

Software Version: 4.1<0G07>
 Sample Name: 9907SED009S002 34/11-4 3924m
 Instrument: SAC_GC
 Raw Data File: C:_DATA\B9907009\ARO002.RAW
 Sequence File: C:_DATA\B9907008\ARO.SEQ

Aromatics GC

Component Name	Time [min]	Area [$\mu\text{V}\cdot\text{s}$]	Area [%]
1-ME NAPTHALENE	9.3	29146	5.94
2-ME NAPTHALENE	9.522	27702.5	5.64
2,6+2,7-DIMETHYLNAPT	10.918	29032.3	5.91
1,3+1,7-DIMETHYLNAPT	11.093	28736.49	5.85
1,6-DIMETHYLNAPTHALE	11.14	24634.98	5.02
	11.15	2943.87	0.6
1,5+1,5+2,3-DIMETHYL	11.377	27581.4	5.62
1,2-DIMETHYLNAPTHALE	11.57	0	0
	12.26	9251.8	1.88
	12.474	10192.43	2.08
	12.543	17332.65	3.53
	12.612	20522.92	4.18
	12.803	24720.25	5.03
	12.857	13259.8	2.7
	13.028	28803.15	5.87
	13.182	10199.51	2.08
	13.303	15721.09	3.2
	14.554	6205.91	1.26
	14.612	8122.23	1.65
	14.691	13202.36	2.69
PHENANTHRENE	15.498	18262.6	3.72
	16.808	12415.12	2.53
3-ME PHENANTHRENE	16.86	12977.48	2.64
2-ME PHENANTHRENE	16.91	0	0
	17.058	23230.03	4.73
9-ME PHENANTHRENE	17.112	21259.77	4.33
1-ME PHENANTHRENE	17.168	0	0
	18.281	24297.8	4.95
	18.343	6320.5	1.29
	19.649	9922.6	2.02
	22.143	6211.8	1.27
	23.169	8719.7	1.78
	33.784	92.72	0.02
		491021.8	100

GC-MS PEAK HEIGHT DATA

MPDMIO00853021.LIS	
34/11-4 3924m	
PEAK HEIGHTS	\$9907\$SED009\$S002\$
PRISTANE	19564600
PHYTANE	20323600
C19 TRICYCLIC TERPANE(19/3)	1569050
C20 TRICYCLIC TERPANE(20/3)	862106
C21 TRICYCLIC TERPANE(21/3)	1252200
C22 TRICYCLIC TERPANE(22/3)	208962
C23 TRICYC TERPANE(T5:23/3)	1604730
C24 TRICYC TERPANE (24/3)	1473390
C25 TRICYC TERPANE (25/3)	746312
C24 TETRACYC TERP (\$:24/4)	1340290
C26 TRICYCLIC TERPANE(26/3)	895869
C26 TRICYCLIC TERP 2 (26/3)	620571
C28 TRICYCLIC TERPANE(28/3)	854797
C28 TRICYCLIC TERP 2 (28/3)	880817
C29 TRICYCLIC TERPANE(29/3)	1386540
C29 TRICYCLIC TERP 2 (29/3)	1009990
C27 18A HOPANE (Ts:27Ts)	9559550
C27 17A HOPANE (Tm:27Tm)	4322190
C30 TRICYCLIC TERPANE(30/3)	0
C30 TRICYCLIC TERP 2 (30/3)	0
25-TRISNORm/z177(25nor28ab)	0
C28 BISNORHOPANE (X:28ab)	1116850
25-NOR m/z177 (Y:25nor30ab)	0
25-NORHOPANE (Y:25nor30ab)	0
C29 HOPANE (D:29ab)	2777310
C29 18A NORHOPANE (D2:29T)	5862200
C30 C30 DIAHOPANE (P:30d)	6928410
C29 NORMORETANE (A:29ba)	708615
C30 18A OLEANANE (B:30O)	0
C30 HOPANE (G:30ab)	10253000
NOR-GAMMACERANE? (G)	0
C30 MORETANE (K:30ba)	1049530
C31 22S HOPANE (N:31abS)	4496440
C31 22R HOPANE (O:31abR)	3234250
C31 22S M/Z205 (N205)	1608030
C31 22R M/Z205 (O205)	1362040
C30 GAMACERANE (S:30G)	0
C30 17B 21B HOPANE (P)	1212300
C32 22S HOPANE (U:32abS)	3920060
C32 22R HOPANE (V:32abR)	2746150
C33 22S HOPANE(Alpha:33abS)	2451730
C33 22R HOPANE (Beta:33abR)	2043190
C34 22S HOPANE(Gamma:34abS)	1637930
C34 22R HOPANE(Delta:34abR)	1169950
C35 22S HOP (Epsilon:35abS)	1260110
C35 22R HOPANE (Zeta:35abR)	894573
C21 STERANE	4124150
C27 20S DIASTER (10:27dbS)	7553170
C27 20R DIASTER (11:27dbR)	5047430
C27 20S AAA STER (20:27aaS)	1656300
C29 20S DIASTER (21A:29dbS)	4825950
C27 20R ISOST218(21B:27bbR)	2364620
C27 20S ISOST218 (22:27bbS)	1765420
C27 20R ISOSTER 217 (27bbR)	4825950
C27 20S ISOSTER 217 (27bbS)	1508400
C27 20R AAA STER (25:27aaR)	1076470
C29 20R DIASTER (27:29dbR)	3693290
C28 20R ISOST218(33A:28bbR)	2003150
C28 20S ISOST218 (34:28bbS)	1888530
C28 20R ISOSTER 217 (28bbR)	2785880
C28 20S ISOSTER 217 (28bbS)	1652490
C28 20R AAA STER (36:28aaR)	357095
C29 20S AAA STER (39:29aaS)	1394190
C29 20R ISOST218 (40:29bbR)	1875480
C29 20S ISOST218 (41:29bbS)	1963280
C29 20R ISOSTER217 (29bbR)	1705080
C29 20S ISOSTER217 (29bbS)	1635550
C29 20R AAA STER (42:29aaR)	662809
C30 20R ISOSTER218 (30bbR)	799118
C30 20S ISOSTER218 (30bbS)	805053
C30 4-METHYL STERANE (46)	389311

GC-MS PEAK HEIGHT DATA

MPDMIO00853021.LIS	
34/11-4 3924m	
PEAK HEIGHTS	\$9907SED009S002\$
2-ME NAPHTHALENE	336088992
1-ME NAPHTHALENE	345264000
2-ME BIPHENYL	21849000
3-ME BIPHENYL	70137800
4-ME BIPHENYL	22628000
PHENANTHRENE	77817504
3-ME PHENANTHRENE	34024100
2-ME PHENANTHRENE	27701500
9-ME PHENANTHRENE	146150000
1-ME PHENANTHRENE	62336600
DIBENZOTHIOPHENE	1945960
4-ME DIBENZOTHIOPHENE	22529000
3+2-ME DIBENZOTHIOPHENE	1637450
1-ME DIBENZOTHIOPHENE	1496850
C21 MA STERANE (F22:A1)	3912570
C22 MA STERANE (F23:B1)	2888940
C27 20S 5B DM MA-ST(F2:C1)	152611
C27 20S 10B DM MA-DIA (C1)	1430420
C27 20R 5B DM MA-ST(F3:D1)	1096260
C27 20S 5A DM MA-ST(F4:D1)	547470
C28 20S 5B DM MA-ST(F5:E1)	1554960
C27 20S 5A DM MA-DS(:F1)	460088
C27 20R 5A DM MA-ST(F6:G1)+	592316
C28 20S 5A DM MA-ST(F7:G1)	592316
C28 20R 5B DM MA-ST(F8:G1)	1150210
C29 20S 5B DM MA-ST(F9:G1)	1430150
C29 20S 5A DM MA-ST(F10:H1)	331962
C28 20R 5A DM MA-ST(F11:H1)	752012
C29 20R 5B DM MA-ST(F12:H1)	0
C29 20R 5A DM MA-ST(F13:I1)	391513
C20 ME TA-STER(F14:a1)	20445300
C21 ME TA-STER(F15:b1)	19262400
C26 20S ME TA-STER(F16:c1)	1530110
C26 20R ME TA-STER(F17:d1)+	3435010
C27 20S ME TA-STER(F18:d1)	3435010
C28 20S ME TA-STER(F19:e1)	2043730
C27 20R ME TA-STER(F20:f1)	1545780
C28 20R ME TA-STER(F21:g1)	1914030
?C21 20S DIASTER	3753900
?C21 20R DIASTER	1801070
?C21 AAA+ABB	4124150
?C22 DIASTER	0
?C22 AAA+ABB	1562890

GC-MS BIOMARKER PARAMETERS

HSRUN	34/11-4 3924m MPDMIO0853021
H1	C32 HOPANES 22S/(22S+22R) 0.59
H2	C31 HOPANES 22S/(22S+22R) M/Z205 0.54
H3	C30: HOPANE/(HOPANE+MORETANE) 0.91
H4	C30: BB HOPANE / C30 HOPANE AS %
H5_0	C29 HOPANE AS % C30 27.09
H5_1	HOPANE DISTRIBUTION RELATIVE TO C30 100
H5_2	C31 HOPANES AS % OF C30 (205 CORRECTED) 81
H5_3	C32 HOPANES 65.02
H5_4	C33 HOPANES 43.84
H5_5	C34 HOPANES 27.39
H5_6	C35 HOPANES 21.02
H6	C27 HOPANES TS/(TS+TM) 0.69
H7	C33 HOPANES 22S/(22S+22R) 0.55
H11	C23 TRICYCLIC/C30 HOPANE AS % 15.65
H12	C24 TETRACYCLIC/C30 HOPANE AS % 13.07
H13	28 30 BISNORHOPANE/HOPANE AS %
H14	C30 DIAHOPANE PI/HOPANE AS % 67.57
H15	OLEANANE/HOPANE AS %
H16	GAMMACERANE/HOPANE AS % (205 BACK CALCULATE
H17	HOPANE INDEX C35/(C35+C34) % 43.42
H18	25-NORHOPANE(Y)/HOPANE AS % G
H19	C29 18A-NORHOPANE D2/C30 HOPANE AS % 57.18
S1	C29 STERANES 20S/(20S+20R) 0.68
S2	C29 STERANES m/z218 ABB/(ABB+AAA) 0.65
S3_1	STERANE DISTRIBUTION AAA C27 % 51.35
S3_2	C28 % 17.03
S3_3	C29 % 31.62
S4_1	STERANE DISTRIBUTION ABB C27 % 34.82
S4_2	C28 % 32.81
S4_3	C29 % 32.37
S5	BA DIASTERANES/(BA DIASTERANES+AAA+ABB STERAN 56.82
S7	STERANE INDEX C27/(C27+C29) % FROM S3 61.89
S8	C30 4-ME STERANE AS % OF C29 20R AAA
M4	SUM C27 TO C35 HOPANES/(SAME+C27 TO C29 STERANE 47.74
PR/PH	PRISTANE/PHYTANE RATIO ESTIMATE 1.44
M2	PHENANTHRENES (3ME+2ME) / (9ME+1ME) 0.33
M3	MPI1 PHENANTHRENES (3ME+2ME) / (9ME+1ME+PHEN) * 0.4
A1	ARO STERANES: C28 20R TRI/(SAME+C29 20R 5A&B MON 0.7
A2	ARO STERANES: SUM TRI/(SAME+SUM MONO)(F9&F12spl 0.76
A3	TRI ARO STERANES: C20/(C20+C28 20R) 0.91
A4	TRI ARO STERANES: (C20+C21)/(SAME+SUM C26 TO C28) 0.79
A5	TRI ARO STERANES: C26 20S / C28 20S 0.75
A6	TRI ARO STERANES: C27 20R / C28 20R 0.81
MDR	4-ME DIBENZOTHIOPHENE / 1-ME DIBENZOTHIOPHENE 15.05
MBP	3-METHYLBIPHENYL / 2-METHYLBIPHENYL 3.21
MNR	2-ME NAPHTHALENE/1-ME NAPHTHALENE 0.97
SMN	(2-ME NAPHTH+1-ME NAPHTH)/C23 TRICYCLIC
DBTP	DIBENZOTHIOPHENE(MZ184)/PHENANTHRENE(MZ178) 0.03
T19	C19 TRICYCLIC/C23 TRICYCLIC % 97.78
T20	C20 TRICYCLIC/C23 TRICYCLIC % 53.72
T21	C21 TRICYCLIC/C23 TRICYCLIC % 78.03
T22	C22 TRICYCLIC/C23 TRICYCLIC % 13.02
T23	C23 TRICYCLIC/C23 TRICYCLIC % 100
T24	C24 TRICYCLIC/C23 TRICYCLIC % 91.82
T25	C25 TRICYCLIC/C23 TRICYCLIC % 46.51
T26	C26 TRICYCLICS/C23 TRICYCLIC % 94.5
T28	C28 TRICYCLICS/C23 TRICYCLIC % 108.16
T29	C29 TRICYCLICS/C23 TRICYCLIC % 149.34
T30	C30 TRICYCLICS/C23 TRICYCLIC %
19/23	C19 TRICYCLIC/C23 TRICYCLIC AS % 97.78
20/21	C20 TRICYCLIC/C21 TRICYCLIC AS % 68.85
22/21	C22 TRICYCLIC/C21 TRICYCLIC AS % 16.69
24/23	C24 TRICYCLIC/C23 TRICYCLIC AS % 91.82
26/25	C26 TRICYCLICS/C25 TRICYCLIC AS % 203.19
244_24	C24 TETRACYCLIC/C24 TRICYCLIC AS % 90.97
TET_23	C24 TETRACYCLIC/C23 TRICYCLIC AS % 83.52

CARBON ISOTOPE DATA

34/11-4 Cuttings Extracts

SAMPLE CODE	DEPTH (m)	SATURATES	AROMATICS	RESIDUE	ASPHALTENES	WHOLE OIL	KEROGEN
9907SED009S002	3924.00	-31.1	-30.2	-29.9	-29.1	-30.4	-29.5
del 13 C PBD		Std NBS22 -29.8					

BULK COMPOSITION OF EXTRACTS**34/11-4T2 Cuttings Extracts**

Sample code	Depth (m)	Wt Ext (g)	EOM (mg)	TSE %wt	Saturates %wt	Aromatics %wt	Residue %wt	Asph %wt	HC %wt	NonHC %wt
9907SED008S001	3960	0.36465	364.65	7.182	91.6	0.0	6.4	1.98	91.6	6.4
9907SED008S004	3996	0.28906	289.06	5.758	91.6	0.4	7.2	0.88	92.0	7.2
9907SED008S006	4017	0.25596	255.96	4.791	88.5	1.6	9.5	0.38	90.1	9.5
9907SED008S008	4041	0.32628	326.28	5.316	88.8	0.0	8.0	3.18	88.8	8.0
9907SED008S010	4065	0.26611	266.11	5.277	84.0	0.0	13.1	2.96	84.0	13.1
9907SED008S012	4089	0.22418	224.18	4.439	88.84	0	6.63	4.53	88.8	6.6
9907SED008S014	4119	0.23778	237.78	4.670	90.7	0.31	8.07	0.92	91.0	8.1

EXTRACTION DATA 1
34/11-4T2 Cuttings Extracts

Sample code	Depth (m)	Rock (g)	EOM (mg)	EOM (mg/Kg rock)	Sat/EOM %	Aro/EOM %	Pol/EOM %	Asph/EOM %	HC/EOM %	NON HC/EOM %
9907SED008S001	3960	5.077	364.65	71824	91.6	0.0	6.4	1.98	91.6	6.4
9907SED008S004	3996	5.02	289.06	57582	91.6	0.4	7.2	0.88	92.0	7.2
9907SED008S006	4017	5.342	255.96	47915	88.5	1.6	9.5	0.38	90.1	9.5
9907SED008S008	4041	6.138	326.28	53157	88.8	0.0	8.0	3.18	88.8	8.0
9907SED008S010	4065	5.043	266.11	52768	84.0	0.0	13.1	2.96	84.0	13.1
9907SED008S012	4089	5.05	224.18	44392	88.84	0	6.63	4.53	88.8	6.6
9907SED008S014	4119	5.092	237.78	46697	90.7	0.31	8.07	0.92	91.0	8.1

EXTRACTION DATA 2
34/11-4T2 Cuttings Extracts

Sample code	Depth (m)	Rock (g)	TOC %	EOM/TOC (mg/g TOC)	Sat (mg/g TOC)	Aro (mg/g TOC)	Pol (mg/g TOC)	Asph (mg/g TOC)	100*Sat/Aro %	100*HC/NON HC %
9907SED008S001	3960	5.077	5.84	12.30	3.09	0.00	0.22	0.07	0	1432
9907SED008S004	3996	5.02	5.96	9.66	3.06	0.01	0.24	0.03	24754	1283
9907SED008S006	4017	5.342	7.39	6.48	2.24	0.04	0.24	0.01	5396	950
9907SED008S008	4041	6.138	3.10	17.15	4.67	0.00	0.42	0.17	0	1113
9907SED008S010	4065	5.043	2.06	25.62	8.08	0.00	1.26	0.28	0	644
9907SED008S012	4089	5.05	2.18	20.36	8.07	0.00	0.60	0.41	0	1340
9907SED008S014	4119	5.092	3.35	13.94	5.32	0.02	0.47	0.05	29258	1128

SATURATE GC

34/11-4T2 Cuttings Extracts	9907SED008S001	9907SED008S004	9907SED008S006
Depth (m)	3960m	3996m	4017m
Saturates Fraction GC Analysis	Area	Area	Area
Component	[μ V·s]	[μ V·s]	[μ V·s]
N-C12	9913	28016.2	51575.2
N-C13	114076.28	153364.09	265288.62
N-C14	2462810.36	2040252.19	3406794.66
N-C15	1705981.8	1276269.73	1909101.6
N-C16	2349391.71	1469472.83	2135019.09
N-C17	1073882.87	991765.72	1371317.83
PRISTANE	223043.53	410466.58	575727.52
N-C18	753764.5	622276.07	782166.17
PHYTANE	200759	210095.45	209721.55
N-C19	408086.6	339628.6	464664.42
N-C20	262036.2	219769.19	277592.4
N-C21	173181.35	135215.9	182021.14
N-C22	101063.1	82830.9	105394.2
N-C23	54092.2	45747.2	58409.8
N-C24	26325.8	23006.2	27940.2
N-C25	11881.2	11303.4	13243.8
N-C26	5198.45	5890.8	6013.25
N-C27	3258.4	4035	4444.2
N-C28	2544.96	3034.2	3375.7
N-C29	2823.2	3620.51	4127.59
N-C30	1358.86	1685.62	1754.6
N-C31	1298.47	1708.76	1677.9
N-C32	1097.85	1357	1170.8
N-C33	1285.4	1601.7	2234.72
N-C34	351.3	351.44	261.21
N-C35	345.43	602.41	352.2
N-C36	358.99	376.02	409.29
TOTAL	9950210.8	8083743.72	11861799.64
Batch Code	9907SED008S001	9907SED008S004	9907SED008S006
CPI (24 to 32)	1.22	1.17	1.25
Pr/Ph Ratio	1.11	1.95	2.75
Pr/n-C17	0.21	0.41	0.42
Ph/n-C18	0.27	0.34	0.27
Alkane Index (C17/(C17+C27))%	99.70	99.59	99.68
R22 Index 2*C22/(C21+C23)	0.89	0.92	0.88
(Pr/n-C17)/(Ph/n-C18)	0.779818204	1.225843828	1.565794745

Note: -1 denotes not calculated

SATURATE GC

34/11-4T2 Cuttings Extracts	9907SED008S008	9907SED008S010	9907SED008S012	9907SED008S014
Depth (m)	4041m	4065m	4089m	4119m
Saturates Fraction GC Analysis	Area	Area	Area	Area
Component	[$\mu\text{V}\cdot\text{s}$]	[$\mu\text{V}\cdot\text{s}$]	[$\mu\text{V}\cdot\text{s}$]	[$\mu\text{V}\cdot\text{s}$]
N-C12	5982.53	13632.4	19916.3	16909.6
N-C13	56590.8	67527.34	99545	64520.62
N-C14	1018942.68	886121.24	1027096.95	733055.27
N-C15	666525.16	488387.73	568385.08	366508.34
N-C16	784552.6	612141.8	789691.96	409601.8
N-C17	604672.45	326091.01	412212.11	230771.8
PRISTANE	251887.39	73541.79	95152.69	62382.96
N-C18	379253.06	217590.3	272743.79	173644.7
PHYTANE	154003.24	64393.51	100797.21	57384.55
N-C19	194380.2	130291.14	164051.3	101432.9
N-C20	121657.8	72452.4	92491	57687
N-C21	74364.8	45973.6	58667.2	36098.6
N-C22	46777.2	27801.9	36118.8	22804.2
N-C23	24490	15338.9	19945.8	12057.8
N-C24	11791.6	7333	9522.9	5900.6
N-C25	5344	2774.35	4361.8	2233.87
N-C26	2022.35	1467.13	1876.08	1253.29
N-C27	1221.87	1061.46	1129.91	780.41
N-C28	1074.6	570.45	724.02	396.6
N-C29	962.52	954.93	1014.4	616.84
N-C30	519.55	286.5	376.31	204.03
N-C31	371.64	372.09	646.8	213.03
N-C32	0	257.35	0	0
N-C33	0	449.8	0	0
N-C34	0	0	0	0
N-C35	0	0	0	0
N-C36	0	0	0	0
TOTAL	4407388.04	3056812.13	3776467.42	2356458.81
Batch Code	9907SED008S008	9907SED008S010	9907SED008S012	9907SED008S014
CPI (24 to 32)	1.35	1.27	1.49	1.28
Pr/Ph Ratio	1.64	1.14	0.94	1.09
Pr/n-C17	0.42	0.23	0.23	0.27
Ph/n-C18	0.41	0.30	0.37	0.33
Alkane Index (C17/(C17+C27))%	99.80	99.68	99.73	99.66
R22 Index 2*C22/(C21+C23)	0.95	0.91	0.92	0.95
(Pr/n-C17)/(Ph/n-C18)	1.025853849	0.762066393	0.624606723	0.817993412

Note: -1 denotes not calculated

Software Version: 4.1<0G07>
Sample Name: 9907SED008S001 34/11-4T2 3960m
Instrument: SAC_GC
Raw Data File: C:_DATA\B9907008\ARO001.RAW
Sequence File: C:_DATA\B9907008\ARO.SEQ

Aromatics GC

Component Name	Time [min]	Area [μ V-s]	Area [%]
	8.46	221144.9	6.09
1-ME NAPTHALENE	9.303	7637.2	0.21
2-ME NAPTHALENE	9.54	0	0
	9.726	16445.2	0.45
	10.237	4962	0.14
	10.471	8077.2	0.22
	10.578	28128.64	0.77
	10.647	43610.04	1.2
	10.747	23603.11	0.65
	10.913	53129.45	1.46
2,6+2,7-DIMETHYLNAPT	11.022	461516.6	12.7
	11.15	39131.6	1.08
1,3+1,7-DIMETHYLNAPT	11.155	59167.8	1.63
1,6-DIMETHYLNAPTHALE	11.193	0	0
1,5+1,5+2,3-DIMETHYL	11.312	25402.1	0.7
	11.477	22317.46	0.61
1,2-DIMETHYLNAPTHALE	11.559	19671.94	0.54
	11.626	13323.8	0.37
	11.771	35514.47	0.98
	11.82	41030.64	1.13
	11.951	88980.28	2.45
	12.025	66669.91	1.83
	12.116	44968.7	1.24
	12.223	8186.8	0.23
	12.434	45074.54	1.24
	12.498	143145.1	3.94
	12.632	37789.93	1.04
	12.796	13350.8	0.37
	12.878	20637	0.57
	12.981	16891.2	0.46
	13.131	99959.03	2.75
	13.244	90700.73	2.5
	13.315	74996.64	2.06
	13.405	39608.2	1.09
	13.552	15842.8	0.44
	13.648	310307.2	8.54
	13.767	125521.1	3.45
	13.893	12565.61	0.35
	14.05	6483.6	0.18
	14.203	17731.6	0.49
	14.322	62919.34	1.73
	14.402	68067.9	1.87
	14.471	35210.13	0.97
	14.535	49041.61	1.35
	14.623	43451.22	1.2
	14.842	25533.1	0.7
	14.959	98666.27	2.72
	15.074	20536.93	0.57
	15.236	20217.7	0.56
	15.372	9895.12	0.27
	15.469	55289.37	1.52

PHENANTHRENE	15.547	0	0
	15.63	52799.52	1.45
	15.69	24055.62	0.66
	15.777	15362.5	0.42
	15.832	8462.77	0.23
	16.095	56976.8	1.57
	16.168	5733.8	0.16
	16.569	27208.62	0.75
	16.731	20219.7	0.56
	16.783	23496.62	0.65
3-ME PHENANTHRENE	16.854	0	0
	16.875	16908.86	0.47
2-ME PHENANTHRENE	16.91	0	0
9-ME PHENANTHRENE	17.114	0	0
1-ME PHENANTHRENE	17.176	38055.8	1.05
	17.364	7998.1	0.22
	17.729	17433.88	0.48
	17.837	15832.12	0.44
	17.973	30734.7	0.85
	18.207	19283.9	0.53
	18.868	11353.4	0.31
	19.095	12244.1	0.34
	19.195	11586.4	0.32
	19.332	16875.8	0.46
	19.558	8918.06	0.25
	19.661	11340.04	0.31
	20.142	5851	0.16
	20.863	6035.9	0.17
	21.206	37129.2	1.02
	24.077	25762.1	0.71
	25.228	61139.3	1.68
	27.701	20584.4	0.57
	28.188	44359.3	1.22
	28.929	87665.4	2.41
	33.787	174.16	0
		3633635	100

GC-MS PEAK HEIGHT DATA

PEAK HEIGHTS	MPD MIO00853031	LIS MPD MIO00853041	LIS MPD MIO00853051	LIS MPD MIO00853061
	34/11-4T2 3960m \$9907SED008S001\$	34/11-4T2 3996m \$9907SED008S004\$	34/11-4T2 4017m \$9907SED008S006\$	34/11-4T2 4041m \$9907SED008S008\$
PRISTANE	0	0	0	0
PHYTANE	0	0	0	0
C19 TRICYCLIC TERPANE(19/3)	292117	552543	1154750	320683
C20 TRICYCLIC TERPANE(20/3)	1237330	1029410	2200710	2403580
C21 TRICYCLIC TERPANE(21/3)	1806860	1560170	2494170	2792310
C22 TRICYCLIC TERPANE(22/3)	580360	429980	632561	644480
C23 TRICYC TERPANE(T5:23/3)	1932590	1560610	2237180	2532370
C24 TRICYC TERPANE (24/3)	705147	533180	809887	917376
C25 TRICYC TERPANE (25/3)	298988	257142	462202	418960
C24 TETRACYC TERP (\$:24/4)	690146	569939	1084940	1142240
C26 TRICYCLIC TERPANE(26/3)	231827	221810	0	0
C26 TRICYCLIC TERP 2 (26/3)	214163	173937	0	0
C28 TRICYCLIC TERPANE(28/3)	0	0	0	0
C28 TRICYCLIC TERP 2 (28/3)	0	0	0	0
C29 TRICYCLIC TERPANE(29/3)	0	0	0	0
C29 TRICYCLIC TERP 2 (29/3)	0	0	0	0
C27 18A HOPANE (Ts:27Ts)	446580	702919	875927	464341
C27 17A HOPANE (Tm:27Tm)	1977500	1892510	3938780	4287540
C30 TRICYCLIC TERPANE(30/3)	0	0	0	0
C30 TRICYCLIC TERP 2 (30/3)	0	0	0	0
25-TRISNORm/z177(25nor28ab)	0	0	0	0
C28 BISNORHOPANE (X:28ab)	0	0	0	0
25-NOR m/z177 (Y:25nor30ab)	0	0	0	0
25-NORHOPANE (Y:25nor30ab)	0	0	0	0
C29 HOPANE (D:29ab)	6245960	5208380	11927100	14449900
C29 18A NORHOPANE (D2:29Ts)	0	0	0	0
C30 C30 DIAHOPANE (Pi:30d)	264609	429493	511702	0
C29 NORMORETANE (A:29ba)	995315	846102	1922490	1805110
C30 18A OLEANANE (B:30O)	0	0	0	0
C30 HOPANE (G:30ab)	9986030	8609110	18565500	22747300
NOR-GAMMACERANE? (G2)	0	0	0	0
C30 MORETANE (K:30ba)	2690800	2227090	4972740	5909690
C31 22S HOPANE (N:31abS)	1895500	1655290	3291950	3758780
C31 22R HOPANE (O:31abR)	2650100	2280520	5571040	6417720
C31 22S M/Z205 (N205)	639931	563975	1139090	1308530
C31 22R M/Z205 (O205)	560629	459689	943463	1079560
C30 GAMACERANE (S:30G)	0	0	0	0
C30 17B 21B HOPANE (P)	474963	460989	1402770	761906
C32 22S HOPANE (U:32abS)	1120500	943320	1751090	1853770
C32 22R HOPANE (V:32abR)	688660	621696	1077920	1292570
C33 22S HOPANE(Alpha:33abS)	536432	484779	821114	945299
C33 22R HOPANE (Beta:33abR)	428999	390695	647890	739069
C34 22S HOPANE(Gamma:34abS)	267665	241479	375360	419561
C34 22R HOPANE(Delta:34abR)	291778	215849	462051	443125
C35 22S HOP (Epsilon:35abS)	201830	220868	268678	303213
C35 22R HOPANE (Zeta:35abR)	150821	126115	199416	224137
C21 STERANE	309783	409815	472840	349132
C27 20S DIASTER (10:27dbS)	547892	689724	662697	499447
C27 20R DIASTER (11:27dbR)	377829	438720	459742	331663
C27 20S AAA STER (20:27aaS)	646292	612839	694659	647623
C29 20S DIASTER (21A:29dbS)	413061	593863	408001	379563
C27 20R ISOST218(21B:27bbR)	343472	322931	393880	339219
C27 20S ISOST218 (22:27bbS)	235957	263161	294603	258489
C27 20R ISOSTER 217 (27bbR)	413061	593863	408001	379563
C27 20S ISOSTER 217 (27bbS)	236889	253740	164103	240944
C27 20R AAA STER (25:27aaR)	1039860	1060490	1166220	1206880
C29 20R DIASTER (27:29dbR)	307133	346882	349201	284400
C28 20R ISOST218(33A:28bbR)	486019	441542	564783	637930
C28 20S ISOST218 (34:28bbS)	423804	389607	547962	546239
C28 20R ISOSTER 217 (28bbR)	609515	576085	730932	765325
C28 20S ISOSTER 217 (28bbS)	404345	386367	489400	488557
C28 20R AAA STER (36:28aaR)	1193730	1097150	1742970	1860930
C29 20S AAA STER (39:29aaS)	607199	605885	907893	934673
C29 20R ISOST218 (40:29bbR)	412267	376559	483573	505984
C29 20S ISOST218 (41:29bbS)	399650	355128	528107	538265
C29 20R ISOSTER217 (29bbR)	373027	419572	472370	481203
C29 20S ISOSTER217 (29bbS)	377641	358500	470143	493729
C29 20R AAA STER (42:29aaR)	972596	939680	1446890	1564650
C30 20R ISOSTER218 (30bbR)	105848	60075	117093	76687
C30 20S ISOSTER218 (30bbS)	0	73037	0	0
C30 4-METHYL STERANE (46)	103695	77072	172488	172442

GC-MS PEAK HEIGHT DATA

PEAK HEIGHTS	MPDMIO00853031.LIS	MPDMIO00853041.LIS	MPDMIO00853051.LIS	MPDMIO00853061.LIS
	34/11-4T2 3960m \$9907SED008S001\$	34/11-4T2 3996m \$9907SED008S004\$	34/11-4T2 4017m \$9907SED008S006\$	34/11-4T2 4041m \$9907SED008S008\$
2-ME NAPHTHALENE	2805130	4876480	23587900	5459930
1-ME NAPHTHALENE	2909080	5723400	23132100	5349610
2-ME BIPHENYL	885663	687085	1528260	575770
3-ME BIPHENYL	1257190	2452420	8282060	1755290
4-ME BIPHENYL	501311	836306	2800290	716331
PHENANTHRENE	1687460	3367720	12111000	2680950
3-ME PHENANTHRENE	474075	1361660	5935030	1020080
2-ME PHENANTHRENE	421332	1299730	5016360	889230
9-ME PHENANTHRENE	1815490	6698020	24373500	3553020
1-ME PHENANTHRENE	773832	2564490	10728300	1488390
DIBENZOTHIOPHENE	154622	241979	740167	217863
4-ME DIBENZOTHIOPHENE	367259	933882	3437350	515779
3+2-ME DIBENZOTHIOPHENE	90354	157612	629761	121692
1-ME DIBENZOTHIOPHENE	130297	165321	604396	148333
C21 MA STERANE (F2:A1)	203435	279104	309984	138497
C22 MA STERANE (F2:B1)	150788	169093	193399	128062
C27 20S 5B DM MA-ST(F2:C1)	82458	61142	69935	84800
C27 20S 10B DM MA-DIA (C1)	278879	258864	289749	315842
C27 20R 5B DM MA-ST(F3:D1)	286605	292758	380895	316967
C27 20S 5A DM MA-ST(F4:D1)	60567	0	89235	74095
C28 20S 5B DM MA-ST(F5:E1)	446835	429309	529516	508054
C27 20S 5A DM MA-DS(:F1)	52844	47925	80580	64157
C27 20R 5A DM MA-ST(F6:G1)+	137303	153701	198853	180438
C28 20S 5A DM MA-ST(F7:G1)	137303	153701	198853	180438
C28 20R 5B DM MA-ST(F8:G1)	412036	307250	417131	394298
C29 20S 5B DM MA-ST(F9:G1)	0	391740	492497	496055
C29 20S 5A DM MA-ST(F10:H1)	91424	129223	161008	96388
C28 20R 5A DM MA-ST(F11:H1)	105496	163614	157533	119799
C29 20R 5B DM MA-ST(F12:H1)	205383	261701	263084	232430
C29 20R 5A DM MA-ST(F13:I1)	91987	88053	170692	134674
C20 ME TA-STER(F14:a1)	511802	1248770	2221630	434713
C21 ME TA-STER(F15:b1)	466374	979246	1620210	352702
C26 20S ME TA-STER(F16:c1)	114011	165557	217492	121999
C26 20R ME TA-STER(F17:d1)+	526580	527061	956478	527599
C27 20S ME TA-STER(F18:d1)	526580	527061	956478	527599
C28 20S ME TA-STER(F19:e1)	290739	363456	645238	388452
C27 20R ME TA-STER(F20:f1)	263746	283061	517905	282940
C28 20R ME TA-STER(F21:g1)	287008	343372	577182	347484
?C21 20S DIASTER	543038	507737	623132	541858
?C21 20R DIASTER	175138	171203	199185	187244
?C21 AAA+ABB	309783	409815	472840	349132
?C22 DIASTER	0	0	0	0
?C22 AAA+ABB	196650	173537	273392	240295

GC-MS PEAK HEIGHT DATA

PEAK HEIGHTS	MPDMIO00853071.LIS	MPDMIO00853081.LIS	MPDMIO00853091.LIS
	34/11-4T2 4065m \$9907SED008S010\$	34/11-4T2 4089m \$9907SED008S012\$	34/11-4T2 4119m \$9907SED008S014\$
PRISTANE	0	0	0
PHYTANE	0	0	0
C19 TRICYCLIC TERPANE(19/3)	1560710	870561	1286530
C20 TRICYCLIC TERPANE(20/3)	3289900	1980070	3046010
C21 TRICYCLIC TERPANE(21/3)	3646390	2132580	3611830
C22 TRICYCLIC TERPANE(22/3)	850432	430137	670563
C23 TRICYC TERPANE(T5:23/3)	3178420	1799210	3144050
C24 TRICYC TERPANE (24/3)	1128070	674910	1125630
C25 TRICYC TERPANE (25/3)	603492	305164	630338
C24 TETRACYC TERP (\$:24/4)	1553560	868442	1464390
C26 TRICYCLIC TERPANE(26/3)	0	0	0
C26 TRICYCLIC TERP 2 (26/3)	0	0	0
C28 TRICYCLIC TERPANE(28/3)	0	0	0
C28 TRICYCLIC TERP 2 (28/3)	0	0	0
C29 TRICYCLIC TERPANE(29/3)	0	0	0
C29 TRICYCLIC TERP 2 (29/3)	0	0	0
C27 18A HOPANE (Ts:27Ts)	748008	303543	594319
C27 17A HOPANE (Tm:27Tm)	6422980	3176760	5975410
C30 TRICYCLIC TERPANE(30/3)	0	0	0
C30 TRICYCLIC TERP 2 (30/3)	0	0	0
25-TRISNORM/z177(25nor28ab)	0	0	0
C28 BISNORHOPANE (X:28ab)	0	0	0
25-NOR m/z177 (Y:25nor30ab)	0	0	0
25-NORHOPANE (Y:25nor30ab)	0	0	0
C29 HOPANE (D:29ab)	21061200	10384300	19161200
C29 18A NORHOPANE (D2:29Ts)	0	0	0
C30 C30 DIAHOPANE (PI:30d)	0	0	0
C29 NORMORETANE (A:29ba)	2737690	1316440	2559000
C30 18A OLEANANE (B:30O)	0	0	0
C30 HOPANE (G:30ab)	34894000	16273700	28426200
NOR-GAMMACERANE? (G2)	0	0	0
C30 MORETANE (K:30ba)	9404870	4640230	8110140
C31 22S HOPANE (N:31abS)	6148180	2913070	4907420
C31 22R HOPANE (O:31abR)	10310700	4858260	8478470
C31 22S M/Z205 (N205)	2096460	1011650	1716870
C31 22R M/Z205 (O205)	1656240	830037	1349180
C30 GAMACERANE (S:30G)	0	0	0
C30 17B 21B HOPANE (P)	1912730	692485	1525740
C32 22S HOPANE (U:32abS)	2988110	1360090	2442620
C32 22R HOPANE (V:32abR)	2003510	945717	1646160
C33 22S HOPANE(Alpha:33abS)	1485450	760797	1439200
C33 22R HOPANE (Beta:33abR)	1139010	605452	1031020
C34 22S HOPANE(Gamma:34abS)	694245	326283	606878
C34 22R HOPANE(Delta:34abR)	736128	335049	624100
C35 22S HOP (Epsilon:35abS)	414518	203615	359662
C35 22R HOPANE (Zeta:35abR)	335543	136995	220891
C21 STERANE	433628	248193	419837
C27 20S DIASTER (10:27dbS)	584486	297971	557659
C27 20R DIASTER (11:27dbR)	362663	203660	353677
C27 20S AAA STER (20:27aaS)	844990	416283	737237
C29 20S DIASTER (21A:29dbS)	463685	245643	400780
C27 20R ISOST218(21B:27bbR)	387652	213846	419986
C27 20S ISOST218 (22:27bbS)	333859	166111	318860
C27 20R ISOSTER 217 (27bbR)	463685	245643	400780
C27 20S ISOSTER 217 (27bbS)	298643	141432	254668
C27 20R AAA STER (25:27aaR)	1471620	790098	1384300
C29 20R DIASTER (27:29dbR)	394294	178348	321462
C28 20R ISOST218(33A:28bbR)	864323	439415	740868
C28 20S ISOST218 (34:28bbS)	776284	377416	653638
C28 20R ISOSTER 217 (28bbR)	1044130	518956	921297
C28 20S ISOSTER 217 (28bbS)	695482	338722	592401
C28 20R AAA STER (36:28aaR)	2769910	1201010	2463430
C29 20S AAA STER (39:29aaS)	1399640	664778	1235210
C29 20R ISOST218 (40:29bbR)	710763	362388	619317
C29 20S ISOST218 (41:29bbS)	756731	351037	651607
C29 20R ISOSTER217 (29bbR)	671166	356510	595736
C29 20S ISOSTER217 (29bbS)	730440	321406	628800
C29 20R AAA STER (42:29aaR)	2294800	1058210	2143000
C30 20R ISOSTER218 (30bbR)	97536	35564	101040
C30 20S ISOSTER218 (30bbS)	0	0	0
C30 4-METHYL STERANE (46)	266763	123318	219299

GC-MS PEAK HEIGHT DATA

PEAK HEIGHTS	MPDMIO00853071.LIS	MPDMIO00853081.LIS	MPDMIO00853091.LIS
	34/11-4T2 4065m \$9907SED008S010\$	34/11-4T2 4089m \$9907SED008S012\$	34/11-4T2 4119m \$9907SED008S014\$
2-ME NAPHTHALENE	4309670	3691130	14936000
1-ME NAPHTHALENE	4186130	3535400	12405600
2-ME BIPHENYL	540285	415049	535969
3-ME BIPHENYL	2140270	1435550	5410420
4-ME BIPHENYL	702027	455089	1653330
PHENANTHRENE	2215690	1897120	9190220
3-ME PHENANTHRENE	864095	674755	3872730
2-ME PHENANTHRENE	750869	618986	3321620
9-ME PHENANTHRENE	3244360	2406300	10537000
1-ME PHENANTHRENE	1502290	1096990	4566830
DIBENZOTHIOPHENE	286203	145505	525772
4-ME DIBENZOTHIOPHENE	464906	390993	1126220
3+2-ME DIBENZOTHIOPHENE	139567	83805	296717
1-ME DIBENZOTHIOPHENE	151987	99888	244192
C21 MA STERANE (F22:A1)	208597	58294	187591
C22 MA STERANE (F23:B1)	171515	77499	148370
C27 20S 5B DM MA-ST(F2:C1)	83419	52338	101554
C27 20S 10B DM MA-DIA (C1)	374472	184197	312040
C27 20R 5B DM MA-ST(F3:D1)	407150	198946	403042
C27 20S 5A DM MA-ST(F4:D1)	101830	52628	94369
C28 20S 5B DM MA-ST(F5:E1)	547195	308533	537814
C27 20S 5A DM MA-DS(:F1)	85755	44634	80718
C27 20R 5A DM MA-ST(F6:G1)+	261289	118107	203591
C28 20S 5A DM MA-ST(F7:G1)	261289	118107	203591
C28 20R 5B DM MA-ST(F8:G1)	449407	252222	553023
C29 20S 5B DM MA-ST(F9:G1)	607759	268014	0
C29 20S 5A DM MA-ST(F10:H1)	155518	82458	142737
C28 20R 5A DM MA-ST(F11:H1)	218898	97168	145633
C29 20R 5B DM MA-ST(F12:H1)	300815	136901	266863
C29 20R 5A DM MA-ST(F13:I1)	166718	68928	148187
C20 ME TA-STER(F14:a1)	600544	249834	815774
C21 ME TA-STER(F15:b1)	548587	212114	615967
C26 20S ME TA-STER(F16:c1)	188394	59995	183994
C26 20R ME TA-STER(F17:d1)+	848374	322677	838837
C27 20S ME TA-STER(F18:d1)	848374	322677	838837
C28 20S ME TA-STER(F19:e1)	642259	255069	614277
C27 20R ME TA-STER(F20:f1)	468558	166550	460633
C28 20R ME TA-STER(F21:g1)	573348	215381	543961
?C21 20S DIASTER	583383	300524	614553
?C21 20R DIASTER	155288	99332	196352
?C21 AAA+ABB	433628	248193	419837
?C22 DIASTER	0	0	0
?C22 AAA+ABB	276357	171091	260469

GC-MS BIOMARKER PARAMETERS

HSRUN	34/11-4T2 3960m	34/11-4T2 3996m	34/11-4T2 4017m	34/11-4T2 4041m	
	MPDMIO0085303	MPDMIO0085304	MPDMIO0085305	MPDMIO0085306	
H1	C32 HOPANES 22S/(22S+22R)	0.62	0.6	0.62	0.59
H2	C31 HOPANES 22S/(22S+22R) M/Z205	0.53	0.55	0.55	0.55
H3	C30: HOPANE/(HOPANE+MORETANE)	0.79	0.79	0.79	0.79
H4	C30: BB HOPANE / C30 HOPANE AS %	4.76	5.35	7.56	3.35
H5_0	C29 HOPANE AS % C30	62.55	60.5	64.24	63.52
H5_1	HOPANE DISTRIBUTION RELATIVE TO C30	100	100	100	100
H5_2	C31 HOPANES AS % OF C30 (205 CORRECTED)	35.61	34.9	32.42	30.16
H5_3	C32 HOPANES	18.12	18.18	15.24	13.83
H5_4	C33 HOPANES	9.67	10.17	7.91	7.4
H5_5	C34 HOPANES	5.6	5.31	4.51	3.79
H5_6	C35 HOPANES	3.53	4.03	2.52	2.32
H6	C27 HOPANES TS/(TS+TM)	0.18	0.27	0.18	0.1
H7	C33 HOPANES 22S/(22S+22R)	0.56	0.55	0.56	0.56
H11	C23 TRICYCLIC/C30 HOPANE AS %	19.35	18.13	12.05	11.13
H12	C24 TETRACYCLIC/C30 HOPANE AS %	6.91	6.62	5.84	5.02
H13	28 30 BISNORHOPANE/HOPANE AS %				
H14	C30 DIAHOPANE PI/HOPANE AS %	2.65	4.99	2.76	
H15	OLEANANE/HOPANE AS %				
H16	GAMMACERANE/HOPANE AS % (205 BACK CALCULATE	9.91	10.82	15.32	14.58
H17	HOPANE INDEX C35/(C35+C34) %	38.66	43.14	35.86	37.94
H18	25-NORHOPANE(Y)/HOPANE AS % G				
H19	C29 18A-NORHOPANE D2/C30 HOPANE AS %				
S1	C29 STERANES 20S/(20S+20R)	0.38	0.39	0.39	0.37
S2	C29 STERANES m/z218 ABB/(ABB+AAA)	0.34	0.32	0.3	0.29
S3_1	STERANE DISTRIBUTION AAA C27 %	32.43	34.24	26.77	26.05
S3_2	C28 %	37.23	35.42	40.01	40.17
S3_3	C29 %	30.33	30.34	33.22	33.78
S4_1	STERANE DISTRIBUTION ABB C27 %	25.18	27.27	24.48	21.15
S4_2	C28 %	39.54	38.68	39.56	41.9
S4_3	C29 %	35.28	34.05	35.97	36.95
S5	BA DIASTERANES/(BA DIASTERANES+AAA+ABB STERAN	26.58	30.51	29.26	23.32
S7	STERANE INDEX C27/(C27+C29) % FROM S3	51.67	53.02	44.63	43.55
S8	C30 4-ME STERANE AS % OF C29 20R AAA	10.66	8.2	11.92	11.02
M4	C30 C27 TO C35 HOPANES/(SAME+C27 TO C29 STERANE	69.58	55.73	78.98	80.49
PR/PH	PRISTANE/PHYTANE RATIO ESTIMATE				
M2	PHENANTHRENES (3ME+2ME) / (9ME+1ME)	0.39	0.32	0.35	0.43
M3	MPI1 PHENANTHRENES (3ME+2ME) / (9ME+1ME+PHEN) *	0.4	0.39	0.43	0.47
A1	ARO STERANES: C28 20R TRI/(SAME+C29 20R 5A&B MON	0.47	0.44	0.57	0.48
A2	ARO STERANES: SUM TRI/(SAME+SUM MONO)(F9&F12spl	0.49	0.57	0.64	0.43
A3	TRI ARO STERANES: C20/(C20+C28 20R)	0.64	0.78	0.79	0.56
A4	TRI ARO STERANES: (C20+C21)/(SAME+SUM C26 TO C28)	0.4	0.57	0.57	0.32
A5	TRI ARO STERANES: C26 20S / C28 20S	0.39	0.46	0.34	0.31
A6	TRI ARO STERANES: C27 20R / C28 20R	0.92	0.82	0.9	0.81
MDR	4-ME DIBENZOTHIOPHENE / 1-ME DIBENZOTHIOPHENE	2.82	5.65	5.69	3.48
MBP	3-METHYLBIPHENYL / 2-METHYLBIPHENYL	1.42	3.57	5.42	3.05
MNR	2-ME NAPHTHALENE/1-ME NAPHTHALENE	0.96	0.85	1.02	1.02
SMN	(2-ME NAPHTH+1-ME NAPHTH)/C23 TRICYCLIC				
DBTP	DIBENZOTHIOPHENE(MZ184)/PHENANTHRENE(MZ178	0.09	0.07	0.06	0.08
T19	C19 TRICYCLIC/C23 TRICYCLIC %	15.12	35.41	51.62	12.66
T20	C20 TRICYCLIC/C23 TRICYCLIC %	64.02	65.96	98.37	94.91
T21	C21 TRICYCLIC/C23 TRICYCLIC %	93.49	99.97	111.49	110.26
T22	C22 TRICYCLIC/C23 TRICYCLIC %	30.03	27.55	28.27	25.45
T23	C23 TRICYCLIC/C23 TRICYCLIC %	100	100	100	100
T24	C24 TRICYCLIC/C23 TRICYCLIC %	36.49	34.16	36.2	36.23
T25	C25 TRICYCLIC/C23 TRICYCLIC %	15.47	16.48	20.66	16.54
T26	C26 TRICYCLIC/C23 TRICYCLIC %	23.08	25.36		
T28	C28 TRICYCLIC/C23 TRICYCLIC %				
T29	C29 TRICYCLIC/C23 TRICYCLIC %				
T30	C30 TRICYCLIC/C23 TRICYCLIC %				
19/23	C19 TRICYCLIC/C23 TRICYCLIC AS %	15.12	35.41	51.62	12.66
20/21	C20 TRICYCLIC/C21 TRICYCLIC AS %	68.48	65.98	88.23	86.08
22/21	C22 TRICYCLIC/C21 TRICYCLIC AS %	32.12	27.56	25.36	23.08
24/23	C24 TRICYCLIC/C23 TRICYCLIC AS %	36.49	34.16	36.2	36.23
26/25	C26 TRICYCLIC/C25 TRICYCLIC AS %	149.17	153.9		
244_24	C24 TETRACYCLIC/C24 TRICYCLIC AS %	97.87	106.89	133.96	124.51
TET_23	C24 TETRACYCLIC/C23 TRICYCLIC AS %	35.71	36.52	48.5	45.11

GC-MS BIOMARKER PARAMETERS

HSRUN	34/11-4T2 4065m	34/11-4T2 4089m	34/11-4T2 4119m	
	MPDMIO0085307	MPDMIO0085308	MPDMIO0085309	
H1	C32 HOPANES 22S/(22S+22R)	0.6	0.59	0.6
H2	C31 HOPANES 22S/(22S+22R) M/Z205	0.56	0.55	0.56
H3	C30: HOPANE/(HOPANE+MORETANE)	0.79	0.78	0.78
H4	C30: BB HOPANE / C30 HOPANE AS %	5.48	4.26	5.37
H5_0	C29 HOPANE AS % C30	60.36	63.81	67.41
H5_1	HOPANE DISTRIBUTION RELATIVE TO C30	100	100	100
H5_2	C31 HOPANES AS % OF C30 (205 CORRECTED)	31.54	32.59	30.83
H5_3	C32 HOPANES	14.31	14.17	14.38
H5_4	C33 HOPANES	7.52	8.4	8.69
H5_5	C34 HOPANES	4.1	4.06	4.33
H5_6	C35 HOPANES	2.15	2.09	2.04
H6	C27 HOPANES TS/(TS+TM)	0.1	0.09	0.09
H7	C33 HOPANES 22S/(22S+22R)	0.57	0.56	0.58
H11	C23 TRICYCLIC/C30 HOPANE AS %	9.11	11.06	11.06
H12	C24 TETRACYCLIC/C30 HOPANE AS %	4.45	5.34	5.15
H13	28 30 BISNORHOPANE/HOPANE AS %			
H14	C30 DIAHOPANE PI/HOPANE AS %			
H15	OLEANANE/HOPANE AS %			
H16	GAMMACERANE/HOPANE AS % (205 BACK CALCULATE	15.63	15.17	16.26
H17	HOPANE INDEX C35/(C35+C34) %	34.4	33.99	32.05
H18	25-NORHOPANE(Y)/HOPANE AS % G			
H19	C29 18A-NORHOPANE D2/C30 HOPANE AS %			
S1	C29 STERANES 20S/(20S+20R)	0.38	0.39	0.37
S2	C29 STERANES m/z218 ABB/(ABB+AAA)	0.28	0.29	0.27
S3_1	STERANE DISTRIBUTION AAA C27 %	22.51	25.91	23.11
S3_2	C28 %	42.38	39.39	41.12
S3_3	C29 %	35.11	34.7	35.77
S4_1	STERANE DISTRIBUTION ABB C27 %	18.84	19.89	21.7
S4_2	C28 %	42.84	42.76	40.96
S4_3	C29 %	38.32	37.35	37.33
S5	BA DIASTERANES/(BA DIASTERANES+AAA+ABB STERAN	22.25	21.62	23.28
S7	STERANE INDEX C27/(C27+C29) % FROM S3	39.07	42.75	39.25
S8	C30 4-ME STERANE AS % OF C29 20R AAA	11.62	11.65	10.23
M4	SUM C27 TO C35 HOPANES/(SAME+C27 TO C29 STERANE	82.56	82.29	81.84
PR/PH	PRISTANE/PHYTANE RATIO ESTIMATE			
M2	PHENANTHRENES (3ME+2ME) / (9ME+1ME)	0.38	0.42	0.54
M3	MPI1 PHENANTHRENES (3ME+2ME) / (9ME+1ME+PHEN) *	0.44	0.45	0.57
A1	ARO STERANES: C28 20R TRI/(SAME+C29 20R 5A&B MON	0.51	0.46	0.56
A2	ARO STERANES: SUM TRI/(SAME+SUM MONO)(F9&F12spl	0.49	0.43	0.56
A3	TRI ARO STERANES: C20/(C20+C28 20R)	0.51	0.54	0.6
A4	TRI ARO STERANES: (C20+C21)/(SAME+SUM C26 TO C28)	0.3	0.31	0.35
A5	TRI ARO STERANES: C26 20S / C28 20S	0.29	0.24	0.3
A6	TRI ARO STERANES: C27 20R / C28 20R	0.82	0.77	0.85
MDR	4-ME DIBENZOTHIOPHENE / 1-ME DIBENZOTHIOPHENE	3.06	3.91	4.61
MBP	3-METHYLBIPHENYL / 2-METHYLBIPHENYL	3.96	3.46	10.09
MNR	2-ME NAPHTHALENE/1-ME NAPHTHALENE	1.03	1.04	1.2
SMN	(2-ME NAPHTH+1-ME NAPHTH)/C23 TRICYCLIC			
DBTP	DIBENZOTHIOPHENE(MZ184)/PHENANTHRENE(MZ178	0.13	0.08	0.06
T19	C19 TRICYCLIC/C23 TRICYCLIC %	49.1	48.39	40.92
T20	C20 TRICYCLIC/C23 TRICYCLIC %	103.51	110.05	96.88
T21	C21 TRICYCLIC/C23 TRICYCLIC %	114.72	118.53	114.88
T22	C22 TRICYCLIC/C23 TRICYCLIC %	26.76	23.91	21.33
T23	C23 TRICYCLIC/C23 TRICYCLIC %	100	100	100
T24	C24 TRICYCLIC/C23 TRICYCLIC %	35.49	37.51	35.8
T25	C25 TRICYCLIC/C23 TRICYCLIC %	18.99	16.96	20.05
T26	C26 TRICYCLICS/C23 TRICYCLIC %			
T28	C28 TRICYCLICS/C23 TRICYCLIC %			
T29	C29 TRICYCLICS/C23 TRICYCLIC %			
T30	C30 TRICYCLICS/C23 TRICYCLIC %			
19/23	C19 TRICYCLIC/C23 TRICYCLIC AS %	49.1	48.39	40.92
20/21	C20 TRICYCLIC/C21 TRICYCLIC AS %	90.22	92.85	84.33
22/21	C22 TRICYCLIC/C21 TRICYCLIC AS %	23.32	20.17	18.57
24/23	C24 TRICYCLIC/C23 TRICYCLIC AS %	35.49	37.51	35.8
26/25	C26 TRICYCLICS/C25 TRICYCLIC AS %			
244_24	C24 TETRACYCLIC/C24 TRICYCLIC AS %	137.72	128.68	130.1
TET_23	C24 TETRACYCLIC/C23 TRICYCLIC AS %	48.88	48.27	46.58

APPENDIX - C
CORE EXTRACTS DATA

BULK COMPOSITION OF EXTRACTS
34/11-4T2 Cores Extracts

Sample code	Depth (m)	Rock (g)	Wt Ext (g)	EOM (mg)	%TSE	Saturates	Aromatics	Residue	Asph	HC	NonHC
9906SED008S002	4152.7	4.608	0.16187	161.87	3.513	98.1	0.3	1.4	0.19	98.4	1.4
9906SED008S004	4157.95	5.469	0.16816	168.16	3.075	98.7	0.3	0.8	0.19	99.0	0.8
9906SED008S007	4165.85	6.567	0.08006	80.06	1.219	98.2	0.5	1.3	0.01	98.7	1.3
9906SED008S011	4176.85	9.422	0.16804	168.04	1.783	94.8	1.7	2.6	0.88	96.6	2.6
9906SED008S016	4195.15	6.116	0.17079	170.79	2.793	94.8	2.9	1.8	0.45	97.8	1.8
9906SED008S017	4196.15	6.498	0.18503	185.03	2.847	97.85	0.8	1.01	0.34	98.7	1.0
9906SED008S019	4198.2	7.442	0.19315	193.15	2.595	98.97	0.29	0.5	0.24	99.3	0.5

EXTRACTION DATA 1
34/11-4T2 Core Extracts

Sample code	Depth (m)	Rock (g)	EOM (mg)	EOM (mg/Kg rock)	Sat/EOM %	Aro/EOM %	Pol/EOM %	Asph/EOM %	HC/EOM %	NON HC/EOM %
9906SED008S002	4152.7	4.608	161.87	35128	98.1	0.3	1.4	0.19	98.4	1.4
9906SED008S004	4157.95	5.469	168.16	30748	98.7	0.3	0.8	0.19	99.0	0.8
9906SED008S007	4165.85	6.567	80.06	12191	98.2	0.5	1.3	0.01	98.7	1.3
9906SED008S011	4176.85	9.422	168.04	17835	94.8	1.7	2.6	0.88	96.6	2.6
9906SED008S016	4195.15	6.116	170.79	27925	94.8	2.9	1.8	0.45	97.8	1.8
9906SED008S017	4196.15	6.498	185.03	28475	97.85	0.8	1.01	0.34	98.7	1.0
9906SED008S019	4198.2	7.442	193.15	25954	98.97	0.29	0.5	0.24	99.3	0.5

EXTRACTION DATA 2
34/11-4T2 Core Extracts

nd= not determined

Sample code	Depth (m)	TOC %	EOM/TOC (mg/g TOC)	Sat (mg/g TOC)	Aro (mg/g TOC)	Pol (mg/g TOC)	Asph (mg/g TOC)	100*Sat/Aro %	100*HC/NON HC %
9906SED008S002	4152.7	nd	nd	nd	nd	nd	nd	32700	7029
9906SED008S004	4157.95	nd	nd	nd	nd	nd	nd	32900	12375
9906SED008S007	4165.85	nd	nd	nd	nd	nd	nd	19640	7592
9906SED008S011	4176.85	nd	nd	nd	nd	nd	nd	5576	3715
9906SED008S016	4195.15	nd	nd	nd	nd	nd	nd	3269	5433
9906SED008S017	4196.15	nd	nd	nd	nd	nd	nd	12231	9870
9906SED008S019	4198.2	nd	nd	nd	nd	nd	nd	34128	19860

SATURATE GC

34/11-4T2 Core Extracts	9906SED008S002	9906SED008S004	9906SED008S007
Depth (m)	4152.7m	4157.95m	4165.85m
Saturates Fraction GC Analysis	Area	Area	Area
Component	[$\mu\text{V}\cdot\text{s}$]	[$\mu\text{V}\cdot\text{s}$]	[$\mu\text{V}\cdot\text{s}$]
N-C12	52197.8	26255	72793.2
N-C13	191988.27	114179.84	222950.87
N-C14	1631639.52	1163805.11	1652875.58
N-C15	1111935.06	804681.41	1063889.09
N-C16	1221341.46	1009447.21	1249687.54
N-C17	824384.09	586868.71	718012.24
PRISTANE	318146.05	135147.29	167719.96
N-C18	512818.16	387076.35	512404.43
PHYTANE	173247.55	121728.66	163417.79
N-C19	298905	248980.56	299757.9
N-C20	193334.1	143273.2	207451.2
N-C21	125478.2	94967.6	133855.8
N-C22	82524.6	63066	108960.7
N-C23	52637.8	36908.6	66278.6
N-C24	34550.2	21757.7	47616
N-C25	21817.1	12594.2	35046
N-C26	16055.2	6967.06	28092
N-C27	12231.7	6555	21519.2
N-C28	9902.4	4378.89	17319.5
N-C29	9225.6	4751.2	15971.8
N-C30	6272.2	2520.06	10432.2
N-C31	5040.4	2493.3	9901.1
N-C32	3646.6	1695.65	7618.4
N-C33	4501.16	2410.4	7236.9
N-C34	1697.54	919.49	3161.98
N-C35	1639.56	669.44	2698
N-C36	1086.56	583	2424.85
TOTAL	6918243.88	5004680.93	6849092.83
Batch Code	9906SED008S002	9906SED008S004	9906SED008S007
CPI (24 to 32)	1.04	1.22	1.05
Pr/Ph Ratio	1.84	1.11	1.03
Pr/n-C17	0.39	0.23	0.23
Ph/n-C18	0.34	0.31	0.32
Alkane Index (C17/(C17+C27))%	98.54	98.90	97.09
R22 Index $2\cdot\text{C}22/(\text{C}21+\text{C}23)$	0.93	0.96	1.09
(Pr/n-C17)/(Ph/n-C18)	1.14	0.73	0.73

Note: -1 denotes not calculated

SATURATE GC

34/11-4T2 Core Extracts	9906SED008S011	9906SED008S016	9906SED008S017	9906SED008S019
Depth (m)	4176.85m	4195.15m	4196.15m	4198.2m
Saturates Fraction GC Analysis	Area	Area	Area	Area
Component	[μ V·s]	[μ V·s]	[μ V·s]	[μ V·s]
N-C12	20758.6	11238.4	22231.6	22706.8
N-C13	89381.29	85235.45	85605.94	112784.57
N-C14	1061541.43	1112797.8	928226.14	1183230.96
N-C15	589898.04	903557.24	538877.07	901775.12
N-C16	755977.37	892288.7	534579.4	1162312.82
N-C17	442095.57	642604.6	354321.3	723340.83
PRISTANE	101417.73	141836.2	77920.7	156299.17
N-C18	333380.82	455195.41	221012.9	522038.47
PHYTANE	129489.91	149276.52	27196.3	175664.03
N-C19	175086.8	253407.9	145300.56	297448.6
N-C20	103863	164384.43	81681.2	193538.51
N-C21	66555.6	102594.5	52268.6	122109.6
N-C22	40486.9	66328	33029.8	82632.3
N-C23	22425.6	39499.6	18536.6	52618.8
N-C24	10944.5	24323.5	9498.3	33564.7
N-C25	5233.4	14452	5163.5	21182
N-C26	2139.86	9906.8	2250.08	14542.1
N-C27	1387.16	7450.6	1795.58	11416.8
N-C28	1060.61	5707.62	1398.52	9071.9
N-C29	1323.6	5969.8	1552.6	8586.5
N-C30	535.46	3224.47	696.14	5290.6
N-C31	0	3273.55	717.86	4941.4
N-C32	0	2550.66	485.2	3406.6
N-C33	0	3043.26	828.01	3934.18
N-C34	0	1296.5	236.42	1765.19
N-C35	0	991.95	288.6	1206.9
N-C36	0	807.51	165.76	1138.8
TOTAL	3512887.67	5103242.96	3145864.7	5828548.25
Batch Code	9906SED008S011	9906SED008S016	9906SED008S017	9906SED008S019
CPI (24 to 32)	1.33	1.09	1.29	1.08
Pr/Ph Ratio	0.78	0.95	2.87	0.89
Pr/n-C17	0.23	0.22	0.22	0.22
Ph/n-C18	0.39	0.33	0.12	0.34
Alkane Index (C17/(C17+C27))%	99.69	98.85	99.50	98.45
R22 Index 2*C22/(C21+C23)	0.91	0.93	0.93	0.95
(Pr/n-C17)/(Ph/n-C18)	0.59	0.67	1.79	0.64

Note: -1 denotes not calculated

Software Version: 4.1<OG07>
Sample Name: 9906SED008S002 34/11-4T2 4152.7m
Instrument: SAC_GC
Raw Data File: C:_DATA\B9906008\ARO002.RAW
Sequence File: C:_DATA\B9906008\ARO_GC.SEQ

Aromatics GC Component Name	Time [min]	Area [μ V·s]	Area [%]
	8.421	41621.8	1.41
	8.906	6843.4	0.23
1-ME NAPTHALENE	9.281	54968.1	1.87
2-ME NAPTHALENE	9.504	27752.8	0.94
	9.705	17397.2	0.59
	10.455	36288.29	1.23
	10.559	19414.01	0.66
	10.625	25702.7	0.87
	10.724	16332.8	0.56
2,6+2,7-DIMETHYLNAPT	10.894	102145.3	3.47
	10.999	345752.9	11.75
1,3+1,7-DIMETHYLNAPT	11.082	41773.71	1.42
1,6-DIMETHYLNAPTHALE	11.131	73051.28	2.48
	11.295	16468.65	0.56
1,5+1,5+2,3-DIMETHYL	11.364	24460.25	0.83
1,2-DIMETHYLNAPTHALE	11.542	5983.8	0.2
	11.806	21563.73	0.73
	11.858	14715.22	0.5
	11.927	52258.65	1.78
	12.004	31414.2	1.07
	12.252	14580	0.5
	12.473	50941.13	1.73
	12.535	19877.32	0.68
	12.606	29260.15	0.99
	12.791	16862.82	0.57
	12.852	16292.98	0.55
	13.022	21620.28	0.73
	13.112	44598.45	1.52
	13.17	55359.37	1.88
	13.296	60249.82	2.05
	13.432	30821.57	1.05
	13.513	89566.1	3.04
	13.624	195434.9	6.64
	13.744	65148.41	2.21
	14.305	20481.75	0.7
	14.384	25604.05	0.87
	14.463	23435	0.8
	14.612	29623.66	1.01
	14.691	30189.94	1.03
	14.819	31893.27	1.08
	14.941	50130.43	1.7
	15.055	35406.69	1.2
	15.358	7526.91	0.26
PHENANTHRENE	15.498	62030.2	2.11
	15.615	12842.29	0.44
	15.762	9162.31	0.31
	15.821	12150.03	0.41
	15.978	15532.66	0.53
	16.08	49882.6	1.7
	16.387	58912.1	2
3-ME PHENANTHRENE	16.804	34832.25	1.18

2-ME PHENANTHRENE	16.859	29980.95	1.02
	16.981	11689.5	0.4
9-ME PHENANTHRENE	17.056	17254.15	0.59
1-ME PHENANTHRENE	17.108	11911.05	0.4
	17.168	18008.7	0.61
	17.372	89172.2	3.03
	17.56	13177	0.45
	17.724	14812.2	0.5
	17.968	39175.4	1.33
	18.092	11977.6	0.41
	18.205	19630.33	0.67
	18.28	17799.67	0.6
	18.7	13484.1	0.46
	18.797	15468.72	0.53
	18.863	14917.08	0.51
	19	30014.05	1.02
	19.091	21660.24	0.74
	19.19	13162	0.45
	19.487	4574.9	0.16
	19.655	14582.5	0.5
	19.933	16481.6	0.56
	20.137	12424.4	0.42
	20.494	13850.5	0.47
	20.844	17736.33	0.6
	20.955	13408.27	0.46
	21.051	11385.8	0.39
	21.676	6303.6	0.21
	21.919	5705.1	0.19
	22.847	36855.8	1.25
	23.162	10757.6	0.37
	24.077	42161.4	1.43
	25.228	85612	2.91
	28.178	17258	0.59
	28.911	33611	1.14
	33.84	46.7	0
		2942209	100

Software Version: 4.1<OG07>
 Sample Name: 9906SED008S004 34/11-4T2 4157.95m
 Instrument: SAC_GC
 Raw Data File: C:_DATA\B9906008\ARO004.RAW
 Sequence File: C:_DATA\B9906008\ARO_GC.SEQ

Aromatics GC

Component Name	Time [min]	Area [μ V·s]	Area [%]
	8.435	25587.8	1.88
1-ME NAPHTHALENE	9.291	25609	1.88
2-ME NAPHTHALENE	9.516	13515.7	0.99
	9.714	7449.6	0.55
	10.465	21655.4	1.59
	10.635	7444.6	0.55
2,6+2,7-DIMETHYLNAPT	10.893	33353.68	2.45
	10.996	215881.6	15.83
1,3+1,7-DIMETHYLNAPT	11.086	22482.39	1.65
1,6-DIMETHYLNAPTHALE	11.136	51721.61	3.79
1,5+1,5+2,3-DIMETHYL	11.299	9780.22	0.72
	11.369	13734.28	1.01
1,2-DIMETHYLNAPTHALE	11.538	5411.2	0.4
	11.804	13592.5	1
	11.86	8243.48	0.6
	11.931	30064.36	2.2
	12.006	17513.66	1.28
	12.259	19925.61	1.46
	12.413	11426.14	0.84
	12.481	55192.06	4.05
	12.543	61589.97	4.52
	12.609	15308.82	1.12
	12.792	9381	0.69
	12.861	106692.4	7.82
	12.967	10532	0.77
	13.111	15107.4	1.11
	13.297	10502.2	0.77
	13.463	9097.9	0.67
	13.619	115578.1	8.47
	13.741	33238.67	2.44
	14.303	11931.89	0.87
	14.381	12563.11	0.92
	14.459	6742.2	0.49
	14.609	12271.8	0.9
	14.687	14978.8	1.1
	14.942	42508.1	3.12
	15.014	16722.8	1.23
	15.317	27156.8	1.99
PHENANTHRENE	15.493	26819.6	1.97
	15.973	7823	0.57
	16.076	28564.8	2.09
3-ME PHENANTHRENE	16.799	12824.92	0.94
2-ME PHENANTHRENE	16.853	12643.28	0.93
9-ME PHENANTHRENE	17.052	7795.6	0.57
1-ME PHENANTHRENE	17.103	5592.4	0.41
	17.357	22400.6	1.64
	17.962	18566.2	1.36
	18.197	7076	0.52
	19.182	4327.6	0.32
	20.489	6316	0.46
	22.674	6064.1	0.44
	22.837	31077.4	2.28
	24.067	11280.8	0.83
	28.897	13149.8	0.96
	33.824	99.97	0.01
		1363911	100

Software Version: 4.1<OG07>
 Sample Name: 9906SED008S007 34/11-4T2 4165.85m
 Instrument: SAC_GC
 Raw Data File: C:_DATA\B9906008\ARO007.RAW
 Sequence File: C:_DATA\B9906008\ARO_GC.SEQ

Aromatics GC

Component Name	Time [min]	Area [μ V·s]	Area [%]
	7.599	14693.6	0.38
	7.784	10070.5	0.26
	8.437	44365.6	1.15
	8.922	12795.2	0.33
1-ME NAPTHALENE	9.299	108874	2.82
2-ME NAPTHALENE	9.52	49758.1	1.29
	9.756	24432.8	0.63
	10.113	17028.6	0.44
	10.23	5722.07	0.15
	10.294	9912.73	0.26
	10.469	59249.34	1.54
	10.572	9760.06	0.25
	10.739	42205.4	1.09
2,6+2,7-DIMETHYLNAPT	10.918	116267.5	3.01
	11.011	387127.7	10.03
1,3+1,7-DIMETHYLNAPT	11.098	83374.4	2.16
1,6-DIMETHYLNAPTHALE	11.144	127734.8	3.31
	11.304	22581.7	0.59
1,5+1,5+2,3-DIMETHYL	11.371	41163.3	1.07
1,2-DIMETHYLNAPTHALE	11.548	6534.4	0.17
	11.7	14106.8	0.37
	11.823	19028.04	0.49
	11.941	112858.4	2.93
	12.053	51270.76	1.33
	12.264	24698.5	0.64
	12.421	16795.62	0.44
	12.49	82774.91	2.15
	12.554	112697.7	2.92
	12.618	49911.32	1.29
	12.804	36029.22	0.93
	12.87	148525.3	3.85
	12.977	23592.63	0.61
	13.033	25610.1	0.66
	13.12	35025.42	0.91
	13.185	37838.9	0.98
	13.234	28170.18	0.73
	13.31	72263.07	1.87
	13.447	33596.6	0.87
	13.631	175140.3	4.54
	13.75	46958.2	1.22
	13.864	18406.8	0.48
	14.313	18519.6	0.48
	14.471	27217.23	0.71
	14.543	30876.96	0.8
	14.624	43187.93	1.12
	14.702	58950.79	1.53
	14.823	16765	0.43
	14.951	70779.85	1.83
	15.027	50382.45	1.31
	15.224	13388.01	0.35
	15.327	36279.39	0.94

PHENANTHRENE	15.507	80545.8	2.09
	15.986	29454.78	0.76
	16.082	54524.06	1.41
	16.125	36226.84	0.94
	16.272	16098.38	0.42
	16.388	50664.33	1.31
3-ME PHENANTHRENE	16.814	51857.53	1.34
2-ME PHENANTHRENE	16.869	49174.27	1.27
9-ME PHENANTHRENE	17.064	37189.39	0.96
1-ME PHENANTHRENE	17.116	27737.7	0.72
	17.169	17869.91	0.46
	17.371	74977.6	1.94
	17.565	24466.88	0.63
	17.726	17693.92	0.46
	17.97	47432	1.23
	18.097	30073.73	0.78
	18.207	24620.82	0.64
	18.286	48130.85	1.25
	18.347	41612	1.08
	18.472	19741.2	0.51
	18.702	19507.4	0.51
	18.798	15602	0.4
	19	14731.26	0.38
	19.092	19788.14	0.51
	19.189	11887.2	0.31
	19.403	14605.37	0.38
	19.491	12300.03	0.32
	19.655	13816.6	0.36
	19.881	4979.8	0.13
	20.133	12105	0.31
	20.495	12031.4	0.31
	20.837	18448.39	0.48
	20.952	12270.21	0.32
	21.066	10337	0.27
	21.675	9482.3	0.25
	22.139	13202.3	0.34
	22.679	9934.2	0.26
	22.841	26709.2	0.69
	23.161	21347.2	0.55
	24.072	24206.4	0.63
	24.282	5977.4	0.15
	25.215	10976	0.28
	28.171	13468.4	0.35
	28.903	24904.1	0.65
	33.843	12.2	3.00E-04
		3858019	100

Software Version: 4.1<OG07>
 Sample Name: 9906SED008S011 34/11-4T2 4176.85m
 Instrument: SAC_GC
 Raw Data File: C:_DATA\B9906008\ARO011.RAW
 Sequence File: C:_DATA\B9906008\ARO_GC.SEQ

Aromatics GC			
Component Name	Time [min]	Area [μ V·s]	Area [%]
1-ME NAPHTHALENE	9.299	1727	0.18
2-ME NAPHTHALENE	9.52	834.66	0.09
	10.891	2886.24	0.29
2,6+2,7-DIMETHYLNAPT	10.98	13889.2	1.42
1,3+1,7-DIMETHYLNAPT	11.085	2674.35	0.27
1,6-DIMETHYLNAPTHALE	11.131	2130.45	0.22
1,5+1,5+2,3-DIMETHYL	11.394	1894.2	0.19
1,2-DIMETHYLNAPTHALE	11.539	803.2	0.08
	11.927	8935.2	0.91
	12.851	8216.2	0.84
	13.171	15513.6	1.58
	13.61	43555.66	4.45
	13.738	12838.94	1.31
	14.384	5615.76	0.57
	14.458	5679.44	0.58
	14.61	17121.39	1.75
	14.685	13136.21	1.34
	14.815	9182.8	0.94
	14.935	12749	1.3
PHENANTHRENE	15.5	109745.4	11.21
	15.614	17868.6	1.82
	16.074	16773.8	1.71
	16.34	15591.4	1.59
3-ME PHENANTHRENE	16.801	28506.75	2.91
2-ME PHENANTHRENE	16.854	31071.25	3.17
9-ME PHENANTHRENE	17.049	15791.16	1.61
1-ME PHENANTHRENE	17.101	18888.64	1.93
	17.358	23047.1	2.35
	17.554	28830.6	2.94
	17.963	20851	2.13
	18.199	7261.87	0.74
	18.274	14944.33	1.53
	18.491	36642.26	3.74
	18.702	15985.87	1.63
	18.797	19090.87	1.95
	18.94	11257.84	1.15
	19.001	75379.72	7.7
	19.083	10485.24	1.07
	19.719	9618.8	0.98
	19.939	27824.3	2.84
	20.116	11707.5	1.2
	20.191	12840	1.31
	20.411	15701.09	1.6
	20.479	18177.21	1.86
	20.835	6711.2	0.69
	21.544	5368.8	0.55
	22.062	15346.48	1.57
	22.135	21323.32	2.18
	22.834	13120.6	1.34
	23.155	15108.4	1.54
	24.068	16015	1.64
	24.637	14385.4	1.47
	25.179	28830.39	2.94
	25.277	15260.61	1.56
	27.557	8215.8	0.84
	28.034	12113.8	1.24
	28.897	14094.2	1.44
	33.764	74.67	0.01
		979234.8	100

Software Version: 4.1<OG07>
 Sample Name: 9906SED008S016 34/11-4T2 4195.15m
 Instrument: SAC_GC
 Raw Data File: C:_DATA\B9906008\ARO016.RAW
 Sequence File: C:_DATA\B9906008\ARO_GC.SEQ

Aromatics GC

Component Name	Time [min]	Area [μ V·s]	Area [%]
1-ME NAPTHALENE	9.294	6116.07	4.47
2-ME NAPTHALENE	9.518	4502.86	3.29
	10.893	3636.85	2.66
2,6+2,7-DIMETHYLNAPT	10.981	15279	11.16
1,3+1,7-DIMETHYLNAPT	11.084	2497.42	1.82
1,6-DIMETHYLNAPTHALE	11.132	1846.08	1.35
1,5+1,5+2,3-DIMETHYL	11.401	657.2	0.48
1,2-DIMETHYLNAPTHALE	11.543	806.1	0.59
	13.17	5537.1	4.04
	13.605	13194.5	9.63
PHENANTHRENE	15.488	28314	20.68
3-ME PHENANTHRENE	16.794	6135.3	4.48
2-ME PHENANTHRENE	16.847	6775.73	4.95
9-ME PHENANTHRENE	17.044	2422.5	1.77
1-ME PHENANTHRENE	17.097	3610.6	2.64
	18.483	10412.4	7.6
	18.987	25185.2	18.39
	33.77	17.13	0.01
		136946.1	100

Software Version: 4.1<OG07>
 Sample Name: 9906SED008S017 34/11-4T2 4196.15nTime:
 Instrument: SAC_GC Channel:
 Raw Data File: C:_DATA\B9906008\VARO017.RAW
 Sequence File: C:_DATA\B9906008\VARO_GC.SEQ

Aromatics GC			
Component Name	Time [min]	Area [μ V·s]	Area [%]
	7.594	17876	1.35
1-ME NAPHTHALENE	9.293	42369.3	3.19
2-ME NAPHTHALENE	9.517	31552.4	2.38
	10.465	34520	2.6
	10.731	17818.7	1.34
	10.894	26969.4	2.03
2,6+2,7-DIMETHYLNAPT	10.99	111922.1	8.43
1,3+1,7-DIMETHYLNAPT	11.085	11903.35	0.9
1,6-DIMETHYLNAPHTHALE	11.134	10233.86	0.77
1,5+1,5+2,3-DIMETHYL	11.4	4944.2	0.37
1,2-DIMETHYLNAPHTHALE	11.543	4644.8	0.35
	11.929	31006.8	2.34
	12.044	12939.4	0.97
	12.471	20141.81	1.52
	12.608	5822.79	0.44
	13.174	29493.6	2.22
	13.295	8768.4	0.66
	13.612	58020.4	4.37
	13.739	13769	1.04
	14.302	6191.49	0.47
	14.381	6957.91	0.52
	14.608	16857.36	1.27
	14.685	12030.44	0.91
	14.816	9475	0.71
	14.935	13981	1.05
PHENANTHRENE	15.501	115467.8	8.7
	15.613	19939.2	1.5
	16.074	14723.9	1.11
	16.34	8463.6	0.64
3-ME PHENANTHRENE	16.8	25613.52	1.93
2-ME PHENANTHRENE	16.852	25903.98	1.95
9-ME PHENANTHRENE	17.048	14256.16	1.07
1-ME PHENANTHRENE	17.101	15665.64	1.18
	17.354	8742.4	0.66
	17.553	27066.6	2.04
	17.963	16418.4	1.24
	18.196	6757.3	0.51
	18.491	41266	3.11
	18.707	15625.13	1.18
	18.796	16807.27	1.27
	19.002	91383.3	6.88
	19.081	13121.1	0.99
	19.72	8885.2	0.67
	19.94	25421.2	1.91
	20.115	11519.7	0.87
	20.191	11688.2	0.88
	20.409	14627.33	1.1
	20.478	16726.47	1.26
	21.543	5616.6	0.42
	22.062	15608.56	1.18
	22.134	20118.24	1.52
	22.839	46837	3.53
	23.156	8595.2	0.65
	24.065	13772.6	1.04
	24.634	14153	1.07
	25.18	23753.27	1.79
	25.277	15879.13	1.2
	27.556	9537.7	0.72
	28.034	14157.2	1.07
	28.895	13460.2	1.01
	33.767	10.17	8.00E-04
		1327797.8	100

Software Version: 4.1<OG07>
 Sample Name: 9906SED008S019 34/11-4T2 4198.2m
 Instrument: SAC_GC
 Raw Data File: C:_DATA\B9906008\ARO019.RAW
 Sequence File: C:_DATA\B9906008\ARO_GC.SEQ

Aromatics GC

Component Name	Time [min]	Area [μ V·s]	Area [%]
	7.596	21451.4	0.8
	8.436	38845.2	1.45
	8.921	11404.6	0.43
1-ME NAPTHALENE	9.295	82534.4	3.08
2-ME NAPTHALENE	9.519	42546.2	1.59
	9.717	4211.4	0.16
	10.291	16883.7	0.63
	10.467	44562.79	1.67
	10.569	20415.59	0.76
	10.635	24232.63	0.91
	10.734	30551.9	1.14
2,6+2,7-DIMETHYLNAPT	10.902	112504.6	4.2
	11.007	326878.7	12.22
1,3+1,7-DIMETHYLNAPT	11.093	50863.39	1.9
1,6-DIMETHYLNAPTHALE	11.14	89751.8	3.35
	11.303	28061.34	1.05
1,5+1,5+2,3-DIMETHYL	11.37	28605.66	1.07
	11.467	7796.58	0.29
1,2-DIMETHYLNAPTHALE	11.551	7101.4	0.27
	11.769	4919.4	0.18
	11.864	10819.19	0.4
	11.934	45048.71	1.68
	12.011	8618.8	0.32
	12.1	8653.4	0.32
	12.259	17859.9	0.67
	12.477	46792.53	1.75
	12.542	19803.98	0.74
	12.612	26727.29	1
	12.798	15193.8	0.57
	12.857	15809.6	0.59
	13.025	20457.9	0.76
	13.114	35342.83	1.32
	13.179	54512.54	2.04
	13.3	50835.81	1.9
	13.434	37601.75	1.41
	13.533	25385.36	0.95
	13.626	162911.9	6.09
	13.746	55887.78	2.09
	14.307	18275.29	0.68
	14.386	19589.31	0.73
	14.463	10626.75	0.4
	14.522	17471.45	0.65
	14.613	30095.92	1.12
	14.693	30095.68	1.12
	14.818	26088.6	0.97
	14.942	30070.8	1.12
	15.047	13201.2	0.49
PHENANTHRENE	15.501	79724.5	2.98
	15.618	13908.6	0.52
	15.763	8645.83	0.32
	15.821	7150.37	0.27

	15.977	15803.6	0.59
	16.079	29243.4	1.09
3-ME PHENANTHRENE	16.804	36916	1.38
2-ME PHENANTHRENE	16.859	35053.9	1.31
9-ME PHENANTHRENE	17.055	16353.2	0.61
1-ME PHENANTHRENE	17.107	15410.6	0.58
	17.164	11439.2	0.43
	17.359	23910.6	0.89
	17.558	21054.28	0.79
	17.721	13879.12	0.52
	17.965	34850.2	1.3
	18.09	15635.1	0.58
	18.204	16444.81	0.61
	18.276	16301.19	0.61
	18.492	19671.8	0.74
	18.791	15428.89	0.58
	18.861	9242.91	0.35
	18.942	13459.67	0.5
	18.998	39052.56	1.46
	19.088	21324.68	0.8
	19.186	8894.3	0.33
	19.652	14994	0.56
	19.717	8008.85	0.3
	19.939	15398.95	0.58
	20.196	8223	0.31
	20.412	10142.2	0.38
	20.486	16306.2	0.61
	20.855	10602.2	0.4
	22.134	11552.8	0.43
	22.677	10190.5	0.38
	22.836	14191.5	0.53
	23.157	12517.6	0.47
	24.07	42617.8	1.59
	24.276	8753.2	0.33
	25.218	66694	2.49
	28.168	12856.6	0.48
	28.899	26042	0.97
	33.811	20.83	8.00E-04
		2675812	100

GC-MS PEAK HEIGHT DATA

PEAK HEIGHTS	MPDMIO00854021.LIS	PDMIO00854031.LIS	PDMIO00854041.LIS	PDMIO00854051.LIS
	34/11-4T2 4152.7m	34/11-4T2 4157.95m	34/11-4T2 4165.85m	34/11-4T2 4176.85m
	\$9906SED008S002\$	\$9906SED008S004\$	\$9906SED008S007\$	\$9906SED008S011\$
PRISTANE	0	0	0	0
PHYTANE	0	0	0	0
C19 TRICYCLIC TERPANE(19/3)	968293	0	0	1289500
C20 TRICYCLIC TERPANE(20/3)	3692970	2730910	2805500	3056810
C21 TRICYCLIC TERPANE(21/3)	4636710	6453580	6670810	3505640
C22 TRICYCLIC TERPANE(22/3)	973979	1430410	1404630	762956
C23 TRICYC TERPANE(T5:23/3)	4613860	4893180	5191200	3192140
C24 TRICYC TERPANE (24/3)	1779420	1950760	2160100	1116300
C25 TRICYC TERPANE (25/3)	1239010	1048960	1431130	575717
C24 TETRACYC TERP (\$:24/4)	2019940	2565210	2630010	1509470
C26 TRICYCLIC TERPANE(26/3)	977898	1023250	1019050	600357
C26 TRICYCLIC TERP 2 (26/3)	956691	1183810	1185370	551205
C28 TRICYCLIC TERPANE(28/3)	994005	0	917673	0
C28 TRICYCLIC TERP 2 (28/3)	850196	0	781048	0
C29 TRICYCLIC TERPANE(29/3)	1153010	0	0	0
C29 TRICYCLIC TERP 2 (29/3)	5736970	0	0	0
C27 18A HOPANE (Ts:27Ts)	1242520	1390090	1623430	608446
C27 17A HOPANE (Tm:27Tm)	7841620	11828700	12379300	5607070
C30 TRICYCLIC TERPANE(30/3)	0	0	0	0
C30 TRICYCLIC TERP 2 (30/3)	0	0	0	0
25-TRISNORm/z177(25nor28ab)	0	0	0	0
C28 BISNORHOPANE (X:28ab)	976042	0	0	0
25-NOR m/z177 (Y:25nor30ab)	0	0	0	0
25-NORHOPANE (Y:25nor30ab)	0	0	0	0
C29 HOPANE (D:29ab)	26658100	42159900	41052900	18483700
C29 18A NORHOPANE (D2:29Ts)	0	0	0	0
C30 C30 DIAHOPANE (Pi:30d)	0	0	0	0
C29 NORMORETANE (A:29ba)	3420880	5243410	5369520	2412060
C30 18A OLEANANE (B:30O)	0	0	0	0
C30 HOPANE (G:30ab)	39181900	65510100	66644900	27880500
NOR-GAMMACERANE? (G2)	0	0	0	0
C30 MORETANE (K:30ba)	10570700	17383700	18414900	7254540
C31 22S HOPANE (N:31abS)	7702820	11918200	11922600	4877970
C31 22R HOPANE (O:31abR)	11068400	19167700	18609500	7682430
C31 22S M/Z205 (N205)	2656900	4233330	4105450	1714440
C31 22R M/Z205 (O205)	2213110	3540160	3448310	1364030
C30 GAMACERANE (S:30G)	0	0	0	0
C30 17B 21B HOPANE (P)	1279480	2306110	2560780	731011
C32 22S HOPANE (U:32abS)	3857200	6195240	5907360	2348470
C32 22R HOPANE (V:32abR)	2707880	4190130	3988530	1627340
C33 22S HOPANE(Alpha:33abS)	2191910	3246600	3011680	1212790
C33 22R HOPANE (Beta:33abR)	1807750	2718400	2688560	1029660
C34 22S HOPANE(Gamma:34abS)	1144980	1709030	1498600	580364
C34 22R HOPANE(Delta:34abR)	774568	1377160	1070050	547913
C35 22S HOP (Epsilon:35abS)	898082	1141820	970790	443712
C35 22R HOPANE (Zeta:35abR)	666785	733184	602932	271672
C21 STERANE	1188220	1253860	2243620	549970
C27 20S DIASTER (10:27dbS)	1446150	1809390	2570780	729560
C27 20R DIASTER (11:27dbR)	1075700	1256870	1745340	487496
C27 20S AAA STER (20:27aaS)	1428660	2037550	2303340	848855
C29 20S DIASTER (21A:29dbS)	1236110	1552220	2242210	550130
C27 20R ISOST218(21B:27bbR)	1119160	1280150	1711480	492251
C27 20S ISOST218 (22:27bbS)	968766	1152530	1373020	407407
C27 20R ISOSTER 217 (27bbR)	1236110	1552220	2242210	550130
C27 20S ISOSTER 217 (27bbS)	895257	1030560	1361090	333491
C27 20R AAA STER (25:27aaR)	2236430	3362080	3650800	1472950
C29 20R DIASTER (27:29dbR)	1094090	1257190	1907450	422651
C28 20R ISOST218(33A:28bbR)	1647600	2178100	2615180	848540
C28 20S ISOST218 (34:28bbS)	1559510	2007190	2626580	802128
C28 20R ISOSTER 217 (28bbR)	1908730	2630490	3059390	1039430
C28 20S ISOSTER 217 (28bbS)	1428930	1892570	2373210	691387
C28 20R AAA STER (36:28aaR)	3703590	5939920	6311620	2465620
C29 20S AAA STER (39:29aaS)	2048170	3154600	3475020	1262490
C29 20R ISOST218 (40:29bbR)	1395120	1884500	2389830	721275
C29 20S ISOST218 (41:29bbS)	1554150	1994980	2403240	730998
C29 20R ISOSTER217 (29bbR)	1413730	1971480	2464630	686470
C29 20S ISOSTER217 (29bbS)	1489490	2033240	2312390	678372
C29 20R AAA STER (42:29aaR)	3163920	4929000	5306810	2090440
C30 20R ISOSTER218 (30bbR)	242831	275775	477673	108681
C30 20S ISOSTER218 (30bbS)	245833	347763	0	0
C30 4-METHYL STERANE (46)	377677	530751	557544	252182

GC-MS PEAK HEIGHT DATA

PEAK HEIGHTS	MPDMIO00854021.LIS	PDMIO00854031.LIS	PDMIO00854041.LIS	PDMIO00854051.LIS
	34/11-4T2 4152.7m \$9906SED008S002\$	34/11-4T2 4157.95m \$9906SED008S004\$	34/11-4T2 4165.85m \$9906SED008S007\$	34/11-4T2 4176.85m \$9906SED008S011\$
2-ME NAPHTHALENE	13882000	133435000	266059008	312440000
1-ME NAPHTHALENE	82587200	77222600	136801008	271120992
2-ME BIPHENYL	2268660	2065680	3161790	8812430
3-ME BIPHENYL	57294300	49301900	107476000	85047104
4-ME BIPHENYL	18549000	16322700	33052200	37254800
PHENANTHRENE	36155700	29687000	45261300	320250016
3-ME PHENANTHRENE	14645800	12764500	23107500	53263600
2-ME PHENANTHRENE	11978000	10519300	19320900	39041700
9-ME PHENANTHRENE	18077400	17105500	33720600	54606000
1-ME PHENANTHRENE	8972000	8858690	14919400	43906800
DIBENZOTHIOPHENE	1601830	1735190	2599900	9113960
4-ME DIBENZOTHIOPHENE	2937820	2965180	6079940	2189970
3+2-ME DIBENZOTHIOPHENE	990019	1042340	1871830	1638410
1-ME DIBENZOTHIOPHENE	408023	436450	533558	1183620
C21 MA STERANE (F22:A1)	424651	206348	266320	231500
C22 MA STERANE (F23:B1)	285029	432279	533223	156543
C27 20S 5B DM MA-ST(F2:C1)	166649	172333	134882	107026
C27 20S 10B DM MA-DIA (C1)	537926	673997	766762	381361
C27 20R 5B DM MA-ST(F3:D1)	734920	1011420	1038800	436103
C27 20S 5A DM MA-ST(F4:D1)	218149	261892	313320	93502
C28 20S 5B DM MA-ST(F5:E1)	969140	1432550	1376840	623815
C27 20S 5A DM MA-DS(:F1)	128887	221602	201501	103811
C27 20R 5A DM MA-ST(F6:G1)+	543405	567777	634010	258021
C28 20S 5A DM MA-ST(F7:G1)	543405	567777	634010	258021
C28 20R 5B DM MA-ST(F8:G1)	954682	1212040	1243210	530941
C29 20S 5B DM MA-ST(F9:G1)	1027420	1548960	1512320	628633
C29 20S 5A DM MA-ST(F10:H1)	268160	389547	383587	148029
C28 20R 5A DM MA-ST(F11:H1)	411082	533557	509572	179422
C29 20R 5B DM MA-ST(F12:H1)	536676	838814	759779	297616
C29 20R 5A DM MA-ST(F13:I1)	290438	417130	386272	129568
C20 ME TA-STER(F14:a1)	811332	916742	2345860	341436
C21 ME TA-STER(F15:b1)	494832	598173	1452910	298895
C26 20S ME TA-STER(F16:c1)	206805	322048	379665	120810
C26 20R ME TA-STER(F17:d1)+	858309	1436800	1395840	550790
C27 20S ME TA-STER(F18:d1)	858309	1436800	1395840	550790
C28 20S ME TA-STER(F19:e1)	622751	1118350	1037680	372024
C27 20R ME TA-STER(F20:f1)	465910	758407	693294	280138
C28 20R ME TA-STER(F21:g1)	540148	939563	989384	379664
?C21 20S DIASTER	1261900	1479090	2408080	678132
?C21 20R DIASTER	448944	538827	1028090	259832
?C21 AAA+ABB	1188220	1253860	2243620	549970
?C22 DIASTER	0	0	0	0
?C22 AAA+ABB	542680	576589	713790	283627

GC-MS PEAK HEIGHT DATA

	MPDMIO00854061.LIS 34/11-4T2 4195.15m \$9906SED008S016\$	PDMIO00854071.LIS 34/11-4T2 4196.15m \$9906SED008S017\$	PDMIO00854081.LIS 34/11-4T2 4198.2m \$9906SED008S019\$
PRISTANE	0	0	0
PHYTANE	0	0	0
C19 TRICYCLIC TERPANE(19/3)	1718650	2132430	6697400
C20 TRICYCLIC TERPANE(20/3)	3282430	1871980	4048440
C21 TRICYCLIC TERPANE(21/3)	3327450	4264990	9040570
C22 TRICYCLIC TERPANE(22/3)	686165	908576	1560070
C23 TRICYC TERPANE(T5:23/3)	3033820	3598120	5870030
C24 TRICYC TERPANE (24/3)	1154450	1293750	2264000
C25 TRICYC TERPANE (25/3)	627451	774814	1463720
C24 TETRACYC TERP (\$:24/4)	1451840	1610760	2771100
C26 TRICYCLIC TERPANE(26/3)	658005	646429	1414900
C26 TRICYCLIC TERP 2 (26/3)	629103	595166	1123750
C28 TRICYCLIC TERPANE(28/3)	0	0	0
C28 TRICYCLIC TERP 2 (28/3)	0	0	0
C29 TRICYCLIC TERPANE(29/3)	0	0	0
C29 TRICYCLIC TERP 2 (29/3)	0	0	0
C27 18A HOPANE (Ts:27Ts)	658782	682972	1544490
C27 17A HOPANE (Tm:27Tm)	6261450	6350610	16046900
C30 TRICYCLIC TERPANE(30/3)	0	0	0
C30 TRICYCLIC TERP 2 (30/3)	0	0	0
25-TRISNORm/z177(25nor28ab)	0	0	0
C28 BISNORHOPANE (X:28ab)	0	0	0
25-NOR m/z177 (Y:25nor30ab)	0	0	0
25-NORHOPANE (Y:25nor30ab)	0	0	0
C29 HOPANE (D:29ab)	19060300	21659300	58160400
C29 18A NORHOPANE (D2:29Ts)	0	0	0
C30 C30 DIAHOPANE (Pl:30d)	0	0	0
C29 NORMORETANE (A:29ba)	2600930	2874620	7521910
C30 18A OLEANANE (B:30O)	0	0	0
C30 HOPANE (G:30ab)	28853100	33809200	93063000
NOR-GAMMACERANE? (G2)	0	0	0
C30 MORETANE (K:30ba)	7825950	8638540	25108300
C31 22S HOPANE (N:31abS)	5502520	5713230	16944300
C31 22R HOPANE (O:31abR)	8382260	9354220	26851800
C31 22S M/Z205 (N205)	1993530	2030240	6133440
C31 22R M/Z205 (O205)	1640670	1751970	5051880
C30 GAMACERANE (S:30G)	0	0	0
C30 17B 21B HOPANE (P)	1000990	1039230	3295560
C32 22S HOPANE (U:32abS)	2753470	2841260	8471880
C32 22R HOPANE (V:32abR)	1859150	1886160	5927480
C33 22S HOPANE(Alpha:33abS)	1468260	1470310	5456000
C33 22R HOPANE (Beta:33abR)	1214200	1219990	4463120
C34 22S HOPANE(Gamma:34abS)	710913	743253	2543340
C34 22R HOPANE(Delta:34abR)	647345	642096	1924420
C35 22S HOP (Epsilon:35abS)	528461	511468	1610370
C35 22R HOPANE (Zeta:35abR)	329728	373764	1134260
C21 STERANE	849893	677551	2054970
C27 20S DIASTER (10:27dbS)	864769	799325	2380990
C27 20R DIASTER (11:27dbR)	568661	564803	1476200
C27 20S AAA STER (20:27aaS)	1025890	1050930	2935880
C29 20S DIASTER (21A:29dbS)	724667	622984	1989840
C27 20R ISOST218(21B:27bbR)	639476	594808	1759410
C27 20S ISOST218 (22:27bbS)	498473	476007	1488830
C27 20R ISOSTER 217 (27bbR)	724667	622984	1989840
C27 20S ISOSTER 217 (27bbS)	482411	460234	1315350
C27 20R AAA STER (25:27aaR)	1619150	1772960	4697100
C29 20R DIASTER (27:29dbR)	550873	544147	1611920
C28 20R ISOST218(33A:28bbR)	1073320	1109650	3255800
C28 20S ISOST218 (34:28bbS)	920619	973680	2839980
C28 20R ISOSTER 217 (28bbR)	1313280	1328260	3584450
C28 20S ISOSTER 217 (28bbS)	849511	912990	2409300
C28 20R AAA STER (36:28aaR)	2747010	3062990	8679610
C29 20S AAA STER (39:29aaS)	1424980	1554610	4507470
C29 20R ISOST218 (40:29bbR)	876637	926222	2792400
C29 20S ISOST218 (41:29bbS)	895558	912356	2678360
C29 20R ISOSTER217 (29bbR)	904880	929828	2635970
C29 20S ISOSTER217 (29bbS)	868503	876583	2589430
C29 20R AAA STER (42:29aaR)	2388230	2460210	7379250
C30 20R ISOSTER218 (30bbR)	153990	140706	446101
C30 20S ISOSTER218 (30bbS)	0	0	0
C30 4-METHYL STERANE (46)	254143	277101	718973

GC-MS PEAK HEIGHT DATA

PEAK HEIGHTS	MPDMIO00854061.LIS	PDMIO00854071.LIS	PDMIO00854081.LIS
	34/11-4T2 4195.15m \$9906SED008S016\$	34/11-4T2 4196.15m \$9906SED008S017\$	34/11-4T2 4198.2m \$9906SED008S019\$
2-ME NAPHTHALENE	313944000	379064992	215344000
1-ME NAPHTHALENE	269918016	315134016	126855000
2-ME BIPHENYL	11509800	9787800	2697640
3-ME BIPHENYL	113992000	78912304	51151400
4-ME BIPHENYL	47834600	32863700	17351700
PHENANTHRENE	668832000	340683008	57243200
3-ME PHENANTHRENE	102120000	50024800	16936200
2-ME PHENANTHRENE	82362104	39228900	13465400
9-ME PHENANTHRENE	112344000	54854900	17760500
1-ME PHENANTHRENE	86063800	43859500	10722900
DIBENZOTHIOPHENE	18709600	10351700	2621800
4-ME DIBENZOTHIOPHENE	5418620	2728780	3360610
3+2-ME DIBENZOTHIOPHENE	3545070	1882830	1256280
1-ME DIBENZOTHIOPHENE	2214030	1229900	429317
C21 MA STERANE (F22:A1)	241743	188288	0
C22 MA STERANE (F23:B1)	211227	186787	379977
C27 20S 5B DM MA-ST(F2:C1)	166443	117754	334284
C27 20S 10B DM MA-DIA (C1)	376512	440560	965604
C27 20R 5B DM MA-ST(F3:D1)	527671	568830	1206330
C27 20S 5A DM MA-ST(F4:D1)	124277	146193	244855
C28 20S 5B DM MA-ST(F5:E1)	672620	786786	1748770
C27 20S 5A DM MA-DS(:F1)	137876	104987	212368
C27 20R 5A DM MA-ST(F6:G1)+	305095	344479	838379
C28 20S 5A DM MA-ST(F7:G1)	305095	344479	838379
C28 20R 5B DM MA-ST(F8:G1)	680952	727858	1543590
C29 20S 5B DM MA-ST(F9:G1)	0	0	1889890
C29 20S 5A DM MA-ST(F10:H1)	168508	194169	517632
C28 20R 5A DM MA-ST(F11:H1)	252188	226220	611107
C29 20R 5B DM MA-ST(F12:H1)	400766	396266	1025250
C29 20R 5A DM MA-ST(F13:I1)	189822	180771	539379
C20 ME TA-STER(F14:a1)	675337	465525	1137210
C21 ME TA-STER(F15:b1)	539663	361875	1065450
C26 20S ME TA-STER(F16:c1)	155038	156322	464578
C26 20R ME TA-STER(F17:d1)+	790358	722839	2047040
C27 20S ME TA-STER(F18:d1)	790358	722839	2047040
C28 20S ME TA-STER(F19:e1)	526699	474388	1460960
C27 20R ME TA-STER(F20:f1)	451597	363195	1204110
C28 20R ME TA-STER(F21:g1)	488481	456273	1456930
?C21 20S DIASTER	958505	869912	412563
?C21 20R DIASTER	307165	303665	979044
?C21 AAA+ABB	849893	677551	2054970
?C22 DIASTER	0	0	0
?C22 AAA+ABB	366348	359982	628849

GC-MS BIOMARKER PARAMETERS

HSRUN	34/11-4T2 4152.7m	34/11-4T2 4157.95m	34/11-4T2 4165.85m	34/11-4T2 4176.85m	
	MPDMIO00854021	MPDMIO00854031	MPDMIO00854041	MPDMIO00854051	
H1	C32 HOPANES 22S/(22S+22R)	0.59	0.6	0.6	0.59
H2	C31 HOPANES 22S/(22S+22R) M/Z205	0.55	0.54	0.54	0.56
H3	C30: HOPANE/(HOPANE+MORETANE)	0.79	0.79	0.78	0.79
H4	C30: BB HOPANE / C30 HOPANE AS %	3.27	3.52	3.84	2.62
H5_0	C29 HOPANE AS % C30	68.04	64.36	61.6	66.3
H5_1	HOPANE DISTRIBUTION RELATIVE TO C30	100	100	100	100
H5_2	C31 HOPANES AS % OF C30 (205 CORRECTED)	36.03	33.41	32.92	31.42
H5_3	C32 HOPANES	16.76	15.85	14.85	14.26
H5_4	C33 HOPANES	10.21	9.11	8.55	8.04
H5_5	C34 HOPANES	4.9	4.71	3.85	4.05
H5_6	C35 HOPANES	3.99	2.86	2.36	2.57
H6	C27 HOPANES TS/(TS+TM)	0.14	0.11	0.12	0.1
H7	C33 HOPANES 22S/(22S+22R)	0.55	0.54	0.53	0.54
H11	C23 TRICYCLIC/C30 HOPANE AS %	11.78	7.47	7.79	11.45
H12	C24 TETRACYCLIC/C30 HOPANE AS %	5.16	3.92	3.95	5.41
H13	28 30 BISNORHOPANE/HOPANE AS %				
H14	C30 DIAHOPANE PI/HOPANE AS %				
H15	OLEANANE/HOPANE AS %				
H16	GAMMACERANE/HOPANE AS % (205 BACK CALCULATED)	11.87	14.05	12.9	13.63
H17	HOPANE INDEX C35/(C35+C34) %	44.91	37.79	37.99	38.8
H18	25-NORHOPANE(Y)/HOPANE AS % G				
H19	C29 18A-NORHOPANE D2/C30 HOPANE AS %				
S1	C29 STERANES 20S/(20S+20R)	0.39	0.39	0.4	0.38
S2	C29 STERANES m/z218 ABB/(ABB+AAA)	0.36	0.32	0.35	0.3
S3_1	STERANE DISTRIBUTION AAA C27 %	24.57	23.63	23.91	24.43
S3_2	C28 %	40.68	41.74	41.34	40.9
S3_3	C29 %	34.75	34.64	34.75	34.67
S4_1	STERANE DISTRIBUTION ABB C27 %	25.33	23.17	23.51	22.48
S4_2	C28 %	38.9	39.87	39.95	41.24
S4_3	C29 %	35.77	36.96	36.53	36.28
S5	BA DIASTERANES/(BA DIASTERANES+AAA+ABB STERANES) %	30.42	27.31	31.61	26.44
S7	STERANE INDEX C27/(C27+C29) % FROM S3	41.41	40.55	40.76	41.34
S8	C30 4-ME STERANE AS % OF C29 20R AAA	11.94	10.77	10.51	12.06
M4	SUM C27 TO C35 HOPANES/(SAME+C27 TO C29 STERANES)	75.31	79.01	76	79.3
PR/PH	PRISTANE/PHYTANE RATIO ESTIMATE				
M2	PHENANTHRENES (3ME+2ME) / (9ME+1ME)	1.11	1.01	0.98	1.06
M3	MPII PHENANTHRENES (3ME+2ME) / (9ME+1ME+PHEN) * 1.5	0.87	0.85	0.9	0.49
A1	ARO STERANES: C28 20R TRI/(SAME+C29 20R 5A&B MONO 12	0.35	0.39	0.42	0.43
A2	ARO STERANES: SUM TRI/(SAME+SUM MONO)(F9&F12split)	0.35	0.39	0.46	0.36
A3	TRI ARO STERANES: C20/(C20+C28 20R)	0.6	0.49	0.7	0.47
A4	TRI ARO STERANES: (C20+C21)/(SAME+SUM C26 TO C28)	0.33	0.25	0.46	0.27
A5	TRI ARO STERANES: C26 20S / C28 20S	0.33	0.29	0.37	0.32
A6	TRI ARO STERANES: C27 20R / C28 20R	0.86	0.81	0.7	0.74
MDR	4-ME DIBENZOTHIOPHENE / 1-ME DIBENZOTHIOPHENE	7.2	6.79	11.4	1.85
MBP	3-METHYLBIPHENYL / 2-METHYLBIPHENYL	25.25	23.87	33.99	9.65
MNR	2-ME NAPHTHALENE/1-ME NAPHTHALENE	1.68	1.73	1.94	1.15
SMN	(2-ME NAPTH+1-ME NAPTH)/C23 TRICYCLIC				
DBTP	DIBENZOTHOIOPHENE(MZ184)/PHENANTHRENE(MZ178)	0.04	0.06	0.06	0.03
T19	C19 TRICYCLIC/C23 TRICYCLIC %	20.99			40.4
T20	C20 TRICYCLIC/C23 TRICYCLIC %	80.04	55.81	54.04	95.76
T21	C21 TRICYCLIC/C23 TRICYCLIC %	100.5	131.89	128.5	109.82
T22	C22 TRICYCLIC/C23 TRICYCLIC %	21.11	29.23	27.06	23.9
T23	C23 TRICYCLIC/C23 TRICYCLIC %	100	100	100	100
T24	C24 TRICYCLIC/C23 TRICYCLIC %	38.57	39.87	41.61	34.97
T25	C25 TRICYCLIC/C23 TRICYCLIC %	26.85	21.44	27.57	18.04
T26	C26 TRICYCLICS/C23 TRICYCLIC %	41.93	45.1	42.46	36.07
T28	C28 TRICYCLICS/C23 TRICYCLIC %	39.97		32.72	
T29	C29 TRICYCLICS/C23 TRICYCLIC %				
T30	C30 TRICYCLICS/C23 TRICYCLIC %				
19/23	C19 TRICYCLIC/C23 TRICYCLIC AS %	20.99			40.4
20/21	C20 TRICYCLIC/C21 TRICYCLIC AS %	79.65	42.32	42.06	87.2
22/21	C22 TRICYCLIC/C21 TRICYCLIC AS %	21.01	22.16	21.06	21.76
24/23	C24 TRICYCLIC/C23 TRICYCLIC AS %	38.57	39.87	41.61	34.97
26/25	C26 TRICYCLICS/C25 TRICYCLIC AS %	156.14	210.4	154.03	200.02
244_24	C24 TETRACYCLIC/C24 TRICYCLIC AS %	113.52	131.5	121.75	135.22
TET_23	C24 TETRACYCLIC/C23 TRICYCLIC AS %	43.78	52.42	50.66	47.29