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

F&B Project 506025

 506025

MP 06/02/15 B05

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

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

No: 10-053115-175909-0011
Cooler #: 05
Lab: Friendman & Bruya
Lab Phone: (206) 285-8282

Lab #	Collected	Sample Time	Sample #	Location	Analyses		Matrix	Numb Cont	Container	Preservative	Lab QC
01 A-B	5/29/2015	12:16	15053105	BH04GW	Oil Fingerprinting	TPH-Dx	Ground Water	2	32 oz Amber	Wet Ice	N
02	5/29/2015	16:17	15053106	BH05GW	Oil Fingerprinting		Ground Water	2	32 oz Amber	Wet Ice	N
03	5/30/2015	11:30	15053108	BH06GW	Oil Fingerprinting		Ground Water	2	32 oz Amber	Wet Ice	N
04	5/30/2015	14:28	15053109	BH08GW	Oil Fingerprinting		Ground Water	2	32 oz Amber	Wet Ice	N
05	5/30/2015	11:00	15053107	MH01WW	Oil Fingerprinting		Waste Water	2	32 oz Amber	Wet Ice	N

Special Instructions: 1 week TAT. Preliminary results to mwoodke@ene.com
TPH-Dx added per Kurt Johnson / Mark Woodke [illegible] 6/4/15

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
to lab	Maren Fulto E&E	6/1/15 07:51	[illegible] FCBI	6/2/15 10:40	

Samples received at 2 °C

SAMPLE CONDITION UPON RECEIPT CHECKLIST

PROJECT # 506025 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 2 °C

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

Number of days samples have been sitting prior to receipt at laboratory 2 ≥ 3 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 _____

NWTPH-Dx
Laboratory Worksheets

F&B Project 506025

TPH AS DIESEL/MOTOR OIL EXTRACTION WORKSHEET (WATER)

Project #: 506025
Client: Ecology & Environment
QC Batch ID: 05-1045
Samples checked against COC (HN)

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/Motor Oil)
- ☐ 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
			3 x 60 mL	~~2 mL~~ 5 mL					
01 A	<2	1,000		5 mL					
02									Emulsion
03									
04									
05									Emulsion
	(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)		25 µl	1,000	Pentacosane/o-terphenyl			
	✓	50 µl	1,000	Pentacosane/o-terphenyl	45-50	(HN)	6/3/15
		25 µl	1,000	Triacontane/Pentacosane/o-terphenyl			
		50 µl	1,000	Triacontane/Pentacosane/o-terphenyl			
Acid (HCl)							

Project Leader Initials: GP

NOTES: Need c-grams

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

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 Cu Filter	H_2SO_4	Observations
MB	<2	1,000	3X60 HN	5 mL						
LCS	/	/	/	/						
LCSD	/	/	/	/						
	HN			6/3						
Initials										

Samples in Batch

5T06025-01	/ 05	/ 04	/ 04	
/ 02	5T06026-01	5T06058-01		
/ 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 Pentadecane/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 50 Diesel Conc.	250 50 Diesel Ext Conc.	250 250 Motor Oil Conc.	250 250 Heavy Oil/C Conc.	50 50 C12-24 Conc.	50 50 Stoddard Conc.	50 50 Kerosene Conc.	250 500 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	Reanalysis
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	Lost
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]

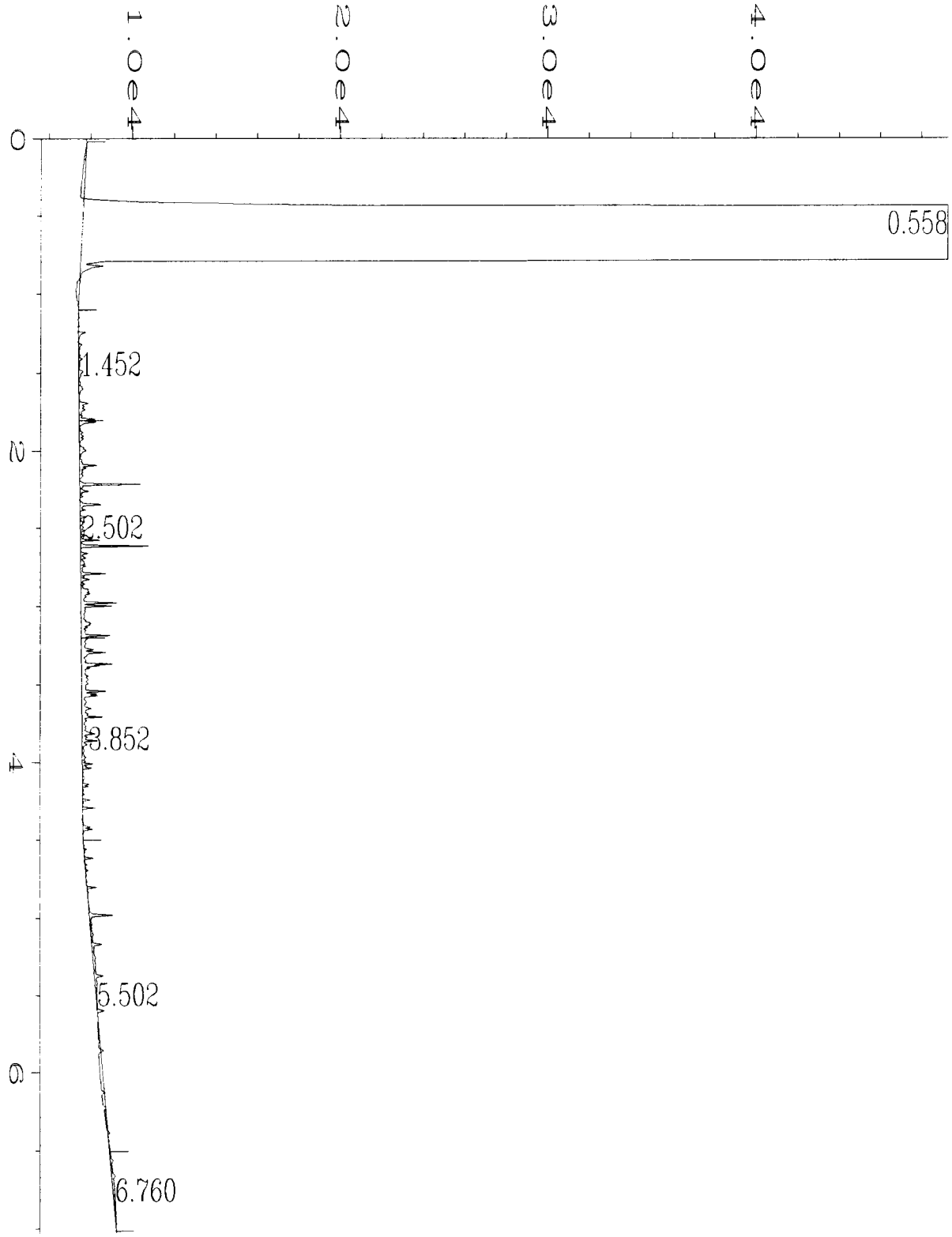
Analyzed on: 6/3/15

Reviewed by: MK 6/4/14

NWTPH-Dx
Initial Calibrations

F&B Project 506025

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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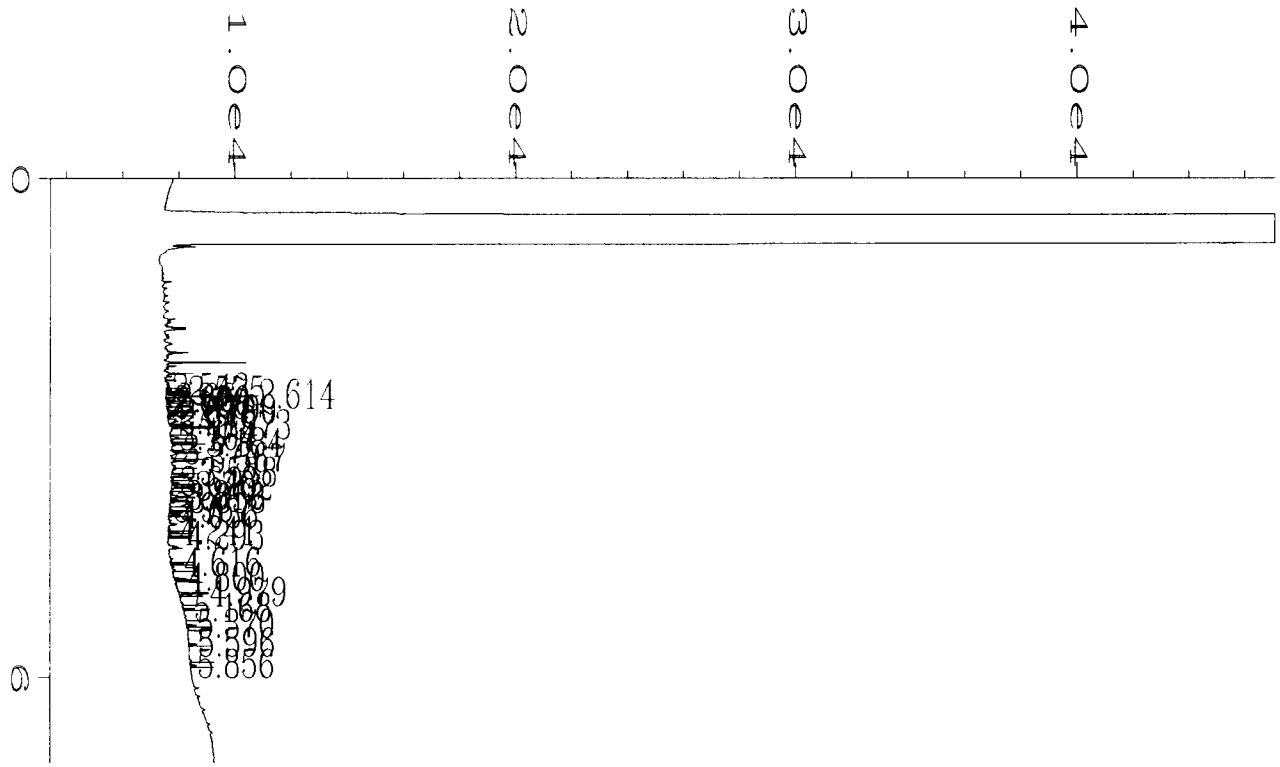

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Area Percent Report

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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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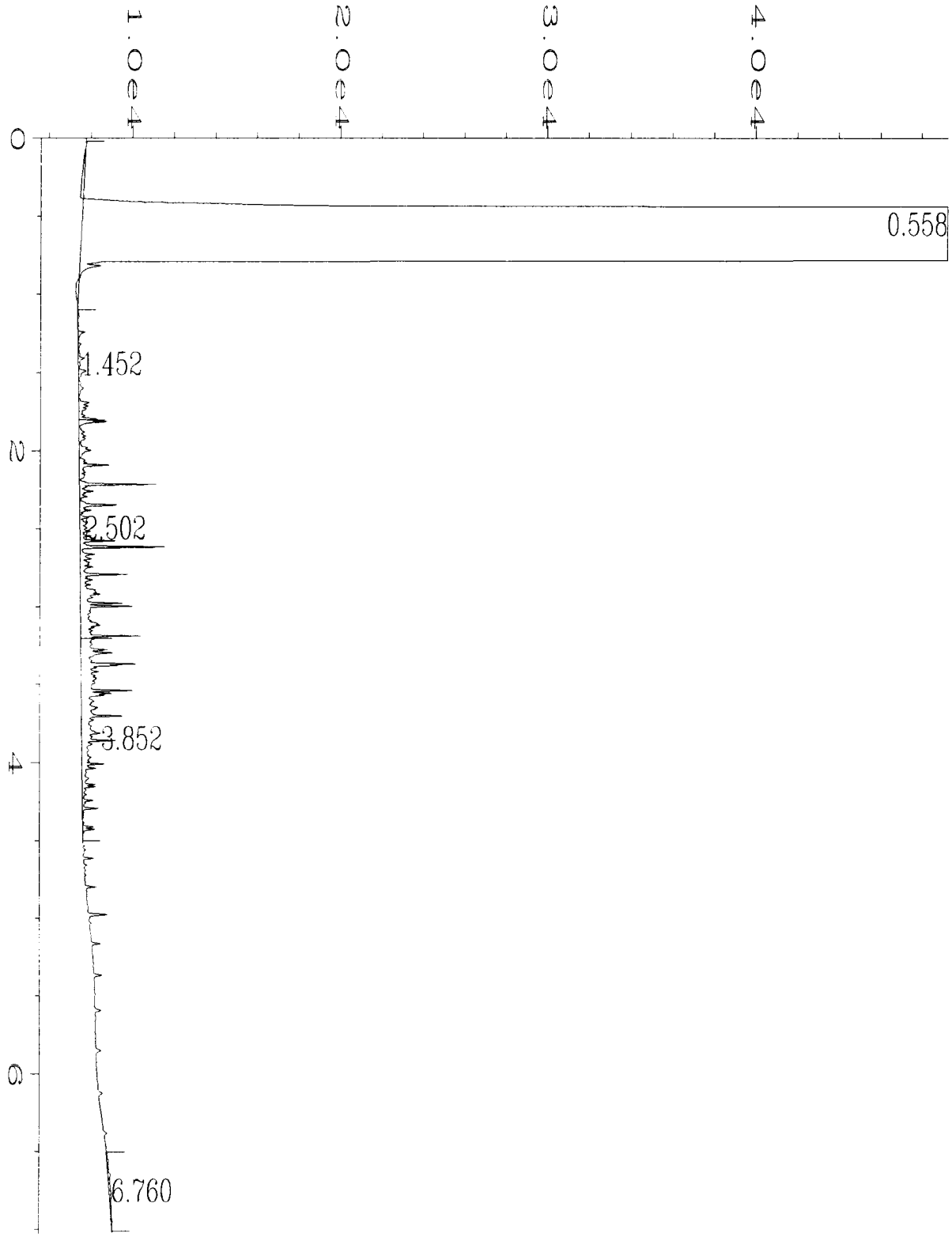
Last modified 1/15/15 mwdl			TPHDSL.XLS			
Data File Name	: C:\HPCHEM\1\DATA\01-14-15\021F0701.D					
Operator	: mwdl			Page Number	: 1	
Instrument	: GC1			Vial Number	: 21	
Sample Name	: 5ppm dx 44-94			Injection Number	: 1	
Run Time Bar Code:				Sequence Line	: 7	
Acquired on	1/14/15	16:49		Instrume	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

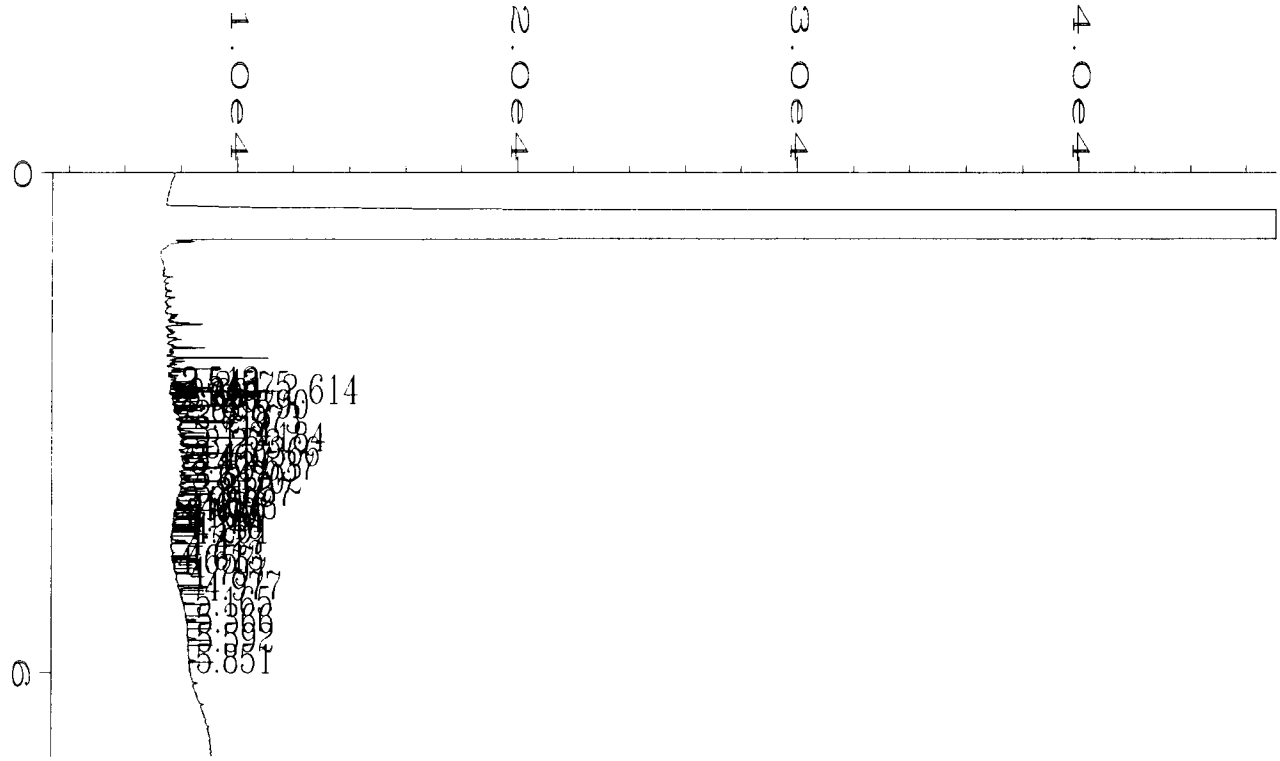
Data File Name : C:\HPCHEM\1\DATA\01-14-15\022F0701.D
Operator : mwdl
Instrument : GC1
Sample Name : 10ppm dx 44-94
Run Time Bar Code:
Acquired on : 14 Jan 15 04:59 PM
Report Created on: 15 Jan 15 10:17 AM

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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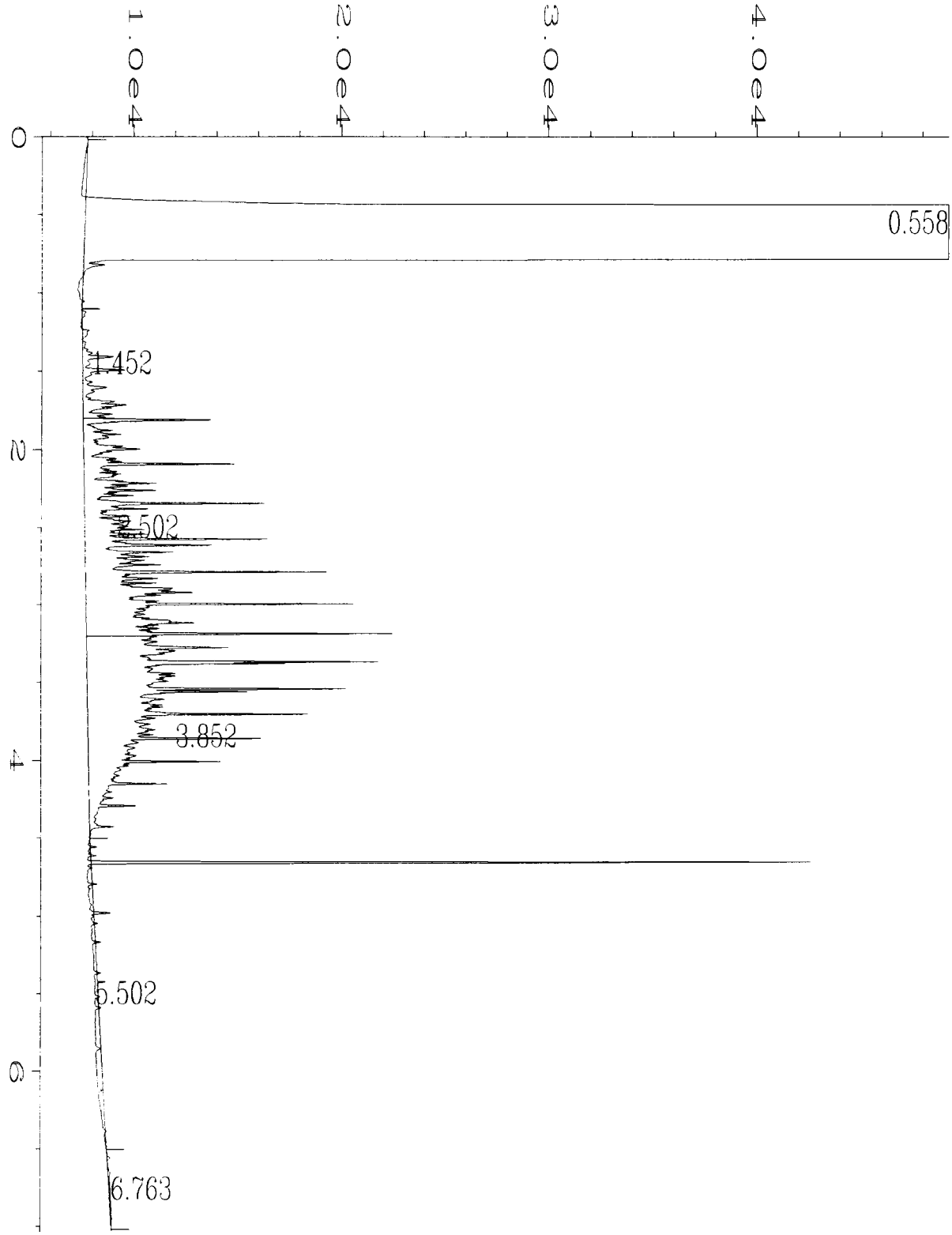
Last modified 1/15/15 mwdl			TPHDSL.XLS			
Data File Name	: C:\HPCHEM\1\DATA\01-14-15\022F0701.D					
Operator	: mwdl			Page Number	: 1	
Instrument	: GC1			Vial Number	: 22	
Sample Name	: 10ppm dx 44-94			Injection Number	: 1	
Run Time Bar Code:				Sequence Line	: 7	
Acquired on	1/14/15	16:59		Instrume	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

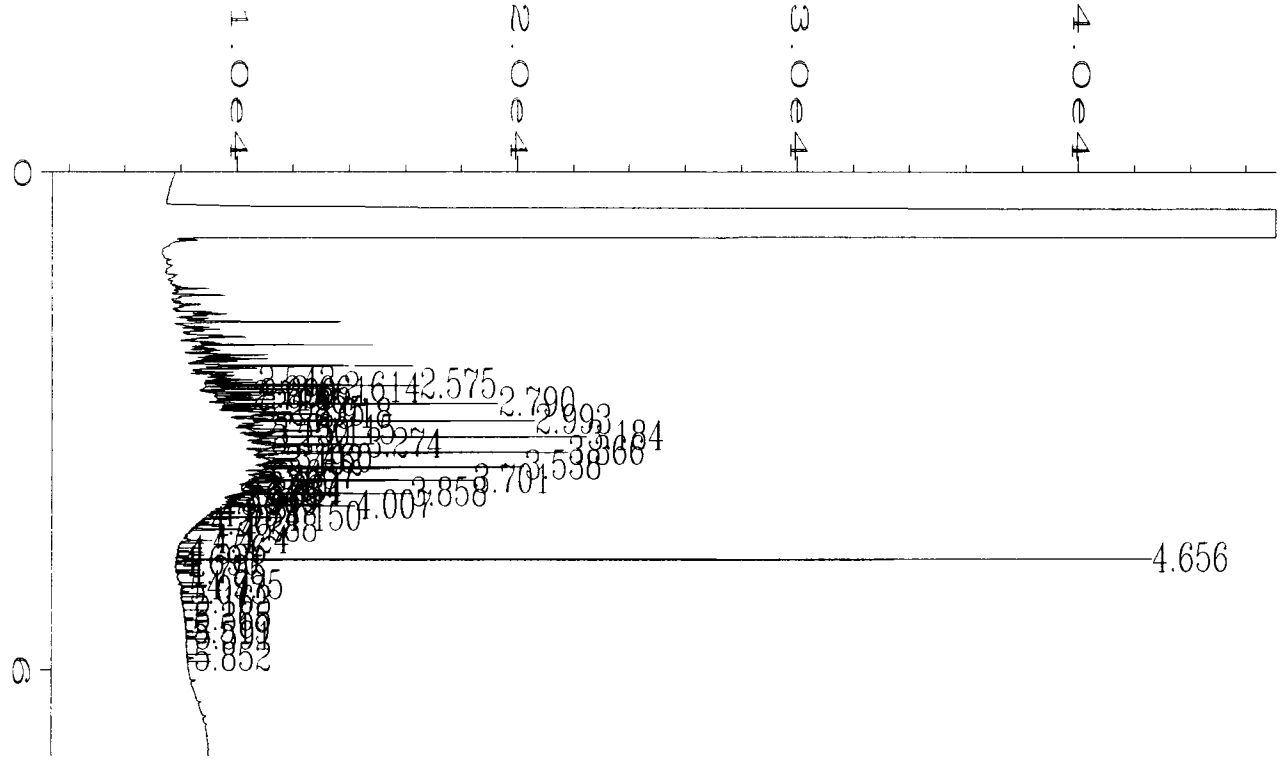
Data File Name : C:\HPCHEM\1\DATA\01-14-15\023F0701.D
Operator : mwdl
Instrument : GC1
Sample Name : 50ppm dx 44-94
Run Time Bar Code:
Acquired on : 14 Jan 15 05:10 PM
Report Created on: 15 Jan 15 10:17 AM

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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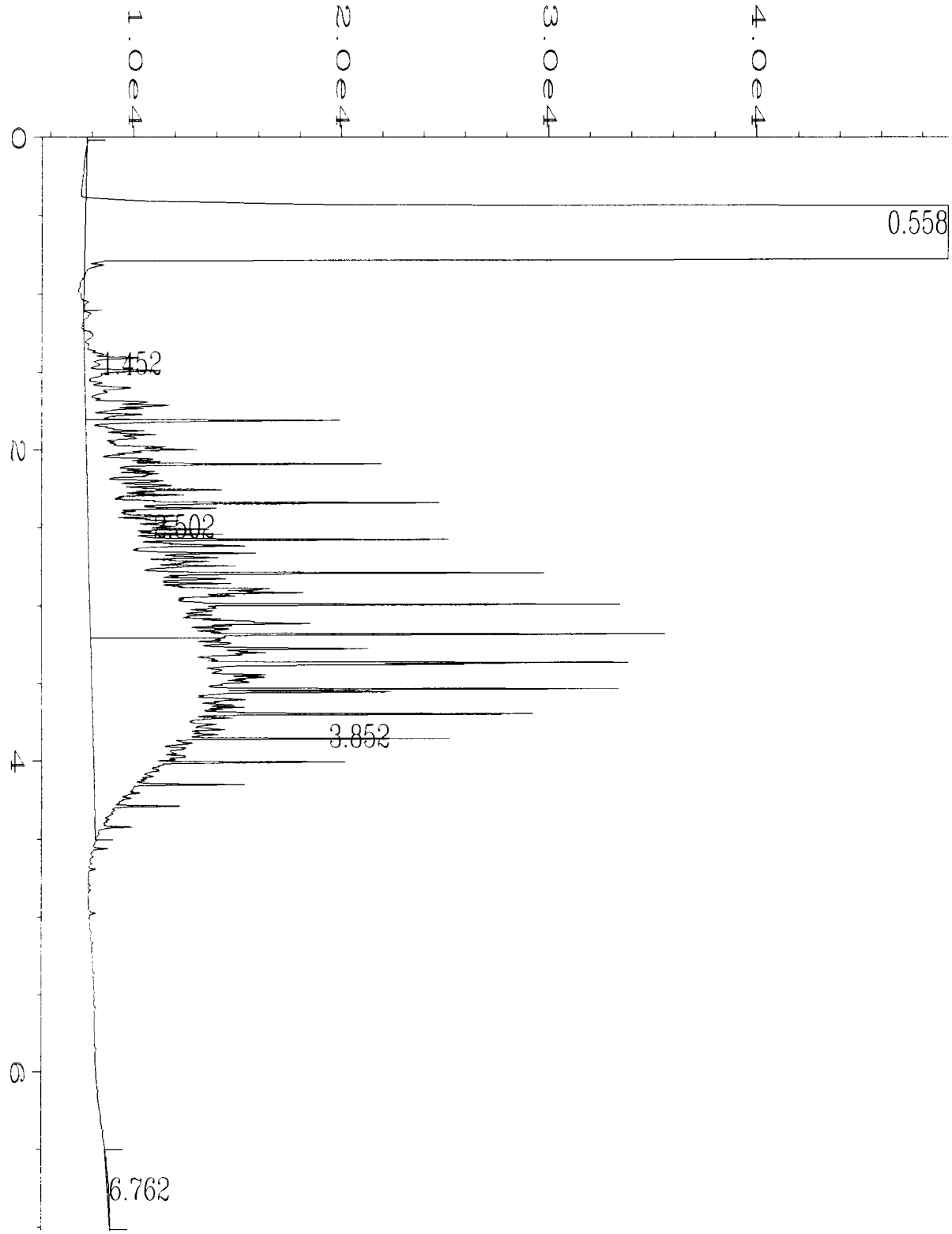
Last modified 1/15/15 mwdl			TPHDSL.XLS			
Data File Name	: C:\HPCHEM\1\DATA\01-14-15\023F0701.D					
Operator	: mwdl			Page Number	: 1	
Instrument	: GC1			Vial Number	: 23	
Sample Name	: 50ppm dx 44-94			Injection Number	: 1	
Run Time Bar Code:				Sequence Line	: 7	
Acquired on	1/14/15	17:10		Instrume	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

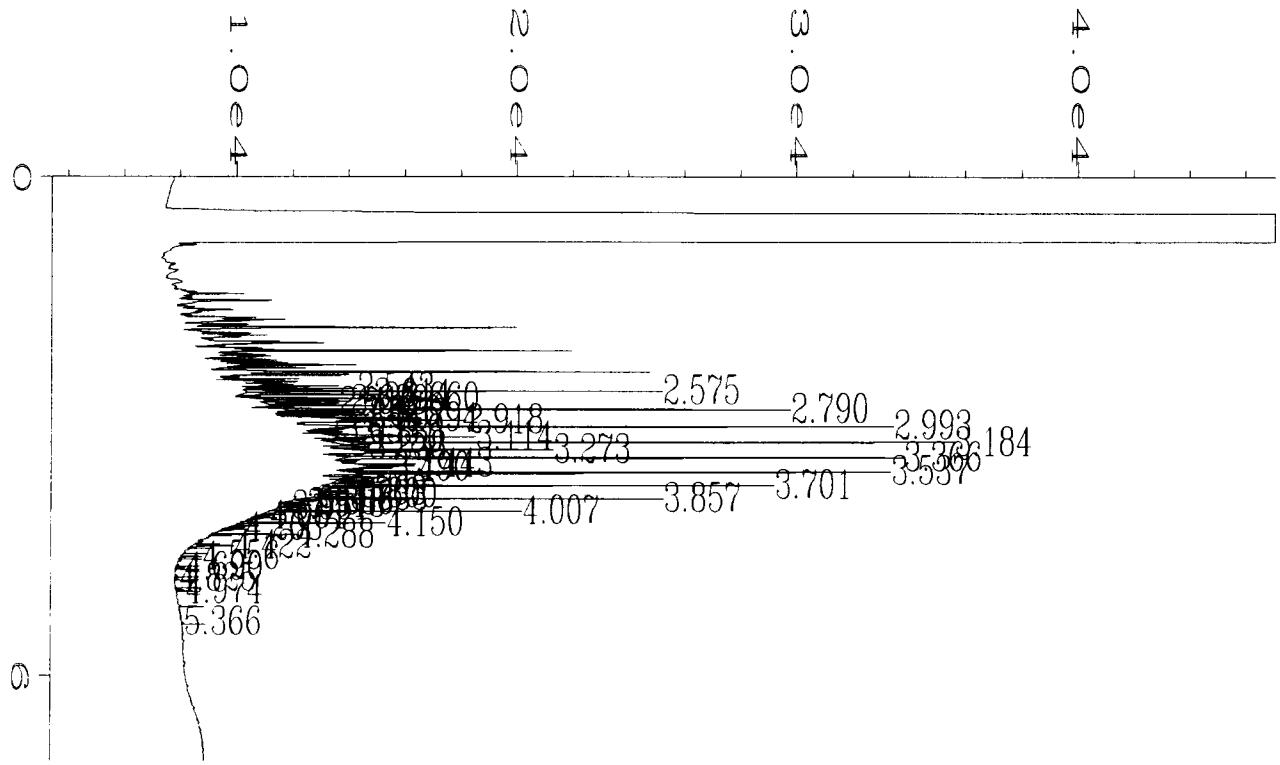
Data File Name : C:\HPCHEM\1\DATA\01-14-15\024F0701.D
Operator : mwdl
Instrument : GC1
Sample Name : 100ppm dx 44-94
Run Time Bar Code:
Acquired on : 14 Jan 15 05:21 PM
Report Created on: 15 Jan 15 10:17 AM

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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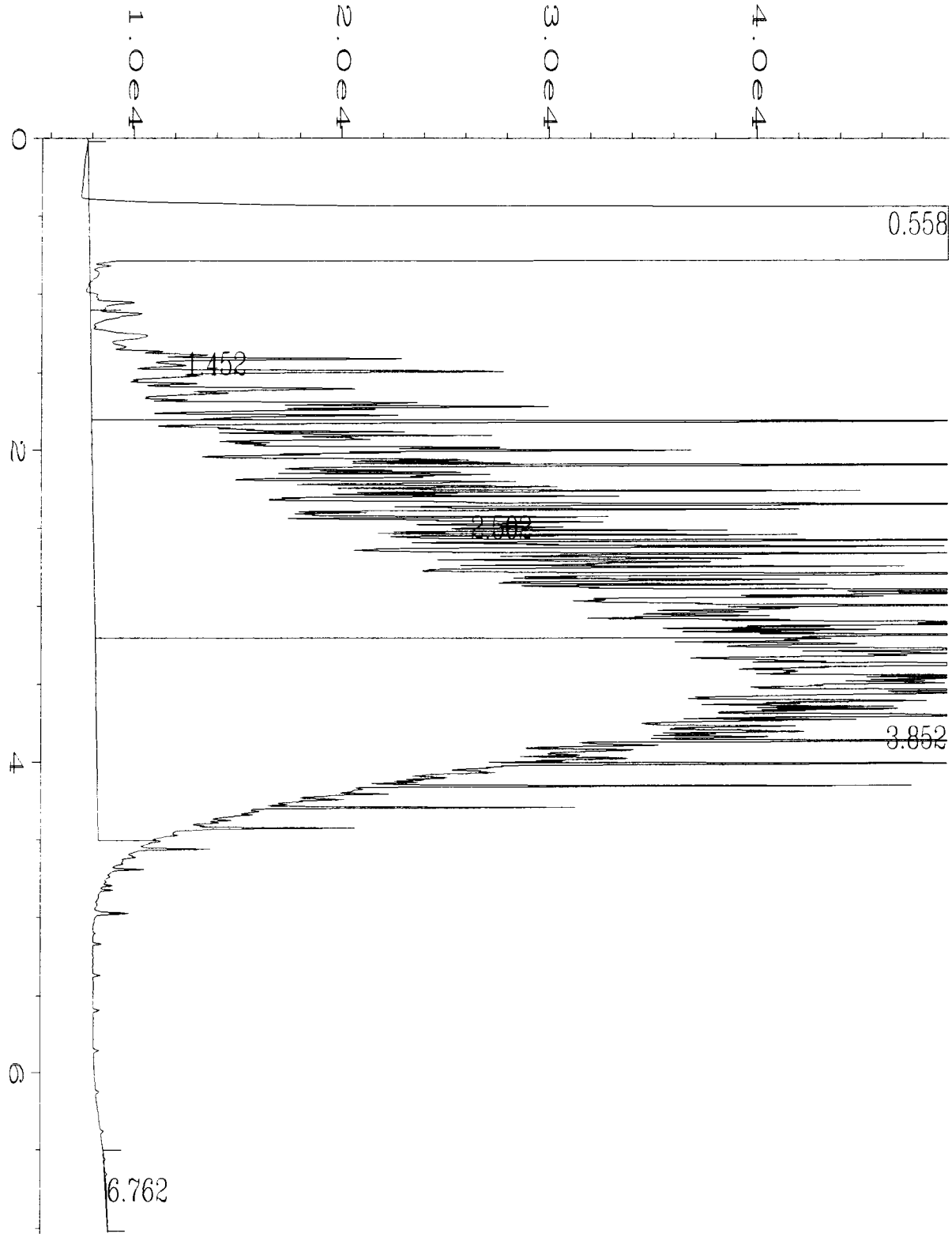
Last modified 1/15/15 mwdl			TPHDSL.XLS			
Data File Name	: C:\HPCHEM\1\DATA\01-14-15\024F0701.D					
Operator	: mwdl			Page Number	: 1	
Instrument	: GC1			Vial Number	: 24	
Sample Name	: 100ppm dx 44-94			Injection Number	: 1	
Run Time Bar Code:				Sequence Line	: 7	
Acquired on	1/14/15	17:21		Instrume	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

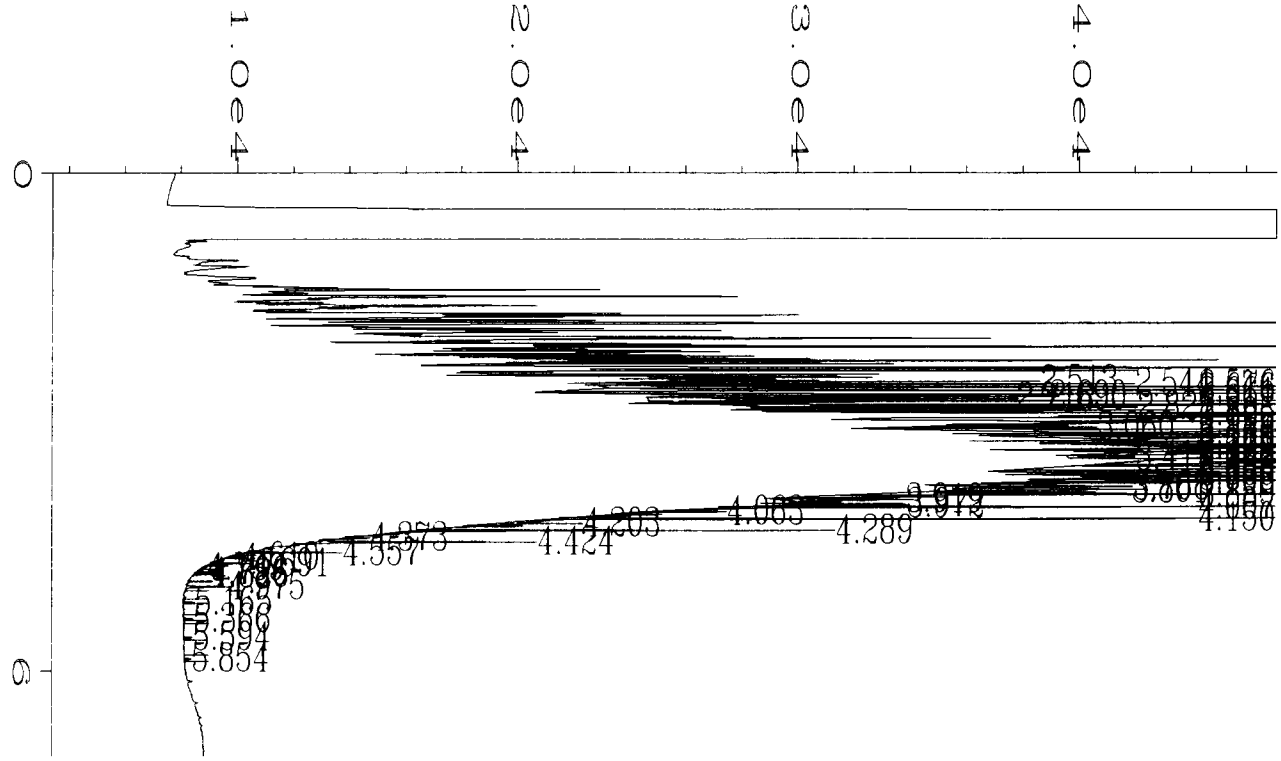
Data File Name : C:\HPCHEM\1\DATA\01-14-15\025F0701.D
Operator : mwdl
Instrument : GC1
Sample Name : 500ppm dx 44-94
Run Time Bar Code:
Acquired on : 14 Jan 15 05:31 PM
Report Created on: 15 Jan 15 10:18 AM

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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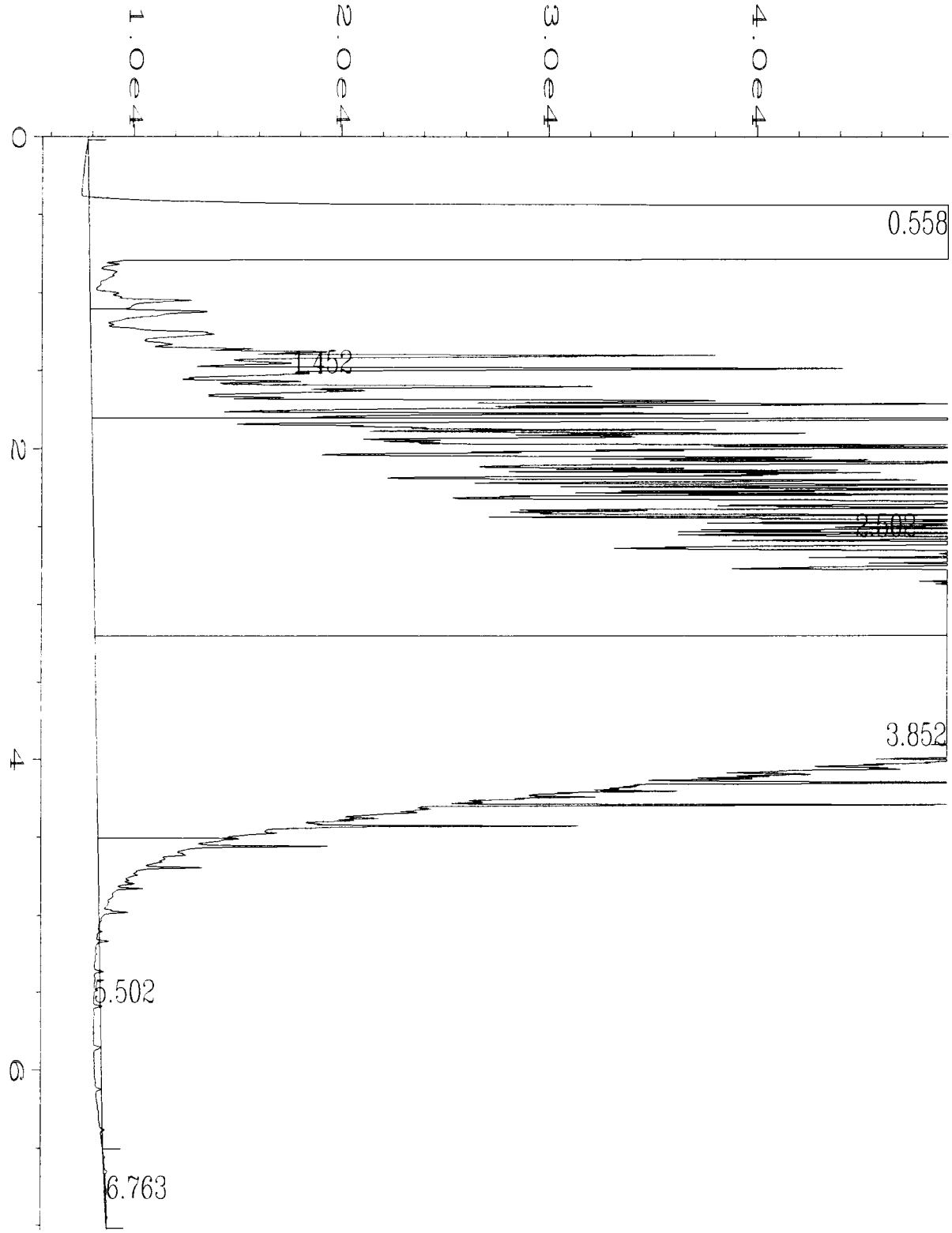
Last modified 1/15/15 mwdl			TPHDSL.XLS			
Data File Name	: C:\HPCHEM\1\DATA\01-14-15\025F0701.D					
Operator	: mwdl			Page Number	: 1	
Instrument	: GC1			Vial Number	: 25	
Sample Name	: 500ppm dx 44-94			Injection Number	: 1	
Run Time Bar Code:				Sequence Line	: 7	
Acquired on	1/14/15	17:31		Instrume	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

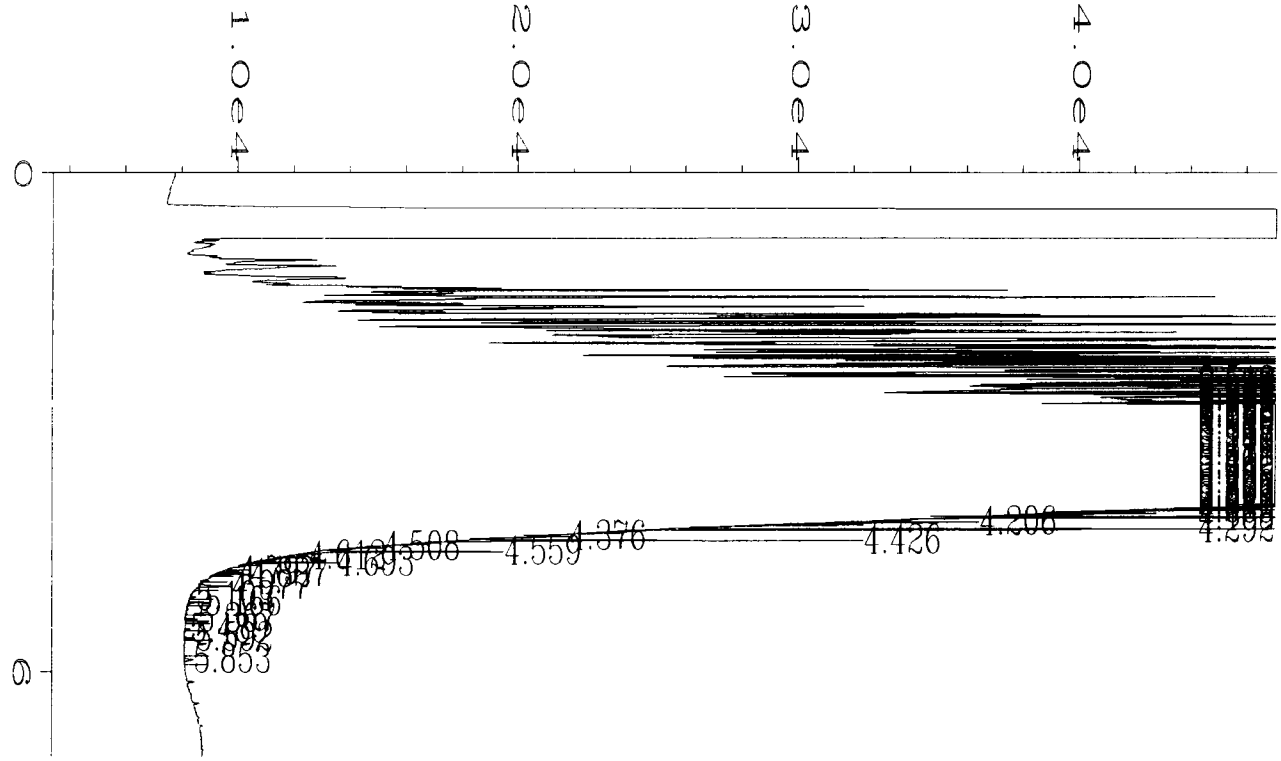
Data File Name : C:\HPCHEM\1\DATA\01-14-15\026F0701.D
Operator : mwdl
Instrument : GC1
Sample Name : 1000ppm dx 44-94
Run Time Bar Code:
Acquired on : 14 Jan 15 05:42 PM
Report Created on: 15 Jan 15 10:18 AM

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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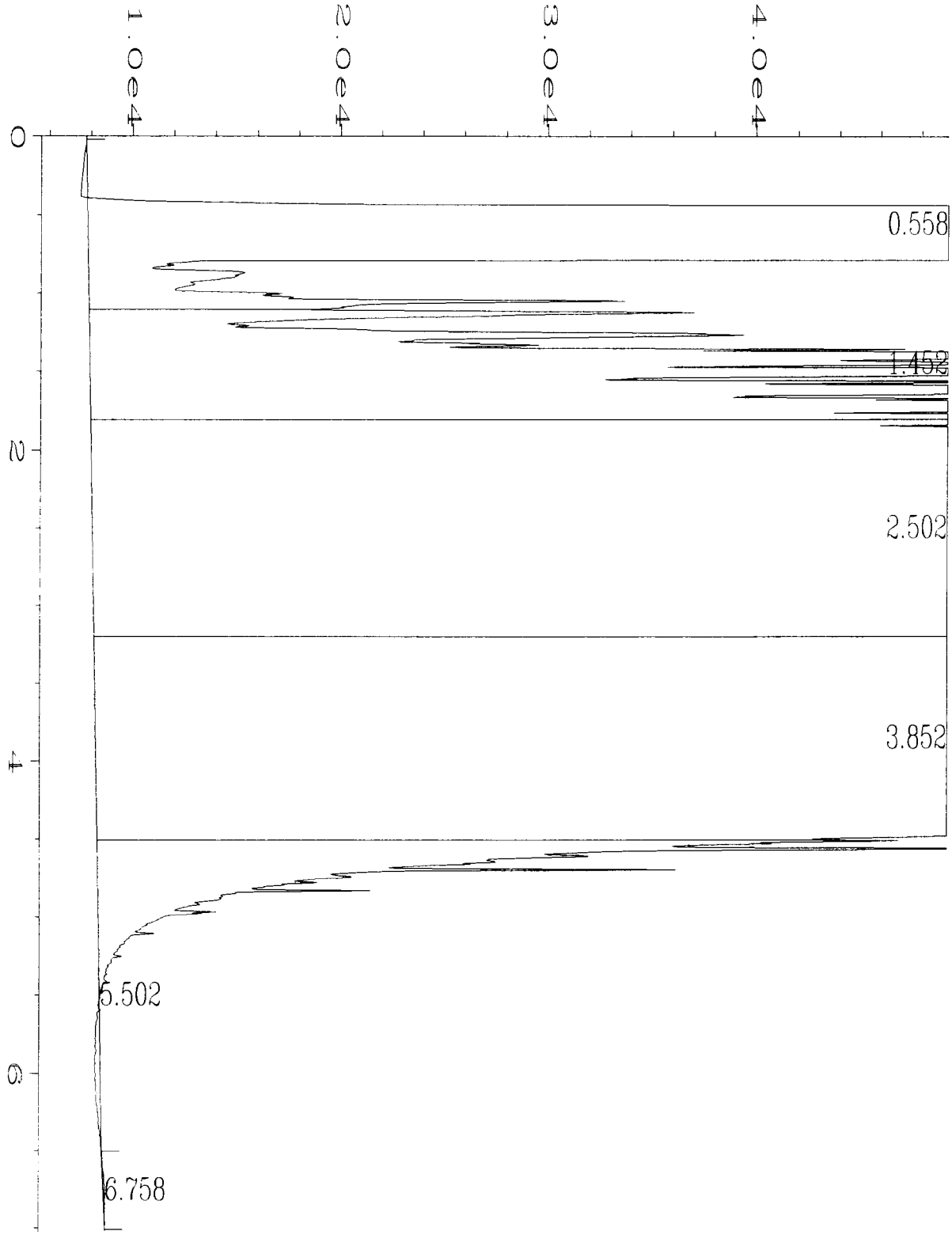
Last modified 1/15/15 mwdl			TPHDSL.XLS			
Data File Name	: C:\HPCHEM\1\DATA\01-14-15\026F0701.D					
Operator	: mwdl			Page Number	: 1	
Instrument	: GC1			Vial Number	: 26	
Sample Name	: 1000ppm dx 44-94			Injection Number	: 1	
Run Time Bar Code:				Sequence Line	: 7	
Acquired on	1/14/15	17:42		Instrume	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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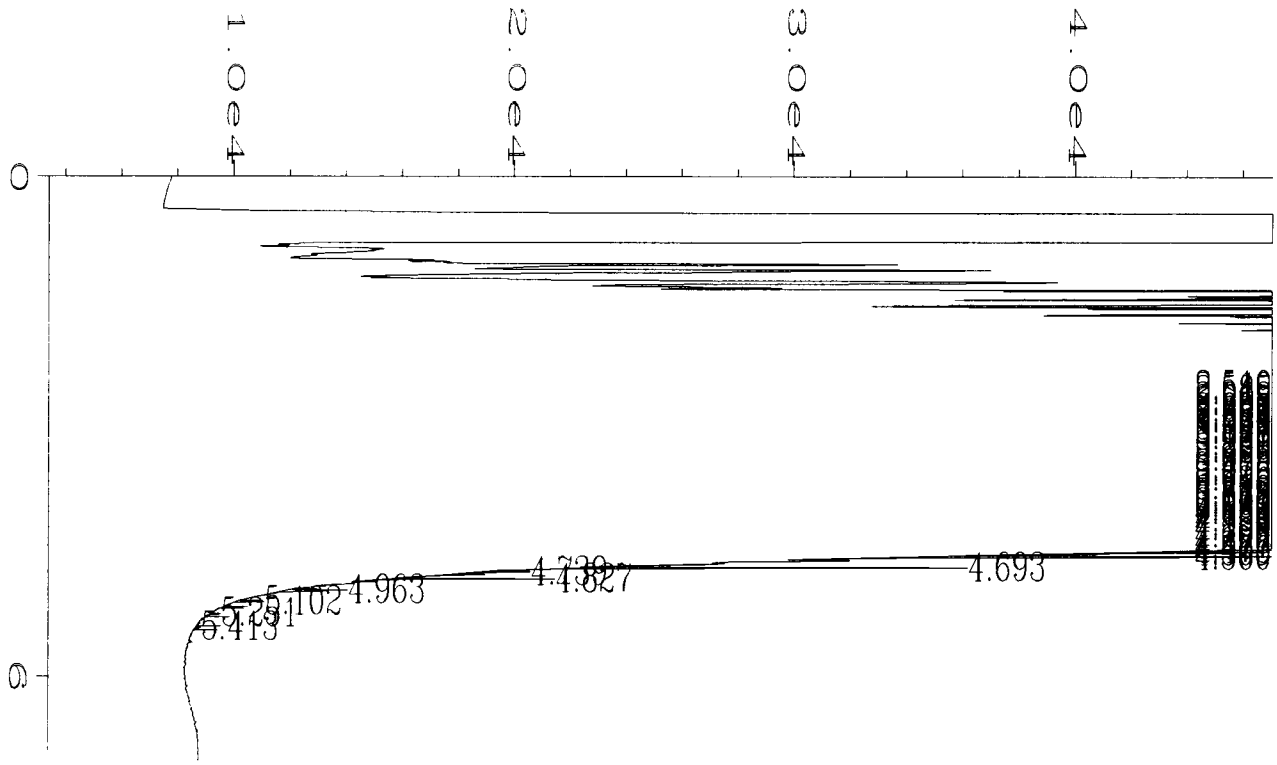

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Area Percent Report

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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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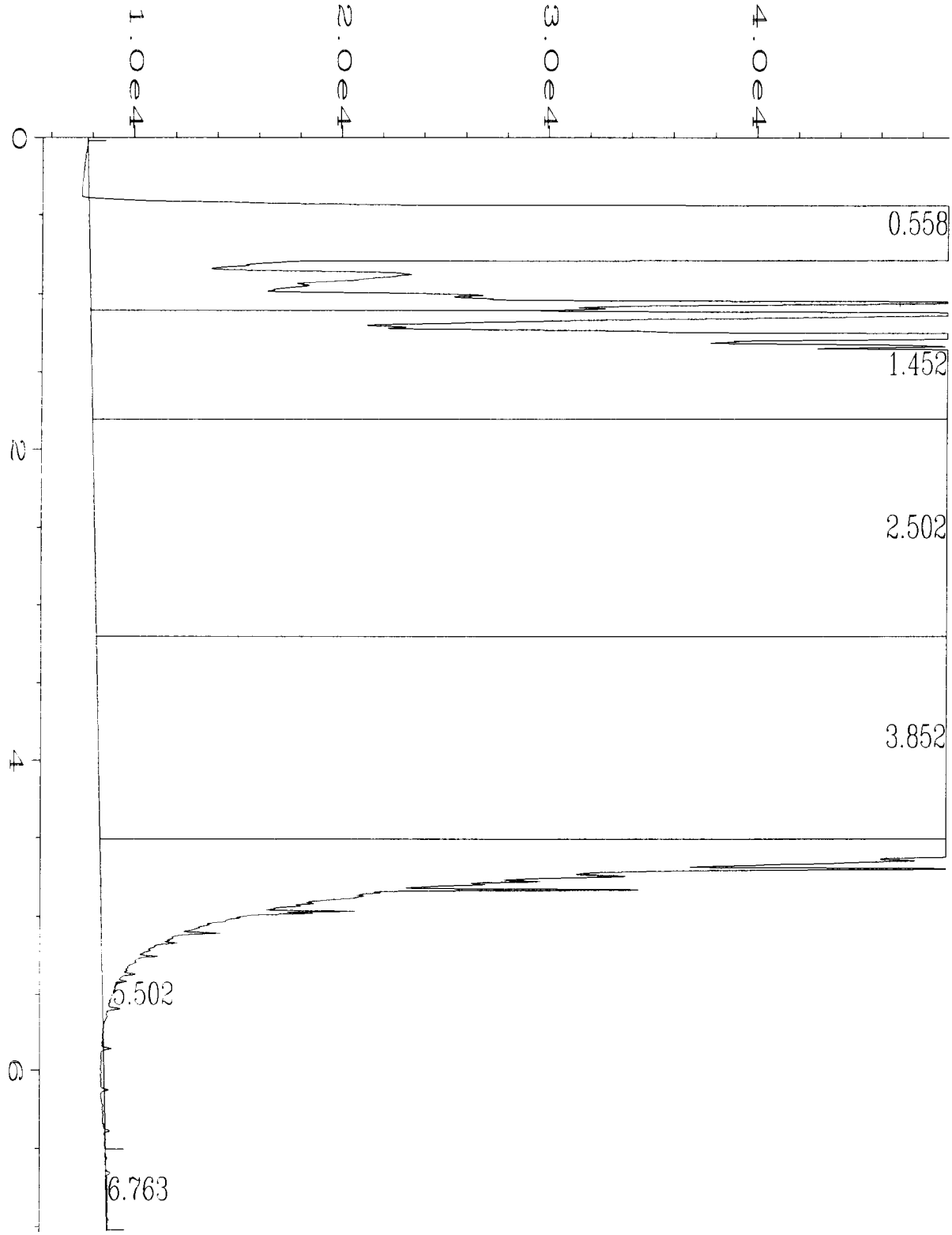
Last modified 1/15/15 mwdl			TPHDSL.XLS			
Data File Name	: C:\HPCHEM\1\DATA\01-14-15\027F0701.D					
Operator	: mwdl			Page Number	: 1	
Instrument	: GC1			Vial Number	: 27	
Sample Name	: 5000ppm dx 44-94			Injection Number	: 1	
Run Time Bar Code:				Sequence Line	: 7	
Acquired on	1/14/15	17:53		Instrume	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

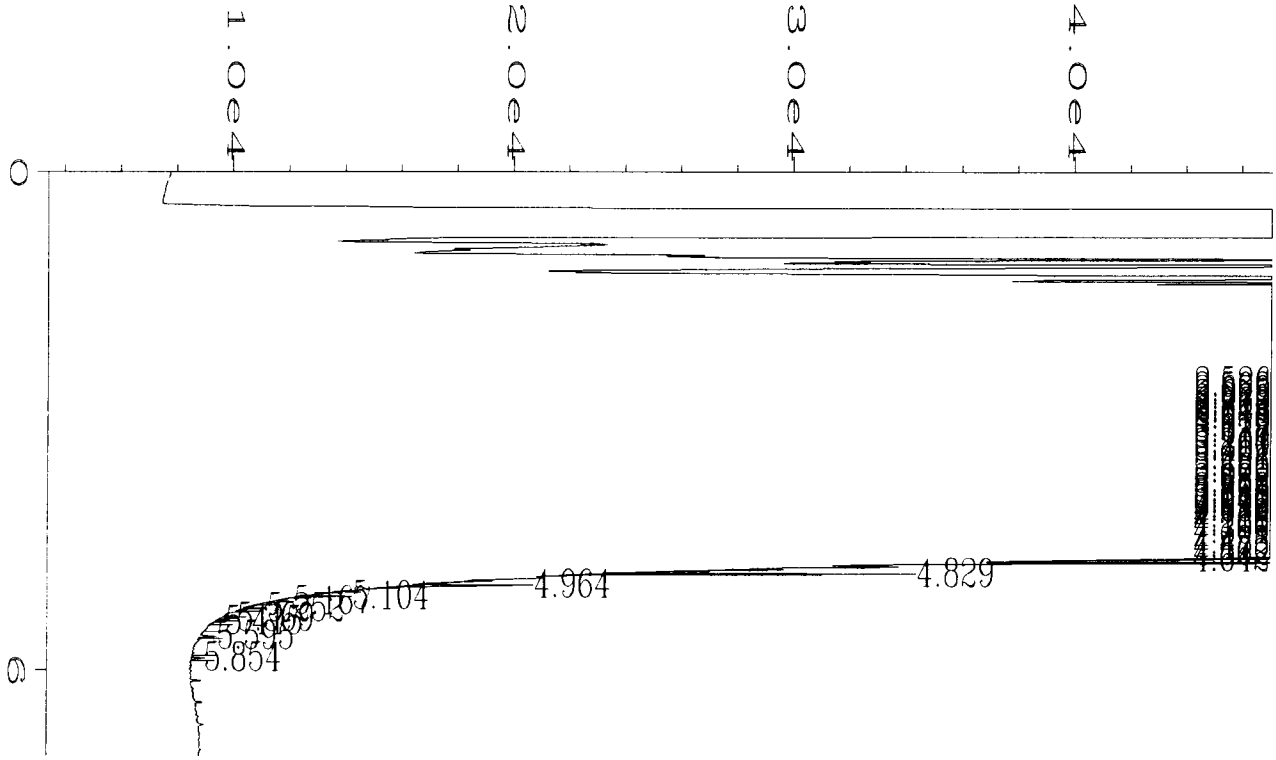
Data File Name : C:\HPCHEM\1\DATA\01-14-15\028F0701.D
Operator : mwdl
Instrument : GC1
Sample Name : 10000 dx 44-94
Run Time Bar Code:
Acquired on : 14 Jan 15 06:03 PM
Report Created on: 15 Jan 15 10:18 AM

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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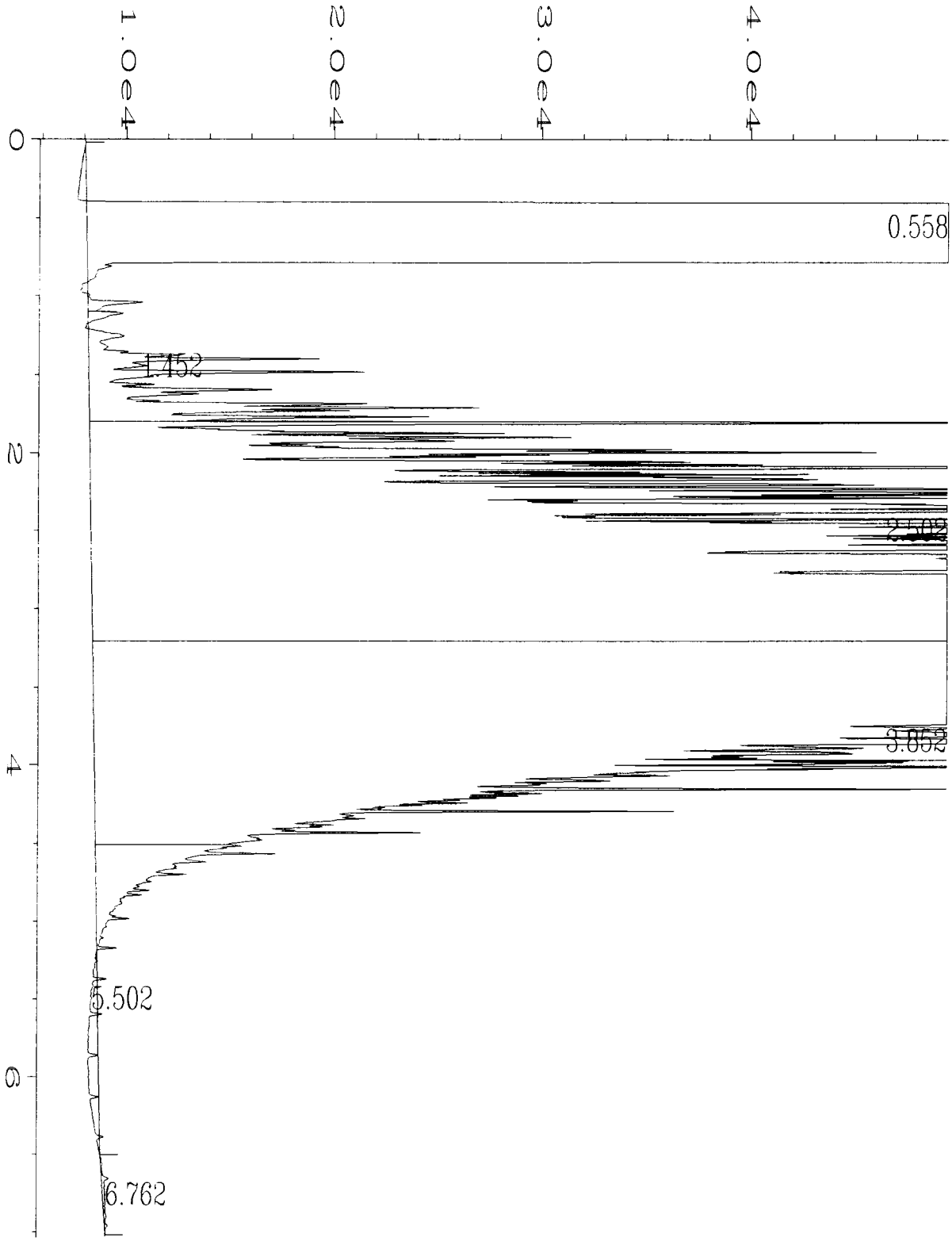
Last modified 1/15/15 mwdl			TPHDSL.XLS				
Data File Name : C:\HPCHEM\1\DATA\01-14-15\028F0701.D							
Operator : mwdl				Page Number : 1			
Instrument : GC1				Vial Number : 28			
Sample Name : 10000 dx 44-94				Injection Number : 1			
Run Time Bar Code:				Sequence Line : 7			
Acquired on	1/14/15	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

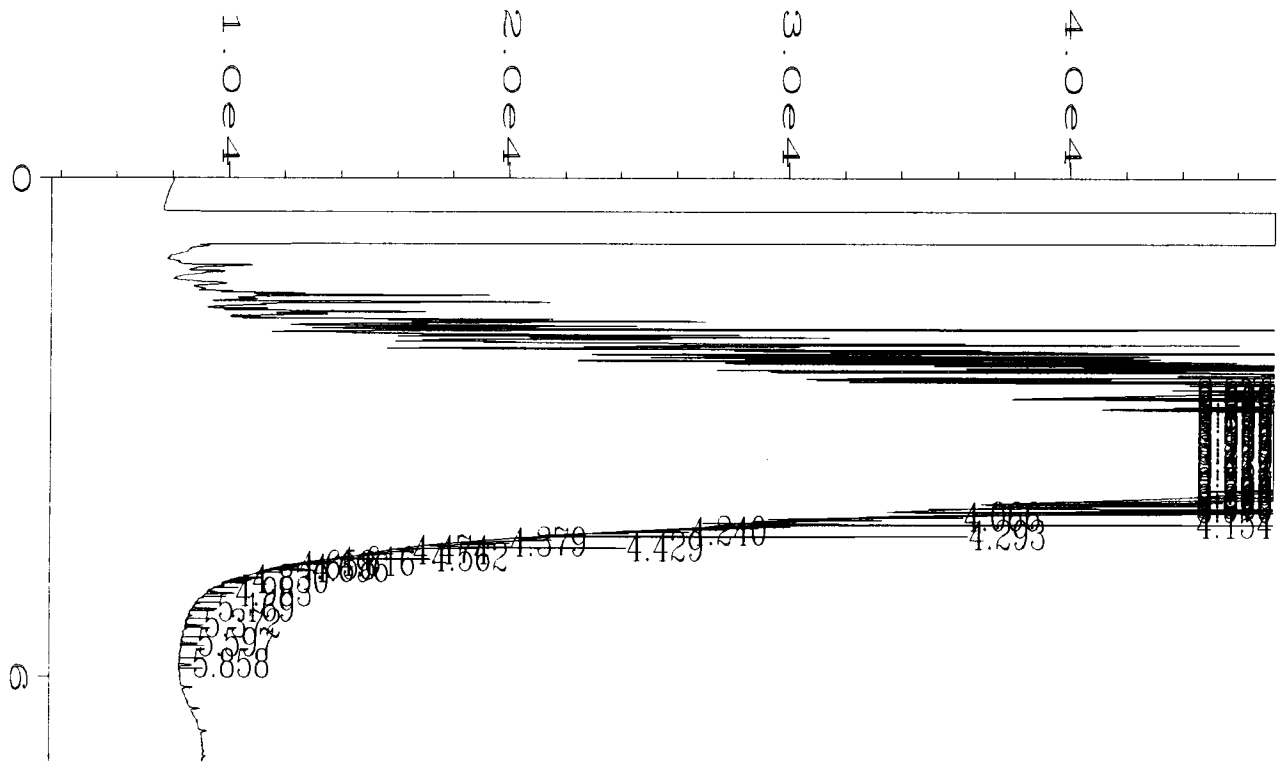
Data File Name : C:\HPCHEM\1\DATA\01-14-15\029F0901.D
Operator : mwdl
Instrument : GC1
Sample Name : 1000 dx2' 43-120
Run Time Bar Code:
Acquired on : 14 Jan 15 06:23 PM
Report Created on: 15 Jan 15 10:19 AM

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 506025

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

NWTPH-Dx
Sequence Tables

F&B Project 506025

Sequence: C:\HPCHEM\1\SEQUENCE\06-03-15.SEQ

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			

BCL 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			

NWTPH-Dx
Checklists

F&B Project 506025

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
☐ Same Day Rush samples processed	☑ ☑ CCV 3	mo	dx
☑ 6/4 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

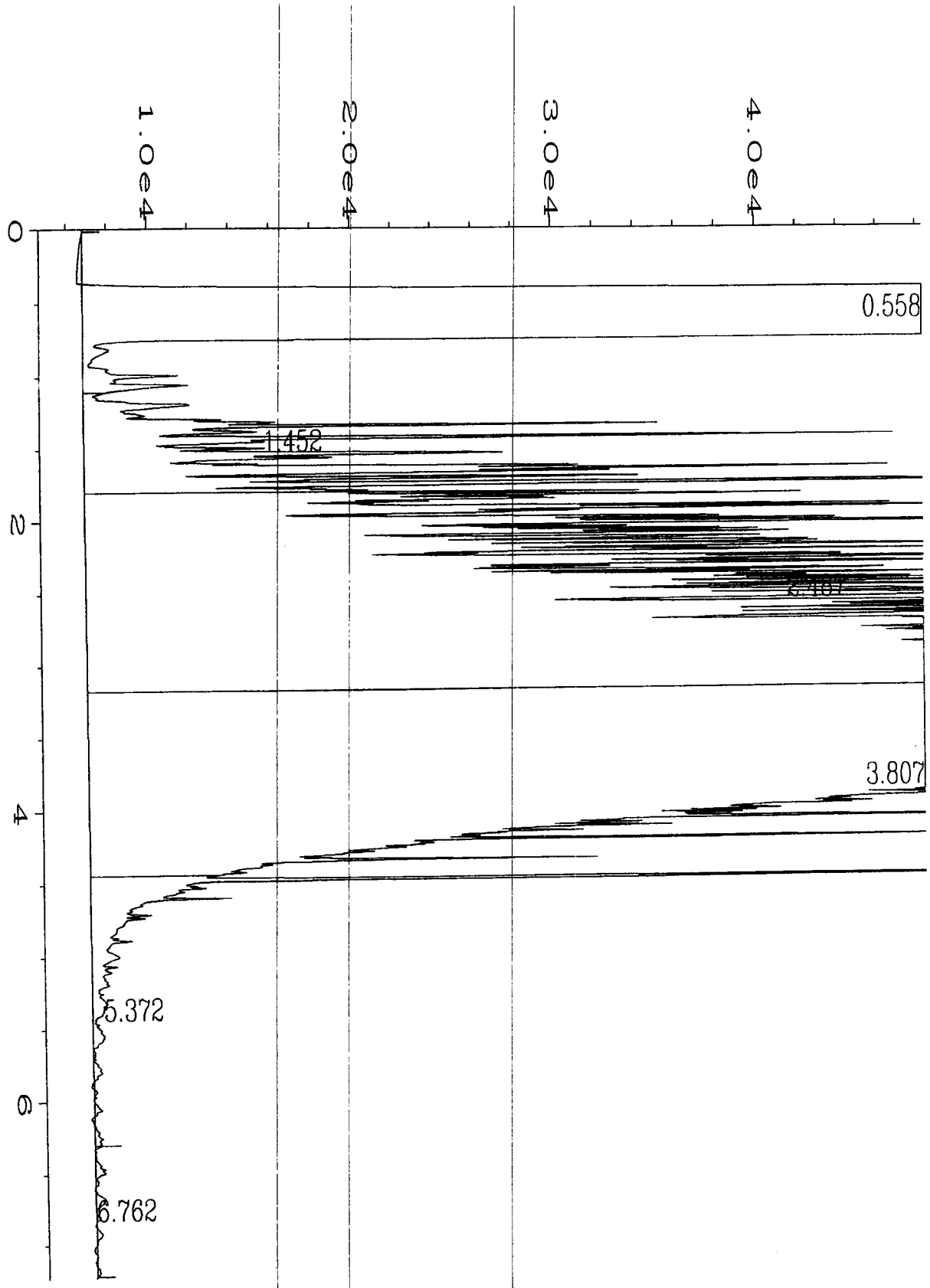
Same-Day Rush Samples	Samples to be Reanalyzed	Maintenance to be Done
____	____	☐ Change Liner
____	____	☐ Change Septa
____	____	☐ Clip Column
____	____	☐ ____
____	____	Symptom ____
____	____	____

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

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

NWTPH-Dx
CCVs

F&B Project 506025



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

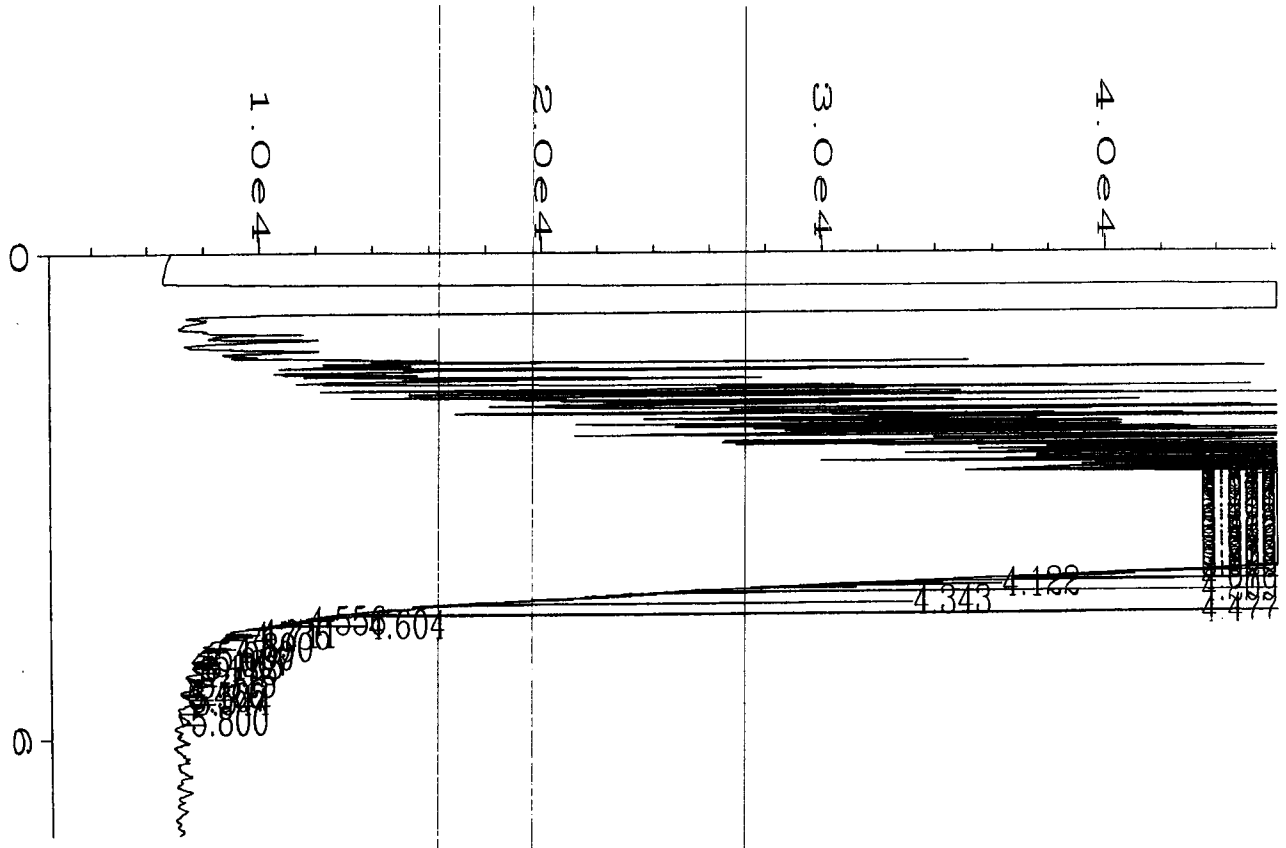
Data File Name : C:\HPCHEM\1\DATA\06-03-15\005F0901.D
Operator : mwdl
Instrument : GC1
Sample Name : 1000 Dx 44-172C
Run Time Bar Code:
Acquired on : 03 Jun 15 03:09 PM
Report Created on: 03 Jun 15 03:20 PM

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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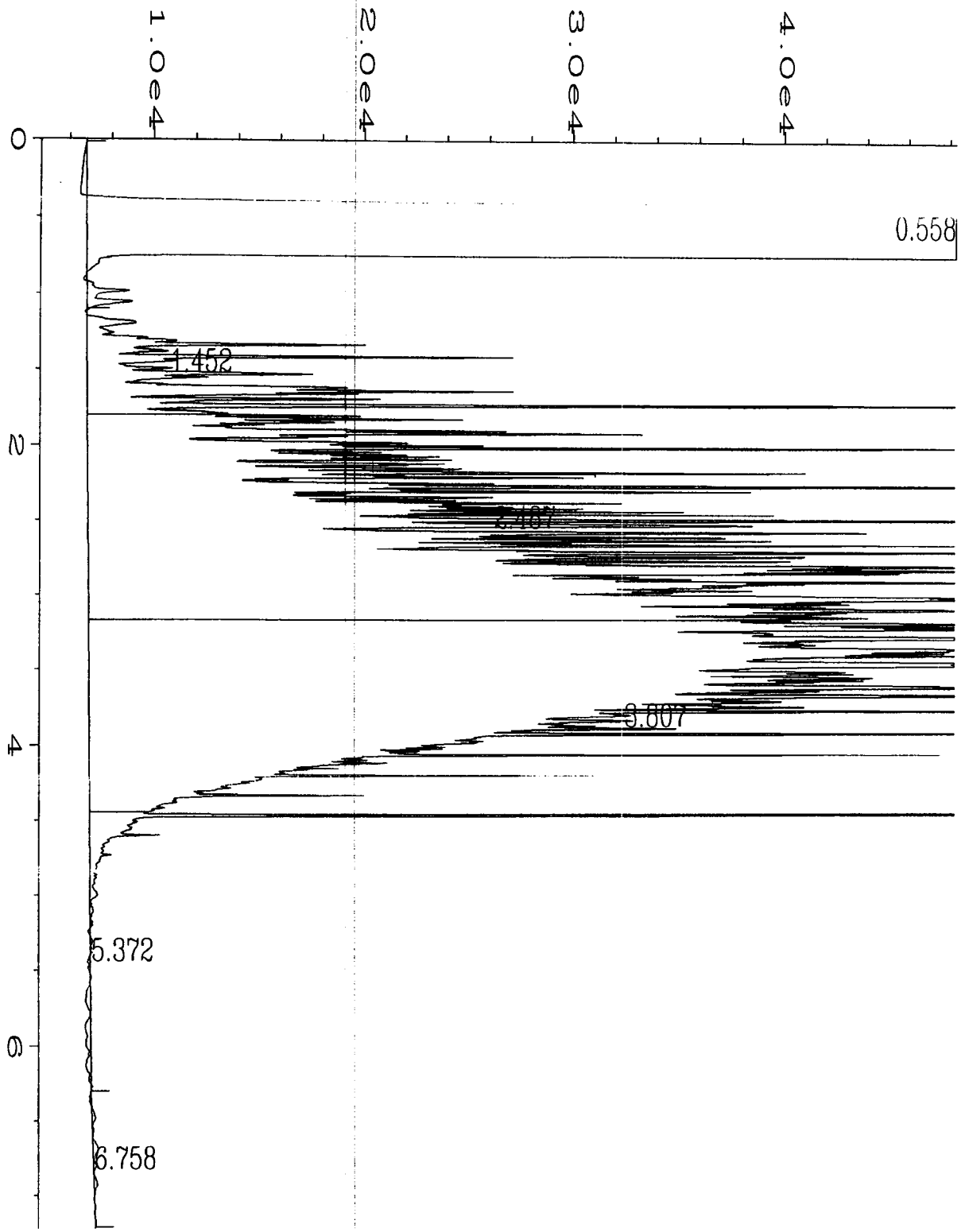
Last modified 4/21/15 mwdl			TPHDSL.XLS			
Data File Name	: C:\HPCHEM\1\DATA\06-03-15\005F0901.D					
Operator	: mwdl			Page Number	: 1	
Instrument	: GC1			Vial Number	: 5	
Sample Name	: 1000 Dx 44-172C			Injection Number	: 1	
Run Time Bar Code:				Sequence Line	: 9	
Acquired on	6/3/15	15:09		Instrume	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

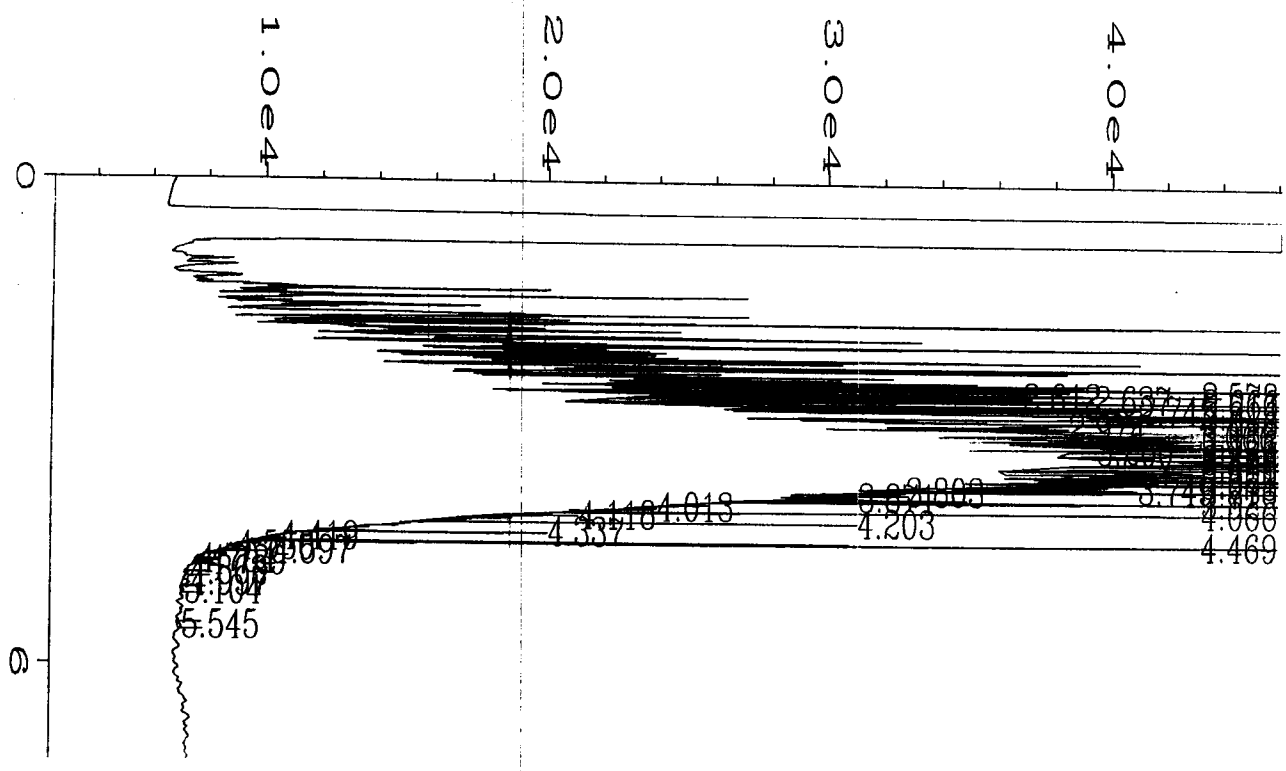
Data File Name : C:\HPCHEM\1\DATA\06-03-15\093F1101.D
Operator : mwdl
Instrument : GC1
Sample Name : 500 Dx 43-199B
Run Time Bar Code:
Acquired on : 03 Jun 15 06:49 PM
Report Created on: 03 Jun 15 06:59 PM

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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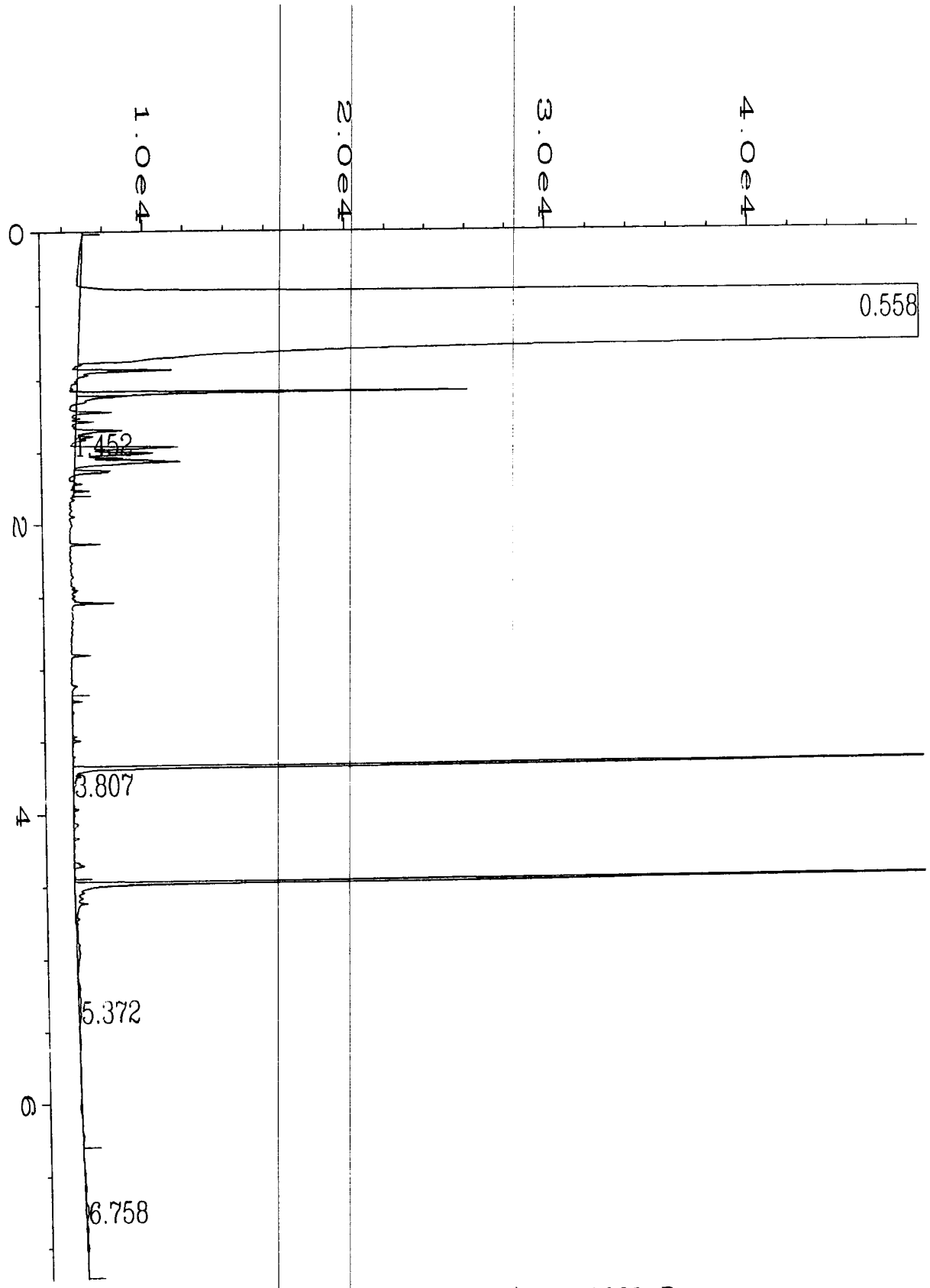
Last modified 4/21/15 mwdl			TPHDSL.XLS			
Data File Name	: C:\HPCHEM\1\DATA\06-03-15\093F1101.D					
Operator	: mwdl			Page Number	: 1	
Instrument	: GC1			Vial Number	: 93	
Sample Name	: 500 Dx 43-199B			Injection Number	: 1	
Run Time Bar Code:				Sequence Line	: 11	
Acquired on	6/3/15	18:49		Instrume	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					

NWTPH-Dx
Quality Assurance Data

F&B Project 506025



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

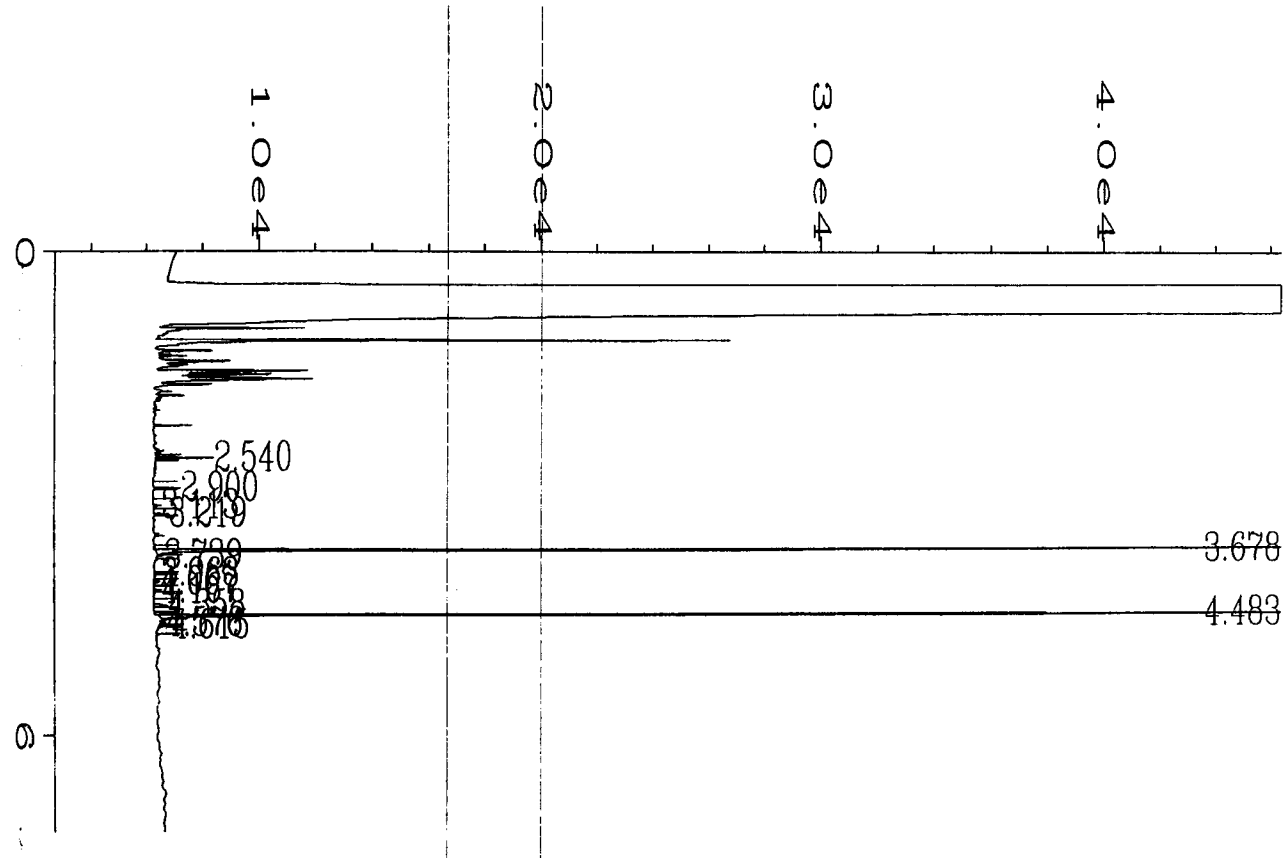
Data File Name : C:\HPCHEM\1\DATA\06-03-15\032F1001.D
Operator : mwdl
Instrument : GC1
Sample Name : 05-1045 mb
Run Time Bar Code:
Acquired on : 03 Jun 15 03:41 PM
Report Created on: 03 Jun 15 03:50 PM

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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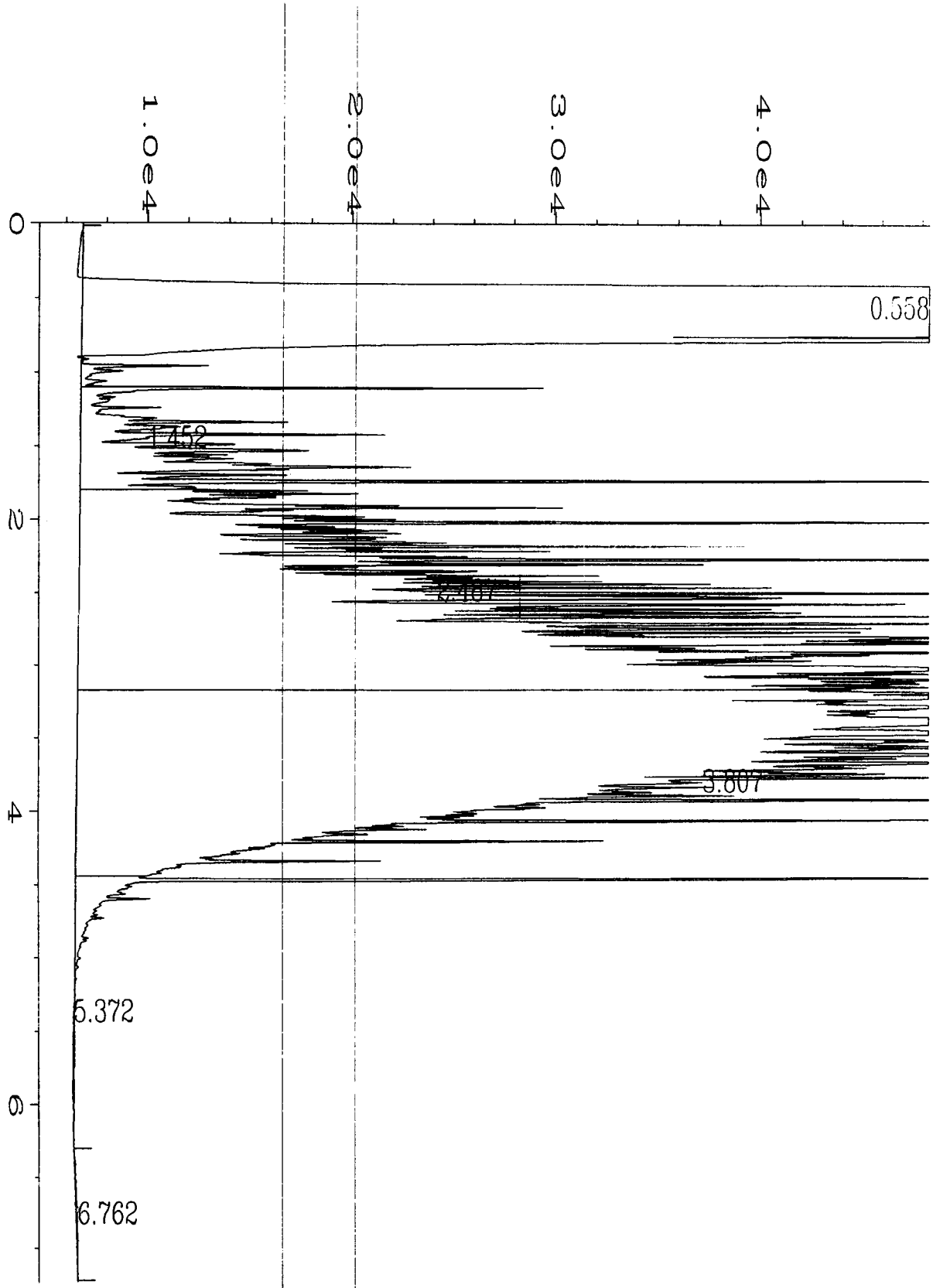
Last modified 4/21/15 mwdl			TPHDSL.XLS			
Data File Name : C:\HPCHEM\1\DATA\06-03-15\032F1001.D						
Operator : mwdl				Page Number	: 1	
Instrument : GC1				Vial Number	: 32	
Sample Name : 05-1045 mb				Injection Number	: 1	
Run Time Bar Code:				Sequence Line	: 10	
Acquired on	6/3/15	15:41		Instrume	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

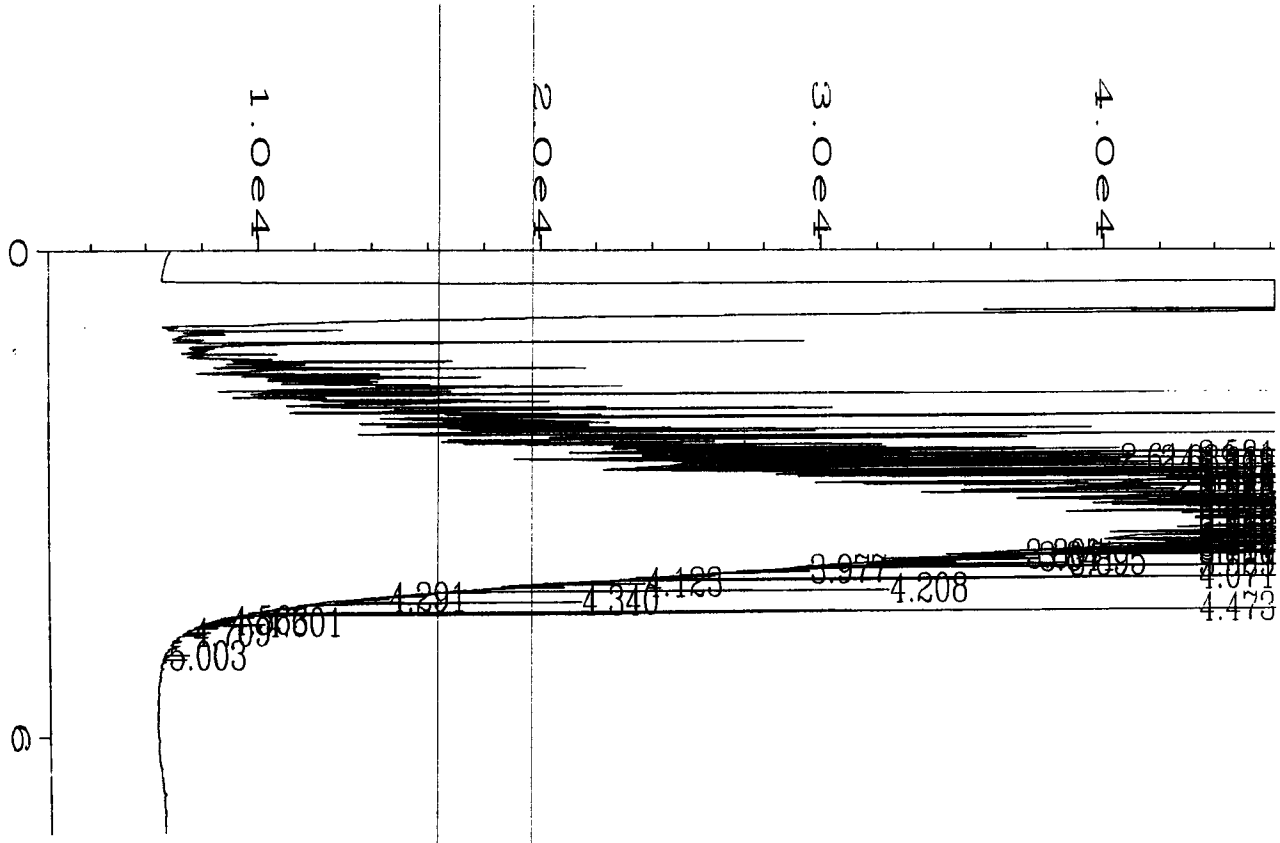
Data File Name : C:\HPCHEM\1\DATA\06-03-15\033F1001.D
Operator : mwdl
Instrument : GC1
Sample Name : 05-1045 lcs
Run Time Bar Code:
Acquired on : 03 Jun 15 03:50 PM
Report Created on: 03 Jun 15 04:01 PM

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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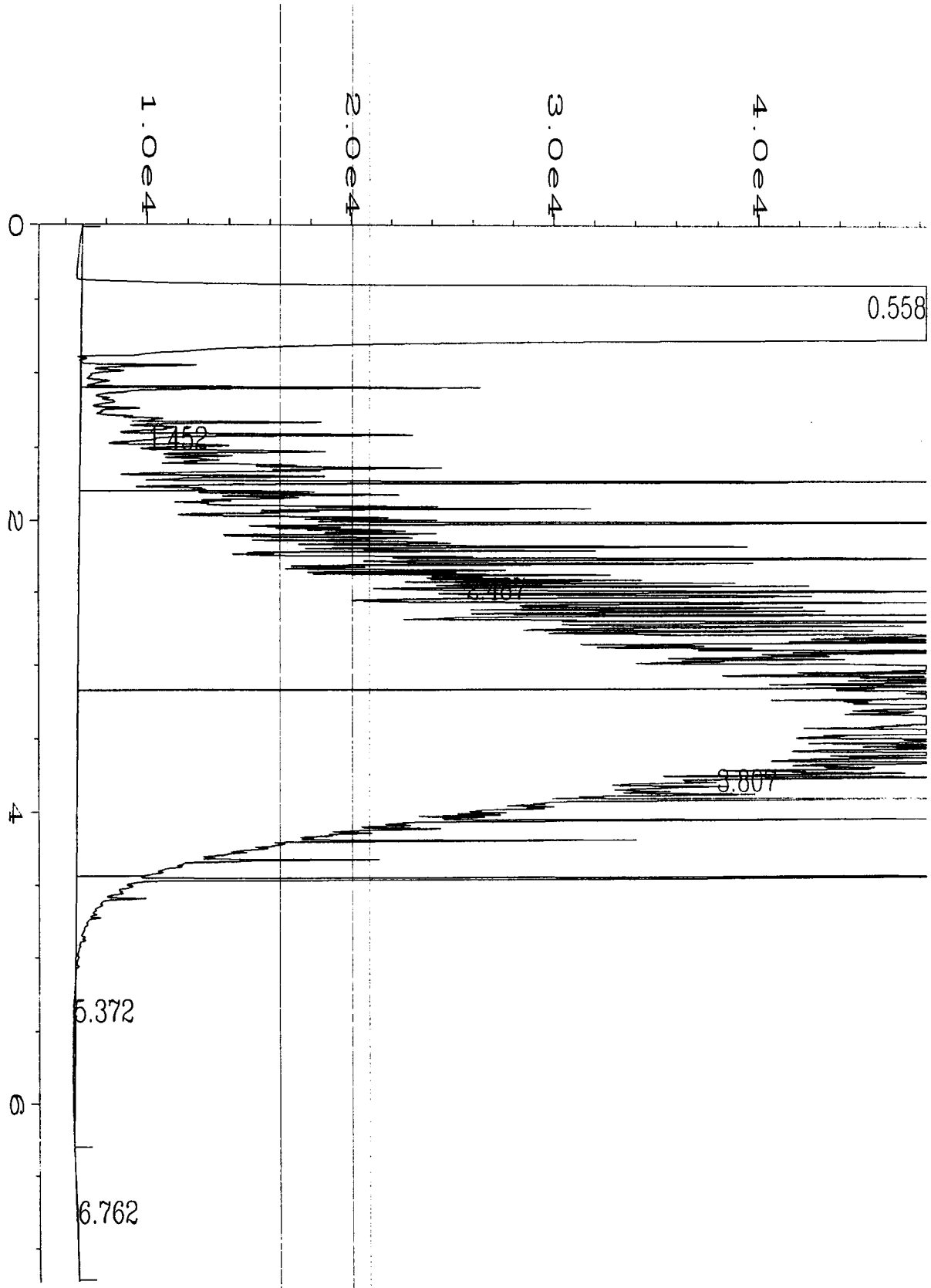
Last modified 4/21/15 mwdl			TPHDSL.XLS			
Data File Name	: C:\HPCHEM\1\DATA\06-03-15\033F1001.D					
Operator	: mwdl			Page Number	: 1	
Instrument	: GC1			Vial Number	: 33	
Sample Name	: 05-1045 lcs			Injection Number	: 1	
Run Time Bar Code:				Sequence Line	: 10	
Acquired on	6/3/15	15:50		Instrume	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

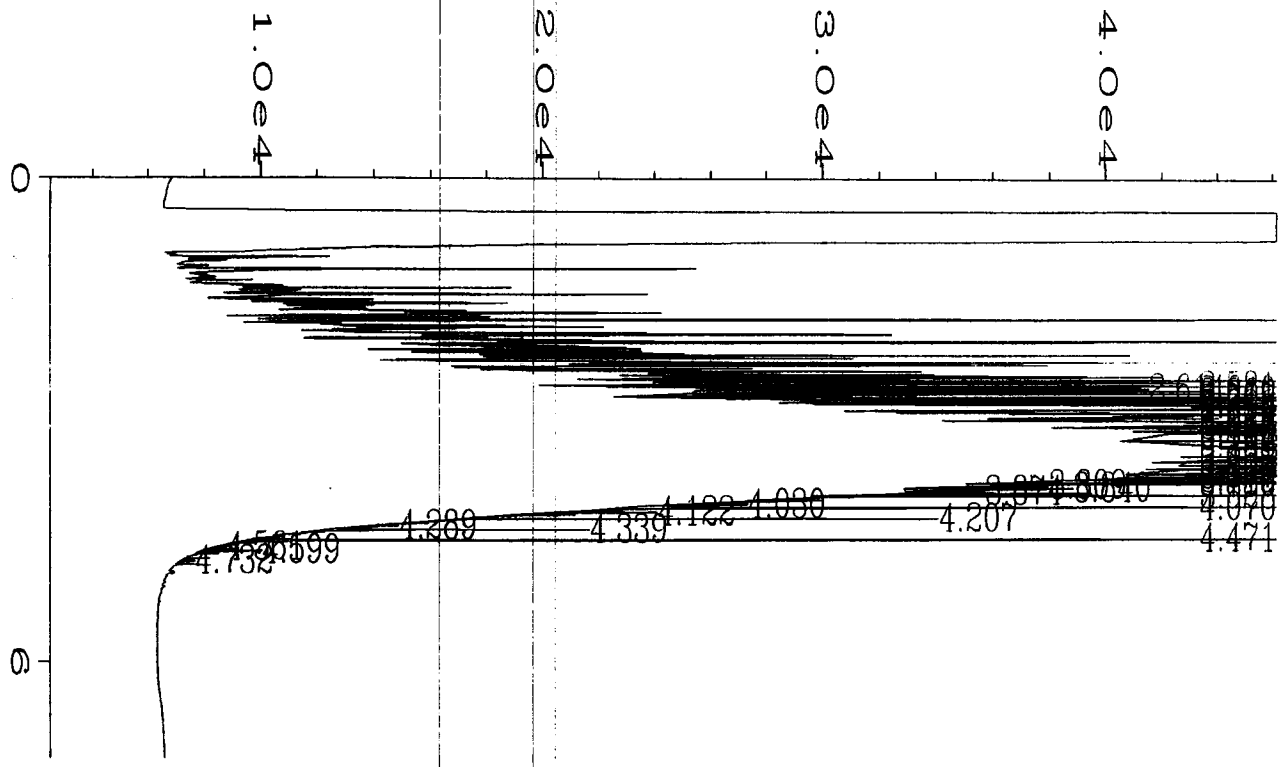
Data File Name : C:\HPCHEM\1\DATA\06-03-15\034F1001.D
Operator : mwdl
Instrument : GC1
Sample Name : 05-1045 lcsd
Run Time Bar Code:
Acquired on : 03 Jun 15 04:01 PM
Report Created on: 03 Jun 15 04:12 PM

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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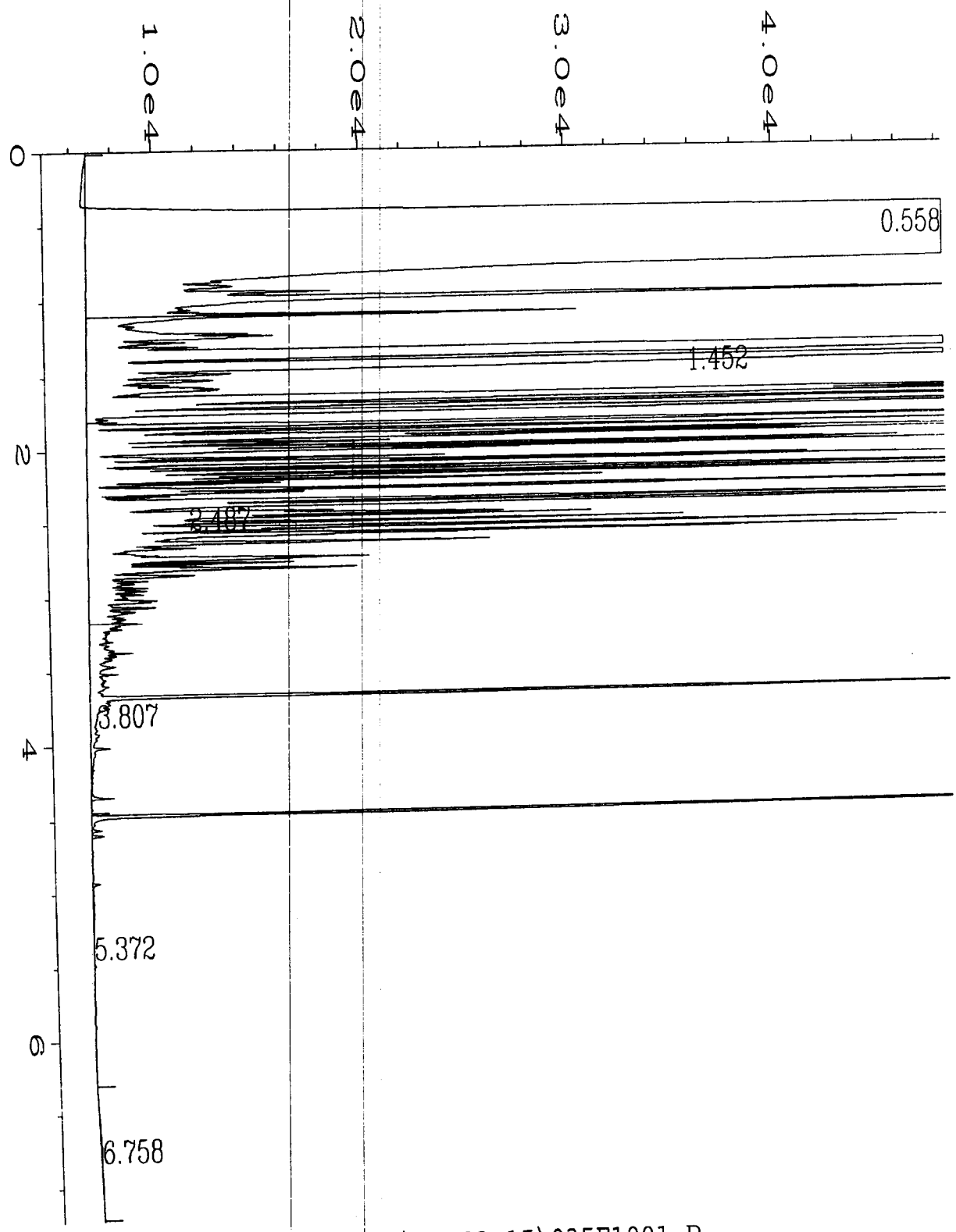
Last modified 4/21/15 mwdl			TPHDSL.XLS			
Data File Name	: C:\HPCHEM\1\DATA\06-03-15\034F1001.D					
Operator	: mwdl			Page Number	: 1	
Instrument	: GC1			Vial Number	: 34	
Sample Name	: 05-1045 lcsd			Injection Number	: 1	
Run Time Bar Code:				Sequence Line	: 10	
Acquired on	6/3/15	16:01		Instrume	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					

NWTPH-Dx
Sample Chromatograms & Data

F&B Project 506025



Data File Name : C:\HPCHEM\1\DATA\06-03-15\035F1001.D
Operator : mwdl
Instrument : GC1
Sample Name : 506025-01
Run Time Bar Code:
Acquired on : 03 Jun 15 04:12 PM
Report Created on: 03 Jun 15 04:23 PM

Page Number : 1
Vial Number : 35
Injection Number : 1
Sequence Line : 10
Instrument Method: DX.MTH
Analysis Method : DX.MTH

Area Percent Report

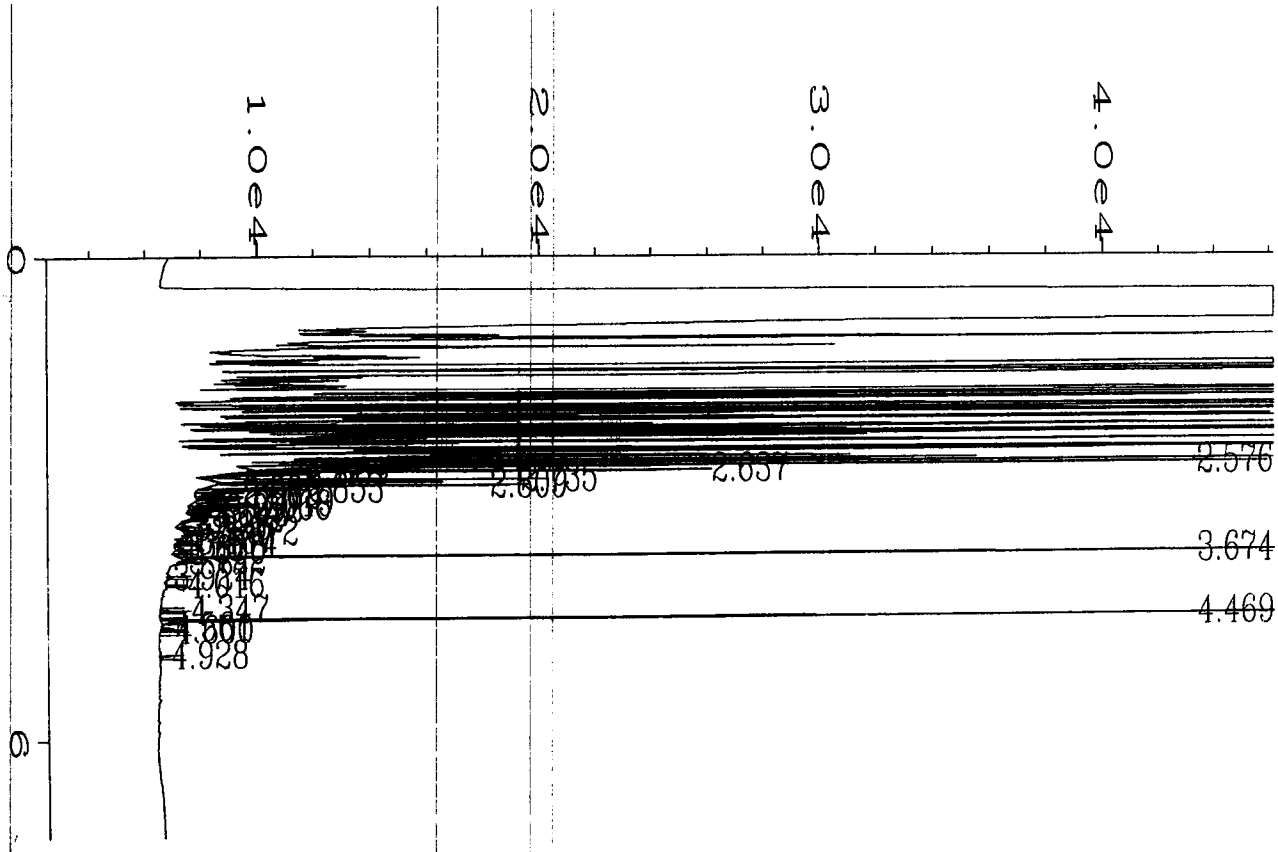
Data File Name : C:\HPCHEM\1\DATA\06-03-15\035F1001.D
Operator : mwdl
Instrument : GC1
Sample Name : 506025-01
Run Time Bar Code:
Acquired on : 03 Jun 15 04:12 PM
Report Created on: 03 Jun 15 04:23 PM

Page Number : 1
Vial Number : 35
Injection Number : 1
Sequence Line : 10
Instrument Method: DX.MTH
Analysis Method : DX.MTH

Sig. 1 in C:\HPCHEM\1\DATA\06-03-15\035F1001.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.558	1.03416E+009	8.20264E+007	BV +	0.000	99.7155
2	1.452	1854745	883952	VVA	0.035	0.1788
3	2.487	882507	166492	VV +	0.000	0.0851
4	3.807	127446	193389	VB +	0.000	0.0123
5	5.372	84100	157847	BB +	0.000	0.0081
6	6.758	1390	91	BB +	0.000	0.0001

Total area = 1.03711E+009



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Area Percent Report

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Data File Name : C:\HPCHEM\1\DATA\06-03-15\035R1001.D
Operator : mwdl
Instrument : GC1
Sample Name : 506025-01
Run Time Bar Code:
Acquired on : 03 Jun 15 04:12 PM
Report Created on: 03 Jun 15 04:23 PM

Page Number : 1
Vial Number : 35
Injection Number : 1
Sequence Line : 10
Instrument Method: DX.MTH
Analysis Method : istnddx.MTH

Sig. 2 in C:\HPCHEM\1\DATA\06-03-15\035R1001.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	2.576	28835	38008	BB	0.014	10.5624
2	2.637	11322	17268	BB	0.011	4.1474
3	2.669	3036	3590	BB	0.014	1.1120
4	2.735	15814	12566	BB	0.021	5.7928
5	2.809	16583	9834	BB	0.024	6.0745
6	2.853	4130	3875	BB	0.017	1.5129
7	2.885	1794	1889	BB	0.021	0.6572
8	2.932	2065	1883	BB	0.018	0.7566
9	3.019	4004	2402	BB	0.026	1.4667
10	3.066	1735	2323	BB	0.012	0.6354
11	3.098	1276	1344	BB	0.016	0.4675
12	3.148	1112	797	BB	0.023	0.4075
13	3.212	857	770	BB	0.019	0.3140
14	3.296	803	679	BB	0.020	0.2941
15	3.325	266	359	BB	0.012	0.0976
16	3.372	998	1386	BB	0.012	0.3655
17	3.467	571	655	BB	0.020	0.2091
18	3.514	465	945	BB	0.008	0.1703
19	3.557	425	319	BB	0.022	0.1558
20	3.600	620	506	BB	0.020	0.2269

21	3.674	90607	200139	BB	0.008	33.1902
22	3.722	346	279	BB	0.021	0.1268
23	3.924	229	212	BB	0.018	0.0839
24	4.016	354	770	BB	0.008	0.1296
25	4.347	792	1149	BB	0.011	0.2902
26	4.469	83019	168004	BB	0.008	30.4109
27	4.561	277	471	BB	0.010	0.1013
28	4.600	343	583	BB	0.015	0.1255
29	4.928	315	416	BB	0.020	0.1154

Total area = 272992

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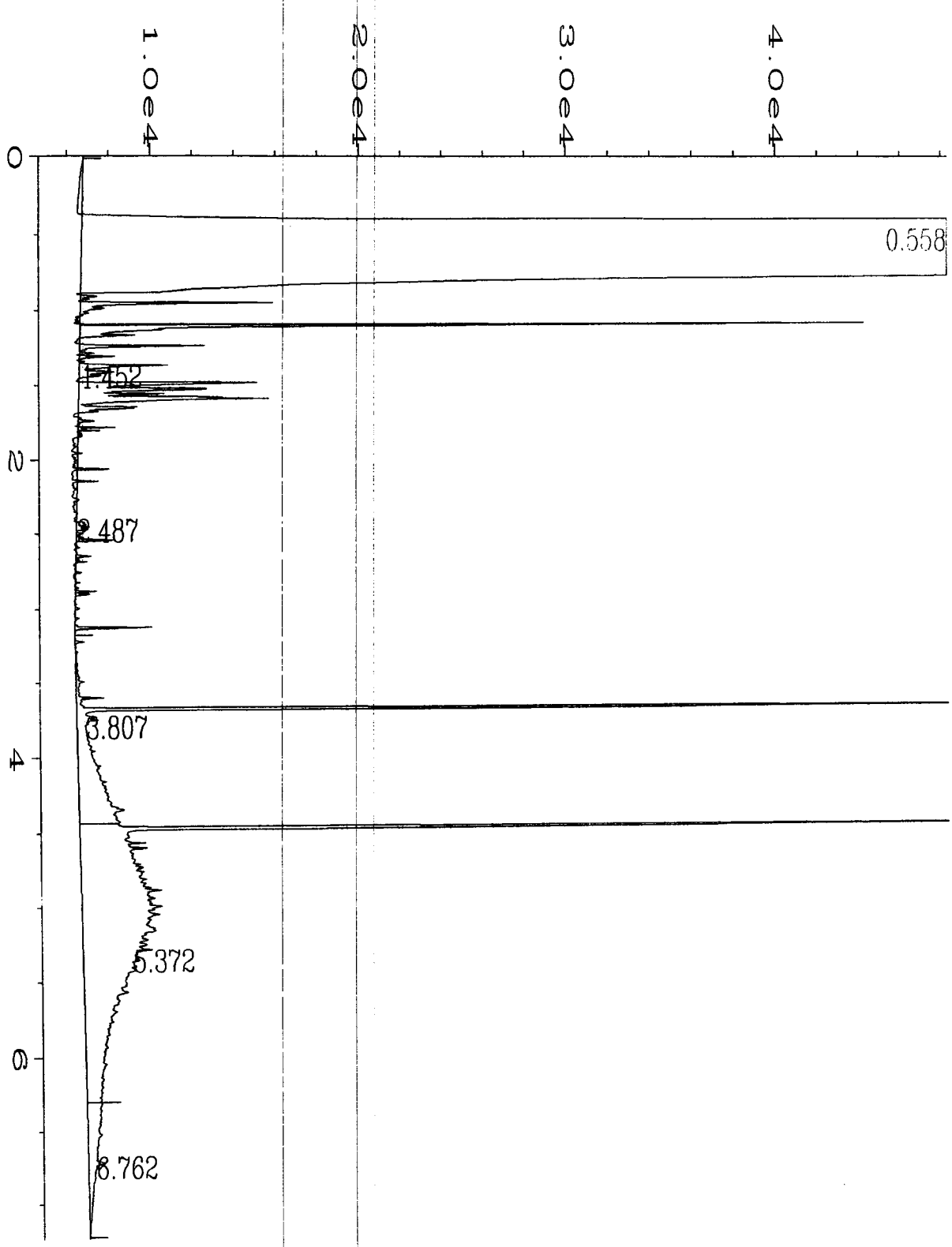
Last modified 4/21/15 mwdl			TPHDSL.XLS			
Data File Name	: C:\HPCHEM\1\DATA\06-03-15\035F1001.D					
Operator	: mwdl			Page Number	: 1	
Instrument	: GC1			Vial Number	: 35	
Sample Name	: 506025-01			Injection Number	: 1	
Run Time Bar Code:				Sequence Line	: 10	
Acquired on	6/3/15	16:12		Instrume	DX.MTH	
Report Created on: 03 Jun 15 04:23 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						
91	>4.44	<4.53	83019	9.11E+04		1/14/15
o-Terphenyl						
90	>3.63	<3.72	90607	1.00E+05		1/14/15
Results			Area	Resp. factor		Calibrated
Diesel, start C10 - start C25						
120	>1.8	<4.44	9.19E+05	7.66E+03		1/14/15
NWTPH-DX, start C10 - end C36						
119	>1.8	<6.3	920426	7.75E+03		1/14/15
Motor Oil, start C25 - end C36						
0	>4.44	<6.3	1080	5.16E+03		1/14/15
Heavy Oil, start C17- end C36						
6	>3.17	<6.3	37919	6.80E+03		1/14/15
C12-C24						
144	>1.8	<4.44	919346	6.37E+03		6/22/11
Stoddard, start C8 - end C11						
325	>1.1	<3.17	2737252	8.41E+03		1/16/15
Kerosene C8-C20						
442	>1.1	<4.44	2774091	6.28E+03		7/5/12
Bunker C						
216	>1.8	<6.3	920427	4.27E+03		9/19/11
Calibration Info:						
Stoddard (8-11)	325					
TPHD (8-36)	5					
TPHDX (8-36)	5					
Motor Oil (8-36	7					



Data File Name : C:\HPCHEM\1\DATA\06-03-15\036F1001.D
Operator : mwdl
Instrument : GC1
Sample Name : 506025-02
Run Time Bar Code:
Acquired on : 03 Jun 15 04:23 PM
Report Created on: 03 Jun 15 04:34 PM

Page Number : 1
Vial Number : 36
Injection Number : 1
Sequence Line : 10
Instrument Method: DX.MTH
Analysis Method : DX.MTH

Area Percent Report

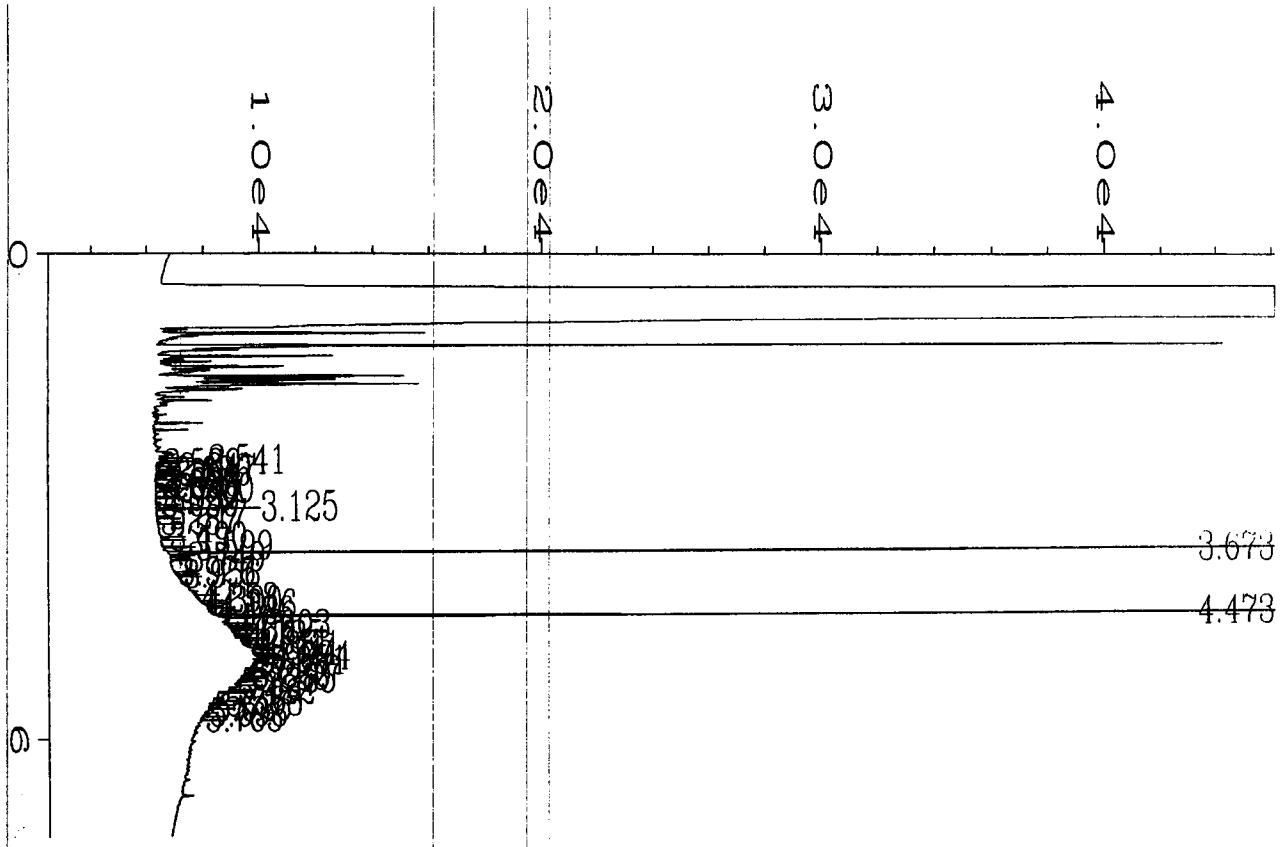
Data File Name : C:\HPCHEM\1\DATA\06-03-15\036F1001.D
Operator : mwdl
Instrument : GC1
Sample Name : 506025-02
Run Time Bar Code:
Acquired on : 03 Jun 15 04:23 PM
Report Created on: 03 Jun 15 04:34 PM

Page Number : 1
Vial Number : 36
Injection Number : 1
Sequence Line : 10
Instrument Method: DX.MTH
Analysis Method : DX.MTH

Sig. 1 in C:\HPCHEM\1\DATA\06-03-15\036F1001.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.558	1.06874E+009	8.2723E+007	BV +	0.000	99.9479
2	1.452	76751	37675	VVA	0.034	0.0072
3	2.487	2968	3616	VVA	0.014	0.0003
4	3.807	141428	186899	PV +	0.000	0.0132
5	5.372	316549	170120	VVA	0.031	0.0296
6	6.762	19475	827	VB +	0.000	0.0018

Total area = 1.0693E+009



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Area Percent Report

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Data File Name : C:\HPCHEM\1\DATA\06-03-15\036R1001.D
Operator : mwdl
Instrument : GC1
Sample Name : 506025-02
Run Time Bar Code:
Acquired on : 03 Jun 15 04:23 PM
Report Created on: 03 Jun 15 04:34 PM

Page Number : 1
Vial Number : 36
Injection Number : 1
Sequence Line : 10
Instrument Method: DX.MTH
Analysis Method : istnddx.MTH

Sig. 2 in C:\HPCHEM\1\DATA\06-03-15\036R1001.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	2.541	959	1797	BBAS	0.009	0.5025
2	2.589	208	271	BB	0.013	0.1088
3	2.647	631	811	BB	0.013	0.3304
4	2.686	415	648	BB	0.011	0.2174
5	2.754	236	372	BB	0.011	0.1238
6	2.823	274	309	BB	0.015	0.1436
7	2.858	117	223	BB	0.009	0.0612
8	2.900	1081	756	BB	0.024	0.5662
9	2.997	183	253	BB	0.012	0.0960
10	3.059	177	216	BB	0.016	0.0927
11	3.125	2060	3955	BB	0.009	1.0793
12	3.217	317	480	BB	0.013	0.1663
13	3.287	166	118	BB	0.023	0.0869
14	3.490	166	298	BB	0.009	0.0871
15	3.599	370	1194	BB	0.005	0.1938
16	3.673	90796	193485	BB	0.013	47.5739
17	3.749	732	635	BB	0.019	0.3833
18	3.926	129	124	BB	0.017	0.0674
19	3.956	151	259	BB	0.010	0.0793
20	4.258	235	81	BB	0.044	0.1231

21	4.300	127	110	BB	0.019	0.0664
22	4.346	747	418	BB	0.026	0.3915
23	4.426	228	177	BB	0.022	0.1195
24	4.473	83355	174442	BB	0.008	43.6750
25	4.603	714	887	BB	0.013	0.3743
26	4.682	131	131	BB	0.017	0.0686
27	4.735	603	435	BB	0.023	0.3162
28	4.811	277	328	BB	0.015	0.1451
29	4.867	302	343	BB	0.015	0.1585
30	4.941	230	365	BB	0.011	0.1206
31	4.994	461	553	BB	0.014	0.2414
32	5.051	377	523	BB	0.014	0.1974
33	5.157	1131	543	BB	0.030	0.5925
34	5.220	279	339	BB	0.014	0.1460
35	5.253	279	368	BB	0.013	0.1462
36	5.285	660	702	BB	0.016	0.3457
37	5.337	115	198	BB	0.010	0.0602
38	5.422	352	345	BB	0.017	0.1846
39	5.568	543	424	BB	0.021	0.2844
40	5.626	122	102	BB	0.020	0.0641
41	5.698	209	209	BB	0.018	0.1094
42	5.765	209	197	BB	0.018	0.1093

Total area = 190853

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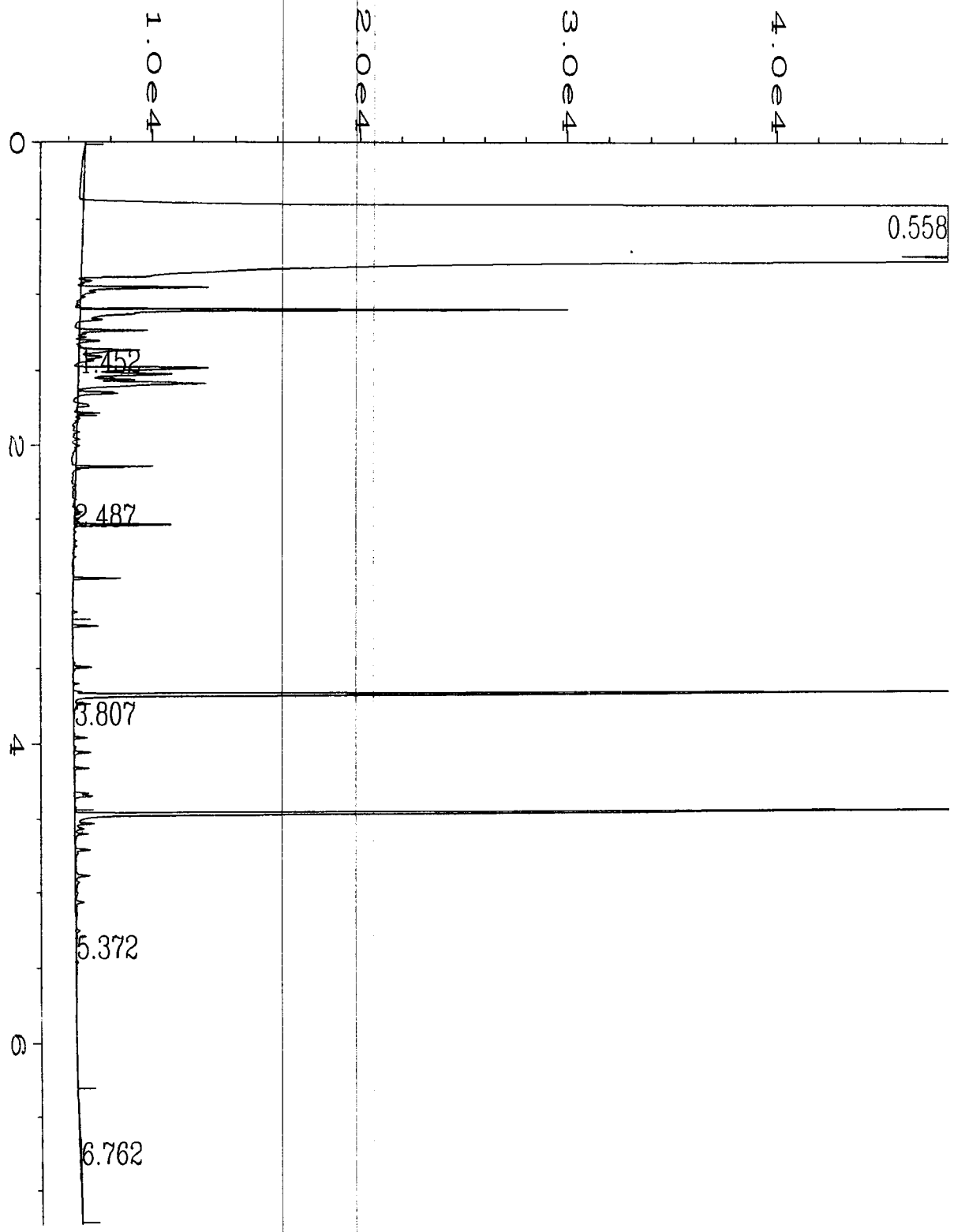
Last modified 4/21/15 mwdl			TPHDSL.XLS			
Data File Name	: C:\HPCHEM\1\DATA\06-03-15\036F1001.D					
Operator	: mwdl			Page Number	: 1	
Instrument	: GC1			Vial Number	: 36	
Sample Name	: 506025-02			Injection Number	: 1	
Run Time Bar Code:				Sequence Line	: 10	
Acquired on	6/3/15	16:23		Instrume	DX.MTH	
Report Created on: 03 Jun 15 04:34 PM				Analysis Method	: DX.MTH	
Surr / IS	**Ret Time window**		**Area**	**Avg. Area**		
Triacontane						Calibrated
0	>5.22	<5.26	279	8.24E+04		9/25/13
Pentacosane						
92	>4.44	<4.53	83355	9.11E+04		1/14/15
o-Terphenyl						
91	>3.63	<3.72	90796	1.00E+05		1/14/15
Results			Area	Resp. factor		Calibrated
Diesel, start C10 - start C25						
7	>1.8	<4.44	5.36E+04	7.66E+03		1/14/15
NWTPH-DX, start C10 - end C36						
37	>1.8	<6.3	286515	7.75E+03		1/14/15
Motor Oil, start C25 - end C36						
45	>4.44	<6.3	232915	5.16E+03		1/14/15
Heavy Oil, start C17- end C36						
42	>3.17	<6.3	283547	6.80E+03		1/14/15
C12-C24						
8	>1.8	<4.44	53600	6.37E+03		6/22/11
Stoddard, start C8 - end C11						
9	>1.1	<3.17	79719	8.41E+03		1/16/15
Kerosene C8-C20						
21	>1.1	<4.44	130351	6.28E+03		7/5/12
Bunker C						
67	>1.8	<6.3	286794	4.27E+03		9/19/11
Calibration Info:						
Stoddard (8-11)	9					
TPHD (8-36)	37					
TPHDX (8-36)	37					
Motor Oil (8-36	55					



Data File Name : C:\HPCHEM\1\DATA\06-03-15\037F1001.D
Operator : mwdl
Instrument : GC1
Sample Name : 506025-03
Run Time Bar Code:
Acquired on : 03 Jun 15 04:34 PM
Report Created on: 03 Jun 15 04:45 PM

Page Number : 1
Vial Number : 37
Injection Number : 1
Sequence Line : 10
Instrument Method: DX.MTH
Analysis Method : DX.MTH

Area Percent Report

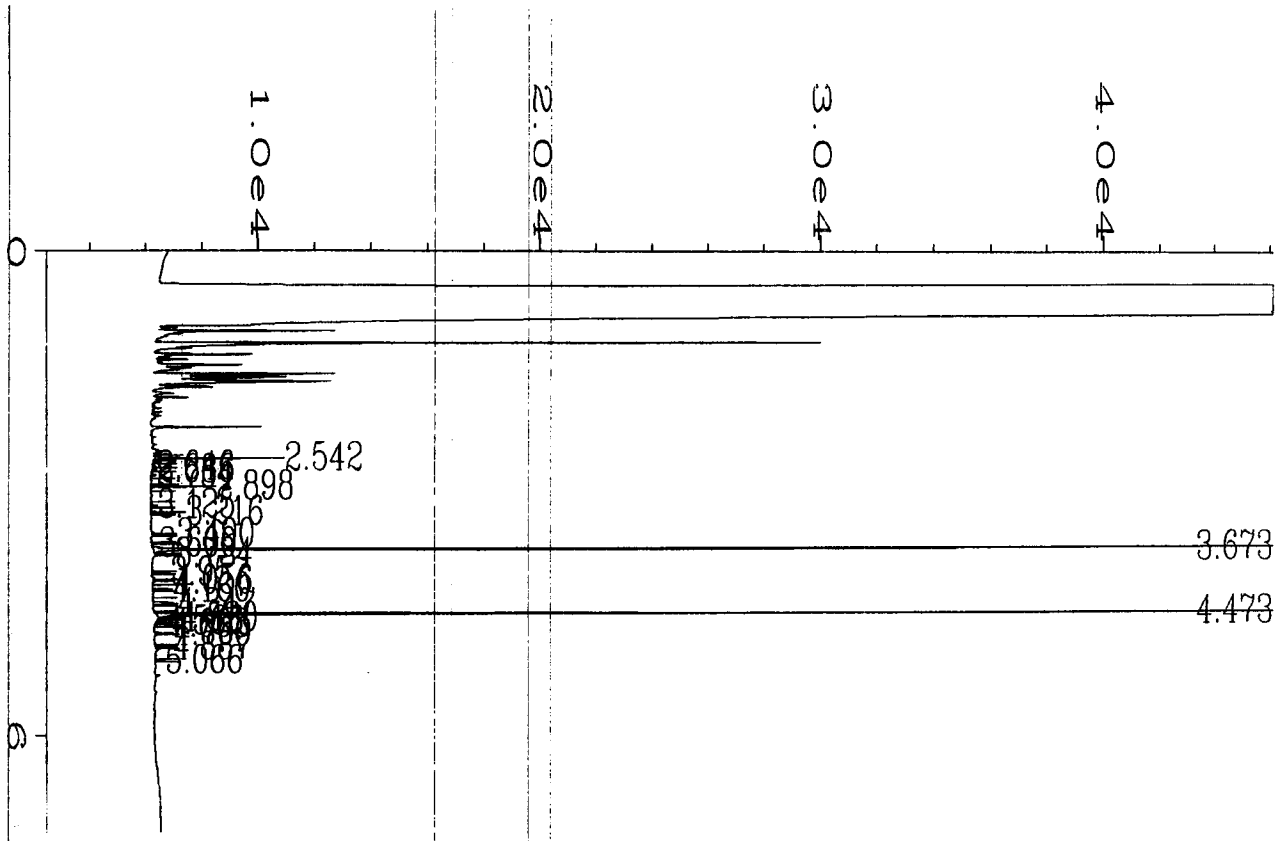
Data File Name : C:\HPCHEM\1\DATA\06-03-15\037F1001.D
Operator : mwdl
Instrument : GC1
Sample Name : 506025-03
Run Time Bar Code:
Acquired on : 03 Jun 15 04:34 PM
Report Created on: 03 Jun 15 04:45 PM

Page Number : 1
Vial Number : 37
Injection Number : 1
Sequence Line : 10
Instrument Method: DX.MTH
Analysis Method : DX.MTH

Sig. 1 in C:\HPCHEM\1\DATA\06-03-15\037F1001.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.558	1.0588E+009	8.3141E+007	BV +	0.000	99.9763
2	1.452	49781	23527	VVA	0.035	0.0047
3	2.487	2636	4646	VV +	0.000	0.0002
4	3.807	102874	209668	PV +	0.000	0.0097
5	5.372	94466	178950	VB +	0.000	0.0089
6	6.762	1767	98	BB +	0.000	0.0002

Total area = 1.05905E+009



Area Percent Report

Data File Name : C:\HPCHEM\1\DATA\06-03-15\037R1001.D
Operator : mwdl
Instrument : GC1
Sample Name : 506025-03
Run Time Bar Code:
Acquired on : 03 Jun 15 04:34 PM
Report Created on: 03 Jun 15 04:45 PM

Page Number : 1
Vial Number : 37
Injection Number : 1
Sequence Line : 10
Instrument Method: DX.MTH
Analysis Method : istnddx.MTH

Sig. 2 in C:\HPCHEM\1\DATA\06-03-15\037R1001.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	2.542	2521	5124	BBAS	0.008	1.2828
2	2.646	197	175	BB	0.019	0.1000
3	2.686	163	191	BB	0.014	0.0828
4	2.754	179	188	BB	0.020	0.0909
5	2.898	1302	2457	BB	0.009	0.6626
6	3.125	191	246	BB	0.013	0.0972
7	3.216	744	1335	BB	0.015	0.3788
8	3.490	462	911	BB	0.008	0.2352
9	3.600	143	291	BB	0.008	0.0726
10	3.673	97165	218078	BB	0.019	49.4497
11	3.734	331	733	BB	0.008	0.1686
12	3.957	371	673	BB	0.009	0.1889
13	4.056	537	818	BB	0.011	0.2731
14	4.160	384	731	BB	0.012	0.1957
15	4.347	1077	909	BB	0.026	0.5481
16	4.473	88564	186166	BB	0.008	45.0722
17	4.530	420	812	BB	0.009	0.2138
18	4.566	241	387	BB	0.010	0.1226
19	4.603	373	634	BB	0.015	0.1899
20	4.709	377	705	BB	0.009	0.1917

21	4.887	492	670	BB	0.012	0.2505
22	5.066	260	387	BB	0.011	0.1323

Total area = 196493

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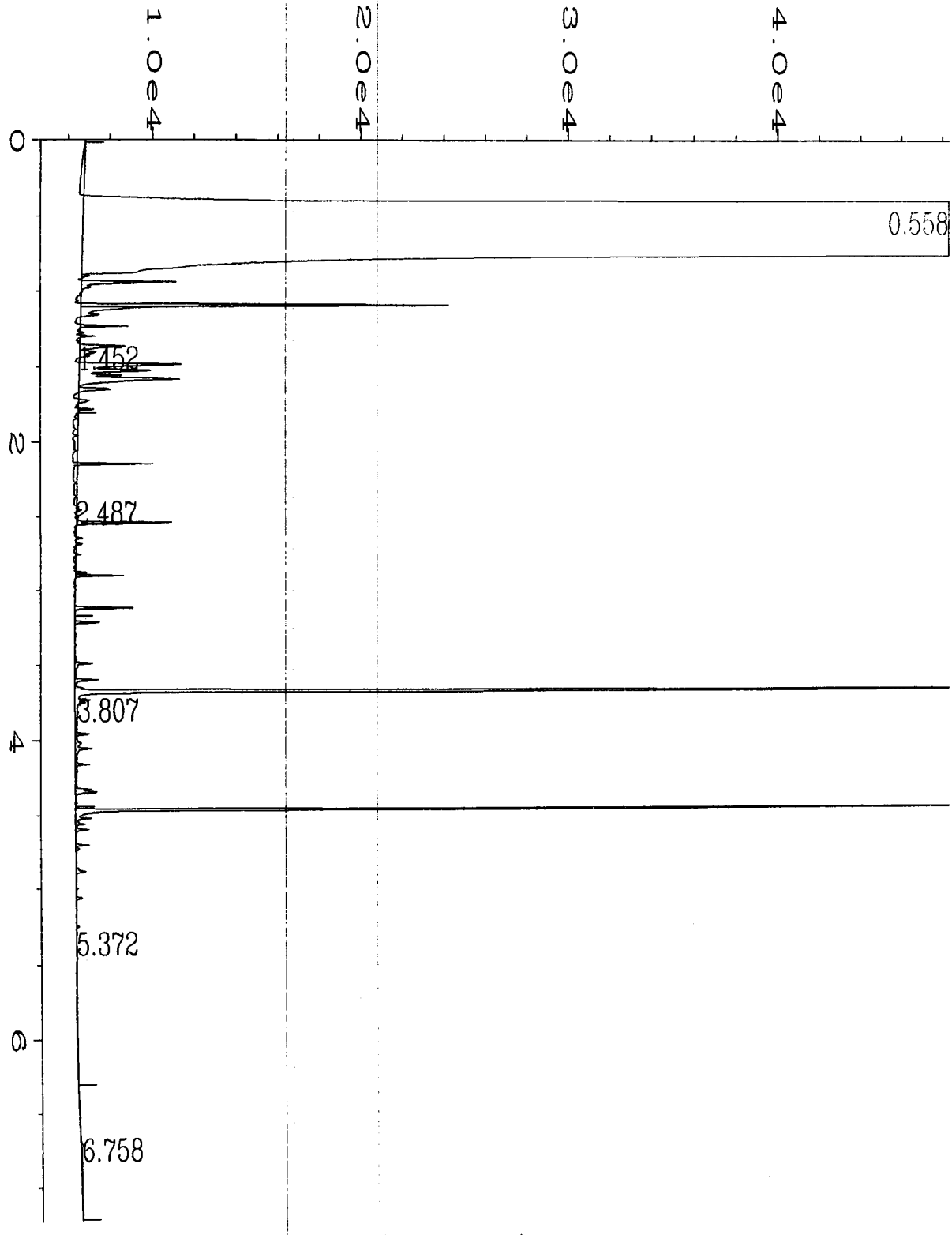
Last modified 4/21/15 mwdl			TPHDSL.XLS				
Data File Name	: C:\HPCHEM\1\DATA\06-03-15\037F1001.D						
Operator	: mwdl			Page Number		: 1	
Instrument	: GC1			Vial Number		: 37	
Sample Name	: 506025-03			Injection Number		: 1	
Run Time Bar Code:				Sequence Line		: 10	
Acquired on	6/3/15	16:34		Instrume	DX.MTH		
Report Created on: 03 Jun 15 04:45 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							
97	>4.44	<4.53	88564	9.11E+04		1/14/15	
o-Terphenyl							
97	>3.63	<3.72	97165	1.00E+05		1/14/15	
Results			Area	Resp. factor		Calibrated	
Diesel, start C10 - start C25							
1	>1.8	<4.44	8.35E+03	7.66E+03		1/14/15	
NWTPH-DX, start C10 - end C36							
2	>1.8	<6.3	14246	7.75E+03		1/14/15	
Motor Oil, start C25 - end C36							
1	>4.44	<6.3	5901	5.16E+03		1/14/15	
Heavy Oil, start C17- end C36							
2	>3.17	<6.3	11610	6.80E+03		1/14/15	
C12-C24							
1	>1.8	<4.44	8345	6.37E+03		6/22/11	
Stoddard, start C8 - end C11							
6	>1.1	<3.17	52417	8.41E+03		1/16/15	
Kerosene C8-C20							
9	>1.1	<4.44	58126	6.28E+03		7/5/12	
Bunker C							
3	>1.8	<6.3	14247	4.27E+03		9/19/11	
Calibration Info:							
Stoddard (8-11)	6						
TPHD (8-36)	2						
TPHDX (8-36)	1						
Motor Oil (8-36	2						



Data File Name : C:\HPCHEM\1\DATA\06-03-15\038F1001.D
Operator : mwdl
Instrument : GC1
Sample Name : 506025-04
Run Time Bar Code:
Acquired on : 03 Jun 15 04:45 PM
Report Created on: 03 Jun 15 04:56 PM

Page Number : 1
Vial Number : 38
Injection Number : 1
Sequence Line : 10
Instrument Method: DX.MTH
Analysis Method : DX.MTH

Area Percent Report

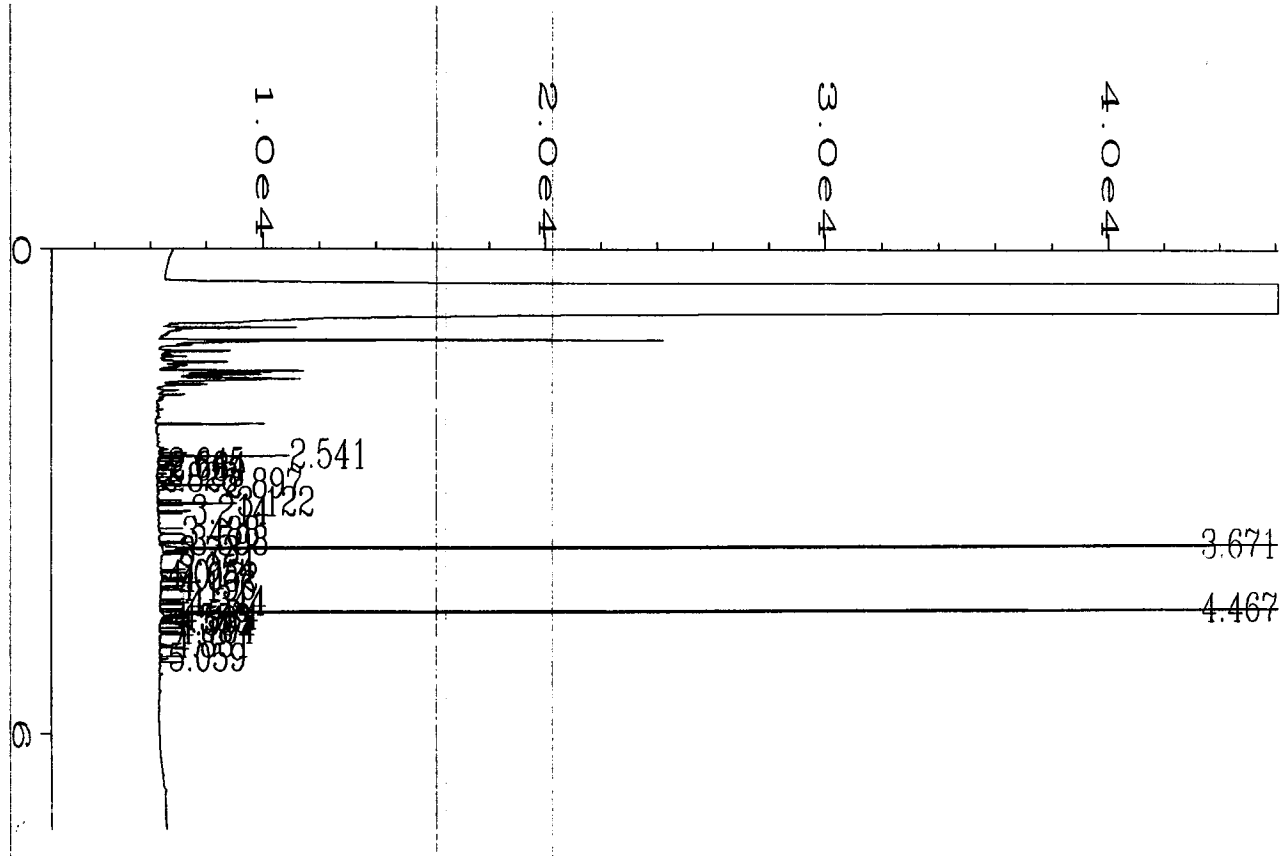
Data File Name : C:\HPCHEM\1\DATA\06-03-15\038F1001.D
Operator : mwdl
Instrument : GC1
Sample Name : 506025-04
Run Time Bar Code:
Acquired on : 03 Jun 15 04:45 PM
Report Created on: 03 Jun 15 04:56 PM

Page Number : 1
Vial Number : 38
Injection Number : 1
Sequence Line : 10
Instrument Method: DX.MTH
Analysis Method : DX.MTH

Sig. 1 in C:\HPCHEM\1\DATA\06-03-15\038F1001.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.558	9.83377E+008	7.93665E+007	BVA	0.207	99.9792
2	1.452	28886	5584	VVA	0.086	0.0029
3	2.487	859	4578	PB +	0.000	0.0001
4	3.807	94601	155915	BV +	0.000	0.0096
5	5.372	78362	150806	VB +	0.000	0.0080
6	6.758	1699	104	BB +	0.000	0.0002

Total area = 9.83582E+008



Area Percent Report

Data File Name : C:\HPCHEM\1\DATA\06-03-15\038R1001.D
Operator : mwdl
Instrument : GC1
Sample Name : 506025-04
Run Time Bar Code:
Acquired on : 03 Jun 15 04:45 PM
Report Created on: 03 Jun 15 04:56 PM

Page Number : 1
Vial Number : 38
Injection Number : 1
Sequence Line : 10
Instrument Method: DX.MTH
Analysis Method : istnddx.MTH

Sig. 2 in C:\HPCHEM\1\DATA\06-03-15\038R1001.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	2.541	2302	4836	BBAS	0.008	1.3253
2	2.645	282	419	BB	0.011	0.1624
3	2.684	265	404	BB	0.013	0.1527
4	2.753	278	376	BB	0.017	0.1600
5	2.823	124	131	BB	0.016	0.0714
6	2.897	1660	2483	BB	0.018	0.9555
7	3.122	1707	3033	BB	0.009	0.9828
8	3.214	673	1247	BB	0.014	0.3875
9	3.488	406	816	BB	0.008	0.2335
10	3.598	569	1140	BB	0.008	0.3277
11	3.671	84225	166028	BB	0.008	48.4921
12	3.731	255	564	BB	0.008	0.1469
13	3.954	332	637	BB	0.009	0.1910
14	4.017	174	188	BB	0.015	0.1004
15	4.052	477	693	BB	0.011	0.2746
16	4.156	360	665	BB	0.013	0.2073
17	4.344	1215	1045	BB	0.019	0.6995
18	4.467	76486	156082	BB	0.017	44.0367
19	4.524	371	668	BB	0.009	0.2134
20	4.559	252	425	BB	0.010	0.1450

21	4.597	392	612	BB	0.016	0.2260
22	4.704	395	659	BB	0.010	0.2273
23	4.881	275	492	BB	0.017	0.1582
24	5.059	213	306	BB	0.017	0.1227

Total area = 173687

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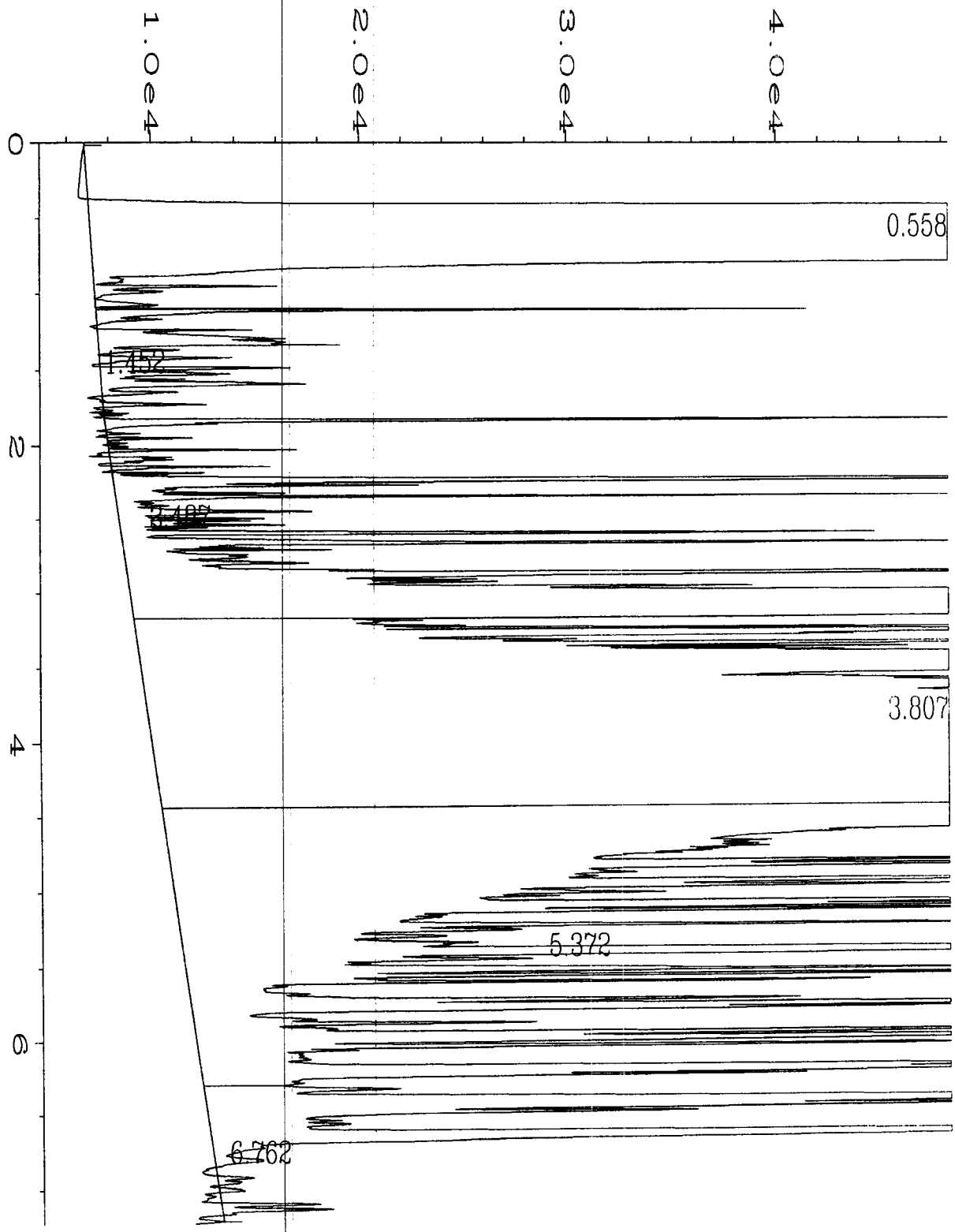
Last modified 4/21/15 mwdl			TPHDSL.XLS			
Data File Name	: C:\HPCHEM\1\DATA\06-03-15\038F1001.D					
Operator	: mwdl			Page Number	: 1	
Instrument	: GC1			Vial Number	: 38	
Sample Name	: 506025-04			Injection Number	: 1	
Run Time Bar Code:				Sequence Line	: 10	
Acquired on	6/3/15	16:45		Instrume	DX.MTH	
Report Created on: 03 Jun 15 04:56 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						
84	>4.44	<4.53	76486	9.11E+04		1/14/15
o-Terphenyl						
84	>3.63	<3.72	84225	1.00E+05		1/14/15
Results			Area	Resp. factor		Calibrated
Diesel, start C10 - start C25						
1	>1.8	<4.44	1.12E+04	7.66E+03		1/14/15
NWTPH-DX, start C10 - end C36						
2	>1.8	<6.3	13110	7.75E+03		1/14/15
Motor Oil, start C25 - end C36						
0	>4.44	<6.3	1875	5.16E+03		1/14/15
Heavy Oil, start C17- end C36						
2	>3.17	<6.3	12251	6.80E+03		1/14/15
C12-C24						
2	>1.8	<4.44	11235	6.37E+03		6/22/11
Stoddard, start C8 - end C11						
4	>1.1	<3.17	29745	8.41E+03		1/16/15
Kerosene C8-C20						
6	>1.1	<4.44	40121	6.28E+03		7/5/12
Bunker C						
3	>1.8	<6.3	13111	4.27E+03		9/19/11
Calibration Info:						
Stoddard (8-11)	4					
TPHD (8-36)	2					
TPHDX (8-36)	2					
Motor Oil (8-36	2					



Data File Name : C:\HPCHEM\1\DATA\06-03-15\039F1001.D
Operator : mwdl
Instrument : GC1
Sample Name : 506025-05
Run Time Bar Code:
Acquired on : 03 Jun 15 04:57 PM
Report Created on: 03 Jun 15 05:07 PM

Page Number : 1
Vial Number : 39
Injection Number : 1
Sequence Line : 10
Instrument Method: DX.MTH
Analysis Method : DX.MTH

Area Percent Report

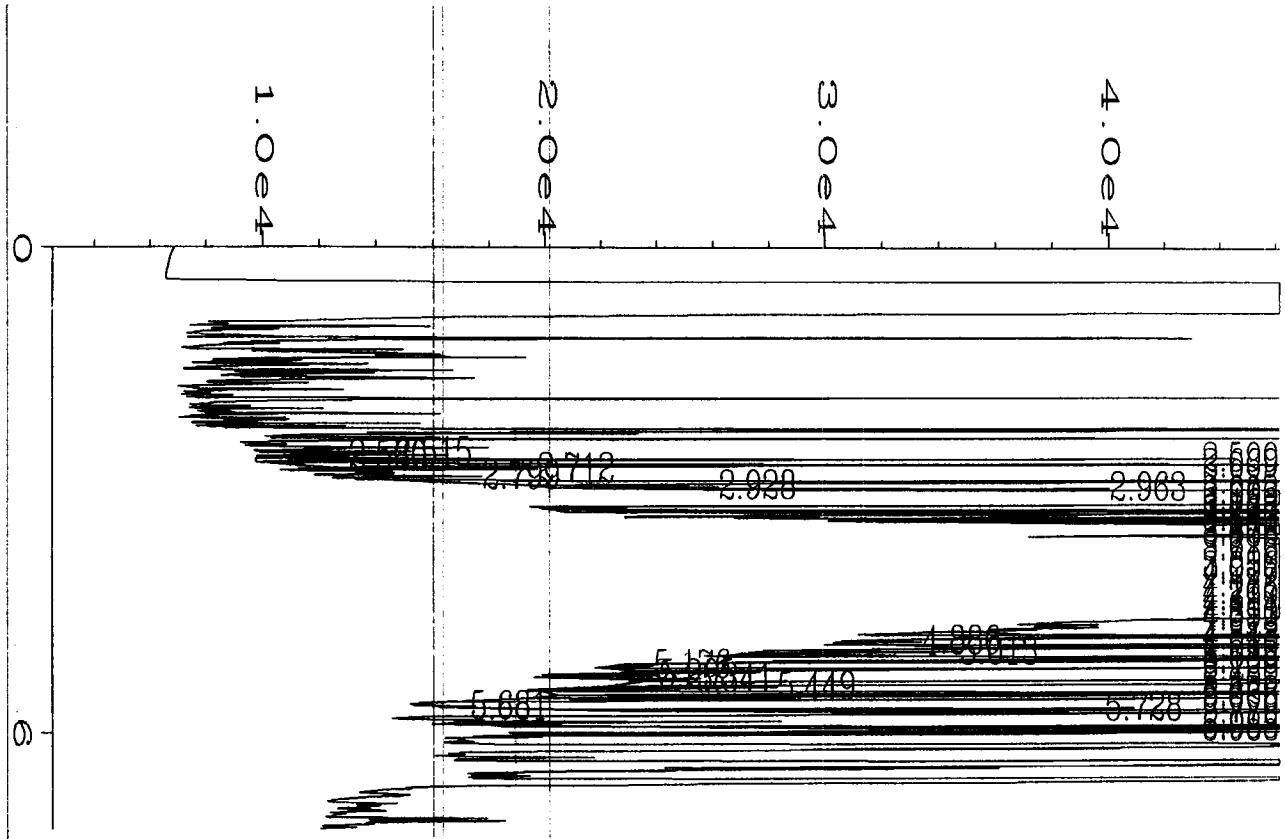
Data File Name : C:\HPCHEM\1\DATA\06-03-15\039F1001.D
Operator : mwdl
Instrument : GC1
Sample Name : 506025-05
Run Time Bar Code:
Acquired on : 03 Jun 15 04:57 PM
Report Created on: 03 Jun 15 05:07 PM

Page Number : 1
Vial Number : 39
Injection Number : 1
Sequence Line : 10
Instrument Method: DX.MTH
Analysis Method : DX.MTH

Sig. 1 in C:\HPCHEM\1\DATA\06-03-15\039F1001.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.558	1.03407E+009	8.07319E+007	BV +	0.000	95.0136
2	1.452	126189	33920	VV +	0.000	0.0116
3	2.487	5239435	1070470	PV +	0.000	0.4814
4	3.807	4.41431E+007	4324059	VVA	0.170	4.0560
5	5.372	3861042	519985	VVA	0.124	0.3548
6	6.762	898785	248733	VB +	0.000	0.0826

Total area = 1.08834E+009



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Area Percent Report

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Data File Name : C:\HPCHEM\1\DATA\06-03-15\039R1001.D
Operator : mwdl
Instrument : GC1
Sample Name : 506025-05
Run Time Bar Code:
Acquired on : 03 Jun 15 04:57 PM
Report Created on: 03 Jun 15 05:07 PM

Page Number : 1
Vial Number : 39
Injection Number : 1
Sequence Line : 10
Instrument Method: DX.MTH
Analysis Method : istnddx.MTH

Sig. 2 in C:\HPCHEM\1\DATA\06-03-15\039R1001.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	2.515	1421	3714	BBAS	0.006	0.0033
2	2.560	3622	2957	BB	0.020	0.0084
3	2.599	29844	36618	BB	0.014	0.0691
4	2.669	44930	46105	BB	0.018	0.1040
5	2.712	1739	7761	BB	0.004	0.0040
6	2.799	5288	5061	BB	0.017	0.0122
7	2.875	206817	323377	BB	0.023	0.4789
8	2.928	6086	6789	BB	0.015	0.0141
9	2.963	9078	14810	BB	0.010	0.0210
10	3.003	199763	214372	BB	0.016	0.4626
11	3.093	62072	122156	BB	0.008	0.1437
12	3.162	1883424	990039	BB	0.032	4.3615
13	3.237	20274	35221	BB	0.010	0.0469
14	3.265	142498	226339	BB	0.010	0.3300
15	3.342	28526	85750	BB	0.006	0.0661
16	3.472	1566801	682088	BB	0.035	3.6283
17	3.506	12965	27113	BB	0.008	0.0300
18	3.538	18033	14051	BB	0.020	0.0418
19	3.676	37077	185085	BB	0.003	0.0859
20	3.713	21890	27599	BB	0.013	0.0507

21	3.899	1.87771E+007	4237603	BB	0.056	43.4825
22	3.956	69662	73616	BB	0.019	0.1613
23	4.017	7293	7702	BB	0.016	0.0169
24	4.172	1.81168E+007	3970530	BB	0.057	41.9532
25	4.265	60960	42078	BB	0.022	0.1412
26	4.339	42620	43523	BB	0.016	0.0987
27	4.414	18789	39893	BB	0.009	0.0435
28	4.511	228470	179939	BB	0.021	0.5291
29	4.550	27236	53329	BB	0.009	0.0631
30	4.593	172842	148823	BB	0.019	0.4003
31	4.813	18749	54274	BB	0.006	0.0434
32	4.842	54676	96455	BB	0.009	0.1266
33	4.886	2357	2989	BB	0.013	0.0055
34	4.940	49994	63450	BB	0.013	0.1158
35	4.975	13147	17477	BB	0.013	0.0304
36	5.013	6235	7580	BB	0.014	0.0144
37	5.085	96718	168311	BB	0.010	0.2240
38	5.133	70423	46854	BB	0.025	0.1631
39	5.176	1829	1590	BB	0.019	0.0042
40	5.228	26592	30803	BB	0.014	0.0616
41	5.295	6810	3449	BB	0.029	0.0158
42	5.341	1878	2861	BB	0.011	0.0043
43	5.405	637259	503930	BB	0.019	1.4757
44	5.449	7408	7559	BB	0.016	0.0172
45	5.528	47738	35305	BB	0.019	0.1105
46	5.563	37942	49898	BB	0.013	0.0879
47	5.606	23407	28325	BB	0.014	0.0542
48	5.681	206	1351	BB	0.003	0.0005
49	5.728	19799	19949	BB	0.016	0.0458
50	5.770	172379	169761	BB	0.016	0.3992
51	5.955	34921	41976	BB	0.014	0.0809
52	5.988	28828	30517	BBA	0.015	0.0668

Total area = 4.31832E+007

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Last modified 4/21/15 mwdl TPHDSL.XLS

Data File Name : C:\HPCHEM\1\DATA\06-03-15\039F1001.D

Operator : mwdl Page Number : 1

Instrument : GC1 Vial Number : 39

Sample Name : 506025-05 Injection Number : 1

Run Time Bar Code: Sequence Line : 10

Acquired on 6/3/15 16:57 Instrume DX.MTH

Report Created on: 03 Jun 15 05:07 PM Analysis Method : DX.MTH

Surr / IS	**Ret Time window**		**Area**	**Avg. Area**		
Triacontane						Calibrated
32	>5.22	<5.26	26592	8.24E+04		9/25/13
Pentacosane						
251	>4.44	<4.53	228470	9.11E+04		1/14/15
o-Terphenyl						
37	>3.63	<3.72	37077	1.00E+05		1/14/15
Results			Area	Resp. factor		Calibrated
Diesel, start C10 - start C25						
6444	>1.8	<4.44	4.93E+07	7.66E+03		1/14/15
NWTPH-DX, start C10 - end C36						
6834	>1.8	<6.3	52951438	7.75E+03		1/14/15
Motor Oil, start C25 - end C36						
699	>4.44	<6.3	3605980	5.16E+03		1/14/15
Heavy Oil, start C17- end C36						
7017	>3.17	<6.3	47712003	6.80E+03		1/14/15
C12-C24						
7743	>1.8	<4.44	49345458	6.37E+03		6/22/11
Stoddard, start C8 - end C11						
638	>1.1	<3.17	5365624	8.41E+03		1/16/15
Kerosene C8-C20						
7879	>1.1	<4.44	49471647	6.28E+03		7/5/12
Bunker C						
12412	>1.8	<6.3	52978030	4.27E+03		9/19/11

Calibration Info:	
Stoddard (8-11)	638
TPHD (8-36)	6231
TPHDX (8-36)	6158
Motor Oil (8-36	9248