Pyrolysis-GC from Yolla-1

Amoco Australia Petroleum Company

OR-0317

Contents

IPR OR-817

161/85

311003

TABLE 1-1

ALKANE AND ALKENE COMPONENT ANALYSIS FROM PYROLYSIS-GC

Well name: YOLLA 1 ✓

Date: 1985

Sample: 1785m SWC

Carbon No.	----Alkane + Alkene-----			---------Alkane---------			---------Alkene---------			Alkane/Alkene
	A	B	C	A	B	C	A	B	C	
1	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
2	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
3	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
4	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
5	2.006	0.1320	0.0254	0.640	0.0421	0.0081	1.366	0.0899	0.0173	0.47
6	2.029	0.1335	0.0257	0.551	0.0363	0.0070	1.478	0.0973	0.0187	0.37
7	1.394	0.0917	0.0176	0.528	0.0347	0.0067	0.866	0.0570	0.0110	0.61
8	1.054	0.0694	0.0133	0.460	0.0303	0.0058	0.594	0.0391	0.0075	0.77
9	0.887	0.0584	0.0112	0.344	0.0226	0.0044	0.543	0.0357	0.0069	0.63
10	0.950	0.0625	0.0120	0.315	0.0207	0.0040	0.635	0.0418	0.0080	0.50
11	0.801	0.0527	0.0101	0.337	0.0222	0.0043	0.464	0.0305	0.0059	0.73
12	0.894	0.0588	0.0113	0.427	0.0281	0.0054	0.467	0.0307	0.0059	0.91
13	0.967	0.0636	0.0122	0.473	0.0311	0.0060	0.494	0.0325	0.0063	0.96
14	1.238	0.0815	0.0157	0.744	0.0490	0.0094	0.494	0.0325	0.0063	1.51
15	0.976	0.0642	0.0124	0.425	0.0280	0.0054	0.551	0.0363	0.0070	0.77
16	0.916	0.0603	0.0116	0.417	0.0274	0.0053	0.499	0.0328	0.0063	0.84
17	0.568	0.0374	0.0072	0.275	0.0181	0.0035	0.293	0.0193	0.0037	0.94
18	0.561	0.0369	0.0071	0.262	0.0172	0.0033	0.299	0.0197	0.0038	0.88
19	0.501	0.0330	0.0063	0.206	0.0136	0.0026	0.295	0.0194	0.0037	0.70
20	0.391	0.0257	0.0049	0.196	0.0129	0.0025	0.195	0.0128	0.0025	1.01
21	0.387	0.0255	0.0049	0.208	0.0137	0.0026	0.179	0.0118	0.0023	1.16
22	0.428	0.0282	0.0054	0.226	0.0149	0.0029	0.202	0.0133	0.0026	1.12
23	0.337	0.0222	0.0043	0.202	0.0133	0.0026	0.135	0.0089	0.0017	1.50
24	0.316	0.0208	0.0040	0.184	0.0121	0.0023	0.132	0.0087	0.0017	1.39
25	0.299	0.0197	0.0038	0.182	0.0120	0.0023	0.117	0.0077	0.0015	1.56
26	0.270	0.0178	0.0034	0.158	0.0104	0.0020	0.112	0.0074	0.0014	1.41
27	0.232	0.0153	0.0029	0.143	0.0094	0.0018	0.089	0.0059	0.0011	1.61
28	0.180	0.0118	0.0023	0.116	0.0076	0.0015	0.064	0.0042	0.0008	1.81
29	0.193	0.0127	0.0024	0.145	0.0095	0.0018	0.048	0.0032	0.0006	3.02
30	0.188	0.0124	0.0024	0.135	0.0089	0.0017	0.053	0.0035	0.0007	2.55
31	0.093	0.0061	0.0012	0.071	0.0047	0.0009	0.022	0.0014	0.0003	3.23

nd = no data
A = % of S2
B = mg/g Rock
C = (mg/g Rock)/TOC

TABLE 1-2

ALKANE AND ALKENE COMPONENT ANALYSIS FROM PYROLYSIS-GC

Well name: YOLLA 1 Date: 1985

Sample: 1958-1967m

Carbon No.	----Alkane + Alkene-----			---------Alkane---------			---------Alkene---------			Alkane/Alkene
	A	B	C	A	B	C	A	B	C	
1	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
2	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
3	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
4	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
5	1.993	0.4094	0.0505	0.691	0.1419	0.0175	1.302	0.2674	0.0330	0.53
6	1.948	0.4001	0.0494	0.538	0.1105	0.0136	1.410	0.2896	0.0358	0.38
7	1.286	0.2641	0.0326	0.505	0.1037	0.0128	0.781	0.1604	0.0198	0.65
8	0.913	0.1875	0.0232	0.365	0.0750	0.0093	0.548	0.1126	0.0139	0.67
9	0.873	0.1793	0.0221	0.345	0.0709	0.0087	0.528	0.1085	0.0134	0.65
10	0.974	0.2001	0.0247	0.241	0.0495	0.0061	0.733	0.1506	0.0186	0.33
11	0.807	0.1658	0.0205	0.308	0.0633	0.0078	0.499	0.1025	0.0127	0.62
12	0.696	0.1430	0.0176	0.283	0.0581	0.0072	0.413	0.0848	0.0105	0.69
13	0.416	0.0854	0.0105	0.199	0.0409	0.0050	0.217	0.0446	0.0055	0.92
14	0.393	0.0807	0.0100	0.232	0.0477	0.0059	0.161	0.0331	0.0041	1.44
15	0.381	0.0783	0.0097	0.150	0.0308	0.0038	0.231	0.0474	0.0059	0.65
16	0.193	0.0396	0.0049	0.102	0.0210	0.0026	0.091	0.0187	0.0023	1.12
17	0.278	0.0571	0.0070	0.130	0.0267	0.0033	0.148	0.0304	0.0038	0.88
18	0.177	0.0364	0.0045	0.092	0.0189	0.0023	0.085	0.0175	0.0022	1.08
19	0.211	0.0433	0.0054	0.103	0.0212	0.0026	0.108	0.0222	0.0027	0.95
20	0.169	0.0347	0.0043	0.092	0.0189	0.0023	0.077	0.0158	0.0020	1.19
21	0.187	0.0384	0.0047	0.115	0.0236	0.0029	0.072	0.0148	0.0018	1.60
22	0.206	0.0423	0.0052	0.107	0.0220	0.0027	0.099	0.0203	0.0025	1.08
23	0.228	0.0468	0.0058	0.130	0.0267	0.0033	0.098	0.0201	0.0025	1.33
24	0.265	0.0544	0.0067	0.163	0.0335	0.0041	0.102	0.0210	0.0026	1.60
25	0.274	0.0563	0.0069	0.169	0.0347	0.0043	0.105	0.0216	0.0027	1.61
26	0.244	0.0501	0.0062	0.157	0.0322	0.0040	0.087	0.0179	0.0022	1.80
27	0.232	0.0477	0.0059	0.143	0.0294	0.0036	0.089	0.0183	0.0023	1.61
28	0.173	0.0355	0.0044	0.116	0.0238	0.0029	0.057	0.0117	0.0014	2.04
29	0.179	0.0368	0.0045	0.126	0.0259	0.0032	0.053	0.0109	0.0013	2.38
30	0.084	0.0173	0.0021	0.062	0.0127	0.0016	0.022	0.0045	0.0006	2.82
31	0.035	0.0072	0.0009	0.022	0.0045	0.0006	0.013	0.0027	0.0003	1.69

nd = no data
A = % of S2
B = mg/g Rock
C = (mg/g Rock)/TOC

TABLE 1-3

ALKANE AND ALKENE COMPONENT ANALYSIS FROM PYROLYSIS-GC

Well name: YOLLA 1 Date: 1985

Sample: 2021-2030m

Carbon No.	----Alkane + Alkene-----			---------Alkane---------			---------Alkene---------			Alkane/Alkene
	A	B	C	A	B	C	A	B	C	
1	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
2	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
3	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
4	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
5	2.263	0.5443	0.0640	0.842	0.2025	0.0238	1.421	0.3418	0.0402	0.59
6	2.176	0.5233	0.0616	0.636	0.1530	0.0180	1.540	0.3704	0.0436	0.41
7	1.429	0.3437	0.0404	0.587	0.1412	0.0166	0.842	0.2025	0.0238	0.70
8	1.064	0.2559	0.0301	0.417	0.1003	0.0118	0.647	0.1556	0.0183	0.64
9	0.910	0.2189	0.0257	0.380	0.0914	0.0108	0.530	0.1275	0.0150	0.72
10	0.917	0.2205	0.0259	0.390	0.0938	0.0110	0.527	0.1267	0.0149	0.74
11	0.898	0.2160	0.0254	0.284	0.0683	0.0080	0.614	0.1477	0.0174	0.46
12	0.590	0.1419	0.0167	0.233	0.0560	0.0066	0.357	0.0859	0.0101	0.65
13	0.678	0.1631	0.0192	0.325	0.0782	0.0092	0.353	0.0849	0.0100	0.92
14	0.702	0.1688	0.0199	0.352	0.0847	0.0100	0.350	0.0842	0.0099	1.01
15	0.723	0.1739	0.0205	0.251	0.0604	0.0071	0.472	0.1135	0.0134	0.53
16	0.410	0.0986	0.0116	0.191	0.0459	0.0054	0.219	0.0527	0.0062	0.87
17	0.469	0.1128	0.0133	0.227	0.0546	0.0064	0.242	0.0582	0.0068	0.94
18	0.422	0.1015	0.0119	0.209	0.0503	0.0059	0.213	0.0512	0.0060	0.98
19	0.492	0.1183	0.0139	0.219	0.0527	0.0062	0.273	0.0657	0.0077	0.80
20	0.426	0.1025	0.0121	0.230	0.0553	0.0065	0.196	0.0471	0.0055	1.17
21	0.525	0.1263	0.0149	0.279	0.0671	0.0079	0.246	0.0592	0.0070	1.13
22	0.495	0.1190	0.0140	0.268	0.0645	0.0076	0.227	0.0546	0.0064	1.18
23	0.591	0.1421	0.0167	0.282	0.0678	0.0080	0.309	0.0743	0.0087	0.91
24	0.599	0.1441	0.0169	0.352	0.0847	0.0100	0.247	0.0594	0.0070	1.43
25	0.609	0.1465	0.0172	0.342	0.0823	0.0097	0.267	0.0642	0.0076	1.28
26	0.582	0.1400	0.0165	0.326	0.0784	0.0092	0.256	0.0616	0.0072	1.27
27	0.514	0.1236	0.0145	0.274	0.0659	0.0078	0.240	0.0577	0.0068	1.14
28	0.339	0.0815	0.0096	0.192	0.0462	0.0054	0.147	0.0354	0.0042	1.31
29	0.290	0.0697	0.0082	0.172	0.0414	0.0049	0.118	0.0284	0.0033	1.46
30	0.148	0.0356	0.0042	0.085	0.0204	0.0024	0.063	0.0152	0.0018	1.35
31	0.144	0.0346	0.0041	0.084	0.0202	0.0024	0.060	0.0144	0.0017	1.40

nd = no data
A = % of S2
B = mg/g Rock
C = (mg/g Rock)/TOC

TABLE 1-4

ALKANE AND ALKENE COMPONENT ANALYSIS FROM PYROLYSIS-GC

Well name: YOLLA 1 Date: 1985

Sample: 2075-2084m

Carbon No.	----Alkane + Alkene-----			---------Alkane---------			---------Alkene---------			Alkane/Alkene
	A	B	C	A	B	C	A	B	C	
1	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
2	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
3	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
4	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
5	1.601	0.3607	0.0390	0.622	0.1401	0.0151	0.979	0.2206	0.0238	0.64
6	1.719	0.3873	0.0419	0.415	0.0935	0.0101	1.304	0.2938	0.0318	0.32
7	0.971	0.2188	0.0237	0.329	0.0741	0.0080	0.642	0.1446	0.0156	0.51
8	0.568	0.1280	0.0138	0.216	0.0487	0.0053	0.352	0.0793	0.0086	0.61
9	0.530	0.1194	0.0129	0.189	0.0426	0.0046	0.341	0.0768	0.0083	0.55
10	0.878	0.1978	0.0214	0.440	0.0991	0.0107	0.438	0.0987	0.0107	1.00
11	0.303	0.0683	0.0074	0.303	0.0683	0.0074	nd	nd	nd	nd
12	0.490	0.1104	0.0119	0.210	0.0473	0.0051	0.280	0.0631	0.0068	0.75
13	0.418	0.0942	0.0102	0.215	0.0484	0.0052	0.203	0.0457	0.0049	1.06
14	0.466	0.1050	0.0114	0.244	0.0550	0.0059	0.222	0.0500	0.0054	1.10
15	0.290	0.0653	0.0071	0.114	0.0257	0.0028	0.176	0.0397	0.0043	0.65
16	0.331	0.0746	0.0081	0.157	0.0354	0.0038	0.174	0.0392	0.0042	0.90
17	0.364	0.0820	0.0089	0.139	0.0313	0.0034	0.225	0.0507	0.0055	0.62
18	0.219	0.0493	0.0053	0.091	0.0205	0.0022	0.128	0.0288	0.0031	0.71
19	0.428	0.0964	0.0104	0.202	0.0455	0.0049	0.226	0.0509	0.0055	0.89
20	0.202	0.0455	0.0049	0.095	0.0214	0.0023	0.107	0.0241	0.0026	0.89
21	0.217	0.0489	0.0053	0.111	0.0250	0.0027	0.106	0.0239	0.0026	1.05
22	0.211	0.0475	0.0051	0.085	0.0192	0.0021	0.126	0.0284	0.0031	0.67
23	0.171	0.0385	0.0042	0.087	0.0196	0.0021	0.084	0.0189	0.0020	1.04
24	0.171	0.0385	0.0042	0.098	0.0221	0.0024	0.073	0.0164	0.0018	1.34
25	0.139	0.0313	0.0034	0.086	0.0194	0.0021	0.053	0.0119	0.0013	1.62
26	0.115	0.0259	0.0028	0.077	0.0173	0.0019	0.038	0.0086	0.0009	2.03
27	0.115	0.0259	0.0028	0.070	0.0158	0.0017	0.045	0.0101	0.0011	1.56
28	0.092	0.0207	0.0022	0.063	0.0142	0.0015	0.029	0.0065	0.0007	2.17
29	0.078	0.0176	0.0019	0.059	0.0133	0.0014	0.019	0.0043	0.0005	3.11
30	0.041	0.0092	0.0010	0.030	0.0068	0.0007	0.011	0.0025	0.0003	2.73
31	0.048	0.0108	0.0012	0.040	0.0090	0.0010	0.008	0.0018	0.0002	5.00

nd = no data
A = % of S2
B = mg/g Rock
C = (mg/g Rock)/TOC

TABLE 1-5

ALKANE AND ALKENE COMPONENT ANALYSIS FROM PYROLYSIS-GC

Well name: YOLLA 1 Date: 1985

Sample: 2174-2183m

Carbon No.	----Alkane + Alkene-----			---------Alkane---------			---------Alkene---------			Alkane/Alkene
	A	B	C	A	B	C	A	B	C	
1	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
2	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
3	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
4	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
5	2.131	3.2161	0.0699	0.794	1.1983	0.0261	1.337	2.0178	0.0439	0.59
6	2.168	3.2719	0.0711	0.627	0.9463	0.0206	1.541	2.3257	0.0506	0.41
7	1.370	2.0676	0.0449	0.518	0.7818	0.0170	0.852	1.2858	0.0280	0.61
8	0.967	1.4594	0.0317	0.378	0.5705	0.0124	0.589	0.8889	0.0193	0.64
9	0.850	1.2828	0.0279	0.319	0.4814	0.0105	0.531	0.8014	0.0174	0.60
10	0.891	1.3447	0.0292	0.377	0.5690	0.0124	0.514	0.7757	0.0169	0.73
11	0.811	1.2240	0.0266	0.282	0.4256	0.0093	0.529	0.7984	0.0174	0.53
12	0.651	0.9825	0.0214	0.247	0.3728	0.0081	0.404	0.6097	0.0133	0.61
13	0.454	0.6852	0.0149	0.211	0.3184	0.0069	0.243	0.3667	0.0080	0.87
14	0.417	0.6293	0.0137	0.178	0.2686	0.0058	0.239	0.3607	0.0078	0.74
15	0.248	0.3743	0.0081	0.081	0.1222	0.0027	0.167	0.2520	0.0055	0.49
16	0.158	0.2385	0.0052	0.071	0.1072	0.0023	0.087	0.1313	0.0029	0.82
17	0.192	0.2898	0.0063	0.079	0.1192	0.0026	0.113	0.1705	0.0037	0.70
18	0.159	0.2400	0.0052	0.070	0.1056	0.0023	0.089	0.1343	0.0029	0.79
19	0.113	0.1705	0.0037	0.040	0.0604	0.0013	0.073	0.1102	0.0024	0.55
20	0.154	0.2324	0.0051	0.077	0.1162	0.0025	0.077	0.1162	0.0025	1.00
21	0.175	0.2641	0.0057	0.095	0.1434	0.0031	0.080	0.1207	0.0026	1.19
22	0.217	0.3275	0.0071	0.090	0.1358	0.0030	0.127	0.1917	0.0042	0.71
23	0.203	0.3064	0.0067	0.109	0.1645	0.0036	0.094	0.1419	0.0031	1.16
24	0.202	0.3049	0.0066	0.115	0.1736	0.0038	0.087	0.1313	0.0029	1.32
25	0.208	0.3139	0.0068	0.122	0.1841	0.0040	0.086	0.1298	0.0028	1.42
26	0.174	0.2626	0.0057	0.112	0.1690	0.0037	0.062	0.0936	0.0020	1.81
27	0.162	0.2445	0.0053	0.102	0.1539	0.0033	0.060	0.0906	0.0020	1.70
28	0.134	0.2022	0.0044	0.090	0.1358	0.0030	0.044	0.0664	0.0014	2.05
29	0.130	0.1962	0.0043	0.093	0.1404	0.0031	0.037	0.0558	0.0012	2.51
30	0.065	0.0981	0.0021	0.046	0.0694	0.0015	0.019	0.0287	0.0006	2.42
31	0.078	0.1177	0.0026	0.061	0.0921	0.0020	0.017	0.0257	0.0006	3.59

nd = no data
A = % of S2
B = mg/g Rock
C = (mg/g Rock)/TOC

TABLE 1-6

ALKANE AND ALKENE COMPONENT ANALYSIS FROM PYROLYSIS-GC

Well name: YOLLA 1 Date: 1985

Sample: 2300-2309m

Carbon No.	----Alkane + Alkene-----			---------Alkane---------			---------Alkene---------			Alkane/Alkene
	A	B	C	A	B	C	A	B	C	
1	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
2	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
3	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
4	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
5	1.745	0.4101	0.0540	0.366	0.0860	0.0113	1.379	0.3241	0.0426	0.27
6	2.621	0.6159	0.0810	0.738	0.1734	0.0228	1.883	0.4425	0.0582	0.39
7	1.689	0.3969	0.0522	0.655	0.1539	0.0203	1.034	0.2430	0.0320	0.63
8	1.311	0.3081	0.0405	0.517	0.1215	0.0160	0.794	0.1866	0.0246	0.65
9	1.047	0.2460	0.0324	0.400	0.0940	0.0124	0.647	0.1520	0.0200	0.62
10	0.865	0.2033	0.0267	0.292	0.0686	0.0090	0.573	0.1347	0.0177	0.51
11	1.284	0.3017	0.0397	0.317	0.0745	0.0098	0.967	0.2272	0.0299	0.33
12	0.754	0.1772	0.0233	0.310	0.0729	0.0096	0.444	0.1043	0.0137	0.70
13	0.566	0.1330	0.0175	0.262	0.0616	0.0081	0.304	0.0714	0.0094	0.86
14	0.505	0.1187	0.0156	0.242	0.0569	0.0075	0.263	0.0618	0.0081	0.92
15	0.485	0.1140	0.0150	0.193	0.0454	0.0060	0.292	0.0686	0.0090	0.66
16	0.379	0.0891	0.0117	0.180	0.0423	0.0056	0.199	0.0468	0.0062	0.90
17	0.332	0.0780	0.0103	0.128	0.0301	0.0040	0.204	0.0479	0.0063	0.63
18	0.301	0.0707	0.0093	0.136	0.0320	0.0042	0.165	0.0388	0.0051	0.82
19	0.443	0.1041	0.0137	0.209	0.0491	0.0065	0.234	0.0550	0.0072	0.89
20	0.292	0.0686	0.0090	0.144	0.0338	0.0045	0.148	0.0348	0.0046	0.97
21	0.327	0.0768	0.0101	0.163	0.0383	0.0050	0.164	0.0385	0.0051	0.99
22	0.338	0.0794	0.0105	0.158	0.0371	0.0049	0.180	0.0423	0.0056	0.88
23	0.320	0.0752	0.0099	0.168	0.0395	0.0052	0.152	0.0357	0.0047	1.11
24	0.337	0.0792	0.0104	0.188	0.0442	0.0058	0.149	0.0350	0.0046	1.26
25	0.287	0.0674	0.0089	0.167	0.0392	0.0052	0.120	0.0282	0.0037	1.39
26	0.263	0.0618	0.0081	0.167	0.0392	0.0052	0.096	0.0226	0.0030	1.74
27	0.250	0.0588	0.0077	0.150	0.0353	0.0046	0.100	0.0235	0.0031	1.50
28	0.214	0.0503	0.0066	0.139	0.0327	0.0043	0.075	0.0176	0.0023	1.85
29	0.206	0.0484	0.0064	0.146	0.0343	0.0045	0.060	0.0141	0.0019	2.43
30	0.128	0.0301	0.0040	0.087	0.0204	0.0027	0.041	0.0096	0.0013	2.12
31	0.118	0.0277	0.0036	0.089	0.0209	0.0028	0.029	0.0068	0.0009	3.07

nd = no data
A = % of S2
B = mg/g Rock
C = (mg/g Rock)/TOC

TABLE 1-7

ALKANE AND ALKENE COMPONENT ANALYSIS FROM PYROLYSIS-GC

Well name: YOLLA 1 Date: 1985

Sample: 2462-2471m

Carbon No.	----Alkane + Alkene-----			---------Alkane---------			---------Alkene---------			Alkane/Alkene
	A	B	C	A	B	C	A	B	C	
1	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
2	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
3	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
4	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
5	4.974	2.7049	0.1197	2.980	1.6205	0.0717	1.994	1.0843	0.0480	1.49
6	3.410	1.8544	0.0821	1.270	0.6906	0.0306	2.140	1.1637	0.0515	0.59
7	2.453	1.3339	0.0590	1.198	0.6515	0.0288	1.255	0.6825	0.0302	0.95
8	1.991	1.0824	0.0479	0.791	0.4299	0.0190	1.200	0.6526	0.0289	0.66
9	1.514	0.8233	0.0364	0.717	0.3899	0.0173	0.797	0.4334	0.0192	0.90
10	1.456	0.7918	0.0350	0.636	0.3459	0.0153	0.820	0.4459	0.0197	0.78
11	1.290	0.7015	0.0310	0.693	0.3769	0.0167	0.597	0.3246	0.0144	1.16
12	1.204	0.6547	0.0290	0.632	0.3437	0.0152	0.572	0.3111	0.0138	1.10
13	1.026	0.5579	0.0247	0.578	0.3143	0.0139	0.448	0.2436	0.0108	1.29
14	0.934	0.5079	0.0225	0.551	0.2996	0.0133	0.383	0.2083	0.0092	1.44
15	1.019	0.5541	0.0245	0.494	0.2686	0.0119	0.525	0.2855	0.0126	0.94
16	0.751	0.4084	0.0181	0.458	0.2491	0.0110	0.293	0.1593	0.0071	1.56
17	1.026	0.5579	0.0247	0.598	0.3252	0.0144	0.428	0.2327	0.0103	1.40
18	0.740	0.4024	0.0178	0.450	0.2447	0.0108	0.290	0.1577	0.0070	1.55
19	0.619	0.3366	0.0149	0.337	0.1833	0.0081	0.282	0.1534	0.0068	1.20
20	0.641	0.3486	0.0154	0.336	0.1827	0.0081	0.305	0.1659	0.0073	1.10
21	0.745	0.4051	0.0179	0.399	0.2170	0.0096	0.346	0.1882	0.0083	1.15
22	0.633	0.3442	0.0152	0.346	0.1882	0.0083	0.287	0.1561	0.0069	1.21
23	0.556	0.3024	0.0134	0.292	0.1588	0.0070	0.264	0.1436	0.0064	1.11
24	0.534	0.2904	0.0128	0.327	0.1778	0.0079	0.207	0.1126	0.0050	1.58
25	0.565	0.3072	0.0136	0.358	0.1947	0.0086	0.207	0.1126	0.0050	1.73
26	0.407	0.2213	0.0098	0.260	0.1414	0.0063	0.147	0.0799	0.0035	1.77
27	0.362	0.1969	0.0087	0.244	0.1327	0.0059	0.118	0.0642	0.0028	2.07
28	0.272	0.1479	0.0065	0.182	0.0990	0.0044	0.090	0.0489	0.0022	2.02
29	0.208	0.1131	0.0050	0.155	0.0843	0.0037	0.053	0.0288	0.0013	2.92
30	0.072	0.0392	0.0017	0.072	0.0392	0.0017	nd	nd	nd	nd
31	0.118	0.0642	0.0028	0.118	0.0642	0.0028	nd	nd	nd	nd

nd = no data
A = % of S2
B = mg/g Rock
C = (mg/g Rock)/TOC

TABLE 1-8

ALKANE AND ALKENE COMPONENT ANALYSIS FROM PYROLYSIS-GC

Well name: YOLLA 1 Date: 1985

Sample: 2517-2526m

Carbon No.	----Alkane + Alkene-----			---------Alkane---------			---------Alkene---------			Alkane/Alkene
	A	B	C	A	B	C	A	B	C	
1	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
2	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
3	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
4	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
5	1.899	0.1519	0.0086	1.185	0.0948	0.0053	0.714	0.0571	0.0032	1.66
6	1.065	0.0852	0.0048	0.520	0.0416	0.0023	0.545	0.0436	0.0025	0.95
7	0.806	0.0645	0.0036	0.460	0.0368	0.0021	0.346	0.0277	0.0016	1.33
8	0.611	0.0489	0.0028	0.374	0.0299	0.0017	0.237	0.0190	0.0011	1.58
9	0.455	0.0364	0.0021	0.255	0.0204	0.0011	0.200	0.0160	0.0009	1.28
10	0.386	0.0309	0.0017	0.223	0.0178	0.0010	0.163	0.0130	0.0007	1.37
11	0.337	0.0270	0.0015	0.198	0.0158	0.0009	0.139	0.0111	0.0006	1.42
12	0.313	0.0250	0.0014	0.172	0.0138	0.0008	0.141	0.0113	0.0006	1.22
13	0.266	0.0213	0.0012	0.161	0.0129	0.0007	0.105	0.0084	0.0005	1.53
14	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
15	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
16	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
17	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
18	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
19	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
20	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
21	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
22	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
23	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
24	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
25	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
26	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
27	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
28	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
29	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
30	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
31	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd

nd = no data
A = % of S2
B = mg/g Rock
C = (mg/g Rock)/TOC

TABLE 1-9

ALKANE AND ALKENE COMPONENT ANALYSIS FROM PYROLYSIS-GC

Well name: YOLLA 1 Date: 1985

Sample: 2573-2582m

Carbon No.	----Alkane + Alkene-----			---------Alkane---------			---------Alkene---------			Alkane/Alkene
	A	B	C	A	B	C	A	B	C	
1	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
2	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
3	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
4	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
5	1.795	1.9921	0.0424	0.856	0.9500	0.0202	0.939	1.0421	0.0222	0.91
6	1.591	1.7657	0.0376	0.520	0.5771	0.0123	1.071	1.1886	0.0253	0.49
7	1.097	1.2175	0.0259	0.463	0.5138	0.0109	0.634	0.7036	0.0150	0.73
8	0.924	1.0255	0.0218	0.453	0.5027	0.0107	0.471	0.5227	0.0111	0.96
9	0.764	0.8479	0.0180	0.338	0.3751	0.0080	0.426	0.4728	0.0101	0.79
10	0.721	0.8002	0.0170	0.311	0.3451	0.0073	0.410	0.4550	0.0097	0.76
11	0.778	0.8634	0.0184	0.398	0.4417	0.0094	0.380	0.4217	0.0090	1.05
12	0.759	0.8423	0.0179	0.376	0.4173	0.0089	0.383	0.4251	0.0090	0.98
13	0.524	0.5815	0.0124	0.267	0.2963	0.0063	0.257	0.2852	0.0061	1.04
14	0.464	0.5149	0.0110	0.268	0.2974	0.0063	0.196	0.2175	0.0046	1.37
15	0.383	0.4251	0.0090	0.209	0.2319	0.0049	0.174	0.1931	0.0041	1.20
16	0.329	0.3651	0.0078	0.200	0.2220	0.0047	0.129	0.1432	0.0030	1.55
17	0.252	0.2797	0.0060	0.132	0.1465	0.0031	0.120	0.1332	0.0028	1.10
18	0.319	0.3540	0.0075	0.185	0.2053	0.0044	0.134	0.1487	0.0032	1.38
19	0.334	0.3707	0.0079	0.186	0.2064	0.0044	0.148	0.1643	0.0035	1.26
20	0.450	0.4994	0.0106	0.234	0.2597	0.0055	0.216	0.2397	0.0051	1.08
21	0.455	0.5050	0.0107	0.283	0.3141	0.0067	0.172	0.1909	0.0041	1.65
22	0.487	0.5405	0.0115	0.262	0.2908	0.0062	0.225	0.2497	0.0053	1.16
23	0.434	0.4817	0.0102	0.260	0.2885	0.0061	0.174	0.1931	0.0041	1.49
24	0.375	0.4162	0.0089	0.244	0.2708	0.0058	0.131	0.1454	0.0031	1.86
25	0.385	0.4273	0.0091	0.253	0.2808	0.0060	0.132	0.1465	0.0031	1.92
26	0.328	0.3640	0.0077	0.220	0.2442	0.0052	0.108	0.1199	0.0026	2.04
27	0.306	0.3396	0.0072	0.208	0.2308	0.0049	0.098	0.1088	0.0023	2.12
28	0.254	0.2819	0.0060	0.159	0.1765	0.0038	0.095	0.1054	0.0022	1.67
29	0.218	0.2419	0.0051	0.147	0.1631	0.0035	0.071	0.0788	0.0017	2.07
30	0.153	0.1698	0.0036	0.077	0.0855	0.0018	0.076	0.0843	0.0018	1.01
31	0.122	0.1354	0.0029	0.091	0.1010	0.0021	0.031	0.0344	0.0007	2.94

nd = no data
A = % of S2
B = mg/g Rock
C = (mg/g Rock)/TOC

TABLE 1-10

ALKANE AND ALKENE COMPONENT ANALYSIS FROM PYROLYSIS-GC

Well name: YOLLA 1 Date: 1985

Sample: 3007-3016m

Carbon No.	----Alkane + Alkene-----			---------Alkane---------			---------Alkene---------			Alkane/Alkene
	A	B	C	A	B	C	A	B	C	
1	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
2	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
3	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
4	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
5	1.905	0.2385	0.0367	0.877	0.1098	0.0169	1.028	0.1287	0.0198	0.85
6	1.822	0.2281	0.0351	0.713	0.0893	0.0137	1.109	0.1388	0.0214	0.64
7	1.380	0.1728	0.0266	0.660	0.0826	0.0127	0.720	0.0901	0.0139	0.92
8	1.079	0.1351	0.0208	0.558	0.0699	0.0107	0.521	0.0652	0.0100	1.07
9	0.917	0.1148	0.0177	0.441	0.0552	0.0085	0.476	0.0596	0.0092	0.93
10	0.867	0.1085	0.0167	0.408	0.0511	0.0079	0.459	0.0575	0.0088	0.89
11	0.821	0.1028	0.0158	0.384	0.0481	0.0074	0.437	0.0547	0.0084	0.88
12	0.720	0.0901	0.0139	0.333	0.0417	0.0064	0.387	0.0485	0.0075	0.86
13	0.724	0.0906	0.0139	0.384	0.0481	0.0074	0.340	0.0426	0.0065	1.13
14	0.857	0.1073	0.0165	0.557	0.0697	0.0107	0.300	0.0376	0.0058	1.86
15	0.651	0.0815	0.0125	0.339	0.0424	0.0065	0.312	0.0391	0.0060	1.09
16	0.650	0.0814	0.0125	0.355	0.0444	0.0068	0.295	0.0369	0.0057	1.20
17	0.572	0.0716	0.0110	0.315	0.0394	0.0061	0.257	0.0322	0.0050	1.23
18	0.461	0.0577	0.0089	0.283	0.0354	0.0055	0.178	0.0223	0.0034	1.59
19	0.423	0.0530	0.0081	0.248	0.0310	0.0048	0.175	0.0219	0.0034	1.42
20	0.386	0.0483	0.0074	0.242	0.0303	0.0047	0.144	0.0180	0.0028	1.68
21	0.426	0.0533	0.0082	0.270	0.0338	0.0052	0.156	0.0195	0.0030	1.73
22	0.342	0.0428	0.0066	0.209	0.0262	0.0040	0.133	0.0167	0.0026	1.57
23	0.331	0.0414	0.0064	0.189	0.0237	0.0036	0.142	0.0178	0.0027	1.33
24	0.225	0.0282	0.0043	0.138	0.0173	0.0027	0.087	0.0109	0.0017	1.59
25	0.218	0.0273	0.0042	0.158	0.0198	0.0030	0.060	0.0075	0.0012	2.63
26	0.148	0.0185	0.0029	0.100	0.0125	0.0019	0.048	0.0060	0.0009	2.08
27	0.106	0.0133	0.0020	0.073	0.0091	0.0014	0.033	0.0041	0.0006	2.21
28	0.084	0.0105	0.0016	0.060	0.0075	0.0012	0.024	0.0030	0.0005	2.50
29	0.045	0.0056	0.0009	0.031	0.0039	0.0006	0.014	0.0018	0.0003	2.21
30	0.031	0.0039	0.0006	0.024	0.0030	0.0005	0.007	0.0009	0.0001	3.43
31	0.011	0.0014	0.0002	0.011	0.0014	0.0002	nd	nd	nd	nd

nd = no data
A = % of S2
B = mg/g Rock
C = (mg/g Rock)/TOC

TABLE 2

Summary of Extraction and Liquid Chromatography

Wellname: YOLLA 1

Date of Job: DECEMBER 1985

A. Concentrations of Extracted Material

				-------Hydrocarbons--------			-----Nonhydrocarbons-----		
Depth(m)	Weight of Rock Extd. (grams)	Total Extract (ppm)	Loss on Column (ppm)	Saturates (ppm)	Aromatics (ppm)	HC Total (ppm)	NSO's (ppm)	Asphaltenes (ppm)	NonHC Total (ppm)
1785.0 swc	8.5	1482.4	458.8	247.1	223.5	470.6	552.9	nd	552.9
1958.0-1967.0	47.0	2574.5	896.5	605.5	478.9	1084.3	593.6	nd	593.6
2021.0-2030.0	49.0	2091.8	492.0	544.4	558.7	1103.1	496.7	nd	496.7
2075.0-2084.0	42.0	1811.9	428.6	371.4	511.9	883.3	500.0	nd	500.0
2174.0-2183.0	24.7	9882.6	1926.6	1810.2	3173.4	4983.6	2972.3	nd	2972.3
2300.0-2309.0	42.9	2463.9	488.6	681.0	722.5	1403.5	571.8	nd	571.8
2462.0-2471.0	35.6	6233.1	1342.8	2228.3	1262.0	3490.3	1400.1	nd	1400.1
2517.0-2526.0	33.1	3081.6	964.0	763.3	955.3	1718.6	398.9	nd	398.9
2573.0-2582.0	20.1	7338.3	2364.1	2080.3	1555.1	3635.4	1338.8	nd	1338.8
3007.0-3016.0	38.2	2646.6	721.1	664.4	566.0	1230.4	695.2	nd	695.2

TABLE 2

Summary of Extraction and Liquid Chromatography

Wellname: YOLLA 1

Date of Job: DECEMBER 1985

B. Compositional Data

	-----Hydrocarbons------			-----Nonhydrocarbons------			EOM(mg)	SAT(mg)	SAT	ASPH	HC
Depth(m)	%SAT.	%AROM.	%HC's	%NSO's	%ASPH.	%Non HC's	TOC(g)	TOC(g)	AROM	NSO	Non HC
1785.0 swc	24.1	21.8	46.0	54.0	nd	54.0	28.5	4.8	1.11	nd	.9
1958.0-1967.0	36.1	28.5	64.6	35.4	nd	35.4	31.8	7.5	1.26	nd	1.8
2021.0-2030.0	34.0	34.9	69.0	31.0	nd	31.0	24.6	6.4	.97	nd	2.2
2075.0-2084.0	26.9	37.0	63.9	36.1	nd	36.1	19.6	4.0	.73	nd	1.8
2174.0-2183.0	22.8	39.9	62.6	37.4	nd	37.4	21.5	3.9	.57	nd	1.7
2300.0-2309.0	34.5	36.6	71.1	28.9	nd	28.9	32.4	9.0	.94	nd	2.5
2462.0-2471.0	45.6	25.8	71.4	28.6	nd	28.6	27.6	9.9	1.77	nd	2.5
2517.0-2526.0	36.0	45.1	81.2	18.8	nd	18.8	17.4	4.3	.80	nd	4.3
2573.0-2582.0	41.8	31.3	73.1	26.9	nd	26.9	15.6	4.4	1.34	nd	2.7
3007.0-3016.0	34.5	29.4	63.9	36.1	nd	36.1	40.7	10.2	1.17	nd	1.8

na = not applicable nd = no data

TABLE 2-1

PARAMETER SUMMARY FOR PYROLYSIS GAS CHROMATOGRAPHY

Well name: YOLLA 1 Date: 1985

Sample: 1785m SWC

Parameter	Value			
	A	B	C	D
C1-C4 abundance (all compounds)	40.91	2.692	0.518	
C5-C8 abundance (all compounds)	22.58	1.486	0.286	
C5-C8 abundance (alkanes+alkenes)	6.48	0.427	0.082	
C9-C14 abundance (all compounds)	23.26	1.531	0.294	
C9-C14 abundance (alkanes+alkenes)	5.74	0.377	0.073	
15-C31 abundance (all compounds)	13.24	0.871	0.168	
C15-C31 abundance (alkanes+alkenes)	6.84	0.450	0.087	
C5-C31 abundance (all compounds)	59.09	3.888	0.748	
C5-C31 abundance (alkanes+alkenes)	19.06	1.254	0.241	
C5-C31 alkane abundance	8.37	0.551	0.106	
C5-C31 alkene abundance	10.69	0.703	0.135	
C5-C8 alkane/alkene				0.506
C9-C14 alkane/alkene				0.852
C15-C31 alkane/alkene				1.081
C5-C31 alkane/alkene				0.783
C1-C4 abundance/S2				0.409
C5-C31 abundance/S2				0.591
(C1-C5)/C5+ abundance				0.879
R	47.22	3.107	0.598	
PI x PC x TOC				0.293

nd = no data
A = % of S2
B = mg/g Rock
C = (mg/g Rock)/TOC
D = (no units)
R = [(C1-C4)+(Proportion alkenes x (C5-C31))]
N.B. C1-C4 and C5-C31 are for all compounds
PI = Production index
PC = Pyrolysable carbon
S2 = Rock-Eval S2 value
TOC = Total Organic Carbon

TABLE 2-2

PARAMETER SUMMARY FOR PYROLYSIS GAS CHROMATOGRAPHY

Well name: YOLLA 1 Date: 1985

Sample: 1958-1967m

Parameter	Value			
	A	B	C	D
C1-C4 abundance (all compounds)	50.79	10.432	1.288	
C5-C8 abundance (all compounds)	18.81	3.863	0.477	
C5-C8 abundance (alkanes+alkenes)	6.14	1.261	0.156	
C9-C14 abundance (all compounds)	22.65	4.653	0.574	
C9-C14 abundance (alkanes+alkenes)	4.16	0.854	0.105	
C15-C31 abundance (all compounds)	7.75	1.592	0.197	
C15-C31 abundance (alkanes+alkenes)	3.52	0.722	0.089	
C5-C31 abundance (all compounds)	49.21	10.108	1.248	
C5-C31 abundance (alkanes+alkenes)	13.81	2.838	0.350	
C5-C31 alkane abundance	5.69	1.168	0.144	
C5-C31 alkene abundance	8.13	1.670	0.206	
C5-C8 alkane/alkene				0.519
C9-C14 alkane/alkene				0.630
C15-C31 alkane/alkene				1.288
C5-C31 alkane/alkene				0.699
C1-C4 abundance/S2				0.508
C5-C31 abundance/S2				0.492
(C1-C5)/C5+ abundance				1.269
R	54.79	11.254	1.389	
PI x PC x TOC				1.217

nd = no data
A = % of S2
B = mg/g Rock
C = (mg/g Rock)/TOC
D = (no units)
R = [(C1-C4)+(Proportion alkenes x (C5-C31))]
N.B. C1-C4 and C5-C31 are for all compounds
PI = Production index
PC = Pyrolysable carbon
S2 = Rock-Eval S2 value
TOC = Total Organic Carbon

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TABLE 2-3

PARAMETER SUMMARY FOR PYROLYSIS GAS CHROMATOGRAPHY

Well name: YOLLA 1 Date: 1985

Sample: 2021-2030m

Parameter	Value			
	A	B	C	D
C1-C4 abundance (all compounds)	47.27	11.368	1.337	
C5-C8 abundance (all compounds)	16.32	3.926	0.462	
C5-C8 abundance (alkanes+alkenes)	6.93	1.667	0.196	
C9-C14 abundance (all compounds)	22.30	5.364	0.631	
C9-C14 abundance (alkanes+alkenes)	4.69	1.129	0.133	
C15-C31 abundance (all compounds)	14.10	3.392	0.399	
C15-C31 abundance (alkanes+alkenes)	7.78	1.871	0.220	
C5-C31 abundance (all compounds)	52.73	12.682	1.492	
C5-C31 abundance (alkanes+alkenes)	19.40	4.667	0.549	
C5-C31 alkane abundance	8.43	2.027	0.238	
C5-C31 alkene abundance	10.98	2.640	0.311	
C5-C8 alkane/alkene				0.558
C9-C14 alkane/alkene				0.719
C15-C31 alkane/alkene				1.050
C5-C31 alkane/alkene				0.768
C1-C4 abundance/S2				0.473
C5-C31 abundance/S2				0.527
(C1-C5)/C5+ abundance				1.094
R	53.05	12.760	1.501	
PI x PC x TOC				1.016

nd = no data
A = % of S2
B = mg/g Rock
C = (mg/g Rock)/TOC
D = (no units)
R = [(C1-C4)+(Proportion alkenes x (C5-C31))]
N.B. C1-C4 and C5-C31 are for all compounds
PI = Production index
PC = Pyrolysable carbon
S2 = Rock-Eval S2 value
TOC = Total Organic Carbon

TABLE 2-4

PARAMETER SUMMARY FOR PYROLYSIS GAS CHROMATOGRAPHY

Well name: YOLLA 1 Date: 1985

Sample: 2075-2084m

Parameter	Value			
	A	B	C	D
C1-C4 abundance (all compounds)	50.78	11.441	1.237	
C5-C8 abundance (all compounds)	18.00	4.056	0.438	
C5-C8 abundance (alkanes+alkenes)	4.86	1.095	0.118	
C9-C14 abundance (all compounds)	22.79	5.134	0.555	
C9-C14 abundance (alkanes+alkenes)	3.09	0.695	0.075	
C15-C31 abundance (all compounds)	8.43	1.900	0.205	
C15-C31 abundance (alkanes+alkenes)	3.23	0.728	0.079	
C5-C31 abundance (all compounds)	49.22	11.090	1.199	
C5-C31 abundance (alkanes+alkenes)	11.18	2.518	0.272	
C5-C31 alkane abundance	4.79	1.079	0.117	
C5-C31 alkene abundance	6.39	1.439	0.156	
C5-C8 alkane/alkene				0.483
C9-C14 alkane/alkene				1.079
C15-C31 alkane/alkene				0.985
C5-C31 alkane/alkene				0.749
C1-C4 abundance/S2				0.508
C5-C31 abundance/S2				0.492
(C1-C5)/C5+ abundance				1.339
R	53.92	12.149	1.313	
PI x PC x TOC				0.837

nd = no data
A = % of S2
B = mg/g Rock
C = (mg/g Rock)/TOC
D = (no units)
R = [(C1-C4)+(Proportion alkenes x (C5-C31))]
N.B. C1-C4 and C5-C31 are for all compounds
PI = Production index
PC = Pyrolysable carbon
S2 = Rock-Eval S2 value
TOC = Total Organic Carbon

TABLE 2-5

PARAMETER SUMMARY FOR PYROLYSIS GAS CHROMATOGRAPHY

Well name: YOLLA 1 Date: 1985

Sample: 2174-2183m

Parameter	Value			
	A	B	C	D
C1-C4 abundance (all compounds)	60.96	91.996	2.000	
C5-C8 abundance (all compounds)	16.47	24.852	0.540	
C5-C8 abundance (alkanes+alkenes)	6.64	10.015	0.218	
C9-C14 abundance (all compounds)	16.43	24.795	0.539	
C9-C14 abundance (alkanes+alkenes)	4.07	6.148	0.134	
C15-C31 abundance (all compounds)	6.15	9.277	0.202	
C15-C31 abundance (alkanes+alkenes)	2.77	4.184	0.091	
C5-C31 abundance (all compounds)	39.04	58.924	1.281	
C5-C31 abundance (alkanes+alkenes)	13.48	20.347	0.442	
C5-C31 alkane abundance	5.38	8.126	0.177	
C5-C31 alkene abundance	8.10	12.222	0.266	
C5-C8 alkane/alkene				0.536
C9-C14 alkane/alkene				0.656
C15-C31 alkane/alkene				1.102
C5-C31 alkane/alkene				0.665
C1-C4 abundance/S2				0.610
C5-C31 abundance/S2				0.390
(C1-C5)/C5+ abundance				1.947
R	64.12	96.768	2.104	
PI x PC x TOC				55.81

nd = no data
A = % of S2
B = mg/g Rock
C = (mg/g Rock)/TOC
D = (no units)
R = [(C1-C4)+(Proportion alkenes x (C5-C31))]
N.B. C1-C4 and C5-C31 are for all compounds
PI = Production index
PC = Pyrolysable carbon
S2 = Rock-Eval S2 value
TOC = Total Organic Carbon

TABLE 2-6

PARAMETER SUMMARY FOR PYROLYSIS GAS CHROMATOGRAPHY

Well name: YOLLA 1 Date: 1985

Sample: 2300-2309m

Parameter	Value			
	A	B	C	D
C1-C4 abundance (all compounds)	53.17	12.494	1.644	
C5-C8 abundance (all compounds)	20.47	4.811	0.633	
C5-C8 abundance (alkanes+alkenes)	7.37	1.731	0.228	
C9-C14 abundance (all compounds)	16.67	3.918	0.515	
C9-C14 abundance (alkanes+alkenes)	5.02	1.180	0.155	
C15-C31 abundance (all compounds)	9.69	2.277	0.300	
C15-C31 abundance (alkanes+alkenes)	5.02	1.180	0.155	
C5-C31 abundance (all compounds)	46.83	11.006	1.448	
C5-C31 abundance (alkanes+alkenes)	17.41	4.091	0.538	
C5-C31 alkane abundance	6.71	1.577	0.208	
C5-C31 alkene abundance	10.70	2.514	0.331	
C5-C8 alkane/alkene				0.447
C9-C14 alkane/alkene				0.570
C15-C31 alkane/alkene				1.085
C5-C31 alkane/alkene				0.627
C1-C4 abundance/S2				0.532
C5-C31 abundance/S2				0.468
(C1-C5)/C5+ abundance				1.491
R	58.18	13.672	1.799	
PI x PC x TOC				0.858

nd = no data
A = % of S2
B = mg/g Rock
C = (mg/g Rock)/TOC
D = (no units)
R = [(C1-C4)+(Proportion alkenes x (C5-C31))]
N.B. C1-C4 and C5-C31 are for all compounds
PI = Production index
PC = Pyrolysable carbon
S2 = Rock-Eval S2 value
TOC = Total Organic Carbon

TABLE 2-7

PARAMETER SUMMARY FOR PYROLYSIS GAS CHROMATOGRAPHY

Well name: YOLLA 1 Date: 1985

Sample: 2462-2471m

Parameter	Value			
	A	B	C	D
C1-C4 abundance (all compounds)	58.49	31.805	1.407	
C5-C8 abundance (all compounds)	14.23	7.738	0.342	
C5-C8 abundance (alkanes+alkenes)	12.83	6.976	0.309	
C9-C14 abundance (all compounds)	16.99	9.240	0.409	
C9-C14 abundance (alkanes+alkenes)	7.42	4.037	0.179	
C15-C31 abundance (all compounds)	10.29	5.597	0.248	
C15-C31 abundance (alkanes+alkenes)	9.27	5.040	0.223	
C5-C31 abundance (all compounds)	41.51	22.575	0.999	
C5-C31 abundance (alkanes+alkenes)	29.52	16.053	0.710	
C5-C31 alkane abundance	15.47	8.413	0.372	
C5-C31 alkene abundance	14.05	7.639	0.338	
C5-C8 alkane/alkene				0.947
C9-C14 alkane/alkene				1.053
C15-C31 alkane/alkene				1.412
C5-C31 alkane/alkene				1.101
C1-C4 abundance/S2				0.585
C5-C31 abundance/S2				0.415
(C1-C5)/C5+ abundance				1.702
R	64.32	34.977	1.548	
PI x PC x TOC				11.27

nd = no data
A = % of S2
B = mg/g Rock
C = (mg/g Rock)/TOC
D = (no units)
R = [(C1-C4)+(Proportion alkenes x (C5-C31))]
N.B. C1-C4 and C5-C31 are for all compounds
PI = Production index
PC = Pyrolysable carbon
S2 = Rock-Eval S2 value
TOC = Total Organic Carbon

TABLE 2-8

PARAMETER SUMMARY FOR PYROLYSIS GAS CHROMATOGRAPHY

Well name: YOLLA 1 Date: 1985

Sample: 2517-2526m

Parameter	Value			
	A	B	C	D
C1-C4 abundance (all compounds)	62.18	4.975	0.280	
C5-C8 abundance (all compounds)	12.00	0.960	0.054	
C5-C8 abundance (alkanes+alkenes)	4.38	0.350	0.020	
C9-C14 abundance (all compounds)	10.98	0.879	0.049	
C9-C14 abundance (alkanes+alkenes)	1.76	0.141	0.008	
C15-C31 abundance (all compounds)	14.84	1.187	0.067	
C15-C31 abundance (alkanes+alkenes)	nd	nd	nd	
C5-C31 abundance (all compounds)	37.82	3.025	0.170	
C5-C31 abundance (alkanes+alkenes)	6.14	0.491	0.028	
C5-C31 alkane abundance	3.55	0.284	0.016	
C5-C31 alkene abundance	2.59	0.207	0.012	
C5-C8 alkane/alkene				1.378
C9-C14 alkane/alkene				1.349
C15-C31 alkane/alkene				*****
C5-C31 alkane/alkene				1.370
C1-C4 abundance/S2				0.622
C5-C31 abundance/S2				0.378
(C1-C5)/C5+ abundance				1.842
R	63.16	5.053	0.285	
PI x PC x TOC				4.096

nd = no data
A = % of S2
B = mg/g Rock
C = (mg/g Rock)/TOC
D = (no units)
R = [(C1-C4)+(Proportion alkenes x (C5-C31))]
N.B. C1-C4 and C5-C31 are for all compounds
PI = Production index
PC = Pyrolysable carbon
S2 = Rock-Eval S2 value
TOC = Total Organic Carbon

TABLE 2-9

PARAMETER SUMMARY FOR PYROLYSIS GAS CHROMATOGRAPHY

Well name: YOLLA 1 Date: 1985

Sample: 2573-2582m

Parameter	Value			
	A	B	C	D
C1-C4 abundance (all compounds)	53.13	58.967	1.255	
C5-C8 abundance (all compounds)	15.27	16.949	0.361	
C5-C8 abundance (alkanes+alkenes)	5.41	6.001	0.128	
C9-C14 abundance (all compounds)	19.39	21.521	0.458	
C9-C14 abundance (alkanes+alkenes)	4.01	4.450	0.095	
C15-C31 abundance (all compounds)	12.20	13.544	0.288	
C15-C31 abundance (alkanes+alkenes)	5.58	6.197	0.132	
C5-C31 abundance (all compounds)	46.87	52.014	1.107	
C5-C31 abundance (alkanes+alkenes)	15.00	16.648	0.354	
C5-C31 alkane abundance	7.60	8.434	0.179	
C5-C31 alkene abundance	7.40	8.214	0.175	
C5-C8 alkane/alkene				0.736
C9-C14 alkane/alkene				0.954
C15-C31 alkane/alkene				1.500
C5-C31 alkane/alkene				1.027
C1-C4 abundance/S2				0.531
C5-C31 abundance/S2				0.469
(C1-C5)/C5+ abundance				1.380
R	56.60	62.817	1.337	
PI x PC x TOC				38.23

nd = no data
A = % of S2
B = mg/g Rock
C = (mg/g Rock)/TOC
D = (no units)
R = [(C1-C4)+(Proportion alkenes x (C5-C31))]
N.B. C1-C4 and C5-C31 are for all compounds
PI = Production index
PC = Pyrolysable carbon
S2 = Rock-Eval S2 value
TOC = Total Organic Carbon

TABLE 2-10

PARAMETER SUMMARY FOR PYROLYSIS GAS CHROMATOGRAPHY

Well name: YOLLA 1 Date: 1985

Sample: 3007-3016m

Parameter	Value			
	A	B	C	D
C1-C4 abundance (all compounds)	54.74	6.854	1.054	
C5-C8 abundance (all compounds)	18.27	2.287	0.352	
C5-C8 abundance (alkanes+alkenes)	6.19	0.774	0.119	
C9-C14 abundance (all compounds)	15.99	2.002	0.308	
C9-C14 abundance (alkanes+alkenes)	4.91	0.614	0.094	
C15-C31 abundance (all compounds)	11.00	1.377	0.212	
C15-C31 abundance (alkanes+alkenes)	5.11	0.640	0.098	
C5-C31 abundance (all compounds)	45.26	5.666	0.872	
C5-C31 abundance (alkanes+alkenes)	16.20	2.028	0.312	
C5-C31 alkane abundance	8.36	1.047	0.161	
C5-C31 alkene abundance	7.84	0.982	0.151	
C5-C8 alkane/alkene				0.831
C9-C14 alkane/alkene				1.045
C15-C31 alkane/alkene				1.475
C5-C31 alkane/alkene				1.066
C1-C4 abundance/S2				0.547
C5-C31 abundance/S2				0.453
(C1-C5)/C5+ abundance				1.490
R	58.29	7.298	1.123	
PI x PC x TOC				0.917

nd = no data
A = % of S2
B = mg/g Rock
C = (mg/g Rock)/TOC
D = (no units)
R = [(C1-C4)+(Proportion alkenes x (C5-C31))]
N.B. C1-C4 and C5-C31 are for all compounds
PI = Production index
PC = Pyrolysable carbon
S2 = Rock-Eval S2 value
TOC = Total Organic Carbon

TABLE 3

Summary of Gas Chromatography Data

Wellname: YOLLA 1

Date of Job:DECEMBER 1985

A. Alkane Compositional Data

Depth(m)	Prist./Phyt.	Prist./n-C17	Phyt./n-C18	CPI(1)	CPI(2)	(C21+C22)/(C28+C29)
1785.0 swc	7.79	3.35	.68	1.52	1.56	1.94
1958.0-1967.0	10.25	4.39	.48	1.31	1.35	1.93
2021.0-2030.0	7.88	1.71	.20	1.34	1.33	7.72
075.0-2084.0	10.50	6.18	.63	1.30	1.28	.79
2174.0-2183.0	12.78	6.53	.67	1.39	1.39	.90
2300.0-2309.0	11.26	8.44	.87	1.12	1.17	.64
2462.0-2471.0	7.93	1.92	.29	1.15	1.12	1.34
2517.0-2526.0	3.86	.43	.12	1.05	1.03	6.53
2573.0-2582.0	10.30	1.78	.21	1.17	1.15	2.47
3007.0-3016.0	6.88	.96	.14	1.06	1.05	6.57

TABLE 3

Summary of Gas Chromatography Data

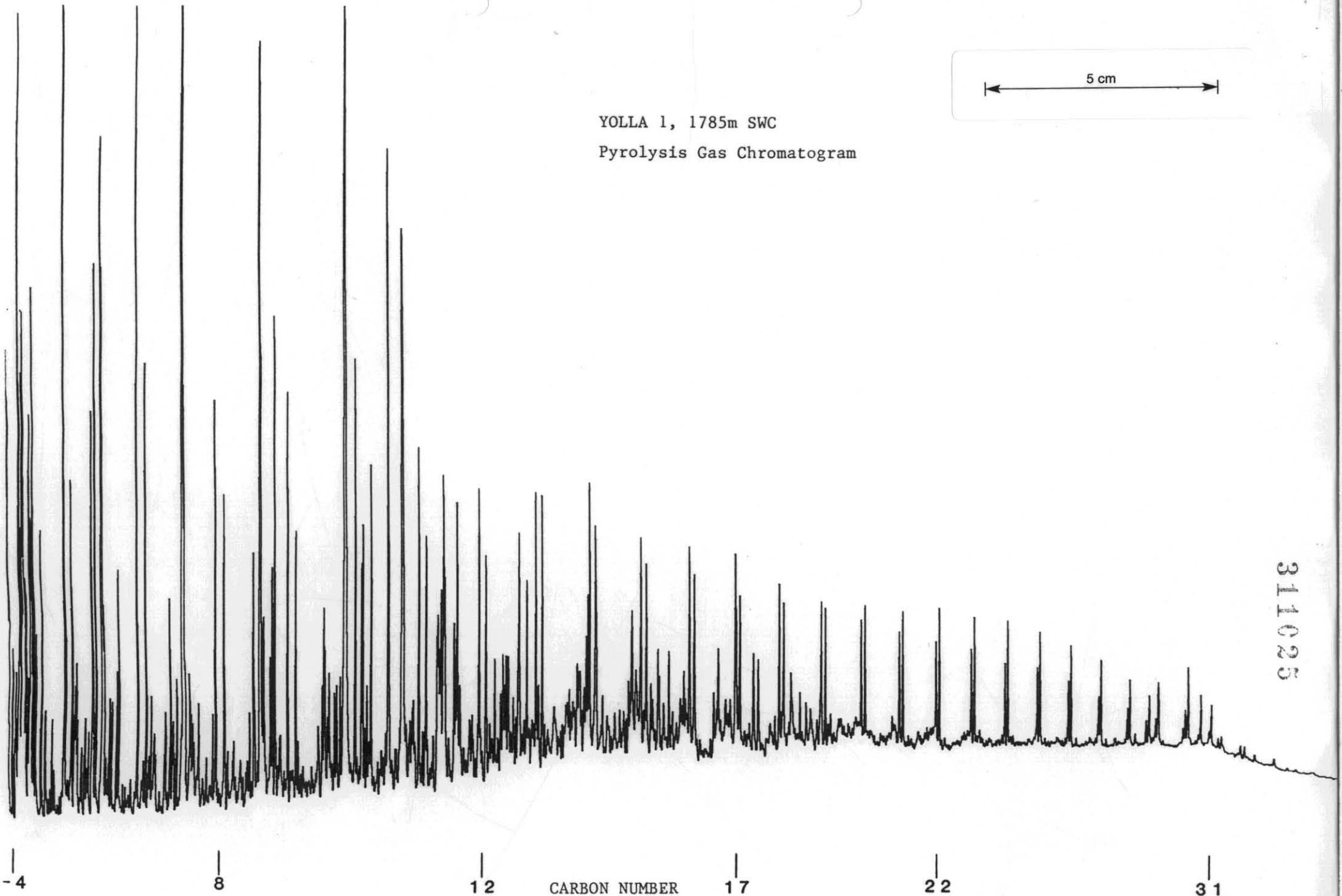
Wellname: YOLLA 1

Date of Job:DECEMBER 1985

B. n-Alkane Distributions

EPTH(m)	nC12	nC13	nC14	nC15	nC16	nC17	iC19	nC18	iC20	nC19	nC20	nC21	nC22	nC23	nC24	nC25	nC26	nC27	nC28	nC29	nC30	nC31
1785.0 swc	15.4	13.3	11.4	9.7	6.1	4.2	14.2	2.7	1.8	2.2	1.8	1.9	2.0	2.5	1.9	2.6	1.4	1.8	.8	1.2	.7	.4
1958.0-1967.0	7.8	7.5	7.1	5.3	5.1	5.5	24.1	4.9	2.4	4.3	3.5	2.9	2.4	2.5	2.5	3.3	2.2	2.9	1.4	1.4	.8	.2
2021.0-2030.0	5.2	5.7	5.6	6.0	6.1	7.7	13.2	8.2	1.7	8.3	7.4	6.2	4.6	3.5	2.6	2.7	1.7	1.9	.7	.7	.3	.2
2075.0-2084.0	6.9	6.0	5.0	4.1	3.2	3.0	18.6	2.8	1.8	2.8	2.8	3.2	3.4	3.9	4.2	5.1	4.6	6.7	3.7	4.6	2.1	1.4
2174.0-2183.0	3.0	3.7	3.3	4.1	2.7	3.3	21.7	2.5	1.7	2.9	2.9	3.5	3.9	4.5	4.7	5.9	5.2	9.4	4.1	4.1	1.9	1.1
2300.0-2309.0	3.6	3.4	2.9	3.2	2.2	2.5	21.3	2.2	1.9	2.5	2.7	3.2	3.6	4.4	4.8	6.0	5.7	7.4	5.2	5.4	4.0	2.0
2462.0-2471.0	2.7	3.4	3.9	4.5	3.9	4.3	8.3	3.6	1.1	4.1	4.1	4.8	5.5	6.3	7.1	7.8	6.9	7.8	4.3	3.4	1.3	.7
2517.0-2526.0	8.6	8.6	8.7	8.1	7.3	7.3	3.2	7.0	.8	6.6	6.0	5.5	4.9	4.4	3.7	3.2	2.4	1.8	1.0	.6	.2	.1
2573.0-2582.0	3.9	4.9	5.3	5.8	4.7	5.2	9.3	4.2	.9	4.8	4.6	5.2	5.7	6.2	6.3	6.8	5.3	5.4	2.5	1.9	.6	.3
3007.0-3016.0	6.4	6.6	6.4	6.6	6.1	6.6	6.3	6.7	.9	6.7	6.5	6.2	5.9	5.5	4.8	4.1	3.0	2.2	1.2	.7	.3	.1

na = not applicable nd = no data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Pyrolysis Gas Chromatogram
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8
12
CARBON NUMBER
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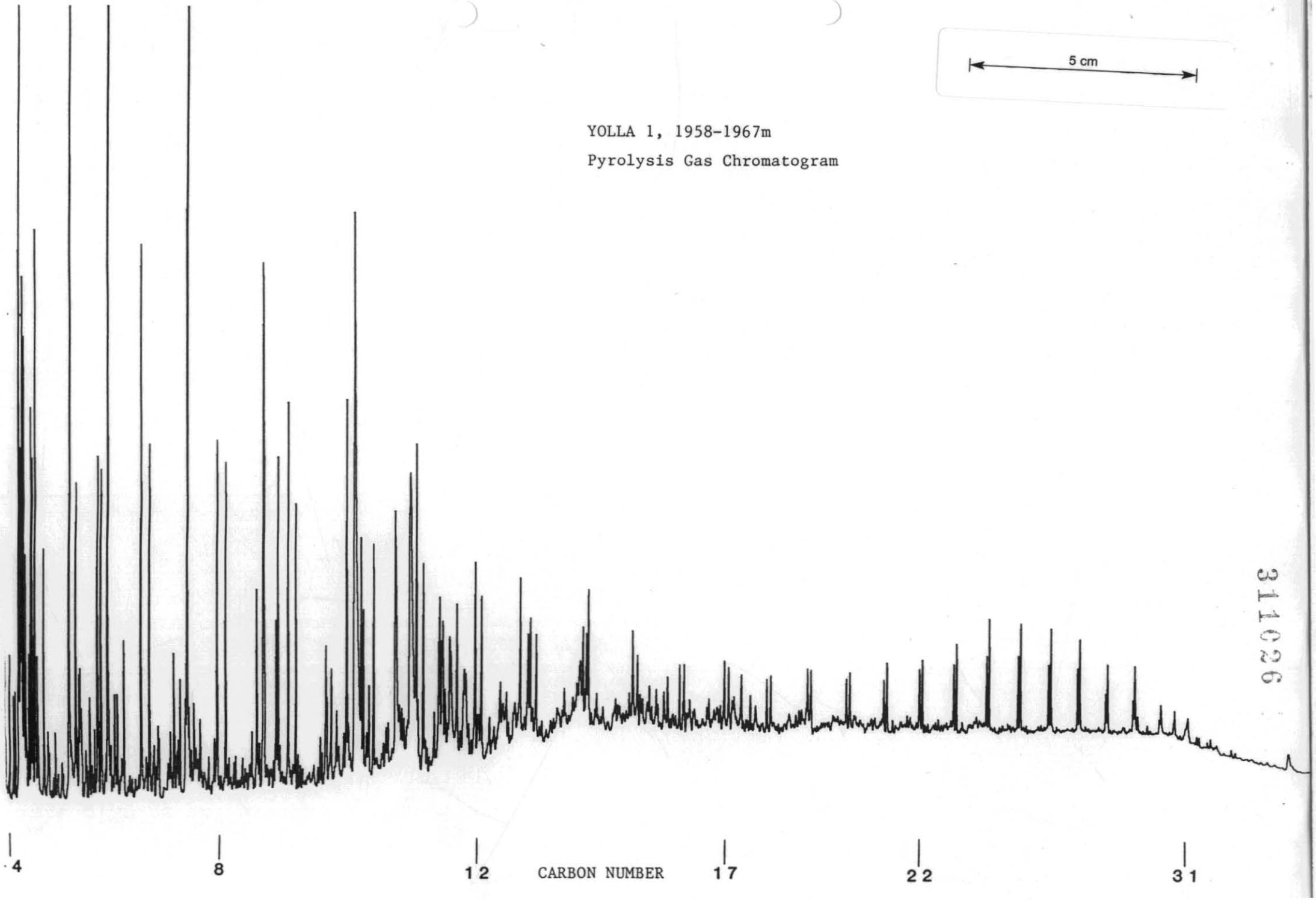
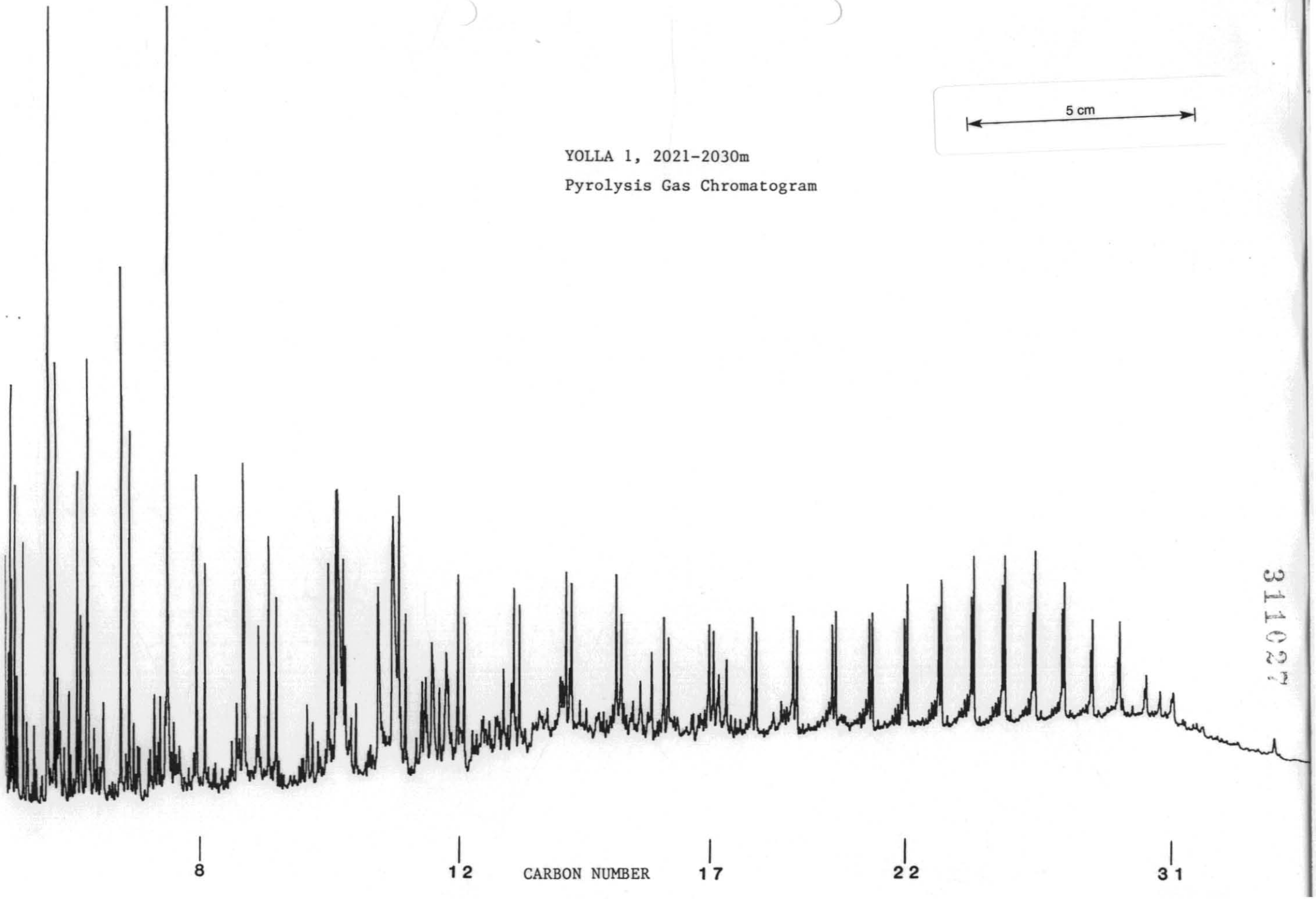
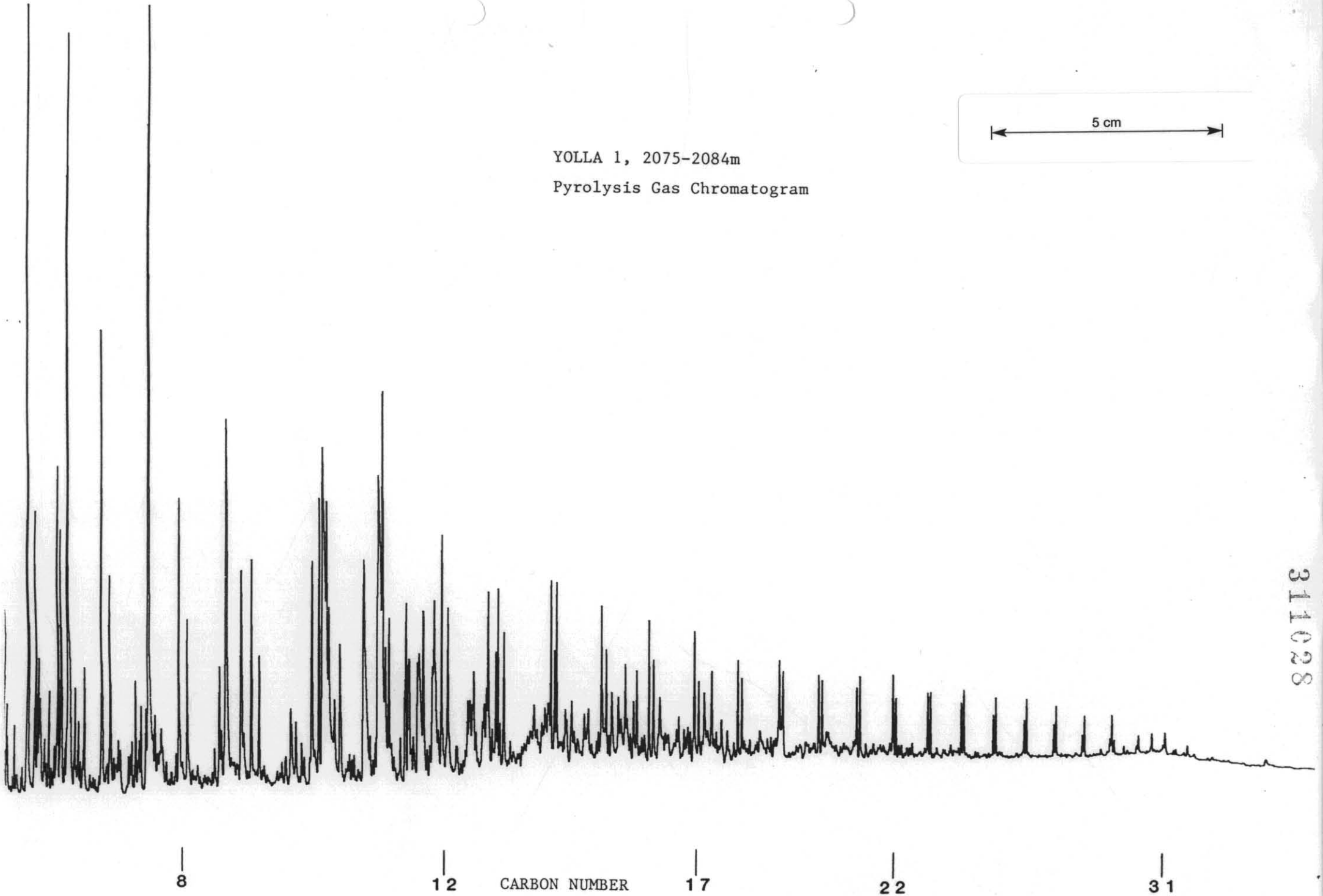
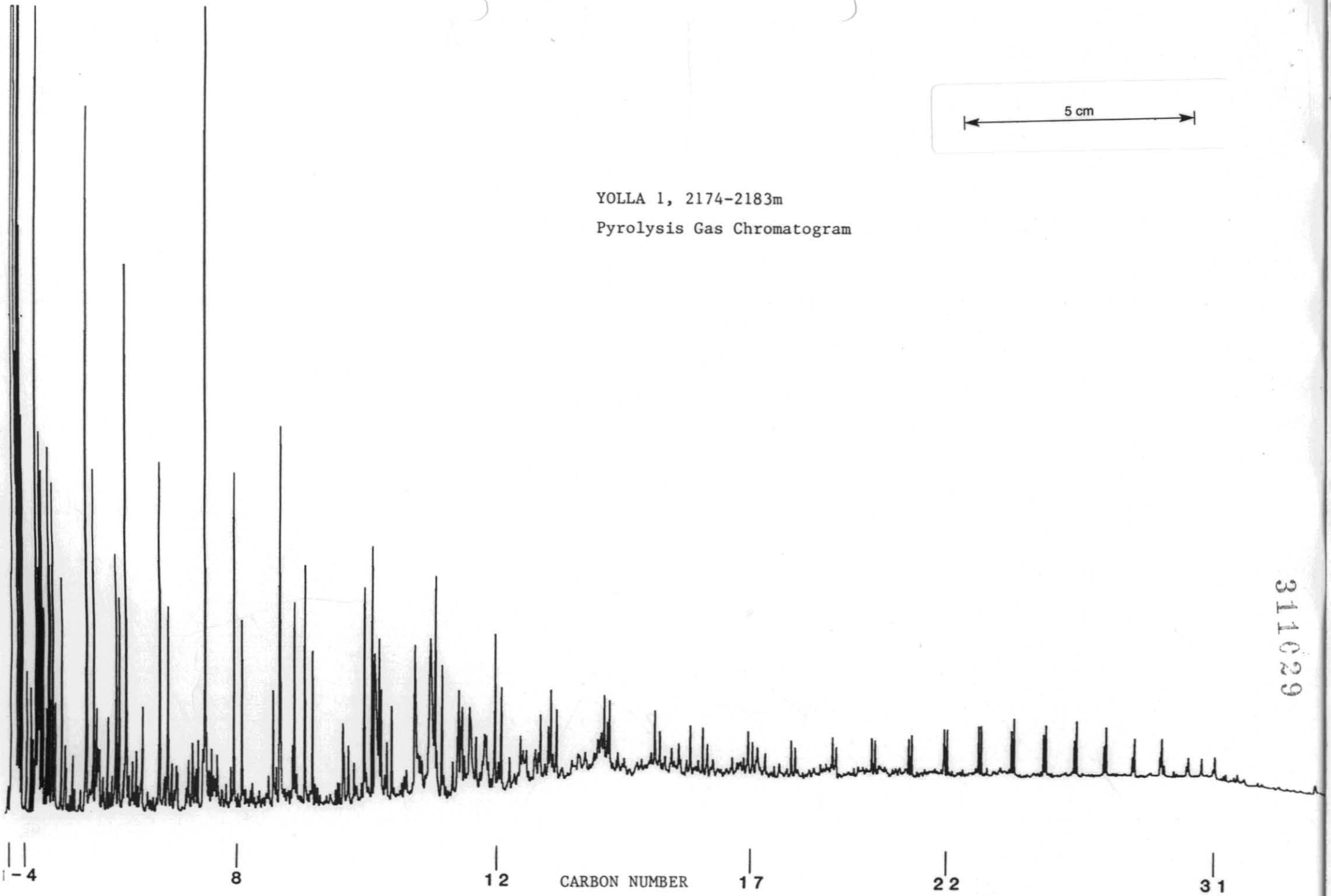
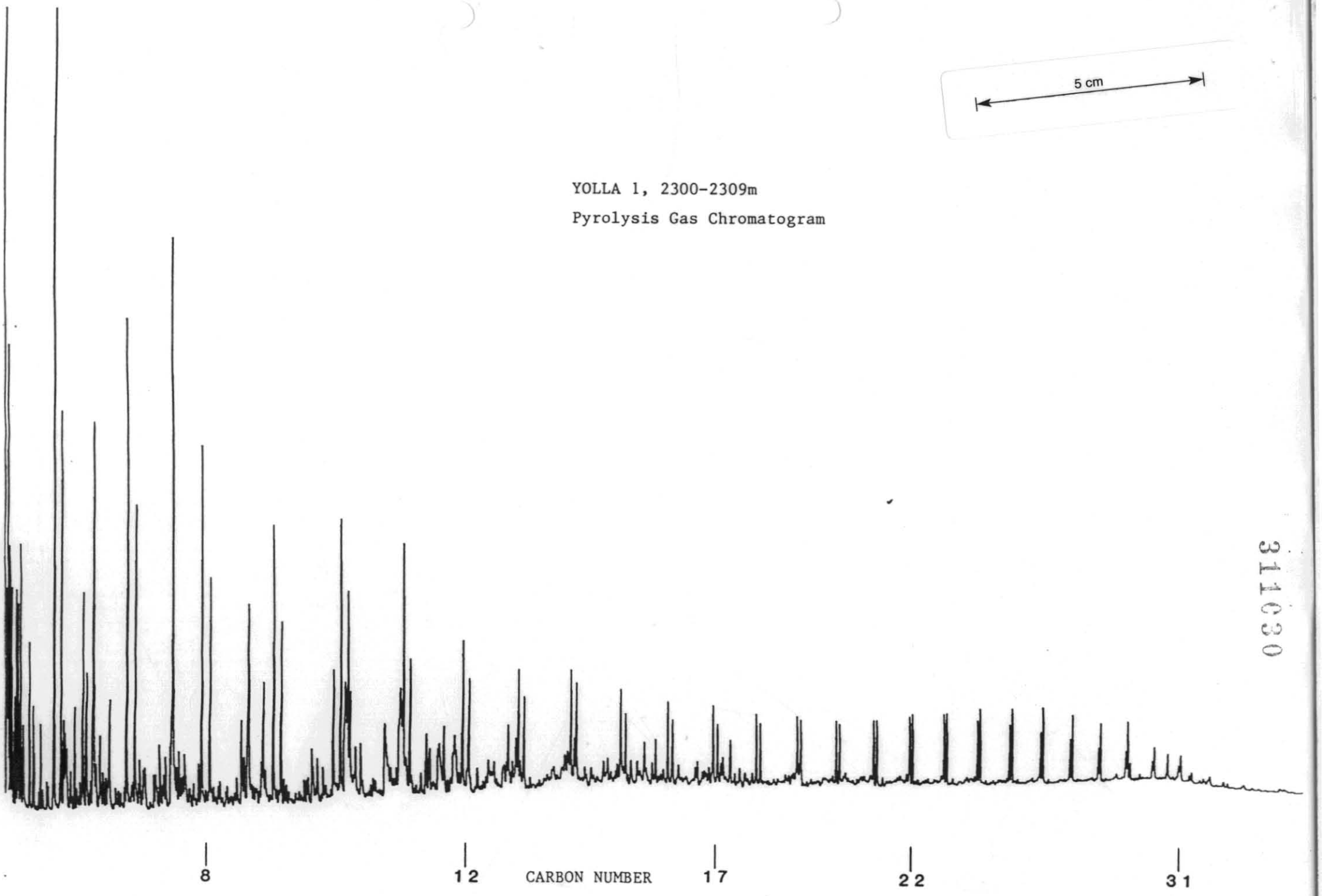
22
31

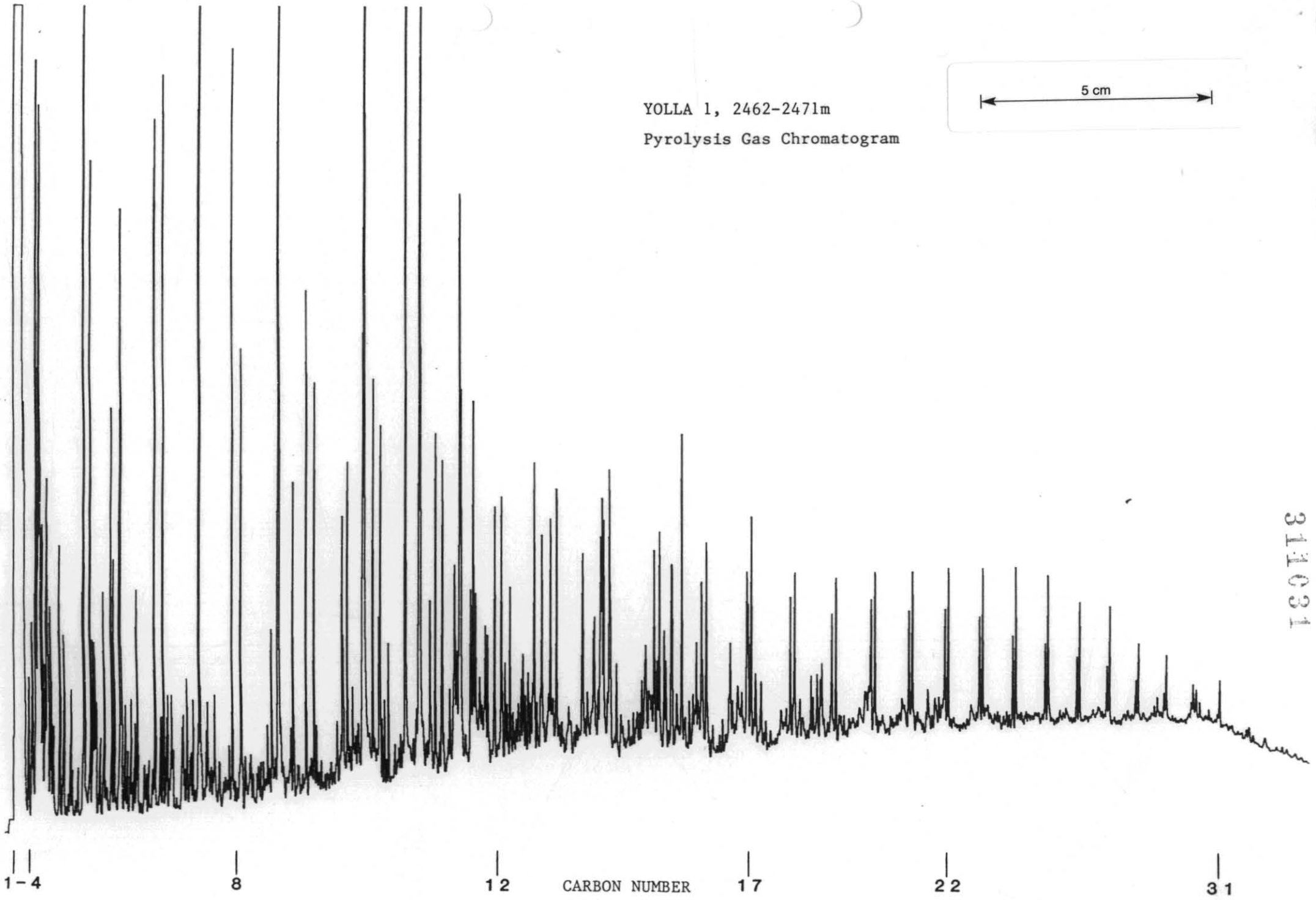

5 cm
YOLLA 1, 1958-1967m
Pyrolysis Gas Chromatogram
4
8
12
CARBON NUMBER
17
22
31

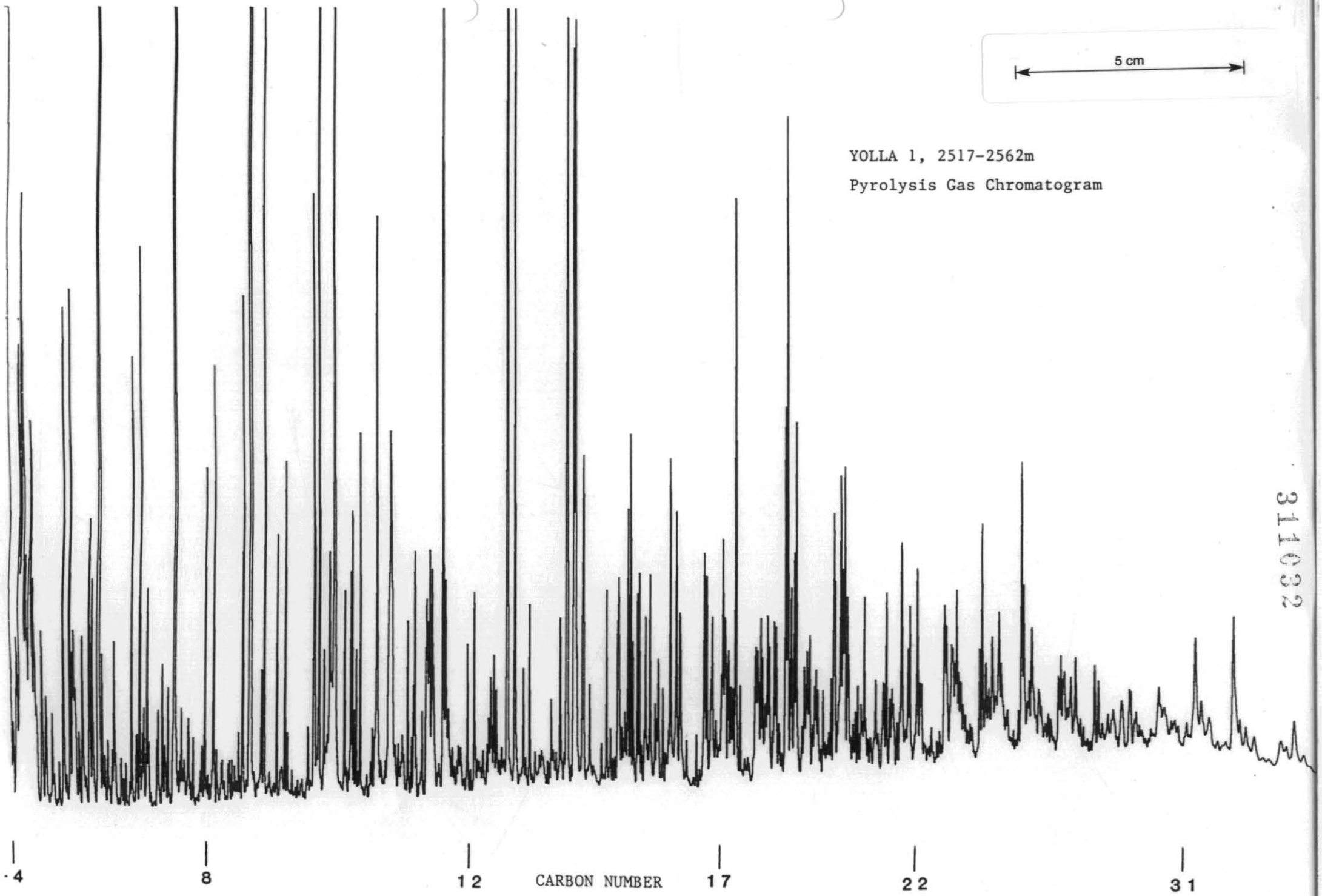

5 cm
YOLLA 1, 2021-2030m
Pyrolysis Gas Chromatogram
8
12
CARBON NUMBER
17
22
31
311027

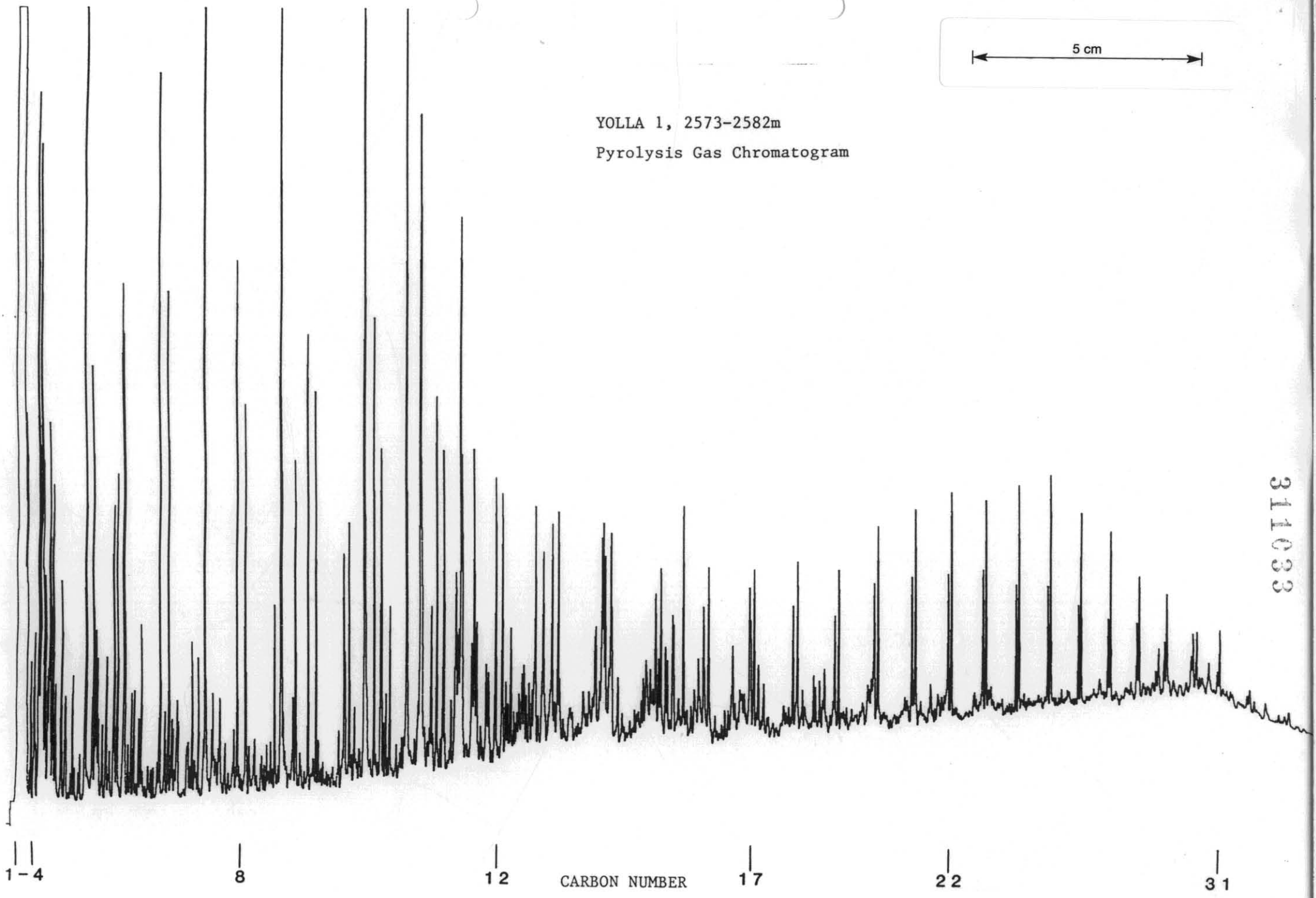

5 cm
YOLLA 1, 2075-2084m
Pyrolysis Gas Chromatogram
8
12
CARBON NUMBER
17
22
31

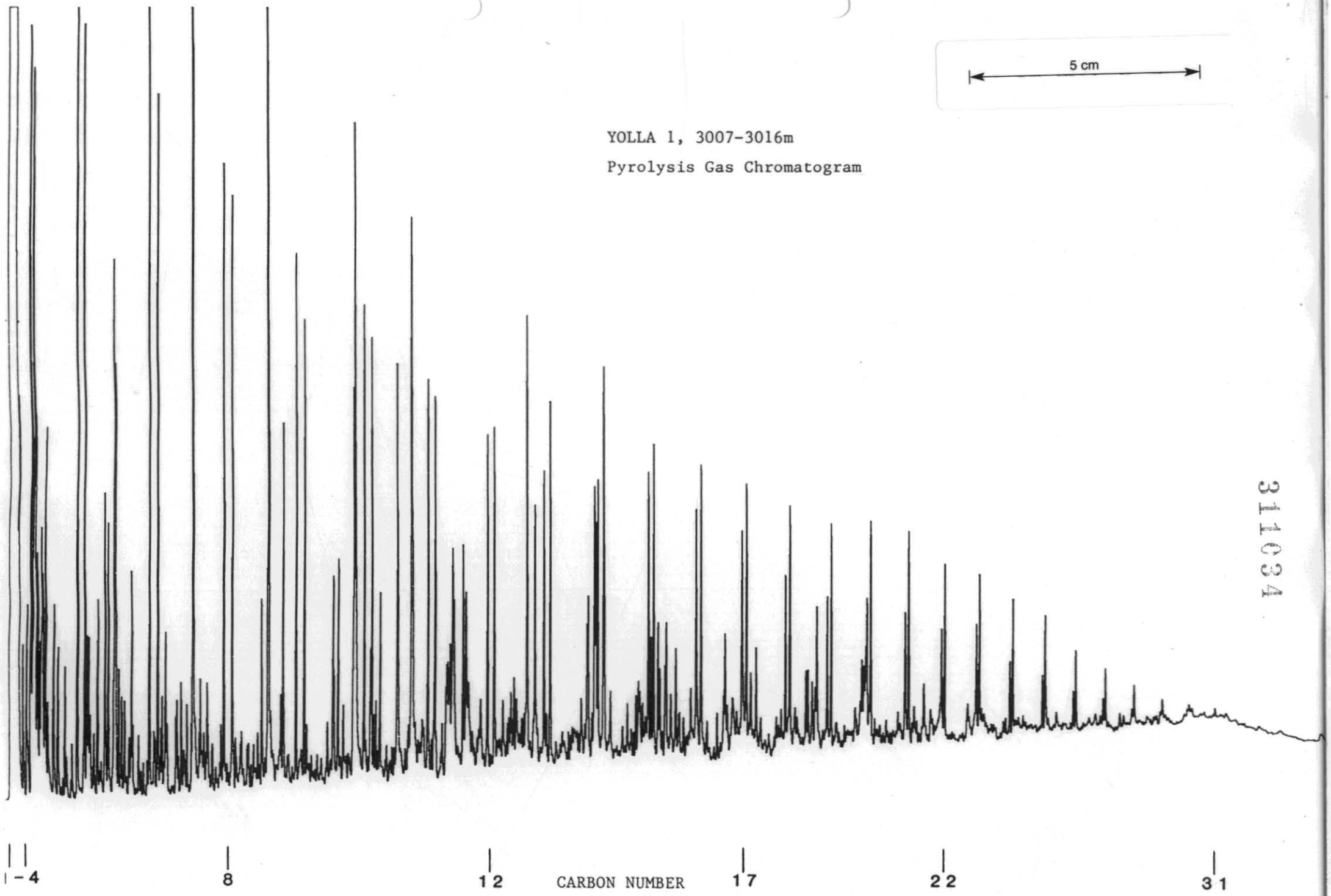

5 cm
YOLLA 1, 2174-2183m
Pyrolysis Gas Chromatogram
311029
1-4
8
12
CARBON NUMBER
17
22
31

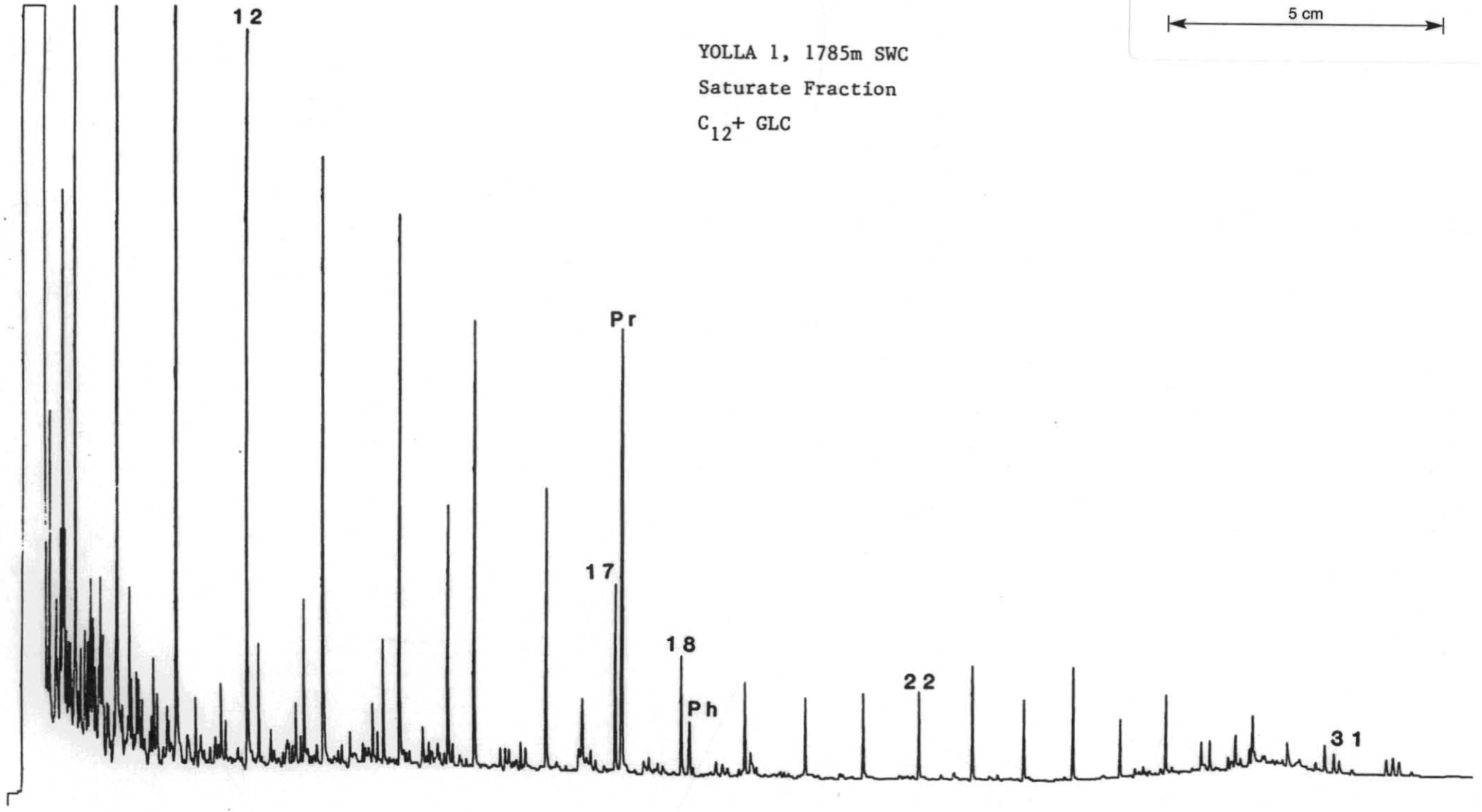

5 cm
YOLLA 1, 2300-2309m
Pyrolysis Gas Chromatogram
8
12
CARBON NUMBER
17
22
31


YOLLA 1, 2462-2471m
Pyrolysis Gas Chromatogram
5 cm
1-4
8
12
CARBON NUMBER
17
22
31


5 cm
YOLLA 1, 2517-2562m
Pyrolysis Gas Chromatogram
4
8
12
CARBON NUMBER
17
22
31


5 cm
YOLLA 1, 2573-2582m
Pyrolysis Gas Chromatogram
311033
1-4
8
12
CARBON NUMBER
17
22
31

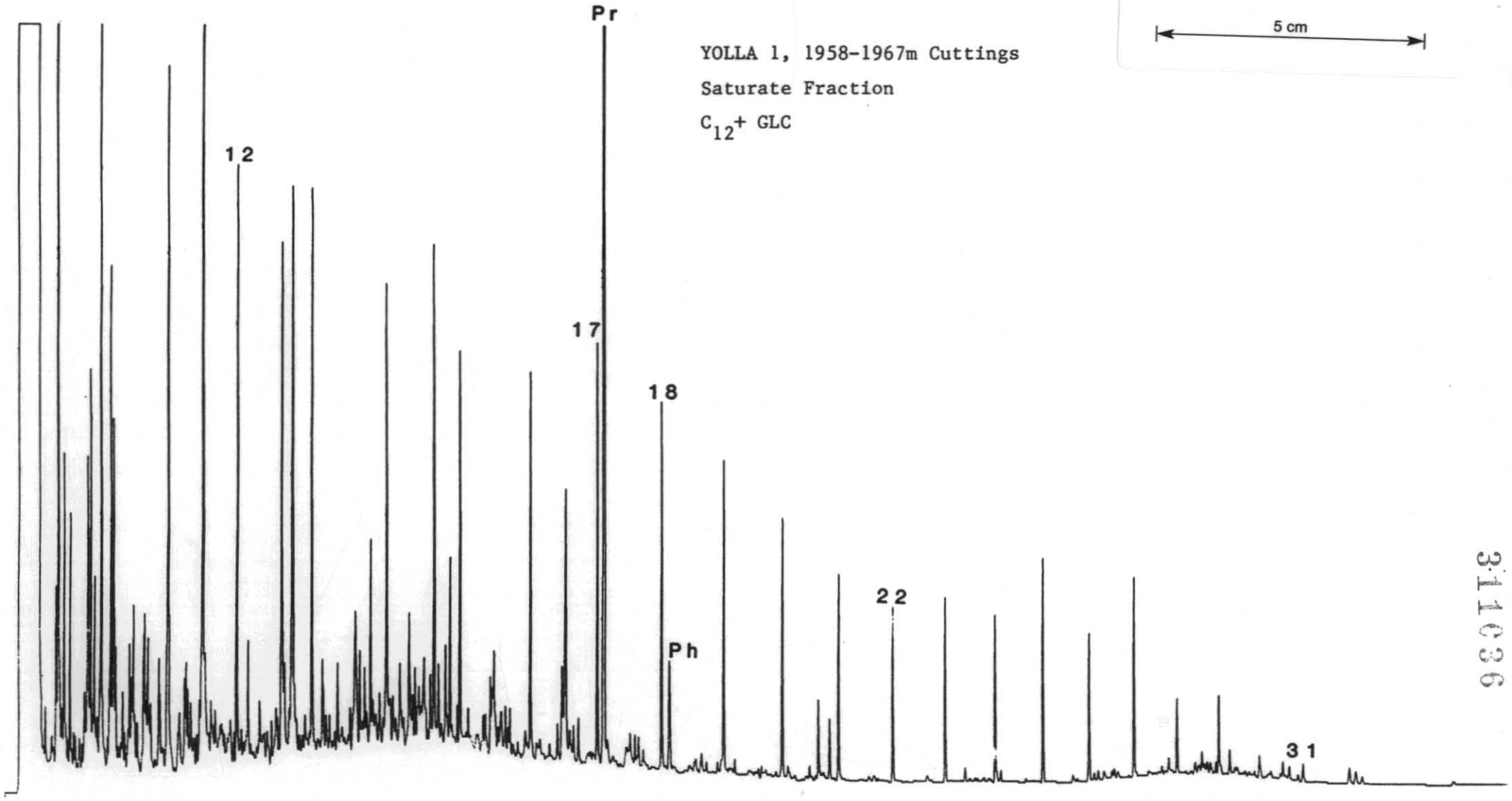

5 cm
YOLLA 1, 3007-3016m
Pyrolysis Gas Chromatogram
3116034
1-4
8
12
CARBON NUMBER
17
22
31

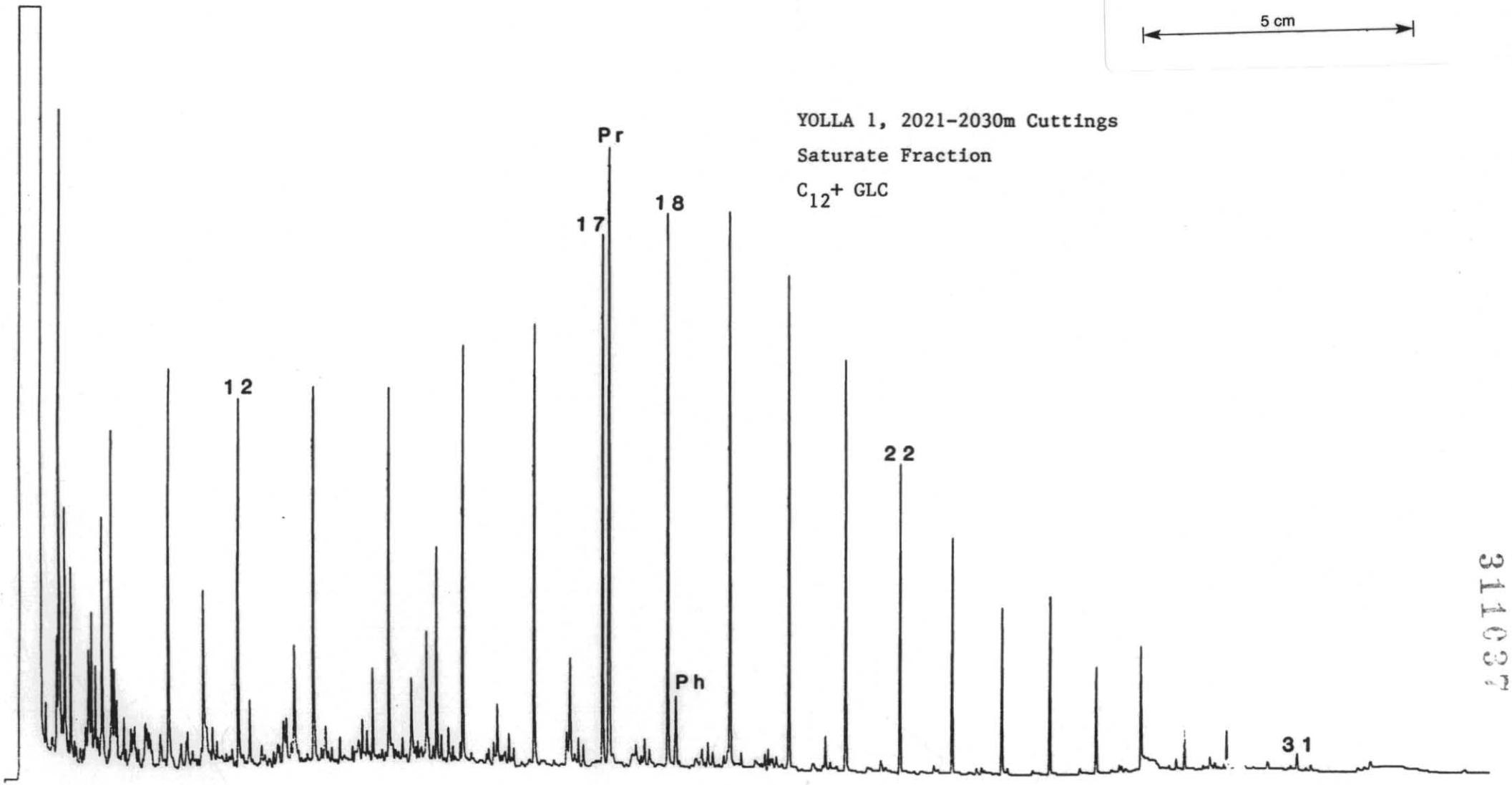


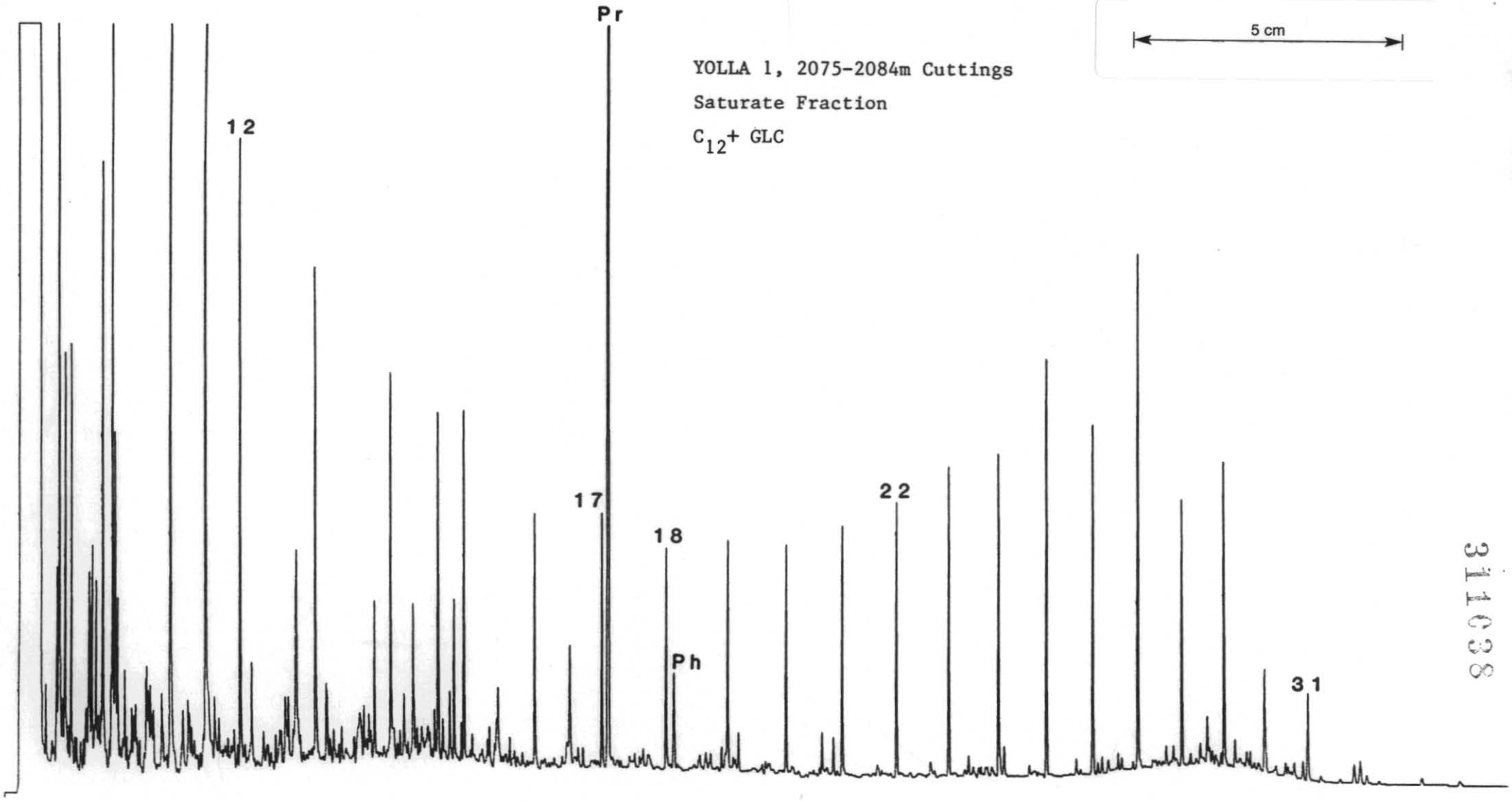
YOLLA 1, 1785m SWC

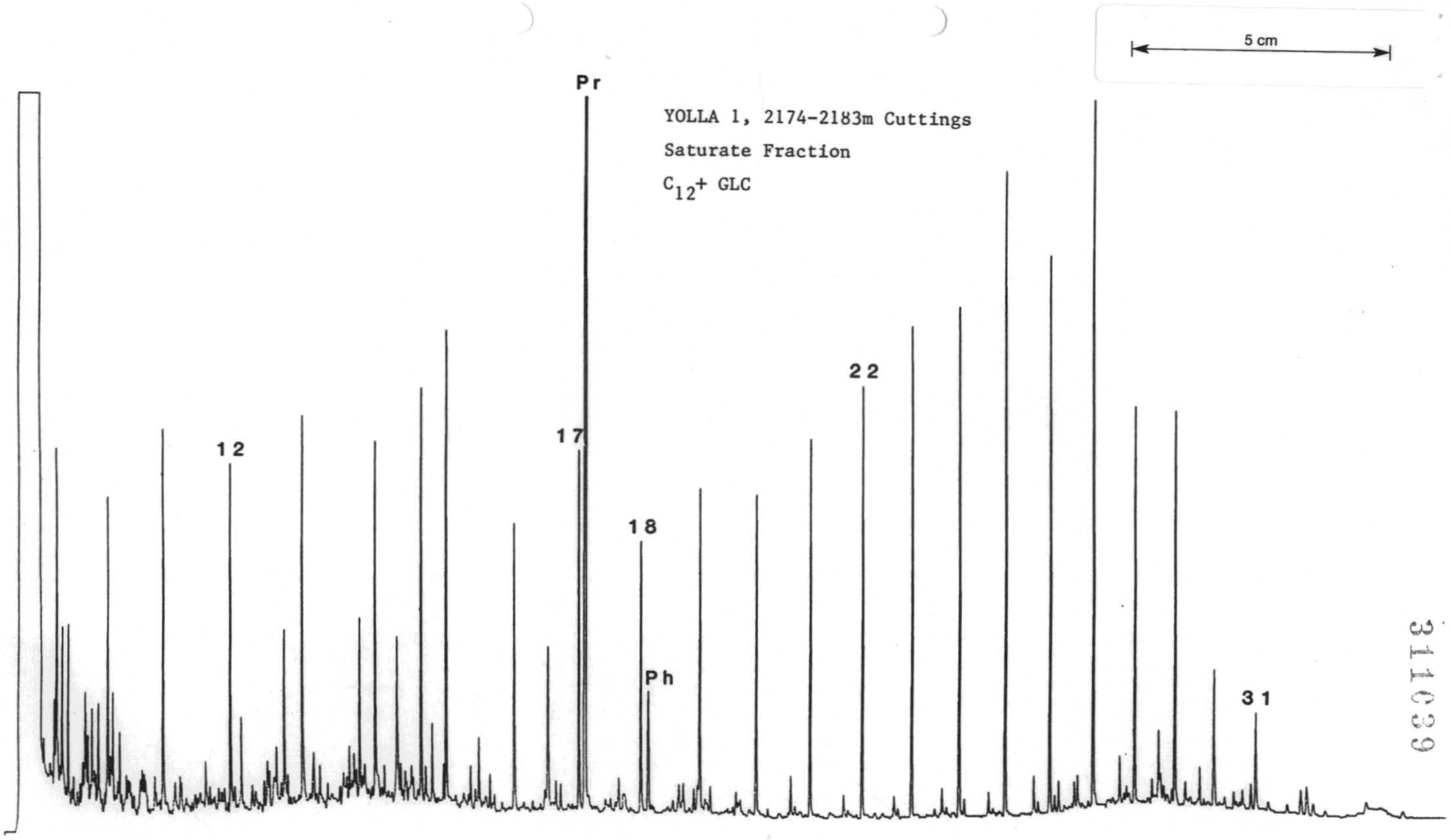
Saturate Fraction

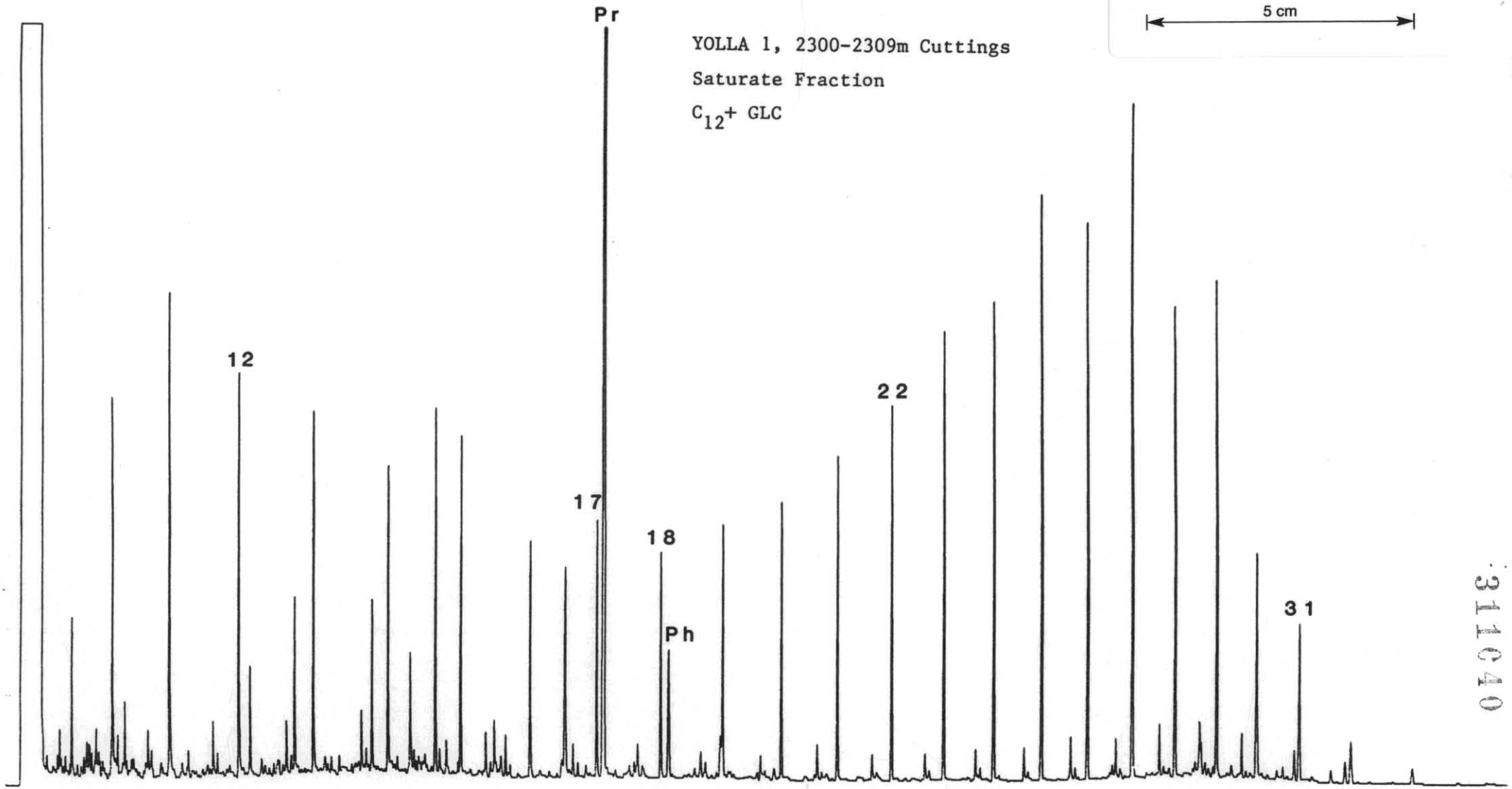
C_{12}+ GLC

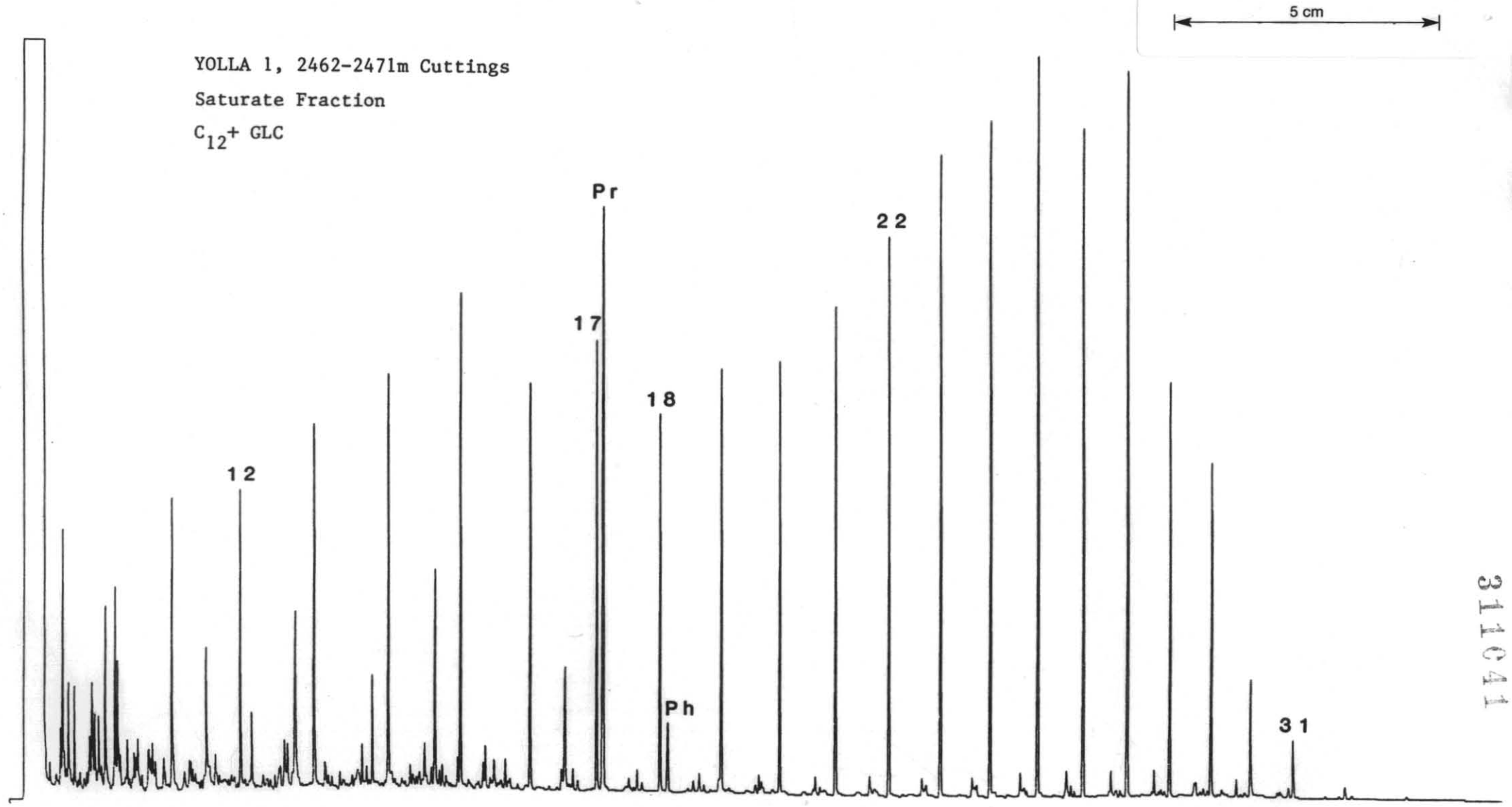

Pr
5 cm
YOLLA 1, 1958-1967m Cuttings
Saturate Fraction
C_{12}+ GLC
12
17
18
Ph
22
31

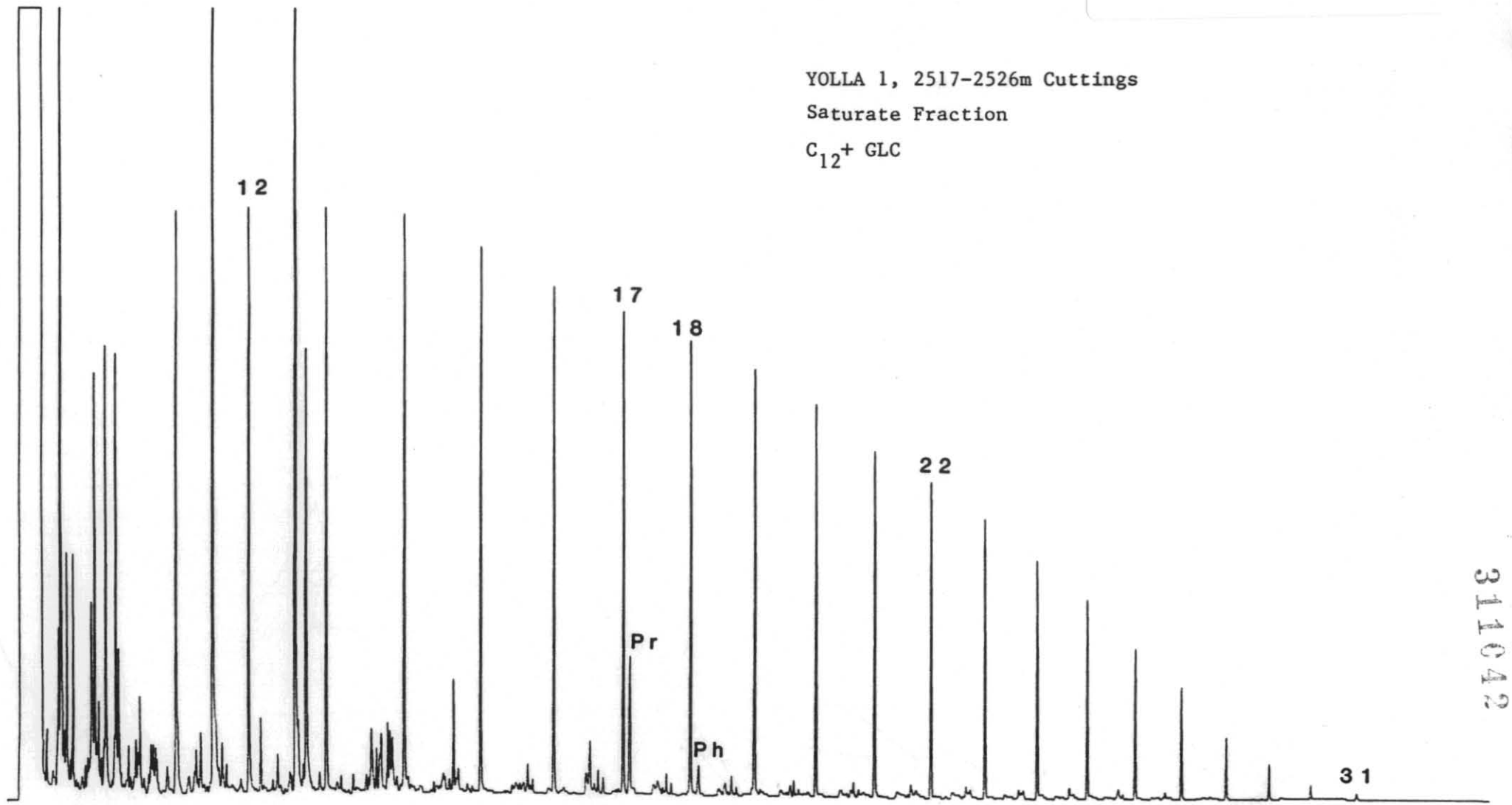

5 cm
YOLLA 1, 2021-2030m Cuttings
Saturate Fraction
C_{12}+ GLC
Pr
17
18
12
22
Ph
31


Pr
12
17
18
Ph
22
31
5 cm
YOLLA 1, 2075-2084m Cuttings
Saturate Fraction
C_{12}+ GLC
3411638


5 cm
YOLLA 1, 2174-2183m Cuttings
Saturate Fraction
C_{12}+ GLC
Pr
12
17
18
Ph
22
31


5 cm
YOLLA 1, 2300-2309m Cuttings
Saturate Fraction
C_{12}+ GLC
Pr
12
17
18
Ph
22
31

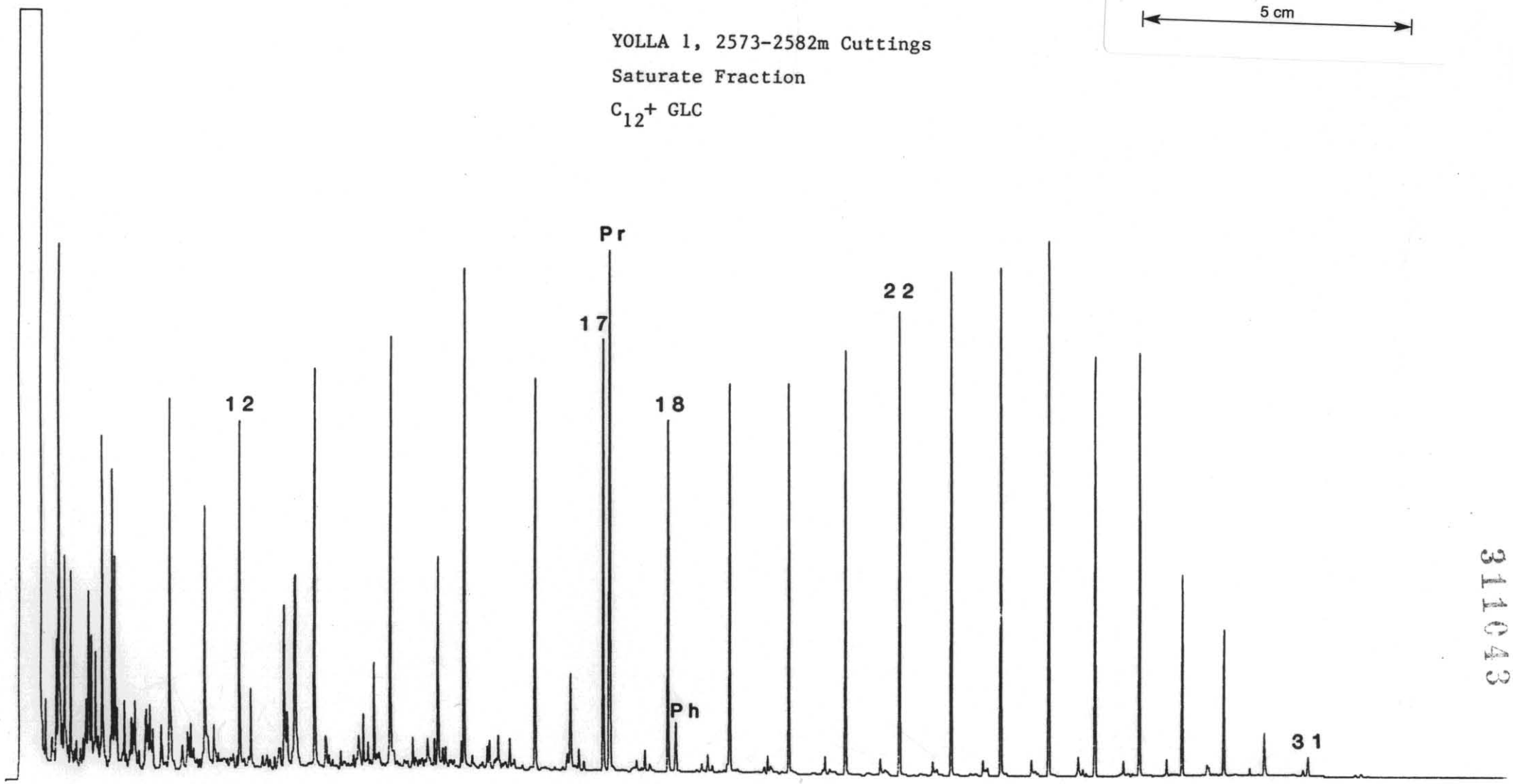

5 cm
YOLLA 1, 2462-2471m Cuttings
Saturate Fraction
C_{12}+ GLC
12
17
Pr
18
Ph
22
31


5 cm
YOLLA 1, 2517-2526m Cuttings
Saturate Fraction
C_{12}+ GLC
12
17
18
22
Pr
Ph
31

YOLLA 1, 2573-2582m Cuttings

Saturate Fraction

C_{12}+ GLC



YOLLA 1, 3007-3016m Cuttings

Saturate Fraction

C_{12}+ GLC