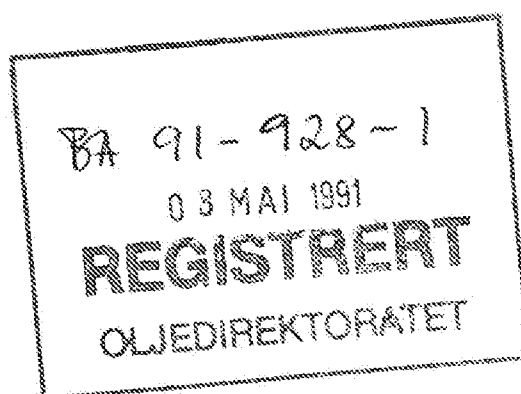


Prepared for

SAGA PETROLEUM a.s

TAMPEN AREA STUDY,
DATA REPORT 1



December 1990

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WELL 34/7-13

TABLE A.1
ORGANIC CARBON RESULTS AND GROSS LITHOLOGIC DESCRIPTIONS

JOB 4069	DEPTH/ IDENTITY	GROSS LITHOLOGIC DESCRIPTION	G S A COLOUR CODE	TOTAL ORGANIC CARBON (Wt. %)
GEOCHEM SAMPLE NUMBER				

WELL: 34/7-13

4069-001	2497.40m	A100% SANDSTONE - coarse grained, sub-angular, blocky, soft and friable, yellow F, instant blooming milky C, moderate yellowish brown.	10YR5/4	
4069-002	2501.60m	A100% SANDSTONE - coarse grained, sub-angular, blocky, soft and friable, pale yellow F, rapid blooming milky C, pale yellowish brown.	10YR6/2	
4069-003	2504.75m	A100% SANDSTONE - med to coarse grained, sub-angular, blocky, mod soft, micaceous, pale yellow F, slow streaming milky C, pale yellowish brown to greyish orange.	10YR6/2- 10YR7/4	
4069-004	2506.80m	A100% SANDSTONE - v coarse grained, angular to sub-angular, blocky, firm, dull yellow F, no C, very pale orange.	10YR8/2	
4069-005	2510.75m	A100% MICACEOUS SANDSTONE - fine to med grained, sub-angular, blocky, firm, dull yellow F, no C, very light grey.	N8	
4069-006	2514.50m	A100% SANDSTONE - fine to med grained, sub-angular, platy to blocky, mod soft, micaceous, gold F, no C, pinkish grey.	5YR8/1	

Abbreviations = arenaceous, argillaceous, calcareous, Cut, dolomite, Fluorescence, foraminifera
fossiliferous, Lost Circulation Material, moderately, occasionally, slightly, very

TABLE A.2
CONCENTRATION (PPM) OF EXTRACTED C₁₅₊ MATERIAL IN ROCK

JOB 4069	L I T H O	DEPTH/ IDENTITY	TOTAL EXTRACT	HYDROCARBONS			NON HYDROCARBONS			
GEOCHEM SAMPLE NUMBER				Saturates	Aromatics	TOTAL	Precipd. Asphaltenes	Eluted NSO's	Non-Eluted NSO's	TOTAL

WELL: 34/7-13

4069-001A	2497.40m	17784	13704	1638	15343	718	1655	68	2441
4069-002A	2501.60m	17246	13360	1772	15132	526	1505	83	2114
4069-003A	2504.75m	13854	10687	1680	12367	411	1022	54	1487
4069-004A	2506.80m	1034	773	106	879	88	63	4	155
4069-005A	2510.75m	2097	1505	198	1703	172	212	10	394
4069-006A	2514.50m	2082	1482	185	1667	215	194	6	415

TABLE A.3
COMPOSITION (NORMALISED %) OF C₁₅₊ MATERIAL

JOB 4069	L I T H O	DEPTH/ IDENTITY	HYDROCARBONS		NON HYDROCARBONS		
GEOCHEM SAMPLE NUMBER			Saturates	Aromatics	Preciptd. Asphaltenes	Eluted NSO's	Non-Eluted NSO's

WELL: 34/7-13

4069-001A	2497.40m	77.06	9.21	4.04	9.31	0.38
4069-002A	2501.60m	77.47	10.28	3.05	8.73	0.48
4069-003A	2504.75m	77.14	12.13	2.97	7.37	0.39
4069-004A	2506.80m	74.74	10.25	8.50	6.14	0.38
4069-005A	2510.75m	71.77	9.44	8.21	10.09	0.49
4069-006A	2514.50m	71.19	8.88	10.35	9.32	0.27

TABLE A.4
SIGNIFICANT C₁₅₊ RATIOS

JOB 4069	L I T H O	DEPTH/ IDENTITY	TOC (%)	mg/g TOC						HYDROCARBONS % TOTAL EXTRACT	SATURATES AROMATICS
GEOCHEM SAMPLE NUMBER				TOTAL EXTRACT	SATURATES	AROMATICS	TOTAL HYDROCARBONS	ELUTED NSO's	ASPHALTENES		

WELL: 34/7-13

4069-001A	2497.40m	0.11	16167.49	12458.58	1489.48	13948.05	1504.70	652.93	86.27	8.36
4069-002A	2501.60m	0.14	12318.39	9542.60	1265.86	10808.46	1074.95	375.40	87.74	7.54
4069-003A	2504.75m	0.24	5772.58	4452.82	700.20	5153.02	425.67	171.39	89.27	6.36
4069-004A	2506.80m	0.10	1034.18	772.95	105.96	878.91	63.48	87.89	84.99	7.29
4069-005A	2510.75m	0.17	1233.67	885.39	116.43	1001.82	124.53	101.25	81.21	7.60
4069-006A	2514.50m	0.10	2081.65	1481.89	184.78	1666.67	193.98	215.47	80.06	8.02

TABLE A.4'
C₁₅₊ CHROMATOGRAPHY WEIGHTS (gms)

JOB 4069	L I T H O	DEPTH/ IDENTITY	ROCK EXTRACTED	TOTAL EXTRACT	PRECIPTD. ASPHALTENES	NC5	SATURATES	AROMATICS	ELUTED NSO's	NON-ELUTED NSO's
GEOCHEM SAMPLE NUMBER										

WELL: 34/7-13

4069-001A	2497.40m	10.1500	0.18051	0.00729	0.17322	0.13910	0.01663	0.01680	0.00069
4069-002A	2501.60m	11.1500	0.19229	0.00586	0.18643	0.14896	0.01976	0.01678	0.00093
4069-003A	2504.75m	11.1100	0.15392	0.00457	0.14935	0.11873	0.01867	0.01135	0.00060
4069-004A	2506.80m	20.4800	0.02118	0.00180	0.01938	0.01583	0.00217	0.00130	0.00008
4069-005A	2510.75m	11.6200	0.02437	0.00200	0.02237	0.01749	0.00230	0.00246	0.00012
4069-006A	2514.50m	16.2900	0.03391	0.00351	0.03040	0.02414	0.00301	0.00316	0.00009

TABLE A.5
COMPOSITION (NORMALISED %) OF C₁₅₊ SATURATE (PARAFFIN - NAPHTHENE) HYDROCARBONS

GEOCHEM SAMPLE NUMBER	001A	002A	003A	004A	005A	006A
DEPTH	2497.4m	2501.6m	2504.75m	2506.8m	2510.75m	2514.5m
SAMPLE TYPE						
nC15	5.46	6.66	5.37	3.00	3.58	1.23
nC16	6.53	7.32	6.49	6.04	5.53	3.90
nC17	6.89	6.88	6.82	6.34	6.94	6.11
nC18	6.98	6.77	6.94	7.57	8.00	8.59
nC19	7.64	7.01	7.49	7.94	9.13	8.98
nC20	7.57	7.61	7.43	8.62	9.28	10.83
nC21	6.81	6.67	6.76	7.64	8.04	9.67
nC22	7.16	6.55	6.24	7.78	8.10	9.09
nC23	6.25	5.77	5.69	7.67	6.40	7.59
nC24	7.39	6.64	7.46	6.53	6.95	8.18
nC25	7.01	7.15	7.38	6.09	6.02	6.53
nC26	6.59	6.13	7.10	5.54	5.31	5.33
nC27	5.22	5.08	5.68	4.68	4.19	4.13
nC28	4.17	4.14	4.74	3.90	3.46	3.43
nC29	3.28	3.50	3.45	3.64	2.99	2.68
nC30	2.11	2.43	2.14	2.51	2.17	1.62
nC31	1.30	1.50	1.24	1.78	1.52	0.95
nC32	0.71	0.91	0.73	1.04	0.90	0.38
nC33	0.43	0.57	0.37	0.75	0.67	0.29
nC34	0.29	0.44	0.27	0.60	0.50	0.25
nC35	0.21	0.26	0.20	0.34	0.32	0.25
Paraffin	19.54	18.44	16.73	19.74	15.07	14.77
Isoprenoid	2.42	2.53	2.00	2.26	1.96	2.17
Naphthene	78.04	79.03	81.27	78.00	82.97	83.06
CPI 1 Index	0.94	0.98	0.95	1.01	0.93	0.95
CPI 2 Index	1.03	1.08	1.02	1.06	1.03	1.05
CPI 3 Index	0.97	0.99	0.96	0.99	0.96	0.94
Prist/Phytane	1.24	1.26	1.13	1.11	1.13	1.18
Prist/nC17	0.71	0.85	0.76	0.82	0.80	0.86
Phytane/nC18	0.57	0.68	0.66	0.62	0.62	0.52

Job Number : 4069

$$C.P.I. 1 = \frac{1}{2} \left[\frac{C_{21} + C_{23} + C_{25} + C_{27}}{C_{20} + C_{22} + C_{24} + C_{26}} + \frac{C_{21} + C_{23} + C_{25} + C_{27}}{C_{22} + C_{24} + C_{26} + C_{28}} \right]$$

$$C.P.I. 2 = \frac{1}{2} \left[\frac{C_{25} + C_{27} + C_{29} + C_{31}}{C_{24} + C_{26} + C_{28} + C_{30}} + \frac{C_{25} + C_{27} + C_{29} + C_{31}}{C_{26} + C_{28} + C_{30} + C_{32}} \right]$$

$$C.P.I. 3 = \frac{2 \times (C_{27})}{C_{26} + C_{28}}$$

CT - ditch cuttings CO - core SWC - sidewall core

TABLE A6
METHYLPHENANTHRENE INDICES (MPI)

TOB 4069	DEPTH/ IDENTITY	SAMPLE TYPE	MPI 1		Rcalc		MPI 2	
GEOCHEM SAMPLE NUMBER			AREA	HEIGHT	AREA	HEIGHT	AREA	HEIGHT

WELL: 34/7-13

4069-001A	2497.40m		0.52	0.55			0.54	0.56
4069-002A	2501.60m		0.58	0.61			0.60	0.62
4069-003A	2504.75m		0.55	0.58			0.58	0.59
4069-004A	2506.80m		0.53	0.56			0.57	0.57
4069-005A	2510.75m		0.49	0.53			0.52	0.55
4069-006A	2514.50m		0.53	0.55			0.57	0.56

TABLE A.6'

AROMATIC HYDROCARBONS RATIOS (MSD, PEAK AREA DATA)

SAMPLE NUMBER	DEPTH (m)	2MP/ 1MP	RATIO 1	RATIO 2	RATIO 3
------------------	--------------	-------------	---------	---------	---------

WELL 34/7-13

4069-001A	2497.40	0.65	0.34	0.54	0.19
4069-002A	2501.60	0.80	0.34	0.53	0.18
4069-003A	2504.75	0.68	0.40	0.52	0.16
4069-004A	2506.80	0.60	0.30	0.52	0.15
4069-005A	2510.75	0.64	0.27	0.50	0.17
4069-006A	2514.50	0.71	0.28	0.58	0.15

$$\text{RATIO 1} = \frac{A(231)}{A(231) + G(231)}$$

$$\text{RATIO 2} = \frac{E(253)}{E(253) + G(253)}$$

$$\text{RATIO 3} = \frac{A(253)}{B(231) + E(253)}$$

TABLE A.7
CARBON ISOTOPE COMPOSITIONS (‰, PDB)

JOB 4069								
GEOCHEM SAMPLE NUMBER	DEPTH/ IDENTITY	TOTAL EXTRACT WHOLE OIL	SATURATES	AROMATICS	NSO	ASPHALTENES	KEROGEN	PYROLYSATE (S2)

WELL: 34/7-13

4069-001A	2497.40m	-28.75	-29.05	-28.61	-28.93	-28.32		
4069-002A	2501.60m	-29.04	-29.15	-28.48	-29.01	-28.25		
4069-003A	2504.75m	-29.00	-29.36	-28.58	-29.54	-28.49		
4069-004A	2506.80m	-28.97	-29.28	-28.68	-29.64	-28.41		
4069-005A	2510.75m	-29.59	-29.64	-29.60	-30.17	-28.71		
4069-006A	2514.50m	-29.50	-30.57	-30.36	-30.77	-27.20		

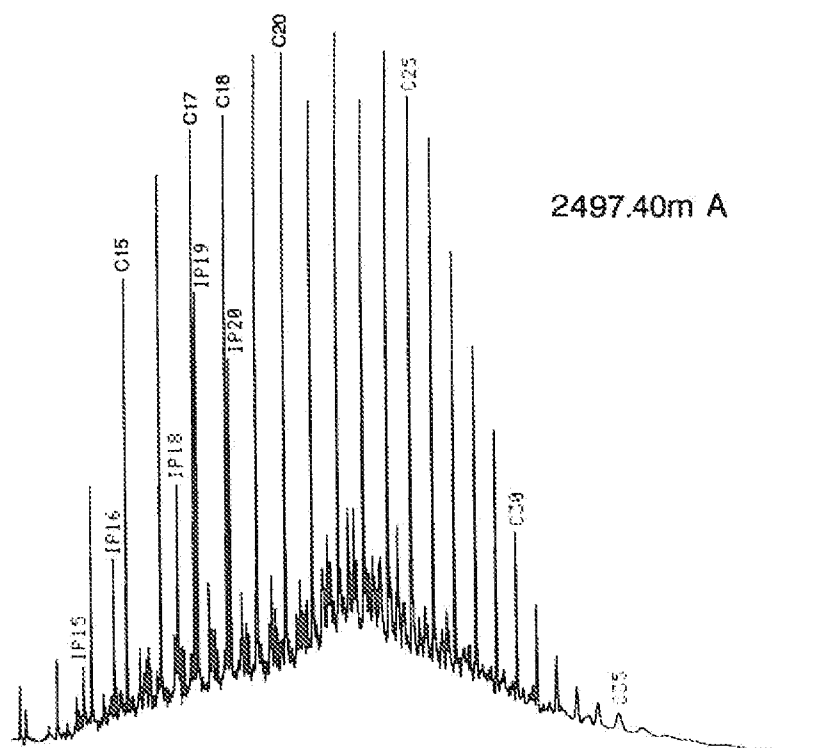
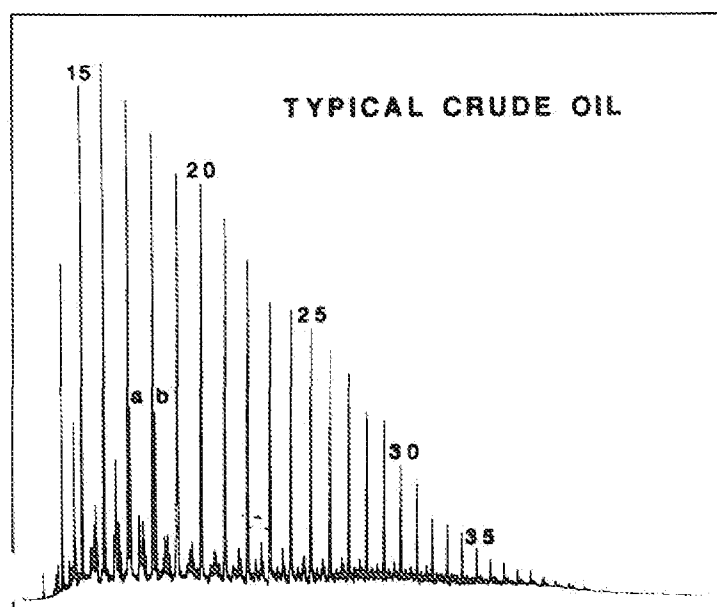
TABLE A.8
BIOMARKER MOLECULAR RATIOS

WELL 34/7-13

		Steranes (m/z 217, 218)				Terpanes (m/z 191)					
SAMPLE NUMBER	DEPTH (m)	Q/T	R/T	A/B	<u>A+B</u> E+F	B/A	<u>C</u> C+E	<u>D</u> D+C	<u>Z</u> Z+C	<u>G</u> G+H%	<u>G1</u> G1+E%
4069-001A	2497.40m	0.94	0.83	1.49	0.85	0.72	0.36	0.14	0.31	57.96	0
4069-002A	2501.60m	1.05	0.88	1.18	1.11	0.65	0.39	0.18	0.34	57.15	0
4069-003A	2504.75m	1.10	0.91	1.43	0.98	0.69	0.36	0.12	0.31	57.77	0
4069-004A	2506.80m	0.91	0.91	1.31	0.92	0.67	0.27	0.17	0.38	58.92	0
4069-005A	2510.75m	0.87	0.76	1.52	0.80	0.75	0.27	0.21	0.40	57.79	0
4069-006A	2514.50m	1.02	1.00	1.47	0.82	0.79	0.29	0.20	0.43	58.96	0

FIGURE A1.1 C₁₅+ SATURATES CHROMATOGRAMS

WELL 34/7-13

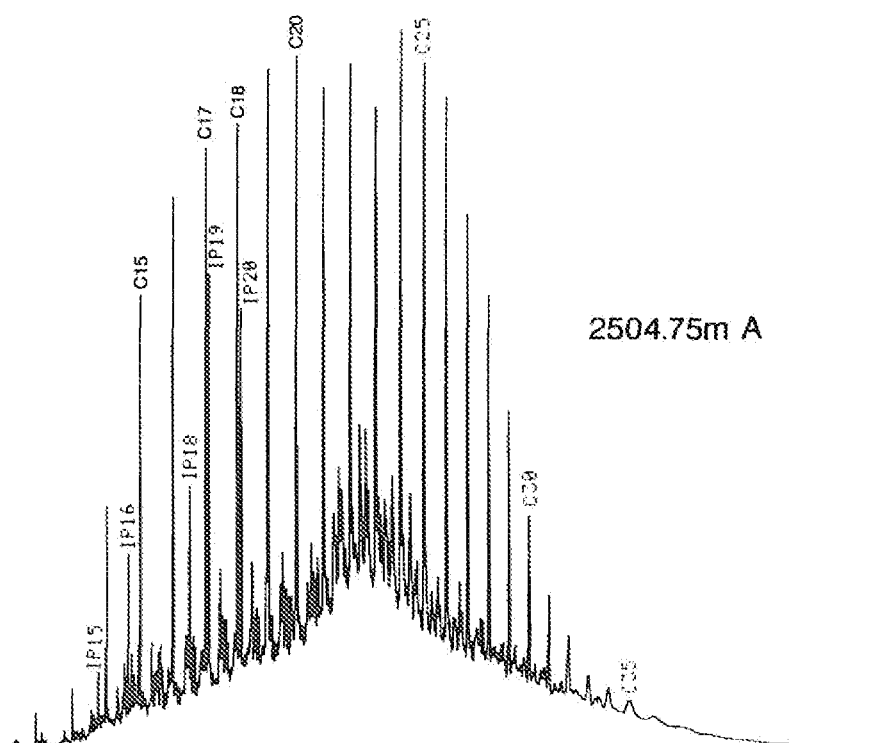
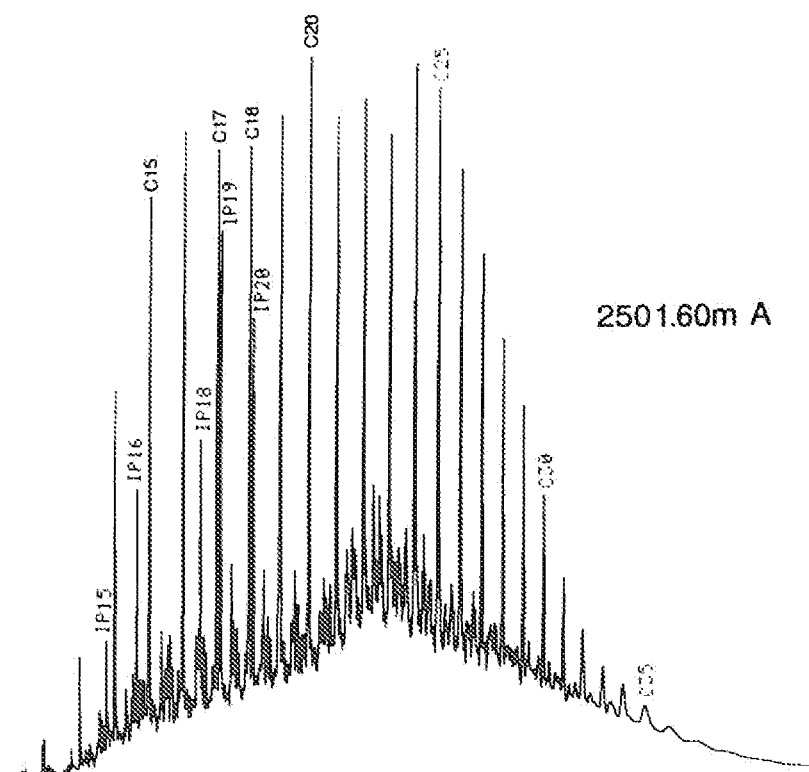


a - PRISTANE
b - PHYTANE

CARBON NUMBERS OF NORMAL PARAFFINS INDICATED (20-nC₂₀)

FIGURE A1.2 C₁₅+ SATURATES CHROMATOGRAMS

WELL 34/7-13

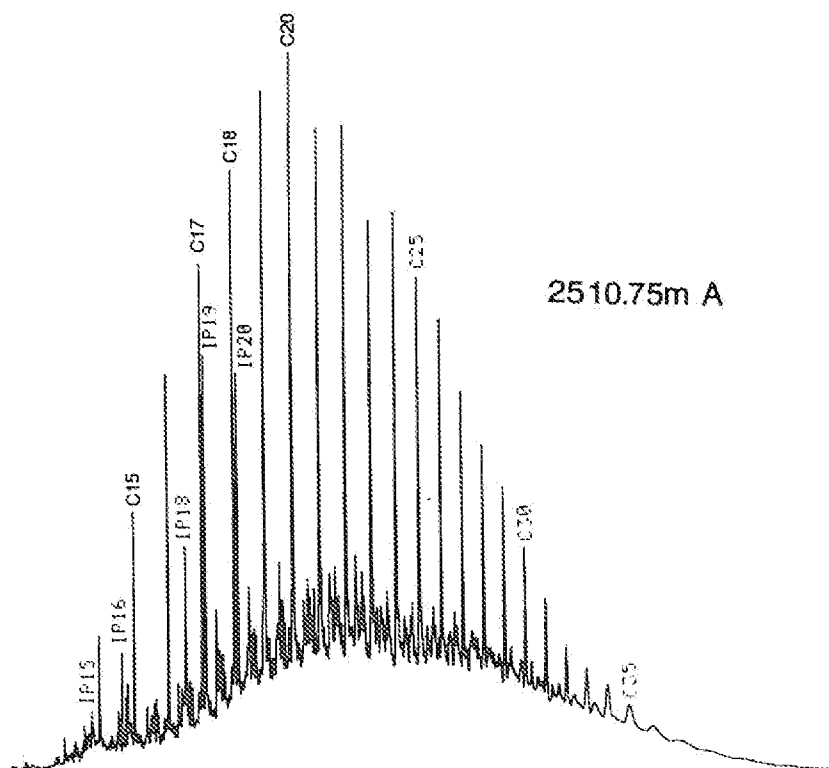
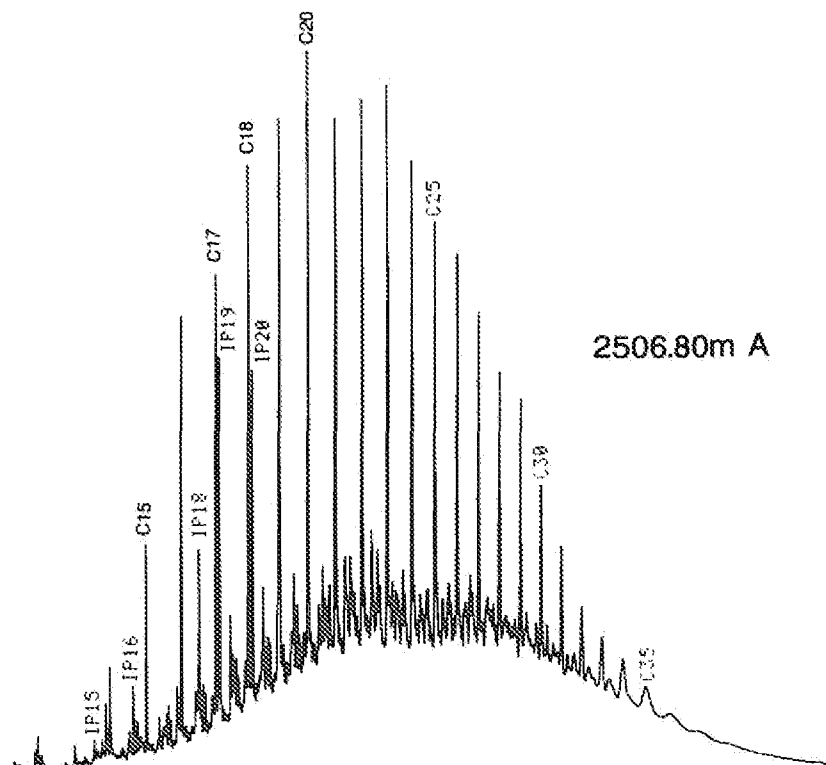


a - PRISTANE
b - PHYTANE

CARBON NUMBERS OF NORMAL PARAFFINS INDICATED (20 - nC₂₀)

FIGURE A1.3 C₁₅+ SATURATES CHROMATOGRAMS

WELL 34/7-13

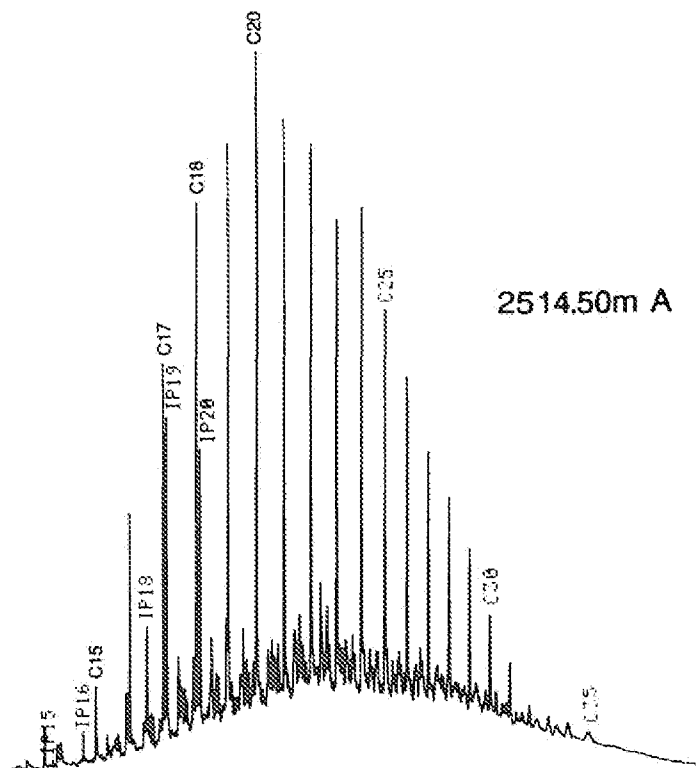


a - PRISTANE
b - PHYTANE

CARBON NUMBERS OF NORMAL PARAFFINS INDICATED (20 - nC₂₀)

FIGURE A1.4 C₁₅+ SATURATES CHROMATOGRAMS

WELL 34/7-13



a = PRISTANE

b = PHYTANE

CARBON NUMBERS OF NORMAL PARAFFINS INDICATED (20 - nC₂₀)

FIGURE A2.1 C₁₅+ AROMATIC CHROMATOGRAMS

WELL 34/7-13

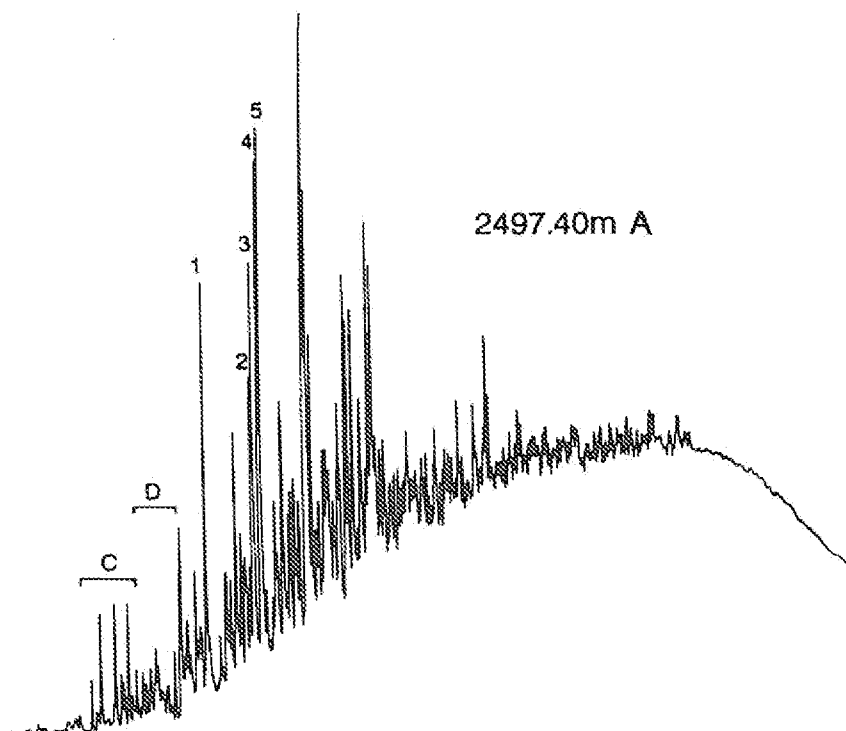
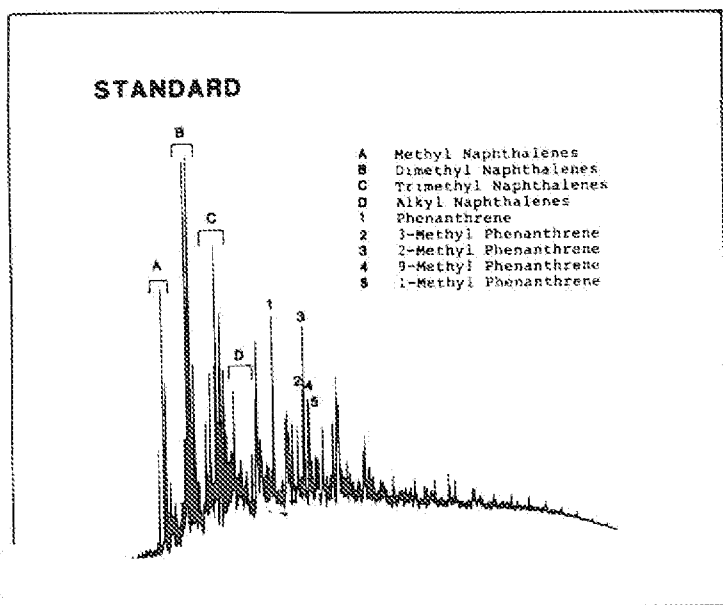


FIGURE A2.2 C₁₅+ AROMATIC CHROMATOGRAMS

WELL 34/7-13

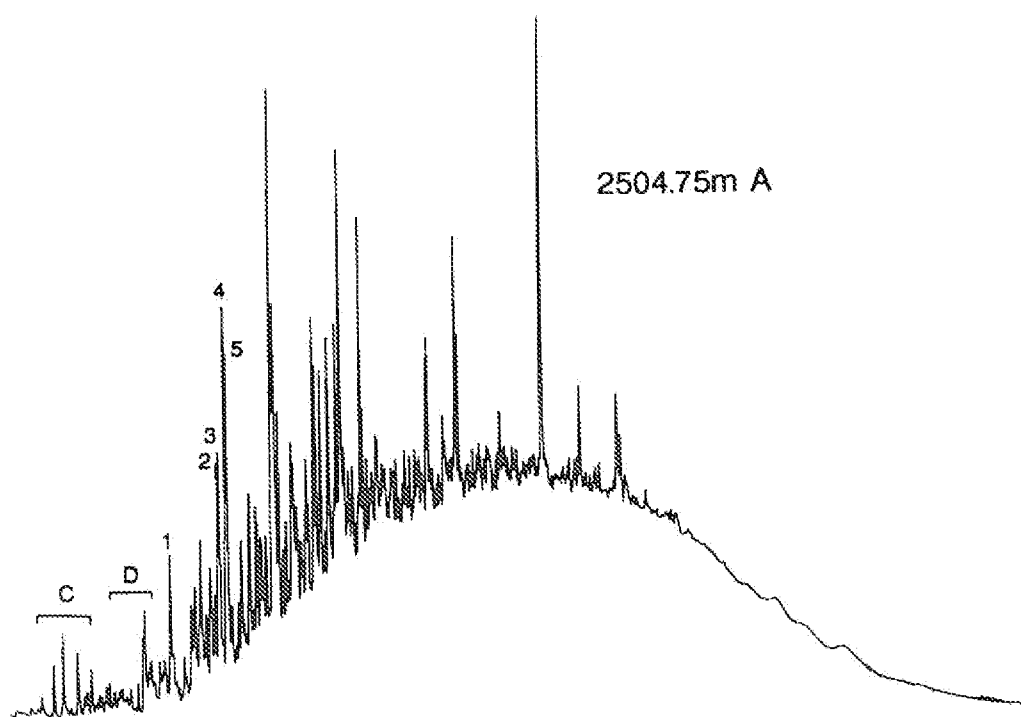
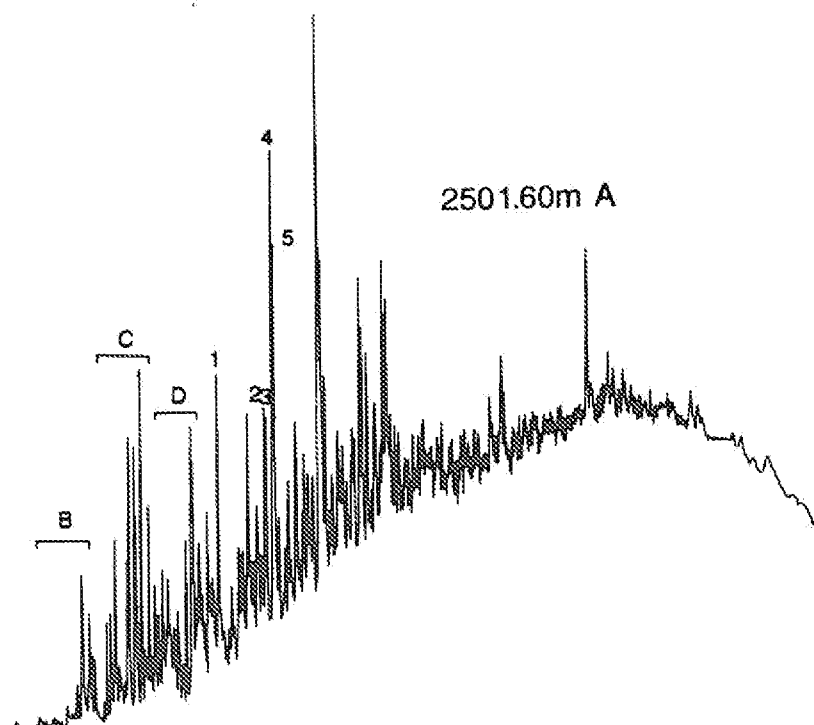


FIGURE A2.3 **C₁₅+ AROMATIC CHROMATOGRAMS**

WELL 34/7-13

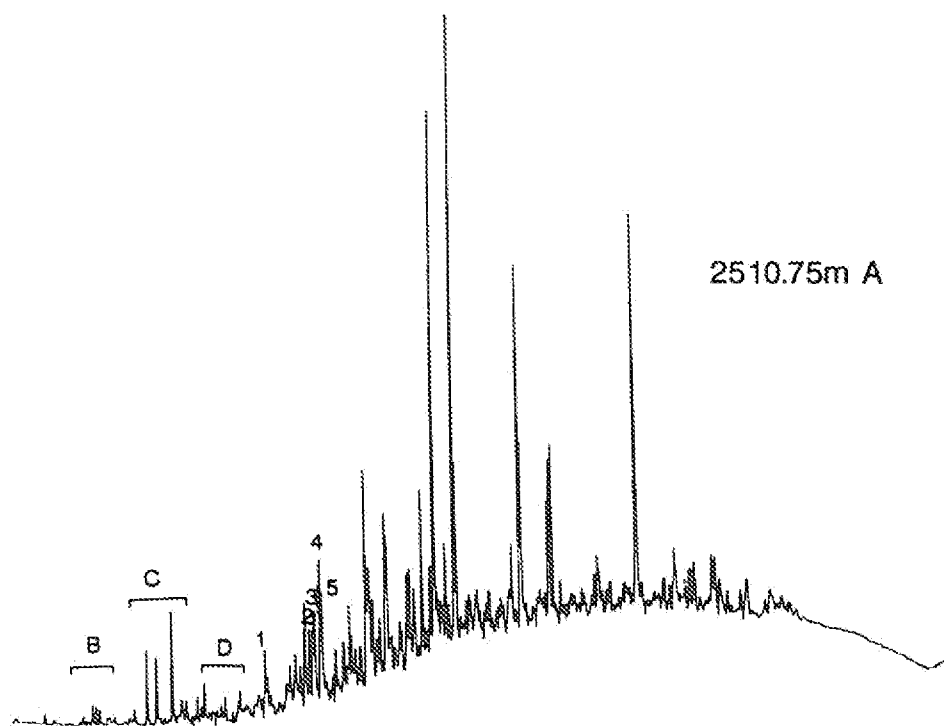
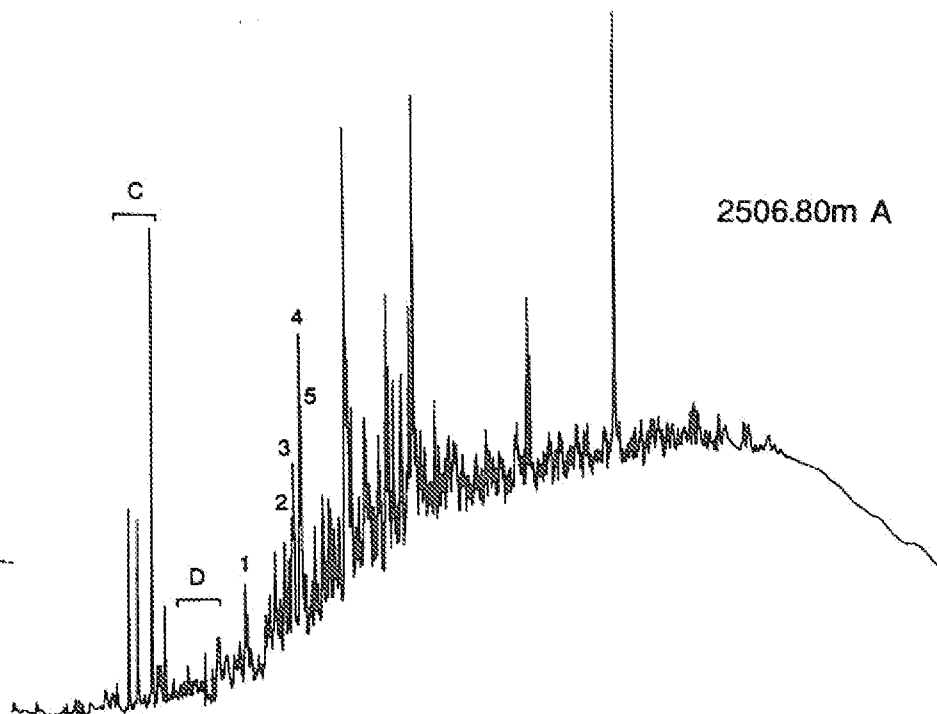
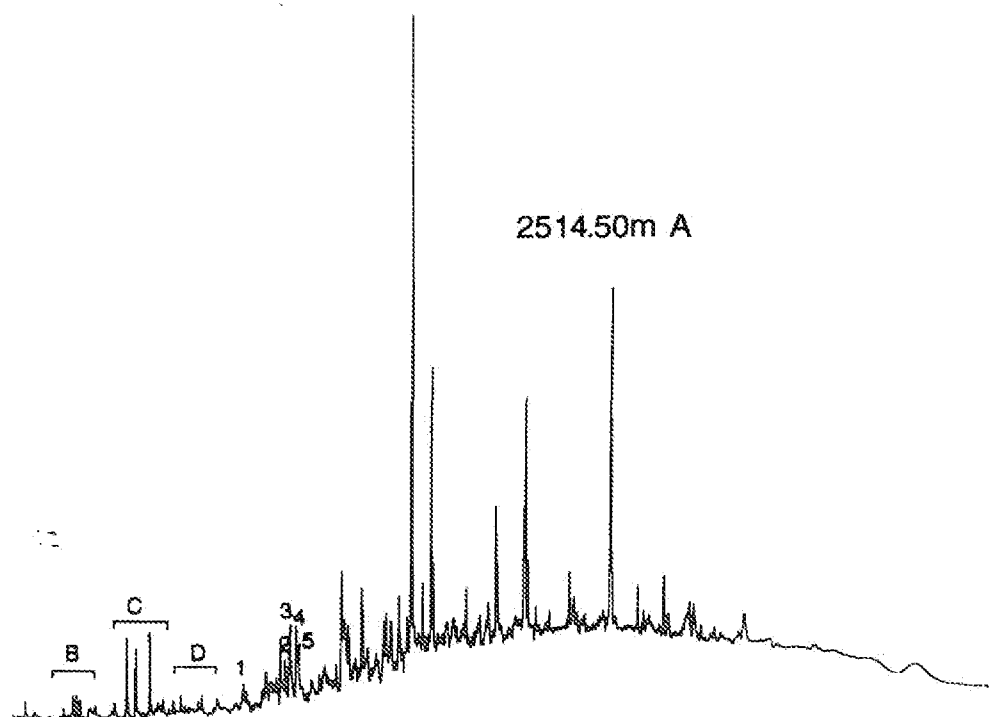


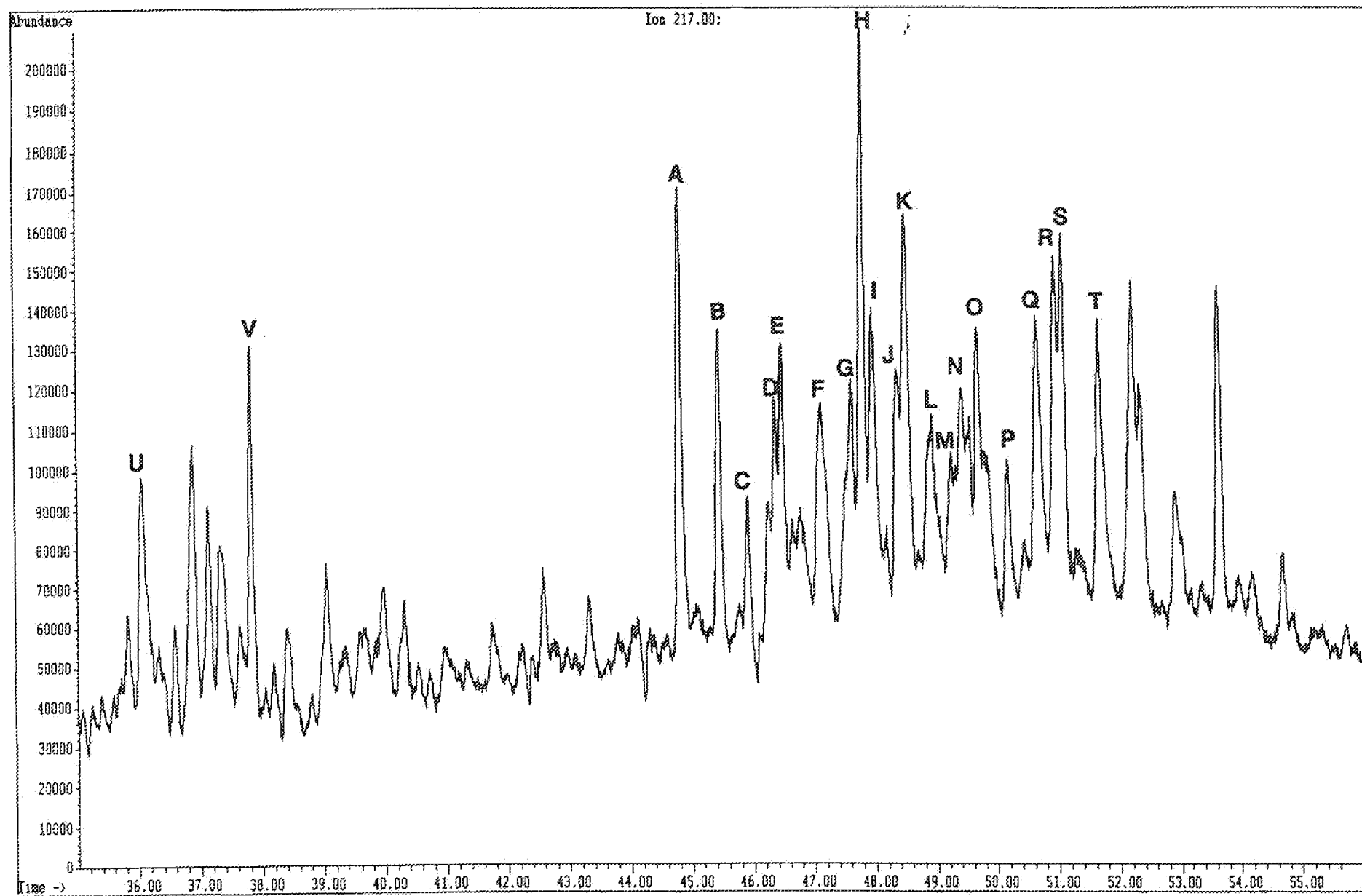
FIGURE A2.4 **C₁₅+ AROMATIC CHROMATOGRAMS**

WELL 34/7-13



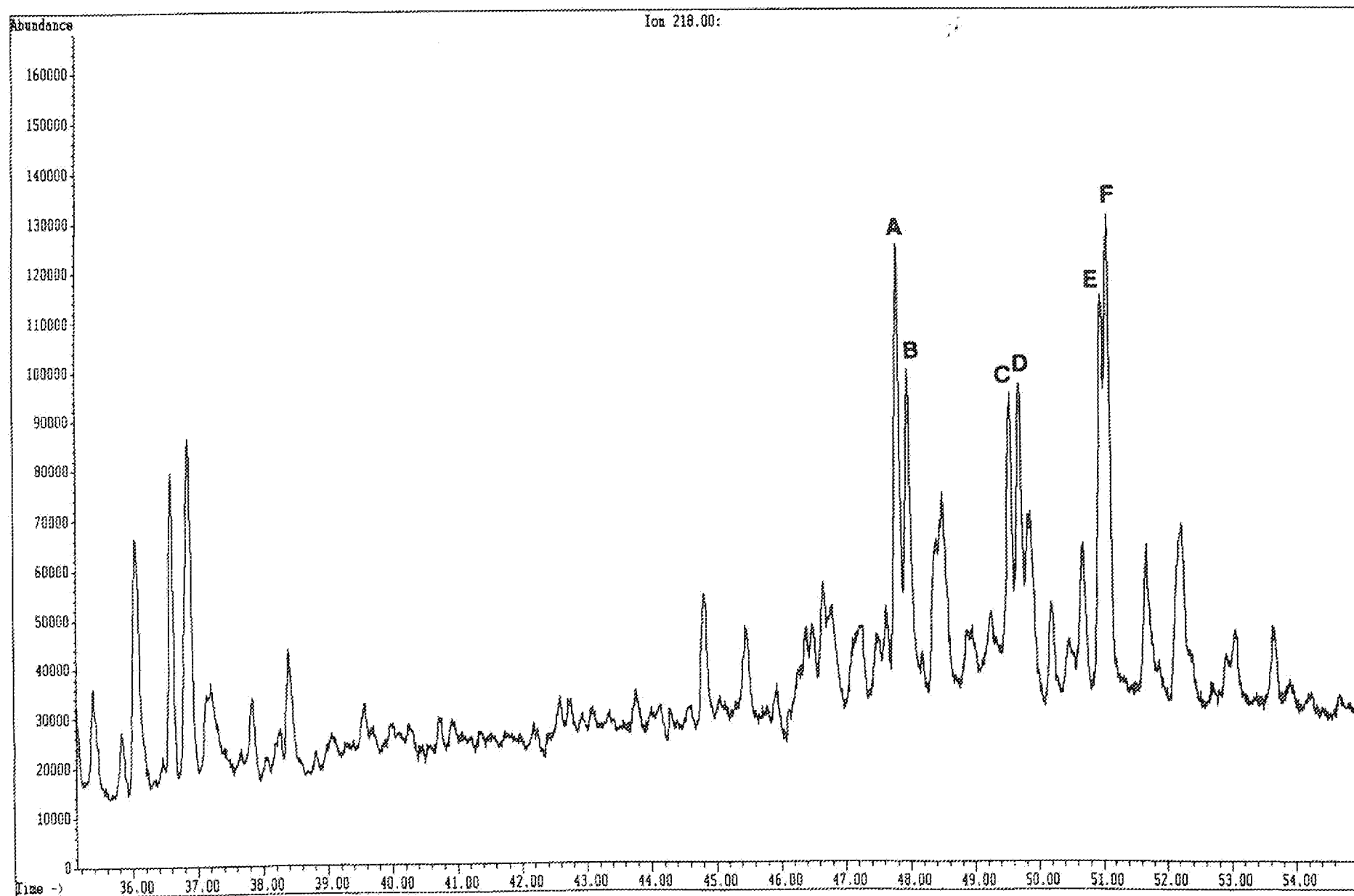
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Date Acquired:
Method File Name: BIOM.M
Sample Name: 4069-001A
Misc Info:
Bottle Number: 65

Figure: A3.1a
Well: 34/7-13
Depth: 2497.40m



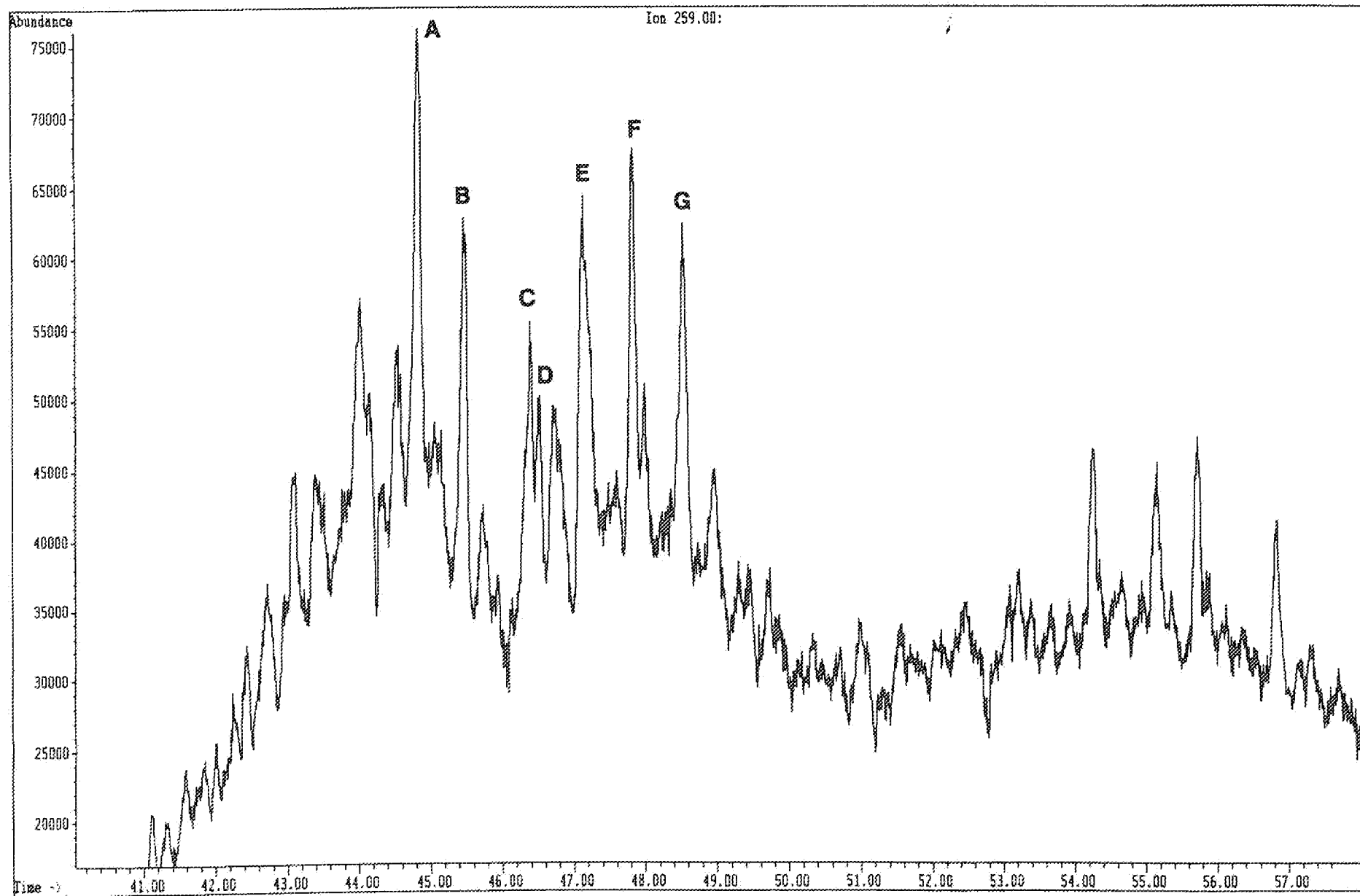
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Bottle Number: 65

Figure: A3.1b
Well: 34/7-13
Depth: 2497.40m



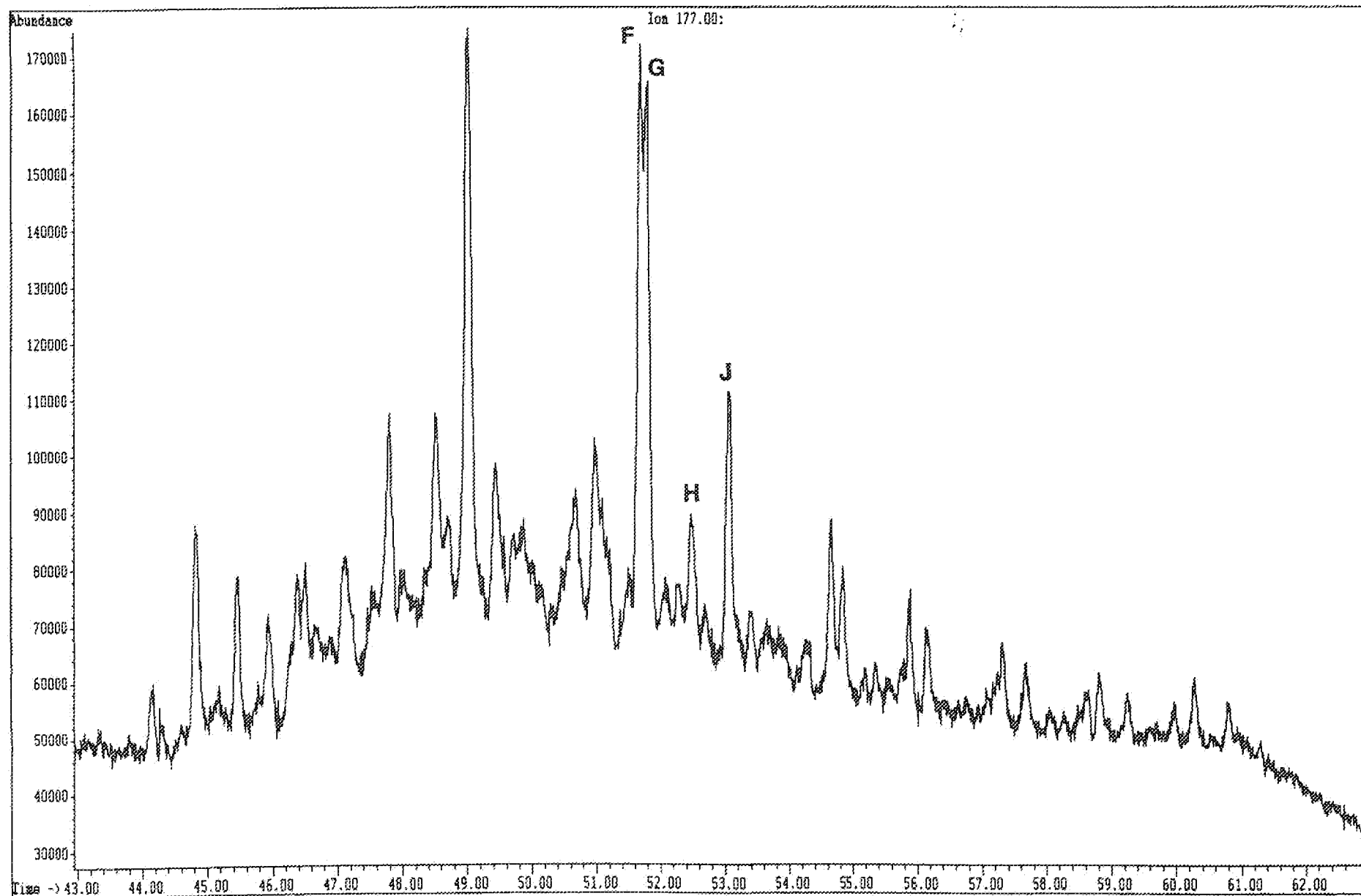
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Misc Info:
Bottle Number: 65

Figure: A3.1c
Well: 34/7-13
Depth: 2497.40m



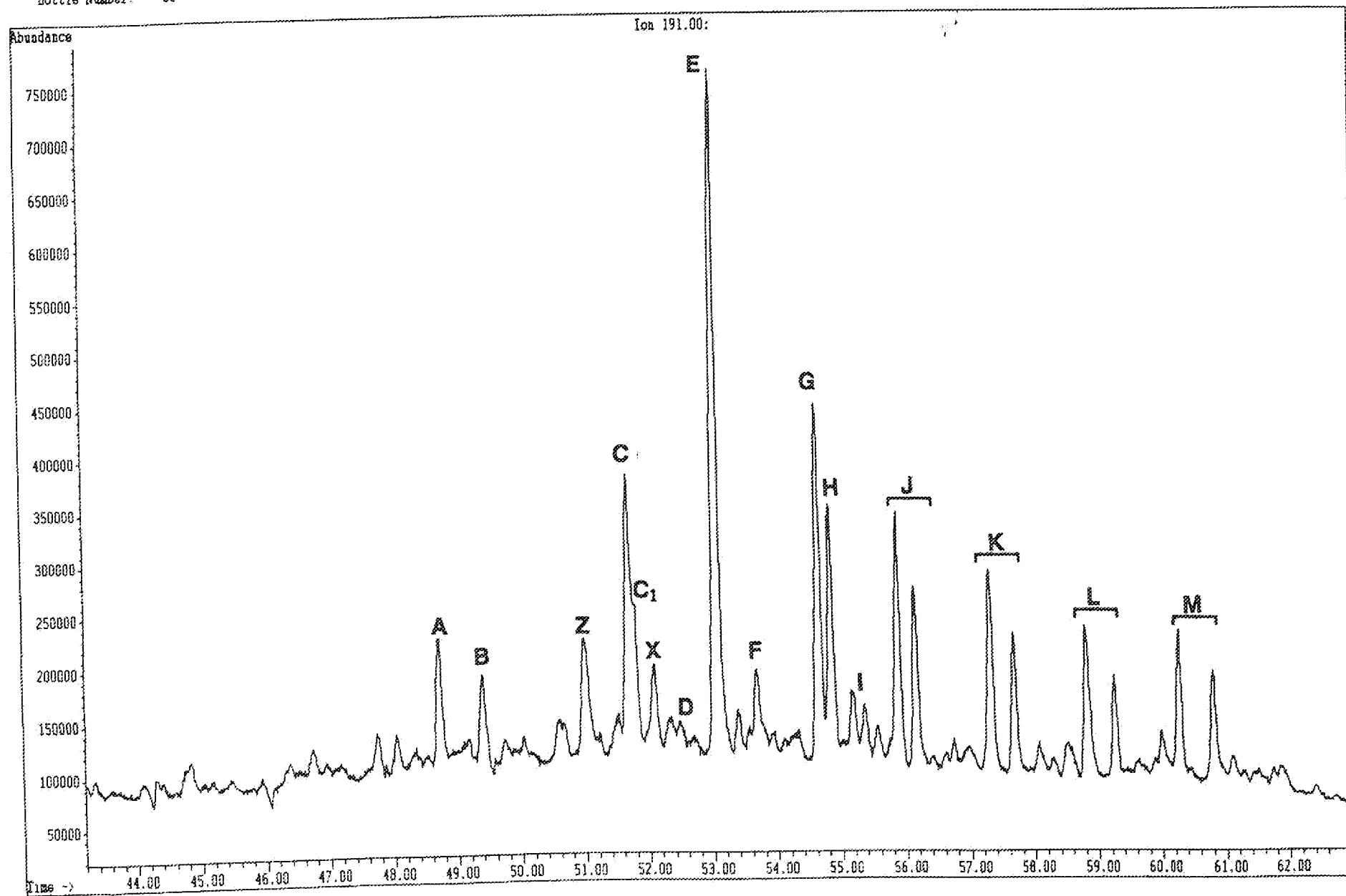
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Sample Name: 4069-001A
Misc Info:
Bottle Number: 65

Figure: A3.1d
Well: 34/7-13
Depth: 2497.40m



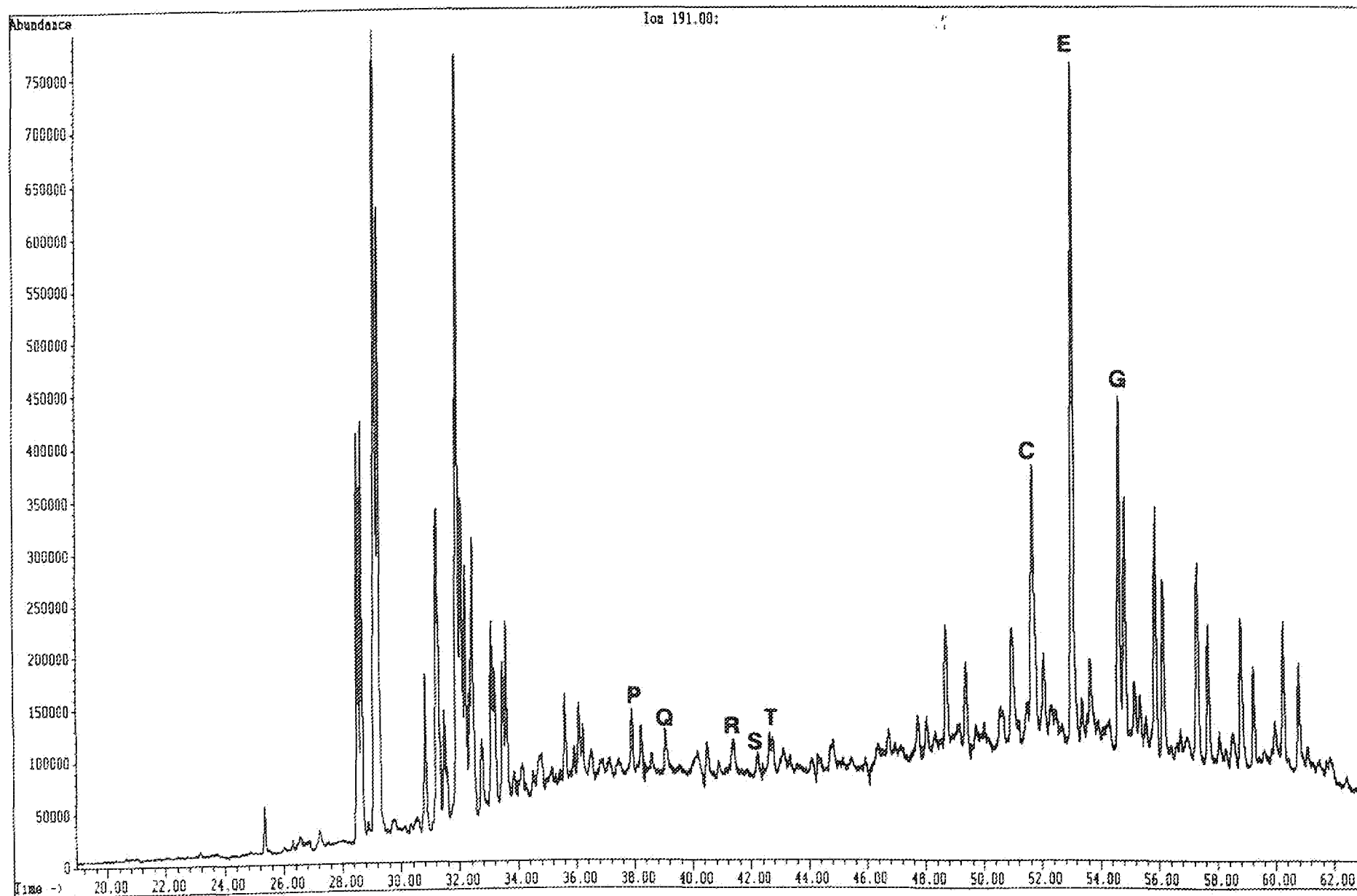
File: D:\CHEMP\DATA\6501001.D
Operator:
Date Acquired:
Method File Name: B10H.M
Sample Name: 4069-001A
Misc Info:
Bottle Number: 65

Figure: A3.1e
Well: 34/7-13
Depth: 2497.40m



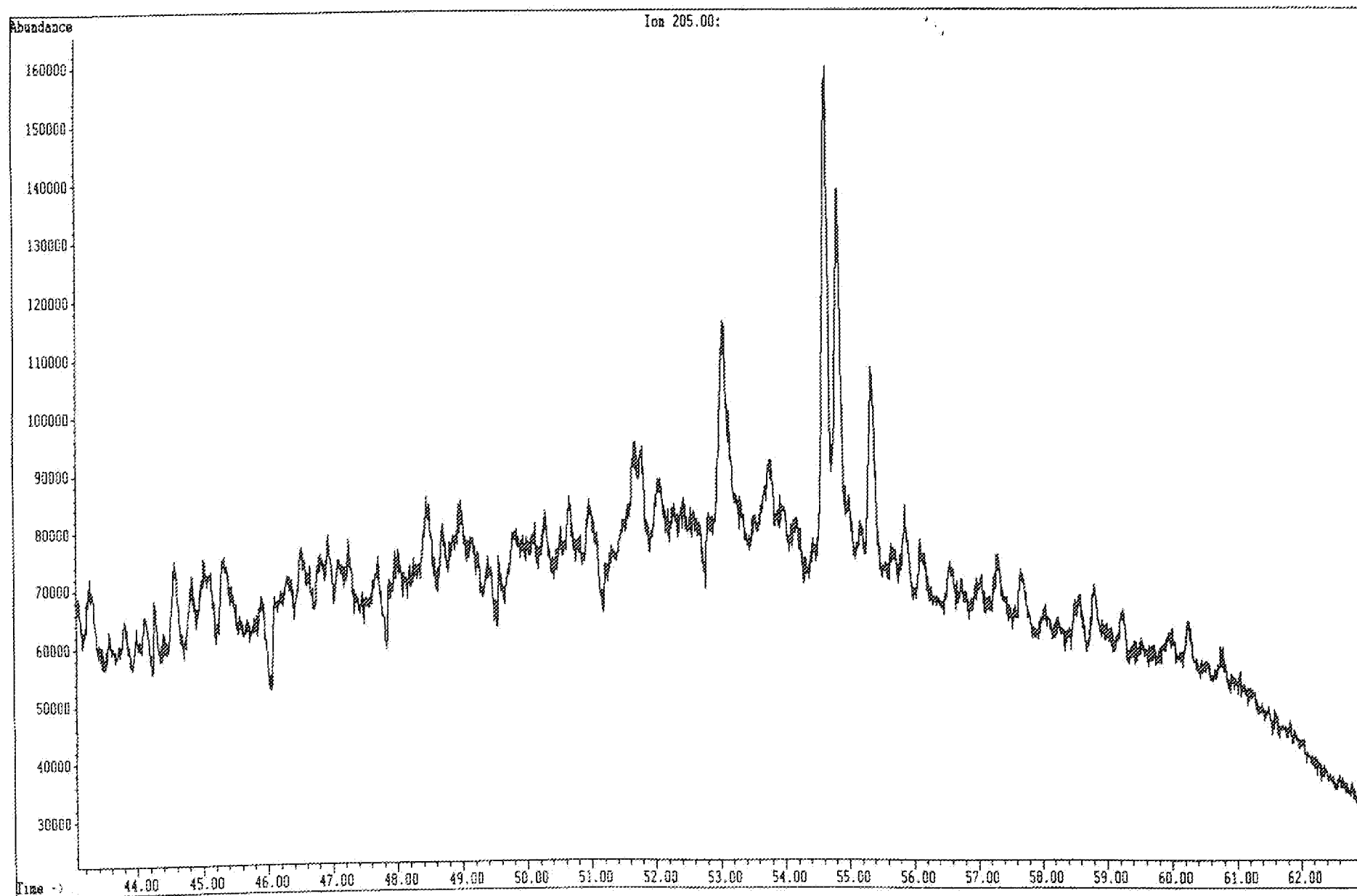
File: D:\CHEMPC\DATA\6501001.D
Operator:
Date Acquired:
Method File Name: BIOM.M
Sample Name: 4069-001A
Misc Info:
Bottle Number: 65

Figure: A3.1f
Well: 34/7-13
Depth: 2497.40m



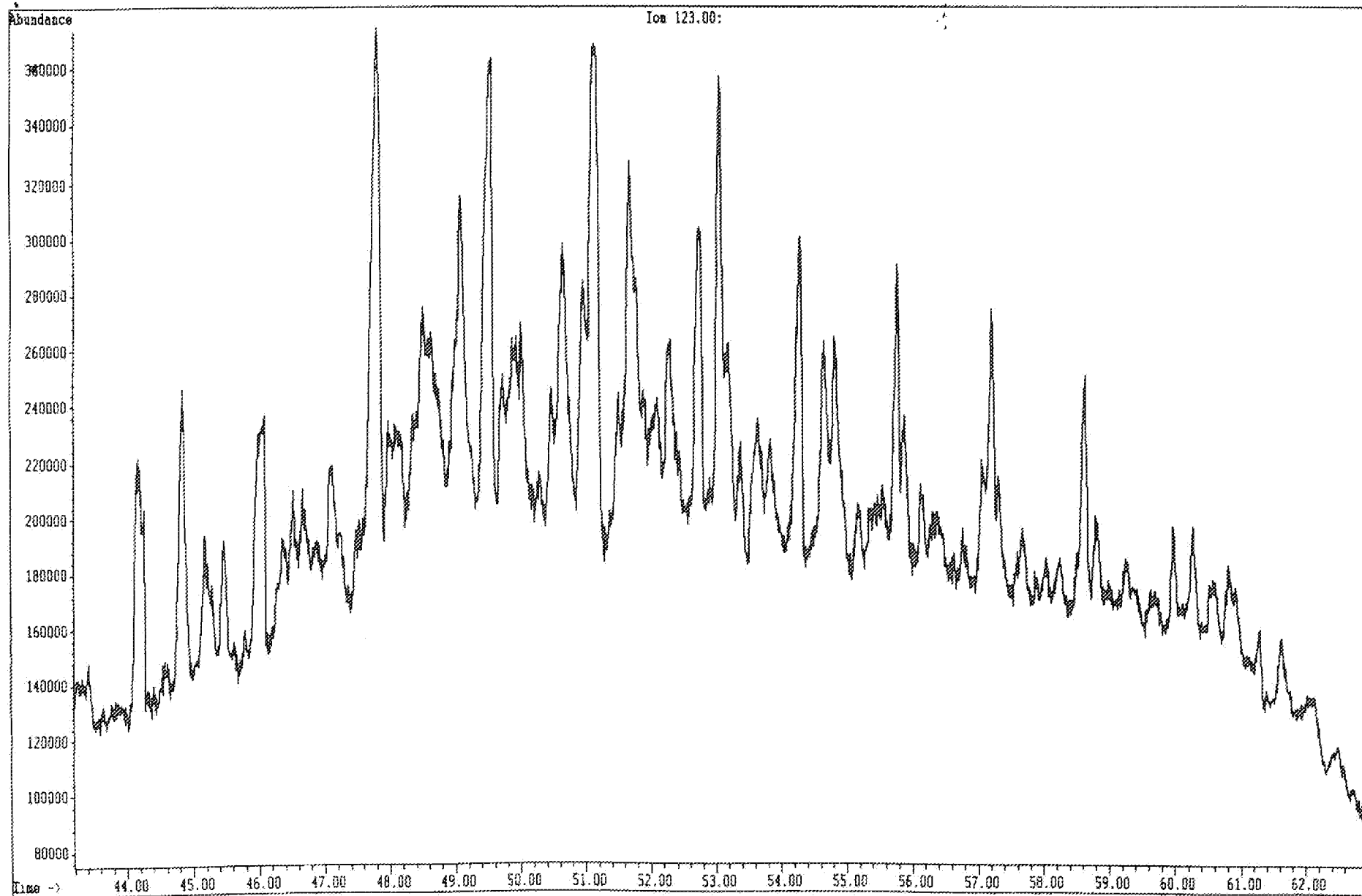
File: D:\CHEMPC\DATA\6501001.D
Operator:
Date Acquired:
Method File Name: B10M.M
Sample Name: 4069-001A
Misc Info:
Bottle Number: 65

Figure: A3.1g
Well: 34/7-13
Depth: 2497.40m



File: D:\CHEMPC\DATA\6501001.D
Operator:
Date Acquired:
Method File Name: BIOM.M
Sample Name: 4069-001A
Misc Info:
Bottle Number: 65

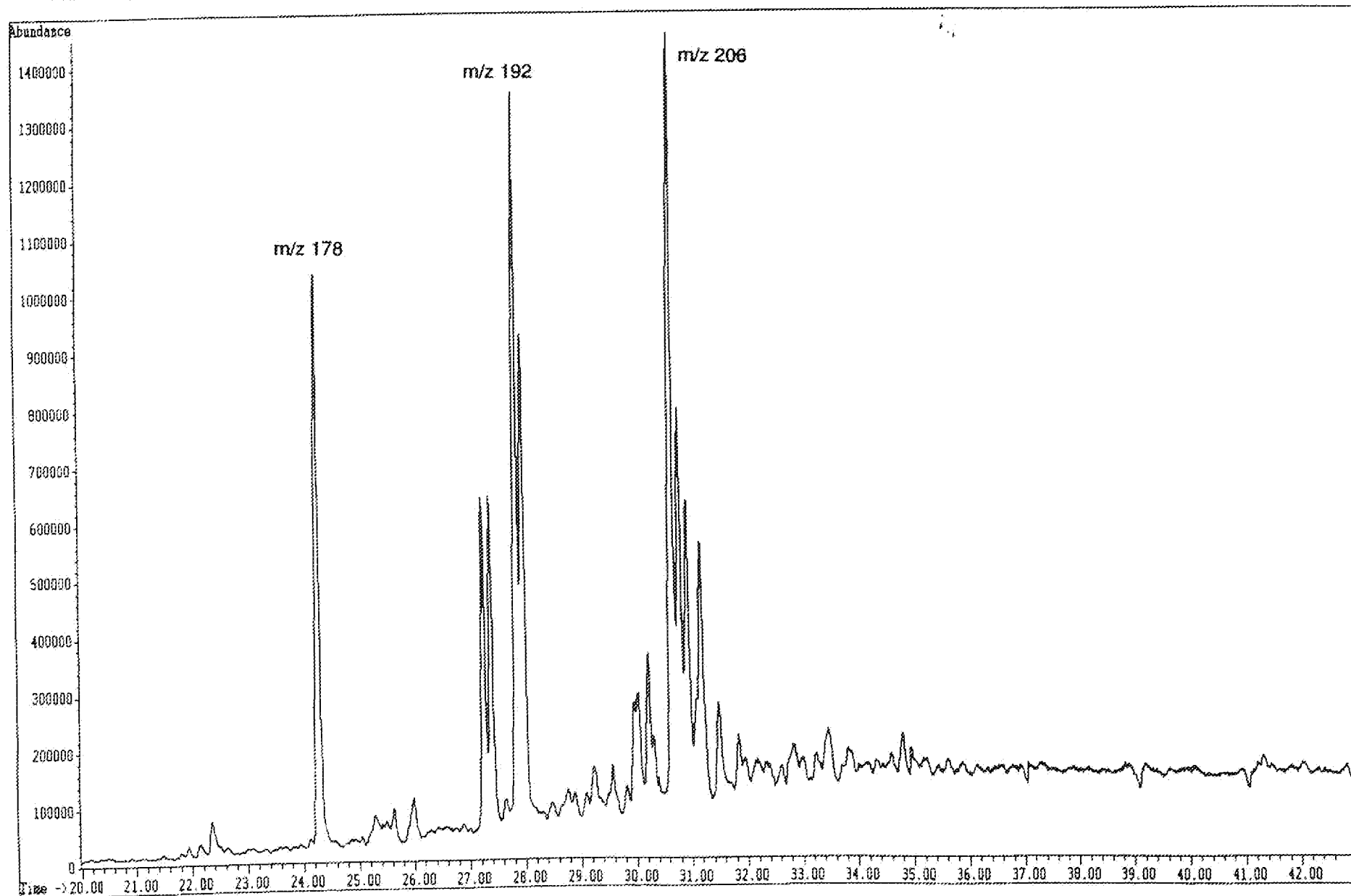
Figure: A3.1h
Well: 34/7-13
Depth: 2497.40m



File: D:\CHEMPC\DATA\5201001.D
Operator:
Date Acquired:
Method File Name: BIOMY.M
Sample Name: 4069-001A
Misc Info:
Bottle Number: 52

Phenanthrenes

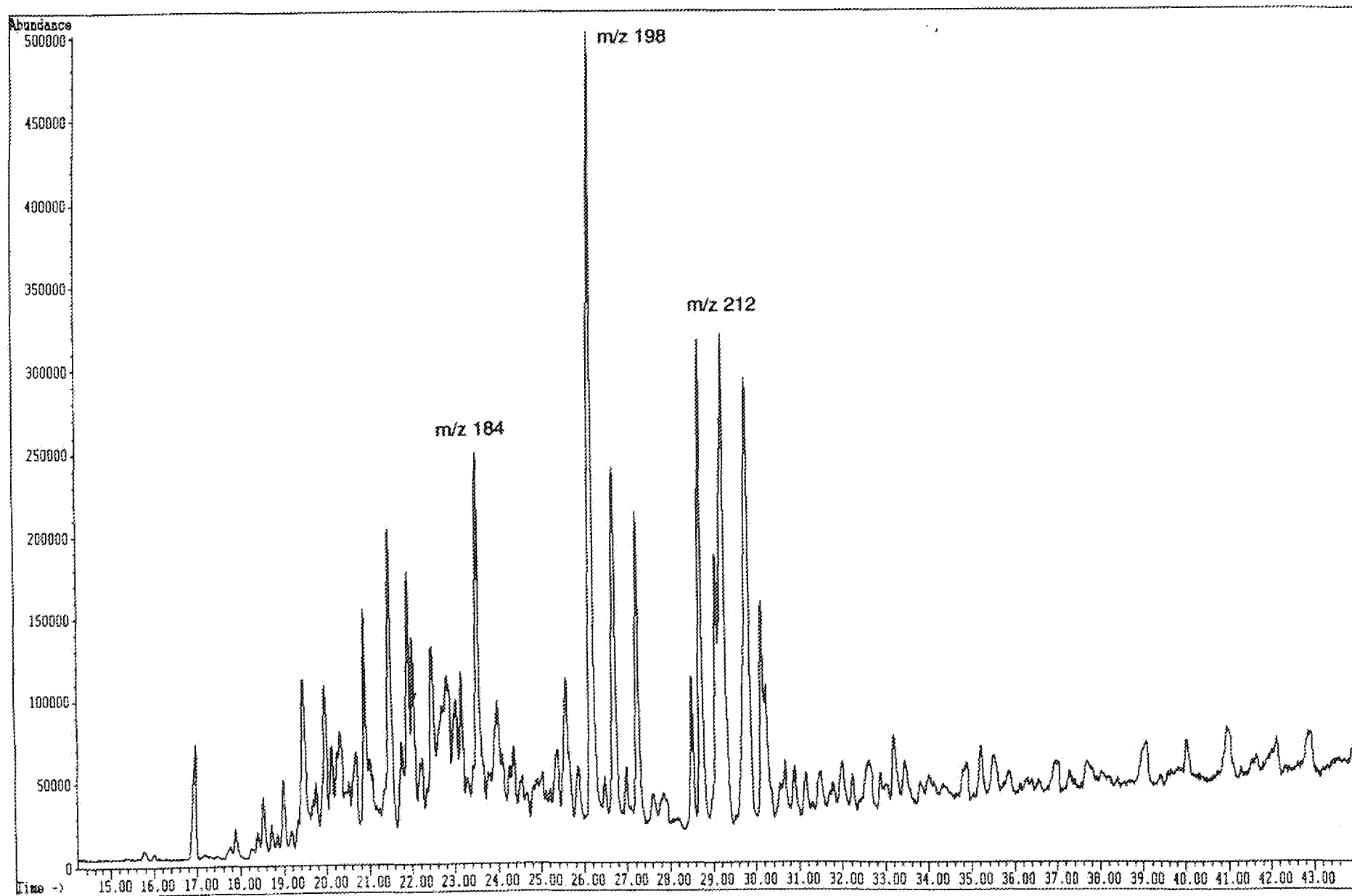
Figure: A3.1i
Well: 34/7-13
Depth: 2497.40m



File: D:\CHEMPC\DATA\5201001.D
Operator:
Date Acquired:
Method File Name: B10MY.M
Sample Name: 4069-001A
Misc Info:
Bottle Number: 52

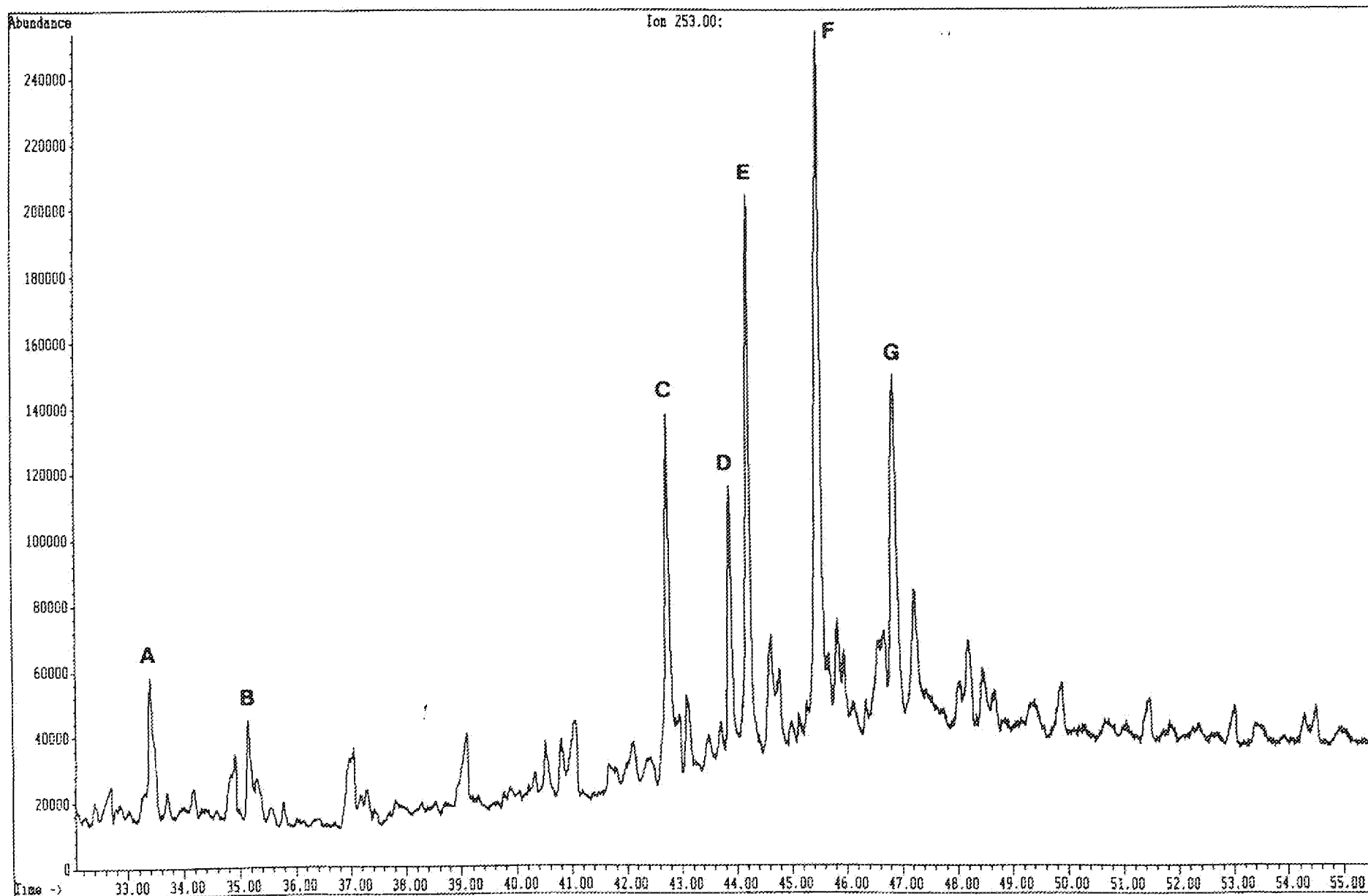
Dibenzothiophenes

Figure: A3.1j
Well: 34/7-13
Depth: 2497.40m



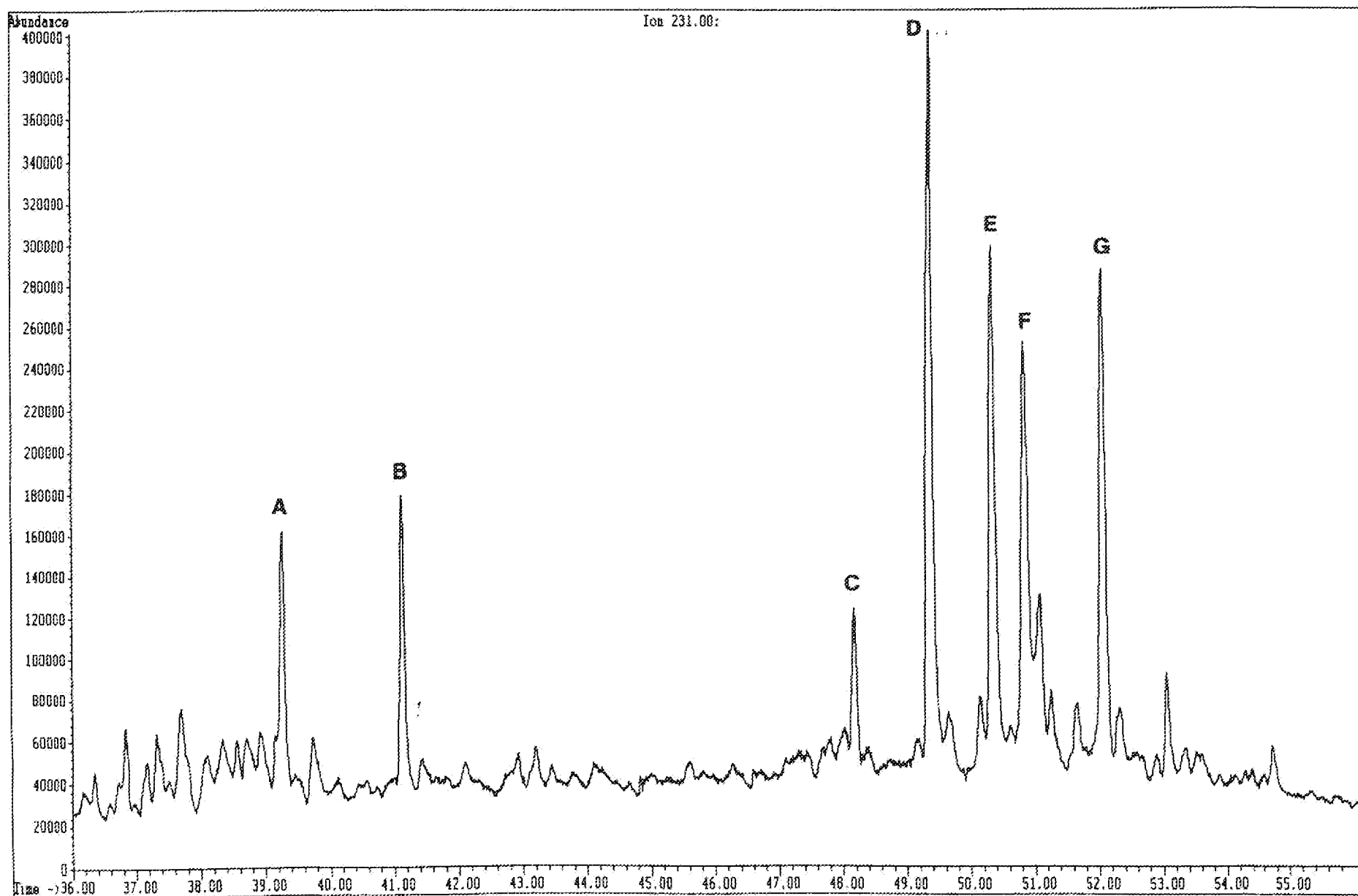
File: D:\CHEMPC\DATA\5201001.D
Operator:
Date Acquired:
Method File Name: BIOMY.M
Sample Name: 4069-001A
Misc Info:
Bottle Number: 52

Figure: A3.1k
Well: 34/7-13
Depth: 2497.40m



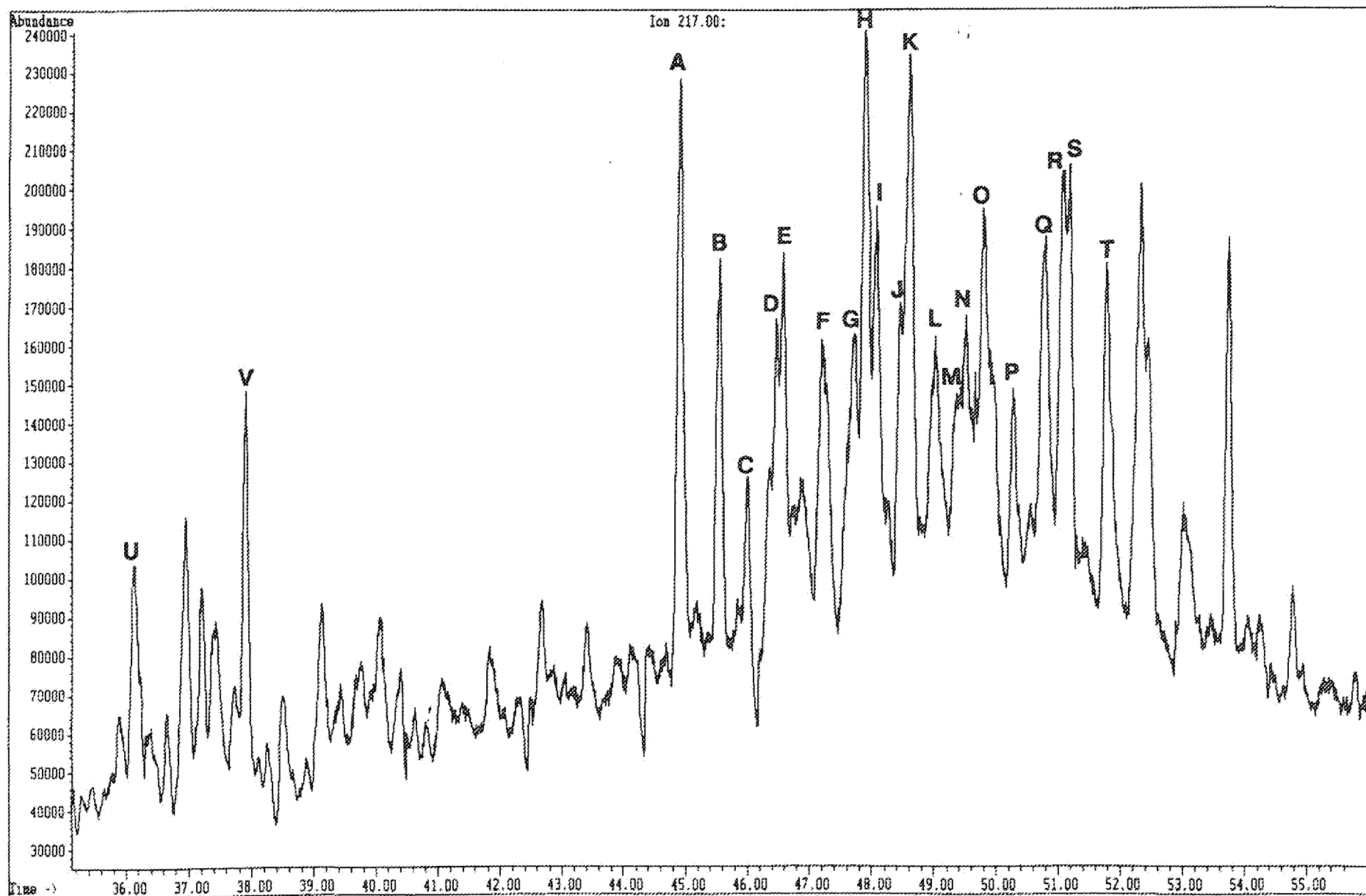
File: D:\CHEMPC\DATA\5201001.D
Operator:
Date Acquired:
Method File Name: B10MY.M
Sample Name: 4069-001A
Misc Info:
Bottle Number: 52

Figure: A3.11
Well: 34/7-13
Depth: 2497.40m



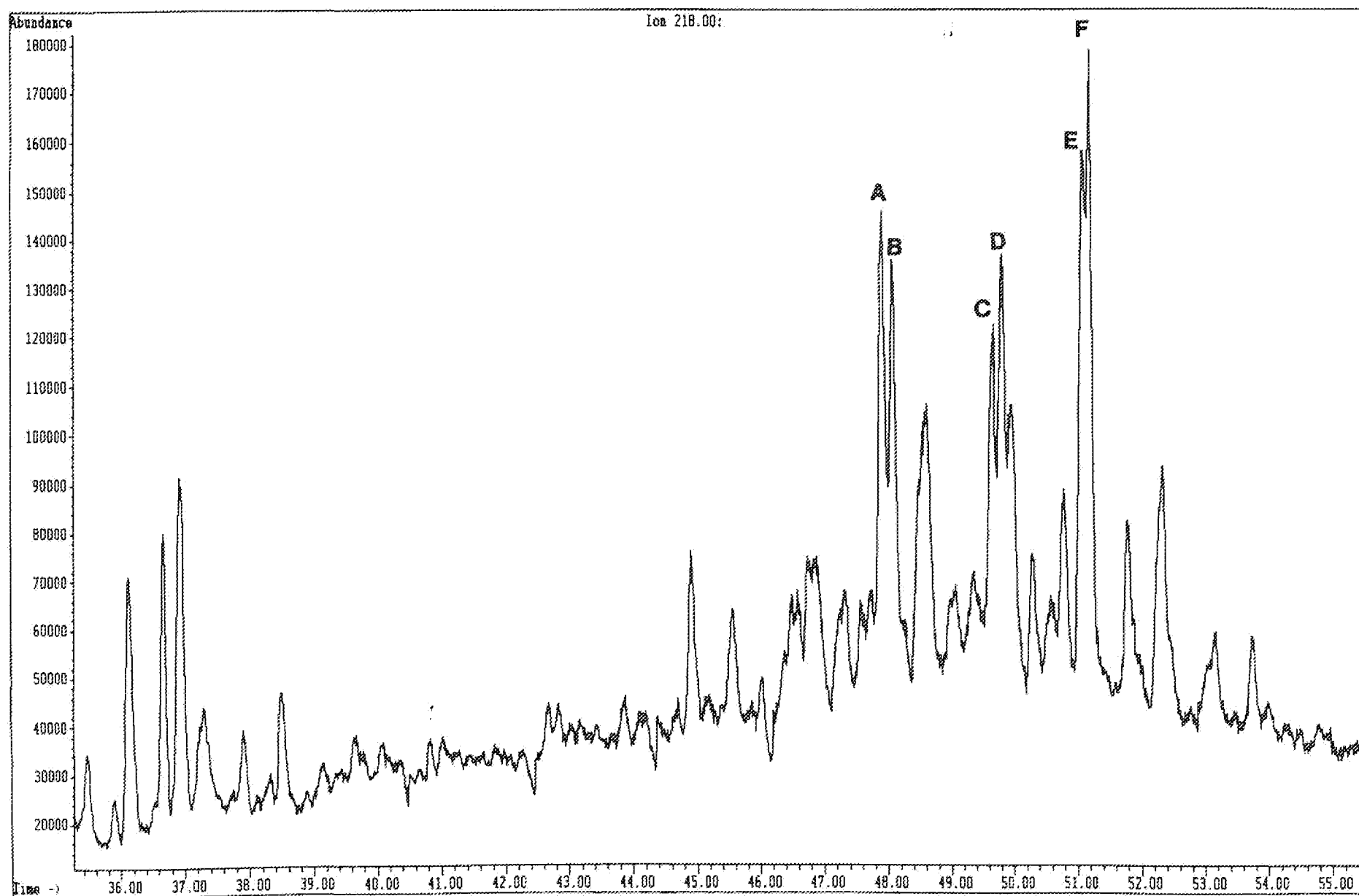
File: D:\CHEMPC\DATA\6601002.D
Operator:
Date Acquired:
Method File Name: B10M.M
Sample Name: 4069-002A
Misc Info:
Bottle Number: 66

Figure: A3.2a
Well: 34/7-13
Depth: 2501.60m



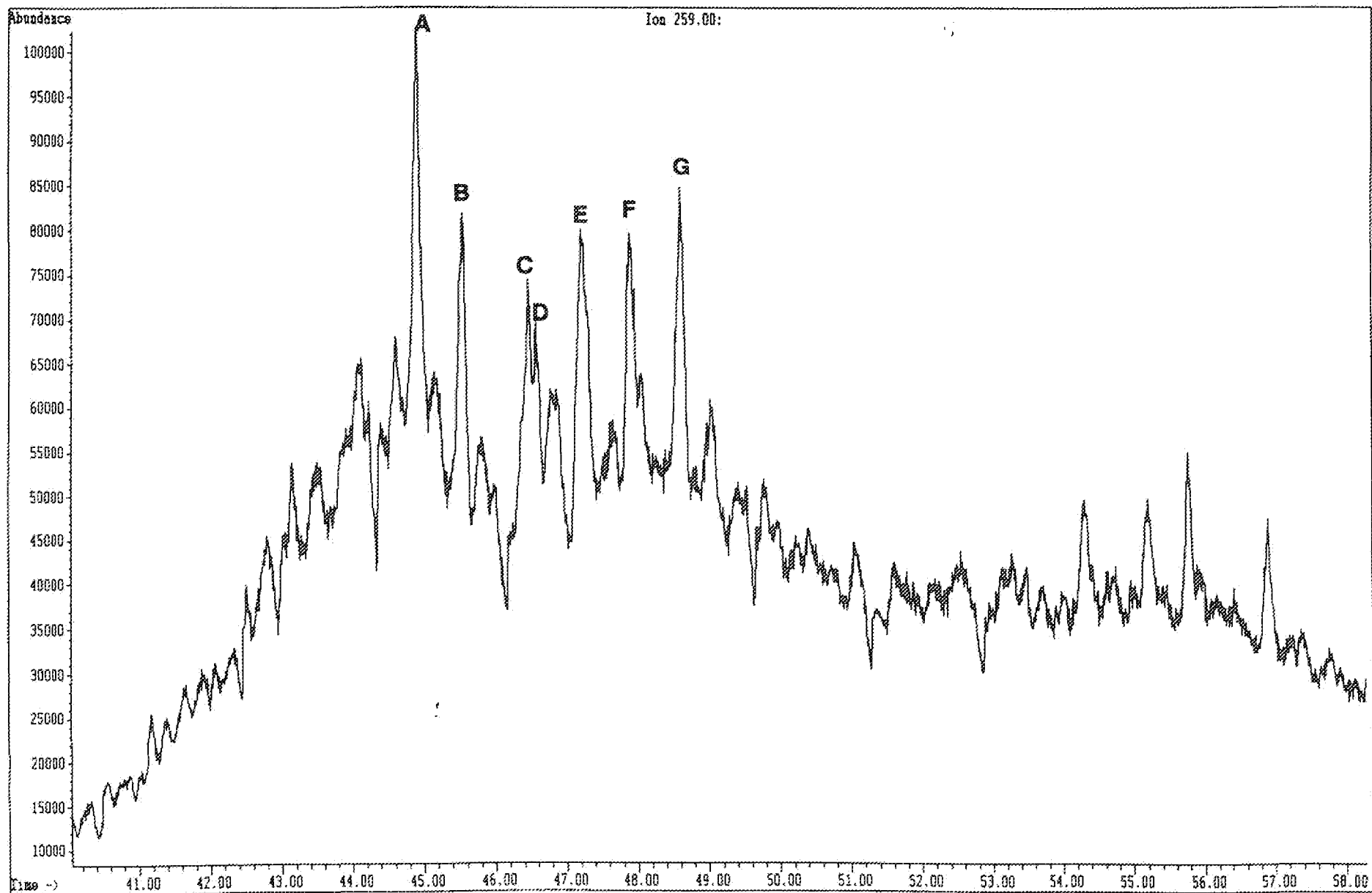
File: D:\CHEMPC\DATA\6601002.D
Operator:
Date Acquired:
Method File Name: BIOM.M
Sample Name: 4069-002A
Misc Info:
Bottle Number: 66

Figure: A3.2b
Well: 34/7-13
Depth: 2501.60m



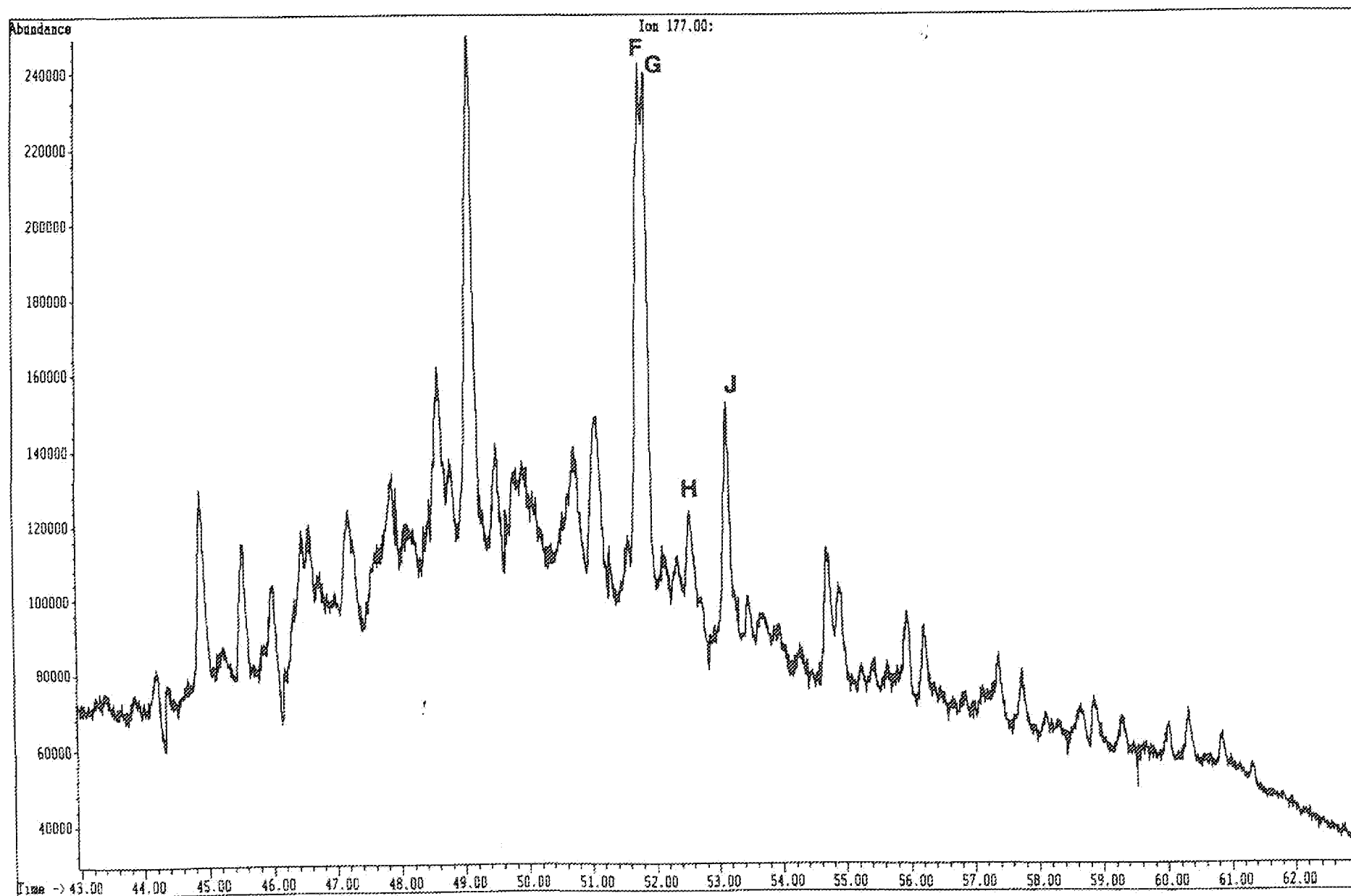
File: D:\CHEMPC\DATA\6601002.D
Operator:
Date Acquired:
Method File Name: B10M.M
Sample Name: 4069-002A
Misc Info:
Bottle Number: 66

Figure: A3.2c
Well: 34/7-13
Depth: 2501.60m



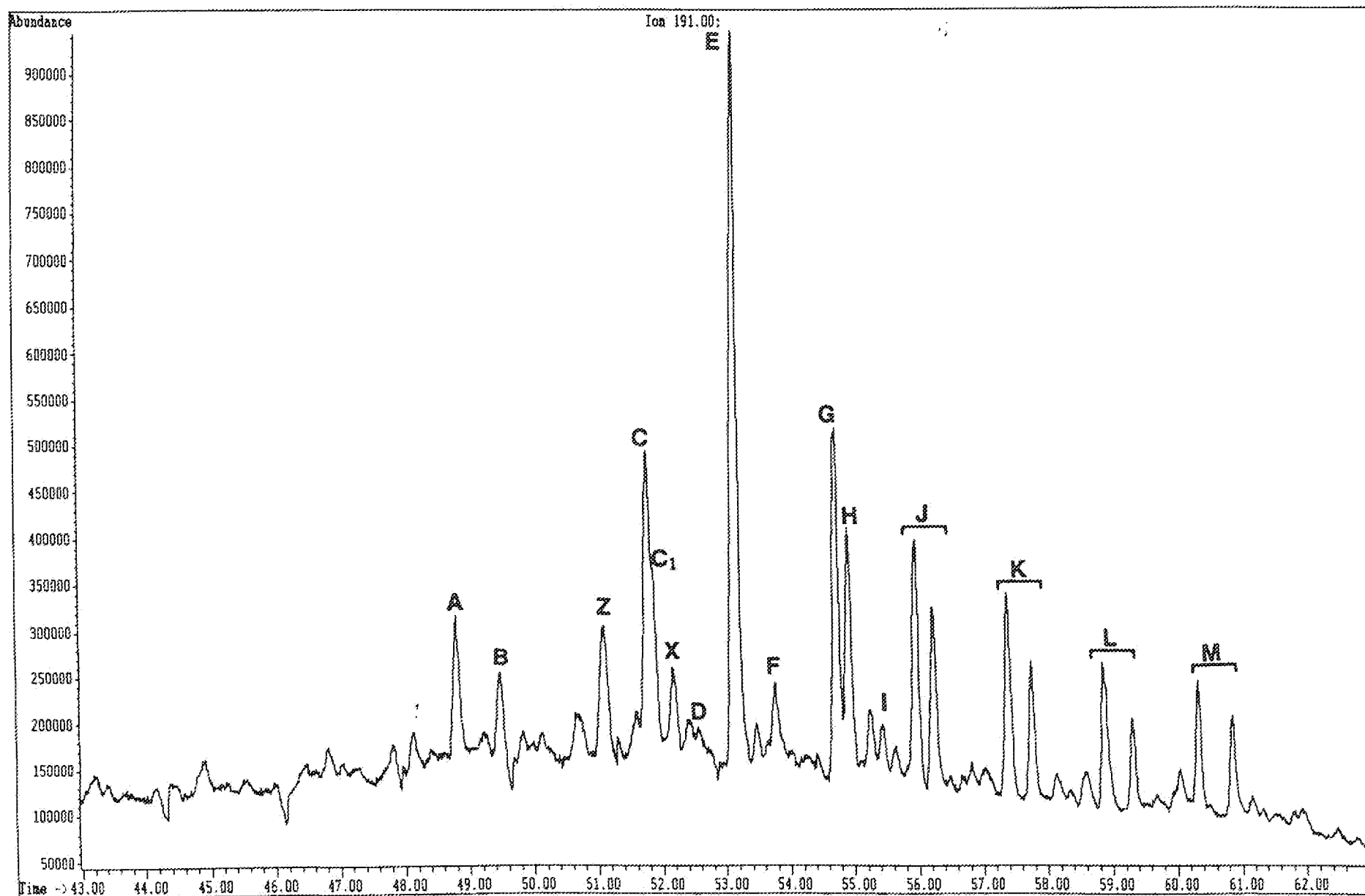
File: D:\CHEMPC\DATA\6601002.D
Operator:
Date Acquired:
Method File Name: BIOM.M
Sample Name: 4069-002A
Misc Info:
Bottle Number: 66

Figure: A3.2d
Well: 34/7-13
Depth: 2501.60m



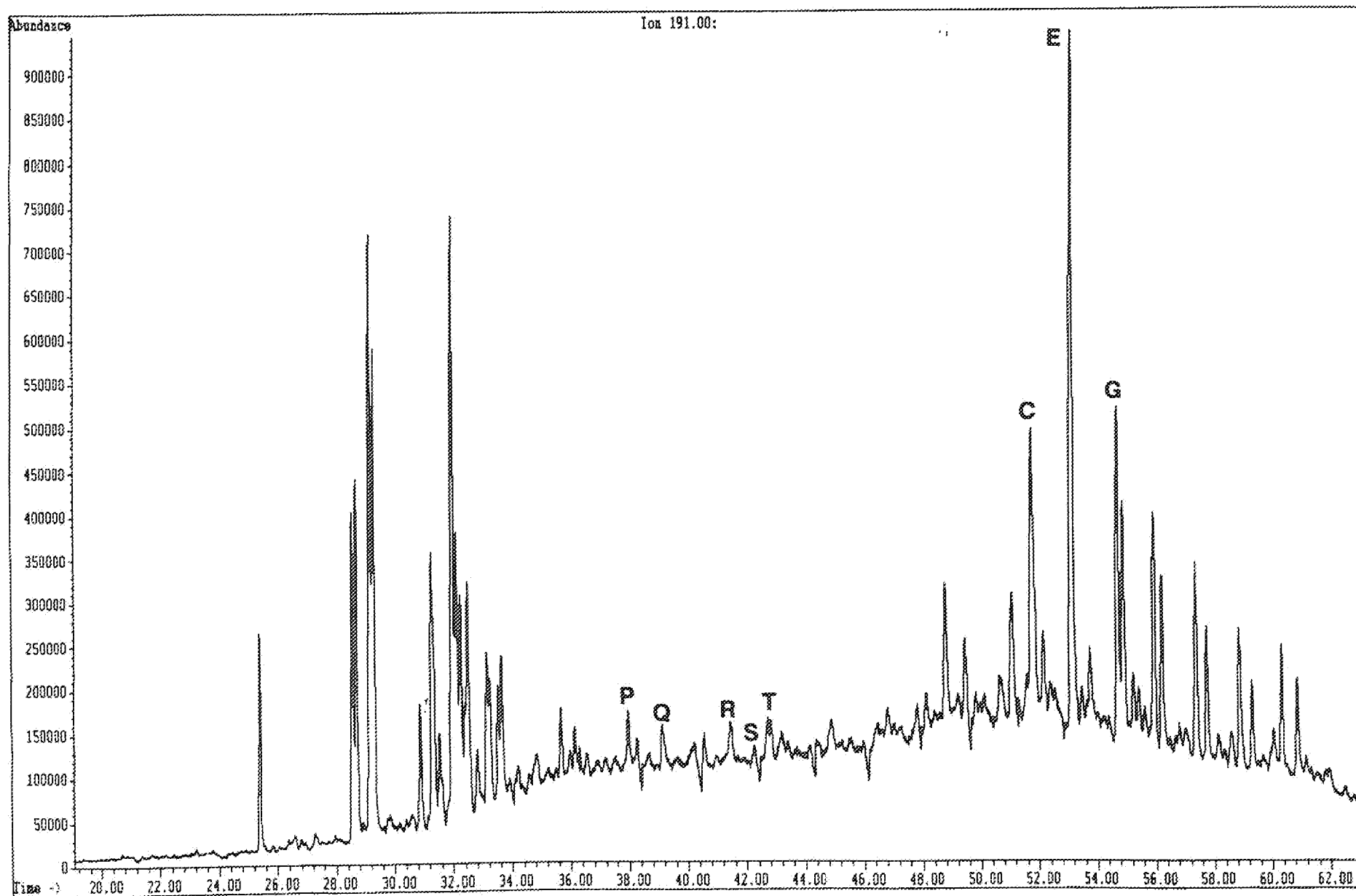
File: D:\CHEMPC\DATA\6601002.D
Operator:
Date Acquired:
Method File Name: BIOM.M
Sample Name: 4069-002A
Misc Info:
Bottle Number: 66

Figure: A3.2e
Well: 34/7-13
Depth: 2501.60m



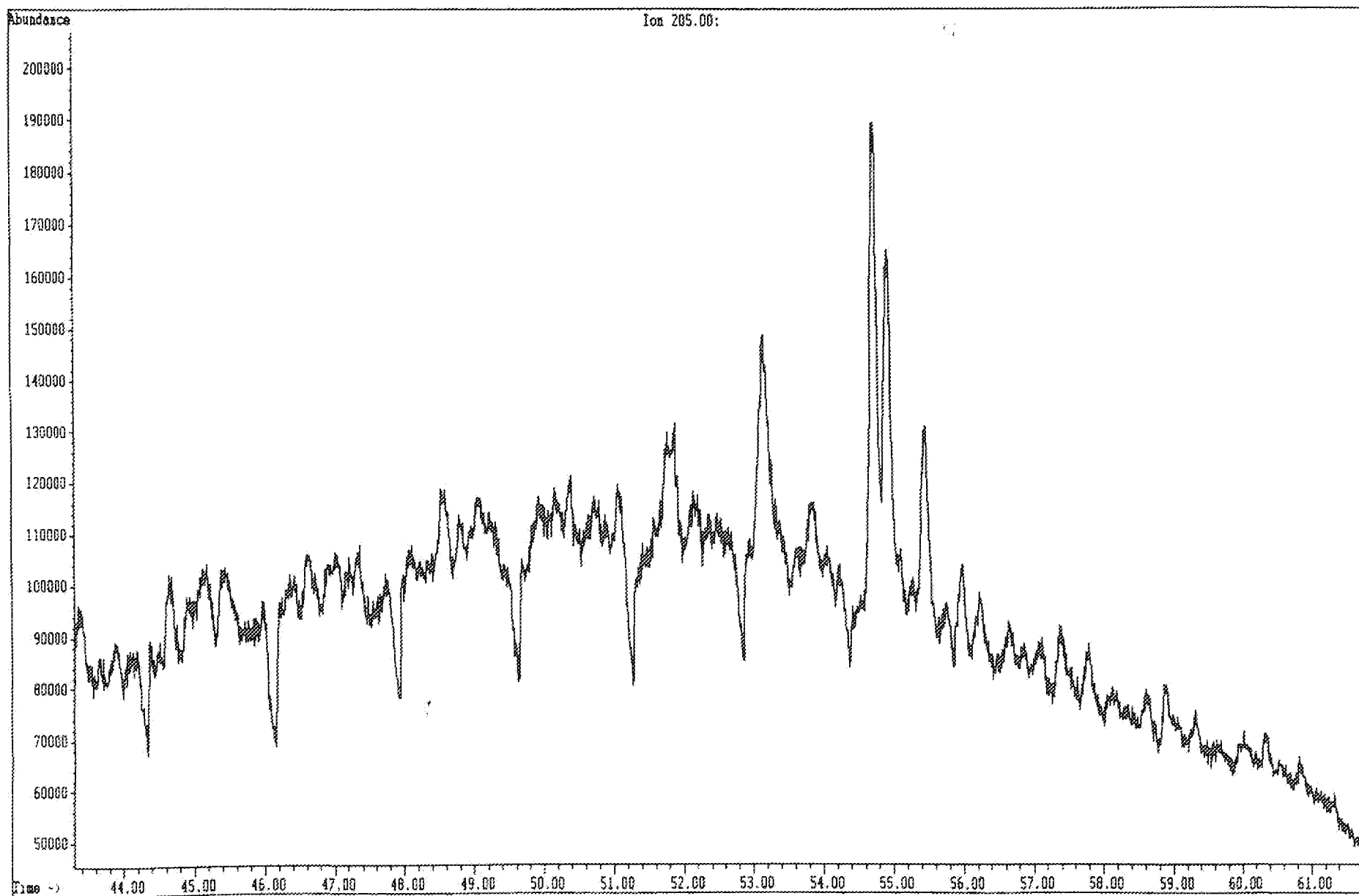
File: D:\CHEMPC\DATA\6601002.D
Operator:
Date Acquired:
Method File Name: BICM.M
Sample Name: 4069-002A
Misc Info:
Bottle Number: 66

Figure: A3.2f
Well: 34/7-13
Depth: 2501.60m



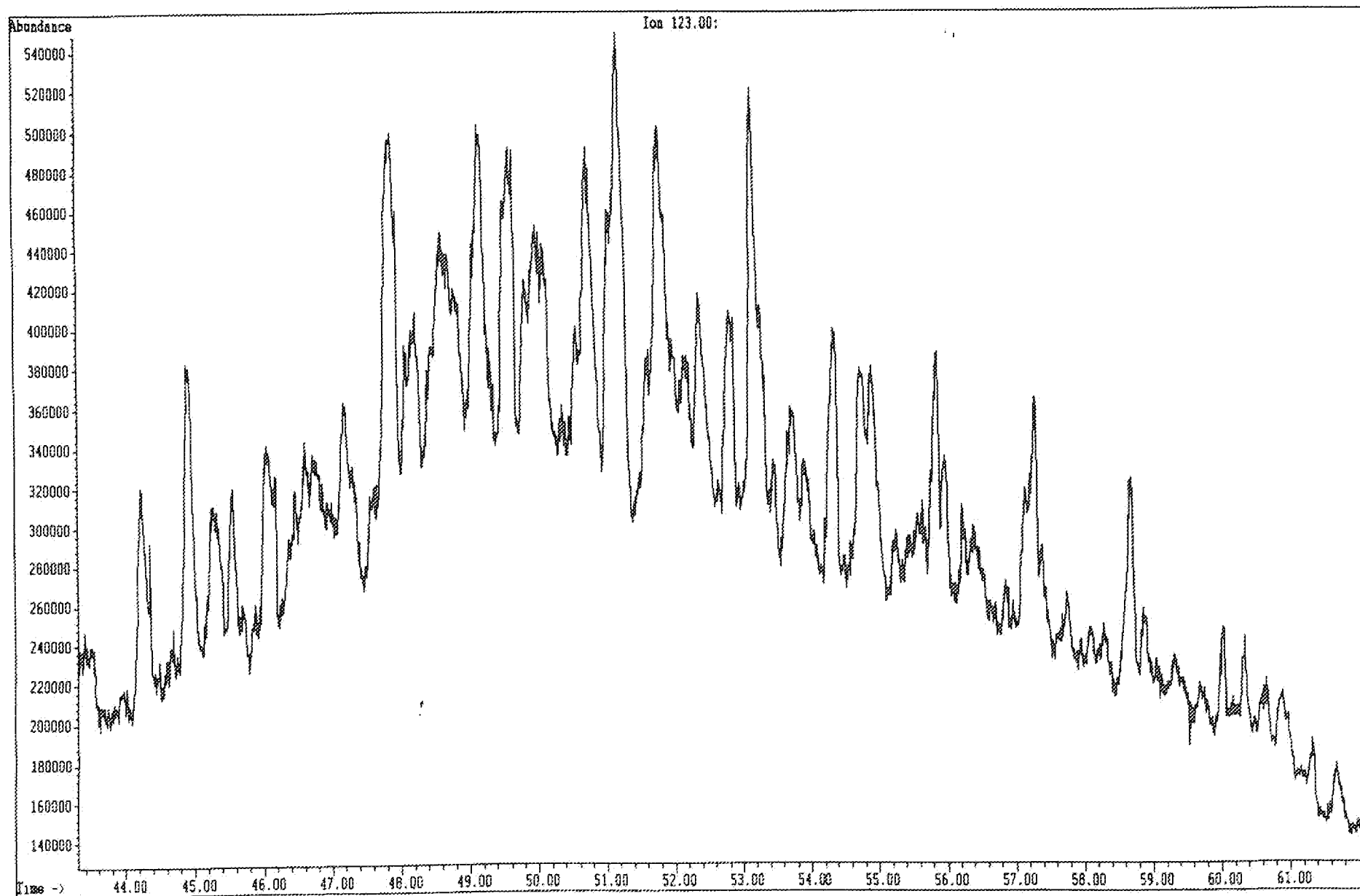
File: D:\CHEMPC\DATA\6601002.D
Operator:
Date Acquired:
Method File Name: h10M.M
Sample Name: 4069-002A
Misc Info:
Bottle Number: 66

Figure: A3.2g
Well: 34/7-13
Depth: 2501.60m



File: D:\CHEMPC\DATA\6601002.D
Operator:
Date Acquired:
Method File Name: BION.M
Sample Name: 4069-002A
Misc Info:
Bottle Number: 66

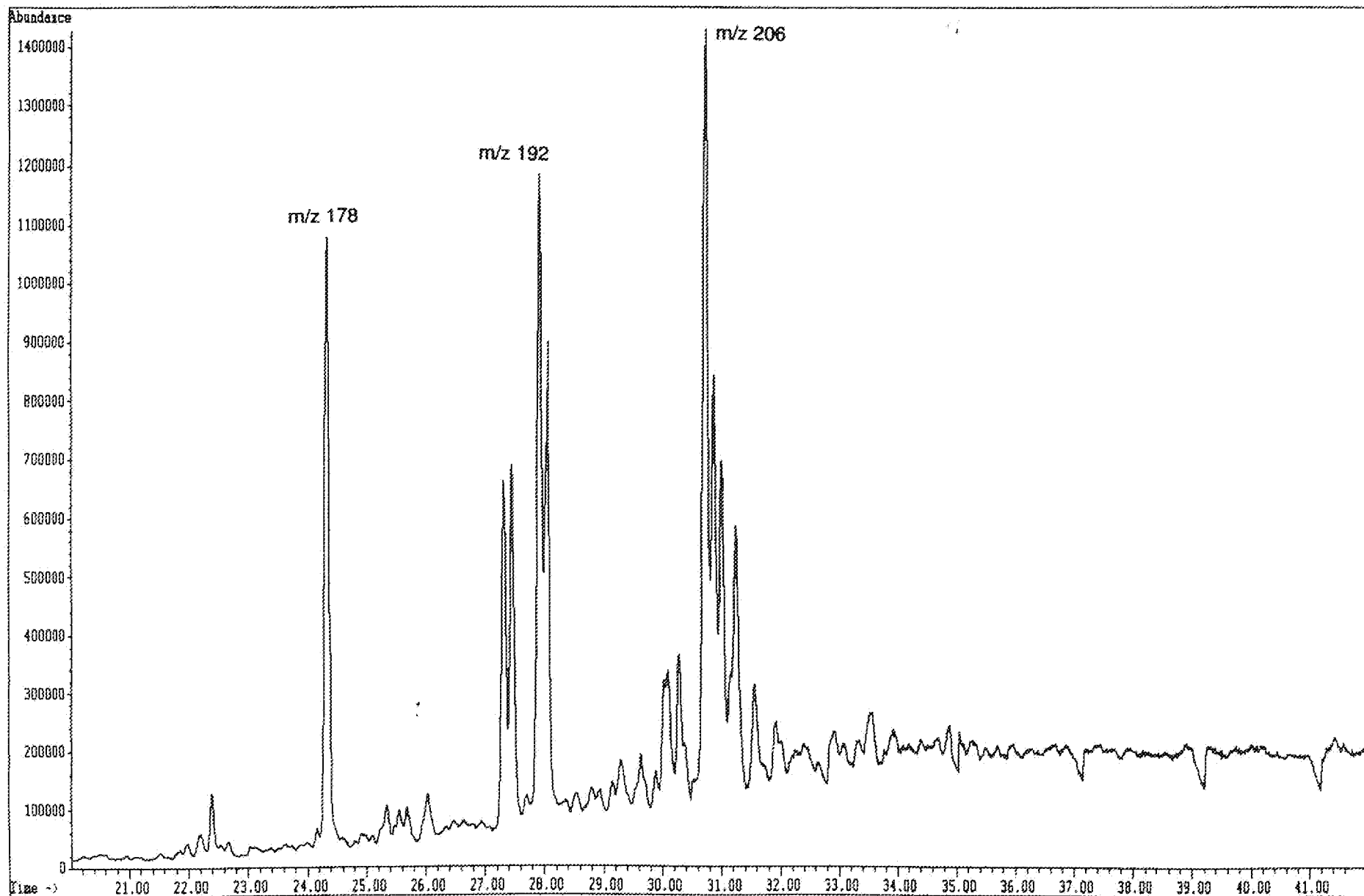
Figure: A3.2h
Well: 34/7-13
Depth: 2501.60m



File: D:\CHEMPC\DATA\5301002.D
Operator:
Date Acquired:
Method File Name: BTOMY.M
Sample Name: 4069-002A
Misc Info:
Bottle Number: 53

Phenanthrenes

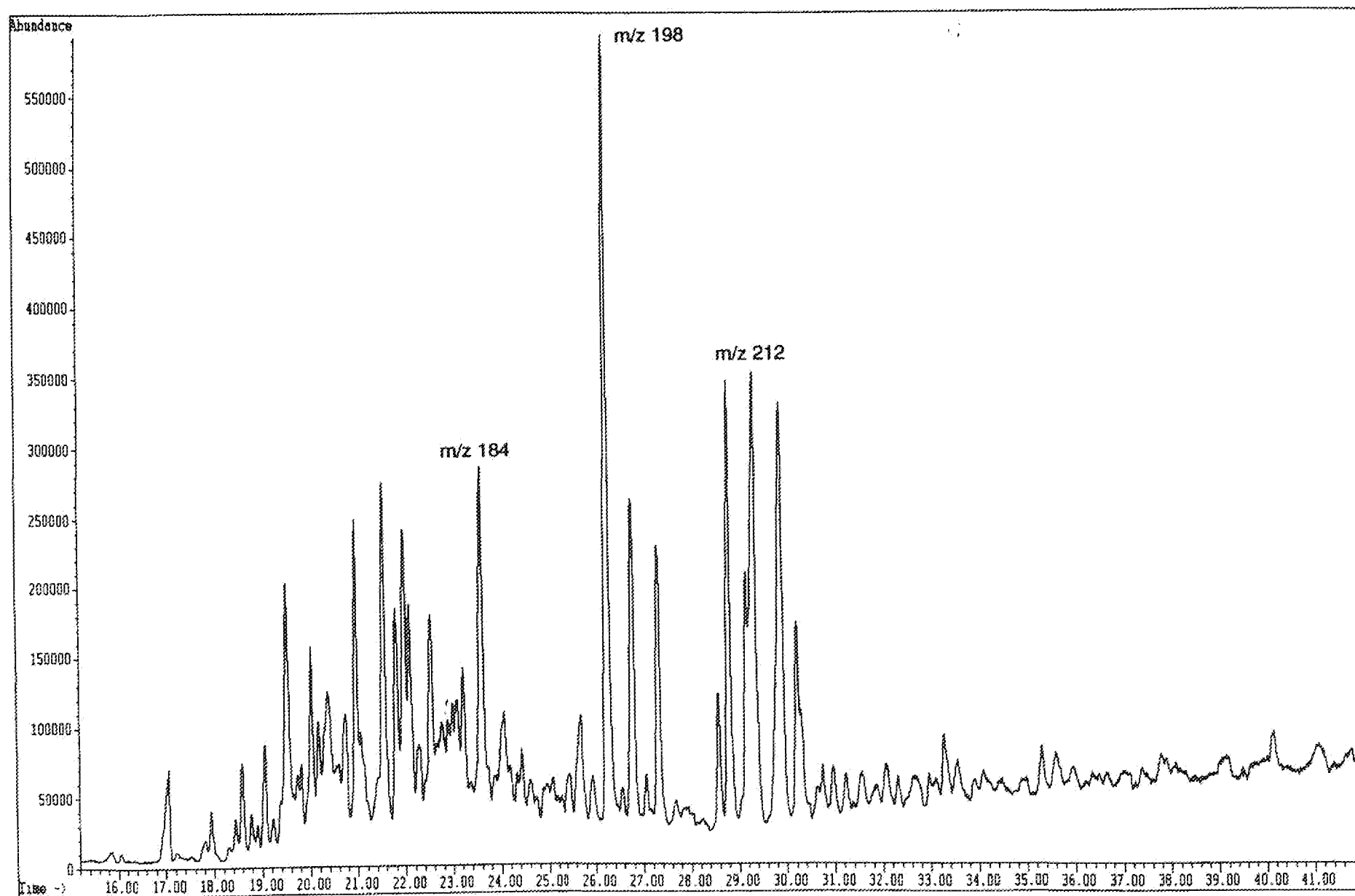
Figure: A3.2i
Well: 34/7-13
Depth: 2501.60m



File: D:\CHEMPC\DATA\5301002.D
Operator:
Date Acquired:
Method File Name: B10MY.M
Sample Name: 4069-002A
Misc Info:
Bottle Number: 53

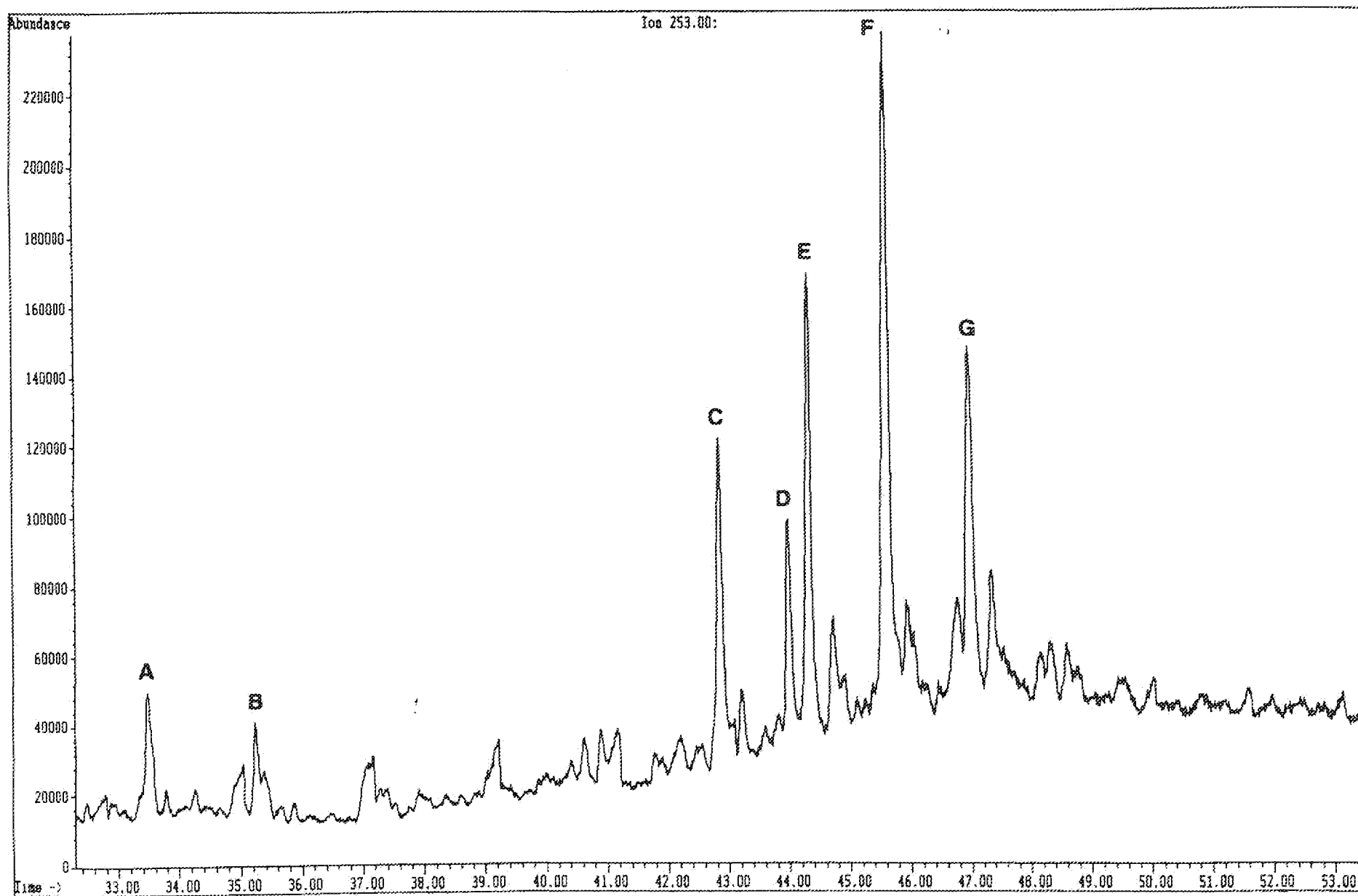
Dibenzothiophenes

Figure: A3.2j
Well: 34/7-13
Depth: 2501.60m



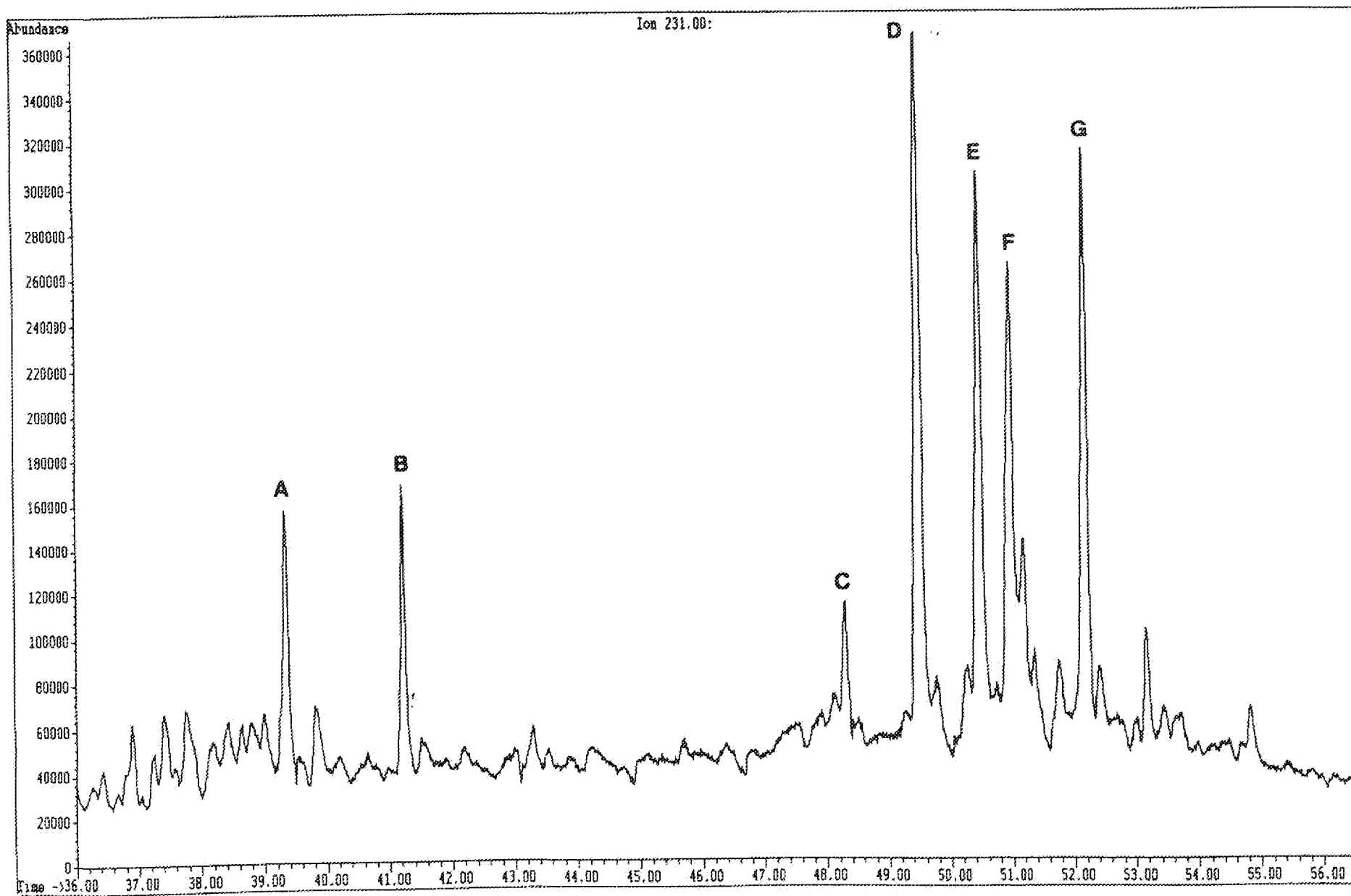
File: D:\CHEMPC\DATA\5301002.D
Operator:
Date Acquired:
Method File Name: BTOMY.M
Sample Name: 4069-002A
Misc Info:
Bottle Number: 53

Figure: A3.2k
Well: 34/7-13
Depth: 2501.60m



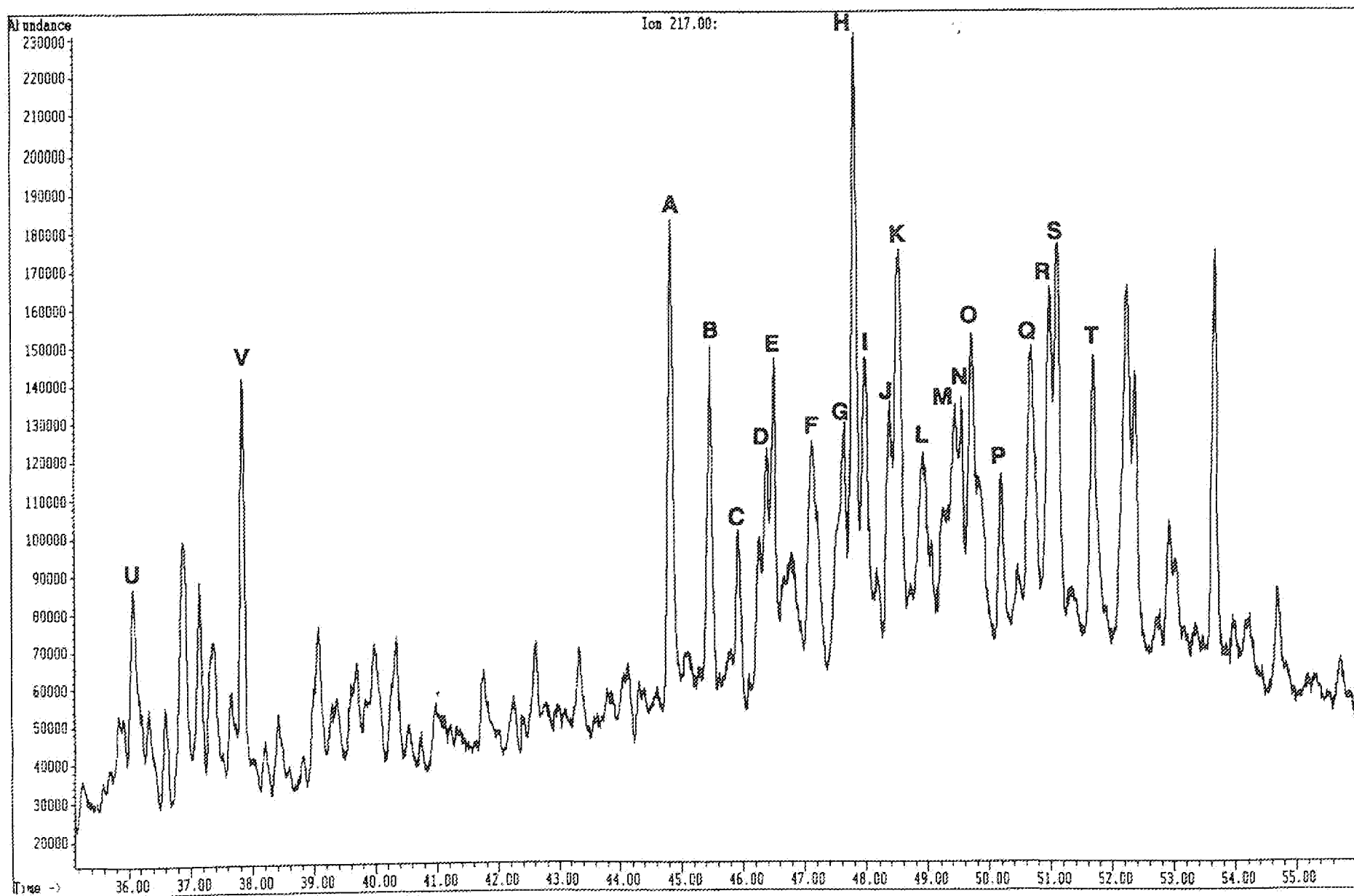
File: D:\CHEMPC\DATA\5301002.D
Operator:
Date Acquired:
Method File Name: BIOMY.M
Sample Name: 4069-002A
Misc Info:
Bottle Number: 53

Figure: A3.2I
Well: 34/7-13
Depth: 2501.60m



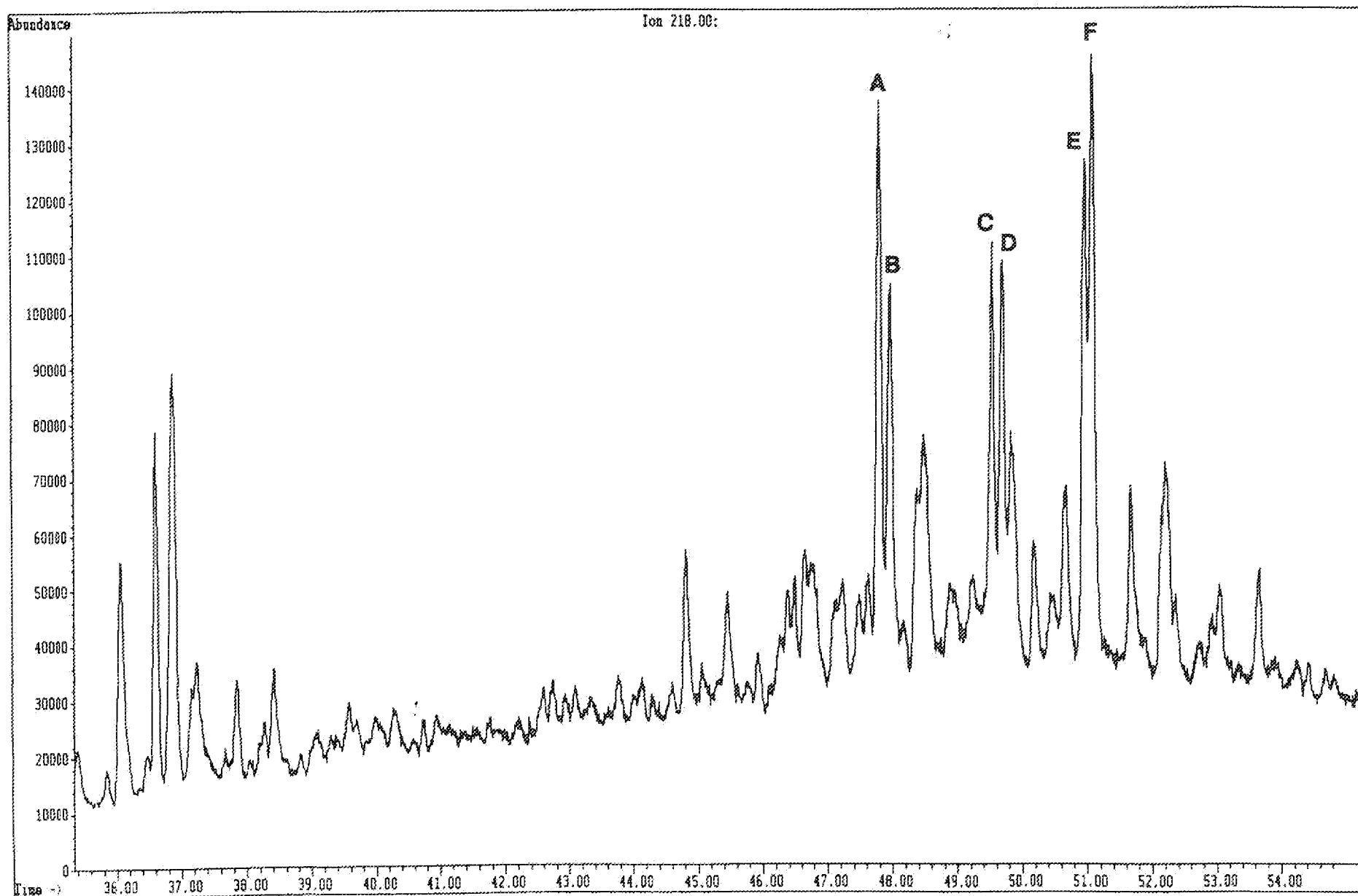
File: D:\CHEMPC\DATA\6701003.D
Operator:
Date Acquired:
Method File Name: BIOM.M
Sample Name: 4069-003A
Misc info:
Bottle Number: 67

Figure: A3.3a
Well: 34/7-13
Depth: 2504.75m



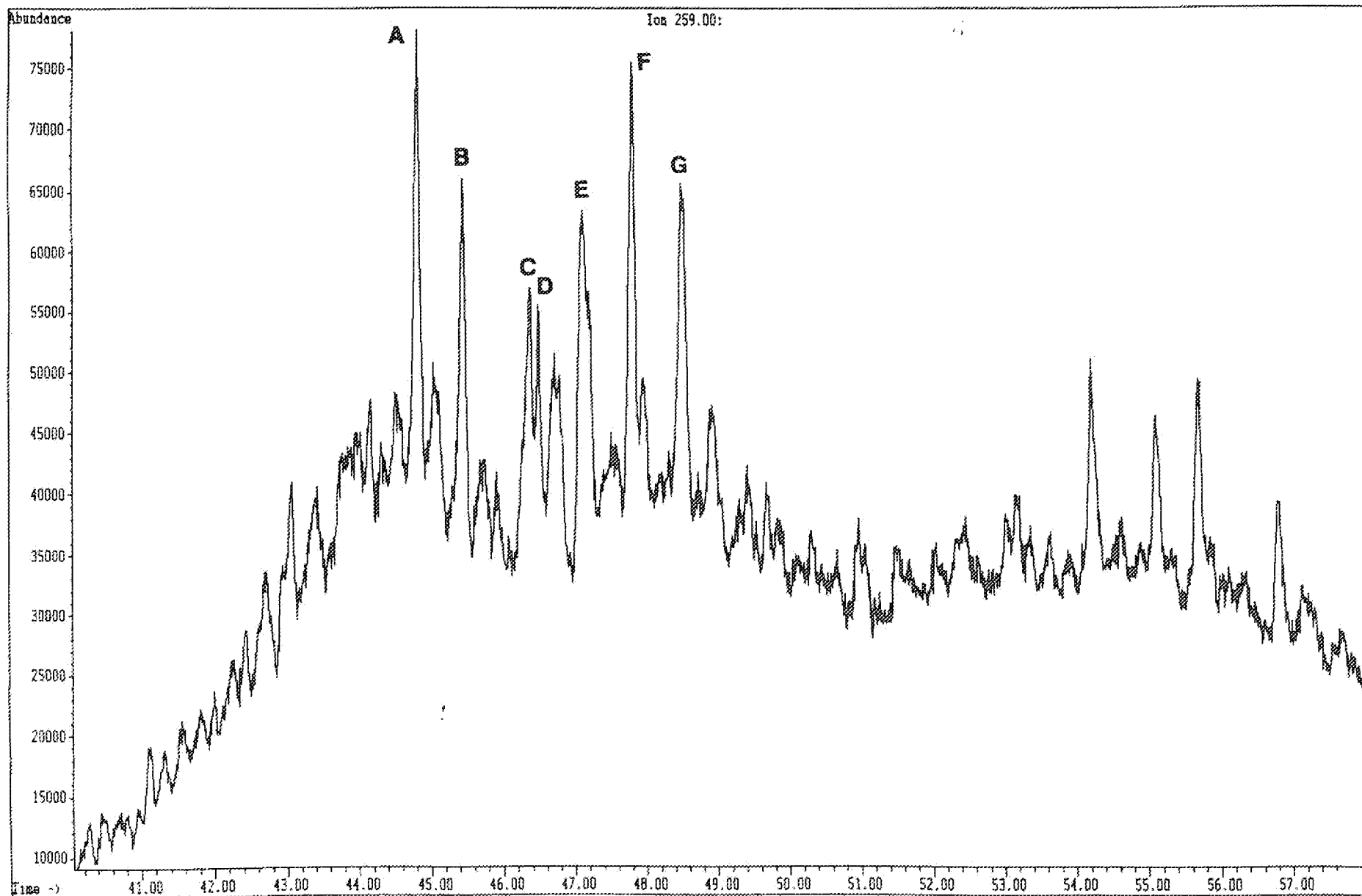
File: D:\CHEMPC\DATA\6701003.D
Operator:
Date Acquired:
Method File Name: BION.M
Sample Name: 4069-003A
Misc Info:
Bottle Number: 67

Figure: A3.3b
Well: 34/7-13
Depth: 2504.75m



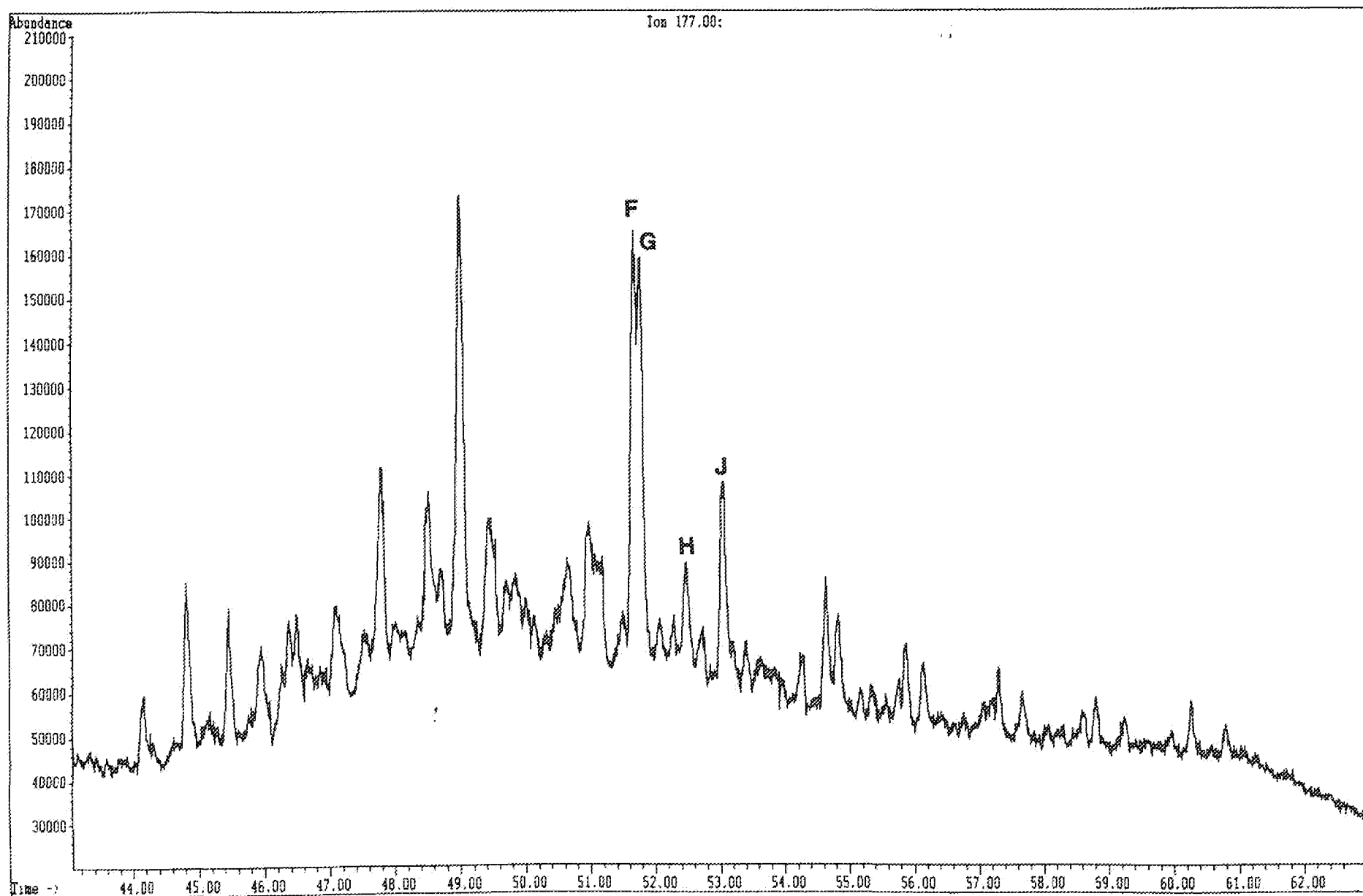
File: D:\CHEMPC\DATA\6701003.D
Operator:
Date Acquired:
Method File Name: BIOM.W
Sample Name: 4069-003A
Misc Info:
Bottle Number: 67

Figure: A3.3c
Well: 34/7-13
Depth: 2504.75m



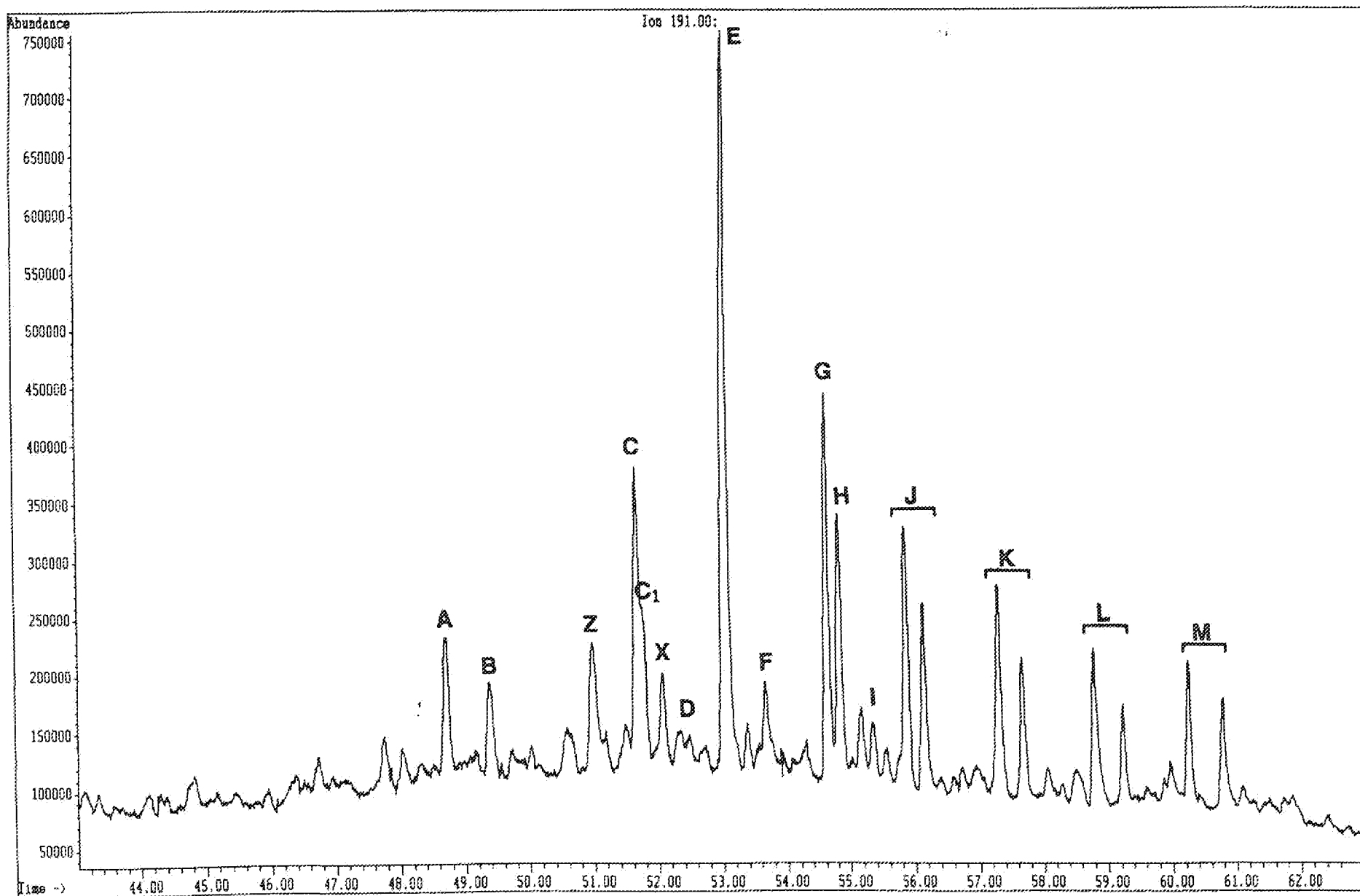
File: D:\CHEMPC\DATA\6701003.D
Operator:
Date Acquired:
Method File Name: BIOM.M
Sample Name: 4069-003A
Misc Info:
Bottle Number: 67

Figure: A3.3d
Well: 34/7-13
Depth: 2504.75m



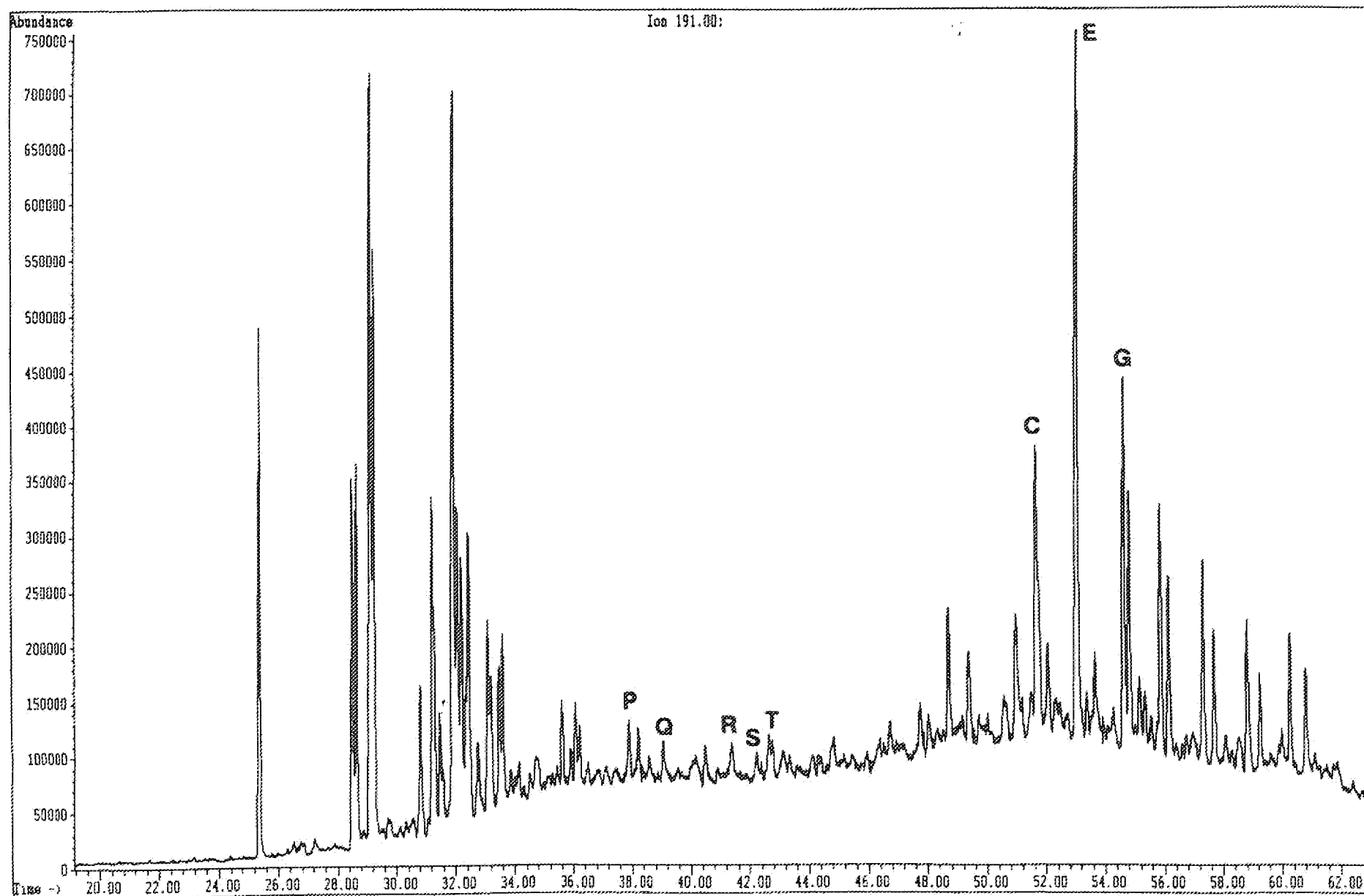
File: D:\CHEMPC\DATA\6701003.D
Operator:
Date Acquired:
Method File Name: B10M.M
Sample Name: 4069-003A
Misc Info:
Bottle Number: 67

Figure: A3.3e
Well: 34/7-13
Depth: 2504.75m



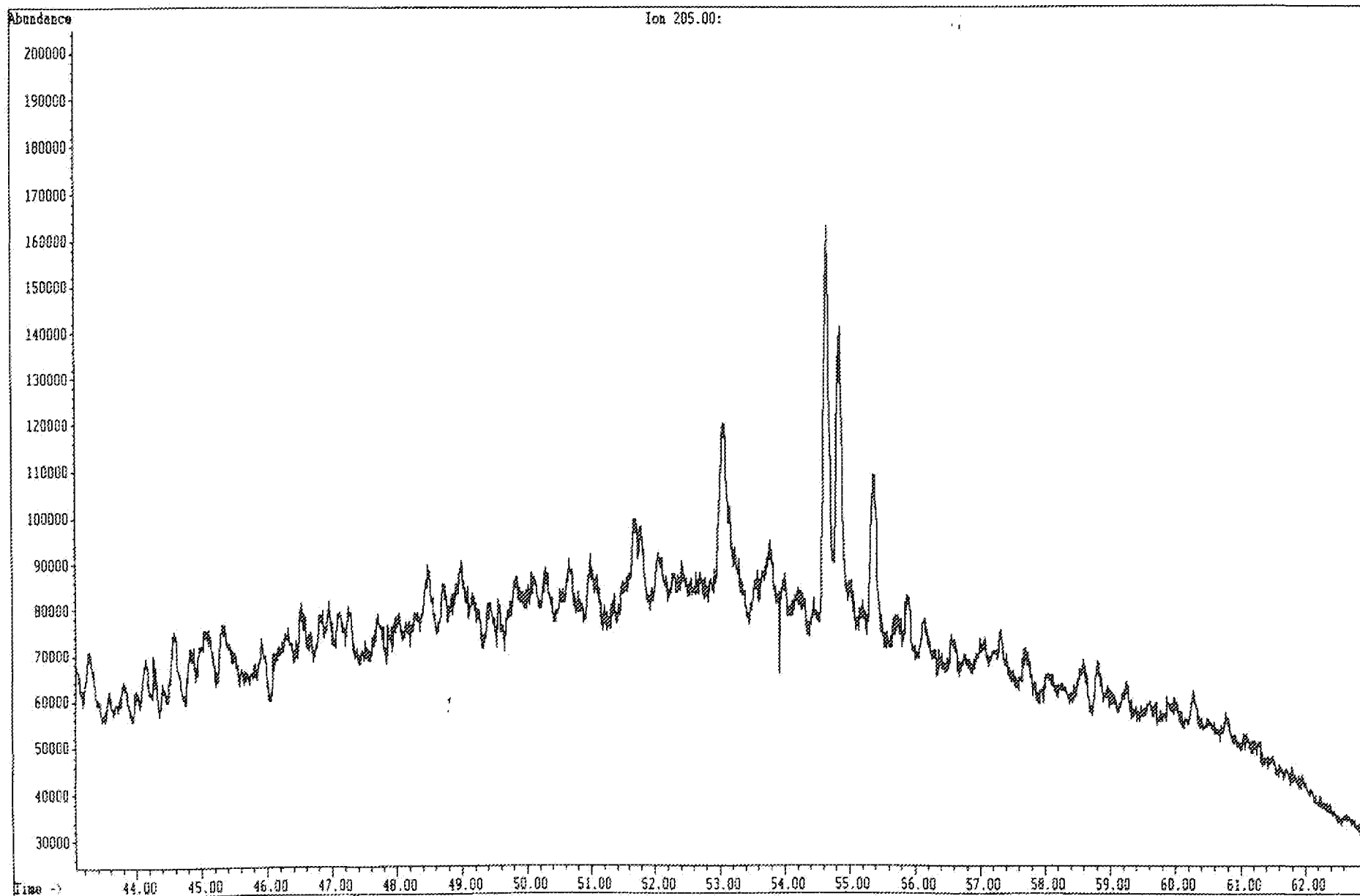
File: D:\CHEMPC\DATA\6701003.D
Operator:
Date Acquired:
Method File Name: BIOM.M
Sample Name: 4069-003A
Misc Info:
Bottle Number: 67

Figure: A3.3f
Well: 34/7-13
Depth: 2504.75m



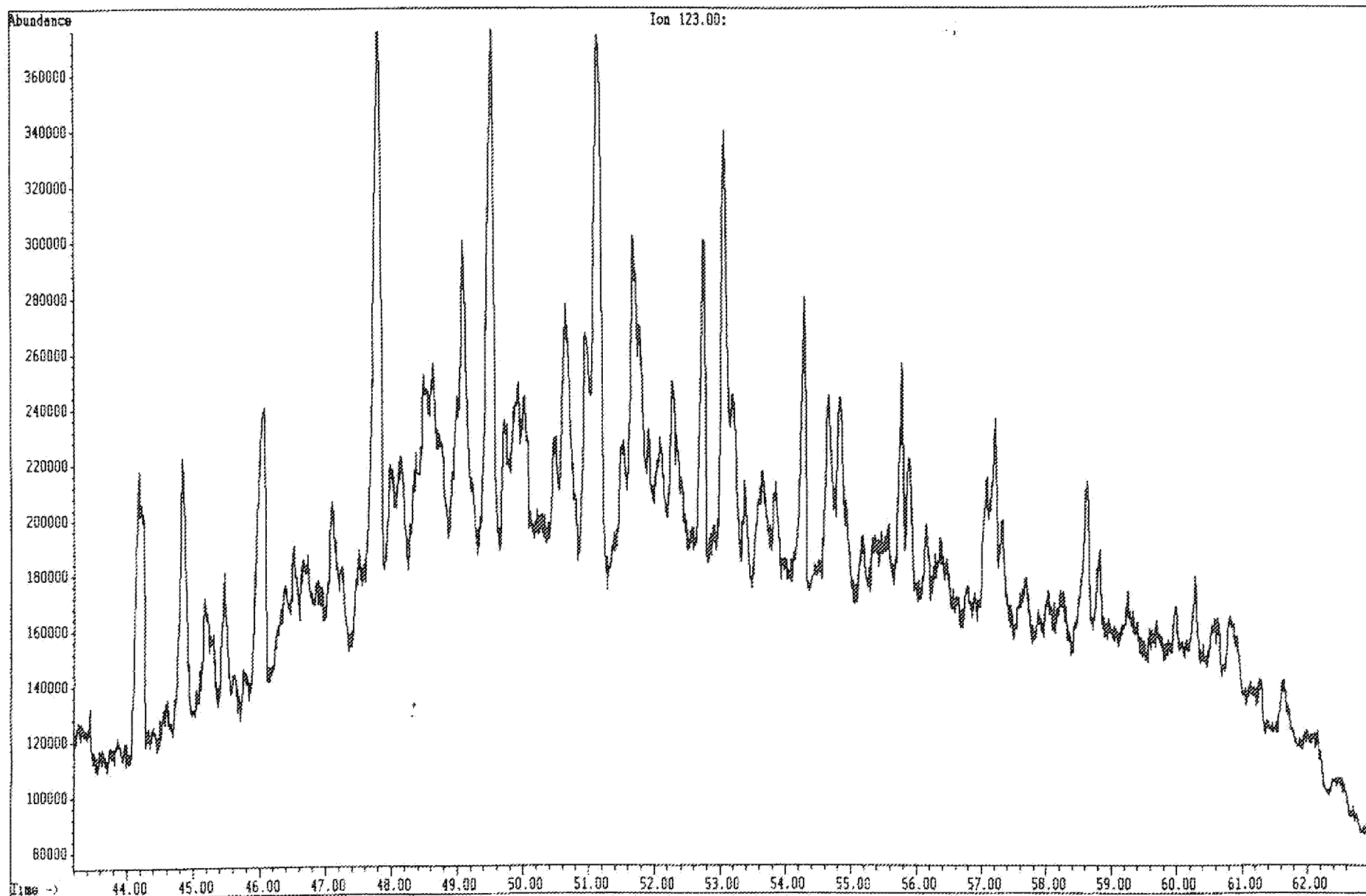
File: D:\CHEMPC\DATA\6701003.D
Operator:
Date Acquired:
Method File Name: BIOM.W
Sample Name: 4069-003A
Misc Info:
Bottle Number: 67

Figure: A3.3g
Well: 34/7-13
Depth: 2504.75m



File: D:\CHEMPC\DATA\6701003.D
Operator:
Date Acquired:
Method File Name: BIOM.M
Sample Name: 4069-003A
Misc Info:
Bottle Number: 67

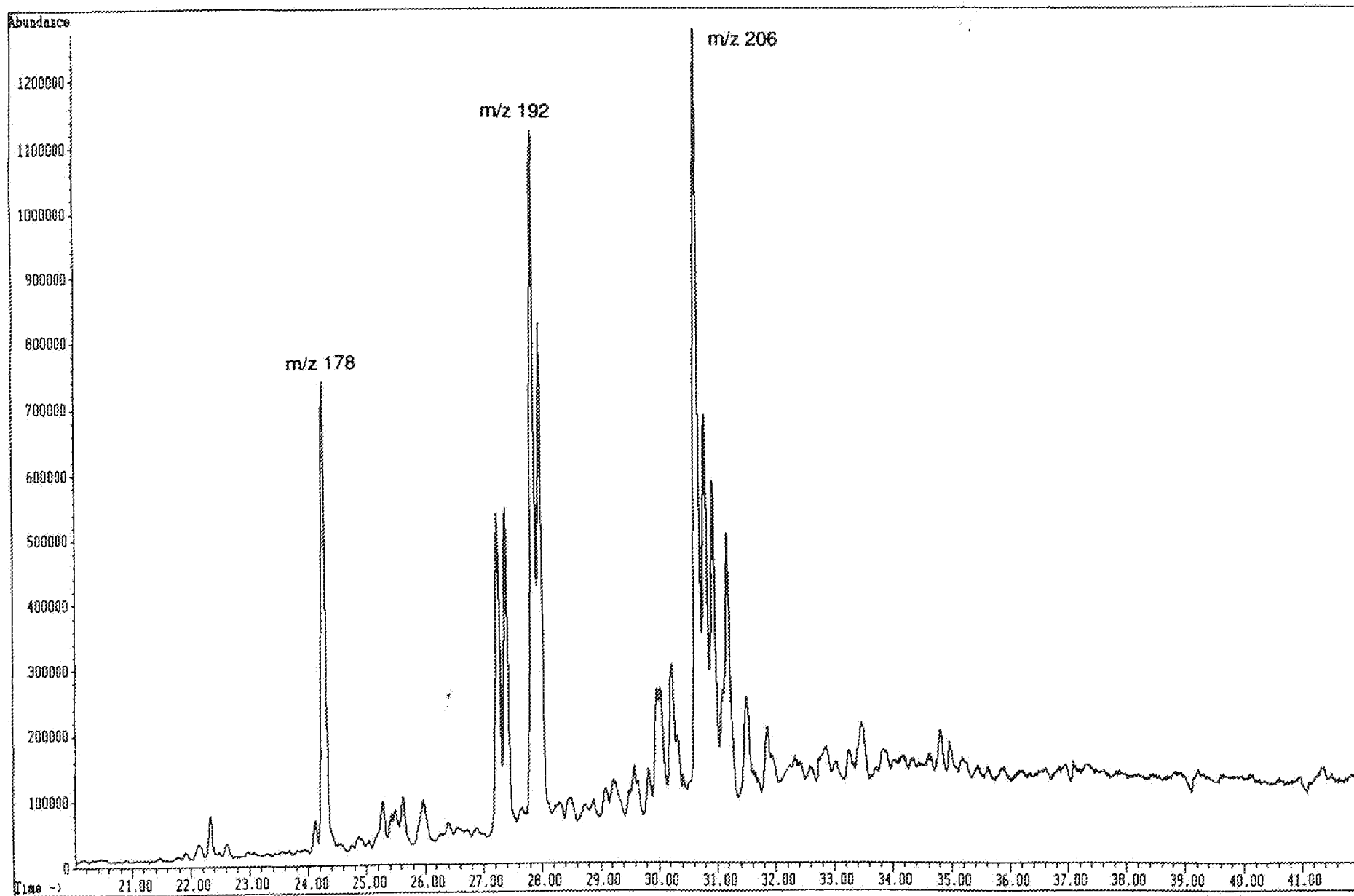
Figure: A3.3h
Well: 34/7-13
Depth: 2504.75m



File: D:\CHEMPC\DATA\5401003.D
Operator:
Date Acquired:
Method File Name: B10MY.M
Sample Name: 4069-003A
Misc Info:
Bottle Number: 54

Phenanthrene

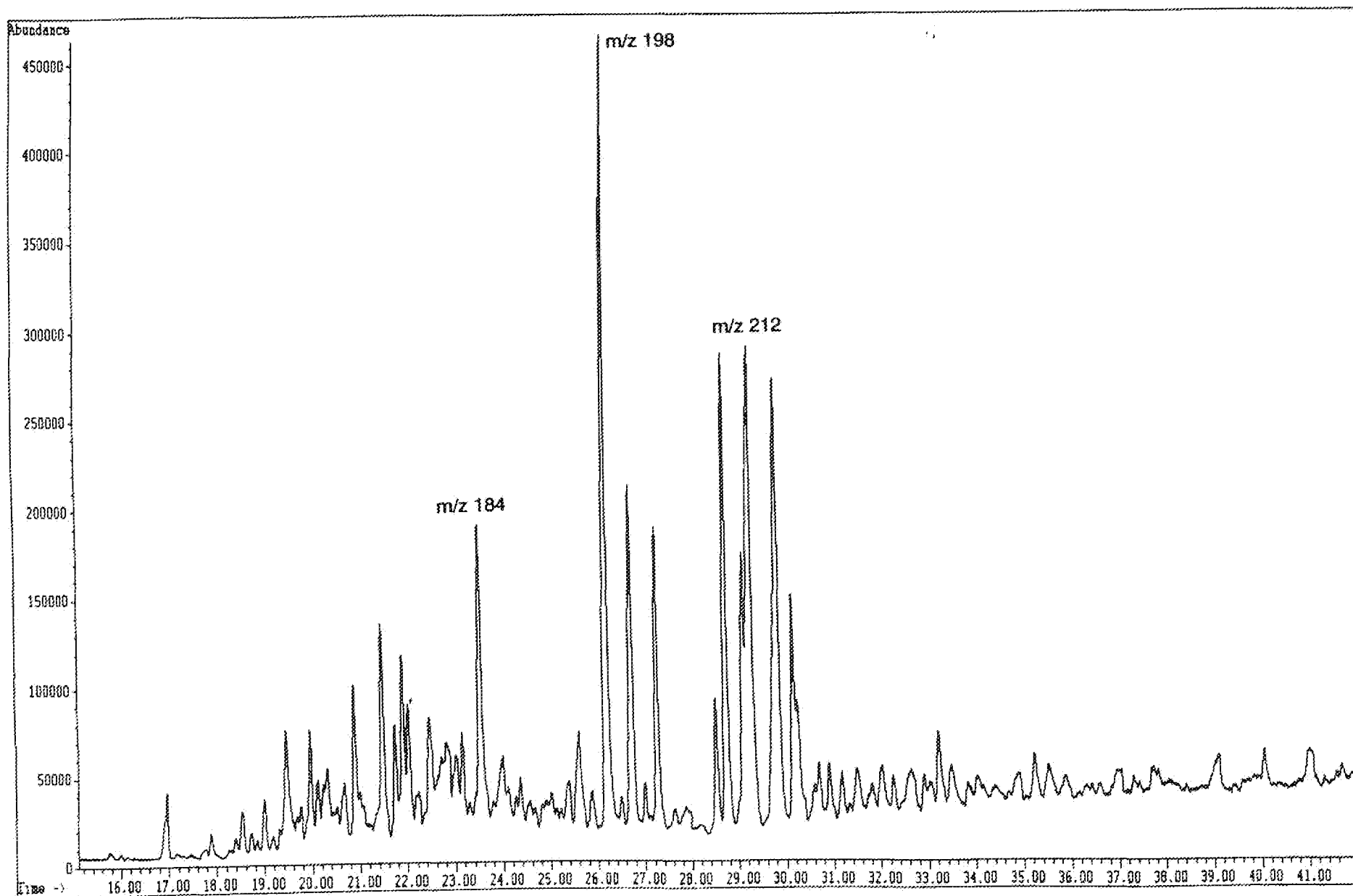
Figure: A3.3i
Well: 34/7-13
Depth: 2504.75m



File: D:\CHEMPC\DATA\5401003.D
Operator:
Date Acquired:
Method File Name: BIOMY.M
Sample Name: 4069-003A
Misc Info:
Bottle Number: 54

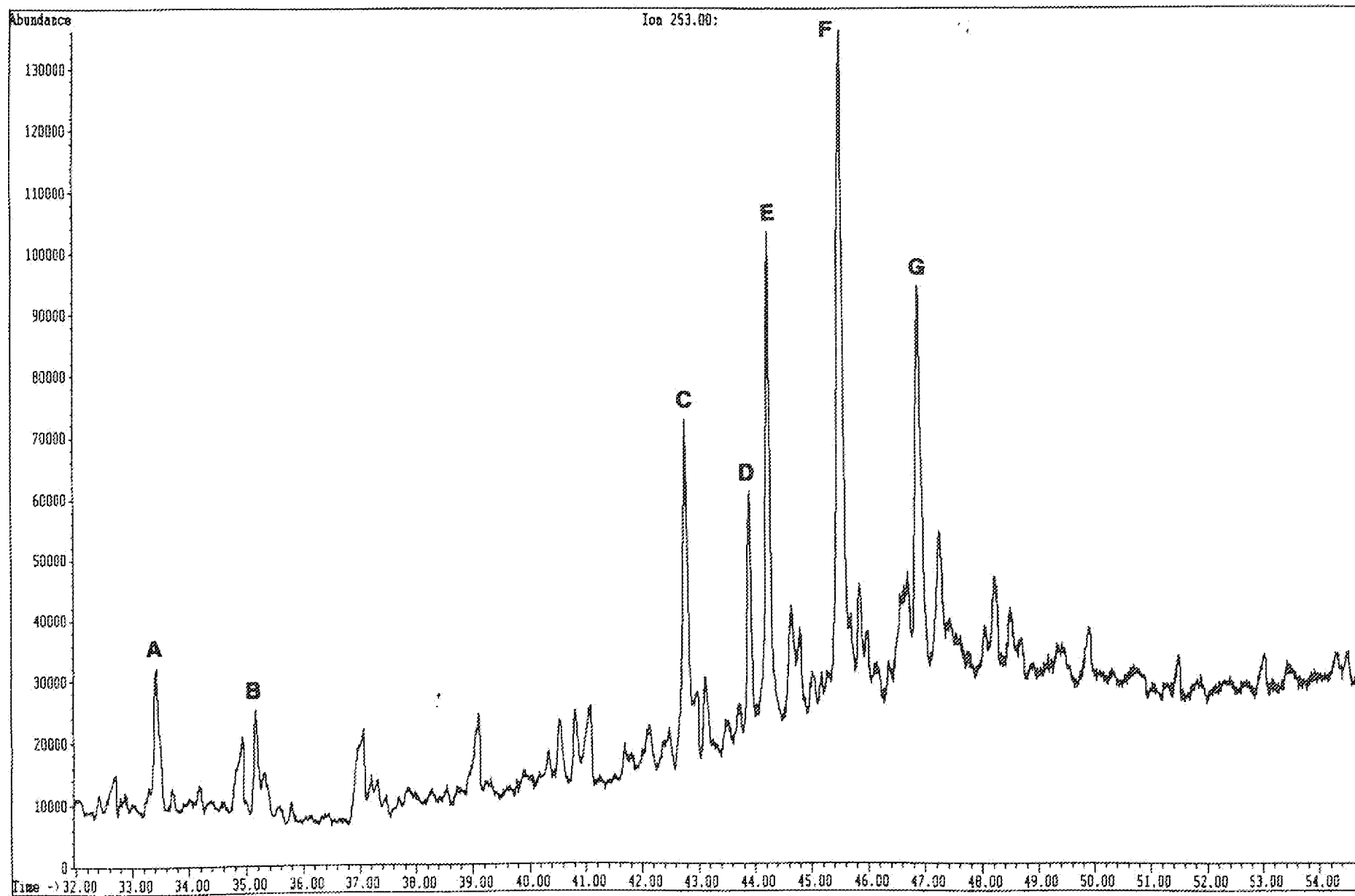
Dibenzothiophenes

Figure: A3.3j
Well: 34/7-13
Depth: 2504.75m



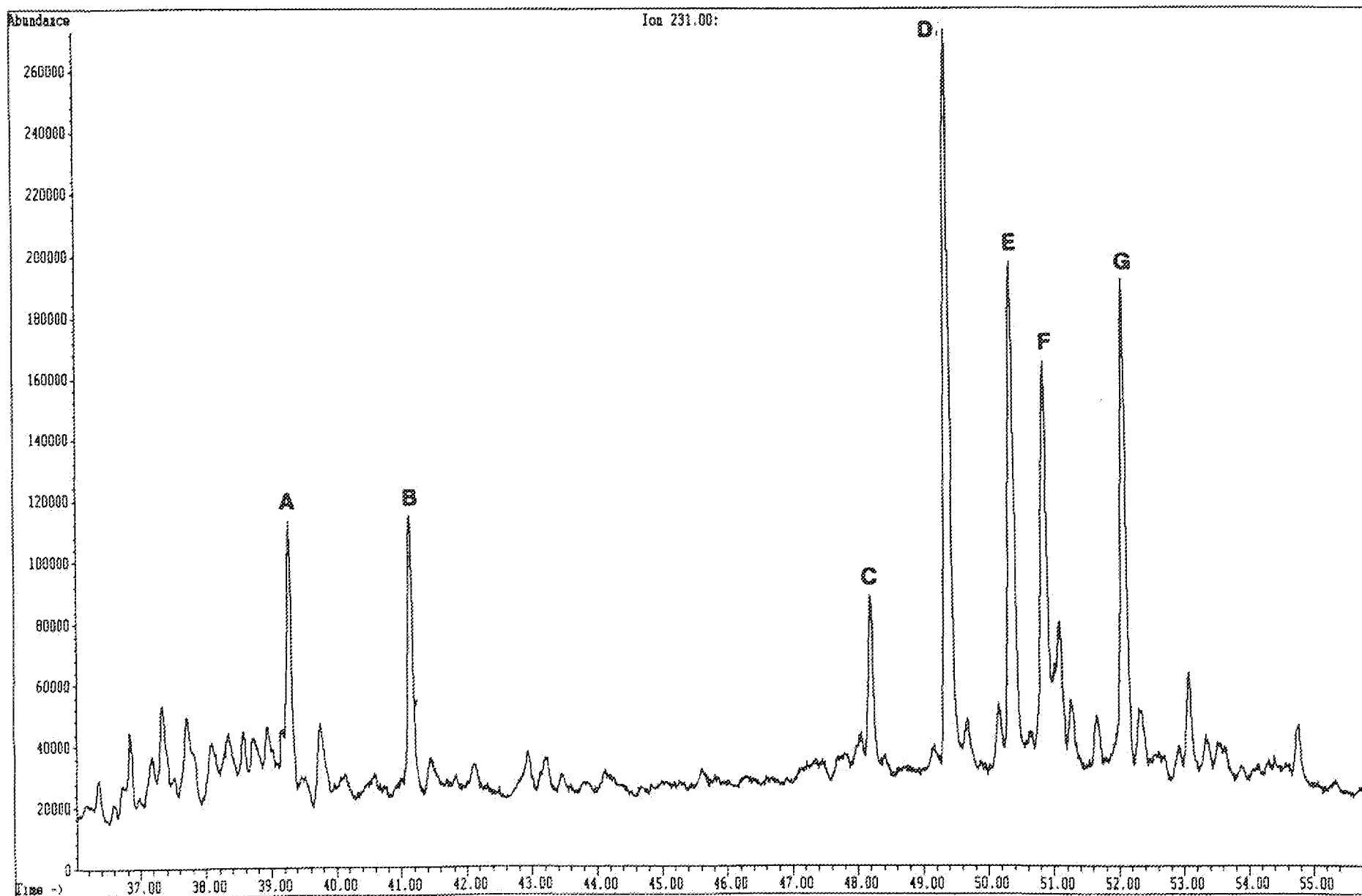
File: D:\CHEMPC\DATA\5401003.D
Operator:
Date Acquired:
Method File Name: BICMY.M
Sample Name: 4069-003A
Misc Info:
Bottle Number: 54

Figure: A3.3k
Well: 34/7-13
Depth: 2504.75m



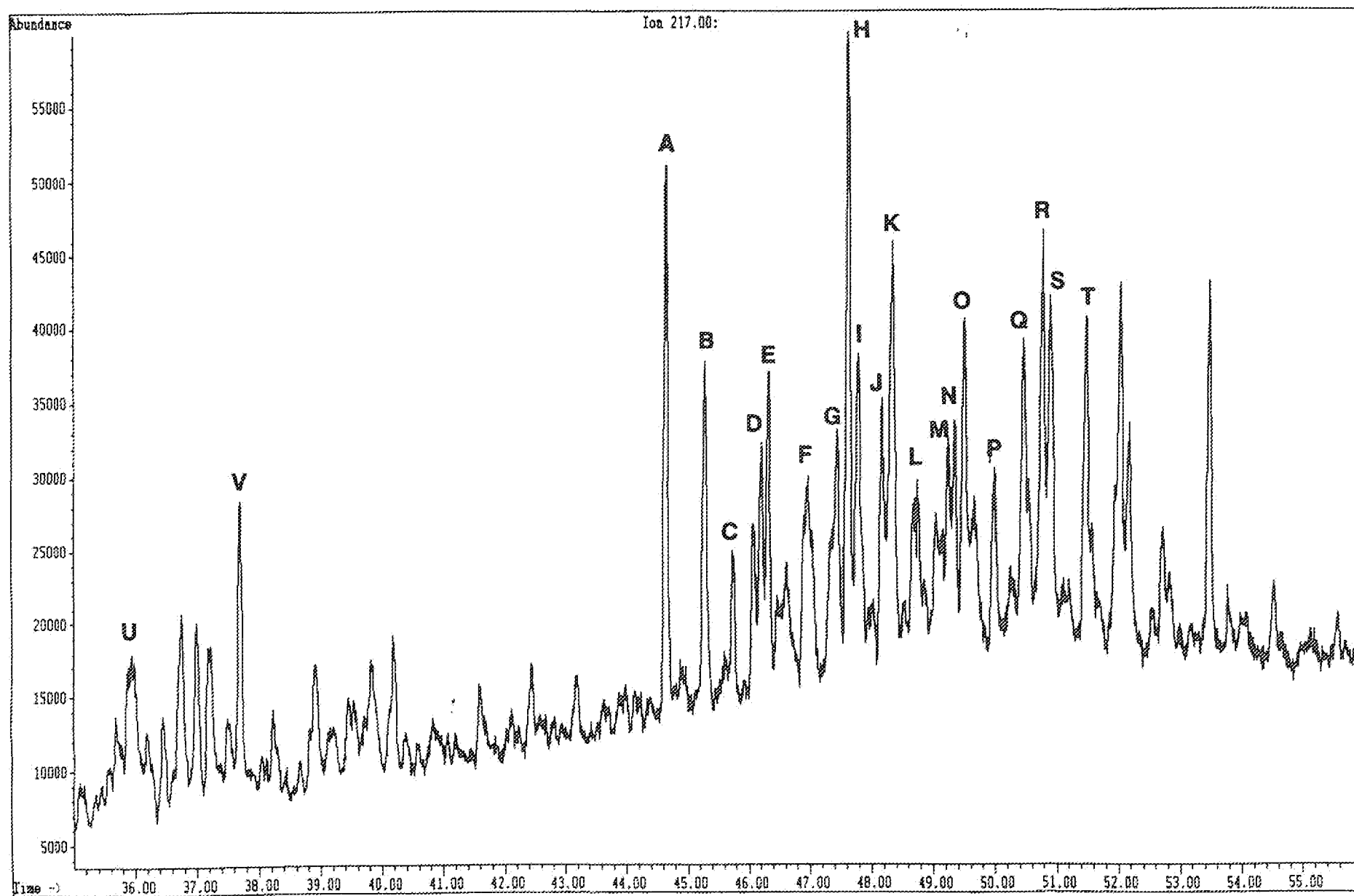
File: D:\CHEMPC\DATA\5401003.D
Operator:
Date Acquired:
Method File Name: BICOMY.M
Sample Name: 4069-003A
Misc Info:
Bottle Number: 54

Figure: A3.3I
Well: 34/7-13
Depth: 2504.75m



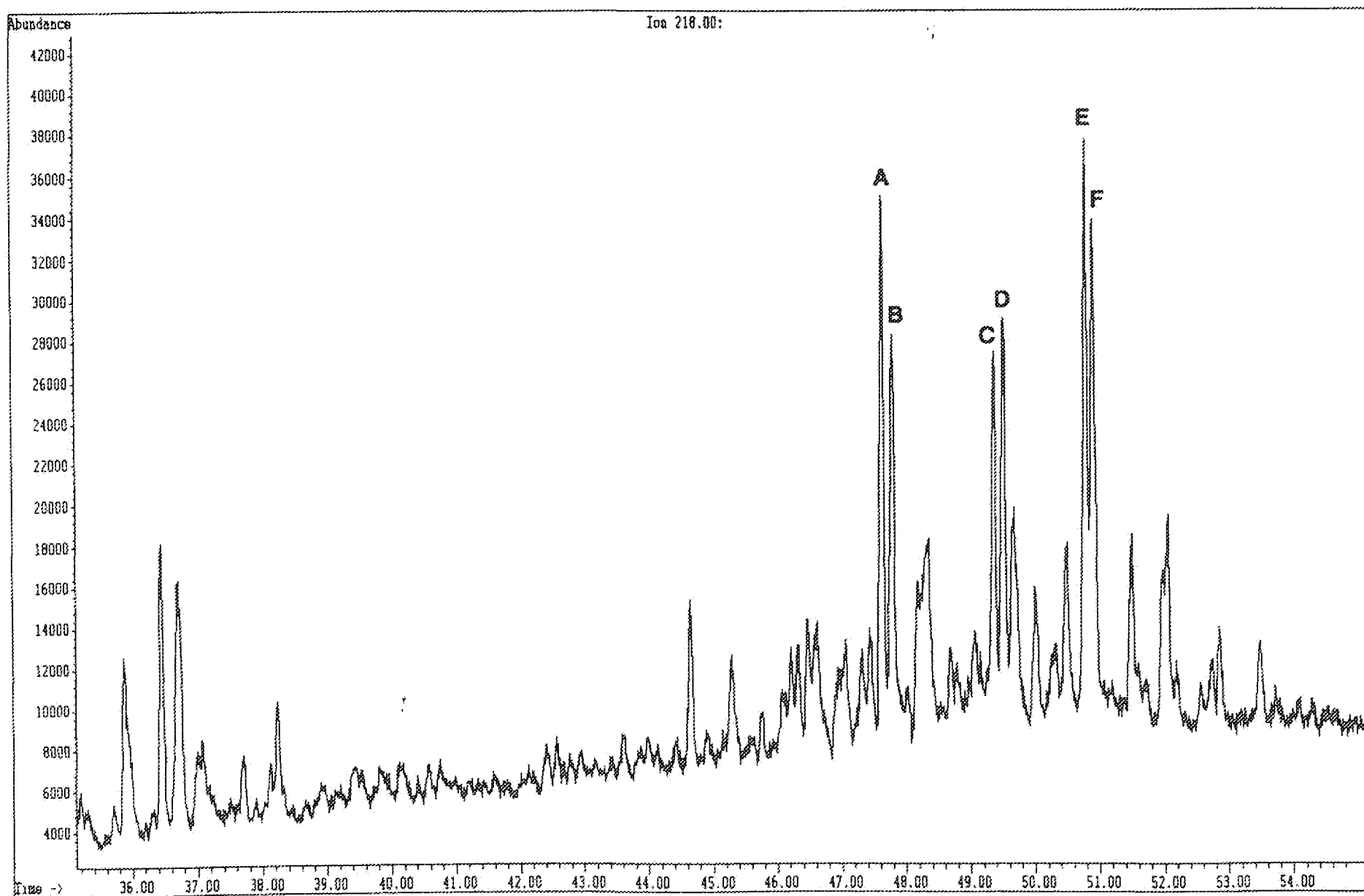
File: D:\CHEMPC\DATA\6801084.D
Operator:
Date Acquired:
Method File Name: B10W.M
Sample Name: 4069-004A
Misc Info:
Bottle Number: 68

Figure: A3.4a
Well: 34/7-13
Depth: 2506.80m



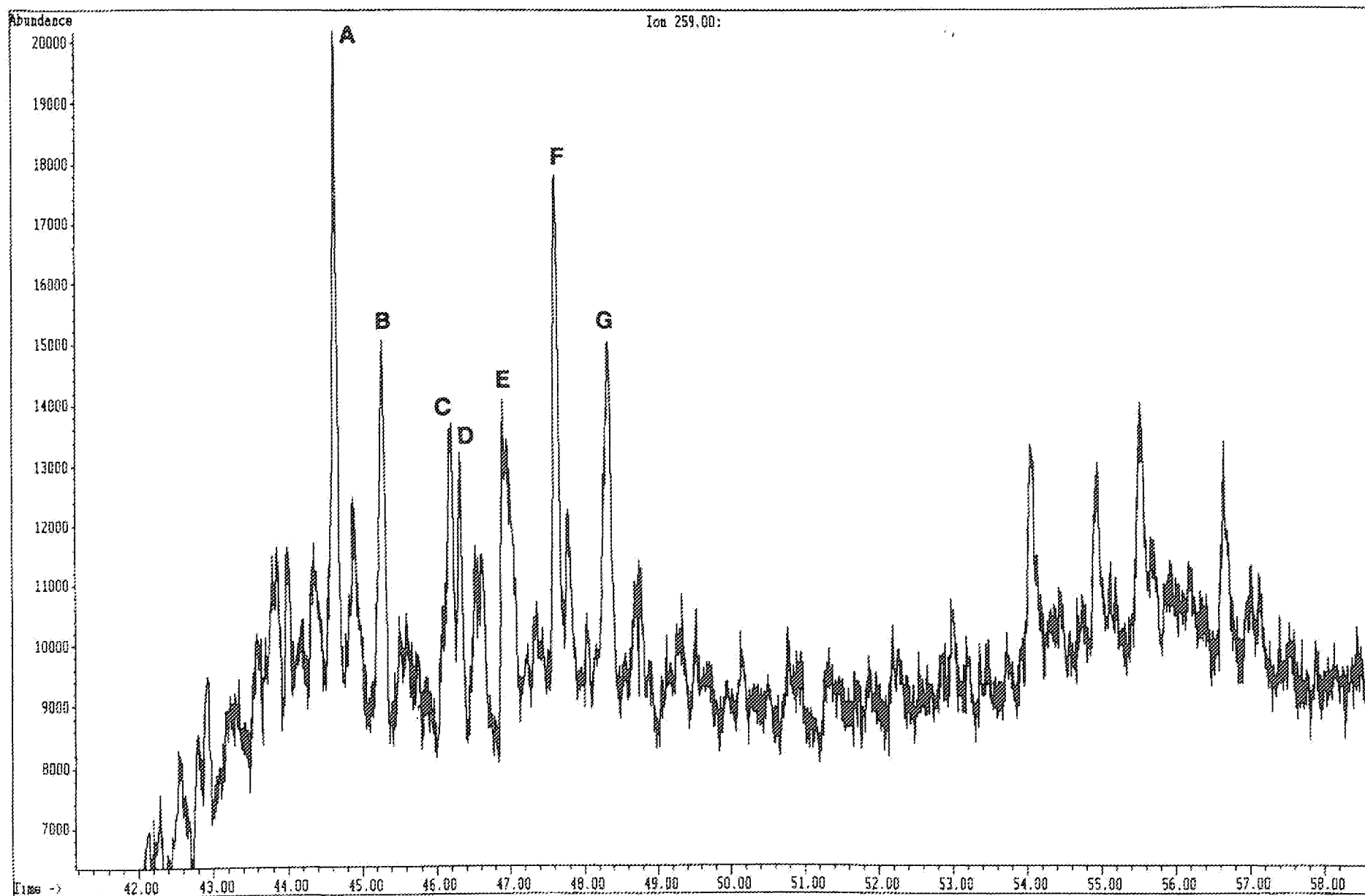
File: D:\CHEMPC\DATA\6801004.D
Operator:
Date Acquired:
Method File Name: B10M.M
Sample Name: 4069-004A
Misc Info:
Bottle Number: 68

Figure: A3.4b
Well: 34/7-13
Depth: 2506.80m



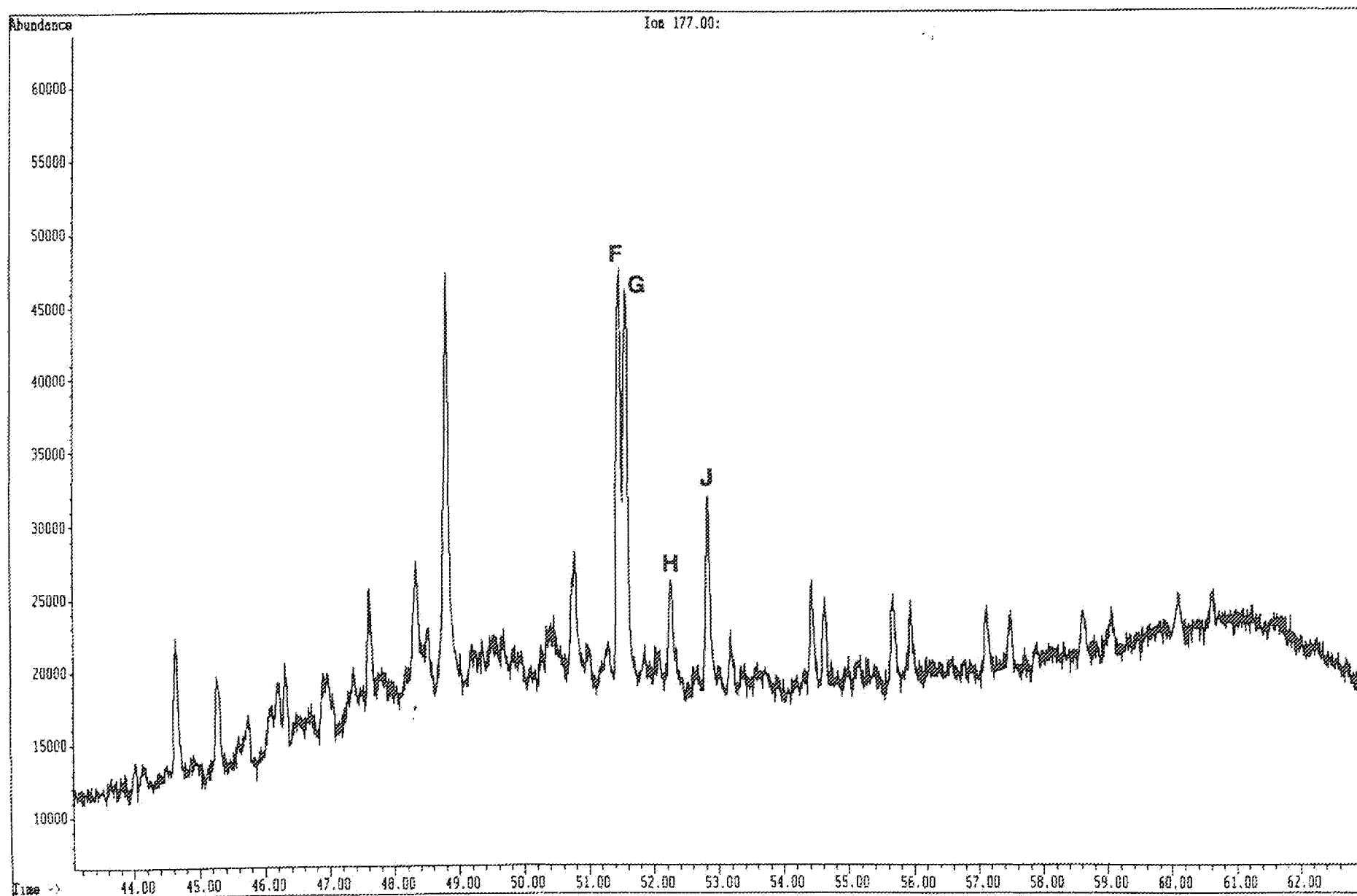
File: D:\CHEMPC\DATA\6801004.D
Operator:
Date Acquired:
Method File Name: BIOM.M
Sample Name: 4069-004A
Misc Info:
Bottle Number: 68

Figure: A3.4c
Well: 34/7-13
Depth: 2506.80m



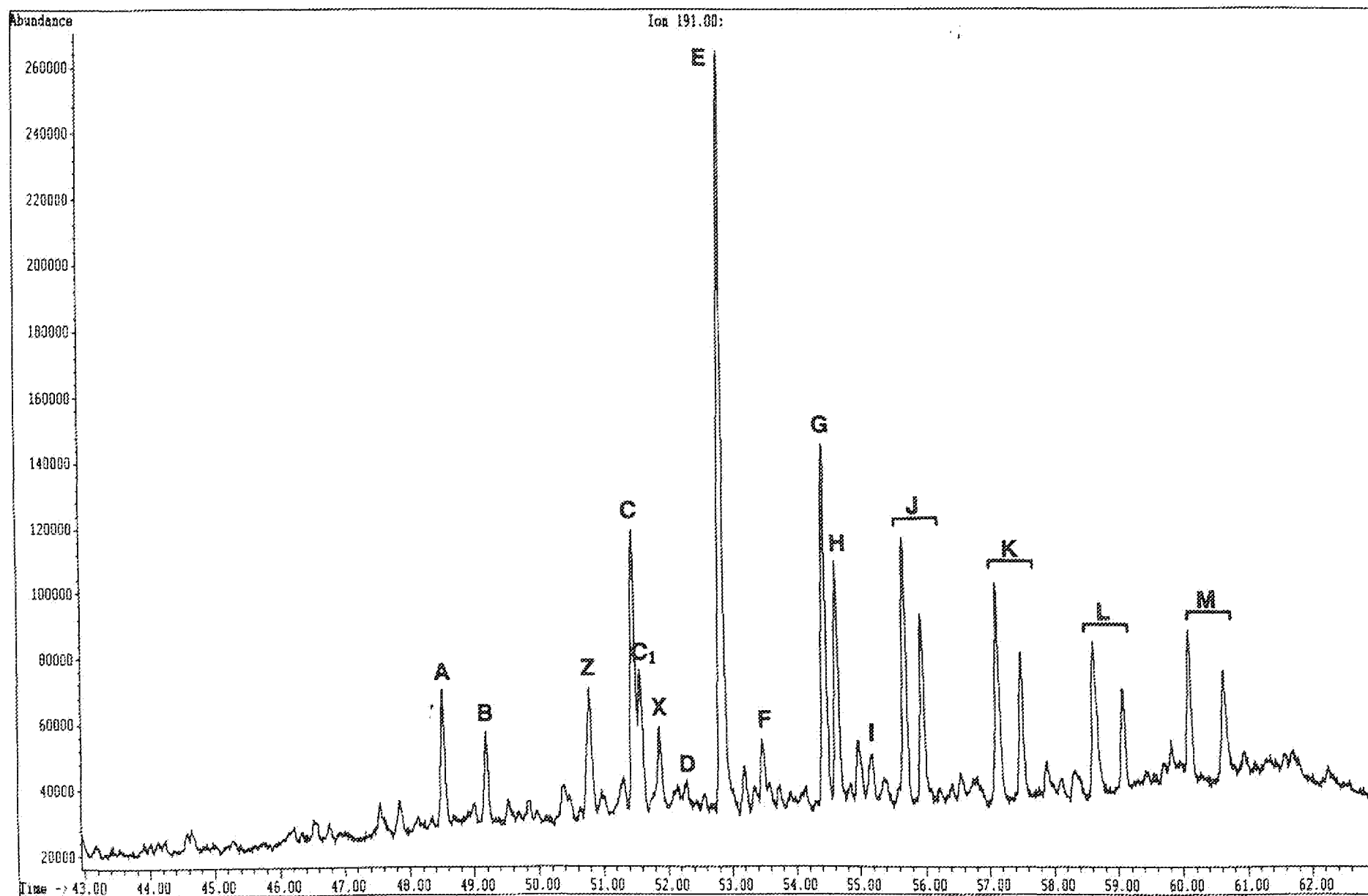
File: D:\CHEMPC\DATA\6801004.D
Operator:
Date Acquired:
Method File Name: B10M.W
Sample Name: 4069-004A
Misc Info:
Bottle Number: 68

Figure: A3.4d
Well: 34/7-13
Depth: 2506.80m



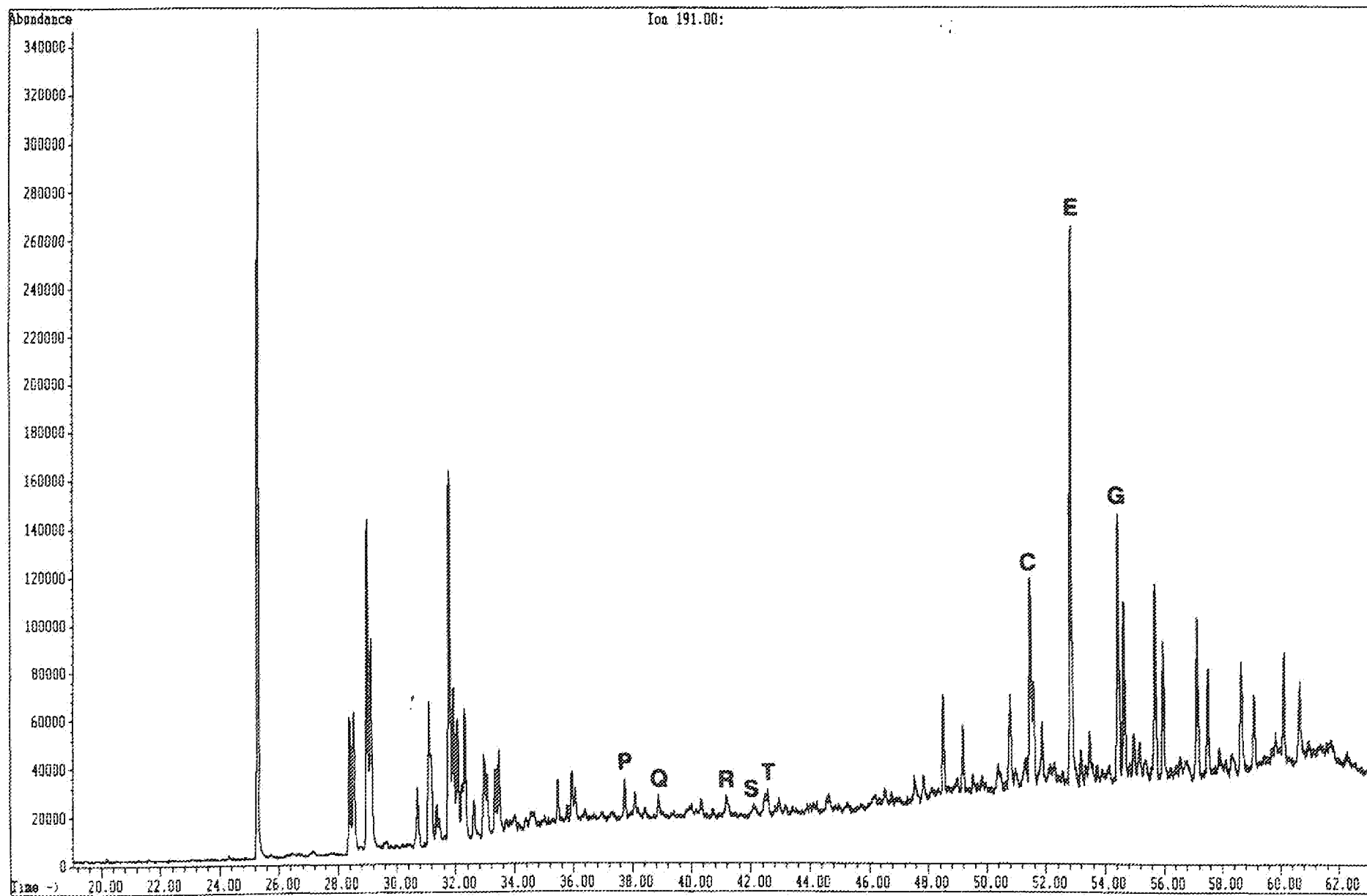
File: D:\CHEMPC\DATA\6801004.D
Operator:
Date Acquired:
Method File Name: BIOM.M
Sample Name: 4069-004A
Misc Info:
Bottle Number: 68

Figure: A3.4e
Well: 34/7-13
Depth: 2506.80m



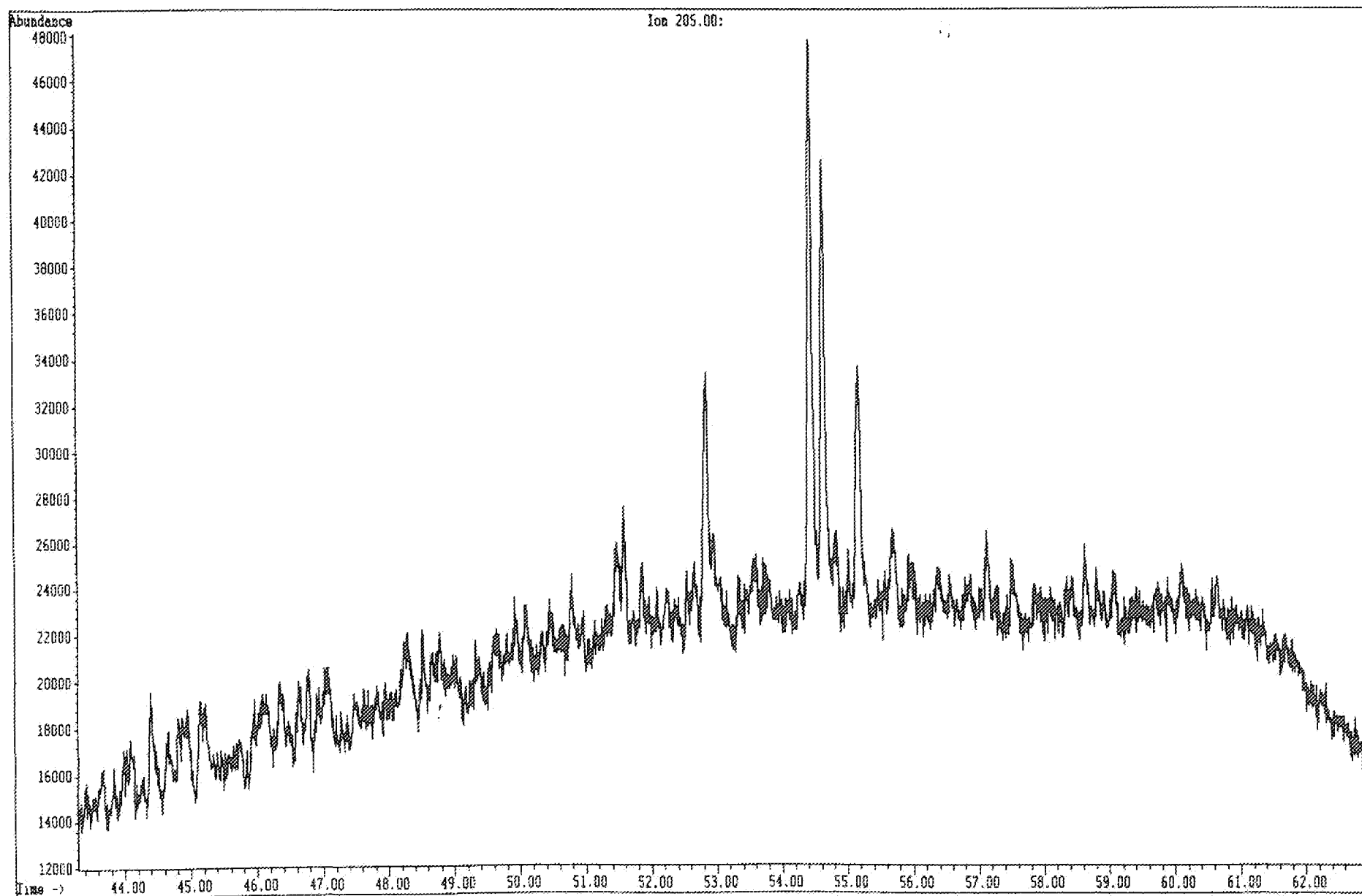
File: D:\CHEMPC\DATA\6801004.D
Operator:
Date Acquired:
Method File Name: B10M.M
Sample Name: 4069-004A
Misc Info:
Bottle Number: 68

Figure: A3.4f
Well: 34/7-13
Depth: 2506.80m



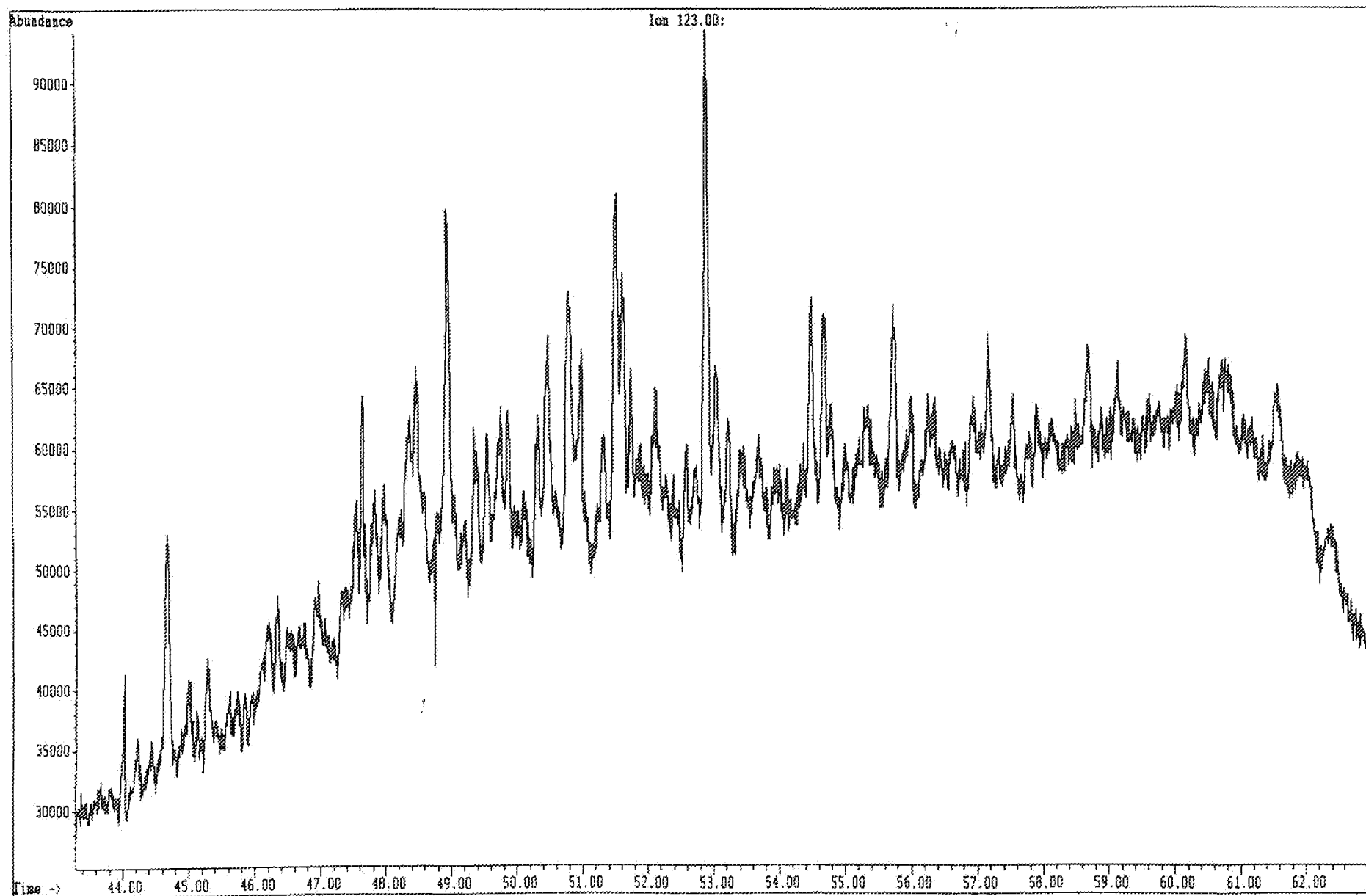
File: D:\CHEMPC\DATA\6801004.D
Operator:
Date Acquired:
Method File Name: BIOM.M
Sample Name: 4069-004A
Misc Info:
Bottle Number: 68

Figure: A3.4g
Well: 34/7-13
Depth: 2506.80m



File: D:\CHEMPC\DATA\6801004.D
Operator:
Date Acquired:
Method File Name: BIOM.M
Sample Name: 4069-084A
Misc Info:
Bottle Number: 68

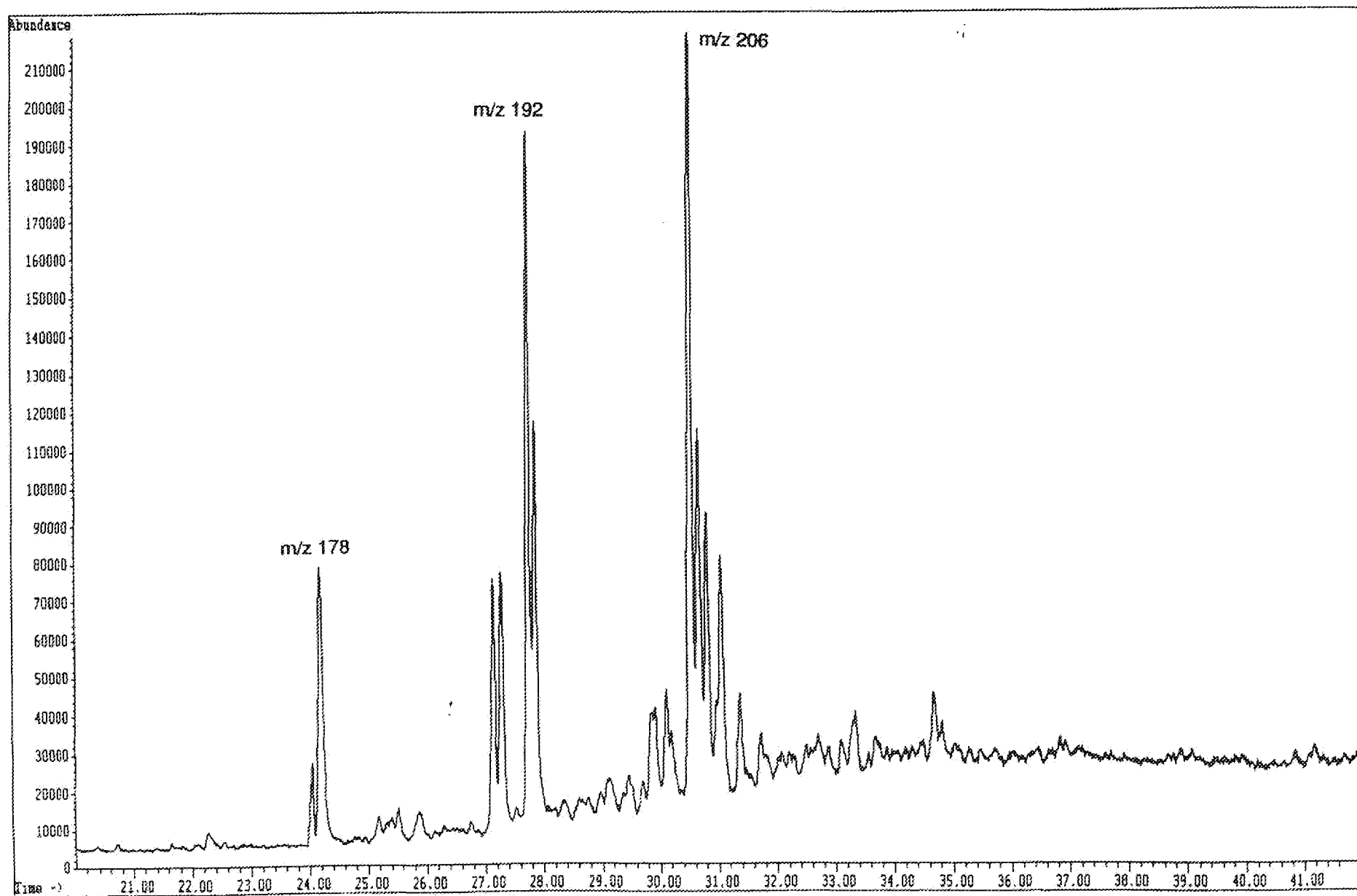
Figure: A3.4h
Well: 34/7-13
Depth: 2506.80m



File: D:\CHEMPC\DATA\5501004.D
Operator:
Date Acquired:
Method File Name: BLOWY.M
Sample Name: 4069-004A
Misc Info:
Bottle Number: 55

Phenanthrenes

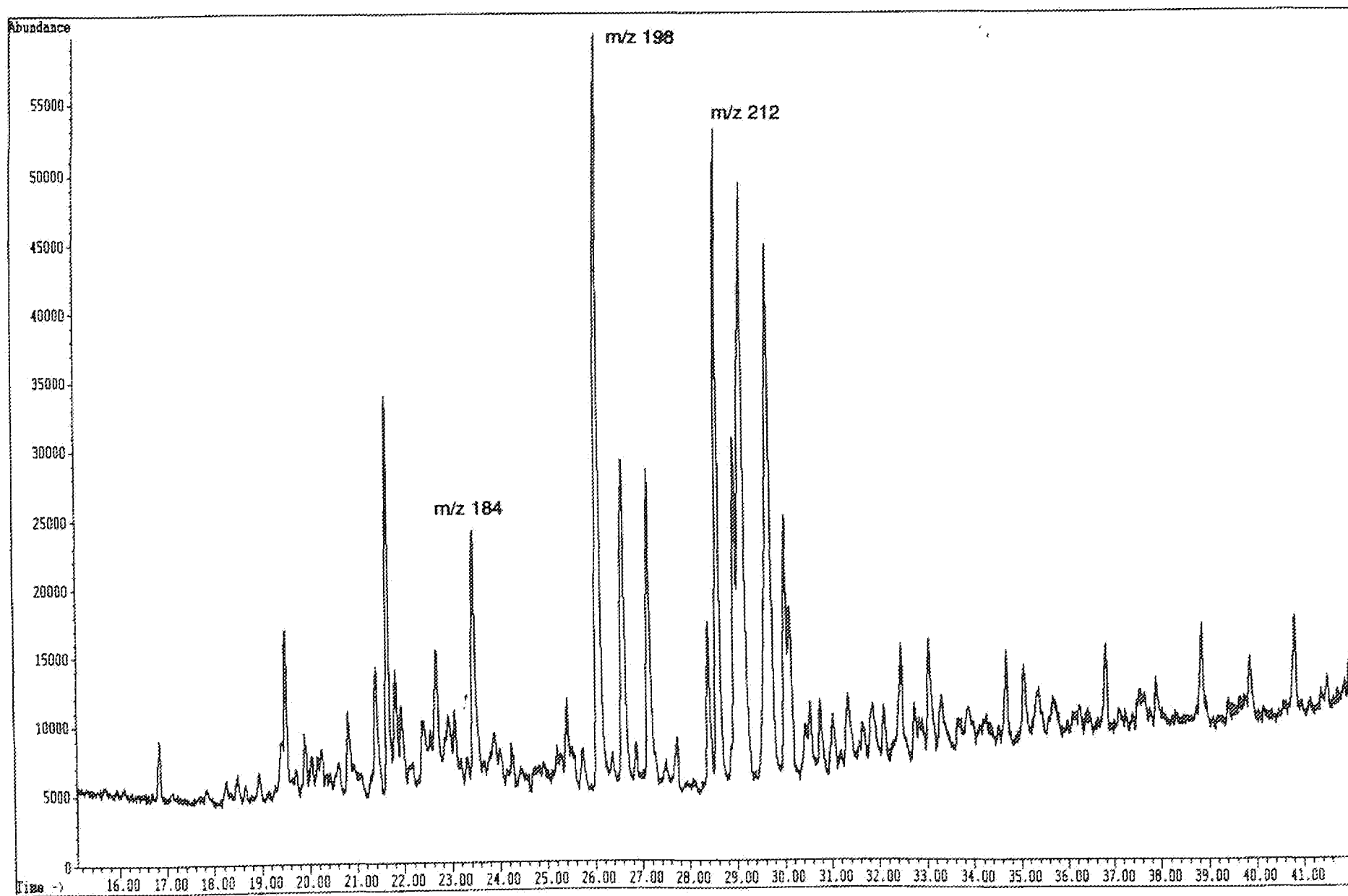
Figure: A3.4i
Well: 34/7-13
Depth: 2506.80m



File: D:\CHEMPC\DATA\5501004.D
Operator:
Date Acquired:
Method File Name: B10MY.M
Sample Name: 4069-004A
Misc Info:
Bottle Number: 55

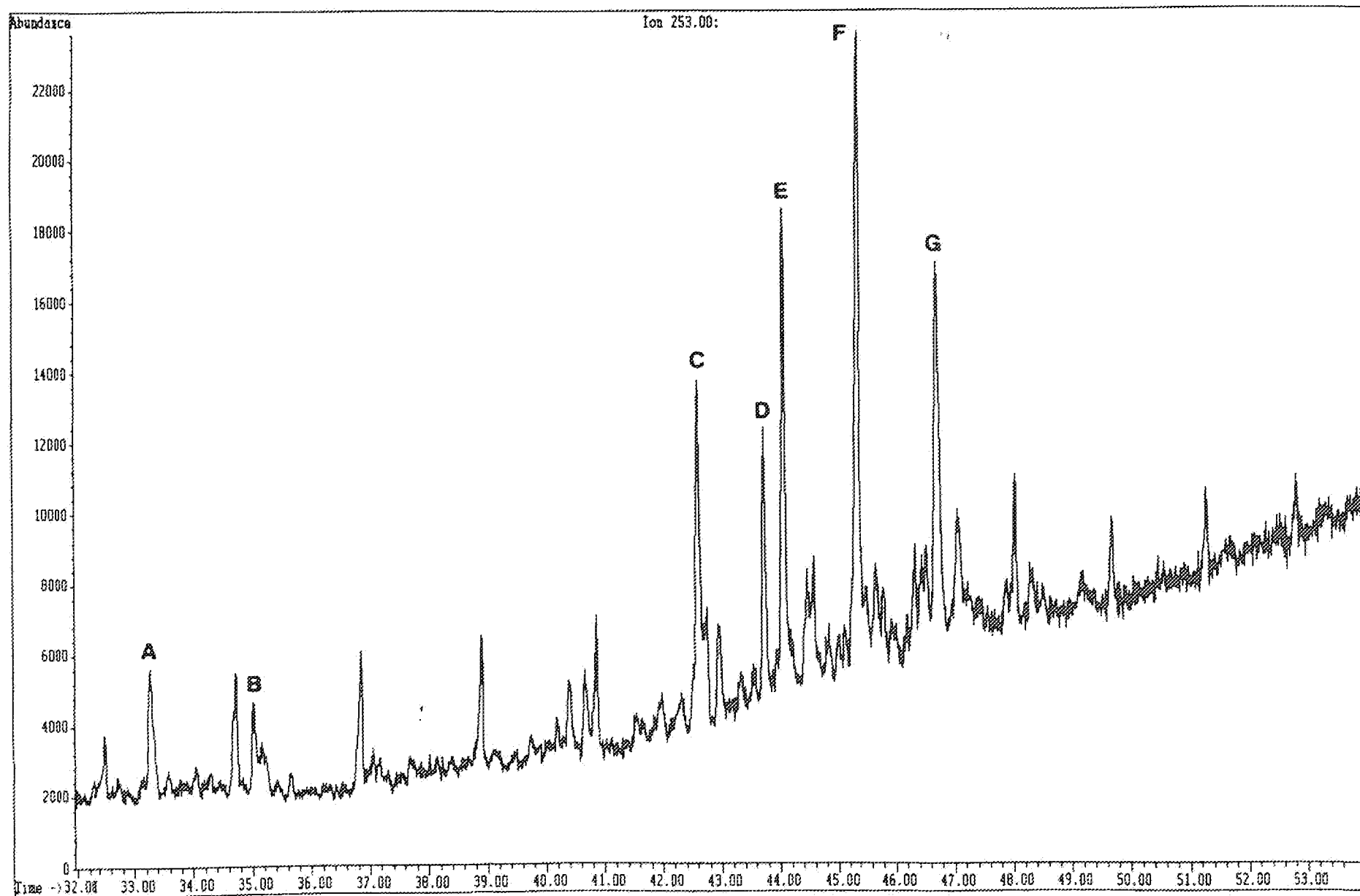
Dibenzothiophenes

Figure: A3.4j
Well: 34/7-13
Depth: 2506.80m



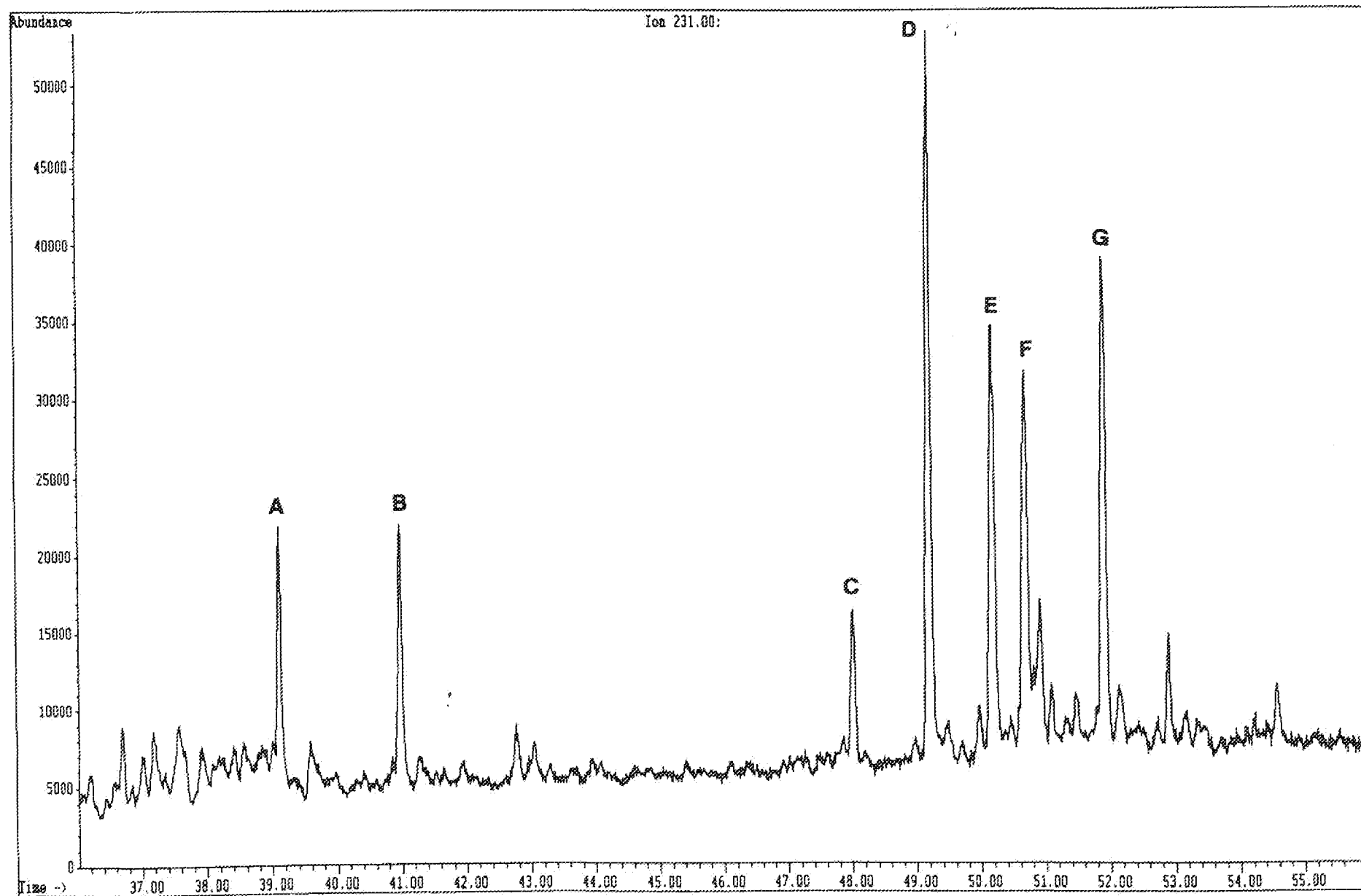
File: D:\CHEMPC\DATA\5501004.D
Operator:
Date Acquired:
Method File Name: BIOMY.M
Sample Name: 4069-004A
Misc Info:
Bottle Number: 55

Figure: A3.4k
Well: 34/7-13
Depth: 2506.80m



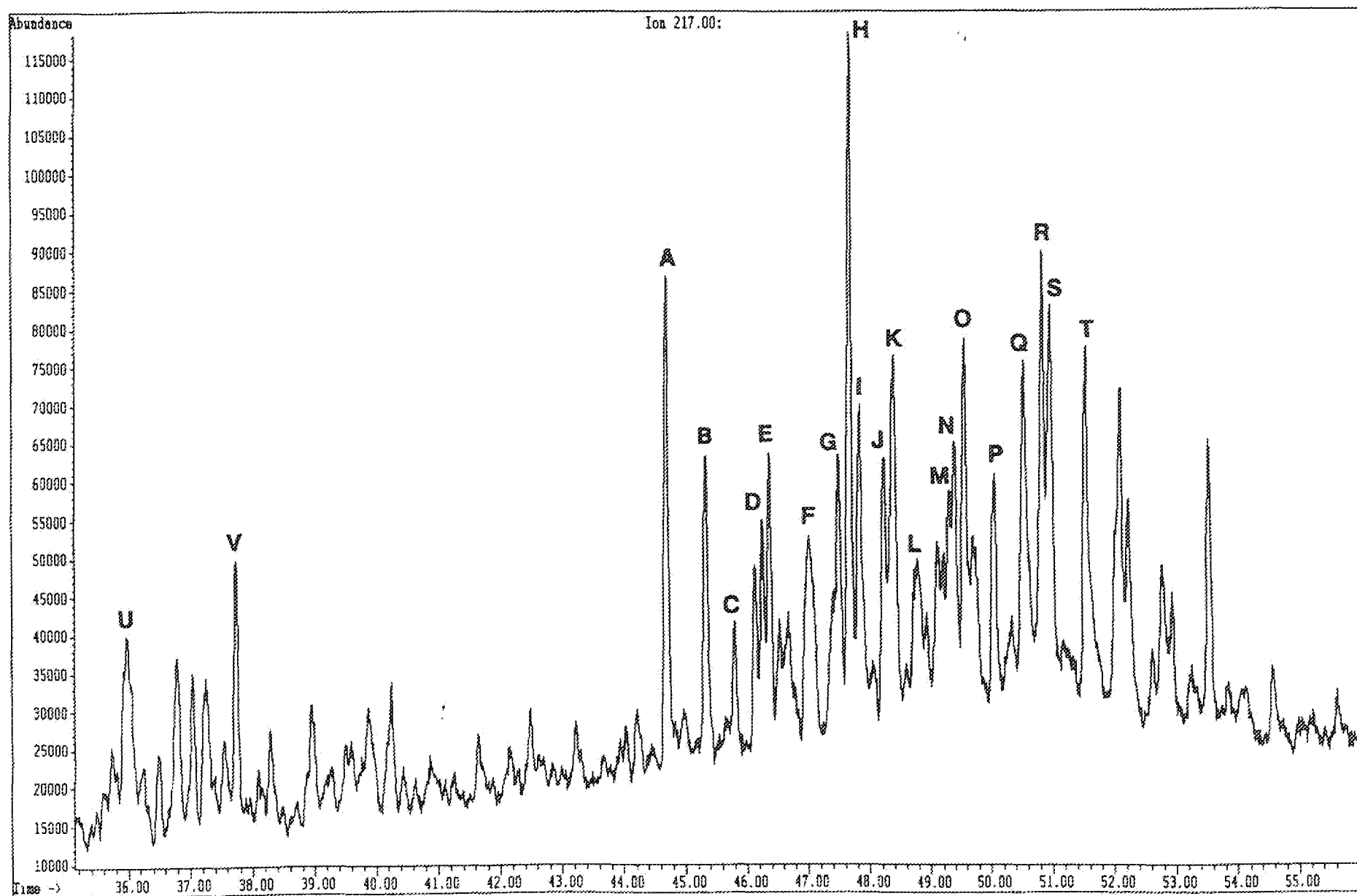
File: D:\CHEMPC\DATA\5501004.D
Operator:
Date Acquired:
Method File Name: BIOMY.M
Sample Name: 4069-004A
Misc Info:
Bottle Number: 55

Figure: A3.4I
Well: 34/7-13
Depth: 2506.80m



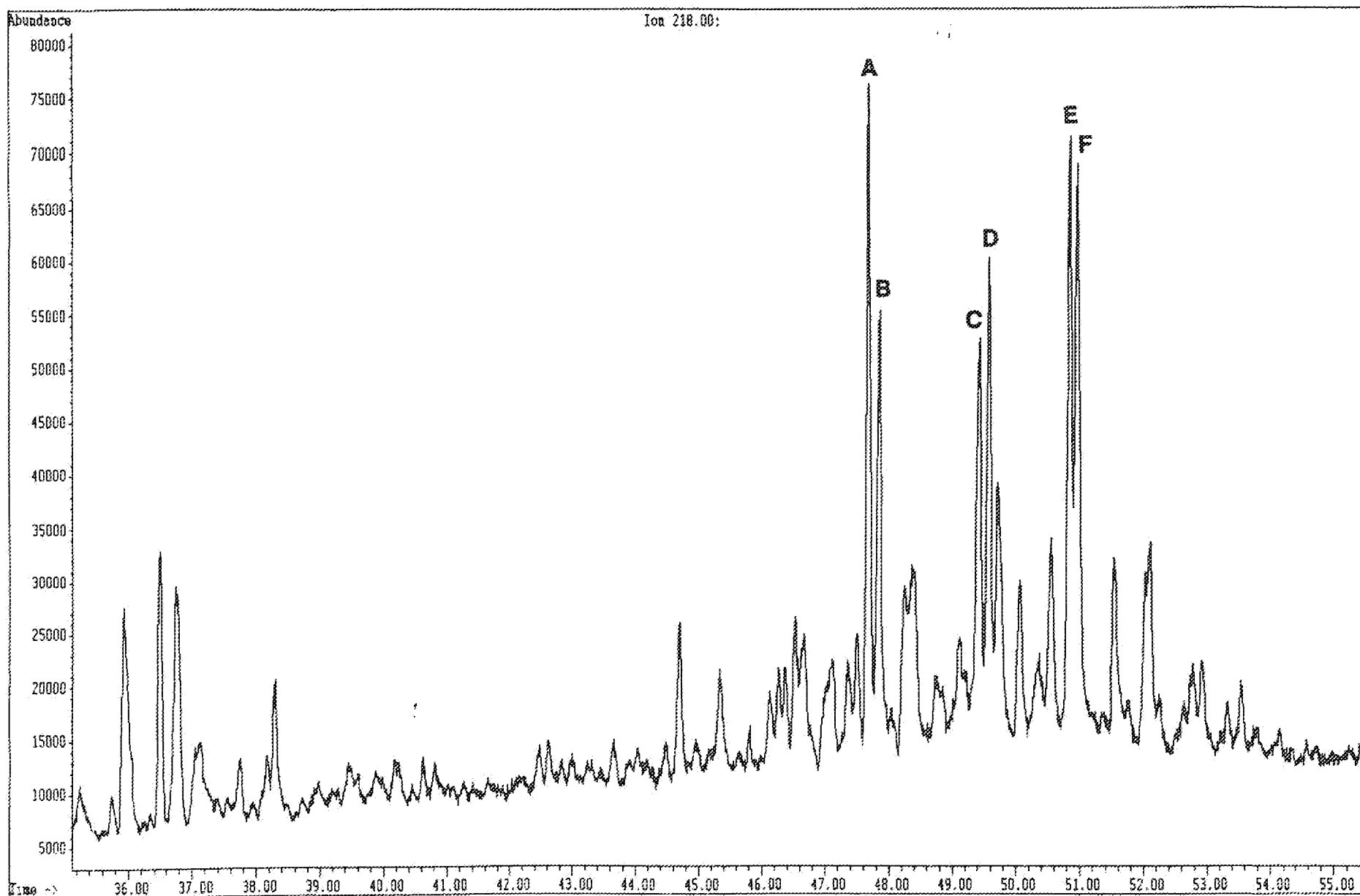
file: D:\CHEMPC\DATA\6901005.D
Operator:
Date Acquired:
Method File Name: B10M.M
Sample Name: 4069-005A
Misc Info:
Bottle Number: 69

Figure: A3.5a
Well: 34/7-13
Depth: 2510.75m



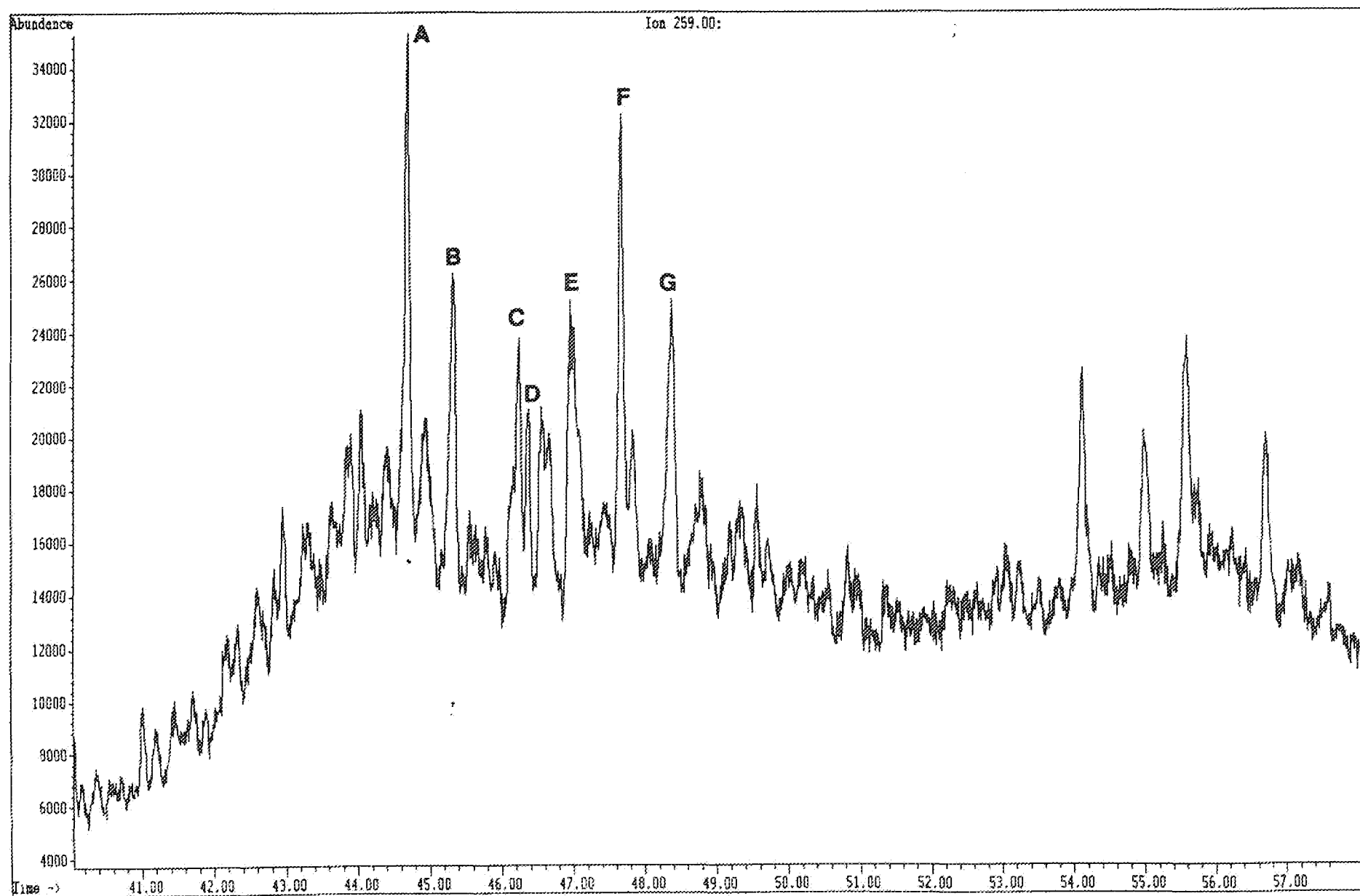
File: D:\CHEMPC\DATA\6901005.D
Operator:
Date Acquired:
Method File Name: H10M.M
Sample Name: 4069-005A
Misc Info:
Bottle Number: 69

Figure: A3.5b
Well: 34/7-13
Depth: 2510.75m



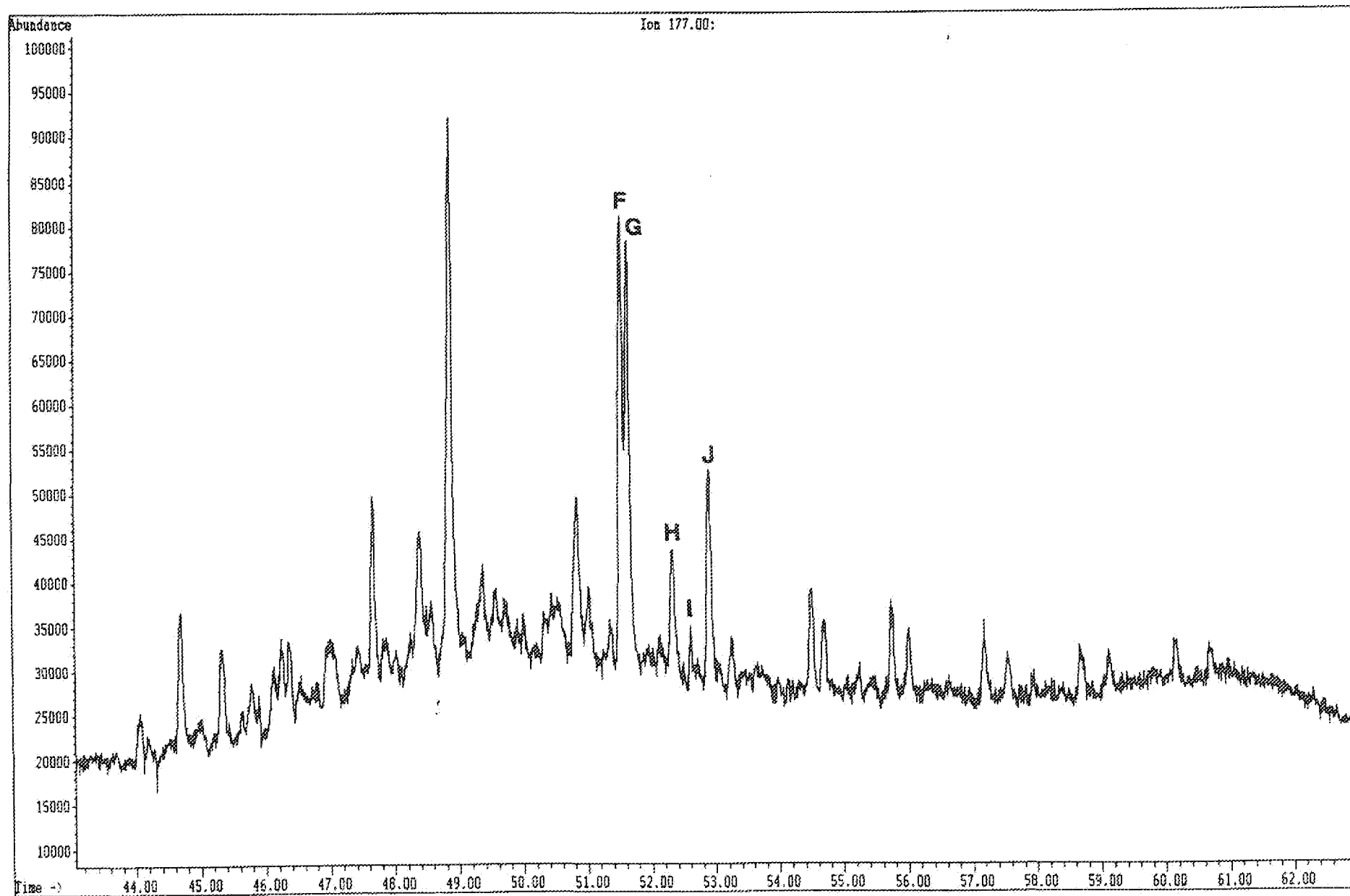
file: D:\CHEMPC\DATA\6901005.D
Operator:
Date Acquired:
Method File Name: BIOM.M
Sample Name: 4069-005A
Misc Info:
Bottle Number: 69

Figure: A3.5c
Well: 34/7-13
Depth: 2510.75m



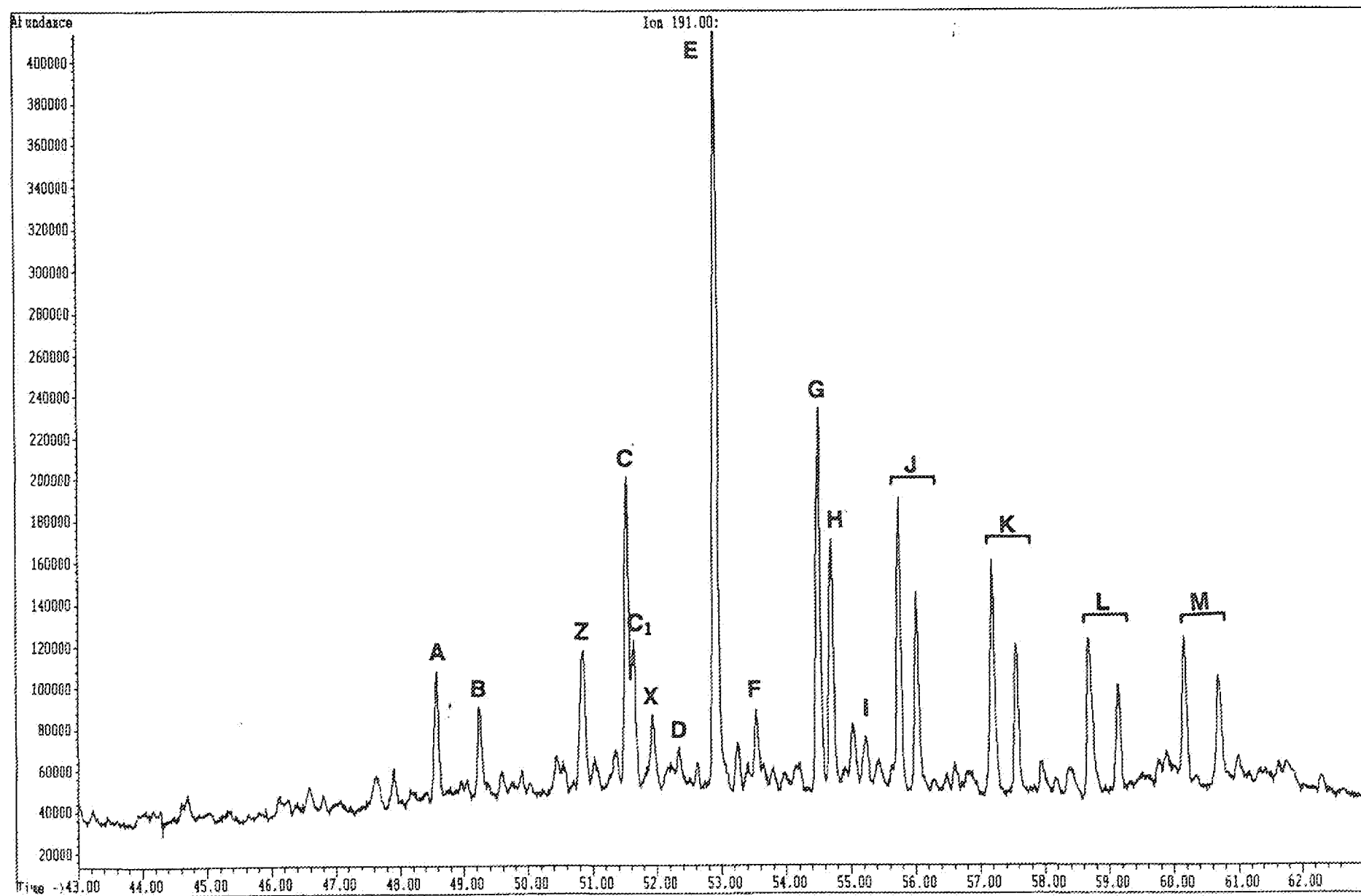
file: D:\CHEMPC\DATA\6901005.D
Operator:
Date Acquired:
Method File Name: BION.M
Sample Name: 4069-005A
Misc Info:
Bottle Number: 69

Figure: A3.5d
Well: 34/7-13
Depth: 2510.75m



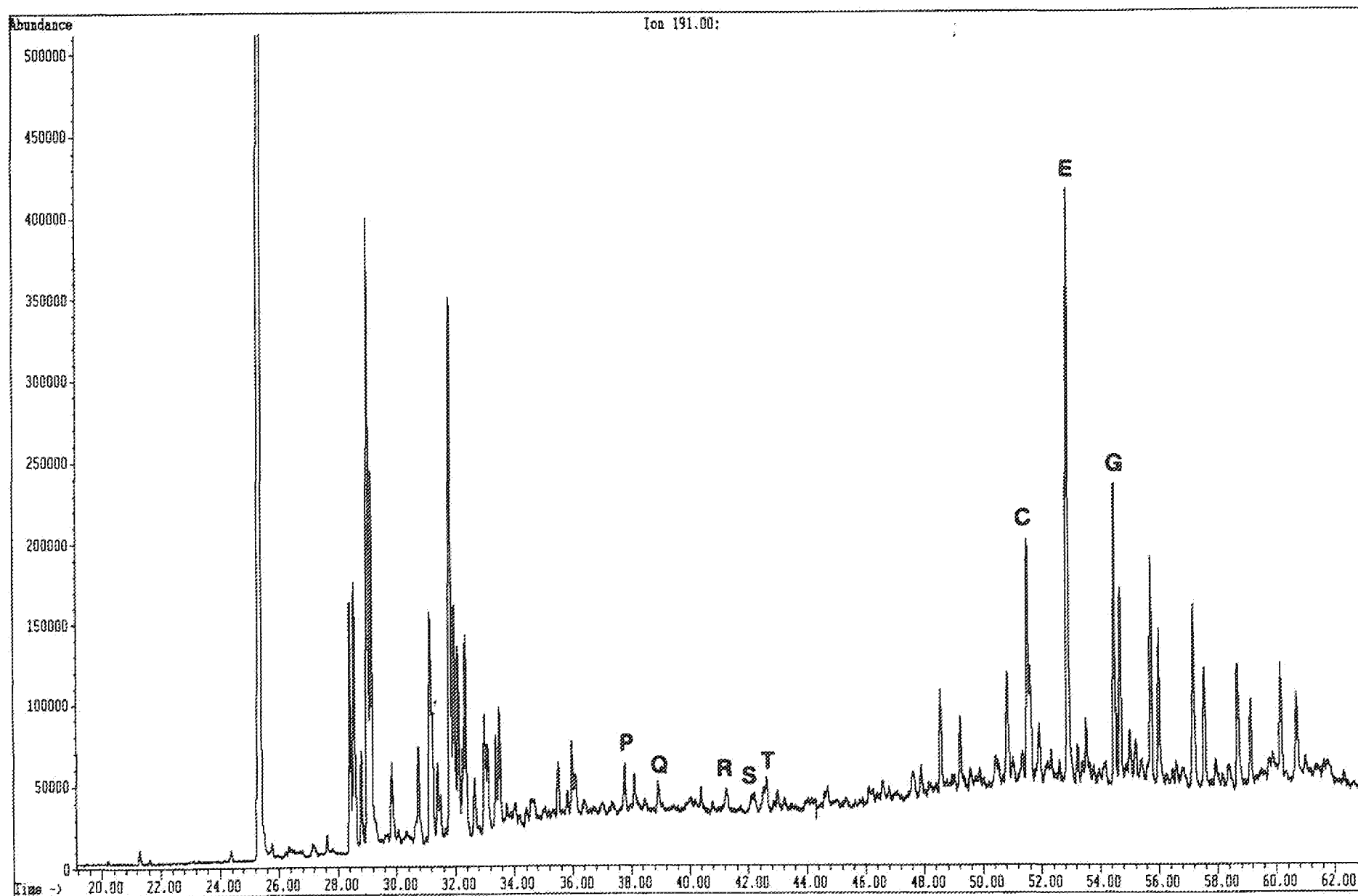
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Operator:
Date Acquired:
Method File Name: B10M.m
Sample Name: 4069-005A
Misc Info:
Bottle Number: 69

Figure: A3.5e
Well: 34/7-13
Depth: 2510.75m



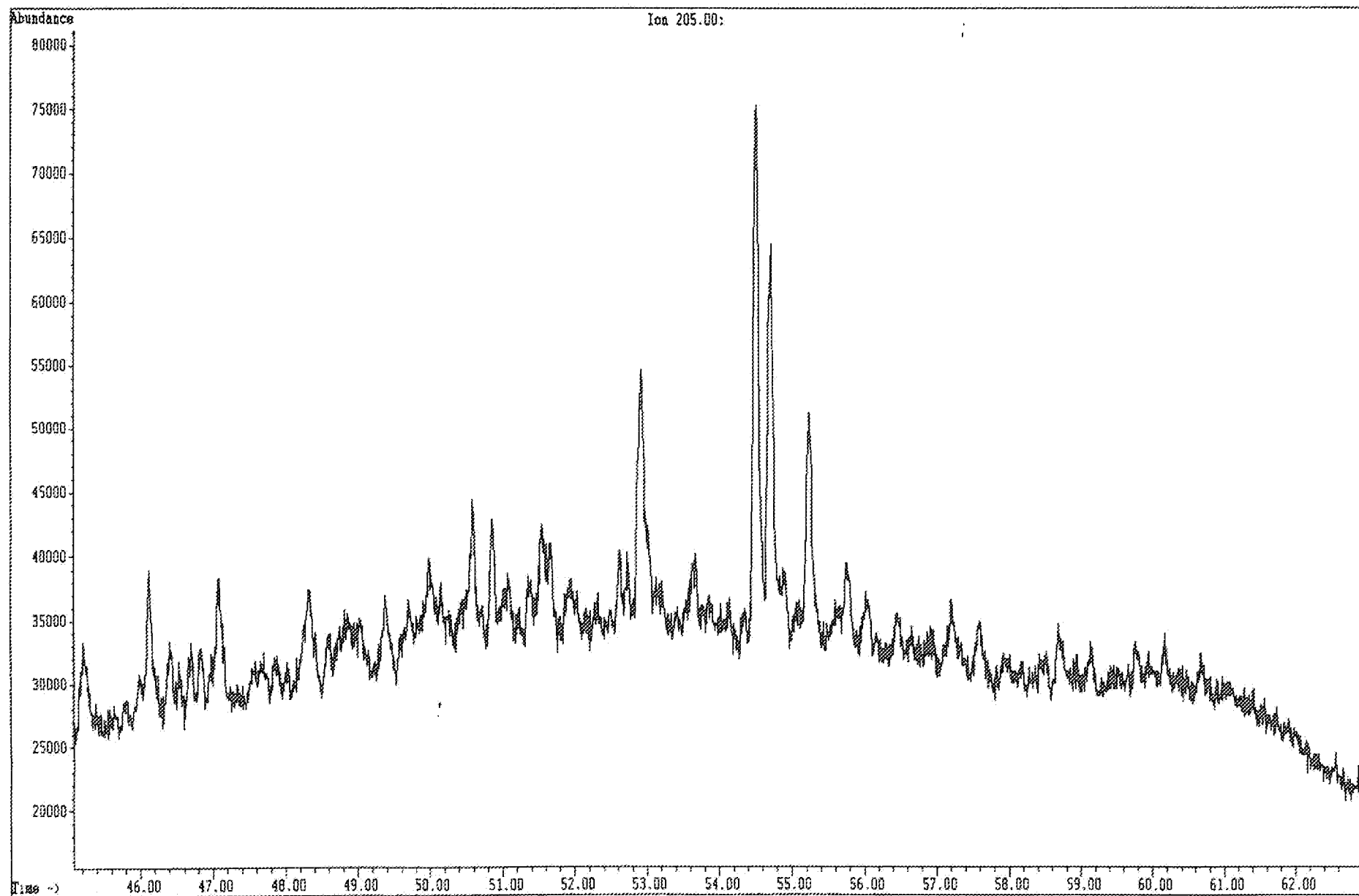
File: D:\CHEMPC\DATA\6901005.D
Operator:
Date Acquired:
Method File Name: B10M.M
Sample Name: 4069-005A
Misc Info:
Bottle Number: 69

Figure: A3.5f
Well: 34/7-13
Depth: 2510.75m



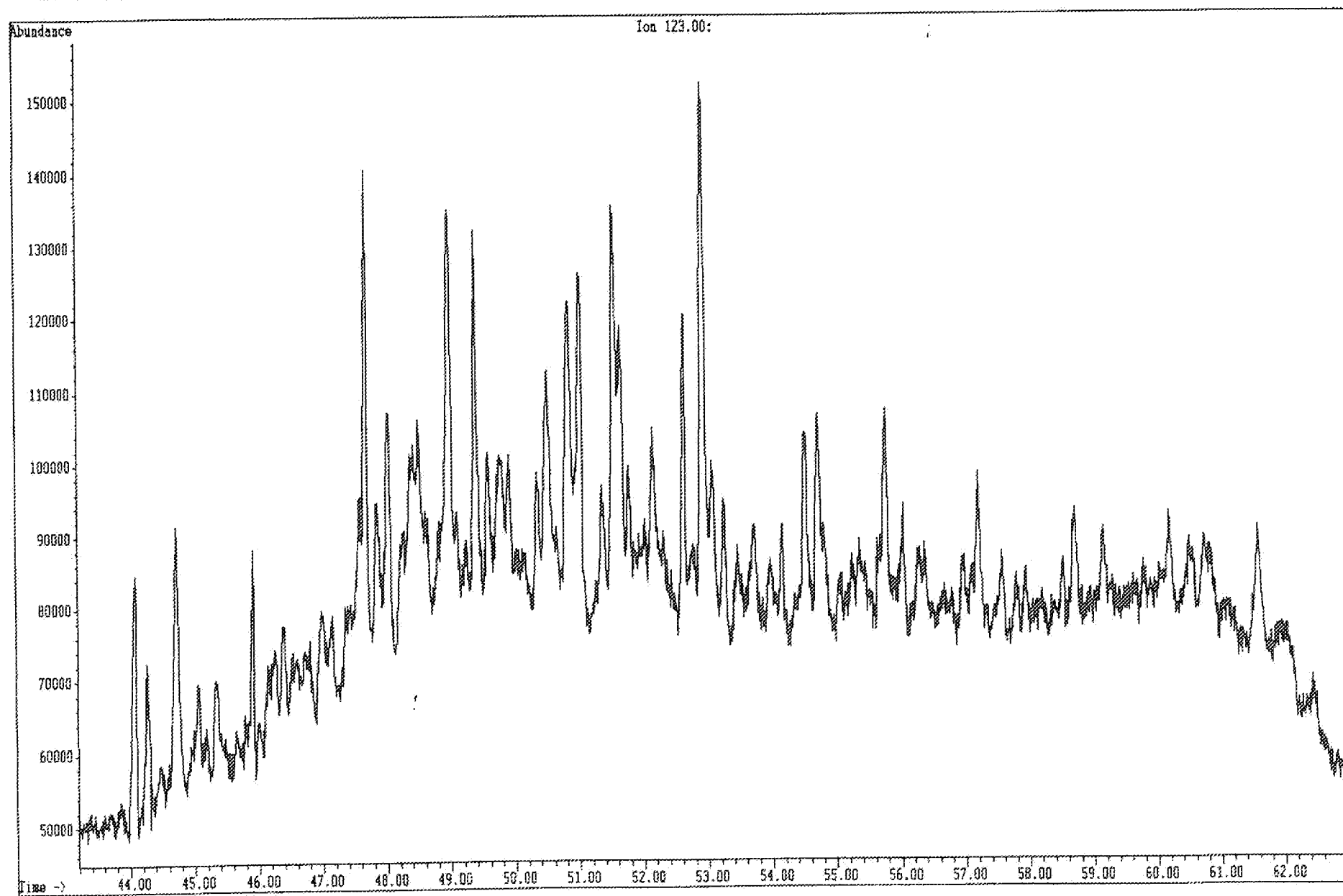
File: D:\CHEMPC\DATA\6901005.D
Operator:
Date Acquired:
Method File Name: BIOM.M
Sample Name: 4069-005A
Misc Info:
Bottle Number: 69

Figure: A3.5g
Well: 34/7-13
Depth: 2510.75m



File: D:\CHEMPC\DATA\6901005.D
Operator:
Date Acquired:
Method File Name: B10M.M
Sample Name: 4069-005A
Misc Info:
Bottle Number: 69

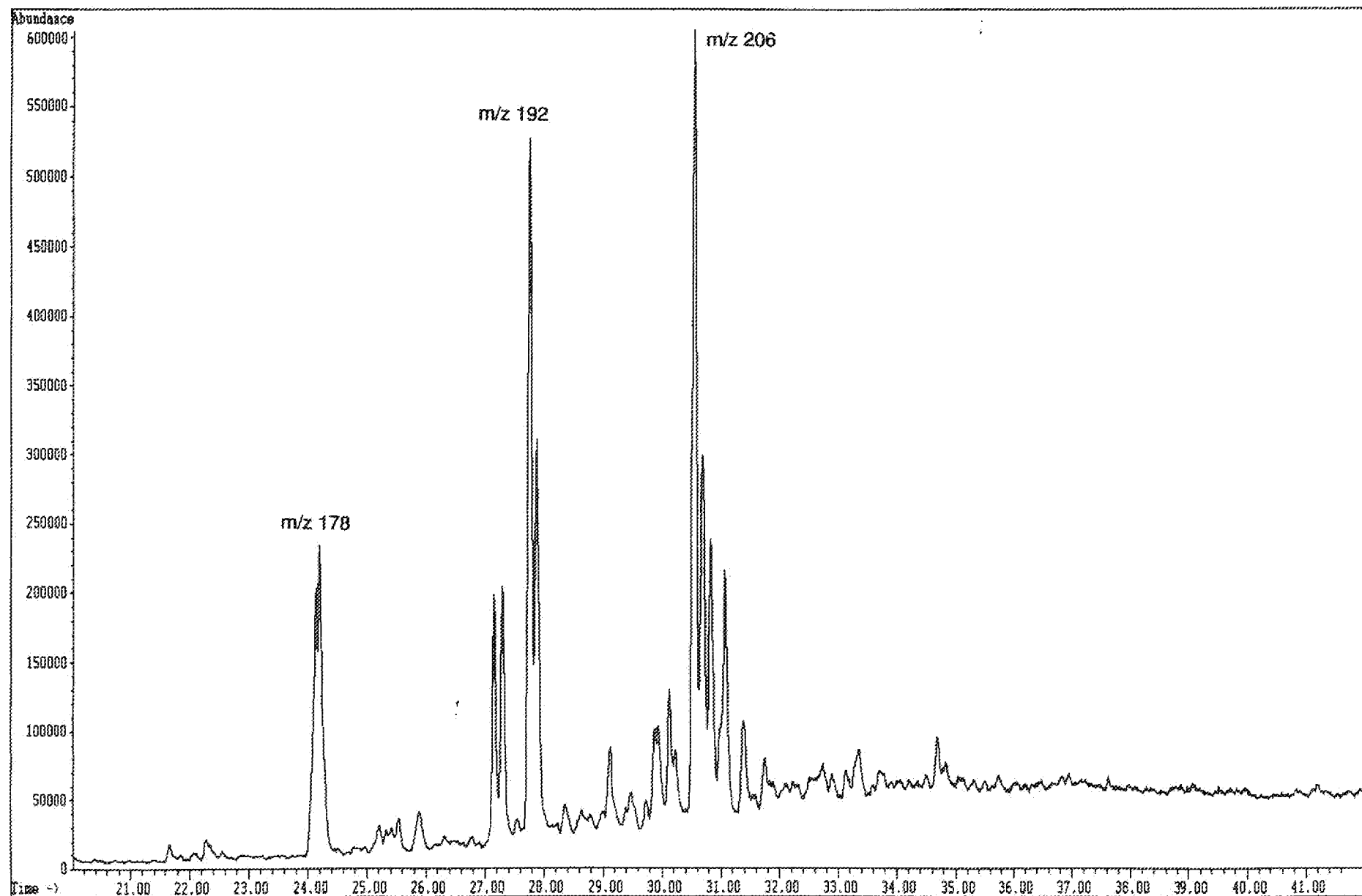
Figure: A3.5h
Well: 34/7-13
Depth: 2510.75m



file: D:\CHEMPC\DATA\5101001.D
Operator:
Date Acquired:
Method File Name: B10MY.M
Sample Name: 4069-005A
Misc Info:
Bottle Number: 51

Figure: A3.5i
Well: 34/7-13
Depth: 2510.75m

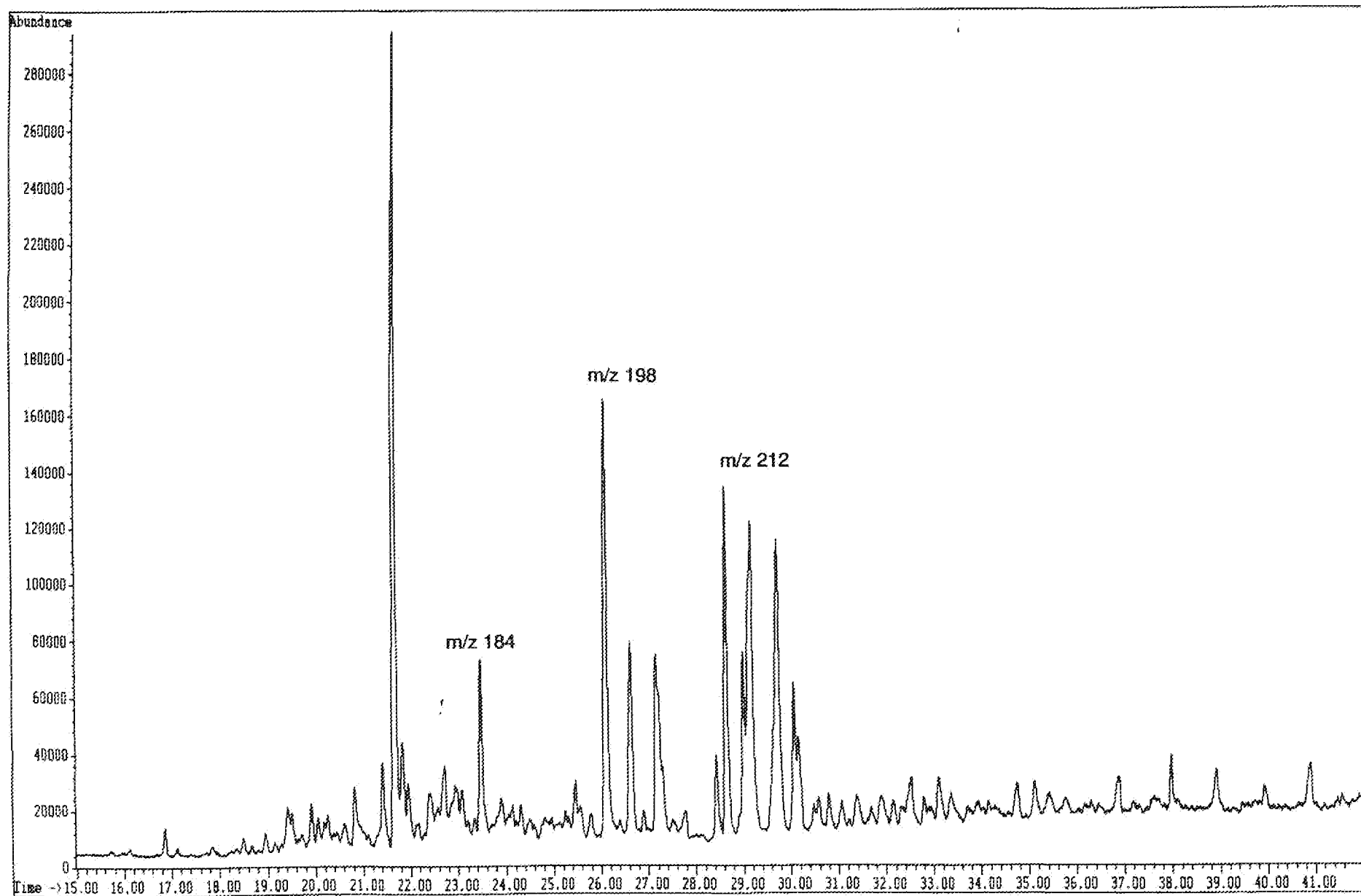
Phenanthrenes



File: D:\CHEMPC\DATA\5101001.D
Operator:
Date Acquired:
Method File Name: BIOMY.M
Sample Name: 4069-005A
Misc Info:
Bottle Number: 51

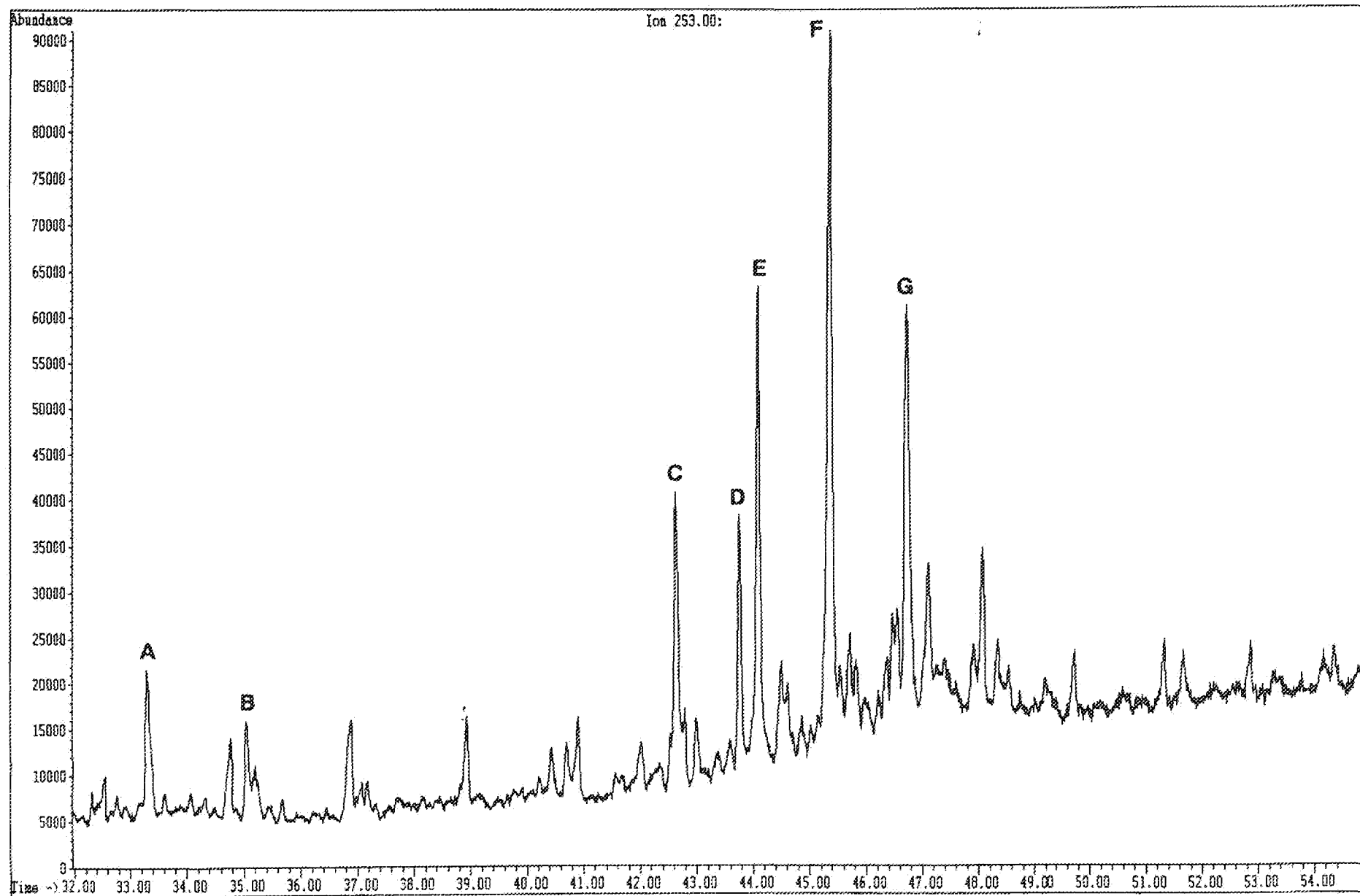
Dibenzothiophenes

Figure: A3.5j
Well: 34/7-13
Depth: 2510.75m



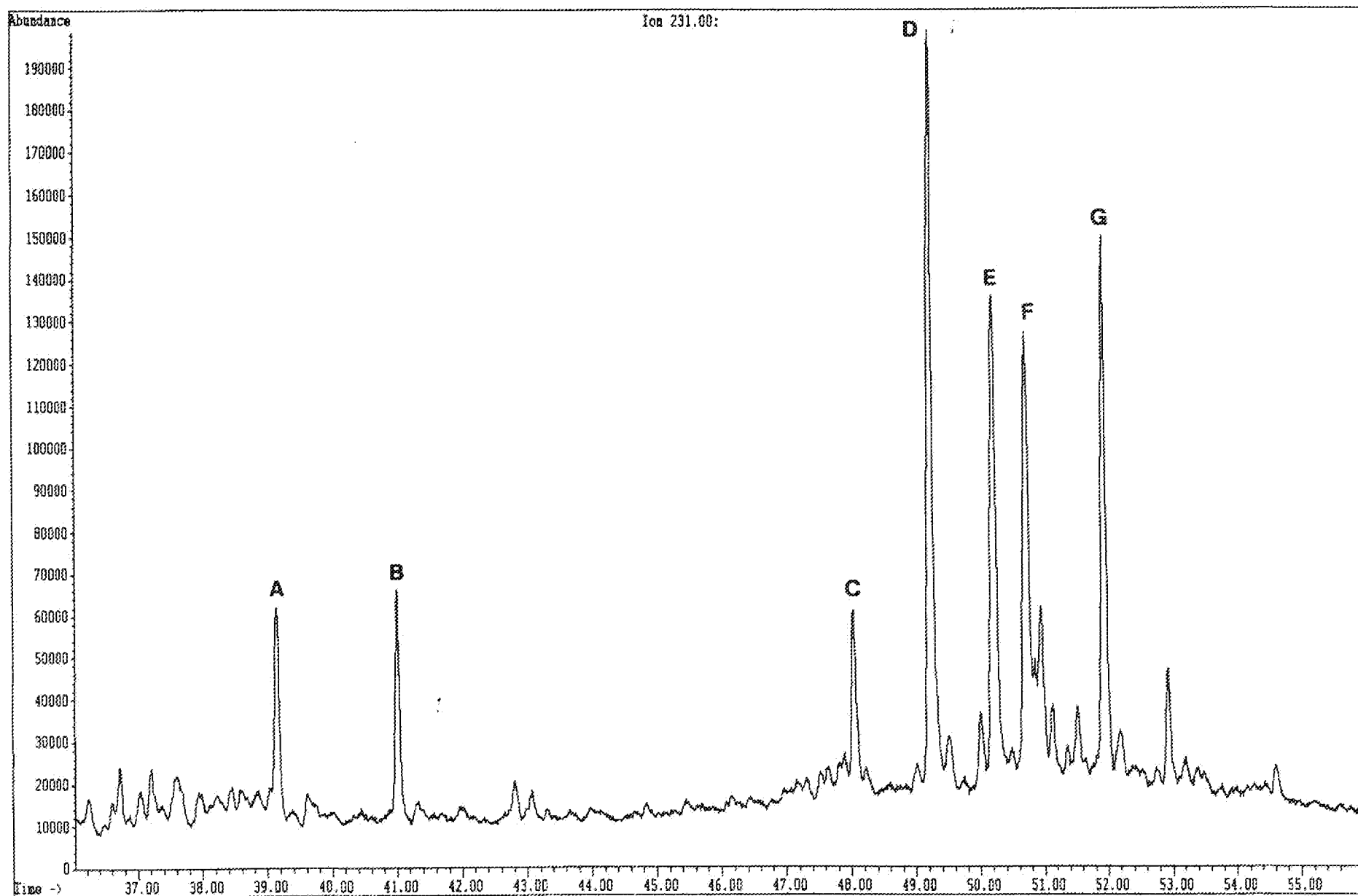
Operator: D:\CHEMPC\DATA\5101001.D
Date Acquired:
Method File Name: BIOMY.M
Sample Name: 4069-005A
Misc Info:
Bottle Number: 51

Figure: A3.5k
Well: 34/7-13
Depth: 2510.75m



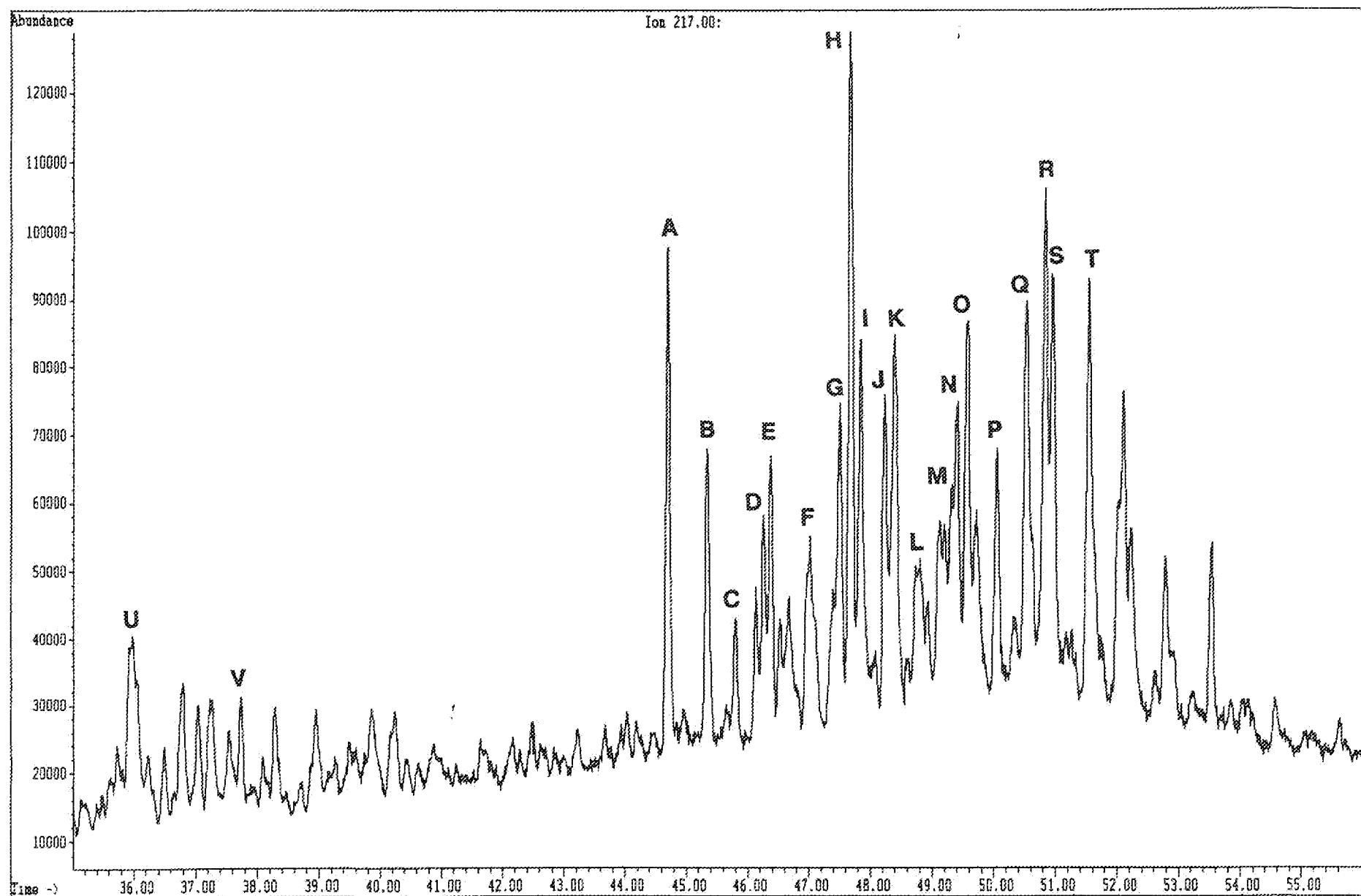
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Operator:
Date Acquired:
Method File Name: BICMY.M
Sample Name: 4069-005A
Misc Info:
Bottle Number: 51

Figure: A3.51
Well: 34/7-13
Depth: 2510.75m



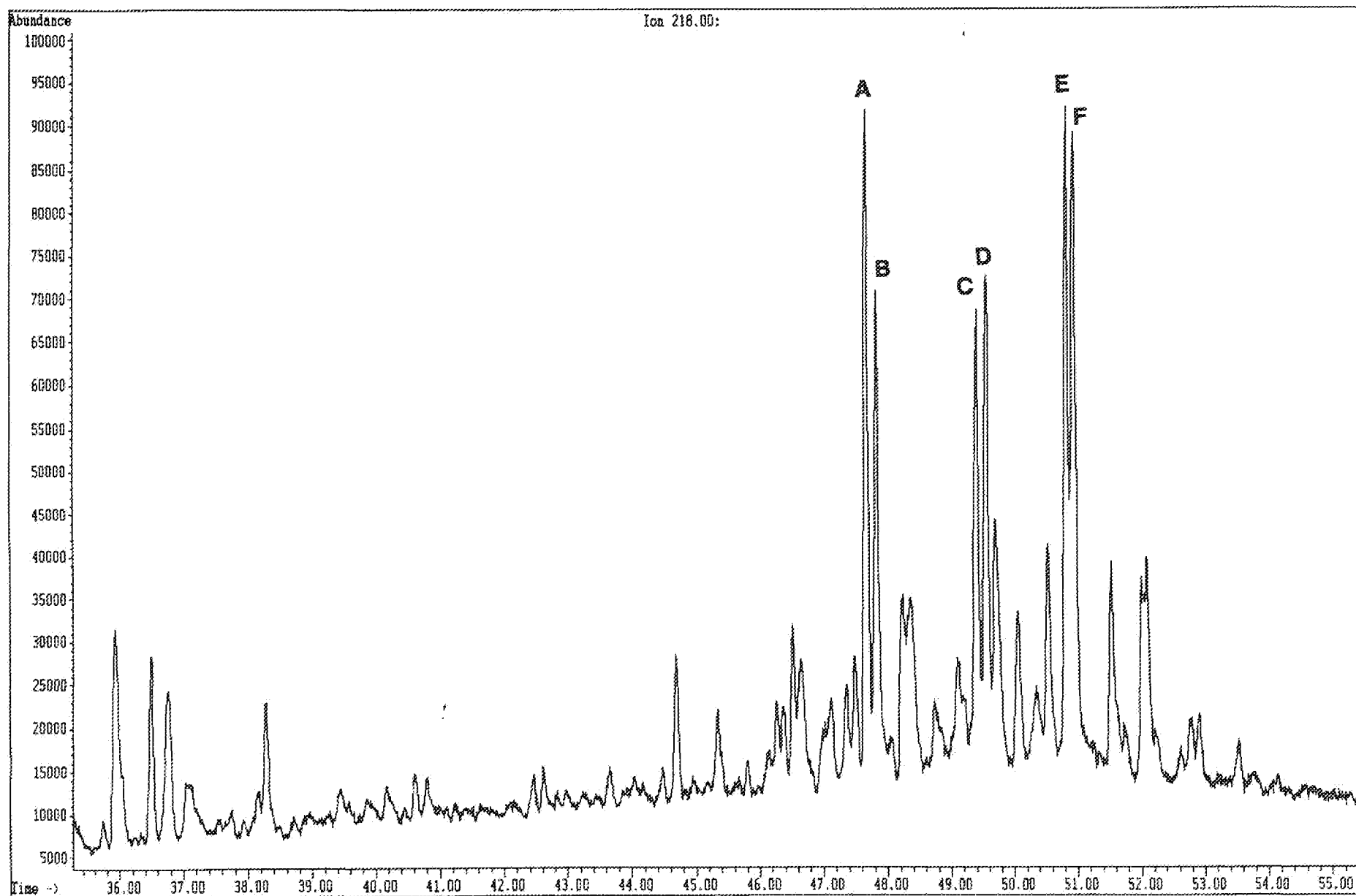
File: D:\CHEMP\DATA\7001006.D
Operator:
Date Acquired:
Method File Name: B10M.M
Sample Name: 4069-006A
Misc Info:
Bottle Number: 70

Figure: A3.6a
Well: 34/7-13
Depth: 2514.50m



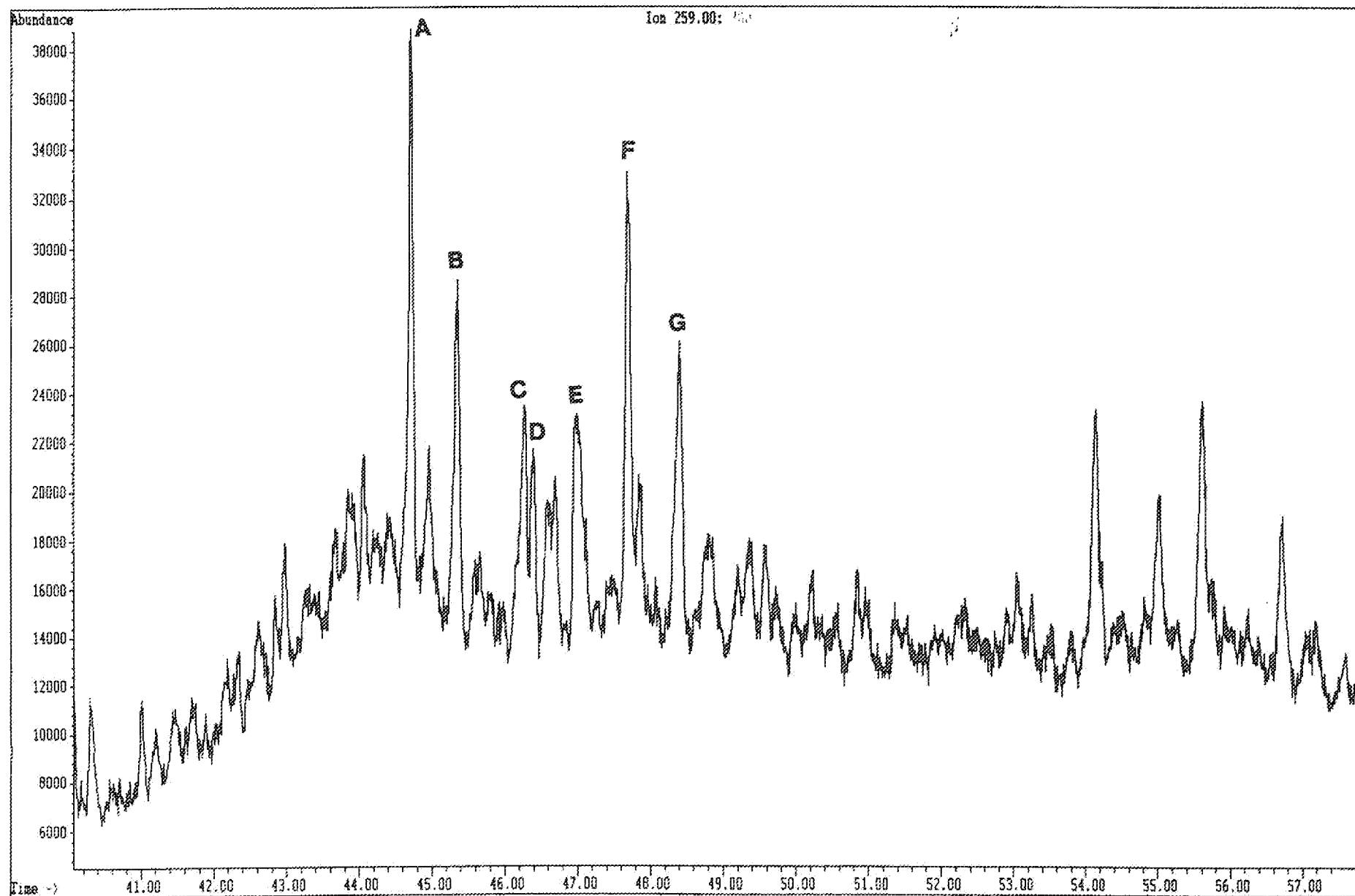
File: D:\CHEMPC\DATA\7001006.D
Operator:
Date Acquired:
Method File Name: BTOM.M
Sample Name: 4069-006A
Misc Info:
Bottle Number: 70

Figure: A3.6b
Well: 34/7-13
Depth: 2514.50m



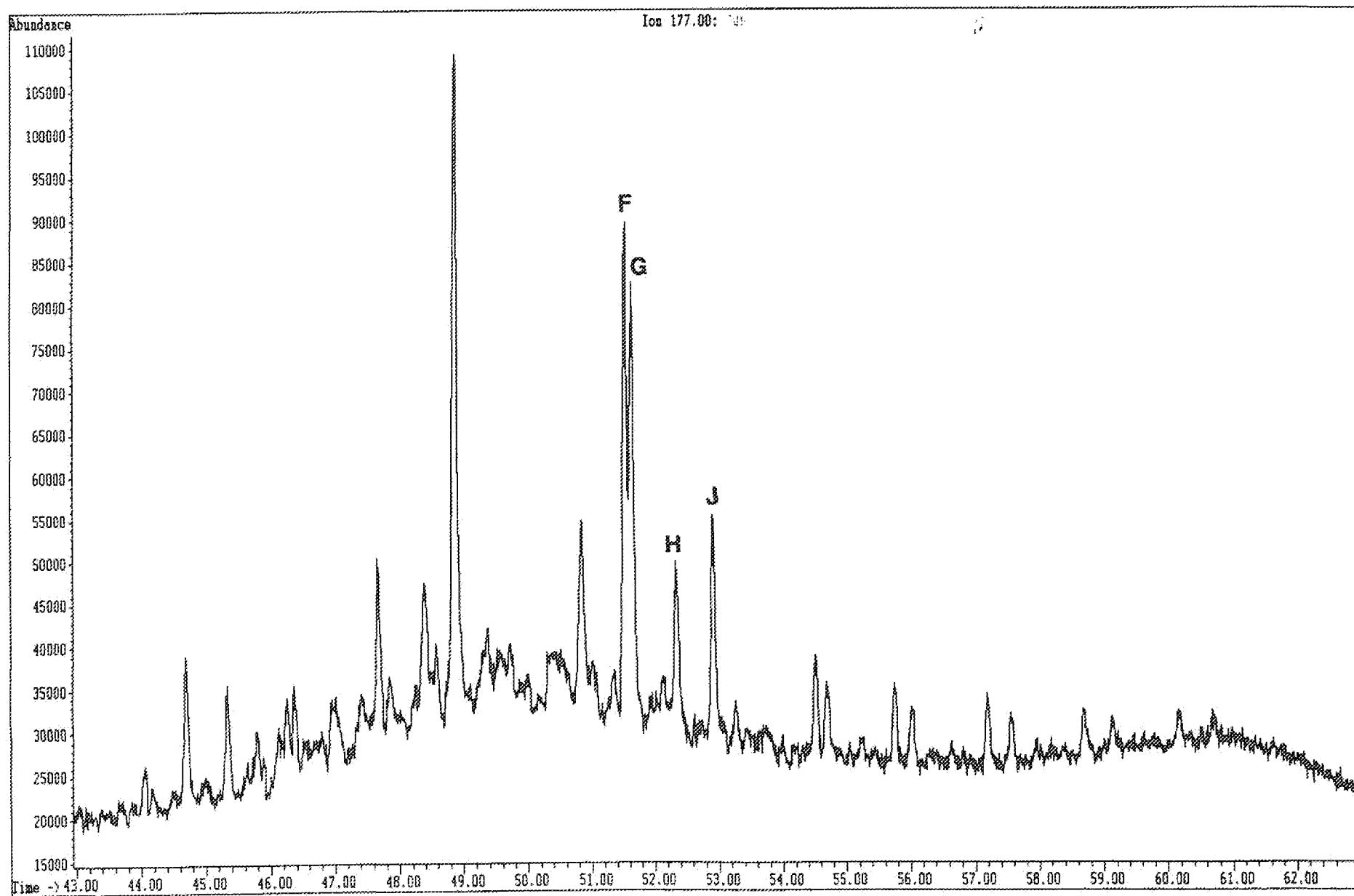
File: D:\CHEMPC\DATA\7001006.D
Operator:
Date Acquired:
Method File Name: BIOM.M
Sample Name: 4069-006A
Misc Info:
Bottle Number: 70

Figure: A3.6c
Well: 34/7-13
Depth: 2514.50m



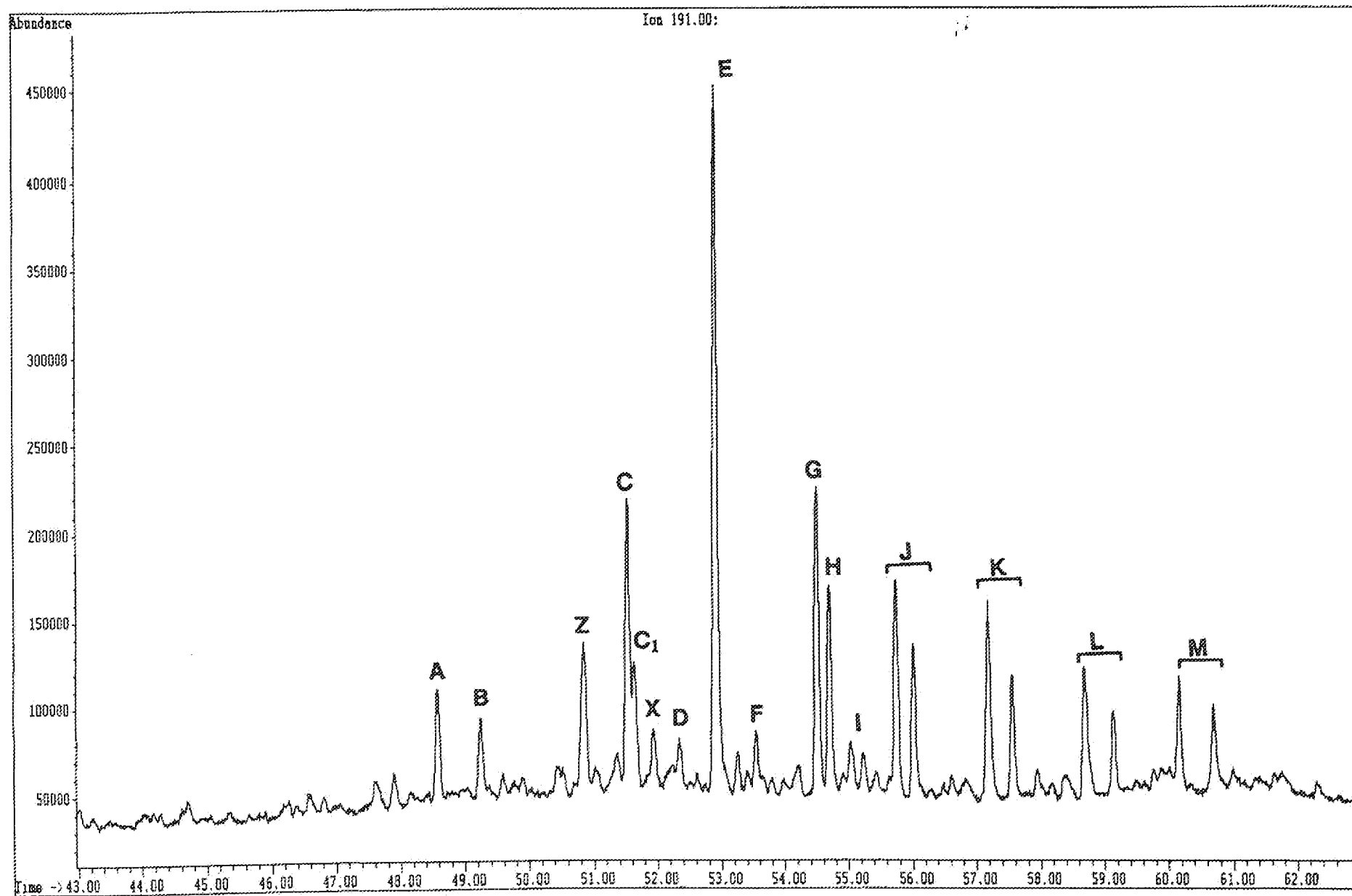
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Operator:
Date Acquired:
Method File Name: BIOM.M
Sample Name: 4069-006A
Misc Info:
Bottle Number: 70

Figure: A3.6d
Well: 34/7-13
Depth: 2514.50m



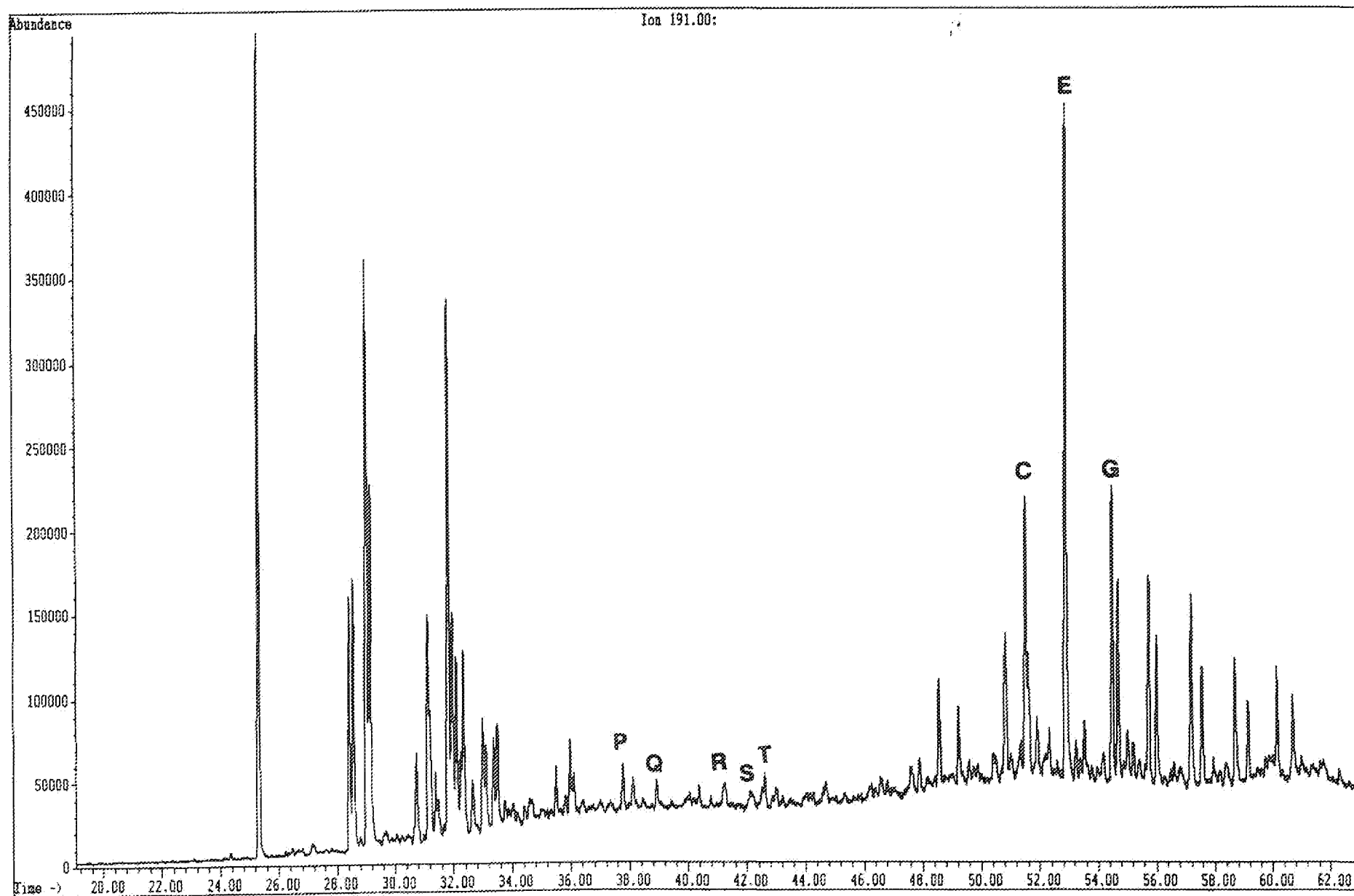
File: D:\CHEMPC\DATA\7001006.D
Operator:
Date Acquired:
Method File Name: BIOM.M
Sample Name: 4069-006A
Misc Info:
Bottle Number: 70

Figure: A3.6e
Well: 34/7-13
Depth: 2514.50m



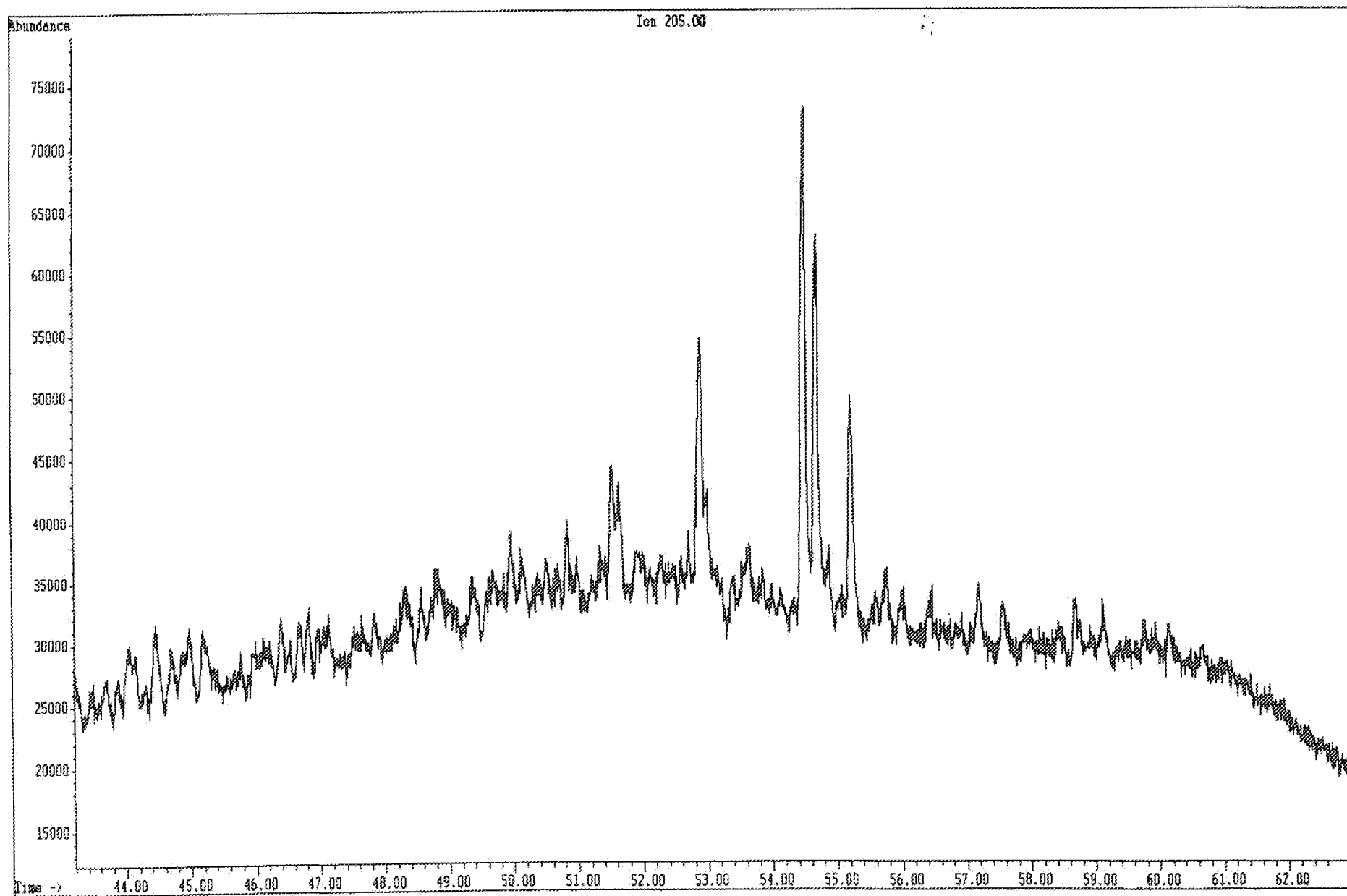
File: D:\CHEMPC\DATA\7801806.D
Operator:
Date Acquired:
Method File Name: BIOM.M
Sample Name: 4069-006A
Misc Info:
Bottle Number: 70

Figure: A3.6f
Well: 34/7-13
Depth: 2514.50m



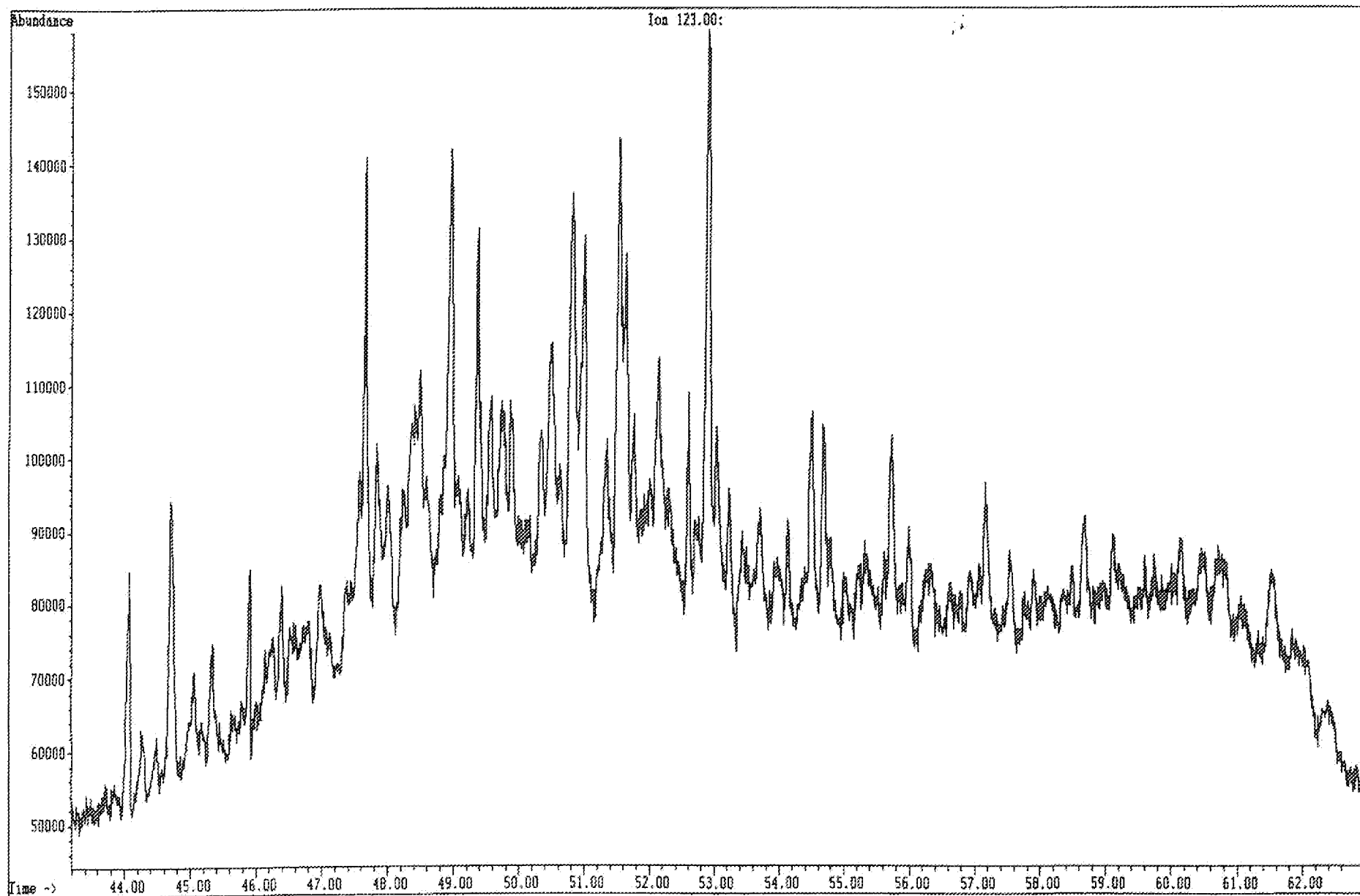
File: D:\CHEMPC\DATA\7001006.D
Operator:
Date Acquired:
Method File Name: BIOM.M
Sample Name: 4069-006A
Misc Info:
Bottle Number: 70

Figure: A3.6g
Well: 34/7-13
Depth: 25 ± 4.50m



File: D:\CHEMPC\DATA\7001006.D
Operator:
Date Acquired:
Method File Name: BIOM.M
Sample Name: 4069-006A
Misc Info:
Bottle Number: 70

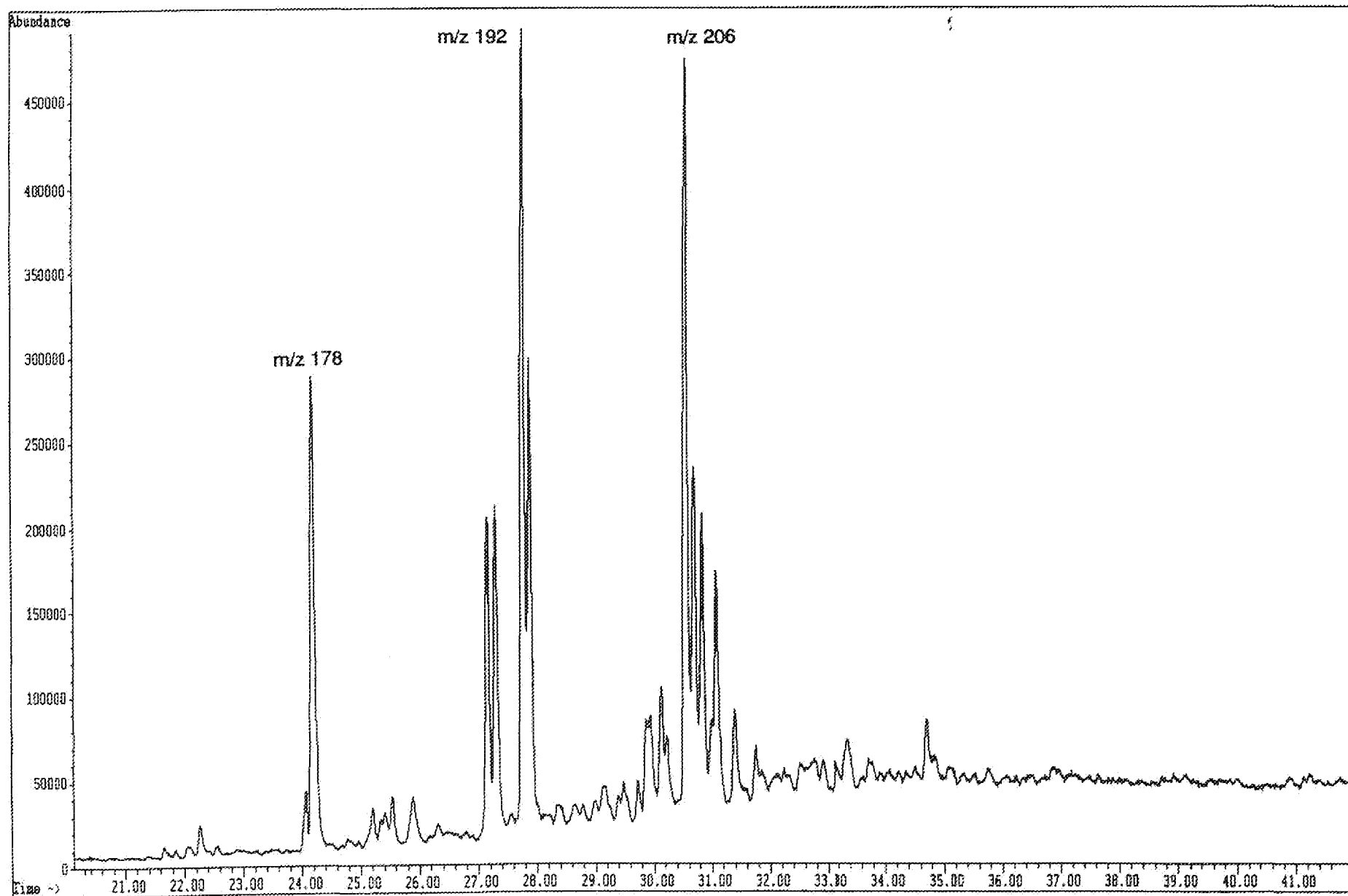
Figure: A3.6h
Well: 34/7-13
Depth: 2514.50m



File: D:\CHEMPC\DATA\5601005.D
Operator
Date Acquired:
Method File Name: BIOMY.M
Sample Name: 4069-006A
Misc Inf:
Bottle Number: 56

Phenanthrene

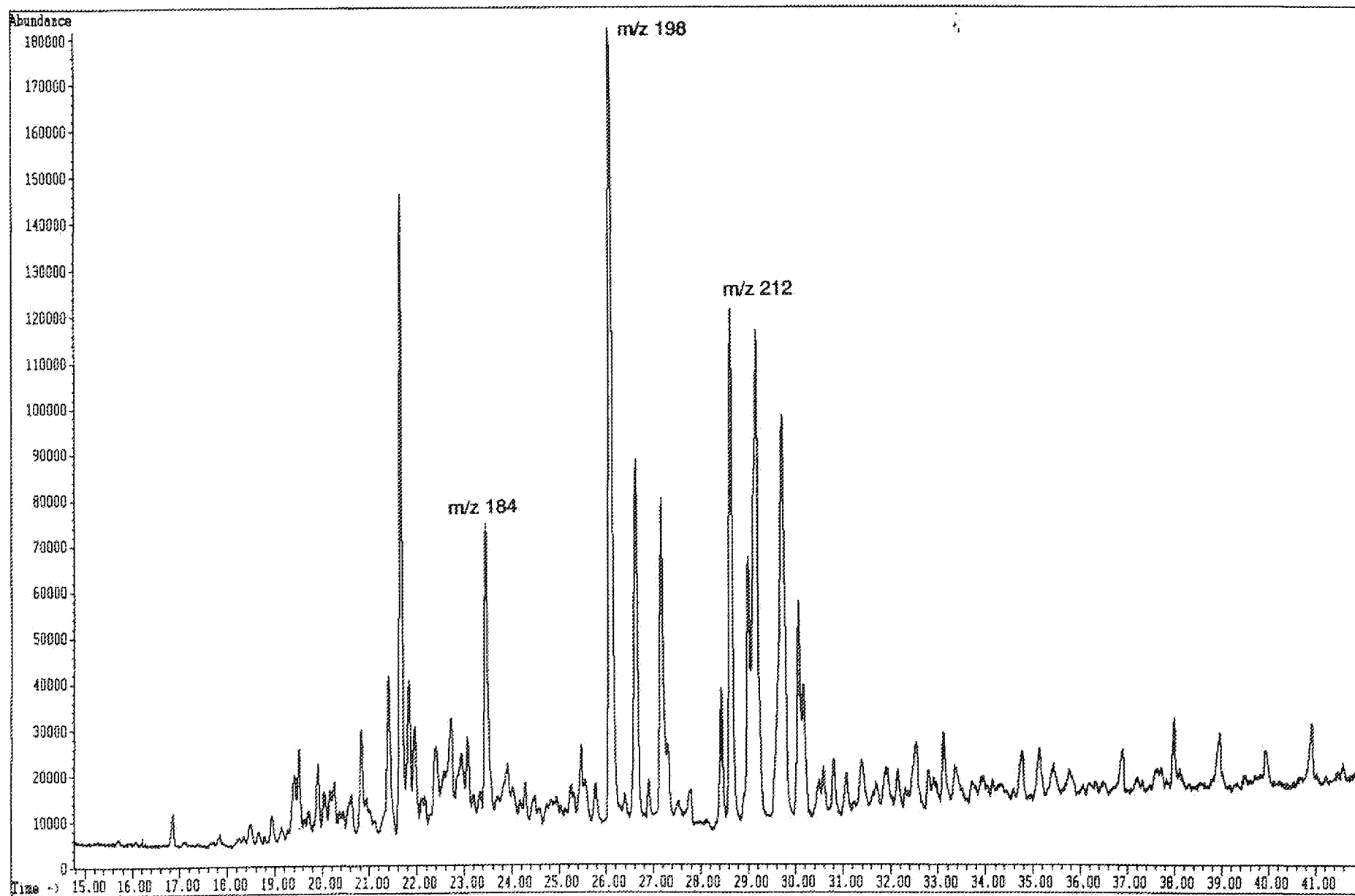
Figure: A3.6i
Well: 34/7-13
Depth: 2514.50m



File: D:\CHEMPC\DATA\5601005.D
Operator:
Date Acquired:
Method File Name: B10MY.M
Sample Name: 4069-006A
Misc Info:
Bottle Number: 56

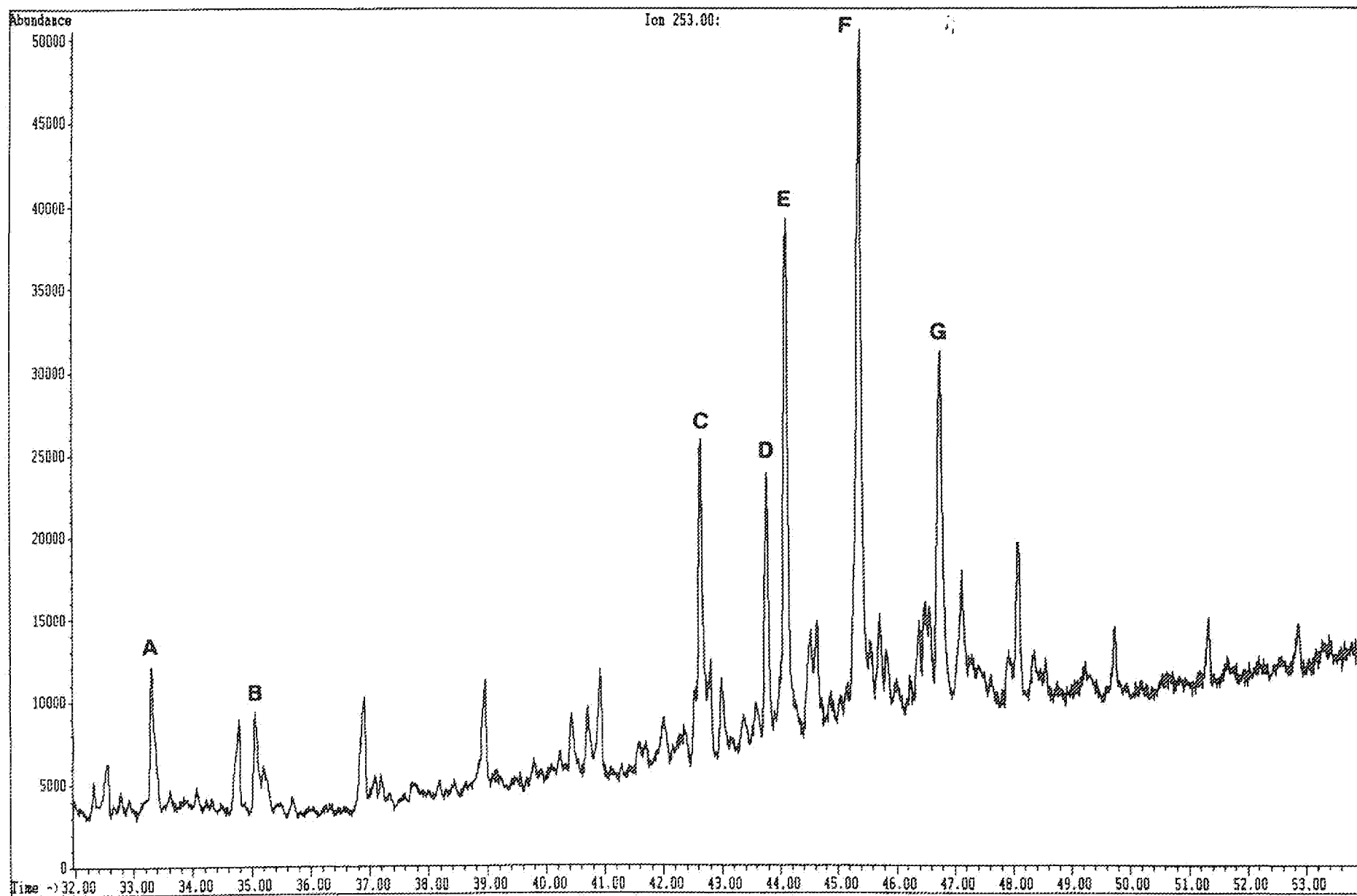
Dibenzothiophenes

Figure: A3.6j
Well: 34/7-13
Depth: 2514.50m



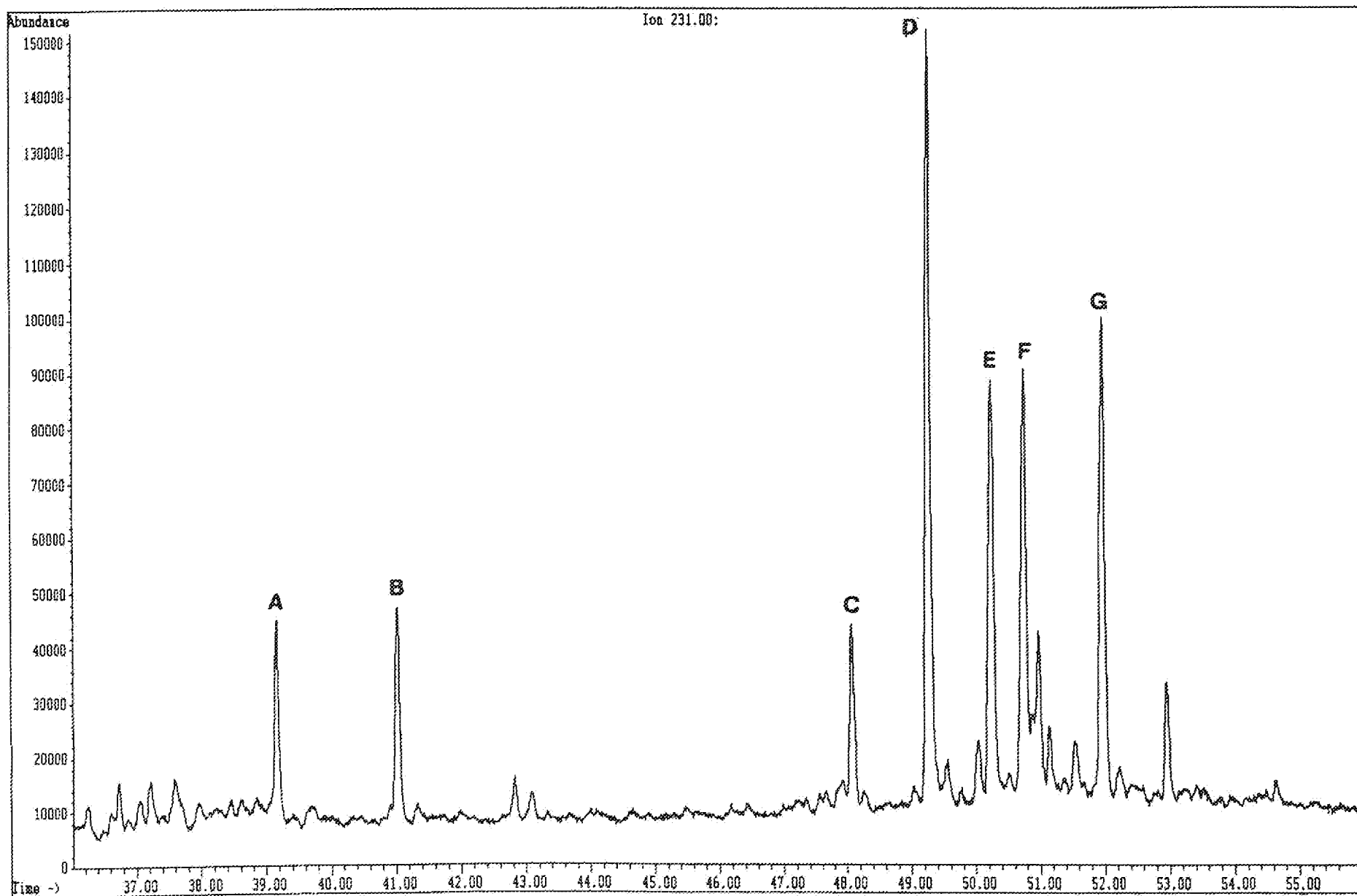
File: D:\CHEMPC\DATA\5601005.D
Operator:
Date Acquired:
Method File Name: B10MY.M
Sample Name: 4069-006A
Misc Info:
Bottle Number: 56

Figure: A3.6k
Well: 34/7-13
Depth: 2514.50m



File: D:\CHEMPC\DATA\5601005.D
Operator:
Data Acquired:
Method File Name: B10MY.M
Sample Name: 4069-006A
Misc Info:
Bottle Number: 56

Figure: A3.6l
Well: 34/7-13
Depth: 2514.50m



WELL 34/7-5

TABLE B.1
ORGANIC CARBON RESULTS AND GROSS LITHOLOGIC DESCRIPTIONS

JOB 4070				
GEOCHEM SAMPLE NUMBER	DEPTH/ IDENTITY	GROSS LITHOLOGIC DESCRIPTION	G S A COLOUR CODE	TOTAL ORGANIC CARBON (Wt. %)

WELL: 34/7-5

4070-001	2510.80m	A100% SANDSTONE - fine grained, sub-angular, blocky, firm, micaceous, dull gold F, slow blooming milky C, pale yellowish brown.	10YR6/2	
4070-002	2518.80m	A100% SANDSTONE - med to coarse grained, sub-angular, poorly sorted, blocky, firm, arg, dull gold F, v slow blooming milky C, pale yellowish brown to greyish orange.	10YR6/2- 10YR7/4	

Abbreviations = arenaceous, argillaceous, calcareous, Cut, dolomite, Fluorescence, foraminifera fossiliferous, Lost Circulation Material, moderately, occasionally, slightly, very

TABLE B.2
CONCENTRATION (PPM) OF EXTRACTED C₁₅₊ MATERIAL IN ROCK

JOB 4070	L I T H O	DEPTH/ IDENTITY	TOTAL EXTRACT	HYDROCARBONS			NON HYDROCARBONS			
GEOCHEM SAMPLE NUMBER				Saturates	Aromatics	TOTAL	Preciptd. Asphaltenes	Eluted NSO's	Non-Eluted NSO's	TOTAL

WELL: 34/7-5

4070-001A	2510.80m	14035	10811	1215	12026	385	1597	27	2009
4070-002A	2518.80m	4642	3493	359	3852	259	526	4	790

TABLE B.3
COMPOSITION (NORMALISED %) OF C₁₅₊ MATERIAL

JOB 4070	L I T H O	DEPTH/ IDENTITY	HYDROCARBONS		NON HYDROCARBONS		
GEOCHEM SAMPLE NUMBER			Saturates	Aromatics	Preciptd. Asphaltenes	Eluted NSO's	Non-Eluted NSO's

WELL: 34/7-5

4070-001A	2510.80m	77.03	8.66	2.74	11.38	0.19
4070-002A	2518.80m	75.24	7.74	5.59	11.33	0.09

TABLE B.4
SIGNIFICANT C₁₅₊ RATIOS

JOB 4070	LITHOLOGY	DEPTH/ IDENTITY	TOC (%)	mg/g TOC						HYDROCARBONS % TOTAL EXTRACT	SATURATES AROMATICS
GEOCHEM SAMPLE NUMBER				TOTAL EXTRACT	SATURATES	AROMATICS	TOTAL HYDROCARBONS	ELUTED NSO's	ASPHALTENES		

WELL: 34/7-5

4070-001A	2510.80m	0.68	2064.01	1589.84	178.68	1768.52	234.88	56.59	85.68	8.90
4070-002A	2518.80m	0.34	1365.34	1027.35	105.72	1133.07	154.69	76.31	82.99	9.72

TABLE B.4'
C₁₅+ CHROMATOGRAPHY WEIGHTS (gms)

JOB 4070	L I T H O	DEPTH/ IDENTITY	ROCK EXTRACTED	TOTAL EXTRACT	PRECIPTD. ASPHALTENES	NC5	SATURATES	AROMATICS	ELUTED NSO's	NON-ELUTED NSO's
GEOCHEM SAMPLE NUMBER										

WELL: 34/7-5

4070-001A	2510.80m	15.0200	0.21081	0.00578	0.20503	0.16238	0.01825	0.02399	0.00041
4070-002A	2518.80m	18.5000	0.08588	0.00480	0.08108	0.06462	0.00665	0.00973	0.00008

TABLE B.5
COMPOSITION (NORMALISED %) OF C₁₅+ SATURATE (PARAFFIN - NAPHTHENE) HYDROCARBONS

GEOCHEM SAMPLE NUMBER	001A	002A
DEPTH	2510.8m	2518.8m
SAMPLE TYPE		
nC15	4.35	4.38
nC16	7.47	7.81
nC17	8.21	7.46
nC18	7.61	8.71
nC19	8.05	9.01
nC20	8.30	9.20
nC21	6.93	7.72
nC22	6.91	7.53
nC23	6.47	6.14
nC24	6.64	6.33
nC25	6.62	5.73
nC26	5.86	4.75
nC27	5.09	3.89
nC28	3.80	3.02
nC29	2.90	2.80
nC30	1.98	1.90
nC31	1.21	1.40
nC32	0.60	0.82
nC33	0.43	0.62
nC34	0.32	0.49
nC35	0.24	0.27
Paraffin	17.41	19.04
Isoprenoid	2.51	2.76
Naphthene	80.08	78.20
CPI 1 Index	0.99	0.96
CPI 2 Index	1.08	1.09
CPI 3 Index	1.05	1.00
Prist/Phytane	1.23	1.11
Prist/nC17	0.71	0.90
Phytane/nC18	0.62	0.69

Job Number : 4070

$$C.P.I. 1 = \frac{1}{2} \left[\frac{C_{21} + C_{23} + C_{25} + C_{27}}{C_{20} + C_{22} + C_{24} + C_{26}} + \frac{C_{21} + C_{23} + C_{25} + C_{27}}{C_{22} + C_{24} + C_{26} + C_{28}} \right]$$

$$C.P.I. 2 = \frac{1}{2} \left[\frac{C_{25} + C_{27} + C_{29} + C_{31}}{C_{24} + C_{26} + C_{28} + C_{30}} + \frac{C_{25} + C_{27} + C_{29} + C_{31}}{C_{26} + C_{28} + C_{30} + C_{32}} \right]$$

$$C.P.I. 3 = \frac{2 \times (C_{27})}{C_{26} + C_{28}}$$

CT - ditch cuttings CO - core SWC - sidewall core

TABLE B6
METHYLPHENANTHRENE INDICES (MPI)

OB 4070	DEPTH/ IDENTITY	SAMPLE TYPE	MPI 1		Rcalc		MPI 2	
GEOCHEM SAMPLE NUMBER			AREA	HEIGHT	AREA	HEIGHT	AREA	HEIGHT

WELL: 34/7-5

4070-001A	2510.80m		0.51	0.54			0.54	0.58
4070-002A	2518.80m		0.50	0.52			0.54	0.55

TABLE B.6'

AROMATIC HYDROCARBONS RATIOS (MSD, PEAK AREA DATA)

SAMPLE NUMBER	DEPTH (m)	2MP/ 1MP	RATIO 1	RATIO 2	RATIO 3
------------------	--------------	-------------	---------	---------	---------

WELL 34/7-5

4070-001A	2510.80	0.75	0.29	0.55	0.14
4070-002A	2518.80	0.75	0.29	0.57	0.14

$$\text{RATIO 1} = \frac{A(231)}{A(231) + G(231)}$$

$$\text{RATIO 2} = \frac{E(253)}{E(253) + G(253)}$$

$$\text{RATIO 3} = \frac{A(253)}{B(231) + E(253)}$$

TABLE B.7
CARBON ISOTOPE COMPOSITIONS (‰,PDB)

JOB 4070								
GEOCHEM SAMPLE NUMBER	DEPTH/ IDENTITY	TOTAL EXTRACT WHOLE OIL	SATURATES	AROMATICS	NSO	ASPHALTENES	KEROGEN	PYROLYSATE (S2)

WELL: 34/7-5

4070-001	2510.80m	-29.40	-29.76	-29.35	-29.35	-28.63		
4070-002	2518.80m	-29.66	-29.71	-30.10	-30.20	-28.76		

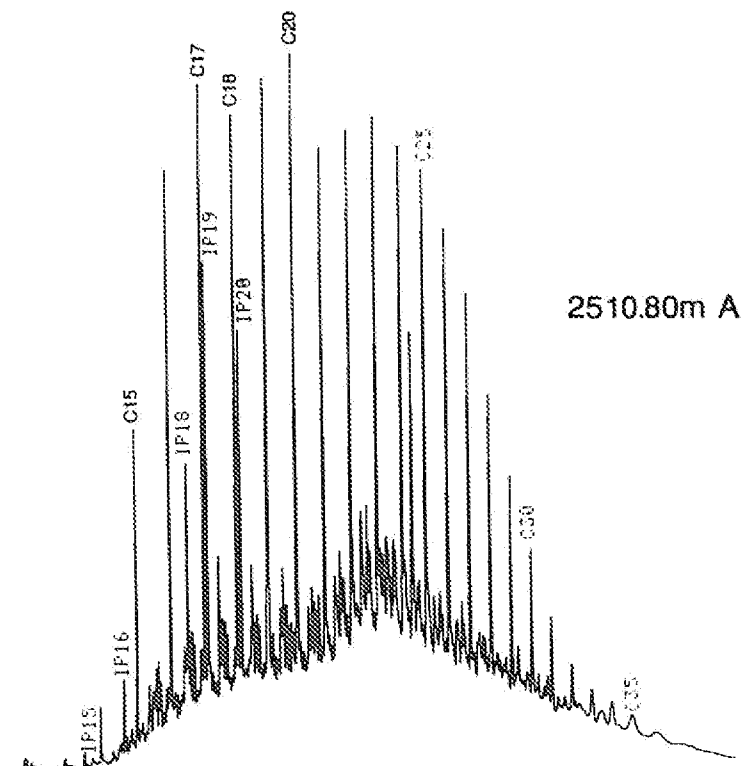
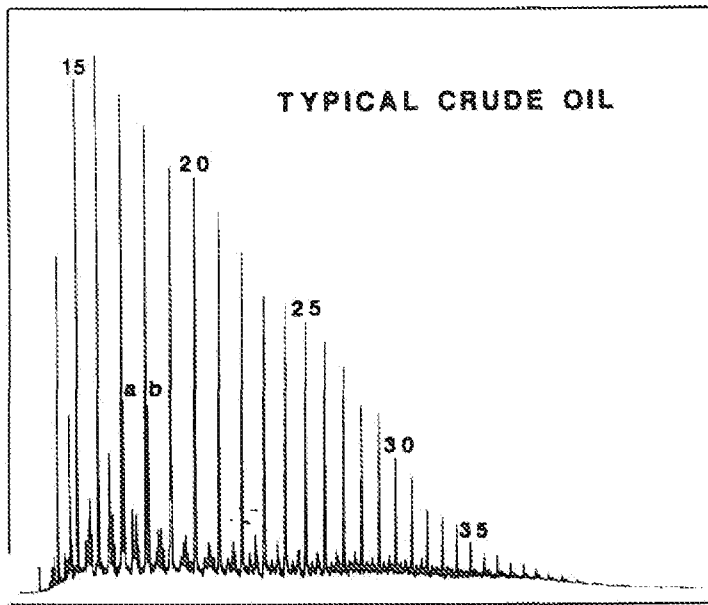
TABLE B.8
BIOMARKER MOLECULAR RATIOS

WELL 34/7-5

		Steranes (m/z 217, 218)				Terpanes (m/z 191)					
SAMPLE NUMBER	DEPTH (m)	Q/T	R/T	A/B	<u>A+B</u> E+F	B/A	<u>C</u> C+E	<u>D</u> D+C	<u>Z</u> Z+C	<u>G</u> G+H%	<u>G1</u> G1+E%
4070-001A	2510.80	0.85	0.82	1.25	0.74	0.72	0.37	0.14	0.35	57.76	0
4070-002A	2518.80	0.90	0.94	1.52	0.96	0.77	0.28	0.18	0.43	58.40	0

FIGURE B1.1 C₁₅+ SATURATES CHROMATOGRAMS

WELL 34/7-5



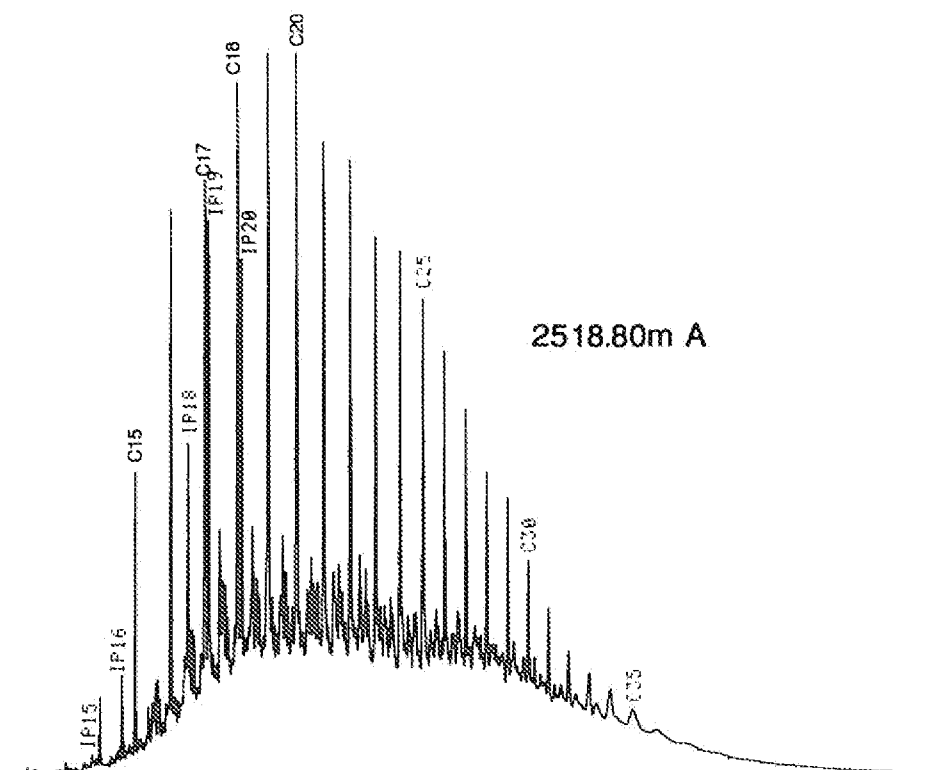
a ~ PRISTANE

b ~ PHYTANE

CARBON NUMBERS OF NORMAL PARAFFINS INDICATED (20-nC₂₀)

FIGURE B1.2 C₁₅+ SATURATES CHROMATOGRAMS

WELL 34/7-5



a = PRISTANE
b = PHYTANE

CARBON NUMBERS OF NORMAL PARAFFINS INDICATED (20 - nC₂₀)

FIGURE B2.1 C₁₅+ AROMATIC CHROMATOGRAMS

WELL 34/7-5

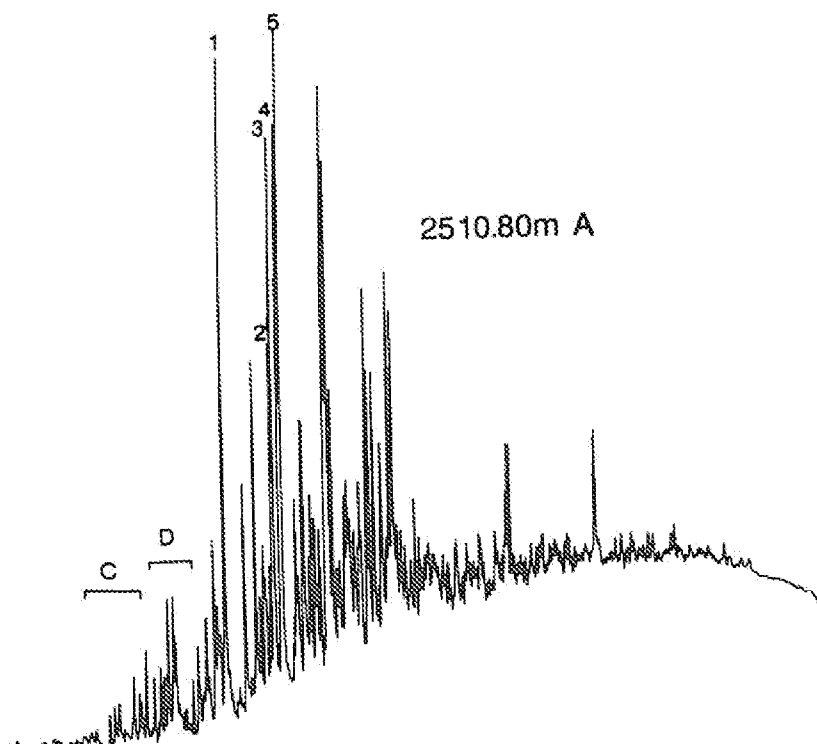
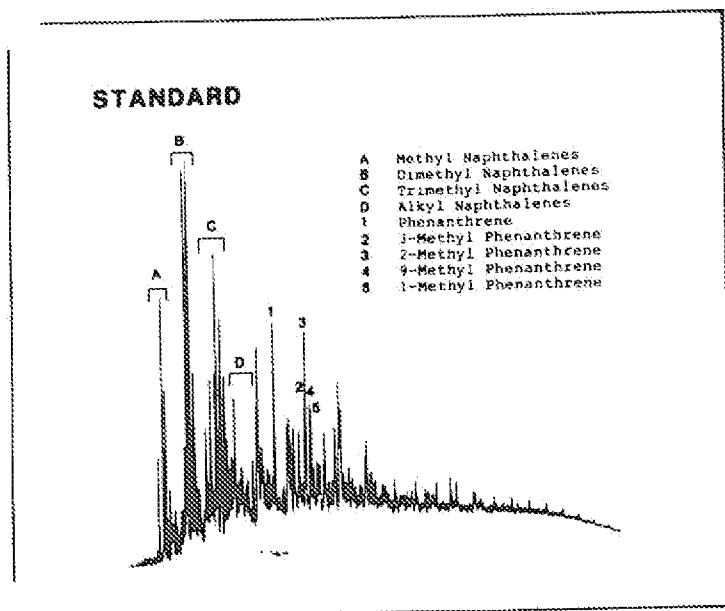
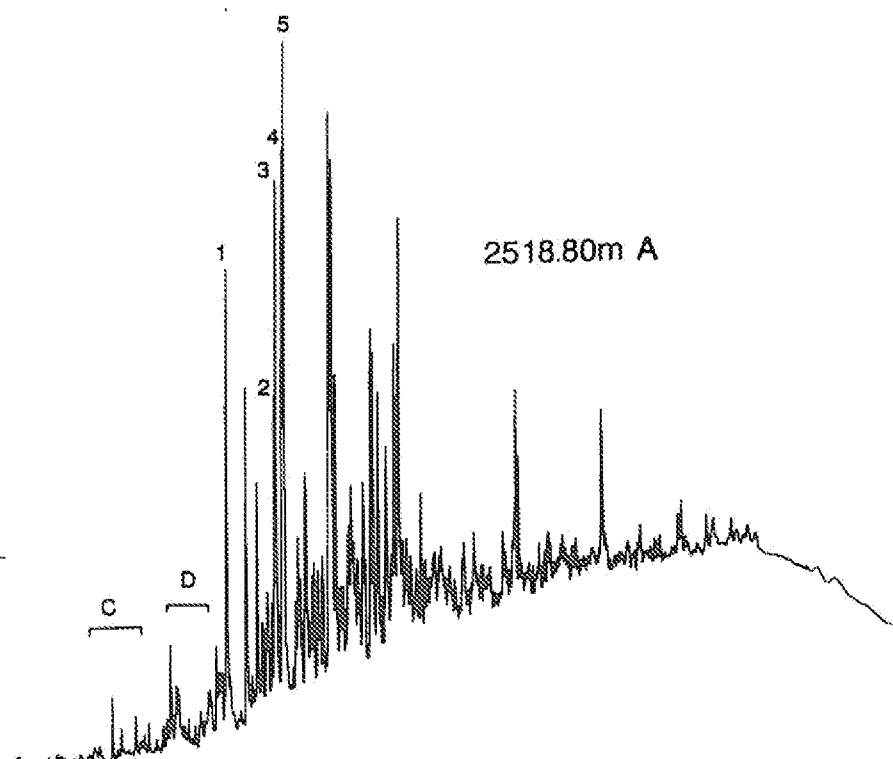


FIGURE B2.2

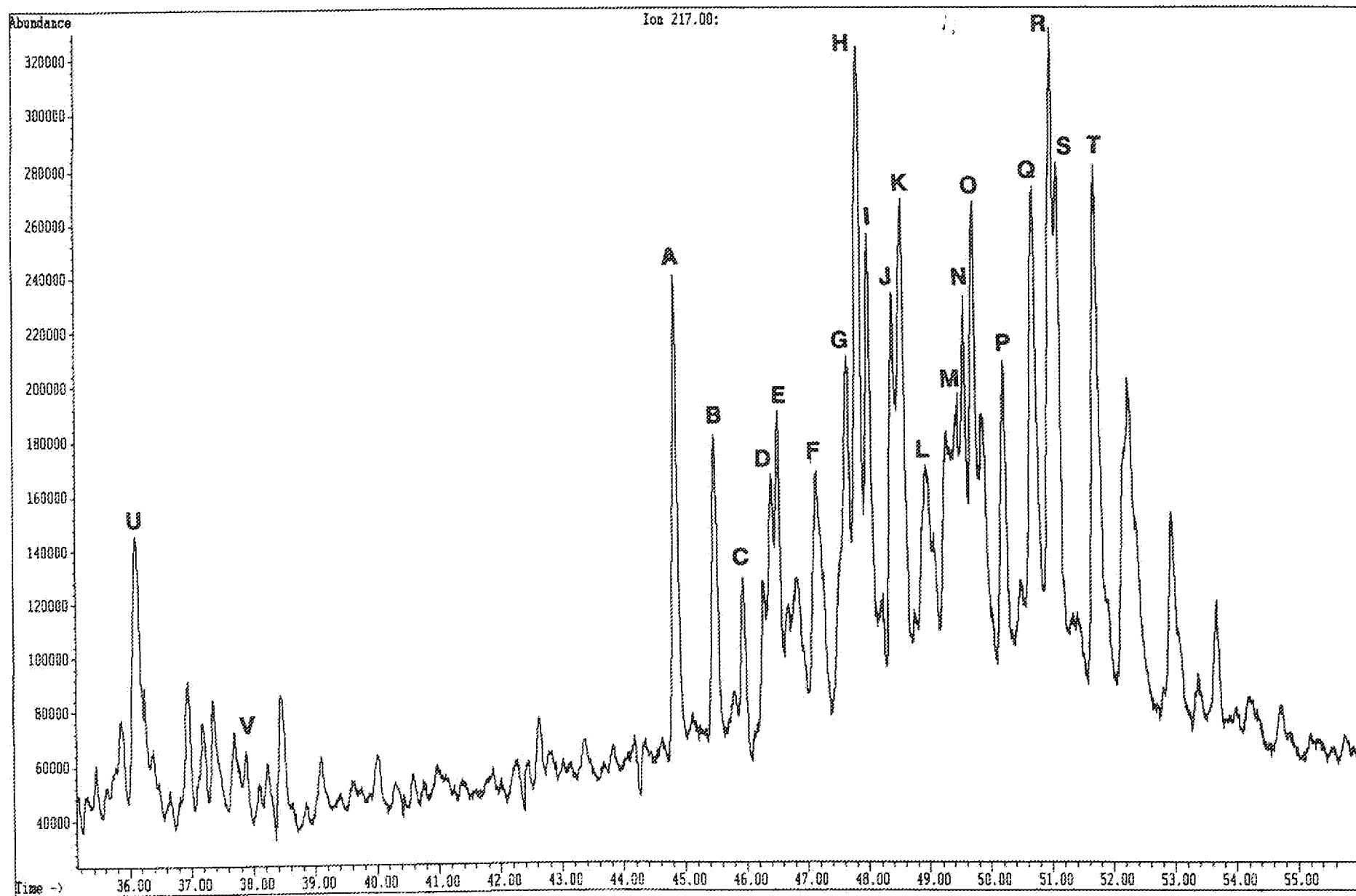
C₁₅+ AROMATIC CHROMATOGRAMS

WELL 34/7-5



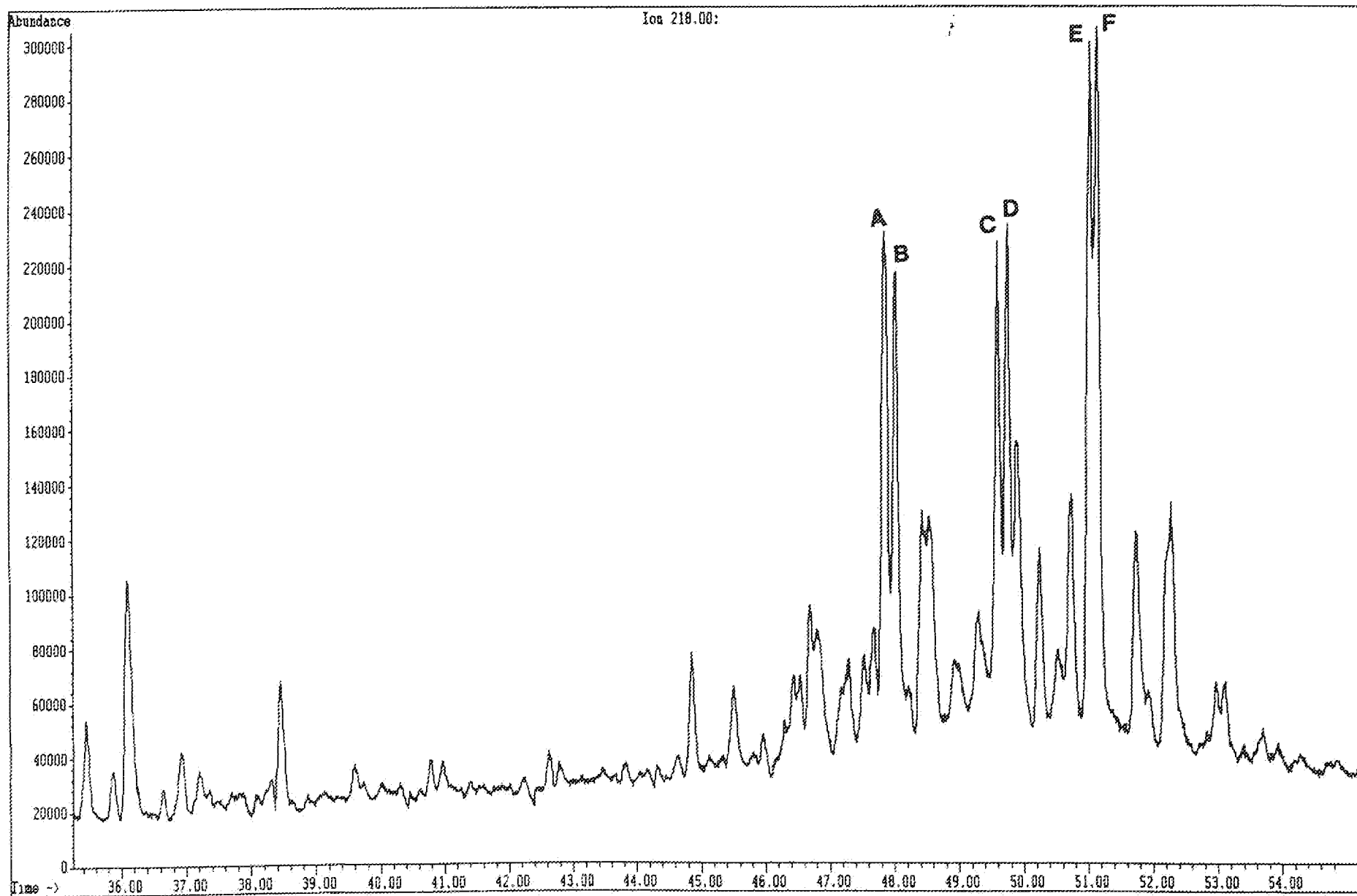
File: D:\CHEMPC\DATA\7101007.D
Operator:
Date Acquired: 5:15 pm
Method File Name: B10M.M
Sample Name: 4070-001A
Misc Info:
Bottle Number: 71

Figure: B3.1a
Well: 34/7-5
Depth: 2510.80m



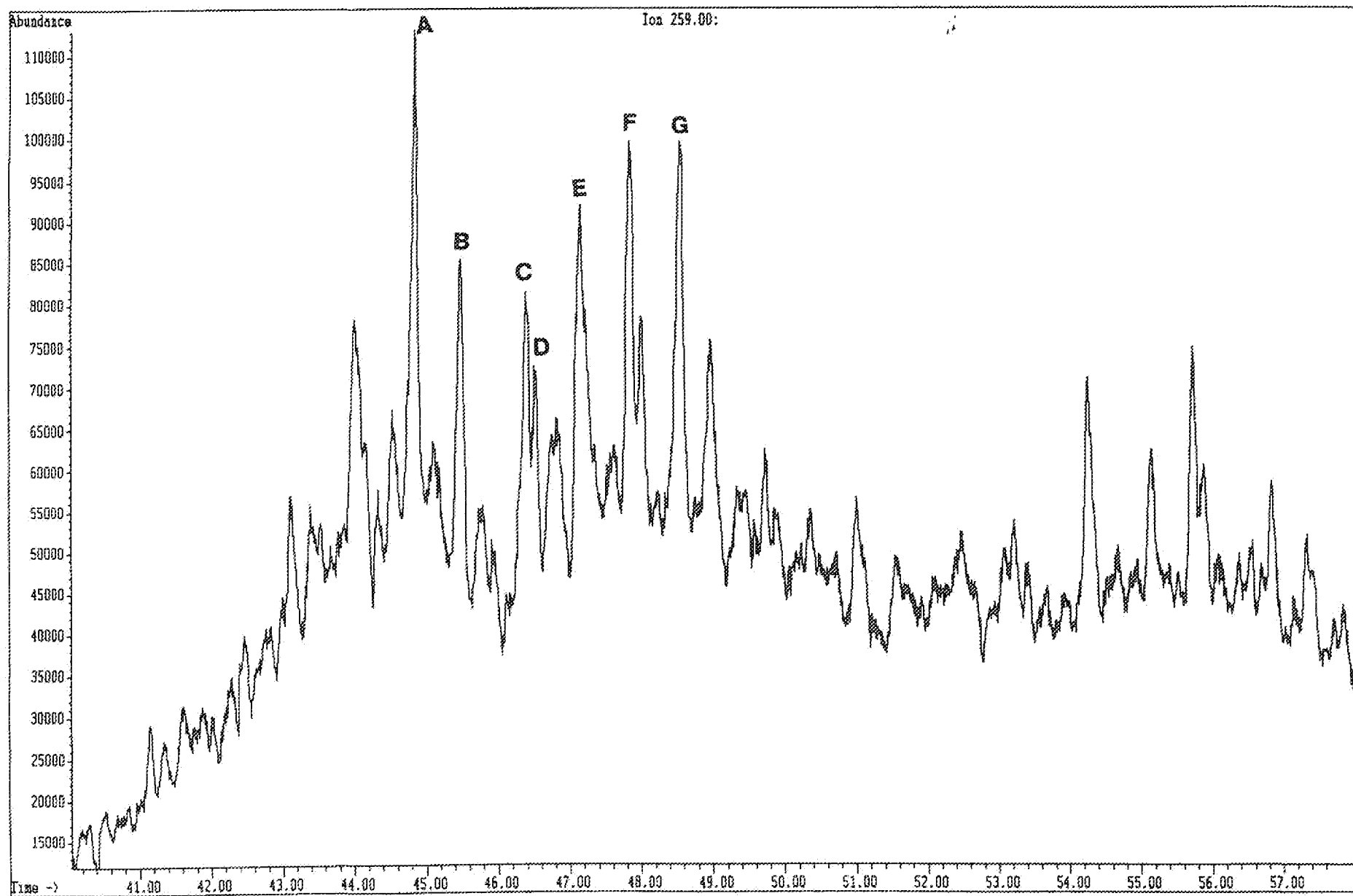
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Operator:
Date Acquired: 5:15 pm
Method File Name: B10M.M
Sample Name: 4070-001A
Misc Info:
Bottle Number: 71

Figure: B3.1b
Well: 34/7-5
Depth: 2510.80m



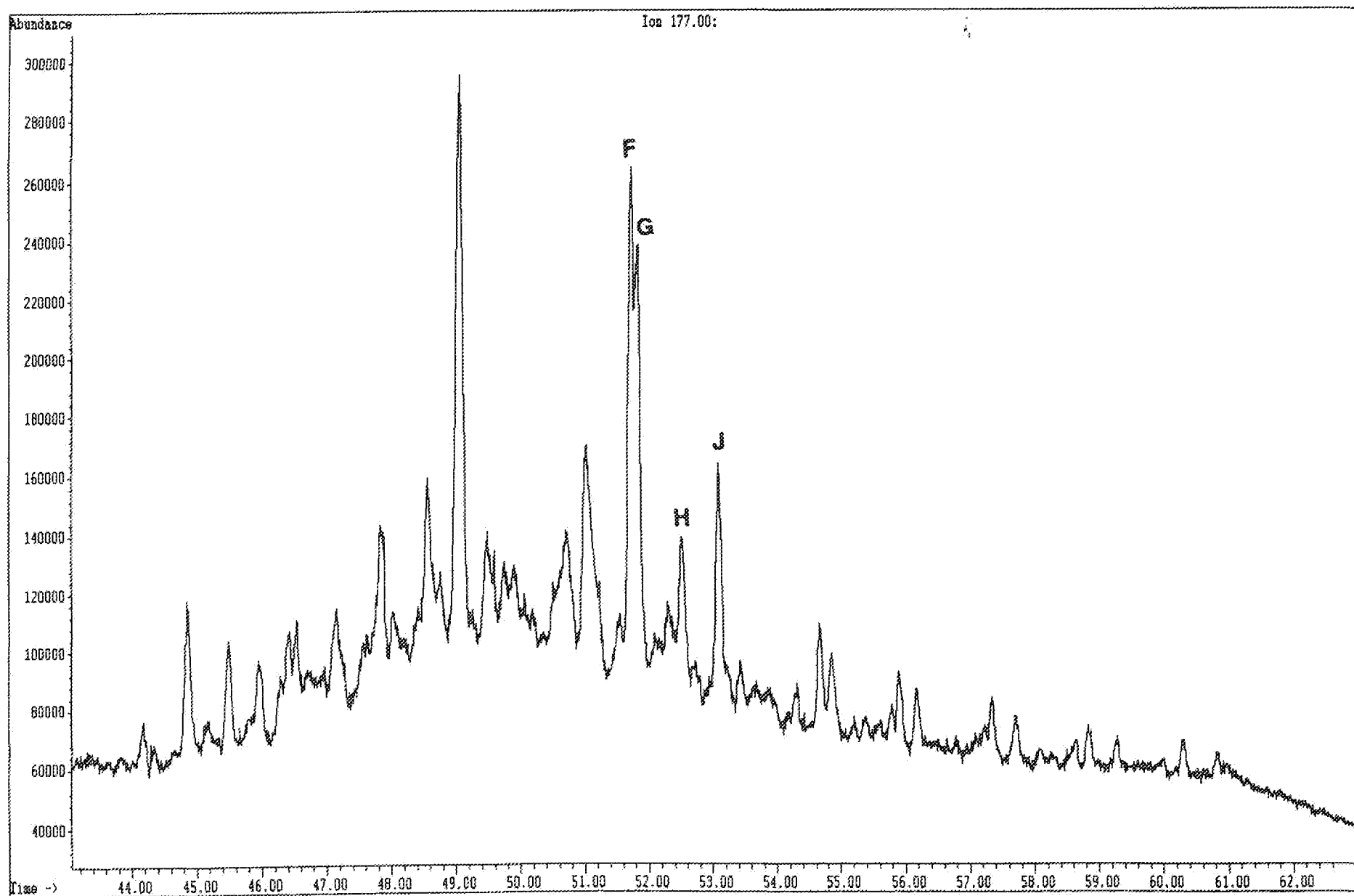
File: D:\CHEMPC\DATA\7101007.D
Operator:
Date Acquired: 5:15 pm
Method File Name: B10M.M
Sample Name: 4070-001A
Misc Info:
Bottle Number: 71

Figure: B3.1c
Well: 34/7-5
Depth: 2510.80m



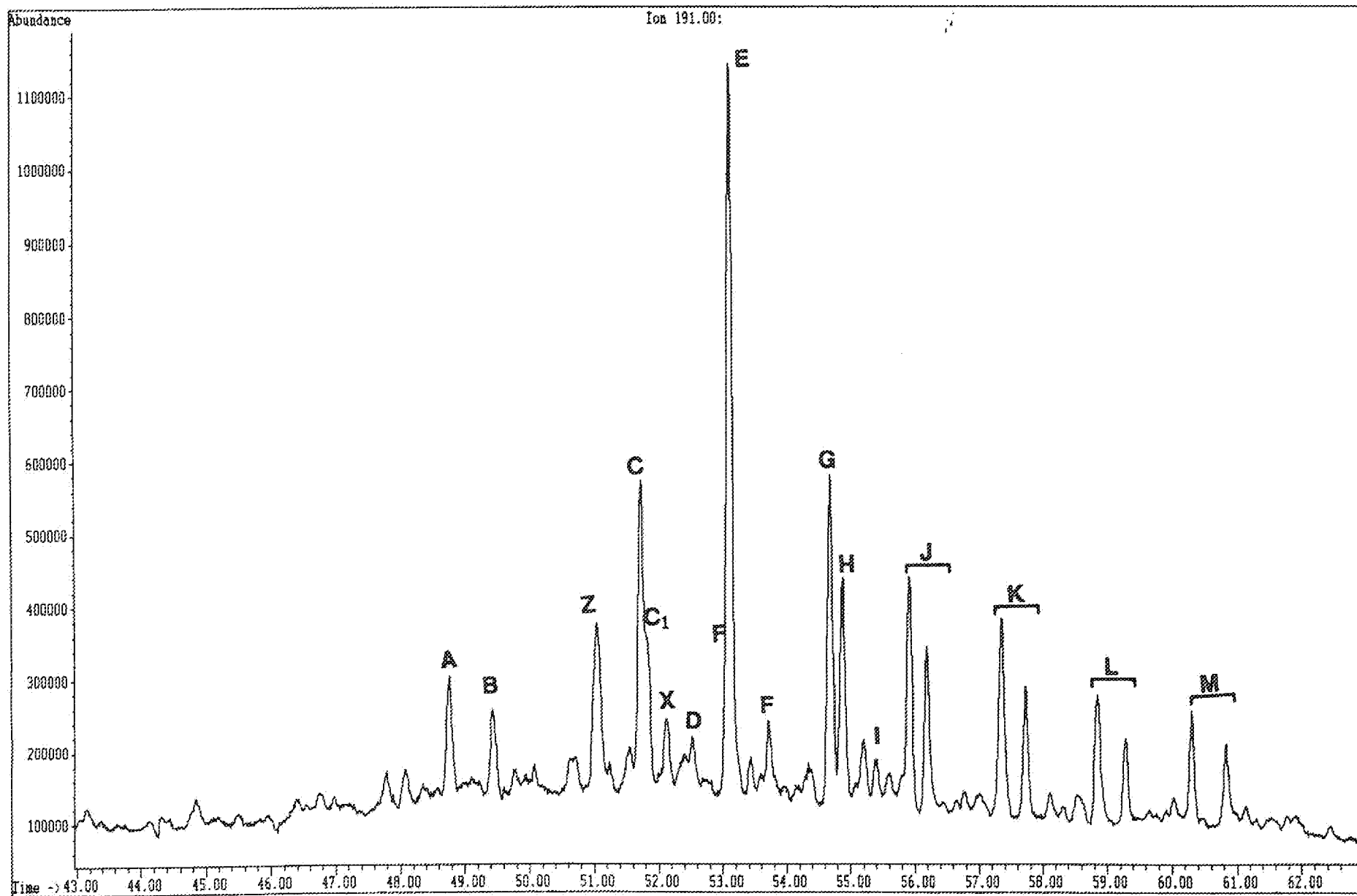
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Operator:
Date Acquired: 5:15 pm
Method File Name: B10M.M
Sample Name: 4070-001A
Misc Info:
Bottle Number: 71

Figure: B3.1d
Well: 34/7-5
Depth: 2510.80m



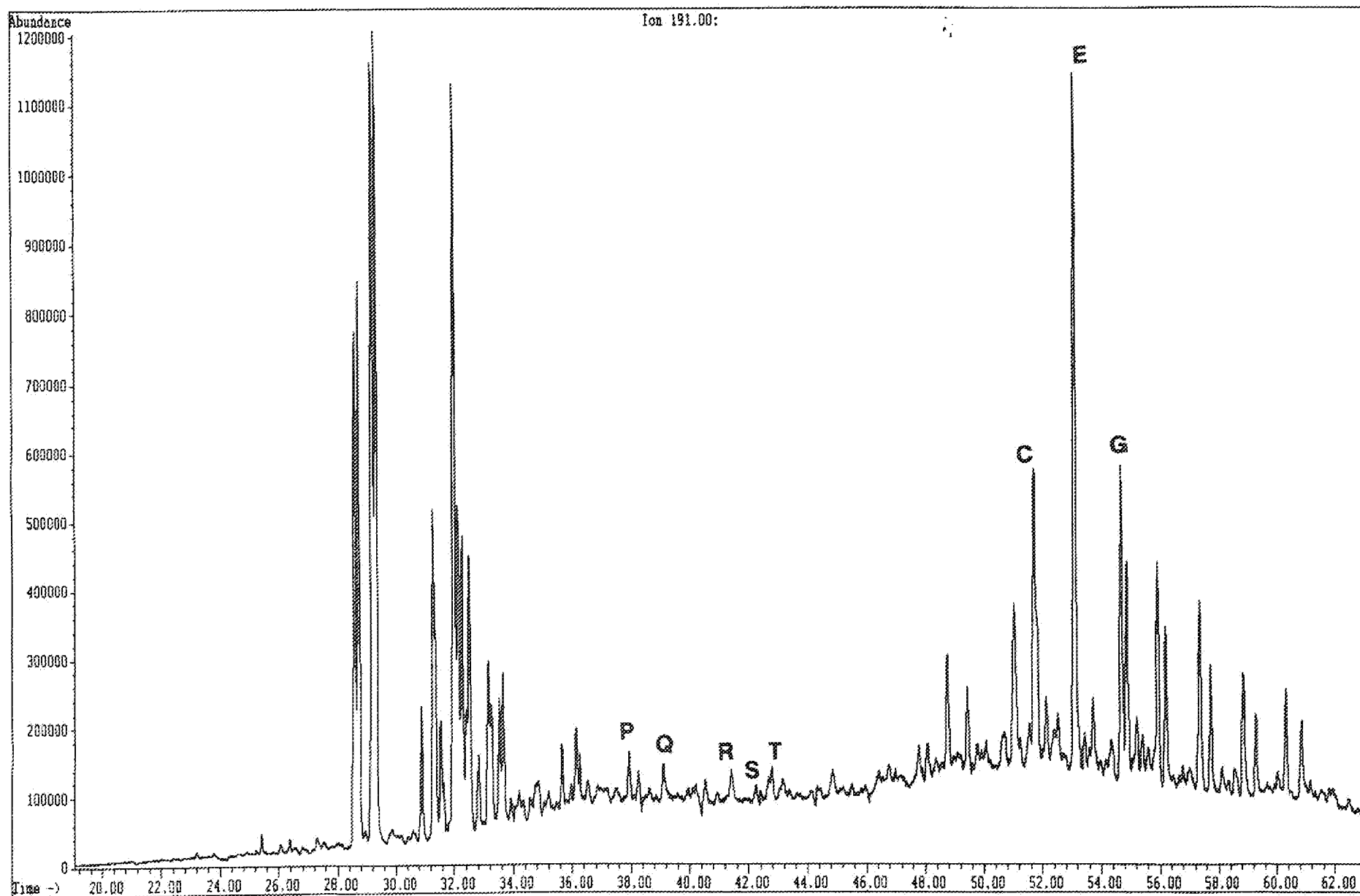
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Operator:
Date Acquired: 5:15 pm
Method File Name: B10M.M
Sample Name: 4070-001A
Misc Info:
Bottle Number: 71

Figure: B3.1e
Well: 34/7-5
Depth: 2510.80m



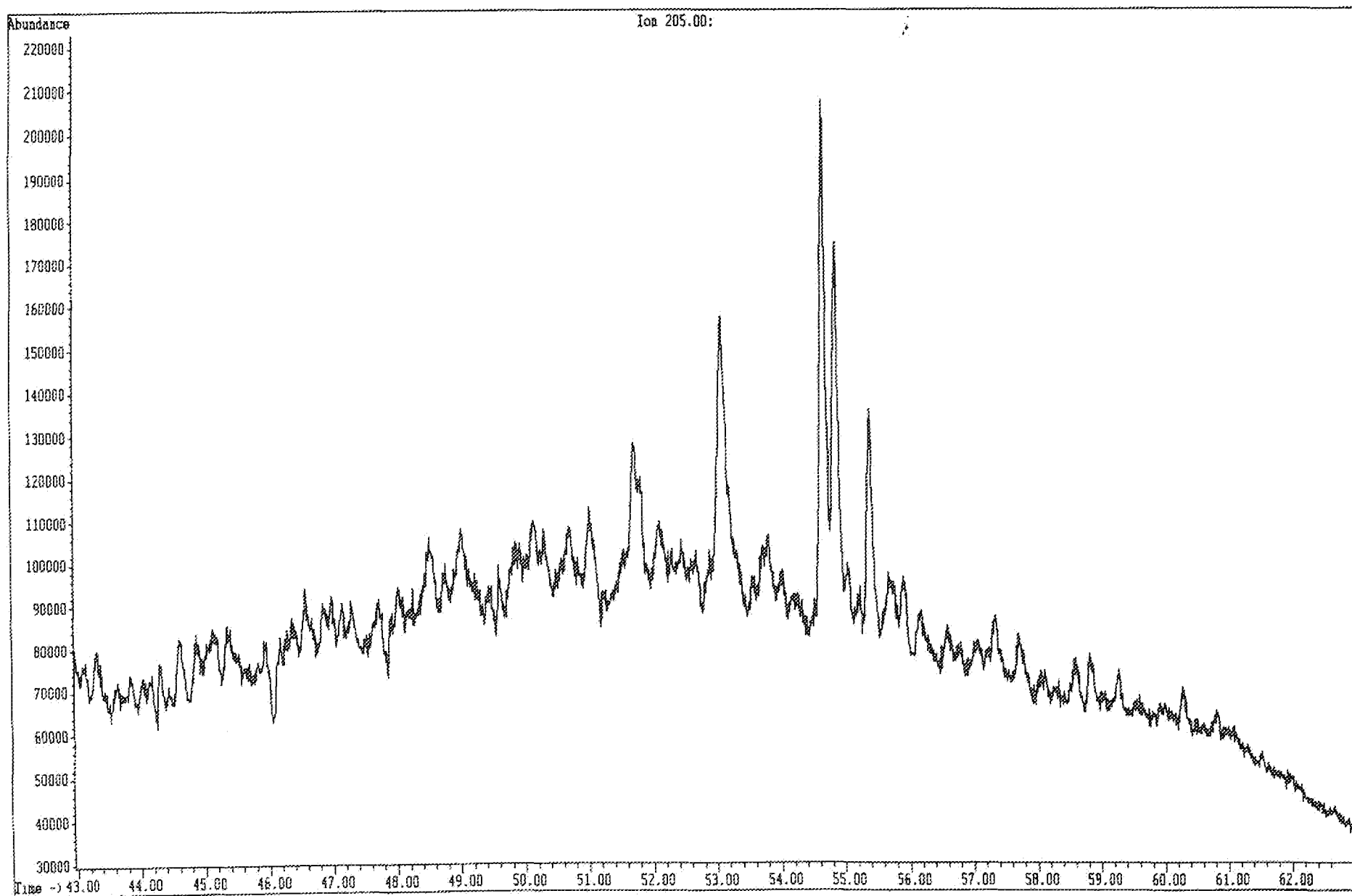
File: D:\CHEMPC\DATA\7101007.D
Operator:
Date Acquired: 5:15 pm
Method File Name: BIOM.M
Sample Name: 4070-001A
Misc Info:
Bottle Number: 71

Figure: B3.1f
Well: 34/7-5
Depth: 2510.80m



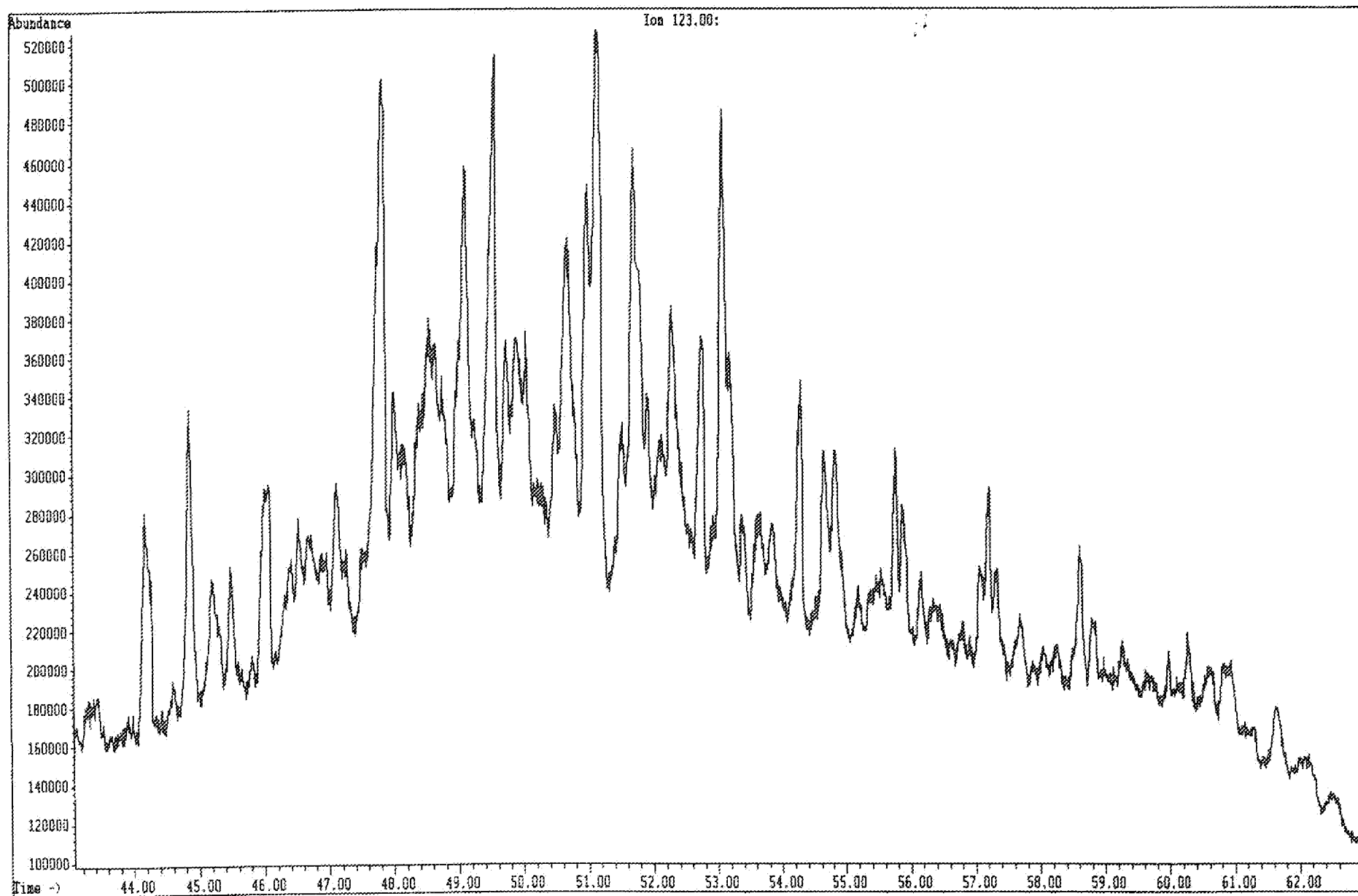
File: D:\CHEMPC\DATA\7101007.D
Operator:
Date Acquired: 5:15 pm
Method File Name: BIOM.M
Sample Name: 4070-001A
Misc Info:
Bottle Number: 71

Figure: B3.1g
Well: 34/7-5
Depth: 2510.80m



File: D:\CHEMPC\DATA\7101007.D
Operator:
Date Acquired: 5:15 pm
Method File Name: BIOM.M
Sample Name: 4070-001A
Misc Info:
Bottle Number: 71

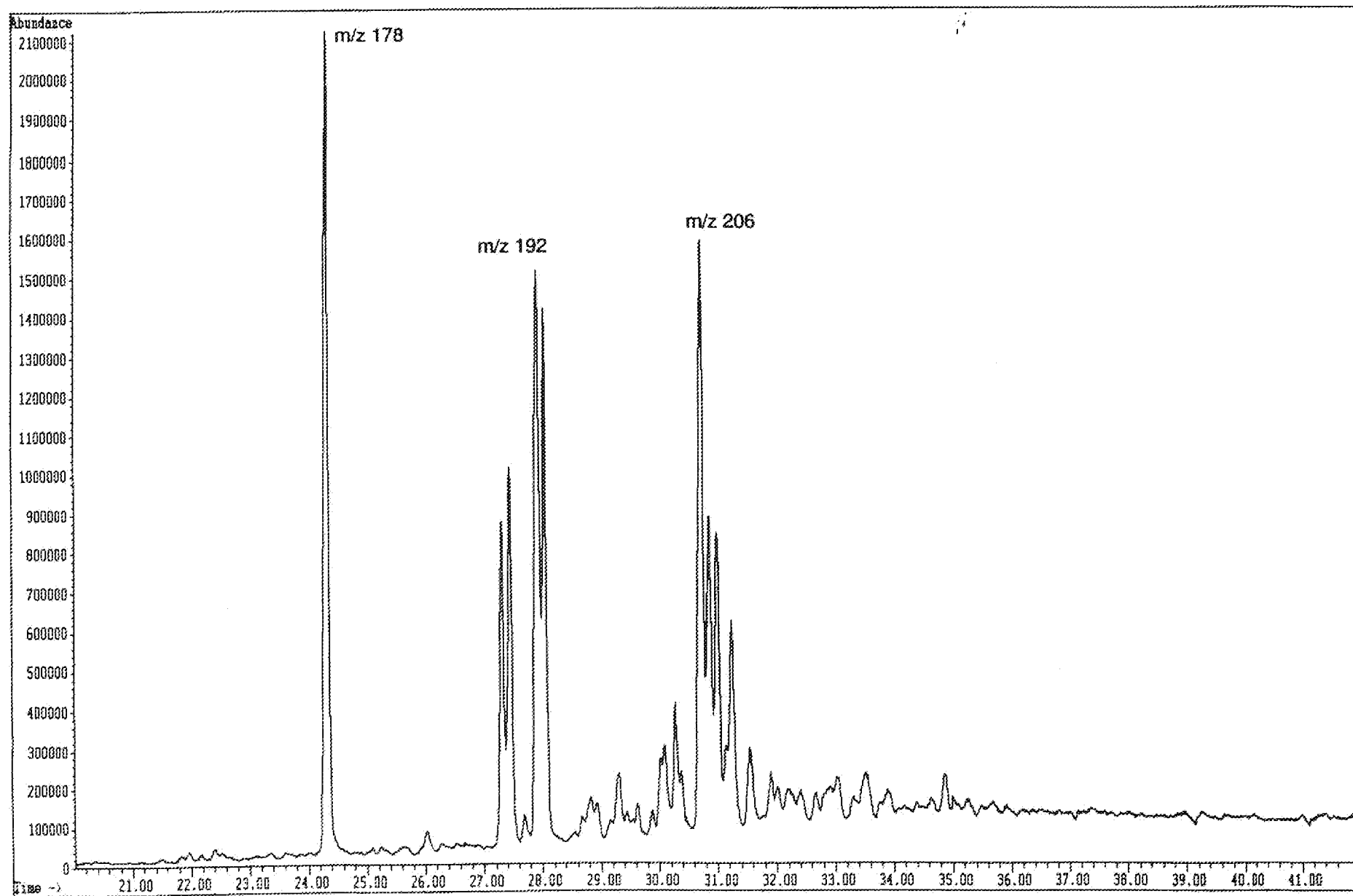
Figure: B3.1h
Well: 34/7-5
Depth: 2510.80m



File: D:\CHEMPC\DATA\5701006.D
Operator:
Date Acquired: 0:56 am
Method File Name: B10MY.M
Sample Name: 4070-001A
Misc Info:
Bottle Number: 57

Figure: B3.1i
Well: 34/7-5
Depth: 2510.80m

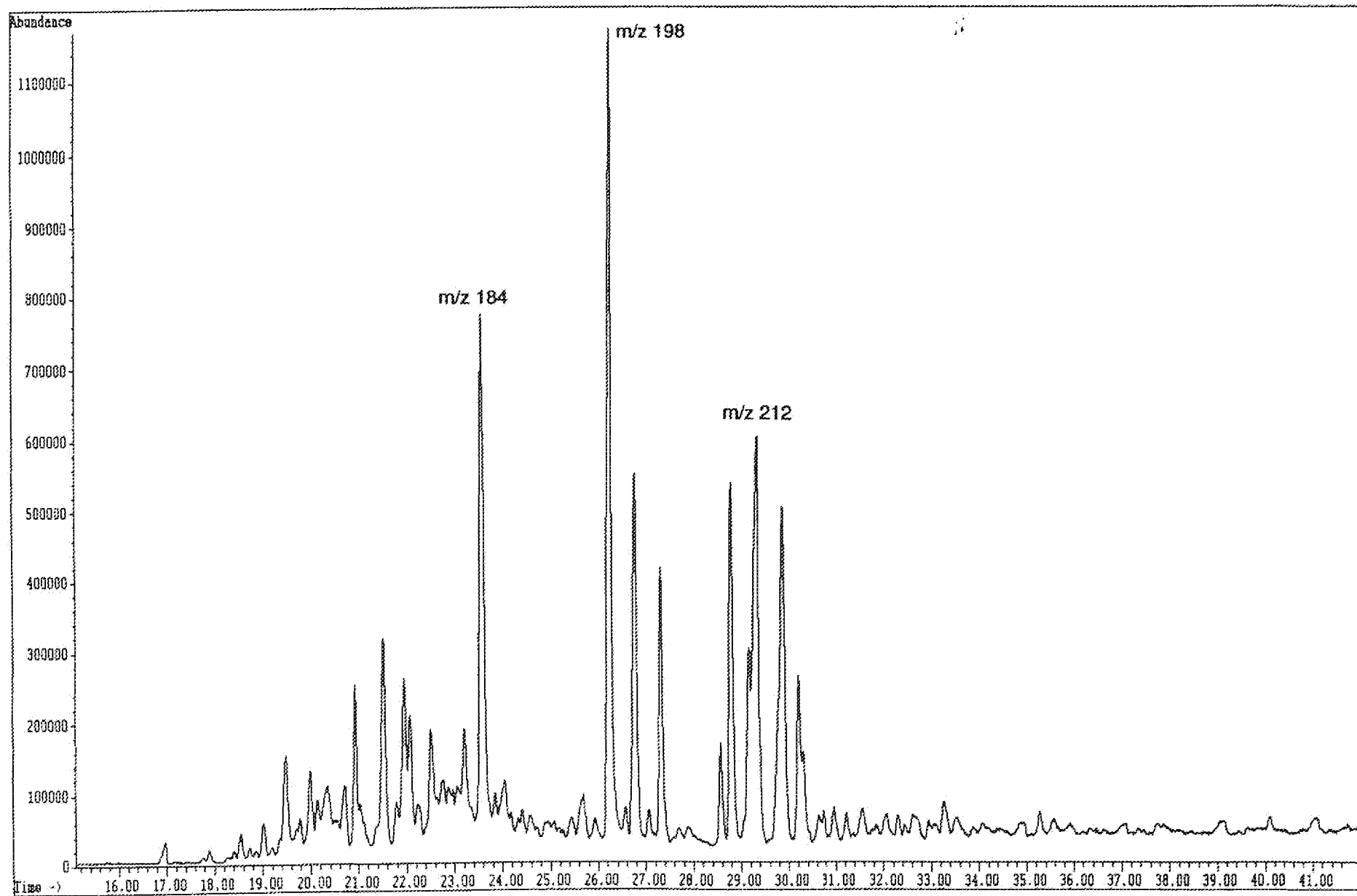
Phenanthrenes



File: D:\CHEMPC\DATA\5701006.D
Operator:
Date Acquired: 0:56 am
Method File Name: B10MY.M
Sample Name: 4070-001A
Misc Info:
Bottle Number: 57

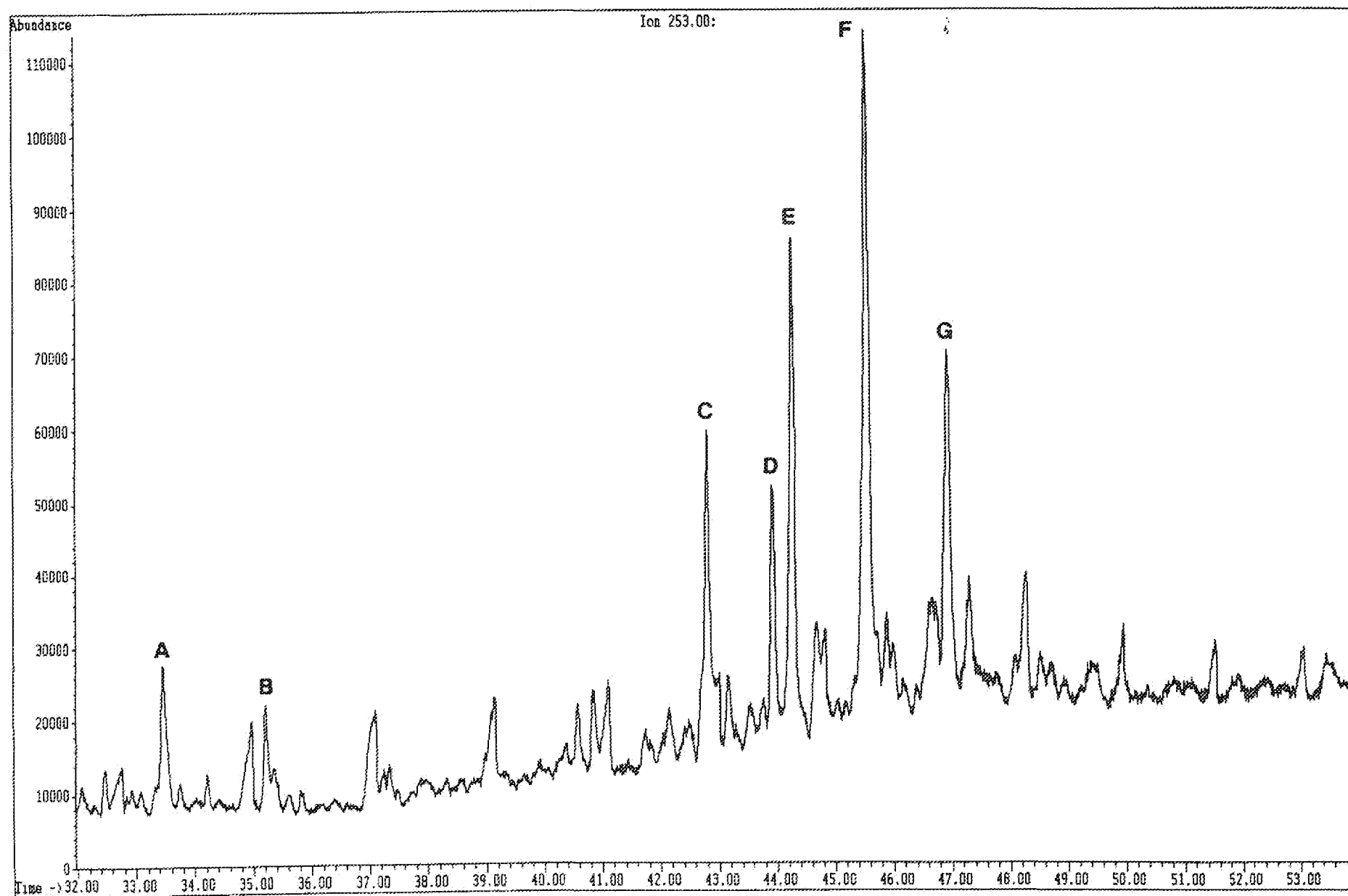
Figure: B3.1j
Well: 34/7-5
Depth: 2510.80m

Dibenzothiophenes



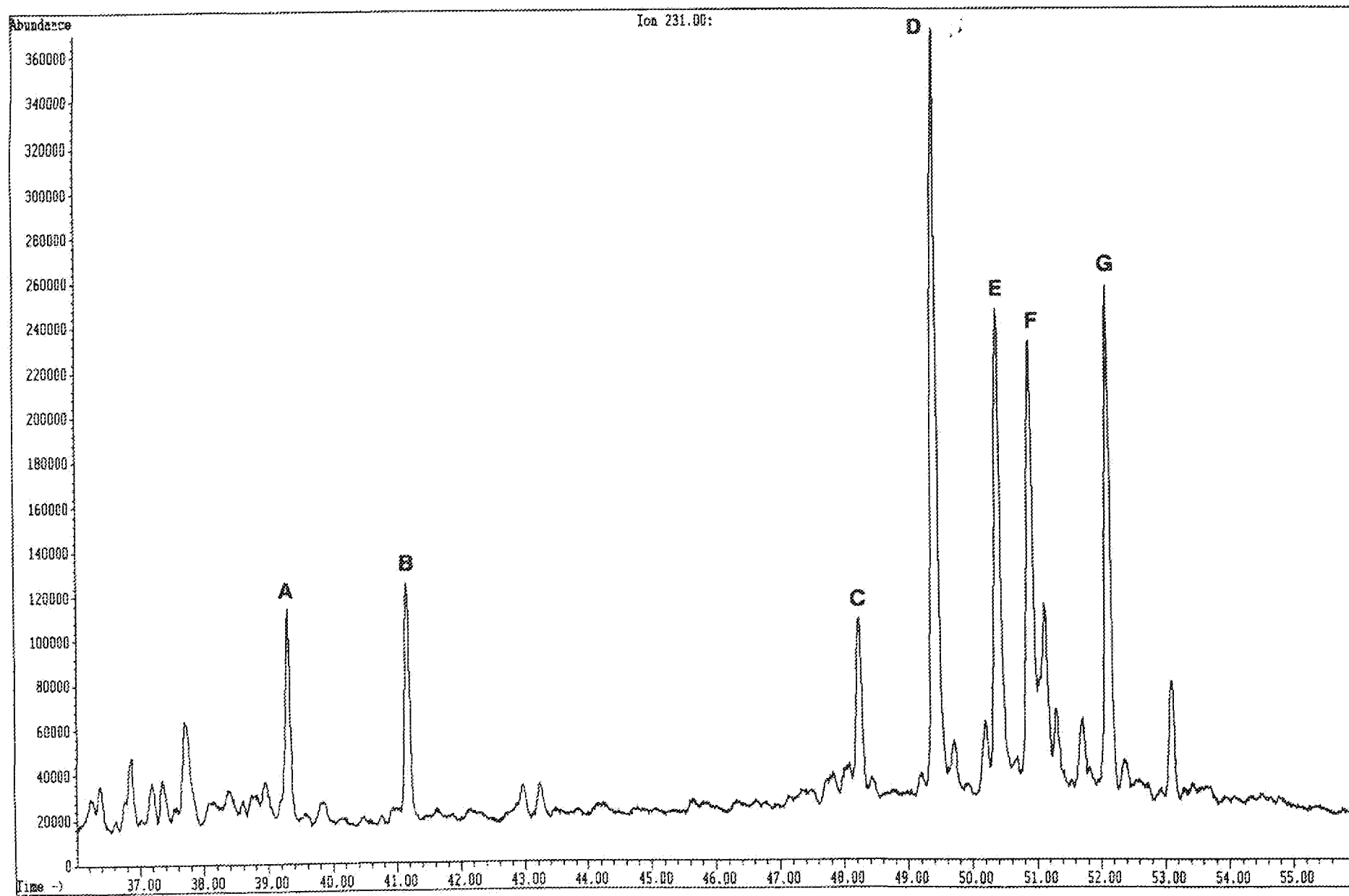
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Operator:
Date Acquired: 0:56 am
Method File Name: BIOMY.M
Sample Name: 4070-001A
Misc Info:
Bottle Number: 57

Figure: B3.1k
Well: 34/7-5
Depth: 2510.80m



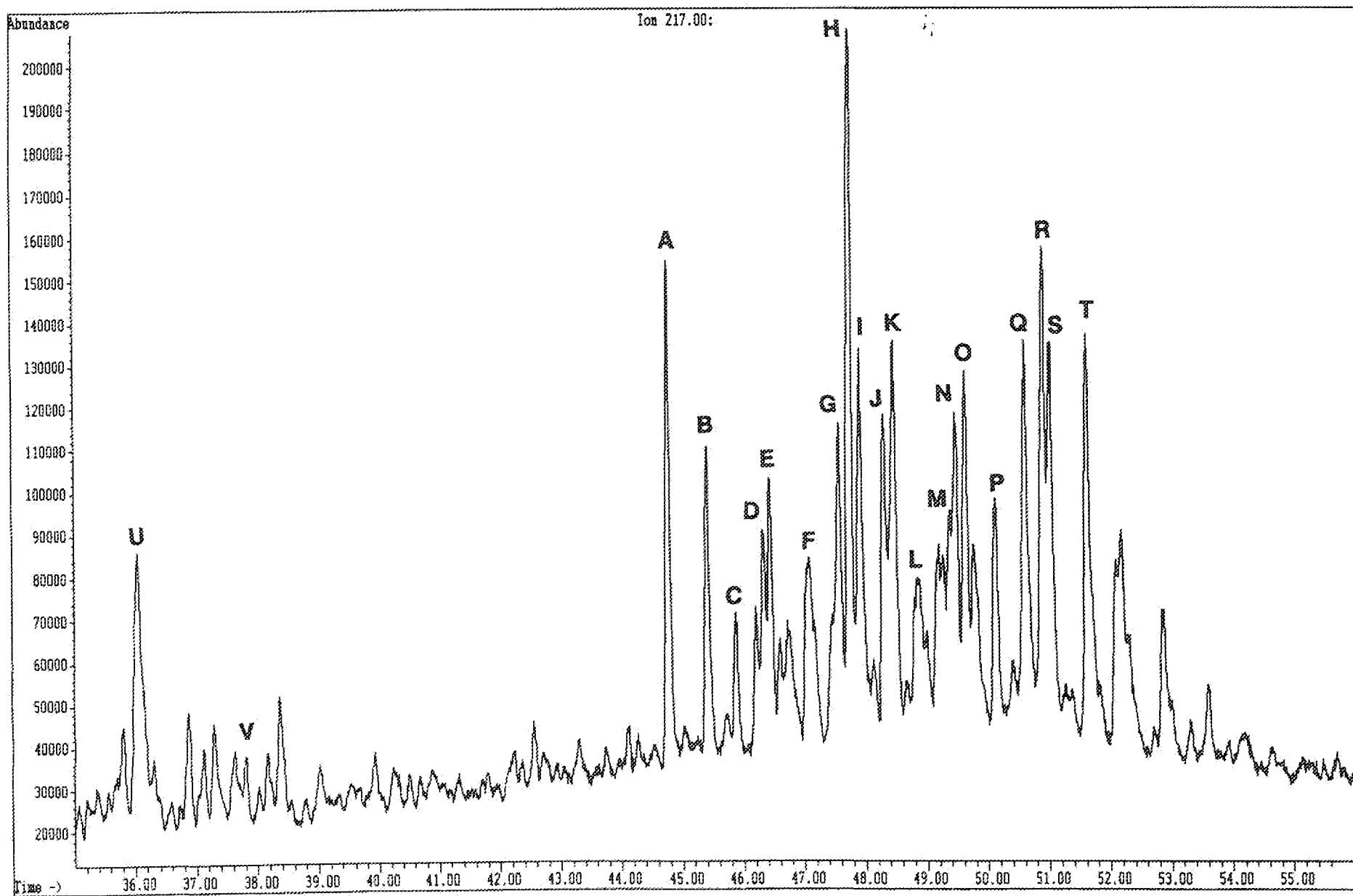
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Operator:
Date Acquired: 0:56 am
Method File Name: BIOMY.M
Sample Name: 4070-001A
Misc Info:
Bottle Number: 57

Figure: B3.11
Well: 34/7-5
Depth: 2510.80m



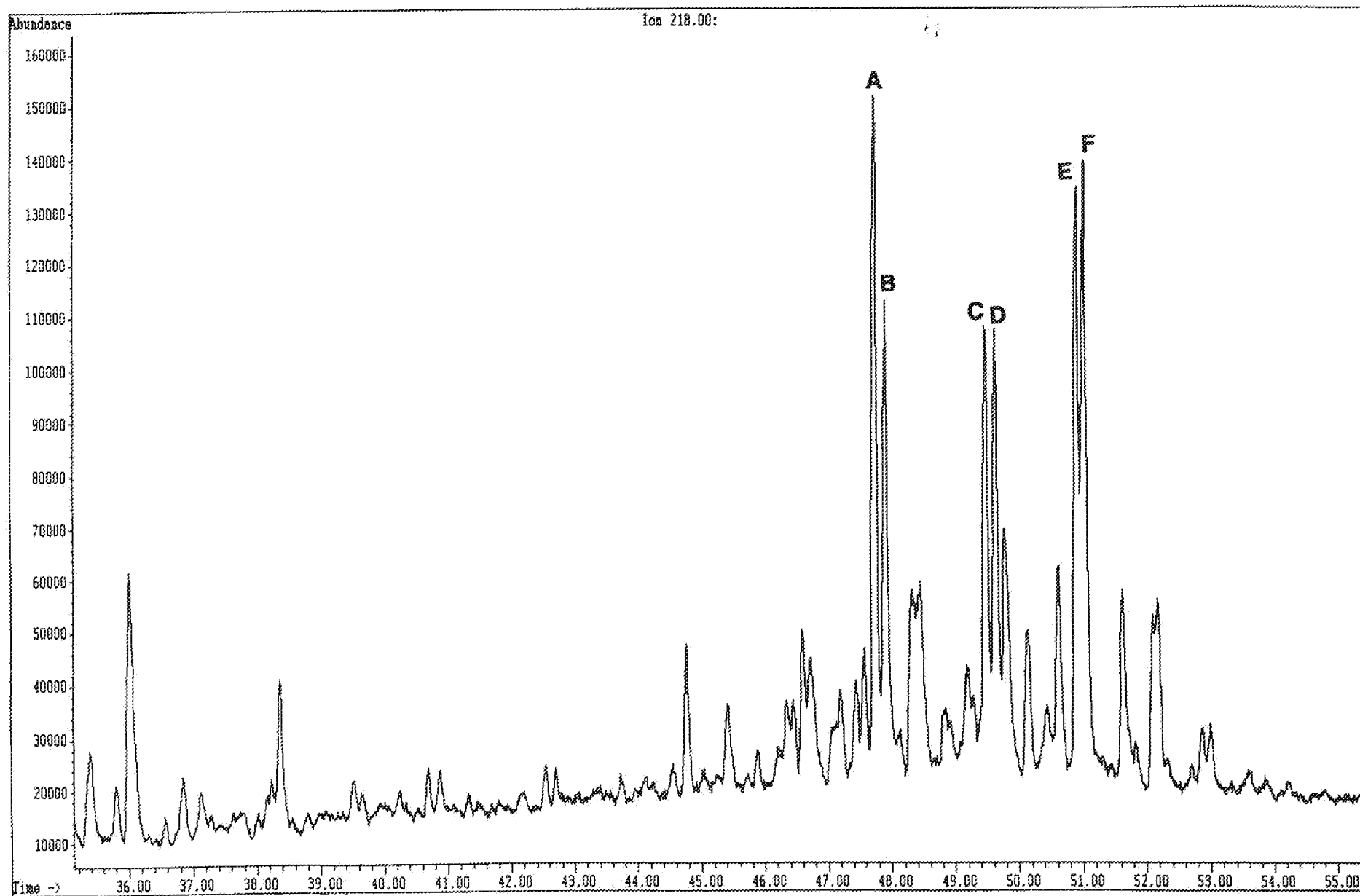
File: D:\CHEMPC\DATA\7201008.D
Operator:
Date Acquired: 6:25 pm
Method File Name: B10M.M
Sample Name: 4070-002A
Misc Info:
Bottle Number: 72

Figure: B3.2a
Well: 34/7-5
Depth: 2518.80m



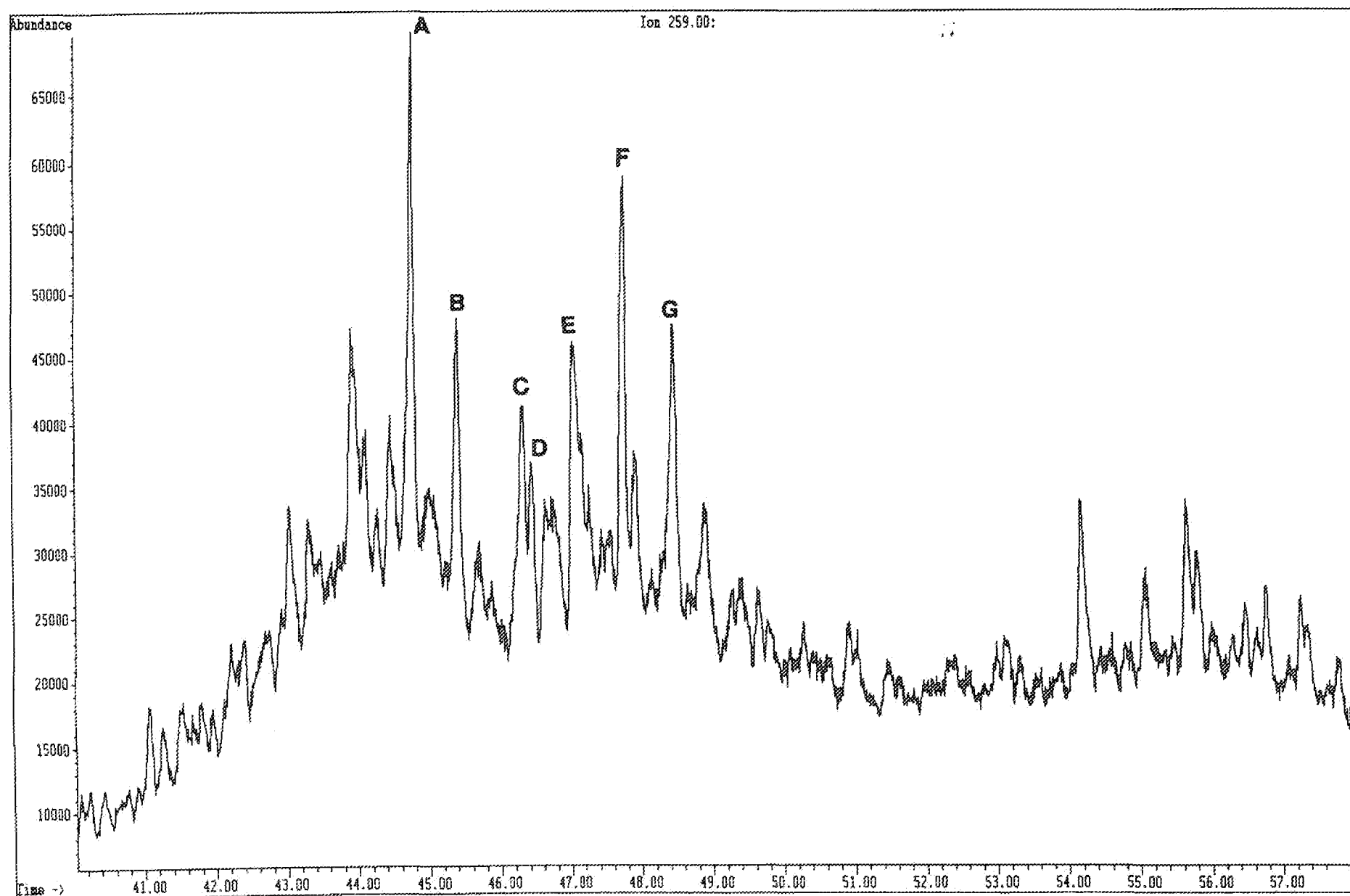
File: D:\CHEMPC\DATA\7201008.D
Operator:
Date Acquired: 6:25 pm
Method File Name: B10M.M
Sample Name: 4070-002A
Misc Info:
Bottle Number: 72

Figure: B3.2b
Well: 34/7-5
Depth: 2518.80m



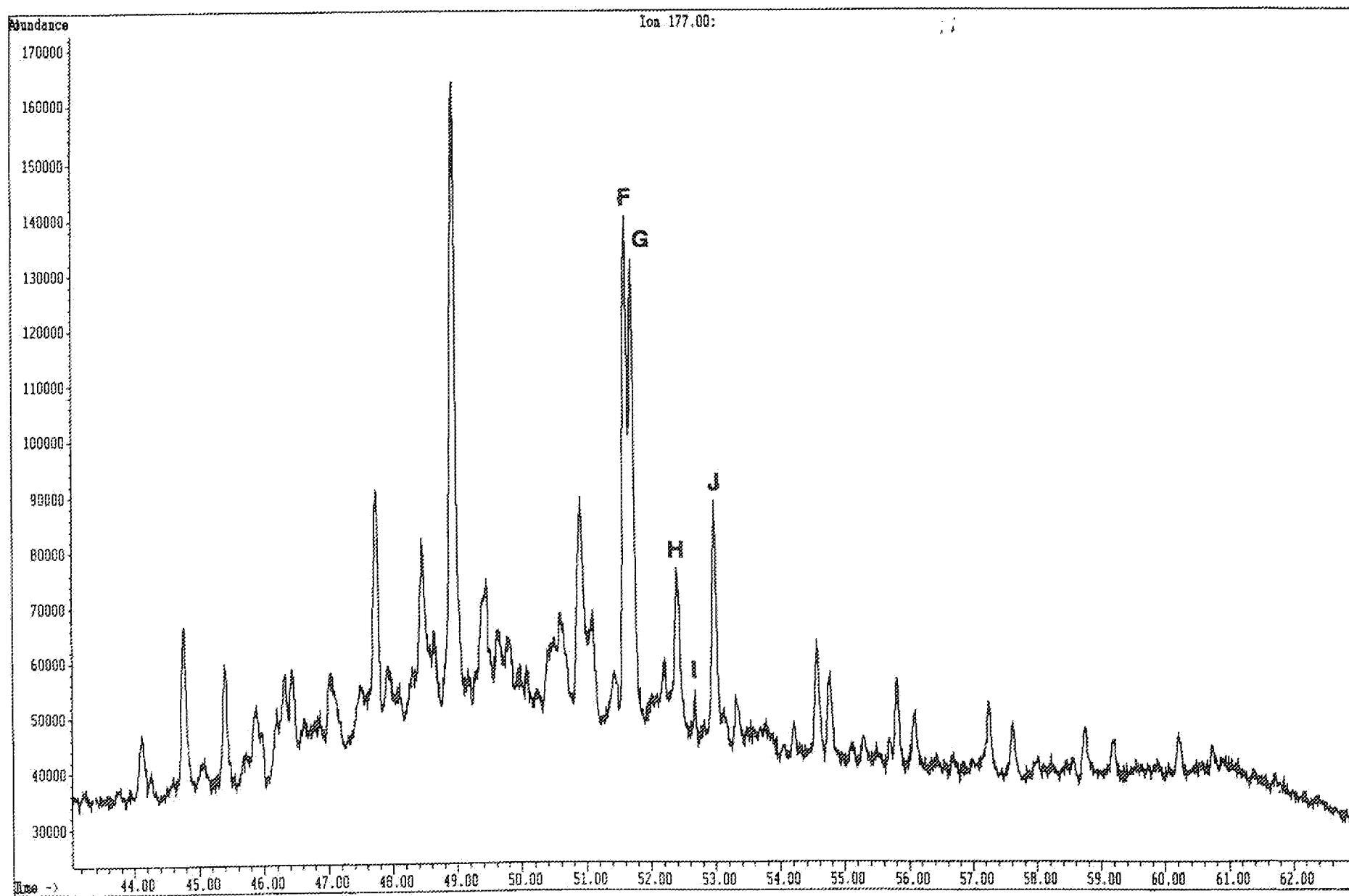
File: D:\CHEMPC\DATA\7201008.D
Operator:
Data Acquired: 6:25 pm
Method File Name: B10M.M
Sample Name: 4070-002A
Misc Info:
Bottle Number: 72

Figure: B3.2c
Well: 34/7-5
Depth: 2518.80m



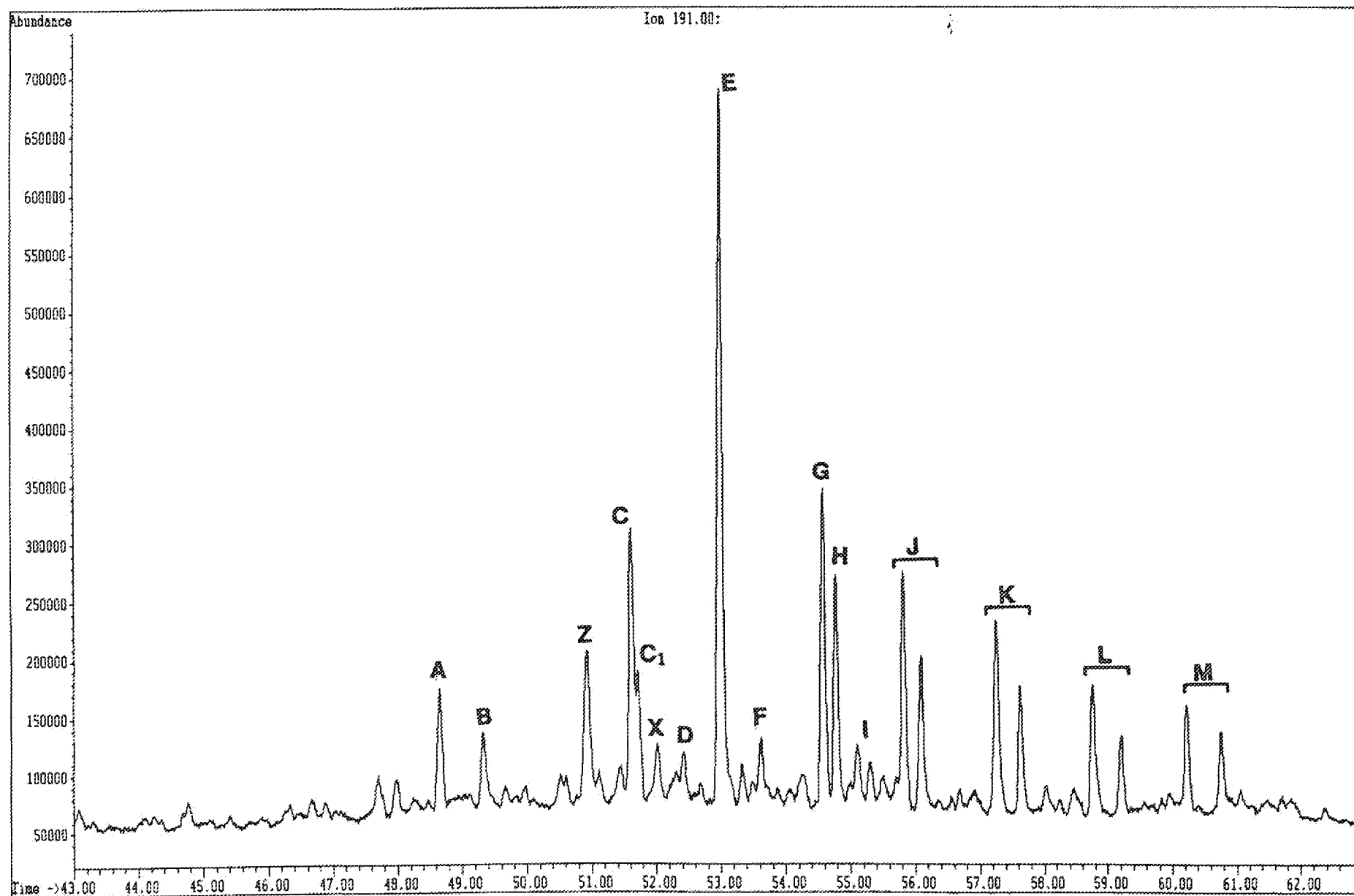
File: D:\CHEMPC\DATA\7201008.D
Operator:
Date Acquired: 6:25 pm
Method File Name: B10M.M
Sample Name: 4070-002A
Misc Info:
Bottle Number: 72

Figure: B3.2d
Well: 34/7-5
Depth: 2518.80m



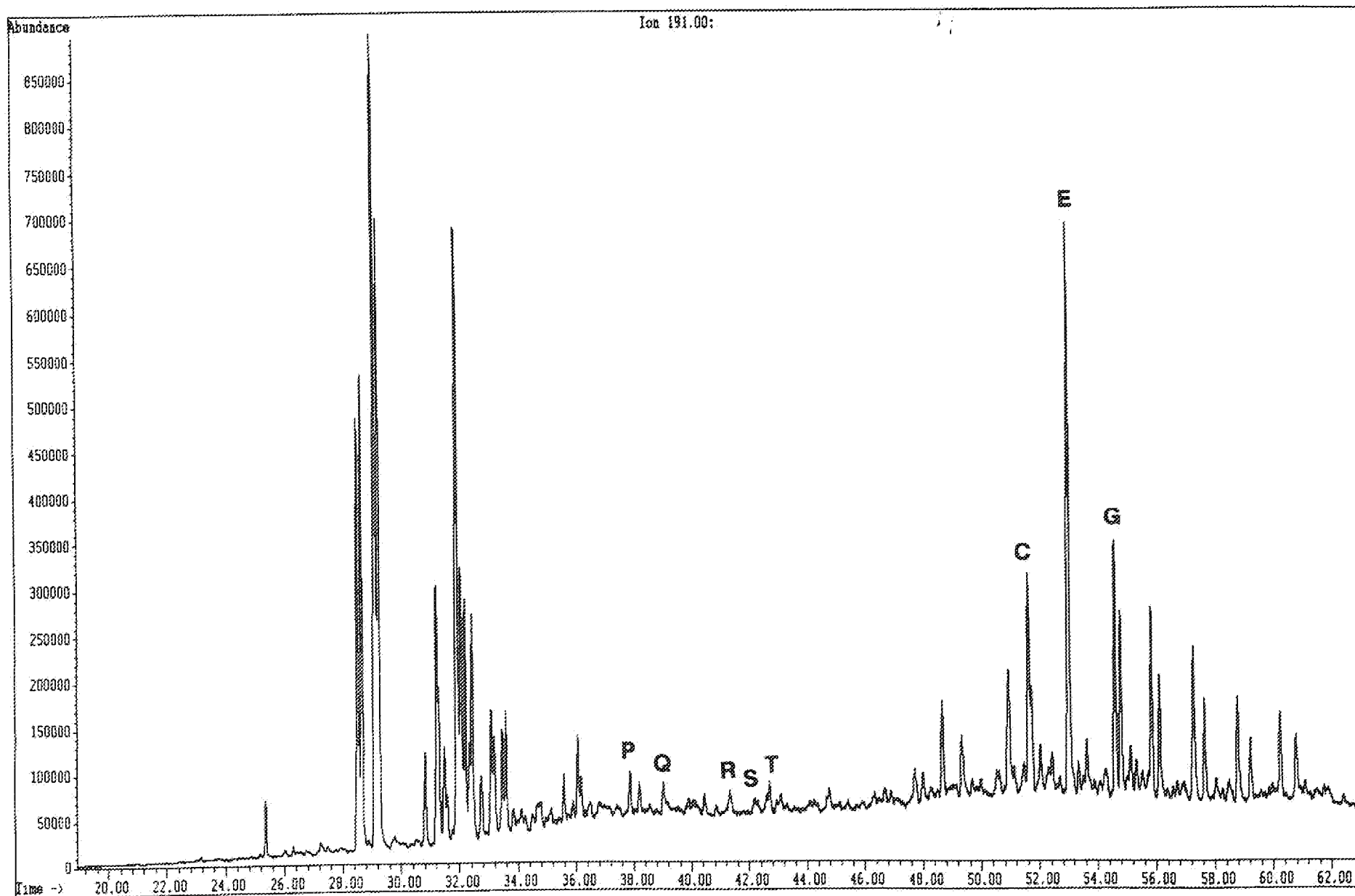
File: D:\CHEMPC\DATA\7201008.D
Operator:
Date Acquired: 6:25 pm
Method File Name: BIOM.M
Sample Name: 4070-002A
Misc Info:
Bottle Number: 72

Figure: B3.2e
Well: 34/7-5
Depth: 2518.80m



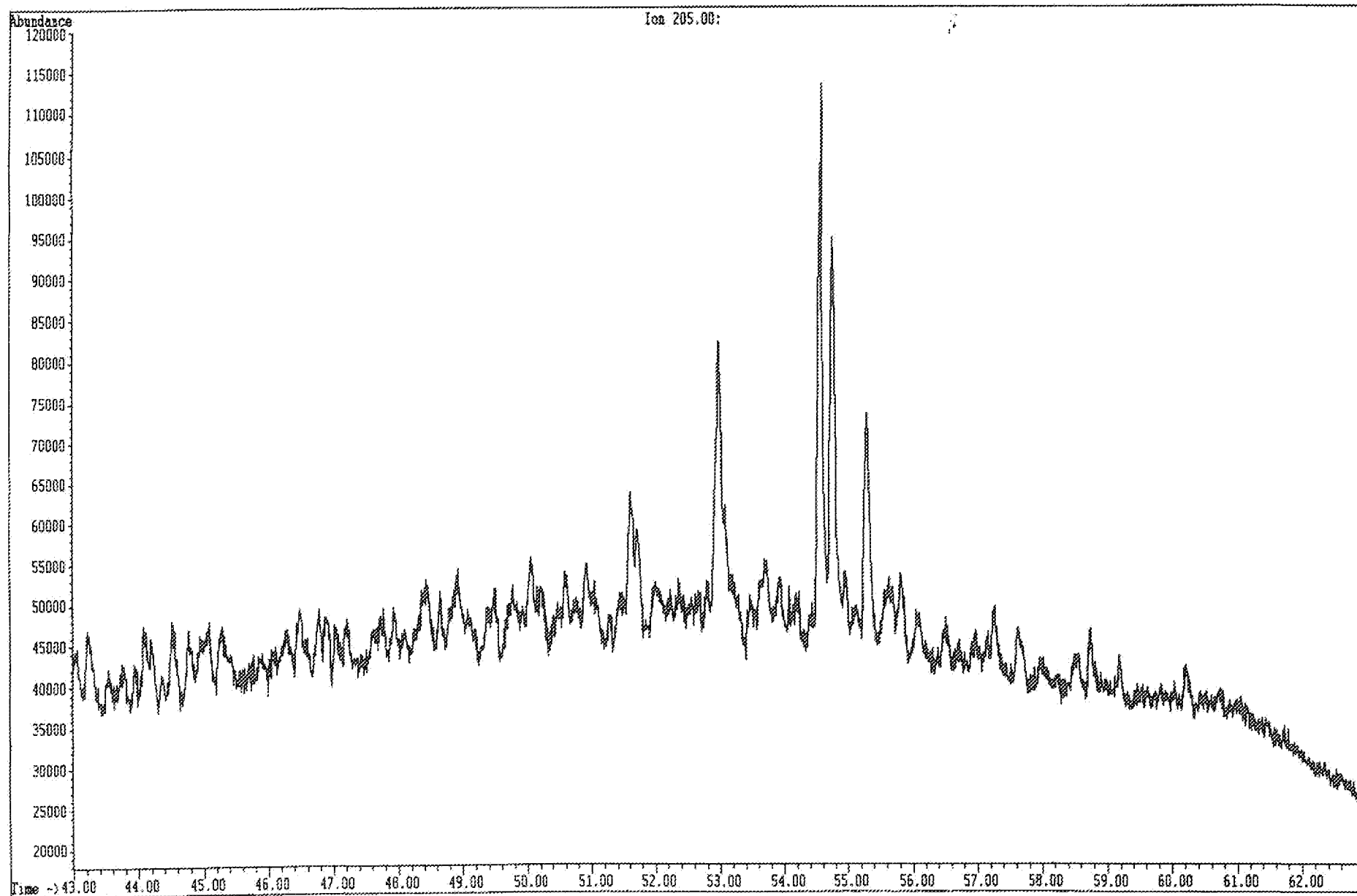
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Operator:
Date Acquired: 6:25 pm
Method File Name: BIOM.M
Sample Name: 4070-002A
Misc Info:
Bottle Number: 72

Figure: B3.2f
Well: 34/7-5
Depth: 2518.80m



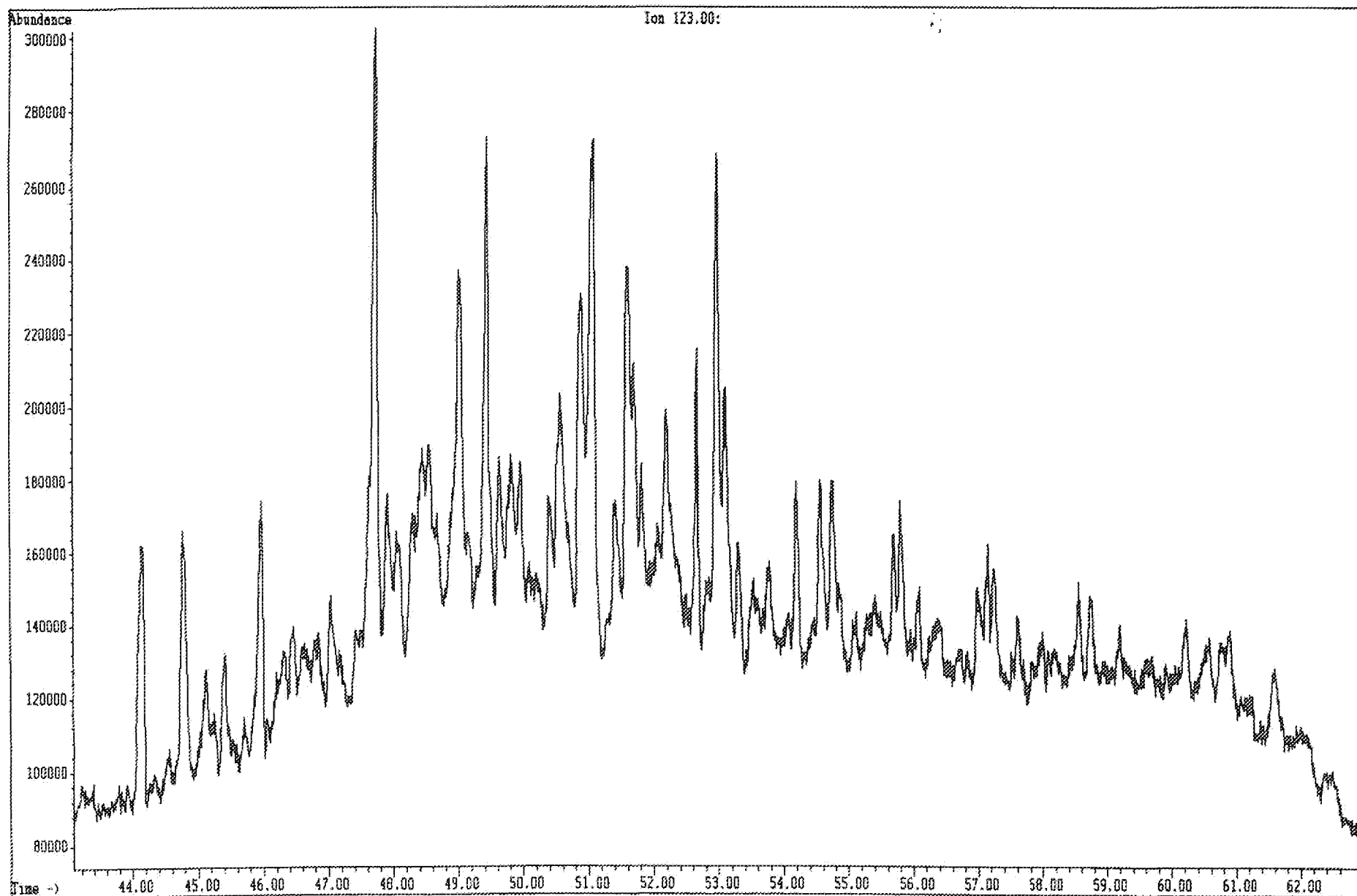
File: D:\CHEMPC\DATA\7201008.D
Operator:
Date Acquired: 6:25 pm
Method File Name: B10M.M
Sample Name: 4070-002A
Misc Info:
Bottle Number: 72

Figure: B3.2g
Well: 34/7-5
Depth: 2518.80m



File: D:\CHEMPC\DATA\7201008.D
Operator:
Date Acquired: 6:25 pm
Method File Name: BLOM.M
Sample Name: 4070-002A
Misc Info:
Bottle Number: 72

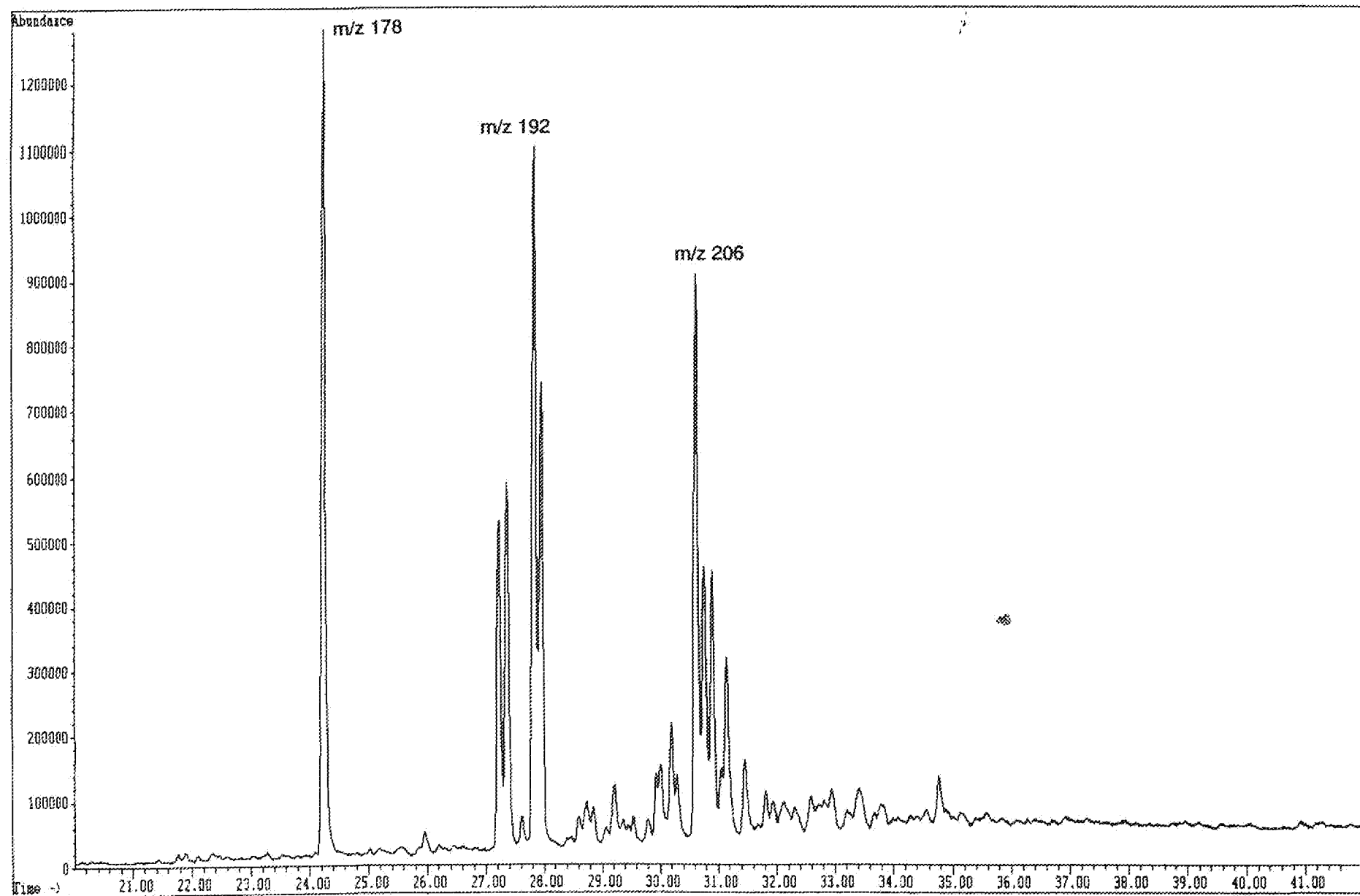
Figure: B3.2h
Well: 34/7-5
Depth: 2518.80m



File: D:\CHEMPC\DATA\5801007.D
Operator:
Date Acquired: 2:05 am
Method File Name: E10MY.M
Sample Name: 4070-002A
Misc Info:
Bottle Number: 58

Phenanthrenes

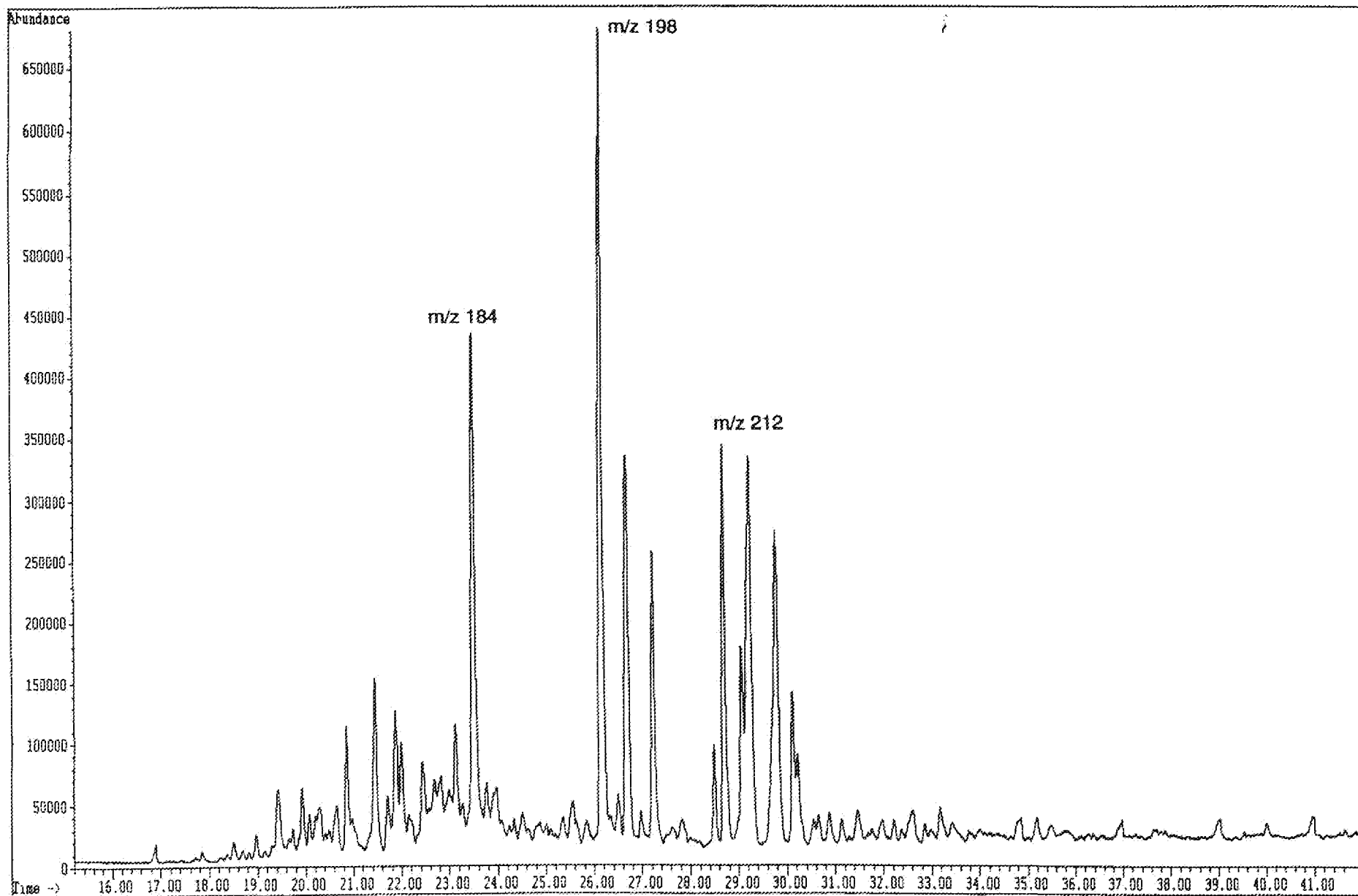
Figure: B3.2i
Well: 34/7-5
Depth: 2518.80m



File: D:\CHEMPC\DATA\5801007.D
Operator:
Date Acquired: 2:05 am
Method File Name: B10MY.M
Sample Name: 4070-002A
Misc Info:
Bottle Number: 58

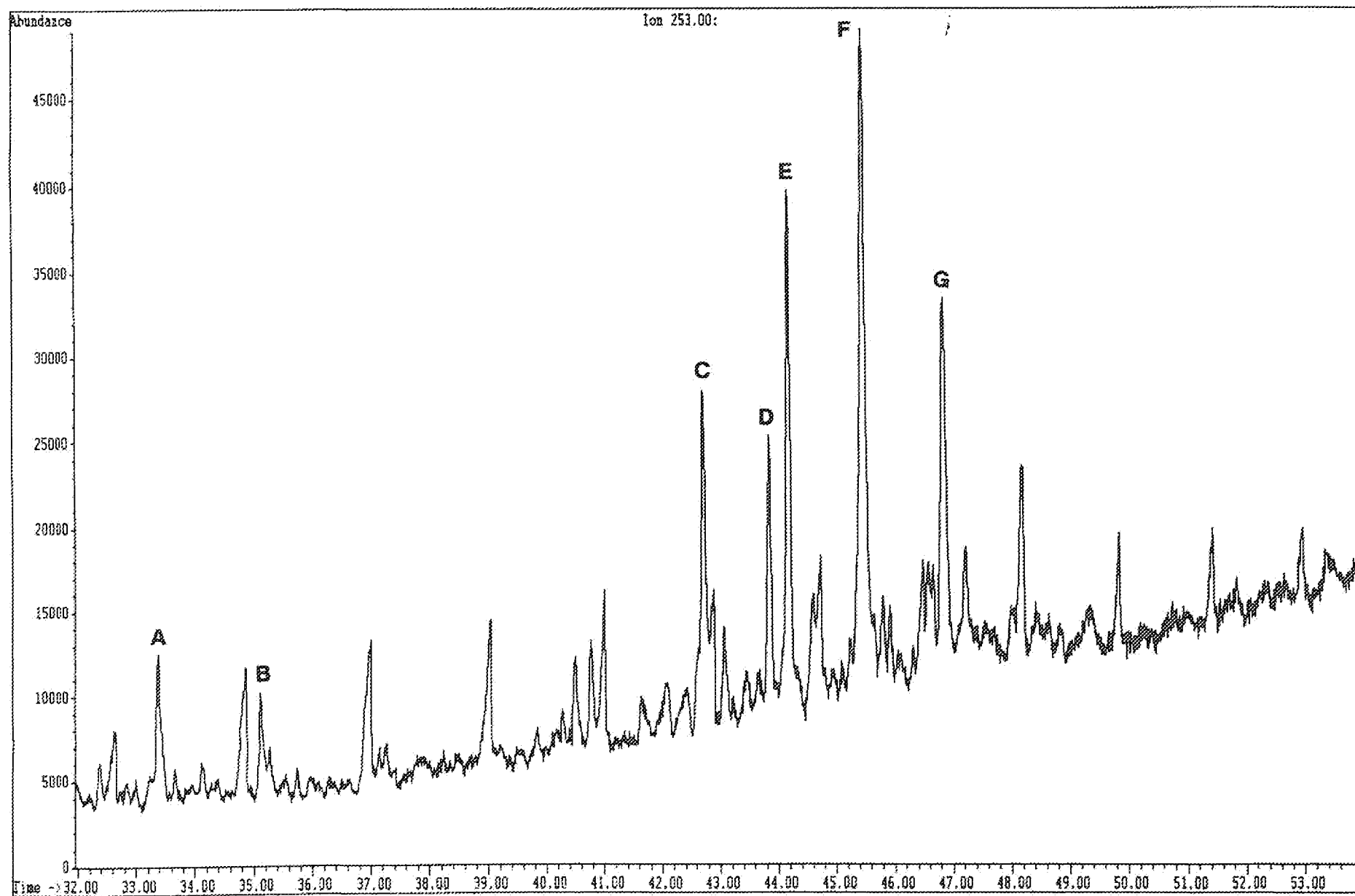
Figure: B3.2j
Well: 34/7-5
Depth: 2518.80m

Dibenzothiophenes



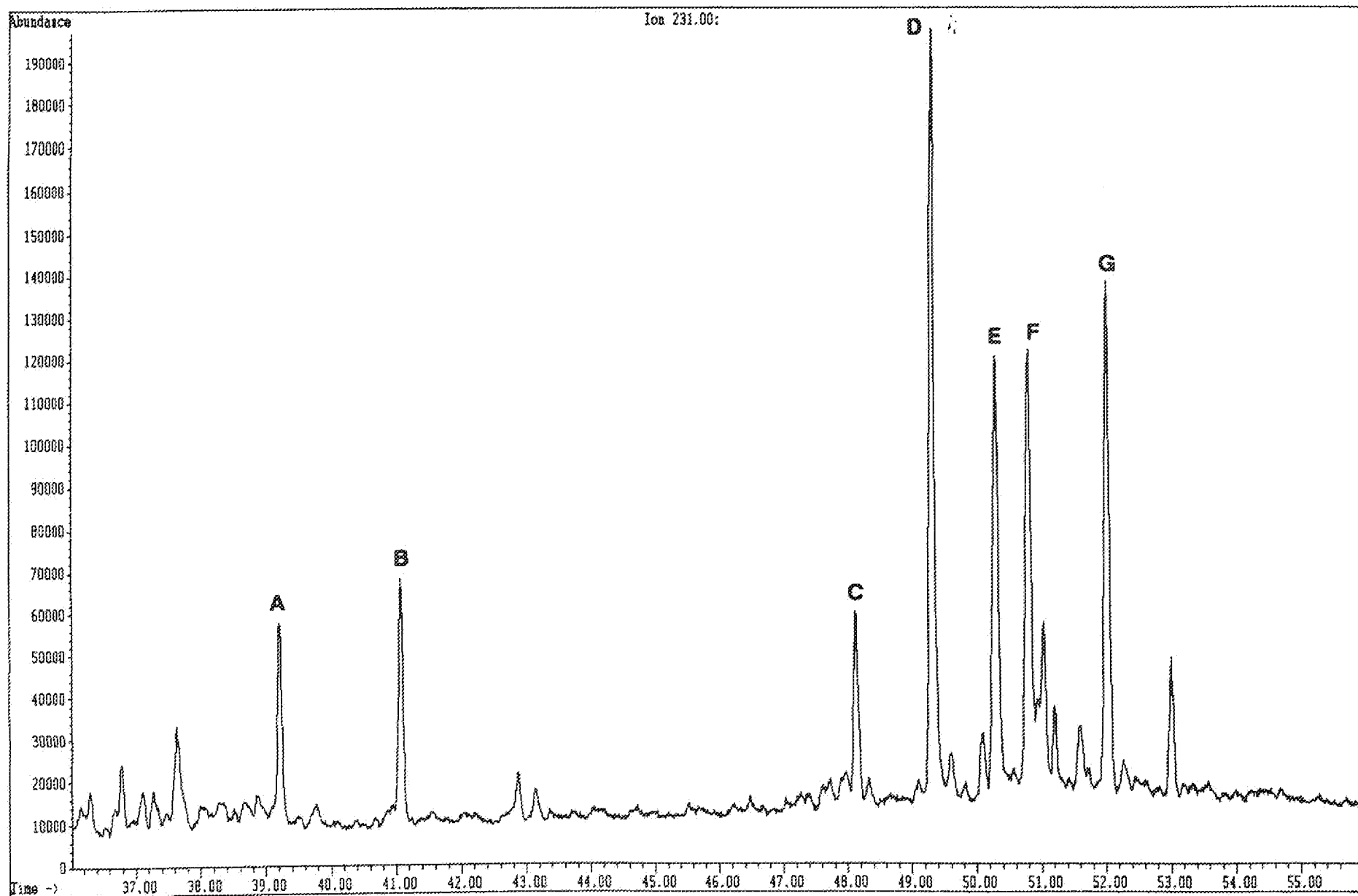
File: D:\CHEMPC\DATA\5801007.D
Operator:
Data Acquired: 2:05 am
Method File Name: BTOMY.M
Sample Name: 4070-002A
Misc Info:
Bottle Number: 58

Figure: B3.2k
Well: 34/7-5
Depth: 2518.80m



File: D:\CHEMPC\DATA\5801007.D
Operator:
Date Acquired: 2:05 am
Method File Name: BICMY.M
Sample Name: 4070-002A
Misc Info:
Bottle Number: 58

Figure: B3.21
Well: 34/7-5
Depth: 2518.80m



WELL 34/4-5

TABLE C.1
ORGANIC CARBON RESULTS AND GROSS LITHOLOGIC DESCRIPTIONS

JOB 4071				
GEOCHEM SAMPLE NUMBER	DEPTH/ IDENTITY	GROSS LITHOLOGIC DESCRIPTION	G S A COLOUR CODE	TOTAL ORGANIC CARBON (Wt. %)

WELL: 34/4-5

4071-001	3475.90m	A100% SANDSTONE - fine grained, sub-angular, blocky, hard, micaceous, occ dark grey bituminous bands, no F, slow blooming milky C, pale yellowish brown.	10YR6/2	
4071-002	3478.50m	A100% SANDSTONE - fine to med grained, sub-angular, blocky, v hard, sl micaceous, no F, slow blooming milky C, pale yellowish brown. B 40% BITUMINOUS SANDSTONE - blocky, mod hard, micaceous, no F, no C, dark grey.	10YR6/2 N3	
4071-003	3584.80m	A100% SANDSTONE - fine to med grained, sub-angular, platy to blocky, hard, sl micaceous, occ bituminous, no F, slow blooming milky C, pale yellowish brown.	10YR6/2	

Abbreviations = arenaceous, argillaceous, calcareous, Cut, dolomite, Fluorescence, foraminifera fossiliferous, Lost Circulation Material, moderately, occasionally, slightly, very

TABLE C.2
CONCENTRATION (PPM) OF EXTRACTED C₁₅₊ MATERIAL IN ROCK

JOB 4071	L I T H O	DEPTH/ IDENTITY	TOTAL EXTRACT	HYDROCARBONS			NON HYDROCARBONS			
GEOCHEM SAMPLE NUMBER				Saturates	Aromatics	TOTAL	Preciptd. Asphaltenes	Eluted NSO's	Non-Eluted NSO's	TOTAL

WELL: 34/4-5

4071-001A	3475.90m	2666	1874	188	2061	375	224	5	605
4071-002A	3478.50m	4858	3592	409	4001	306	546	5	857
4071-003A	3584.80m	5101	3913	427	4339	192	559	10	762

TABLE C.3
COMPOSITION (NORMALISED %) OF C₁₅+ MATERIAL

JOB 4071	L I T H O	DEPTH/ IDENTITY	HYDROCARBONS		NON HYDROCARBONS		
GEOCHEM SAMPLE NUMBER			Saturates	Aromatics	Preciptd. Asphaltenes	Eluted NSO's	Non-Eluted NSO's

WELL: 34/4-5

4071-001A	3475.90m	70.28	7.04	14.08	8.41	0.20
4071-002A	3478.50m	73.94	8.43	6.29	11.25	0.10
4071-003A	3584.80m	76.71	8.36	3.76	10.97	0.20

TABLE C.4
SIGNIFICANT C₁₅₊ RATIOS

JOB 4071	L I T H O	DEPTH/ IDENTITY	TOC (%)	mg/g TOC						HYDROCARBONS % TOTAL EXTRACT	SATURATES AROMATICS
GEOCHEM SAMPLE NUMBER				TOTAL EXTRACT	SATURATES	AROMATICS	TOTAL HYDROCARBONS	ELUTED NSO's	ASPHALTENES		

WELL: 34/4-5

4071-001A	3475.90m	0.34	784.12	551.05	55.18	606.24	65.95	110.37	77.31	9.99
4071-002A	3478.50m	0.36	1349.32	997.74	113.75	1111.49	151.79	84.88	82.37	8.77
4071-003A	3584.80m	0.29	1759.00	1349.28	147.09	1496.37	192.90	66.17	85.07	9.17

TABLE C.4'
C₁₅+ CHROMATOGRAPHY WEIGHTS (gms)

JOB 4071	LITHO	DEPTH/ IDENTITY	ROCK EXTRACTED	TOTAL EXTRACT	PRECIPTD. ASPHALTENES	NC5	SATURATES	AROMATICS	ELUTED NSO's	NON-ELUTED NSO's
GEOCHEM SAMPLE NUMBER										

WELL: 34/4-5

4071-001A	3475.90m	15.0300	0.04007	0.00564	0.03443	0.02816	0.00282	0.00337	0.00008
4071-002A	3478.50m	14.5300	0.07058	0.00444	0.06615	0.05219	0.00595	0.00794	0.00007
4071-003A	3584.80m	13.5500	0.06912	0.00260	0.06652	0.05302	0.00578	0.00758	0.00014

TABLE C.5
COMPOSITION (NORMALISED %) OF C₁₅₊ SATURATE (PARAFFIN - NAPHTHENE) HYDROCARBONS

GEOCHEM SAMPLE NUMBER	001A	002A	003A
DEPTH	3475.9m	3478.5m	3584.8m
SAMPLE TYPE			
nC15	2.94	5.76	6.11
nC16	4.99	7.67	7.53
nC17	5.87	6.47	7.23
nC18	7.08	7.31	8.31
nC19	8.46	7.80	8.71
nC20	9.04	7.64	8.41
nC21	8.49	7.36	7.44
nC22	8.48	7.13	7.39
nC23	7.65	6.20	6.40
nC24	8.16	6.29	5.80
nC25	7.27	5.43	5.69
nC26	5.30	4.95	4.66
nC27	4.56	4.44	4.18
nC28	3.47	3.90	3.35
nC29	2.90	3.61	3.05
nC30	1.94	2.71	2.03
nC31	1.32	2.01	1.46
nC32	0.75	1.29	0.81
nC33	0.58	0.94	0.67
nC34	0.44	0.70	0.48
nC35	0.30	0.38	0.29
Paraffin	15.78	17.64	19.12
Isoprenoid	1.85	2.42	3.02
Naphthene	82.37	79.94	77.86
CPI 1 Index	1.00	0.98	1.01
CPI 2 Index	1.13	1.04	1.12
CPI 3 Index	1.04	1.00	1.04
Prist/Phytane	1.23	1.23	1.37
Prist/nC17	0.80	1.00	0.92
Phytane/nC18	0.54	0.72	0.59

Job Number : 4071

$$C.P.I. 1 = \frac{1}{2} \left[\frac{C_{21} + C_{23} + C_{25} + C_{27}}{C_{20} + C_{22} + C_{24} + C_{26}} + \frac{C_{21} + C_{23} + C_{25} + C_{27}}{C_{22} + C_{24} + C_{26} + C_{28}} \right]$$

$$C.P.I. 2 = \frac{1}{2} \left[\frac{C_{25} + C_{27} + C_{29} + C_{31}}{C_{24} + C_{26} + C_{28} + C_{30}} + \frac{C_{25} + C_{27} + C_{29} + C_{31}}{C_{26} + C_{28} + C_{30} + C_{32}} \right]$$

$$C.P.I. 3 = \frac{2 \times (C_{27})}{C_{26} + C_{28}}$$

CT - ditch cuttings CO - core SWC - sidewall core

TABLE C6
METHYLPHENANTHRENE INDICES (MPI)

JOB 4071	DEPTH/ IDENTITY	SAMPLE TYPE	MPI 1		Rcalc		MPI 2	
GEOCHEM SAMPLE NUMBER			AREA	HEIGHT	AREA	HEIGHT	AREA	HEIGHT

WELL: 34/4-5

4071-001A	3475.90m		0.46	0.48			0.50	0.50
4071-002A	3478.50m		0.46	0.48			0.50	0.50
4071-003A	3584.80m		0.46	0.49			0.49	0.52

TABLE C.6'

AROMATIC HYDROCARBONS RATIOS (MSD, PEAK AREA DATA)

SAMPLE NUMBER	DEPTH (m)	2MP/ 1MP	RATIO 1	RATIO 2	RATIO 3
------------------	--------------	-------------	---------	---------	---------

WELL 34/4-5

4071-001A	3475.90	0.61	0.50	0.30	0.20
4071-002A	3478.50	0.66	0.45	0.28	0.18
4071-003A	3584.80	0.67	0.50	0.23	0.20

$$\text{RATIO 1} = \frac{A(231)}{A(231) + G(231)}$$

$$\text{RATIO 2} = \frac{E(253)}{E(253) + G(253)}$$

$$\text{RATIO 3} = \frac{A(253)}{B(231) + E(253)}$$

TABLE C.7
CARBON ISOTOPE COMPOSITIONS (‰, PDB)

JOB 4071								
GEOCHEM SAMPLE NUMBER	DEPTH/ IDENTITY	TOTAL EXTRACT WHOLE OIL	SATURATES	AROMATICS	NSO	ASPHALTENES	KEROGEN	PYROLYSATE (S2)

WELL: 34/4-5

4071-001A	3475.90m	-29.26	-29.53	-29.25	-29.62	-28.53		
4071-002A	3478.50m	-29.59	-29.89	-29.59	-30.25	-28.64		
4071-003A	3584.80m	-29.54	-30.11	-30.20	-30.38	-28.82		

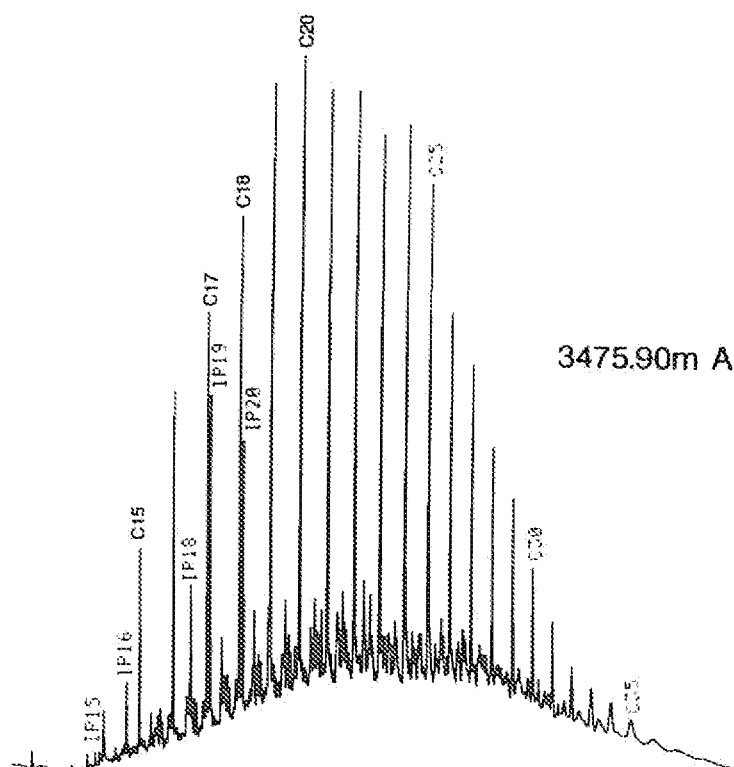
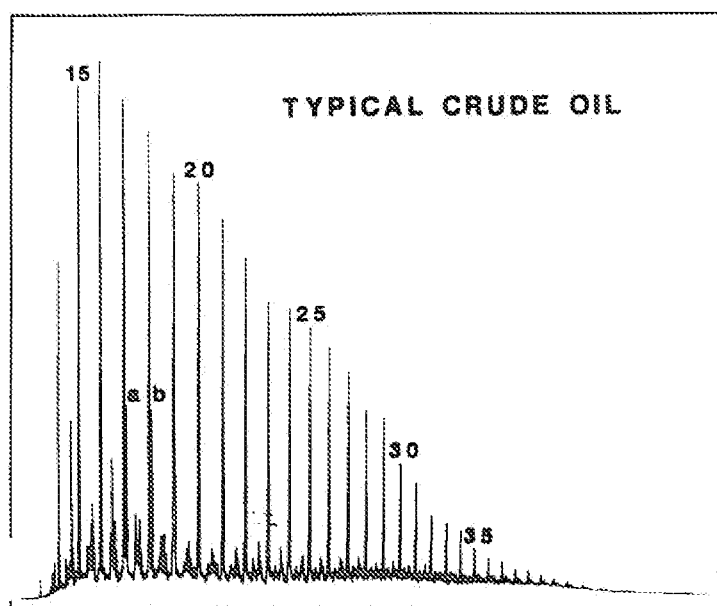
TABLE C.8
BIOMARKER MOLECULAR RATIOS

WELL 34/4-5

		Steranes (m/z 217, 218)				Terpanes (m/z 191)					
SAMPLE NUMBER	DEPTH (m)	Q/T	R/T	A/B	A+B	B/A	<u>C</u>	<u>D</u>	<u>Z</u>	<u>G</u>	<u>G1</u>
					E+F		C+E	D+C	Z+C	G+H%	G1+E%
4071-001A	3475.90	1.53	1.96	1.39	0.93	0.53	0.28	0.16	0.42	59.74	0
4071-002A	3478.50	1.51	1.93	1.43	1.04	0.50	0.28	0.16	0.43	59.66	0
4071-003A	3584.80	1.33	1.61	1.34	1.10	0.52	0.27	0.16	0.44	58.70	0

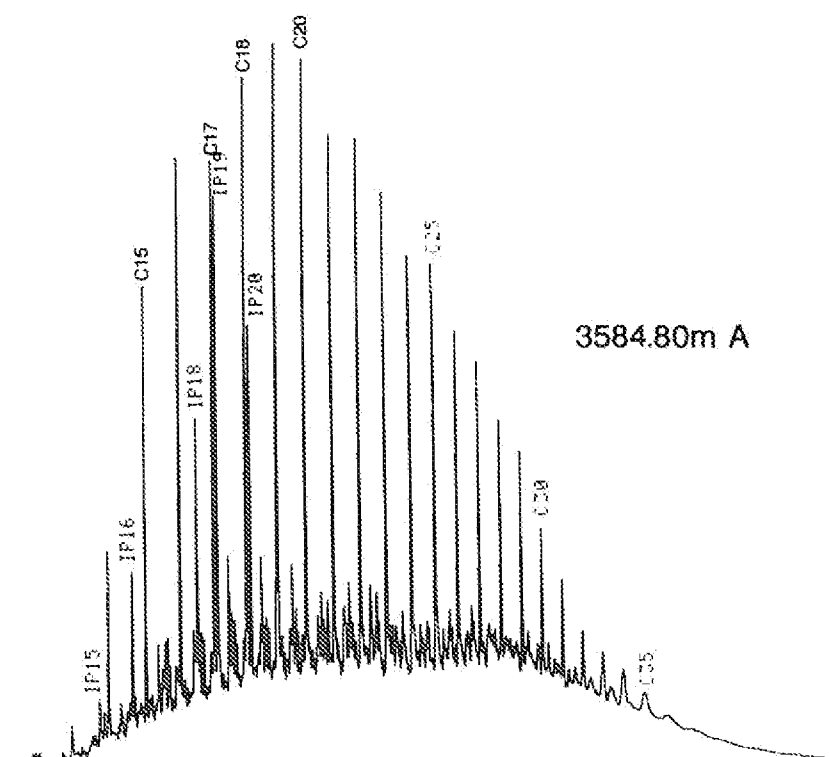
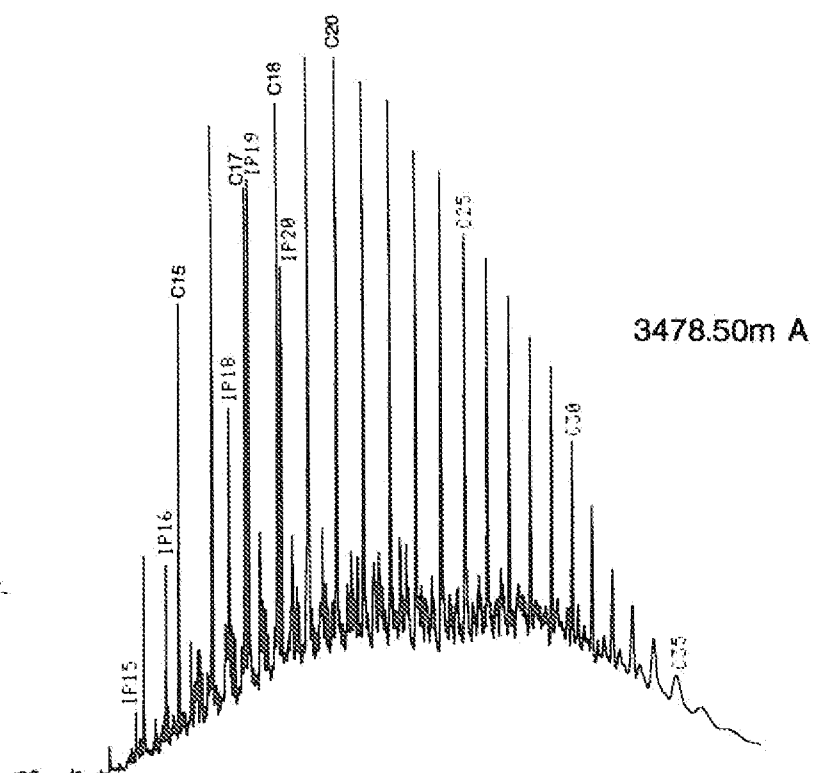
FIGURE C1.1 C₁₅+ SATURATES CHROMATOGRAMS

WELL 34/4-5



a - PRISTANE
b - PHYTANE

CARBON NUMBERS OF NORMAL PARAFFINS INDICATED (20-nC₂₀)

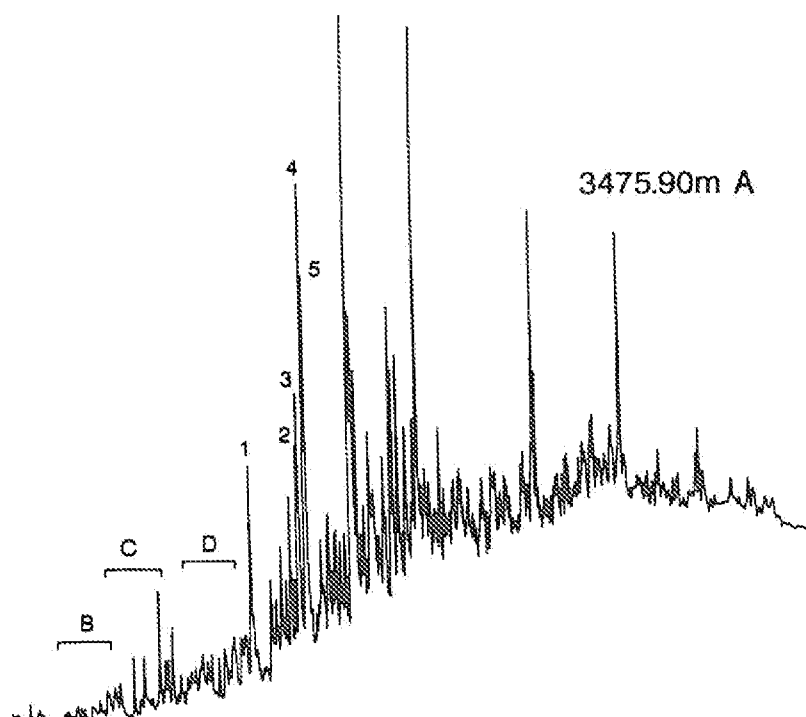
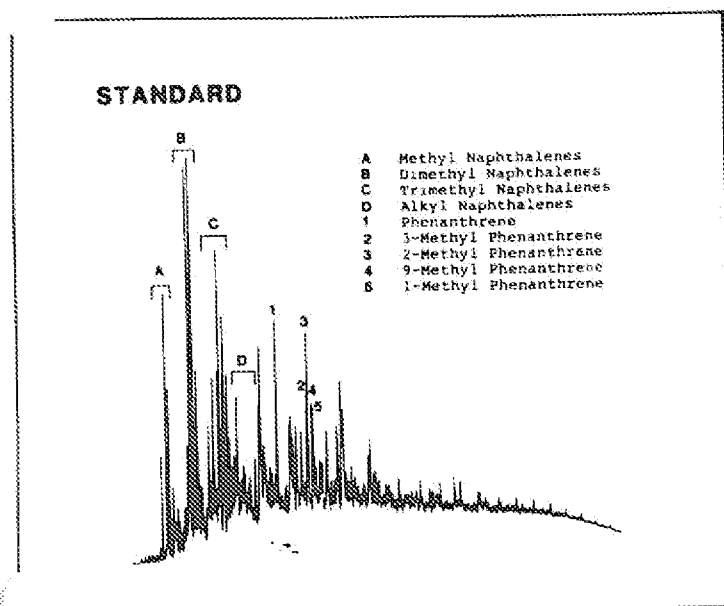


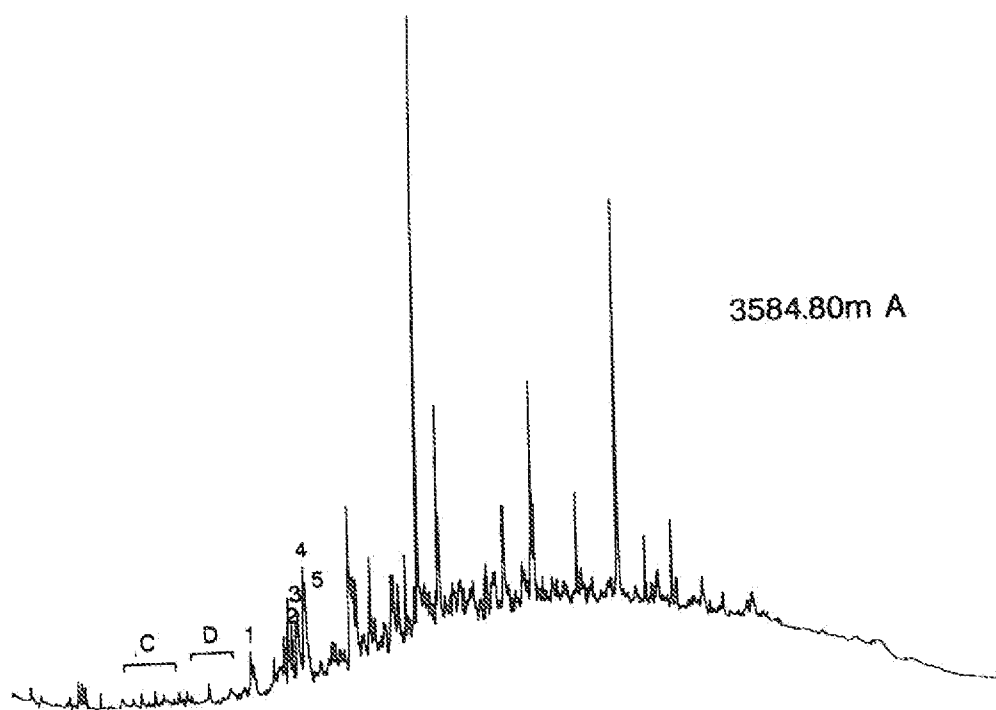
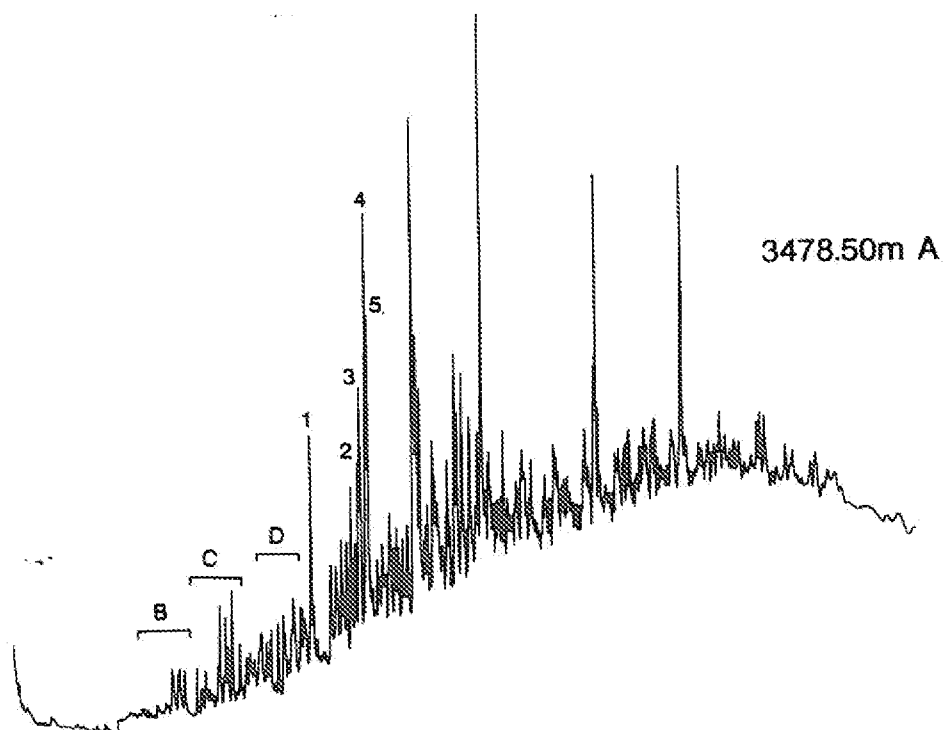
a - PRISTANE

b - PHYTANE

CARBON NUMBERS OF NORMAL PARAFFINS INDICATED (20 - nC₂₀)

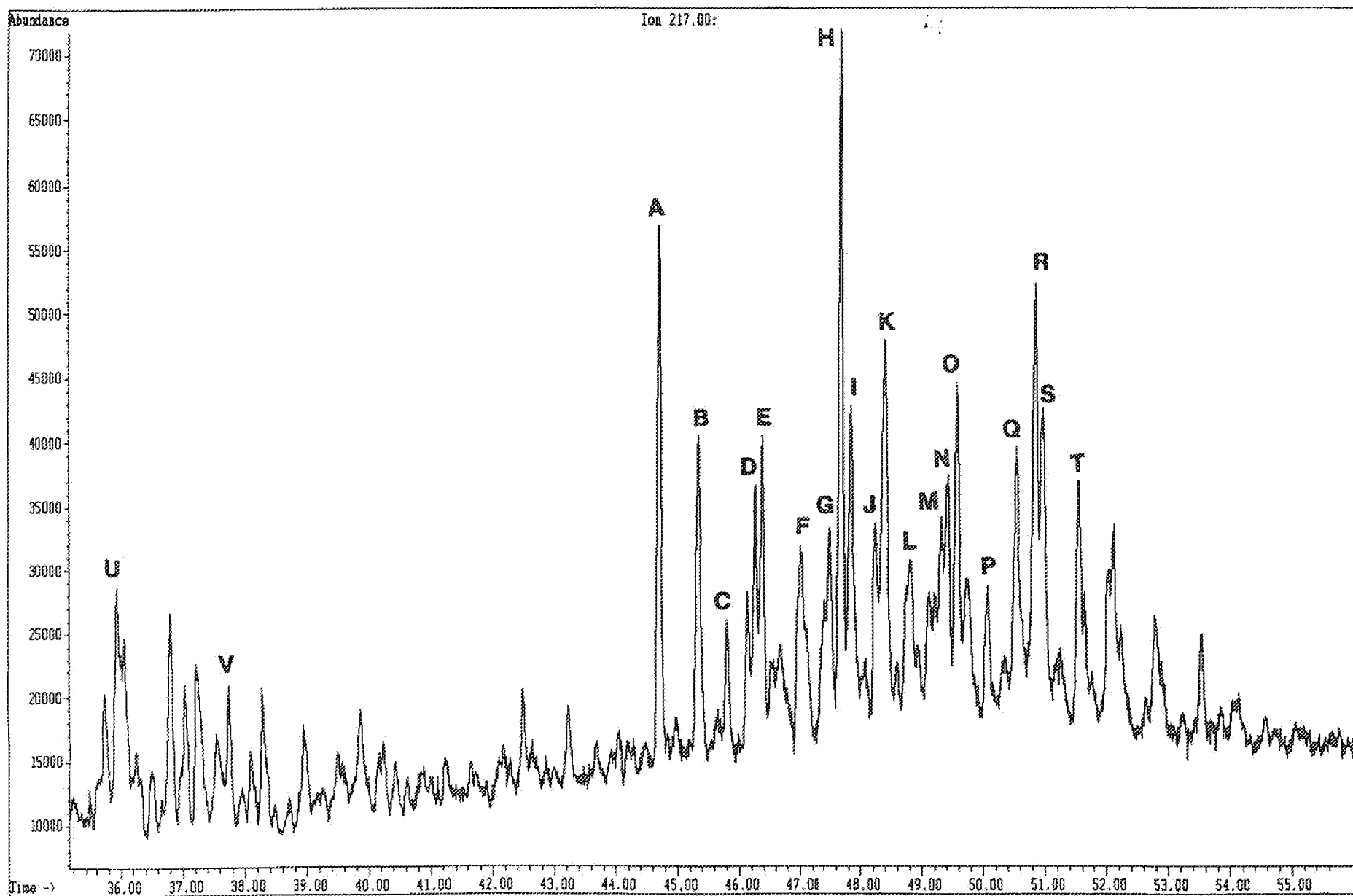
FIGURE C2.1 **C₁₅+ AROMATIC CHROMATOGRAMS**
WELL 34/4-5





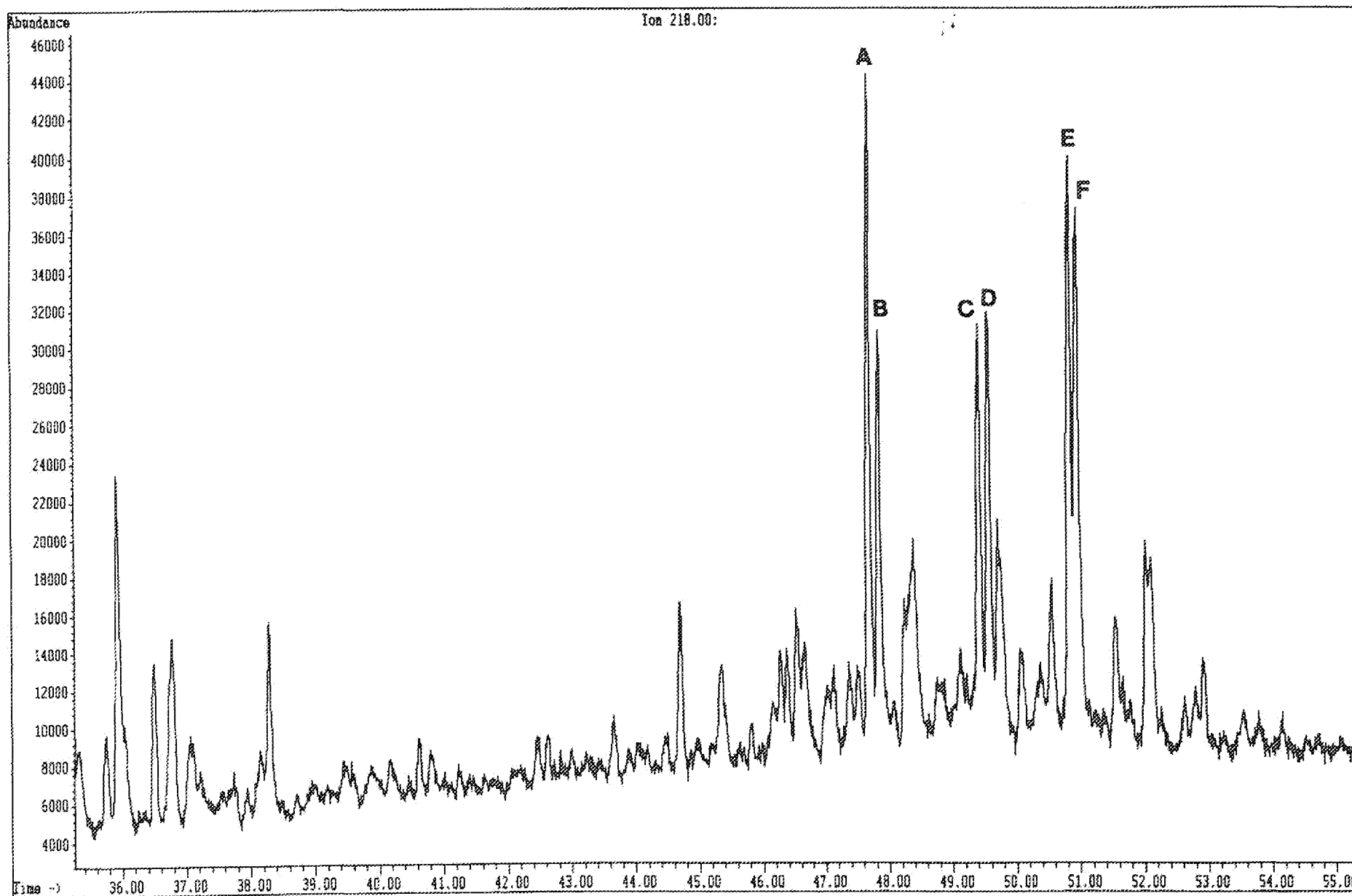
File: D:\CHEMPC\DATA\7301009.D
Operator:
Date Acquired: 7:35 pm
Method File Name: BIOM.M
Sample Name: 4071-001A
Misc Info:
Bottle Number: 73

Figure: C3.1a
Well: 34/4-5
Depth: 3475.90m



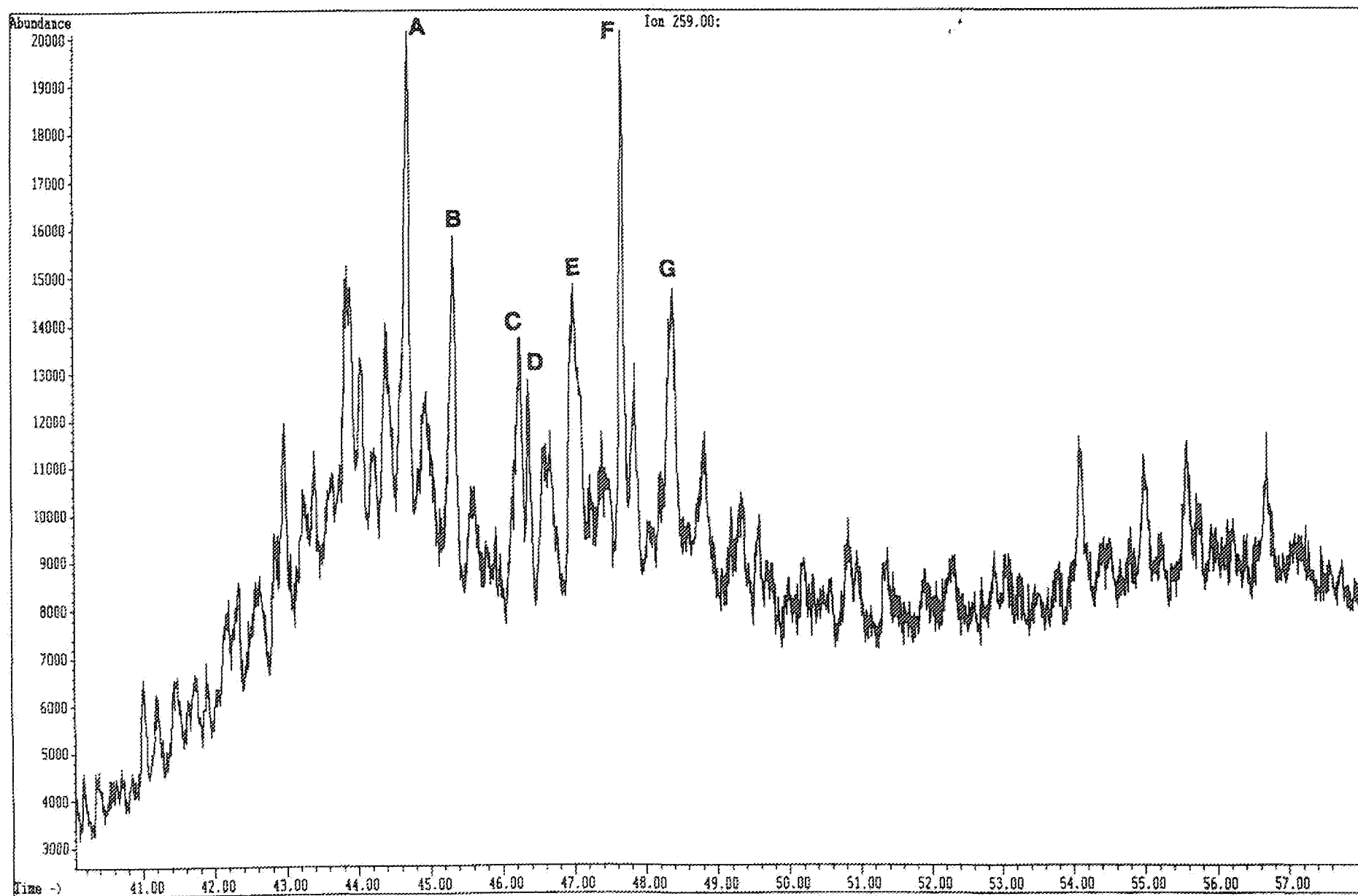
File: D:\CHEMPC\DATA\7301009.D
Operator:
Date Acquired: 7:35 pm
Method File Name: BIOM.M
Sample Name: 4071-001A
Misc Info:
Bottle Number: 73

Figure: C3.1b
Well: 34/4-5
Depth: 3475.90m



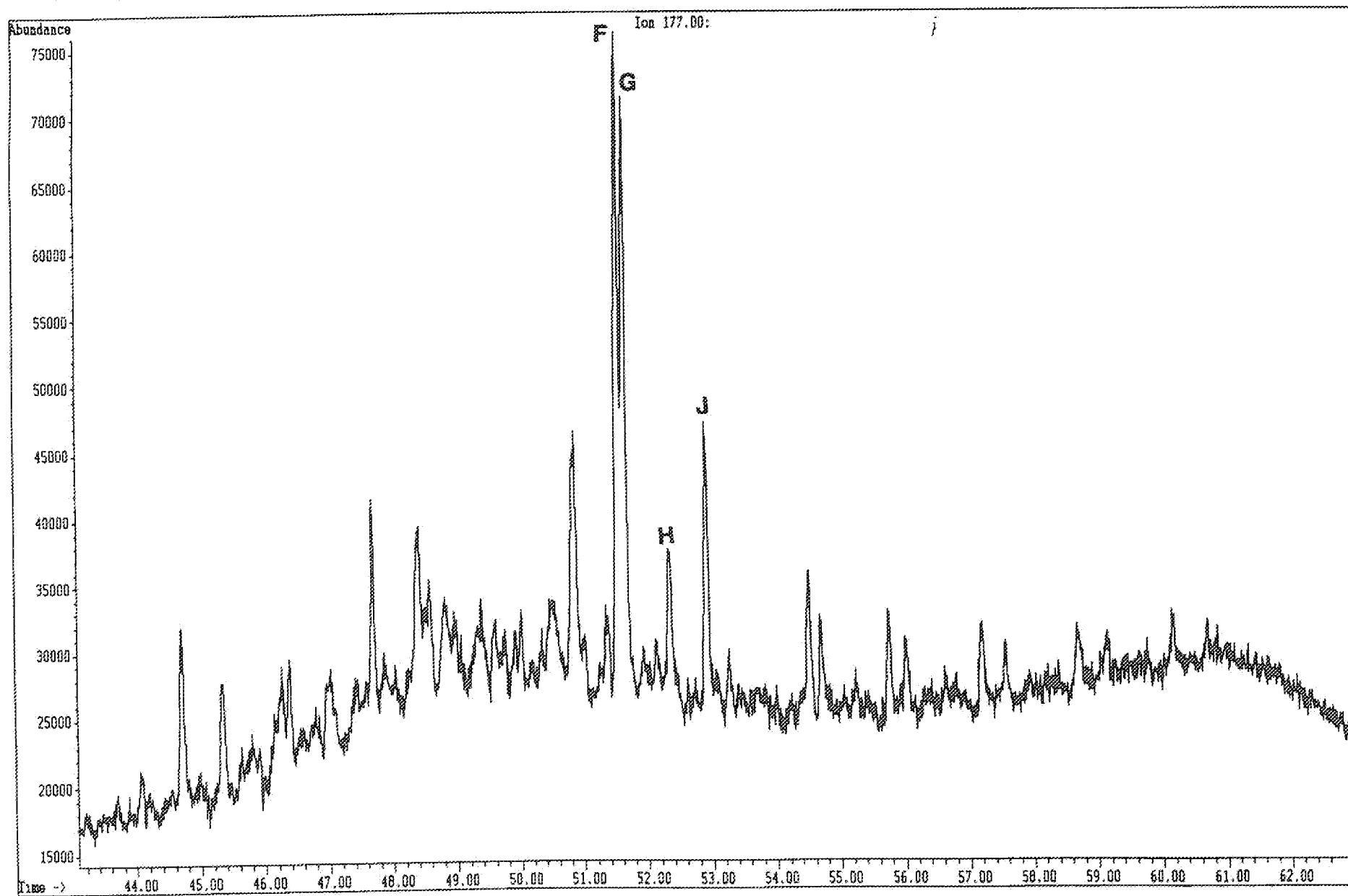
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Operator:
Date Acquired: 7:35 pm
Method File Name: B10M.M
Sample Name: 4071-001A
Misc Info:
Bottle Number: 73

Figure: C3.1c
Well: 34/4-5
Depth: 3475.90m



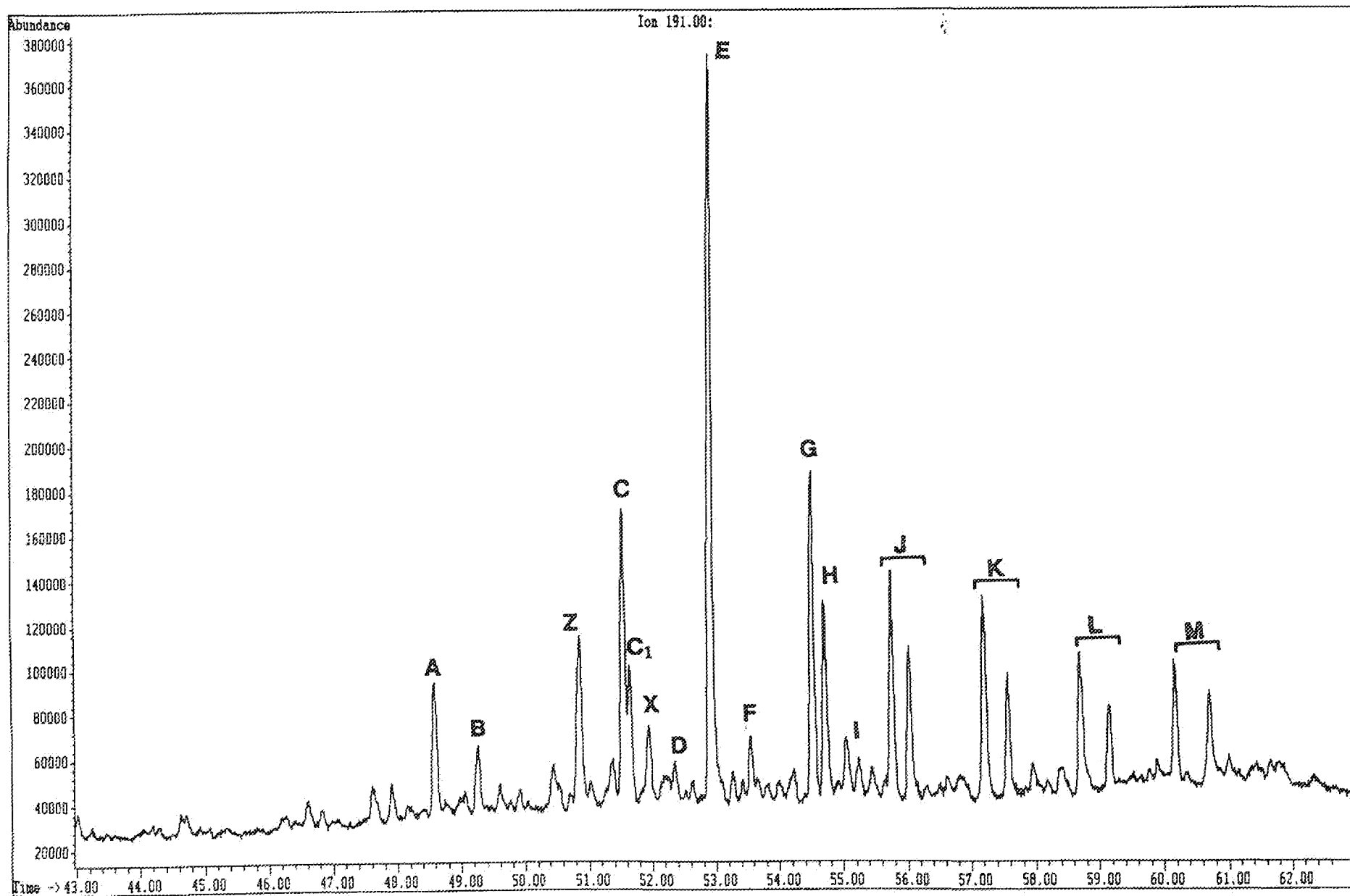
File: D:\CHEMPC\DATA\7301009.D
Operator:
Date Acquired: 7:35 pm
Method File Name: BIOM.M
Sample Name: 4071-001A
Misc Info:
Bottle Number: 73

Figure: C3.1d
Well: 34/4-5
Depth: 3475.90m



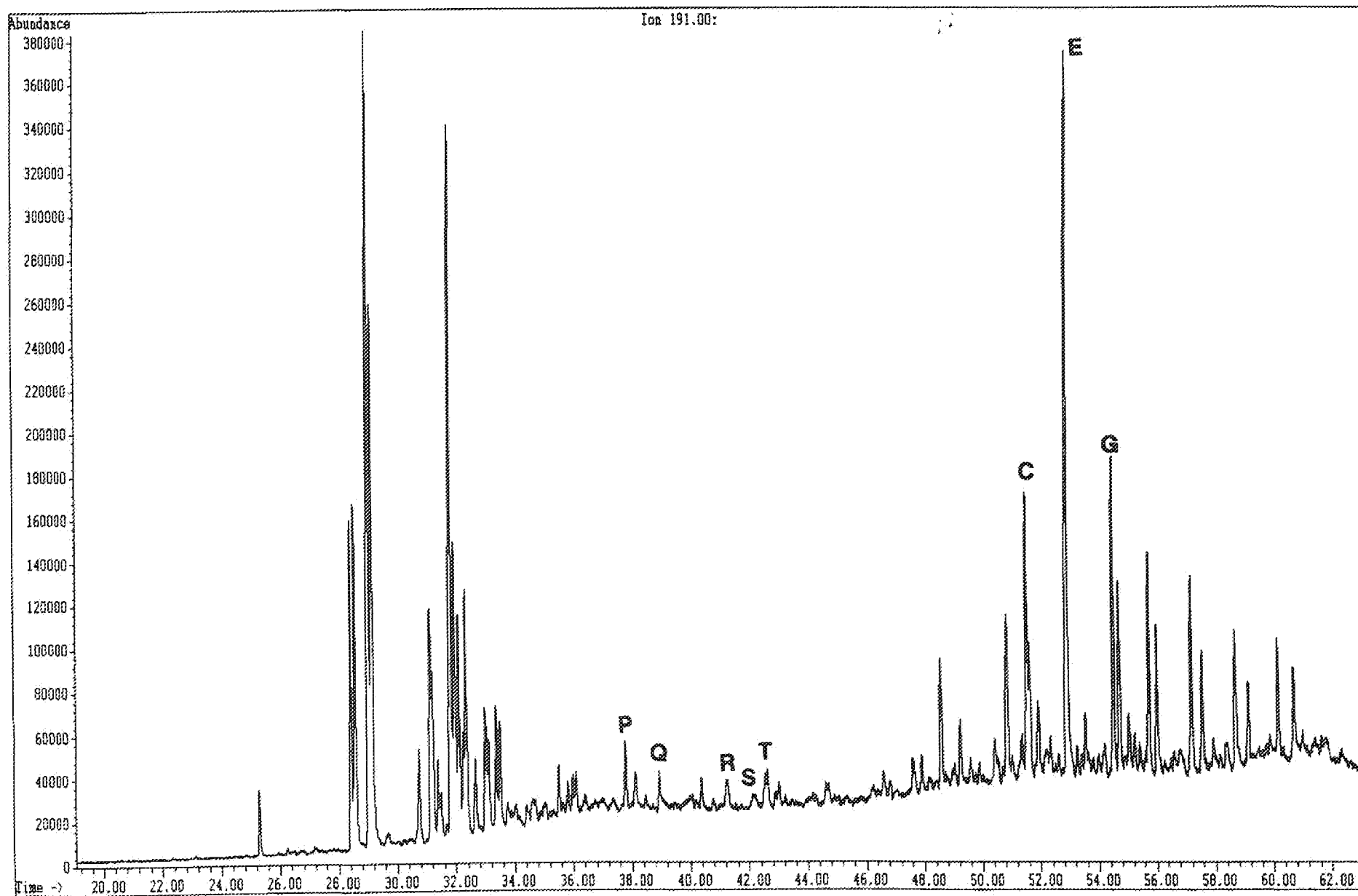
File: D:\CHEMPC\DATA\7301009.D
Operator:
Date Acquired: 7:35 pm
Method File Name: B10M.M
Sample Name: 4071-001A
Misc Info:
Bottle Number: 73

Figure: C3.1e
Well: 34/4-5
Depth: 3475.90m



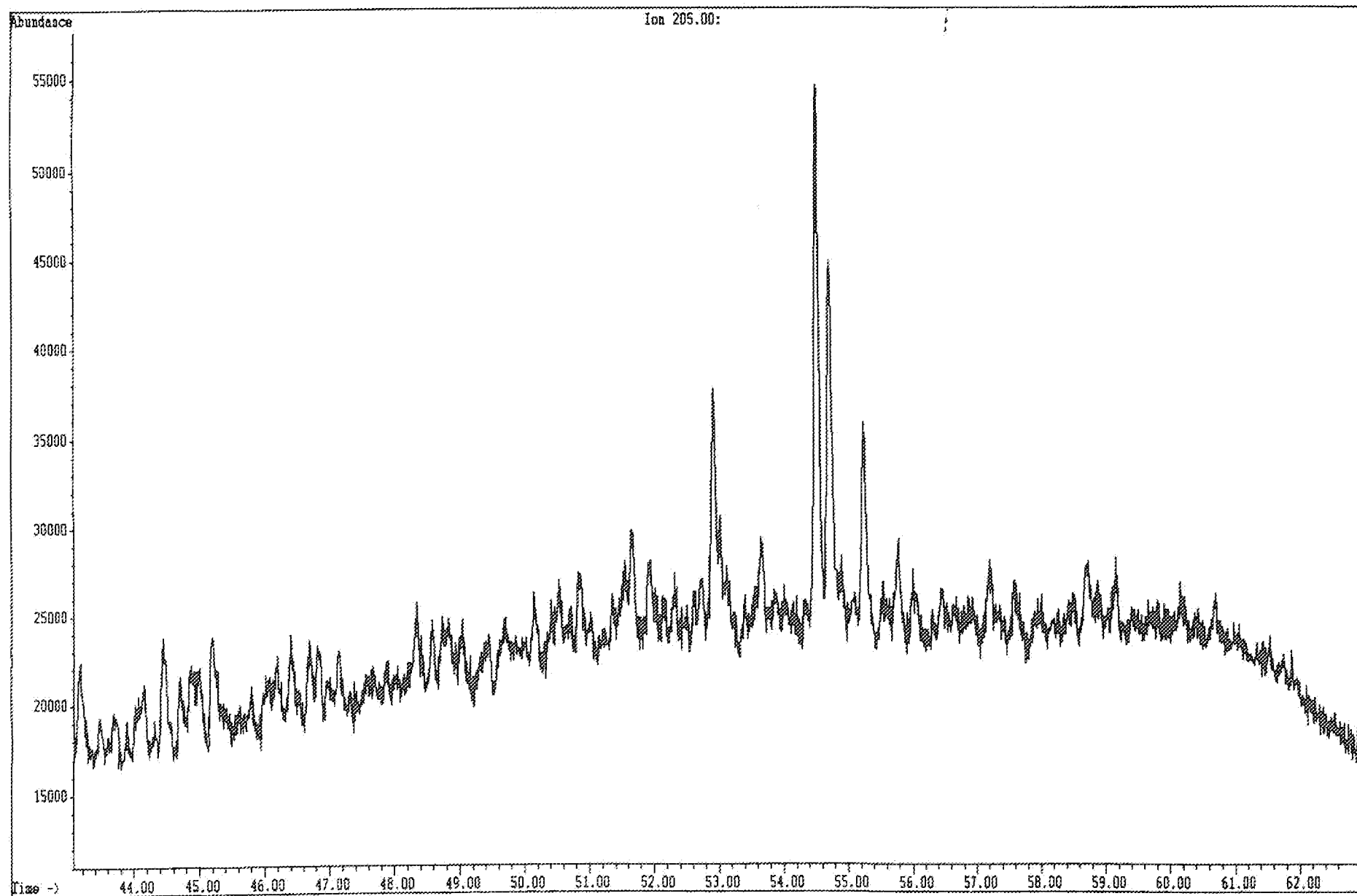
File: D:\CHEMPC\DATA\7301009.D
Operator:
Date Acquired: 7:35 pm
Method File Name: 810M.M
Sample Name: 4071-001A
Misc Info:
Bottle Number: 73

Figure: C3.1f
Well: 34/4-5
Depth: 3475.90m



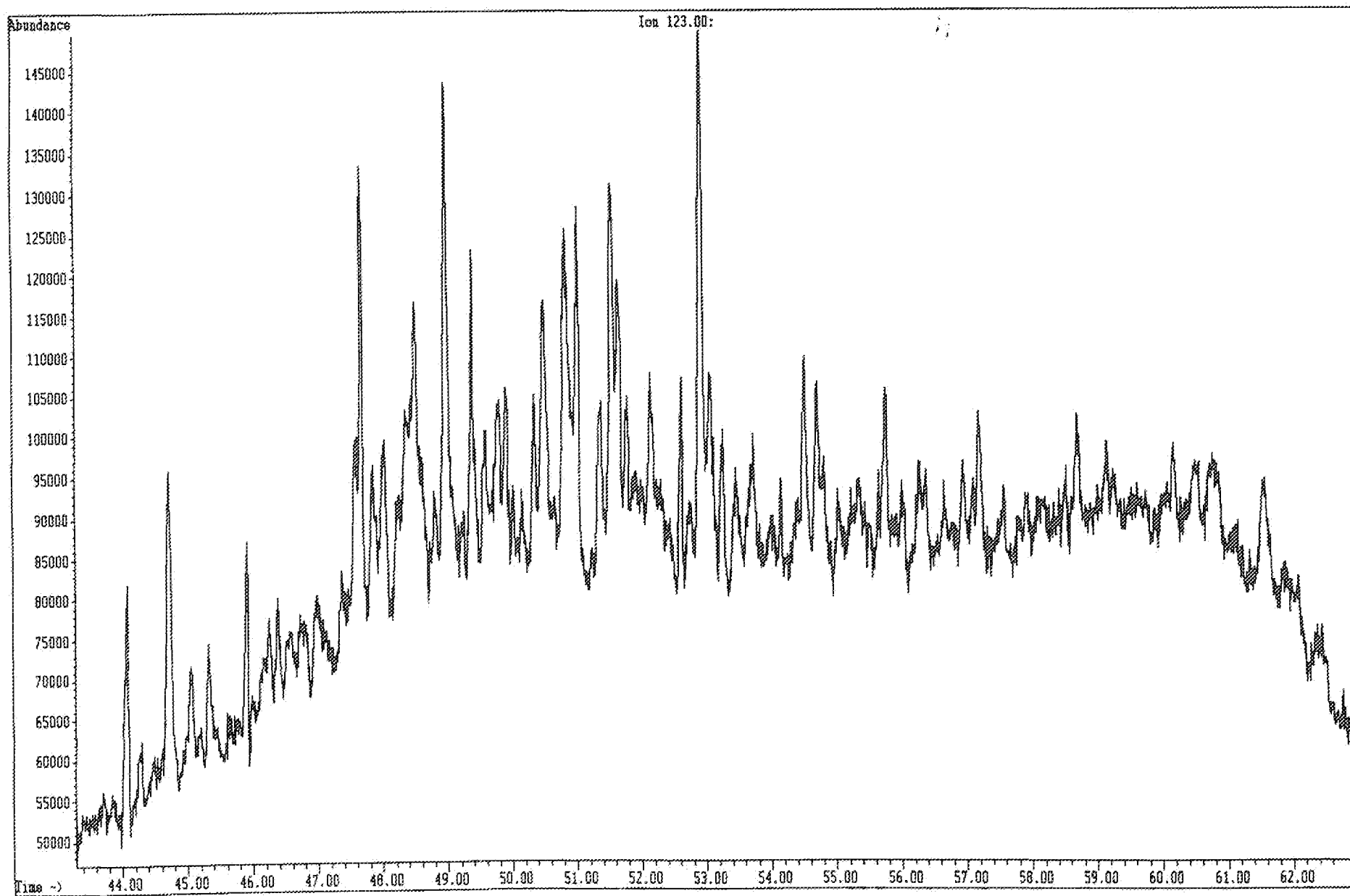
File: D:\CHEMPC\DATA\7301009.D
Operator:
Data Acquired: 7:35 pm
Method File Name: BICM.M
Sample Name: 4071-001A
Misc Info:
Bottle Number: 73

Figure: C3.1g
Well: 34/4-5
Depth: 3475.90m



File: D:\CHEMPC\DATA\7301009.D
Operator:
Date Acquired: 7:35 pm
Method File Name: B10M.M
Sample Name: 4071-001A
Misc Info:
Bottle Number: 73

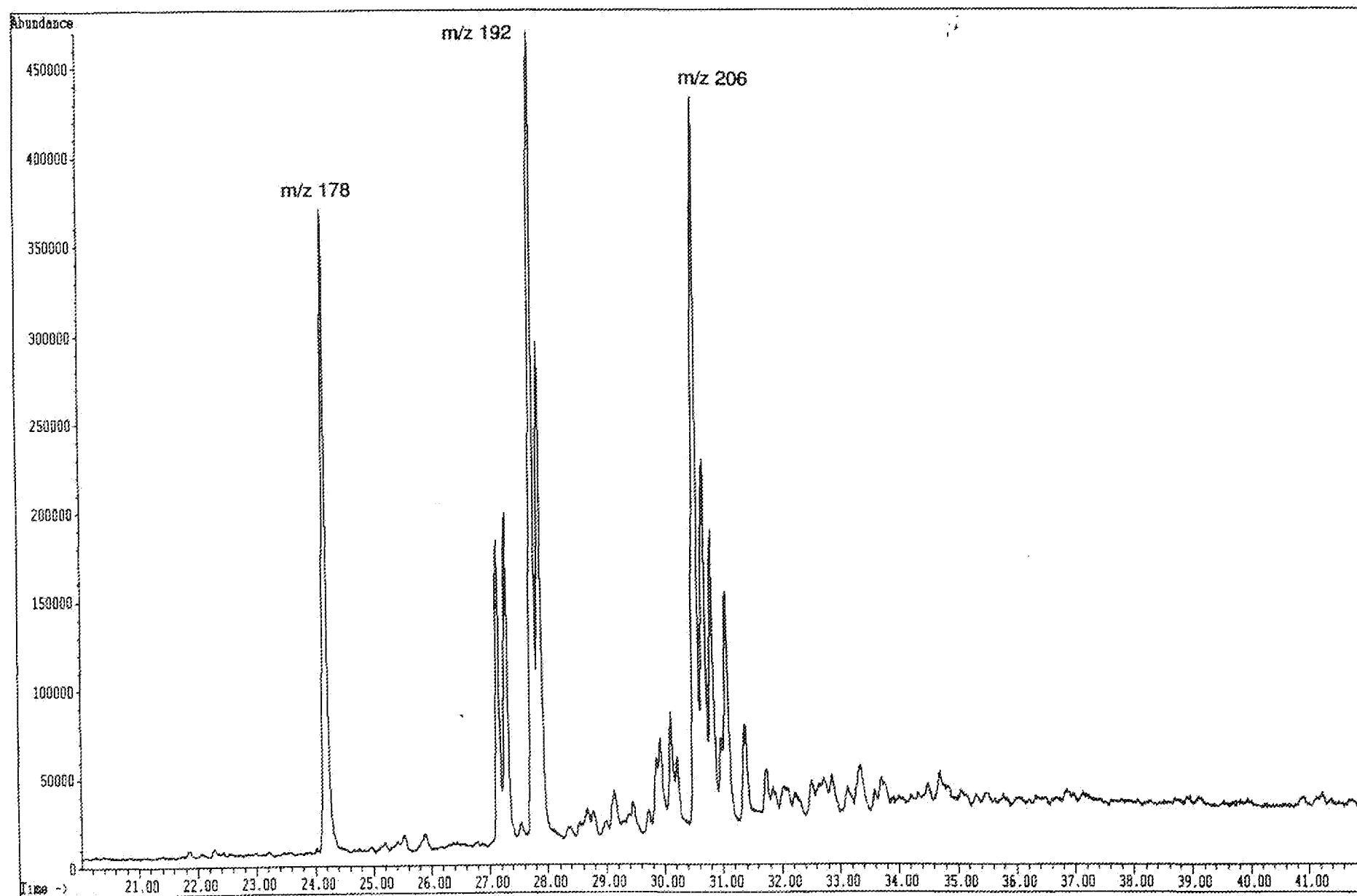
Figure: C3.1h
Well: 34/4-5
Depth: 3475.90m



File: D:\CHEMPC\DATA\5901008.D
Operator:
Date Acquired:
Method File Name: BIOMV.M
Sample Name: 4071-001A
Misc Info:
Bottle Number: 59

Figure: C3.1i
Well: 34/4-5
Depth: 3475.90m

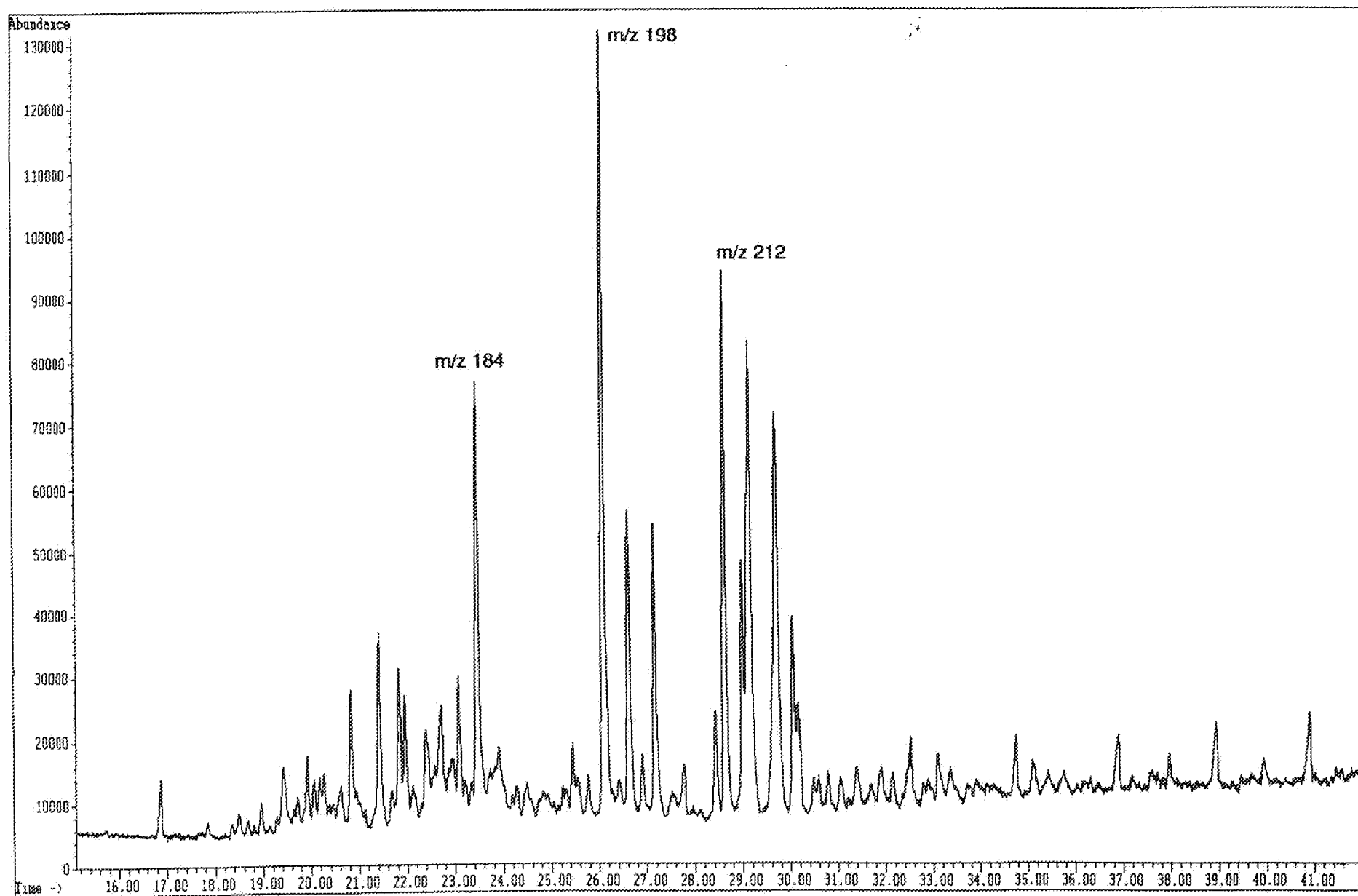
Phenanthrenes



File: D:\CHEMPC\DATA\5901008.D
Operator:
Date Acquired:
Method File Name: BICMY.M
Sample Name: 4071-001A
Misc Info:
Bottle Number: 59

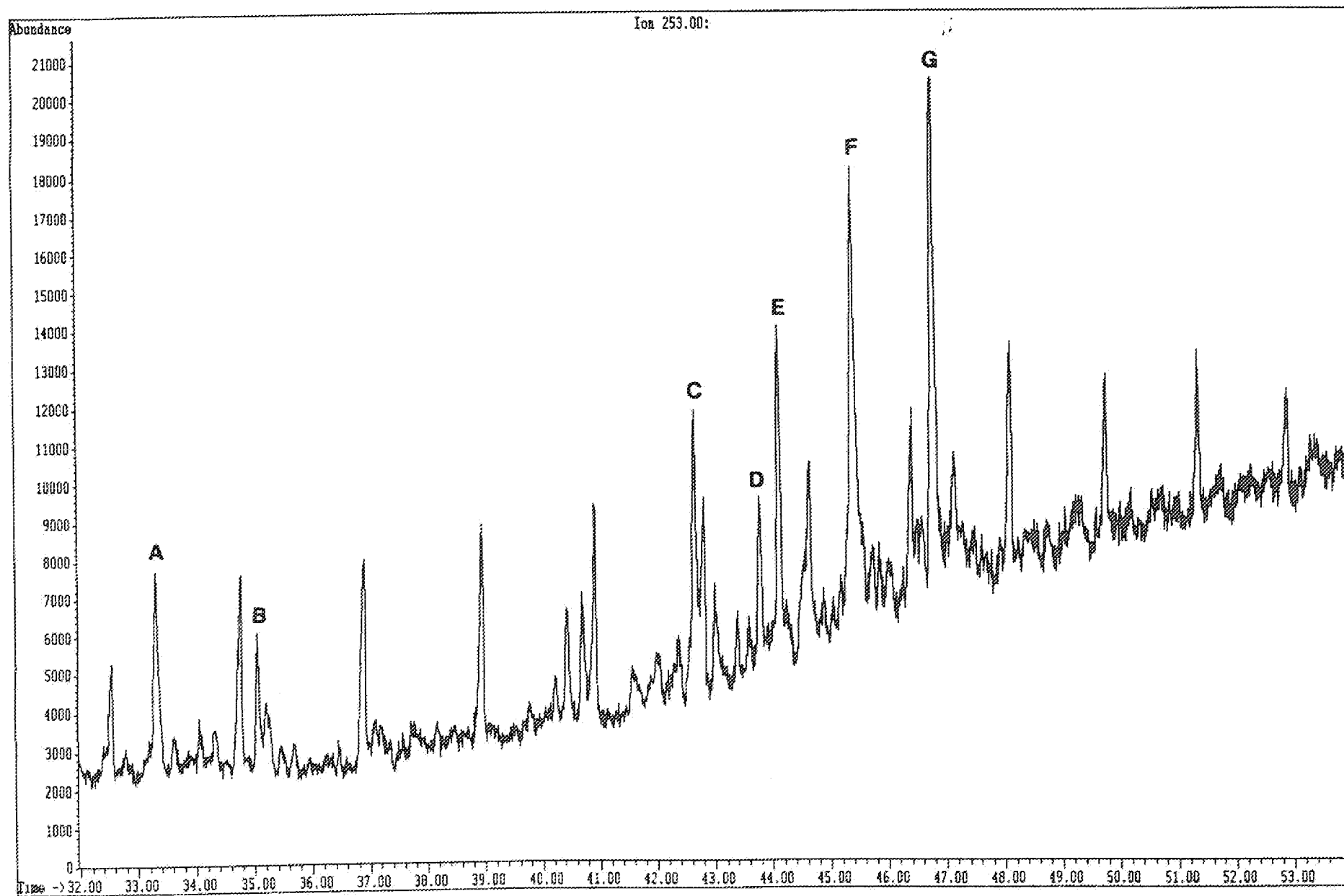
Figure: C3.1j
Well: 34/4-5
Depth: 3475.90m

Dibenzothiophenes



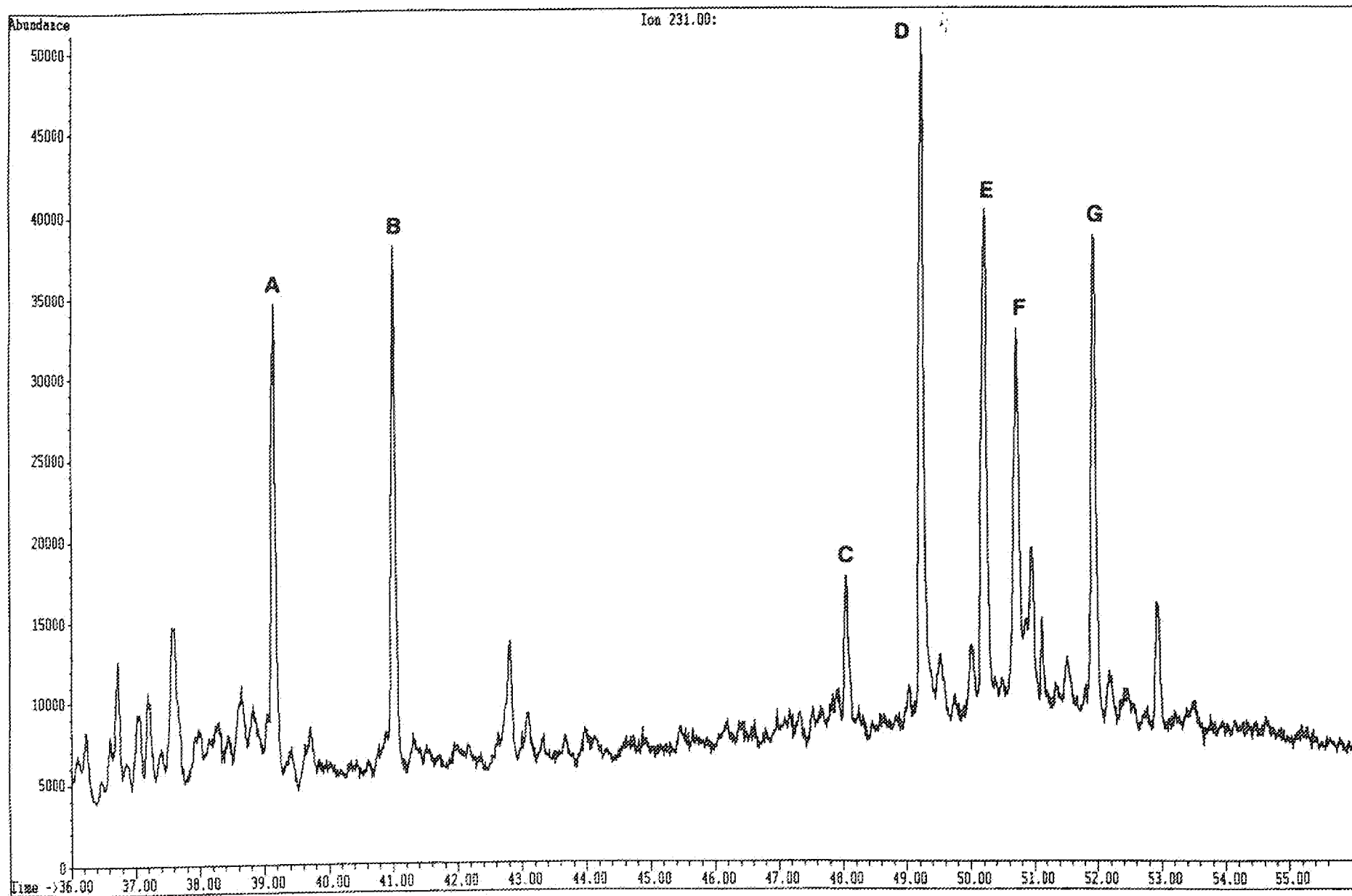
File: D:\CHEMPC\DATA\5901008.D
Operator:
Date Acquired:
Method File Name: BIOMY.M
Sample Name: 4071-001A
Misc Info:
Bottle Number: 59

Figure: C3.1k
Well: 34/4-5
Depth: 3475.90m



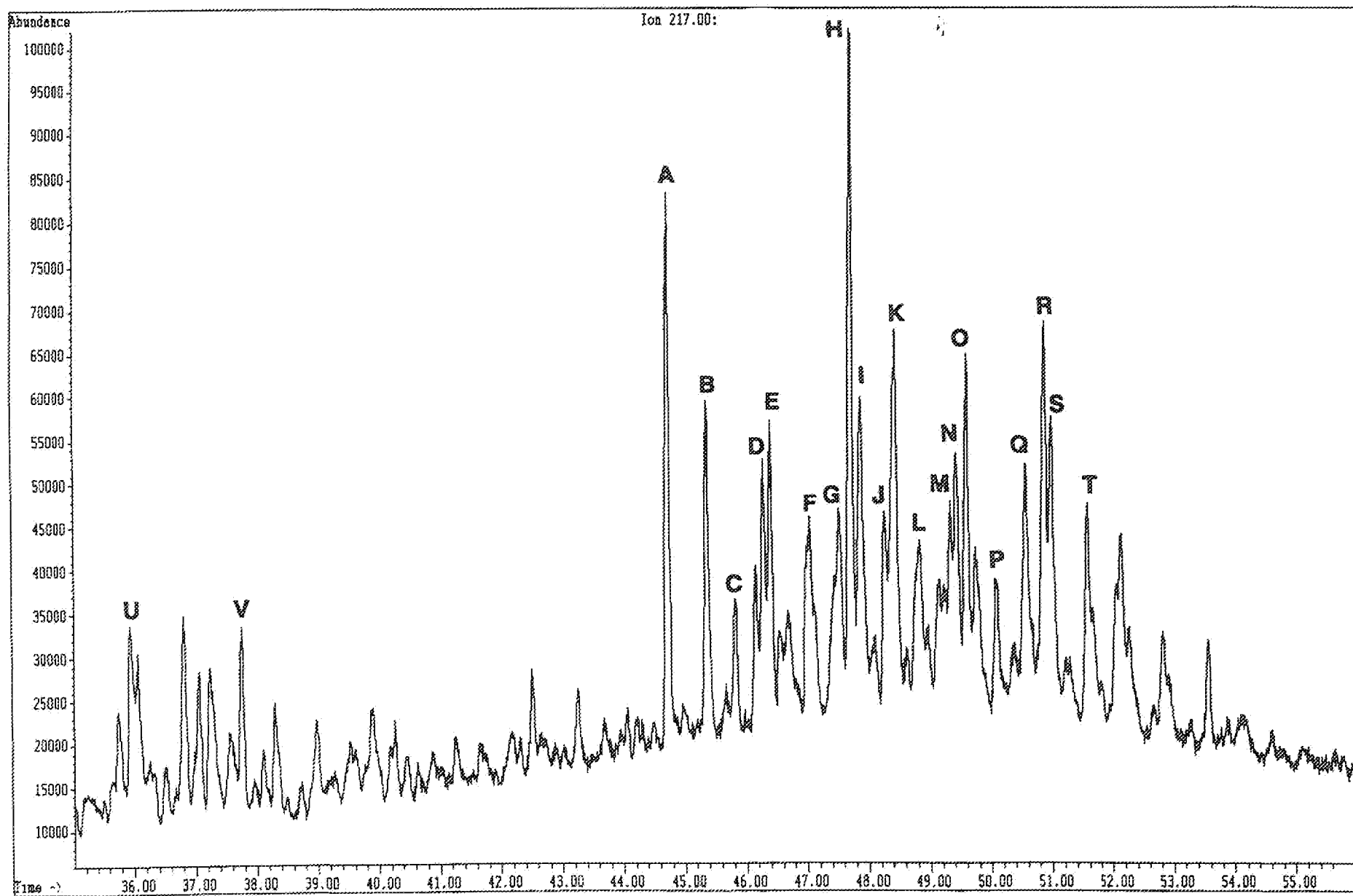
File: D:\CHEMPC\DATA\5901008.D
Operator:
Date Acquired:
Method File Name: BIOMY.M
Sample Name: 4071-001A
Misc Info:
Bottle Number: 59

Figure: C3.11
Well: 34/4-5
Depth: 3475.90m



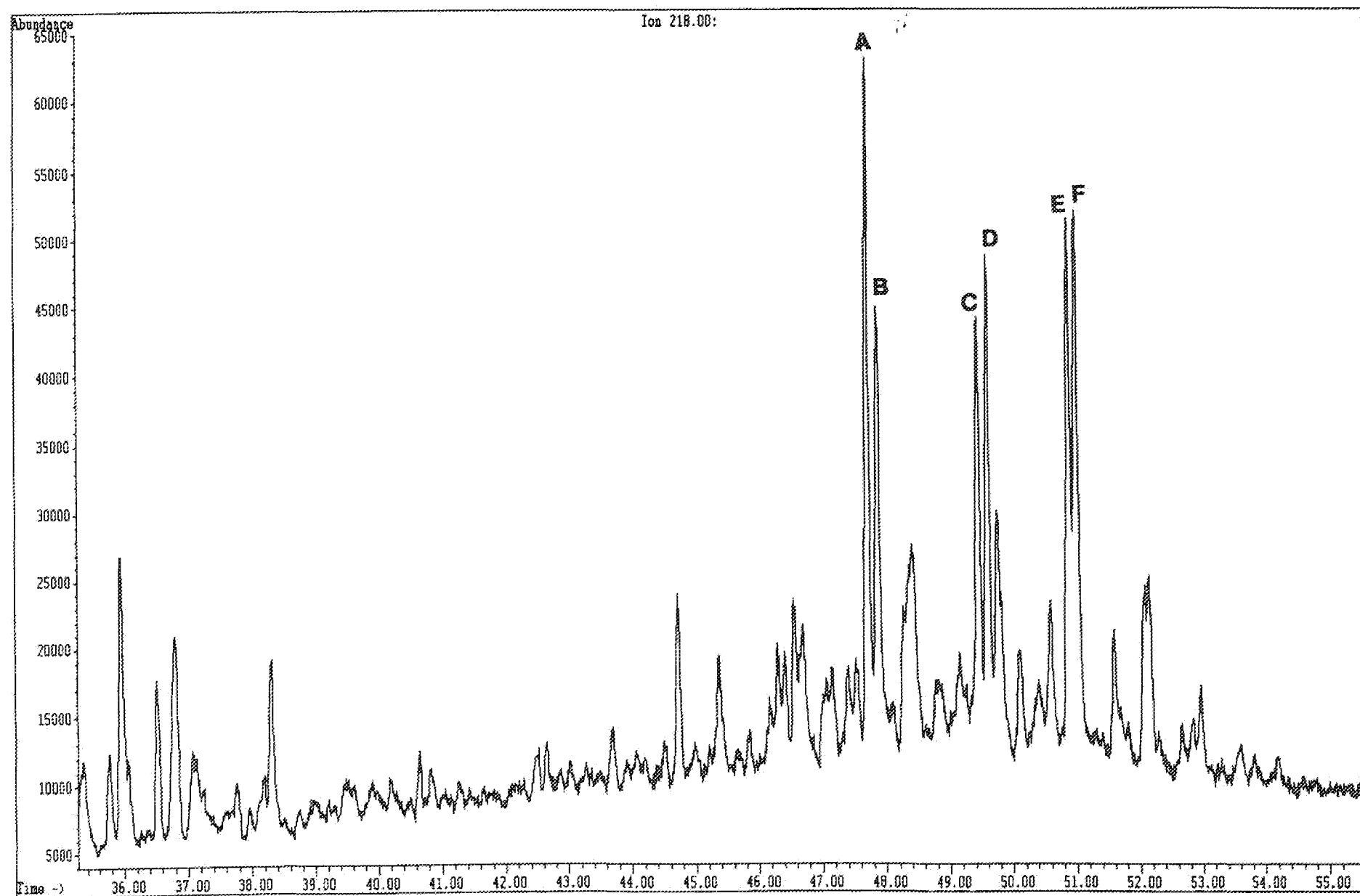
File: D:\CHEMPC\DATA\7401010.D
Operator:
Date Acquired: 8:45 pm
Method File Name: BIOW.M
Sample Name: 4071-002A
Misc Info:
Bottle Number: 74

Figure: C3.2a
Well: 34/4-5
Depth: 3478.50m



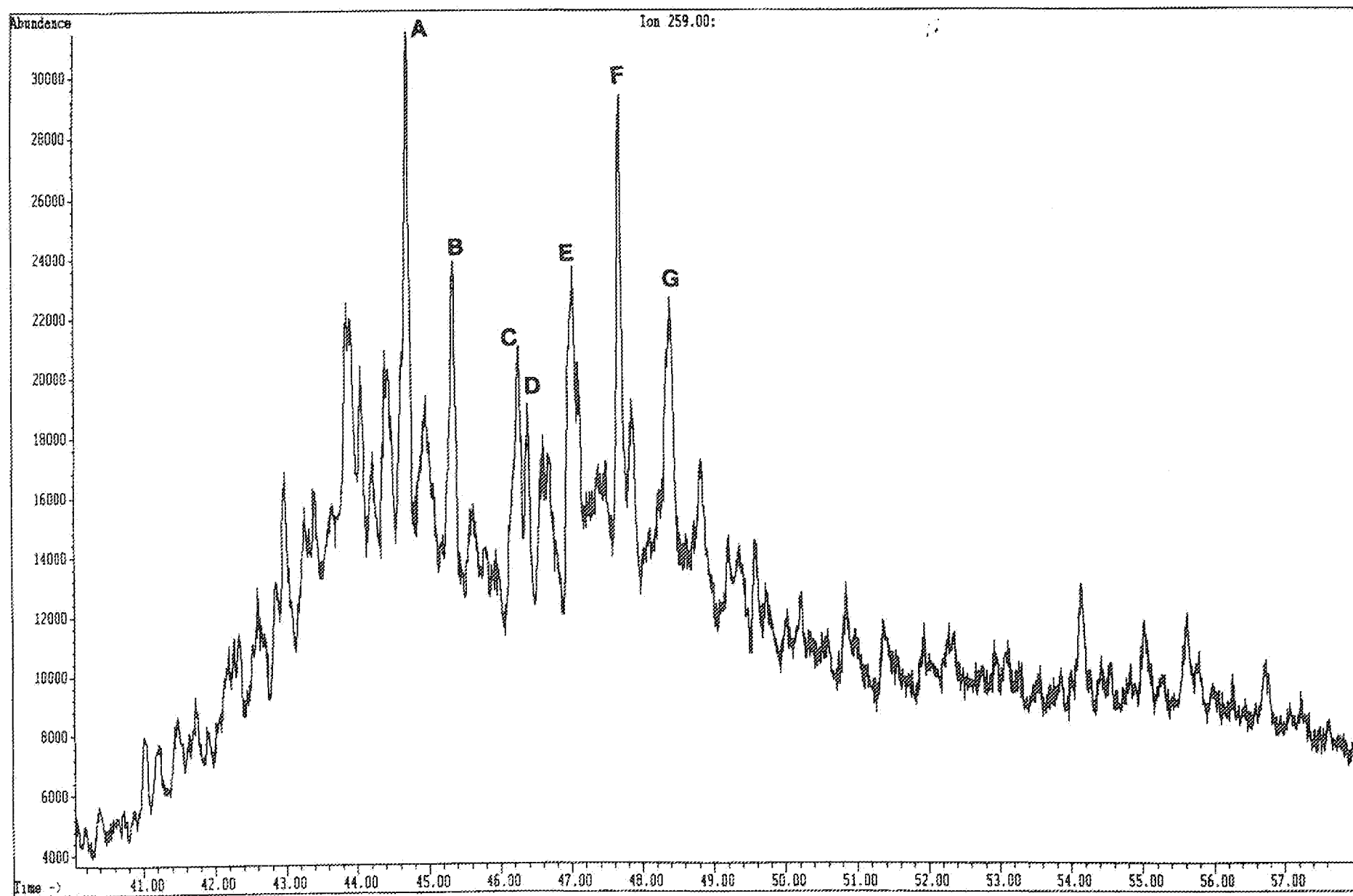
File: D:\CHEMPC\DATA\7401010.D
Operator:
Date Acquired: 8:45 pm
Method File Name: B10M.M
Sample Name: 4071-002A
Misc Info:
Bottle Number: 74

Figure: C3.2b
Well: 34/4-5
Depth: 3478.50m



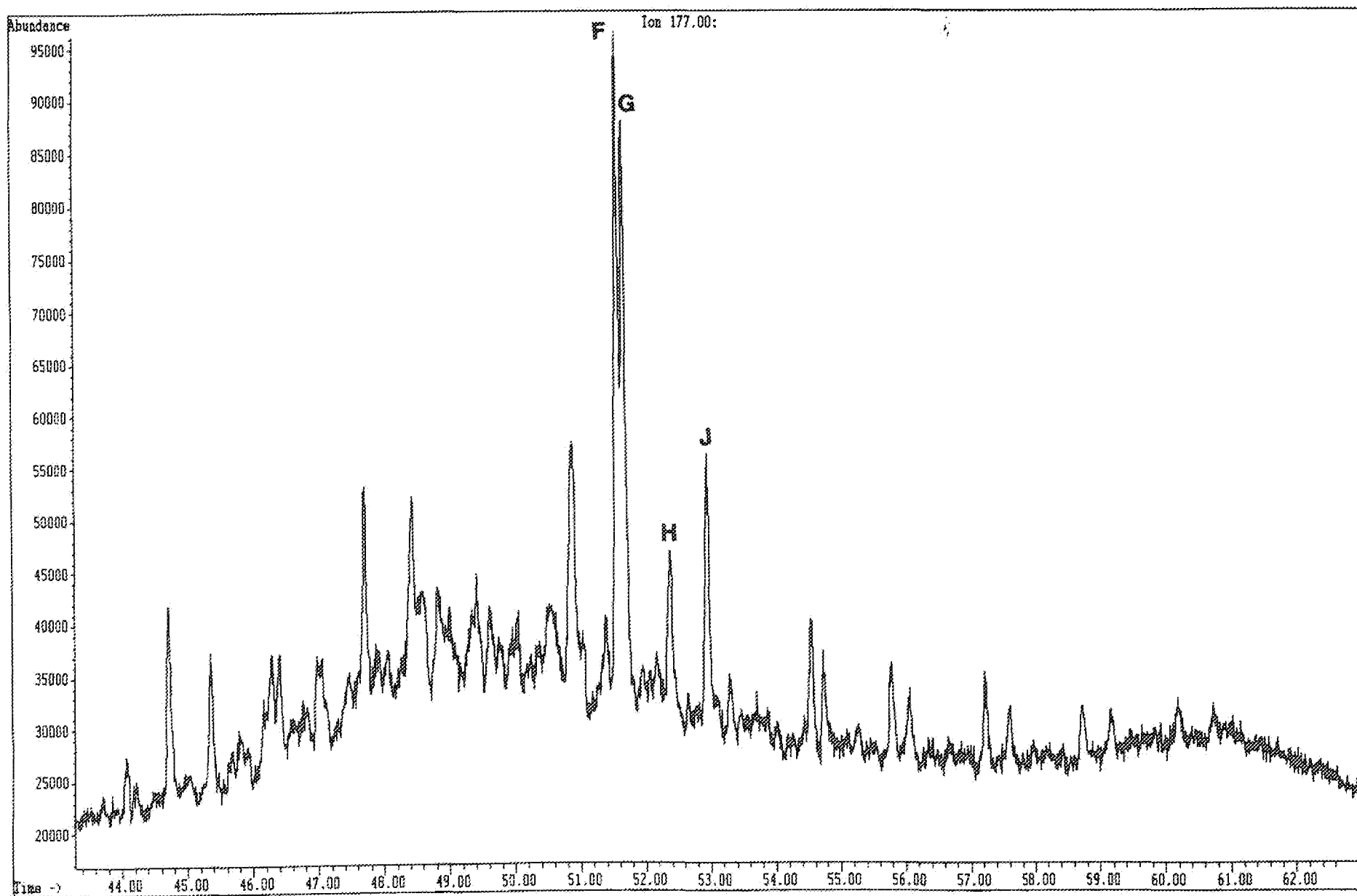
File: D:\CHEMPC\DATA\7401010.D
Operator:
Date Acquired: 8:45 pm
Method File Name: B10M.M
Sample Name: 4071-002A
Misc Info:
Bottle Number: 74

Figure: C3.2c
Well: 34/4-5
Depth: 3478.50m



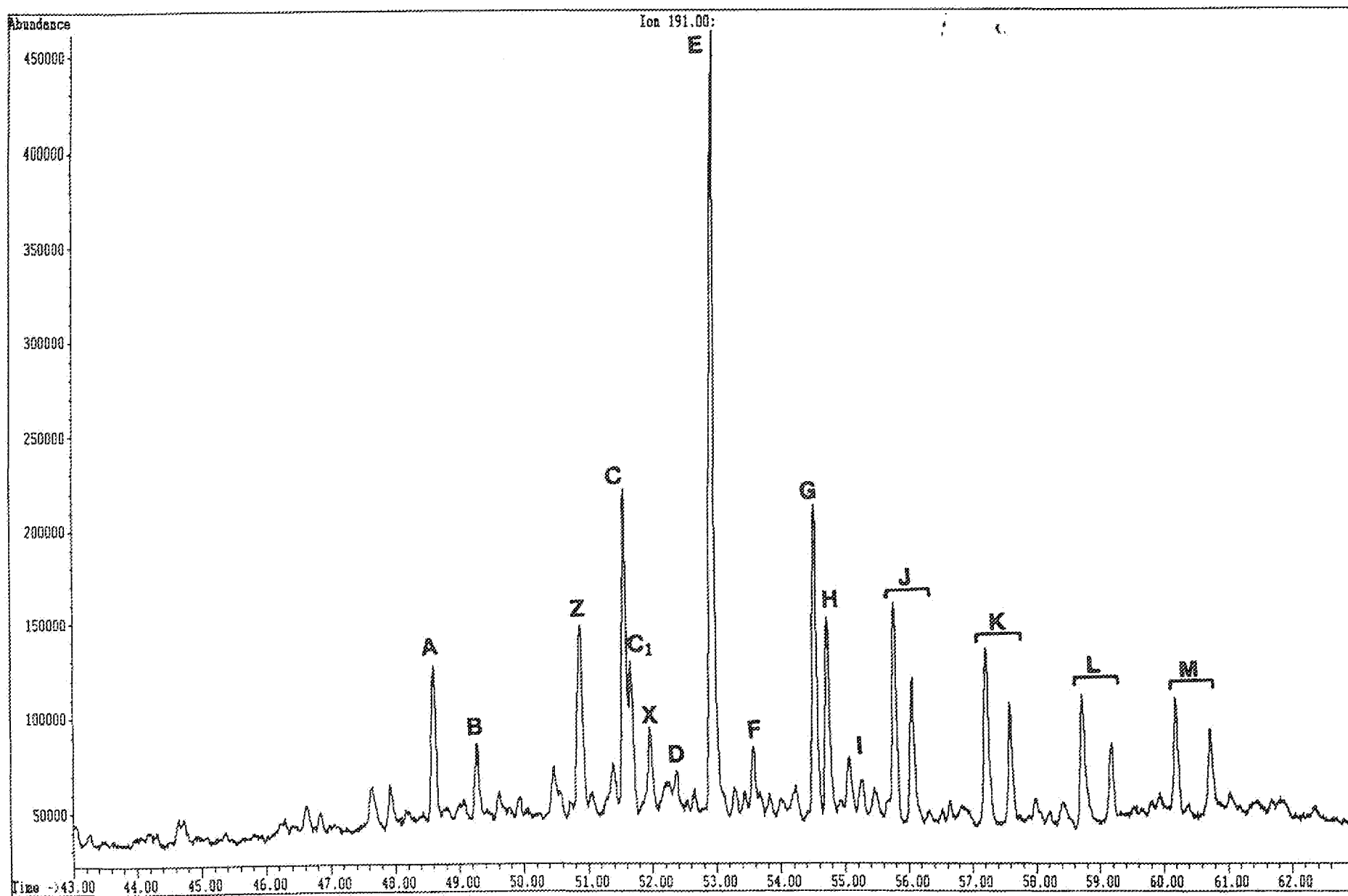
File: D:\CHEMPC\DATA\7401010.D
Operator:
Date Acquired: 8:45 pm
Method File Name: BION.M
Sample Name: 4071-002A
Misc Info:
Bottle Number: 74

Figure: C3.2d
Well: 34/4-5
Depth: 3478.50m



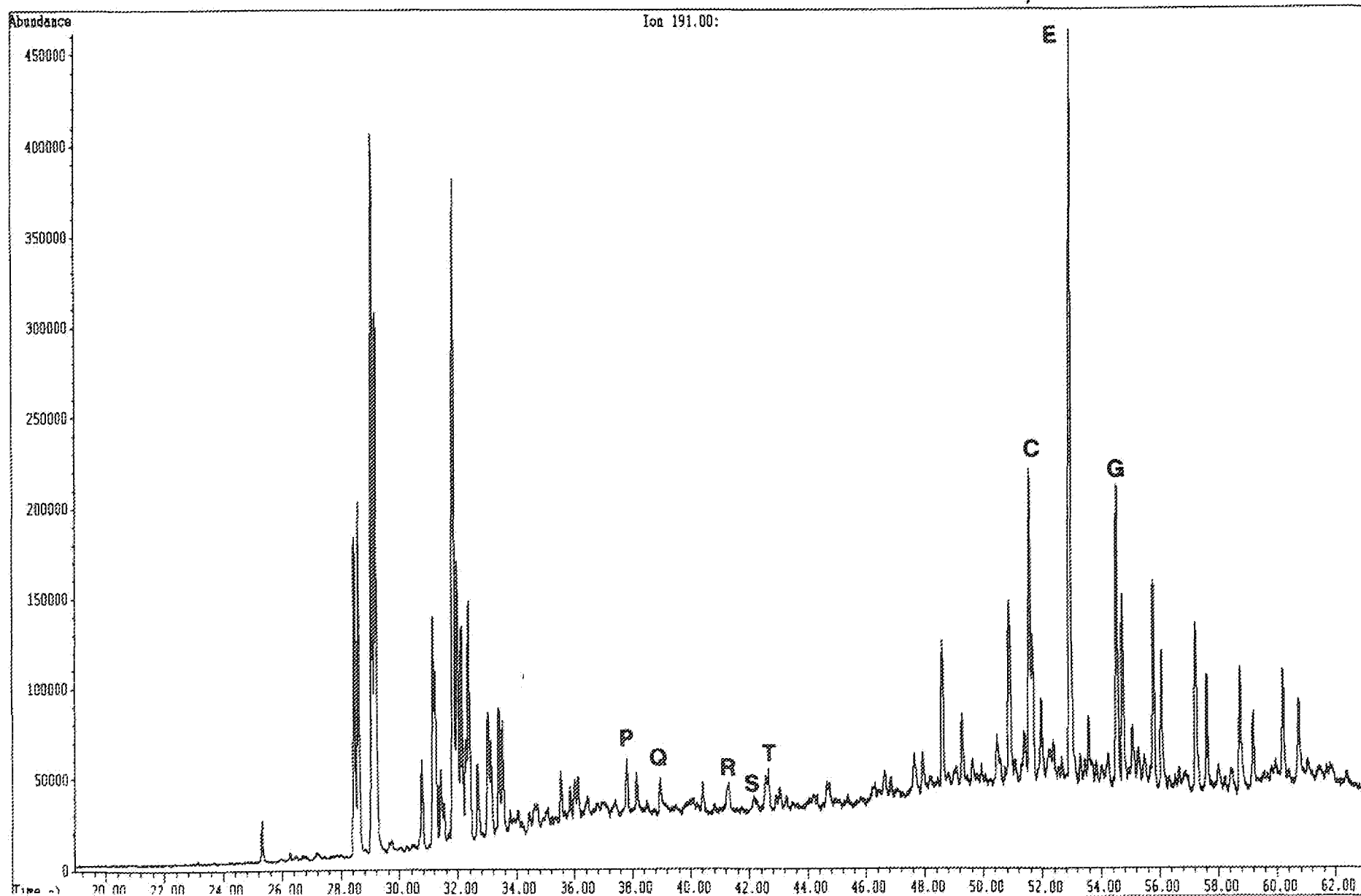
File: D:\CHEMPC\DATA\7401010.D
Operator:
Date Acquired: 8:45 pm
Method File Name: BIOM.M
Sample Name: 4071-002A
Misc Info:
Bottle Number: 74

Figure: C3.2e
Well: 34/4-5
Depth: 3478.50m



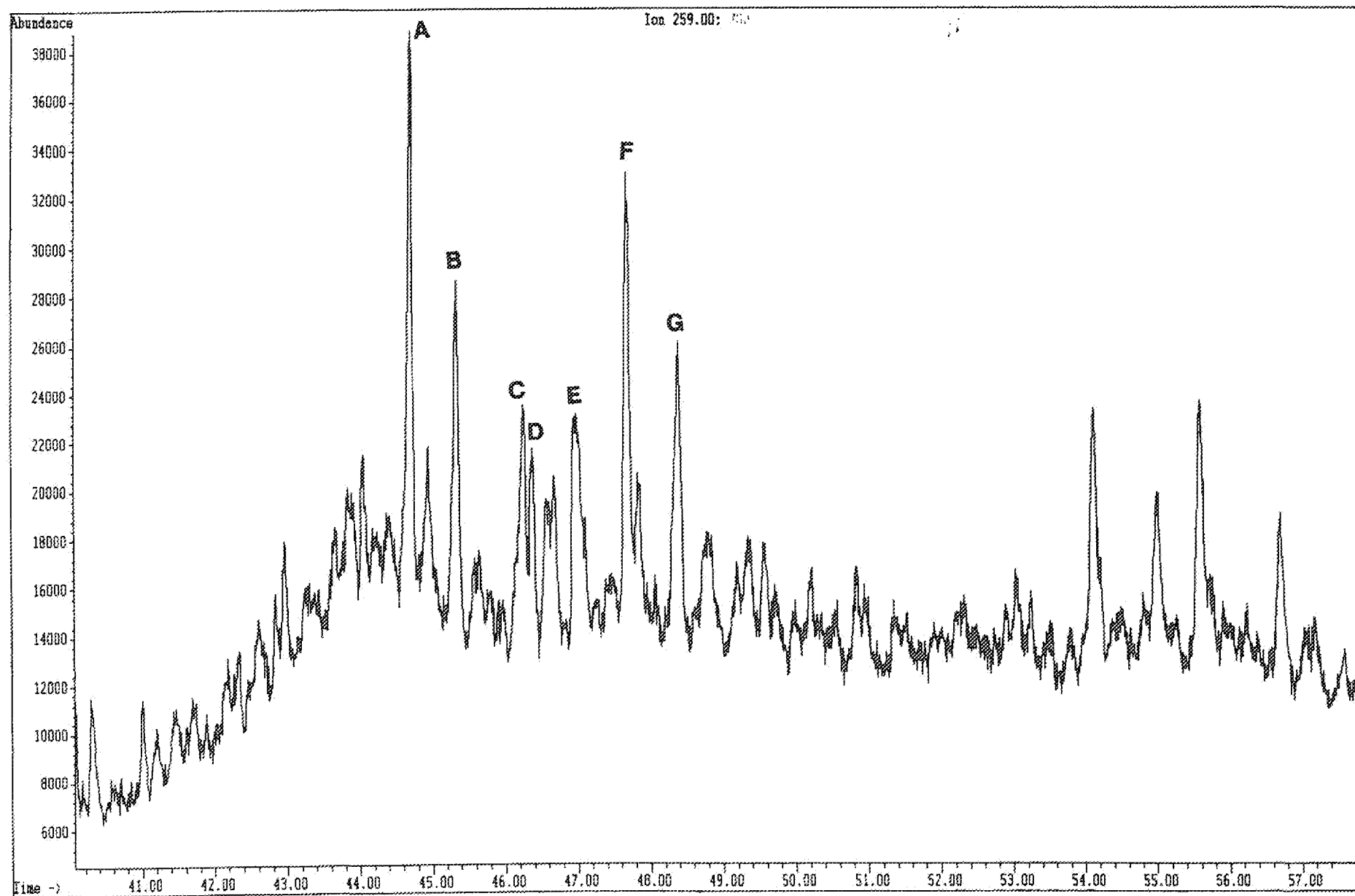
File: D:\CHEMPC\DATA\7401010.D
Operator:
Date Acquired: 8:45 pm
Method File Name: EICW.M
Sample Name: 4071-002A
Misc Info:
Bottle Number: 74

Figure: C3.2f
Well: 34/4-5
Depth: 3478.50m



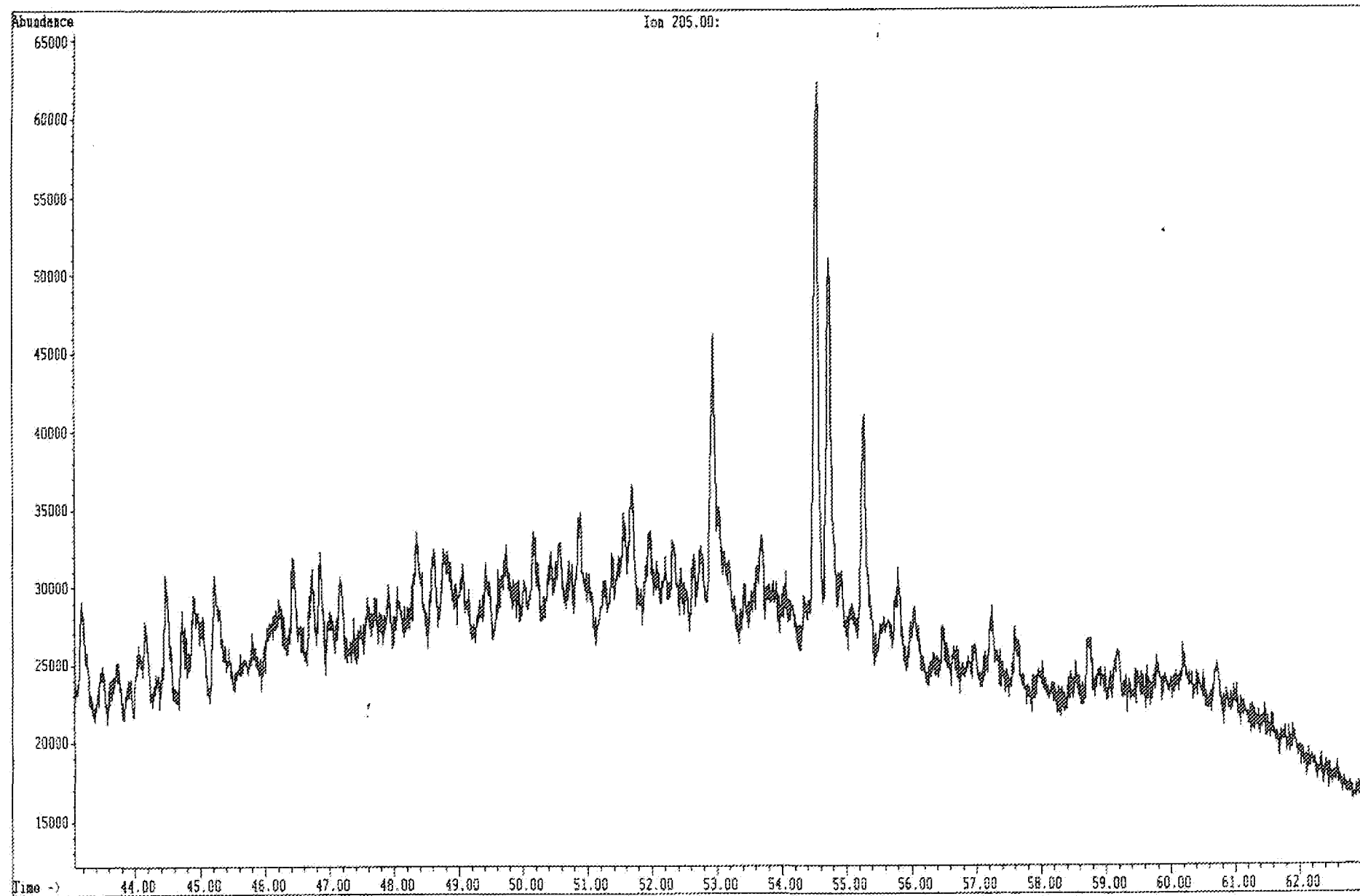
File: D:\CHEMPC\DATA\7001006.D
Operator:
Date Acquired:
Method File Name: BIOM.M
Sample Name: 4069-006A
Misc Info:
Bottle Number: 70

Figure: A3.6c
Well: 34/7-13
Depth: 2514.50m



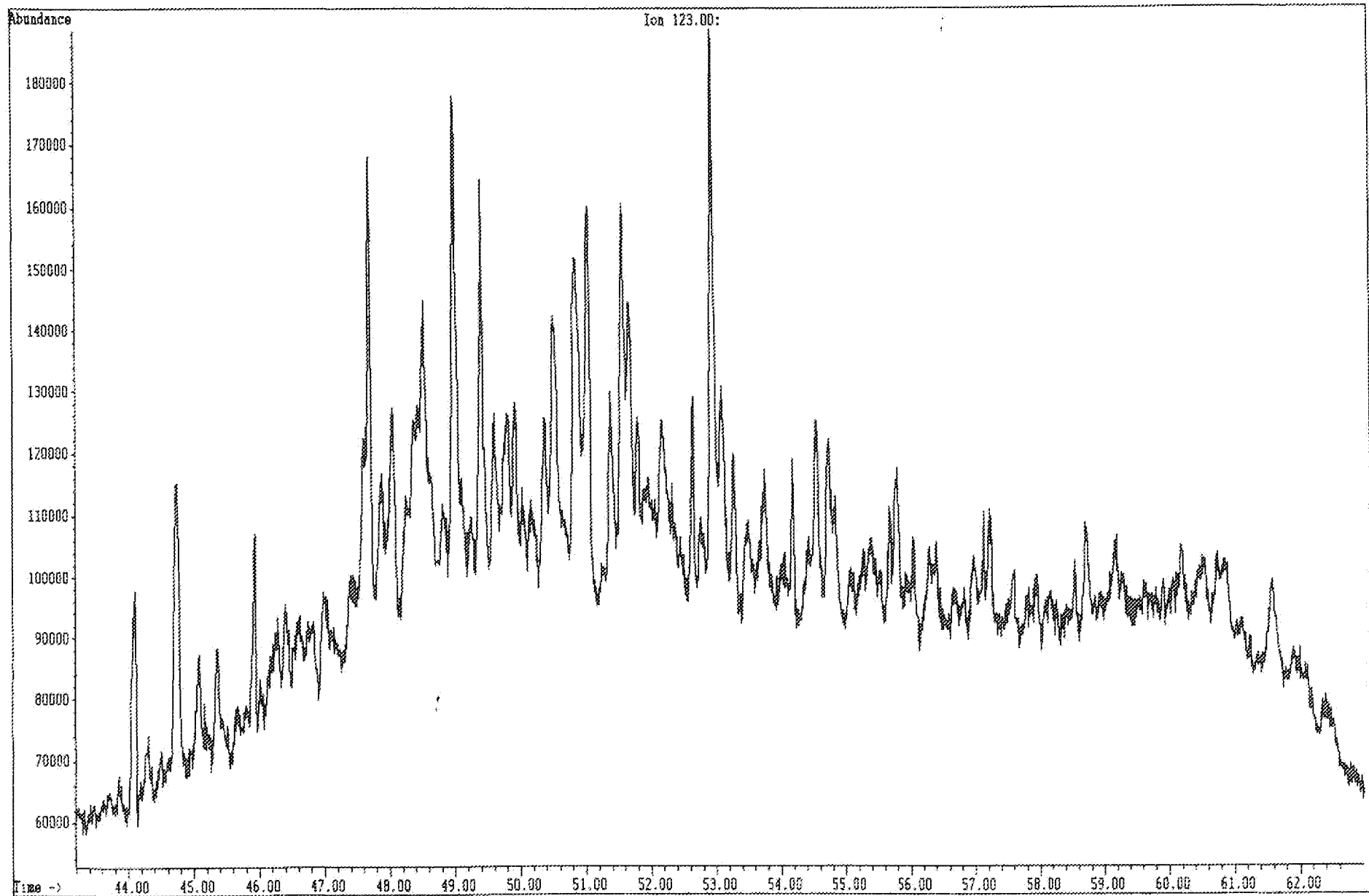
File: D:\CHEMPC\DATA\7401010.D
Operator:
Date Acquired: 8:45 pm
Method File Name: BIOM.M
Sample Name: 4071-002A
Misc Info:
Bottle Number: 74

Figure: C3.2g
Well: 34/4-5
Depth: 3478.50m



File: D:\CHEMPC\DATA\7401010.D
Operator:
Date Acquired: 8:45 pm
Method File Name: BIOM.M
Sample Name: 4071-002A
Misc Info:
Bottle Number: 74

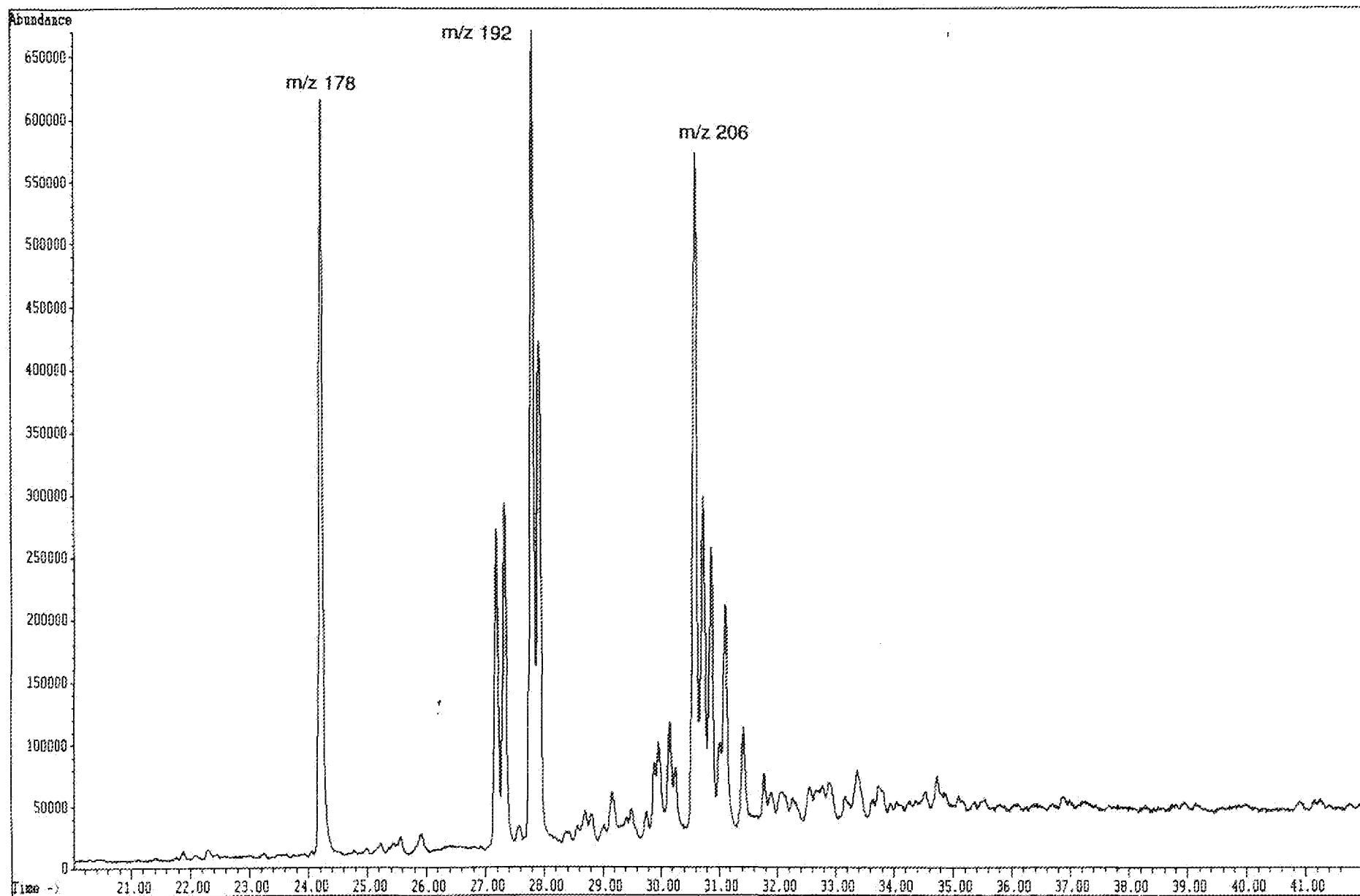
Figure: C3.2h
Well: 34/4-5
Depth: 3478.50m



File: D:\CHEMPC\DATA\6001009.D
Operator:
Date Acquired:
Method File Name: BIONY.M
Sample Name: 4071-002A
Misc Info:
Bottle Number: 60

Figure: C3.2i
Well: 34/4-5
Depth: 3478.50m

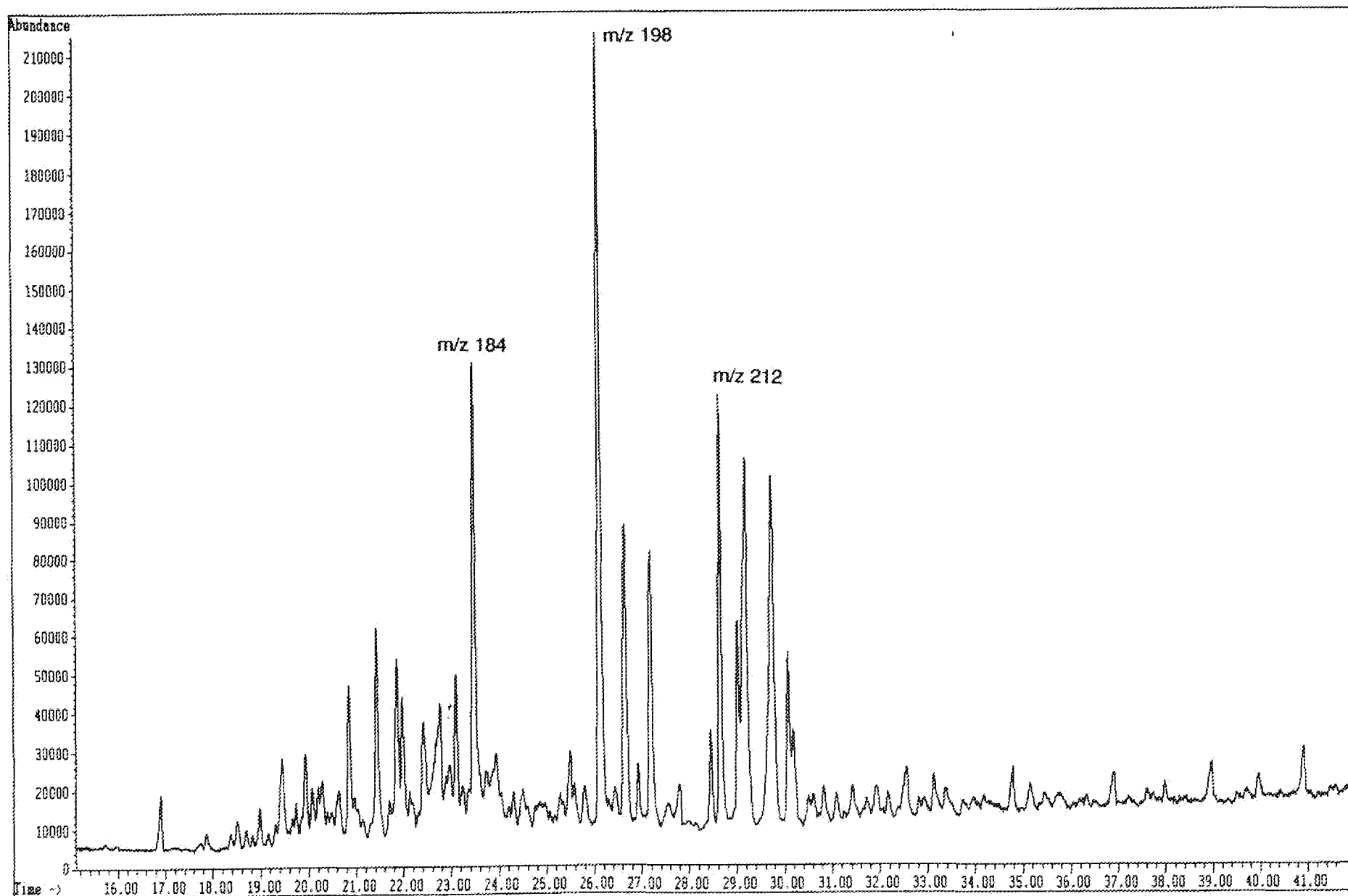
Phenanthrenes



File: D:\CHEMPC\DATA\6001039.D
Operator:
Date Acquired:
Method File Name: BIOMY.M
Sample Name: 4071-002A
Misc Info:
Bottle Number: 60

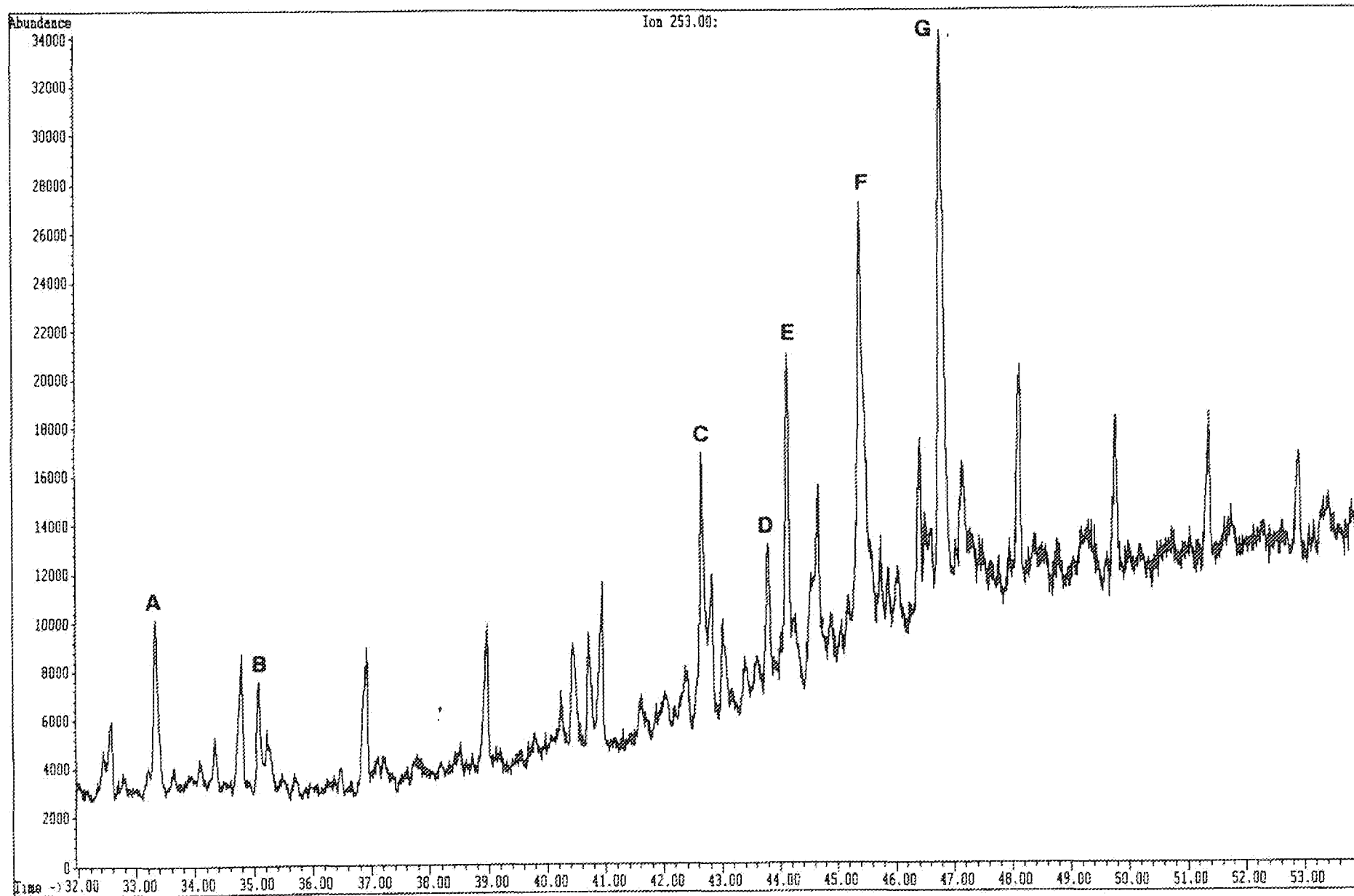
Dibenzothiophenes

Figure: C3.2j
Well: 34/4-5
Depth: 3478.50m



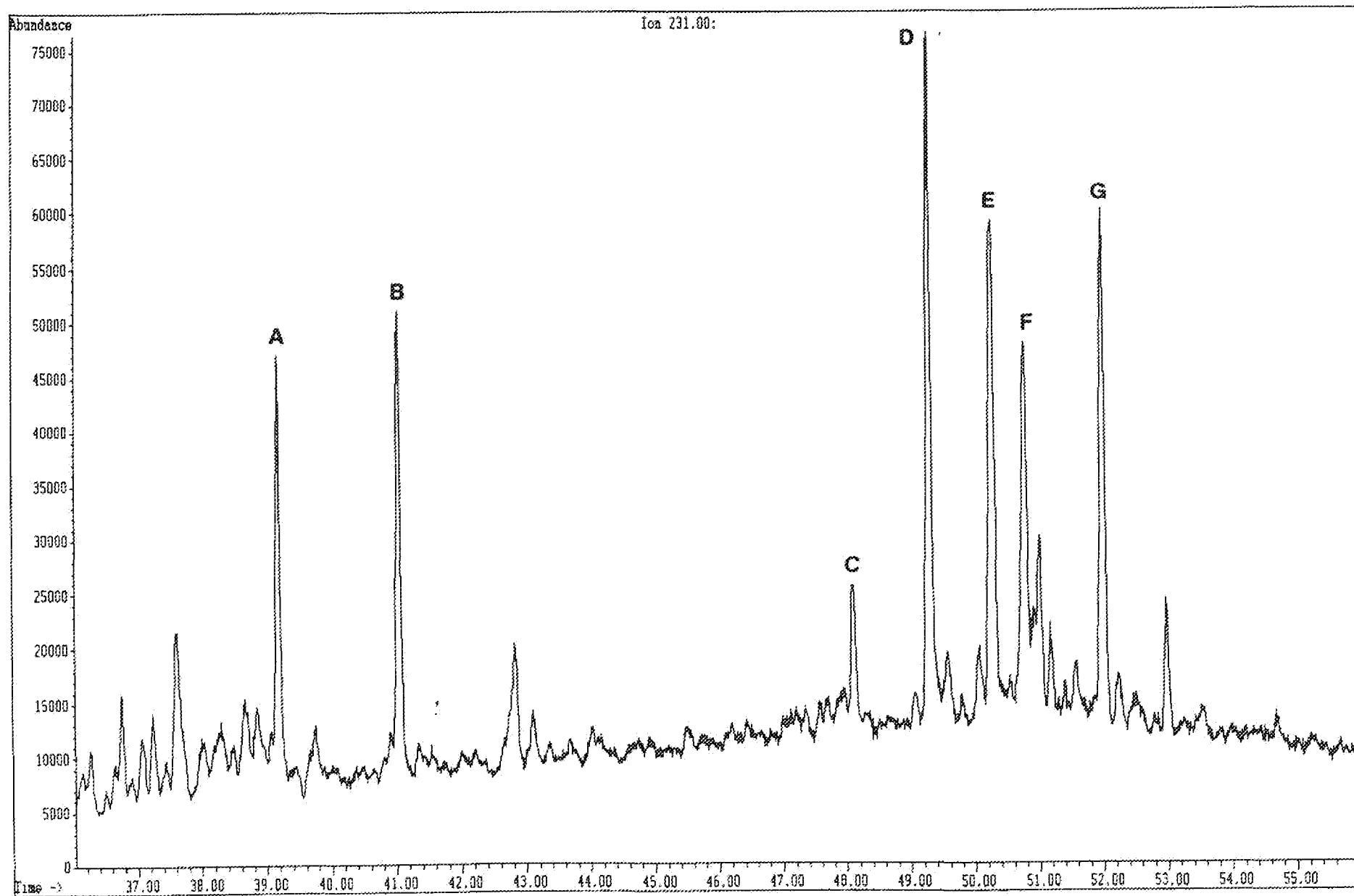
File: D:\CHEMPC\DATA\6001009.D
Operator:
Date Acquired:
Method File Name: BIOMY.M
Sample Name: 4071-002A
Misc Info:
Bottle Number: 60

Figure: C3.2k
Well: 34/4-5
Depth: 3478.50m



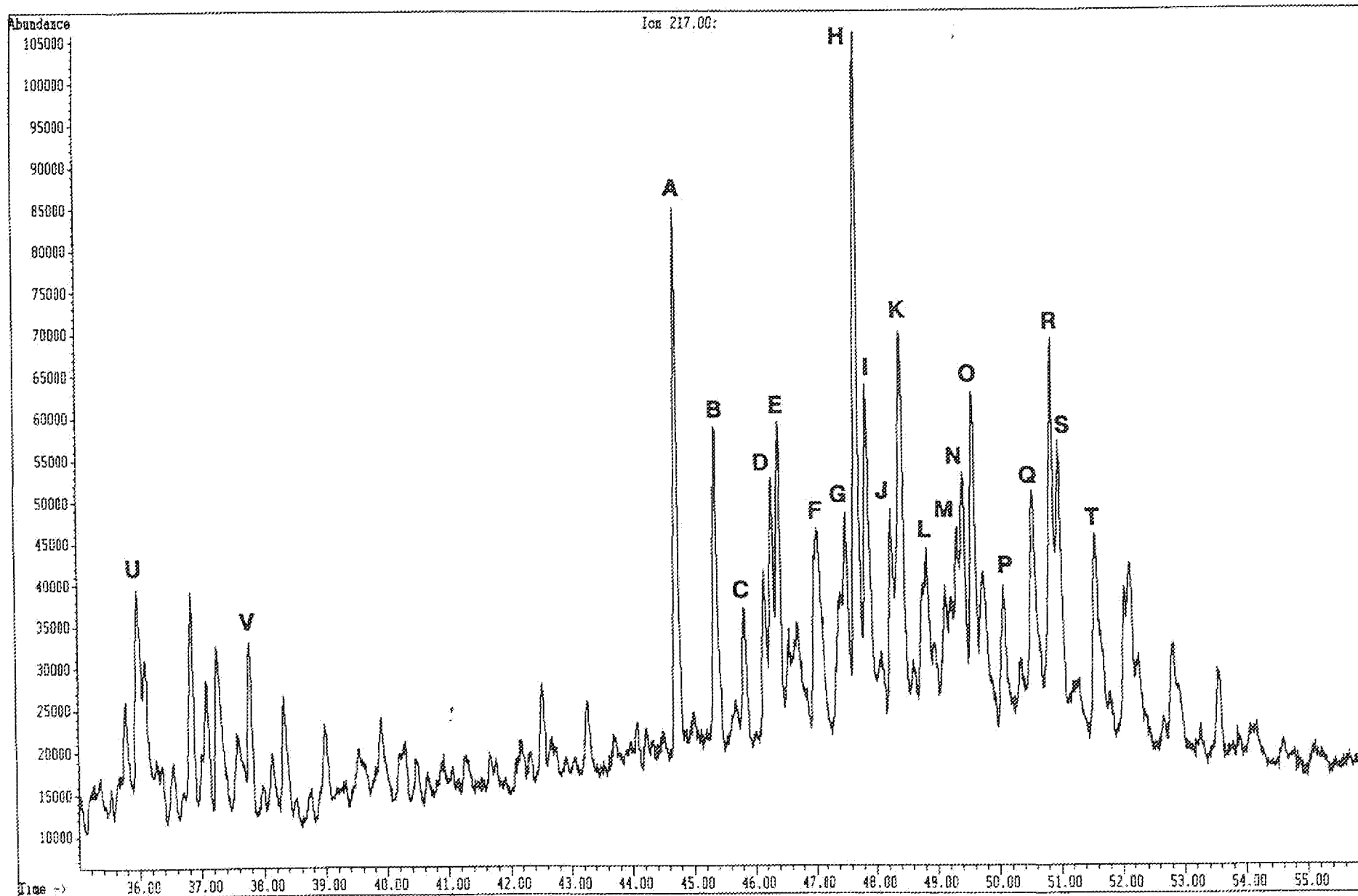
File: D:\CHEMPC\DATA\6081009.D
Operator:
Date Acquired:
Method File Name: BIOMY.M
Sample Name: 4071-002A
Misc Info:
Bottle Number: 60

Figure: C3.2l
Well: 34/4-5
Depth: 3478.50m



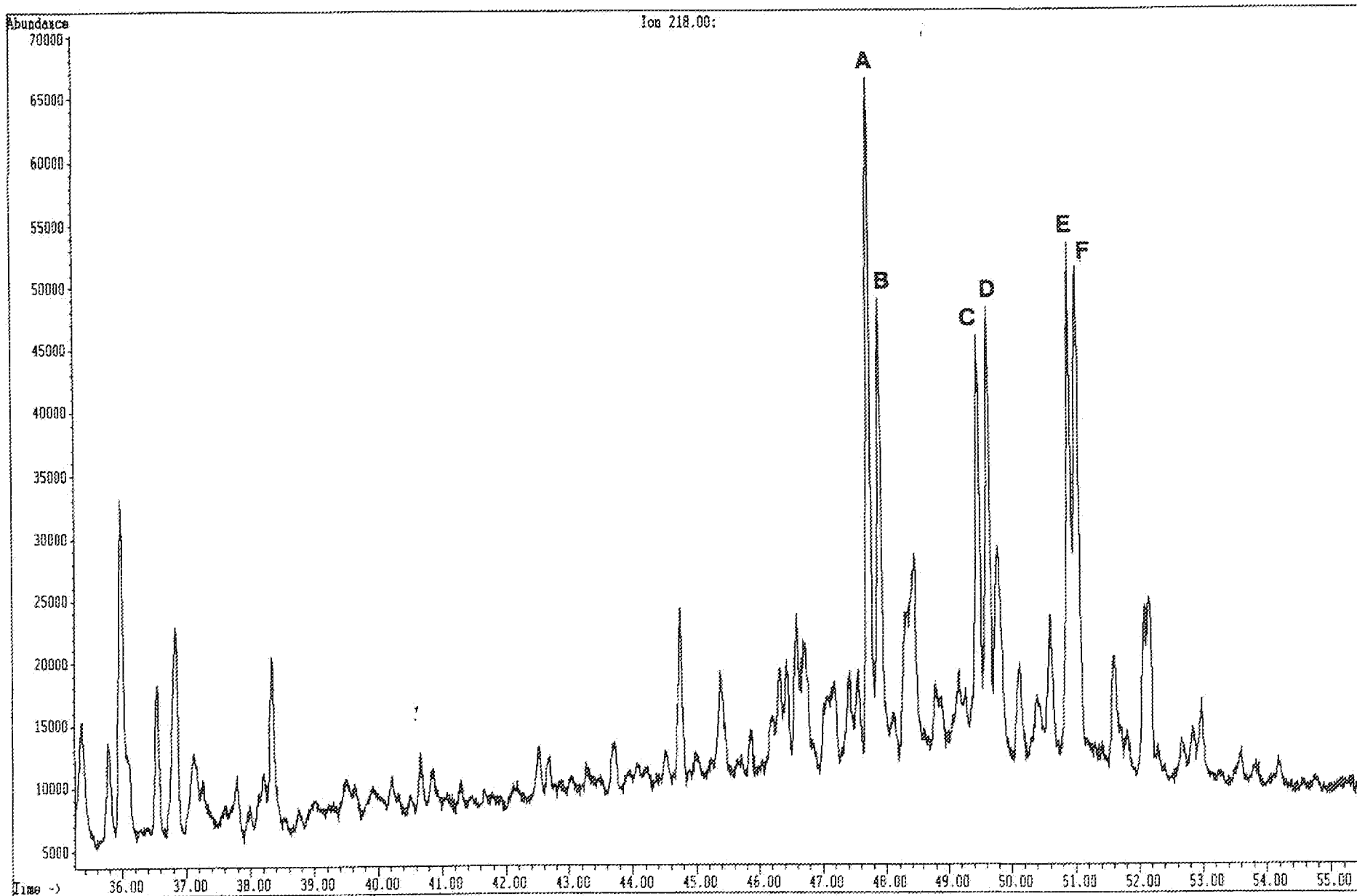
File: D:\CHEMPC\DATA\7501011.D
Operator:
Date Acquired: 9:55 pm
Method File Name: BIOM.M
Sample Name: 4071-003A
Misc Info:
Bottle Number: 75

Figure: C3.3a
Well: 34/4-5
Depth: 3584.80m



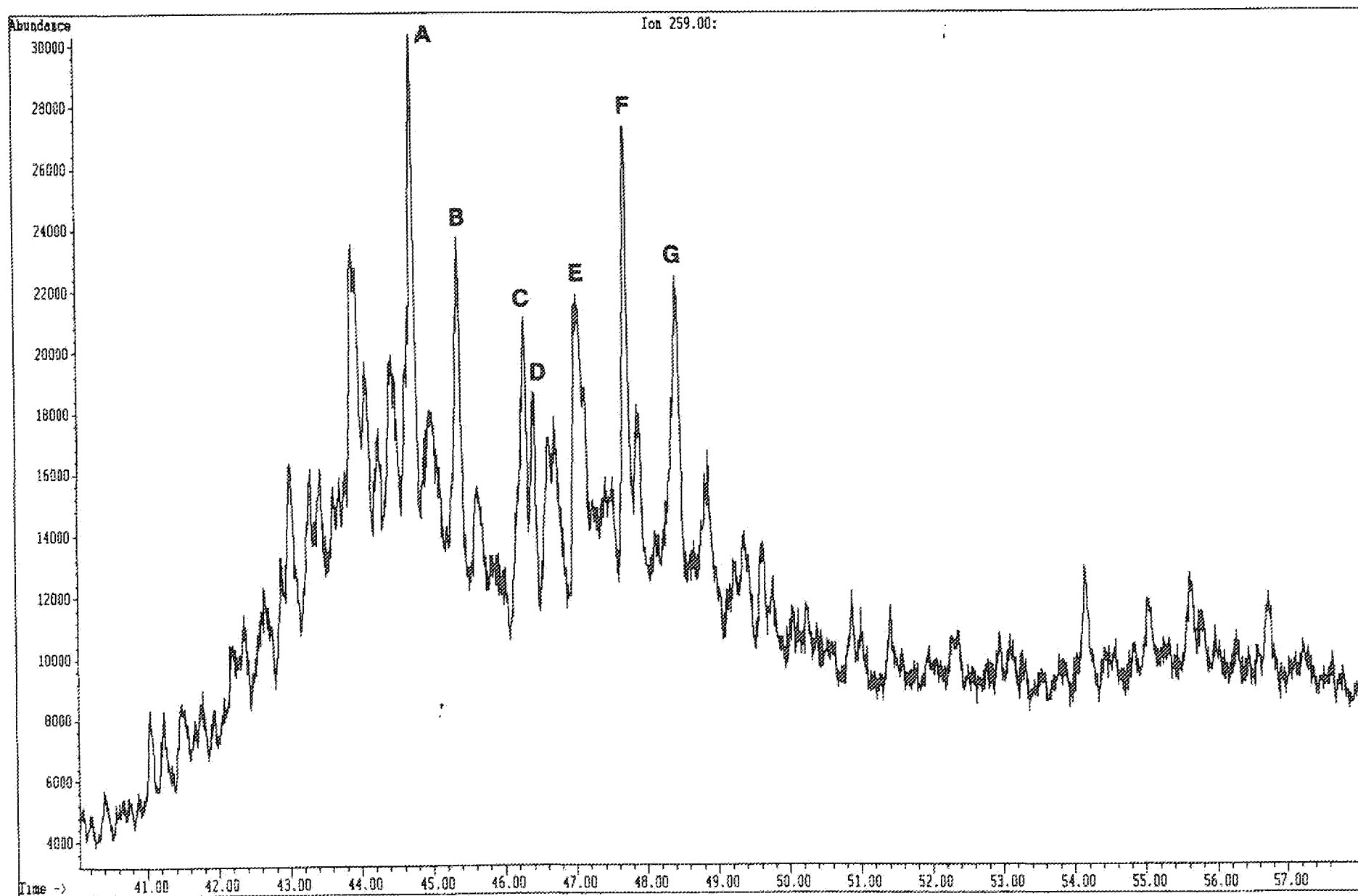
File: D:\CHEMPC\DATA\7501011.D
Operator:
Date Acquired: 9:55 pm
Method File Name: B10M.M
Sample Name: 4071-003A
Misc Info:
Bottle Number: 75

Figure: C3.3b
Well: 34/4-5
Depth: 3584.80m



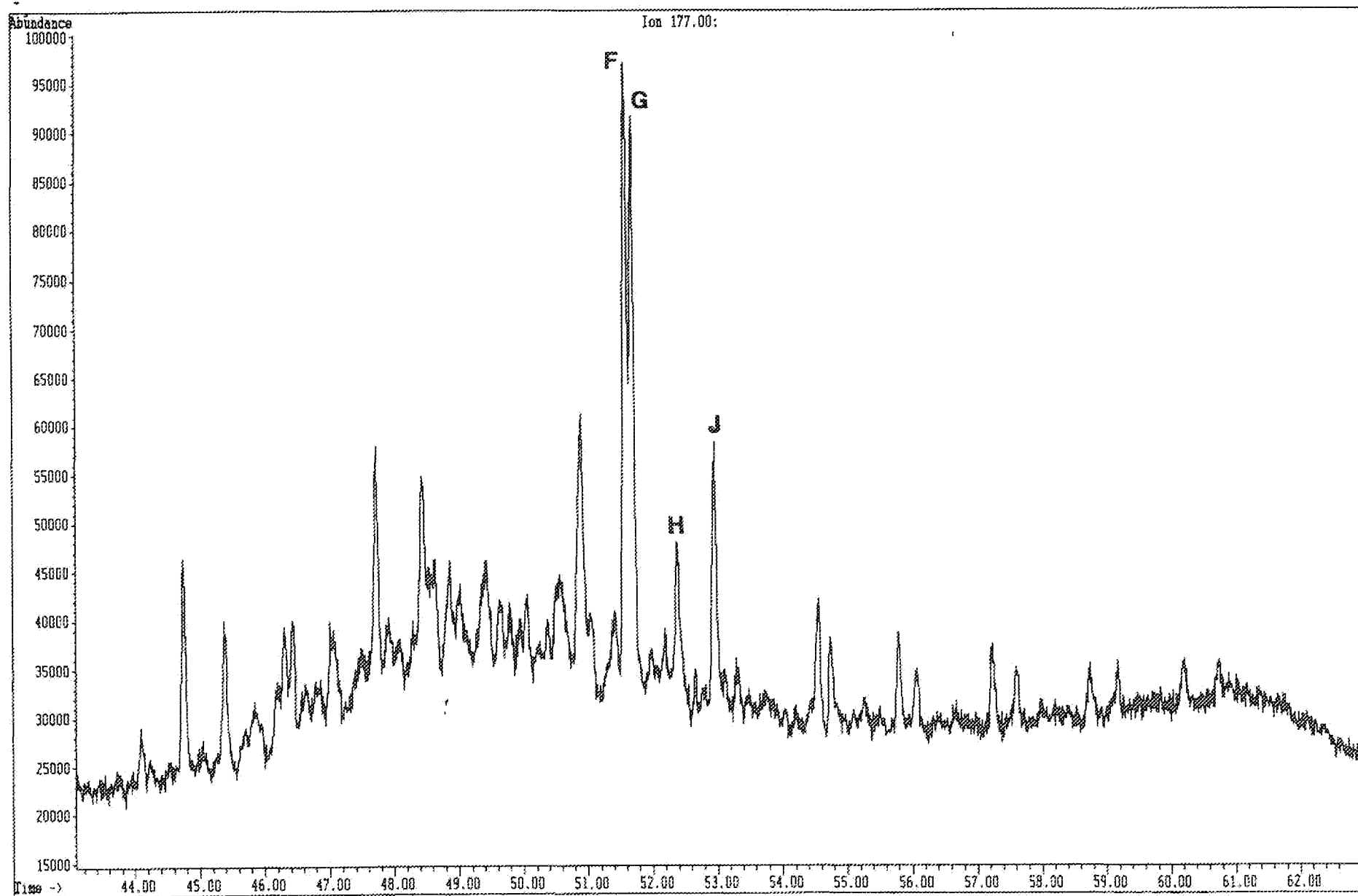
File: D:\CHEMPC\DATA\7501011.D
Operator:
Date Acquired: 9:55 pm
Method File Name: BIOW.M
Sample Name: 4071-003A
Misc Info:
Bottle Number: 75

Figure: C3.3c
Well: 34/4-5
Depth: 3584.80m



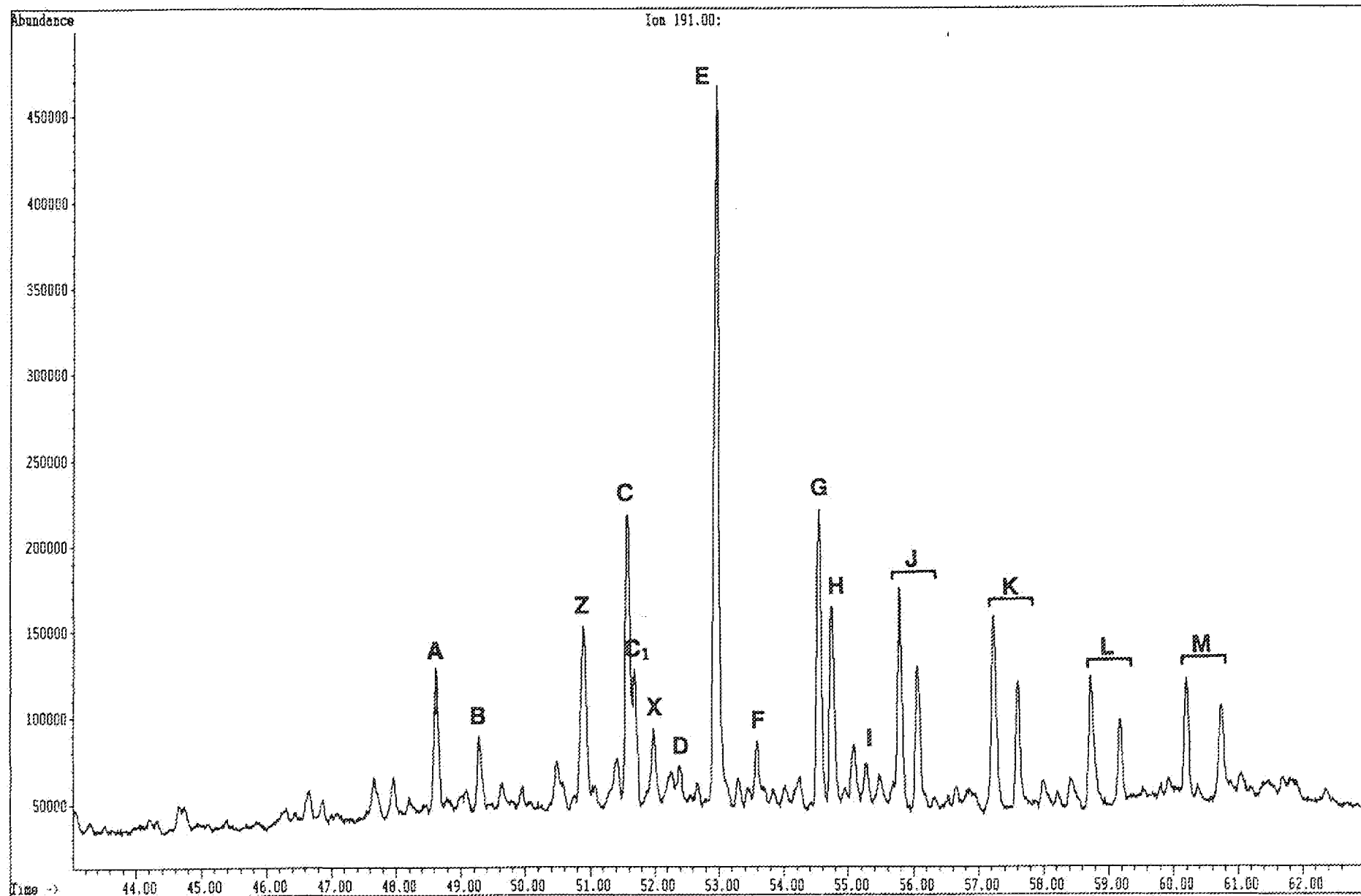
File: D:\CHEMPC\DATA\7501011.D
Operator:
Date Acquired: 9:55 pm
Method File Name: BIOM.M
Sample Name: 4071-003A
Misc Info:
Bottle Number: 75

Figure: C3.3d
Well: 34/4-5
Depth: 3584.80m



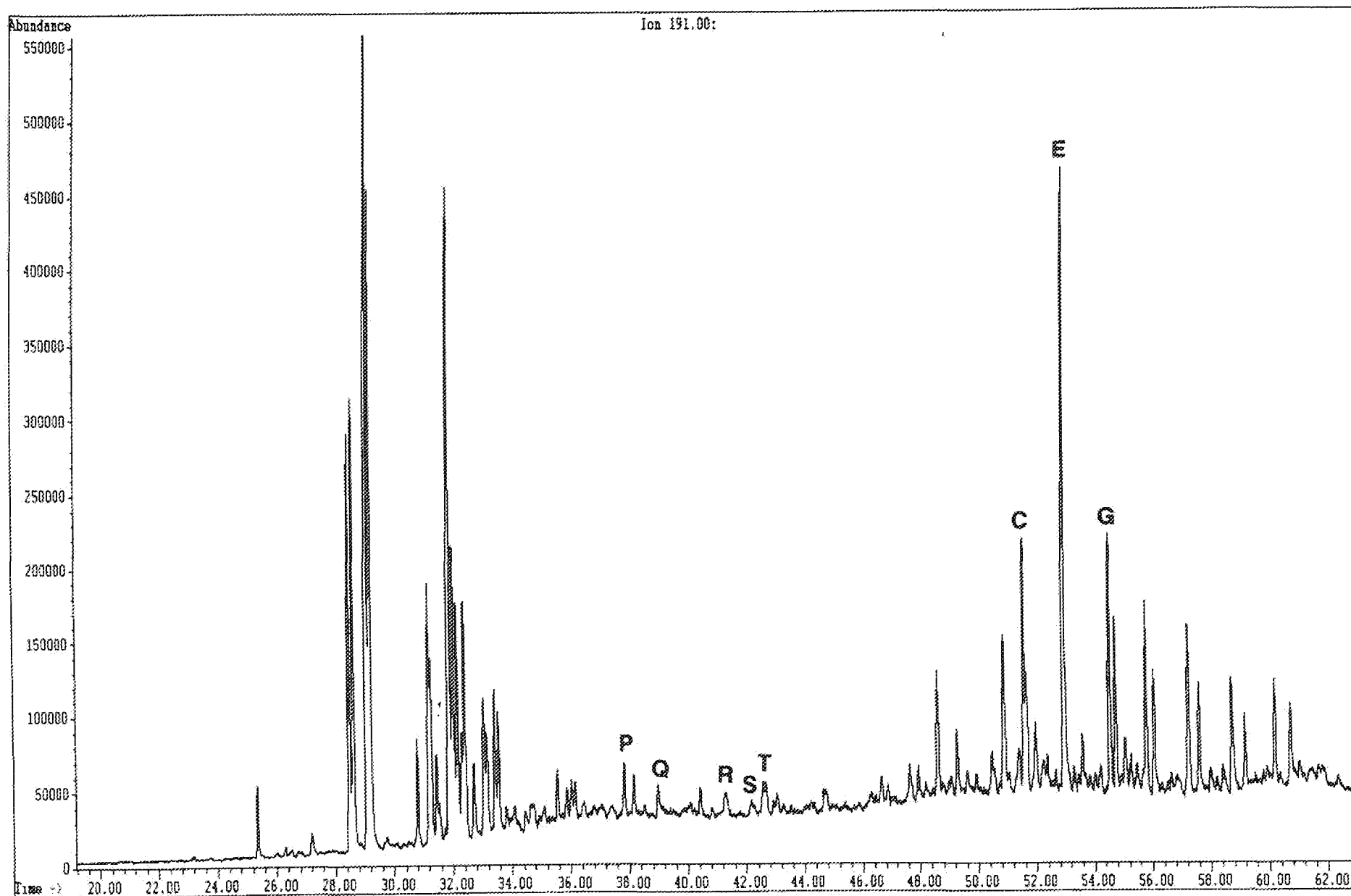
File: D:\CHEMPC\DATA\7501011.D
Operator:
Date Acquired: 9:55 pm
Method File Name: B10M.W
Sample Name: 4071-003A
Misc Info:
Bottle Number: 75

Figure: C3.3e
Well: 34/4-5
Depth: 3584.80m



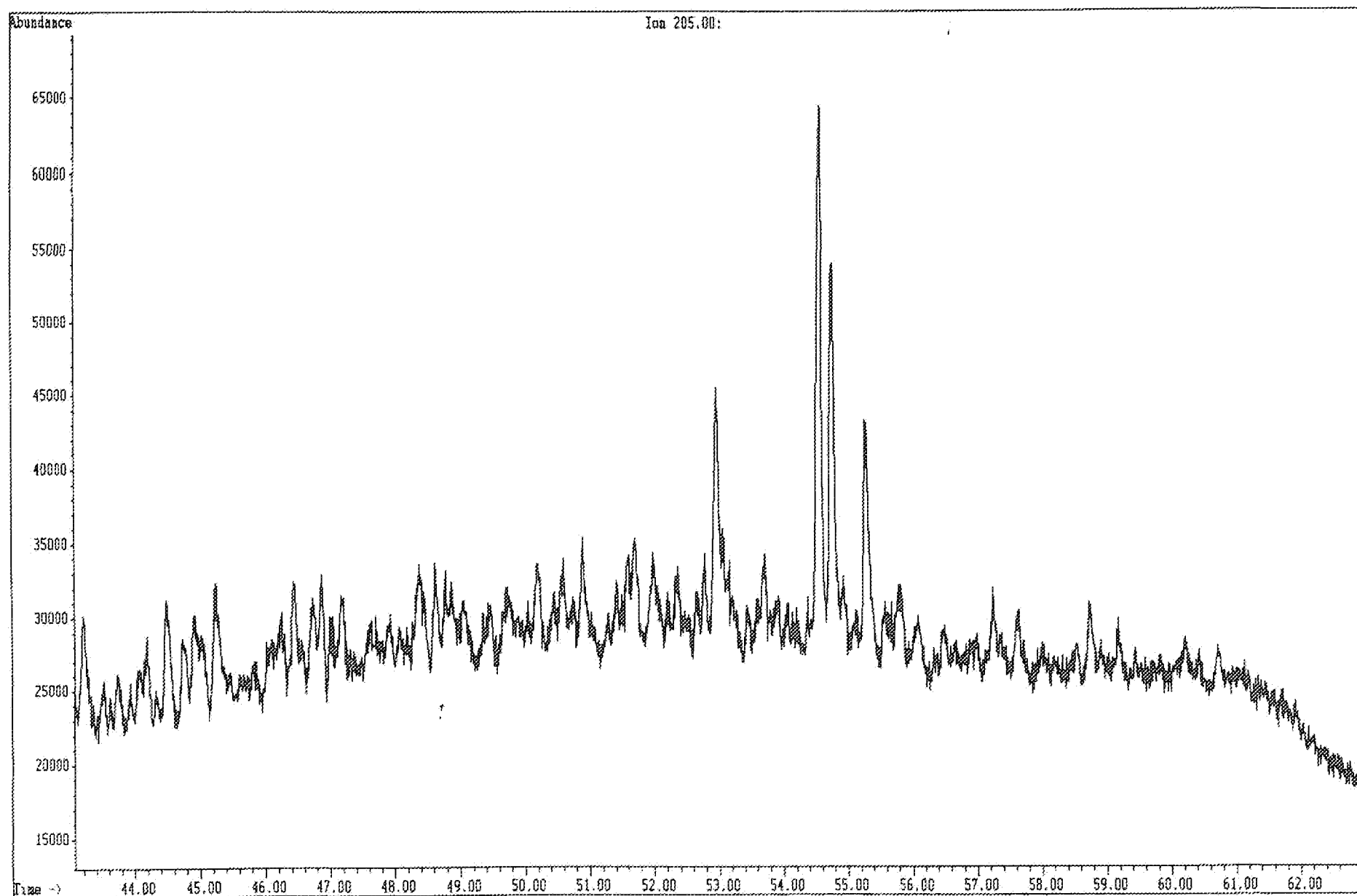
File: D:\CHEMPC\DATA\750101.D
Operator:
Date Acquired: 9:55 pm
Method File Name: BIOM.M
Sample Name: 4071-003A
Misc Info:
Bottle Number: 75

Figure: C3.3f
Well: 34/4-5
Depth: 3584.80m



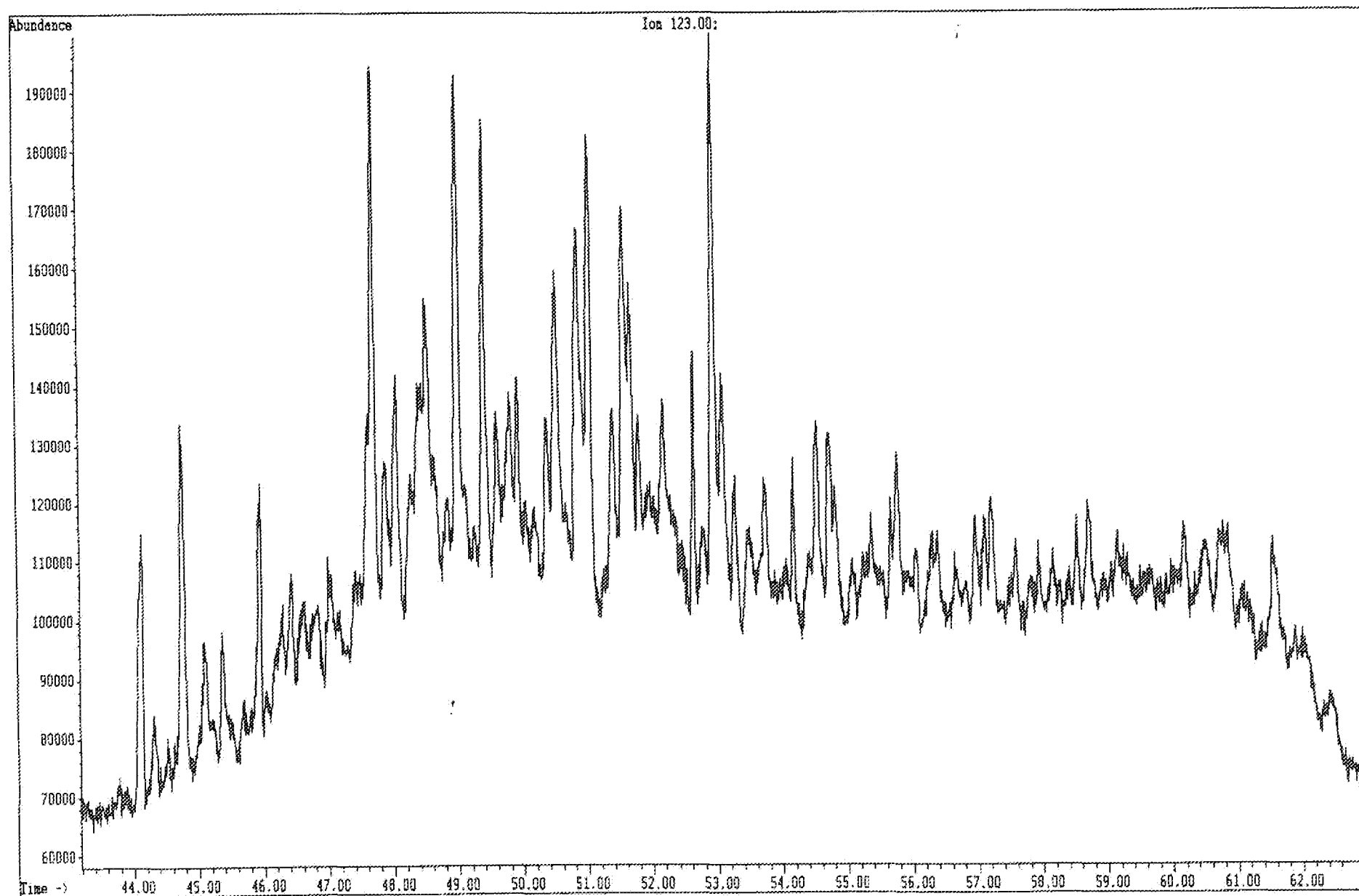
File: D:\CHEMPC\DATA\7501011.D
Operator:
Date Acquired: 9:55 pm
Method File Name: BICM.M
Sample Name: 4071-003A
Misc Info:
Bottle Number: 75

Figure: C3.3g
Well: 34/4-5
Depth: 3584.80m



File: D:\CHEMPC\DATA\7501011.D
Operator:
Date Acquired: 9:55 pm
Method File Name: B10M.M
Sample Name: 4071-003A
Misc Info:
Bottle Number: 75

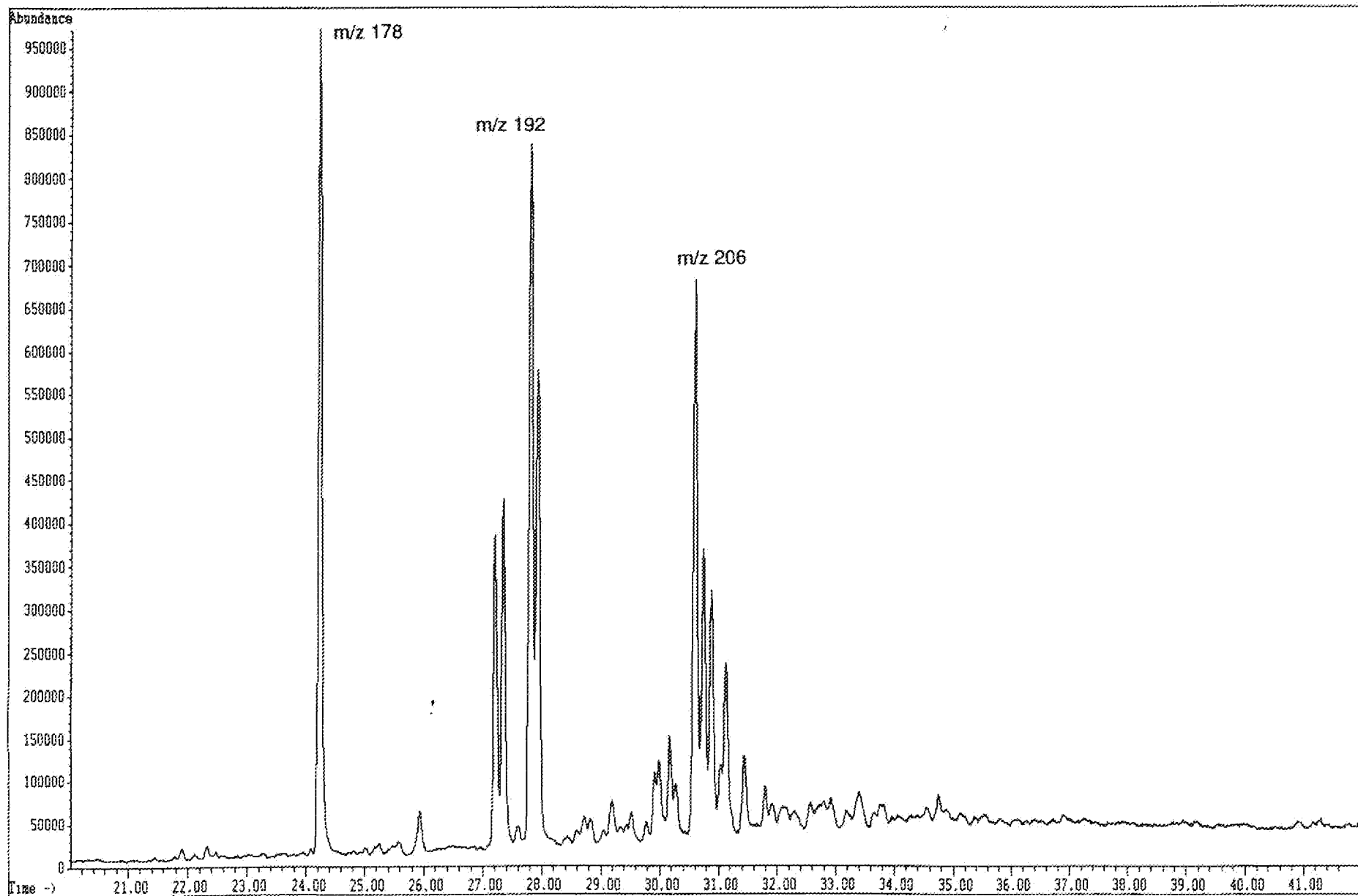
Figure: C3.3h
Well: 34/4-5
Depth: 3584.80m



File: D:\CHEMPC\DATA\6101010.D
Operator:
Date Acquired:
Method File Name: BIOMY.M
Sample Name: 4071-003A
Misc Info:
Bottle Number: 61

Figure: C3.3i
Well: 34/4-5
Depth: 3584.80m

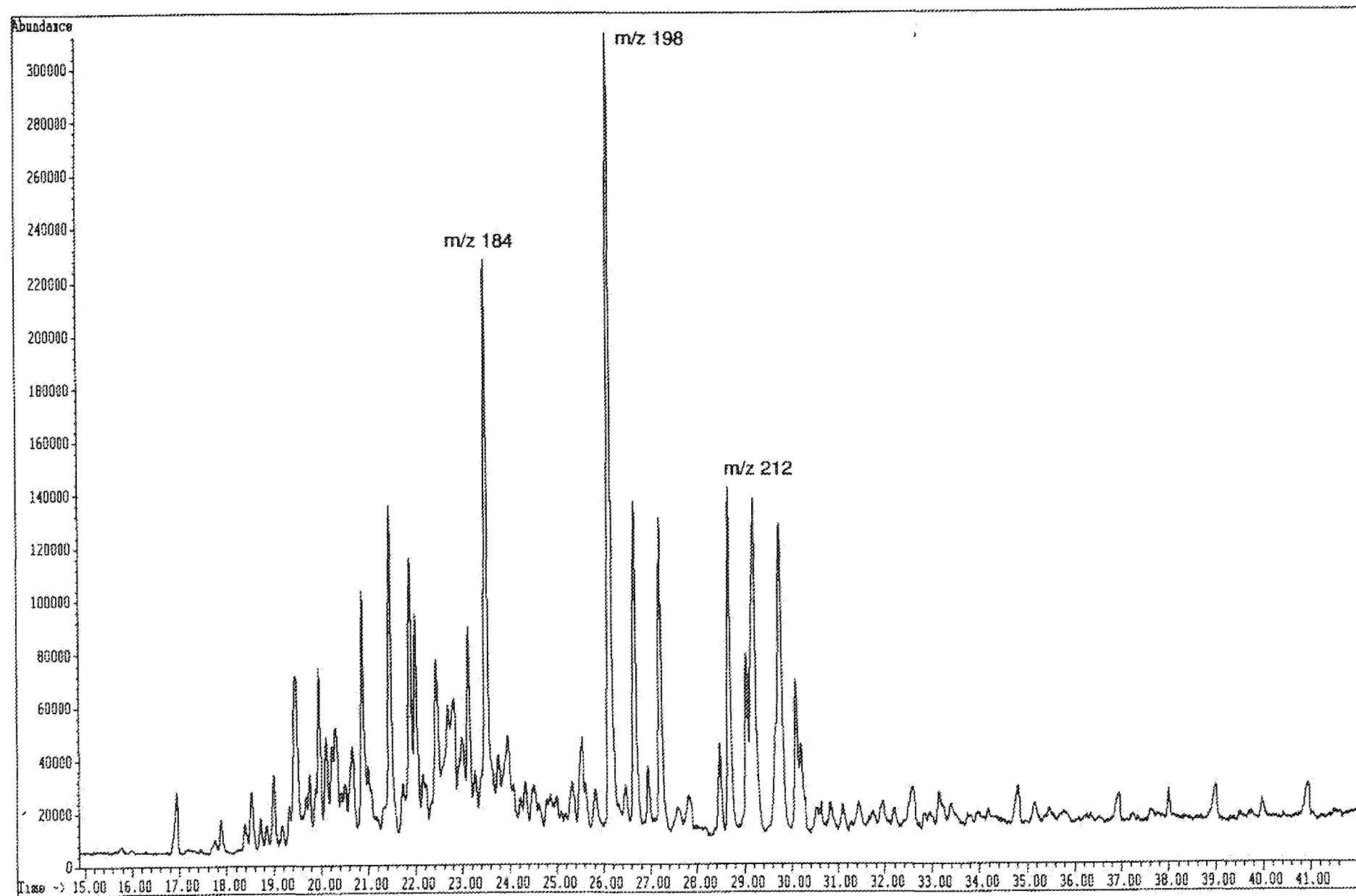
Phenanthrenes



File: D:\CHEMPC\DATA\6101010.D
Operator:
Date Acquired:
Method File Name: B10MY.M
Sample Name: 4071-003A
Misc Info:
Bottle Number: 61

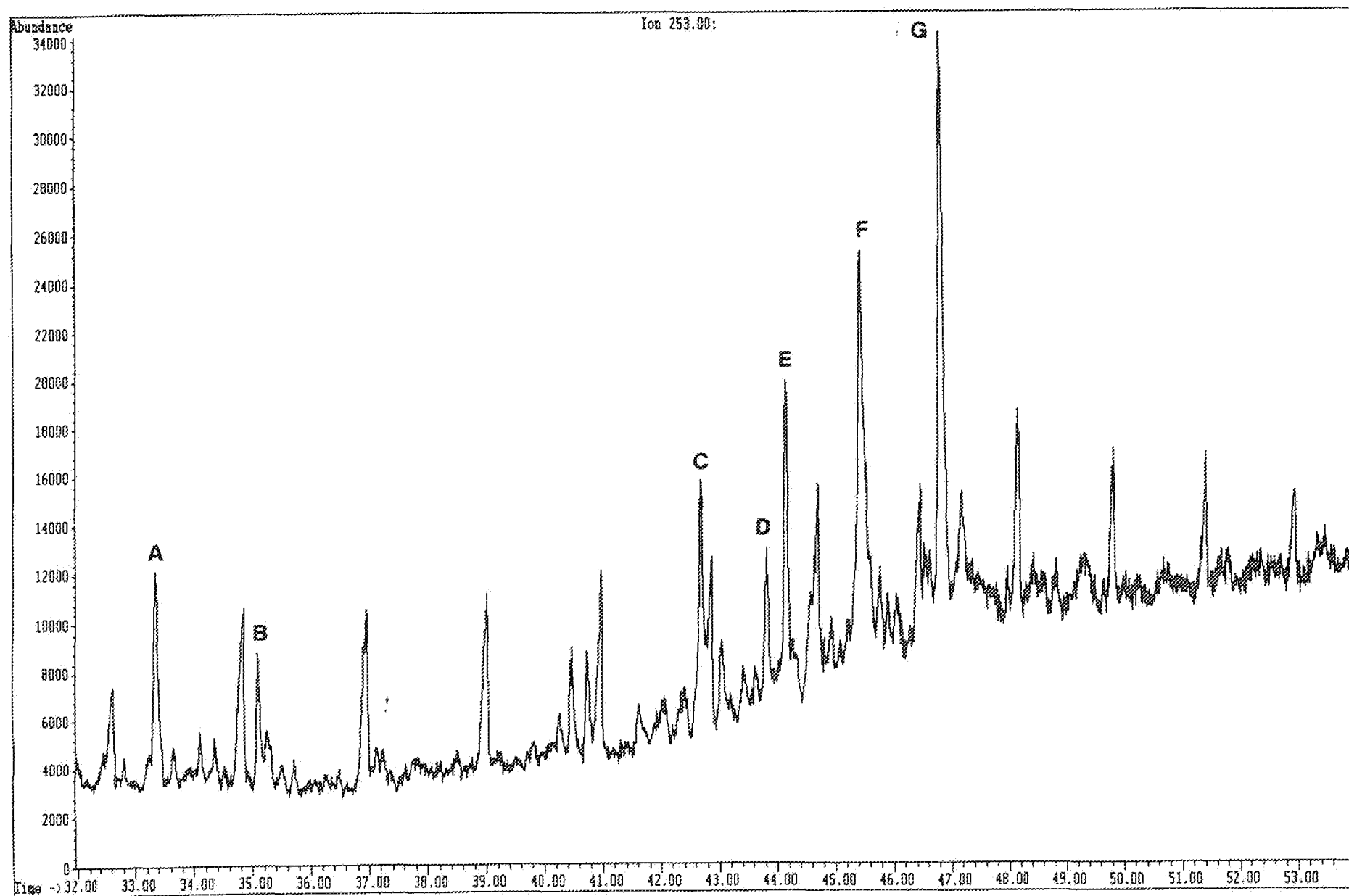
Figure: C3.3j
Well: 34/4-5
Depth: 3584.80m

Dibenzothiophenes



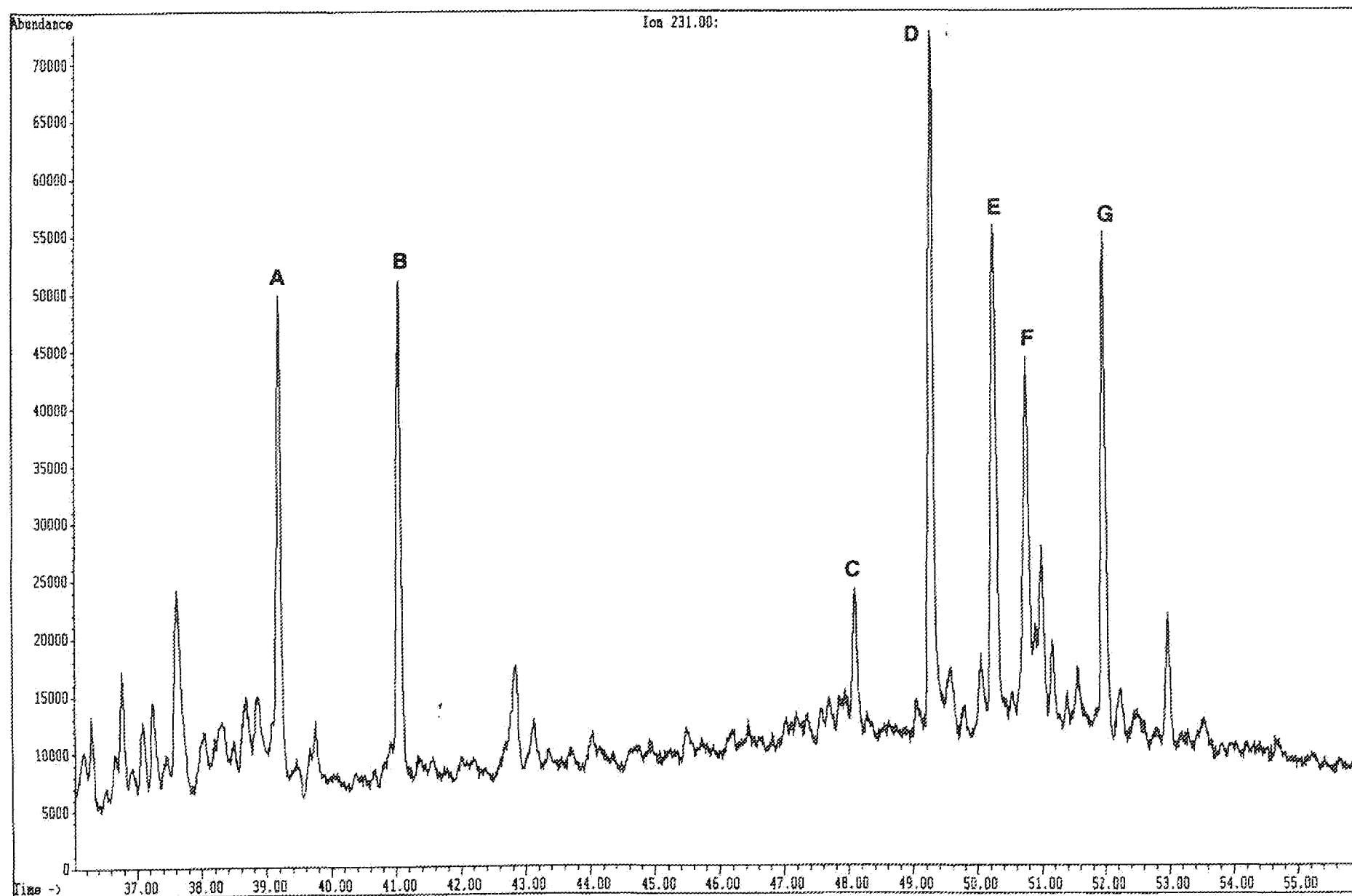
File: D:\CHEMPC\DATA\6101010.D
Operator:
Date Acquired:
Method File Name: B10MY.M
Sample Name: 4071-003A
Misc Info:
Bottle Number: 61

Figure: C3.3k
Well: 34/4-5
Depth: 3584.80m



File: D:\CHEMPC\DATA\6101010.D
Operator:
Date Acquired:
Method File Name: B10MY.M
Sample Name: 4071-003A
Misc Info:
Bottle Number: 61

Figure: C3.3I
Well: 34/4-5
Depth: 3584.80m



WELL 34/4-6

TABLE D.1
ORGANIC CARBON RESULTS AND GROSS LITHOLOGIC DESCRIPTIONS

JOB 4072				
GEOCHEM SAMPLE NUMBER	DEPTH/ IDENTITY	GROSS LITHOLOGIC DESCRIPTION	G S A COLOUR CODE	TOTAL ORGANIC CARBON (Wt. %)

WELL: 34/4-6

4072-001	2577.60m	A100% SANDSTONE - coarse grained, sub-angular, blocky, mod soft, sl micaceous, pale yellow F, slow blooming milky C, moderate yellowish brown.	10YR5/4	
4072-002	2579.50m	A100% SANDSTONE - v coarse grained, sub-angular, poorly sorted, blocky, mod soft, pale yellow F, slow blooming milky C, greyish orange to very pale orange.	10YR7/4- 10YR8/2	
4072-003	2581.50m	A100% SANDSTONE - coarse grained, sub-angular, poorly sorted, blocky, mod soft, pale yellow F, slow blooming milky C, very pale orange.	10YR8/2	

Abbreviations = arenaceous, argillaceous, calcareous, Cut, dolomite, Fluorescence, foraminifera fossiliferous, Lost Circulation Material, moderately, occasionally, slightly, very

TABLE D.2
CONCENTRATION (PPM) OF EXTRACTED C₁₅₊ MATERIAL IN ROCK

JOB 4072	L I T H O	DEPTH/ IDENTITY	TOTAL EXTRACT	HYDROCARBONS			NON HYDROCARBONS			
GEOCHEM SAMPLE NUMBER				Saturates	Aromatics	TOTAL	Precipitd. Asphaltenes	Eluted NSO's	Non-Eluted NSO's	TOTAL

WELL: 34/4-6

4072-001A	2577.60m	11568	9058	1191	10249	440	835	44	1319
4072-002A	2579.50m	6072	4799	637	5436	176	448	12	636
4072-003A	2581.50m	5448	4397	527	4924	176	338	10	524

TABLE D.3
COMPOSITION (NORMALISED %) OF C₁₅₊ MATERIAL

JOB 4072	L I T H O	DEPTH/ IDENTITY	HYDROCARBONS		NON HYDROCARBONS		
GEOCHEM SAMPLE NUMBER			Saturates	Aromatics	Preciptd. Asphaltenes	Eluted NSO's	Non-Eluted NSO's

WELL: 34/4-6

4072-001A	2577.60m	78.30	10.29	3.81	7.22	0.38
4072-002A	2579.50m	79.04	10.48	2.90	7.38	0.19
4072-003A	2581.50m	80.71	9.68	3.22	6.20	0.19

TABLE D.4
SIGNIFICANT C₁₅₊ RATIOS

JOB 4072	L I T H O	DEPTH/ IDENTITY	TOC (%)	mg/g TOC						HYDROCARBONS & TOTAL EXTRACT	SATURATES AROMATICS
GEOCHEM SAMPLE NUMBER				TOTAL EXTRACT	SATURATES	AROMATICS	TOTAL HYDROCARBONS	ELUTED NSO'S	ASPHALTENES		

WELL: 34/4-6

4072-001A	2577.60m	0.17	6804.90	5328.46	700.40	6028.86	491.05	259.04	88.60	7.61
4072-002A	2579.50m	0.23	2639.94	2086.64	276.76	2363.41	194.85	76.56	89.52	7.54
4072-003A	2581.50m	0.20	2724.08	2198.54	263.68	2462.22	168.84	87.81	90.39	8.34

TABLE D.4'
C₁₅₊ CHROMATOGRAPHY WEIGHTS (grams)

JOB 4072	L I T H O	DEPTH/ IDENTITY	ROCK EXTRACTED	TOTAL EXTRACT	PRECIPITD. ASPHALTENES	NC5	SATURATES	AROMATICS	ELUTED NSO's	NON-ELUTED NSO's
GEOCHEM SAMPLE NUMBER										

WELL: 34/4-6

4072-001A	2577.60m	16.1000	0.18625	0.00709	0.17916	0.14584	0.01917	0.01344	0.00071
4072-002A	2579.50m	19.4800	0.10422	0.00343	0.11485	0.09349	0.01240	0.00873	0.00023
4072-003A	2581.50m	19.1900	0.10455	0.00337	0.10118	0.08438	0.01012	0.00648	0.00020

TABLE D.5
COMPOSITION (NORMALISED %) OF C₁₅₊ SATURATE (PARAFFIN - NAPHTHENE) HYDROCARBONS

GEOCHEM SAMPLE NUMBER	001A	002A	003A
DEPTH	2577.6m	2579.5m	2581.5m
SAMPLE TYPE			
nC15	4.65	5.47	3.71
nC16	7.08	7.55	7.96
nC17	7.74	9.37	8.10
nC18	7.63	8.46	8.90
nC19	8.16	9.48	9.32
nC20	8.22	9.00	8.82
nC21	7.42	7.98	8.31
nC22	6.94	7.38	8.40
nC23	6.36	6.79	6.90
nC24	6.83	6.67	6.42
nC25	6.32	5.43	5.98
nC26	5.88	4.58	4.95
nC27	4.66	3.62	3.68
nC28	3.81	2.51	2.84
nC29	3.02	2.13	2.20
nC30	1.99	1.37	1.39
nC31	1.29	0.88	0.89
nC32	0.79	0.47	0.44
nC33	0.54	0.38	0.36
nC34	0.41	0.28	0.26
nC35	0.25	0.22	0.17
Paraffin	17.08	15.73	16.95
Isoprenoid	2.26	2.70	2.89
Naphthene	80.66	81.57	80.16
CPI 1 Index	0.97	0.99	0.99
CPI 2 Index	1.03	1.07	1.07
CPI 3 Index	0.96	1.02	0.94
Prist/Phytane	1.22	1.26	1.41
Prist/nC17	0.73	0.61	0.79
Phytane/nC18	0.61	0.54	0.51

Job Number : 4072

$$C.P.I. 1 = \frac{1}{2} \left[\frac{C_{21} + C_{23} + C_{25} + C_{27}}{C_{20} + C_{22} + C_{24} + C_{26}} + \frac{C_{21} + C_{23} + C_{25} + C_{27}}{C_{22} + C_{24} + C_{26} + C_{28}} \right]$$

$$C.P.I. 2 = \frac{1}{2} \left[\frac{C_{25} + C_{27} + C_{29} + C_{31}}{C_{24} + C_{26} + C_{28} + C_{30}} + \frac{C_{25} + C_{27} + C_{29} + C_{31}}{C_{26} + C_{28} + C_{30} + C_{32}} \right]$$

$$P.I. 3 = \frac{2 \times (C_{27})}{C_{26} + C_{28}}$$

CT - ditch cuttings CO - core SWC - sidewall core

TABLE D6
METHYLPHENANTHRENE INDICES (MPI)

WOB 4072	DEPTH/ IDENTITY	SAMPLE TYPE	MPI 1		Rcalc		MPI 2	
GEOCHEM SAMPLE NUMBER			AREA	HEIGHT	AREA	HEIGHT	AREA	HEIGHT

WELL: 34/4-6

4072-001A	2577.60m		0.48	0.52			0.51	0.54
4072-002A	2579.50m		0.49	0.51			0.52	0.52
4072-003A	2581.50m		0.48	0.51			0.50	0.52

TABLE D.6'

AROMATIC HYDROCARBONS RATIOS (MSD, PEAK AREA DATA)

SAMPLE NUMBER	DEPTH (m)	2MP/ 1MP	RATIO 1	RATIO 2	RATIO 3
------------------	--------------	-------------	---------	---------	---------

WELL 34/4-6

4072-001A	2577.60	0.61	0.43	0.54	0.13
4072-002A	2579.50	0.64	0.39	0.55	0.13
4072-003A	2581.50	0.65	0.37	0.57	0.14

$$\text{RATIO 1} = \frac{A(231)}{A(231) + G(231)}$$

$$\text{RATIO 2} = \frac{E(253)}{E(253) + G(253)}$$

$$\text{RATIO 3} = \frac{A(253)}{B(231) + E(253)}$$

TABLE D.7
CARBON ISOTOPE COMPOSITIONS (‰, PDB)

JOB 4072								
GEOCHEM SAMPLE NUMBER	DEPTH/ IDENTITY	TOTAL EXTRACT WHOLE OIL	SATURATES	AROMATICS	NSO	ASPHALTENES	KEROGEN	PYROLYSATE (S2)

WELL: 34/4-6

4072-001A	2577.60m	-30.38	-30.52	-29.88	-30.66	-29.99		
4072-002A	2579.50m	-30.56	-30.54	-30.20	-30.87	-30.18		
4072-003A	2581.50m	-30.44	-30.71	-30.19	-31.15	-30.09		

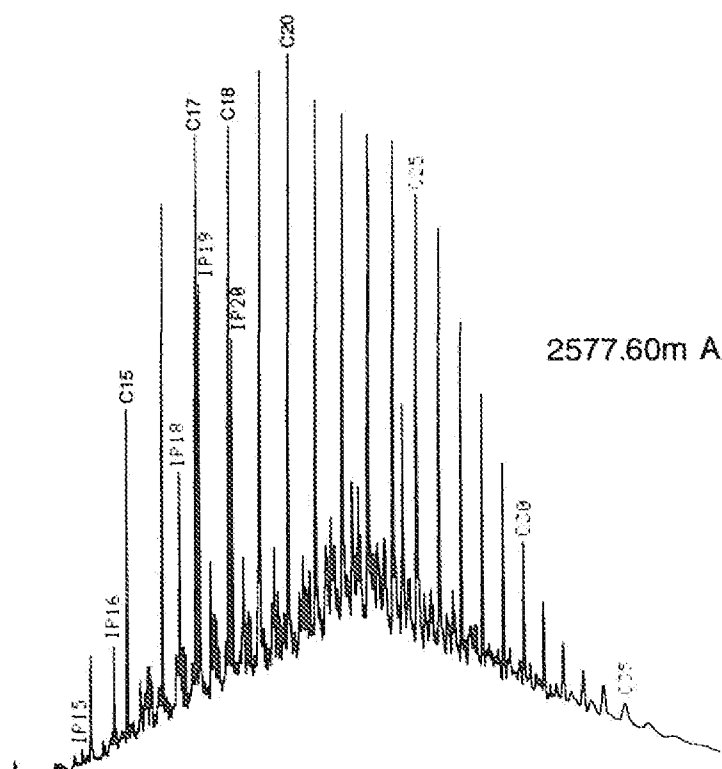
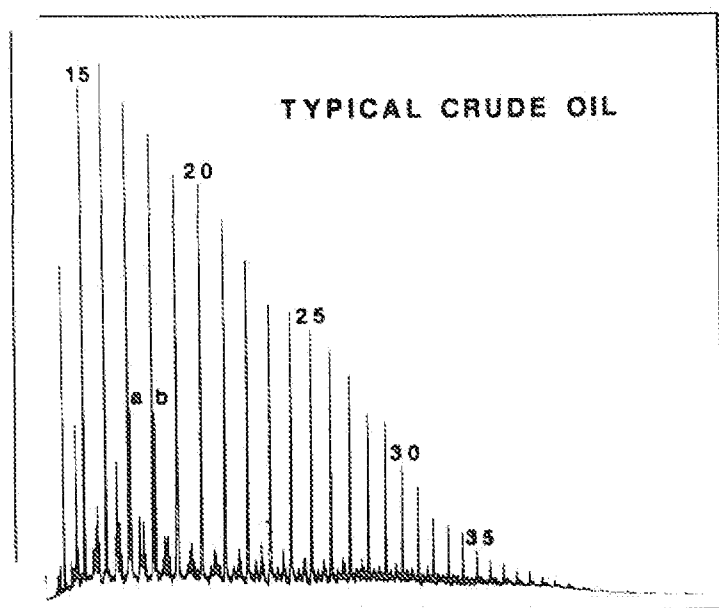
TABLE D.8
BIOMARKER MOLECULAR RATIOS

WELL 34/4-5

		Steranes (m/z 217, 218)				Terpanes (m/z 191)					
SAMPLE NUMBER	DEPTH (m)	Q/T	R/T	A/B	<u>A+B</u> E+F	B/A	<u>C</u> C+E	<u>D</u> D+C	<u>Z</u> Z+C	<u>G</u> G+H%	<u>G1</u> G1+E%
4072-001A	2577.60	0.96	0.92	1.30	1.01	0.51	0.35	0.14	0.40	59.10	0
4072-002A	2579.50	1.16	1.14	1.50	0.87	0.46	0.27	0.20	0.47	59.76	0
4072-003A	2581.50	0.96	1.03	1.58	0.91	0.47	0.27	0.20	0.48	59.65	0

FIGURE D1.1 C₁₅+ SATURATES CHROMATOGRAMS

WELL 34/4-6



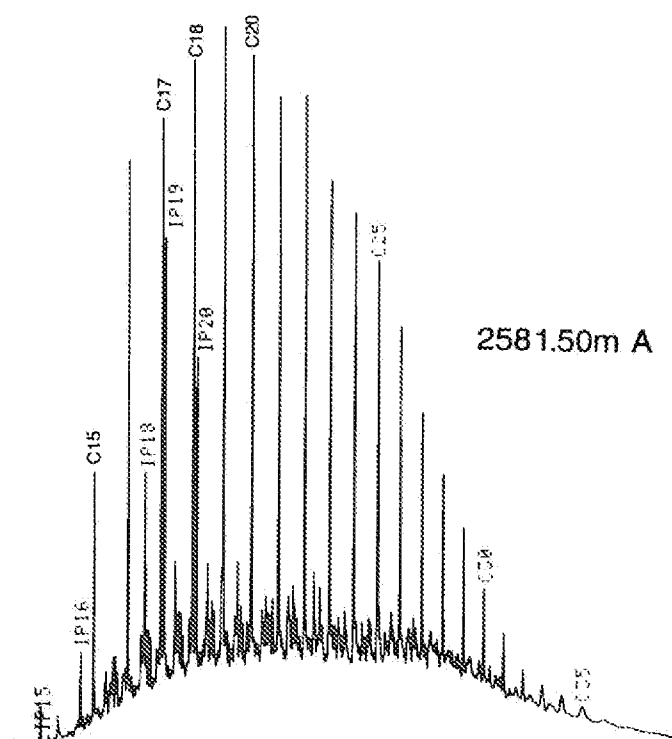
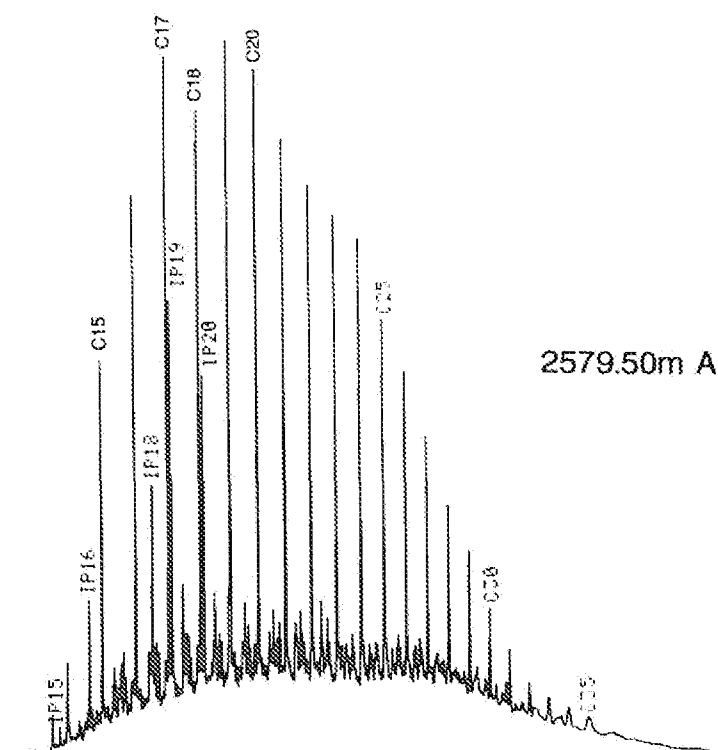
a = PRISTANE

b = PHYTANE

CARBON NUMBERS OF NORMAL PARAFFINS INDICATED (20-nC₂₀)

FIGURE D1.2 C₁₅+ SATURATES CHROMATOGRAMS

WELL 34/4-6



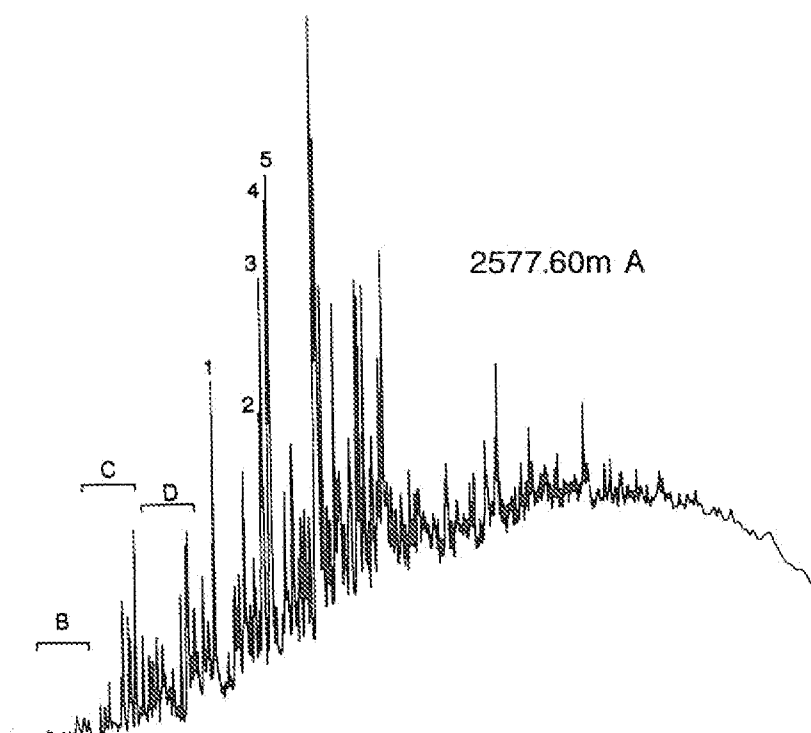
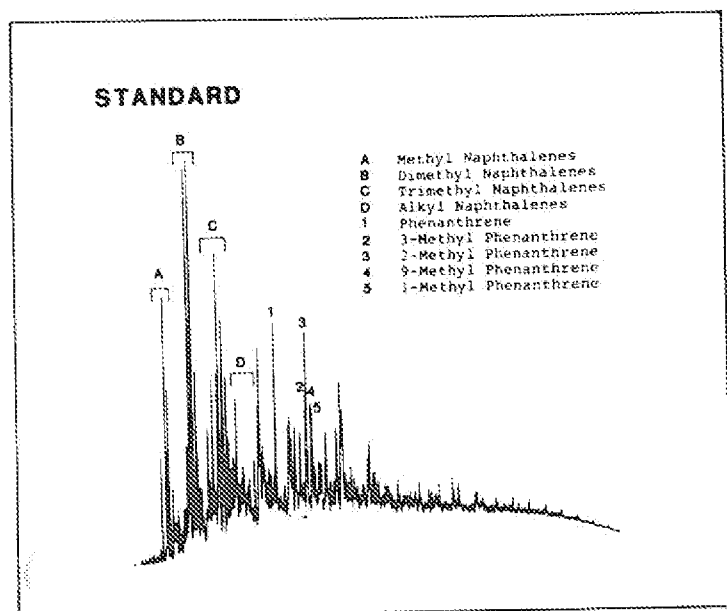
a - PRISTANE
b - PHYTANE

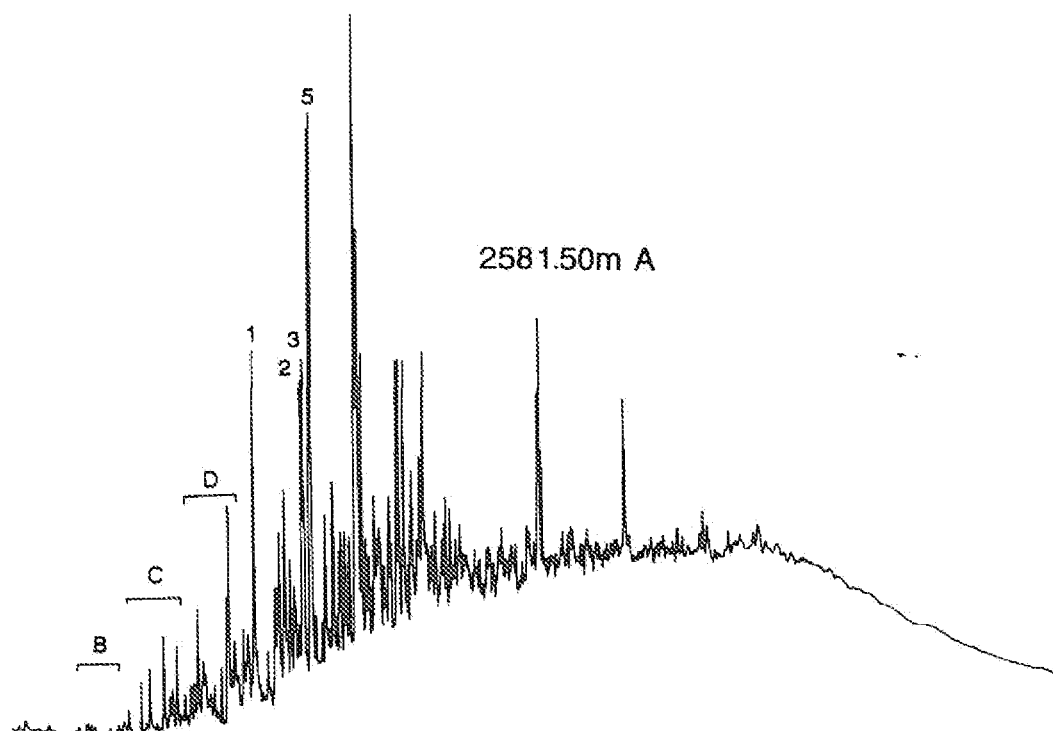
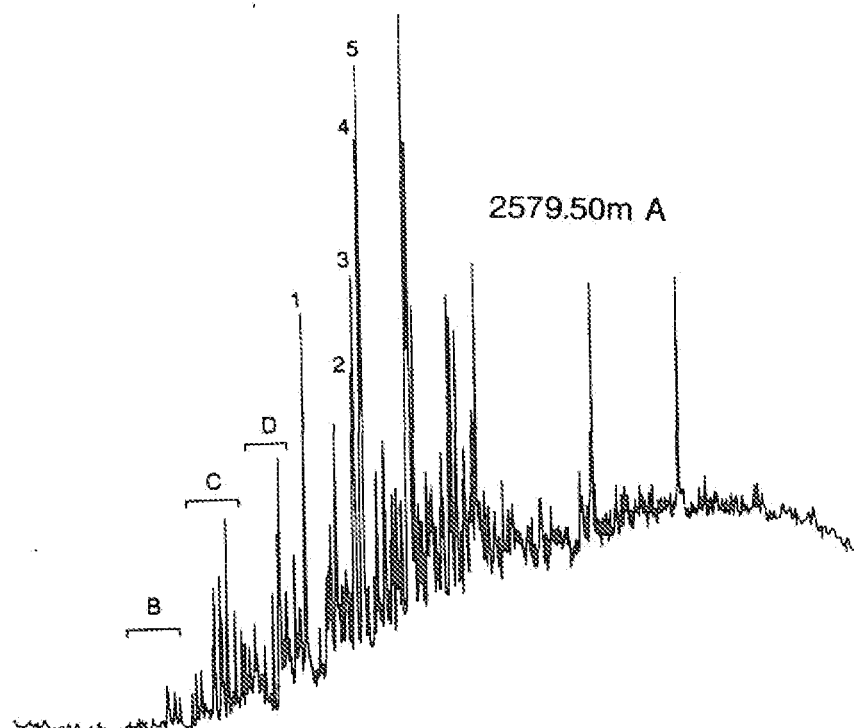
CARBON NUMBERS OF NORMAL PARAFFINS INDICATED (20 - nC₂₀)

FIGURE D2.1

C₁₅+ AROMATIC CHROMATOGRAMS

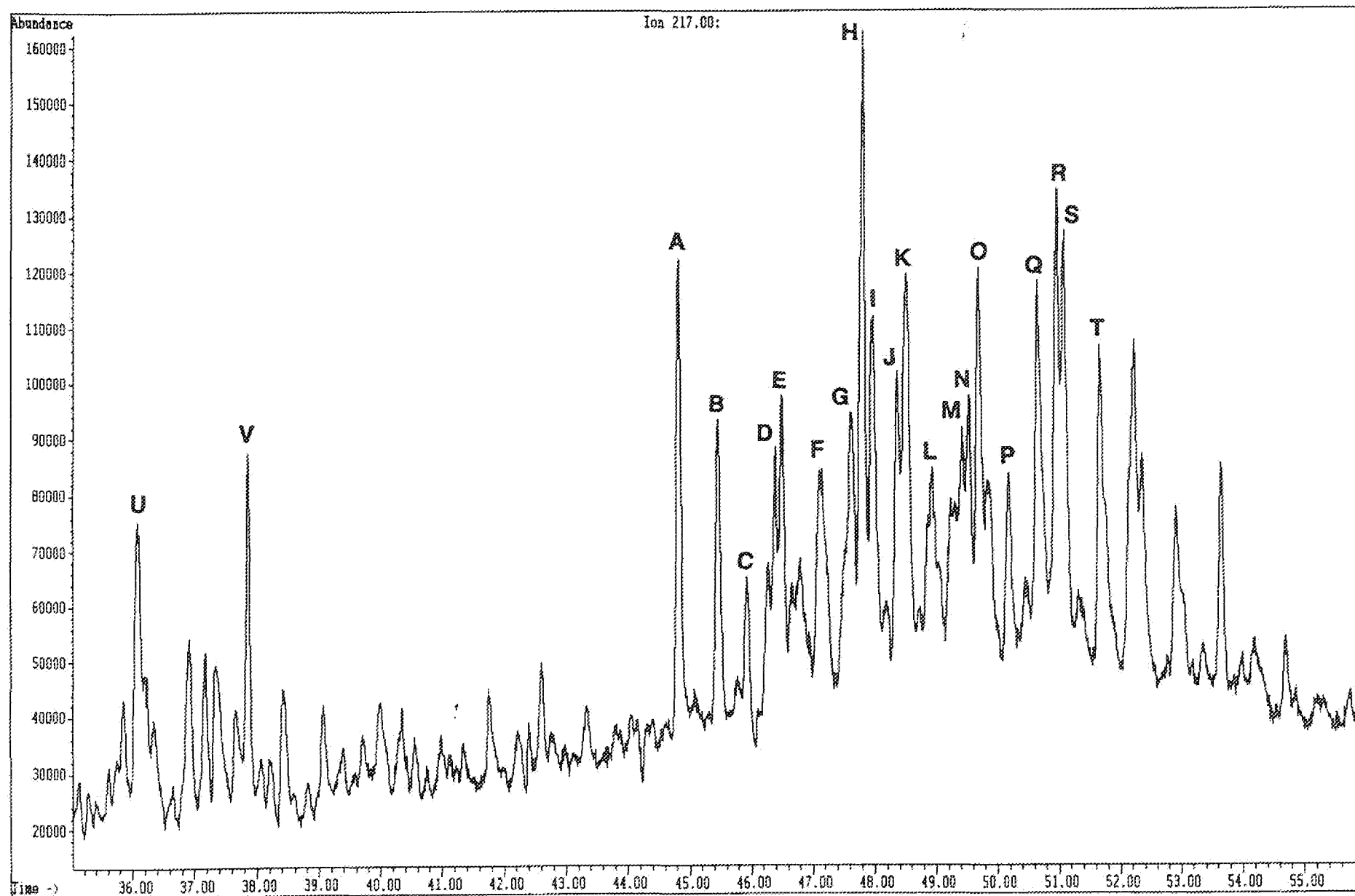
WELL 34/4-6





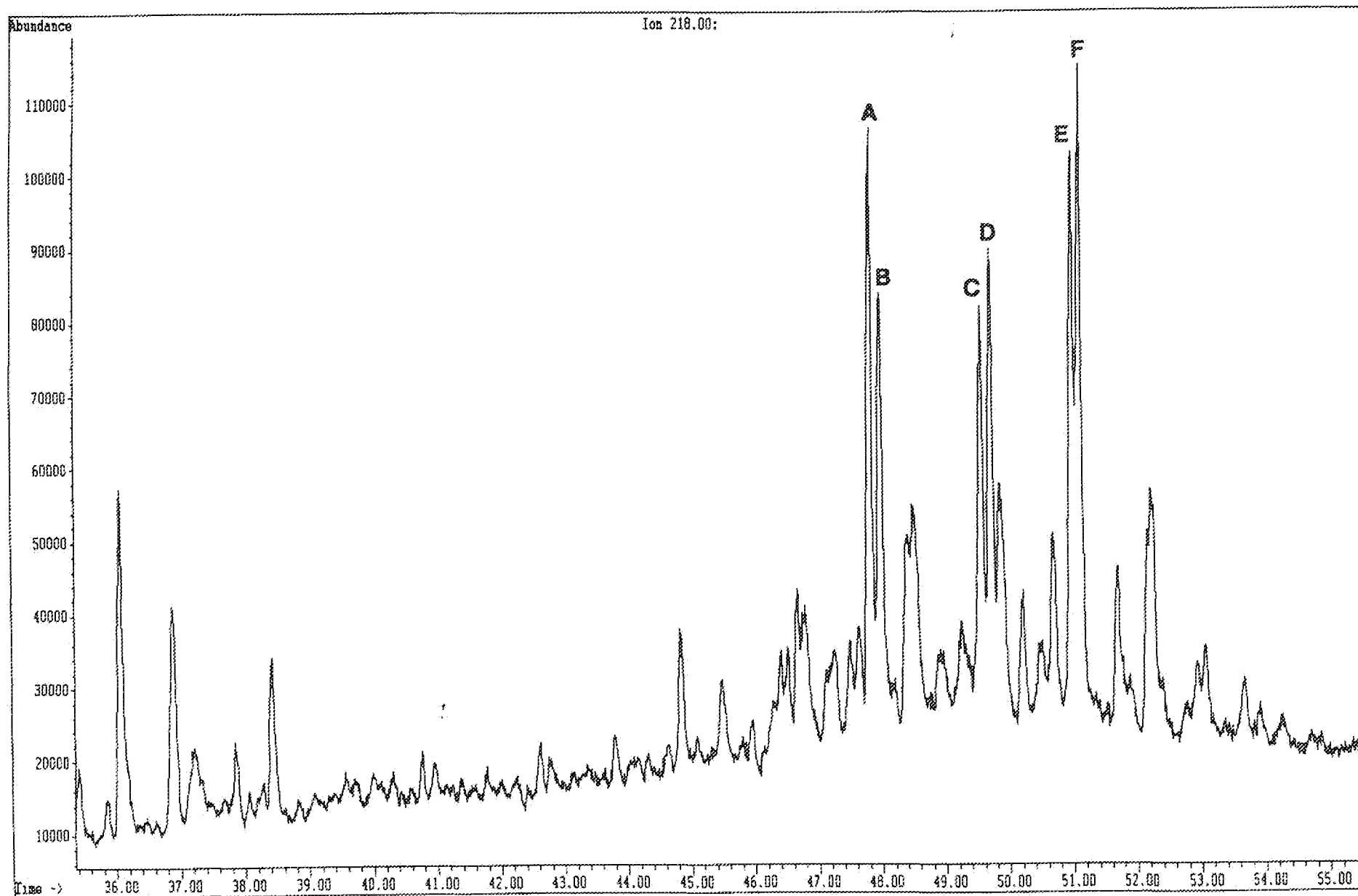
File: D:\CHEMPC\DATA\7601012.D
Operator:
Date Acquired: 11:05 pm
Method File Name: B10M.M
Sample Name: 4072-001A
Misc Info:
Bottle Number: 76

Figure: D3.1a
Well: 34/4-6
Depth: 2577.60m



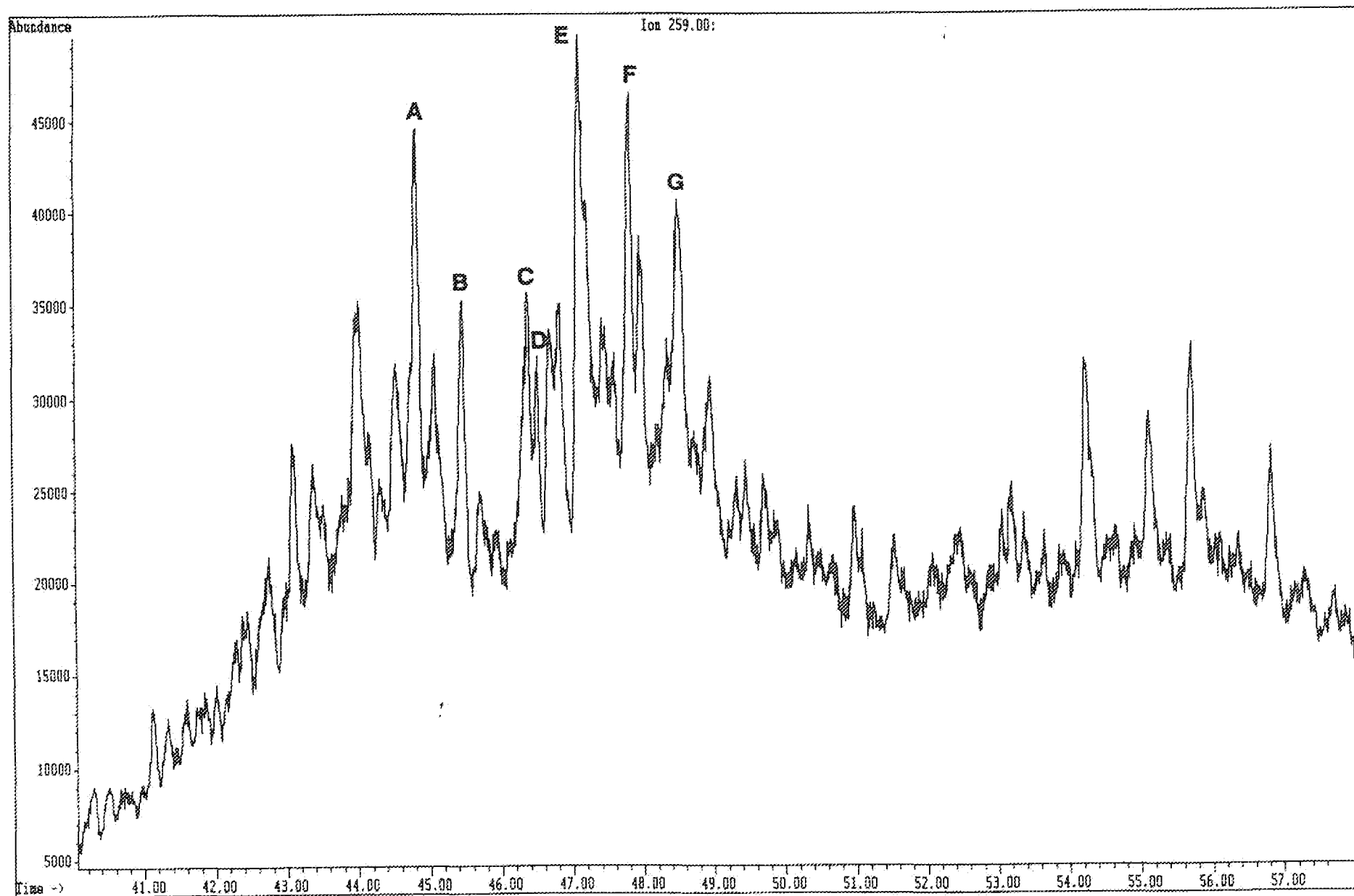
File: D:\CHEMPC\DATA\7601012.D
Operator:
Date Acquired: 11:05 pm
Method File Name: B10M.M
Sample Name: 4072-001A
Misc Info:
Bottle Number: 76

Figure: D3.1b
Well: 34/4-6
Depth: 2577.60m



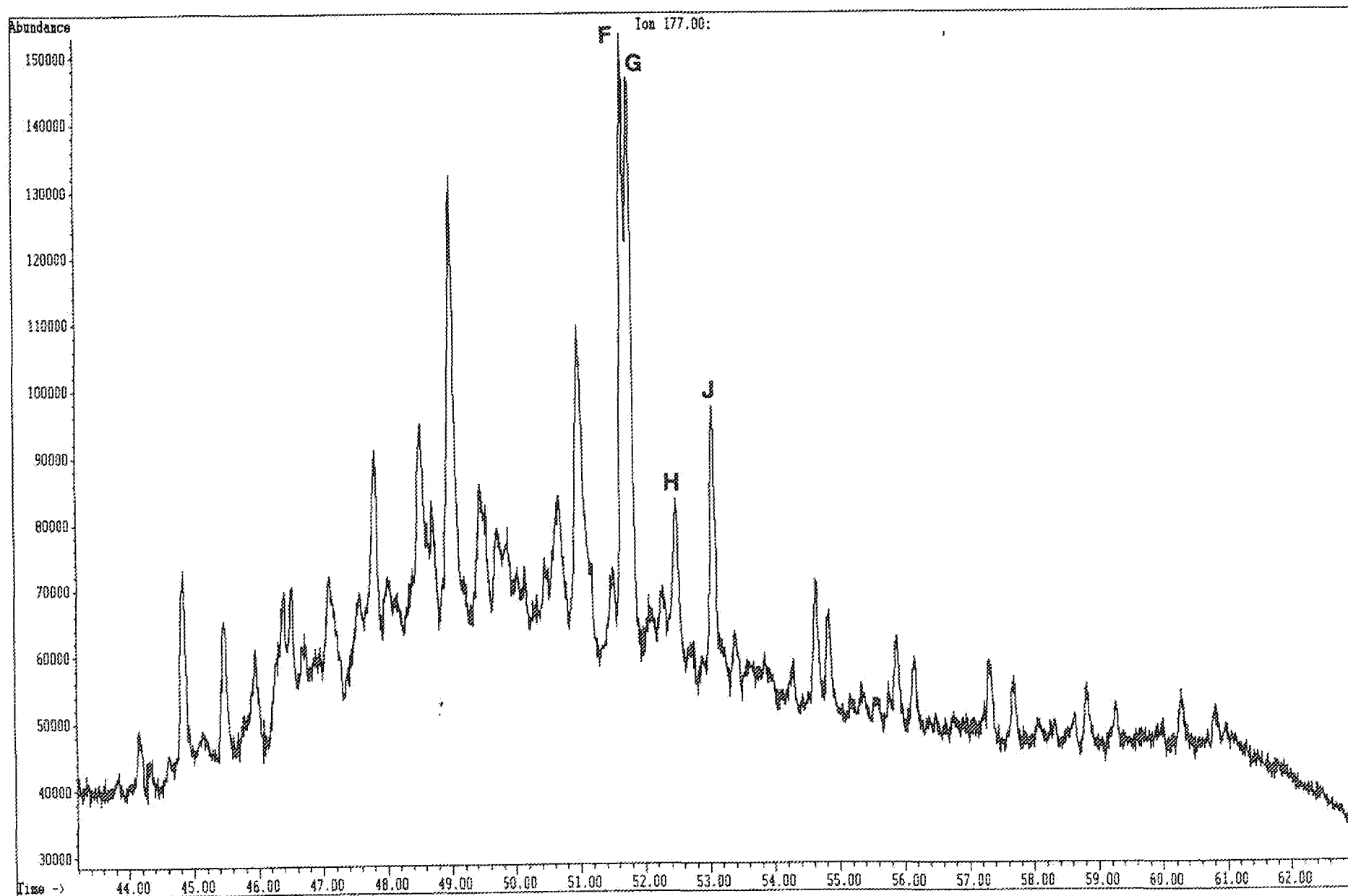
File: D:\CHEMPC\DATA\7601012.D
Operator:
Date Acquired: 11:05 pm
Method File Name: BIOM.M
Sample Name: 4072-001A
Misc Info:
Bottle Number: 76

Figure: D3.1c
Well: 34/4-6
Depth: 2577.60m



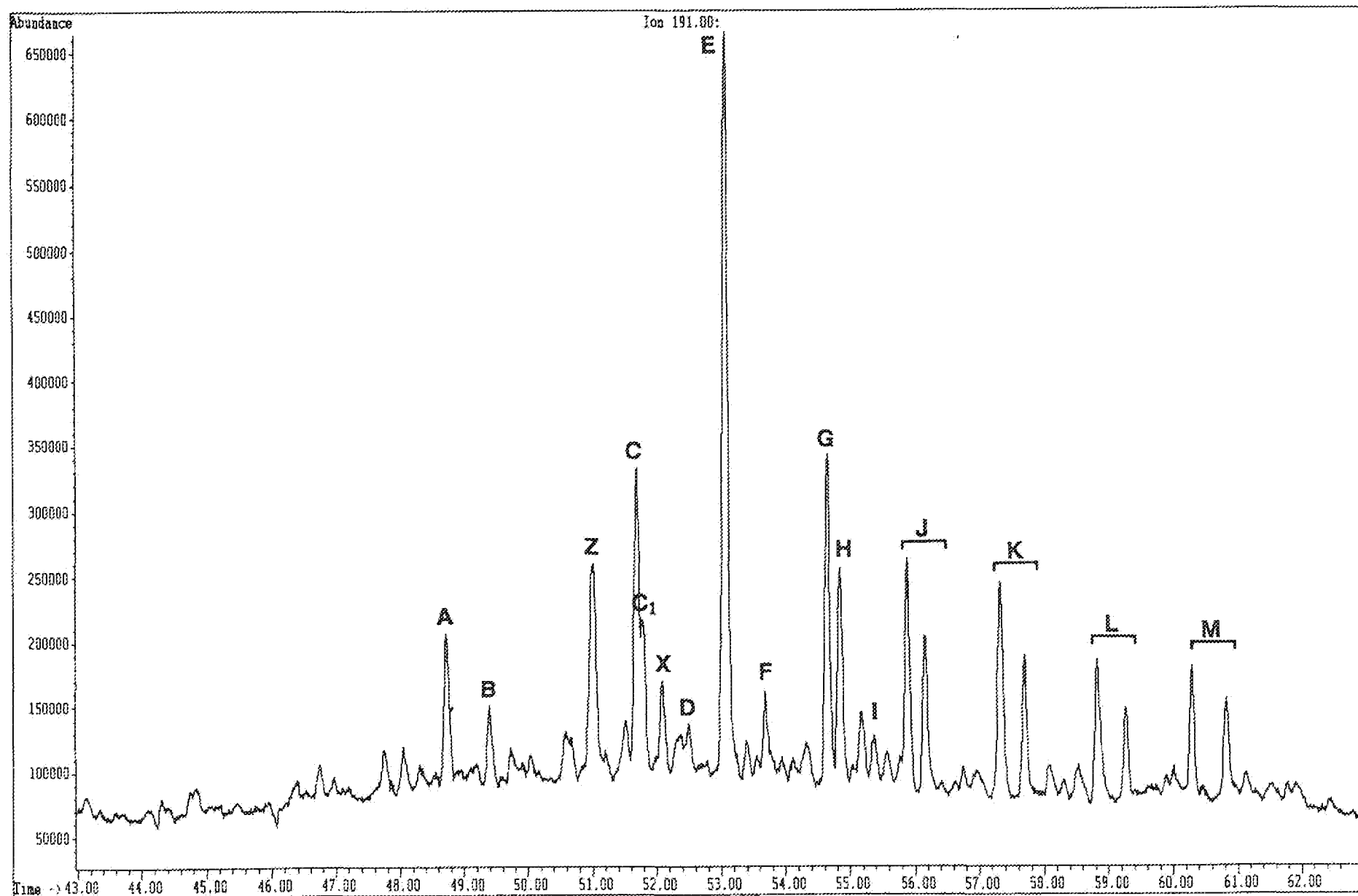
File: D:\CHEMPC\DATA\7601012.D
Operator:
Date Acquired: 11:05 pm
Method File Name: BIOM.M
Sample Name: 4072-001A
Misc Info:
Bottle Number: 76

Figure: D3.1d
Well: 34/4-6
Depth: 2577.60m



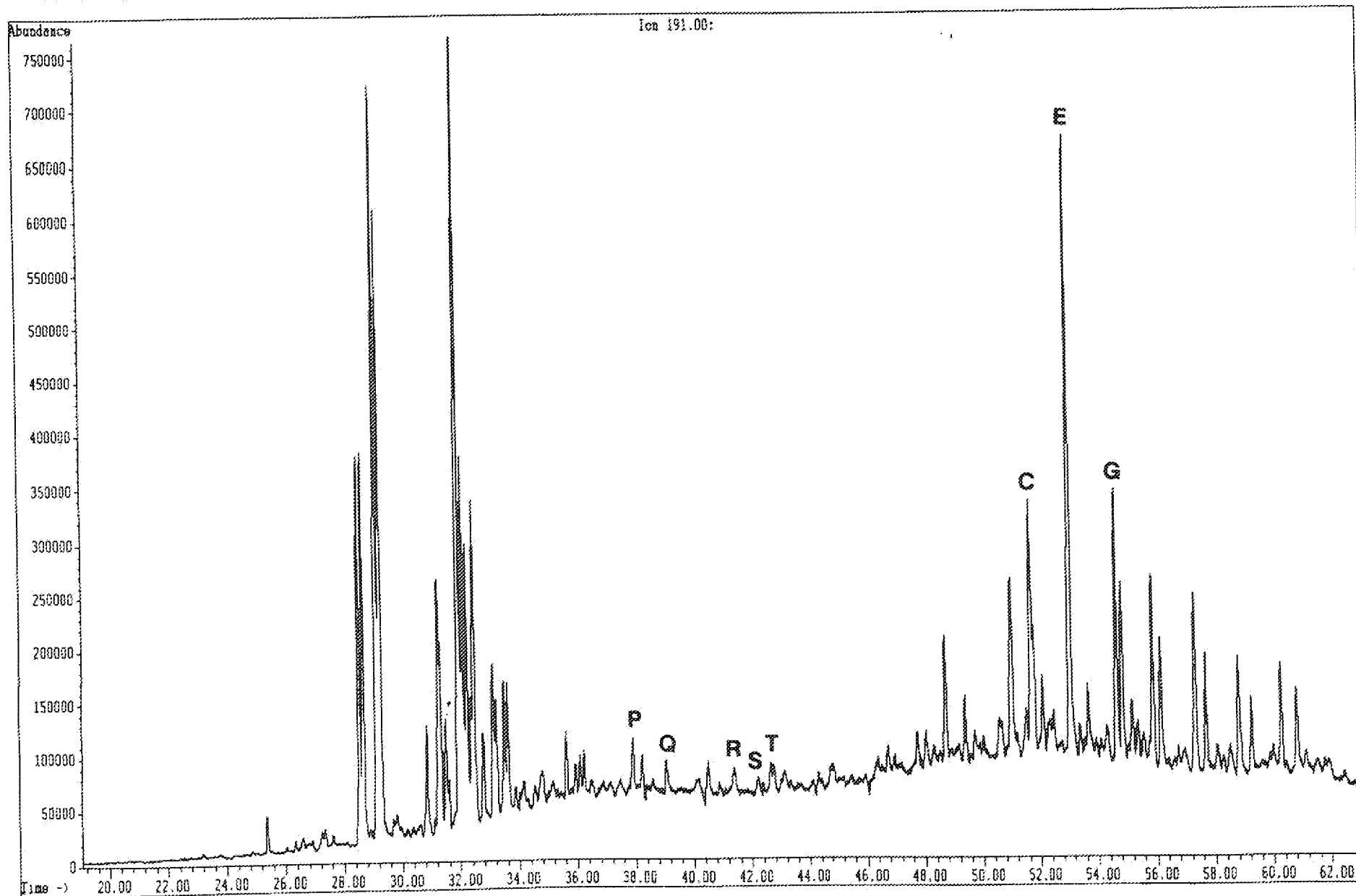
File: D:\CHEMPC\DATA\7601012.D
Operator:
Date Acquired: 11:05 pm
Method File Name: BIOM.M
Sample Name: 4072-001A
Misc Info:
Bottle Number: 76

Figure: D3.1e
Well: 34/4-6
Depth: 2577.60m



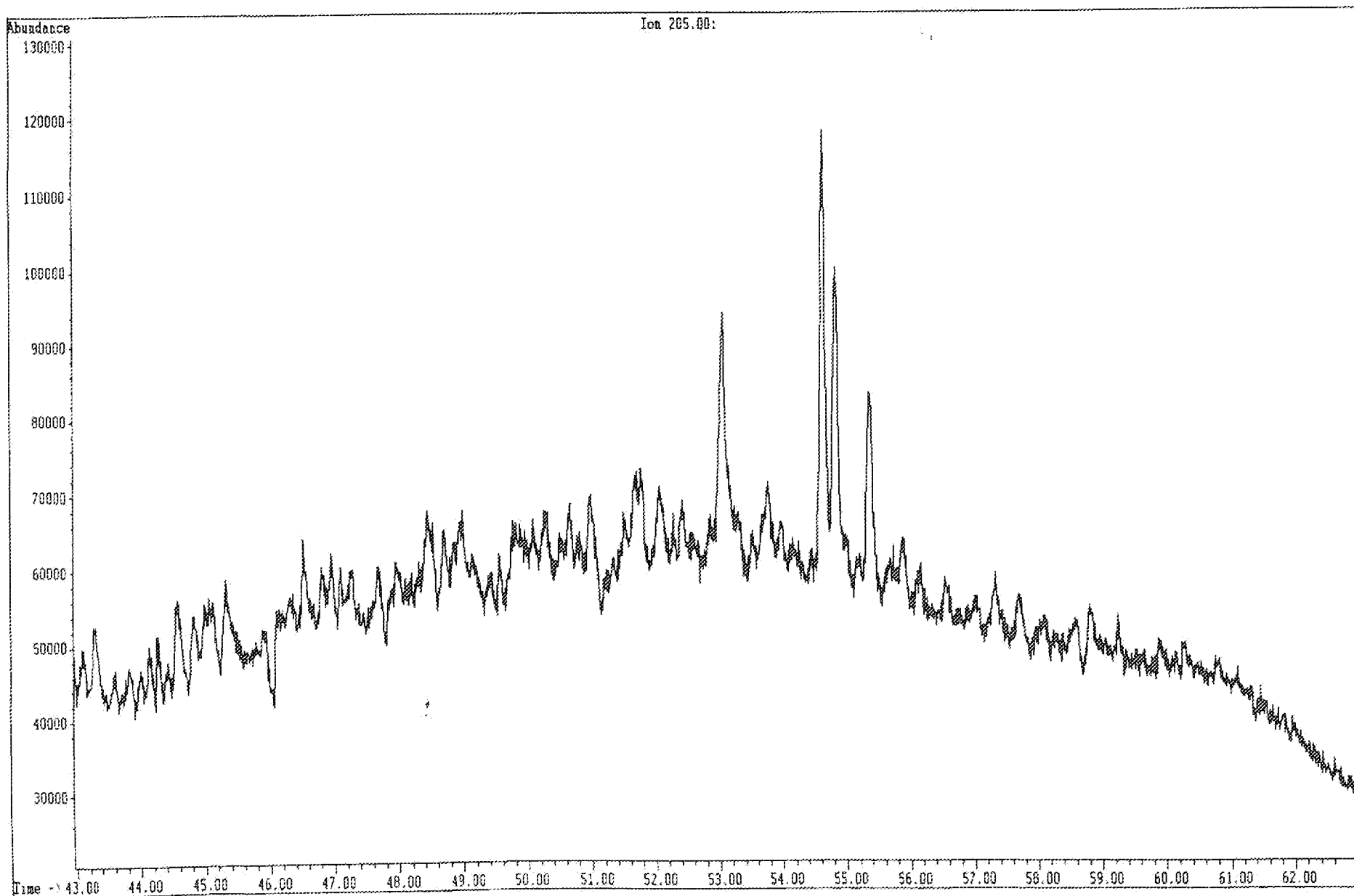
File: D:\CHEMPC\DATA\7601012.D
Operator:
Date Acquired: 11:05 pm
Method File Name: BIOM.M
Sample Name: 4072-001A
Misc Info:
Bottle Number: 76

Figure: D3.1f
Well: 34/4-6
Depth: 2577.60m



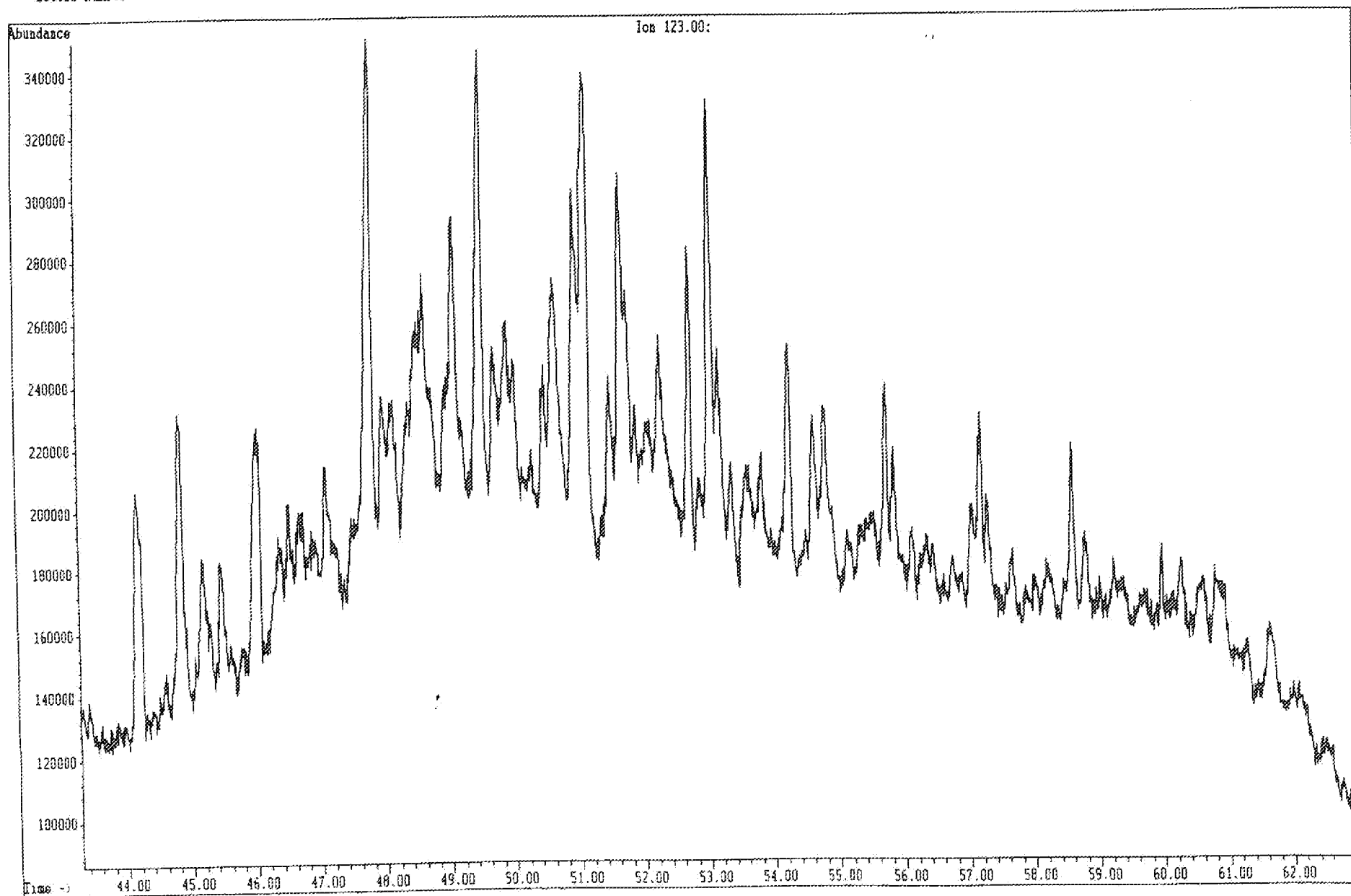
File: D:\CHEMPC\DATA\7601012.D
Operator:
Date Acquired: 11:05 pm
Method File Name: BIOM.M
Sample Name: 4072-001A
Misc Info:
Bottle Number: 76

Figure: D3.1g
Well: 34/4-6
Depth: 2577.60m



File: D:\CHEMPC\DATA\7601012.D
Operator:
Date Acquired: 11:05 pm
Method File Name: B10M.M
Sample Name: 4072-001A
Misc Info:
Bottle Number: 76

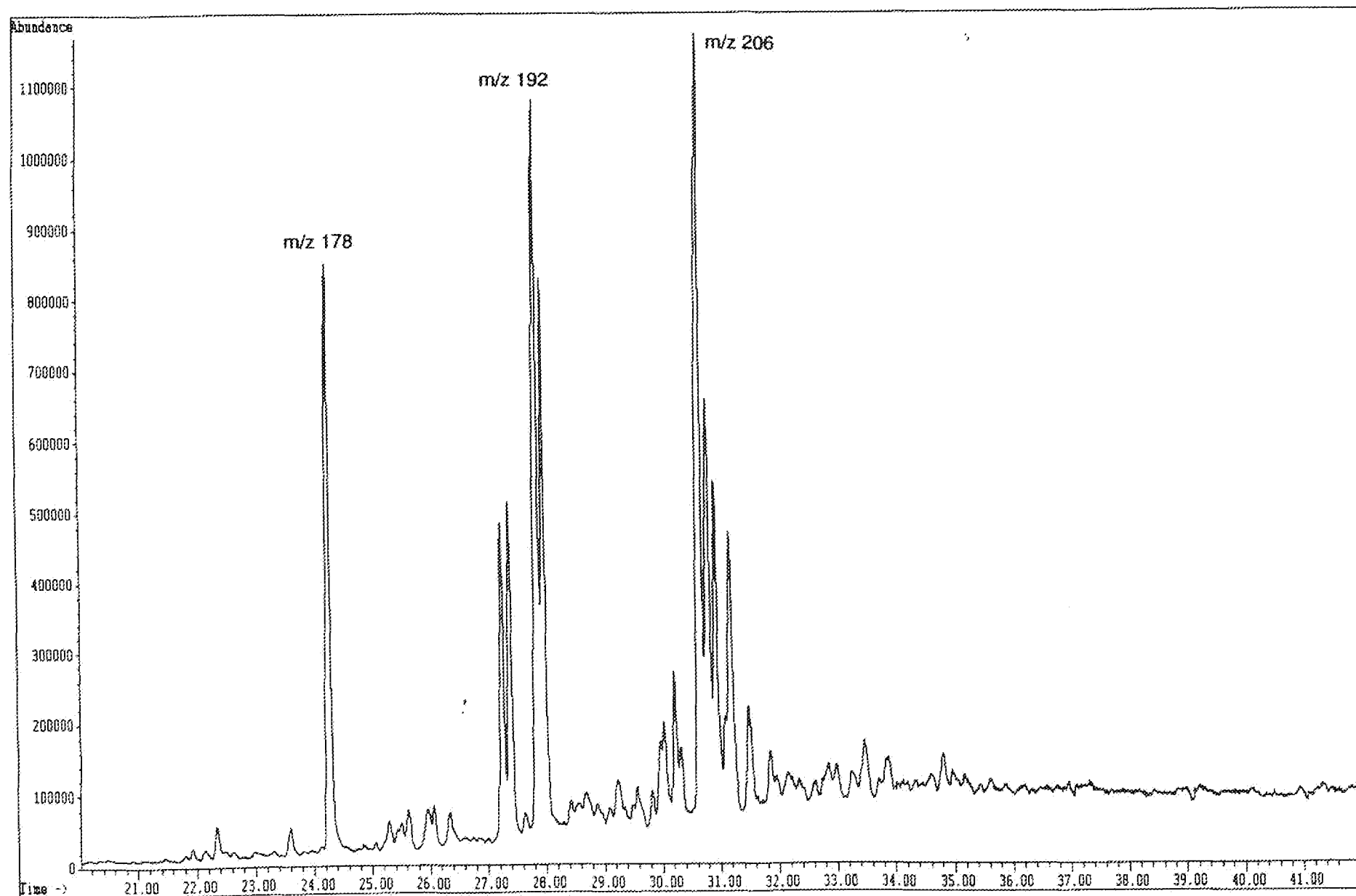
Figure: D3.1h
Well: 34/4-6
Depth: 2577.60m



File: D:\CHEMPC\DATA\6201011.D
Operator:
Date Acquired: 17 Jan 90 6:38 am
Method File Name: B10MY.M
Sample Name: 4072-001A
Misc Info:
Bottle Number: 62

Phenanthrenes

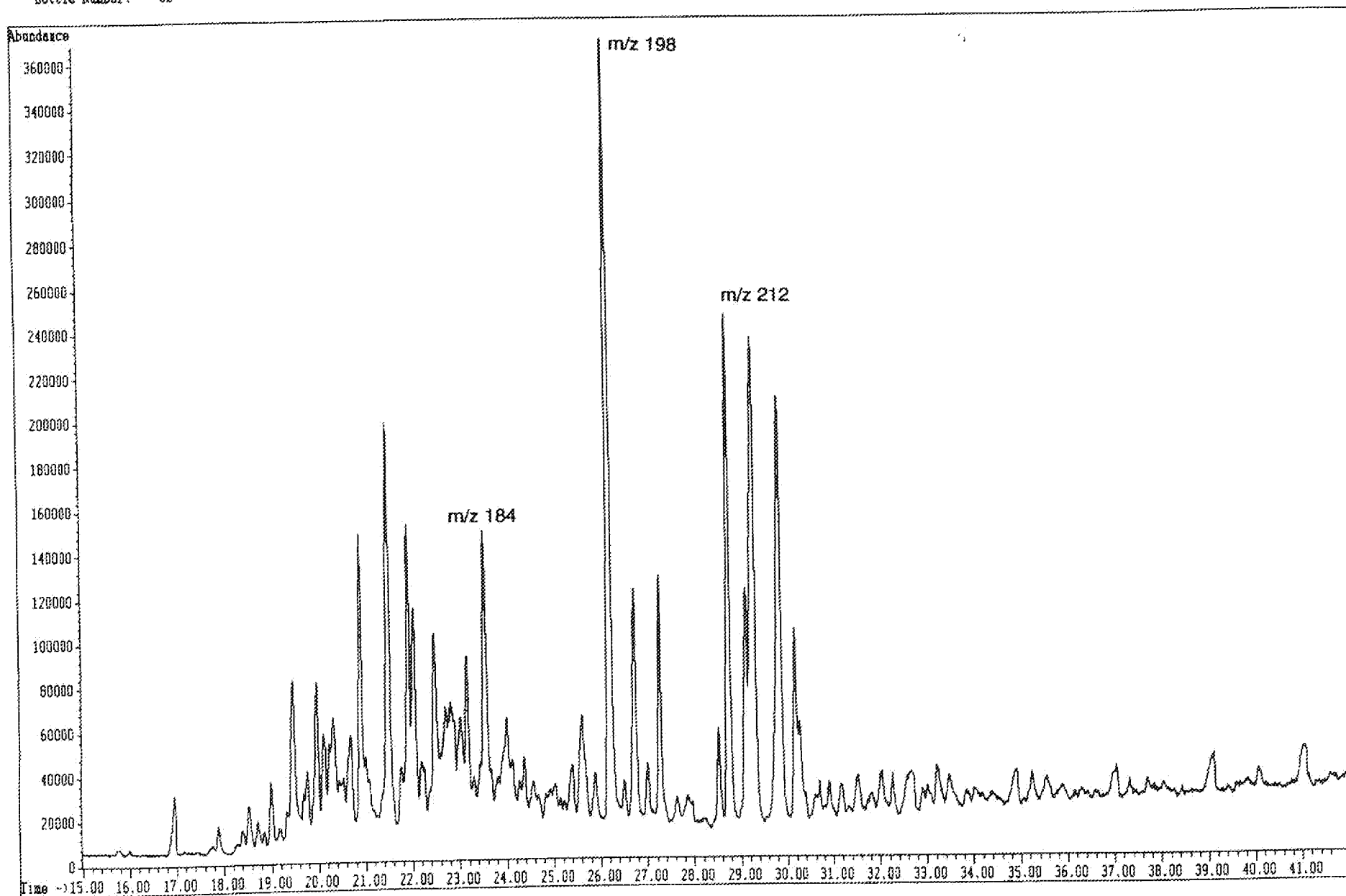
Figure: D3.1i
Well: 34/4-6
Depth: 2577.60m



File: D:\CHEMPC\DATA\6201011.D
Operator:
Date Acquired: 17 Jan 90 6:38 am
Method File Name: B10MY.M
Sample Name: 4072-001A
Misc Info:
Bottle Number: 62

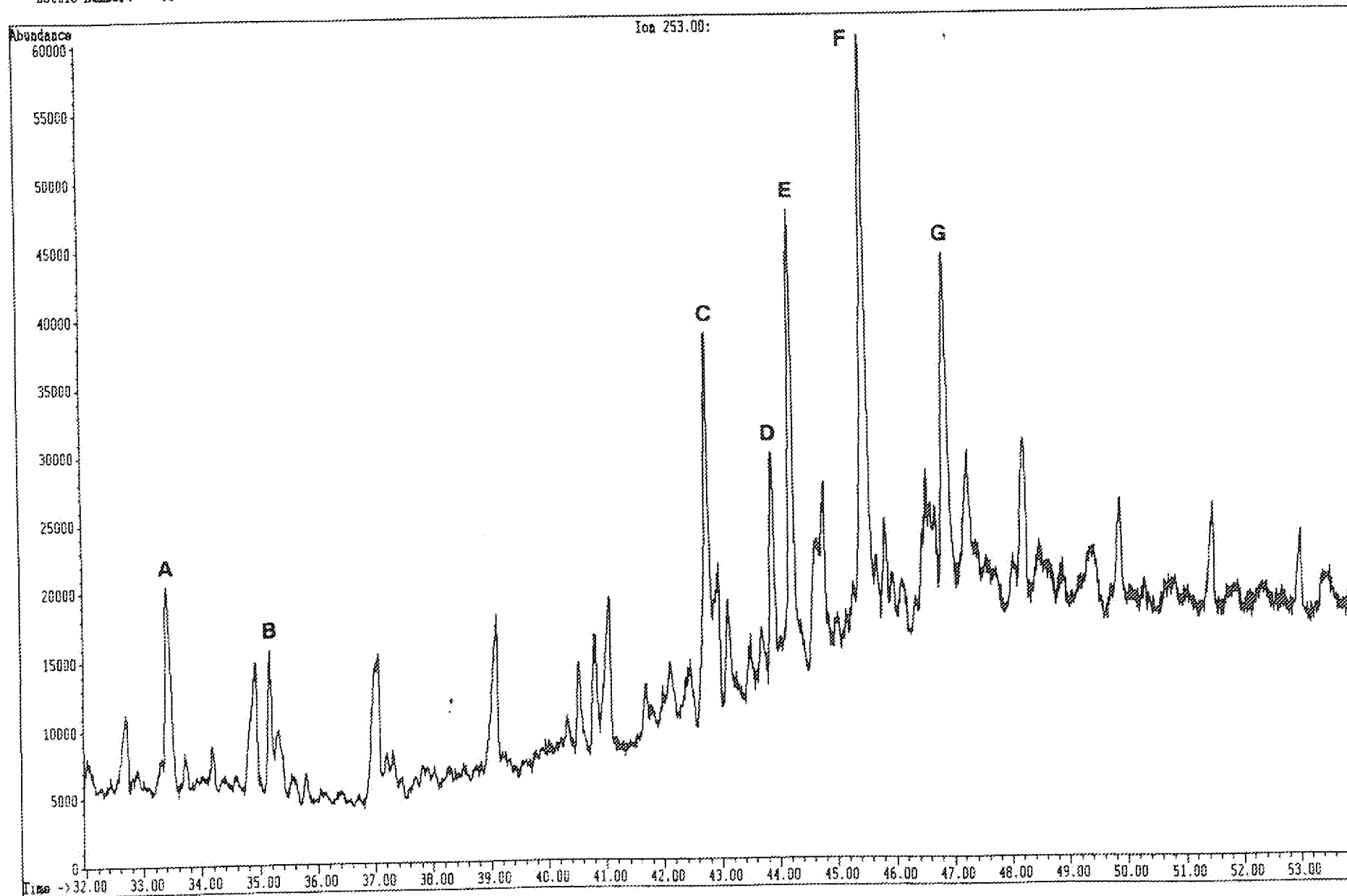
Figure: D3.1j
Well: 34/4-6
Depth: 2577.60m

Dibenzothiophenes



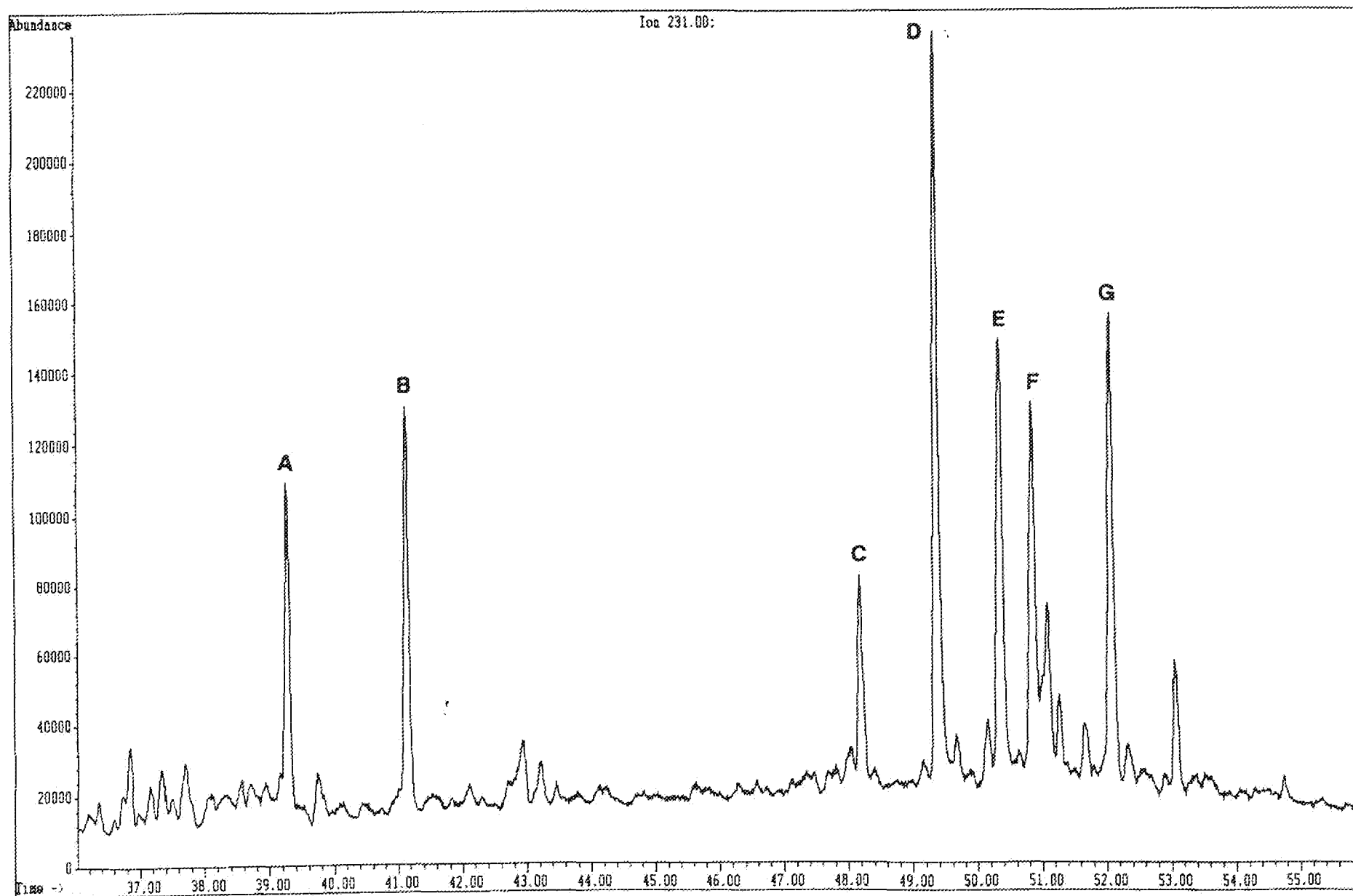
File: D:\CHEMPC\DATA\6201011.D
Operator:
Date Acquired: 17 Jan 90 6:38 am
Method File Name: BICOMY.M
Sample Name: 4072-001A
Misc Info:
Bottle Number: 62

Figure: D3.1k
Well: 34/4-6
Depth: 2577.60m



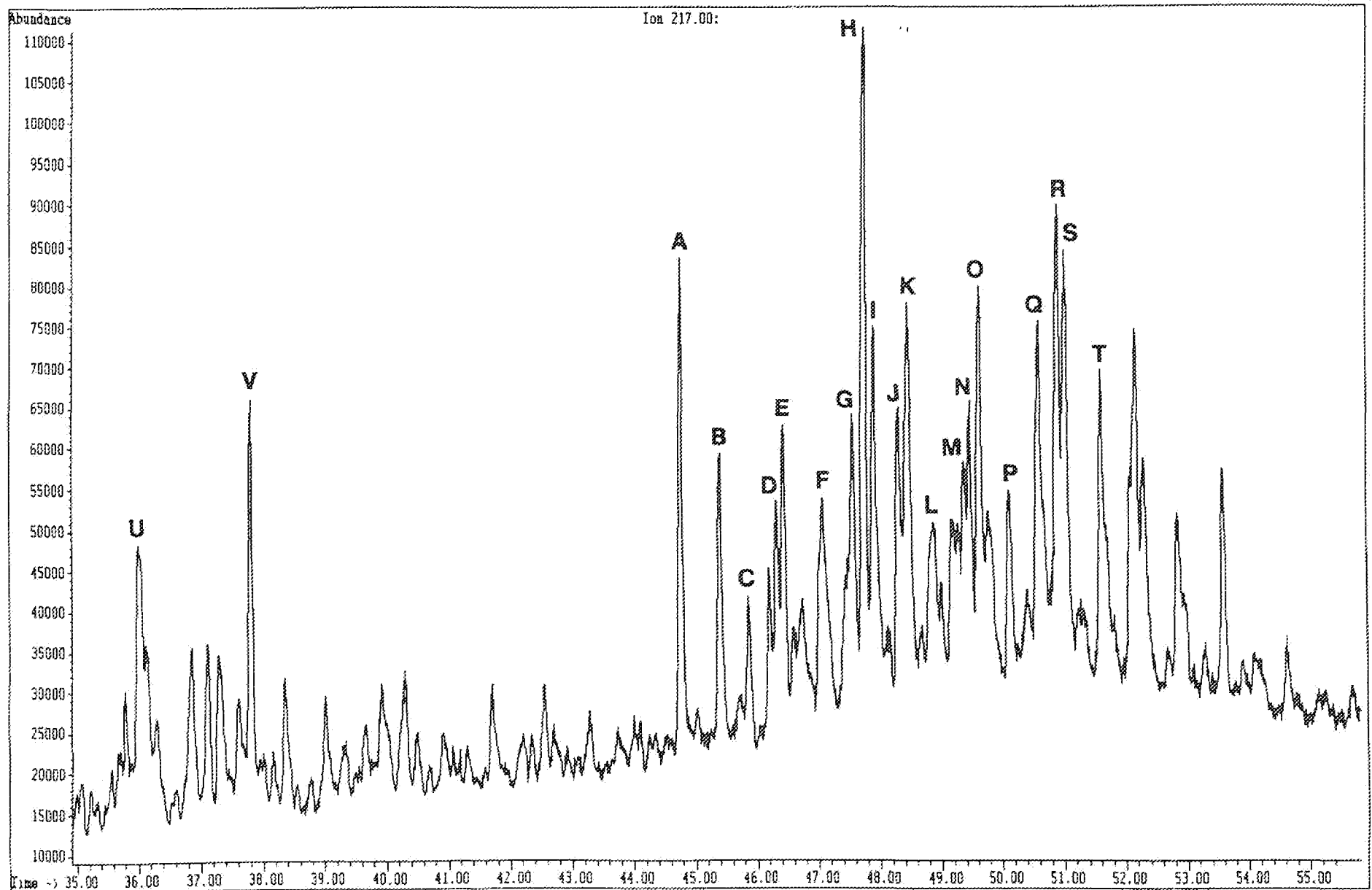
File: D:\CHEMPC\DATA\6201011.D
Operator:
Date Acquired:
Method File Name: B10MY.M
Sample Name: 4072-001A
Misc Info:
Bottle Number: 62

Figure: D3.11
Well: 34/4-6
Depth: 2577.60m



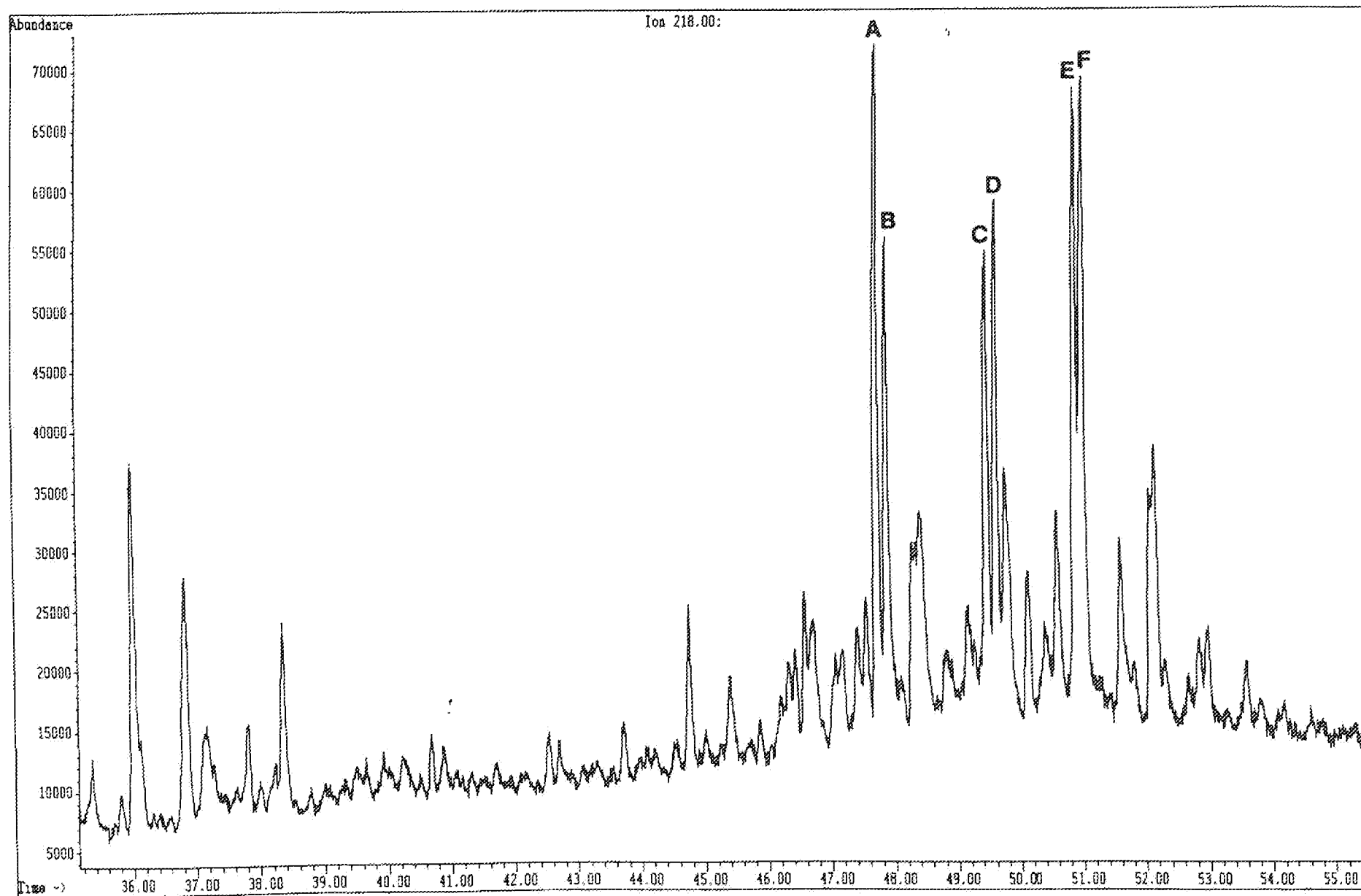
File: D:\CHEMPC\DATA\7701013.D
Operator:
Date Acquired: 0:15 am
Method File Name: B10M.M
Sample Name: 4072-002A
Misc Info:
Bottle Number: 77

Figure: D3.2a
Well: 34/4-6
Depth: 2579.50m



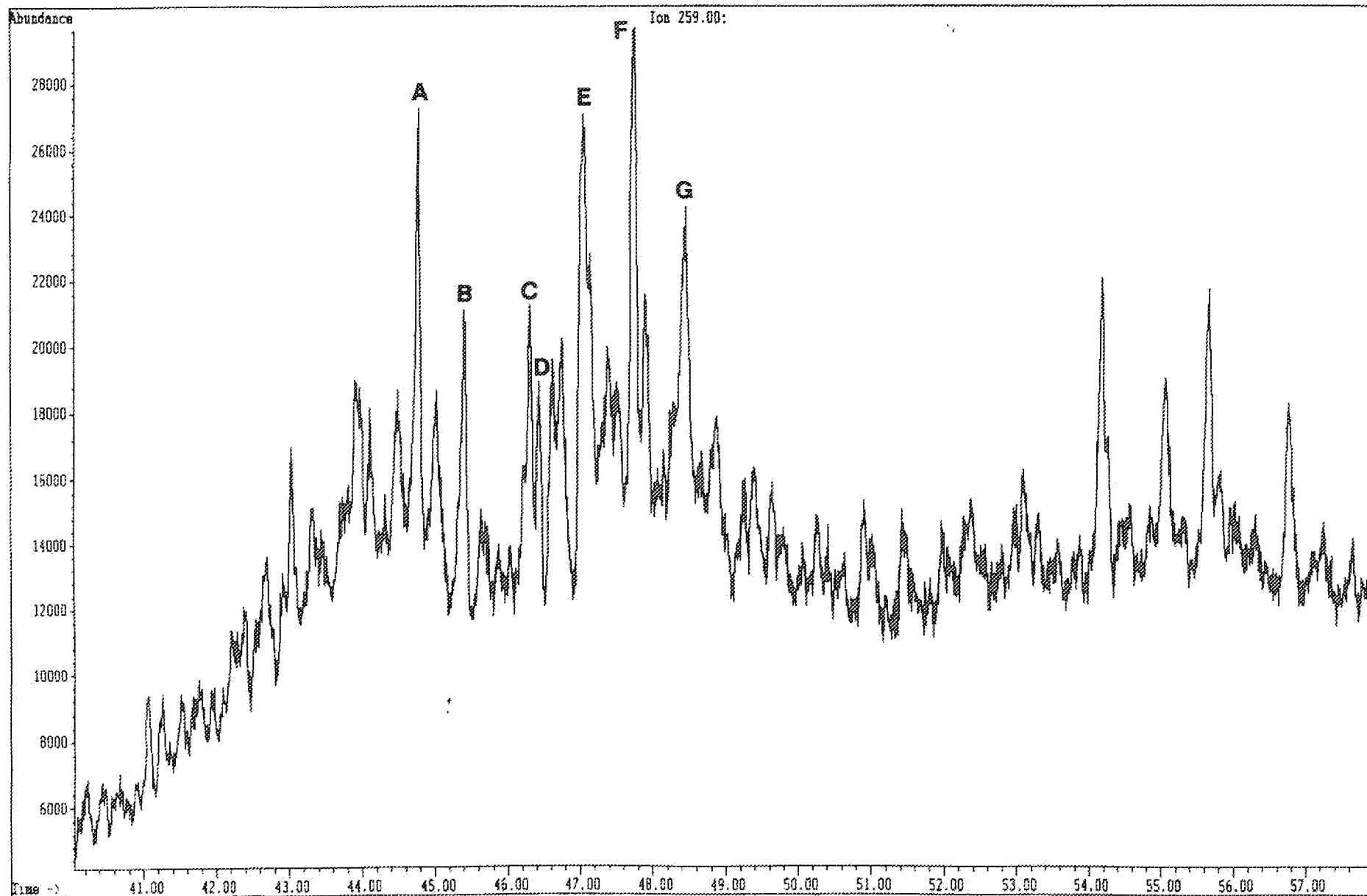
File: D:\CHEMPC\DATA\7701013.D
Operator:
Date Acquired: 8:15 am
Method File Name: BIOM.M
Sample Name: 4072-002A
Misc Info:
Bottle Number: 77

Figure: D3.2b
Well: 34/4-6
Depth: 2579.50m



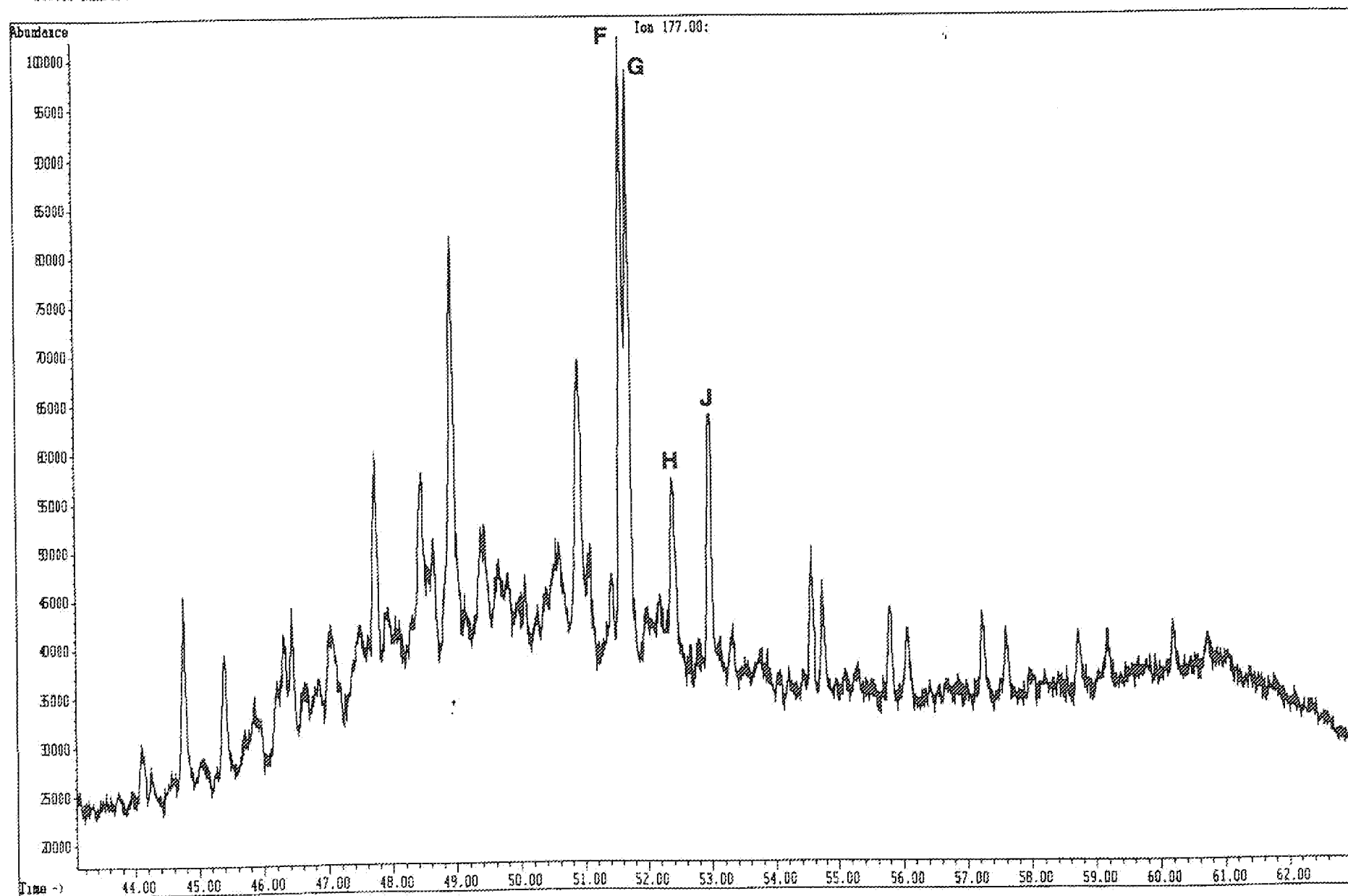
File: D:\CHEMPC\DATA\7701013.D
Operator:
Date Acquired: 0:15 am
Method File Name: BION.M
Sample Name: 4072-002A
Misc Info:
Bottle Number: 77

Figure: D3.2c
Well: 34/4-6
Depth: 2579.50m



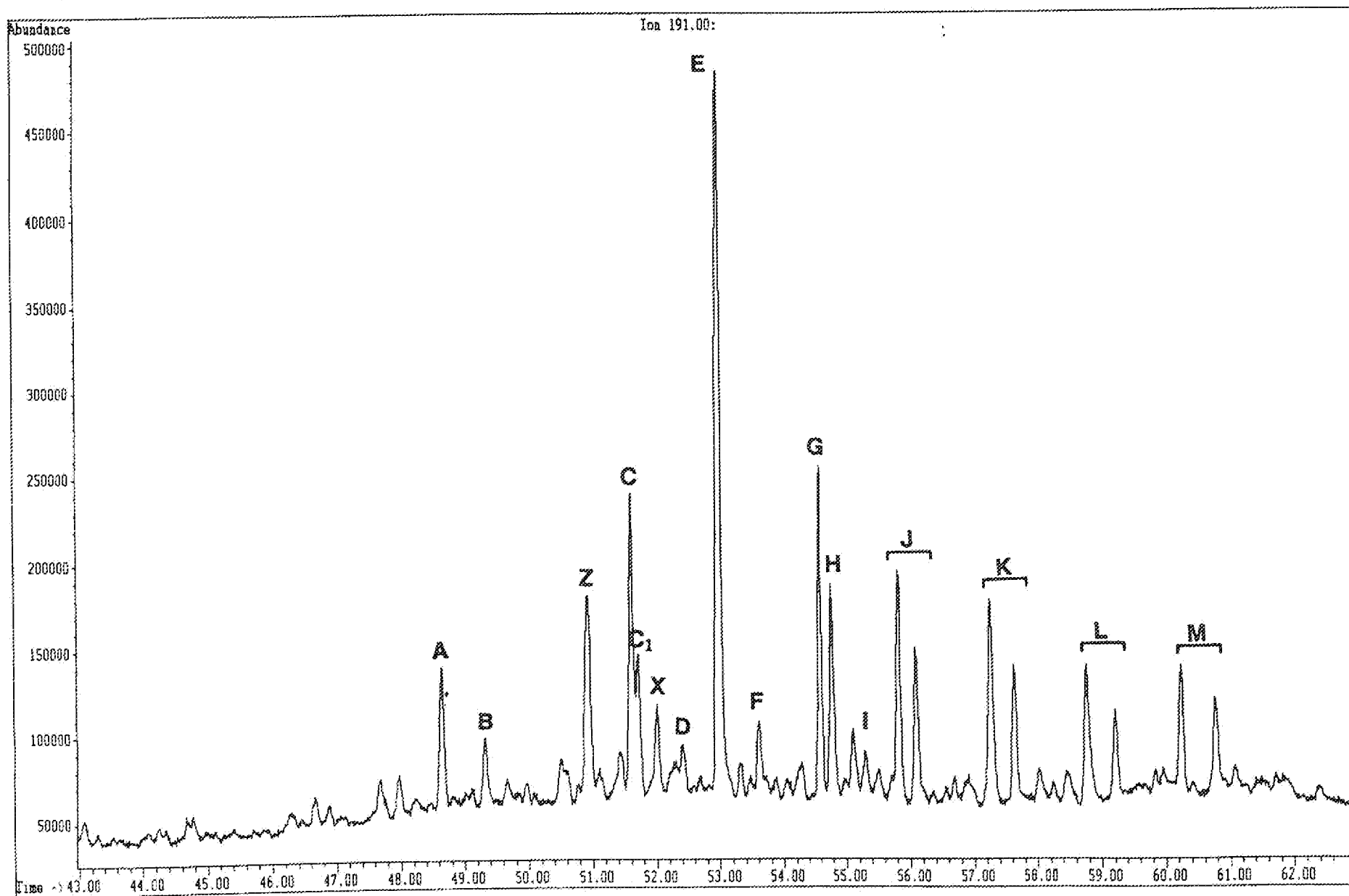
File: D:\CHEMPC\DATA\7701013.D
Operator:
Date Acquired: 0:15 am
Method File Name: B10M.M
Sample Name: 4072-002A
Misc Info:
Bottle Number: 77

Figure: D3.2d
Well: 34/4-6
Depth: 2579.50m



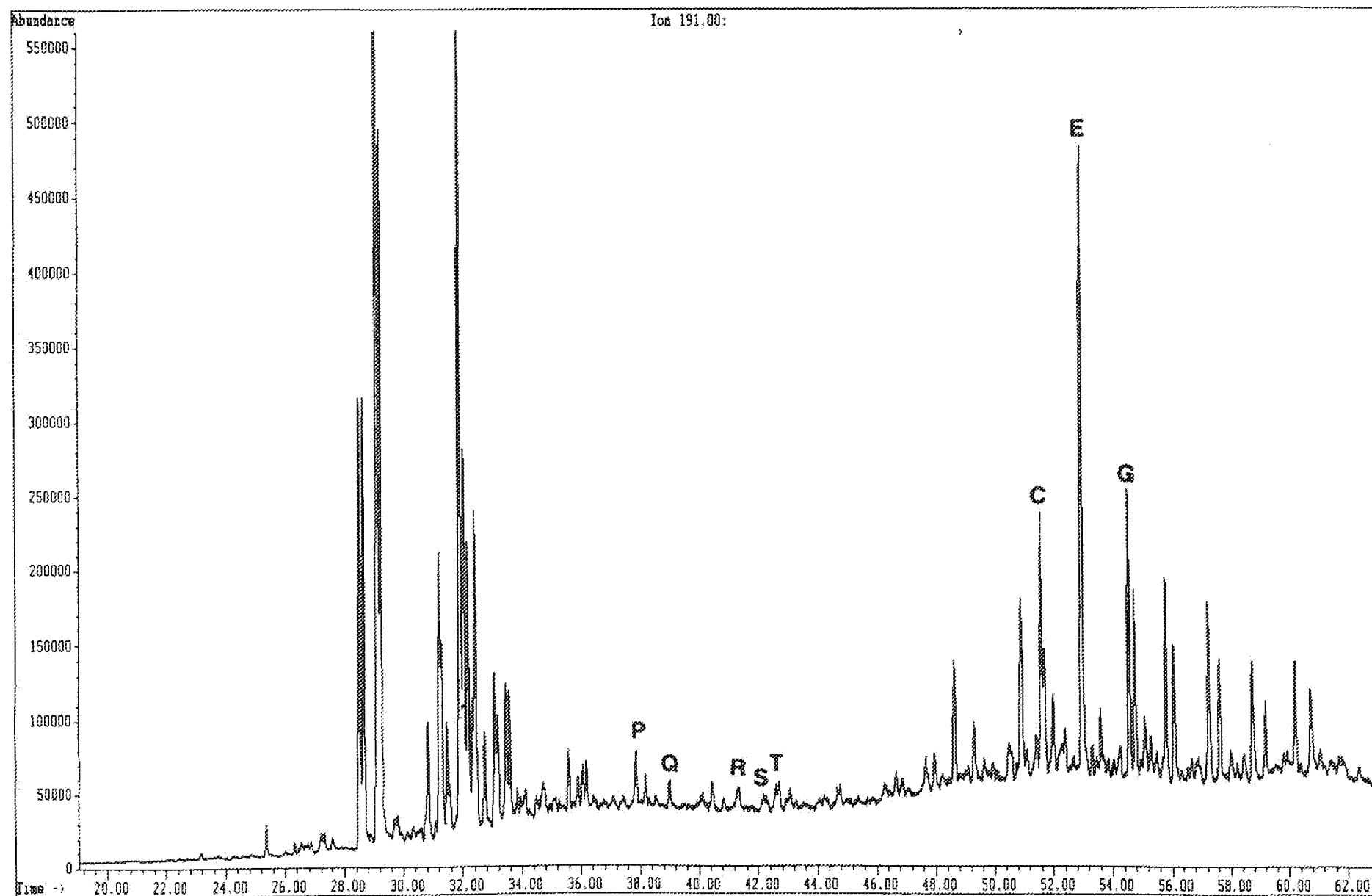
File: D:\CHEMPC\DATA\7701013.D
Operator:
Date Acquired: 8:15 am
Method File Name: BIOM.M
Sample Name: 4072-002A
Misc Info:
Bottle Number: 77

Figure: D3.2e
Well: 34/4-6
Depth: 2579.50m



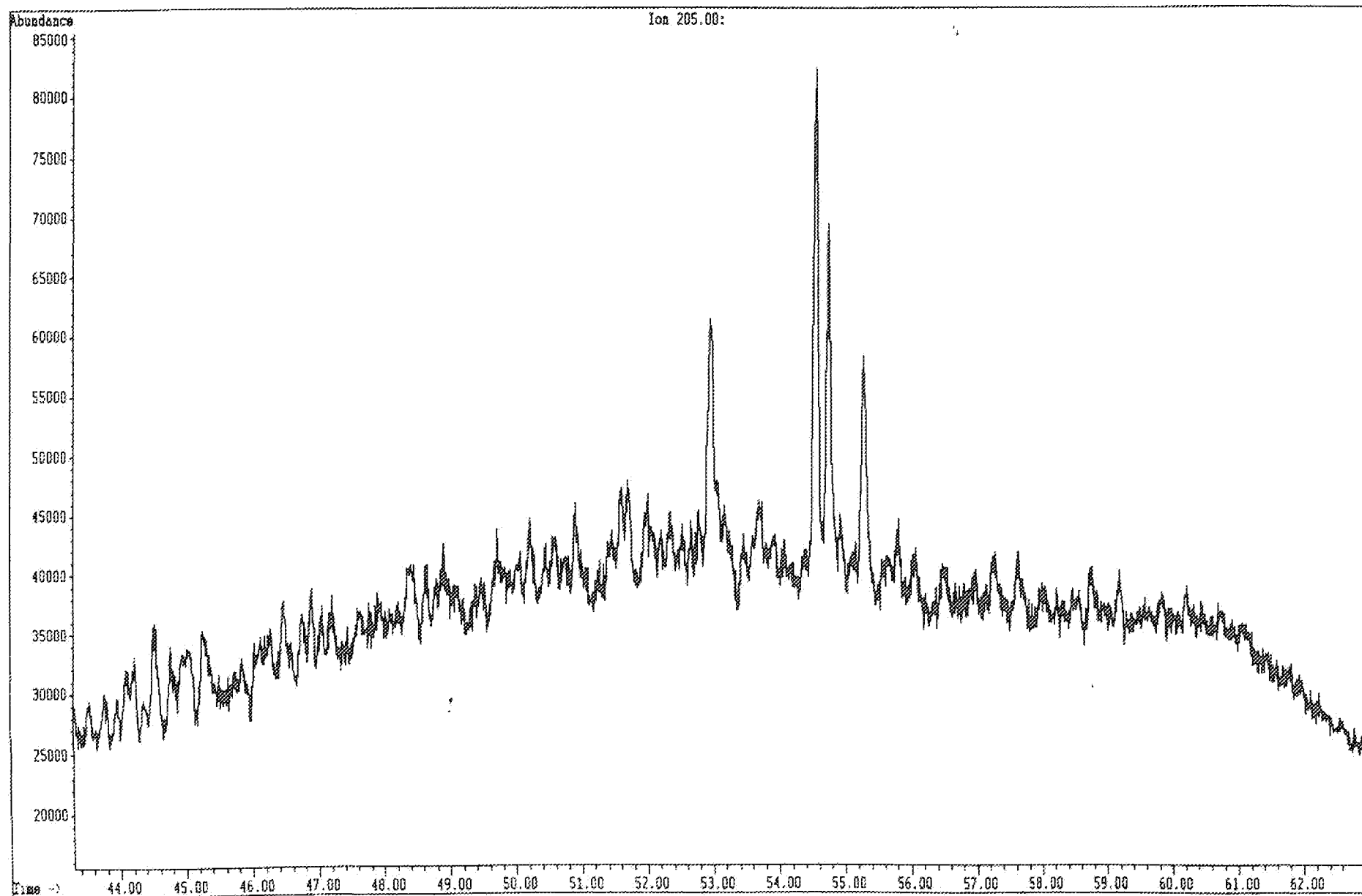
File: D:\CHEMPC\DATA\7701013.D
Operator:
Date Acquired: 0:15 am
Method File Name: BICM.M
Sample Name: 4072-002A
Misc Info:
Bottle Number: 77

Figure: D3.2f
Well: 34/4-6
Depth: 2579.50m



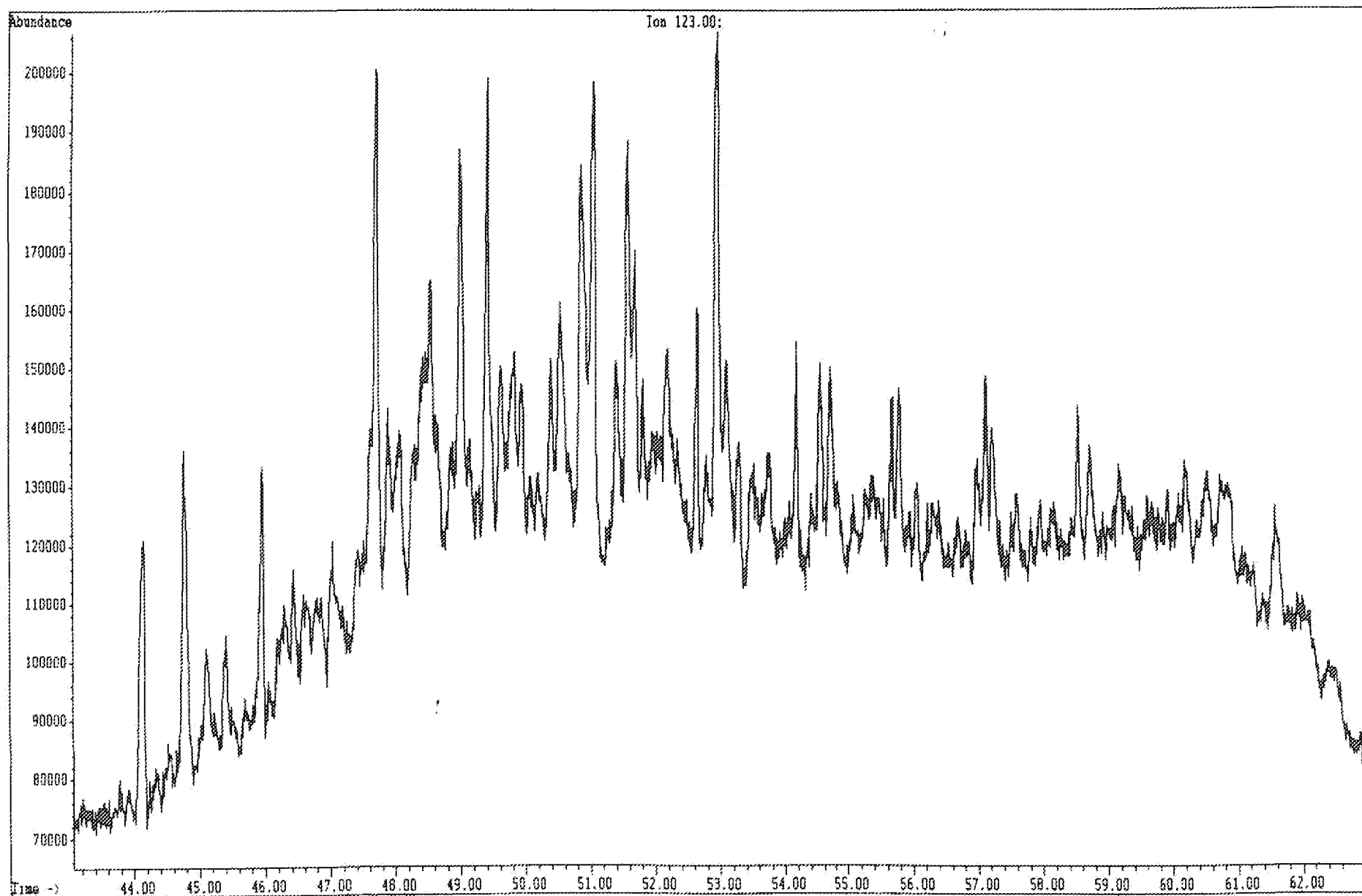
File: D:\CHEMPC\DATA\7701013.D
Operator:
Date Acquired: 0:15 am
Method File Name: BIOM.M
Sample Name: 4072-002A
Misc Info:
Bottle Number: 77

Figure: D3.2g
Well: 34/4-6
Depth: 2579.50m



File: D:\CHEMPC\DATA\7701013.D
Operator:
Date Acquired: 8:15 am
Method File Name: B10M.M
Sample Name: 4072-002A
Misc Info:
Bottle Number: 77

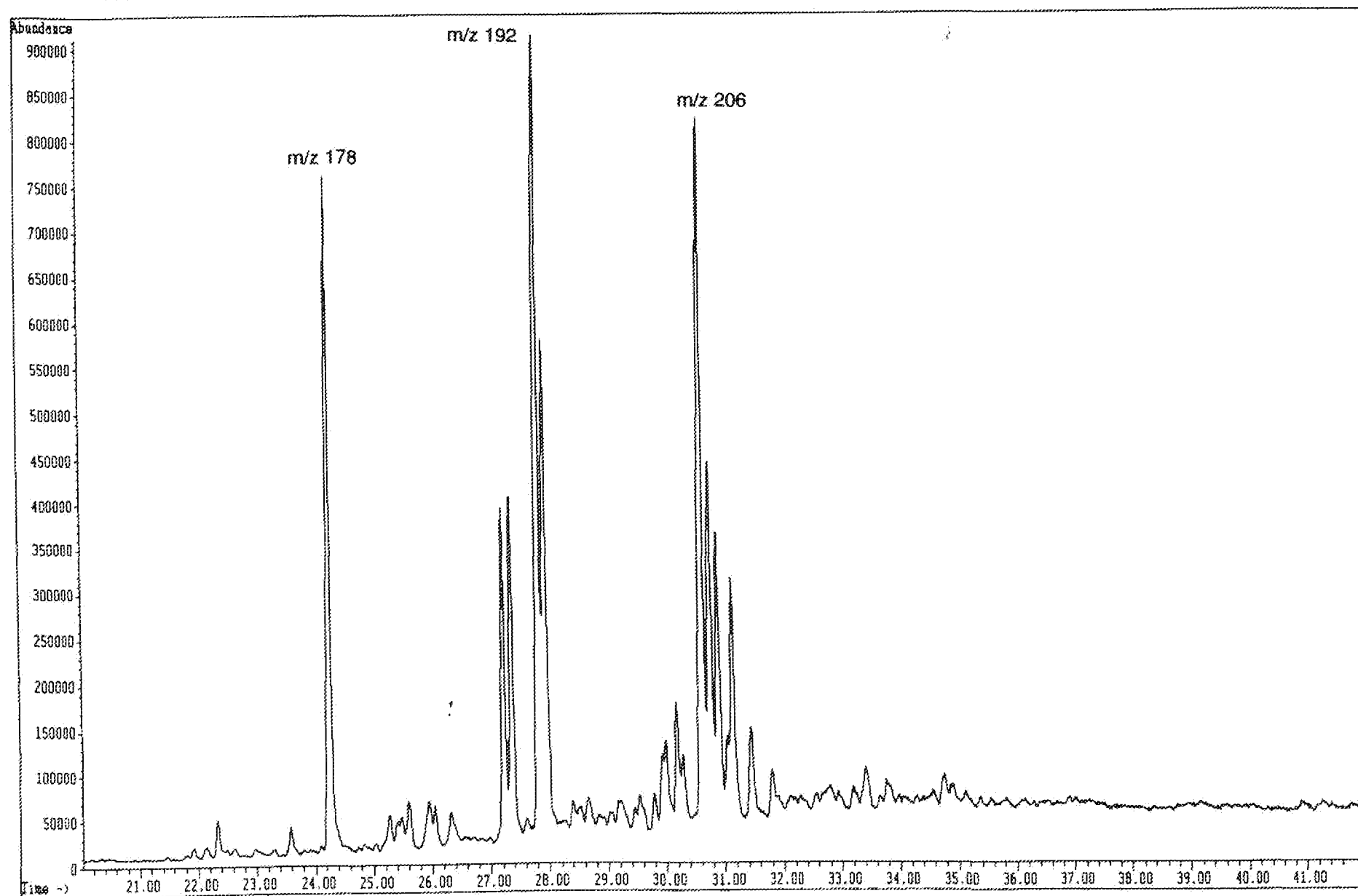
Figure: D3.2h
Well: 34/4-6
Depth: 2579.50m



File: D:\CHEMPC\DATA\6301012.D
Operator:
Date Acquired:
Method File Name: B10MY.M
Sample Name: 4072-002A
Misc Info:
Bottle Number: 63

Phenanthrenes

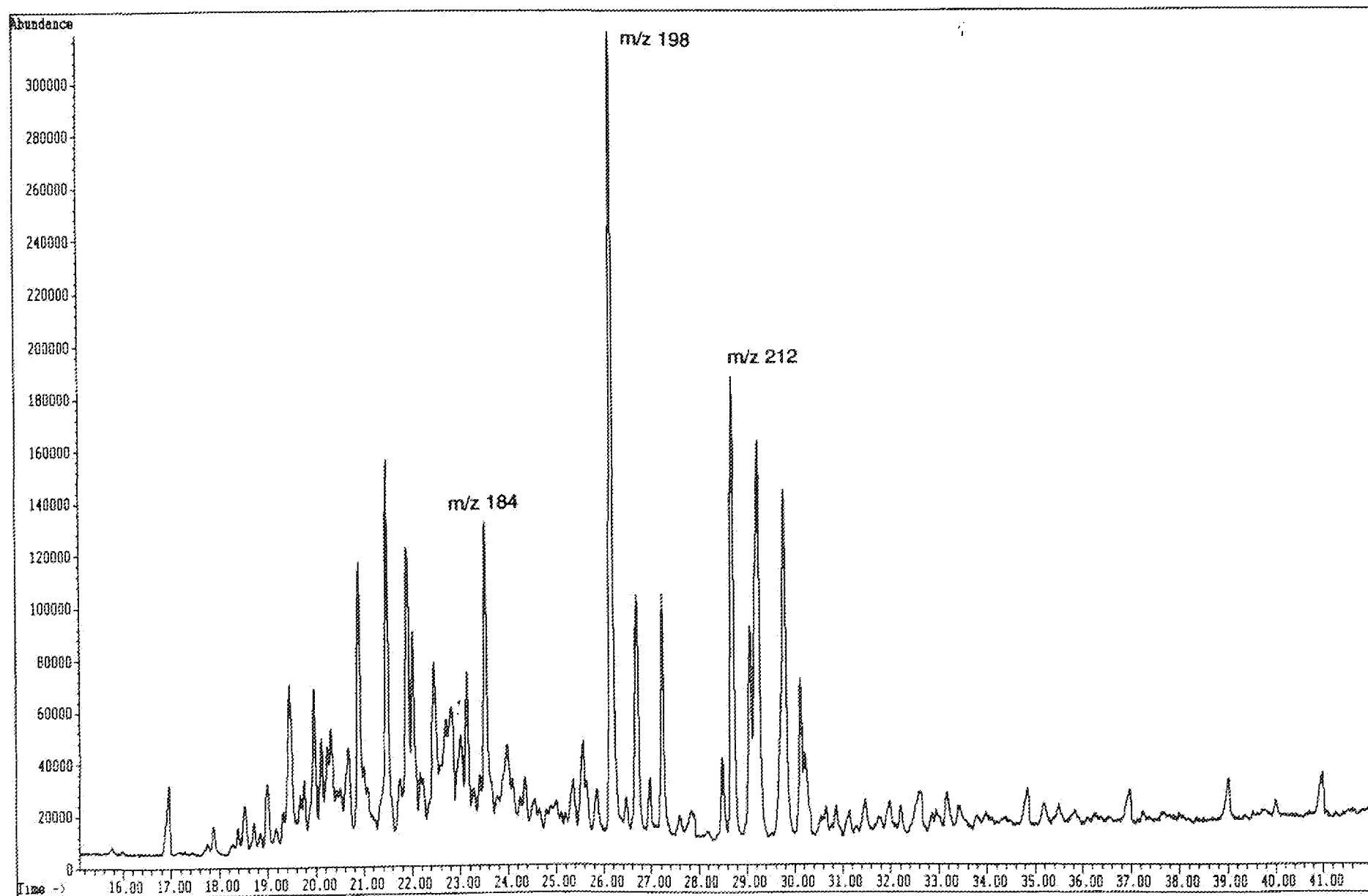
Figure: D3.2i
Well: 34/4-6
Depth: 2579.50m



File: D:\CHEMPC\DATA\6301012.D
Operator:
Date Acquired:
Method File Name: BICMY.M
Sample Name: 4072-002A
Misc Info:
Bottle Number: 63

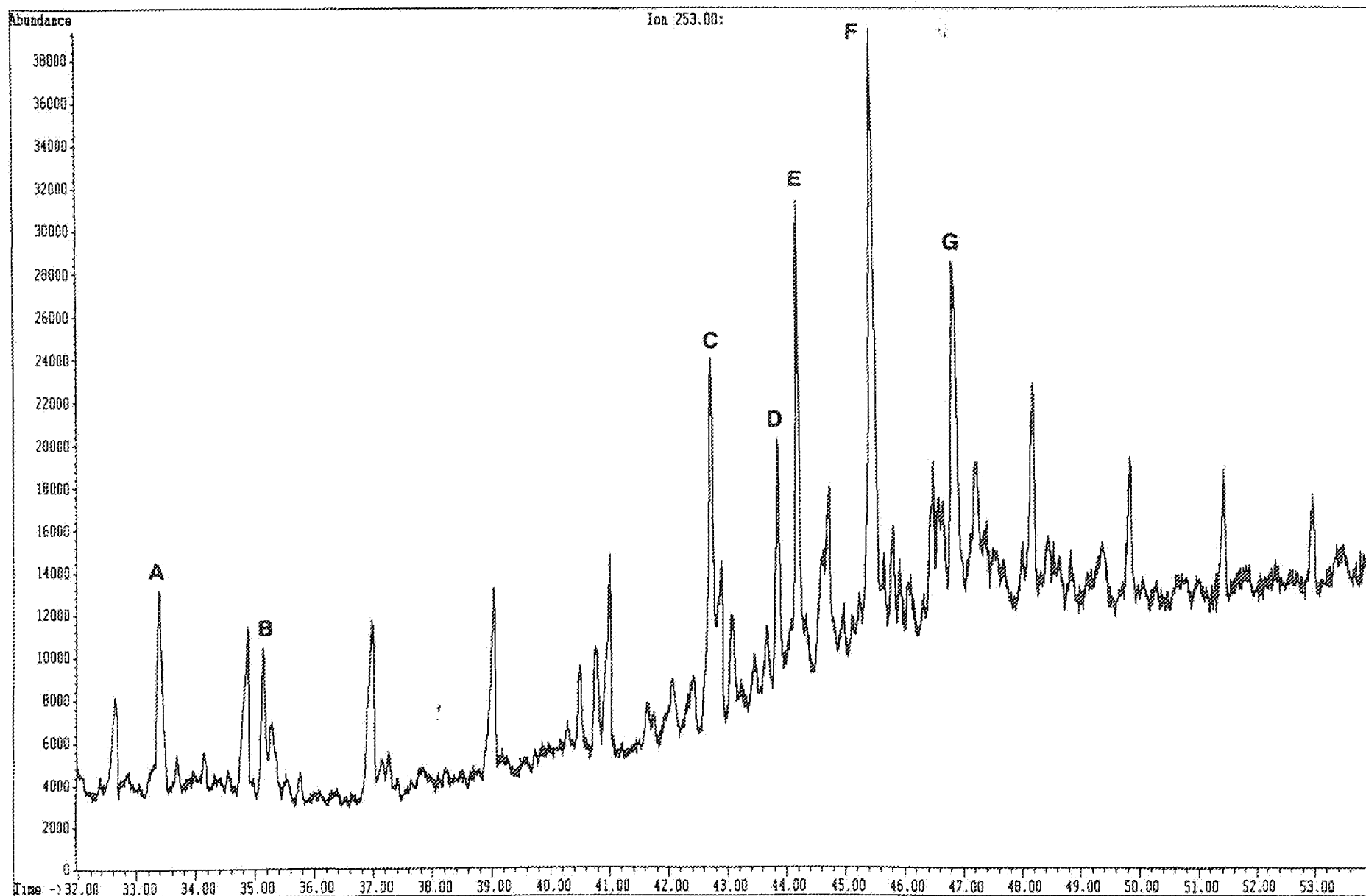
Dibenzothiophenes

Figure: D3.2j
Well: 34/4-6
Depth: 2579.50m



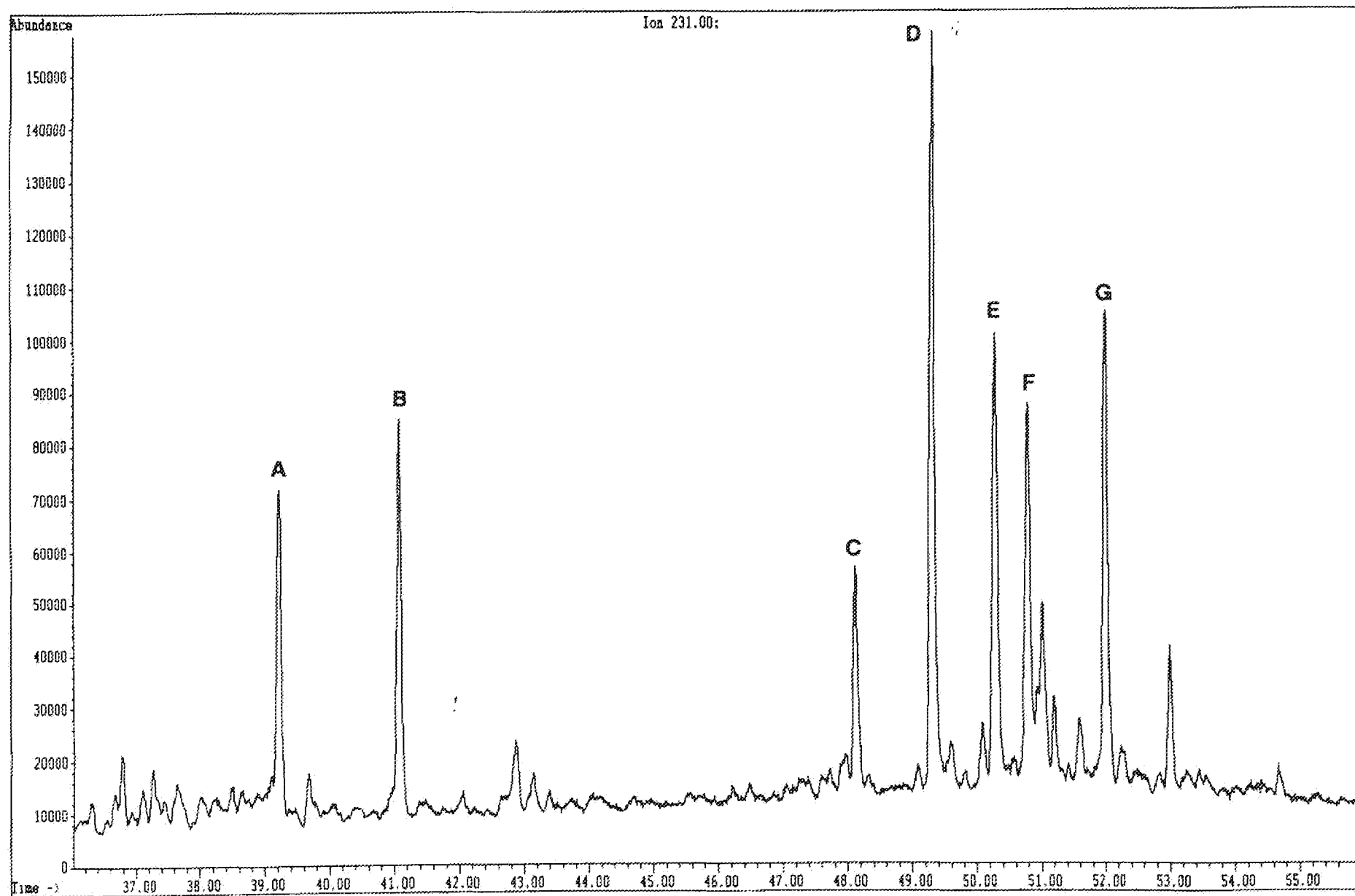
File: E:\CHEMPC\DATA\6301012.D
Operator:
Date Acquired:
Method File Name: B10MY.M
Sample Name: 4072-002A
Misc Info:
Bottle Number: 63

Figure: D3.2k
Well: 34/4-6
Depth: 2579.50m



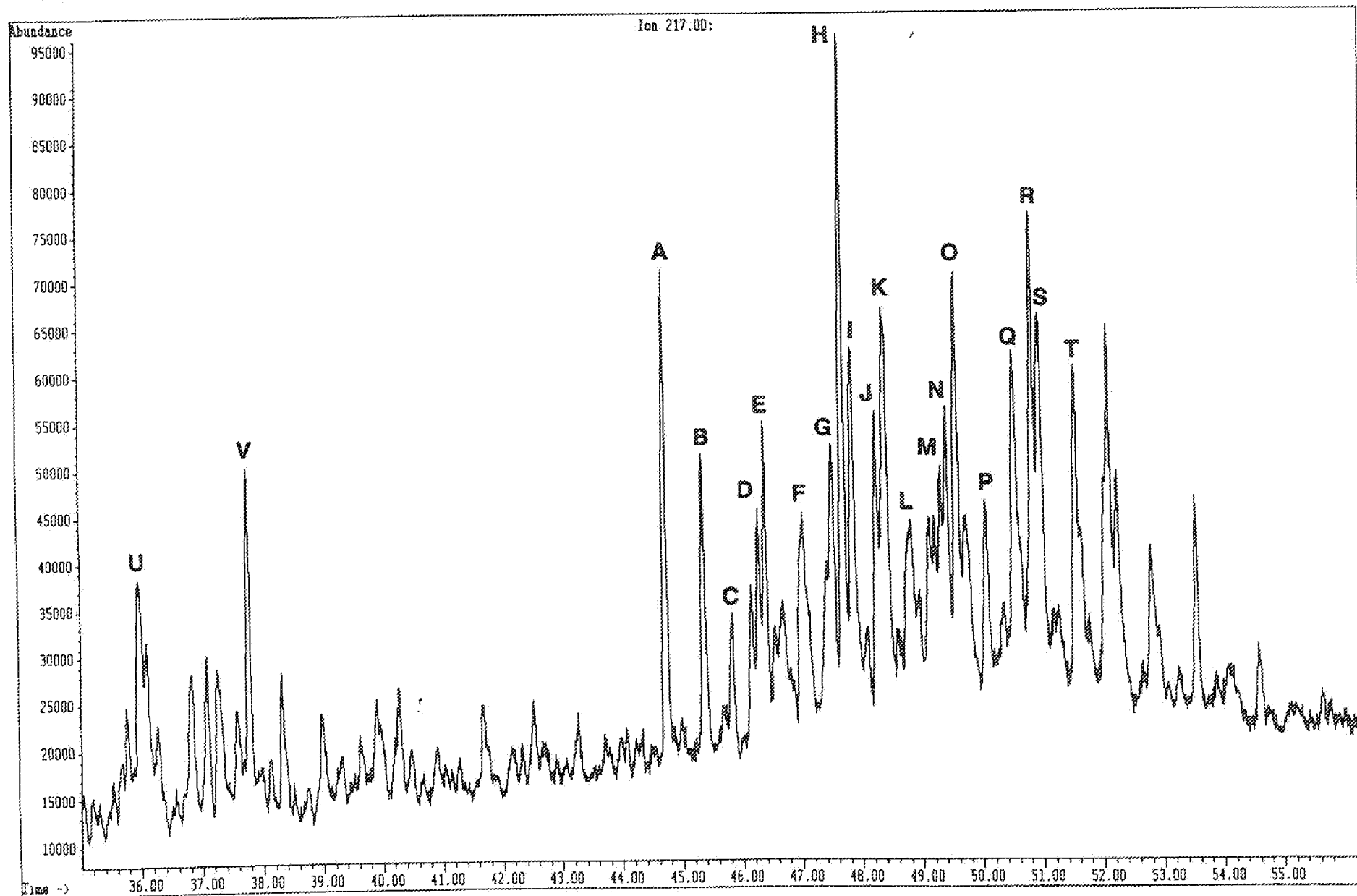
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Operator:
Date Acquired:
Method File Name: B10MY.M
Sample Name: 4072-002A
Misc Info:
Bottle Number: 63

Figure: D3.21
Well: 34/4-6
Depth: 2579.50m



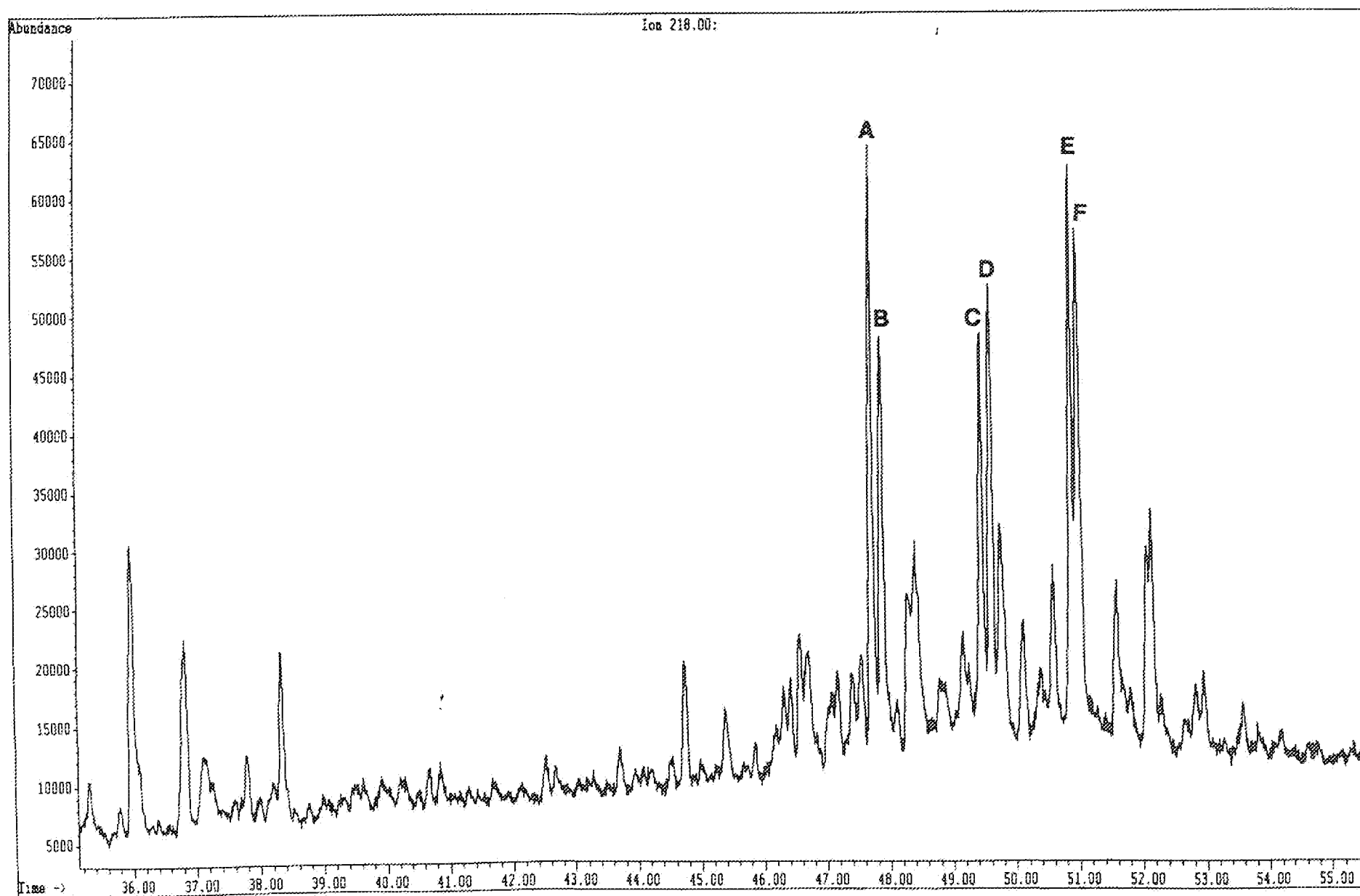
File: D:\CHEMPC\DATA\7801014.D
Operator:
Date Acquired: 1:25 am
Method File Name: BIOM.M
Sample Name: 4072-003A
Misc Info:
Bottle Number: 76

Figure: D3.3a
Well: 34/4-6
Depth: 2581.50m



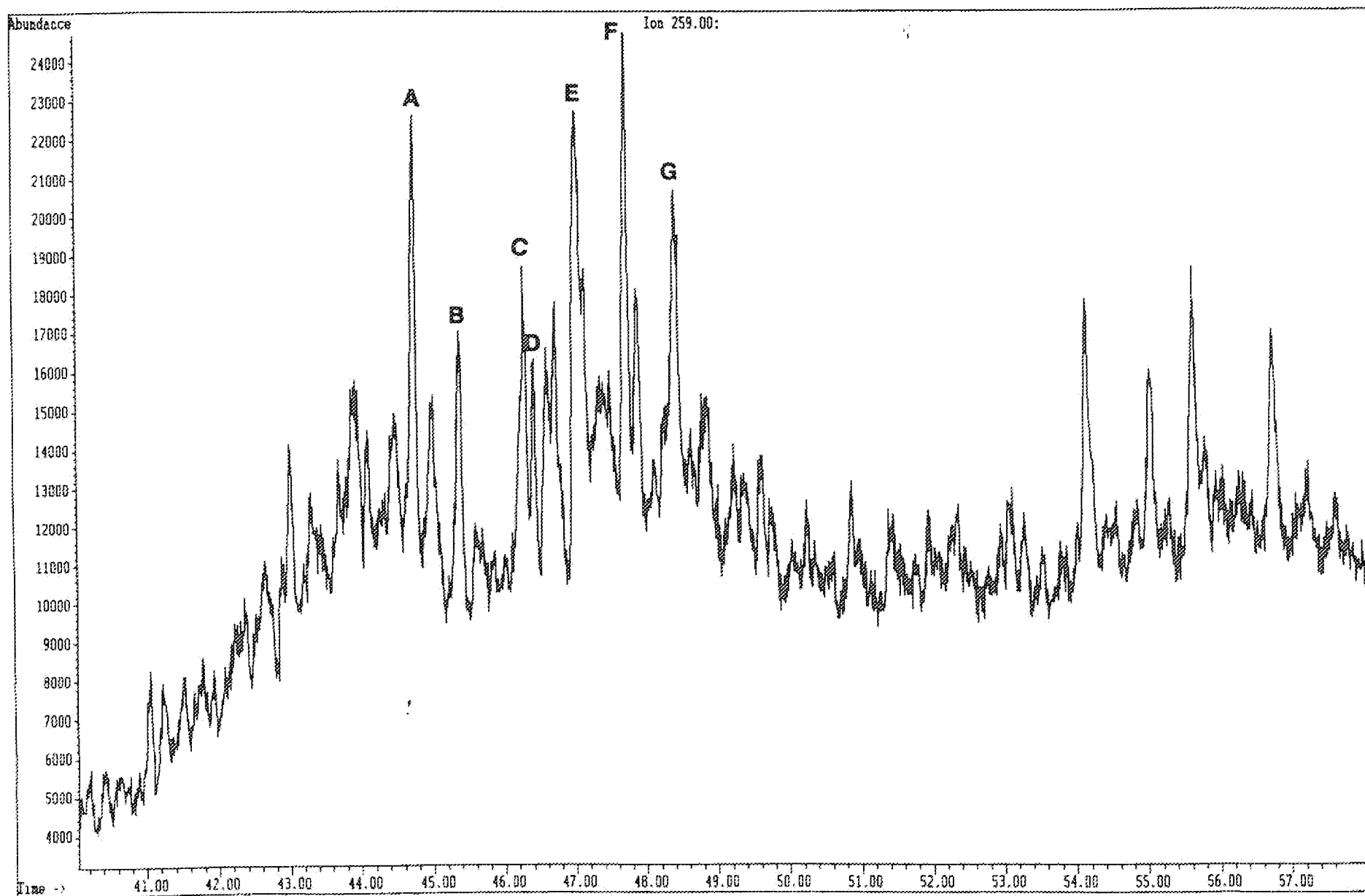
File: D:\CHEMPC\DATA\7801014.D
Operator:
Date Acquired: 1:25 am
Method File Name: B10M.M
Sample Name: 4072-003A
Misc Info:
Bottle Number: 78

Figure: D3.3b
Well: 34/4-6
Depth: 2581.50m



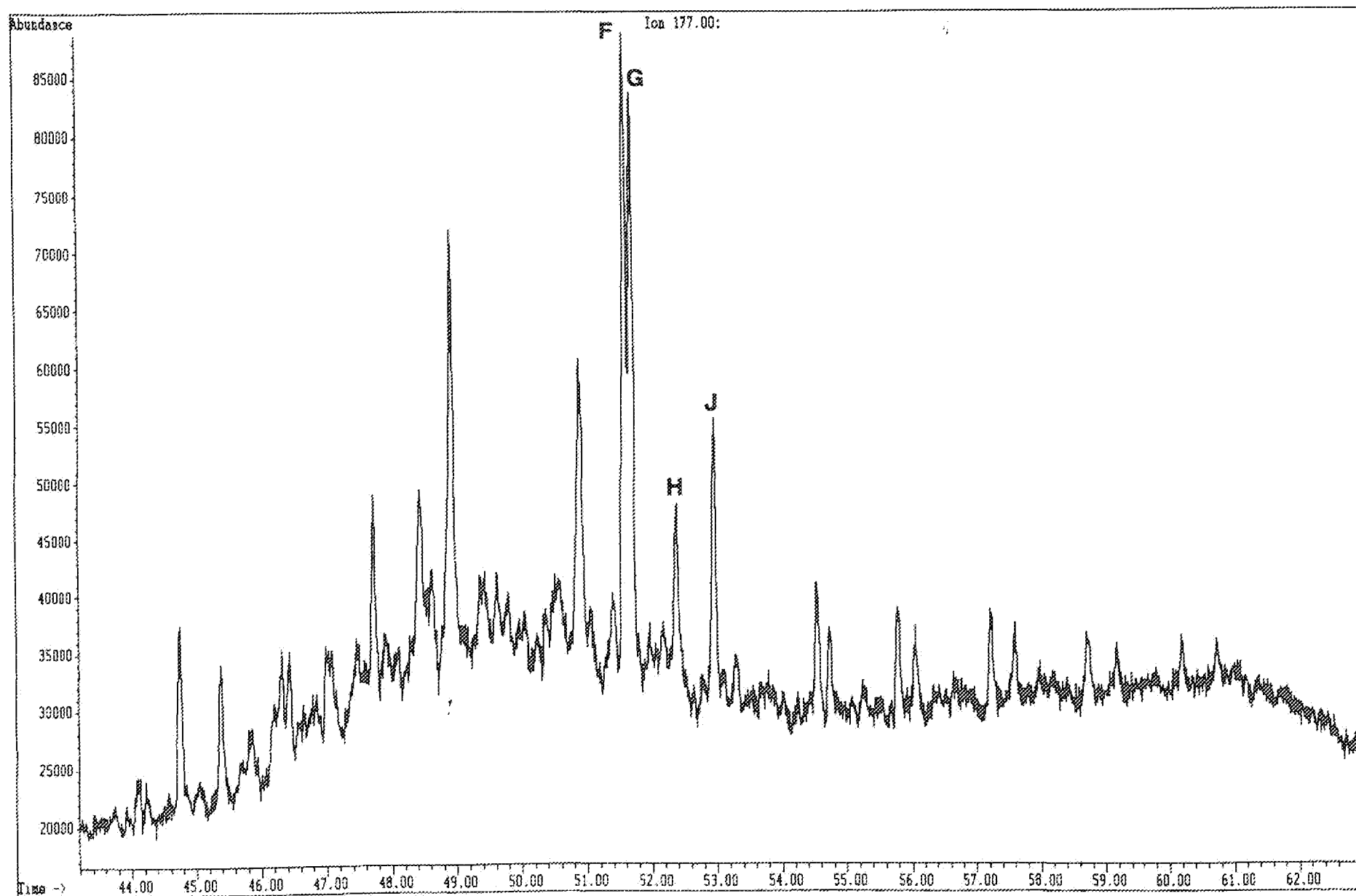
File: D:\CHEMPC\DATA\7801014.D
Operator:
Date Acquired: 1:25 am
Method File Name: B10M.M
Sample Name: 4072-003A
Misc Info:
Bottle Number: 78

Figure: D3.3c
Well: 34/4-6
Depth: 2581.50m



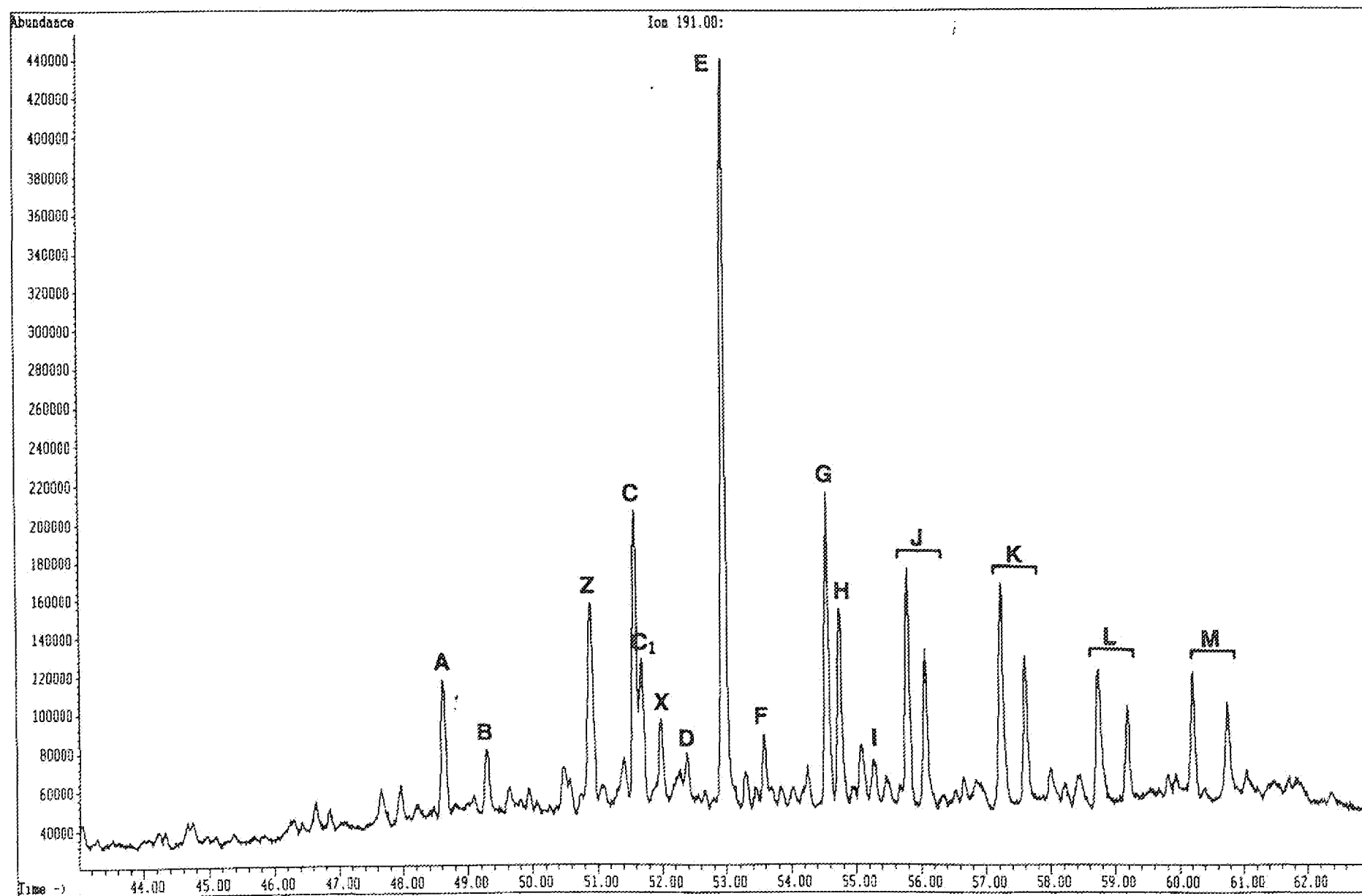
File: D:\CHEMPC\DATA\7801014.D
Operator:
Date Acquired: 1:25 am
Method File Name: B10M.M
Sample Name: 4872-003A
Misc Info:
Bottle Number: 7B

Figure: D3.3d
Well: 34/4-6
Depth: 2581.50m



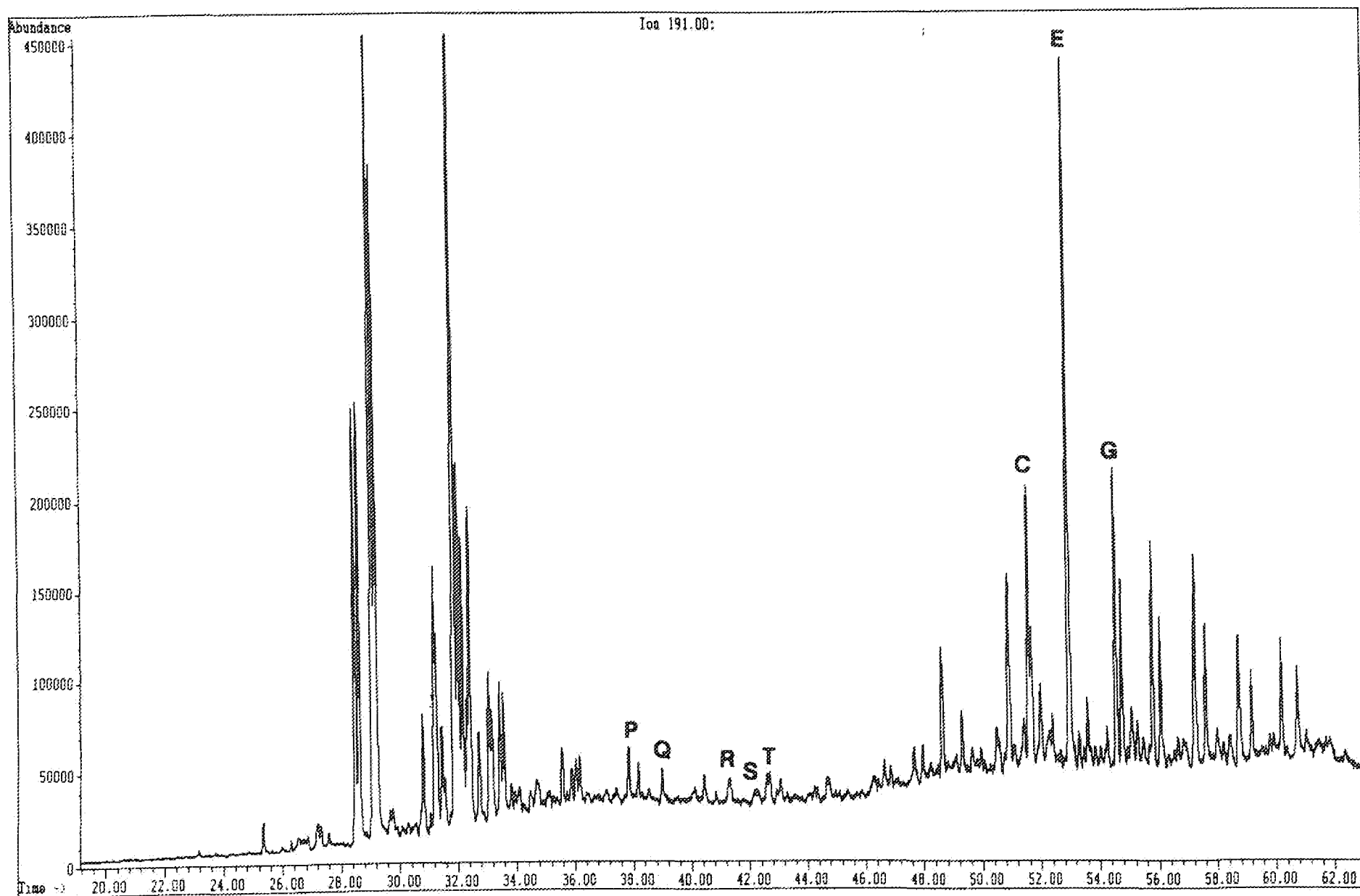
File: D:\CHEMPC\DATA\7801014.D
Operator:
Date Acquired: 1:25 am
Method File Name: BIOM.M
Sample Name: 4072-003A
Misc Info:
Bottle Number: 78

Figure: D3.3e
Well: 34/4-6
Depth: 2581.50m



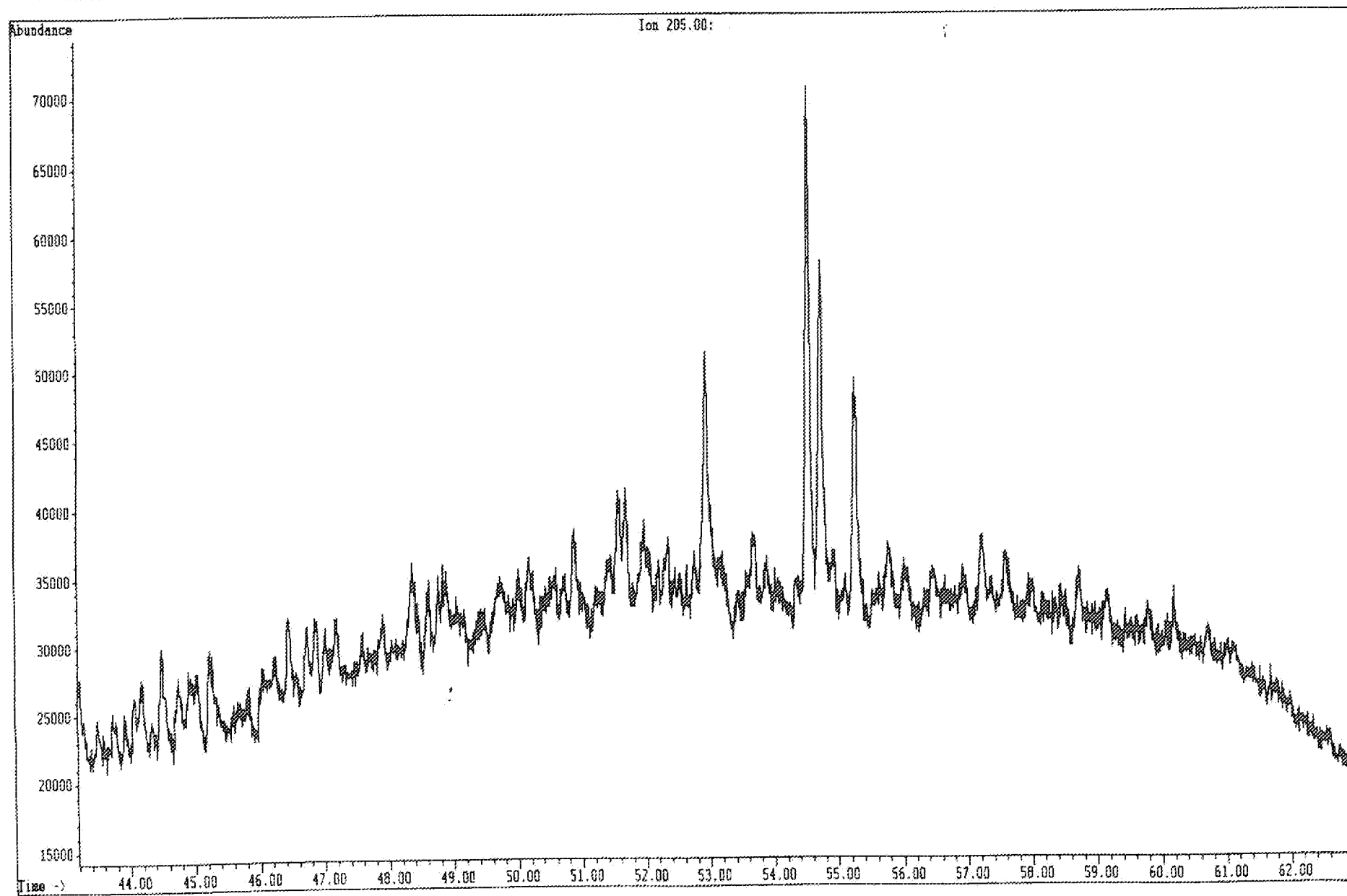
File: D:\CHEMPC\DATA\7401014.0
Operator:
Date Acquired: 1:25 am
Method File Name: BIOM.M
Sample Name: 4072-003A
Misc Info:
Bottle Number: 78

Figure: D3.3f
Well: 34/4-6
Depth: 2581.50m



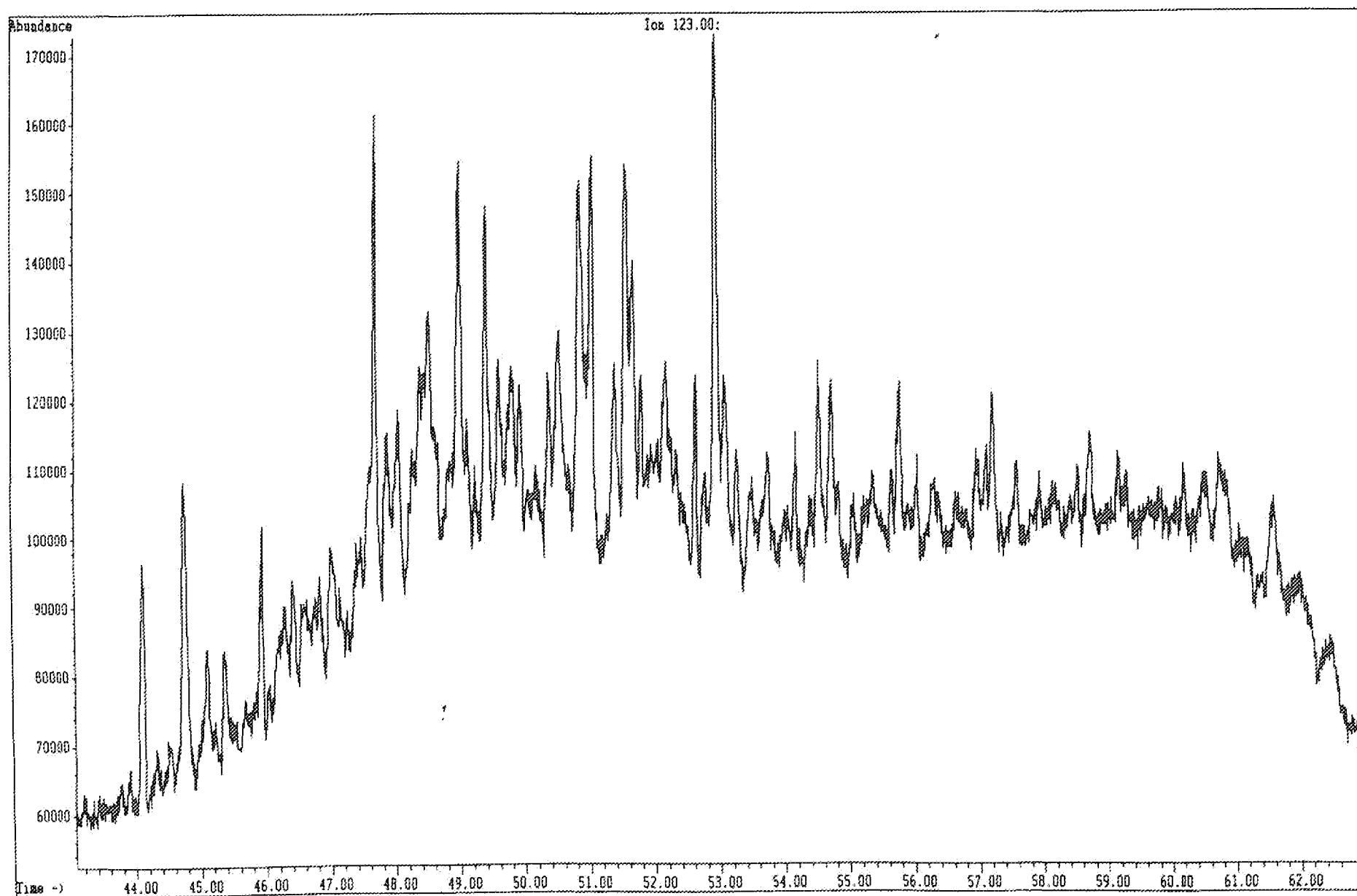
File: D:\CHEMPC\DATA\7801014.D
Operator:
Date Acquired: 1:25 am
Method File Name: B10M.M
Sample Name: 4072-003A
Misc Info:
Bottle Number: 78

Figure: D3.3g
Well: 34/4-6
Depth: 2581.50m



File: D:\CHEMPC\DATA\7801014.D
Operator:
Date Acquired: 1:25 am
Method File Name: BIOM.M
Sample Name: 4072-003A
Misc Info:
Bottle Number: 78

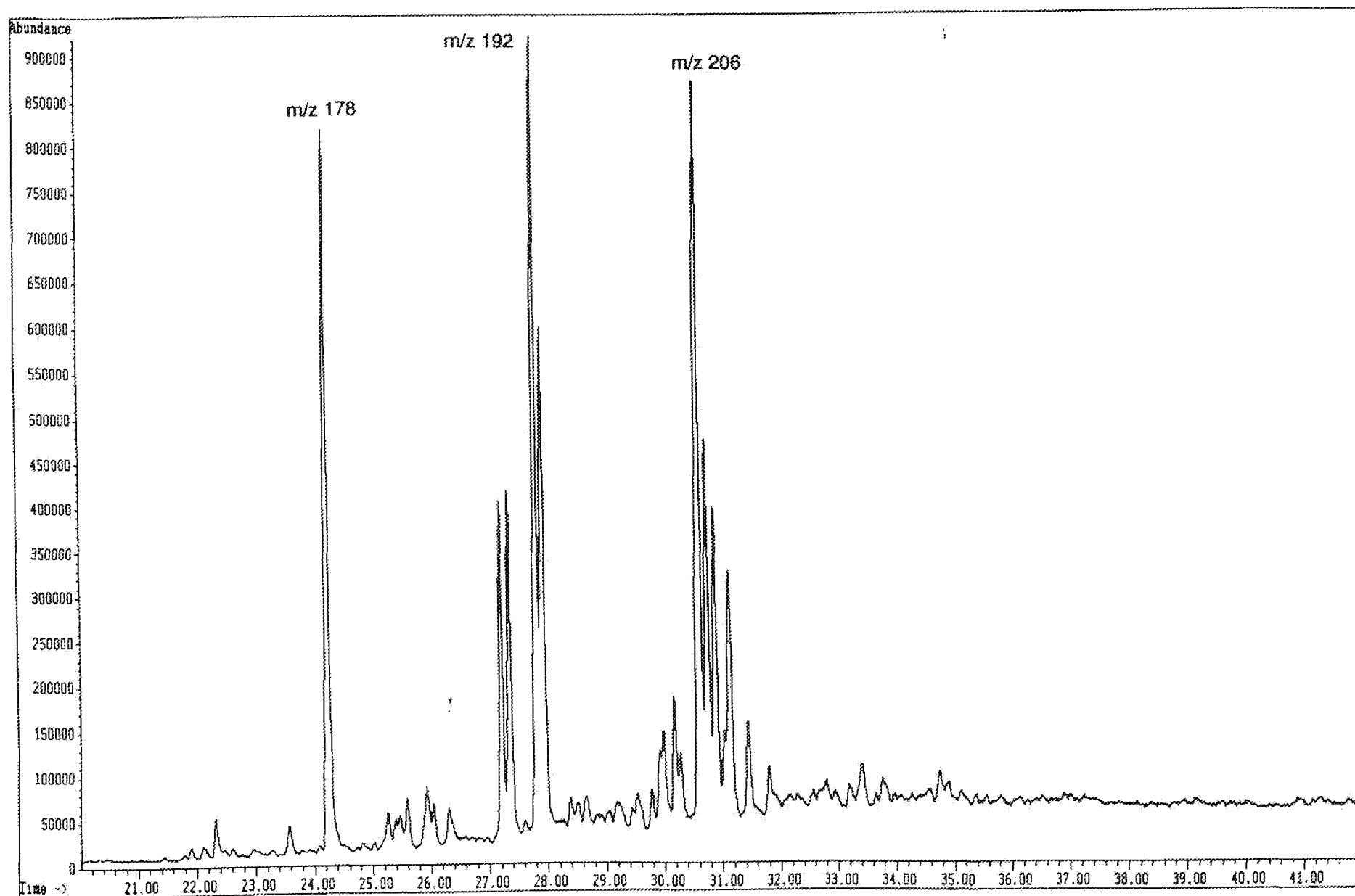
Figure: D3.3h
Well: 34/4-6
Depth: 2581.50m



File: D:\CHEMPC\DATA\6401013.D
Operator:
Date Acquired:
Method File Name: BIONY.M
Sample Name: 4072-003A
Misc Info:
Bottle Number: 64

Figure: D3.3i
Well: 34/4-6
Depth: 2581.50m

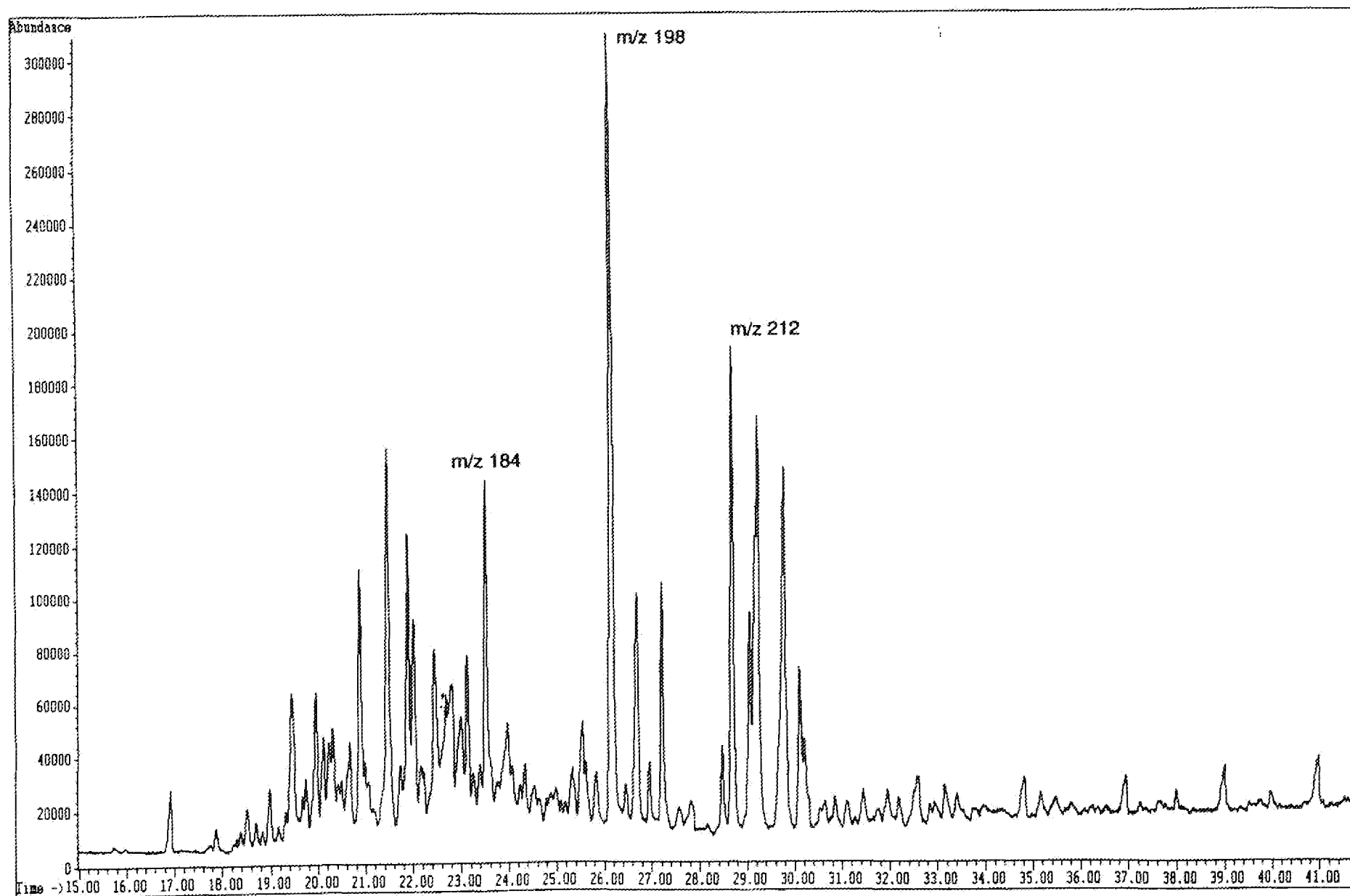
Phenanthrenes



File: D:\CHEMPC\DATA\6401013.D
Operator:
Date Acquired:
Method File Name: B10MY.M
Sample Name: 4072-003A
Misc Info:
Bottle Number: 64

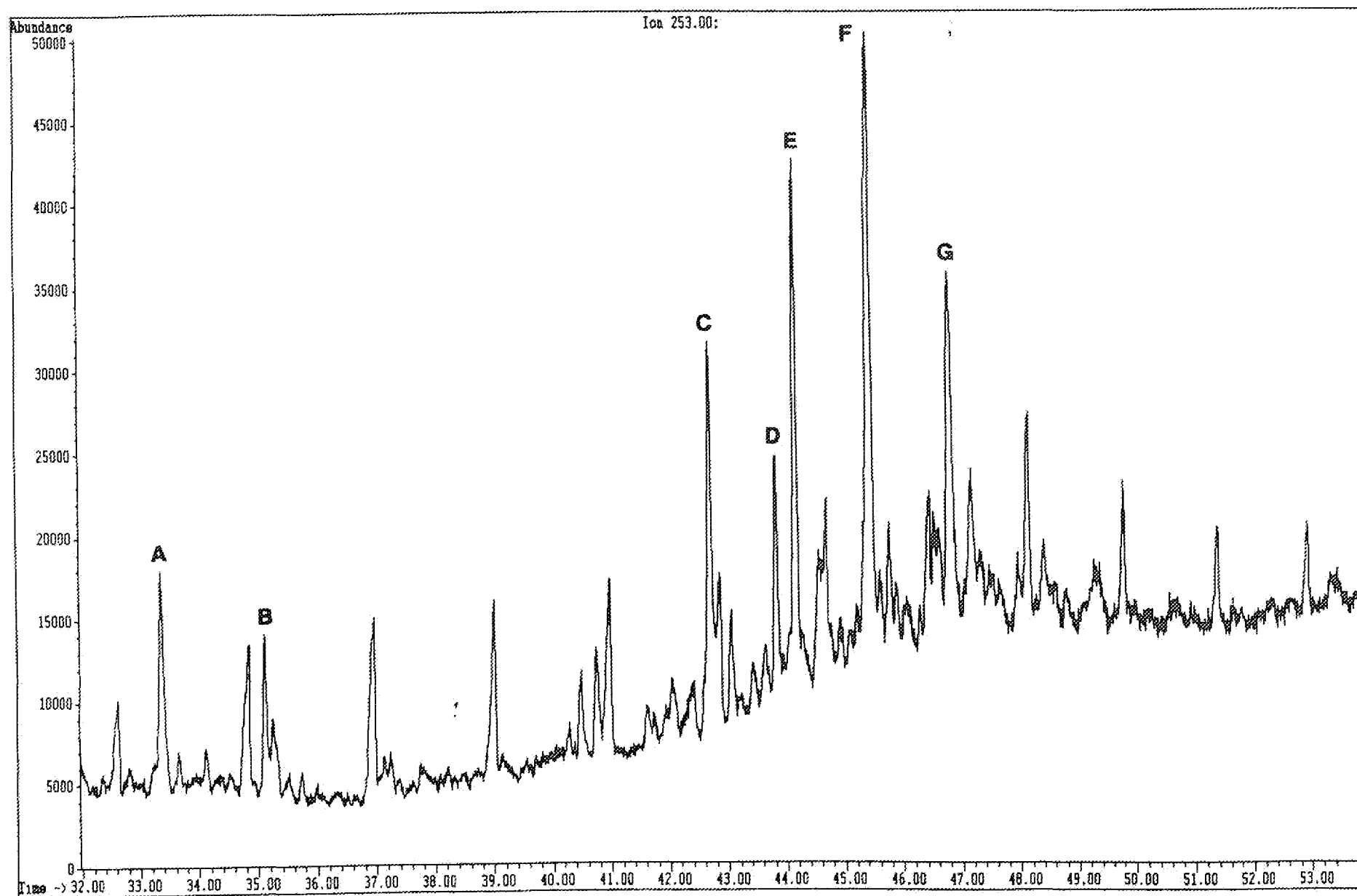
Figure: D3.3j
Well: 34/4-6
Depth: 2581.50m

Dibenzothiophenes



File: D:\CHEMPC\DATA\6401013.D
Operator:
Date Acquired:
Method File Name: BIOMY.M
Sample Name: 4072-003A
Misc Info:
Bottle Number: 64

Figure: D3.3k
Well: 34/4-6
Depth: 2581.50m



File: D:\CHEMPC\DATA\6401013.D
Operator:
Data Acquired:
Method File Name: BIONY.M
Sample Name: 4072-003A
Misc Info:
Bottle Number: 64

Figure: D3.3I
Well: 34/4-6
Depth: 2581.50m

