GC/MS Aromatics Report

Well: 021/19-03

Field: Mallard

Country: United Kingdom

Shell Global Solutions International B.V., Rijswijk.

GC/MS aromatics data report
FPC_62111

Sample information

Sample ID	**FPC_62111**	Depth (ft)	**12730.0 - 12816.0**
Sample type	**Oil**	Formation	**-**
Country	**United Kingdom**	Age	**-**
Basin	**Central Trough**	Reservoir	**-**
Prospect	**NORTH SEA**	Sample date	**-**
Block	**021/19**	Sample origin	**UNKN**
Field	**Mallard**	Operator	**VENTURE**
Well name	**021/19-03**	Int. std. D10-Phenanthrene (ppm)	**90**
Well code	**FPCW_2738**		
Latitude	**57.417732**		
Longitude	**0.774753**		

Peak Data Table
FPC_62111

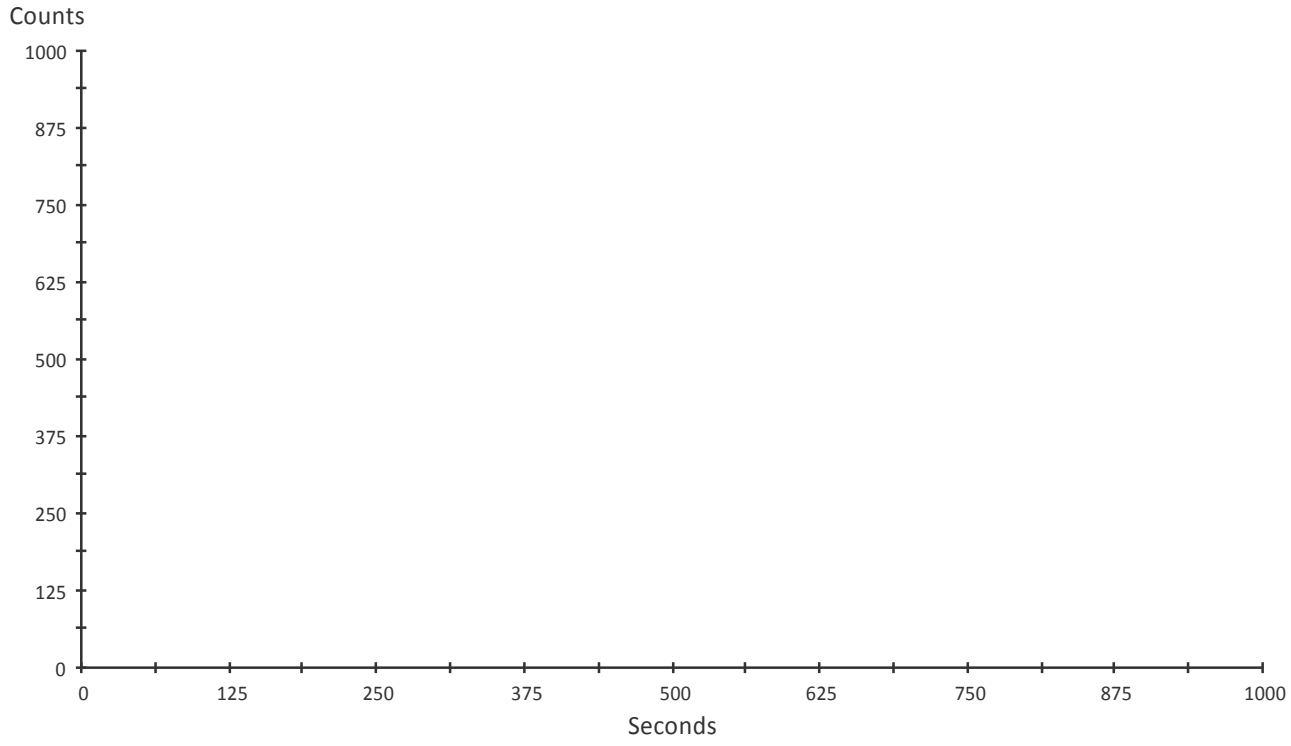
Peak name	Ion	Area
2,3,6_TMB_C15arylisoprenoid	134.10	-
2,3,6_TMB_C16arylisoprenoid	134.10	-
2,3,6_TMB_C17arylisoprenoid	134.10	-
2,3,6_TMB_C18arylisoprenoid	134.10	-
2,3,6_TMB_C19arylisoprenoid	134.10	-
2,3,6_TMB_C20arylisoprenoid	134.10	-
2,3,6_TMB_C21arylisoprenoid	134.10	-
2,3,6_TMB_C22Barylisoprenoid	134.10	-
2,3,6_TMB_C23arylisoprenoid	134.10	-
2-methylnaphtalene	142.10	714457.81
1-methylnaphtalene	142.10	825528.75
2,6-dimethylnaphthalene	156.10	312382.06
2,7-dimethylnaphthalene	156.10	236089.78
1,3+1,7-dimethylnaphthalene	156.10	715468.94
1,6-dimethylnaphthalene	156.10	630767.50
1,5-dimethylnaphthalene	156.10	178276.11
2,3-dimethylnaphthalene	156.10	280644.97
1,2-dimethylnaphthalene	156.10	63894.64
1,3,7-trimethylnapthalene	170.10	253890.22
1,3,6-trimethylnapthalene	170.10	383964.62
1,3,5+1,4,6-trimethylnapthalene	170.10	332981.72
2,3,6-trimethylnapthalene	170.10	203918.31
1,2,7-trimethylnapthalene	170.10	38021.62
1,6,7-trimethylnapthalene	170.10	228576.62
1,2,6-trimethylnapthalene	170.10	9877.32
1,2,4-trimethylnapthalene	170.10	15556.46
1,2,5-trimethylnapthalene	170.10	51877.62
Phenanthrene	178.10	365930.16
1,3,5,7-tetramethylnapthalene	184.10	79081.40
1,3,6,7-tetramethylnapthalene	184.10	99796.46
1,2,4,7-tetramethylnapthalene	184.10	45338.41
1,2,5,7-tetramethylnapthalene	184.10	24286.54
2,3,6,7-tetramethylnapthalene	184.10	19816.92
1,2,6,7-tetramethylnapthalene	184.10	6020.14
1,2,5,6-tetramethylnapthalene	184.10	12662.06
Dibenzothiophene	184.10	158607.30
D10-Phenanthrene (Intern. Std.)	188.10	85138.91
3-methylphenanthrene	192.10	168336.66
2-methylphenanthrene	192.10	200682.72
9-methylphenanthrene	192.10	421740.91
1-methylphenanthrene	192.10	312874.66
Cadalene	198.00	9930.03
4-methyldibenzothiophene	198.10	451519.31
3+2-methyldibenzothiophene	198.10	160589.50
1-methyldibenzothiophene	198.10	72558.55
4,5-dimethylphenanthrene	206.20	5841.06
2,6+3,6-dimethylphenanthrene	206.20	51213.29
3,5-dimethylphenanthrene	206.20	56376.91
2,7-dimethylphenanthrene	206.20	35122.96
3,9-dimethylphenanthrene	206.20	408341.38
1,6+2,5+2,9-dimethylphenanthrene	206.20	205657.14
1,7-dimethylphenanthrene	206.20	136728.88
1,9+4,9-dimethylphenanthrene	206.20	150852.31
1,8-dimethylphenanthrene	206.20	57323.27
1,2-dimethylphenanthrene	206.20	12024.59

Peak name	Ion	Area
TA_C20	231.20	9004.74
TA_C21	231.20	8663.96
TA_C22_20S	231.20	-
TA_C22_20R	231.20	-
TA_C26_20S	231.20	-
TA_C26_20R_C27_20S	231.20	-
TA_C28_20S_A+B	231.20	-
TA_C27_20R	231.20	-
TA_C29_20S_A	231.20	-
TA_C29_20S_B	231.20	-
TA_C28_20R	231.20	-
MA_C21_A	253.20	4150.43
MA_C21_B	253.20	2763.70
MA_C22_A	253.20	5021.38
MA_C22_B	253.20	3405.12
MA_C27_I_20S	253.20	1218.27
MA_C27_V_20S	253.20	1419.53
MA_C27_I_20R_C27_V_20R	253.20	1250.02
MA_C27_II_20S	253.20	909.24
MA_C28_I_20S	253.20	1406.10
MA_C28_V_20S	253.20	769.19
MA_C27_II_20R	253.20	1180.46
MA_C28_II_20S	253.20	595.17
MA_C28_I_20R_C28_V_20R	253.20	930.75
MA_C29_I_20S_C29_V_20S	253.20	1154.69
MA_C29_II_20S	253.20	2525.99
MA_C28_II_20R	253.20	1500.49
MA_C29_I_20R_C29_V_20R	253.20	1218.24

Sample	**FPC_62111**	Sample type	**Oil**	Analysis	**GC-MSD in SIM mode**
Depth	**12730.0-12816.0ft**	Fraction	**Aromatic**	Analysis date	**25-AUG-2011**

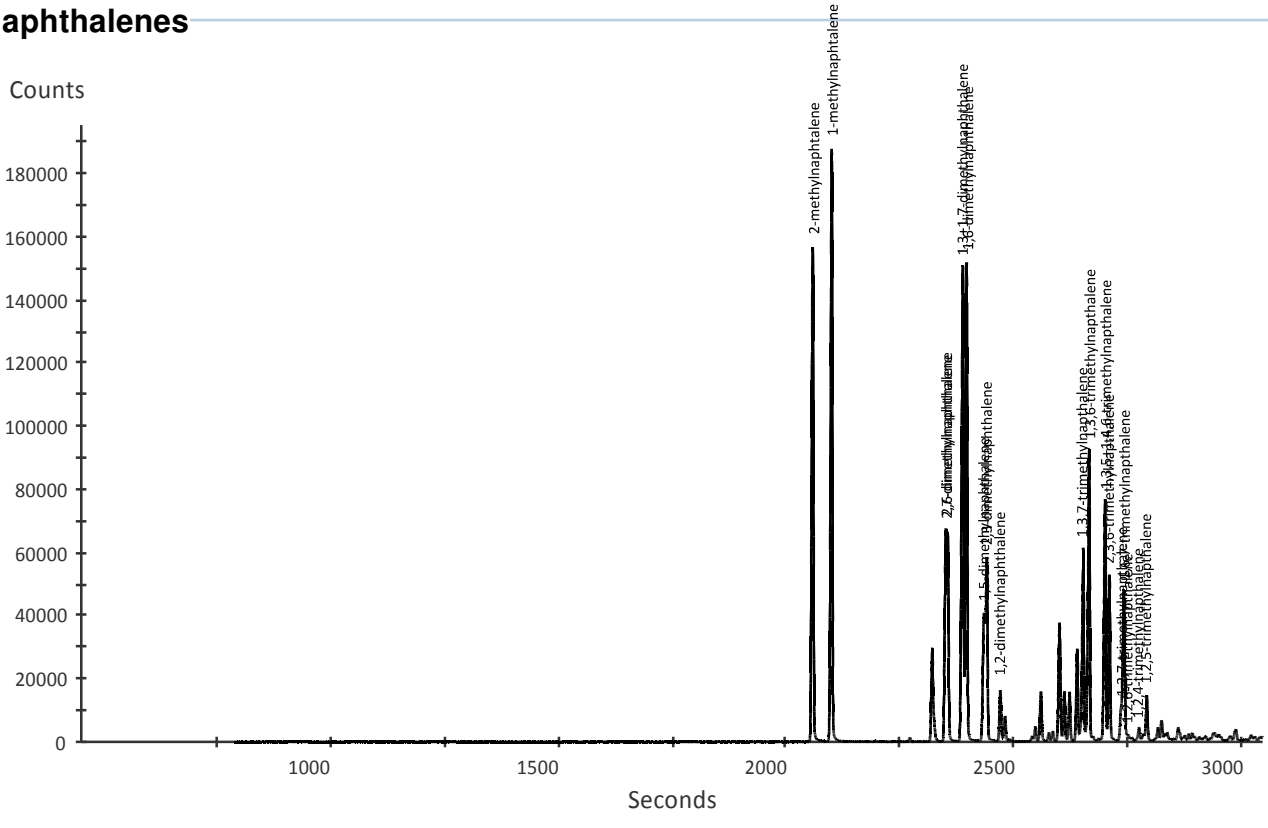
m/z	signal intensity
134.1	**1,000**

Alkyl-trimethylbenzenes



m/z	signal intensity
142.1+156.1+170.1	**195,336.96**

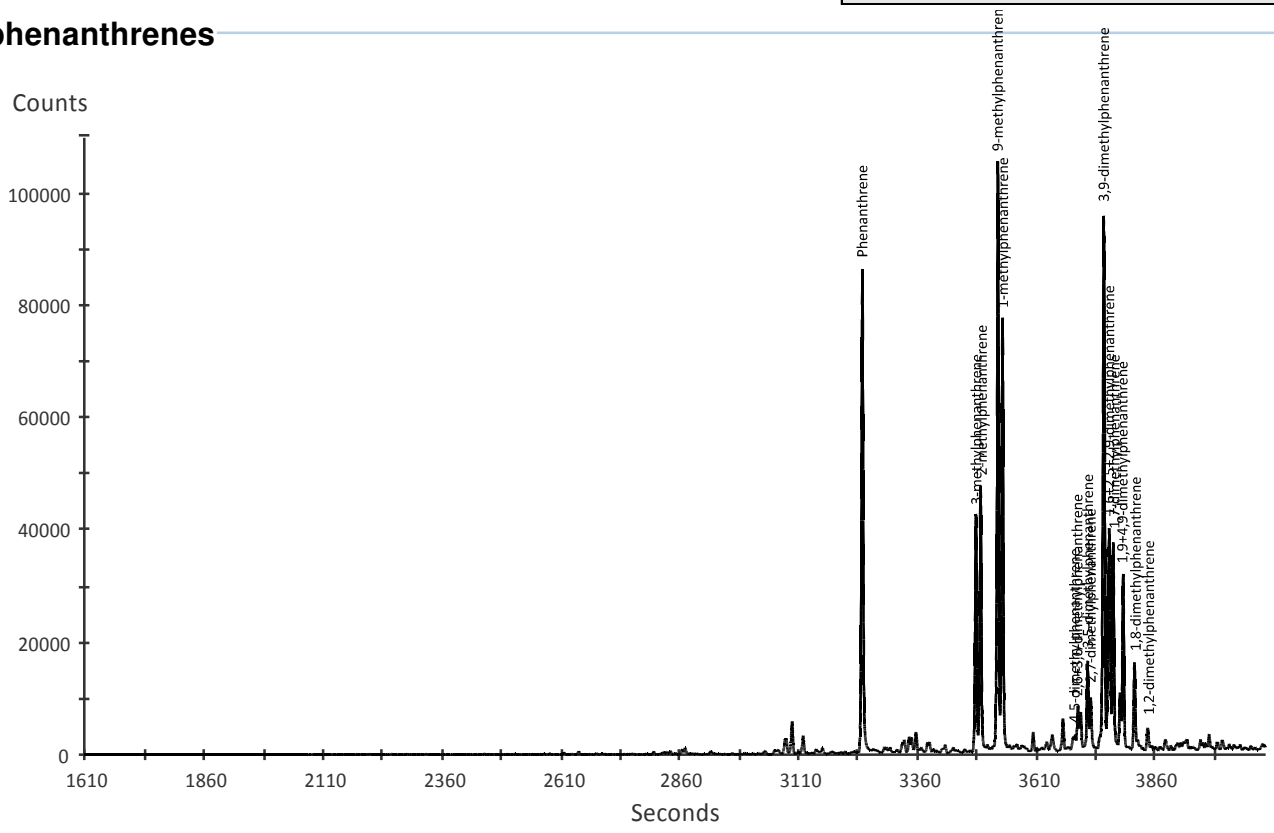
Methylnaphthalenes



Sample	**FPC_62111**	Sample type	**Oil**	Analysis	**GC-MSD in SIM mode**
Depth	**12730.0-12816.0ft**	Fraction	**Aromatic**	Analysis date	**25-AUG-2011**

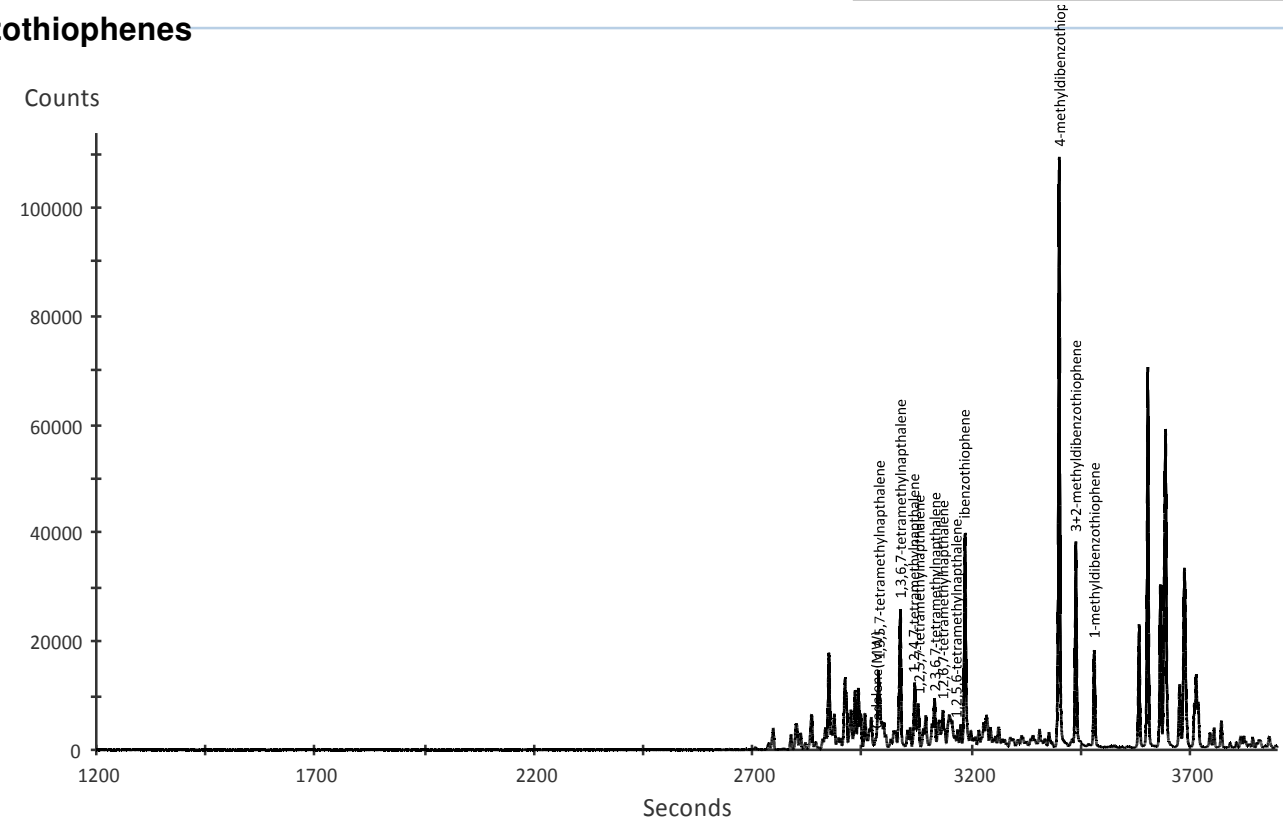
m/z	signal intensity
178.1+192.1+206.1	**109,737.68**

Methylphenanthrenes



m/z	signal intensity
184.0+198.1+212.1	**113,767.68**

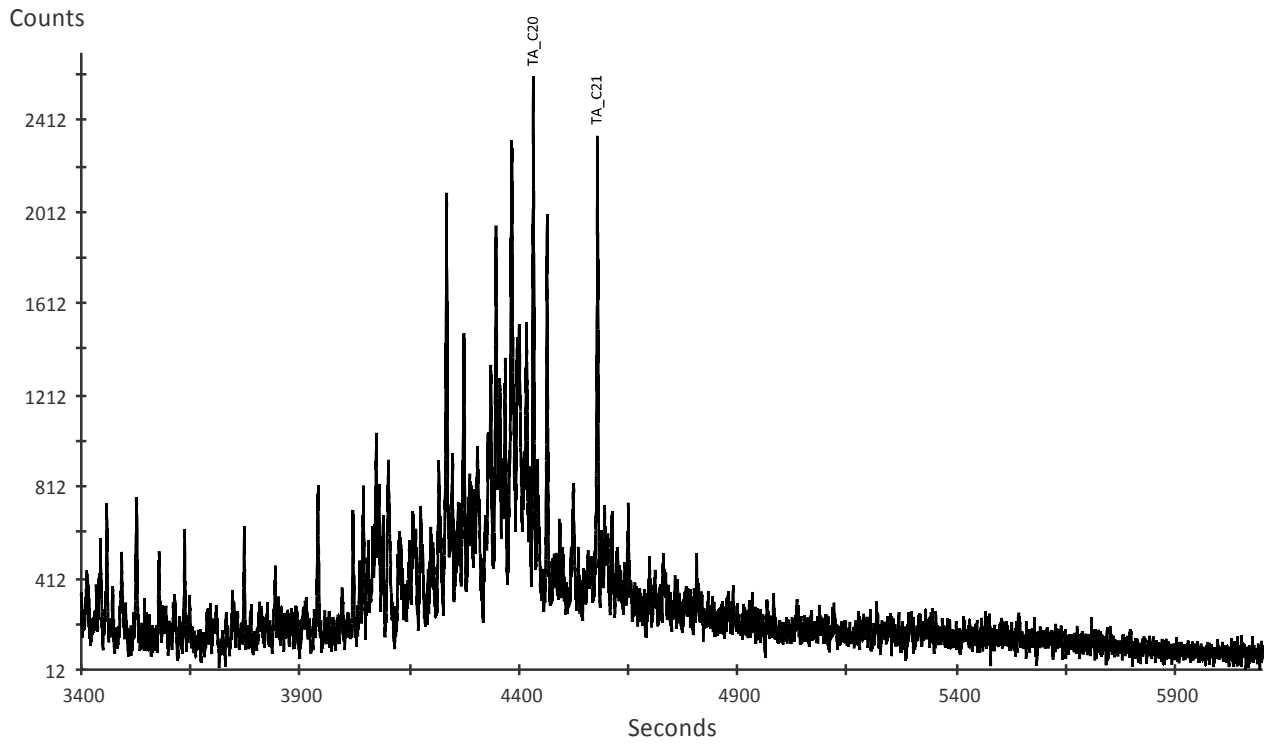
Dibenzothiophenes



Sample	**FPC_62111**	Sample type	**Oil**	Analysis	**GC-MSD in SIM mode**
Depth	**12730.0-12816.0ft**	Fraction	**Aromatic**	Analysis date	**25-AUG-2011**

m/z	signal intensity
231.1	**2,705.6**

Triaromatic steroids



m/z	signal intensity
253.2	**1,555.84**

Monoaromatic steroids