

#	Rt.min.	m/z	Rf.	Name	Height	Amount
					ng/mg	
Diterpanes:						
2)	34.16	191.2	s1	19/3	818	9
3)	36.14	191.2	s1	20/3	619	7
4)	38.19	191.2	s1	21/3	968	11
5)	42.15	191.2	s1	23/3	1708	19
6)	43.28	191.2	s1	24/3	1272	14
7)	45.56	191.2	s1	25/3	529	6
8)	47.11	191.2	s1	24/4	1130	13
9)	47.20	191.2	s1	26/3R	497	6
10)	47.34	191.2	s1	26/3S	458	5
11)	50.87	191.2	s1	28/3R	596	7
12)	51.12	191.2	s1	28/3S	473	5
13)	51.90	191.2	s1	29/3R	743	8
14)	52.20	191.2	s1	29/3S	704	8
Triterpanes:						
15)	53.08	191.2	s1	27Ts	3799	43
16)	53.31	177.15	s1	25nor28ab	3351	38
17)	53.76	191.2	s1	27Tm	3281	37
18)	54.13	177.15	s1	25nor29ab	1802	21
19)	54.20	191.2	s1	27b	649	7
20)	55.32	191.2	s1	28ab	4614	53
21)	55.53	177.15	s1	25nor30ab	1713	20
22)	56.02	191.2	s1	29ab	9118	104
23)	56.13	191.2	s1	29Ts	3631	41
24)	56.37	191.2	s1	30D	2224	25
25)	56.82	191.2	s1	29ba	2006	23
26)	57.40	191.2	s2	30ab	22664	166
27)	57.74	191.2	s1	30D13	1150	13
28)	58.02	191.2	s2	30ba	2316	17
29)	58.99	191.2	s1	31abS	8152	93
30)	59.18	191.2	s1	31abR	6123	70
31)	59.52	191.2	s1	30G	1038	12
32)	59.72	191.2	s1	31ba	1210	14
33)	60.22	191.2	s1	32abS	5856	67
34)	60.49	191.2	s1	32abR	4268	49
35)	61.66	191.2	s1	33abS	5181	59
36)	62.03	191.2	s1	33abR	3376	38
37)	63.22	191.2	s1	34abS	2901	33
38)	63.73	191.2	s1	34abR	1862	21
39)	65.01	191.2	s1	35abS	2269	26
40)	65.75	191.2	s1	35abR	1562	18

Saturated biomarkers

GC/MS detection HP-6890/5973

Compound data



Norsk Hydro E&P Research Centre, Bergen, Norway
Petroleum Geochemistry Laboratories

Data file name: NSO1_13S.D
Sample name: nso1_13 ref.sat
Data File Path: C:\HPCHEM\1\DATAWAM_BAS

Misc. info.:

Vial no.: 1
Method: MSD_S_E2
Operator: ANNE-KARIN
Date: 7 Dec 2000 2:52

Response curve y = ax

Response factor groups: s1...s3, responses as defined in method

#	Rt.min.	m/z	Rf.	Name	Height	Amount
					ng/mg	
Steranes:						
41)	38.68	217.2	s3	21aa	1762	29
42)	40.35	217.2	s3	21bb	2126	35
43)	40.47	217.2	s3	22aa	1442	24
44)	42.72	217.2	s3	22bb	1345	22
45)	49.04	217.2	s3	27dbS	4128	68
46)	49.68	217.2	s3	27dbR	2425	40
47)	52.04	218.2	s3	27bbR	3297	54
48)	52.19	218.2	s3	27bbS	2335	38
49)	52.60	217.2	s3	27aaR	1418	23
50)	53.79	218.2	s3	28bbR	1915	32
51)	53.93	218.2	s3	28bbS	2393	39
52)	54.92	217.2	s3	29aaS	1275	21
53)	55.21	218.2	s3	29bbR	2663	44
54)	55.32	218.2	s3	29bbS	2671	44
55)	55.92	217.2	s3	29aaR	1435	24
56)	56.39	218.2	s3	30bbR	1094	18
57)	56.45	218.2	s3	30bbS	1042	17

Saturated biomarkers

GC/MS detection HP-6890/5973

Ratios, from heights and amounts



Norsk Hydro E&P Research Centre, Bergen, Norway
Petroleum Geochemistry Laboratories

Data file name: NSO1_13S.D
Sample name: nso1_13 ref.sat
Data File Path: C:\HPCHEM\1\DATA\NAM_BAS\
Misc. info.:

Vial no.: 1
Method: MSD_S_E2
Operator: ANNE-KARIN
Date: 7 Dec 2000 2:52

Terpane ratios, heights and amounts

		Height	Amount
$100 \cdot ((\text{sum}20-25)/3+26/3(R+S)) / ((\text{sum}20-25)/3+26/3(R+S)+27(Ts+Tm)+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%Tri	6	7
$100 \cdot 20/3 / ((\text{sum}20-25)/3+26/3(R+S))$	%20/3	10	10
$100 \cdot 23/3 / (23/3+24/3+25/3)$	%23/3	49	49
$100 \cdot 24/4 / (24/4+24/3+25/3)$	%24/4	39	39
$100 \cdot Ts / (Ts+Tm)$	%27Ts	54	54
$100 \cdot 28ab / (28ab+30ab)$	%28ab	17	24
$100 \cdot 29Ts / (29Ts+29ab)$	%29Ts	28	28
$100 \cdot 25nor30ab / (25nor30ab+30ab)$	%25nor30ab	7	11
$100 \cdot 29ab / (29ab+30ab)$	%29ab	29	38
$100 \cdot 30ba / (30ba+30ab)$	%30ba	9	9
$100 \cdot 30D / (30D+30ab)$	%30D	9	13
$100 \cdot 30G / (30G+30ab)$	%30G	4	7
$100 \cdot 32abS / (32ab(S+R))$	%32abS	58	58
$100 \cdot 35ab(S+R) / (34-35ab(S+R))$	%35ab	45	45
$100 \cdot (27Ts+27Tm) / (27Ts+27Tm+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%27HOP	8	9
$100 \cdot (28ab) / (27Ts+27Tm+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%28HOP	5	6
$100 \cdot (29ab+ba) / (27Ts+27Tm+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%29HOP	12	14
$100 \cdot (30ab+ba) / (27Ts+27Tm+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%30HOP	28	20
$100 \cdot 31ab(S+R) / (27Ts+27Tm+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%31HOP	16	18
$100 \cdot 32ab(S+R) / (27Ts+27Tm+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%32HOP	11	13
$100 \cdot 33ab(S+R) / (27Ts+27Tm+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%33HOP	10	11
$100 \cdot 34ab(S+R) / (27Ts+27Tm+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%34HOP	5	6
$100 \cdot 35ab(S+R) / (27Ts+27Tm+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%35HOP	4	5

Sterane ratios

$100 \cdot (21+22)bb / ((21+22)bb+(27+28+29+30)bb(R+S))$	%Preg	17	17
$100 \cdot 29aaS / 29aa(R+S)$	%29aaS	47	47
$100 \cdot 29bb(R+S) / (29bb(R+S)+29aa(S+R))$	%29bb	66	66
$100 \cdot 27db(S+R) / ((27db(S+R)+27bb(R+S))$	%27dia	54	54
$100 \cdot 27bb(R+S) / (27+28+29+30)bb(R+S)$	%27STER	32	32
$100 \cdot 28bb(R+S) / (27+28+29+30)bb(R+S)$	%28STER	25	25
$100 \cdot 29bb(R+S) / (27+28+29+30)bb(R+S)$	%29STER	31	31
$100 \cdot 30bb(R+S) / (27+28+29+30)bb(R+S)$	%30STER	12	12

Hopanes/Steranes ratio-2 (only bb steranes)

Ho/St2 5 3

Appendix G:

GC- MSD of the C15+ aromatic hydrocarbons in core samples

#	Rt.min.	m/z	Rf.	Name	Height	Amount ng/mg
Internal standard (if added):						
14)	11.88	136		d8N	19483	41
16)	18.17	164		d10BP	21921	36
59)	29.75	188		d10P	27748	41
79)	45.22	240		d12C	12807	41
Aryl isoprenoids:						
1)	20.27	133	0	C13AI	11	
2)	22.09	133	0	C14AI	9	
3)	26.36	133	0	C15AI	9	
4)	28.77	133	0	C16AI	7	
5)	30.76	133	0	C17AI	7	
6)	33.78	133	0	C18AI	6	
7)	34.83	133	0	C19AI	30	
8)	37.77	133	0	C20AI	3	
9)	39.71	133	0	C21AI	3	
10)	42.75	133	0	C22AI	9	
11)	44.76	133	0	C23AI	3	
12)	55.71	133	0	C30AI	12	
13)	56.74	133	0	C31AI	12	
Naphthalenes:						
15)	11.96	128	a1	N	1049	2
17)	15.55	142	a2	2-MN	1352	2
18)	16.10	142	a2	1-MN	816	1
19)	18.74	156	a3	2-EN	85	0
20)	18.86	156	a3	1-EN	50	0
21)	19.08	156	a3	2.6+2.7-DMN	302	0
22)	19.54	156	a3	1.3+1.7-DMN	482	1
23)	19.64	156	a3	1.6-DMN	295	0
24)	20.14	156	a3	2.3+1.4-DMN	246	0
25)	20.25	156	a3	1.5-DMN	125	0
26)	20.63	156	a3	1.2-DMN	92	0
27)	22.31	170	a4	C3-N-1	32	0
28)	22.67	170	a4	C3-N-2	29	0
29)	22.79	170	a4	1.3.7-TMN	125	0
30)	22.93	170	a4	1.3.6-TMN	184	0
31)	23.41	170	a4	1.3.5+1.4.6-TMN	259	0
32)	23.50	170	a4	2.3.6-TMN	119	0
33)	23.90	170	a4	1.6.7+1.2.7-TMN	123	0
34)	23.96	170	a4	1.2.6-TMN	122	0
35)	24.41	170	a4	1.2.4-TMN	49	0
36)	24.61	170	a4	1.2.5-TMN	280	0
Biphenyls:						
37)	18.28	154	a5	BP	230	0
38)	21.58	168	a5	3-MBP	163	0
39)	21.84	168	a5	4-MBP	60	0
40)	21.89	182	a4	2.3'-DMBP	9	0
41)	22.09	182	a4	2.5-DMBP	6	0
42)	22.26	182	a4	2.4+2.4'-DMBP	8	0
43)	22.90	182	a4	2.3-DMBP	25	0
44)	24.27	182	a4	3-EBP	19	0
45)	24.60	182	a4	3.5-DMBP	29	0
46)	24.71	182	a4	3.3'-DMBP	61	0
47)	24.81	182	a4	4-EBP	6	0
48)	24.99	182	a4	3.4'-DMBP	47	0
49)	25.21	182	a4	4.4'-DMBP	14	0
50)	25.77	182	a4	3.4-DMBP	24	0

Aromatic hydrocarbons

GC/MS detection HP-6890/5973

Compound data



Norsk Hydro E&P Research Centre, Bergen, Norway
Petroleum Geochemistry Laboratories

Data file name: 2988A.D
Sample name: 7216/11-1 S, 2988m ARO
Data File Path: C:\HPCHEM\1\DATA\7216\
Misc. info.:

Vial no.: 12
Method: MSD_A_E2
Operator: annex
Date: #VALUE!

Response curve: y = ax+b
Response factor groups: a1...a11, responses as defined in method

#	Rt.min.	m/z	Rf.	Name	Height	Amount ng/mg
Dibenzofuranes:						
51)	22.48	168	a5	DBF	115	0
52)	25.57	182	a4	MDBF-1	96	0
53)	25.93	182	a4	MDBF-2	85	0
54)	26.23	182	a4	MDBF-3	76	0
Fluorenes:						
55)	24.44	166	a6	F	165	0
56)	27.66	180	a6	C1-F-1	70	0
57)	27.89	180	a6	C1-F-2	235	0
58)	28.20	180	a6	1-MF	46	0
Dibenzothiophenes:						
60)	29.15	184	a7	DBT	67	0
61)	31.76	198	a7	4-MDBT	48	0
62)	32.30	198	a7	3+2-MDBT	15	0
63)	32.86	198	a7	1-MDBT	14	0
Phenanthrenes:						
64)	29.87	178	a8	P	1088	1
65)	32.81	192	a9	3-MP	190	0
66)	32.95	192	a9	2-MP	219	0
67)	33.43	192	a9	9-MP	444	1
68)	33.55	192	a9	1-MP	333	0
69)	35.53	206	a10	2EP+9EP+3.6-DMP	53	0
70)	35.76	206	a10	1EP	54	0
71)	35.86	206	a10	2.6+2.7+3.5-DMP	34	0
72)	36.20	206	a10	1.3+2.10+3.9+3.10-DMI	222	0
73)	36.35	206	a10	1.6+2.5+2.9-DMP	136	0
74)	36.49	206	a10	1.7-DMP	162	0
75)	36.64	206	a10	2.3-DMP	42	0
76)	36.74	206	a10	1.9+4.9+4.10-DMP	70	0
77)	37.04	206	a10	1.8-DMP	40	0
Retene:						
78)	40.36	219	a8	Retene	1375	2
Triaromatic steroids:						
80)	44.83	231	a11	20TA	26	0
81)	46.70	231	a11	21TA	33	0
82)	53.67	231	a11	S26TA	40	0
83)	54.86	231	a11	R26TA/S27TA	113	0
84)	55.86	231	a11	S28TA	57	0
85)	56.37	231	a11	R27TA	51	0
86)	57.58	231	a11	R28TA	61	0

Aromatic hydrocarbons

GC/MS detection HP-6890/5973

Ratios, from heights and amounts



Norsk Hydro E&P Research Centre, Bergen, Norway
 Petroleum Geochemistry Laboratories

Data file name: 2988A.D
 Sample name: 7216/11-1 S, 2988m ARO
 Data File Path: C:\HPCHEM\1\DATA\7216\
 Misc. info.:

Vial no.: 12
 Method: MSD_A_E2
 Operator: annex
 Date: #VALUE!

Aromatic HC ratios, heights and amounts		Height	Amount
Naphthalene	Naphthalene	1049	2
C1 Naphthanes	Sum C1 Naphthanes	2168	3
C2 Naphthanes	Sum C2 Naphthanes	1677	2
C3 Naphthanes	Sum C3 Naphthanes	1322	2
Phenanthrene	Phenanthrene	1088	1
C1 Phenanthrenes	Sum C1 Phenanthrenes	1186	2
C2 Phenanthrenes	Sum C2 Phenanthrenes	813	1
$3/2 \cdot (3MP+2MP)/(P+9MP+1MP)$	MPI1	0.3	0.4
$(3MP+2MP)/(3MP+2MP+9MP+1MP)$	F1	0.3	0.3
$2MP/(3MP+2MP+9MP+1MP)$	F2	0.2	0.2
$(2.6+2.7)DMN/1.5DMN$	DNR	2.4	2.4
$100 \cdot 20TA/(20TA+S28TA+R28TA)$	%-TAS'n	18.1	18.1
DBT/P	DBT/P	0.1	0.0
F/P	F/P	0.2	0.2
BP/1.6DMN	BP/1.6DMN	0.8	0.5
2MN/1MN	2MN/1MN	1.7	1.7
2EN/1EN	2EN/1EN	1.7	1.7
4MDBT/1MDBT	4MDBT/1MDBT	3.4	3.4

#	Rt.min.	m/z	Rf.	Name	Height	Amount
						ng/mg
Internal standard (if added):						
14)	11.86	136		d8N	18303	48
16)	18.17	164		d10BP	20866	42
59)	29.74	188		d10P	27595	48
79)	45.22	240		d12C	12615	48
Aryl isoprenoids:						
1)	20.25	133	0	C13AI	20	
2)	22.06	133	0	C14AI	28	
3)	26.36	133	0	C15AI	16	
4)	28.76	133	0	C16AI	25	
5)	30.79	133	0	C17AI	15	
6)	33.78	133	0	C18AI	14	
7)	34.81	133	0	C19AI	53	
8)	37.77	133	0	C20AI	9	
9)	39.73	133	0	C21AI	8	
10)	42.73	133	0	C22AI	10	
11)	44.75	133	0	C23AI	6	
12)	55.73	133	0	C30AI	8	
13)	56.77	133	0	C31AI	7	
Naphthalenes:						
15)	11.95	128	a1	N	672	2
17)	15.54	142	a2	2-MN	1084	2
18)	16.11	142	a2	1-MN	806	2
19)	18.74	156	a3	2-EN	209	0
20)	18.85	156	a3	1-EN	90	0
21)	19.06	156	a3	2.6+2.7-DMN	938	2
22)	19.53	156	a3	1.3+1.7-DMN	1429	3
23)	19.64	156	a3	1.6-DMN	1018	2
24)	20.14	156	a3	2.3+1.4-DMN	626	1
25)	20.25	156	a3	1.5-DMN	305	1
26)	20.62	156	a3	1.2-DMN	260	0
27)	22.30	170	a4	C3-N-1	140	0
28)	22.67	170	a4	C3-N-2	157	0
29)	22.79	170	a4	1.3.7-TMN	712	1
30)	22.93	170	a4	1.3.6-TMN	954	2
31)	23.41	170	a4	1.3.5+1.4.6-TMN	813	1
32)	23.48	170	a4	2.3.6-TMN	688	1
33)	23.90	170	a4	1.6.7+1.2.7-TMN	548	1
34)	23.96	170	a4	1.2.6-TMN	405	1
35)	24.39	170	a4	1.2.4-TMN	118	0
36)	24.60	170	a4	1.2.5-TMN	535	1
Biphenyls:						
37)	18.27	154	a5	BP	455	1
38)	21.57	168	a5	3-MBP	898	1
39)	21.83	168	a5	4-MBP	369	0
40)	21.88	182	a4	2.3'-DMBP	27	0
41)	22.08	182	a4	2.5-DMBP	12	0
42)	22.26	182	a4	2.4+2.4'-DMBP	30	0
43)	22.89	182	a4	2.3-DMBP	73	0
44)	24.26	182	a4	3-EBP	111	0
45)	24.60	182	a4	3.5-DMBP	174	0
46)	24.69	182	a4	3.3'-DMBP	430	1
47)	24.81	182	a4	4-EBP	44	0
48)	24.99	182	a4	3.4'-DMBP	350	1
49)	25.21	182	a4	4.4'-DMBP	79	0
50)	25.76	182	a4	3.4-DMBP	175	0

Aromatic hydrocarbons

GC/MS detection HP-6890/5973

Compound data



Norsk Hydro E&P Research Centre, Bergen, Norway
Petroleum Geochemistry Laboratories

Data file name: 2990A.D
Sample name: 7216/11-1 S, 2990m ARO
Data File Path: C:\HPCHEM\1\DATA\7216\

Misc. info.:

Vial no.: 13
Method: MSD_A_E2
Operator: annex
Date: #VALUE!

Response curve: y = ax+b

Response factor groups: a1...a11, responses as defined in method

#	Rt.min.	m/z	Rf.	Name	Height	Amount
						ng/mg
Dibenzofuranes:						
51)	22.47	168	a5	DBF	305	0
52)	25.56	182	a4	MDBF-1	351	1
53)	25.92	182	a4	MDBF-2	324	1
54)	26.22	182	a4	MDBF-3	233	0
Fluorenes:						
55)	24.43	166	a6	F	497	1
56)	27.65	180	a6	C1-F-1	219	0
57)	27.89	180	a6	C1-F-2	777	1
58)	28.20	180	a6	1-MF	136	0
Dibenzothiophenes:						
60)	29.14	184	a7	DBT	182	0
61)	31.76	198	a7	4-MDBT	161	0
62)	32.28	198	a7	3+2-MDBT	47	0
63)	32.86	198	a7	1-MDBT	45	0
Phenanthrenes:						
64)	29.86	178	a8	P	2916	4
65)	32.80	192	a9	3-MP	713	1
66)	32.94	192	a9	2-MP	759	1
67)	33.42	192	a9	9-MP	1216	2
68)	33.55	192	a9	1-MP	955	2
69)	35.52	206	a10	2EP+9EP+3.6-DMP	149	0
70)	35.75	206	a10	1EP	175	0
71)	35.85	206	a10	2.6+2.7+3.5-DMP	108	0
72)	36.19	206	a10	1.3+2.10+3.9+3.10-DMI	610	1
73)	36.33	206	a10	1.6+2.5+2.9-DMP	371	1
74)	36.47	206	a10	1.7-DMP	424	1
75)	36.62	206	a10	2.3-DMP	107	0
76)	36.73	206	a10	1.9+4.9+4.10-DMP	174	0
77)	37.04	206	a10	1.8-DMP	107	0
Retene:						
78)	40.35	219	a8	Retene	2991	4
Triaromatic steroids:						
80)	44.83	231	a11	20TA	38	0
81)	46.68	231	a11	21TA	36	0
82)	53.65	231	a11	S26TA	37	0
83)	54.85	231	a11	R26TA/S27TA	93	0
84)	55.85	231	a11	S28TA	46	0
85)	56.35	231	a11	R27TA	42	0
86)	57.58	231	a11	R28TA	41	0

Aromatic hydrocarbons

GC/MS detection HP-6890/5973

Ratios, from heights and amounts



Norsk Hydro E&P Research Centre, Bergen, Norway
 Petroleum Geochemistry Laboratories

Data file name: 2990A.D
 Sample name: 7216/11-1 S, 2990m ARO
 Data File Path: C:\HPCHEM\1\DATA\7216\
 Misc. info.:

Vial no.: 13
 Method: MSD_A_E2
 Operator: annek
 Date: #VALUE!

Aromatic HC ratios, heights and amounts		Height	Amount
Naphthalene	Naphthalene	672	2
C1 Naphthanes	Sum C1 Naphthanes	1890	4
C2 Naphthanes	Sum C2 Naphthanes	4875	9
C3 Naphthanes	Sum C3 Naphthanes	5070	9
Phenanthrene	Phenanthrene	2916	4
C1 Phenanthrenes	Sum C1 Phenanthrenes	3643	6
C2 Phenanthrenes	Sum C2 Phenanthrenes	2225	4
$3/2 \cdot (3MP+2MP)/(P+9MP+1MP)$	MPI1	0.4	0.5
$(3MP+2MP)/(3MP+2MP+9MP+1MP)$	F1	0.4	0.4
$2MP/(3MP+2MP+9MP+1MP)$	F2	0.2	0.2
$(2.6+2.7)DMN/1.5DMN$	DNR	3.1	3.1
$100 \cdot 20TA/(20TA+S28TA+R28TA)$	%-TAS'n	30.4	30.4
DBT/P	DBT/P	0.1	0.0
F/P	F/P	0.2	0.2
BP/1.6DMN	BP/1.6DMN	0.4	0.3
2MN/1MN	2MN/1MN	1.3	1.3
2EN/1EN	2EN/1EN	2.3	2.3
4MDBT/1MDBT	4MDBT/1MDBT	3.6	3.6

#	Rt.min.	m/z	Rf.	Name	Height	Amount
						ng/mg
Internal standard (if added):						
14)	11.87	136		d8N	9154	37
16)	18.15	164		d10BP	9727	33
59)	29.74	188		d10P	11884	37
79)	45.21	240		d12C	5962	37
Aryl isoprenoids:						
1)	20.25	133	0	C13AI	16	
2)	22.05	133	0	C14AI	22	
3)	26.50	133	0	C15AI	126	
4)	28.76	133	0	C16AI	51	
5)	30.79	133	0	C17AI	41	
6)	33.76	133	0	C18AI	74	
7)	34.81	133	0	C19AI	667	
8)	37.78	133	0	C20AI	91	
9)	39.81	133	0	C21AI	250	
10)	42.74	133	0	C22AI	99	
11)	44.74	133	0	C23AI	23	
12)	55.71	133	0	C30AI	14	
13)	56.71	133	0	C31AI	13	
Naphthalenes:						
15)	11.95	128	a1	N	1011	4
17)	15.54	142	a2	2-MN	1086	3
18)	16.09	142	a2	1-MN	810	3
19)	18.73	156	a3	2-EN	144	0
20)	18.85	156	a3	1-EN	67	0
21)	19.08	156	a3	2.6+2.7-DMN	577	2
22)	19.53	156	a3	1.3+1.7-DMN	895	3
23)	19.63	156	a3	1.6-DMN	621	2
24)	20.13	156	a3	2.3+1.4-DMN	576	2
25)	20.25	156	a3	1.5-DMN	310	1
26)	20.62	156	a3	1.2-DMN	222	1
27)	22.30	170	a4	C3-N-1	119	0
28)	22.67	170	a4	C3-N-2	124	0
29)	22.79	170	a4	1.3.7-TMN	584	2
30)	22.92	170	a4	1.3.6-TMN	744	2
31)	23.40	170	a4	1.3.5+1.4.6-TMN	881	3
32)	23.47	170	a4	2.3.6-TMN	595	2
33)	23.89	170	a4	1.6.7+1.2.7-TMN	552	2
34)	23.95	170	a4	1.2.6-TMN	456	1
35)	24.40	170	a4	1.2.4-TMN	165	1
36)	24.60	170	a4	1.2.5-TMN	904	3
Biphenyls:						
37)	18.27	154	a5	BP	379	1
38)	21.57	168	a5	3-MBP	594	1
39)	21.83	168	a5	4-MBP	254	1
40)	21.88	182	a4	2.3'-DMBP	19	0
41)	22.08	182	a4	2.5-DMBP	13	0
42)	22.26	182	a4	2.4+2.4'-DMBP	22	0
43)	22.89	182	a4	2.3-DMBP	63	0
44)	24.26	182	a4	3-EBP	91	0
45)	24.60	182	a4	3.5-DMBP	147	0
46)	24.69	182	a4	3.3'-DMBP	390	1
47)	24.80	182	a4	4-EBP	34	0
48)	24.99	182	a4	3.4'-DMBP	304	1
49)	25.21	182	a4	4.4'-DMBP	84	0
50)	25.76	182	a4	3.4-DMBP	161	0

Aromatic hydrocarbons

GC/MS detection HP-6890/5973

Compound data



Norsk Hydro E&P Research Centre, Bergen, Norway
Petroleum Geochemistry Laboratories

Data file name: 2991_10A.D
Sample name: 7216/11-1 S, 2991,10m ARO
Data File Path: C:\HPCHEM\1\DATA\7216\
Misc. info.:

Vial no.: 14
Method: MSD_A_E2
Operator: annex
Date: #VALUE!

Response curve: y = ax+b
Response factor groups: a1...a11, responses as defined in method

#	Rt.min.	m/z	Rf.	Name	Height	Amount
						ng/mg
Dibenzofuranes:						
51)	22.47	168	a5	DBF	327	1
52)	25.55	182	a4	MDBF-1	406	1
53)	25.92	182	a4	MDBF-2	397	1
54)	26.22	182	a4	MDBF-3	329	1
Fluorenes:						
55)	24.43	166	a6	F	608	2
56)	27.65	180	a6	C1-F-1	317	1
57)	27.88	180	a6	C1-F-2	1157	3
58)	28.19	180	a6	1-MF	186	0
Dibenzothiophenes:						
60)	29.14	184	a7	DBT	250	0
61)	31.75	198	a7	4-MDBT	288	0
62)	32.28	198	a7	3+2-MDBT	87	0
63)	32.85	198	a7	1-MDBT	83	0
Phenanthrenes:						
64)	29.86	178	a8	P	4409	11
65)	32.80	192	a9	3-MP	1347	4
66)	32.94	192	a9	2-MP	1587	5
67)	33.41	192	a9	9-MP	2366	7
68)	33.54	192	a9	1-MP	1888	6
69)	35.52	206	a10	2EP+9EP+3.6-DMP	326	1
70)	35.75	206	a10	1EP	441	1
71)	35.85	206	a10	2.6+2.7+3.5-DMP	272	1
72)	36.18	206	a10	1.3+2.10+3.9+3.10-DMP	1605	5
73)	36.33	206	a10	1.6+2.5+2.9-DMP	917	3
74)	36.47	206	a10	1.7-DMP	988	3
75)	36.62	206	a10	2.3-DMP	285	1
76)	36.73	206	a10	1.9+4.9+4.10-DMP	469	1
77)	37.04	206	a10	1.8-DMP	234	1
Retene:						
78)	40.35	219	a8	Retene	5781	15
Triaromatic steroids:						
80)	44.82	231	a11	20TA	134	0
81)	46.68	231	a11	21TA	150	0
82)	53.65	231	a11	S26TA	403	1
83)	54.86	231	a11	R26TA/S27TA	1353	2
84)	55.86	231	a11	S28TA	527	1
85)	56.36	231	a11	R27TA	640	1
86)	57.58	231	a11	R28TA	532	1

Aromatic hydrocarbons

GC/MS detection: HP-6890/5973

Ratios, from heights and amounts



Norsk Hydro E&P Research Centre, Bergen, Norway
 Petroleum Geochemistry Laboratories

Data file name: 2991_10A.D
 Sample name: 7216/11-1 S, 2991,10m ARO
 Data File Path: C:\HPCHEM\1\DATA\7216\1
 Misc. info.:

Vial no.: 14
 Method: MSD_A_E2
 Operator: annek
 Date: #VALUE!

Aromatic HC ratios, heights and amounts		Height	Amount
Naphthalene	Naphthalene	1011	4
C1 Naphthanes	Sum C1 Naphthanes	1896	6
C2 Naphthanes	Sum C2 Naphthanes	3412	10
C3 Naphthanes	Sum C3 Naphthanes	5124	16
Phenanthrene	Phenanthrene	4409	11
C1 Phenanthrenes	Sum C1 Phenanthrenes	7188	22
C2 Phenanthrenes	Sum C2 Phenanthrenes	5537	16
$3/2 \cdot (3MP+2MP)/(P+9MP+1MP)$	MPI1	0.5	0.5
$(3MP+2MP)/(3MP+2MP+9MP+1MP)$	F1	0.4	0.4
$2MP/(3MP+2MP+9MP+1MP)$	F2	0.2	0.2
$(2.6+2.7)DMN/1.5DMN$	DNR	1.9	1.9
$100 \cdot 20TA/(20TA+S28TA+R28TA)$	%-TAS'n	11.2	11.2
DBT/P	DBT/P	0.1	0.0
F/P	F/P	0.1	0.1
BP/1.6DMN	BP/1.6DMN	0.6	0.4
2MN/1MN	2MN/1MN	1.3	1.3
2EN/1EN	2EN/1EN	2.1	2.1
4MDBT/1MDBT	4MDBT/1MDBT	3.5	3.5

#	Rt.min.	m/z	Rf.	Name	Height	Amount
						ng/mg
Internal standard (if added):						
14)	11.87	136		d8N	35779	47
16)	18.16	164		d10BP	40743	41
59)	29.76	188		d10P	57120	47
79)	45.30	240		d12C	36204	47
Aryl isoprenoids:						
1)	20.26	133	0	C13AI	920	
2)	22.23	133	0	C14AI	1162	
3)	26.52	133	0	C15AI	5770	
4)	28.78	133	0	C16AI	1350	
5)	30.82	133	0	C17AI	1655	
6)	33.80	133	0	C18AI	3803	
7)	34.68	133	0	C19AI	5949	
8)	37.84	133	0	C20AI	8567	
9)	39.75	133	0	C21AI	2125	
10)	42.82	133	0	C22AI	7484	
11)	44.56	133	0	C23AI	9770	
12)	55.67	133	0	C30AI	2914	
13)	56.86	133	0	C31AI	2939	
Naphthalenes:						
15)	11.95	128	a1	N	924	1
17)	15.54	142	a2	2-MN	1818	2
18)	16.10	142	a2	1-MN	1953	2
19)	18.73	156	a3	2-EN	974	1
20)	18.85	156	a3	1-EN	666	1
21)	19.07	156	a3	2,6+2,7-DMN	2984	3
22)	19.53	156	a3	1,3+1,7-DMN	7288	7
23)	19.63	156	a3	1,6-DMN	4358	4
24)	20.13	156	a3	2,3+1,4-DMN	8746	8
25)	20.25	156	a3	1,5-DMN	5603	5
26)	20.62	156	a3	1,2-DMN	3228	3
27)	22.31	170	a4	C3-N-1	1619	1
28)	22.67	170	a4	C3-N-2	1093	1
29)	22.79	170	a4	1,3,7-TMN	8461	8
30)	22.94	170	a4	1,3,6-TMN	8261	8
31)	23.41	170	a4	1,3,5+1,4,6-TMN	18365	17
32)	23.49	170	a4	2,3,6-TMN	5942	5
33)	23.89	170	a4	1,6,7+1,2,7-TMN	7537	7
34)	23.97	170	a4	1,2,6-TMN	9831	9
35)	24.40	170	a4	1,2,4-TMN	4057	4
36)	24.61	170	a4	1,2,5-TMN	24403	22
Biphenyls:						
37)	18.28	154	a5	BP	944	1
38)	21.57	168	a5	3-MBP	1597	1
39)	21.83	168	a5	4-MBP	653	0
40)	21.88	182	a4	2,3'-DMBP	241	0
41)	22.10	182	a4	2,5-DMBP	291	0
42)	22.26	182	a4	2,4+2,4'-DMBP	397	0
43)	22.90	182	a4	2,3-DMBP	335	0
44)	24.28	182	a4	3-EBP	420	0
45)	24.60	182	a4	3,5-DMBP	373	0
46)	24.70	182	a4	3,3'-DMBP	679	1
47)	24.82	182	a4	4-EBP	180	0
48)	25.00	182	a4	3,4'-DMBP	612	1
49)	25.21	182	a4	4,4'-DMBP	777	1
50)	25.81	182	a4	3,4-DMBP	317	0

Aromatic hydrocarbons

GC/MS detection HP-6890/5973

Compound data



Norsk Hydro E&P Research Centre, Bergen, Norway
Petroleum Geochemistry Laboratories

Data file name: 2991_25A.D
Sample name: 7216/11-1 S, 2991,25m ARO
Data File Path: C:\HPCHEM\1\DATA\7216\
Misc. info.:
Vial no.: 15
Method: MSD_A_E2
Operator: annex
Date: #VALUE!
Response curve: y = ax+b
Response factor groups: a1...a11, responses as defined in method

#	Rt.min.	m/z	Rf.	Name	Height	Amount
						ng/mg
Dibenzofuranes:						
51)	22.47	168	a5	DBF	2421	2
52)	25.56	182	a4	MDBF-1	4999	5
53)	25.93	182	a4	MDBF-2	4778	4
54)	26.23	182	a4	MDBF-3	3997	4
Fluorenes:						
55)	24.43	166	a6	F	6660	5
56)	27.67	180	a6	C1-F-1	4130	3
57)	27.91	180	a6	C1-F-2	14144	11
58)	28.22	180	a6	1-MF	2826	2
Dibenzothiophenes:						
60)	29.15	184	a7	DBT	3046	1
61)	31.78	198	a7	4-MDBT	1888	0
62)	32.29	198	a7	3+2-MDBT	675	0
63)	32.89	198	a7	1-MDBT	565	0
Phenanthrenes:						
64)	29.87	178	a8	P	34364	24
65)	32.83	192	a9	3-MP	5860	5
66)	32.97	192	a9	2-MP	7140	6
67)	33.46	192	a9	9-MP	17336	14
68)	33.58	192	a9	1-MP	13804	11
69)	35.56	206	a10	2EP+9EP+3,6-DMP	1561	1
70)	35.79	206	a10	1EP	1299	1
71)	35.89	206	a10	2,6+2,7+3,5-DMP	698	1
72)	36.23	206	a10	1,3+2,10+3,9+3,10-DMI	4264	3
73)	36.38	206	a10	1,6+2,5+2,9-DMP	3453	3
74)	36.52	206	a10	1,7-DMP	5918	5
75)	36.67	206	a10	2,3-DMP	1046	1
76)	36.78	206	a10	1,9+4,9+4,10-DMP	1303	1
77)	37.08	206	a10	1,8-DMP	1505	1
Retene:						
78)	40.44	219	a8	Retene	192407	132
Triaromatic steroids:						
80)	44.90	231	a11	20TA	518	0
81)	46.77	231	a11	21TA	798	0
82)	53.79	231	a11	S26TA	23582	7
83)	54.99	231	a11	R26TA/S27TA	77494	22
84)	55.96	231	a11	S28TA	31857	9
85)	56.47	231	a11	R27TA	35790	10
86)	57.67	231	a11	R28TA	27775	8

Aromatic hydrocarbons

GC/MS detection HP-6890/5973

Ratios, from heights and amounts



Norsk Hydro E&P Research Centre, Bergen, Norway
Petroleum Geochemistry Laboratories

Data file name: 2991_25A.D
Sample name: 7216/11-1 S, 2991,25m ARO
Data File Path: C:\HPCHEM\1\DATA\7216\
Misc. info.:

Vial no.: 15
Method: MSD_A_E2
Operator: annex
Date: #VALUE!

Aromatic HC ratios, heights and amounts		Height	Amount
Naphthalene	Naphthalene	924	1
C1 Naphthanes	Sum C1 Naphthanes	3771	4
C2 Naphthanes	Sum C2 Naphthanes	33847	31
C3 Naphthanes	Sum C3 Naphthanes	89569	82
Phenanthrene	Phenanthrene	34364	24
C1 Phenanthrenes	Sum C1 Phenanthrenes	44140	36
C2 Phenanthrenes	Sum C2 Phenanthrenes	21047	16
$3/2 \cdot (3MP+2MP)/(P+9MP+1MP)$	MPI1	0.3	0.3
$(3MP+2MP)/(3MP+2MP+9MP+1MP)$	F1	0.3	0.3
$2MP/(3MP+2MP+9MP+1MP)$	F2	0.2	0.2
$(2.6+2.7)DMN/1.5DMN$	DNR	0.5	0.5
$100 \cdot 20TA/(20TA+S28TA+R28TA)$	%-TAS'n	0.9	0.9
DBT/P	DBT/P	0.1	0.0
F/P	F/P	0.2	0.2
BP/1.6DMN	BP/1.6DMN	0.2	0.2
2MN/1MN	2MN/1MN	0.9	0.9
2EN/1EN	2EN/1EN	1.5	1.5
4MDBT/1MDBT	4MDBT/1MDBT	3.3	3.3

#	Rt.min.	m/z	Rf.	Name	Height	Amount ng/mg
Internal standard (if added):						
14)	11.86	136		d8N	20456	51
16)	18.15	164		d10BP	24202	45
59)	29.74	188		d10P	32520	51
79)	45.21	240		d12C	15284	51
Aryl isoprenoids:						
1)	20.25	133	0	C13AI	19	
2)	22.05	133	0	C14AI	27	
3)	26.41	133	0	C15AI	9	
4)	28.76	133	0	C16AI	33	
5)	30.79	133	0	C17AI	23	
6)	33.76	133	0	C18AI	49	
7)	34.80	133	0	C19AI	412	
8)	37.78	133	0	C20AI	56	
9)	39.81	133	0	C21AI	169	
10)	42.75	133	0	C22AI	76	
11)	44.77	133	0	C23AI	25	
12)	55.80	133	0	C30AI	157	
13)	56.74	133	0	C31AI	23	
Naphthalenes:						
15)	11.95	128	a1	N	1568	4
17)	15.54	142	a2	2-MN	2769	5
18)	16.09	142	a2	1-MN	1648	3
19)	18.73	156	a3	2-EN	353	1
20)	18.85	156	a3	1-EN	149	0
21)	19.06	156	a3	2.6+2.7-DMN	1522	2
22)	19.53	156	a3	1.3+1.7-DMN	2092	3
23)	19.63	156	a3	1.6-DMN	1513	2
24)	20.13	156	a3	2.3+1.4-DMN	1049	2
25)	20.25	156	a3	1.5-DMN	479	1
26)	20.62	156	a3	1.2-DMN	392	1
27)	22.30	170	a4	C3-N-1	198	0
28)	22.67	170	a4	C3-N-2	223	0
29)	22.79	170	a4	1.3.7-TMN	942	2
30)	22.92	170	a4	1.3.6-TMN	1339	2
31)	23.40	170	a4	1.3.5+1.4.6-TMN	1273	2
32)	23.48	170	a4	2.3.6-TMN	1091	2
33)	23.90	170	a4	1.6.7+1.2.7-TMN	816	1
34)	23.95	170	a4	1.2.6-TMN	648	1
35)	24.39	170	a4	1.2.4-TMN	205	0
36)	24.60	170	a4	1.2.5-TMN	1066	2
Biphenyls:						
37)	18.27	154	a5	BP	1243	1
38)	21.57	168	a5	3-MBP	1420	2
39)	21.83	168	a5	4-MBP	622	1
40)	21.88	182	a4	2.3'-DMBP	31	0
41)	22.08	182	a4	2.5-DMBP	23	0
42)	22.25	182	a4	2.4+2.4'-DMBP	35	0
43)	22.87	182	a4	2.3-DMBP	102	0
44)	24.26	182	a4	3-EBP	152	0
45)	24.60	182	a4	3.5-DMBP	228	0
46)	24.69	182	a4	3.3'-DMBP	602	1
47)	24.80	182	a4	4-EBP	67	0
48)	24.98	182	a4	3.4'-DMBP	496	1
49)	25.21	182	a4	4.4'-DMBP	145	0
50)	25.76	182	a4	3.4-DMBP	271	0

Aromatic hydrocarbons

GC/MS detection HP-6890/5973

Compound data



Norsk Hydro E&P Research Centre, Bergen, Norway
Petroleum Geochemistry Laboratories

Data file name: 2991_36A.D
Sample name: 7216/11-1 S, 2991,36m ARO
Data File Path: C:\HPCHEM\1\DATA\7216\
Misc. info.:

Vial no.: 16
Method: MSD_A_E2
Operator: annek
Date: #VALUE!

Response curve: y = ax+b
Response factor groups: a1...a11, responses as defined in method

#	Rt.min.	m/z	Rf.	Name	Height	Amount ng/mg
Dibenzofuranes:						
51)	22.47	168	a5	DBF	619	1
52)	25.54	182	a4	MDBF-1	621	1
53)	25.92	182	a4	MDBF-2	617	1
54)	26.22	182	a4	MDBF-3	443	1
Fluorenes:						
55)	24.43	166	a6	F	940	1
56)	27.65	180	a6	C1-F-1	384	1
57)	27.88	180	a6	C1-F-2	1395	2
58)	28.19	180	a6	1-MF	217	0
Dibenzothiophenes:						
60)	29.14	184	a7	DBT	441	0
61)	31.75	198	a7	4-MDBT	395	0
62)	32.28	198	a7	3+2-MDBT	124	0
63)	32.85	198	a7	1-MDBT	109	0
Phenanthrenes:						
64)	29.85	178	a8	P	5349	7
65)	32.80	192	a9	3-MP	1193	2
66)	32.94	192	a9	2-MP	1443	2
67)	33.41	192	a9	9-MP	1981	3
68)	33.54	192	a9	1-MP	1594	2
69)	35.52	206	a10	2EP+9EP+3.6-DMP	233	0
70)	35.74	206	a10	1EP	314	0
71)	35.84	206	a10	2.6+2.7+3.5-DMP	197	0
72)	36.18	206	a10	1.3+2.10+3.9+3.10-DMI	1011	1
73)	36.33	206	a10	1.6+2.5+2.9-DMP	584	1
74)	36.47	206	a10	1.7-DMP	735	1
75)	36.62	206	a10	2.3-DMP	192	0
76)	36.73	206	a10	1.9+4.9+4.10-DMP	293	0
77)	37.04	206	a10	1.8-DMP	168	0
Retene:						
78)	40.35	219	a8	Retene	4668	6
Triaromatic steroids:						
80)	44.82	231	a11	20TA	52	0
81)	46.70	231	a11	21TA	53	0
82)	53.65	231	a11	S26TA	300	0
83)	54.86	231	a11	R26TA/S27TA	1106	1
84)	55.85	231	a11	S28TA	413	0
85)	56.35	231	a11	R27TA	509	0
86)	57.56	231	a11	R28TA	390	0

Aromatic hydrocarbons

GC/MS detection HP-6890/5973

Ratios, from heights and amounts



Norsk Hydro E&P Research Centre, Bergen, Norway
 Petroleum Geochemistry Laboratories

Data file name: 2991_36A.D
 Sample name: 7216/11-1 S, 2991,36m ARO
 Data File Path: C:\HPCHEM\1\DATA\7216\
 Misc. info.:

Vial no.: 16
 Method: MSD_A_E2
 Operator: annex
 Date: #VALUE!

Aromatic HC ratios, heights and amounts		Height	Amount
Naphthalene	Naphthalene	1568	4
C1 Naphthanes	Sum C1 Naphthanes	4417	8
C2 Naphthanes	Sum C2 Naphthanes	7549	12
C3 Naphthanes	Sum C3 Naphthanes	7801	13
Phenanthrene	Phenanthrene	5349	7
C1 Phenanthrenes	Sum C1 Phenanthrenes	6211	9
C2 Phenanthrenes	Sum C2 Phenanthrenes	3727	5
$3/2 \cdot (3MP+2MP)/(P+9MP+1MP)$	MPI1	0.4	0.5
$(3MP+2MP)/(3MP+2MP+9MP+1MP)$	F1	0.4	0.4
$2MP/(3MP+2MP+9MP+1MP)$	F2	0.2	0.2
$(2.6+2.7)DMN/1.5DMN$	DNR	3.2	3.2
$100 \cdot 20TA/(20TA+S28TA+R28TA)$	%-TAS'n	6.1	6.1
DBT/P	DBT/P	0.1	0.0
F/P	F/P	0.2	0.2
BP/1.6DMN	BP/1.6DMN	0.8	0.6
2MN/1MN	2MN/1MN	1.7	1.7
2EN/1EN	2EN/1EN	2.4	2.4
4MDBT/1MDBT	4MDBT/1MDBT	3.6	3.6

#	Rt.min.	m/z	Rf.	Name	Height	Amount ng/mg
Internal standard (if added):						
14)	11,86	136		d8N	112521	39
16)	18,16	164		d10BP	129977	35
59)	29,76	188		d10P	132369	39
79)	45,32	240		d12C	76745	39
Aryl isoprenoids:						
1)	20,25	133	0	C13AI	754	
2)	22,23	133	0	C14AI	803	
3)	26,51	133	0	C15AI	3746	
4)	28,77	133	0	C16AI	1204	
5)	30,82	133	0	C17AI	1153	
6)	33,79	133	0	C18AI	2625	
7)	34,70	133	0	C19AI	4432	
8)	37,73	133	0	C20AI	1989	
9)	39,75	133	0	C21AI	1804	
10)	42,70	133	0	C22AI	5174	
11)	44,81	133	0	C23AI	656	
12)	55,69	133	0	C30AI	1838	
13)	56,65	133	0	C31AI	889	
Naphthalenes:						
15)	11,94	128	a1	N	7676	2
17)	15,53	142	a2	2-MN	8458	2
18)	16,08	142	a2	1-MN	7222	2
19)	18,72	156	a3	2-EN	1818	0
20)	18,84	156	a3	1-EN	1171	0
21)	19,07	156	a3	2,6+2,7-DMN	6318	2
22)	19,53	156	a3	1,3+1,7-DMN	12545	3
23)	19,63	156	a3	1,6-DMN	8531	2
24)	20,13	156	a3	2,3+1,4-DMN	11789	3
25)	20,24	156	a3	1,5-DMN	7068	2
26)	20,61	156	a3	1,2-DMN	4231	1
27)	22,30	170	a4	C3-N-1	1462	0
28)	22,67	170	a4	C3-N-2	1311	0
29)	22,79	170	a4	1,3,7-TMN	8326	2
30)	22,92	170	a4	1,3,6-TMN	9095	2
31)	23,40	170	a4	1,3,5+1,4,6-TMN	16236	4
32)	23,49	170	a4	2,3,6-TMN	6232	2
33)	23,89	170	a4	1,6,7+1,2,7-TMN	7295	2
34)	23,97	170	a4	1,2,6-TMN	8204	2
35)	24,40	170	a4	1,2,4-TMN	3189	1
36)	24,60	170	a4	1,2,5-TMN	19098	5
Biphenyls:						
37)	18,26	154	a5	BP	4011	1
38)	21,57	168	a5	3-MBP	3936	1
39)	21,83	168	a5	4-MBP	1613	0
40)	21,88	182	a4	2,3'-DMBP	336	0
41)	22,09	182	a4	2,5-DMBP	298	0
42)	22,25	182	a4	2,4+2,4'-DMBP	485	0
43)	22,89	182	a4	2,3-DMBP	434	0
44)	24,27	182	a4	3-EBP	587	0
45)	24,60	182	a4	3,5-DMBP	769	0
46)	24,70	182	a4	3,3'-DMBP	1793	0
47)	24,82	182	a4	4-EBP	242	0
48)	25,00	182	a4	3,4'-DMBP	1471	0
49)	25,21	182	a4	4,4'-DMBP	808	0
50)	25,76	182	a4	3,4-DMBP	873	0

Aromatic hydrocarbons

GC/MS detection HP-6890/5973

Compound data



Norsk Hydro E&P Research Centre, Bergen, Norway
Petroleum Geochemistry Laboratories

Data file name: 2991_43A.D
Sample name: 7216/11-S 2991,43m
Data File Path: C:\HPCHEM\1\DATA\DNK_NAM
Misc. info.:
Vial no.: 5
Method: MSD_A_E2
Operator: anne-Karin
Date: #VALUE!

Response curve: y = ax+b
Response factor groups: a1...a11, responses as defined in method

#	Rt.min.	m/z	Rf.	Name	Height	Amount ng/mg
Dibenzofuranes:						
51)	22,47	168	a5	DBF	4597	1
52)	25,56	182	a4	MDBF-1	4726	1
53)	25,92	182	a4	MDBF-2	4378	1
54)	26,22	182	a4	MDBF-3	3417	1
Fluorenes:						
55)	24,43	166	a6	F	7238	1
56)	27,67	180	a6	C1-F-1	3001	1
57)	27,91	180	a6	C1-F-2	10410	2
58)	28,21	180	a6	1-MF	1952	0
Dibenzothiophenes:						
60)	29,15	184	a7	DBT	4692	0
61)	31,79	198	a7	4-MDBT	2268	0
62)	32,31	198	a7	3+2-MDBT	857	0
63)	32,89	198	a7	1-MDBT	779	0
Phenanthrenes:						
64)	29,87	178	a8	P	45799	11
65)	32,84	192	a9	3-MP	7563	2
66)	32,98	192	a9	2-MP	9925	3
67)	33,46	192	a9	9-MP	18828	5
68)	33,59	192	a9	1-MP	15215	4
69)	35,57	206	a10	2EP+9EP+3,6-DMP	1665	0
70)	35,80	206	a10	1EP	1599	0
71)	35,91	206	a10	2,6+2,7+3,5-DMP	939	0
72)	36,23	206	a10	1,3+2,10+3,9+3,10-DMI	5265	1
73)	36,39	206	a10	1,6+2,5+2,9-DMP	4080	1
74)	36,53	206	a10	1,7-DMP	5908	2
75)	36,68	206	a10	2,3-DMP	1192	0
76)	36,79	206	a10	1,9+4,9+4,10-DMP	1419	0
77)	37,10	206	a10	1,8-DMP	1529	0
Retene:						
78)	40,45	219	a8	Retene	154834	38
Triaromatic steroids:						
80)	44,91	231	a11	20TA	456	0
81)	46,79	231	a11	21TA	735	0
82)	53,79	231	a11	S26TA	17206	2
83)	54,99	231	a11	R26TA/S27TA	55839	6
84)	55,96	231	a11	S28TA	21771	2
85)	56,47	231	a11	R27TA	26210	3
86)	57,68	231	a11	R28TA	20004	2

Aromatic hydrocarbons

GC/MS detection HP-6890/5973

Ratios, from heights and amounts



Norsk Hydro E&P Research Centre, Bergen, Norway
 Petroleum Geochemistry Laboratories

Data file name: 2991_43A.D
 Sample name: 7216/11-S 2991,43m
 Data File Path: C:\HPCHEM\1\DATA\DNK_NAM
 Misc. info.:

Vial no.: 5
 Method: MSD_A_E2
 Operator: anne-Karin
 Date: #VALUE!

Aromatic HC ratios, heights and amounts		Height	Amount
Naphthalene	Naphthalene	7676	2
C1 Naphthanes	Sum C1 Naphthanes	15680	4
C2 Naphthanes	Sum C2 Naphthanes	53471	13
C3 Naphthanes	Sum C3 Naphthanes	80448	20
Phenanthrene	Phenanthrene	45799	11
C1 Phenanthrenes	Sum C1 Phenanthrenes	51531	15
C2 Phenanthrenes	Sum C2 Phenanthrenes	23596	7
$3/2 \cdot (3MP+2MP)/(P+9MP+1MP)$	MPI1	0,3	0,4
$(3MP+2MP)/(3MP+2MP+9MP+1MP)$	F1	0,3	0,3
$2MP/(3MP+2MP+9MP+1MP)$	F2	0,2	0,2
$(2.6+2.7)DMN/1.5DMN$	DNR	0,9	0,9
$100 \cdot 20TA/(20TA+S28TA+R28TA)$	%-TAS'n	1,1	1,1
DBT/P	DBT/P	0,1	0,0
F/P	F/P	0,2	0,1
BP/1.6DMN	BP/1.6DMN	0,5	0,3
2MN/1MN	2MN/1MN	1,2	1,2
2EN/1EN	2EN/1EN	1,6	1,6
4MDBT/1MDBT	4MDBT/1MDBT	2,9	2,9

#	Rt.min.	m/z	Rf.	Name	Height	Amount ng/mg
Internal standard (if added):						
14)	11.85	136		d8N	22135	44
16)	18.16	164		d10BP	31147	39
59)	29.76	188		d10P	52960	44
79)	45.31	240		d12C	31302	44
Aryl isoprenoids:						
1)	20.26	133	0	C13AI	2137	
2)	21.98	133	0	C14AI	3693	
3)	26.52	133	0	C15AI	8064	
4)	28.77	133	0	C16AI	1761	
5)	30.82	133	0	C17AI	2033	
6)	33.80	133	0	C18AI	4843	
7)	34.68	133	0	C19AI	7127	
8)	37.72	133	0	C20AI	3383	
9)	39.75	133	0	C21AI	3659	
10)	42.70	133	0	C22AI	8533	
11)	44.56	133	0	C23AI	12795	
12)	55.63	133	0	C30AI	1877	
13)	56.65	133	0	C31AI	1210	
Naphthalenes:						
15)	11.95	128	a1	N	8680	16
17)	15.54	142	a2	2-MN	18502	22
18)	16.10	142	a2	1-MN	18254	22
19)	18.73	156	a3	2-EN	3799	4
20)	18.85	156	a3	1-EN	2512	3
21)	19.08	156	a3	2,6+2,7-DMN	10017	11
22)	19.53	156	a3	1,3+1,7-DMN	21922	25
23)	19.64	156	a3	1,6-DMN	12910	15
24)	20.14	156	a3	2,3+1,4-DMN	23138	26
25)	20.25	156	a3	1,5-DMN	15153	17
26)	20.62	156	a3	1,2-DMN	8258	9
27)	22.32	170	a4	C3-N-1	2756	3
28)	22.68	170	a4	C3-N-2	2187	2
29)	22.80	170	a4	1,3,7-TMN	15085	17
30)	22.94	170	a4	1,3,6-TMN	16080	18
31)	23.41	170	a4	1,3,5+1,4,6-TMN	31699	36
32)	23.49	170	a4	2,3,6-TMN	10095	12
33)	23.87	170	a4	1,6,7+1,2,7-TMN	12809	15
34)	23.97	170	a4	1,2,6-TMN	16272	19
35)	24.41	170	a4	1,2,4-TMN	6147	7
36)	24.61	170	a4	1,2,5-TMN	40900	47
Biphenyls:						
37)	18.28	154	a5	BP	3611	3
38)	21.57	168	a5	3-MBP	3156	2
39)	21.83	168	a5	4-MBP	1277	1
40)	21.89	182	a4	2,3'-DMBP	486	1
41)	22.10	182	a4	2,5-DMBP	506	1
42)	22.28	182	a4	2,4+2,4'-DMBP	778	1
43)	22.90	182	a4	2,3-DMBP	618	1
44)	24.28	182	a4	3-EBP	666	1
45)	24.60	182	a4	3,5-DMBP	591	1
46)	24.71	182	a4	3,3'-DMBP	1139	1
47)	24.82	182	a4	4-EBP	303	0
48)	25.01	182	a4	3,4'-DMBP	992	1
49)	25.22	182	a4	4,4'-DMBP	1057	1
50)	25.81	182	a4	3,4-DMBP	747	1

Aromatic hydrocarbons

GC/MS detection HP-6890/5973

Compound data



Norsk Hydro E&P Research Centre, Bergen, Norway
Petroleum Geochemistry Laboratories

Data file name: 2991_45A.D
Sample name: 7216/11-1 S, 2991,45m ARO
Data File Path: C:\HPCHEM\1\DATA\7216\
Misc. info.:

Vial no.: 17
Method: MSD_A_E2
Operator: annek
Date: #VALUE!

Response curve: y = ax+b
Response factor groups: a1...a11, responses as defined in method

#	Rt.min.	m/z	Rf.	Name	Height	Amount ng/mg
Dibenzofuranes:						
51)	22.47	168	a5	DBF	4208	3
52)	25.56	182	a4	MDBF-1	7437	8
53)	25.93	182	a4	MDBF-2	6862	8
54)	26.23	182	a4	MDBF-3	5477	6
Fluorenes:						
55)	24.43	166	a6	F	9934	9
56)	27.67	180	a6	C1-F-1	5646	5
57)	27.92	180	a6	C1-F-2	18259	17
58)	28.22	180	a6	1-MF	3914	4
Dibenzothiophenes:						
60)	29.15	184	a7	DBT	4211	1
61)	31.79	198	a7	4-MDBT	2463	1
62)	32.30	198	a7	3+2-MDBT	923	0
63)	32.89	198	a7	1-MDBT	682	0
Phenanthrenes:						
64)	29.88	178	a8	P	43799	31
65)	32.84	192	a9	3-MP	7296	6
66)	32.98	192	a9	2-MP	8871	7
67)	33.46	192	a9	9-MP	20972	17
68)	33.58	192	a9	1-MP	16331	13
69)	35.56	206	a10	2EP+9EP+3,6-DMP	1964	2
70)	35.80	206	a10	1EP	1601	1
71)	35.90	206	a10	2,6+2,7+3,5-DMP	891	1
72)	36.24	206	a10	1,3+2,10+3,9+3,10-DMI	5189	4
73)	36.39	206	a10	1,6+2,5+2,9-DMP	4267	3
74)	36.53	206	a10	1,7-DMP	7501	6
75)	36.68	206	a10	2,3-DMP	1224	1
76)	36.79	206	a10	1,9+4,9+4,10-DMP	1755	1
77)	37.09	206	a10	1,8-DMP	1895	1
Retene:						
78)	40.45	219	a8	Retene	243345	171
Triaromatic steroids:						
80)	44.92	231	a11	20TA	566	0
81)	46.79	231	a11	21TA	1068	0
82)	53.82	231	a11	S26TA	30540	9
83)	55.03	231	a11	R26TA/S27TA	94670	29
84)	55.98	231	a11	S28TA	42712	13
85)	56.50	231	a11	R27TA	47432	15
86)	57.68	231	a11	R28TA	38433	12

Aromatic hydrocarbons

GC/MS detection HP-6890/5973

Ratios, from heights and amounts



Norsk Hydro E&P Research Centre, Bergen, Norway
 Petroleum Geochemistry Laboratories

Data file name: 2991_45A.D
 Sample name: 7216/11-1 S, 2991,45m ARO
 Data File Path: C:\HPCHEM\1\DATA\7216\
 Misc. info.:

Vial no.: 17
 Method: MSD_A_E2
 Operator: annek
 Date: #VALUE!

Aromatic HC ratios, heights and amounts		Height	Amount
Naphthalene	Naphthalene	8680	16
C1 Naphthanes	Sum C1 Naphthanes	36756	44
C2 Naphthanes	Sum C2 Naphthanes	97709	110
C3 Naphthanes	Sum C3 Naphthanes	154030	176
Phenanthrene	Phenanthrene	43799	31
C1 Phenanthrenes	Sum C1 Phenanthrenes	53470	44
C2 Phenanthrenes	Sum C2 Phenanthrenes	26287	21
$3/2 \cdot (3MP+2MP)/(P+9MP+1MP)$	MPI1	0.3	0.3
$(3MP+2MP)/(3MP+2MP+9MP+1MP)$	F1	0.3	0.3
$2MP/(3MP+2MP+9MP+1MP)$	F2	0.2	0.2
$(2.6+2.7)DMN/1.5DMN$	DNR	0.7	0.7
$100 \cdot 20TA/(20TA+S28TA+R28TA)$	%-TAS'n	0.7	0.7
DBT/P	DBT/P	0.1	0.0
F/P	F/P	0.2	0.3
BP/1.6DMN	BP/1.6DMN	0.3	0.2
2MN/1MN	2MN/1MN	1.0	1.0
2EN/1EN	2EN/1EN	1.5	1.5
4MDBT/1MDBT	4MDBT/1MDBT	3.6	3.6

#	Rt.min.	m/z	Rf.	Name	Height	Amount
						ng/mg
Internal standard (if added):						
14)	11,84	136		d8N	39228	42
16)	18,15	164		d10BP	46396	37
59)	29,76	188		d10P	50681	42
79)	45,32	240		d12C	29462	42
Aryl isoprenoids:						
1)	20,25	133	0	C13AI	468	
2)	22,05	133	0	C14AI	258	
3)	26,51	133	0	C15AI	4804	
4)	28,76	133	0	C16AI	1013	
5)	30,82	133	0	C17AI	1496	
6)	33,79	133	0	C18AI	3442	
7)	34,69	133	0	C19AI	6428	
8)	37,73	133	0	C20AI	2563	
9)	39,75	133	0	C21AI	2588	
10)	42,71	133	0	C22AI	5788	
11)	44,80	133	0	C23AI	1117	
12)	55,70	133	0	C30AI	2488	
13)	56,67	133	0	C31AI	970	
Naphthalenes:						
15)	11,94	128	a1	N	1525	1
17)	15,53	142	a2	2-MN	1967	2
18)	16,08	142	a2	1-MN	1818	1
19)	18,72	156	a3	2-EN	590	0
20)	18,84	156	a3	1-EN	385	0
21)	19,07	156	a3	2,6+2,7-DMN	2038	1
22)	19,52	156	a3	1,3+1,7-DMN	4719	3
23)	19,63	156	a3	1,6-DMN	2958	2
24)	20,13	156	a3	2,3+1,4-DMN	4857	3
25)	20,24	156	a3	1,5-DMN	3231	2
26)	20,61	156	a3	1,2-DMN	2007	1
27)	22,30	170	a4	C3-N-1	941	1
28)	22,67	170	a4	C3-N-2	751	1
29)	22,78	170	a4	1,3,7-TMN	5589	4
30)	22,92	170	a4	1,3,6-TMN	5945	4
31)	23,40	170	a4	1,3,5+1,4,6-TMN	12583	9
32)	23,48	170	a4	2,3,6-TMN	4058	3
33)	23,90	170	a4	1,6,7+1,2,7-TMN	5461	4
34)	23,95	170	a4	1,2,6-TMN	6631	5
35)	24,40	170	a4	1,2,4-TMN	2855	2
36)	24,60	170	a4	1,2,5-TMN	18271	13
Biphenyls:						
37)	18,26	154	a5	BP	951	0
38)	21,56	168	a5	3-MBP	1420	1
39)	21,82	168	a5	4-MBP	570	0
40)	21,87	182	a4	2,3'-DMBP	163	0
41)	22,09	182	a4	2,5-DMBP	183	0
42)	22,25	182	a4	2,4+2,4'-DMBP	278	0
43)	22,88	182	a4	2,3-DMBP	236	0
44)	24,27	182	a4	3-EBP	344	0
45)	24,59	182	a4	3,5-DMBP	361	0
46)	24,70	182	a4	3,3'-DMBP	698	1
47)	24,81	182	a4	4-EBP	154	0
48)	25,00	182	a4	3,4'-DMBP	581	0
49)	25,21	182	a4	4,4'-DMBP	585	0
50)	25,78	182	a4	3,4-DMBP	497	0

Aromatic hydrocarbons

GC/MS detection HP-6890/5973

Compound data



Norsk Hydro E&P Research Centre, Bergen, Norway
Petroleum Geochemistry Laboratories

Data file name: 2991_50.A.D
Sample name: 7216/11-S 2991,50m
Data File Path: C:\HPCHEM\1\DATA\DNK_NAM
Misc. info.:
Vial no.: 6
Method: MSD_A_E2
Operator: anne-Karin
Date: #VALUE!

Response curve: y = ax+b
Response factor groups: a1...a11, responses as defined in method

#	Rt.min.	m/z	Rf.	Name	Height	Amount
						ng/mg
Dibenzofuranes:						
51)	22,47	168	a5	DBF	1807	1
52)	25,56	182	a4	MDBF-1	3823	3
53)	25,92	182	a4	MDBF-2	3620	3
54)	26,22	182	a4	MDBF-3	3125	2
Fluorenes:						
55)	24,43	166	a6	F	4663	3
56)	27,67	180	a6	C1-F-1	3017	2
57)	27,91	180	a6	C1-F-2	9763	6
58)	28,21	180	a6	1-MF	1901	1
Dibenzothiophenes:						
60)	29,15	184	a7	DBT	3576	1
61)	31,79	198	a7	4-MDBT	1924	0
62)	32,31	198	a7	3+2-MDBT	782	0
63)	32,90	198	a7	1-MDBT	682	0
Phenanthrenes:						
64)	29,87	178	a8	P	29958	21
65)	32,85	192	a9	3-MP	5566	5
66)	32,98	192	a9	2-MP	6572	5
67)	33,46	192	a9	9-MP	16153	13
68)	33,60	192	a9	1-MP	12382	10
69)	35,57	206	a10	2EP+9EP+3,6-DMP	1382	1
70)	35,81	206	a10	1EP	1141	1
71)	35,91	206	a10	2,6+2,7+3,5-DMP	611	0
72)	36,25	206	a10	1,3+2,10+3,9+3,10-DMI	3759	3
73)	36,40	206	a10	1,6+2,5+2,9-DMP	3061	2
74)	36,53	206	a10	1,7-DMP	5396	4
75)	36,68	206	a10	2,3-DMP	814	1
76)	36,79	206	a10	1,9+4,9+4,10-DMP	1102	1
77)	37,11	206	a10	1,8-DMP	1281	1
Retene:						
78)	40,45	219	a8	Retene	153311	107
Triaromatic steroids:						
80)	44,92	231	a11	20TA	446	0
81)	46,79	231	a11	21TA	768	0
82)	53,81	231	a11	S26TA	18916	6
83)	55,02	231	a11	R26TA/S27TA	64812	20
84)	55,98	231	a11	S28TA	26861	8
85)	56,49	231	a11	R27TA	30624	9
86)	57,69	231	a11	R28TA	23834	7

Aromatic hydrocarbons

GC/MS detection HP-6890/5973

Ratios, from heights and amounts



Norsk Hydro E&P Research Centre, Bergen, Norway
Petroleum Geochemistry Laboratories

Data file name: 2991_50A.D
Sample name: 7216/11-S 2991,50m
Data File Path: C:\HPCHEM\1\DATA\DNK_NAM\
Misc. info.:

Vial no.: 6
Method: MSD_A_E2
Operator: anne-Karin
Date: #VALUE!

Aromatic HC ratios, heights and amounts		Height	Amount
Naphthalene	Naphthalene	1525	1
C1 Naphthanes	Sum C1 Naphthanes	3785	3
C2 Naphthanes	Sum C2 Naphthanes	20785	15
C3 Naphthanes	Sum C3 Naphthanes	63085	46
Phenanthrene	Phenanthrene	29958	21
C1 Phenanthrenes	Sum C1 Phenanthrenes	40673	33
C2 Phenanthrenes	Sum C2 Phenanthrenes	18547	15
$3/2 \cdot (3MP+2MP)/(P+9MP+1MP)$	MPI1	0,3	0,3
$(3MP+2MP)/(3MP+2MP+9MP+1MP)$	F1	0,3	0,3
$2MP/(3MP+2MP+9MP+1MP)$	F2	0,2	0,2
$(2.6+2.7)DMN/1.5DMN$	DNR	0,6	0,6
$100 \cdot 20TA/(20TA+S28TA+R28TA)$	%-TAS'n	0,9	0,9
DBT/P	DBT/P	0,1	0,0
F/P	F/P	0,2	0,1
BP/1.6DMN	BP/1.6DMN	0,3	0,2
2MN/1MN	2MN/1MN	1,1	1,1
2EN/1EN	2EN/1EN	1,5	1,5
4MDBT/1MDBT	4MDBT/1MDBT	2,8	2,8

#	Rt.min.	m/z	Rf.	Name	Height	Amount
						ng/mg
Internal standard (if added):						
14)	11.85	136		d8N	18282	42
16)	18.15	164		d10BP	20379	37
59)	29.74	188		d10P	25042	42
79)	45.21	240		d12C	10914	42
Aryl isoprenoids:						
1)	20.25	133	0	C13AI	22	
2)	22.07	133	0	C14AI	16	
3)	26.50	133	0	C15AI	43	
4)	28.76	133	0	C16AI	12	
5)	30.78	133	0	C17AI	14	
6)	33.86	133	0	C18AI	67	
7)	34.81	133	0	C19AI	154	
8)	37.78	133	0	C20AI	24	
9)	39.80	133	0	C21AI	49	
10)	42.75	133	0	C22AI	22	
11)	44.74	133	0	C23AI	6	
12)	55.73	133	0	C30AI	12	
13)	56.71	133	0	C31AI	13	
Naphthalenes:						
15)	11.95	128	a1	N	1152	2
17)	15.54	142	a2	2-MN	1129	2
18)	16.09	142	a2	1-MN	972	2
19)	18.73	156	a3	2-EN	121	0
20)	18.85	156	a3	1-EN	75	0
21)	19.06	156	a3	2.6+2.7-DMN	448	1
22)	19.53	156	a3	1.3+1.7-DMN	731	1
23)	19.63	156	a3	1.6-DMN	512	1
24)	20.13	156	a3	2.3+1.4-DMN	748	1
25)	20.24	156	a3	1.5-DMN	402	1
26)	20.62	156	a3	1.2-DMN	252	0
27)	22.30	170	a4	C3-N-1	69	0
28)	22.67	170	a4	C3-N-2	54	0
29)	22.78	170	a4	1.3.7-TMN	345	1
30)	22.92	170	a4	1.3.6-TMN	435	1
31)	23.40	170	a4	1.3.5+1.4.6-TMN	627	1
32)	23.47	170	a4	2.3.6-TMN	354	1
33)	23.89	170	a4	1.6.7+1.2.7-TMN	357	1
34)	23.95	170	a4	1.2.6-TMN	395	1
35)	24.38	170	a4	1.2.4-TMN	137	0
36)	24.60	170	a4	1.2.5-TMN	838	1
Biphenyls:						
37)	18.27	154	a5	BP	226	0
38)	21.57	168	a5	3-MBP	182	0
39)	21.82	168	a5	4-MBP	103	0
40)	21.88	182	a4	2.3'-DMBP	12	0
41)	22.08	182	a4	2.5-DMBP	9	0
42)	22.25	182	a4	2.4+2.4'-DMBP	13	0
43)	22.87	182	a4	2.3-DMBP	18	0
44)	24.26	182	a4	3-EBP	22	0
45)	24.59	182	a4	3.5-DMBP	29	0
46)	24.69	182	a4	3.3'-DMBP	76	0
47)	24.79	182	a4	4-EBP	12	0
48)	24.98	182	a4	3.4'-DMBP	74	0
49)	25.20	182	a4	4.4'-DMBP	40	0
50)	25.76	182	a4	3.4-DMBP	33	0

Aromatic hydrocarbons

GC/MS detection HP-6890/5973

Compound data



Norsk Hydro E&P Research Centre, Bergen, Norway
Petroleum Geochemistry Laboratories

Data file name: 2991_93A.D
Sample name: 7216/11-1 S, 2991,93m ARO
Data File Path: C:\HPCHEM\1\DATA\7216\
Misc. info.:

Vial no.: 18
Method: MSD_A_E2
Operator: annek
Date: #VALUE!

Response curve: y = ax+b
Response factor groups: a1...a11, responses as defined in method

#	Rt.min.	m/z	Rf.	Name	Height	Amount
						ng/mg
Dibenzofuranes:						
51)	22.45	168	a5	DBF	299	0
52)	25.55	182	a4	MDBF-1	255	0
53)	25.92	182	a4	MDBF-2	272	0
54)	26.20	182	a4	MDBF-3	225	0
Fluorenes:						
55)	24.42	166	a6	F	453	1
56)	27.64	180	a6	C1-F-1	176	0
57)	27.88	180	a6	C1-F-2	664	1
58)	28.19	180	a6	1-MF	107	0
Dibenzothiophenes:						
60)	29.14	184	a7	DBT	183	0
61)	31.75	198	a7	4-MDBT	112	0
62)	32.28	198	a7	3+2-MDBT	37	0
63)	32.86	198	a7	1-MDBT	31	0
Phenanthrenes:						
64)	29.85	178	a8	P	2571	4
65)	32.80	192	a9	3-MP	372	1
66)	32.93	192	a9	2-MP	503	1
67)	33.41	192	a9	9-MP	959	2
68)	33.54	192	a9	1-MP	776	1
69)	35.52	206	a10	2EP+9EP+3.6-DMP	80	0
70)	35.74	206	a10	1EP	97	0
71)	35.84	206	a10	2.6+2.7+3.5-DMP	62	0
72)	36.17	206	a10	1.3+2.10+3.9+3.10-DMI	298	0
73)	36.33	206	a10	1.6+2.5+2.9-DMP	220	0
74)	36.46	206	a10	1.7-DMP	307	0
75)	36.62	206	a10	2.3-DMP	63	0
76)	36.72	206	a10	1.9+4.9+4.10-DMP	93	0
77)	37.03	206	a10	1.8-DMP	74	0
Retene:						
78)	40.34	219	a8	Retene	3957	6
Triaromatic steroids:						
80)	44.83	231	a11	20TA	21	0
81)	46.68	231	a11	21TA	20	0
82)	53.64	231	a11	S26TA	132	0
83)	54.86	231	a11	R26TA/S27TA	450	0
84)	55.84	231	a11	S28TA	142	0
85)	56.35	231	a11	R27TA	218	0
86)	57.57	231	a11	R28TA	142	0

Aromatic hydrocarbons

GC/MS detection HP-6890/5973

Ratios, from heights and amounts



Norsk Hydro E&P Research Centre, Bergen, Norway
 Petroleum Geochemistry Laboratories

Data file name: 2991_93A.D
 Sample name: 7216/11-1 S, 2991,93m ARO
 Data File Path: C:\HPCHEM\1\DATA\7216\
 Misc. info.:

Vial no.: 18
 Method: MSD_A_E2
 Operator: annek
 Date: #VALUE!

Aromatic HC ratios, heights and amounts		Height	Amount
Naphthalene	Naphthalene	1152	2
C1 Naphthanes	Sum C1 Naphthanes	2101	4
C2 Naphthanes	Sum C2 Naphthanes	3289	5
C3 Naphthanes	Sum C3 Naphthanes	3611	6
Phenanthrene	Phenanthrene	2571	4
C1 Phenanthrenes	Sum C1 Phenanthrenes	2610	4
C2 Phenanthrenes	Sum C2 Phenanthrenes	1294	2
$3/2 \cdot (3MP+2MP)/(P+9MP+1MP)$	MPI1	0.3	0.3
$(3MP+2MP)/(3MP+2MP+9MP+1MP)$	F1	0.3	0.3
$2MP/(3MP+2MP+9MP+1MP)$	F2	0.2	0.2
$(2.6+2.7)DMN/1.5DMN$	DNR	1.1	1.1
$100 \cdot 20TA/(20TA+S28TA+R28TA)$	%-TAS'n	6.9	6.9
DBT/P	DBT/P	0.1	0.0
F/P	F/P	0.2	0.2
BP/1.6DMN	BP/1.6DMN	0.4	0.3
2MN/1MN	2MN/1MN	1.2	1.2
2EN/1EN	2EN/1EN	1.6	1.6
4MDBT/1MDBT	4MDBT/1MDBT	3.6	3.6

#	Rt.min.	m/z	Rf.	Name	Height	Amount
						ng/mg
Internal standard (if added):						
14)	11.85	136		d8N	56676	83
16)	18.15	164		d10BP	67003	73
59)	29.74	188		d10P	85098	83
79)	45.24	240		d12C	35922	83
Aryl isoprenoids:						
1)	20.25	133	0	C13AI	11	
2)	22.14	133	0	C14AI	5	
3)	26.34	133	0	C15AI	9	
4)	28.77	133	0	C16AI	8	
5)	30.77	133	0	C17AI	6	
6)	33.73	133	0	C18AI	10	
7)	34.77	133	0	C19AI	11	
8)	37.77	133	0	C20AI	7	
9)	39.75	133	0	C21AI	7	
10)	42.73	133	0	C22AI	4	
11)	44.77	133	0	C23AI	3	
12)	55.72	133	0	C30AI	12	
13)	56.74	133	0	C31AI	13	
Naphthalenes:						
15)	11.95	128	a1	N	656	1
17)	15.52	142	a2	2-MN	894	1
18)	16.09	142	a2	1-MN	642	1
19)	18.72	156	a3	2-EN	51	0
20)	18.84	156	a3	1-EN	22	0
21)	19.06	156	a3	2.6+2.7-DMN	191	0
22)	19.52	156	a3	1.3+1.7-DMN	264	0
23)	19.63	156	a3	1.6-DMN	205	0
24)	20.13	156	a3	2.3+1.4-DMN	115	0
25)	20.24	156	a3	1.5-DMN	62	0
26)	20.62	156	a3	1.2-DMN	45	0
27)	22.30	170	a4	C3-N-1	26	0
28)	22.67	170	a4	C3-N-2	30	0
29)	22.78	170	a4	1.3.7-TMN	103	0
30)	22.92	170	a4	1.3.6-TMN	144	0
31)	23.40	170	a4	1.3.5+1.4.6-TMN	138	0
32)	23.47	170	a4	2.3.6-TMN	106	0
33)	23.89	170	a4	1.6.7+1.2.7-TMN	96	0
34)	23.96	170	a4	1.2.6-TMN	50	0
35)	24.38	170	a4	1.2.4-TMN	16	0
36)	24.59	170	a4	1.2.5-TMN	63	0
Biphenyls:						
37)	18.27	154	a5	BP	118	0
38)	21.57	168	a5	3-MBP	157	0
39)	21.82	168	a5	4-MBP	56	0
40)	21.88	182	a4	2.3'-DMBP	9	0
41)	22.06	182	a4	2.5-DMBP	5	0
42)	22.25	182	a4	2.4+2.4'-DMBP	8	0
43)	22.86	182	a4	2.3-DMBP	14	0
44)	24.26	182	a4	3-EBP	17	0
45)	24.60	182	a4	3.5-DMBP	25	0
46)	24.68	182	a4	3.3'-DMBP	63	0
47)	24.80	182	a4	4-EBP	9	0
48)	24.98	182	a4	3.4'-DMBP	56	0
49)	25.20	182	a4	4.4'-DMBP	14	0
50)	25.77	182	a4	3.4-DMBP	34	0

Aromatic hydrocarbons

GC/MS detection HP-6890/5973

Compound data



Norsk Hydro E&P Research Centre, Bergen, Norway
Petroleum Geochemistry Laboratories

Data file name: M2000_A.D
Sample name: 7216/11-1 MUD 2000m ARO
Data File Path: C:\HPCHEM\1\DATA\IRAN_PR\1
Misc. info.:

Vial no.: 19
Method: MSD_A_E2
Operator: ANNEK
Date: #VALUE!

Response curve: y = ax+b
Response factor groups: a1...a11, responses as defined in method

#	Rt.min.	m/z	Rf.	Name	Height	Amount
						ng/mg
Dibenzofuranes:						
51)	22.47	168	a5	DBF	69	0
52)	25.55	182	a4	MDBF-1	47	0
53)	25.93	182	a4	MDBF-2	37	0
54)	26.22	182	a4	MDBF-3	28	0
Fluorenes:						
55)	24.43	166	a6	F	95	0
56)	27.65	180	a6	C1-F-1	31	0
57)	27.89	180	a6	C1-F-2	92	0
58)	28.20	180	a6	1-MF	17	0
Dibenzothiophenes:						
60)	29.14	184	a7	DBT	35	0
61)	31.77	198	a7	4-MDBT	30	0
62)	32.27	198	a7	3+2-MDBT	8	0
63)	32.87	198	a7	1-MDBT	13	0
Phenanthrenes:						
64)	29.86	178	a8	P	395	0
65)	32.82	192	a9	3-MP	79	0
66)	32.96	192	a9	2-MP	96	0
67)	33.43	192	a9	9-MP	109	0
68)	33.55	192	a9	1-MP	87	0
69)	35.55	206	a10	2EP+9EP+3.6-DMP	19	0
70)	35.77	206	a10	1EP	24	0
71)	35.86	206	a10	2.6+2.7+3.5-DMP	16	0
72)	36.20	206	a10	1.3+2.10+3.9+3.10-DMI	69	0
73)	36.35	206	a10	1.6+2.5+2.9-DMP	42	0
74)	36.48	206	a10	1.7-DMP	43	0
75)	36.62	206	a10	2.3-DMP	13	0
76)	36.74	206	a10	1.9+4.9+4.10-DMP	21	0
77)	37.06	206	a10	1.8-DMP	13	0
Retene:						
78)	40.36	219	a8	Retene	36	0
Triaromatic steroids:						
80)	44.85	231	a11	20TA	11	0
81)	46.69	231	a11	21TA	3	0
82)	53.62	231	a11	S26TA	17	0
83)	54.88	231	a11	R26TA/S27TA	10	0
84)	55.86	231	a11	S28TA	6	0
85)	56.34	231	a11	R27TA	8	0
86)	57.57	231	a11	R28TA	7	0

Aromatic hydrocarbons

GC/MS detection HP-6890/5973

Ratios, from heights and amounts



Norsk Hydro E&P Research Centre, Bergen, Norway
Petroleum Geochemistry Laboratories

Data file name: M2000_A.D
Sample name: 7216/11-1 MUD 2000m ARO
Data File Path: C:\HPCHEM\1\DATA\IRAN_PRI
Misc. info.:

Vial no.: 19
Method: MSD_A_E2
Operator: ANNEK
Date: #VALUE!

Aromatic HC ratios, heights and amounts		Height	Amount
Naphthalene	Naphthalene	656	1
C1 Naphthanes	Sum C1 Naphthanes	1536	2
C2 Naphthanes	Sum C2 Naphthanes	955	1
C3 Naphthanes	Sum C3 Naphthanes	772	1
Phenanthrene	Phenanthrene	395	0
C1 Phenanthrenes	Sum C1 Phenanthrenes	371	0
C2 Phenanthrenes	Sum C2 Phenanthrenes	260	0
$3/2 \cdot (3MP+2MP)/(P+9MP+1MP)$	MPI1	0.4	0.5
$(3MP+2MP)/(3MP+2MP+9MP+1MP)$	F1	0.5	0.5
$2MP/(3MP+2MP+9MP+1MP)$	F2	0.3	0.3
$(2.6+2.7)DMN/1.5DMN$	DNR	3.1	3.1
$100 \cdot 20TA/(20TA+S28TA+R28TA)$	%-TAS'n	45.8	45.8
DBT/P	DBT/P	0.1	0.0
F/P	F/P	0.2	0.2
BP/1.6DMN	BP/1.6DMN	0.6	0.4
2MN/1MN	2MN/1MN	1.4	1.4
2EN/1EN	2EN/1EN	2.3	2.3
4MDBT/1MDBT	4MDBT/1MDBT	2.3	2.3

#	Rt.min.	m/z	Rf.	Name	Height	Amount ng/mg
Internal standard (if added):						
14)	11.86	136		d8N	68064	48
16)	18.16	164		d10BP	79156	42
59)	29.74	188		d10P	90962	48
79)	45.25	240		d12C	39779	48
Aryl isoprenoids:						
1)	20.24	133	0	C13AI	12	
2)	22.05	133	0	C14AI	15	
3)	26.45	133	0	C15AI	7	
4)	28.76	133	0	C16AI	10	
5)	30.73	133	0	C17AI	8	
6)	33.68	133	0	C18AI	10	
7)	34.73	133	0	C19AI	10	
8)	37.85	133	0	C20AI	44	
9)	39.75	133	0	C21AI	10	
10)	42.81	133	0	C22AI	10	
11)	44.74	133	0	C23AI	6	
12)	55.75	133	0	C30AI	13	
13)	56.75	133	0	C31AI	8	
Naphthalenes:						
15)	11.94	128	a1	N	1068	1
17)	15.52	142	a2	2-MN	1256	1
18)	16.10	142	a2	1-MN	1057	1
19)	18.73	156	a3	2-EN	62	0
20)	18.85	156	a3	1-EN	31	0
21)	19.07	156	a3	2.6+2.7-DMN	276	0
22)	19.52	156	a3	1.3+1.7-DMN	408	0
23)	19.63	156	a3	1.6-DMN	272	0
24)	20.13	156	a3	2.3+1.4-DMN	161	0
25)	20.25	156	a3	1.5-DMN	84	0
26)	20.61	156	a3	1.2-DMN	73	0
27)	22.30	170	a4	C3-N-1	19	0
28)	22.66	170	a4	C3-N-2	23	0
29)	22.78	170	a4	1.3.7-TMN	92	0
30)	22.92	170	a4	1.3.6-TMN	146	0
31)	23.40	170	a4	1.3.5+1.4.6-TMN	127	0
32)	23.49	170	a4	2.3.6-TMN	92	0
33)	23.90	170	a4	1.6.7+1.2.7-TMN	88	0
34)	23.95	170	a4	1.2.6-TMN	55	0
35)	24.40	170	a4	1.2.4-TMN	17	0
36)	24.60	170	a4	1.2.5-TMN	77	0
Biphenyls:						
37)	18.26	154	a5	BP	141	0
38)	21.56	168	a5	3-MBP	126	0
39)	21.82	168	a5	4-MBP	48	0
40)	21.88	182	a4	2.3'-DMBP	10	0
41)	22.09	182	a4	2.5-DMBP	8	0
42)	22.25	182	a4	2.4+2.4'-DMBP	8	0
43)	22.88	182	a4	2.3-DMBP	13	0
44)	24.25	182	a4	3-EBP	16	0
45)	24.60	182	a4	3.5-DMBP	23	0
46)	24.70	182	a4	3.3'-DMBP	51	0
47)	24.78	182	a4	4-EBP	5	0
48)	25.00	182	a4	3.4'-DMBP	43	0
49)	25.20	182	a4	4.4'-DMBP	11	0
50)	25.76	182	a4	3.4-DMBP	19	0

Aromatic hydrocarbons

GC/MS detection HP-6890/5973

Compound data



Norsk Hydro E&P Research Centre, Bergen, Norway
Petroleum Geochemistry Laboratories

Data file name: M2758_A.D
Sample name: 7216/11-1 MUD 2758m ARO
Data File Path: C:\HPCHEM\1\DATA\IRAN_PR\
Misc. info.:
Vial no.: 20
Method: MSD_A_E2
Operator: ANNEK
Date: #VALUE!

Response curve: y = ax+b
Response factor groups: a1...a11, responses as defined in method

#	Rt.min.	m/z	Rf.	Name	Height	Amount ng/mg
Dibenzofuranes:						
51)	22.47	168	a5	DBF	95	0
52)	25.56	182	a4	MDBF-1	50	0
53)	25.92	182	a4	MDBF-2	36	0
54)	26.21	182	a4	MDBF-3	23	0
Fluorenes:						
55)	24.43	166	a6	F	120	0
56)	27.64	180	a6	C1-F-1	29	0
57)	27.88	180	a6	C1-F-2	77	0
58)	28.21	180	a6	1-MF	17	0
Dibenzothiophenes:						
60)	29.13	184	a7	DBT	29	0
61)	31.77	198	a7	4-MDBT	35	0
62)	32.29	198	a7	3+2-MDBT	12	0
63)	32.88	198	a7	1-MDBT	14	0
Phenanthrenes:						
64)	29.86	178	a8	P	536	0
65)	32.82	192	a9	3-MP	84	0
66)	32.95	192	a9	2-MP	105	0
67)	33.43	192	a9	9-MP	131	0
68)	33.56	192	a9	1-MP	95	0
69)	35.55	206	a10	2EP+9EP+3.6-DMP	22	0
70)	35.76	206	a10	1EP	27	0
71)	35.87	206	a10	2.6+2.7+3.5-DMP	17	0
72)	36.20	206	a10	1.3+2.10+3.9+3.10-DMI	102	0
73)	36.34	206	a10	1.6+2.5+2.9-DMP	54	0
74)	36.50	206	a10	1.7-DMP	56	0
75)	36.65	206	a10	2.3-DMP	17	0
76)	36.75	206	a10	1.9+4.9+4.10-DMP	26	0
77)	37.06	206	a10	1.8-DMP	18	0
Retene:						
78)	40.37	219	a8	Retene	80	0
Triaromatic steroids:						
80)	44.84	231	a11	20TA	10	0
81)	46.71	231	a11	21TA	6	0
82)	53.64	231	a11	S26TA	15	0
83)	54.87	231	a11	R26TA/S27TA	18	0
84)	55.85	231	a11	S28TA	7	0
85)	56.38	231	a11	R27TA	9	0
86)	57.61	231	a11	R28TA	6	0