

**PETROLEUM GEOCHEMISTRY
OF THE 34/7-3 WELL**

**Comprising Analysis of Core Fragments
From the Interval 2396.0m to 2637.0m,
Snorre Field, Norwegian North Sea**

Report No. 7236/Ic

Project No. Ic/21147

**Prepared by:
C Darlington
M Wadsworth**

**Of:
Simon Petroleum Technology Limited
Llandudno, Gwynedd LL30 1SA, United Kingdom**

**For:
Saga Petroleum a.s.
Kjorbovn. 16, PO Box 490, 1301 Sandvika, Norway**

APRIL 1993



GEOCHEMISTRY OF THE 34/7-3 WELL

Contents**Chapters**

	PAGE
SUMMARY	1
INTRODUCTION	2

Tables

1(A-B)	Solvent extraction of fractionation data
2(A-C)	Alkane gas chromatography data
3	Aromatic gas chromatography biomarker ratios

Figures

1	Total extract against depth
2	Percentage of saturate hydrocarbons against depth
3	Percentage of aromatic hydrocarbons against depth
4	Saturates:aromatics ratio against depth
5	Percentage of polars against depth
6	Normalised abundances of $n\text{-C}_{17}$, $n\text{-C}_{27}$ and $n\text{-C}_{32}$
7(1-17)	Saturate fraction gas chromatograms
8(1-17)	Aromatic fraction gas chromatograms
9(1-17)	Saturate fraction gas chromatography - mass spectrometry data
10(1-17)	Aromatic fraction gas chromatography - mass spectrometry data

GEOCHEMISTRY OF THE 34/7-3 WELL

SUMMARY

This data report incorporates the results of geochemical analyses of core fragments from the interval 2396.0m to 2637.0m of the 34/7-3 well, Norwegian North Sea. The work was carried out under the Snorre TLP Template Predrilling Programme at the request of Saga Petroleum a.s.

GEOCHEMISTRY OF THE 34/7-3 WELL

INTRODUCTION

Petroleum geochemical analyses have been carried out on a suite of core chips from the interval 2396.0m to 2637.0m of the 34/7-3 well. This is the sixth well of a series to be analysed under the Snorre TLP Template Predrilling Programme Contract No. KO-S-90-195.

A total of 53 core chips was received at Simon Petroleum Technology's North Wales laboratories on 28 July 1992. Detailed instructions for each analytical method were received from Mr Idar Horstad, our principal contact with Saga throughout the course of this study. As the study progressed data were dispatched to Saga as follows:

28 August 1992, Fax: Tables and figures of extraction and fractionation data.

The analytical programme has followed that outlined in Contract No. KO-S-90-195 and the following number of analyses have been carried out:

Analysis	No. of samples
Semi-quantitative solvent extraction	53
Fractionation of saturates, aromatics and polar compounds	53
Saturate fraction gas chromatography	17
Aromatic fraction gas chromatography	17
Saturate fraction gas chromatography - mass spectrometry	17
Aromatic fraction gas chromatography - mass spectrometry	17

The analytical methods employed are generally as proposed in the joint NPD/Norwegian companies 'Organic geochemistry standard analytic procedure requirement and reporting guide' June 1988. Certain modifications were incorporated to follow the specific methods and presentation requested by Idar Horstad as issued on 1 March 1991 entitled 'Preliminary analytical procedures, pre-production wells, Snorre Field'. These procedures have been followed and include any minor modifications found to be useful during the course of the study. Some difficulty was found in limiting light ends loss of C₁₁ compounds for aromatic fraction gas chromatography but even after allowing the separated fraction to dry naturally in a fume hood for several days the same loss was seen on gas chromatography.

SOLVENT EXTRACTION AND FRACTIONATION DATA

DEPTH (metres)	SATURATED HYDROCARBONS		AROMATIC HYDROCARBONS		POLARS		SATURATED:AROMATIC HYDROCARBONS RATIO
	mg/g rock	% of extract	mg/g rock	% of extract	mg/g rock	% of extract	
2396.0	4.70	54.8	1.17	13.7	2.70	31.5	4.00
2402.0	7.59	57.3	1.90	14.3	3.76	28.4	4.00
2408.0	4.46	57.3	1.05	13.4	2.28	29.3	4.26
2412.0	5.19	55.1	1.30	13.8	2.93	31.1	4.00
2413.0	2.14	52.5	0.44	10.8	1.49	36.7	4.88
2414.0	1.38	48.0	0.26	9.1	1.23	42.9	5.25
2414.5	19.54	67.2	5.19	17.9	4.37	15.0	3.76
2416.3	12.89	64.4	3.63	18.2	3.48	17.4	3.55
2418.5	12.02	65.5	3.19	17.4	3.14	17.1	3.76
2420.0	9.54	66.0	2.24	15.5	2.67	18.5	4.26
2424.5	11.81	65.8	2.77	15.4	3.38	18.8	4.26
2426.0	6.46	60.6	1.61	15.2	2.58	24.2	4.00
2428.0	8.18	65.9	1.92	15.5	2.31	18.6	4.26
2433.0	8.26	65.0	1.94	15.3	2.50	19.7	4.26
2441.0	13.68	64.4	3.64	17.1	3.93	18.5	3.76
2443.0	9.50	63.5	2.37	15.9	3.08	20.6	4.00
2445.0	10.97	63.0	2.74	15.8	3.69	21.2	4.00
2447.0	9.37	61.2	2.64	17.3	3.29	21.5	3.55
2448.5	16.23	65.2	3.56	14.3	5.10	20.5	4.56
2456.0	8.28	63.7	2.20	16.9	2.52	19.4	3.76
2457.0	10.39	60.6	0.06	9.1	0.20	30.3	6.69
2457.3	12.66	65.3	3.37	17.3	3.38	17.4	3.76
2461.1	7.08	63.5	1.77	15.9	2.30	20.6	4.00
2463.5	10.90	65.4	3.07	18.5	2.68	16.1	3.55
2466.5	10.22	64.3	2.88	18.1	2.80	17.6	3.55
2469.5	9.06	63.4	2.41	16.8	2.83	19.8	3.76
2471.8	11.05	62.4	2.42	13.7	4.23	23.9	4.56
2473.2	6.53	61.9	1.95	18.5	2.07	19.6	3.35
2474.8	14.00	61.9	3.72	16.5	4.88	21.6	3.76
2477.0	10.43	65.4	2.45	15.3	3.08	19.3	4.26
2478.2	9.05	60.1	2.70	18.0	3.30	21.9	3.35
2479.2	6.19	63.2	1.75	17.8	1.86	19.0	3.55
2480.5	13.55	66.8	3.60	17.7	3.15	15.5	3.76
2482.5	10.65	64.1	2.83	17.1	3.12	18.8	3.76
2500.5	4.15	62.4	0.91	13.7	1.59	23.9	4.56
2501.4	6.25	61.3	1.76	17.3	2.18	21.4	3.55
2503.3	2.63	61.3	0.58	13.4	1.09	25.3	4.56
2504.5	4.58	59.8	1.37	17.9	1.71	22.3	3.35
2506.7	10.49	64.0	2.96	18.0	2.95	18.0	3.55
2509.5	7.99	61.9	1.75	13.6	3.16	24.5	4.56
2511.5	12.64	63.8	2.96	15.0	4.20	21.2	4.26
2513.3	0.20	47.2	0.05	11.8	0.17	41.0	4.00
2514.0	6.86	62.3	1.82	16.6	2.32	21.1	3.76
2520.5	4.92	57.2	1.39	16.1	2.30	26.7	3.55
2549.5	4.60	52.8	1.37	15.8	2.73	31.4	3.35
2606.2	7.59	61.9	2.40	19.6	2.27	18.5	3.17
2607.0	6.04	59.2	1.51	14.8	2.65	26.0	4.00
2620.0	1.74	57.2	0.44	14.3	0.87	28.5	4.00
2620.7	4.21	60.2	1.12	16.0	1.67	23.8	3.76
2622.0	4.16	59.4	1.11	15.8	1.74	24.8	3.76
2628.0	5.27	61.3	1.32	15.3	2.01	23.4	4.00
2633.0	0.17	56.0	0.06	20.7	0.07	23.3	2.70
2637.0	0.13	36.0	0.10	28.3	0.13	35.7	1.27

SOLVENT EXTRACTION AND FRACTIONATION DATA

TABLE: 1

COMPANY: SAGA

WELL: 34/7-3

LOCATION: OFFSHORE NORWAY

SAMPLE DATA						
SAMPLE DEPTH (Mtrs)	2412.0	2414.5	2424.5	2426.0	2428.0	2447.0
SAMPLE TYPE	Core	Core	Core	Core	Core	Core

COMPONENTS	QUANTIFIED NORMAL AND ISOPRENOID ALKANE ABUNDANCES (%)					
	2412.0	2414.5	2424.5	2426.0	2428.0	2447.0
n-C10						
n-C11						
n-C12						
n-C13						
n-C14	.23	.35	.04	.02	.03	.03
n-C15	1.24	1.81	.34	.30	.65	.53
n-C16	2.82	3.21	1.53	1.28	2.60	1.92
n-C17	4.12	4.05	3.33	2.64	4.32	3.72
n-C18	4.57	4.05	4.40	3.68	4.78	4.50
n-C19	5.44	4.80	5.77	5.22	5.94	5.92
n-C20	4.72	4.03	4.97	4.80	5.00	4.90
n-C21	4.28	3.64	4.40	4.42	4.14	4.80
n-C22	3.66	3.19	4.04	3.88	4.15	4.55
n-C23	3.21	2.66	3.47	3.61	3.47	4.14
n-C24	2.89	2.67	3.49	3.58	3.73	4.20
n-C25	2.82	2.67	3.32	3.42	3.21	3.54
n-C26	2.03	1.93	2.36	2.62	2.41	2.68
n-C27	1.60	1.63	1.82	2.25	1.80	1.85
n-C28	1.67	1.45	2.04	2.06	1.81	1.81
n-C29	1.46	1.43	1.64	1.95	1.62	1.70
n-C30	1.12	1.26	1.27	1.57	1.27	1.36
n-C31	.91	1.08	1.11	1.40	1.12	1.05
n-C32	.85	1.02	.99	1.29	1.04	.91
n-C33	.94	1.06	1.21	1.36	1.14	1.14
n-C34	.98	1.00	1.26	1.40	1.13	1.23
n-C35	.73	.75	1.10	1.13	.78	1.07
n-C36	.45	.39	.48	.59	.42	.54
i-C15 (Farnesane)	.03	.05	.01			.00
i-C16	.36	.50	.07	.05	.12	.11
i-C18 (Norpristane)	1.74	1.76	1.16	.89	1.73	1.40
i-C19 (Pristane)	3.78	3.41	3.13	2.29	3.89	3.41
i-C20 (Phytane)	3.04	2.60	2.87	2.31	3.00	2.93

GENERAL DATA						
Total Abundance(%)	62	58	62	60	65	66
TOC (% of Rock)						
Extract (ppm)	9420	29100	17950	10650	12400	15300
Hydrocarbons (ppm)	6490	24735	14575	8075	10095	12010
Hydrocarbon(mg/gTOC)						
Alks(% Hydrocarbons)	80	79	81	80	81	78
Rock-Eval HI						
Rock-Eval PI						

RATIOS						
CPI-1	1.03	1.06	1.02	1.05	1.01	1.00
CPI-2	1.04	1.07	1.02	1.06	1.01	1.01
CPI-3	.86	.96	.83	.96	.85	.82
Bias	1.52	1.43	1.25	1.03	1.37	1.24
i-C19 / n-C17	.92	.84	.94	.87	.90	.92
i-C20 / n-C18	.66	.64	.65	.63	.63	.65
i-C19 / i-C20	1.24	1.31	1.09	.99	1.30	1.17

LEGEND						
i - isoprenoid	n - normal	For definition of Ratios CPI-1,-2,-3 and Bias - see following page				

ALKANE GAS CHROMATOGRAPHY DATA

TABLE : 2A

COMPANY: SAGA

WELL: 34/7-3

LOCATION: OFFSHORE NORWAY

SAMPLE DATA						
SAMPLE DEPTH (Mtrs)	2457.3	2469.5	2473.2	2474.8	2480.5	2501.4
SAMPLE TYPE	Core	Core	Core	Core	Core	Core

COMPONENTS	QUANTIFIED NORMAL AND ISOPRENOID ALKANE ABUNDANCES (%)					
	n-C10					
n-C11						
n-C12						
n-C13	.00					
n-C14	.23	.06	.03	.07	.09	
n-C15	1.59	.70	.44	.76	.92	.39
n-C16	3.30	2.36	1.53	2.18	2.50	1.75
n-C17	4.35	4.23	2.96	3.50	3.78	3.62
n-C18	4.48	5.12	3.67	3.78	3.88	4.50
n-C19	5.47	6.25	5.08	4.77	4.90	6.02
n-C20	4.64	5.37	4.57	4.09	4.14	5.37
n-C21	4.19	4.89	4.24	3.74	3.77	5.00
n-C22	4.00	4.26	3.78	3.29	3.28	4.41
n-C23	3.07	3.81	3.44	2.96	3.00	3.93
n-C24	3.44	3.53	2.97	2.86	2.89	3.69
n-C25	3.13	3.97	3.36	2.74	2.77	4.26
n-C26	2.37	2.99	2.92	2.28	1.98	3.02
n-C27	1.81	2.25	2.15	1.81	1.42	2.43
n-C28	1.81	2.11	2.15	1.92	1.59	2.39
n-C29	1.65	1.95	1.89	1.88	1.50	2.27
n-C30	1.25	1.46	1.47	1.67	1.28	1.65
n-C31	1.07	1.18	1.21	1.36	1.02	1.42
n-C32	.97	1.02	1.13	1.16	.77	1.03
n-C33	1.07	1.21	1.22	1.18	.96	1.45
n-C34	1.28	1.45	1.26	1.00	.92	1.62
n-C35	1.02	1.12	1.01	.74	.62	1.30
n-C36	.57	.58	.54	.39	.31	.55
i-C15 (Farnesane)	.02	.01		.01	.01	
i-C16	.42	.15	.09	.19	.22	.08
i-C18 (Norpristane)	1.97	1.68	1.09	1.42	1.63	1.36
i-C19 (Pristane)	3.89	3.78	2.66	3.17	3.27	3.38
i-C20 (Phytane)	2.92	3.32	2.46	2.48	2.60	3.17

GENERAL DATA						
Total Abundance(%)	66	71	59	57	56	70
TOC (% of Rock)						
Extract (ppm)	19400	14300	10550	22600	20300	10200
Hydrocarbons (ppm)	16025	11470	8480	17720	17155	8015
Hydrocarbon(mg/gTOC)						
Alks(% Hydrocarbons)	79	79	77	79	79	78
Rock-Eval HI						
Rock-Eval PI						

RATIOS						
CPI-1	1.01	1.06	1.01	1.01	1.03	1.11
CPI-2	1.03	1.08	1.01	1.00	1.03	1.13
CPI-3	.86	.88	.85	.86	.79	.90
Bias	1.41	1.28	1.08	1.16	1.37	1.11
i-C19 / n-C17	.89	.89	.90	.91	.87	.93
i-C20 / n-C18	.65	.65	.67	.66	.67	.70
i-C19 / i-C20	1.33	1.14	1.08	1.28	1.26	1.07

LEGEND						
i - isoprenoid	n - normal	For definition of Ratios CPI-1,-2,-3 and Bias - see following page				

ALKANE GAS CHROMATOGRAPHY DATA

TABLE : 2B

SAMPLE DATA						
SAMPLE DEPTH (Mtrs)	2513.3	2514.0	2549.5	2606.2	2620.7	
SAMPLE TYPE	Core	Core	Core	Core	Core	

COMPONENTS	QUANTIFIED NORMAL AND ISOPRENOID ALKANE ABUNDANCES (%)					
n-C10						
n-C11						
n-C12						
n-C13		.00		.00		
n-C14		.06	.00	.01		
n-C15	.99	.81	.15	.28	.23	
n-C16	4.81	2.48	.72	1.43	.97	
n-C17	7.83	3.81	1.82	2.70	2.34	
n-C18	7.81	4.10	2.78	3.39	3.24	
n-C19	7.05	5.16	5.19	4.00	4.91	
n-C20	4.92	4.46	4.56	4.18	4.54	
n-C21	3.82	4.08	3.86	3.91	3.96	
n-C22	3.43	3.72	3.47	3.48	4.00	
n-C23	2.95	3.35	3.23	3.19	3.67	
n-C24	2.67	3.09	3.21	2.96	3.39	
n-C25	2.64	3.13	3.96	3.10	3.51	
n-C26	2.08	2.38	2.94	2.14	2.39	
n-C27	1.39	1.86	2.43	2.04	2.02	
n-C28	1.71	1.76	2.38	2.22	2.38	
n-C29	1.19	1.72	2.81	2.02	2.16	
n-C30	.87	1.33	1.92	1.49	1.67	
n-C31	.76	1.06	1.84	1.20	1.26	
n-C32	.58	1.07	1.45	1.22	.79	
n-C33	.68	1.19	1.87	1.30	1.15	
n-C34	.69	1.24	2.35	1.46	1.52	
n-C35	.58	1.01	1.84	1.19	1.03	
n-C36	.32	.48	.96	.57	.56	
i-C15 (Farnesane)		.01				
i-C16		.19	.03	.05	.05	
i-C18 (Norpristane)	2.24	1.44	.93	.99	.95	
i-C19 (Pristane)	5.87	3.36	2.83	3.11	2.65	
i-C20 (Phytane)	4.05	2.66	3.70	2.94	2.68	

GENERAL DATA						
Total Abundance(%)	72	61	63	57	58	
TOC (% of Rock)						
Extract (ppm)	420	11000	8700	12250	7000	
Hydrocarbons (ppm)	245	8680	5970	9985	5335	
Alks(% Hydrocarbons)	80	79	77	76	79	
Rock-Eval HI						
Rock-Eval PI						

RATIOS						
CPI-1	.98	1.04	1.13	1.05	1.05	
CPI-2	.98	1.05	1.16	1.07	1.07	
CPI-3	.73	.90	.91	.94	.85	
Bias	2.26	1.27	.80	1.01	.98	
i-C19 / n-C17	.75	.88	1.55	1.15	1.14	
i-C20 / n-C18	.52	.65	1.33	.87	.83	
i-C19 / i-C20	1.45	1.26	.76	1.06	.99	

LEGEND						
i - isoprenoid	n - normal	For definition of Ratios CPI-1,-2,-3 and Bias - see following page				

ALKANE GAS CHROMATOGRAPHY DATA

TABLE : 2C

Alkane gas chromatography data - definition of ratios

CPI 1 (Bray and Evans):

$$\frac{1}{2} \times \left[\frac{C_{25} + C_{27} + C_{29} + C_{31} + C_{33}}{C_{24} + C_{26} + C_{28} + C_{30} + C_{32}} + \frac{C_{25} + C_{27} + C_{29} + C_{31} + C_{33}}{C_{26} + C_{28} + C_{30} + C_{32} + C_{34}} \right]$$

CPI 2 (Radke and Statoil):

$$\frac{1}{2} \times \left[\frac{C_{25} + C_{27} + C_{29} + C_{31}}{C_{24} + C_{26} + C_{28} + C_{30}} + \frac{C_{25} + C_{27} + C_{29} + C_{31}}{C_{26} + C_{28} + C_{30} + C_{32}} \right]$$

CPI 3 (Statoil and Philippi):

$$\frac{2 \times C_{27}}{C_{26} + C_{28}}$$

Bias:

$$\frac{C_{16} + C_{17} + C_{18} + C_{19} + C_{20} + C_{21} + C_{22}}{C_{23} + C_{24} + C_{25} + C_{26} + C_{27} + C_{28} + C_{29} + C_{30} + C_{31} + C_{32} + C_{33}}$$

Gasoline ratios - definition of indices

Late mature index - Benzene/methyl cyclohexane

Aromaticity index - Toluene/*n*-heptane

Heptane index - *n*-Heptane/all C₇ compounds (%)

Iso-heptane index - Methyl hexanes (non-cyclic)/dimethyl cyclopentanes

Kerogen type index - Heptane index-4/*Iso*-heptane index

GENERAL DATA		AROMATIC GAS CHROMATOGRAPHY - BIOMARKER RATIOS									
SAMPLE DEPTH (metres)	SAMPLE TYPE	BIOMARKER RATIO No.									
		1	2	3	4	5	6	7			
2412.0	Core	0.72	0.78	*	*	*	*	*			
2415.5	Core	0.29	0.22	*	*	*	*	*			
2424.5	Core	0.67	0.65	*	*	*	*	*			
2426.0	Core	0.76	0.72	*	*	*	*	*			
2428.0	Core	0.19	0.00	*	*	*	*	*			
2447.0	Core	0.62	0.60	*	*	*	*	*			
2457.3	Core	0.63	0.60	*	*	*	*	*			
2469.5	Core	0.64	0.67	*	*	*	*	*			
2473.2	Core	0.64	0.64	*	*	*	*	*			
2474.8	Core	0.60	0.62	*	*	*	*	*			
2480.5	Core	0.66	0.71	*	*	*	*	*			
2501.4	Core	*	*	*	*	*	*	*			
2514.0	Core	0.68	0.75	*	*	*	*	*			
2513.3	Core	0.69	1.13	*	*	*	*	*			
2549.5	Core	*	*	*	*	*	*	*			
2606.2	Core	*	*	*	*	*	*	*			
2620.7	Core	0.69	0.61	*	*	*	*	*			

KEY TO GC BIOMARKER RATIOS

- 1: MPI-1 - 1.5(3- +2-methylphenanthrenes)/(phenanthrene + 9- +1-methylphenanthrenes)
- 2: MPR - 2-methylphenanthrene / 1-methylphenanthrene
- 3: MNR - 2-methylnaphthalene / 1-methylnaphthalene
- 4: ENR - 2-ethylnaphthalene / 1-ethylnaphthalene
- 5: BIPHENYL - Biphenyl / (1-ethylnaphthalene + 2 ethylnaphthalene)
- 6: DNR - (2,6-dimethylnaphthalene + 2,7-dimethylnaphthalene) / 1,5-dimethylnaphthalene
- 7: TNR - (1,3,7-trimethylnaphthalene + 2,3,6-trimethylnaphthalene) /
(1,3,5-trimethylnaphthalene + 1,3,6-trimethylnaphthalene + 1,4,6-trimethylnaphthalene)

NOTE: * - Peak resolution not good enough for calculation γ - Poor

AROMATIC GAS CHROMATOGRAPHY BIOMARKER RATIOS
TABLE: 3

GEOCHEMISTRY OF THE 34/7-3 WELL

Figure 7**SATURATE FRACTION GAS CHROMATOGRAMS**

Figure	Depth
7.1	2412.0m
7.2	2414.5m
7.3	2424.5m
7.4	2426.0m
7.5	2428.0m
7.6	2447.0m
7.7	2457.3m
7.8	2469.5m
7.9	2473.2m
7.10	2474.8m
7.11	2480.5m
7.12	2501.4m
7.13	2513.3m
7.14	2514.0m
7.15	2549.5m
7.16	2606.2m
7.17	2620.7m

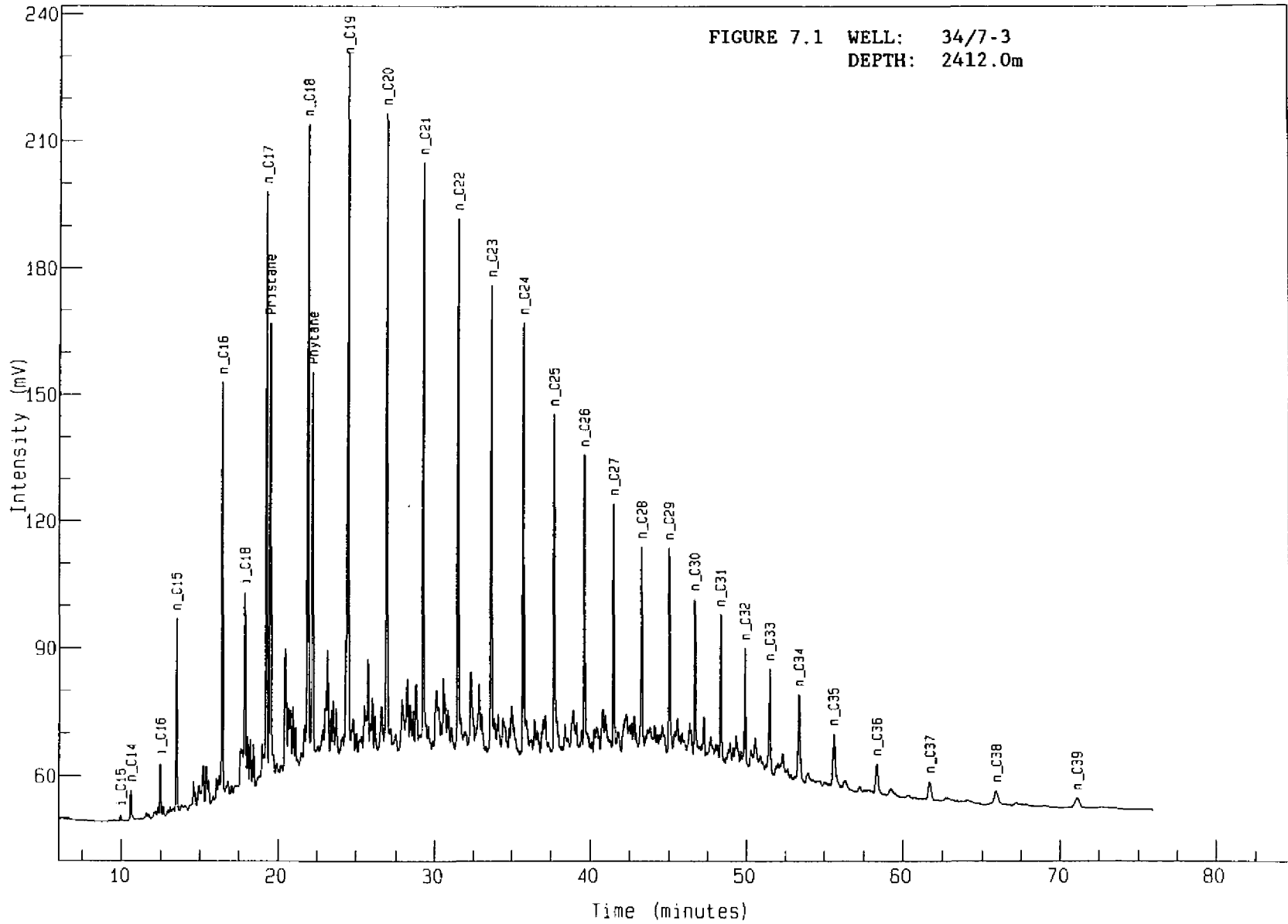
SIMON LABORATORIES

Analysis Name : 5 S92H0011R0, 1, 1.

92H 11 SAGA 34/7-3

Amount : 1.000

C15+ SATURATE GC



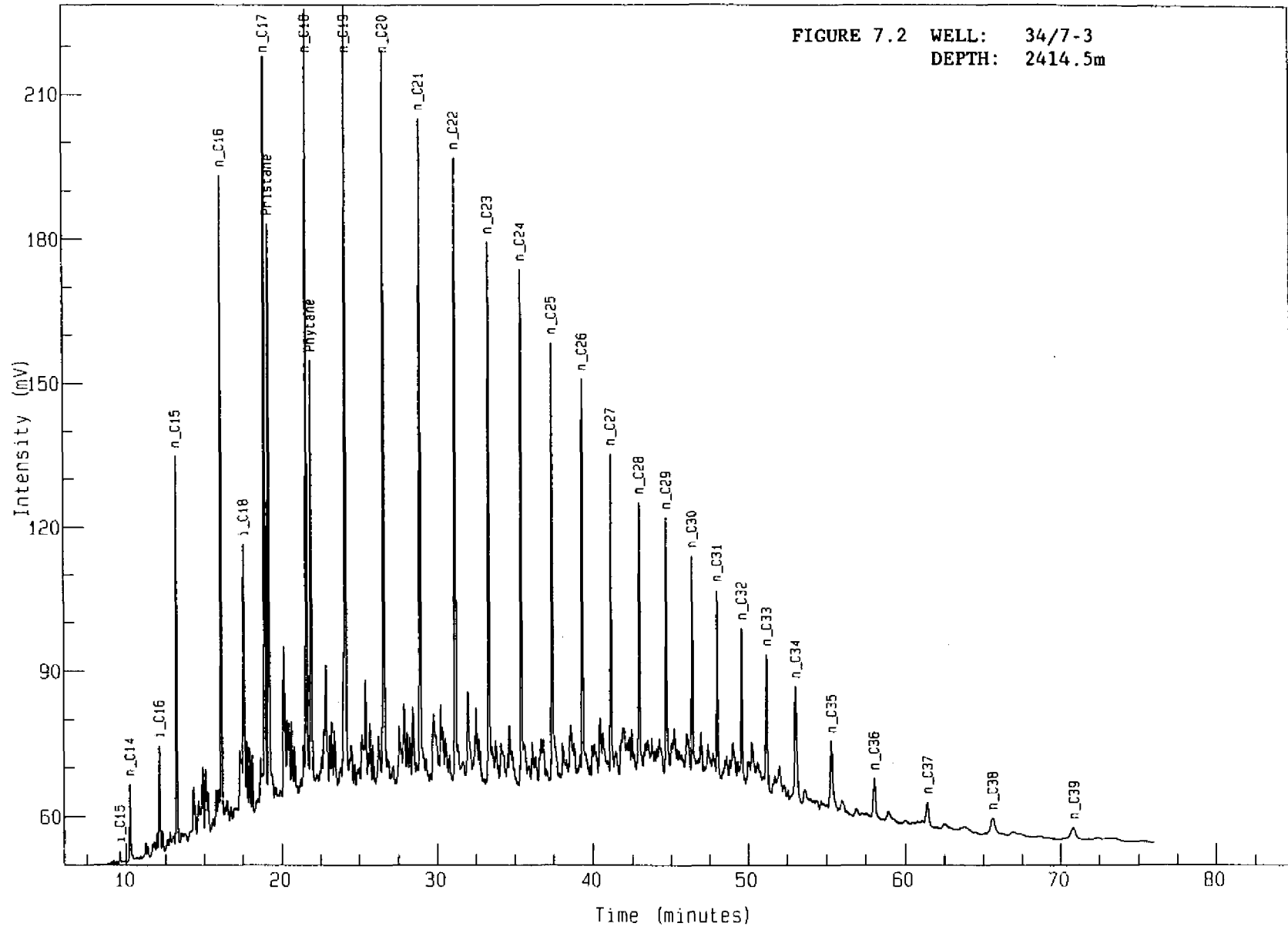
SIMON LABORATORIES

Analysis Name : 5 S92H0014R0, 1, 1.

92H 14 SAGA 34/7-3

Amount : 1.000

C15+ SATURATE GC



SIMON LABORATORIES

Analysis Name : 5 S92H0018R0, 1, 1.

92H 18 SAGA 34/7-3

Amount : 1.000

C15+ SATURATE GC

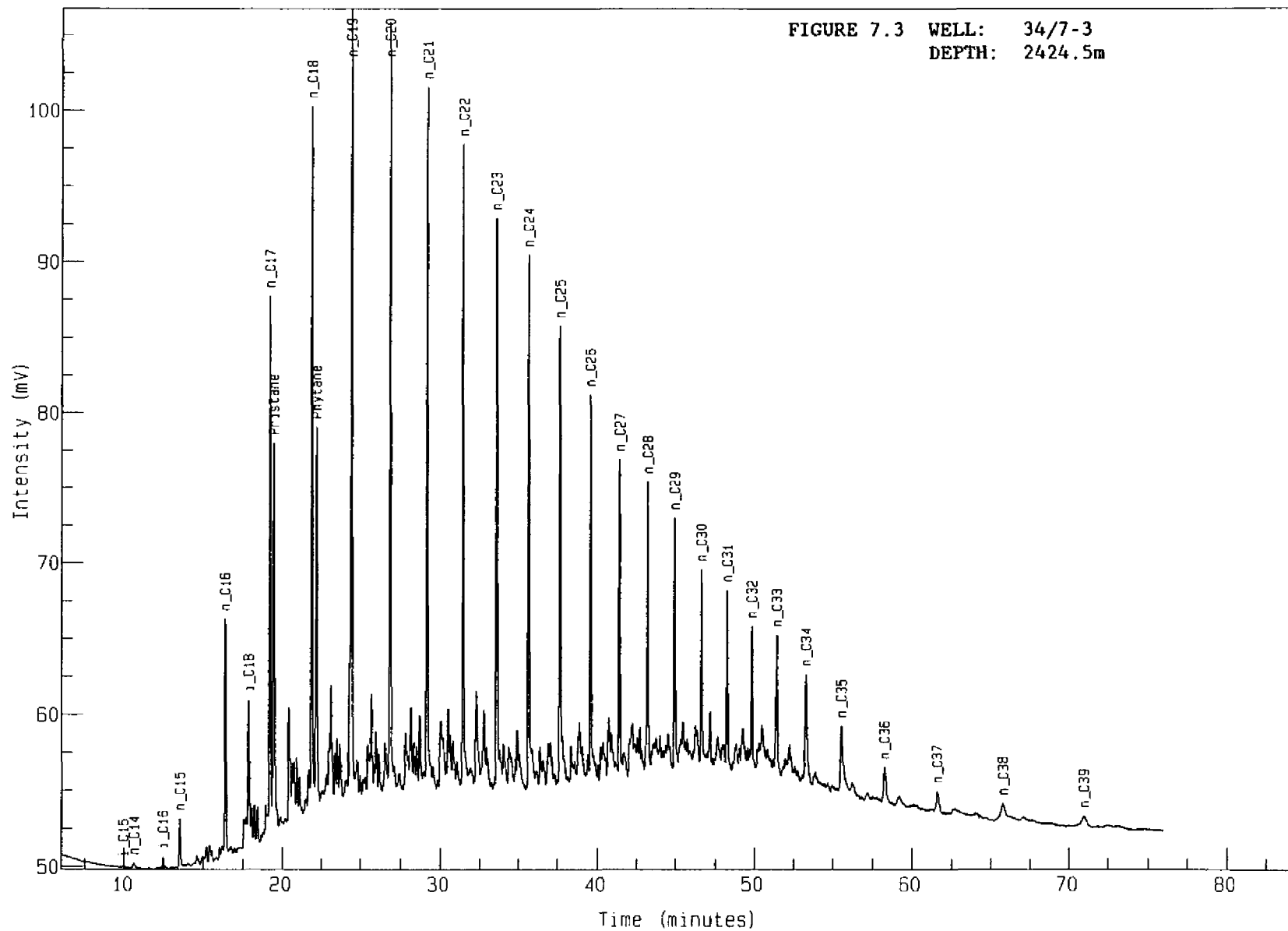


FIGURE 7.3 WELL: 34/7-3
DEPTH: 2424.5m

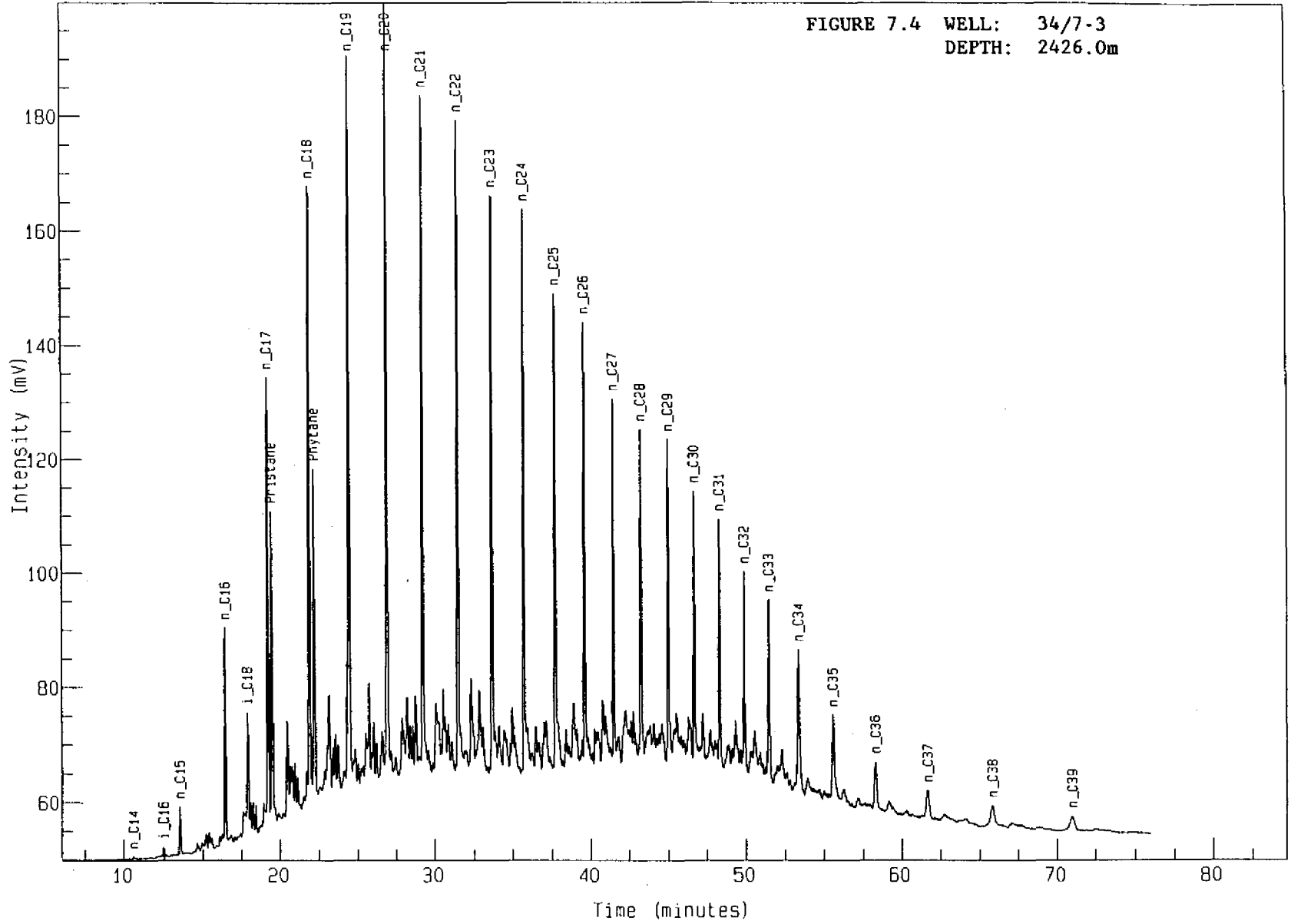
SIMON LABORATORIES

Analysis Name : 5 S92H0019R0, 1, 1.

92H 19 SAGA 34/7-3

Amount : 1.000

C15+ SATURATE GC



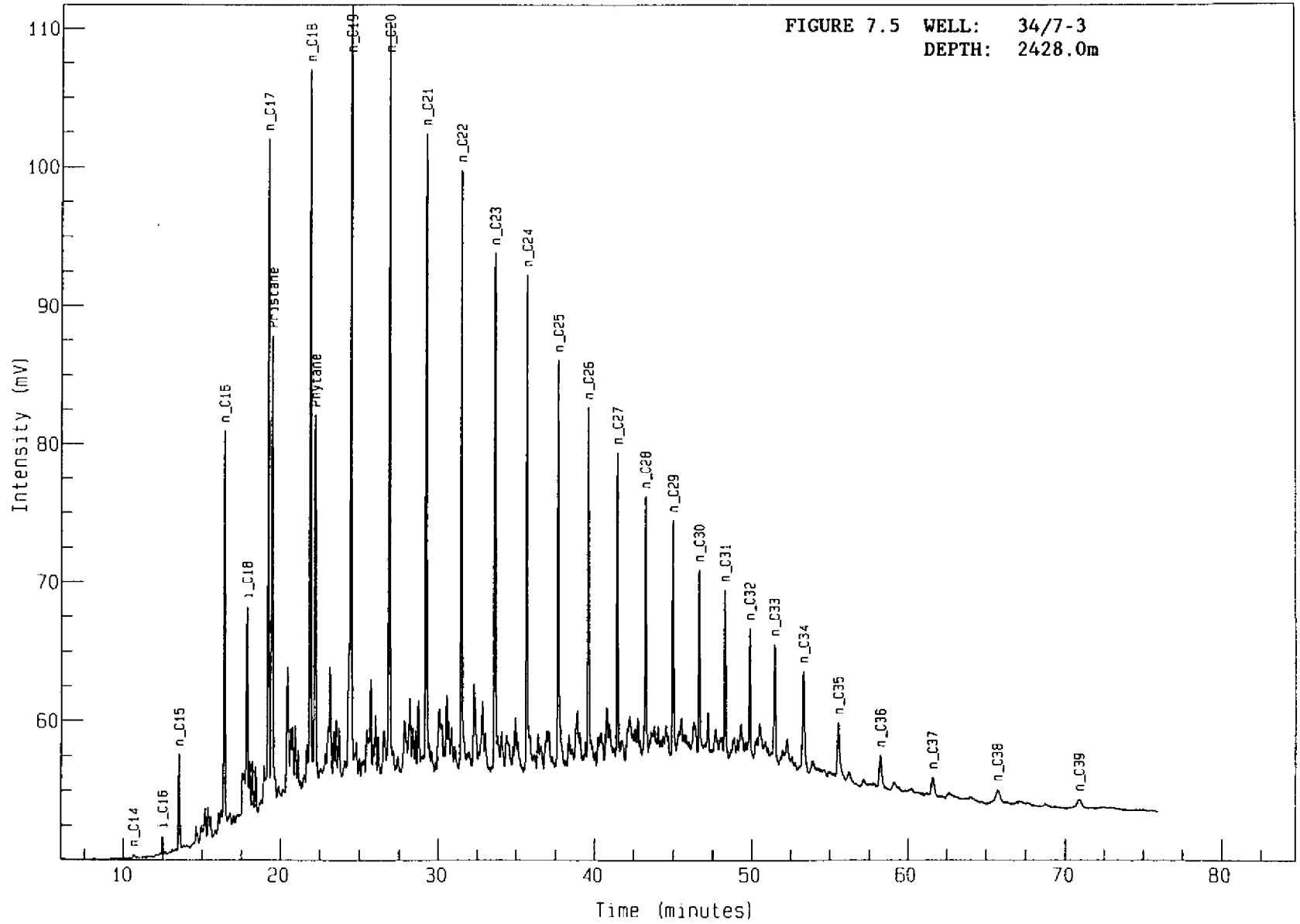
SIMON LABORATORIES

Analysis Name : 5 S92H0020R0, 1, 1.

92H 20 SAGA 34/7-3

Amount : 1.000

C15+ SATURATE GC



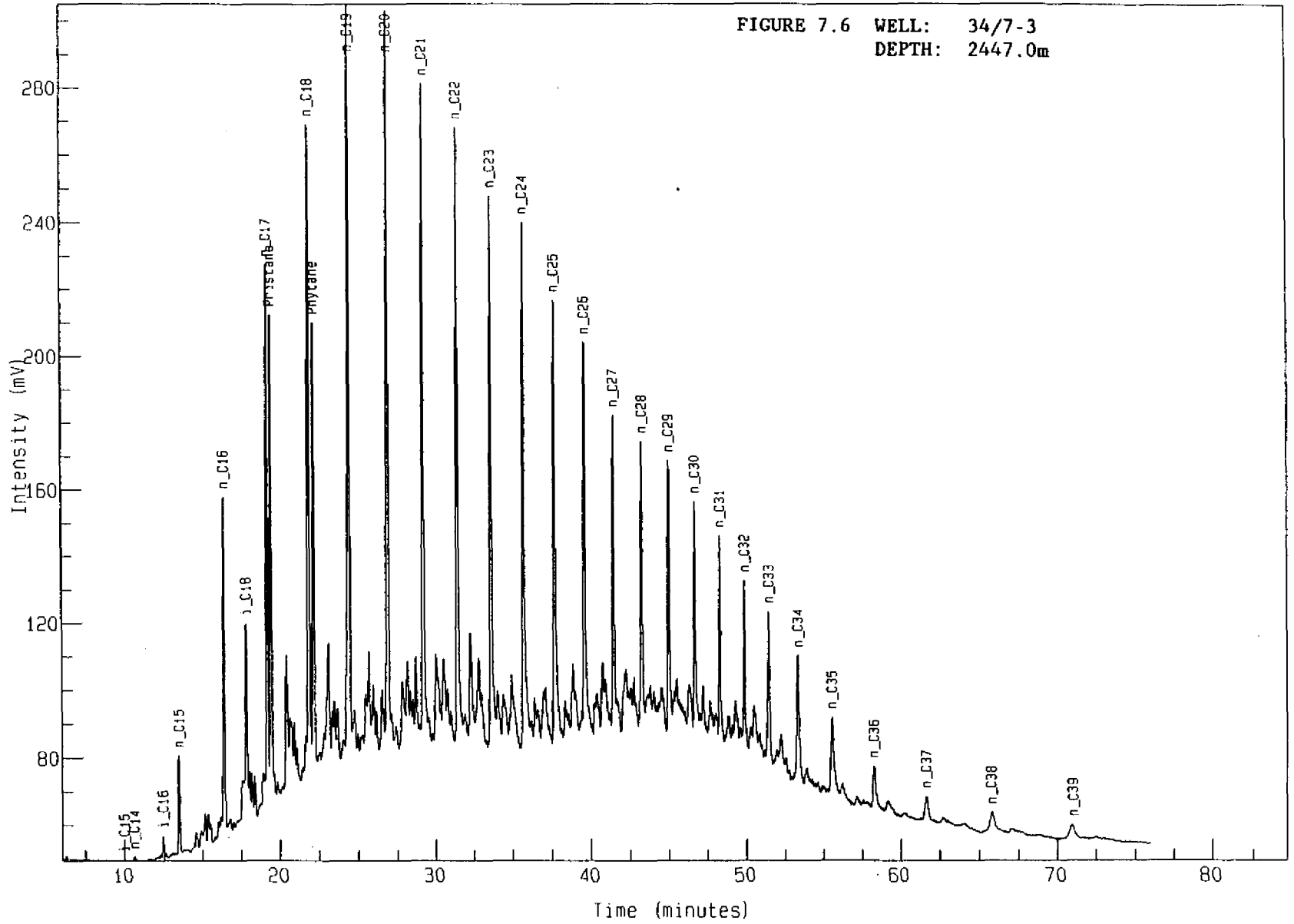
SIMON LABORATORIES

Analysis Name : 5 S92H0025R0, 1, 1.

92H 25 SAGA 3477-3

Amount : 1.000

C15+ SATURATE GC



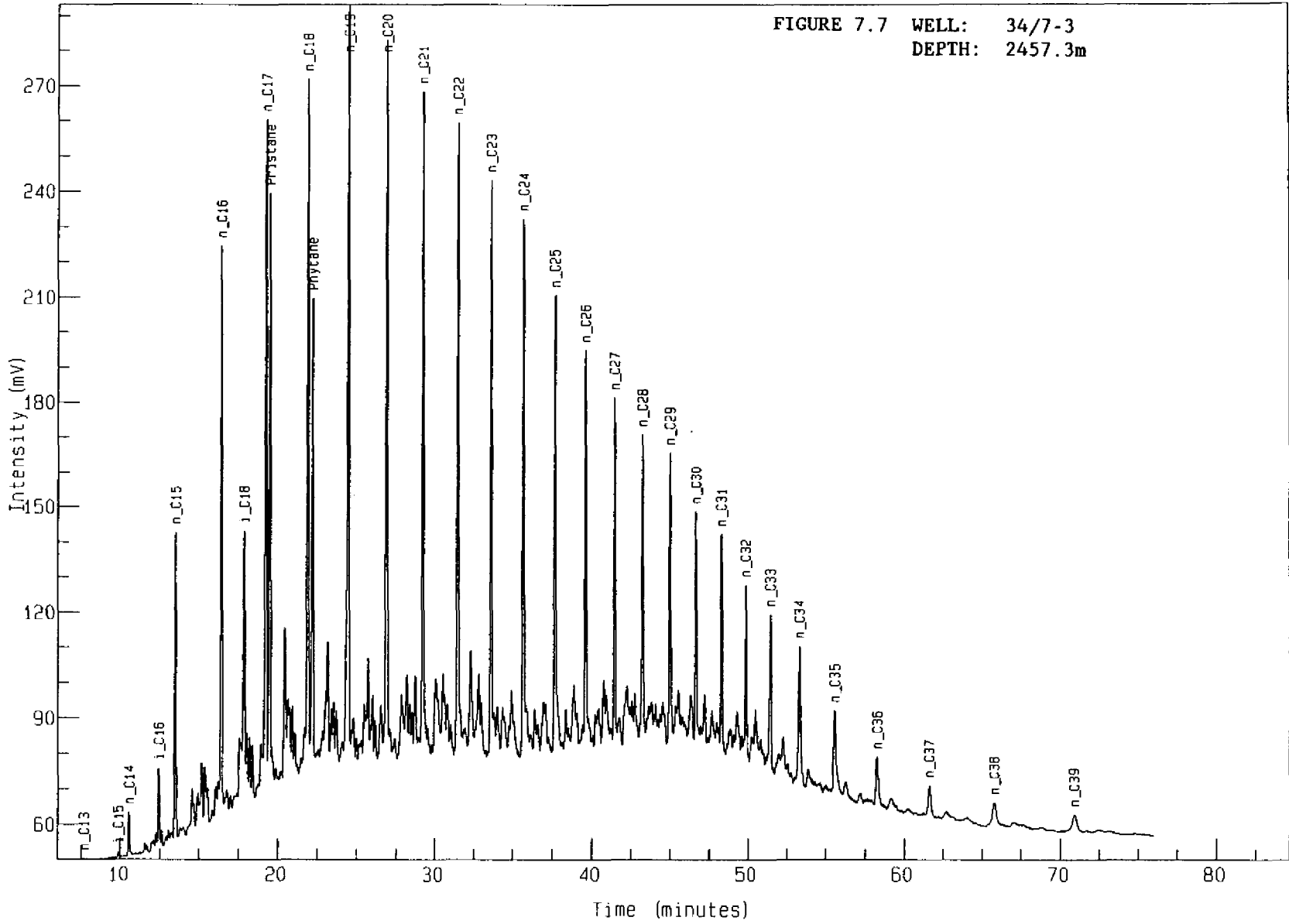
SIMON LABORATORIES

Analysis Name : 5 S92H0029R1, 1, 1.

92H 29 SAGA 34/7-3

Amount : 1.000

C15+ SATURATE GC



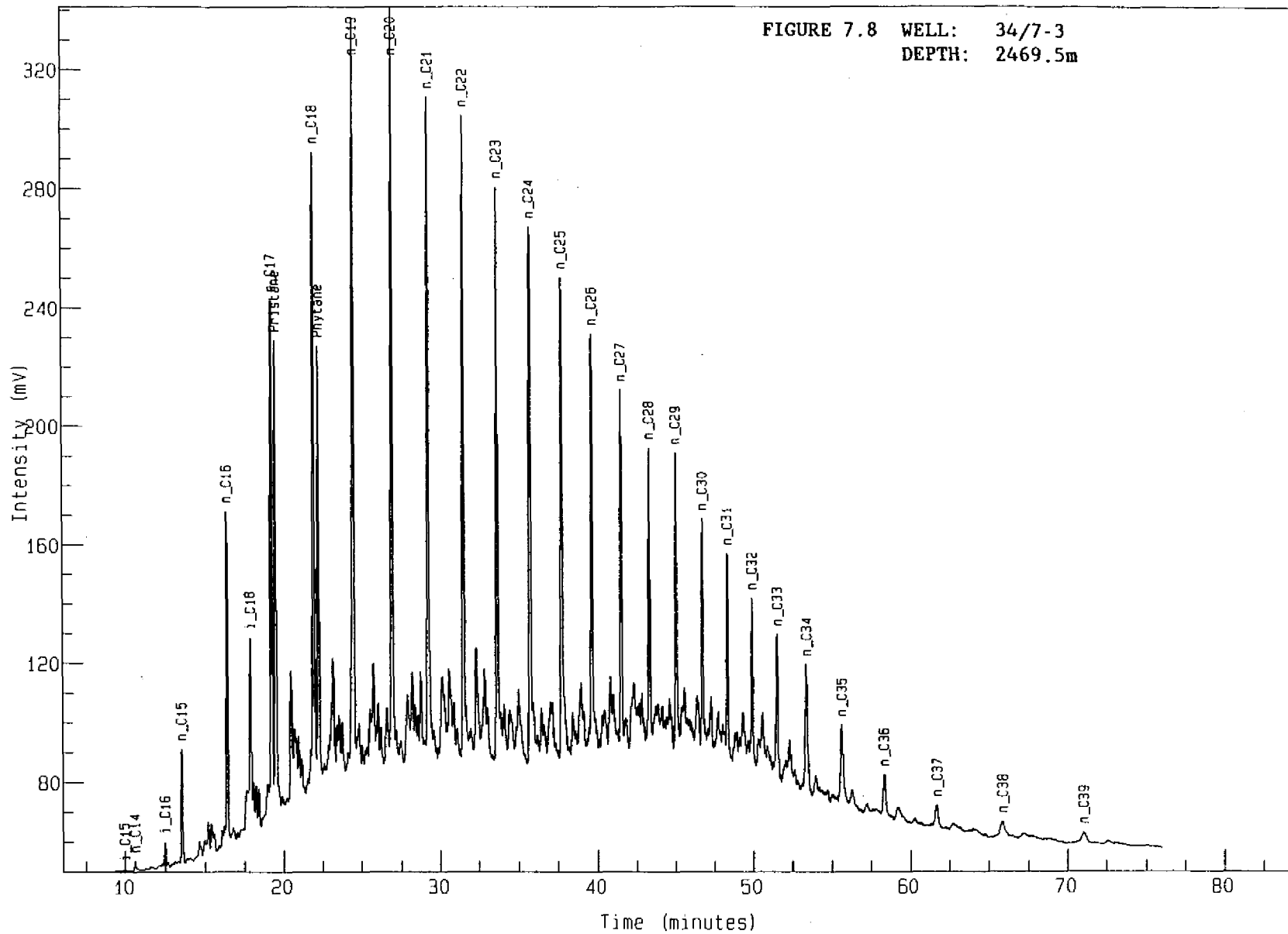
SIMON LABORATORIES

Analysis Name : 5 S92H0033R0, 1, 1.

92H 33 SAGA 34/7-3

Amount : 1.000

C15+ SATURATE GC



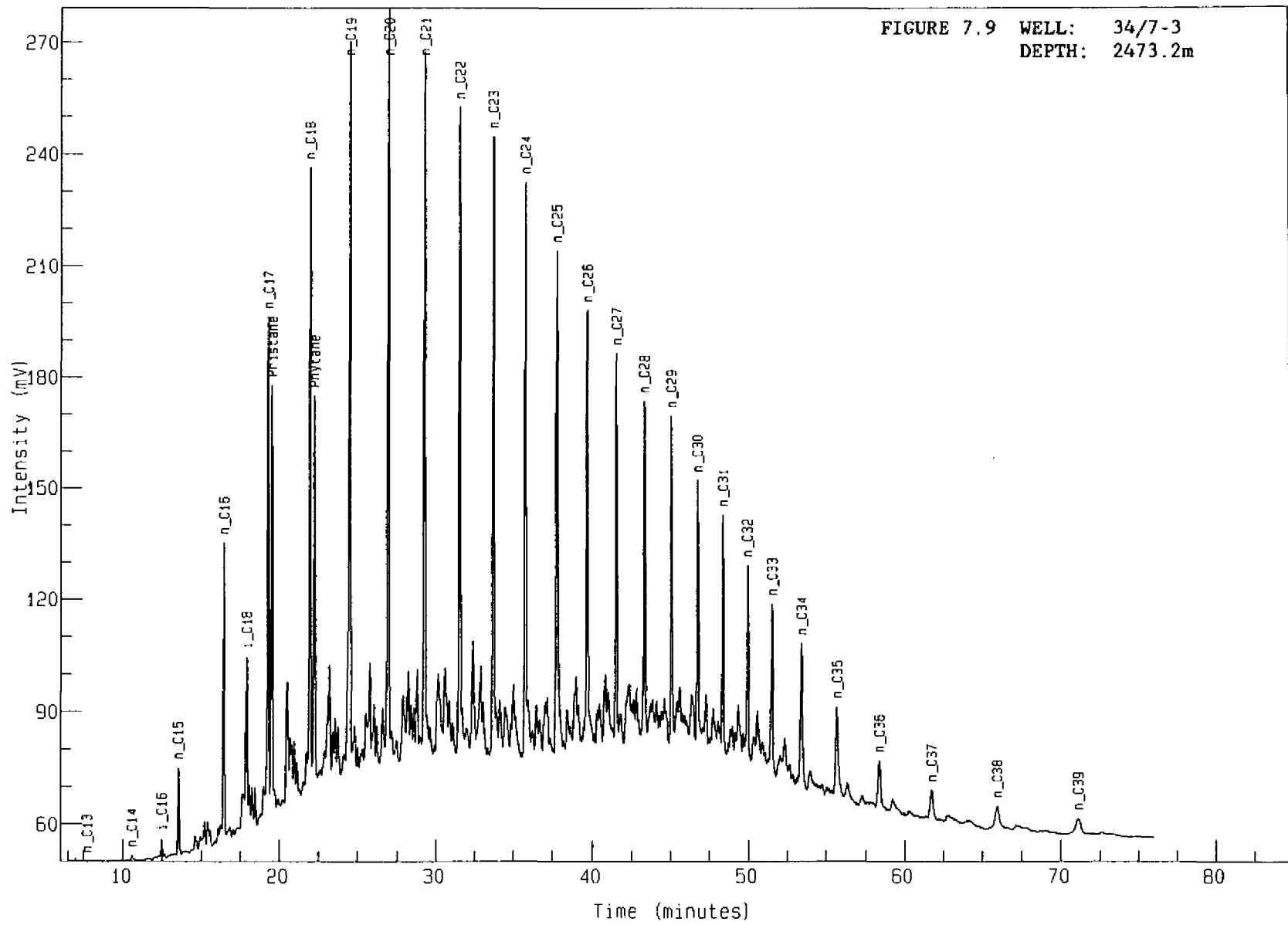
SIMON LABORATORIES

Analysis Name : 5 S92H0035R0, 1, 1.

92H 35 SAGA 34/7-3

Amount : 1.000

C15+ SATURATE GC



SIMON LABORATORIES

Analysis Name : 5 S92H0036R0, 1, 1.

S2H 36 SAGA 34/7-3

Amount : 1.000

C15+ SATURATE GC

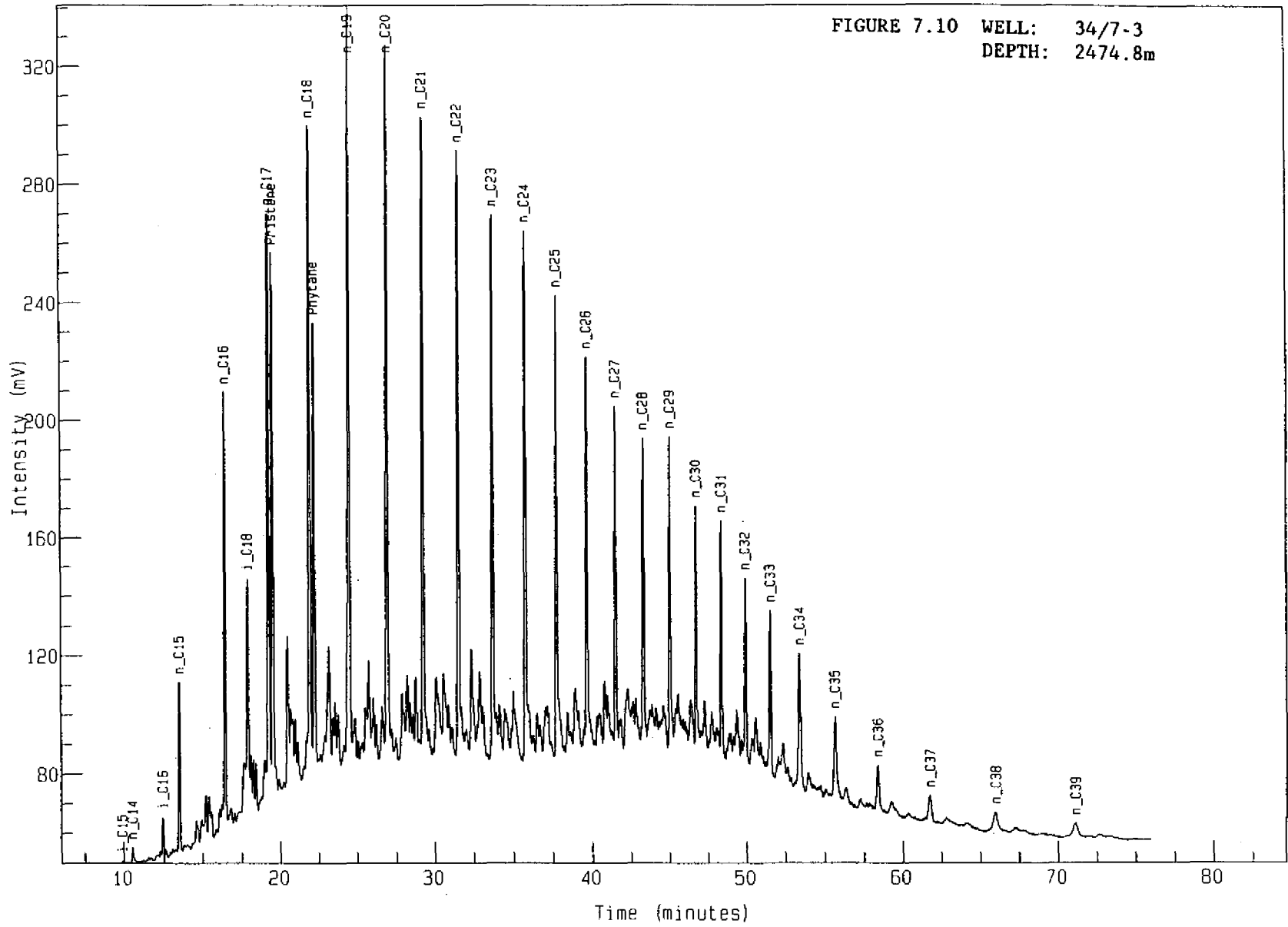


FIGURE 7.10 WELL: 34/7-3
DEPTH: 2474.8m

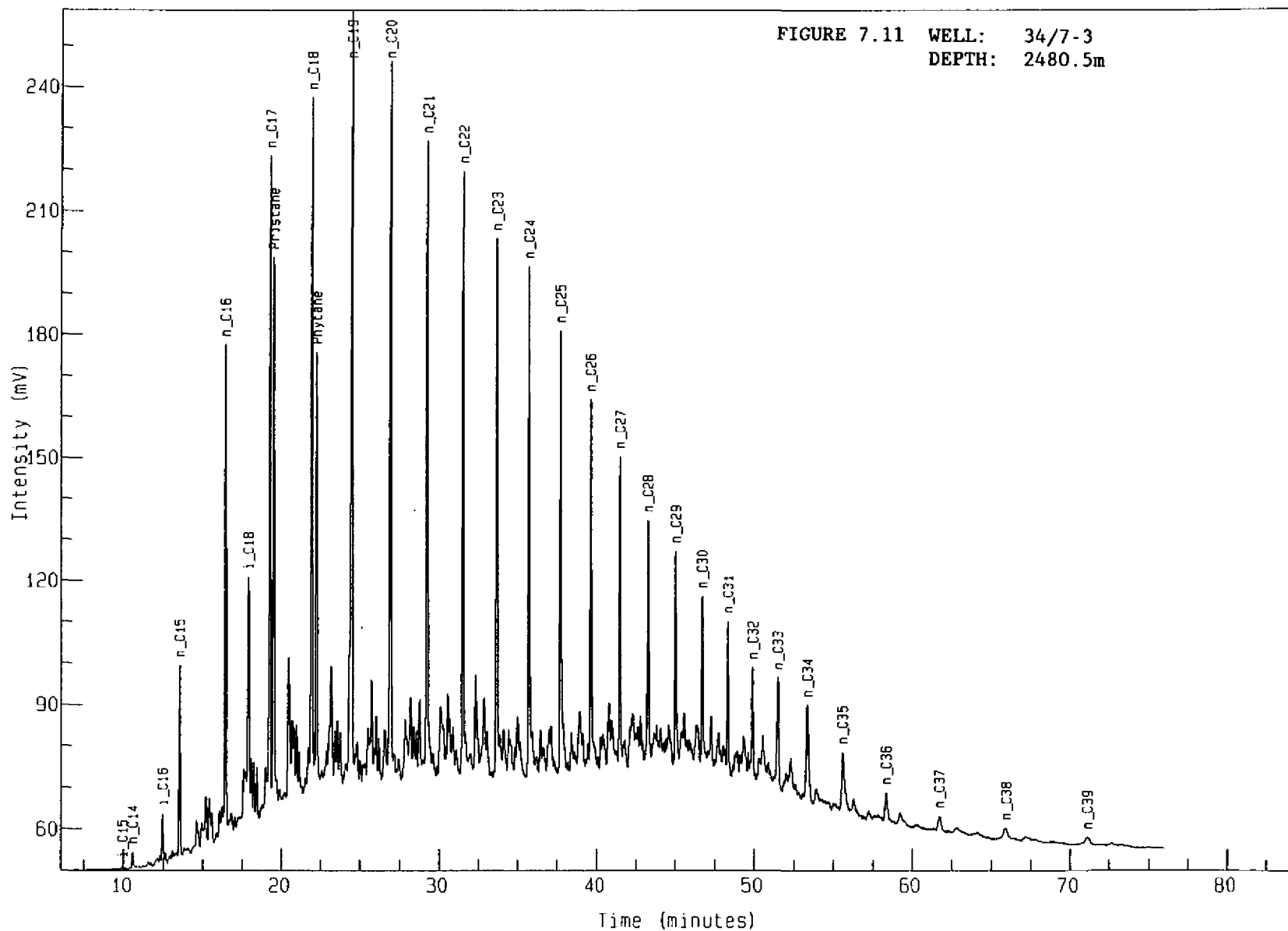
SIMON LABORATORIES

Analysis Name : 5 S92H0040R0, 1, 1.

92H 40 SAGA 34/7-3

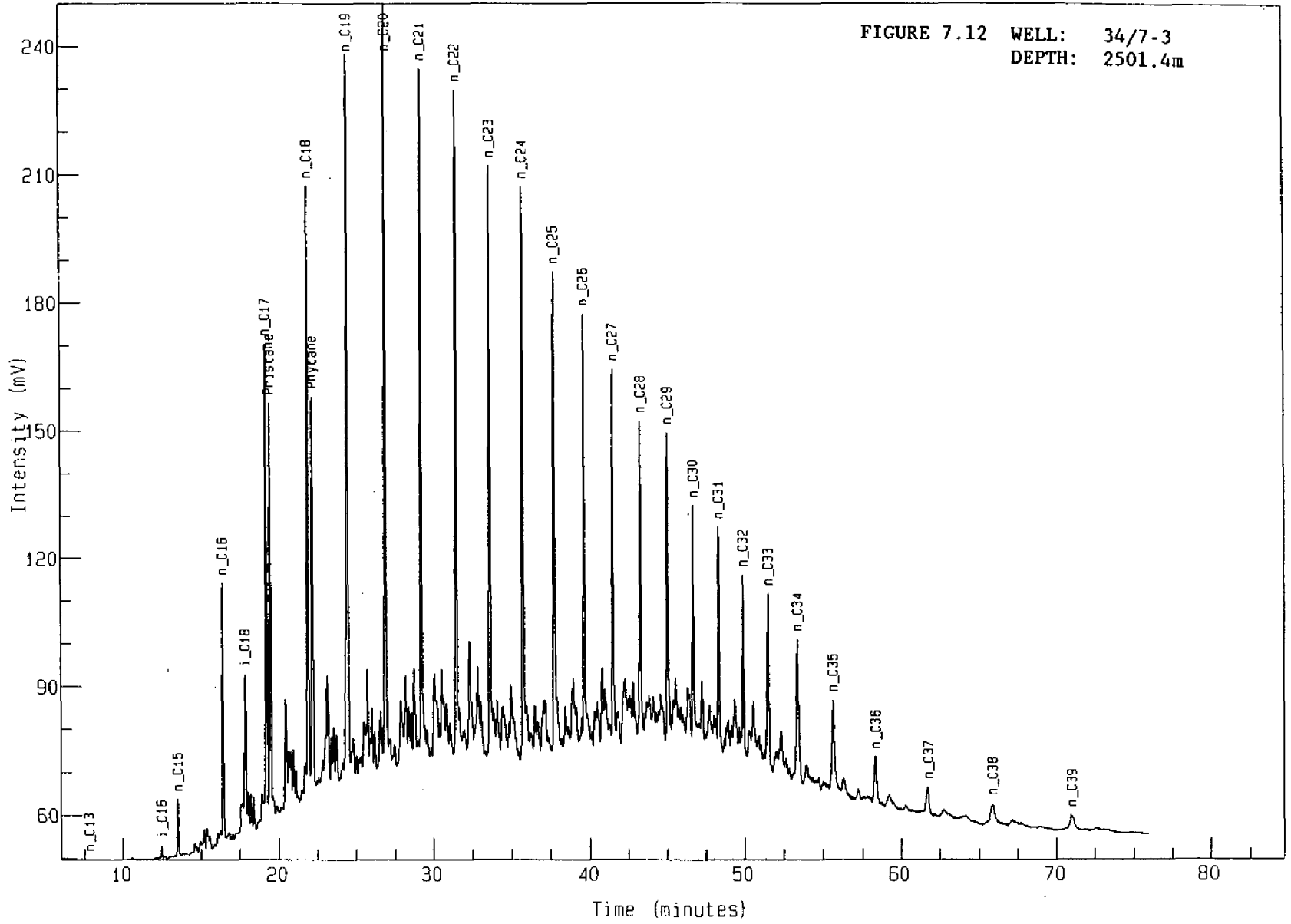
Amount : 1.000

C15+ SATURATE GC



SIMON LABORATORIES

Analysis Name : 5 S92H0043R0, 1, 1.
92H 43 SAGA 34/7-3 Amount : 1.000
C15+ SATURATE GC



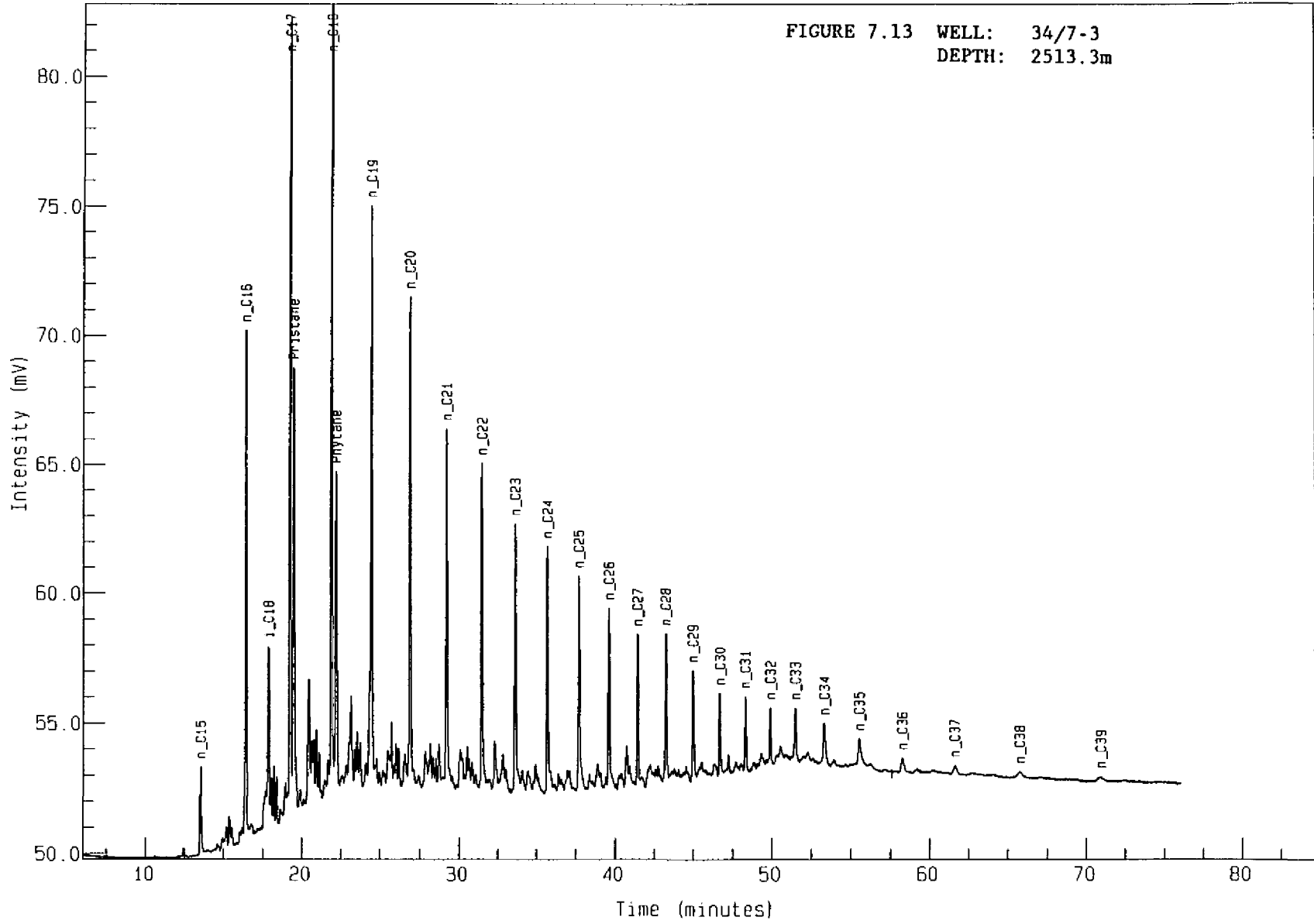
SIMON LABORATORIES

Analysis Name : 5 S92H0050R0, 1, 1.

92H 50 SABA 34/7-3

Amount : 1.000

C15+ SATURATE GC



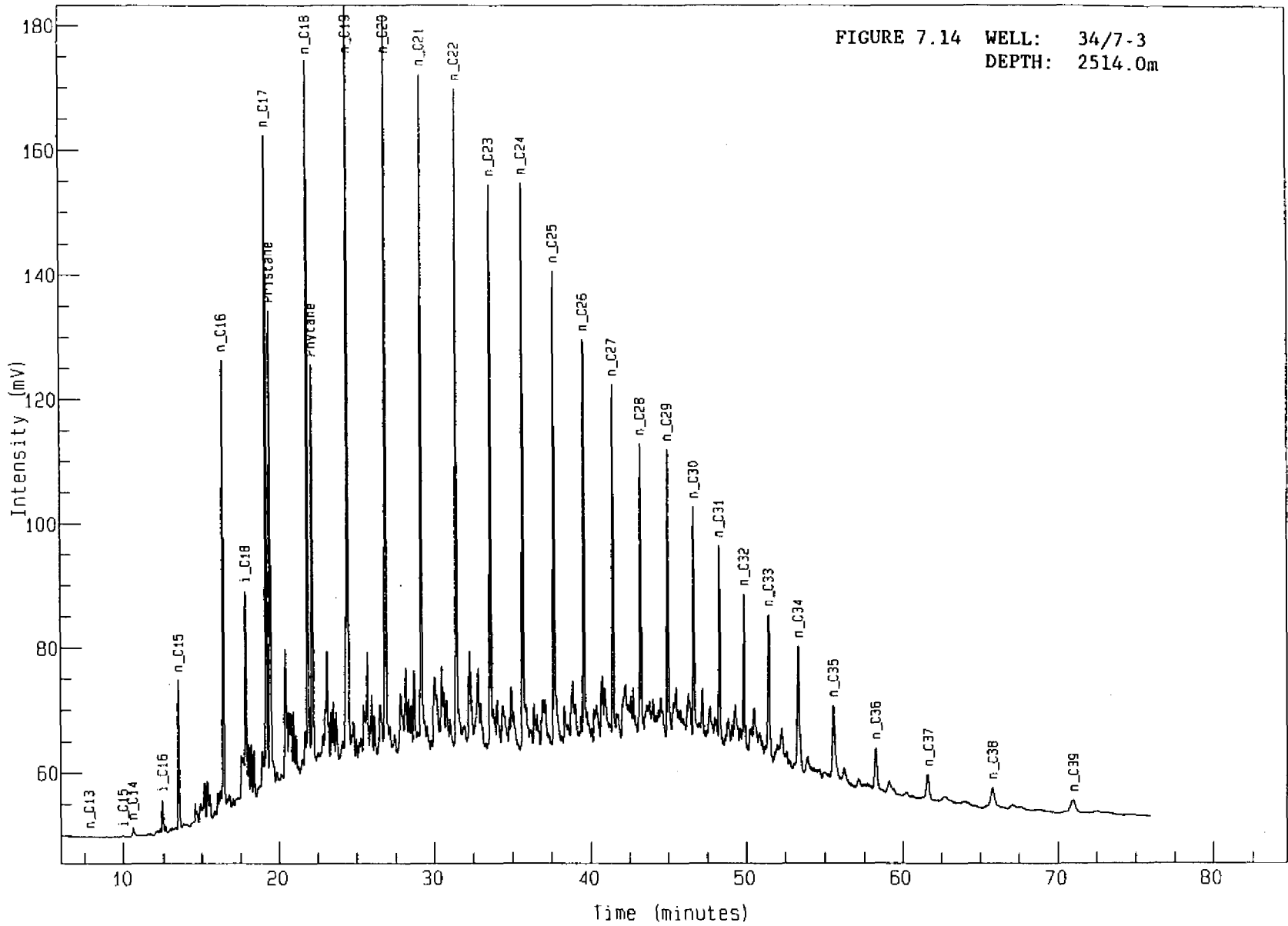
SIMON LABORATORIES

Analysis Name : 5 S92H0049R0, 1, 1.

92H 49 SAGA 34/7-3

Amount : 1.000

C15+ SATURATE GC



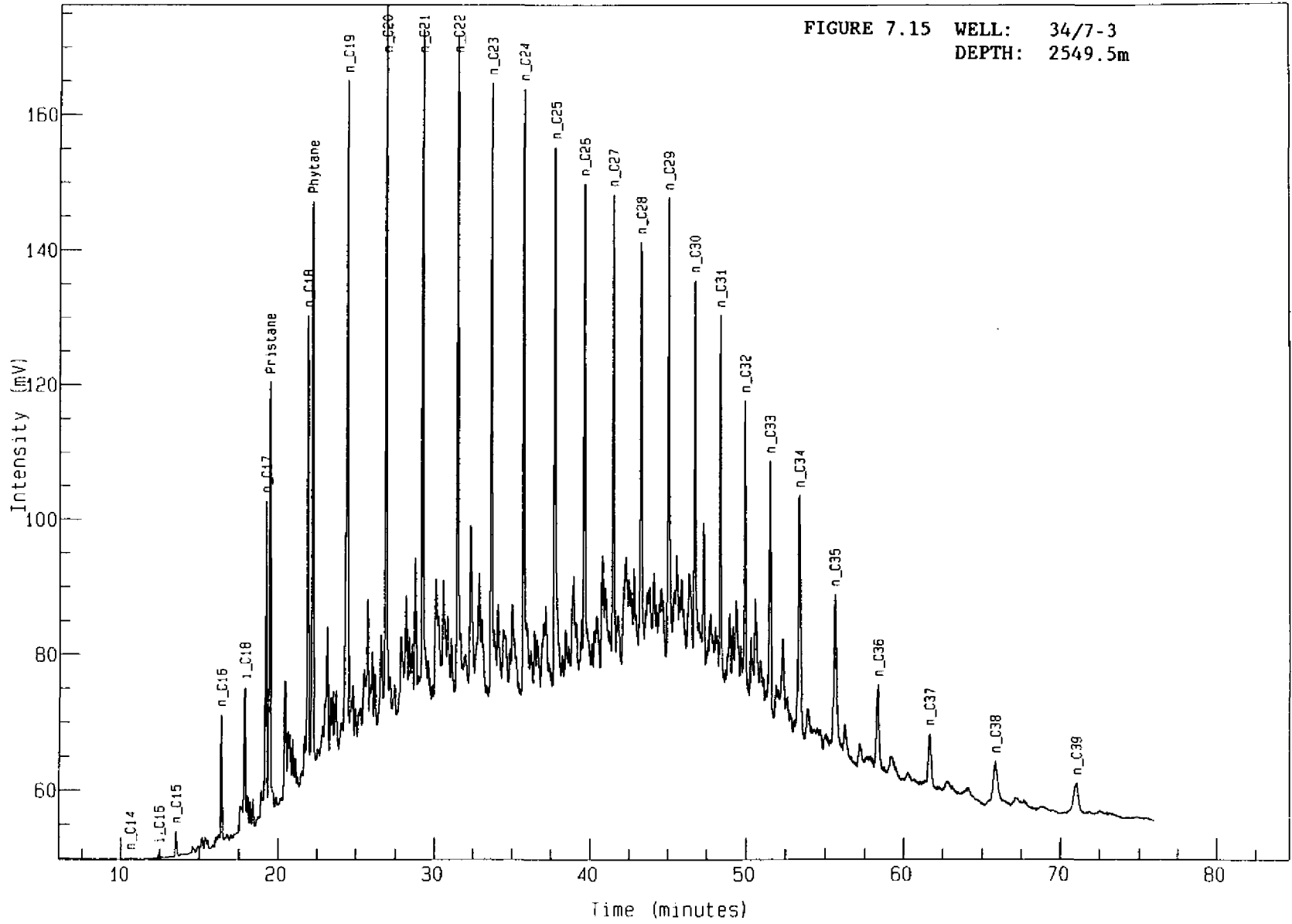
SIMON LABORATORIES

Analysis Name : 5 S92H0052R0, 1, 1.

92H 52 SAGA 34/7-3

Amount : 1.000

C15+ SATURATE 6C

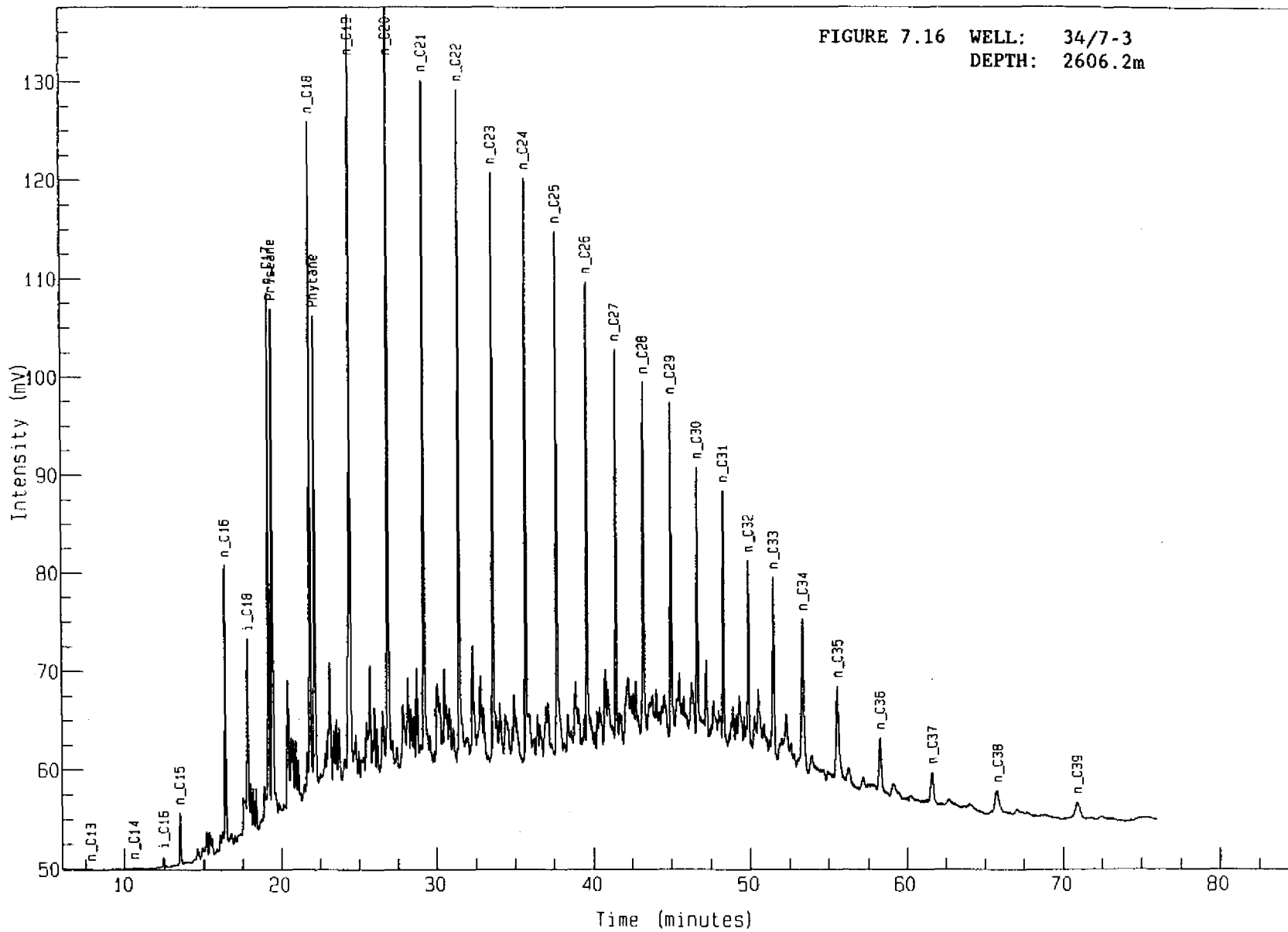


SIMON LABORATORIES

Analysis Name : 5 S92H0053R0, 1, 1.

92H 53 SAGA 34/7-3 Amount : 1.000

C15+ SATURATE GC



SIMON LABORATORIES

Analysis Name : 5 S92H0056R0, 1, 1.

92H 56 SAGA 34/7-3

Amount : 1.000

C15+ SATURATE GC

