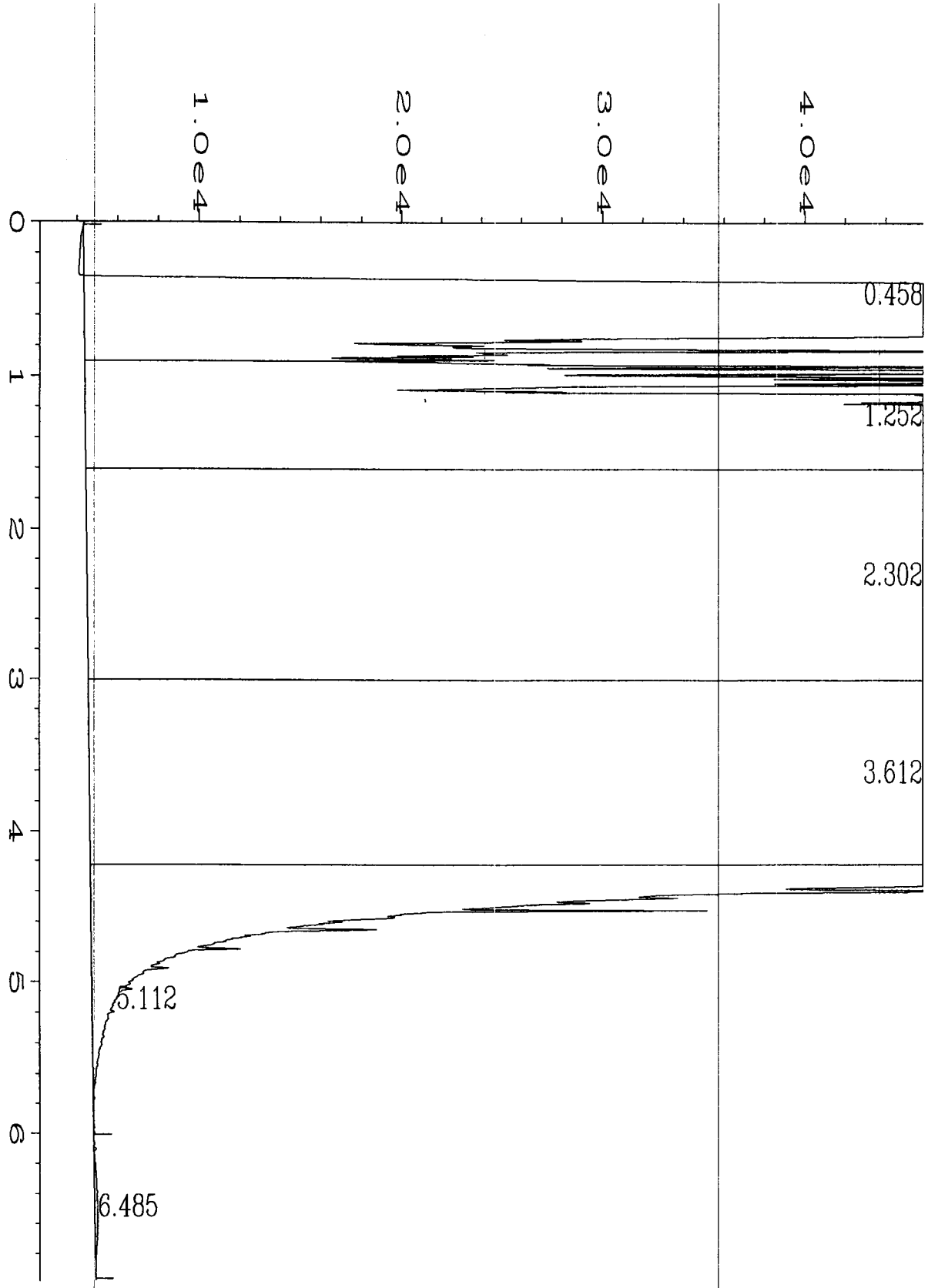
Last modified 1/2/15 mwdl			TPHDSL.XLS				
Data File Name	: C:\HPCHEM\6\DATA\12-31-14\017F0401.D						
Operator	: mwdl			Page Number	:	1	
Instrument	: GC #6			Vial Number	:	17	
Sample Name	: 5000ppm dx 44-94			Injection Number	:	1	
Run Time Bar Code:				Sequence Line	:	4	
Acquired on	42004	0.6006944					
Report Created on: 02 Jan 15 10:08 AM				Analysis Method	:	DX1.MTH	
Surr / IS	**Ret Time window**		**Area**	**Avg. Area**			
Triacontane						Calibrated	
0	>5.50	<5.55	0	1.00E+05		2/1/11	
Pentacosane							
18	>4.22	<4.31	19145	1.09E+05		12/31/14	
o-Terphenyl							
4	>3.46	<3.54	5114	1.24E+05		12/31/14	
Results			Area	Resp. factor		Calibrated	
Diesel, start C10 - start C25							
4895	>1.6	<4.22	4.85E+07	9.92E+03		12/31/14	
NWTPH-DX, start C10 - end C36							
4822	>1.6	<6.0	49026755	1.02E+04		12/31/14	
Motor Oil, start C25 - end C36							
74	>4.22	<6.0	480669	6.49E+03		12/31/14	
Heavy Oil, start C17 - end C36							
2778	>3.0	<6.0	24256555	8.73E+03		12/31/14	
C12-C24							
0	>5.7	<10.45	-192	9.42E+03		9/25/06	
Stoddard, start C8 - end C11							
3940	>0.9	<3.0	27434852	6.96E+03		1/8/13	
Kerosene, start C8 - end C20							
7706	>0.9	<4.22	51210738	6.65E+03		1/10/13	
C24-C38							
-2	>10.45	<19.8	-19145	9.42E+03		1/27/11	



Data File Name	: C:\HPCHEM\6\DATA\12-31-14\018F0401.D		
Operator	: mwdl	Page Number	: 1
Instrument	: GC #6	Vial Number	: 18
Sample Name	: 10kppm dx 44-94	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 4
Acquired on	: 31 Dec 14 02:36 PM	Instrument Method	: DX1.MTH
Report Created on	: 02 Jan 15 10:08 AM	Analysis Method	: DX1.MTH

Area Percent Report

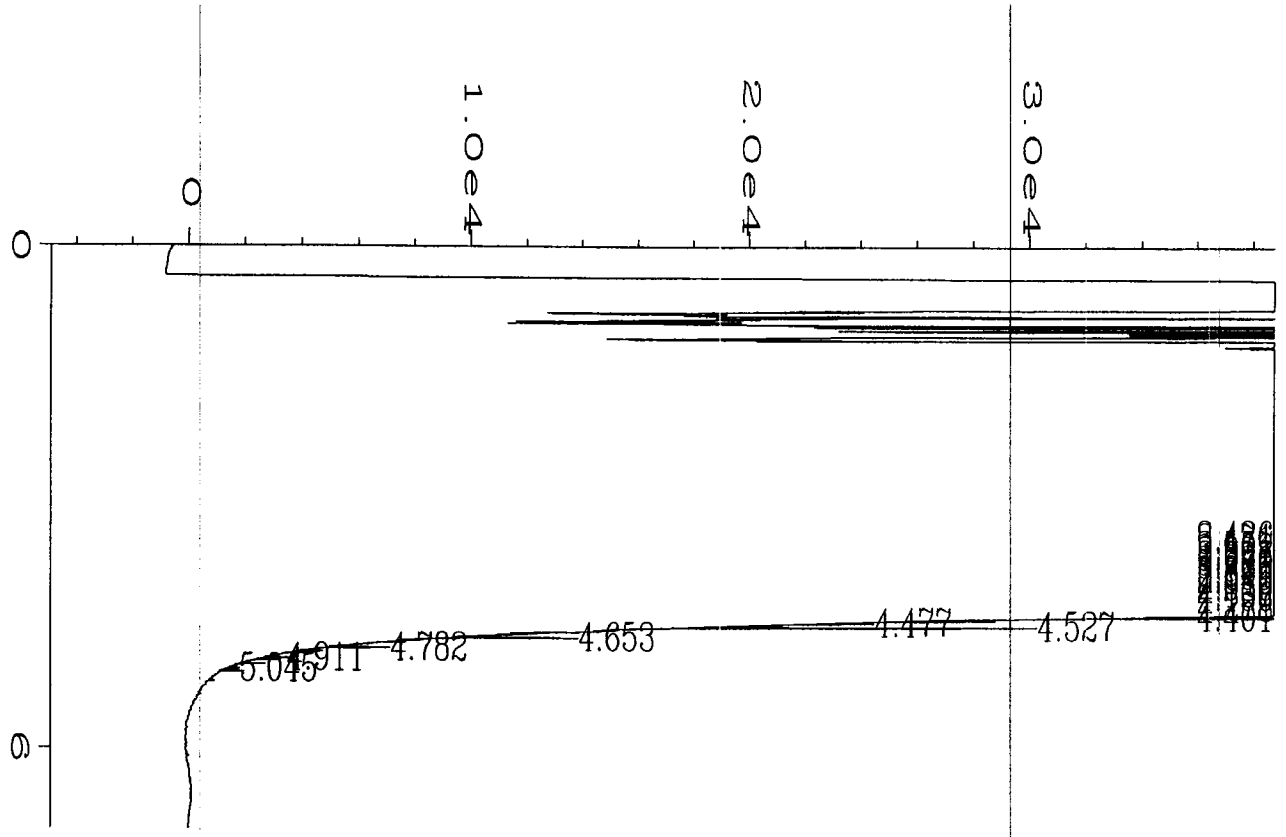
Data File Name : C:\HPCHEM\6\DATA\12-31-14\018F0401.D
Operator : mwdl
Instrument : GC #6
Sample Name : 10kppm dx 44-94
Run Time Bar Code:
Acquired on : 31 Dec 14 02:36 PM
Report Created on: 02 Jan 15 10:08 AM

Page Number : 1
Vial Number : 18
Injection Number : 1
Sequence Line : 4
Instrument Method: DX1.MTH
Analysis Method : DX1.MTH

Sig. 1 in C:\HPCHEM\6\DATA\12-31-14\018F0401.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.458	1.3163E+009	1.02129E+008	BV +	0.000	92.3536
2	1.252	5529787	564346	VVA	0.163	0.3880
3	2.302	5.22691E+007	1751690	VVA	0.497	3.6673
4	3.612	5.01198E+007	1816481	VVA	0.460	3.5165
5	5.112	1059745	125186	VVA	0.141	0.0744
6	6.485	4857	166	PB +	0.000	0.0003

Total area = 1.42528E+009



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Area Percent Report

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Data File Name : C:\HPCHEM\6\DATA\12-31-14\018R0401.D
Operator : mwdl
Instrument : GC #6
Sample Name : 10kppm dx 44-94
Run Time Bar Code:
Acquired on : 31 Dec 14 02:36 PM
Report Created on: 02 Jan 15 10:08 AM

Page Number : 1
Vial Number : 18
Injection Number : 1
Sequence Line : 4
Instrument Method: DX1.MTH
Analysis Method : istnddx.MTH

Sig. 2 in C:\HPCHEM\6\DATA\12-31-14\018R0401.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	3.436	174409	115811	BB	0.025	6.1519
2	3.471	772046	774659	BB	0.015	27.2324
3	3.557	178684	90503	BB	0.028	6.3027
4	3.591	92602	123614	BB	0.012	3.2664
5	3.621	417669	640784	BB	0.011	14.7325
6	3.675	44790	38103	BB	0.020	1.5799
7	3.730	125471	128521	BB	0.016	4.4257
8	3.763	367072	580709	BB	0.011	12.9478
9	3.845	50905	32898	BB	0.026	1.7956
10	3.871	32555	49644	BB	0.011	1.1483
11	3.899	219870	414546	BB	0.009	7.7555
12	3.946	39894	46215	BB	0.014	1.4072
13	4.030	157721	278998	BB	0.009	5.5633
14	4.107	19178	9133	BB	0.035	0.6765
15	4.156	75377	137044	BB	0.009	2.6588
16	4.278	38755	66550	BB	0.010	1.3670
17	4.401	13060	26700	BB	0.008	0.4607
18	4.477	4227	2380	BB	0.030	0.1491
19	4.527	6093	13717	BB	0.007	0.2149
20	4.653	2710	4580	BB	0.015	0.0956

21	4.782	837	2248	BB	0.011	0.0295
22	4.911	642	1009	BB	0.011	0.0226
23	5.045	457	456	BB	0.015	0.0161

Total area = 2835025

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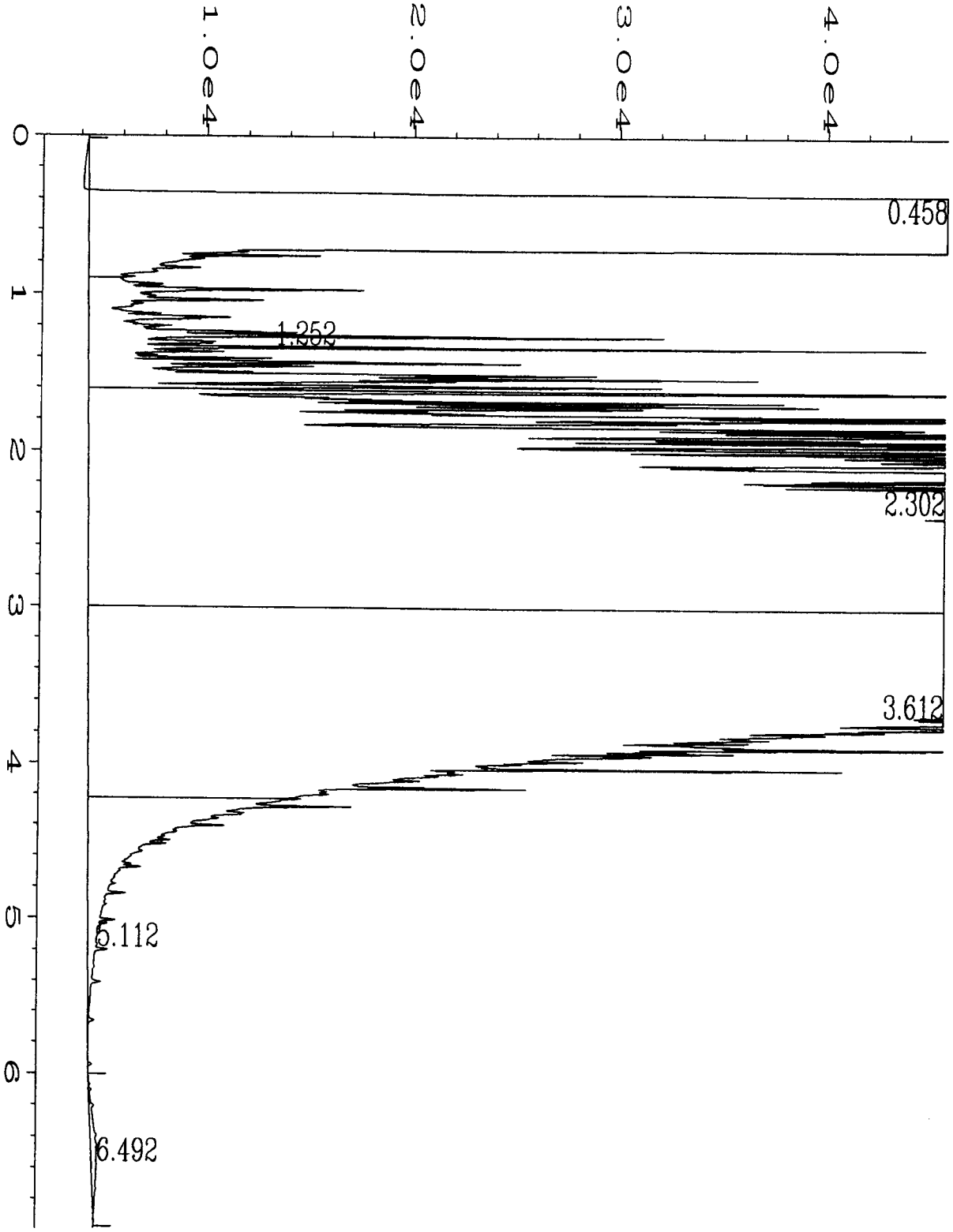
Last modified 1/2/15 mwdl			TPHDSL.XLS				
Data File Name	: C:\HPCHEM\6\DATA\12-31-14\018F0401.D						
Operator	: mwdl			Page Number	:	1	
Instrument	: GC #6			Vial Number	:	18	
Sample Name	: 10kppm dx 44-94			Injection Number	:	1	
Run Time Bar Code:				Sequence Line	:	4	
Acquired on	42004	0.6083333					
Report Created on: 02 Jan 15 10:08 AM				Analysis Method	:	DX1.MTH	
Surr / IS	**Ret Time window**		**Area**	**Avg. Area**			
Triacontane						Calibrated	
0	>5.50	<5.55	0	1.00E+05		2/1/11	
Pentacosane							
36	>4.22	<4.31	38755	1.09E+05		12/31/14	
o-Terphenyl							
625	>3.46	<3.54	772046	1.24E+05		12/31/14	
Results			Area	Resp. factor		Calibrated	
Diesel, start C10 - start C25							
10247	>1.6	<4.22	1.02E+08	9.92E+03		12/31/14	
NWTPH-DX, start C10 - end C36							
10094	>1.6	<6.0	########	1.02E+04		12/31/14	
Motor Oil, start C25 - end C36							
157	>4.22	<6.0	1020990	6.49E+03		12/31/14	
Heavy Oil, start C17 - end C36							
5768	>3.0	<6.0	50368744	8.73E+03		12/31/14	
C12-C24							
-81	>5.7	<10.45	-767189	9.42E+03		9/25/06	
Stoddard, start C8 - end C11							
8300	>0.9	<3.0	57798887	6.96E+03		1/8/13	
Kerosene, start C8 - end C20							
16123	>0.9	<4.22	########	6.65E+03		1/10/13	
C24-C38							
-4	>10.45	<19.8	-38755	9.42E+03		1/27/11	



Data File Name	: C:\HPCHEM\6\DATA\12-31-14\019F0601.D		
Operator	: mwdl	Page Number	: 1
Instrument	: GC #6	Vial Number	: 19
Sample Name	: 1000 dx2' 43-120	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 6
Acquired on	: 31 Dec 14 02:59 PM	Instrument Method	: DX1.MTH
Report Created on	: 02 Jan 15 10:09 AM	Analysis Method	: DX1.MTH

Area Percent Report

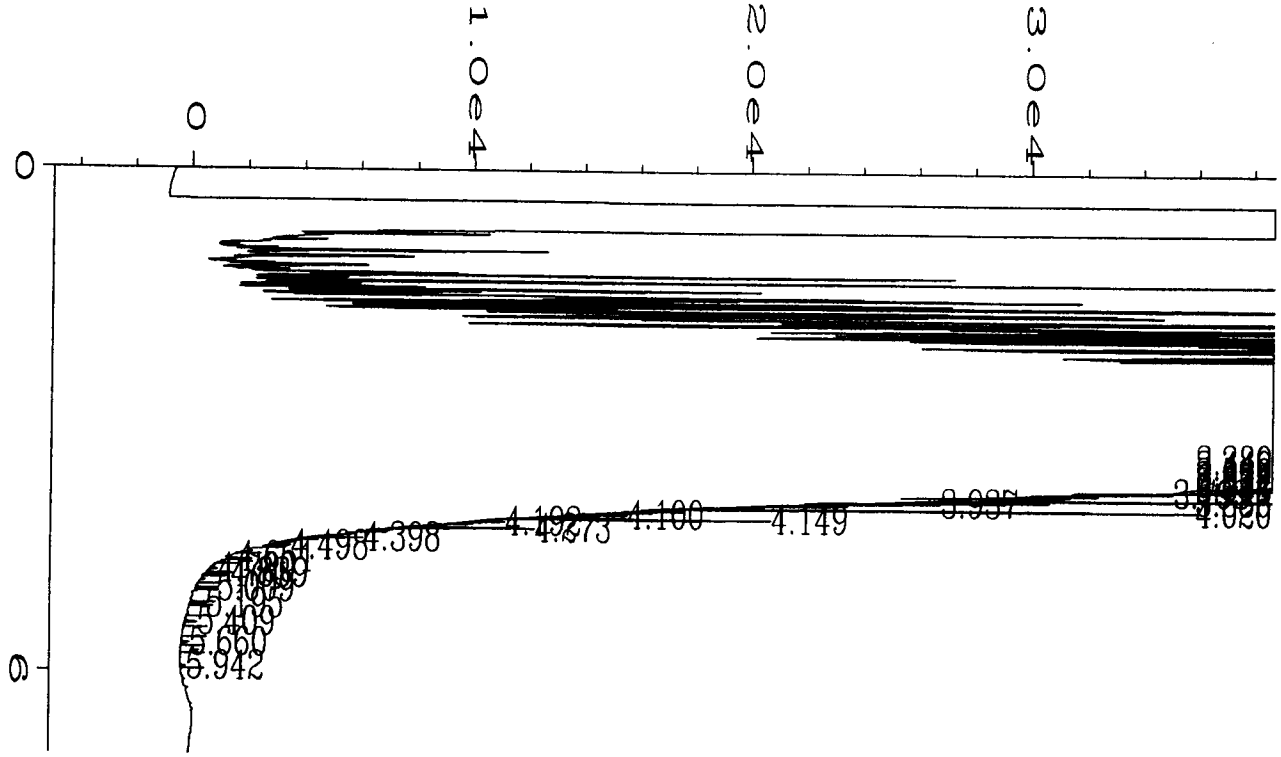
Data File Name : C:\HPCHEM\6\DATA\12-31-14\019F0601.D
Operator : mwdl
Instrument : GC #6
Sample Name : 1000 dx2' 43-120
Run Time Bar Code:
Acquired on : 31 Dec 14 02:59 PM
Report Created on: 02 Jan 15 10:09 AM

Page Number : 1
Vial Number : 19
Injection Number : 1
Sequence Line : 6
Instrument Method: DX1.MTH
Analysis Method : DX1.MTH

Sig. 1 in C:\HPCHEM\6\DATA\12-31-14\019F0601.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.458	1.33556E+009	1.0329E+008	BVA	0.216	99.1847
2	1.252	271091	40456	VVA	0.112	0.0201
3	2.302	6230004	351370	VV +	0.000	0.4627
4	3.612	4312172	288842	VVA	0.249	0.3202
5	5.112	156675	12590	VV +	0.000	0.0116
6	6.492	8286	303	PB +	0.000	0.0006

Total area = 1.34654E+009



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Area Percent Report

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Data File Name : C:\HPCHEM\6\DATA\12-31-14\019R0601.D
Operator : mwdl
Instrument : GC #6
Sample Name : 1000 dx2' 43-120
Run Time Bar Code:
Acquired on : 31 Dec 14 02:59 PM
Report Created on: 02 Jan 15 10:09 AM

Page Number : 1
Vial Number : 19
Injection Number : 1
Sequence Line : 6
Instrument Method: DX1.MTH
Analysis Method : istnddx.MTH

Sig. 2 in C:\HPCHEM\6\DATA\12-31-14\019R0601.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	3.389	20683	17867	BB	0.019	5.9278
2	3.449	93820	142432	BB	0.016	26.8883
3	3.539	43220	43727	BB	0.016	12.3866
4	3.574	19924	23061	BB	0.014	5.7100
5	3.622	45309	6241	BB	0.121	12.9854
6	3.657	5403	8569	BB	0.011	1.5484
7	3.714	21593	21804	BB	0.017	6.1886
8	3.746	42615	76512	BB	0.009	12.2132
9	3.793	2439	2716	BB	0.015	0.6991
10	3.886	16688	35914	BB	0.008	4.7828
11	3.937	6357	4000	BB	0.026	1.8218
12	4.020	11428	20170	BB	0.009	3.2751
13	4.100	4379	2083	BB	0.035	1.2551
14	4.149	5008	9842	BB	0.008	1.4353
15	4.192	1550	1352	BB	0.019	0.4442
16	4.273	3674	5072	BB	0.017	1.0528
17	4.398	1213	2033	BB	0.010	0.3475
18	4.498	747	837	BB	0.015	0.2141
19	4.651	119	344	BB	0.006	0.0340
20	4.780	176	271	BB	0.014	0.0505

21	4.839	577	943	BB	0.014	0.1654
22	5.009	553	777	BB	0.012	0.1586
23	5.195	443	608	BB	0.012	0.1269
24	5.409	458	456	BB	0.022	0.1313
25	5.660	322	289	BB	0.022	0.0923
26	5.942	227	201	BB	0.018	0.0650

Total area = 348925

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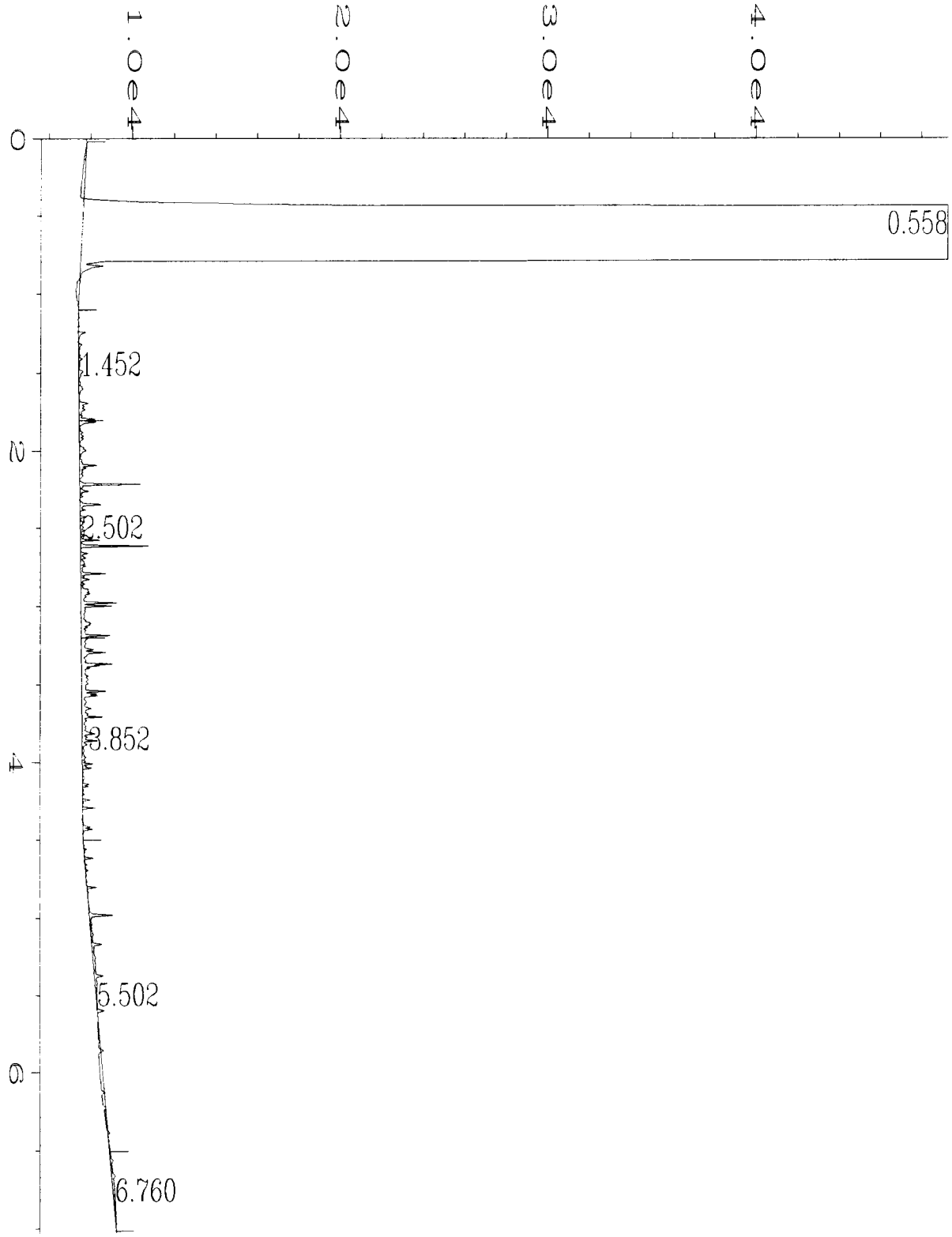
Last modified 1/2/15 mwdl			TPHDSL.XLS			
Data File Name	: C:\HPCHEM\6\DATA\12-31-14\019F0601.D					
Operator	: mwdl			Page Number	: 1	
Instrument	: GC #6			Vial Number	: 19	
Sample Name	: 1000 dx2' 43-120			Injection Number	: 1	
Run Time Bar Code:				Sequence Line	: 6	
Acquired on	42004	0.6243056				
Report Created on: 02 Jan 15 10:09 AM				Analysis Method	: DX1.MTH	
Surr / IS	**Ret Time window**		**Area**	**Avg. Area**		
Triacontane						Calibrated
0	>5.50	<5.55	0	1.00E+05		2/1/11
Pentacosane						
3	>4.22	<4.31	3674	1.09E+05		12/31/14
o-Terphenyl						
35	>3.46	<3.54	43220	1.24E+05		12/31/14
Results			Area	Resp. factor		Calibrated
Diesel, start C10 - start C25						
1059	>1.6	<4.22	1.05E+07	9.92E+03		12/31/14
NWTPH-DX, start C10 - end C36						
1048	>1.6	<6.0	10651957	1.02E+04		12/31/14
Motor Oil, start C25 - end C36						
24	>4.22	<6.0	153001	6.49E+03		12/31/14
Heavy Oil, start C17 - end C36						
506	>3.0	<6.0	4421953	8.73E+03		12/31/14
C12-C24						
-4	>5.7	<10.45	-34934	9.42E+03		9/25/06
Stoddard, start C8 - end C11						
934	>0.9	<3.0	6501095	6.96E+03		1/8/13
Kerosene, start C8 - end C20						
1621	>0.9	<4.22	10770047	6.65E+03		1/10/13
C24-C38						
0	>10.45	<19.8	-3674	9.42E+03		1/27/11

GC - 1										
Seq. Date	1/14/15				ICDSL.XLS					
Sample ID	5ppm dx	10ppm	50ppm	100ppm	500ppm	1000ppm	5000ppm	10000 dx 44-94		
Conc.	5	10	50	100	500	1000	5000	10000		
Triacostane	0	0	274	0	0	0	0.00E+00	0		
Pentacosane	0	0	152	451	2111	4302	2.12E+04	40593		
Terphenyl	0	0	525	1183	4119	12184	6.87E+04	8.07E+05		
Diesel C10-24	33918	69412	375519	734834	4083415	8206454	4.12E+07	8.06E+07		
D-Ex C10-C36	36147	69410	378697	734382	4081303	8253888	4.16E+07	8.15E+07		
Motor Oil	2229	-2	3178	-452	-2112	47434	4.24E+05	9.05E+05		
Heavy Oil	17478	34092	192474	367361	2090699	4258608	2.20E+07	43646527		
Jet A	33919	69413	375519	734834	4083415	8206454	4.12E+07	8.06E+07		
Stoddard	22263	40138	203464	401374	2190166	4406748	2.18E+07	4.21E+07		
Kerosene	37513	74233	392760	769187	4282977	8617922	4.33E+07	84806014		
Bunker C	36150	69413	378971	734383	4081304	8253889	4.16E+07	81525128		
R.F.									Average	$RSD
Triacostane	0	0	5	0	0	0	0	0	6.85E-01	283%
Pentacosane	0	0	3	5	4	4	4	4	3.05E+00	63%
Terphenyl	0	0	11	12	8	12	14	81	1.72E+01	153%
Diesel C10-24	6784	6941	7510	7348	8167	8206	8243	8062	7.66E+03	8%
D-Ex C10-C36	7229	6941	7574	7344	8163	8254	8327	8153	7.75E+03	7%
Motor Oil	446	0	64	-5	-4	47	85	90	9.04E+01	165%
Heavy Oil	3496	3409	3849	3674	4181	4259	4392	4365	3.95E+03	10%
Jet A	6784	6941	7510	7348	8167	8206	8243	8062	7.66E+03	8%
Stoddard	4453	4014	4069	4014	4380	4407	4360	4206	4.24E+03	4%
Kerosene	7503	7423	7855	7692	8566	8618	8667	8481	8.10E+03	7%
Bunker C	7230	6941	7579	7344	8163	8254	8327	8153	7.75E+03	7%
Analyte	5	10	50	100	500	1000	5000	10000		
Triacostane	0	0	400	0	0	0	0	0		
Pentacosane	0	0	50	148	693	1412	6960	13323		
Terphenyl	0	0	31	69	240	710	4006	47064		
Diesel C10-24	11	9	2	4	-7	-7	-8	-5		
D-Ex C10-C36	7	10	2	5	-5	-7	-7	-5		
Motor Oil	-393	100	30	105	105	48	6	0		
Heavy Oil	12	14	3	7	-6	-8	-11	-10		
Jet A	11	9	2	4	-7	-7	-8	-5		
Stoddard	-5	5	4	5	-3	-4	-3	1		
Kerosene	7	8	3	5	-6	-6	-7	-5		
Bunker C	7	10	2	5	-5	-7	-7	-5		
Calculated by:	M	1/15/15		Reviewed by						
	Initials	Date/Time				Initials	Date/Time			
Update circled values				Excel TPHD sheet Updated			✓ M			
	Initials	Date/Time								



Data File Name	: C:\HPCHEM\1\DATA\01-14-15\021F0701.D		
Operator	: mwdl	Page Number	: 1
Instrument	: GC1	Vial Number	: 21
Sample Name	: 5ppm dx 44-94	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 7
Acquired on	: 14 Jan 15 04:49 PM	Instrument Method:	DX1.MTH
Report Created on:	15 Jan 15 10:17 AM	Analysis Method	: DX1.MTH

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Area Percent Report

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Data File Name : C:\HPCHEM\1\DATA\01-14-15\021F0701.D
Operator : mwdl
Instrument : GC1
Sample Name : 5ppm dx 44-94
Run Time Bar Code:
Acquired on : 14 Jan 15 04:49 PM
Report Created on: 15 Jan 15 10:17 AM

Page Number : 1
Vial Number : 21
Injection Number : 1
Sequence Line : 7
Instrument Method: DX1.MTH
Analysis Method : DX1.MTH

Sig. 1 in C:\HPCHEM\1\DATA\01-14-15\021F0701.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.558	1.10198E+009	8.10908E+007	BB +	0.000	99.9962
2	1.452	3594	836	BVA	0.072	0.0003
3	2.502	18669	3313	VV +	0.000	0.0017
4	3.852	15250	1459	VV +	0.000	0.0014
5	5.502	2231	807	PV +	0.000	0.0002
6	6.760	2195	179	VB +	0.000	0.0002

Total area = 1.10202E+009

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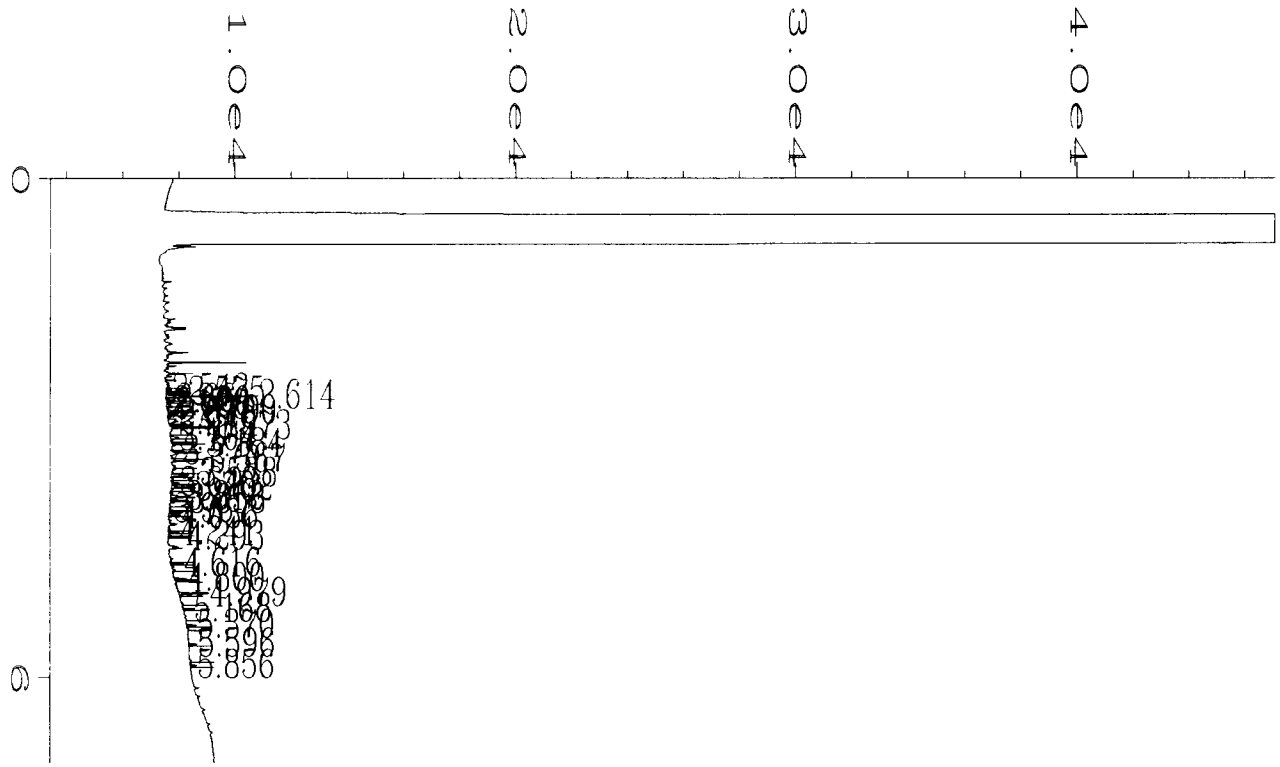

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Area Percent Report

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Data File Name : C:\HPCHEM\1\DATA\01-14-15\021R0701.D
Operator : mwdl
Instrument : GC1
Sample Name : 5ppm dx 44-94
Run Time Bar Code:
Acquired on : 14 Jan 15 04:49 PM
Report Created on: 15 Jan 15 10:17 AM

Page Number : 1
Vial Number : 21
Injection Number : 1
Sequence Line : 7
Instrument Method: DX1.MTH
Analysis Method : istnddx.MTH

Sig. 2 in C:\HPCHEM\1\DATA\01-14-15\021R0701.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	2.543	107	218	BB	0.008	0.7807
2	2.575	499	1003	BB	0.008	3.6450
3	2.614	1803	3470	BB	0.009	13.1610
4	2.661	179	340	BB	0.009	1.3085
5	2.690	139	230	BB	0.010	1.0144
6	2.728	215	163	BB	0.022	1.5680
7	2.790	676	1146	BB	0.010	4.9347
8	2.828	226	385	BB	0.010	1.6511
9	2.919	790	374	BB	0.035	5.7675
10	2.973	760	1616	BB	0.008	5.5483
11	3.104	466	307	BB	0.025	3.4042
12	3.184	540	1269	BB	0.007	3.9457
13	3.275	256	426	BB	0.010	1.8692
14	3.367	405	1247	BB	0.010	2.9575
15	3.538	1238	1102	BB	0.019	9.0368
16	3.648	190	291	BB	0.011	1.3901
17	3.702	518	928	BB	0.009	3.7832
18	3.812	554	561	BB	0.016	4.0424
19	3.858	444	703	BB	0.011	3.2402
20	3.967	140	138	BB	0.018	1.0218

21	4.036	623	463	BB	0.022	4.5520
22	4.241	200	398	BB	0.008	1.4621
23	4.293	365	667	BB	0.009	2.6622
24	4.616	261	486	BB	0.009	1.9060
25	4.800	262	480	BB	0.009	1.9147
26	4.979	759	1123	BB	0.015	5.5388
27	5.168	273	436	BB	0.010	1.9913
28	5.370	291	381	BB	0.013	2.1279
29	5.596	259	328	BB	0.013	1.8901
30	5.856	258	244	BB	0.018	1.8847

Total area = 13696

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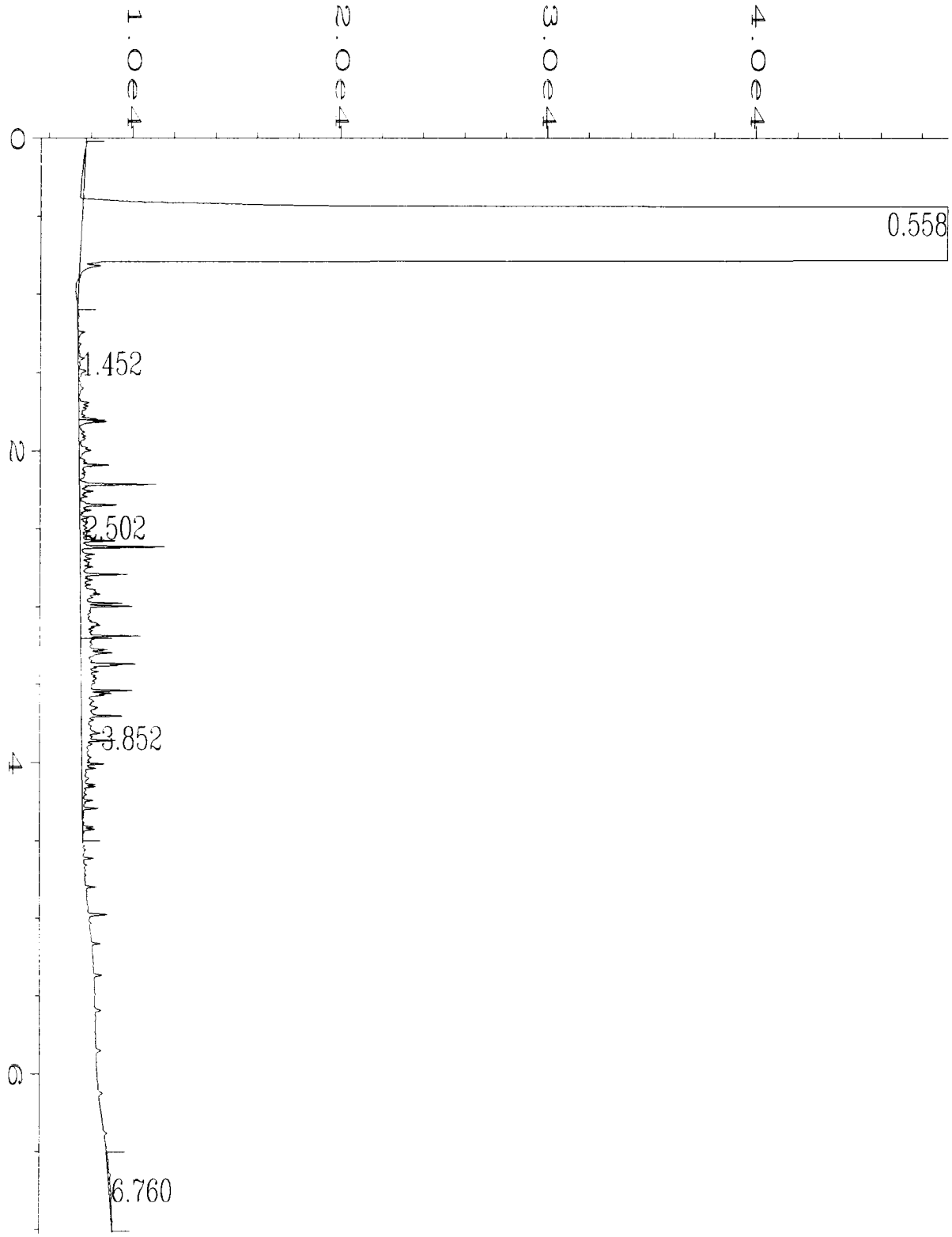
Last modified 1/15/15 mwdl			TPHDSL.XLS			
Data File Name	: C:\HPCHEM\1\DATA\01-14-15\021F0701.D					
Operator	: mwdl			Page Number	: 1	
Instrument	: GC1			Vial Number	: 21	
Sample Name	: 5ppm dx 44-94			Injection Number	: 1	
Run Time Bar Code:				Sequence Line	: 7	
Acquired on	1/14/15	16:49		Instrume	DX1.MTH	
Report Created on: 15 Jan 15 10:17 AM				Analysis Method	: DX1.MTH	
Surr / IS	**Ret Time window**		**Area**	**Avg. Area**		
Triacontane						Calibrated
0	>5.51	<5.57	0	8.24E+04		9/25/13
Pentacosane						
0	>4.53	<4.60	0	9.11E+04		1/14/15
o-Terphenyl						
0	>3.73	<3.79	0	1.00E+05		1/14/15
Results			Area	Resp. factor		Calibrated
Diesel, start C10 - start C25						
4	>1.8	<4.5	3.39E+04	7.66E+03		1/14/15
NWTPH-DX, start C10 - end C36						
5	>1.8	<6.5	36147	7.75E+03		1/14/15
Motor Oil, start C25 - end C36						
0	>4.5	<6.5	2229	5.16E+03		1/14/15
Heavy Oil, start C17- end C36						
3	>3.2	<6.5	17478	6.80E+03		1/14/15
C12-C24						
5	>1.8	<4.5	33919	6.37E+03		6/22/11
Stoddard, start C8 - end C11						
4	>1.1	<3.2	22263	6.07E+03		6/25/12
Kerosene C8-C20						
6	>1.1	<4.5	37513	6.28E+03		7/5/12
Bunker C						
8	>1.8	<6.5	36150	4.27E+03		9/19/11
Calibration Info:						
Stoddard (8-11)	4					
TPHD (8-36)	2					
TPHDX (8-36)	2					
Motor Oil (8-36	3					



Data File Name	: C:\HPCHEM\1\DATA\01-14-15\022F0701.D		
Operator	: mwdl	Page Number	: 1
Instrument	: GC1	Vial Number	: 22
Sample Name	: 10ppm dx 44-94	Injection Number	: 1
Run Time Bar Code	:	Sequence Line	: 7
Acquired on	: 14 Jan 15 04:59 PM	Instrument Method	: DX1.MTH
Report Created on	: 15 Jan 15 10:17 AM	Analysis Method	: DX1.MTH

Area Percent Report

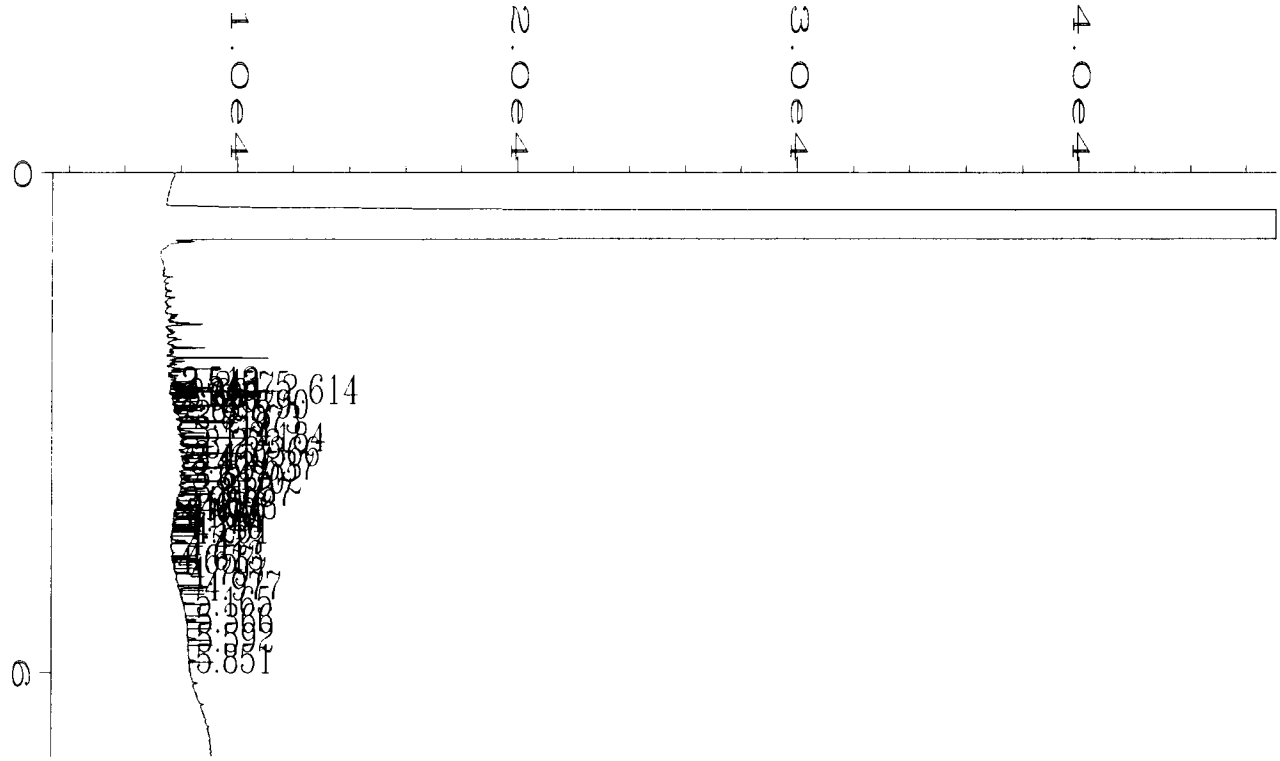
Data File Name : C:\HPCHEM\1\DATA\01-14-15\022F0701.D
Operator : mwdl
Instrument : GC1
Sample Name : 10ppm dx 44-94
Run Time Bar Code:
Acquired on : 14 Jan 15 04:59 PM
Report Created on: 15 Jan 15 10:17 AM

Page Number : 1
Vial Number : 22
Injection Number : 1
Sequence Line : 7
Instrument Method: DX1.MTH
Analysis Method : DX1.MTH

Sig. 1 in C:\HPCHEM\1\DATA\01-14-15\022F0701.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.558	1.07766E+009	8.11611E+007	BV +	0.000	99.9929
2	1.452	4820	892	PV +	0.000	0.0004
3	2.502	35318	4086	VV +	0.000	0.0033
4	3.852	34095	2598	VV +	0.000	0.0032
5	6.760	1908	160	VB +	0.000	0.0002

Total area = 1.07774E+009



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Area Percent Report

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Data File Name : C:\HPCHEM\1\DATA\01-14-15\022R0701.D
Operator : mwdl
Page Number : 1
Instrument : GC1
Vial Number : 22
Sample Name : 10ppm dx 44-94
Injection Number : 1
Run Time Bar Code:
Sequence Line : 7
Acquired on : 14 Jan 15 04:59 PM
Instrument Method: DX1.MTH
Report Created on: 15 Jan 15 10:17 AM
Analysis Method : istnddx.MTH

Sig. 2 in C:\HPCHEM\1\DATA\01-14-15\022R0701.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	2.513	136	341	BBAS	0.007	0.7063
2	2.543	188	418	BB	0.008	0.9797
3	2.575	883	1679	BB	0.009	4.5957
4	2.614	2150	4115	BB	0.009	11.1859
5	2.661	324	567	BB	0.010	1.6860
6	2.690	218	368	BB	0.010	1.1331
7	2.715	311	235	BB	0.022	1.6182
8	2.790	1115	2096	BB	0.009	5.8004
9	2.827	214	336	BB	0.011	1.1125
10	2.918	834	554	BB	0.025	4.3418
11	2.973	629	1640	BB	0.006	3.2726
12	3.114	670	531	BB	0.021	3.4859
13	3.184	1029	2471	BB	0.007	5.3546
14	3.273	446	817	BB	0.009	2.3195
15	3.366	867	2098	BB	0.011	4.5102
16	3.417	112	375	BB	0.005	0.5814
17	3.460	385	237	BB	0.023	2.0051
18	3.537	848	2035	BB	0.007	4.4113
19	3.647	398	398	BB	0.016	2.0702
20	3.702	916	1716	BB	0.009	4.7682

21	3.812	433	549	BB	0.013	2.2527
22	3.857	737	1348	BB	0.009	3.8367
23	3.967	208	207	BB	0.017	1.0836
24	4.008	450	879	BB	0.009	2.3422
25	4.036	241	481	BB	0.008	1.2525
26	4.100	172	194	BB	0.016	0.8950
27	4.151	521	547	BB	0.016	2.7099
28	4.240	219	468	BB	0.008	1.1394
29	4.291	394	749	BB	0.009	2.0495
30	4.427	702	577	BB	0.020	3.6532
31	4.613	273	515	BB	0.009	1.4215
32	4.657	114	176	BB	0.013	0.5915
33	4.797	297	518	BB	0.010	1.5479
34	4.977	712	927	BB	0.016	3.7070
35	5.165	315	431	BB	0.012	1.6415
36	5.366	309	385	BB	0.013	1.6061
37	5.592	301	304	BB	0.017	1.5652
38	5.851	147	230	BB	0.012	0.7659

Total area = 19217

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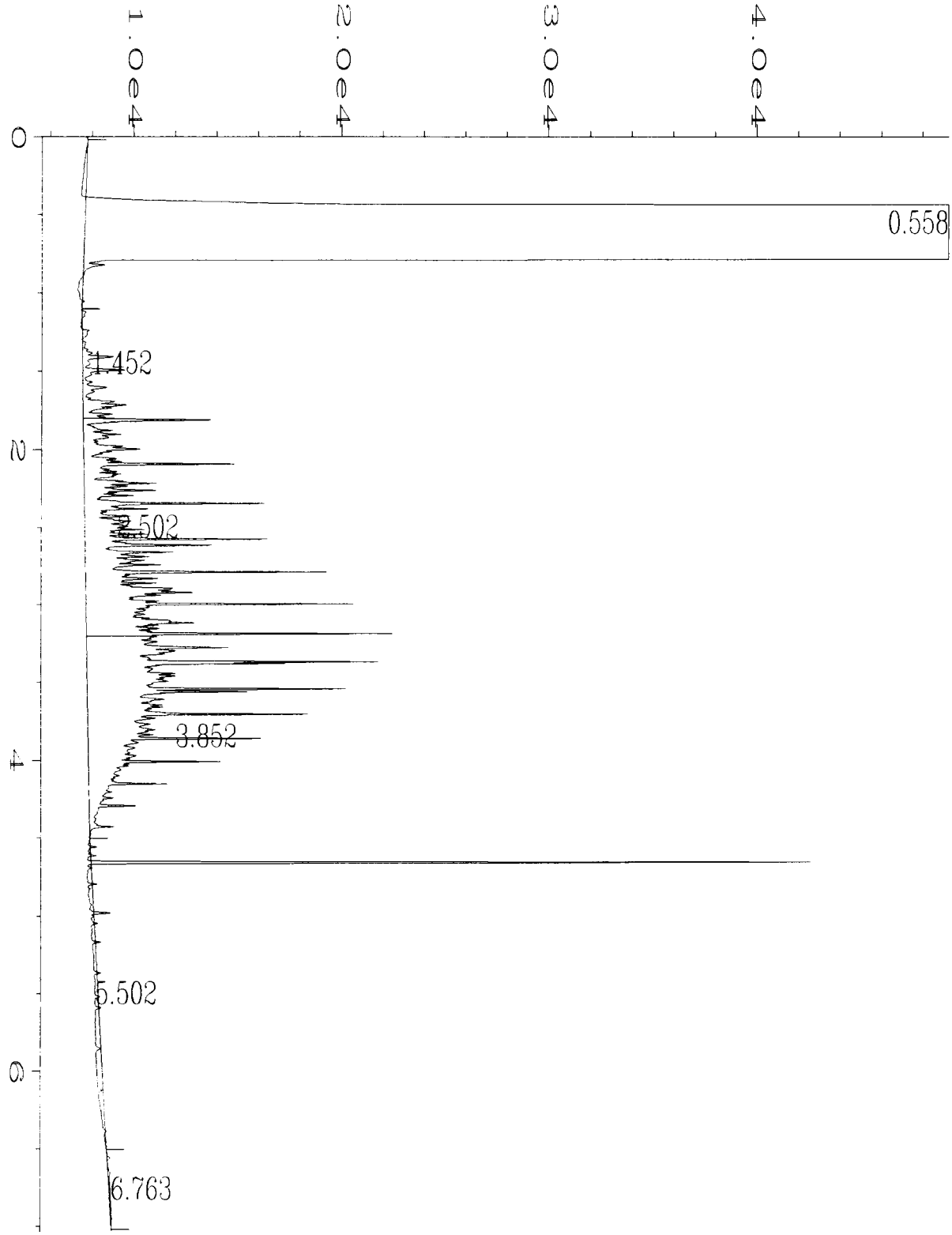
Last modified 1/15/15 mwdl			TPHDSL.XLS			
Data File Name	: C:\HPCHEM\1\DATA\01-14-15\022F0701.D					
Operator	: mwdl			Page Number	: 1	
Instrument	: GC1			Vial Number	: 22	
Sample Name	: 10ppm dx 44-94			Injection Number	: 1	
Run Time Bar Code:				Sequence Line	: 7	
Acquired on	1/14/15	16:59		Instrume	DX1.MTH	
Report Created on: 15 Jan 15 10:17 AM				Analysis Method	: DX1.MTH	
Surr / IS	**Ret Time window**		**Area**	**Avg. Area**		
Triacontane						Calibrated
0	>5.51	<5.57	0	8.24E+04		9/25/13
Pentacosane						
0	>4.53	<4.60	0	9.11E+04		1/14/15
o-Terphenyl						
0	>3.73	<3.79	0	1.00E+05		1/14/15
Results			Area	Resp. factor		Calibrated
Diesel, start C10 - start C25						
9	>1.8	<4.5	6.94E+04	7.66E+03		1/14/15
NWTPH-DX, start C10 - end C36						
9	>1.8	<6.5	69410	7.75E+03		1/14/15
Motor Oil, start C25 - end C36						
0	>4.5	<6.5	-2	5.16E+03		1/14/15
Heavy Oil, start C17- end C36						
5	>3.2	<6.5	34092	6.80E+03		1/14/15
C12-C24						
11	>1.8	<4.5	69413	6.37E+03		6/22/11
Stoddard, start C8 - end C11						
7	>1.1	<3.2	40138	6.07E+03		6/25/12
Kerosene C8-C20						
12	>1.1	<4.5	74233	6.28E+03		7/5/12
Bunker C						
16	>1.8	<6.5	69413	4.27E+03		9/19/11
Calibration Info:						
Stoddard (8-11)	7					
TPHD (8-36)	4					
TPHDX (8-36)	4					
Motor Oil (8-36	7					



Data File Name	: C:\HPCHEM\1\DATA\01-14-15\023F0701.D		
Operator	: mwdl	Page Number	: 1
Instrument	: GC1	Vial Number	: 23
Sample Name	: 50ppm dx 44-94	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 7
Acquired on	: 14 Jan 15 05:10 PM	Instrument Method:	DX1.MTH
Report Created on:	15 Jan 15 10:17 AM	Analysis Method	: DX1.MTH

Area Percent Report

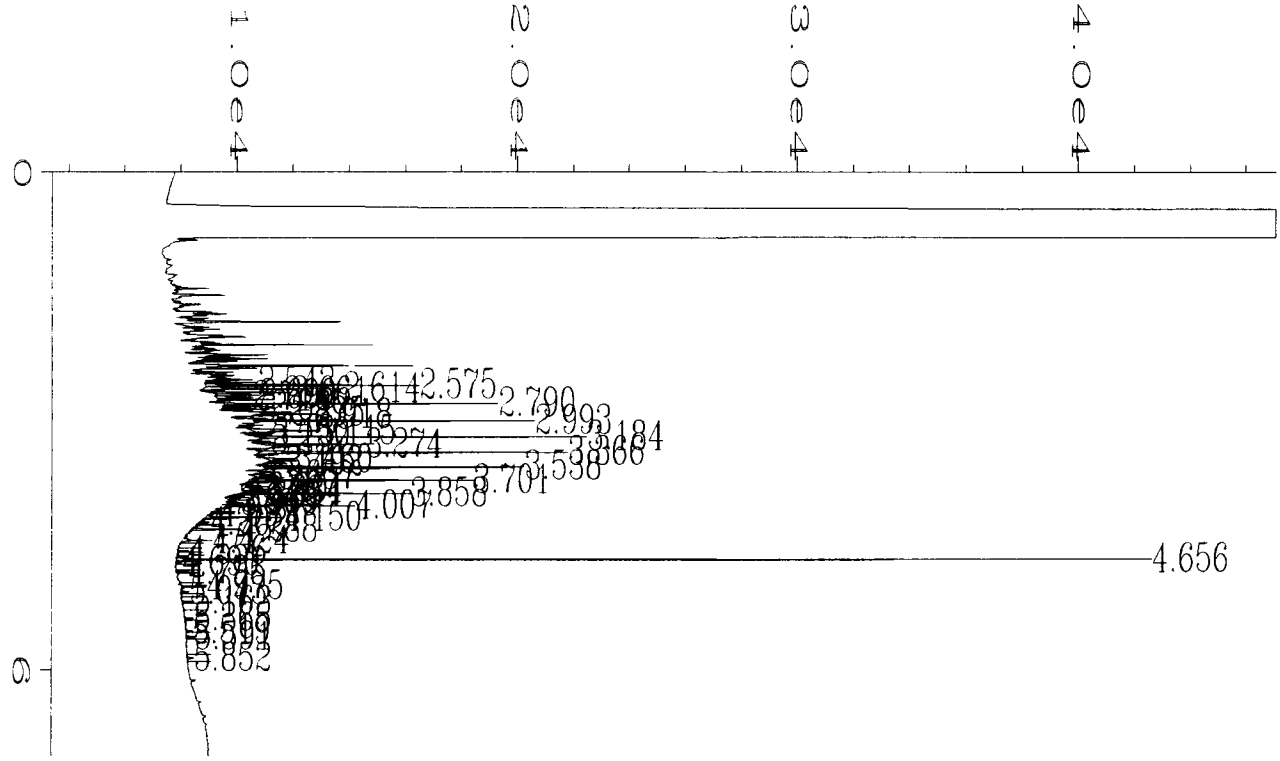
Data File Name : C:\HPCHEM\1\DATA\01-14-15\023F0701.D
Operator : mwdl
Instrument : GC1
Sample Name : 50ppm dx 44-94
Run Time Bar Code:
Acquired on : 14 Jan 15 05:10 PM
Report Created on: 15 Jan 15 10:17 AM

Page Number : 1
Vial Number : 23
Injection Number : 1
Sequence Line : 7
Instrument Method: DX1.MTH
Analysis Method : DX1.MTH

Sig. 1 in C:\HPCHEM\1\DATA\01-14-15\023F0701.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.558	1.08904E+009	8.08045E+007	BB +	0.000	99.9634
2	1.452	17241	2121	BV +	0.000	0.0016
3	2.502	186223	14826	VV +	0.000	0.0171
4	3.852	189821	13970	VV +	0.000	0.0174
5	5.502	3604	34305	PV +	0.000	0.0003
6	6.763	1545	147	PB +	0.000	0.0001

Total area = 1.08944E+009



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Area Percent Report

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Data File Name : C:\HPCHEM\1\DATA\01-14-15\023R0701.D
Operator : mwdl
Instrument : GC1
Sample Name : 50ppm dx 44-94
Run Time Bar Code:
Acquired on : 14 Jan 15 05:10 PM
Report Created on: 15 Jan 15 10:17 AM

Page Number : 1
Vial Number : 23
Injection Number : 1
Sequence Line : 7
Instrument Method: DX1.MTH
Analysis Method : istnddx.MTH

Sig. 2 in C:\HPCHEM\1\DATA\01-14-15\023R0701.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	2.543	1457	1965	BBAS	0.012	1.6275
2	2.575	4399	8244	BB	0.009	4.9153
3	2.614	3856	5259	BB	0.016	4.3079
4	2.661	1731	2959	BB	0.010	1.9337
5	2.690	929	1596	BB	0.010	1.0375
6	2.714	1237	1345	BB	0.015	1.3818
7	2.790	5238	10116	BB	0.009	5.8518
8	2.827	1004	1673	BB	0.010	1.1221
9	2.895	445	891	BB	0.010	0.4971
10	2.918	1256	2221	BB	0.009	1.4038
11	2.993	4054	10580	BB	0.006	4.5295
12	3.115	2684	2519	BB	0.018	2.9992
13	3.150	483	885	BB	0.009	0.5394
14	3.184	5344	12326	BB	0.007	5.9711
15	3.237	394	582	BB	0.011	0.4401
16	3.274	2297	3890	BB	0.010	2.5659
17	3.366	8010	11336	BB	0.014	8.9492
18	3.460	1123	924	BB	0.020	1.2542
19	3.492	511	765	BB	0.011	0.5713
20	3.538	4355	10053	BB	0.007	4.8661

21	3.657	866	802	BB	0.018	0.9679
22	3.701	4381	8628	BB	0.008	4.8946
23	3.767	525	537	BB	0.016	0.5867
24	3.801	398	634	BB	0.010	0.4442
25	3.834	258	636	BB	0.007	0.2886
26	3.858	2965	6576	BB	0.008	3.3127
27	3.885	531	546	BB	0.016	0.5928
28	3.919	485	465	BB	0.017	0.5414
29	3.969	438	425	BB	0.017	0.4893
30	4.007	1907	4680	BB	0.007	2.1304
31	4.097	174	319	BB	0.009	0.1945
32	4.150	1518	2927	BB	0.009	1.6963
33	4.202	364	391	BB	0.016	0.4072
34	4.288	1052	1891	BB	0.009	1.1758
35	4.424	955	1090	BB	0.018	1.0669
36	4.556	152	395	BB	0.006	0.1701
37	4.656	19110	36778	BB	0.009	21.3508
38	4.690	136	228	BB	0.010	0.1523
39	4.795	285	489	BB	0.010	0.3186
40	4.975	629	975	BB	0.011	0.7031
41	5.043	299	316	BB	0.016	0.3343
42	5.163	224	418	BB	0.009	0.2507
43	5.365	265	344	BB	0.012	0.2962
44	5.519	274	241	BB	0.019	0.3060
45	5.591	236	300	BB	0.013	0.2639
46	5.852	269	245	BB	0.021	0.3003

Total area = 89503

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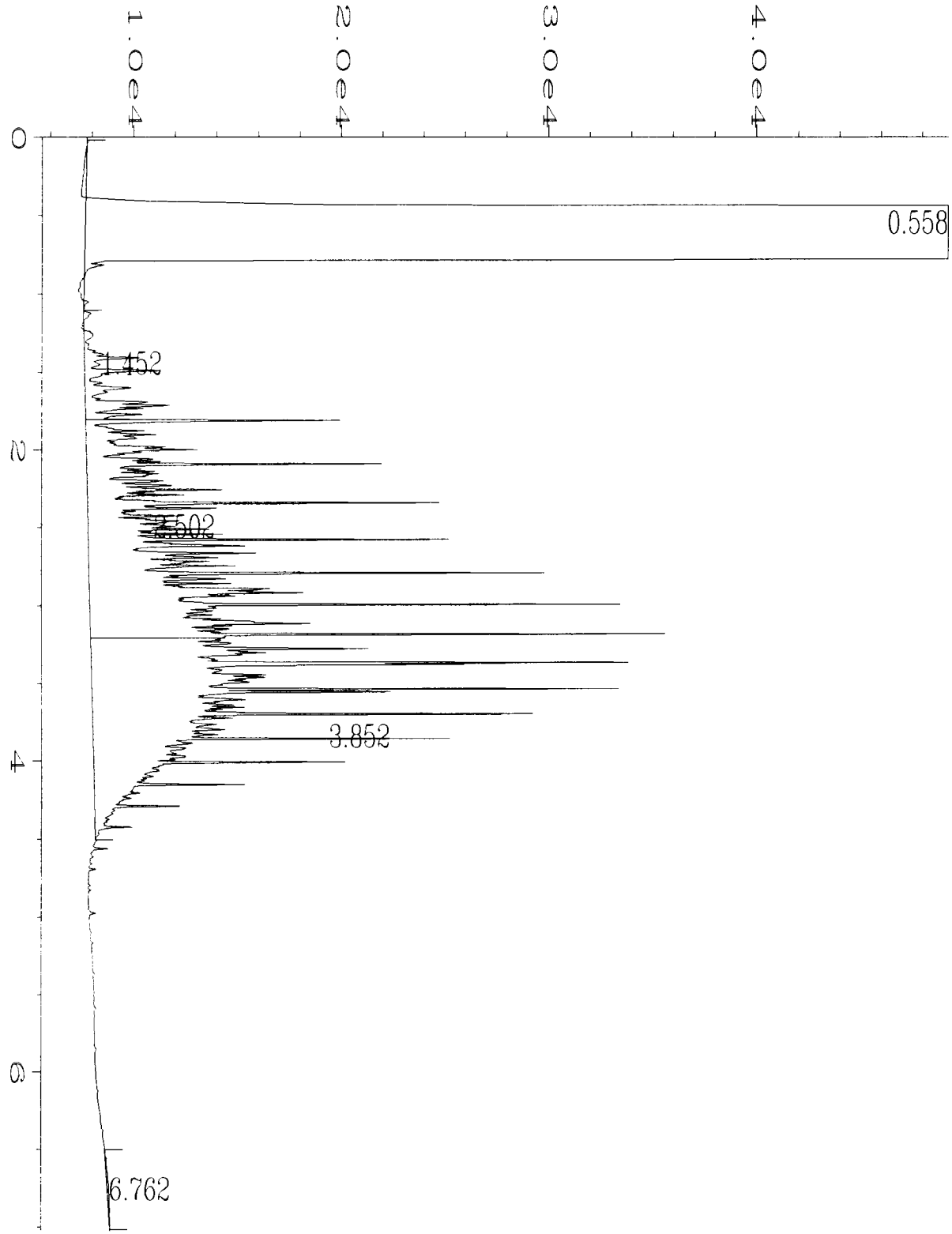
Last modified 1/15/15 mwdl			TPHDSL.XLS			
Data File Name	: C:\HPCHEM\1\DATA\01-14-15\023F0701.D					
Operator	: mwdl			Page Number	: 1	
Instrument	: GC1			Vial Number	: 23	
Sample Name	: 50ppm dx 44-94			Injection Number	: 1	
Run Time Bar Code:				Sequence Line	: 7	
Acquired on	1/14/15	17:10		Instrume	DX1.MTH	
Report Created on: 15 Jan 15 10:17 AM				Analysis Method	: DX1.MTH	
Surr / IS	**Ret Time window**		**Area**	**Avg. Area**		
Triacontane						Calibrated
0	>5.51	<5.57	274	8.24E+04		9/25/13
Pentacosane						
0	>4.53	<4.60	152	9.11E+04		1/14/15
o-Terphenyl						
1	>3.73	<3.79	525	1.00E+05		1/14/15
Results			Area	Resp. factor		Calibrated
Diesel, start C10 - start C25						
49	>1.8	<4.5	3.76E+05	7.66E+03		1/14/15
NWTPH-DX, start C10 - end C36						
49	>1.8	<6.5	378697	7.75E+03		1/14/15
Motor Oil, start C25 - end C36						
1	>4.5	<6.5	3178	5.16E+03		1/14/15
Heavy Oil, start C17- end C36						
28	>3.2	<6.5	192474	6.80E+03		1/14/15
C12-C24						
59	>1.8	<4.5	375519	6.37E+03		6/22/11
Stoddard, start C8 - end C11						
33	>1.1	<3.2	203464	6.07E+03		6/25/12
Kerosene C8-C20						
63	>1.1	<4.5	392760	6.28E+03		7/5/12
Bunker C						
89	>1.8	<6.5	378971	4.27E+03		9/19/11
Calibration Info:						
Stoddard (8-11)	33					
TPHD (8-36)	25					
TPHDX (8-36)	25					
Motor Oil (8-36	37					



Data File Name	: C:\HPCHEM\1\DATA\01-14-15\024F0701.D		
Operator	: mwdl	Page Number	: 1
Instrument	: GC1	Vial Number	: 24
Sample Name	: 100ppm dx 44-94	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 7
Acquired on	: 14 Jan 15 05:21 PM	Instrument Method	: DX1.MTH
Report Created on:	15 Jan 15 10:17 AM	Analysis Method	: DX1.MTH

Area Percent Report

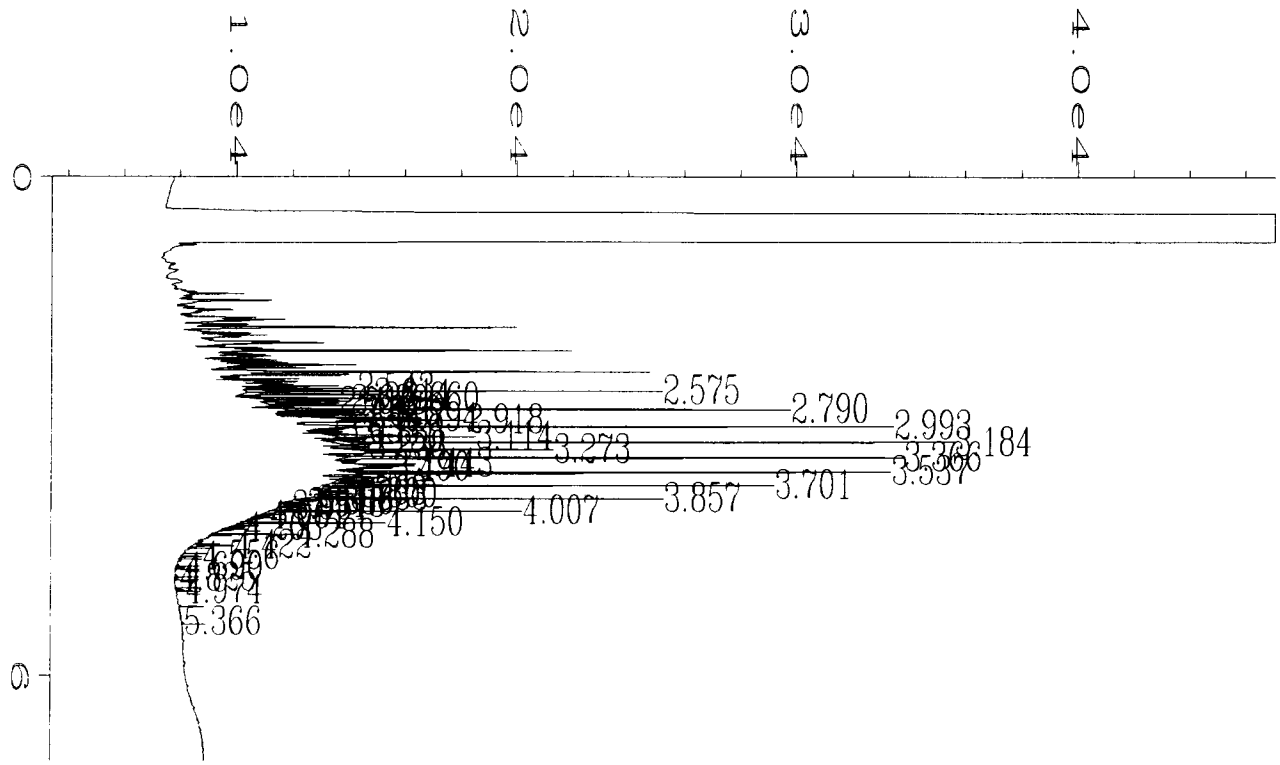
Data File Name : C:\HPCHEM\1\DATA\01-14-15\024F0701.D
Operator : mwdl
Instrument : GC1
Sample Name : 100ppm dx 44-94
Run Time Bar Code:
Acquired on : 14 Jan 15 05:21 PM
Report Created on: 15 Jan 15 10:17 AM

Page Number : 1
Vial Number : 24
Injection Number : 1
Sequence Line : 7
Instrument Method: DX1.MTH
Analysis Method : DX1.MTH

Sig. 1 in C:\HPCHEM\1\DATA\01-14-15\024F0701.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.558	1.06778E+009	8.03437E+007	BVA	0.222	99.9278
2	1.452	34353	4105	PVA	0.139	0.0032
3	2.502	367021	27824	VVA	0.220	0.0343
4	3.852	368996	25800	VV +	0.000	0.0345
5	6.762	1319	131	PB +	0.000	0.0001

Total area = 1.06855E+009



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Area Percent Report

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Data File Name : C:\HPCHEM\1\DATA\01-14-15\024R0701.D
Operator : mwdl
Instrument : GC1
Sample Name : 100ppm dx 44-94
Run Time Bar Code:
Acquired on : 14 Jan 15 05:21 PM
Report Created on: 15 Jan 15 10:17 AM

Page Number : 1
Vial Number : 24
Injection Number : 1
Sequence Line : 7
Instrument Method: DX1.MTH
Analysis Method : istnddx.MTH

Sig. 2 in C:\HPCHEM\1\DATA\01-14-15\024R0701.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	2.543	3001	4218	BBAS	0.012	2.2314
2	2.575	8479	15951	BB	0.009	6.3046
3	2.614	5021	5004	BB	0.017	3.7330
4	2.660	2899	5169	BB	0.009	2.1553
5	2.689	1833	3148	BB	0.010	1.3626
6	2.715	2591	2753	BB	0.016	1.9266
7	2.790	9847	18696	BB	0.009	7.3215
8	2.826	1543	2763	BB	0.009	1.1475
9	2.857	1346	3371	BB	0.007	1.0009
10	2.894	2081	2142	BB	0.016	1.5470
11	2.918	2602	4589	BB	0.009	1.9345
12	2.993	6363	20920	BB	0.005	4.7315
13	3.033	1085	916	BB	0.020	0.8070
14	3.114	5430	5301	BB	0.017	4.0377
15	3.150	901	1350	BB	0.011	0.6700
16	3.184	11432	23403	BB	0.008	8.5003
17	3.238	895	1195	BB	0.012	0.6657
18	3.273	4381	7435	BB	0.010	3.2577
19	3.366	15491	20990	BB	0.015	11.5183
20	3.443	2261	2065	BB	0.018	1.6814

21	3.490	1373	1262	BB	0.018	1.0212
22	3.537	8616	19926	BB	0.007	6.4061
23	3.701	10583	17025	BB	0.010	7.8690
24	3.768	1183	980	BB	0.020	0.8799
25	3.800	1043	1588	BB	0.011	0.7755
26	3.833	897	1316	BB	0.011	0.6668
27	3.857	5732	13396	BB	0.007	4.2620
28	3.886	937	1076	BB	0.015	0.6970
29	3.918	826	891	BB	0.015	0.6141
30	3.951	237	394	BB	0.010	0.1759
31	4.007	6027	9351	BB	0.011	4.4814
32	4.061	522	483	BB	0.018	0.3881
33	4.150	2718	5449	BB	0.012	2.0209
34	4.203	406	627	BB	0.011	0.3019
35	4.288	1838	3449	BB	0.009	1.3664
36	4.422	932	1569	BB	0.012	0.6931
37	4.556	451	798	BB	0.012	0.3356
38	4.690	206	359	BB	0.010	0.1534
39	4.825	119	160	BB	0.016	0.0883
40	4.974	248	338	BB	0.012	0.1841
41	5.366	114	84	BB	0.023	0.0848

Total area = 134491

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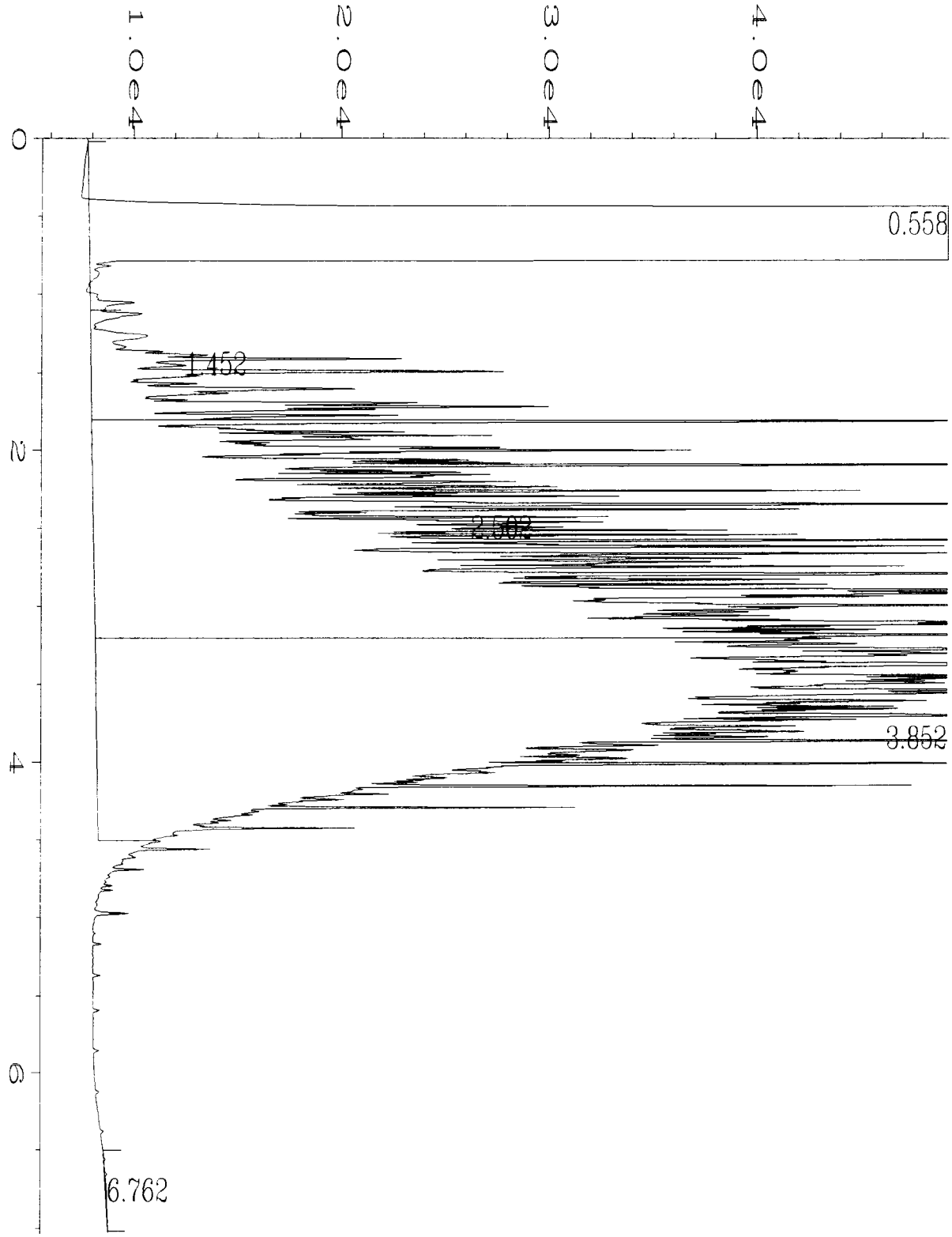
Last modified 1/15/15 mwdl			TPHDSL.XLS			
Data File Name	: C:\HPCHEM\1\DATA\01-14-15\024F0701.D					
Operator	: mwdl			Page Number	: 1	
Instrument	: GC1			Vial Number	: 24	
Sample Name	: 100ppm dx 44-94			Injection Number	: 1	
Run Time Bar Code:				Sequence Line	: 7	
Acquired on	1/14/15	17:21		Instrume	DX1.MTH	
Report Created on: 15 Jan 15 10:17 AM				Analysis Method	: DX1.MTH	
Surr / IS	**Ret Time window**		**Area**	**Avg. Area**		
Triacontane						Calibrated
0	>5.51	<5.57	0	8.24E+04		9/25/13
Pentacosane						
0	>4.53	<4.60	451	9.11E+04		1/14/15
o-Terphenyl						
1	>3.73	<3.79	1183	1.00E+05		1/14/15
Results			Area	Resp. factor		Calibrated
Diesel, start C10 - start C25						
96	>1.8	<4.5	7.35E+05	7.66E+03		1/14/15
NWTPH-DX, start C10 - end C36						
95	>1.8	<6.5	734382	7.75E+03		1/14/15
Motor Oil, start C25 - end C36						
0	>4.5	<6.5	-452	5.16E+03		1/14/15
Heavy Oil, start C17- end C36						
54	>3.2	<6.5	367361	6.80E+03		1/14/15
C12-C24						
115	>1.8	<4.5	734834	6.37E+03		6/22/11
Stoddard, start C8 - end C11						
66	>1.1	<3.2	401374	6.07E+03		6/25/12
Kerosene C8-C20						
123	>1.1	<4.5	769187	6.28E+03		7/5/12
Bunker C						
172	>1.8	<6.5	734383	4.27E+03		9/19/11
Calibration Info:						
Stoddard (8-11)	66					
TPHD (8-36)	48					
TPHDX (8-36)	47					
Motor Oil (8-36	71					



Data File Name	: C:\HPCHEM\1\DATA\01-14-15\025F0701.D		
Operator	: mwdl	Page Number	: 1
Instrument	: GC1	Vial Number	: 25
Sample Name	: 500ppm dx 44-94	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 7
Acquired on	: 14 Jan 15 05:31 PM	Instrument Method	: DX1.MTH
Report Created on:	15 Jan 15 10:18 AM	Analysis Method	: DX1.MTH

Area Percent Report

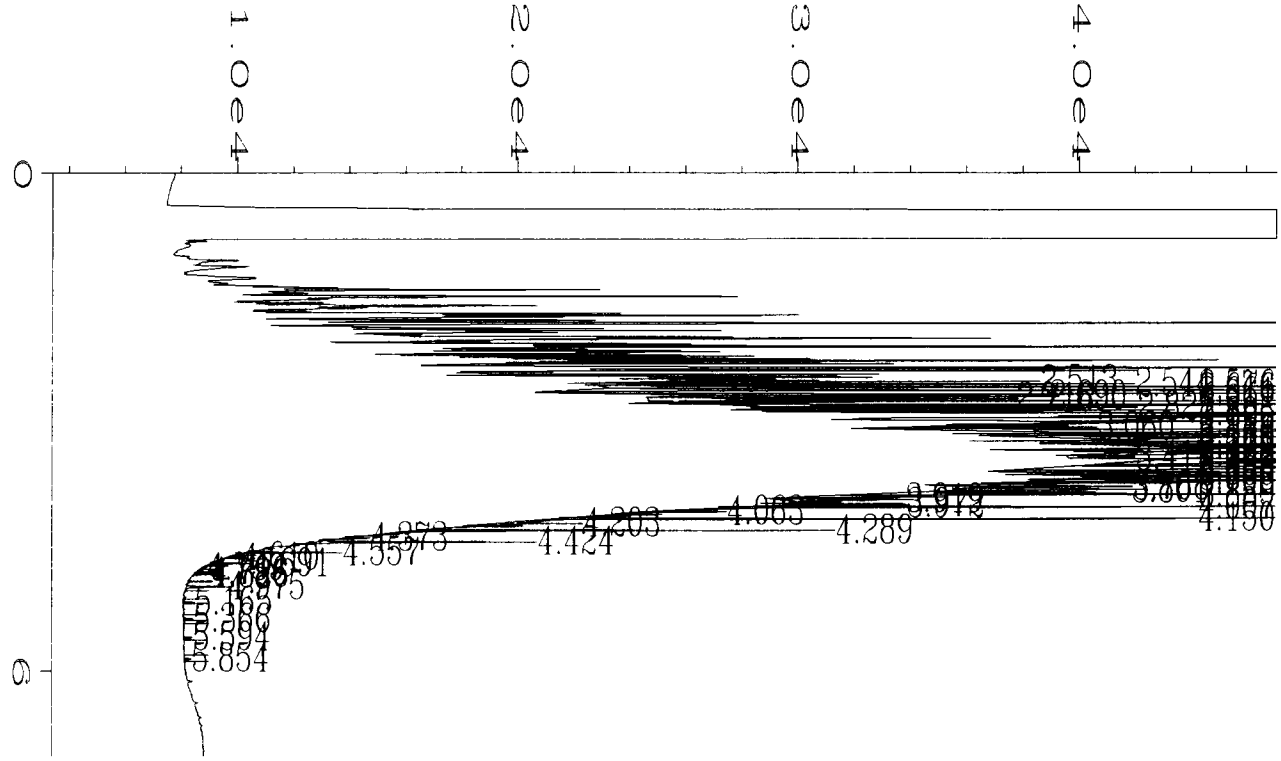
Data File Name : C:\HPCHEM\1\DATA\01-14-15\025F0701.D
Operator : mwdl
Instrument : GC1
Sample Name : 500ppm dx 44-94
Run Time Bar Code:
Acquired on : 14 Jan 15 05:31 PM
Report Created on: 15 Jan 15 10:18 AM

Page Number : 1
Vial Number : 25
Injection Number : 1
Sequence Line : 7
Instrument Method: DX1.MTH
Analysis Method : DX1.MTH

Sig. 1 in C:\HPCHEM\1\DATA\01-14-15\025F0701.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.558	1.10508E+009	8.14456E+007	BVA	0.226	99.6134
2	1.452	199562	22092	VVA	0.151	0.0180
3	2.502	1990604	144037	VV +	0.000	0.1794
4	3.852	2096930	143320	VV +	0.000	0.1890
5	6.762	1190	125	PB +	0.000	0.0001

Total area = 1.10937E+009



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Area Percent Report

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Data File Name : C:\HPCHEM\1\DATA\01-14-15\025R0701.D
Operator : mwdl
Instrument : GC1
Sample Name : 500ppm dx 44-94
Run Time Bar Code:
Acquired on : 14 Jan 15 05:31 PM
Report Created on: 15 Jan 15 10:18 AM

Page Number : 1
Vial Number : 25
Injection Number : 1
Sequence Line : 7
Instrument Method: DX1.MTH
Analysis Method : istnddx.MTH

Sig. 2 in C:\HPCHEM\1\DATA\01-14-15\025R0701.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	2.513	6354	15050	BBAS	0.007	0.9171
2	2.544	9455	20034	BB	0.008	1.3648
3	2.576	41288	90801	BB	0.008	5.9596
4	2.616	24747	28496	BB	0.014	3.5721
5	2.661	16314	27036	BB	0.010	2.3548
6	2.690	9872	13982	BB	0.012	1.4249
7	2.716	15550	13504	BB	0.020	2.2445
8	2.792	57160	86409	BB	0.011	8.2507
9	2.827	9206	13656	BB	0.011	1.3288
10	2.895	6671	12158	BB	0.010	0.9629
11	2.995	18216	98242	BB	0.003	2.6294
12	3.060	8432	7326	BB	0.019	1.2171
13	3.116	31497	29494	BB	0.018	4.5464
14	3.151	5248	8848	BB	0.010	0.7574
15	3.186	56501	122605	BB	0.008	8.1555
16	3.238	2538	5413	BB	0.008	0.3663
17	3.275	23380	37075	BB	0.011	3.3747
18	3.301	5258	8793	BB	0.010	0.7590
19	3.368	73338	114326	BB	0.011	10.5858
20	3.417	3072	2475	BB	0.021	0.4434

21	3.492	17775	8322	BB	0.036	2.5657
22	3.539	75700	102867	BB	0.019	10.9268
23	3.606	7400	9563	BB	0.013	1.0682
24	3.658	4008	6724	BB	0.010	0.5786
25	3.703	41485	86410	BB	0.008	5.9880
26	3.768	4119	5632	BB	0.012	0.5946
27	3.801	5222	6689	BB	0.013	0.7538
28	3.859	41625	65568	BB	0.011	6.0082
29	3.919	4451	4426	BB	0.017	0.6425
30	3.972	4104	4346	BB	0.016	0.5924
31	4.007	21686	45216	BB	0.008	3.1302
32	4.063	2720	3006	BB	0.015	0.3926
33	4.150	14630	27432	BB	0.009	2.1117
34	4.203	3530	3409	BB	0.017	0.5095
35	4.289	8208	16111	BB	0.008	1.1847
36	4.373	1001	797	BB	0.021	0.1445
37	4.424	4089	8167	BB	0.011	0.5902
38	4.557	2111	3641	BB	0.013	0.3047
39	4.610	448	522	BB	0.014	0.0647
40	4.691	1049	1546	BB	0.015	0.1515
41	4.739	149	196	BB	0.013	0.0215
42	4.796	409	539	BB	0.013	0.0591
43	4.826	412	663	BB	0.010	0.0595
44	4.975	1299	1701	BB	0.012	0.1875
45	5.165	291	430	BB	0.011	0.0421
46	5.366	285	368	BB	0.013	0.0411
47	5.594	248	314	BB	0.013	0.0357
48	5.854	245	260	BB	0.015	0.0353

Total area = 692798

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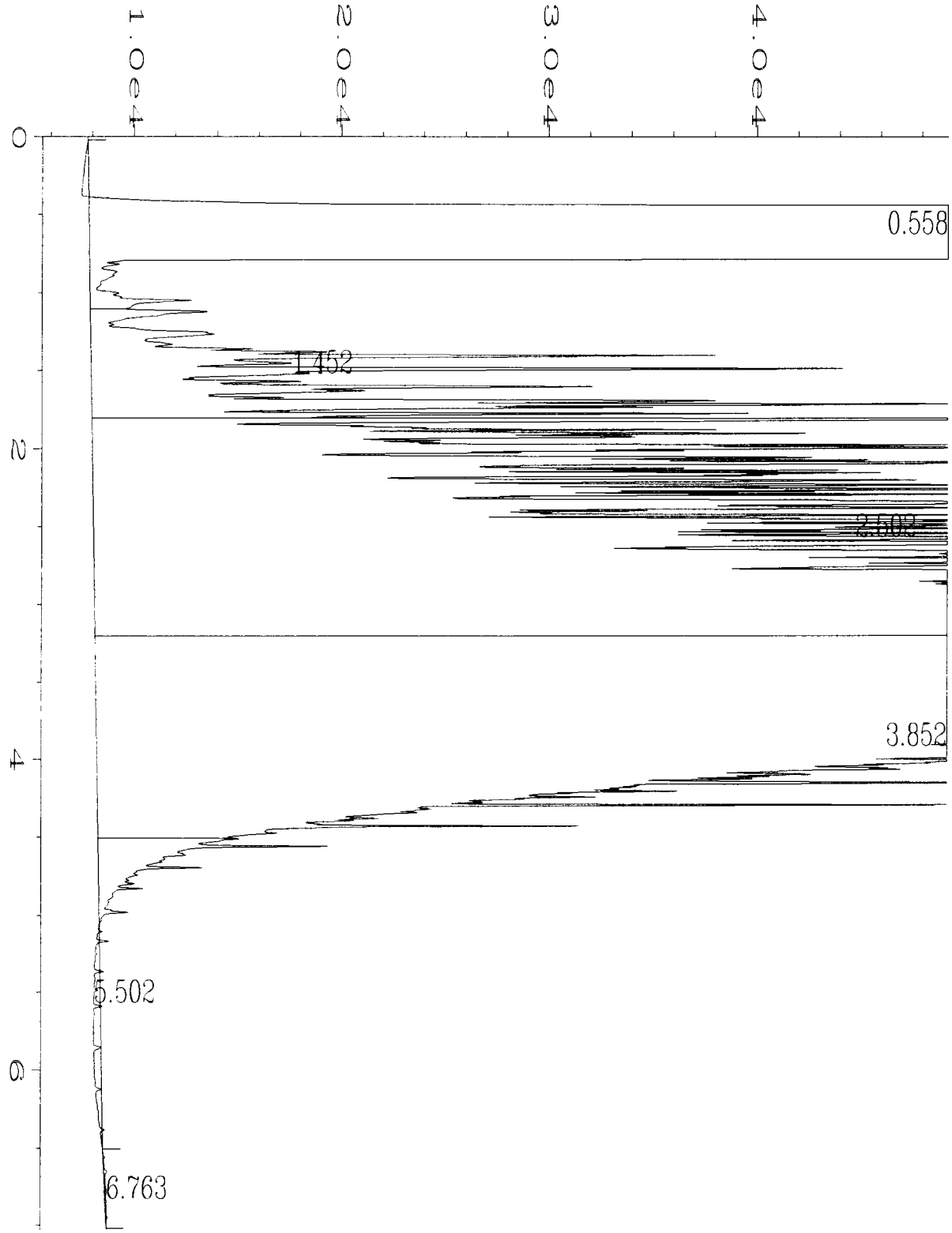
Last modified 1/15/15 mwdl			TPHDSL.XLS			
Data File Name	: C:\HPCHEM\1\DATA\01-14-15\025F0701.D					
Operator	: mwdl			Page Number	: 1	
Instrument	: GC1			Vial Number	: 25	
Sample Name	: 500ppm dx 44-94			Injection Number	: 1	
Run Time Bar Code:				Sequence Line	: 7	
Acquired on	1/14/15	17:31		Instrume	DX1.MTH	
Report Created on: 15 Jan 15 10:18 AM				Analysis Method	: DX1.MTH	
Surr / IS	**Ret Time window**		**Area**	**Avg. Area**		
Triacontane						Calibrated
0	>5.51	<5.57	0	8.24E+04		9/25/13
Pentacosane						
2	>4.53	<4.60	2111	9.11E+04		1/14/15
o-Terphenyl						
4	>3.73	<3.79	4119	1.00E+05		1/14/15
Results			Area	Resp. factor		Calibrated
Diesel, start C10 - start C25						
533	>1.8	<4.5	4.08E+06	7.66E+03		1/14/15
NWTPH-DX, start C10 - end C36						
527	>1.8	<6.5	4081303	7.75E+03		1/14/15
Motor Oil, start C25 - end C36						
0	>4.5	<6.5	-2112	5.16E+03		1/14/15
Heavy Oil, start C17- end C36						
307	>3.2	<6.5	2090699	6.80E+03		1/14/15
C12-C24						
641	>1.8	<4.5	4083415	6.37E+03		6/22/11
Stoddard, start C8 - end C11						
361	>1.1	<3.2	2190166	6.07E+03		6/25/12
Kerosene C8-C20						
682	>1.1	<4.5	4282977	6.28E+03		7/5/12
Bunker C						
956	>1.8	<6.5	4081304	4.27E+03		9/19/11
Calibration Info:						
Stoddard (8-11)	361					
TPHD (8-36)	273					
TPHDX (8-36)	270					
Motor Oil (8-36	405					



Data File Name	: C:\HPCHEM\1\DATA\01-14-15\026F0701.D		
Operator	: mwdl	Page Number	: 1
Instrument	: GC1	Vial Number	: 26
Sample Name	: 1000ppm dx 44-94	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 7
Acquired on	: 14 Jan 15 05:42 PM	Instrument Method	: DX1.MTH
Report Created on:	15 Jan 15 10:18 AM	Analysis Method	: DX1.MTH

Area Percent Report

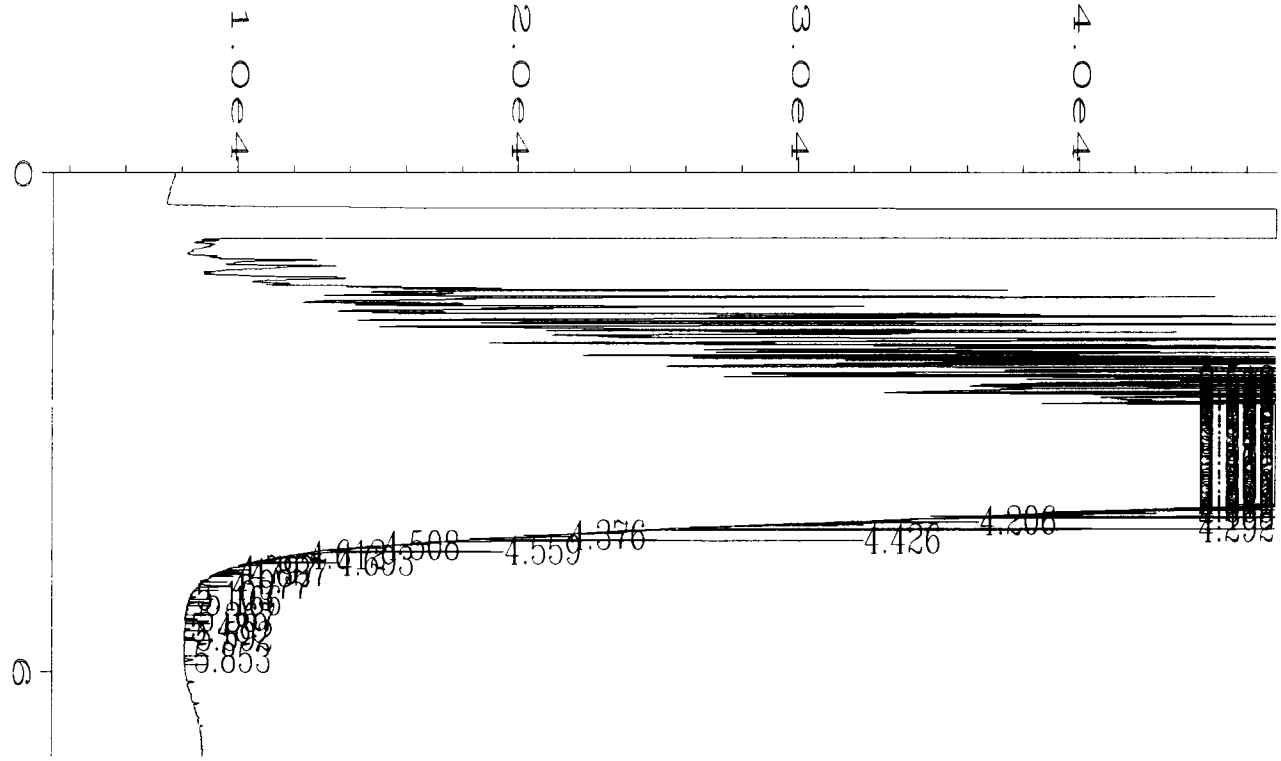
Data File Name : C:\HPCHEM\1\DATA\01-14-15\026F0701.D
Operator : mwdl
Instrument : GC1
Sample Name : 1000ppm dx 44-94
Run Time Bar Code:
Acquired on : 14 Jan 15 05:42 PM
Report Created on: 15 Jan 15 10:18 AM

Page Number : 1
Vial Number : 26
Injection Number : 1
Sequence Line : 7
Instrument Method: DX1.MTH
Analysis Method : DX1.MTH

Sig. 1 in C:\HPCHEM\1\DATA\01-14-15\026F0701.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.558	1.07294E+009	8.02888E+007	BVA	0.223	99.1972
2	1.452	411468	43443	VV +	0.000	0.0380
3	2.502	3995280	279766	VV +	0.000	0.3694
4	3.852	4223358	277986	VVA	0.253	0.3905
5	5.502	51737	10933	VV +	0.000	0.0048
6	6.763	1501	141	PB +	0.000	0.0001

Total area = 1.08162E+009



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Area Percent Report

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Data File Name : C:\HPCHEM\1\DATA\01-14-15\026R0701.D
Operator : mwdl
Instrument : GC1
Sample Name : 1000ppm dx 44-94
Run Time Bar Code:
Acquired on : 14 Jan 15 05:42 PM
Report Created on: 15 Jan 15 10:18 AM

Page Number : 1
Vial Number : 26
Injection Number : 1
Sequence Line : 7
Instrument Method: DX1.MTH
Analysis Method : istnddx.MTH

Sig. 2 in C:\HPCHEM\1\DATA\01-14-15\026R0701.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	2.513	12834	30893	BBAS	0.007	0.9064
2	2.544	19200	39596	BB	0.008	1.3560
3	2.577	84185	167257	BB	0.008	5.9459
4	2.616	49807	53712	BB	0.019	3.5178
5	2.662	32138	50295	BB	0.011	2.2699
6	2.691	19259	29034	BB	0.011	1.3603
7	2.716	31511	27901	BB	0.018	2.2256
8	2.793	104053	186086	BB	0.009	7.3491
9	2.828	12905	25868	BB	0.008	0.9115
10	2.859	12600	30769	BB	0.007	0.8899
11	2.895	21118	30504	BB	0.012	1.4915
12	2.920	24453	49942	BB	0.008	1.7271
13	2.996	62983	206686	BB	0.005	4.4484
14	3.060	9043	9691	BB	0.016	0.6387
15	3.117	54773	53013	BB	0.017	3.8686
16	3.153	10830	18728	BB	0.010	0.7649
17	3.188	105031	215025	BB	0.008	7.4182
18	3.240	9847	12328	BB	0.013	0.6955
19	3.278	46102	70297	BB	0.011	3.2562
20	3.371	157370	213302	BB	0.014	11.1148

21	3.463	22393	17250	BB	0.022	1.5816
22	3.495	14079	12519	BB	0.019	0.9944
23	3.542	148894	199776	BB	0.020	10.5162
24	3.609	21925	20234	BB	0.018	1.5486
25	3.705	94145	171840	BB	0.009	6.6494
26	3.770	12184	9550	BB	0.019	0.8605
27	3.803	10542	13528	BB	0.013	0.7446
28	3.837	7635	12115	BB	0.011	0.5392
29	3.861	56124	121431	BB	0.008	3.9639
30	3.890	9726	10667	BB	0.015	0.6870
31	3.921	10117	9876	BB	0.017	0.7145
32	3.973	8577	8227	BB	0.017	0.6058
33	4.010	43316	89070	BB	0.008	3.0594
34	4.065	6296	6783	BB	0.016	0.4447
35	4.153	27584	56073	BB	0.012	1.9482
36	4.206	3287	5516	BB	0.010	0.2322
37	4.292	17346	30867	BB	0.009	1.2251
38	4.376	1606	1360	BB	0.020	0.1134
39	4.426	7550	14933	BB	0.011	0.5332
40	4.508	1287	717	BB	0.030	0.0909
41	4.559	4302	7172	BB	0.015	0.3039
42	4.612	704	785	BB	0.015	0.0497
43	4.693	2002	3116	BB	0.017	0.1414
44	4.797	442	650	BB	0.011	0.0312
45	4.827	762	1301	BB	0.010	0.0538
46	4.977	1058	1197	BB	0.017	0.0747
47	5.103	121	207	BB	0.010	0.0085
48	5.166	470	608	BB	0.015	0.0332
49	5.367	373	467	BB	0.013	0.0263
50	5.489	152	193	BB	0.013	0.0107
51	5.592	357	411	BB	0.014	0.0252
52	5.853	452	333	BB	0.021	0.0319

Total area = 1415853

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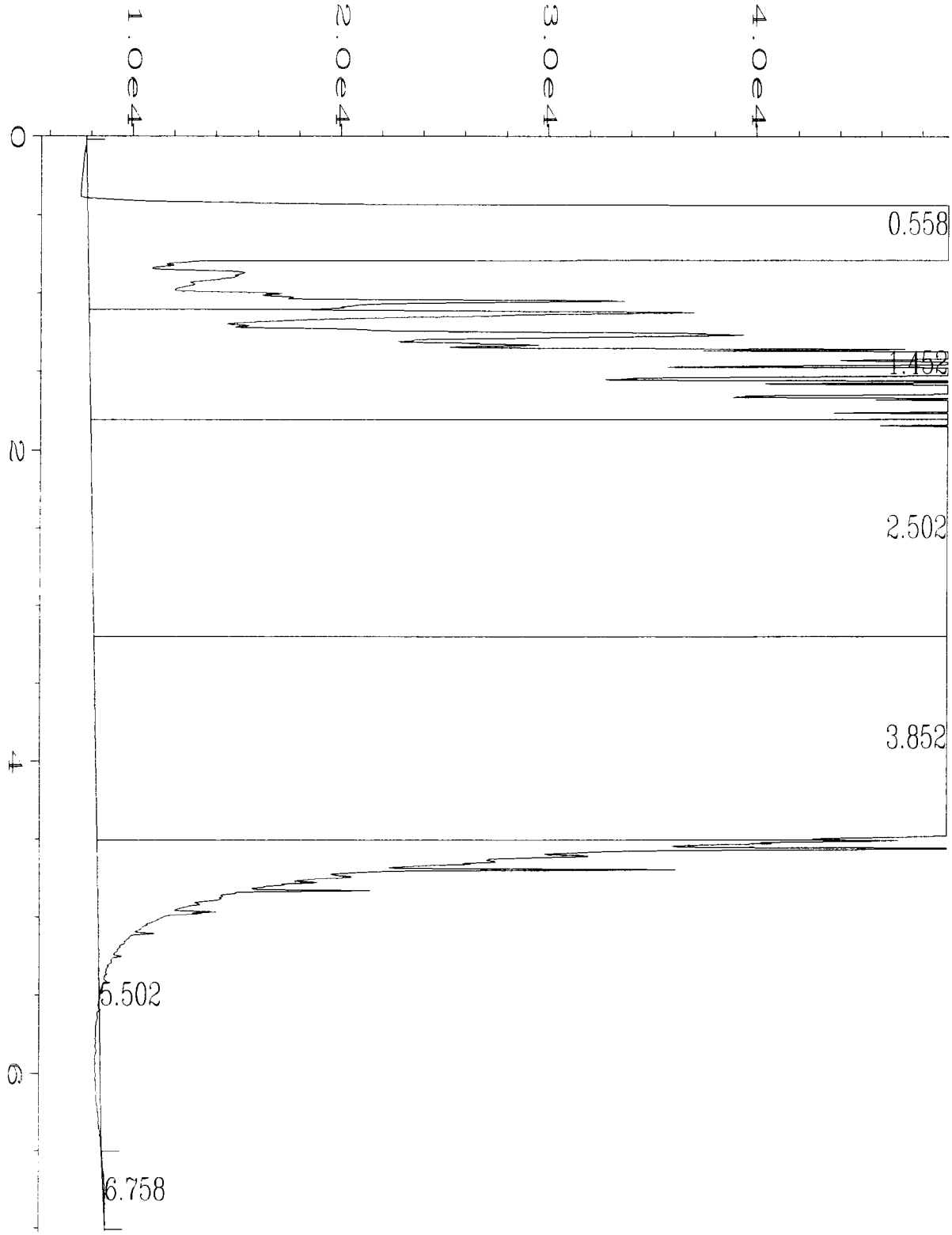
Last modified 1/15/15 mwdl			TPHDSL.XLS			
Data File Name	: C:\HPCHEM\1\DATA\01-14-15\026F0701.D					
Operator	: mwdl			Page Number	: 1	
Instrument	: GC1			Vial Number	: 26	
Sample Name	: 1000ppm dx 44-94			Injection Number	: 1	
Run Time Bar Code:				Sequence Line	: 7	
Acquired on	1/14/15	17:42		Instrume	DX1.MTH	
Report Created on: 15 Jan 15 10:18 AM				Analysis Method	: DX1.MTH	
Surr / IS	**Ret Time window**		**Area**	**Avg. Area**		
Triacontane						Calibrated
0	>5.51	<5.57	0	8.24E+04		9/25/13
Pentacosane						
5	>4.53	<4.60	4302	9.11E+04		1/14/15
o-Terphenyl						
12	>3.73	<3.79	12184	1.00E+05		1/14/15
Results			Area	Resp. factor		Calibrated
Diesel, start C10 - start C25						
1072	>1.8	<4.5	8.21E+06	7.66E+03		1/14/15
NWTPH-DX, start C10 - end C36						
1065	>1.8	<6.5	8253888	7.75E+03		1/14/15
Motor Oil, start C25 - end C36						
9	>4.5	<6.5	47434	5.16E+03		1/14/15
Heavy Oil, start C17- end C36						
626	>3.2	<6.5	4258608	6.80E+03		1/14/15
C12-C24						
1288	>1.8	<4.5	8206454	6.37E+03		6/22/11
Stoddard, start C8 - end C11						
726	>1.1	<3.2	4406748	6.07E+03		6/25/12
Kerosene C8-C20						
1372	>1.1	<4.5	8617922	6.28E+03		7/5/12
Bunker C						
1934	>1.8	<6.5	8253889	4.27E+03		9/19/11
Calibration Info:						
Stoddard (8-11)	726					
TPHD (8-36)	556					
TPHDX (8-36)	550					
Motor Oil (8-36	825					



Data File Name	: C:\HPCHEM\1\DATA\01-14-15\027F0701.D		
Operator	: mwdl	Page Number	: 1
Instrument	: GC1	Vial Number	: 27
Sample Name	: 5000ppm dx 44-94	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 7
Acquired on	: 14 Jan 15 05:53 PM	Instrument Method	: DX1.MTH
Report Created on:	15 Jan 15 10:18 AM	Analysis Method	: DX1.MTH

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Area Percent Report

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Data File Name : C:\HPCHEM\1\DATA\01-14-15\027F0701.D
Operator : mwdl
Instrument : GC1
Sample Name : 5000ppm dx 44-94
Run Time Bar Code:
Acquired on : 14 Jan 15 05:53 PM
Report Created on: 15 Jan 15 10:18 AM

Page Number : 1
Vial Number : 27
Injection Number : 1
Sequence Line : 7
Instrument Method: DX1.MTH
Analysis Method : DX1.MTH

Sig. 1 in C:\HPCHEM\1\DATA\01-14-15\027F0701.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.558	1.10231E+009	8.19486E+007	BVA	0.224	96.1740
2	1.452	2124221	212407	VVA	0.167	0.1853
3	2.502	1.96772E+007	1020401	VV +	0.000	1.7168
4	3.852	2.16041E+007	1133379	VVA	0.318	1.8849
5	5.502	445076	59786	VV +	0.000	0.0388
6	6.758	1257	96	PB +	0.000	0.0001

Total area = 1.14616E+009

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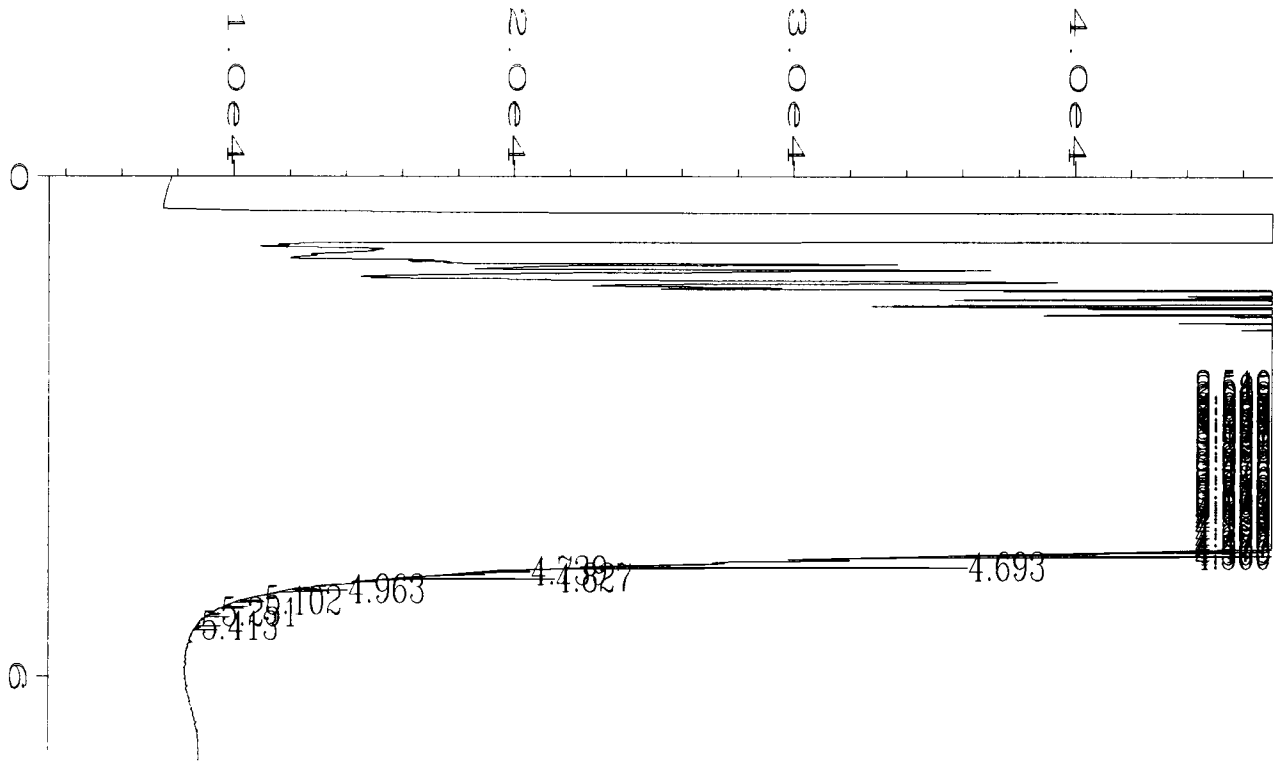

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Area Percent Report

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Data File Name : C:\HPCHEM\1\DATA\01-14-15\027R0701.D
Operator : mwdl
Instrument : GC1
Sample Name : 5000ppm dx 44-94
Run Time Bar Code:
Acquired on : 14 Jan 15 05:53 PM
Report Created on: 15 Jan 15 10:18 AM

Page Number : 1
Vial Number : 27
Injection Number : 1
Sequence Line : 7
Instrument Method: DX1.MTH
Analysis Method : istnddx.MTH

Sig. 2 in C:\HPCHEM\1\DATA\01-14-15\027R0701.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	2.519	21353	130118	BBAS	0.003	0.3104
2	2.549	93120	202552	BB	0.008	1.3536
3	2.585	690816	773586	BB	0.015	10.0419
4	2.668	158183	227549	BB	0.012	2.2994
5	2.697	85700	130545	BB	0.011	1.2457
6	2.722	110698	105087	BB	0.018	1.6091
7	2.802	482680	825558	BB	0.010	7.0163
8	2.835	95506	138043	BB	0.012	1.3883
9	2.867	70380	147557	BB	0.008	1.0231
10	2.904	75940	94165	BB	0.014	1.1039
11	2.929	94175	210746	BB	0.007	1.3689
12	3.007	220852	731811	BB	0.005	3.2104
13	3.045	19194	41441	BB	0.008	0.2790
14	3.070	51344	76775	BB	0.011	0.7463
15	3.127	420366	285953	BB	0.022	6.1105
16	3.200	572017	811304	BB	0.012	8.3150
17	3.250	46159	43190	BB	0.018	0.6710
18	3.288	224652	317044	BB	0.012	3.2656
19	3.385	735146	711192	BB	0.016	10.6863
20	3.473	95982	100310	BB	0.016	1.3952

21	3.505	71423	50137	BB	0.024	1.0382
22	3.556	720596	791916	BB	0.021	10.4748
23	3.620	115053	105999	BB	0.018	1.6724
24	3.719	480113	748950	BB	0.011	6.9790
25	3.779	68724	50729	BB	0.023	0.9990
26	3.812	45820	60054	BB	0.013	0.6660
27	3.847	33991	48077	BB	0.012	0.4941
28	3.872	274667	568568	BB	0.008	3.9926
29	3.900	42937	49609	BB	0.014	0.6241
30	3.931	49282	50106	BB	0.016	0.7164
31	3.982	45521	44877	BB	0.017	0.6617
32	4.020	208017	407562	BB	0.012	3.0238
33	4.104	27499	12479	BB	0.037	0.3997
34	4.160	128048	266750	BB	0.008	1.8613
35	4.209	24812	30160	BB	0.015	0.3607
36	4.295	80805	143495	BB	0.009	1.1746
37	4.377	13409	6839	BB	0.033	0.1949
38	4.427	37604	75206	BB	0.011	0.5466
39	4.473	4409	5446	BB	0.013	0.0641
40	4.509	4955	6330	BB	0.013	0.0720
41	4.560	21205	35358	BB	0.016	0.3082
42	4.693	7214	14443	BB	0.008	0.1049
43	4.739	1837	1684	BB	0.017	0.0267
44	4.827	3959	6241	BB	0.014	0.0576
45	4.963	2210	2182	BB	0.017	0.0321
46	5.102	658	1066	BB	0.010	0.0096
47	5.251	161	392	BB	0.014	0.0023
48	5.413	171	198	BB	0.017	0.0025

Total area = 6879364

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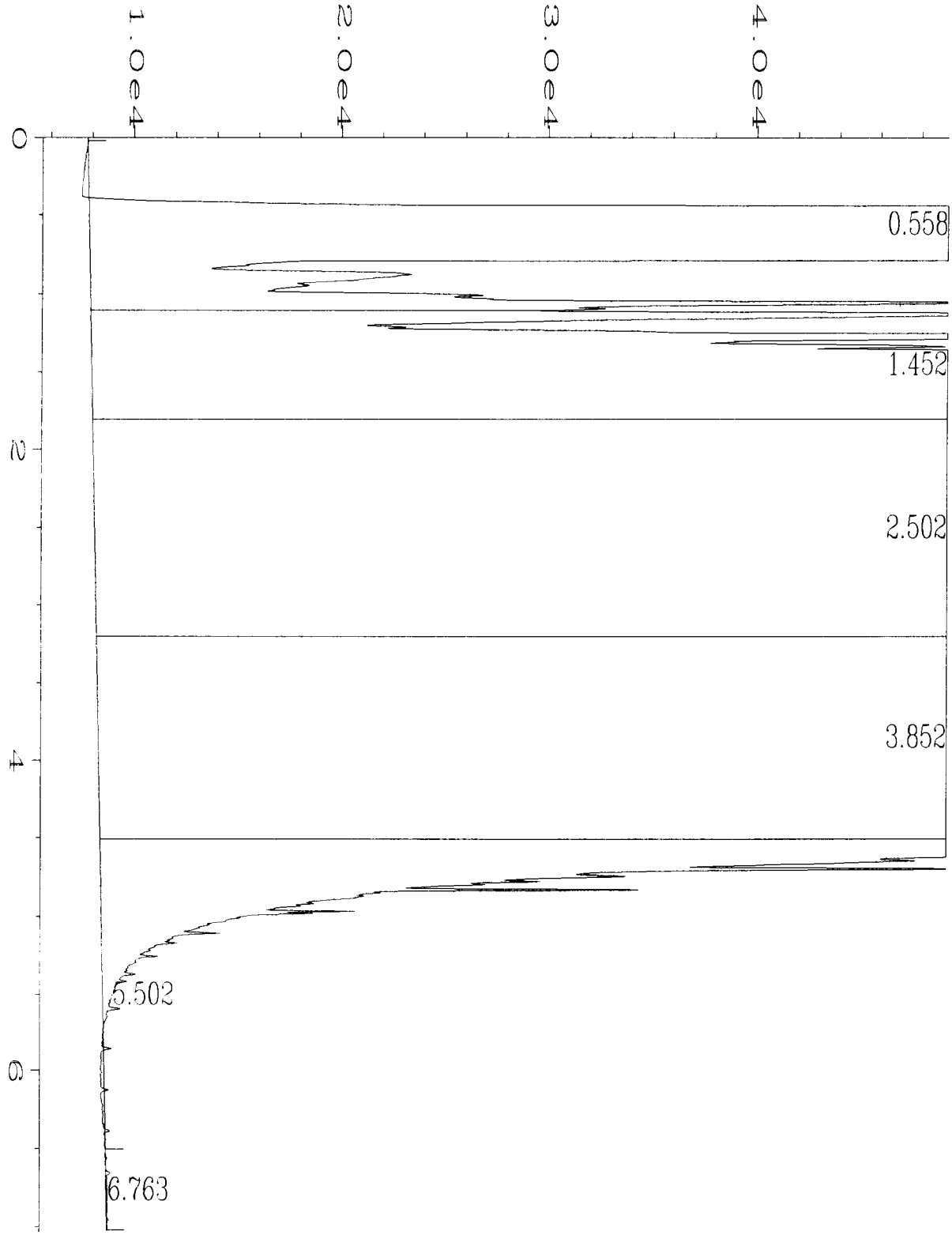
Last modified 1/15/15 mwdl			TPHDSL.XLS			
Data File Name	: C:\HPCHEM\1\DATA\01-14-15\027F0701.D					
Operator	: mwdl			Page Number	: 1	
Instrument	: GC1			Vial Number	: 27	
Sample Name	: 5000ppm dx 44-94			Injection Number	: 1	
Run Time Bar Code:				Sequence Line	: 7	
Acquired on	1/14/15	17:53		Instrume	DX1.MTH	
Report Created on: 15 Jan 15 10:18 AM				Analysis Method	: DX1.MTH	
Surr / IS	**Ret Time window**		**Area**	**Avg. Area**		
Triacontane						Calibrated
0	>5.51	<5.57	0	8.24E+04		9/25/13
Pentacosane						
23	>4.53	<4.60	21205	9.11E+04		1/14/15
o-Terphenyl						
69	>3.73	<3.79	68724	1.00E+05		1/14/15
Results			Area	Resp. factor		Calibrated
Diesel, start C10 - start C25						
5382	>1.8	<4.5	4.12E+07	7.66E+03		1/14/15
NWTPH-DX, start C10 - end C36						
5374	>1.8	<6.5	41636446	7.75E+03		1/14/15
Motor Oil, start C25 - end C36						
82	>4.5	<6.5	423870	5.16E+03		1/14/15
Heavy Oil, start C17- end C36						
3230	>3.2	<6.5	21959246	6.80E+03		1/14/15
C12-C24						
6467	>1.8	<4.5	41212576	6.37E+03		6/22/11
Stoddard, start C8 - end C11						
3589	>1.1	<3.2	21801421	6.07E+03		6/25/12
Kerosene C8-C20						
6902	>1.1	<4.5	43336797	6.28E+03		7/5/12
Bunker C						
9755	>1.8	<6.5	41636447	4.27E+03		9/19/11
Calibration Info:						
Stoddard (8-11)	3589					
TPHD (8-36)	2868					
TPHDX (8-36)	2834					
Motor Oil (8-36	4256					



Data File Name	: C:\HPCHEM\1\DATA\01-14-15\028F0701.D		
Operator	: mwdl	Page Number	: 1
Instrument	: GC1	Vial Number	: 28
Sample Name	: 10000 dx 44-94	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 7
Acquired on	: 14 Jan 15 06:03 PM	Instrument Method:	DX1.MTH
Report Created on:	15 Jan 15 10:18 AM	Analysis Method	: DX1.MTH

Area Percent Report

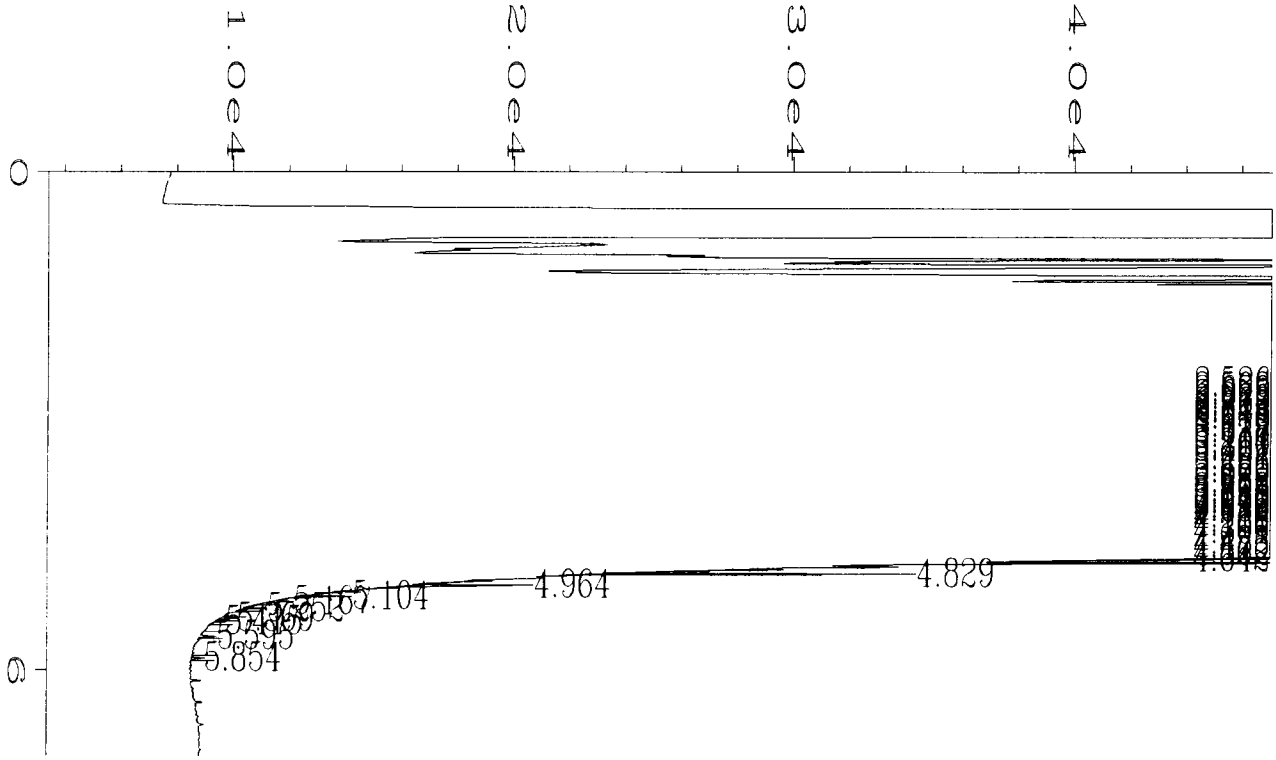
Data File Name : C:\HPCHEM\1\DATA\01-14-15\028F0701.D
Operator : mwdl
Instrument : GC1
Sample Name : 10000 dx 44-94
Run Time Bar Code:
Acquired on : 14 Jan 15 06:03 PM
Report Created on: 15 Jan 15 10:18 AM

Page Number : 1
Vial Number : 28
Injection Number : 1
Sequence Line : 7
Instrument Method: DX1.MTH
Analysis Method : DX1.MTH

Sig. 1 in C:\HPCHEM\1\DATA\01-14-15\028F0701.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.558	1.10339E+009	8.23236E+007	BVA	0.223	92.7257
2	1.452	4185822	411434	VVA	0.170	0.3518
3	2.502	3.78786E+007	1809989	VV +	0.000	3.1832
4	3.852	4.35489E+007	1905955	VVA	0.381	3.6597
5	5.502	945529	116257	VV +	0.000	0.0795
6	6.763	1085	197	VB +	0.000	0.0001

Total area = 1.18995E+009



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Area Percent Report

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Data File Name : C:\HPCHEM\1\DATA\01-14-15\028R0701.D
Operator : mwdl
Instrument : GC1
Sample Name : 10000 dx 44-94
Run Time Bar Code:
Acquired on : 14 Jan 15 06:03 PM
Report Created on: 15 Jan 15 10:18 AM

Page Number : 1
Vial Number : 28
Injection Number : 1
Sequence Line : 7
Instrument Method: DX1.MTH
Analysis Method : istnddx.MTH

Sig. 2 in C:\HPCHEM\1\DATA\01-14-15\028R0701.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	2.526	157789	222113	BBAS	0.012	1.3213
2	2.593	868940	1111732	BB	0.013	7.2761
3	2.629	409207	450325	BB	0.015	3.4265
4	2.675	325482	423467	BB	0.013	2.7254
5	2.730	274348	169930	BB	0.027	2.2973
6	2.760	214019	335019	BB	0.011	1.7921
7	2.813	935299	1319747	BB	0.012	7.8317
8	2.844	185421	242279	BB	0.013	1.5526
9	2.915	245063	191027	BB	0.022	2.0520
10	3.019	354968	1232842	BB	0.009	2.9723
11	3.078	51565	91633	BB	0.009	0.4318
12	3.137	757670	458949	BB	0.027	6.3444
13	3.214	1087152	1208379	BB	0.015	9.1033
14	3.260	62769	80040	BB	0.014	0.5256
15	3.301	379241	515045	BB	0.012	3.1756
16	3.401	1329448	1196167	BB	0.017	11.1322
17	3.486	671705	255136	BB	0.044	5.6245
18	3.570	597408	853632	BB	0.012	5.0024
19	3.682	190855	157805	BB	0.020	1.5981
20	3.732	807308	1156206	BB	0.012	6.7600

21	3.793	151115	73801	BB	0.034	1.2654
22	3.825	88369	113293	BB	0.013	0.7400
23	3.858	41051	74799	BB	0.009	0.3437
24	3.885	526819	775433	BB	0.011	4.4113
25	3.911	68564	84093	BB	0.014	0.5741
26	3.940	84795	89488	BB	0.016	0.7100
27	3.992	69700	85430	BB	0.014	0.5836
28	4.030	397360	661140	BB	0.014	3.3273
29	4.113	11339	24017	BB	0.008	0.0950
30	4.168	229485	426614	BB	0.009	1.9216
31	4.216	45664	58431	BB	0.015	0.3824
32	4.301	148656	273285	BB	0.009	1.2448
33	4.432	93739	143711	BB	0.011	0.7849
34	4.475	11689	11570	BB	0.017	0.0979
35	4.562	40593	67554	BB	0.017	0.3399
36	4.642	11221	3727	BB	0.041	0.0940
37	4.829	8329	12472	BB	0.011	0.0697
38	4.964	3940	4349	BB	0.015	0.0330
39	5.104	1331	1787	BB	0.012	0.0111
40	5.167	615	827	BB	0.012	0.0051
41	5.252	558	891	BB	0.015	0.0047
42	5.369	503	625	BB	0.013	0.0042
43	5.415	336	429	BB	0.013	0.0028
44	5.595	526	626	BB	0.014	0.0044
45	5.854	456	489	BB	0.016	0.0038

Total area = 1.19424E+007

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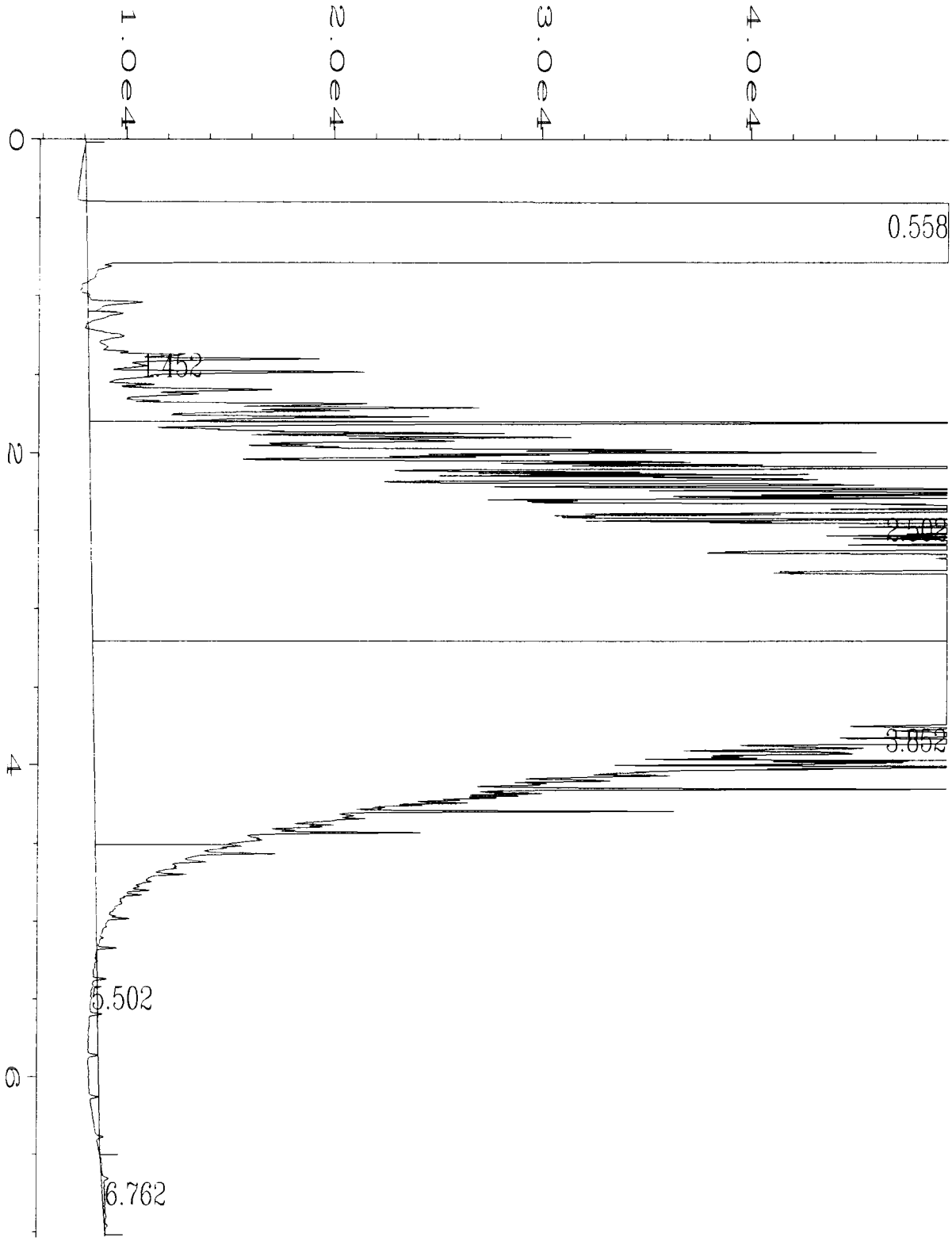
Last modified 1/15/15 mwdl			TPHDSL.XLS				
Data File Name : C:\HPCHEM\1\DATA\01-14-15\028F0701.D							
Operator : mwdl				Page Number : 1			
Instrument : GC1				Vial Number : 28			
Sample Name : 10000 dx 44-94				Injection Number : 1			
Run Time Bar Code:				Sequence Line : 7			
Acquired on	1/14/15	18:03		Instrume	DX1.MTH		
Report Created on: 15 Jan 15 10:18 AM				Analysis Method : DX1.MTH			
Surr / IS	**Ret Time window**		**Area**	**Avg. Area**			
Triacontane						Calibrated	
0	>5.51	<5.57	0	8.24E+04		9/25/13	
Pentacosane							
45	>4.53	<4.60	40593	9.11E+04		1/14/15	
o-Terphenyl							
805	>3.73	<3.79	807308	1.00E+05		1/14/15	
Results			Area	Resp. factor		Calibrated	
Diesel, start C10 - start C25							
10528	>1.8	<4.5	8.06E+07	7.66E+03		1/14/15	
NWTPH-DX, start C10 - end C36							
10522	>1.8	<6.5	81525127	7.75E+03		1/14/15	
Motor Oil, start C25 - end C36							
175	>4.5	<6.5	904935	5.16E+03		1/14/15	
Heavy Oil, start C17- end C36							
6419	>3.2	<6.5	43646527	6.80E+03		1/14/15	
C12-C24							
12651	>1.8	<4.5	80620192	6.37E+03		6/22/11	
Stoddard, start C8 - end C11							
6926	>1.1	<3.2	42064422	6.07E+03		6/25/12	
Kerosene C8-C20							
13506	>1.1	<4.5	84806014	6.28E+03		7/5/12	
Bunker C							
19100	>1.8	<6.5	81525128	4.27E+03		9/19/11	
Calibration Info:							
Stoddard (8-11)	6926						
TPHD (8-36)	5700						
TPHDX (8-36)	5633						
Motor Oil (8-36	8460						



Data File Name	: C:\HPCHEM\1\DATA\01-14-15\029F0901.D		
Operator	: mwdl	Page Number	: 1
Instrument	: GC1	Vial Number	: 29
Sample Name	: 1000 dx2' 43-120	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 9
Acquired on	: 14 Jan 15 06:23 PM	Instrument Method	: DX1.MTH
Report Created on:	15 Jan 15 10:19 AM	Analysis Method	: DX1.MTH

Area Percent Report

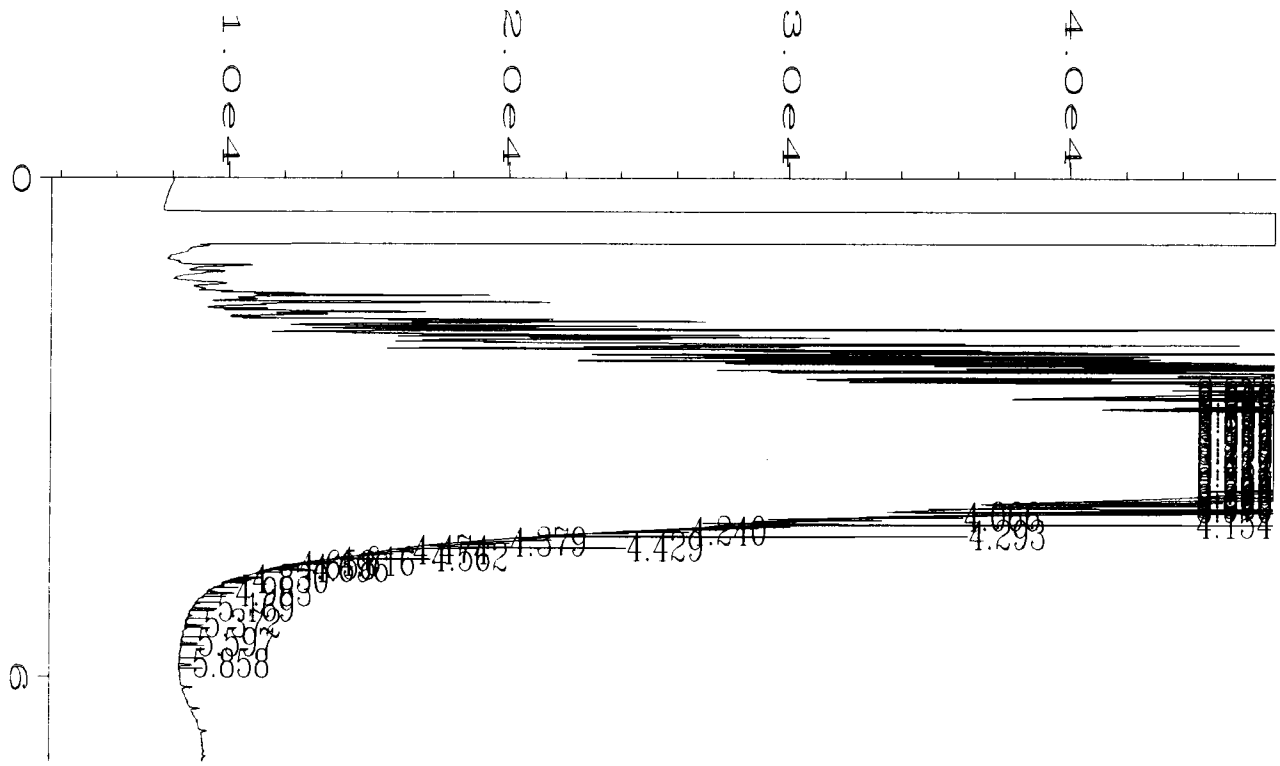
Data File Name : C:\HPCHEM\1\DATA\01-14-15\029F0901.D
Operator : mwdl
Instrument : GC1
Sample Name : 1000 dx2' 43-120
Run Time Bar Code:
Acquired on : 14 Jan 15 06:23 PM
Report Created on: 15 Jan 15 10:19 AM

Page Number : 1
Vial Number : 29
Injection Number : 1
Sequence Line : 9
Instrument Method: DX1.MTH
Analysis Method : DX1.MTH

Sig. 1 in C:\HPCHEM\1\DATA\01-14-15\029F0901.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.558	1.03677E+009	7.85301E+007	BVA	0.220	99.2226
2	1.452	154863	18816	VV +	0.000	0.0148
3	2.502	4479757	284572	VVA	0.262	0.4287
4	3.852	3422452	255837	VVA	0.223	0.3275
5	5.502	63104	8506	VV +	0.000	0.0060
6	6.762	2642	284	PB +	0.000	0.0003

Total area = 1.0449E+009



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Area Percent Report

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Data File Name : C:\HPCHEM\1\DATA\01-14-15\029R0901.D
Operator : mwdl
Instrument : GC1
Sample Name : 1000 dx2' 43-120
Run Time Bar Code:
Acquired on : 14 Jan 15 06:23 PM
Report Created on: 15 Jan 15 10:19 AM

Page Number : 1
Vial Number : 29
Injection Number : 1
Sequence Line : 9
Instrument Method: DX1.MTH
Analysis Method : istnddx.MTH

Sig. 2 in C:\HPCHEM\1\DATA\01-14-15\029R0901.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	2.576	134728	233130	BBAS	0.010	8.3228
2	2.616	91810	157524	BB	0.010	5.6716
3	2.660	49504	86945	BB	0.009	3.0581
4	2.689	21497	37844	BB	0.009	1.3280
5	2.743	67837	66956	BB	0.020	4.1907
6	2.793	135974	243035	BB	0.013	8.3998
7	2.835	27024	37800	BB	0.012	1.6694
8	2.894	109914	122146	BB	0.015	6.7899
9	2.996	85500	230851	BB	0.006	5.2818
10	3.034	20733	12593	BB	0.027	1.2808
11	3.062	35441	57086	BB	0.010	2.1894
12	3.117	102494	89128	BB	0.019	6.3316
13	3.155	27720	50521	BB	0.009	1.7124
14	3.188	123171	241980	BB	0.008	7.6089
15	3.239	18870	22756	BB	0.014	1.1657
16	3.276	50831	66190	BB	0.013	3.1401
17	3.370	127917	204163	BB	0.012	7.9021
18	3.417	8843	10470	BB	0.014	0.5463
19	3.464	43066	34303	BB	0.020	2.6604
20	3.541	54825	142260	BB	0.006	3.3868

21	3.659	17447	19449	BB	0.015	1.0778
22	3.704	65307	123464	BB	0.009	4.0343
23	3.730	13494	20808	BB	0.011	0.8336
24	3.766	7715	10384	BB	0.012	0.4766
25	3.806	35397	35038	BB	0.020	2.1867
26	3.860	52551	81218	BB	0.011	3.2464
27	3.890	6573	7219	BB	0.014	0.4061
28	3.923	8314	7126	BB	0.019	0.5136
29	3.970	20757	14930	BB	0.023	1.2823
30	4.066	3486	3580	BB	0.016	0.2154
31	4.154	15131	26774	BB	0.009	0.9347
32	4.240	4911	2847	BB	0.029	0.3034
33	4.293	7736	15974	BB	0.008	0.4779
34	4.379	5192	2191	BB	0.040	0.3207
35	4.429	5506	8241	BB	0.011	0.3401
36	4.474	1536	1168	BB	0.019	0.0949
37	4.562	2764	3884	BB	0.017	0.1708
38	4.616	1147	1451	BB	0.013	0.0708
39	4.658	916	723	BB	0.021	0.0566
40	4.696	1054	1678	BB	0.010	0.0651
41	4.830	987	838	BB	0.019	0.0610
42	4.983	810	1032	BB	0.016	0.0500
43	5.169	670	948	BB	0.015	0.0414
44	5.372	537	689	BB	0.013	0.0332
45	5.597	605	624	BB	0.015	0.0374
46	5.858	536	472	BB	0.018	0.0331

Total area = 1618777

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Last modified 1/15/15 mwdl			TPHDSL.XLS				
Data File Name	: C:\HPCHEM\1\DATA\01-14-15\029F0901.D						
Operator	: mwdl			Page Number		: 1	
Instrument	: GC1			Vial Number		: 29	
Sample Name	: 1000 dx2' 43-120			Injection Number		: 1	
Run Time Bar Code:				Sequence Line		: 9	
Acquired on	1/14/15	18:23		Instrume	DX1.MTH		
Report Created on: 15 Jan 15 10:19 AM				Analysis Method		: DX1.MTH	
Surr / IS	**Ret Time window**		**Area**	**Avg. Area**			
Triacontane						Calibrated	
0	>5.51	<5.57	0	8.24E+04		9/25/13	
Pentacosane							
3	>4.53	<4.60	2764	9.11E+04		1/14/15	
o-Terphenyl							
8	>3.73	<3.79	7715	1.00E+05		1/14/15	
Results			Area	Resp. factor		Calibrated	
Diesel, start C10 - start C25							
1031	>1.8	<4.5	7.89E+06	7.66E+03		1/14/15	
NWTPH-DX, start C10 - end C36							
1027	>1.8	<6.5	7954833	7.75E+03		1/14/15	
Motor Oil, start C25 - end C36							
12	>4.5	<6.5	60339	5.16E+03		1/14/15	
Heavy Oil, start C17- end C36							
511	>3.2	<6.5	3475076	6.80E+03		1/14/15	
C12-C24							
1239	>1.8	<4.5	7894494	6.37E+03		6/22/11	
Stoddard, start C8 - end C11							
763	>1.1	<3.2	4634620	6.07E+03		6/25/12	
Kerosene C8-C20							
1282	>1.1	<4.5	8049357	6.28E+03		7/5/12	
Bunker C							
1864	>1.8	<6.5	7954834	4.27E+03		9/19/11	
Calibration Info:							
Stoddard (8-11)	763						
TPHD (8-36)	454						
TPHDX (8-36)	449						
Motor Oil (8-36	674						

NWTPH-Dx
MDLs

F&B Project 506026

MDL Results GC1

SUMMARY

(Analyst: Do not enter anything in this worksheet. See instructions.)

SOIL

2 grams of soil extracted into 10 mL solvent no concentration

Analyte	(StdDev*2.998) MDL	(2*MDL) PQL	(5*MDL) PQL	Std Dev	Mean	Spike Level	% Rec.	Date Calculated	Reporting Limit
Diesel	4.75	9.5	23.8	1.59	13.3	13	106	02/09/15	50
Diesel extended	5.15	10.3	25.7	1.72	15.0	13	120	02/09/15	50
Motor Oil	9.9	19.8	49.6	3.31	42.7	50	85	02/09/15	250
Heavy Oil	13.7	27.4	68.4	4.56	44.4	50	89	02/09/15	250
Stoddard solvent	5.91	11.8	29.5	1.97	13.5	13	108	02/09/15	50

20 grams of soil extracted and concentrated into 10 mL solvent

Analyte	(StdDev*2.998) MDL	(2*MDL) PQL	(5*MDL) PQL	Std Dev	Mean	Spike Level	% Rec.	Date Calculated	Reporting Limit
Diesel	0.62	1.24	3.09	0.21	2.31	2.5	92	01/27/15	10
Diesel extended	0.75	1.50	3.74	0.25	2.85	2.5	114	01/27/15	10
Motor Oil	0.78	1.55	3.89	0.26	4.4	5.0	88	02/09/15	25
Heavy Oil	1.03	2.06	5.15	0.34	4.9	5.0	99	02/09/15	25
Stoddard Solvent	1.44	2.88	7.19	0.48	1.1	1	91	02/09/15	10

WATER

Analyte	(StdDev*2.998) MDL	(2*MDL) PQL	(5*MDL) PQL	Std Dev	Mean	Spike Level	% Rec.	Date Calculated	Reporting Limit
Diesel	7.4	14.7	36.8	2.46	33.8	25	135	01/26/15	50
Diesel extended	9.5	18.9	47.4	3.16	37.8	25	151	01/26/15	250
Motor Oil	8.4	16.8	42.1	2.81	82.8	100	83	02/09/15	250
Heavy Oil	10.8	21.6	54.0	3.60	88.5	100	89	02/09/15	250
Stoddard solvent	6.5	13.0	32.6	2.17	26.7	25	107	02/09/15	50

MDL Results GC6

SUMMARY

(Analyst: Do not enter anything in this worksheet. See instructions.)

SOIL

2 grams of soil extracted into 10 mL solvent no concentration

Analyte	(StdDev*2.998) MDL	(2*MDL) PQL	(5*MDL) PQL	Std Dev	Mean	Spike Level	% Rec.	Date Calculated	Reporting Limit
Diesel	4.62	9.2	23.1	1.54	11.8	13	94	02/10/15	50
Diesel extended	4.66	9.3	23.3	1.55	12.7	13	102	02/10/15	50
Motor Oil	9.4	18.8	47.1	3.14	41.6	50	83	02/10/15	250
Heavy Oil	10.2	20.3	50.8	3.39	43.4	50	87	02/10/15	250
Stoddard solvent	7.46	14.9	37.3	2.49	15.6	13	124	02/10/15	50

20 grams of soil extracted and concentrated into 10 mL solvent

Analyte	(StdDev*2.998) MDL	(2*MDL) PQL	(5*MDL) PQL	Std Dev	Mean	Spike Level	% Rec.	Date Calculated	Reporting Limit
Diesel	0.62	1.23	3.08	0.21	1.71	1.3	137	01/21/15	5
Diesel extended	0.80	1.60	4.00	0.27	1.91	1.3	152	01/21/15	5
Motor Oil	0.61	1.21	3.03	0.20	4.0	5.0	80	02/10/15	25
Heavy Oil	0.64	1.28	3.21	0.21	4.3	5.0	85	02/10/15	25
Stoddard Solvent	0.79	1.57	3.93	0.26	2.0	1	159	02/10/15	5
									500

WATER

Analyte	(StdDev*2.998) MDL	(2*MDL) PQL	(5*MDL) PQL	Std Dev	Mean	Spike Level	% Rec.	Date Calculated	Reporting Limit
Diesel	9.9	19.9	49.7	3.32	29.7	25	119	01/26/15	50
Diesel extended	10.9	21.9	54.7	3.65	30.2	25	121	01/26/15	250
Motor Oil	9.6	19.1	47.8	3.19	74.8	100	75	02/10/15	250
Heavy Oil	11.3	22.6	56.4	3.76	79.4	100	79	02/10/15	250
Stoddard solvent	9.1	18.3	45.7	3.05	28.8	25	115	02/10/15	50

NWTPH-Dx
Sequence Tables

F&B Project 506026

Sequence Table

Inj.	Seq. Line	Cal. Line	Method Name	From Vial	To Vial	Inj/ Vial
FRONT						
	1		BAKEOUT	1	1	1
	2		DX	2	3	1
	3		DX	6	12	1
	4		DX	11	11	1
	5		DX	13	28	1
	6		DX	4	5	1
	7		DX	27	27	1
	8		DX	29	31	1
	9		DX	4	5	1
	10		DX	32	47	1
	11		DX	92	93	1
	12		DX	48	53	1
	13		DX	92	93	1
	14		END	1	1	1
REAR						
	1					

Sample Table

Vial Num.	Sample Name	Sample Amount	Multiplier	ISTD Amount
1	MeCl2			
2	500 MO 44-50D			
3	500 Dx 44-94C			
4	1000 MO 44-151B			
5	1000 Dx 44-172C			
6	05-1041 MB2			
7	506037-01			
8	506037-02			
9	506037-03			
10	506037-04			
11	506051-01			
12	506051-02			
13	506046-01			
14	506046-02			
15	506047-01			
16	506047-02			
17	506049-01			
18	506049-02			
19	506049-03			
20	506049-04			
21	506055-01			
22	506055-02			
23	506055-03			
24	05-1046 mb			
25	05-1046 lcs			
26	506055-01 ms			
27	506055-01 md			
28	506054-01			
29	506064-01			
30	506064-02			
31	506064-03			

BCI 6/3/15 2 of 2

Sample Table

Vial Num.	Sample Name	Sample Amount	Multiplier	ISTD Amount
32	05-1045 mb			
33	05-1045 lcs			
34	05-1045 lcsd			
35	506025-01			
36	506025-02			
37	506025-03			
38	506025-04			
39	506025-05			
40	506026-01			
41	506026-02			
42	506026-03			
43	506026-04			
44	506058-01			
45	506058-02			
46	506058-03			
47	506058-04			
48	506066-04			
49	506066-05			
50	506066-06			
51	505436-05			
52	506070-01			
53	506070-02			
92	500 MO 44-50B			
93	500 Dx 43-199B			
94	1000 MO 41-165C			
95	1000 Dx 41-155C			
96	HCIDs G/M 39-144			
97	HCIDs Dx 39-46			
98	HCIDw G/M 35-175			
99	HCIDw Dx 35-174			
100	WADF RT 35-139			

04 Jun 15 05:48 AM
Sequence: C:\HPCHEM\6\SEQUENCE\06-03-15.SEQ

B 6/4

Sequence Table

Inj.	Seq. Line	Cal. Line	Method Name	From Vial	To Vial	Inj/ Vial
FRONT						
	1		BAKEOUT	1	1	1
	2		DX	2	3	1
	3		DX	6	23	1
	4		DX	81	82	1
	5		DX	24	30	1
	6		DX	96	97	1
	7		DX	4	5	1
	8		END	1	1	1
	9		DX	31	41	1
	10		DX	4	5	1
	11		DX	42	54	1
	12		DX	92	93	1
	13		END	1	1	1
REAR						
	1					

Sample Table

Vial Num.	Sample Name	Sample Amount	Multiplier	ISTD Amount
1	MeCl2			
2	500 MO 44-50D			
3	500 Dx 44-94C			
4	1000 MO 44-151B			
5	1000 Dx 44-172C			
6	506052-01			
7	506052-02			
8	05-1042 mb			
9	05-1042 lcs			
10	506042-01 ms			
11	506042-01 md			
12	506042-01			
13	506042-02			
14	506042-03			
15	506042-04			
16	05-1044 mb			
17	05-1044 lcs			
18	506038-03 ms			
19	506038-03 md			
20	506038-03			
21	506038-04			
22	506039-01			
23	506039-02			
24	506026-05			
25	506026-06			
26	506026-07			
27	506026-08			
28	505436-05 dup			
29	506057-01			
30	506057-02			
31	05-1048 mb			
32	05-1048 lcs			

GC 6 6/3/15

Sample Table

Vial Num.	Sample Name	Sample Amount	Multiplier	ISTD Amount
33	506067-03 ms			
34	506067-03 md			
35	506067-03			
36	506067-06			
37	506067-09			
38	506067-12			
39	506067-15			
40	506068-01			
41	506068-02			
42	506068-03			
43	506068-04			
44	506068-05			
45	506068-06			
46	506068-07			
47	506068-08			
48	506068-09			
49	506068-10			
50	506068-11			
51	506068-12			
52	506068-13			
53	506068-14			
54	506068-15			
81	05-1043 mb			
82	505436-05			
92	500 MO 44-50D			
93	500 Dx 44-94C			
94	1000 MO 43-24D			
95	1000 Dx 44-94B			
96	HCIDs G/M 39-144			
97	HCIDs Dx 39-46			
98	HCIDw 35-175			
99	HCIDw 35-174			
100	WADF RT 42-181			

NWTPH-Dx
Checklists

F&B Project 506026

Diesel Summary Checklist for GC 1 Date 6/3

Day of Analysis/Morning Checklist	CCVs (Check if passed)		
QA 1 Processed ____ ☐ QA 2 Processed ____	☑ ☑ CCV 1	mo	dx
QA 3 Processed ____ ☐ QA 4 Processed ____	☑ ☑ CCV 2	mo	dx
Y Same Day Rush samples processed	☑ ☑ CCV 3	mo	dx
☑ Pull/Check vials	☑ ☑ CCV 4	mo	dx
☑ Check/Fill rinse vials and solvent	☑ ☑ CCV 5	mo	dx
Y N Did all Surrogates pass	☐ ☐ CCV 6 ____	____	

Data Processing	Data Review
Y N Were all CCVs within 12 hours	Y / N Reintegrations calculated correctly
☐ Reintegrations marked and done	Y / N Excel Sheet Filled out correctly
☐ Cgrams printed	Y / N Headers Correct
☐ Excel Sheet filled out	Y / N Correct Matrix/Units
☐ Macro Run	Y / N Was EDD info added
☑ Part Reports finished/Ready for Review	Y / N Was QC calculated correctly

Same-Day Rush Samples	Samples to be Reanalyzed	Maintenance to be Done
____	____	☐ Change Liner
____	____	☐ Change Septa
____	____	☐ Clip Column
____	____	☐ ____
____	____	Symptom ____
____	____	____

Date/Time Finished Processing Data Pack 9a 6/4/15

Date/Time Finished Reviewing Data Pack 9:58 6/4/15 MC

Diesel Summary Checklist for GC 6 Date 6/3

Day of Analysis/Morning Checklist	CCVs (Check if passed)
☐ QA 1 Processed _____ ☐ QA 2 Processed _____	☐ ☐ CCV 1 mo dx
☐ QA 3 Processed _____ ☐ QA 4 Processed _____	☐ ☐ CCV 2 mo dx
☑ Same Day Rush samples processed	☐ ☐ CCV 3 mo dx
☑ Pull/Check vials	☐ ☐ CCV 4 mo dx
☐ Check/Fill rinse vials and solvent	☐ ☐ CCV 5 mo dx
Y / N Did all Surrogates pass	☐ ☐ CCV 6 _____ _____

Data Processing	Data Review
Y / N Were all CCVs within 12 hours	Y / N Reintegrations calculated correctly
☐ Reintegrations marked and done	Y / N Excel Sheet Filled out correctly
☐ Cgrams printed	Y / N Headers Correct
☐ Excel Sheet filled out	Y / N Correct Matrix/Units
☐ Macro Run	Y / N Was EDD info added
☐ Part Reports finished/Ready for Review	Y / N Was QC calculated correctly

Same-Day Rush Samples	Samples to be Reanalyzed	Maintenance to be Done
_____	_____	☐ Change Liner
_____	_____	☐ Change Septa
_____	_____	☐ Clip Column
_____	_____	☐ _____
_____	_____	Symptom _____
_____	_____	_____

Date/Time Finished Processing Data Pack 9:40a 6/4/15

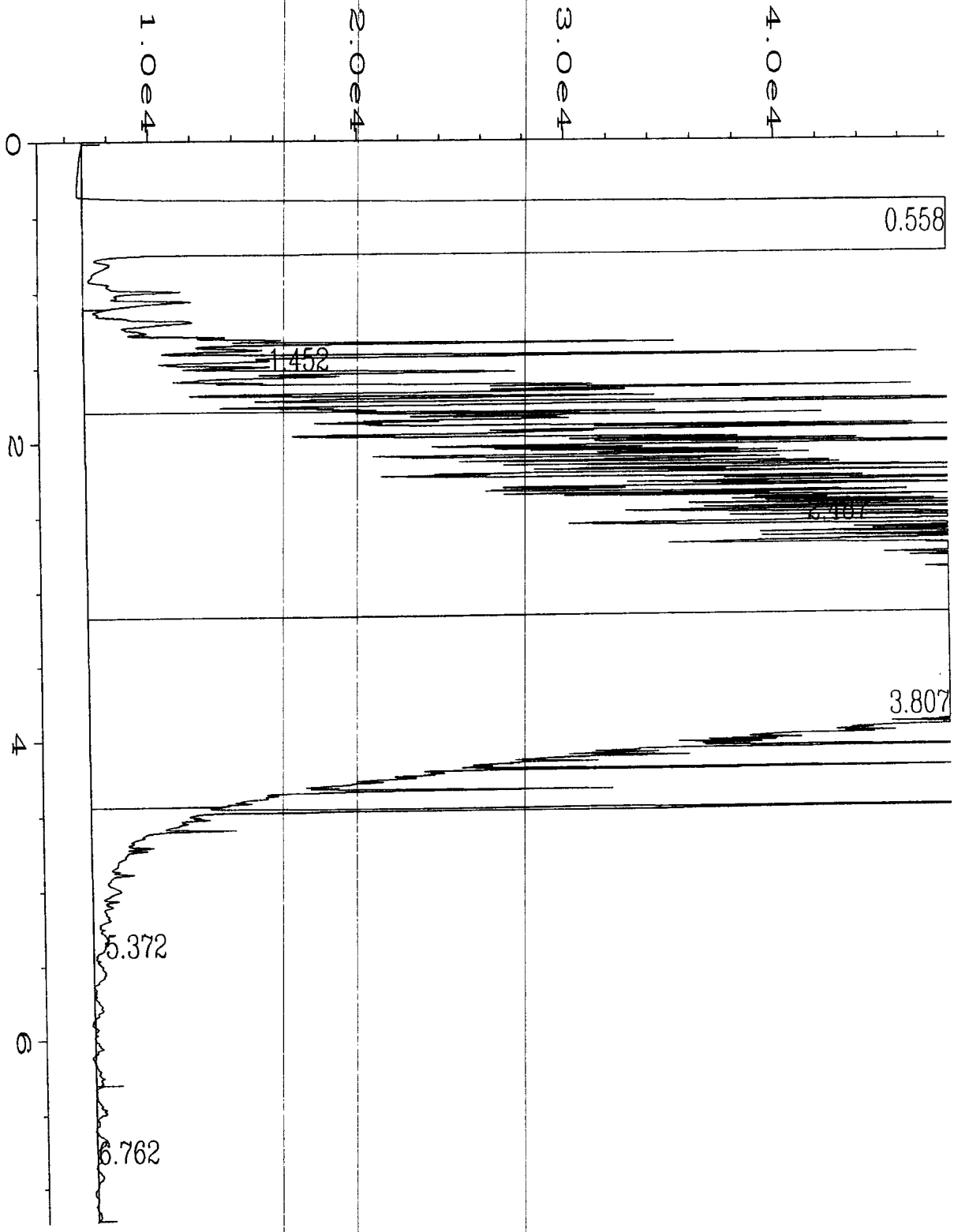
Date/Time Finished Reviewing Data Pack _____

Revision Date: 5-11-11

sops\chklist\diesel

NWTPH-Dx
CCVs

F&B Project 506026



Data File Name : C:\HPCHEM\1\DATA\06-03-15\005F0901.D
Operator : mwdl
Instrument : GC1
Sample Name : 1000 Dx 44-172C
Run Time Bar Code:
Acquired on : 03 Jun 15 03:09 PM
Report Created on: 03 Jun 15 03:20 PM

Page Number : 1
Vial Number : 5
Injection Number : 1
Sequence Line : 9
Instrument Method: DX.MTH
Analysis Method : DX.MTH

Area Percent Report

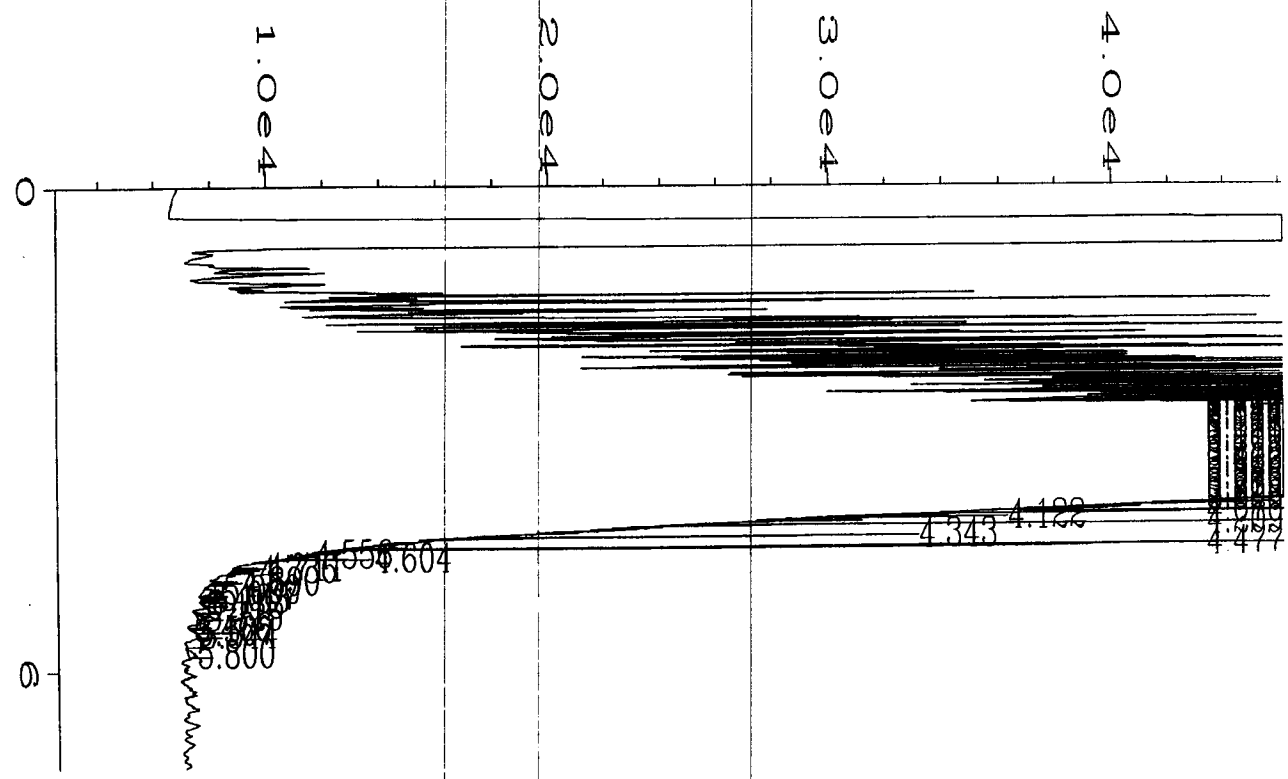
Data File Name : C:\HPCHEM\1\DATA\06-03-15\005F0901.D
Operator : mwdl
Instrument : GC1
Sample Name : 1000 Dx 44-172C
Run Time Bar Code:
Acquired on : 03 Jun 15 03:09 PM
Report Created on: 03 Jun 15 03:20 PM

Page Number : 1
Vial Number : 5
Injection Number : 1
Sequence Line : 9
Instrument Method: DX.MTH
Analysis Method : DX.MTH

Sig. 1 in C:\HPCHEM\1\DATA\06-03-15\005F0901.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.558	1.06197E+009	8.38087E+007	BVA	0.211	99.1910
2	1.452	461902	127672	VV +	0.000	0.0431
3	2.487	3877158	265030	VVA	0.244	0.3621
4	3.807	4102401	252183	VVA	0.271	0.3832
5	5.372	213962	214198	VV +	0.000	0.0200
6	6.762	5796	495	VB +	0.000	0.0005

Total area = 1.07063E+009



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Area Percent Report

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Data File Name : C:\HPCHEM\1\DATA\06-03-15\005R0901.D
Operator : mwdl
Instrument : GC1
Sample Name : 1000 Dx 44-172C
Run Time Bar Code:
Acquired on : 03 Jun 15 03:09 PM
Report Created on: 03 Jun 15 03:20 PM

Page Number : 1
Vial Number : 5
Injection Number : 1
Sequence Line : 9
Instrument Method: DX.MTH
Analysis Method : istnddx.MTH

Sig. 2 in C:\HPCHEM\1\DATA\06-03-15\005R0901.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	2.582	32495	44385	BB	0.012	2.2338
2	2.615	16671	27731	BB	0.010	1.1460
3	2.640	24504	32834	BB	0.012	1.6845
4	2.669	36355	53124	BB	0.011	2.4992
5	2.718	95267	173899	BB	0.009	6.5490
6	2.748	19491	27190	BB	0.012	1.3399
7	2.816	22343	24867	BB	0.015	1.5359
8	2.846	49378	62053	BB	0.013	3.3945
9	2.884	9305	11393	BB	0.014	0.6396
10	2.920	89978	195318	BB	0.008	6.1854
11	3.036	60801	32137	BB	0.028	4.1797
12	3.111	100665	199341	BB	0.008	6.9201
13	3.159	12919	12024	BB	0.018	0.8881
14	3.200	45522	80747	BB	0.009	3.1294
15	3.293	148834	207859	BB	0.014	10.2314
16	3.370	16257	16731	BB	0.018	1.1176
17	3.416	13426	19895	BB	0.011	0.9230
18	3.463	83115	178819	BB	0.008	5.7137
19	3.520	27651	6809	BB	0.055	1.9008
20	3.626	108018	176882	BB	0.010	7.4255

21	3.676	110255	215116	BB	0.009	7.5793
22	3.753	30711	19908	BB	0.022	2.1112
23	3.779	57903	132148	BB	0.007	3.9805
24	3.838	5238	6496	BB	0.013	0.3601
25	3.893	12642	13635	BB	0.017	0.8690
26	3.928	44145	86757	BB	0.008	3.0347
27	4.070	34224	55034	BB	0.013	2.3527
28	4.122	6354	7344	BB	0.014	0.4368
29	4.209	16601	30881	BB	0.017	1.1412
30	4.343	10415	16894	BB	0.010	0.7160
31	4.477	102221	214449	BB	0.008	7.0270
32	4.556	1754	634	BB	0.037	0.1206
33	4.604	1943	3690	BB	0.009	0.1336
34	4.711	736	1237	BB	0.010	0.0506
35	4.736	658	1024	BB	0.011	0.0452
36	4.890	742	1112	BB	0.011	0.0510
37	5.000	1999	720	BB	0.036	0.1374
38	5.067	470	712	BB	0.011	0.0323
39	5.103	438	376	BB	0.019	0.0301
40	5.173	170	124	BB	0.023	0.0117
41	5.325	590	254	BB	0.033	0.0406
42	5.466	107	186	BB	0.010	0.0073
43	5.507	112	99.7	BB	0.019	0.0077
44	5.544	189	142	BB	0.022	0.0130
45	5.800	1066	301	BB	0.047	0.0733

Total area = 1454680

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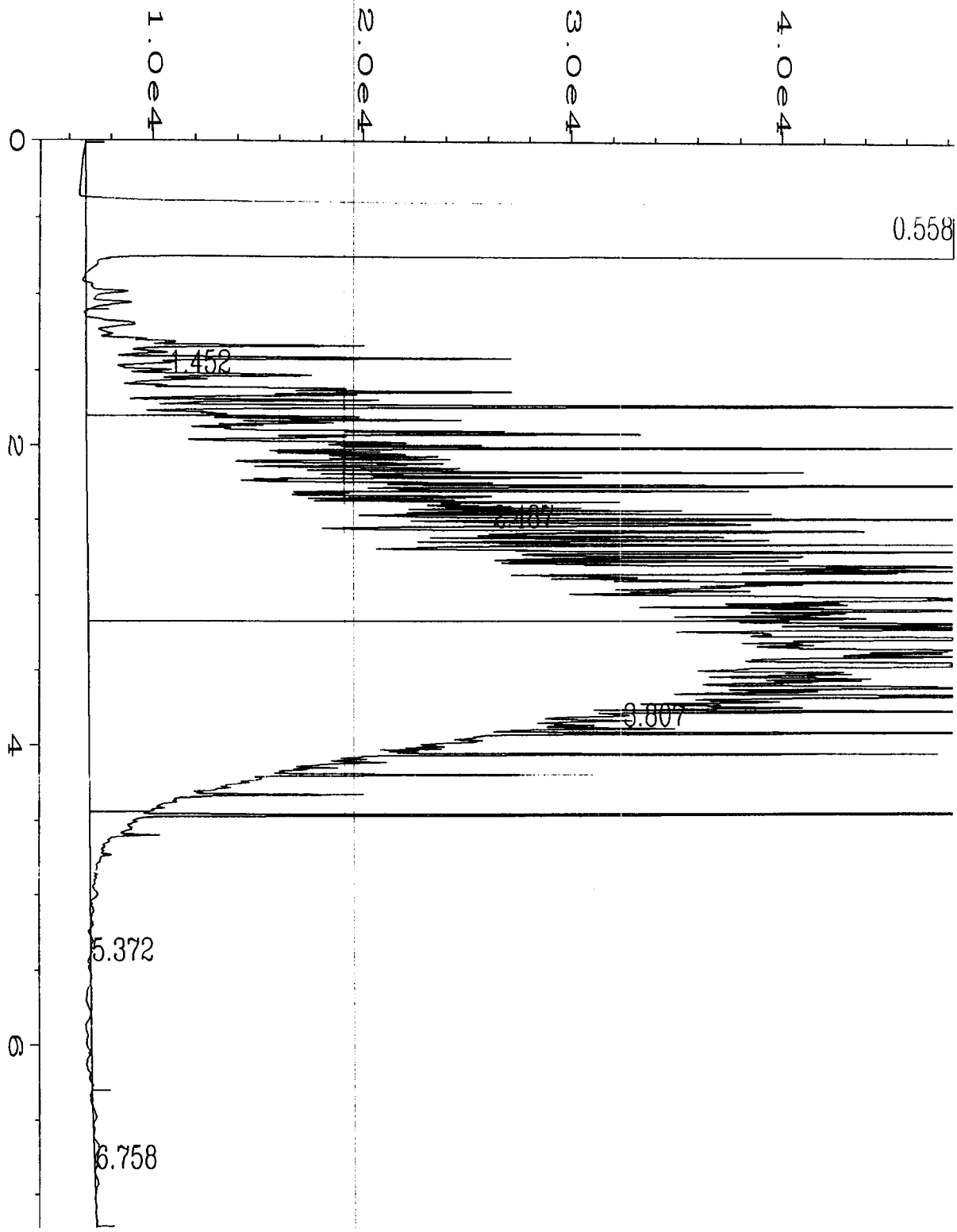
Last modified 4/21/15 mwdl			TPHDSL.XLS			
Data File Name	: C:\HPCHEM\1\DATA\06-03-15\005F0901.D					
Operator	: mwdl			Page Number	: 1	
Instrument	: GC1			Vial Number	: 5	
Sample Name	: 1000 Dx 44-172C			Injection Number	: 1	
Run Time Bar Code:				Sequence Line	: 9	
Acquired on	6/3/15	15:09		Instrume	DX.MTH	
Report Created on: 03 Jun 15 03:20 PM				Analysis Method	: DX.MTH	
Surr / IS	**Ret Time window**		**Area**	**Avg. Area**		
Triacontane						Calibrated
0	>5.22	<5.26	0	8.24E+04		9/25/13
Pentacosane						
112	>4.44	<4.53	102221	9.11E+04		1/14/15
o-Terphenyl						
110	>3.63	<3.72	110255	1.00E+05		1/14/15
Results			Area	Resp. factor		Calibrated
Diesel, start C10 - start C25						
1028	>1.8	<4.44	7.87E+06	7.66E+03		1/14/15
NWTPH-DX, start C10 - end C36						
1030	>1.8	<6.3	7981044	7.75E+03		1/14/15
Motor Oil, start C25 - end C36						
22	>4.44	<6.3	111740	5.16E+03		1/14/15
Heavy Oil, start C17- end C36						
604	>3.17	<6.3	4103886	6.80E+03		1/14/15
C12-C24						
1235	>1.8	<4.44	7869304	6.37E+03		6/22/11
Stoddard, start C8 - end C11						
516	>1.1	<3.17	4339060	8.41E+03		1/16/15
Kerosene C8-C20						
1327	>1.1	<4.44	8331206	6.28E+03		7/5/12
Bunker C						
1870	>1.8	<6.3	7981045	4.27E+03		9/19/11
Calibration Info:						
Stoddard (8-11)	516					
TPHD (8-36)	536					
TPHDX (8-36)	530					
Motor Oil (8-36	795					



Data File Name	: C:\HPCHEM\1\DATA\06-03-15\093F1101.D		
Operator	: mwdl	Page Number	: 1
Instrument	: GC1	Vial Number	: 93
Sample Name	: 500 Dx 43-199B	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 11
Acquired on	: 03 Jun 15 06:49 PM	Instrument Method	: DX.MTH
Report Created on	: 03 Jun 15 06:59 PM	Analysis Method	: DX.MTH

Area Percent Report

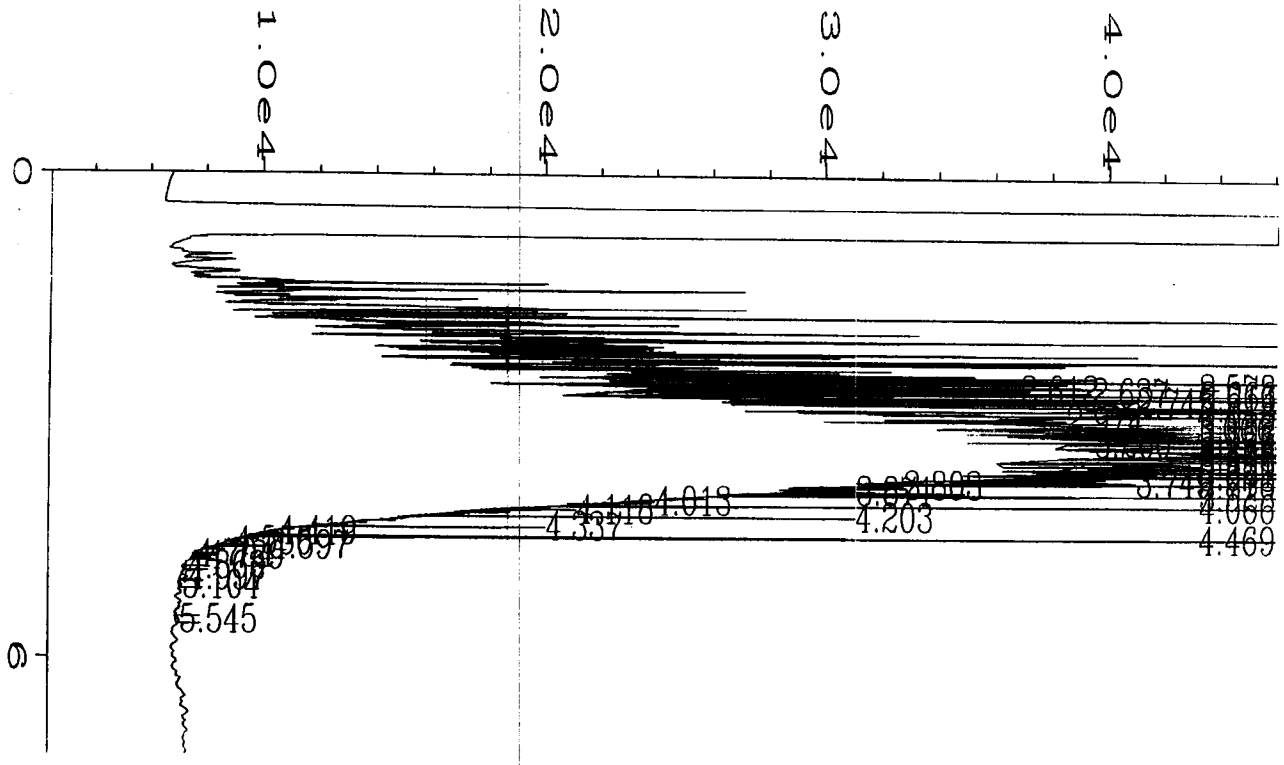
Data File Name : C:\HPCHEM\1\DATA\06-03-15\093F1101.D
Operator : mwdl
Instrument : GC1
Sample Name : 500 Dx 43-199B
Run Time Bar Code:
Acquired on : 03 Jun 15 06:49 PM
Report Created on: 03 Jun 15 06:59 PM

Page Number : 1
Vial Number : 93
Injection Number : 1
Sequence Line : 11
Instrument Method: DX.MTH
Analysis Method : DX.MTH

Sig. 1 in C:\HPCHEM\1\DATA\06-03-15\093F1101.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.558	1.02406E+009	7.98646E+007	BVA	0.214	99.5729
2	1.452	221105	64319	VV +	0.000	0.0215
3	2.487	1948604	142918	VV +	0.000	0.1895
4	3.807	2097808	228185	VVA	0.153	0.2040
5	5.372	122454	194768	VV +	0.000	0.0119
6	6.758	2887	224	PB +	0.000	0.0003

Total area = 1.02845E+009



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Area Percent Report

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Data File Name : C:\HPCHEM\1\DATA\06-03-15\093R1101.D
Operator : mwdl
Instrument : GC1
Sample Name : 500 Dx 43-199B
Run Time Bar Code:
Acquired on : 03 Jun 15 06:49 PM
Report Created on: 03 Jun 15 06:59 PM

Page Number : 1
Vial Number : 93
Injection Number : 1
Sequence Line : 11
Instrument Method: DX.MTH
Analysis Method : istnddx.MTH

Sig. 2 in C:\HPCHEM\1\DATA\06-03-15\093R1101.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	2.578	16125	22608	BB	0.012	2.0501
2	2.612	8295	13955	BB	0.010	1.0546
3	2.637	12863	17011	BB	0.013	1.6354
4	2.666	19745	28432	BB	0.012	2.5103
5	2.714	49056	97736	BB	0.008	6.2368
6	2.745	9730	14385	BB	0.011	1.2370
7	2.813	10916	13407	BB	0.014	1.3878
8	2.916	15330	106122	BB	0.002	1.9491
9	2.974	1391	4229	BB	0.005	0.1769
10	3.032	18338	13116	BB	0.023	2.3314
11	3.066	5343	7148	BB	0.012	0.6793
12	3.107	53509	116731	BB	0.008	6.8030
13	3.156	6286	7206	BB	0.015	0.7992
14	3.196	23043	40055	BB	0.010	2.9296
15	3.260	1326	117	BB	0.188	0.1685
16	3.288	82825	109930	BB	0.013	10.5302
17	3.366	9346	7873	BB	0.021	1.1883
18	3.413	6907	10053	BB	0.011	0.8781
19	3.459	74198	102579	BB	0.020	9.4333
20	3.530	11053	7160	BB	0.026	1.4052

21	3.621	43747	82045	BB	0.009	5.5619
22	3.673	100920	207036	BB	0.008	12.8307
23	3.749	13118	9085	BB	0.024	1.6677
24	3.776	28829	66340	BB	0.007	3.6652
25	3.803	2135	2293	BB	0.016	0.2714
26	3.871	4915	2549	BB	0.032	0.6249
27	3.923	25982	47563	BB	0.016	3.3033
28	4.013	1392	1290	BB	0.018	0.1769
29	4.066	12889	28531	BB	0.011	1.6387
30	4.118	3516	3413	BB	0.017	0.4470
31	4.203	8049	16445	BB	0.008	1.0234
32	4.337	4879	8607	BB	0.012	0.6203
33	4.419	455	519	BB	0.015	0.0578
34	4.469	96041	202281	BB	0.008	12.2104
35	4.550	710	317	BB	0.032	0.0903
36	4.597	1183	2112	BB	0.009	0.1504
37	4.704	104	138	BB	0.013	0.0132
38	4.729	327	543	BB	0.010	0.0416
39	4.862	202	190	BB	0.018	0.0257
40	4.997	775	284	BB	0.037	0.0985
41	5.104	325	130	BB	0.036	0.0413
42	5.545	437	133	BB	0.046	0.0556

Total area = 786553

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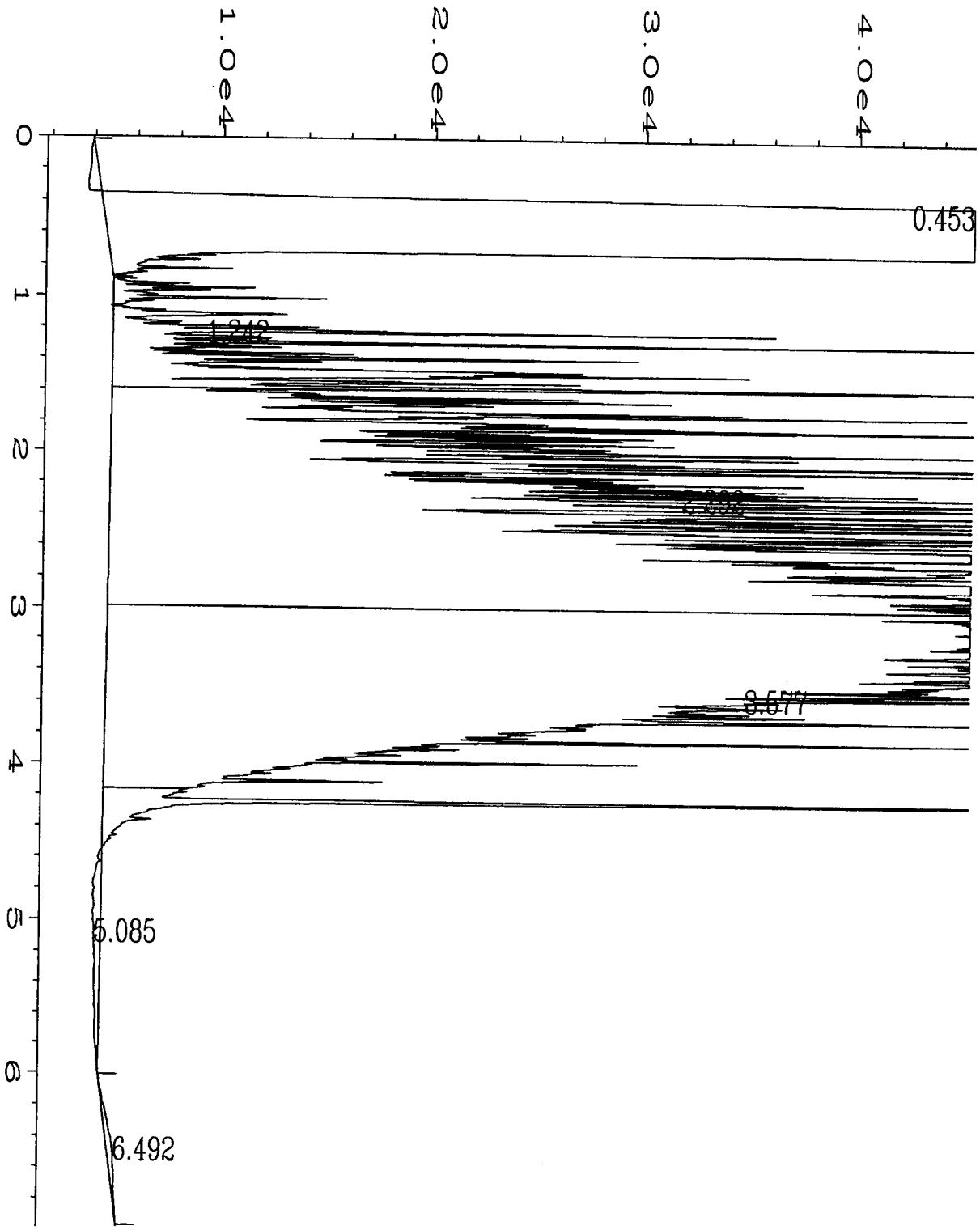
Last modified 4/21/15 mwdl			TPHDSL.XLS			
Data File Name	: C:\HPCHEM\1\DATA\06-03-15\093F1101.D					
Operator	: mwdl			Page Number	: 1	
Instrument	: GC1			Vial Number	: 93	
Sample Name	: 500 Dx 43-199B			Injection Number	: 1	
Run Time Bar Code:				Sequence Line	: 11	
Acquired on	6/3/15	18:49		Instrume	DX.MTH	
Report Created on: 03 Jun 15 06:59 PM				Analysis Method	: DX.MTH	
Surr / IS	**Ret Time window**		**Area**	**Avg. Area**		
Triacontane					Calibrated	
0	>5.22	<5.26	0	8.24E+04	9/25/13	
Pentacosane						
105	>4.44	<4.53	96041	9.11E+04	1/14/15	
o-Terphenyl						
101	>3.63	<3.72	100920	1.00E+05	1/14/15	
Results			Area	Resp. factor	Calibrated	
Diesel, start C10 - start C25						
515	>1.8	<4.44	3.95E+06	7.66E+03	1/14/15	
NWTPH-DX, start C10 - end C36						
513	>1.8	<6.3	3971904	7.75E+03	1/14/15	
Motor Oil, start C25 - end C36						
5	>4.44	<6.3	26412	5.16E+03	1/14/15	
Heavy Oil, start C17- end C36						
298	>3.17	<6.3	2023300	6.80E+03	1/14/15	
C12-C24						
619	>1.8	<4.44	3945492	6.37E+03	6/22/11	
Stoddard, start C8 - end C11						
258	>1.1	<3.17	2169709	8.41E+03	1/16/15	
Kerosene C8-C20						
664	>1.1	<4.44	4166597	6.28E+03	7/5/12	
Bunker C						
931	>1.8	<6.3	3971905	4.27E+03	9/19/11	
Calibration Info:						
Stoddard (8-11)	258					
TPHD (8-36)	264					
TPHDX (8-36)	261					
Motor Oil (8-36	392					



Data File Name	: C:\HPCHEM\6\DATA\06-03-15\003F0201.D		
Operator	: mwdl	Page Number	: 1
Instrument	: GC #6	Vial Number	: 3
Sample Name	: 500 Dx 44-94C	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 2
Acquired on	: 03 Jun 15 09:10 AM	Instrument Method	: DX.MTH
Report Created on	: 03 Jun 15 09:20 AM	Analysis Method	: DX.MTH

Area Percent Report

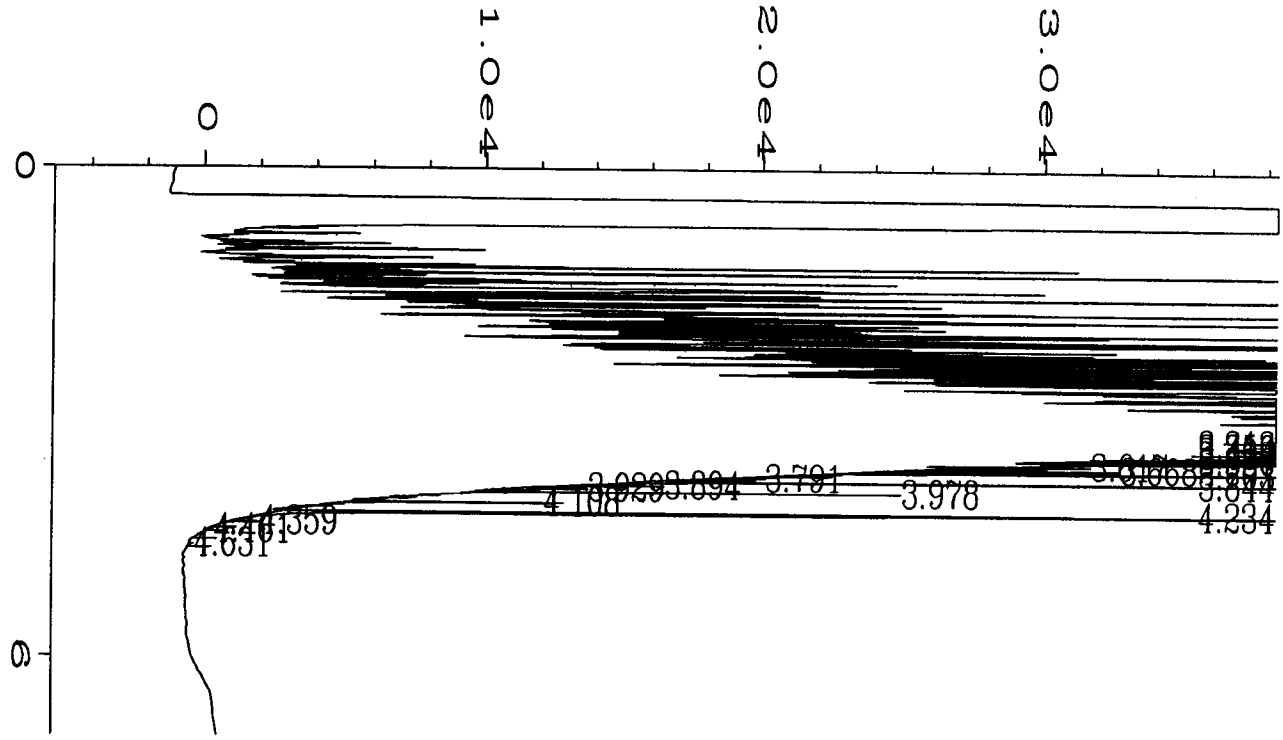
Data File Name : C:\HPCHEM\6\DATA\06-03-15\003F0201.D
Operator : mwdl
Instrument : GC #6
Sample Name : 500 Dx 44-94C
Run Time Bar Code:
Acquired on : 03 Jun 15 09:10 AM
Report Created on: 03 Jun 15 09:20 AM

Page Number : 1
Vial Number : 3
Injection Number : 1
Sequence Line : 2
Instrument Method: DX.MTH
Analysis Method : DX.MTH

Sig. 1 in C:\HPCHEM\6\DATA\06-03-15\003F0201.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.453	1.27801E+009	1.01368E+008	BB +	0.000	99.5720
2	1.242	313206	103544	BVA	0.050	0.0244
3	2.292	2611610	175943	VV +	0.000	0.2035
4	3.577	2446460	278128	VVA	0.147	0.1906
5	5.085	114394	185826	VV +	0.000	0.0089
6	6.492	7633	444	PB +	0.000	0.0006

Total area = 1.28351E+009



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Area Percent Report

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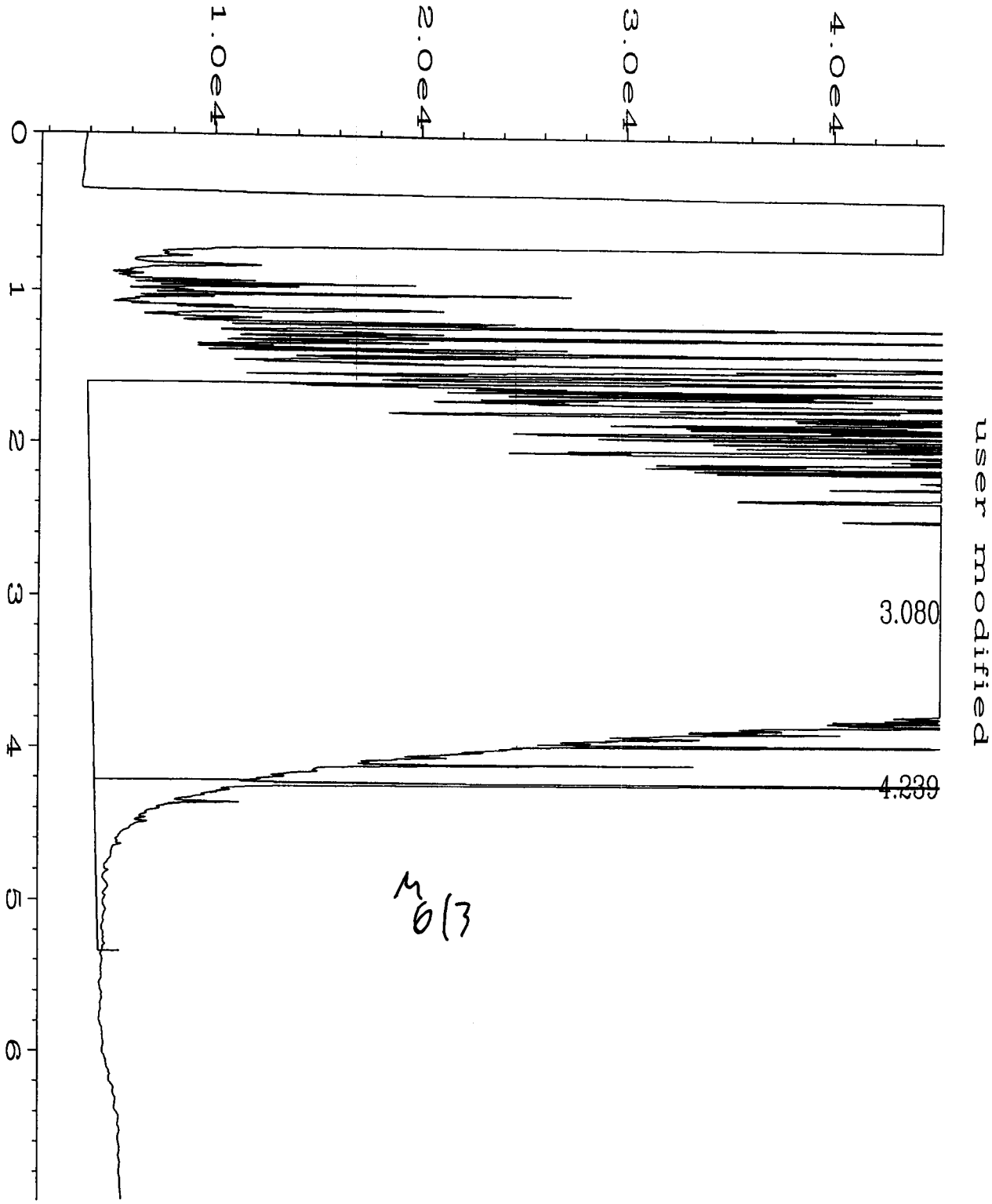
Data File Name : C:\HPCHEM\6\DATA\06-03-15\003R0201.D
Operator : mwdl
Instrument : GC #6
Sample Name : 500 Dx 44-94C
Run Time Bar Code:
Acquired on : 03 Jun 15 09:10 AM
Report Created on: 03 Jun 15 09:20 AM

Page Number : 1
Vial Number : 3
Injection Number : 1
Sequence Line : 2
Instrument Method: DX.MTH
Analysis Method : istnddx.MTH

Sig. 2 in C:\HPCHEM\6\DATA\06-03-15\003R0201.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	3.313	4214	4729	BB	0.015	1.0021
2	3.359	13580	8345	BB	0.027	3.2292
3	3.404	51972	101163	BB	0.009	12.3581
4	3.452	122734	273073	BB	0.011	29.1842
5	3.530	14016	10570	BB	0.022	3.3328
6	3.557	34376	78877	BB	0.007	8.1742
7	3.617	1843	4141	BB	0.007	0.4383
8	3.668	8032	8330	BB	0.016	1.9100
9	3.703	27038	55580	BB	0.008	6.4292
10	3.791	5852	2343	BB	0.042	1.3915
11	3.844	17124	32395	BB	0.009	4.0718
12	3.894	3547	3801	BB	0.016	0.8433
13	3.929	2614	2838	BB	0.015	0.6215
14	3.978	8215	16447	BB	0.008	1.9535
15	4.108	4474	8251	BB	0.009	1.0639
16	4.234	99767	189605	BB	0.019	23.7231
17	4.359	856	1128	BB	0.013	0.2037
18	4.461	186	283	BB	0.011	0.0443
19	4.631	107	163	BB	0.015	0.0254

Last modified 4/27/15 mwdl			TPHDSL.XLS				
Data File Name	: C:\HPCHEM\6\DATA\06-03-15\003F0201.D						
Operator	: mwdl				Page Number	: 1	
Instrument	: GC #6				Vial Number	: 3	
Sample Name	: 500 Dx 44-94C				Injection Number	: 1	
Run Time Bar Code:					Sequence Line	: 2	
Acquired on	42158	0.3819444					
Report Created on: 03 Jun 15 09:20 AM					Analysis Method	: DX.MTH	
Surr / IS	**Ret Time window**		**Area**	**Avg. Area**			
Triacontane						Calibrated	
0	>4.86	<4.90	0	1.00E+05		2/1/11	
Pentacosane							
91	>4.16	<4.3	99767	1.09E+05		12/31/14	
o-Terphenyl							
99	>3.38	<3.47	122734	1.24E+05		12/31/14	
Results			Area	Resp. factor		Calibrated	
Diesel, start C10 - start C25							
498	>1.59	<4.16	4.94E+06	9.92E+03		12/31/14	
NWTPH-DX, start C10 - end C36							
487	>1.59	<6.0	4949963	1.02E+04		12/31/14	
Motor Oil, start C25 - end C36							
2	>4.16	<6.0	14627	6.49E+03		12/31/14	
Heavy Oil, start C17 - end C36							
268	>2.99	<6.0	2338353	8.73E+03		12/31/14	
Mineral Oil							
422	>2.99	<6.0	2338353	5.55E+03		1/8/15	
Stoddard, start C8 - end C11							
293	>0.89	<2.99	2924816	9.99E+03		1/16/15	
Kerosene, start C8 - end C20							
790	>0.89	<4.16	5248542	6.65E+03		1/10/13	
C24-C38							
-11	>10.45	<19.8	-99767	9.42E+03		1/27/11	



Data File Name	: C:\HPCHEM\6\DATA\06-03-15\005F0701.D		
Operator	: mwdl	Page Number	: 1
Instrument	: GC #6	Vial Number	: 5
Sample Name	: 1000 Dx 44-172C	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 7
Acquired on	: 03 Jun 15 02:57 PM	Instrument Method	: DX.MTH
Report Created on:	04 Jun 15 09:21 AM	Analysis Method	: END.MTH

Area Percent Report

Data File Name : C:\HPCHEM\6\DATA\06-03-15\005F0701.D
Operator : mwdl
Instrument : GC #6
Sample Name : 1000 Dx 44-172C
Run Time Bar Code:
Acquired on : 03 Jun 15 02:57 PM
Report Created on: 04 Jun 15 09:21 AM

Page Number : 1
Vial Number : 5
Injection Number : 1
Sequence Line : 7
Instrument Method: DX.MTH
Analysis Method : END.MTH

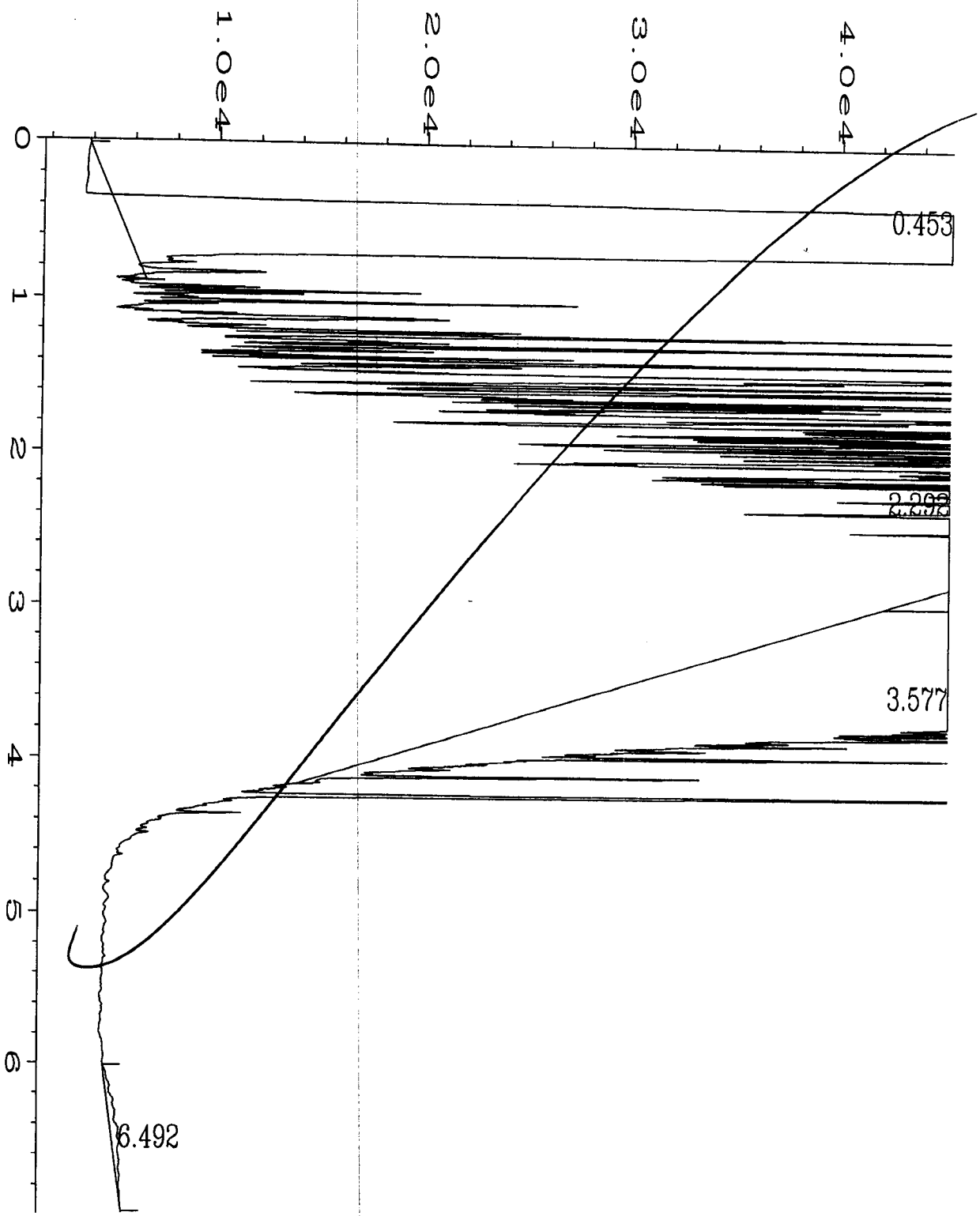
Sig. 1 in C:\HPCHEM\6\DATA\06-03-15\005F0701.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	3.080	1.02067E+007	345511	MF	0.492	97.9463
2	4.239	214009	232914	FM	0.015	2.0537

Total area = 1.04207E+007

User Modified

M 6/3



Data File Name : C:\HPCHEM\6\DATA\06-03-15\005F0701.D
Operator : mwdl
Instrument : GC #6
Sample Name : 1000 Dx 44-172C
Run Time Bar Code:
Acquired on : 03 Jun 15 02:57 PM
Report Created on: 03 Jun 15 03:07 PM

Page Number : 1
Vial Number : 5
Injection Number : 1
Sequence Line : 7
Instrument Method: DX.MTH
Analysis Method : DX.MTH

Area Percent Report

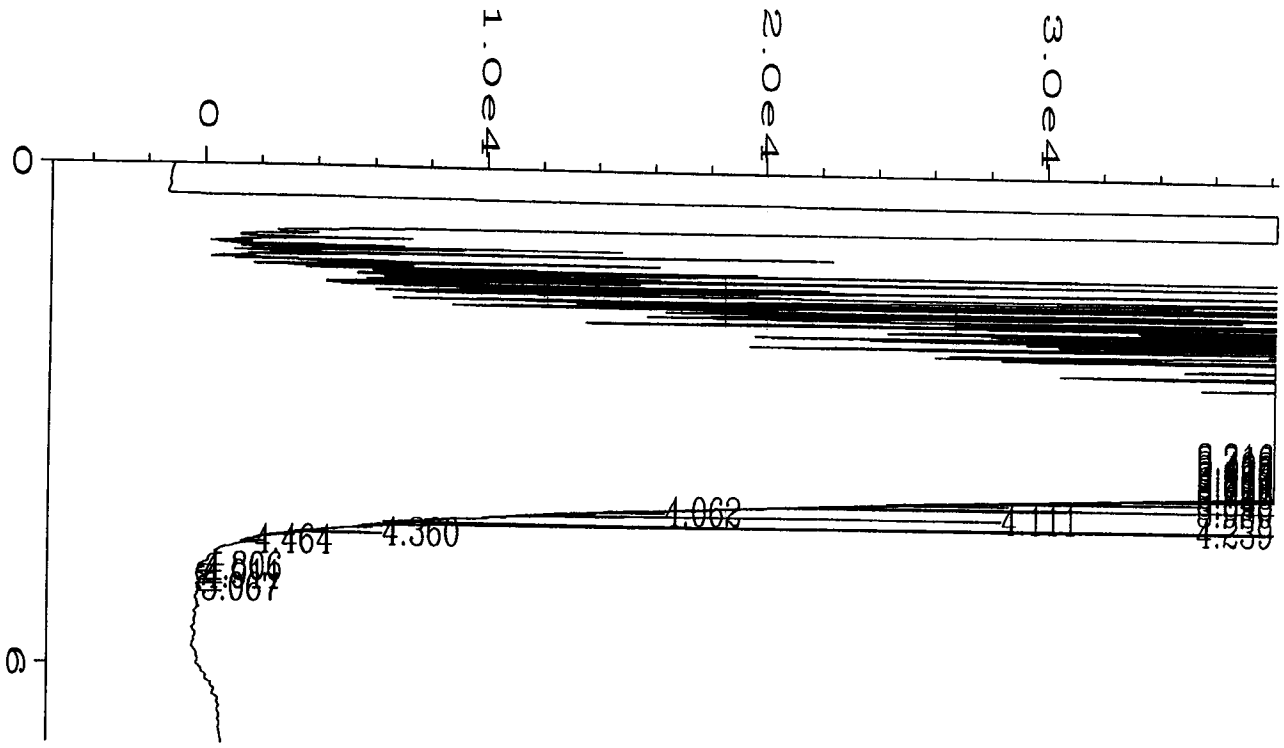
Data File Name : C:\HPCHEM\6\DATA\06-03-15\005F0701.D
Operator : mwdl
Instrument : GC #6
Sample Name : 1000 Dx 44-172C
Run Time Bar Code:
Acquired on : 03 Jun 15 02:57 PM
Report Created on: 03 Jun 15 03:07 PM

Page Number : 1
Vial Number : 5
Injection Number : 1
Sequence Line : 7
Instrument Method: DX.MTH
Analysis Method : DX.MTH

Sig. 1 in C:\HPCHEM\6\DATA\06-03-15\005F0701.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.453	1.30522E+009	9.82513E+007	BVA	0.221	99.7008
2	2.292	677257	245634	BV +	0.000	0.0517
3	3.577	3228247	312298	VVA	0.172	0.2466
4	6.492	11221	453	PB +	0.000	0.0009

Total area = 1.30914E+009



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Area Percent Report

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Data File Name : C:\HPCHEM\6\DATA\06-03-15\005R0701.D
Operator : mwdl
Instrument : GC #6
Sample Name : 1000 Dx 44-172C
Run Time Bar Code:
Acquired on : 03 Jun 15 02:57 PM
Report Created on: 03 Jun 15 03:07 PM

Page Number : 1
Vial Number : 5
Injection Number : 1
Sequence Line : 7
Instrument Method: DX.MTH
Analysis Method : istnddx.MTH

Sig. 2 in C:\HPCHEM\6\DATA\06-03-15\005R0701.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	3.316	8495	12523	BB	0.011	1.3464
2	3.348	9344	13310	BB	0.012	1.4809
3	3.408	105494	185974	BB	0.009	16.7196
4	3.455	130875	251065	BB	0.009	20.7421
5	3.494	11537	11068	BB	0.017	1.8284
6	3.532	22063	19991	BB	0.018	3.4967
7	3.560	70784	160538	BB	0.007	11.2184
8	3.619	3848	6803	BB	0.009	0.6098
9	3.671	15360	14445	BB	0.018	2.4344
10	3.706	54538	109353	BB	0.008	8.6437
11	3.753	6770	3792	BB	0.030	1.0729
12	3.846	35457	64926	BB	0.009	5.6195
13	3.896	7092	8677	BB	0.014	1.1239
14	3.980	18019	35297	BB	0.012	2.8558
15	4.062	3796	2451	BB	0.026	0.6016
16	4.111	9922	18021	BB	0.009	1.5725
17	4.239	114153	233347	BB	0.008	18.0918
18	4.360	1748	3155	BB	0.014	0.2770
19	4.464	259	357	BB	0.012	0.0411
20	4.806	296	238	BB	0.021	0.0470

21	4.911	809	249	BB	0.043	0.1282
22	5.067	305	122	BB	0.033	0.0483

Total area = 630961

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Last modified 4/27/15 mwdl TPHDSL.XLS

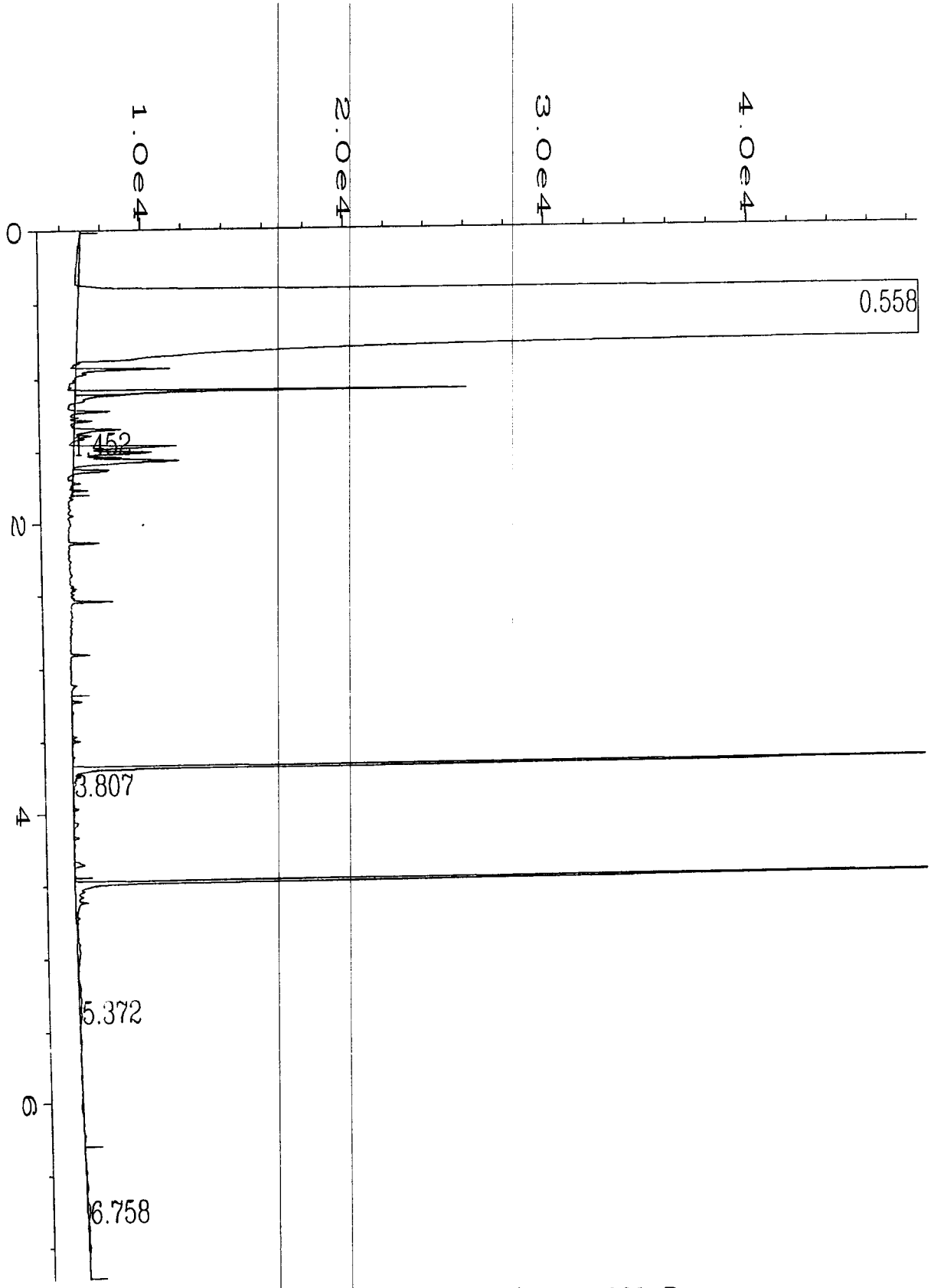
Data File Name : C:\HPCHEM\6\DATA\06-03-15\005F0701.D
Operator : mwdl
Instrument : GC #6
Sample Name : 1000 Dx 44-172C
Run Time Bar Code:
Acquired on 42158 0.6229167
Report Created on: 03 Jun 15 03:07 PM

Page Number : 1
Vial Number : 5
Injection Number : 1
Sequence Line : 7
Analysis Method : DX.MTH

Surr / IS	Ret Time window		Area	Avg. Area		
Triacontane						Calibrated
0	>4.86	<4.90	0	1.00E+05		2/1/11
Pentacosane						
105	>4.16	<4.3	114153	1.09E+05		12/31/14
o-Terphenyl						
106	>3.38	<3.47	130875	1.24E+05		12/31/14
Results			Area	Resp. factor		Calibrated
Diesel, start C10 - start C25			10075825			
1016 381	>1.59	<4.16	3.77E+06	9.92E+03		12/31/14
NWTPH-DX, start C10 - end C36			10175672			
998 360	>1.59	<6.0	3660476	1.02E+04		12/31/14
Motor Oil, start C25 - end C36						
-18	>4.16	<6.0	-114153	6.49E+03		12/31/14
Heavy Oil, start C17 - end C36						
342	>2.99	<6.0	2983219	8.73E+03		12/31/14
Mineral Oil						
538	>2.99	<6.0	2983219	5.55E+03		1/8/15
Stoddard, start C8 - end C11						
68	>0.89	<2.99	677257	9.99E+03		1/16/15
Kerosene, start C8 - end C20						
568	>0.89	<4.16	3774629	6.65E+03		1/10/13
C24-C38						
-12	>10.45	<19.8	-114153	9.42E+03		1/27/11

NWTPH-Dx
Quality Assurance Data

F&B Project 506026



Data File Name : C:\HPCHEM\1\DATA\06-03-15\032F1001.D
Operator : mwdl
Instrument : GC1
Sample Name : 05-1045 mb
Run Time Bar Code:
Acquired on : 03 Jun 15 03:41 PM
Report Created on: 03 Jun 15 03:50 PM

Page Number : 1
Vial Number : 32
Injection Number : 1
Sequence Line : 10
Instrument Method: DX.MTH
Analysis Method : DX.MTH

Area Percent Report

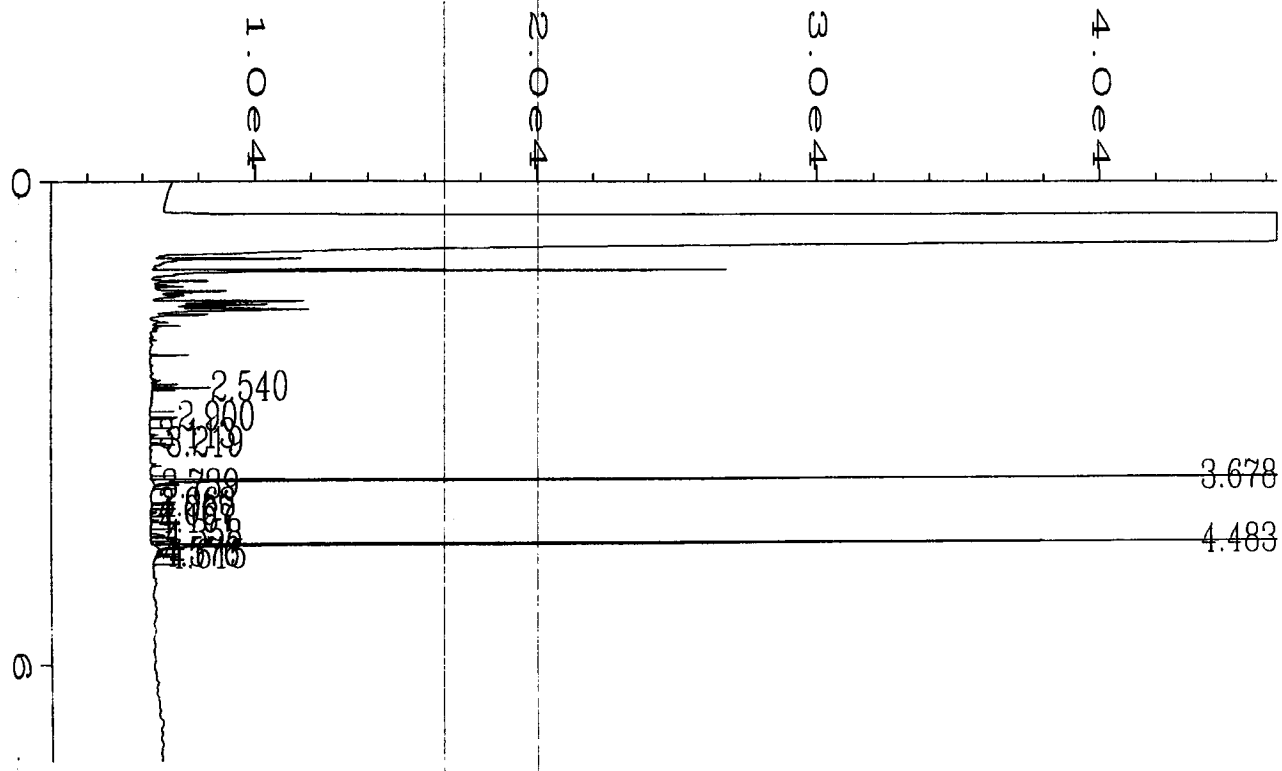
Data File Name : C:\HPCHEM\1\DATA\06-03-15\032F1001.D
Operator : mwdl
Instrument : GC1
Sample Name : 05-1045 mb
Run Time Bar Code:
Acquired on : 03 Jun 15 03:41 PM
Report Created on: 03 Jun 15 03:50 PM

Page Number : 1
Vial Number : 32
Injection Number : 1
Sequence Line : 10
Instrument Method: DX.MTH
Analysis Method : DX.MTH

Sig. 1 in C:\HPCHEM\1\DATA\06-03-15\032F1001.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.558	1.02206E+009	8.21665E+007	BVA	0.207	99.9794
2	1.452	28827	5200	VV +	0.000	0.0028
3	3.807	93548	180788	PVA	0.009	0.0092
4	5.372	86306	153515	PV +	0.000	0.0084
5	6.758	2113	131	PB +	0.000	0.0002

Total area = 1.02227E+009



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Area Percent Report

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Data File Name : C:\HPCHEM\1\DATA\06-03-15\032R1001.D
Operator : mwdl
Instrument : GC1
Sample Name : 05-1045 mb
Run Time Bar Code:
Acquired on : 03 Jun 15 03:41 PM
Report Created on: 03 Jun 15 03:50 PM

Page Number : 1
Vial Number : 32
Injection Number : 1
Sequence Line : 10
Instrument Method: DX.MTH
Analysis Method : istnddx.MTH

Sig. 2 in C:\HPCHEM\1\DATA\06-03-15\032R1001.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	2.540	1186	2154	BBAS	0.014	0.6828
2	2.900	497	996	BB	0.008	0.2865
3	3.113	221	289	BB	0.014	0.1271
4	3.219	250	562	BB	0.007	0.1439
5	3.678	89295	178878	BB	0.008	51.4179
6	3.739	182	290	BB	0.010	0.1048
7	3.963	141	264	BB	0.009	0.0811
8	4.067	357	233	BB	0.025	0.2053
9	4.167	172	290	BB	0.014	0.0993
10	4.358	669	532	BB	0.025	0.3853
11	4.483	80078	158883	BB	0.008	46.1109
12	4.576	182	180	BB	0.017	0.1047
13	4.615	435	467	BB	0.025	0.2504

Total area = 173664

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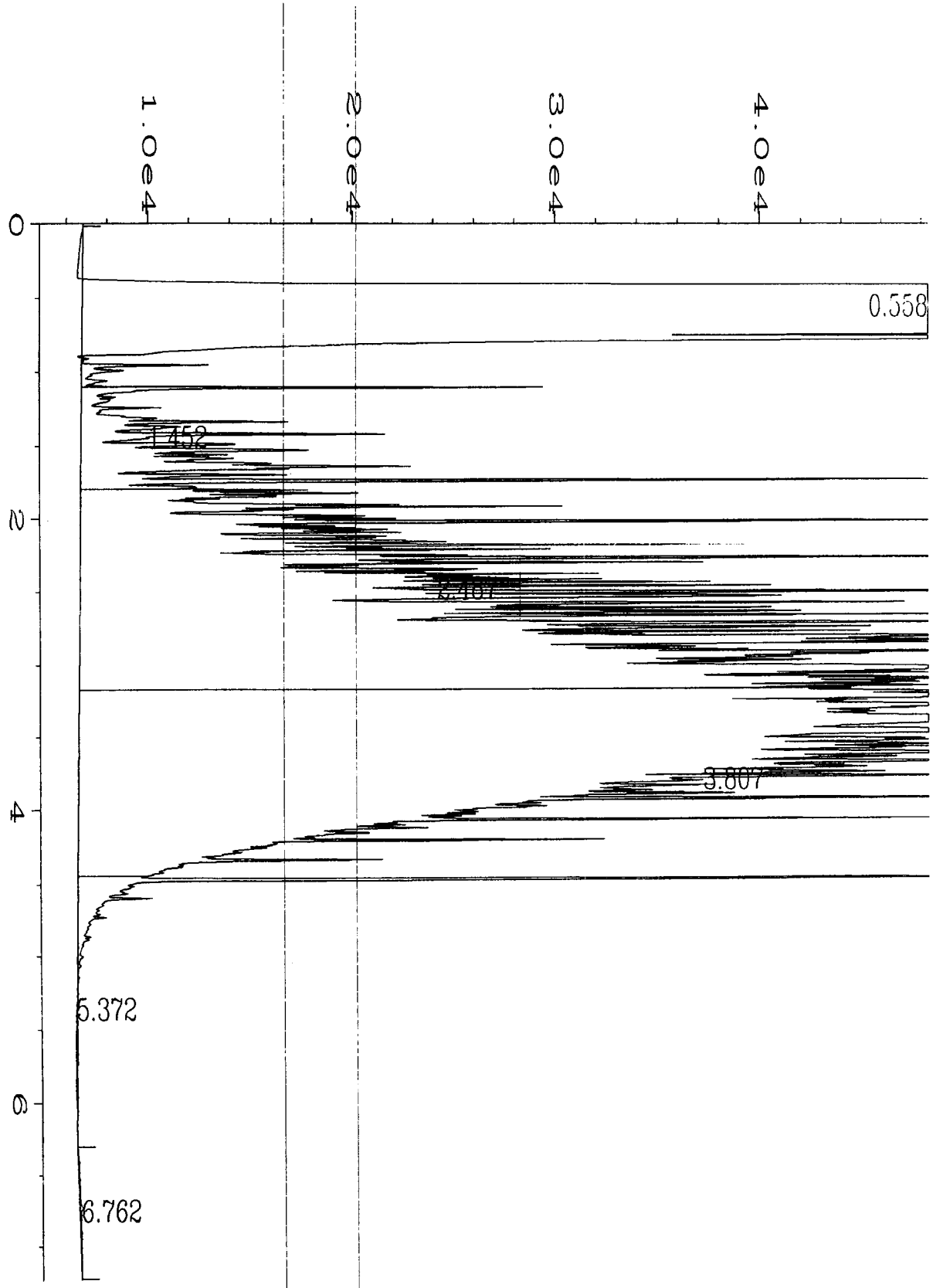
Last modified 4/21/15 mwdl			TPHDSL.XLS			
Data File Name	: C:\HPCHEM\1\DATA\06-03-15\032F1001.D					
Operator	: mwdl			Page Number	: 1	
Instrument	: GC1			Vial Number	: 32	
Sample Name	: 05-1045 mb			Injection Number	: 1	
Run Time Bar Code:				Sequence Line	: 10	
Acquired on	6/3/15	15:41		Instrume	DX.MTH	
Report Created on: 03 Jun 15 03:50 PM				Analysis Method	: DX.MTH	
Surr / IS	**Ret Time window**		**Area**	**Avg. Area**		
Triacontane						Calibrated
0	>5.22	<5.26	0	8.24E+04		9/25/13
Pentacosane						
88	>4.44	<4.53	80078	9.11E+04		1/14/15
o-Terphenyl						
89	>3.63	<3.72	89295	1.00E+05		1/14/15
Results			Area	Resp. factor		Calibrated
Diesel, start C10 - start C25						
1	>1.8	<4.44	4.25E+03	7.66E+03		1/14/15
NWTPH-DX, start C10 - end C36						
1	>1.8	<6.3	10480	7.75E+03		1/14/15
Motor Oil, start C25 - end C36						
1	>4.44	<6.3	6227	5.16E+03		1/14/15
Heavy Oil, start C17- end C36						
2	>3.17	<6.3	10480	6.80E+03		1/14/15
C12-C24						
1	>1.8	<4.44	4253	6.37E+03		6/22/11
Stoddard, start C8 - end C11						
3	>1.1	<3.17	28827	8.41E+03		1/16/15
Kerosene C8-C20						
5	>1.1	<4.44	33080	6.28E+03		7/5/12
Bunker C						
2	>1.8	<6.3	10481	4.27E+03		9/19/11
Calibration Info:						
Stoddard (8-11)	3					
TPHD (8-36)	1					
TPHDX (8-36)	1					
Motor Oil (8-36	2					



Data File Name	: C:\HPCHEM\1\DATA\06-03-15\033F1001.D		
Operator	: mwdl	Page Number	: 1
Instrument	: GC1	Vial Number	: 33
Sample Name	: 05-1045 lcs	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 10
Acquired on	: 03 Jun 15 03:50 PM	Instrument Method	: DX.MTH
Report Created on	: 03 Jun 15 04:01 PM	Analysis Method	: DX.MTH

Area Percent Report

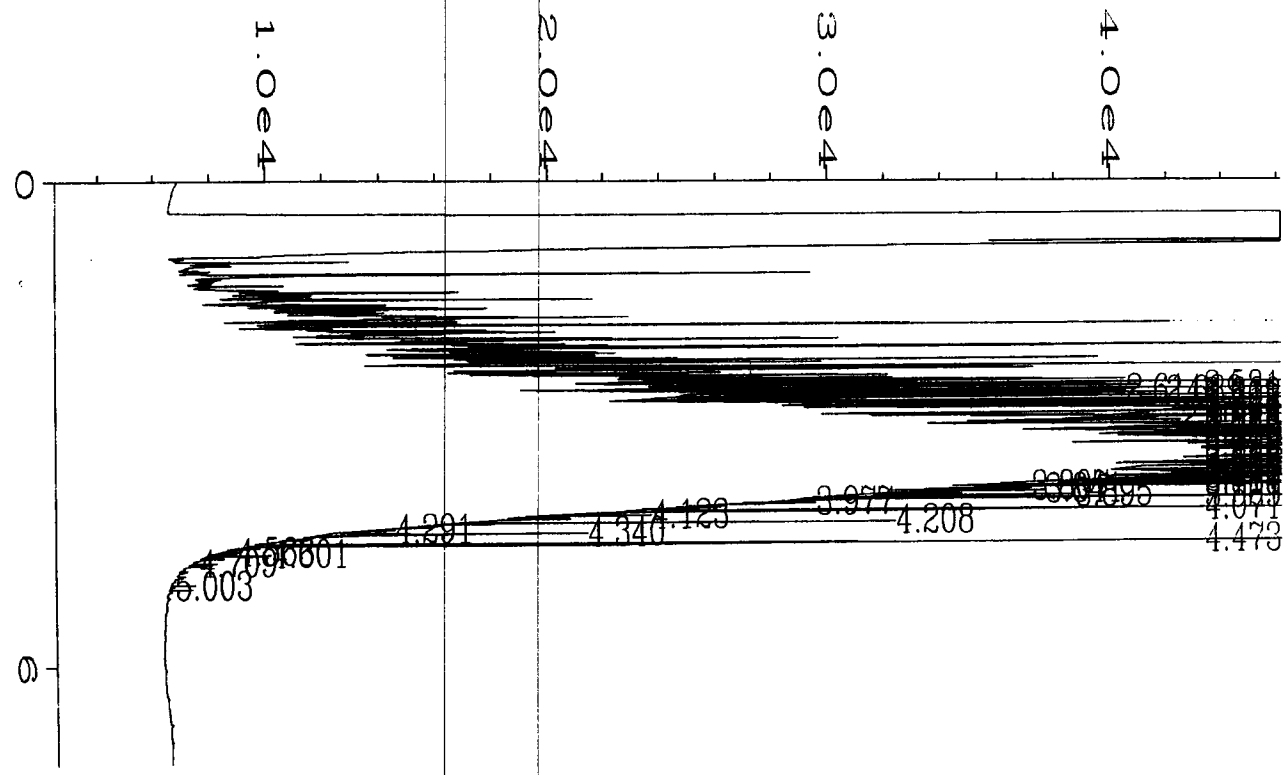
Data File Name : C:\HPCHEM\1\DATA\06-03-15\033F1001.D
Operator : mwdl
Instrument : GC1
Sample Name : 05-1045 lcs
Run Time Bar Code:
Acquired on : 03 Jun 15 03:50 PM
Report Created on: 03 Jun 15 04:01 PM

Page Number : 1
Vial Number : 33
Injection Number : 1
Sequence Line : 10
Instrument Method: DX.MTH
Analysis Method : DX.MTH

Sig. 1 in C:\HPCHEM\1\DATA\06-03-15\033F1001.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.558	1.06921E+009	8.33768E+007	BV +	0.000	99.5469
2	1.452	218377	51864	VV +	0.000	0.0203
3	2.487	2089388	173443	VVA	0.201	0.1945
4	3.807	2426255	223629	VVA	0.181	0.2259
5	5.372	130487	173586	VB +	0.000	0.0121
6	6.762	2392	138	BB +	0.000	0.0002

Total area = 1.07408E+009



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Area Percent Report

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Data File Name : C:\HPCHEM\1\DATA\06-03-15\033R1001.D
Operator : mwdl
Instrument : GC1
Sample Name : 05-1045 lcs
Run Time Bar Code:
Acquired on : 03 Jun 15 03:50 PM
Report Created on: 03 Jun 15 04:01 PM

Page Number : 1
Vial Number : 33
Injection Number : 1
Sequence Line : 10
Instrument Method: DX.MTH
Analysis Method : istnddx.MTH

Sig. 2 in C:\HPCHEM\1\DATA\06-03-15\033R1001.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	2.581	17958	24571	BB	0.012	2.0522
2	2.614	8627	15545	BB	0.009	0.9859
3	2.639	13457	17770	BB	0.013	1.5379
4	2.669	20551	29505	BB	0.012	2.3486
5	2.717	54090	111091	BB	0.008	6.1815
6	2.748	10394	16531	BB	0.010	1.1879
7	2.815	11164	13670	BB	0.014	1.2758
8	2.844	13660	32081	BB	0.007	1.5611
9	2.919	36476	122739	BB	0.011	4.1685
10	2.978	3753	6167	BB	0.010	0.4290
11	3.025	22641	16076	BB	0.023	2.5875
12	3.069	5728	8930	BB	0.011	0.6546
13	3.110	68824	144150	BB	0.008	7.8653
14	3.160	9248	9165	BB	0.017	1.0569
15	3.200	25585	45720	BB	0.009	2.9239
16	3.292	86961	120246	BB	0.012	9.9381
17	3.370	8540	10268	BB	0.014	0.9759
18	3.416	8365	10239	BB	0.014	0.9560
19	3.463	48219	111880	BB	0.007	5.5105
20	3.533	12618	5191	BB	0.033	1.4420

21	3.565	14758	10940	BB	0.026	1.6866
22	3.626	48298	95556	BB	0.008	5.5196
23	3.677	97303	198826	BB	0.008	11.1200
24	3.717	6756	6412	BB	0.018	0.7721
25	3.754	9727	10192	BB	0.015	1.1116
26	3.780	32804	72392	BB	0.008	3.7489
27	3.807	2588	3146	BB	0.014	0.2958
28	3.841	4273	5603	BB	0.013	0.4883
29	3.895	9047	8987	BB	0.017	1.0339
30	3.929	25702	53007	BB	0.008	2.9372
31	3.977	2019	2460	BB	0.014	0.2307
32	4.071	16233	30846	BB	0.009	1.8551
33	4.123	3447	4019	BB	0.014	0.3939
34	4.208	9265	17035	BB	0.009	1.0589
35	4.291	2558	1020	BB	0.042	0.2924
36	4.340	5927	9656	BB	0.010	0.6774
37	4.473	94479	176484	BB	0.015	10.7973
38	4.563	1163	699	BB	0.028	0.1329
39	4.601	1485	2346	BB	0.011	0.1697
40	4.709	171	307	BB	0.009	0.0195
41	5.003	170	182	BB	0.019	0.0194

Total area = 875027

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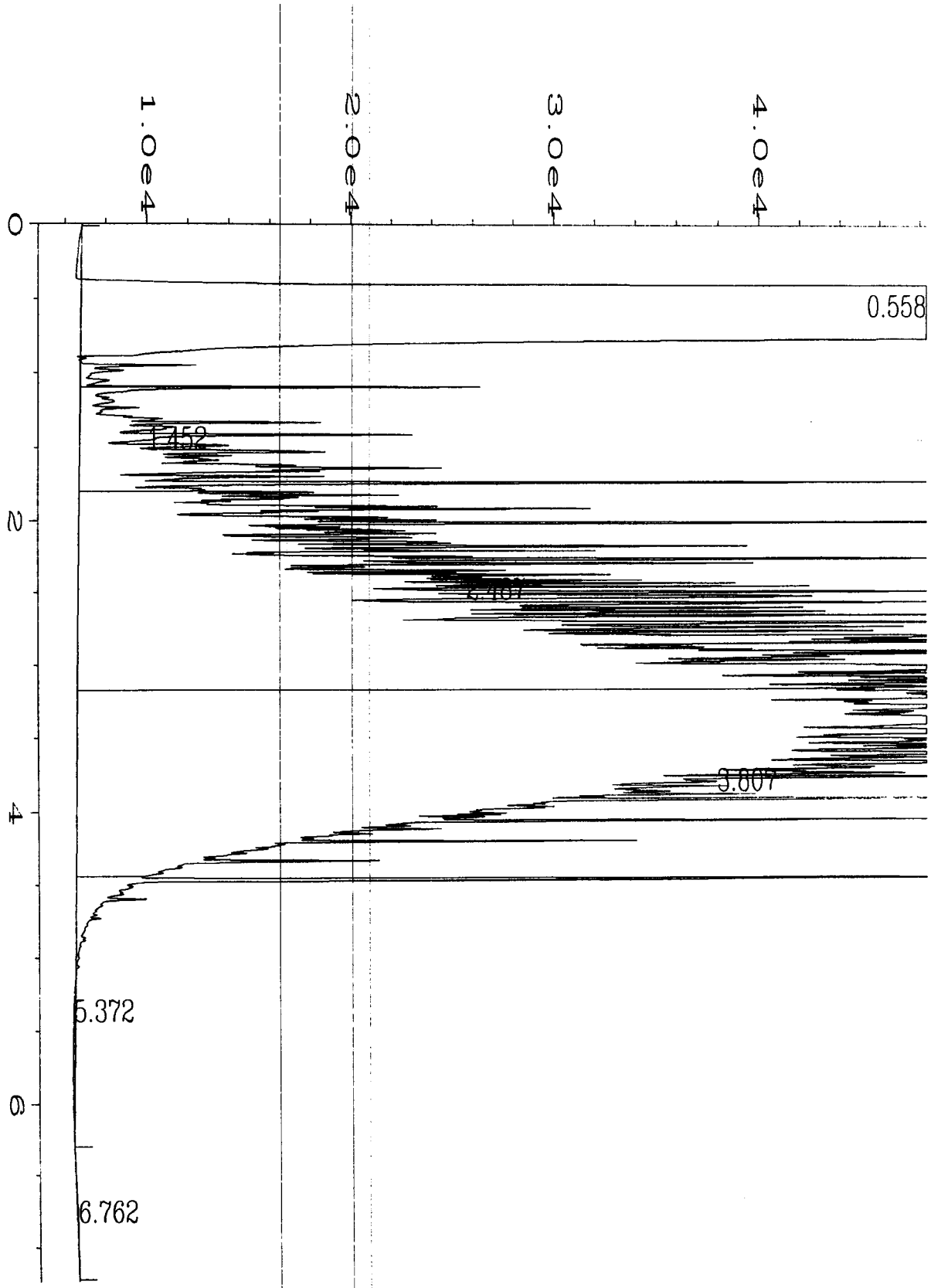
Last modified 4/21/15 mwdl			TPHDSL.XLS			
Data File Name : C:\HPCHEM\1\DATA\06-03-15\033F1001.D						
Operator : mwdl				Page Number	: 1	
Instrument : GC1				Vial Number	: 33	
Sample Name : 05-1045 lcs				Injection Number	: 1	
Run Time Bar Code:				Sequence Line	: 10	
Acquired on	6/3/15	15:50		Instrume	DX.MTH	
Report Created on: 03 Jun 15 04:01 PM				Analysis Method	: DX.MTH	
Surr / IS	**Ret Time window**		**Area**	**Avg. Area**		
Triacontane						Calibrated
0	>5.22	<5.26	0	8.24E+04		9/25/13
Pentacosane						
104	>4.44	<4.53	94479	9.11E+04		1/14/15
o-Terphenyl						
97	>3.63	<3.72	97303	1.00E+05		1/14/15
Results			Area	Resp. factor		Calibrated
Diesel, start C10 - start C25						
577	>1.8	<4.44	4.42E+06	7.66E+03		1/14/15
NWTPH-DX, start C10 - end C36						
575	>1.8	<6.3	4454347	7.75E+03		1/14/15
Motor Oil, start C25 - end C36						
7	>4.44	<6.3	36007	5.16E+03		1/14/15
Heavy Oil, start C17- end C36						
348	>3.17	<6.3	2364959	6.80E+03		1/14/15
C12-C24						
693	>1.8	<4.44	4418340	6.37E+03		6/22/11
Stoddard, start C8 - end C11						
274	>1.1	<3.17	2307765	8.41E+03		1/16/15
Kerosene C8-C20						
738	>1.1	<4.44	4636717	6.28E+03		7/5/12
Bunker C						
1044	>1.8	<6.3	4454348	4.27E+03		9/19/11
Calibration Info:						
Stoddard (8-11)	274					
TPHD (8-36)	309					
TPHDX (8-36)	305					
Motor Oil (8-36	458					



Data File Name	: C:\HPCHEM\1\DATA\06-03-15\034F1001.D		
Operator	: mwdl	Page Number	: 1
Instrument	: GC1	Vial Number	: 34
Sample Name	: 05-1045 lcsd	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 10
Acquired on	: 03 Jun 15 04:01 PM	Instrument Method	: DX.MTH
Report Created on:	03 Jun 15 04:12 PM	Analysis Method	: DX.MTH

Area Percent Report

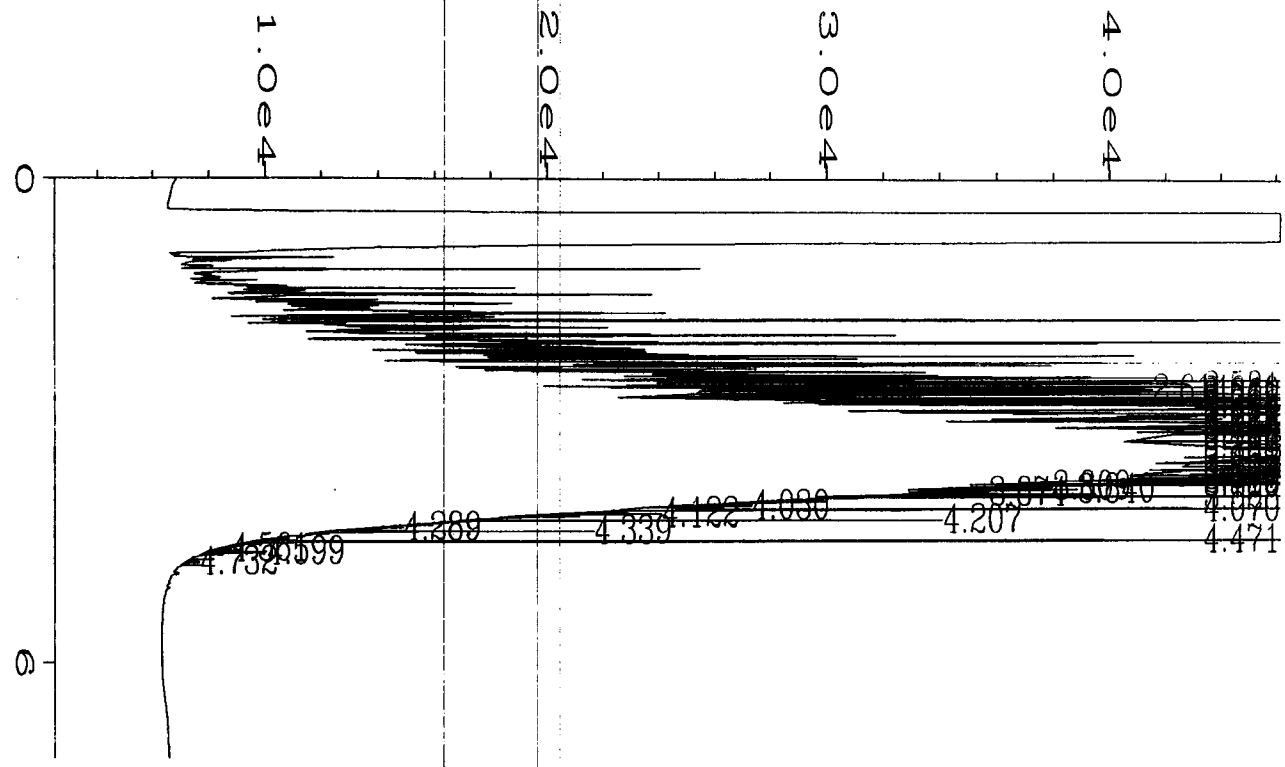
Data File Name : C:\HPCHEM\1\DATA\06-03-15\034F1001.D
Operator : mwdl
Instrument : GC1
Sample Name : 05-1045 lcsd
Run Time Bar Code:
Acquired on : 03 Jun 15 04:01 PM
Report Created on: 03 Jun 15 04:12 PM

Page Number : 1
Vial Number : 34
Injection Number : 1
Sequence Line : 10
Instrument Method: DX.MTH
Analysis Method : DX.MTH

Sig. 1 in C:\HPCHEM\1\DATA\06-03-15\034F1001.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.558	1.04498E+009	8.19117E+007	BV +	0.000	99.5207
2	1.452	231308	54139	VV +	0.000	0.0220
3	2.487	2163232	172190	VV +	0.000	0.2060
4	3.807	2509002	239963	VVA	0.174	0.2389
5	5.372	127387	189963	VV +	0.000	0.0121
6	6.762	1388	101	PB +	0.000	0.0001

Total area = 1.05002E+009



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Area Percent Report

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Data File Name : C:\HPCHEM\1\DATA\06-03-15\034R1001.D
Operator : mwdl
Instrument : GC1
Sample Name : 05-1045 lcsd
Run Time Bar Code:
Acquired on : 03 Jun 15 04:01 PM
Report Created on: 03 Jun 15 04:12 PM

Page Number : 1
Vial Number : 34
Injection Number : 1
Sequence Line : 10
Instrument Method: DX.MTH
Analysis Method : istnddx.MTH

Sig. 2 in C:\HPCHEM\1\DATA\06-03-15\034R1001.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	2.581	17485	24536	BB	0.012	1.9015
2	2.614	9206	16159	BB	0.009	1.0012
3	2.640	13743	18985	BB	0.012	1.4945
4	2.669	21194	30076	BB	0.012	2.3048
5	2.717	56226	110671	BB	0.008	6.1146
6	2.748	12060	18087	BB	0.011	1.3115
7	2.816	14523	17344	BB	0.014	1.5793
8	2.919	17306	125039	BB	0.002	1.8820
9	2.977	1361	5527	BB	0.004	0.1480
10	3.036	20529	14689	BB	0.023	2.2325
11	3.068	5947	8825	BB	0.011	0.6467
12	3.110	65149	137653	BB	0.008	7.0850
13	3.160	6559	7739	BB	0.014	0.7133
14	3.198	56914	47100	BB	0.020	6.1894
15	3.291	105111	131347	BB	0.013	11.4309
16	3.369	10132	9067	BB	0.020	1.1019
17	3.462	77926	119985	BB	0.011	8.4745
18	3.533	10933	7410	BB	0.025	1.1890
19	3.625	61444	102232	BB	0.010	6.6821
20	3.677	100993	209216	BB	0.008	10.9830

21	3.719	6703	5248	BB	0.021	0.7290
22	3.753	10395	11089	BB	0.015	1.1305
23	3.780	33994	76567	BB	0.007	3.6968
24	3.809	2589	3403	BB	0.013	0.2815
25	3.840	5024	6045	BB	0.014	0.5463
26	3.874	1649	2923	BB	0.009	0.1794
27	3.928	30220	51000	BB	0.010	3.2864
28	4.030	5691	3385	BB	0.028	0.6188
29	4.070	17962	34164	BB	0.012	1.9534
30	4.122	3595	4236	BB	0.016	0.3910
31	4.207	10388	17905	BB	0.010	1.1297
32	4.289	2519	1175	BB	0.036	0.2739
33	4.339	6302	9913	BB	0.013	0.6854
34	4.471	94857	187586	BB	0.008	10.3157
35	4.561	1066	523	BB	0.030	0.1160
36	4.599	1383	2229	BB	0.016	0.1504
37	4.732	460	567	BB	0.014	0.0500

Total area = 919537

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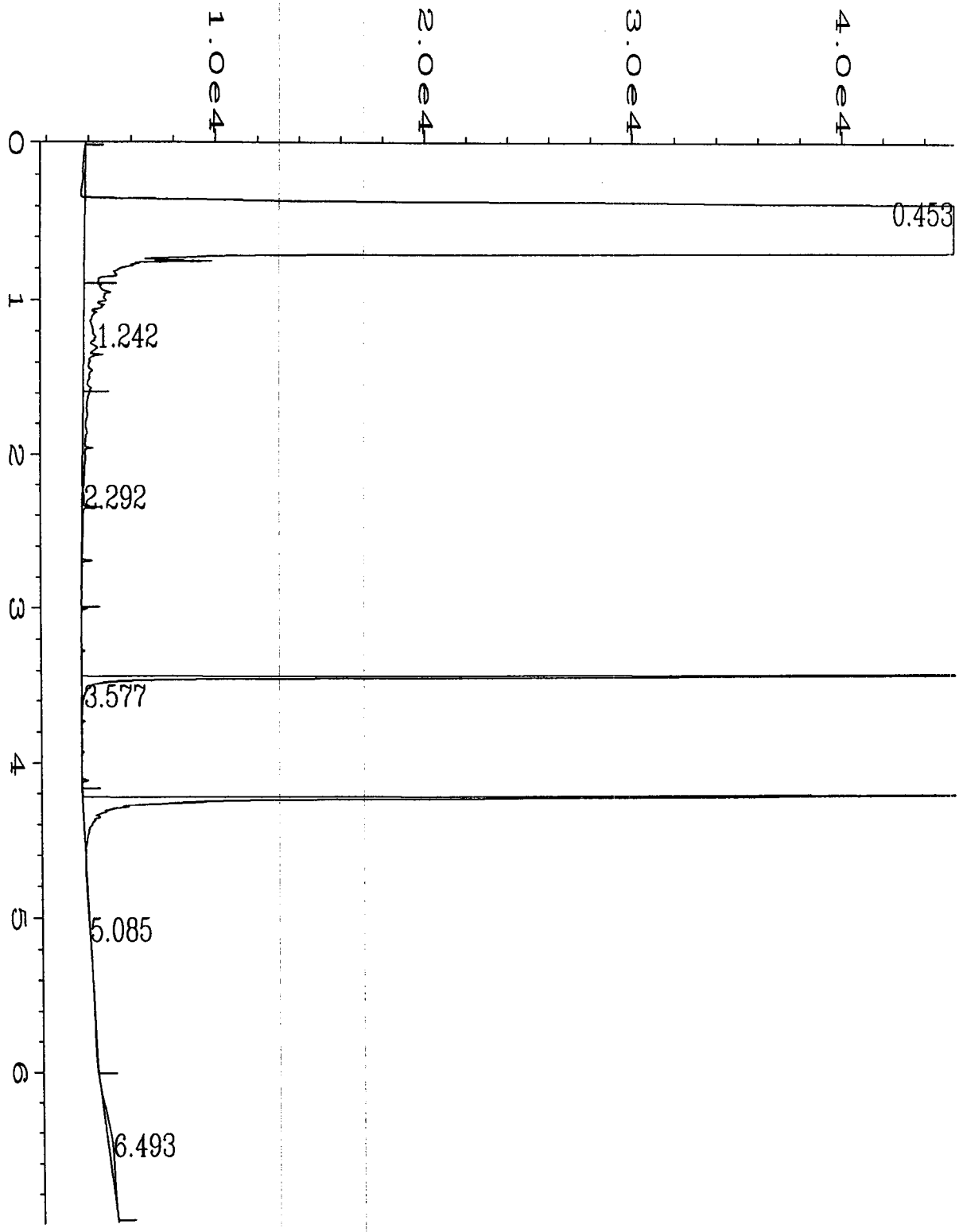
Last modified 4/21/15 mwdl			TPHDSL.XLS			
Data File Name : C:\HPCHEM\1\DATA\06-03-15\034F1001.D						
Operator : mwdl				Page Number	: 1	
Instrument : GC1				Vial Number	: 34	
Sample Name : 05-1045 lcsd				Injection Number	: 1	
Run Time Bar Code:				Sequence Line	: 10	
Acquired on	6/3/15	16:01		Instrume	DX.MTH	
Report Created on: 03 Jun 15 04:12 PM				Analysis Method	: DX.MTH	
Surr / IS	**Ret Time window**		**Area**	**Avg. Area**		
Triacontane						Calibrated
0	>5.22	<5.26	0	8.24E+04		9/25/13
Pentacosane						
104	>4.44	<4.53	94857	9.11E+04		1/14/15
o-Terphenyl						
101	>3.63	<3.72	100993	1.00E+05		1/14/15
Results			Area	Resp. factor		Calibrated
Diesel, start C10 - start C25						
597	>1.8	<4.44	4.57E+06	7.66E+03		1/14/15
NWTPH-DX, start C10 - end C36						
594	>1.8	<6.3	4603770	7.75E+03		1/14/15
Motor Oil, start C25 - end C36						
6	>4.44	<6.3	32529	5.16E+03		1/14/15
Heavy Oil, start C17- end C36						
359	>3.17	<6.3	2440538	6.80E+03		1/14/15
C12-C24						
717	>1.8	<4.44	4571241	6.37E+03		6/22/11
Stoddard, start C8 - end C11						
285	>1.1	<3.17	2394540	8.41E+03		1/16/15
Kerosene C8-C20						
765	>1.1	<4.44	4802549	6.28E+03		7/5/12
Bunker C						
1079	>1.8	<6.3	4603771	4.27E+03		9/19/11
Calibration Info:						
Stoddard (8-11)	285					
TPHD (8-36)	319					
TPHDX (8-36)	315					
Motor Oil (8-36	473					



Data File Name	: C:\HPCHEM\6\DATA\06-03-15\016F0301.D		
Operator	: mwdl	Page Number	: 1
Instrument	: GC #6	Vial Number	: 16
Sample Name	: 05-1044 mb	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 3
Acquired on	: 03 Jun 15 11:19 AM	Instrument Method:	DX.MTH
Report Created on:	03 Jun 15 11:29 AM	Analysis Method	: DX.MTH

Area Percent Report

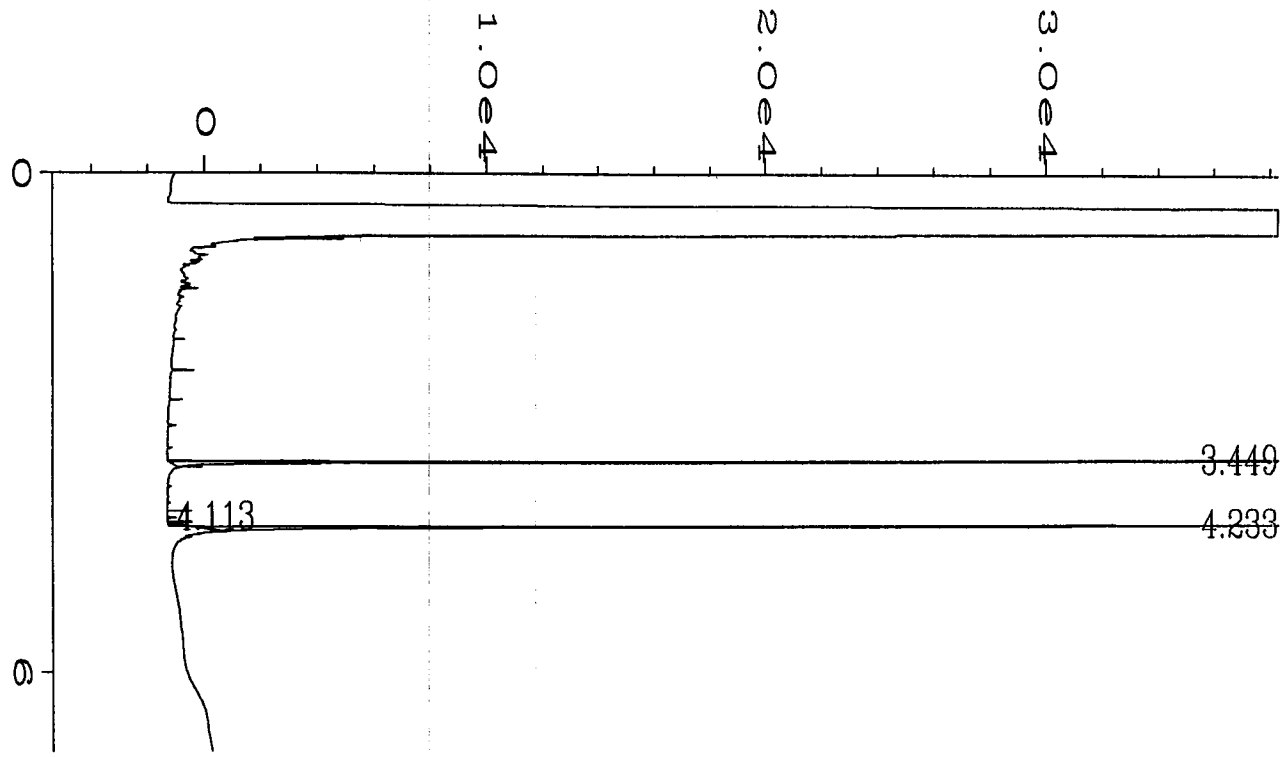
Data File Name : C:\HPCHEM\6\DATA\06-03-15\016F0301.D
Operator : mwdl
Instrument : GC #6
Sample Name : 05-1044 mb
Run Time Bar Code:
Acquired on : 03 Jun 15 11:19 AM
Report Created on: 03 Jun 15 11:29 AM

Page Number : 1
Vial Number : 16
Injection Number : 1
Sequence Line : 3
Instrument Method: DX.MTH
Analysis Method : DX.MTH

Sig. 1 in C:\HPCHEM\6\DATA\06-03-15\016F0301.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.453	1.2688E+009	9.84867E+007	BVA	0.215	99.9784
2	1.242	21318	1295	VV +	0.000	0.0017
3	2.292	7841	854	VB +	0.000	0.0006
4	3.577	137012	259768	BVA	0.009	0.0108
5	5.085	101307	163102	PV +	0.000	0.0080
6	6.493	6270	434	PB +	0.000	0.0005

Total area = 1.26907E+009



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Area Percent Report

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Data File Name : C:\HPCHEM\6\DATA\06-03-15\016R0301.D
Operator : mwdl
Instrument : GC #6
Sample Name : 05-1044 mb
Run Time Bar Code:
Acquired on : 03 Jun 15 11:19 AM
Report Created on: 03 Jun 15 11:29 AM

Page Number : 1
Vial Number : 16
Injection Number : 1
Sequence Line : 3
Instrument Method: DX.MTH
Analysis Method : istnddx.MTH

Sig. 2 in C:\HPCHEM\6\DATA\06-03-15\016R0301.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	3.449	134785	282417	BB	0.008	60.1612
2	4.113	261	327	BB	0.016	0.1165
3	4.233	88994	169311	BB	0.015	39.7222

Total area = 224041

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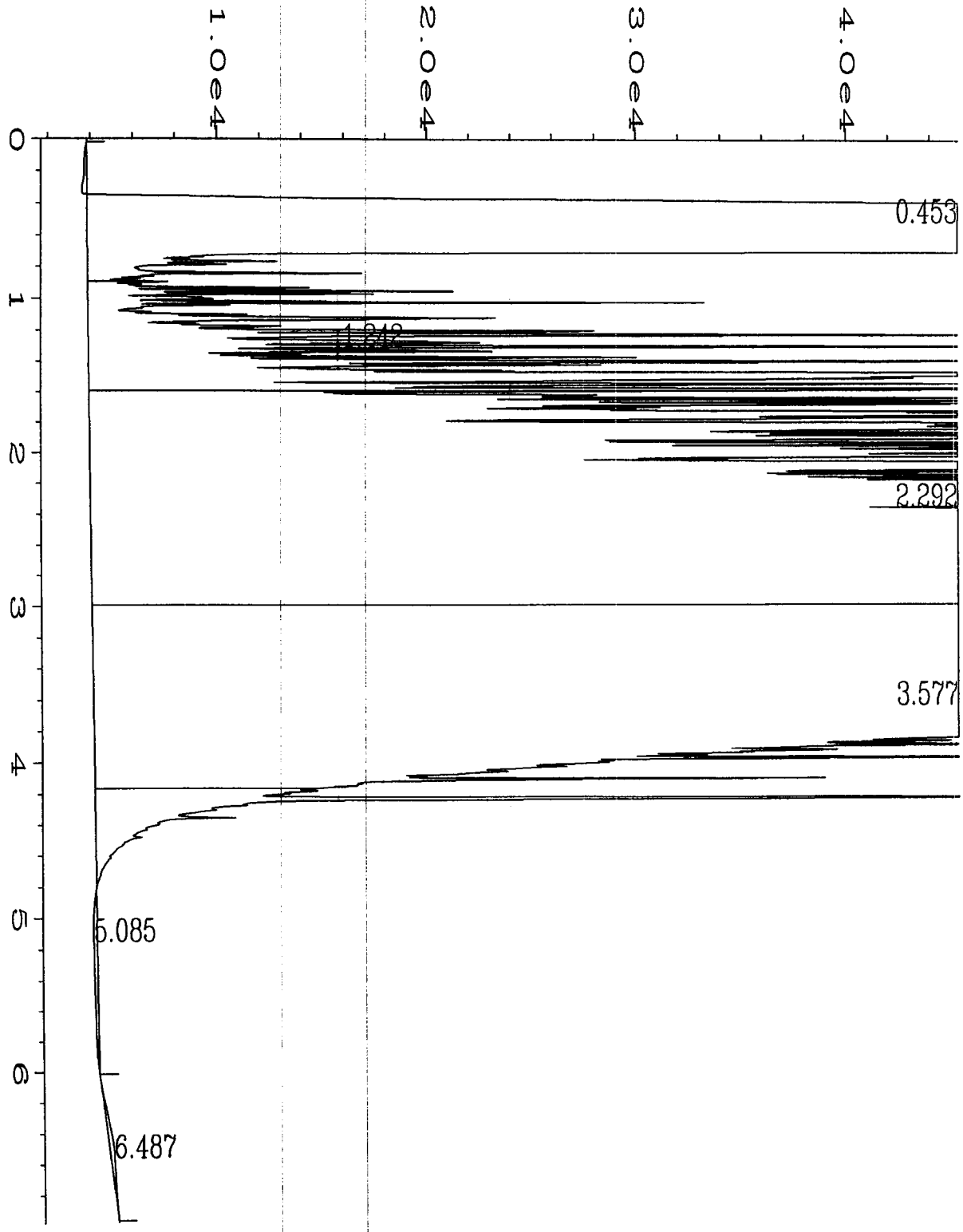
Last modified 4/27/15 mwdl			TPHDSL.XLS				
Data File Name	: C:\HPCHEM\6\DATA\06-03-15\016F0301.D						
Operator	: mwdl			Page Number		: 1	
Instrument	: GC #6			Vial Number		: 16	
Sample Name	: 05-1044 mb			Injection Number		: 1	
Run Time Bar Code:				Sequence Line		: 3	
Acquired on	42158	0.4715278					
Report Created on: 03 Jun 15 11:29 AM				Analysis Method		: DX.MTH	
Surr / IS	**Ret Time window**		**Area**	**Avg. Area**			
Triacontane						Calibrated	
0	>4.86	<4.90	0	1.00E+05		2/1/11	
Pentacosane							
82	>4.16	<4.3	88994	1.09E+05		12/31/14	
o-Terphenyl							
109	>3.38	<3.47	134785	1.24E+05		12/31/14	
Results			Area	Resp. factor		Calibrated	
Diesel, start C10 - start C25							
1	>1.59	<4.16	1.01E+04	9.92E+03		12/31/14	
NWTPH-DX, start C10 - end C36							
2	>1.59	<6.0	22381	1.02E+04		12/31/14	
Motor Oil, start C25 - end C36							
2	>4.16	<6.0	12313	6.49E+03		12/31/14	
Heavy Oil, start C17 - end C36							
2	>2.99	<6.0	14540	8.73E+03		12/31/14	
Mineral Oil							
3	>2.99	<6.0	14540	5.55E+03		1/8/15	
Stoddard, start C8 - end C11							
3	>0.89	<2.99	29159	9.99E+03		1/16/15	
Kerosene, start C8 - end C20							
5	>0.89	<4.16	31386	6.65E+03		1/10/13	
C24-C38							
-9	>10.45	<19.8	-88994	9.42E+03		1/27/11	



Data File Name	: C:\HPCHEM\6\DATA\06-03-15\017F0301.D		
Operator	: mwdl	Page Number	: 1
Instrument	: GC #6	Vial Number	: 17
Sample Name	: 05-1044 lcs	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 3
Acquired on	: 03 Jun 15 11:30 AM	Instrument Method:	DX.MTH
Report Created on:	03 Jun 15 11:40 AM	Analysis Method	: DX.MTH

Area Percent Report

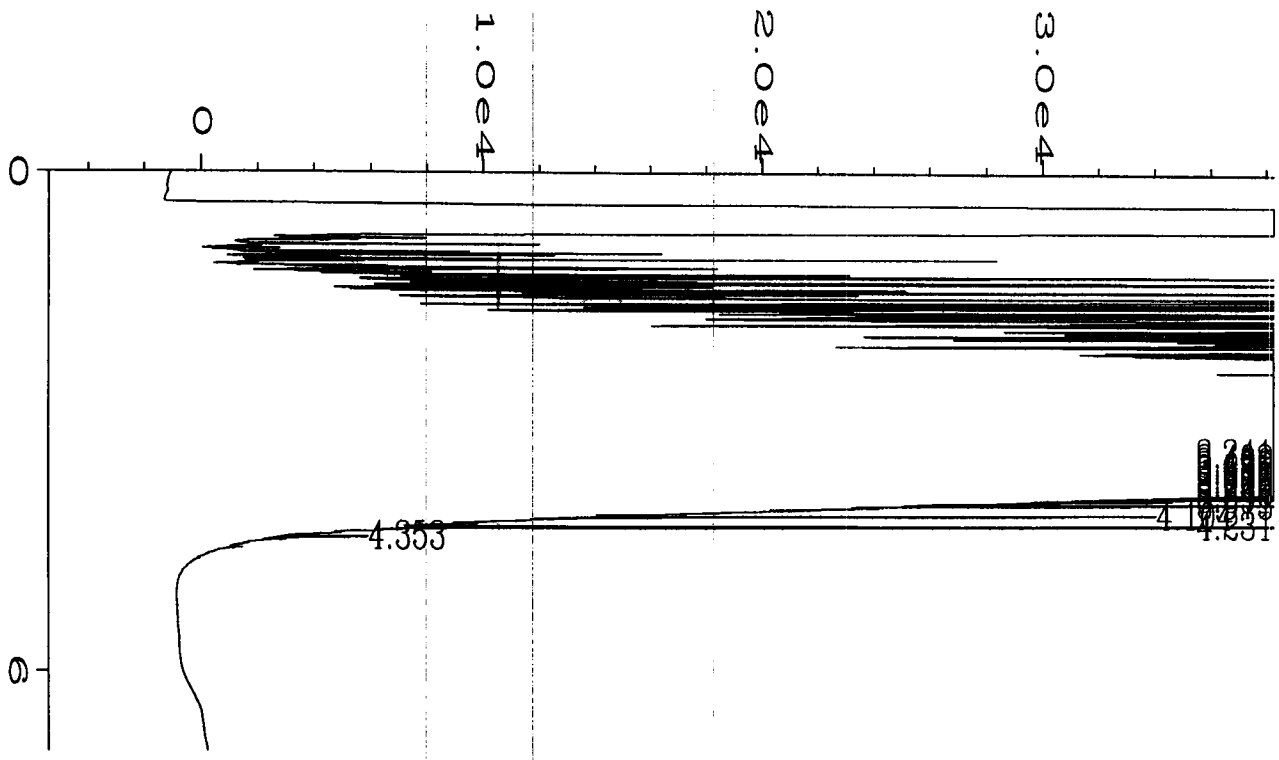
Data File Name : C:\HPCHEM\6\DATA\06-03-15\017F0301.D
Operator : mwdl
Instrument : GC #6
Sample Name : 05-1044 lcs
Run Time Bar Code:
Acquired on : 03 Jun 15 11:30 AM
Report Created on: 03 Jun 15 11:40 AM

Page Number : 1
Vial Number : 17
Injection Number : 1
Sequence Line : 3
Instrument Method: DX.MTH
Analysis Method : DX.MTH

Sig. 1 in C:\HPCHEM\6\DATA\06-03-15\017F0301.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.453	1.33546E+009	1.00875E+008	BV +	0.000	99.0214
2	1.242	769873	269815	VVA	0.048	0.0571
3	2.292	6328604	396979	VV +	0.000	0.4693
4	3.577	5868878	394346	VVA	0.248	0.4352
5	5.085	224726	232293	VV +	0.000	0.0167
6	6.487	5994	423	PB +	0.000	0.0004

Total area = 1.34866E+009



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Area Percent Report

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Data File Name : C:\HPCHEM\6\DATA\06-03-15\017R0301.D
Operator : mwdl
Instrument : GC #6
Sample Name : 05-1044 lcs
Run Time Bar Code:
Acquired on : 03 Jun 15 11:30 AM
Report Created on: 03 Jun 15 11:40 AM

Page Number : 1
Vial Number : 17
Injection Number : 1
Sequence Line : 3
Instrument Method: DX.MTH
Analysis Method : istnddx.MTH

Sig. 2 in C:\HPCHEM\6\DATA\06-03-15\017R0301.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	3.341	11119	13680	BB	0.014	1.5886
2	3.402	128278	230677	BB	0.009	18.3286
3	3.450	131513	277460	BB	0.011	18.7909
4	3.488	11332	9812	BB	0.019	1.6191
5	3.527	28351	24304	BB	0.019	4.0509
6	3.555	88335	185138	BB	0.008	12.6215
7	3.613	8240	8180	BB	0.017	1.1774
8	3.666	15796	18571	BB	0.014	2.2570
9	3.700	64640	124482	BB	0.009	9.2359
10	3.748	6457	4733	BB	0.023	0.9226
11	3.840	44244	81104	BB	0.009	6.3216
12	3.891	9969	10546	BB	0.016	1.4244
13	3.973	19422	43235	BB	0.011	2.7750
14	4.104	10643	20845	BB	0.009	1.5206
15	4.231	119396	236282	BB	0.008	17.0595
16	4.353	2144	3125	BB	0.011	0.3063

Total area = 699878

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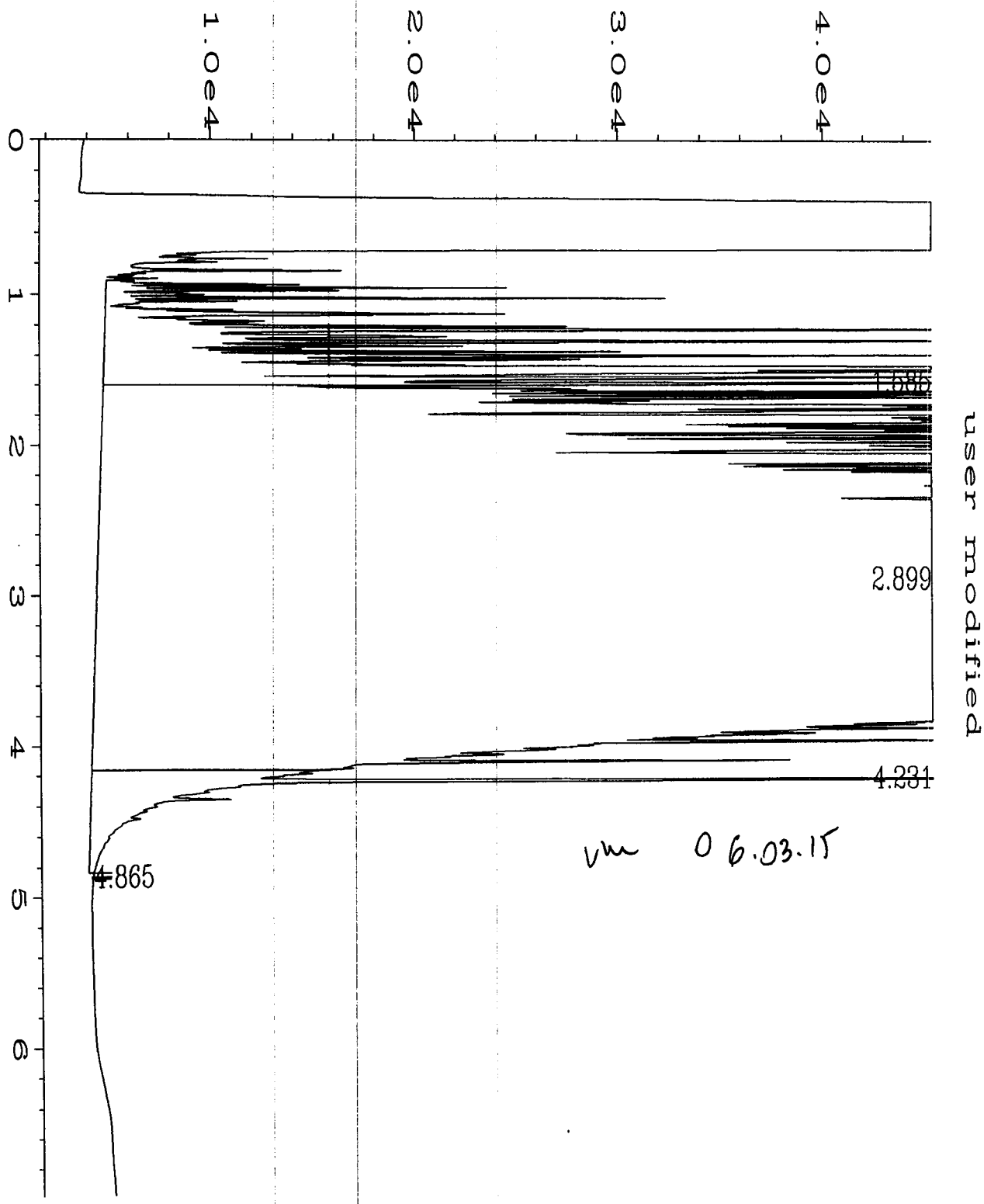
Last modified 4/27/15 mwdl			TPHDSL.XLS				
Data File Name	: C:\HPCHEM\6\DATA\06-03-15\017F0301.D						
Operator	: mwdl			Page Number		: 1	
Instrument	: GC #6			Vial Number		: 17	
Sample Name	: 05-1044 lcs			Injection Number		: 1	
Run Time Bar Code:				Sequence Line		: 3	
Acquired on	42158	0.4791667					
Report Created on: 03 Jun 15 11:40 AM				Analysis Method		: DX.MTH	
Surr / IS	**Ret Time window**		**Area**	**Avg. Area**			
Triacontane						Calibrated	
0	>4.86	<4.90	0	1.00E+05		2/1/11	
Pentacosane							
109	>4.16	<4.3	119396	1.09E+05		12/31/14	
o-Terphenyl							
106	>3.38	<3.47	131513	1.24E+05		12/31/14	
Results			Area	Resp. factor		Calibrated	
Diesel, start C10 - start C25							
1217	>1.59	<4.16	1.21E+07	9.92E+03		12/31/14	
NWTPH-DX, start C10 - end C36							
1197	>1.59	<6.0	12171299	1.02E+04		12/31/14	
Motor Oil, start C25 - end C36							
16	>4.16	<6.0	105330	6.49E+03		12/31/14	
Heavy Oil, start C17 - end C36							
669	>2.99	<6.0	5842695	8.73E+03		12/31/14	
Mineral Oil							
1053	>2.99	<6.0	5842695	5.55E+03		1/8/15	
Stoddard, start C8 - end C11							
711	>0.89	<2.99	7098477	9.99E+03		1/16/15	
Kerosene, start C8 - end C20							
1932	>0.89	<4.16	12835842	6.65E+03		1/10/13	
C24-C38							
-13	>10.45	<19.8	-119396	9.42E+03		1/27/11	



Data File Name	: C:\HPCHEM\6\DATA\06-03-15\018F0301.D		
Operator	: mwdl	Page Number	: 1
Instrument	: GC #6	Vial Number	: 18
Sample Name	: 506038-03 ms	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 3
Acquired on	: 03 Jun 15 11:40 AM	Instrument Method:	DX.MTH
Report Created on:	03 Jun 15 11:57 AM	Analysis Method	: END.MTH

Area Percent Report

Data File Name : C:\HPCHEM\6\DATA\06-03-15\018F0301.D
Operator : mwdl
Instrument : GC #6
Sample Name : 506038-03 ms
Run Time Bar Code:
Acquired on : 03 Jun 15 11:40 AM
Report Created on: 03 Jun 15 11:57 AM

Page Number : 1
Vial Number : 18
Injection Number : 1
Sequence Line : 3
Instrument Method: DX.MTH
Analysis Method : END.MTH

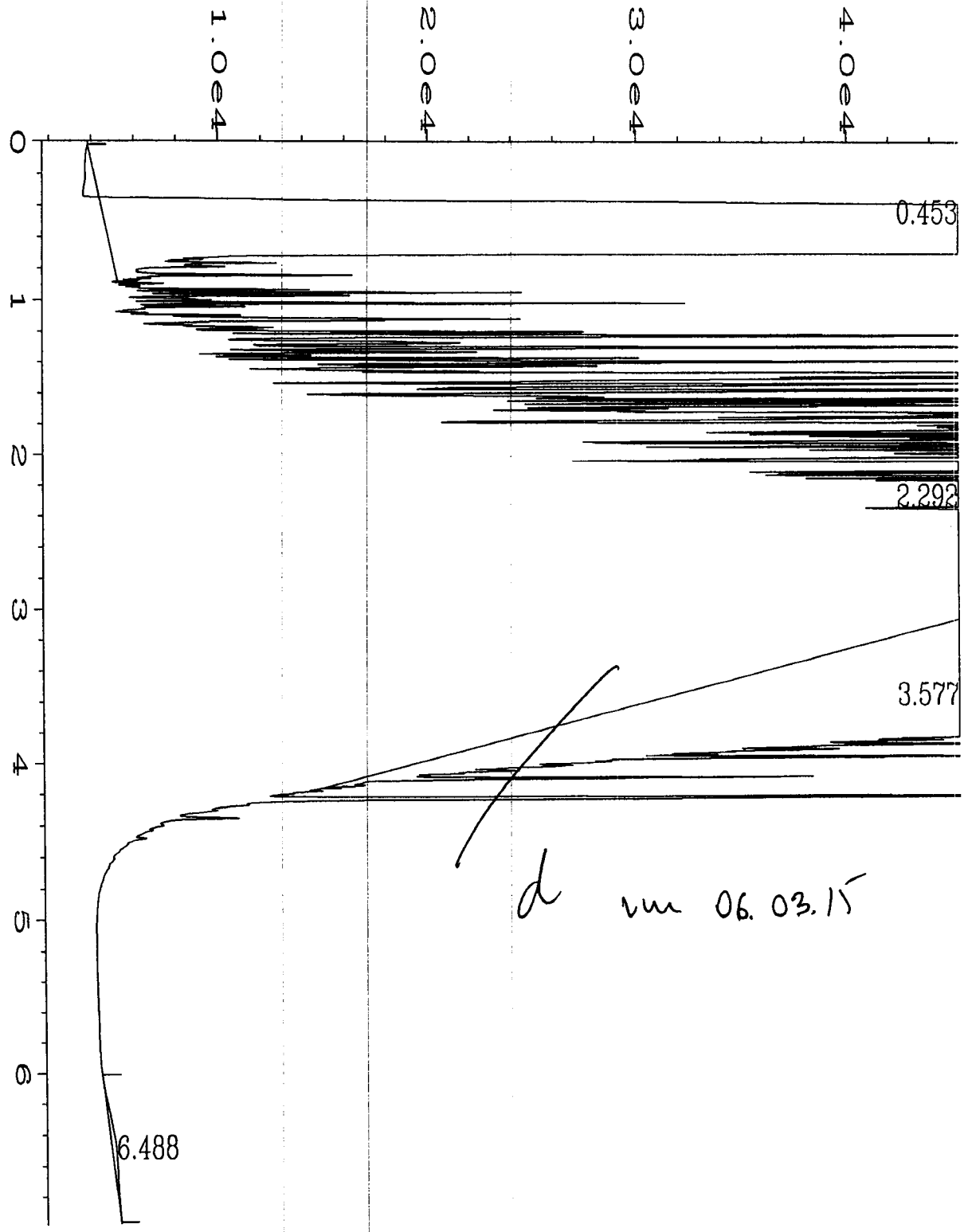
Sig. 1 in C:\HPCHEM\6\DATA\06-03-15\018F0301.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	1.585	715752	266673	MF	0.045	5.4799
2	2.899	1.20972E+007	428754	FF	0.470	92.6180
3	4.231	248393	244811	FM	0.017	1.9017
4	4.865	50	74	MM	0.011	0.0004

Total area = 1.30614E+007

User Modified

lm 06.03.15



Data File Name	: C:\HPCHEM\6\DATA\06-03-15\018F0301.D		
Operator	: mwdl	Page Number	: 1
Instrument	: GC #6	Vial Number	: 18
Sample Name	: 506038-03 ms	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 3
Acquired on	: 03 Jun 15 11:40 AM	Instrument Method	: DX.MTH
Report Created on	: 03 Jun 15 11:51 AM	Analysis Method	: DX.MTH

Area Percent Report

Data File Name : C:\HPCHEM\6\DATA\06-03-15\018F0301.D
Operator : mwdl
Instrument : GC #6
Sample Name : 506038-03 ms
Run Time Bar Code:
Acquired on : 03 Jun 15 11:40 AM
Report Created on: 03 Jun 15 11:51 AM

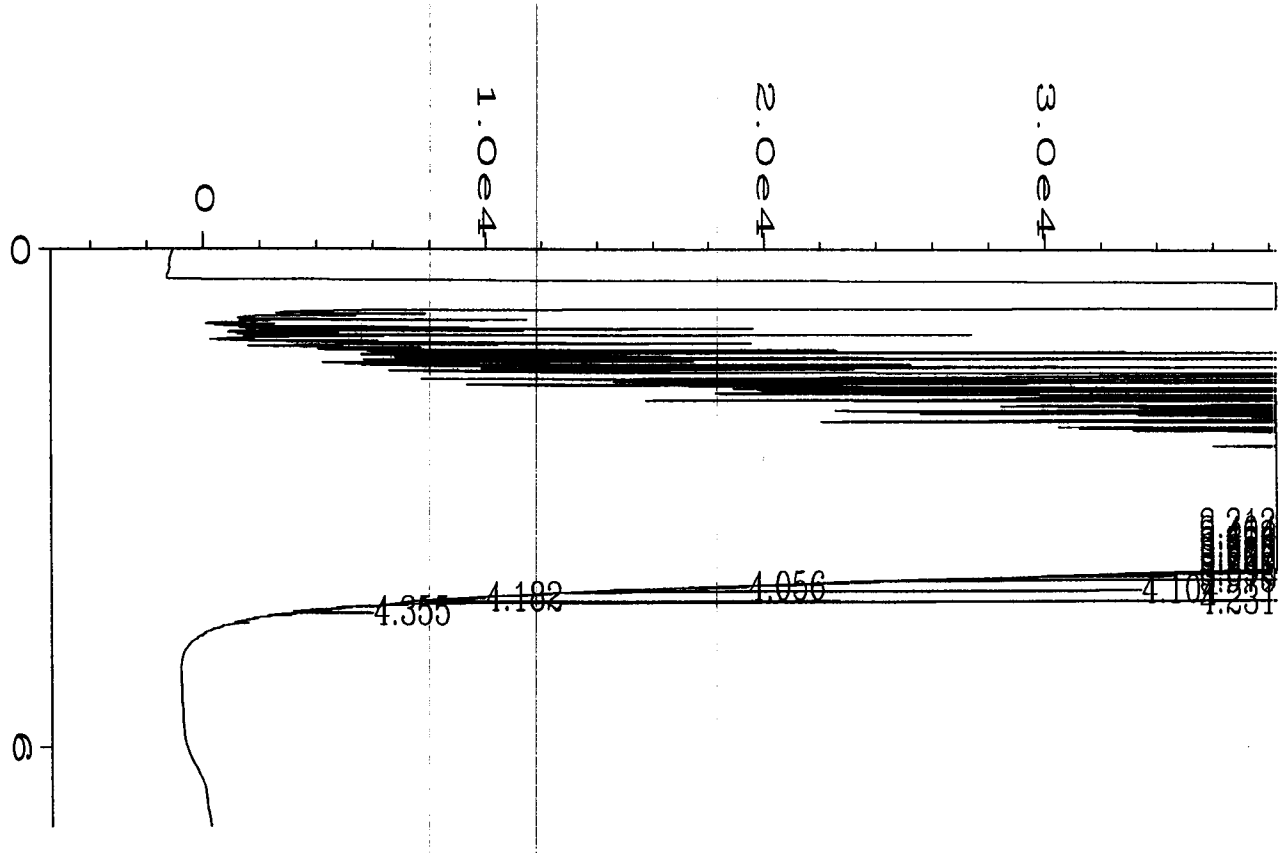
Page Number : 1
Vial Number : 18
Injection Number : 1
Sequence Line : 3
Instrument Method: DX.MTH
Analysis Method : DX.MTH

Sig. 1 in C:\HPCHEM\6\DATA\06-03-15\018F0301.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.453	1.35328E+009	1.00506E+008	BV +	0.000	99.6374
2	2.292	964620	348378	BV +	0.000	0.0710
3	3.577	3953674	366103	VVA	0.180	0.2911
4	6.488	6078	416	PB +	0.000	0.0004

Total area = 1.3582E+009

d vm 06.03.15



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Area Percent Report

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Data File Name : C:\HPCHEM\6\DATA\06-03-15\018R0301.D
Operator : mwdl
Instrument : GC #6
Sample Name : 506038-03 ms
Run Time Bar Code:
Acquired on : 03 Jun 15 11:40 AM
Report Created on: 03 Jun 15 11:51 AM

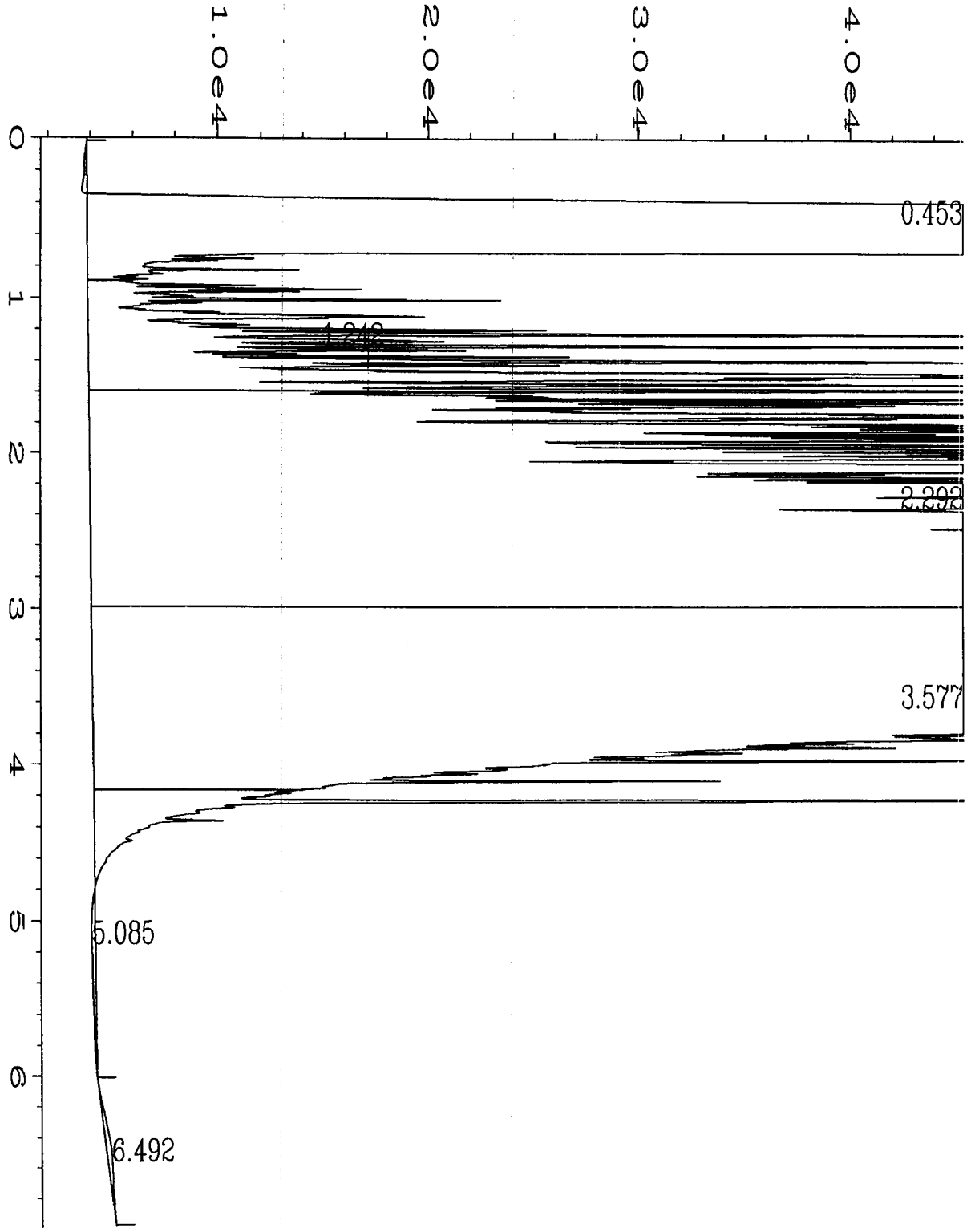
Page Number : 1
Vial Number : 18
Injection Number : 1
Sequence Line : 3
Instrument Method: DX.MTH
Analysis Method : istnddx.MTH

Sig. 2 in C:\HPCHEM\6\DATA\06-03-15\018R0301.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	3.313	9336	14557	BB	0.011	1.3330
2	3.404	123781	238580	BB	0.009	17.6733
3	3.452	135581	292874	BB	0.011	19.3581
4	3.529	32246	25287	BB	0.021	4.6040
5	3.556	83462	188818	BB	0.007	11.9166
6	3.616	7791	8823	BB	0.015	1.1124
7	3.667	20059	21154	BB	0.016	2.8640
8	3.702	66757	134195	BB	0.008	9.5315
9	3.755	6546	7382	BB	0.015	0.9346
10	3.842	42780	75815	BB	0.009	6.1081
11	3.892	7723	10321	BB	0.014	1.1027
12	3.975	22231	39100	BB	0.009	3.1741
13	4.056	4845	2423	BB	0.033	0.6917
14	4.104	11246	21236	BB	0.009	1.6057
15	4.182	573	853	BB	0.011	0.0818
16	4.231	124190	237505	BB	0.009	17.7317
17	4.355	1238	2893	BB	0.013	0.1768

Total area = 700385

Last modified 4/27/15 mwdl			TPHDSL.XLS				
Data File Name	: C:\HPCHEM\6\DATA\06-03-15\018F0301.D						
Operator	: mwdl			Page Number		: 1	
Instrument	: GC #6			Vial Number		: 18	
Sample Name	: 506038-03 ms			Injection Number		: 1	
Run Time Bar Code:				Sequence Line		: 3	
Acquired on	42158	0.4861111					
Report Created on: 03 Jun 15 11:51 AM				Analysis Method		: DX.MTH	
Surr / IS	**Ret Time window**		**Area**	**Avg. Area**			
Triacontane						Calibrated	
0	>4.86	<4.90	0	1.00E+05		2/1/11	
Pentacosane							
114	>4.16	<4.3	124190	1.09E+05		12/31/14	
o-Terphenyl							
110	>3.38	<3.47	135581	1.24E+05		12/31/14	
Results			Area	Resp. factor		Calibrated	VM 06.03.15
Diesel, start C10 - start C25			1961619				
1208 482	>1.59	<4.16	~~4.78E+06~~	9.92E+03		12/31/14	
NWTPH-DX, start C10 - end C36			12345593				
1210 458	>1.59	<6.0	~~4658523~~	1.02E+04		12/31/14	
Motor Oil, start C25 - end C36							
-19	>4.16	<6.0	-124190	6.49E+03		12/31/14	
Heavy Oil, start C17 - end C36							
423	>2.99	<6.0	3693903	8.73E+03		12/31/14	
Mineral Oil							
666	>2.99	<6.0	3693903	5.55E+03		1/8/15	
Stoddard, start C8 - end C11							
97	>0.89	<2.99	964620	9.99E+03		1/16/15	
Kerosene, start C8 - end C20							
720	>0.89	<4.16	4782713	6.65E+03		1/10/13	
C24-C38							
-13	>10.45	<19.8	-124190	9.42E+03		1/27/11	



Data File Name	: C:\HPCHEM\6\DATA\06-03-15\019F0301.D		
Operator	: mwdl	Page Number	: 1
Instrument	: GC #6	Vial Number	: 19
Sample Name	: 506038-03 md	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 3
Acquired on	: 03 Jun 15 11:51 AM	Instrument Method:	DX.MTH
Report Created on:	03 Jun 15 12:02 PM	Analysis Method	: DX.MTH

Area Percent Report

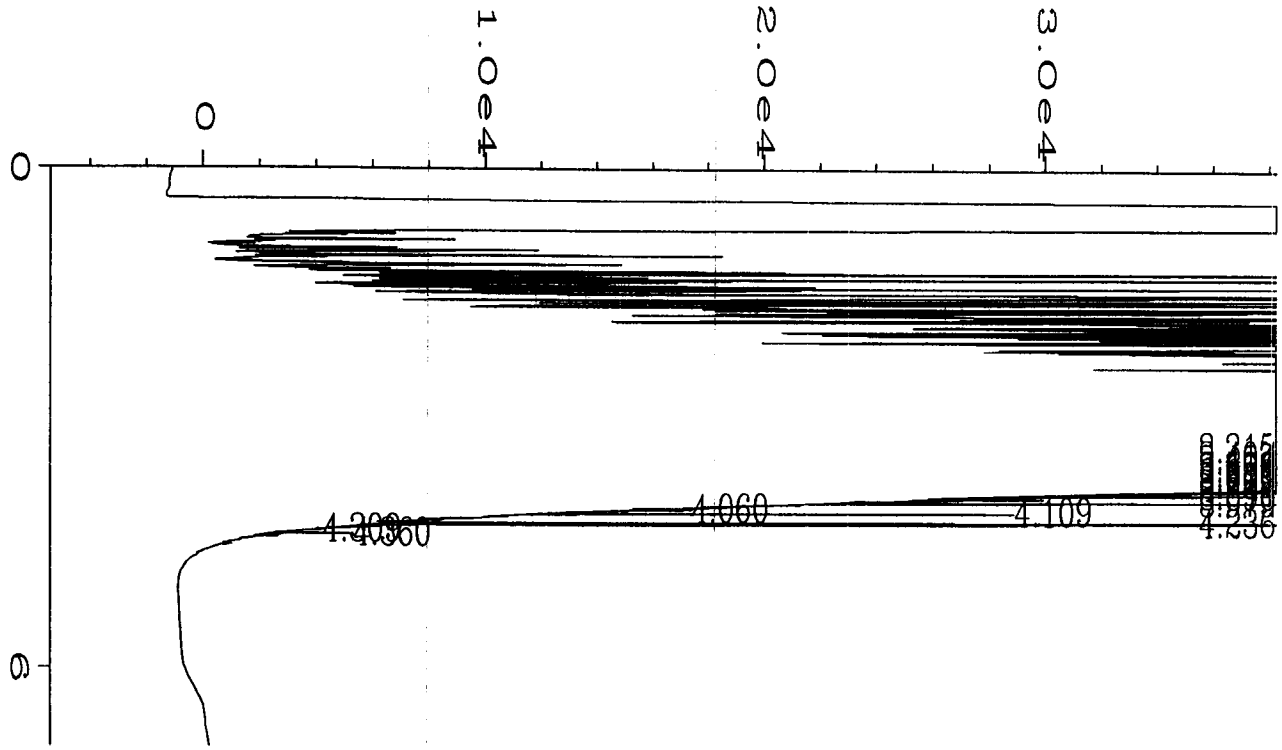
Data File Name : C:\HPCHEM\6\DATA\06-03-15\019F0301.D
Operator : mwdl
Instrument : GC #6
Sample Name : 506038-03 md
Run Time Bar Code:
Acquired on : 03 Jun 15 11:51 AM
Report Created on: 03 Jun 15 12:02 PM

Page Number : 1
Vial Number : 19
Injection Number : 1
Sequence Line : 3
Instrument Method: DX.MTH
Analysis Method : DX.MTH

Sig. 1 in C:\HPCHEM\6\DATA\06-03-15\019F0301.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.453	1.27346E+009	9.97349E+007	BV +	0.000	99.0826
2	1.242	686800	249034	VVA	0.046	0.0534
3	2.292	5639650	345293	VV +	0.000	0.4388
4	3.577	5258108	348921	VVA	0.251	0.4091
5	5.085	199480	215429	VV +	0.000	0.0155
6	6.492	6404	422	PB +	0.000	0.0005

Total area = 1.28525E+009



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Area Percent Report

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Data File Name : C:\HPCHEM\6\DATA\06-03-15\019R0301.D
Operator : mwdl
Instrument : GC #6
Sample Name : 506038-03 md
Run Time Bar Code:
Acquired on : 03 Jun 15 11:51 AM
Report Created on: 03 Jun 15 12:02 PM

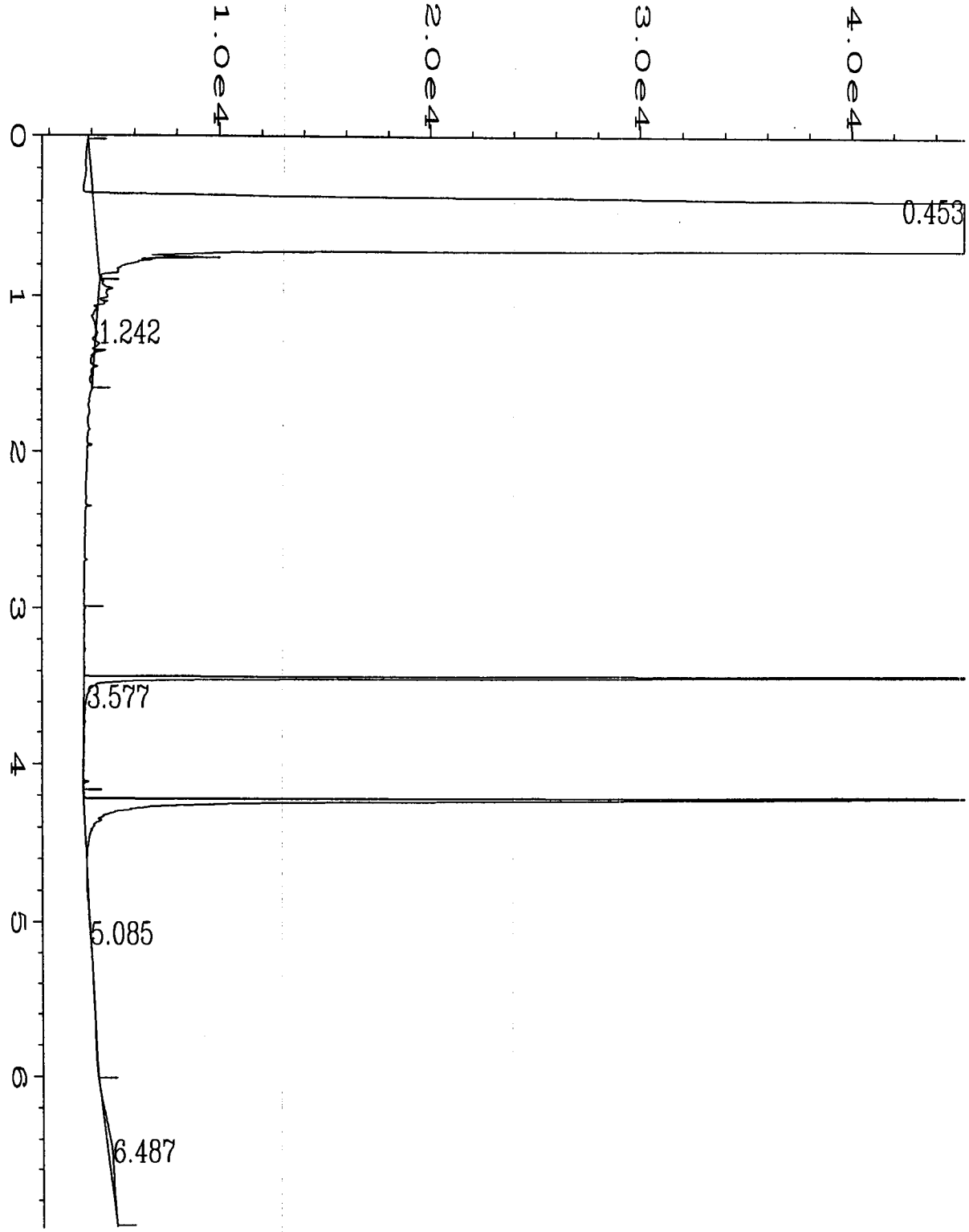
Page Number : 1
Vial Number : 19
Injection Number : 1
Sequence Line : 3
Instrument Method: DX.MTH
Analysis Method : istnddx.MTH

Sig. 2 in C:\HPCHEM\6\DATA\06-03-15\019R0301.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	3.315	9041	11580	BB	0.013	1.4428
2	3.407	114756	225018	BB	0.008	18.3145
3	3.454	128749	275427	BB	0.011	20.5477
4	3.532	30309	23685	BB	0.021	4.8371
5	3.559	77881	162442	BB	0.008	12.4295
6	3.619	4001	7952	BB	0.013	0.6386
7	3.670	12020	15396	BB	0.013	1.9183
8	3.705	56439	110328	BB	0.009	9.0074
9	3.757	5999	4084	BB	0.024	0.9573
10	3.844	37178	69736	BB	0.009	5.9334
11	3.896	8541	9002	BB	0.016	1.3631
12	3.979	19056	36680	BB	0.009	3.0412
13	4.060	4205	2432	BB	0.029	0.6711
14	4.109	9488	18231	BB	0.015	1.5143
15	4.236	106501	222471	BB	0.008	16.9971
16	4.309	579	383	BB	0.025	0.0924
17	4.360	1843	2981	BB	0.010	0.2942

Total area = 626587

Last modified 4/27/15 mwdl			TPHDSL.XLS			
Data File Name	: C:\HPCHEM\6\DATA\06-03-15\019F0301.D					
Operator	: mwdl			Page Number	: 1	
Instrument	: GC #6			Vial Number	: 19	
Sample Name	: 506038-03 md			Injection Number	: 1	
Run Time Bar Code:				Sequence Line	: 3	
Acquired on	42158	0.49375				
Report Created on: 03 Jun 15 12:02 PM				Analysis Method	: DX.MTH	
Surr / IS	**Ret Time window**		**Area**	**Avg. Area**		
Triacontane					Calibrated	
0	>4.86	<4.90	0	1.00E+05	2/1/11	
Pentacosane						
98	>4.16	<4.3	106501	1.09E+05	12/31/14	
o-Terphenyl						
104	>3.38	<3.47	128749	1.24E+05	12/31/14	
Results			Area	Resp. factor	Calibrated	
Diesel, start C10 - start C25						
1086	>1.59	<4.16	1.08E+07	9.92E+03	12/31/14	
NWTPH-DX, start C10 - end C36						
1068	>1.59	<6.0	10861988	1.02E+04	12/31/14	
Motor Oil, start C25 - end C36						
14	>4.16	<6.0	92979	6.49E+03	12/31/14	
Heavy Oil, start C17 - end C36						
598	>2.99	<6.0	5222338	8.73E+03	12/31/14	
Mineral Oil						
941	>2.99	<6.0	5222338	5.55E+03	1/8/15	
Stoddard, start C8 - end C11						
633	>0.89	<2.99	6326450	9.99E+03	1/16/15	
Kerosene, start C8 - end C20						
1724	>0.89	<4.16	11455809	6.65E+03	1/10/13	
C24-C38						
-11	>10.45	<19.8	-106501	9.42E+03	1/27/11	



Data File Name	: C:\HPCHEM\6\DATA\06-03-15\020F0301.D		
Operator	: mwdl	Page Number	: 1
Instrument	: GC #6	Vial Number	: 20
Sample Name	: 506038-03	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 3
Acquired on	: 03 Jun 15 12:02 PM	Instrument Method	: DX.MTH
Report Created on	: 03 Jun 15 12:13 PM	Analysis Method	: DX.MTH

Area Percent Report

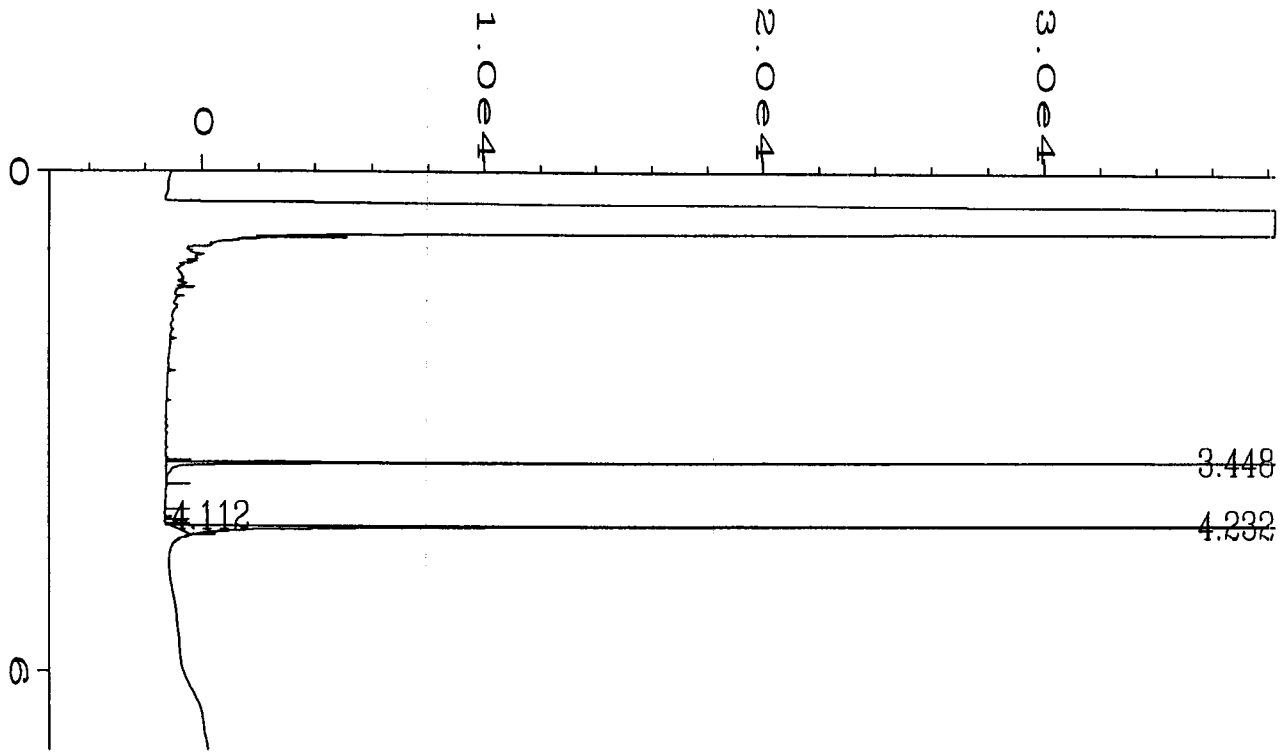
Data File Name : C:\HPCHEM\6\DATA\06-03-15\020F0301.D
Operator : mwdl
Instrument : GC #6
Sample Name : 506038-03
Run Time Bar Code:
Acquired on : 03 Jun 15 12:02 PM
Report Created on: 03 Jun 15 12:13 PM

Page Number : 1
Vial Number : 20
Injection Number : 1
Sequence Line : 3
Instrument Method: DX.MTH
Analysis Method : DX.MTH

Sig. 1 in C:\HPCHEM\6\DATA\06-03-15\020F0301.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.453	1.2723E+009	9.9289E+007	BB +	0.000	99.9819
2	1.242	1368	804	BV +	0.000	0.0001
3	3.577	130183	226639	PVA	0.010	0.0102
4	5.085	92098	128736	PV +	0.000	0.0072
5	6.487	6113	425	PB +	0.000	0.0005

Total area = 1.27253E+009



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Area Percent Report

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Data File Name : C:\HPCHEM\6\DATA\06-03-15\020R0301.D
Operator : mwdl
Instrument : GC #6
Sample Name : 506038-03
Run Time Bar Code:
Acquired on : 03 Jun 15 12:02 PM
Report Created on: 03 Jun 15 12:13 PM

Page Number : 1
Vial Number : 20
Injection Number : 1
Sequence Line : 3
Instrument Method: DX.MTH
Analysis Method : istnddx.MTH

Sig. 2 in C:\HPCHEM\6\DATA\06-03-15\020R0301.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	3.448	128998	251372	BB	0.009	59.8274
2	4.112	160	237	BB	0.015	0.0741
3	4.232	86459	136348	BB	0.016	40.0985

Total area = 215617

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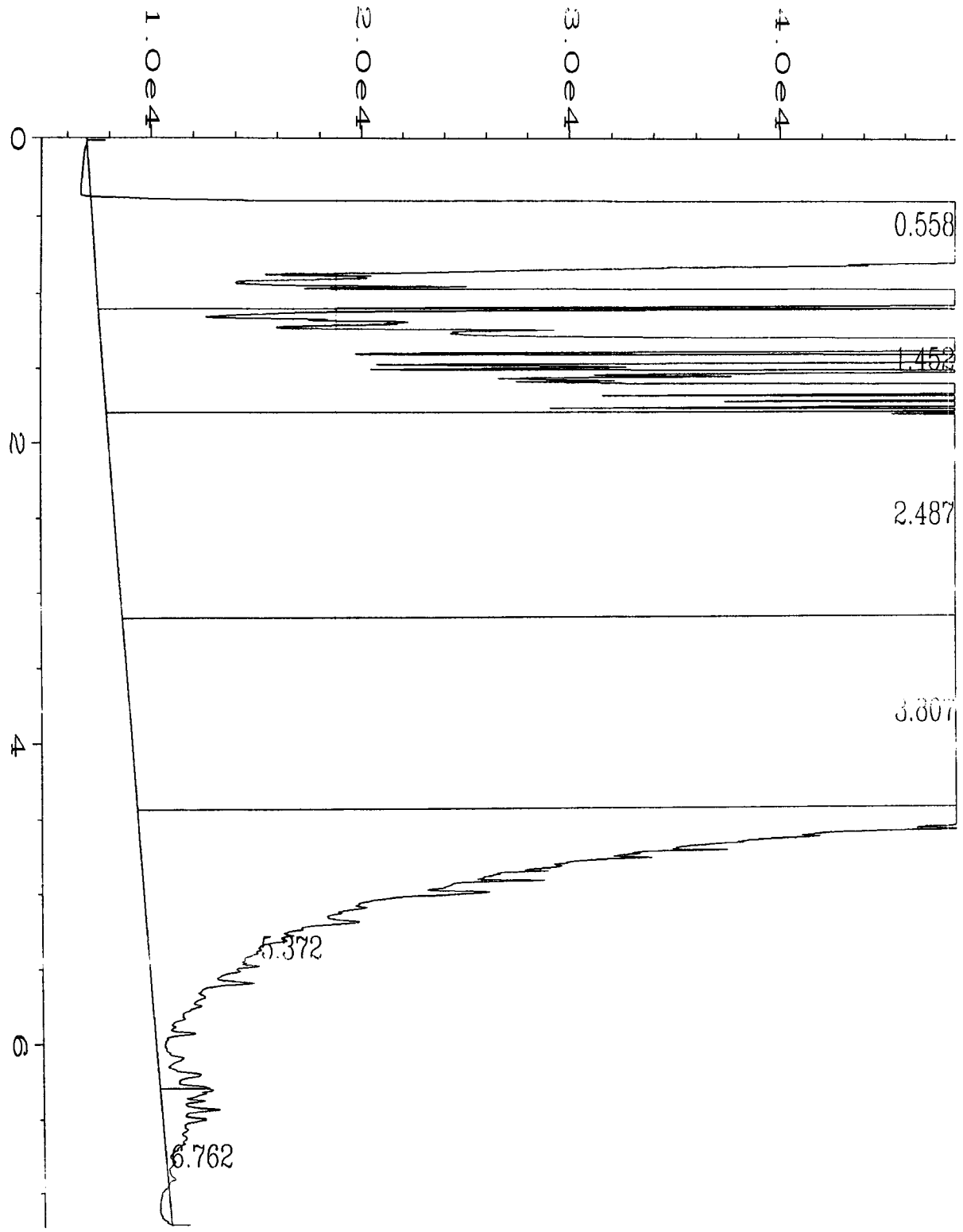
Last modified 4/27/15 mwdl			TPHDSL.XLS			
Data File Name	: C:\HPCHEM\6\DATA\06-03-15\020F0301.D					
Operator	: mwdl			Page Number	: 1	
Instrument	: GC #6			Vial Number	: 20	
Sample Name	: 506038-03			Injection Number	: 1	
Run Time Bar Code:				Sequence Line	: 3	
Acquired on	42158	0.5013889				
Report Created on: 03 Jun 15 12:13 PM				Analysis Method	: DX.MTH	
Surr / IS	**Ret Time window**		**Area**	**Avg. Area**		
Triacontane					Calibrated	
0	>4.86	<4.90	0	1.00E+05	2/1/11	
Pentacosane						
79	>4.16	<4.3	86459	1.09E+05	12/31/14	
o-Terphenyl						
104	>3.38	<3.47	128998	1.24E+05	12/31/14	
Results			Area	Resp. factor	Calibrated	
Diesel, start C10 - start C25						
0	>1.59	<4.16	1.19E+03	9.92E+03	12/31/14	
NWTPH-DX, start C10 - end C36						
1	>1.59	<6.0	6824	1.02E+04	12/31/14	
Motor Oil, start C25 - end C36						
1	>4.16	<6.0	5639	6.49E+03	12/31/14	
Heavy Oil, start C17 - end C36						
1	>2.99	<6.0	6824	8.73E+03	12/31/14	
Mineral Oil						
1	>2.99	<6.0	6824	5.55E+03	1/8/15	
Stoddard, start C8 - end C11						
0	>0.89	<2.99	1368	9.99E+03	1/16/15	
Kerosene, start C8 - end C20						
0	>0.89	<4.16	2553	6.65E+03	1/10/13	
C24-C38						
-9	>10.45	<19.8	-86459	9.42E+03	1/27/11	

NWTPH-Dx
Sample Chromatograms & Data

F&B Project 506026



Data File Name : C:\HPCHEM\1\DATA\06-03-15\040F1001.D
Operator : mwdl
Instrument : GC1
Sample Name : 506026-01
Run Time Bar Code:
Acquired on : 03 Jun 15 05:08 PM
Report Created on: 03 Jun 15 05:19 PM

Page Number : 1
Vial Number : 40
Injection Number : 1
Sequence Line : 10
Instrument Method: DX.MTH
Analysis Method : DX.MTH

Area Percent Report

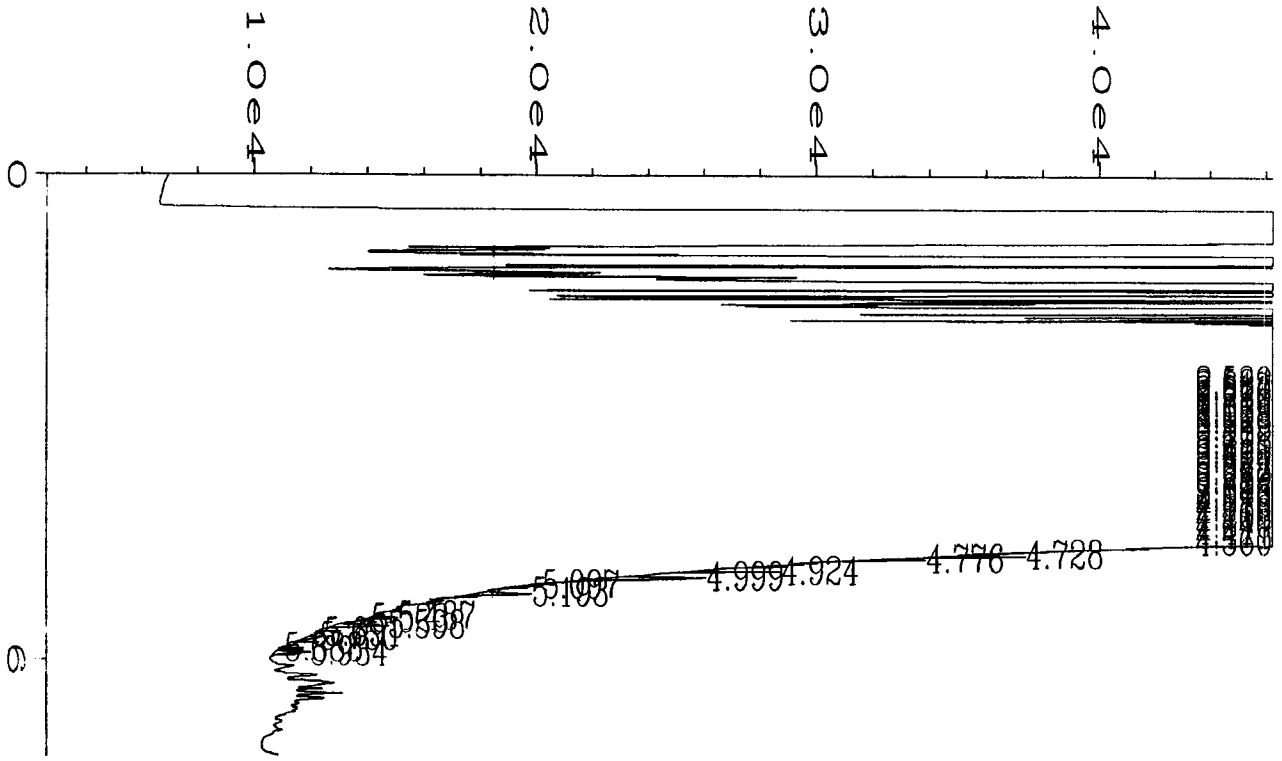
Data File Name : C:\HPCHEM\1\DATA\06-03-15\040F1001.D
Operator : mwdl
Instrument : GC1
Sample Name : 506026-01
Run Time Bar Code:
Acquired on : 03 Jun 15 05:08 PM
Report Created on: 03 Jun 15 05:19 PM

Page Number : 1
Vial Number : 40
Injection Number : 1
Sequence Line : 10
Instrument Method: DX.MTH
Analysis Method : DX.MTH

Sig. 1 in C:\HPCHEM\1\DATA\06-03-15\040F1001.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.558	1.03871E+009	8.15573E+007	BV +	0.000	96.8021
2	1.452	6337657	1856793	VV +	0.000	0.5906
3	2.487	1.4697E+007	570384	VV +	0.000	1.3697
4	3.807	1.18813E+007	384760	VVA	0.515	1.1073
5	5.372	1366189	236526	VV +	0.000	0.1273
6	6.762	31658	2564	VB +	0.000	0.0030

Total area = 1.07303E+009



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Area Percent Report

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Data File Name : C:\HPCHEM\1\DATA\06-03-15\040R1001.D
Operator : mwdl
Instrument : GC1
Sample Name : 506026-01
Run Time Bar Code:
Acquired on : 03 Jun 15 05:08 PM
Report Created on: 03 Jun 15 05:19 PM

Page Number : 1
Vial Number : 40
Injection Number : 1
Sequence Line : 10
Instrument Method: DX.MTH
Analysis Method : istnddx.MTH

Sig. 2 in C:\HPCHEM\1\DATA\06-03-15\040R1001.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	2.539	255964	216979	BBAS	0.020	7.2640
2	2.584	163142	232219	BB	0.012	4.6298
3	2.617	50291	57423	BB	0.015	1.4272
4	2.670	206495	178707	BB	0.019	5.8601
5	2.720	186967	316745	BB	0.010	5.3059
6	2.751	95543	144679	BB	0.011	2.7114
7	2.781	56235	119499	BB	0.008	1.5959
8	2.816	93052	100833	BB	0.015	2.6407
9	2.885	118148	9771	BB	0.202	3.3529
10	2.922	170737	250291	BB	0.011	4.8453
11	2.958	49921	26783	BB	0.031	1.4167
12	3.026	219525	135283	BB	0.026	6.2299
13	3.113	143451	256501	BB	0.009	4.0710
14	3.202	96711	127644	BB	0.016	2.7446
15	3.295	232227	229543	BB	0.017	6.5904
16	3.351	19310	29578	BB	0.011	0.5480
17	3.419	40038	41151	BB	0.016	1.1362
18	3.465	226764	236288	BB	0.023	6.4353
19	3.524	39479	34727	BB	0.019	1.1204
20	3.627	126797	191635	BB	0.011	3.5984

21	3.678	122772	188373	BB	0.013	3.4841
22	3.750	191578	181885	BB	0.018	5.4368
23	3.782	71553	149966	BB	0.008	2.0306
24	3.896	15651	20171	BB	0.013	0.4442
25	3.945	210721	258445	BB	0.014	5.9800
26	3.975	8067	12943	BB	0.010	0.2289
27	4.016	84387	107607	BB	0.013	2.3948
28	4.072	31745	73194	BB	0.007	0.9009
29	4.123	10083	12518	BB	0.013	0.2862
30	4.208	27028	46784	BB	0.010	0.7670
31	4.252	11300	6033	BB	0.027	0.3207
32	4.340	15746	32429	BB	0.008	0.4468
33	4.417	1791	2256	BB	0.013	0.0508
34	4.471	100110	197846	BB	0.013	2.8410
35	4.560	4332	2969	BB	0.024	0.1229
36	4.728	1891	3462	BB	0.009	0.0537
37	4.776	1916	2519	BB	0.020	0.0544
38	4.924	2854	3704	BB	0.013	0.0810
39	4.999	6517	3647	BB	0.030	0.1850
40	5.097	1023	901	BB	0.018	0.0290
41	5.193	3986	2127	BB	0.029	0.1131
42	5.487	955	976	BB	0.016	0.0271
43	5.523	292	398	BB	0.012	0.0083
44	5.598	3270	2011	BB	0.025	0.0928
45	5.691	626	355	BB	0.029	0.0178
46	5.750	830	468	BB	0.030	0.0235
47	5.888	167	211	BB	0.013	0.0047
48	5.934	1746	1261	BB	0.022	0.0496

Total area = 3523739

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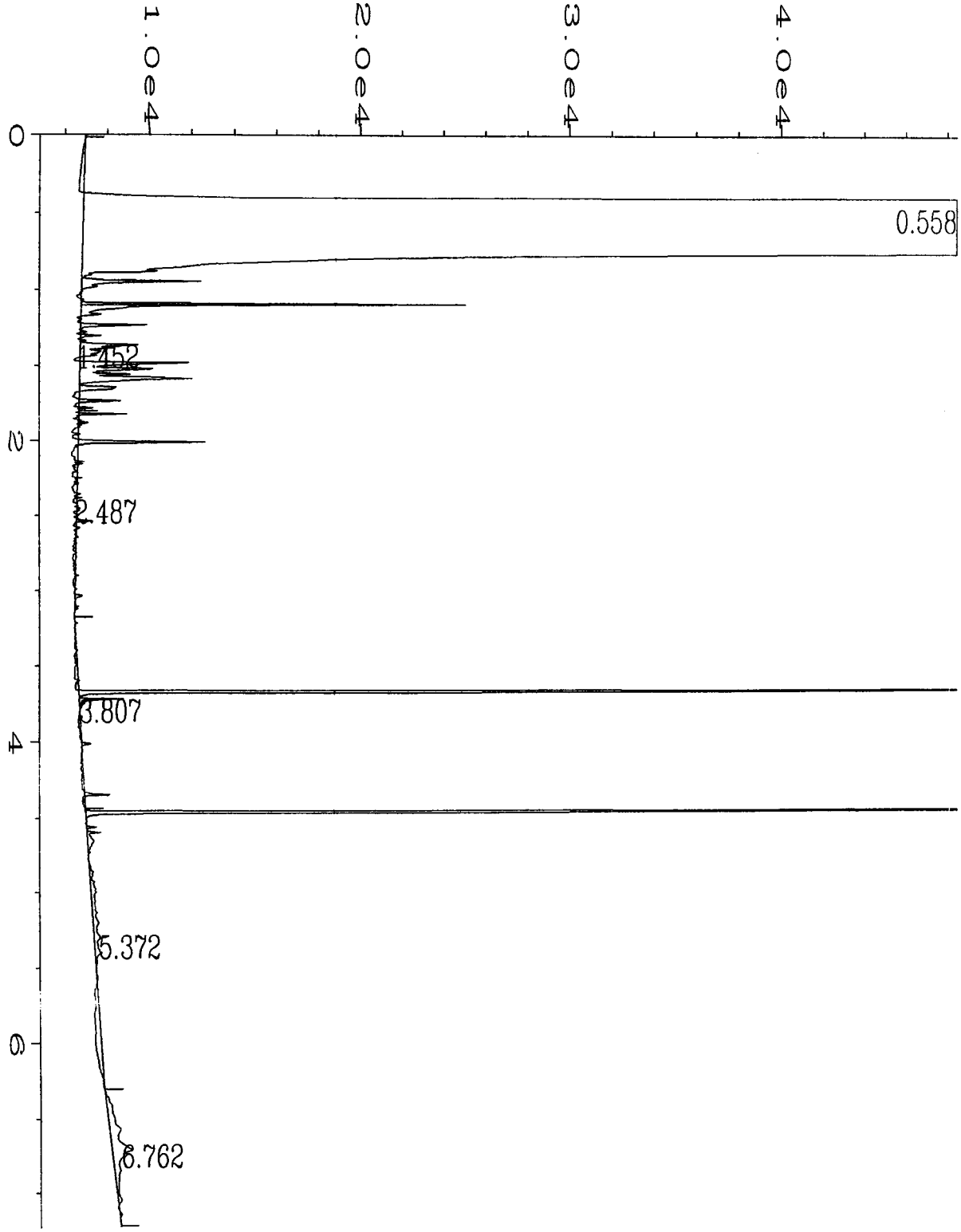
Last modified 4/21/15 mwdl			TPHDSL.XLS			
Data File Name	: C:\HPCHEM\1\DATA\06-03-15\040F1001.D					
Operator	: mwdl			Page Number	: 1	
Instrument	: GC1			Vial Number	: 40	
Sample Name	: 506026-01			Injection Number	: 1	
Run Time Bar Code:				Sequence Line	: 10	
Acquired on	6/3/15	17:08		Instrume	DX.MTH	
Report Created on: 03 Jun 15 05:19 PM				Analysis Method	: DX.MTH	
Surr / IS	**Ret Time window**		**Area**	**Avg. Area**		
Triacontane						Calibrated
0	>5.22	<5.26	0	8.24E+04		9/25/13
Pentacosane						
110	>4.44	<4.53	100110	9.11E+04		1/14/15
o-Terphenyl						
122	>3.63	<3.72	122772	1.00E+05		1/14/15
Results			Area	Resp. factor		Calibrated
Diesel, start C10 - start C25						
3455	>1.8	<4.44	2.65E+07	7.66E+03		1/14/15
NWTPH-DX, start C10 - end C36						
3578	>1.8	<6.3	27721606	7.75E+03		1/14/15
Motor Oil, start C25 - end C36						
245	>4.44	<6.3	1266078	5.16E+03		1/14/15
Heavy Oil, start C17- end C36						
1916	>3.17	<6.3	13024606	6.80E+03		1/14/15
C12-C24						
4151	>1.8	<4.44	26455528	6.37E+03		6/22/11
Stoddard, start C8 - end C11						
2500	>1.1	<3.17	21034657	8.41E+03		1/16/15
Kerosene C8-C20						
5223	>1.1	<4.44	32793185	6.28E+03		7/5/12
Bunker C						
6495	>1.8	<6.3	27721607	4.27E+03		9/19/11
Calibration Info:						
Stoddard (8-11)	2500					
TPHD (8-36)	1701					
TPHDX (8-36)	1681					
Motor Oil (8-36	2524					



Data File Name	: C:\HPCHEM\1\DATA\06-03-15\041F1001.D		
Operator	: mwdl	Page Number	: 1
Instrument	: GC1	Vial Number	: 41
Sample Name	: 506026-02	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 10
Acquired on	: 03 Jun 15 05:19 PM	Instrument Method	: DX.MTH
Report Created on	: 03 Jun 15 05:30 PM	Analysis Method	: DX.MTH

Area Percent Report

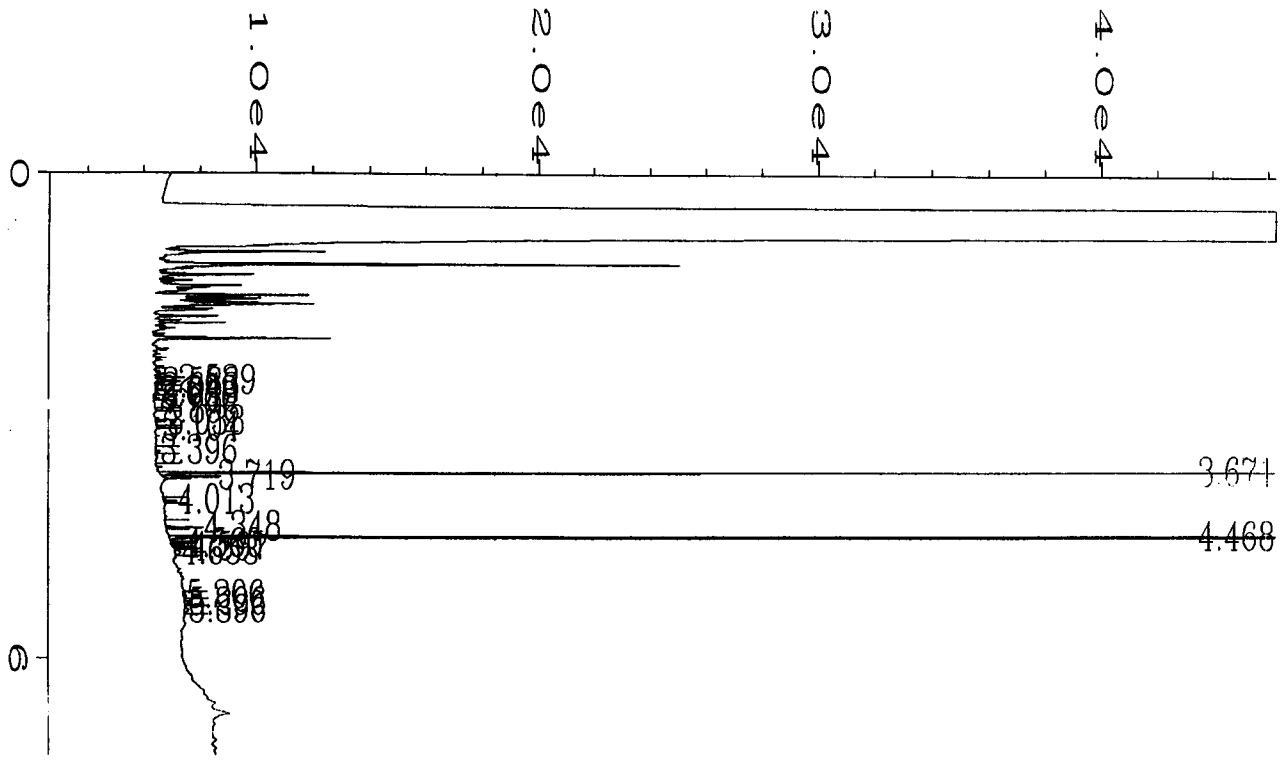
Data File Name : C:\HPCHEM\1\DATA\06-03-15\041F1001.D
Operator : mwdl
Instrument : GC1
Sample Name : 506026-02
Run Time Bar Code:
Acquired on : 03 Jun 15 05:19 PM
Report Created on: 03 Jun 15 05:30 PM

Page Number : 1
Vial Number : 41
Injection Number : 1
Sequence Line : 10
Instrument Method: DX.MTH
Analysis Method : DX.MTH

Sig. 1 in C:\HPCHEM\1\DATA\06-03-15\041F1001.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.558	9.81408E+008	7.92524E+007	BV +	0.000	99.9780
2	1.452	37106	11392	VV +	0.000	0.0038
3	2.487	1221	6104	VB +	0.000	0.0001
4	3.807	83931	161439	BV +	0.000	0.0086
5	5.372	80174	144231	PV +	0.000	0.0082
6	6.762	13150	884	PB +	0.000	0.0013

Total area = 9.81623E+008



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Area Percent Report

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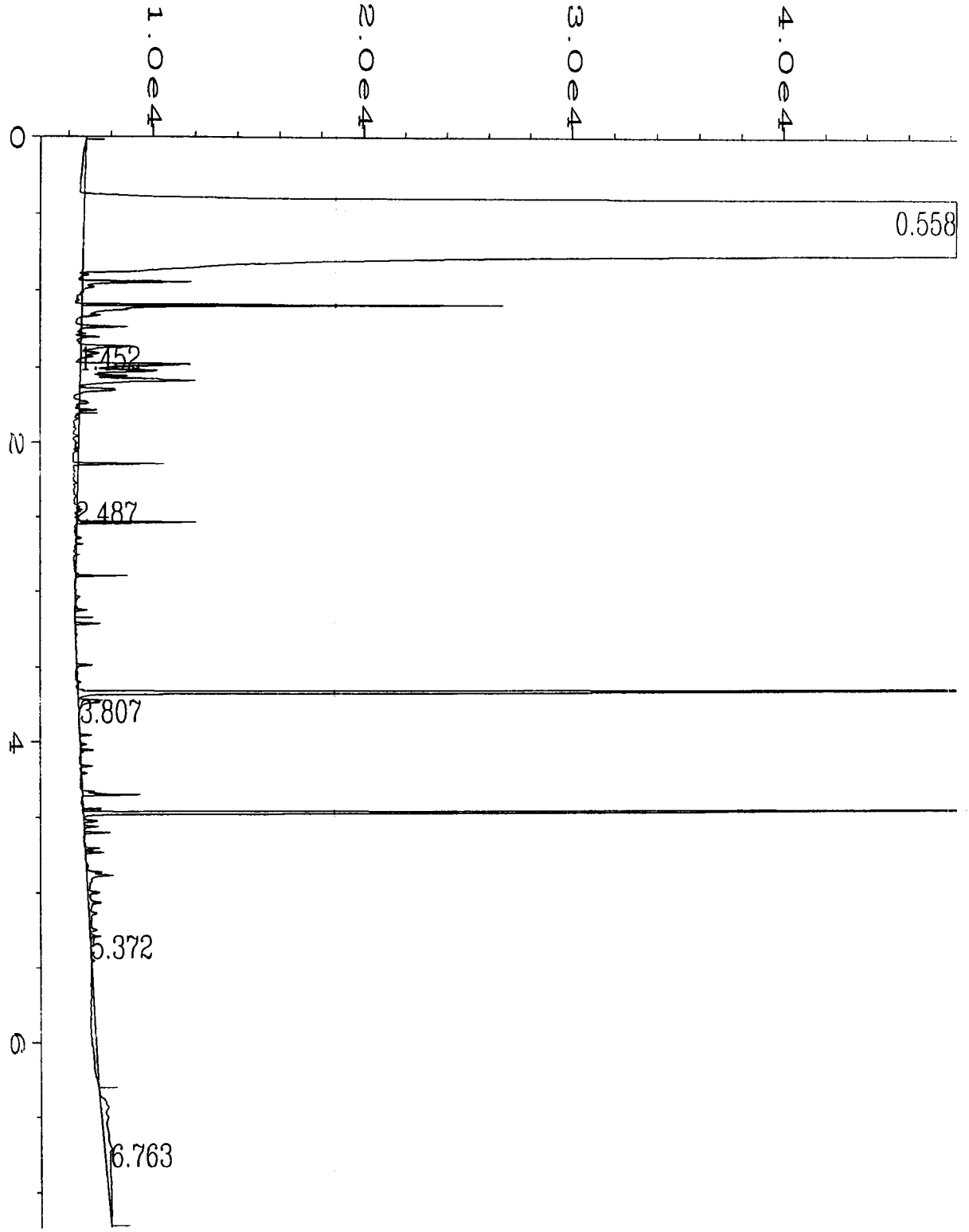
Data File Name : C:\HPCHEM\1\DATA\06-03-15\041R1001.D
Operator : mwdl
Instrument : GC1
Sample Name : 506026-02
Run Time Bar Code:
Acquired on : 03 Jun 15 05:19 PM
Report Created on: 03 Jun 15 05:30 PM

Page Number : 1
Vial Number : 41
Injection Number : 1
Sequence Line : 10
Instrument Method: DX.MTH
Analysis Method : istnddx.MTH

Sig. 2 in C:\HPCHEM\1\DATA\06-03-15\041R1001.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	2.539	452	910	BBAS	0.008	0.2647
2	2.583	201	231	BB	0.015	0.1176
3	2.643	287	230	BB	0.021	0.1678
4	2.683	171	184	BB	0.016	0.1003
5	2.750	251	213	BB	0.020	0.1466
6	2.896	191	265	BB	0.012	0.1115
7	3.033	429	417	BB	0.022	0.2510
8	3.104	122	214	BB	0.009	0.0712
9	3.396	191	153	BB	0.021	0.1120
10	3.671	84902	174195	BB	0.035	49.6737
11	3.719	1491	2017	BB	0.012	0.8723
12	4.013	413	496	BB	0.014	0.2416
13	4.348	974	1431	BB	0.011	0.5701
14	4.468	78542	162568	BB	0.018	45.9527
15	4.560	295	504	BB	0.013	0.1725
16	4.597	313	639	BB	0.008	0.1831
17	4.653	581	210	BB	0.038	0.3402
18	5.206	260	111	BB	0.034	0.1520
19	5.296	360	160	BB	0.031	0.2109
20	5.396	492	161	BB	0.048	0.2881

Last modified 4/21/15 mwdl			TPHDSL.XLS			
Data File Name	: C:\HPCHEM\1\DATA\06-03-15\041F1001.D					
Operator	: mwdl			Page Number	: 1	
Instrument	: GC1			Vial Number	: 41	
Sample Name	: 506026-02			Injection Number	: 1	
Run Time Bar Code:				Sequence Line	: 10	
Acquired on	6/3/15	17:19		Instrume	DX.MTH	
Report Created on: 03 Jun 15 05:30 PM				Analysis Method	: DX.MTH	
Surr / IS	**Ret Time window**		**Area**	**Avg. Area**		
Triacontane						Calibrated
0	>5.22	<5.26	0	8.24E+04		9/25/13
Pentacosane						
86	>4.44	<4.53	78542	9.11E+04		1/14/15
o-Terphenyl						
85	>3.63	<3.72	84902	1.00E+05		1/14/15
Results			Area	Resp. factor		Calibrated
Diesel, start C10 - start C25						
0	>1.8	<4.44	2.50E+02	7.66E+03		1/14/15
NWTPH-DX, start C10 - end C36						
0	>1.8	<6.3	1881	7.75E+03		1/14/15
Motor Oil, start C25 - end C36						
0	>4.44	<6.3	1631	5.16E+03		1/14/15
Heavy Oil, start C17- end C36						
0	>3.17	<6.3	660	6.80E+03		1/14/15
C12-C24						
0	>1.8	<4.44	250	6.37E+03		6/22/11
Stoddard, start C8 - end C11						
5	>1.1	<3.17	38327	8.41E+03		1/16/15
Kerosene C8-C20						
6	>1.1	<4.44	37356	6.28E+03		7/5/12
Bunker C						
0	>1.8	<6.3	1882	4.27E+03		9/19/11
Calibration Info:						
Stoddard (8-11)	5					
TPHD (8-36)	0					
TPHDX (8-36)	0					
Motor Oil (8-36	0					



Data File Name	: C:\HPCHEM\1\DATA\06-03-15\042F1001.D		
Operator	: mwdl	Page Number	: 1
Instrument	: GC1	Vial Number	: 42
Sample Name	: 506026-03	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 10
Acquired on	: 03 Jun 15 05:30 PM	Instrument Method	: DX.MTH
Report Created on	: 03 Jun 15 05:41 PM	Analysis Method	: DX.MTH

Area Percent Report

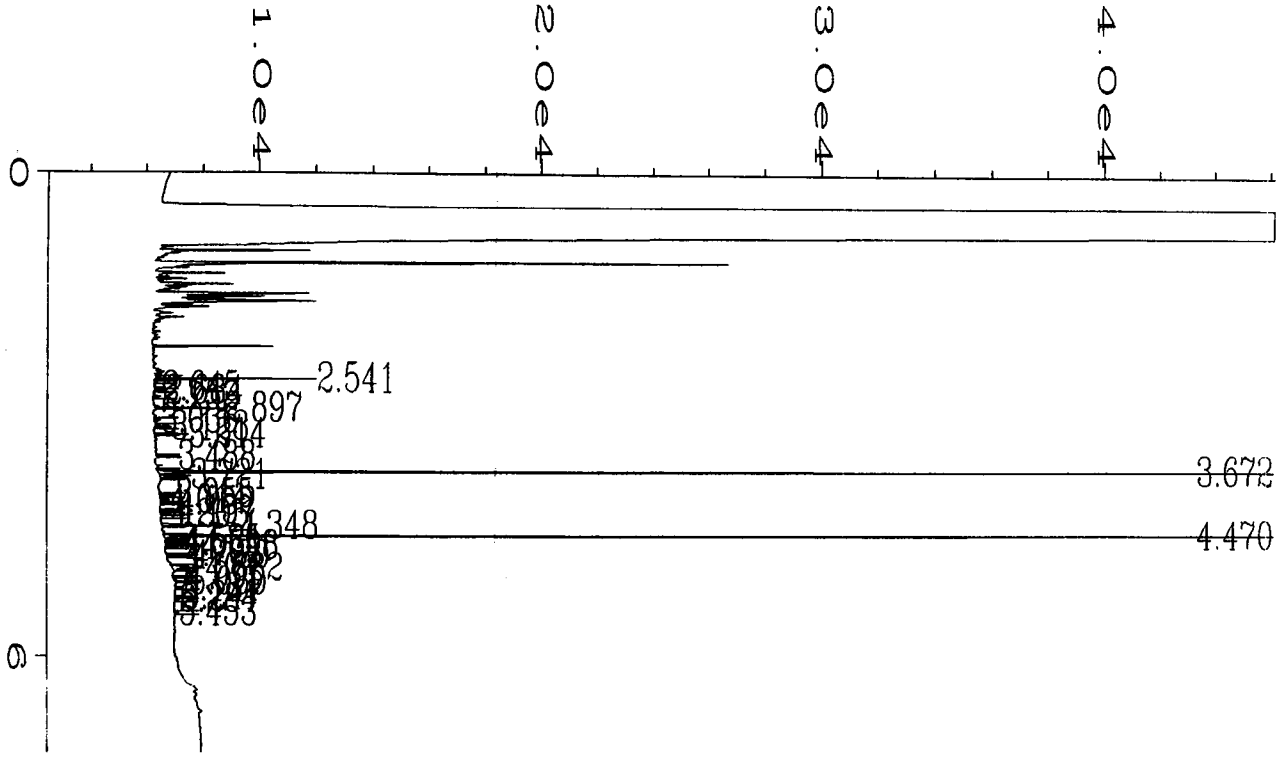
Data File Name : C:\HPCHEM\1\DATA\06-03-15\042F1001.D
Operator : mwdl
Instrument : GC1
Sample Name : 506026-03
Run Time Bar Code:
Acquired on : 03 Jun 15 05:30 PM
Report Created on: 03 Jun 15 05:41 PM

Page Number : 1
Vial Number : 42
Injection Number : 1
Sequence Line : 10
Instrument Method: DX.MTH
Analysis Method : DX.MTH

Sig. 1 in C:\HPCHEM\1\DATA\06-03-15\042F1001.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.558	9.88665E+008	7.85972E+007	BV +	0.000	99.9775
2	1.452	33464	14121	VB +	0.000	0.0034
3	2.487	169	5677	BV +	0.000	0.0000
4	3.807	93973	170437	PB +	0.000	0.0095
5	5.372	84110	166270	BV +	0.000	0.0085
6	6.763	10461	345	PB +	0.000	0.0011

Total area = 9.88887E+008



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Area Percent Report

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Data File Name : C:\HPCHEM\1\DATA\06-03-15\042R1001.D
Operator : mwdl
Instrument : GC1
Sample Name : 506026-03
Run Time Bar Code:
Acquired on : 03 Jun 15 05:30 PM
Report Created on: 03 Jun 15 05:41 PM

Page Number : 1
Vial Number : 42
Injection Number : 1
Sequence Line : 10
Instrument Method: DX.MTH
Analysis Method : istnddx.MTH

Sig. 2 in C:\HPCHEM\1\DATA\06-03-15\042R1001.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	2.541	2834	5981	BBAS	0.008	1.5053
2	2.645	296	324	BB	0.015	0.1574
3	2.684	260	434	BB	0.012	0.1381
4	2.752	241	312	BB	0.016	0.1280
5	2.897	1183	2555	BB	0.008	0.6284
6	3.036	348	241	BB	0.024	0.1849
7	3.123	417	630	BB	0.014	0.2213
8	3.214	611	1268	BB	0.008	0.3244
9	3.488	384	830	BB	0.008	0.2039
10	3.672	88647	184695	BB	0.013	47.0887
11	3.721	1354	1074	BB	0.021	0.7195
12	3.955	354	633	BB	0.009	0.1880
13	4.014	273	331	BB	0.014	0.1449
14	4.052	431	675	BB	0.011	0.2290
15	4.157	345	652	BB	0.009	0.1830
16	4.205	219	405	BB	0.009	0.1163
17	4.348	2339	2965	BB	0.013	1.2425
18	4.470	82323	172921	BB	0.017	43.7293
19	4.525	398	700	BB	0.009	0.2112
20	4.561	430	737	BB	0.010	0.2286

21	4.598	791	1388	BB	0.015	0.4204
22	4.705	421	779	BB	0.009	0.2234
23	4.730	488	920	BB	0.009	0.2593
24	4.882	1528	1191	BB	0.021	0.8119
25	4.995	338	515	BB	0.011	0.1797
26	5.060	281	501	BB	0.009	0.1494
27	5.134	147	286	BB	0.009	0.0778
28	5.247	280	309	BB	0.015	0.1487
29	5.284	149	185	BB	0.018	0.0790
30	5.453	146	151	BB	0.016	0.0775

Total area = 188256

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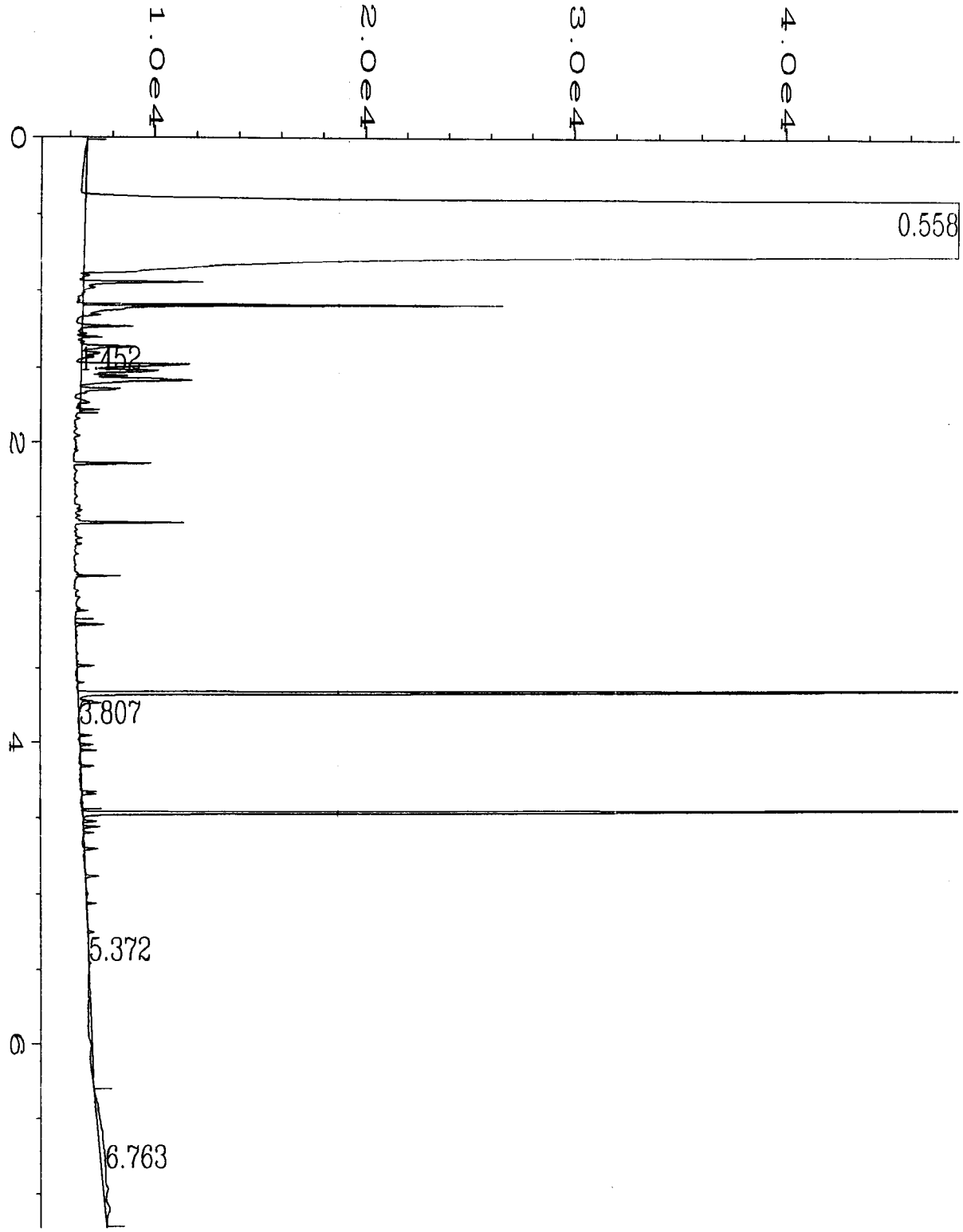
Last modified 4/21/15 mwdl			TPHDSL.XLS			
Data File Name	: C:\HPCHEM\1\DATA\06-03-15\042F1001.D					
Operator	: mwdl			Page Number	: 1	
Instrument	: GC1			Vial Number	: 42	
Sample Name	: 506026-03			Injection Number	: 1	
Run Time Bar Code:				Sequence Line	: 10	
Acquired on	6/3/15	17:30		Instrume	DX.MTH	
Report Created on: 03 Jun 15 05:41 PM				Analysis Method	: DX.MTH	
Surr / IS	**Ret Time window**		**Area**	**Avg. Area**		
Triacontane					Calibrated	
0	>5.22	<5.26	280	8.24E+04	9/25/13	
Pentacosane						
90	>4.44	<4.53	82323	9.11E+04	1/14/15	
o-Terphenyl						
88	>3.63	<3.72	88647	1.00E+05	1/14/15	
Results			Area	Resp. factor	Calibrated	
Diesel, start C10 - start C25						
1	>1.8	<4.44	5.50E+03	7.66E+03	1/14/15	
NWTPH-DX, start C10 - end C36						
1	>1.8	<6.3	7002	7.75E+03	1/14/15	
Motor Oil, start C25 - end C36						
0	>4.44	<6.3	1507	5.16E+03	1/14/15	
Heavy Oil, start C17- end C36						
1	>3.17	<6.3	6833	6.80E+03	1/14/15	
C12-C24						
1	>1.8	<4.44	5495	6.37E+03	6/22/11	
Stoddard, start C8 - end C11						
4	>1.1	<3.17	33633	8.41E+03	1/16/15	
Kerosene C8-C20						
6	>1.1	<4.44	38959	6.28E+03	7/5/12	
Bunker C						
2	>1.8	<6.3	7282	4.27E+03	9/19/11	
Calibration Info:						
Stoddard (8-11)	4					
TPHD (8-36)	1					
TPHDX (8-36)	1					
Motor Oil (8-36	1					



Data File Name	: C:\HPCHEM\1\DATA\06-03-15\043F1001.D		
Operator	: mwdl	Page Number	: 1
Instrument	: GC1	Vial Number	: 43
Sample Name	: 506026-04	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 10
Acquired on	: 03 Jun 15 05:41 PM	Instrument Method	: DX.MTH
Report Created on	: 03 Jun 15 05:52 PM	Analysis Method	: DX.MTH

Area Percent Report

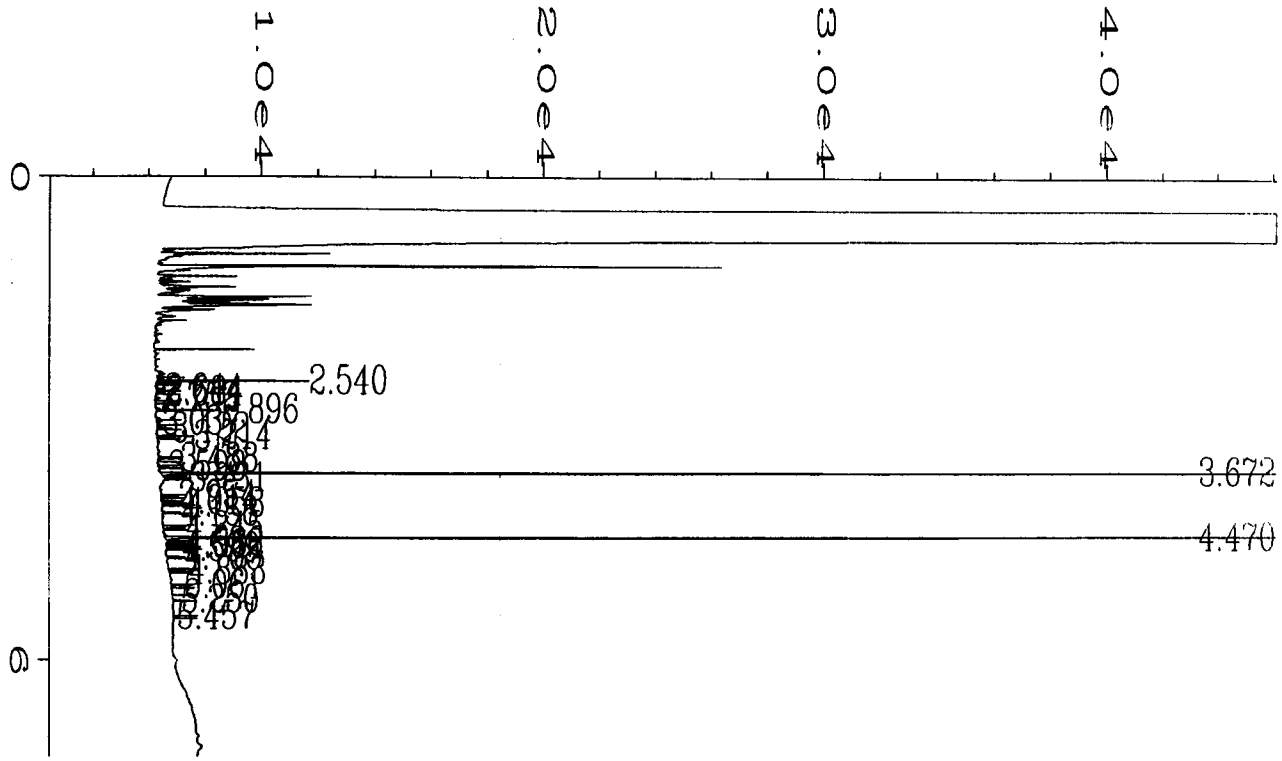
Data File Name : C:\HPCHEM\1\DATA\06-03-15\043F1001.D
Operator : mwdl
Instrument : GC1
Sample Name : 506026-04
Run Time Bar Code:
Acquired on : 03 Jun 15 05:41 PM
Report Created on: 03 Jun 15 05:52 PM

Page Number : 1
Vial Number : 43
Injection Number : 1
Sequence Line : 10
Instrument Method: DX.MTH
Analysis Method : DX.MTH

Sig. 1 in C:\HPCHEM\1\DATA\06-03-15\043F1001.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.558	9.91845E+008	7.83723E+007	BV +	0.000	99.9785
2	1.452	33483	15193	VVA	0.037	0.0034
3	3.807	91968	176833	PV +	0.000	0.0093
4	5.372	79685	157245	VV +	0.000	0.0080
5	6.763	8279	452	PB +	0.000	0.0008

Total area = 9.92059E+008



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Area Percent Report

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Data File Name : C:\HPCHEM\1\DATA\06-03-15\043R1001.D
Operator : mwdl
Instrument : GC1
Sample Name : 506026-04
Run Time Bar Code:
Acquired on : 03 Jun 15 05:41 PM
Report Created on: 03 Jun 15 05:52 PM

Page Number : 1
Vial Number : 43
Injection Number : 1
Sequence Line : 10
Instrument Method: DX.MTH
Analysis Method : istnddx.MTH

Sig. 2 in C:\HPCHEM\1\DATA\06-03-15\043R1001.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	2.540	2565	5578	BBAS	0.013	1.3958
2	2.644	300	325	BB	0.015	0.1633
3	2.684	237	371	BB	0.011	0.1288
4	2.752	202	226	BB	0.016	0.1099
5	2.896	1276	2375	BB	0.009	0.6942
6	3.037	284	199	BB	0.022	0.1545
7	3.122	424	581	BB	0.012	0.2307
8	3.214	675	1375	BB	0.014	0.3674
9	3.488	467	849	BB	0.009	0.2540
10	3.598	188	364	BB	0.009	0.1023
11	3.672	88413	188089	BB	0.008	48.1011
12	3.731	814	902	BB	0.015	0.4428
13	3.954	368	658	BB	0.009	0.2002
14	4.014	455	682	BB	0.014	0.2476
15	4.053	492	932	BB	0.009	0.2676
16	4.158	195	655	BB	0.005	0.1058
17	4.345	1030	853	BB	0.026	0.5604
18	4.470	82726	164666	BB	0.018	45.0069
19	4.526	400	722	BB	0.009	0.2175
20	4.562	477	825	BB	0.010	0.2593

21	4.599	338	597	BB	0.009	0.1839
22	4.705	301	663	BB	0.008	0.1638
23	4.883	528	714	BB	0.012	0.2872
24	5.061	329	489	BB	0.016	0.1789
25	5.250	216	300	BB	0.012	0.1173
26	5.457	108	124	BB	0.014	0.0587

Total area = 183807

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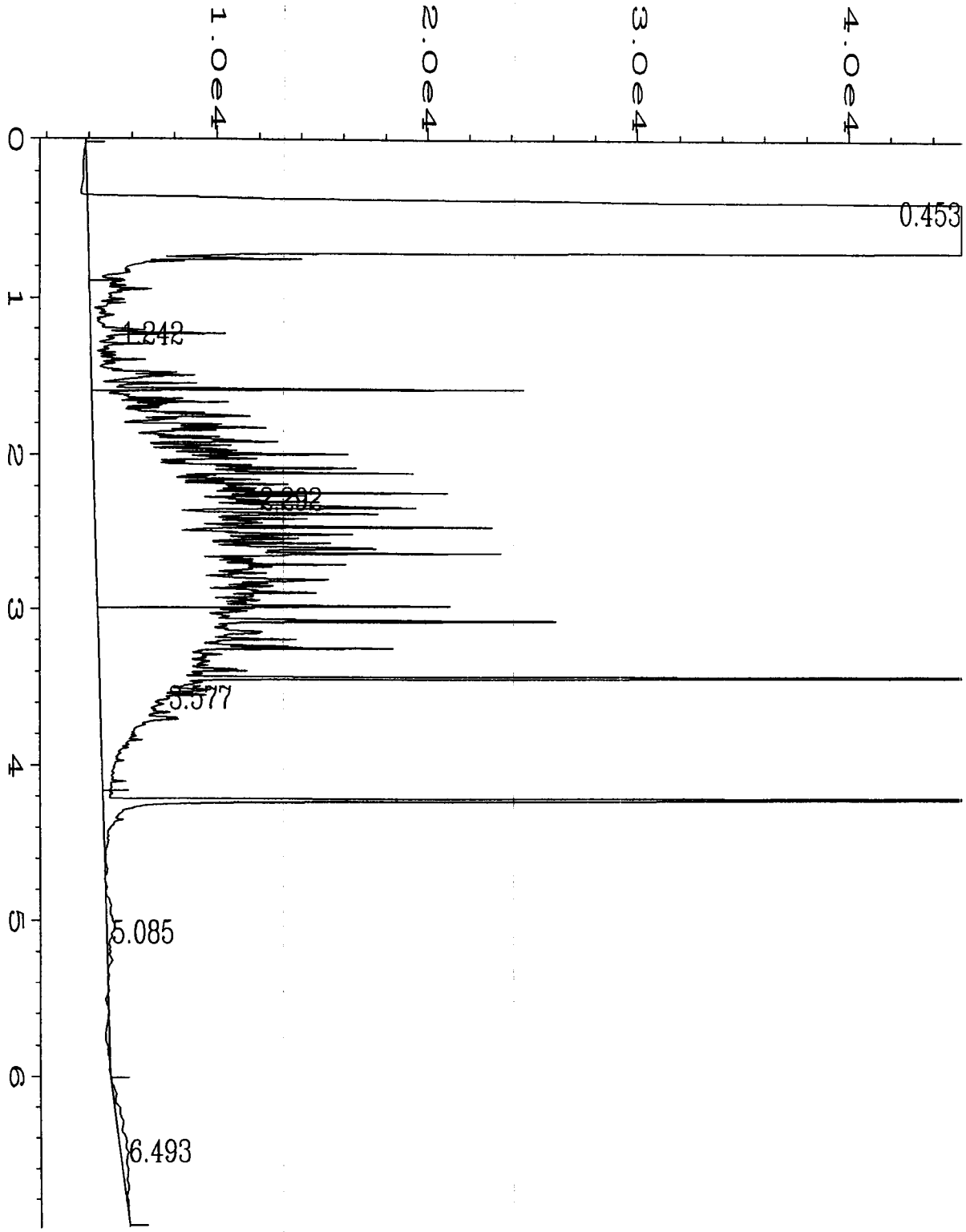
Last modified 4/21/15 mwdl			TPHDSL.XLS			
Data File Name	: C:\HPCHEM\1\DATA\06-03-15\043F1001.D					
Operator	: mwdl			Page Number	: 1	
Instrument	: GC1			Vial Number	: 43	
Sample Name	: 506026-04			Injection Number	: 1	
Run Time Bar Code:				Sequence Line	: 10	
Acquired on	6/3/15	17:41		Instrume	DX.MTH	
Report Created on: 03 Jun 15 05:52 PM				Analysis Method	: DX.MTH	
Surr / IS	**Ret Time window**		**Area**	**Avg. Area**		
Triacontane					Calibrated	
0	>5.22	<5.26	216	8.24E+04	9/25/13	
Pentacosane						
91	>4.44	<4.53	82726	9.11E+04	1/14/15	
o-Terphenyl						
88	>3.63	<3.72	88413	1.00E+05	1/14/15	
Results			Area	Resp. factor	Calibrated	
Diesel, start C10 - start C25						
0	>1.8	<4.44	3.56E+03	7.66E+03	1/14/15	
NWTPH-DX, start C10 - end C36						
0	>1.8	<6.3	298	7.75E+03	1/14/15	
Motor Oil, start C25 - end C36						
-1	>4.44	<6.3	-3257	5.16E+03	1/14/15	
Heavy Oil, start C17- end C36						
0	>3.17	<6.3	298	6.80E+03	1/14/15	
C12-C24						
1	>1.8	<4.44	3555	6.37E+03	6/22/11	
Stoddard, start C8 - end C11						
4	>1.1	<3.17	33483	8.41E+03	1/16/15	
Kerosene C8-C20						
6	>1.1	<4.44	37038	6.28E+03	7/5/12	
Bunker C						
0	>1.8	<6.3	514	4.27E+03	9/19/11	
Calibration Info:						
Stoddard (8-11)	4					
TPHD (8-36)	0					
TPHDX (8-36)	0					
Motor Oil (8-36	0					



Data File Name	: C:\HPCHEM\6\DATA\06-03-15\024F0501.D		
Operator	: mwdl	Page Number	: 1
Instrument	: GC #6	Vial Number	: 24
Sample Name	: 506026-05	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 5
Acquired on	: 03 Jun 15 01:08 PM	Instrument Method	: DX.MTH
Report Created on:	03 Jun 15 01:18 PM	Analysis Method	: DX.MTH

Area Percent Report

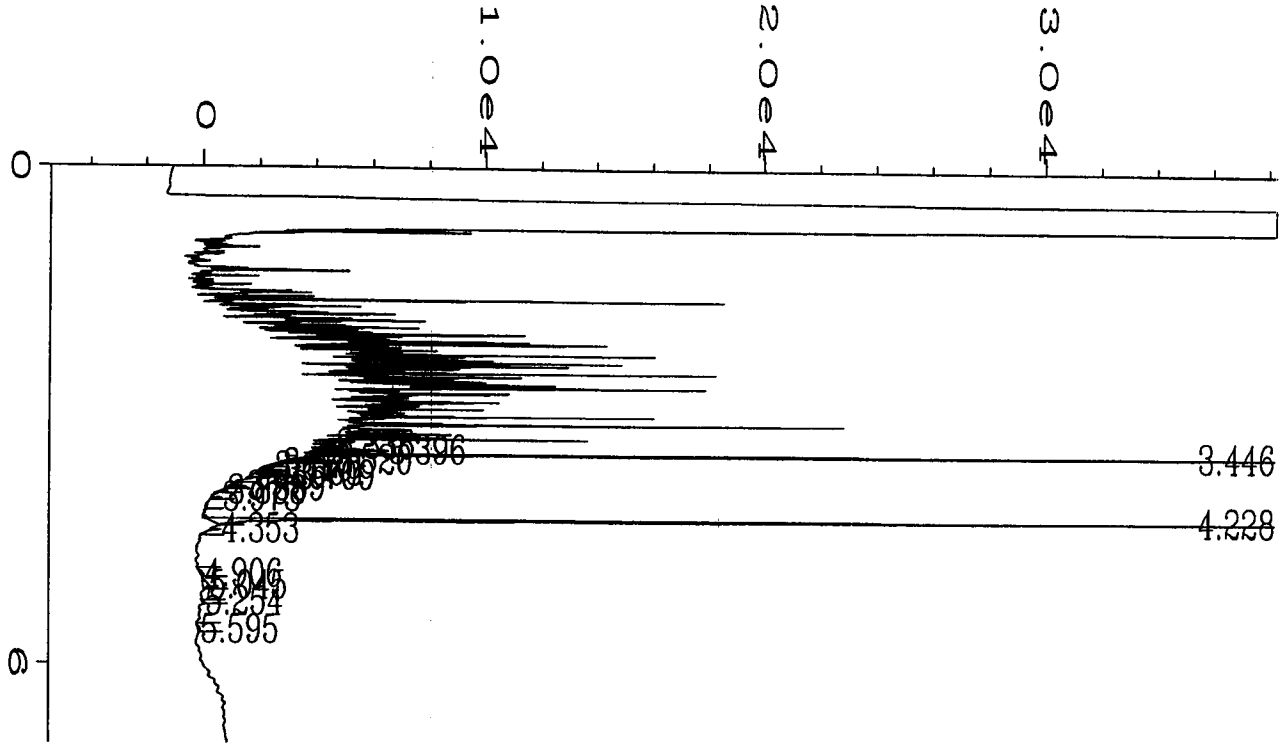
Data File Name : C:\HPCHEM\6\DATA\06-03-15\024F0501.D
Operator : mwdl
Instrument : GC #6
Sample Name : 506026-05
Run Time Bar Code:
Acquired on : 03 Jun 15 01:08 PM
Report Created on: 03 Jun 15 01:18 PM

Page Number : 1
Vial Number : 24
Injection Number : 1
Sequence Line : 5
Instrument Method: DX.MTH
Analysis Method : DX.MTH

Sig. 1 in C:\HPCHEM\6\DATA\06-03-15\024F0501.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.453	1.24985E+009	9.80891E+007	BV +	0.000	99.9117
2	1.242	60901	20544	VVA	0.049	0.0049
3	2.292	536636	19246	VV +	0.000	0.0429
4	3.577	380286	269667	VVA	0.024	0.0304
5	5.085	116313	181641	VV +	0.000	0.0093
6	6.493	10267	428	PB +	0.000	0.0008

Total area = 1.25096E+009



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Area Percent Report

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Data File Name : C:\HPCHEM\6\DATA\06-03-15\024R0501.D
Operator : mwdl
Instrument : GC #6
Sample Name : 506026-05
Run Time Bar Code:
Acquired on : 03 Jun 15 01:08 PM
Report Created on: 03 Jun 15 01:18 PM

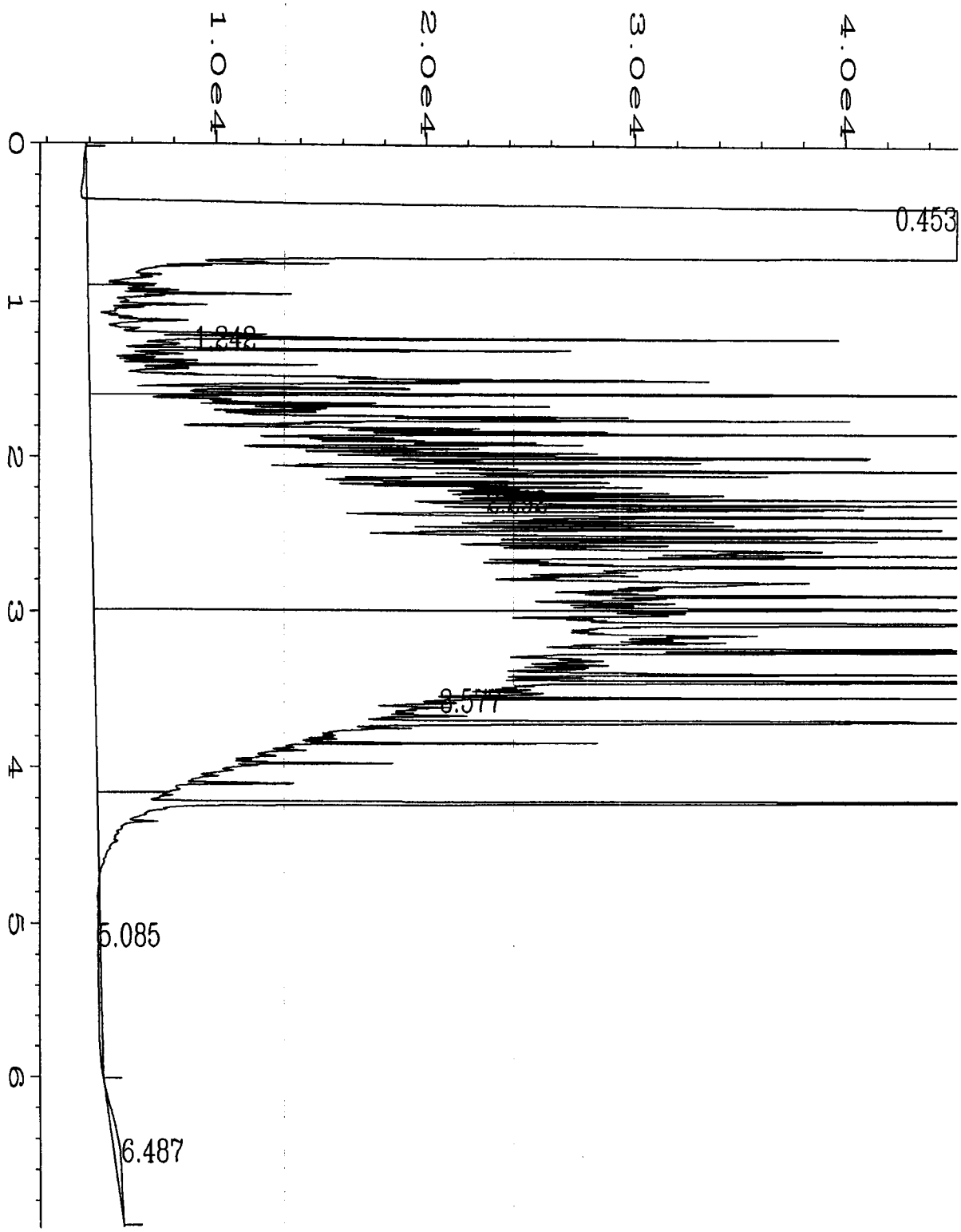
Page Number : 1
Vial Number : 24
Injection Number : 1
Sequence Line : 5
Instrument Method: DX.MTH
Analysis Method : istnddx.MTH

Sig. 2 in C:\HPCHEM\6\DATA\06-03-15\024R0501.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	3.336	274	494	BB	0.009	0.1110
2	3.396	2243	2834	BB	0.013	0.9104
3	3.446	130426	304212	BB	0.007	52.9399
4	3.520	1943	1614	BB	0.020	0.7885
5	3.573	1648	484	BB	0.057	0.6689
6	3.610	493	488	BB	0.017	0.2002
7	3.663	765	987	BB	0.013	0.3105
8	3.709	2180	1675	BB	0.025	0.8847
9	3.839	597	748	BB	0.013	0.2425
10	3.888	255	305	BB	0.014	0.1037
11	3.973	288	432	BB	0.011	0.1171
12	4.228	103122	189041	BB	0.019	41.8570
13	4.353	376	407	BB	0.019	0.1527
14	4.906	402	109	BB	0.048	0.1632
15	5.045	879	230	BB	0.048	0.3569
16	5.254	145	93	BB	0.023	0.0588
17	5.595	330	86	BB	0.050	0.1341

Total area = 246367

Last modified 4/27/15 mwdl			TPHDSL.XLS			
Data File Name	: C:\HPCHEM\6\DATA\06-03-15\024F0501.D					
Operator	: mwdl			Page Number	: 1	
Instrument	: GC #6			Vial Number	: 24	
Sample Name	: 506026-05			Injection Number	: 1	
Run Time Bar Code:				Sequence Line	: 5	
Acquired on	42158	0.5472222				
Report Created on: 03 Jun 15 01:18 PM				Analysis Method	: DX.MTH	
Surr / IS	**Ret Time window**		**Area**	**Avg. Area**		
Triacontane					Calibrated	
0	>4.86	<4.90	0	1.00E+05	2/1/11	
Pentacosane						
95	>4.16	<4.3	103122	1.09E+05	12/31/14	
o-Terphenyl						
106	>3.38	<3.47	130426	1.24E+05	12/31/14	
Results			Area	Resp. factor	Calibrated	
Diesel, start C10 - start C25						
79	>1.59	<4.16	7.86E+05	9.92E+03	12/31/14	
NWTPH-DX, start C10 - end C36						
79	>1.59	<6.0	799687	1.02E+04	12/31/14	
Motor Oil, start C25 - end C36						
2	>4.16	<6.0	13191	6.49E+03	12/31/14	
Heavy Oil, start C17 - end C36						
30	>2.99	<6.0	263051	8.73E+03	12/31/14	
Mineral Oil						
47	>2.99	<6.0	263051	5.55E+03	1/8/15	
Stoddard, start C8 - end C11						
60	>0.89	<2.99	597537	9.99E+03	1/16/15	
Kerosene, start C8 - end C20						
128	>0.89	<4.16	847397	6.65E+03	1/10/13	
C24-C38						
-11	>10.45	<19.8	-103122	9.42E+03	1/27/11	



Data File Name	: C:\HPCHEM\6\DATA\06-03-15\025F0501.D		
Operator	: mwdl	Page Number	: 1
Instrument	: GC #6	Vial Number	: 25
Sample Name	: 506026-06	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 5
Acquired on	: 03 Jun 15 01:19 PM	Instrument Method:	DX.MTH
Report Created on:	03 Jun 15 01:29 PM	Analysis Method	: DX.MTH

Area Percent Report

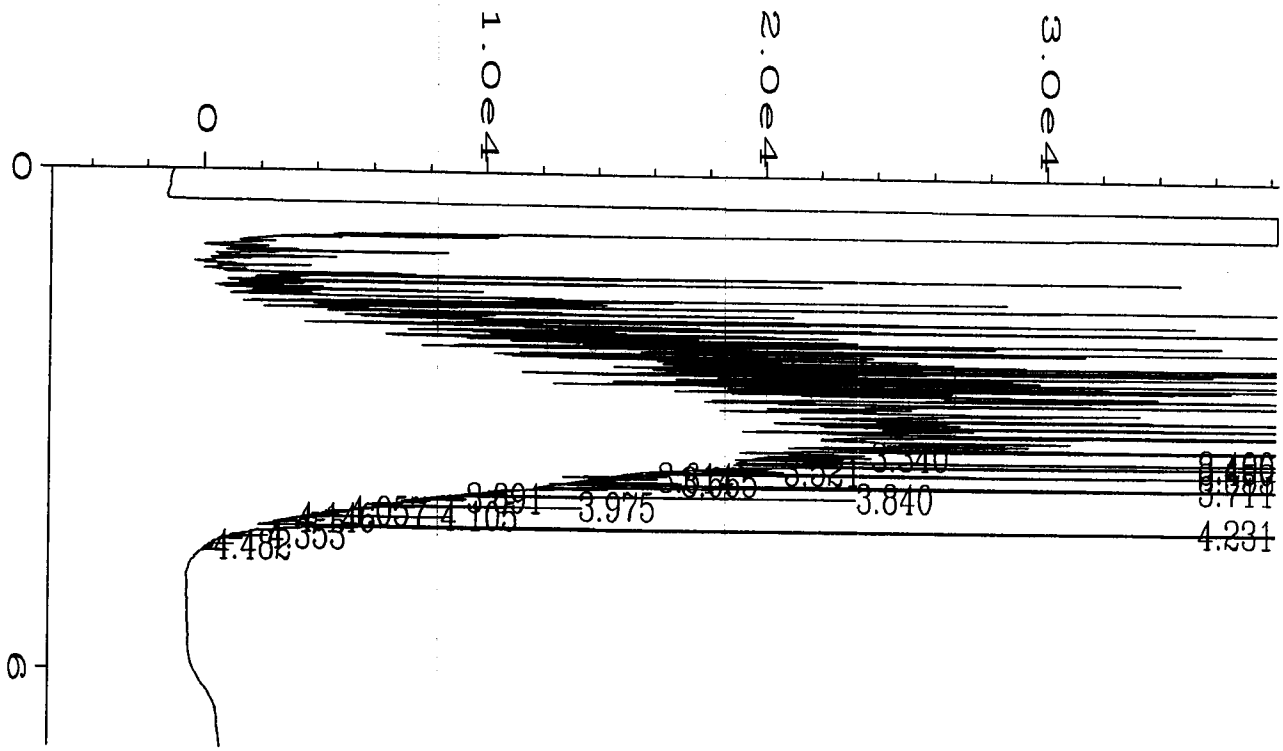
Data File Name : C:\HPCHEM\6\DATA\06-03-15\025F0501.D
Operator : mwdl
Instrument : GC #6
Sample Name : 506026-06
Run Time Bar Code:
Acquired on : 03 Jun 15 01:19 PM
Report Created on: 03 Jun 15 01:29 PM

Page Number : 1
Vial Number : 25
Injection Number : 1
Sequence Line : 5
Instrument Method: DX.MTH
Analysis Method : DX.MTH

Sig. 1 in C:\HPCHEM\6\DATA\06-03-15\025F0501.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.453	1.25018E+009	9.86415E+007	BV +	0.000	99.7123
2	1.242	234339	75578	VVA	0.052	0.0187
3	2.292	1812827	84962	VV +	0.000	0.1446
4	3.577	1410877	297729	VVA	0.079	0.1125
5	5.085	139254	196307	VV +	0.000	0.0111
6	6.487	9610	478	PB +	0.000	0.0008

Total area = 1.25379E+009



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Area Percent Report

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Data File Name : C:\HPCHEM\6\DATA\06-03-15\025R0501.D
Operator : mwdl
Instrument : GC #6
Sample Name : 506026-06
Run Time Bar Code:
Acquired on : 03 Jun 15 01:19 PM
Report Created on: 03 Jun 15 01:29 PM

Page Number : 1
Vial Number : 25
Injection Number : 1
Sequence Line : 5
Instrument Method: DX.MTH
Analysis Method : istnddx.MTH

Sig. 2 in C:\HPCHEM\6\DATA\06-03-15\025R0501.D

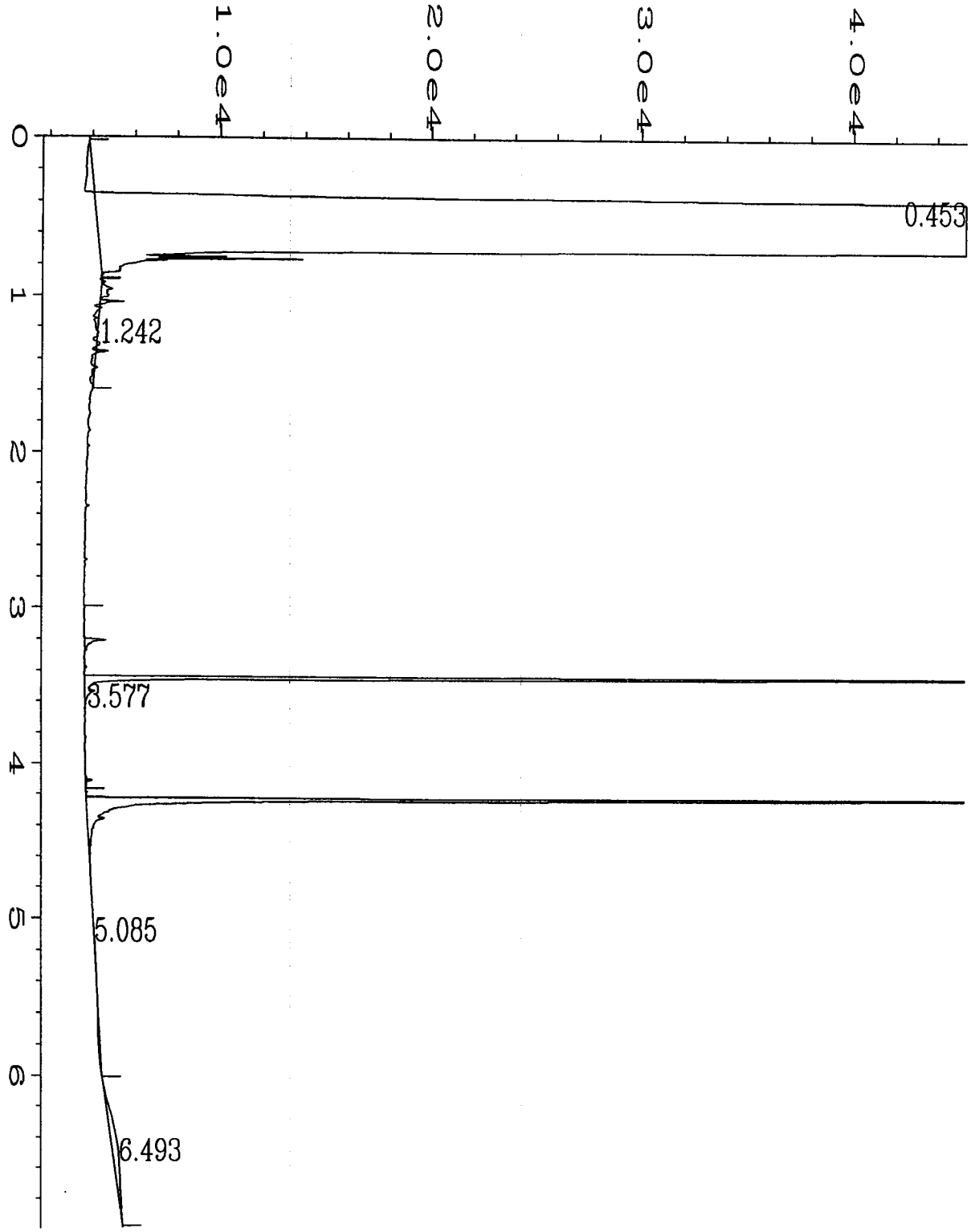
Pk#	Ret Time	Area	Height	Type	Width	Area %
1	3.340	3515	3718	BB	0.016	1.0144
2	3.400	23231	41748	BB	0.009	6.7043
3	3.450	133280	291913	BB	0.008	38.4628
4	3.521	6825	3967	BB	0.029	1.9696
5	3.553	14296	31293	BB	0.008	4.1256
6	3.614	1469	2127	BB	0.014	0.4239
7	3.665	2988	4170	BB	0.012	0.8622
8	3.711	40717	44711	BB	0.015	11.7503
9	3.840	7023	14857	BB	0.008	2.0267
10	3.891	1479	1826	BB	0.014	0.4270
11	3.975	2390	7529	BB	0.005	0.6896
12	4.057	460	600	BB	0.013	0.1329
13	4.105	2800	5604	BB	0.008	0.8081
14	4.146	458	448	BB	0.017	0.1322
15	4.231	104737	205118	BB	0.009	30.2257
16	4.353	499	1271	BB	0.007	0.1441
17	4.482	349	271	BB	0.023	0.1007

Total area = 346516

Last modified 4/27/15 mwdl TPHDSL.XLS

Data File Name : C:\HPCHEM\6\DATA\06-03-15\025F0501.D
Operator : mwdl Page Number : 1
Instrument : GC #6 Vial Number : 25
Sample Name : 506026-06 Injection Number : 1
Run Time Bar Code: Sequence Line : 5
Acquired on 42158 0.5548611
Report Created on: 03 Jun 15 01:29 PM Analysis Method : DX.MTH

Surr / IS	Ret Time window		Area	Avg. Area		
Triacontane						Calibrated
0	>4.86	<4.90	0	1.00E+05		2/1/11
Pentacosane						
96	>4.16	<4.3	104737	1.09E+05		12/31/14
o-Terphenyl						
108	>3.38	<3.47	133280	1.24E+05		12/31/14
Results			Area	Resp. factor		Calibrated
Diesel, start C10 - start C25						
312	>1.59	<4.16	3.09E+06	9.92E+03		12/31/14
NWTPH-DX, start C10 - end C36						
307	>1.59	<6.0	3124941	1.02E+04		12/31/14
Motor Oil, start C25 - end C36						
5	>4.16	<6.0	34517	6.49E+03		12/31/14
Heavy Oil, start C17 - end C36						
150	>2.99	<6.0	1312114	8.73E+03		12/31/14
Mineral Oil						
237	>2.99	<6.0	1312114	5.55E+03		1/8/15
Stoddard, start C8 - end C11						
205	>0.89	<2.99	2047166	9.99E+03		1/16/15
Kerosene, start C8 - end C20						
500	>0.89	<4.16	3324763	6.65E+03		1/10/13
C24-C38						
-11	>10.45	<19.8	-104737	9.42E+03		1/27/11



Data File Name	: C:\HPCHEM\6\DATA\06-03-15\026F0501.D		
Operator	: mwdl	Page Number	: 1
Instrument	: GC #6	Vial Number	: 26
Sample Name	: 506026-07	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 5
Acquired on	: 03 Jun 15 01:30 PM	Instrument Method:	DX.MTH
Report Created on:	03 Jun 15 01:40 PM	Analysis Method	: DX.MTH

Area Percent Report

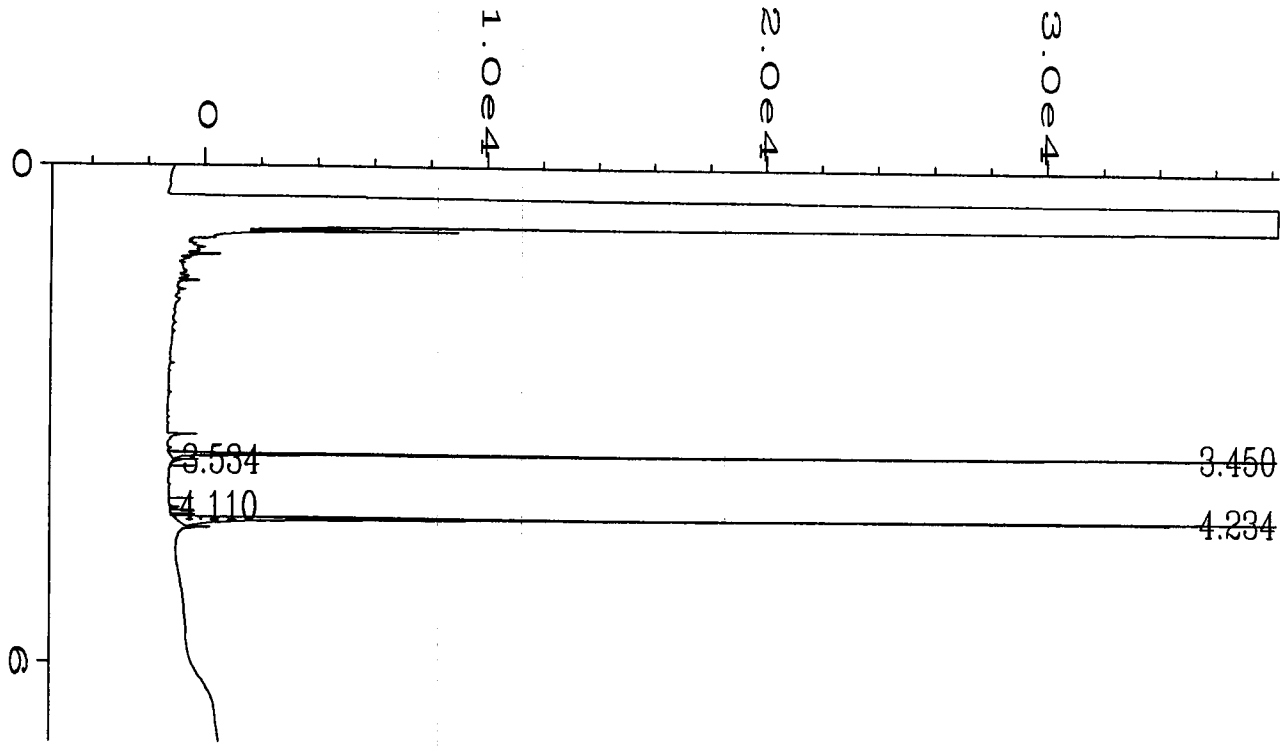
Data File Name : C:\HPCHEM\6\DATA\06-03-15\026F0501.D
Operator : mwdl
Instrument : GC #6
Sample Name : 506026-07
Run Time Bar Code:
Acquired on : 03 Jun 15 01:30 PM
Report Created on: 03 Jun 15 01:40 PM

Page Number : 1
Vial Number : 26
Injection Number : 1
Sequence Line : 5
Instrument Method: DX.MTH
Analysis Method : DX.MTH

Sig. 1 in C:\HPCHEM\6\DATA\06-03-15\026F0501.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.453	1.32368E+009	9.84456E+007	BB +	0.000	99.9798
2	1.242	154	1240	BV +	0.000	0.0000
3	3.577	144063	287861	PVA	0.008	0.0109
4	5.085	114833	192285	PV +	0.000	0.0087
5	6.493	9038	485	PB +	0.000	0.0007

Total area = 1.32395E+009



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Area Percent Report

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Data File Name : C:\HPCHEM\6\DATA\06-03-15\026R0501.D
Operator : mwdl
Instrument : GC #6
Sample Name : 506026-07
Run Time Bar Code:
Acquired on : 03 Jun 15 01:30 PM
Report Created on: 03 Jun 15 01:40 PM

Page Number : 1
Vial Number : 26
Injection Number : 1
Sequence Line : 5
Instrument Method: DX.MTH
Analysis Method : istnddx.MTH

Sig. 2 in C:\HPCHEM\6\DATA\06-03-15\026R0501.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	3.450	141917	299137	BB	0.019	56.0639
2	3.534	463	328	BB	0.024	0.1828
3	4.110	221	330	BB	0.015	0.0873
4	4.234	110533	199167	BB	0.016	43.6660

Total area = 253133

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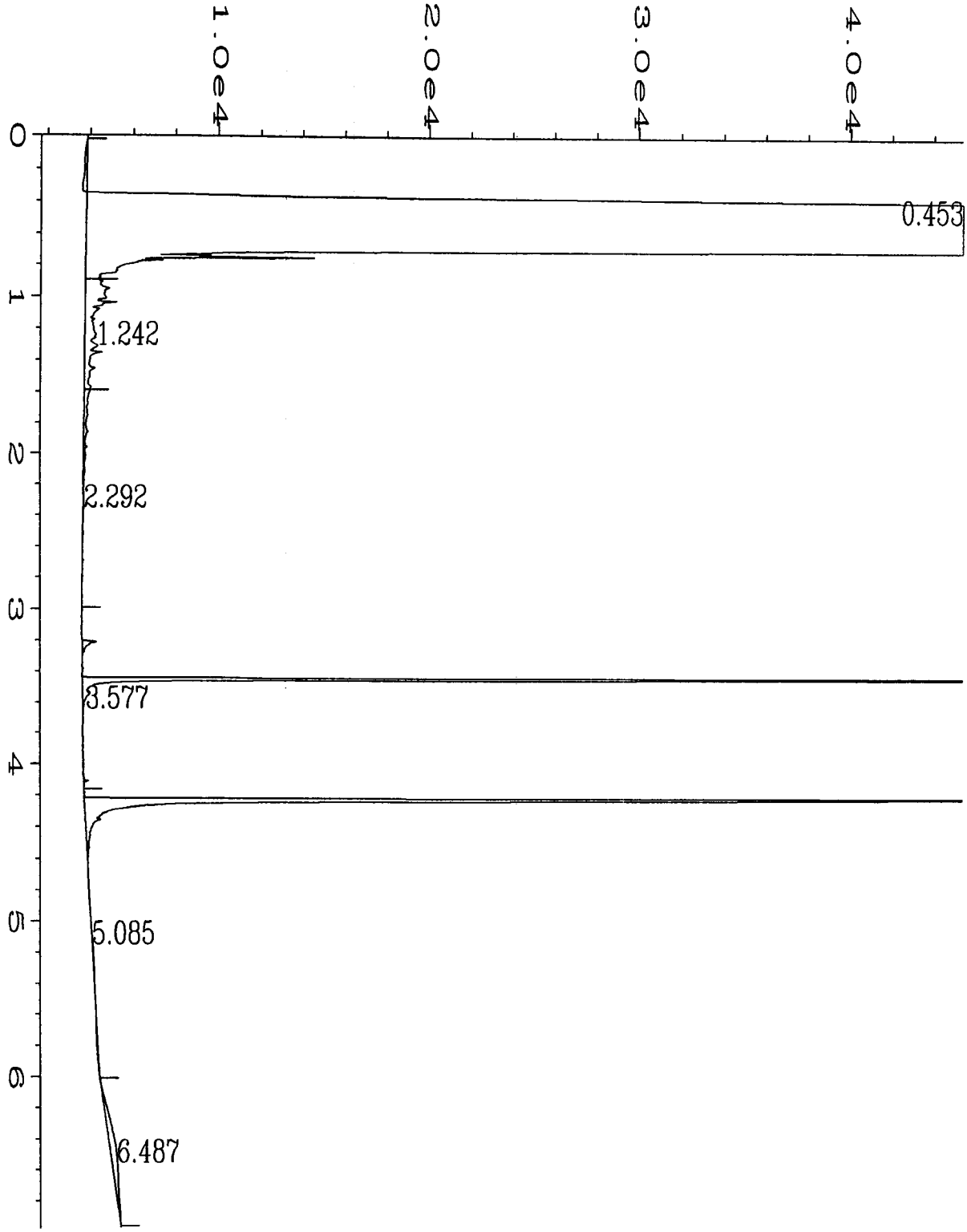
Last modified 4/27/15 mwdl			TPHDSL.XLS			
Data File Name	: C:\HPCHEM\6\DATA\06-03-15\026F0501.D					
Operator	: mwdl			Page Number	: 1	
Instrument	: GC #6			Vial Number	: 26	
Sample Name	: 506026-07			Injection Number	: 1	
Run Time Bar Code:				Sequence Line	: 5	
Acquired on	42158	0.5625				
Report Created on: 03 Jun 15 01:40 PM				Analysis Method	: DX.MTH	
Surr / IS	**Ret Time window**		**Area**	**Avg. Area**		
Triacontane					Calibrated	
0	>4.86	<4.90	0	1.00E+05	2/1/11	
Pentacosane						
101	>4.16	<4.3	110533	1.09E+05	12/31/14	
o-Terphenyl						
115	>3.38	<3.47	141917	1.24E+05	12/31/14	
Results			Area	Resp. factor	Calibrated	
Diesel, start C10 - start C25						
0	>1.59	<4.16	2.15E+03	9.92E+03	12/31/14	
NWTPH-DX, start C10 - end C36						
1	>1.59	<6.0	6446	1.02E+04	12/31/14	
Motor Oil, start C25 - end C36						
1	>4.16	<6.0	4300	6.49E+03	12/31/14	
Heavy Oil, start C17 - end C36						
1	>2.99	<6.0	6446	8.73E+03	12/31/14	
Mineral Oil						
1	>2.99	<6.0	6446	5.55E+03	1/8/15	
Stoddard, start C8 - end C11						
0	>0.89	<2.99	154	9.99E+03	1/16/15	
Kerosene, start C8 - end C20						
0	>0.89	<4.16	2300	6.65E+03	1/10/13	
C24-C38						
-12	>10.45	<19.8	-110533	9.42E+03	1/27/11	



Data File Name	: C:\HPCHEM\6\DATA\06-03-15\027F0501.D		
Operator	: mwdl	Page Number	: 1
Instrument	: GC #6	Vial Number	: 27
Sample Name	: 506026-08	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 5
Acquired on	: 03 Jun 15 01:40 PM	Instrument Method	: DX.MTH
Report Created on	: 03 Jun 15 01:51 PM	Analysis Method	: DX.MTH

Area Percent Report

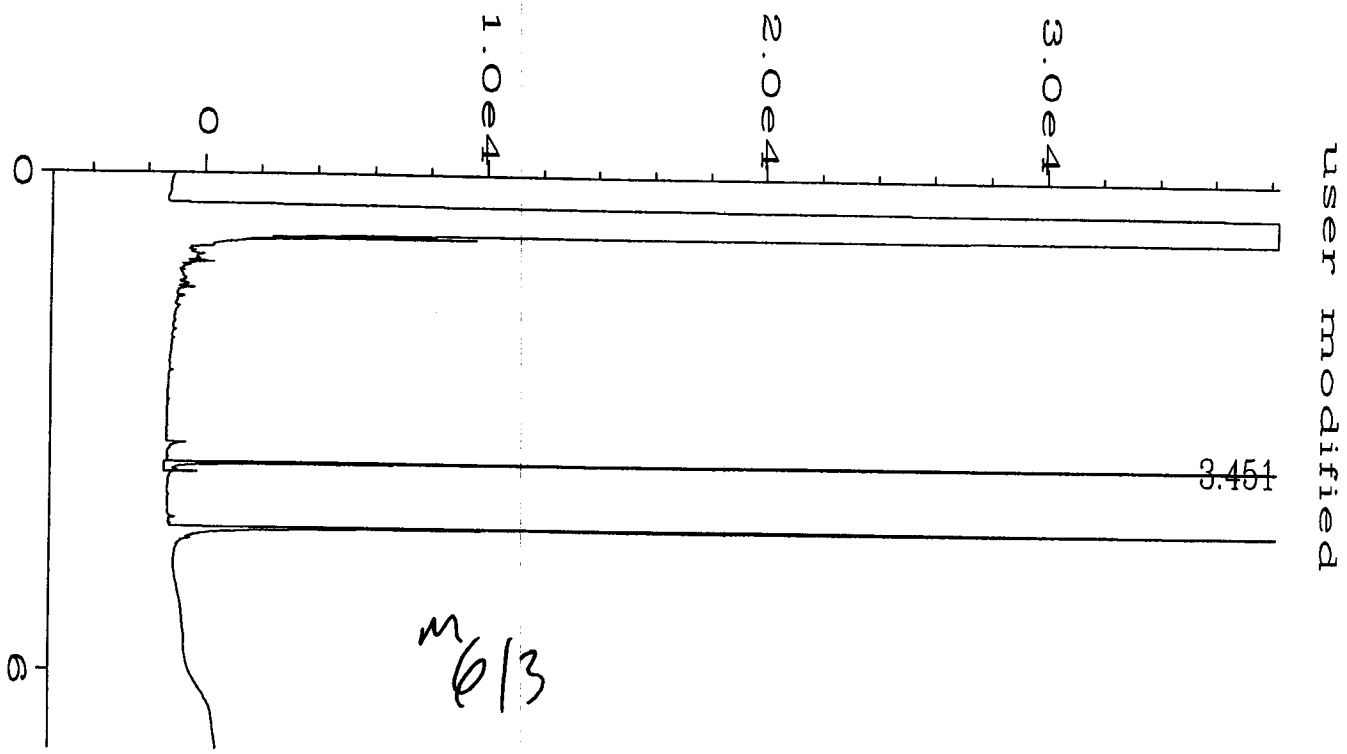
Data File Name : C:\HPCHEM\6\DATA\06-03-15\027F0501.D
Operator : mwdl
Instrument : GC #6
Sample Name : 506026-08
Run Time Bar Code:
Acquired on : 03 Jun 15 01:40 PM
Report Created on: 03 Jun 15 01:51 PM

Page Number : 1
Vial Number : 27
Injection Number : 1
Sequence Line : 5
Instrument Method: DX.MTH
Analysis Method : DX.MTH

Sig. 1 in C:\HPCHEM\6\DATA\06-03-15\027F0501.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.453	1.26063E+009	9.86511E+007	BVA	0.213	99.9788
2	1.242	20338	1504	VV +	0.000	0.0016
3	2.292	5127	323	VV +	0.000	0.0004
4	3.577	131808	239654	PB +	0.000	0.0105
5	5.085	101229	157686	BV +	0.000	0.0080
6	6.487	8546	480	PB +	0.000	0.0007

Total area = 1.2609E+009



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Area Percent Report

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Data File Name : C:\HPCHEM\6\DATA\06-03-15\027R0501.D
Operator : mwdl
Instrument : GC #6
Sample Name : 506026-08
Run Time Bar Code:
Acquired on : 03 Jun 15 01:40 PM
Report Created on: 04 Jun 15 09:17 AM

Page Number : 1
Vial Number : 27
Injection Number : 1
Sequence Line : 5
Instrument Method: DX.MTH
Analysis Method : END.MTH

Sig. 2 in C:\HPCHEM\6\DATA\06-03-15\027R0501.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	3.451	120368	261315	MM	0.008	100.0000

Total area = 120368

User Modified

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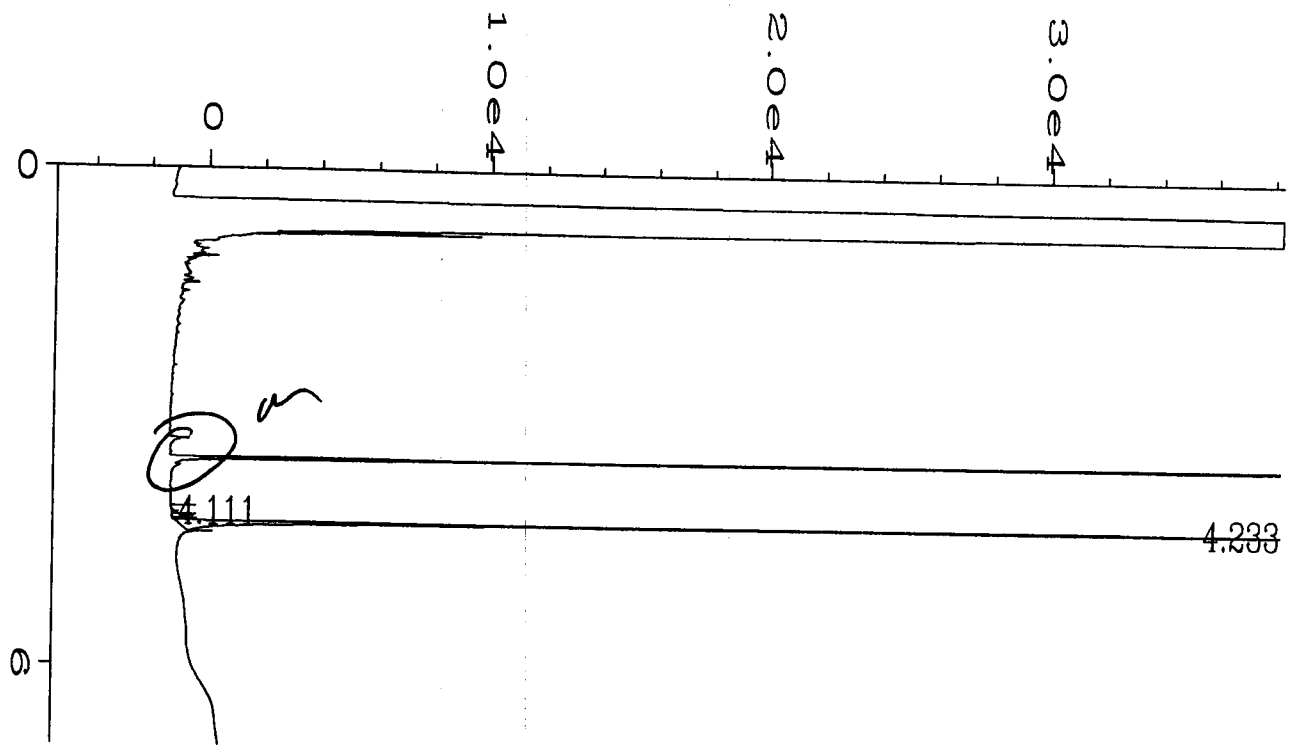

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Area Percent Report

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Data File Name : C:\HPCHEM\6\DATA\06-03-15\027R0501.D
Operator : mwdl
Instrument : GC #6
Sample Name : 506026-08
Run Time Bar Code:
Acquired on : 03 Jun 15 01:40 PM
Report Created on: 03 Jun 15 01:51 PM

Page Number : 1
Vial Number : 27
Injection Number : 1
Sequence Line : 5
Instrument Method: DX.MTH
Analysis Method : istnddx.MTH

Sig. 2 in C:\HPCHEM\6\DATA\06-03-15\027R0501.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	4.111	193	256	BB	0.013	0.1993
2	4.233	96812	162769	BB	0.022	99.8007

Total area = 97005

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Last modified 4/27/15 mwdl			TPHDSL.XLS			
Data File Name : C:\HPCHEM\6\DATA\06-03-15\027F0501.D						
Operator : mwdl				Page Number	: 1	
Instrument : GC #6				Vial Number	: 27	
Sample Name : 506026-08				Injection Number	: 1	
Run Time Bar Code:				Sequence Line	: 5	
Acquired on	42158	0.5694444				
Report Created on: 03 Jun 15 01:51 PM				Analysis Method	: DX.MTH	
Surr / IS	**Ret Time window**		**Area**	**Avg. Area**		
Triacontane						Calibrated
0	>4.86	<4.90	0	1.00E+05		2/1/11
Pentacosane						
89	>4.16	<4.3	96812	1.09E+05		12/31/14
o-Terphenyl			120368			
97 0	>3.38	<3.47	0	1.24E+05	M 6/3	12/31/14
Results			Area	Resp. factor		Calibrated
Diesel, start C10 - start C25			16632			
2 14	>1.59	<4.16	1.37E+05	9.92E+03		12/31/14
NWTPH-DX, start C10 - end C36			20984			
2 14	>1.59	<6.0	141352	1.02E+04	M 6/3	12/31/14
Motor Oil, start C25 - end C36						
1	>4.16	<6.0	4417	6.49E+03		12/31/14
Heavy Oil, start C17 - end C36						
16	>2.99	<6.0	136225	8.73E+03		12/31/14
Mineral Oil						
25	>2.99	<6.0	136225	5.55E+03		1/8/15
Stoddard, start C8 - end C11						
3	>0.89	<2.99	25465	9.99E+03		1/16/15
Kerosene, start C8 - end C20						
24	>0.89	<4.16	157273	6.65E+03		1/10/13
C24-C38						
-10	>10.45	<19.8	-96812	9.42E+03		1/27/11