

#	Rt.min.	m/z	Rf.	Name	Height	Amount ng/mg
Diterpanes:						
1)	46.57	217.2		24baa	2540	23
2)	34.22	191.2	s1	19/3	6900	48
3)	36.21	191.2	s1	20/3	3743	26
4)	38.24	191.2	s1	21/3	2872	20
5)	42.22	191.2	s1	23/3	3196	22
6)	43.34	191.2	s1	24/3	3153	22
7)	45.62	191.2	s1	25/3	759	5
8)	47.17	191.2	s1	24/4	8180	57
9)	47.25	191.2	s1	26/3R	856	6
10)	47.39	191.2	s1	26/3S	992	7
11)	50.95	191.2	s1	28/3R	638	4
12)	51.18	191.2	s1	28/3S	578	4
13)	51.96	191.2	s1	29/3R	1085	8
14)	52.27	191.2	s1	29/3S	1106	8
Triterpanes:						
15)	53.15	191.2	s1	27Ts	14714	103
16)	53.40	177.15	s1	25nor28ab	31920	223
17)	53.82	191.2	s1	27Tm	28776	201
18)	54.22	177.15	s1	25nor29ab	114432	800
19)	54.20	191.2	s1	27b	11310	79
20)	55.39	191.2	s1	28ab	4443	31
21)	55.64	177.15	s1	25nor30ab	90240	631
22)	56.09	191.2	s1	29ab	8658	61
23)	56.22	191.2	s1	29Ts	31368	219
24)	56.44	191.2	s1	30D	6693	47
25)	56.88	191.2	s1	29ba	12155	85
26)	57.44	191.2	s2	30ab	8692	39
27)	57.81	191.2	s1	30D13	9559	67
28)	58.08	191.2	s2	30ba	9775	44
29)	59.03	191.2	s1	31abS	8637	60
30)	59.22	191.2	s1	31abR	2329	16
31)	59.56	191.2	s1	30G	6581	46
32)	59.73	191.2	s1	31ba	3406	24
33)	60.26	191.2	s1	32abS	10128	71
34)	60.53	191.2	s1	32abR	7285	51
35)	61.69	191.2	s1	33abS	8827	62
36)	62.06	191.2	s1	33abR	5751	40
37)	63.25	191.2	s1	34abS	3870	27
38)	63.77	191.2	s1	34abR	2921	20
39)	65.06	191.2	s1	35abS	1719	12
40)	65.78	191.2	s1	35abR	1572	11

Saturated biomarkers

GC/MS detection HP-6890/5973
Compound data



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

Data file name: 2991_25S.D
Sample name: 7216/11-1 S, 2991,25m SAT
Data File Path: C:\HPCHEM\1\DATA\7216\
Misc. info.:

Vial no.: 5
Method: MSD_S_E2
Operator: annek
Date: 1 Nov 2000 21:06

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)	38.74	217.2	s3	21aa	3206	32
42)	40.41	217.2	s3	21bb	3750	38
43)	40.53	217.2	s3	22aa	2398	24
44)	42.78	217.2	s3	22bb	1876	19
45)	49.10	217.2	s3	27dbS	12472	126
46)	49.73	217.2	s3	27dbR	8765	88
47)	52.10	218.2	s3	27bbR	7765	78
48)	52.25	218.2	s3	27bbS	4096	41
49)	52.66	217.2	s3	27aaR	29894	302
50)	53.86	218.2	s3	28bbR	6231	63
51)	53.99	218.2	s3	28bbS	5097	51
52)	54.98	217.2	s3	29aaS	6898	70
53)	55.30	218.2	s3	29bbR	8581	87
54)	55.39	218.2	s3	29bbS	6132	62
55)	56.01	217.2	s3	29aaR	40174	406
56)	56.45	218.2	s3	30bbR	773	8
57)	56.52	218.2	s3	30bbS	910	9

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: 2991_25S.D
Sample name: 7216/11-1 S, 2991,25m SAT
Data File Path: C:\HPCHEM\1\DATA\7216\
Misc. info.:

Vial no.: 5
Method: MSD_S_E2
Operator: annek
Date: 1 Nov 2000 21:06

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	10	10
100*20/3/((sum20-25)/3+26/3(R+S))	%20/3	24	24
100*23/3/(23/3+24/3+25/3)	%23/3	45	45
100*24/4/(24/4+24/3+25/3)	%24/4	68	68
100*Ts/(Ts+Tm)	%27Ts	34	34
100*28ab/(28ab+30ab)	%28ab	34	44
100*29Ts/(29Ts+29ab)	%29Ts	78	78
100*25nor30ab/(25nor30ab+30ab)	%25nor30ab	91	94
100*29ab/(29ab+30ab)	%29ab	50	61
100*30ba/(30ba+30ab)	%30ba	53	53
100*30D/(30D+30ab)	%30D	44	54
100*30G/(30G+30ab)	%30G	43	54
100*32abS/(32ab(S+R))	%32abS	58	58
100*35ab(S+R)/(34-35ab(S+R))	%35ab	33	33
100*(27Ts+27Tm)/(27Ts+27Tm+28ab+sum29-30(ab+ba)+sum31-35ab(R+S))	%27HOP	31	33
100*(28ab)/(27Ts+27Tm+28ab+sum29-30(ab+ba)+sum31-35ab(R+S))	%28HOP	3	3
100*(29ab+ba)/(27Ts+27Tm+28ab+sum29-30(ab+ba)+sum31-35ab(R+S))	%29HOP	15	16
100*(30ab+ba)/(27Ts+27Tm+28ab+sum29-30(ab+ba)+sum31-35ab(R+S))	%30HOP	13	9
100*31ab(S+R)/(27Ts+27Tm+28ab+sum29-30(ab+ba)+sum31-35ab(R+S))	%31HOP	8	8
100*32ab(S+R)/(27Ts+27Tm+28ab+sum29-30(ab+ba)+sum31-35ab(R+S))	%32HOP	12	13
100*33ab(S+R)/(27Ts+27Tm+28ab+sum29-30(ab+ba)+sum31-35ab(R+S))	%33HOP	10	11
100*34ab(S+R)/(27Ts+27Tm+28ab+sum29-30(ab+ba)+sum31-35ab(R+S))	%34HOP	5	5
100*35ab(S+R)/(27Ts+27Tm+28ab+sum29-30(ab+ba)+sum31-35ab(R+S))	%35HOP	2	2

Sterane ratios

100*(21+22)bb/((21+22)bb+(27+28+29+30)bb(R+S))	%Preg	12	12
100*29aaS/29aa(R+S)	%29aaS	15	15
100*29bb(R+S)/(29bb(R+S)+29aa(S+R))	%29bb	24	24
100*27db(S+R)/((27db(S+R)+27bb(R+S)))	%27dia	64	64
100*27bb(R+S)/(27+28+29+30)bb(R+S)	%27STER	30	30
100*28bb(R+S)/(27+28+29+30)bb(R+S)	%28STER	29	29
100*29bb(R+S)/(27+28+29+30)bb(R+S)	%29STER	37	37
100*30bb(R+S)/(27+28+29+30)bb(R+S)	%30STER	4	4

Hopanes/Steranes ratio-2 (only bb steranes)

Ho/St2 4 2

#	Rt.min.	m/z	Rf.	Name	Height	Amount ng/mg
Diterpanes:						
2)	34.16	191.2	s1	19/3	225	2
3)	36.16	191.2	s1	20/3	160	1
4)	38.19	191.2	s1	21/3	159	1
5)	42.18	191.2	s1	23/3	468	3
6)	43.29	191.2	s1	24/3	297	2
7)	45.56	191.2	s1	25/3	120	1
8)	47.13	191.2	s1	24/4	592	4
9)	47.22	191.2	s1	26/3R	77	1
10)	47.35	191.2	s1	26/3S	92	1
11)	50.88	191.2	s1	28/3R	64	0
12)	51.12	191.2	s1	28/3S	48	0
13)	51.92	191.2	s1	29/3R	67	0
14)	52.22	191.2	s1	29/3S	61	0
Triterpanes:						
15)	53.09	191.2	s1	27Ts	796	6
16)	53.34	177.15	s1	25nor28ab	1118	8
17)	53.76	191.2	s1	27Tm	1073	8
18)	54.14	177.15	s1	25nor29ab	3403	24
19)	54.24	191.2	s1	27b	71	1
20)	55.32	191.2	s1	28ab	245	2
21)	55.54	177.15	s1	25nor30ab	2597	19
22)	56.03	191.2	s1	29ab	491	4
23)	56.14	191.2	s1	29Ts	1215	9
24)	56.37	191.2	s1	30D	297	2
25)	56.83	191.2	s1	29ba	424	3
26)	57.40	191.2	s2	30ab	614	3
27)	57.75	191.2	s1	30D13	369	3
28)	58.02	191.2	s2	30ba	328	2
29)	58.99	191.2	s1	31abS	416	3
30)	59.18	191.2	s1	31abR	207	1
31)	59.52	191.2	s1	30G	199	1
32)	59.69	191.2	s1	31ba	125	1
33)	60.22	191.2	s1	32abS	355	3
34)	60.49	191.2	s1	32abR	276	2
35)	61.67	191.2	s1	33abS	289	2
36)	62.03	191.2	s1	33abR	210	1
37)	63.22	191.2	s1	34abS	148	1
38)	63.74	191.2	s1	34abR	106	1
39)	65.02	191.2	s1	35abS	63	0
40)	65.76	191.2	s1	35abR	67	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: 2991_36S.D
 Sample name: 7216/11-1 S, 2991,36m SAT
 Data File Path: C:\HPCHEM\1\DATA\7216
 Misc. info.:

 Vial no.: 6
 Method: MSD_S_E2
 Operator: annek
 Date: 1 Nov 2000 22:35

 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)	38.69	217.2	s3	21aa	175	2
42)	40.36	217.2	s3	21bb	217	2
43)	40.48	217.2	s3	22aa	167	2
44)	42.72	217.2	s3	22bb	128	1
45)	49.05	217.2	s3	27dbS	566	6
46)	49.69	217.2	s3	27dbR	413	4
47)	52.05	218.2	s3	27bbR	356	4
48)	52.20	218.2	s3	27bbS	213	2
49)	52.60	217.2	s3	27aaR	968	10
50)	53.80	218.2	s3	28bbR	194	2
51)	53.94	218.2	s3	28bbS	218	2
52)	54.91	217.2	s3	29aaS	216	2
53)	55.23	218.2	s3	29bbR	331	3
54)	55.32	218.2	s3	29bbS	228	2
55)	55.93	217.2	s3	29aaR	997	10
56)	56.39	218.2	s3	30bbR	43	0
57)	56.48	218.2	s3	30bbS	27	0

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: 2991_36S.D
 Sample name: 7216/11-1 S, 2991,36m SAT
 Data File Path: C:\HPCHEM\1\DATA\7216
 Misc. info.:

Vial no.: 6
 Method: MSD_S_E2
 Operator: annex
 Date: 1 Nov 2000 22:35

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	18	19
$100 \cdot 20/3 / ((\text{sum}20-25)/3+26/3(R+S))$	%20/3	12	12
$100 \cdot 23/3 / (23/3+24/3+25/3)$	%23/3	53	53
$100 \cdot 24/4 / (24/4+24/3+25/3)$	%24/4	59	59
$100 \cdot Ts / (Ts+Tm)$	%27Ts	43	43
$100 \cdot 28ab / (28ab+30ab)$	%28ab	29	38
$100 \cdot 29Ts / (29Ts+29ab)$	%29Ts	71	71
$100 \cdot 25nor30ab / (25nor30ab+30ab)$	%25nor30ab	81	87
$100 \cdot 29ab / (29ab+30ab)$	%29ab	44	55
$100 \cdot 30ba / (30ba+30ab)$	%30ba	35	35
$100 \cdot 30D / (30D+30ab)$	%30D	33	43
$100 \cdot 30G / (30G+30ab)$	%30G	24	34
$100 \cdot 32abS / (32ab(S+R))$	%32abS	56	56
$100 \cdot 35ab(S+R) / (34-35ab(S+R))$	%35ab	34	34
$100 \cdot (27Ts+27Tm) / (27Ts+27Tm+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%27HOP	31	32
$100 \cdot (28ab) / (27Ts+27Tm+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%28HOP	4	4
$100 \cdot (29ab+ba) / (27Ts+27Tm+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%29HOP	15	16
$100 \cdot (30ab+ba) / (27Ts+27Tm+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%30HOP	15	10
$100 \cdot 31ab(S+R) / (27Ts+27Tm+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%31HOP	10	11
$100 \cdot 32ab(S+R) / (27Ts+27Tm+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%32HOP	10	11
$100 \cdot 33ab(S+R) / (27Ts+27Tm+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%33HOP	8	9
$100 \cdot 34ab(S+R) / (27Ts+27Tm+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%34HOP	4	4
$100 \cdot 35ab(S+R) / (27Ts+27Tm+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%35HOP	2	2

Sterane ratios

$100 \cdot (21+22)bb / ((21+22)bb+(27+28+29+30)bb(R+S))$	%Preg	18	18
$100 \cdot 29aaS / 29aa(R+S)$	%29aaS	18	18
$100 \cdot 29bb(R+S) / (29bb(R+S)+29aa(S+R))$	%29bb	32	32
$100 \cdot 27db(S+R) / ((27db(S+R)+27bb(R+S))$	%27dia	63	63
$100 \cdot 27bb(R+S) / (27+28+29+30)bb(R+S)$	%27STER	35	35
$100 \cdot 28bb(R+S) / (27+28+29+30)bb(R+S)$	%28STER	26	26
$100 \cdot 29bb(R+S) / (27+28+29+30)bb(R+S)$	%29STER	35	35
$100 \cdot 30bb(R+S) / (27+28+29+30)bb(R+S)$	%30STER	4	4

Hopanes/Steranes ratio-2 (only bb steranes)

Ho/St2	4	2
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#	Rt.min.	m/z	Rf.	Name	Height	Amount ng/mg
Diterpanes:						
2)	34.14	191.2	s1	19/3	3040	16
3)	36.14	191.2	s1	20/3	1783	9
4)	38.17	191.2	s1	21/3	1309	7
5)	42.15	191.2	s1	23/3	1616	8
6)	43.28	191.2	s1	24/3	1574	8
7)	45.56	191.2	s1	25/3	368	2
8)	47.10	191.2	s1	24/4	3591	18
9)	47.19	191.2	s1	26/3R	394	2
10)	47.33	191.2	s1	26/3S	481	2
11)	50.86	191.2	s1	28/3R	301	2
12)	51.15	191.2	s1	28/3S	310	2
13)	51.89	191.2	s1	29/3R	492	3
14)	52.20	191.2	s1	29/3S	535	3
Triterpanes:						
15)	53.07	191.2	s1	27Ts	5978	31
16)	53.33	177.15	s1	25nor28ab	13864	71
17)	53.75	191.2	s1	27Tm	11621	60
18)	54.12	177.15	s1	25nor29ab	38479	198
19)	54.21	191.2	s1	27b	659	3
20)	55.29	191.2	s1	28ab	3179	16
21)	55.54	177.15	s1	25nor30ab	30164	155
22)	56.01	191.2	s1	29ab	3595	19
23)	56.14	191.2	s1	29Ts	12426	64
24)	56.36	191.2	s1	30D	2936	15
25)	56.82	191.2	s1	29ba	5730	29
26)	57.37	191.2	s2	30ab	3412	11
27)	57.74	191.2	s1	30D13	3426	18
28)	58.01	191.2	s2	30ba	5674	19
29)	58.97	191.2	s1	31abS	3280	17
30)	59.17	191.2	s1	31abR	1450	7
31)	59.50	191.2	s1	30G	2048	11
32)	59.69	191.2	s1	31ba	1934	10
33)	60.20	191.2	s1	32abS	4913	25
34)	60.47	191.2	s1	32abR	3982	20
35)	61.64	191.2	s1	33abS	3468	18
36)	62.01	191.2	s1	33abR	2854	15
37)	63.19	191.2	s1	34abS	1619	8
38)	63.72	191.2	s1	34abR	1280	7
39)	64.99	191.2	s1	35abS	683	4
40)	65.72	191.2	s1	35abR	620	3

Saturated biomarkers

GC/MS detection HP-6890/5973
Compound data



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

Data file name: 2991_43S.D
Sample name: 7216/11-1 S 2991,43m
Data File Path: C:\HPCHEM\1\DATA\WAM_BAS
Misc. info.:

Vial no.: 6
Method: MSD_S_E2
Operator: ANNE-KARIN
Date: 7 Dec 2000 10:13

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	1423	11
42)	40.35	217.2	s3	21bb	1551	12
43)	40.47	217.2	s3	22aa	1323	10
44)	42.71	217.2	s3	22bb	866	6
45)	49.04	217.2	s3	27dbS	5332	40
46)	49.67	217.2	s3	27dbR	3876	29
47)	52.03	218.2	s3	27bbR	2980	22
48)	52.18	218.2	s3	27bbS	1703	13
49)	52.59	217.2	s3	27aaR	12216	91
50)	53.78	218.2	s3	28bbR	2273	17
51)	53.93	218.2	s3	28bbS	1855	14
52)	54.91	217.2	s3	29aaS	2415	18
53)	55.22	218.2	s3	29bbR	3388	25
54)	55.31	218.2	s3	29bbS	2200	16
55)	55.93	217.2	s3	29aaR	14840	110
56)	56.38	218.2	s3	30bbR	379	3
57)	56.45	218.2	s3	30bbS	471	4

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: 2991_43S.D
Sample name: 7216/11-1 S 2991,43m
Data File Path: C:\HPCHEM\1\DATA\NAM_BAS\
Misc. info.:

Vial no.: 6
Method: MSD_S_E2
Operator: ANNE-KARIN
Date: 7 Dec 2000 10:13

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	11	11
$100 \cdot 20/3 / ((\text{sum}20-25)/3+26/3(R+S))$	%20/3	24	24
$100 \cdot 23/3 / (23/3+24/3+25/3)$	%23/3	45	45
$100 \cdot 24/4 / (24/4+24/3+25/3)$	%24/4	65	65
$100 \cdot Ts / (Ts+Tm)$	%27Ts	34	34
$100 \cdot 28ab / (28ab+30ab)$	%28ab	48	59
$100 \cdot 29Ts / (29Ts+29ab)$	%29Ts	76	78
$100 \cdot 25nor30ab / (25nor30ab+30ab)$	%25nor30ab	90	93
$100 \cdot 29ab / (29ab+30ab)$	%29ab	51	62
$100 \cdot 30ba / (30ba+30ab)$	%30ba	62	62
$100 \cdot 30D / (30D+30ab)$	%30D	46	57
$100 \cdot 30G / (30G+30ab)$	%30G	38	48
$100 \cdot 32abS / (32ab(S+R))$	%32abS	55	55
$100 \cdot 35ab(S+R) / (34-35ab(S+R))$	%35ab	31	31
$100 \cdot (27Ts+27Tm) / (27Ts+27Tm+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%27HOP	28	29
$100 \cdot (28ab) / (27Ts+27Tm+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%28HOP	5	5
$100 \cdot (29ab+ba) / (27Ts+27Tm+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%29HOP	15	16
$100 \cdot (30ab+ba) / (27Ts+27Tm+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%30HOP	14	10
$100 \cdot 31ab(S+R) / (27Ts+27Tm+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%31HOP	7	8
$100 \cdot 32ab(S+R) / (27Ts+27Tm+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%32HOP	14	15
$100 \cdot 33ab(S+R) / (27Ts+27Tm+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%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	5
$100 \cdot 35ab(S+R) / (27Ts+27Tm+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%35HOP	2	2

Sterane ratios

$100 \cdot (21+22)bb / ((21+22)bb+(27+28+29+30)bb(R+S))$	%Preg	14	14
$100 \cdot 29aaS / 29aa(R+S)$	%29aaS	14	14
$100 \cdot 29bb(R+S) / (29bb(R+S)+29aa(S+R))$	%29bb	24	24
$100 \cdot 27db(S+R) / ((27db(S+R)+27bb(R+S))$	%27dia	66	66
$100 \cdot 27bb(R+S) / (27+28+29+30)bb(R+S)$	%27STER	31	31
$100 \cdot 28bb(R+S) / (27+28+29+30)bb(R+S)$	%28STER	27	27
$100 \cdot 29bb(R+S) / (27+28+29+30)bb(R+S)$	%29STER	37	37
$100 \cdot 30bb(R+S) / (27+28+29+30)bb(R+S)$	%30STER	6	6

Hopanes/Steranes ratio-2 (only bb steranes)

Ho/St2	4	3
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#	Rt.min.	m/z	Rf.	Name	Height	Amount
						ng/mg
Diterpanes:						
2)	34.21	191.2	s1	19/3	7346	59
3)	36.20	191.2	s1	20/3	4022	33
4)	38.24	191.2	s1	21/3	2714	22
5)	42.21	191.2	s1	23/3	3458	28
6)	43.33	191.2	s1	24/3	3531	29
7)	45.63	191.2	s1	25/3	892	7
8)	47.16	191.2	s1	24/4	8510	69
9)	47.26	191.2	s1	26/3R	722	6
10)	47.38	191.2	s1	26/3S	978	8
11)	50.93	191.2	s1	28/3R	446	4
12)	51.20	191.2	s1	28/3S	607	5
13)	51.96	191.2	s1	29/3R	1039	8
14)	52.26	191.2	s1	29/3S	1237	10
Triterpanes:						
15)	53.14	191.2	s1	27Ts	14058	114
16)	53.40	177.15	s1	25nor28ab	31960	258
17)	53.82	191.2	s1	27Tm	28817	233
18)	54.21	177.15	s1	25nor29ab	117536	950
19)	54.20	191.2	s1	27b	11467	93
20)	55.39	191.2	s1	28ab	4332	35
21)	55.63	177.15	s1	25nor30ab	98327	795
22)	56.08	191.2	s1	29ab	8016	65
23)	56.23	191.2	s1	29Ts	30670	248
24)	56.42	191.2	s1	30D	7758	63
25)	56.88	191.2	s1	29ba	10838	88
26)	57.44	191.2	s2	30ab	8335	43
27)	57.80	191.2	s1	30D13	10056	81
28)	58.08	191.2	s2	30ba	7834	41
29)	59.03	191.2	s1	31abS	7004	57
30)	59.22	191.2	s1	31abR	2130	17
31)	59.56	191.2	s1	30G	7056	57
32)	59.73	191.2	s1	31ba	3286	27
33)	60.26	191.2	s1	32abS	9502	77
34)	60.53	191.2	s1	32abR	6698	54
35)	61.69	191.2	s1	33abS	8016	65
36)	62.05	191.2	s1	33abR	5958	48
37)	63.24	191.2	s1	34abS	3762	30
38)	63.76	191.2	s1	34abR	2855	23
39)	65.04	191.2	s1	35abS	1739	14
40)	65.78	191.2	s1	35abR	1702	14

Saturated biomarkers

GC/MS detection HP-6890/5973
Compound data



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

Data file name: 2991_45S.D
Sample name: 7216/11-1 S, 2991,45m SAT
Data File Path: C:\HPCHEM\1\DATA\7216\
Misc. info.:

Vial no.: 7
Method: MSD_S_E2
Operator: annek
Date: 2 Nov 2000 00:03

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)	38.73	217.2	s3	21aa	3183	37
42)	40.41	217.2	s3	21bb	3377	39
43)	40.53	217.2	s3	22aa	2723	32
44)	42.76	217.2	s3	22bb	1797	21
45)	49.09	217.2	s3	27dbS	13059	152
46)	49.73	217.2	s3	27dbR	9013	105
47)	52.09	218.2	s3	27bbR	7476	87
48)	52.25	218.2	s3	27bbS	4038	47
49)	52.66	217.2	s3	27aaR	31622	369
50)	53.86	218.2	s3	28bbR	6655	78
51)	53.99	218.2	s3	28bbS	5121	60
52)	54.97	217.2	s3	29aaS	6498	76
53)	55.30	218.2	s3	29bbR	8659	101
54)	55.38	218.2	s3	29bbS	5363	63
55)	55.99	217.2	s3	29aaR	41972	490
56)	56.44	218.2	s3	30bbR	581	7
57)	56.50	218.2	s3	30bbS	1187	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: 2991_45S.D
Sample name: 7216/11-1 S, 2991,45m SAT
Data File Path: C:\HPCHEM\1\DATA\7216\
Misc. info.:

Vial no.: 7
Method: MSD_S_E2
Operator: annek
Date: 2 Nov 2000 00:03

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	11	11
$100 \cdot 20/3 / ((\text{sum}20-25)/3 + 26/3(R+S))$	%20/3	25	25
$100 \cdot 23/3 / (23/3 + 24/3 + 25/3)$	%23/3	44	44
$100 \cdot 24/4 / (24/4 + 24/3 + 25/3)$	%24/4	66	66
$100 \cdot Ts / (Ts + Tm)$	%27Ts	33	33
$100 \cdot 28ab / (28ab + 30ab)$	%28ab	34	45
$100 \cdot 29Ts / (29Ts + 29ab)$	%29Ts	79	79
$100 \cdot 25nor30ab / (25nor30ab + 30ab)$	%25nor30ab	92	95
$100 \cdot 29ab / (29ab + 30ab)$	%29ab	49	60
$100 \cdot 30ba / (30ba + 30ab)$	%30ba	48	48
$100 \cdot 30D / (30D + 30ab)$	%30D	48	59
$100 \cdot 30G / (30G + 30ab)$	%30G	46	57
$100 \cdot 32abS / (32ab(S+R))$	%32abS	59	59
$100 \cdot 35ab(S+R) / (34-35ab(S+R))$	%35ab	34	34
$100 \cdot (27Ts + 27Tm) / (27Ts + 27Tm + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%27HOP	33	34
$100 \cdot (28ab) / (27Ts + 27Tm + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%28HOP	3	3
$100 \cdot (29ab + ba) / (27Ts + 27Tm + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%29HOP	14	15
$100 \cdot (30ab + ba) / (27Ts + 27Tm + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%30HOP	12	8
$100 \cdot 31ab(S+R) / (27Ts + 27Tm + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%31HOP	7	7
$100 \cdot 32ab(S+R) / (27Ts + 27Tm + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%32HOP	12	13
$100 \cdot 33ab(S+R) / (27Ts + 27Tm + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%33HOP	11	11
$100 \cdot 34ab(S+R) / (27Ts + 27Tm + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%34HOP	5	5
$100 \cdot 35ab(S+R) / (27Ts + 27Tm + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%35HOP	3	3
Sterane ratios			
$100 \cdot (21+22)bb / ((21+22)bb + (27+28+29+30)bb(R+S))$	%Preg	12	12
$100 \cdot 29aaS / 29aa(R+S)$	%29aaS	13	13
$100 \cdot 29bb(R+S) / (29bb(R+S) + 29aa(S+R))$	%29bb	22	22
$100 \cdot 27db(S+R) / ((27db(S+R) + 27bb(R+S))$	%27dia	66	66
$100 \cdot 27bb(R+S) / (27+28+29+30)bb(R+S)$	%27STER	29	29
$100 \cdot 28bb(R+S) / (27+28+29+30)bb(R+S)$	%28STER	30	30
$100 \cdot 29bb(R+S) / (27+28+29+30)bb(R+S)$	%29STER	36	36
$100 \cdot 30bb(R+S) / (27+28+29+30)bb(R+S)$	%30STER	5	5
Hopanes/Steranes ratio-2 (only bb steranes)	Ho/St2	3	2

#	Rt.min.	m/z	Rf.	Name	Height	Amount ng/mg
Diterpanes:						
2)	34.17	191.2	s1	19/3	7142	49
3)	36.16	191.2	s1	20/3	3752	26
4)	38.20	191.2	s1	21/3	2575	18
5)	42.18	191.2	s1	23/3	3208	22
6)	43.30	191.2	s1	24/3	3408	24
7)	45.59	191.2	s1	25/3	743	5
8)	47.13	191.2	s1	24/4	8138	56
9)	47.22	191.2	s1	26/3R	800	6
10)	47.35	191.2	s1	26/3S	998	7
11)	50.87	191.2	s1	28/3R	578	4
12)	51.16	191.2	s1	28/3S	696	5
13)	51.93	191.2	s1	29/3R	982	7
14)	52.24	191.2	s1	29/3S	1253	9
Triterpanes:						
15)	53.10	191.2	s1	27Ts	13586	94
16)	53.37	177.15	s1	25nor28ab	36416	252
17)	53.79	191.2	s1	27Tm	28864	199
18)	54.17	177.15	s1	25nor29ab	94536	653
19)	54.27	191.2	s1	27b	2577	18
20)	55.33	191.2	s1	28ab	9627	67
21)	55.59	177.15	s1	25nor30ab	77272	534
22)	56.05	191.2	s1	29ab	10165	70
23)	56.18	191.2	s1	29Ts	29864	206
24)	56.39	191.2	s1	30D	7485	52
25)	56.85	191.2	s1	29ba	10355	72
26)	57.41	191.2	s2	30ab	9392	42
27)	57.76	191.2	s1	30D13	9402	65
28)	58.04	191.2	s2	30ba	9287	41
29)	59.00	191.2	s1	31abS	11228	78
30)	59.19	191.2	s1	31abR	3673	25
31)	59.53	191.2	s1	30G	6826	47
32)	59.69	191.2	s1	31ba	3942	27
33)	60.22	191.2	s1	32abS	11571	80
34)	60.49	191.2	s1	32abR	8943	62
35)	61.66	191.2	s1	33abS	8618	60
36)	62.03	191.2	s1	33abR	6119	42
37)	63.21	191.2	s1	34abS	4010	28
38)	63.73	191.2	s1	34abR	3018	21
39)	65.02	191.2	s1	35abS	1671	12
40)	65.74	191.2	s1	35abR	1581	11

Saturated biomarkers

GC/MS detection: HP-6890/5973
Compound data



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

Data file name: 2991_50S.D
Sample name: 7216/11-1 S 2991,50m
Data File Path: C:\HPCHEM\1\DATA\NAM_BAS\
Misc. info.:

Vial no.: 7
Method: MSD_S_E2
Operator: ANNE-KARIN
Date: 7 Dec 2000 11:41

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)	38.70	217.2	s3	21aa	3073	31
42)	40.38	217.2	s3	21bb	3586	36
43)	40.49	217.2	s3	22aa	2681	27
44)	42.72	217.2	s3	22bb	1913	19
45)	49.07	217.2	s3	27dbS	11865	118
46)	49.70	217.2	s3	27dbR	8547	85
47)	52.07	218.2	s3	27bbR	6883	69
48)	52.22	218.2	s3	27bbS	4163	42
49)	52.62	217.2	s3	27aaR	30636	306
50)	53.82	218.2	s3	28bbR	5907	59
51)	53.96	218.2	s3	28bbS	4478	45
52)	54.94	217.2	s3	29aaS	6323	63
53)	55.25	218.2	s3	29bbR	7779	78
54)	55.36	218.2	s3	29bbS	5621	56
55)	55.97	217.2	s3	29aaR	39750	397
56)	56.41	218.2	s3	30bbR	840	8
57)	56.48	218.2	s3	30bbS	1468	15

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: 2991_50S.D
Sample name: 7216/11-1 S 2991,50m
Data File Path: C:\HPCHEM\1\DATA\WAM_BAS
Misc. info.:

Vial no.: 7
Method: MSD_S_E2
Operator: ANNE-KARIN
Date: 7 Dec 2000 11:41

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	9	10
$100 \cdot 20/3 / ((\text{sum}20-25)/3+26/3(R+S))$	%20/3	24	24
$100 \cdot 23/3 / (23/3+24/3+25/3)$	%23/3	44	44
$100 \cdot 24/4 / (24/4+24/3+25/3)$	%24/4	66	66
$100 \cdot Ts / (Ts+Tm)$	%27Ts	32	32
$100 \cdot 28ab / (28ab+30ab)$	%28ab	51	61
$100 \cdot 29Ts / (29Ts+29ab)$	%29Ts	75	75
$100 \cdot 25nor30ab / (25nor30ab+30ab)$	%25nor30ab	89	93
$100 \cdot 29ab / (29ab+30ab)$	%29ab	52	63
$100 \cdot 30ba / (30ba+30ab)$	%30ba	50	50
$100 \cdot 30D / (30D+30ab)$	%30D	44	55
$100 \cdot 30G / (30G+30ab)$	%30G	42	53
$100 \cdot 32abS / (32ab(S+R))$	%32abS	56	56
$100 \cdot 35ab(S+R) / (34-35ab(S+R))$	%35ab	32	32
$100 \cdot (27Ts+27Tm) / (27Ts+27Tm+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%27HOP	28	29
$100 \cdot (28ab) / (27Ts+27Tm+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%28HOP	6	7
$100 \cdot (29ab+ba) / (27Ts+27Tm+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%29HOP	14	14
$100 \cdot (30ab+ba) / (27Ts+27Tm+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%30HOP	12	8
$100 \cdot 31ab(S+R) / (27Ts+27Tm+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%31HOP	10	10
$100 \cdot 32ab(S+R) / (27Ts+27Tm+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%32HOP	14	14
$100 \cdot 33ab(S+R) / (27Ts+27Tm+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%33HOP	10	10
$100 \cdot 34ab(S+R) / (27Ts+27Tm+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%34HOP	5	5
$100 \cdot 35ab(S+R) / (27Ts+27Tm+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%35HOP	2	2
Sterane ratios			
$100 \cdot (21+22)bb / ((21+22)bb+(27+28+29+30)bb(R+S))$	%Preg	13	13
$100 \cdot 29aaS / (29aaS+29aa(R+S))$	%29aaS	14	14
$100 \cdot 29bb(R+S) / (29bb(R+S)+29aa(S+R))$	%29bb	23	23
$100 \cdot 27db(S+R) / ((27db(S+R)+27bb(R+S)))$	%27dia	65	65
$100 \cdot 27bb(R+S) / (27+28+29+30)bb(R+S)$	%27STER	30	30
$100 \cdot 28bb(R+S) / (27+28+29+30)bb(R+S)$	%28STER	28	28
$100 \cdot 29bb(R+S) / (27+28+29+30)bb(R+S)$	%29STER	36	36
$100 \cdot 30bb(R+S) / (27+28+29+30)bb(R+S)$	%30STER	6	6
Hopanes/Steranes ratio-2 (only bb steranes)	Ho/St2	4	3

#	Rt.min.	m/z	Rf.	Name	Height	Amount ng/mg
Diterpanes:						
2)	34.16	191.2	s1	19/3	117	1
3)	36.14	191.2	s1	20/3	62	0
4)	38.19	191.2	s1	21/3	57	0
5)	42.16	191.2	s1	23/3	98	1
6)	43.29	191.2	s1	24/3	71	1
7)	45.57	191.2	s1	25/3	29	0
8)	47.11	191.2	s1	24/4	149	1
9)	47.20	191.2	s1	26/3R	23	0
10)	47.33	191.2	s1	26/3S	17	0
11)	50.87	191.2	s1	28/3R	19	0
12)	51.11	191.2	s1	28/3S	18	0
13)	51.90	191.2	s1	29/3R	23	0
14)	52.21	191.2	s1	29/3S	14	0
Triterpanes:						
15)	53.08	191.2	s1	27Ts	178	1
16)	53.33	177.15	s1	25nor28ab	1301	10
17)	53.76	191.2	s1	27Tm	294	2
18)	54.12	177.15	s1	25nor29ab	536	4
19)	54.23	191.2	s1	27b	10	0
20)	55.28	191.2	s1	28ab	1028	8
21)	55.53	177.15	s1	25nor30ab	349	3
22)	56.01	191.2	s1	29ab	252	2
23)	56.12	191.2	s1	29Ts	250	2
24)	56.36	191.2	s1	30D	63	0
25)	56.82	191.2	s1	29ba	168	1
26)	57.39	191.2	s2	30ab	373	2
27)	57.73	191.2	s1	30D13	71	1
28)	58.01	191.2	s2	30ba	78	0
29)	58.98	191.2	s1	31abS	120	1
30)	59.18	191.2	s1	31abR	121	1
31)	59.52	191.2	s1	30G	50	0
32)	59.69	191.2	s1	31ba	46	0
33)	60.23	191.2	s1	32abS	84	1
34)	60.50	191.2	s1	32abR	75	1
35)	61.66	191.2	s1	33abS	64	0
36)	62.01	191.2	s1	33abR	54	0
37)	63.23	191.2	s1	34abS	37	0
38)	63.73	191.2	s1	34abR	30	0
39)	65.01	191.2	s1	35abS	28	0
40)	65.72	191.2	s1	35abR	18	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: 2991_93S.D
Sample name: 7216/11-1 S, 2991,93m SAT
Data File Path: C:\HPCHEM\1\DATA\7216\
Misc. info.:

Vial no.: 8
Method: MSD_S_E2
Operator: annek
Date: 2 Nov 2000 1:31

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	50	1
42)	40.36	217.2	s3	21bb	71	1
43)	40.47	217.2	s3	22aa	50	1
44)	42.72	217.2	s3	22bb	39	0
45)	49.05	217.2	s3	27dbS	125	1
46)	49.68	217.2	s3	27dbR	87	1
47)	52.03	218.2	s3	27bbR	70	1
48)	52.19	218.2	s3	27bbS	50	1
49)	52.59	217.2	s3	27aaR	174	2
50)	53.78	218.2	s3	28bbR	56	1
51)	53.93	218.2	s3	28bbS	49	1
52)	54.92	217.2	s3	29aaS	40	0
53)	55.21	218.2	s3	29bbR	66	1
54)	55.30	218.2	s3	29bbS	61	1
55)	55.93	217.2	s3	29aaR	206	2
56)	56.40	218.2	s3	30bbR	14	0
57)	56.43	218.2	s3	30bbS	12	0

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: 2991_93S.D
Sample name: 7216/11-1 S, 2991,93m SAT
Data File Path: C:\HPCHEM\1\DATA\7216
Misc. info.:

Vial no.: 8
Method: MSD_S_E2
Operator: annek
Date: 2 Nov 2000 1:31

Terpane ratios, heights and amounts

		Height	Amount
$100 \cdot ((\text{sum}20-25)/3+26/3(\text{R+S})) / ((\text{sum}20-25)/3+26/3(\text{R+S})+27(\text{Ts+Tm})+28\text{ab}+\text{sum}29-30(\text{ab+ba})+\text{sum}31-35\text{ab}(\text{R+S}))$	%Tri	11	11
$100 \cdot 20/3 / ((\text{sum}20-25)/3+26/3(\text{R+S}))$	%20/3	17	17
$100 \cdot 23/3 / (23/3+24/3+25/3)$	%23/3	49	49
$100 \cdot 24/4 / (24/4+24/3+25/3)$	%24/4	60	60
$100 \cdot \text{Ts} / (\text{Ts+Tm})$	%27Ts	38	38
$100 \cdot 28\text{ab} / (28\text{ab}+30\text{ab})$	%28ab	73	81
$100 \cdot 29\text{Ts} / (29\text{Ts}+29\text{ab})$	%29Ts	50	50
$100 \cdot 25\text{nor}30\text{ab} / (25\text{nor}30\text{ab}+30\text{ab})$	%25nor30ab	48	59
$100 \cdot 29\text{ab} / (29\text{ab}+30\text{ab})$	%29ab	40	51
$100 \cdot 30\text{ba} / (30\text{ba}+30\text{ab})$	%30ba	17	17
$100 \cdot 30\text{D} / (30\text{D}+30\text{ab})$	%30D	14	21
$100 \cdot 30\text{G} / (30\text{G}+30\text{ab})$	%30G	12	17
$100 \cdot 32\text{abS} / (32\text{ab}(\text{S+R}))$	%32abS	53	53
$100 \cdot 35\text{ab}(\text{S+R}) / (34-35\text{ab}(\text{S+R}))$	%35ab	41	41
$100 \cdot (27\text{Ts}+27\text{Tm}) / (27\text{Ts}+27\text{Tm}+28\text{ab}+\text{sum}29-30(\text{ab+ba})+\text{sum}31-35\text{ab}(\text{R+S}))$	%27HOP	16	17
$100 \cdot (28\text{ab}) / (27\text{Ts}+27\text{Tm}+28\text{ab}+\text{sum}29-30(\text{ab+ba})+\text{sum}31-35\text{ab}(\text{R+S}))$	%28HOP	34	36
$100 \cdot (29\text{ab+ba}) / (27\text{Ts}+27\text{Tm}+28\text{ab}+\text{sum}29-30(\text{ab+ba})+\text{sum}31-35\text{ab}(\text{R+S}))$	%29HOP	14	15
$100 \cdot (30\text{ab+ba}) / (27\text{Ts}+27\text{Tm}+28\text{ab}+\text{sum}29-30(\text{ab+ba})+\text{sum}31-35\text{ab}(\text{R+S}))$	%30HOP	15	10
$100 \cdot 31\text{ab}(\text{S+R}) / (27\text{Ts}+27\text{Tm}+28\text{ab}+\text{sum}29-30(\text{ab+ba})+\text{sum}31-35\text{ab}(\text{R+S}))$	%31HOP	8	8
$100 \cdot 32\text{ab}(\text{S+R}) / (27\text{Ts}+27\text{Tm}+28\text{ab}+\text{sum}29-30(\text{ab+ba})+\text{sum}31-35\text{ab}(\text{R+S}))$	%32HOP	5	6
$100 \cdot 33\text{ab}(\text{S+R}) / (27\text{Ts}+27\text{Tm}+28\text{ab}+\text{sum}29-30(\text{ab+ba})+\text{sum}31-35\text{ab}(\text{R+S}))$	%33HOP	4	4
$100 \cdot 34\text{ab}(\text{S+R}) / (27\text{Ts}+27\text{Tm}+28\text{ab}+\text{sum}29-30(\text{ab+ba})+\text{sum}31-35\text{ab}(\text{R+S}))$	%34HOP	2	2
$100 \cdot 35\text{ab}(\text{S+R}) / (27\text{Ts}+27\text{Tm}+28\text{ab}+\text{sum}29-30(\text{ab+ba})+\text{sum}31-35\text{ab}(\text{R+S}))$	%35HOP	2	2

Sterane ratios

$100 \cdot (21+22)\text{bb} / ((21+22)\text{bb}+(27+28+29+30)\text{bb}(\text{R+S}))$	%Preg	23	23
$100 \cdot 29\text{aaS} / 29\text{aa}(\text{R+S})$	%29aaS	16	16
$100 \cdot 29\text{bb}(\text{R+S}) / (29\text{bb}(\text{R+S})+29\text{aa}(\text{S+R}))$	%29bb	34	34
$100 \cdot 27\text{db}(\text{S+R}) / ((27\text{db}(\text{S+R})+27\text{bb}(\text{R+S})))$	%27dia	64	64
$100 \cdot 27\text{bb}(\text{R+S}) / (27+28+29+30)\text{bb}(\text{R+S})$	%27STER	32	32
$100 \cdot 28\text{bb}(\text{R+S}) / (27+28+29+30)\text{bb}(\text{R+S})$	%28STER	28	28
$100 \cdot 29\text{bb}(\text{R+S}) / (27+28+29+30)\text{bb}(\text{R+S})$	%29STER	34	34
$100 \cdot 30\text{bb}(\text{R+S}) / (27+28+29+30)\text{bb}(\text{R+S})$	%30STER	7	7

Hopanes/Steranes ratio-2 (only bb steranes)

Ho/St2	8	5
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