

#	Rt.min.	Signal FID	Compound	Area	Amount ug/mg
Internal standards (if added):					
1)	13.28	GC1	C12D26	370023	3.45
6)	25.59	GC1	C16D34	556541	3.45
11)	35.89	GC1	C20D42	802404	3.42
19)	44.49	GC1	C24D50	898547	3.48
28)	55.14	GC1	C30D62	380396	1.47
2)	10.57	GC1	nC11	295	
3)	13.82	GC1	nC12	619	
4)	17.08	GC1	nC13	2317	
5)	20.25	GC1	nC14	5427	
7)	22.19	GC1	iC16	2256	0.01
8)	23.29	GC1	nC15	8022	0.05
9)	26.20	GC1	nC16	10053	0.06
10)	27.55	GC1	iC18	2671	0.02
12)	28.96	GC1	nC17	10220	0.04
13)	29.12	GC1	pristane	5652	0.02
14)	31.59	GC1	nC18	9485	0.04
15)	31.84	GC1	phytane	3456	0.01
16)	34.10	GC1	nC19	10285	0.04
17)	36.51	GC1	nC20	10041	0.04
18)	38.80	GC1	nC21	8727	0.04
20)	41.01	GC1	nC22	7580	0.03
21)	43.12	GC1	nC23	7204	0.03
22)	45.16	GC1	nC24	6825	0.03
23)	47.11	GC1	nC25	6521	0.03
24)	48.99	GC1	nC26	5451	0.02
25)	50.80	GC1	nC27	4984	0.02
26)	52.56	GC1	nC28	4226	0.02
27)	54.26	GC1	nC29	4274	0.02
29)	55.91	GC1	nC30	3249	0.01
30)	57.50	GC1	nC31	2967	0.01
31)	59.04	GC1	nC32	2111	0.01
32)	60.53	GC1	nC33	1728	0.01
33)	61.99	GC1	nC34	1588	0.01
34)	63.53	GC1	nC35	1252	0.00

Saturated hydrocarbons

GC/FID detection HP-6890

Compound data and ratios



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

Data file name: S2860.D
Sample name: 30/6-25S 2860m SAT
Data File Path: C:\HPCHEM\2\DATA\306_25S1\
Misc. info.:

Vial no.: 7
Method: MSD_S_D
Operator: Ame
Date: #VALUE!

Response curve $y = ax$
Response factors equally 1.0

Ratios:	Area	Amount
Pr/nC17	0.55	0.55
Ph/nC18	0.36	0.36
(Pr/nC17)/(Ph/nC18)	1.52	1.52
Pr/Ph	1.64	1.64
nC17/(nC17+nC27)	0.67	0.69
CPI-1	1.10	1.10
CPI-2 (2*nC27/(nC26+nC27))	0.96	0.96

#	Rt.min.	Signal FID	Compound	Area	Amount ug/mg
Internal standards (if added):					
1)	13.31	GC1	C12D26	610633	3.57
6)	25.61	GC1	C16D34	858042	3.57
11)	35.90	GC1	C20D42	1193135	3.53
19)	44.52	GC1	C24D50	1312830	3.61
28)	55.16	GC1	C30D62	564804	1.55
2)	10.57	GC1	nC11	1480	
3)	13.82	GC1	nC12	3002	
4)	17.08	GC1	nC13	10680	
5)	20.25	GC1	nC14	16793	
7)	22.16	GC1	iC16	2756	0.01
8)	23.29	GC1	nC15	10774	0.04
9)	26.20	GC1	nC16	8624	0.04
10)	27.56	GC1	iC18	2881	0.01
12)	28.96	GC1	nC17	8771	0.03
13)	29.12	GC1	pristane	10067	0.03
14)	31.59	GC1	nC18	7938	0.02
15)	31.84	GC1	phytane	3943	0.01
16)	34.10	GC1	nC19	9461	0.03
17)	36.52	GC1	nC20	9986	0.03
18)	38.81	GC1	nC21	9262	0.03
20)	41.01	GC1	nC22	7854	0.02
21)	43.13	GC1	nC23	8214	0.02
22)	45.17	GC1	nC24	7792	0.02
23)	47.11	GC1	nC25	8719	0.02
24)	49.00	GC1	nC26	6458	0.02
25)	50.81	GC1	nC27	6535	0.02
26)	52.57	GC1	nC28	5294	0.01
27)	54.27	GC1	nC29	6228	0.02
29)	55.91	GC1	nC30	4543	0.01
30)	57.50	GC1	nC31	3778	0.01
31)	59.04	GC1	nC32	2770	0.01
32)	60.54	GC1	nC33	2327	0.01
33)	62.00	GC1	nC34	2083	0.01
34)	63.53	GC1	nC35	1911	0.01

Saturated hydrocarbons

GC/FID detection HP-6890

Compound data and ratios



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

Data file name: **S2907_5.D**
Sample name: **30/6-25S 2907.5m SAT**
Data File Path: C:\HPCHEM\2\DATA\306_25S\1\
Misc. info.:

Vial no.: 8
Method: MSD_S_D
Operator: Arne
Date: #VALUE!

Response curve y = ax
Response factors equally 1.0

Ratios:	Area	Amount
Pr/nC17	1.15	1.15
Ph/nC18	0.50	0.50
(Pr/nC17)/(Ph/nC18)	2.31	2.31
Pr/Ph	2.55	2.55
nC17/(nC17+nC27)	0.57	0.59
CPI-1	1.19	1.19
CPI-2 (2*nC27/(nC26+nC27))	1.01	1.01

#	Rt.min.	Signal FID	Compound	Area	Amount ug/mg
Internal standards (if added):					
1)	13.25	GC1	C12D26	103257	4.00
6)	25.53	GC1	C16D34	138915	4.00
11)	35.79	GC1	C20D42	139440	3.96
19)	44.39	GC1	C24D50	145818	4.04
28)	55.08	GC1	C30D62	61554	1.71
2)	10.57	GC1	nC11	160277	
3)	13.84	GC1	nC12	198766	
4)	17.11	GC1	nC13	214505	
5)	20.29	GC1	nC14	217060	
7)	22.18	GC1	iC16	78978	2.27
8)	23.34	GC1	nC15	219545	6.32
9)	26.24	GC1	nC16	203494	5.86
10)	27.58	GC1	iC18	62953	1.81
12)	29.01	GC1	nC17	185123	5.26
13)	29.15	GC1	pristane	105706	3.00
14)	31.63	GC1	nC18	153773	4.37
15)	31.87	GC1	phytane	75575	2.15
16)	34.14	GC1	nC19	137065	3.89
17)	36.55	GC1	nC20	123467	3.51
18)	38.84	GC1	nC21	110099	3.13
20)	41.04	GC1	nC22	99742	2.76
21)	43.15	GC1	nC23	90679	2.51
22)	45.19	GC1	nC24	87709	2.43
23)	47.13	GC1	nC25	74350	2.06
24)	49.02	GC1	nC26	62781	1.74
25)	50.83	GC1	nC27	53054	1.47
26)	52.59	GC1	nC28	44612	1.24
27)	54.29	GC1	nC29	43874	1.22
29)	55.92	GC1	nC30	36194	1.00
30)	57.52	GC1	nC31	30317	0.84
31)	59.05	GC1	nC32	26385	0.73
32)	60.55	GC1	nC33	20318	0.56
33)	62.00	GC1	nC34	21909	0.61
34)	63.55	GC1	nC35	16704	0.46

Saturated hydrocarbons

GC/FID detection HP-6890
Compound data and ratios



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

Data file name: NSO_02S.D
Sample name: nso1_02S ref. sample SAT
Data File Path: C:\HPCHEM\2\DATA\306_25S1\
Misc. info.:

Vial no.: 1
Method: MSD_S_D
Operator: Arne
Date: #VALUE!

Response curve y = ax
Response factors equally 1.0

Ratios:	Area	Amount
Pr/nC17	0.57	0.57
Ph/nC18	0.49	0.49
(Pr/nC17)/(Ph/nC18)	1.16	1.16
Pr/Ph	1.40	1.40
nC17/(nC17+nC27)	0.78	0.78
CPI-1	1.03	1.03
CPI-2 (2*nC27/(nC26+nC27))	0.92	0.92

#	Rt.min.	Signal FID	Compound	Area	Amount ug/mg
Internal standards (if added):					
1)	13.25	GC1	C12D26	131916	4.00
6)	25.54	GC1	C16D34	168551	4.00
11)	35.80	GC1	C20D42	177200	3.96
19)	44.41	GC1	C24D50	175211	4.04
28)	55.08	GC1	C30D62	73998	1.71
2)	10.58	GC1	nC11	208684	
3)	13.85	GC1	nC12	252030	
4)	17.12	GC1	nC13	265145	
5)	20.31	GC1	nC14	269720	
7)	22.19	GC1	iC16	94075	2.23
8)	23.36	GC1	nC15	270580	6.42
9)	26.26	GC1	nC16	248747	5.90
10)	27.59	GC1	iC18	78290	1.86
12)	29.02	GC1	nC17	224064	5.01
13)	29.17	GC1	pristane	136243	3.04
14)	31.65	GC1	nC18	187711	4.19
15)	31.88	GC1	phytane	91170	2.04
16)	34.16	GC1	nC19	166562	3.72
17)	36.56	GC1	nC20	149409	3.34
18)	38.85	GC1	nC21	132389	2.96
20)	41.05	GC1	nC22	119448	2.75
21)	43.17	GC1	nC23	109741	2.53
22)	45.20	GC1	nC24	106887	2.46
23)	47.15	GC1	nC25	91391	2.11
24)	49.03	GC1	nC26	75455	1.74
25)	50.84	GC1	nC27	63335	1.46
26)	52.59	GC1	nC28	54355	1.25
27)	54.29	GC1	nC29	53278	1.23
29)	55.93	GC1	nC30	45449	1.05
30)	57.51	GC1	nC31	36142	0.83
31)	59.06	GC1	nC32	30797	0.71
32)	60.56	GC1	nC33	24241	0.56
33)	62.00	GC1	nC34	32556	0.75
34)	63.55	GC1	nC35	19007	0.44

Saturated hydrocarbons

GC/FID detection HP-6890

Compound data and ratios



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

Data file name: NSO_10S.D
Sample name: nso1-10S ref. sample SAT
Data File Path: C:\HPCHEM2\DATA\306_25S1\
Misc. info.:

Vial no.: 1
Method: MSD_S_D
Operator: Arne
Date: #VALUE!

Response curve $y = ax$
Response factor equally 1.0

Ratios:	Area	Amount
Pr/nC17	0.61	0.61
Ph/nC18	0.49	0.49
(Pr/nC17)/(Ph/nC18)	1.25	1.25
Pr/Ph	1.49	1.49
nC17/(nC17+nC27)	0.78	0.77
CPI-1	1.03	1.03
CPI-2 (2*nC27/(nC26+nC27))	0.91	0.91

#	Rt.min.	Signal FID	Compound	Area	Amount ug/mg
Internal standards (if added):					
1)	13.21	GC1	C12D26	96215	4.00
6)	25.50	GC1	C16D34	134149	4.00
11)	35.78	GC1	C20D42	147495	3.96
19)	44.40	GC1	C24D50	142245	4.04
28)	55.10	GC1	C30D62	61293	1.74
2)	10.54	GC1	nC11	149368	
3)	13.79	GC1	nC12	187637	
4)	17.07	GC1	nC13	205290	
5)	20.26	GC1	nC14	209085	
7)	22.14	GC1	iC16	76806	2.29
8)	23.31	GC1	nC15	216310	6.45
9)	26.22	GC1	nC16	199640	5.95
10)	27.56	GC1	iC18	60872	1.82
12)	28.99	GC1	nC17	180624	4.85
13)	29.14	GC1	pristane	103226	2.77
14)	31.62	GC1	nC18	150180	4.03
15)	31.85	GC1	phytane	73914	1.98
16)	34.14	GC1	nC19	135790	3.65
17)	36.54	GC1	nC20	121205	3.25
18)	38.84	GC1	nC21	106876	2.87
20)	41.04	GC1	nC22	98505	2.80
21)	43.15	GC1	nC23	90985	2.58
22)	45.19	GC1	nC24	86996	2.47
23)	47.14	GC1	nC25	74615	2.12
24)	49.03	GC1	nC26	61103	1.74
25)	50.85	GC1	nC27	51035	1.45
26)	52.61	GC1	nC28	44166	1.25
27)	54.30	GC1	nC29	43282	1.23
29)	55.95	GC1	nC30	36865	1.05
30)	57.53	GC1	nC31	30042	0.85
31)	59.07	GC1	nC32	24989	0.71
32)	60.58	GC1	nC33	19757	0.56
33)	62.03	GC1	nC34	24817	0.70
34)	63.58	GC1	nC35	14460	0.41

Saturated hydrocarbons

GC/FID detection HP-6890

Compound data and ratios



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

Data file name: NSO_02S.D
Sample name: nso1_02S ref. sample SAT
Data File Path: K:\CAP\MSFIDW95\WOODA
Misc. info.:

Vial no.: 1
Method: MSD_S_D
Operator: marian
Date: #VALUE!

Response curve y = ax
Response factors equally 1.0

Ratios:	Area	Amount
Pr/nC17	0.57	0.57
Ph/nC18	0.49	0.49
(Pr/nC17)/(Ph/nC18)	1.16	1.16
Pr/Ph	1.40	1.40
nC17/(nC17+nC27)	0.78	0.77
CPI-1	1.03	1.03
CPI-2 (2*nC27/(nC26+nC27))	0.91	0.91

Title: Petroleum Geochemistry, Well 30/6-25 S

No:

Rev.: 0

Date: 1999-04-21

Appendix 3

**C₁₅₊ saturated hydrocarbon biomarkers,
data tables and reports**

End-depth, m	Type	Lith. Name	Remarks	Status	Signal	%29aaS	%29bb	%27ster	%28ster	%29ster	%30ster	%Preg	%20/3	%23/3	%24/4	%Tri	%27Ts
2320.00	DC		Mud impregnation	OK	AM	48.4	66.5	31.6	24.8	31.9	11.7	16.4	10.5	50.9	40.9	6.3	50.9
2340.00	DC		Mud impregnation	OK	AM	60.6	58.4	30.9	24.3	30.7	14.2	22.9	53.0	50.3	38.9	12.1	50.9
2673.00	SWC	SST 46	Mud impregnation	WEAK	AM	37.9	59.0	31.8	18.9	46.1	3.2	12.5	13.4	59.3	69.7	3.0	17.1
2688.00	SWC	SST 44	Mud impregnation	WEAK	AM	46.5	67.9	41.3	21.5	33.9	3.3	15.9	7.2	63.1	71.2	11.3	28.8
2860.00	SWC	SST 16	Mud impregnation	WEAK	AM	48.8	67.2	39.5	22.2	32.2	6.1	19.4	6.6	57.3	50.0	16.6	36.8
2907.50	SWC	SST 9	Mud impregnation	WEAK	AM	45.5	67.0	39.3	21.5	34.9	4.3	12.5	19.9	56.8	63.1	10.4	28.1
			Lab.Ref. psu/ref-NSO1 sat	OK	AM	51.8	68.0	31.6	24.1	32.8	11.5	17.6	10.8	47.9	39.5	7.2	51.7
			Lab.Ref. psu/ref-NSO1 sat	OK	AM	49.9	66.4	33.0	25.3	30.8	11.0	17.6	10.4	48.2	38.6	7.5	54.1
			Lab.Ref. psu/ref-NSO1 sat	OK	AM	49.7	65.2	31.3	26.2	31.0	11.5	18.4	10.4	48.2	38.6	7.5	54.1

End-depth, m	Type	Lith. Name	Remarks	Status	Signal	%27Ts	%28ab	%29Ts	%25nor30ab	%29ab	%30ba	%30D	%30G	%32abS	%35ab
2320.00	DC		Mud impregnation	OK	AM	50.9	24.8	29.3	8.5	37.7	9.9	10.7	7.0	57.5	44.2
2340.00	DC		Mud impregnation	OK	AM	50.9	25.3	29.1	9.1	39.2	10.5	15.7	7.9	59.9	41.5
2673.00	SWC	SST 46	Mud impregnation	WEAK	AM	17.1	82.4	9.3	1.7	63.9	21.9	8.2	10.1	58.3	33.1
2688.00	SWC	SST 44	Mud impregnation	WEAK	AM	28.8	11.2	11.2	2.3	72.1	7.4	2.9	10.1	60.8	39.9
2860.00	SWC	SST 16	Mud impregnation	WEAK	AM	36.8	18.8	16.2	7.1	63.0	10.8	9.9	10.8	58.2	39.4
2907.50	SWC	SST 9	Mud impregnation	WEAK	AM	28.1	15.7	12.7	6.4	66.4	12.4	4.8	10.0	60.7	40.6
			Lab.Ref. psu/ref-NSO1 sat	OK	AM	51.7	25.0	29.9	9.6	37.5	9.1	12.5	7.1	59.3	43.5
			Lab.Ref. psu/ref-NSO1 sat	OK	AM	54.1	25.9	29.6	9.7	39.7	9.0	12.9	8.6	60.2	42.8
			Lab.Ref. psu/ref-NSO1 sat	OK	AM	54.1	25.9	29.6	9.7	39.7	9.0	12.9	8.6	60.2	42.8

End-depth, m	Type	Lith. Name	Remarks	Status	Signal	%27hop	%28hop	%29hop	%30hop	%31hop	%32hop	%33hop	%34hop	%35hop	Ho/St2
2320.00	DC		Mud impregnation	OK	AM	8.2	6.2	14.1	20.9	18.3	12.1	10.2	5.6	4.5	3.04
2340.00	DC		Mud impregnation	OK	AM	9.1	6.2	14.6	20.6	18.3	11.7	9.6	5.8	4.1	3.43
2673.00	SWC	SST 46	Mud impregnation	WEAK	AM	7.7	42.7	18.9	11.7	10.5	4.6	2.2	1.2	0.6	8.30
2688.00	SWC	SST 44	Mud impregnation	WEAK	AM	18.4	1.7	36.6	14.4	15.7	6.7	3.7	1.7	1.1	2.46
2860.00	SWC	SST 16	Mud impregnation	WEAK	AM	15.5	3.4	27.7	16.6	16.8	9.0	5.7	3.3	2.1	2.35
2907.50	SWC	SST 9	Mud impregnation	WEAK	AM	16.5	2.7	31.0	16.4	17.3	7.9	4.3	2.3	1.6	3.09
			Lab.Ref. psu/ref-NSO1 sat	OK	AM	8.7	6.3	13.7	20.8	18.0	12.2	10.1	5.7	4.4	2.71
			Lab.Ref. psu/ref-NSO1 sat	OK	AM	8.9	6.5	14.6	20.3	17.8	12.6	10.1	5.3	4.0	2.54
			Lab.Ref. psu/ref-NSO1 sat	OK	AM	8.9	6.5	14.6	20.3	17.8	12.6	10.1	5.3	4.0	2.68

Saturaterd biomarker hydrocarbons, by GC/MS

#	Rt.min.	m/z	Rf.	Name	Height	Amount
Internal standard (if added):						
1)	45.97	217.2		24baa	8557	23
Diterpanes:						
2)	33.63	191.2	s1	19/3	3187	7
3)	35.60	191.2	s1	20/3	2398	5
4)	37.65	191.2	s1	21/3	3448	7
5)	41.62	191.2	s1	23/3	6997	14
6)	42.75	191.2	s1	24/3	4270	9
7)	45.07	191.2	s1	25/3	2468	5
8)	46.55	191.2	s1	24/4	4665	10
9)	46.66	191.2	s1	26/3R	1658	3
10)	46.79	191.2	s1	26/3S	1638	3
11)	50.33	191.2	s1	28/3R	2146	4
12)	50.58	191.2	s1	28/3S	2165	4
13)	51.36	191.2	s1	29/3R	2927	6
14)	51.65	191.2	s1	29/3S	2604	5
Triterpanes:						
15)	52.51	191.2	s1	27Ts	14356	30
16)	52.75	177.15	s1	25nor28ab	14554	30
17)	53.18	191.2	s1	27Tm	13819	28
18)	53.55	177.15	s1	25nor29ab	6792	14
19)	53.68	191.2	s1	27b	3390	7
20)	54.75	191.2	s1	28ab	21201	44
21)	54.96	177.15	s1	25nor30ab	5979	12
22)	55.45	191.2	s1	29ab	38824	80
23)	55.55	191.2	s1	29Ts	16053	33
24)	55.80	191.2	s1	30D	7695	16
25)	56.24	191.2	s1	29ba	9235	19
26)	56.83	191.2	s2	30ab	99840	132
27)	57.16	191.2	s1	30D13	5419	11
28)	57.45	191.2	s2	30ba	10990	15
29)	58.41	191.2	s1	31abS	36403	75
30)	58.60	191.2	s1	31abR	26002	54
31)	58.94	191.2	s1	30G	4830	10
32)	59.13	191.2	s1	31ba	4347	9
33)	59.65	191.2	s1	32abS	23704	49
34)	59.91	191.2	s1	32abR	17504	36
35)	61.08	191.2	s1	33abS	21625	44
36)	61.45	191.2	s1	33abR	13376	28
37)	62.58	191.2	s1	34abS	11809	24
38)	63.07	191.2	s1	34abR	7438	15
39)	64.27	191.2	s1	35abS	9245	19
40)	64.97	191.2	s1	35abR	6031	12

Saturated biomarkers

GC/MS detection HP-6890/5973
Compound data



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

Data file name: S2320.D
Sample name: 30/6-25S 2320m SAT
Data File Path: C:\HPCHEM2\DATA\306_25S1\
Misc. info.:

Vial no.: 3
Method: MSD_S_D
Operator: Arne
Date: 10 Mar 1999 18:11

Response curve $y = ax$
Response factor groups: s1...s3, responses as defined in method

#	Rt.min.	m/z	Rf.	Name	Height	Amount
Steranes:						
41)	38.15	217.2	s3	21aa	7246	22
42)	39.82	217.2	s3	21bb	9338	28
43)	39.93	217.2	s3	22aa	5997	18
44)	42.17	217.2	s3	22bb	5907	18
45)	48.49	217.2	s3	27dbS	17577	52
46)	49.13	217.2	s3	27dbR	10407	31
47)	51.49	218.2	s3	27bbR	14475	43
48)	51.63	218.2	s3	27bbS	10103	30
49)	52.04	217.2	s3	27aaR	6450	19
50)	53.24	218.2	s3	28bbR	8446	25
51)	53.37	218.2	s3	28bbS	10895	32
52)	54.37	217.2	s3	29aaS	6067	18
53)	54.67	218.2	s3	29bbR	12869	38
54)	54.76	218.2	s3	29bbS	11998	36
55)	55.37	217.2	s3	29aaR	6464	19
56)	55.84	218.2	s3	30bbR	4777	14
57)	55.89	218.2	s3	30bbS	4325	13

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: S2320.D
Sample name: 30/6-25S 2320m SAT
Data File Path: C:\HPCHEM2\DATA\306_25S1\
Misc. info.:

Vial no.: 3
Method: MSD_S_D
Operator: Arne
Date: 10 Mar 1999 18:11

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	6
$100 \cdot 20/3 / ((\text{sum}20-25)/3+26/3(R+S))$	%20/3	10	10
$100 \cdot 23/3 / (23/3+24/3+25/3)$	%23/3	51	51
$100 \cdot 24/4 / (24/4+24/3+25/3)$	%24/4	41	41
$100 \cdot Ts / (Ts+Tm)$	%27Ts	51	51
$100 \cdot 28ab / (28ab+30ab)$	%28ab	18	25
$100 \cdot 29Ts / (29Ts+29ab)$	%29Ts	29	29
$100 \cdot 25nor30ab / (25nor30ab+30ab)$	%25nor30ab	6	9
$100 \cdot 29ab / (29ab+30ab)$	%29ab	28	38
$100 \cdot 30ba / (30ba+30ab)$	%30ba	10	10
$100 \cdot 30D / (30D+30ab)$	%30D	7	11
$100 \cdot 30G / (30G+30ab)$	%30G	5	7
$100 \cdot 32abS / (32ab(S+R))$	%32abS	58	58
$100 \cdot 35ab(S+R) / (34-35ab(S+R))$	%35ab	44	44
$100 \cdot (27Ts+27Tm) / (27Ts+27Tm+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%27HOP	7	8
$100 \cdot (28ab) / (27Ts+27Tm+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%28HOP	6	6
$100 \cdot (29ab+ba) / (27Ts+27Tm+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%29HOP	13	14
$100 \cdot (30ab+ba) / (27Ts+27Tm+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%30HOP	29	21
$100 \cdot 31ab(S+R) / (27Ts+27Tm+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%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	12
$100 \cdot 33ab(S+R) / (27Ts+27Tm+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%33HOP	9	10
$100 \cdot 34ab(S+R) / (27Ts+27Tm+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%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	4

Sterane ratios

$100 \cdot (21+22)bb / ((21+22)bb+(27+28+29+30)bb(R+S))$	%Preg	16	16
$100 \cdot 29aaS / 29aa(R+S)$	%29aaS	48	48
$100 \cdot 29bb(R+S) / (29bb(R+S)+29aa(S+R))$	%29bb	66	66
$100 \cdot 27db(S+R) / ((27db(S+R)+27bb(R+S))$	%27dia	53	53
$100 \cdot 27bb(R+S) / (27+28+29+30)bb(R+S)$	%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	32	32
$100 \cdot 30bb(R+S) / (27+28+29+30)bb(R+S)$	%30STER	12	12

Hopanes/Steranes ratio-2 (only bb steranes)

Ho/St2	5	3
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#	Rt.min.	m/z	Rf.	Name	Height	Amount
					ng/mg	
Internal standard (if added):						
1)	46.02	217.2		24baa	1180	18
Diterpanes:						
2)	33.67	191.2	s1	19/3	775	9
3)	35.64	191.2	s1	20/3	570	7
4)	37.69	191.2	s1	21/3	742	9
5)	41.66	191.2	s1	23/3	1173	14
6)	42.79	191.2	s1	24/3	806	9
7)	45.10	191.2	s1	25/3	520	6
8)	46.60	191.2	s1	24/4	976	11
9)	46.72	191.2	s1	26/3R	261	3
10)	46.85	191.2	s1	26/3S	351	4
11)	50.39	191.2	s1	28/3R	424	5
12)	50.62	191.2	s1	28/3S	297	3
13)	51.42	191.2	s1	29/3R	459	5
14)	51.71	191.2	s1	29/3S	409	5
Triterpanes:						
15)	52.56	191.2	s1	27Ts	3268	38
16)	52.81	177.15	s1	25nor28ab	2420	28
17)	53.23	191.2	s1	27Tm	3371	39
18)	53.62	177.15	s1	25nor29ab	1313	15
19)	53.72	191.2	s1	27b	712	8
20)	54.80	191.2	s1	28ab	4427	51
21)	55.02	177.15	s1	25nor30ab	1212	14
22)	55.50	191.2	s1	29ab	8405	97
23)	55.62	191.2	s1	29Ts	3155	36
24)	55.88	191.2	s1	30D	2174	25
25)	56.30	191.2	s1	29ba	1739	20
26)	56.88	191.2	s2	30ab	20651	153
27)	57.22	191.2	s1	30D13	1124	13
28)	57.50	191.2	s2	30ba	2206	16
29)	58.47	191.2	s1	31abS	6927	80
30)	58.66	191.2	s1	31abR	4981	57
31)	59.00	191.2	s1	30G	1051	12
32)	59.19	191.2	s1	31ba	786	9
33)	59.71	191.2	s1	32abS	4481	52
34)	59.98	191.2	s1	32abR	3183	37
35)	61.15	191.2	s1	33abS	3614	42
36)	61.52	191.2	s1	33abR	2323	27
37)	62.66	191.2	s1	34abS	1894	22
38)	63.15	191.2	s1	34abR	1086	13
39)	64.37	191.2	s1	35abS	1249	14
40)	65.07	191.2	s1	35abR	800	9

Saturated biomarkers

GC/MS detection HP-6890/5973
Compound data



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

Data file name: S2340.D
Sample name: 30/6-25s 2340m SAT
Data File Path: C:\HPCHEM2\DATA\WOOD\1
Misc. info.:

Vial no.: 7
Method: MSD_S_D
Operator: marian
Date: 15 Apr 1999 21:02

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)	38.18	217.2	s3	21aa	1558	26
42)	39.85	217.2	s3	21bb	1930	32
43)	39.97	217.2	s3	22aa	1164	19
44)	42.21	217.2	s3	22bb	1227	20
45)	48.55	217.2	s3	27dbS	3117	52
46)	49.19	217.2	s3	27dbR	1916	32
47)	51.54	218.2	s3	27bbR	2531	42
48)	51.69	218.2	s3	27bbS	1825	30
49)	52.09	217.2	s3	27aaR	1004	17
50)	53.29	218.2	s3	28bbR	1443	24
51)	53.43	218.2	s3	28bbS	1899	32
52)	54.43	217.2	s3	29aaS	1122	19
53)	54.71	218.2	s3	29bbR	2172	36
54)	54.82	218.2	s3	29bbS	2170	36
55)	55.43	217.2	s3	29aaR	1015	17
56)	55.89	218.2	s3	30bbR	873	15
57)	55.95	218.2	s3	30bbS	837	14

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: **S2340.D**
 Sample name: **30/6-25s 2340m SAT**
 Data File Path: **C:\HPCHEM2\DATA\WOOD1**
 Misc. info.:

 Vial no.: **7**
 Method: **MSD_S_D**
 Operator: **marian**
 Date: **15 Apr 1999 21:02**

Terpane ratios, heights and amounts	Height	Amount
100*((sum20-25)/3+26/3(R+S)) /		
((sum20-25)/3+26/3(R+S)+27(Ts+Tm)+28ab+sum29-30(ab+ba)+sum31-35ab(R+S))	%Tri	6 6
100*20/3/((sum20-25)/3+26/3(R+S))	%20/3	13 13
100*23/3/(23/3+24/3+25/3)	%23/3	47 47
100*24/4/(24/4+24/3+25/3)	%24/4	42 42
100*Ts/(Ts+Tm)	%27Ts	49 49
100*28ab/(28ab+30ab)	%28ab	18 25
100*29Ts/(29Ts+29ab)	%29Ts	27 27
100*25nor30ab/(25nor30ab+30ab)	%25nor30ab	6 8
100*29ab/(29ab+30ab)	%29ab	29 39
100*30ba/(30ba+30ab)	%30ba	10 10
100*30D/(30D+30ab)	%30D	10 14
100*30G/(30G+30ab)	%30G	5 7
100*32abS/(32ab(S+R))	%32abS	58 58
100*35ab(S+R)/(34-35ab(S+R))	%35ab	41 41
100*(27Ts+27Tm)/(27Ts+27Tm+28ab+sum29-30(ab+ba)+sum31-35ab(R+S))	%27HOP	9 10
100*(28ab)/(27Ts+27Tm+28ab+sum29-30(ab+ba)+sum31-35ab(R+S))	%28HOP	6 7
100*(29ab+ba)/(27Ts+27Tm+28ab+sum29-30(ab+ba)+sum31-35ab(R+S))	%29HOP	14 15
100*(30ab+ba)/(27Ts+27Tm+28ab+sum29-30(ab+ba)+sum31-35ab(R+S))	%30HOP	31 22
100*31ab(S+R)/(27Ts+27Tm+28ab+sum29-30(ab+ba)+sum31-35ab(R+S))	%31HOP	16 18
100*32ab(S+R)/(27Ts+27Tm+28ab+sum29-30(ab+ba)+sum31-35ab(R+S))	%32HOP	10 12
100*33ab(S+R)/(27Ts+27Tm+28ab+sum29-30(ab+ba)+sum31-35ab(R+S))	%33HOP	8 9
100*34ab(S+R)/(27Ts+27Tm+28ab+sum29-30(ab+ba)+sum31-35ab(R+S))	%34HOP	4 4
100*35ab(S+R)/(27Ts+27Tm+28ab+sum29-30(ab+ba)+sum31-35ab(R+S))	%35HOP	3 3
Sterane ratios		
100*(21+22)bb/((21+22)bb+(27+28+29+30)bb(R+S))	%Preg	19 19
100*29aaS/29aa(R+S)	%29aaS	53 53
100*29bb(R+S)/(29bb(R+S)+29aa(S+R))	%29bb	67 67
100*27db(S+R)/((27db(S+R)+27bb(R+S))	%27dia	54 54
100*27bb(R+S)/(27+28+29+30)bb(R+S)	%27STER	32 32
100*28bb(R+S)/(27+28+29+30)bb(R+S)	%28STER	24 24
100*29bb(R+S)/(27+28+29+30)bb(R+S)	%29STER	32 32
100*30bb(R+S)/(27+28+29+30)bb(R+S)	%30STER	12 12
Hopaness/Steranes ratio-2 (only bb steranes)	Ho/St2	5 3

#	Rt.min.	m/z	Rf.	Name	Height	Amount
					ng/mg	
Internal standard (if added):						
1)	45.94	217.2		24baa	14397	26
Diterpanes:						
2)	33.58	191.2	s1	19/3	420	1
3)	35.51	191.2	s1	20/3	243	0
4)	37.61	191.2	s1	21/3	185	0
5)	41.58	191.2	s1	23/3	710	1
6)	42.70	191.2	s1	24/3	315	0
7)	44.99	191.2	s1	25/3	168	0
8)	46.52	191.2	s1	24/4	1122	2
9)	46.63	191.2	s1	26/3R	96	0
10)	46.76	191.2	s1	26/3S	98	0
11)	50.34	191.2	s1	28/3R	392	1
12)	50.52	191.2	s1	28/3S	120	0
13)	51.32	191.2	s1	29/3R	131	0
14)	51.61	191.2	s1	29/3S	146	0
Triterpanes:						
15)	52.47	191.2	s1	27Ts	774	1
16)	52.71	177.15	s1	25nor28ab	144	0
17)	53.13	191.2	s1	27Tm	3762	5
18)	53.51	177.15	s1	25nor29ab	120	0
19)	53.66	191.2	s1	27b	512	1
20)	54.68	191.2	s1	28ab	25218	34
21)	54.91	177.15	s1	25nor30ab	94	0
22)	55.41	191.2	s1	29ab	9548	13
23)	55.51	191.2	s1	29Ts	984	1
24)	55.77	191.2	s1	30D	479	1
25)	56.20	191.2	s1	29ba	1574	2
26)	56.78	191.2	s2	30ab	8374	7
27)	57.13	191.2	s1	30D13	1059	1
28)	57.41	191.2	s2	30ba	2348	2
29)	58.37	191.2	s1	31abS	3738	5
30)	58.56	191.2	s1	31abR	2458	3
31)	58.90	191.2	s1	30G	605	1
32)	59.09	191.2	s1	31ba	1206	2
33)	59.61	191.2	s1	32abS	1578	2
34)	59.87	191.2	s1	32abR	1131	2
35)	61.05	191.2	s1	33abS	731	1
36)	61.41	191.2	s1	33abR	539	1
37)	62.54	191.2	s1	34abS	397	1
38)	63.03	191.2	s1	34abR	305	0
39)	64.22	191.2	s1	35abS	193	0
40)	64.93	191.2	s1	35abR	154	0

Saturated biomarkers

GC/MS detection HP-6890/5973

Compound data



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

Data file name: **S2673.D**
 Sample name: **30/6-25S 2673m SAT**
 Data File Path: **C:\HPCHEM2\DATA\306_25S1**
 Misc. info.:
 Vial no.: **5**
 Method: **MSD_S_D**
 Operator: **Arne**
 Date: **10 Mar 1999 21:08**

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)	38.10	217.2	s3	21aa	133	0
42)	39.77	217.2	s3	21bb	439	1
43)	39.89	217.2	s3	22aa	120	0
44)	42.12	217.2	s3	22bb	262	1
45)	48.46	217.2	s3	27dbS	402	1
46)	49.10	217.2	s3	27dbR	243	0
47)	51.44	218.2	s3	27bbR	928	2
48)	51.60	218.2	s3	27bbS	636	1
49)	52.00	217.2	s3	27aaR	469	1
50)	53.19	218.2	s3	28bbR	440	1
51)	53.34	218.2	s3	28bbS	489	1
52)	54.31	217.2	s3	29aaS	598	1
53)	54.62	218.2	s3	29bbR	1085	2
54)	54.72	218.2	s3	29bbS	1185	2
55)	55.33	217.2	s3	29aaR	982	2
56)	55.80	218.2	s3	30bbR	84	0
57)	55.86	218.2	s3	30bbS	75	0