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Memorandum Number: SL/93/628

Title:

GEOCHEMICAL INTERPRETATION OF WELL 34/7-21 & 34/7-21A

BA-93-2413-1

Prepared For:

**SAGA PETROLEUM A.S.
KJØRBOVEIEN 16
POSTBOKS 490
1301 SANDVIKA
NORWAY**

**Author's signature
Mr M C Wadsworth**

M. C. Wadsworth Date **8/10/93**

**General Manager
Mr J McEwan**

J. McEwan Date **8/10/93**

1 SUMMARY & INTRODUCTION

Client name	Saga Petroleum A.S.
Well name	34/7-21 & 34/7-21A
Location	Norwegian North Sea
Dates of receipt	11/11, 20/11, 26/11/92 + 6/1, 3/2 & 18/3/93
Dates of analysis	7/1/93 – 20/9/93
Sample types	Cuttings, Cores, SWCs & Oils
SL job no	92094
Client ref nos	AKJ-93-20035 AKJ-93-20228 AKJ-93-20391 AKJ-93-20392

Petroleum geochemical evaluations have been carried out on behalf of Saga Petroleum A/S of the interval 1390m to 3014m in the 34/7-21 well and the interval 2190m to 3195m in the 34/7-21A sidetrack well. The objectives of the geochemical analytical programme were to determine the thermal maturity of the well section, evaluate the hydrocarbon source potential of the stratigraphic units, identify and characterise any migrant hydrocarbons and to correlate these to the likely source rock. For detailed explanation of methodologies used refer to experimental procedures section, page 43. A detailed analytical program (table 1) and a Lithostratigraphic breakdown (Table 2) follows this summary.

Maturation levels were determined using vitrinite reflectance and spore colouration microscopy techniques, augmented by analyses of headspace and occluded gaseous hydrocarbons, Rock-Eval pyrolysis Tmax data, and by gas chromatography and gas chromatography-mass spectrometry (GC-MS) maturity parameters.

ANALYTICAL PROGRAM - Table 1

Well	Nation	Sample name	Upper Depth	Lower Depth	Sample type	Headpace gas	Ooccluded gas	Gas isotopes	Lithology descriptions	TOC & Pyrolysis	SCI	Vitrinite reflectance	Extraction	Separation	Whole Oil GC	Saturate GC	Aromatic GC (FID)	Aromatic GC (FPD)	Saturate GC/MS	Aromatic GC/MS	Cl	S,Ni,V,Asph content	API	API of oil with B.P. > 210 deg C
34/7-21	NOR	92094-163	D6T 1	D6T 1	OH										X	X	X	X	X	X	X	X	X	X
34/7-21	NOR	92094-1	1390.00	1400.00	CUT	X	X		X															
34/7-21	NOR	93A70	1390.00	1400.00	CUT							X												
34/7-21	NOR	92094-2	1430.00	1440.00	CUT	X	X		X															
34/7-21	NOR	92094-2A	1430.00	1440.00	CUT					X														
34/7-21	NOR	92094-3	1470.00	1480.00	CUT	X	X		X															
34/7-21	NOR	92094-4	1510.00	1520.00	CUT	X	X		X															
34/7-21	NOR	92094-4A	1510.00	1520.00	CUT					X														
34/7-21	NOR	93A73	1510.00	1520.00	CUT							X												
34/7-21	NOR	92094-5	1550.00	1560.00	CUT	X	X		X															
34/7-21	NOR	92094-6	1590.00	1600.00	CUT	X	X		X															
34/7-21	NOR	93A75	1590.00	1600.00	CUT							X												
34/7-21	NOR	92094-7	1630.00	1640.00	CUT	X	X		X															
34/7-21	NOR	92094-8	1670.00	1680.00	CUT	X	X		X															
34/7-21	NOR	93A77	1670.00	1680.00	CUT							X												
34/7-21	NOR	92094-9	1710.00	1720.00	CUT	X	X		X															
34/7-21	NOR	92094-10	1750.00	1760.00	CUT	X	X		X															
34/7-21	NOR	92094-10A	1750.00	1760.00	CUT					X														
34/7-21	NOR	93A79	1750.00	1760.00	CUT							X												
34/7-21	NOR	92094-11	1780.00	1800.00	CUT	X	X		X															
34/7-21	NOR	92094-12	1820.00	1830.00	CUT	X	X		X															
34/7-21	NOR	92094-12A	1820.00	1830.00	CUT					X														
34/7-21	NOR	92094-13	1830.00	1840.00	CUT	X	X		X															
34/7-21	NOR	92094-13A	1830.00	1840.00	CUT					X		X												
34/7-21	NOR	92094-14	1840.00	1850.00	CUT	X	X	X	X															
34/7-21	NOR	92094-14A	1840.00	1850.00	CUT					X														
34/7-21	NOR	92094-18	1880.00	1890.00	CUT	X	X		X															
34/7-21	NOR	93C334	1890.10	1890.10	SWC							X												
34/7-21	NOR	93C335	1896.50	1896.50	SWC							X												
34/7-21	NOR	92094-19	1890.00	1900.00	CUT	X	X		X															
34/7-21	NOR	92094-20	1930.00	1940.00	CUT	X	X		X															
34/7-21	NOR	92094-20A	1930.00	1940.00	CUT					X														
34/7-21	NOR	93A86	1930.00	1940.00	CUT							X												
34/7-21	NOR	92094-21	1970.00	1980.00	CUT	X	X		X															
34/7-21	NOR	92094-22	2010.00	2020.00	CUT	X	X		X															
34/7-21	NOR	92094-22A	2010.00	2020.00	CUT					X														
34/7-21	NOR	93A88	2010.00	2020.00	CUT							X												
34/7-21	NOR	92094-23	2050.00	2060.00	CUT	X	X		X															
34/7-21	NOR	92094-24	2090.00	2100.00	CUT	X	X		X															
34/7-21	NOR	92094-24A	2090.00	2100.00	CUT					X														
34/7-21	NOR	93A90	2090.00	2100.00	CUT							X												
34/7-21	NOR	92094-25	2130.00	2140.00	CUT	X	X		X															
34/7-21	NOR	92094-26	2170.00	2180.00	CUT	X	X		X															
34/7-21	NOR	93A92	2170.00	2180.00	CUT							X												
34/7-21	NOR	92094-27	2210.00	2220.00	CUT	X	X		X															
34/7-21	NOR	92094-28	2250.00	2260.00	CUT	X	X		X															
34/7-21	NOR	92094-28A	2250.00	2260.00	CUT					X														
34/7-21	NOR	93A94	2250.00	2260.00	CUT							X												
34/7-21	NOR	92094-29	2280.00	2290.00	CUT	X	X		X															
34/7-21	NOR	92094-29A	2280.00	2290.00	CUT					X														
34/7-21	NOR	92094-30	2300.00	2310.00	CUT	X	X		X															
34/7-21	NOR	92094-30A	2300.00	2310.00	CUT					X														
34/7-21	NOR	92094-31	2320.00	2330.00	CUT	X	X		X															
34/7-21	NOR	92094-31A	2320.00	2330.00	CUT					X														
34/7-21	NOR	93A97	2320.00	2330.00	CUT							X												
34/7-21	NOR	92094-32	2340.00	2350.00	CUT	X	X		X															
34/7-21	NOR	92094-33	2360.00	2370.00	CUT	X	X		X															
34/7-21	NOR	92094-33A	2360.00	2370.00	CUT					X														
34/7-21	NOR	92094-34	2380.00	2390.00	CUT	X	X		X															
34/7-21	NOR	92094-35	2400.00	2410.00	CUT	X	X		X															
34/7-21	NOR	92094-35A	2400.00	2410.00	CUT					X			X	X		X	X	X	X	X	X			
34/7-21	NOR	93A101	2400.00	2410.00	CUT							X												
34/7-21	NOR	92094-36	2420.00	2430.00	CUT	X	X		X															
34/7-21	NOR	92094-37	2440.00	2450.00	CUT	X	X		X															
34/7-21	NOR	92094-37A	2440.00	2450.00	CUT					X														
34/7-21	NOR	92094-38	2450.00	2460.00	CUT	X	X		X															
34/7-21	NOR	92094-39	2480.00	2470.00	CUT	X	X		X															

ANALYTICAL PROGRAM - Table 1

Well	Nation	Sample name	Upper Depth	Lower Depth	Sample type	Headpace gas	Ocluded gas	Gas isotopes	Lithology descriptions	TOC & Pyrolysis	SCI	Vitrinite reflectance	Extraction	Separation	Whole Oil GC	Saturate GC	Aromatic GC (FID)	Aromatic GC (FPD)	Saturate GC/MS	Aromatic GC/MS	Cl	S,Ni,V,Asph content	API	API of oil with B.P. > 210 deg C
34/7-21	NOR	92094-39A	2480.00	2470.00	CUT					X														
34/7-21	NOR	92094-40	2470.00	2480.00	CUT	X	X		X															
34/7-21	NOR	92094-41	2480.00	2490.00	CUT	X	X		X															
34/7-21	NOR	92094-184	2498.50	2498.50	OH									X	X	X	X	X	X	X	X	X	X	X
34/7-21	NOR	92094-42	2490.00	2500.00	CUT			X																
34/7-21	NOR	92094-42	2490.00	2500.00	CUT	X	X		X															
34/7-21	NOR	92094-43	2500.00	2510.00	CUT	X	X		X															
34/7-21	NOR	92094-43	2500.00	2510.00	CUT			X																
34/7-21	NOR	92094-43A	2500.00	2510.00	CUT					X														
34/7-21	NOR	93A109	2500.00	2510.00	CUT							X												
34/7-21	NOR	92094-133	2516.30	2516.30	CCP								X	X										
34/7-21	NOR	92094-134	2518.70	2518.70	CCP								X	X		X	X	X	X	X	X			
34/7-21	NOR	92094-135	2521.70	2521.70	CCP								X	X										
34/7-21	NOR	92094-136	2530.40	2530.40	CCP								X	X										
34/7-21	NOR	92094-137	2534.60	2534.60	CCP								X	X										
34/7-21	NOR	92094-138	2537.45	2537.45	CCP								X	X		X	X	X	X	X	X			
34/7-21	NOR	92094-139	2538.00	2538.00	CCP								X	X										
34/7-21	NOR	92094-140	2541.20	2541.20	CCP								X	X		X	X	X	X	X	X			
34/7-21	NOR	92094-141	2544.72	2544.72	CCP								X	X										
34/7-21	NOR	92094-142	2547.90	2547.90	CCP					X														
34/7-21	NOR	93C337	2549.00	2549.00	CCP							X												
34/7-21	NOR	92094-144	2552.55	2552.55	CCP					X														
34/7-21	NOR	92094-145	2554.50	2554.50	CCP					X														
34/7-21	NOR	92094-146	2555.90	2555.90	CCP					X														
34/7-21	NOR	92094-147	2558.00	2558.00	CCP					X			X	X		X	X	X	X	X	X			
34/7-21	NOR	93G4	2558.00	2558.00	CCP						X													
34/7-21	NOR	92094-148	2560.00	2560.00	CCP					X														
34/7-21	NOR	92094-149	2561.77	2561.77	CCP					X														
34/7-21	NOR	92094-150	2563.18	2563.18	CCP					X														
34/7-21	NOR	93C338	2565.00	2565.00	CCP							X												
34/7-21	NOR	92094-152	2566.80	2566.80	CCP								X	X		X	X	X	X	X	X			
34/7-21	NOR	92094-153	2567.30	2567.30	CCP								X	X		X	X	X	X	X	X			
34/7-21	NOR	92094-154	2568.50	2568.50	CCP								X	X										
34/7-21	NOR	92094-155	2570.60	2570.60	CCP					X			X	X		X	X	X	X	X	X			
34/7-21	NOR	92094-156	2574.55	2574.55	CCP					X														
34/7-21	NOR	92094-157	2578.50	2578.50	CCP					X														
34/7-21	NOR	92094-158	2580.00	2580.00	CCP					X														
34/7-21	NOR	92094-159	2584.50	2584.50	CCP					X			X	X		X	X	X	X	X	X			
34/7-21	NOR	93G5	2584.50	2584.50	CCP						X													
34/7-21	NOR	93C339	2586.00	2586.00	CCP							X												
34/7-21	NOR	92094-161	2587.85	2587.85	CCP					X														
34/7-21	NOR	93C340	2591.00	2591.00	CCP							X												
34/7-21	NOR	92094-44	2594.00	2603.00	CUT	X	X	X	X															
34/7-21	NOR	92094-44A	2594.00	2603.00	CUT					X			X	X		X	X	X	X	X	X			
34/7-21	NOR	93G6	2606.50	2606.50	SWC							X												
34/7-21	NOR	92094-45	2603.00	2612.00	CUT	X	X		X															
34/7-21	NOR	92094-46	2612.00	2621.00	CUT	X	X		X															
34/7-21	NOR	92094-46A	2612.00	2621.00	CUT					X														
34/7-21	NOR	92094-47	2621.00	2630.00	CUT	X	X		X															
34/7-21	NOR	92094-47A	2621.00	2630.00	CUT					X														
34/7-21	NOR	92094-48	2630.00	2639.00	CUT	X	X		X															
34/7-21	NOR	92094-49	2639.00	2648.00	CUT	X	X		X															
34/7-21	NOR	92094-49A	2639.00	2648.00	CUT					X														
34/7-21	NOR	92094-50	2648.00	2657.00	CUT	X	X		X															
34/7-21	NOR	92094-50A	2648.00	2657.00	CUT					X			X	X		X	X	X	X	X	X			
34/7-21	NOR	92094-51	2657.00	2666.00	CUT	X	X		X															
34/7-21	NOR	92094-52	2666.00	2675.00	CUT	X	X		X															
34/7-21	NOR	92094-53	2675.00	2684.00	CUT	X	X		X															
34/7-21	NOR	92094-53A	2675.00	2684.00	CUT					X														
34/7-21	NOR	92094-54	2684.00	2693.00	CUT	X	X		X															
34/7-21	NOR	92094-54A	2684.00	2693.00	CUT					X														
34/7-21	NOR	93A120	2684.00	2693.00	CUT							X												
34/7-21	NOR	92094-55	2693.00	2702.00	CUT	X	X		X															
34/7-21	NOR	92094-55A	2693.00	2702.00	CUT					X			X	X		X	X	X	X	X	X			
34/7-21	NOR	92094-56	2720.00	2729.00	CUT	X	X	X	X															
34/7-21	NOR	92094-57	2747.00	2756.00	CUT	X	X		X															
34/7-21	NOR	92094-58	2774.00	2783.00	CUT	X	X		X															
34/7-21	NOR	92094-59	2801.00	2810.00	CUT	X	X		X															

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Well	Nation	Sample name	Upper Depth	Lower Depth	Sample type	Headspace gas	Occluded gas	Gas isotopes	Lithology descriptions	TOC & Pyrolysis	SCI	Vitrinite reflectance	Extraction	Separation	Whole Oil GC	Saturate GC	Aromatic GC (FID)	Aromatic GC (FPD)	Saturate GC/MS	Aromatic GC/MS	Cl	S,N,V Asph content	API	API of oil with B.P. > 210 deg C
34/7-21	NOR	92094-69A	2801.00	2810.00	CUT					X														
34/7-21	NOR	93A125	2801.00	2810.00	CUT							X												
34/7-21	NOR	92094-60	2828.00	2837.00	CUT	X	X		X															
34/7-21	NOR	92094-61	2855.00	2864.00	CUT	X	X		X															
34/7-21	NOR	92094-61A	2855.00	2864.00	CUT					X														
34/7-21	NOR	93A127	2855.00	2864.00	CUT							X												
34/7-21	NOR	92094-62	2882.00	2891.00	CUT	X	X		X															
34/7-21	NOR	92094-63	2909.00	2918.00	CUT	X	X		X															
34/7-21	NOR	92094-64	2936.00	2945.00	CUT	X	X	X	X															
34/7-21	NOR	92094-65	2962.00	2971.00	CUT	X	X		X															
34/7-21	NOR	92094-65A	2962.00	2971.00	CUT					X			X	X		X	X	X	X	X	X			
34/7-21	NOR	93A131	2962.00	2971.00	CUT							X												
34/7-21	NOR	92094-66	2989.00	2998.00	CUT	X	X		X															
34/7-21	NOR	92094-67	3005.00	3014.00	CUT	X	X		X															
34/7-21	NOR	93A133	3005.00	3014.00	CUT							X												
34/7-21A	NOR	92094-68	2190.00	2200.00	CUT	X	X		X															
34/7-21A	NOR	92094-69	2210.00	2220.00	CUT	X	X		X															
34/7-21A	NOR	92094-70	2230.00	2240.00	CUT	X	X		X															
34/7-21A	NOR	92094-71	2250.00	2260.00	CUT	X	X		X															
34/7-21A	NOR	92094-72	2270.00	2280.00	CUT	X	X		X															
34/7-21A	NOR	92094-73	2290.00	2300.00	CUT	X	X		X															
34/7-21A	NOR	92094-74	2310.00	2320.00	CUT	X	X		X															
34/7-21A	NOR	92094-74A	2310.00	2320.00	CUT					X														
34/7-21A	NOR	93A198	2311.00	2320.00	CUT							X												
34/7-21A	NOR	92094-75	2330.00	2340.00	CUT	X	X	X	X															
34/7-21A	NOR	92094-76	2350.00	2360.00	CUT	X	X		X															
34/7-21A	NOR	92094-76A	2350.00	2360.00	CUT					X														
34/7-21A	NOR	92094-77	2370.00	2380.00	CUT	X	X		X															
34/7-21A	NOR	92094-78	2390.00	2400.00	CUT	X	X		X															
34/7-21A	NOR	92094-78A	2390.00	2400.00	CUT					X														
34/7-21A	NOR	92094-79	2410.00	2420.00	CUT	X	X		X															
34/7-21A	NOR	92094-80	2430.00	2440.00	CUT	X	X		X															
34/7-21A	NOR	92094-80A	2430.00	2440.00	CUT					X														
34/7-21A	NOR	93A204	2431.00	2440.00	CUT							X												
34/7-21A	NOR	92094-81	2450.00	2460.00	CUT	X	X		X															
34/7-21A	NOR	92094-82	2470.00	2480.00	CUT	X	X		X															
34/7-21A	NOR	92094-83	2490.00	2500.00	CUT	X	X		X															
34/7-21A	NOR	92094-83A	2490.00	2500.00	CUT					X														
34/7-21A	NOR	92094-84	2510.00	2520.00	CUT	X	X		X															
34/7-21A	NOR	92094-84A	2510.00	2520.00	CUT					X														
34/7-21A	NOR	93A208	2511.00	2520.00	CUT							X												
34/7-21A	NOR	92094-85	2530.00	2540.00	CUT	X	X		X															
34/7-21A	NOR	92094-86	2550.00	2560.00	CUT	X	X	X	X															
34/7-21A	NOR	92094-86A	2550.00	2560.00	CUT					X														
34/7-21A	NOR	92094-87	2570.00	2580.00	CUT	X	X		X															
34/7-21A	NOR	92094-88	2590.00	2600.00	CUT	X	X		X															
34/7-21A	NOR	92094-89	2610.00	2620.00	CUT	X	X		X															
34/7-21A	NOR	92094-89A	2610.00	2620.00	CUT					X														
34/7-21A	NOR	93A212	2611.00	2620.00	CUT							X												
34/7-21A	NOR	92094-90	2630.00	2640.00	CUT	X	X		X															
34/7-21A	NOR	92094-91	2650.00	2660.00	CUT	X	X		X															
34/7-21A	NOR	92094-91A	2650.00	2660.00	CUT					X														
34/7-21A	NOR	92094-92	2670.00	2680.00	CUT	X	X		X															
34/7-21A	NOR	92094-92A	2670.00	2680.00	CUT					X														
34/7-21A	NOR	92094-93	2690.00	2700.00	CUT	X	X		X															
34/7-21A	NOR	92094-94	2700.00	2709.00	CUT	X	X		X															
34/7-21A	NOR	92094-95	2709.00	2718.00	CUT	X	X		X															
34/7-21A	NOR	92094-96	2718.00	2727.00	CUT	X	X		X															
34/7-21A	NOR	92094-97	2727.00	2736.00	CUT	X	X		X															
34/7-21A	NOR	92094-97A	2727.00	2736.00	CUT					X														
34/7-21A	NOR	93A220	2727.00	2736.00	CUT							X												
34/7-21A	NOR	92094-98	2736.00	2745.00	CUT	X	X		X															
34/7-21A	NOR	92094-99	2745.00	2754.00	CUT	X	X		X															
34/7-21A	NOR	92094-100	2754.00	2763.00	CUT	X	X		X															
34/7-21A	NOR	92094-100A	2754.00	2763.00	CUT					X														
34/7-21A	NOR	92094-101	2763.00	2772.00	CUT	X	X		X															
34/7-21A	NOR	92094-102	2772.00	2781.00	CUT	X	X		X															
34/7-21A	NOR	92094-103	2781.00	2790.00	CUT	X	X		X															

ANALYTICAL PROGRAM - Table 1

Well	Nation	Sample name	Upper Depth	Lower Depth	Sample type	Headspace gas	Occluded gas	Gas isotopes	Lithology descriptions	TOC & Pyrolysis	SCI	Vitrinite reflectance	Extraction	Separation	Whole Oil GC	Saturate GC	Aromatic GC (FID)	Aromatic GC (FPD)	Saturate GC/MS	Aromatic GC/MS	Cl	S,Ni,V,Asph content	API	API of oil with B.P. > 210 deg C
34/7-21A	NOR	92094-103A	2781.00	2790.00	CUT					X														
34/7-21A	NOR	92094-104	2790.00	2799.00	CUT	X	X		X															
34/7-21A	NOR	92094-105	2799.00	2808.00	CUT	X	X		X															
34/7-21A	NOR	92094-106	2808.00	2817.00	CUT	X	X		X															
34/7-21A	NOR	92094-107	2817.00	2826.00	CUT	X	X		X															
34/7-21A	NOR	92094-108	2826.00	2835.00	CUT	X	X		X															
34/7-21A	NOR	92094-109	2835.00	2844.00	CUT	X	X	X	X															
34/7-21A	NOR	92094-109A	2835.00	2844.00	CUT					X														
34/7-21A	NOR	93A232	2835.00	2844.00	CUT							X												
34/7-21A	NOR	92094-185	2848.50	2848.50	CCP					X														
34/7-21A	NOR	92094-166	2849.60	2849.60	CCP					X			X	X		X	X	X	X	X	X			
34/7-21A	NOR	93E59	2849.60	2849.60	CCP							X												
34/7-21A	NOR	92094-167	2853.40	2853.40	CCP					X														
34/7-21A	NOR	92094-168	2855.50	2855.50	CCP					X														
34/7-21A	NOR	92094-169	2857.30	2857.30	CCP					X				X	X	X	X	X	X	X	X			
34/7-21A	NOR	92094-188	2873.50	2873.50	Oil									X		X	X	X	X	X	X	X	X	X
34/7-21A	NOR	92094-170	2874.35	2874.35	CCP								X	X	X	X	X	X	X	X	X			
34/7-21A	NOR	92094-171	2876.50	2876.50	CCP								X	X										
34/7-21A	NOR	92094-172	2877.50	2877.50	CCP								X	X										
34/7-21A	NOR	92094-173	2878.80	2878.80	CCP								X	X										
34/7-21A	NOR	92094-174	2880.60	2880.60	CCP								X	X		X	X	X	X	X	X			
34/7-21A	NOR	92094-175	2882.80	2882.80	CCP					X			X	X		X	X	X	X	X	X			
34/7-21A	NOR	93E60	2882.80	2882.80	CCP						X	X												
34/7-21A	NOR	92094-176	2890.50	2890.50	CCP								X	X										
34/7-21A	NOR	92094-177	2893.50	2893.50	CCP								X	X		X	X	X	X	X	X			
34/7-21A	NOR	92094-178	2895.65	2895.65	CCP								X	X										
34/7-21A	NOR	92094-179	2899.80	2899.80	CCP					X														
34/7-21A	NOR	92094-180	2901.40	2901.40	CCP					X														
34/7-21A	NOR	93E61	2901.40	2901.40	CCP							X												
34/7-21A	NOR	92094-181	2904.80	2904.80	CCP								X	X		X	X	X	X	X	X			
34/7-21A	NOR	92094-182	2905.70	2905.70	CCP					X			X	X		X	X	X	X	X	X			
34/7-21A	NOR	966	2905.70	2905.70	CCP						X													
34/7-21A	NOR	92094-183	2908.30	2908.30	CCP								X	X										
34/7-21A	NOR	92094-110	2910.00	2919.00	CUT	X	X	X	X															
34/7-21A	NOR	92094-111	2919.00	2928.00	CUT	X	X		X															
34/7-21A	NOR	92094-111A	2919.00	2928.00	CUT					X														
34/7-21A	NOR	92094-112	2928.00	2937.00	CUT	X	X	X	X															
34/7-21A	NOR	92094-184	2943.50	2943.50	CCP					X														
34/7-21A	NOR	93E62	2943.50	2943.50	CCP							X												
34/7-21A	NOR	92094-185	2945.70	2945.70	CCP					X														
34/7-21A	NOR	92094-113A	2937.00	2946.00	CUT					X														
34/7-21A	NOR	92094-186	2947.50	2947.50	CCP					X			X	X		X	X	X	X	X	X			
34/7-21A	NOR	92094-187	2949.50	2949.50	CCP					X														
34/7-21A	NOR	93E63	2949.50	2949.50	CCP							X												
34/7-21A	NOR	92094-113	2945.70	2954.70	CUT	X	X		X															
34/7-21A	NOR	92094-114	2946.00	2955.00	CUT	X	X		X															
34/7-21A	NOR	92094-114A	2946.00	2955.00	CUT					X														
34/7-21A	NOR	93A237	2946.00	2955.00	CUT							X												
34/7-21A	NOR	92094-115	2955.00	2964.00	CUT	X	X		X															
34/7-21A	NOR	92094-115A	2964.00	2973.00	CUT					X														
34/7-21A	NOR	92094-116A	2964.00	2973.00	CUT							X	X		X	X	X	X	X	X	X			
34/7-21A	NOR	92094-116	2973.00	2982.00	CUT	X	X		X															
34/7-21A	NOR	92094-117	2973.00	2982.00	CUT	X	X		X															
34/7-21A	NOR	92094-118	2991.00	3000.00	CUT	X	X		X															
34/7-21A	NOR	92094-119	3009.00	3018.00	CUT	X	X		X															
34/7-21A	NOR	92094-119A	3009.00	3018.00	CUT					X														
34/7-21A	NOR	93A242	3009.00	3018.00	CUT							X												
34/7-21A	NOR	92094-189	3035.50	3035.50	Oil									X	X	X	X	X	X	X	X	X	X	X
34/7-21A	NOR	92094-120	3027.00	3036.00	CUT	X	X		X															
34/7-21A	NOR	92094-121	3045.00	3054.00	CUT	X	X		X															
34/7-21A	NOR	92094-122	3060.00	3069.00	CUT	X	X		X															
34/7-21A	NOR	92094-123	3078.00	3087.00	CUT	X	X		X															
34/7-21A	NOR	92094-123A	3078.00	3087.00	CUT					X														
34/7-21A	NOR	92094-124	3096.00	3105.00	CUT	X	X		X															
34/7-21A	NOR	92094-125	3114.00	3123.00	CUT	X	X		X															
34/7-21A	NOR	92094-125A	3114.00	3123.00	CUT					X			X	X		X	X	X	X	X	X			

ANALYTICAL PROGRAM - Table 1

Well	Nation	Sample name	Upper Depth	Lower Depth	Sample type	Headspace gas	Occluded gas	Gas isotopes	Lithology descriptions	TOC & Pyrolysis	SCI	Vitrihite reflectance	Extraction	Separation	Whole Oil GC	Saturate GC	Aromatic GC (FID)	Aromatic GC (FPD)	Saturate GC/MS	Aromatic GC/MS	Cl	S,Ni,V,Asph content	API	API of oil with B.P. > 210 deg C
34/7-21A	NOR	938248	3114.00	3123.00	CUT							X												
34/7-21A	NOR	92094-126	3132.00	3141.00	CUT	X	X		X															
34/7-21A	NOR	92094-127	3150.00	3159.00	CUT	X	X		X															
34/7-21A	NOR	92094-127A	3150.00	3159.00	CUT					X														
34/7-21A	NOR	92094-128	3168.00	3177.00	CUT	X	X		X															
34/7-21A	NOR	92094-129	3186.00	3195.00	CUT	X	X		X															
34/7-21A	NOR	92094-129A	3186.00	3195.00	CUT					X														

EXPERIMENTAL PROCEDURES

ANALYSIS	INSTRUMENT	METHOD	TEMPERATURE PROGRAM	COLUMNS
TOC	Leco CS 125	OLS 1 *		
Rock Eval Pyrolysis	Rock Eval II	OLS 5 *	Cycle 1	
Headspace gas	Perkin Elmer Sigma 3	NPD method	Isothermal 110C	1/8" SS packed
Occluded gas	Perkin Elmer Sigma 3	NPD method	Isothermal 110C	1/8" SS packed
Gas Isotope analysis	sub contracted and run at Saga's request by IFE			
Iatroscan fractionation	Iatroscan MKIII	NPD method		
Quantitative Extraction	Soxhtec Tecator 1043	NPD method	Boil 1 hr, rinse 2hrs (DCM:MeOH, 7:1)	
Asphaltene precipitation		NPD method		
Hydrocarbon separation	Kontron HPLC	NPD method		Lobar Lichroprep
Whole Oil GC	AMS 92	NPD method	-30 - 300C at 5C/min, 300C 20 min.	CP SIL-5
Alkane GC	HP5890a (on column)	NPD method	80C 3min, 4C/min to 300C, 300C 12 min.	CP SIL-5
Aromatic GC FID	AMS 92	NPD method	80C - 103C (1C/min), 103C-140C (3C/min)	DB-5
Aromatic GC FPD	AMS 92	NPD method	80C - 180C (6C/min), 180C-300C (25C/min)	DB-5
Alkane GC/MS	HP MSD	Saga method	180C 1min, 1.7C/min to 310C, 310C 10 min.	DB-5
Aromatic GC/MS	HP MSD	Saga method	180C 1min, 1.7C/min to 310C, 310C 10 min.	DB-5
API gravity		WC/007		
S, Ni & V content	Baird ICP	WC/010		
Isotope analysis	sub contracted and run at Saga's request by IFE			

* - TOC and Rock Eval methods are comparable with NPD method. However we do not have Black Ven Marl. Consequently, the Rock Eval was calibrated with a standard related to Delsi IFP standard. In house check standards are run at greater frequency than that Prescribed by NPD guidelines. Furthermore, both these methods are NAMAS accredited, please refer to the following two pages for further details regarding methods for which Simon laboratories are accredited and the value of NAMAS accreditation.

NAMAS ACCREDITATION

The National Measurement Accreditation Service, NAMAS, is the official UK national authority competent in the field of laboratory accreditation.

NAMAS conduct a surveillance visit six months after accreditation and annually thereafter. Four years after accreditation, NAMAS undertakes a full re-assessment NAMAS can make unannounced visits.

What's so special about a NAMAS report or certificate?

- It's your assurance that the work has been carried out to the highest standard.
- The laboratory issuing the certificate has been stringently assessed by independent experts.
- You are assured that the agreed or specific methods and procedures have been followed.
- Measurements are traceable to national and international standards. NAMAS (which stands for the National and Measurement Accreditation Service) is a service of the National Physical Laboratory. NPL hold many of the UK's primary standards.

What does NAMAS assess?

All technical aspects of the laboratory's practice. NAMAS specifies criteria that laboratories must meet. These criteria deal with more than just the quality system and cover:

- | | |
|----------------------------|---------------------------------|
| - Organisation | - Quality audits and reviews |
| - Equipment | - Methods and procedures |
| - Handling of samples | - Complaints |
| - Quality system | - Staff |
| - Measurement traceability | - Environment |
| - Records | - Subcontracting and purchasing |

NAMAS is part of the International Laboratory Accreditation Conference. Much of their accreditation criteria have been included in the European EN 4500 Series standards.

NAMAS is recognised and have mutual accreditation agreements with the following national bodies.

Australia (NATA)	Germany (DKD)	France (BNM, RNE)
Hong Kong (KOKLAS)	Italy (SIT)	Netherlands (NKO)
New Zealand (TELARC)	Norway (DNVQA)	Sweden (SMO)
Switzerland (SMO)		

Simon Laboratories are NAMAS accredited for all the methods listed overleaf.

NAMAS ACCREDITATION

Simon Laboratories is NAMAS accredited for the following methods :-

OLS/001	Determination of the Carbon Content of geological samples
OLS/002	Determination of Carbonate by the LECO method
OLS/003	Geochemistry sample preparation techniques
OLS/005	Rock Eval pyrolysis for screening geochemistry
OLS/008	Quantitative DCM extraction by Soxhtec
OLS/009	Quantitative DCM extraction by Soxhlet
OLS/010	Column chromatography
OLS/011	Headspace gas analysis C1 - C4
OLS/012	Headspace gas analysis C1 - C6+
OLS/013	Occluded gas analysis C1 - C4
OLS/014	Occluded gas analysis C1 - C6+
OLS/015	Gasoline (C4 - C7) analysis
OLS/016	C15+ saturate fraction gas chromatography by flame ionisation detection
OLS/017	Aromatic fraction gas chromatography by flame ionisation detection
OLS/019	Column chromatography for the fractionation of hydrocarbon mixtures
OLS/021	Whole oil gas chromatography
OLS/022	Pyrolysis - Gas chromatography
OLS/023	Fractionation by Iatroscan
OLS/026	Topping of oils
OLS/027	Gas chromatography - Mass spectrometry of organic biomarkers
OLS/028	2D Ultra Violet fluorescence spectrometry
OLS/029	3D Ultra Violet fluorescence spectrometry
OLS/030	Determination of asphaltene content by precipitation
WC/002	Determination of water in lubricating oil
WC/003	Determination of fuel in lubricating oil
WC/004	Determination of the dielectric of lubricating oil
WC/005	Determination of viscosity of lubricating oil
WC/007	Determination of API gravity
WC/008	Total base number
WC/009	Cold filter plugging point
WC/010	Wear metals in lubricants by ICP
WC/011	Determination of API gravity of small samples by Archimedes Bridges

HEADSPACE GAS DATA

Table 3

Well	Nation	Sample name	Upper Depth	Lower Depth	Sample type	C1 uL/Kg	C2 uL/Kg	C3 uL/Kg	IC4 uL/Kg	nC4 uL/Kg	C5+ uL/Kg	SUM C1-C4 uL/Kg	SUM C2-C4 uL/Kg	Wetness %	IC4 nC4
34/7-21	NOR	92094-1	1390	1400	Cuttings	4615	11	54	0	0	7	4680	65	1.39	
34/7-21	NOR	92094-2	1430	1440	Cuttings	2721	2	1	0	0	1	2724	3	0.11	
34/7-21	NOR	92094-3	1470	1480	Cuttings	5697	19	8	1	0	2	5727	29	0.51	4.50
34/7-21	NOR	92094-4	1510	1520	Cuttings	3389	21	5	1	0	0	3416	26	0.78	
34/7-21	NOR	92094-5	1550	1560	Cuttings	2679	29	7	2	0	4	2717	38	1.40	
34/7-21	NOR	92094-6	1590	1600	Cuttings	4694	77	7	6	2	4	4785	92	1.91	3.53
34/7-21	NOR	92094-7	1630	1640	Cuttings	4668	146	17	15	3	10	4849	180	3.72	6.00
34/7-21	NOR	92094-8	1670	1680	Cuttings	164	4	1	1	0	2	169	5	2.99	
34/7-21	NOR	92094-9	1710	1720	Cuttings	1988	38	3	5	1	22	2035	47	2.30	8.00
34/7-21	NOR	92094-10	1750	1760	Cuttings	25774	830	213	130	0	664	26948	1174	4.36	
34/7-21	NOR	92094-11	1790	1800	Cuttings	395	11	1	1	0	4	409	14	3.45	
34/7-21	NOR	92094-12	1820	1830	Cuttings	3653	226	67	52	5	196	4002	349	8.72	10.82
34/7-21	NOR	92094-13	1830	1840	Cuttings	6027	365	127	104	17	480	6641	614	9.24	6.10
34/7-21	NOR	92094-14	1840	1850	Cuttings	8647	614	221	174	22	223	9678	1032	10.66	7.86
34/7-21	NOR	92094-15	1850	1860	Cuttings	EMPTY CAN									
34/7-21	NOR	92094-16	1860	1870	Cuttings	EMPTY CAN									
34/7-21	NOR	92094-17	1870	1880	Cuttings	EMPTY CAN									
34/7-21	NOR	92094-18	1880	1890	Cuttings	104	5	2	2	0	16	113	9	7.79	6.67
34/7-21	NOR	92094-19	1890	1900	Cuttings	1355	65	26	14	0	17	1459	104	7.12	
34/7-21	NOR	92094-20	1930	1940	Cuttings	29409	1417	608	248	71	1594	31754	2344	7.38	3.50
34/7-21	NOR	92094-21	1970	1980	Cuttings	12731	733	249	56	23	7	13791	1060	7.69	2.43
34/7-21	NOR	92094-22	2010	2020	Cuttings	11627	1074	336	47	15	14	13098	1471	11.23	3.17
34/7-21	NOR	92094-23	2050	2060	Cuttings	12659	1592	515	46	25	11	14838	2179	14.68	1.81
34/7-21	NOR	92094-24	2090	2100	Cuttings	47533	8726	2697	253	144	163	59353	11820	19.91	1.76
34/7-21	NOR	92094-25	2130	2140	Cuttings	20881	2288	1244	100	96	145	24610	3729	15.15	1.04
34/7-21	NOR	92094-26	2170	2180	Cuttings	7408	848	496	41	47	38	8840	1432	16.20	0.86
34/7-21	NOR	92094-27	2210	2220	Cuttings	9407	1904	1418	157	243	55	13129	3722	28.35	0.65

HEADSPACE GAS DATA

Table 3

Well	Nation	Sample name	Upper Depth	Lower Depth	Sample type	C1 uL/Kg	C2 uL/Kg	C3 uL/Kg	iC4 uL/Kg	nC4 uL/Kg	C5+ uL/Kg	SUM C1-C4 uL/Kg	SUM C2-C4 uL/Kg	Wetness %	iC4 nC4
34/7-21	NOR	92094-28	2250	2260	Cuttings	9295	1124	1028	169	356	301	11972	2677	22.36	0.48
34/7-21	NOR	92094-29	2280	2290	Cuttings	14648	4706	6338	1506	3082	4192	30279	15631	51.62	0.49
34/7-21	NOR	92094-30	2300	2310	Cuttings	12131	6032	8838	2376	4881	7123	34258	22127	64.59	0.49
34/7-21	NOR	92094-31	2320	2330	Cuttings	17555	10468	15261	4131	8523	10925	55937	38382	68.62	0.48
34/7-21	NOR	92094-32	2340	2350	Cuttings	18621	8363	10605	2654	5232	6816	45475	26854	59.05	0.51
34/7-21	NOR	92094-33	2360	2370	Cuttings	5961	4407	7422	1864	4066	5639	23721	17760	74.87	0.46
34/7-21	NOR	92094-34	2380	2390	Cuttings	6085	2737	4423	1282	2677	3849	17204	11120	64.63	0.48
34/7-21	NOR	92094-35	2400	2410	Cuttings	14857	7426	9395	2134	4481	6017	38293	23436	61.20	0.48
34/7-21	NOR	92094-36	2420	2430	Cuttings	10940	3717	3832	840	1654	2111	20984	10044	47.87	0.51
34/7-21	NOR	92094-37	2440	2450	Cuttings	12363	4511	3962	630	1308	1142	22773	10410	45.71	0.48
34/7-21	NOR	92094-38	2450	2460	Cuttings	14196	5849	5285	821	1712	1606	27863	13668	49.05	0.48
34/7-21	NOR	92094-39	2460	2470	Cuttings	8053	3537	2964	388	819	671	15761	7708	48.90	0.47
34/7-21	NOR	92094-40	2470	2480	Cuttings	7686	3324	2980	409	823	567	15222	7536	49.51	0.50
34/7-21	NOR	92094-41	2480	2490	Cuttings	9227	4191	3695	528	1102	796	18742	9516	50.77	0.48
34/7-21	NOR	92094-42	2490	2500	Cuttings	10540	5088	4205	479	1095	724	21406	10867	50.76	0.44
34/7-21	NOR	92094-43	2500	2510	Cuttings	21329	23341	35946	8072	17232	19516	105919	84590	79.86	0.47
34/7-21	NOR	92094-44	2594	2603	Cuttings	20887	8957	7387	1049	2436	2576	40716	19829	48.70	0.43
34/7-21	NOR	92094-45	2603	2612	Cuttings	13211	6429	4687	553	1289	2055	26168	12958	49.52	0.43
34/7-21	NOR	92094-46	2612	2621	Cuttings	44863	21843	13962	1282	2735	1393	84685	39822	47.02	0.47
34/7-21	NOR	92094-47	2621	2630	Cuttings	24753	10562	6977	852	1662	1041	44806	20053	44.76	0.51
34/7-21	NOR	92094-48	2630	2639	Cuttings	30277	10038	4577	362	705	330	45959	15682	34.12	0.51
34/7-21	NOR	92094-49	2639	2648	Cuttings	23216	9688	5309	518	900	293	39631	16415	41.42	0.58
34/7-21	NOR	92094-50	2648	2657	Cuttings	39940	16234	8153	579	1115	421	66021	26081	39.50	0.52
34/7-21	NOR	92094-51	2657	2666	Cuttings	51880	16508	7341	523	924	350	77176	25295	32.78	0.57
34/7-21	NOR	92094-52	2666	2675	Cuttings	37724	12276	5631	396	685	179	56711	18987	33.48	0.58
34/7-21	NOR	92094-53	2675	2684	Cuttings	59389	21555	10900	937	1732	715	94513	35124	37.16	0.54
34/7-21	NOR	92094-54	2684	2693	Cuttings	41465	14061	6987	579	1144	665	64236	22771	35.45	0.51

HEADSPACE GAS DATA

Table 3

Well	Nation	Sample name	Upper Depth	Lower Depth	Sample type	C1 uL/Kg	C2 uL/Kg	C3 uL/Kg	iC4 uL/Kg	nC4 uL/Kg	C5+ uL/Kg	SUM C1-C4 uL/Kg	SUM C2-C4 uL/Kg	Wetness %	iC4 nC4
34/7-21	NOR	92094-55	2693	2702	Cuttings	71329	18558	8299	687	1423	1059	100296	28967	28.88	0.48
34/7-21	NOR	92094-56	2720	2729	Cuttings	37181	12329	5565	436	890	657	56401	19221	34.08	0.49
34/7-21	NOR	92094-57	2747	2756	Cuttings	13445	3633	1894	172	386	547	19529	6084	31.15	0.45
34/7-21	NOR	92094-58	2774	2783	Cuttings	30570	9739	4600	387	813	670	46109	15539	33.70	0.48
34/7-21	NOR	92094-59	2801	2810	Cuttings	68533	15947	6441	527	976	473	92423	23891	25.85	0.54
34/7-21	NOR	92094-60	2828	2837	Cuttings	57579	21659	9432	749	1358	577	90777	33198	36.57	0.55
34/7-21	NOR	92094-61	2855	2864	Cuttings	108235	20770	7342	609	957	435	137913	29677	21.52	0.64
34/7-21	NOR	92094-62	2882	2891	Cuttings	37356	11079	3909	308	503	344	53156	15800	29.72	0.61
34/7-21	NOR	92094-63	2909	2918	Cuttings	4492	1535	971	105	220	308	7323	2830	38.65	0.48
34/7-21	NOR	92094-64	2936	2945	Cuttings	19831	7169	3239	309	469	574	31017	11186	36.06	0.66
34/7-21	NOR	92094-65	2962	2971	Cuttings	42349	15993	6927	556	916	480	66742	24393	36.55	0.61
34/7-21	NOR	92094-66	2989	2998	Cuttings	24029	6922	2940	230	384	219	34504	10476	30.36	0.60
34/7-21	NOR	92094-67	3005	3014	Cuttings	22970	4802	1885	148	236	270	30042	7072	23.54	0.63

Well	Nation	Sample name	Upper Depth	Lower Depth	Sample type	C1 uL/Kg	C2 uL/Kg	C3 uL/Kg	IC4 uL/Kg	nC4 uL/Kg	C5+ uL/Kg	SUM C1-C4	SUM C2-C4	Wetness %	IC4 nC4
34/7-21	NOR	92094-1	1390	1400	Cuttings	15	0	0	0	0	49	15	0		
34/7-21	NOR	92094-2	1430	1440	Cuttings	38	0	8	0	19	3629	65	26	40.43	
34/7-21	NOR	92094-3	1470	1480	Cuttings	24	0	0	0	0	40	24	0		
34/7-21	NOR	92094-4	1510	1520	Cuttings	13	0	1	1	2	69	17	4	22.22	0.50
34/7-21	NOR	92094-5	1550	1560	Cuttings	41	6	4	1	2	24	55	14	25.49	0.50
34/7-21	NOR	92094-6	1590	1600	Cuttings	32	4	3	0	1	26	40	8	21.05	0.33
34/7-21	NOR	92094-7	1630	1640	Cuttings	29	2	3	9	3	44	47	17	37.25	2.71
34/7-21	NOR	92094-8	1670	1680	Cuttings	42	7	5	10	6	55	70	28	40.13	1.69
34/7-21	NOR	92094-9	1710	1720	Cuttings	27	2	2	1	1	104	32	5	16.47	1.00
34/7-21	NOR	92094-10	1750	1760	Cuttings	113	19	7	3	5	193	146	33	22.73	0.57
34/7-21	NOR	92094-11	1790	1800	Cuttings	35	6	4	2	2	74	48	13	27.43	1.00
34/7-21	NOR	92094-12	1820	1830	Cuttings	6	0	0	0	0	2	6	0		
34/7-21	NOR	92094-13	1830	1840	Cuttings	36	3	3	3	2	78	47	12	24.39	2.25
34/7-21	NOR	92094-14	1840	1850	Cuttings	86	9	7	4	3	54	108	22	20.80	1.14
34/7-21	NOR	92094-15	1850	1860	Cuttings	EMPTY CAN									
34/7-21	NOR	92094-16	1860	1870	Cuttings	EMPTY CAN									
34/7-21	NOR	92094-17	1870	1880	Cuttings	EMPTY CAN									
34/7-21	NOR	92094-18	1880	1890	Cuttings	121	13	10	13	11	73	169	48	28.26	1.17
34/7-21	NOR	92094-19	1890	1900	Cuttings	73	8	5	6	5	22	97	24	24.68	1.27
34/7-21	NOR	92094-20	1930	1940	Cuttings	99	9	5	3	5	27	121	21	17.65	0.64
34/7-21	NOR	92094-21	1970	1980	Cuttings	253	37	34	13	34	103	371	118	31.87	0.39
34/7-21	NOR	92094-22	2010	2020	Cuttings	106	10	10	8	9	47	144	38	26.15	0.91
34/7-21	NOR	92094-23	2050	2060	Cuttings	33	6	30	12	13	48	94	60	64.41	0.94
34/7-21	NOR	92094-24	2090	2100	Cuttings	45	6	26	11	12	52	100	55	55.36	0.96

Well	Nation	Sample Name	Upper Depth	Lower Depth	Sample type	C1 uL/Kg	C2 uL/Kg	C3 uL/Kg	IC4 uL/Kg	nC4 uL/Kg	C5+ uL/Kg	SUM C1-C4	SUM C2-C4	Wetness %	IC4 nC4
34/7-21	NOR	92094-25	2130	2140	Cuttings	39	5	24	10	19	46	98	58	59.75	0.53
34/7-21	NOR	92094-26	2170	2180	Cuttings	31	0	7	4	9	28	50	20	38.79	0.43
34/7-21	NOR	92094-27	2210	2220	Cuttings	71	12	15	7	32	158	137	66	47.92	0.21
34/7-21	NOR	92094-28	2250	2260	Cuttings	48	9	42	23	79	88	201	153	75.98	0.29
34/7-21	NOR	92094-29	2280	2290	Cuttings	88	10	87	66	319	3468	571	482	84.54	0.21
34/7-21	NOR	92094-30	2300	2310	Cuttings	106	9	34	52	322	6717	523	417	79.73	0.16
34/7-21	NOR	92094-31	2320	2330	Cuttings	63	16	243	216	963	9074	1501	1438	95.83	0.22
34/7-21	NOR	92094-32	2340	2350	Cuttings	30	10	89	69	286	2031	484	454	93.80	0.24
34/7-21	NOR	92094-33	2360	2370	Cuttings	109	50	518	331	1428	8634	2435	2326	95.52	0.23
34/7-21	NOR	92094-34	2380	2390	Cuttings	94	173	1215	566	2118	12558	4166	4072	97.75	0.27
34/7-21	NOR	92094-35	2400	2410	Cuttings	65	137	1059	493	1810	10532	3564	3500	98.19	0.27
34/7-21	NOR	92094-36	2420	2430	Cuttings	95	91	568	206	835	5043	1797	1702	94.70	0.25
34/7-21	NOR	92094-37	2440	2450	Cuttings	122	203	1025	238	1013	2032	2601	2478	95.29	0.23
34/7-21	NOR	92094-38	2450	2460	Cuttings	167	130	913	248	1068	2857	2527	2360	93.37	0.23
34/7-21	NOR	92094-39	2460	2470	Cuttings	109	116	739	170	765	1373	1899	1790	94.25	0.22
34/7-21	NOR	92094-40	2470	2480	Cuttings	73	69	512	124	587	1113	1365	1292	94.62	0.21
34/7-21	NOR	92094-41	2480	2490	Cuttings	66	77	557	123	578	857	1400	1334	95.30	0.21
34/7-21	NOR	92094-42	2490	2500	Cuttings	82	113	719	153	708	935	1776	1694	95.38	0.22
34/7-21	NOR	92094-43	2500	2510	Cuttings	97	192	2084	1099	4243	20240	7716	7619	98.74	0.26
34/7-21	NOR	92094-44	2594	2603	Cuttings	214	549	2782	749	2792	7859	7086	6872	96.98	0.27
34/7-21	NOR	92094-45	2603	2612	Cuttings	167	1161	8973	847	3147	3549	14295	14129	98.83	0.27
34/7-21	NOR	92094-46	2612	2621	Cuttings	281	2373	7609	1256	4204	3275	15723	15442	98.21	0.30
34/7-21	NOR	92094-47	2621	2630	Cuttings	191	921	3637	703	2429	1835	7882	7690	97.57	0.29
34/7-21	NOR	92094-48	2630	2639	Cuttings	330	2965	6233	859	2582	1684	12969	12639	97.46	0.33

Table 4

Well	Nation	Sample name	Upper Depth	Lower Depth	Sample type	C1 uL/Kg	C2 uL/Kg	C3 uL/Kg	iC4 uL/Kg	nC4 uL/Kg	C5+ uL/Kg	SUM C1-C4	SUM C2-C4	Wetness %	iC4 nC4
34/7-21	NOR	92094-49	2639	2648	Cuttings	156	1549	3642	407	1284	708	7039	6883	97.79	0.32
34/7-21	NOR	92094-50	2648	2657	Cuttings	134	1384	3070	327	927	470	5841	5708	97.71	0.35
34/7-21	NOR	92094-51	2657	2666	Cuttings	332	3457	6134	585	1808	666	12316	11984	97.30	0.32
34/7-21	NOR	92094-52	2666	2675	Cuttings	556	3252	4792	406	1316	525	10321	9766	94.62	0.31
34/7-21	NOR	92094-53	2675	2684	Cuttings	220	2463	5189	607	1982	1170	10461	10240	97.89	0.31
34/7-21	NOR	92094-54	2684	2693	Cuttings	345	2136	4052	456	1744	1171	8733	8388	96.05	0.26
34/7-21	NOR	92094-55	2693	2702	Cuttings	574	2959	5583	690	2238	2021	12045	11471	95.24	0.31
34/7-21	NOR	92094-56	2720	2729	Cuttings	277	1837	3393	379	1118	1371	7003	6726	96.04	0.34
34/7-21	NOR	92094-57	2747	2756	Cuttings	103	195	924	148	462	690	1832	1729	94.36	0.32
34/7-21	NOR	92094-58	2774	2783	Cuttings	126	820	1903	185	659	285	3693	3568	96.60	0.28
34/7-21	NOR	92094-59	2801	2810	Cuttings	1346	6304	6041	572	1552	882	15816	14469	91.49	0.37
34/7-21	NOR	92094-60	2828	2837	Cuttings	274	3943	6272	676	2016	1410	13182	12909	97.92	0.34
34/7-21	NOR	92094-61	2855	2864	Cuttings	5866	13608	9896	954	2343	1075	32667	26801	82.04	0.41
34/7-21	NOR	92094-62	2882	2891	Cuttings	301	952	1671	192	583	448	3698	3397	91.87	0.33
34/7-21	NOR	92094-63	2909	2918	Cuttings	103	33	74	20	76	189	305	202	66.28	0.26
34/7-21	NOR	92094-64	2936	2945	Cuttings	95	43	181	31	115	231	465	370	79.47	0.27
34/7-21	NOR	92094-65	2962	2971	Cuttings	213	1297	2805	406	1126	941	5846	5633	96.35	0.36
34/7-21	NOR	92094-66	2989	2998	Cuttings	198	845	1596	172	514	373	3324	3126	94.05	0.33
34/7-21	NOR	92094-67	3005	3014	Cuttings	102	351	1015	147	395	446	2009	1907	94.92	0.37

COMBIENED HEADSPACE & OCCLUDED GAS DATA (TABLE 5)

Well	Nation	Sample name	Upper Depth	Lower Depth	Sample type	C1 uL/Kg	C2 uL/Kg	C3 uL/Kg	iC4 uL/Kg	nC4 uL/Kg	C5+ uL/Kg	SUM C1-C4	SUM C2-C4	Wetness %	iC4 nC4
34/7-21	NOR	92094-1	1390	1400	Cuttings	4631	11	54	0	0	56	4696	65	1.38	
34/7-21	NOR	92094-2	1430	1440	Cuttings	2760	2	9	0	19	3630	2789	29	1.04	
34/7-21	NOR	92094-3	1470	1480	Cuttings	5721	19	8	1	0	42	5751	29	0.51	4.50
34/7-21	NOR	92094-4	1510	1520	Cuttings	3403	21	6	2	2	69	3433	30	0.88	0.88
34/7-21	NOR	92094-5	1550	1560	Cuttings	2720	35	11	3	2	27	2772	52	1.88	1.60
34/7-21	NOR	92094-6	1590	1600	Cuttings	4725	81	10	6	3	30	4825	100	2.07	2.10
34/7-21	NOR	92094-7	1630	1640	Cuttings	4698	148	20	24	6	54	4895	198	4.04	4.17
34/7-21	NOR	92094-8	1670	1680	Cuttings	206	11	5	11	6	58	239	33	13.89	1.79
34/7-21	NOR	92094-9	1710	1720	Cuttings	2015	39	5	6	2	125	2067	52	2.52	3.51
34/7-21	NOR	92094-10	1750	1760	Cuttings	25887	848	221	133	5	857	27094	1207	4.45	28.66
34/7-21	NOR	92094-11	1790	1800	Cuttings	430	17	6	3	2	78	457	27	5.98	1.73
34/7-21	NOR	92094-12	1820	1830	Cuttings	3659	226	67	52	5	198	4008	349	8.71	10.82
34/7-21	NOR	92094-13	1830	1840	Cuttings	6063	369	130	108	19	558	6689	625	9.35	5.78
34/7-21	NOR	92094-14	1840	1850	Cuttings	8733	622	228	178	25	277	9787	1054	10.77	6.98
34/7-21	NOR	92094-15	1850	1860	Cuttings										
34/7-21	NOR	92094-16	1860	1870	Cuttings										
34/7-21	NOR	92094-17	1870	1880	Cuttings										
34/7-21	NOR	92094-18	1880	1890	Cuttings	225	19	12	15	11	89	282	56	20.03	1.29
34/7-21	NOR	92094-19	1890	1900	Cuttings	1428	73	31	19	5	39	1556	128	8.22	4.21
34/7-21	NOR	92094-20	1930	1940	Cuttings	29509	1427	613	251	75	1622	31875	2366	7.42	3.33
34/7-21	NOR	92094-21	1970	1980	Cuttings	12984	770	283	69	57	109	14162	1179	8.32	1.21
34/7-21	NOR	92094-22	2010	2020	Cuttings	11733	1085	346	55	24	60	13242	1509	11.40	2.32
34/7-21	NOR	92094-23	2050	2060	Cuttings	12692	1598	545	58	38	59	14932	2239	15.00	1.52
34/7-21	NOR	92094-24	2090	2100	Cuttings	47578	8732	2723	264	156	216	59453	11875	19.97	1.70
34/7-21	NOR	92094-25	2130	2140	Cuttings	20921	2293	1268	111	116	190	24708	3787	15.33	0.96
34/7-21	NOR	92094-26	2170	2180	Cuttings	7439	848	503	44	56	67	8890	1451	16.33	0.79
34/7-21	NOR	92094-27	2210	2220	Cuttings	9479	1916	1434	163	274	213	13266	3787	28.55	0.60

COMBIENED HEADSPACE & OCCLUDED GAS DATA (TABLE 5)

Well	Nation	Sample name	Upper Depth	Lower Depth	Sample type	C1 uL/Kg	C2 uL/Kg	C3 uL/Kg	iC4 uL/Kg	nC4 uL/Kg	C5+ uL/Kg	SUM C1-C4	SUM C2-C4	Wetness %	iC4 nC4
34/7-21	NOR	92094-28	2250	2260	Cuttings	9343	1133	1070	193	435	389	12173	2830	23.25	0.44
34/7-21	NOR	92094-29	2280	2290	Cuttings	14736	4716	6425	1572	3401	7661	30849	16114	52.23	0.46
34/7-21	NOR	92094-30	2300	2310	Cuttings	12237	6041	8872	2428	5203	13840	34781	22543	64.82	0.47
34/7-21	NOR	92094-31	2320	2330	Cuttings	17617	10484	15504	4347	9485	19999	57438	39820	69.33	0.46
34/7-21	NOR	92094-32	2340	2350	Cuttings	18651	8373	10694	2722	5518	8848	45959	27308	59.42	0.49
34/7-21	NOR	92094-33	2360	2370	Cuttings	6071	4457	7940	2195	5494	14274	26157	20086	76.79	0.40
34/7-21	NOR	92094-34	2380	2390	Cuttings	6178	2910	5638	1848	4795	16407	21370	15192	71.09	0.39
34/7-21	NOR	92094-35	2400	2410	Cuttings	14922	7563	10454	2628	6291	16549	41857	26936	64.35	0.42
34/7-21	NOR	92094-36	2420	2430	Cuttings	11035	3809	4400	1047	2490	7154	22781	11746	51.56	0.42
34/7-21	NOR	92094-37	2440	2450	Cuttings	12485	4714	4986	867	2321	3174	25374	12888	50.79	0.37
34/7-21	NOR	92094-38	2450	2460	Cuttings	14363	5980	6198	1069	2780	4463	30391	16027	52.74	0.38
34/7-21	NOR	92094-39	2460	2470	Cuttings	8163	3653	3703	558	1584	2044	17660	9498	53.78	0.35
34/7-21	NOR	92094-40	2470	2480	Cuttings	7760	3393	3492	533	1410	1680	16588	8828	53.22	0.38
34/7-21	NOR	92094-41	2480	2490	Cuttings	9293	4267	4252	651	1680	1653	20142	10850	53.86	0.39
34/7-21	NOR	92094-42	2490	2500	Cuttings	10622	5202	4924	632	1802	1659	23182	12560	54.18	0.35
34/7-21	NOR	92094-43	2500	2510	Cuttings	21426	23532	38030	9171	21475	39756	113635	92209	81.14	0.43
34/7-21	NOR	92094-44	2594	2603	Cuttings	21101	9506	10169	1799	5227	10435	47802	26701	55.86	0.34
34/7-21	NOR	92094-45	2603	2612	Cuttings	13377	7590	13660	1400	4437	5604	40464	27086	66.94	0.32
34/7-21	NOR	92094-46	2612	2621	Cuttings	45145	24216	21571	2537	6940	4668	100408	55263	55.04	0.37
34/7-21	NOR	92094-47	2621	2630	Cuttings	24944	11483	10614	1556	4091	2876	52688	27744	52.66	0.38
34/7-21	NOR	92094-48	2630	2639	Cuttings	30607	13003	10810	1222	3287	2013	58929	28322	48.06	0.37
34/7-21	NOR	92094-49	2639	2648	Cuttings	23372	11238	8951	925	2184	1001	46670	23298	49.92	0.42
34/7-21	NOR	92094-50	2648	2657	Cuttings	40074	17618	11223	907	2042	891	71863	31789	44.24	0.44
34/7-21	NOR	92094-51	2657	2666	Cuttings	52213	19964	13475	1108	2732	1016	89492	37280	41.66	0.41
34/7-21	NOR	92094-52	2666	2675	Cuttings	38279	15528	10422	802	2001	704	67032	28753	42.89	0.40
34/7-21	NOR	92094-53	2675	2684	Cuttings	59609	24018	16089	1544	3714	1885	104974	45365	43.22	0.42
34/7-21	NOR	92094-54	2684	2693	Cuttings	41811	16197	11039	1035	2888	1837	72969	31159	42.70	0.36

COMBIENED HEADSPACE & OCCLUDED GAS DATA (TABLE 5)

Well	Nation	Sample name	Upper Depth	Lower Depth	Sample type	C1 uL/Kg	C2 uL/Kg	C3 uL/Kg	iC4 uL/Kg	nC4 uL/Kg	C5+ uL/Kg	SUM C1-C4	SUM C2-C4	Wetness %	iC4 nC4
34/7-21	NOR	92094-55	2693	2702	Cuttings	71903	21518	13882	1377	3662	3080	112341	40438	36.00	0.38
34/7-21	NOR	92094-56	2720	2729	Cuttings	37458	14166	8958	815	2008	2027	63405	25947	40.92	0.41
34/7-21	NOR	92094-57	2747	2756	Cuttings	13548	3828	2818	320	848	1237	21361	7813	36.58	0.38
34/7-21	NOR	92094-58	2774	2783	Cuttings	30695	10559	6503	572	1472	954	49802	19107	38.37	0.39
34/7-21	NOR	92094-59	2801	2810	Cuttings	69879	22251	12481	1099	2529	1355	108239	38360	35.44	0.43
34/7-21	NOR	92094-60	2828	2837	Cuttings	57853	25603	15705	1425	3374	1988	103960	46107	44.35	0.42
34/7-21	NOR	92094-61	2855	2864	Cuttings	114101	34377	17238	1563	3300	1509	170579	56478	33.11	0.47
34/7-21	NOR	92094-62	2882	2891	Cuttings	37657	12031	5579	500	1086	792	56853	19196	33.76	0.46
34/7-21	NOR	92094-63	2909	2918	Cuttings	4595	1568	1044	125	295	497	7628	3033	39.76	0.42
34/7-21	NOR	92094-64	2936	2945	Cuttings	19926	7212	3419	341	584	804	31482	11555	36.70	0.58
34/7-21	NOR	92094-65	2962	2971	Cuttings	42562	17289	9732	962	2042	1421	72588	30025	41.36	0.47
34/7-21	NOR	92094-66	2989	2998	Cuttings	24226	7767	4536	402	898	591	37828	13602	35.96	0.45
34/7-21	NOR	92094-67	3005	3014	Cuttings	23072	5154	2900	295	631	716	32051	8979	28.02	0.47

Well	Nation	Sample name	Upper Depth	Lower Depth	Sample	C1 uL/Kg	C2 uL/Kg	C3 uL/Kg	iC4 uL/Kg	nC4 uL/Kg	C5+ uL/Kg	SUM C1-C4	SUM C2-C4	Wetness %	iC4 nC4
34/7-21A	NOR	92094-68	2190	2200	Cuttings	4173	505	449	63	108	51	5298	1125	21.23	0.58
34/7-21A	NOR	92094-69	2210	2220	Cuttings	4183	728	740	112	192	113	5955	1772	29.75	0.58
34/7-21A	NOR	92094-70	2230	2240	Cuttings	4603	775	804	130	244	141	6555	1953	29.79	0.53
34/7-21A	NOR	92094-71	2250	2260	Cuttings	5091	965	1068	194	396	276	7713	2622	33.99	0.49
34/7-21A	NOR	92094-72	2270	2280	Cuttings	8424	972	904	170	382	358	10853	2429	22.38	0.45
34/7-21A	NOR	92094-73	2290	2300	Cuttings	6894	769	797	156	392	511	9009	2114	23.47	0.40
34/7-21A	NOR	92094-74	2310	2320	Cuttings	8752	1295	1383	302	680	958	12413	3661	29.49	0.44
34/7-21A	NOR	92094-75	2330	2340	Cuttings	4240	1393	2297	611	1370	2259	9911	5671	57.22	0.45
34/7-21A	NOR	92094-76	2350	2360	Cuttings	5104	1463	2510	690	1547	2719	11314	6210	54.89	0.45
34/7-21A	NOR	92094-77	2370	2380	Cuttings	8901	2946	4813	1216	2848	4778	20723	11823	57.05	0.43
34/7-21A	NOR	92094-78	2390	2400	Cuttings	10144	3279	5192	1315	3027	4853	22958	12814	55.81	0.43
34/7-21A	NOR	92094-79	2410	2420	Cuttings	1646	918	2057	575	1362	2298	6558	4913	74.91	0.42
34/7-21A	NOR	92094-80	2430	2440	Cuttings	4925	2104	3912	996	2385	3813	14322	9397	65.61	0.42
34/7-21A	NOR	92094-81	2450	2460	Cuttings	4706	1751	4182	1230	2862	4597	14730	10024	68.05	0.43
34/7-21A	NOR	92094-82	2470	2480	Cuttings	5139	2281	4020	996	2311	3531	14748	9608	65.15	0.43
34/7-21A	NOR	92094-83	2490	2500	Cuttings	5233	2695	4913	1229	2816	4164	16887	11654	69.01	0.44
34/7-21A	NOR	92094-84	2510	2520	Cuttings	7027	4066	8075	2081	4839	7764	26088	19061	73.06	0.43
34/7-21A	NOR	92094-85	2530	2540	Cuttings	EMPTY CAN									
34/7-21A	NOR	92094-86	2550	2560	Cuttings	8911	3422	5460	1331	2974	4554	22098	13187	59.67	0.45
34/7-21A	NOR	92094-87	2570	2580	Cuttings	6721	2674	4034	943	2017	3020	16389	9668	58.99	0.47
34/7-21A	NOR	92094-88	2590	2600	Cuttings	4166	1746	2339	458	962	1269	9670	5505	56.92	0.48
34/7-21A	NOR	92094-89	2610	2620	Cuttings	4367	1754	2593	542	1118	1510	10374	6007	57.90	0.48
34/7-21A	NOR	92094-90	2630	2640	Cuttings	9273	2981	4295	872	1856	2855	19278	10005	51.90	0.47
34/7-21A	NOR	92094-91	2650	2660	Cuttings	5021	1468	1916	377	823	1566	9606	4584	47.73	0.46
34/7-21A	NOR	92094-92	2670	2680	Cuttings	10384	2912	3149	513	1070	1380	18027	7643	42.40	0.48
34/7-21A	NOR	92094-93	2690	2700	Cuttings	3716	784	829	166	379	742	5874	2158	36.73	0.44
34/7-21A	NOR	92094-94	2700	2709	Cuttings	3185	853	973	166	362	556	5539	2354	42.50	0.46
34/7-21A	NOR	92094-95	2709	2718	Cuttings	3116	927	934	156	348	474	5481	2364	43.14	0.45
34/7-21A	NOR	92094-96	2718	2727	Cuttings	2509	455	468	73	161	220	3666	1157	31.57	0.45
34/7-21A	NOR	92094-97	2727	2736	Cuttings	3934	751	829	140	331	422	5984	2050	34.26	0.42
34/7-21A	NOR	92094-98	2736	2745	Cuttings	2381	538	599	99	227	333	3844	1463	38.07	0.44
34/7-21A	NOR	92094-99	2745	2754	Cuttings	2111	433	497	79	179	204	3298	1187	35.99	0.44

Well	Nation	Sample name	Upper Depth	Lower Depth	Sample	C1 uL/Kg	C2 uL/Kg	C3 uL/Kg	IC4 uL/Kg	nC4 uL/Kg	C5+ uL/Kg	SUM C1-C4	SUM C2-C4	Wetness %	IC4 nC4
34/7-21A	NOR	92094-100	2754	2763	Cuttings	3597	867	932	144	321	391	5861	2264	38.62	0.45
34/7-21A	NOR	92094-101	2763	2772	Cuttings	2445	616	755	134	300	350	4249	1804	42.46	0.45
34/7-21A	NOR	92094-102	2772	2781	Cuttings	2827	596	670	115	275	335	4482	1655	36.94	0.42
34/7-21A	NOR	92094-103	2781	2790	Cuttings	3040	679	782	124	306	444	4931	1891	38.35	0.40
34/7-21A	NOR	91094-104	2790	2799	Cuttings	1814	328	362	60	144	155	2707	893	32.99	0.41
34/7-21A	NOR	92094-105	2799	2808	Cuttings	1939	421	419	64	157	198	3001	1061	35.37	0.41
34/7-21A	NOR	92094-106	2808	2817	Cuttings	1964	483	579	93	222	296	3341	1377	41.22	0.42
34/7-21A	NOR	92094-107	2817	2826	Cuttings	2034	371	407	67	178	254	3057	1023	33.47	0.38
34/7-21A	NOR	92094-108	2826	2835	Cuttings	3134	521	580	97	260	404	4591	1457	31.74	0.37
34/7-21A	NOR	92094-109	2835	2844	Cuttings	5686	1300	1862	426	1127	2205	10400	4714	45.33	0.38
34/7-21A	NOR	92094-110	2910	2919	Cuttings	3357	2091	2866	588	1551	2395	10453	7096	67.89	0.38
34/7-21A	NOR	92094-111	2919	2928	Cuttings	6471	3905	5550	1173	3084	3946	20184	13713	67.94	0.38
34/7-21A	NOR	92094-112	2928	2937	Cuttings	1642	971	870	116	281	295	3880	2238	57.67	0.41
34/7-21A	NOR	92094-113	2937	2946	Cuttings	9556	7594	9465	1615	4281	4562	32511	22955	70.61	0.38
34/7-21A	NOR	92094-114	2946	2955	Cuttings	11462	5551	5206	801	2084	2847	25103	13641	54.34	0.38
34/7-21A	NOR	92094-115	2955	2964	Cuttings	159	109	78	8	17	93	371	212	57.06	0.44
34/7-21A	NOR	92094-116	2964	2973	Cuttings	12920	8221	7668	1256	2952	3227	33017	20097	60.87	0.43
34/7-21A	NOR	92094-117	2973	2982	Cuttings	19143	7339	6322	997	2514	2955	36315	17172	47.29	0.40
34/7-21A	NOR	92094-118	2991	3000	Cuttings	13321	7308	6422	1077	2422	2305	30551	17229	56.40	0.44
34/7-21A	NOR	92094-119	3009	3018	Cuttings	22952	8445	6726	1186	2538	2003	41847	18895	45.15	0.47
34/7-21A	NOR	92094-120	3027	3036	Cuttings	13871	3321	1745	286	512	530	19734	5864	29.71	0.56
34/7-21A	NOR	92094-121	3045	3054	Cuttings	10232	2675	1633	274	618	791	15432	5199	33.69	0.44
34/7-21A	NOR	92094-122	3060	3069	Cuttings	7167	2173	1469	223	532	612	11564	4397	38.02	0.42
34/7-21A	NOR	92094-123	3078	3087	Cuttings	6416	2228	1631	254	569	833	11097	4681	42.18	0.45
34/7-21A	NOR	92094-124	3096	3105	Cuttings	3953	1453	1265	216	451	521	7338	3385	46.13	0.48
34/7-21A	NOR	92094-125	3114	3123	Cuttings	2740	1119	982	165	325	344	5330	2590	48.59	0.51
34/7-21A	NOR	92094-126	3132	3141	Cuttings	2165	624	425	56	119	159	3389	1223	36.10	0.47
34/7-21A	NOR	92094-127	3150	3159	Cuttings	2230	575	433	60	128	267	3426	1196	34.92	0.47
34/7-21A	NOR	92094-128	3168	3177	Cuttings	1339	553	398	48	97	147	2435	1096	44.99	0.50
34/7-21A	NOR	92094-129	3186	3195	Cuttings	3853	1312	1066	141	261	427	6634	2781	41.92	0.54

OCCLUDED GAS DATA

Table 7

Well	Nation	Sample name	Upper Depth	Lower Depth	Sample	C1 uL/Kg	C2 uL/Kg	C3 uL/Kg	IC4 uL/Kg	nC4 uL/Kg	C5+ uL/Kg	SUM C1-C4	SUM C2-C4	Wetness %	IC4 nC4
34/7-21A	NOR	92094-68	2190	2200	Cuttings	62	3	6	2	7	41	80	18	22.73	0.26
34/7-21A	NOR	92094-69	2210	2220	Cuttings	94	11	37	13	39	157	194	100	51.42	0.32
34/7-21A	NOR	92094-70	2230	2240	Cuttings	54	6	34	13	47	95	154	100	64.71	0.27
34/7-21A	NOR	92094-71	2250	2260	Cuttings	79	11	37	12	55	150	194	115	59.26	0.22
34/7-21A	NOR	92094-72	2270	2280	Cuttings	91	18	27	6	33	196	175	84	47.91	0.19
34/7-21A	NOR	92094-73	2290	2300	Cuttings	65	10	17	6	21	169	119	54	45.49	0.27
34/7-21A	NOR	92094-74	2310	2320	Cuttings	116	25	55	19	97	1097	312	196	62.70	0.19
34/7-21A	NOR	92094-75	2330	2340	Cuttings	88	14	70	39	177	2809	387	299	77.32	0.22
34/7-21A	NOR	92094-76	2350	2360	Cuttings	92	24	133	81	323	5215	653	561	85.88	0.25
34/7-21A	NOR	92094-77	2370	2380	Cuttings	93	29	204	133	530	6782	989	896	90.62	0.25
34/7-21A	NOR	92094-78	2390	2400	Cuttings	68	28	180	113	464	4735	854	785	91.99	0.24
34/7-21A	NOR	92094-79	2410	2420	Cuttings	108	19	154	104	441	4924	825	717	86.93	0.24
34/7-21A	NOR	92094-80	2430	2440	Cuttings	72	32	250	167	652	8896	1173	1101	93.90	0.26
34/7-21A	NOR	92094-81	2450	2460	Cuttings	70	14	135	113	457	7107	789	719	91.10	0.25
34/7-21A	NOR	92094-82	2470	2480	Cuttings	114	28	231	169	648	8073	1190	1075	90.39	0.26
34/7-21A	NOR	92094-83	2490	2500	Cuttings	87	50	411	299	1076	9099	1924	1837	95.48	0.28
34/7-21A	NOR	92094-84	2510	2520	Cuttings	149	46	369	307	1118	14308	1989	1841	92.53	0.27
34/7-21A	NOR	92094-85	2530	2540	Cuttings										
34/7-21A	NOR	92094-86	2550	2560	Cuttings	87	38	323	206	699	9174	1353	1266	93.57	0.29
34/7-21A	NOR	92094-87	2570	2580	Cuttings	147	50	360	196	693	11791	1446	1299	89.86	0.28
34/7-21A	NOR	92094-88	2590	2600	Cuttings	100	59	367	163	552	5115	1242	1142	91.92	0.30
34/7-21A	NOR	92094-89	2610	2620	Cuttings	105	41	326	159	555	6899	1187	1082	91.13	0.29
34/7-21A	NOR	92094-90	2630	2640	Cuttings	105	31	186	76	291	5689	688	583	84.76	0.26
34/7-21A	NOR	92094-91	2650	2660	Cuttings	122	49	253	80	301	4641	805	683	84.89	0.27
34/7-21A	NOR	92094-92	2670	2680	Cuttings	105	60	261	69	256	2176	750	646	86.04	0.27
34/7-21A	NOR	92094-93	2690	2700	Cuttings	125	43	207	64	247	3240	685	561	81.82	0.26
34/7-21A	NOR	92094-94	2700	2709	Cuttings	130	54	224	55	223	2505	686	556	81.04	0.25
34/7-21A	NOR	92094-95	2709	2718	Cuttings	98	31	165	41	169	1666	505	406	80.51	0.24
34/7-21A	NOR	92094-96	2718	2727	Cuttings	89	26	119	28	118	1605	379	291	76.59	0.24
34/7-21A	NOR	92094-97	2727	2736	Cuttings	73	18	71	16	78	1310	256	183	71.64	0.21
34/7-21A	NOR	92094-98	2736	2745	Cuttings	88	27	93	22	101	1329	332	243	73.41	0.22
34/7-21A	NOR	92094-99	2745	2754	Cuttings	120	38	129	26	119	2102	432	312	72.25	0.22

Table 7

Well	Nation	Sample name	Upper Depth	Lower Depth	Sample	C1 uL/Kg	C2 uL/Kg	C3 uL/Kg	IC4 uL/Kg	nC4 uL/Kg	C5+ uL/Kg	SUM C1-C4	SUM C2-C4	Wetness %	IC4 nC4
34/7-21A	NOR	92094-100	2754	2763	Cuttings	149	50	172	41	158	2166	570	421	73.89	0.26
34/7-21A	NOR	92094-101	2763	2772	Cuttings	148	45	128	30	140	3538	491	343	69.77	0.21
34/7-21A	NOR	92094-102	2772	2781	Cuttings	146	38	95	22	117	1748	419	273	65.10	0.19
34/7-21A	NOR	92094-103	2781	2790	Cuttings	98	20	77	20	90	3163	305	206	67.73	0.22
34/7-21A	NOR	91094-104	2790	2799	Cuttings	95	28	87	20	90	1371	320	225	70.38	0.22
34/7-21A	NOR	92094-105	2799	2808	Cuttings	79	21	71	23	95	1446	288	209	72.62	0.24
34/7-21A	NOR	92094-106	2808	2817	Cuttings	118	17	87	27	123	2160	372	254	68.19	0.22
34/7-21A	NOR	92094-107	2817	2826	Cuttings	68	13	65	16	92	893	254	186	73.26	0.17
34/7-21A	NOR	92094-108	2826	2835	Cuttings	92	36	81	27	98	1294	334	242	72.54	0.27
34/7-21A	NOR	92094-109	2835	2844	Cuttings	92	21	98	48	209	1923	469	377	80.34	0.23
34/7-21A	NOR	92094-110	2910	2919	Cuttings	171	84	705	367	1443	14084	2770	2599	93.82	0.25
34/7-21A	NOR	92094-111	2919	2928	Cuttings	191	381	2892	1234	4597	22529	9295	9104	97.94	0.27
34/7-21A	NOR	92094-112	2928	2937	Cuttings	114	264	2092	767	2989	10749	6226	6112	98.18	0.26
34/7-21A	NOR	92094-113	2937	2946	Cuttings	102	456	3096	980	3746	7071	8381	8279	98.78	0.26
34/7-21A	NOR	92094-114	2946	2955	Cuttings	106	196	1362	472	1888	4997	4024	3918	97.37	0.25
34/7-21A	NOR	92094-115	2955	2964	Cuttings	490	5336	13753	3156	9719	14477	32455	31965	98.49	0.32
34/7-21A	NOR	92094-116	2964	2973	Cuttings	429	2923	9555	2286	7093	12222	22286	21857	98.08	0.32
34/7-21A	NOR	92094-117	2973	2982	Cuttings	626	2789	8171	2168	7076	16205	20830	20203	96.99	0.31
34/7-21A	NOR	92094-118	2991	3000	Cuttings	239	1442	4435	924	3107	4816	10147	9908	97.64	0.30
34/7-21A	NOR	92094-119	3009	3018	Cuttings	746	2470	5361	1239	3889	5642	13705	12959	94.56	0.32
34/7-21A	NOR	92094-120	3027	3036	Cuttings	6708	10080	9387	1403	4193	6039	31770	25063	78.89	0.33
34/7-21A	NOR	92094-121	3045	3054	Cuttings	2127	4162	5931	1074	3569	7511	16862	14735	87.39	0.30
34/7-21A	NOR	92094-122	3060	3069	Cuttings	654	1852	3892	764	2558	6674	9719	9065	93.27	0.30
34/7-21A	NOR	92094-123	3078	3087	Cuttings	136	323	853	176	606	1841	2094	1958	93.52	0.29
34/7-21A	NOR	92094-124	3096	3105	Cuttings	151	342	1017	218	725	2067	2453	2301	93.83	0.30
34/7-21A	NOR	92094-125	3114	3123	Cuttings	157	514	1482	319	1029	2301	3501	3344	95.51	0.31
34/7-21A	NOR	92094-126	3132	3141	Cuttings	275	994	2443	489	1427	2583	5628	5353	95.12	0.34
34/7-21A	NOR	92094-127	3150	3159	Cuttings	237	320	1212	328	1026	4315	3124	2887	92.41	0.32
34/7-21A	NOR	92094-128	3168	3177	Cuttings	81	166	558	110	336	398	1250	1169	93.54	0.33
34/7-21A	NOR	92094-129	3186	3195	Cuttings	163	239	1050	250	769	2395	2471	2308	93.42	0.33

COMBIENED HEADSPACE & OCCLUDED GAS DATA (TABLE 8)

Well	Nation	Sample name	Upper Depth	Lower Depth	Sample Type	C1 ul/Kg	C2 ul/Kg	C3 ul/Kg	iC4 ul/Kg	nC4 ul/Kg	C5+ ul/Kg	SUM C1-C4	SUM C2-C4	Wetness %	iC4 nC4
34/7-21A	NOR	92094-68	2190	2200	Cuttings	4235	509	455	65	115	92	5378	1143	21.25	0.56
34/7-21A	NOR	92094-69	2210	2220	Cuttings	4278	739	777	124	232	271	6149	1872	30.44	0.54
34/7-21A	NOR	92094-70	2230	2240	Cuttings	4657	781	838	143	291	236	6710	2052	30.59	0.49
34/7-21A	NOR	92094-71	2250	2260	Cuttings	5170	976	1104	206	451	426	7907	2737	34.61	0.46
34/7-21A	NOR	92094-72	2270	2280	Cuttings	8515	990	930	177	415	553	11028	2512	22.78	0.43
34/7-21A	NOR	92094-73	2290	2300	Cuttings	6959	779	814	162	414	681	9127	2168	23.76	0.39
34/7-21A	NOR	92094-74	2310	2320	Cuttings	8869	1320	1438	321	777	2056	12725	3856	30.31	0.41
34/7-21A	NOR	92094-75	2330	2340	Cuttings	4327	1407	2367	650	1547	5068	10298	5970	57.98	0.42
34/7-21A	NOR	92094-76	2350	2360	Cuttings	5197	1487	2643	770	1870	7935	11967	6771	56.58	0.41
34/7-21A	NOR	92094-77	2370	2380	Cuttings	8994	2975	5017	1349	3378	11560	21712	12719	58.58	0.40
34/7-21A	NOR	92094-78	2390	2400	Cuttings	10213	3307	5372	1428	3492	9589	23812	13599	57.11	0.41
34/7-21A	NOR	92094-79	2410	2420	Cuttings	1753	937	2211	679	1803	7222	7383	5629	76.25	0.38
34/7-21A	NOR	92094-80	2430	2440	Cuttings	4997	2136	4162	1164	3037	12709	15495	10498	67.75	0.38
34/7-21A	NOR	92094-81	2450	2460	Cuttings	4776	1765	4317	1342	3319	11704	15519	10743	69.22	0.40
34/7-21A	NOR	92094-82	2470	2480	Cuttings	5254	2309	4251	1165	2959	11605	15937	10684	67.04	0.39
34/7-21A	NOR	92094-83	2490	2500	Cuttings	5320	2745	5324	1528	3893	13263	18810	13490	71.72	0.39
34/7-21A	NOR	92094-84	2510	2520	Cuttings	7175	4112	8444	2388	5958	22071	28077	20902	74.44	0.40
34/7-21A	NOR	92094-85	2530	2540	Cuttings										
34/7-21A	NOR	92094-86	2550	2560	Cuttings	8998	3461	5782	1537	3673	13728	23451	14453	61.63	0.42
34/7-21A	NOR	92094-87	2570	2580	Cuttings	6867	2724	4394	1139	2710	14811	17835	10967	61.49	0.42
34/7-21A	NOR	92094-88	2590	2600	Cuttings	4266	1805	2706	621	1514	6385	10913	6646	60.91	0.41
34/7-21A	NOR	92094-89	2610	2620	Cuttings	4473	1795	2919	701	1673	8409	11561	7089	61.31	0.42
34/7-21A	NOR	92094-90	2630	2640	Cuttings	9378	3012	4481	948	2147	8544	19966	10588	53.03	0.44
34/7-21A	NOR	92094-91	2650	2660	Cuttings	5143	1516	2170	457	1124	6207	10410	5267	50.60	0.41
34/7-21A	NOR	92094-92	2670	2680	Cuttings	10489	2972	3409	582	1326	3556	18778	8289	44.14	0.44
34/7-21A	NOR	92094-93	2690	2700	Cuttings	3841	827	1037	229	626	3982	6559	2719	41.45	0.37
34/7-21A	NOR	92094-94	2700	2709	Cuttings	3315	907	1197	221	585	3061	6224	2909	46.74	0.38
34/7-21A	NOR	92094-95	2709	2718	Cuttings	3215	957	1099	197	517	2140	5985	2770	46.29	0.38
34/7-21A	NOR	92094-96	2718	2727	Cuttings	2598	481	587	101	279	1825	4045	1448	35.79	0.36
34/7-21A	NOR	92094-97	2727	2736	Cuttings	4007	769	900	156	409	1732	6240	2234	35.79	0.38
34/7-21A	NOR	92094-98	2736	2745	Cuttings	2469	565	692	121	329	1662	4176	1707	40.87	0.37
34/7-21A	NOR	92094-99	2745	2754	Cuttings	2231	470	626	105	298	2306	3730	1499	40.19	0.35

COMBIENED HEADSPACE & OCCLUDED GAS DATA (TABLE 8)

Well	Nation	Sample name	Upper Depth	Lower Depth	Sample Type	C1 uL/Kg	C2 uL/Kg	C3 uL/Kg	iC4 uL/Kg	nC4 uL/Kg	C5+ uL/Kg	SUM C1-C4	SUM C2-C4	Wetness %	iC4 nC4
34/7-21A	NOR	92094-100	2754	2763	Cuttings	3746	917	1105	185	479	2557	6431	2685	41.75	0.39
34/7-21A	NOR	92094-101	2763	2772	Cuttings	2593	660	884	163	439	3887	4740	2147	45.29	0.37
34/7-21A	NOR	92094-102	2772	2781	Cuttings	2973	634	764	138	392	2083	4901	1928	39.34	0.35
34/7-21A	NOR	92094-103	2781	2790	Cuttings	3138	699	858	144	396	3607	5236	2097	40.06	0.36
34/7-21A	NOR	91094-104	2790	2799	Cuttings	1909	357	448	79	234	1526	3027	1118	36.94	0.34
34/7-21A	NOR	92094-105	2799	2808	Cuttings	2018	441	490	87	252	1645	3289	1271	38.64	0.35
34/7-21A	NOR	92094-106	2808	2817	Cuttings	2082	500	666	120	345	2456	3713	1631	43.93	0.35
34/7-21A	NOR	92094-107	2817	2826	Cuttings	2102	384	472	83	270	1147	3311	1209	36.52	0.31
34/7-21A	NOR	92094-108	2826	2835	Cuttings	3226	557	661	123	358	1698	4925	1699	34.51	0.34
34/7-21A	NOR	92094-109	2835	2844	Cuttings	5778	1321	1960	474	1335	4128	10869	5091	46.84	0.36
34/7-21A	NOR	92094-110	2910	2919	Cuttings	3528	2174	3571	956	2994	16480	13223	9695	73.32	0.32
34/7-21A	NOR	92094-111	2919	2928	Cuttings	6662	4286	8442	2407	7681	26475	29479	22817	77.40	0.31
34/7-21A	NOR	92094-112	2928	2937	Cuttings	1756	1235	2962	883	3271	11045	10106	8350	82.62	0.27
34/7-21A	NOR	92094-113	2937	2946	Cuttings	9658	8050	12561	2595	8027	11632	40892	31234	76.38	0.32
34/7-21A	NOR	92094-114	2946	2955	Cuttings	11567	5747	6568	1273	3972	7844	29127	17560	60.29	0.32
34/7-21A	NOR	92094-115	2955	2964	Cuttings	649	5446	13831	3163	9736	14570	32826	32176	98.02	0.32
34/7-21A	NOR	92094-116	2964	2973	Cuttings	13349	11144	17224	3542	10044	15449	55303	41954	75.86	0.35
34/7-21A	NOR	92094-117	2973	2982	Cuttings	19769	10128	14493	3165	9590	19161	57145	37375	65.40	0.33
34/7-21A	NOR	92094-118	2991	3000	Cuttings	13560	8750	10858	2001	5529	7121	40697	27137	66.68	0.36
34/7-21A	NOR	92094-119	3009	3018	Cuttings	23698	10916	12087	2425	6426	7644	55552	31854	57.34	0.38
34/7-21A	NOR	92094-120	3027	3036	Cuttings	20578	13401	11132	1689	4704	6569	51505	30926	60.05	0.36
34/7-21A	NOR	92094-121	3045	3054	Cuttings	12359	6837	7563	1348	4187	8301	32293	19934	61.73	0.32
34/7-21A	NOR	92094-122	3060	3069	Cuttings	7821	4025	5361	987	3090	7286	21283	13462	63.25	0.32
34/7-21A	NOR	92094-123	3078	3087	Cuttings	6551	2551	2484	430	1175	2673	13191	6640	50.33	0.37
34/7-21A	NOR	92094-124	3096	3105	Cuttings	4105	1795	2281	433	1176	2587	9791	5686	58.08	0.37
34/7-21A	NOR	92094-125	3114	3123	Cuttings	2897	1633	2464	484	1353	2645	8831	5934	67.19	0.36
34/7-21A	NOR	92094-126	3132	3141	Cuttings	2440	1618	2868	544	1546	2742	9017	6576	72.94	0.35
34/7-21A	NOR	92094-127	3150	3159	Cuttings	2467	895	1645	389	1155	4582	6550	4083	62.34	0.34
34/7-21A	NOR	92094-128	3168	3177	Cuttings	1420	719	955	158	432	545	3685	2265	61.46	0.37
34/7-21A	NOR	92094-129	3186	3195	Cuttings	4016	1551	2116	392	1030	2822	9104	5089	55.89	0.38

GAS ISOTOPE DATA

Table 9

Well	Nation	Sample name	Upper Depth	Lower Depth	Sample Type	$\delta^{13}\text{C}_1$	$\delta^{13}\text{C}_2$	$\delta^{13}\text{C}_3$	$\delta^{13}\text{C}_4$	$\delta^{13}\text{nC}_4$	$\delta^{13}\text{C}_4^*$	$\delta^2\text{D}_1$
34/7-21	NOR	92094-14	1840	1850	CUT	-35.3	-21.3	-19.2			-18.1	N.D.
34/7-21	NOR	92094-42	2490	2500	CUT	-38.8	-31.1	-31.4			-30.8	N.D.
34/7-21	NOR	92094-43	2500	2510	CUT	-43.6	-30.5	-28.9	-28.7	-29.1		N.D.
34/7-21	NOR	92094-44	2594	2603	CUT	-32.4	-24.5	-23.7			-23.8	N.D.
34/7-21	NOR	92094-56	2720	2729	CUT	N.D.	N.D.	N.D.			N.D.	N.D.
34/7-21	NOR	92094-64	2936	2945	CUT	N.D.	N.D.	N.D.			N.D.	N.D.
34/7-21A	NOR	92094-75	2330	2340	CUT	-42.4	-30.8	-29.8			-28.6	N.D.
34/7-21A	NOR	92094-86	2550	2560	CUT	-42.7	-30.1	-28.2			-30.3	N.D.
34/7-21A	NOR	92094-109	2835	2844	CUT	-44.6	-33.5	-28.1			-30.0	N.D.
34/7-21A	NOR	92094-110	2910	2919	CUT	-43.0	-31.0	-29.0			-30.2	N.D.
34/7-21A	NOR	92094-112	2928	2937	CUT	-42.1	-30.4	-29.7			-29.4	N.D.

N.D. not determinable

* - iC_4 and nC_4 determined in one fraction.

Well	Nation	Sample name	Upper Depth	Lower Depth	Sample type	Lithology
34/7-21	NOR	92094-1	1390	1400	Cuttings	CLYST, OL-GY + 10% ANH + MNR CLYST, YEL-GY
34/7-21	NOR	92094-2	1430	1440	Cuttings	CLYST, OL-GY + MNR CLYST, YEL-GY
34/7-21	NOR	92094-3	1470	1480	Cuttings	CLYST, OL-GY + MNR CLYST, YEL-GY
34/7-21	NOR	92094-4	1510	1520	Cuttings	CLYST, OL-GY + TR CLYST, YEL-GY
34/7-21	NOR	92094-5	1550	1560	Cuttings	CLYST, OL-GY + TR CLYST, YEL-GY
34/7-21	NOR	92094-6	1590	1600	Cuttings	CLYST, OL-GY + TR CLYST, YEL-GY
34/7-21	NOR	92094-7	1630	1640	Cuttings	CLYST, OL-GY + MNR LST, V LT GY
34/7-21	NOR	92094-8	1670	1680	Cuttings	CLYST, OL-GY + MNR LST, V LT GY
34/7-21	NOR	92094-9	1710	1720	Cuttings	CLYST, OL-GY + 30% CLYST, MOD BRN + TR LST, V LT GY
34/7-21	NOR	92094-10	1750	1760	Cuttings	CLYST, OL-GY + 20% CLYST, OL-BLK + 10% CLYST, MOD BRN + TR LST, V LT GY
34/7-21	NOR	92094-11	1790	1800	Cuttings	CLYST, LT OL-GY + 30% CLYST, OL-GY + TR LST, V LT GY
34/7-21	NOR	92094-12	1820	1830	Cuttings	CLYST, LT OL-GY + 30% CLYST, OL-GY + TR LST, V LT GY
34/7-21	NOR	92094-13	1830	1840	Cuttings	CLYST, LT OL-GY + 30% CLYST, OL-GY + TR LST, V LT GY
34/7-21	NOR	92094-14	1840	1850	Cuttings	CLYST, LT OL-GY + 20% CLYST, OL-GY + MNR LST, V LT GY
34/7-21	NOR	92094-15	1850	1860	Cuttings	NO SAMPLE
34/7-21	NOR	92094-16	1860	1870	Cuttings	NO SAMPLE
34/7-21	NOR	92094-17	1870	1880	Cuttings	NO SAMPLE
34/7-21	NOR	92094-18	1880	1890	Cuttings	CLYST, OL-GY + 30% CLYST, LT OL-GY + MNR LST, V LT GY + TR PYR
34/7-21	NOR	92094-19	1890	1900	Cuttings	CLYST, OL-GY + 30% CLYST, LT OL-GY + 10% CLYST, MOD BRN + MNR LST, WHT
34/7-21	NOR	92094-20	1930	1940	Cuttings	CLYST, MED GY, CALC + 20% CLYST, DK GY, CALC + TR LST, WHT
34/7-21	NOR	92094-21	1970	1980	Cuttings	CLYST, MED GY, CALC + 10% CLYST, DK GY, CALC + 10% LST, WHT
34/7-21	NOR	92094-22	2010	2020	Cuttings	CLYST, MED GY, CALC + 10% CLYST, DK GY, CALC + TR LST, WHT
34/7-21	NOR	92094-23	2050	2060	Cuttings	CLYST, MED GY, CALC + 10% CLYST, DK GY, CALC + TR LST, WHT
34/7-21	NOR	92094-24	2090	2100	Cuttings	CLYST, MED GY, CALC + 10% CLYST, DK GY + TR LST, WHT
34/7-21	NOR	92094-25	2130	2140	Cuttings	CLYST, MED GY, CALC + MNR CLYST, DK GY + TR LST, WHT
34/7-21	NOR	92094-26	2170	2180	Cuttings	CLYST, MED GY + 30% CLYST, GY-RED + 10% CLYST, DK GY + TR LST, V LT GY
34/7-21	NOR	92094-27	2210	2220	Cuttings	CLYST, MED GY + 10% CLYST, DK GY + MNR CLYST, YEL-GY + TR LCM

LITHOLOGY DESCRIPTIONS

Table 10

Well	Nation	Sample name	Upper Depth	Lower Depth	Sample type	Lithology
34/7-21	NOR	92094-28	2250	2260	Cuttings	CLYST, MED-DK GY + TR ANH
34/7-21	NOR	92094-29	2280	2290	Cuttings	CLYST, MED GY, CALC
34/7-21	NOR	92094-30	2300	2310	Cuttings	CLYST, MED GY, CALC + 10% CLYST, DK GY + TR LST, WHT
34/7-21	NOR	92094-31	2320	2330	Cuttings	CLYST, MED GY, CALC + MNR LST, V LT GY
34/7-21	NOR	92094-32	2340	2350	Cuttings	CLYST, MED GY, CALC + 10% CLYST, DK GY + TR ANH
34/7-21	NOR	92094-33	2360	2370	Cuttings	CLYST, MED GY, CALC + 10% CLYST, DK GY + TR LST WHT
34/7-21	NOR	92094-34	2380	2390	Cuttings	CLYST, MED GY + 20% CLYST, DK GY + MNR ANH
34/7-21	NOR	92094-35	2400	2410	Cuttings	CLYST, MED GY + 10% CLYST, DK GY + TR LST, WHT, + TR LCM
34/7-21	NOR	92094-36	2420	2430	Cuttings	CLYST, MED GY + 10% CLYST, DK GY + TR LST, WHT + TR ANH
34/7-21	NOR	92094-37	2440	2450	Cuttings	CLYST, MED GY + 10% CLYST, DK GY + TR LST, V LT GY
34/7-21	NOR	92094-38	2450	2460	Cuttings	CLYST, MED GY + 10% CLYST, DK GY + TR LST, WHT
34/7-21	NOR	92094-39	2460	2470	Cuttings	CLYST, MED GY + 10% CLYST, DK GY + MNR LST, WHT
34/7-21	NOR	92094-40	2470	2480	Cuttings	CLYST, MED GY + 10% CLYST, DK GY + MNR CLYST, YEL-GY + TR LST, V LT GY
34/7-21	NOR	92094-41	2480	2490	Cuttings	CLYST, MED-DK GY + MNR CLYST, DK GY + TR CLYST, YEL-GY
34/7-21	NOR	92094-42	2490	2500	Cuttings	CLYST, MED-DK GY + MNR CLYST, DK GY + TR CLYST, YEL-GY
34/7-21	NOR	92094-43	2500	2510	Cuttings	CLYST, MED GY, CALC + 20% LST, WHT + 10% CLYST, DK GY, CALC
34/7-21	NOR	92094-44	2594	2603	Cuttings	CLYST, MED GY, CALC + MNR CLYST, DK GY, CALC + TR CLYST, MOD BRN, CALC + TR LST, WHT
34/7-21	NOR	92094-45	2603	2612	Cuttings	CLYST, MED GY + 10% CLYST DK GY + TR LST, WHT
34/7-21	NOR	92094-46	2612	2621	Cuttings	CLYST, MED-DK GY + 10% CLYST, DK GY + MNR LST, LT GY + TR CLYST, MOD BRN CALC
34/7-21	NOR	92094-47	2621	2630	Cuttings	CLYST, MED-DK GY + 10% CLYST, DK GY + MNR LST, V LT GY
34/7-21	NOR	92094-48	2630	2639	Cuttings	CLYST, DK GY + 30% CLYST, MED-DK GY + TR LST, V LT GY + TR CLYST, MOD BRN, CALC
34/7-21	NOR	92094-49	2639	2648	Cuttings	CLYST, MED-DK GY + 20% CLYST, DK GY + MNR LST, LT GY
34/7-21	NOR	92094-50	2648	2657	Cuttings	CLYST, MED-DK GY + 10% CLYST, DK GY + MNR LST, LT GY
34/7-21	NOR	92094-51	2657	2666	Cuttings	CLYST, DK GY + MNR CLYST, GY-BLK + TR LST, LT GY
34/7-21	NOR	92094-52	2666	2675	Cuttings	CLYST, MED-DK GY + 20% CLYST, GY-BLK + 10% LST, LT OL-GY
34/7-21	NOR	92094-53	2675	2684	Cuttings	CLYST, MED-DK GY + 20% CLYST, GY-BLK + 10% LST, LT OL-GY
34/7-21	NOR	92094-54	2684	2693	Cuttings	CLYST, DK GY + 20% ANH + 10% CLYST, GY-BLK + MNR SND

LITHOLOGY DESCRIPTIONS

Table 10

Well	Nation	Sample name	Upper Depth	Lower Depth	Sample type	Lithology
34/7-21	NOR	92094-55	2693	2702	Cuttings	QTZ + 20% ANH + 10% CLYST, MED-DK GY + MNR CLYST, GY-BLK
34/7-21	NOR	92094-56	2720	2729	Cuttings	QTZ + 20% ANH + 10% CLYST, MED-DK GY + MNR CLYST, DK GY
34/7-21	NOR	92094-57	2747	2756	Cuttings	SST, V LT GY + 10% CLYST, OL-GY + MNR CLYST, DK GY + TR CLYST, MOD BRN
34/7-21	NOR	92094-58	2774	2783	Cuttings	SST, LT GY + 10% CLYST, MED-DK GY + MNR CLYST, DK GY + MNR ANH
34/7-21	NOR	92094-59	2801	2810	Cuttings	CLYST, MED-LT GY + 20% COAL + 10% SST, WHT
34/7-21	NOR	92094-60	2828	2837	Cuttings	CLYST, MED GY + 10% COAL + 10% SST, WHT
34/7-21	NOR	92094-61	2855	2864	Cuttings	CLYST, OL-GY + 30% COAL + MNR SST, WHT
34/7-21	NOR	92094-62	2882	2891	Cuttings	SST, WHT + 20% LST, WHT + 20% CLYST, OL-GY + 10% COAL + MNR CLYST, OL-GY
34/7-21	NOR	92094-63	2909	2918	Cuttings	LST, WHT + MNR CLYST, OL-GY + MNR CLYST, MED-DK GY
34/7-21	NOR	92094-64	2936	2945	Cuttings	LST, V LT GY + 30% CLYST, LT GY, SNDY + TR COAL
34/7-21	NOR	92094-65	2962	2971	Cuttings	CLYST, MED-DK GY + 20% CLYST, GY-BLK + MNR LST, V LT GY
34/7-21	NOR	92094-66	2989	2998	Cuttings	CLYST, MED-DK GY + 10% CLYST, GY-BLK + MNR LST, V LT GY + TR QTZ
34/7-21	NOR	92094-67	3005	3014	Cuttings	CLYST, MED-DK GY + 10% CLYST, GY-BLK + MNR CLYST, LT OL-GY + TR LST, WHT

LITHOLOGY DESCRIPTIONS

Table 10

Well	Nation	Sample ID	Upper Depth	Lower Depth	Sample Type	Lithology
34/7-21A	NOR	92094-68	2200	2200	Cuttings	Clyst, med lt gy + 20% Clyst, med yel brn + mnr Clyst, lt gy, calc
34/7-21A	NOR	92094-69	2220	2220	Cuttings	Clyst, med gy + 10% Clyst, lt gy, calc + mnr Clyst, med yel brn
34/7-21A	NOR	92094-70	2240	2240	Cuttings	Clyst, med gy + mnr Clyst, lt gy, calc
34/7-21A	NOR	92094-71	2260	2260	Cuttings	Clyst, med gy + mnr Clyst, grn gy + mnr Clyst, dk yel brn
34/7-21A	NOR	92094-72	2280	2280	Cuttings	Clyst, med gy + mnr Clyst, dk yel brn + tr Lst, v lt gy
34/7-21A	NOR	92094-73	2300	2300	Cuttings	Clyst, med gy + 10% Clyst, dk gy + tr Cmt
34/7-21A	NOR	92094-74	2320	2320	Cuttings	Clyst, med gy, calc
34/7-21A	NOR	92094-75	2340	2340	Cuttings	Clyst, med gy + mnr Clyst, dk gy
34/7-21A	NOR	92094-76	2360	2360	Cuttings	Clyst, med gy + 10% Clyst, dk gy
34/7-21A	NOR	92094-77	2380	2380	Cuttings	Clyst, med dk gy
34/7-21A	NOR	92094-78	2400	2400	Cuttings	Clyst, med dk gy + 30% Clyst, med gy + tr Lst, v lt gy
34/7-21A	NOR	92094-79	2420	2420	Cuttings	Clyst, med dk gy + mnr Clyst, med lt gy
34/7-21A	NOR	92094-80	2440	2440	Cuttings	Clyst, med dk gy + tr Lst, v lt gy
34/7-21A	NOR	92094-81	2460	2460	Cuttings	Clyst, med dk gy + 10% Clyst, dk gy + mnr Lst, v lt gy
34/7-21A	NOR	92094-82	2480	2480	Cuttings	Clyst, med gy, slty + tr Lst, v lt gy
34/7-21A	NOR	92094-83	2500	2500	Cuttings	Clyst, med gy, slty
34/7-21A	NOR	92094-84	2520	2520	Cuttings	Clyst, med dk gy, slty + mnr Lst, v lt gy + tr Sh, v dsky rd
34/7-21A	NOR	92094-86	2560	2560	Cuttings	Clyst, med dk gy, slty + mnr Clyst, lt gy
34/7-21A	NOR	92094-87	2580	2580	Cuttings	Clyst, med dk gy, sndy + 20% Sd + tr Lst, v lt gy
34/7-21A	NOR	92094-88	2600	2600	Cuttings	Clyst, med dk gy, sndy + mnr Clyst, dk gy + mnr Lst, v lt gy
34/7-21A	NOR	92094-89	2620	2620	Cuttings	Clyst, med dk gy + mnr Sd + mnr Lst, v lt gy
34/7-21A	NOR	92094-90	2640	2640	Cuttings	Clyst, med dk gy + 20% Sd + tr Lst, v lt gy
34/7-21A	NOR	92094-91	2660	2660	Cuttings	Clyst, med dk gy + 20% Sst, v lt gy, calc + tr Sh, v dsky rd + tr Pyr
34/7-21A	NOR	92094-92	2680	2680	Cuttings	Clyst, med dk gy + 10% Sst, v lt gy, calc + tr Lst, v lt gy, calc
34/7-21A	NOR	92094-93	2700	2700	Cuttings	Clyst, med dk gy + 10% Lst, v lt gy + tr Mic
34/7-21A	NOR	92094-94	2709	2709	Cuttings	Clyst, med dk gy + mnr Lst, v lt gy + tr Mic
34/7-21A	NOR	92094-95	2718	2718	Cuttings	Clyst, med dk gy + mnr Lst, v lt gy + tr Mic
34/7-21A	NOR	92094-96	2727	2727	Cuttings	Clyst, med dk gy + 10% Gyp + tr Sh, v dsky rd
34/7-21A	NOR	92094-97	2736	2736	Cuttings	Clyst, med dk gy + 20% Clyst, lt gy + mnr Gyp
34/7-21A	NOR	92094-98	2745	2745	Cuttings	Clyst, med gy + 10% Clyst, lt gy + mnr Gyp + tr Cmt + tr Sh, med yel brn
34/7-21A	NOR	92094-99	2754	2754	Cuttings	Clyst, med gy + mnr Sst, lt gy + mnr Gyp + tr Sh, v dsky rd
34/7-21A	NOR	92094-100	2763	2763	Cuttings	Clyst, med gy + 10% Gyp + mnr Sst, v lt gy + tr Clyst, grn gy
34/7-21A	NOR	92094-101	2772	2772	Cuttings	Clyst, med gy, calc + mnr Sst, v lt gy + mnr Clyst, med yel brn
34/7-21A	NOR	92094-102	2781	2781	Cuttings	Clyst, med gy, slty + 10% Clyst, dk gy, slty + tr Dol, lt gy
34/7-21A	NOR	92094-103	2790	2790	Cuttings	Clyst, med gy, slty + 10% Clyst, dk gy, slty + mnr Dol, lt gy

Well	Nation	Sample ID	Upper Depth	Lower Depth	Sample Type	Lithology
34/7-21A	NOR	91094-104	2799	2799	Cuttings	Clyst, med gy + mnr Clyst, dk gy, + mnr Clyst, v dsky rd
34/7-21A	NOR	92094-105	2808	2808	Cuttings	Clyst, med lt gy + 10% Clyst, dk gy, + mnr Lst, lt gy
34/7-21A	NOR	92094-106	2817	2817	Cuttings	Clyst, med gy + mnr Clyst, med yel brn + mnr Lst, v lt gy
34/7-21A	NOR	92094-107	2826	2826	Cuttings	Clyst, med dk gy + 10% Clyst, lt gy + tr Lst, v lt gy + tr Sh, v dsky rd
34/7-21A	NOR	92094-108	2835	2835	Cuttings	Clyst, dk gy + 10% Clyst, lt gy + tr Lst, v lt gy
34/7-21A	NOR	92094-109	2844	2844	Cuttings	Clyst, dk gy + 30% Sd + mnr Lst, v lt gy + tr Sh, v dsky rd
34/7-21A	NOR	92094-110	2919	2919	Cuttings	Clyst, dk gy + 30% Clyst, v dsky rd + 10% Sd + 10% Clyst, lt gy, calc + mnr Lst, v lt gy
34/7-21A	NOR	92094-111	2928	2928	Cuttings	Clyst, med dk gy + 20% Clyst, v dsky rd + 10% Sd + 10% Clyst, gy blk + mnr Lst, wh
34/7-21A	NOR	92094-112	2937	2937	Cuttings	Clyst, lt med gy + 10% Clyst, olv blk, calc + 10% Clyst, v dsky rd + 10% Lst, v lt gy + mnr Sd
34/7-21A	NOR	92094-113	2946	2946	Cuttings	Clyst, lt med gy + 30% Clyst, olv blk, calc + 10% Clyst, med yel brn + mnr Lst, v lt gy + mnr Sd
34/7-21A	NOR	92094-114	2955	2955	Cuttings	Clyst, lt olv gy + 20% Clyst, olv blk, calc + mnr Clyst, med yel brn + mnr Sd + tr Lst, v lt gy
34/7-21A	NOR	92094-115	2964	2964	Cuttings	Clyst, lt gy + 30% Clyst, olv blk, calc + tr Lst, v lt gy + tr Clyst, med rd brn
34/7-21A	NOR	92094-116	2973	2973	Cuttings	Clyst, olv gy, calc + 30% Clyst, lt gy + tr Lst, v lt gy
34/7-21A	NOR	92094-117	2982	2982	Cuttings	Clyst, olv gy, calc + 20% Sd + 10% Clyst, lt gy + tr Lst, wh
34/7-21A	NOR	92094-118	3000	3000	Cuttings	Clyst, olv gy, calc + 30% Clyst, lt gy + 10% Sd + mnr Cmt
34/7-21A	NOR	92094-119	3018	3018	Cuttings	Clyst, olv gy, calc + 10% Clyst, lt gy + mnr Sd + tr Sh, v dsky rd
34/7-21A	NOR	92094-120	3036	3036	Cuttings	Clyst, olv gy, calc + 20% Clyst, lt gy + tr Clyst, med yel brn.
34/7-21A	NOR	92094-121	3054	3054	Cuttings	Clyst, olv gy + 30% Clyst, lt gy + 10% Lst, v lt gy+ tr Clyst, med yel brn.
34/7-21A	NOR	92094-122	3069	3069	Cuttings	Clyst, lt gy + 40% Clyst, dk gy + tr Lst, v lt gy
34/7-21A	NOR	92094-123	3087	3087	Cuttings	Clyst, lt gy + 10% Clyst, dk gy + tr Clyst, wh + tr Clyst, pa rd
34/7-21A	NOR	92094-124	3105	3105	Cuttings	Clyst, lt med gy + 10% Clyst, dk gy + tr Lst, lt gy
34/7-21A	NOR	92094-125	3123	3123	Cuttings	Clyst, lt med gy + 20% Clyst, dk gy + mnr Cmt + tr Clyst, pa rd
34/7-21A	NOR	92094-126	3141	3141	Cuttings	Clyst, dk gy + 20% Clyst, lt med gy + mnr Lst, v lt gy
34/7-21A	NOR	92094-127	3159	3159	Cuttings	Clyst, med dk gy + 20% Clyst, lt med gy
34/7-21A	NOR	92094-128	3177	3177	Cuttings	Clyst, lt med gy + 30% Clyst, dk gy + 10% Lst, v lt gy + tr Clyst, med rd brn
34/7-21A	NOR	92094-129	3195	3195	Cuttings	Clyst, med gy + 30% Clyst, dk gy + tr Lst, v lt gy

Well	Nation	Sample Name	Upper Depth	Lower Depth	Sample	Lith	S1 mg/g	S2 mg/g	S3 mg/g	Tmax deg C	TOC Wt %	HI	OI	PI	PP mg/g
34/7-21	NOR	92094-2A	1430.0	1440.0	CUT	Clyst	0.10	0.27	1.33	*	0.41	66	324	0.27	0.37
34/7-21	NOR	92094-4A	1510.0	1520.0	CUT	Clyst	0.05	0.14	0.89	*	0.49	29	182	0.26	0.19
34/7-21	NOR	92094-10A	1750.0	1760.0	CUT	Clyst	0.07	0.23	1.44	*	0.54	43	267	0.23	0.30
34/7-21	NOR	92094-12A	1820.0	1830.0	CUT	Clyst	0.05	0.06	0.98	*	0.40	15	245	0.45	0.11
34/7-21	NOR	92094-13A	1830.0	1840.0	CUT	Clyst	0.06	0.09	0.79	*	0.46	20	172	0.40	0.15
34/7-21	NOR	92094-14A	1840.0	1850.0	CUT	Clyst	0.06	0.13	0.81	415	0.49	27	165	0.32	0.19
34/7-21	NOR	92094-20A	1930.0	1940.0	CUT	Clyst	0.13	0.10	2.05	*	0.46	22	446	0.57	0.23
34/7-21	NOR	92094-22A	2010.0	2020.0	CUT	Clyst	0.12	0.26	1.69	416	0.62	42	273	0.32	0.38
34/7-21	NOR	92094-24A	2090.0	2100.0	CUT	Clyst	0.15	0.36	1.72	420	0.66	55	261	0.29	0.51
34/7-21	NOR	92094-28A	2250.0	2260.0	CUT	Clyst	0.13	0.35	1.95	414	0.61	57	320	0.27	0.48
34/7-21	NOR	92094-29A	2280.0	2290.0	CUT	Clyst	0.15	0.51	0.76	425	0.77	66	99	0.23	0.66
34/7-21	NOR	92094-30A	2300.0	2310.0	CUT	Clyst	0.19	0.71	0.99	429	0.82	87	121	0.21	0.90
34/7-21	NOR	92094-31A	2320.0	2330.0	CUT	Clyst	0.26	1.01	1.29	432	0.94	107	137	0.20	1.27
34/7-21	NOR	92094-33A	2360.0	2370.0	CUT	Clyst	0.31	1.21	1.09	430	0.95	127	115	0.20	1.52
34/7-21	NOR	92094-35A	2400.0	2410.0	CUT	Clyst	0.43	1.83	2.88	430	1.12	163	257	0.19	2.26
34/7-21	NOR	92094-37A	2440.0	2450.0	CUT	Clyst	0.20	1.49	1.87	433	1.07	139	175	0.12	1.69
34/7-21	NOR	92094-39A	2460.0	2470.0	CUT	Clyst	0.15	0.90	1.76	431	0.96	94	183	0.14	1.05
34/7-21	NOR	92094-43A	2500.0	2510.0	CUT	Clyst	0.64	1.76	2.88	431	0.89	198	324	0.27	2.40
34/7-21	NOR	92094-142	2547.9	2547.9	CCP	Clyst	1.44	14.62	0.29	425	4.00	366	7	0.09	16.06
34/7-21	NOR	92094-144	2552.6	2552.6	CCP	Clyst	2.35	22.57	0.48	420	6.03	374	8	0.09	24.92
34/7-21	NOR	92094-145	2554.5	2554.5	CCP	Clyst	1.47	19.29	0.46	421	5.42	356	8	0.07	20.76
34/7-21	NOR	92094-146	2555.9	2555.9	CCP	Clyst	1.37	20.26	0.59	418	5.80	349	10	0.06	21.63
34/7-21	NOR	92094-147	2558.0	2558.0	CCP	Clyst	1.59	29.34	0.49	423	7.59	387	6	0.05	30.93
34/7-21	NOR	92094-148	2560.0	2560.0	CCP	Clyst	1.72	23.95	0.47	420	6.69	358	7	0.07	25.67
34/7-21	NOR	92094-149	2561.8	2561.8	CCP	Clyst	1.63	23.60	0.41	421	6.23	379	7	0.06	25.23
34/7-21	NOR	92094-150	2563.2	2563.2	CCP	Clyst	2.04	25.69	0.46	419	6.99	368	7	0.07	27.73
34/7-21	NOR	92094-155	2570.6	2570.6	CCP	Clyst	4.06	36.27	0.58	423	10.10	359	6	0.10	40.33

Well	Nation	Sample Name	Upper Depth	Lower Depth	Sample	Lith	S1 mg/g	S2 mg/g	S3 mg/g	Tmax deg C	TOC Wt %	HI	OI	PI	PP mg/g
34/7-21	NOR	92094-156	2574.6	2574.6	CCP	Clyst	1.54	15.26	0.43	416	5.79	264	7	0.09	16.80
34/7-21	NOR	92094-157	2578.5	2578.5	CCP	Clyst	1.02	14.82	0.53	421	5.86	253	9	0.06	15.84
34/7-21	NOR	92094-158	2580.0	2580.0	CCP	Clyst	0.77	10.27	0.70	413	5.13	200	14	0.07	11.04
34/7-21	NOR	92094-159	2584.5	2584.5	CCP	Clyst	1.52	22.66	1.08	418	11.50	197	9	0.06	24.18
34/7-21	NOR	92094-161	2587.9	2587.9	CCP	Clyst	7.17	19.13	0.76	425	10.80	177	7	0.27	26.30
34/7-21	NOR	92094-44A	2594.0	2603.0	CUT	Clyst	0.49	3.26	2.69	430	2.12	154	127	0.13	3.75
34/7-21	NOR	92094-46A	2612.0	2621.0	CUT	Clyst	0.44	7.88	2.31	431	2.66	296	87	0.05	8.32
34/7-21	NOR	92094-47A	2621.0	2630.0	CUT	Clyst	0.26	4.45	1.29	432	1.91	233	68	0.06	4.71
34/7-21	NOR	92094-49A	2639.0	2648.0	CUT	Clyst	0.22	2.94	1.74	434	2.03	145	86	0.07	3.16
34/7-21	NOR	92094-50A	2648.0	2657.0	CUT	Clyst	0.33	4.19	1.61	433	3.25	129	50	0.07	4.52
34/7-21	NOR	92094-53A	2675.0	2684.0	CUT	Clyst	0.34	2.68	3.06	435	2.98	90	103	0.11	3.02
34/7-21	NOR	92094-54A	2684.0	2693.0	CUT	Clyst	0.40	2.01	2.03	432	2.61	77	78	0.17	2.41
34/7-21	NOR	92094-55A	2693.0	2702.0	CUT	Clyst	1.45	9.87	1.64	424	8.02	123	20	0.13	11.32
34/7-21	NOR	92094-59A	2801.0	2810.0	CUT	Clyst	0.17	1.44	2.92	435	1.49	97	196	0.11	1.61
34/7-21	NOR	92094-61A	2855.0	2864.0	CUT	Clyst	0.19	2.41	2.01	436	2.14	113	94	0.07	2.60
34/7-21	NOR	92094-65A	2962.0	2971.0	CUT	Clyst	0.26	5.60	2.15	441	2.10	267	102	0.04	5.86

TOC & ROCK EVAL PYROLYSIS DATA Table 11

Well	Nation	Sample Name	Upper Depth	Lower Depth	Sample	Lith	S1 mg/g	S2 mg/g	S3 mg/g	Tmax deg C	TOC Wt %	HI	OI	PI	PP mg/g
34/7-21A	NOR	92094-74A	2310.0	2320.0	CUT	Clyst	0.29	1.46	0.77	*	0.60	243	128	0.17	1.75
34/7-21A	NOR	92094-76A	2350.0	2360.0	CUT	Clyst	0.49	2.42	0.78	*	0.99	244	79	0.17	2.91
34/7-21A	NOR	92094-78A	2390.0	2400.0	CUT	Clyst	0.58	2.75	0.96	*	0.97	284	99	0.17	3.33
34/7-21A	NOR	92094-80A	2430.0	2440.0	CUT	Clyst	0.50	2.53	0.96	*	0.87	291	110	0.17	3.03
34/7-21A	NOR	92094-83A	2490.0	2500.0	CUT	Clyst	0.42	2.10	0.78	*	0.95	221	82	0.17	2.52
34/7-21A	NOR	92094-84A	2510.0	2520.0	CUT	Clyst	0.53	2.29	0.95	*	0.86	266	110	0.19	2.82
34/7-21A	NOR	92094-86A	2550.0	2560.0	CUT	Clyst	0.34	1.76	0.69	*	0.94	187	73	0.16	2.10
34/7-21A	NOR	92094-89A	2610.0	2620.0	CUT	Clyst	0.39	2.13	0.76	*	0.90	237	84	0.15	2.52
34/7-21A	NOR	92094-91A	2650.0	2660.0	CUT	Clyst	0.75	3.61	1.05	*	1.21	298	87	0.17	4.36
34/7-21A	NOR	92094-92A	2670.0	2680.0	CUT	Clyst	0.64	3.39	1.12	*	1.16	292	97	0.16	4.03
34/7-21A	NOR	92094-97A	2727.0	2736.0	CUT	Clyst	0.43	2.09	1.25	*	0.89	235	140	0.17	2.52
34/7-21A	NOR	92094-100A	2754.0	2763.0	CUT	Clyst	0.33	1.77	1.19	*	0.84	211	142	0.16	2.10
34/7-21A	NOR	92094-103A	2781.0	2790.0	CUT	Clyst	0.40	2.26	1.01	*	0.84	269	120	0.15	2.66
34/7-21A	NOR	92094-109A	2835.0	2844.0	CUT	Clyst	0.41	2.10	1.05	*	0.87	241	121	0.16	2.51
34/7-21A	NOR	92094-165	2848.5	2848.5	CCP	Clyst, sdy	0.99	1.53	0.65	423	1.06	144	61	0.39	2.52
34/7-21A	NOR	92094-166	2849.6	2849.6	CCP	Sst, arg	2.09	2.07	0.30	419	0.82	252	37	0.50	4.16
34/7-21A	NOR	92094-167	2853.4	2853.4	CCP	Clyst, rd	0.24	0.01	0.49	*	0.17	6	288	0.96	0.25
34/7-21A	NOR	92094-168	2855.5	2855.5	CCP	Lst, arg	7.77	6.02	0.42	429	1.85	325	23	0.56	13.79
34/7-21A	NOR	92094-169	2857.3	2857.3	CCP	Lst, arg	8.06	7.31	0.32	434	2.19	334	15	0.52	15.37
34/7-21A	NOR	92094-175	2882.8	2882.8	CCP	Clyst/Sh	2.72	26.86	0.63	428	6.17	435	10	0.09	29.58
34/7-21A	NOR	92094-179	2899.6	2899.6	CCP	Clyst	2.29	17.84	0.39	423	4.98	358	8	0.11	20.13
34/7-21A	NOR	92094-180	2901.4	2901.4	CCP	Clyst	2.14	16.33	0.41	423	4.46	366	9	0.12	18.47
34/7-21A	NOR	92094-182	2905.7	2905.7	CCP	Clyst	1.88	22.67	0.49	422	6.24	363	8	0.08	24.55
34/7-21A	NOR	92094-111A	2919.0	2928.0	CUT	Clyst	0.39	2.52	0.48	425	0.72	350	67	0.13	2.91
34/7-21A	NOR	92094-184	2943.5	2943.5	CCP	Clyst	1.38	19.89	0.42	424	5.63	353	7	0.06	21.27
34/7-21A	NOR	92094-185	2945.7	2945.7	CCP	Clyst	1.68	19.40	0.80	421	5.50	353	15	0.08	21.08
34/7-21A	NOR	92094-113A	2937.0	2946.0	CUT	Clyst	0.78	6.80	0.78	424	1.98	343	39	0.10	7.58

TOC & ROCK EVAL PYROLYSIS DATA Table 11

Well	Nation	Sample Name	Upper Depth	Lower Depth	Sample	Lith	S1 mg/g	S2 mg/g	S3 mg/g	Tmax deg C	TOC Wt %	HI	OI	PI	PP mg/g
34/7-21A	NOR	92094-186	2947.5	2947.5	CCP	Clyst	1.59	22.87	0.49	421	6.44	355	8	0.07	24.46
34/7-21A	NOR	92094-187	2949.5	2949.5	CCP	Clyst	1.58	19.79	0.49	422	5.92	334	8	0.07	21.37
34/7-21A	NOR	92094-114A	2946.0	2955.0	CUT	Clyst	0.31	2.96	0.95	426	1.19	249	80	0.09	3.27
34/7-21A	NOR	92094-115A	2964.0	2973.0	CUT	Clyst	2.82	24.85	1.08	421	5.51	451	20	0.10	27.67
34/7-21A	NOR	92094-119A	3009.0	3018.0	CUT	Clyst	1.30	8.76	1.13	423	3.70	237	31	0.13	10.06
34/7-21A	NOR	92094-123A	3078.0	3087.0	CUT	Clyst	0.60	4.57	0.84	426	1.85	247	45	0.12	5.17
34/7-21A	NOR	92094-125A	3114.0	3123.0	CUT	Clyst	0.70	7.06	1.02	427	2.21	319	46	0.09	7.76
34/7-21A	NOR	92094-127A	3150.0	3159.0	CUT	Clyst	0.50	4.96	1.14	431	1.76	282	65	0.09	5.46
34/7-21A	NOR	92094-129A	3186.0	3195.0	CUT	Clyst	0.23	1.82	1.21	430	1.07	170	113	0.11	2.05

GENERAL DATA			MATURITY DATA		KEROGEN COMPOSITION DATA						
SAMPLE DEPTH (Metres)	SAMPLE TYPE	ANALYSED LITHOLOGY	SPORE COLOUR INDEX	VITR. REFL. R oil av %	% (Visual, from microscopy)			% (Calculated)			
					INERTINITE	VITRINITE	SAPROPEL	INERT	VIT	ALG SAP	WXY SAP
1400	Ctgs	CLYST, ol-gy+ 10% ANH+ mn+ CLYST, yel-gy									
	P	CLYST		1.19(2)R							
1520	Ctgs	CLYST, ol-gy+ tr CLYST, yel-gy									
	P	CLYST		1.12(1)R 1.36(1)R							
1600	Ctgs	CLYST, ol-gy+ mn+ CLYST, v lt gy									
	P	CLYST		.74(2)R							
1680	Ctgs	CLYST, ol-gy+ mn+ LST, v lt gy									
	P	CLYST		*							
1760	Ctgs	CLYST, ol-gy+ 20% CLYST, ol-blk+ 10% CLYST, mod brn+ tr LST, v lt gy									
	P	CLYST		.36(5) .81(5)R							
1840	Ctgs	CLYST, lt ol-gy+ 30% CLYST, ol-gy+ mn+ LST, v lt gy									
	P	CLYST		*							
1890.00	Swc	CLYST									
				.42(1) .66(2)R .96(4)R 1.49(6)R							
1896.50	Swc	CLYST									
				.40(1) .55(2)R .93(7)R 1.30(25)R							
1940	Ctgs	CLYST, med gy, calc + 20% CLYST, dk gy, calc+ tr LST, wht									
	P	CLYST		.41(1) .52(2)R .90(13)R 1.25(18)R							
2020	Ctgs	CLYST, med gy, calc + 10% CLYST, dk gy, calc+ tr LST, wht									

MATURITY AND KEROGEN COMPOSITION DATA

Table 12

GENERAL DATA			MATURITY DATA		KEROGEN COMPOSITION DATA						
SAMPLE DEPTH (Metres)	SAMPLE TYPE	ANALYSED LITHOLOGY	SPORE COLOUR INDEX	VITR. REFL. R oil av %	% (Visual, from microscopy)			% (Calculated)			
					INERTINITE	VITRINITE	SAPROPEL	INERT	VIT	ALG SAP	WXY SAP
2020	P	CLYST		.42(3) .77(5)R .97(5)R 1.23(2)R							
2100	Ctgs	CLYST, med gy, calc + 10% CLYST, dk gy+ tr LST, wht									
	P	CLYST		.46(3) .61(3)R .82(9)R 1.03(8)R							
2180	Ctgs	CLYST, med gy+ 30% CLYST, gy-red+ 10% CLYST, dk gy+ tr LST v lt gy									
	P	CLYST		.47(2) .95(4)R 1.32(1)R							
2260	Ctgs	CLYST, med-dk gy+ tr ANH									
	P	CLYST		.45(1) .57(3)R 1.00(7)R 1.20(2)R							
2330	Ctgs	CLYST, med gy, calc + mnr LST, v lt gy									
	P	CLYST		.44(1) .66(4)R .93(11)R 1.30(11)R							
2410	Ctgs	CLYST, med gy+ 10% CLYST, dk gy+ tr LST wht+ tr LCM									
	P	CLYST		.48(7) .61(9)R .76(4)R .98(3)R							
2510	Ctgs	CLYST, med gy, calc + 20% LST, wht+ 10% CLYST, mod brn, calc + 10% CLYST, dk gy, calc									
	P	CLYST		.57(2)R .97(1)R 1.16(1)R 1.49(1)R							
2549.00	Core	CLYST		.41(5) .66(3)R .92(1)R							
2558.0	Core	CLYST	3.0		5	Mnr	95				

MATURITY AND KEROGEN COMPOSITION DATA

Table 12

GENERAL DATA			MATURITY DATA		KEROGEN COMPOSITION DATA						
SAMPLE DEPTH (Metres)	SAMPLE TYPE	ANALYSED LITHOLOGY	SPORE COLOUR INDEX	VITR. REFL. R oil av %	% (Visual, from microscopy)			% (Calculated)			
					INERTINITE	VITRINITE	SAPROPEL	INERT	VIT	ALG SAP	WXY SAP
2565.00	Core	CLYST	3.0	.44(25) .66(8)R .91(20)R	30	35	35				
2584.5	Core	CLYST									
2586.00	Core	CLYST									
				.41(28) .67(11)R .80(7)R 1.04(7)R							
2591.00	Core	CLYST		.52(15) .68(14)R 1.02(15)R 1.38(6)R							
2606.50	Swc	CLYST		.45(15) .79(23)R 1.04(10)R 1.44(7)R							
2693	Ctgs	CLYST, dk gy+ 20% ANH+ 10% CLYST, gy-blk+ mnr SND									
	P	CLYST		.60(9)R .75(6)R 1.00(5)R							
2810	Ctgs	CLYST, med-lt gy+ 20% COAL+ 10% SST, wht									
	P	CLYST		.57(5)R .94(6)R							
2864	Ctgs	CLYST, ol-gy+ 30% COAL+ mnr SST, wht									
	P	CLYST		.62(55)							
2971	Ctgs	CLYST, med-dk gy+ 20% CLYST, gy-blk+ mnr LST, v lt gy									
	P	CLYST		.49(20) .62(9)R							
3014	Ctgs	CLYST, med-dk gy+ 10% CLYST, gy-blk+ mnr CLYST, lt ol-gy + tr LST, wht									
	P	CLYST		.44(1) .61(8)R .73(6)R .94(1)R							

MATURITY AND KEROGEN COMPOSITION DATA

Table 12

GENERAL DATA			MATURITY DATA		KEROGEN COMPOSITION DATA						
SAMPLE DEPTH (Feet)	SAMPLE TYPE	ANALYSED LITHOLOGY	SPORE COLOUR INDEX	VITR. REFL. R oil av %	X (Visual, from microscopy)			X (Calculated)			
					INERTINITE	VITRINITE	SAPROPEL	INERT	VIT	ALG SAP	WXY SAP
2320	Ctgs	CLYST, med gy, calc									
	P	CLYST		*							
2440	Ctgs	CLYST, med-dk gy+ tr LST, v lt gy									
	P	CLYST		.51(1) .86(5)R 1.22(5)R							
2520	Ctgs	CLYST, med gy, slty + mnr LST, v lt gy+ tr SH, v dsk red									
	P	CLYST		.73(11)R 1.04(10)R 1.42(4)R							
2620	Ctgs	CLYST, med-dk gy+ mnr SND+ tr LST, v lt gy									
	P	CLYST		.76(16)R .92(10)R 1.08(9)R 1.32(4)R							
2736	Ctgs	CLYST, med-dk gy+ 20% CLYST, lt gy+ mnr GYP									
	P	CLYST		.70(7)R 1.02(11)R 1.18(4)R 1.75(4)R							
2844	Ctgs	CLYST, dk gy+ 30% SND, crs+ mnr LST, v lt gy+ tr SH, v dsk red									
	P	CLYST		.59(1)R .76(13)R 1.00(12)R 1.22(14)R							
2849.60	Core	CLYST		.99(6)R 1.37(7)R							
2882.8	Core	CLYST	2.5-3.0		5	Mnr	95				
				.40(11) .56(8)R .79(17)R 1.11(11)R							
2901.40	Core	CLYST		.49(1) .56(4)R .72(3)R 1.02(14)R							

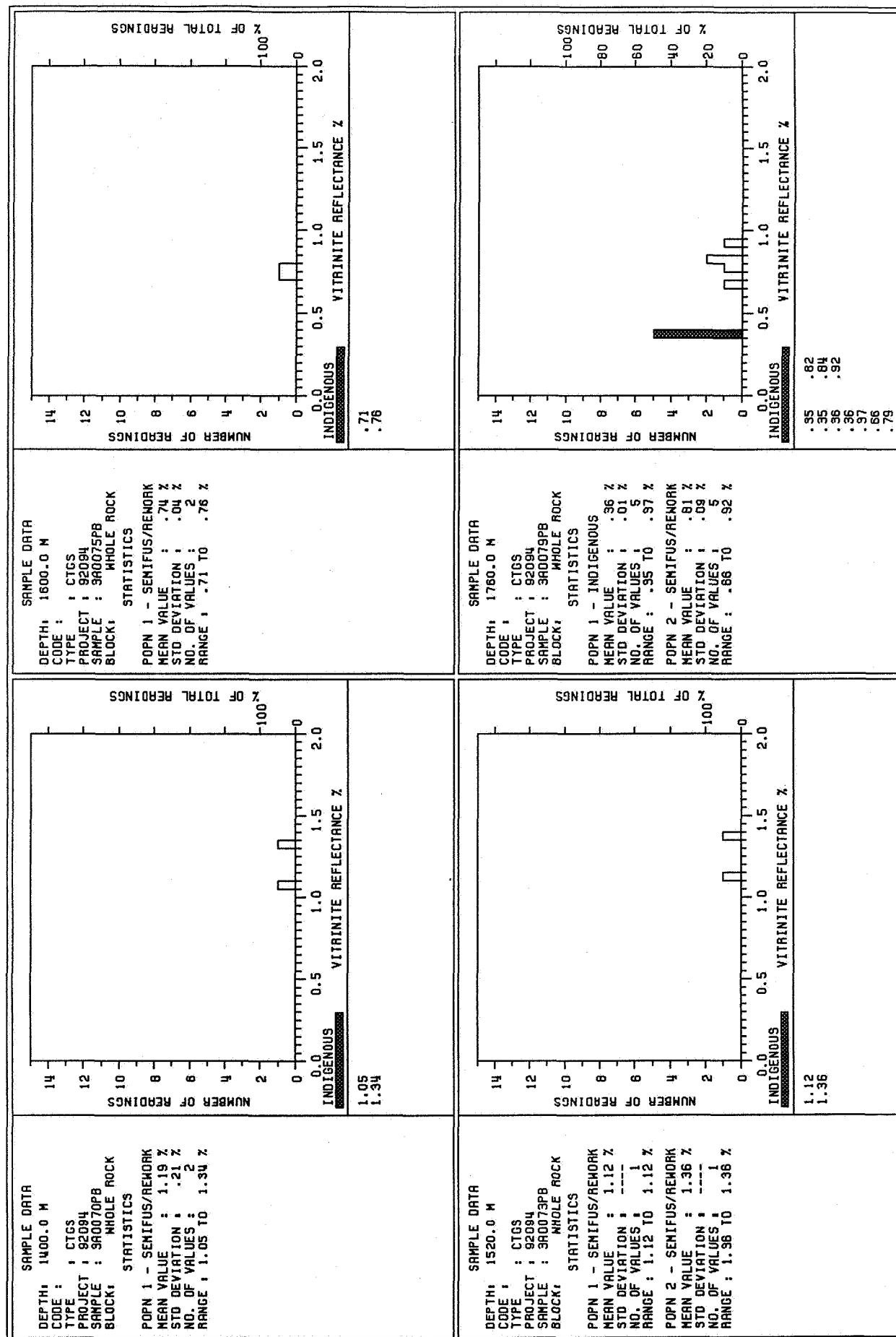
MATURITY AND KEROGEN COMPOSITION DATA

Table 12

GENERAL DATA			MATURITY DATA		KEROGEN COMPOSITION DATA						
SAMPLE DEPTH (Feet)	SAMPLE TYPE	ANALYSED LITHOLOGY	SPORE COLOUR INDEX	VITR. REFL. R oil av %	% (Visual, from microscopy)			% (Calculated)			
					INERTINITE	VITRINITE	SAPROPEL	INERT	VIT	ALG SAP	WXY SAP
2905.0	Core	CLYST	3.0		5	Mnr	95				
2943.50	Core	CLYST		.38(2) .58(1)R .80(5)R 1.12(6)R							
2949.50	Core	CLYST		.43(30) .58(10)R .81(13)R 1.04(2)R							
2955	Ctgs	CLYST, lt ol-gy+ 20% CLYST, ol-blk, carb + mnr SND+ mnr CLYST mod yel-brn+ tr LST, v lt gy									
	P	CLYST		.77(6)R 1.02(15)R 1.37(13)R 1.70(1)R							
3018	Ctgs	CLYST, ol-blk, carb + 10% CLYST, lt gy+ mnr SND+ tr SH, v dsk red									
	P	CLYST		.61(1)R .87(2)R 1.33(1)R							
3123	Ctgs	CLYST, med-lt gy+ 20% CLYST, dk gy+ mnr CMT+ tr CLYST, pal red									
	P	CLYST		.48(6) .79(13)R 1.03(19)R 1.64(1)R							

MATURITY AND KEROGEN COMPOSITION DATA

Table 12



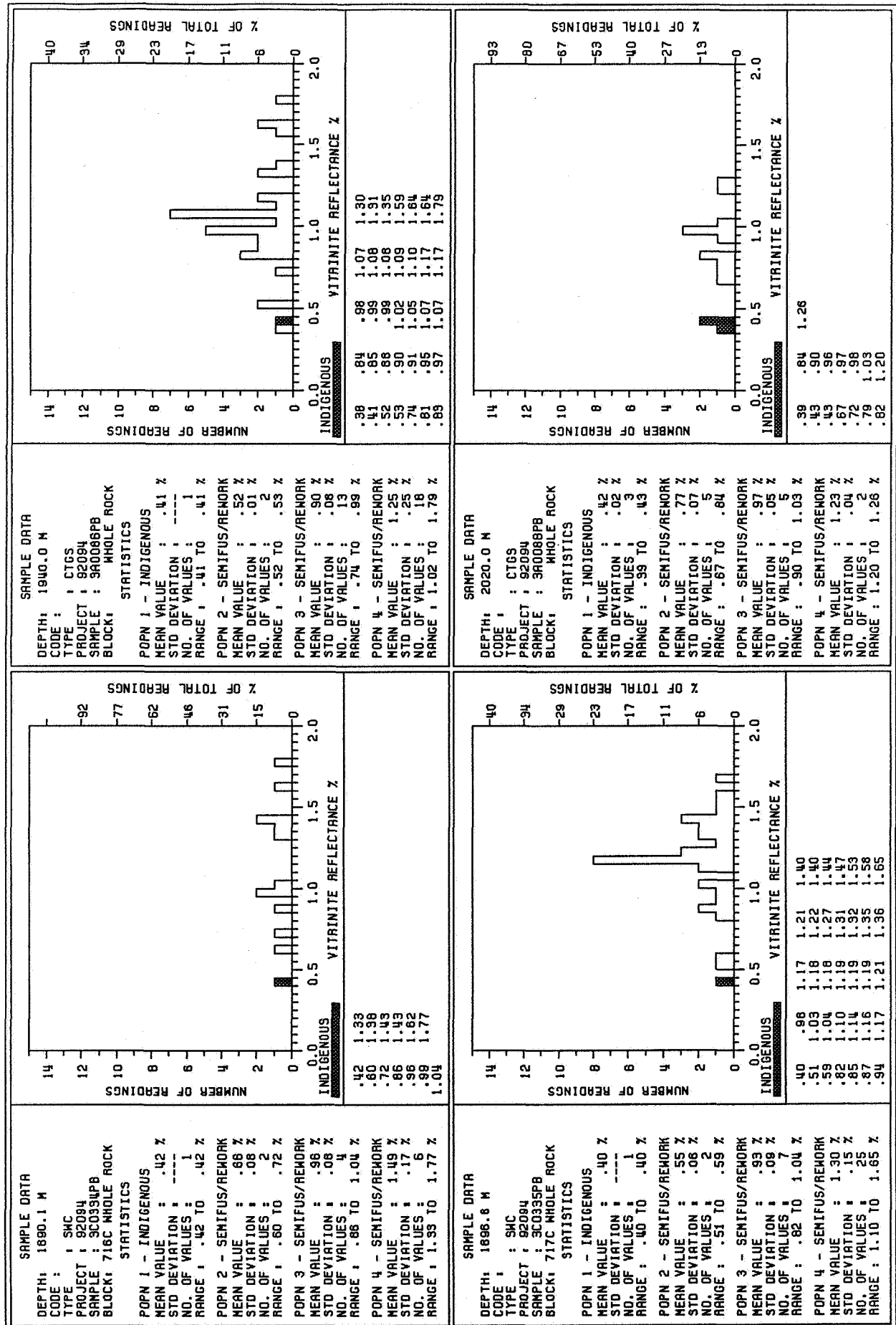
COMPANY : SAGA
WELL : 34/7-21
LOCATION : NORWEGIAN NORTH SEA

Figure 21

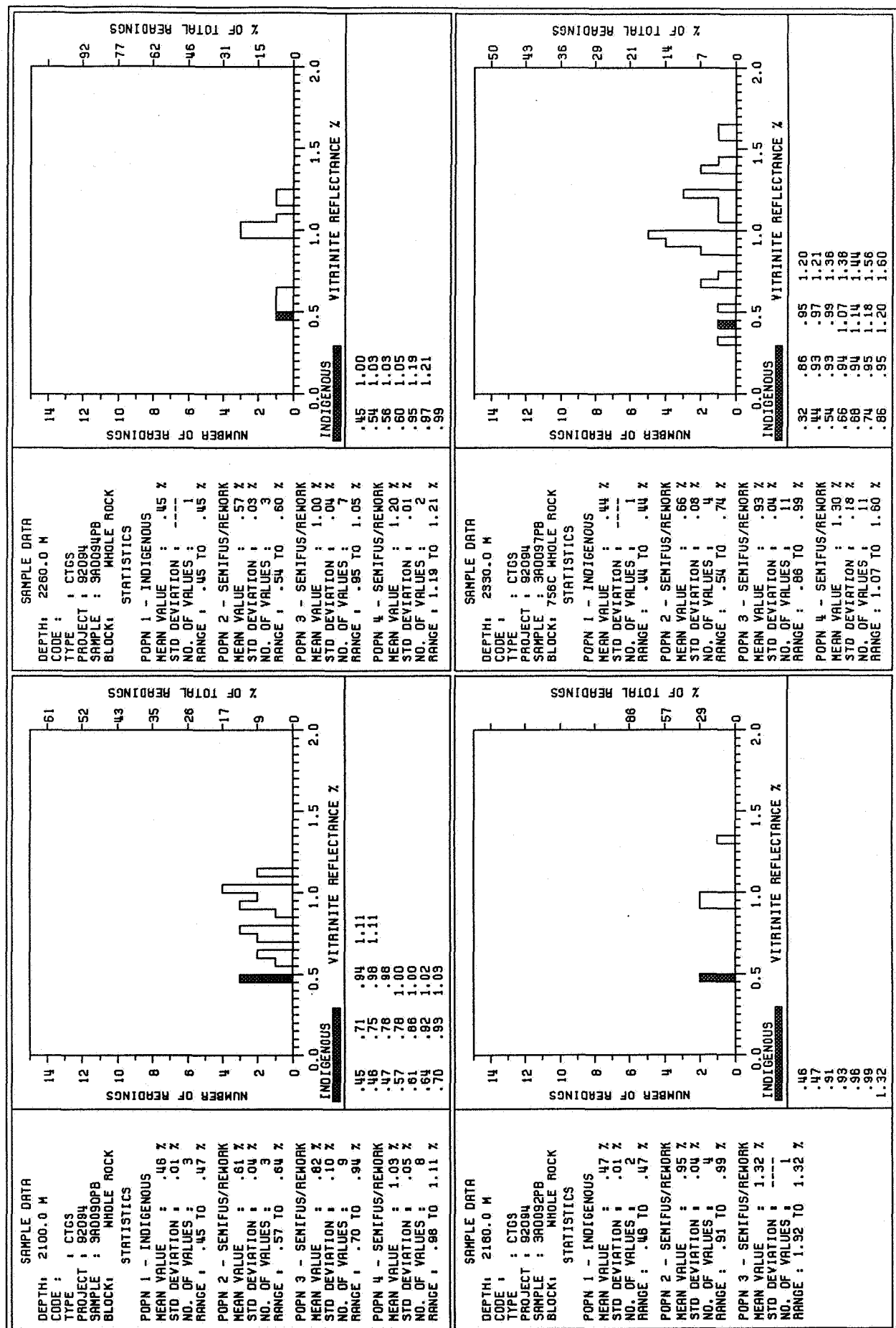
HISTOGRAMS, DATA AND STATISTICS
FOR VITRINITE REFLECTIVITY

COMPANY : SAGA
WELL : 34/7-21
LOCATION : NORWEGIAN NORTH SEA

Figure 21



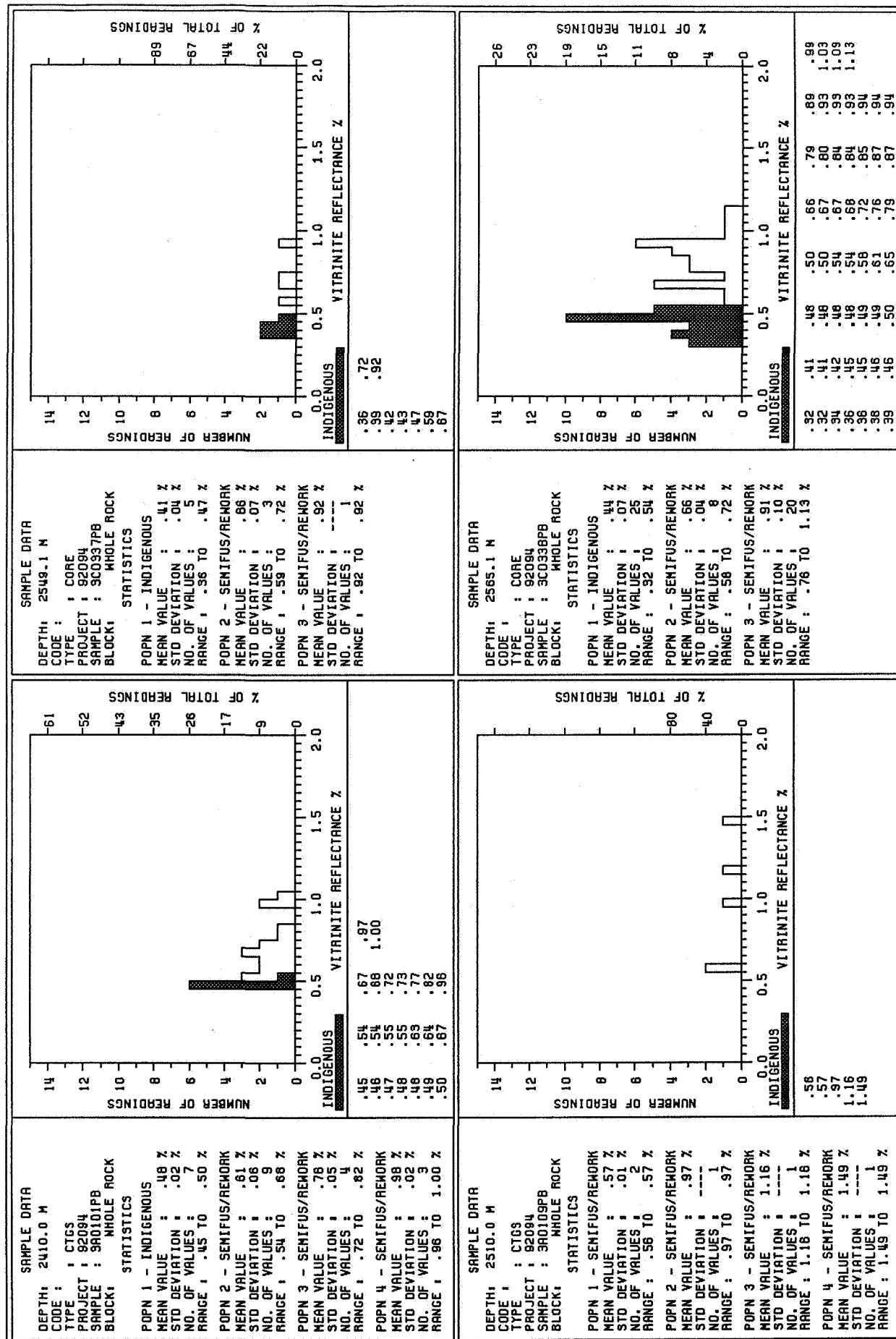
HISTOGRAMS, DATA AND STATISTICS
FOR VITRINITE REFLECTIVITY



COMPANY : SAGA
WELL : 34/7-21
LOCATION : NORWEGIAN NORTH SEA

Figure 21

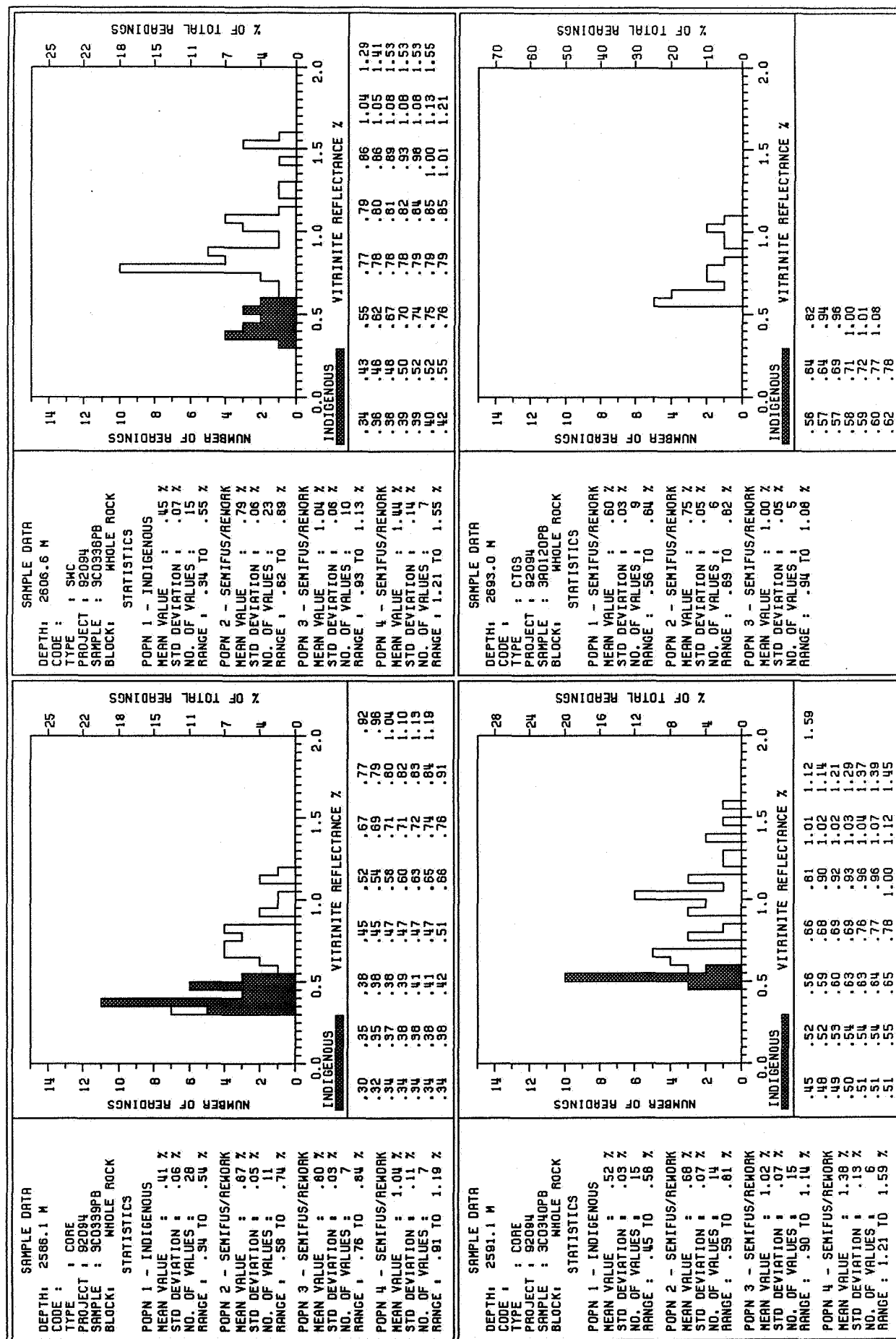
HISTOGRAMS, DATA AND STATISTICS
FOR VITRINITE REFLECTIVITY



COMPANY : SAGA
WELL : 34/7-21
LOCATION : NORWEGIAN NORTH SEA

Figure 21

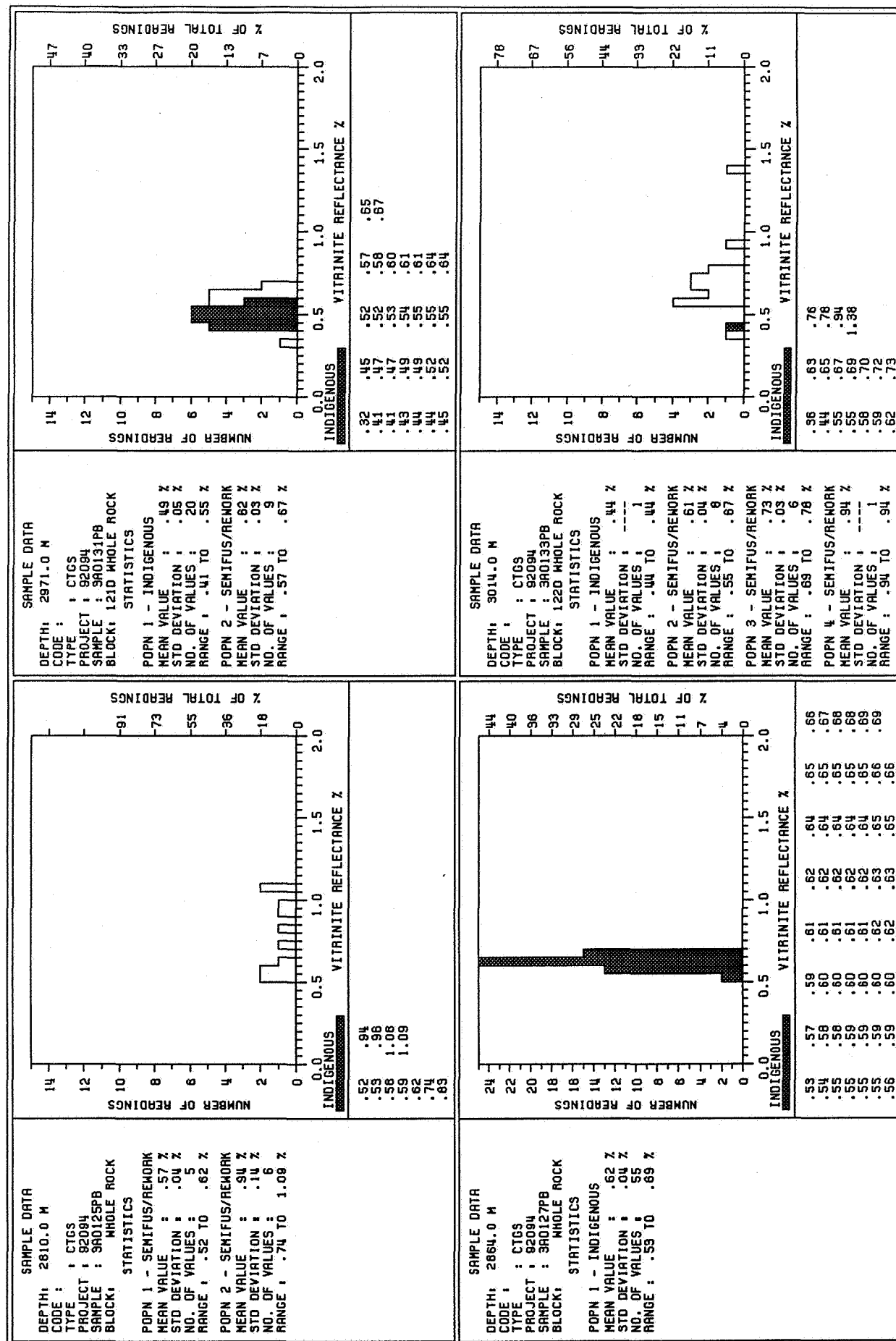
HISTOGRAMS, DATA AND STATISTICS
FOR VITRINITE REFLECTIVITY



COMPANY : SAGA
WELL : 34/7-21
LOCATION : NORWEGIAN NORTH SEA

HISTOGRAMS, DATA AND STATISTICS FOR VITRINITE REFLECTIVITY

Figure 21



COMPANY : SAGA
 WELL : 34/7-21
 LOCATION : NORWEGIAN NORTH SEA

Figure 21

HISTOGRAMS, DATA AND STATISTICS FOR VITRINITE REFLECTIVITY

Well name	Nation	Sample name	Upper depth	Lower depth	Sample type	Lith	Rock Wt (G)	EOM mg/g	SAT mg/g	ARO mg/g	NSO mg/g	ASPH mg/g
34/7-21	NOR	92094-35A	2400.00	2410.00	CUT	Clyst	15.0	1.1	0.2	0.2	0.4	0.3
34/7-21	NOR	92094-164	2498.50	2498.50	OIL	FMT	0.1	1000.0	514.5	322.1	148.1	15.3
34/7-21	NOR	92094-163	2510.50	2537.50	OIL	DST 1	0.1	1000.0	610.7	283.8	103.2	2.3
34/7-21	NOR	92094-133	2516.30	2516.30	CCP	Sst	6.0	13.5	4.5	2.4	1.6	5.0
34/7-21	NOR	92094-134	2518.70	2518.70	CCP	Sst	10.0	11.8	4.4	2.1	1.2	4.1
34/7-21	NOR	92094-135	2521.70	2521.70	CCP	Sst	6.0	14.5	4.9	2.3	1.4	5.9
34/7-21	NOR	92094-136	2530.40	2530.40	CCP	Sst	10.0	19.6	8.5	3.9	1.9	5.3
34/7-21	NOR	92094-137	2534.60	2534.60	CCP	Sst	10.0	19.3	8.4	4.0	1.9	5.0
34/7-21	NOR	92094-138	2537.45	2537.45	CCP	Sst	10.0	28.0	12.7	6.1	2.8	6.4
34/7-21	NOR	92094-139	2538.00	2538.00	CCP	Sst	10.0	27.9	12.0	6.2	2.6	7.1
34/7-21	NOR	92094-140	2541.20	2541.20	CCP	Sst	10.0	21.9	8.6	4.5	2.3	6.5
34/7-21	NOR	92094-141	2544.72	2544.72	CCP	Sst	10.0	12.8	4.6	2.5	1.3	4.4
34/7-21	NOR	92094-147	2558.00	2558.00	CCP	Clyst	5.8	6.6	0.4	0.6	1.9	3.7
34/7-21	NOR	92094-152	2566.80	2566.80	CCP	Sst	6.0	49.0	20.2	10.7	4.4	13.7
34/7-21	NOR	92094-153	2567.30	2567.30	CCP	Sst	6.0	30.4	16.9	2.6	4.1	6.8
34/7-21	NOR	92094-154	2568.50	2568.50	CCP	Sst	6.0	29.6	12.7	7.0	3.6	6.3
34/7-21	NOR	92094-155	2570.60	2570.60	CCP	Clyst	5.5	9.5	1.0	1.6	2.2	4.7
34/7-21	NOR	92094-159	2584.50	2584.50	CCP	Clyst	8.4	9.3	0.4	0.4	1.5	7.0
34/7-21	NOR	92094-44A	2594.00	2603.00	CUT	Clyst	11.9	1.3	0.0	0.1	0.2	1.0
34/7-21	NOR	92094-50A	2648.00	2657.00	CUT	Clyst	9.4	1.2	0.0	0.0	0.2	1.0
34/7-21	NOR	92094-55A	2693.00	2702.00	CUT	Clyst	0.9	8.3	0.2	0.2	1.7	6.2
34/7-21	NOR	92094-65A	2962.00	2971.00	CUT	Clyst	13.0	0.9	0.0	0.0	0.2	0.7
34/7-21A	NOR	92094-166	2849.60	2849.60	CCP	Sst	11.5	6.3	2.1	1.1	1.8	1.3
34/7-21A	NOR	92094-169	2857.30	2857.30	CCP	Clyst	6.3	24.3	11.6	3.6	3.9	5.2
34/7-21A	NOR	92094-188	2873.50	2873.50	OIL	FMT	0.1	1000.0	608.7	264.4	125.2	1.7
34/7-21A	NOR	92094-170	2874.35	2874.35	CCP	Sst	10.0	18.1	7.5	3.9	2.2	4.5
34/7-21A	NOR	92094-171	2876.50	2876.50	CCP	Sst	10.0	18.3	7.8	4.1	2.4	4.0
34/7-21A	NOR	92094-172	2877.50	2877.50	CCP	Sst	10.0	18.7	7.5	3.9	3.0	4.3
34/7-21A	NOR	92094-173	2878.80	2878.80	CCP	Sst	10.0	21.6	7.6	3.6	2.0	8.4
34/7-21A	NOR	92094-174	2880.60	2880.60	CCP	Sst	10.0	21.8	8.2	4.3	3.1	6.2
34/7-21A	NOR	92094-175	2882.80	2882.80	CCP	Clyst	11.0	8.7	1.2	1.2	2.2	4.1
34/7-21A	NOR	92094-176	2890.50	2890.50	CCP	Sity Sst	10.0	9.5	3.8	1.1	1.2	3.4
34/7-21A	NOR	92094-177	2893.50	2893.50	CCP	Sity Sst	10.0	13.4	5.5	1.8	2.3	3.8
34/7-21A	NOR	92094-178	2895.65	2895.65	CCP	Sity Sst	7.0	10.8	4.4	0.9	1.7	3.8
34/7-21A	NOR	92094-181	2904.80	2904.80	CCP	Sity Sst	10.0	12.9	5.2	1.7	1.7	4.3
34/7-21A	NOR	92094-182	2905.70	2905.70	CCP	Clyst	5.7	7.2	0.9	1.1	3.1	2.1
34/7-21A	NOR	92094-183	2908.30	2908.30	CCP	Sity Sst	10.0	9.3	3.4	1.1	2.3	2.5
34/7-21A	NOR	92094-186	2947.50	2947.50	CCP	Clyst	9.0	6.2	0.6	0.9	2.1	2.6
34/7-21A	NOR	92094-116A	2964.00	2973.00	CUT	Clyst	12.4	15.3	0.4	0.9	8.8	5.2
34/7-21A	NOR	92094-188	3035.50	3035.50	OIL	FMT	0.1	1000.0	560.8	326.9	112.3	0.0
34/7-21A	NOR	92094-125A	3114.00	3123.00	CUT	Clyst	15.0	6.4	0.1	0.2	4.9	1.2

Well name	Nation	Sample name	Upper depth	Lower depth	Sample type	Lith	SAT %	ARO %	NSO %	ASPH %
34/7-21	NOR	92094-35A	2400.00	2410.00	CUT	Clyst	18.2	18.2	36.4	27.3
34/7-21	NOR	92094-164	2498.50	2498.50	OIL	FMT	51.4	32.2	14.8	1.5
34/7-21	NOR	92094-163	2510.50	2537.50	OIL	DST 1	61.1	28.4	10.3	0.2
34/7-21	NOR	92094-133	2516.30	2516.30	CCP	Sst	33.3	17.8	11.9	37.0
34/7-21	NOR	92094-134	2518.70	2518.70	CCP	Sst	37.3	17.8	10.2	34.7
34/7-21	NOR	92094-135	2521.70	2521.70	CCP	Sst	33.8	15.9	9.7	40.7
34/7-21	NOR	92094-136	2530.40	2530.40	CCP	Sst	43.4	19.9	9.7	27.0
34/7-21	NOR	92094-137	2534.60	2534.60	CCP	Sst	43.5	20.7	9.8	25.9
34/7-21	NOR	92094-138	2537.45	2537.45	CCP	Sst	45.4	21.8	10.0	22.9
34/7-21	NOR	92094-139	2538.00	2538.00	CCP	Sst	43.0	22.2	9.3	25.4
34/7-21	NOR	92094-140	2541.20	2541.20	CCP	Sst	39.3	20.5	10.5	29.7
34/7-21	NOR	92094-141	2544.72	2544.72	CCP	Sst	35.9	19.5	10.2	34.4
34/7-21	NOR	92094-147	2558.00	2558.00	CCP	Clyst	6.1	9.1	28.8	56.1
34/7-21	NOR	92094-152	2566.80	2566.80	CCP	Sst	41.2	21.8	9.0	28.0
34/7-21	NOR	92094-153	2567.30	2567.30	CCP	Sst	55.6	8.6	13.5	22.4
34/7-21	NOR	92094-154	2568.50	2568.50	CCP	Sst	42.9	23.6	12.2	21.3
34/7-21	NOR	92094-155	2570.60	2570.60	CCP	Clyst	10.5	16.8	23.2	49.5
34/7-21	NOR	92094-159	2584.50	2584.50	CCP	Clyst	4.3	4.3	16.1	75.3
34/7-21	NOR	92094-44A	2594.00	2603.00	CUT	Clyst	< 0.0	7.7	15.4	76.9
34/7-21	NOR	92094-50A	2648.00	2657.00	CUT	Clyst	< 0.0	< 0.0	16.7	83.3
34/7-21	NOR	92094-55A	2693.00	2702.00	CUT	Clyst	2.4	2.4	20.5	74.7
34/7-21	NOR	92094-65A	2962.00	2971.00	CUT	Clyst	< 0.0	< 0.0	22.2	77.8
34/7-21A	NOR	92094-166	2849.60	2849.60	CCP	Sst	33.3	17.5	28.6	20.6
34/7-21A	NOR	92094-169	2857.30	2857.30	CCP	Clyst	47.7	14.8	16.0	21.4
34/7-21A	NOR	92094-188	2873.50	2873.50	OIL	FMT	60.9	26.4	12.5	0.2
34/7-21A	NOR	92094-170	2874.35	2874.35	CCP	Sst	41.4	21.5	12.2	24.9
34/7-21A	NOR	92094-171	2876.50	2876.50	CCP	Sst	42.6	22.4	13.1	21.9
34/7-21A	NOR	92094-172	2877.50	2877.50	CCP	Sst	40.1	20.9	16.0	23.0
34/7-21A	NOR	92094-173	2878.80	2878.80	CCP	Sst	35.2	16.7	9.3	38.9
34/7-21A	NOR	92094-174	2880.60	2880.60	CCP	Sst	37.6	19.7	14.2	28.4
34/7-21A	NOR	92094-175	2882.80	2882.80	CCP	Clyst	13.8	13.8	25.3	47.1
34/7-21A	NOR	92094-176	2890.50	2890.50	CCP	Silty Sst	40.0	11.6	12.6	35.8
34/7-21A	NOR	92094-177	2893.50	2893.50	CCP	Silty Sst	41.0	13.4	17.2	28.4
34/7-21A	NOR	92094-178	2895.65	2895.65	CCP	Silty Sst	40.7	8.3	15.7	35.2
34/7-21A	NOR	92094-181	2904.80	2904.80	CCP	Silty Sst	40.3	13.2	13.2	33.3
34/7-21A	NOR	92094-182	2905.70	2905.70	CCP	Clyst	12.5	15.3	43.1	29.2
34/7-21A	NOR	92094-183	2908.30	2908.30	CCP	Silty Sst	36.6	11.8	24.7	26.9
34/7-21A	NOR	92094-186	2947.50	2947.50	CCP	Clyst	9.7	14.5	33.9	41.9
34/7-21A	NOR	92094-116A	2964.00	2973.00	CUT	Clyst	2.6	5.9	57.5	34.0
34/7-21A	NOR	92094-188	3035.50	3035.50	OIL	FMT	56.1	32.7	11.2	0.0
34/7-21A	NOR	92094-125A	3114.00	3123.00	CUT	Clyst	1.6	3.1	76.6	18.8

PHYSICAL PROPERTIES

Table 14

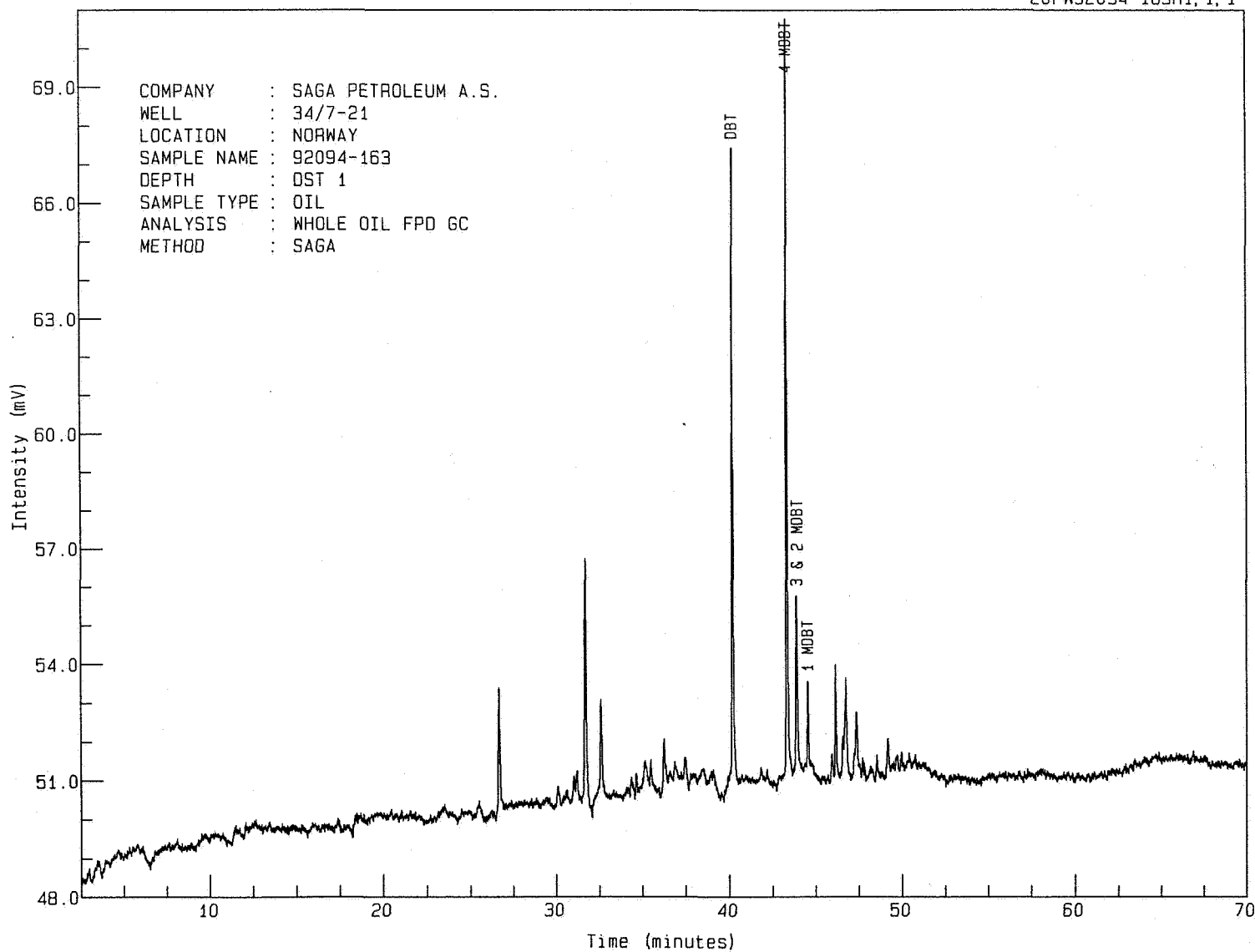
Well Name	Nation	Sample Name	Upper Depth	Lower Depth	Sample Type	API	API of distillate with BP > 210 C	S %	Ni ppm	V ppm
34/7-21	NOR	92094-163	DST 1	DST 1	Oil	35.9	38.6	0.16	4	4
34/7-21	NOR	92094-164	2498.5	2498.5	Oil	29.0	35.6	0.19	3	2
34/7-21A	NOR	92094-188	2873.5	2873.5	Oil	35.9	37.0	0.12	4	3
34/7-21A	NOR	92094-189	3035.5	3035.5	Oil	32.7	37.2	0.50	5	5

WHOLE OIL FPD PEAK HEIGHT DATA

Table 15

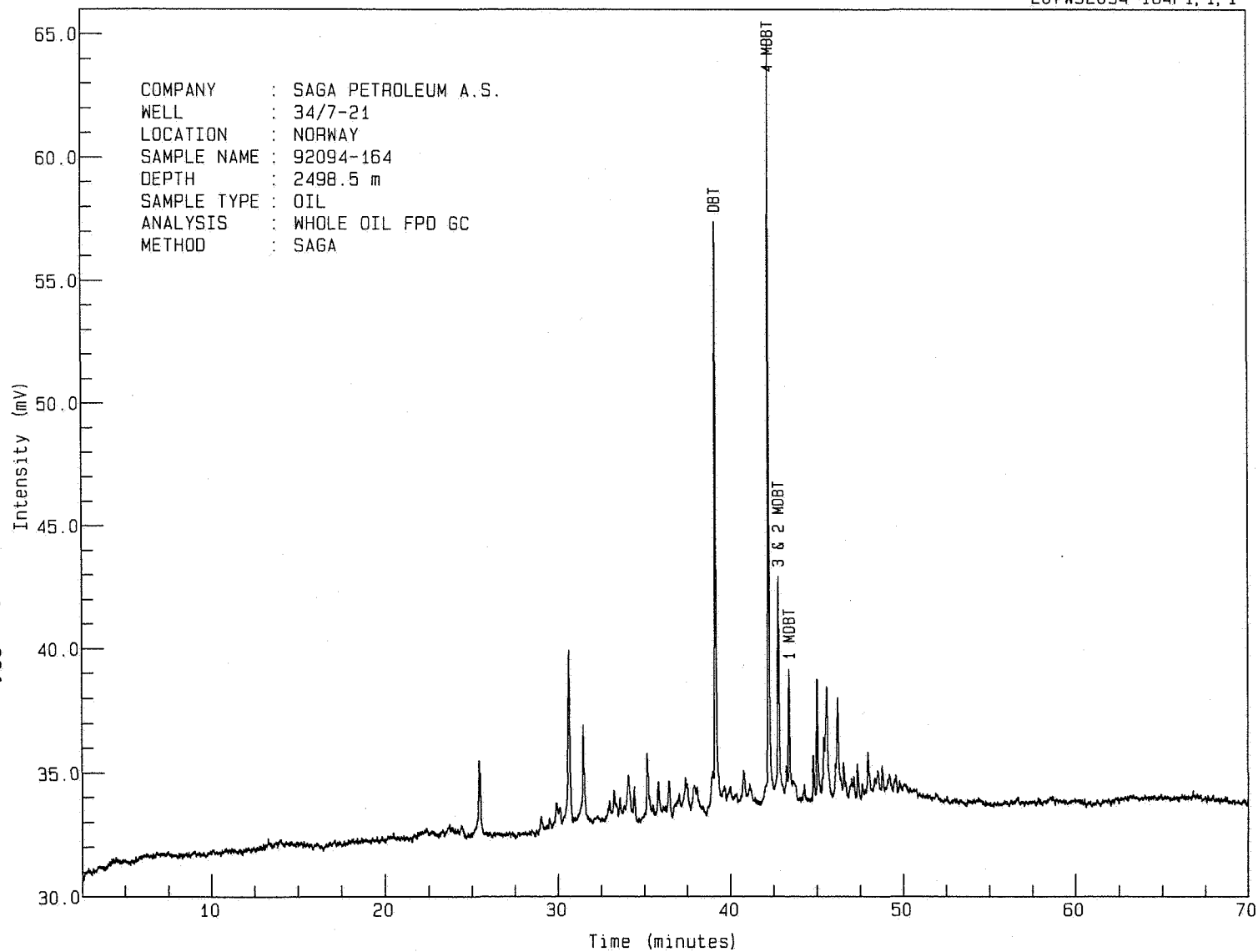
Well Name	Nation	Sample Name	Upper Depth	Lower Depth	Sample Type	DBT	4 MDBT	3 & 2 MDBT	1 MDBT
34/7-21	NOR	92094-163	DST 1	DST 1	Oil	18351.0	21678.0	4422.0	2086.0
34/7-21	NOR	92094-164	2498.5	2498.5	Oil	22842.0	30220.0	8471.0	4602.0
34/7-21A	NOR	92094-188	2873.5	2873.5	Oil	Thiophenes too weak in whole oil to achieve significant FPD response			
34/7-21A	NOR	92094-189	3035.5	3035.5	Oil				

20FW92094-163R1, 1, 1



20fw92094-164r1, 1, 1

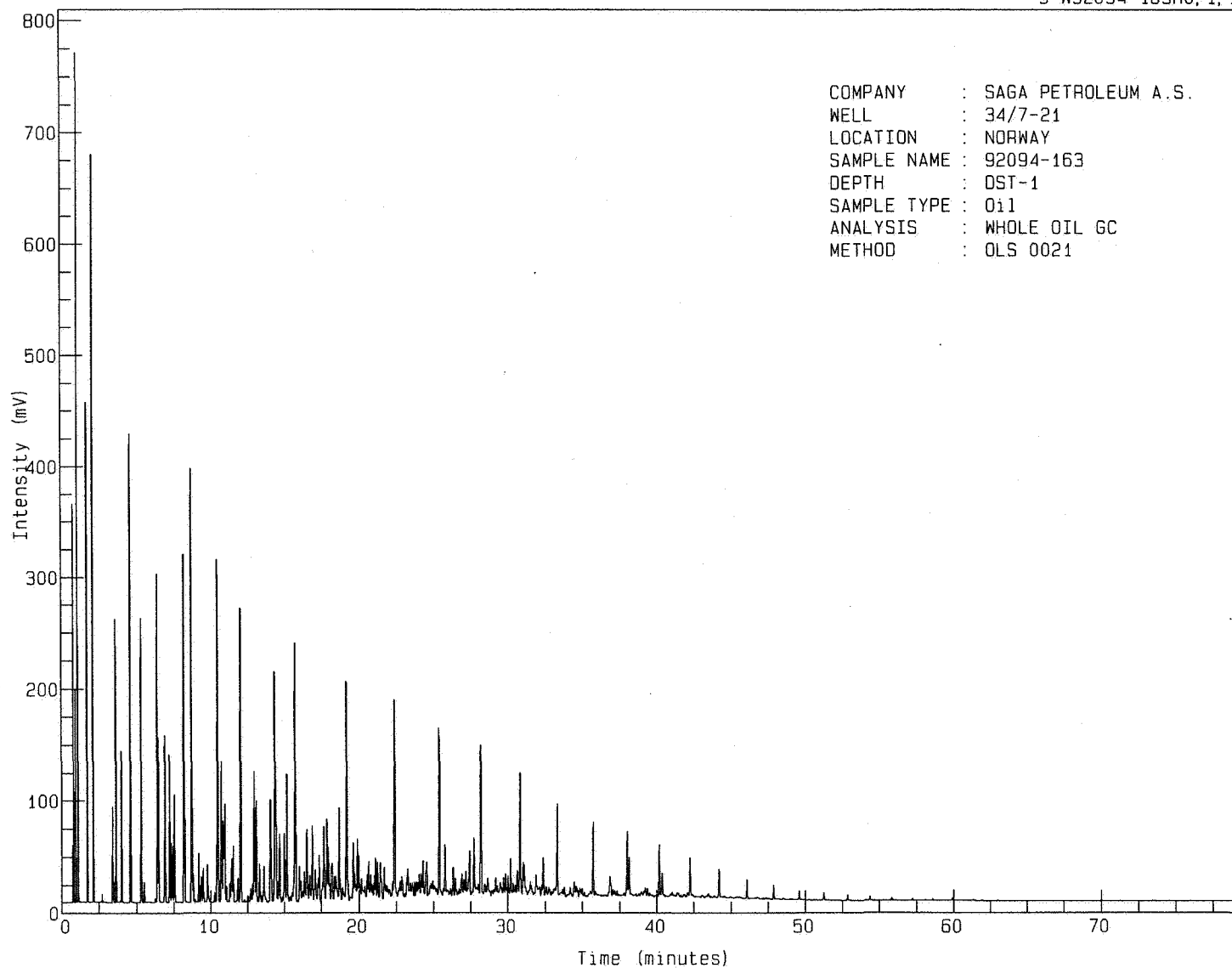
COMPANY : SAGA PETROLEUM A.S.
WELL : 34/7-21
LOCATION : NORWAY
SAMPLE NAME : 92094-164
DEPTH : 2498.5 m
SAMPLE TYPE : OIL
ANALYSIS : WHOLE OIL FPD GC
METHOD : SAGA



9 W92094-163R0, 1, 1

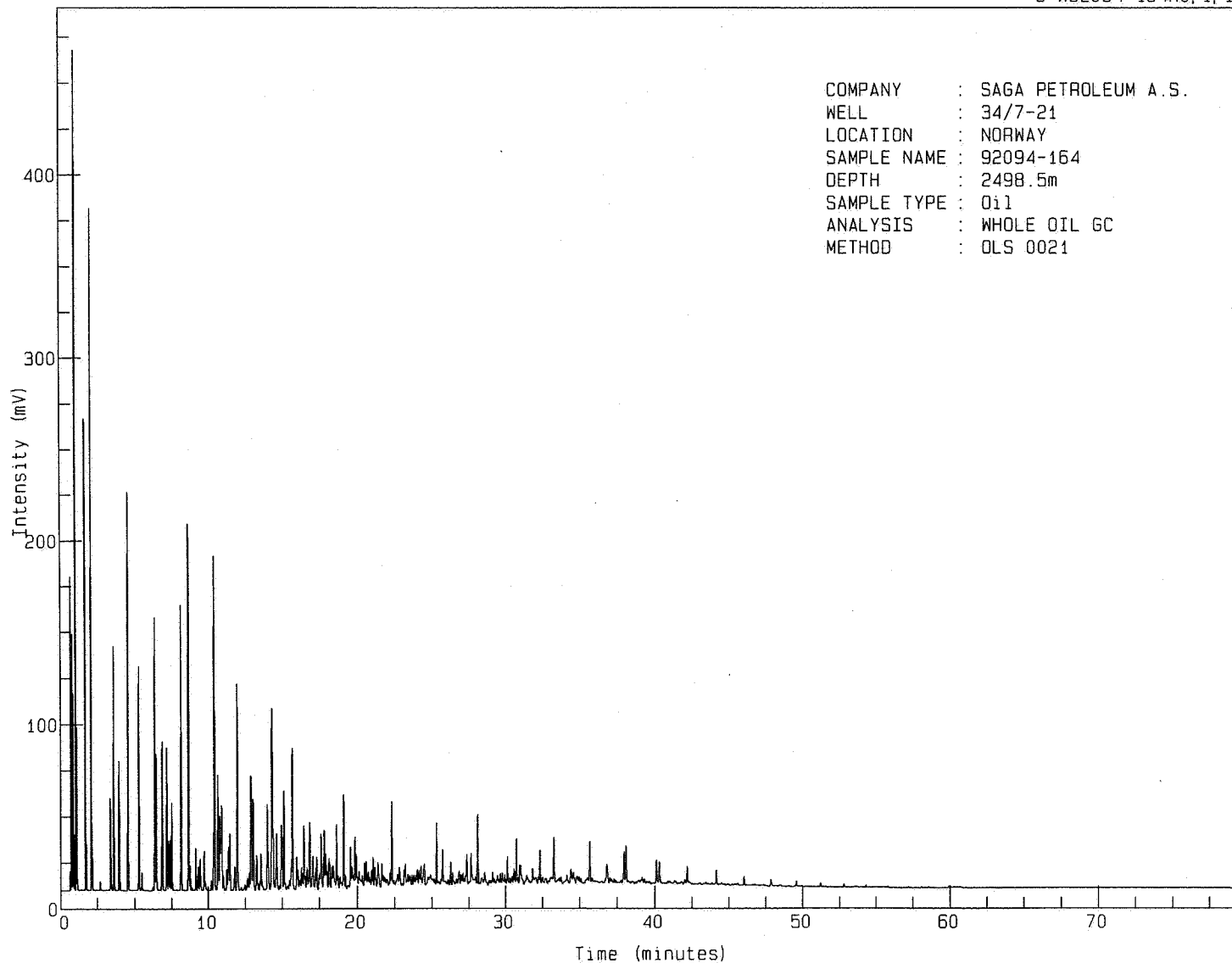
COMPANY : SAGA PETROLEUM A.S.
WELL : 34/7-21
LOCATION : NORWAY
SAMPLE NAME : 92094-163
DEPTH : DST-1
SAMPLE TYPE : Oil
ANALYSIS : WHOLE OIL GC
METHOD : OLS 0021

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9 W92094-164R0, 1, 1

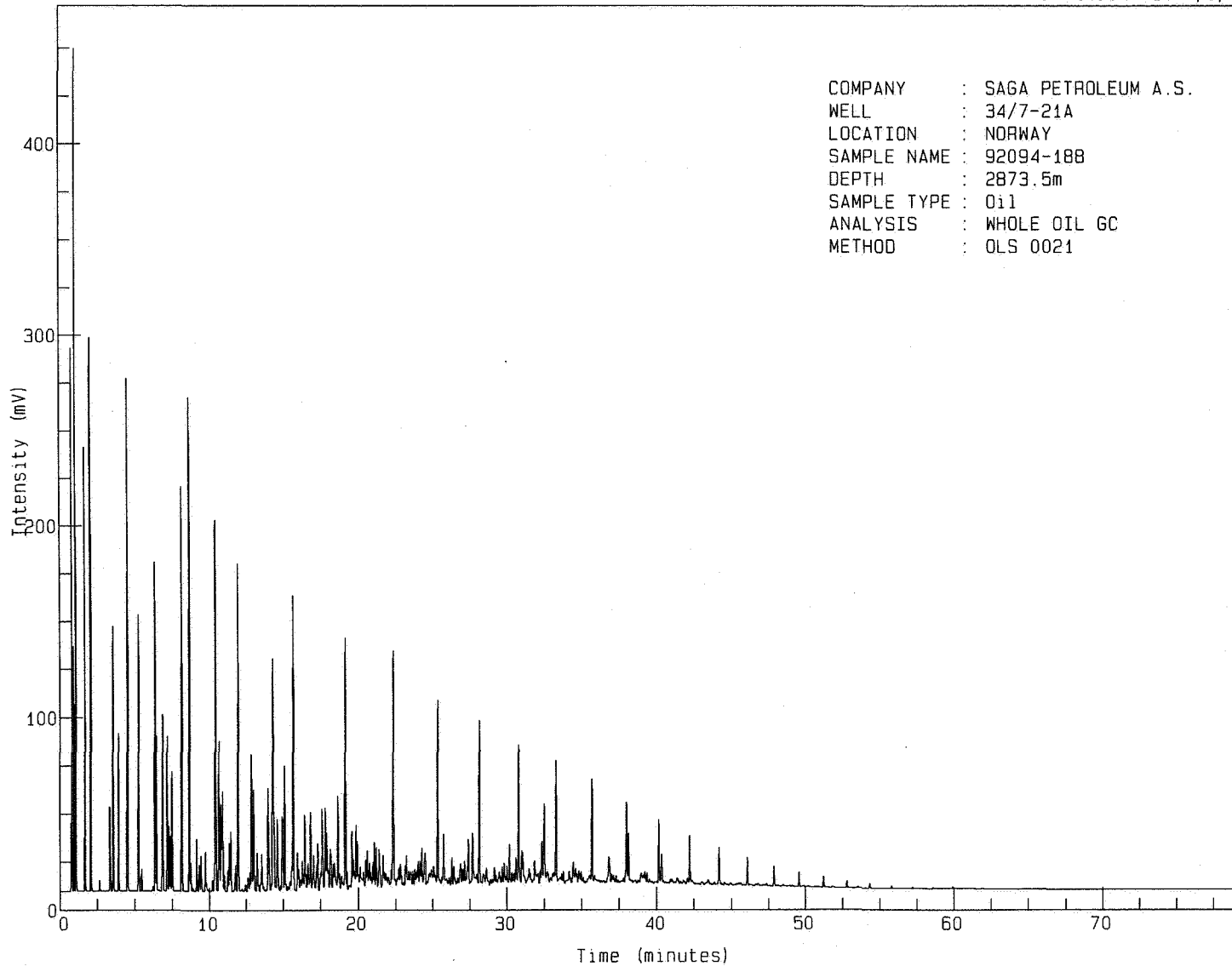
COMPANY : SAGA PETROLEUM A.S.
WELL : 34/7-21
LOCATION : NORWAY
SAMPLE NAME : 92094-164
DEPTH : 2498.5m
SAMPLE TYPE : Oil
ANALYSIS : WHOLE OIL GC
METHOD : OLS 0021



9 W92094-188R0, 1, 1

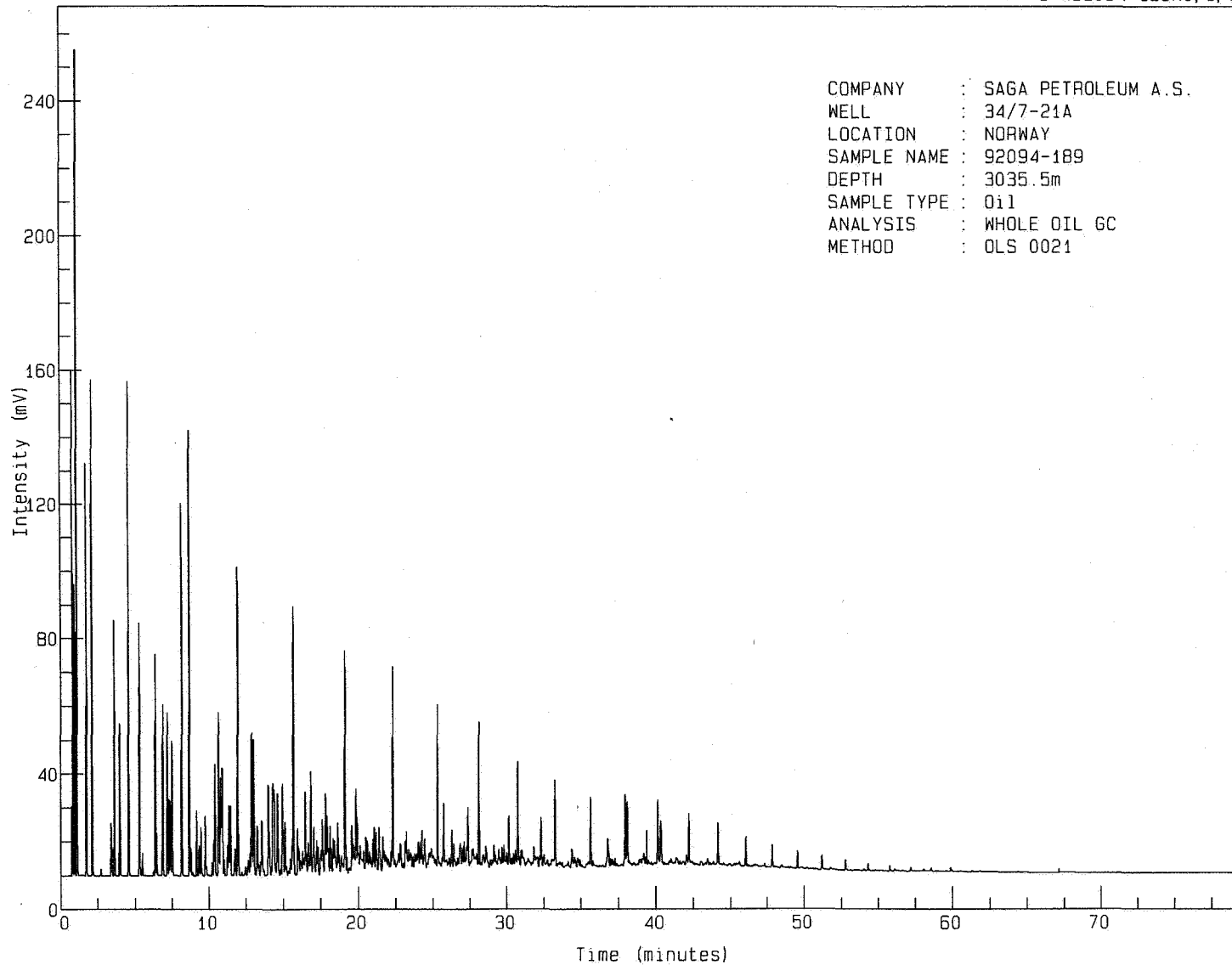
COMPANY : SAGA PETROLEUM A.S.
WELL : 34/7-21A
LOCATION : NORWAY
SAMPLE NAME : 92094-188
DEPTH : 2873.5m
SAMPLE TYPE : Oil
ANALYSIS : WHOLE OIL GC
METHOD : OLS 0021

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9 W92094-189R0, 1, 1

COMPANY : SAGA PETROLEUM A.S.
WELL : 34/7-21A
LOCATION : NORWAY
SAMPLE NAME : 92094-189
DEPTH : 3035.5m
SAMPLE TYPE : Oil
ANALYSIS : WHOLE OIL GC
METHOD : OLS 0021



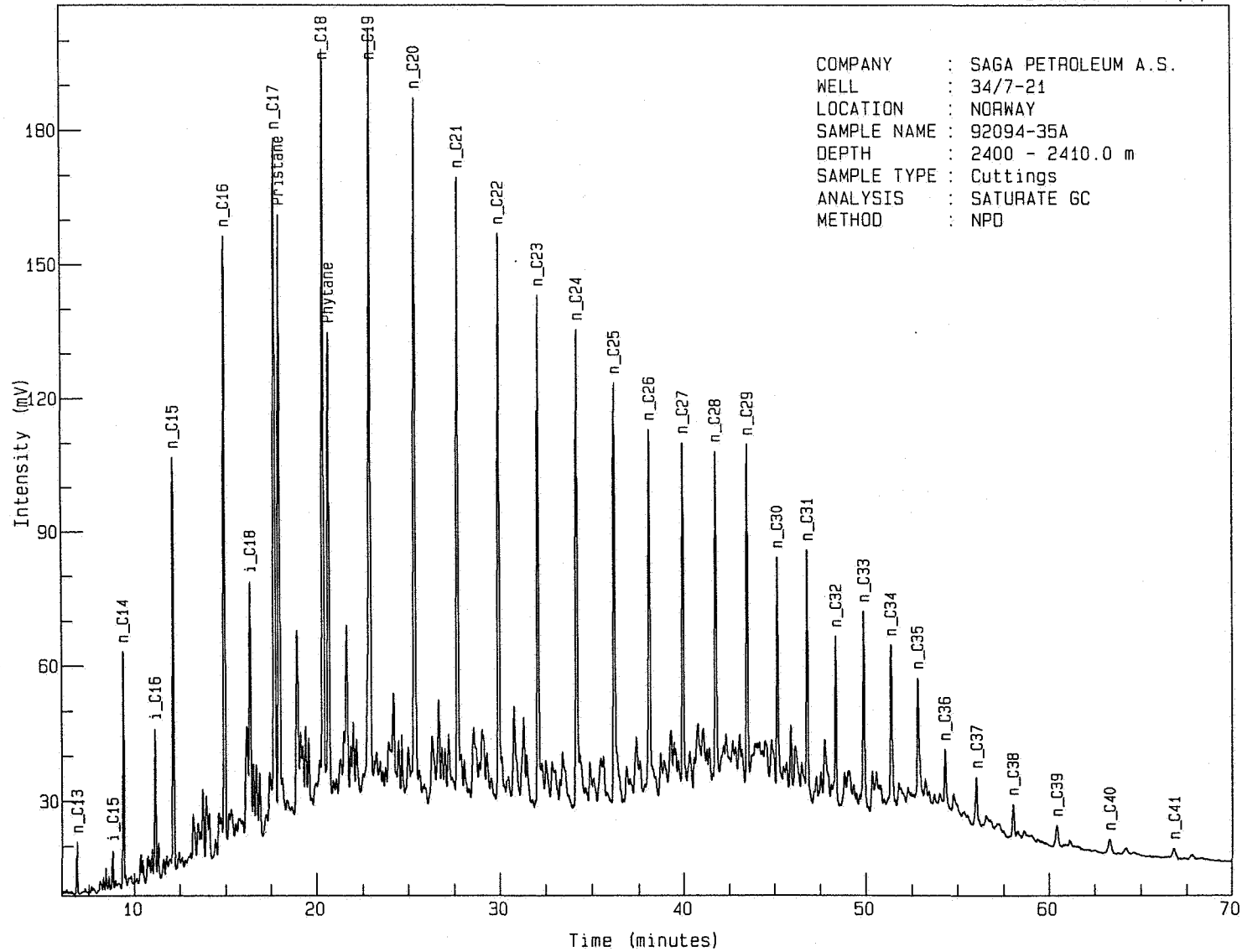
ATURATE GC PEAK HEIGHT DATA

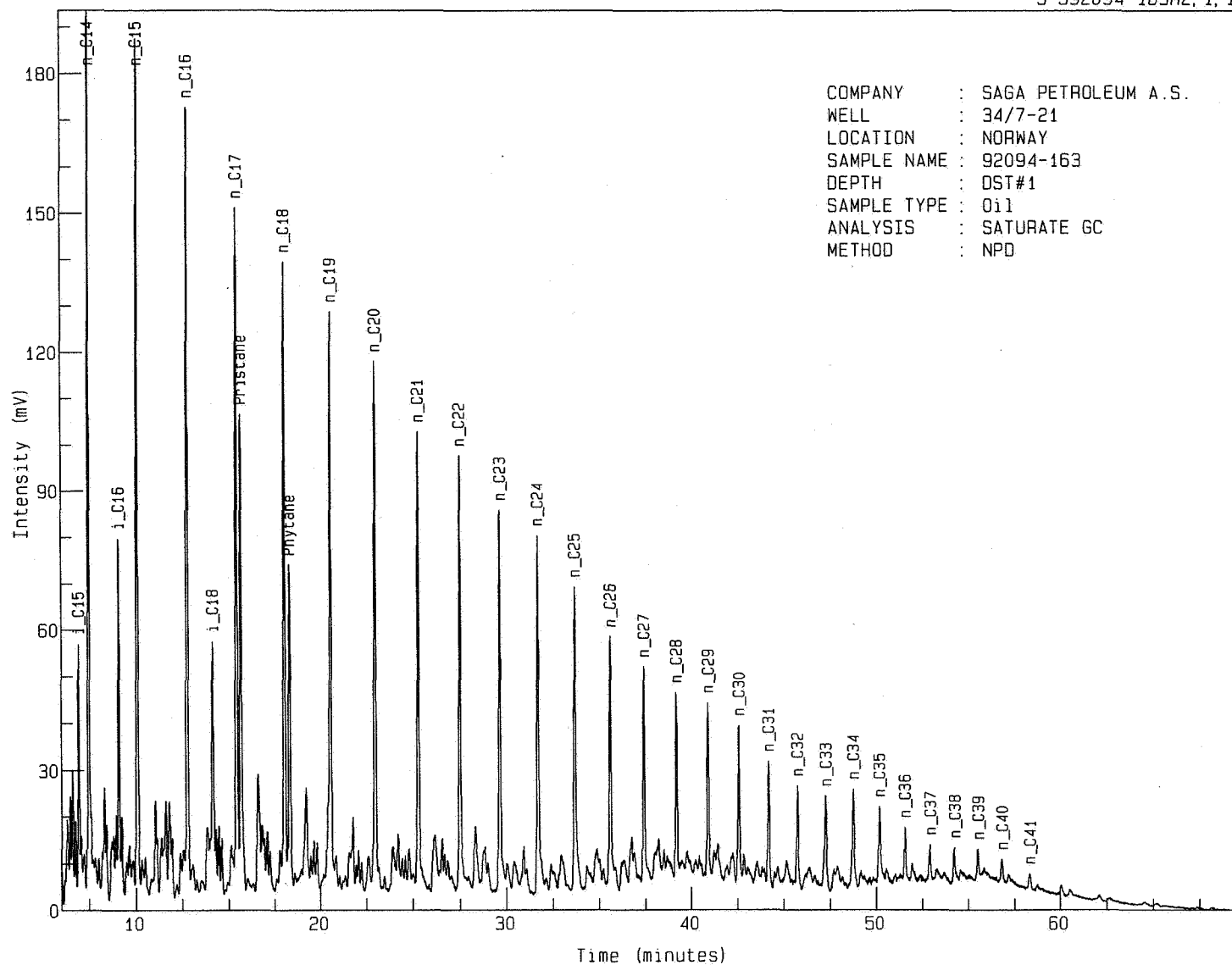
Table 16

Well Name	Nation	Sample Name	Upper Depth	Lower Depth	Sample Type	Lith	nC17 uV	nC18 uV	nC22 uV	nC27 uV	nC32 uV	Nor pris uV	Pris uV	Phyt uV	CPI1	CPI2	Pris nC17	Phyt nC18	Pris Phyt
4/7-21	NOR	92094-35A	2400.0	2410.0	CUT	Clyst	147370	161231	121223	75407	35933	46808	128898	100992	1.13	1.21	0.87	0.63	1.28
4/7-21	NOR	92094-163	DST 1	DST 1	Oil		143016	133846	93345	45717	21221	53298	100127	68592	1.02	1.03	0.70	0.51	1.46
4/7-21	NOR	92094-164	2498.5	2498.5	Oil		52091	41510	30571	17674	8875	30516	68869	46788	1.01	1.02	1.32	1.13	1.47
4/7-21	NOR	92094-134	2518.7	2518.7	CCP	Sst	83425	97892	99688	65286	37656	19525	54458	48910	1.01	1.09	0.65	0.50	1.11
4/7-21	NOR	92094-138	2537.4	2537.4	CCP	Sst	135867	138243	103688	56168	25395	42174	90362	67735	1.00	1.09	0.67	0.49	1.33
4/7-21	NOR	92094-140	2541.2	2541.2	CCP	Sst	100347	98865	77129	41669	19595	28283	61991	48444	1.00	1.05	0.62	0.49	1.28
4/7-21	NOR	92094-147	2558.0	2558.0	CCP	Clyst	38409	27213	12944	8144	3367	14144	50673	50295	0.95	0.78	1.32	1.85	1.01
4/7-21	NOR	92094-152	2566.8	2566.8	CCP	Sst	85456	81824	61567	32467	14745	30581	65085	49147	1.00	1.06	0.76	0.60	1.32
4/7-21	NOR	92094-153	2567.3	2567.3	CCP	Sst	119899	126017	100251	57179	31538	46242	102086	82194	0.98	1.08	0.85	0.65	1.24
4/7-21	NOR	92094-155	2570.6	2570.6	CCP	Clyst	78101	76152	48801	18544	6105	23120	48608	38987	0.97	0.86	0.62	0.51	1.25
4/7-21	NOR	92094-159	2584.5	2584.5	CCP	Clyst	32627	20339	7412	14224	1997	19234	50765	28054	1.43	1.44	1.56	1.38	1.81
4/7-21	NOR	92094-44A	2594.0	2603.0	CUT	Clyst	49703	52079	37220	45964	10804	14394	48954	29017	1.68	1.93	0.98	0.56	1.69
4/7-21	NOR	92094-50A	2648.0	2657.0	CUT	Clyst	15637	27373	22828	52923	5678	3170	17697	8941	2.12	1.93	1.13	0.33	1.98
4/7-21	NOR	92094-55A	2693.0	2702.0	CUT	Clyst	Weak sample - analysis not possible												
4/7-21	NOR	92094-65A	2962.0	2971.0	CUT	Clyst	60534	75392	94125	117003	15084	12001	55893	21462	1.74	1.71	0.92	0.28	2.60
4/7-21A	NOR	92094-166	2849.6	2849.6	CCP	Sst	118445	99844	83026	44577	21968	71084	148416	109530	1.04	1.06	1.25	1.10	1.36
4/7-21A	NOR	92094-169	2857.3	2857.3	CCP	Lst	97026	96230	80563	47808	26768	56080	125864	96869	1.04	1.15	1.30	1.01	1.30
4/7-21A	NOR	92094-188	2873.5	2873.5	Oil		213990	197291	141971	77915	31426	77905	149272	101865	0.99	0.93	0.70	0.52	1.47
4/7-21A	NOR	92094-170	2874.3	2874.3	CCP	Sst	193535	197150	167321	91450	44026	67145	144340	112362	1.00	1.01	0.75	0.57	1.28
4/7-21A	NOR	92094-174	2880.6	2880.6	CCP	Sst	177683	188589	165786	90031	44149	52544	131086	102678	0.98	0.98	0.74	0.54	1.28
4/7-21A	NOR	92094-175	2882.8	2882.8	CCP	Clyst/Sh	379014	333406	122543	68998	24086	179117	328940	225707	1.07	1.16	0.87	0.68	1.46
4/7-21A	NOR	92094-177	2893.5	2893.5	CCP	sity Sst	152004	157063	123181	69286	34179	55130	103090	81102	1.00	1.05	0.68	0.52	1.27
4/7-21A	NOR	92094-181	2904.8	2904.8	CCP	sity Sst	158442	156853	130496	71731	34587	55805	109272	86688	1.01	1.00	0.69	0.55	1.26
4/7-21A	NOR	92094-182	2905.7	2905.7	CCP	Clyst	198730	162850	119427	62953	55373	102675	306252	378181	0.95	1.47	1.54	2.32	0.81
4/7-21A	NOR	92094-186	2947.5	2947.5	CCP	Clyst	171830	123890	67735	63687	21781	82610	236779	232740	1.01	0.91	1.38	1.88	1.02
4/7-21A	NOR	92094-116	2964.0	2973.0	CUT	Clyst	108988	98192	64779	47721	16957	69612	169316	192876	1.11	1.21	1.55	1.96	0.88
4/7-21A	NOR	92094-189	3035.5	3035.5	Oil		139940	121995	86278	48740	23464	70258	135463	95514	0.96	0.93	0.97	0.78	1.42
4/7-21A	NOR	92094-125	3114.0	3123.0	CUT	Clyst	110641	93823	63397	66423	24827	39579	142488	123556	1.38	1.83	1.29	1.32	1.15

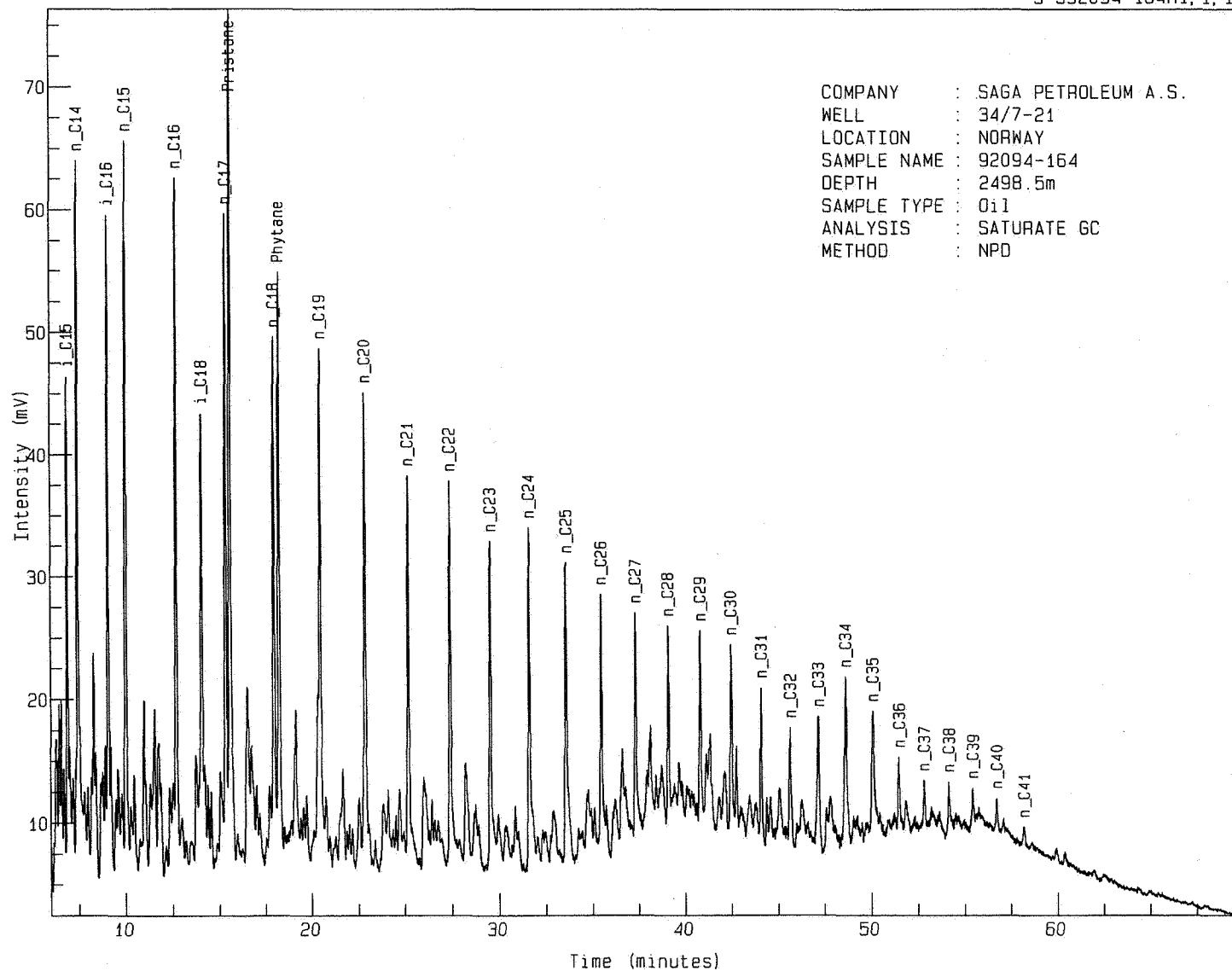
COMPANY : SAGA PETROLEUM A.S.
WELL : 34/7-21
LOCATION : NORWAY
SAMPLE NAME : 92094-35A
DEPTH : 2400 - 2410.0 m
SAMPLE TYPE : Cuttings
ANALYSIS : SATURATE GC
METHOD : NPD

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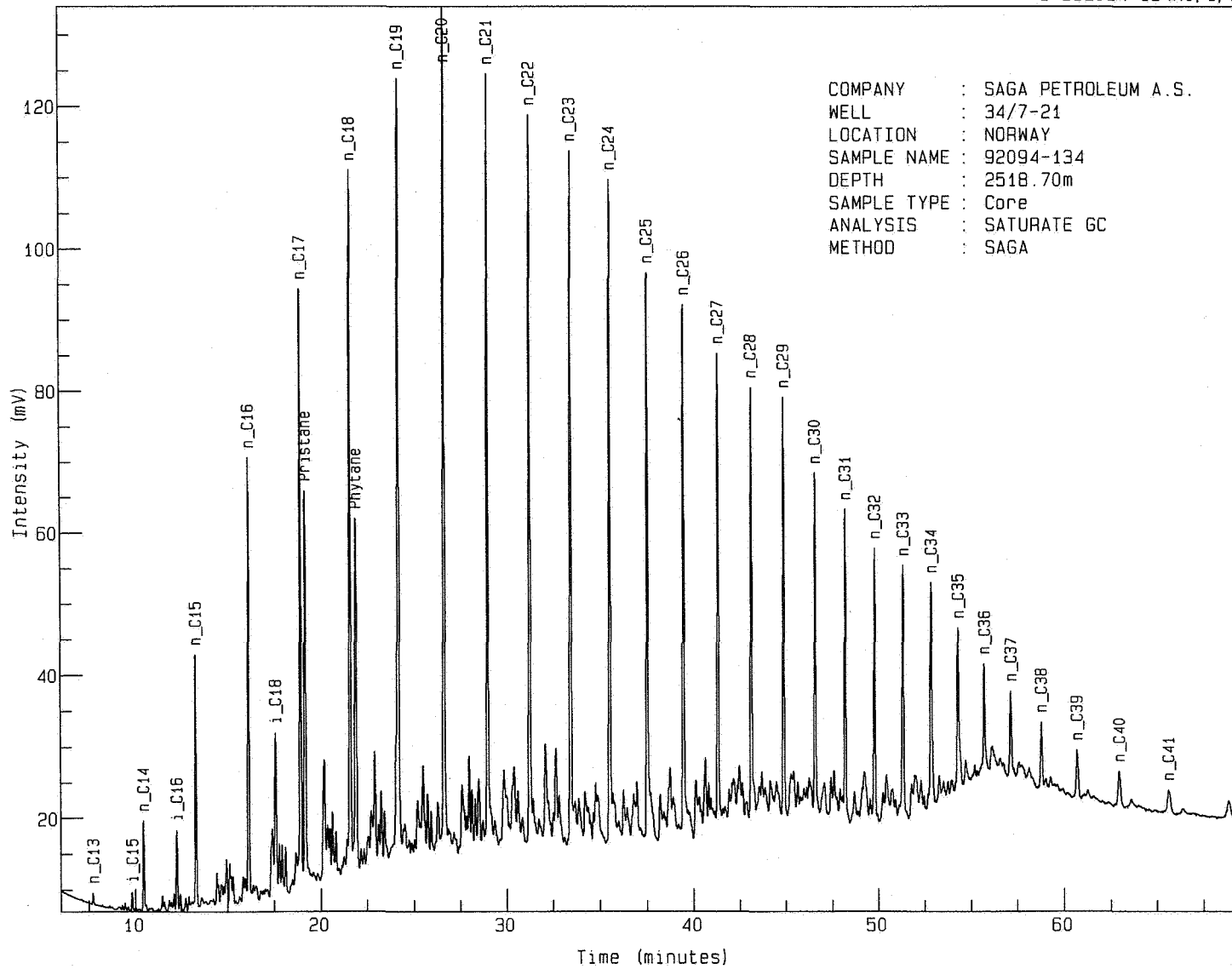


5 S92094-164R1, 1, 1

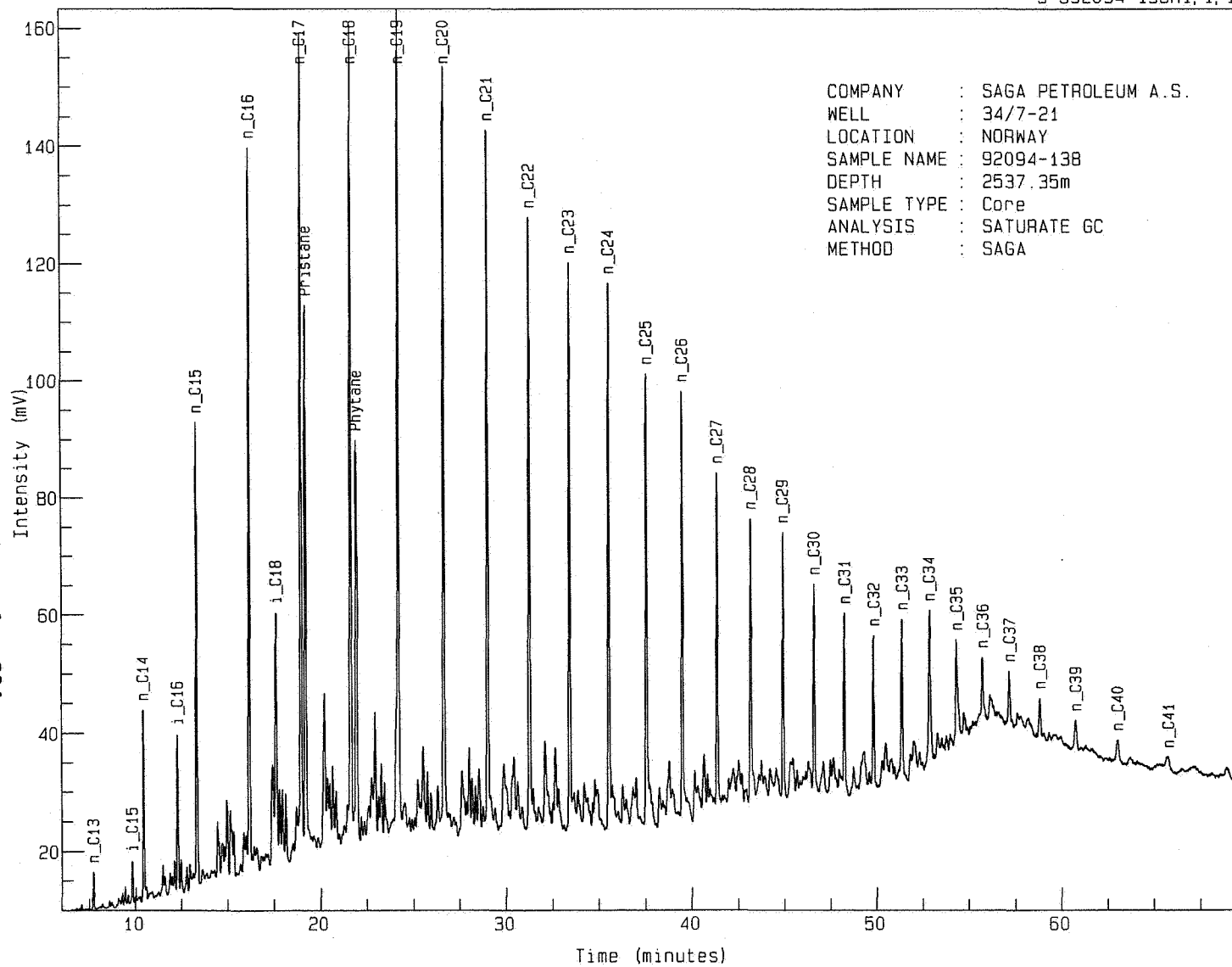


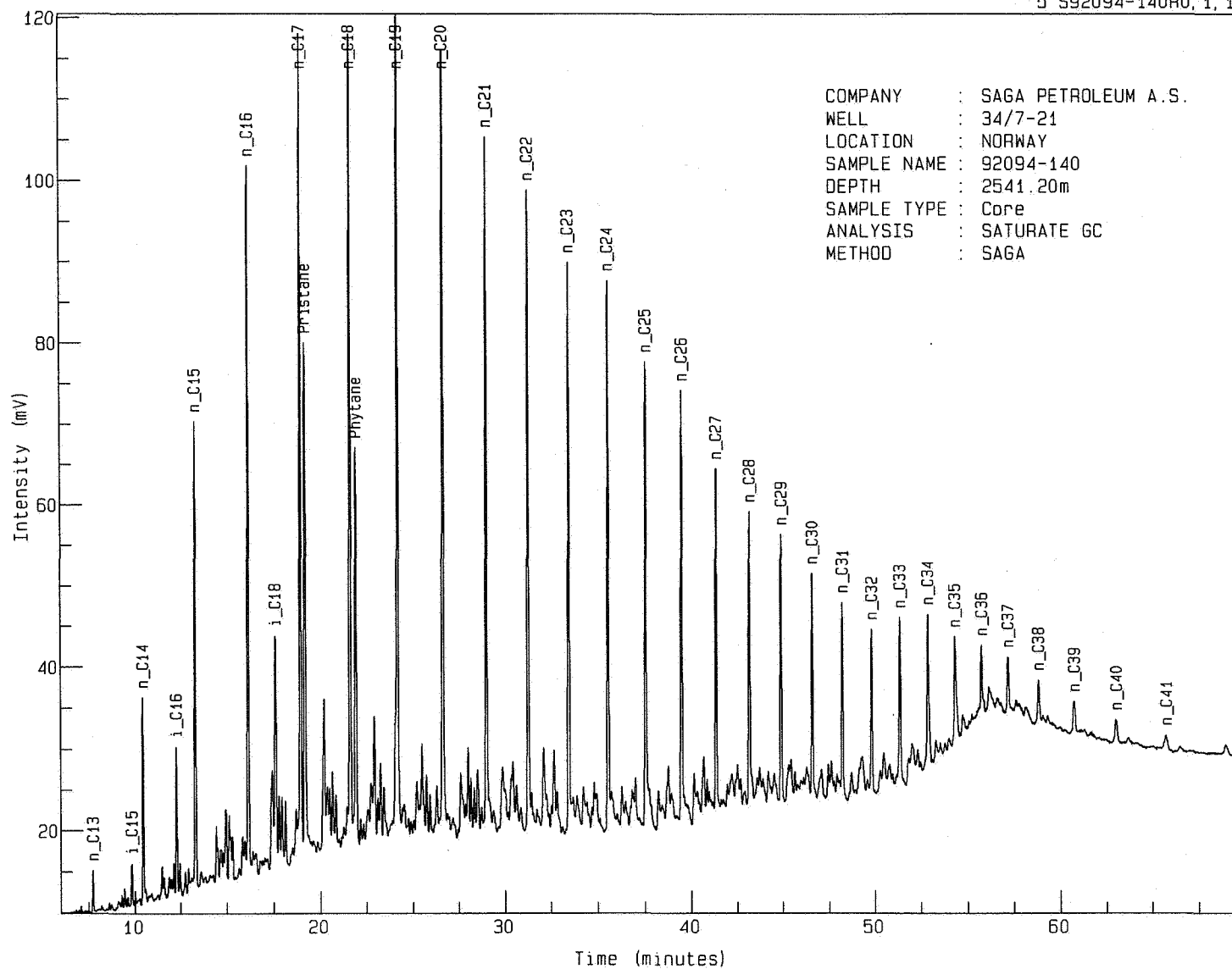
COMPANY : SAGA PETROLEUM A.S.
 WELL : 34/7-21
 LOCATION : NORWAY
 SAMPLE NAME : 92094-164
 DEPTH : 2498.5m
 SAMPLE TYPE : Oil
 ANALYSIS : SATURATE GC
 METHOD : NPD

5 S92094-134R0, 1, 1



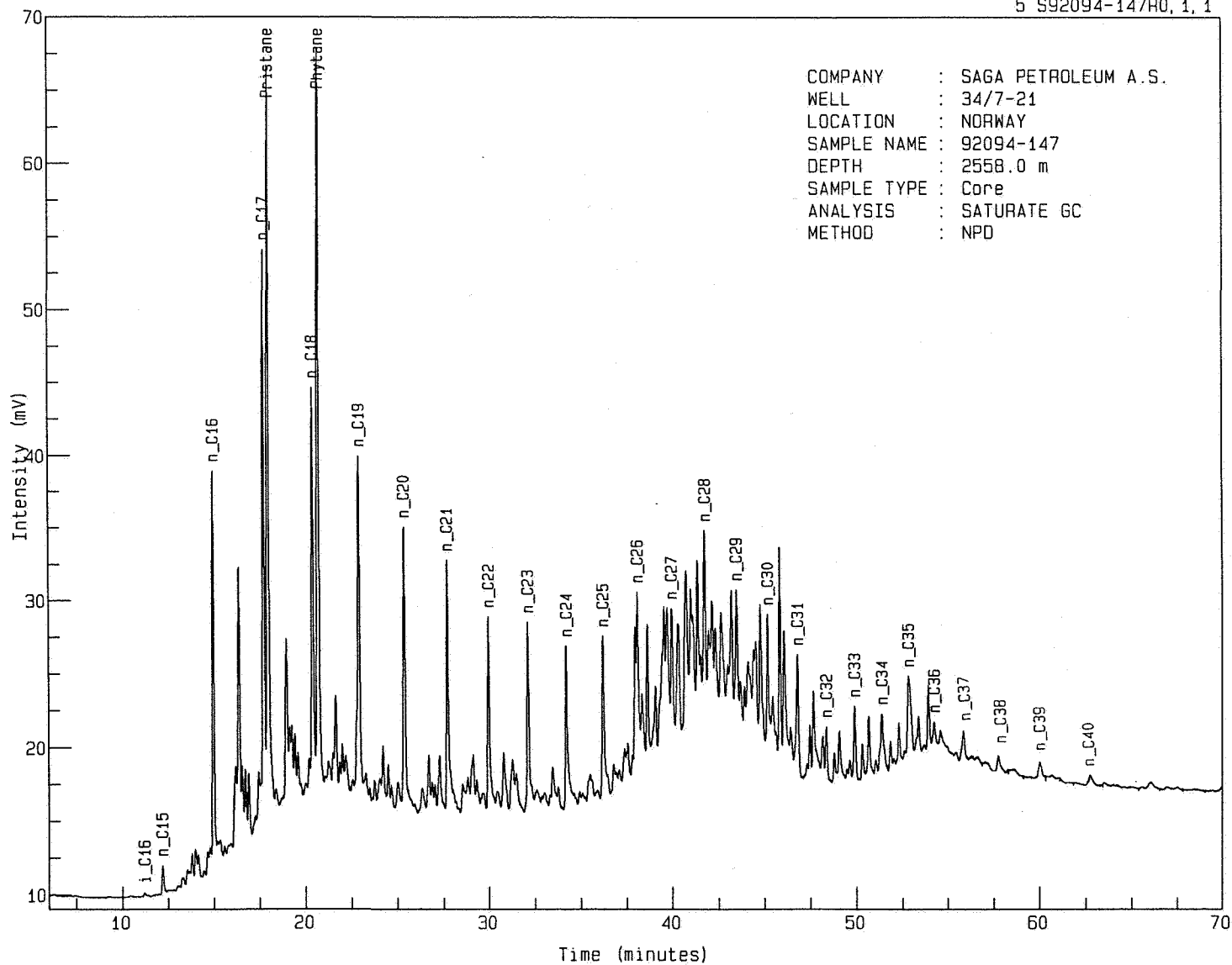
5 S92094-138R1, 1, 1



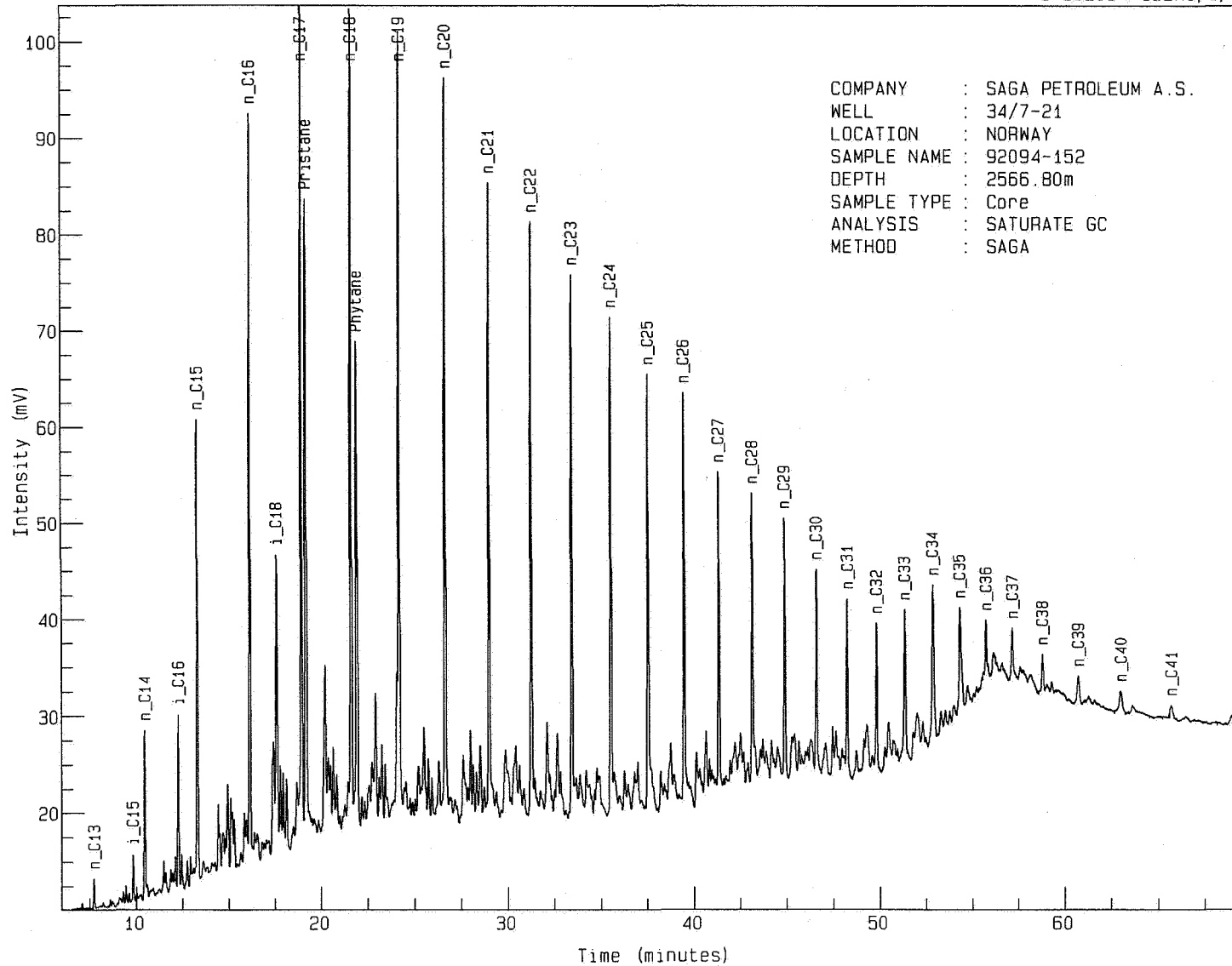


5 S92094-147R0, 1, 1

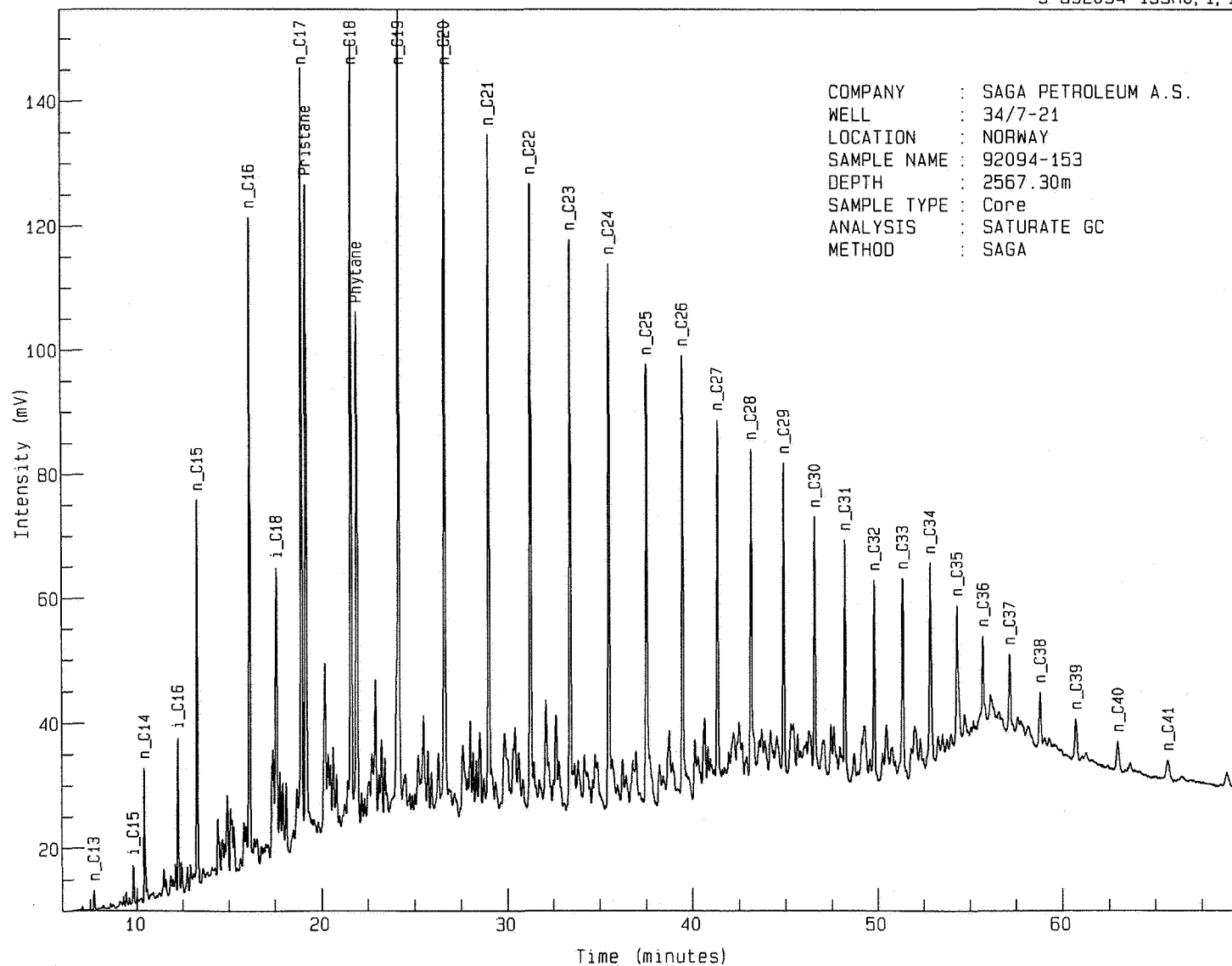
COMPANY : SAGA PETROLEUM A.S.
WELL : 34/7-21
LOCATION : NORWAY
SAMPLE NAME : 92094-147
DEPTH : 2558.0 m
SAMPLE TYPE : Core
ANALYSIS : SATURATE GC
METHOD : NPD



5 S92094-152R0, 1, 1



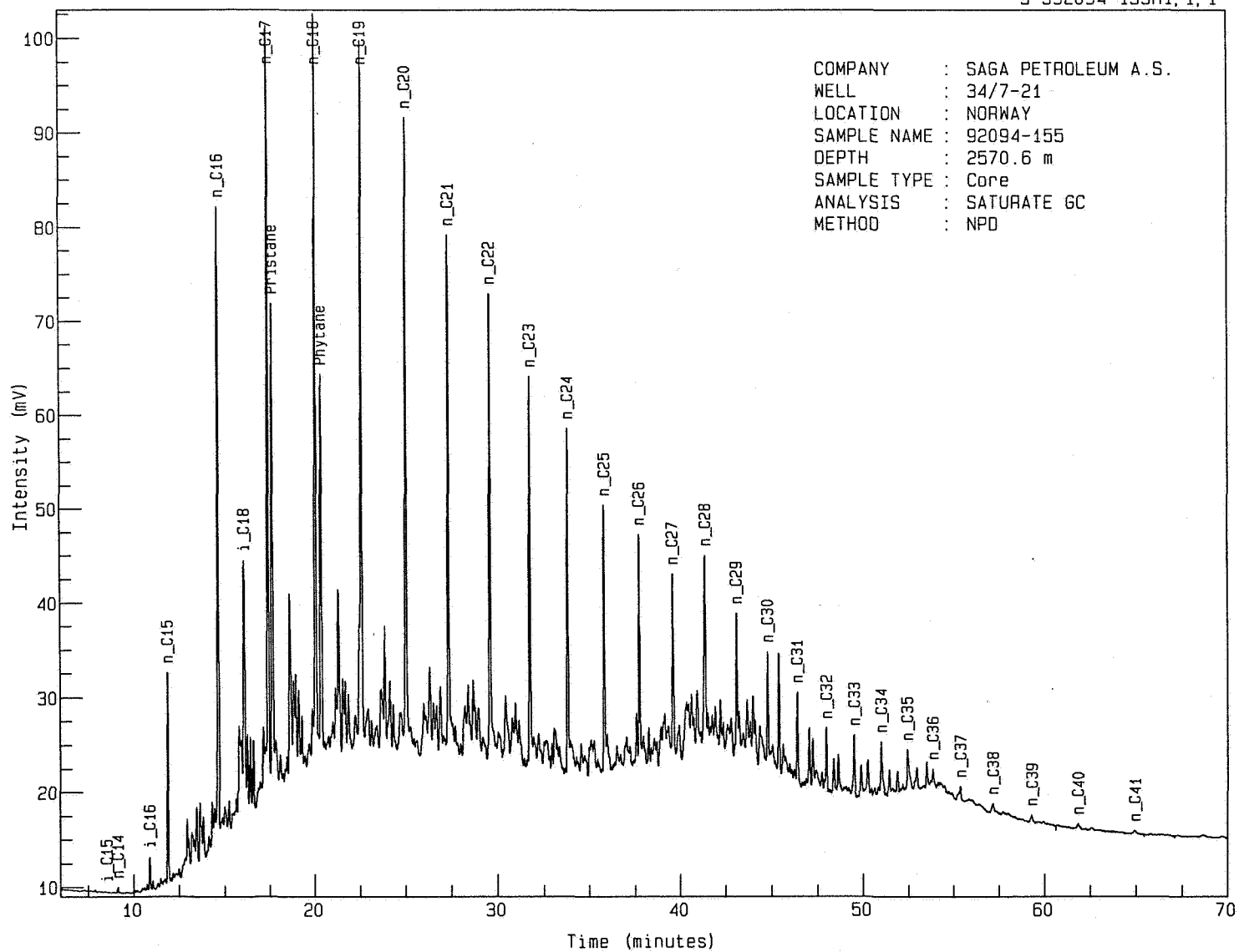
5 S92094-153R0, 1, 1



5 S92094-155R1, 1, 1

COMPANY : SAGA PETROLEUM A.S.
WELL : 34/7-21
LOCATION : NORWAY
SAMPLE NAME : 92094-155
DEPTH : 2570.6 m
SAMPLE TYPE : Core
ANALYSIS : SATURATE GC
METHOD : NPD

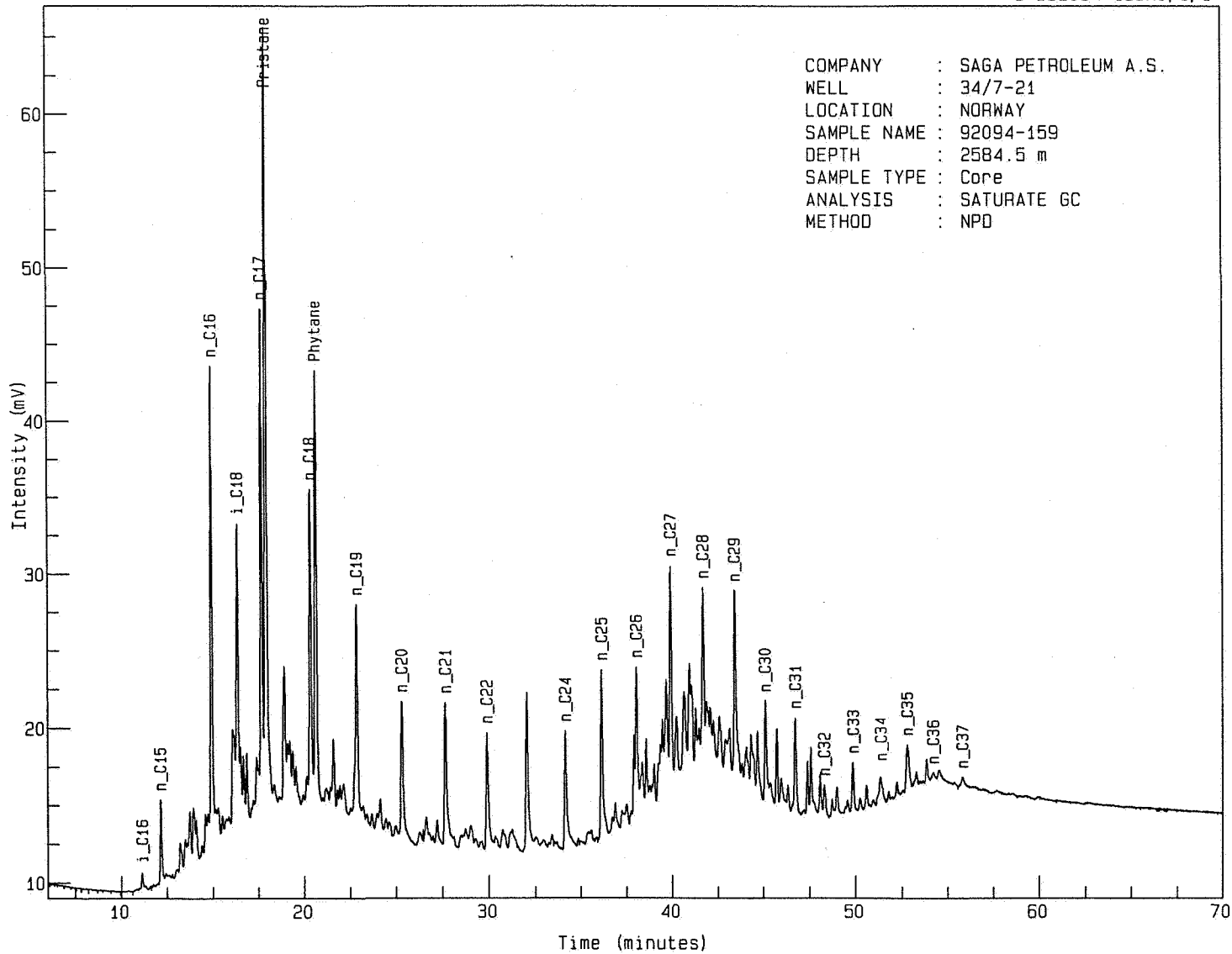
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5 S92094-159R0, 1, 1

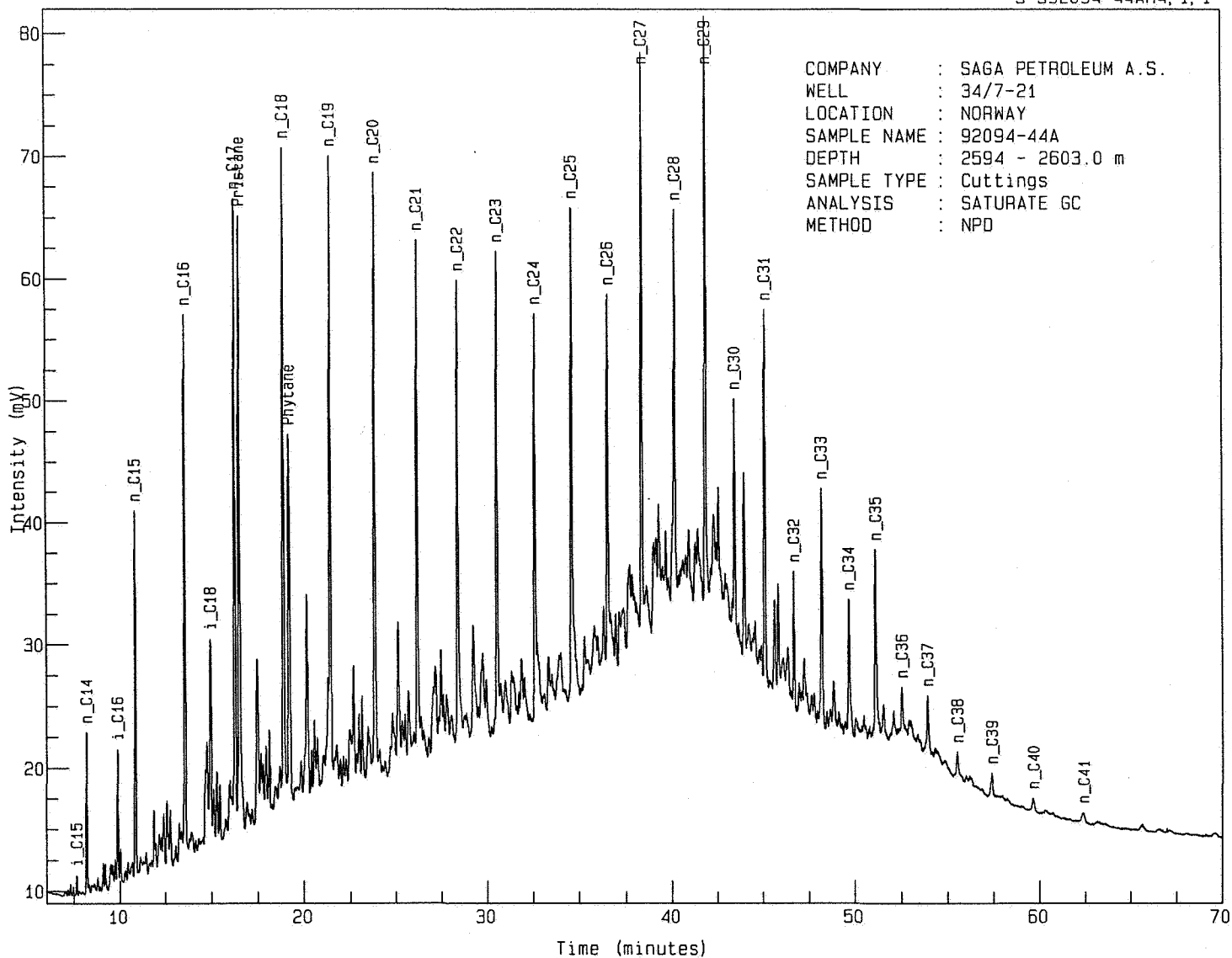
COMPANY : SAGA PETROLEUM A.S.
WELL : 34/7-21
LOCATION : NORWAY
SAMPLE NAME : 92094-159
DEPTH : 2584.5 m
SAMPLE TYPE : Core
ANALYSIS : SATURATE GC
METHOD : NPD

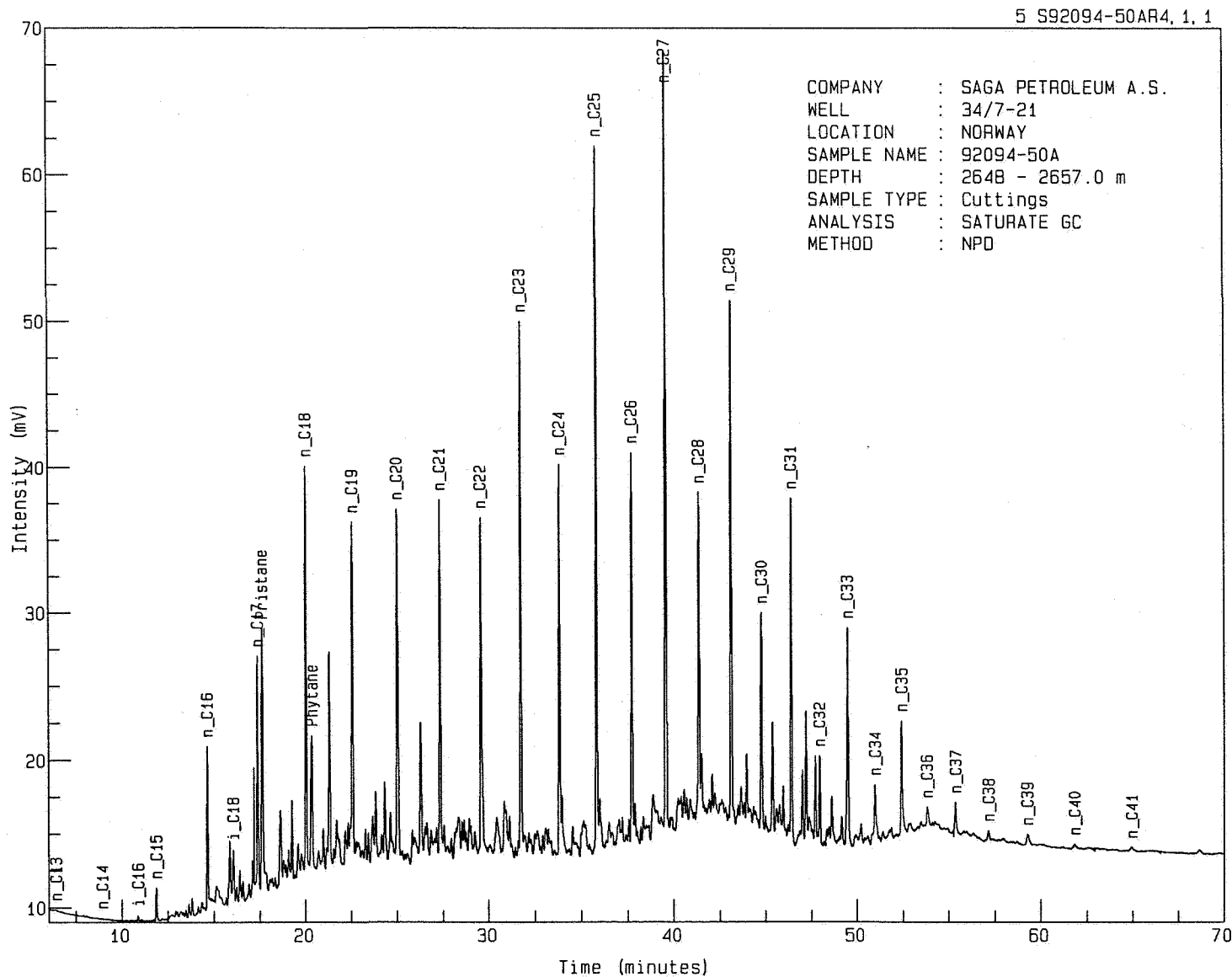
SLMEMO/93/628 Page 123 of 204



5 S92094-44AR4, 1, 1

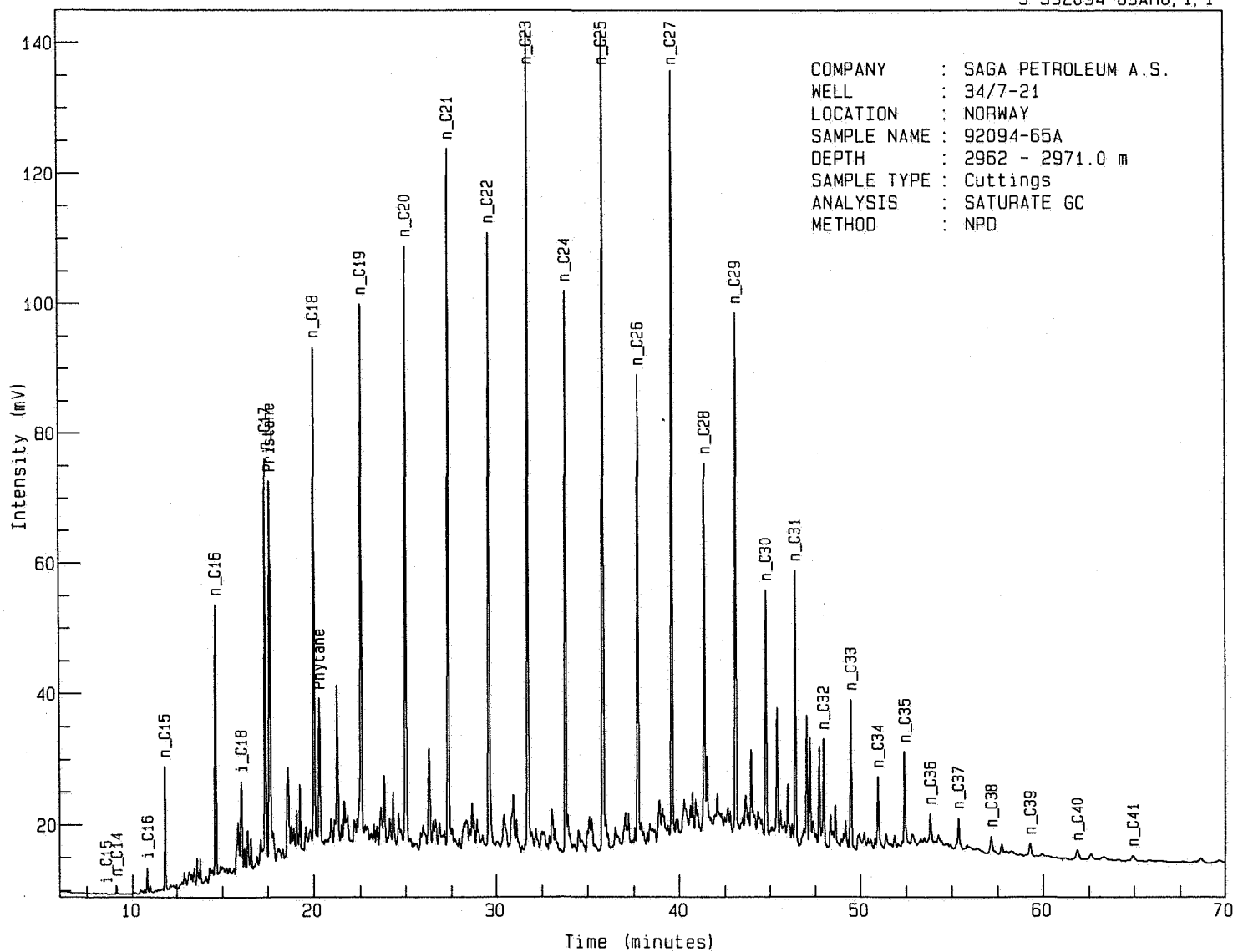
COMPANY : SAGA PETROLEUM A.S.
WELL : 34/7-21
LOCATION : NORWAY
SAMPLE NAME : 92094-44A
DEPTH : 2594 - 2603.0 m
SAMPLE TYPE : Cuttings
ANALYSIS : SATURATE GC
METHOD : NPD





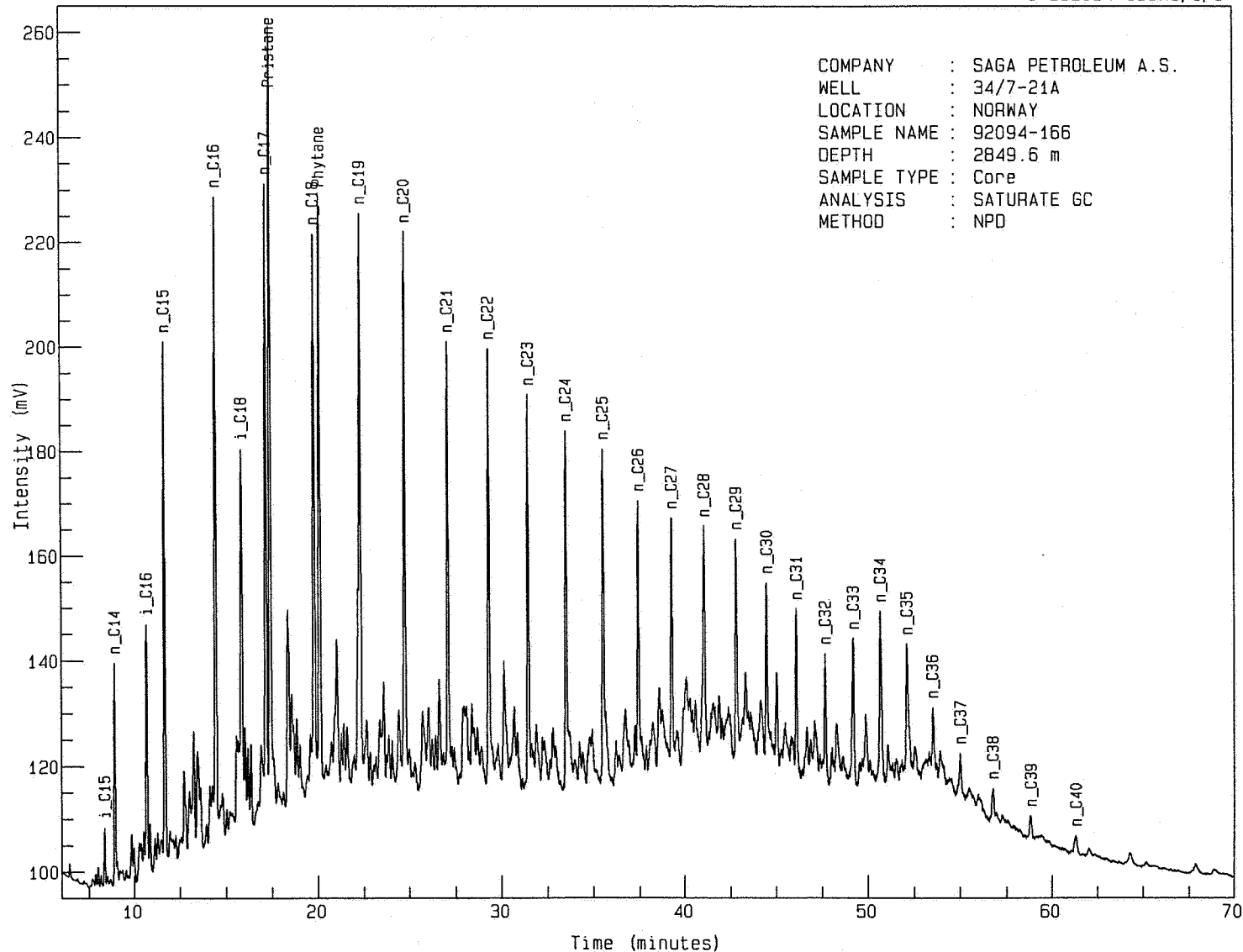
5 S92094-65ARO, 1, 1

COMPANY : SAGA PETROLEUM A.S.
WELL : 34/7-21
LOCATION : NORWAY
SAMPLE NAME : 92094-65A
DEPTH : 2962 - 2971.0 m
SAMPLE TYPE : Cuttings
ANALYSIS : SATURATE GC
METHOD : NPD



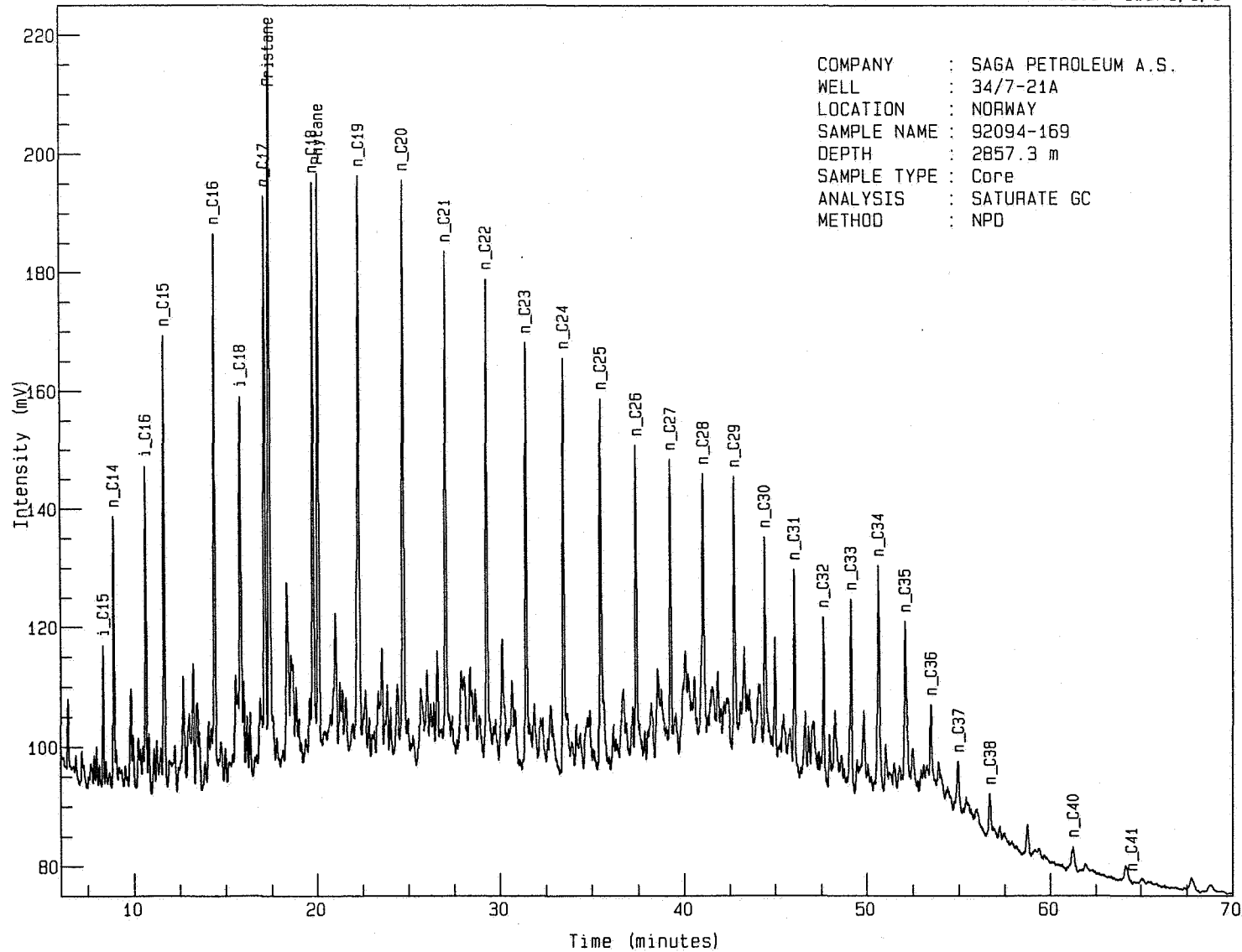
6 S92094-166R1, 1, 1

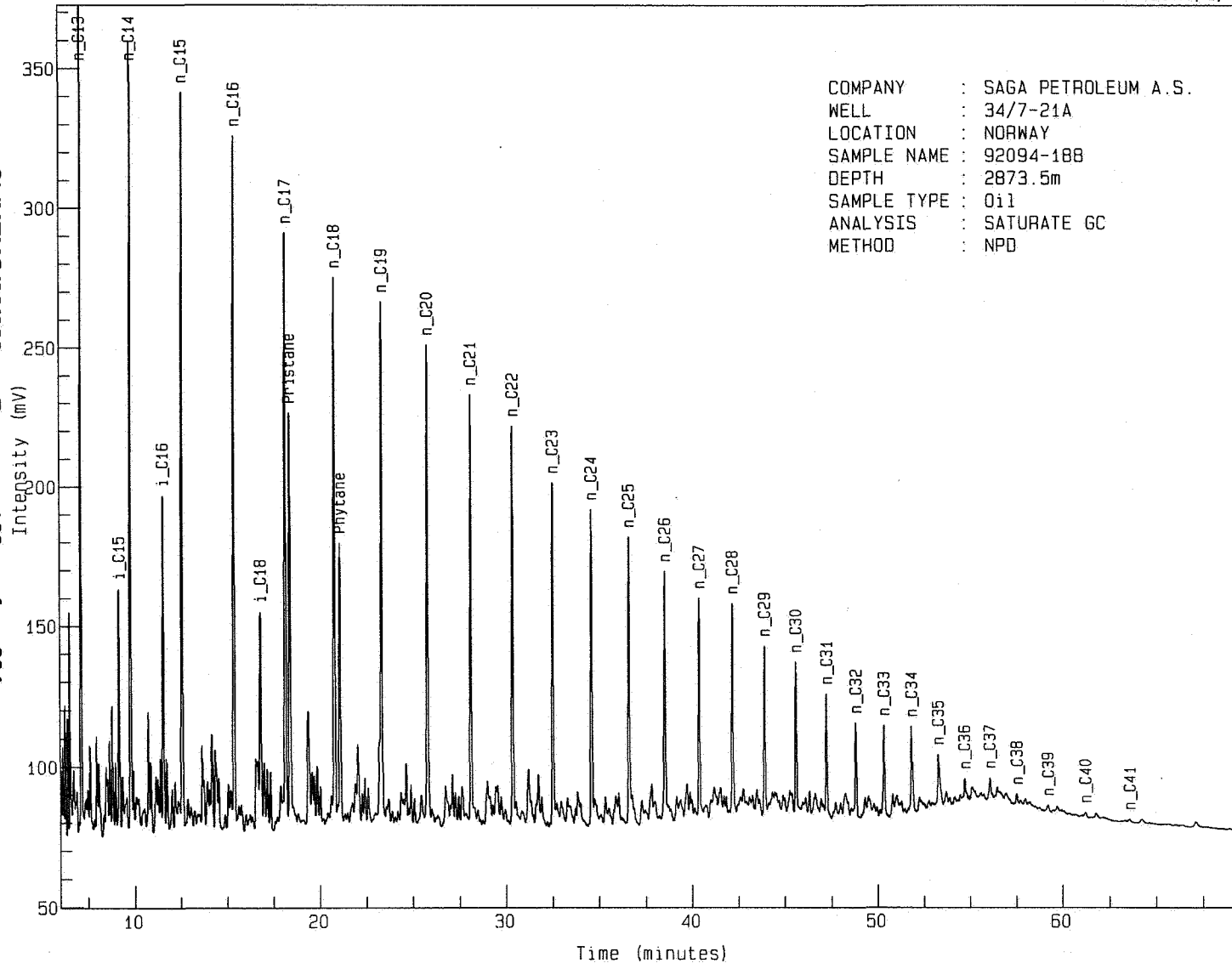
COMPANY : SAGA PETROLEUM A.S.
WELL : 34/7-21A
LOCATION : NORWAY
SAMPLE NAME : 92094-166
DEPTH : 2849.6 m
SAMPLE TYPE : Core
ANALYSIS : SATURATE GC
METHOD : NPD



6 S92094-169R1, 1, 1

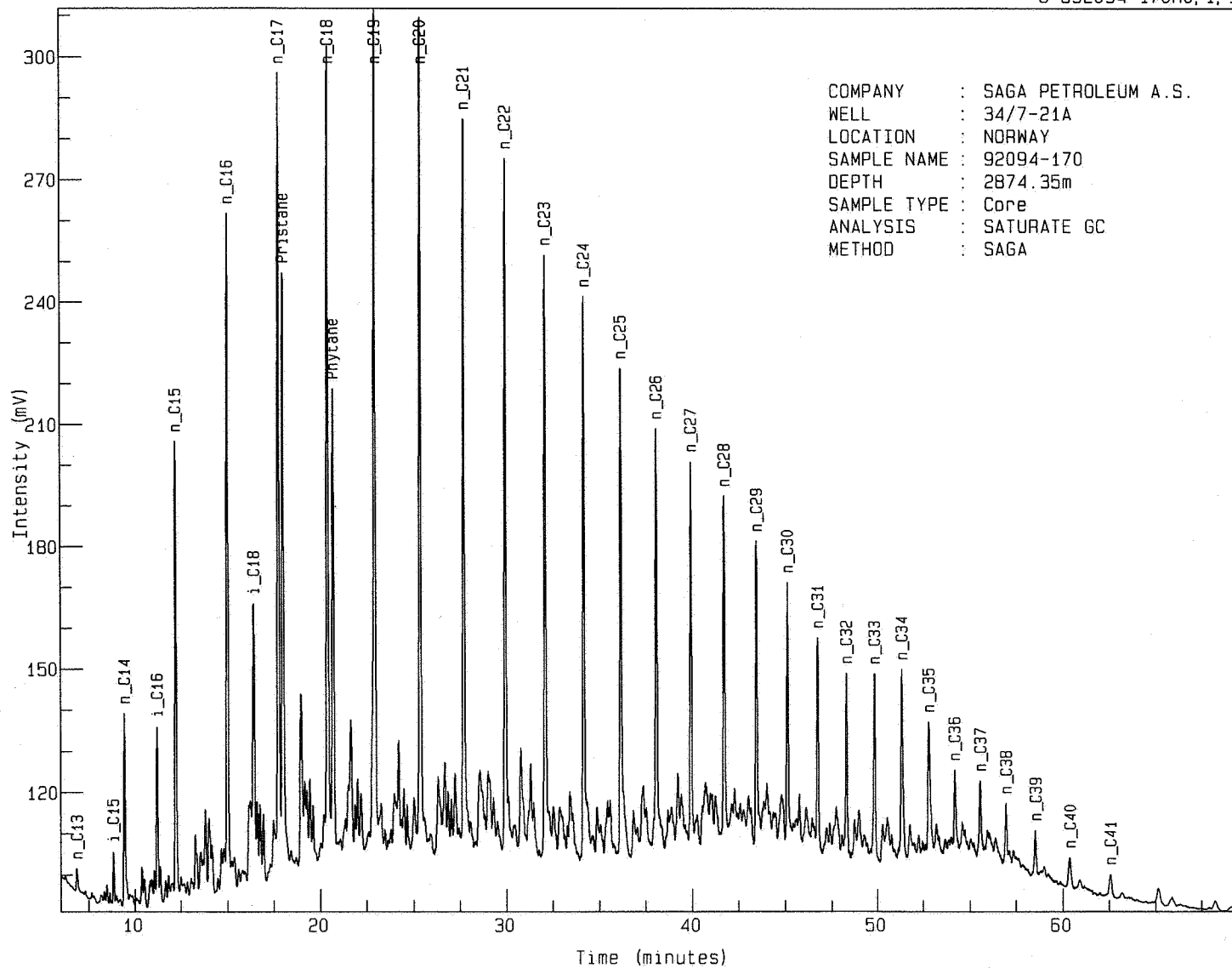
COMPANY : SAGA PETROLEUM A.S.
WELL : 34/7-21A
LOCATION : NORWAY
SAMPLE NAME : 92094-169
DEPTH : 2857.3 m
SAMPLE TYPE : Core
ANALYSIS : SATURATE GC
METHOD : NPD



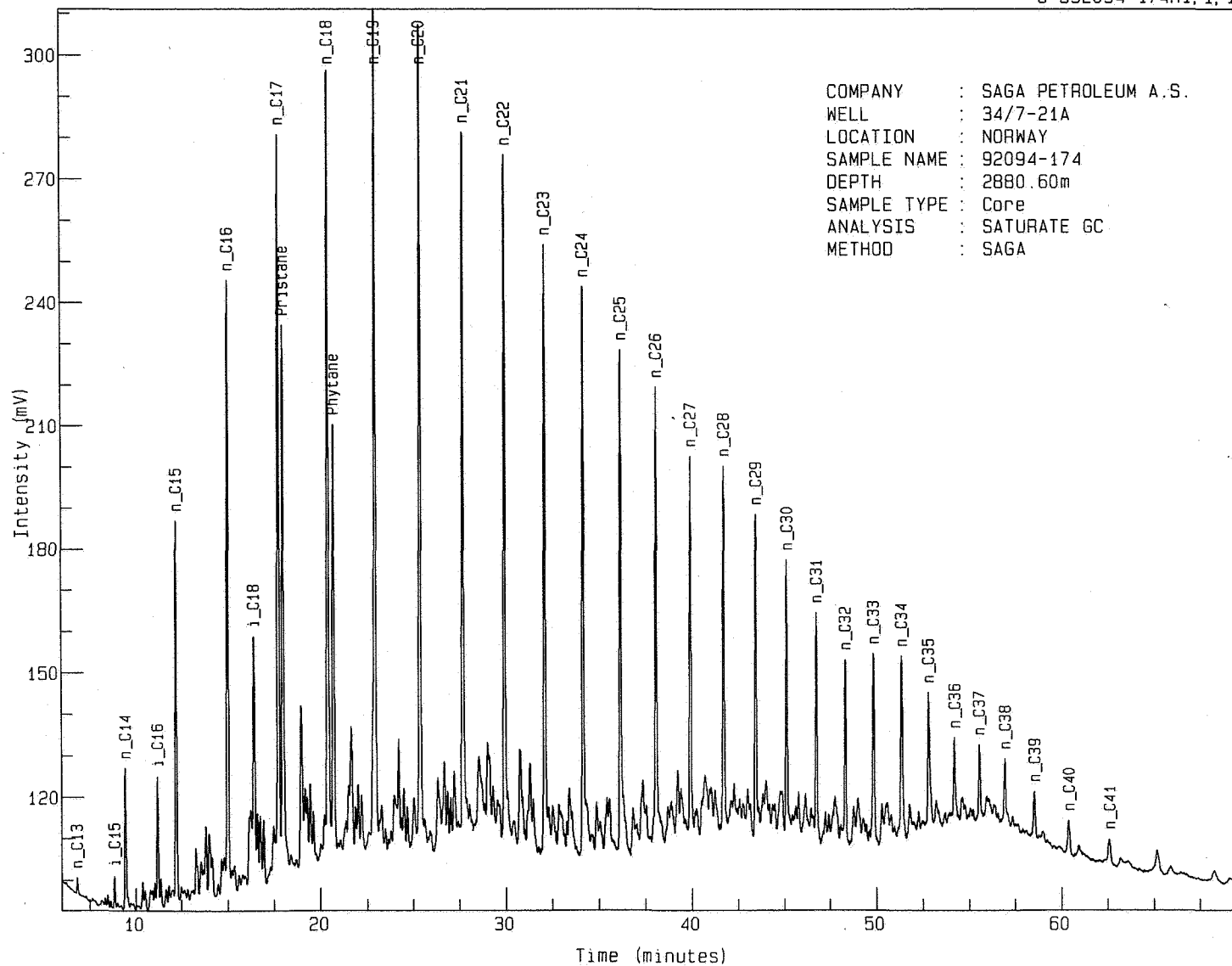


6 S92094-170R0, 1, 1

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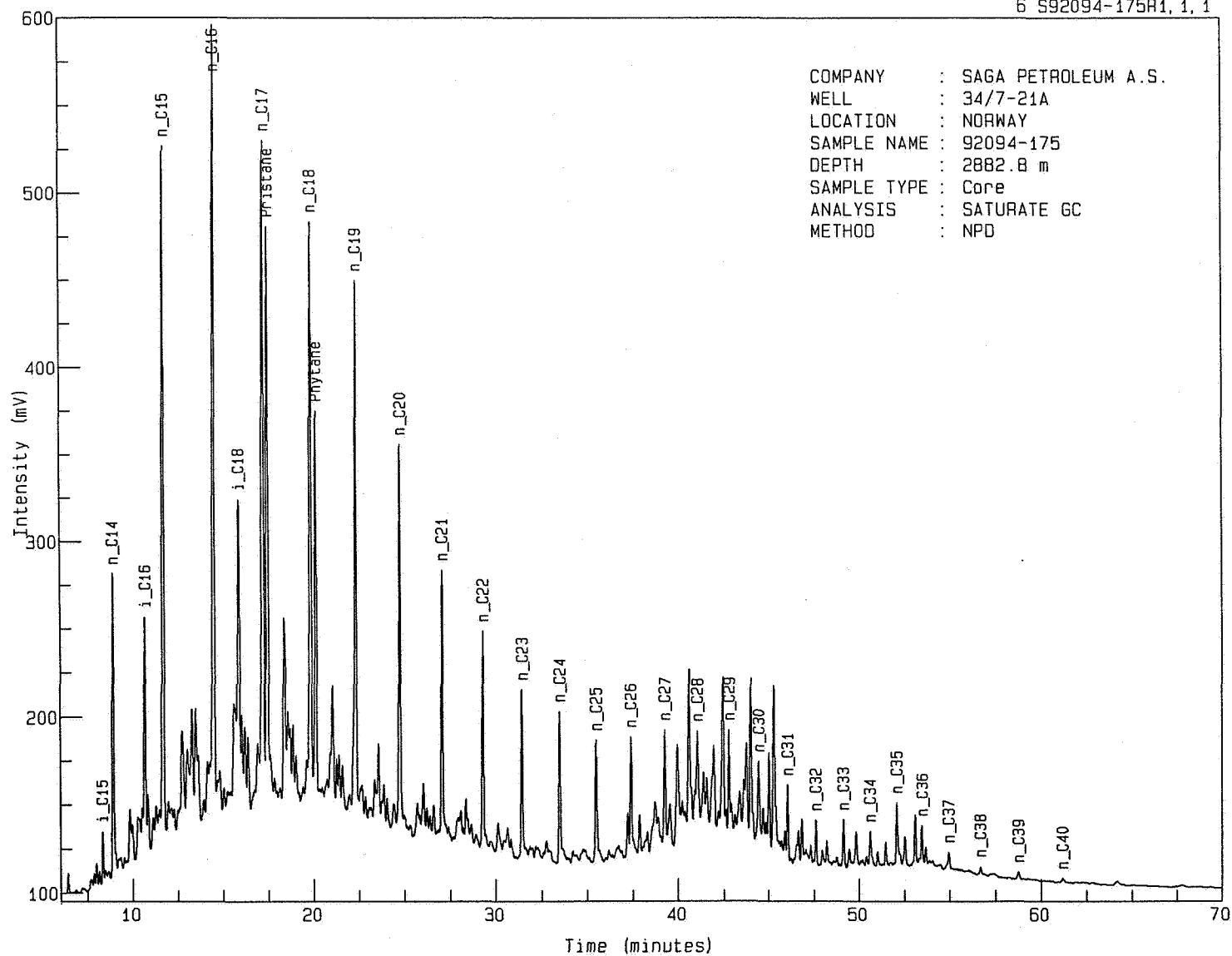


6 S92094-174R1, 1, 1

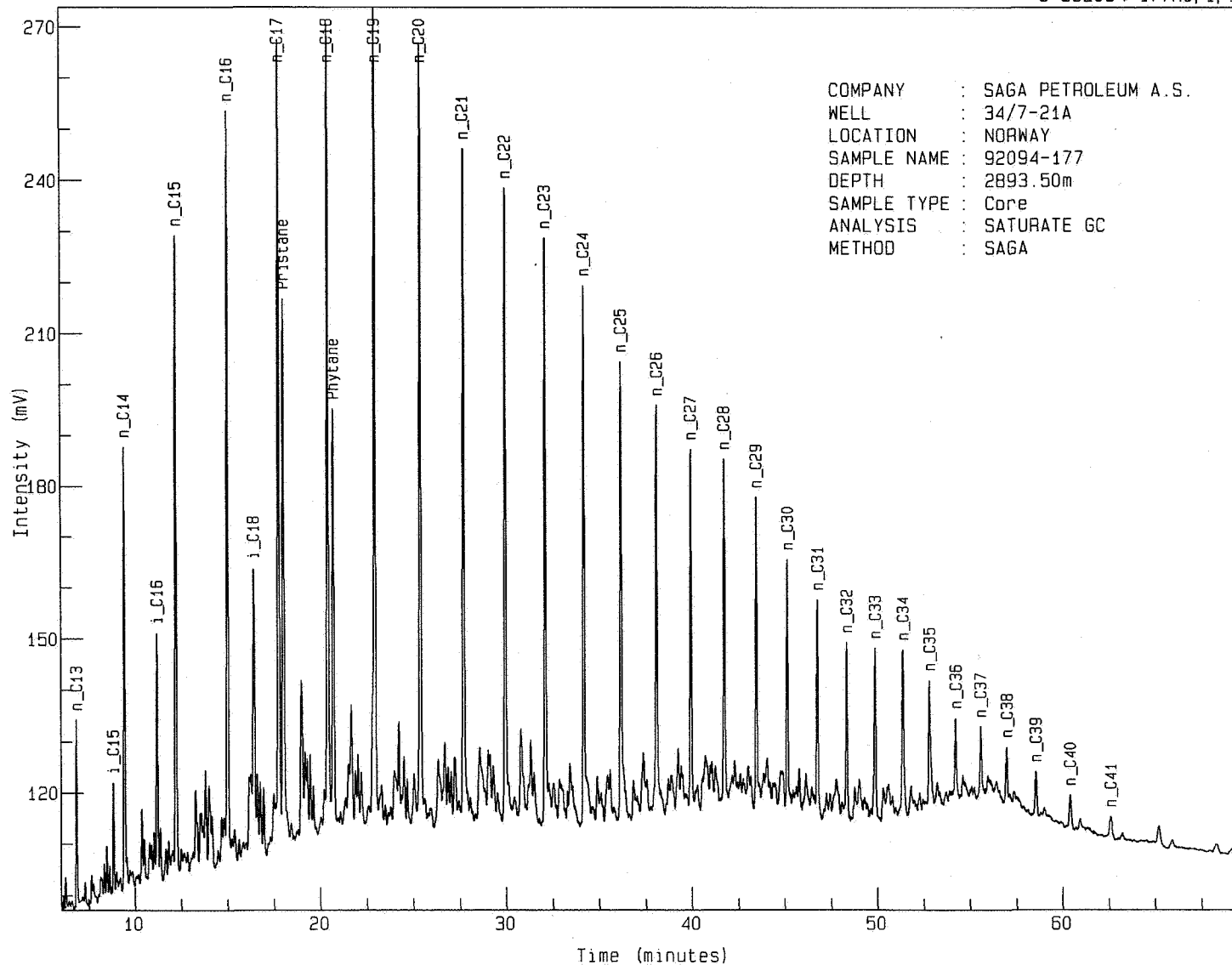


6 S92094-175R1, 1, 1

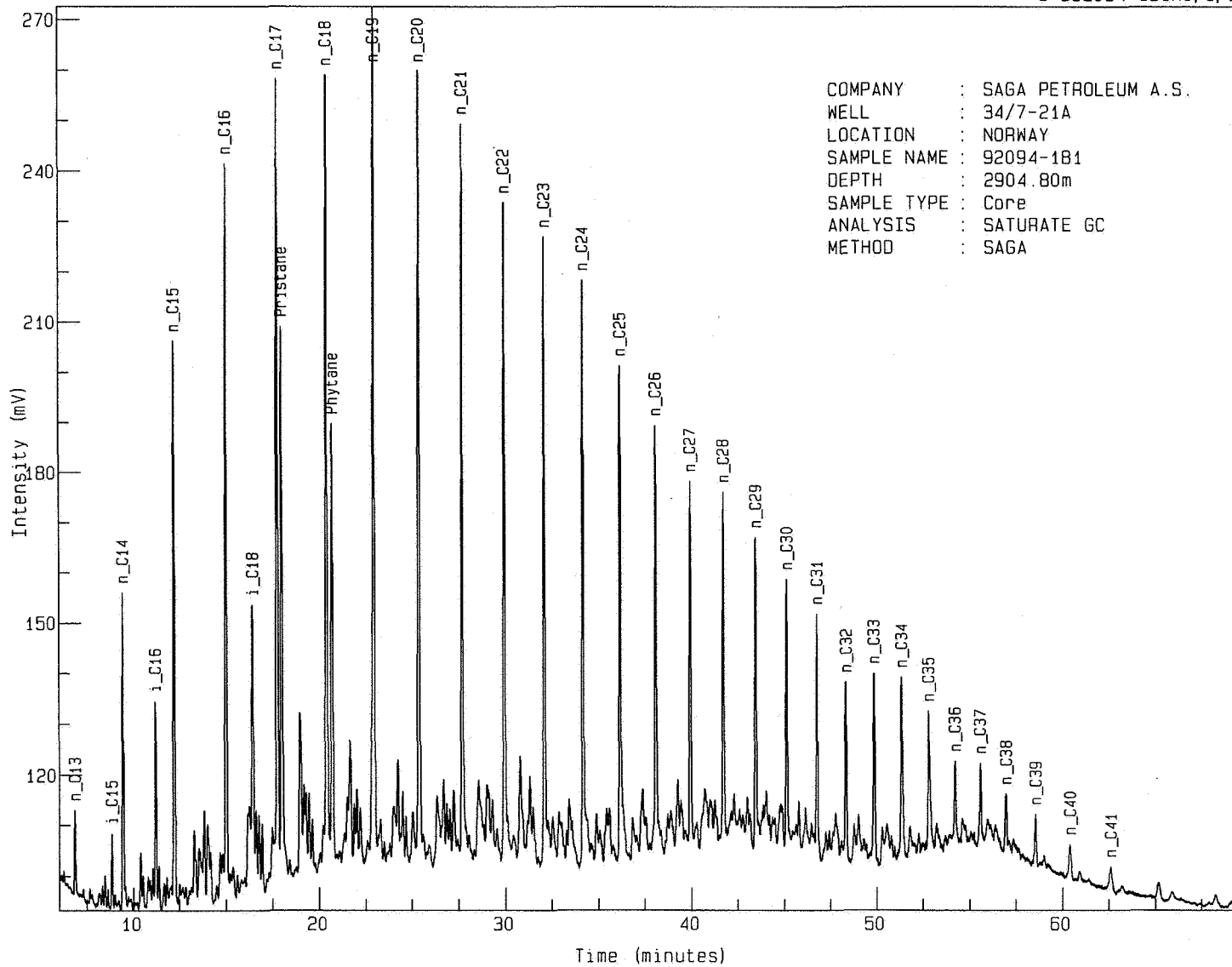
COMPANY : SAGA PETROLEUM A.S.
WELL : 34/7-21A
LOCATION : NORWAY
SAMPLE NAME : 92094-175
DEPTH : 2882.8 m
SAMPLE TYPE : Core
ANALYSIS : SATURATE GC
METHOD : NPD



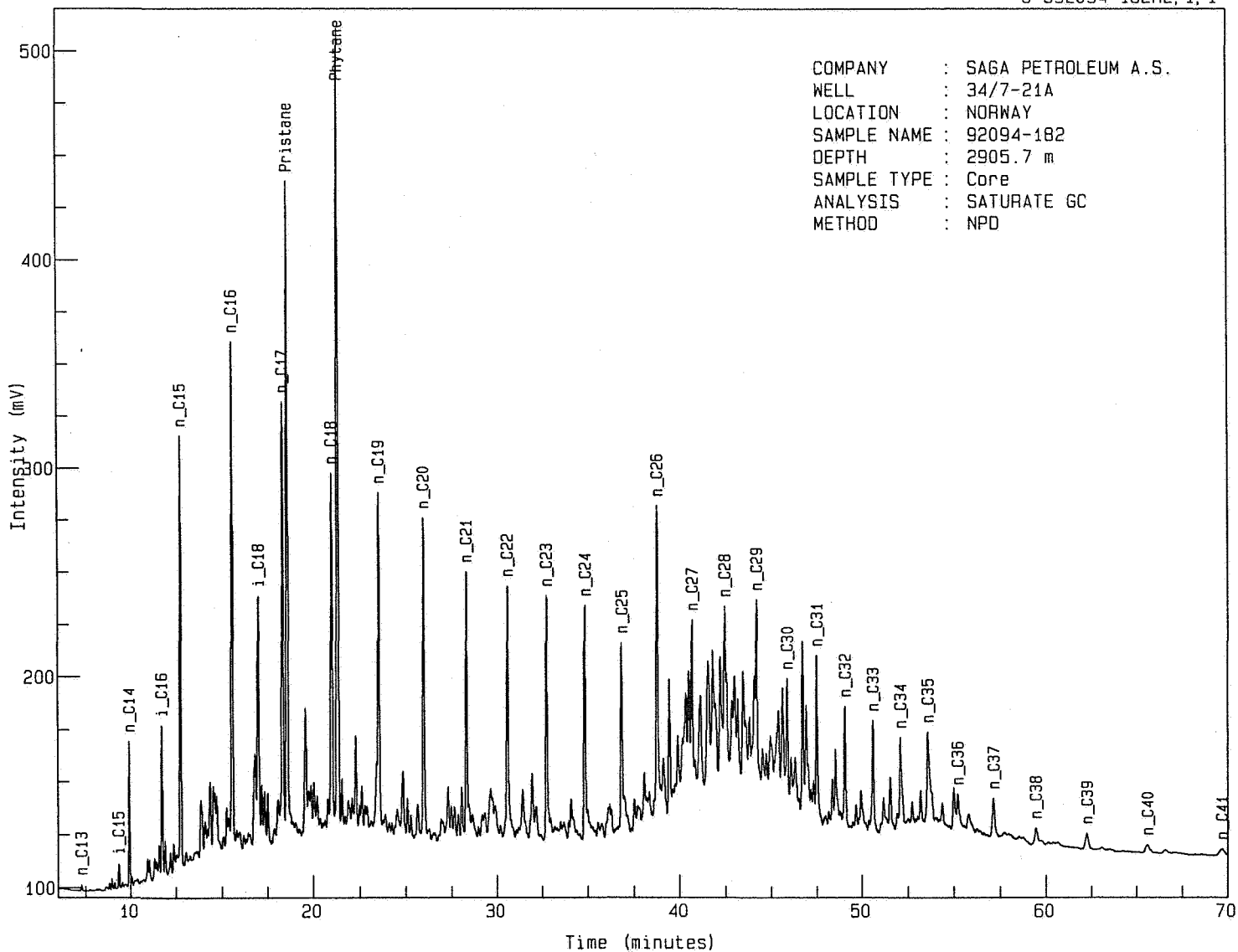
6 S92094-177R0, 1, 1



6 S92094-181R0, 1, 1



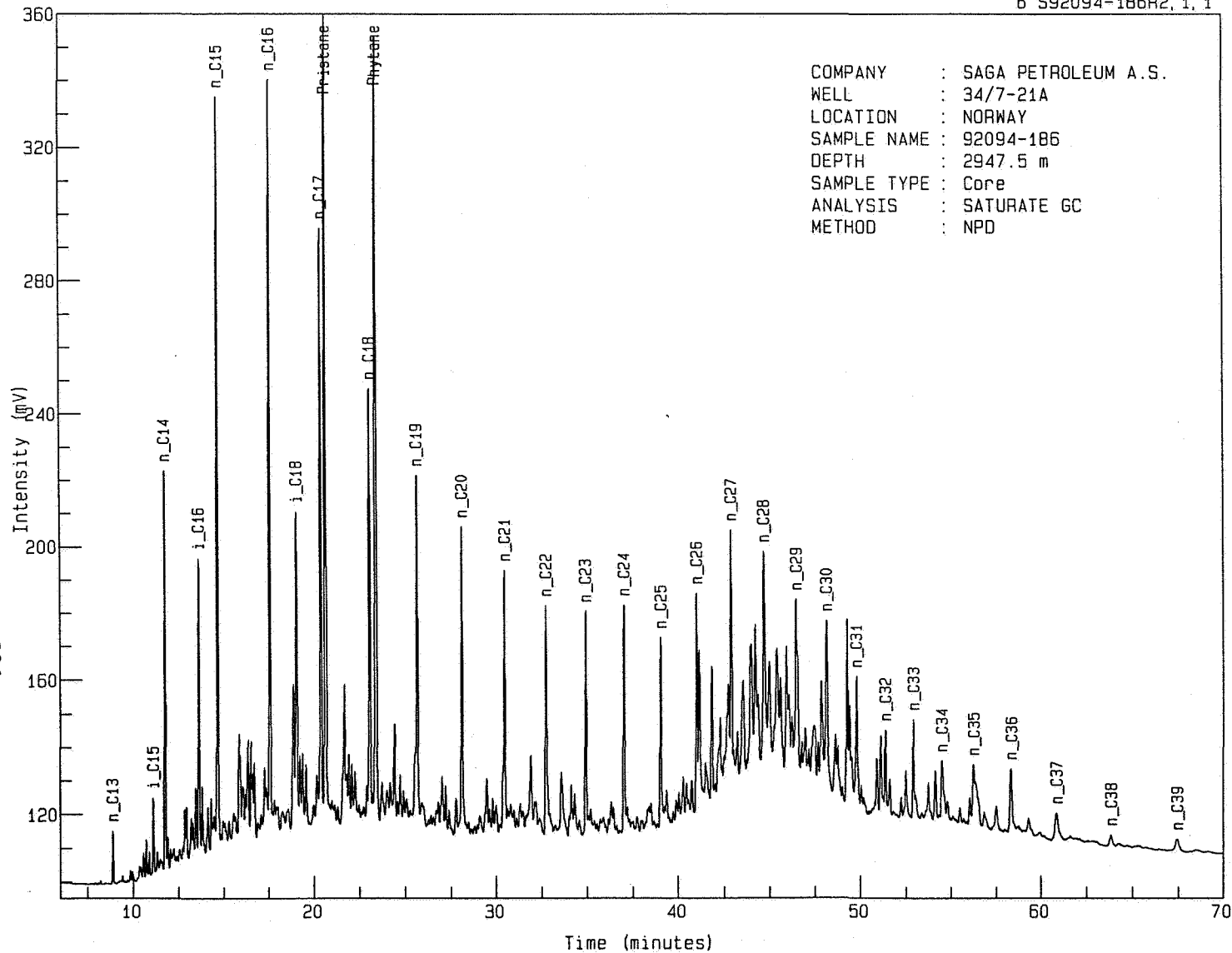
6 S92094-182R2, 1, 1



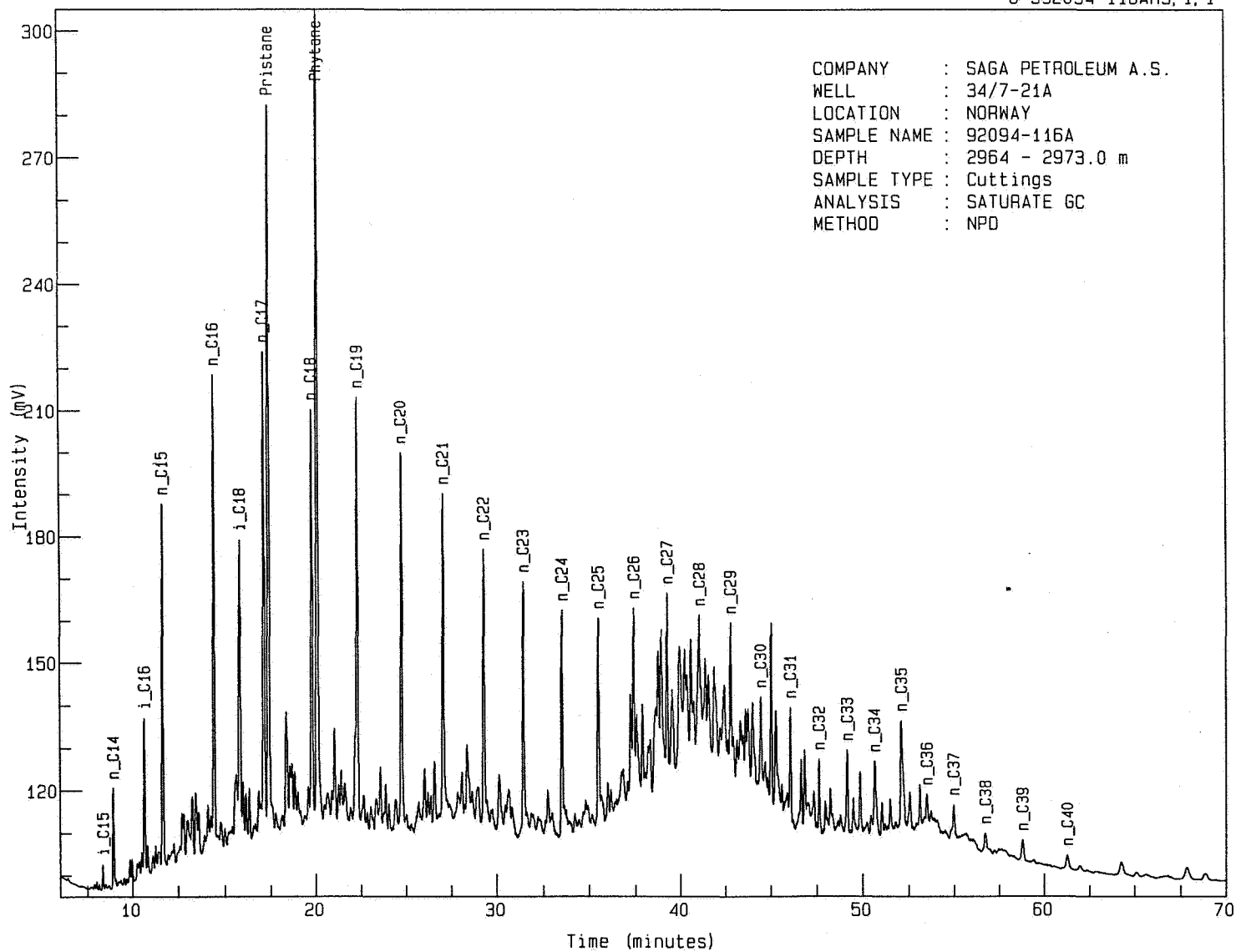
6 S92094-186R2, 1, 1

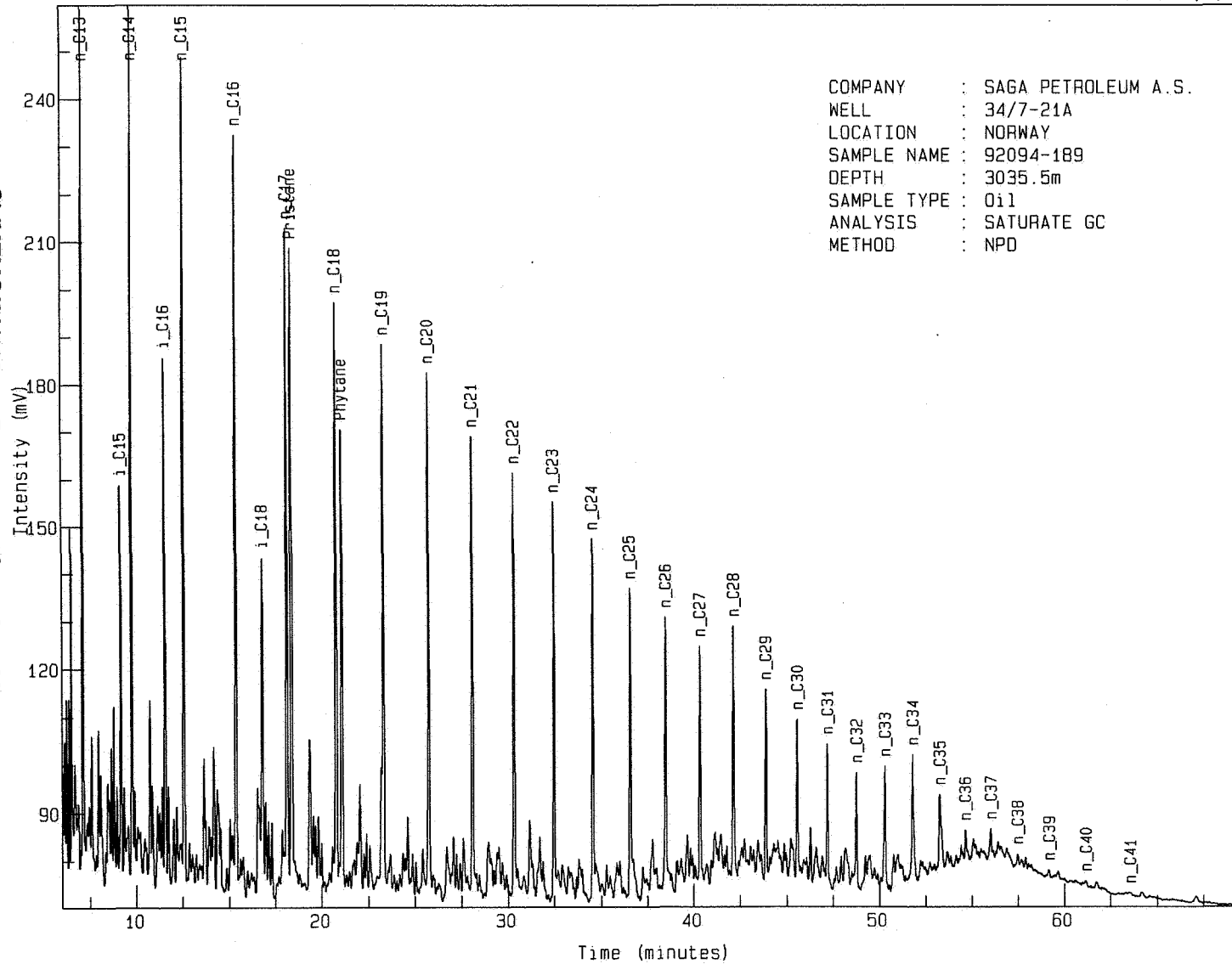
COMPANY : SAGA PETROLEUM A.S.
WELL : 34/7-21A
LOCATION : NORWAY
SAMPLE NAME : 92094-186
DEPTH : 2947.5 m
SAMPLE TYPE : Core
ANALYSIS : SATURATE GC
METHOD : NPD

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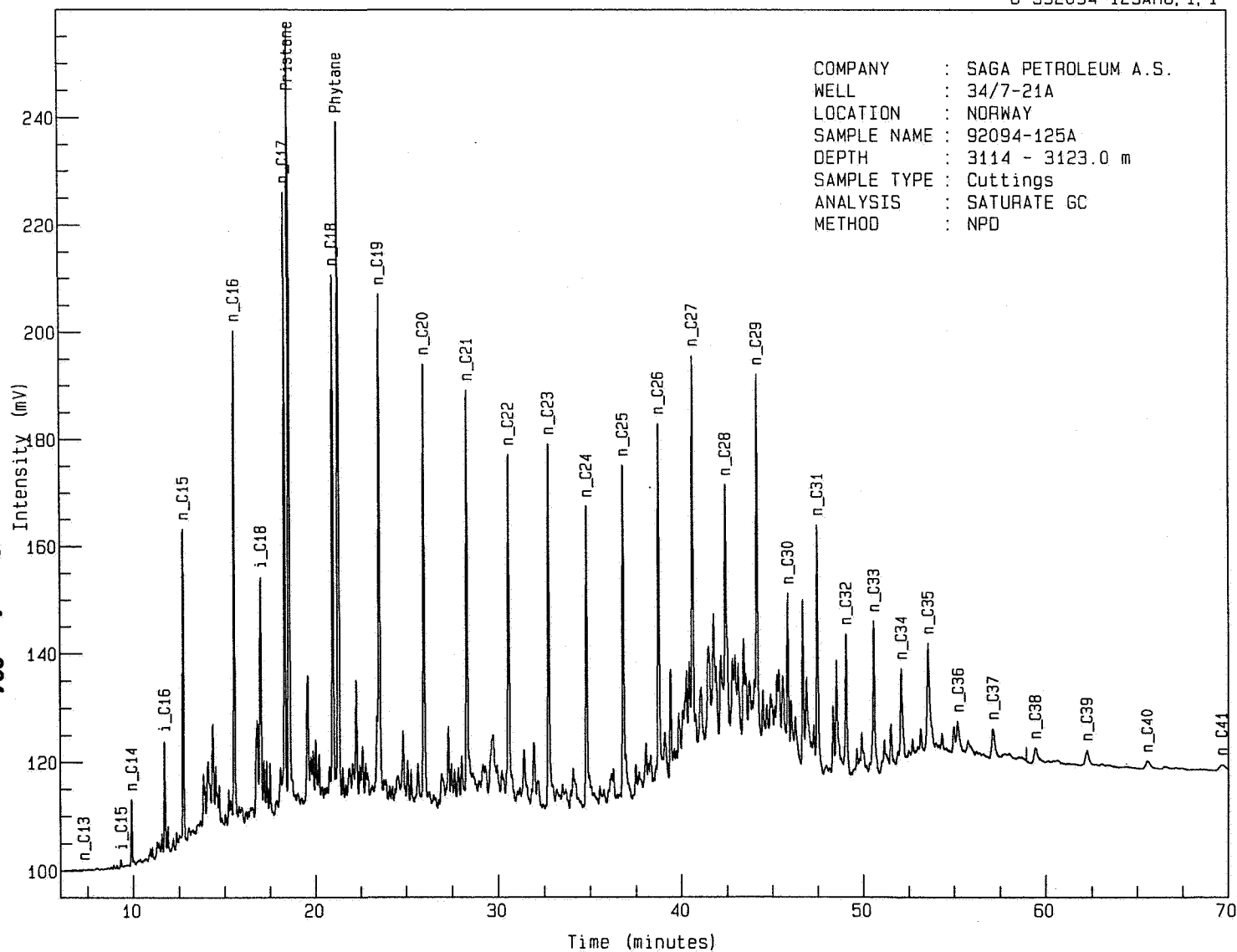
6 S92094-116AR5, 1, 1





6 S92094-125AR6.1, 1

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AROMATIC GC PEAK HEIGHT DATA

Table 17

Well Name	Nation	Sample Name	Upper Depth	Lower Depth	Sample Type	Lith	2 MN uV	1 MN uV	BiPh uV	2 EN uV	1 EN uV	2,6 + 2,7 DMN uV	1,5 DMN uV	1,3,7 TMN uV	2,3,6 TMN uV	1,3,6 TMN uV	1,3,5+1,4,6 TMN uV
34/7-21	NOR	92094-35A	2400.0	2410.0	CUT	Clyst								25		26	
34/7-21	NOR	92094-163	DST 1	DST 1	Oil		5415	4750	1333	1483	928	5869	1810	2477	2375	3946	4749
34/7-21	NOR	92094-164	2498.5	2498.5	Oil		2013	2180	718	816	585	3902	1407	2942	2916	4898	6525
34/7-21	NOR	92094-134	2518.7	2518.7	CCP	Sst	99	150	248	254	184	1774	726	2643	2318	3279	4012
34/7-21	NOR	92094-138	2537.45	2537.45	CCP	Sst	671	790	832	848	656	5294	1477	7012	5648	8533	10023
34/7-21	NOR	92094-140	2541.2	2541.2	CCP	Sst	1193	1531	1329	1386	989	8507	2911	6171	7127	10327	13032
34/7-21	NOR	92094-147	2558.0	2558.0	CCP	Clyst		60	23	59	63	541	277	1674	1931	3068	3283
34/7-21	NOR	92094-152	2566.8	2566.8	CCP	Sst	110	150	175	334	287	1943	914	2395	2345	4231	5392
34/7-21	NOR	92094-153	2567.3	2567.3	CCP	Sst	90	109	133	233	205	1372	559	1982	1808	3542	4276
34/7-21	NOR	92094-155	2570.6	2570.6	CCP	Clyst	137	310	734	1263	956	9061	3753	12685	13227	18226	19742
34/7-21	NOR	92094-159	2584.5	2584.5	CCP	Clyst											
34/7-21	NOR	92094-44A	2594.0	2603.0	CUT	Clyst	161	70	36	12	13	54	36	691	702	1114	1547
34/7-21	NOR	92094-50A	2648.0	2657.0	CUT	Clyst	24	19	25	11	9	20	10	202	130	237	228
34/7-21	NOR	92094-55A	2693.0	2702.0	CUT	Clyst						30	25	364	525	689	829
34/7-21	NOR	92094-65A	2962.0	2971.0	CUT	Clyst	41	29	44	16	12	20	15	148	144	211	234
34/7-21A	NOR	92094-166	2849.6	2849.6	CCP	Sst	57	47	294	278	216	2476	933	2664	2503	3892	5281
34/7-21A	NOR	92094-169	2857.3	2857.3	CCP	Lst						41	25	437	580	696	1026
34/7-21A	NOR	92094-188	2873.5	2873.5	Oil		17129	16294	4275	4270	2945	17090	5662	6424	6346	10681	11985
34/7-21A	NOR	92094-170	2874.35	2874.35	CCP	Sst	1395	1836	1588	1466	1037	8920	2649	7533	6301	9124	10301
34/7-21A	NOR	92094-174	2880.6	2880.6	CCP	Sst	424	587	567	565	411	3904	1371	3039	3367	5209	6036
34/7-21A	NOR	92094-175	2882.8	2882.8	CCP	Clyst/Sh	14	12	124	134	107	1611	613	2298	2221	3383	3845
34/7-21A	NOR	92094-177	2893.5	2893.5	CCP	slty Sst			123	162	123	1866	760	3786	5170	6329	7604
34/7-21A	NOR	92094-181	2904.8	2904.8	CCP	slty Sst	17	37	78	109	83	1442	649	4872	5629	6802	8371
34/7-21A	NOR	92094-182	2905.7	2905.7	CCP	Clyst	13	35	21	49	56	549	296	2224	2188	3178	3676
34/7-21A	NOR	92094-186	2947.5	2947.5	CCP	Clyst		42	18	15	21	113	92	1448	1434	2245	2644
34/7-21A	NOR	92094-116A	2964.0	2973.0	CUT	Clyst		35	15	16	23	80	47	481	486	718	889
34/7-21A	NOR	92094-189	3035.5	3035.5	Oil		13303	11800	3135	4893	3345	11112	3907	5066	2685	8882	10152
34/7-21A	NOR	92094-125A	3114.0	3123.0	CUT	Clyst								29	18	28	20

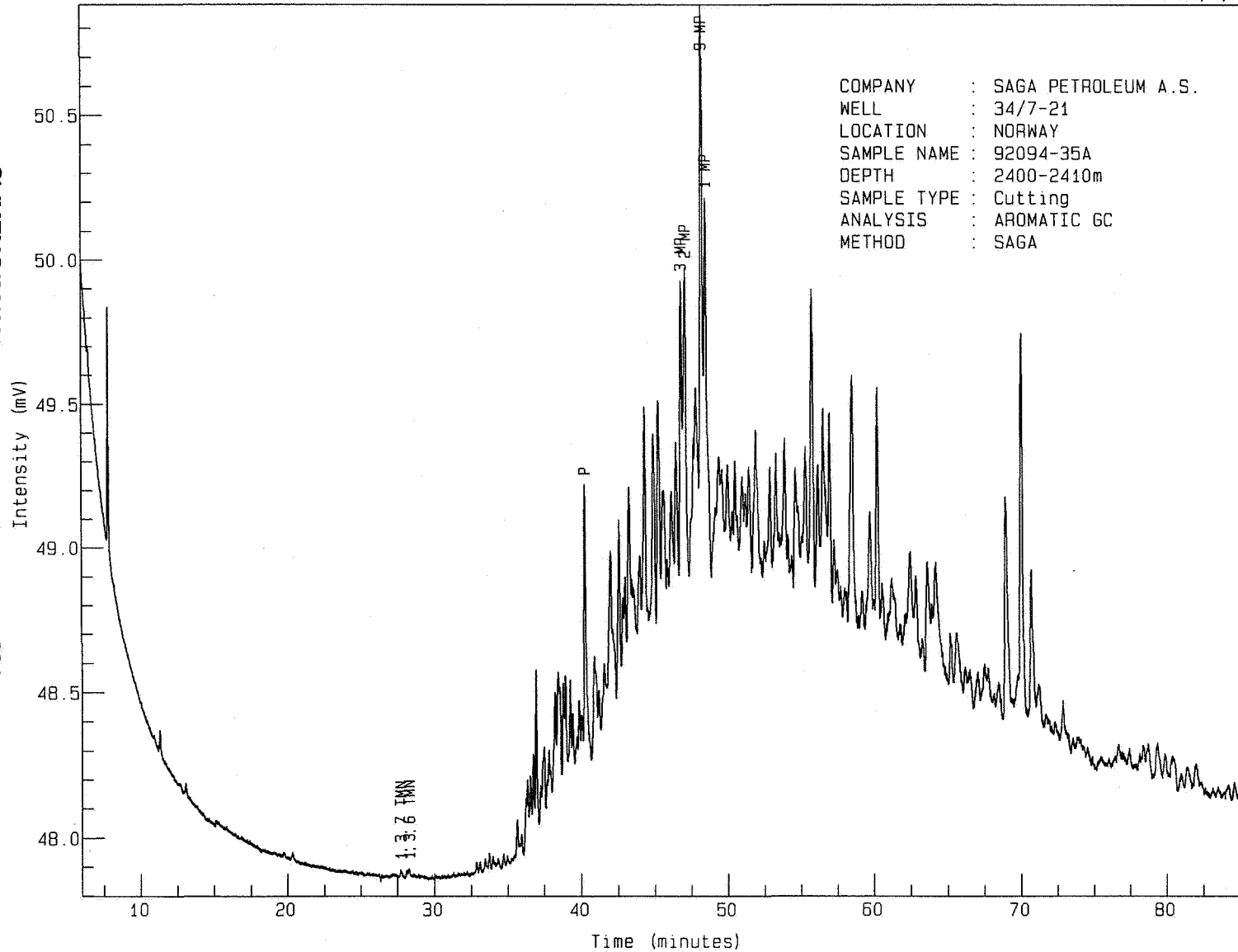
AROMATIC GC PEAK HEIGHT DATA

Table 17

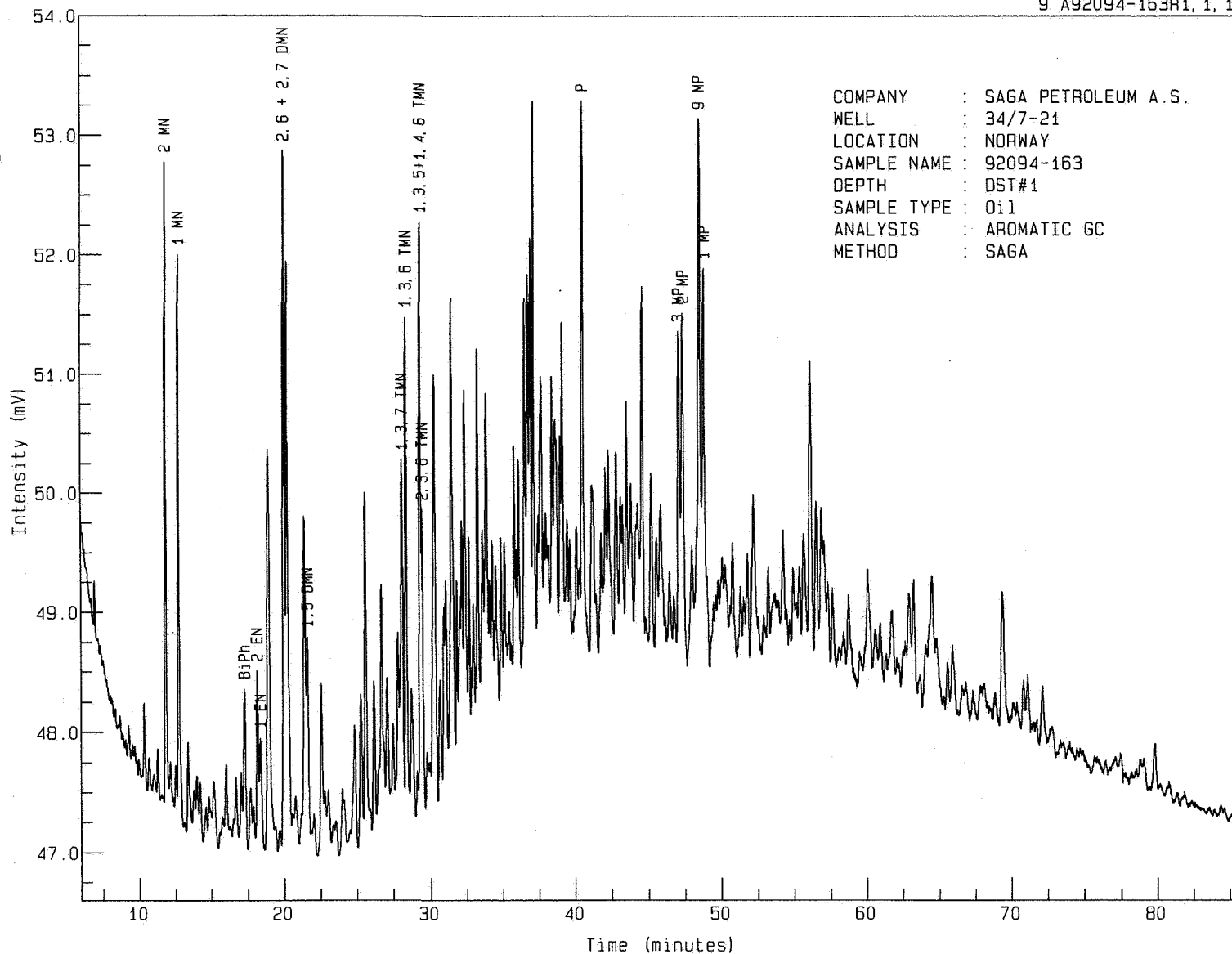
Well Name	Nation	Sample Name	Upper Depth	Lower Depth	Sample Type	Lith	P uV	3MP uV	2MP uV	9MP uV	1MP uV	2MP 1MP	MPI 1	DBT uV	4 MDBT uV	3 & 2 MDBT uV	1 MDBT uV
34/7-21	NOR	92094-35A	2400.0	2410.0	CUT	Clyst	884	1010	1056	1747	1181	0.89	0.81	6551	33858	11077	4917
34/7-21	NOR	92094-163	DST 1	DST 1	Oil		4266	2792	2945	3871	2615	1.13	0.80	2800	4096	1273	587
34/7-21	NOR	92094-164	2498.5	2498.5	Oil		6468	3934	3410	5746	3471	0.98	0.70	44511	56073	18380	8298
34/7-21	NOR	92094-134	2518.7	2518.7	CCP	Sst	7707	5497	5315	12696	6595	0.81	0.60	12277	37241	10378	3920
34/7-21	NOR	92094-138	2537.45	2537.45	CCP	Sst	14006	14283	7995	12621	9279	0.86	0.93	56199	132917	36810	13929
34/7-21	NOR	92094-140	2541.2	2541.2	CCP	Sst	16484	9558	8947	13611	10074	0.89	0.69	51640	105993	29534	11643
34/7-21	NOR	92094-147	2558.0	2558.0	CCP	Clyst	4057	4052	840	2877	1695	0.50	0.85	154462	75475	70908	68700
34/7-21	NOR	92094-152	2566.8	2566.8	CCP	Sst	11807	4389	4412	6869	3217	1.37	0.60	2709	10734	3283	2019
34/7-21	NOR	92094-153	2567.3	2567.3	CCP	Sst	11689	4371	4307	7404	3650	1.18	0.57	4820	12042	4579	12560
34/7-21	NOR	92094-155	2570.6	2570.6	CCP	Clyst	24673	16732	13034	20788	19706	0.66	0.69	81043	110930	41297	21999
34/7-21	NOR	92094-159	2584.5	2584.5	CCP	Clyst	829	1486	333	2534	776	0.43	0.66	59860	21660	20709	27106
34/7-21	NOR	92094-44A	2594.0	2603.0	CUT	Clyst	6233	2582	1802	3954	2780	0.65	0.51	3449	2649	1366	2298
34/7-21	NOR	92094-50A	2648.0	2657.0	CUT	Clyst	4175	1748	945	1967	1552	0.61	0.53	Fraction too weak analysis not possible			
34/7-21	NOR	92094-55A	2693.0	2702.0	CUT	Clyst	14090	3443	4137	7690	4194	0.99	0.44	Fraction too weak analysis not possible			
34/7-21	NOR	92094-65A	2962.0	2971.0	CUT	Clyst	3259	1530	825	1754	1123	0.73	0.58	1103	1479	629	486
34/7-21A	NOR	92094-166	2849.6	2849.6	CCP	Sst	8274	2834	2627	4702	2743	0.96	0.52	5028	8636	1422	1217
34/7-21A	NOR	92094-169	2857.3	2857.3	CCP	Lst	2482	1681	1183	2147	1683	0.70	0.68	12131	27447	6374	4834
34/7-21A	NOR	92094-188	2873.5	2873.5	Oil		9973	6492	6160	11039	7461	0.83	0.67	15057	26980	8215	3347
34/7-21A	NOR	92094-170	2874.35	2874.35	CCP	Sst	10508	6296	6636	10004	7288	0.91	0.70	7391	17535	13335	1736
34/7-21A	NOR	92094-174	2880.6	2880.6	CCP	Sst	8357	5224	4599	8298	5432	0.85	0.67	7435	19663	4730	1865
34/7-21A	NOR	92094-175	2882.8	2882.8	CCP	Clyst/Sh	4537	1715	1360	2448	1728	0.79	0.53	395801	634295	225862	65637
34/7-21A	NOR	92094-177	2893.5	2893.5	CCP	slty Sst	15173	12288	8438	13043	10942	0.77	0.79	17038	37594	11944	5497
34/7-21A	NOR	92094-181	2904.8	2904.8	CCP	slty Sst	21803	11252	11638	15792	14451	0.81	0.66	3824	11104	2919	1233
34/7-21A	NOR	92094-182	2905.7	2905.7	CCP	Clyst	5048	4107	1369	3703	2665	0.51	0.72	324090	161608	126404	96299
34/7-21A	NOR	92094-186	2947.5	2947.5	CCP	Clyst	3875	4395	957	3850	2435	0.39	0.79	201856	72893	76939	63979
34/7-21A	NOR	92094-116A	2964.0	2973.0	CUT	Clyst	2736	7253	1193	3723	2484	0.48	1.42	20321	27593	27677	20397
34/7-21A	NOR	92094-189	3035.5	3035.5	Oil		2429	1837	2297	3599	1045	2.20	0.88	1532	2570	1426	950
34/7-21A	NOR	92094-125A	3114.0	3123.0	CUT	Clyst	1559	1640	1051	2119	1476	0.71	0.78	257783	141950	100380	58238

9 A92094-35AR0, 1, 1

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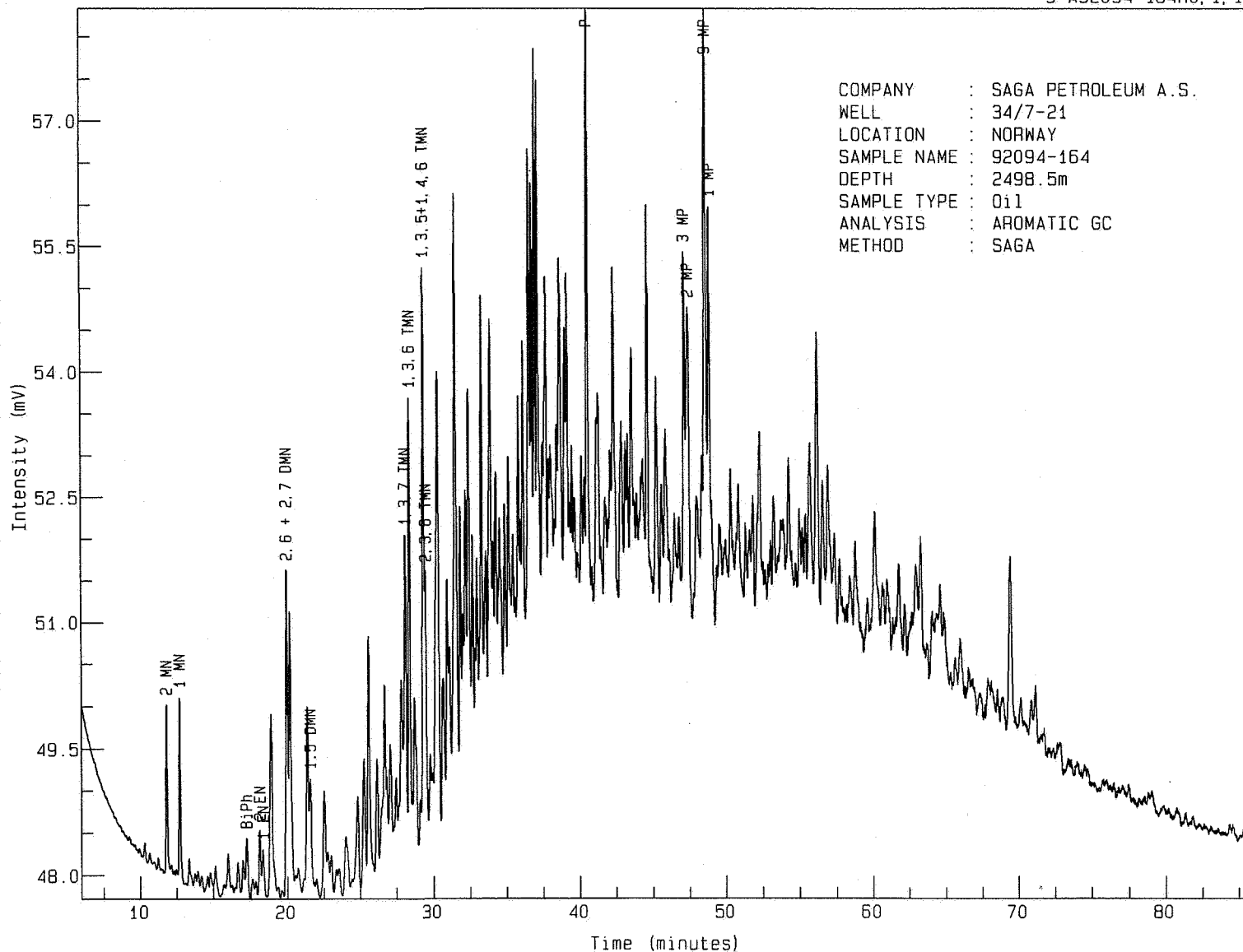


9 A92094-163R1, 1, 1

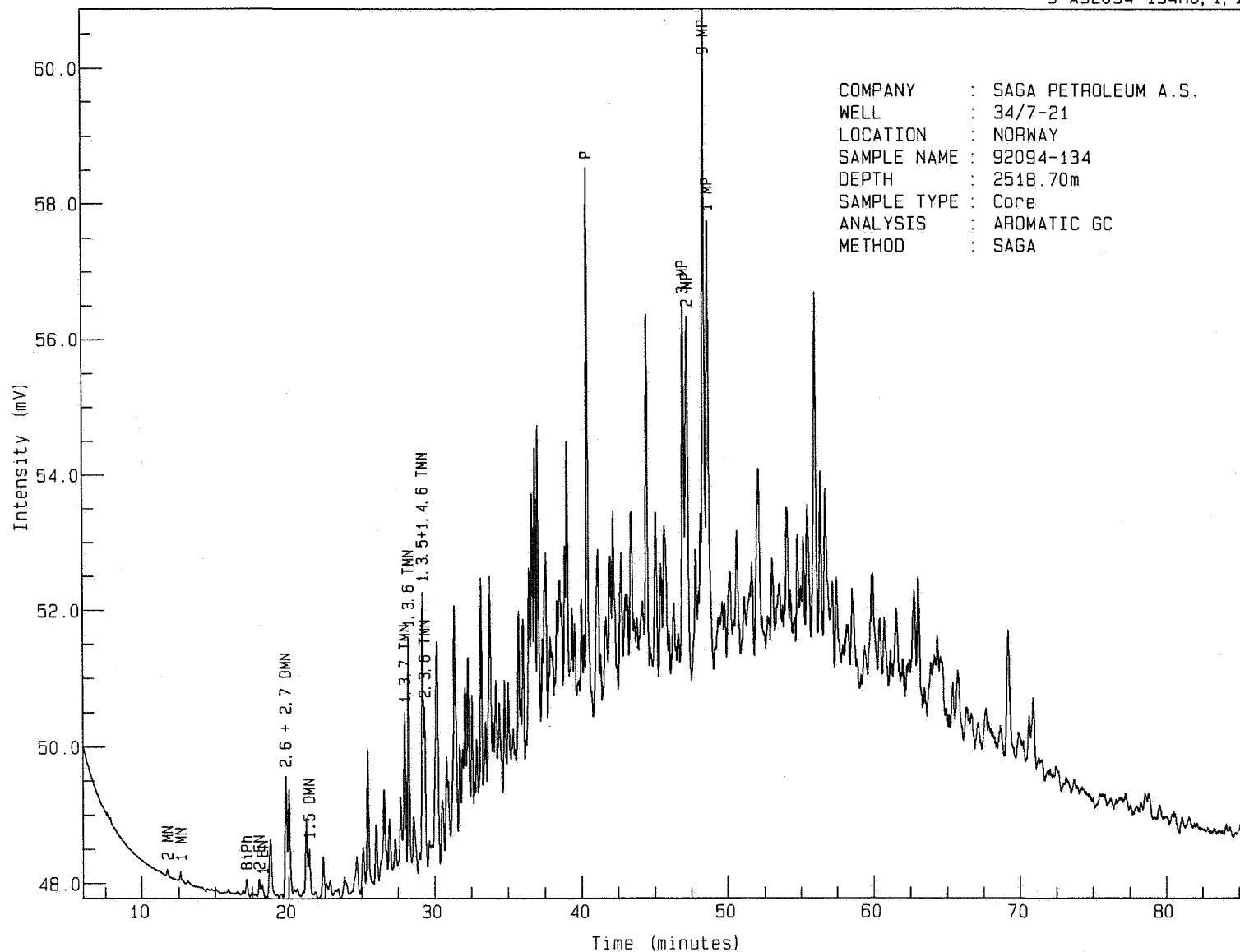


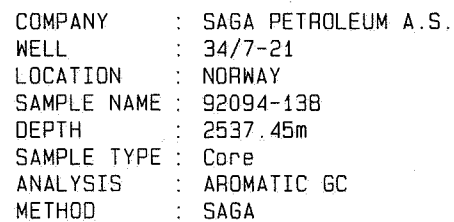
9 A92094-164R0, 1, 1

COMPANY : SAGA PETROLEUM A.S.
WELL : 34/7-21
LOCATION : NORWAY
SAMPLE NAME : 92094-164
DEPTH : 2498.5m
SAMPLE TYPE : Oil
ANALYSIS : AROMATIC GC
METHOD : SAGA



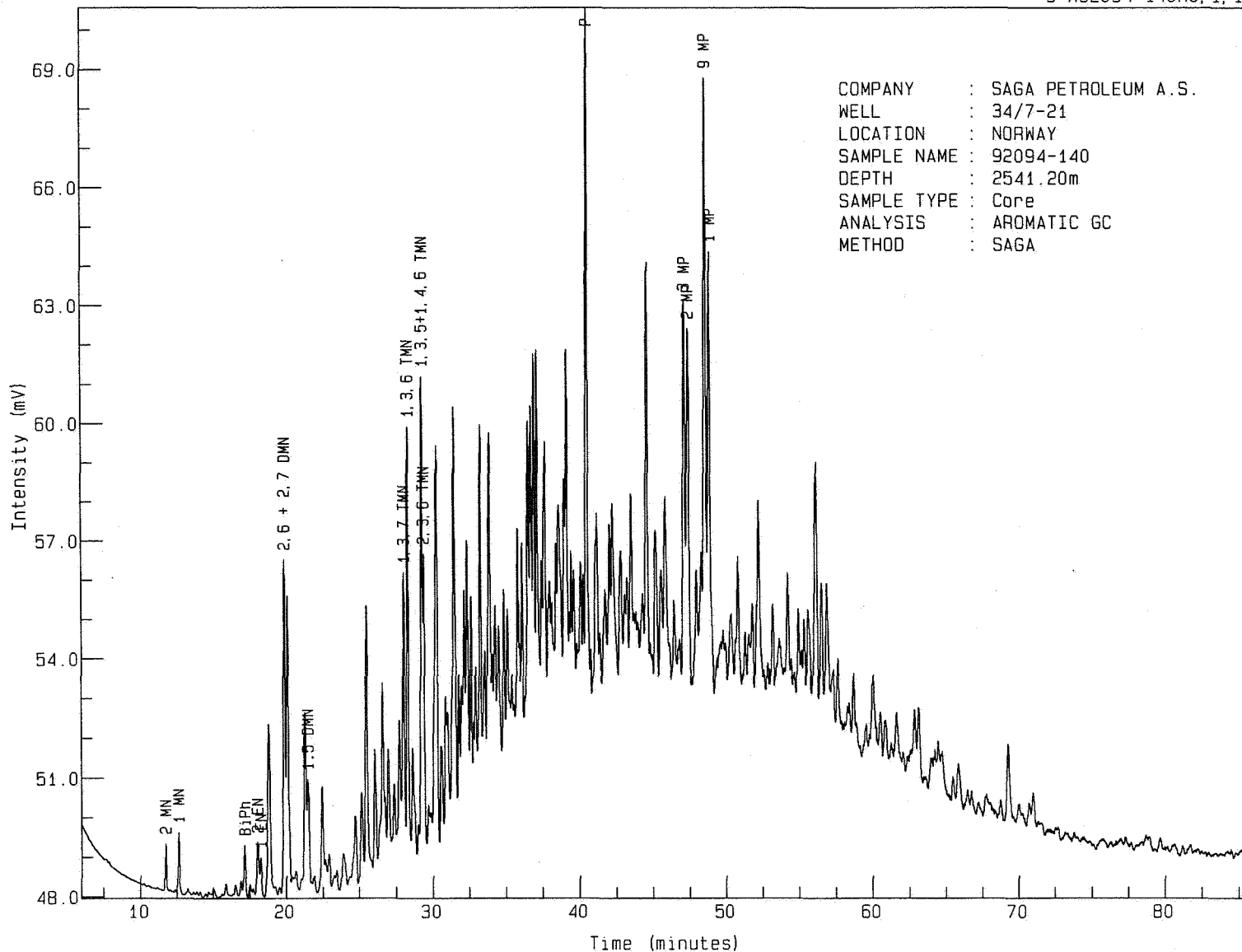
9 A92094-134R0, 1, 1





9 A92094-140R0, 1, 1

COMPANY : SAGA PETROLEUM A.S.
 WELL : 34/7-21
 LOCATION : NORWAY
 SAMPLE NAME : 92094-140
 DEPTH : 2541.20m
 SAMPLE TYPE : Core
 ANALYSIS : AROMATIC GC
 METHOD : SAGA



Intensity (mV)

Time (minutes)

1 MN

BiPh

2 EN

2.6 + 2.7 DMN

1.5 DMN

1.3.7 TMN

2.3.8 TMN

1.3.6 TMN

1.3.5+1.4.6 TMN

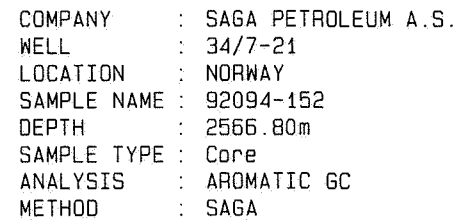
3-MP

2-MP

1-MP

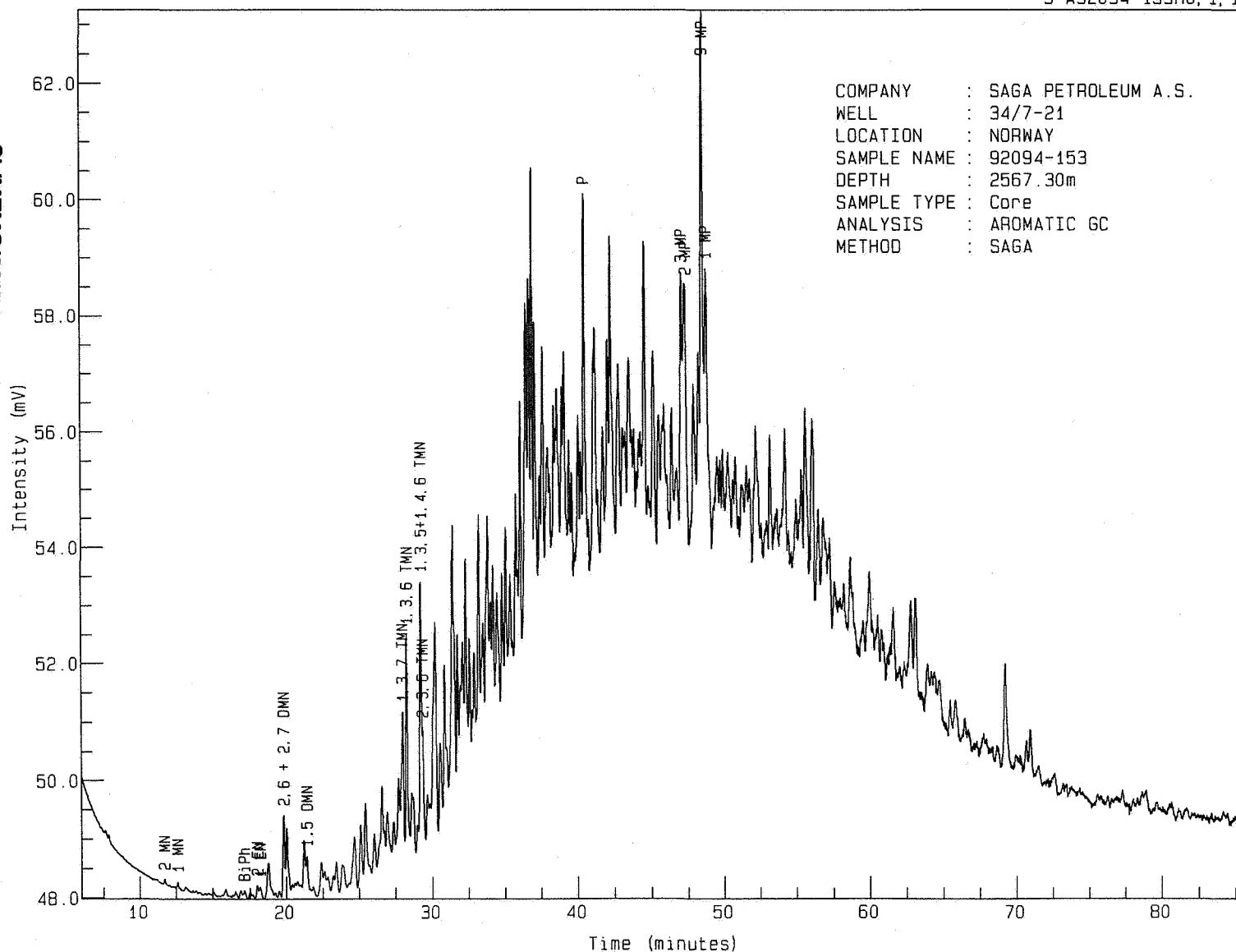
9-MP

COMPANY : SAGA PETROLEUM A.S.
 WELL : 34/7-21
 LOCATION : NORWAY
 SAMPLE NAME : 92094-147
 DEPTH : 2258m
 SAMPLE TYPE : Core
 ANALYSIS : AROMATIC GC
 METHOD : SAGA

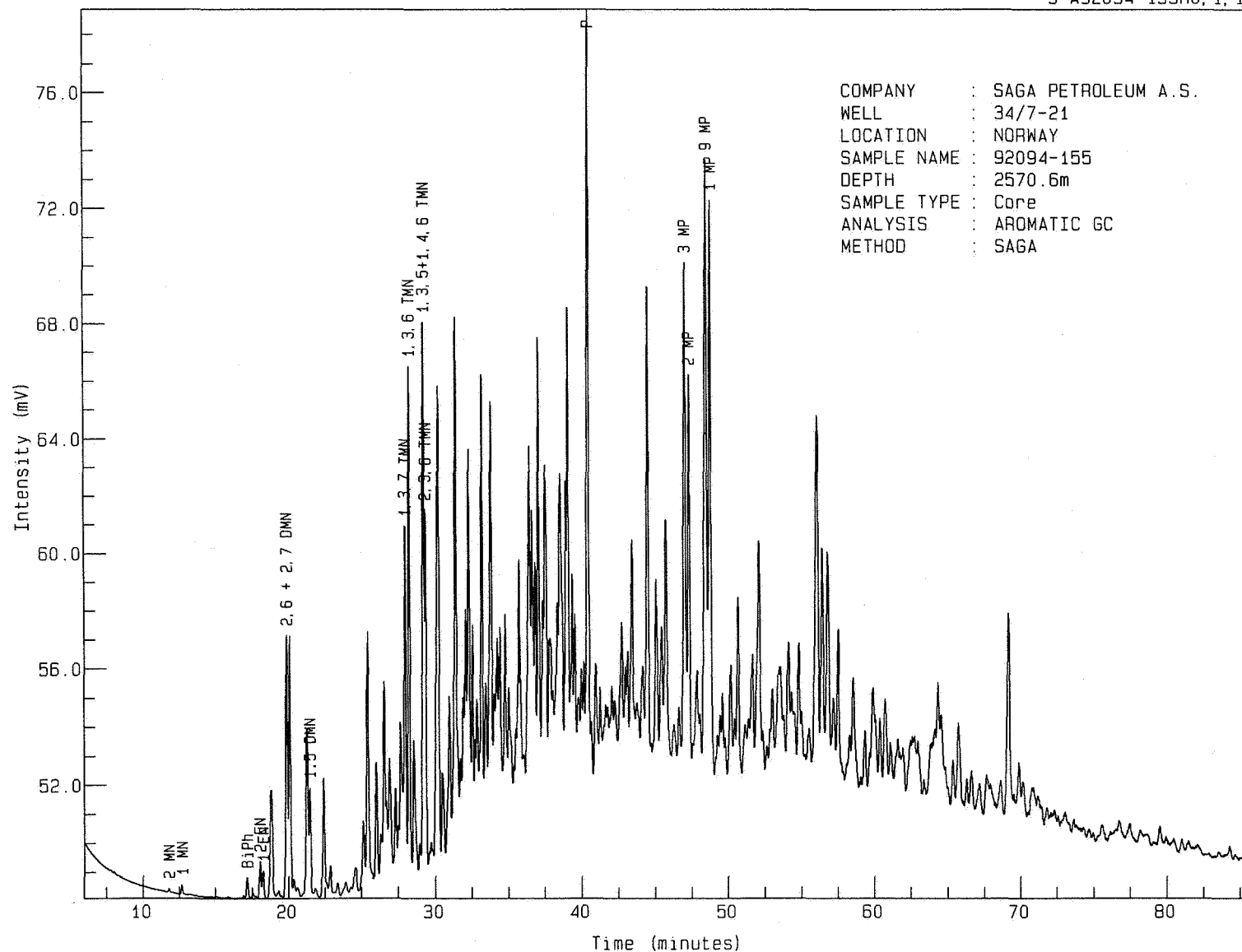


9 A92094-153R0, 1, 1

COMPANY : SAGA PETROLEUM A.S.
 WELL : 34/7-21
 LOCATION : NORWAY
 SAMPLE NAME : 92094-153
 DEPTH : 2567.30m
 SAMPLE TYPE : Core
 ANALYSIS : AROMATIC GC
 METHOD : SAGA

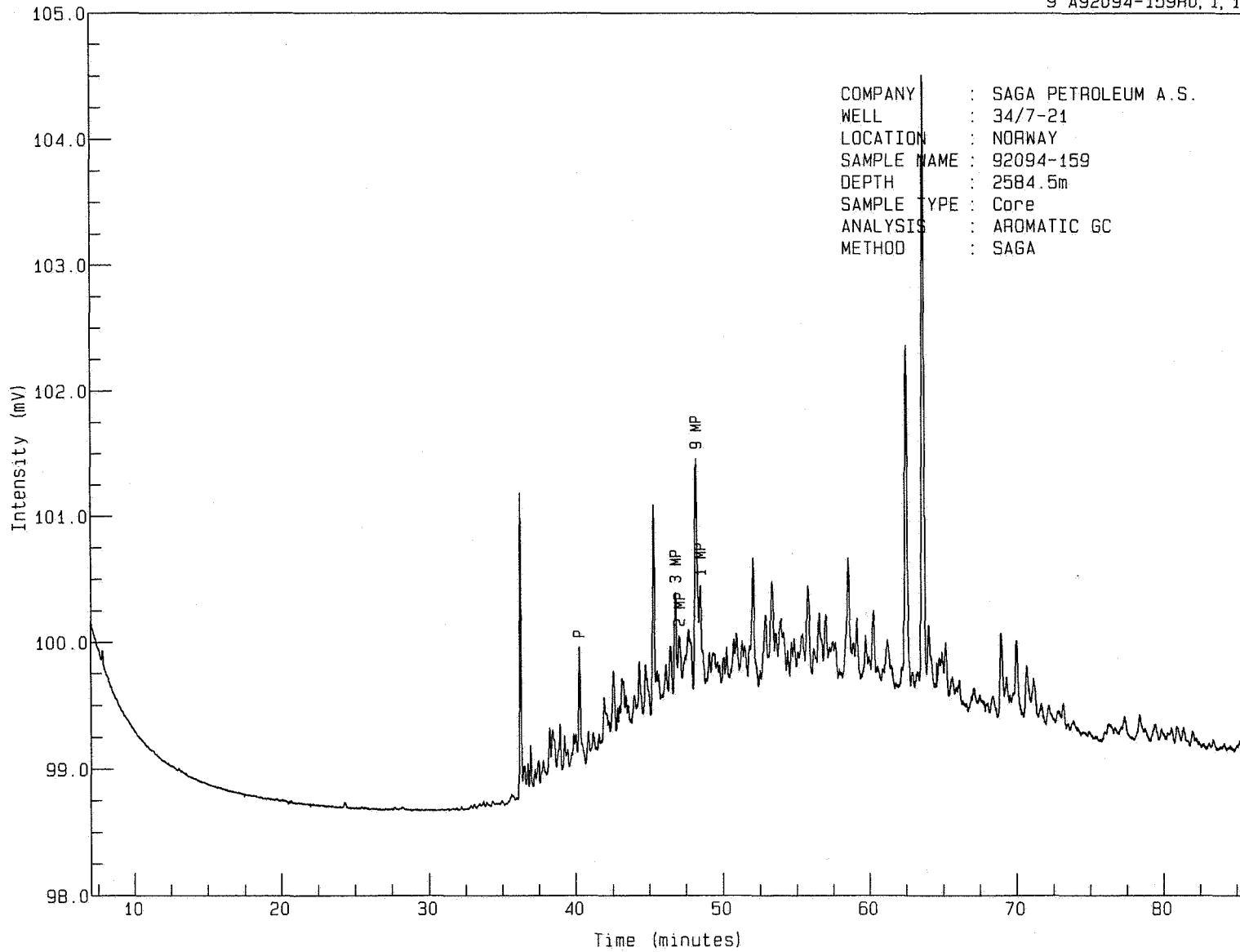


9 A92094-155R0, 1, 1

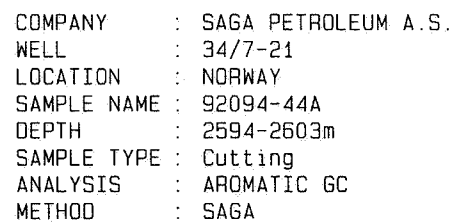


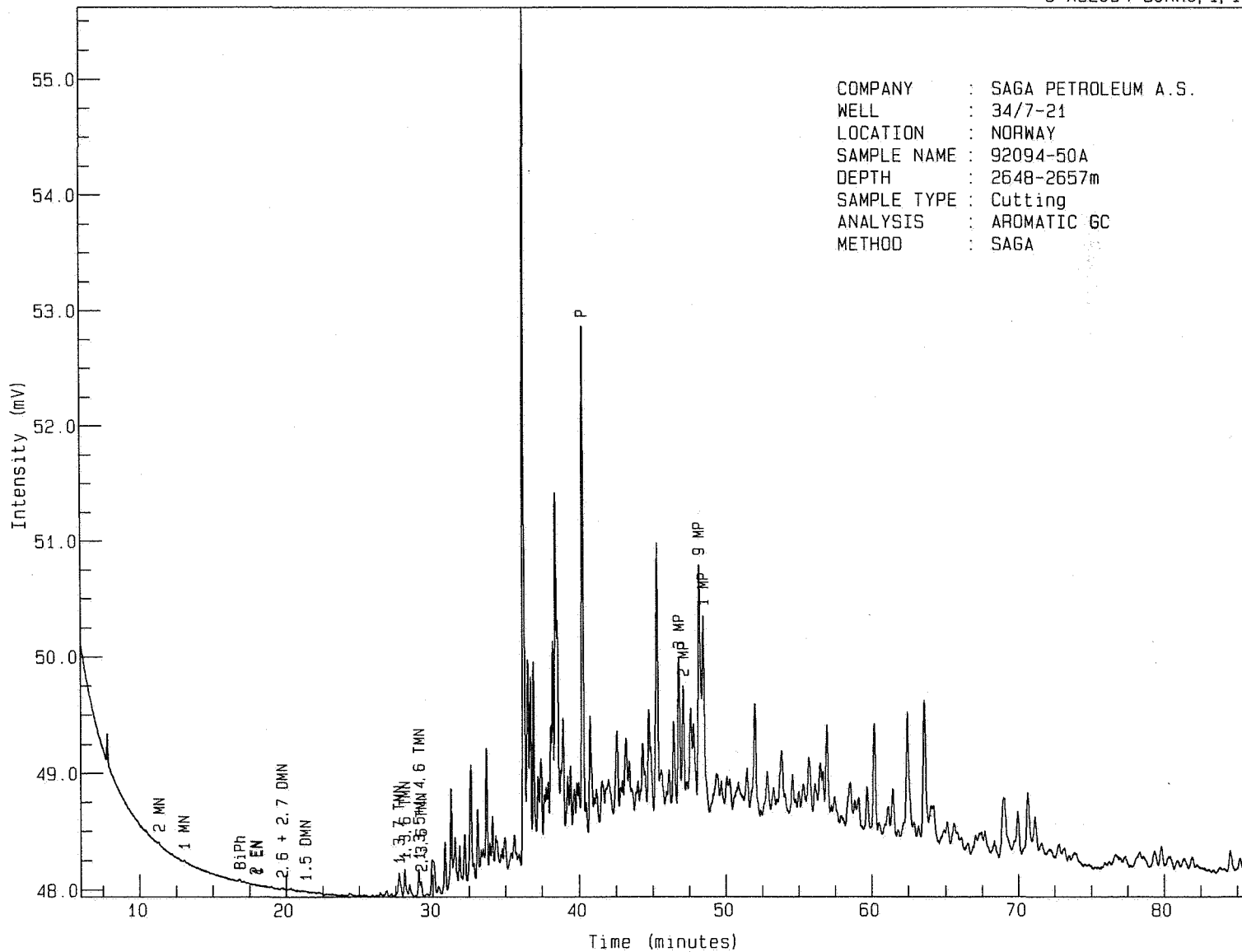
9 A92094-159R0, 1, 1

COMPANY : SAGA PETROLEUM A.S.
WELL : 34/7-21
LOCATION : NORWAY
SAMPLE NAME : 92094-159
DEPTH : 2584.5m
SAMPLE TYPE : Core
ANALYSIS : AROMATIC GC
METHOD : SAGA



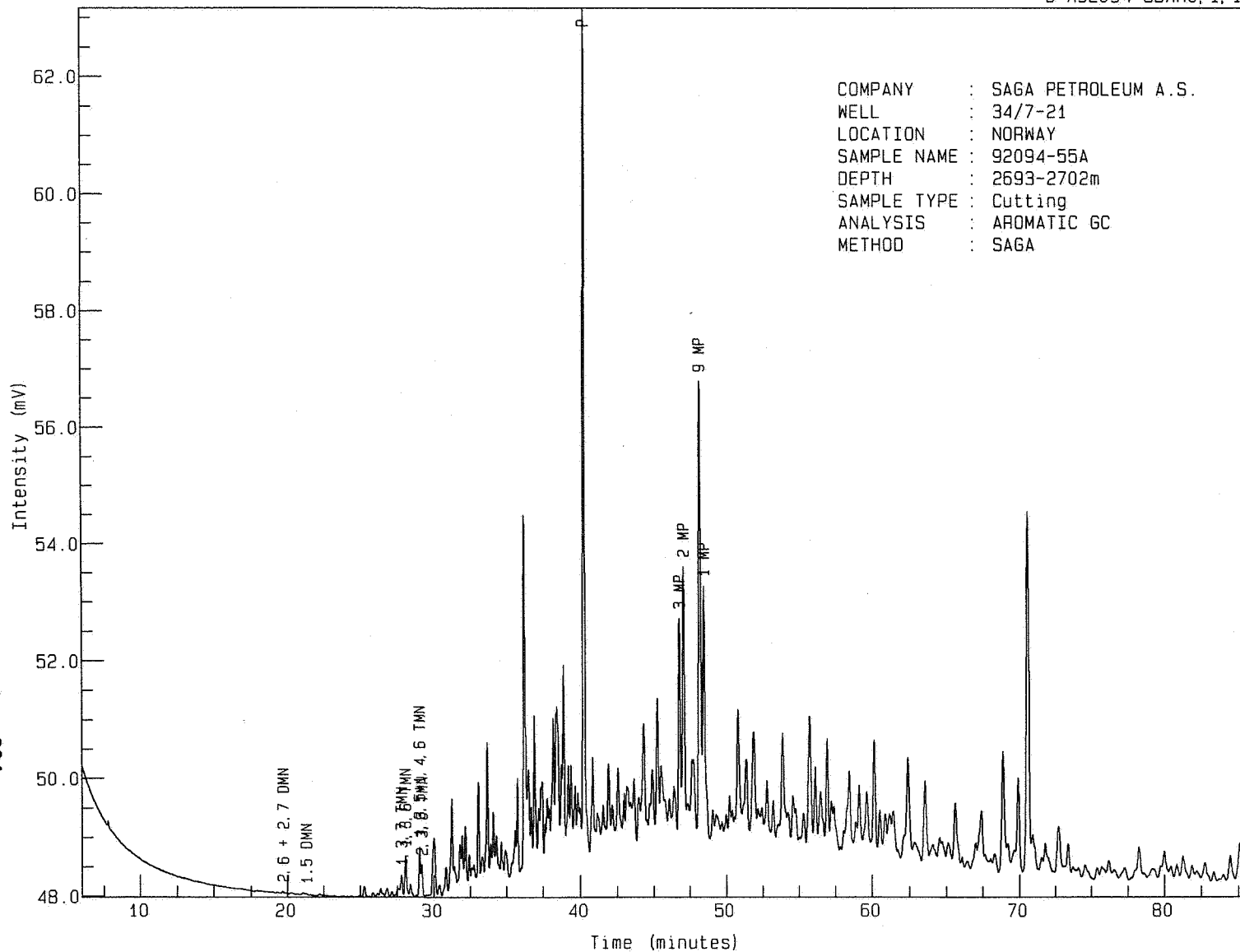
9 A92094-44ARO, 1, 1



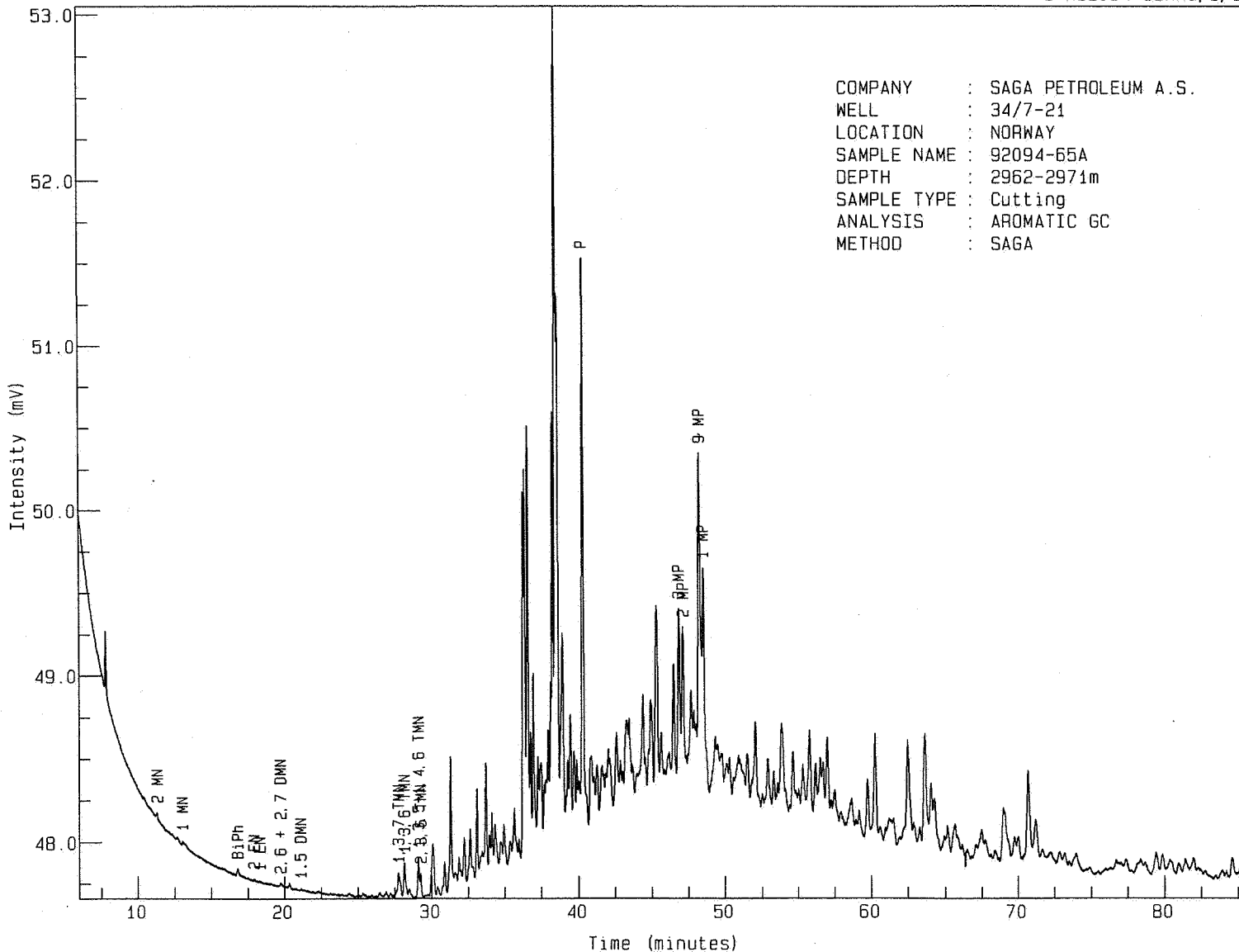
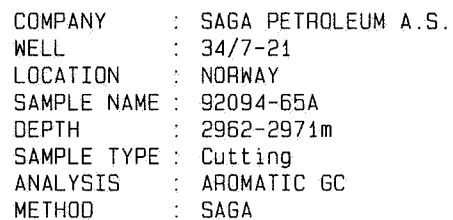


9 A92094-55AR0, 1, 1

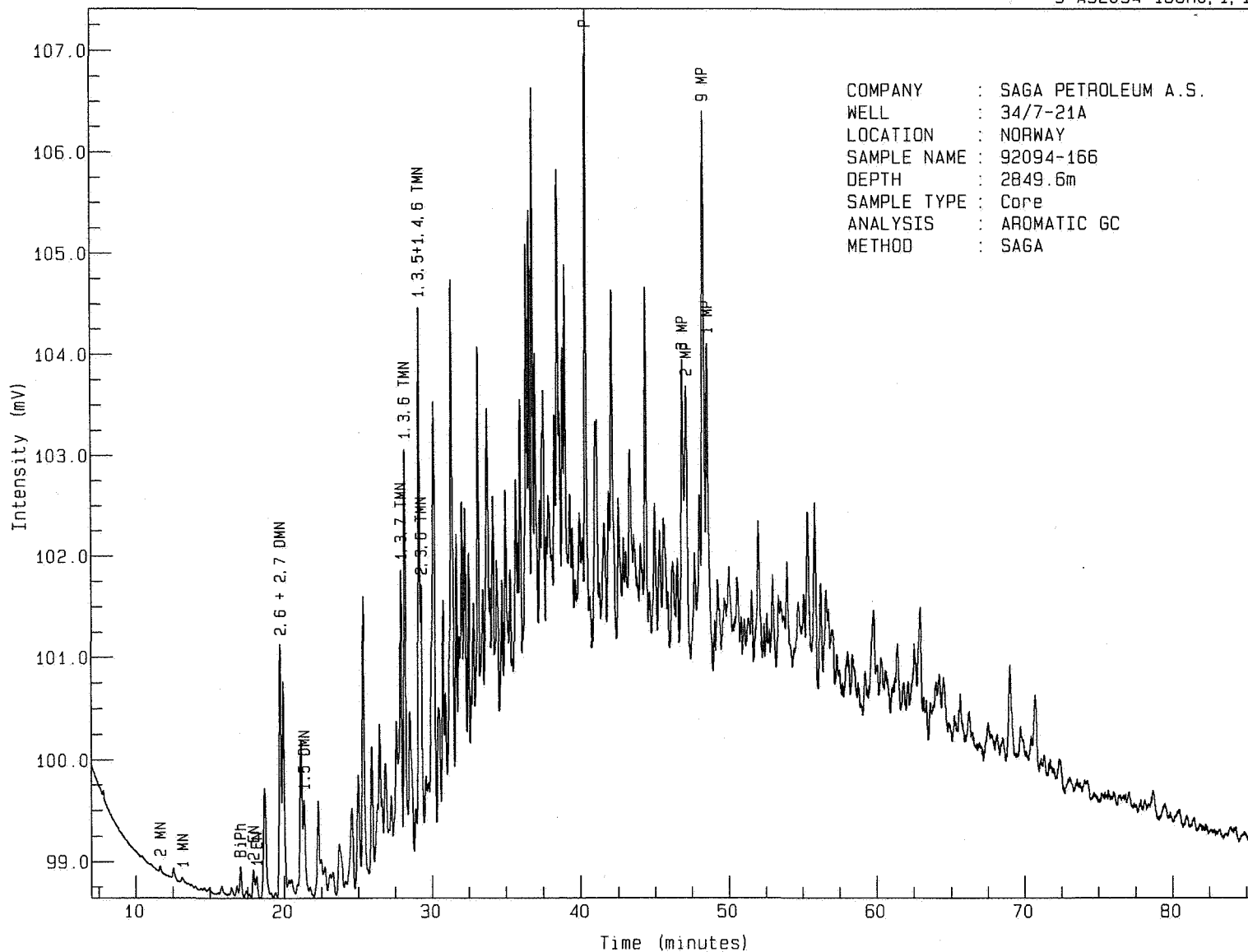
COMPANY : SAGA PETROLEUM A.S.
WELL : 34/7-21
LOCATION : NORWAY
SAMPLE NAME : 92094-55A
DEPTH : 2693-2702m
SAMPLE TYPE : Cutting
ANALYSIS : AROMATIC GC
METHOD : SAGA



9 A92094-65AR0, 1, 1

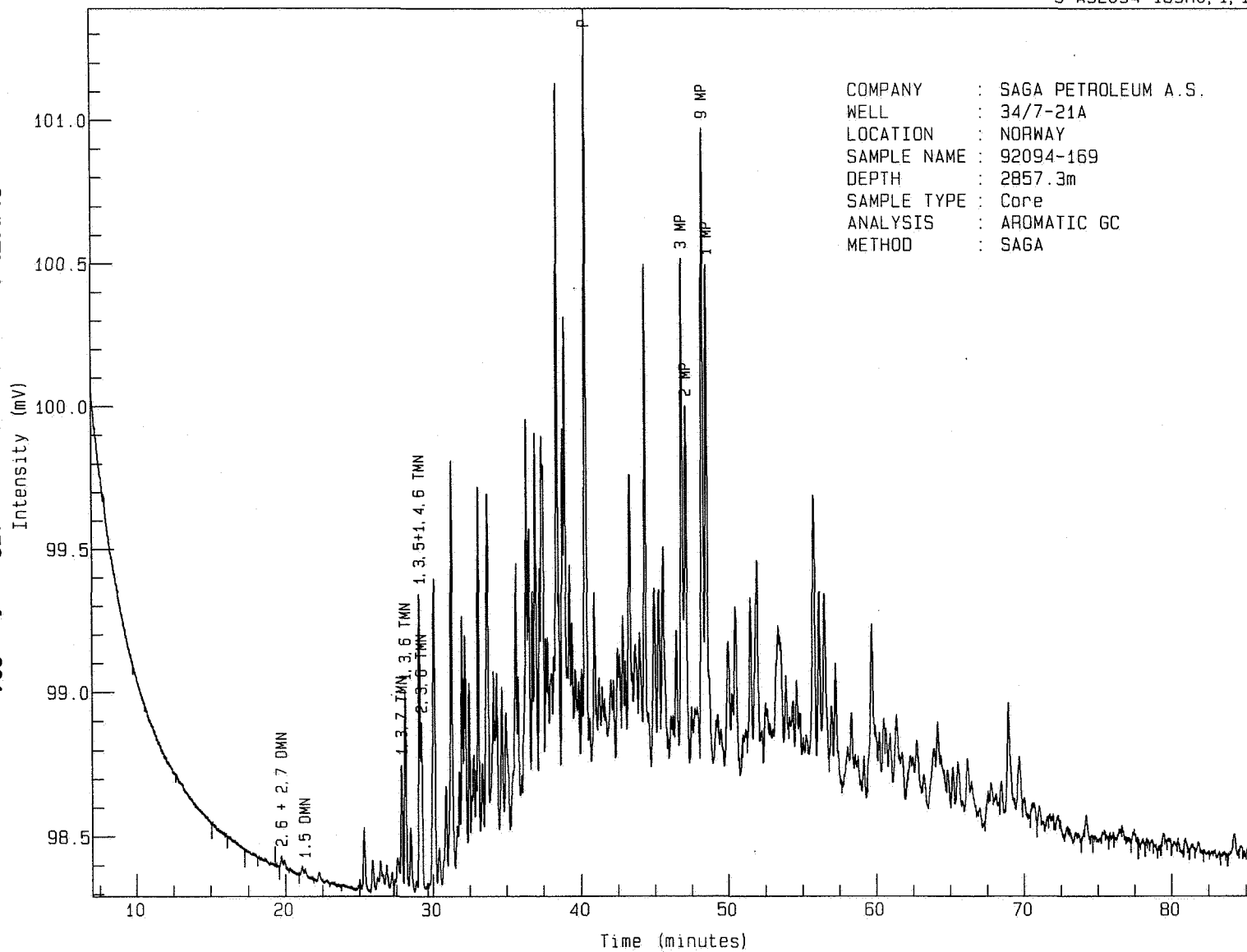


9 A92094-166R0, 1, 1



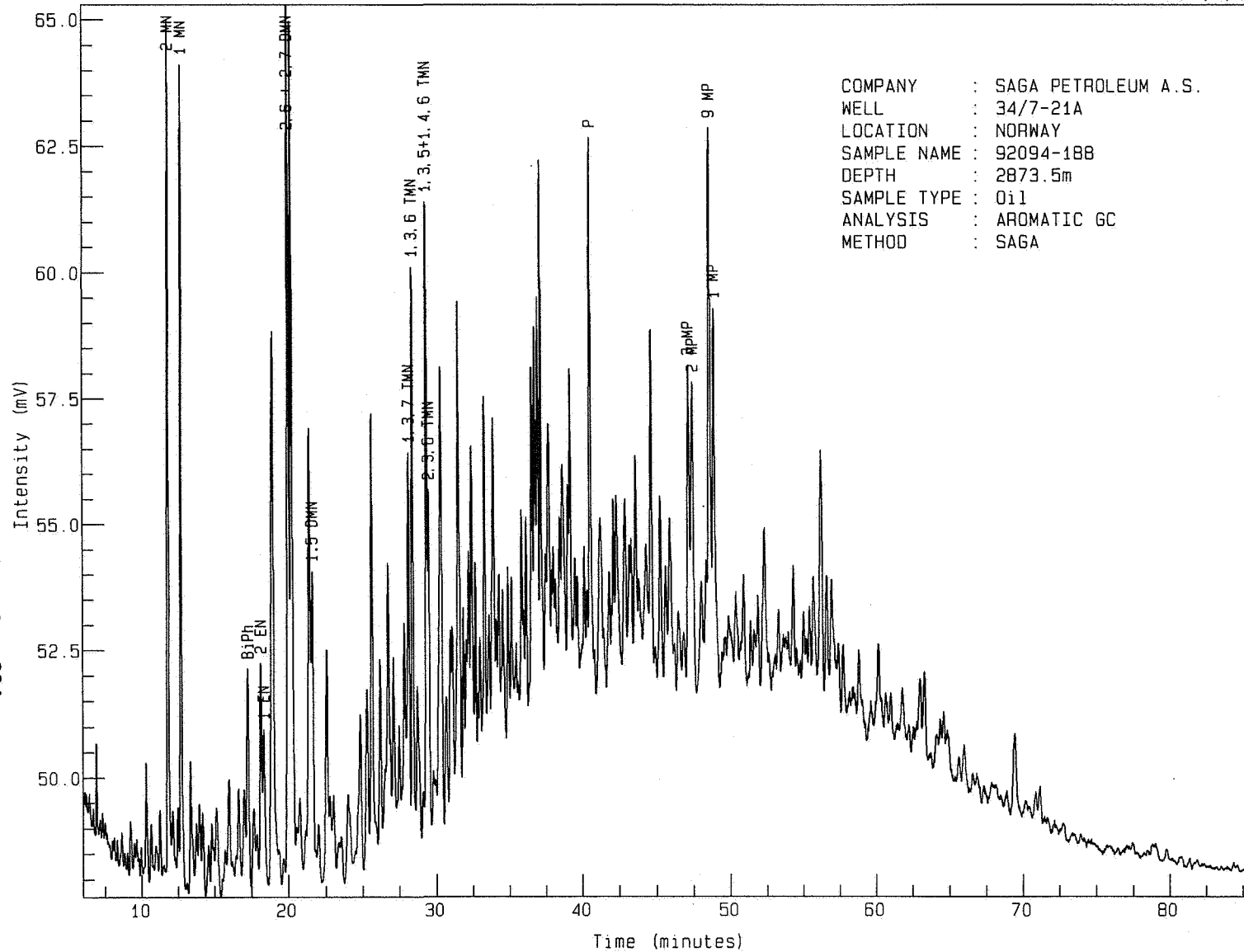
9 A92094-169R0, 1, 1

COMPANY : SAGA PETROLEUM A.S.
WELL : 34/7-21A
LOCATION : NORWAY
SAMPLE NAME : 92094-169
DEPTH : 2857.3m
SAMPLE TYPE : Core
ANALYSIS : AROMATIC GC
METHOD : SAGA



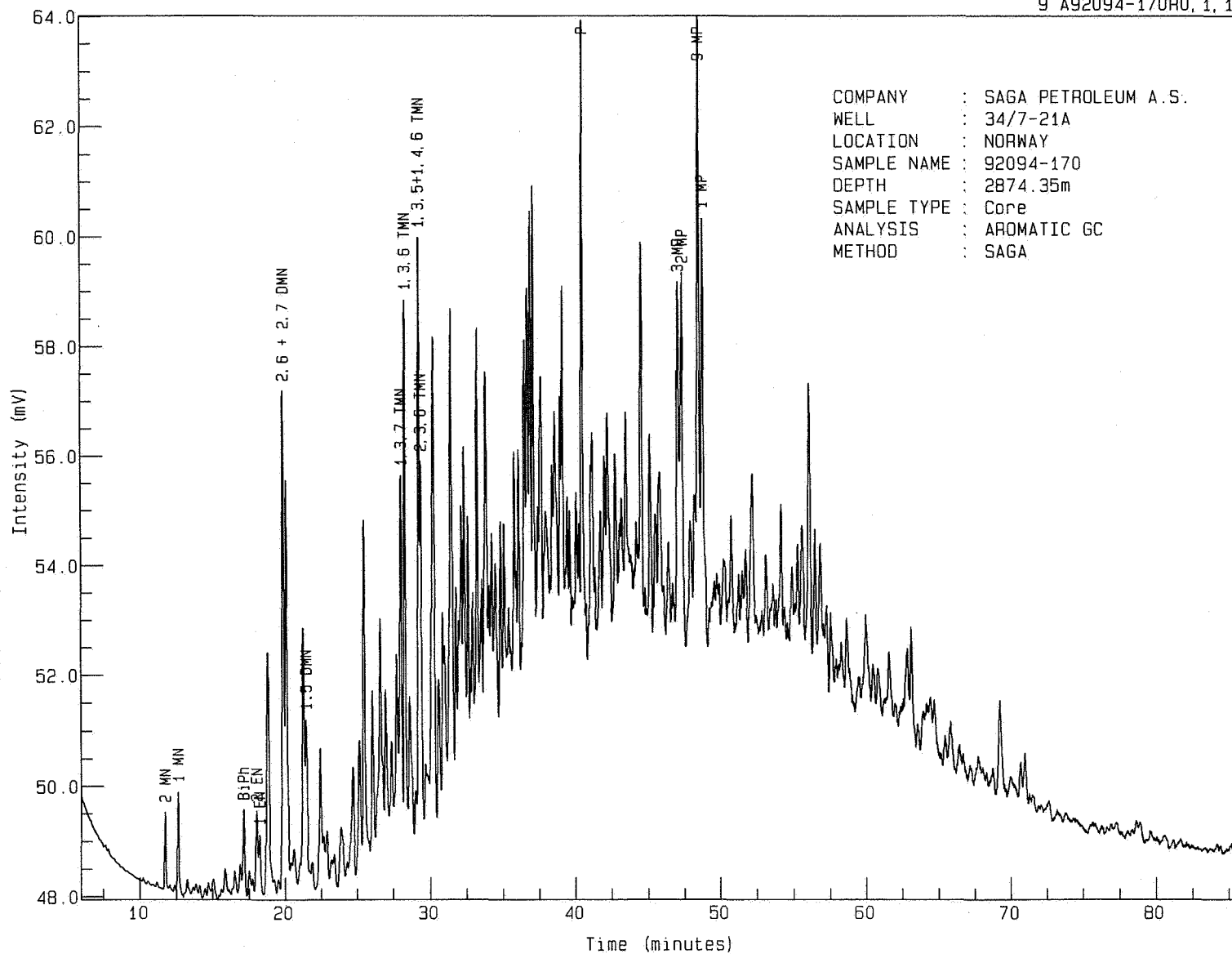
9 A92094-188R0, 1, 1

COMPANY : SAGA PETROLEUM A.S.
WELL : 34/7-21A
LOCATION : NORWAY
SAMPLE NAME : 92094-188
DEPTH : 2873.5m
SAMPLE TYPE : Oil
ANALYSIS : AROMATIC GC
METHOD : SAGA



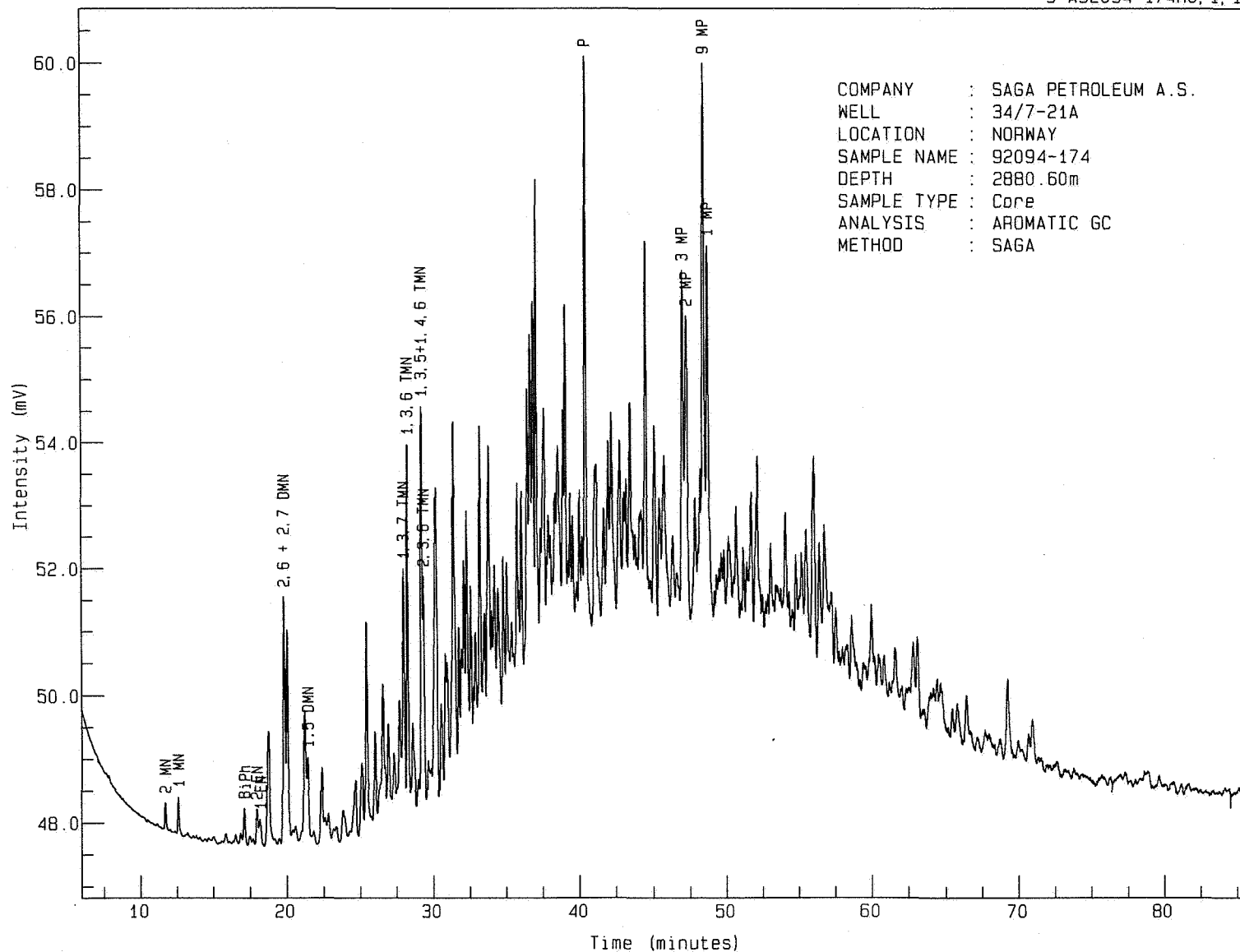
9 A92094-170R0, 1, 1

COMPANY : SAGA PETROLEUM A.S.
 WELL : 34/7-21A
 LOCATION : NORWAY
 SAMPLE NAME : 92094-170
 DEPTH : 2874.35m
 SAMPLE TYPE : Core
 ANALYSIS : AROMATIC GC
 METHOD : SAGA



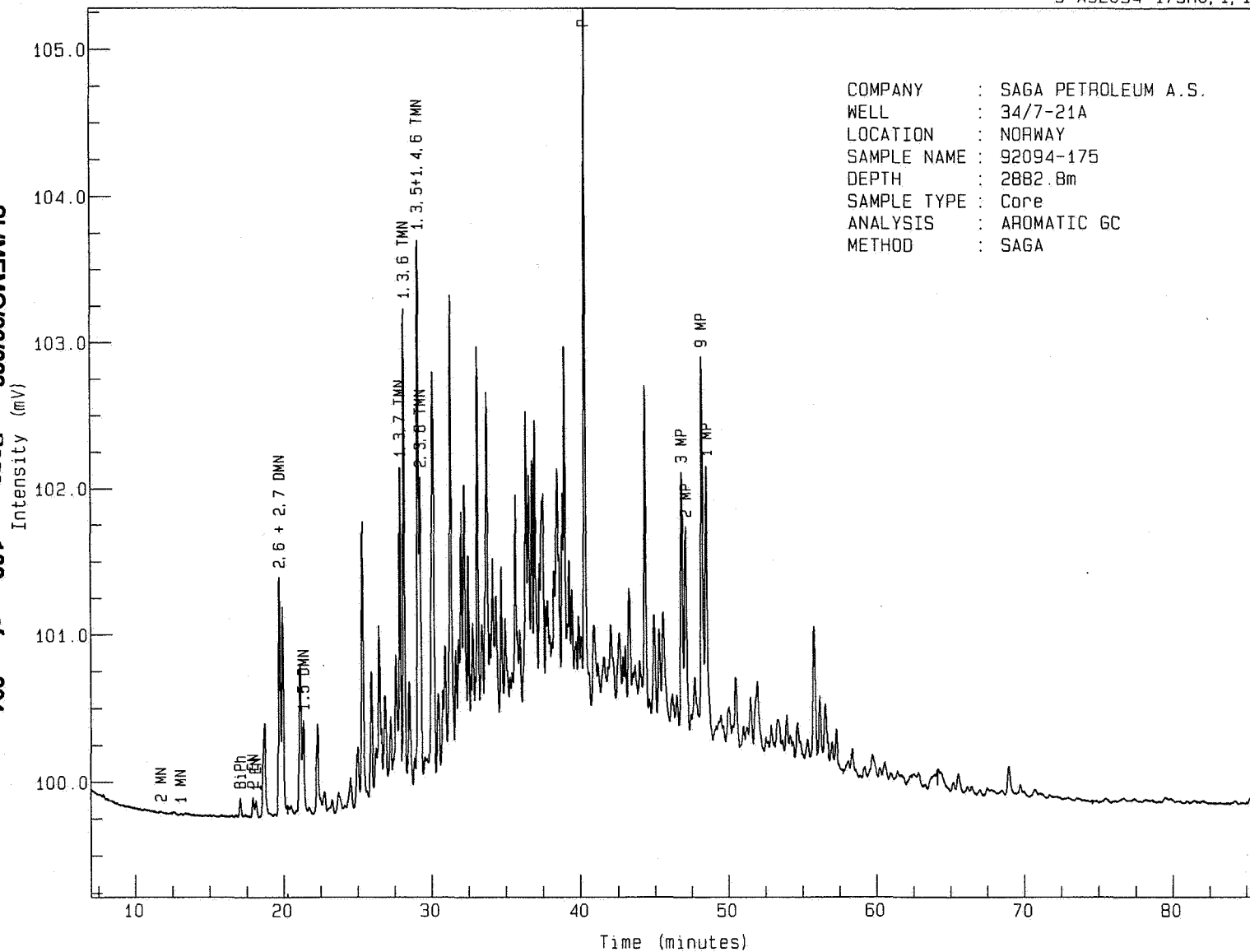
9 A92094-174R0, 1, 1

COMPANY : SAGA PETROLEUM A.S.
WELL : 34/7-21A
LOCATION : NORWAY
SAMPLE NAME : 92094-174
DEPTH : 2880.60m
SAMPLE TYPE : Core
ANALYSIS : AROMATIC GC
METHOD : SAGA

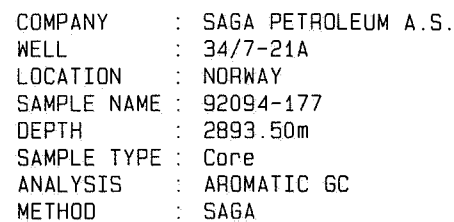


9 A92094-175R0, 1, 1

COMPANY : SAGA PETROLEUM A.S.
WELL : 34/7-21A
LOCATION : NORWAY
SAMPLE NAME : 92094-175
DEPTH : 2882.8m
SAMPLE TYPE : Core
ANALYSIS : AROMATIC GC
METHOD : SAGA

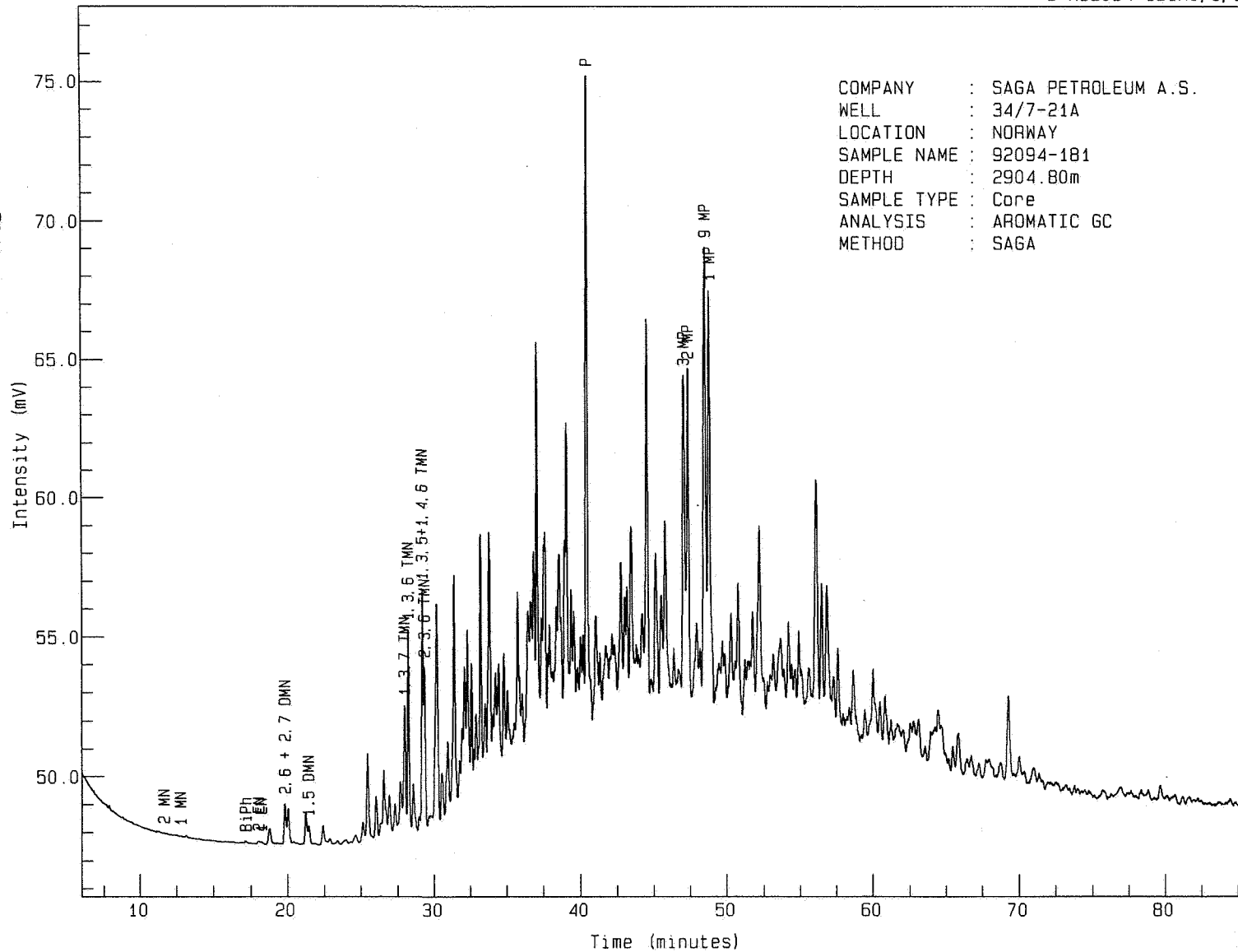


9 A92094-177R0, 1, 1



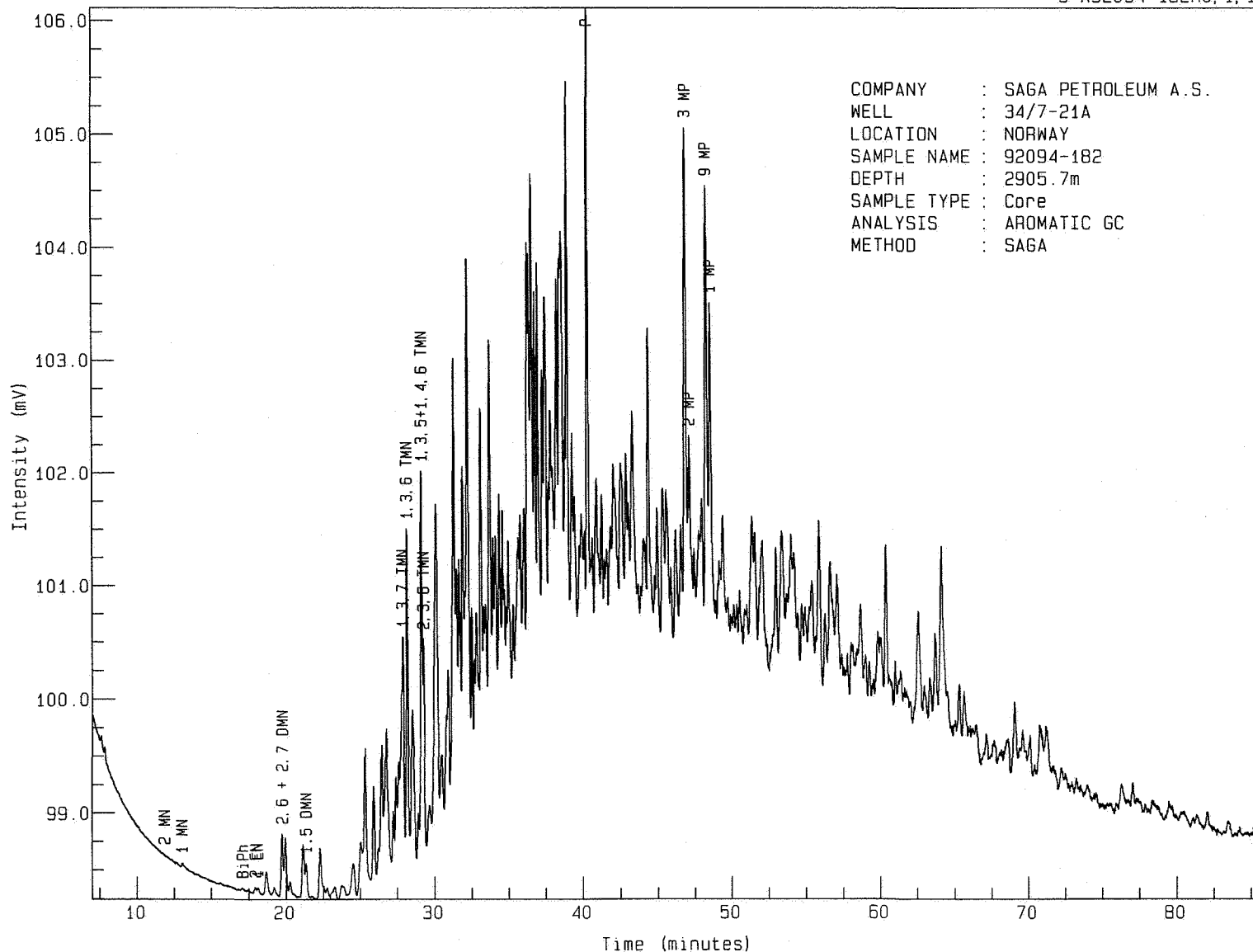
9 A92094-181R0, 1, 1

COMPANY : SAGA PETROLEUM A.S.
WELL : 34/7-21A
LOCATION : NORWAY
SAMPLE NAME : 92094-181
DEPTH : 2904.80m
SAMPLE TYPE : Core
ANALYSIS : AROMATIC GC
METHOD : SAGA

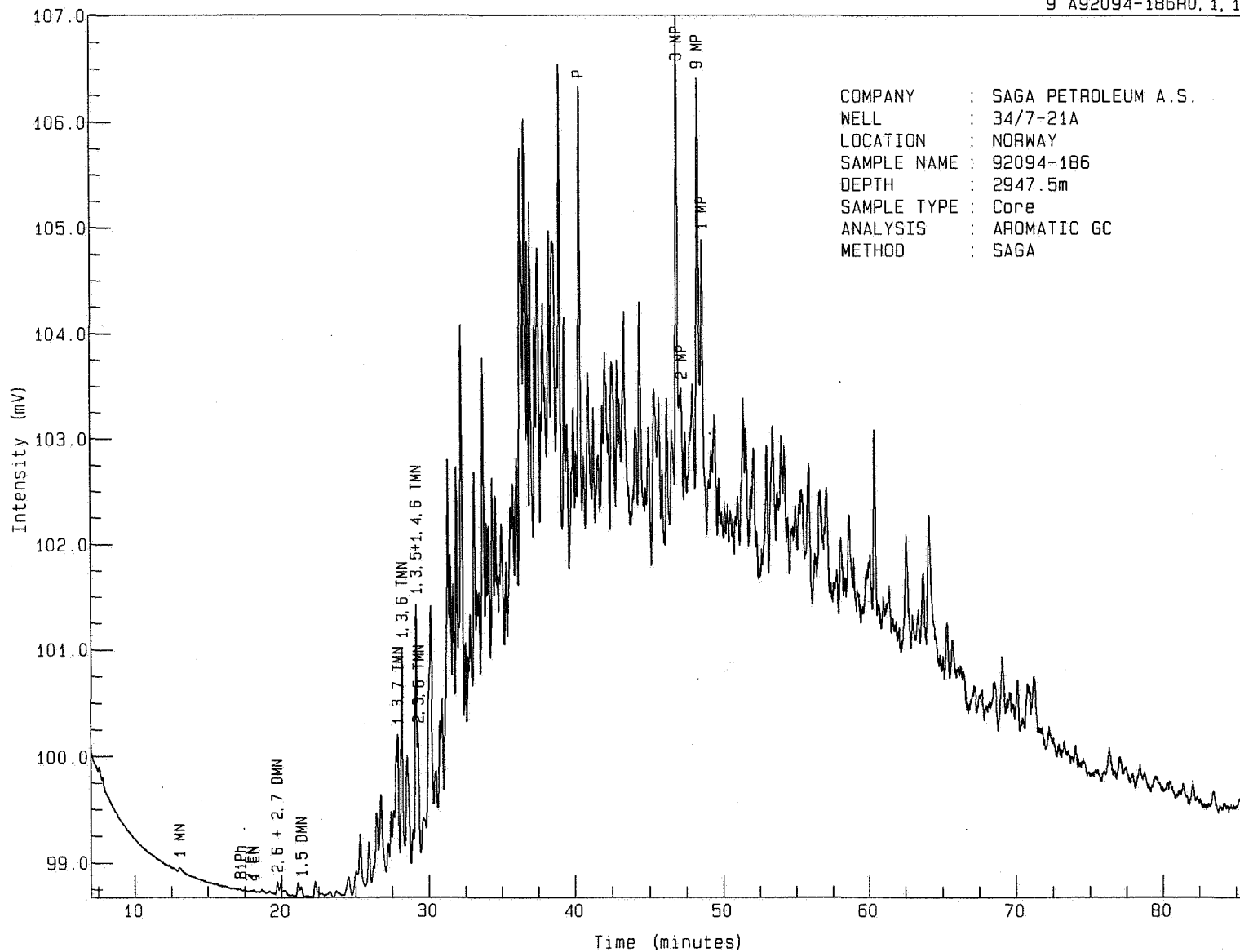


9 A92094-182R0, 1, 1

COMPANY : SAGA PETROLEUM A.S.
WELL : 34/7-21A
LOCATION : NORWAY
SAMPLE NAME : 92094-182
DEPTH : 2905.7m
SAMPLE TYPE : Core
ANALYSIS : AROMATIC GC
METHOD : SAGA

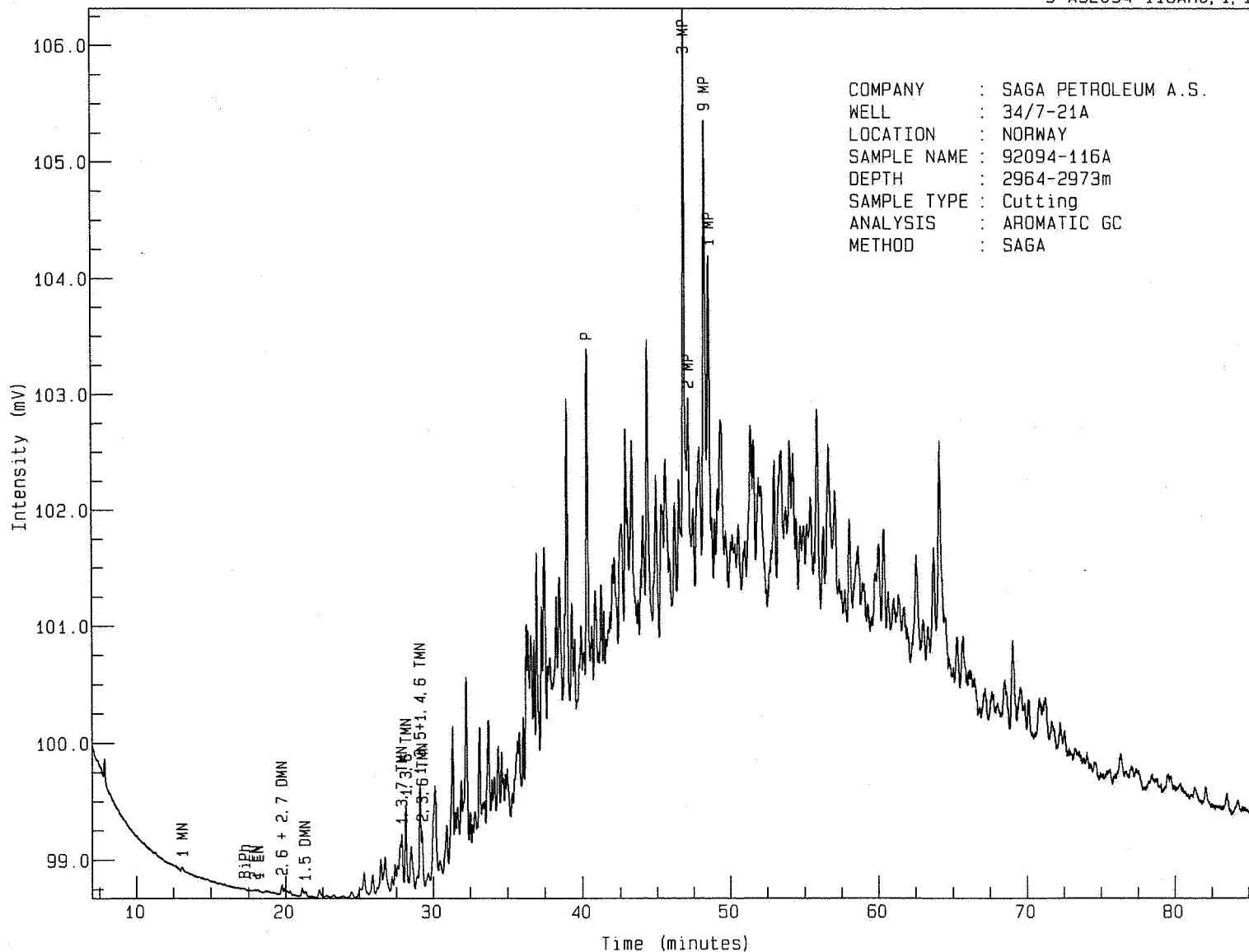


9 A92094-186R0, 1, 1



9 A92094-116AR0, 1, 1

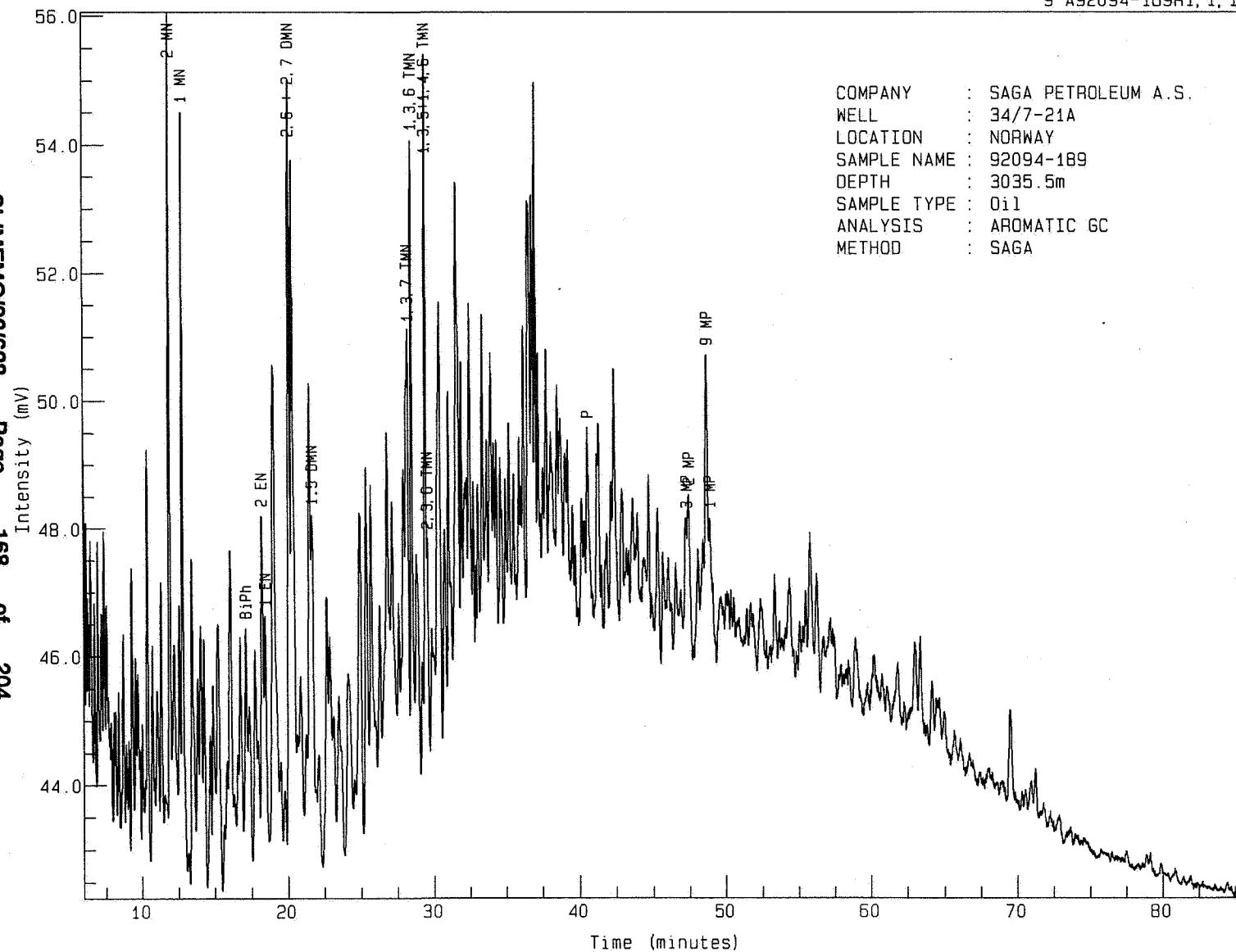
COMPANY : SAGA PETROLEUM A.S.
 WELL : 34/7-21A
 LOCATION : NORWAY
 SAMPLE NAME : 92094-116A
 DEPTH : 2964-2973m
 SAMPLE TYPE : Cutting
 ANALYSIS : AROMATIC GC
 METHOD : SAGA

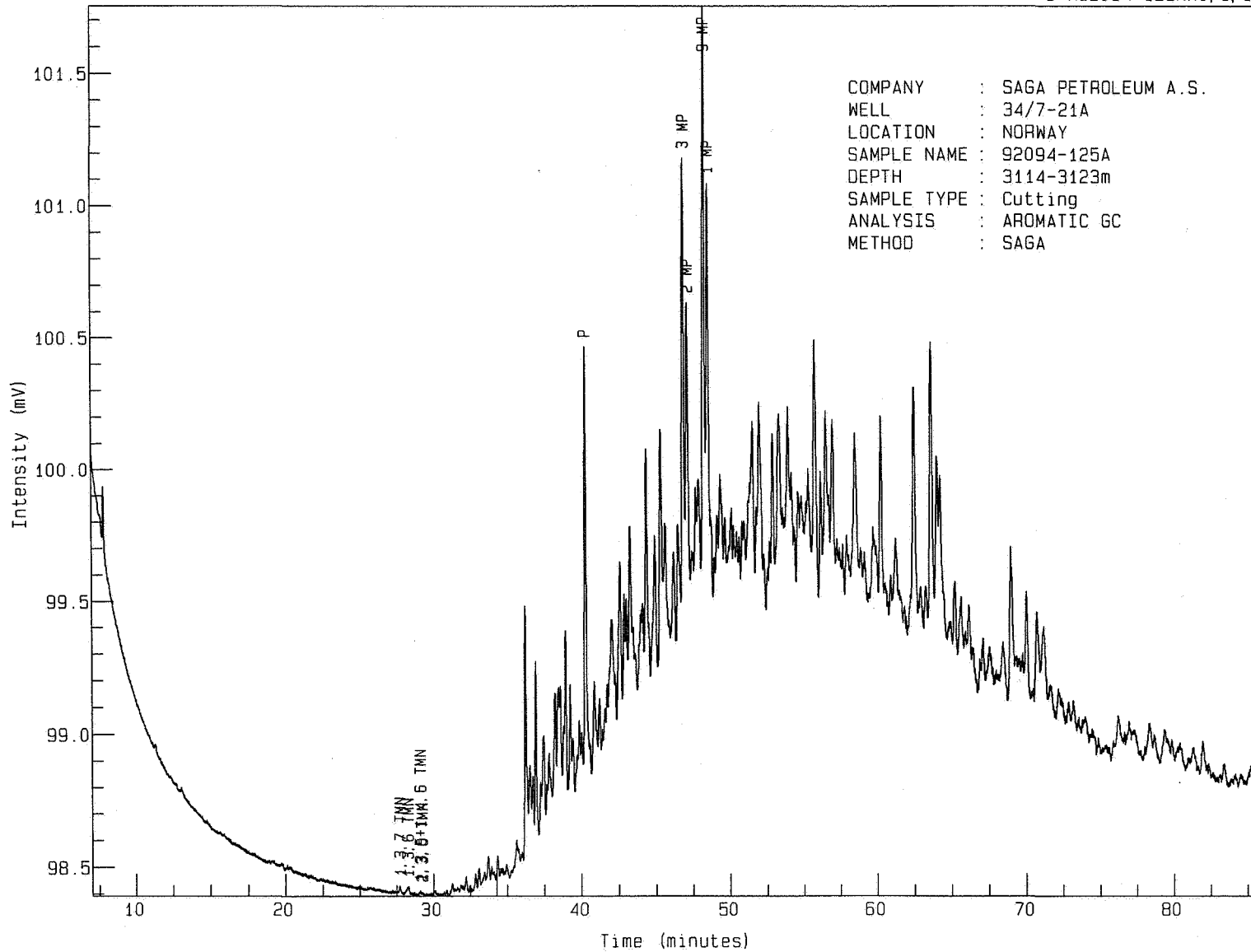


9 A92094-189R1, 1, 1

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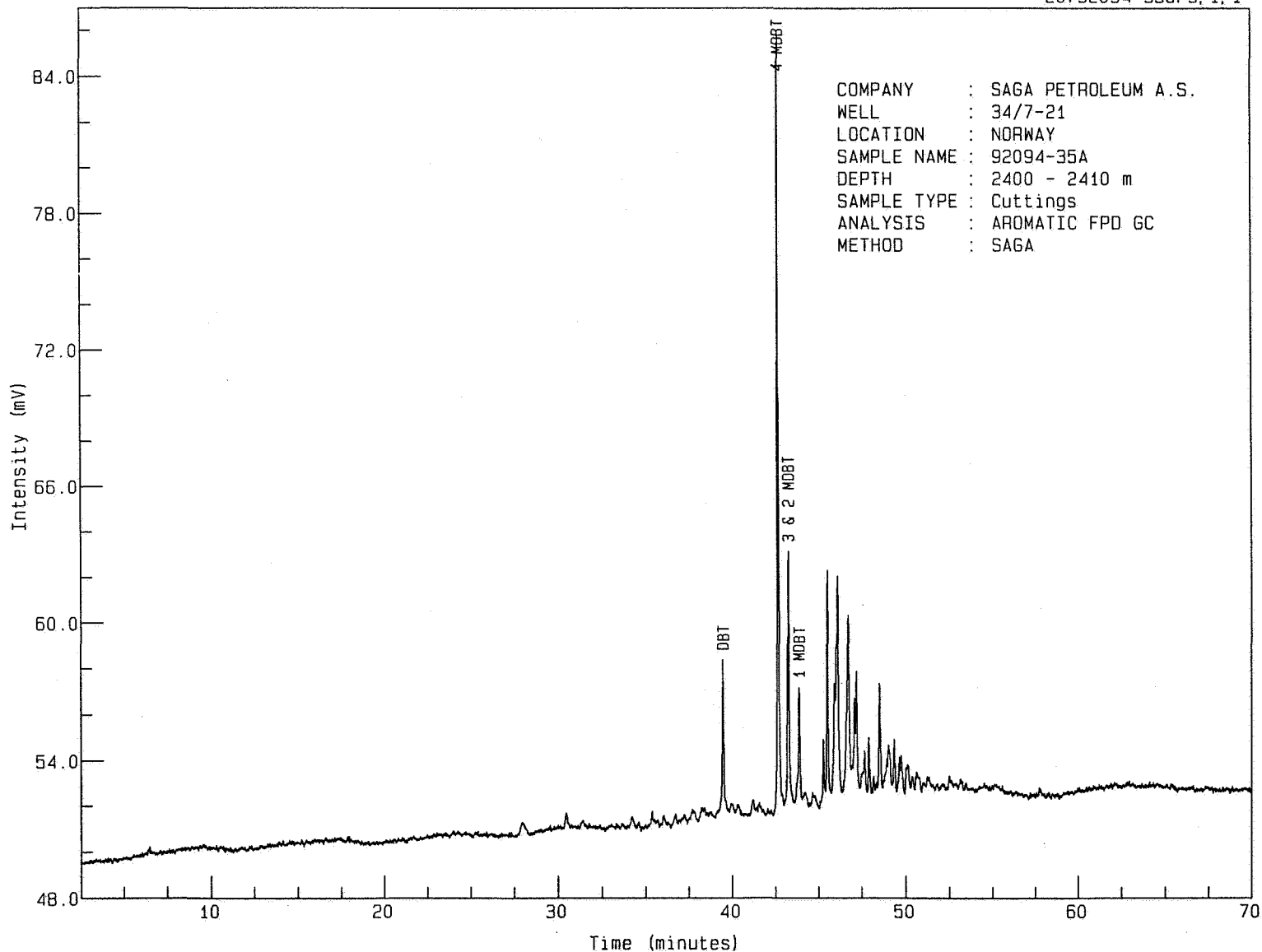
COMPANY : SAGA PETROLEUM A.S.
WELL : 34/7-21A
LOCATION : NORWAY
SAMPLE NAME : 92094-189
DEPTH : 3035.5m
SAMPLE TYPE : Oil
ANALYSIS : AROMATIC GC
METHOD : SAGA



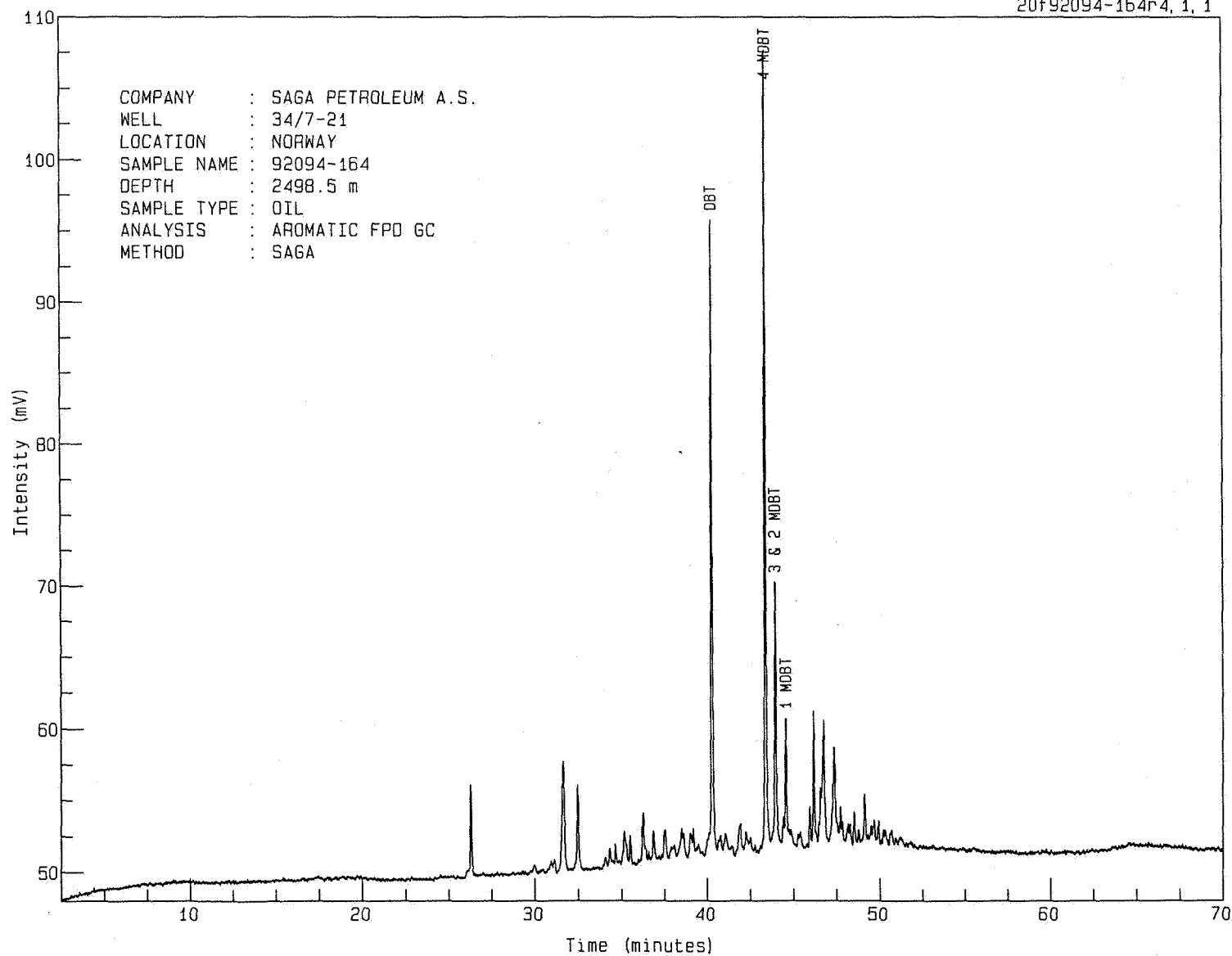


20f92094-35ar3, 1, 1

COMPANY : SAGA PETROLEUM A.S.
 WELL : 34/7-21
 LOCATION : NORWAY
 SAMPLE NAME : 92094-35A
 DEPTH : 2400 - 2410 m
 SAMPLE TYPE : Cuttings
 ANALYSIS : AROMATIC FPD GC
 METHOD : SAGA

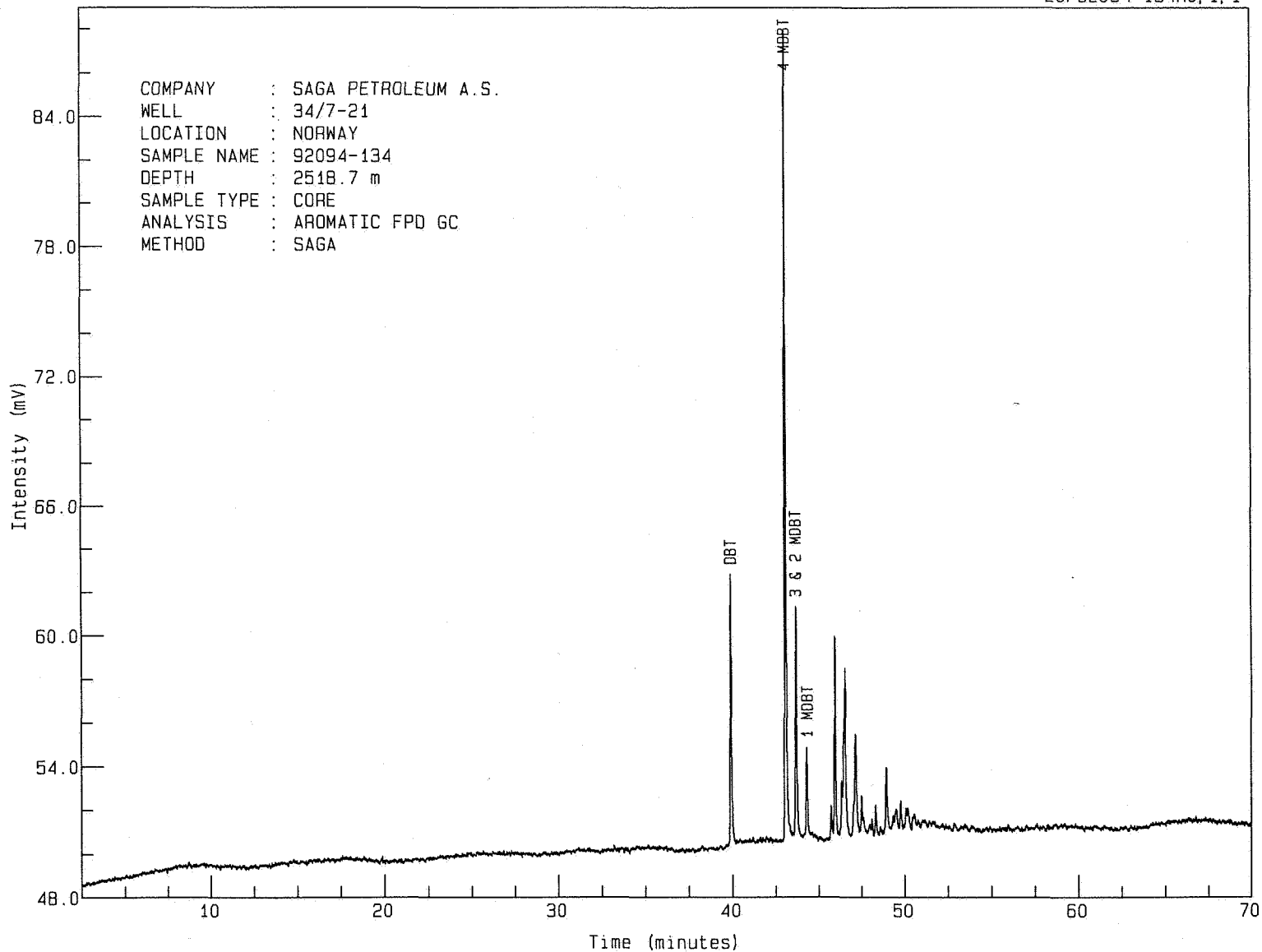


20f92094-164r4, 1, 1

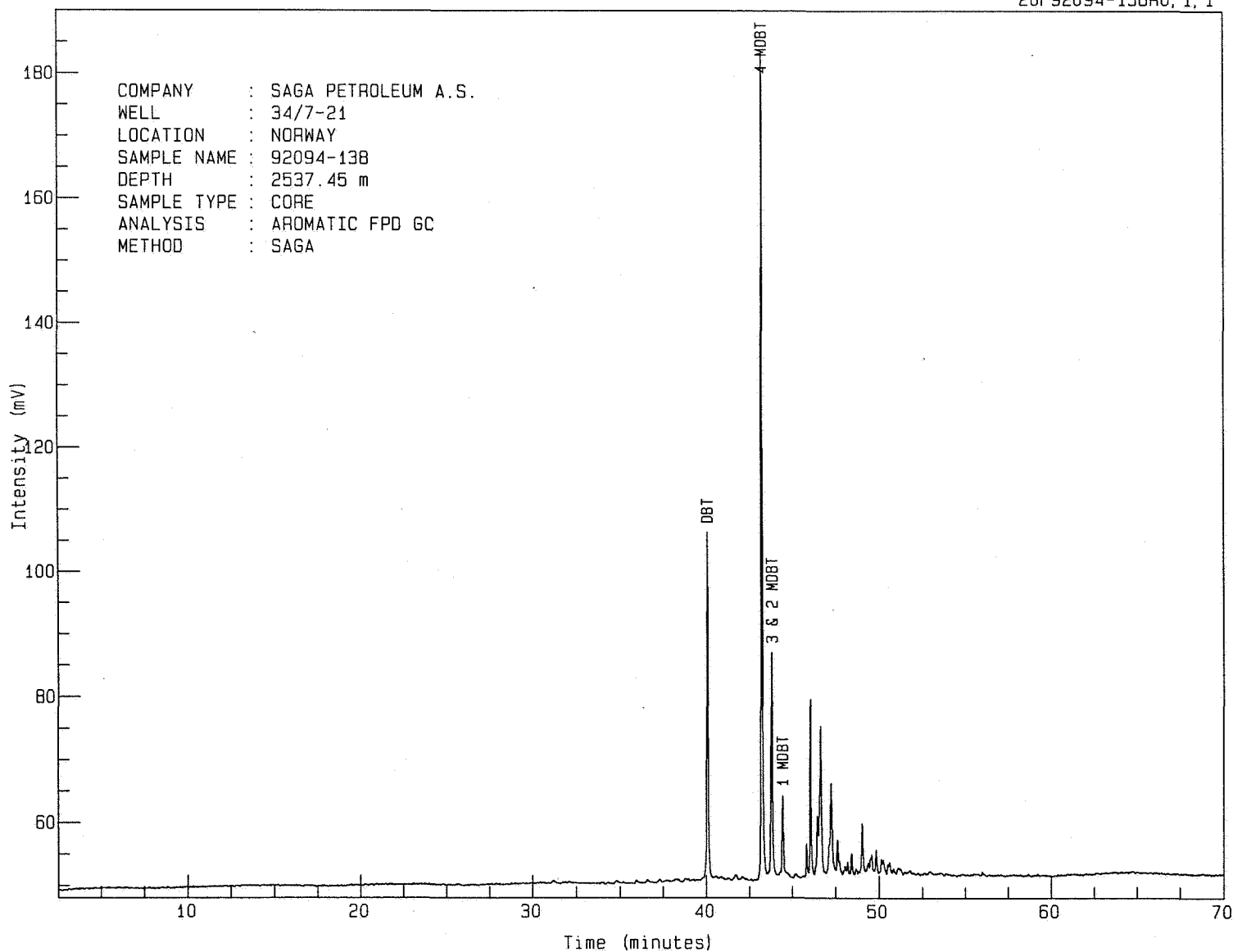


20F92094-134R0, 1, 1

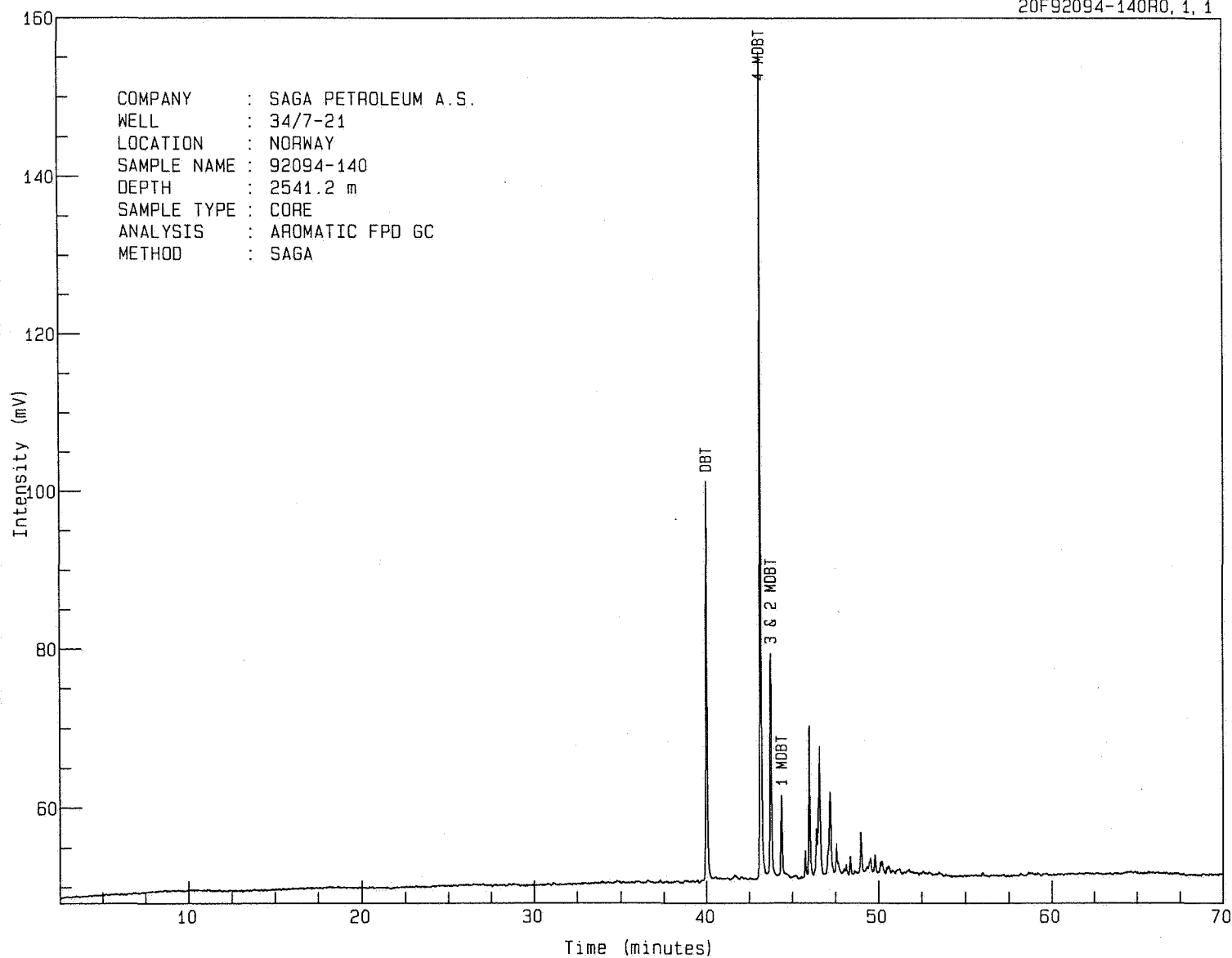
COMPANY : SAGA PETROLEUM A.S.
WELL : 34/7-21
LOCATION : NORWAY
SAMPLE NAME : 92094-134
DEPTH : 2518.7 m
SAMPLE TYPE : CORE
ANALYSIS : AROMATIC FPD GC
METHOD : SAGA



20F92094-138R0, 1, 1

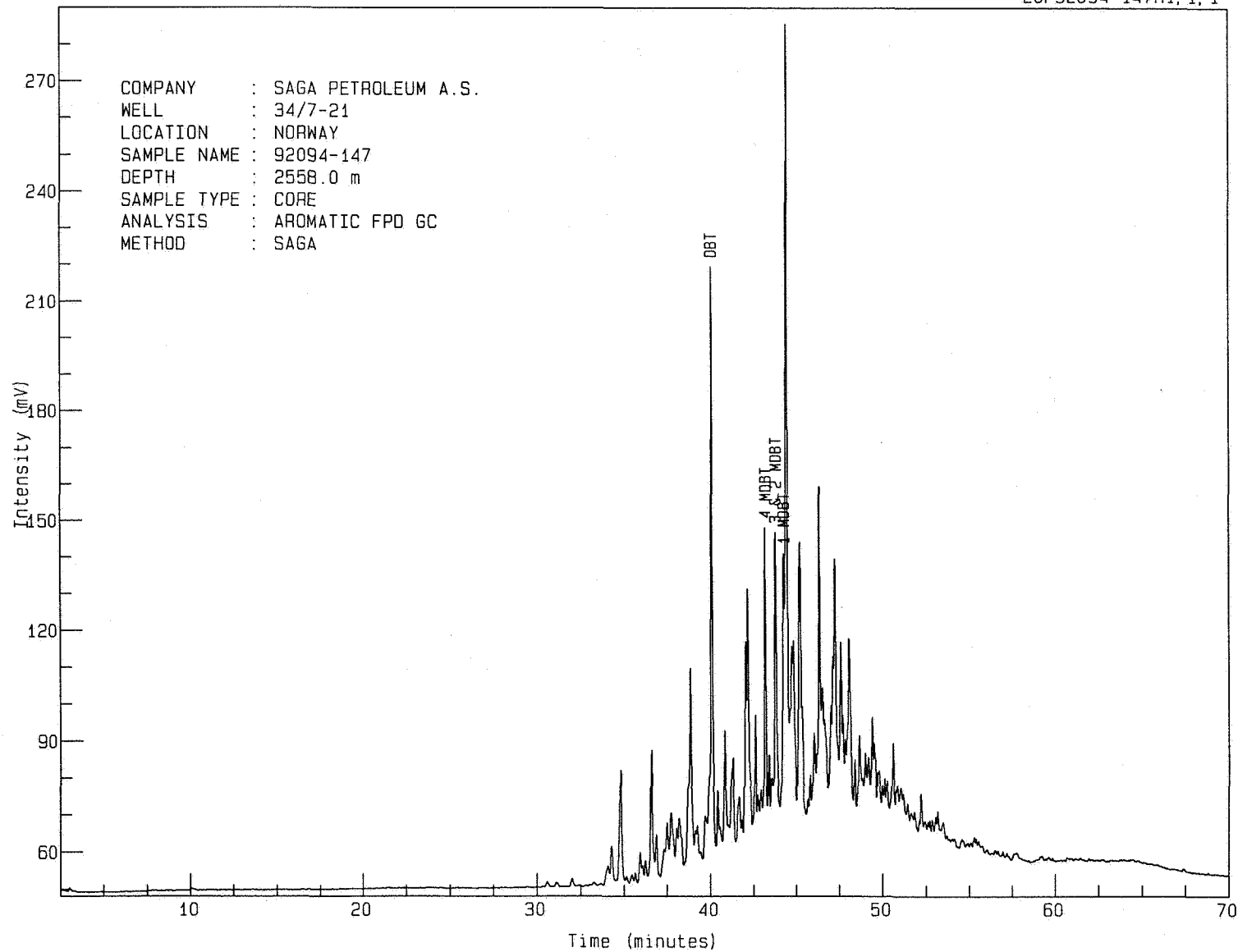


20F92094-140R0, 1, 1



20F92094-147R1, 1, 1

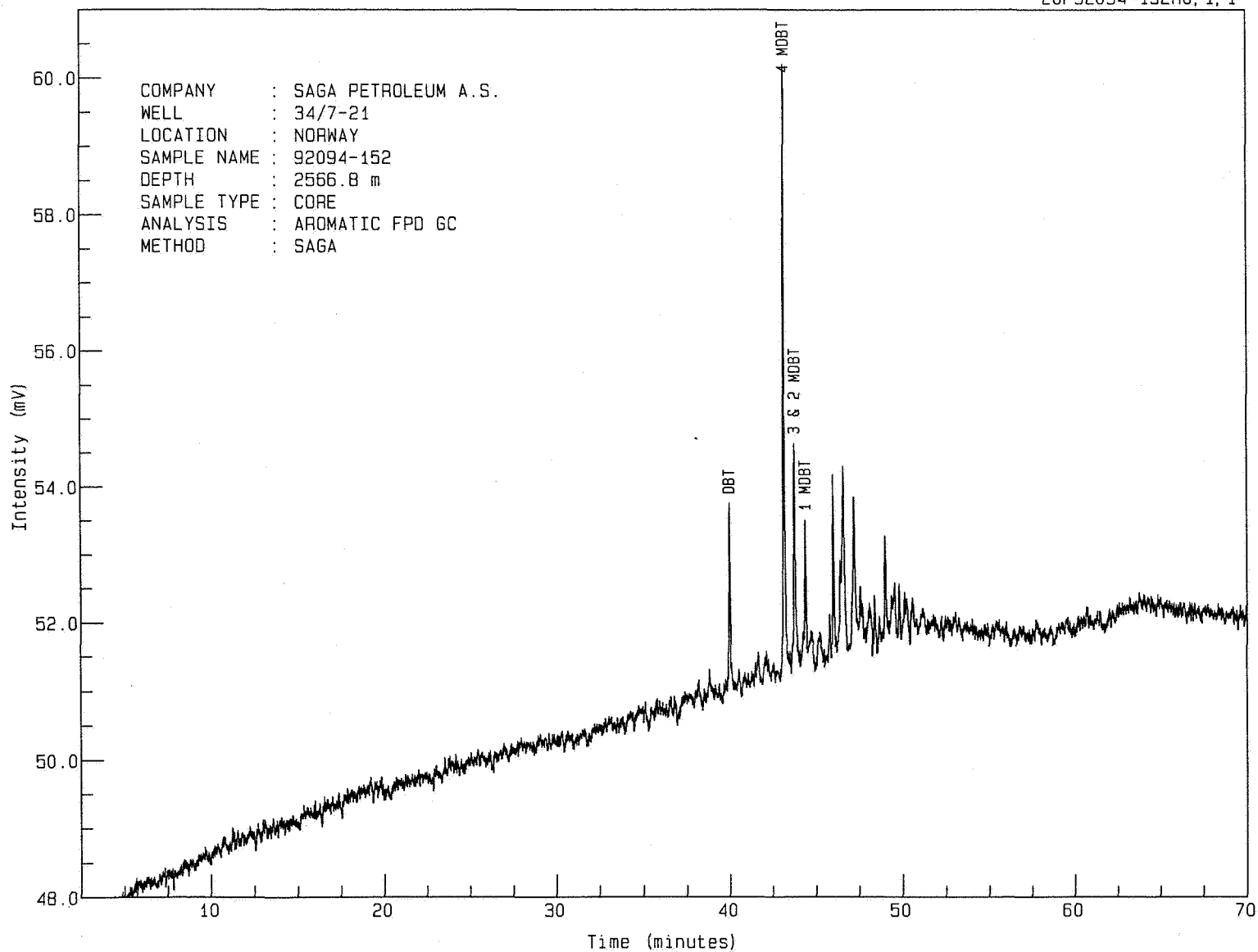
COMPANY : SAGA PETROLEUM A.S.
WELL : 34/7-21
LOCATION : NORWAY
SAMPLE NAME : 92094-147
DEPTH : 2558.0 m
SAMPLE TYPE : CORE
ANALYSIS : AROMATIC FPD GC
METHOD : SAGA



20F92094-152R0, 1, 1

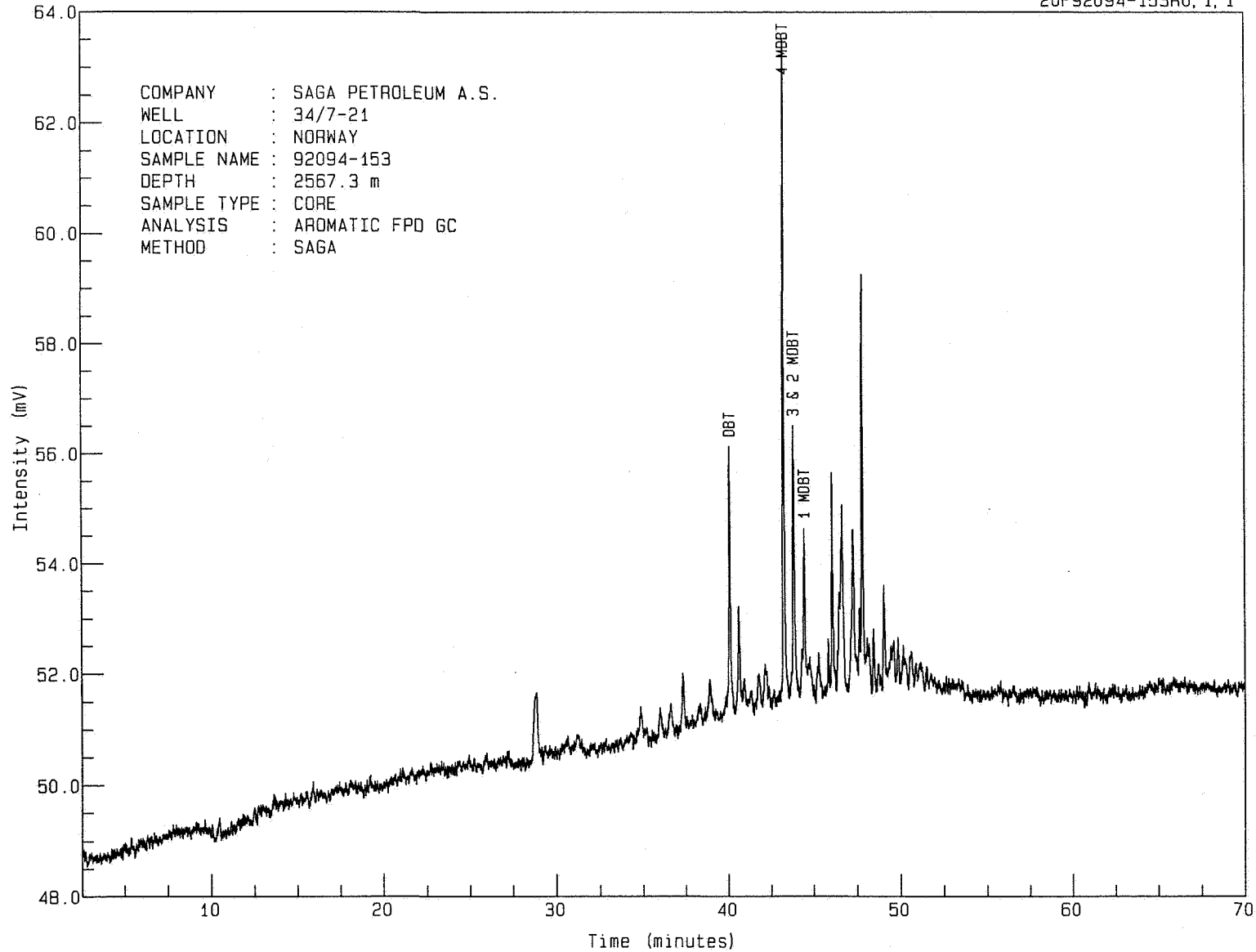
COMPANY : SAGA PETROLEUM A.S.
WELL : 34/7-21
LOCATION : NORWAY
SAMPLE NAME : 92094-152
DEPTH : 2566.8 m
SAMPLE TYPE : CORE
ANALYSIS : AROMATIC FPD GC
METHOD : SAGA

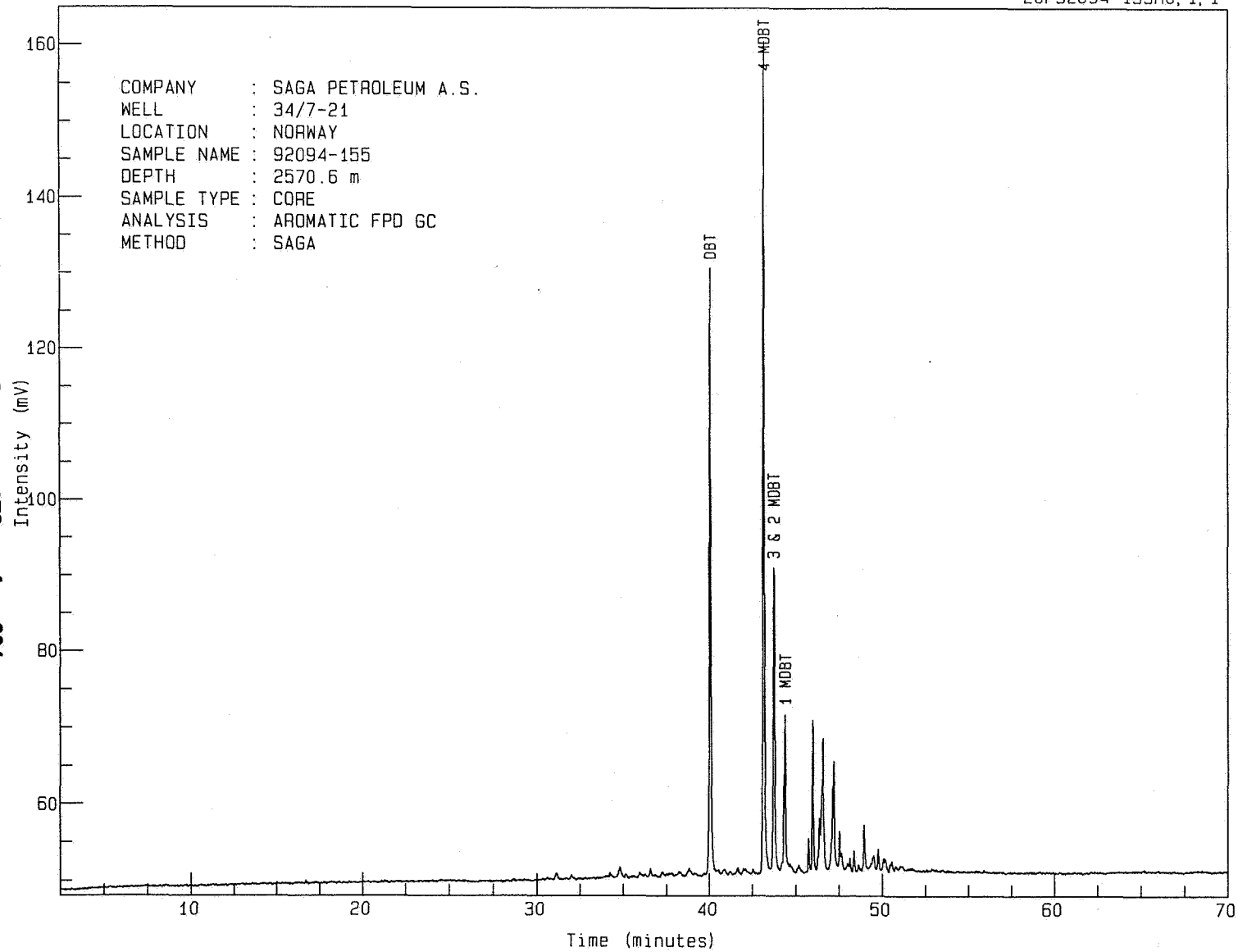
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20F92094-153R0, 1, 1

COMPANY : SAGA PETROLEUM A.S.
WELL : 34/7-21
LOCATION : NORWAY
SAMPLE NAME : 92094-153
DEPTH : 2567.3 m
SAMPLE TYPE : CORE
ANALYSIS : AROMATIC FPD GC
METHOD : SAGA

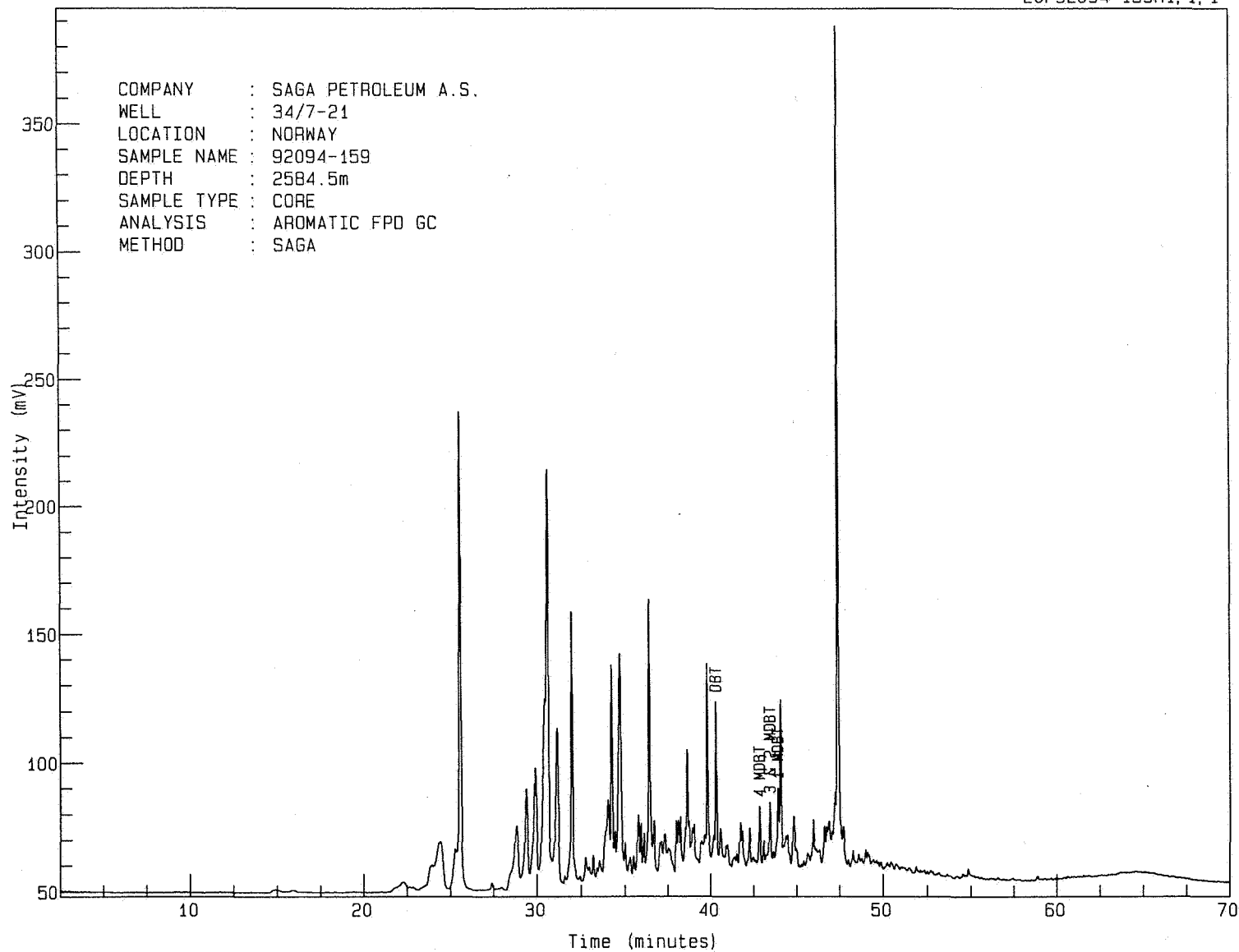




20F92094-159R1, 1, 1

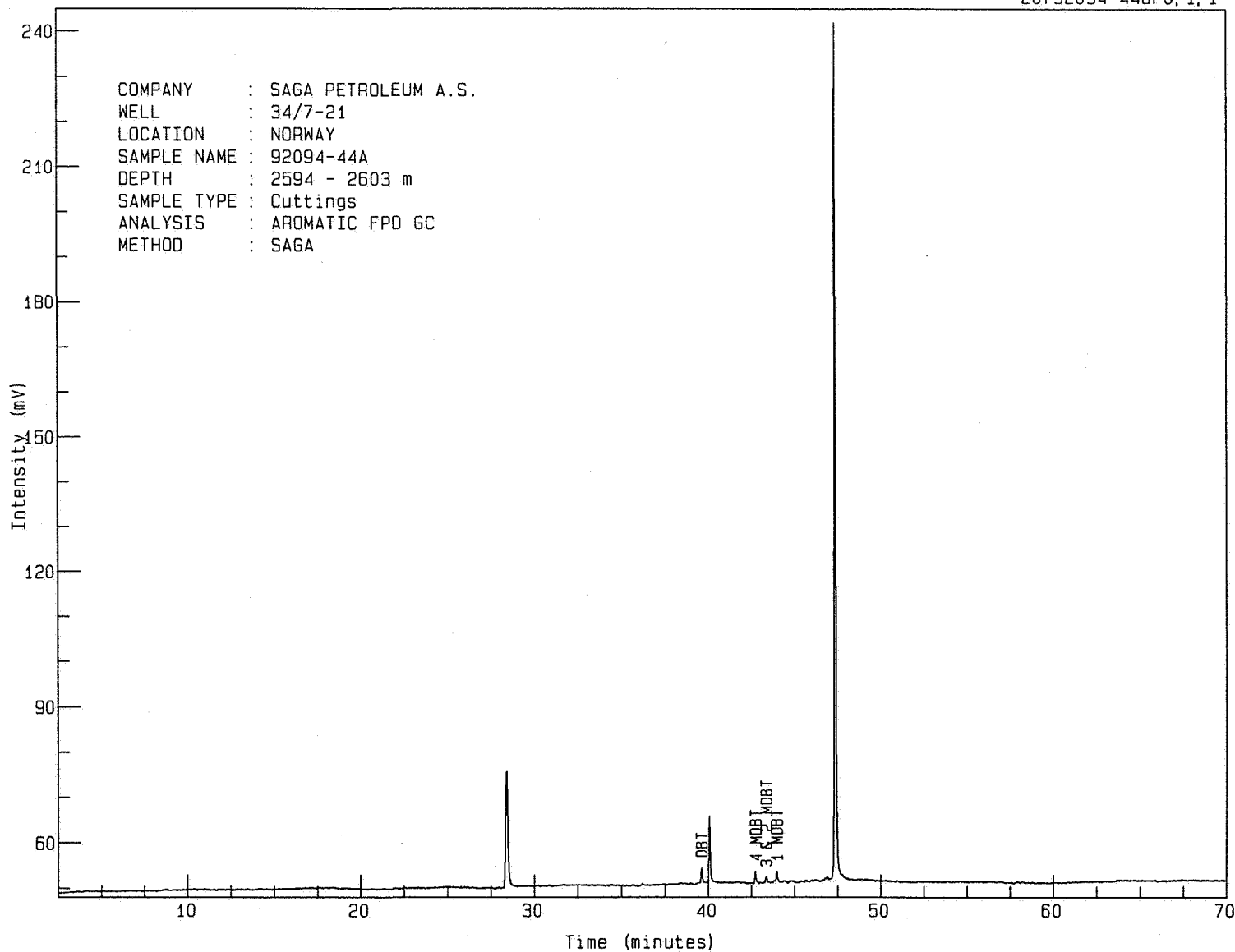
COMPANY : SAGA PETROLEUM A.S.
WELL : 34/7-21
LOCATION : NORWAY
SAMPLE NAME : 92094-159
DEPTH : 2584.5m
SAMPLE TYPE : CORE
ANALYSIS : AROMATIC FPD GC
METHOD : SAGA

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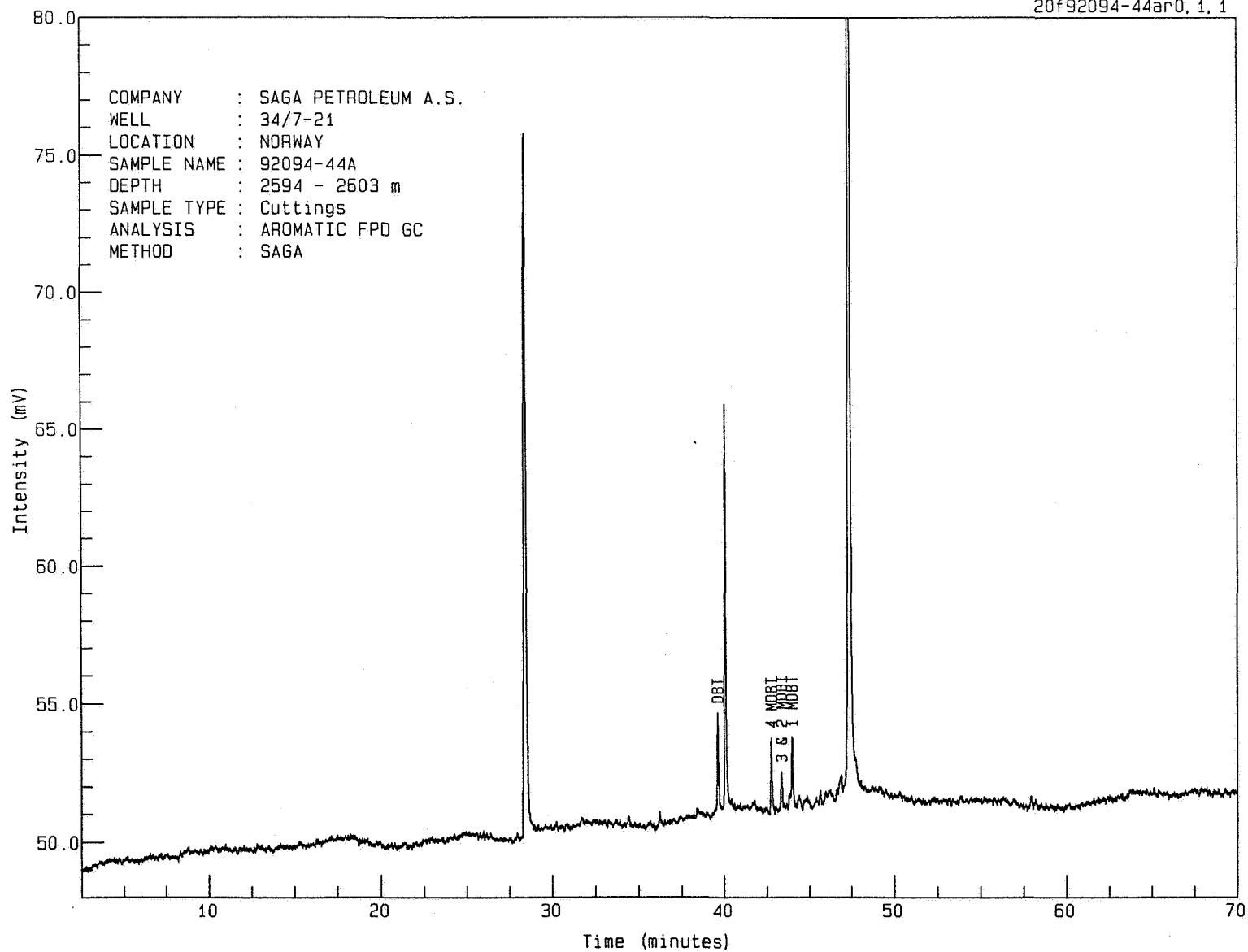


20f92094-44ar0, 1, 1

COMPANY : SAGA PETROLEUM A.S.
WELL : 34/7-21
LOCATION : NORWAY
SAMPLE NAME : 92094-44A
DEPTH : 2594 - 2603 m
SAMPLE TYPE : Cuttings
ANALYSIS : AROMATIC FPD GC
METHOD : SAGA



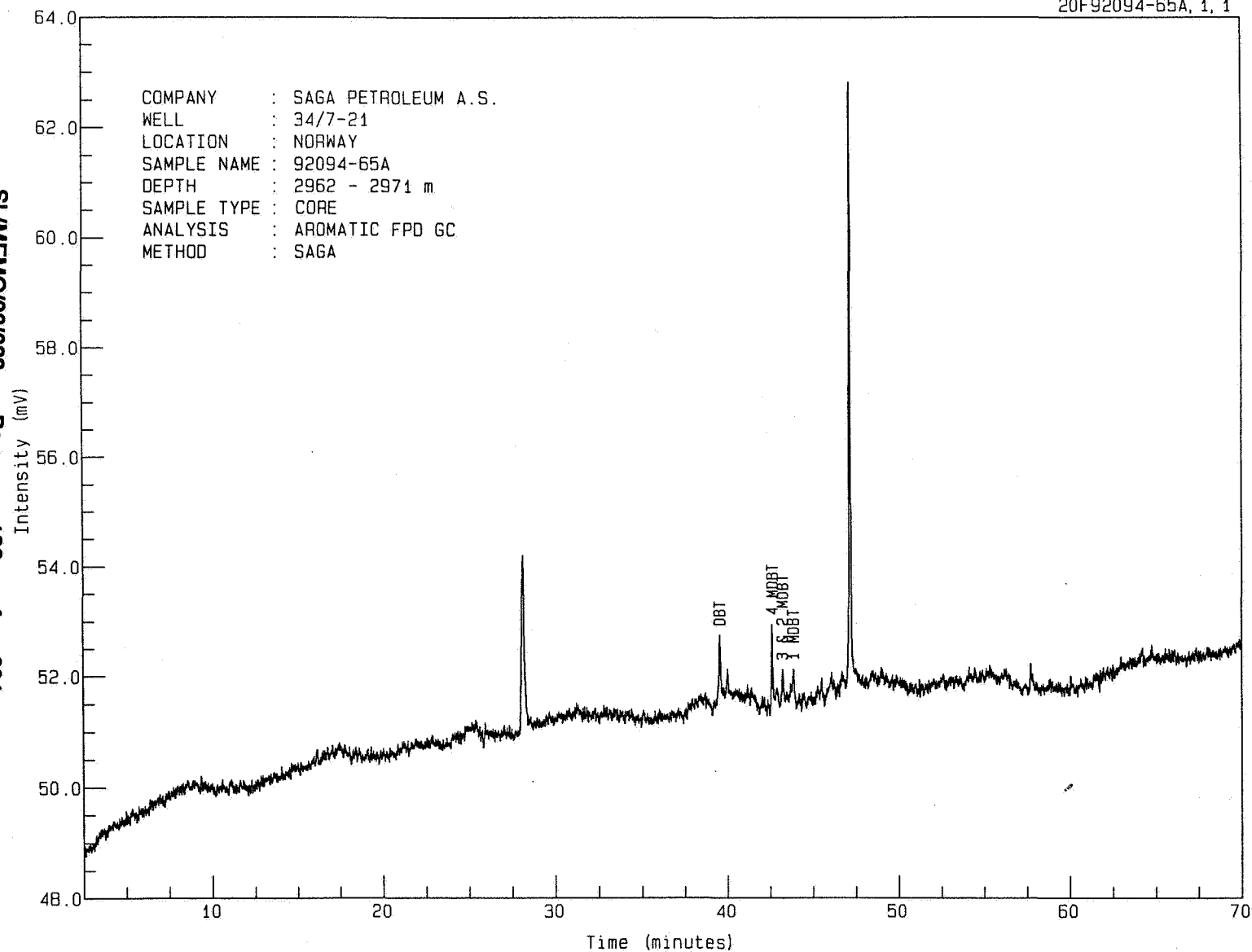
20f92094-44ar0, 1, 1



20F92094-65A, 1, 1

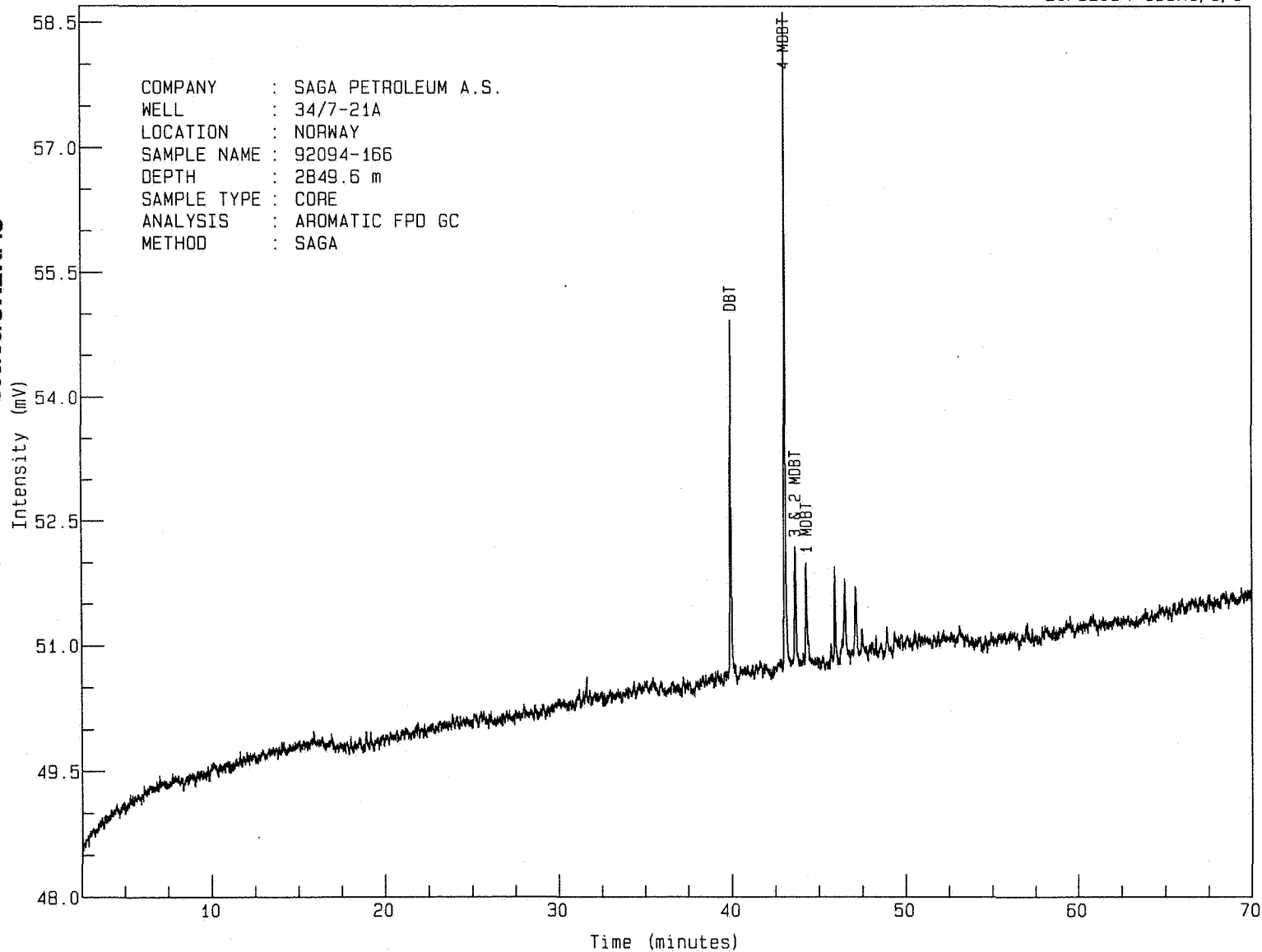
COMPANY : SAGA PETROLEUM A.S.
WELL : 34/7-21
LOCATION : NORWAY
SAMPLE NAME : 92094-65A
DEPTH : 2962 - 2971 m
SAMPLE TYPE : CORE
ANALYSIS : AROMATIC FPD GC
METHOD : SAGA

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20F92094-166R1, 1, 1

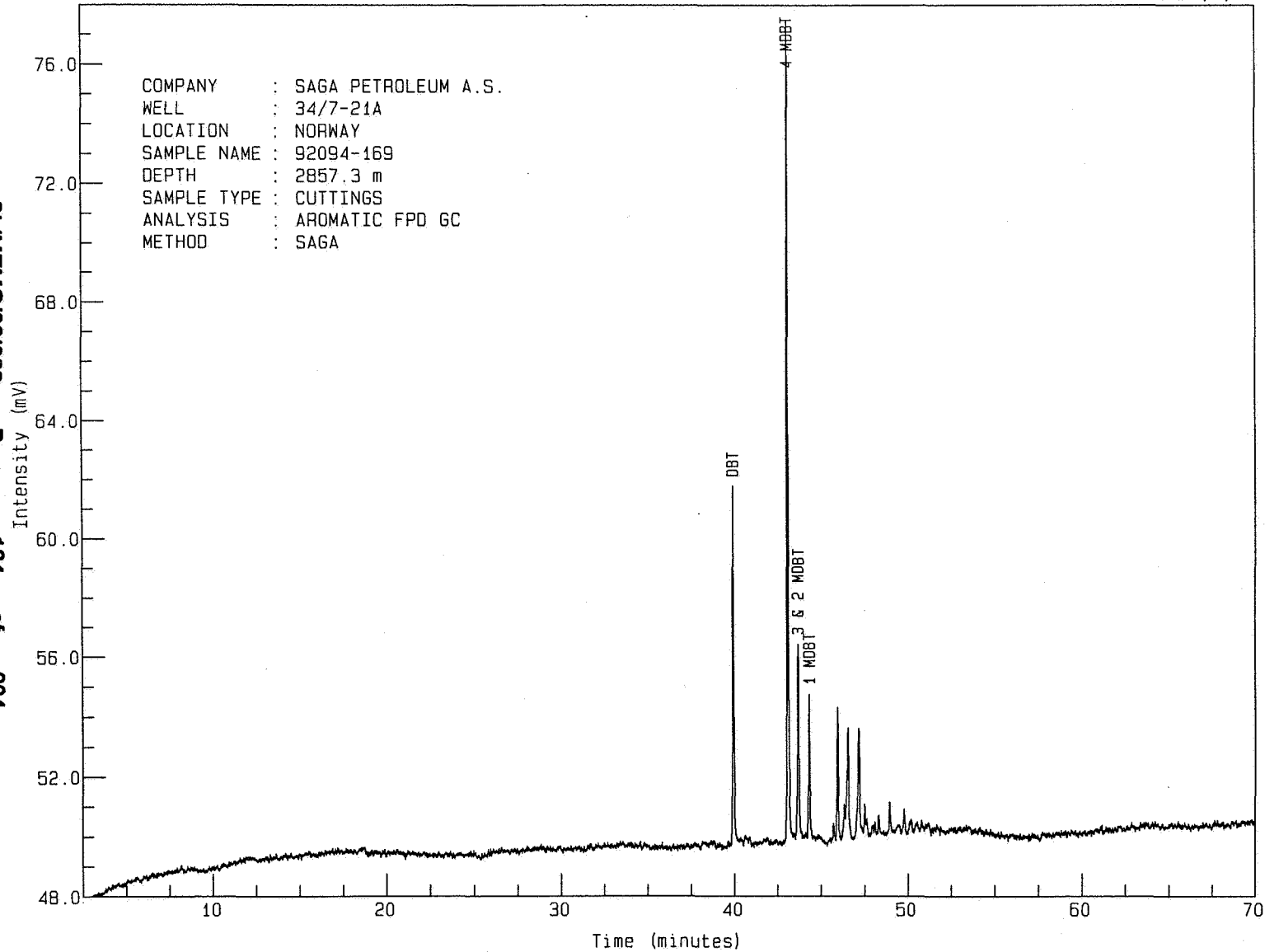
COMPANY : SAGA PETROLEUM A.S.
WELL : 34/7-21A
LOCATION : NORWAY
SAMPLE NAME : 92094-166
DEPTH : 2849.6 m
SAMPLE TYPE : CORE
ANALYSIS : AROMATIC FPD GC
METHOD : SAGA



20F92094-169R0, 1, 1

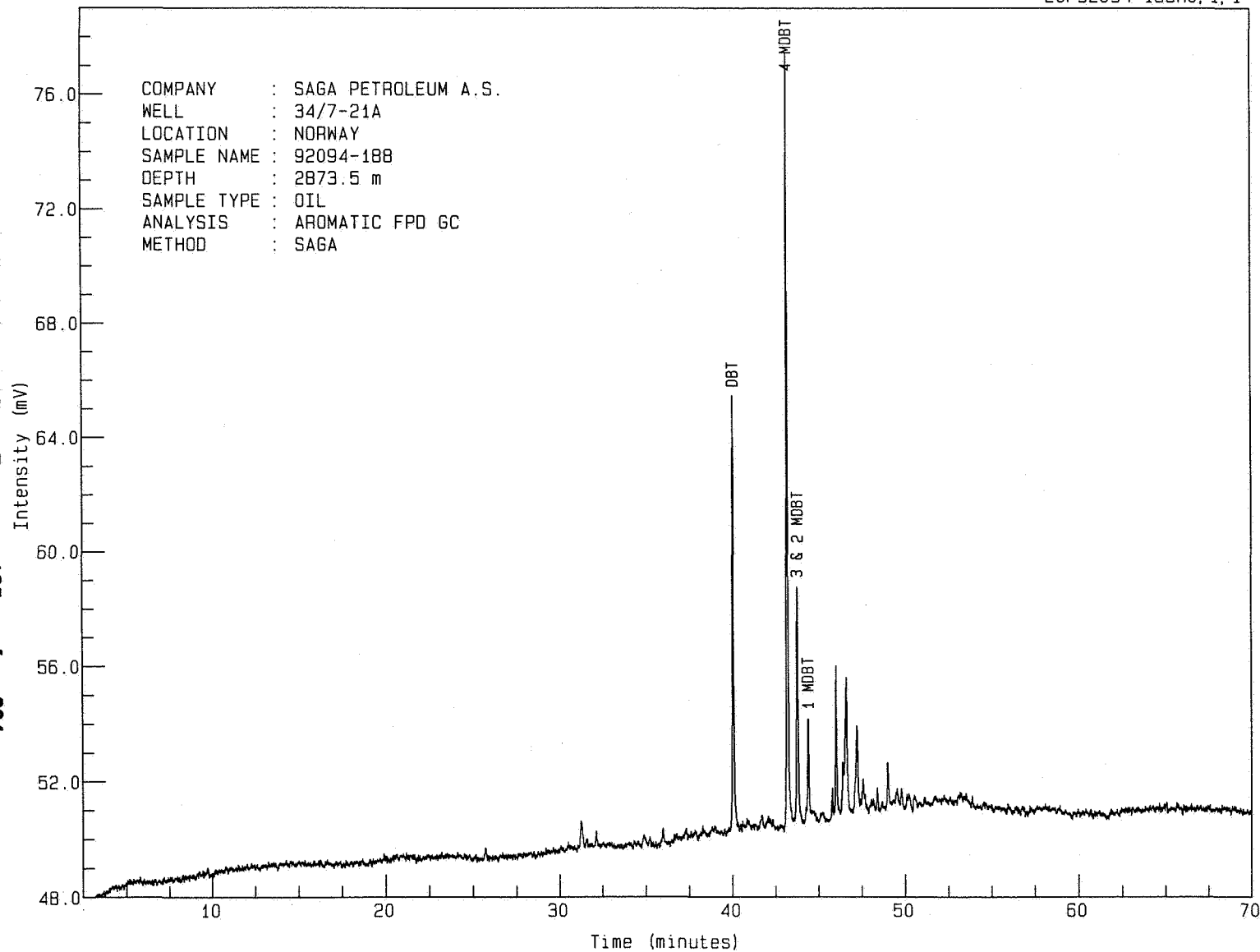
COMPANY : SAGA PETROLEUM A.S.
WELL : 34/7-21A
LOCATION : NORWAY
SAMPLE NAME : 92094-169
DEPTH : 2857.3 m
SAMPLE TYPE : CUTTINGS
ANALYSIS : AROMATIC FPD GC
METHOD : SAGA

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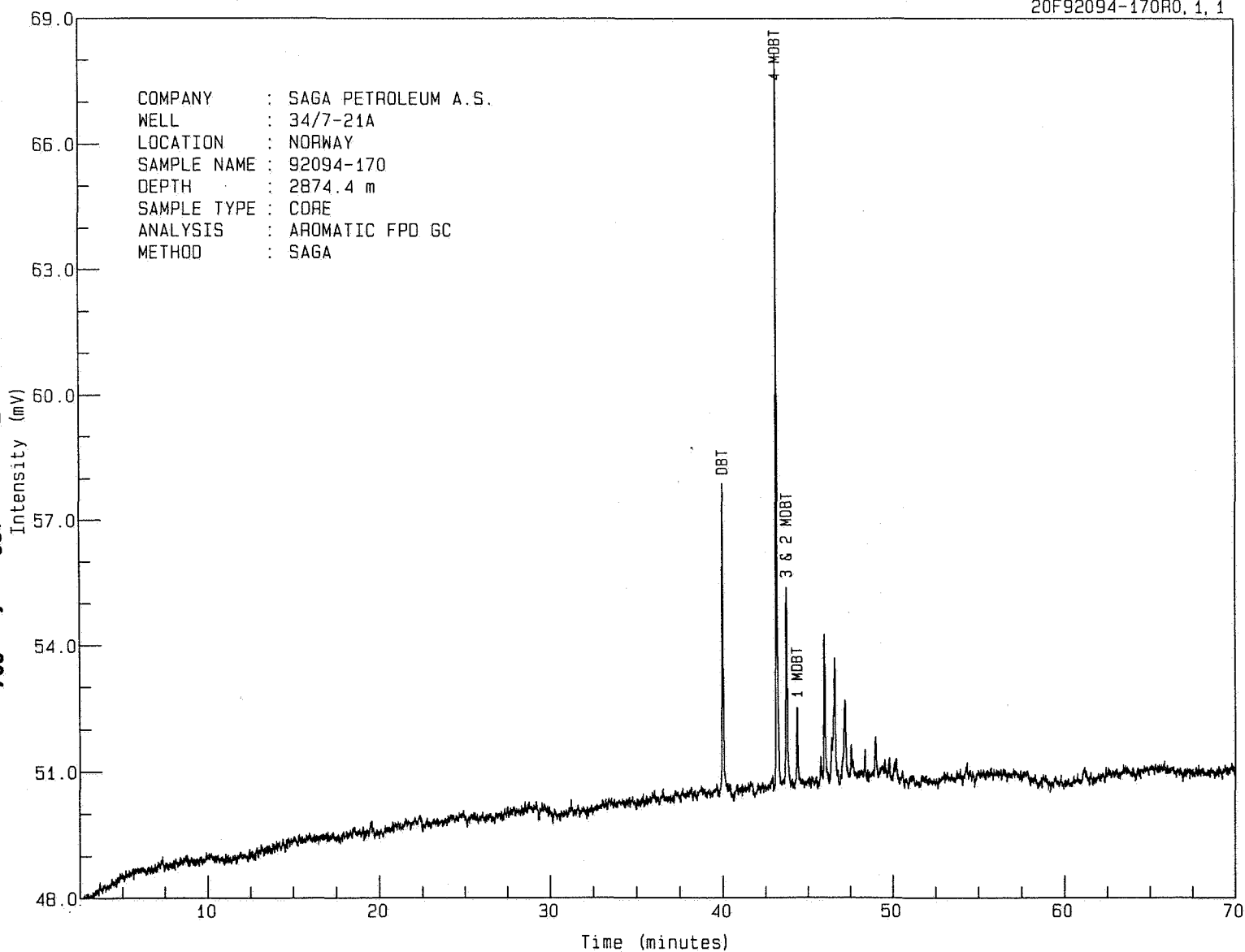


20F92094-188R0, 1, 1

COMPANY : SAGA PETROLEUM A.S.
WELL : 34/7-21A
LOCATION : NORWAY
SAMPLE NAME : 92094-188
DEPTH : 2873.5 m
SAMPLE TYPE : OIL
ANALYSIS : AROMATIC FPD GC
METHOD : SAGA



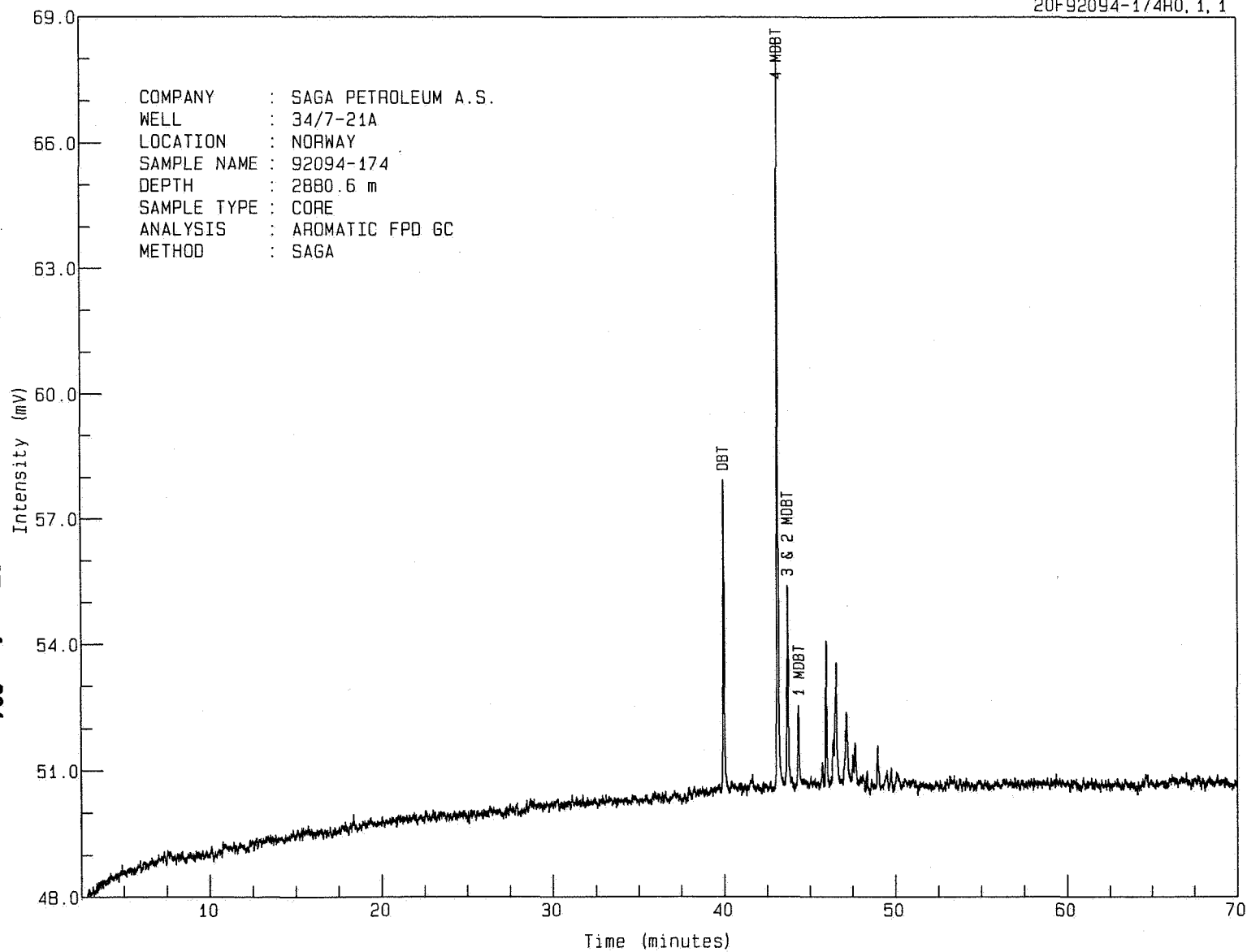
20F92094-170R0, 1, 1



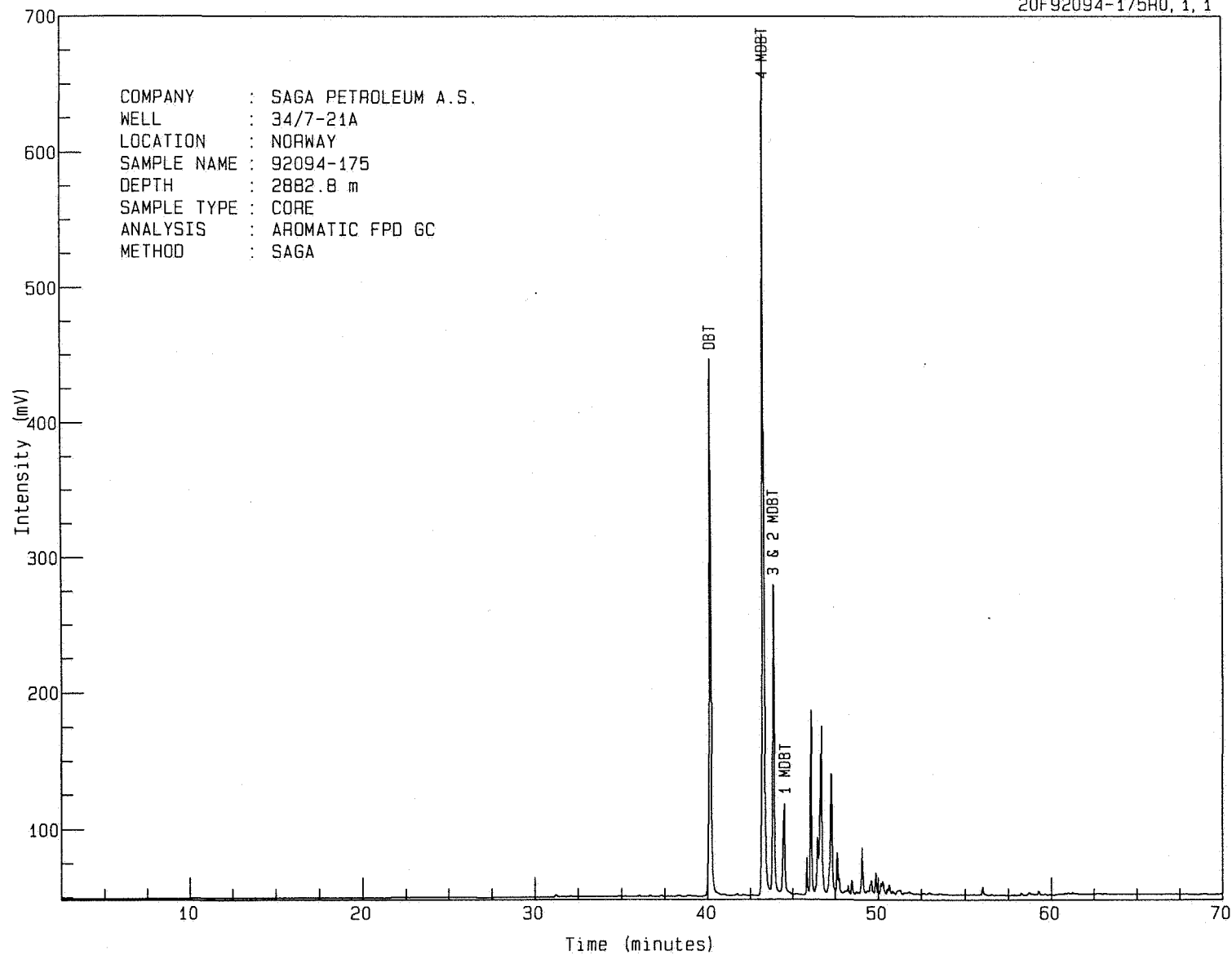
20F92094-174R0, 1, 1

COMPANY : SAGA PETROLEUM A.S.
WELL : 34/7-21A
LOCATION : NORWAY
SAMPLE NAME : 92094-174
DEPTH : 2880.6 m
SAMPLE TYPE : CORE
ANALYSIS : AROMATIC FPD GC
METHOD : SAGA

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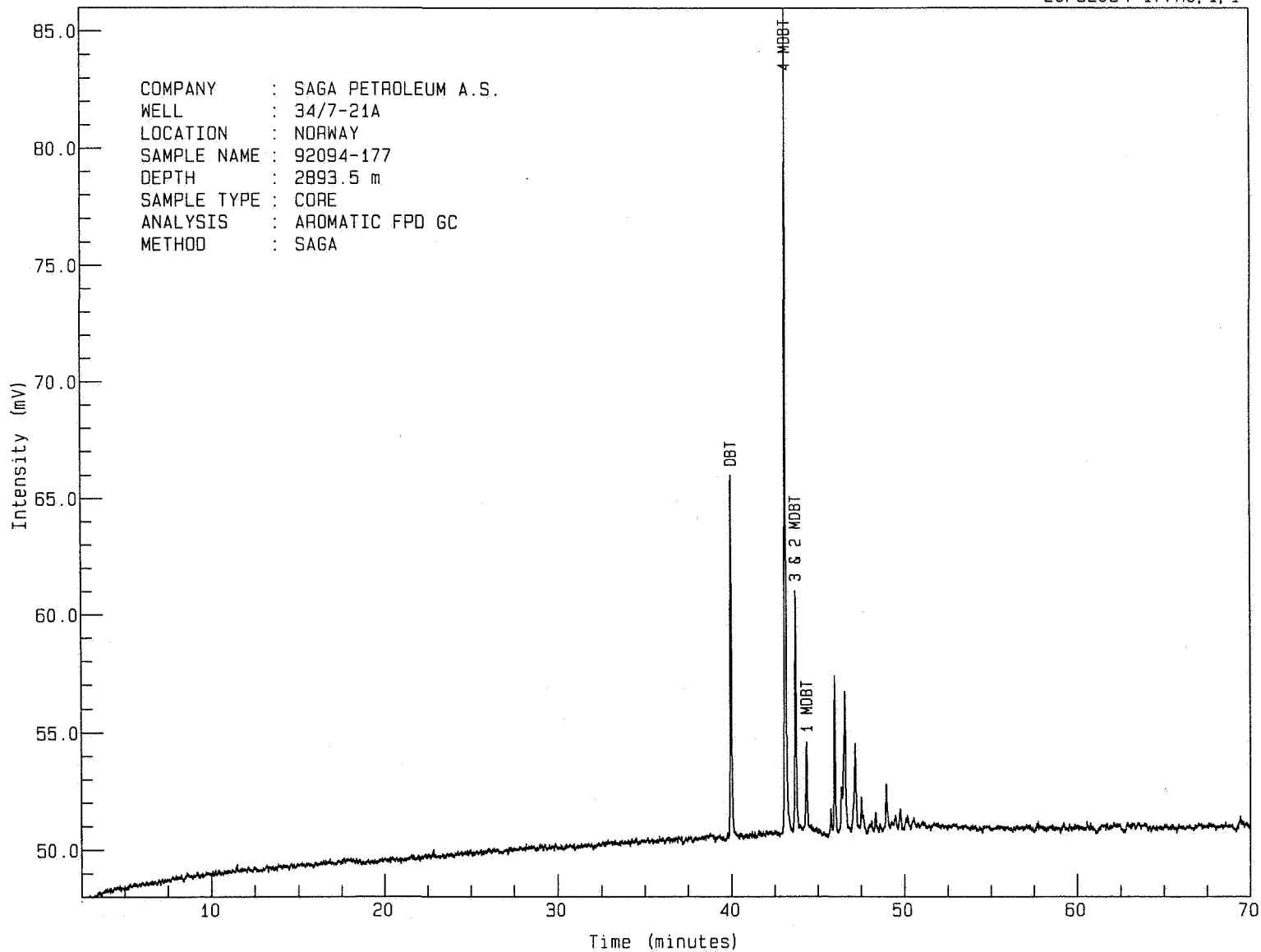


20F92094-175R0, 1, 1



20F92094-177R0, 1, 1

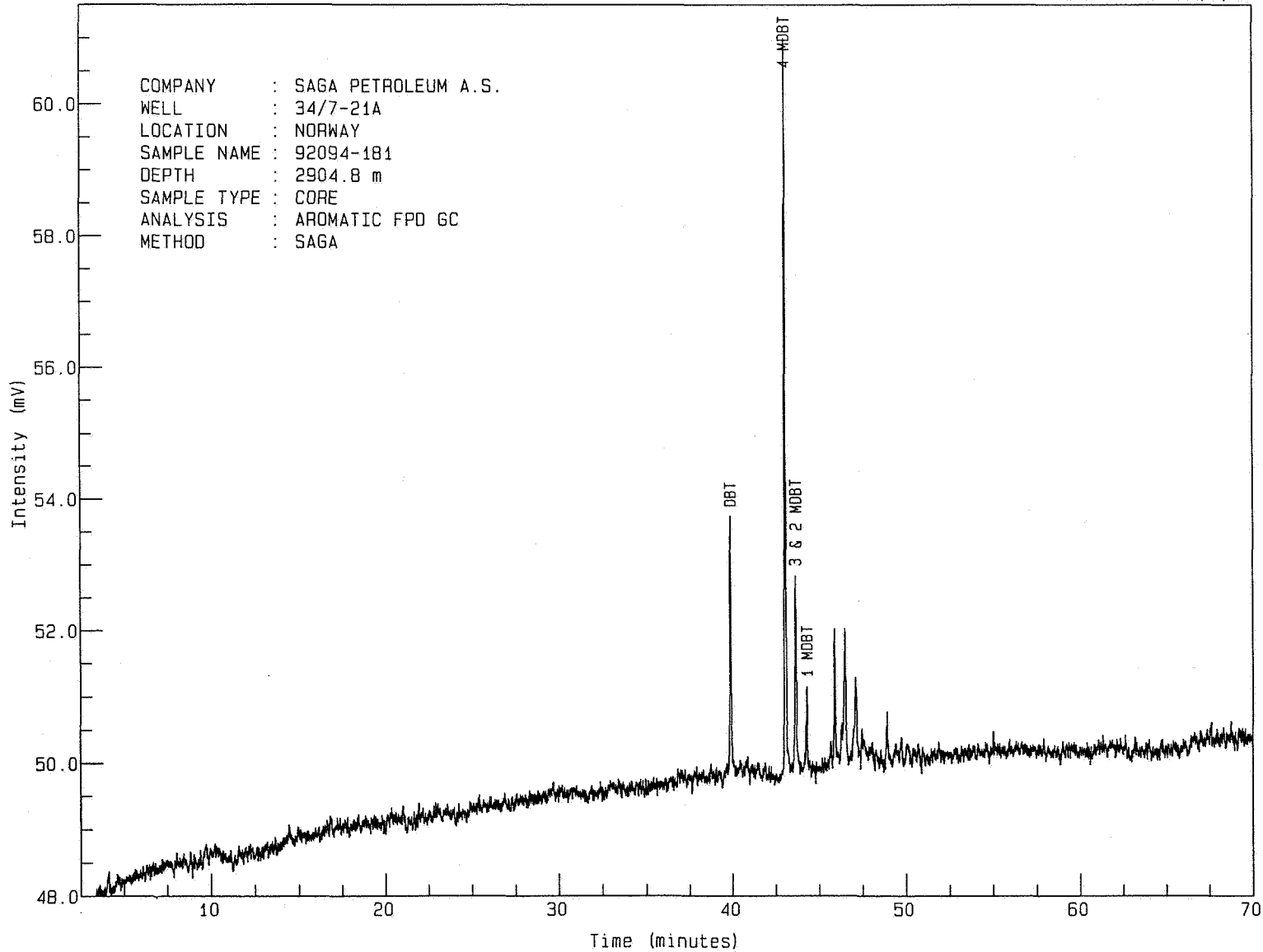
COMPANY : SAGA PETROLEUM A.S.
WELL : 34/7-21A
LOCATION : NORWAY
SAMPLE NAME : 92094-177
DEPTH : 2893.5 m
SAMPLE TYPE : CORE
ANALYSIS : AROMATIC FPD GC
METHOD : SAGA



20F92094-1B1R0, 1, 1

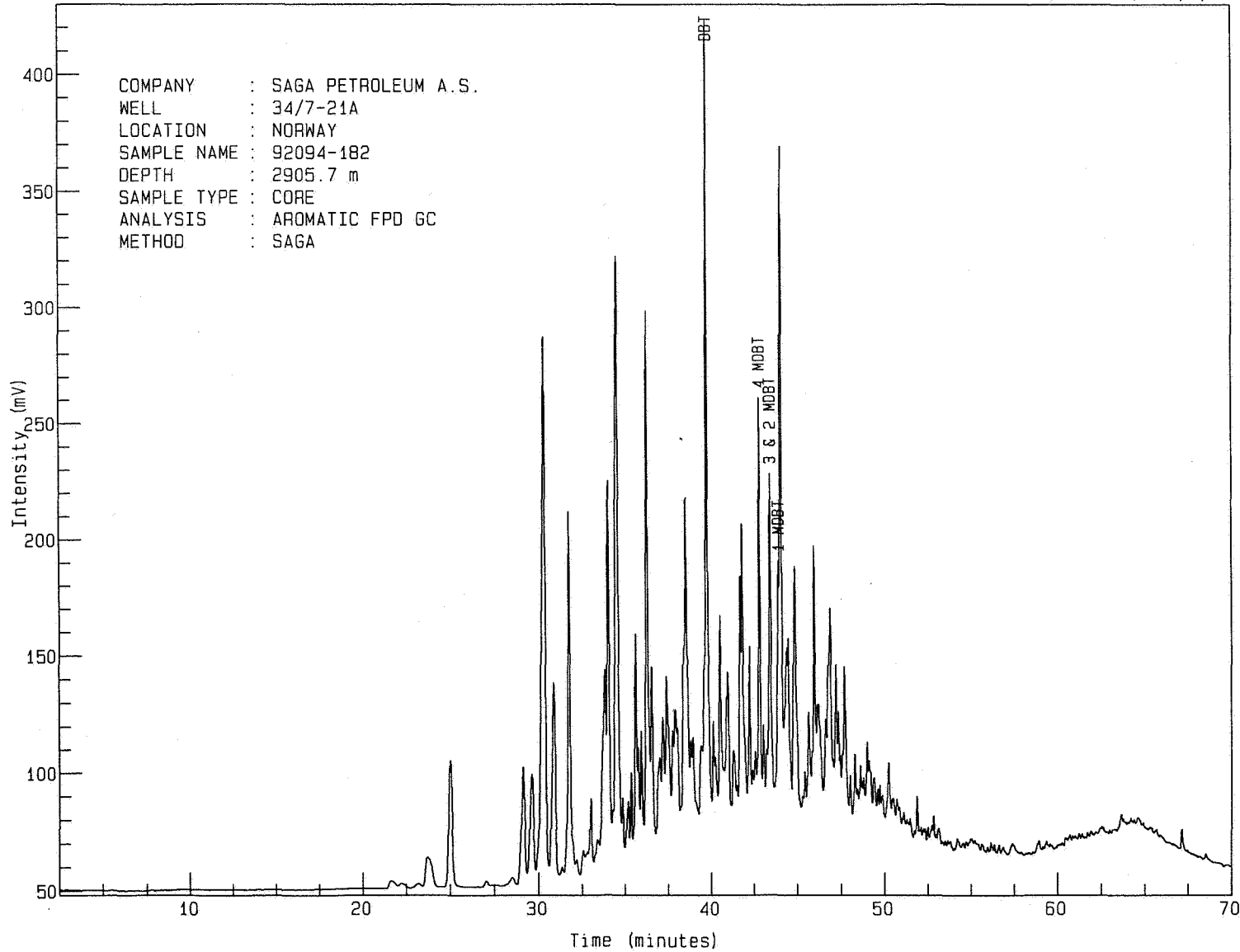
COMPANY : SAGA PETROLEUM A.S.
WELL : 34/7-21A
LOCATION : NORWAY
SAMPLE NAME : 92094-1B1
DEPTH : 2904.8 m
SAMPLE TYPE : CORE
ANALYSIS : AROMATIC FPD GC
METHOD : SAGA

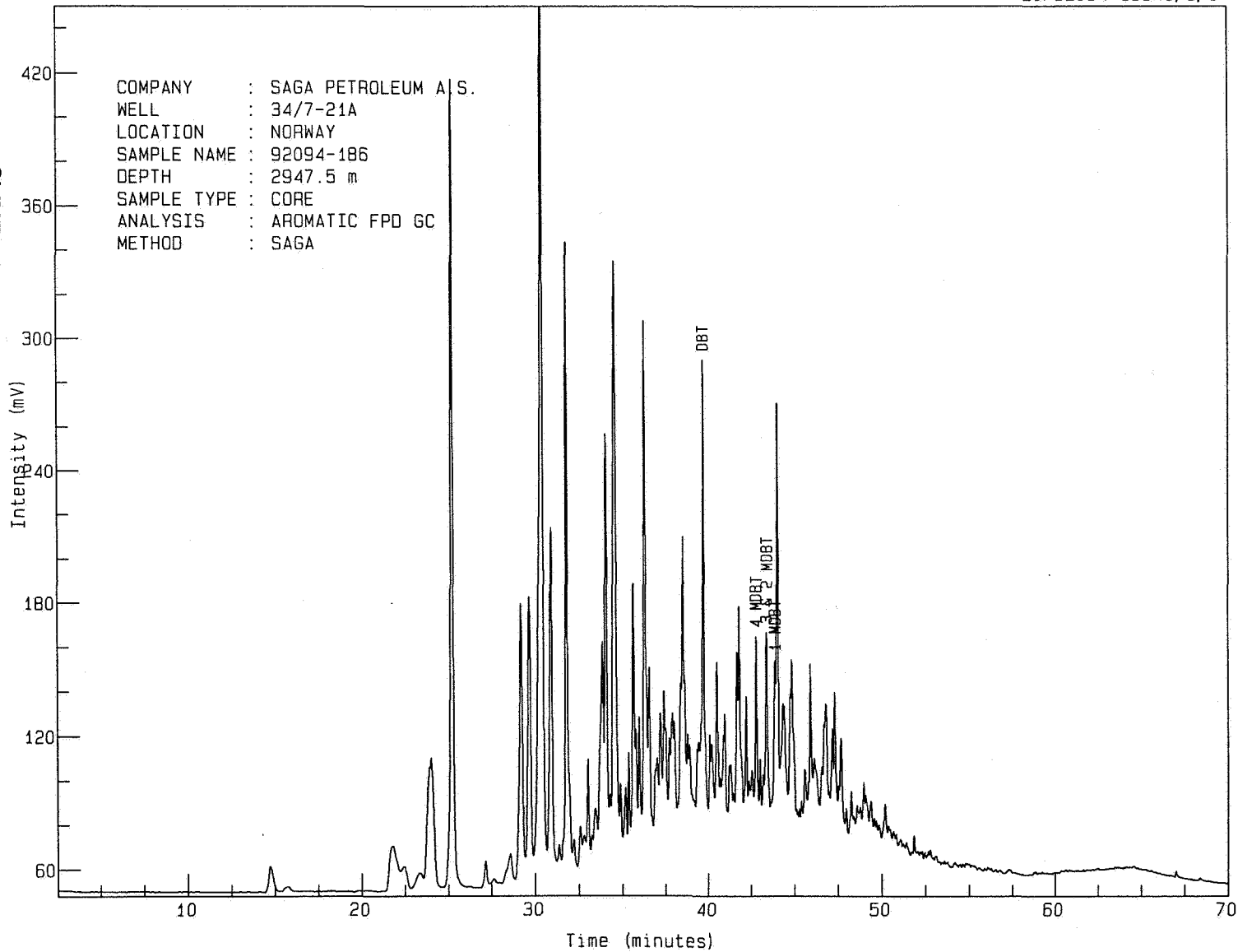
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20f92094-182r1, 1, 1

COMPANY : SAGA PETROLEUM A.S.
WELL : 34/7-21A
LOCATION : NORWAY
SAMPLE NAME : 92094-182
DEPTH : 2905.7 m
SAMPLE TYPE : CORE
ANALYSIS : AROMATIC FPD GC
METHOD : SAGA

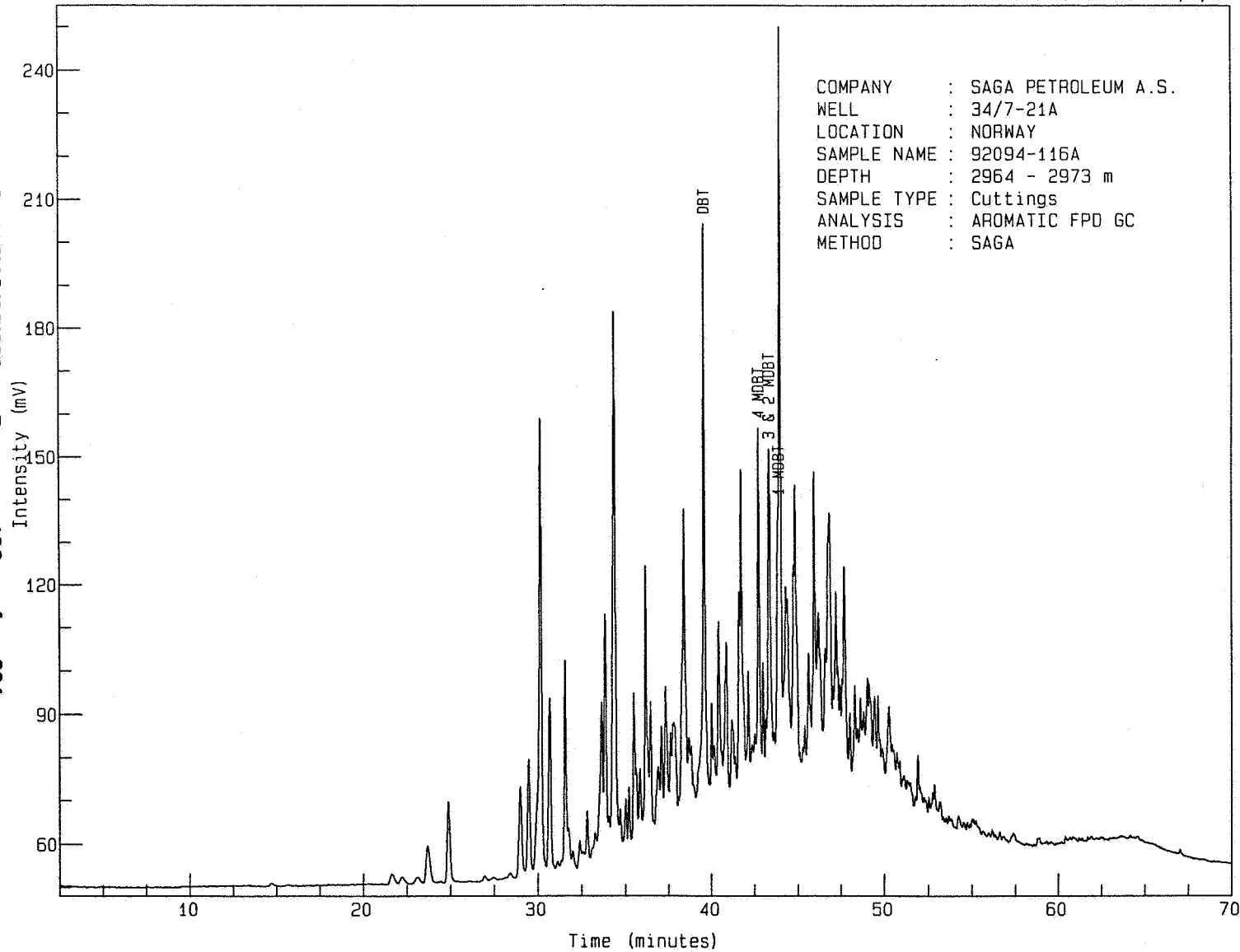




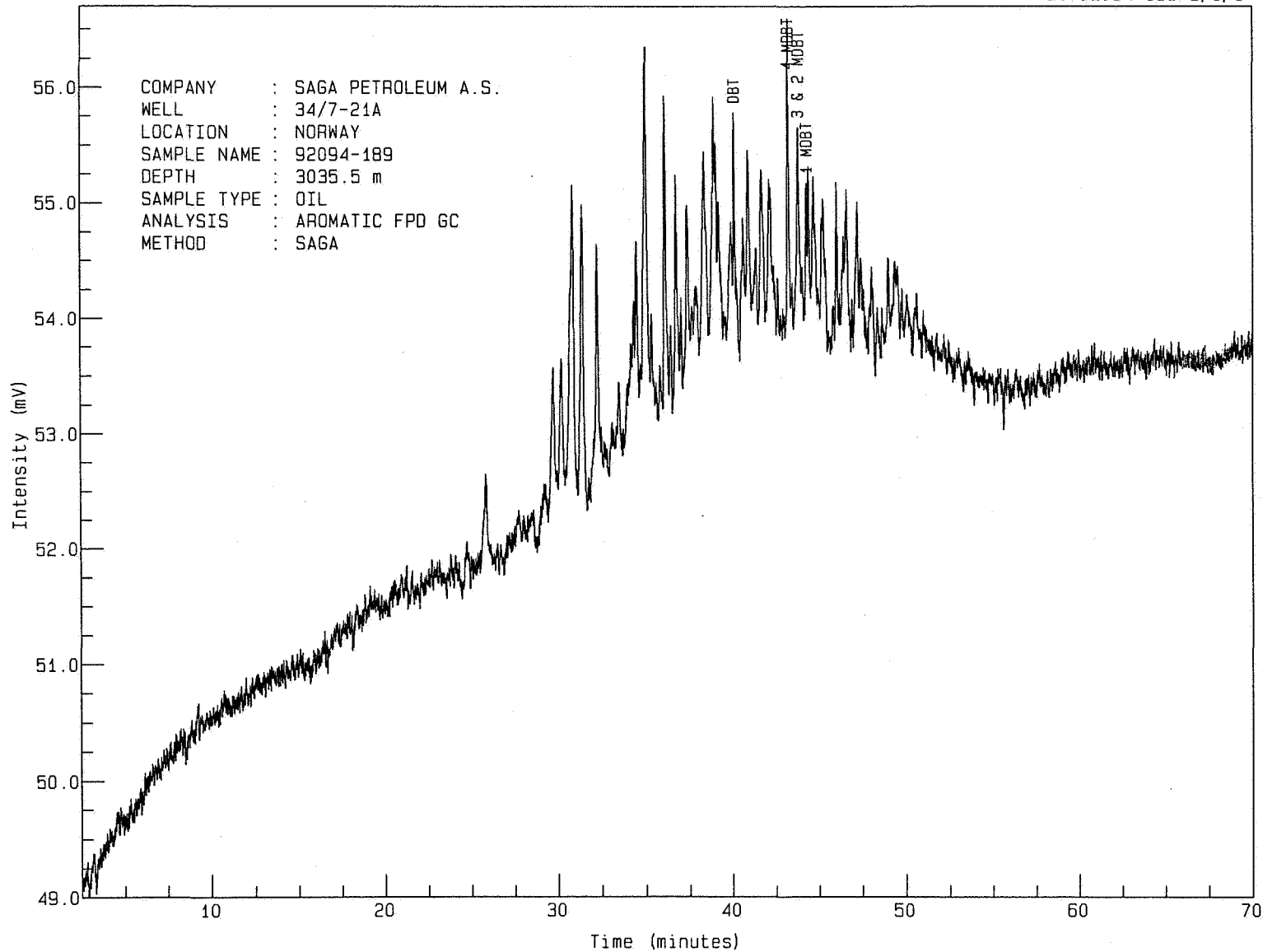
20F92094-116AR2.1.1

COMPANY : SAGA PETROLEUM A.S.
WELL : 34/7-21A
LOCATION : NORWAY
SAMPLE NAME : 92094-116A
DEPTH : 2964 - 2973 m
SAMPLE TYPE : Cuttings
ANALYSIS : AROMATIC FPD GC
METHOD : SAGA

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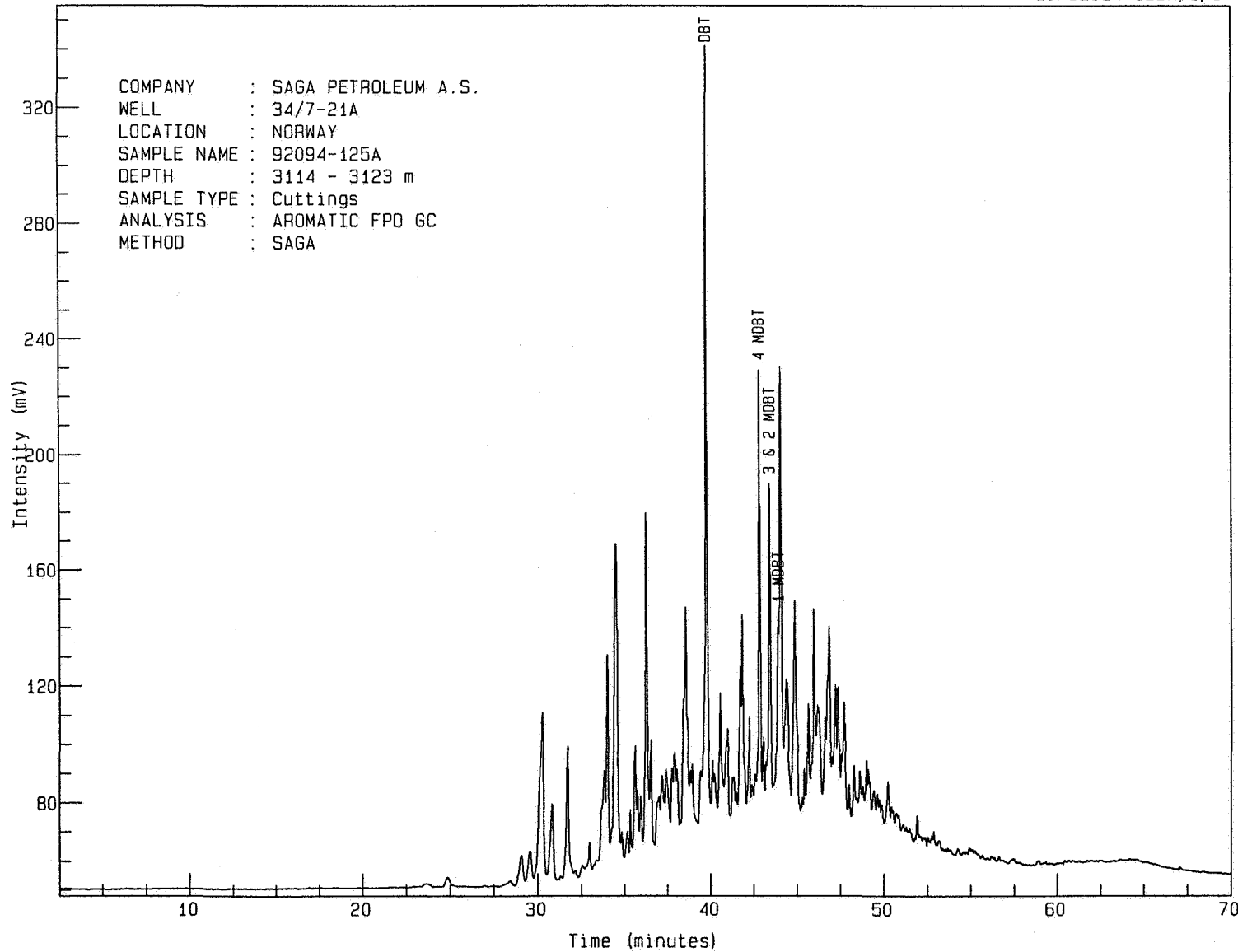
20f92094-189r2, 1, 1



20F92094-125A, 1, 1

COMPANY : SAGA PETROLEUM A.S.
WELL : 34/7-21A
LOCATION : NORWAY
SAMPLE NAME : 92094-125A
DEPTH : 3114 - 3123 m
SAMPLE TYPE : Cuttings
ANALYSIS : AROMATIC FPD GC
METHOD : SAGA

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SATURATE GC/MS - PEAK HEIGHT DATA

Table 18

Well Name	Nation	Sample Name	Upper Depth	Lower Depth	Sample Type	Lith	191 IONS								
							A	B	Z	C	C	X	D	E	F
34/7-21	NOR	92094-35A	2400.0	2410.0	CUT	Clyst	6579	5789	7105	16316	7895	2632	6526	42105	6632
34/7-21	NOR	92094-163	DST 1	DST 1	Oil		3712	2708	4614	7624	3310	1755	702	17354	1455
34/7-21	NOR	92094-164	2498.5	2498.5	Oil		3795	3253	4819	9398	3735	1687	843	20602	1687
34/7-21	NOR	92094-134	2518.7	2518.7	CCP	Sst	7817	5133	9800	16450	7233	3500	1400	36633	3150
34/7-21	NOR	92094-138	2537.45	2537.45	CCP	Sst	17015	12923	18954	29723	14215	6892	3662	69354	6246
34/7-21	NOR	92094-140	2541.2	2541.2	CCP	Sst	8765	7654	10370	17284	7160	3210	1679	39506	3457
34/7-21	NOR	92094-147	2558.0	2558.0	CCP	Clyst	3037	7454	414	11181	5245	2761	6902	44724	9110
34/7-21	NOR	92094-152	2566.8	2566.8	CCP	Sst	6786	5893	7679	13393	5536	2500	1518	28571	2589
34/7-21	NOR	92094-153	2567.3	2567.3	CCP	Sst	6938	6375	7313	12375	5625	2250	1406	30000	2625
34/7-21	NOR	92094-155	2570.6	2570.6	CCP	Clyst	12727	15273	13091	26909	10545	4000	4727	58909	6545
34/7-21	NOR	92094-159	2584.5	2584.5	CCP	Clyst	478	4437		4505	785	956	2321	10102	3345
34/7-21	NOR	92094-44A	2594.0	2603.0	CUT	Clyst	8304	20318	4240	34452	9541	4417	13428	56360	14134
34/7-21	NOR	92094-50A	2648.0	2657.0	CUT	Clyst	Sample too weak for analysis								
34/7-21	NOR	92094-55A	2693.0	2702.0	CUT	Clyst	Sample too weak for analysis								
34/7-21	NOR	92094-65A	2962.0	2971.0	CUT	Clyst	1398	2236	839	29348	2935	2795	13416	45559	20124
34/7-21A	NOR	92094-166	2849.6	2849.6	CCP	Sst	3841	3245	4901	9470	3775	1722	795	21457	1722
34/7-21A	NOR	92094-169	2857.3	2857.3	CCP	Lst	12500	10764	12847	27431	10417	4167	2083	56250	4514
34/7-21A	NOR	92094-188	2873.5	2873.5	Oil		2432	1757	3142	5473	2432	1250	507	11419	1047
34/7-21A	NOR	92094-170	2874.35	2874.35	CCP	Sst	5896	4940	6215	11155	4781	2311	1116	25339	2311
34/7-21A	NOR	92094-174	2880.6	2880.6	CCP	Sst	9085	7183	9507	16056	6444	3169	1585	33592	2746
34/7-21A	NOR	92094-175	2882.8	2882.8	CCP	Clyst/Sh	4490	7347	1020	17449	5102	1224	6837	32653	5102
34/7-21A	NOR	92094-177	2893.5	2893.5	CCP	slty Sst	7179	6068	7692	12308	5299	2393	1111	27009	2051
34/7-21A	NOR	92094-181	2904.8	2904.8	CCP	slty Sst	13115	11148	14590	23934	9672	4918	2623	52295	4262
34/7-21A	NOR	92094-182	2905.7	2905.7	CCP	Clyst	2426	6176	551	9485	3750	1765	4412	35956	6838
34/7-21A	NOR	92094-186	2947.5	2947.5	CCP	Clyst	2357	5571	643	8786	3536	2143	5250	35143	6857
34/7-21A	NOR	92094-116A	2964.0	2973.0	CUT	Clyst	8946	7289	10768	22530	9111	3810	1822	53343	4804
34/7-21A	NOR	92094-189	3035.5	3035.5	Oil		3602	2733	4596	9193	3851	1739	1118	21739	1491
34/7-21A	NOR	92094-125A	3114.0	3123.0	CUT	Clyst	3000	11000	1000	20000	6333	4000	11000	54333	13500

SATURATE GC/MS - PEAK HEIGHT DATA

Table 18

Well Name	Nation	Sample Name	Upper Depth	Lower Depth	Sample Type	Lith	191 IONS								
							G1	G2	J1	J2	K1	K2	L1	L2	M1
34/7-21	NOR	92094-35A	2400.0	2410.0	CUT	Clyst	10658	13421	5526	5000	3158	2368	1842	1500	1342
34/7-21	NOR	92094-163	DST 1	DST 1	Oil		6721	4514	3611	2307	2458	1505	1204	853	903
34/7-21	NOR	92094-164	2498.5	2498.5	Oil		7711	5422	4639	3012	2771	1747	1325	843	964
34/7-21	NOR	92094-134	2518.7	2518.7	CCP	Sst	14233	9800	8167	5483	5250	3267	2683	2053	2217
34/7-21	NOR	92094-138	2537.45	2537.45	CCP	Sst	30154	20246	20677	13354	13785	9046	7754	4308	5169
34/7-21	NOR	92094-140	2541.2	2541.2	CCP	Sst	13580	9383	8395	5926	5802	3457	2593	1605	1975
34/7-21	NOR	92094-147	2558.0	2558.0	CCP	Clyst	8558	12147	3865	6212	3037	4417	1933	2485	1933
34/7-21	NOR	92094-152	2566.8	2566.8	CCP	Sst	10714	7589	6607	4821	4286	2857	2143	1429	1518
34/7-21	NOR	92094-153	2567.3	2567.3	CCP	Sst	11063	7500	6563	4500	4031	2719	1875	1313	1350
34/7-21	NOR	92094-155	2570.6	2570.6	CCP	Clyst	21455	17091	10545	10000	7091	5455	3455	2909	2364
34/7-21	NOR	92094-159	2584.5	2584.5	CCP	Clyst	4300	5324	1297	1809	683	956	580	580	628
34/7-21	NOR	92094-44A	2594.0	2603.0	CUT	Clyst	19258	23322	5300	7774	3145	3216	1484	1767	1237
34/7-21	NOR	92094-50A	2648.0	2657.0	CUT	Clyst	Sample too weak for analysis								
34/7-21	NOR	92094-55A	2693.0	2702.0	CUT	Clyst	Sample too weak for analysis								
34/7-21	NOR	92094-65A	2962.0	2971.0	CUT	Clyst	33121	26832	6149	6708	1537	1677	559	699	280
34/7-21A	NOR	92094-166	2849.6	2849.6	CCP	Sst	7881	5430	4636	3046	2781	1788	1325	795	927
34/7-21A	NOR	92094-169	2857.3	2857.3	CCP	Lst	21181	13889	12153	8333	7986	4861	3299	2083	2431
34/7-21A	NOR	92094-188	2873.5	2873.5	Oil		4392	2804	2568	1622	1689	7905	878	574	676
34/7-21A	NOR	92094-170	2874.35	2874.35	CCP	Sst	8606	5896	5259	3745	3506	2072	1594	1036	1195
34/7-21A	NOR	92094-174	2880.6	2880.6	CCP	Sst	12254	8028	7500	5493	5070	3169	2535	1585	1585
34/7-21A	NOR	92094-175	2882.8	2882.8	CCP	Clyst/Sh	7551	9592	3265	4796	3061	4898	1837	2653	2653
34/7-21A	NOR	92094-177	2893.5	2893.5	CCP	sity Sst	9060	6325	5983	4103	3761	2393	1538	1026	1197
34/7-21A	NOR	92094-181	2904.8	2904.8	CCP	sity Sst	11475	15738	4918	8689	4590	6885	1967	3607	2787
34/7-21A	NOR	92094-182	2905.7	2905.7	CCP	Clyst	7721	9596	3199	5184	3088	4853	1765	2206	1324
34/7-21A	NOR	92094-186	2947.5	2947.5	CCP	Clyst	13714	8786	8036	5786	5571	3429	2893	1714	1929
34/7-21A	NOR	92094-116A	2964.0	2973.0	CUT	Clyst	21205	11265	10271	6295	6958	4307	3313	1988	2651
34/7-21A	NOR	92094-189	3035.5	3035.5	Oil		8075	5963	4099	3602	2981	1988	1491	870	1118
34/7-21A	NOR	92094-125A	3114.0	3123.0	CUT	Clyst	16000	22667	4167	7667	3667	4667	1667	2333	1600

SATURATE GC/MS - PEAK HEIGHT DATA

Table 18

Well Name	Nation	Sample Name	Upper Depth	Lower Depth	Sample Type	Lith	191 IONS				217 IONS				
							M2	I	N	A	J	Q	R	S	T
34/7-21	NOR	92094-35A	2400.0	2410.0	CUT	Clyst	1053	3684	789	14316	8648	4349	7427	5668	7524
34/7-21	NOR	92094-163	DST 1	DST 1	Oil		502	602	502	5878	3612	2692	4554	3859	3545
34/7-21	NOR	92094-164	2498.5	2498.5	Oil		602	723	602	6282	4092	3112	5014	4035	3631
34/7-21	NOR	92094-134	2518.7	2518.7	CCP	Sst	1517	1283	1167	15833	7976	6071	9881	8155	7381
34/7-21	NOR	92094-138	2537.45	2537.45	CCP	Sst	3877	3877	1852	37191	20334	13110	20468	17926	17926
34/7-21	NOR	92094-140	2541.2	2541.2	CCP	Sst	1235	1605	1111	19270	10365	7445	10219	8175	8175
34/7-21	NOR	92094-147	2558.0	2558.0	CCP	Clyst	3037	3313	359	15486	22639	2083	7153	2847	19097
34/7-21	NOR	92094-152	2566.8	2566.8	CCP	Sst	1071	1429	893	15472	11069	6164	9119	7296	8805
34/7-21	NOR	92094-153	2567.3	2567.3	CCP	Sst	938	1500	750	20074	11556	6519	9630	7111	8741
34/7-21	NOR	92094-155	2570.6	2570.6	CCP	Clyst	2545	2727	727	13248	19745	7389	11465	7834	16497
34/7-21	NOR	92094-159	2584.5	2584.5	CCP	Clyst	819	1843		7609	5712	656	2528	749	5385
34/7-21	NOR	92094-44A	2594.0	2603.0	CUT	Clyst	1767	6184	2473	14847	11963	4172	8221	5460	13620
34/7-21	NOR	92094-50A	2648.0	2657.0	CUT	Clyst	Sample too weak for analysis								
34/7-21	NOR	92094-55A	2693.0	2702.0	CUT	Clyst	Sample too weak for analysis								
34/7-21	NOR	92094-65A	2962.0	2971.0	CUT	Clyst	335	13137	1118	2633	2967	900	2500	1267	5367
34/7-21A	NOR	92094-166	2849.6	2849.6	CCP	Sst	596	728	662	20123	12554	10708	16985	13385	13662
34/7-21A	NOR	92094-169	2857.3	2857.3	CCP	Lst	1736	2083	1042	23269	14231	9808	15000	11731	10577
34/7-21A	NOR	92094-188	2873.5	2873.5	Oil		338	405	338	3995	2337	1413	2568	2351	2582
34/7-21A	NOR	92094-170	2874.35	2874.35	CCP	Sst	637	1036	510	15854	8293	5305	7683	6220	6159
34/7-21A	NOR	92094-174	2880.6	2880.6	CCP	Sst	1268	1373	845	24248	29912	25841	10265	8850	9381
34/7-21A	NOR	92094-175	2882.8	2882.8	CCP	Clyst/Sh	4490	2245	816	9288	61858	3344	13746	1858	46811
34/7-21A	NOR	92094-177	2893.5	2893.5	CCP	slty Sst	855	1197	821	16933	10600	6267	8667	7333	7800
34/7-21A	NOR	92094-181	2904.8	2904.8	CCP	slty Sst	2295	2951	1311	24721	15622	8069	10644	9185	11073
34/7-21A	NOR	92094-182	2905.7	2905.7	CCP	Clyst	2426	2206	176	17288	27712	2542	6780	3051	22542
34/7-21A	NOR	92094-186	2947.5	2947.5	CCP	Clyst	3000	3000	257	25126	35090	3682	9314	4224	28159
34/7-21A	NOR	92094-116A	2964.0	2973.0	CUT	Clyst	1657	1988	1060	19180	10820	8852	15410	11803	11639
34/7-21A	NOR	92094-189	3035.5	3035.5	Oil		870	621	596	5500	3682	2455	3545	3250	4318
34/7-21A	NOR	92094-125A	3114.0	3123.0	CUT	Clyst	2500	6667	533	16211	19876	2857	7453	3975	18261

SATURATE GC/MS - PEAK HEIGHT DATA

Table 18

Well Name	Nation	Sample Name	Upper Depth	Lower Depth	Sample Type	Lith	218 IONS		
							B	D	F
34/7-21	NOR	92094-35A	2400.0	2410.0	CUT	Clyst	7231	5603	6906
34/7-21	NOR	92094-163	DST 1	DST 1	Oil		4452	3226	4516
34/7-21	NOR	92094-164	2498.5	2498.5	Oil		5145	3542	4849
34/7-21	NOR	92094-134	2518.7	2518.7	CCP	Sst	10211	6506	9217
34/7-21	NOR	92094-138	2537.45	2537.45	CCP	Sst	23385	16398	20497
34/7-21	NOR	92094-140	2541.2	2541.2	CCP	Sst	12620	8000	10254
34/7-21	NOR	92094-147	2558.0	2558.0	CCP	Clyst	3413	3293	3234
34/7-21	NOR	92094-152	2566.8	2566.8	CCP	Sst	10388	6537	8597
34/7-21	NOR	92094-153	2567.3	2567.3	CCP	Sst	11980	7178	8020
34/7-21	NOR	92094-155	2570.6	2570.6	CCP	Clyst	11847	8217	9745
34/7-21	NOR	92094-159	2584.5	2584.5	CCP	Clyst	904	822	712
34/7-21	NOR	92094-44A	2594.0	2603.0	CUT	Clyst	7080	5036	6715
34/7-21	NOR	92094-50A	2648.0	2657.0	CUT	Clyst	Sample too weak for analysis		
34/7-21	NOR	92094-55A	2693.0	2702.0	CUT	Clyst	Sample too weak for analysis		
34/7-21	NOR	92094-65A	2962.0	2971.0	CUT	Clyst	894	553	1433
34/7-21A	NOR	92094-166	2849.6	2849.6	CCP	Sst	13880	10599	15394
34/7-21A	NOR	92094-169	2857.3	2857.3	CCP	Lst	16703	10403	13773
34/7-21A	NOR	92094-188	2873.5	2873.5	Oil		2663	1988	2831
34/7-21A	NOR	92094-170	2874.35	2874.35	CCP	Sst	9347	5811	6947
34/7-21A	NOR	92094-174	2880.6	2880.6	CCP	Sst	13544	8608	10127
34/7-21A	NOR	92094-175	2882.8	2882.8	CCP	Clyst/Sh	2373	2203	1864
34/7-21A	NOR	92094-177	2893.5	2893.5	CCP	slty Sst	10767	7546	8604
34/7-21A	NOR	92094-181	2904.8	2904.8	CCP	slty Sst	21056	13043	16863
34/7-21A	NOR	92094-182	2905.7	2905.7	CCP	Clyst	4326	4255	3617
34/7-21A	NOR	92094-186	2947.5	2947.5	CCP	Clyst	5907	5395	5116
34/7-21A	NOR	92094-116A	2964.0	2973.0	CUT	Clyst	12036	8783	12633
34/7-21A	NOR	92094-189	3035.5	3035.5	Oil		3477	2483	3891
34/7-21A	NOR	92094-125A	3114.0	3123.0	CUT	Clyst	4311	3503	4365

Well Name	Nation	Sample Name	Upper Depth	Lower Depth	Sample Type	Lith	B A	B A+B	C E	C C+E	Z E	Z Z+E	J1*(100) J1+J2	Q*(100) Q+T	R+S R+S+Q+T
34/7-21	NOR	92094-35A	2400.0	2410.0	CUT	Clyst									
34/7-21	NOR	92094-163	DST 1	DST 1	Oil		0.73	0.42	0.44	0.31	0.27	0.21	61.02	43.17	0.57
34/7-21	NOR	92094-164	2498.5	2498.5	Oil		0.86	0.46	0.46	0.31	0.23	0.19	60.63	46.15	0.57
34/7-21	NOR	92094-134	2518.7	2518.7	CCP	Sst	0.66	0.40	0.45	0.31	0.27	0.21	59.83	45.13	0.57
34/7-21	NOR	92094-138	2537.45	2537.45	CCP	Sst	0.76	0.43	0.43	0.30	0.27	0.21	60.76	42.24	0.55
34/7-21	NOR	92094-140	2541.2	2541.2	CCP	Sst	0.87	0.47	0.44	0.30	0.26	0.21	58.62	47.66	0.54
34/7-21	NOR	92094-147	2558.0	2558.0	CCP	Clyst	2.45	0.71	0.25	0.20	0.01	0.01	38.36	9.84	0.32
34/7-21	NOR	92094-152	2566.8	2566.8	CCP	Sst	0.87	0.46	0.47	0.32	0.27	0.21	57.81	41.18	0.52
34/7-21	NOR	92094-153	2567.3	2567.3	CCP	Sst	0.92	0.48	0.41	0.29	0.24	0.20	59.32	42.72	0.52
34/7-21	NOR	92094-155	2570.6	2570.6	CCP	Clyst	1.20	0.55	0.46	0.31	0.22	0.18	51.33	30.93	0.45
34/7-21	NOR	92094-159	2584.5	2584.5	CCP	Clyst	9.29	0.90	0.45	0.31	0.00	0.00	41.76	10.85	0.35
34/7-21	NOR	92094-44A	2594.0	2603.0	CUT	Clyst	2.45	0.71	0.61	0.38	0.08	0.07	40.54	23.45	0.43
34/7-21	NOR	92094-50A	2648.0	2657.0	CUT	Clyst	Sample too weak for analysis								
34/7-21	NOR	92094-55A	2693.0	2702.0	CUT	Clyst	Sample too weak for analysis								
34/7-21	NOR	92094-65A	2962.0	2971.0	CUT	Clyst	1.60	0.62	0.64	0.39	0.02	0.02	47.83	14.36	0.38
34/7-21A	NOR	92094-166	2849.6	2849.6	CCP	Sst	0.84	0.46	0.44	0.31	0.23	0.19	60.34	43.94	0.55
34/7-21A	NOR	92094-169	2857.3	2857.3	CCP	Lst	0.86	0.46	0.49	0.33	0.23	0.19	59.32	48.11	0.57
34/7-21A	NOR	92094-188	2873.5	2873.5	Oil		0.72	0.42	0.48	0.32	0.28	0.22	61.29	35.37	0.55
34/7-21A	NOR	92094-170	2874.35	2874.35	CCP	Sst	0.84	0.46	0.44	0.31	0.25	0.20	58.41	46.28	0.55
34/7-21A	NOR	92094-174	2880.6	2880.6	CCP	Sst	0.79	0.44	0.48	0.32	0.28	0.22	57.72	73.37	0.35
34/7-21A	NOR	92094-175	2882.8	2882.8	CCP	Clyst/Sh	1.64	0.62	0.53	0.35	0.03	0.03	40.51	6.67	0.24
34/7-21A	NOR	92094-177	2893.5	2893.5	CCP	slty Sst	0.85	0.46	0.46	0.31	0.28	0.22	59.32	44.55	0.53
34/7-21A	NOR	92094-181	2904.8	2904.8	CCP	slty Sst	0.85	0.46	0.46	0.31	0.28	0.22	36.14	42.15	0.51
34/7-21A	NOR	92094-182	2905.7	2905.7	CCP	Clyst	2.55	0.72	0.26	0.21	0.02	0.02	38.16	10.14	0.28
34/7-21A	NOR	92094-186	2947.5	2947.5	CCP	Clyst	2.36	0.70	0.25	0.20	0.02	0.02	58.14	11.56	0.30
34/7-21A	NOR	92094-116A	2964.0	2973.0	CUT	Clyst	0.81	0.45	0.42	0.30	0.20	0.17	62.00	43.20	0.57
34/7-21A	NOR	92094-189	3035.5	3035.5	Oil		0.76	0.43	0.42	0.30	0.21	0.17	53.23	36.24	0.50
34/7-21A	NOR	92094-125A	3114.0	3123.0	CUT	Clyst	3.67	0.79	0.37	0.27	0.02	0.02	35.21	13.53	0.35

Well Name	Nation	Sample Name	Upper Depth	Lower Depth	Sample Type	Lith	178 IONS	192 IONS				184 IONS	198 IONS		
							P	3MP	2MP	9MP	1MP	DBT	4MDBT	3+2MDBT	1MDBT
34/7-21	NOR	92094-163	DST 1	DST 1	Oil		49701	23899	25912	41761	31572	17634	24593	10667	9704
34/7-21	NOR	92094-35A	2400.0	2410.0	CUT	Clyst	6385	4139	5041	6803	5779	1095	2886	1228	1105
34/7-21	NOR	92094-164	2498.5	2498.5	Oil		23194	8658	9463	16711	11980	9055	13607	5984	5820
34/7-21	NOR	92094-134	2518.7	2518.7	CCP	Sst	11517	7147	8118	14735	11735	3290	7468	3210	2764
34/7-21	NOR	92094-138	2537.45	2537.45	CCP	Sst	63822	31837	37959	68163	52653	25050	45714	16871	13878
34/7-21	NOR	92094-140	2541.2	2541.2	CCP	Sst	52019	25292	26942	45911	35739	18000	33953	12770	11757
34/7-21	NOR	92094-147	2558.0	2558.0	CCP	Clyst	2312	522	578	1509	978	1946	1066	541	2689
34/7-21	NOR	92094-152	2566.8	2566.8	CCP	Sst	22759	16538	16538	32019	22115	10123	17914	8040	8957
34/7-21	NOR	92094-153	2567.3	2567.3	CCP	Sst	20245	12204	13796	29361	21224	8124	16711	7550	7953
34/7-21	NOR	92094-155	2570.6	2570.6	CCP	Clyst	69103	29577	30000	70563	50282	28325	36632	15574	17658
34/7-21	NOR	92094-159	2584.5	2584.5	CCP	Clyst	19717	3811	3860	16319	7085	5576	3082	1644	6370
34/7-21	NOR	92094-44A	2594.0	2603.0	CUT	Clyst	11893	4039	4144	8708	6190	2556	2441	1247	2739
34/7-21	NOR	92094-50A	2648.0	2657.0	CUT	Clyst	3214	830	817	1400	1070	116	121	70	119
34/7-21	NOR	92094-55A	2693.0	2702.0	CUT	Clyst	14084	5833	9583	17396	8750	837	1396	583	713
34/7-21	NOR	92094-65A	2962.0	2971.0	CUT	Clyst	17239	6642	6642	12153	9197	699	780	341	512
34/7-21A	NOR	92094-166	2849.6	2849.6	CCP	Sst	17417	6735	7665	19394	12658	8919	19277	5342	7432
34/7-21A	NOR	92094-169	2857.3	2857.3	CCP	Lst	36000	13675	16689	38709	27119	14613	24439	9366	10829
34/7-21A	NOR	92094-188	2873.5	2873.5	Oil		57639	24908	27839	48645	35458	20629	24851	12687	10075
34/7-21A	NOR	92094-170	2874.35	2874.35	CCP	Sst	25291	15099	14305	33079	21159	10645	26395	7745	9641
34/7-21A	NOR	92094-174	2880.6	2880.6	CCP	Sst	35267	21774	22645	48484	32806	14258	38203	12124	13725
34/7-21A	NOR	92094-175	2882.8	2882.8	CCP	Clyst/Sh	54739	26946	27665	60000	42754	21548	45823	14543	16463
34/7-21A	NOR	92094-177	2893.5	2893.5	CCP	sity Sst	33823	20723	21687	40000	28675	14258	35488	12963	13813
34/7-21A	NOR	92094-181	2904.8	2904.8	CCP	sity Sst	27656	15396	16038	35604	25233	10245	28687	9448	10307
34/7-21A	NOR	92094-182	2905.7	2905.7	CCP	Clyst	21694	8013	7542	22492	14141	19403	17138	6683	36000
34/7-21A	NOR	92094-186	2947.5	2947.5	CCP	Clyst	9083	3049	2988	10030	5945	7904	5969	2585	20431
34/7-21A	NOR	92094-116A	2964.0	2973.0	CUT	Clyst	6979	2814	2554	8547	5160	7477	6823	2516	16016
34/7-21A	NOR	92094-189	3035.5	3035.5	Oil		13910	8861	7595	20506	11646	5896	10604	4631	7450
34/7-21A	NOR	92094-125A	3114.0	3123.0	CUT	Clyst	15137	6036	6395	11856	7976	5191	5433	1811	9027

Table 19

Well Name	Nation	Sample Name	Upper Depth	Lower Depth	Sample Type	Lith	253 IONS			231 IONS						
							H	P	R	A	B	C	D	E	F	G
34/7-21	NOR	92094-163	DST 1	DST 1	Oil		2316	921	275	4259	4630	2130	4259	2852	2852	1889
34/7-21	NOR	92094-35A	2400.0	2410.0	CUT	Clyst	213	489	170	731	963	309	930	392	449	266
34/7-21	NOR	92094-164	2498.5	2498.5	Oil		1379	759	193	2427	2853	1613	4293	2267	1893	1520
34/7-21	NOR	92094-134	2518.7	2518.7	CCP	Sst	277	321	145	1573	1847	763	2443	1160	1069	687
34/7-21	NOR	92094-138	2537.4	2537.4	CCP	Sst	1692	1723	415	9150	9804	3856	10000	4902	4837	3333
34/7-21	NOR	92094-140	2541.2	2541.2	CCP	Sst	923	1089	332	5167	6250	2042	5625	3042	2792	1958
34/7-21	NOR	92094-147	2558.0	2558.0	CCP	Clyst	310	1550	542	175	140	327	524	209	284	131
34/7-21	NOR	92094-152	2566.8	2566.8	CCP	Sst	2507	2480	960	6509	7636	4182	11782	6182	5455	4145
34/7-21	NOR	92094-153	2567.3	2567.3	CCP	Sst	2625	2750	1063	6567	7910	4179	12052	6455	5224	4142
34/7-21	NOR	92094-155	2570.6	2570.6	CCP	Clyst	533	833	300	6042	7068	1733	4401	1984	2098	1277
34/7-21	NOR	92094-159	2584.5	2584.5	CCP	Clyst	266	1170	514	1304	889	2815	4770	2815	2267	2281
34/7-21	NOR	92094-44A	2594.0	2603.0	CUT	Clyst	440	1630	990	413	381	331	623	482	334	318
34/7-21	NOR	92094-50A	2648.0	2657.0	CUT	Clyst	95	189	108	85	54	62	68	65	51	63
34/7-21	NOR	92094-55A	2693.0	2702.0	CUT	Clyst	69	350	83							
34/7-21	NOR	92094-65A	2962.0	2971.0	CUT	Clyst	793	1037	285	1291	525	823	809	1220	305	752
34/7-21A	NOR	92094-166	2849.6	2849.6	CCP	Sst	1250	1308	308	7545	8970	6707	13749	7629	6287	5868
34/7-21A	NOR	92094-169	2857.3	2857.3	CCP	Lst				6624	6433	5510	10541	6242	5478	4108
34/7-21A	NOR	92094-188	2873.5	2873.5	Oil		2082	1010	224	4379	4295	1980	5302	3087	2617	2047
34/7-21A	NOR	92094-170	2874.3	2874.3	CCP	Sst	2344	1558	356	5976	7133	2361	7759	4482	3422	2361
34/7-21A	NOR	92094-174	2880.6	2880.6	CCP	Sst	3029	2214	777	11975	12327	4931	14264	6956	6164	4579
34/7-21A	NOR	92094-175	2882.8	2882.8	CCP	Clyst/	410	2809	1167	4442	3963	595	1452	552	610	377
34/7-21A	NOR	92094-177	2893.5	2893.5	CCP	sity S	1206	617	368	6524	7357	1738	4881	2667	2238	2048
34/7-21A	NOR	92094-181	2904.8	2904.8	CCP	sity S	1180	547	236	5861	7308	1851	6407	2895	2753	2278
34/7-21A	NOR	92094-182	2905.7	2905.7	CCP	Clyst	10692	44340	11635	5728	3786	8252	16019	4466	7767	3883
34/7-21A	NOR	92094-186	2947.5	2947.5	CCP	Clyst	6217	22796	16283	1986	1469	3310	6683	2897	3393	1490
34/7-21A	NOR	92094-116A	2964.0	2973.0	CUT	Clyst	3877	9138	2769	1818	1688	2403	5211	1477	2143	1039
34/7-21A	NOR	92094-189	3035.5	3035.5	Oil		6085	5125	801	5519	6259	3963	11778	6852	5926	4519
34/7-21A	NOR	92094-125A	3114.0	3123.0	CUT	Clyst	2909	9182	3636	1374	736	1791	3890	1362	1816	1313

AROMATIC GC/MS - PEAK HEIGHT DATA

Table 19

Well Name	Nation	Sample Name	Upper Depth	Lower Depth	Sample Type	Lith	A A+G	B B+G	A A+D
34/7-21	NOR	92094-163	DST 1	DST 1	Oil		0.69	0.71	0.50
34/7-21	NOR	92094-35A	2400.0	2410.0	CUT	Clyst	0.73	0.78	0.44
34/7-21	NOR	92094-164	2498.5	2498.5	Oil		0.61	0.65	0.36
34/7-21	NOR	92094-134	2518.7	2518.7	CCP	Sst	0.70	0.73	0.39
34/7-21	NOR	92094-138	2537.4	2537.4	CCP	Sst	0.73	0.75	0.48
34/7-21	NOR	92094-140	2541.2	2541.2	CCP	Sst	0.73	0.76	0.48
34/7-21	NOR	92094-147	2558.0	2558.0	CCP	Clyst	0.57	0.52	0.25
34/7-21	NOR	92094-152	2566.8	2566.8	CCP	Sst	0.61	0.65	0.36
34/7-21	NOR	92094-153	2567.3	2567.3	CCP	Sst	0.61	0.66	0.35
34/7-21	NOR	92094-155	2570.6	2570.6	CCP	Clyst	0.83	0.85	0.58
34/7-21	NOR	92094-159	2584.5	2584.5	CCP	Clyst	0.36	0.28	0.21
34/7-21	NOR	92094-44A	2594.0	2603.0	CUT	Clyst	0.57	0.55	0.40
34/7-21	NOR	92094-50A	2648.0	2657.0	CUT	Clyst	0.57	0.46	0.56
34/7-21	NOR	92094-55A	2693.0	2702.0	CUT	Clyst			
34/7-21	NOR	92094-65A	2962.0	2971.0	CUT	Clyst	0.63	0.41	0.61
34/7-21A	NOR	92094-166	2849.6	2849.6	CCP	Sst	0.56	0.60	0.35
34/7-21A	NOR	92094-169	2857.3	2857.3	CCP	Lst	0.62	0.61	0.39
34/7-21A	NOR	92094-188	2873.5	2873.5	Oil		0.68	0.68	0.45
34/7-21A	NOR	92094-170	2874.3	2874.3	CCP	Sst	0.72	0.75	0.44
34/7-21A	NOR	92094-174	2880.6	2880.6	CCP	Sst	0.72	0.73	0.46
34/7-21A	NOR	92094-175	2882.8	2882.8	CCP	Clyst/	0.92	0.91	0.75
34/7-21A	NOR	92094-177	2893.5	2893.5	CCP	slty S	0.76	0.78	0.57
34/7-21A	NOR	92094-181	2904.8	2904.8	CCP	slty S	0.72	0.76	0.48
34/7-21A	NOR	92094-182	2905.7	2905.7	CCP	Clyst	0.60	0.49	0.26
34/7-21A	NOR	92094-186	2947.5	2947.5	CCP	Clyst	0.57	0.50	0.23
34/7-21A	NOR	92094-116A	2964.0	2973.0	CUT	Clyst	0.64	0.62	0.26
34/7-21A	NOR	92094-189	3035.5	3035.5	Oil		0.55	0.58	0.32
34/7-21A	NOR	92094-125A	3114.0	3123.0	CUT	Clyst	0.51	0.36	0.26