



Document Id. : R-EUG-0234
 Reference Code :
 Date : AUGUST 1993
 Revision Number :

Title

GEOCHEMICAL DATA REPORT FOR WELL 6407/1-2

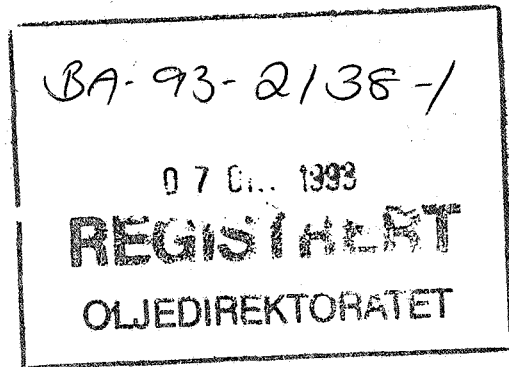
Authors(s)

VENCHE BJERKREIM PEDERSEN

Abstract

41 samples from the cored interval in well 6407/1-2 have been analysed by Iatroscan (TCL-FID). 3 samples were analysed by GC-FID and GC/MS.

NOT INCLUDED IN WELL TRADE.



Key Words

6407/1-2, geochemistry, Iatroscan, GC-FID, GC/MS

Classification: Free Saga and partners Internal Confidential Strictly confidential

Org. Unit	EUG				
Reviewed	N. Mills <i>N. Mills</i>				
Accepted					
Approved	T. Heitand <i>T. Heitand</i>				

Hovedkontor/Head Office Oslo:

Adresse/Address: Kjerboveien 16, Postboks 490, N-1301 SANDVIKA
 Telefon/Telephone: Nasjonalt 67 12 66 00, Intern. +47 67 12 66 00

Teleks/Telex: 78852 Saga n
 Telefon: Nasjonalt 67 126666, Intern. +47 67 126666

Driftsdivisjon/Operations Division Stavanger:

Adresse/Address: Godesettdalen 8, Postboks 117, N-4003 FORUS
 Telefon/Telephone: Nasjonalt 04 57 40 00, Intern. +47 4 57 40 00

Teleks/Telex: 33244 sagap n
 Telefon: Nasjonalt 04 570261, Intern. +47 4 570261

1 Objectives

The objective of this study was to characterise the extractable hydrocarbons in 41 core samples from well 6407/1-2.

2 General well information

The well was drilled by Statoil as operator of licence 073 from 13.11.82 to 15.5.83 and reached a total depth of 4560 mRKB. The KB of the rig was 29 metres and the water depth was 273 metres.

3 Samples and analytical scheme

41 samples were picked from the cored interval in August 1991. All samples were analysed by Iatroscan (TLC-FID), and the saturated hydrocarbon fractions of 3 samples were analysed by GC-FID and GC/MS.

4 Vitrinite reflectance

No samples were analysed.

5 TOC and Rock Eval

No samples were analysed.

6 Iatroscan (TLC-FID)

41 samples were analysed, and the results are tabulated in Table 1.

7 GC-FID

The saturated hydrocarbon fractions from 3 samples were analysed by Saga Petroleum a.s.. The GC-FID chromatograms are shown in figure 1.

8 GC/MS

The GC/MS analyses were performed by Saga Petroleum a.s. The saturated hydrocarbon fractions from the samples were analysed by GC/MS and the mass chromatograms for m/z 191, 177, 217 and 218 are shown in figure 2. Selected biological marker parameters manually measured by Saga are given in table 2.

9 Stable carbon isotopes

No samples were analysed.

Table 1.

SAGLAB RESULTS MANAGEMENT : EXTRACTION ANALYSIS RESULTS in mg/g Rock

Data for Well 6407/1-2

Page 1

Type	St.Depth	En.Depth	Weight (g)	EOM mg/g Rock	EOM mg/g TOC	Sat (mg/g)	Aro (mg/g)	NSO (mg/g)	Asph (mg/g)	Polars (mg/g)	TOC (%)	M/I
CCP	3661.20	3661.20		4.03		2.81	1.12		0.01	0.09		I
CCP	3662.50	3662.50		4.50		3.60	0.81		0.01	0.09		I
CCP	3663.50	3663.50		2.39		1.62	0.76		0.00	0.01		I
CCP	3664.50	3664.50		1.54		0.99	0.49		0.00	0.05		I
CCP	3665.50	3665.50		3.42		2.27	1.07		0.00	0.08		I
CCP	3666.50	3666.50		2.05		1.60	0.45		0.00	0.00		I
CCP	3667.50	3667.50		4.96		3.66	1.12		0.00	0.17		I
CCP	3668.50	3668.50		1.66		1.29	0.31		0.00	0.05		I
CCP	3669.60	3669.60		5.19		3.27	1.75		0.01	0.15		I
CCP	3670.40	3670.40		2.91		1.98	0.85		0.01	0.07		I
CCP	3671.50	3671.50		4.06		2.70	1.27		0.01	0.09		I
CCP	3672.65	3672.65		2.64		1.83	0.65		0.09	0.07		I
CCP	3673.50	3673.50		2.70		1.82	0.81		0.01	0.06		I
CCP	3674.50	3674.50		2.69		1.79	0.80		0.03	0.07		I
CCP	3675.40	3675.40		2.60		1.80	0.74		0.01	0.05		I

41 Analyses selected ..., from the following search criteria:

Nat: NOR, Well: 6407/1-2, Depth
between: 0.000 and 99999.990 m,
MPLC: I

SAGLAB RESULTS MANAGEMENT : EXTRACTION ANALYSIS RESULTS in mg/g Rock

Data for Well 6407/1-2

Page 2

Type	St.Depth	En.Depth	Weight (g)	EOM mg/g Rock	EOM mg/g TOC	Sat (mg/g)	Aro (mg/g)	NSO (mg/g)	Asph (mg/g)	Polars (mg/g)	TOC (%)	M/I
CCP	3676.50	3676.50		3.58		2.41	1.09		0.01	0.07		I
CCP	3677.70	3677.70		2.41		1.71	0.62		0.01	0.07		I
CCP	3679.50	3679.50		4.53		3.02	1.40		0.01	0.10		I
CCP	3680.50	3680.50		4.52		3.06	1.35		0.00	0.11		I
CCP	3681.50	3681.50		3.75		2.52	1.12		0.01	0.09		I
CCP	3682.50	3682.50		3.12		2.14	0.88		0.01	0.08		I
CCP	3684.40	3684.40		1.82		1.23	0.52		0.01	0.06		I
CCP	3685.50	3685.50		2.63		2.24	0.30		0.00	0.09		I
CCP	3686.50	3686.50		5.26		3.36	1.80		0.00	0.10		I
CCP	3687.50	3687.50		7.08		4.55	2.37		0.01	0.15		I
CCP	3689.00	3689.00		7.14		4.25	2.73		0.01	0.15		I
CCP	3691.00	3691.00		5.39		3.12	2.15		0.01	0.11		I
CCP	3693.00	3693.00		5.96		3.92	1.88		0.00	0.15		I
CCP	3695.00	3695.00		3.24		2.20	0.92		0.01	0.10		I
CCP	3697.00	3697.00		5.30		3.60	1.51		0.03	0.16		I

41 Analyses selected ..., from the following search criteria:

Nat: NOR, Well: 6407/1-2, Depth
between: 0.000 and 99999.990 m,
MPLC: I

SAGLAB RESULTS MANAGEMENT : EXTRACTION ANALYSIS RESULTS in mg/g Rock

Data for Well 6407/1-2

Page 3

Type	St.Depth	En.Depth	Weight (g)	EOM mg/g Rock	EOM mg/g TOC	Sat (mg/g)	Aro (mg/g)	NSO (mg/g)	Asph (mg/g)	Polars (mg/g)	TOC (%)	M/I
CCP	3699.00	3699.00		4.03		2.81	1.07		0.03	0.12		I
CCP	3701.00	3701.00		3.33		2.26	0.94		0.02	0.11		I
CCP	3703.00	3703.00		2.71		2.05	0.54		0.03	0.09		I
CCP	3705.00	3705.00		3.66		2.70	0.85		0.00	0.11		I
CCP	3707.00	3707.00		2.65		2.04	0.48		0.01	0.11		I
CCP	3709.00	3709.00		0.09		0.08	0.00		0.01	0.01		I
CCP	3711.00	3711.00		5.47		3.71	1.56		0.05	0.14		I
CCP	3713.00	3713.00		0.08		0.06	0.00		0.01	0.01		I
CCP	3715.00	3715.00		0.09		0.03	0.06		0.00	0.00		I
CCP	3717.00	3717.00		0.16		0.07	0.08		0.01	0.01		I
CCP	3719.10	3719.10		0.20		0.05	0.14		0.00	0.01		I
Averages this Well:				3.31	0.00	2.25	0.96	0.00	0.01	0.08	0.00	
Averages all Wells:				3.31	0.00	2.25	0.96	0.00	0.01	0.08	0.00	

41 Analyses selected ..., from the following search criteria:

Nat: NOR, Well: 6407/1-2, Depth
between: 0.000 and 99999.990 m,
MPLC: I

Table 2.

0 well	1	2 nat	3 formation	4	5 upper depth	6 lower depth	7 sample type	8 Ts/Tm
1 6407/1-2	6407/1-2	nor	GARN	saga_sept92	3669.60	3669.6	ccp	1.400000
2 6407/1-2	6407/1-2	nor	GARN	saga_jan93	3689.00	3689.0	ccp	1.461538
3 6407/1-2	6407/1-2	nor	GARN	saga_jan93	3711.00	3711.0	ccp	1.050847

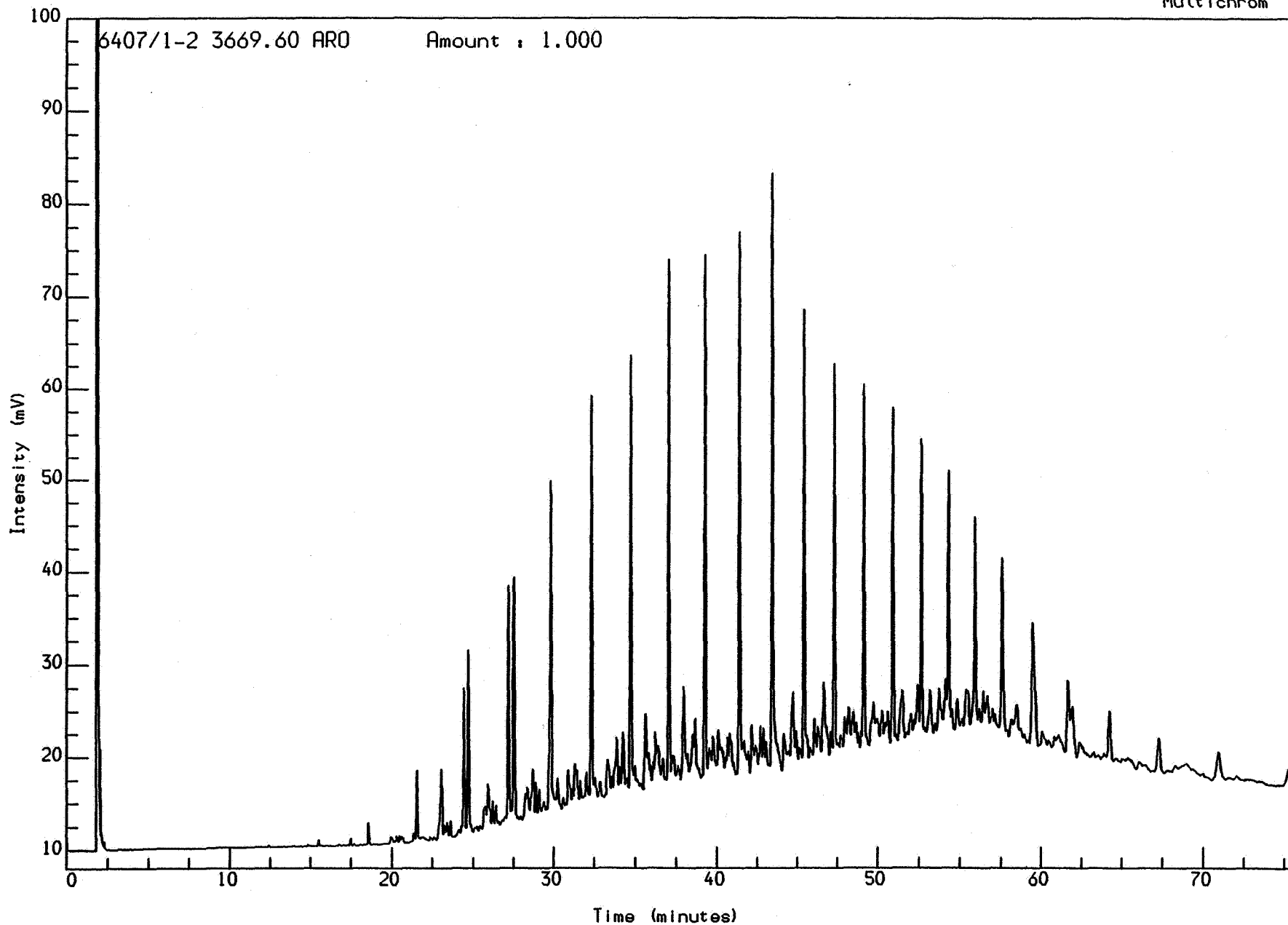
0 well	9 Z/C	10 Z/Z+E	11 X/E	12 X/X+D	13 E/E+F	14 22S	15 a/a+j	16 20S
1 6407/1-2	0.154545	0.060071	0.146617	0.780000	0.904762	58.791209	0.785507	0.564103
2 6407/1-2	0.308943	0.121019	0.137681	0.760000	0.899023	59.782609	0.808383	0.557047
3 6407/1-2	0.206897	0.125000	0.133333	0.538462	0.833333	57.377049	0.731034	0.545455

0 well	17 bbs 217	18 %C27 abbs	19 %C28 abbs	20 %C29 abbs
1 6407/1-2	0.530120	31.960461	32.948929	35.090610
2 6407/1-2	0.571839	31.520000	33.920000	34.560000
3 6407/1-2	0.548896	33.056133	31.600832	35.343035

Figure 1.

Analysis Name : [DEF-ROJECT] 3 S089,9,1.

Multichrom

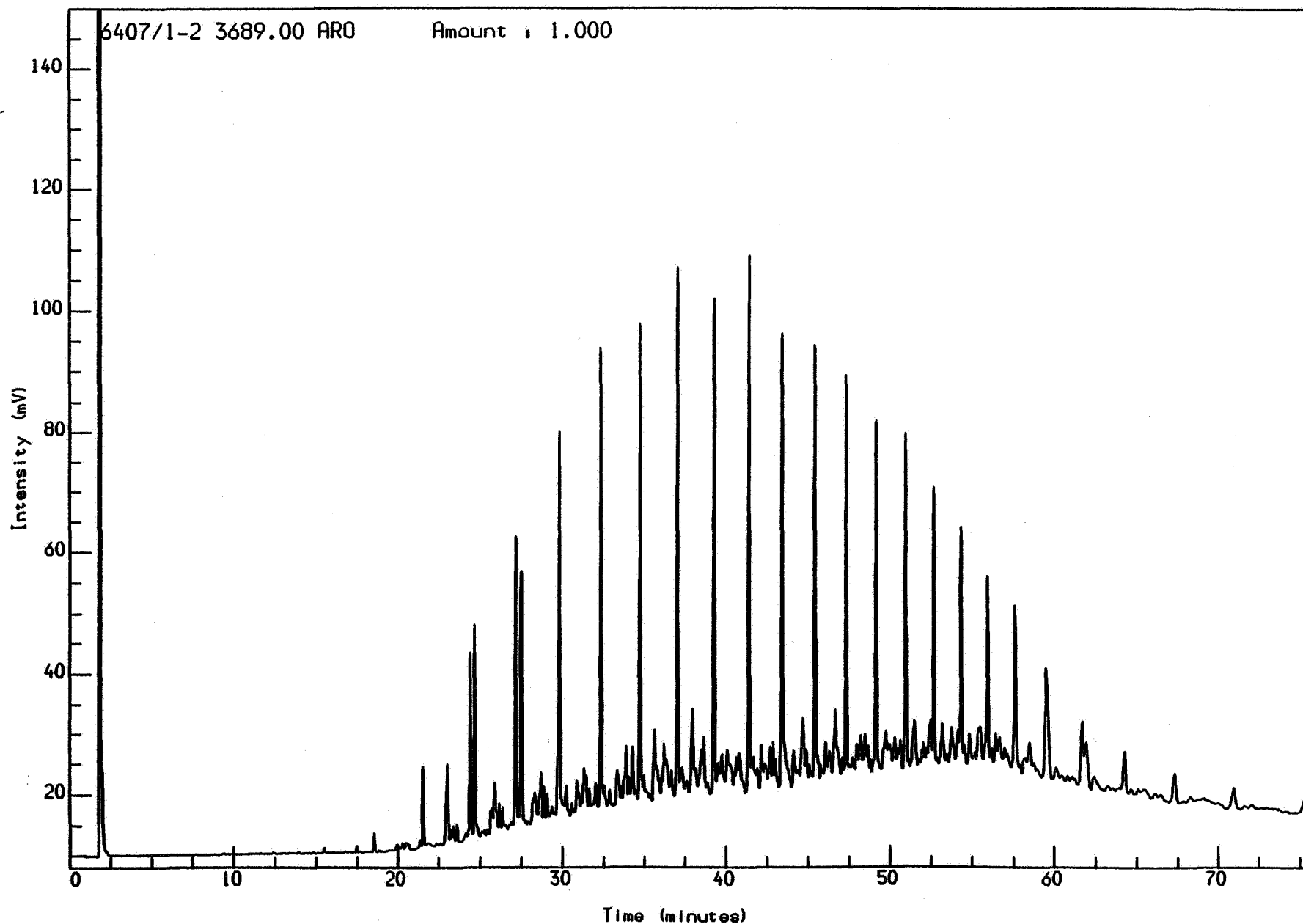


Acquired on 21-AUG-1992 at 22:04

Reported on 26-AUG-1992 at 09:13

Analysis Name : [DEF.ROJECT] 3 S089,8,1.

Multichrom

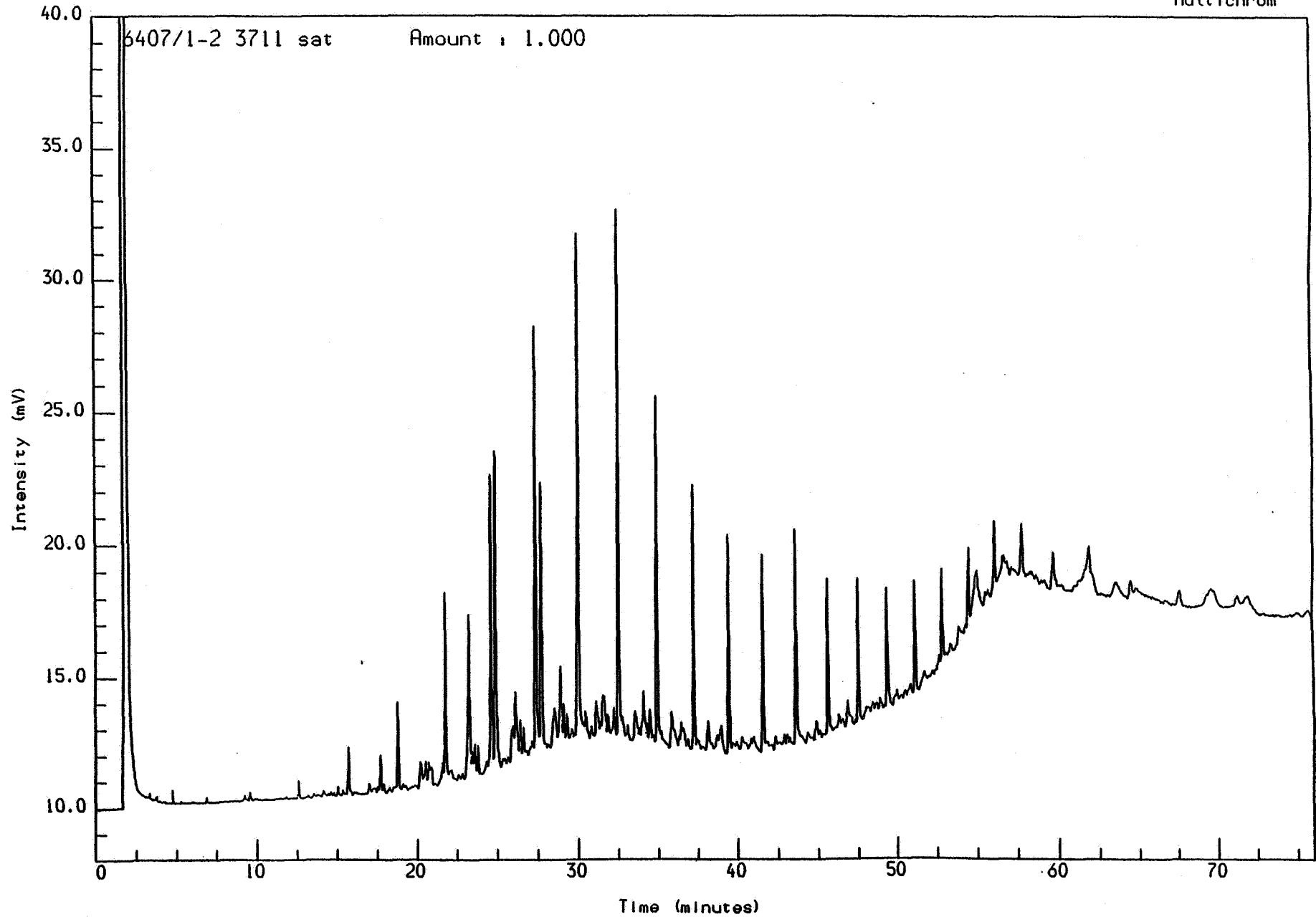


Acquired on 21-AUG-1992 at 20.43

Reported on 26-AUG-1992 at 09.12

Analysis Name : [DEF ROJECT] 3 S079,4,1.

Multichrom



Acquired on 23-JUL-1992 at 17:50

Reported on 24-JUL-1992 at 10:41

Figure 2.

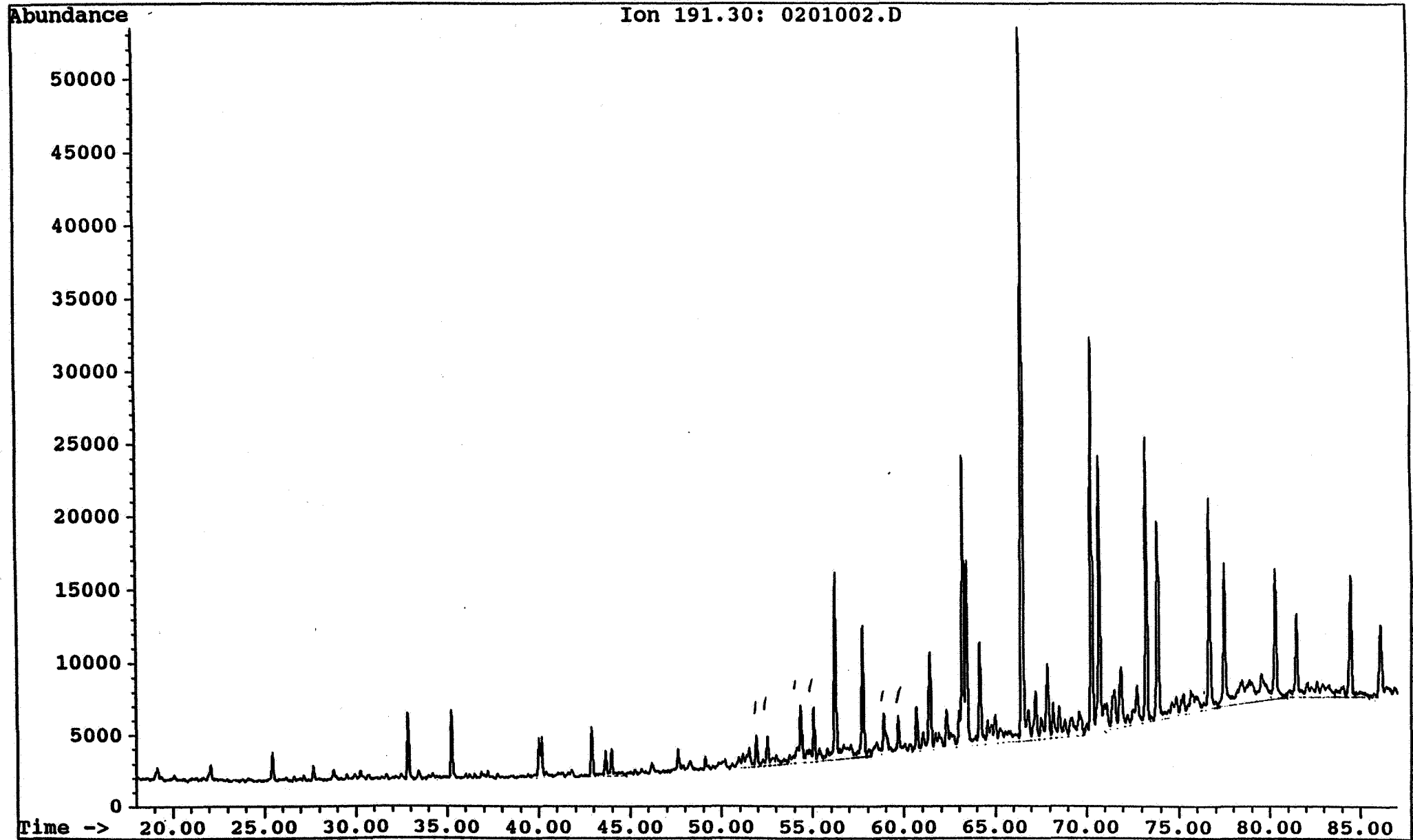
Saga Petroleum a.s.

Date acquired: 2 Sep 92 3:44 pm

File: C:\CHEMPC\DATA\HALTEN\RUN10\0201002.D Inst: HP5971A Inj: Split Meth: BMS.M

Sample name:

WELL 6407/1-2 3669,60 sat



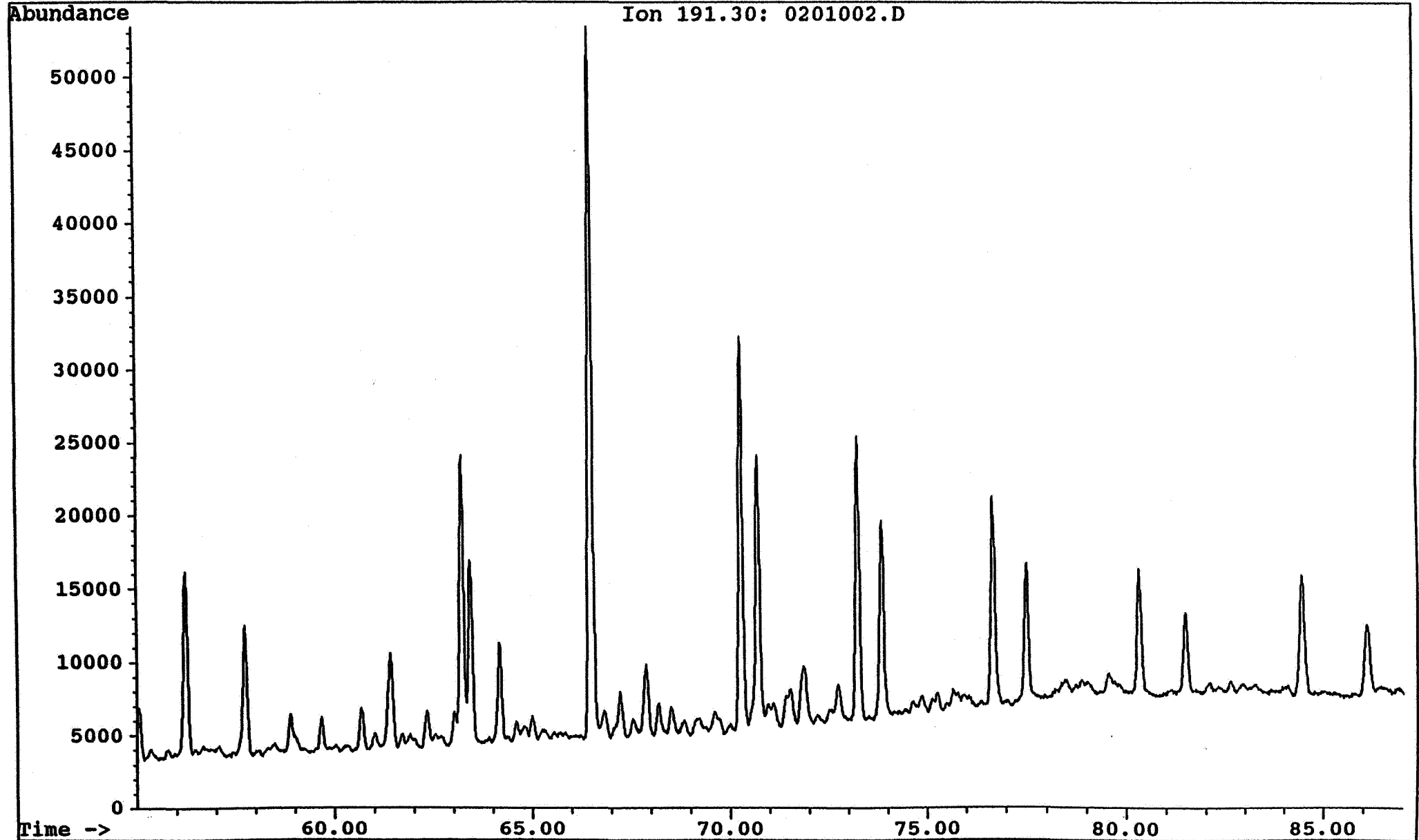
Saga Petroleum a.s.

Date acquired: 2 Sep 92 3:44 pm

File: C:\CHEMPC\DATA\HALTEN\RUN10\0201002.D Inst: HP5971A Inj: Split Meth: BMS.M

Sample name:

WELL 6407/1-2 3669,60 sat



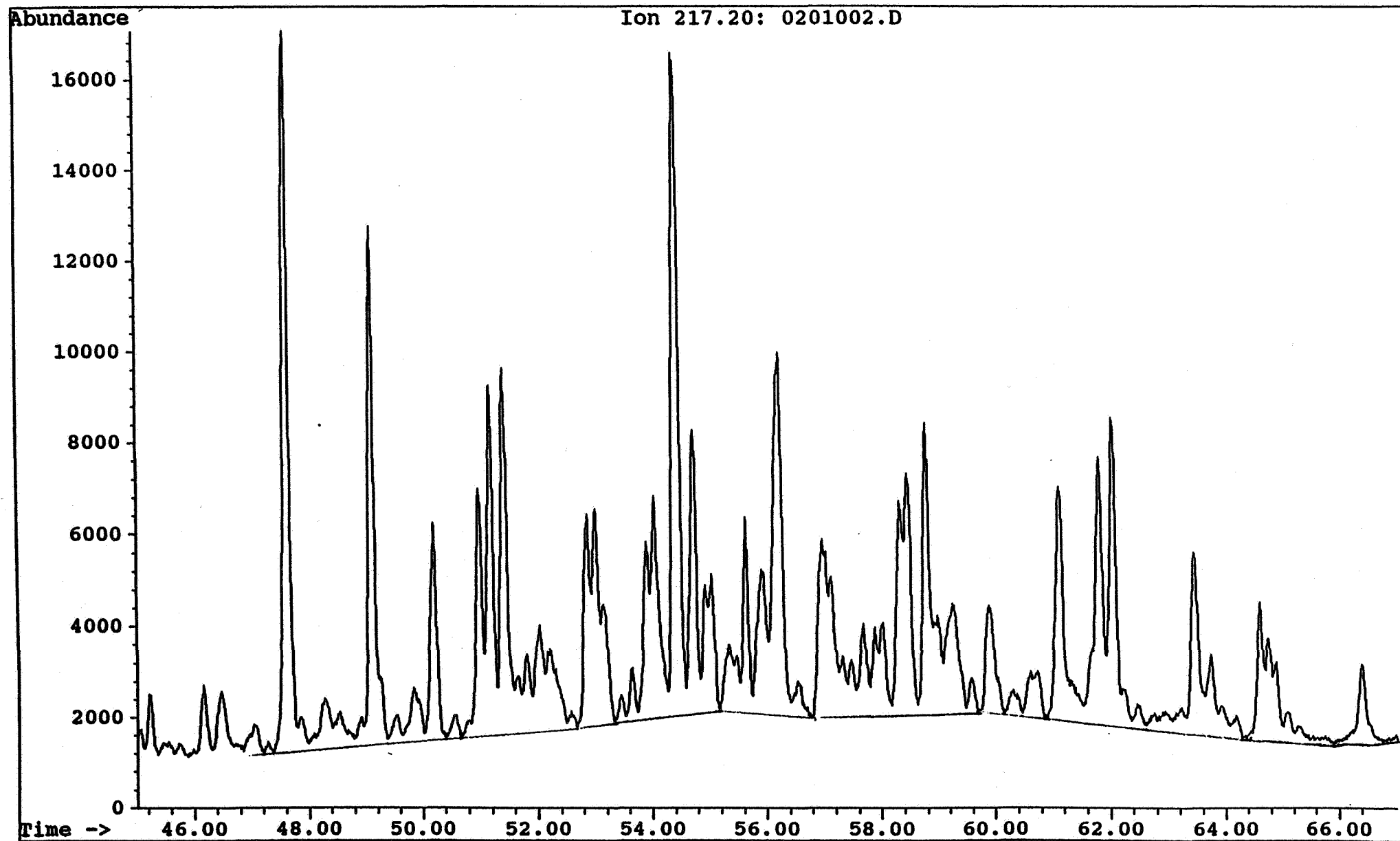
Saga Petroleum a.s.

Date acquired: 2 Sep 92 3:44 pm

File: C:\CHEMPC\DATA\HALTEN\RUN10\0201002.D Inst: HP5971A Inj: Split Meth: BMS.M

Sample name:

WELL 6407/1-2 3669,60 sat



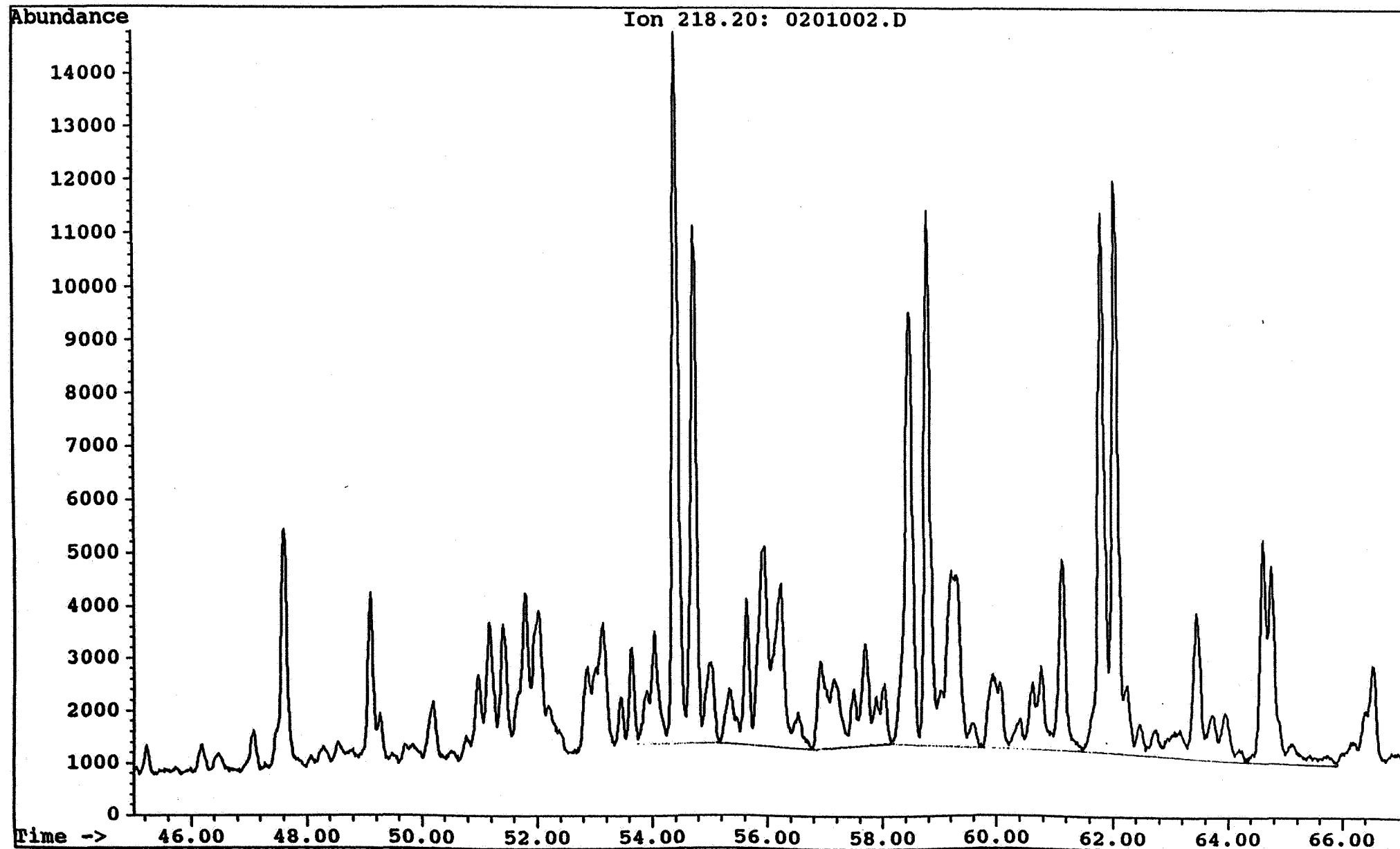
Saga Petroleum a.s.

Date acquired: 2 Sep 92 3:44 pm

File: C:\CHEMPC\DATA\HALTEN\RUN10\0201002.D Inst: HP5971A Inj: Split Meth: BMS.M

Sample name:

WELL 6407/1-2 3669,60 sat



Saga Petroleum a.s.

File: C:\CHEMPC\DATA\HALTEN\RUN10\0201002.D

Inst: HP5971A

Inj: Split

Date acquired: 2 Sep 92

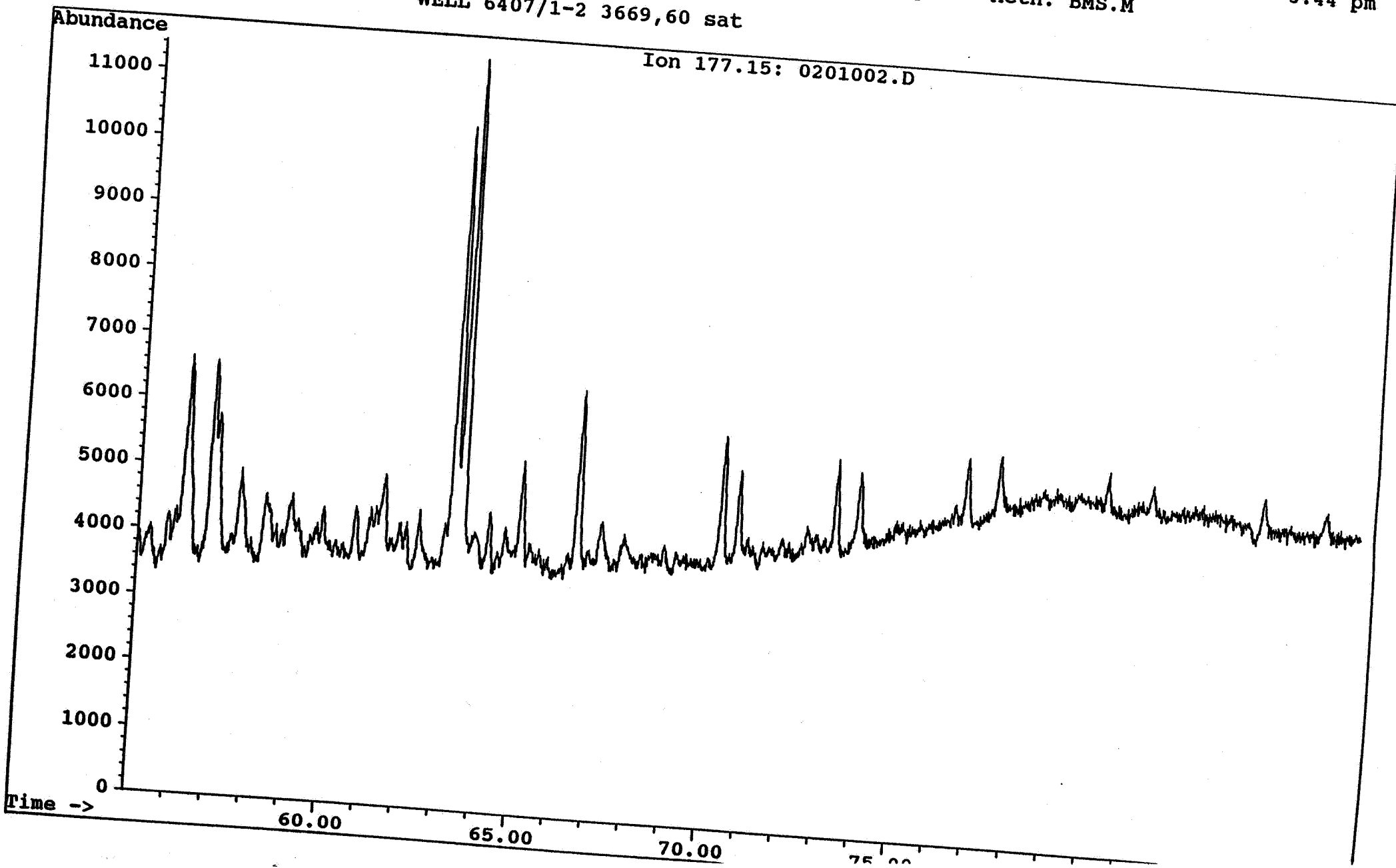
Meth: BMS.M

3:44 pm

Sample name:

WELL 6407/1-2 3669,60 sat

Ion 177.15: 0201002.D



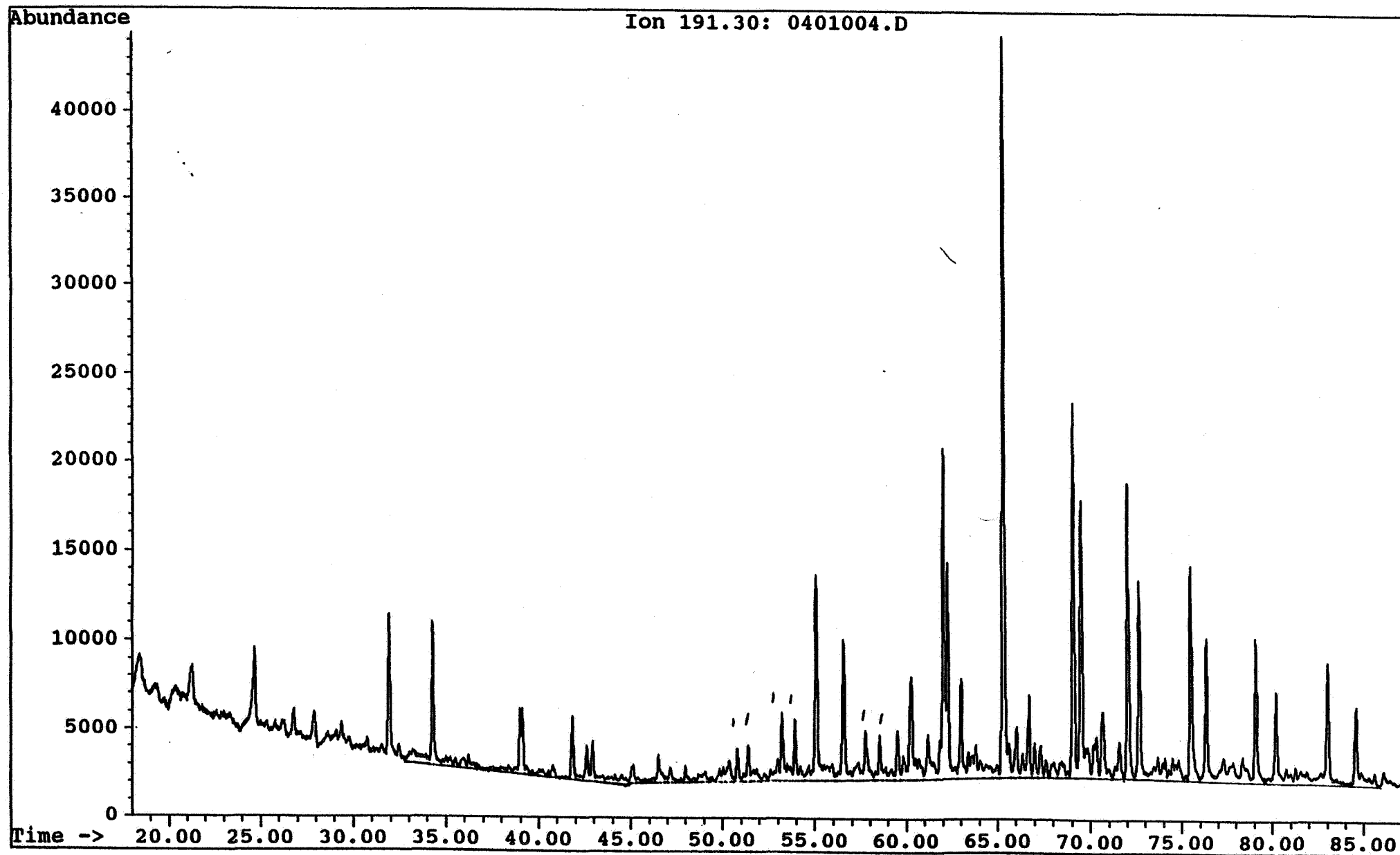
Saga Petroleum a.s.

File: C:\CHEMPC\DATA\HALTEN\0401004.D Inst: HP5971A Inj: Split Meth: BMS.M

ate acquired: 14 Jan 93 4:01 pm

Sample name:

WELL 6407/1-2 3689 SAT



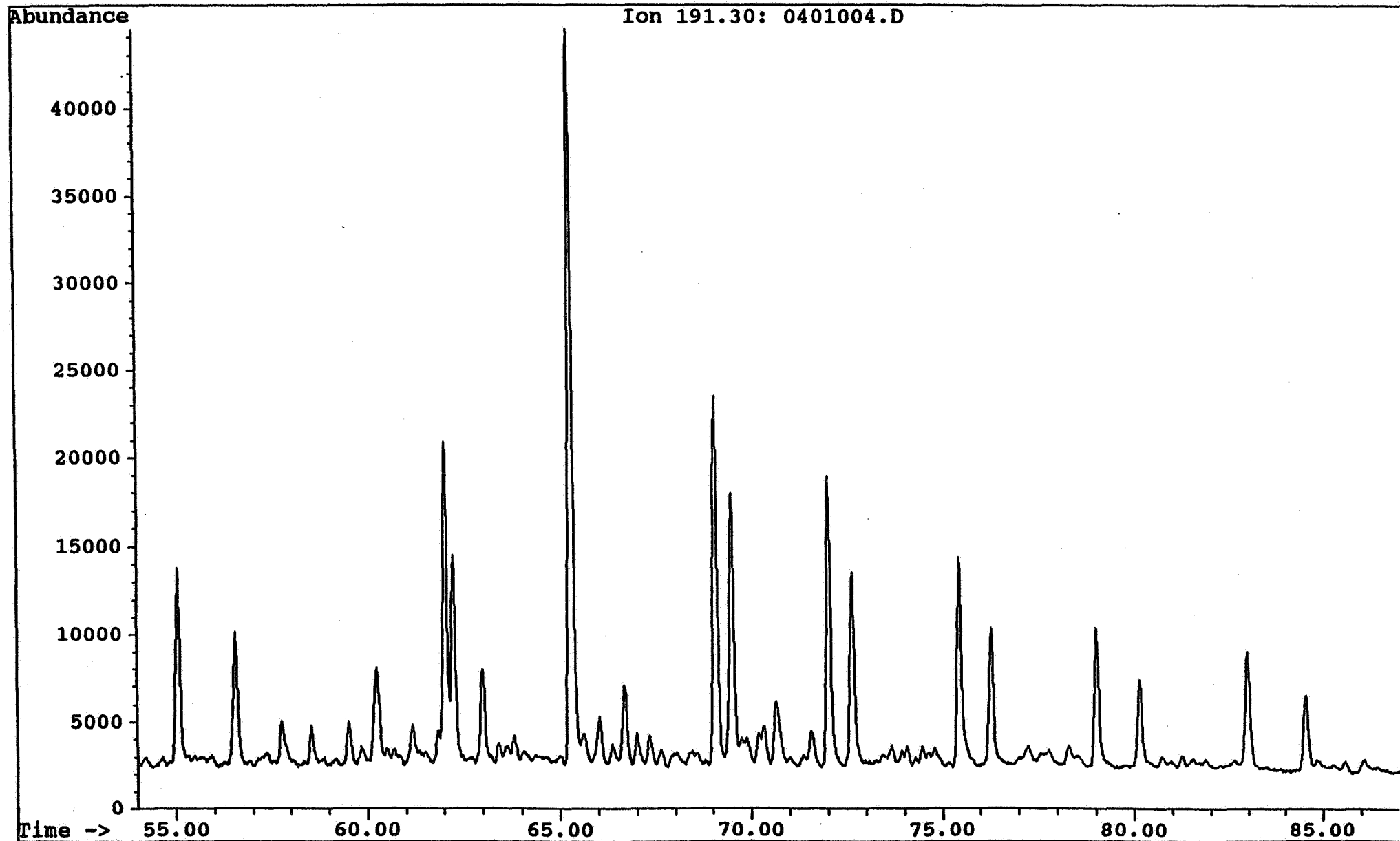
Saga Petroleum a.s.

Date acquired: 14 Jan 93 4:01 pm

File: C:\CHEMPC\DATA\HALTEN\0401004.D Inst: HP5971A Inj: Split Meth: BMS.M

Sample name:

WELL 6407/1-2 3689 SAT



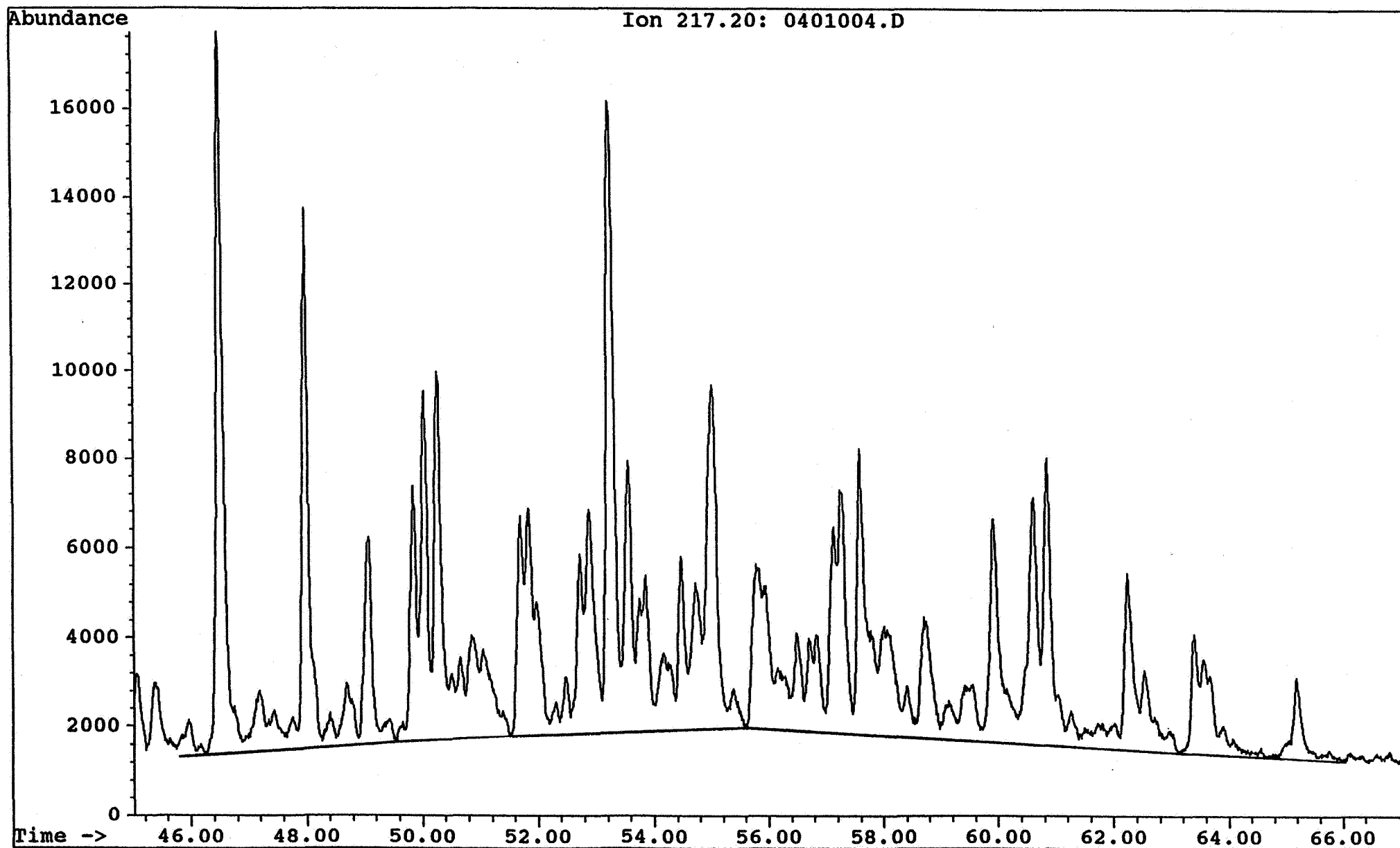
Saga Petroleum a.s.

File: C:\CHEMPC\DATA\HALTEN\0401004.D Inst: HP5971A Inj: Split Meth: BMS.M

Date acquired: 14 Jan 93 4:01 pm

Sample name:

WELL 6407/1-2 3689 SAT



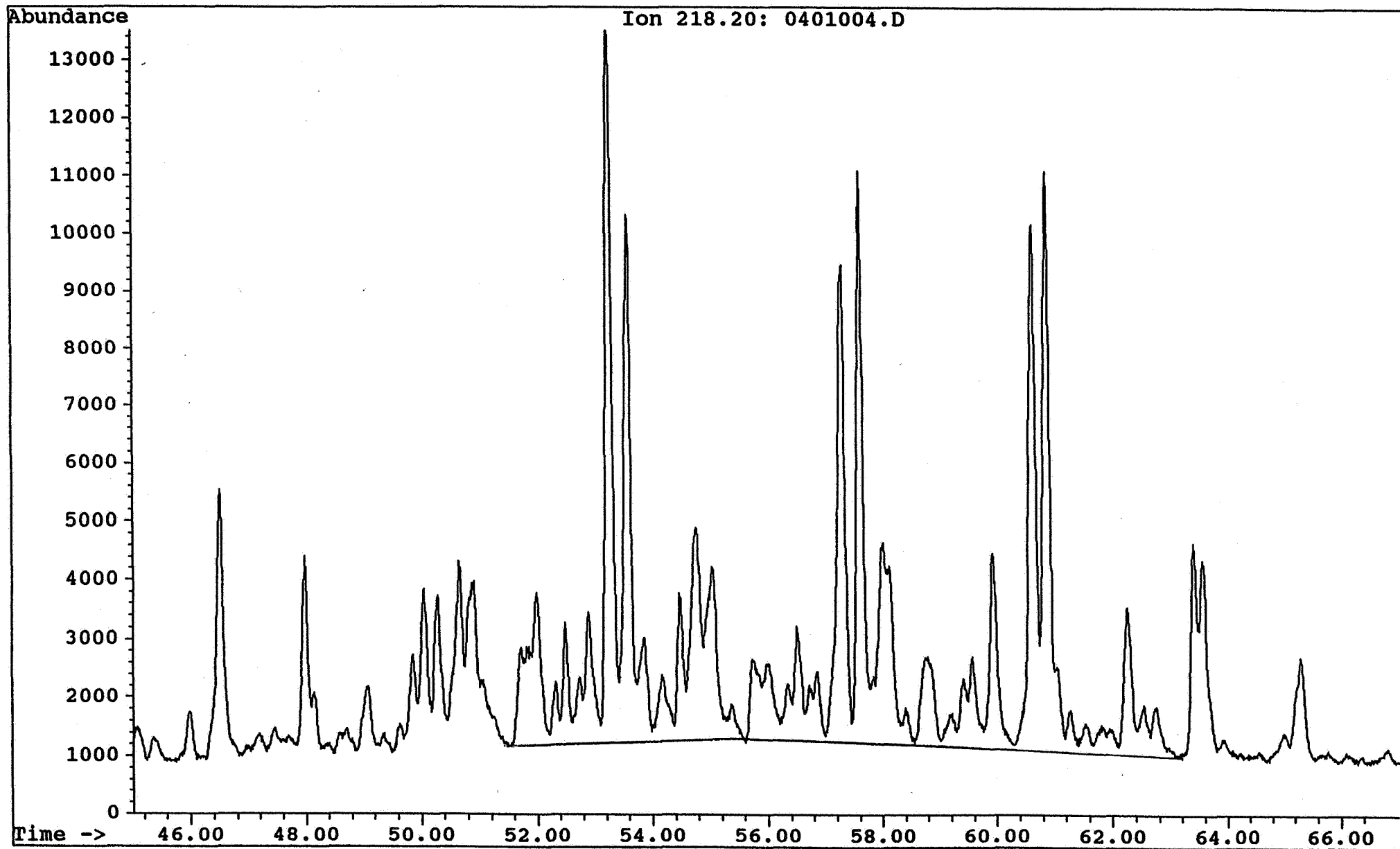
Saga Petroleum a.s.

ate acquired: 14 Jan 93 4:01 pm

File: C:\CHEMPC\DATA\HALTEN\0401004.D Inst: HP5971A Inj: Split Meth: BMS.M

Sample name:

WELL 6407/1-2 3689 SAT

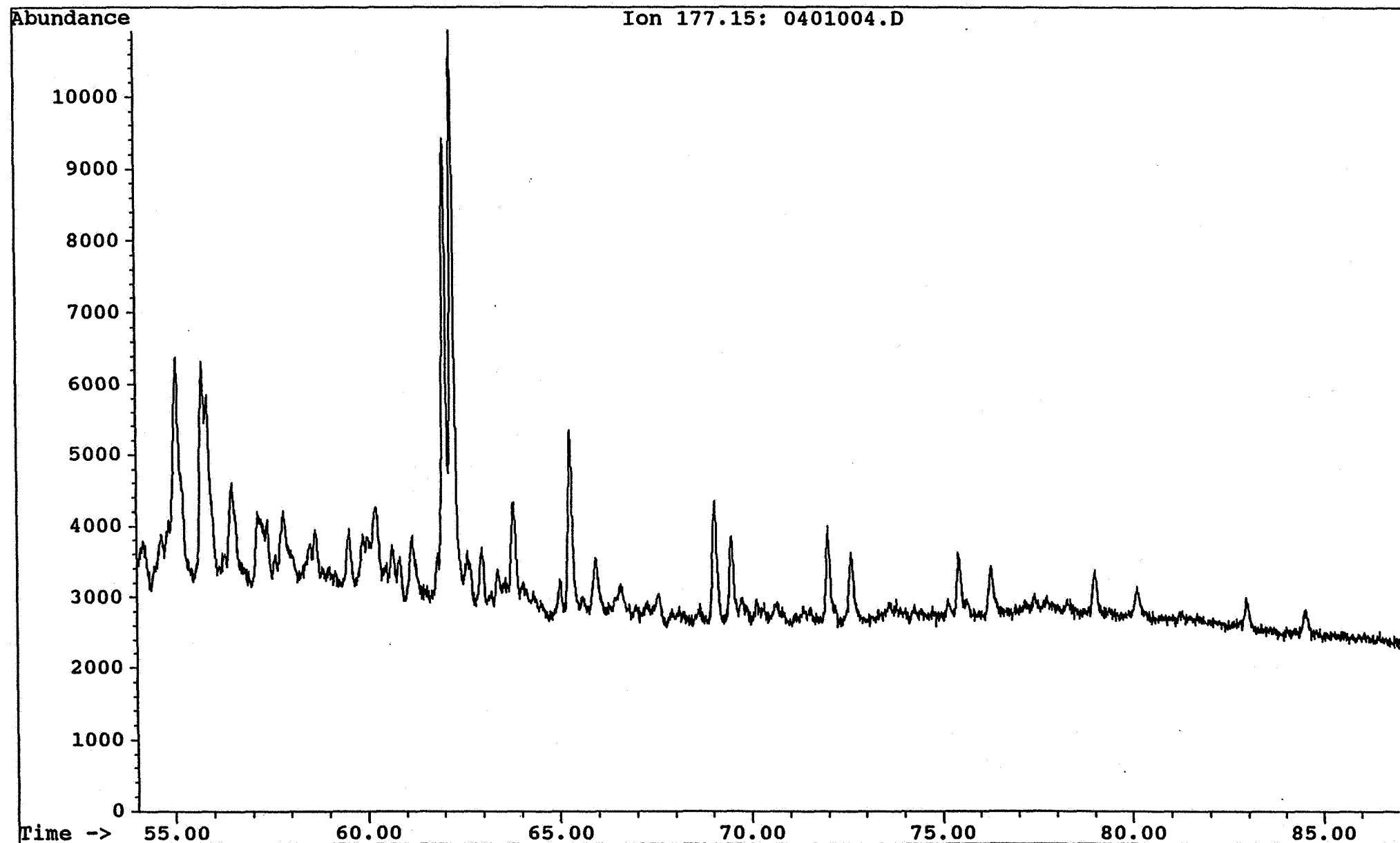


Saga Petroleum a.s.

ate acquired: 14 Jan 93 4:01 pm

File: C:\CHEMPC\DATA\HALTEN\0401004.D Inst: HP5971A Inj: Split Meth: BMS.M

Sample name: WELL 6407/1-2 3689 SAT



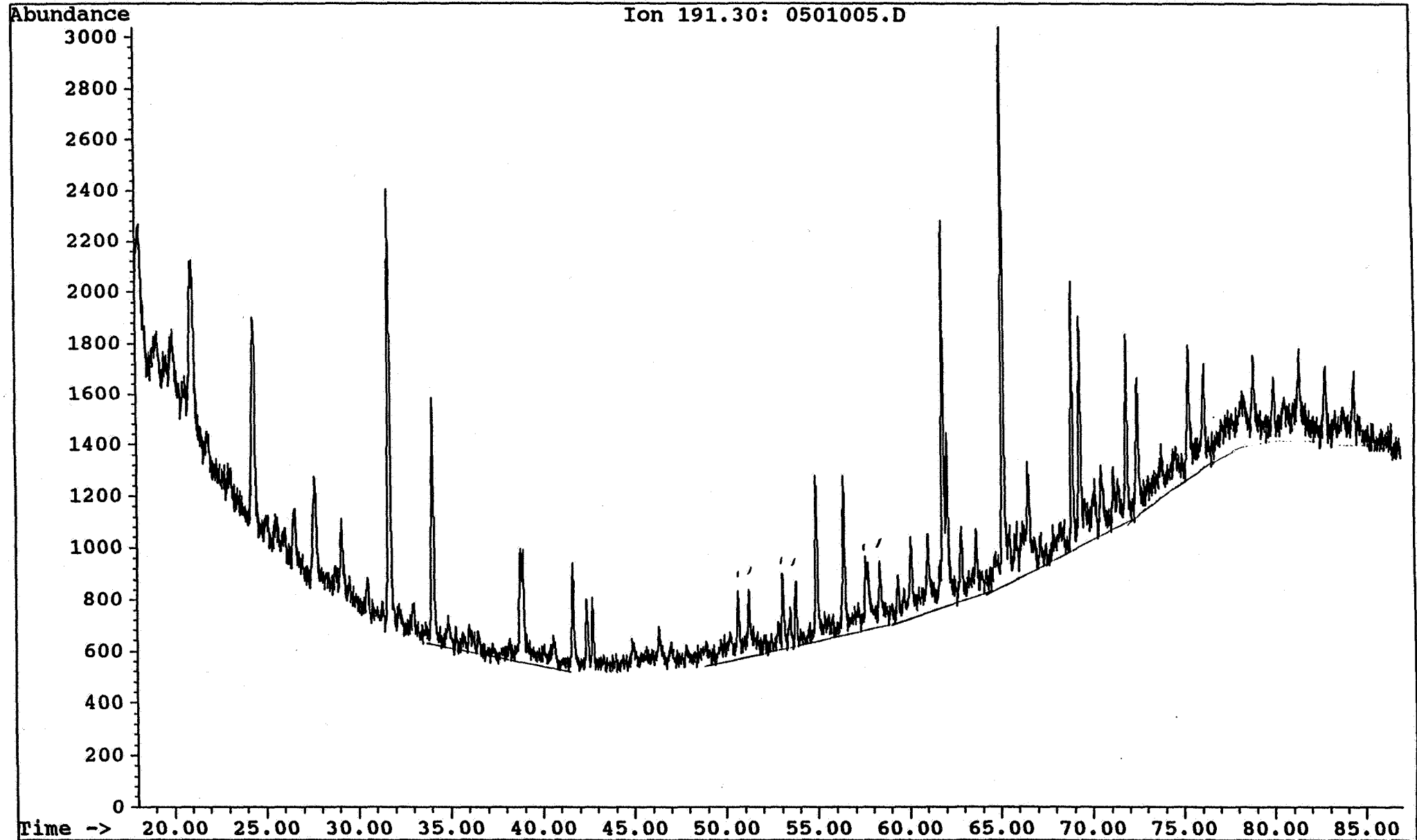
Saga Petroleum a.s.

File: C:\CHEMPC\DATA\HALTEN\0501005.D Inst: HP5971A Inj: Split Meth: BMS.M

Date acquired: 14 Jan 93 5:45 pm

Sample name:

WELL 6407/1-2 3711 SAT



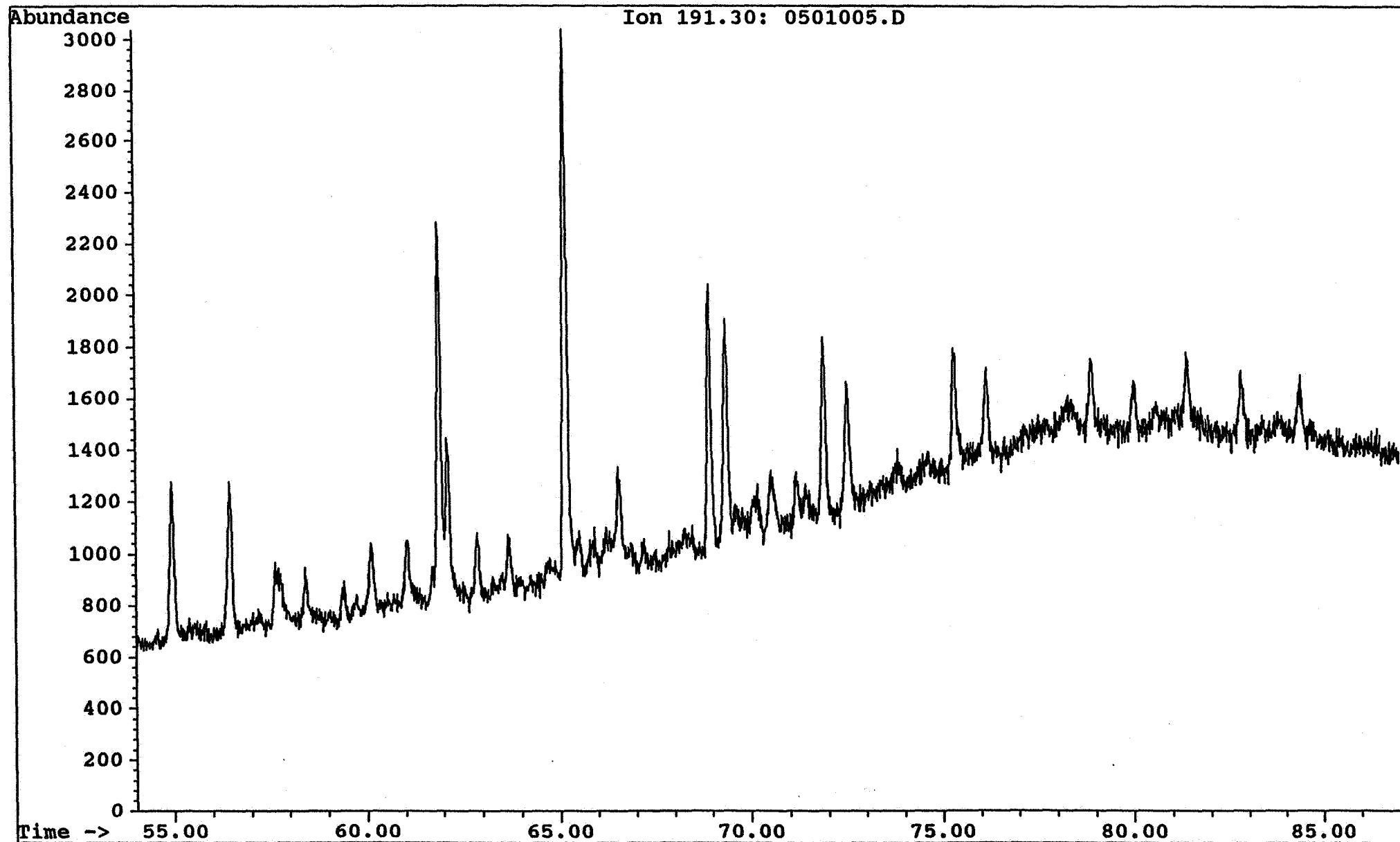
Saga Petroleum a.s.

Date acquired: 14 Jan 93 5:45 pm

File: C:\CHEMPC\DATA\HALTEN\0501005.D Inst: HP5971A Inj: Split Meth: BMS.M

Sample name:

WELL 6407/1-2 3711 SAT



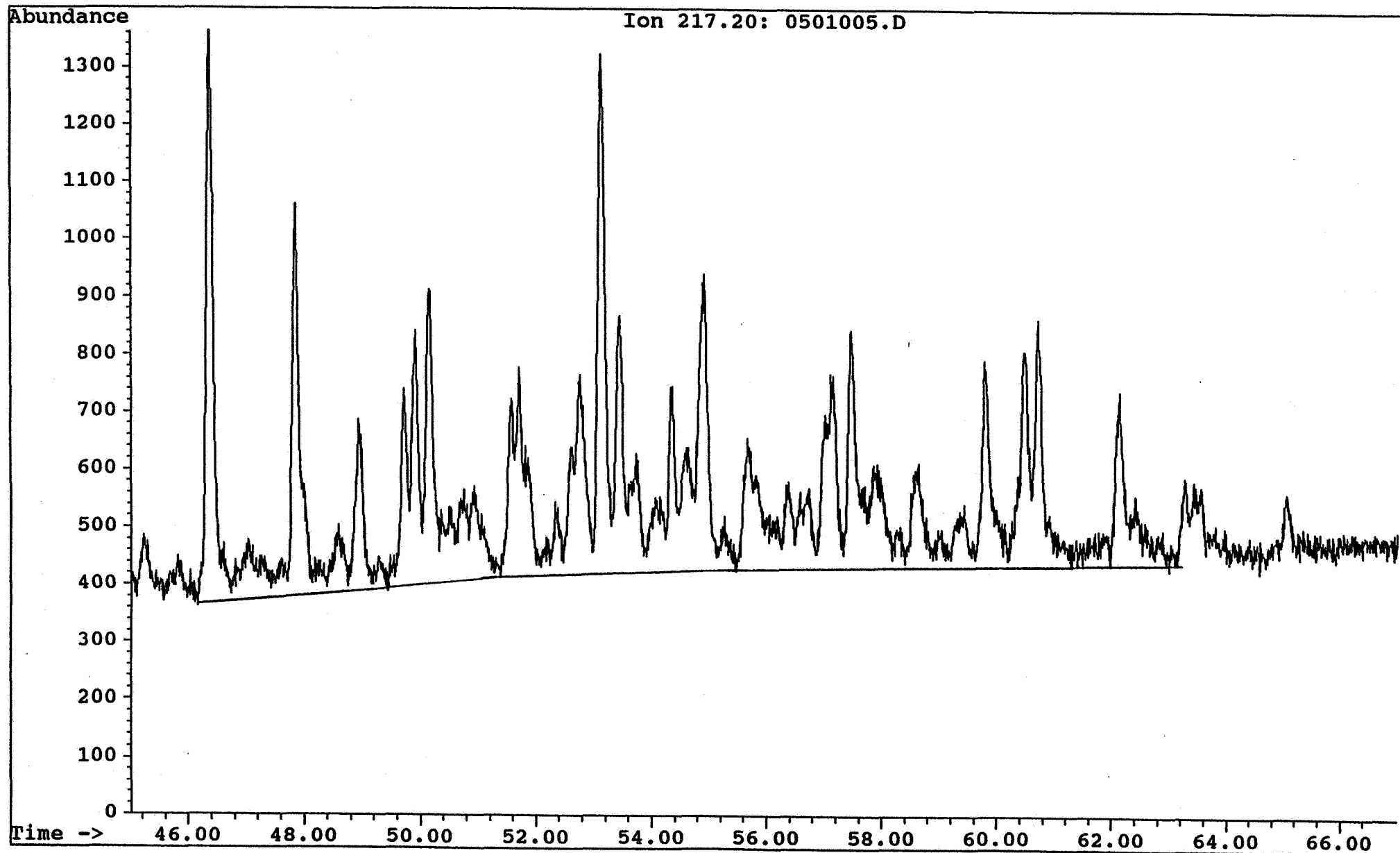
Saga Petroleum a.s.

File: C:\CHEMPC\DATA\HALTEN\0501005.D Inst: HP5971A Inj: Split Meth: BMS.M

Date acquired: 14 Jan 93 5:45 pm

Sample name:

WELL 6407/1-2 3711 SAT

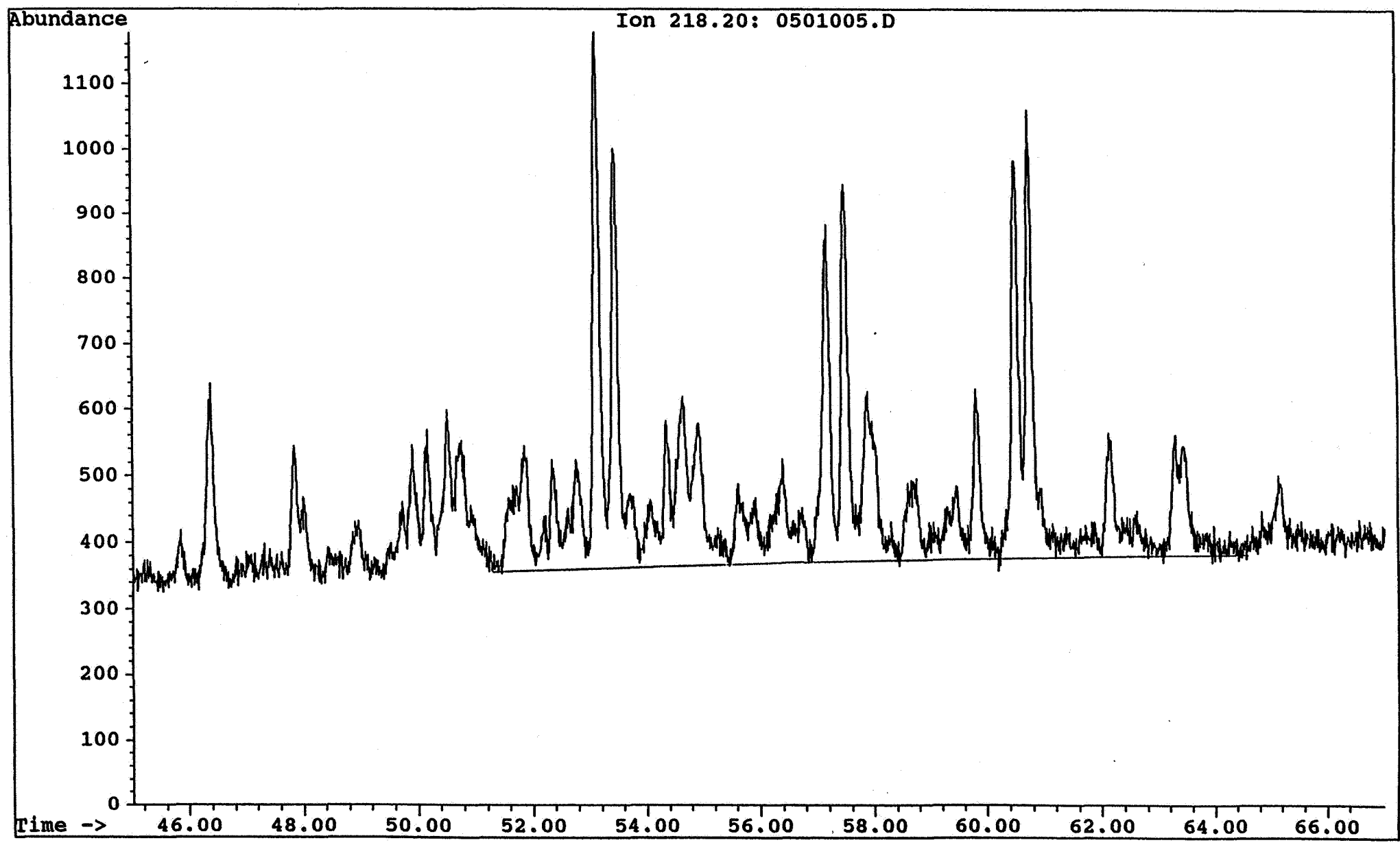


Saga Petroleum a.s.

ate acquired: 14 Jan 93 5:45 pm

File: C:\CHEMPC\DATA\HALTEN\0501005.D Inst: HP5971A Inj: Split Meth: BMS.M

Sample name: WELL 6407/1-2 3711 SAT



Saga Petroleum a.s.

ate acquired: 14 Jan 93 5:45 pm

File: C:\CHEMPC\DATA\HALTEN\0501005.D Inst: HP5971A Inj: Split Meth: BMS.M

Sample name:

WELL 6407/1-2 3711 SAT

