

FINAL REPORT

TOXIC POINT SOURCE ASSESSMENT OF INDUSTRIAL DISCHARGES TO THE CHESAPEAKE BAY BASIN. PHASE III: PROTOCOL VERIFICATION STUDY

**VOLUME IV
APPENDICES F - J**

Contract 68-02-3161

August 1982

MONSANTO RESEARCH CORPORATION

A SUBSIDIARY OF MONSANTO COMPANY



**D A Y T O N
L A B O R A T O R Y**

DAYTON, OHIO 45407

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APPENDICES F-J

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CHESAPEAKE BAY PROGRAM OFFICE
TOXICS PROGRAM
U.S. ENVIRONMENTAL PROTECTION AGENCY
ANNAPOLIS, MARYLAND 21401

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APPENDIX F

RELATIVE RETENTION INDICES OF PHASE III EFFLUENTS

A discussion of the generation of these data is contained in Appendix C, Section 10.

TABLE F-1. RELATIVE RETENTION INDICES FOR COMPONENTS
IN THE EXTRACTABLE ORGANICS ACID FRACTION
FROM EFFLUENT A109, FID/GC

PROCESSED FILE: DUCK Effluent A109 (8233-Acid)
RAW FILE: BAY45

SAMPLE NAME: ANP3 8233

RELATIVE RETENTION VALUES

OUTPUT FILE: OPF2

PEAK#	AREA	TIME	INDEX
1	28456	2.08212	***
2	6.12828E+07	2.18333	***
3	2629.53	2.85196	***
4	1981.62	2.99101	***
5	19607.5	3.47097	***
6	199572.	3.5332	***
7	4929.37	7.63229	***
8	2278.11	8.45292	***
9	1296.62	8.59931	***
10	1425.94	9.66632	***
11	17074.2	10.9208	***
12	7496.44	11.5474	***
13	3634.37	12.0143	***
14	1779.25	12.8589	***
15	2426.78	27.6677	236.513

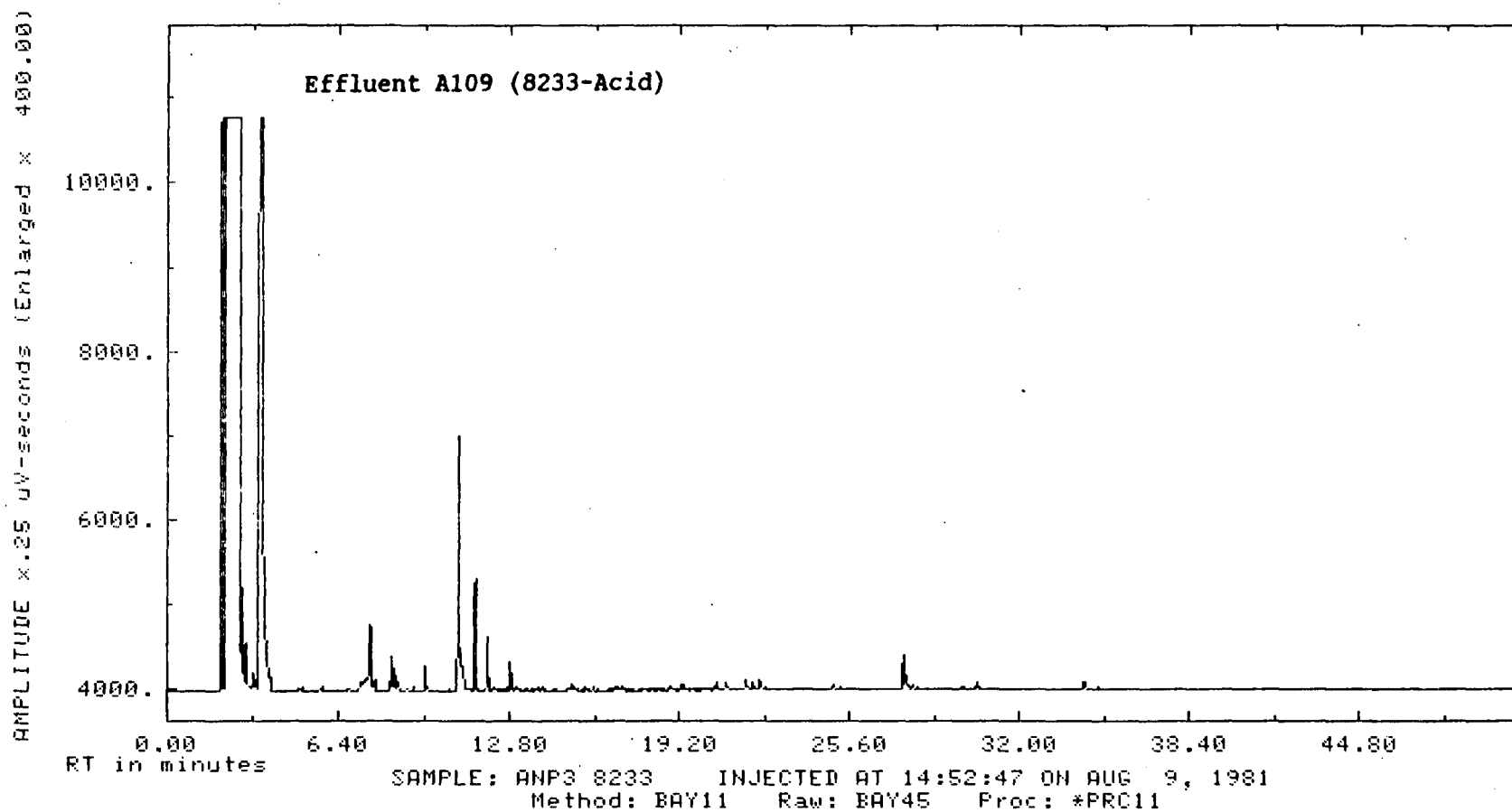


Figure F-1. FID/GC chromatogram of relative retention indices for components in the extractable organics acid fraction from effluent A109.

TABLE F-2. RELATIVE RETENTION INDICES FOR COMPONENTS
IN THE EXTRACTABLE ORGANICS BASE/NEUTRAL
FRACTION FROM EFFLUENT A109, FID/GC

PROCESSED FILE: *PRC32 Effluent A109 (8233-Base/Neutral)
RAW FILE: CBS48

SAMPLE NAME: BNP4 8233

RELATIVE RETENTION VALUES

OUTPUT FILE: OPF3

PEAK#	AREA	TIME	INDEX
1	6486.08	2.15045	***
2	118360.	2.18696	***
3	1.01374E+06	2.26458	***
4	6.42724E+07	2.28542	***
5	1382.12	3.48958	***
6	5332.7	3.60256	***
7	193504.	3.71147	***
8	1384.25	4.97917	***
9	3077.63	8.79097	***
10	2206.37	8.87917	***
11	11350.1	11.699	***
12	19314.6	12.4602	***
13	1888.22	13.3462	***
14	5878.03	13.4428	***
15	1.50672E+06	13.8451	***
16	213992.	13.8562	***
17	4605.94	13.8996	***
18	2708.69	14.5159	***
19	23563.3	15.8896	***
20	99447.	16.2994	***
21	4994.3	16.3178	***
22	4022.58	16.3452	***
23	3286.52	16.3664	***
24	1612.63	16.3876	***
25	1216.1	16.4067	***
26	1679.05	16.54	***
27	4646.09	16.7582	***
28	5042.72	16.9402	***

TABLE F-2 (continued)

29	1790.5	17.0033	***
30	1226.92	17.0117	***
31	1767.47	17.0506	***
32	6528.86	17.0778	***
33	1056.39	17.2979	***
34	2292.8	18.3323	***
35	14790.1	18.4193	***
36	1112.87	19.0625	***
37	1009.87	19.1704	***
38	36484.3	19.6089	***
39	9932.39	19.9039	103.393
40	2504	20.4193	111.201
41	2196.37	20.6052	114.018
42	51286.6	21.2866	124.343
43	93933.1	21.2982	124.519
44	2427	21.7097	130.753
45	1264.25	22.1234	137.022
46	2360.84	22.1983	138.156
47	4814.62	22.5528	143.527
48	9753.05	23.0415	150.932
49	1662.83	23.3698	155.906
50	28828.2	25.922	194.576
51	1153	28.0979	239.867
52	1857.23	30.2117	286.222
53	4843.61	30.3057	288.282
54	23430.9	30.7718	298.505
55	1499	31.6635	320.086
56	12049.5	34.8283	397.276
57	4884.75	41.0875	497.271

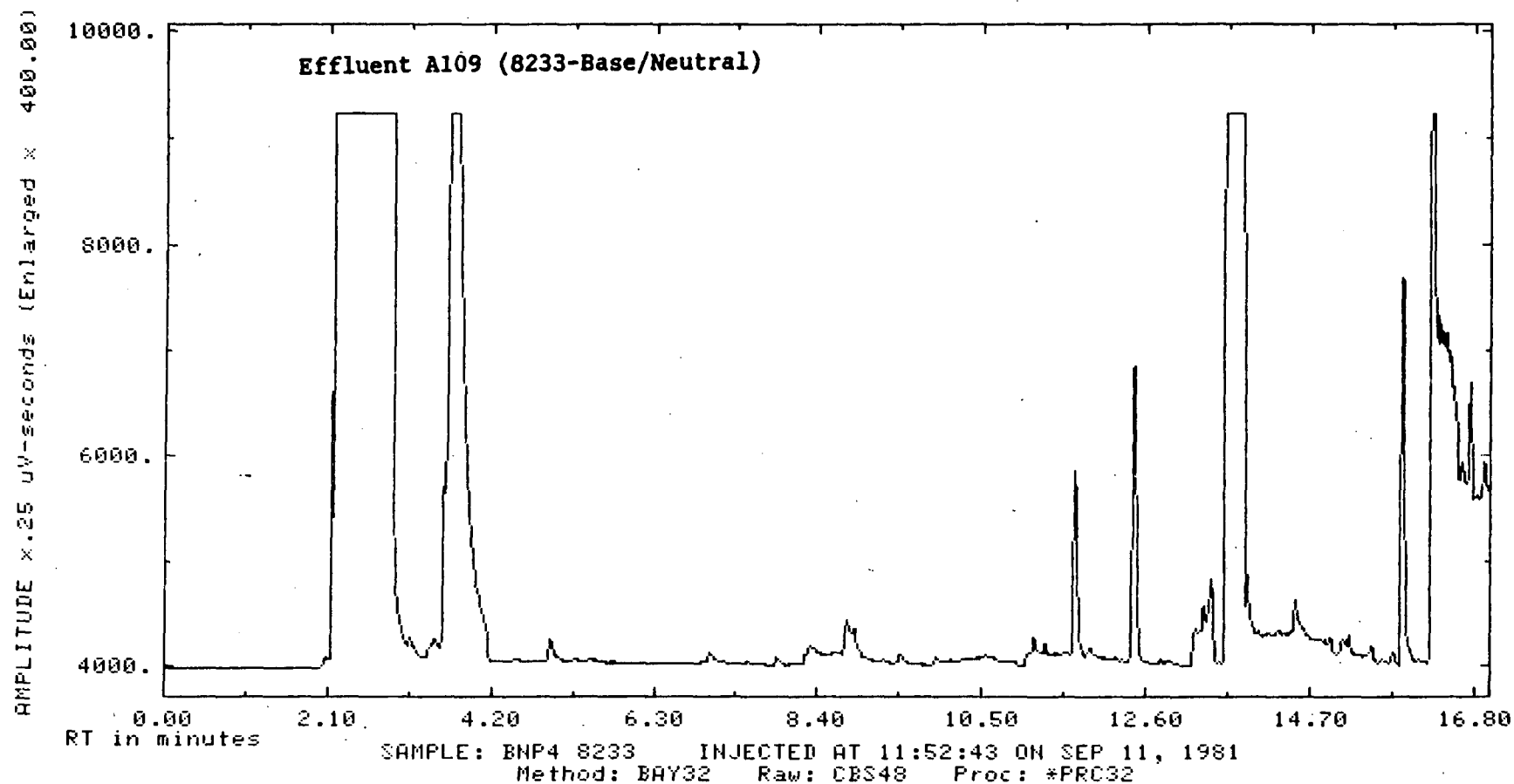


Figure F-2. FID/GC chromatogram of relative retention indices for components in the extractable organics base/neutral fraction from effluent A109.

F-7

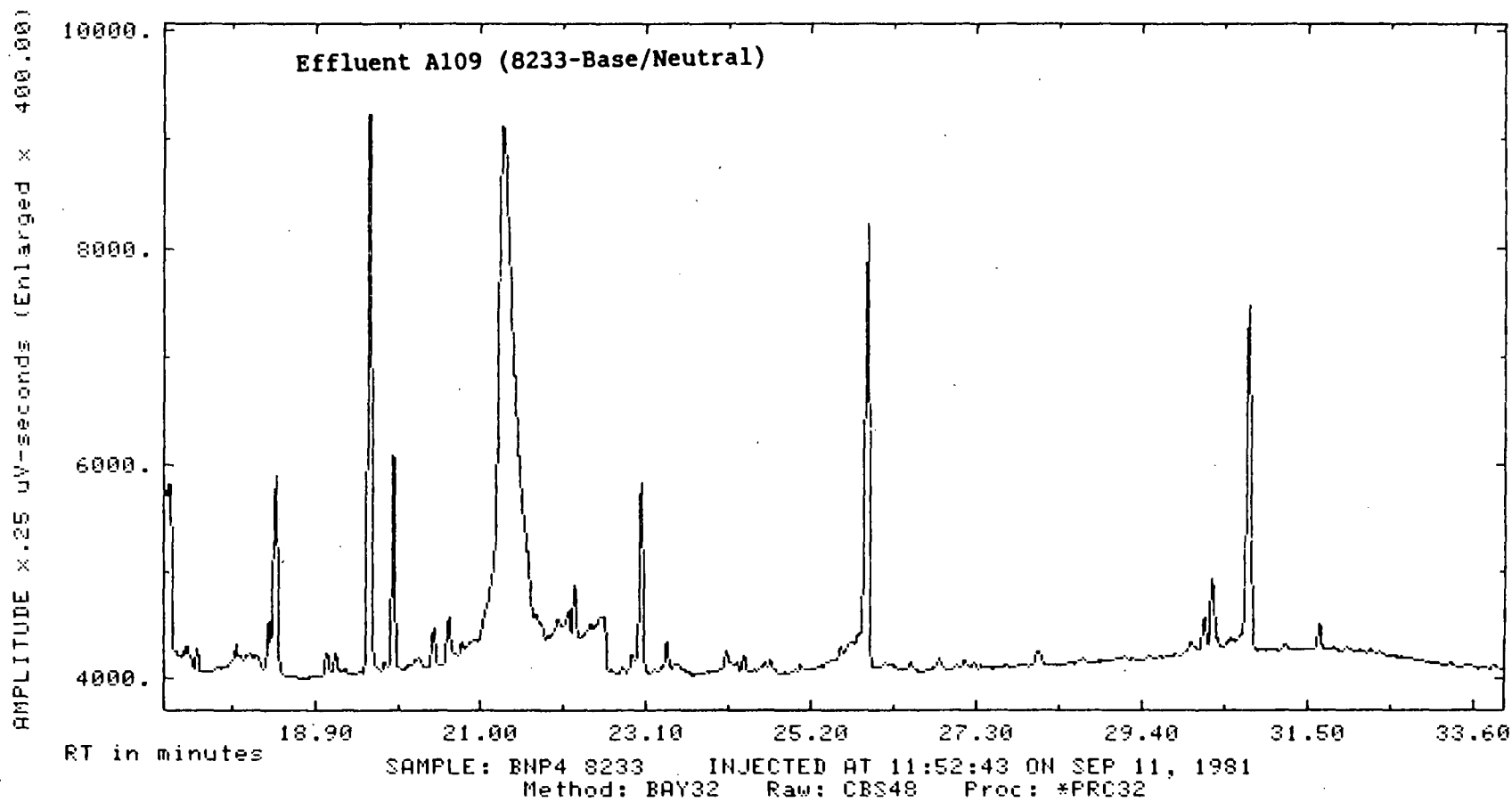


Figure F-2 (continued)

F-8

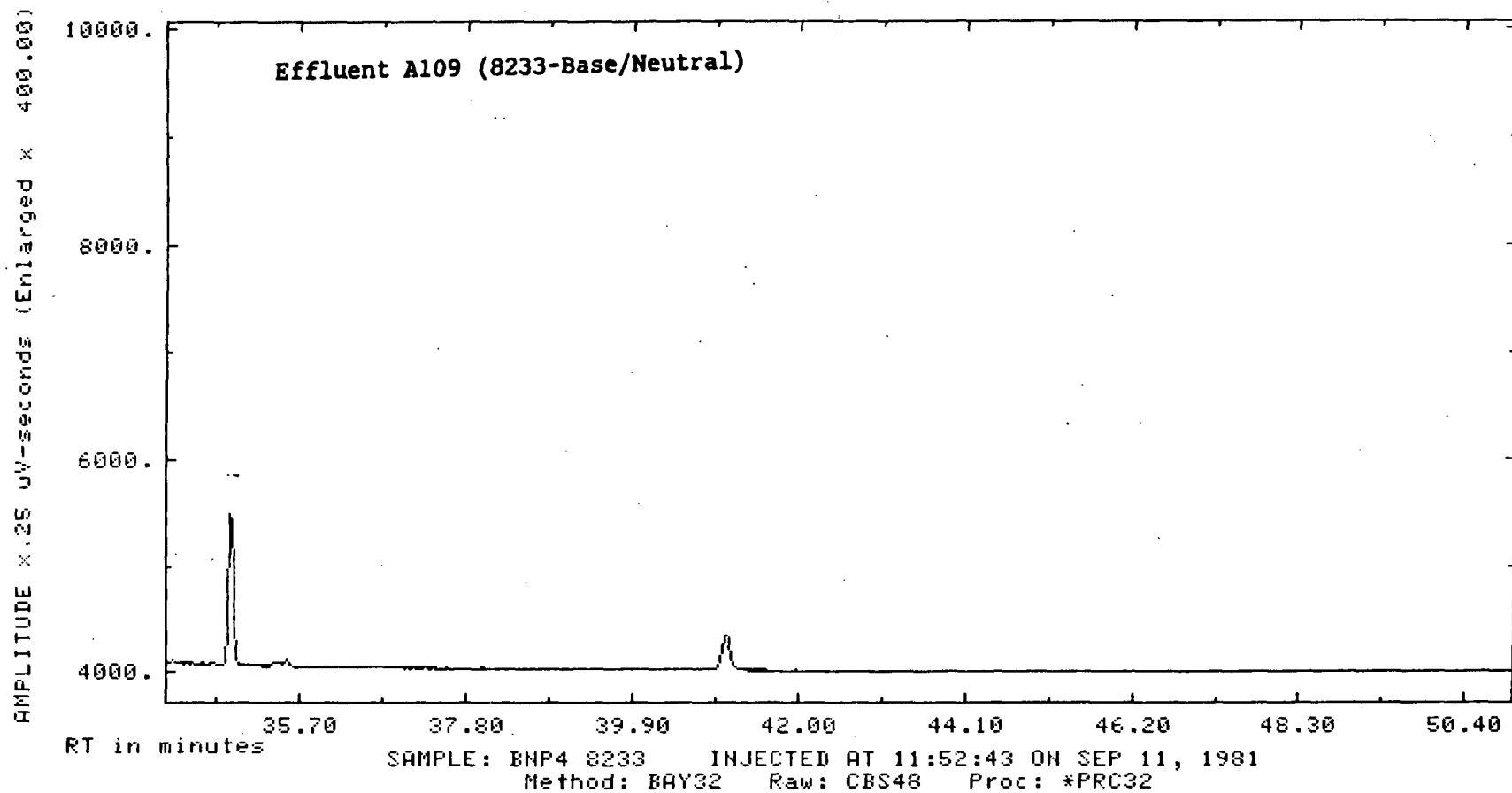


Figure F-2 (continued)

TABLE F-3. RELATIVE RETENTION INDICES FOR COMPONENTS
IN THE EXTRACTABLE ORGANICS ACID FRACTION
FROM EFFLUENT B112D, FID/GC

PROCESSED FILE: DUCK Effluent B112D (8219-Acid)
RAW FILE: BAY42

SAMPLE NAME: ANP3 8219

RELATIVE RETENTION VALUES

OUTPUT FILE: OPF2

PEAK#	AREA	TIME	INDEX
1	3773.4	2.096	***
2	46008.3	2.16782	***
3	5.64821E+07	2.19583	***
4	3866.8	3.4737	***
5	70970.4	3.53507	***
6	19574.4	10.9149	***
7	1587.25	12.2344	***
8	1176.7	12.491	***
9	1747.25	12.6969	***
10	1233.81	13.1646	***
11	11838.9	13.9046	***
12	2984.69	14.5571	***
13	64033.2	14.8179	***
14	72816.2	15.2445	***
15	11649	15.4275	***
16	12035.	15.7244	***
17	6293.23	15.8337	***
18	2187.43	15.9804	***
19	4854.87	16.2237	***
20	3002.25	16.4202	***
21	1597.73	16.4875	***
22	14497.7	16.6268	***
23	5758.72	16.7142	***
24	1035.34	16.7908	***
25	23389.4	17.0446	***
26	7676.31	17.2121	***
27	7764.16	17.2953	***
28	5050.64	17.3847	***
29	4611.08	18.1648	***
30	13450.7	18.2211	***
31	10958.1	18.6134	***
32	3340.58	18.6691	***
33	1048.34	18.825	***
34	1320.82	19.0031	***
35	2866.87	19.0906	***

TABLE F-3 (continued)

36	4639.94	19.3367	***
37	4323.24	19.4965	100.86
38	1704.83	19.65	103.196
39	2158.69	19.9835	108.273
40	2865.66	20.2046	111.637
41	4675.11	20.5451	116.82
42	2031.44	21.0542	124.569
43	1824.25	21.3196	128.609
44	5709.09	21.7539	135.219
45	1293.91	21.9632	138.405
46	2146.19	22.2667	143.024
47	2452.84	22.3542	144.356
48	4296.84	22.5927	147.986
49	1748.54	22.8039	151.201
50	1438.76	23.2971	158.707
51	4388.83	23.431	160.746
52	4267	23.7429	165.493
53	6336.5	24.3902	175.346
54	13670.8	24.6347	179.068
55	8279.73	24.7972	181.541
56	8717.05	24.8879	182.921
57	8928.55	24.8967	183.055
58	3643.12	24.9536	183.922
59	2789.56	25.425	191.096
60	1401.66	25.5548	193.071
61	2808.03	25.6305	194.223
62	3465.95	25.9784	199.519
63	1704.48	26.2672	205.665
64	6138.34	26.6387	213.849
65	1408.48	26.7625	216.575
66	1970.75	26.9528	220.766
67	4680.52	27.0848	223.673
68	3118.86	27.1881	225.949
69	1463.86	27.8865	241.332
70	8225.69	28.5407	255.743
71	5134.12	29.4872	276.591
72	1333.75	30.4435	297.653

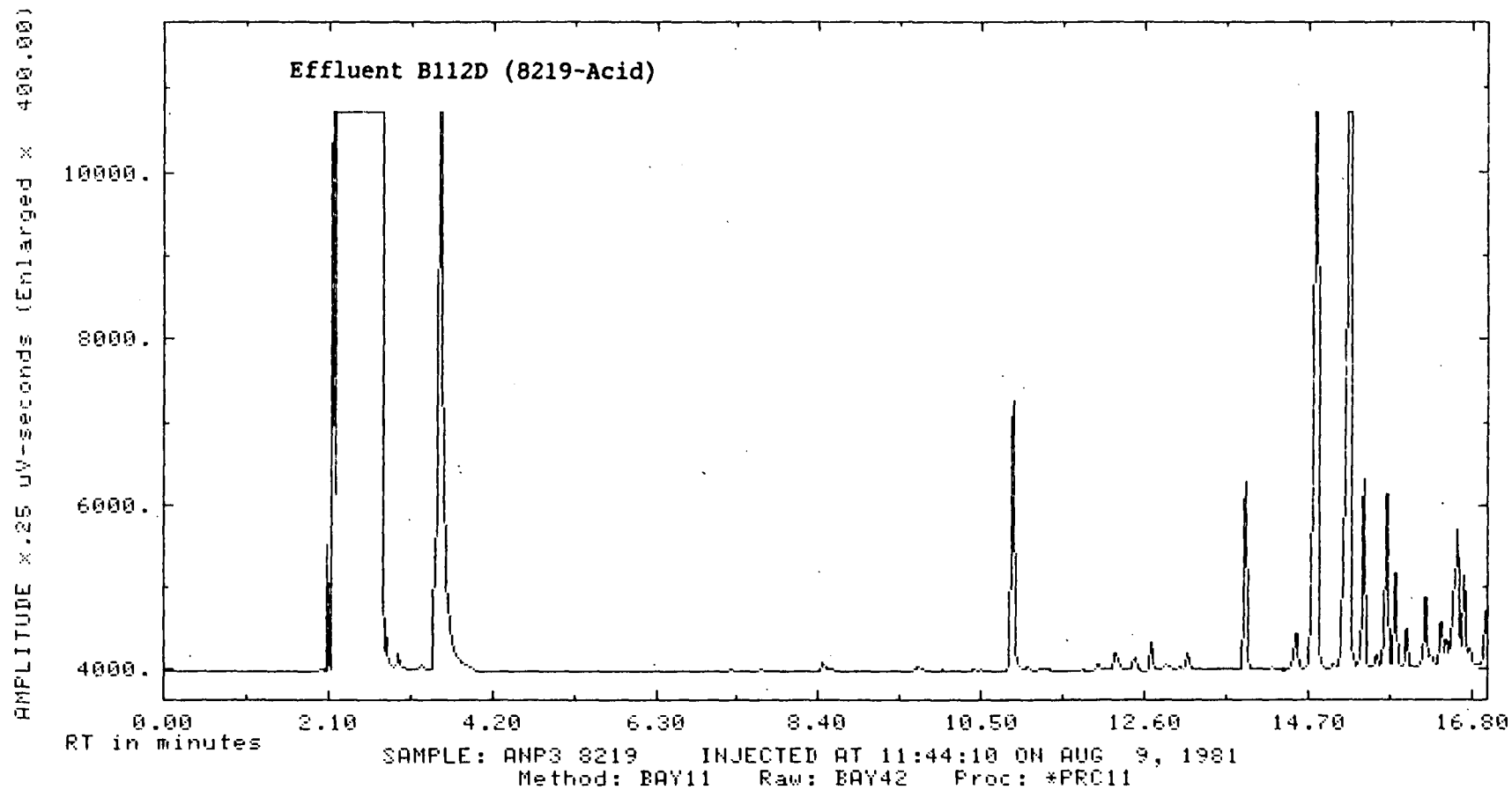


Figure F-3. FID/GC chromatogram of relative retention indices for components in the extractable organics acid fraction from effluent B112D.

F-12

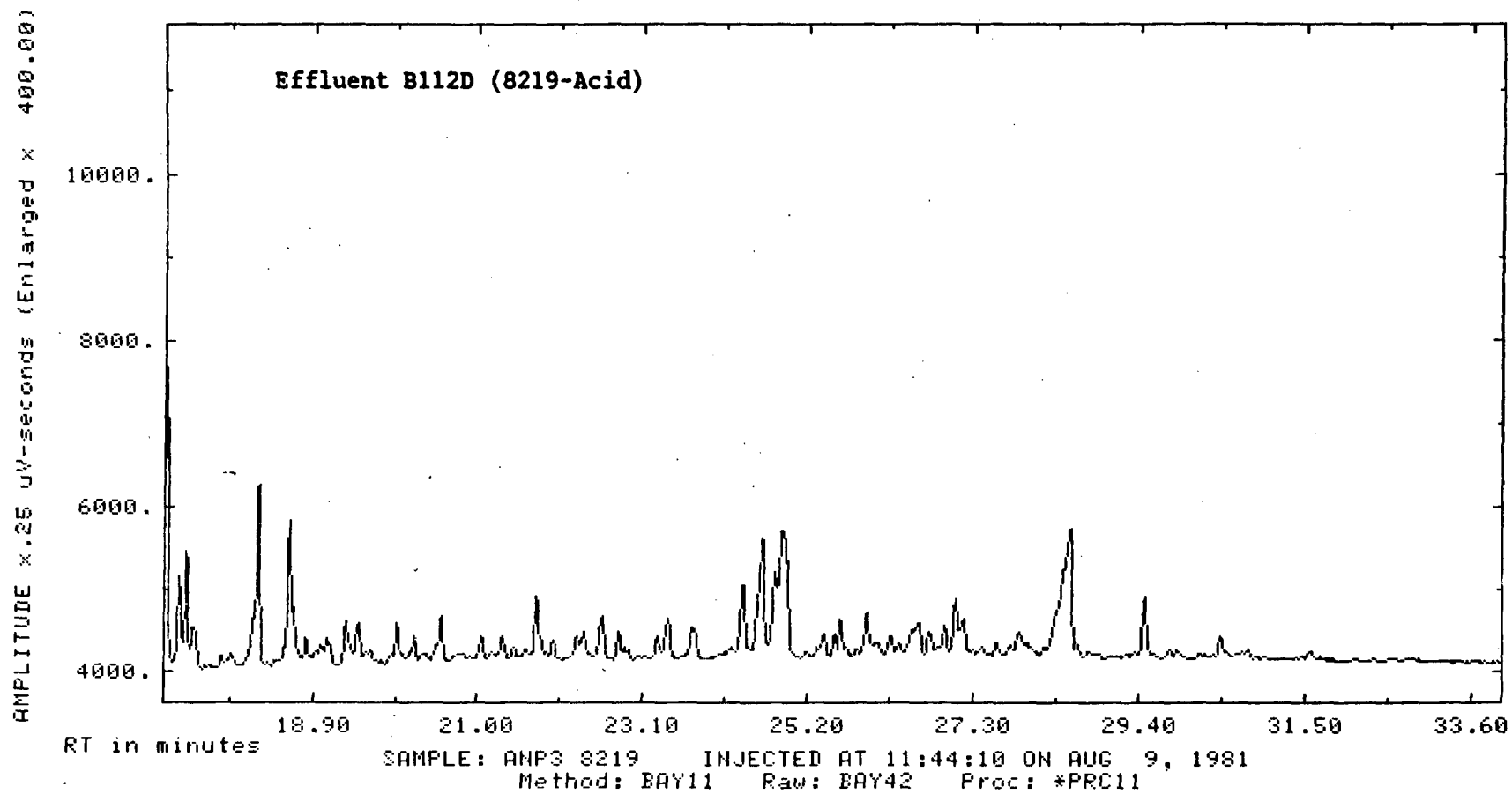


Figure F-3 (continued)

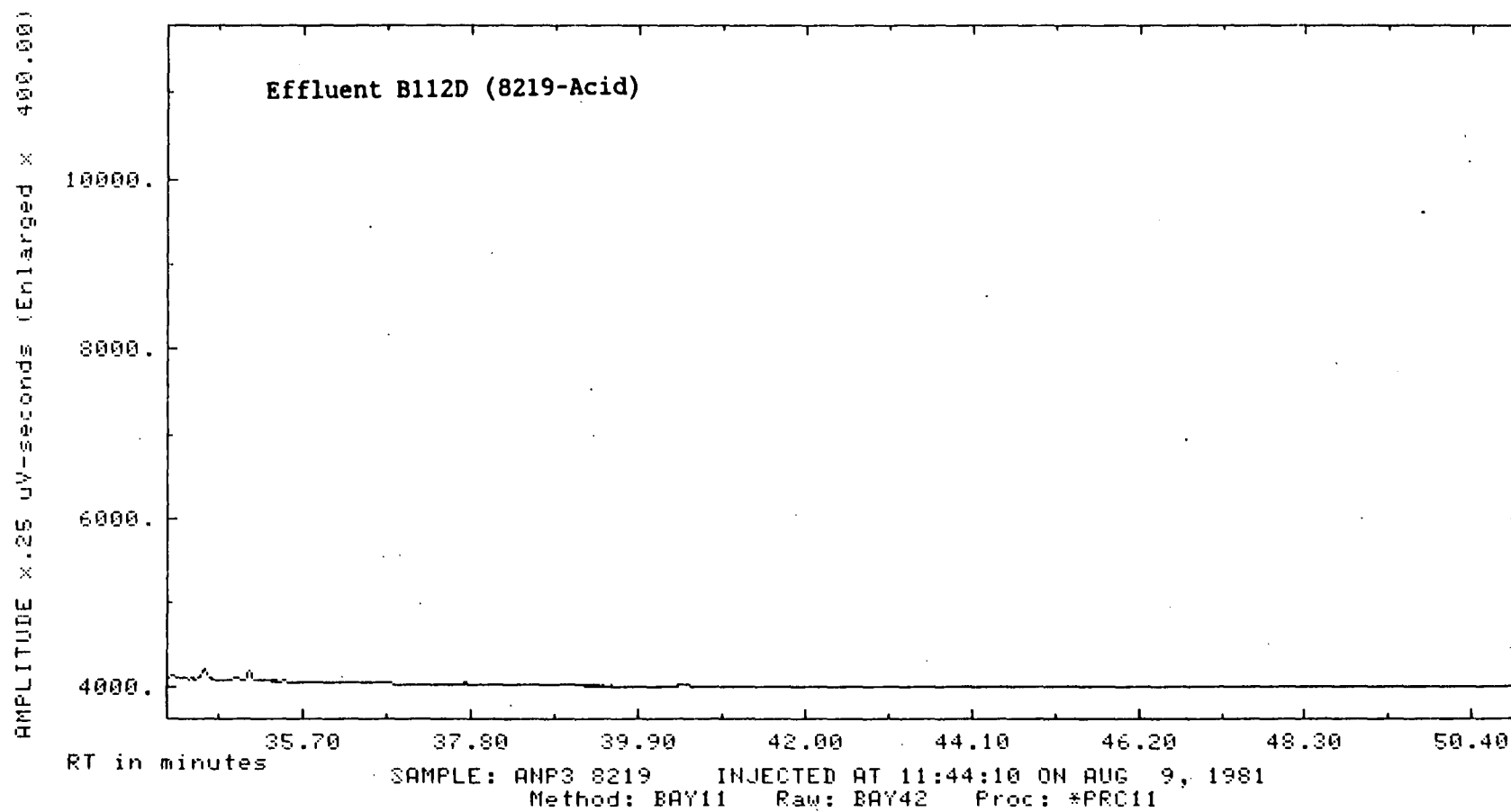


Figure F-3 (continued)

TABLE F-4. RELATIVE RETENTION INDICES FOR COMPONENTS
IN THE EXTRACTABLE ORGANICS BASE/NEUTRAL
FRACTION FROM EFFLUENT B112D, FID/GC

PROCESSED FILE: *PRC11 Effluent B112D (8219-Base/Neutral)
RAW FILE: BAY93

SAMPLE NAME: BNP3 8219

RELATIVE RETENTION VALUES

OUTPUT FILE: OPF1

PEAK#	AREA	TIME	INDEX
1	5381.73	2.14839	***
2	75340.	2.21809	***
3	5.61918E+07	2.25417	***
4	2445.75	3.41979	***
5	104589.	3.64178	***
6	8763.5	5.41163	***
7	3138.25	8.19333	***
8	2278.5	8.85042	***
9	3936.62	9.82232	***
10	1331.45	9.95764	***
11	2236.11	10.7167	***
12	1469.64	10.8847	***
13	2792.5	11.1437	***
14	2017.53	11.4438	***
15	3511.72	11.5271	***
16	2252	12.2517	***
17	19272.4	12.5149	***
18	23380.6	12.5904	***
19	1966.62	12.7996	***
20	1361.31	13.3156	***
21	4965.4	13.3751	***
22	3403.95	13.4569	***
23	1933.95	13.5835	***
24	1274.96	13.79	***
25	8916.69	14.2155	***
26	1516.41	14.425	***
27	1029.15	14.5337	***
28	2440.61	14.8253	***
29	1442.38	14.9698	***
30	20602.7	15.1039	***
31	4731.3	15.2133	***
32	3352.42	15.3257	***
33	2909.7	15.4578	***
34	6173.02	15.5281	***

TABLE F-4 (continued)

35	3830.73	15.735	***
36	1532.76	15.8976	***
37	1087.89	15.9937	***
38	1688.59	16.0551	***
39	9477.54	16.1539	***
40	14247.	16.3016	***
41	14889.3	16.5516	***
42	2144.18	16.7471	***
43	27683.8	16.9171	***
44	5394.94	17.0466	***
45	3311.95	17.3712	***
46	6793.56	17.5442	***
47	4617	17.6317	***
48	2004.73	17.7736	***
49	12755.7	17.9223	***
50	5066.73	18.0729	***
51	1490.81	18.226	***
52	2829.24	18.3852	***
53	14094.2	18.4493	***
54	26405.2	18.5323	***
55	2158.65	18.606	***
56	2306.52	19.343	***
57	1260.12	19.4851	***
58	42960.6	19.6916	***
59	5004.48	19.7484	***
60	5327.37	19.8894	101.806
61	9665.2	20.2201	106.809
62	12998.1	20.4973	111.004
63	6524.16	20.5587	111.932
64	1083.98	20.6464	113.258
65	5023.69	20.8502	116.342
66	4522.45	20.9035	117.148
67	1704.91	20.9719	118.183
68	3672.53	21.1316	120.599
69	12272.6	21.6004	127.692
70	72043.4	21.6949	129.12
71	8334.42	21.8421	131.349
72	1137.87	21.943	132.874
73	5324.34	22.1229	135.596
74	30878	22.1984	136.739
75	3566.98	22.2901	138.126
76	2378.37	22.3846	139.555
77	6906.16	22.6671	143.829
78	9696.02	22.9125	147.542
79	28588.7	23.2005	151.898

TABLE F-4 (continued)

80	41811.1	23.3125	153.593
81	2754.98	23.5109	156.595
82	4833.36	23.6064	158.04
83	2441.53	23.7167	159.708
84	3473.95	23.8756	162.112
85	1941.15	23.9635	163.442
86	1472.63	24.0078	164.112
87	3212.31	24.0882	165.328
88	18073.9	24.5722	172.651
89	8175.05	24.7338	175.096
90	3127.27	24.8227	176.44
91	1551.73	25.0967	180.585
92	1804.75	25.3699	184.719
93	1060.91	25.8797	192.431
94	4685.16	25.9409	193.357
95	6886.56	26.1795	196.966
96	3717.42	26.2526	198.072
97	41775.8	26.3658	199.785
98	5308.83	26.4921	202.458
99	5930.47	26.6461	205.836
100	2840.63	26.7323	207.726
101	1321.28	26.8396	210.079
102	9731.64	27.0996	215.78
103	1713.41	27.1765	217.467
104	3657.03	27.556	225.789
105	2313.55	27.9421	234.256
106	4120.29	28.0323	236.234
107	2418.81	28.1535	238.892
108	5230.41	28.2991	242.086
109	1131.29	28.38	243.86
110	2667.95	28.8738	254.688
111	1736.02	30.1385	282.424
112	11219.5	30.2046	283.873
113	22756.7	30.8637	298.327
114	1255.12	31.3444	309.841
115	5583.59	31.9951	325.672
116	1819	33.4781	361.755
117	11446	34.9294	397.066
118	7166	41.2586	497.01

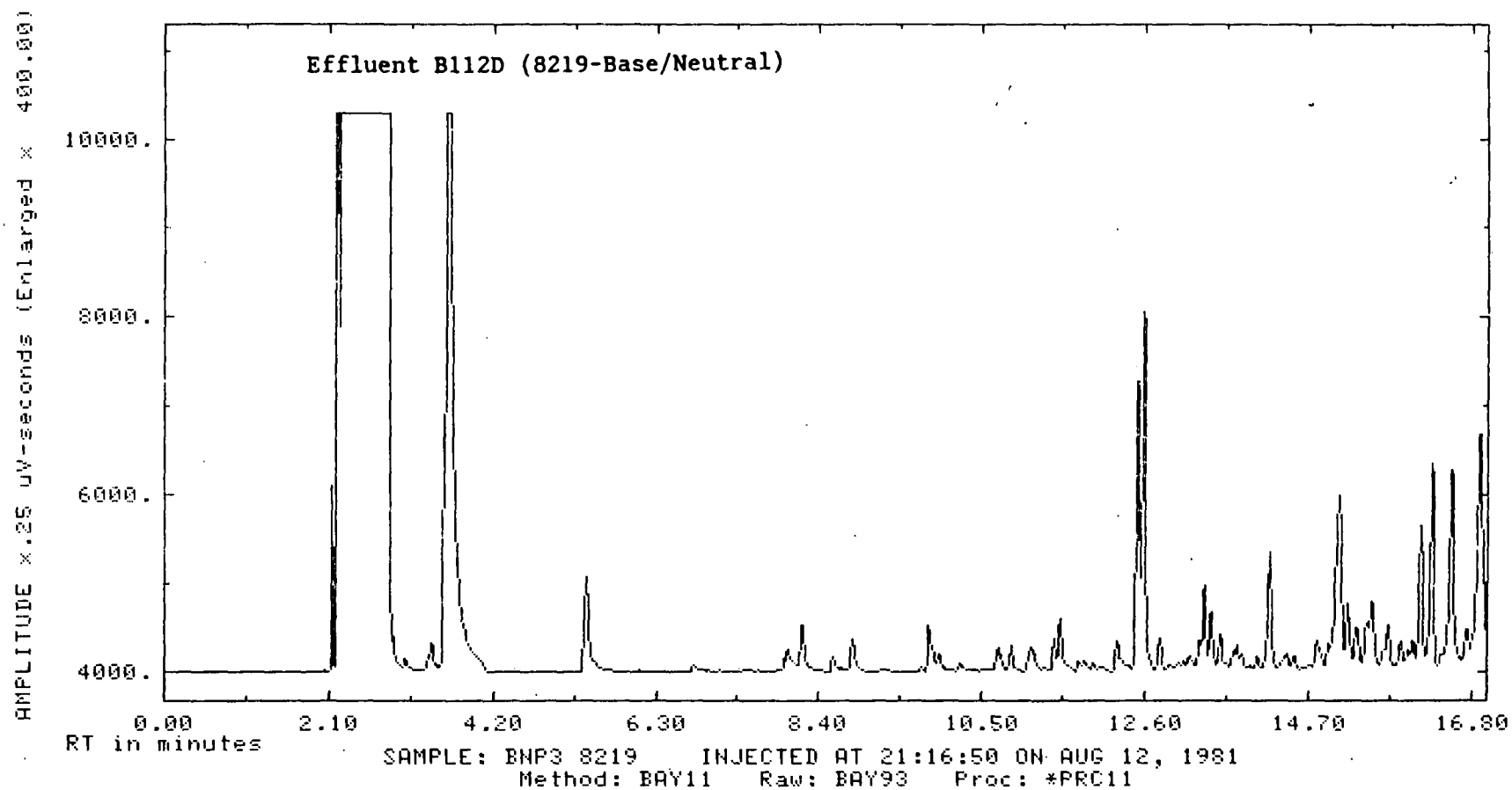


Figure F-4. FID/GC chromatogram of relative retention indices for components in the extractable organics base/neutral fraction from effluent B112D.

81-J

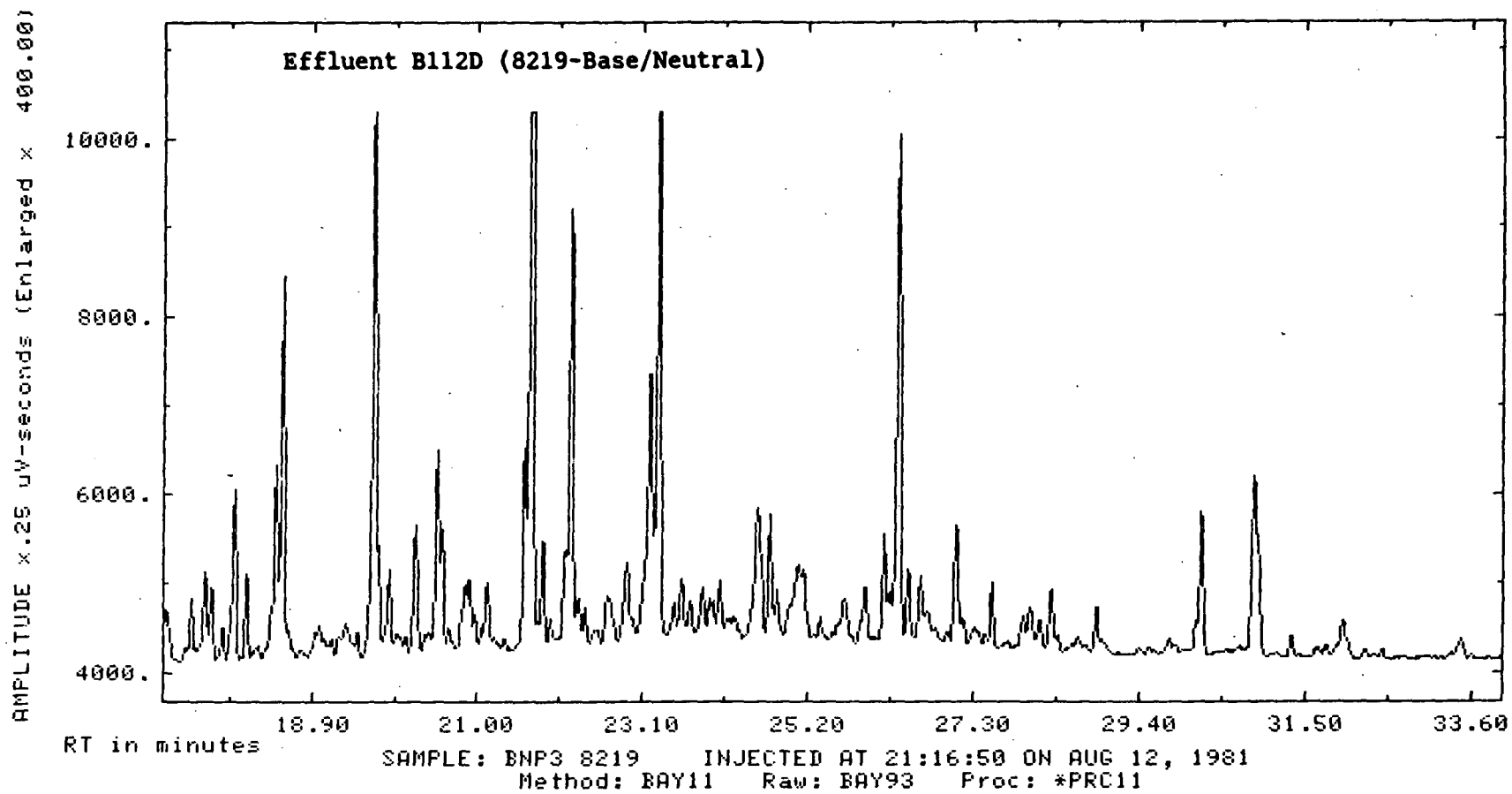


Figure F-4 (continued)

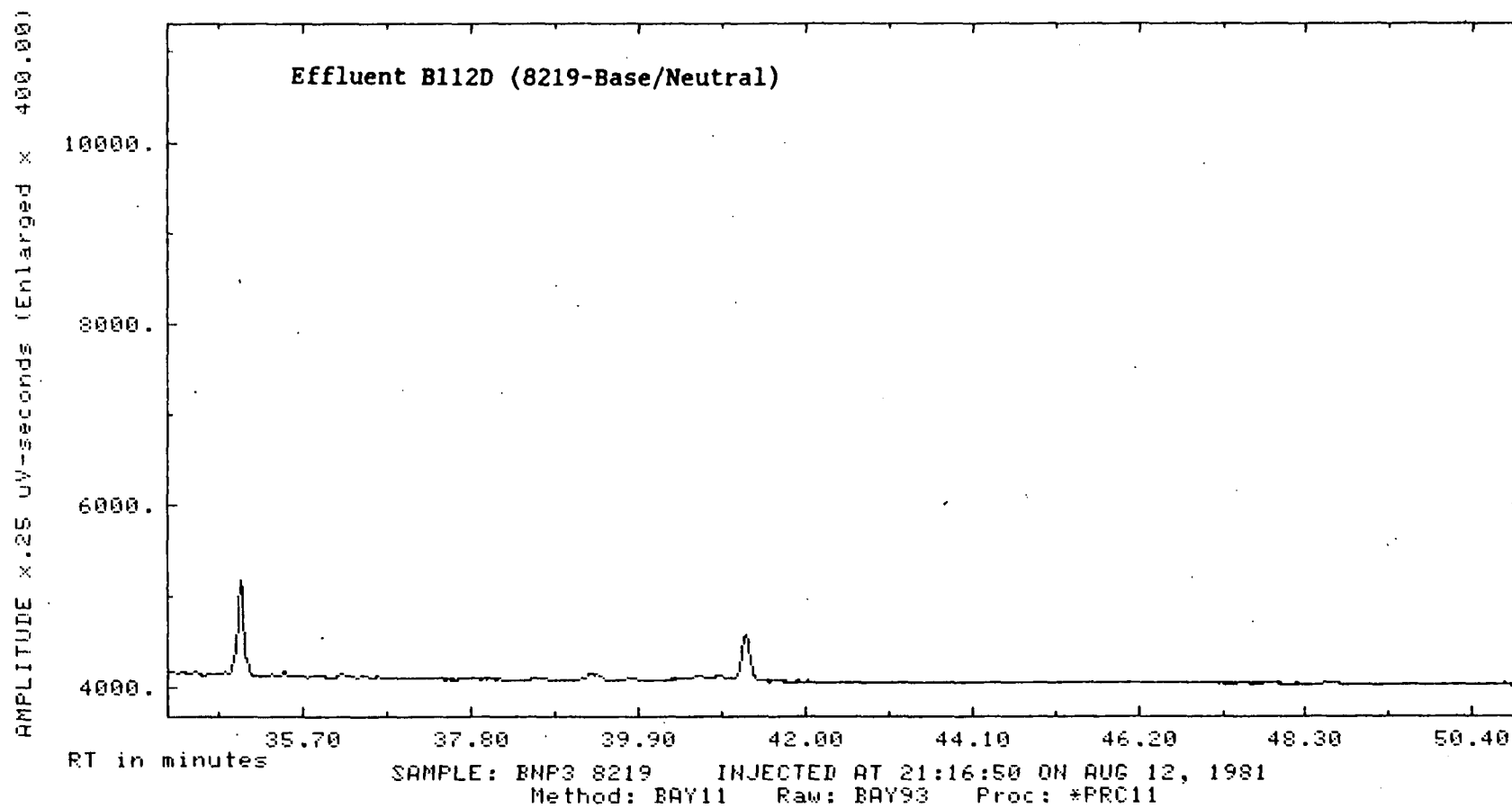


Figure F-4 (continued)

TABLE F-5. RELATIVE RETENTION INDICES FOR COMPONENTS
IN THE EXTRACTABLE ORGANICS ACID FRACTION
FROM EFFLUENT B119D, FID/GC

PROCESSED FILE: DUCK Effluent B119D (8205-Acid)
RAW FILE: BAY27

SAMPLE NAME: ANP3 8205

RELATIVE RETENTION VALUES

OUTPUT FILE: OPF2

PEAK#	AREA	TIME	INDEX
1	21606.1	2.09668	***
2	6.29105E+07	2.19375	***
3	11835.1	3.21388	***
4	13995.3	3.49747	***
5	129799.	3.55638	***
6	14990.8	4.04308	***
7	3857.44	7.6475	***
8	1187.44	8.46667	***
9	167781.	11.0221	***
10	1160.81	12.8413	***
11	1207.5	14.4792	***
12	5367.37	15.2469	***
13	11062.7	16.3004	***
14	6082.5	17.3403	***
15	17450.5	19.1779	***
16	5727.78	19.519	101.203
17	15178.4	19.6167	102.689
18	7941.81	21.9134	137.647
19	1903.75	24.3984	175.471
20	1847.5	24.9028	183.147
21	1898.5	26.0789	201.517
22	3004	27.0757	223.473
23	1532.44	27.755	238.436
24	2101.19	34.9915	406.449

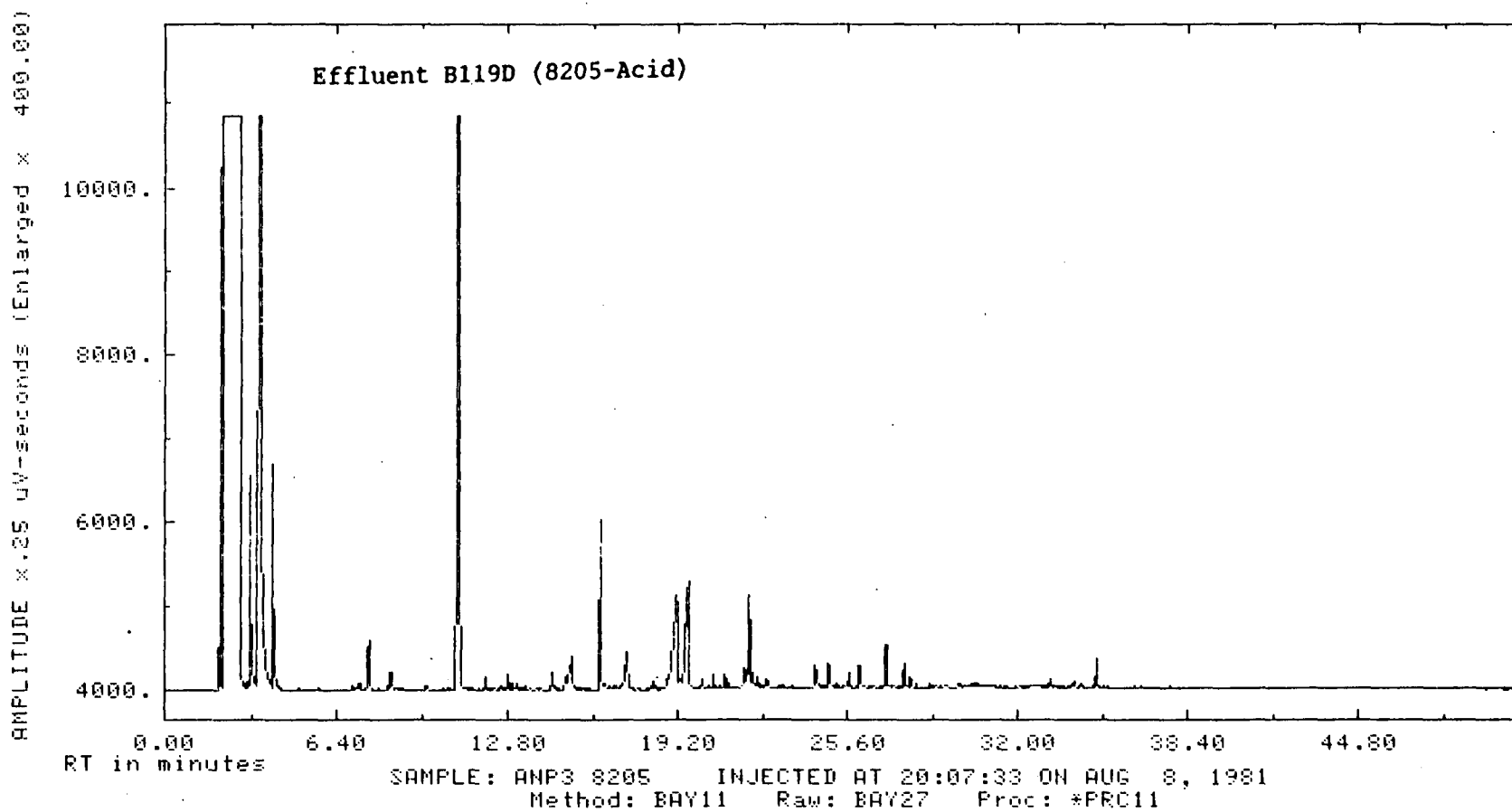


Figure F-5. FID/GC chromatogram of relative retention indices for components in the extractable organics acid fraction from effluent B119D.

TABLE F-6. RELATIVE RETENTION INDICES FOR COMPONENTS
IN THE EXTRACTABLE ORGANICS BASE/NEUTRAL
FRACTION FROM EFFLUENT B119D, FID/GC

PROCESSED FILE: DUCK Effluent B119D (8205-Base/Neutral)
RAW FILE: BAY71

SAMPLE NAME: BNP3 8205

RELATIVE RETENTION VALUES

OUTPUT FILE: OPF2

PEAK#	AREA	TIME	INDEX
1	4193.58	2.10802	***
2	98240.3	2.16831	***
3	5.52565E+07	2.21042	***
4	31484.2	3.21525	***
5	106838.	3.5565	***
6	9106.34	4.04542	***
7	1088.56	8.66458	***
8	14768	12.236	***
9	2304.5	14.1437	***
10	24456.1	16.3588	***
11	3224.31	18.3618	***
12	31594.2	19.3698	***
13	2792.5	19.8247	105.552
14	1118.55	27.3365	228.713
15	10031.9	27.8537	240.081
16	3320.64	28.0799	245.052
17	3362.31	28.7641	260.089
18	1049.71	28.963	264.462
19	2004.5	29.3995	274.056
20	1423.05	29.7562	281.896
21	3822.24	29.8714	284.427
22	33419.8	30.4896	298.013
23	1137.25	32.1701	339.263
24	16775.6	34.5176	397.224
25	3076.06	40.5507	497.22

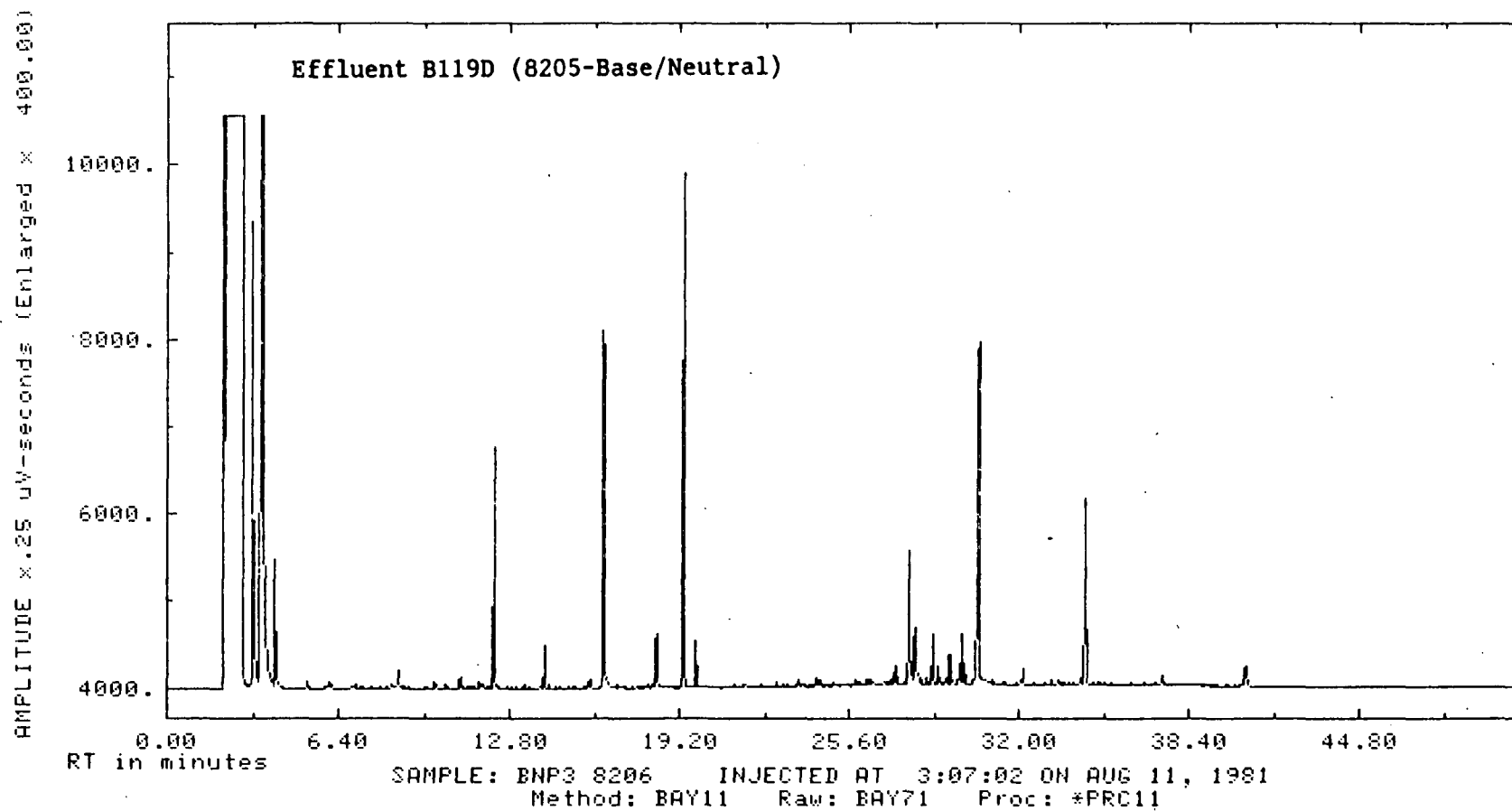


Figure F-6. FID/GC chromatogram of relative retention indices for components in the extractable organics base/neutral fraction from effluent B119D.

TABLE F-7. RELATIVE RETENTION INDICES FOR COMPONENTS
IN THE EXTRACTABLE ORGANICS ACID FRACTION
FROM EFFLUENT C150D, FID/GC

PROCESSED FILE: DUCK Effluent C150D (8237-Acid)
RAW FILE: BAY46
SAMPLE NAME: ANP3 8237

RELATIVE RETENTION VALUES

OUTPUT FILE: OFF2

PEAK#	AREA	TIME	INDEX
1	14298.5	2.08684	***
2	122608.	2.16512	***
3	5.89483E+07	2.18958	***
4	1141.1	2.85129	***
5	6635.63	3.47014	***
6	94355.6	3.53092	***
7	1297	6.11071	***
8	1036.19	7.63875	***
9	1498	8.84167	***
10	12283.5	10.9096	***
11	5854.53	11.2781	***
12	1082.37	12.7118	***
13	18066.7	13.1645	***
14	1179.81	13.6986	***
15	51097.7	15.6725	***
16	25502.4	17.1002	***
17	1164.75	17.2932	***
18	4678.48	17.8427	***
19	7151.25	18.578	***
20	21906	19.1411	***

TABLE F-7 (continued)

21	70929.7	22.5001	146.578
22	1195.89	23.1736	156.828
23	1462.22	23.3257	159.143
24	1321.5	23.8212	166.686
25	2110.75	24.7234	180.418
26	21424.7	25.3532	190.003
27	1199.25	26.18	203.745
28	1719.12	26.3004	206.397
29	1437.62	26.6747	214.641
30	1659.37	26.8042	217.493
31	6726.75	27.8071	239.585
32	20506.6	28.0755	245.496
33	1035	28.5448	255.832
34	17180.2	30.3123	294.764
35	9519.75	30.5696	300.485
36	1735.12	32.6833	352.675
37	2803.25	32.8904	357.788
38	14241.5	33.3161	368.3

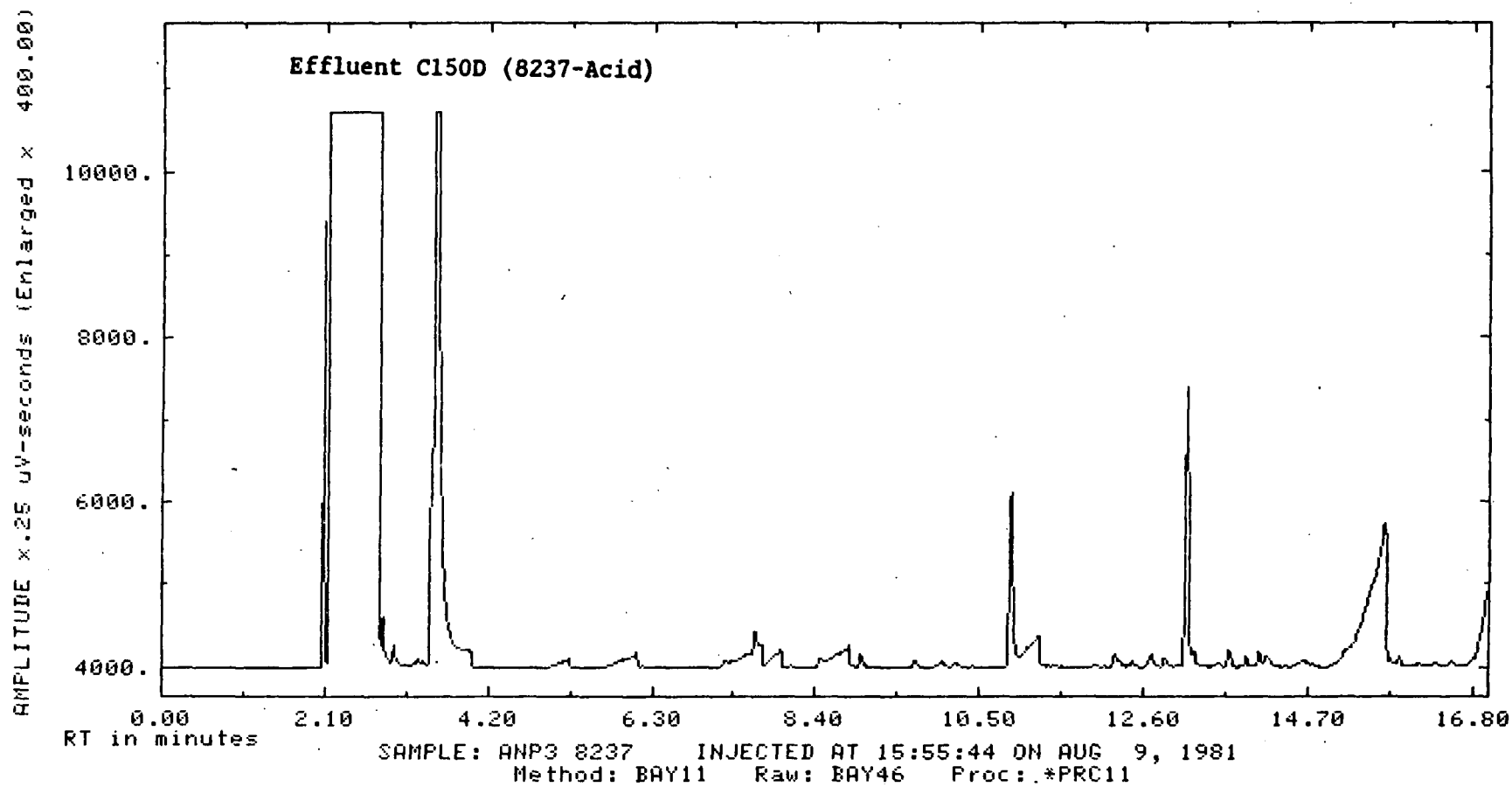


Figure F-7. FID/GC chromatogram of relative retention indices for components in the extractable organics acid fraction from effluent C150D.

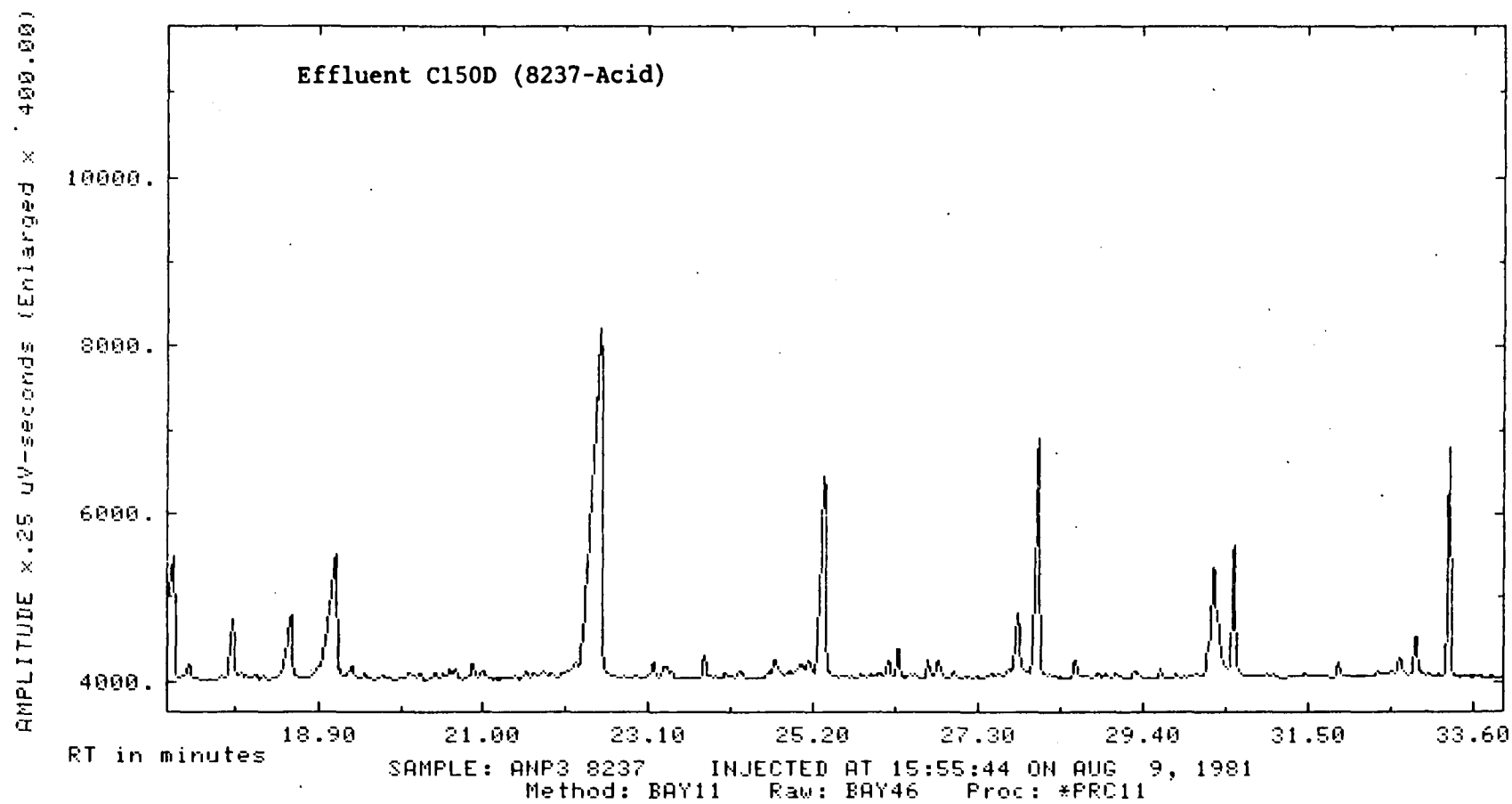


Figure F-7 (continued)

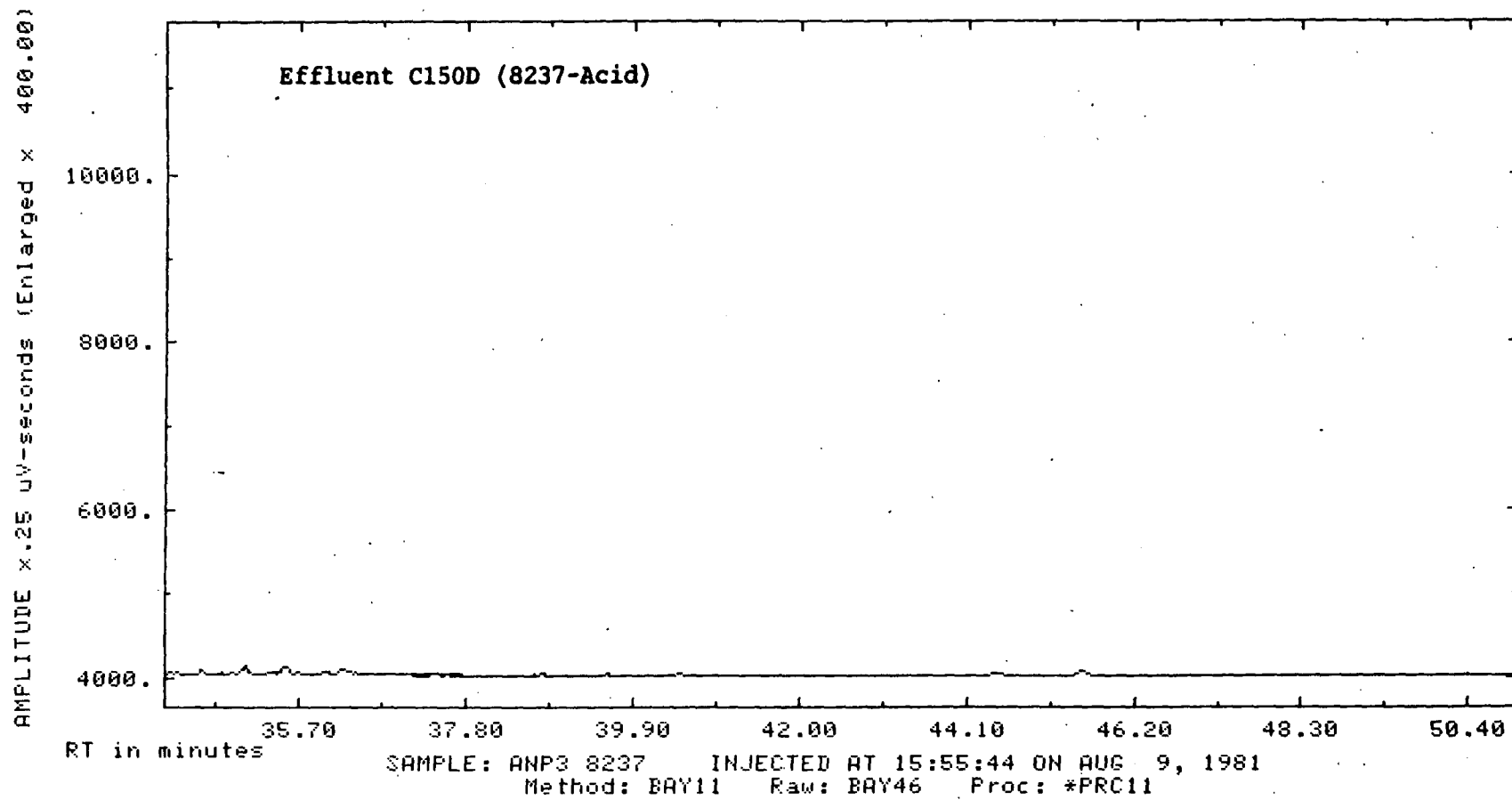


Figure F-7 (continued)

TABLE F-8. RELATIVE RETENTION INDICES FOR COMPONENTS
IN THE EXTRACTABLE ORGANICS BASE/NEUTRAL
FRACTION FROM EFFLUENT C150D, FID/GC

PROCESSED FILE: *PRC11 Effluent C150D (8237-Base/Neutral)
RAW FILE: BAY100

SAMPLE NAME: BNP3 8237

RELATIVE RETENTION VALUES

OUTPUT FILE: OFF1

PEAK#	AREA	TIME	INDEX
1	18396.7	2.18178	***
2	194497.	2.26247	***
3	5.66849E+07	2.29167	***
4	1216.08	2.98653	***
5	2675.31	3.48125	***
6	11494.7	3.64482	***
7	147085.	3.70998	***
8	1594.25	5.4875	***
9	1222.81	9.25238	***
10	1081.87	10.7042	***
11	1245.53	12.005	***
12	1038.59	12.0847	***
13	1022.99	12.317	***
14	1246.27	12.3964	***
15	18550.2	12.5264	***
16	1052.81	13.8542	***
17	5660.69	14.3975	***
18	2050.08	14.845	***
19	8569.45	15.0675	***
20	2240.21	15.1392	***
21	2400.94	15.5766	***
22	4415.37	15.6782	***

TABLE F-8 (continued)

23	1925.55	15.9589	***
24	18398.5	16.0715	***
25	3322.8	18.3225	***
26	1084.36	19.1427	***
27	24520.2	19.6822	***
28	8406	21.1906	121.491
29	2641.25	22.851	146.612
30	2762.67	23.2988	153.386
31	3169.25	24.4177	170.313
32	2074.78	27.1625	217.16
33	4122.45	27.3335	220.911
34	1023.27	27.4297	223.019
35	1277.75	27.8514	232.267
36	3545.25	28.3753	243.758
37	2330.44	29.9881	279.125
38	2982.75	30.6449	293.529
39	15836.1	30.8602	298.249
40	1340	34.2042	379.42
41	8329.62	34.9284	397.041
42	1594.75	35.4529	406.295
43	6385.5	41.2599	497.03
44	5028.25	45.4969	542.734
45	7603.06	46.6392	554.796

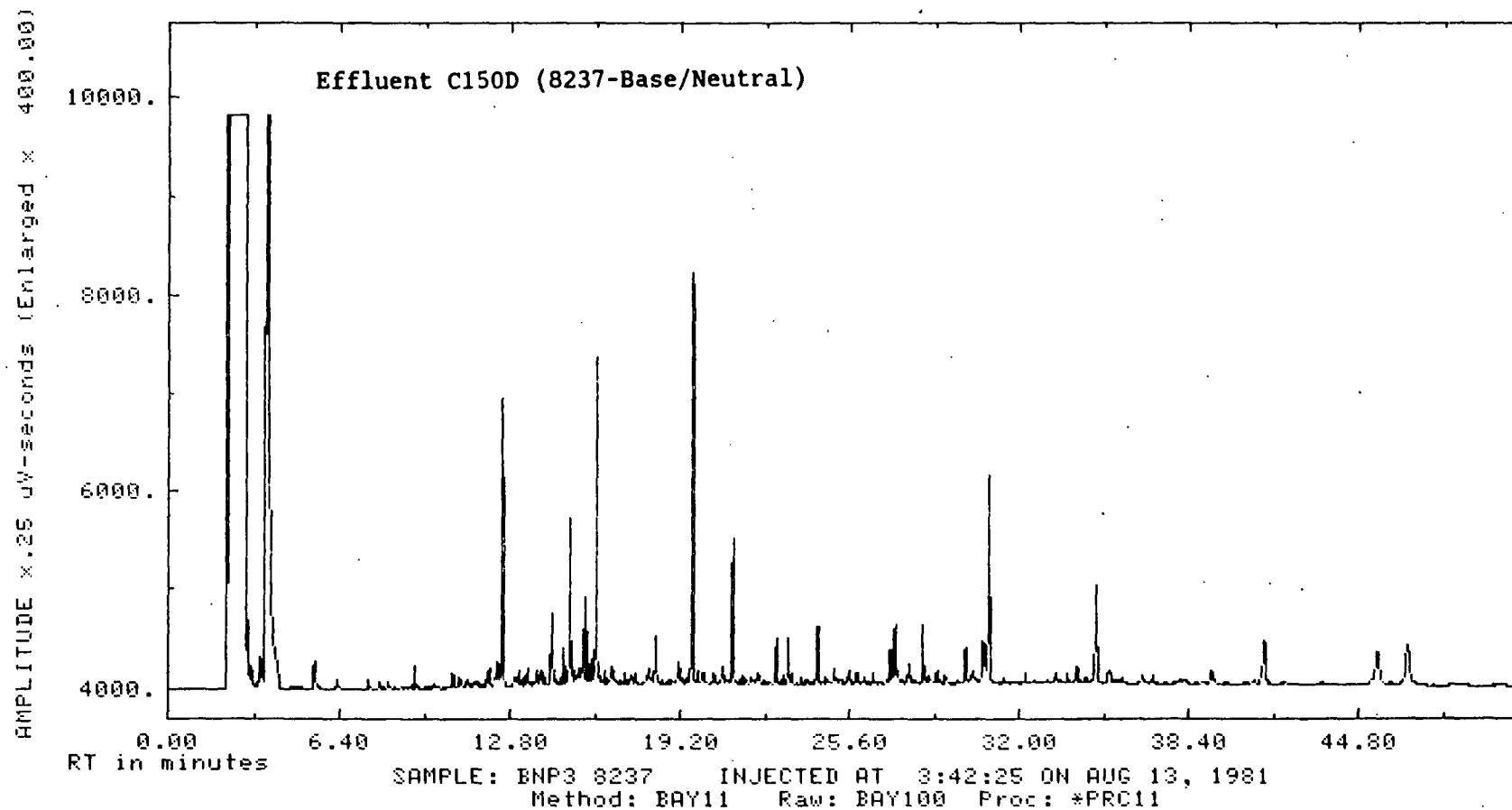


Figure F-8. FID/GC chromatogram of relative retention indices for components in the extractable organics base/neutral fraction from effluent C150D.

TABLE F-9. RELATIVE RETENTION INDICES FOR COMPONENTS
IN THE EXTRACTABLE ORGANICS ACID FRACTION
FROM EFFLUENT C155D, FID/GC

PROCESSED FILE: DUCK Effluent C155D (8230-Acid)
RAW FILE: RAY44

SAMPLE NAME: ANP3 8230

RELATIVE RETENTION VALUES

OUTPUT FILE: OPF2

PEAK#	AREA	TIME	INDEX
1	15557.5	2.08692	***
2	6.05553E+07	2.1875	***
3	1929.27	2.85339	***
4	1689.47	2.99375	***
5	11364.6	3.47422	***
6	160645.	3.53508	***
7	7055.25	7.63634	***
8	2103.36	8.45833	***
9	4625.25	8.97869	***
10	1280	9.67167	***
11	24439.9	10.924	***
12	2243.69	11.1508	***
13	1058.31	12.0121	***
14	2161.56	12.2427	***
15	2133.75	12.7222	***
16	3204.02	12.872	***
17	1334.12	14.084	***
18	1349.12	14.1754	***
19	27548.7	15.5771	***
20	2231.38	15.6653	***
21	1017	17.201	***
22	4950	17.8073	***
23	6156.5	18.5516	***
24	5013.2	19.0451	***
25	5609.92	21.7479	135.128
26	2867.5	22.2889	143.362
27	1921.12	23.3115	158.926
28	3440.44	25.2795	188.882
29	2202.12	26.8083	217.585
30	1079.5	27.4757	232.284
31	1804	27.7958	239.336
32	4114.61	28.0256	244.396
33	1419.12	30.2854	294.172
34	1455.75	30.5349	299.667

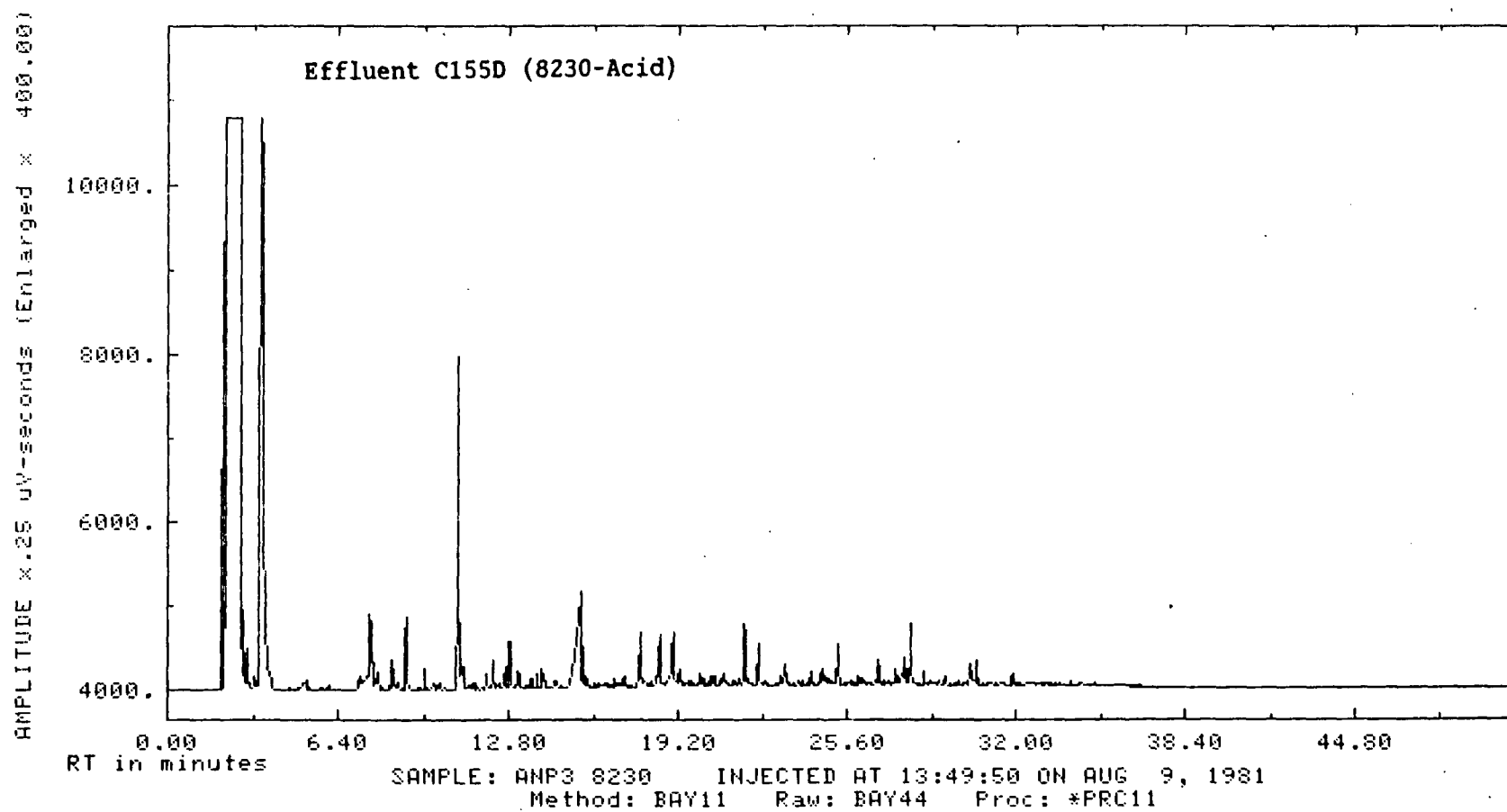


Figure F-9. FID/GC chromatogram of relative retention indices for components in the extractable organics acid fraction from effluent C155D.

TABLE F-10. RELATIVE RETENTION INDICES FOR COMPONENTS
IN THE EXTRACTABLE ORGANICS BASE/NEUTRAL
FRACTION FROM EFFLUENT C155D, FID/GC

PROCESSED FILE: *PRC11 Effluent C155D (8230-Base/Neutral)
RAW FILE: BAY96

SAMPLE NAME: BNF3 8230

RELATIVE RETENTION VALUES

OUTPUT FILE: OFF1

PEAK#	AREA	TIME	INDEX
1	8148.84	2.17845	***
2	92661.	2.26205	***
3	5.61383E+07	2.28542	***
4	1485.75 .	3.47222	***
5	153735.	3.70013	***
6	2601.75	5.47833	***
7	1667.75	8.2368	***
8	1543.19	8.91562	***
9	4413.75	9.24314	***
10	5008.72	10.7333	***
11	1730.62	10.9031	***
12	1652	11.2	***
13	3087	11.3301	***
14	5555.56	11.54	***
15	1702.08	12.0007	***
16	1774.81	12.2595	***
17	1271.64	12.3854	***
18	26019.8	12.5245	***
19	1127.93	12.95	***
20	1498.3	13.0388	***
21	1202.97	13.1104	***
22	1180.6	13.191	***
23	1496	13.3375	***
24	2815.94	13.9995	***
25	6246.78	14.3979	***
26	2298.73	14.8385	***
27	5708.26	15.0663	***
28	1756.02	15.1368	***
29	2083.05	15.2042	***
30	1136.12	15.2929	***
31	2407.43	15.381	***
32	1765.06	15.525	***

TABLE F-10 (continued)

33	3847.73	15.5714	***
34	3501.27	15.6773	***
35	1394.8	15.7958	***
36	5430.03	15.9594	***
37	19232.4	16.0701	***
38	2216.01	16.1233	***
39	2230	16.4062	***
40	1782.12	17.1613	***
41	1234.77	17.2904	***
42	1696.24	17.3808	***
43	3007.61	17.5556	***
44	3220.84	18.0723	***
45	2072.69	18.1782	***
46	3670.64	18.3217	***
47	1226.67	18.5187	***
48	1438.48	19.1448	***
49	1096.87	19.4808	***
50	41254.	19.6898	***
51	1890.02	19.8854	101.746
52	1032.87	20.9604	118.009
53	1636.4	21.5875	127.496
54	1079.94	22.1083	135.376
55	1715.84	23.2969	153.357
56	1089.56	27.1517	216.923
57	1028.64	27.3302	220.838
58	1572.5	29.9833	279.021
59	21904.1	30.8603	298.253
60	1839.31	33.8479	370.752
61	12924.2	34.9345	397.19
62	2553	35.3802	405.159
63	2837	39.2667	465.885
64	12961.7	41.2727	497.229
65	3366.87	46.6375	554.778

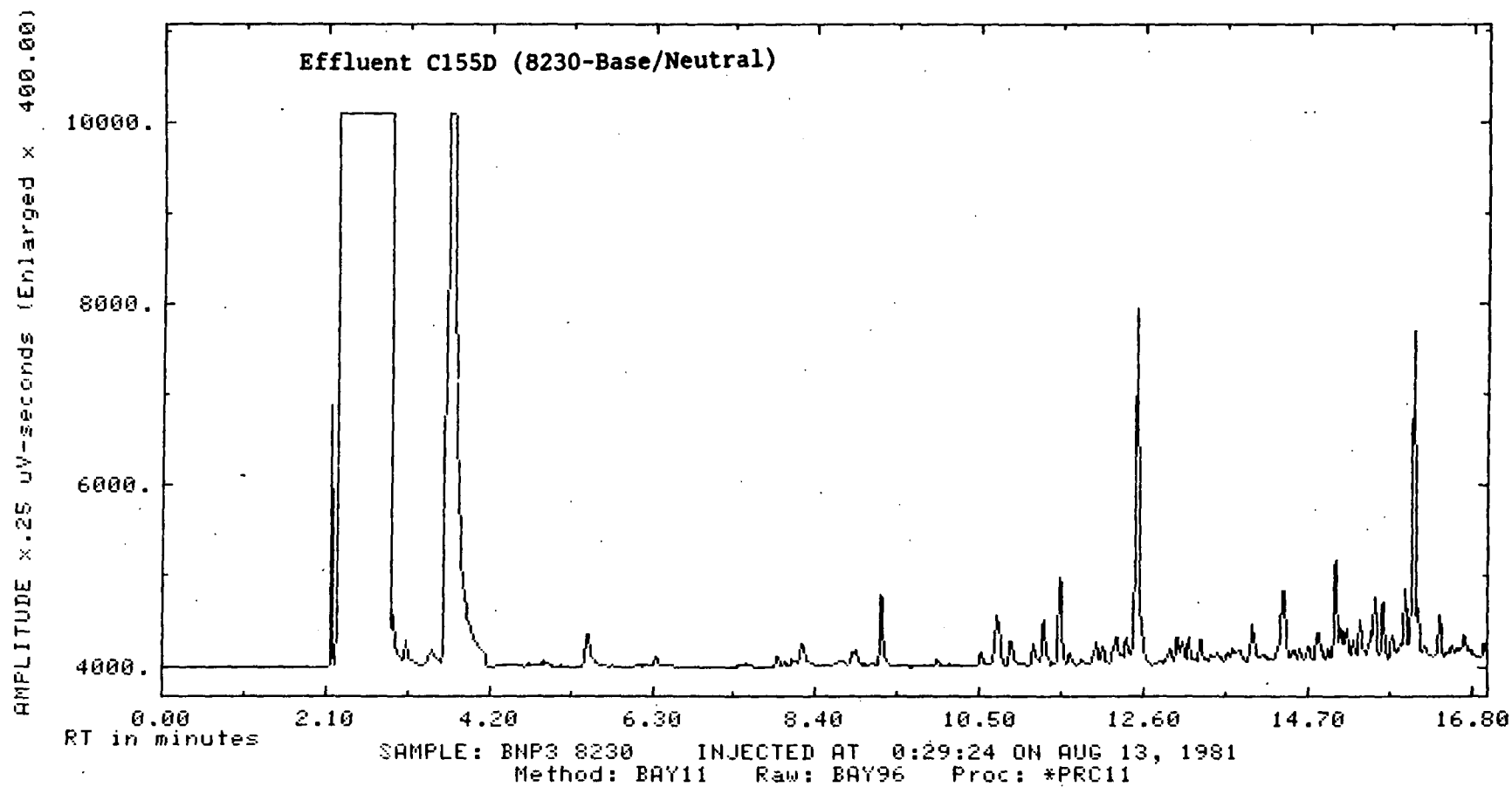


Figure F-10. FID/GC chromatogram of relative retention indices for components in the extractable organics base/neutral fraction from effluent C155D.

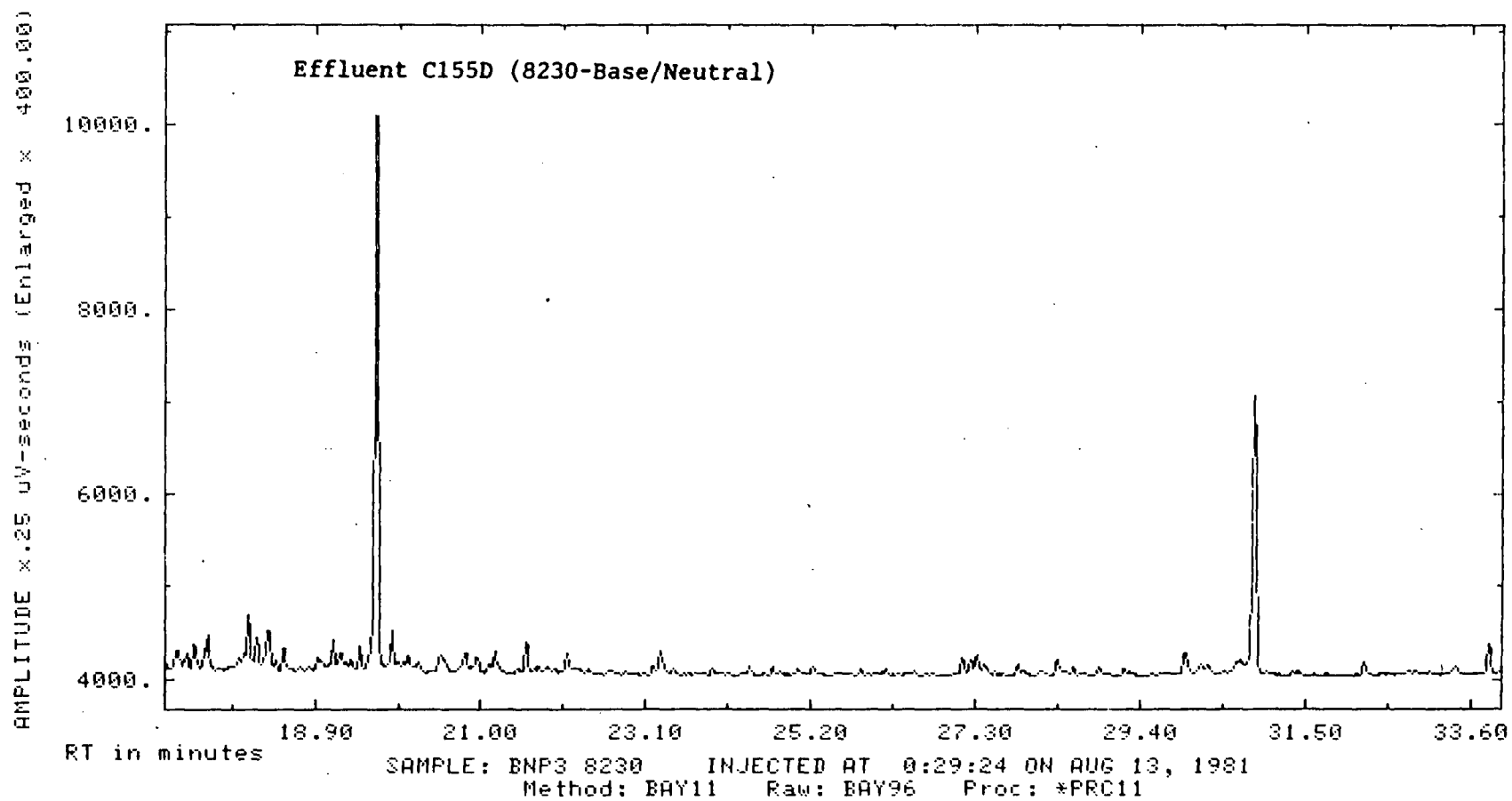


Figure F-10 (continued)

F-38

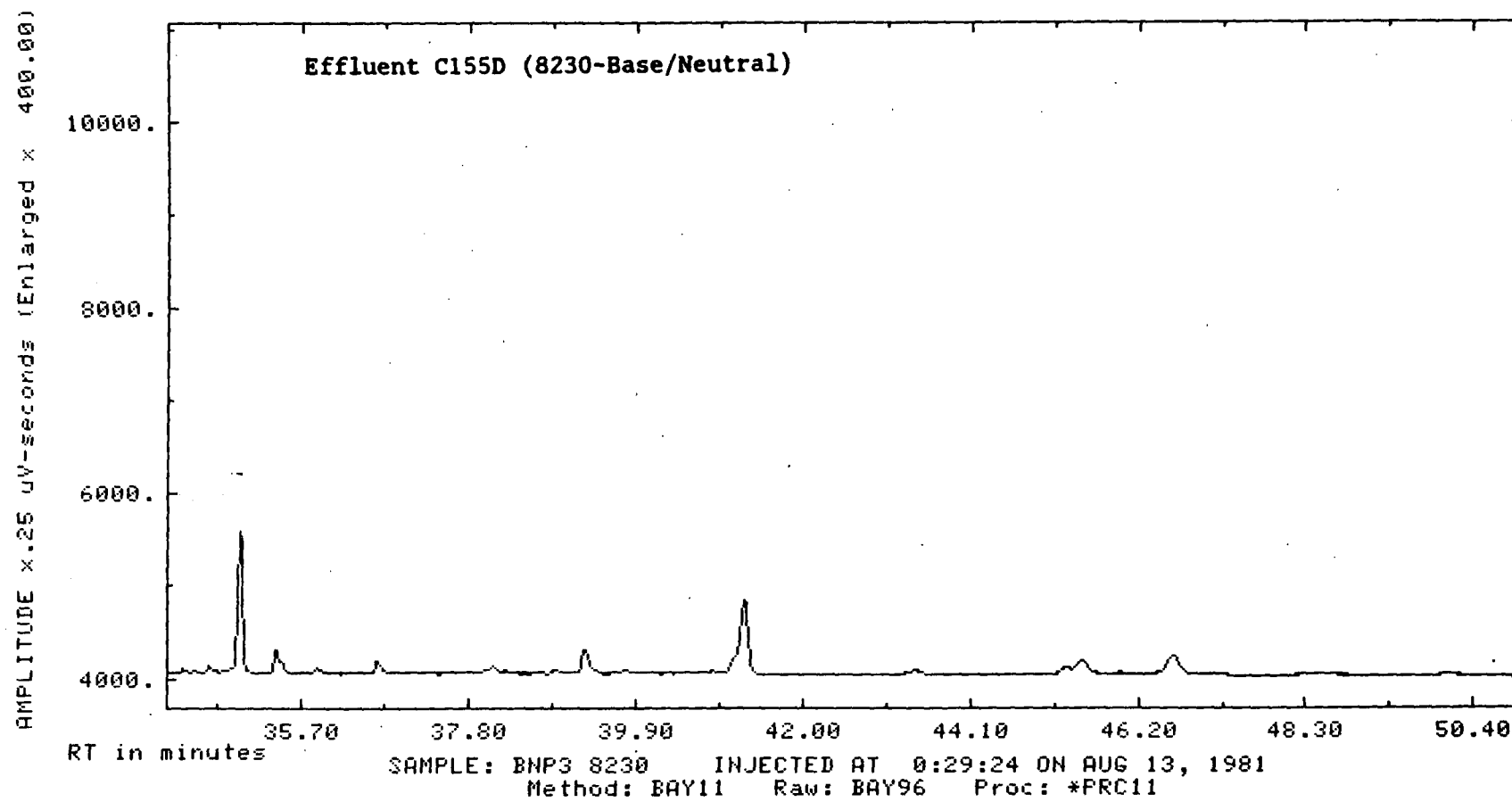


Figure F-10 (continued)

TABLE F-11. RELATIVE RETENTION INDICES FOR COMPONENTS
IN THE EXTRACTABLE ORGANICS ACID FRACTION
FROM EFFLUENT C156D, FID/GC

PROCESSED FILE: DUCK Effluent C156D (8238-Acid)
RAW FILE: BAY48

SAMPLE NAME: ANP3 8238

RELATIVE RETENTION VALUES

OUTPUT FILE: OFF2

PEAK#	AREA	TIME	INDEX
1	19276.4	2.08604	***
2	168929.	2.15969	***
3	5.91567E+07	2.18958	***
4	1776.17	2.85322	***
5	1518	2.99231	***
6	9194.19	3.47007	***
7	138195.	3.53263	***
8	1633	7.63899	***
9	7375.75	8.07083	***
10	5733.5	8.32083	***
11	5999.69	8.99261	***
12	4660.37	10.5508	***
13	25542	10.9338	***
14	9015.94	11.4562	***
15	13878.8	12.2638	***
16	2388.75	12.7861	***
17	1339.94	12.9214	***
18	36840.4	13.1924	***
19	1591.33	13.3503	***
20	2648.75	13.712	***

TABLE F-11 (continued)

21	9570.31	14.4008	***
22	49998.5	17.2289	***
23	2664.31	17.3861	***
24	6323.94	17.9083	***
25	21746.8	18.6967	***
26	32229.7	19.2177	***
27	1315.69	19.7406	104.576
28	1049	20.1021	110.077
29	1453.11	20.8917	122.095
30	1671.89	21.0382	124.326
31	1618	21.7656	135.398
32	71533.5	22.5127	146.768
33	1218.69	23.351	159.529
34	1294	23.8333	166.87
35	12860.6	25.3395	189.794
36	1901.25	26.8177	217.791
37	2831.5	27.8031	239.496
38	6087.75	28.0392	244.696
39	5027	30.3063	294.631
40	2145.56	30.5477	299.948
41	1863.69	32.8979	357.973

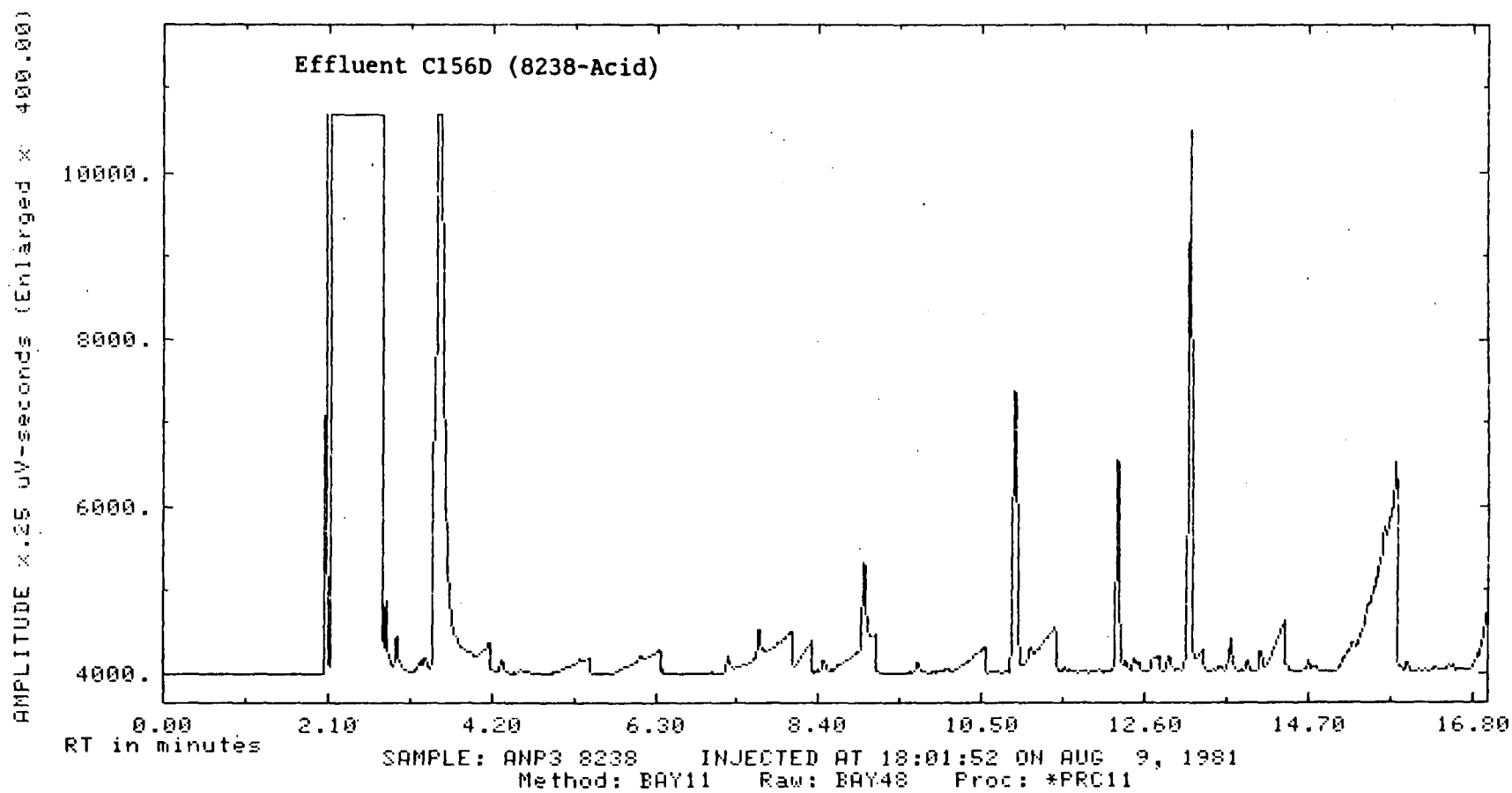


Figure F-11. FID/GC chromatogram of relative retention indices for components in the extractable organics acid fraction from effluent C156D.

F-42

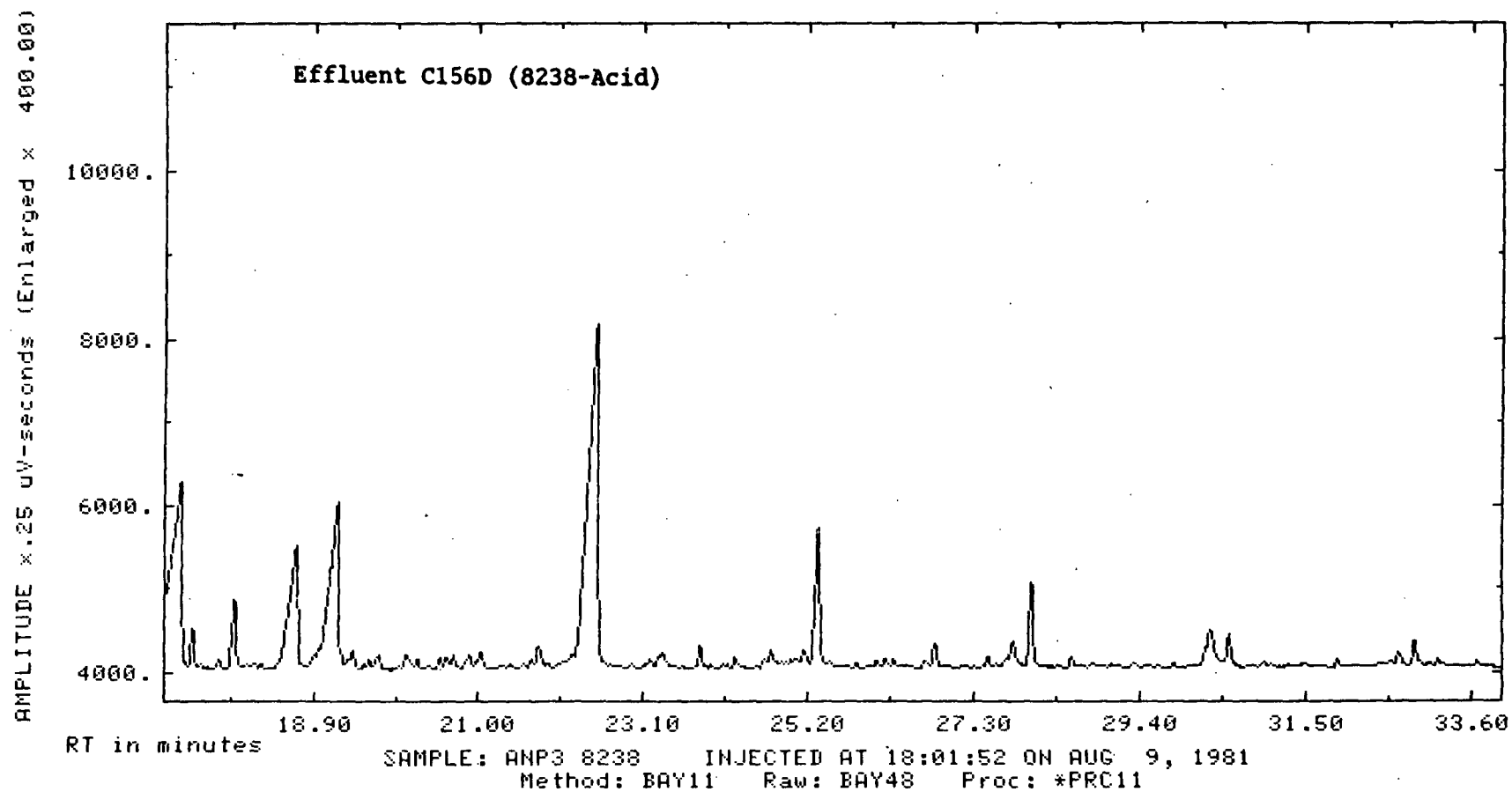


Figure F-11 (continued)

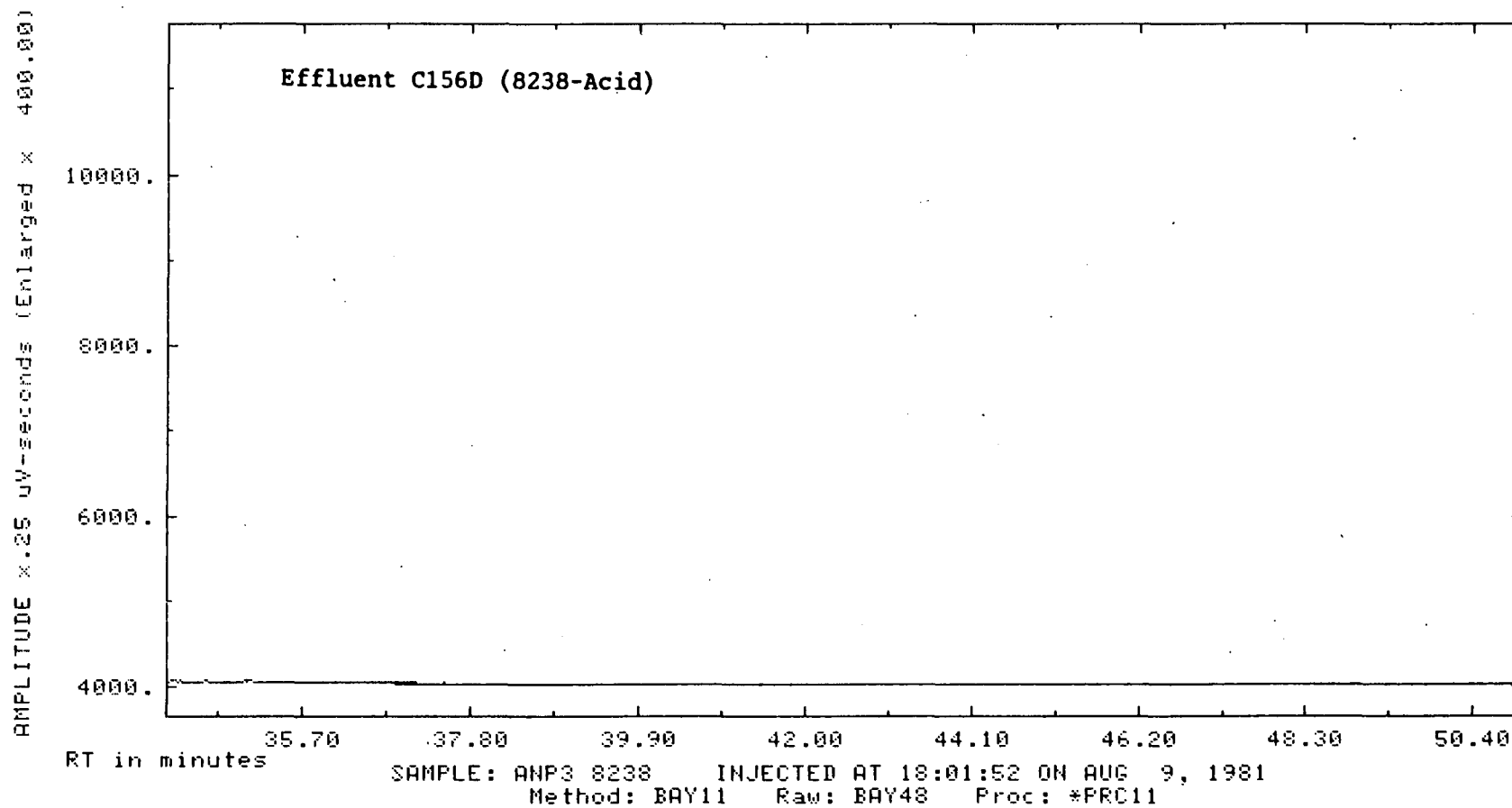


Figure F-11 (continued)

TABLE F-12. RELATIVE RETENTION INDICES FOR COMPONENTS
IN THE EXTRACTABLE ORGANICS BASE/NEUTRAL
FRACTION FROM EFFLUENT C156D, FID/GC

PROCESSED FILE: *PRC11 Effluent C156D (8238-Base/Neutral)
RAW FILE: BAY101

SAMPLE NAME: BNP3 8238

RELATIVE RETENTION VALUES

OUTPUT FILE: OFF1

PEAK#	AREA	TIME	INDEX
1	21251.3	2.17635	***
2	105811.	2.26167	***
3	5.79440E+07	2.28542	***
4	2230.75	3.47674	***
5	1645.26	3.50521	***
6	8960.51	3.63943	***
7	112584.	3.70246	***
8	1649.5	8.2475	***
9	5366.69	9.24702	***
10	5004.19	10.704	***
11	3132.25	11.3307	***
12	2174.83	11.5422	***
13	1457.91	11.6608	***
14	1382.7	12.0042	***
15	1385.35	12.3917	***
16	28402.9	12.5324	***
17	1750.83	13.3306	***
18	1788	14.0021	***
19	5438.92	14.4014	***
20	1580.94	14.8443	***

TABLE F-12 (continued)

21	5749.57	15.0663	***
22	1138.41	15.1365	***
23	3886.95	15.5741	***
24	2287.66	15.6774	***
25	3830.14	15.9628	***
26	16868.1	16.0708	***
27	1111.87	17.5583	***
28	1810.57	18.1333	***
29	3405.84	18.3255	***
30	1015.11	19.1443	***
31	18212.2	19.6825	***
32	2882.06	21.1889	121.466
33	1070.75	22.1125	135.439
34	1629	23.2983	153.379
35	1605.19	27.1558	217.014
36	1031.25	27.85	232.237
37	11266.7	30.8528	298.088
38	5630.31	34.9295	397.067
39	4208.12	41.2615	497.054

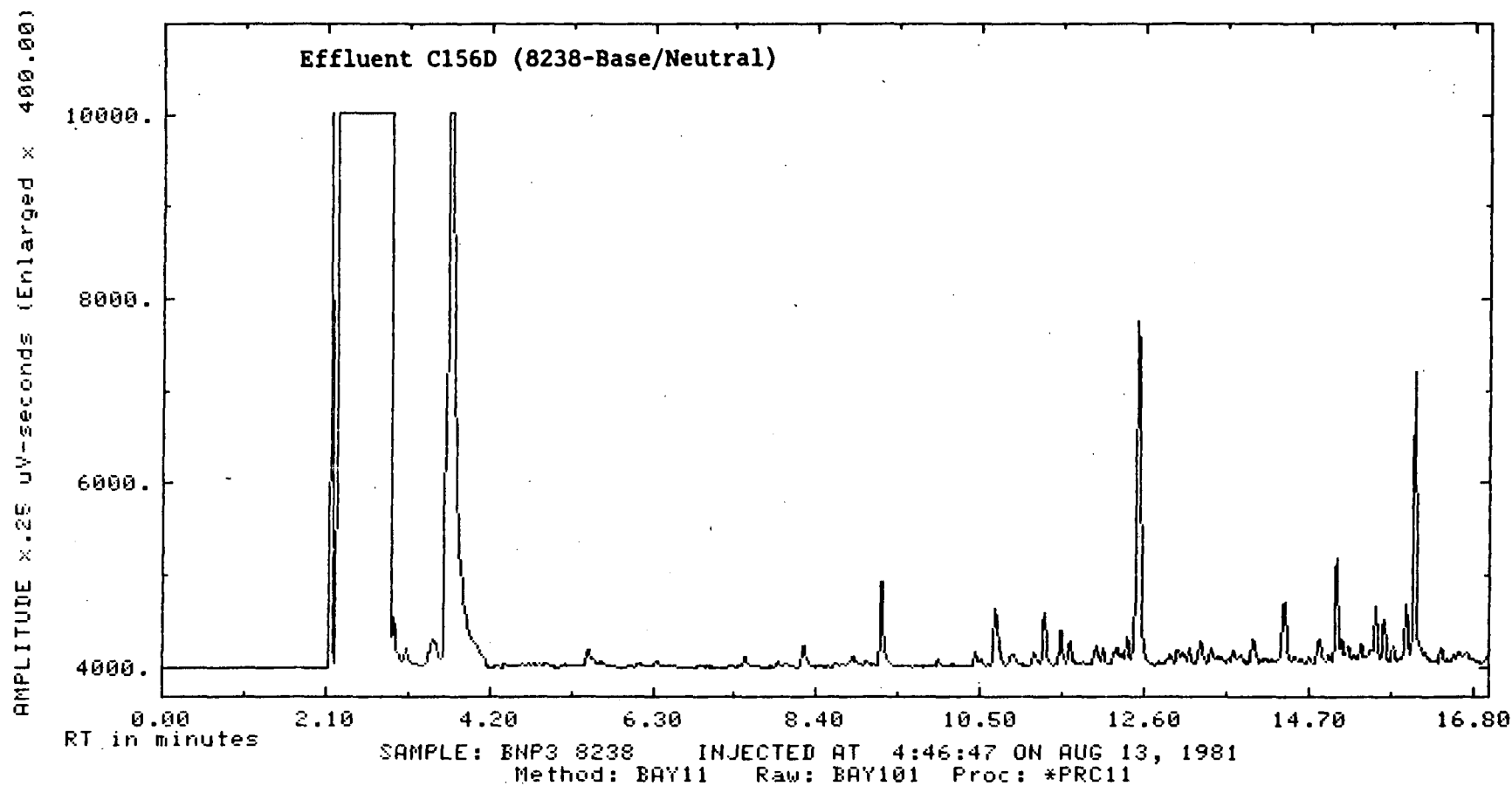


Figure F-12. FID/GC chromatogram of relative retention indices for components in the extractable organics base/neutral fraction from effluent C156D.

F-47

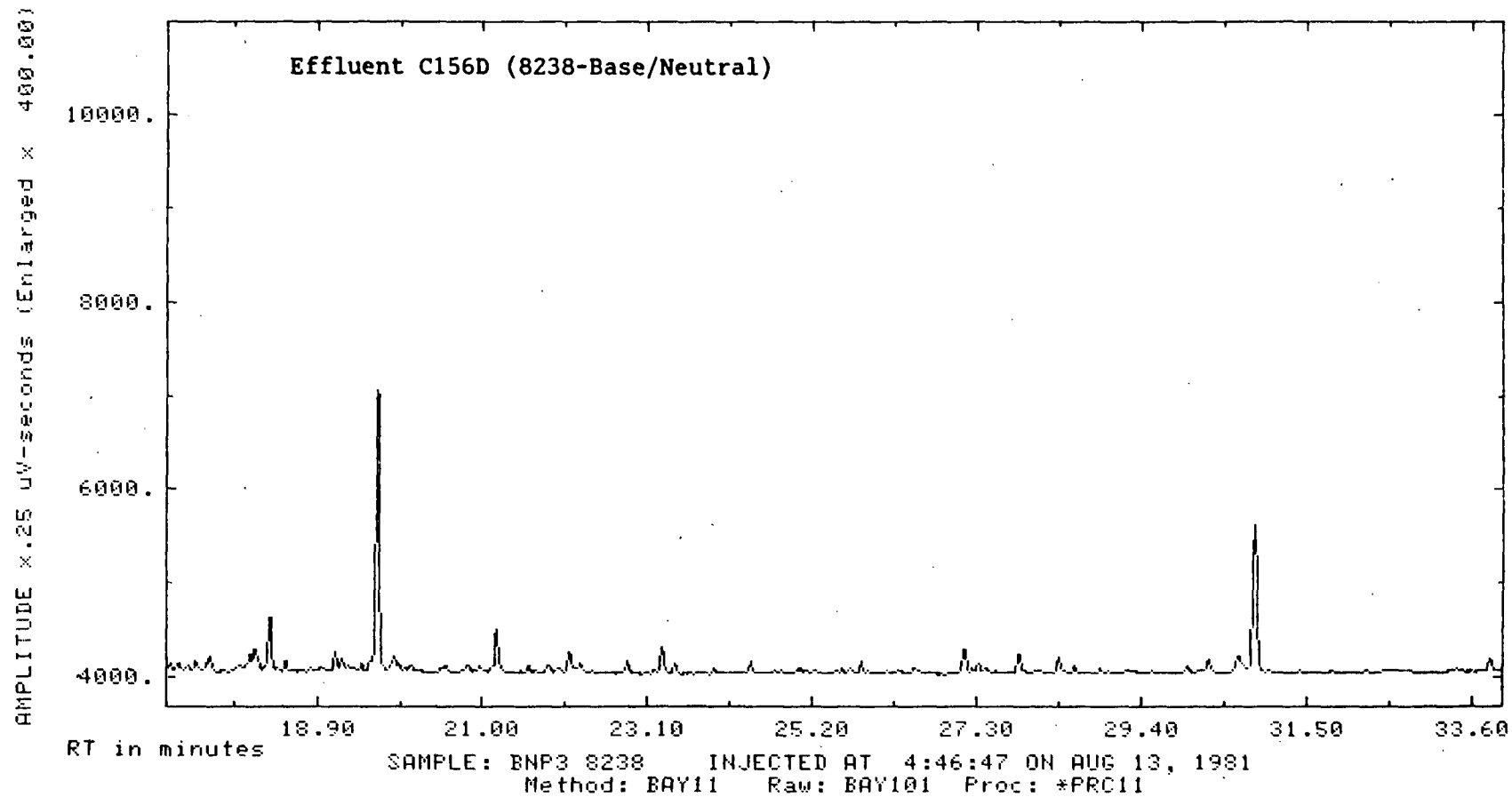


Figure F-12 (continued)

F-48

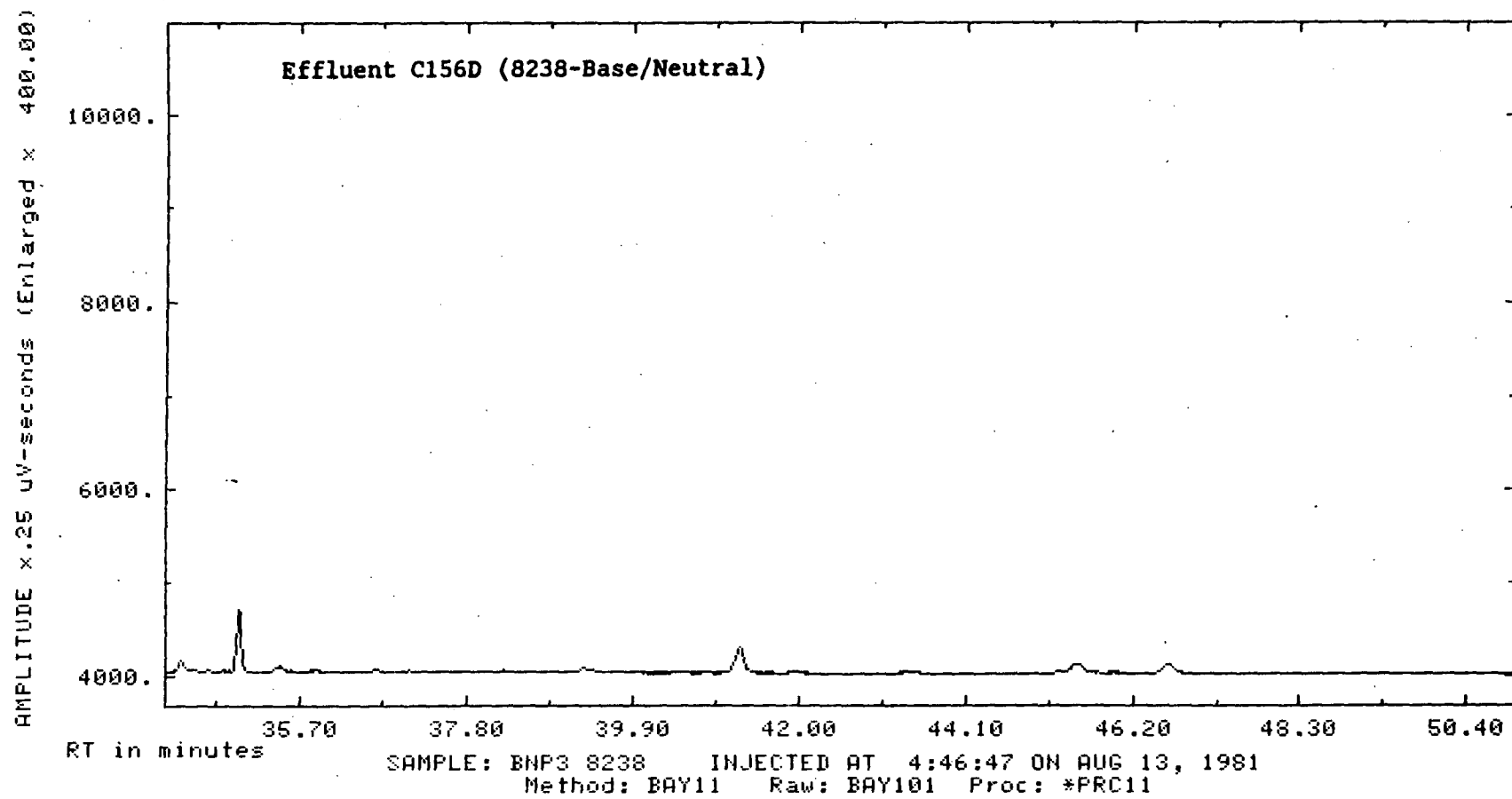


Figure F-12 (continued)

TABLE F-13. RELATIVE RETENTION INDICES FOR COMPONENTS
IN THE EXTRACTABLE ORGANICS ACID FRACTION
FROM EFFLUENT C157D, FID/GC

PROCESSED FILE: DUCK Effluent C157D (8211-Acid)
RAW FILE: BAY36

SAMPLE NAME: ANF3 8211

RELATIVE RETENTION VALUES

OUTPUT FILE: OFF2

PEAK#	AREA	TIME	INDEX
1	12667.7	2.0892	***
2	6.03088E+07	2.18958	***
3	9403.31	3.47756	***
4	96749.9	3.53771	***
5	2600.87	7.63472	***
6	19032.1	10.9051	***
7	5789.25	16.9444	***

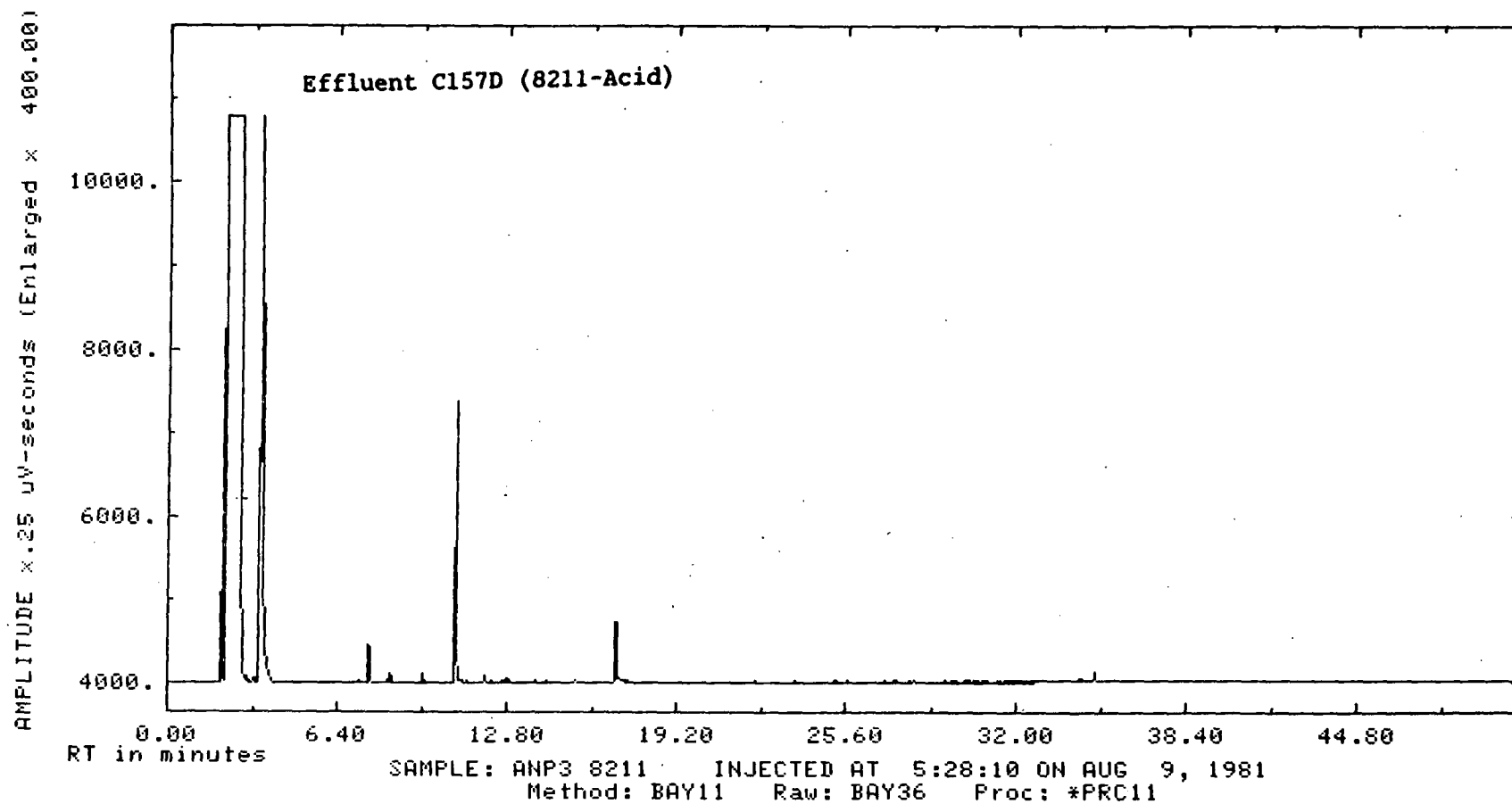


Figure F-13. FID/GC chromatogram of relative retention indices for components in the extractable organics acid fraction from effluent C157D.

TABLE F-14. RELATIVE RETENTION INDICES FOR COMPONENTS
IN THE EXTRACTABLE ORGANICS BASE/NEUTRAL
FRACTION FROM EFFLUENT C157D, FID/GC

PROCESSED FILE: *PRC11 Effluent C157D (8211-Base/Neutral)
RAW FILE: BAY79
SAMPLE NAME: BNP3 8211

RELATIVE RETENTION VALUES

OUTPUT FILE: OFF1

PEAK#	AREA	TIME	INDEX
1	2734.25	2.12468	***
2	56211.2	2.19117	***
3	5.50257E+07	2.225	***
4	4473.45	3.51736	***
5	83169.	3.58436	***
6	4016.92	12.1181	***
7	20178.1	12.2499	***
8	3964.94	16.9598	***
9	36718.7	19.3738	***
10	2561.87	24.7568	180.622
11	1400.75	27.8135	239.285
12	1060.87	28.0389	244.249
13	3403.66	29.6554	279.854
14	41746.4	30.4978	298.41
15	18028.2	34.5152	397.412
16	3611.5	40.5514	497.236

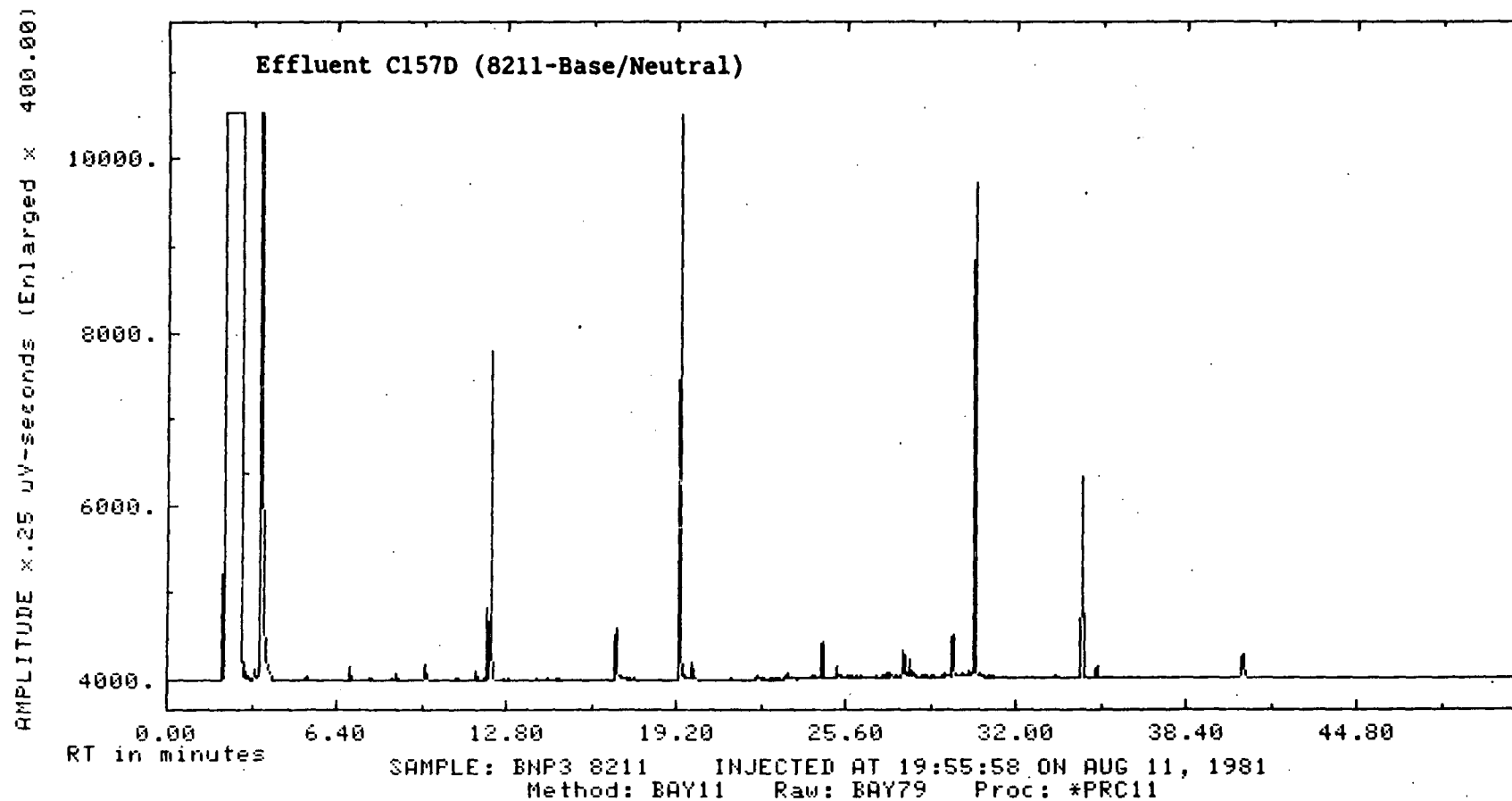


Figure F-14. FID/GC chromatogram of relative retention indices for components in the extractable organics base/neutral fraction from effluent C157D.

TABLE F-15. RELATIVE RETENTION INDICES FOR COMPONENTS
IN THE EXTRACTABLE ORGANICS ACID FRACTION
FROM EFFLUENT C161D, FID/GC

PROCESSED FILE: IUCK Effluent C161D (8239-Acid)
RAW FILE: BAY50

SAMPLE NAME: ANP3 8239

RELATIVE RETENTION VALUES

OUTPUT FILE: OPF2

PEAK#	AREA	TIME	INDEX
1	8556.5	2.08574	***
2	6.15164E+07	2.18542	***
3	1425.87	2.85118	***
4	1474.5	2.99181	***
5	6869.76	3.47118	***
6	109222.	3.53029	***
7	1183.25	4.19792	***
8	1848.25	7.63932	***
9	1744.03	8.01597	***
10	6236.25	8.30292	***
11	5269.33	8.9912	***
12	1967.48	9.18229	***
13	1529.7	9.21667	***
14	1074.25	9.68056	***
15	26456.2	10.9312	***
16	14455.9	11.4825	***
17	1734.69	12.2521	***
18	3523.45	12.9091	***
19	33368.5	13.1894	***
20	1869.11	13.4252	***
21	1489.5	13.5442	***
22	1829.87	14.0937	***
23	1905.87	14.7854	***
24	7520.08	15.4552	***
25	30146.8	15.6885	***
26	1907.66	15.7122	***
27	15724.4	15.7679	***
28	5726.62	16.5058	***
29	34538.7	17.1596	***
30	2248.06	17.3688	***
31	6568.5	17.8968	***
32	6035.61	18.6254	***
33	12252.3	19.1652	***

TABLE F-15 (continued)

34	1426.33	19.3779	***
35	1378	20.887	122.024
36	2823.11	21.7651	135.39
37	1038.2	22.2174	142.273
38	25602.3	22.4135	145.259
39	1237.56	23.1601	156.622
40	1516.66	23.3323	159.243
41	1274	23.8259	166.756
42	1297.56	24.1472	171.647
43	1666	24.7247	180.436
44	1433.8	25.051	185.404
45	18405.5	25.3555	190.038
46	1041.89	26.0792	201.524
47	2652.3	26.1964	204.105
48	2705.66	26.3206	206.841
49	2228.83	26.6983	215.161
50	2102.17	26.8236	217.921
51	1913.81	27.4875	232.544
52	8165.97	27.8281	240.046
53	46515.1	28.1336	246.775
54	1669.94	28.5573	256.108
55	1718.12	29.3208	272.926
56	1582.19	29.6391	279.935
57	34803.8	30.3652	295.929
58	14370.5	30.4085	296.883
59	27195.3	30.6299	301.973
60	1478.87	31.4443	322.081
61	1630.63	32.6306	351.372
62	7343.96	32.7282	353.783
63	113803.	32.9855	360.136
64	2361.84	33.5537	374.165
65	1404.31	33.6875	377.469
66	2870.25	40.0323	489.494
67	1412	40.4365	496.153

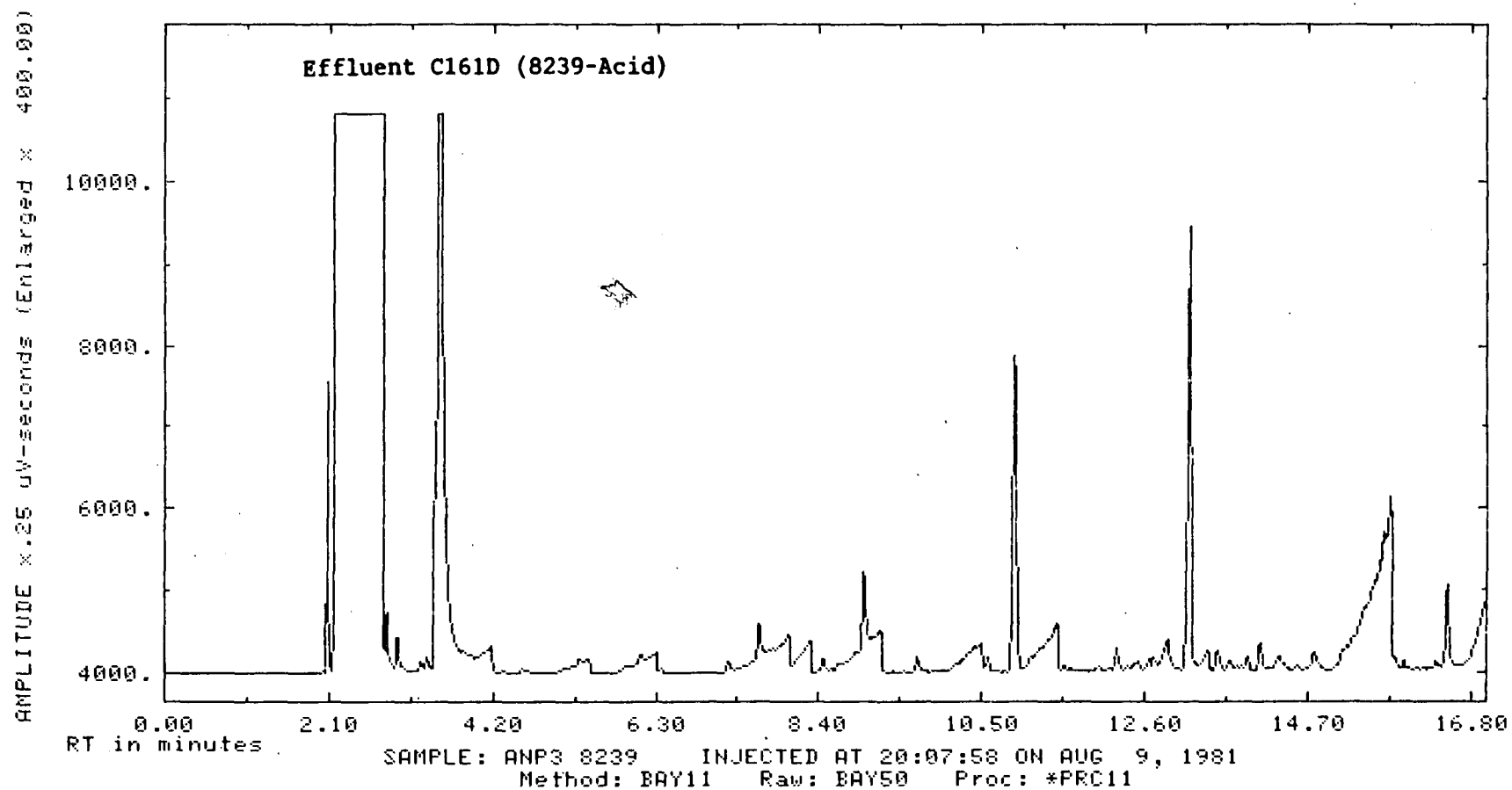


Figure F-15. FID/GC chromatogram of relative retention indices for components in the extractable organics acid fraction from effluent C161D.

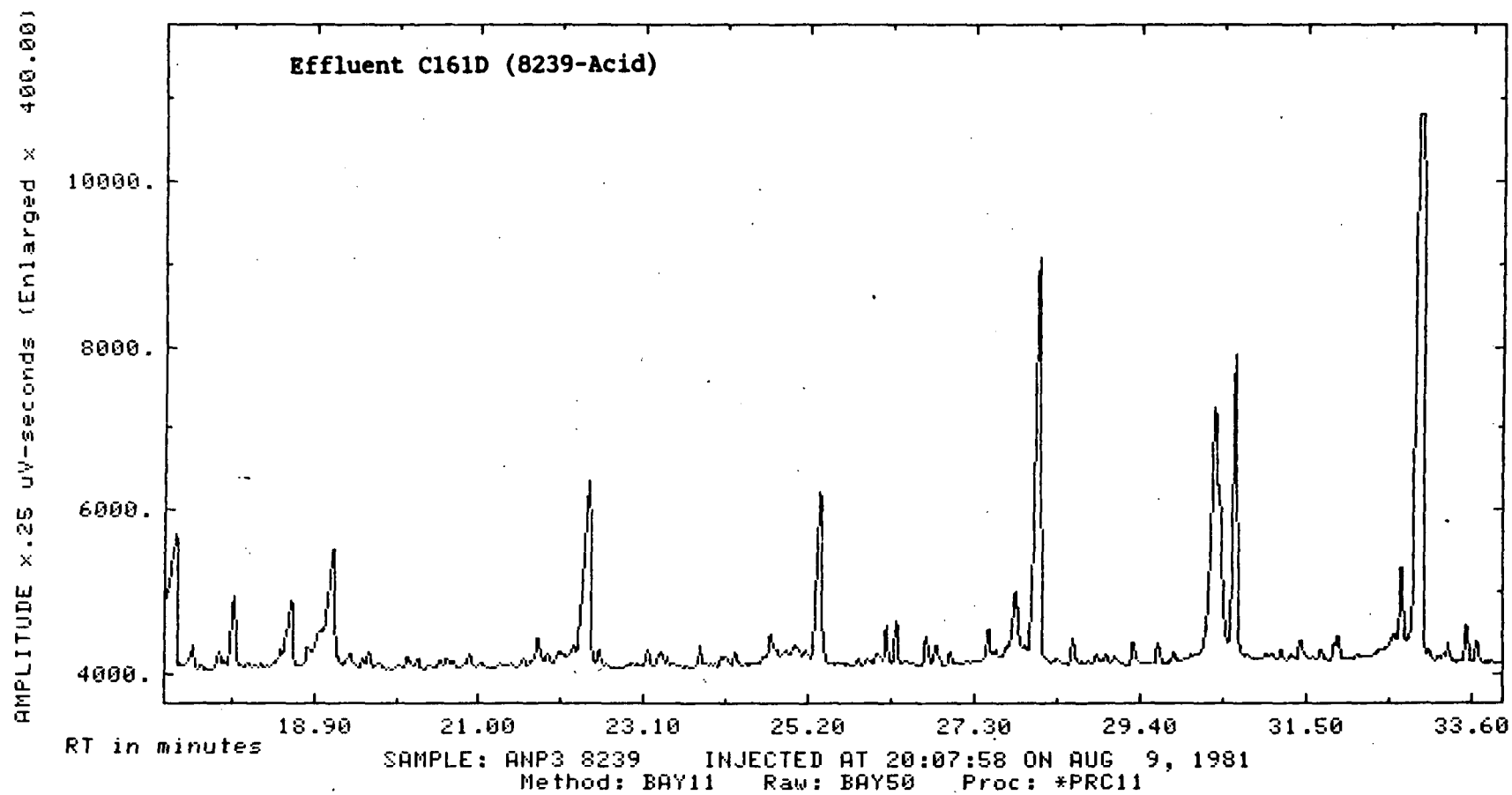


Figure F-15 (continued)

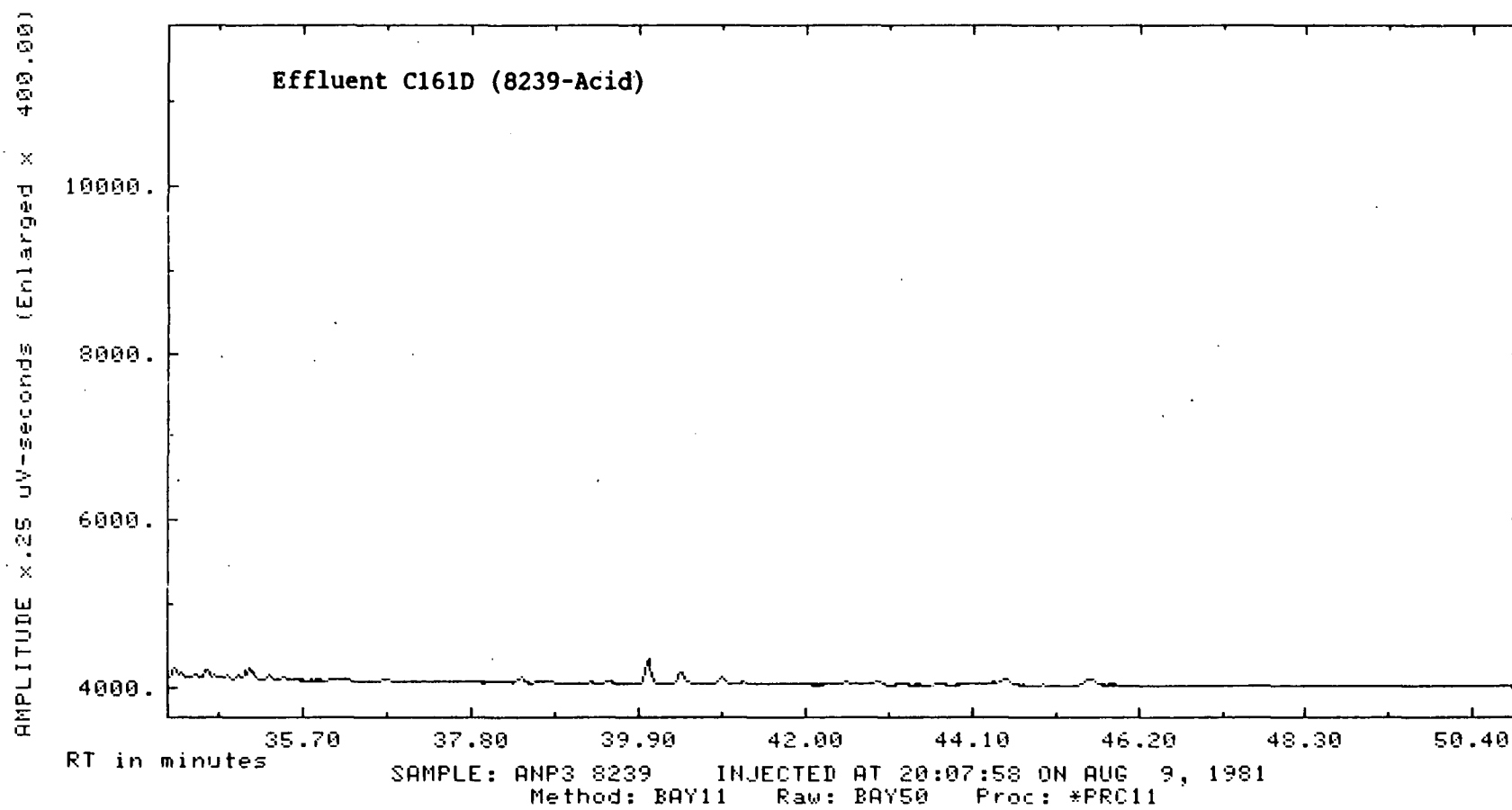


Figure F-15 (continued)

TABLE F-16. RELATIVE RETENTION INDICES FOR COMPONENTS
IN THE EXTRACTABLE ORGANICS BASE/NEUTRAL
FRACTION FROM EFFLUENT C161D, FID/GC

PROCESSED FILE: *PRC11 Effluent C161D (8239-Base/Neutral)
RAW FILE: BAY102

SAMPLE NAME: BNP3 8239

RELATIVE RETENTION VALUES

OUTPUT FILE: OPF1

PEAK#	AREA	TIME	INDEX
1	80077.5	2.17288	***
2	6.16668E+07	2.275	***
3	1078.12	2.97765	***
4	1253.5	3.13255	***
5	4249.52	3.47125	***
6	223854.	3.70033	***
7	4442.87	5.47778	***
8	7327.2	8.06699	***
9	12122.9	8.25602	***
10	2202.89	8.88385	***
11	1181.11	9.04931	***
12	6209.25	9.2525	***
13	1283.75	9.96458	***
14	2730.37	10.9387	***
15	1962.75	11.2049	***
16	4123.27	11.5454	***
17	6170.73	11.6635	***
18	4051.25	12.0056	***
19	2045.62	12.0857	***
20	4531.57	12.2579	***
21	2341.32	12.3205	***
22	4218.06	12.4116	***
23	42525.9	12.5356	***
24	4265.03	12.9802	***
25	2571.76	13.0438	***
26	1812.12	13.1153	***
27	2665.62	13.1944	***
28	2075.75	13.3437	***
29	1415.25	13.4842	***
30	1959.6	13.7517	***
31	1262.04	13.8589	***
32	8649.5	14.0059	***
33	10957.5	14.411	***

TABLE F-16 (continued)

34	2638.7	14.5458	***
35	3977.22	14.8528	***
36	12027.	15.078	***
37	3556.95	15.1452	***
38	2963.78	15.2194	***
39	1139.64	15.299	***
40	2963	15.3944	***
41	2820.62	15.5063	***
42	7006.41	15.582	***
43	3907.91	15.6884	***
44	2400.75	15.8033	***
45	5231.59	15.9714	***
46	44611.	16.0926	***
47	1753.58	16.2203	***
48	1344.37	16.4141	***
49	1058.69	17.3899	***
50	2261.19	17.5625	***
51	4277.55	18.0771	***
52	1985.53	18.1824	***
53	4819	18.3297	***
54	1301.42	19.1542	***
55	1190.08	19.2382	***
56	1252.06	19.4857	***
57	48544.	19.6975	***
58	5510.52	19.8925	101.853
59	1187.35	19.9595	102.867
60	1794.23	20.824	115.945
61	1571.75	20.9658	118.09
62	13731	21.1983	121.608
63	4421.87	21.5967	127.635
64	1827.42	21.6867	128.997
65	2611.69	22.1171	135.508
66	1093.8	22.2052	136.841
67	2864.28	22.6174	143.078
68	8631.81	22.8584	146.723
69	2835.7	23.2083	152.017
70	4103.98	23.3019	153.432
71	1746.2	23.4767	156.077
72	1485.69	24.3469	169.242
73	7798	24.4267	170.449
74	2500.11	24.7313	175.057
75	3414.8	24.828	176.521
76	1175.02	25.0563	179.974

TABLE F-16 (continued)

77	1398.14	25.1119	180.815
78	8550.05	25.6532	189.004
79	1825.16	25.9233	193.091
80	1923.12	26.1821	197.007
81	2102.3	26.5288	203.262
82	1263.05	26.655	206.031
83	1552.52	27.0358	214.382
84	1037.12	27.1716	217.36
85	10772.9	27.3445	221.152
86	2929.41	27.4394	223.233
87	2140.25	27.6903	228.734
88	3329.34	27.8647	232.56
89	1256.88	27.935	234.101
90	2248.22	28.1848	239.579
91	65560.8	28.519	246.908
92	1228.65	28.5816	248.281
93	1146	28.9167	255.629
94	2132.12	29.2304	262.509
95	7512.37	30	279.386
96	1517.95	30.1507	282.691
97	5274.5	30.2637	285.17
98	20279.5	30.7033	294.81
99	9029.27	30.7473	295.773
100	23787.2	30.8814	298.715
101	23770.1	30.9676	300.672
102	1019.69	33.6191	365.185
103	2120.47	33.8574	370.984
104	2607.25	34.2184	379.766
105	14007.9	34.9473	397.501
106	2864	35.4715	406.586
107	7338.87	41.2743	497.255
108	20918.3	45.5383	543.171
109	20406.4	46.6937	555.372

F-61

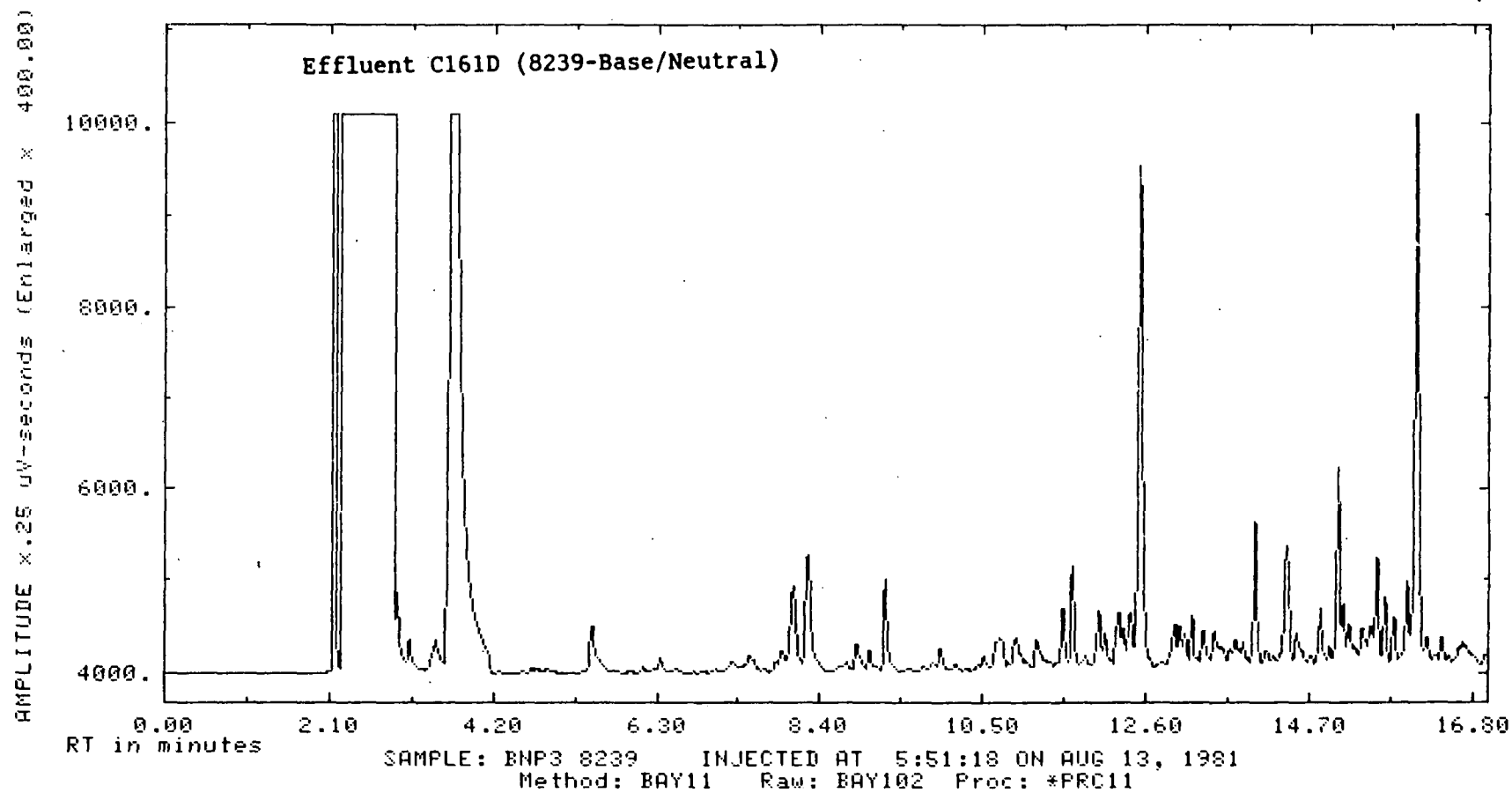


Figure F-16. FID/GC chromatogram of relative retention indices for components in the extractable organics base/neutral fraction from effluent C161D.

F-62

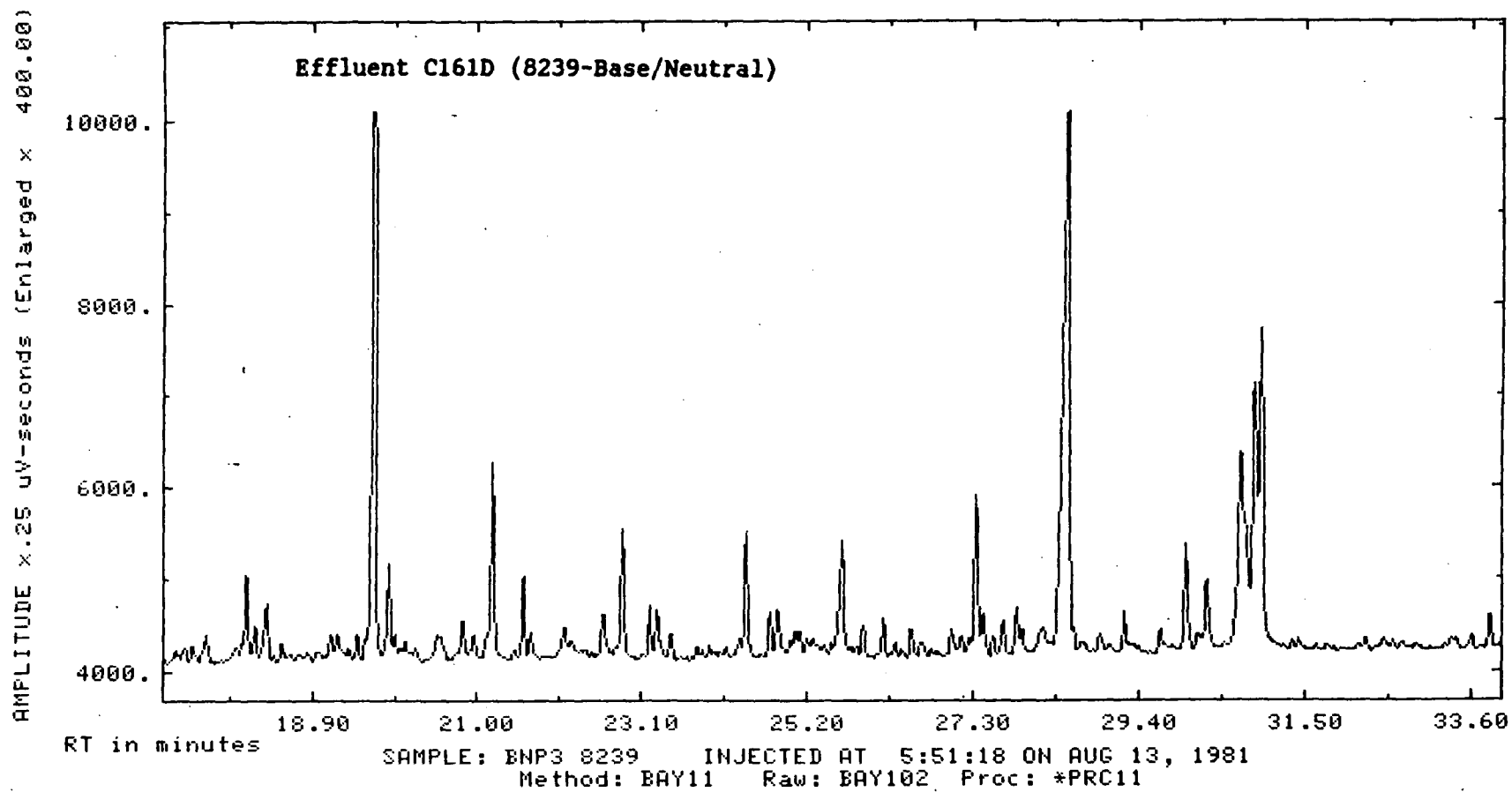


Figure F-16 (continued)

F-63

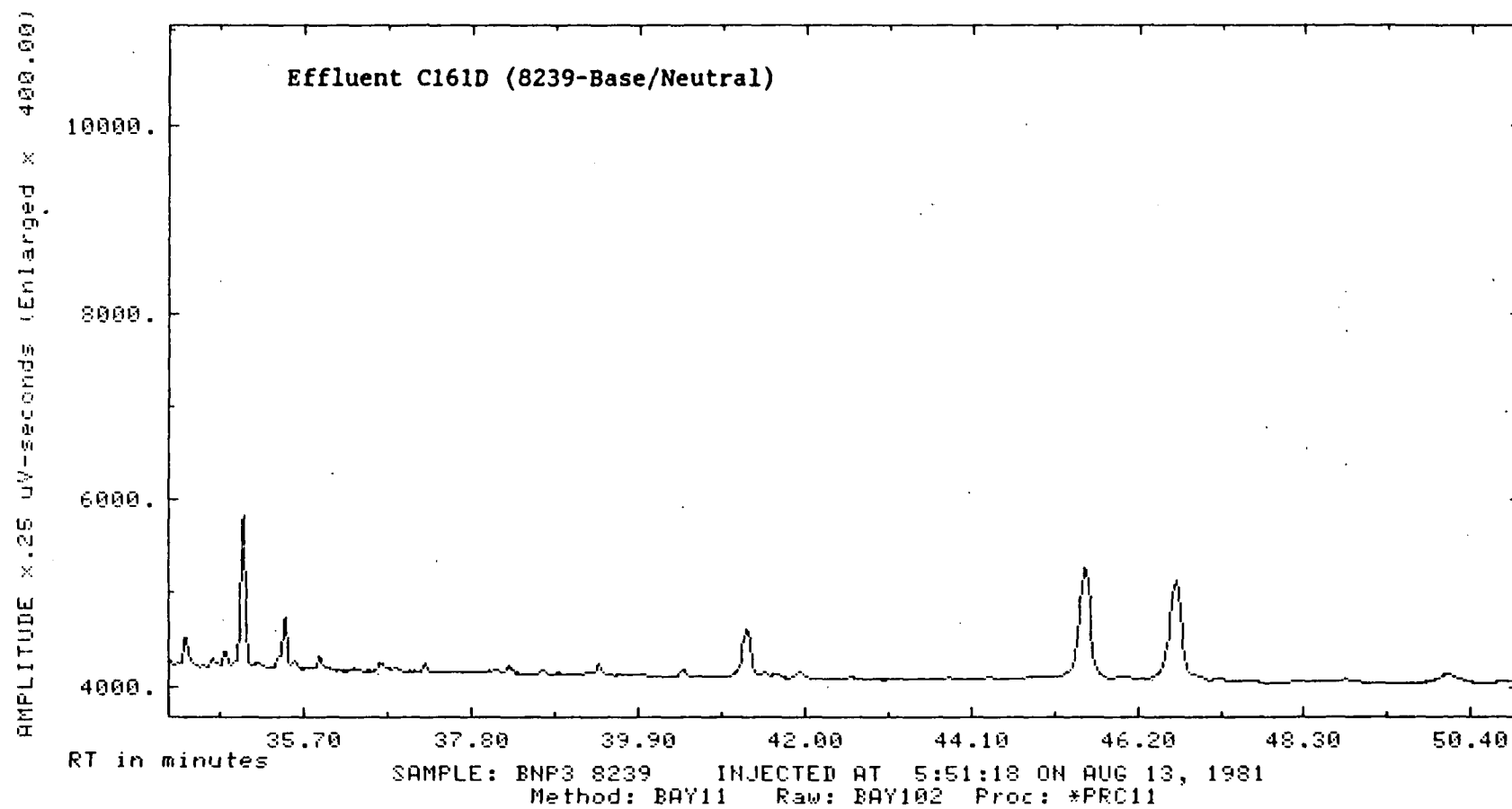


Figure F-16 (continued)

TABLE F-17. RELATIVE RETENTION INDICES FOR COMPONENTS
IN THE EXTRACTABLE ORGANICS ACID FRACTION
FROM EFFLUENT C164D, FID/GC

RAW FILE BAY37-SM

Effluent C164D (8212-Acid)

ANP 3 8212

SORRY, PRINTER BUSY OR DOWN

RELATIVE RETENTION VALUES

OUTPUT FILE: OPF2

PEAK#	AREA	TIME	INDEX
1	13528.2	2.08995	***
2	6.10730E+07	2.18958	***
3	10620.2	3.47976	***
4	127099.	3.53893	***
5	8855.5	7.63493	***
6	3605	8.44948	***
7	1263.25	8.97639	***
8	1995.5	9.66204	***
9	1128.19	10.2245	***
10	21614.4	10.9124	***
11	7655.41	12.0053	***
12	3000	12.8494	***
13	5370.87	13.0045	***
14	2107.5	13.1437	***
15	3873.5	13.8693	***
16	1311.19	16.8229	***
17	1076.37	18.4568	***
18	23338.2	22.9656	153.663
19	3351.19	27.7807	239.001
20	1073.31	27.9993	243.817
21	1358.5	34.4469	396.219
22	1260	35.0035	406.647

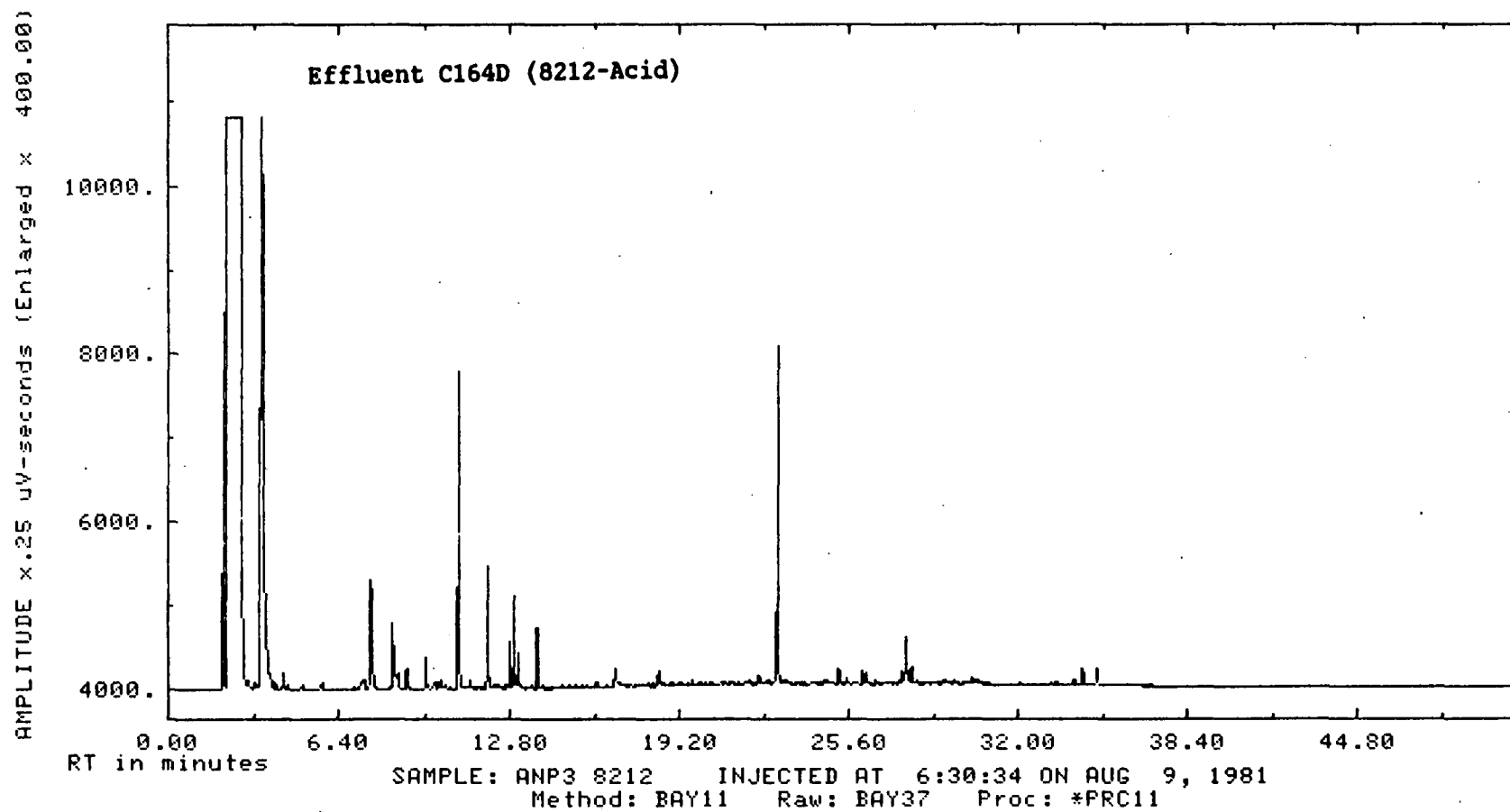


Figure F-17. FID/GC chromatogram of relative retention indices for components in the extractable organics acid fraction from effluent C164D.

TABLE F-18. RELATIVE RETENTION INDICES FOR COMPONENTS
IN THE EXTRACTABLE ORGANICS BASE/NEUTRAL
FRACTION FROM EFFLUENT C164D, FID/GC

PROCESSED FILE: *PRC32 Effluent C164D (8212-Base/Neutral)
RAW FILE: CBS04

SAMPLE NAME: BNP3 8212

RELATIVE RETENTION VALUES

OUTPUT FILE: OPF3

PEAK#	AREA	TIME	INDEX
1	3470.25	2.0739	***
2	5.84154E+07	2.16042	***
3	1140.87	3.31563	***
4	21754.6	3.4791	***
5	83792.9	3.53517	***
6	20428.3	12.2582	***
7	35195.7	19.403	***
8	1282.56	19.9354	107.236
9	3456.69	27.8437	239.95
10	1456.49	28.0609	244.734
11	4247.66	30.3867	295.963
12	26269.8	30.5238	298.983
13	18795.1	34.5604	398.286
14	16288.7	40.6458	497.978

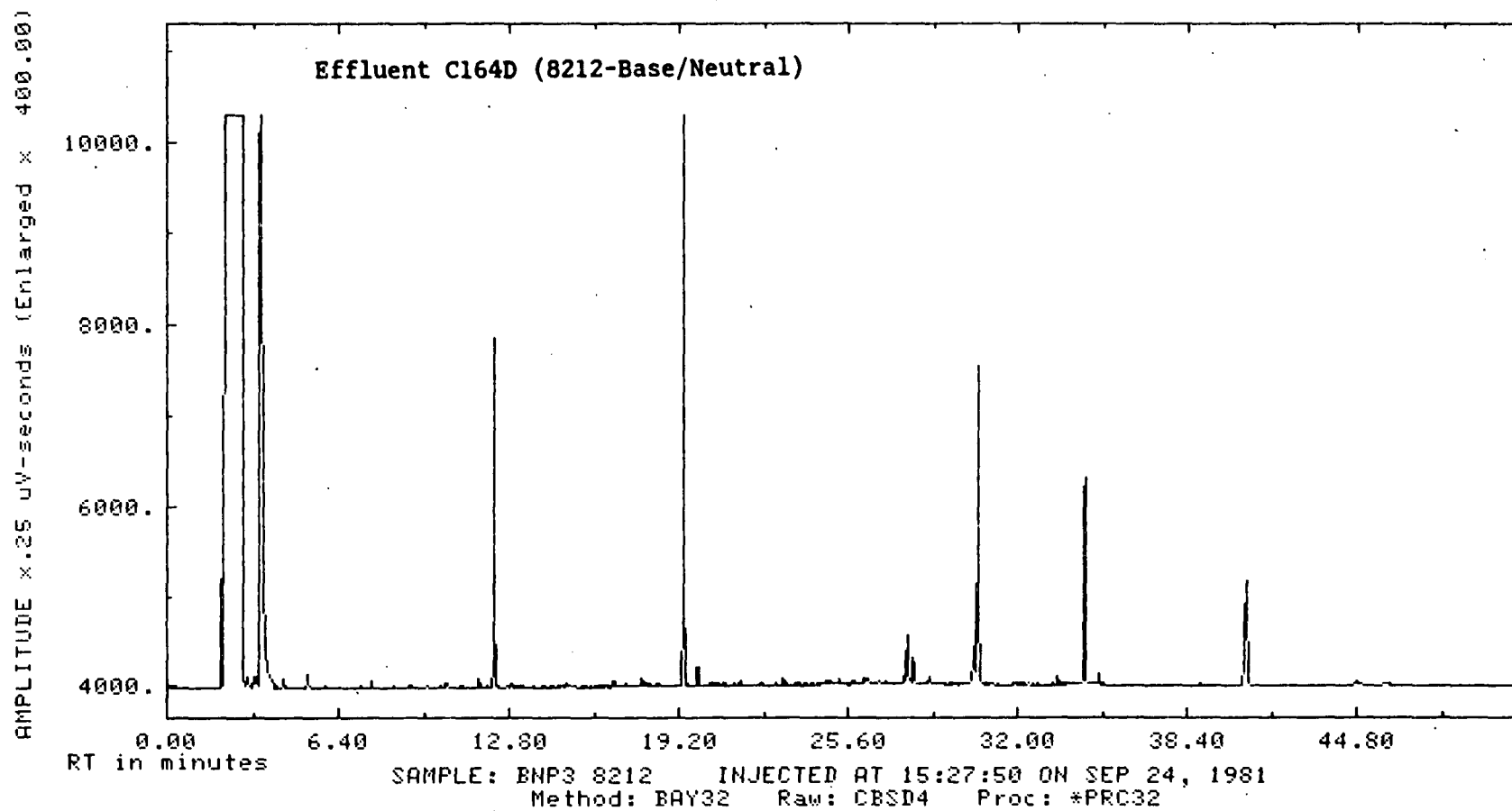


Figure F-18. FID/GC chromatogram of relative retention indices for components in the extractable organics base/neutral fraction from effluent C164D.

TABLE F-19. RELATIVE RETENTION INDICES FOR COMPONENTS
IN THE EXTRACTABLE ORGANICS ACID FRACTION
FROM EFFLUENT C169D, FID/GC

PROCESSED FILE: DUCK Effluent C169D (8208 Acid)
RAW FILE: BAY32

SAMPLE NAME: ANP3 8208

RELATIVE RETENTION VALUES

OUTPUT FILE: OPF2

PEAK#	AREA	TIME	INDEX
1	12241.6	2.0957	***
2	5.95355E+07	2.19583	***
3	1435.3	2.86181	***
4	1984.37	3.20882	***
5	16585.	3.48482	***
6	220305.	3.54747	***
7	1089.23	4.04375	***
8	1507.25	7.46597	***
9	3583	10.6531	***
10	18332.1	10.9098	***
11	13521.1	12.1615	***
12	1314	13.2422	***
13	3300.25	15.7764	***
14	1624.37	16.2326	***
15	1204.87	17.0175	***
16	2590.62	17.9558	***
17	1109	19.3167	***
18	2724.5	19.7015	103.98
19	1524.56	21.6889	134.23
20	6777.5	23.3461	159.453
21	1574.5	24.3049	174.047
22	6445.34	24.8747	182.72
23	4748.81	25.0832	185.894
24	1323.56	27.2141	226.521
25	1639.42	27.6474	236.066
26	1564.62	27.9932	243.682
27	1672.55	28.3797	252.196
28	1112.27	30.4142	297.008
29	1901.75	32.95	359.259
30	2519.69	33.6435	376.383
31	11841.2	34.0765	387.075
32	1552.06	34.449	396.271
33	2883.05	34.5701	399.263
34	2099.75	35.0071	406.706

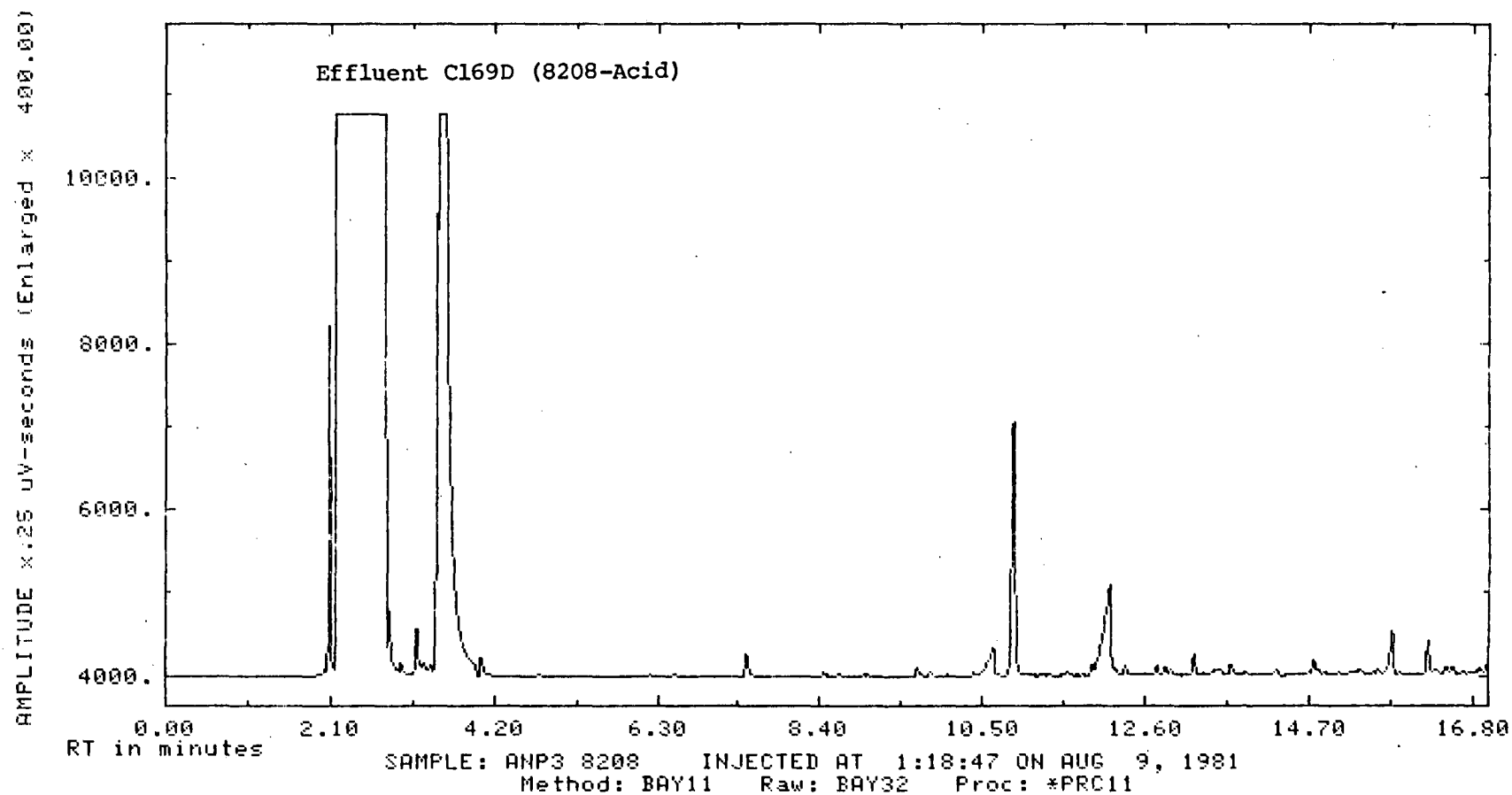


Figure F-19. FID/GC chromatogram of relative retention indices for components in the extractable organics acid fraction from effluent C169D.

F-70

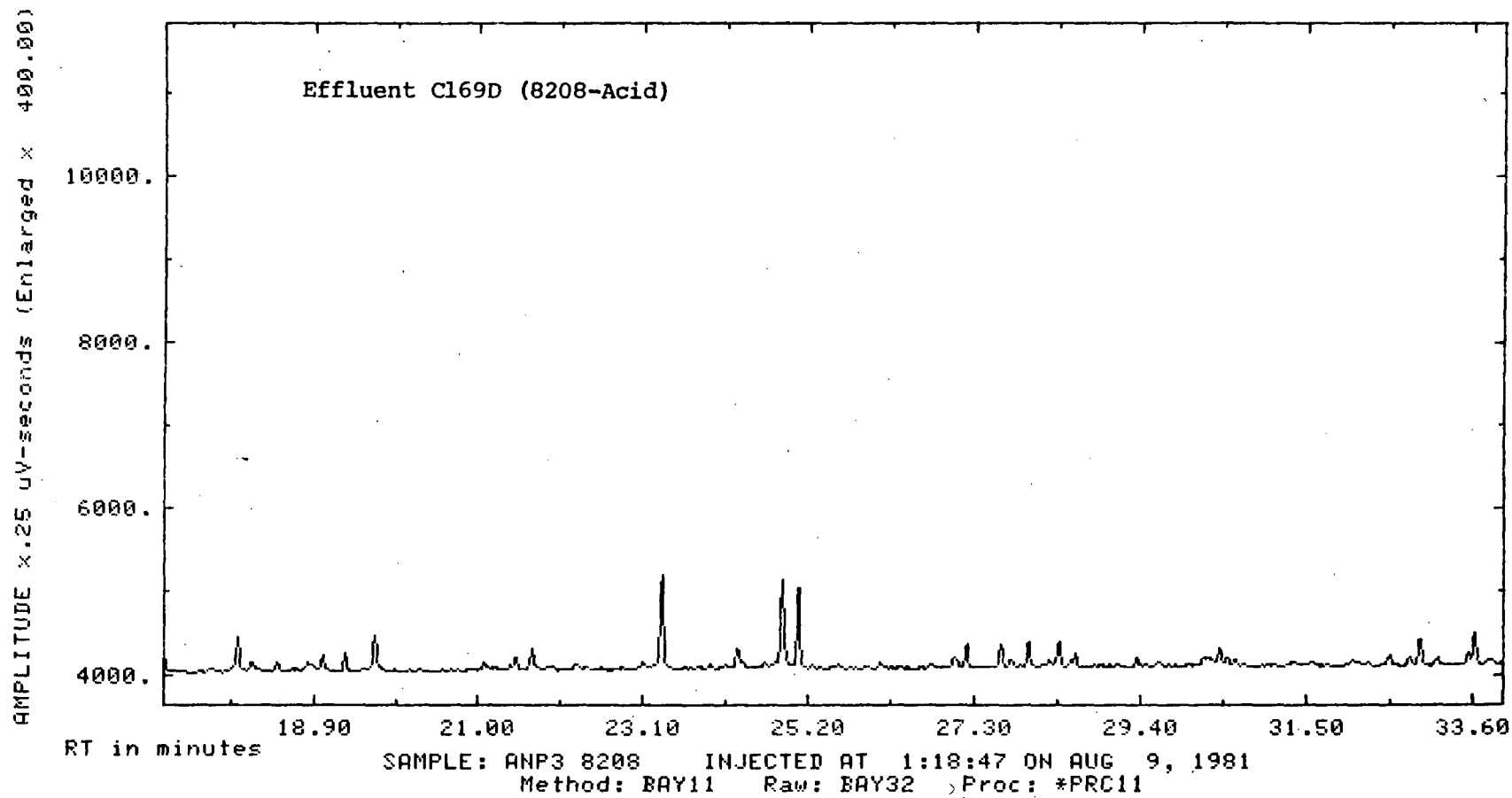


Figure F-19 (continued)

F-71

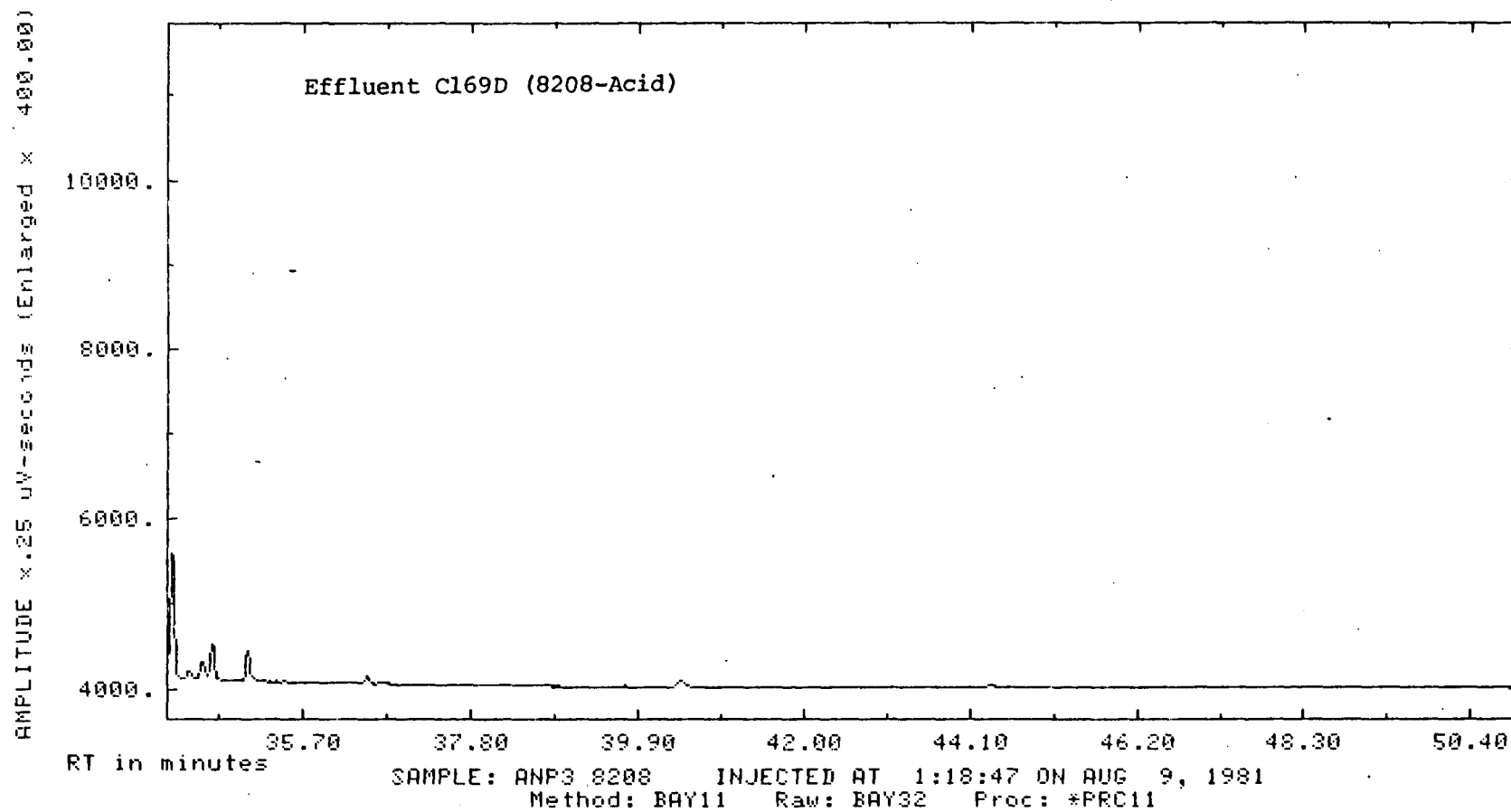


Figure F-19 (continued)

TABLE F-20. RELATIVE RETENTION INDICES FOR COMPONENTS
IN THE EXTRACTABLE ORGANICS BASE/NEUTRAL
FRACTION FROM EFFLUENT C169D, FID/GC

PROCESSED FILE: *PRC11 Effluent C169D (8208 Base/Neutral)
RAW FILE: BAY76

SAMPLE NAME: BNF3 8208

RELATIVE RETENTION VALUES

OUTPUT FILE: OPF1

PEAK#	AREA	TIME	INDEX
1	3899.16	2.10408	***
2	59784.2	2.15297	***
3	5.75354E+07	2.20833	***
4	1023.34	2.86505	***
5	5639.84	3.21163	***
6	140028.	3.55104	***
7	1348.75	6.53819	***
8	1258.12	9.68167	***
9	4731.56	9.84732	***
10	1086.61	11.2424	***
11	20435.6	12.2306	***
12	4751.19	13.202	***
13	2240.37	13.9462	***
14	8092	14.3112	***
15	2177.37	17.5777	***
16	1455.87	18.7802	***
17	7790.87	18.8654	***
18	41622.7	19.3602	***
19	1528.25	19.5812	101.846
20	4434.55	21.9178	137.41

TABLE F-20 (continued)

21	105908.	23.4412	160.596
22	2345.48	25.4208	190.728
23	2160	25.5517	192.721
24	56073.2	27.2902	227.757
25	2662.62	27.6598	235.899
26	2712.97	27.801	239.01
27	1832.09	27.9232	241.701
28	4685.66	28.0264	243.973
29	3579.02	30.3177	294.443
30	4448.71	30.3527	295.213
31	33424.8	30.4721	297.843
32	1490.32	30.5586	299.75
33	14512.7	30.6589	302.195
34	2419.75	33.6831	376.867
35	15748.7	34.4917	396.831
36	18156.4	35.0455	406.975
37	2700.75	40.5031	496.445

F-74

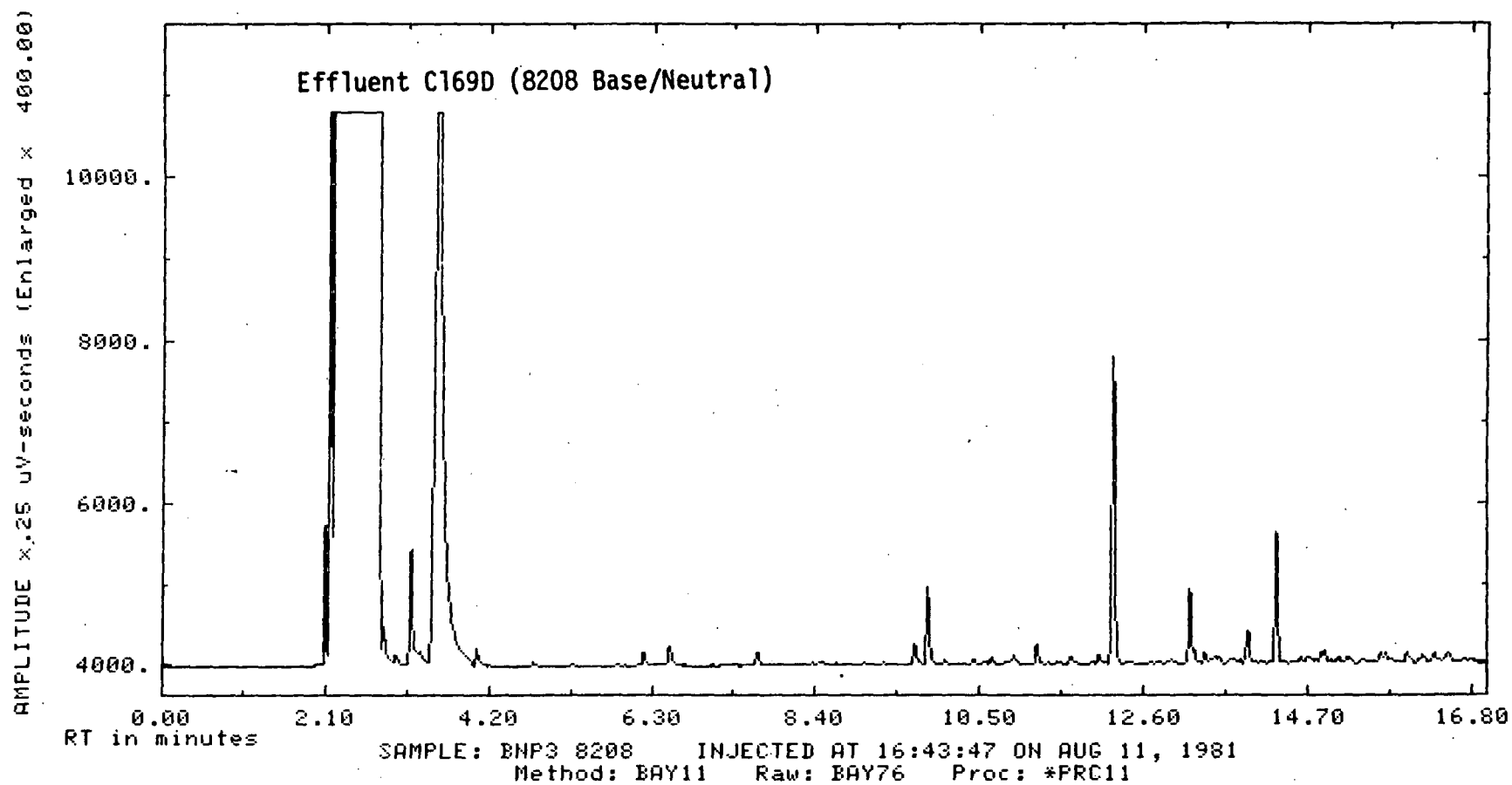


Figure F-20. FID/GC chromatogram of relative retention indices for components in the extractable organics base/neutral fraction from effluent C169D.

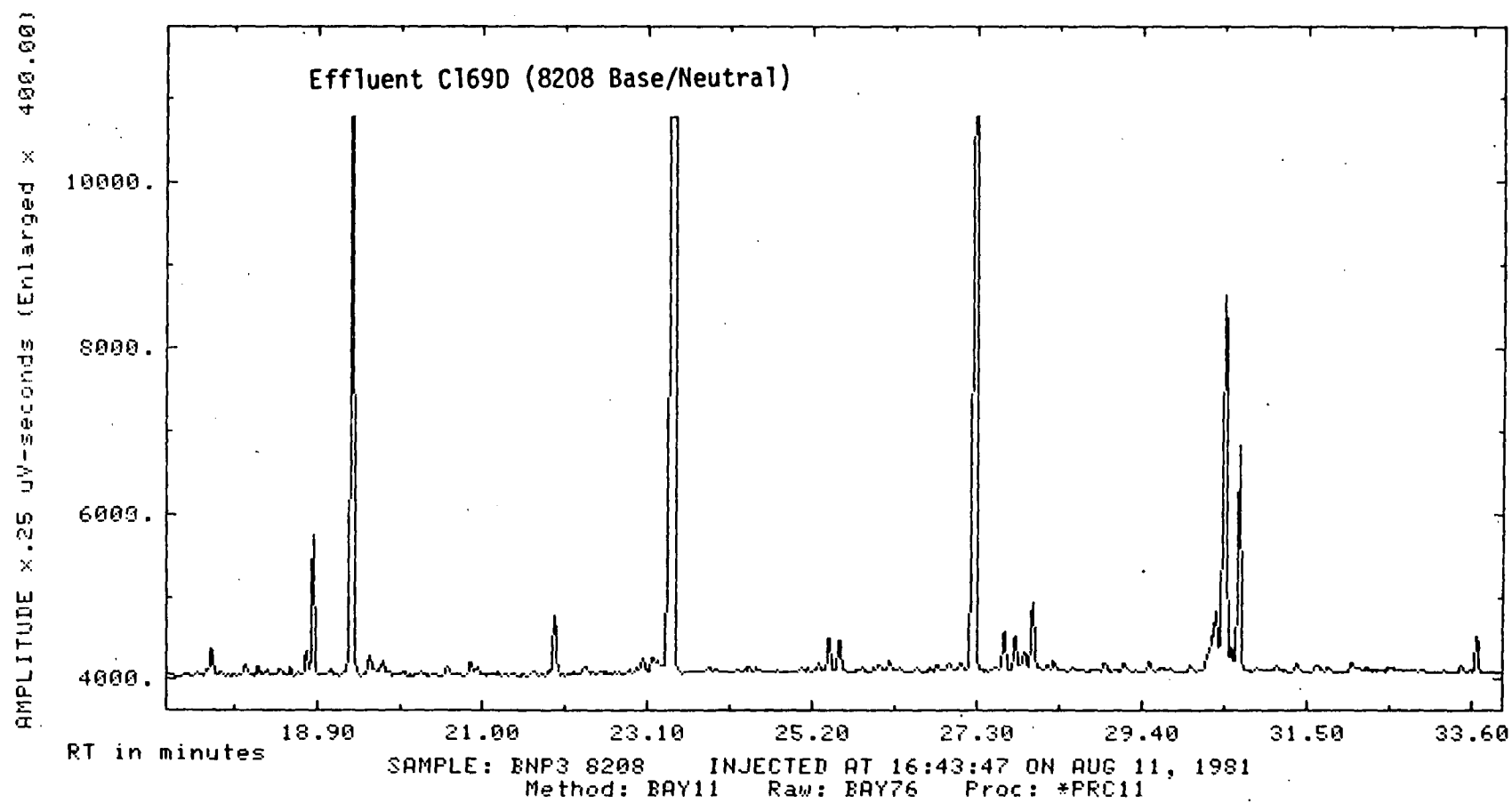


Figure F-20 (continued)

F-76

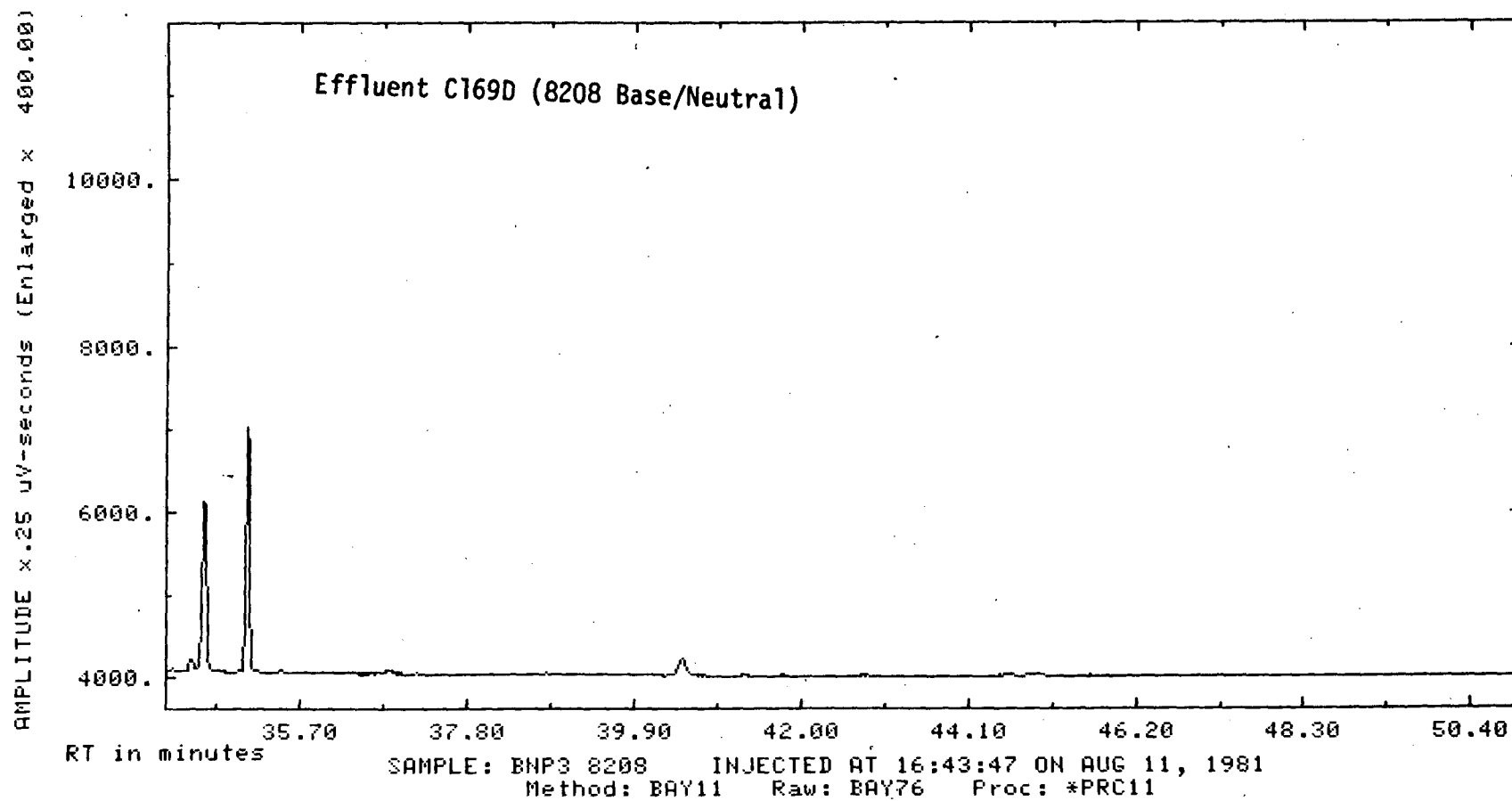


Figure F-20 (continued)

TABLE F-21. RELATIVE RETENTION INDICES FOR COMPONENTS
IN THE EXTRACTABLE ORGANICS ACID FRACTION
FROM EFFLUENT B133S, FID/GC

PROCESSED FILE: *PRC11 Effluent B133S (8183-Acid)
RAW FILE: BAY8

SAMPLE NAME: ANF3 8183

RELATIVE RETENTION VALUES

OUTPUT FILE: OPF1

PEAK#	AREA	TIME	INDEX
1	18792.8	2.14595	***
2	5.34888E+07	2.23125	***
3	62425.8	3.56967	***
4	51546.7	4.07079	***
5	2433	10.46	***
6	15722.5	10.9474	***
7	22409.9	11.565	***
8	3342.12	11.7622	***
9	11996.7	12.1389	***
10	1945.42	12.7399	***
11	5649.37	12.9039	***
12	3034.33	13.7111	***
13	2363.93	13.7512	***
14	1169.06	14.0596	***
15	3814.62	14.5292	***
16	1931.19	15.35	***
17	1612.06	15.5167	***
18	2013.49	16.8197	***
19	2016.24	16.9271	***
20	3084.09	16.9949	***
21	1411.98	17.0745	***
22	4692.28	17.4428	***
23	1420.41	17.9177	***
24	1066.95	18.0385	***
25	1557.12	18.2091	***
26	4768.27	18.2582	***
27	1349.28	18.4117	***
28	1408.37	18.538	***
29	1132.64	19.3354	***
30	2044.42	19.5932	102.179

TABLE F-21 (continued)

31	10501.8	19.8906	106.707
32	5973.81	20.7307	119.494
33	15177.5	20.9467	122.781
34	1467.11	21.0434	124.252
35	4514.5	21.3588	129.053
36	2624.67	21.6208	133.042
37	4902.16	21.7678	135.278
38	2714.34	21.8597	136.678
39	1285.1	22.4607	145.826
40	1209.2	22.5346	146.95
41	3986.83	22.6984	149.443
42	6878.52	22.8534	151.802
43	3192.81	22.9293	152.957
44	1192.03	23.0368	154.594
45	4788.72	23.1275	155.975
46	2557.34	23.2458	157.775
47	2387.66	24.005	169.33
48	1084.66	24.7771	181.082
49	2801.91	25.1109	186.163
50	2072.75	25.3523	189.838
51	2791.48	25.938	198.751
52	2834.55	26.2679	205.461
53	1851.48	26.3569	207.422
54	3579.16	26.7171	215.354
55	1512.5	27.1771	225.486
56	3015.47	27.4596	231.71
57	1596.14	27.8587	240.5
58	5485.56	27.9643	242.826
59	1889.04	28.0732	245.224
60	1335.55	30.7971	305.839
61	1078.12	32.0437	336.545

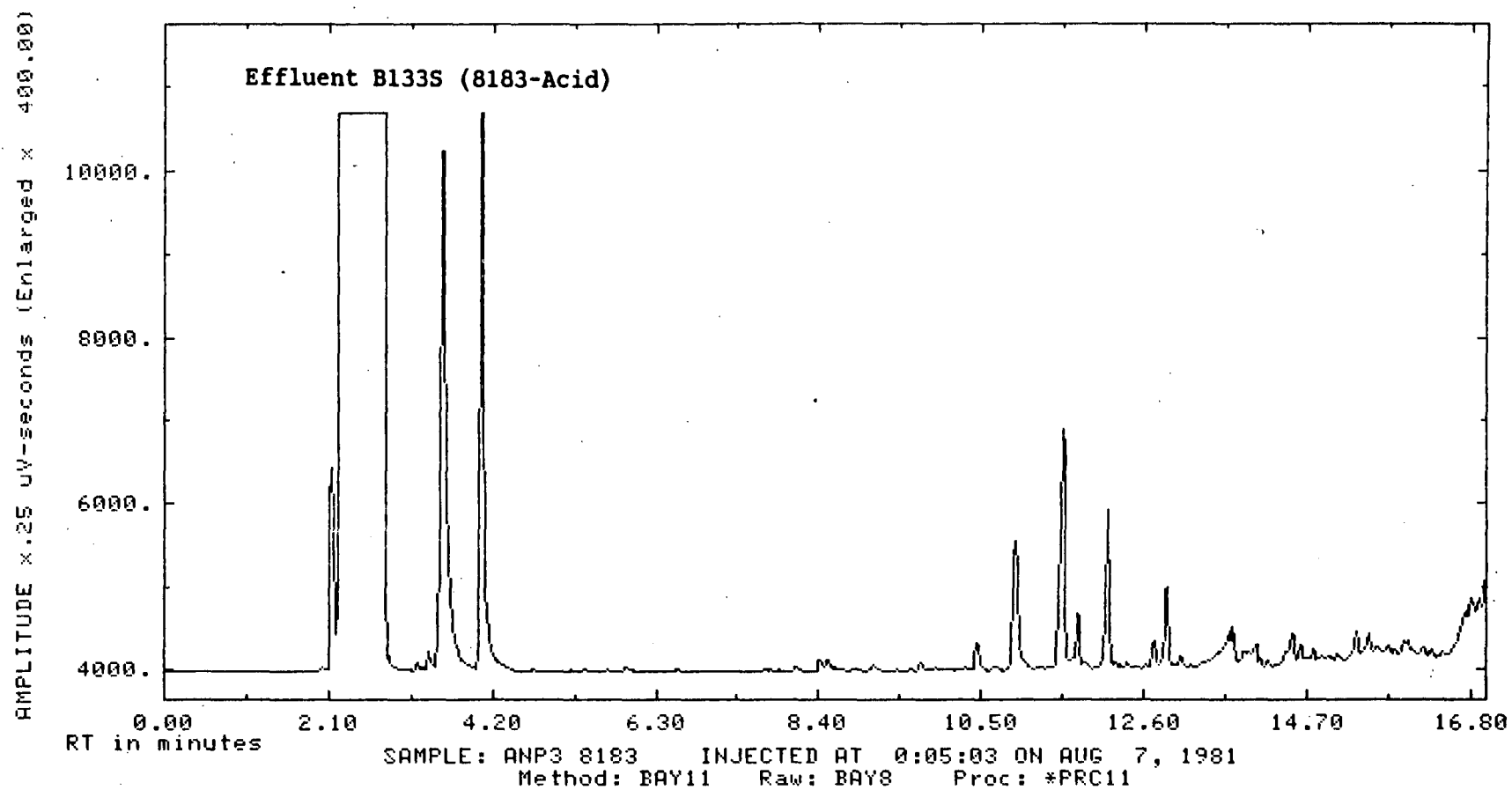


Figure F-21. FID/GC chromatogram of relative retention indices for components in the extractable organics acid fraction from effluent B133S.

TABLE F-22. RELATIVE RETENTION INDICES FOR COMPONENTS
IN THE EXTRACTABLE ORGANICS BASE/NEUTRAL
FRACTION FROM EFFLUENT B133S, FID/GC

PROCESSED FILE: DUCK Effluent B133S (8183-Base/Neutral)
RAW FILE: BAY56

SAMPLE NAME: BNP3 8183

RELATIVE RETENTION VALUES

OUTPUT FILE: OPF2

PEAK#	AREA	TIME	INDEX
1	5414	2.08538	***
2	6.03591E+07	2.18333	***
3	2305.98	3.19365	***
4	76651.2	3.52735	***
5	86440.6	4.03368	***
6	9436	5.33559	***
7	2116	5.85104	***
8	3493.81	7.84258	***
9	1632	8.125	***
10	3214.7	8.34427	***
11	52297.5	8.5069	***
12	56192.4	10.0584	***
13	4586.25	10.4281	***
14	4449.11	10.9414	***
15	30465.1	11.558	***
16	1931.3	11.7305	***
17	1798.41	11.838	***
18	2469.12	11.9974	***
19	26796.5	12.2417	***
20	13120.7	12.8974	***
21	3181.19	13.8351	***
22	15906.7	14.6374	***
23	1233.67	14.9635	***
24	3318.02	15.5116	***
25	2840	15.9829	***
26	1212.94	16.3071	***
27	3119.69	16.49	***
28	6456	16.9332	***
29	1283.97	17.4146	***

TABLE F-22 (continued)

30	1118.81	17.7799	***
31	2730.8	18.0484	***
32	1621.55	18.1156	***
33	1047	18.416	***
34	52025.	19.3916	***
35	1175	20.4493	115.362
36	1155.23	20.9281	122.65
37	6871.89	21.0189	124.032
38	8602.19	22.9082	152.789
39	4040.88	23.0995	155.7
40	1380.34	23.2187	157.515
41	1722.84	23.4062	160.369
42	2345.7	23.5554	162.639
43	1096.93	23.6472	164.037
44	1390.44	24.775	181.202
45	3412.55	25.2984	189.17
46	3311.5	26.2091	204.386
47	2077.72	27.5724	234.414
48	12639.6	27.8662	240.885
49	7481.11	27.95	242.731
50	11417.2	28.0942	245.906
51	3417.44	29.2161	270.618
52	8121	30.3868	296.406
53	49426.4	30.5174	299.283
54	1963.12	31.0531	312.423
55	3070.12	33.5809	374.837
56	3266.75	34.5073	397.711
57	4675.48	35.06	407.578
58	12788	40.5448	497.937

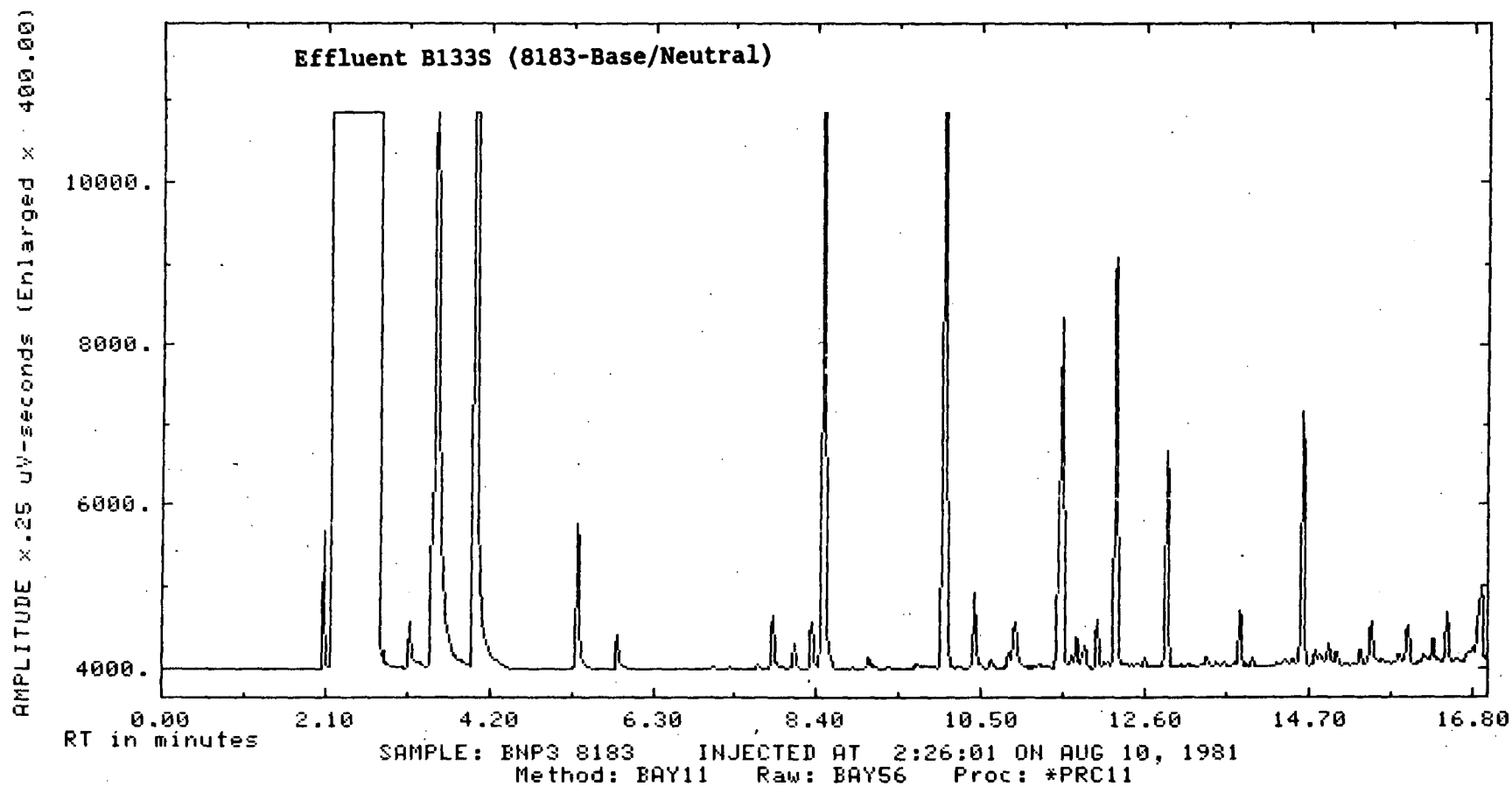


Figure F-22. FID/GC chromatogram of relative retention indices for components in the extractable organics base/neutral fraction from effluent B133S.

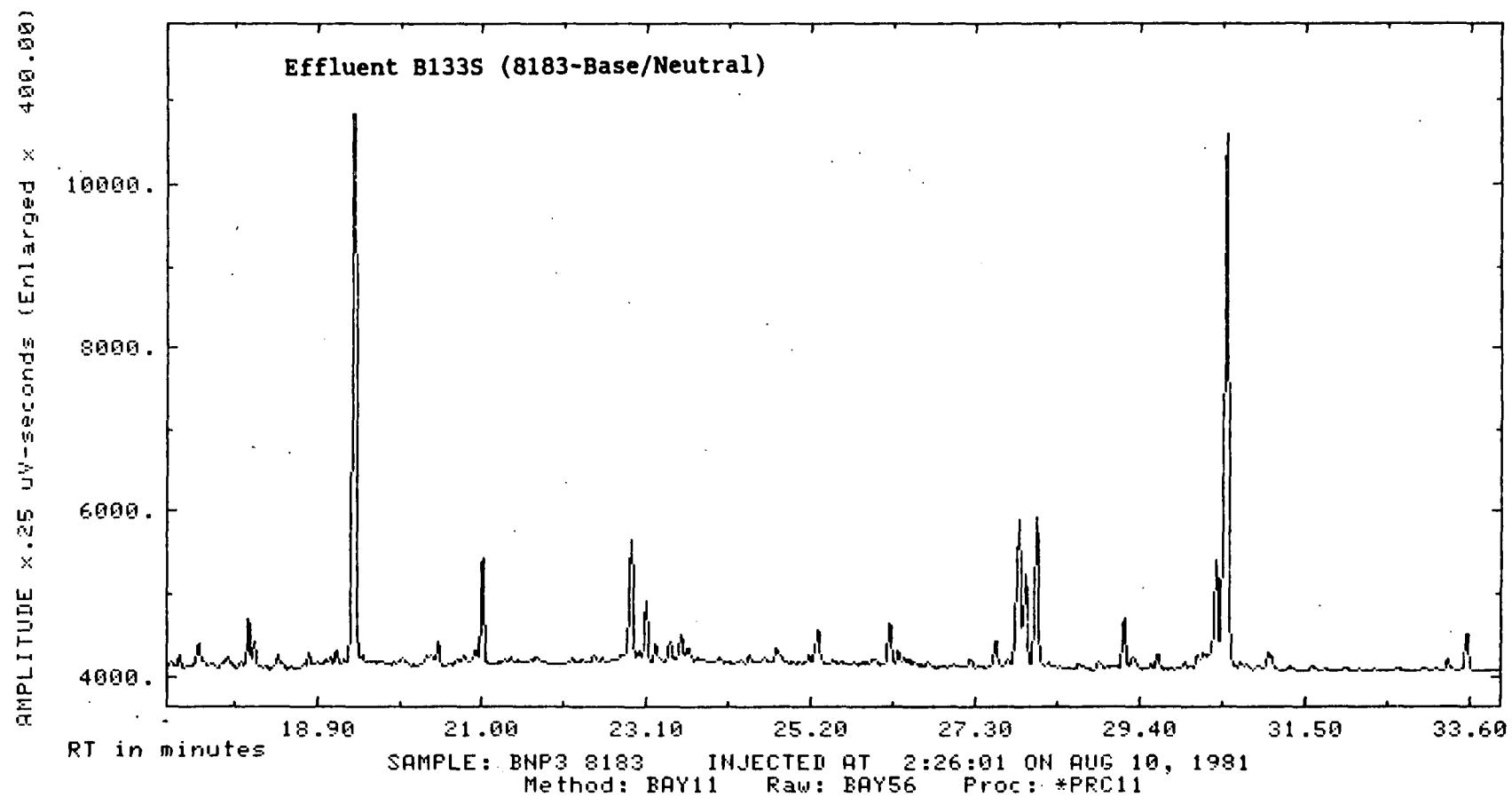


Figure F-22 (continued)

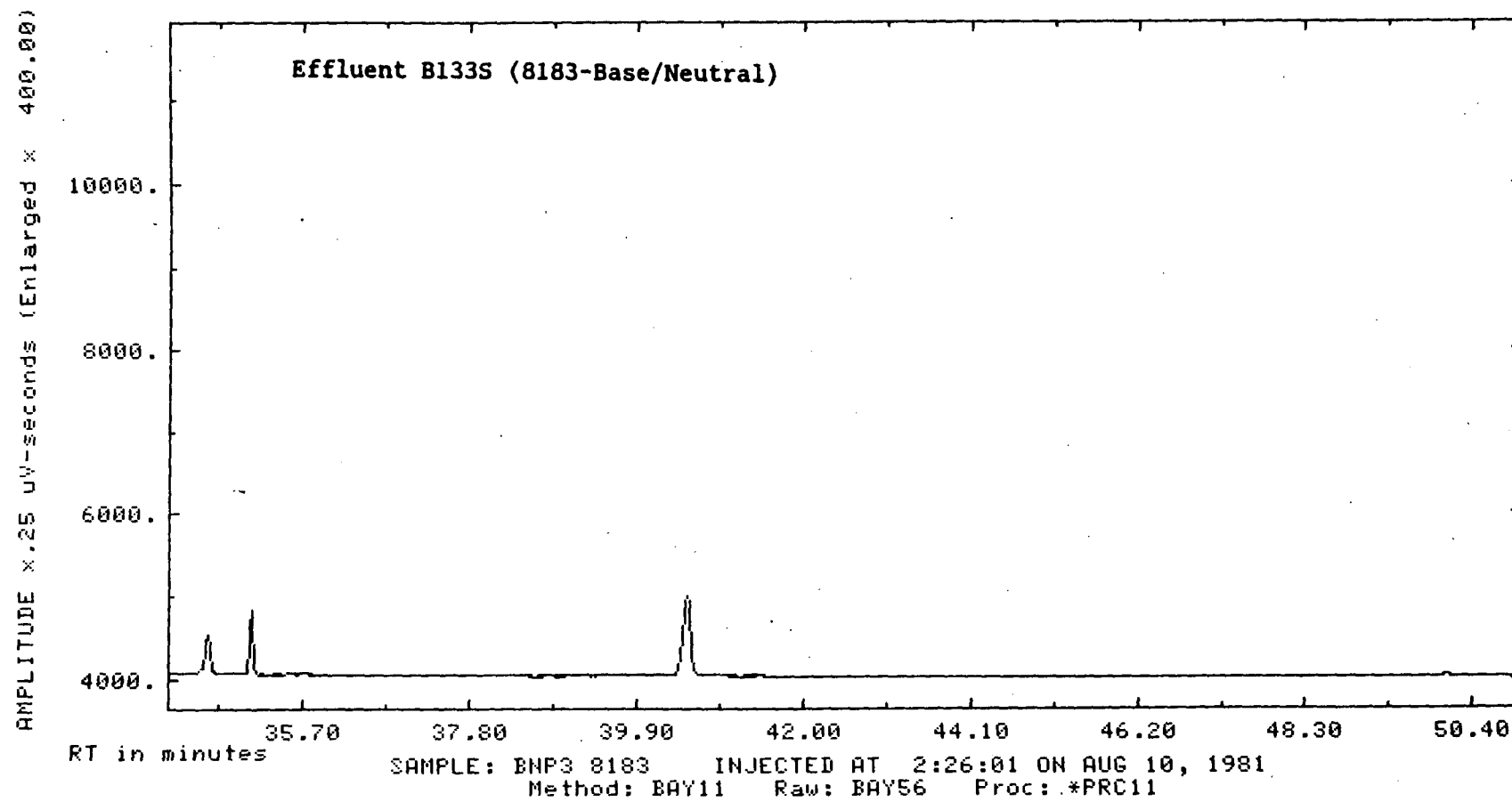


Figure F-22 (continued)

TABLE F-23. RELATIVE RETENTION INDICES FOR COMPONENTS
IN THE EXTRACTABLE ORGANICS ACID FRACTION
FROM EFFLUENT B141S, FID/GC

PROCESSED FILE: *PRC11 Effluent B141S (8185-Acid)
RAW FILE: BAY10

SAMPLE NAME: ANP3 8185

RELATIVE RETENTION VALUES

OUTPUT FILE: OPF1

PEAK#	AREA	TIME	INDEX
1	14653.5	2.0961	***
2	27214.3	2.13779	***
3	5.67861E+07	2.2125	***
4	1845.31	2.97895	***
5	81739.6	3.56563	***
6	1448.25	4.11042	***
7	33169.6	4.59325	***
8	17385.6	4.66118	***
9	1093.25	7.68264	***
10	5628.87	9.01814	***
11	1617.75	9.51667	***
12	2365.31	10.3297	***
13	1219.87	10.4446	***
14	14172.3	10.7406	***
15	15505.	10.9802	***
16	6117.34	11.3617	***
17	1055.87	12.2672	***
18	1888.23	12.8403	***
19	1289.51	12.9198	***
20	25554	13.1965	***
21	2538.87	13.425	***
22	3758.37	13.7235	***
23	18933	14.1175	***
24	1216.56	14.2924	***
25	3889.72	15.5933	***
26	1722.5	15.8379	***
27	20353.8	17.0739	***
28	1771.12	17.2977	***
29	1461.86	17.8583	***
30	3259.06	18.5792	***

TABLE F-23 (continued)

31	5922.84	18.9778	***
32	24503.8	19.19	***
33	11293.2	20.8924	121.955
34	1085.12	21.7745	135.38
35	5311.72	22.2264	142.259
36	38836.3	22.4702	145.969
37	14146.5	22.4917	146.298
38	1560.42	23.3385	159.186
39	5170.75	24.1039	170.835
40	1715.5	24.7347	180.437
41	1190.77	25.0698	185.537
42	2486.47	25.1802	187.218
43	21587.3	25.3772	190.217
44	2349.79	26.2055	204.086
45	2255.69	26.3267	206.756
46	1770.44	26.7042	215.07
47	1401.44	26.8245	217.72
48	2172.5	27.0076	221.752
49	1552.73	27.4942	232.471
50	15207.8	27.8581	240.486
51	41165.7	28.1371	246.633
52	1513.25	28.5646	256.048
53	1572.12	29.3323	272.958
54	1801.37	29.6504	279.964
55	24249.9	30.3658	295.723
56	21727.1	30.3754	295.933
57	21724.	30.6238	301.573
58	2948.81	32.7155	353.091
59	5952.87	32.922	358.177
60	1476.69	34.1056	387.329

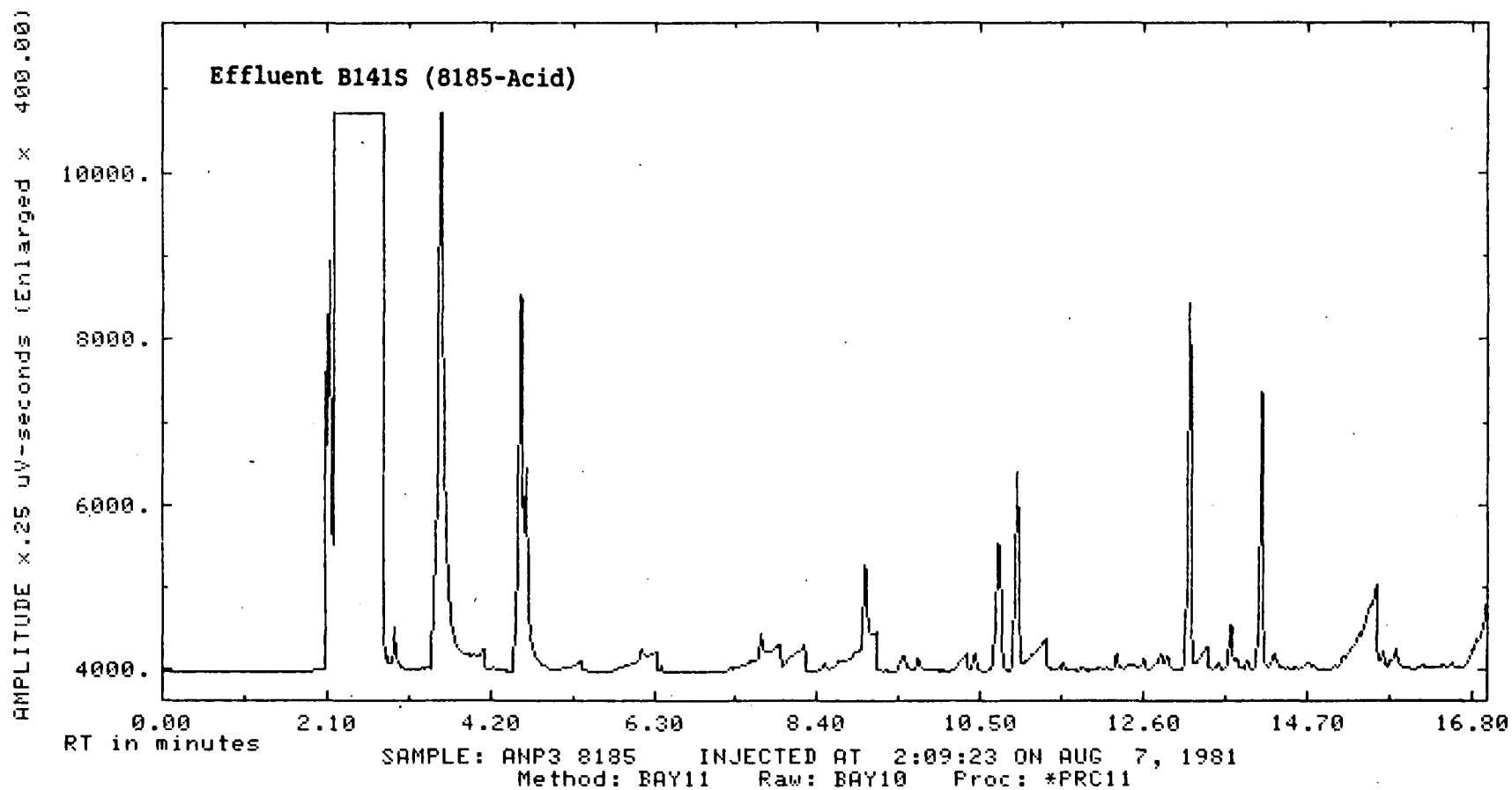


Figure F-23. FID/GC chromatogram of relative retention indices for components in the extractable organics acid fraction from effluent B141S.

F-6

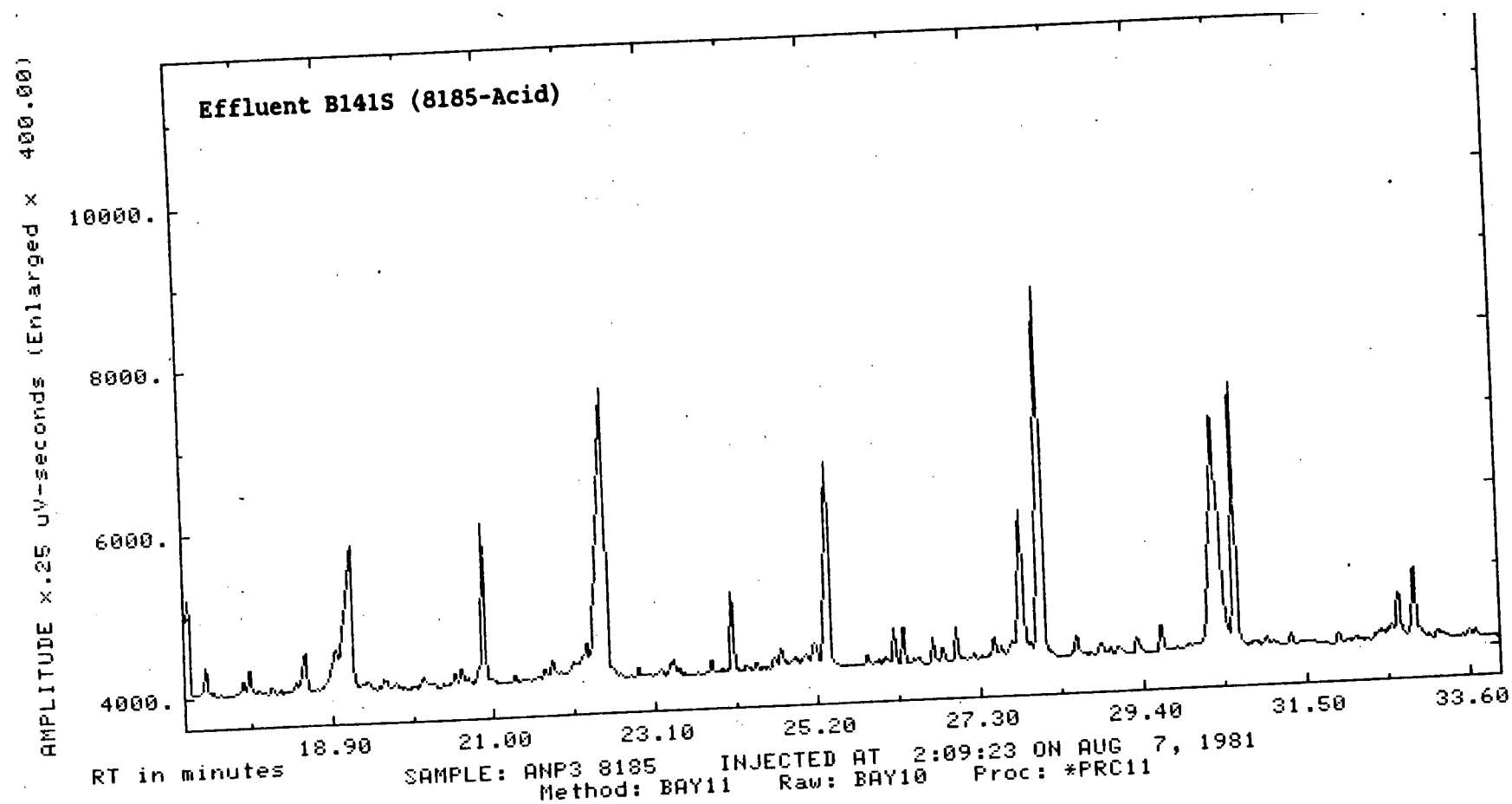


Figure F-23 (continued)

F-91

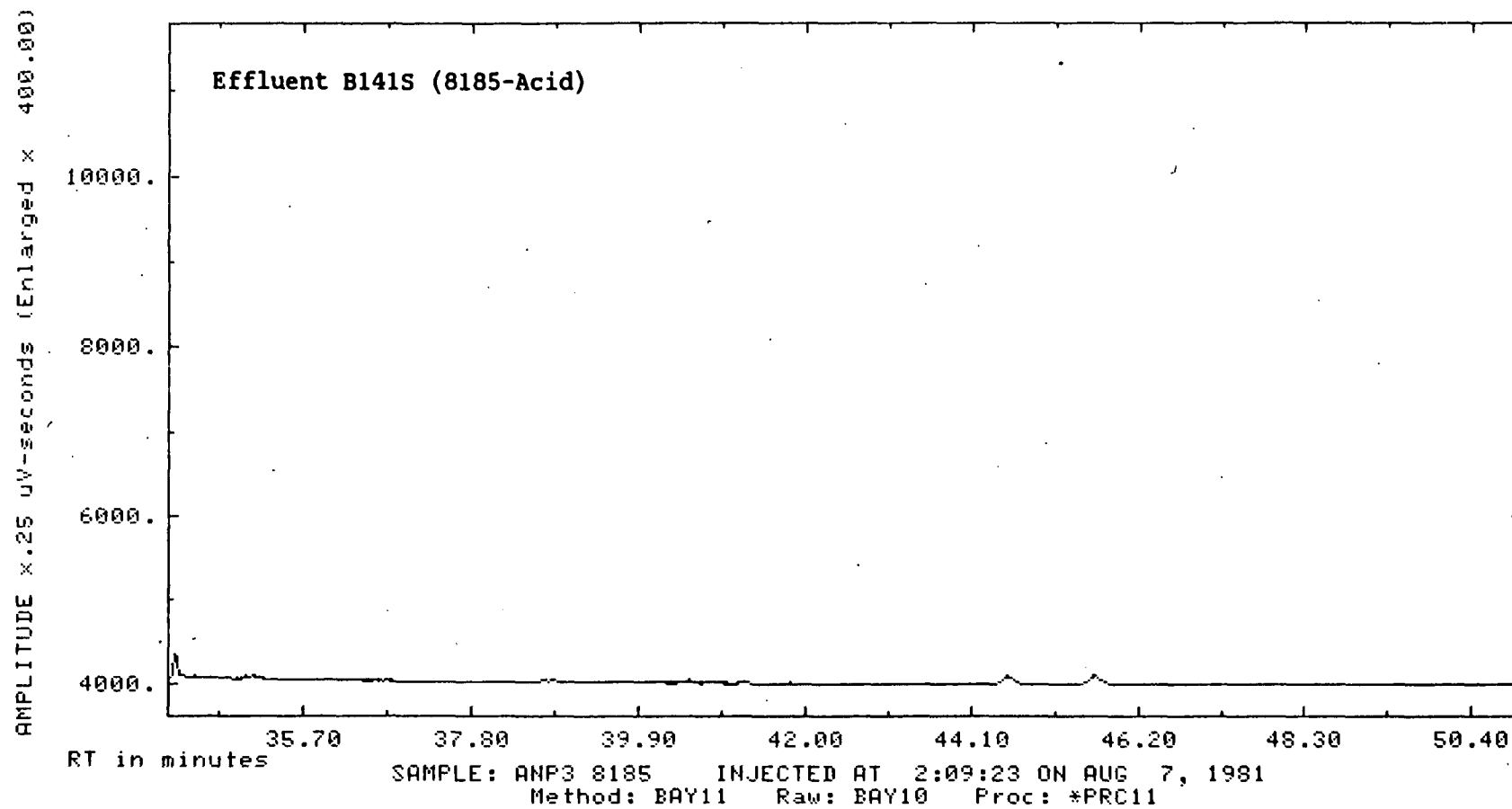


Figure F-23 (continued)

TABLE F-24. RELATIVE RETENTION INDICES FOR COMPONENTS
IN THE EXTRACTABLE ORGANICS BASE/NEUTRAL
FRACTION FROM EFFLUENT B141S, FID/GC

PROCESSED FILE: DUCK Effluent B141S (8185-Base/Neutral)
RAW FILE: BAY60

SAMPLE NAME: BNP3 8185

RELATIVE RETENTION VALUES

OUTPUT FILE: OPF2

PEAK#	AREA	TIME	INDEX
1	1356.5	1.93125	***
2	5277.67	2.08782	***
3	5.97145E+07	2.18542	***
4	3247.12	2.94939	***
5	7188.54	3.47217	***
6	103436.	3.53049	***
7	1188.04	3.83333	***
8	68925.6	4.57561	***
9	40178.2	4.63546	***
10	8423.19	5.25061	***
11	2814.62	6.11012	***
12	19887.8	6.30585	***
13	1444.62	7.31042	***
14	4472.16	7.97812	***
15	3516.8	8.645	***
16	1418.47	8.78194	***
17	12665.4	8.99417	***
18	2191.75	9.68594	***
19	1431.66	10.25	***
20	9750.05	10.4375	***
21	204786.	10.8625	***
22	8628.52	11.276	***
23	10590.1	11.3922	***
24	2761.22	11.5236	***
25	2947.05	11.726	***
26	9042.5	11.8044	***
27	4468.71	11.9828	***
28	4036.24	12.0427	***
29	17807.1	12.1369	***
30	45631.4	12.2508	***
31	1145.19	12.512	***
32	3475.33	12.6955	***
33	2345.08	12.758	***
34	1927.54	12.8312	***
35	2420.42	12.9126	***

TABLE F-24 (continued)

36	1546.75	13.0596	***
37	1142.95	13.1966	***
38	9700.19	13.4037	***
39	1160.5	13.5507	***
40	26156.1	13.7314	***
41	98805.4	14.1666	***
42	2261.09	14.2561	***
43	1200.03	14.4104	***
44	1455.64	14.4484	***
45	4635.62	14.578	***
46	2202.48	14.6569	***
47	7090.34	14.8034	***
48	1534.85	14.8463	***
49	2311.45	14.9238	***
50	2872.61	15.1034	***
51	3153.93	15.2393	***
52	5130.91	15.2995	***
53	5821.72	15.4059	***
54	1510.22	15.5167	***
55	4117.64	15.6742	***
56	1475.81	15.6887	***
57	32958.5	15.8052	***
58	23528.7	15.8472	***
59	3362.48	15.9433	***
60	2703.87	16.1271	***
61	1151.41	16.6729	***
62	2664.06	16.871	***
63	1819.56	17.0059	***
64	4708.44	17.0989	***
65	3964.46	17.2336	***
66	10640.2	17.2956	***
67	1144.11	17.3964	***
68	19462.	17.7892	***
69	3596.97	17.8727	***
70	1049.49	17.9867	***
71	6886.82	18.0566	***
72	2623.15	18.2069	***
73	4203.52	18.5383	***

TABLE F-24 (continued)

74	10162.8	18.6133	***
75	1633.55	18.8597	***
76	2745.59	18.9391	***
77	3423.69	19.1867	***
78	62385.5	19.3863	***
79	1047.39	19.4525	100.191
80	14768.7	19.5985	102.412
81	1851.11	19.9021	107.033
82	3178.2	20.1781	111.235
83	2831.55	20.2407	112.188
84	1099.87	20.4448	115.294
85	2586.8	20.5073	116.245
86	1782.02	20.6	117.656
87	6253.66	20.6725	118.76
88	59910.2	20.8588	121.594
89	125366.	20.9568	123.086
90	10711.	21.301	128.325
91	11916.9	21.4988	131.337
92	2079.25	21.8192	136.213
93	2808.52	22.059	139.863
94	3232.8	22.4047	145.125
95	14547.1	22.4899	146.422
96	3741.45	22.5684	147.616
97	2838.84	22.6659	149.1
98	3999.69	22.8417	151.776
99	13945.7	22.9044	152.731
100	9825.12	22.9968	154.137
101	4731.61	23.1901	157.079
102	2910.01	23.6552	164.158
103	1869.61	23.8244	166.734
104	3002.3	23.8754	167.51
105	2574.68	23.9762	169.043
106	13517.9	24.0465	170.114
107	62397.7	24.1449	171.612
108	1252.22	24.3635	174.94
109	13690.8	24.4282	175.924
110	8619.95	24.5113	177.188
111	15147.4	24.5891	178.374
112	14014.5	24.6654	179.535
113	4232.81	24.7278	180.485
114	8185.16	24.7393	180.658
115	2830.51	24.8109	181.749
116	2034.3	24.9512	183.885

TABLE F-24 (continued)

117	1964.96	25.026	185.022
118	3012.13	25.0777	185.81
119	3454.76	25.1974	187.632
120	6494.19	25.2814	188.91
121	13227.2	25.4135	190.921
122	37183.5	25.5084	192.365
123	3775.23	25.6174	194.025
124	10412.4	25.8697	197.864
125	4528.41	26.0062	199.943
126	3487.12	26.2402	205.07
127	8299.62	26.3325	207.104
128	9079.66	26.4532	209.763
129	1238.34	26.6793	214.742
130	17819.8	26.8345	218.162
131	7530.48	26.9534	220.781
132	50921.9	27.0481	222.865
133	3475.66	27.1485	225.076
134	4966.66	27.2467	227.24
135	16068.7	27.5454	233.819
136	6566.52	27.6137	235.324
137	9003.17	27.8227	239.928
138	102334.	28.0471	244.87
139	240597.	28.3722	252.032
140	28836.4	28.3845	252.303
141	34796.	28.4057	252.769
142	64430.	28.4267	253.232
143	10248.3	28.5261	255.42
144	4031.8	28.5673	256.328
145	4081.46	28.6295	257.698
146	10305.4	28.9119	263.92
147	4838.43	28.9998	265.854
148	4638.25	29.1117	268.32
149	3666.28	29.2196	270.695
150	10862.3	29.4516	275.806
151	1778.46	29.5988	279.048
152	38352.3	29.7032	281.349
153	3531.2	29.8318	284.181

TABLE F-24 (continued)

154	5632.25	29.9	285.683
155	4705.26	29.9953	287.783
156	12823.6	30.0864	289.789
157	8033.2	30.1924	292.123
158	1882.19	30.2155	292.633
159	359892.	30.5529	300.073
160	14505.5	30.5908	301.006
161	32988.6	30.6042	301.338
162	199429.	30.6326	302.039
163	163801.	30.8678	307.846
164	10758.3	31.045	312.222
165	6743.39	31.1617	315.103
166	3131.03	31.3405	319.517
167	1164.02	31.4133	321.316
168	1277.72	31.4696	322.707
169	2186.33	31.8388	331.822
170	3203.3	31.9821	335.359
171	1971.14	32.182	340.297
172	1202.05	32.3039	343.307
173	4131.95	32.6108	350.885
174	1103.45	32.6941	352.941
175	1517.7	32.9382	358.968
176	6101.99	33.0418	361.526
177	1757.52	33.1065	363.123
178	3704.22	33.2901	367.658
179	3046.06	33.5349	373.701
180	1721.22	33.7992	380.228
181	1651.7	34.195	390.
182	3411.44	34.3579	394.022
183	2197.61	34.5288	398.241
184	2490.17	34.9979	406.555
185	7989.57	35.0726	407.785
186	1625.25	35.1833	409.61
187	1999	35.4911	414.681
188	1142.81	36.2109	426.539
189	1262.75	36.7385	435.231
190	4580.12	38.8219	469.553
191	1796.12	41.213	506.157
192	24693.5	44.5932	544.481
193	21462	45.6536	556.503

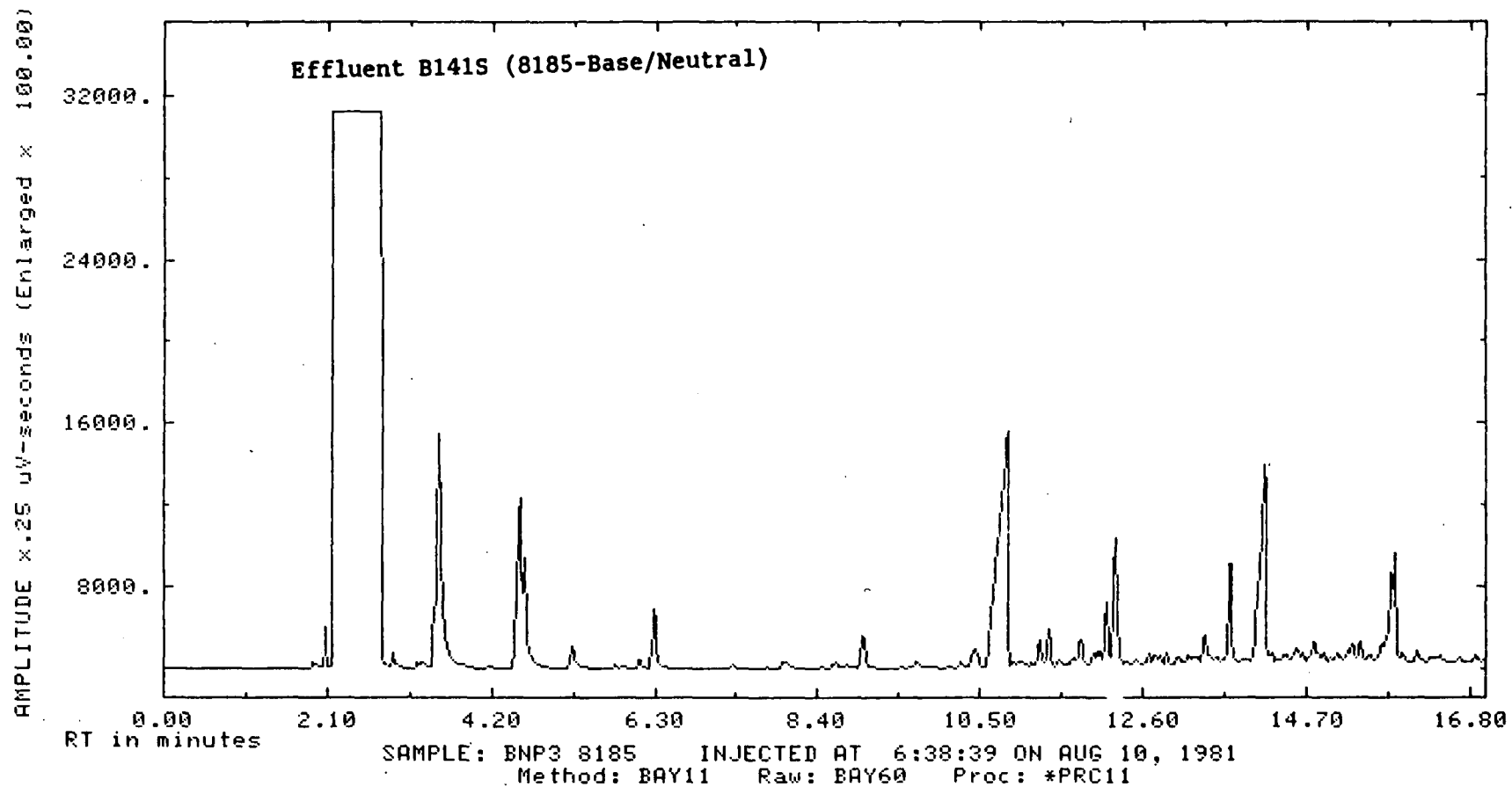


Figure F-24. FID/GC chromatogram of relative retention indices for components in the extractable organics base/neutral fraction from effluent B141S.

86-I

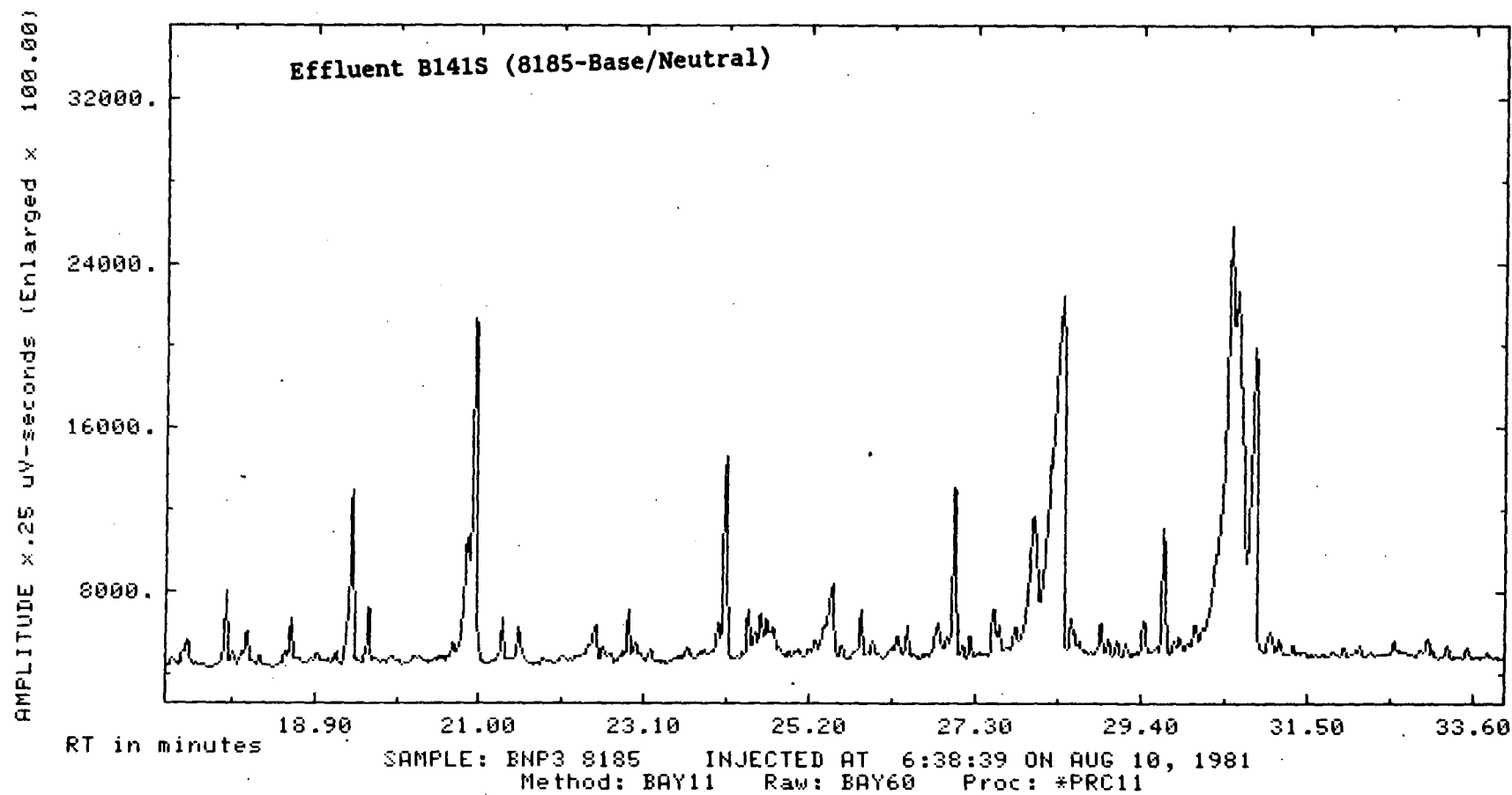


Figure F-24 (continued)

F-99

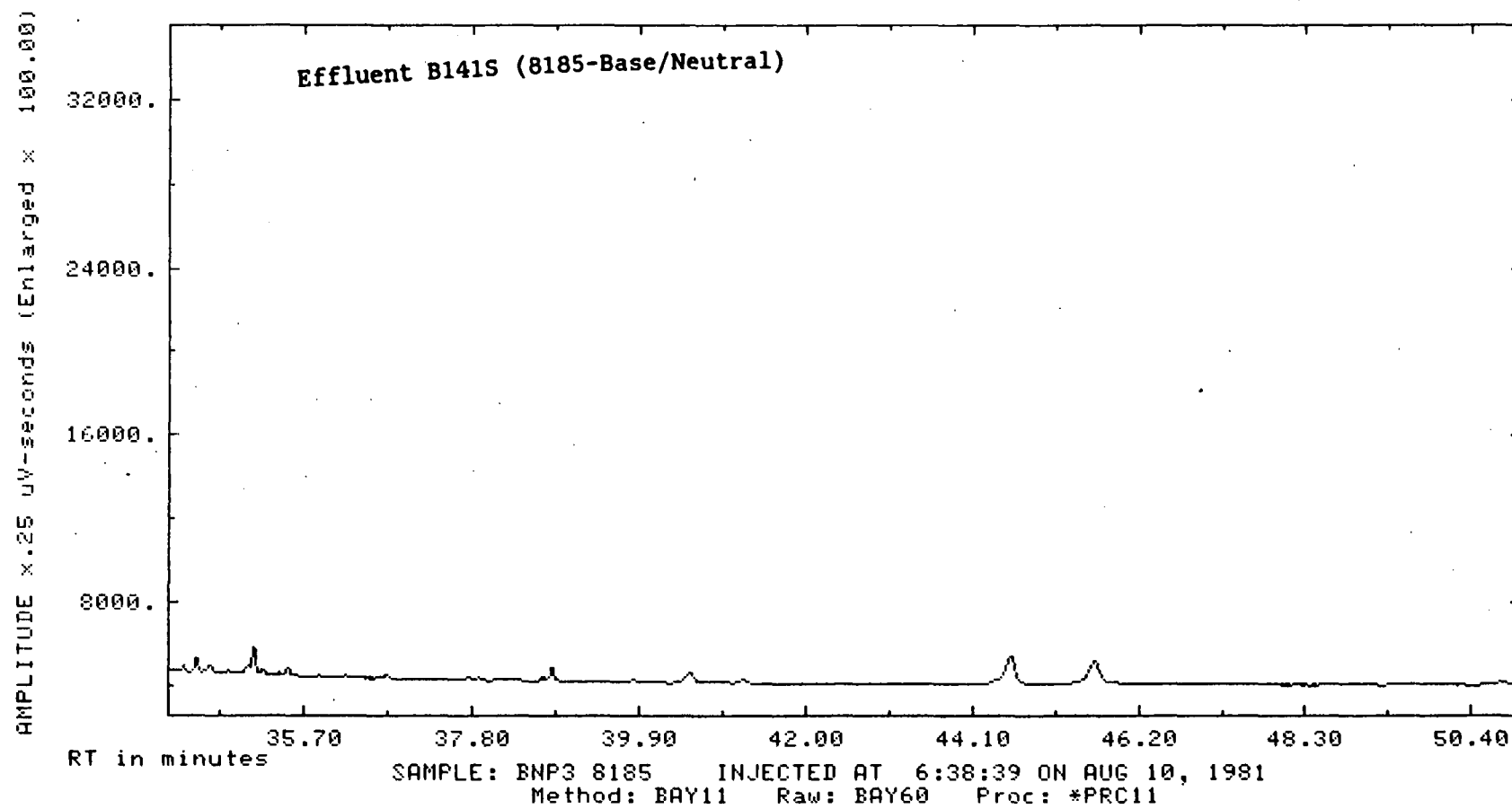


Figure F-24 (continued)

TABLE F-25. RELATIVE RETENTION INDICES FOR COMPONENTS
IN THE EXTRACTABLE ORGANICS ACID FRACTION
FROM EFFLUENT B142S, FID/GC

PROCESSED FILE: *PRC11 Effluent B142S (8184-Acid)
RAW FILE: BAY9

SAMPLE NAME: ANP3 8184

RELATIVE RETENTION VALUES

OUTPUT FILE: OFF1

PEAK#	AREA	TIME	INDEX
1	51106.	2.129	***
2	5.47952E+07	2.22708	***
3	1023	3.37708	***
4	88331.6	3.5662	***
5	1970.87	3.87083	***
6	2346.5	4.06319	***
7	1817.75	5.08125	***
8	2728	5.57232	***
9	1097	6.01146	***
10	3678	8.08687	***
11	4862.91	8.56968	***
12	13467.7	9.01322	***
13	1331.23	11.6692	***
14	21151.	12.0548	***
15	4110.73	12.9125	***
16	9119.02	13.0409	***
17	1254.5	13.725	***
18	2823.03	14.2773	***
19	17977	14.5321	***
20	10143.2	15.3833	***

TABLE F-25 (continued)

21	2609.11	15.5734	***
22	7958.25	15.7008	***
23	6647.7	16.2285	***
24	28261.7	16.7453	***
25	1029.52	16.8375	***
26	1200.26	16.9358	***
27	5433.44	17.0588	***
28	5101.64	17.4313	***
29	2376.04	17.5771	***
30	3410.5	18.4597	***
31	1432.28	19.2417	***
32	1123.71	19.3589	***
33	1977.8	21.2194	126.932
34	1774.41	21.5698	132.265
35	8284.5	21.9244	137.663
36	3456.5	23.3363	159.151
37	1244	24.1354	171.315
38	3257.37	25.1493	186.747
39	6064	25.6936	195.031
40	2796.56	27.0396	222.458

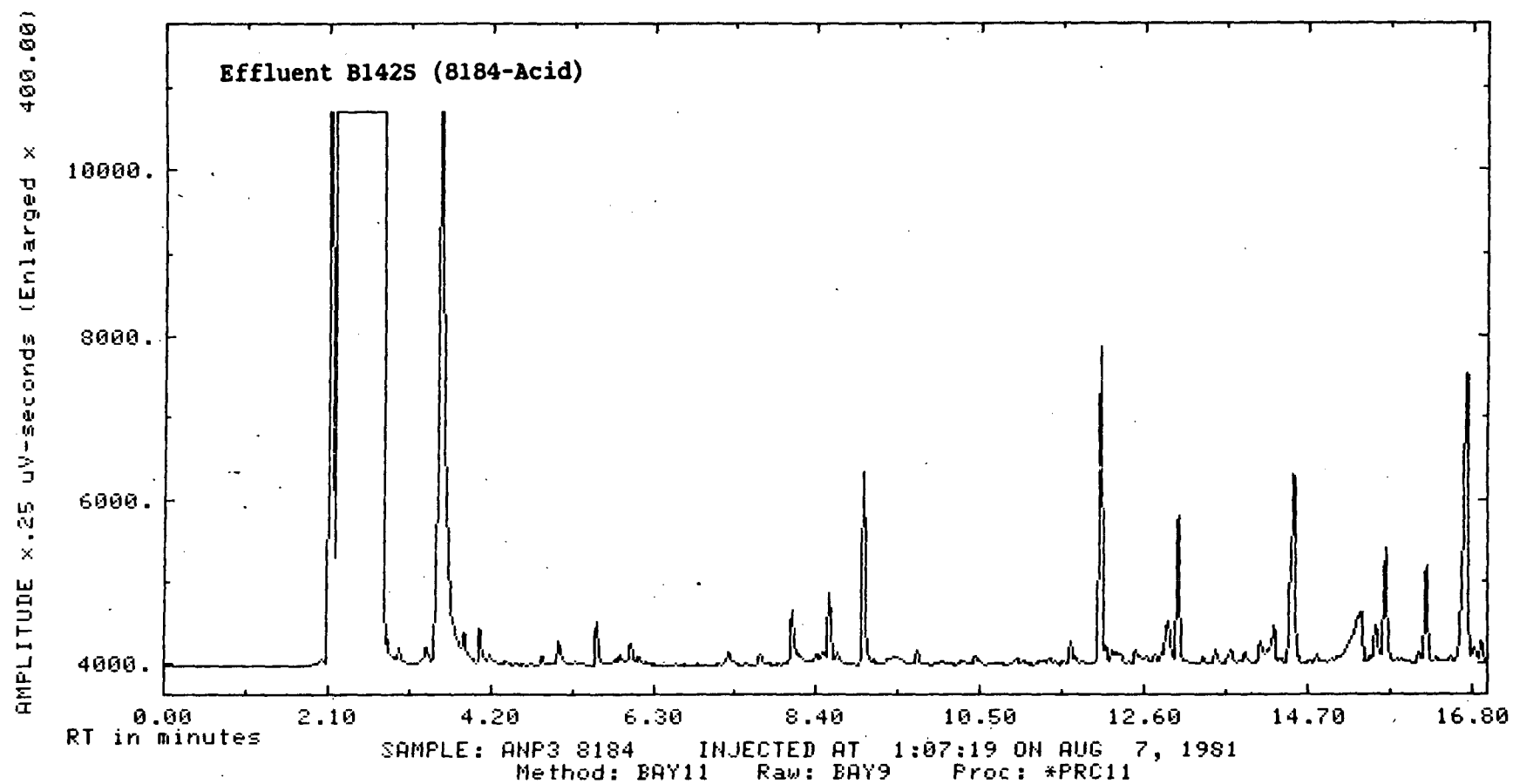


Figure F-25. FID/GC chromatogram of relative retention indices for components in the extractable organics acid fraction from effluent B142S.

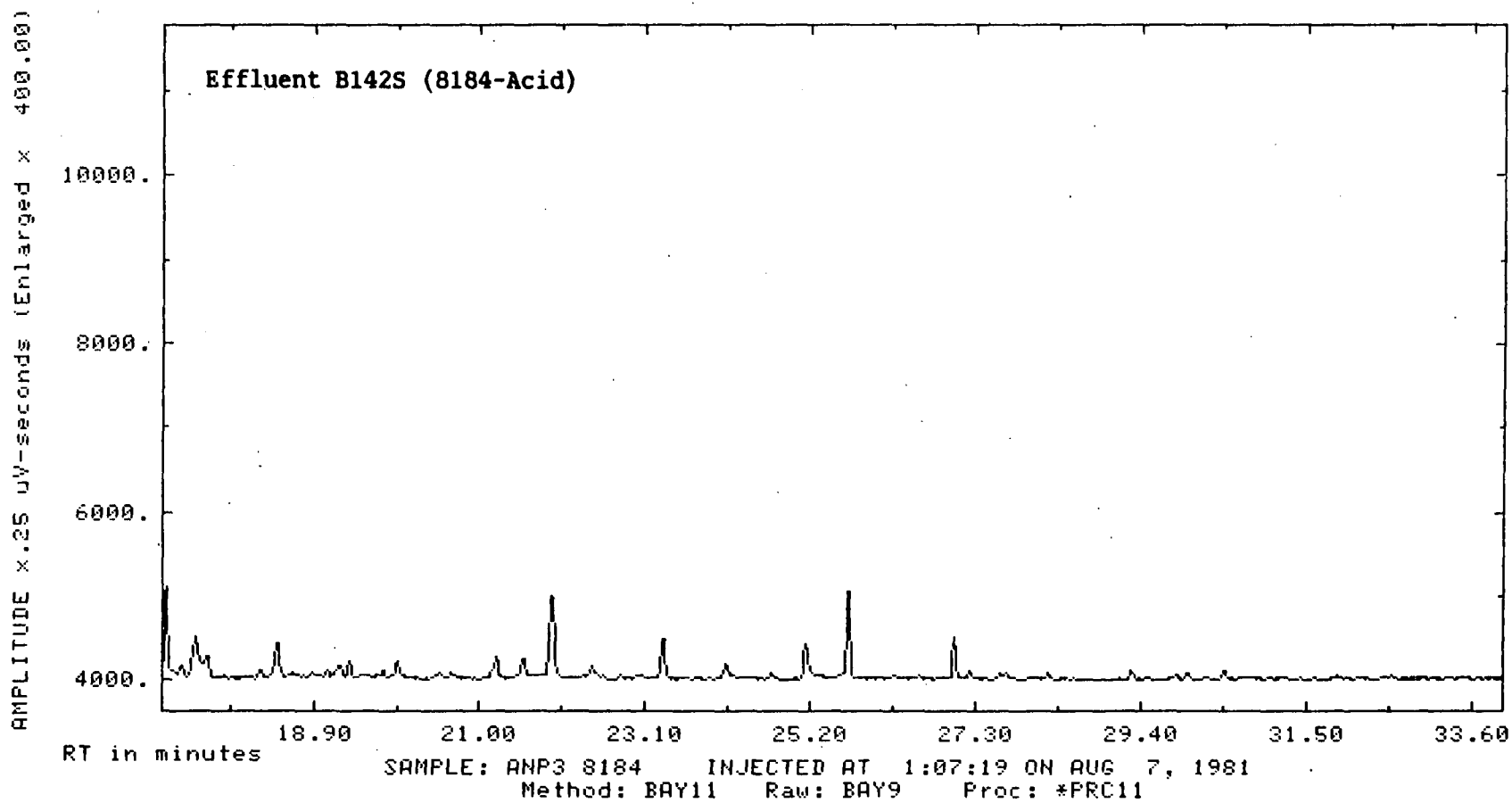


Figure F-25 (continued)

F-104

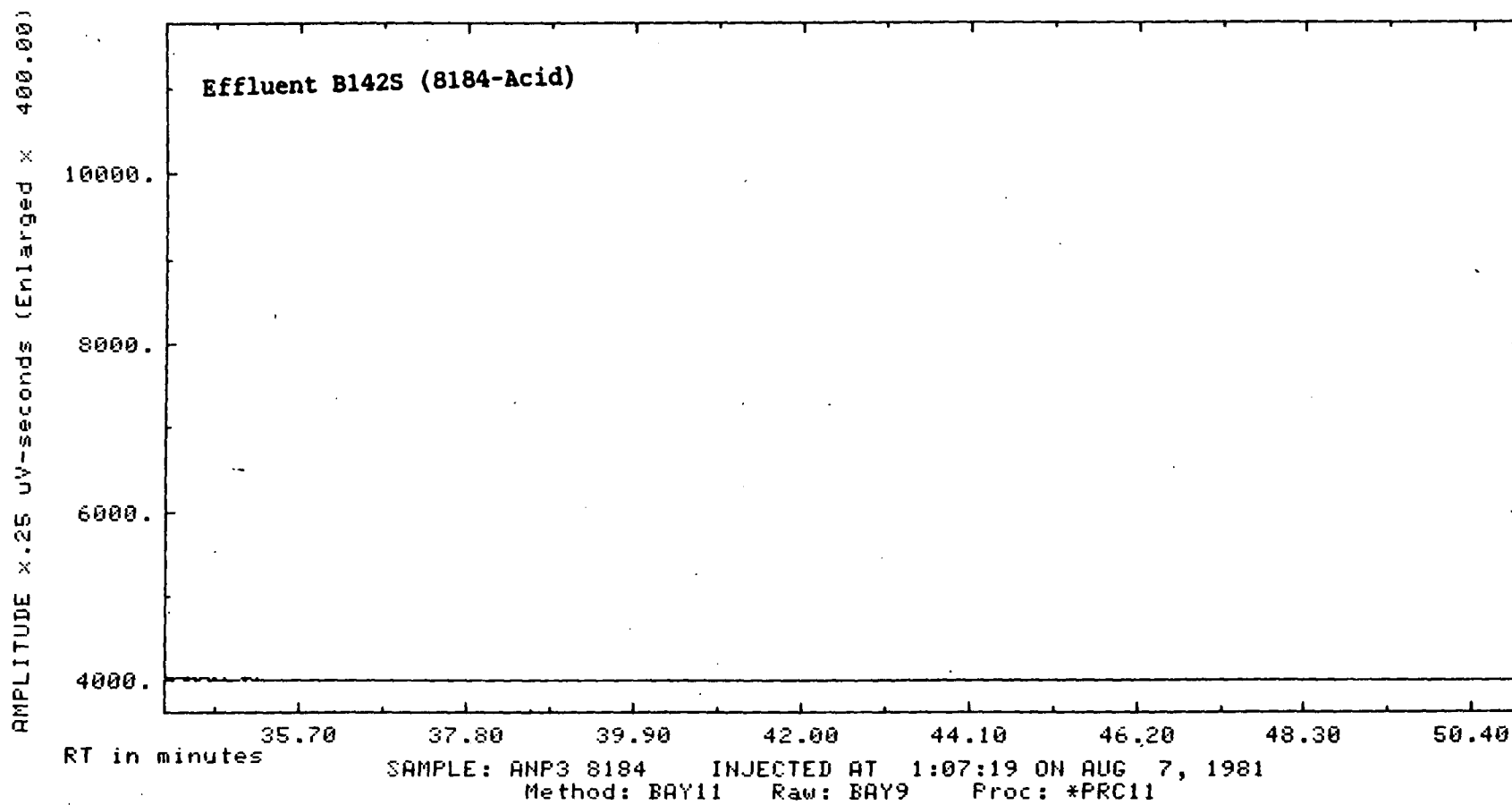


Figure F-25 (continued)

TABLE F-26. RELATIVE RETENTION INDICES FOR COMPONENTS
IN THE EXTRACTABLE ORGANICS BASE/NEUTRAL
FRACTION FROM EFFLUENT B142S, FID/GC

PROCESSED FILE: DUCK Effluent B142S (8184-Base/Neutral)
RAW FILE: BAY59

SAMPLE NAME: BNP3 8184

RELATIVE RETENTION VALUES

OUTPUT FILE: OFF2

PEAK#	AREA	TIME	INDEX
1	3569	2.05396	***
2	6394	2.08639	***
3	6.06277E+07	2.18333	***
4	1216.2	2.98845	***
5	7340.79	3.47188	***
6	93373.7	3.52888	***
7	36691.6	3.60656	***
8	3382.46	4.01667	***
9	1131.91	4.125	***
10	5673.87	4.66847	***
11	1425.75	4.80694	***
12	15744.6	5.24493	***
13	15096.5	7.65074	***
14	8768.16	7.73737	***
15	8832.16	7.95938	***
16	3281.3	8.02865	***
17	5408.84	8.39583	***
18	2534.31	8.47135	***
19	2131.71	8.54618	***
20	8529.87	8.63423	***
21	17064.1	8.99688	***
22	1521.06	9.1169	***
23	7043.06	10.4215	***
24	27789.7	10.8935	***
25	6936.57	10.9845	***
26	4318.45	11.0457	***
27	1729.37	11.2652	***
28	46157.6	12.1507	***
29	26318.9	12.2464	***
30	1896.34	12.7698	***
31	1544.44	12.925	***
32	15637.5	13.0536	***
33	1073.66	13.1448	***
34	3755.61	13.4886	***
35	1519.2	13.5799	***

TABLE F-26 (continued)

36	3112.34	13.7358	***
37	1771.32	14.0529	***
38	7514.84	14.1356	***
39	4149.21	14.2379	***
40	16304.4	14.3122	***
41	1156.54	14.5503	***
42	2585.75	14.9517	***
43	1293.05	15.0388	***
44	1389.44	15.1271	***
45	2437.97	15.2669	***
46	24646.1	15.5484	***
47	23176.7	15.7305	***
48	1042.12	15.8067	***
49	1695.55	15.8708	***
50	3501.16	16.1516	***
51	7531.41	16.2994	***
52	1016.18	16.3757	***
53	2582.69	16.7119	***
54	5235.66	16.7902	***
55	15195.3	16.8807	***
56	1605.27	17.0448	***
57	12728.2	17.1409	***
58	1868.68	17.2632	***
59	2574.8	17.3047	***
60	3019.55	17.818	***
61	3936.5	17.9075	***
62	1451.52	18.1534	***
63	2169.19	18.2463	***
64	7765.31	18.401	***
65	1512.66	18.6025	***
66	1316.73	18.6878	***
67	1089.7	18.746	***
68	1371.3	18.8901	***
69	6962.48	18.9689	***
70	7102.65	19.0369	***
71	3267.63	19.2189	***
72	2839.95	19.3133	***
73	45670.4	19.4145	***
74	4266.37	19.6226	102.78
75	1654.85	19.8655	106.477
76	1900.05	20.6932	119.074
77	5803.3	20.8726	121.805
78	1080.51	21.201	126.804
79	1733.25	21.3212	128.634

TABLE F-26 (continued)

80	12504.5	21.3997	129.829
81	12416.2	22.5302	147.035
82	1294.06	22.6729	149.207
83	1416.83	23.0104	154.344
84	2850.95	23.6601	164.233
85	2553.77	23.7687	165.887
86	2271.62	24.1704	172.
87	1794.56	25.2687	188.718
88	1715.75	25.8247	197.179
89	1355.69	27.1417	224.927
90	1182.5	28.2531	249.408
91	1761.25	28.633	257.775
92	1453.5	28.7938	261.316
93	9077.92	29.2196	270.695
94	2430.2	29.2992	272.45
95	2078.25	29.5118	277.132
96	39369.5	30.5257	299.465
97	7711.06	30.7064	303.862
98	3144.37	30.8542	307.51
99	4727	31.056	312.494
100	4819.36	31.2023	316.106
101	2125.97	32.7729	354.887
102	1577.75	33.0292	361.214
103	2358.25	34.5184	397.985
104	1314.38	34.9993	406.578
105	1098.62	35.1755	409.481
106	1293.69	35.8715	420.948
107	8928.94	40.5729	498.401

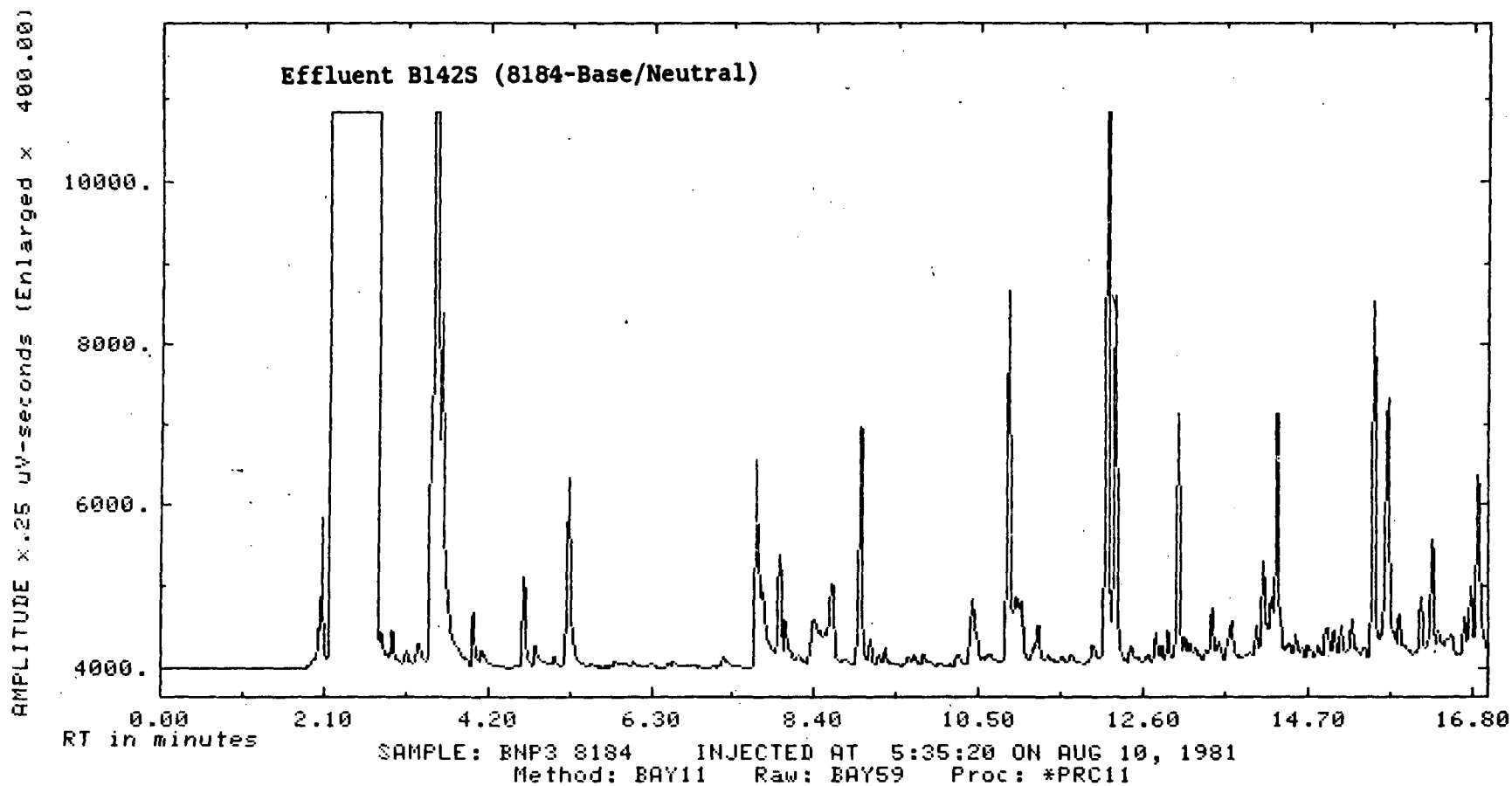


Figure F-26. FID/GC chromatogram of relative retention indices for components in the extractable organics base/neutral fraction from effluent B142S.

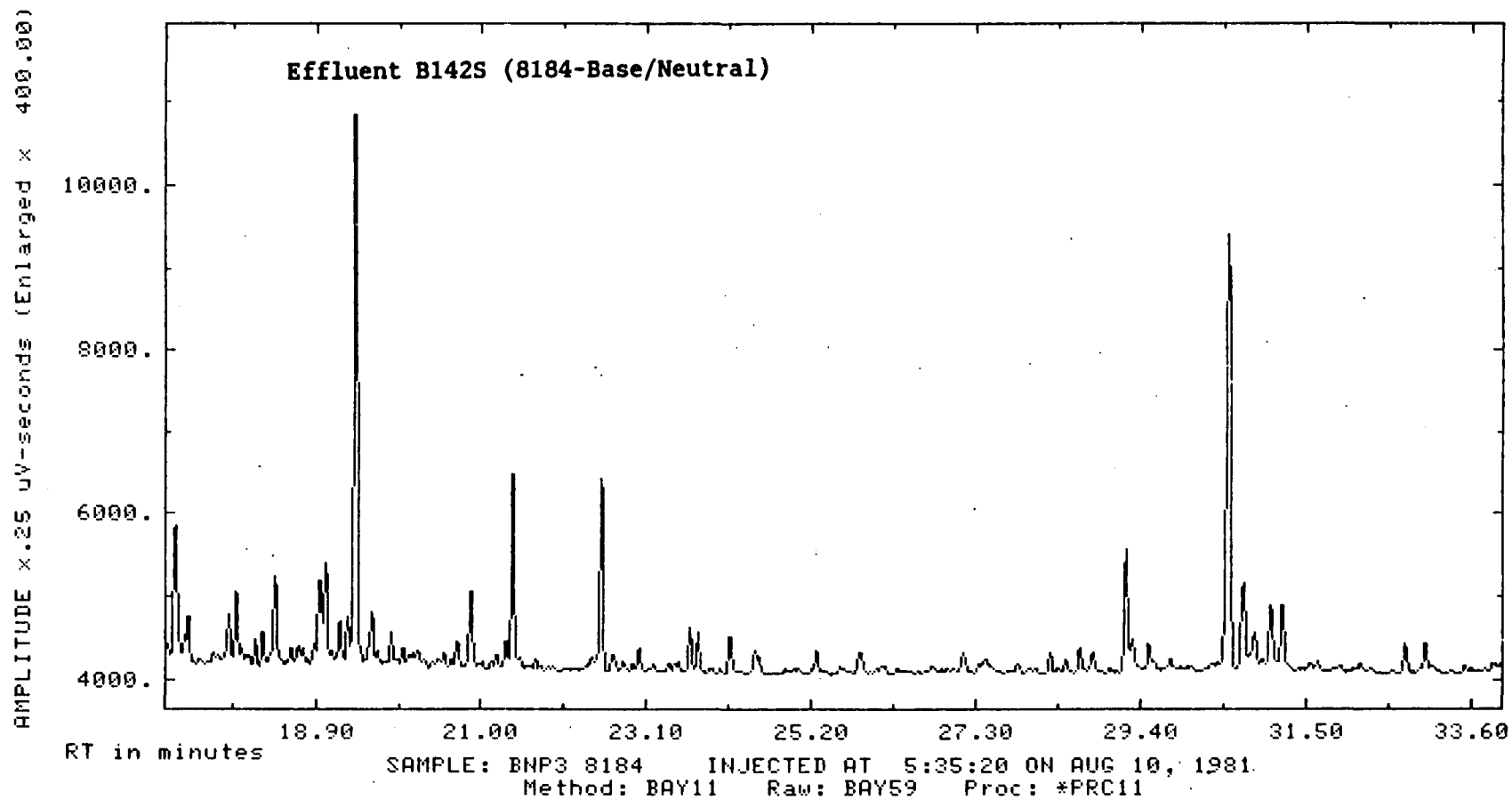


Figure F-26 (continued)

F-110

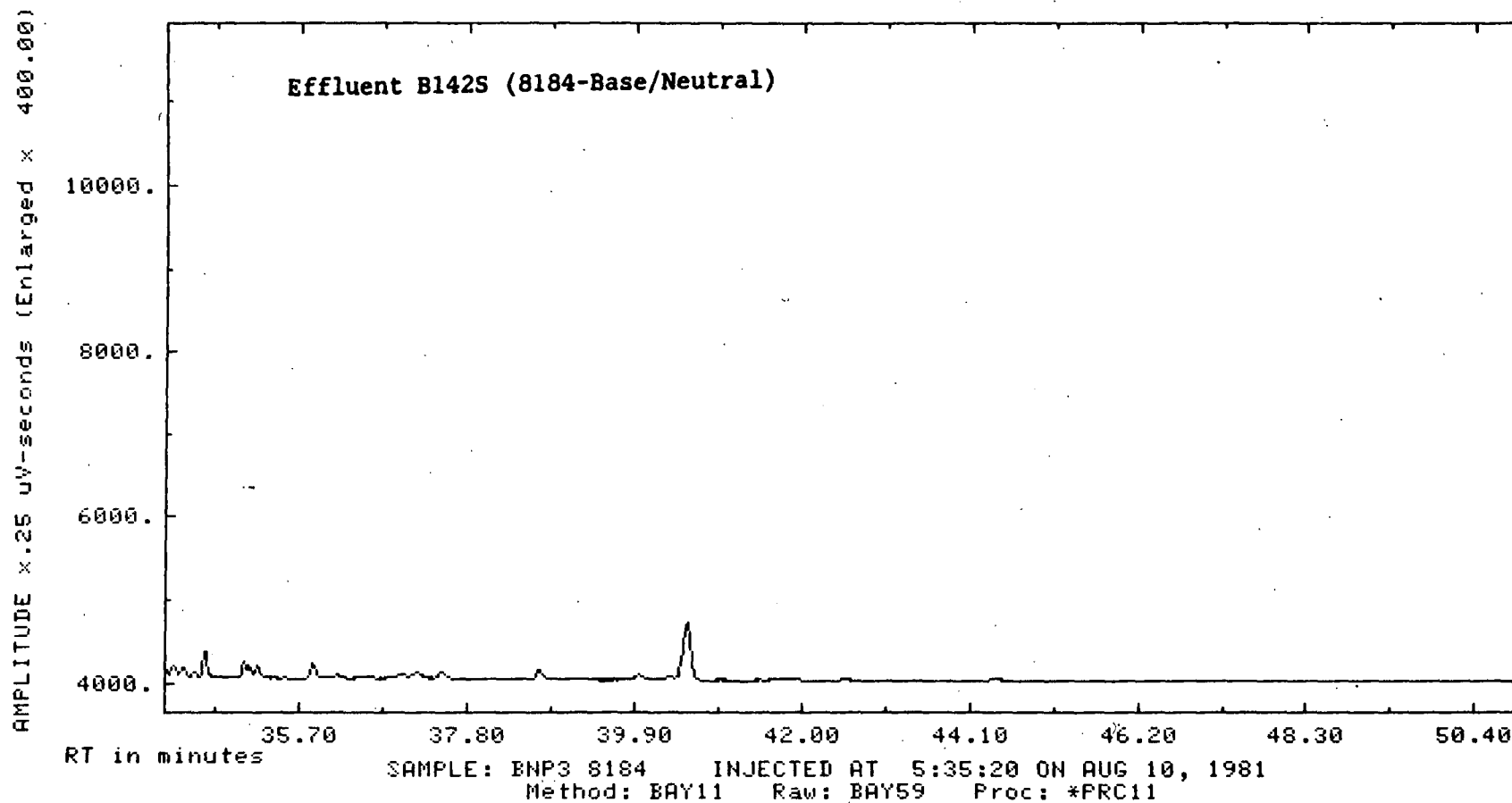


Figure F-26 (continued)

TABLE F-27. RELATIVE RETENTION INDICES FOR COMPONENTS
IN THE EXTRACTABLE ORGANICS ACID FRACTION
FROM EFFLUENT B149S, FID/GC

PROCESSED FILE: *PRC11 Effluent B149S (8193-Acid)
RAW FILE: RAY17

SAMPLE NAME: ANP3 8193

RELATIVE RETENTION VALUES

OUTPUT FILE: OFF1

PEAK#	AREA	TIME	INDEX
1	81586.4	2.12867	***
2	5.55512E+07	2.22083	***
3	1058.75	3.09676	***
4	108549.	3.56115	***
5	1866.75	4.05774	***
6	3440.75	7.66747	***
7	9895.06	10.9277	***
8	3461.44	12.0283	***
9	1906.87	12.87	***
10	3239.12	14.2701	***
11	3540.75	14.4774	***
12	1240.92	15.805	***
13	2049.92	16.6698	***
14	1014.64	19.5875	102.093
15	1295.31	20.6771	118.677
16	2277.14	21.874	136.894

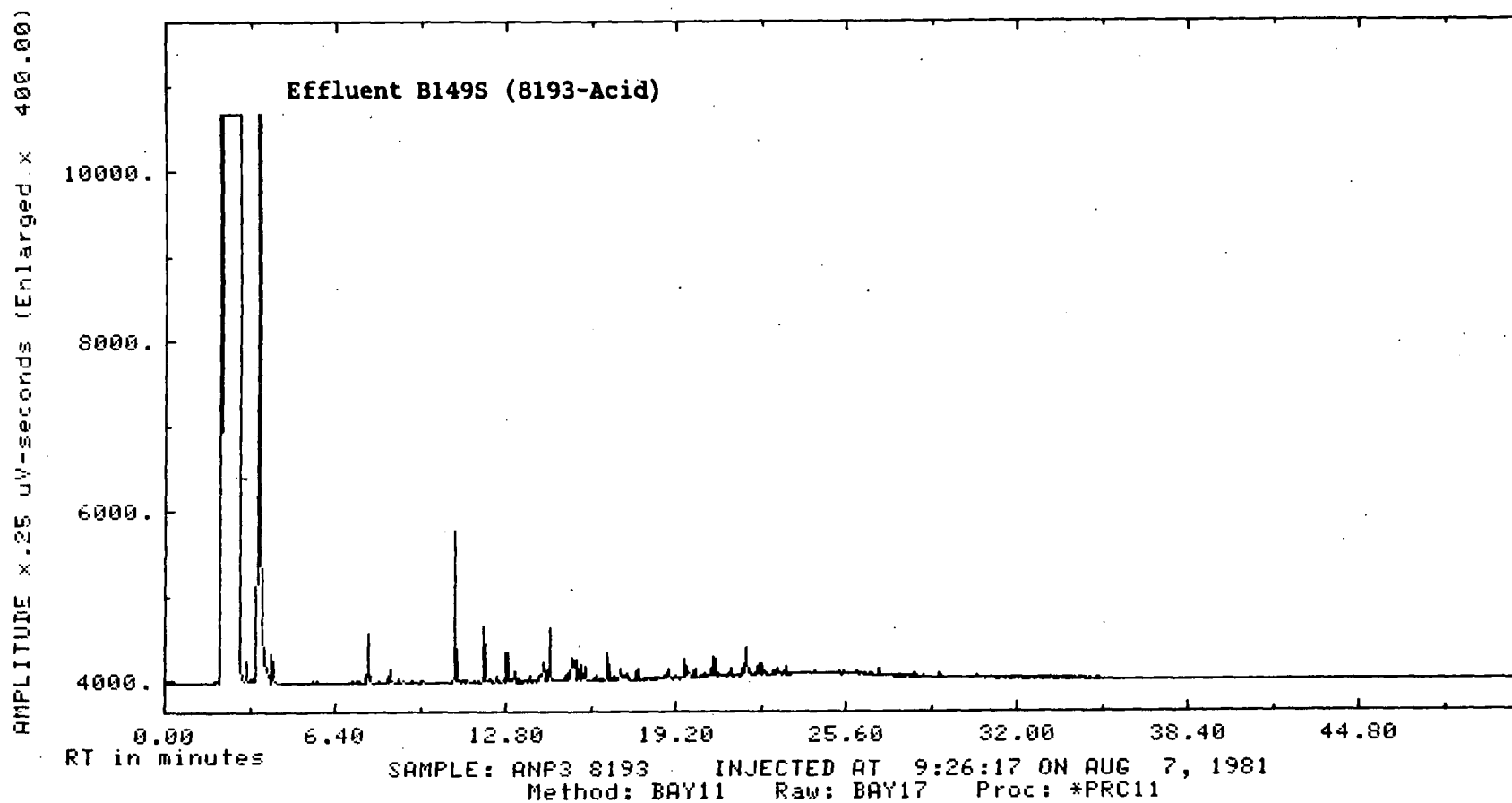


Figure F-27. FID/GC chromatogram of relative retention indices for components in the extractable organics acid fraction from effluent B149S.

TABLE F-28. RELATIVE RETENTION INDICES FOR COMPONENTS
IN THE EXTRACTABLE ORGANICS BASE/NEUTRAL
FRACTION FROM EFFLUENT B149S, FID/GC

PROCESSED FILE: DUCK Effluent B149S (8193-Base/Neutral)
RAW FILE: BAY68

SAMPLE NAME: BNP3 8193

RELATIVE RETENTION VALUES

OUTPUT FILE: OFF2

PEAK#	AREA	TIME	INDEX
1	7665.68	2.17477	***
2	5.41472E+07	2.2125	***
3	19706.5	3.53824	***
4	4675.87	11.3769	***
5	1820.56	11.9308	***
6	1947.5	12.2167	***
7	2000.9	12.7432	***
8	1258.59	12.8192	***
9	1238.25	12.9017	***
10	1423.62	13.049	***
11	13368.2	13.7122	***
12	1521.85	14.0204	***
13	2260	14.0986	***
14	1081.21	14.2264	***
15	1044.8	14.3091	***
16	2159.53	14.3903	***
17	1245.21	14.5115	***
18	3830.95	14.9081	***
19	1689.8	14.9946	***
20	2519.19	15.083	***
21	2990.41	15.2236	***
22	2173.45	15.5881	***
23	2288.53	15.6885	***
24	21812.5	15.8316	***
25	1004.55	15.9137	***
26	5755.97	16.1075	***
27	1075.89	16.2733	***
28	2047.96	16.3833	***
29	1166.2	16.4717	***
30	3043.03	16.6598	***
31	1021.23	16.7075	***
32	1912.09	16.8611	***
33	1850.91	16.8979	***
34	1989.16	16.9908	***
35	4305.19	17.0834	***

TABLE F-28 (continued)

36	1807.1	17.2163	***
37	9252.85	17.2558	***
38	25513.1	17.7768	***
39	5275.05	17.8526	***
40	1909.53	17.9833	***
41	1965.89	18.1058	***
42	2590.92	18.1933	***
43	2332.44	18.2964	***
44	3811.65	18.6369	***
45	2413.51	18.6982	***
46	1903.06	18.7539	***
47	2363.09	18.8409	***
48	4523.2	18.9339	***
49	3405.69	19.0569	***
50	6491.66	19.171	***
51	3743.66	19.3469	***
52	22708.2	19.5844	101.894
53	2134.79	19.6503	102.897
54	1492.87	19.7426	104.301
55	3839.19	19.8806	106.401
56	4620.89	20.1562	110.597
57	4650	20.2244	111.635
58	1763.78	20.425	114.688
59	3542.67	20.4839	115.584
60	1610.33	20.5785	117.025
61	7266.17	20.6497	118.107
62	1651.12	20.7885	120.221
63	17777.4	21.2804	127.708
64	1262.16	21.4172	129.79
65	1756.66	22.0358	139.205
66	1894.87	22.2035	141.758
67	1970.62	22.3021	143.258
68	8459	22.8817	152.081
69	1431.56	23.6283	163.444
70	3654.19	24.3965	175.137
71	2601.31	24.4869	176.513
72	2142.37	25.842	197.138
73	2218.52	25.9822	199.272
74	1923.06	27.2175	226.1
75	1816	28.5306	254.958
76	1000.97	29.7896	282.628
77	2636.94	30.4625	297.418
78	1209.12	34.4958	396.687

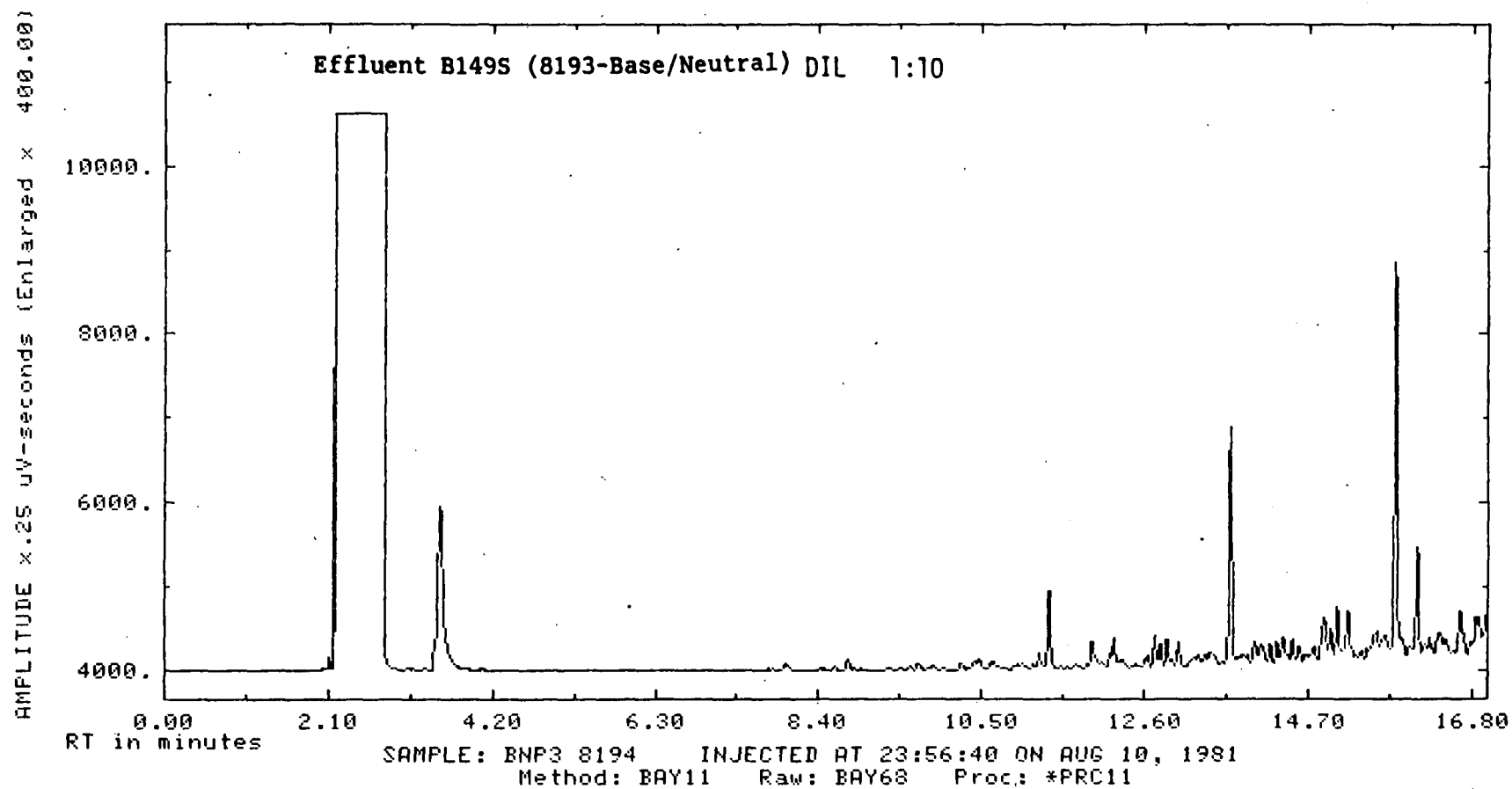


Figure F-28. FID/GC chromatogram of relative retention indices for components in the extractable organics base/neutral fraction from effluent B149S.

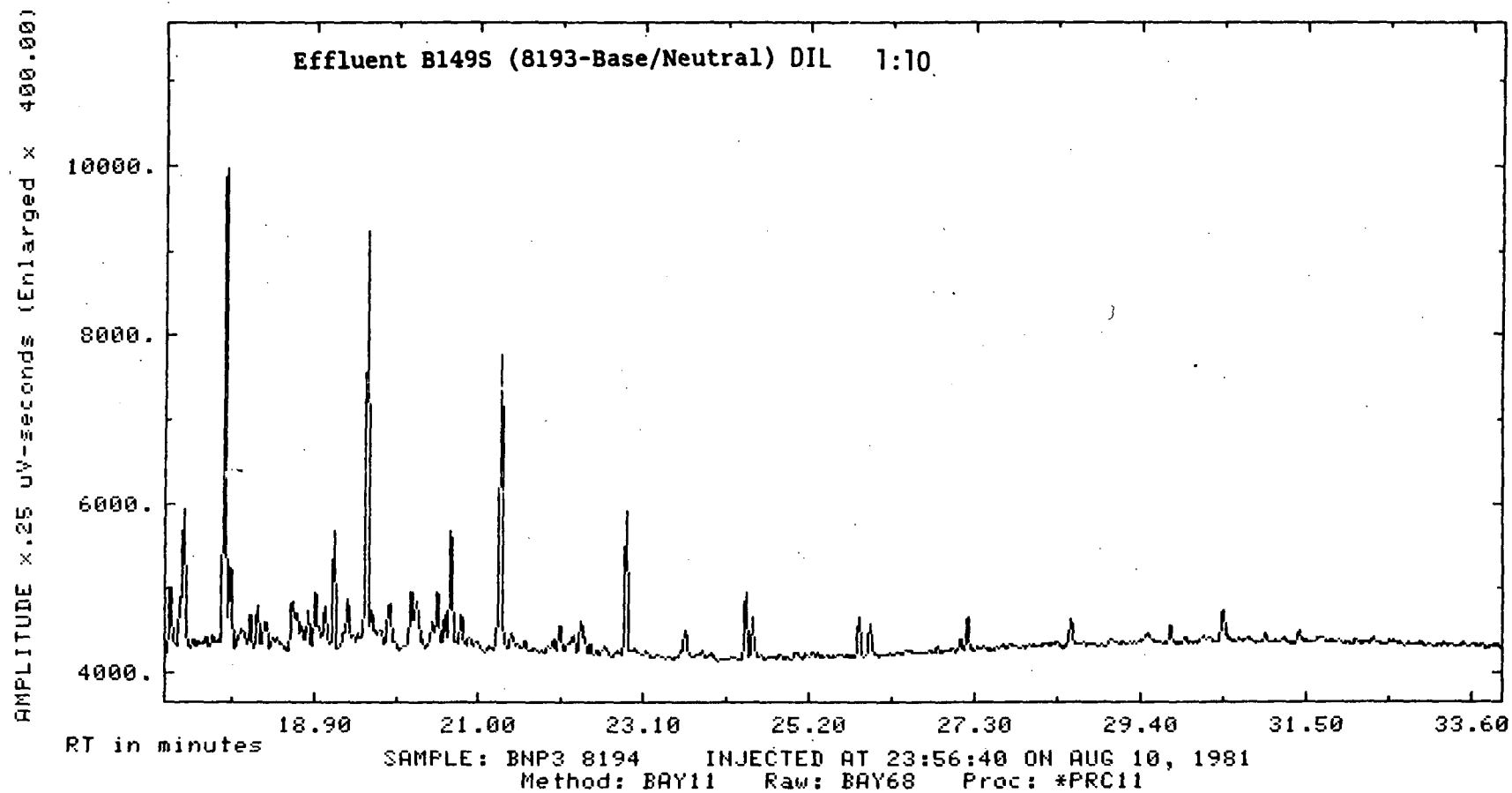


Figure F-28 (continued)

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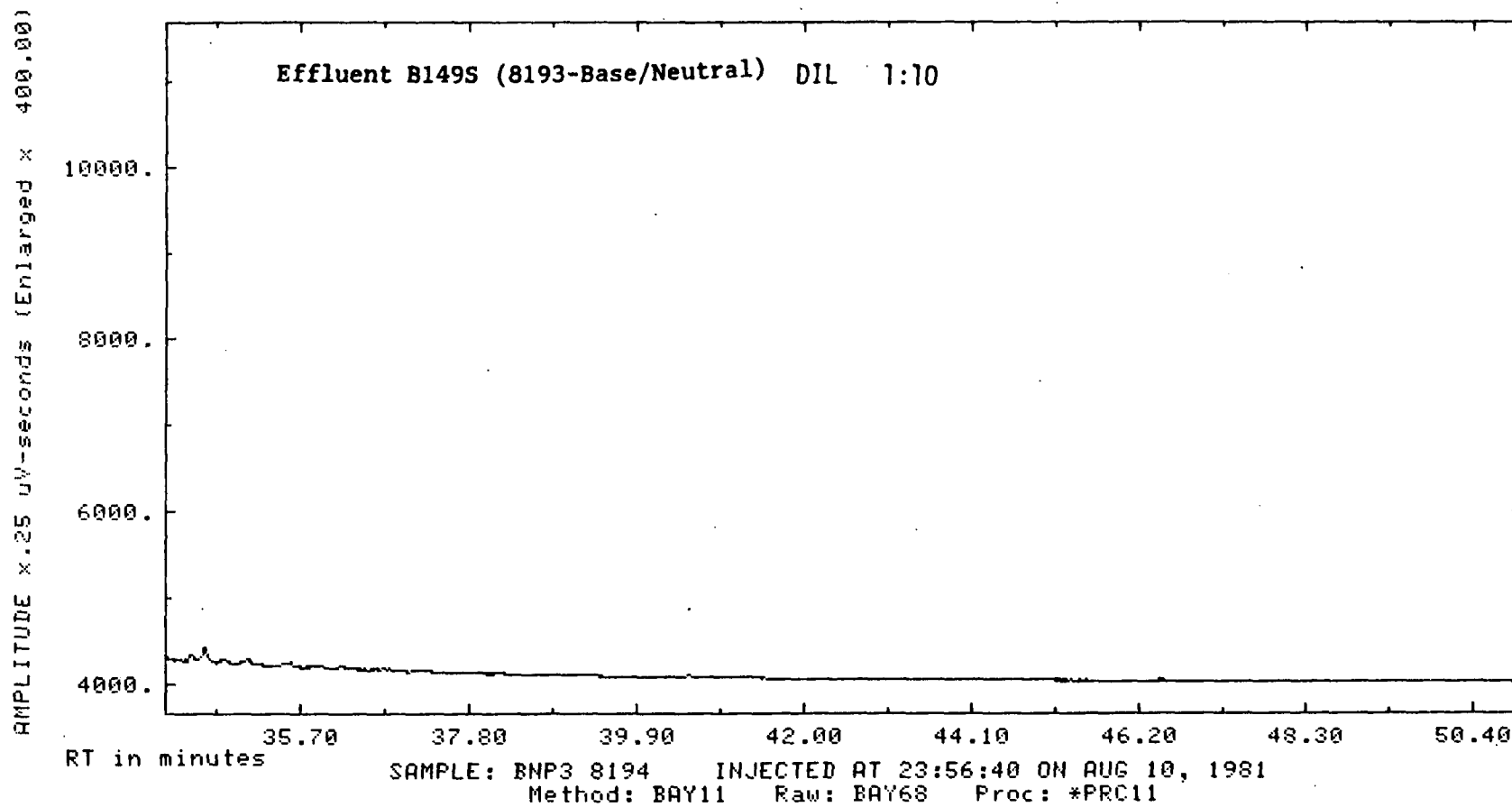


Figure F-28 (continued)

TABLE F-29. RELATIVE RETENTION INDICES FOR COMPONENTS
IN THE EXTRACTABLE ORGANICS ACID FRACTION
FROM EFFLUENT A101, FID/GC

PROCESSED FILE: IUCK Effluent A101 (8217-Acid)
RAW FILE: BAY39

SAMPLE NAME: ANP3 8217

RELATIVE RETENTION VALUES

OUTPUT FILE: OPF2

PEAK#	AREA	TIME	INDEX
1	11348.5	2.08999	***
2	5.99558E+07	2.18958	***
3	6938.67	3.47813	***
4	92278.1	3.53702	***
5	20202.1	10.9111	***
6	1240.5	35.0292	407.07

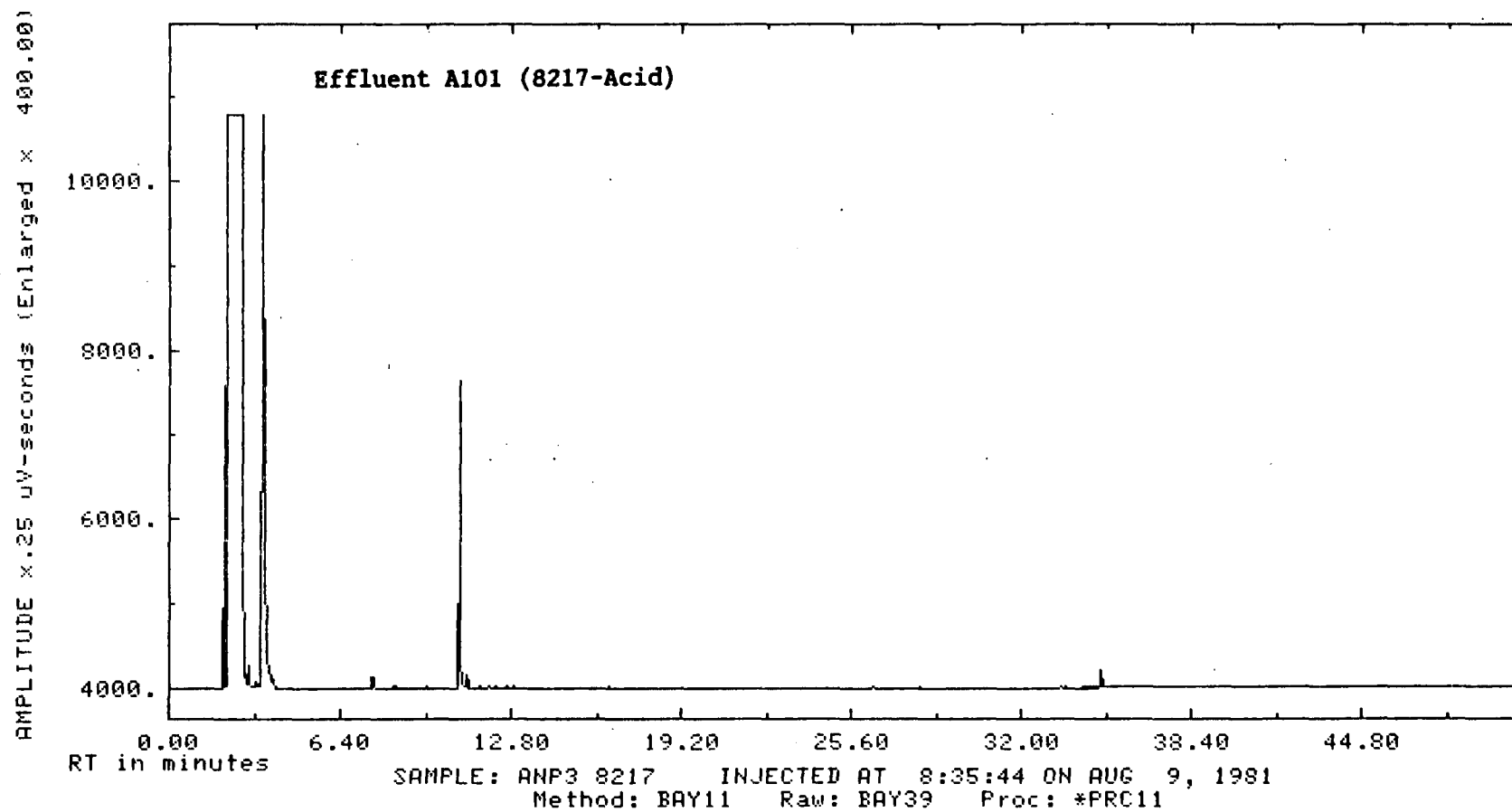


Figure F-29. FID/GC chromatogram of relative retention indices for components in the extractable organics acid fraction from effluent A101.

TABLE F-30. RELATIVE RETENTION INDICES FOR COMPONENTS
IN THE EXTRACTABLE ORGANICS BASE/NEUTRAL
FRACTION FROM EFFLUENT A101, FID/GC

PROCESSED FILE: *FRC11
RAW FILE: BAY91 Effluent A101 (8217-Base/Neutral)

SAMPLE NAME: BNP3 8217

RELATIVE RETENTION VALUES

OUTPUT FILE: OPF1

PEAK#	AREA	TIME	INDEX
1	8996.81	2.14662	***
2	81812.7	2.22875	***
3	5.71283E+07	2.25208	***
4	1130.5	3.41979	***
5	120182.	3.64517	***
6	1169.87	11.4535	***
7	23662.2	12.513	***
8	39381.6	19.6855	***
9	2270.25	20.3092	108.157
10	34114.4	30.8594	298.233
11	18465.5	34.9208	396.856
12	12986.5	41.2517	496.901

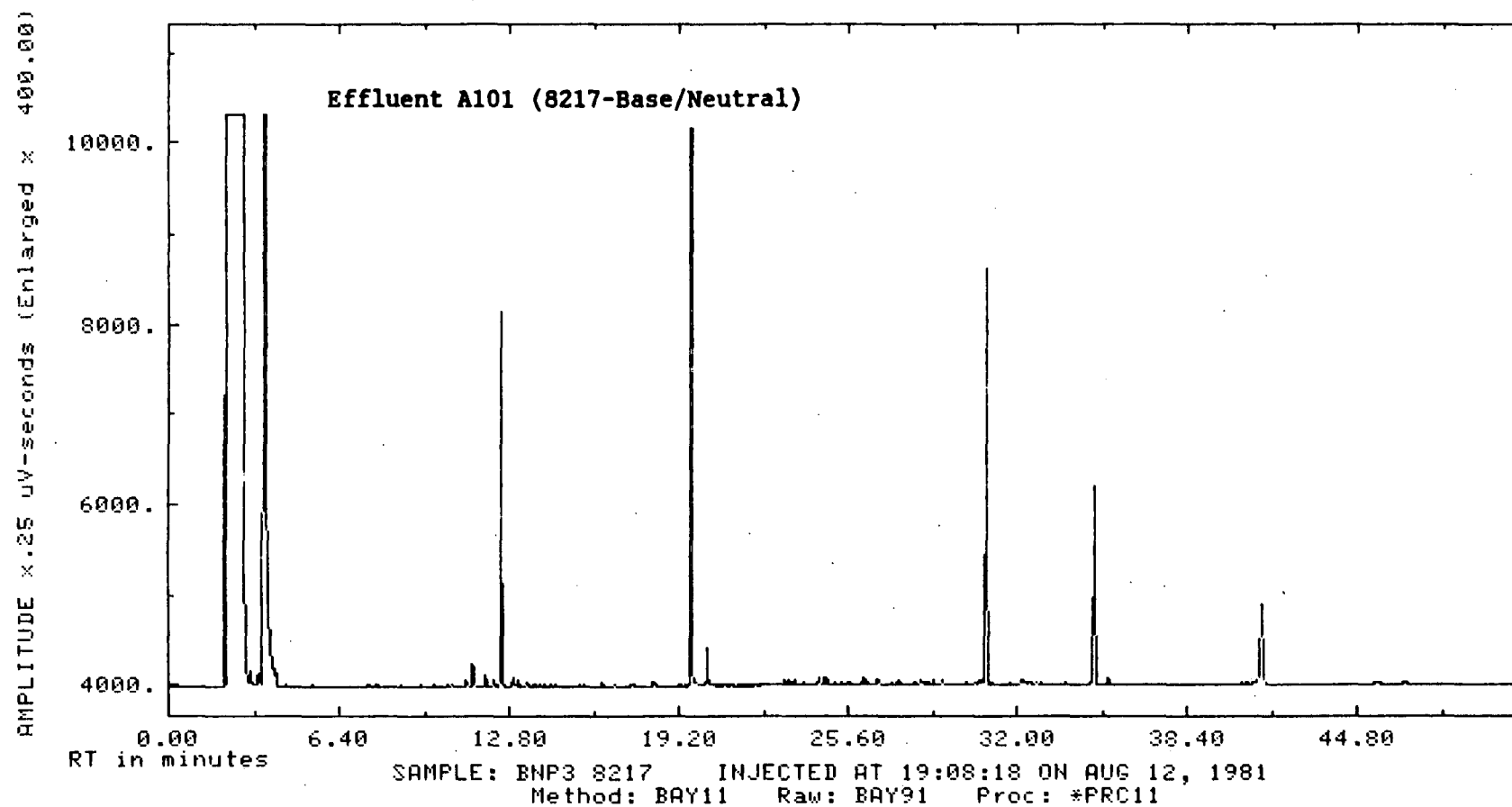


Figure F-30. FID/GC chromatogram of relative retention indices for components in the extractable organics base/neutral fraction from effluent A101.

TABLE F-31. RELATIVE RETENTION INDICES FOR COMPONENTS
IN THE EXTRACTABLE ORGANICS ACID FRACTION
FROM EFFLUENT B111D, FID/GC

PROCESSED FILE: DUCK Effluent B111D (8207-Acid)
RAW FILE: BAY31

SAMPLE NAME: ANP3 8207

RELATIVE RETENTION VALUES

OUTPUT FILE: OPF2

PEAK#	AREA	TIME	INDEX
1	11198	2.09785	***
2	6.00141E+07	2.19792	***
3	12065.5	3.48844	***
4	148360.	3.54958	***
5	1305.37	7.64305	***
6	19945.1	10.9033	***
7	1012.5	19.0379	***
8	1190.56	29.6057	279.201
9	1203	29.7979	283.434
10	136088.	33.3508	369.155
11	1422.37	34.4583	396.502
12	1103.59	34.6965	401.59
13	3098.39	34.8356	403.881
14	26000.	35.0255	407.009
15	1596.3	35.305	411.614
16	2916.55	35.3516	412.382
17	12453.8	35.5043	414.898
18	1667.06	35.6715	417.653
19	5954.67	36.0375	423.682
20	13357.4	36.2446	427.094
21	3774.2	36.3776	429.285

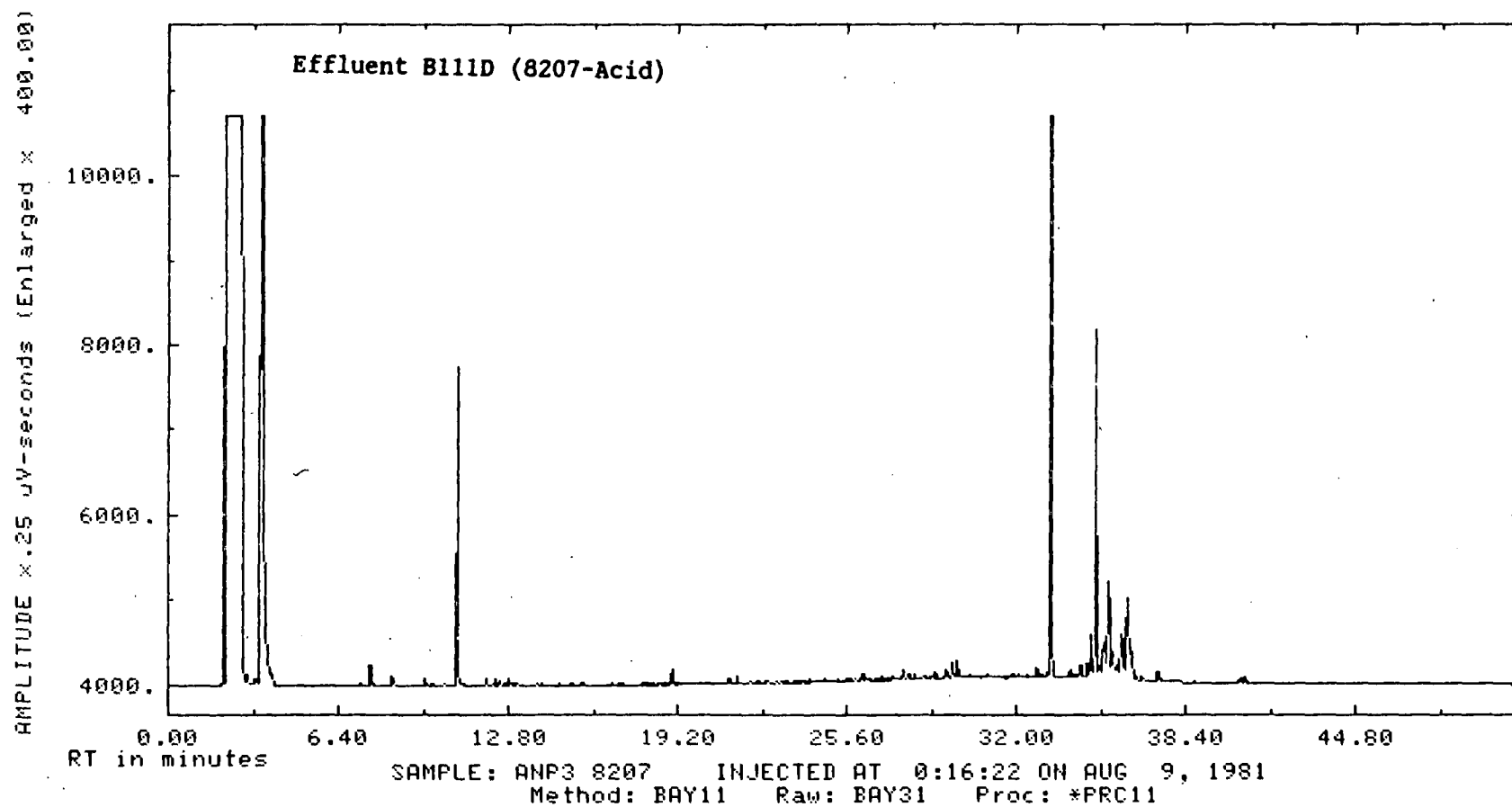


Figure F-31. FID/GC chromatogram of relative retention indices for components in the extractable organics acid fraction from effluent B111D.

TABLE F-32. RELATIVE RETENTION INDICES FOR COMPONENTS
IN THE EXTRACTABLE ORGANICS BASE/NEUTRAL
FRACTION FROM EFFLUENT B111D, FID/GC

PROCESSED FILE: DUCK Effluent B111D (8207-Base/Neutral)
RAW FILE: BAY73
 BNP3 8207
SAMPLE NAME: HC STD 100

RELATIVE RETENTION VALUES

OUTPUT FILE: OPF2

PEAK#	AREA	TIME	INDEX
1	4108.56	2.10977	***
2	79892.3	2.16442	***
3	5.37905E+07	2.21458	***
4	102807.	3.55685	***
5	13476.7	12.2379	***
6	4956.75	18.8262	***
7	29200	19.3688	***
8	2050.2	21.2045	126.552
9	1628.72	26.1986	203.706
10	2258.37	27.8247	239.445
11	1167.62	28.0503	244.402
12	28059.5	30.492	298.066
13	13796.6	34.5254	397.417
14	2442.75	40.5531	497.26

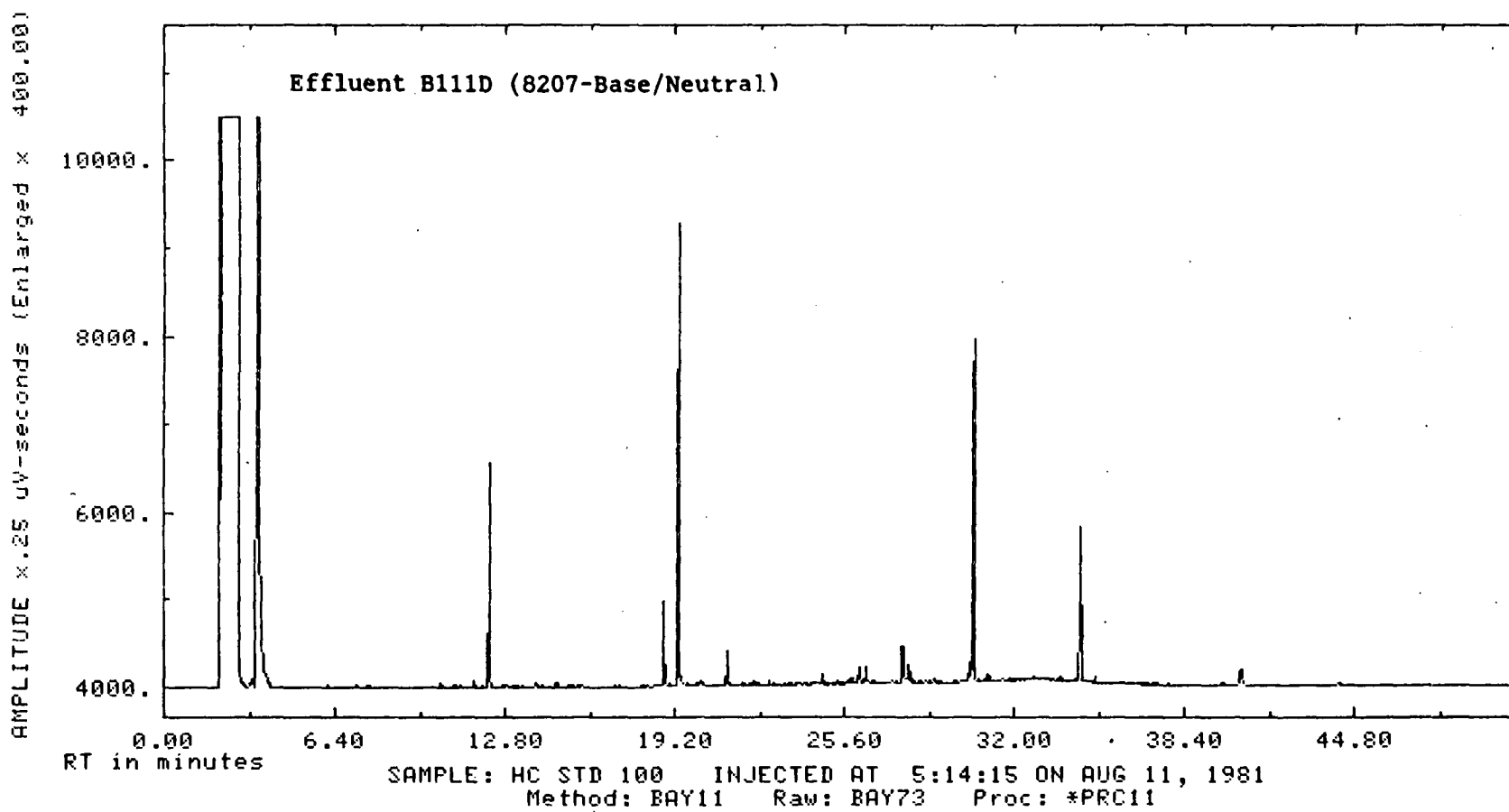


Figure F-32. FID/GC chromatogram of relative retention indices for components in the extractable organics base/neutral fraction from effluent B111D.

TABLE F-33. RELATIVE RETENTION INDICES FOR COMPONENTS
IN THE EXTRACTABLE ORGANICS ACID FRACTION
FROM EFFLUENT B113D, FID/GC

Effluent B113D (8204-Acid)

SORRY, PRINTER BUSY OR DOWN ANP3 8204 BAY26

RELATIVE RETENTION VALUES

OUTPUT FILE: OPF2

PEAK#	AREA	TIME	INDEX
1	6090.91	2.10658	***
2	46274.8	2.18682	***
3	5.65916E+07	2.20625	***
4	4383.39	3.49375	***
5	63351.1	3.55693	***
6	3036.5	7.64646	***
7	16804.4	10.8978	***
8	1109.62	11.9911	***
9	3683.75	32.5884	350.331

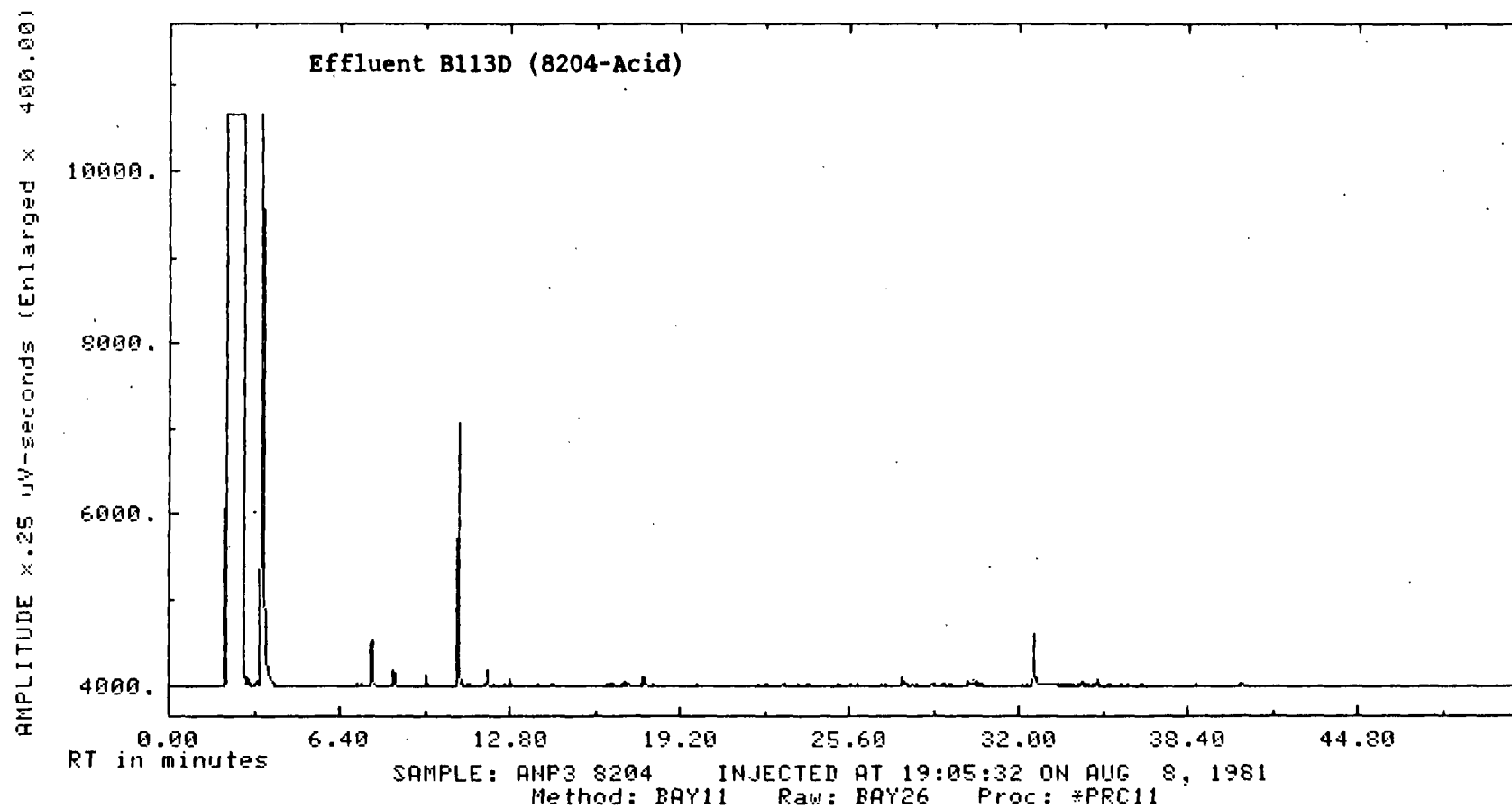


Figure F-33. FID/GC chromatogram of relative retention indices for components in the extractable organics acid fraction from effluent B113D.

TABLE F-34. RELATIVE RETENTION INDICES FOR COMPONENTS
IN THE EXTRACTABLE ORGANICS BASE/NEUTRAL
FRACTION FROM EFFLUENT B113D, FID/GC

PROCESSED FILE: DUCK Effluent B113D (8204-Base/Neutral)
RAW FILE: BAY70
SAMPLE NAME: BNP3 8204

RELATIVE RETENTION VALUES

OUTPUT FILE: OPF2

PEAK#	AREA	TIME	INDEX
1	5809.96	2.10632	***
2	103445.	2.16754	***
3	5.58039E+07	2.21042	***
4	5281.49	3.49196	***
5	104432.	3.55653	***
6	20300.7	12.2402	***
7	1016.75	17.8177	***
8	41610.6	19.3733	***
9	1649.84	23.1421	156.044
10	1882.62	26.9292	219.762
11	1599.34	29.2792	271.41
12	3183.84	29.3664	273.328
13	5393.44	30.0521	288.397
14	1639.84	30.3536	295.025
15	39348.9	30.4998	298.238
16	16957.4	30.6992	302.944
17	2138.75	34.001	384.47
18	20123.8	34.5235	397.37
19	3063.37	35.0608	407.074
20	4400.5	40.5458	497.14

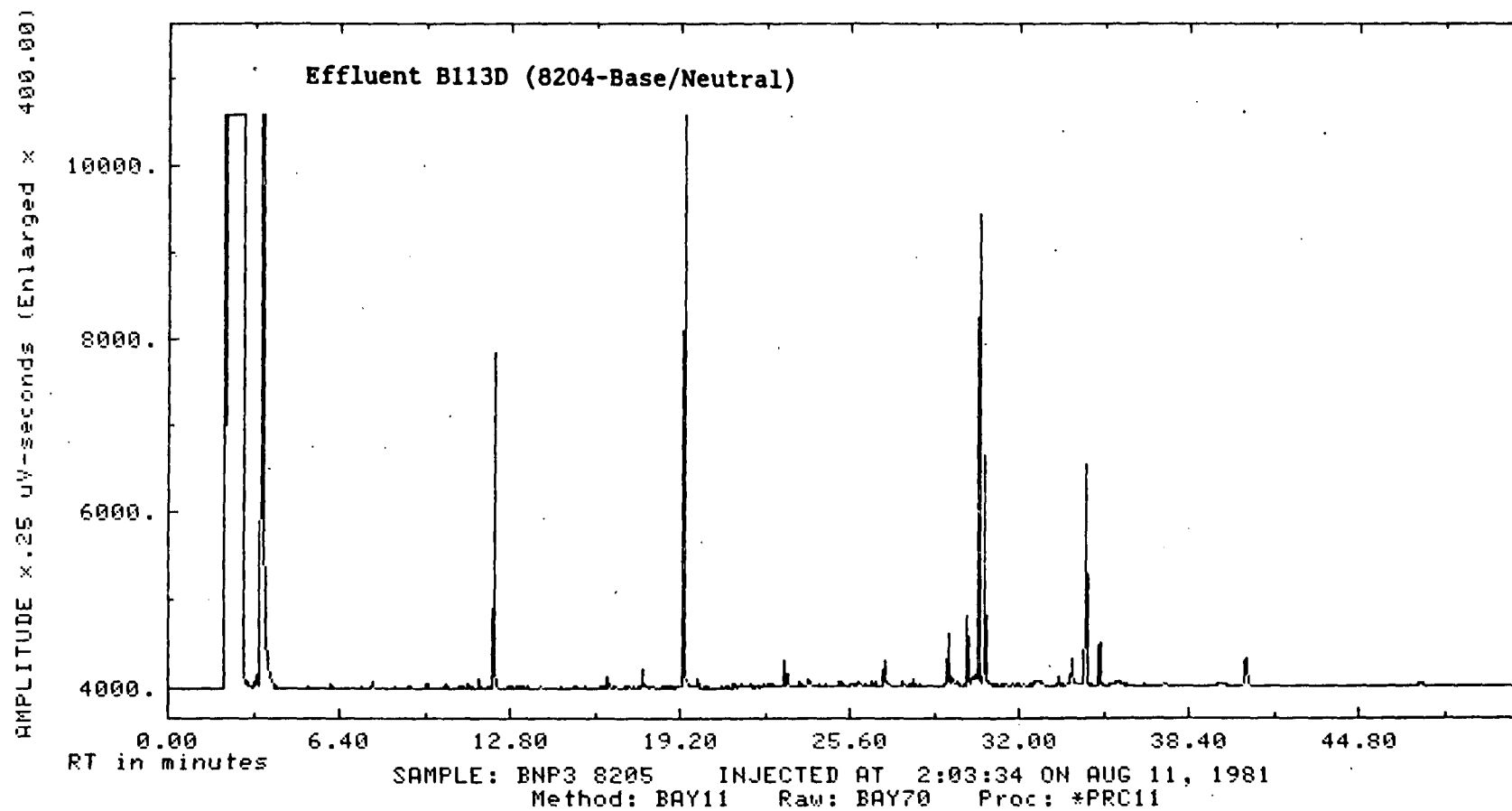


Figure F-34. FID/GC chromatogram of relative retention indices for components in the extractable organics base/neutral fraction from effluent B113D.

TABLE F-35. RELATIVE RETENTION INDICES FOR COMPONENTS
IN THE EXTRACTABLE ORGANICS ACID FRACTION
FROM EFFLUENT B124D, FID/GC

PROCESSED FILE: DUCK Effluent B124D (8206-Acid)
RAW FILE: BAY28

SAMPLE NAME: ANP3 8206

RELATIVE RETENTION VALUES

OUTPUT FILE: OPF2

PEAK#	AREA	TIME	INDEX
1	5088.42	2.10588	***
2	94931.6	2.1807	***
3	5.69077E+07	2.20625	***
4	7246.86	3.48942	***
5	122657.	3.55279	***
6	3119.5	7.64427	***
7	2095.25	8.45479	***
8	19754.2	10.9068	***
9	4947.75	12.0005	***
10	1300.75	12.3578	***
11	3122.28	12.8445	***
12	1046.87	14.4427	***
13	1787.94	34.9944	406.498

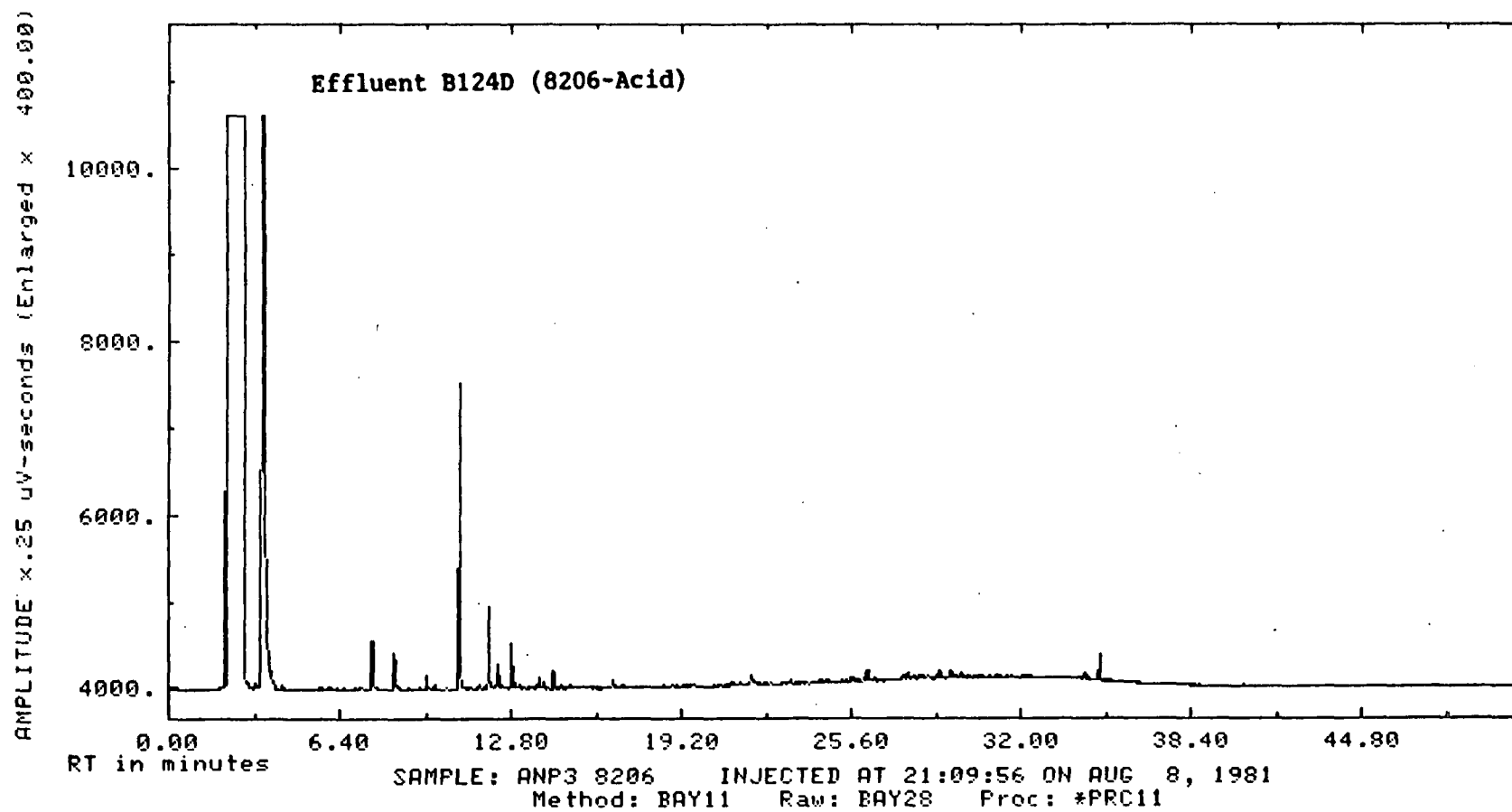


Figure F-35. FID/GC chromatogram of relative retention indices for components in the extractable organics acid fraction from effluent B124D.

TABLE F-36. RELATIVE RETENTION INDICES FOR COMPONENTS
IN THE EXTRACTABLE ORGANICS BASE/NEUTRAL
FRACTION FROM EFFLUENT B124D, FID/GC

PROCESSED FILE: DUCK Effluent B124D (8206-Base/Neutral)
RAW FILE: BAY72
SAMPLE NAME: BNP3 8206

RELATIVE RETENTION VALUES

OUTPUT FILE: OPF2

PEAK#	AREA	TIME	INDEX
1	5341.33	2.10816	***
2	98569.8	2.16867	***
3	5.43091E+07	2.2125	***
4	6235.7	3.49088	***
5	116794.	3.55766	***
6	16521.	12.2378	***
7	9530	18.827	***
8	33720.6	19.3722	***
9	2756.12	20.2097	111.411
10	1157.25	22.0715	139.749
11	1028.87	24.8076	181.395
12	30849.1	30.4939	298.108
13	1143.25	31.0347	311.228
14	15816	34.5205	397.297
15	1143.56	35.0587	407.04
16	2991	40.5594	497.362

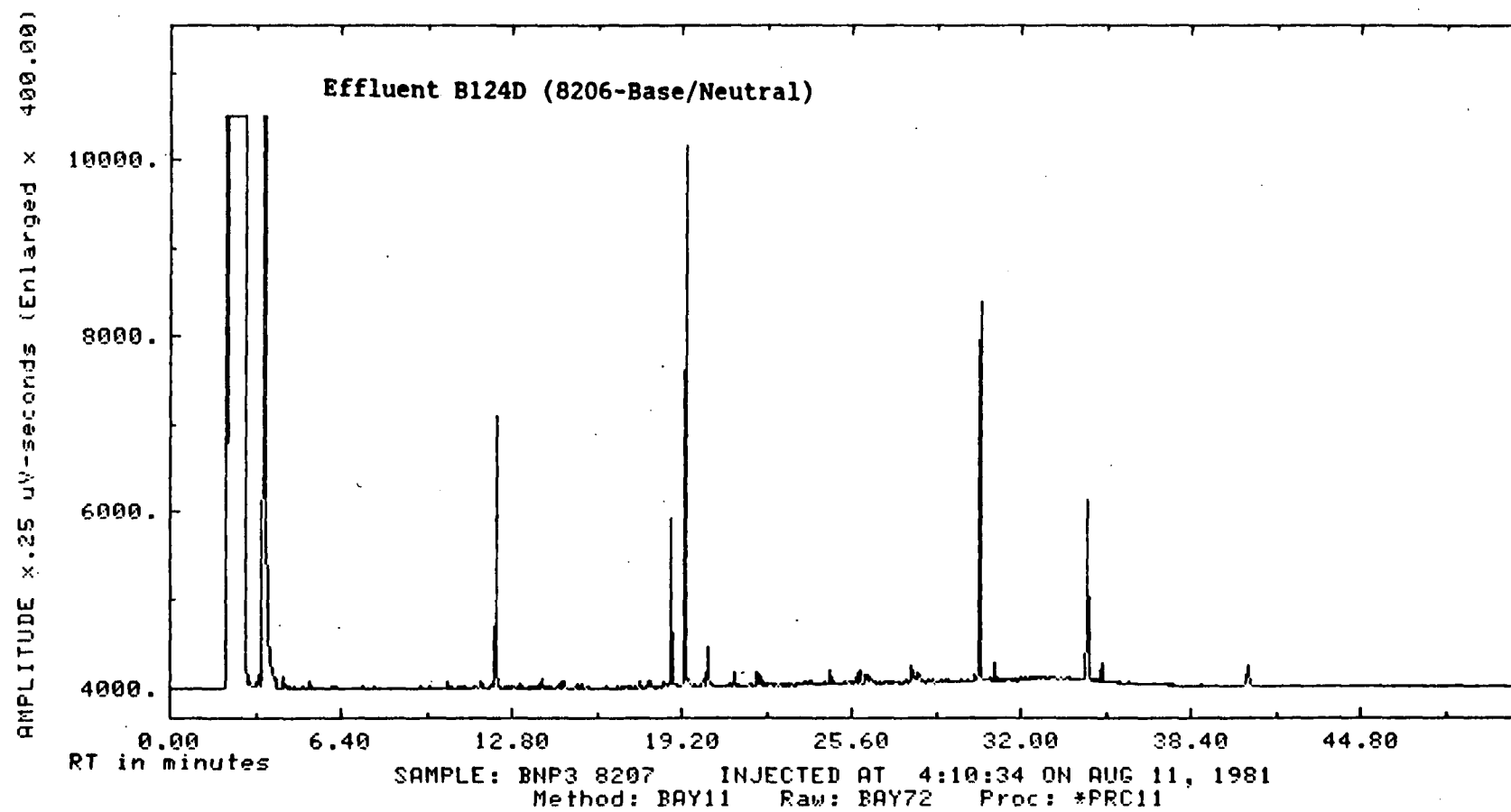


Figure F-36. FID/GC chromatogram of relative retention indices for components in the extractable organics base/neutral fraction from effluent B124D.

TABLE F-37. RELATIVE RETENTION INDICES FOR COMPONENTS
IN THE EXTRACTABLE ORGANICS ACID FRACTION
FROM EFFLUENT C151D, FID/GC

PROCESSED FILE: DUCK Effluent C151D (8209-Acid)
RAW FILE: BAY34

SAMPLE NAME: ANP3 8209

RELATIVE RETENTION VALUES

OUTPUT FILE: OFF2

PEAK#	AREA	TIME	INDEX
1	15123.6	2.09001	***
2	6.18457E+07	2.1875	***
3	12887.7	3.48403	***
4	115155.	3.54248	***
5	1087.62	7.63889	***
6	10610	10.8949	***
7	24605.3	33.296	367.802
8	7594.75	35.0057	406.684

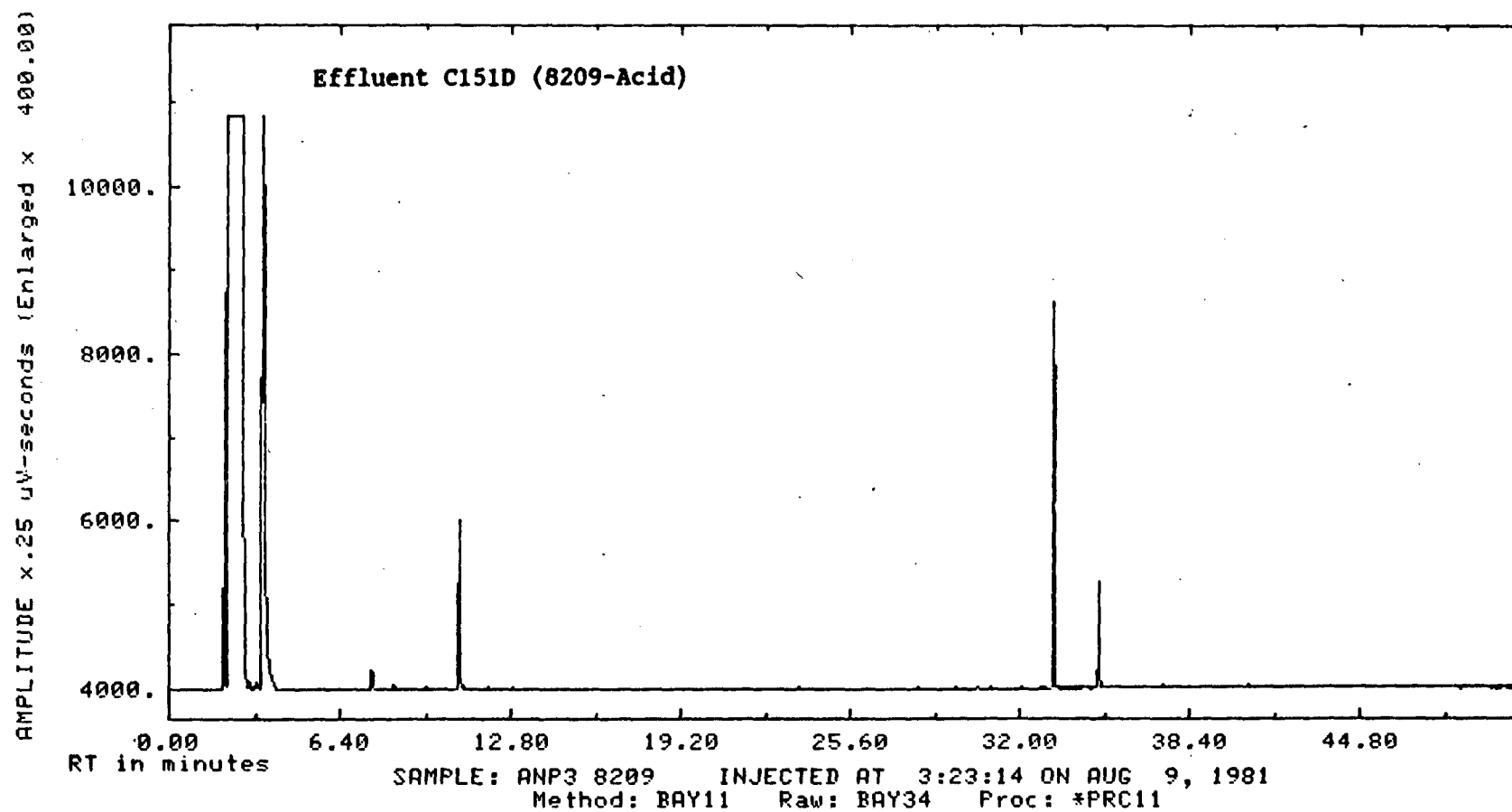


Figure F-37. FID/GC chromatogram of relative retention indices for components in the extractable organics acid fraction from effluent C151D.

TABLE F-38. RELATIVE RETENTION INDICES FOR COMPONENTS
IN THE EXTRACTABLE ORGANICS BASE/NEUTRAL
FRACTION FROM EFFLUENT C151D, FID/GC

PROCESSED FILE: *PRC11 Effluent C151D (8209-Base/Neutral)
RAW FILE: BAY77

SAMPLE NAME: BNF3 8209

RELATIVE RETENTION VALUES

OUTPUT FILE: OPF1

PEAK#	AREA	TIME	INDEX
1	5253.93	2.11872	***
2	101686.	2.1853	***
3	5.50926E+07	2.22083	***
4	8143.18	3.51162	***
5	139417.	3.57834	***
6	10899.	12.2467	***
7	19029.7	19.3698	***
8	22878.6	30.4875	298.184
9	28142.6	33.3491	368.619
10	10572.4	34.5162	397.437
11	8852.25	35.065	407.296
12	1853.12	40.5635	497.435

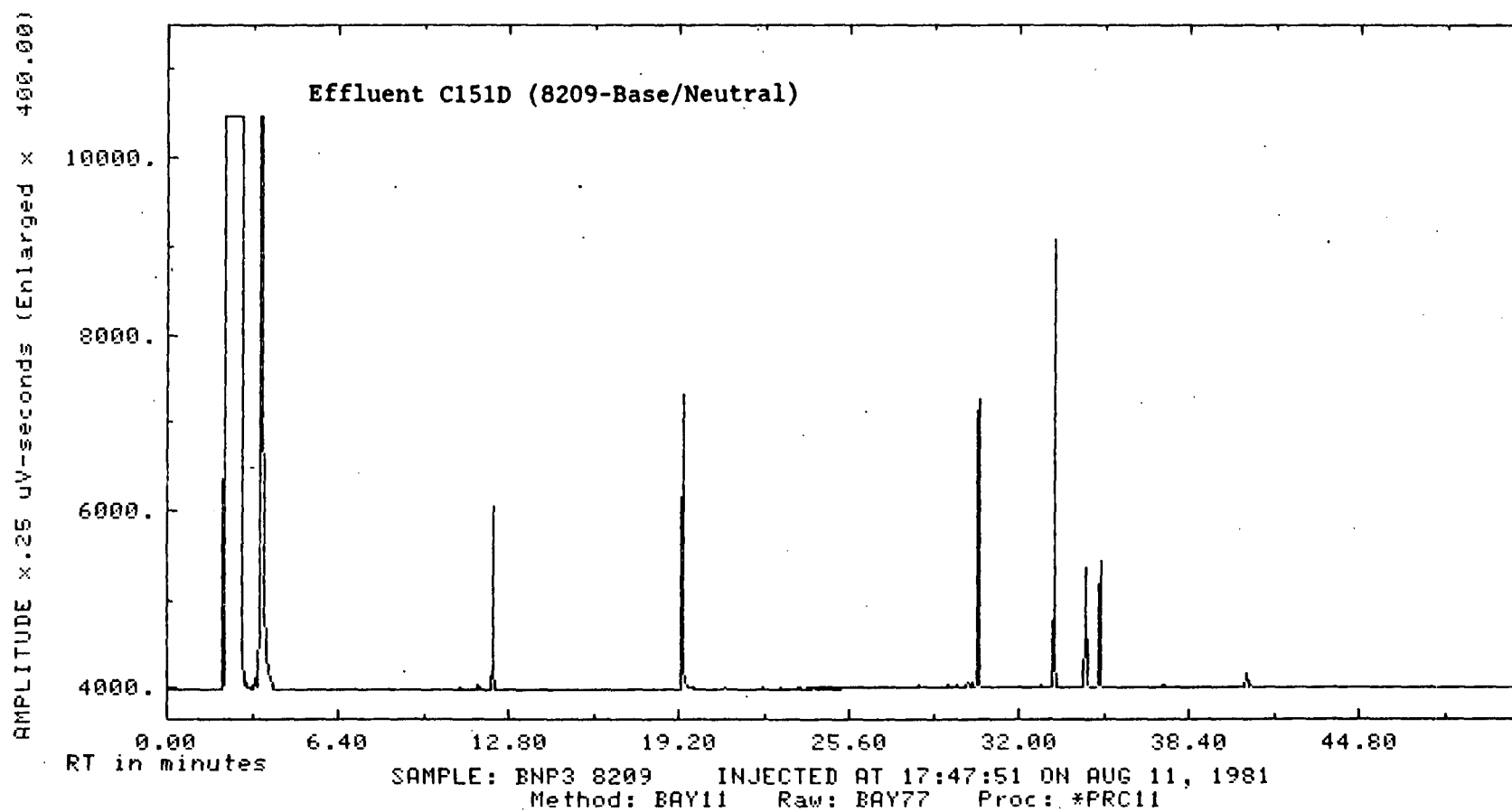


Figure F-38. FID/GC chromatogram of relative retention indices for components in the extractable organics base/neutral fraction from effluent C151D.

TABLE F-39. RELATIVE RETENTION INDICES FOR COMPONENTS
IN THE EXTRACTABLE ORGANICS ACID FRACTION
FROM EFFLUENT C153D, FID/GC

PROCESSED FILE: DUCK Effluent C153D (8225-Acid)
RAW FILE: BAY43

SAMPLE NAME: ANP3 8225

RELATIVE RETENTION VALUES

OUTPUT FILE: OPF2

PEAK#	AREA	TIME	INDEX
1	21674	2.08286	***
2	6.16924E+07	2.18333	***
3	1630.14	2.85155	***
4	1752	2.99258	***
5	15486.	3.47225	***
6	146779.	3.53244	***
7	3276.56	7.63	***
8	1227	8.4474	***
9	21950.7	10.9121	***
10	2322.75	12.0044	***

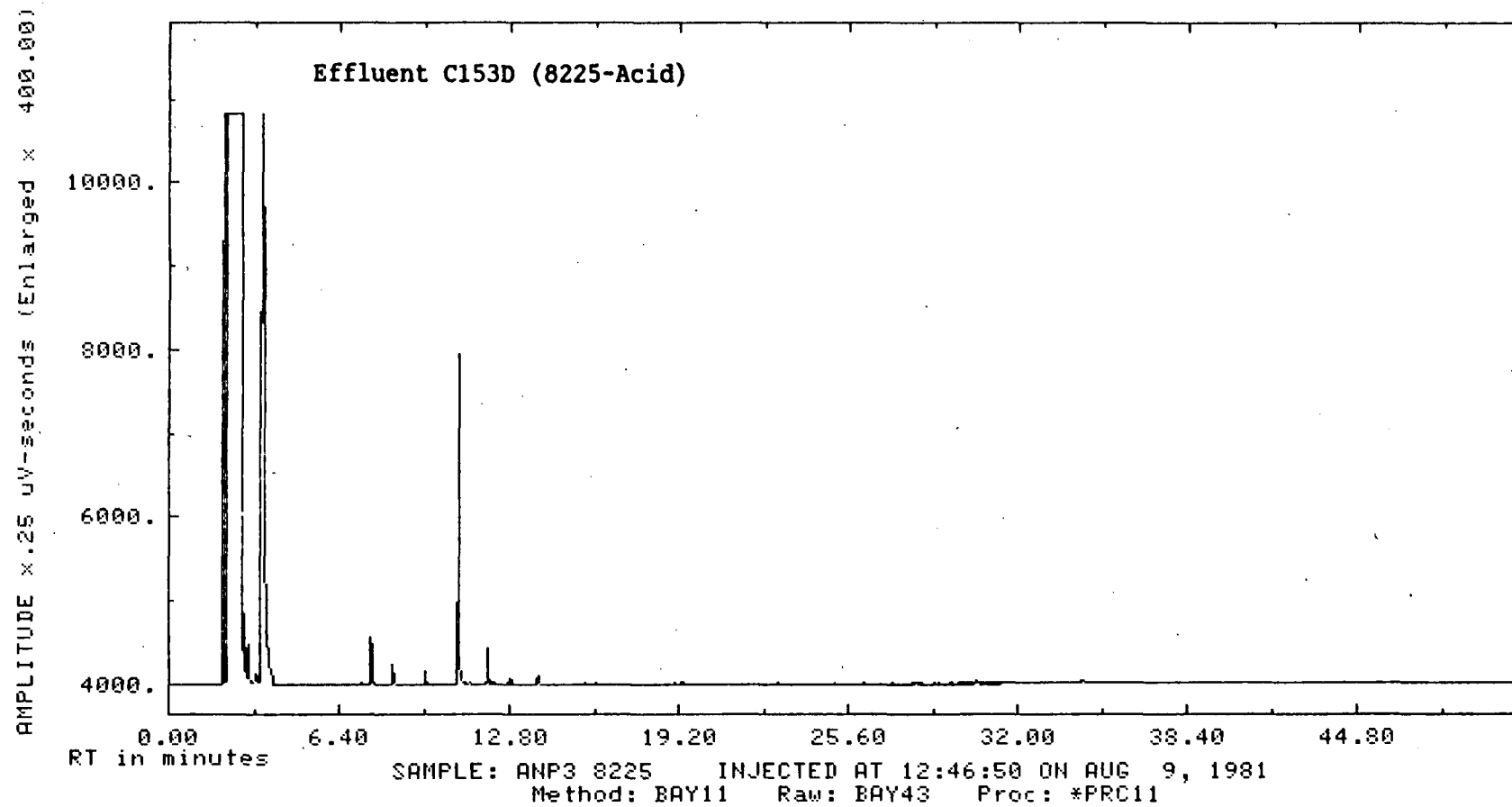


Figure F-39. FID/GC chromatogram of relative retention indices for components in the extractable organics acid fraction from effluent C153D.

TABLE F-40. RELATIVE RETENTION INDICES FOR COMPONENTS
IN THE EXTRACTABLE ORGANICS BASE/NEUTRAL
FRACTION FROM EFFLUENT C153D, FID/GC

PROCESSED FILE: *PRC11 Effluent C153D (8225-Base/Neutral)
RAW FILE: BAY94

SAMPLE NAME: BNF3 8225

RELATIVE RETENTION VALUES

OUTPUT FILE: OPF1

PEAK#	AREA	TIME	INDEX
1	12621.4	2.16317	***
2	5.75303E+07	2.26875	***
3	1110.19	3.11875	***
4	1138.25	3.45104	***
5	10712.2	3.61577	***
6	130574.	3.67989	***
7	1901.5	7.89583	***
8	22426	12.5226	***
9	36199.5	19.6868	***
10	33319.8	30.8645	298.344
11	12190.6	34.9333	397.161
12	4430.5	41.2578	496.997

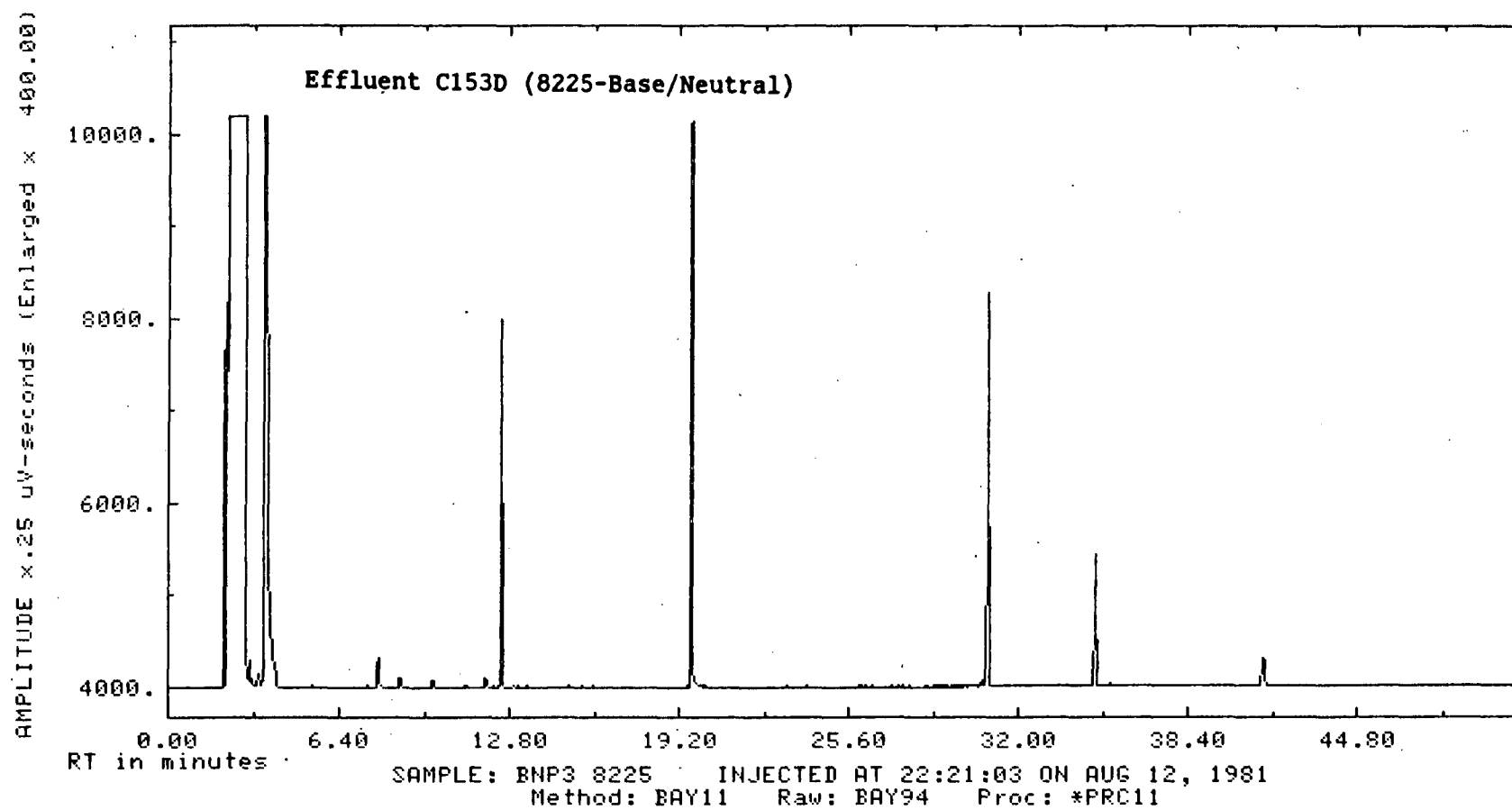


Figure F-40. FID/GC chromatogram of relative retention indices for components in the extractable organics base/neutral fraction from effluent C153D.

TABLE F-41. RELATIVE RETENTION INDICES FOR COMPONENTS
IN THE EXTRACTABLE ORGANICS ACID FRACTION
FROM EFFLUENT C154D, FID/GC

PROCESSED FILE: DUCK Effluent C154D (8240-Acid)
RAW FILE: BAY51

SAMPLE NAME: ANP3 8240

RELATIVE RETENTION VALUES

OUTPUT FILE: OPF2

PEAK#	AREA	TIME	INDEX
1	38384.4	2.08037	***
2	91894.2	2.17123	***
3	6.05743E+07	2.18333	***
4	2149.2	2.85152	***
5	1614.75	2.98893	***
6	13521.1	3.46664	***
7	157631.	3.53084	***
8	1077.25	7.22344	***
9	2413.44	7.63194	***
10	21762.5	10.924	***
11	1062.62	12.0154	***

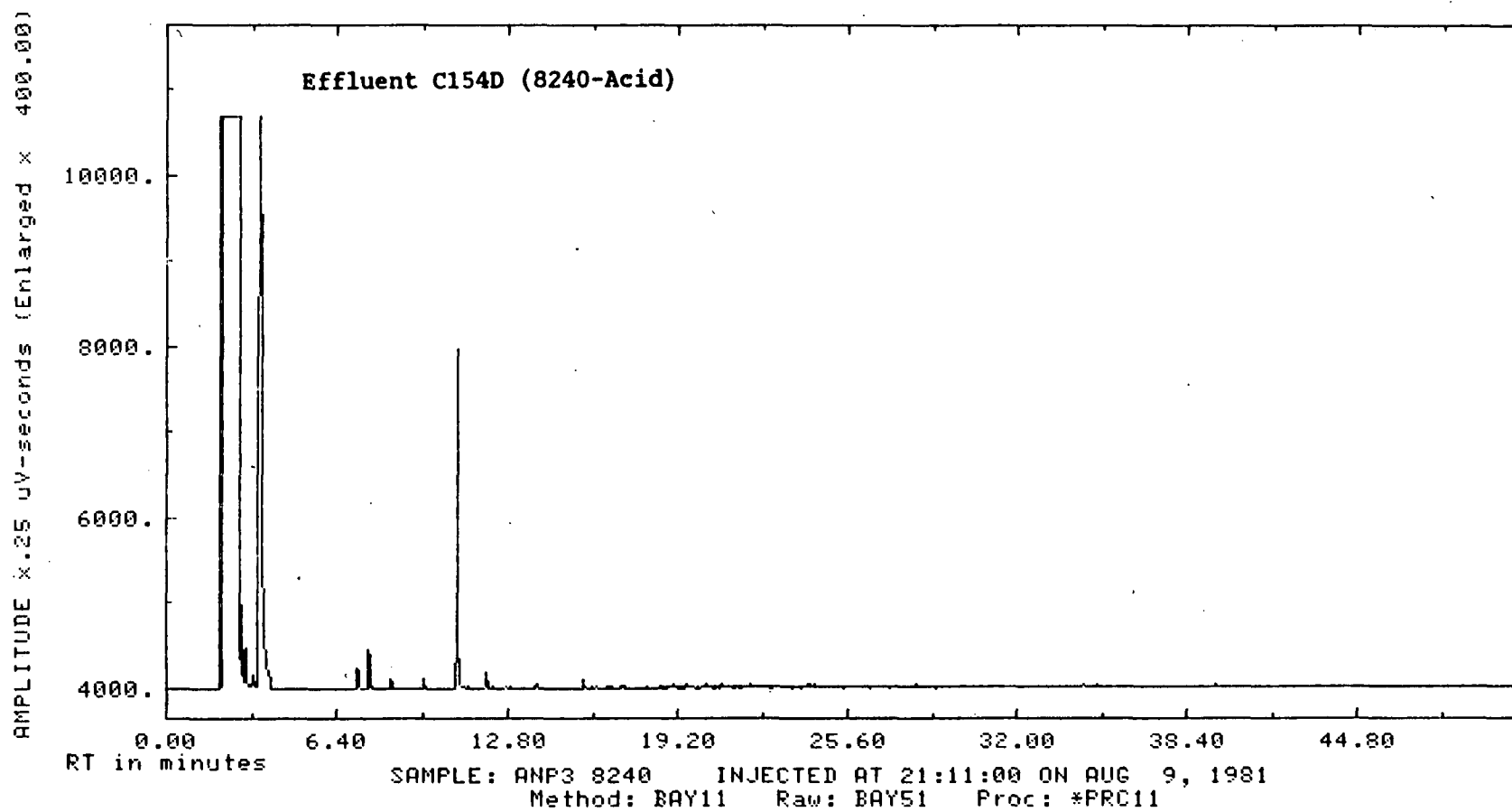


Figure F-41. FID/GC chromatogram of relative retention indices for components in the extractable organics acid fraction from effluent C154D.

TABLE F-42. RELATIVE RETENTION INDICES FOR COMPONENTS
IN THE EXTRACTABLE ORGANICS BASE/NEUTRAL
FRACTION FROM EFFLUENT C154D, FID/GC

PROCESSED FILE: *FRC11 Effluent C154D (8240-Base/Neutral)
RAW FILE: BAY103

SAMPLE NAME: BNP3 8240

RELATIVE RETENTION VALUES

OUTPUT FILE: OPF1

PEAK#	AREA	TIME	INDEX
1	25474.2	2.17554	***
2	180471.	2.25687	***
3	5.78843E+07	2.28542	***
4	1291.43	2.98216	***
5	1119.97	3.13636	***
6	2189.44	3.475	***
7	12145.7	3.63706	***
8	158354.	3.70369	***
9	1238.25	6.0475	***
10	1551.5	12.2667	***
11	25027.	12.5309	***
12	1001.56	15.0639	***
13	1956.31	15.25	***
14	1184	16.4135	***
15	1950.62	16.8121	***
16	1234	16.9719	***
17	2974.37	17.5622	***
18	1965.37	18.1516	***
19	1784.75	19.486	***
20	38625.1	19.6958	***
21	1153.5	20.9649	118.078
22	37792.1	30.8782	298.644
23	14570.7	34.9395	397.31
24	6772.5	41.2719	497.217

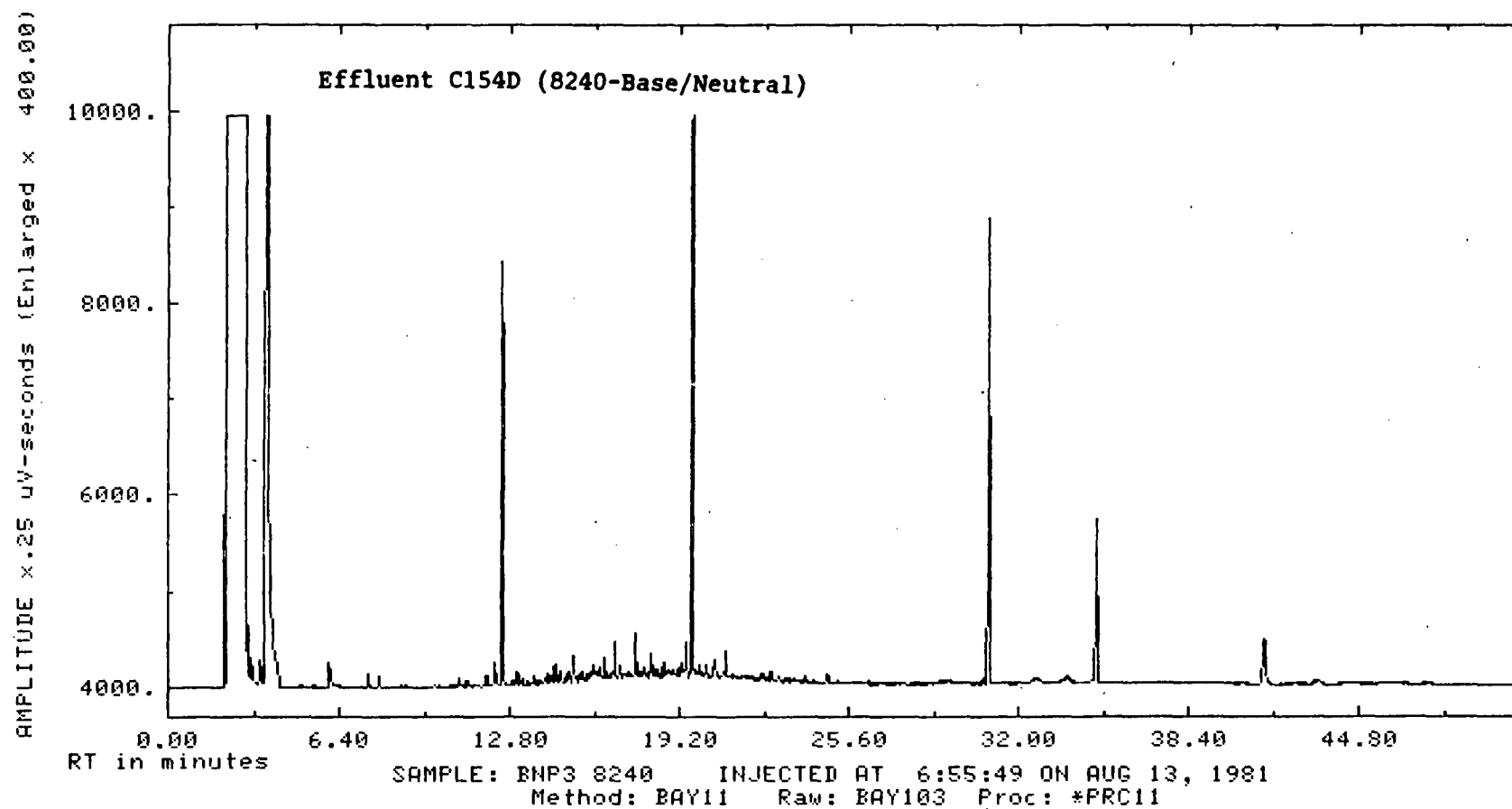


Figure F-42. FID/GC chromatogram of relative retention indices for components in the extractable organics base/neutral fraction from effluent C154D.

TABLE F-43. RELATIVE RETENTION INDICES FOR COMPONENTS
IN THE EXTRACTABLE ORGANICS ACID FRACTION
FROM EFFLUENT C158D, FID/GC

PROCESSED FILE: DUCK Effluent C158D (8210-Acid)
RAW FILE: BAY35

SAMPLE NAME: ANP3 8210

RELATIVE RETENTION VALUES

OUTPUT FILE: OFF2

PEAK#	AREA	TIME	INDEX
1	10542.7	2.09257	***
2	6.01550E+07	2.19167	***
3	7264.37	3.48105	***
4	88805.	3.54101	***
5	5543.87	7.63484	***
6	1979.37	8.44958	***
7	13687.1	10.9024	***
8	3124.25	11.9975	***
9	1852	12.8382	***
10	1228.25	14.4451	***
11	1008.25	22.24	142.618
12	2973.5	24.4642	176.472
13	1937.25	25.2542	188.496
14	1098.06	27.6531	236.192
15	3223.19	27.7785	238.954
16	2110.31	28.0021	243.879

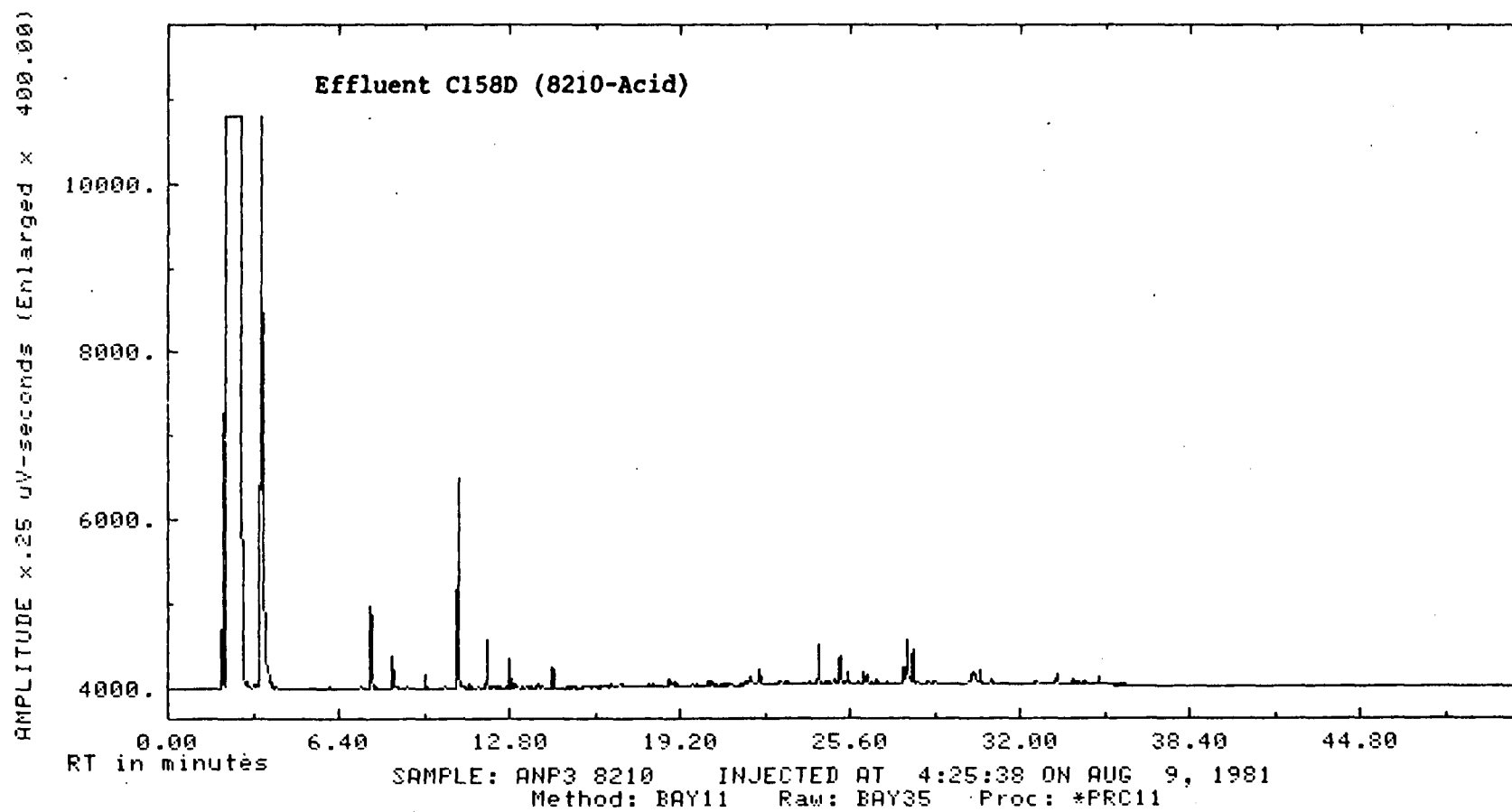


Figure F-43. FID/GC chromatogram of relative retention indices for components in the extractable organics acid fraction from effluent C158D.

TABLE F-44. RELATIVE RETENTION INDICES FOR COMPONENTS
IN THE EXTRACTABLE ORGANICS BASE/NEUTRAL
FRACTION FROM EFFLUENT C158D, FID/GC

PROCESSED FILE: *PRC11 Effluent C158D (8210-Base/Neutral)
RAW FILE: BAY78

SAMPLE NAME: BNP3 8210

RELATIVE RETENTION VALUES

OUTPUT FILE: OPF1

PEAK#	AREA	TIME	INDEX
1	2909.7	2.12467	***
2	50519.5	2.19218	***
3	5.56040E+07	2.225	***
4	4263.55	3.51901	***
5	75526.7	3.58441	***
6	16027.7	12.2475	***
7	29690.5	19.3728	***
8	1136.66	24.0246	169.476
9	1030.12	27.8104	239.216
10	1865.19	28.0321	244.099
11	1072.25	30.3021	294.099
12	36284.1	30.4983	298.42
13	19725	34.5198	397.526
14	1911.87	35.0535	407.106
15	4365.81	40.5458	497.145

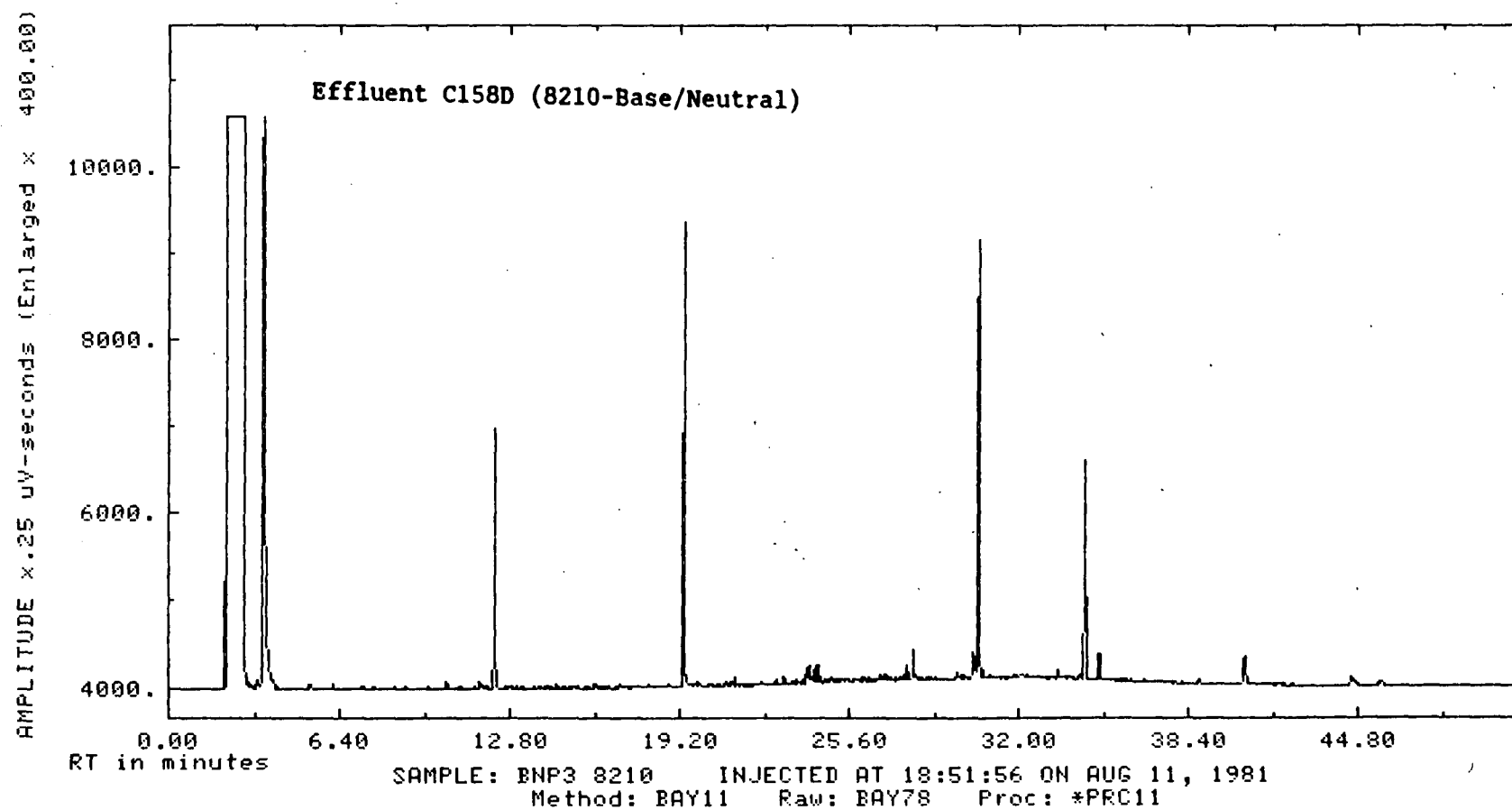


Figure F-44. FID/GC chromatogram of relative retention indices for components in the extractable organics base/neutral fraction from effluent C158D.

TABLE F-45. RELATIVE RETENTION INDICES FOR COMPONENTS
IN THE EXTRACTABLE ORGANICS ACID FRACTION
FROM EFFLUENT C159D, FID/GC

PROCESSED FILE: DUCK Effluent C159D (8245-Acid)
RAW FILE: BAY52

SAMPLE NAME: ANF3 8245

RELATIVE RETENTION VALUES

OUTPUT FILE: OFF2

PEAK#	AREA	TIME	INDEX
1	17419.2	2.08278	***
2	6.24384E+07	2.18333	***
3	1880.93	2.85225	***
4	1808.62	2.98833	***
5	9900.4	3.4713	***
6	141284.	3.53073	***
7	20027.7	10.9383	***
8	1923.75	25.316	189.436
9	3557.08	26.2226	204.682
10	14216.5	27.8824	241.243
11	2962.22	28.0849	245.703
12	1484.12	30.3758	296.164

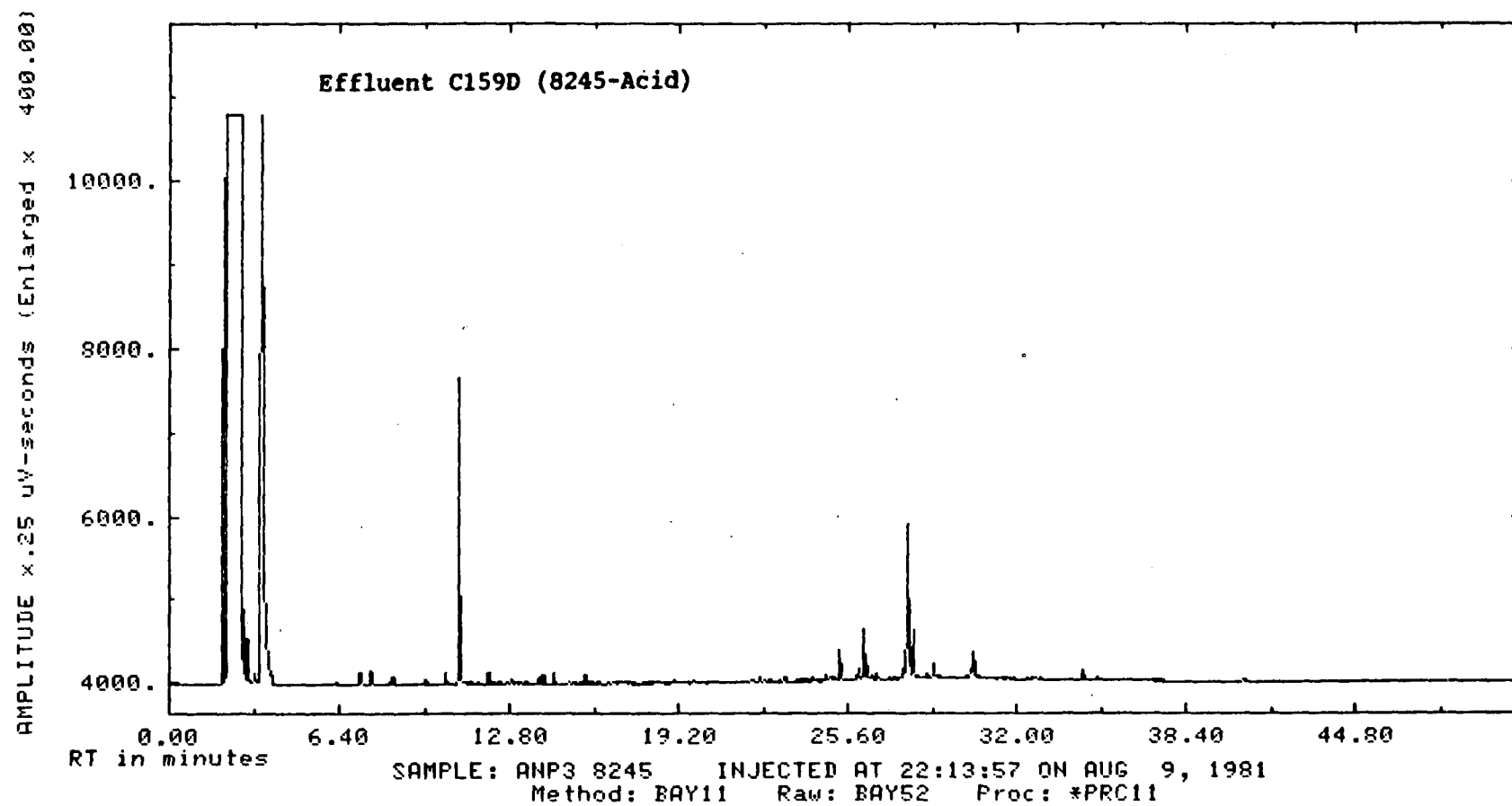


Figure F-45. FID/GC chromatogram of relative retention indices for components in the extractable organics acid fraction from effluent C159D.

TABLE F-46. RELATIVE RETENTION INDICES FOR COMPONENTS
IN THE EXTRACTABLE ORGANICS BASE/NEUTRAL
FRACTION FROM EFFLUENT C159D, FID/GC

PROCESSED FILE: *PRC11
RAW FILE: BAY104
SAMPLE NAME: BNP3 8245

Effluent C159D (8245-Base/Neutral)

RELATIVE RETENTION VALUES

OUTPUT FILE: OPF1

PEAK#	AREA	TIME	INDEX
1	18262.2	2.1725	***
2	193086.	2.25113	***
3	5.74097E+07	2.28125	***
4	1064.23	2.97564	***
5	1002.12	3.13065	***
6	2466.25	3.46875	***
7	9911.56	3.63165	***
8	145989.	3.69527	***
9	24766.1	12.5302	***
10	37704.4	19.6928	***
11	1349.45	28.1392	238.578
12	1665	28.363	243.487
13	32028.7	30.8698	298.461
14	17505.8	34.9426	397.388
15	12441.2	41.2854	497.428

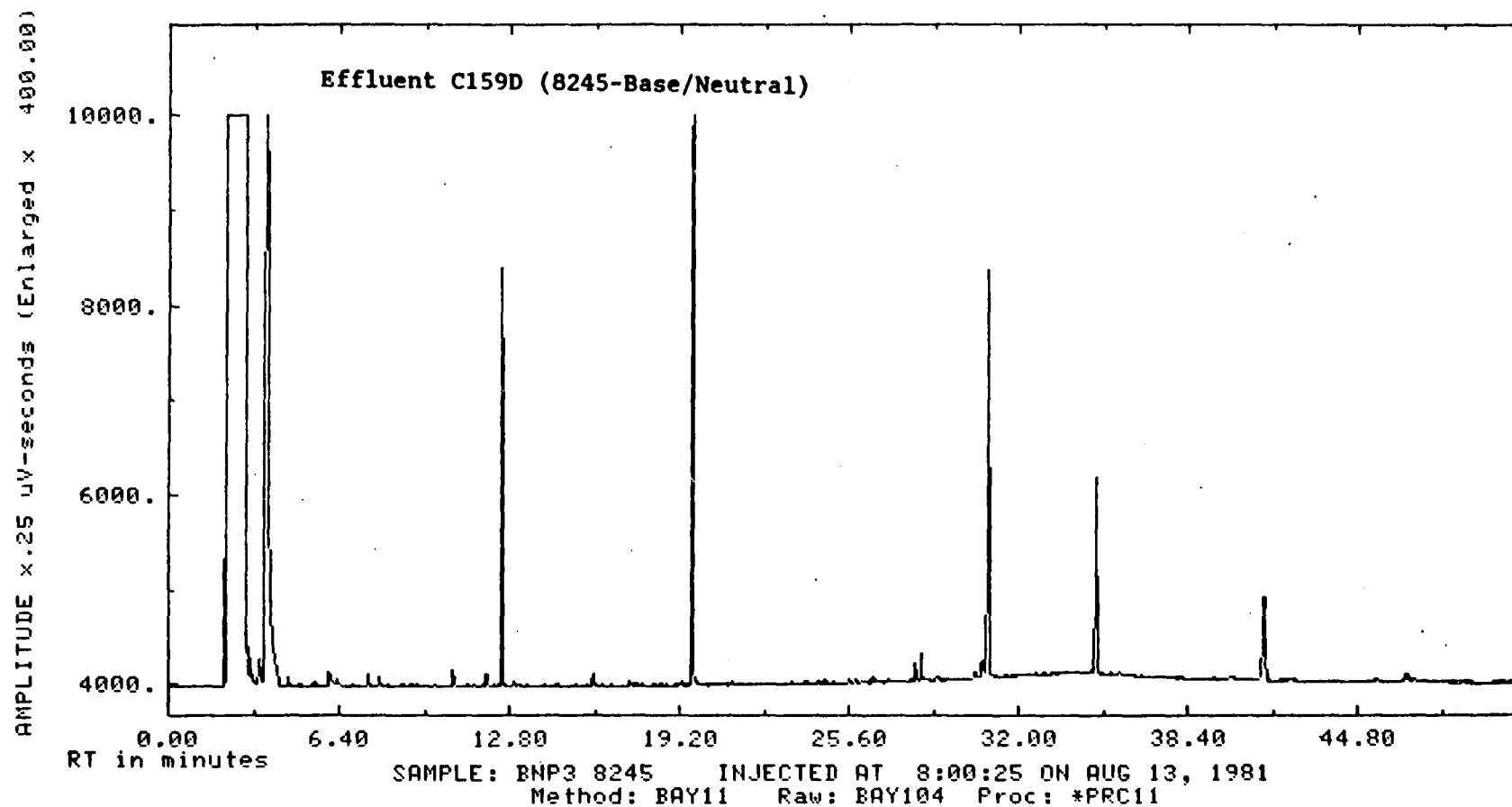


Figure F-46. FID/GC chromatogram of relative retention indices for components in the extractable organics base/neutral fraction from effluent C159D.

TABLE F-47. RELATIVE RETENTION INDICES FOR COMPONENTS
IN THE EXTRACTABLE ORGANICS ACID FRACTION
FROM EFFLUENT C160D, FID/GC

PROCESSED FILE: DUCK Effluent C160D (8218-Acid)
RAW FILE: BAY41

SAMPLE NAME: ANP3 8218

RELATIVE RETENTION VALUES

OUTPUT FILE: OPF2

PEAK#	AREA	TIME	INDEX
1	16785	2.08787	***
2	6.03224E+07	2.1875	***
3	1530.24	2.8546	***
4	1328.25	2.99777	***
5	13538.5	3.47487	***
6	139637.	3.5373	***
7	1612.81	7.63646	***
8	19833	10.9108	***

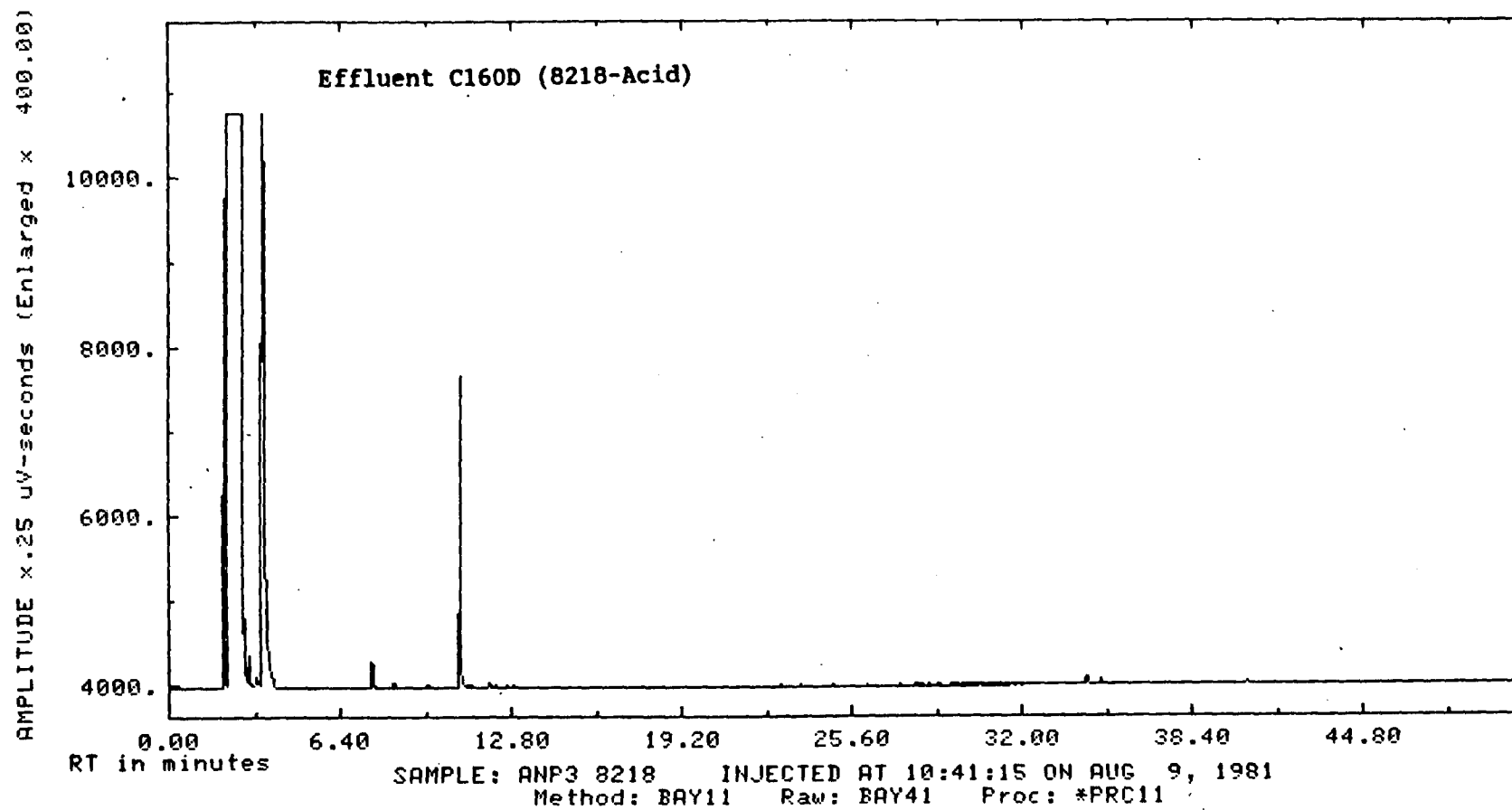


Figure F-47. FID/GC chromatogram of relative retention indices for components in the extractable organics acid fraction from effluent C160D.

TABLE F-48. RELATIVE RETENTION INDICES FOR COMPONENTS
IN THE EXTRACTABLE ORGANICS BASE/NEUTRAL
FRACTION FROM EFFLUENT C160D, FID/GC

PROCESSED FILE: *PRC11 Effluent C160D (8218-Base/Neutral)
RAW FILE: BAY92

SAMPLE NAME: BNF3 8218

RELATIVE RETENTION VALUES

OUTPUT FILE: OFF1

PEAK#	AREA	TIME	INDEX
1	9536.14	2.14312	***
2	88563.2	2.22718	***
3	5.63320E+07	2.24792	***
4	1100.75	3.4125	***
5	7236.95	3.57415	***
6	109182.	3.63658	***
7	22808.2	12.5099	***
8	37869.7	19.6832	***
9	33864.1	30.8652	298.361
10	14163.9	34.9321	397.132
11	4260.25	35.4567	406.354
12	9308.37	41.2715	497.211

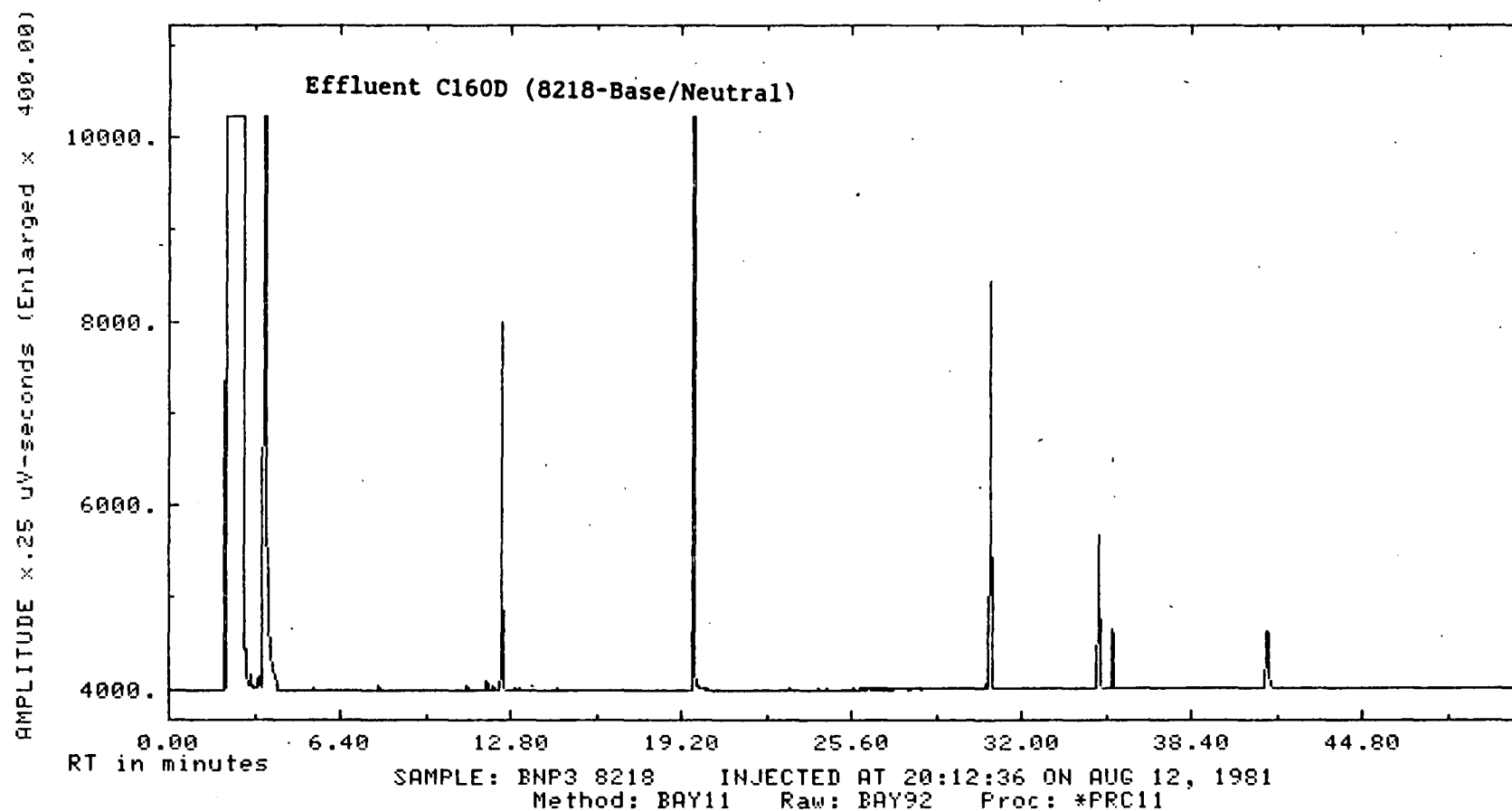


Figure F-48. FID/GC chromatogram of relative retention indices for components in the extractable organics base/neutral fraction from effluent C160D.

TABLE F-49. RELATIVE RETENTION INDICES FOR COMPONENTS
IN THE EXTRACTABLE ORGANICS ACID FRACTION
FROM EFFLUENT B126S, FID/GC

PROCESSED FILE: *PRC11 Effluent B126S (8191-Acid)
RAW FILE: RAY14
SAMPLE NAME: ANP3 8191

RELATIVE RETENTION VALUES

OUTPUT FILE: OPF1

PEAK#	AREA	TIME	INDEX
1	35452.	2.08949	***
2	36599.2	2.14925	***
3	5.93664E+07	2.19583	***
4	68477.1	3.55866	***
5	1221.62	7.67	***
6	13744.5	10.9301	***
7	1530.55	12.0292	***

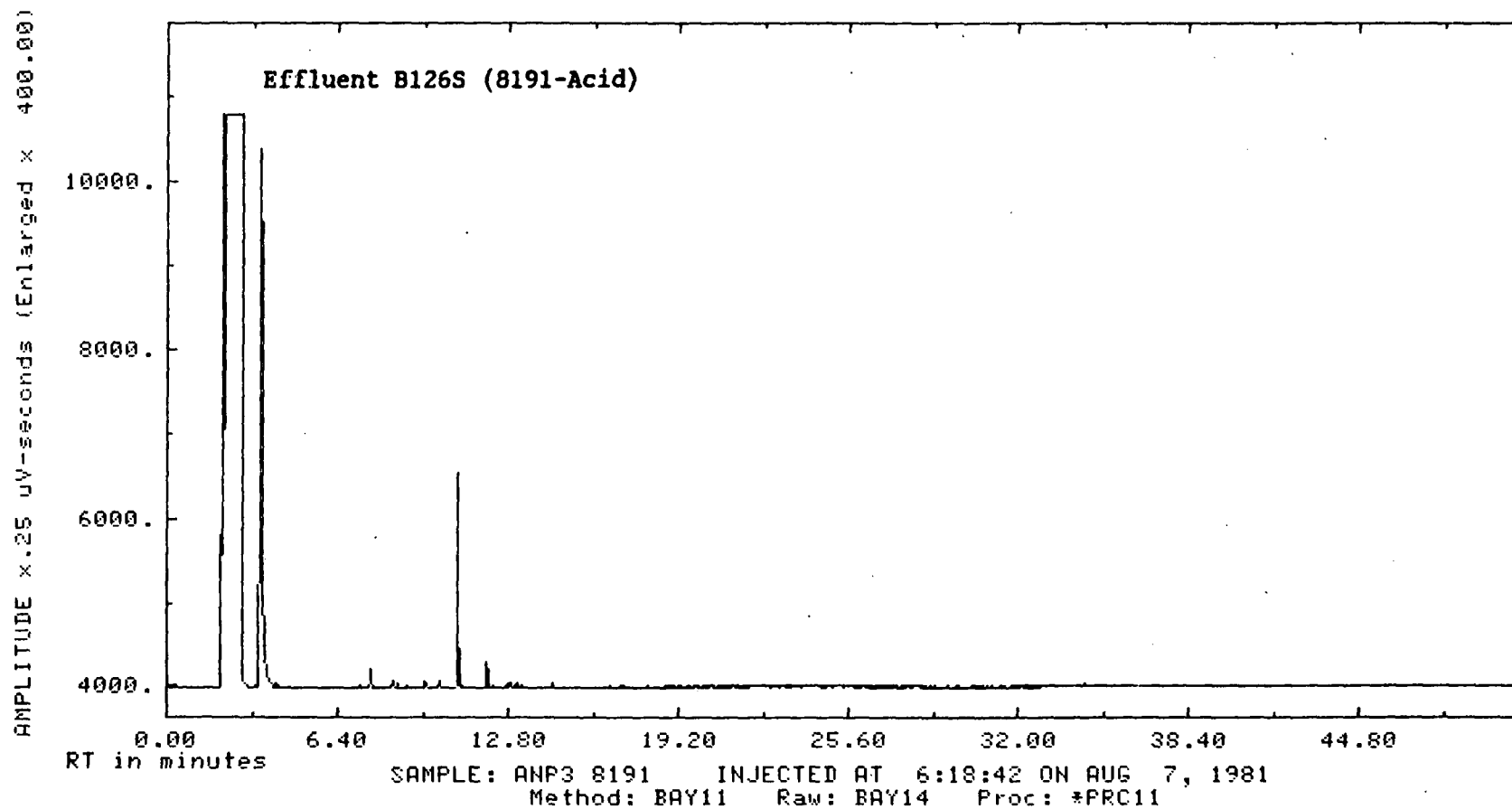


Figure F-49. FID/GC chromatogram of relative retention indices for components in the extractable organics acid fraction from effluent B126S.

TABLE F-50. RELATIVE RETENTION INDICES FOR COMPONENTS
IN THE EXTRACTABLE ORGANICS BASE/NEUTRAL
FRACTION FROM EFFLUENT B126S, FID/GC

PROCESSED FILE: DUCK Effluent B126S (8191-Base/Neutral)
RAW FILE: BAY65
 BNP3 8/9/
SAMPLE NAME: HC STD 20

RELATIVE RETENTION VALUES

OUTPUT FILE: OPF2

PEAK#	AREA	TIME	INDEX
1	6020.19	2.10513	***
2	98198.8	2.18202	***
3	6.03961E+07	2.20625	***
4	6693.88	3.4962	***
5	104611.	3.55722	***
6	81279.6	7.66124	***
7	3575.75	8.66154	***
8	22146.4	12.2433	***
9	4794.78	13.0081	***
10	1153.59	13.0889	***
11	3722.75	16.8688	***
12	4053.37	19.1096	***
13	40957.4	19.3789	***
14	42096.	30.5053	298.357
15	17745.7	34.5236	397.373
16	3093.09	40.559	497.357

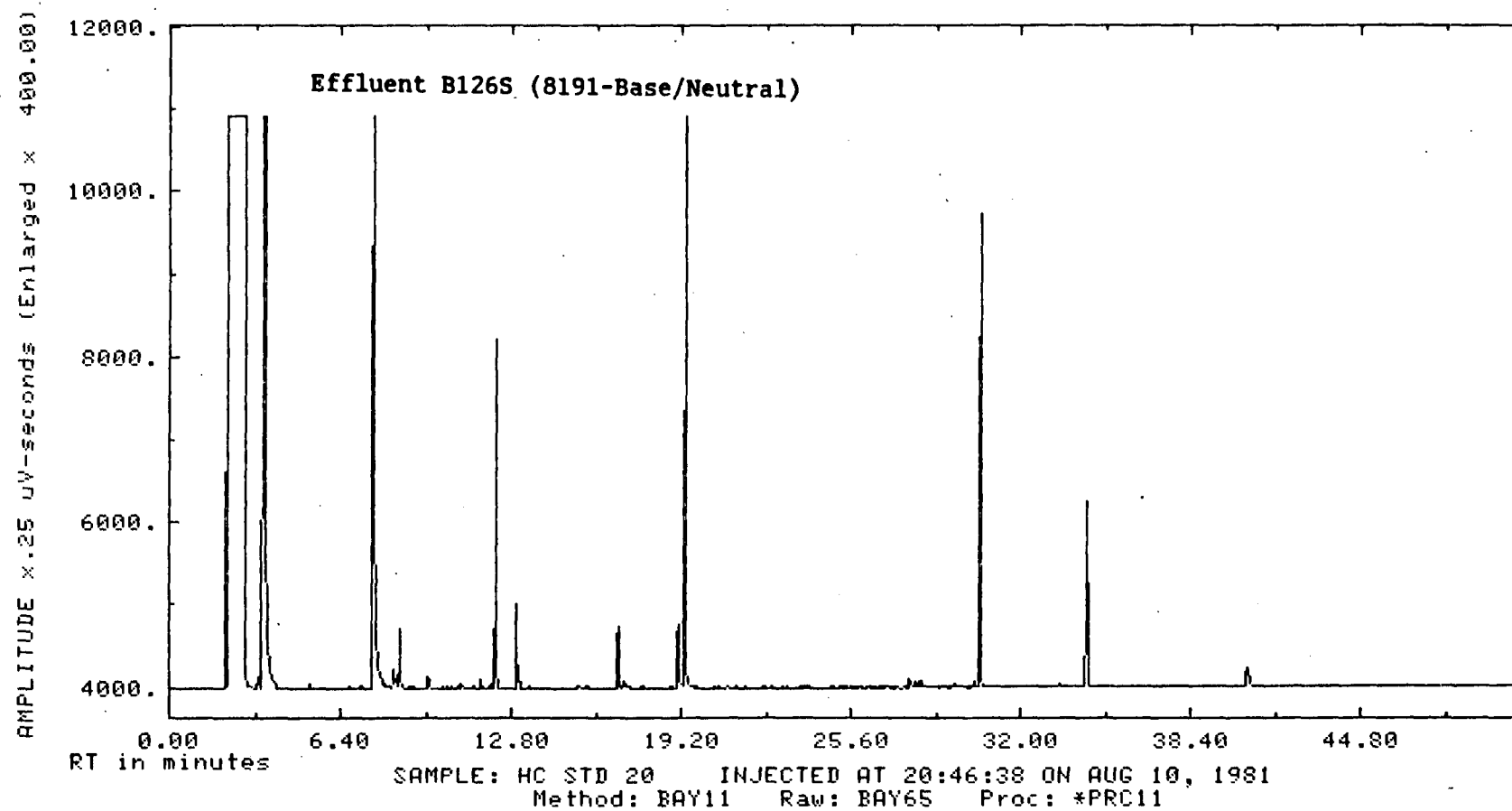


Figure F-50. FID/GC chromatogram of relative retention indices for components in the extractable organics base/neutral fraction from effluent B126S.

TABLE F-51. RELATIVE RETENTION INDICES FOR COMPONENTS
IN THE EXTRACTABLE ORGANICS ACID FRACTION
FROM EFFLUENT B143S, FID/GC

PROCESSED FILE: *PRC11 Effluent B143S (8188-Acid)
RAW FILE: BAY13

SAMPLE NAME: ANP3 8188

RELATIVE RETENTION VALUES

OUTPUT FILE: OPF1

PEAK#	AREA	TIME	INDEX
1	6939.77	2.10803	***
2	48125.4	2.13886	***
3	5.61495E+07	2.21875	***
4	123086.	3.56482	***
5	1065.37	7.67708	***
6	23288.6	10.9436	***
7	1068.62	15.259	***
8	12170.3	19.9653	107.843
9	13573.9	20.0924	109.777

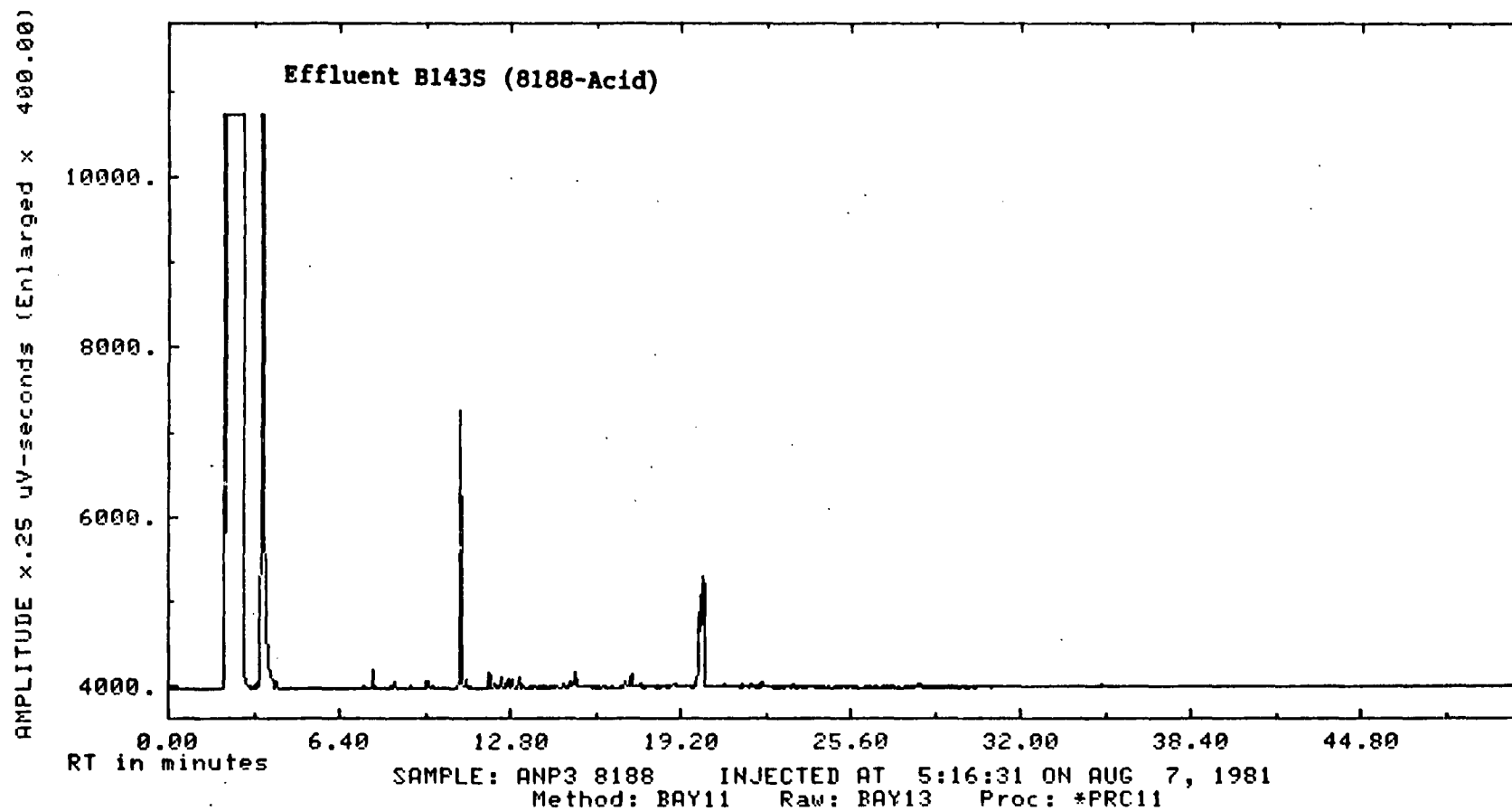


Figure F-51. FID/GC chromatogram of relative retention indices for components in the extractable organics acid fraction from effluent B143S.

TABLE F-52. RELATIVE RETENTION INDICES FOR COMPONENTS
IN THE EXTRACTABLE ORGANICS BASE/NEUTRAL
FRACTION FROM EFFLUENT B143S, FID/GC

PROCESSED FILE: DUCK Effluent B143S (8188-Base/Neutral)
RAW FILE: BAY64
SAMPLE NAME: BNF3 8191

RELATIVE RETENTION VALUES

OUTPUT FILE: OFF2

PEAK#	AREA	TIME	INDEX
1	2486.28	2.11057	***
2	48803.6	2.17412	***
3	5.74448E+07	2.21042	***
4	4564.98	3.34146	***
5	6168.97	3.49306	***
6	116016.	3.55855	***
7	2645.25	7.9875	***
8	19794.5	12.2449	***
9	42433.7	19.3793	***
10	4912	23.7397	165.141
11	34797.7	30.4989	298.218
12	1449.06	34.5177	397.227
13	3874.25	35.0645	407.134
14	3980.19	40.5615	497.397

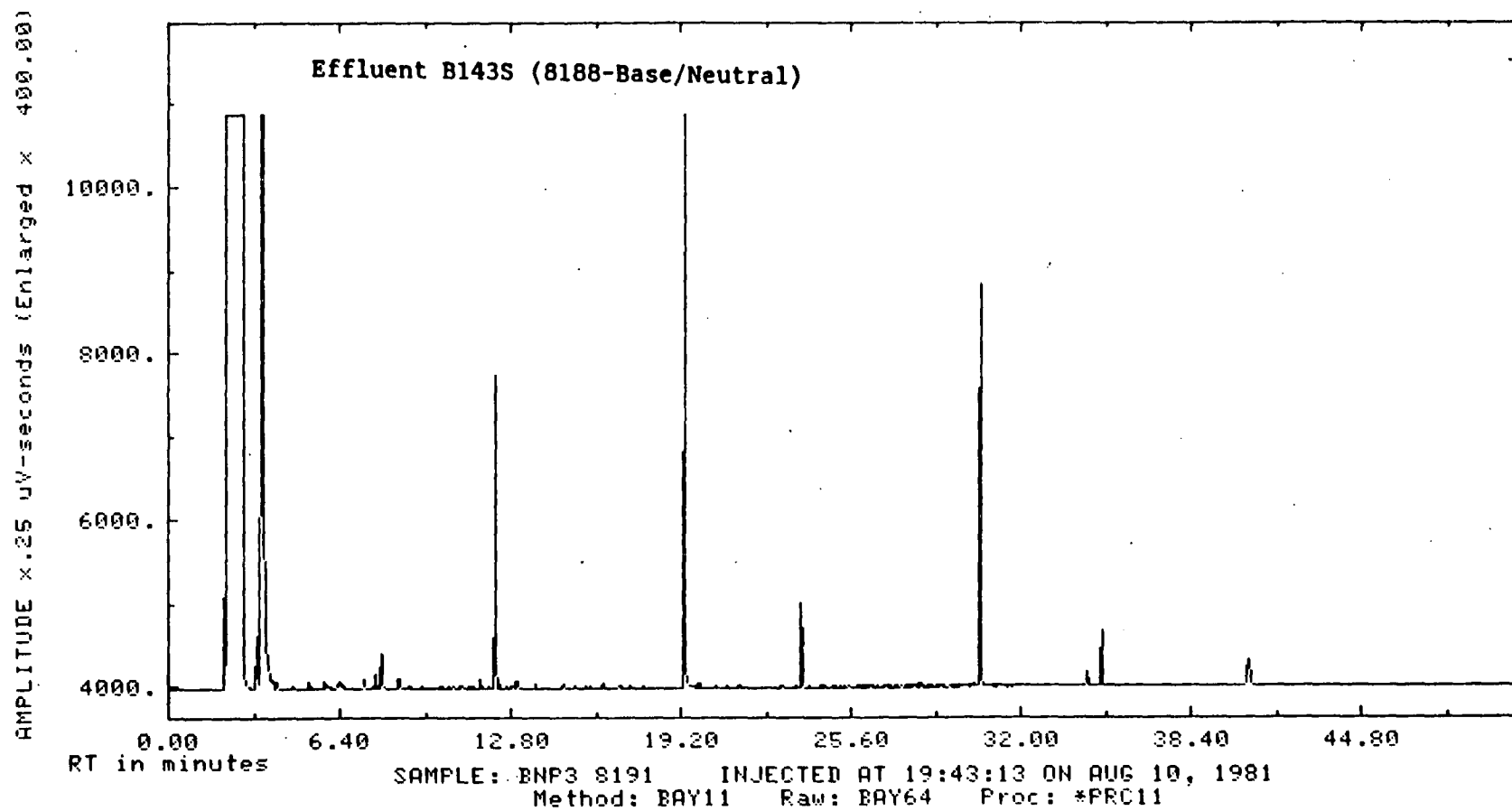


Figure F-52. FID/GC chromatogram of relative retention indices for components in the extractable organics base/neutral fraction from effluent B143S.

TABLE F-53. RELATIVE RETENTION INDICES FOR COMPONENTS
IN THE EXTRACTABLE ORGANICS ACID FRACTION
FROM EFFLUENT B147S, FID/GC

PROCESSED FILE: *PRC11 Effluent B147S (8192-Acid)
RAW FILE: BAY16

SAMPLE NAME: ANP3 8192

RELATIVE RETENTION VALUES

OUTPUT FILE: OPF1

PEAK#	AREA	TIME	INDEX
1	11855.7	2.10631	***
2	64713.3	2.14021	***
3	5.57071E+07	2.21667	***
4	96469.2	3.56072	***
5	13787.7	10.9287	***

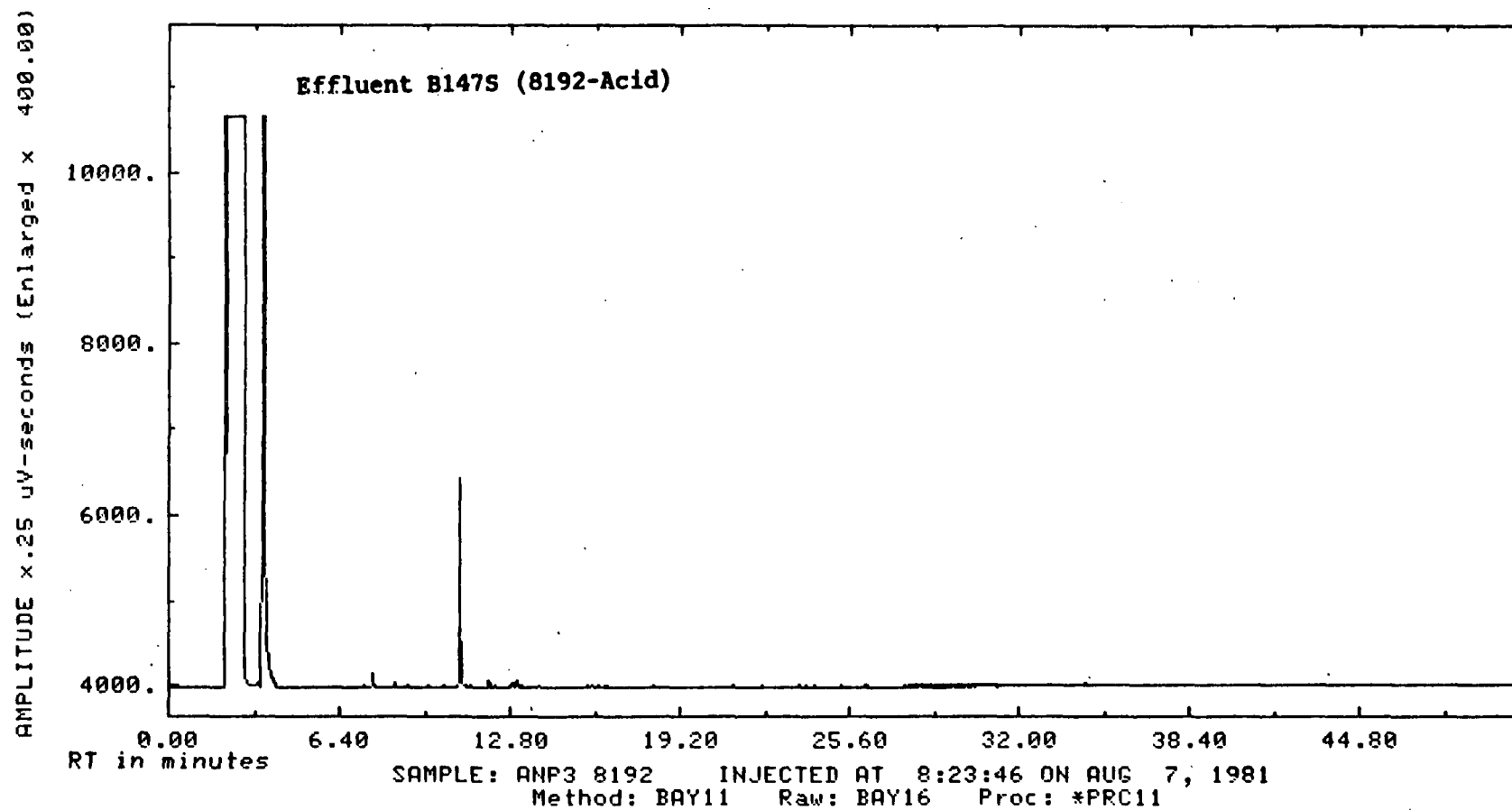


Figure F-53. FID/GC chromatogram of relative retention indices for components in the extractable organics acid fraction from effluent B147S.

TABLE F-54. RELATIVE RETENTION INDICES FOR COMPONENTS
IN THE EXTRACTABLE ORGANICS BASE/NEUTRAL
FRACTION FROM EFFLUENT B147S, FID/GC

PROCESSED FILE: DUCK Effluent B147S (8192-Base/Neutral)
RAW FILE: BAY67
SAMPLE NAME: BNP3 B192

RELATIVE RETENTION VALUES

OUTPUT FILE: OPF2

PEAK#	AREA	TIME	INDEX
1	7957.78	2.10569	***
2	148717.	2.16197	***
3	5.75058E+07	2.21042	***
4	1073	3.33906	***
5	8225.63	3.49066	***
6	169129.	3.55834	***
7	22259.4	12.2386	***
8	43285.6	19.3722	***
9	35799.6	30.4986	298.21
10	1048.62	33.626	375.211
11	21171.	34.5255	397.419
12	2065.94	35.1534	408.594
13	5672.81	36.7193	434.307
14	7428.44	38.418	462.2
15	2601.05	38.5806	464.87
16	3480.5	39.3996	478.318
17	5495.25	40.5667	497.482
18	4293.25	41.4927	508.682

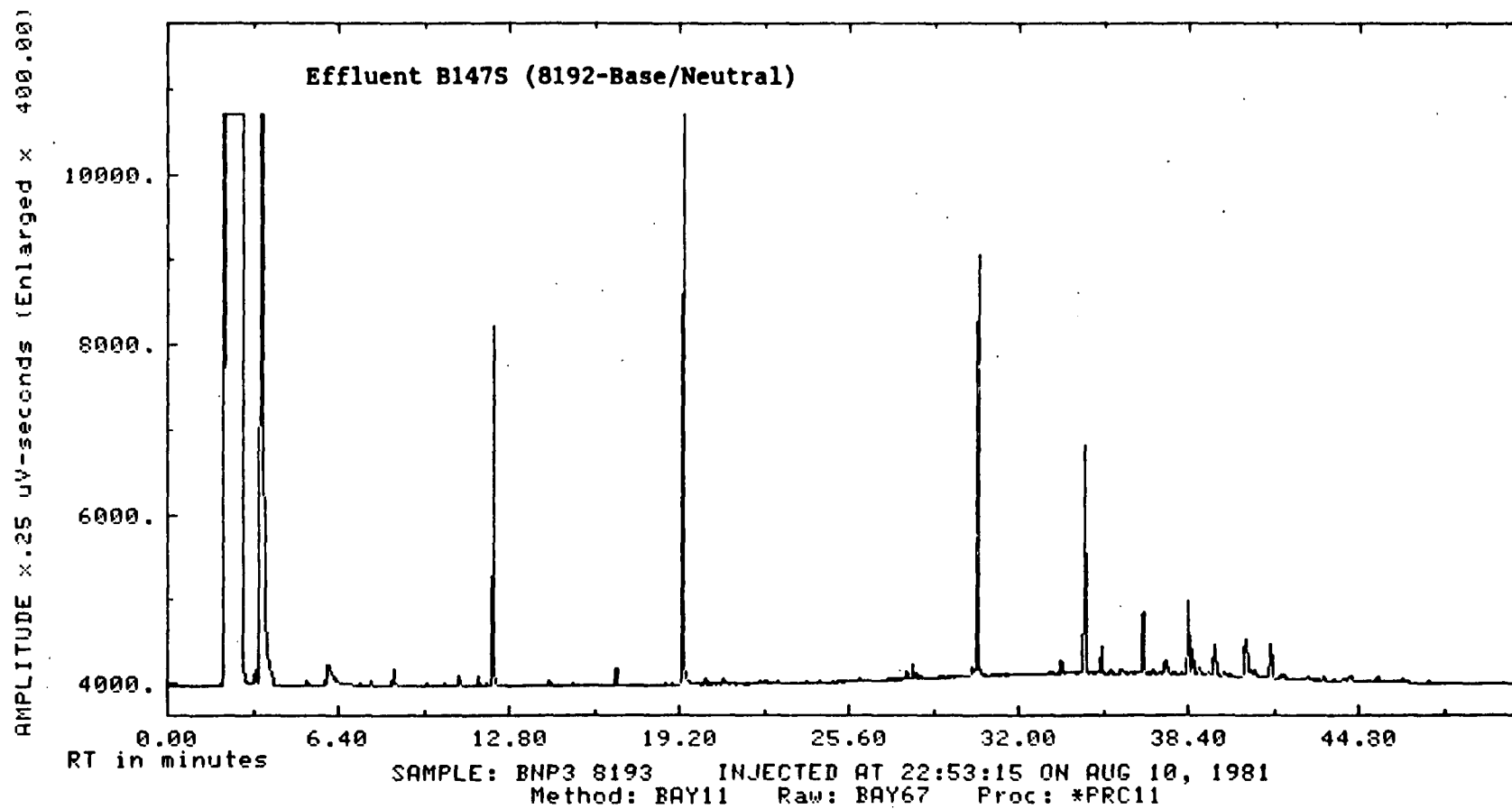


Figure F-54. FID/GC chromatogram of relative retention indices for components in the extractable organics base/neutral fraction from effluent B147S.

TABLE F-55. RELATIVE RETENTION INDICES FOR COMPONENTS
IN THE EXTRACTABLE ORGANICS ACID FRACTION
FROM EFFLUENT C169S, FID/GC

PROCESSED FILE: *PRC11 Effluent C169S (8194-Acid)
RAW FILE: BAY18

SAMPLE NAME: ANP3 8194

RELATIVE RETENTION VALUES

OUTPUT FILE: OPF1

PEAK#	AREA	TIME	INDEX
1	23922.5	2.10282	***
2	84457.5	2.13243	***
3	5.65566E+07	2.21458	***
4	109157.	3.55873	***
5	19266.4	10.9375	***

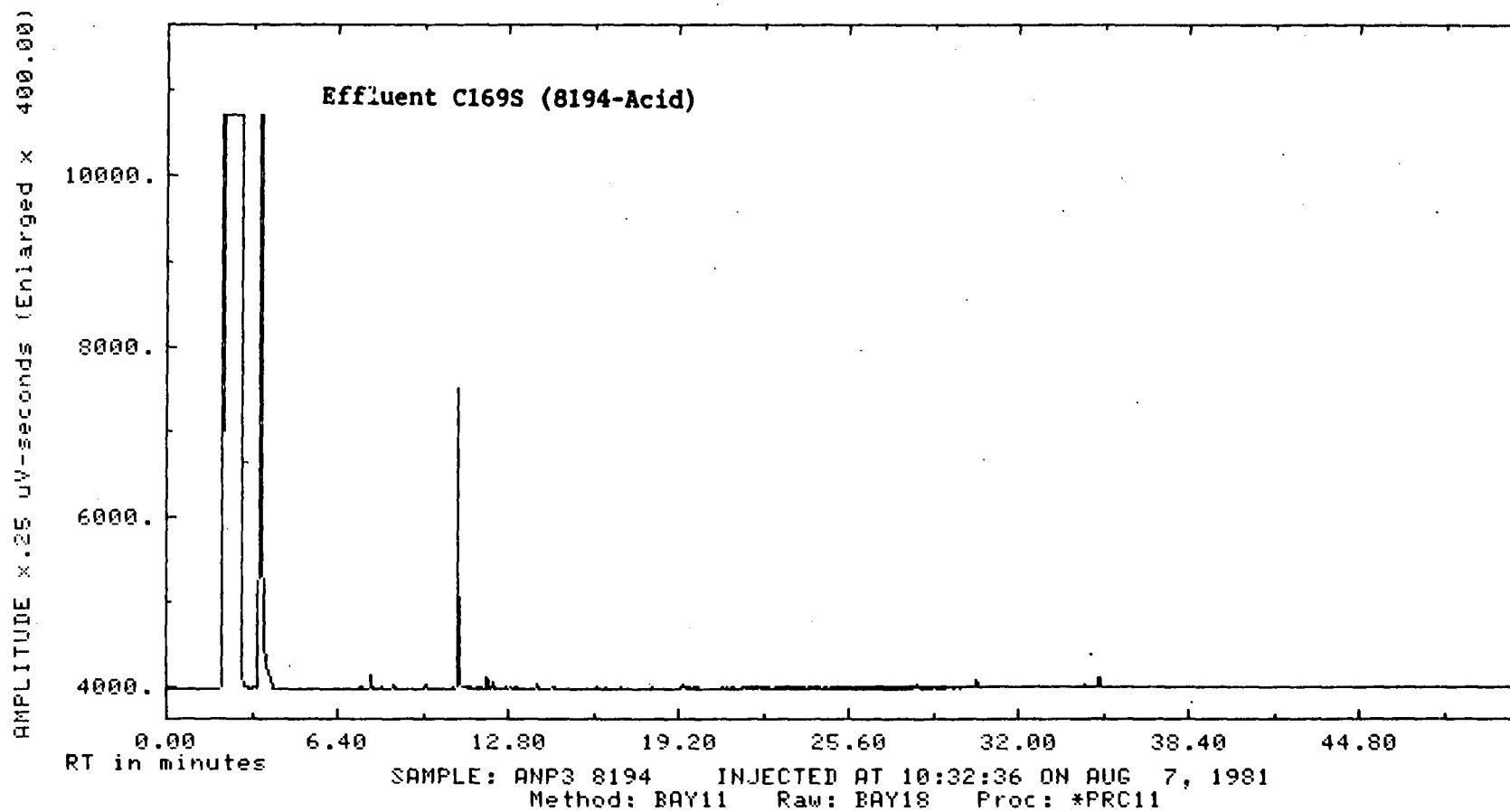


Figure F-55. FID/GC chromatogram of relative retention indices for components in the extractable organics acid fraction from effluent C169S.

TABLE F-56. RELATIVE RETENTION INDICES FOR COMPONENTS
IN THE EXTRACTABLE ORGANICS BASE/NEUTRAL
FRACTION FROM EFFLUENT C169S, FID/GC

PROCESSED FILE: DUCK Effluent C169S (8194-Base/Neutral)
RAW FILE: BAY69

SAMPLE NAME: BNP3 8/94

RELATIVE RETENTION VALUES

OUTPUT FILE: OPF2

PEAK#	AREA	TIME	INDEX
1	4296.67	2.10799	***
2	90003.5	2.16958	***
3	5.55731E+07	2.21042	***
4	5622.03	3.49148	***
5	105962.	3.55656	***
6	1345.87	10.9354	***
7	16260.1	12.2386	***
8	27770.9	19.3684	***
9	24149.3	30.4888	297.996
10	6449	34.5131	397.113

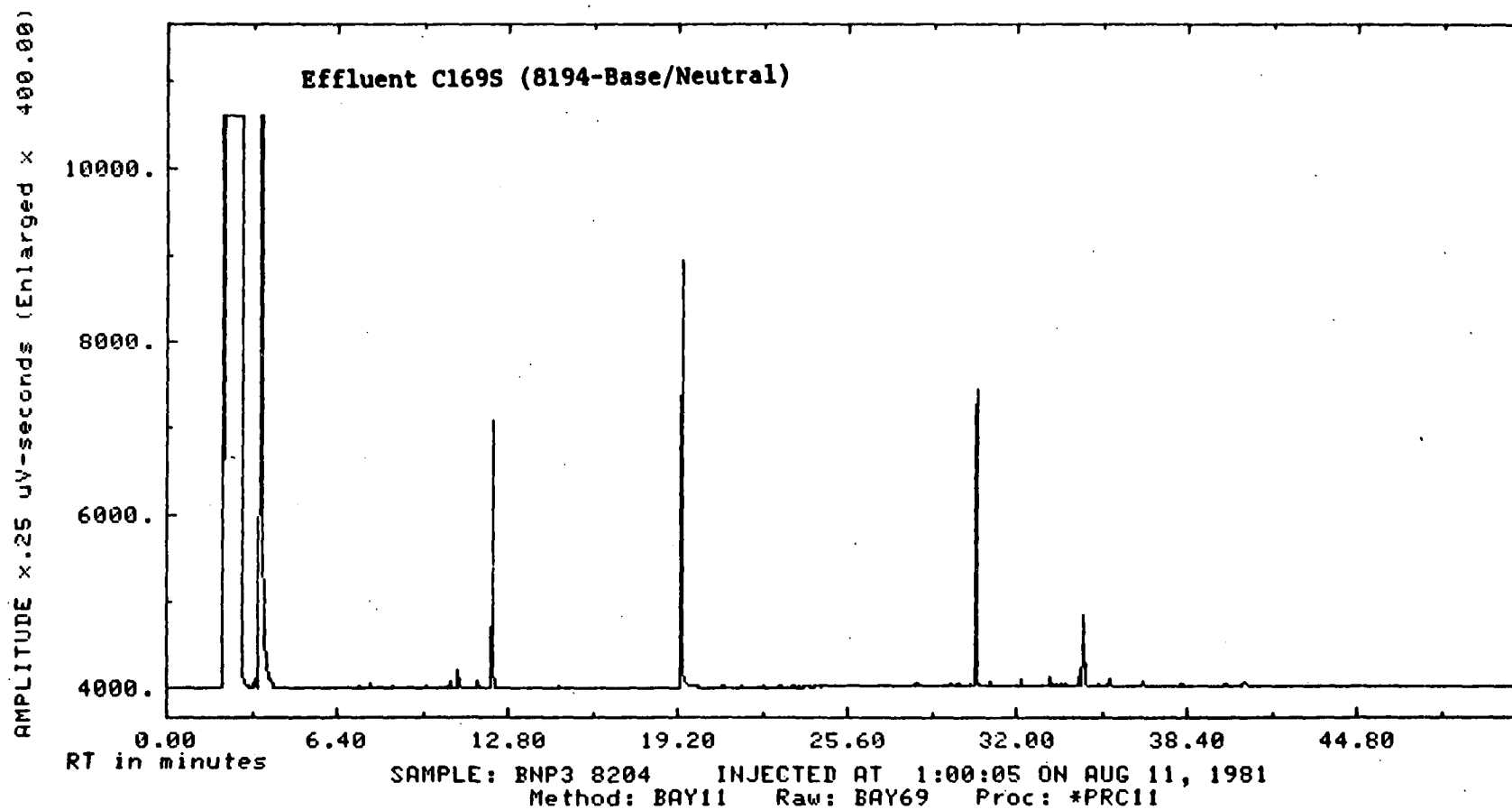


Figure F-56. FID/GC chromatogram of relative retention indices for components in the extractable organics base/neutral fraction from effluent C169S.

APPENDIX G

TOTAL ION CHROMATOGRAMS FOR PHASE III EFFLUENT SAMPLES

See Appendix D for the identification and quantitation of peaks.

** BATCH PROCESSOR RECONSTRUCT **
1 UL 100/100 D10 + 8233 ANP3 (A109) 8/12/81 BMH
50(4)-280(8) BTL#16 D13105

FRN 13105
1ST SC/PG: 1
X= .25 Y= 1.00

Effluent A109 (8233-Acid)

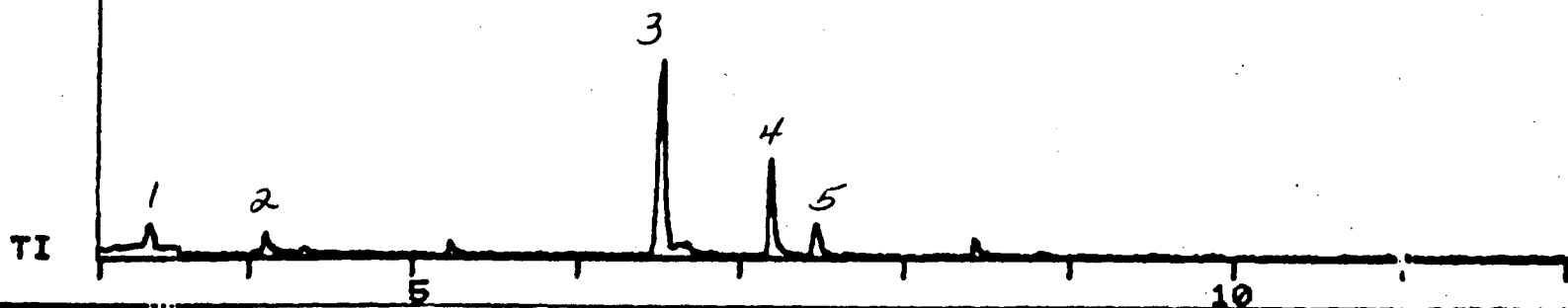


Figure G-1. Total ion chromatogram from GC/MS analysis of extractable organics acid fraction from effluent A109.

** BATCH PROCESSOR RECONSTRUCT **
1 UL 100/100 D10 + 8233 ANP3 (A109) 8/12/81 BMH
50(4)-280(8) BTL#16 D13105

FRN 13105
1ST SC/PG: 933
X= .25 Y= 1.00

Effluent A109 (8233-Acid)

TI

15

23

Figure G-1 (continued)

** BATCH PROCESSOR RECONSTRUCT **
1 UL 100/100 D10 + 8233 ANP3 (A109) 8/12/81 BMH
50(4)-280(8) BTL#16 D13105

FRN 13105
1ST SC/PG:1865
X= .25 Y= 1.00

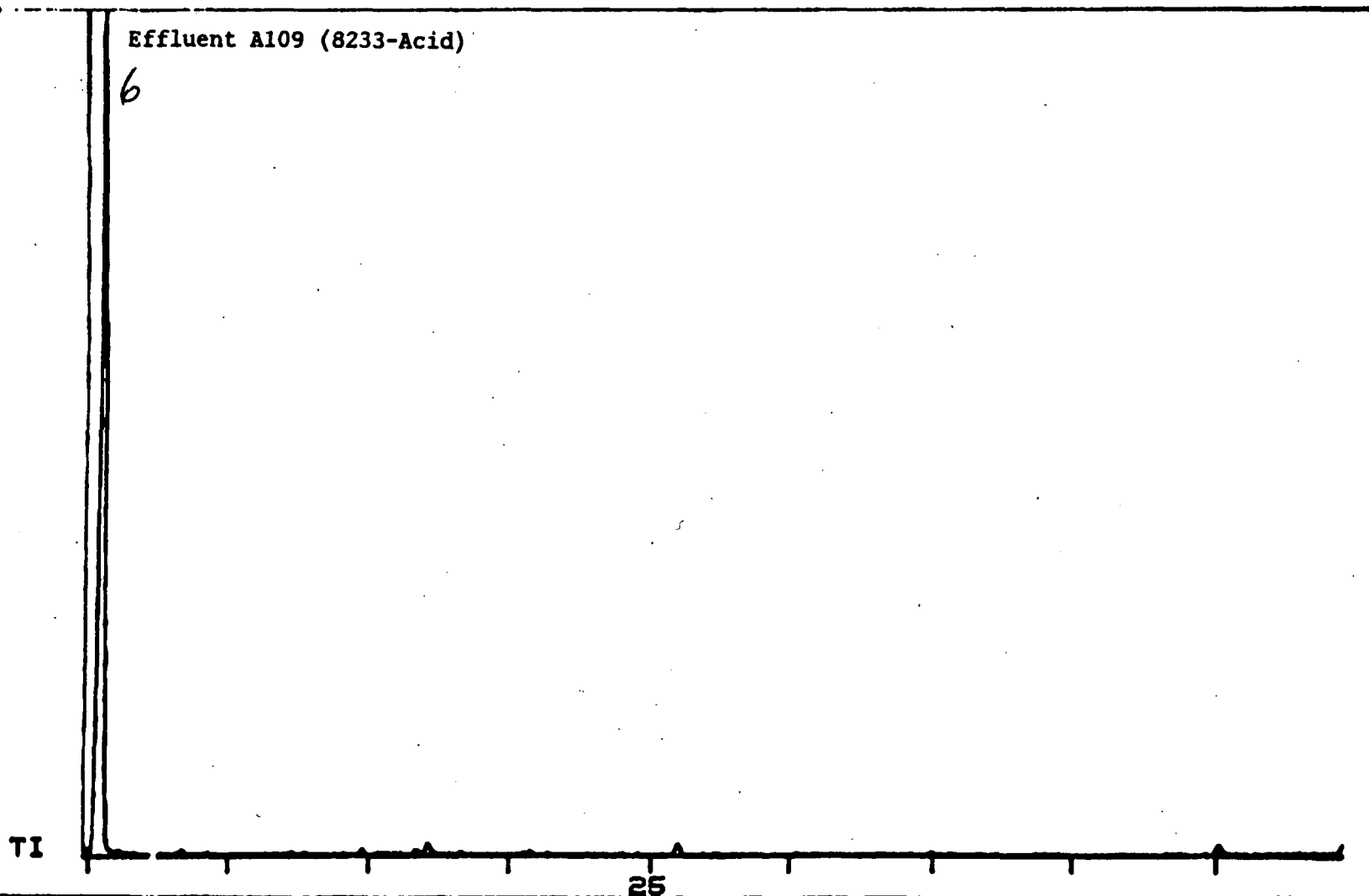


Figure G-1 (continued)

** BATCH PROCESSOR RECONSTRUCT **
1 UL 125/125 D10 + 8233-BNP3 (A109) 8/13/81 BMH
50(4)-280(8) BTL#19 D13132

FRN 13132
1ST SC/PG: 1
X= .25 Y= 1.00

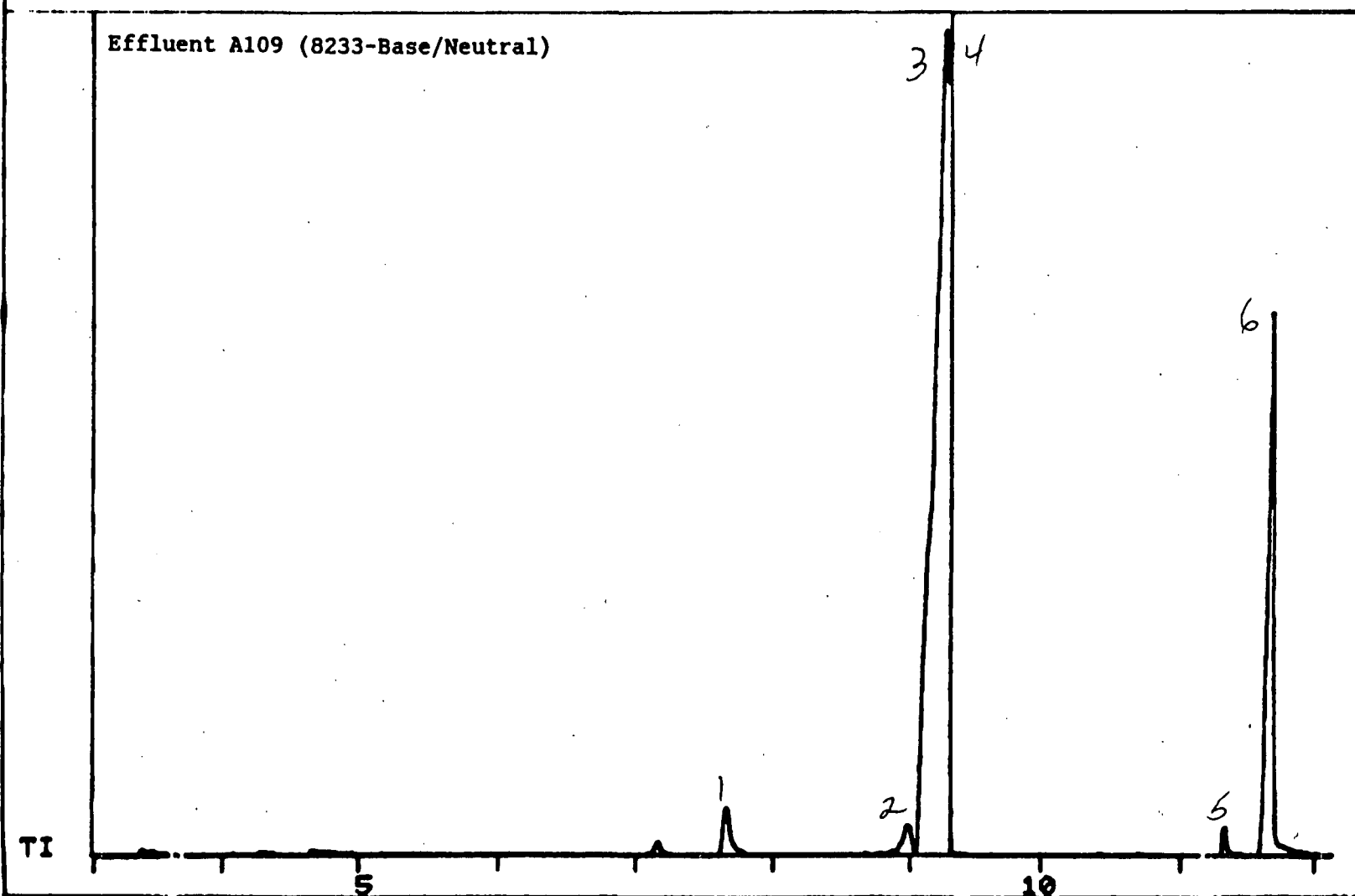


Figure G-2. Total ion chromatogram from GC/MS analysis of extractable organics base/neutral fraction from effluent A109.

** BATCH PROCESSOR RECONSTRUCT **
1 UL 125/125 D10 + 8233-BNP3 (A109) 8/13/81 BMH
50(4)-280(8) BTL#19

D13132

FRN 13132
1ST SC/PG: 933
X= .25 Y= 1.00

Effluent A109 (8233-Base/Neutral)

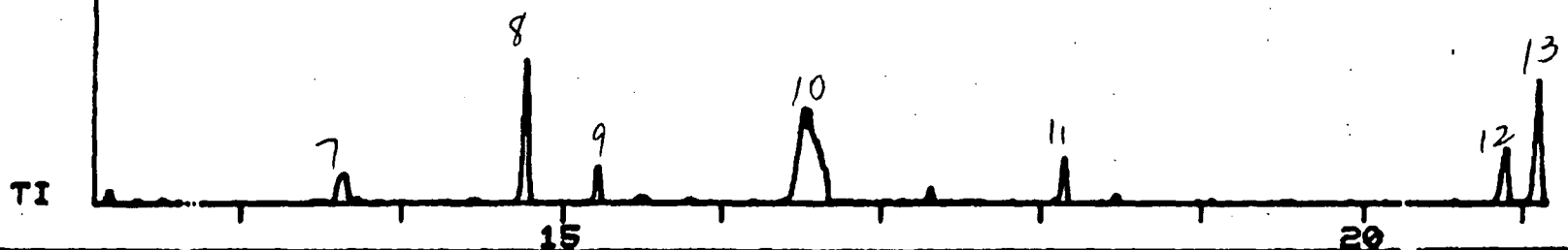


Figure G-2 (continued)

** BATCH PROCESSOR RECONSTRUCT **
 1 UL 125/125 D10 + 8233-BNP3 (A109) 8/13/81 BMH
 50(4)-280(8) BTL#19

FRN 13132
 1ST SC/PG:1865
 X= .25 Y= 1.00

Effluent A109 (8233-Base/Neutral)

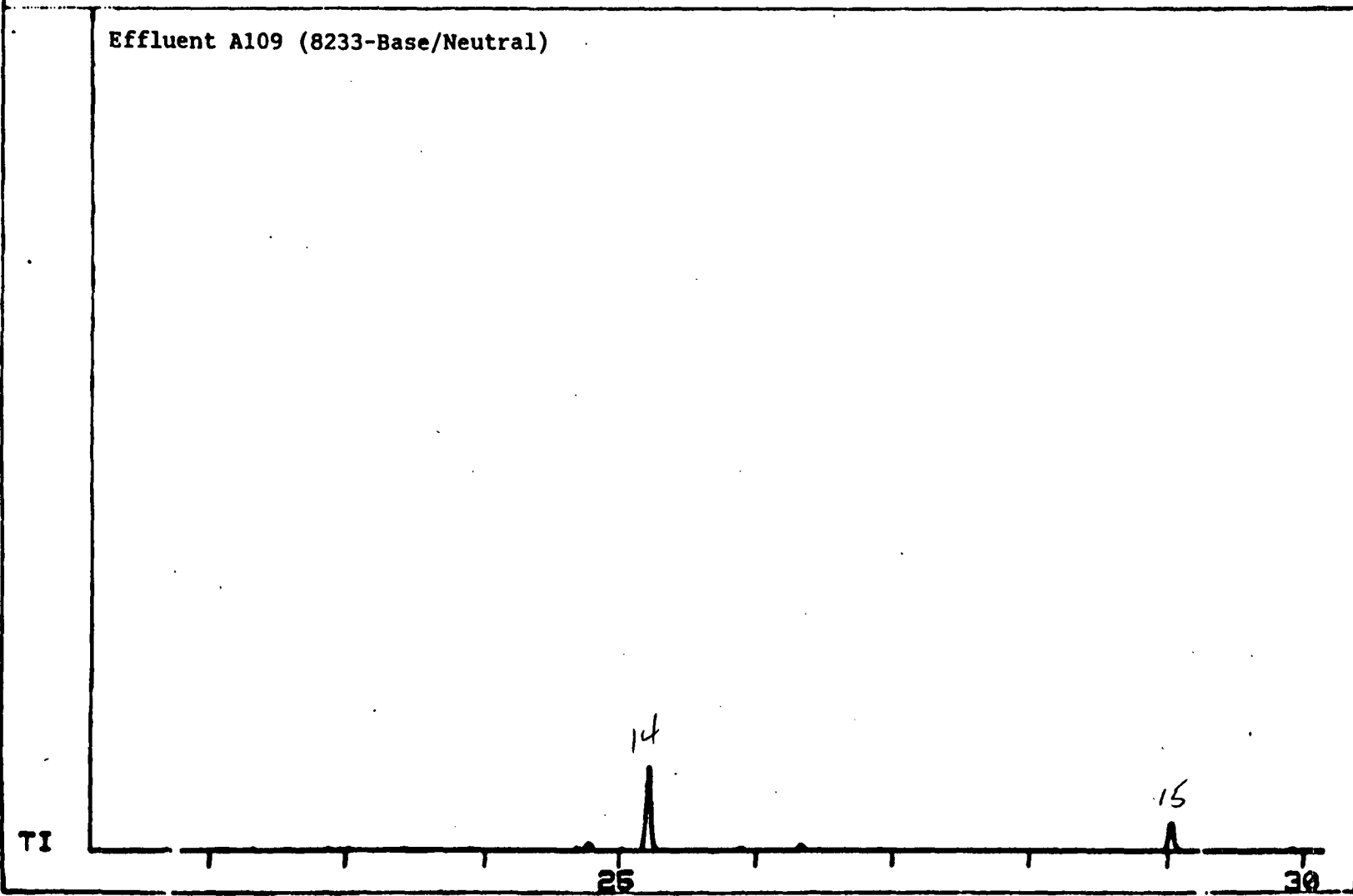


Figure G-2 (continued)

G-7

** BATCH PROCESSOR RECONSTRUCT **
1 UL 100/100 D10 + 8219 ANP3 (B112D) 8/12/81 BMH
50(4)-280(8) BTL#13

FRN 13102
1ST SC/PG: 1
X= .25 Y= 1.00

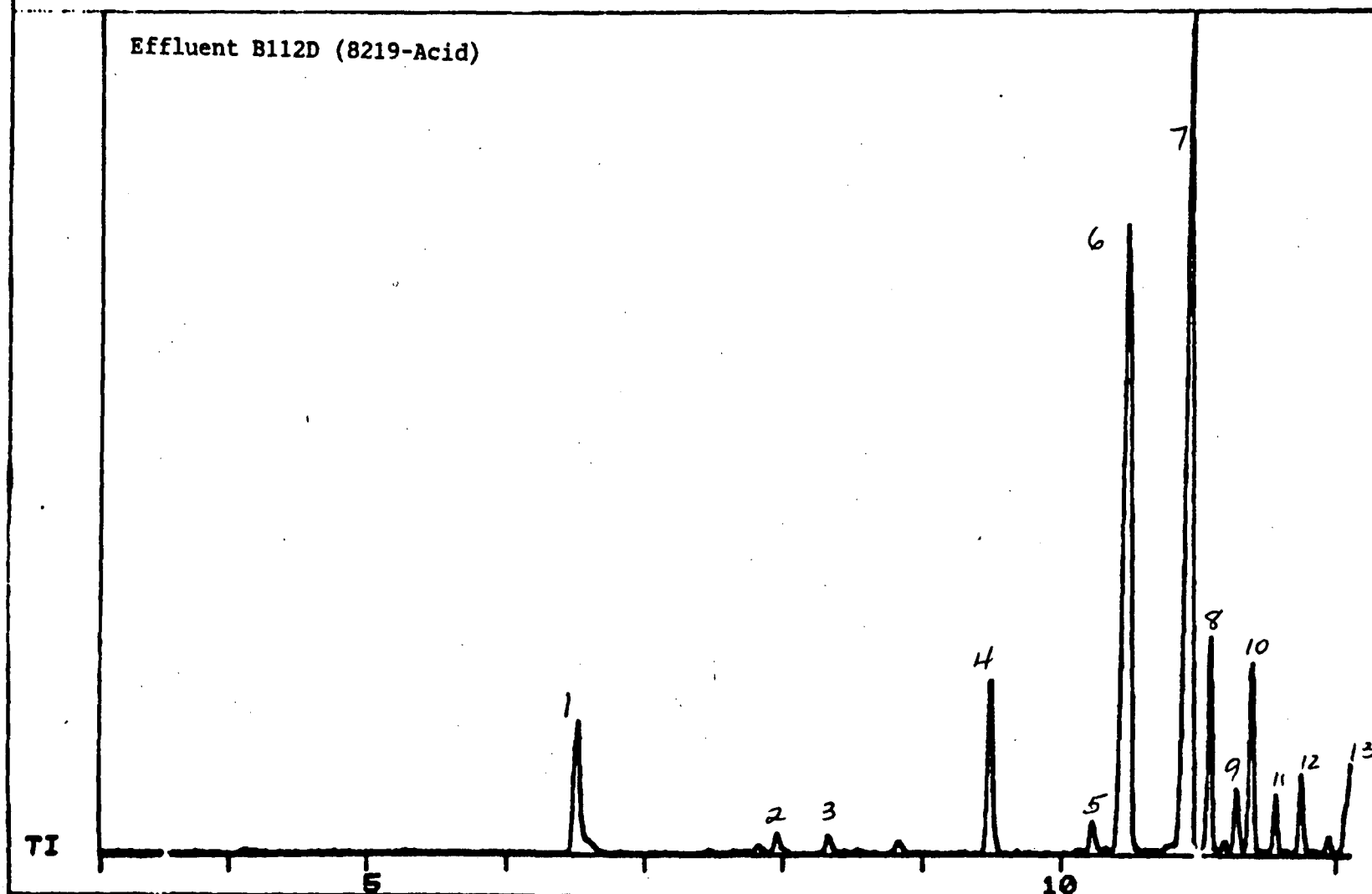


Figure G-3. Total ion chromatogram from GC/MS analysis of extractable organics acid fraction from effluent B112D.

** BATCH PROCESSOR RECONSTRUCT **
1 UL 100/100 D10 + 8219 ANP3 (B112D) 8/12/81 BMH
50(4)-280(8) BTL#13 D13102

FRN 13102
1ST SC/PG: 933
X= .25 Y= 1.00

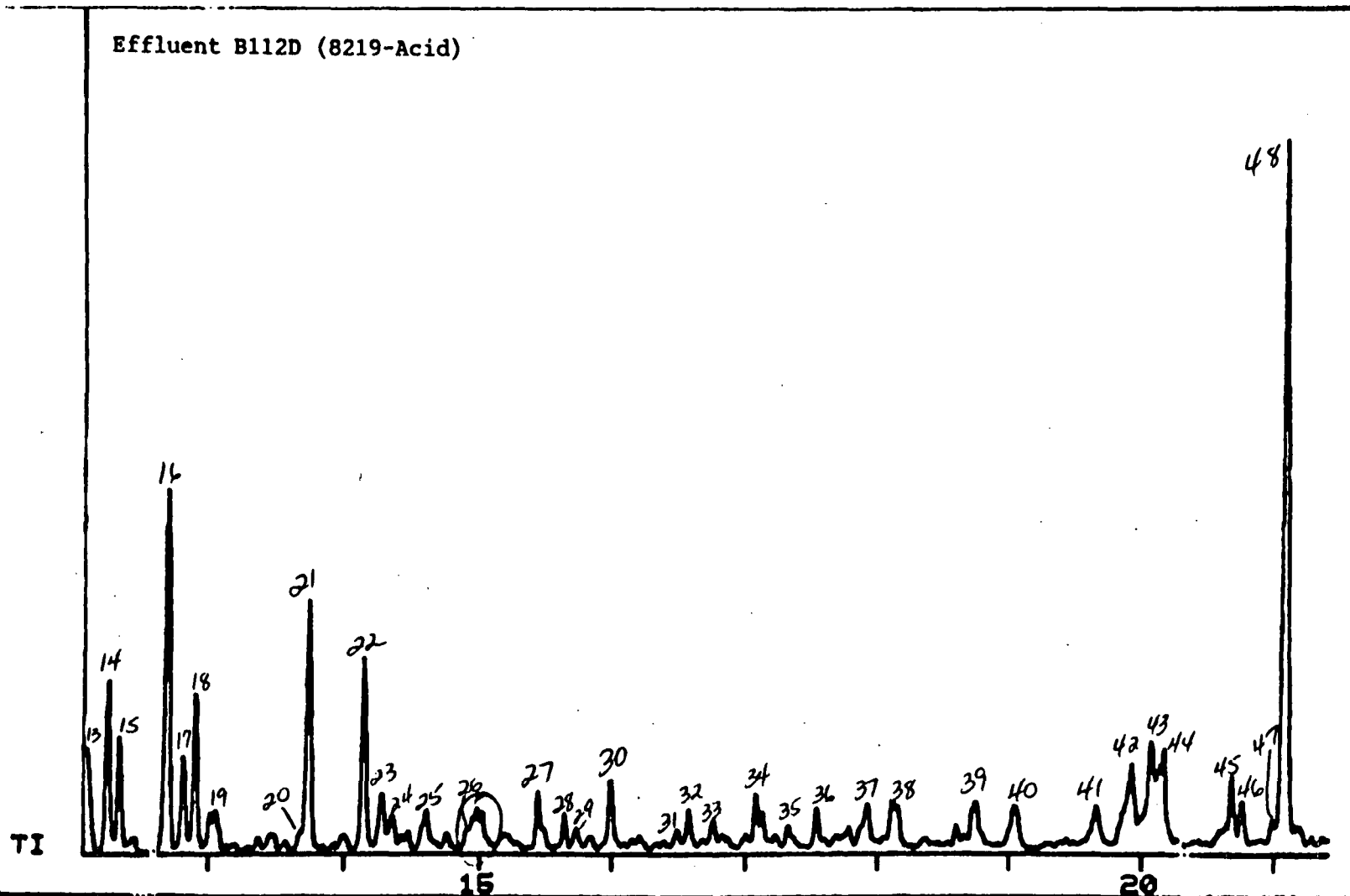


Figure G-3 (continued)

** BATCH PROCESSOR RECONSTRUCT **
1 UL 100/100 D10 + 8219 ANP3 (B112D) 8/12/81 BMH
50(4)-280(8) BTL*13 D13102

FRN 13102
1ST SC/PG:1865
X= .25 Y= 1.00

Effluent B112D (8219-Acid)

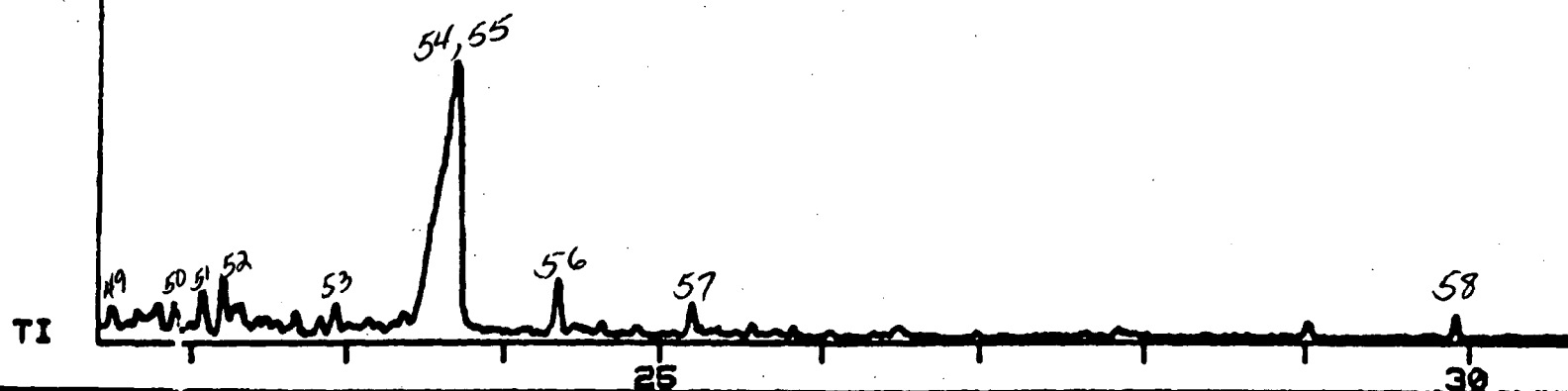


Figure G-3 (continued)

** BATCH PROCESSOR RECONSTRUCT **
1 UL 125/125 D10 + 8219-BNP3 (B112D) 8/13/81 BMH
50(4)-280(8) BTL#17 D13130

FRN 13130
1ST SC/PG: 1
X= .25 Y= 1.00

Effluent B112D (8219-Base/Neutral)

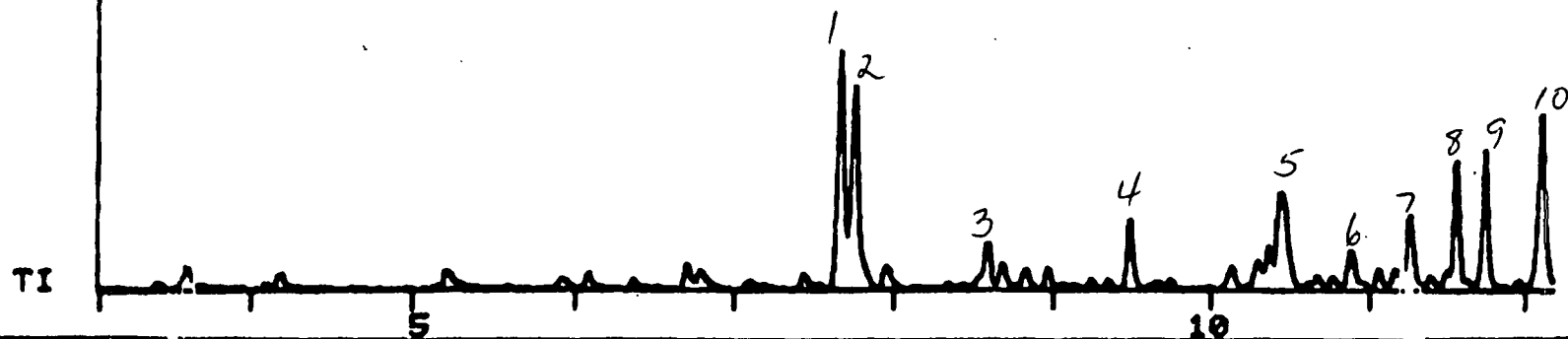


Figure G-4. Total ion chromatogram from GC/MS analysis of extractable organics base/neutral fraction from effluent B112D.

**** BATCH PROCESSOR RECONSTRUCT ****
1 UL 125/125 D10 + 8219-BNP3 (B112D) 8/13/81 BMH
50(4)-280(8) BTL#17

FRN 13130
1ST SC/PG: 933
X= .25 Y= 1.00

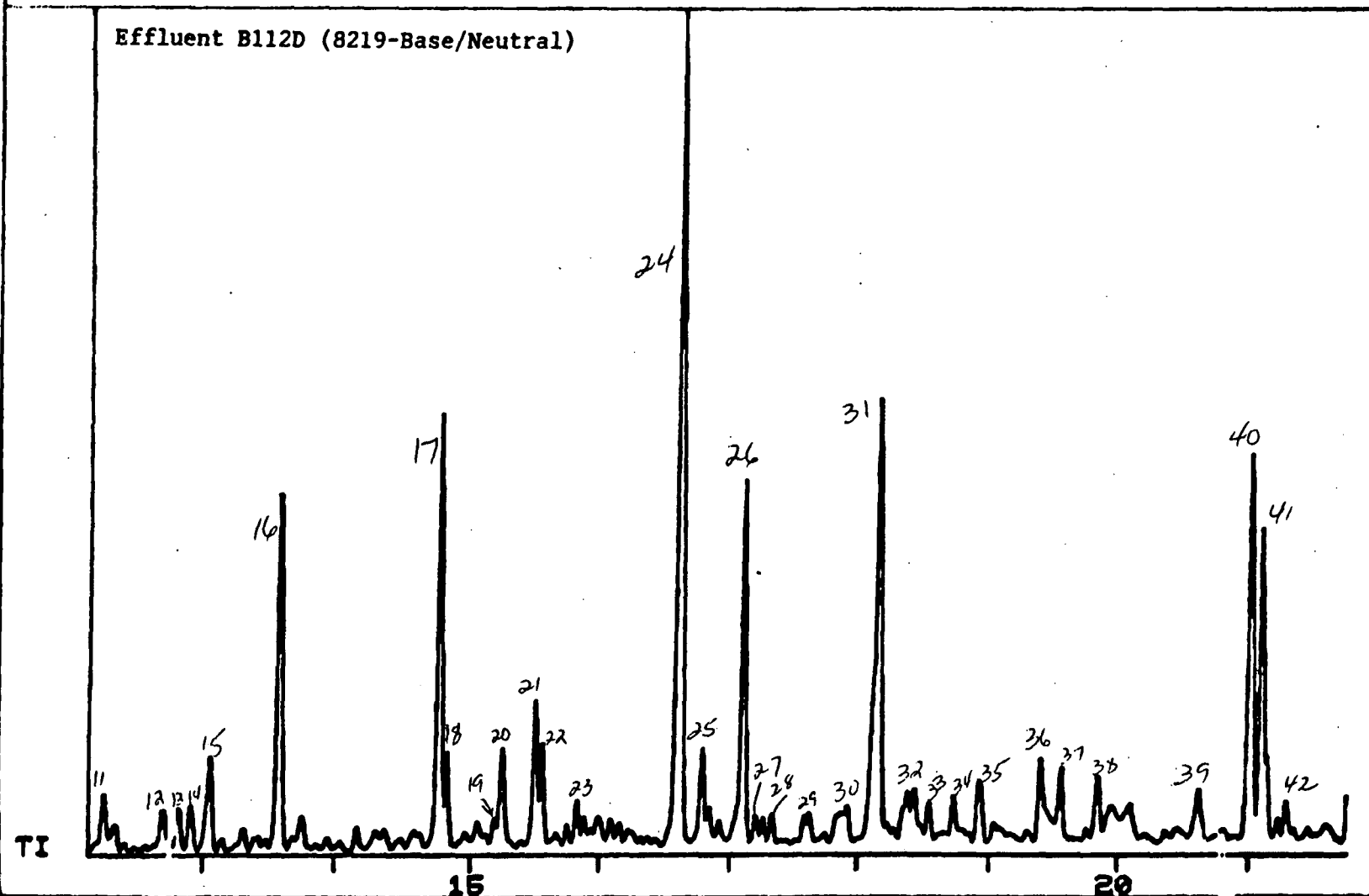


Figure G-4 (continued)

** BATCH PROCESSOR RECONSTRUCT **
1 UL 125/125 D10 + 8219-BNP3 (B112D) 8/13/81 BMH
50(4)-280(8) BTL#17

FRN 13130
1ST SC/PG:1865
X= .25 Y= 1.00

Effluent B112D (8219-Base/Neutral)

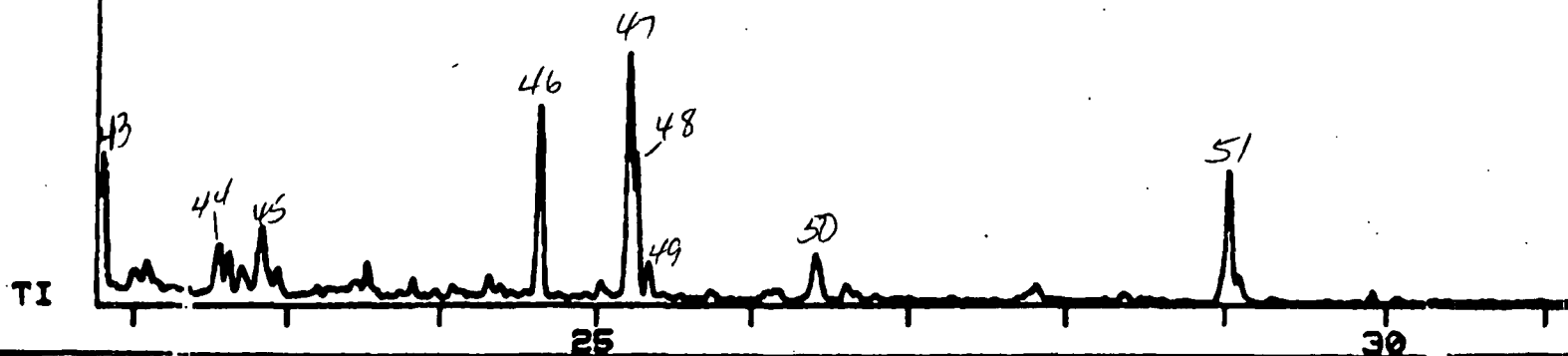


Figure G-4 (continued)

** BATCH PROCESSOR RECONSTRUCT **
1 UL 125/125 D10 + 8219-BNP3 (B112D) 8/13/81 BMH
50(4)-280(8) BTL#17

FRN 13130
1ST SC/PG:2797
X= .25 Y= 1.00

Effluent B112D (8219-Base/Neutral)

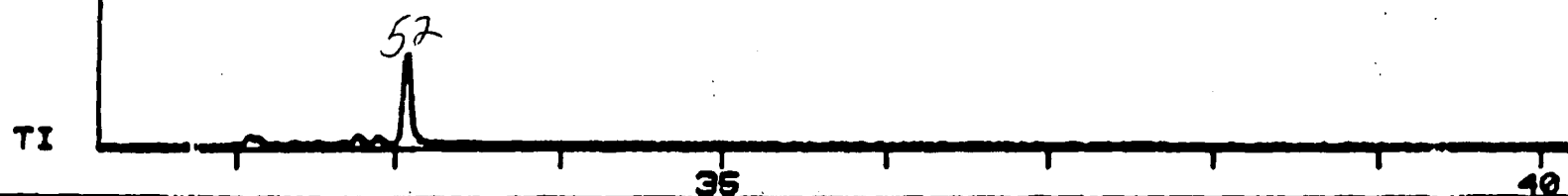


Figure G-4 (continued)

** BATCH PROCESSOR RECONSTRUCT **
1 UL 100/100 D10 + 8205 ANP3 (B119D) 8/12/81 BMH
50(4)-280(8) BTL#8

FRN 13097
1ST SC/PG: 1
X= .25 Y= 1.00

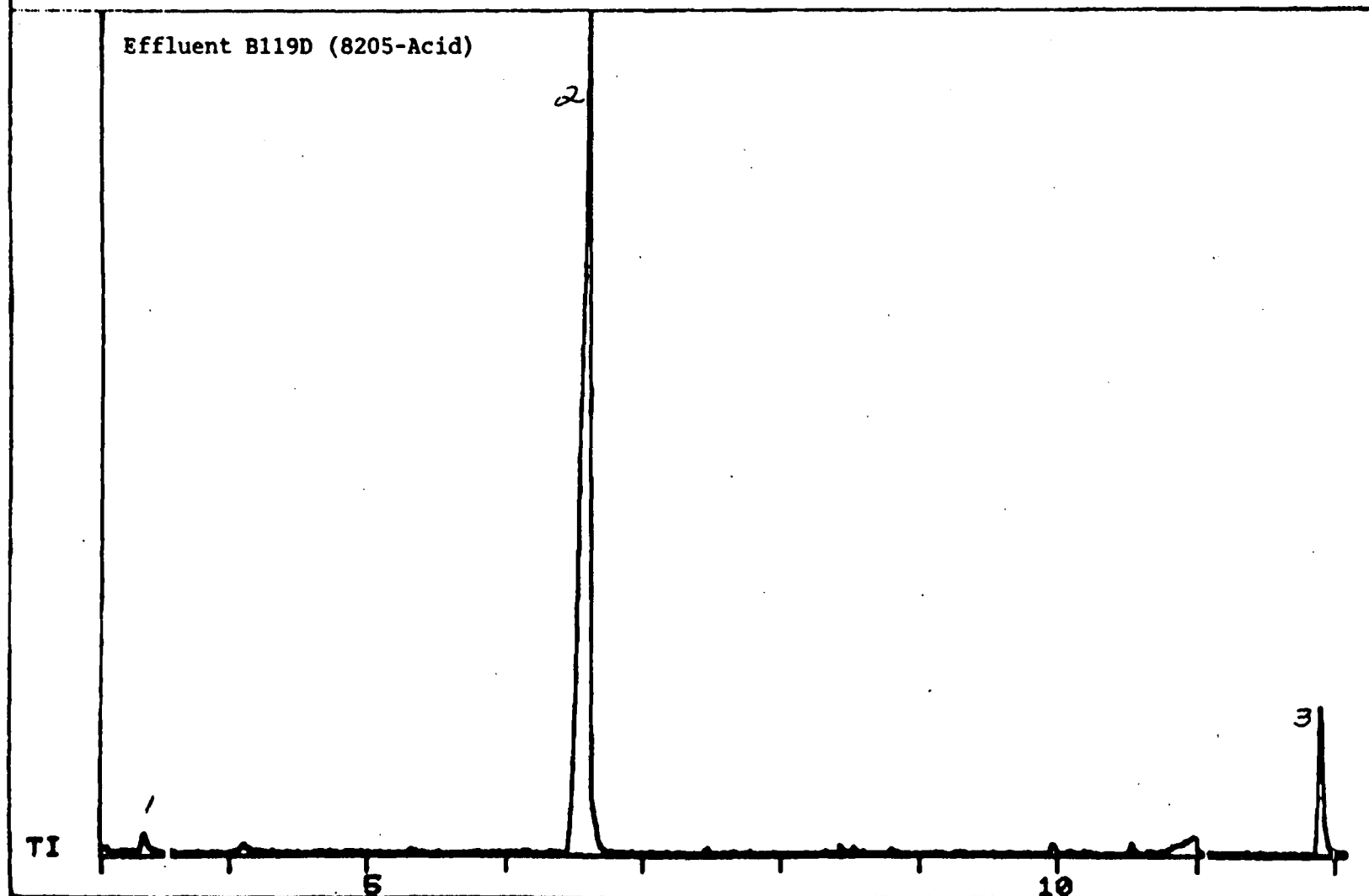


Figure G-5. Total ion chromatogram from GC/MS analysis of extractable organics acid fraction from effluent B119D.

** BATCH PROCESSOR RECONSTRUCT **
1 UL 100/100 D10 + 8205 ANP3 (B119D) 8/12/81 BMH
50(4)-280(8) BTL#8 D13097

FRN 13097
1ST SC/PG: 933
X= .25 Y= 1.00

Effluent B119D (8205-Acid)

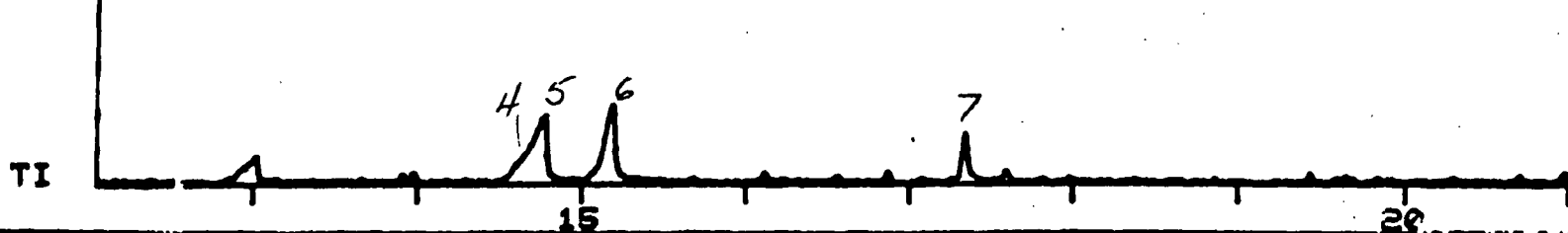


Figure G-5 (continued)

** BATCH PROCESSOR RECONSTRUCT **
1 UL 100/100 D10 + 8205 ANP3 (B119D) 8/12/81 BMH
50(4)-280(8) BTL#8 D13097

FRN 13097
1ST SC/PG:1865
X= .25 Y= 1.00

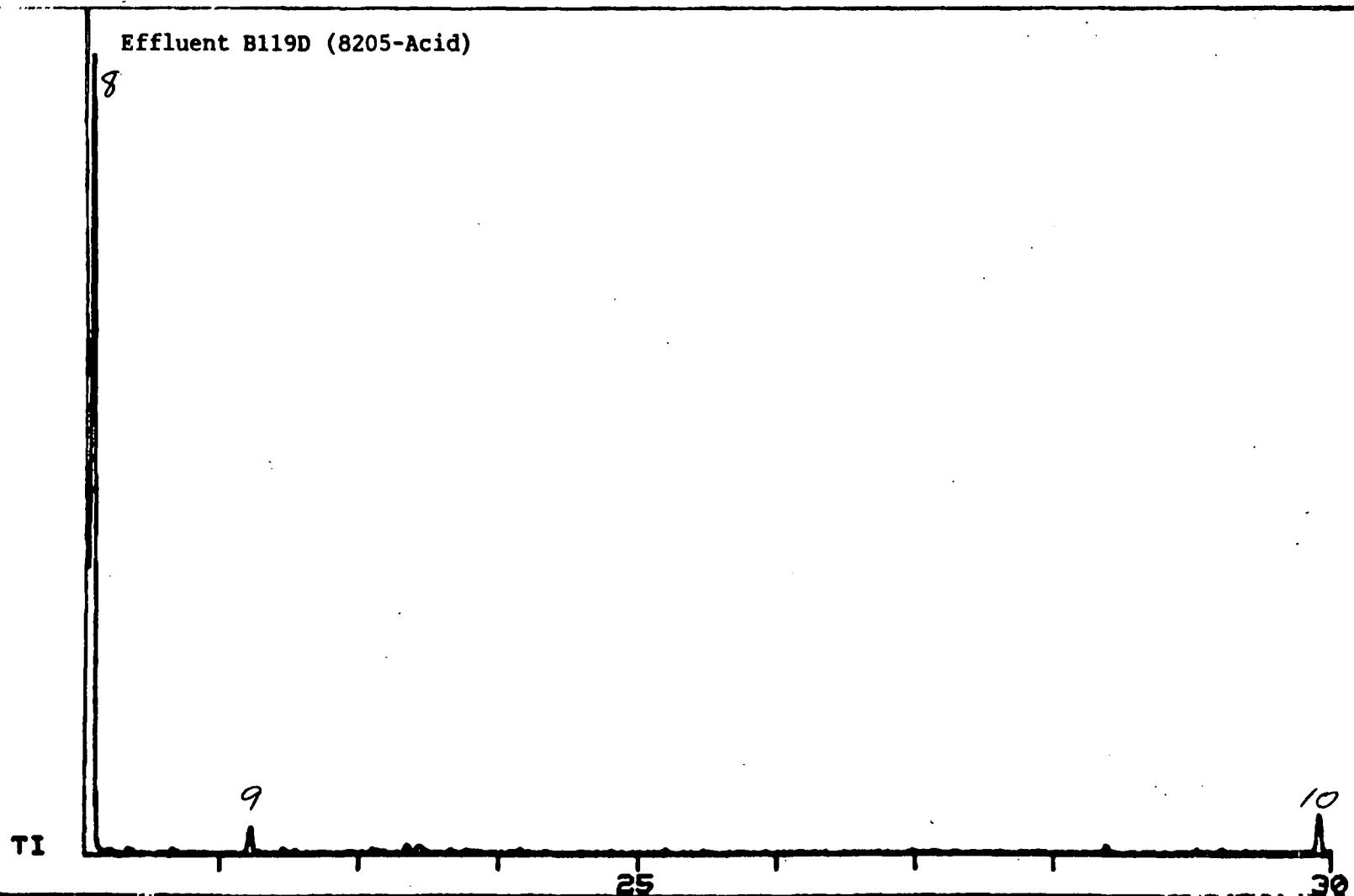


Figure G-5 (continued)

** BATCH PROCESSOR RECONSTRUCT **
1 UL 125/125 D10 + 8205-BNP3 (B119D) 8/13/81 BMH
50(4)-280(8) BTL#11 D13124

FRN 13124
1ST SC/PG: 1
X= .25 Y= 1.00

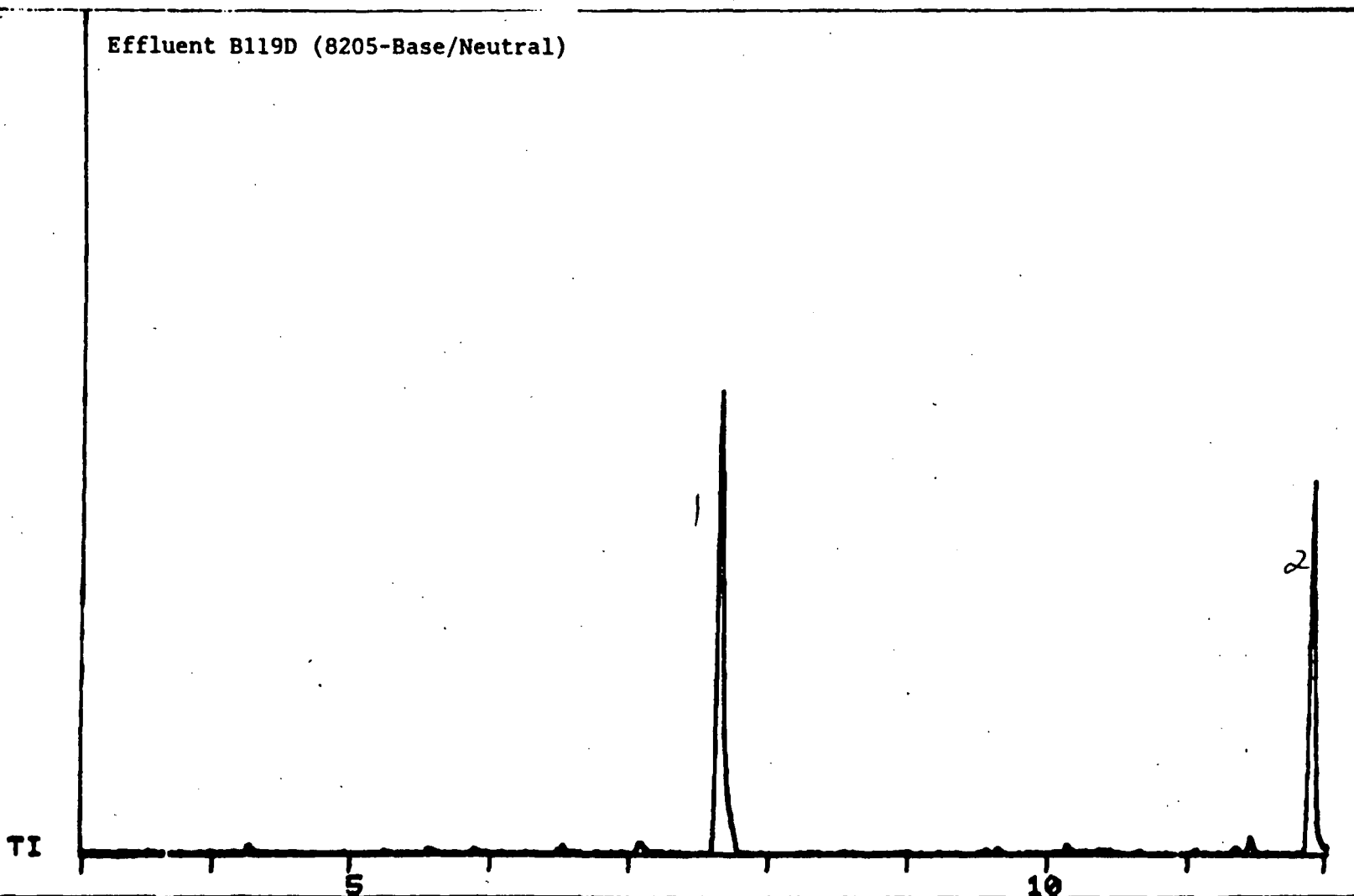


Figure G-6. Total ion chromatogram from GC/MS analysis of extractable organics base/neutral fraction from effluent B119D.

** BATCH PROCESSOR RECONSTRUCT **
1 UL 125/125 D10 + 8205-BNP3 (B119D) 8/13/81 BMH
50(4)-280(8) BTL#11 D13124

FRN 13124
1ST SC/PG: 933
X= .25 Y= 1.00

Effluent B119D (8205-Base/Neutral)

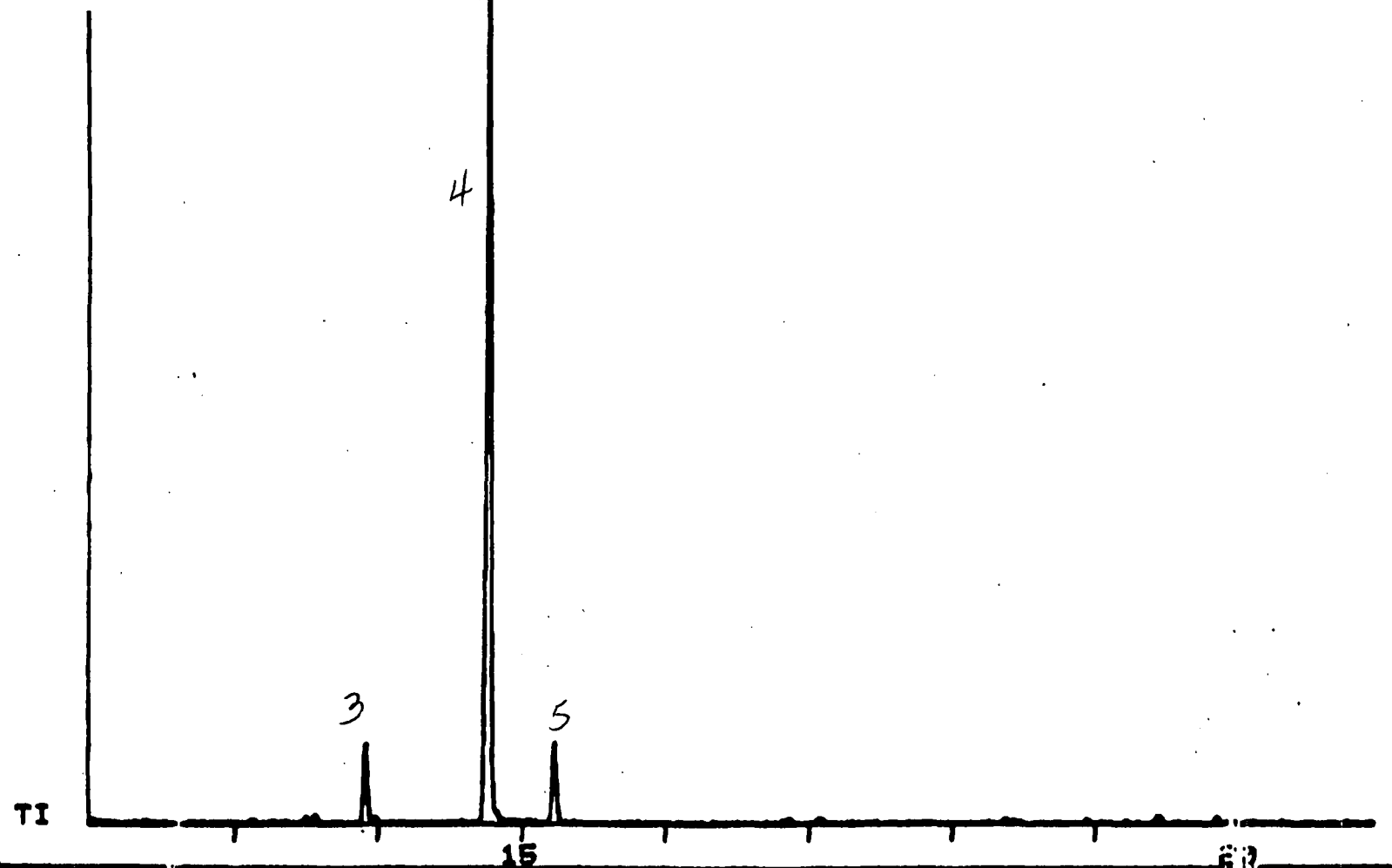


Figure G-6 (continued)

** BATCH PROCESSOR RECONSTRUCT **
1 UL 125/125 D10 + 8205-BNP3 (B119D) 8/13/81 BMH
50(4)-280(8) BTL#11

FRN 13124
1ST SC/PG:1865
X= .25 Y= 1.00

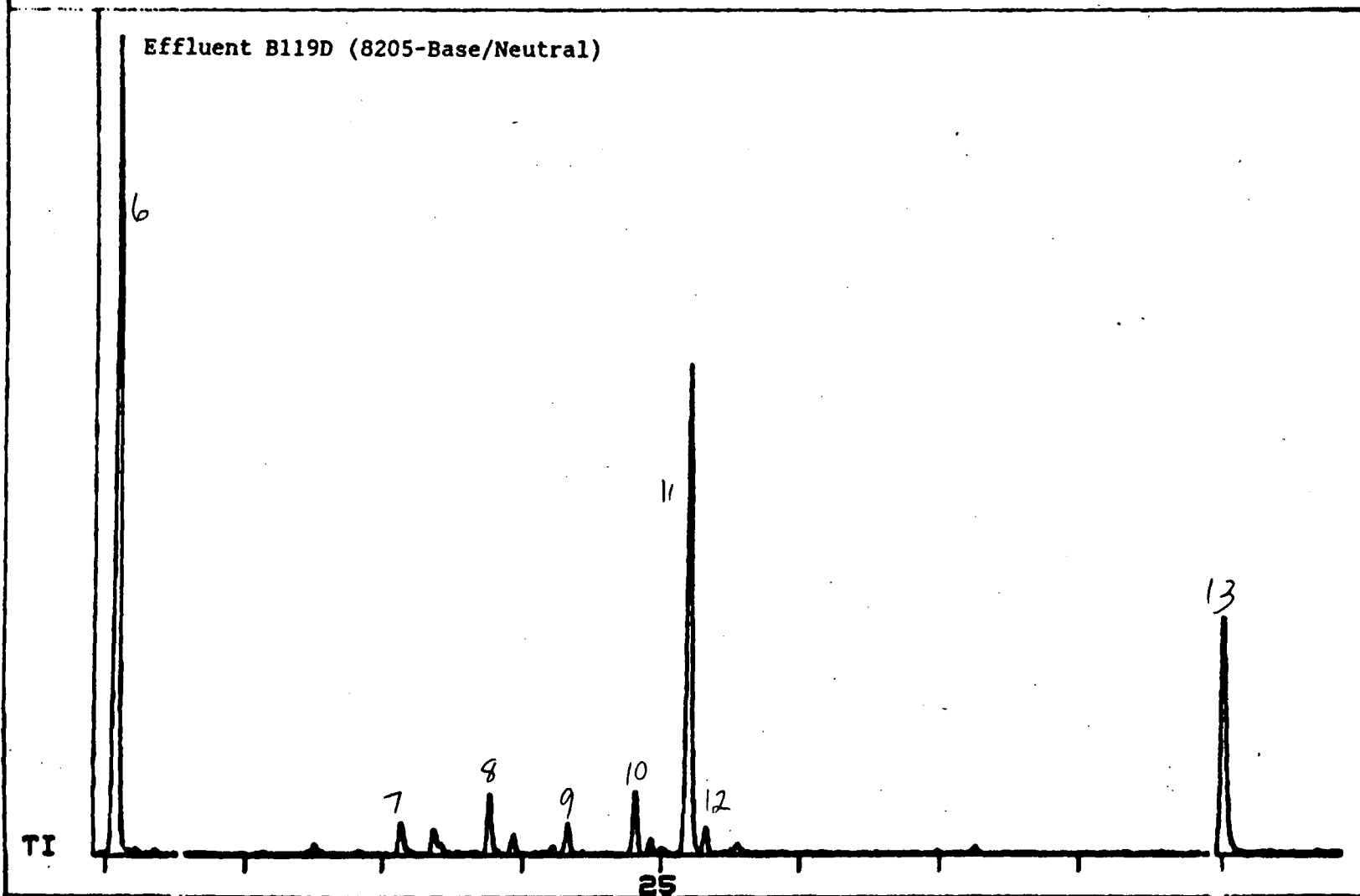


Figure G-6 (continued)

** BATCH PROCESSOR RECONSTRUCT **
1 UL 125/125 D10 + 8205-BNP3 (B119D) 8/13/81 BMH
50(4)-280(8) BTL#11 D13124

FRN 13124
1ST SC/PG:2797
X= .25 Y= 1.00

Effluent B119D (8205-Base/Neutral)

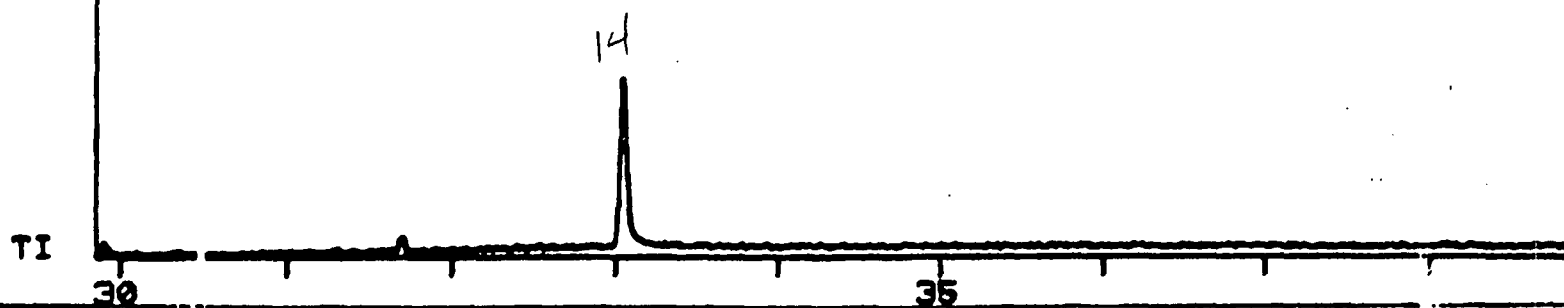


Figure G-6 (continued)

** BATCH PROCESSOR RECONSTRUCT **
1 UL 100/100 D10 + 8237 ANP3 (C150D) 8/12/81 BMH
50(4)-280(8) BTL#17 D13106

FRN 13106
1ST SC/PG: 1
X= .25 Y= 1.00

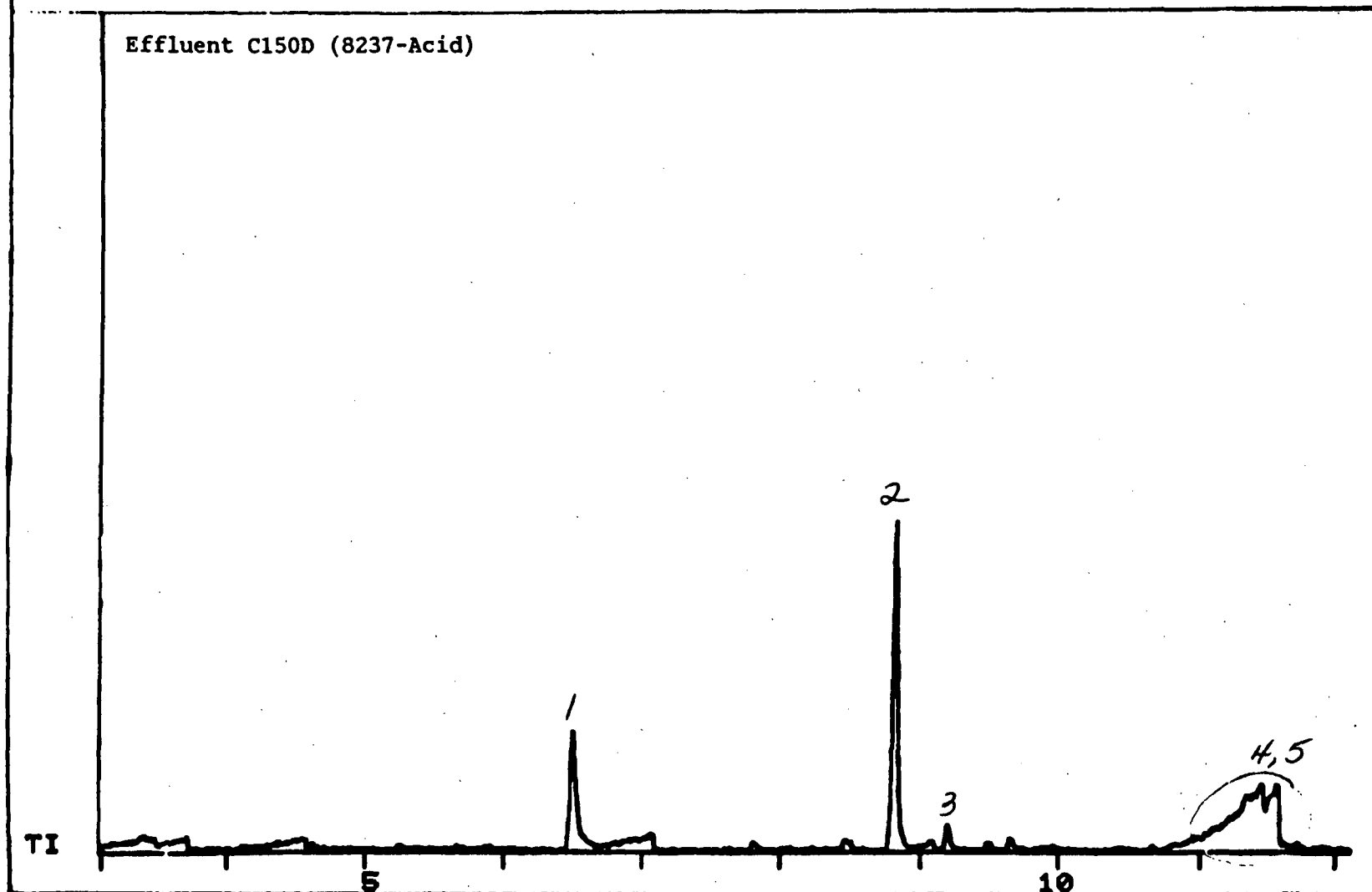


Figure G-7. Total ion chromatogram from GC/MS analysis of extractable organics acid fraction from effluent C150D.

** BATCH PROCESSOR RECONSTRUCT **
1 UL 100/100 D10 + 8237 ANP3 (C150D) 8/12/81 BMH
50(4)-280(8) BTL#17 D13106

FRN 13106
1ST SC/PG: 933
X= .25 Y= 1.00

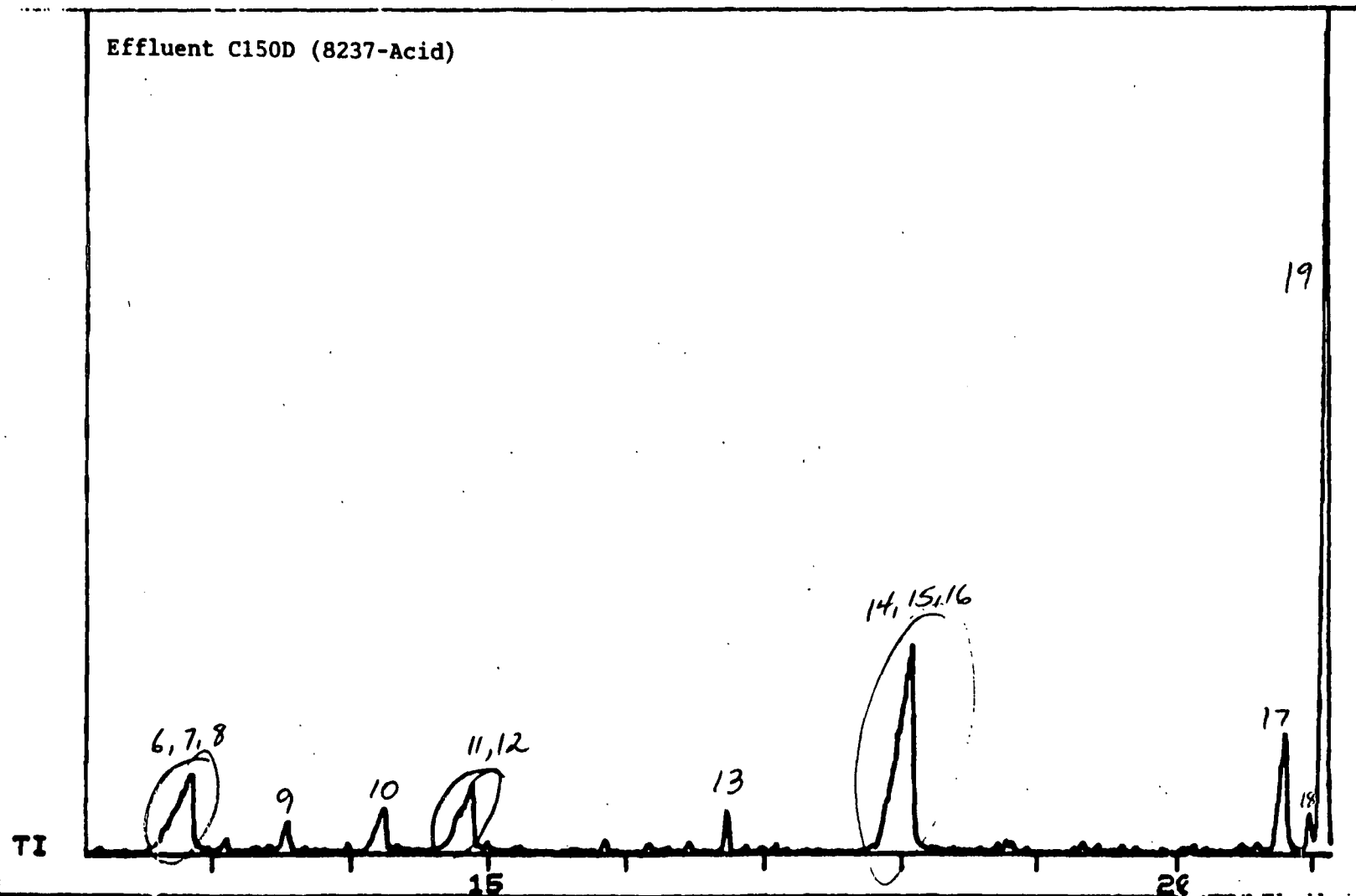


Figure G-7 (continued)

** BATCH PROCESSOR RECONSTRUCT **
1 UL 100/100 D10 + 8237 ANP3 (C150D) 8/12/81 BMH
50(4)-280(8) BTL#17 D13106

FRN 13106
1ST SC/PG:1865
X= .25 Y= 1.00

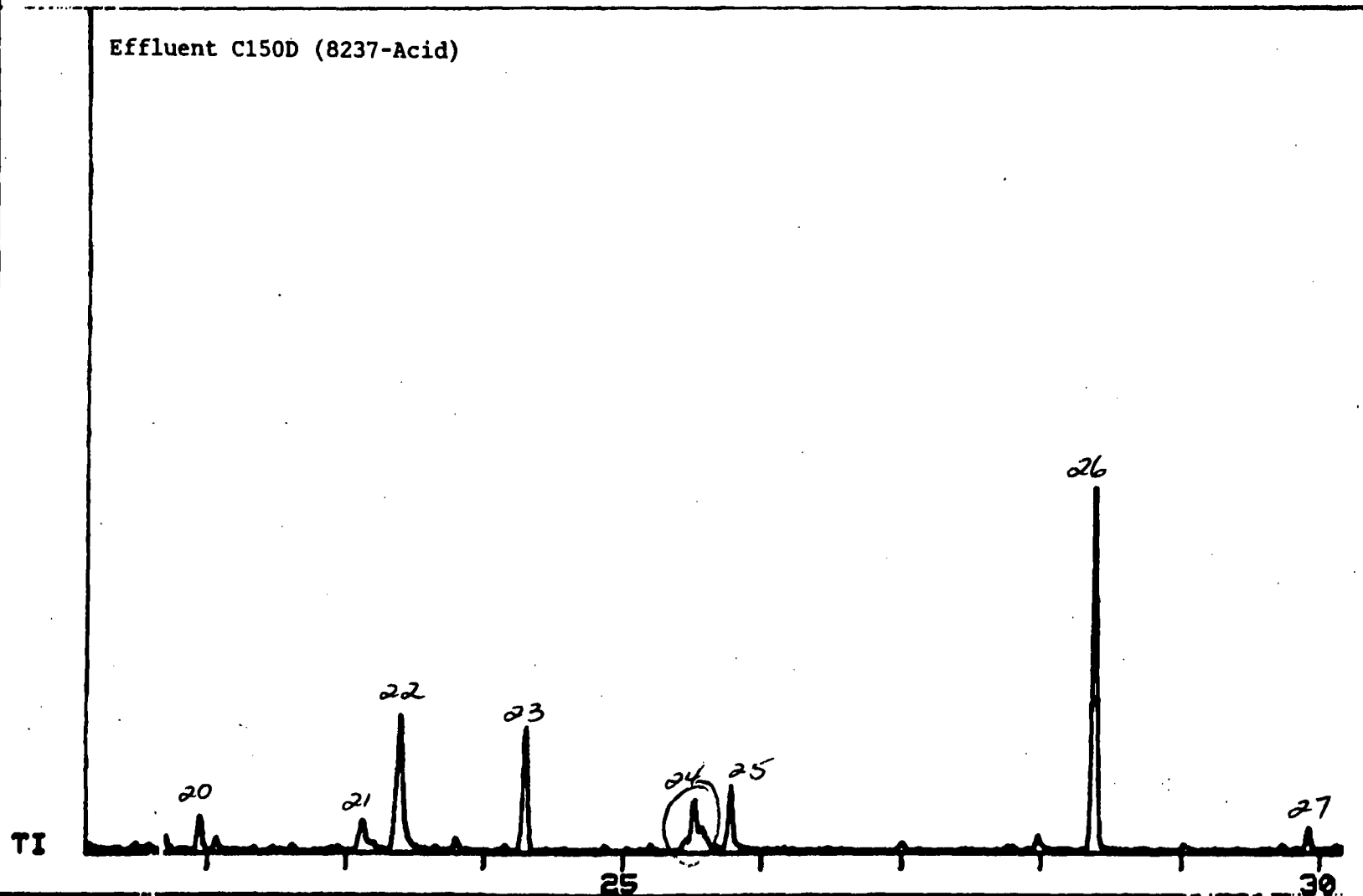


Figure G-7 (continued)

** BATCH PROCESSOR RECONSTRUCT **
1 UL 100/100 D10 + 8237 ANP3 (C150D) 8/12/81 BMH
50(4)-280(8) BTL#17 D13106

FRN 13106
1ST SC/PG:2797
X= .25 Y= 1.00

Effluent C150D (8237-Acid)

TI

35

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Figure G-7 (continued)

** BATCH PROCESSOR RECONSTRUCT **
1 UL 125/125 D10 + 8237-BNP3 (C150D) 8/13/81 BMH
50(4)-280(8) BTL#20 D13133

FRN 13133
1ST SC/PG: 1
X= .25 Y= 1.00

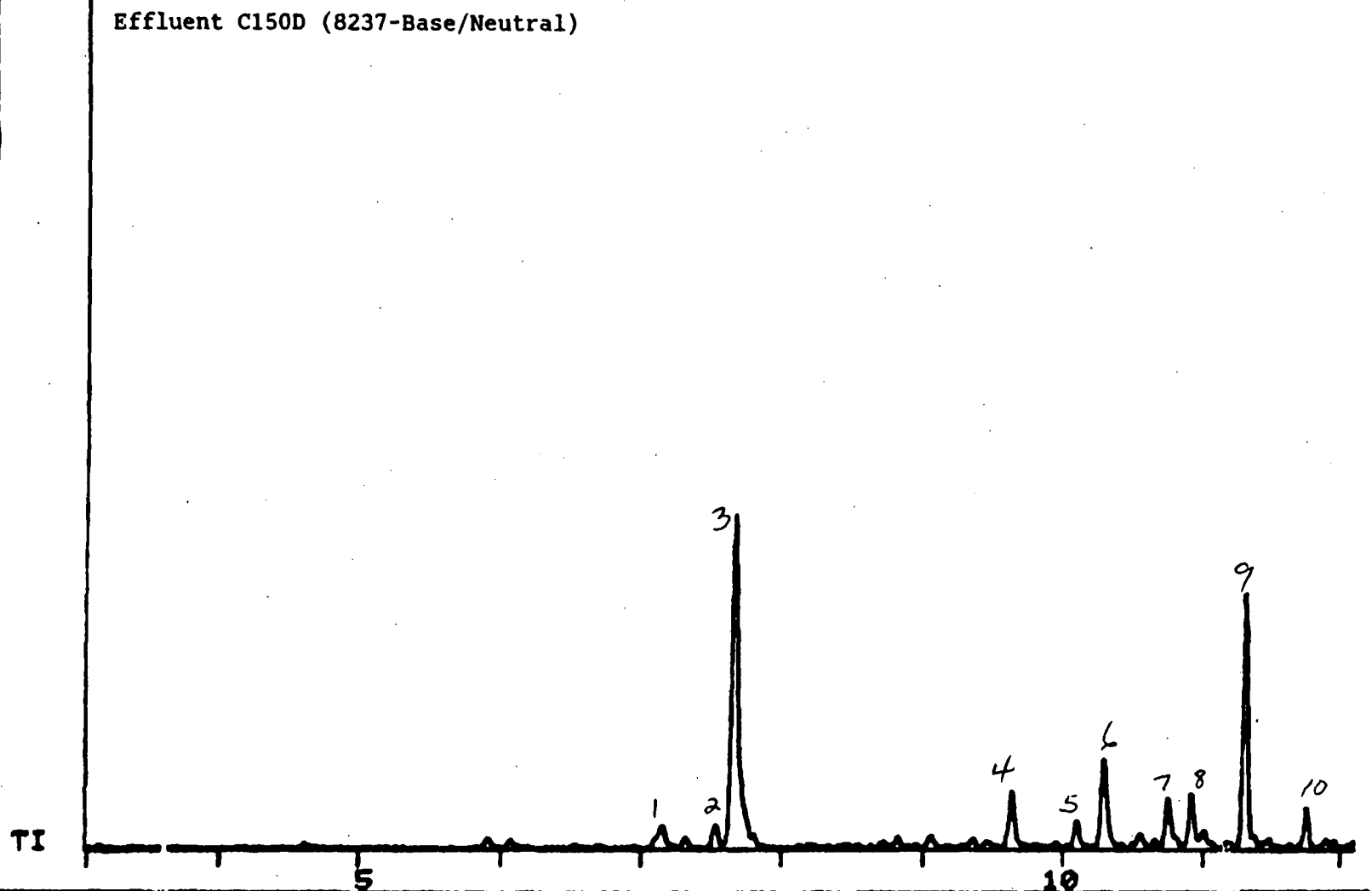


Figure G-8. Total ion chromatogram from GC/MS analysis of extractable organics base/neutral fraction from effluent C150D.

** BATCH PROCESSOR RECONSTRUCT **
1 UL 125/125 D10 + 8237-BNP3 (C150D) 8/13/81 BMH
50(4)-280(8) BTL#20 D13133

FRN 13133
1ST SC/PG: 933
X= .25 Y= 1.00

Effluent C150D (8237-Base/Neutral)

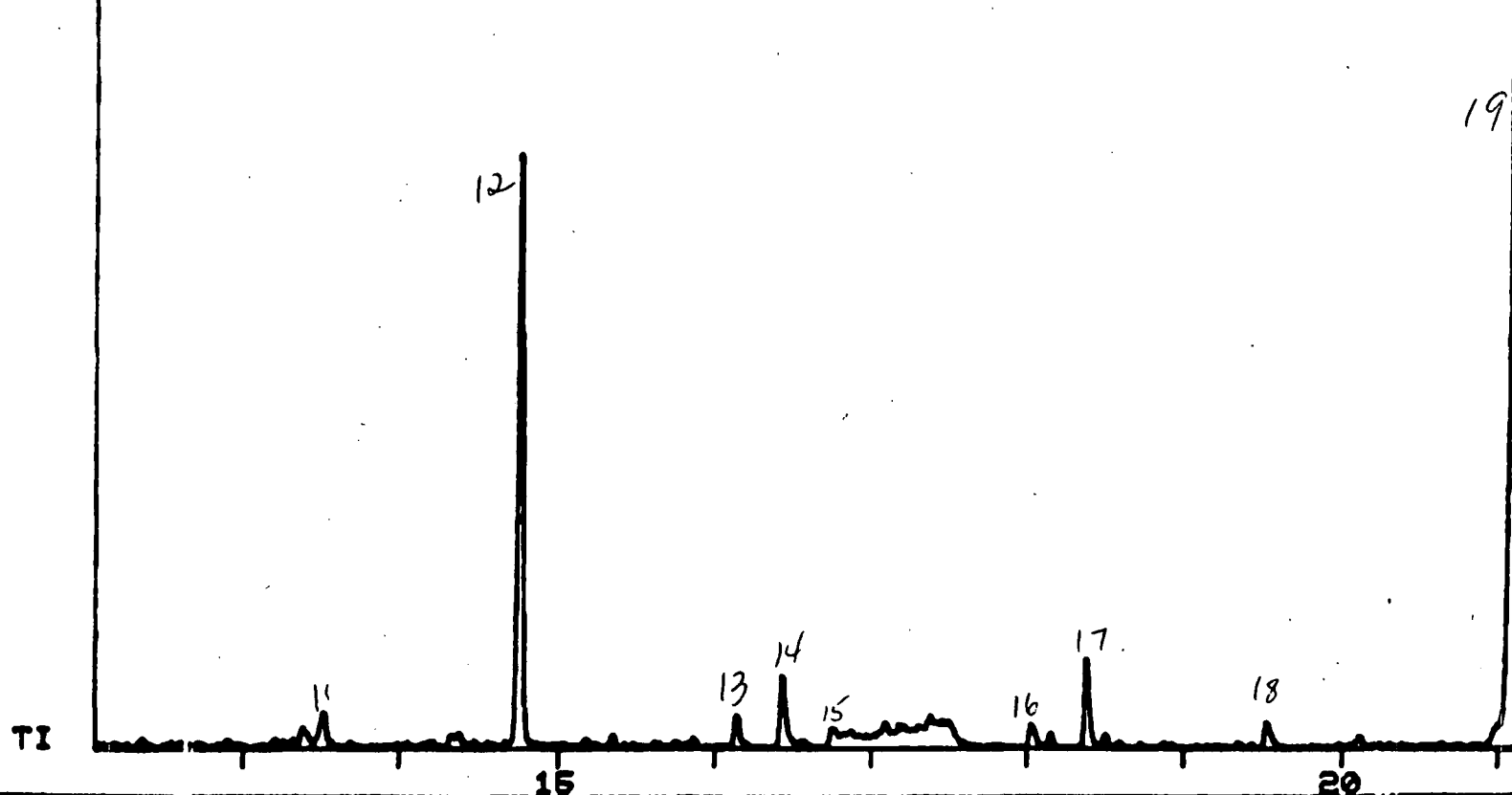


Figure G-8 (continued)

** BATCH PROCESSOR RECONSTRUCT **
1 UL 125/125 D10 + 8237-BNP3 (C150D) 8/13/81 BMH
50(4)-280(8) BTL#20

FRN 13133
1ST SC/PG:1865
X= .25 Y= 1.00

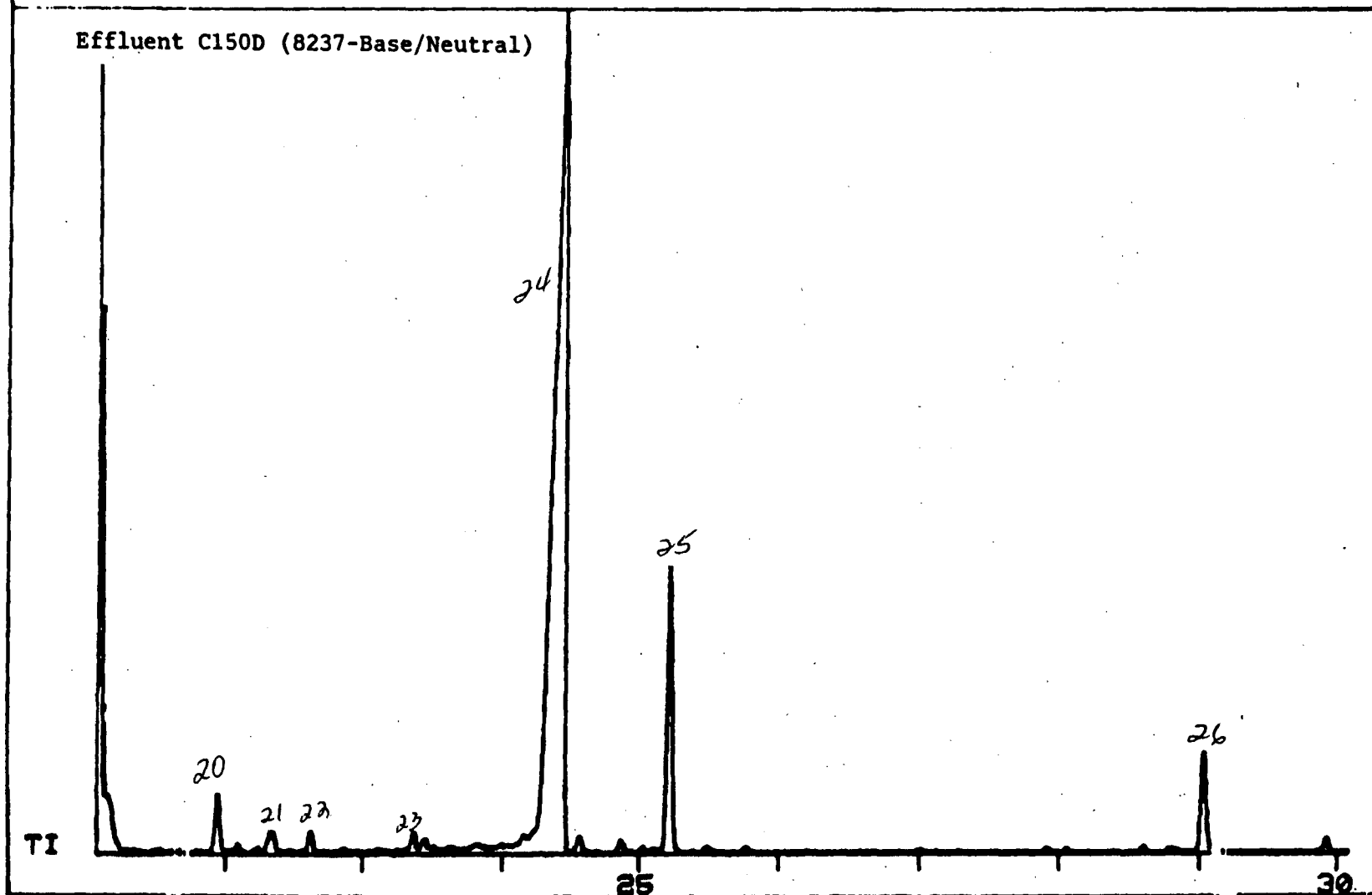


Figure G-8 (continued)

** BATCH PROCESSOR RECONSTRUCT **
1 UL 125/125 D10 + 8237-BNP3 (C150D) 8/13/81 BMH
50(4)-280(8) BTL#20 D13133

FRN 13133
1ST SC/PG:2797
X= .25 Y= 1.00

Effluent C150D (8237-Base/Neutral)

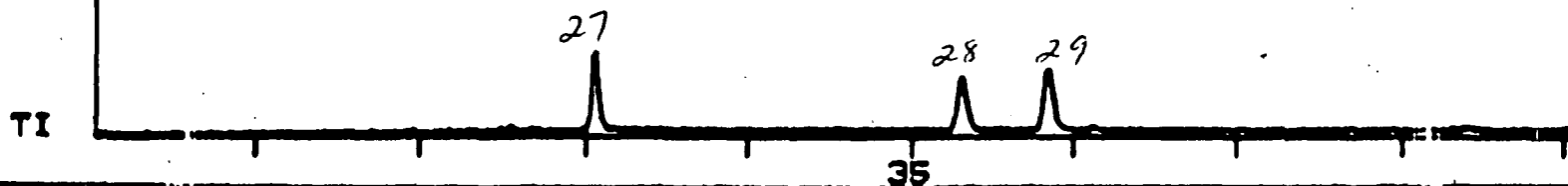


Figure G-8 (continued)

** BATCH PROCESSOR RECONSTRUCT **
1 UL 100/100 D10 + 8230 ANP3 (C155D) 8/12/81 BMH
50(4)-280(8) BTL#15 D13104

FRN 13104
1ST SC/PG: 1
X= .25 Y= 1.00

Effluent C155D (8230-Acid)

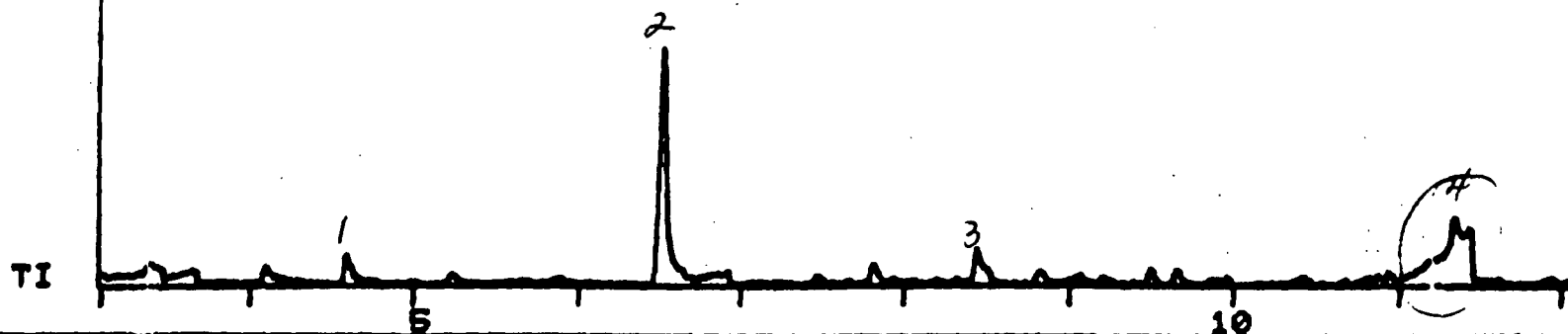


Figure G-9. Total ion chromatogram from GC/MS analysis of extractable organics acid fraction from effluent C155D.

** BATCH PROCESSOR RECONSTRUCT **
1 UL 100/100 D10 + 8230 ANP3 (C155D) 8/12/81 BMH
50(4)-280(8) BTL#15 D13104

FRN 13104
1ST SC/PG: 933
X= .25 Y= 1.00

Effluent C155D (8230-Acid)

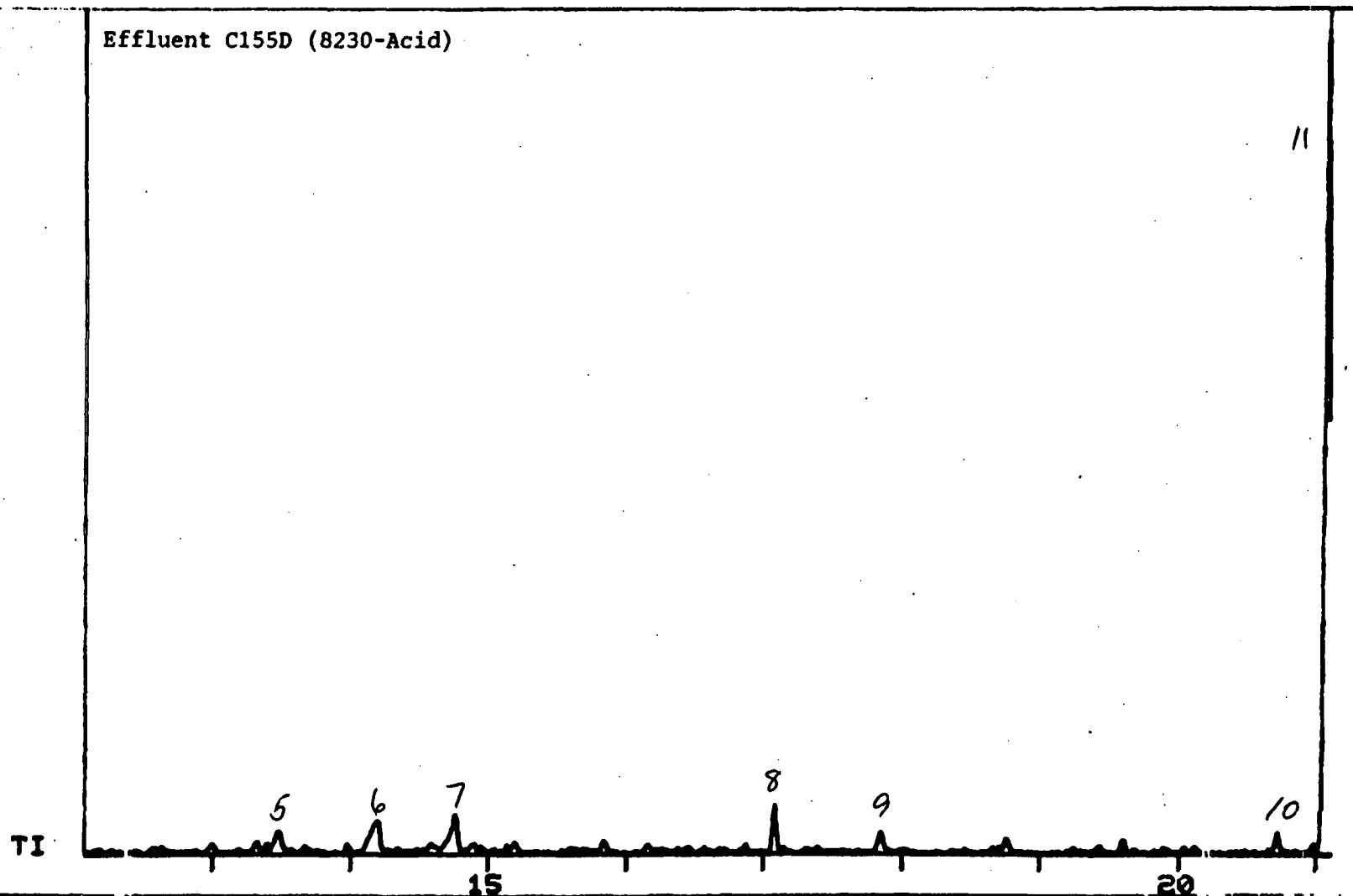


Figure G-9 (continued)

G-31

** BATCH PROCESSOR RECONSTRUCT **
1 UL 100/100 D10 + 8230 ANP3 (C155D) 8/12/81 BMH
50(4)-280(8) BTL#15

FRN 13104
1ST SC/PQ:1865
X= .25 Y= 1.00

Effluent C155D (8230-Acid)



Figure G-9 (continued)

** BATCH PROCESSOR RECONSTRUCT **
1 UL 125/125 D10 + 8230-BNP3 (C155D) 8/13/81 BMH
50(4)-280(8) BTL#18

D13131

FRN 13131
1ST SC/PG: 1
X= .25 Y= 1.00

Effluent C155D (8230-Base/Neutral)

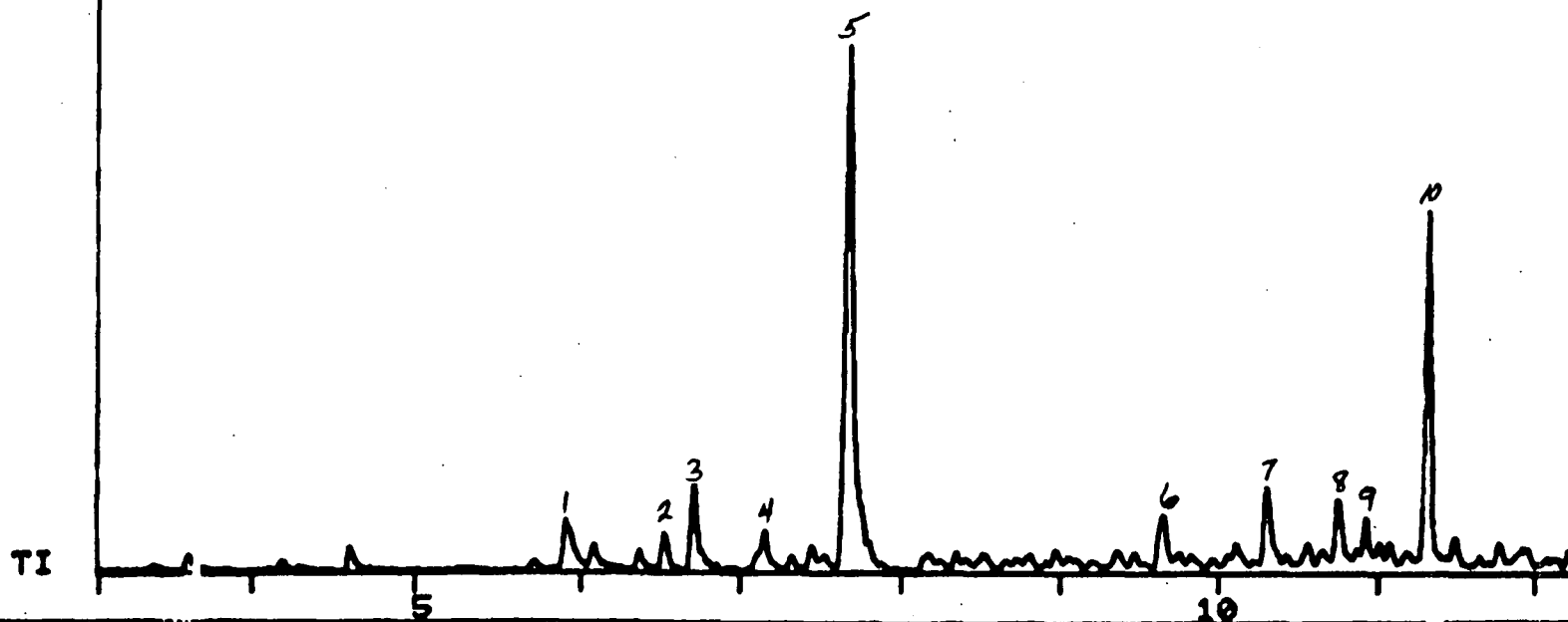


Figure G-10. Total ion chromatogram from GC/MS analysis of extractable organics base/neutral fraction from effluent C155D.

** BATCH PROCESSOR RECONSTRUCT **
1 UL 125/125 D10 + 8230-BNP3 (C155D) 8/13/81 BMH
50(4)-280(8) BTL#18

FRN 13131
1ST SC/PG: 933
X= .25 Y= 1.00

Effluent C155D (8230-Base/Neutral)

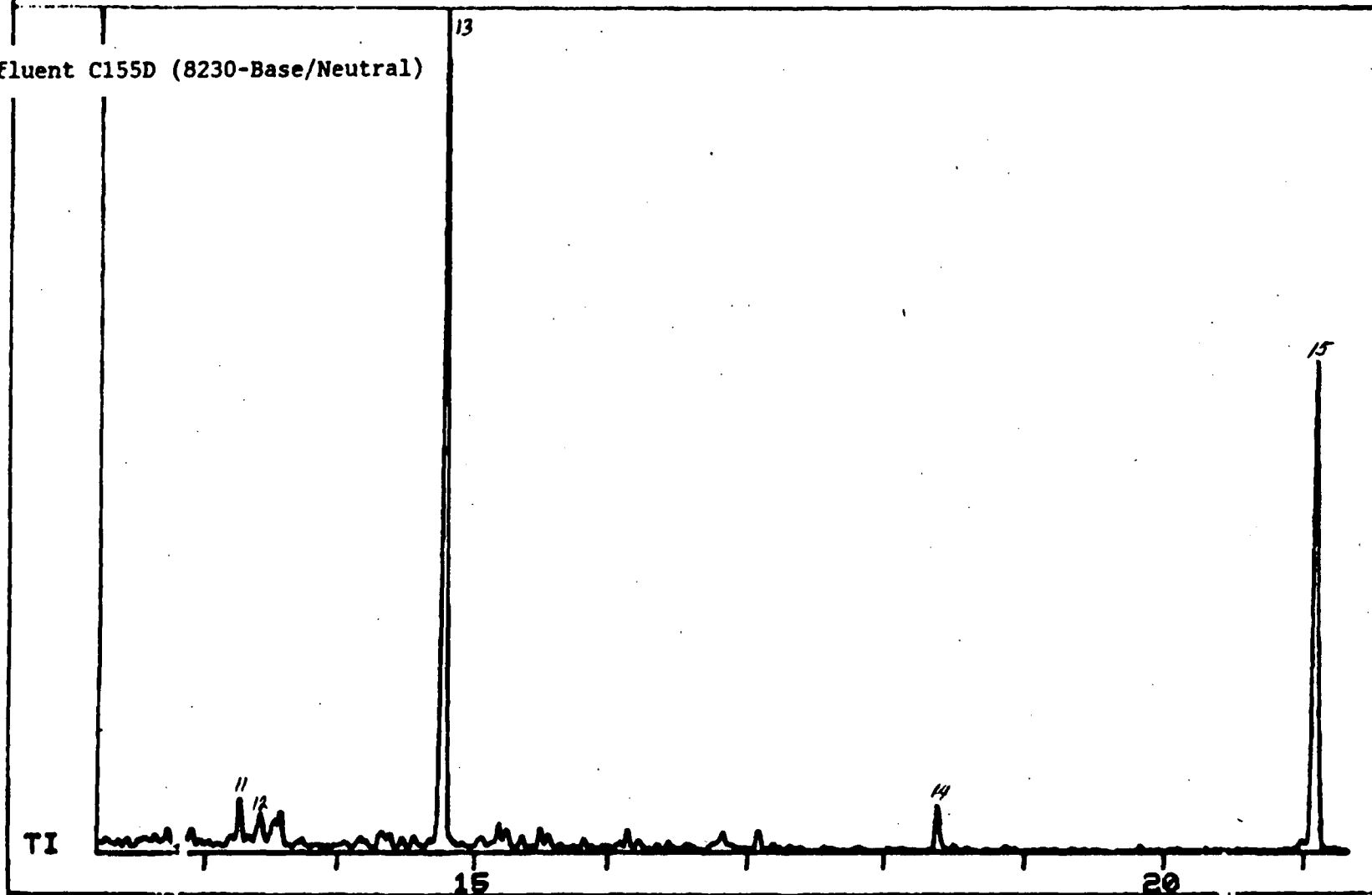


Figure G-10 (continued)

G-34

** BATCH PROCESSOR RECONSTRUCT **
1 UL 125/125 D10 + 8230-BNP3 (C155D) 8/13/81 BMH
50(4)-280(8) BTL#18 D13131

FRN 13131
1ST SC/PQ:1865
X= .25 Y= 1.00

Effluent C155D (8230-Base/Neutral)

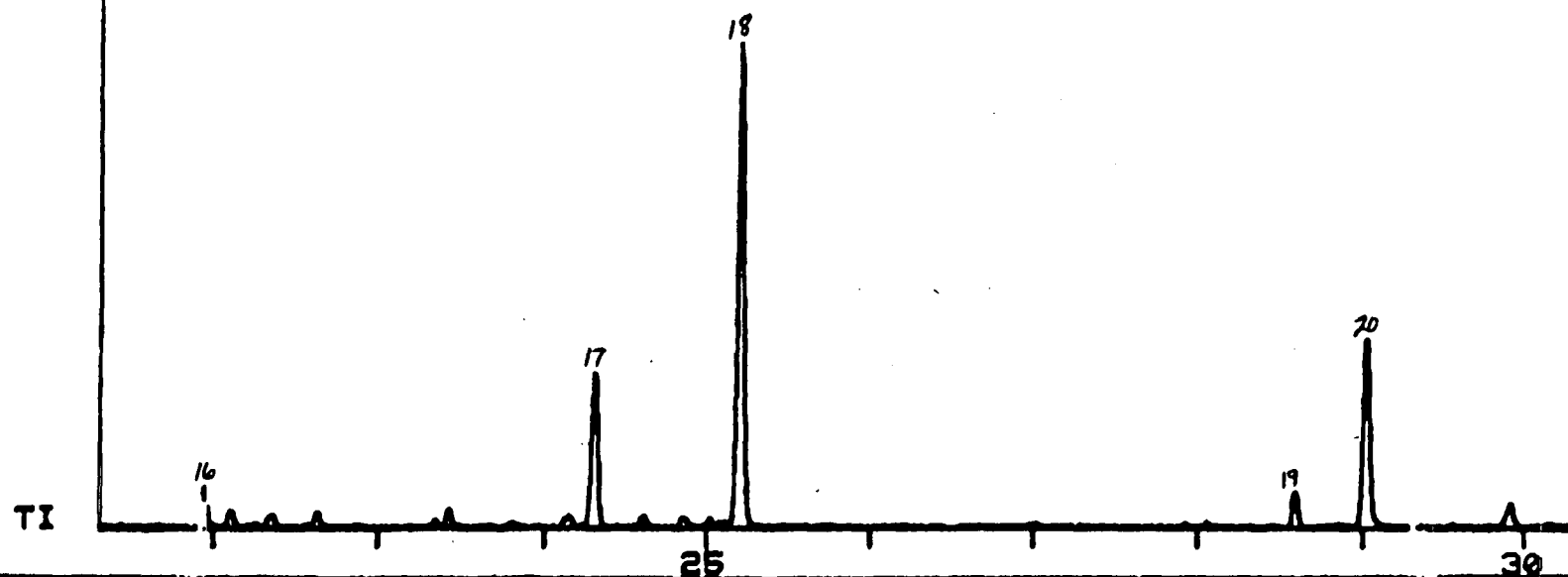


Figure G-10 (continued)

** BATCH PROCESSOR RECONSTRUCT **
1 UL 125/125 D10 + 8230-BNP3 (C155D) 8/13/81 BMH
50(4)-280(8) BTL#18 D13131

FRN 13131
1ST SC/PG:2797
X= .25 Y= 1.00

Effluent C155D (8230-Base/Neutral)

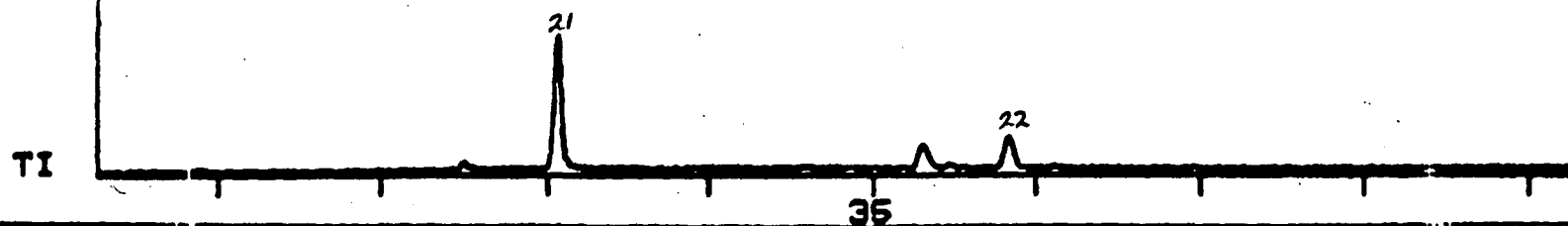


Figure G-10 (continued)

** BATCH PROCESSOR RECONSTRUCT **
1 UL 100/100 D10 + 8238 ANP3 (C156D) 8/12/81 BMH
50(4)-280(8) BTL#18 D13107

FRN 13107
1ST SC/PG: 1
X= .25 Y= 1.00

Effluent C156D (8238-Acid)

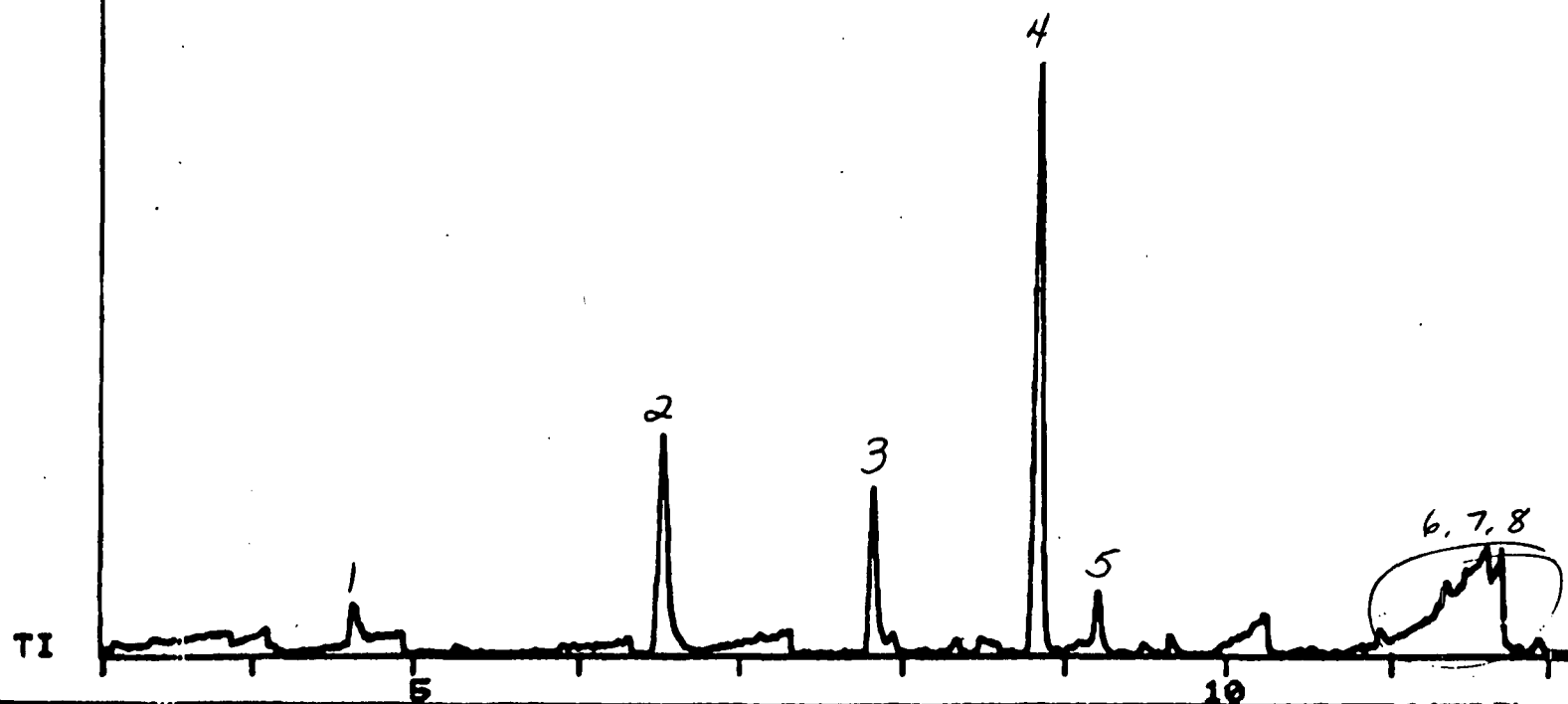


Figure G-11. Total ion chromatogram from GC/MS analysis of extractable organics acid fraction from effluent C156D.

** BATCH PROCESSOR RECONSTRUCT **
1 UL 100/100 D10 + 8238 ANP3 (C156D) 8/12/81 BMH
50(4)-280(8) BTL#18 D13107

FRN 13107
1ST SC/PG: 933
X= .25 Y= 1.00

Effluent C156D (8238-Acid)

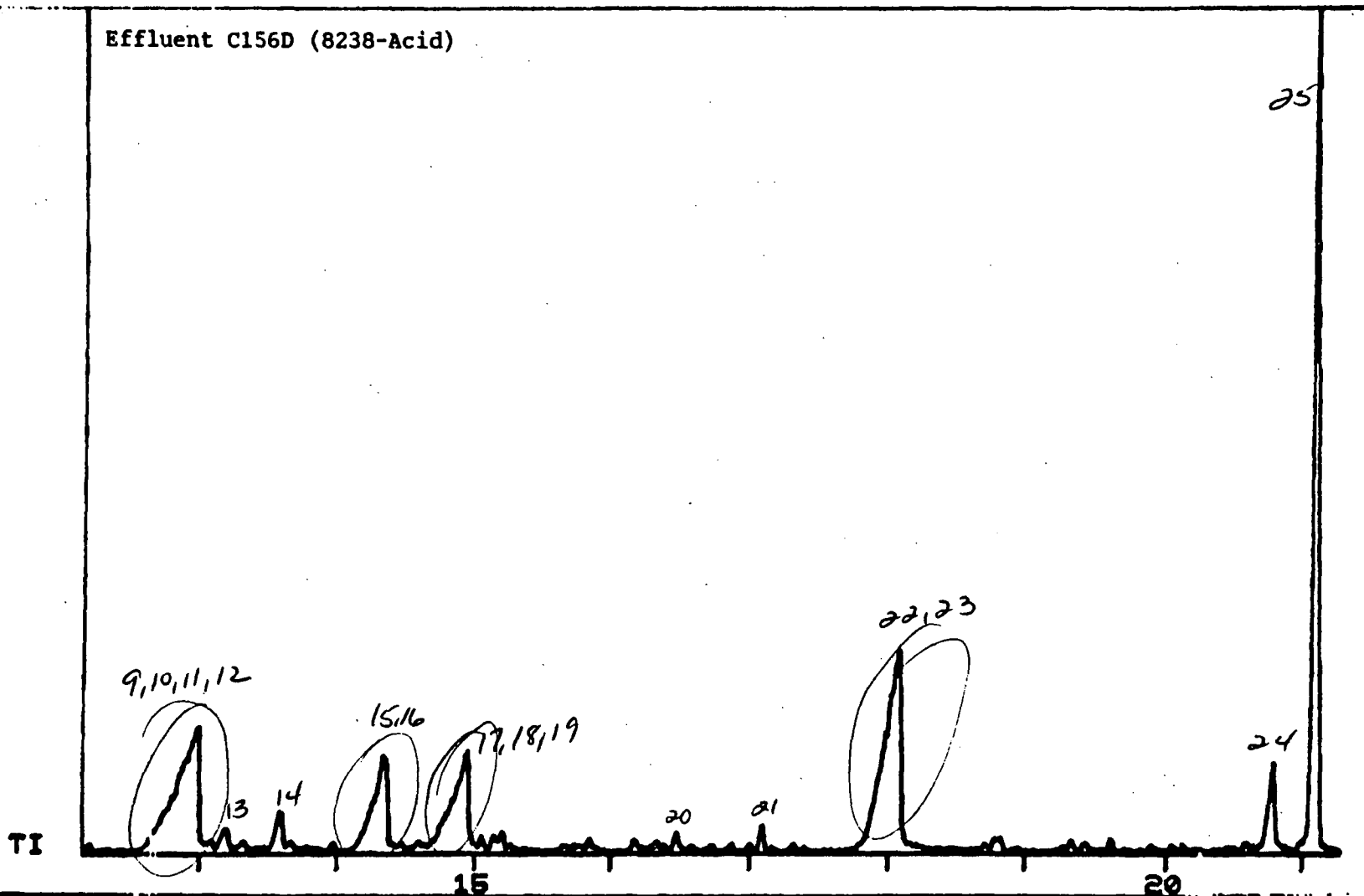


Figure G-11 (continued)

** BATCH PROCESSOR RECONSTRUCT **
1 UL 100/100 D10 + 8238 ANP3 (C156D) 8/12/81 BMH
50(4)-280(8) BTL#18 D13107

FRN 13107
1ST SC/PG:1865
X= .25 Y= 1.00

Effluent C156D (8238-Acid)

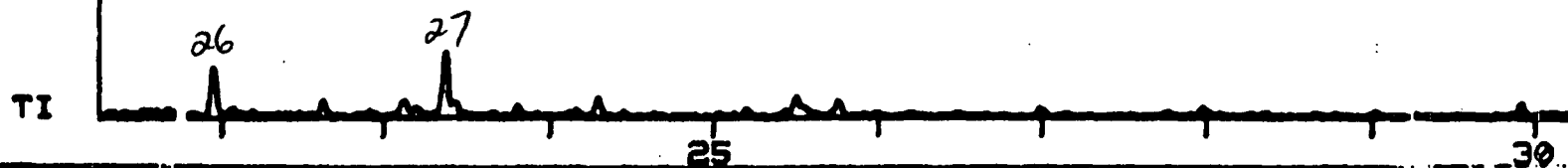


Figure G-11 (continued)

** BATCH PROCESSOR RECONSTRUCT **
1 UL 125/125 D10 + 8238-BNP3 (C156D) 8/13/81 BMH
50(4)-280(8) BTL#21 D13134

FRN 13134
1ST SC/PG: 1
X= .25 Y= 1.00

Effluent C156D (8238-Base/Neutral)

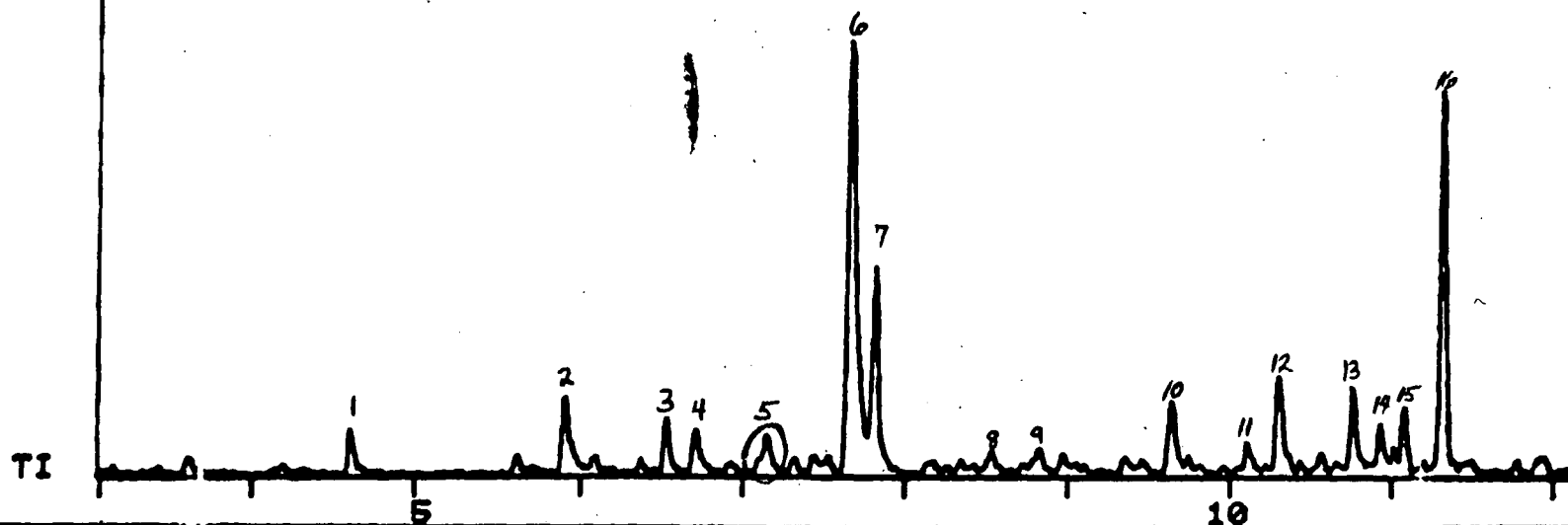


Figure G-12. Total ion chromatogram from GC/MS analysis of extractable organics base/neutral fraction from effluent C156D.

** BATCH PROCESSOR RECONSTRUCT **
1 UL 125/125 D10 + 8238-BNP3 (C156D) 8/13/81 BMH
50(4)-280(8) BTL#21 D13134

FRN 13134
1ST SC/PG: 933
X= .25 Y= 1.00

Effluent C156D (8238-Base/Neutral)

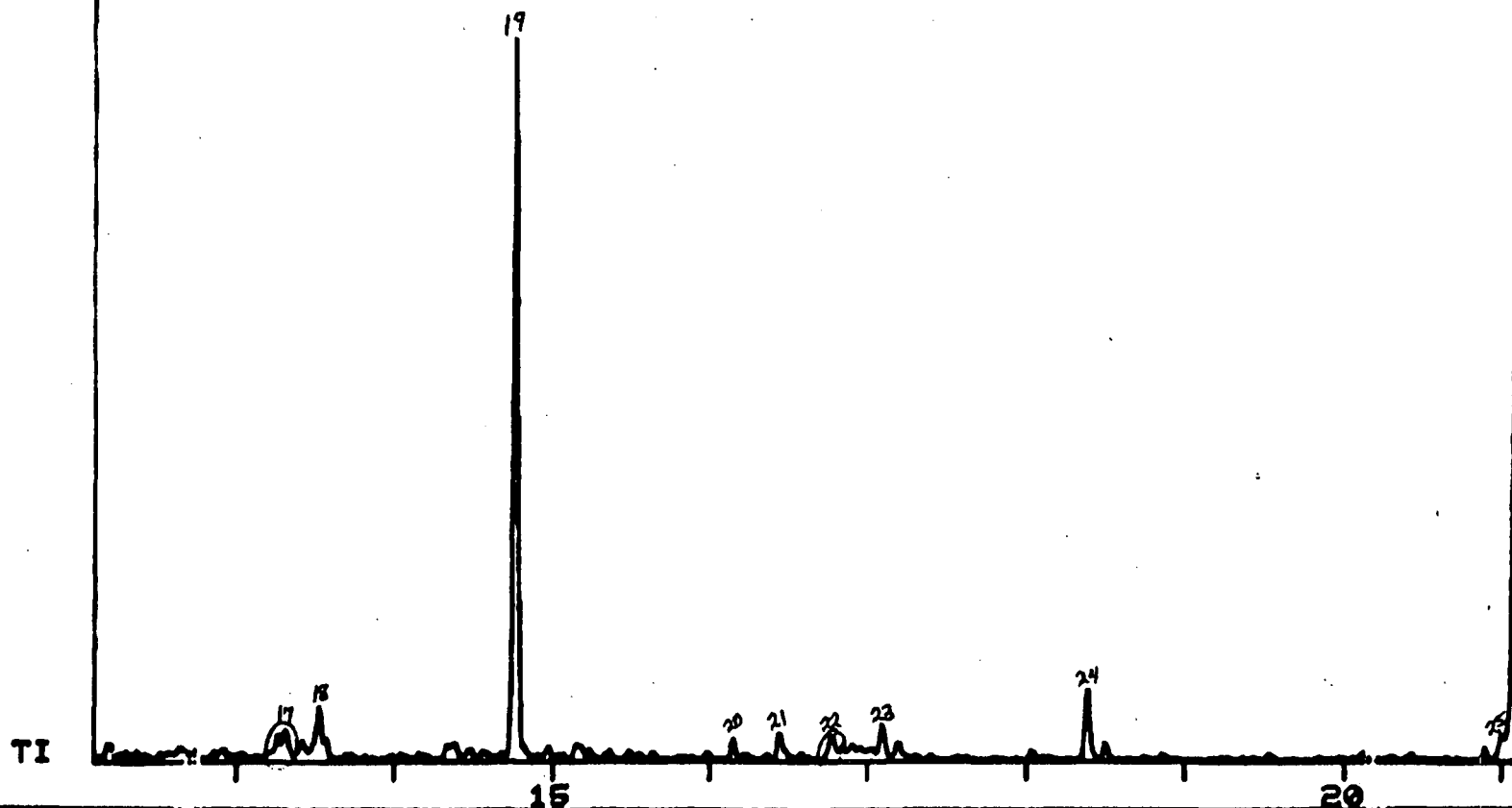


Figure G-12 (continued)

G-41

** BATCH PROCESSOR RECONSTRUCT **
1 UL 125/125 D10 + 8238-BNP3 (C156D) 8/13/81 BMH
50(4)-280(8) BTL#21 D13134

FRN 13134
1ST SC/PG:1865
X= .25 Y= 1.00

Effluent C156D (8238-Base/Neutral)

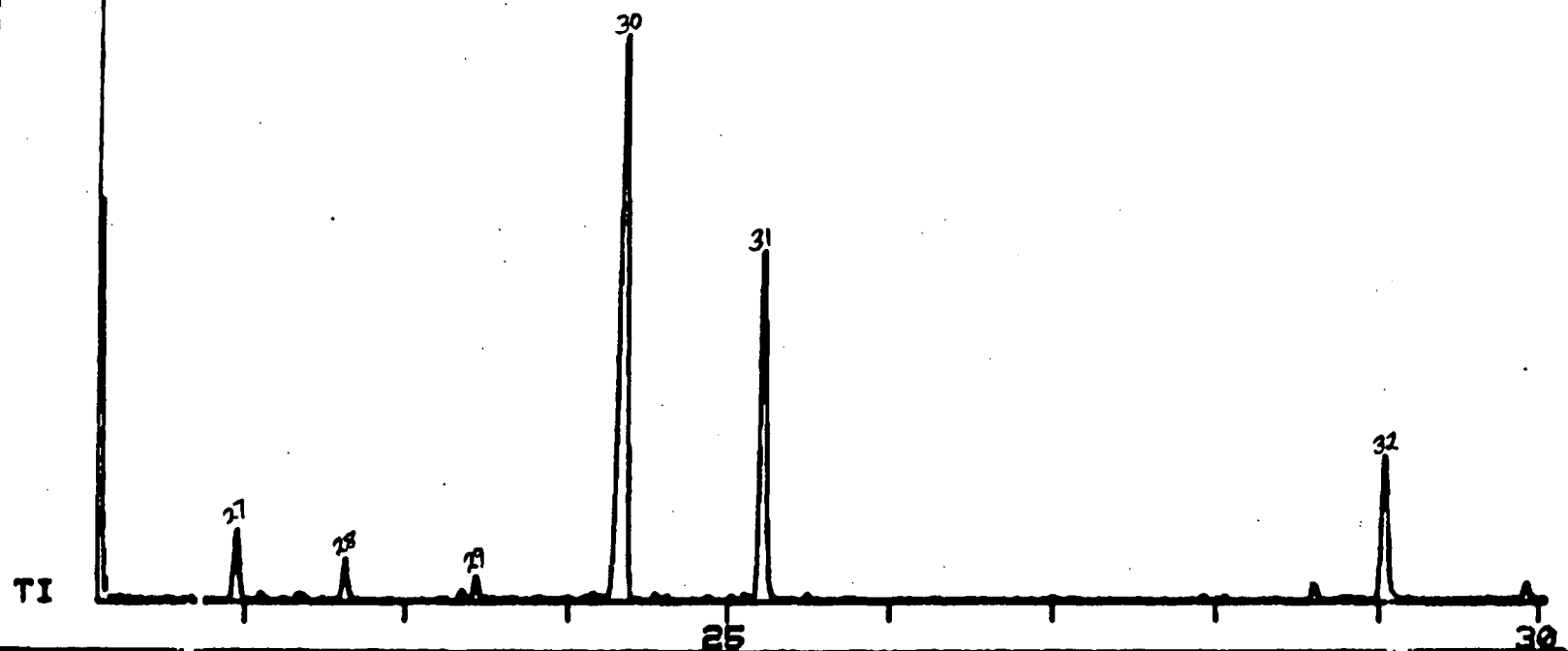


Figure G-12 (continued)

G-42

** BATCH PROCESSOR RECONSTRUCT **
1 UL 125/125 D10 + 8238-BNP3 (C156D) 8/13/81 BMH
50(4)-280(8) BTL#21 D13134

FRN 13134
1ST SC/PG:2797
X= .25 Y= 1.00

Effluent C156D (8238-Base/Neutral)

TI

33

34

35

Figure G-12 (continued)

G-43

** BATCH PROCESSOR RECONSTRUCT **
1 UL 100/100 D10 + 8211 ANP3 (C157D) 8/12/81 BMH
50(4)-280(8) BTL#10 D13099

FRN 13099
1ST SC/PG: 1
X= .25 Y= 1.00

Effluent C157D (8211-Acid)

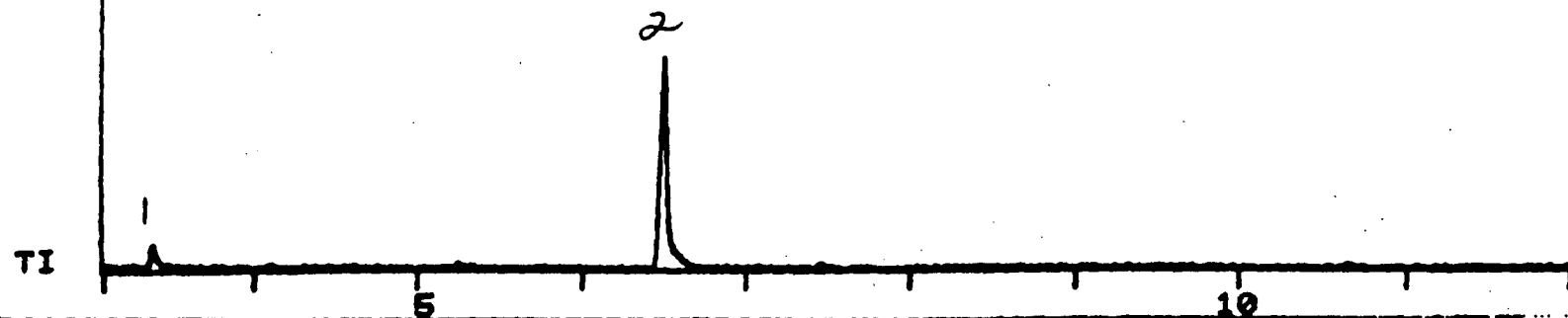


Figure G-13. Total ion chromatogram from GC/MS analysis of extractable organics acid fraction from effluent C157D.

** BATCH PROCESSOR RECONSTRUCT **
1 UL 100/100 D10 + 8211 ANP3 (C157D) 8/12/81 BMH
50(4)-280(8) BTL#10 D13099

FRN 13099
1ST SC/PG: 933
X= .25 Y= 1.00

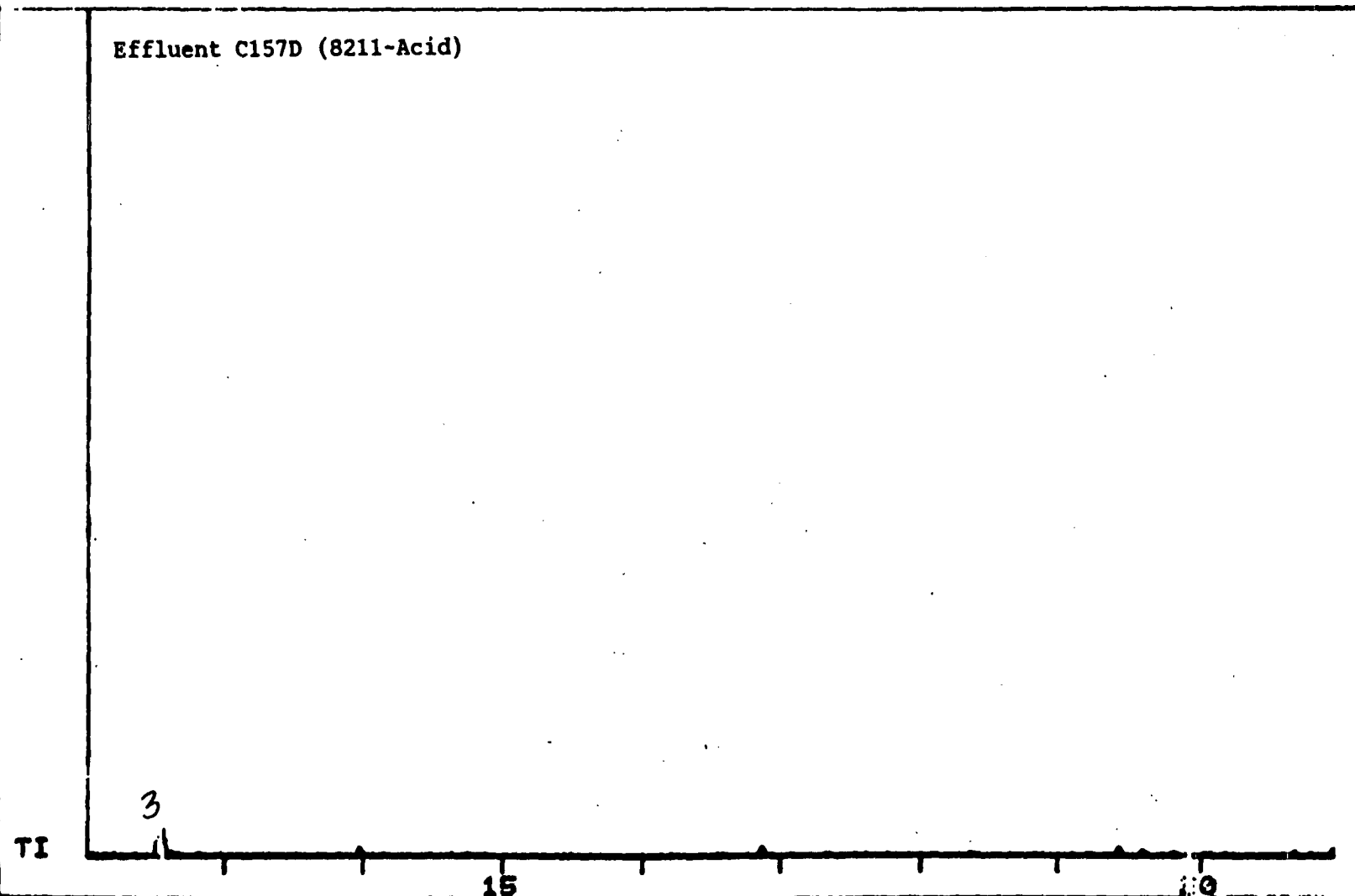


Figure G-13 (continued)

1 UL 100/100 D10 + 8211 ANP3 (C157D) 8/12/81 BMH
50(4)-280(8) BTL*10

** BATCH PROCESSOR RECONSTRUCT **

D13099

FRN 13099

1ST SC/PG:1865

X= .25 Y= 1.00

Effluent C157D (8211-Acid)

4

TI

25

Figure G-13 (continued)

** BATCH PROCESSOR RECONSTRUCT **
1 UL 100/100 D10 + 8211 ANP3 (C157D) 8/12/81 BMH
50(4)-280(8) BTL#10 D13099

FRN 13099
1ST SC/PG:2797
X= .25 Y= 1.00

Effluent C157D (8211-Acid)

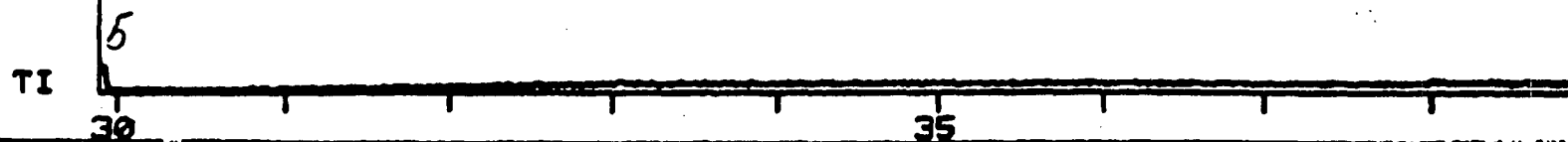


Figure G-13 (continued)

** BATCH PROCESSOR RECONSTRUCT **
1 UL 125/125 D10 + 8211-BNP3 (C157D) 8/13/81 BMH
50(4)-280(8) BTL#13 D13126
FRN 13126
1ST SC/PG: 1
X= .25 Y= 1.00

Effluent C157D (8211-Base/Neutral)

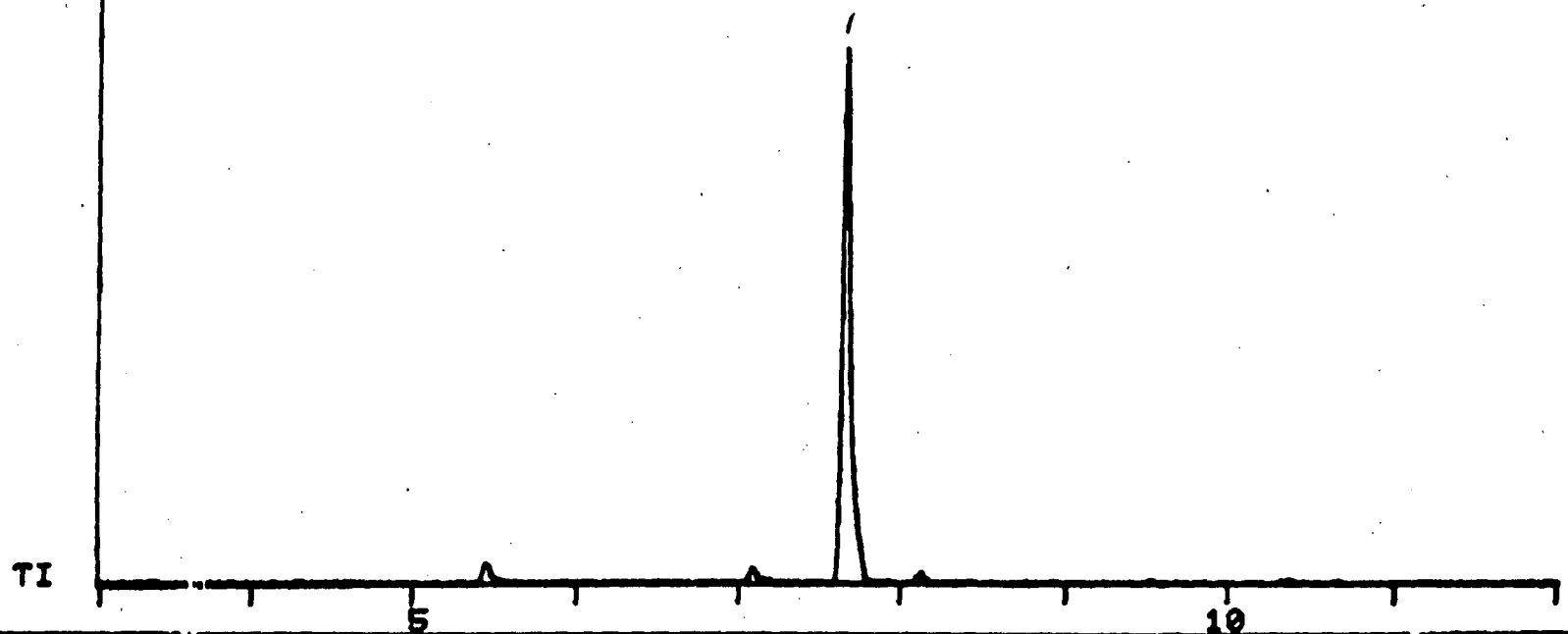


Figure G-14. Total ion chromatogram from GC/MS analysis of extractable organics base/neutral fraction from effluent C157D.

** BATCH PROCESSOR RECONSTRUCT **
1 UL 125/125 D10 + 8211-BNP3 (C157D) 8/13/81 BMH
50(4)-280(8) BTL#13 D13126

FRN 13126
1ST SC/PG: 933
X= .25 Y= 1.00

Effluent C157D (8211-Base/Neutral)

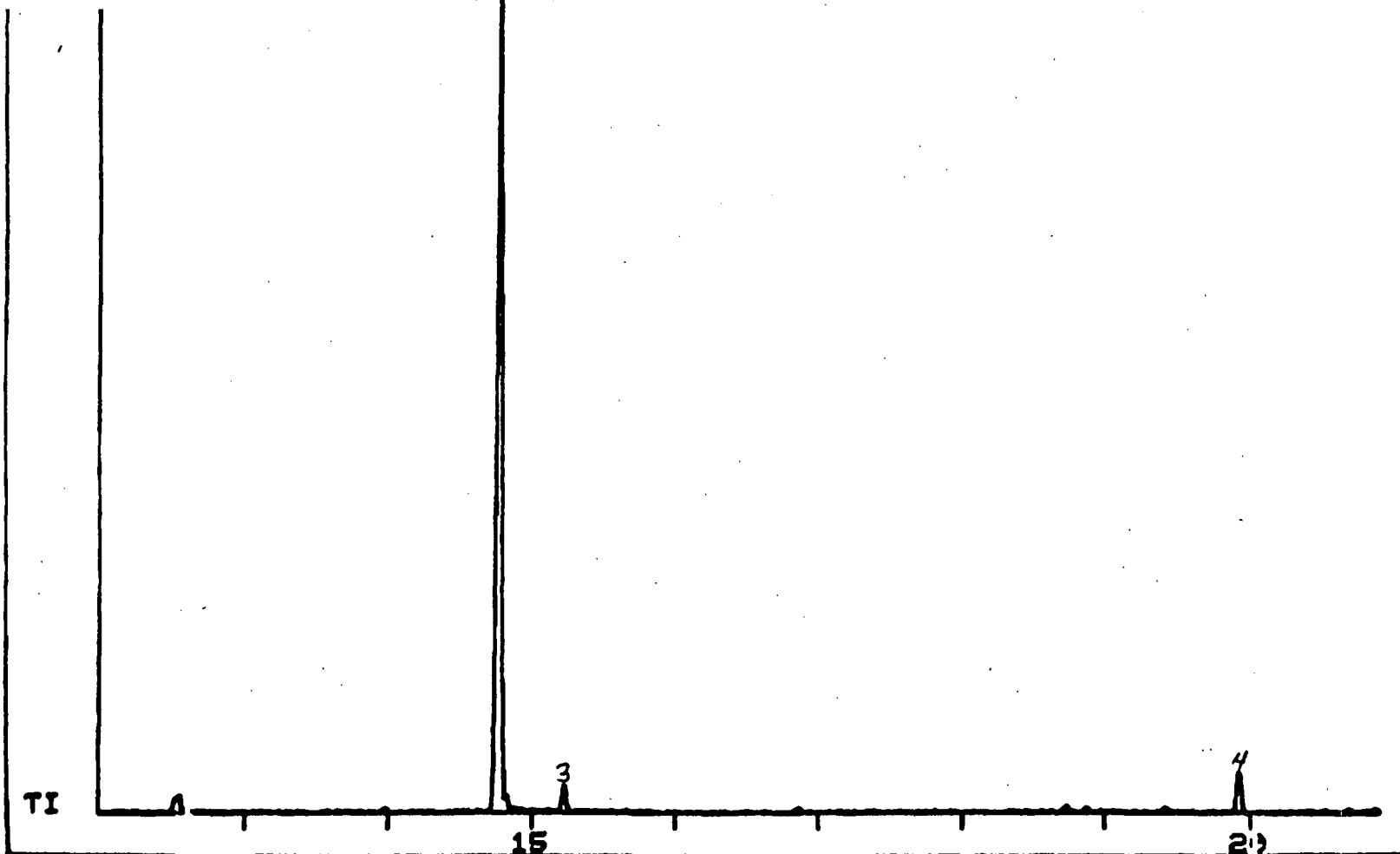


Figure G-14 (continued)

** BATCH PROCESSOR RECONSTRUCT **
1 UL 100/100 D10 + 8239 ANP3 (C161D) 8/12/81 BMH
53(4)-280(8) BTL#19 D13108

FRN 13108
1ST SC/PQ: 1
X= .25 Y= 1.00

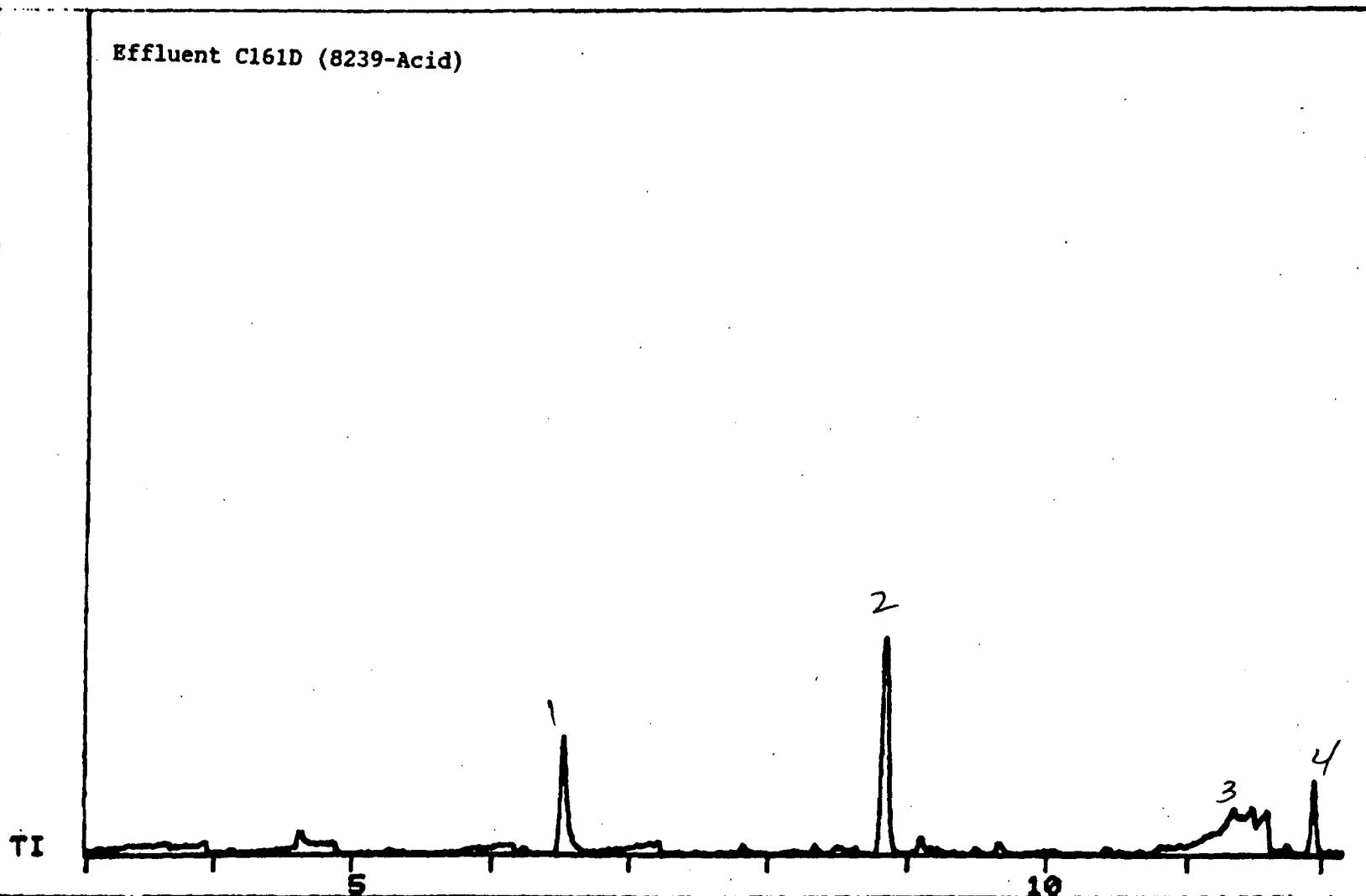


Figure G-15. Total ion chromatogram from GC/MS analysis of extractable organics acid fraction from effluent C161D.

** BATCH PROCESSOR RECONSTRUCT **
1 UL 100/100 D10 + 8239 ANP3 (C161D) 8/12/81 BMH
50(4)-280(8) BTL#19 D13108

FRN 13108
1ST SC/PG: 933
X= .25 Y= 1.00

Effluent C161D (8239-Acid)



Figure G-15 (continued)

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** BATCH PROCESSOR RECONSTRUCT **
1 UL 100/100 D10 + 8239 ANP3 (C161D) 8/12/81 BMH
50(4)-280(8) BTL#19 D13108

FRN 13108
1ST SC/PG:1865
X= .25 Y= 1.00

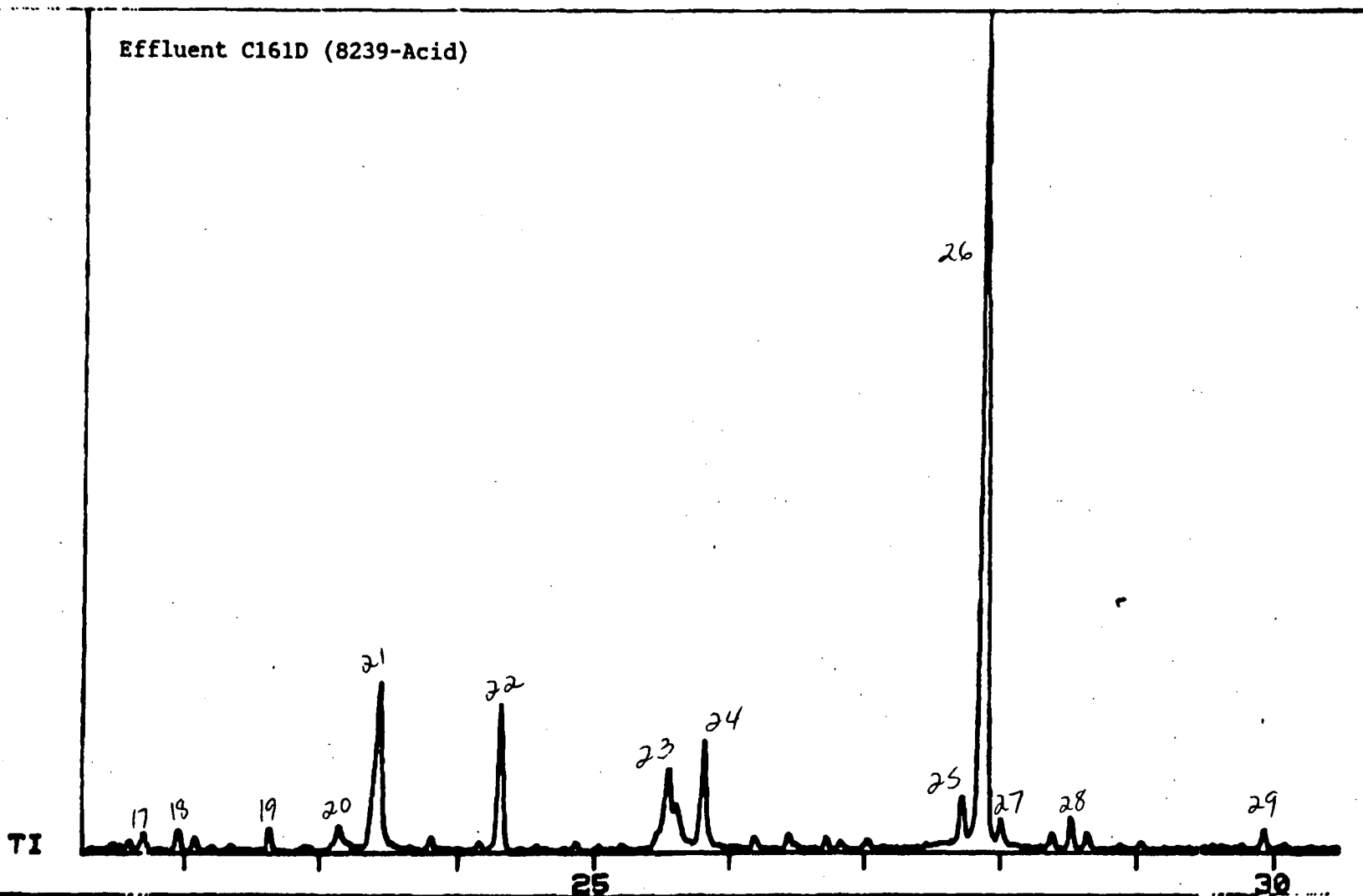


Figure G-15 (continued)

** BATCH PROCESSOR RECONSTRUCT **
1 UL 100/100 D10 + 8239 ANP3 (C161D) 8/12/81 BMH
50(4)-280(8) BTL#19 D13108

FRN 13108
1ST SC/PG:2797
X= .25 Y= 1.00

Effluent C161D (8239-Acid)



Figure G-15 (continued)

G-55

** BATCH PROCESSOR RECONSTRUCT **
1 UL 125/125 D10 + 8239-BNP3 (C161D) 8/13/81 BMH
50(4)-280(8) BTL#22 D13135

FRN 13135
1ST SC/PG: 1
X= .25 Y= 1.00

Effluent C161D (8239-Base/Neutral)

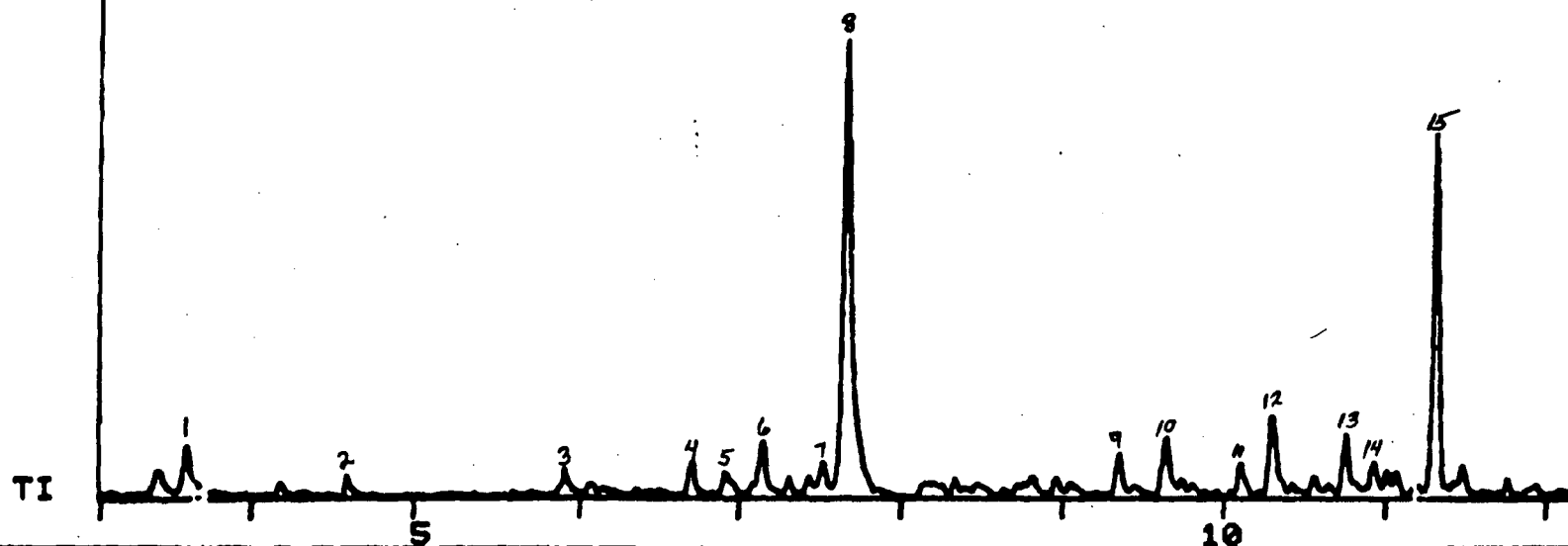


Figure G-16. Total ion chromatogram from GC/MS analysis of extractable organics base/neutral fraction from effluent C161D.

** BATCH PROCESSOR RECONSTRUCT **
1 UL 125/125 D10 + 8239-BNP3 (C161D) 8/13/81 BMH
50(4)-280(8) BTL#22 D13135

FRN 13135
1ST SC/PG: 933
X= .25 Y= 1.00

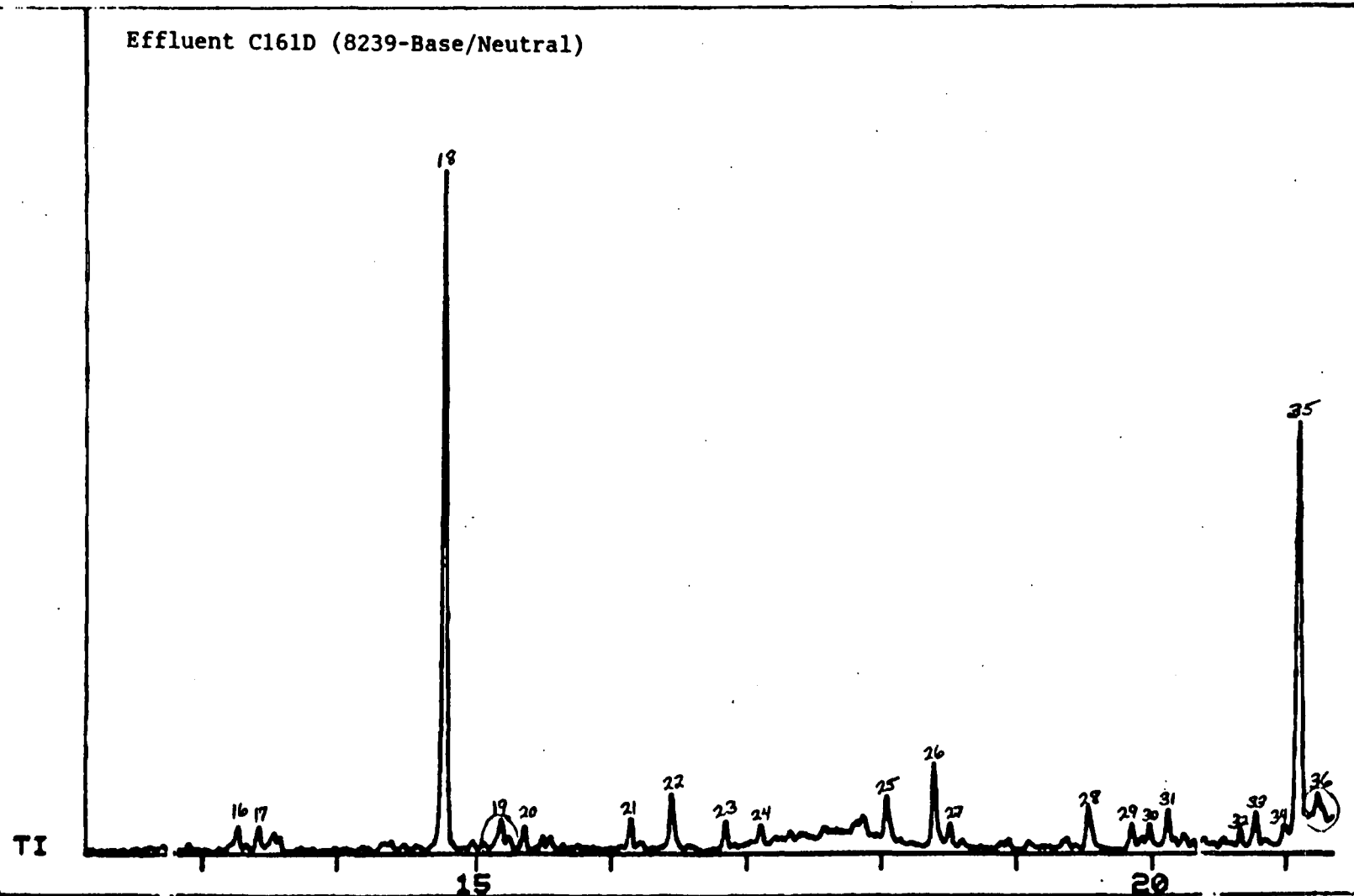


Figure G-16 (continued)

** BATCH PROCESSOR RECONSTRUCT **
1 UL 125/125 D10 + 8239-BNP3 (C161D) 8/13/81 BMH
50(4)-280(8) BTL#22

FRN 13135
1ST SC/PQ:1865
X= .25 Y= 1.00

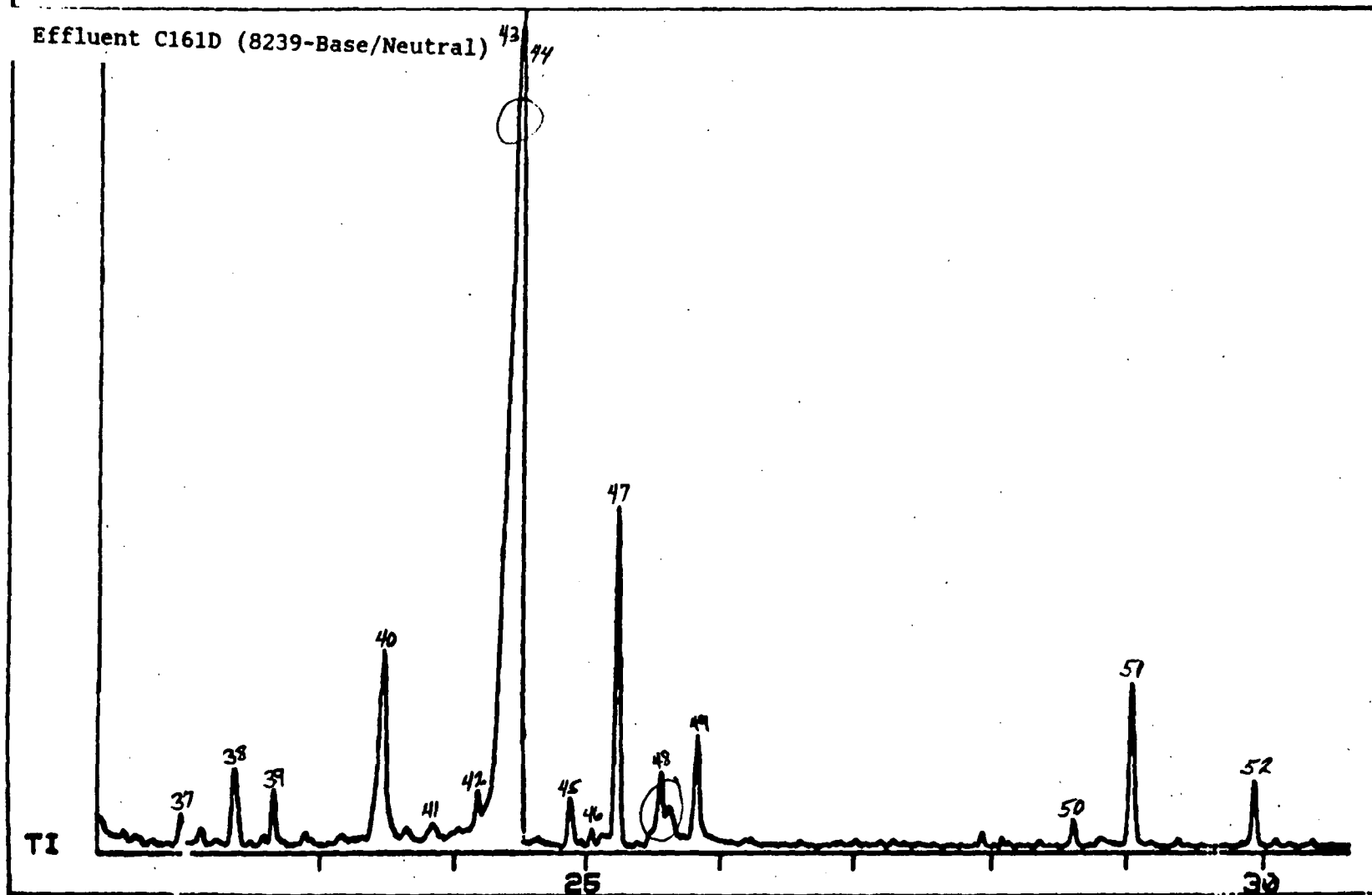


Figure G-16 (continued)

** BATCH PROCESSOR RECONSTRUCT **
1 UL 125/125 D10 + 8239-BNP3 (C161D) 8/13/81 BMH
50(4)-280(8) BTL#22

FRN 13135
1ST SC/PG:2797
X= .25 Y= 1.00

Effluent C161D (8239-Base/Neutral)

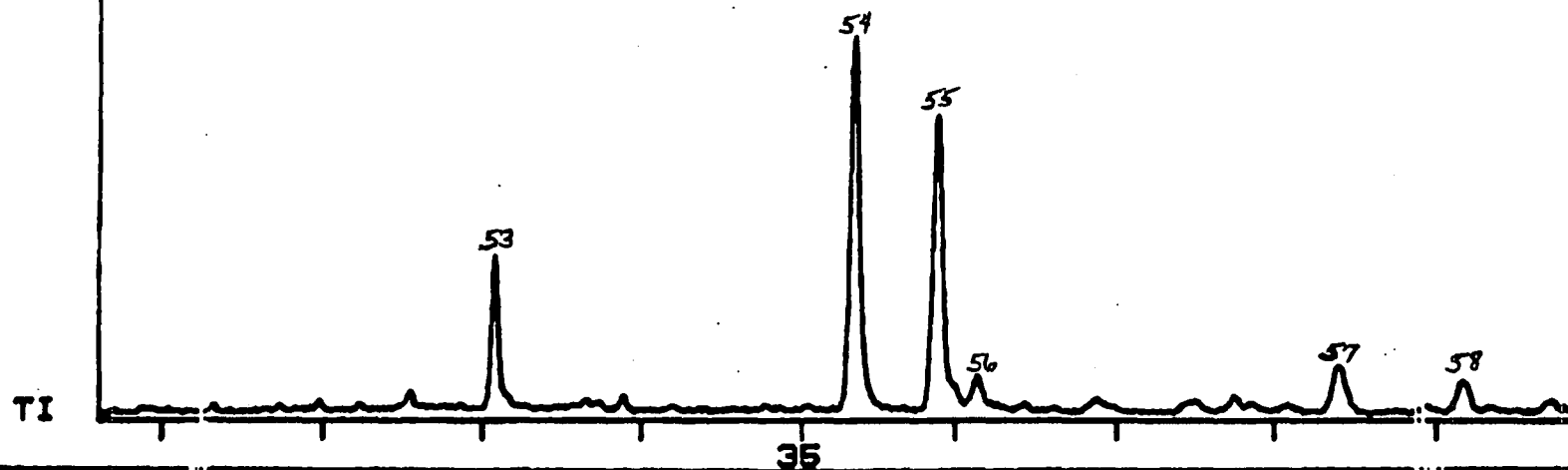


Figure G-16 (continued)

** BATCH PROCESSOR RECONSTRUCT **
1 UL 100/100 D10 + 8212 ANP3 (C164D) 8/12/81 BMH
50(4)-280(8) BTL#12 D13101

FRN 13101
1ST SC/PG: 1
X= .25 Y= 1.00

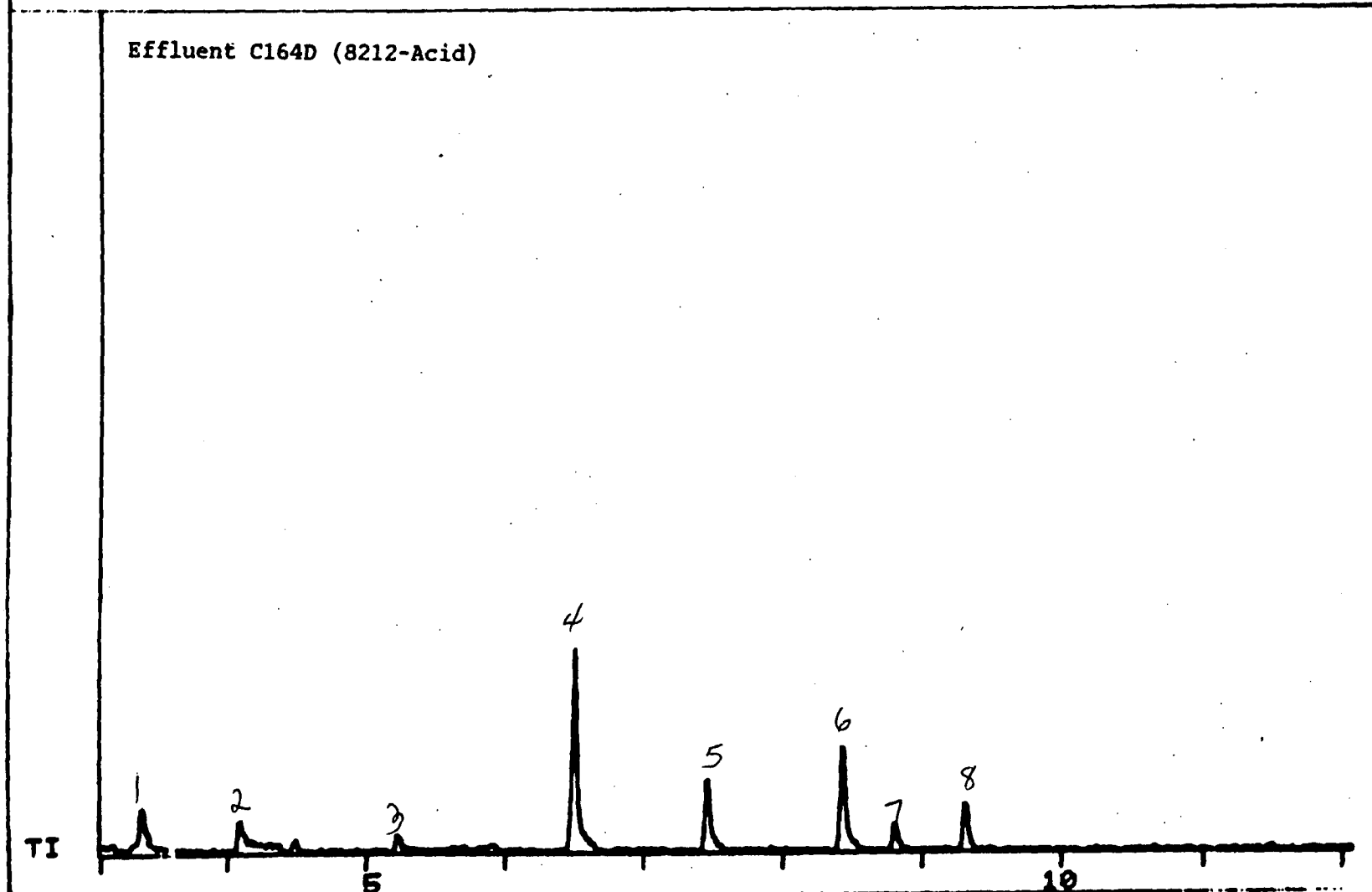


Figure G-17. Total ion chromatogram from GC/MS analysis of extractable organics acid fraction from effluent C164D.

** BATCH PROCESSOR RECONSTRUCT **
1 UL 100/100 D10 + 8212 ANP3 (C164D) 8/12/81 BMH
50(4)-280(8) BTL#12 D13101

FRN 13101
1ST SC/PG: 933
X= .25 Y= 1.00

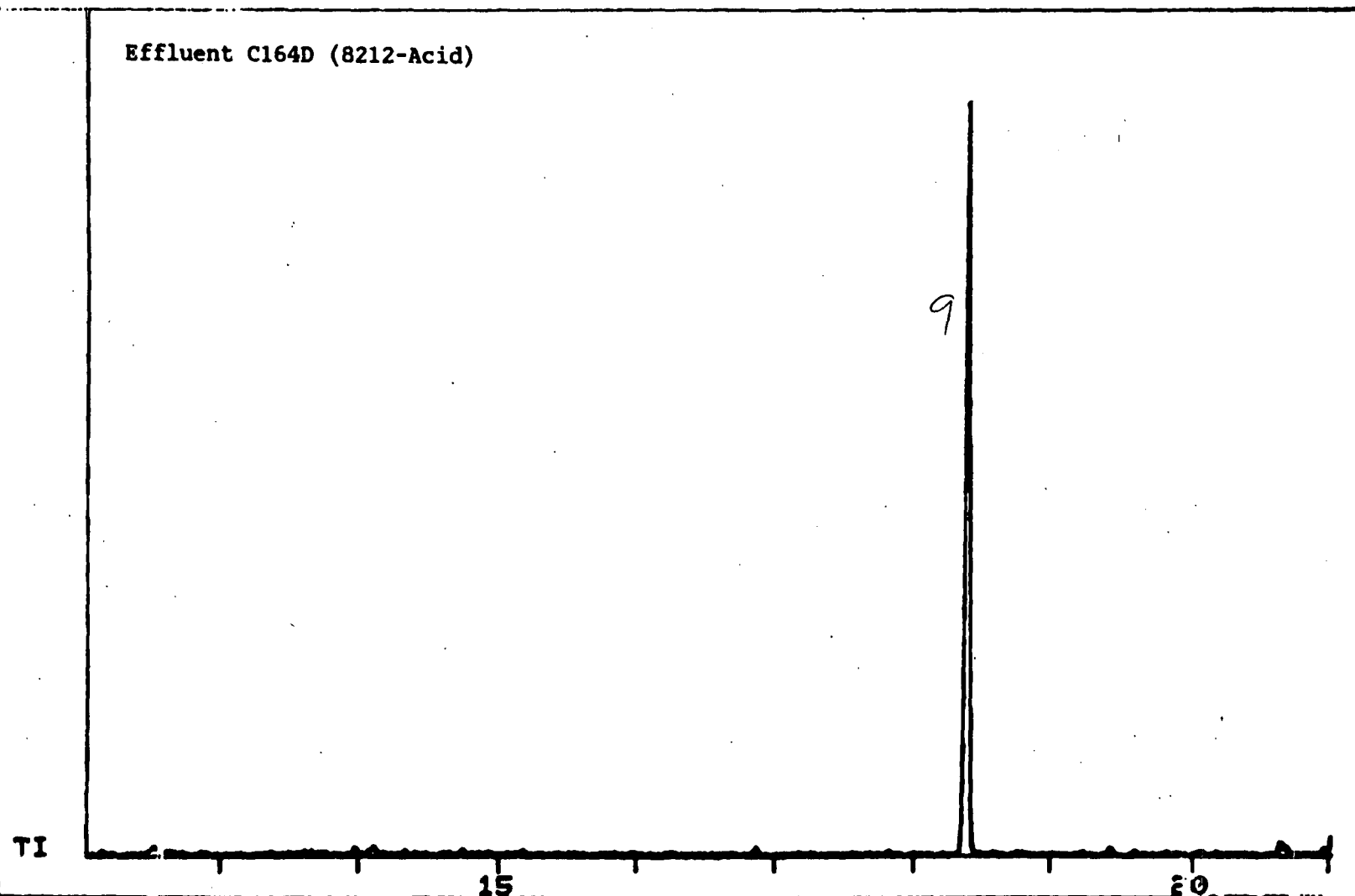


Figure G-17 (continued)

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** BATCH PROCESSOR RECONSTRUCT **
1 UL 100/100 D10 + 8212 ANP3 (C164D) 8/12/81 BMH
50(4)-280(8) BTL#12 D13101

FRN 13101
1ST SC/PG:1865
X= .25 Y= 1.00

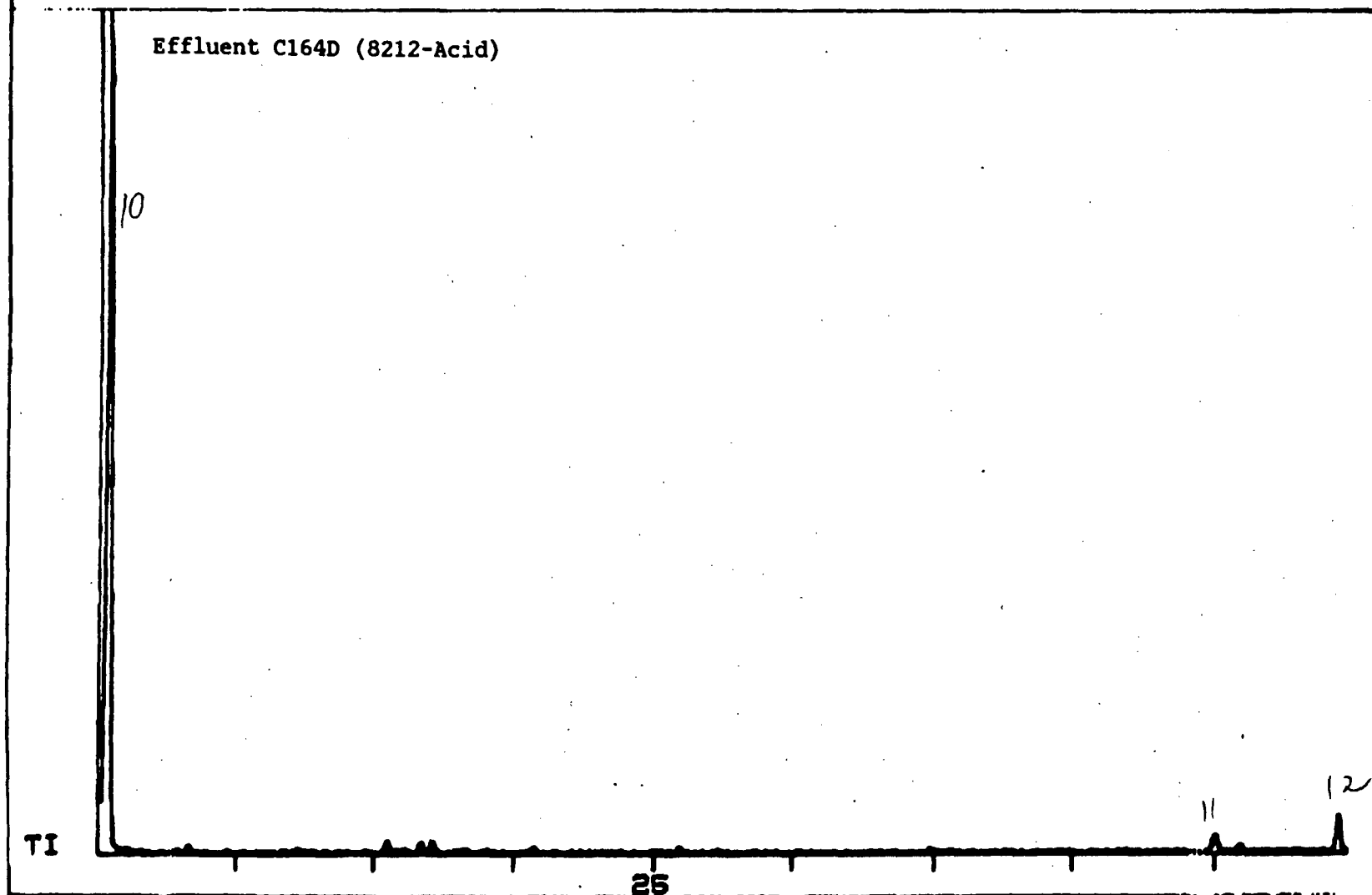


Figure G-17 (continued)

** BATCH PROCESSOR RECONSTRUCT **
1 UL 125/125 D10 + 8212-BNP3 (C164D) 8/13/81 BMH
50(4)-280(8) BTL#14

FRN 13127
1ST SC/PG: 1
X= .25 Y= 1.00

Effluent C164D (8212-Base/Neutral)

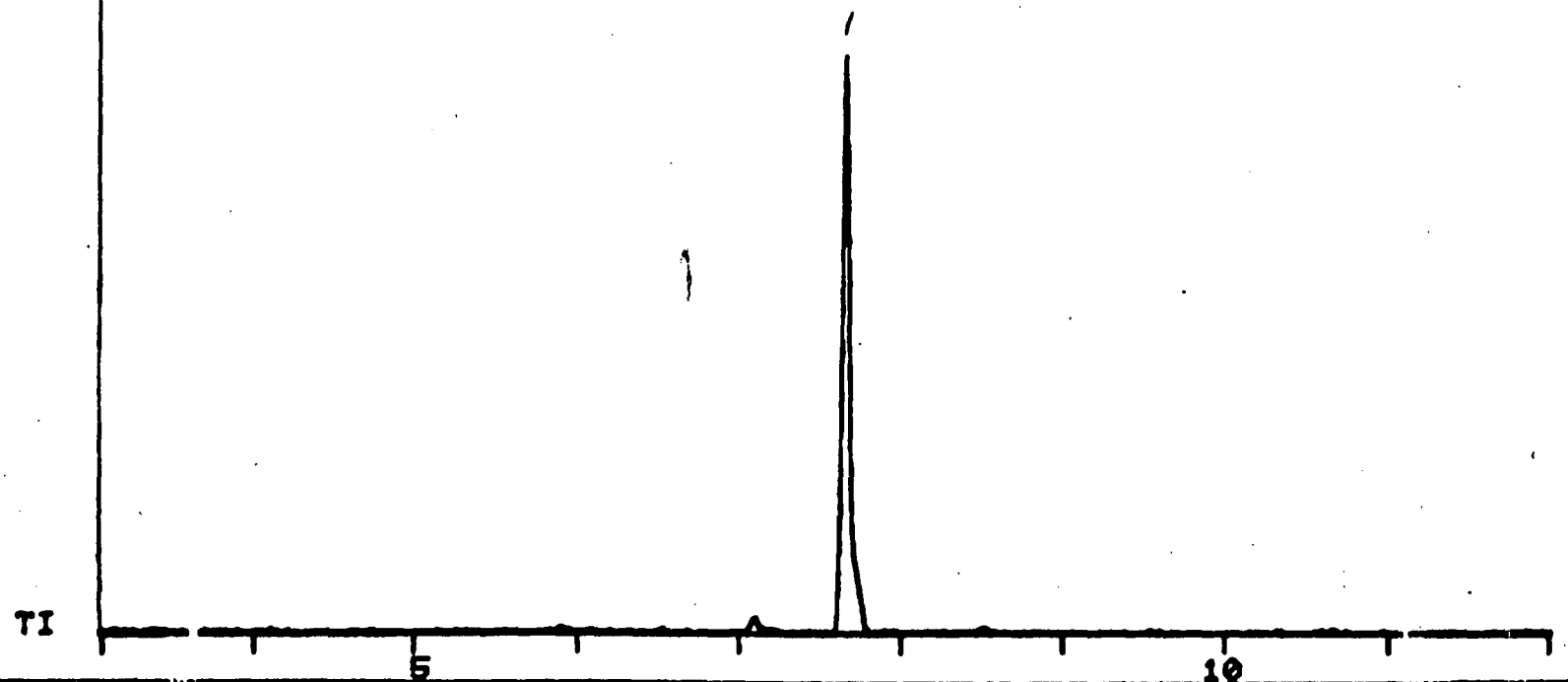


Figure G-18. Total ion chromatogram from GC/MS analysis of extractable organics base/neutral fraction from effluent C164D.

**** BATCH PROCESSOR RECONSTRUCT ****
1 UL 125/125 D10 + 8212-BNP3 (C164D) 8/13/81 BMH
50(4)-280(8) BTL#14 D13127

FRN 13127
1ST SC/PG: 933
X= .25 Y= 1.00

Effluent C164D (8212-Base/Neutral)

2

TI

15

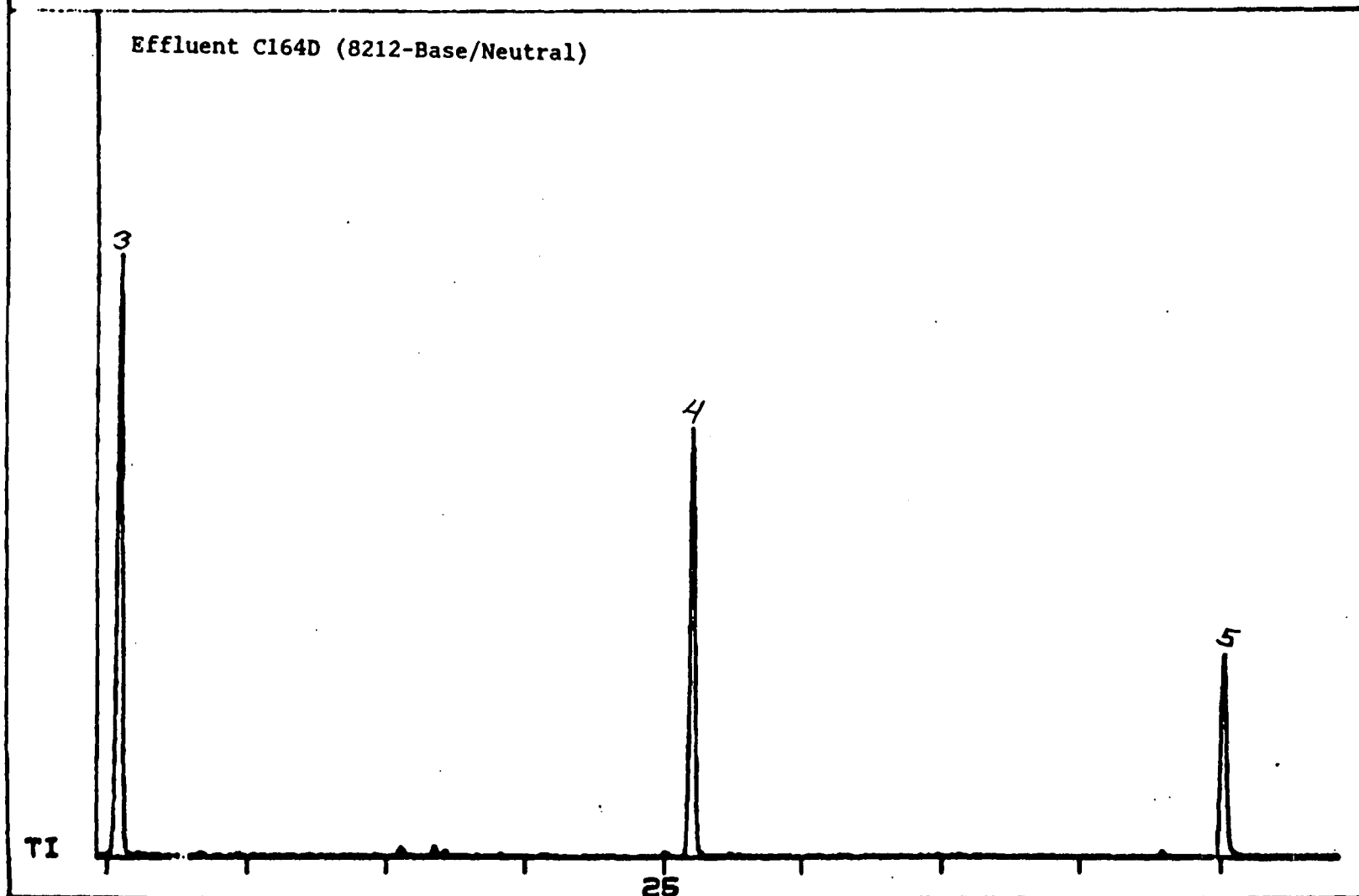
20

Figure G-18 (continued)

G-64

** BATCH PROCESSOR RECONSTRUCT **
1 UL 125/125 D10 + 8212-BNP3 (C164D) 8/13/81 BMH
50(4)-280(8) BTL#14

FRN 13127
1ST SC/PG:1865
X= .25 Y= 1.00



G-65

Figure G-18 (continued)

** BATCH PROCESSOR RECONSTRUCT **
1 UL 125/125 D10 + 8212-BNP3 (C164D) 8/13/81 BMH
50(4)-280(8) BTL#14 D13127

FRN 13127
1ST SC/PG:2797
X= .25 Y= 1.00

Effluent C164D (8212-Base/Neutral)

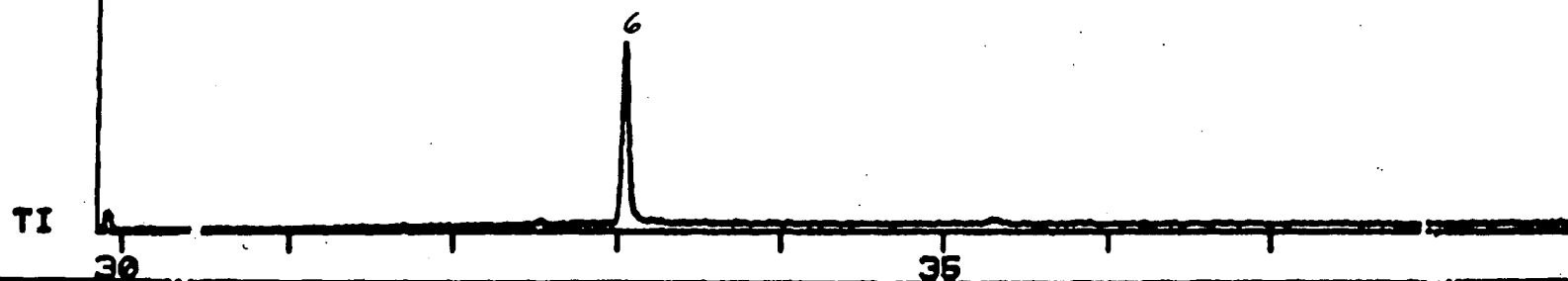


Figure G-18 (continued)

** BATCH PROCESSOR RECONSTRUCT **
1 UL 100/100 D10 + 8208 ANP3 (C163D) 8/12/81 BMH
50(4)-280(8) BTL#9 D13098

FRN 13098
1ST SC/PQ: 1
X= .25 Y= 1.00

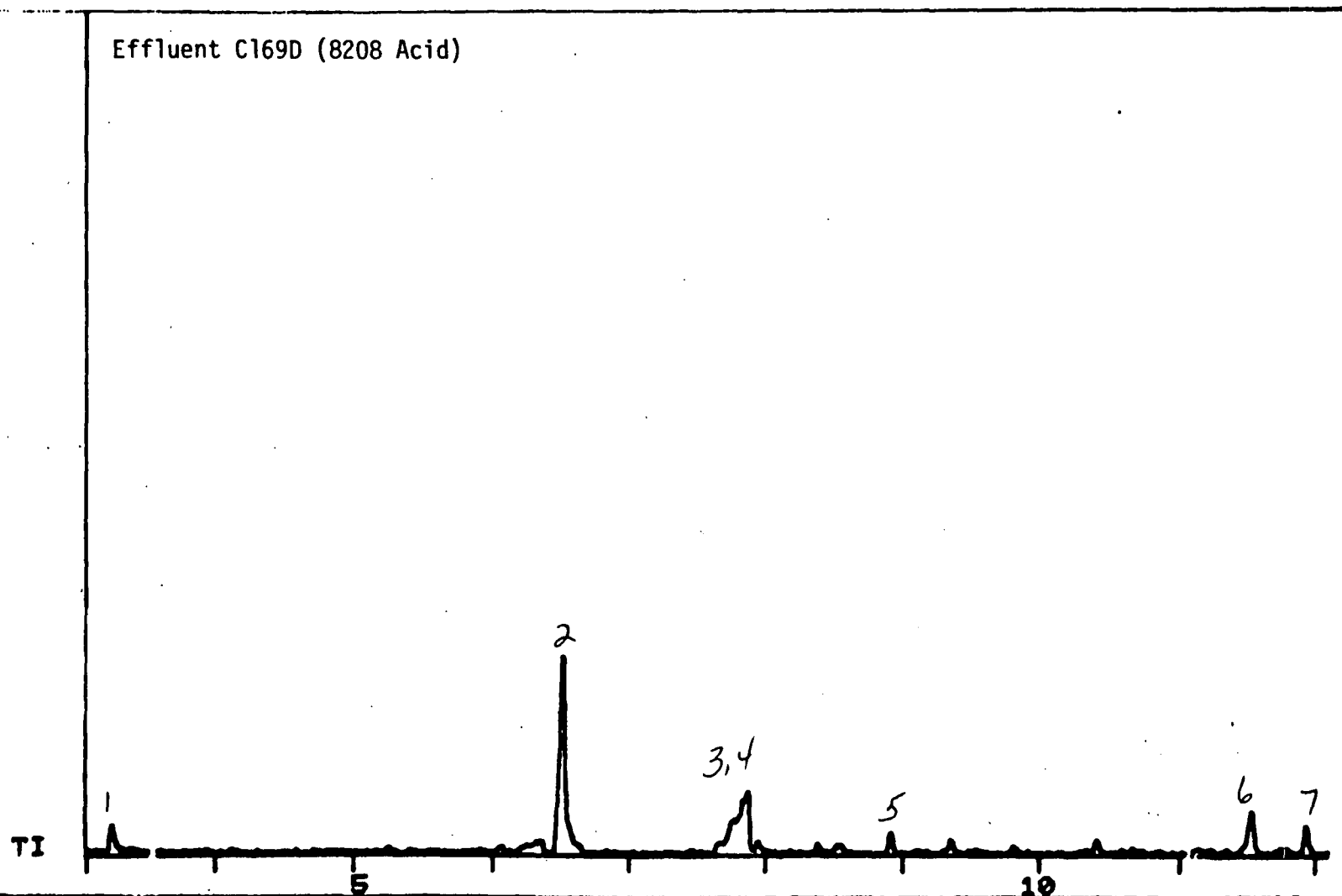


Figure G-19. Total ion chromatogram from GC/MS analysis of extractable organics acid fraction from effluent C169D.

G-68

** BATCH PROCESSOR RECONSTRUCT **
1 UL 100/100 D10 + 8208 ANP3 (C163D) 8/12/81 BMH
50(4)-230(8) BTL#9 D13098

FRN 13098
1ST SC/PG: 933
X= .25 Y= 1.00

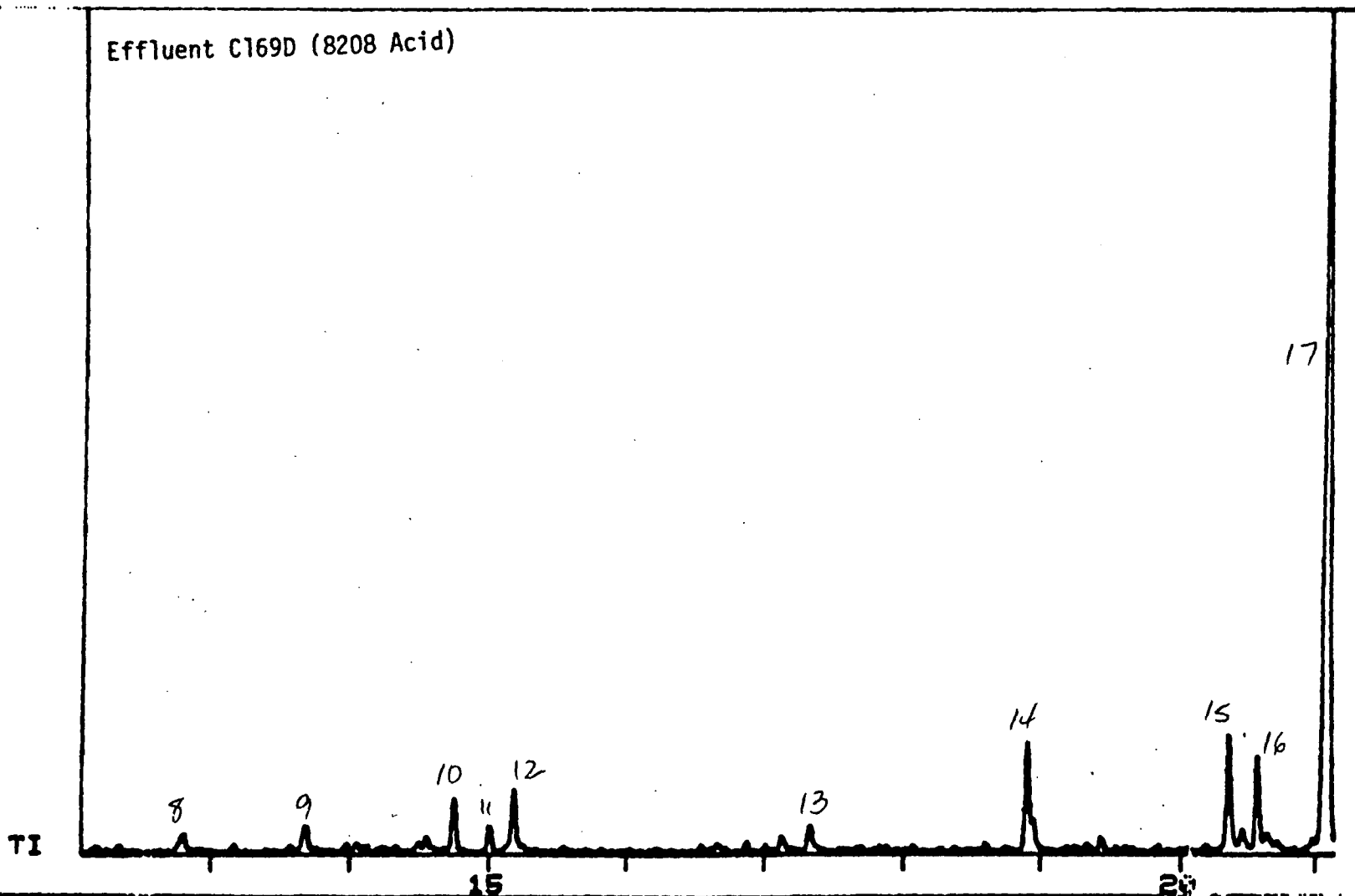


Figure G-19 (continued)

** BATCH PROCESSOR RECONSTRUCT **
1 UL 100/100 D10 + 8208 ANP3 (C163D) 8/12/81 BMH
50(4)-280(8) BTL#9 D13098

FRN 13098
1ST SC/PG:1865
X= .25 Y= 1.00

Effluent C169D (8208 Acid)

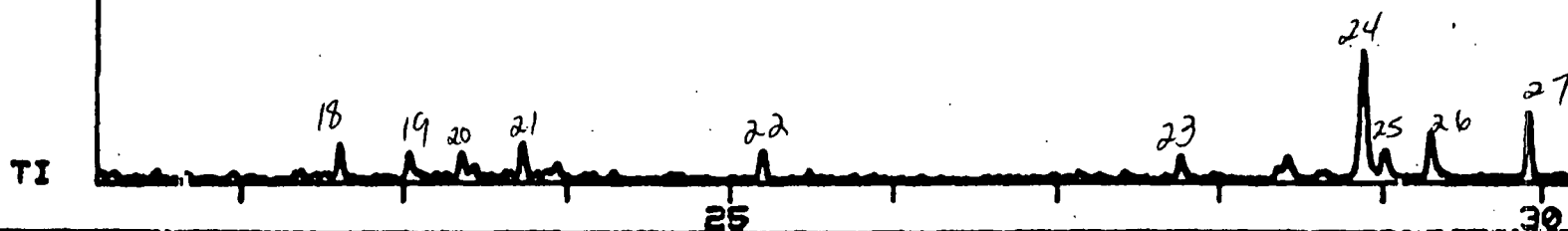


Figure G-19 (continued)

G-69

** BATCH PROCESSOR RECONSTRUCT **
1 UL 100/100 D10 + 8208 ANP3 (C163D) 8/12/81 BMH
50(4)-280(8) BTL#9 D13098

FRN 13098
1ST SC/PQ:2797
X= .25 Y= 1.00

Effluent C169D (8208 Acid)

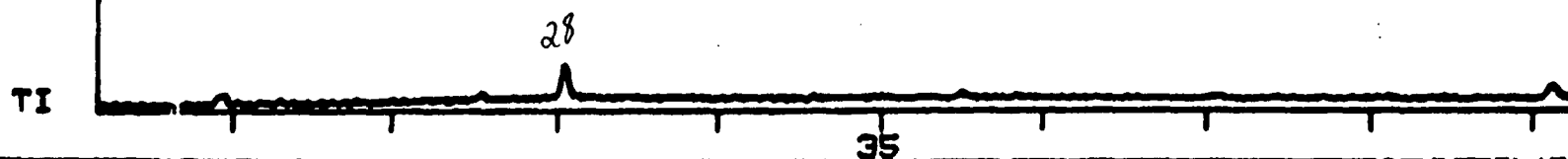


Figure G-19 (continued)

G-70

** BATCH PROCESSOR RECONSTRUCT **
1 UL 125/125 D10 + 8208-BNP3 (C163D) 8/13/81 BMH
50(4)-280(8) BTL*12 D13125

FRN 13125
1ST SC/PG: 1
X= .25 Y= 1.00

Effluent C169D (8208 Base/Neutral)

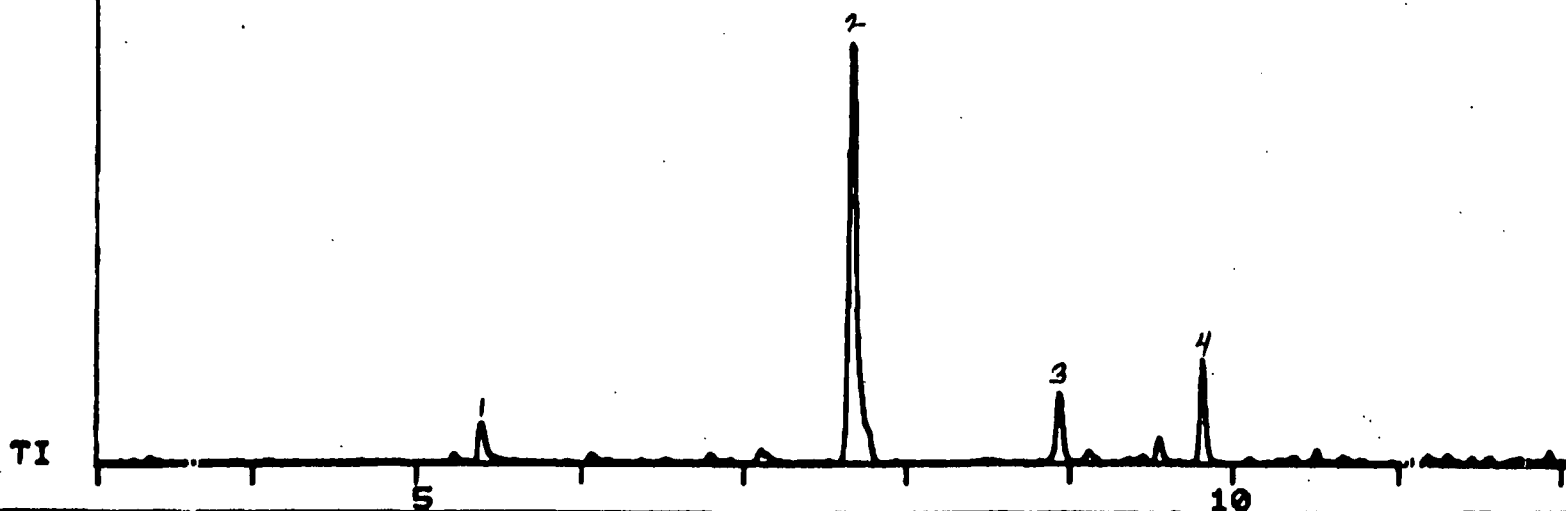


Figure G-20. Total ion chromatogram from GC/MS analysis of extractable organics base/neutral fraction from effluent C169D.

** BATCH PROCESSOR RECONSTRUCT **
1 UL 125/125 D10 + 8208-BNP3 (C163D) 8/13/81 BMH
50(4)-280(8) BTL#12 D13125

FRN 13125
1ST SC/PG: 933
X= .25 Y= 1.00

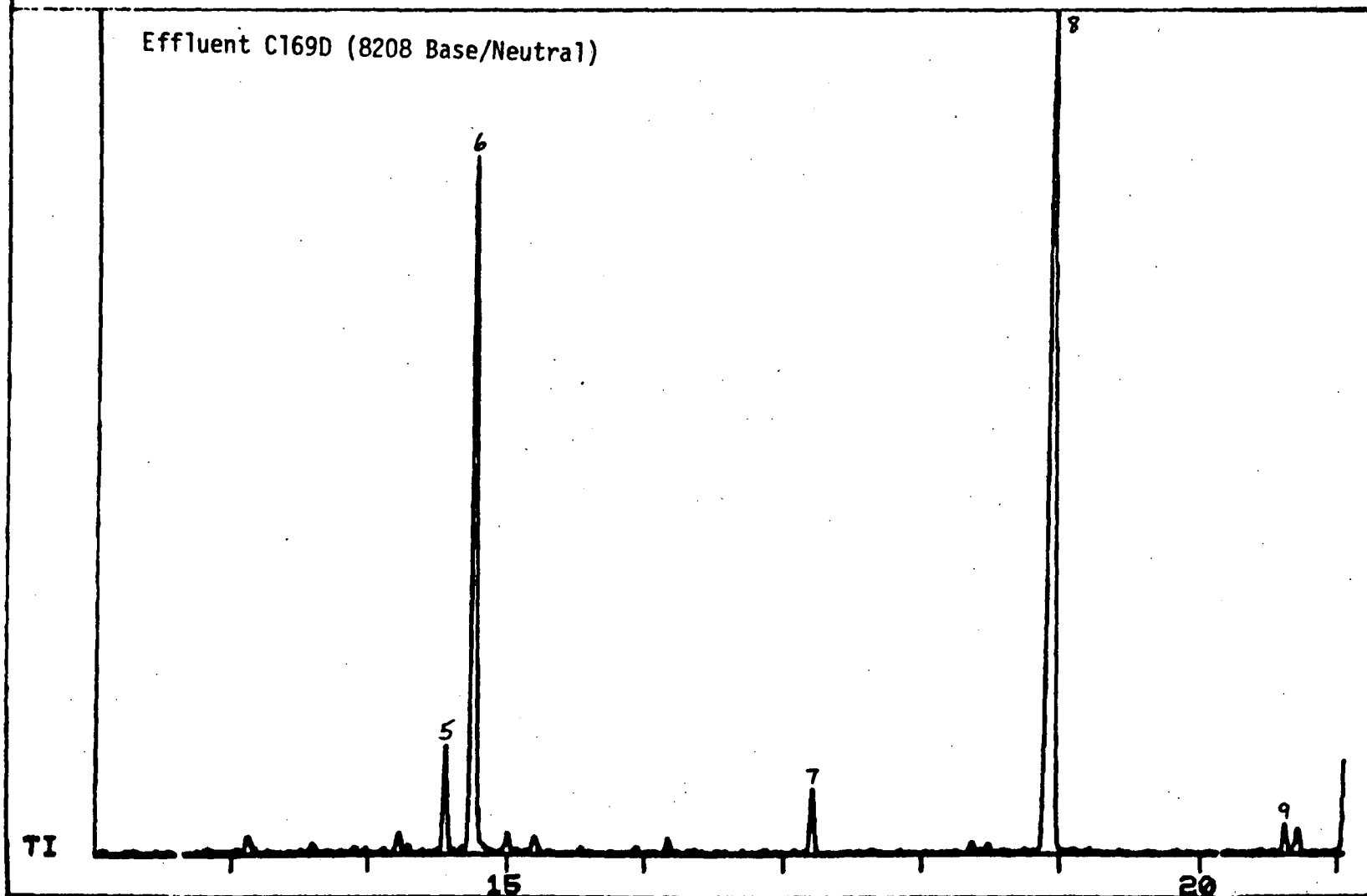


Figure G-20 (continued)

** BATCH PROCESSOR RECONSTRUCT **
1 UL 125/125 D10 + 8208-BNP3 (C163D) 8/13/81 BMH
50(4)-280(8) BTL#12

FRN 13125
1ST SC/PG:1865
X= .25 Y= 1.00

Effluent C169D (8208 Base/Neutral)

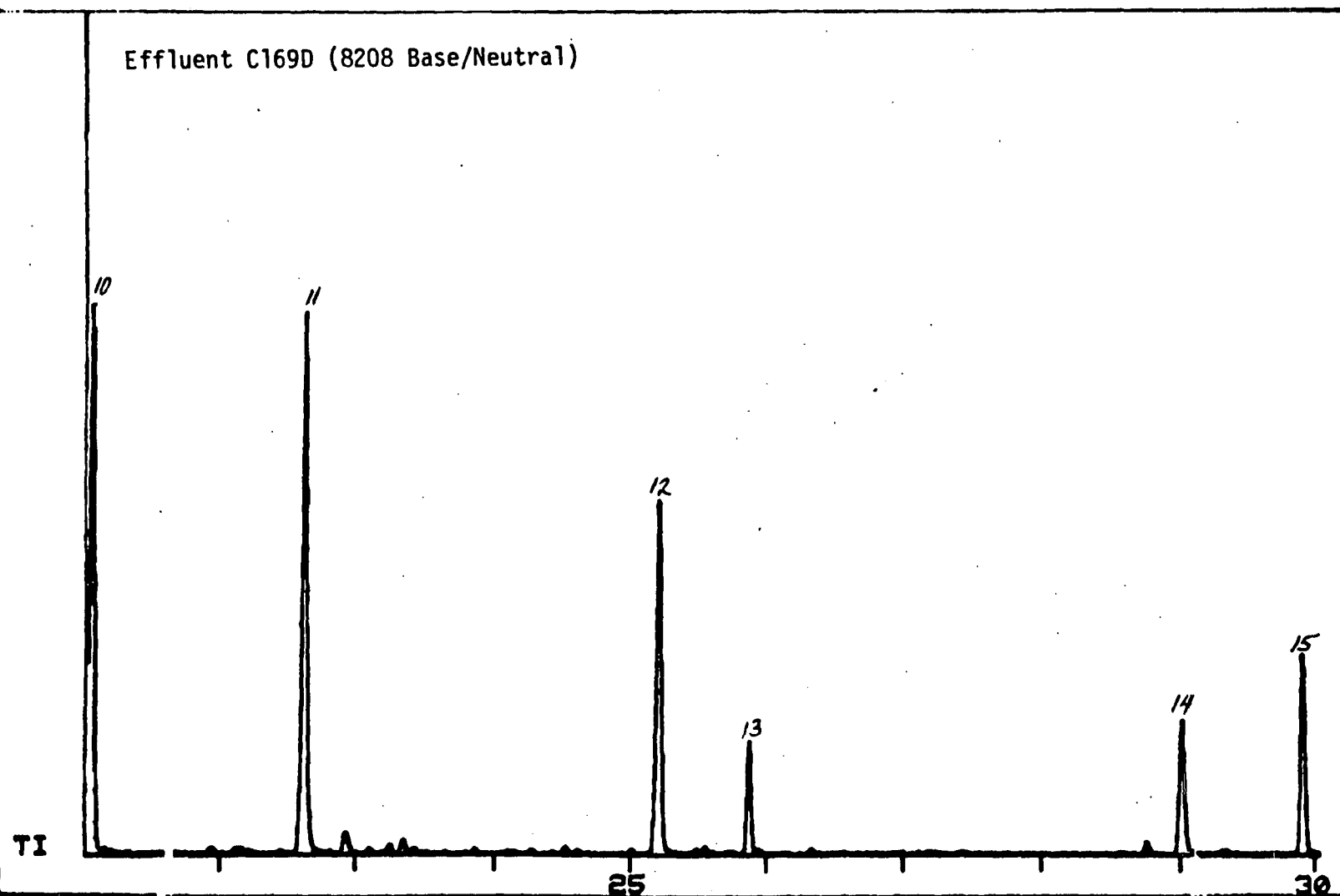


Figure G-20 (continued)

** BATCH PROCESSOR RECONSTRUCT **
1 UL 125/125 D10 + 8208-BNP3 (C163D) 8/13/81 BMH
50(4)-280(8) BTL#12 D13125

FRN 13125
1ST SC/PG:2797
X= .25 Y= 1.00

Effluent C169D (8208 Base/Neutral)

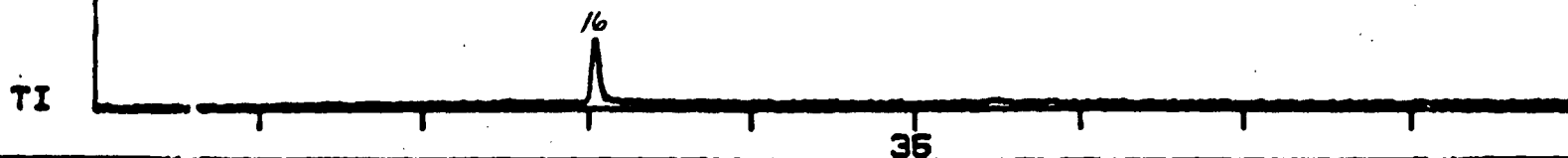


Figure G-20 (continued)

** BATCH PROCESSOR RECONSTRUCT **
1 UL 100/100 D10 + 8183 ANP3 (B133S) 8/12/81 BMH
53(4)-280(8) BTL#4 D13093

FRN 13093
1ST SC/PG: 1
X= .25 Y= 1.00

Effluent B133S (8183-Acid)

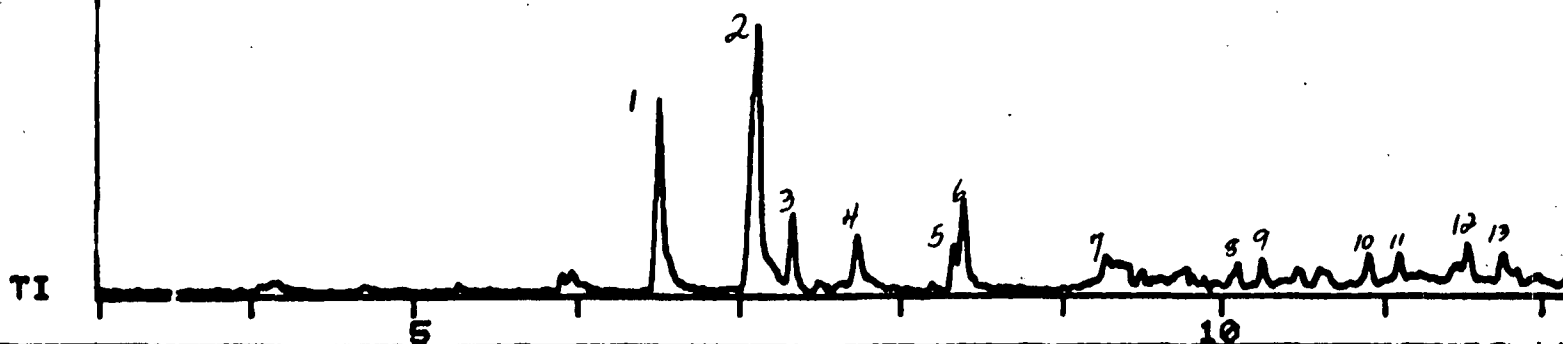


Figure G-21. Total ion chromatogram from GC/MS analysis of extractable organics acid fraction from effluent B133S.

** BATCH PROCESSOR RECONSTRUCT **
1 UL 100/100 D10 + 8183 ANP3 (B133S) 8/12/81 BMH
50(4)-280(8) BTL#4

FRN 13093
1ST SC/PG: 933
X= .25 Y= 1.00

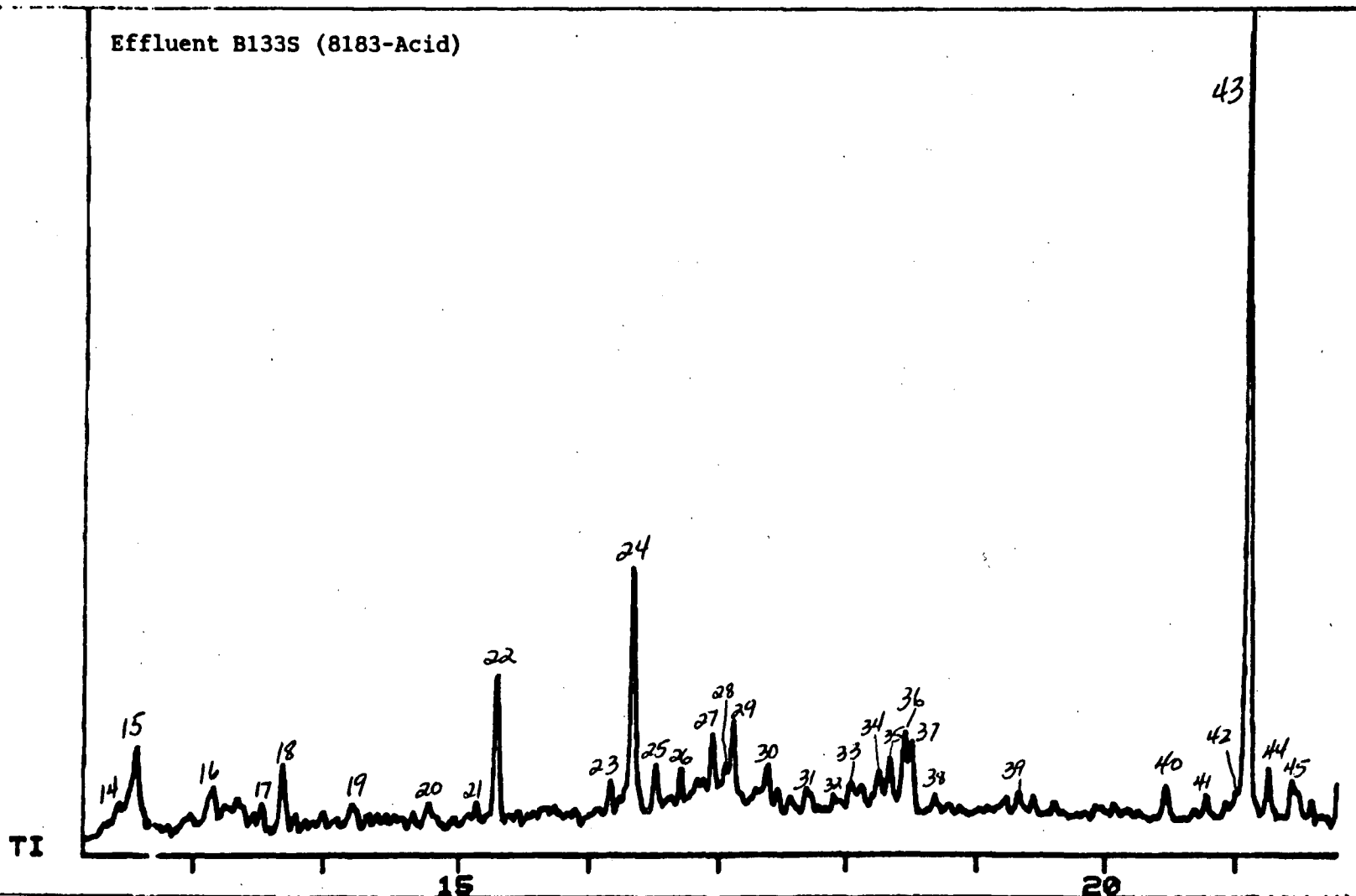


Figure G-21 (continued)

** BATCH PROCESSOR RECONSTRUCT **
1 UL 100/100 D10 + 8183 ANP3 (B133S) 8/12/81 BMH
50(4)-280(8) BTL#4

FRN 13093
1ST SC/PG:1865
X= .25 Y= 1.00

Effluent B133S (8183-Acid)

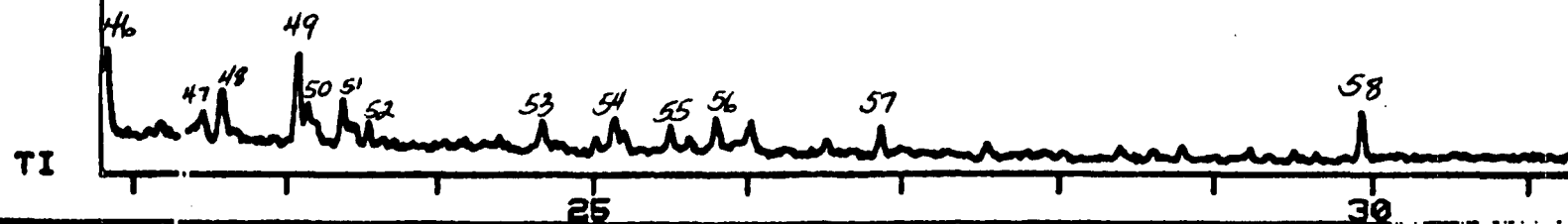


Figure G-21 (continued)

** BATCH PROCESSOR RECONSTRUCT **
1 UL 100/100 D10 + 8183 ANP3 (B133S) 8/12/81 BMH
50(4)-280(8) BTL#4

FRN 13093
1ST SC/PG:2797
X= .25 Y= 1.00

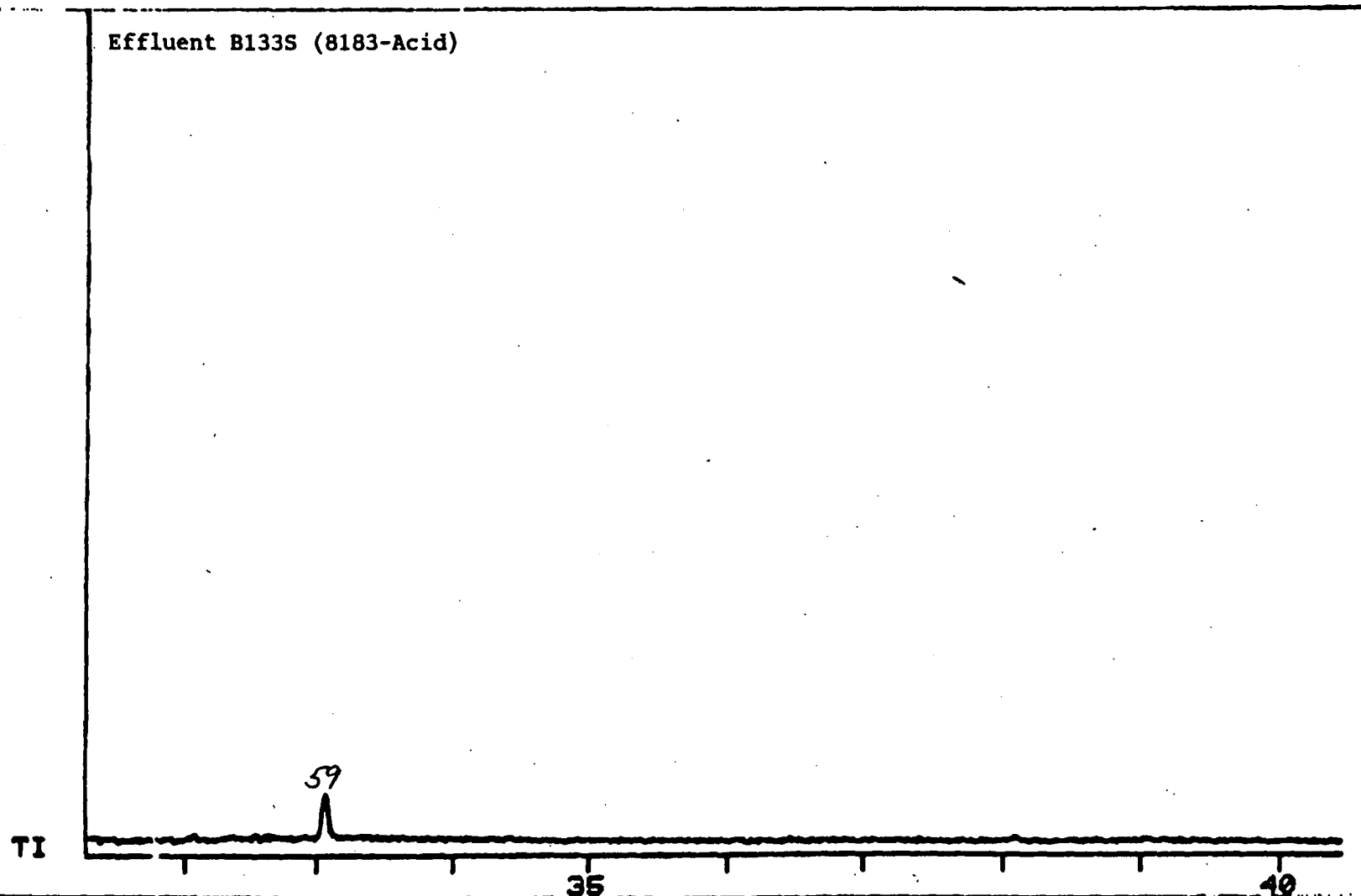


Figure G-21 (continued)

** BATCH PROCESSOR RECONSTRUCT **
1 UL 125/125 D10 + 8183-BNP3 (B1335) 8/13/81 BMH
50(4)-280(8) BTL#7 D13120

FRN 13120
1ST SC/PG: 1
X= .25 Y= 1.00

Effluent B133S (8183-Base/Neutral)

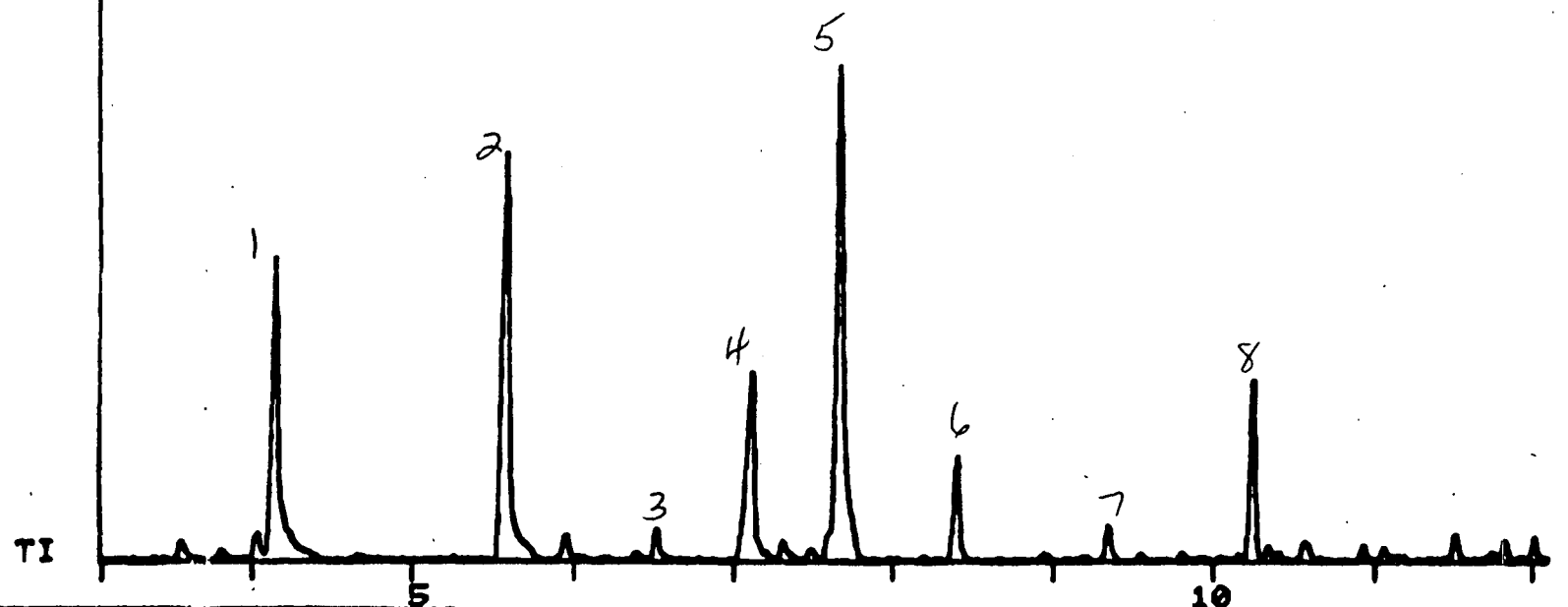


Figure G-22. Total ion chromatogram from GC/MS analysis of extractable organics base/neutral fraction from effluent B133S.

** BATCH PROCESSOR RECONSTRUCT **
1 UL 125/125 D10 + 8183-BNP3 (B133S) 8/13/81 BMH
50(4)-280(8) BTL#7

FRN 13120
1ST SC/PG: 933
X= .25 Y= 1.00

Effluent B133S (8183-Base/Neutral)

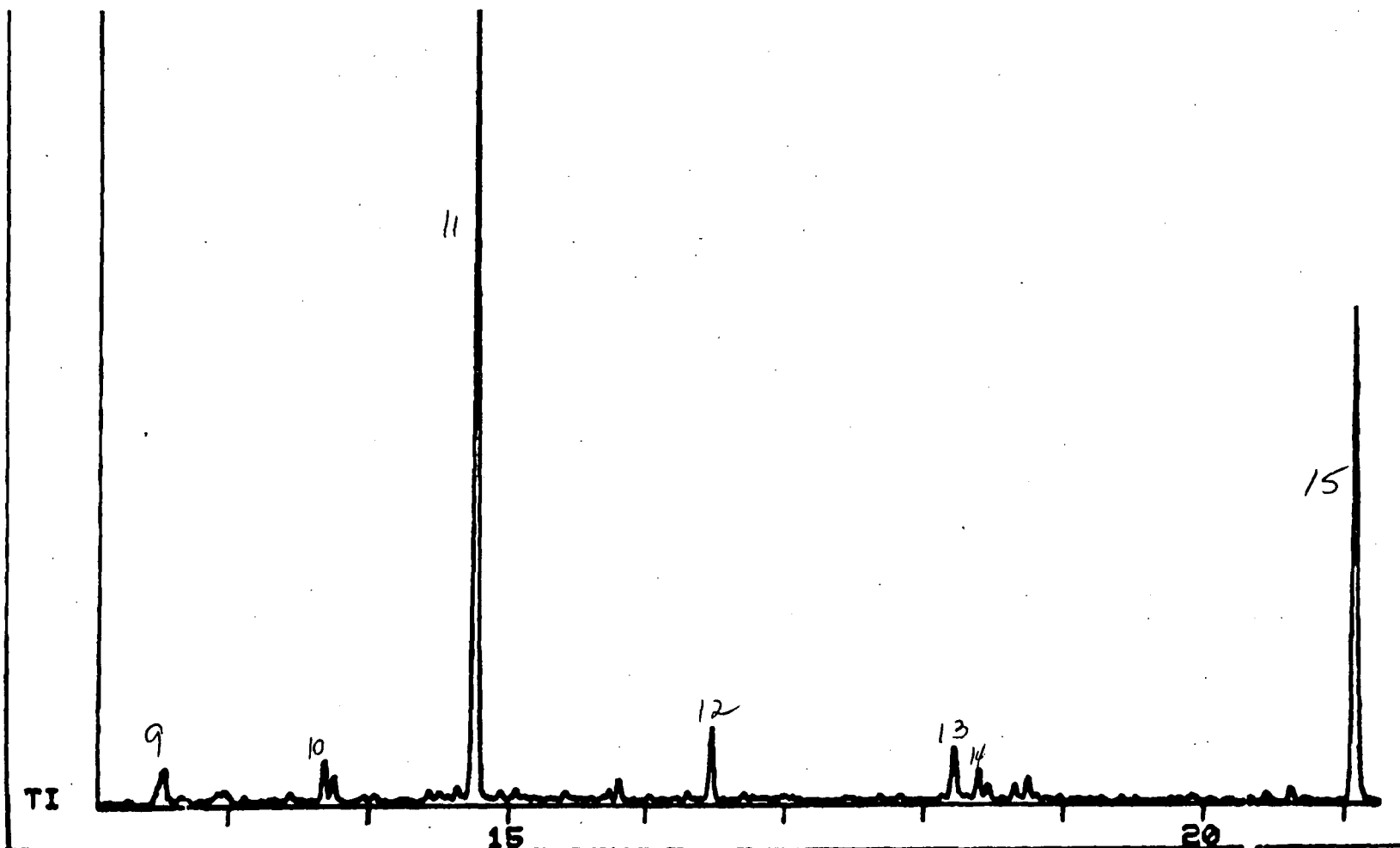


Figure G-22 (continued)

** BATCH PROCESSOR RECONSTRUCT **
1 UL 125/125 D10 + 8183-BNP3 (B133S) 8/13/81 BMH
50(4)-280(8) BTL#7

FRN 13120
1ST SC/PG:1865
X= .25 Y= 1.00

Effluent B133S (8183-Base/Neutral)

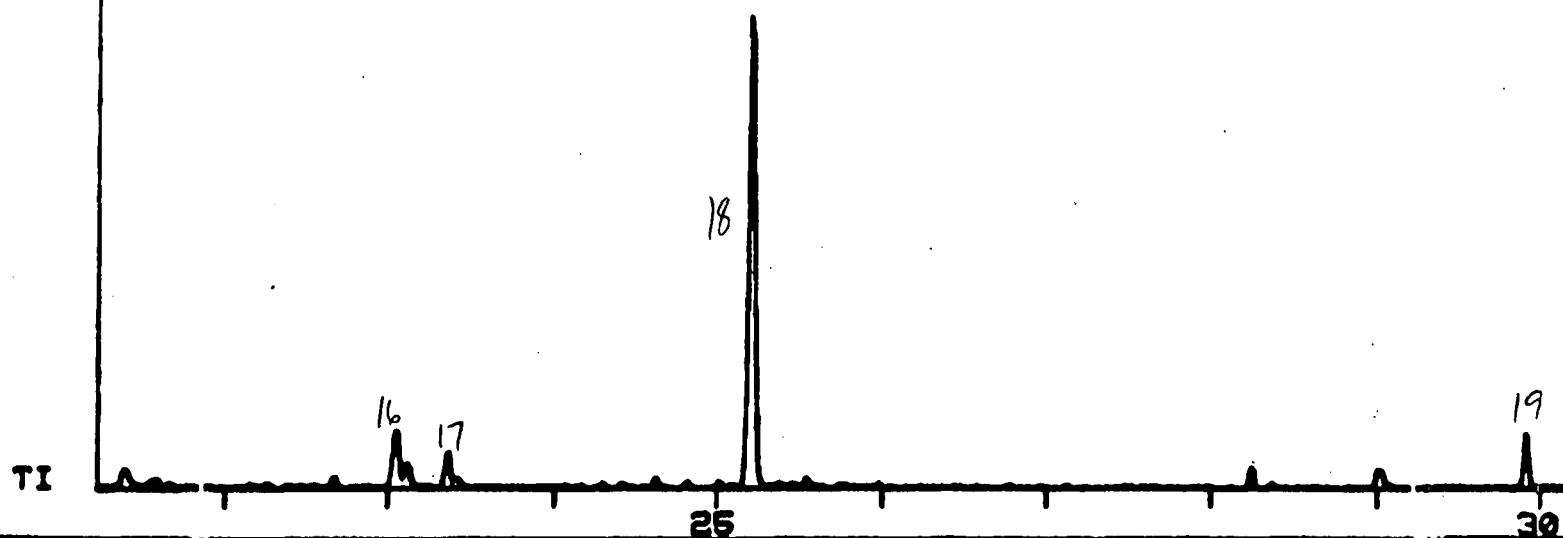


Figure G-22 (continued)

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1 UL 125/125 D10 + 8183-BNP3 (B133S) 8/13/81 BMH
50(4)-280(8) BTL#7 D13120

FRN 13120
1ST SC/PG:2797
X= .25 Y= 1.00

Effluent B133S (8183-Base/Neutral)

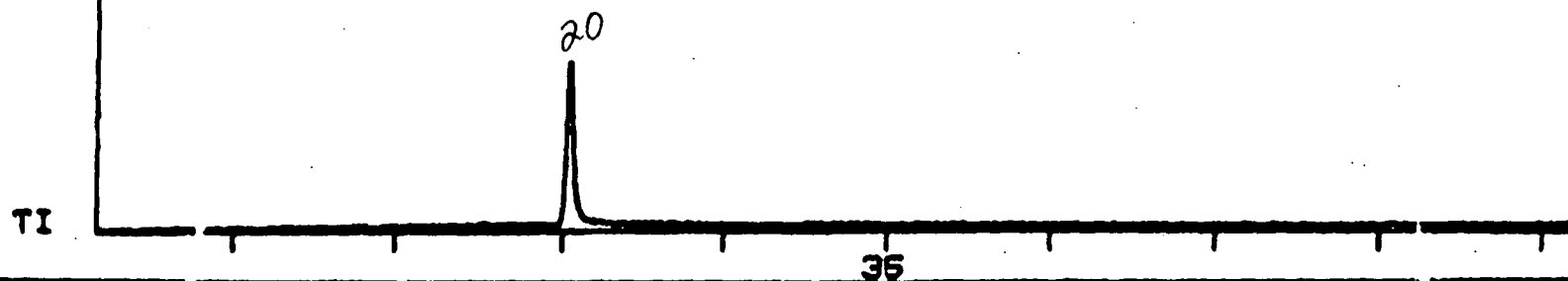


Figure G-22 (continued)

** BATCH PROCESSOR RECONSTRUCT **
1 UL 100/100 D10 + 8185 ANP3 (B141S) 8/12/81 BMH
50(4)-280(8) BTL#6

FRN 13095
1ST SC/PG: 1
X= .25 Y= 1.00

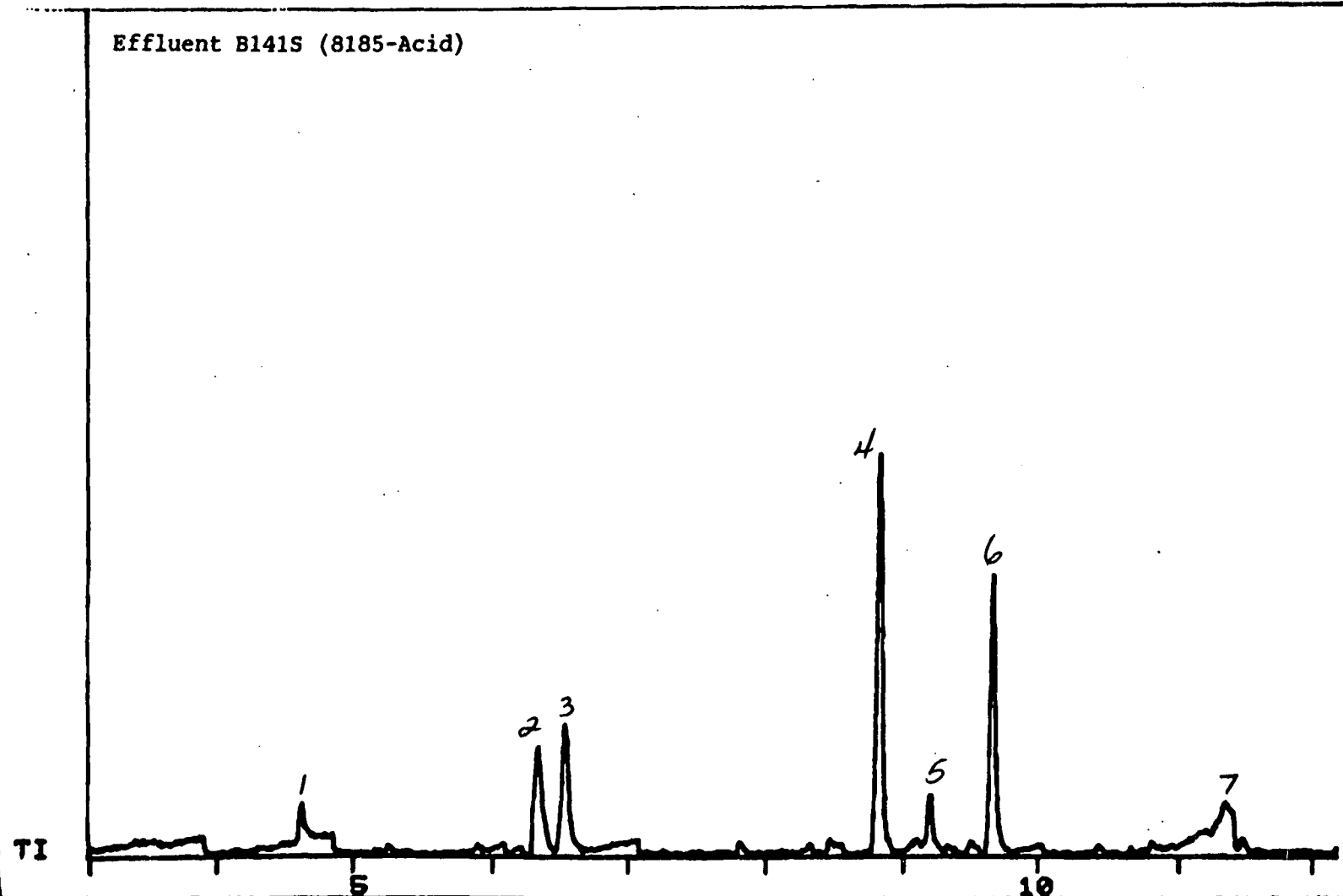


Figure G-23. Total ion chromatogram from GC/MS analysis of extractable organics acid fraction from effluent B141S.

**** BATCH PROCESSOR RECONSTRUCT ****
1 UL 100/100 D10 + 8185 ANP3 (B141S) 8/12/81 BMH
50(4)-280(8) BTL#6 D13095

FRN 13095
1ST SC/PG: 933
X= .25 Y= 1.00

Effluent B141S (8185-Acid)

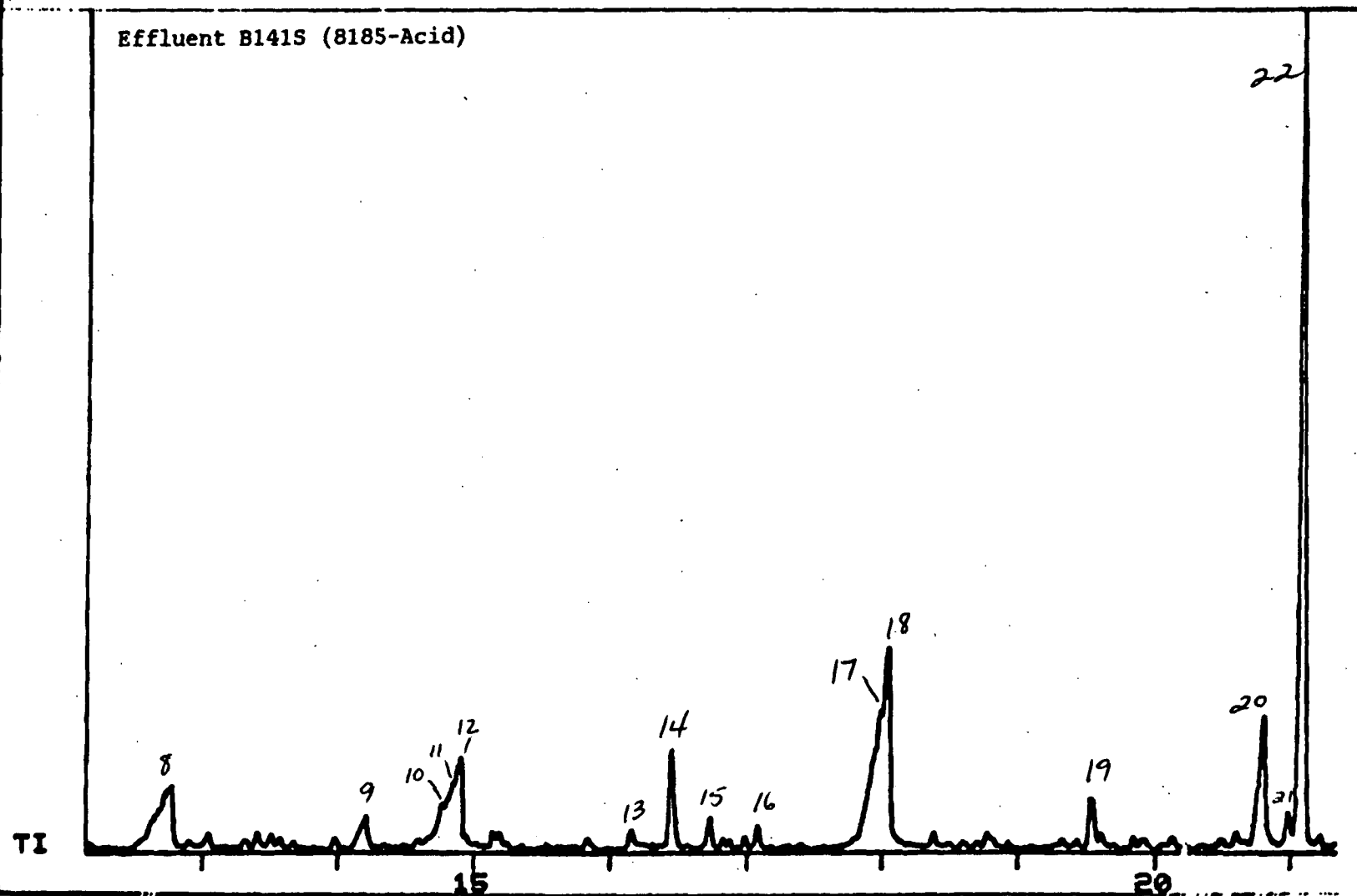


Figure G-23 (continued)

G-84

** BATCH PROCESSOR RECONSTRUCT **
1 UL 100/100 D10 + 8185 ANP3 (B141S) 8/12/81 BMH
50(4)-280(8) BTL#6 D13095

FRN 13095
1ST SC/PG:1865
X= .25 Y= 1.00

Effluent B141S (8185-Acid)

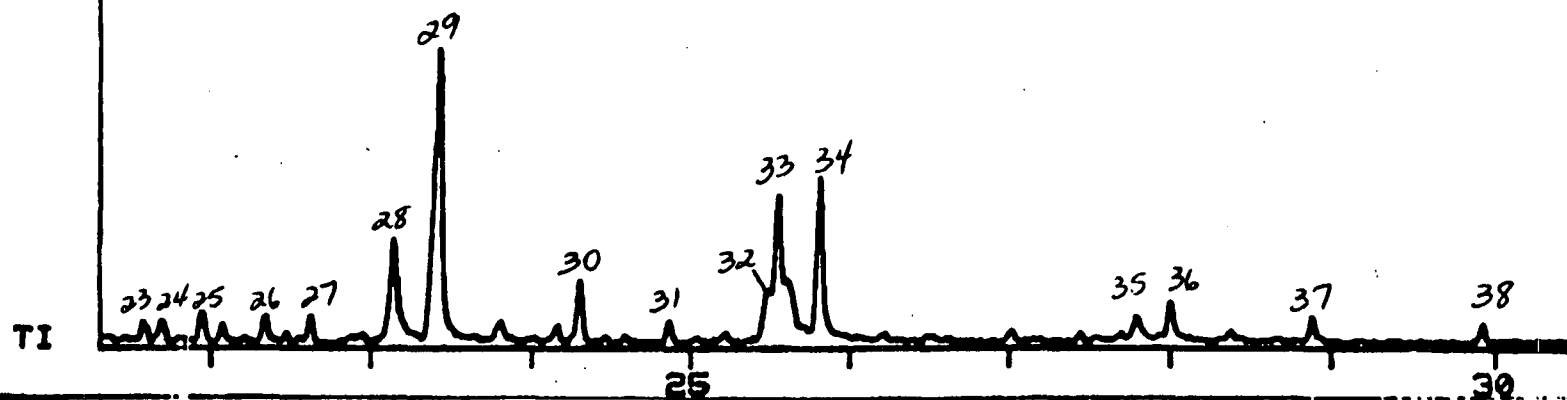


Figure G-23 (continued)

** BATCH PROCESSOR RECONSTRUCT **
1 UL 100/100 D10 + 8185 ANP3 (B141S) 8/12/81 BMH
50(4)-280(8) BTL#6 D13095

FRN 13095
1ST SC/PG:2797
X= .25 Y= 1.00

Effluent B141S (8185-Acid)

TI

39 40
35

Figure G-23 (continued)

** BATCH PROCESSOR RECONSTRUCT **
1 UL 125/125 D10 + 8185-BNP3 (DIL 1:5) (B141S)
3/13/81 BMH BTL#9 D13122

FRN 13122
1ST SC/PG: 1
X= .25 Y= 1.00

Effluent B141S (8185-Base/Neutral) DIL 1:5

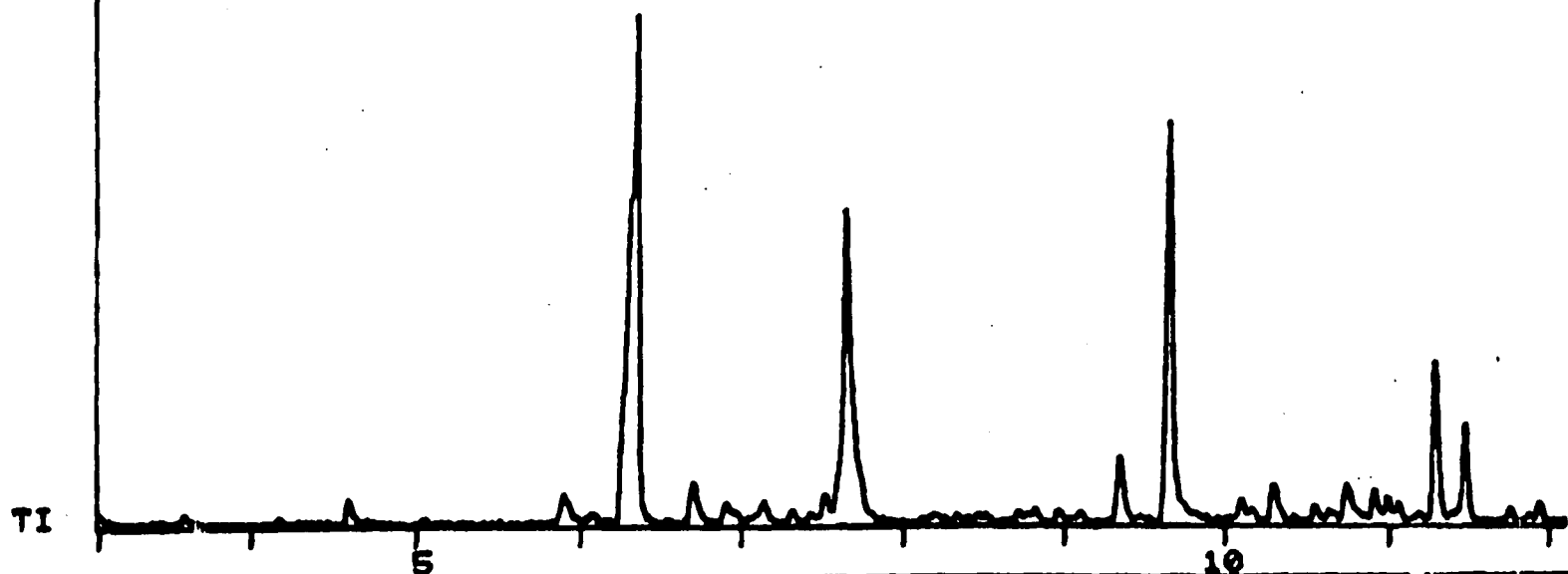


Figure G-24. Total ion chromatogram from GC/MS analysis of extractable organics base/neutral fraction from effluent B141S.

**** BATCH PROCESSOR RECONSTRUCT ****
1 UL 125/125 D10 + 8185-BNP3 (DIL 1:5) (B141S)
3/13/81 BMH BTL#9

FRN 13122
1ST SC/PG: 933
X= .25 Y= 1.00

Effluent B141S (8185-Base/Neutral) DIL 1:5

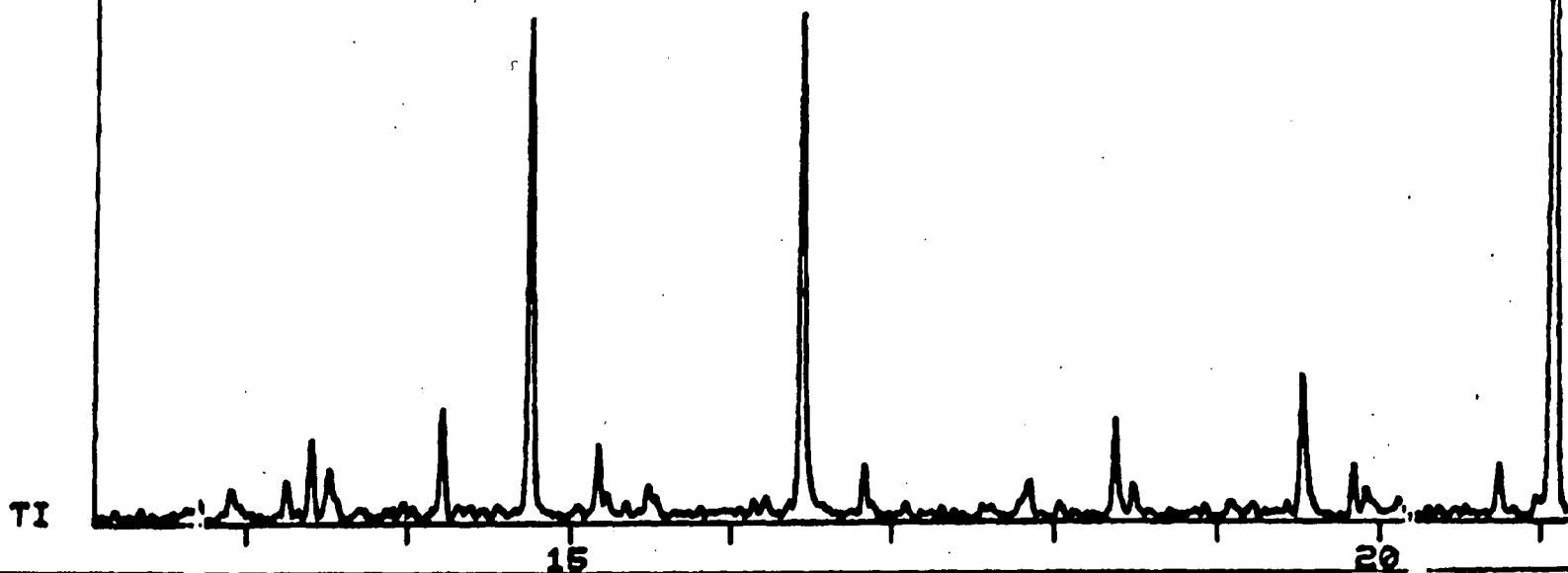


Figure G-24 (continued)

** BATCH PROCESSOR RECONSTRUCT **
1 UL 125/125 D10 + 8185-BNP3 (DIL 1:5) (B141S)
3/13/81 BMH BTL#9

FRN 13122
1ST SC/PG:1865
X= .25 Y= 1.00

Effluent B141S (8185-Base/Neutral) JIL 1:5

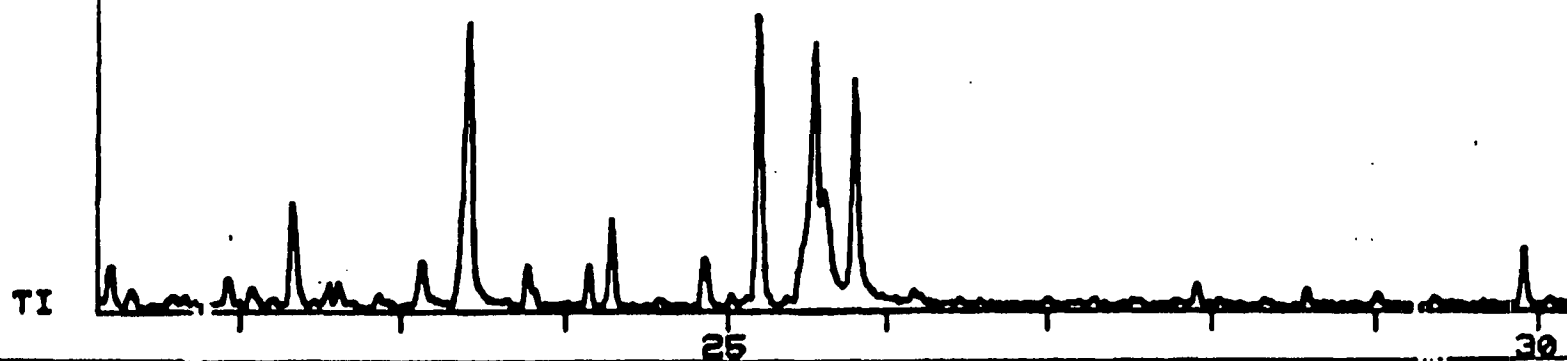


Figure G-24 (continued)

** BATCH PROCESSOR RECONSTRUCT **
1 UL 125/125 D10 + 8185-BNP3 (DIL 1:5) (B141S)
3/13/81 BMH BTL#9 D13122

FRN 13122
1ST SC/PG:2797
X= .25 Y= 1.00

Effluent B141S (8185-Base/Neutral) DIL 1:5

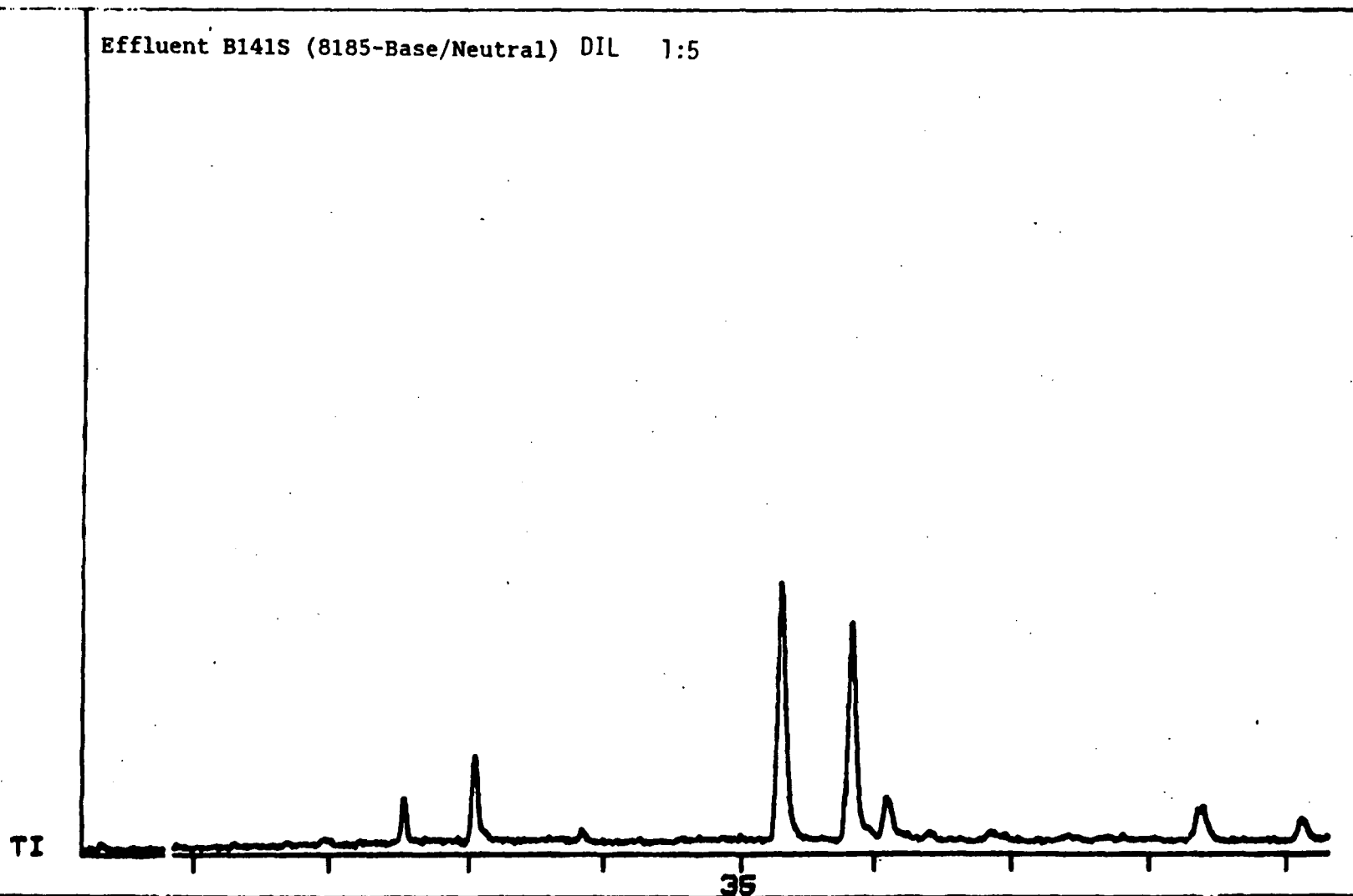


Figure G-24 (continued)

** BATCH PROCESSOR RECONSTRUCT **
1 UL 100/100 D10 + 8184 ANP3 (B142S) 8/12/81 BMH
50(4)-280(8) BTL#5 D13094

FRN 13094
1ST SC/PG: 1
X= .25 Y= 1.00

Effluent B142S (8184-Acid)

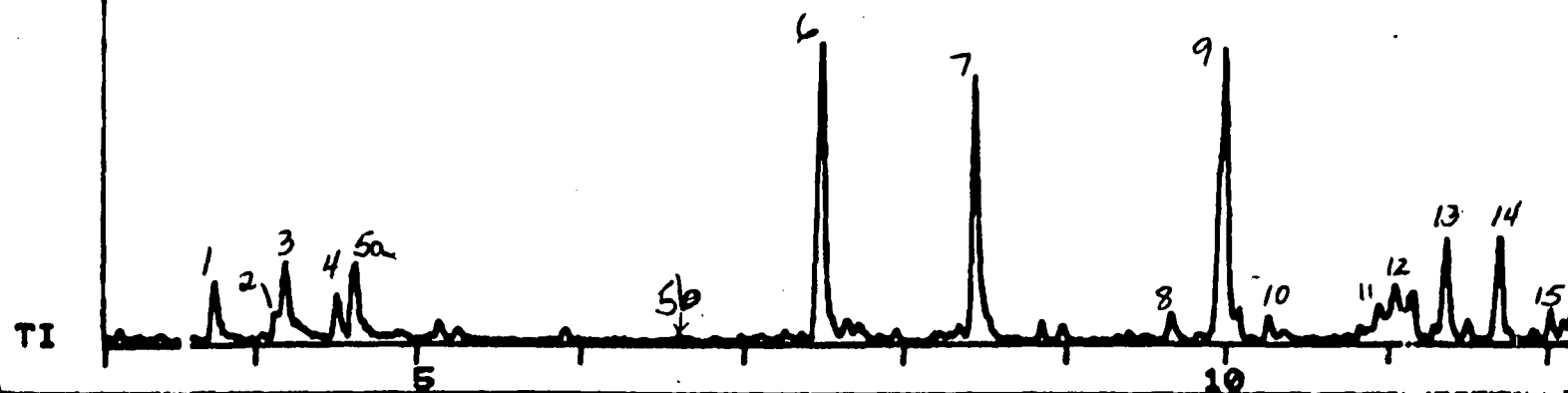


Figure G-25. Total ion chromatogram from GC/MS analysis of extractable organics acid fraction from effluent B142S.

** BATCH PROCESSOR RECONSTRUCT **
1 UL 100/100 D10 + 8184 ANP3 (B1425) 8/12/81 BMH
50(4)-280(8) BTL#5 D13094

FRN 13094
1ST SC/PQ: 933
X= .25 Y= 1.00

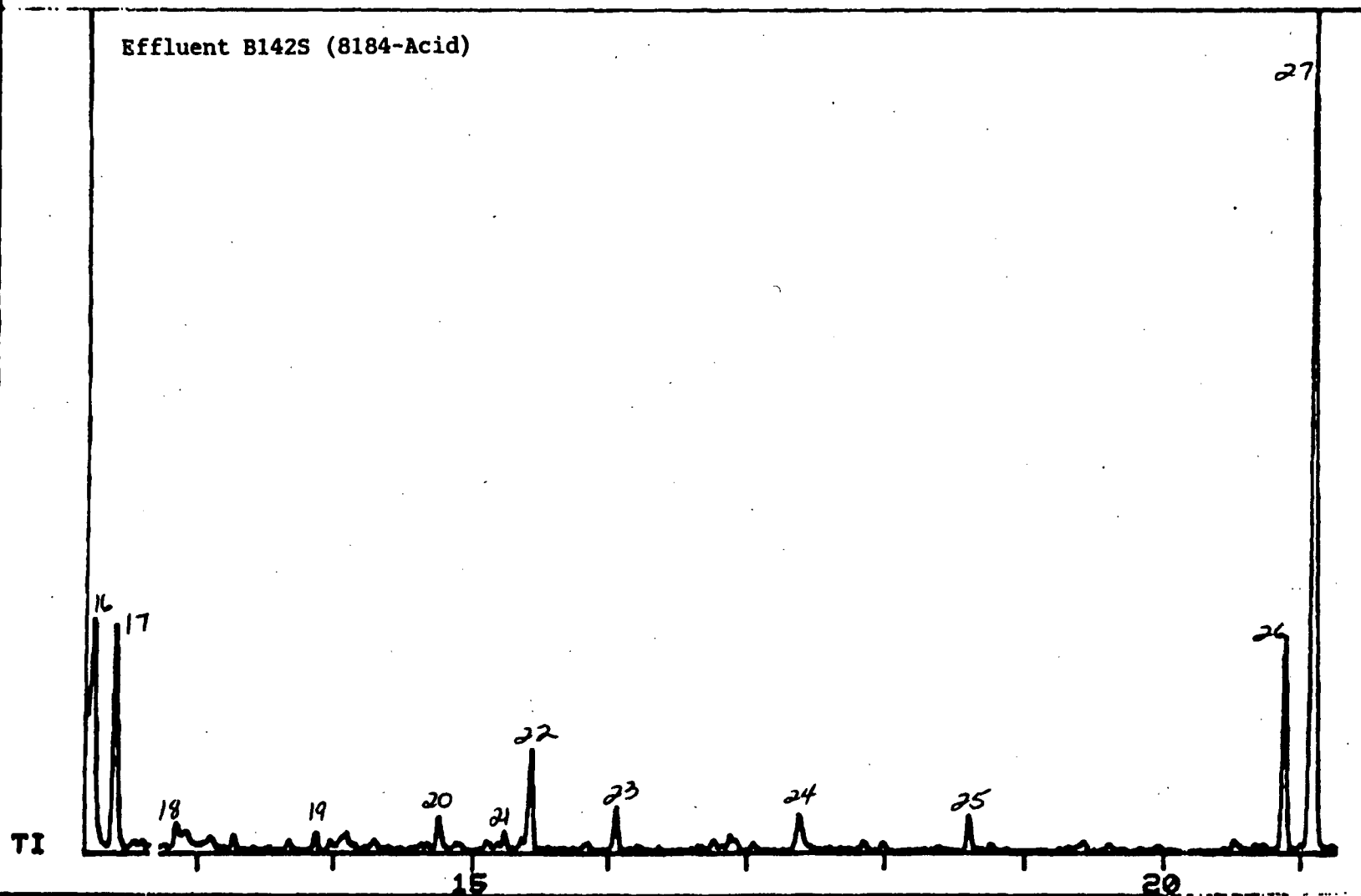


Figure G-25 (continued)

** BATCH PROCESSOR RECONSTRUCT **
1 UL 100/100 D10 + 8184 ANP3 (B142S) 8/12/81 BMH
50(4)-280(8) BTL#5 D13094

FRN 13094
1ST SC/PG:1865
X= .25 Y= 1.00

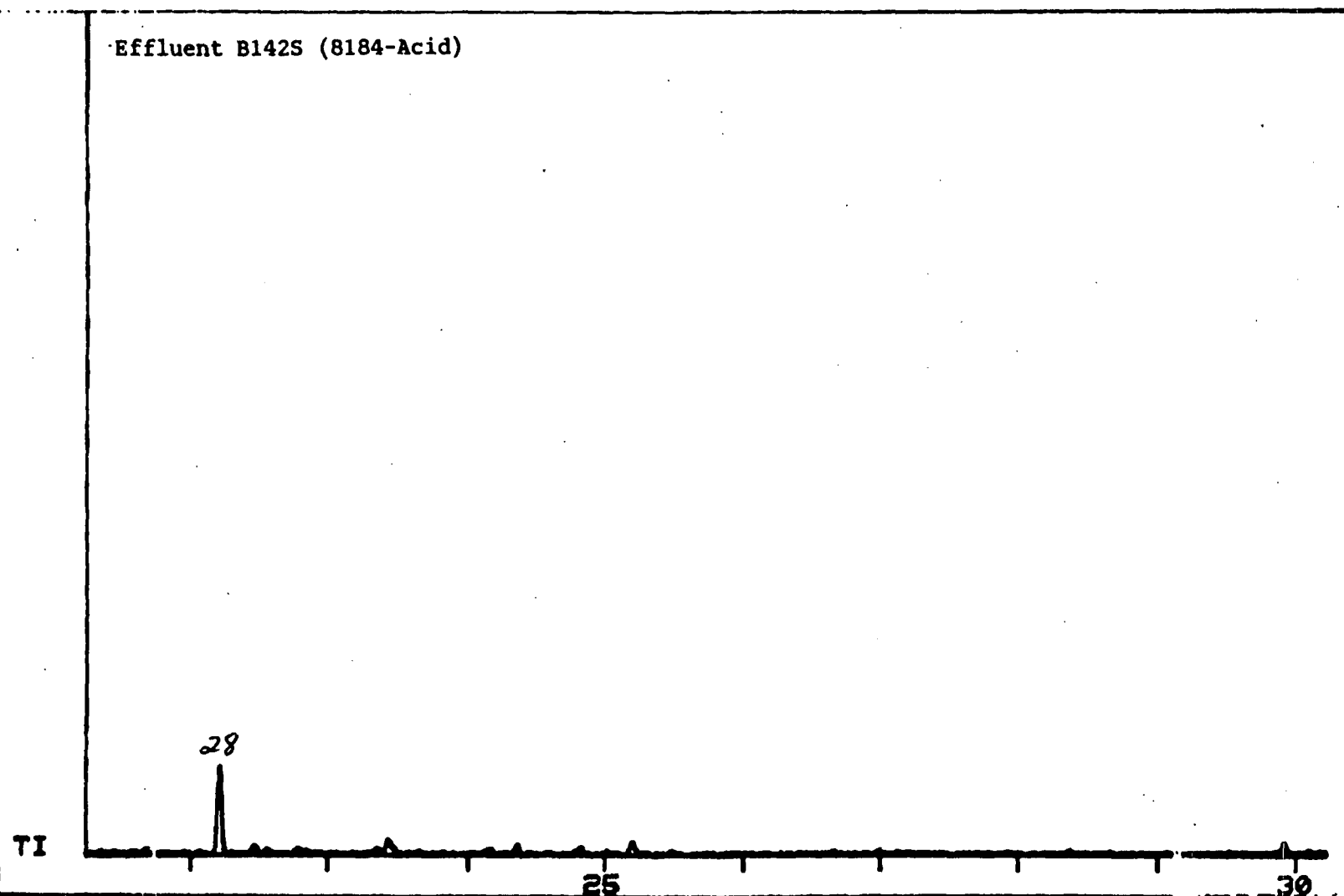


Figure G-25 (continued)

** BATCH PROCESSOR RECONSTRUCT **
1 UL 125/125 D10 + 8184-BNP3 (B142S) 8/13/81 BMH
50(4)-280(89 BTL#8 D13121

FRN 13121
1ST SC/PG: 1
X= .25 Y= 1.00

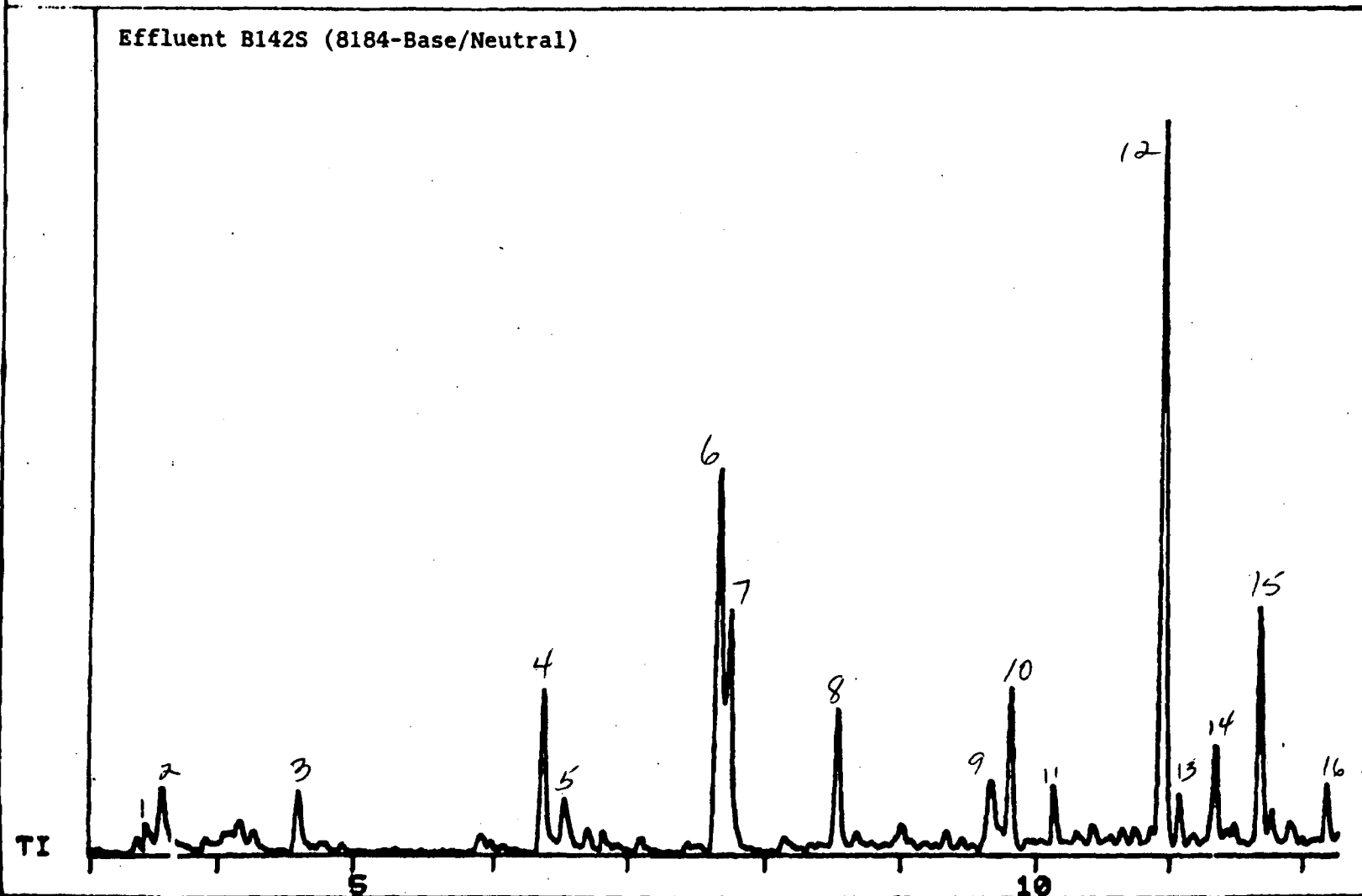


Figure G-26. Total ion chromatogram from GC/MS analysis of extractable organics base/neutral fraction from effluent B142S.

** BATCH PROCESSOR RECONSTRUCT **
1 UL 125/125 D10 + 8184-BNP3 (B142S) 8/13/81 BMH
50(4)-280(89 BTL#8 D13121

FRN 13121
1ST SC/PG: 933
X= .25 Y= 1.00

Effluent B142S (8184-Base/Neutral)

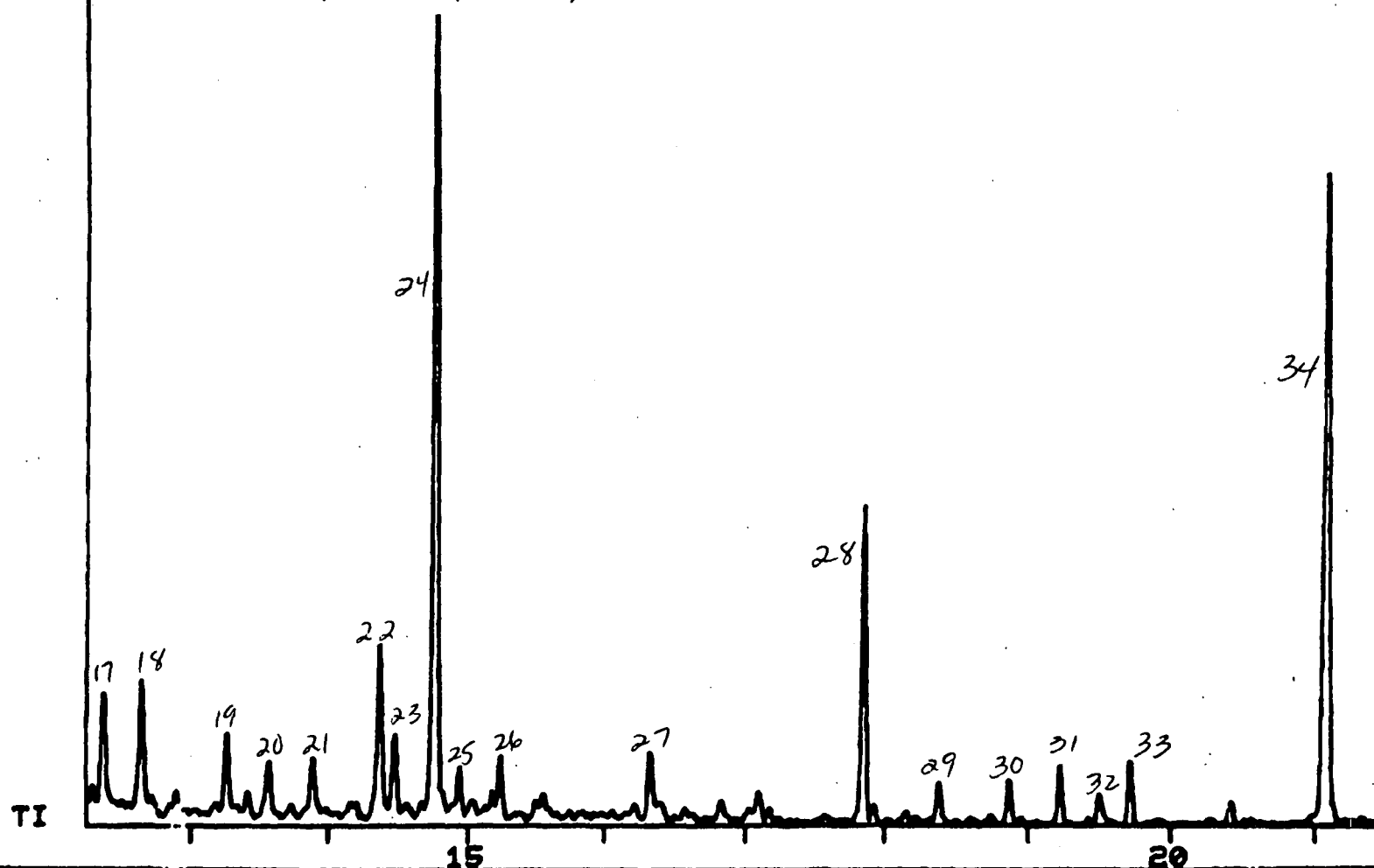


Figure G-26 (continued)

G-95

** BATCH PROCESSOR RECONSTRUCT **
1 UL 125/125 D10 + 8184-BNP3 (B142S) 8/13/81 BMH
50(4)-280(89 BTL#8

FRN 13121
1ST SC/PG:1865
X= .25 Y= 1.00

Effluent B142S (8184-Base/Neutral)

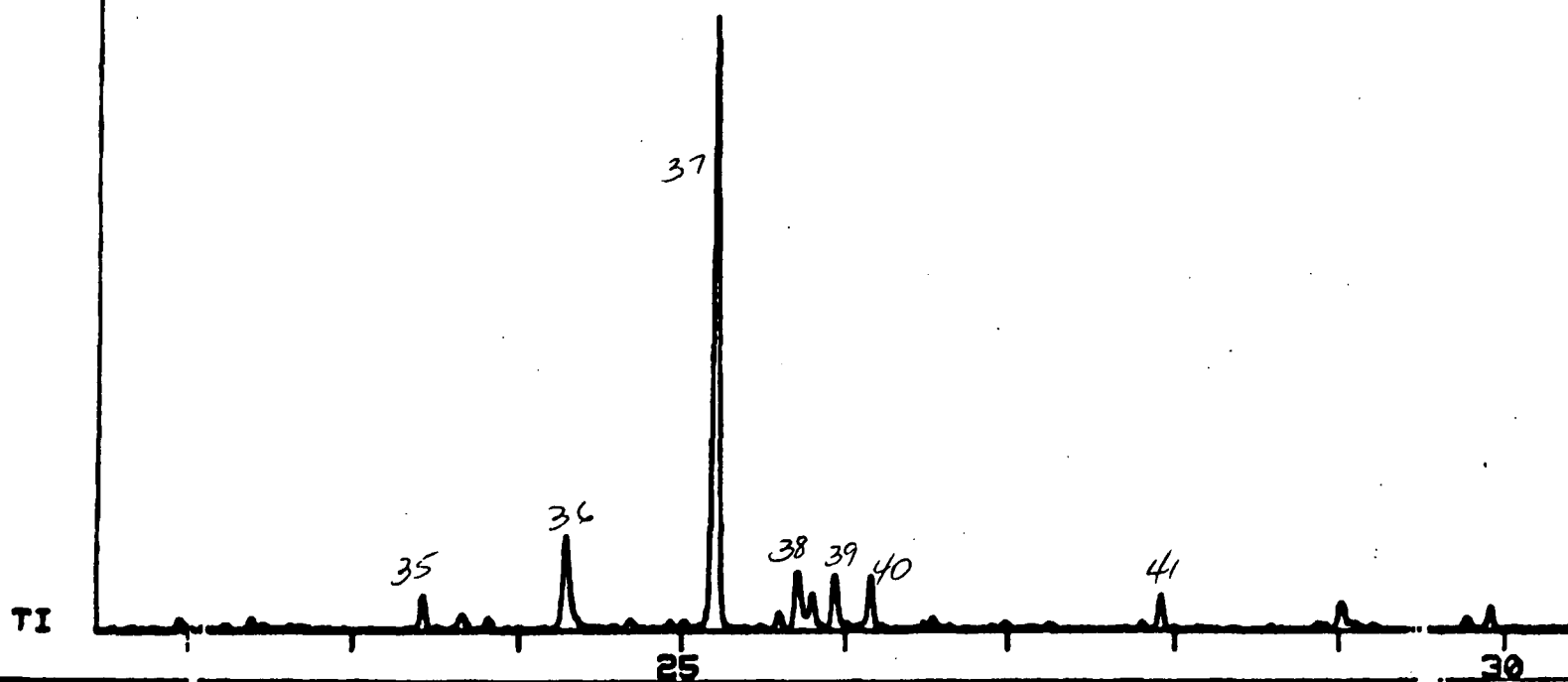


Figure G-26 (continued)

** BATCH PROCESSOR RECONSTRUCT **
1 UL 125/125 D10 + 8184-BNP3 (B142S) 8/13/81 BMH
50(4)-280(89 BTL#8 D13121

FRN 13121
1ST SC/PG:2797
X= .25 Y= 1.00

Effluent B142S (8184-Base/Neutral)

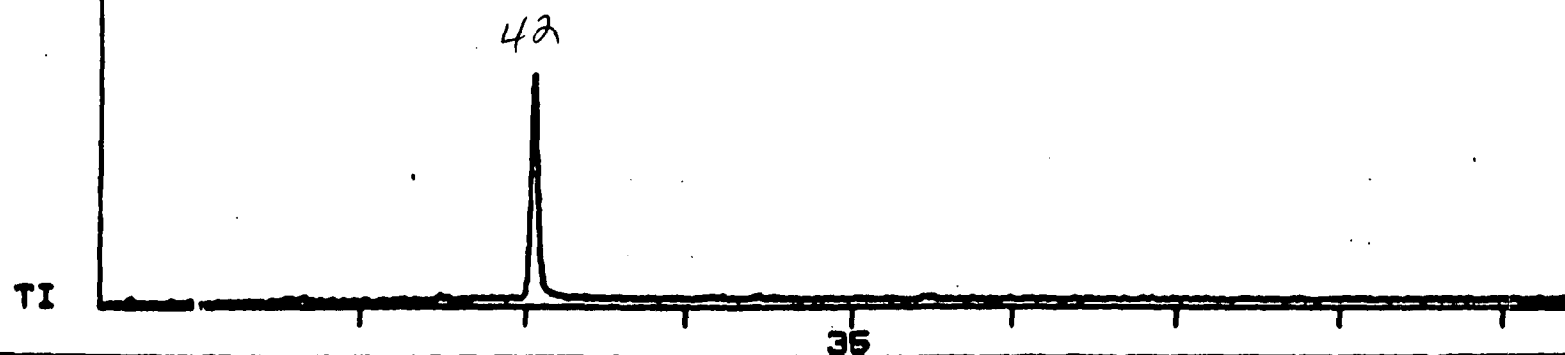


Figure G-26 (continued)

G-97

** BATCH PROCESSOR RECONSTRUCT **
1 UL 125/125 D10 + 8193-ANP3 8/14/81 BMH
50(4)-280(8) BTL#22 D13157

FRN 13157
1ST SC/PG: 1
X= .25 Y= 1.00

Effluent B149S (8193-Acid)

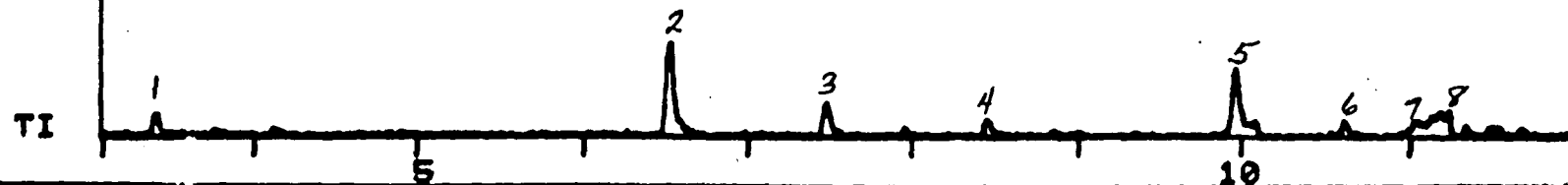


Figure G-27. Total ion chromatogram from GC/MS analysis of extractable organics acid fraction from effluent B149S.

** BATCH PROCESSOR RECONSTRUCT **
1 UL 125/125 D10 + 8193-ANP3 8/14/81 BMH
50(4)-280(8) BTL#22 D13157

FRN 13157
1ST SC/PG: 933
X= .25 Y= 1.00

Effluent B149S (8193-Acid)

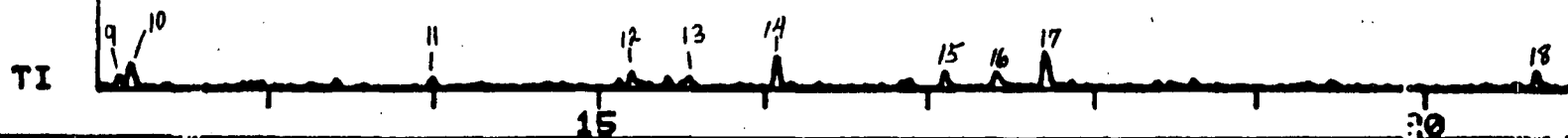
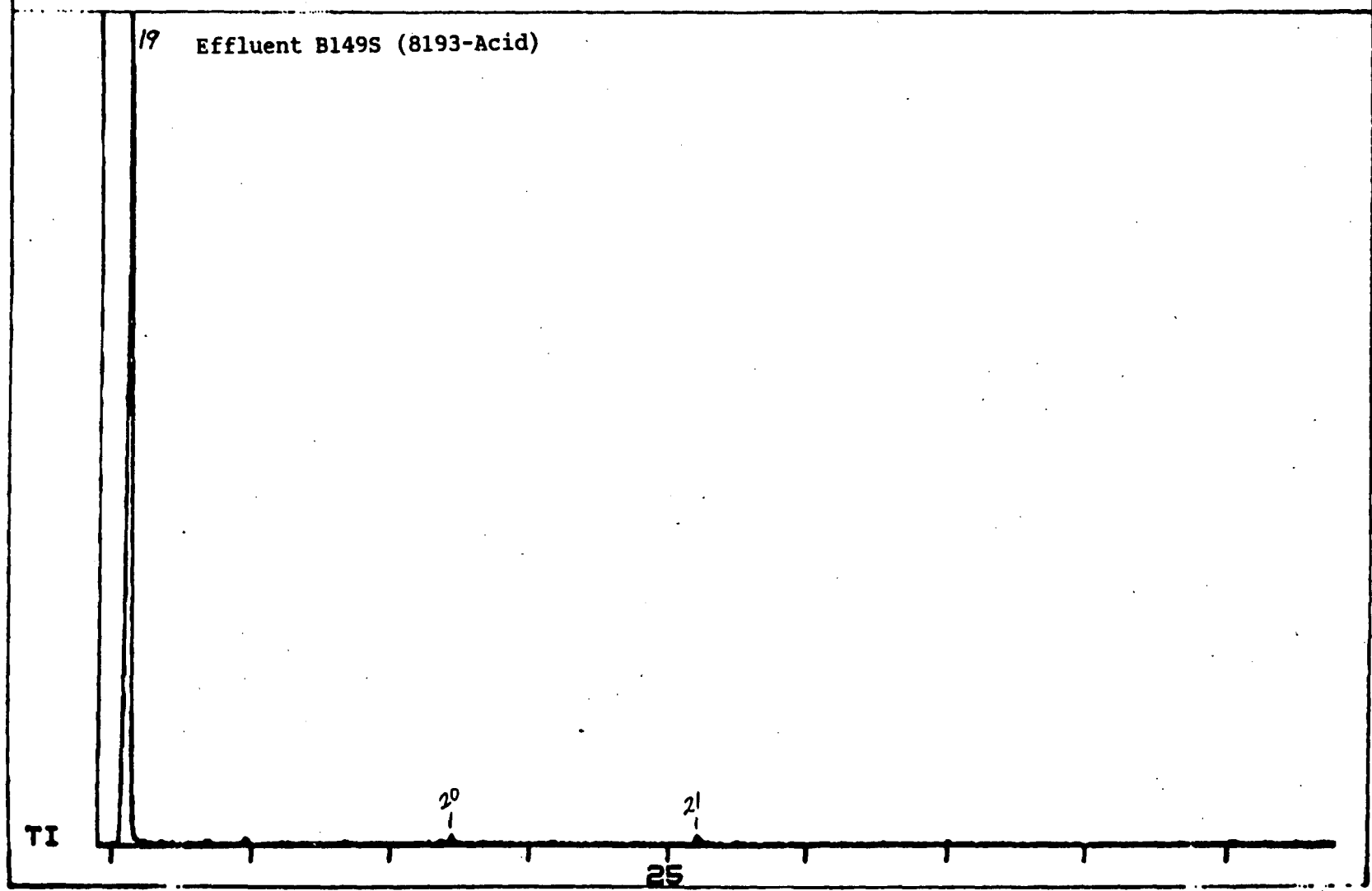


Figure G-27 (continued)

G-99

1 UL 125/125 D10 + 8193-ANP3 8/14/81 BMH
50(4)-280(8) BTL#22 D13157

FRN 13157
1ST SC/PG:1865
X= .25 Y= 1.00



G-100

Figure G-27 (continued)

** BATCH PROCESSOR RECONSTRUCT **
1 UL 125/125 D10 + 8193-BNP3 (DIL 1:10) 8/14/81 BMH
50(4)-280(8) BTL#8 D13143

FRN 13143
1ST SC/PG: 1
X= .25 Y= 1.00

Effluent B149S (8193-Base/Neutral)

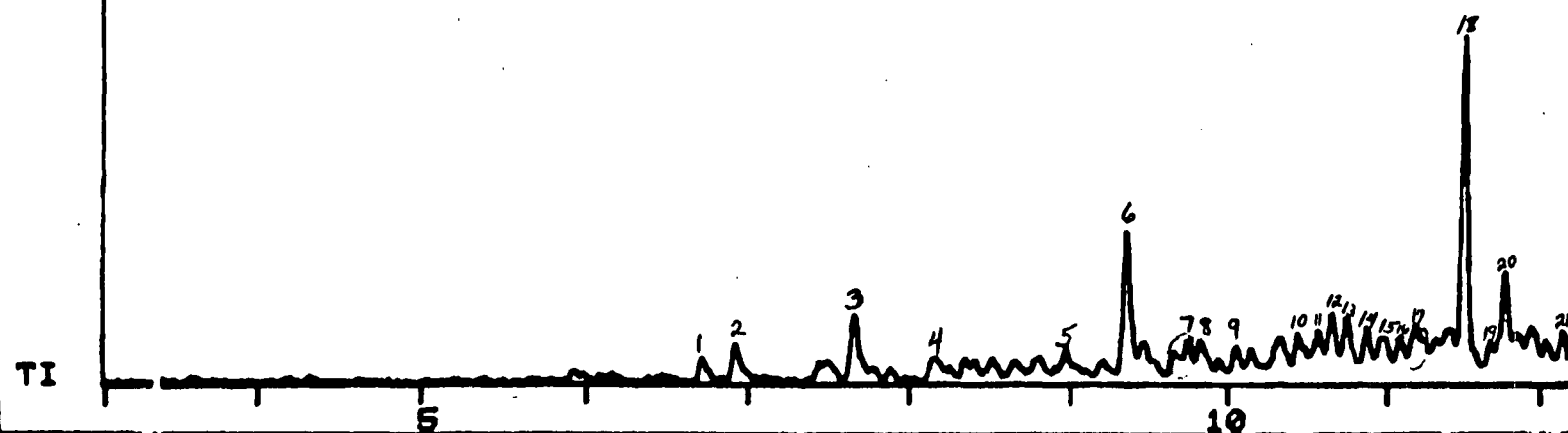


Figure G-28. Total ion chromatogram from GC/MS analysis of extractable organics base/neutral fraction from effluent B149S.

** BATCH PROCESSOR RECONSTRUCT **
1 UL 125/125 D10 + 8193-BNP3 (DIL 1:10) 8/14/81 BMH
50(4)-280(8) BTL#8 D13143

FRN 13143
1ST SC/PG: 933
X= .25 Y= 1.00

Effluent B149S (8193-Base/Neutral)

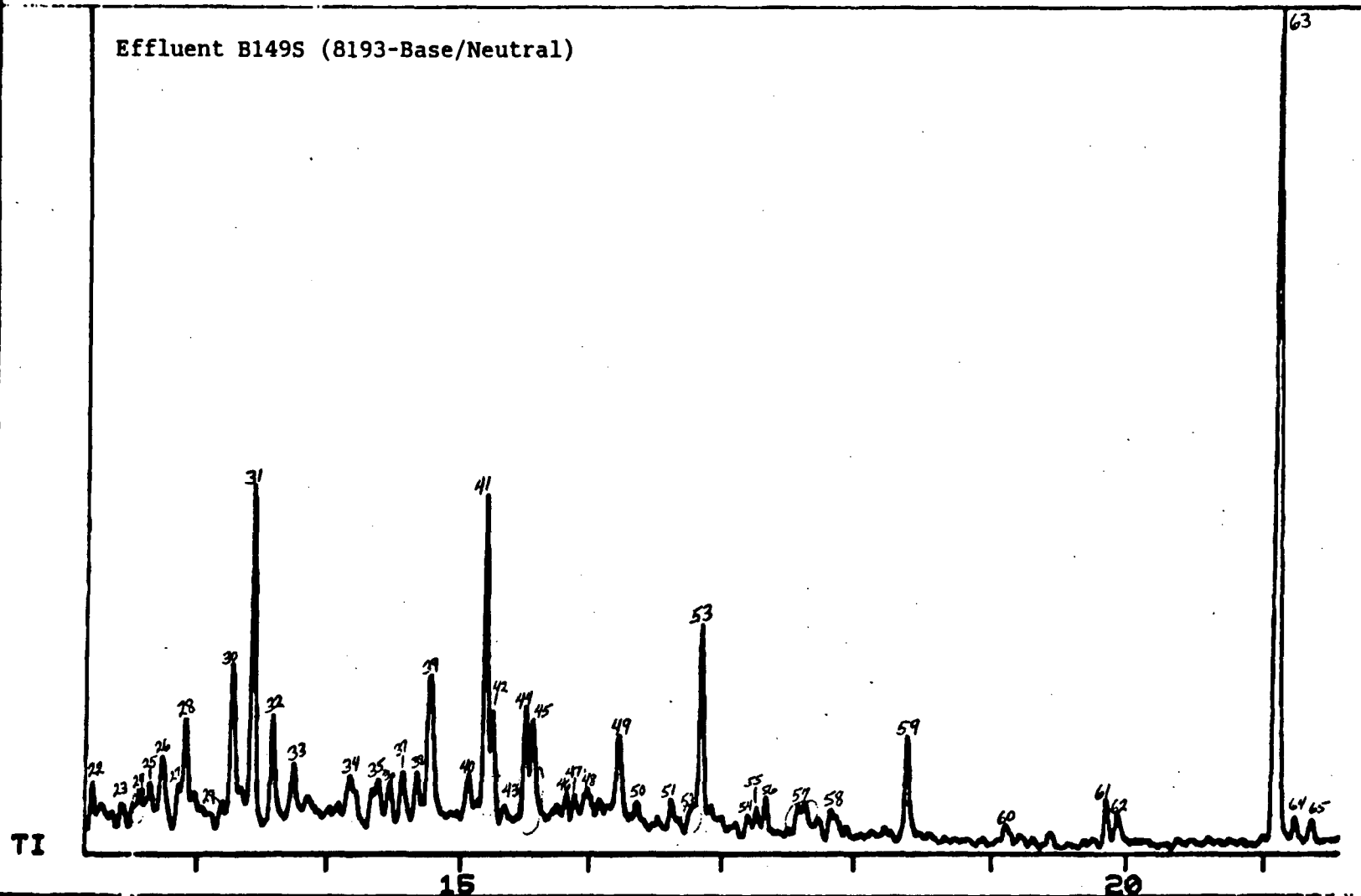


Figure G-28 (continued)

** BATCH PROCESSOR RECONSTRUCT **
1 UL 125/125 D10 + 8193-BNP3 (DIL 1:10) 8/14/81 BMH
50(4)-280(8) BTL#8

D13143

FRN 13143
1ST SC/PG:1865
X= .25 Y= 1.00

Effluent B149S (8193-Base/Neutral)

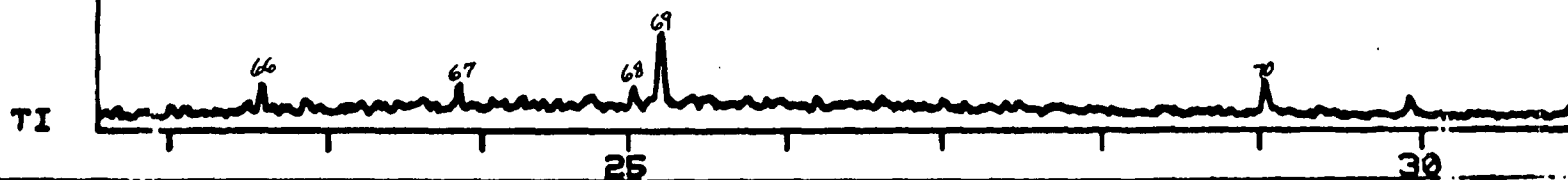


Figure G-28 (continued)

APPENDIX H

RELATIVE RETENTION INDICES OF PHASE III SEDIMENTS

A discussion of the generation of these data is contained in Appendix C, Section 10.

TABLE H-1. RELATIVE RETENTION INDICES FOR SEDIMENT SAMPLE A109

PROCESSED FILE: *PRC32 Sediment A109 (8400)
 RAW FILE: CBS33

SAMPLE NAME: SED 8400

RELATIVE RETENTION VALUES

OUTPUT FILE: OFF3

PEAK#	AREA	TIME	INDEX
1	2.26263E+06	2.22322	***
2	1.16865E+06	2.28135	***
3	6.61620E+07	2.29583	***
4	1784.19	3.4822	***
5	7008.94	3.71597	***
6	14432.2	11.1598	***
7	10169.8	12.4664	***
8	23010.7	19.606	***
9	1579.75	19.8146	102.039
10	4749.75	21.5191	127.865
11	2015.36	23.1266	152.222
12	1288.12	26.2471	199.501
13	1210.87	30.1134	284.066
14	23870.7	30.7795	298.674
15	16744.1	34.8479	397.754
16	7817.87	41.124	497.847

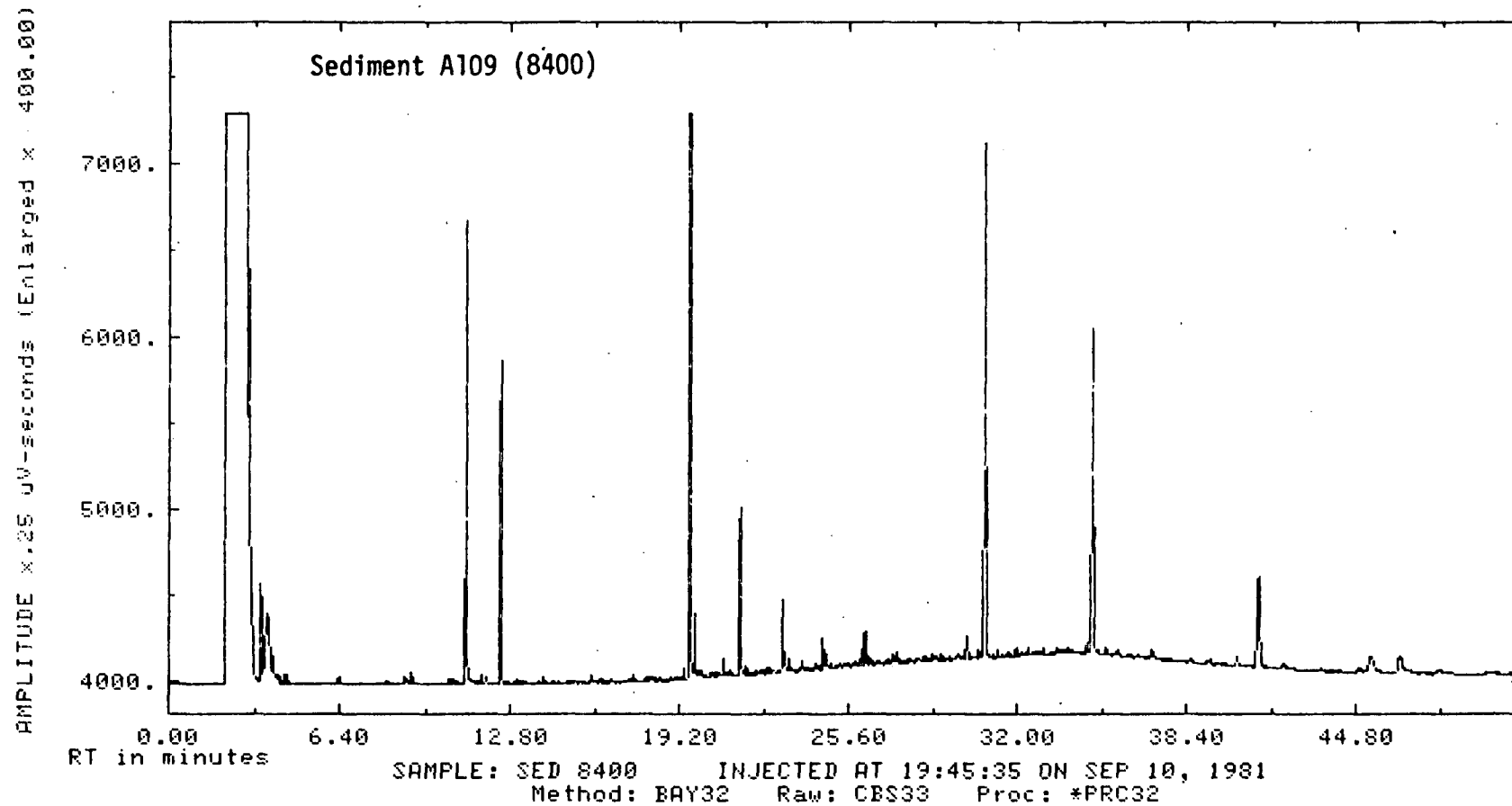


Figure H-1. FID/GC chromatogram for sediment sample A109.

TABLE H-2. RELATIVE RETENTION INDICES FOR SEDIMENT SAMPLE B112D

PROCESSED FILE: *PRC32 Sediment B112D (8380) DIL 1:5
 RAW FILE: CBS10

SAMPLE NAME: SED 8380 DIL

RELATIVE RETENTION VALUES

OUTPUT FILE: OPF3

PEAK#	AREA	TIME	INDEX
1	4234.05	2.14964	***
2	63147.6	2.21207	***
3	6.86382E+07	2.25208	***
4	12993.9	3.70573	***
5	16801.1	11.1376	***
6	7445.75	12.4584	***
7	1007.75	12.7453	***
8	3961.25	15.8949	***
9	2702	18.1093	***
10	37269.2	19.6109	***
11	1617.75	19.8205	102.129
12	3246.27	20.9837	119.753
13	6111.87	21.5307	128.041
14	1222	21.5806	128.796
15	3556.97	22.1049	136.742
16	1157.19	22.769	146.803
17	4468.02	23.1422	152.458
18	6877	23.2135	153.539
19	1640.34	24.6594	175.446
20	2209.56	26.1096	197.418
21	24858.7	26.2742	199.912
22	2046.24	26.3511	201.559
23	26506.2	26.4263	203.208

TABLE H-2 (continued)

24	5116.44	27.0098	216.003
25	1753.72	27.3179	222.761
26	1088.87	27.8777	235.037
27	1144.99	28.0679	239.209
28	1737.59	28.0807	239.489
29	6056.14	28.2278	242.714
30	3612.95	28.2385	242.95
31	8320.47	28.6596	252.185
32	2238.19	28.9172	257.833
33	2204.67	28.9319	258.157
34	2043.98	29.8274	277.793
35	10722.2	29.9652	280.816
36	1350.23	30.0017	281.617
37	63399.7	30.1691	285.286
38	16432.4	30.6656	296.176
39	2176.17	30.6738	296.355
40	4132.88	30.6875	296.656
41	2612.67	30.7013	296.959
42	2315.49	30.7127	297.208
43	2179.43	30.7258	297.495
44	104390.	30.8786	300.94
45	3691.8	31.0926	306.162
46	5795.72	31.2854	310.864
47	1116.68	31.6545	319.866
4	1798.65	31.6655	320.135
49	1177.72	31.8312	324.177
50	27009.4	32.013	328.609
51	18159.4	32.2242	333.761
52	1335.66	32.3399	336.584
53	2223.69	32.618	343.365
54	2223.55	32.7195	345.842
55	1217.53	33.395	362.317
56	1123.23	33.4401	363.418
57	1304.16	33.6188	367.774

TABLE H-2 (continued)

58	1189.16	33.6717	369.066
59	8249.52	34.0106	377.331
60	5116.68	34.1328	380.313
61	4723.73	34.1527	380.798
62	2877.67	34.5407	390.262
6	5759.28	34.616	392.097
64	7967.86	34.6867	393.821
65	62139.9	34.8805	398.549
66	26102.6	34.9031	399.1
67	6479.2	34.9489	400.141
68	30521.6	34.9869	400.742
69	1149.1	35.1071	402.644
70	4022.55	35.2478	404.87
71	3085.77	35.2659	405.156
72	5338.73	36.3902	422.945
73	1252.22	36.5604	425.639
74	1364.45	36.73	428.323
75	3609.12	36.756	428.733
76	2343.7	36.8997	431.009
77	1023.41	36.9195	431.322
78	1515.71	36.9377	431.61
79	2666.57	36.9806	432.287
80	1080.52	37.1344	434.721
81	1126.59	39.1058	465.914
82	17433.	39.2698	468.509
83	6749.07	39.2831	468.72
84	13740.2	39.3229	469.35
85	1988.02	39.6804	475.007
86	3187.69	39.7254	475.719
87	1641.72	40.326	485.222
8	5922.05	40.5685	489.059
8.	4951.5	40.5944	489.468
90	12927.	40.8551	493.593
91	19588.2	41.1787	498.714

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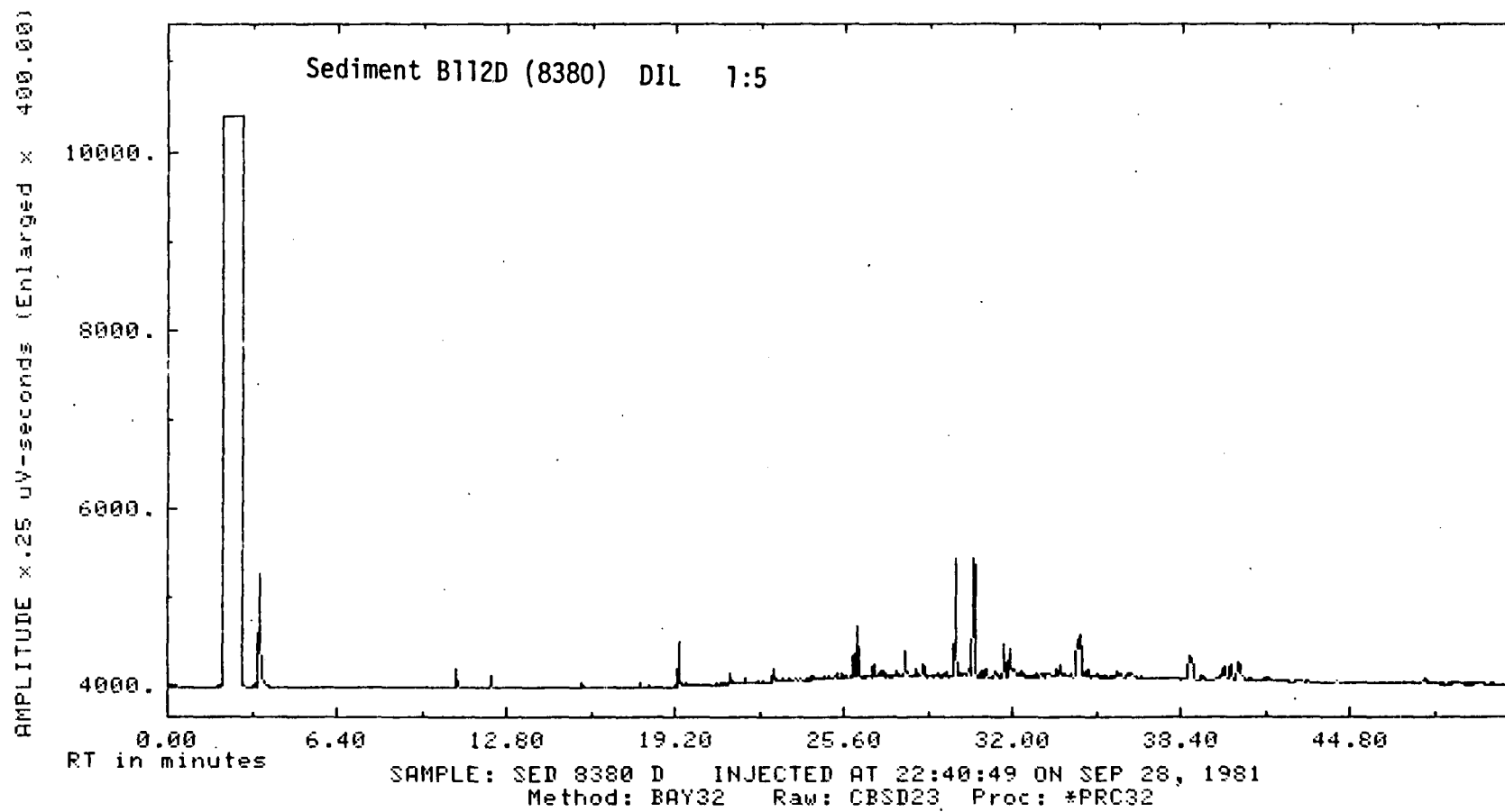


Figure H-2. FID/GC chromatogram for sediment sample B112D.

TABLE H-3. RELATIVE RETENTION INDICES FOR SEDIMENT SAMPLE B119D

PR ESED FILE: *PRC32 Sediment B119D (8404)
 RAW FILE: CBS40

SAMPLE NAME: SED 8404

RELATIVE RETENTION VALUES

OUTPUT FILE: OFF3

PEAK#	AREA	TIME	INDEX
1	2.09625E+06	2.22594	***
2	6.81155E+07	2.27708	***
3	211450.	2.91147	***
4	2066.3	3.4671	***
5	8319.16	3.71792	***
6	14938.3	11.1543	***
7	11635.4	12.4599	***
8	26306.8	19.6055	***
9	1112	26.675	208.662
10	1162.25	27.2719	221.752
11	1666.94	29.0117	259.906
12	31033.5	30.7787	298.656
13	23467.5	34.8482	397.761
14	10983.4	41.1188	497.765

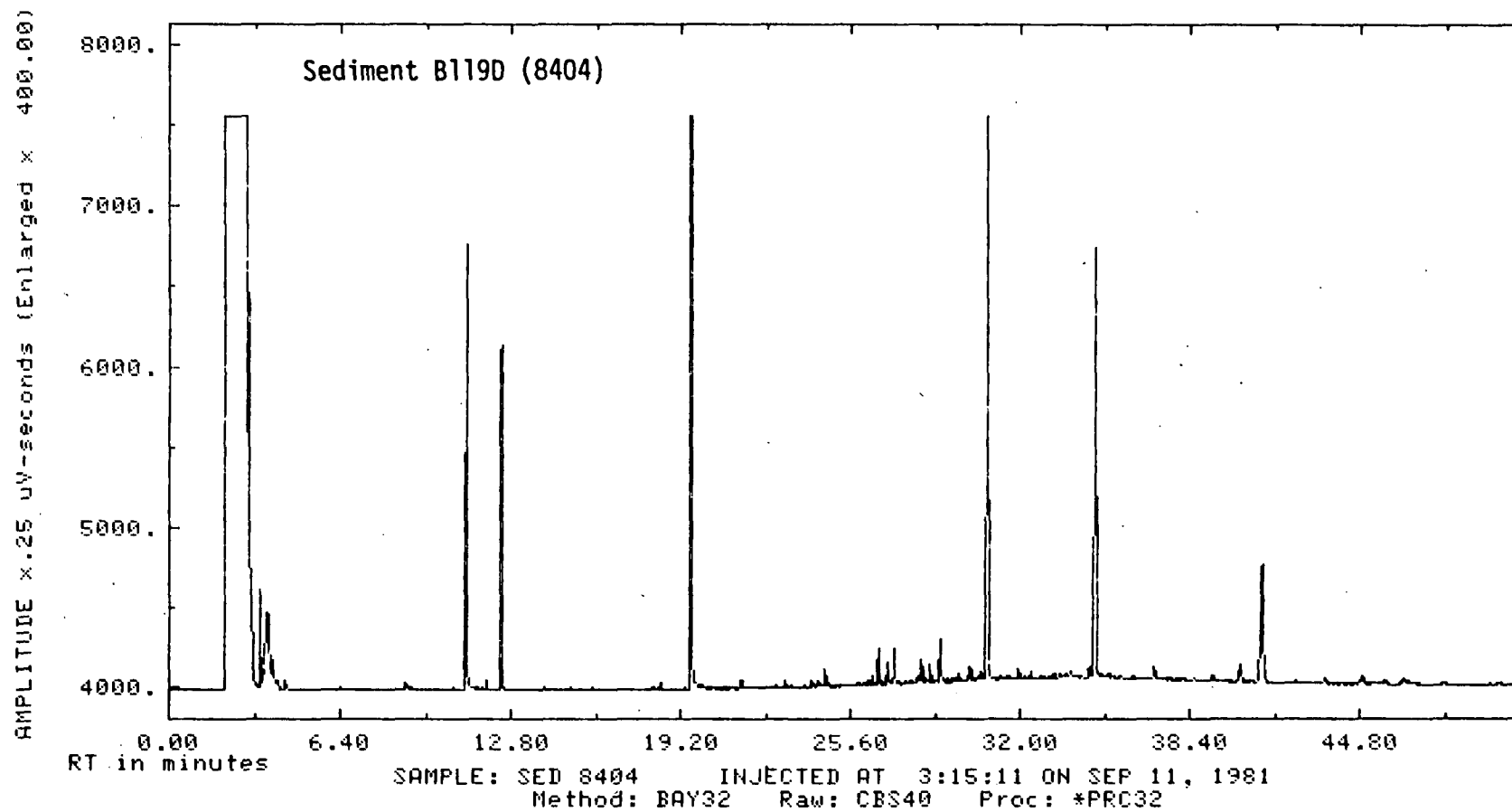


Figure H-3. FID/GC chromatogram for sediment sample B119D.

TABLE H-4. RELATIVE RETENTION INDICES FOR SEDIMENT SAMPLE C150D

PROCESSED FILE: *PRC32 Sediment C150D (8393)
 RAW FILE: SED26

SAMPLE NAME: SED 8393

RELATIVE RETENTION VALUES

OUTPUT FILE: OFF3

PEAK#	AREA	TIME	INDEX
1	2509.97	2.22169	***
2	7.17189E+07	2.24583	***
3	13602.9	3.69792	***
4	9344.75	11.126	***
5	3108.44	12.4449	***
6	28057.6	19.5973	***
7	5566.75	19.806	101.908
8	18208.2	21.516	127.819
9	7915.37	23.1189	152.104
10	2756.3	24.6412	175.17
11	1104.06	26.0866	197.07
12	29452	30.7694	298.451
13	21934.5	34.8374	397.497
14	15083.7	41.1235	497.84

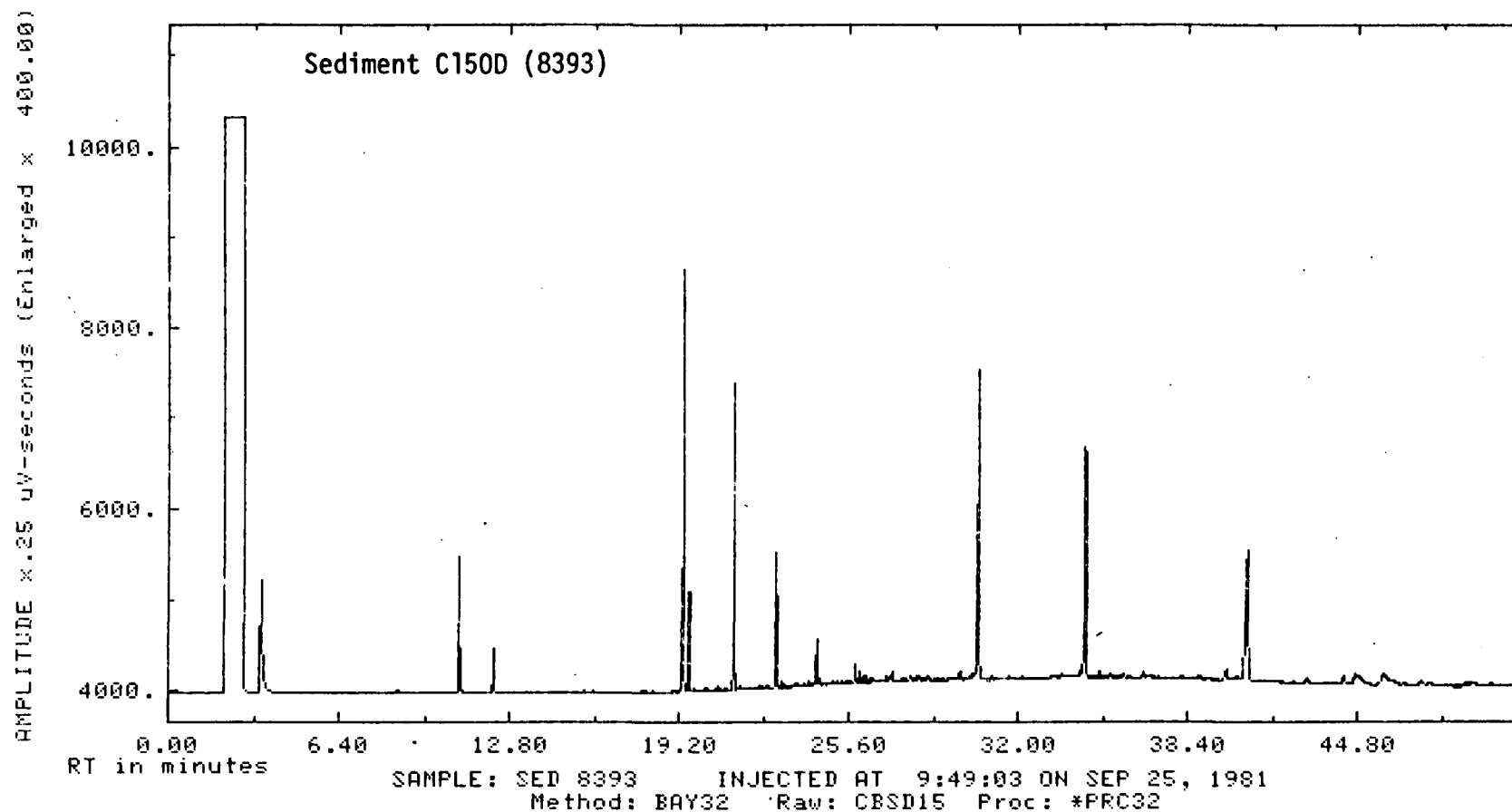


Figure H-4. FID/GC chromatogram for sediment sample C150D.

TABLE H-5. RELATIVE RETENTION INDICES FOR SEDIMENT SAMPLE C156D

RELATIVE RETENTION VALUES

OUTPUT FILE: OPF3		Sediment C156D (8379)	
PEAK#	AREA	TIME	INDEX
1	1.38549E+06	2.12701	***
2	1.47597E+06	2.1729	***
3	9.02103E+07	2.24792	***
4	1610.87	3.19035	***
5	37575.9	11.2199	***
6	24873.2	12.5136	***
7	57799.2	19.6195	***
8	1126.87	28.05	238.816
9	1812.86	28.2776	243.807
10	1409.75	30.5569	293.793
11	85349.2	30.8127	299.402
12	68073.6	34.8843	398.642
13	48306.2	41.193	498.939

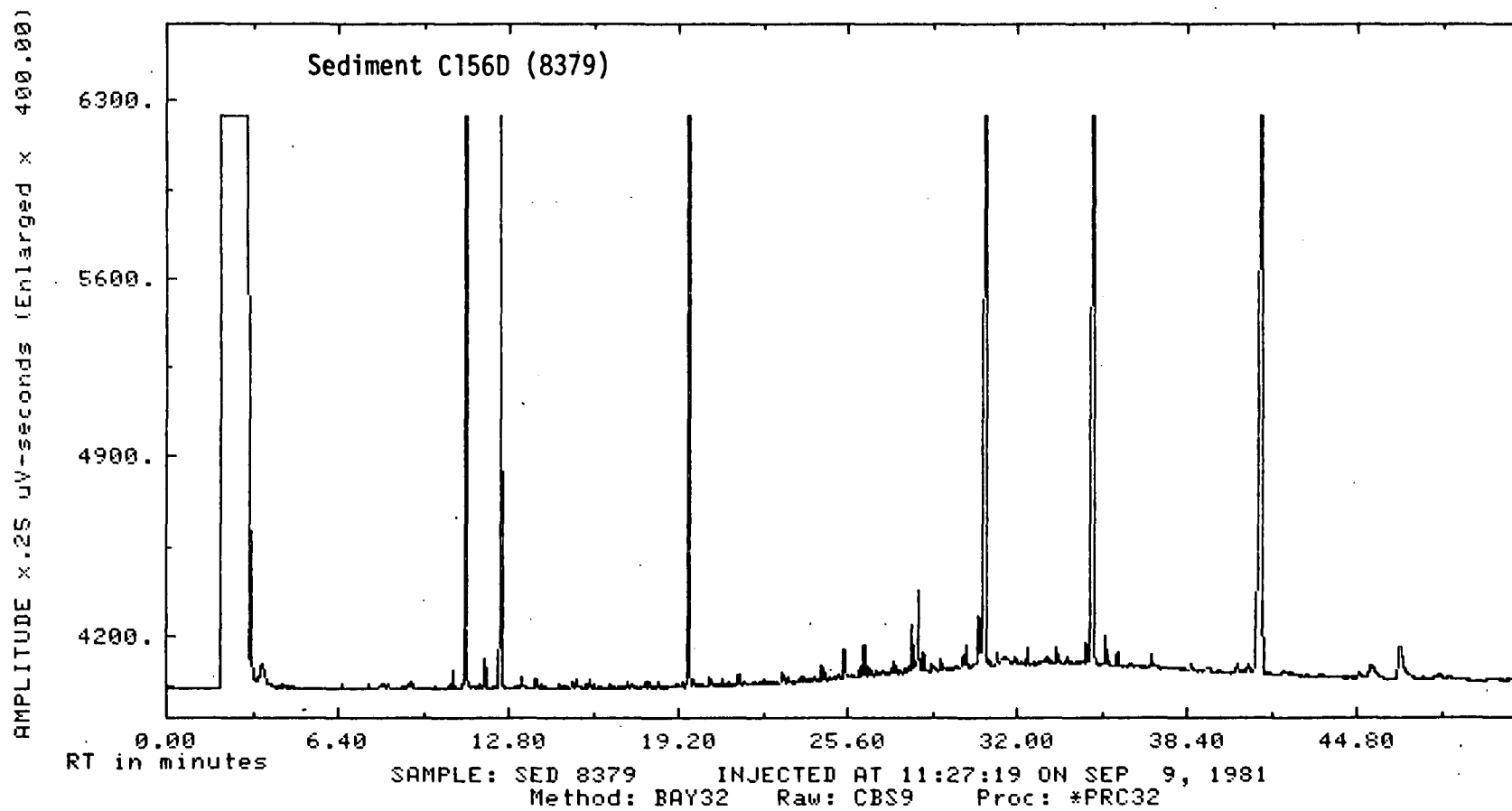


Figure H-5. FID/GC chromatogram for sediment sample C156D.

TABLE H-6. RELATIVE RETENTION INDICES FOR SEDIMENT SAMPLE C157D

PROCESSED FILE: *PRC32 Sediment C157D (8403)
 RAW FILE: CBS39

SAMPLE NAME: SED 8403

RELATIVE RETENTION VALUES

OUTPUT FILE: OFF3

PEAK#	AREA	TIME	INDEX
1	2.39476E+06	2.23002	***
2	6.85879E+07	2.27708	***
3	2134.8	3.48307	***
4	8102.16	3.71042	***
5	13617	11.1552	***
6	10100.5	12.4629	***
7	22505.5	19.6013	***
8	2848.37	21.5145	127.795
9	1221.06	23.1236	152.176
10	27238.5	30.7771	298.621
11	20839.5	34.8451	397.685
12	1084.25	40.313	485.016
13	10691.2	41.1203	497.79

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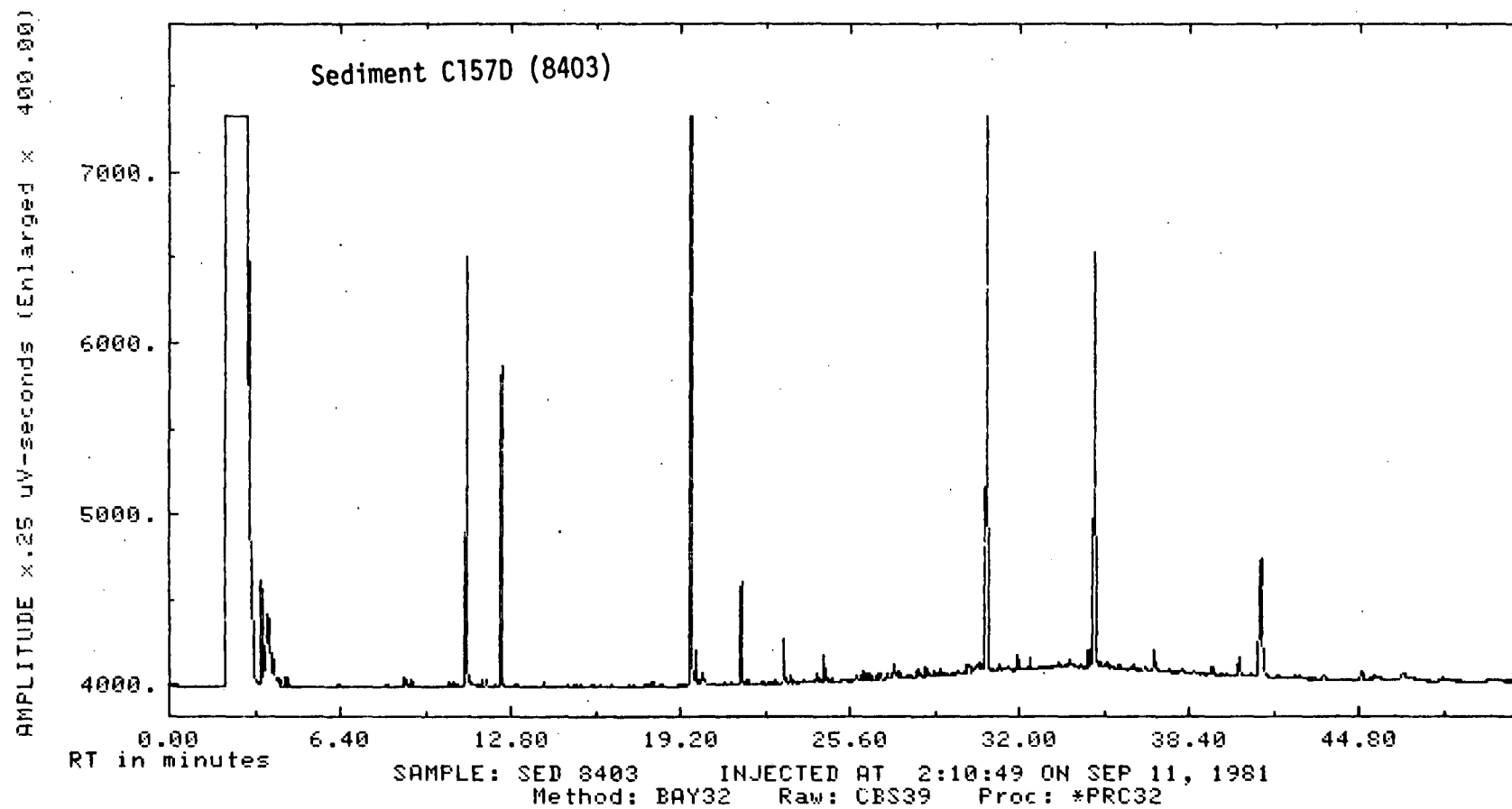


Figure H-6. FID/GC chromatogram for sediment sample C157D.

TABLE H-7. RELATIVE RETENTION INDICES FOR SEDIMENT SAMPLE C161D

PROCESSED FILE: *PRC32 Sediment C161D (8377)
 RAW FILE: CRS7

SAMPLE NAME: SED 8377

RELATIVE RETENTION VALUES

OUTPUT FILE: OFF3

PEAK#	AREA	TIME	INDEX
1	762463.	2.14319	***
2	8.73528E+07	2.27292	***
3	1266.81	3.06172	***
4	3634.75	3.66528	***
5	9918.75	5.58042	***
6	18808.2	11.1719	***
7	13775.4	12.4782	***
8	34587.	19.5962	***
9	1106.87	24.7301	176.516
10	1149.19	25.4993	188.171
11	1402	26.2319	199.272
12	2682.16	28.0506	238.829
13	2716.62	28.2748	243.745
14	5795.34	30.5525	293.696
15	48789.7	30.777	298.619
16	36232.2	34.845	397.682
17	1334.81	35.3599	406.644
18	28698.1	41.1383	498.074
19	5673.37	45.3104	543.647
20	7335.62	46.4464	555.887

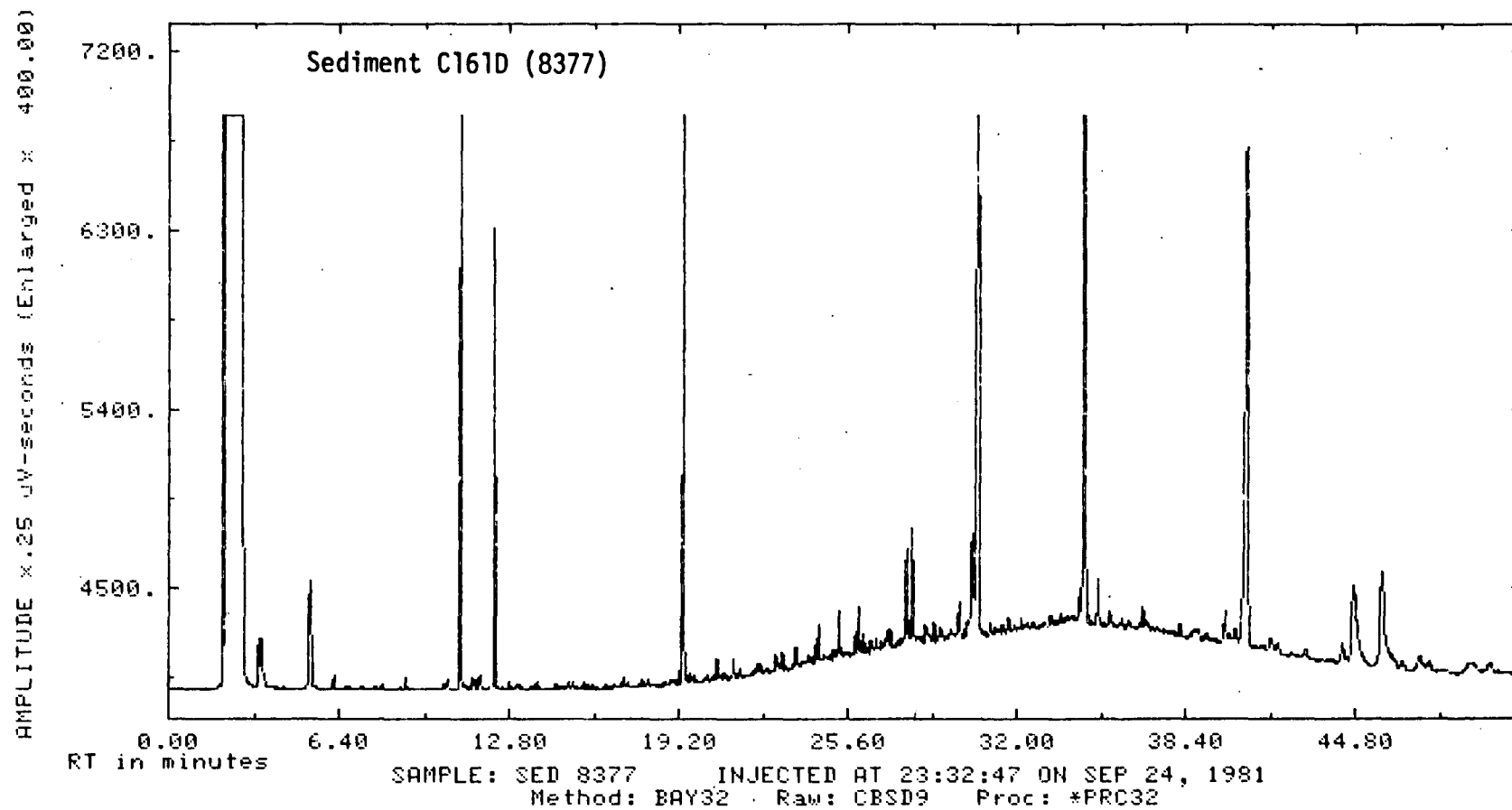


Figure H-7. FID/GC chromatogram for sediment sample C161D.

TABLE H-8. RELATIVE RETENTION INDICES FOR SEDIMENT SAMPLE C164D

PROCESSED FILE: *PRC32 Sediment C164D (8407)
 RAW FILE: CBS44

SAMPLE NAME: SED 8407

RELATIVE RETENTION VALUES

OUTPUT FILE: OFF3

PEAK#	AREA	TIME	INDEX
1	1.70923E+06	2.21744	***
2	6.74994E+07	2.275	***
3	76603.6	2.91529	***
4	1567.37	3.45604	***
5	8945.06	3.73073	***
6	17114.2	11.1536	***
7	11642.8	12.4621	***
8	27101.7	19.6065	***
9	32391.9	30.7808	298.702
10	1061.36	30.8792	300.955
11	24838.2	34.8514	397.84
12	12398.7	41.1229	497.831

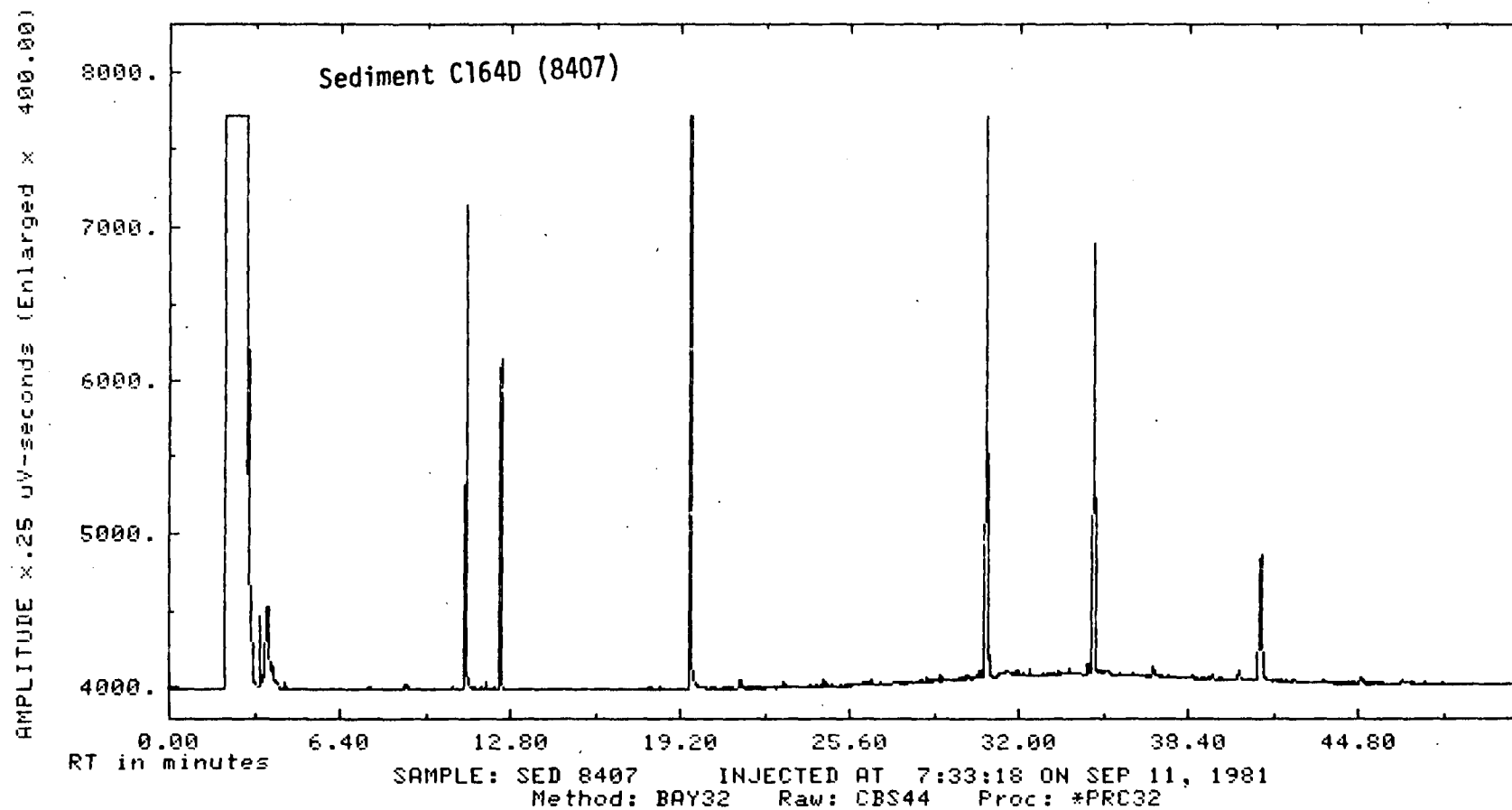


Figure H-8. FID/GC chromatogram for sediment sample C164D.

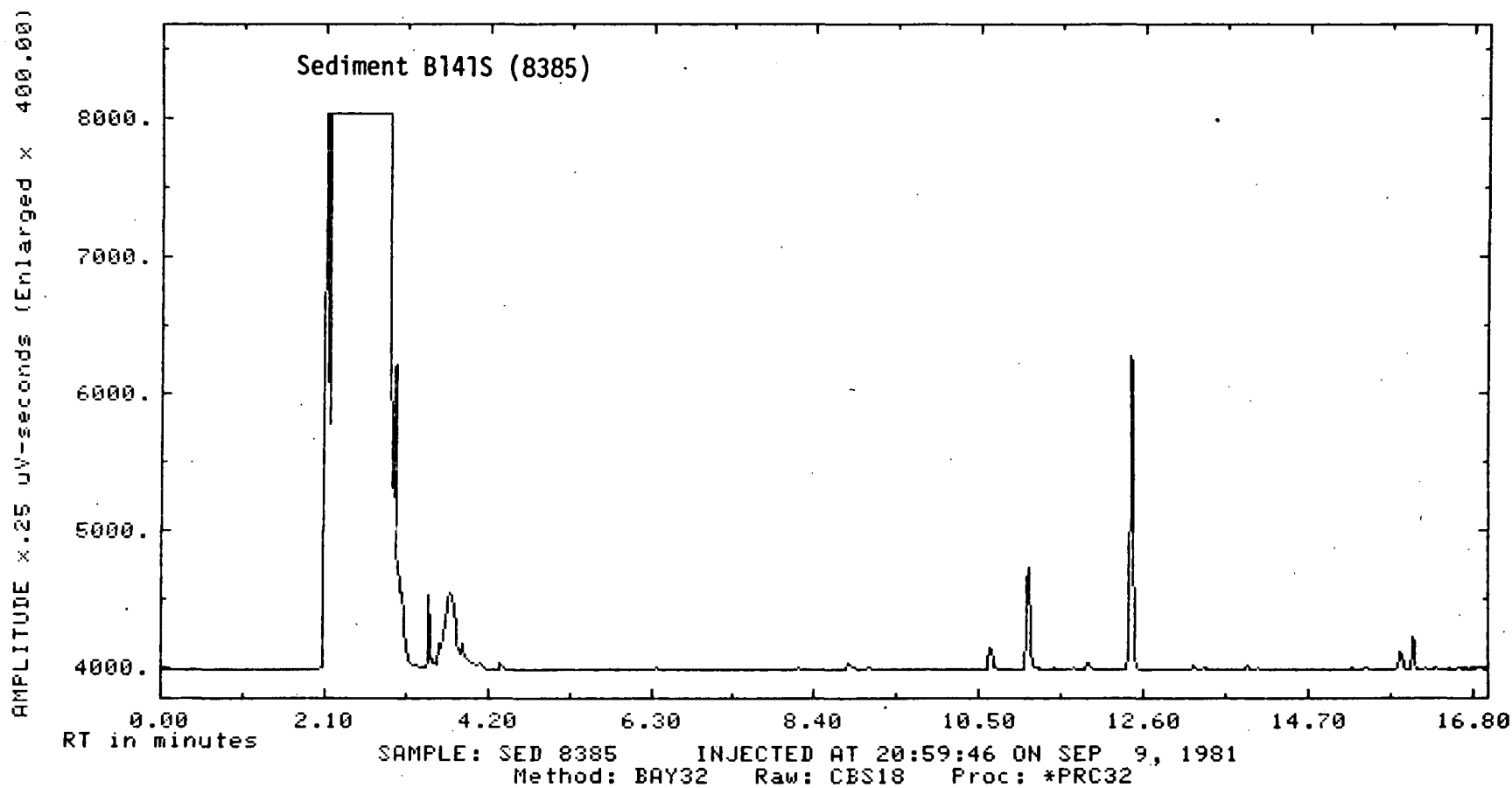


Figure H-9. FID/GC chromatogram for sediment sample B141S.

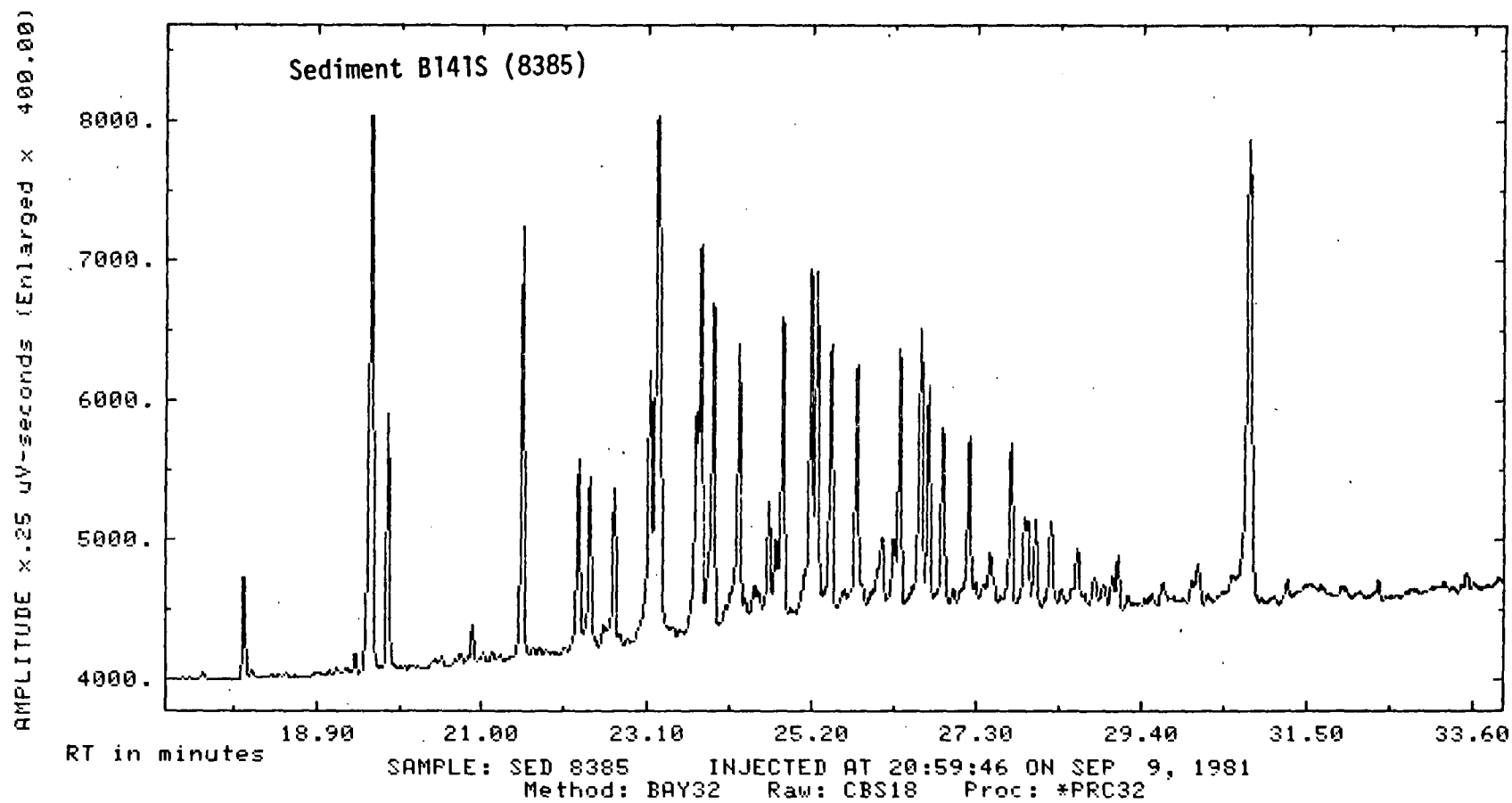


Figure H-9 (continued)

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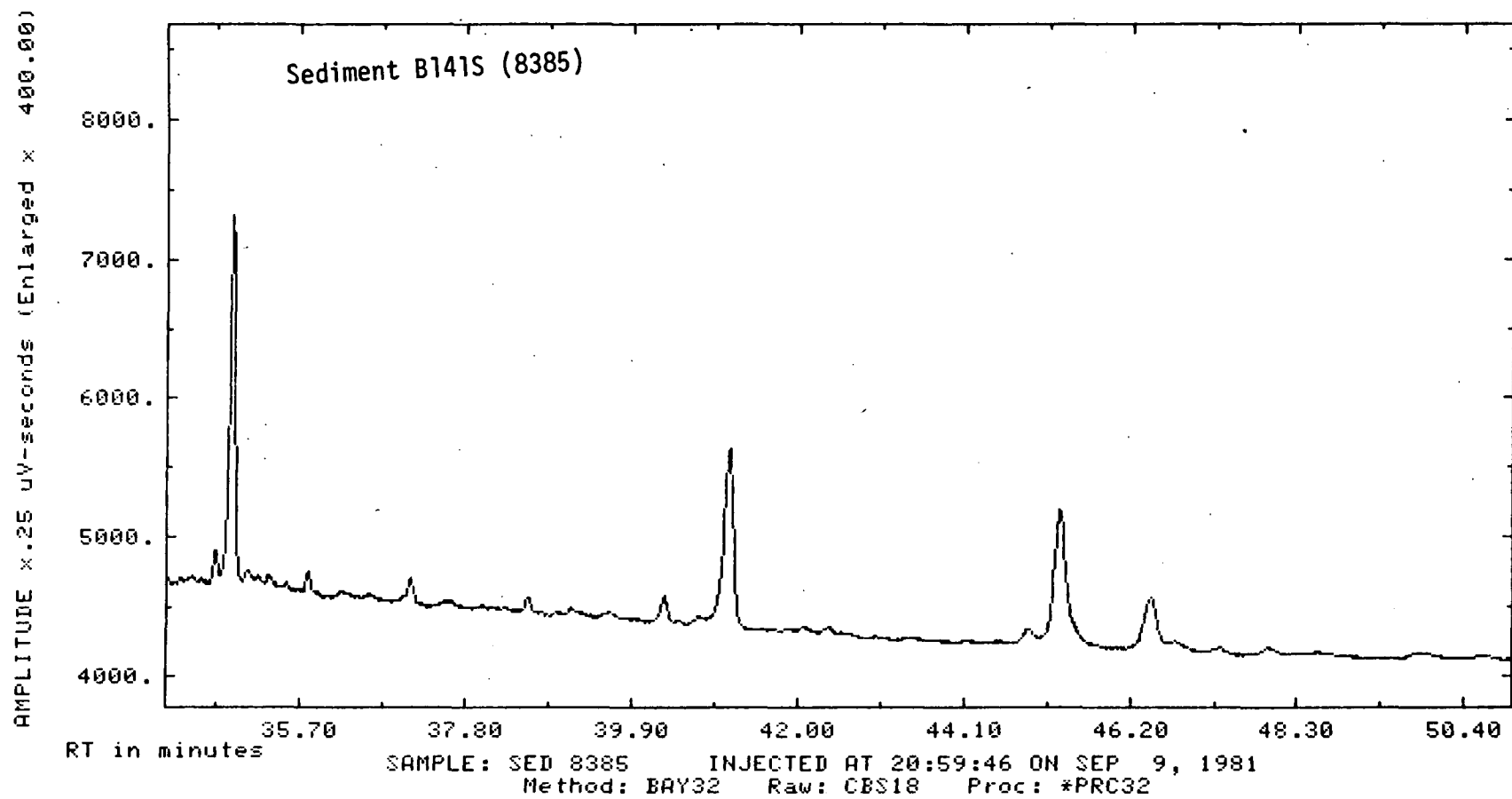


Figure H-9 (continued)

TABLE H-10. RELATIVE RETENTION INDICES FOR SEDIMENT SAMPLE B142S

PROCESSED FILE: *PRC32 Sediment B142S (8386)
 RAW FILE: CBS19

SAMPLE NAME: SED 8386

RELATIVE RETENTION VALUES

OUTPUT FILE: OPF3

PEAK#	AREA	TIME	INDEX
1	831579.	2.13805	***
2	8.37583E+07	2.25208	***
3	42053.7	2.95609	***
4	478429.	3.10026	***
5	8582.52	3.18137	***
6	8507.75	3.62486	***
7	17872.9	11.181	***
8	1261.25	11.8058	***
9	12188.3	12.4856	***
10	1528.75	15.8972	***
11	2639.34	18.1056	***
12	1451.78	18.4448	***
13	1149.73	19.376	***
14	30528.3	19.6051	***
15	7304.8	19.8194	102.113
16	4588.12	20.0644	105.824
17	1130.12	21.166	122.515
18	20279.9	21.5265	127.977
19	9433.28	23.1298	152.269
20	1275.25	23.7785	162.098
21	4902.92	24.6516	175.327
22	1546.82	24.7424	176.702
23	1047.87	25.2663	184.64
24	2060.81	26.1004	197.28
25	2582.56	26.2461	199.486
26	1341.8	27.481	226.339
27	1168.94	27.7454	232.136
28	1117.69	28.2589	243.396
29	33570.	30.7824	298.737
30	1476.47	31.6753	320.374
31	1533.09	32.8597	349.261
32	1272.04	33.5609	366.364
33	28847.4	34.8542	397.906
34	2144.47	35.3673	406.76
35	1377.02	37.1137	434.394
36	2702.25	40.326	485.222
37	20890	41.1521	498.292

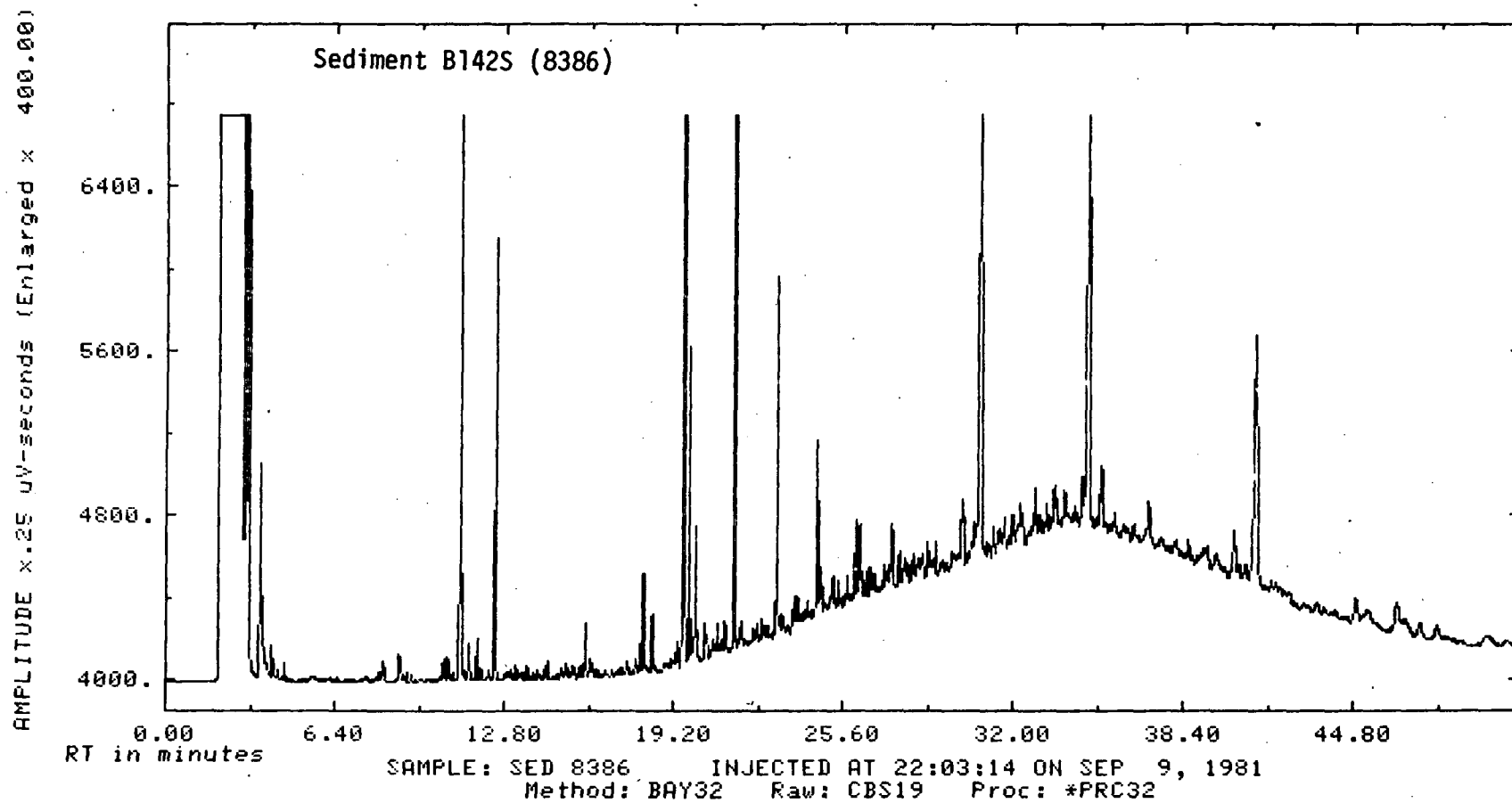


Figure H-10. FID/GC chromatogram for sediment sample B142S.

TABLE H-11. RELATIVE RETENTION INDICES FOR SEDIMENT SAMPLE A101

PROCESSED FILE: *PRC32 Sediment A101 (8406)
 RAW FILE: CBS43

SAMPLE NAME: SED 8406

RELATIVE RETENTION VALUES

OUTPUT FILE: OPF3

PEAK#	AREA	TIME	INDEX
1	1.78216E+06	2.22005	***
2	6.69371E+07	2.275	***
3	94423.2	2.91568	***
4	1330.87	3.45389	***
5	8863.87	3.73333	***
6	15416.2	11.1522	***
7	8808.25	12.459	***
8	26942	19.6056	***
9	30037	30.7792	298.666
10	22632.6	34.8495	397.793
11	1423.5	40.3139	485.03
12	11852.5	41.1198	497.781

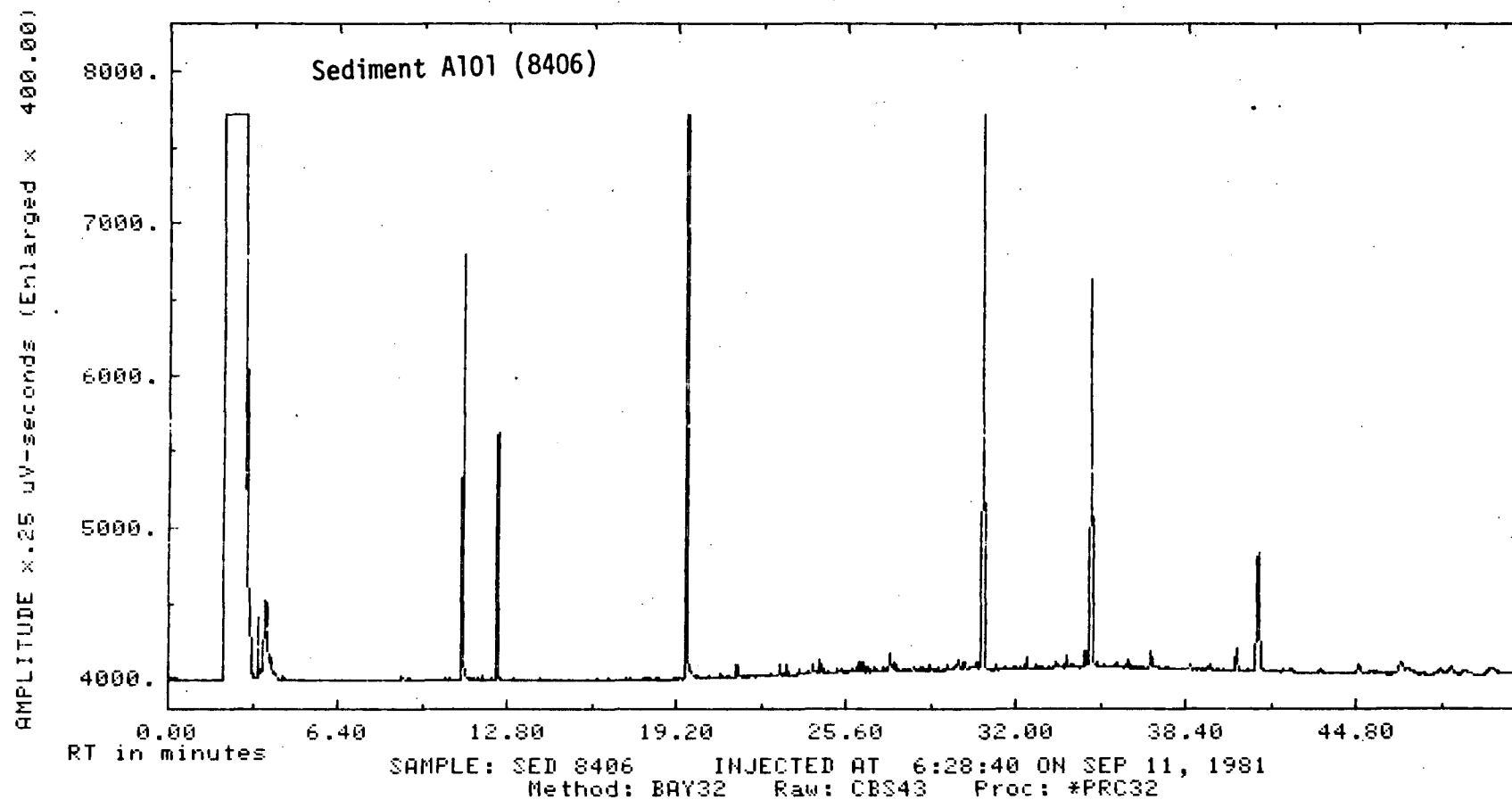


Figure H-11. FID/GC chromatogram for sediment sample A101.

TABLE H-12. RELATIVE RETENTION INDICES FOR SEDIMENT SAMPLE B113D

PROCESSED FILE: *PRC32 Sediment B113D (8401)
 RAW FILE: CBS34
 SAMPLE NAME: SED 8401

RELATIVE RETENTION VALUES

OUTPUT FILE: OPF3

PEAK#	AREA	TIME	INDEX
1	1.08143E+06	2.20297	***
2	1.02069E+06	2.27292	***
3	6.32984E+07	2.29167	***
4	304701.	2.88635	***
5	1079.25	3.43712	***
6	8703.44	3.73611	***
7	15443	11.1501	***
8	10010	12.4588	***
9	26025.9	19.606	***
10	1532	19.8141	102.031
11	4804.25	21.5197	127.874
12	2081.19	23.1256	152.206
13	29813.9	30.7807	298.699
14	21005.8	34.8454	397.693
15	1425.12	37.099	434.161
16	1065.25	39.2854	468.757
17	1770.59	40.325	485.206
18	10898.4	41.1262	497.883
19	1914	43.4903	524.033

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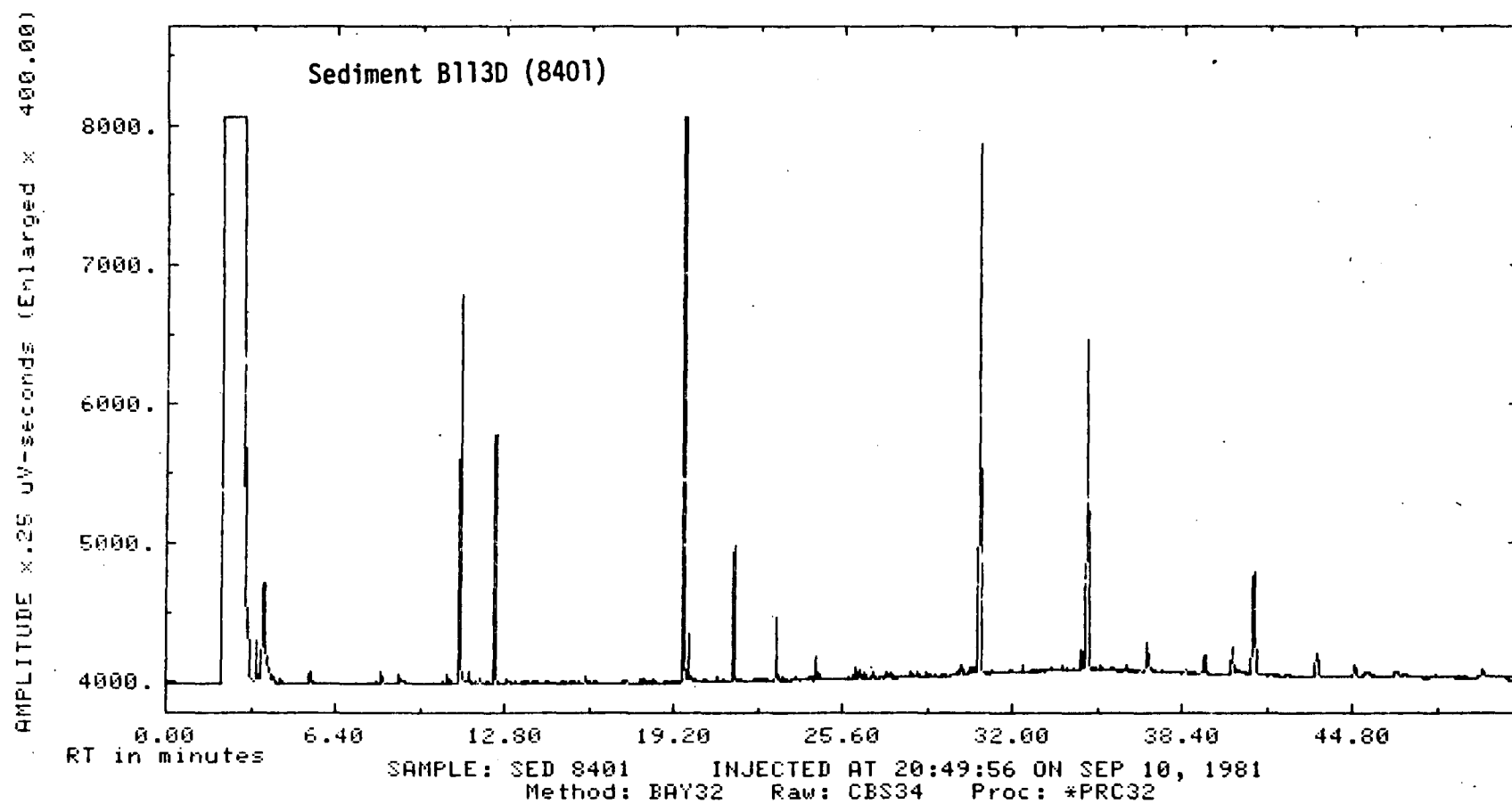


Figure H-12. FID/GC chromatogram for sediment sample B113D.

TABLE H-13. RELATIVE RETENTION INDICES FOR SEDIMENT SAMPLE B124D

PROCESSED FILE: *PRC32 Sediment B124D (8402)
 RAW FILE: CBS38

SAMPLE NAME: SED 8402

RELATIVE RETENTION VALUES

OUTPUT FILE: OFF3

PEAK #	AREA	TIME	INDEX
1	2.08546E+06	2.21993	***
2	1.09682E+06	2.28125	***
3	6.54470E+07	2.29583	***
4	0	2.91352	***
5	1506.5	3.466	***
6	7871.75	3.71979	***
7	15195.4	11.1533	***
8	9867.25	12.462	***
9	25676.4	19.6049	***
10	1240.47	19.8118	101.997
11	4160.75	21.517	127.833
12	1760.5	23.1229	152.165
13	1257.06	24.6465	175.25
14	29537.4	30.7802	298.689
15	22328.2	34.8479	397.754
16	1350	37.0937	434.078
17	1386.75	40.3174	485.085
18	11850.5	41.119	497.769

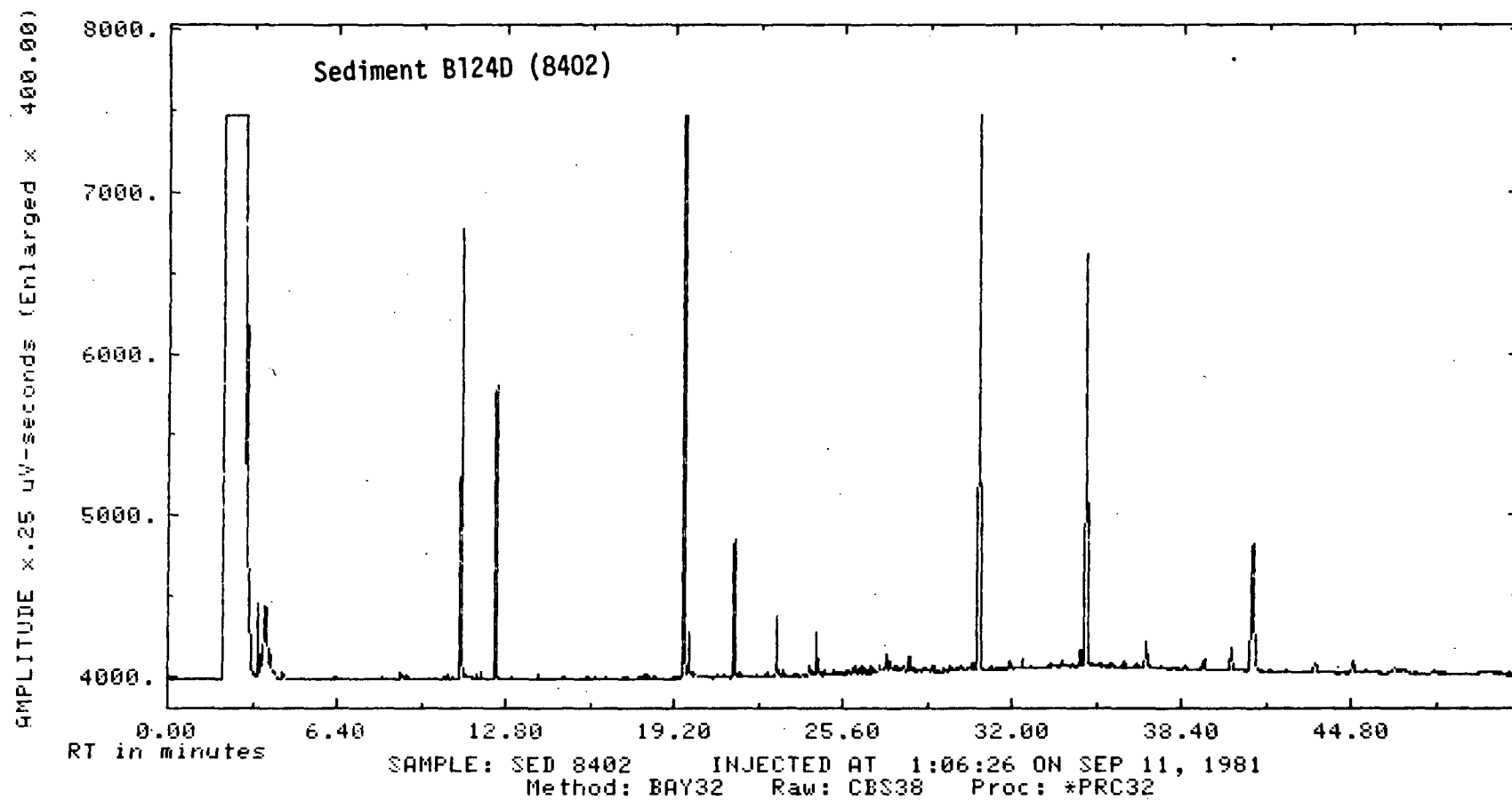


Figure H-13. FID/GC chromatogram for sediment sample B124D.

TABLE H-14. RELATIVE RETENTION INDICES FOR SEDIMENT SAMPLE C151D

PROCESSED FILE: *PRC32 Sediment C151D (8395)
 RAW FILE: CRS30

SAMPLE NAME: SED 8395

RELATIVE RETENTION VALUES

OUTPUT FILE: OFF3

PEAK#	AREA	TIME	INDEX
1	18525	2.13523	***
2	148396.	2.21833	***
3	7.21999E+07	2.24375	***
4	12140.7	3.69688	***
5	13576	11.1266	***
6	7759.25	12.4448	***
7	29188.2	19.5954	***
	7304.75	19.8046	101.888
9	23215	21.5145	127.795
10	10457.7	23.1165	152.069
11	3650.5	24.6363	175.095
12	1489.37	26.0861	197.062
13	34324.	30.7693	298.451
14	23557	34.8279	397.266
15	1069.44	40.2844	484.563
16	12962.7	41.0924	497.347

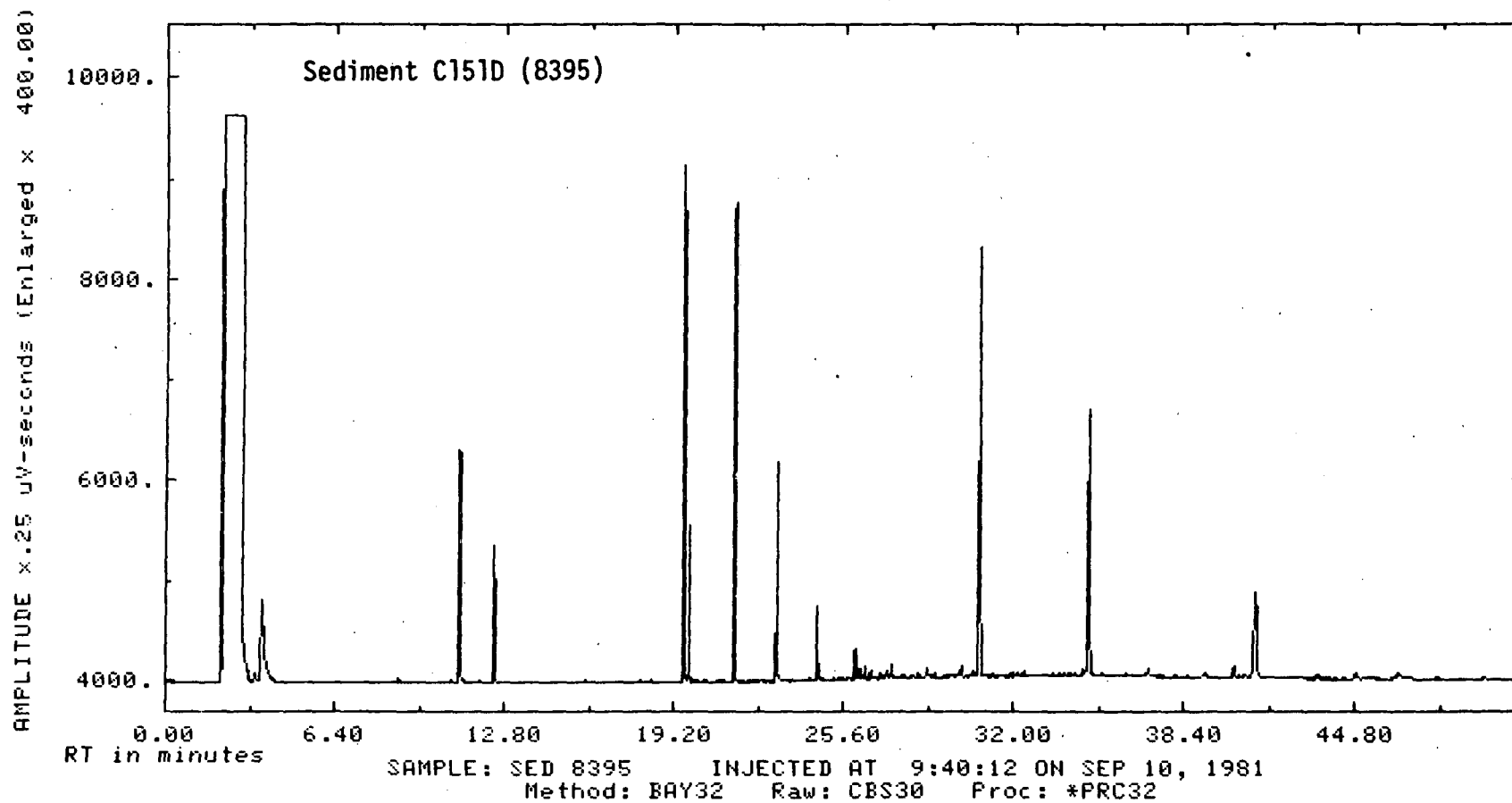


Figure H-14. FID/GC chromatogram for sediment sample C151D.

TABLE H-15. RELATIVE RETENTION INDICES FOR SEDIMENT SAMPLE C153D

PROCESSED FILE: *PRC32 Sediment C153D (8382)
 RAW FILE: CBS14

SAMPLE NAME: SED 8382

RELATIVE RETENTION VALUES

OUTPUT FILE: OPF3

PEAK#	AREA	TIME	INDEX
1	690146.	2.14174	***
2	2.93390E+06	2.23979	***
3	8.32176E+07	2.27083	***
4	1964.33	2.92489	***
5	5970.85	2.97498	***
6	199668.	3.05462	***
7	2735.13	3.13047	***
8	2465.53	3.1514	***
9	8263	3.59508	***
10	1386.5	8.82847	***
11	2382.25	11.1613	***
12	30475.2	12.4905	***
13	1645.12	15.8937	***
14	61443.2	19.6186	***
15	4774.69	19.8154	102.051
16	14868.5	21.5227	127.919
17	1111.09	22.0924	136.551
18	6836.63	23.1306	152.282
19	1753.37	23.1993	153.323
20	3293.42	24.6521	175.335
21	1791.19	26.0982	197.245
22	7046.81	26.2534	199.598
23	1815.96	28.2031	242.174
24	12415.2	30.1213	284.239
25	58966.8	30.7985	299.09
26	1213.25	31.2615	310.279
27	4031.75	31.9674	327.497
28	1594.3	32.1799	332.68
29	1128.05	34.1083	379.715
30	46630.	34.8735	398.378
31	2246.19	40.524	488.354
32	2281.44	40.7865	492.507
33	29621.7	41.1798	498.73

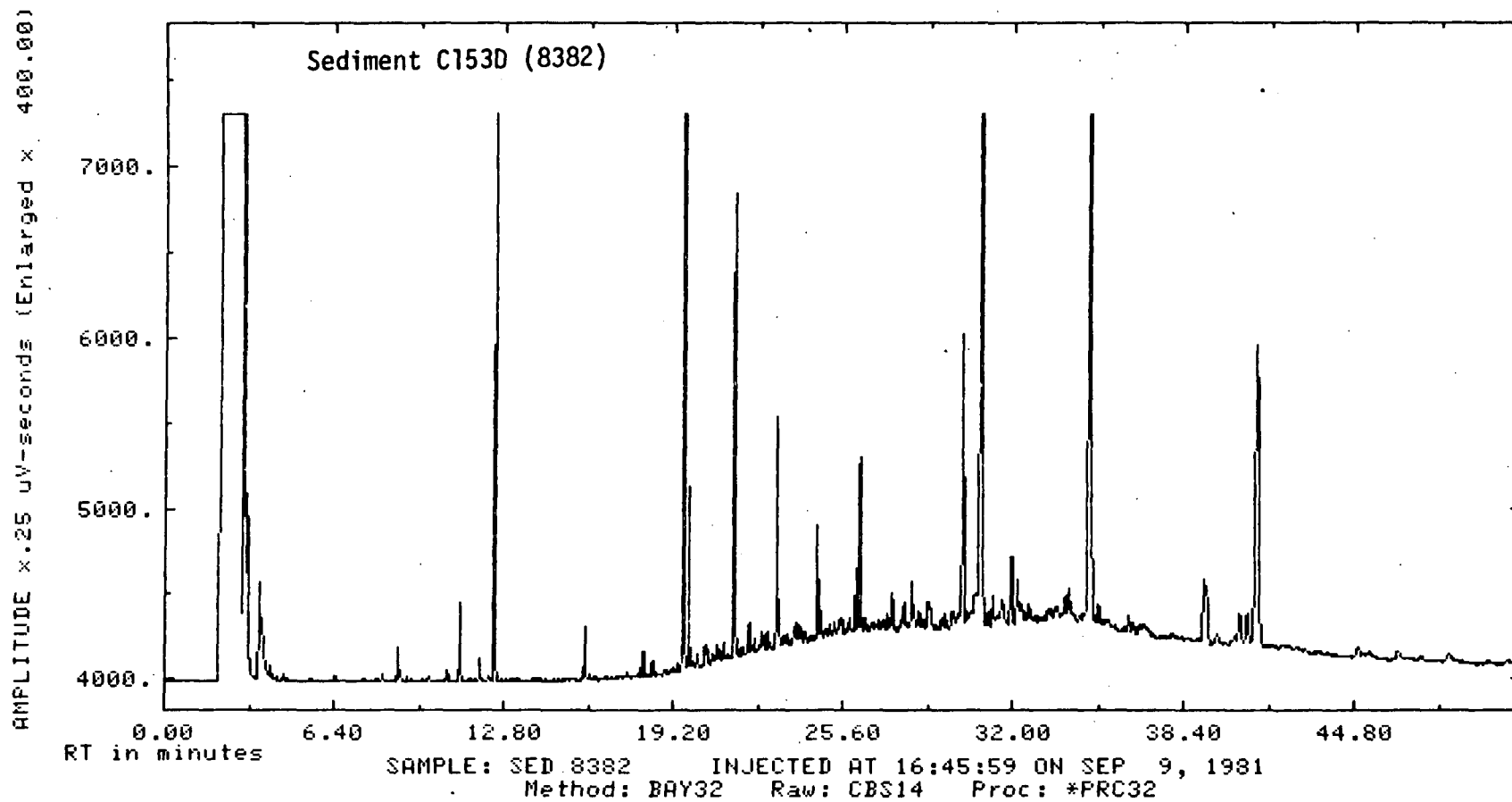


Figure H-15. FID/GC chromatogram for sediment sample C153D.

TABLE H-16. RELATIVE RETENTION INDICES FOR SEDIMENT SAMPLE C154D

PROCESSED FILE: *PRC32 Sediment C154D (8381)
 RAW FILE: CBS13

SAMPLE NAME: SED 8381

RELATIVE RETENTION VALUES

OUTPUT FILE: OFF3

PEAK#	AREA	TIME	INDEX
1	8340.22	2.2192	***
2	7.04994E+07	2.25	***
3	12366.6	3.70556	***
4	16635.9	11.1415	***
5	5831.87	12.4579	***
6	1095.5	15.8974	***
7	62527.5	19.6255	***
8	7200.28	19.8318	102.3
9	1296.58	20.5158	112.664
10	1768.22	21.1615	122.448
11	19424.8	21.5394	128.173
12	7321.81	23.1522	152.609
13	3230.59	24.6767	175.707
14	1116.02	24.7798	177.269
15	1340.29	25.3172	185.412
16	1844.57	26.1284	197.703
17	2379.95	26.2717	199.875
18	1851.03	26.28	199.999
19	2136.41	30.1142	284.083
2	5118.62	30.146	284.781
21	4664.19	30.6158	295.082
22	1454.77	30.6302	295.399
23	1767.07	30.6599	296.05
24	75105.6	30.8243	299.655
25	2132.56	32.0049	328.412
26	1195.27	34.6048	391.824
27	8397.36	34.6723	393.471
28	1435.28	34.7106	394.405
29	86808.2	34.913	399.342
30	1951.97	35.3993	407.267
31	1324.55	39.6857	475.09
32	1539.74	40.3549	485.678
33	1016.23	40.5526	488.807
34	1170.39	40.5841	489.306
35	1720.41	40.8219	493.068
36	1465.22	40.8384	493.329
37	1343.23	41.0344	496.43
38	17348.	41.1967	498.999
39	13790.4	41.2169	499.318

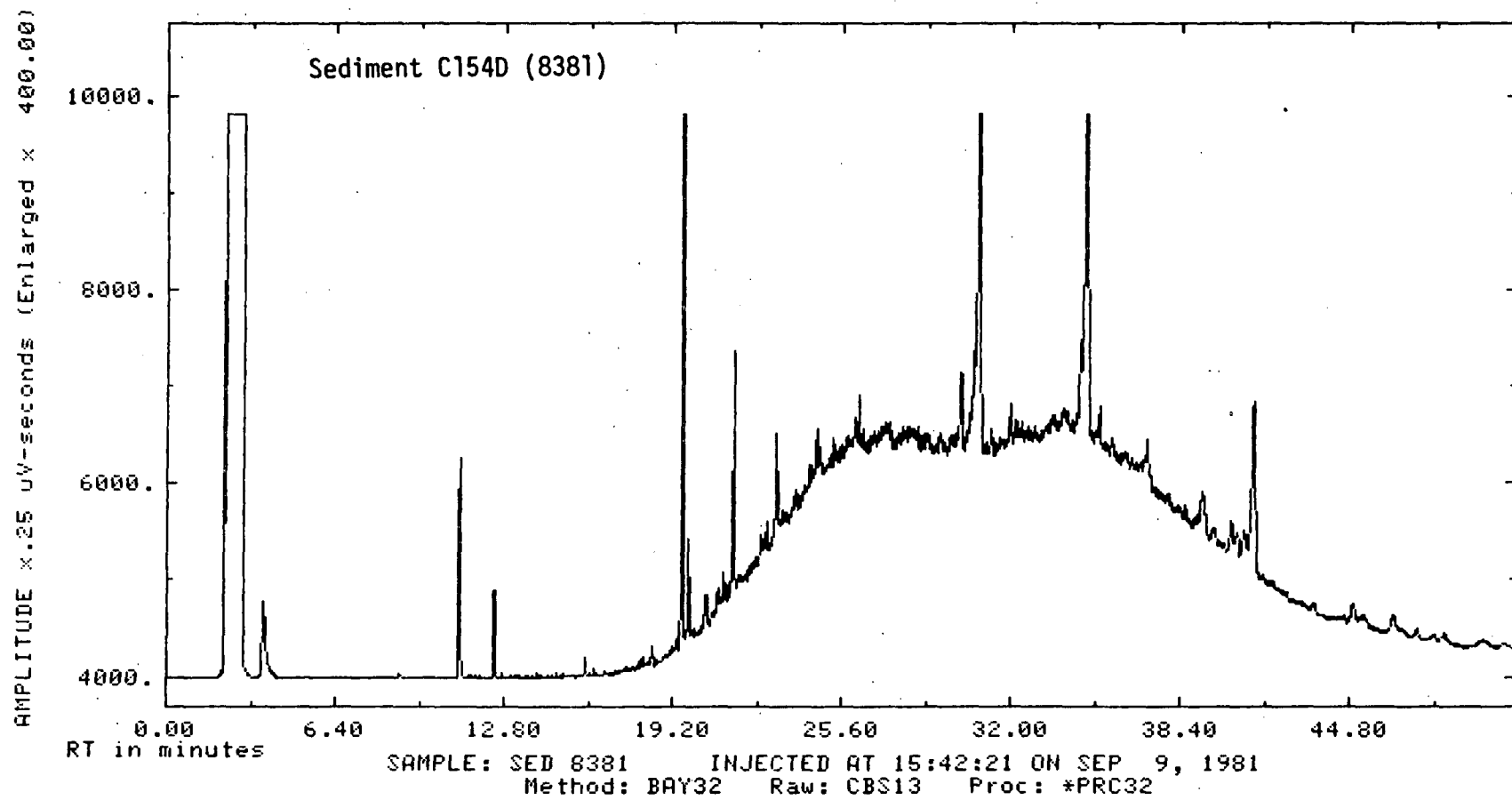


Figure H-16. FID/GC chromatogram for sediment sample C154D.

TABLE H-17. RELATIVE RETENTION INDICES FOR SEDIMENT SAMPLE C158D

PROCESSED FILE: *PRC32 Sediment C158D (8394)
 RAW FILE: CBS27

SAMPLE NAME: SED 8394

RELATIVE RETENTION VALUES

OUTPUT FILE: OPF3

PEAK#	AREA	TIME	INDEX
1	224948.	2.12865	***
2	7.75013E+07	2.24583	***
3	249997.	2.893	***
4	0	3.02672	***
5	2586	3.45699	***
6	9018.97	3.71562	***
7	19434.5	11.1499	***
8	14330.9	12.454	***
9	31901.2	19.5991	***
10	9367.94	19.8079	101.937
11	26581.5	21.5214	127.899
12	11399.5	23.1201	152.122
1	3859.5	24.6414	175.172
14	1646.25	26.0885	197.099
15	34989.3	30.7754	298.583
16	24015.9	34.8396	397.551
17	1581.87	40.2979	484.777
18	15177.2	41.1104	497.633

H-40

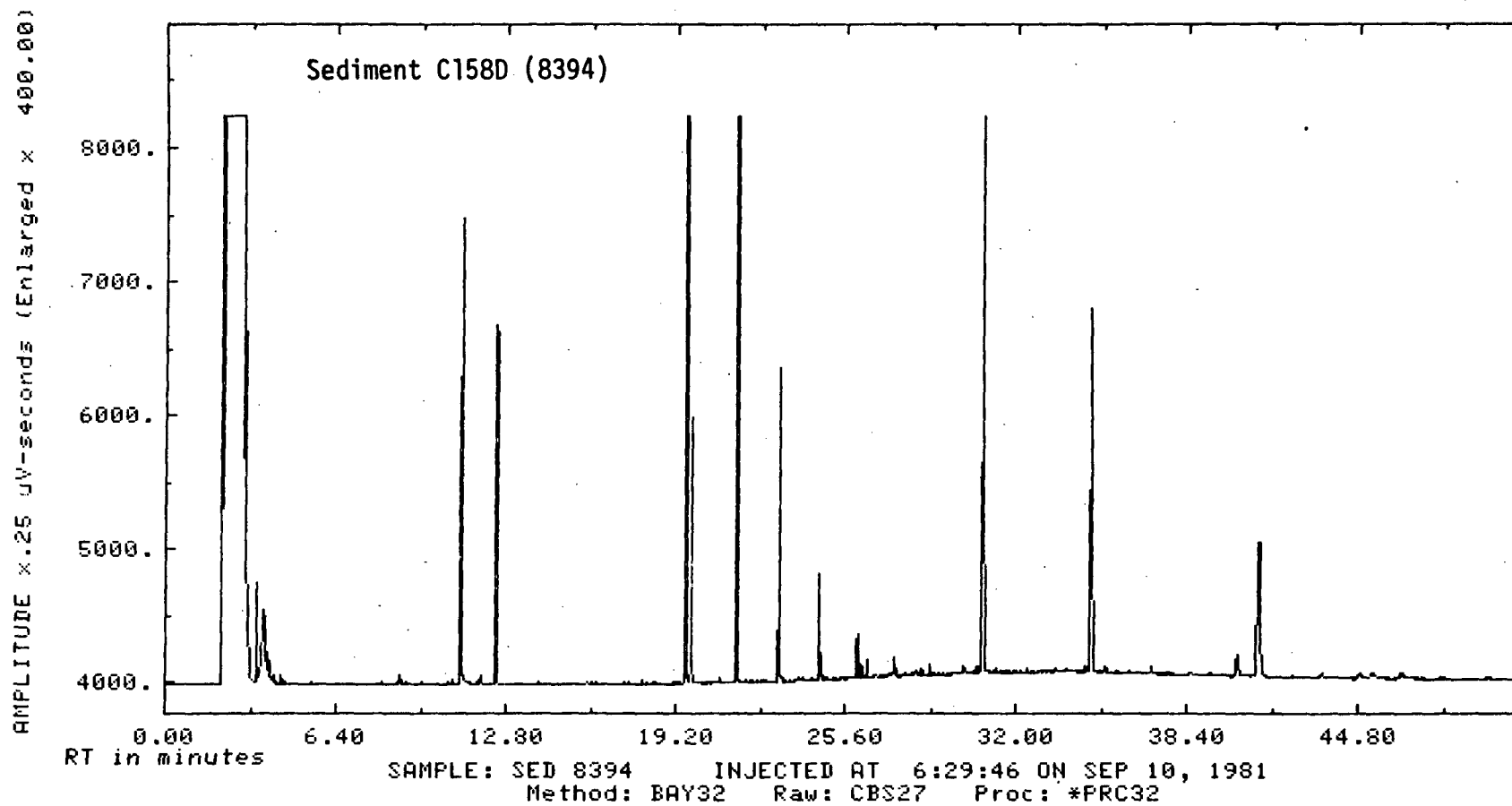


Figure H-17. FID/GC chromatogram for sediment sample C158D.

TABLE H-18. RELATIVE RETENTION INDICES FOR SEDIMENT SAMPLE C159D

PROCESSED FILE: *PRC32 Sediment C159D (8383)
 RAW FILE: CRS15

SAMPLE NAME: SED 8383

RELATIVE RETENTION VALUES

OUTPUT FILE: OPF3

PEAK#	AREA	TIME	INDEX
1	1.13138E+08	2.20208	***
2	15337.8	3.25912	***
3	11926.6	3.30846	***
4	7460.68	3.3179	***
5	262913.	3.38285	***
6	3998.25	3.46374	***
7	1913.19	3.85458	***
8	24176.5	11.2051	***
9	15648.5	12.506	***
10	1663.95	15.899	***
11	39937.	19.6124	***
12	5286.41	26.2494	199.536
13	1113.91	26.3943	202.506
14	1613.17	28.2083	242.288
15	1620.44	28.8792	256.999
16	6175.5	30.11	283.991
17	40799.2	30.7864	298.825
18	2210.44	31.9732	327.639
19	30847.2	34.857	397.976
20	15282.7	41.1319	497.974

H-42

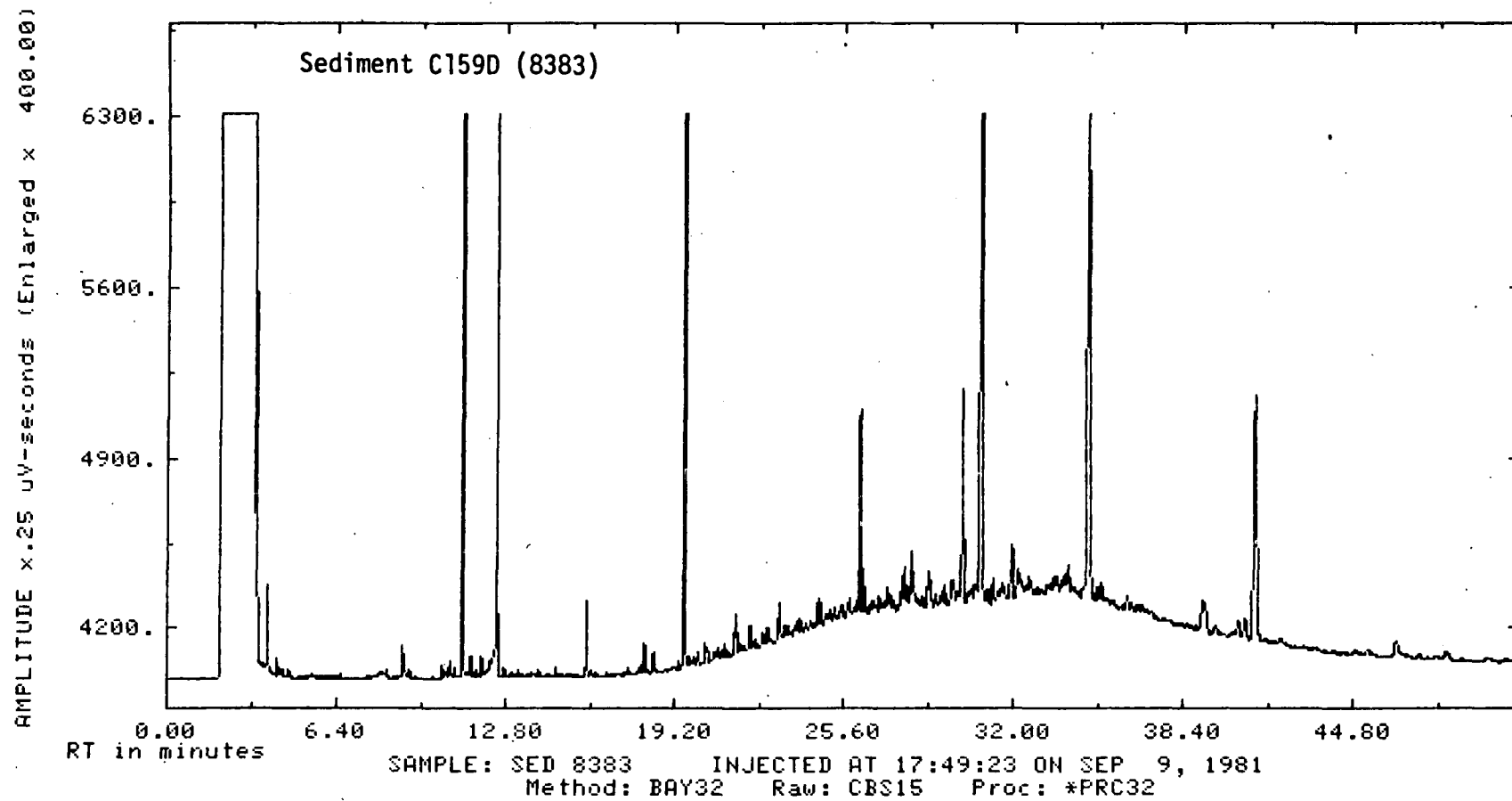


Figure H-18. FID/GC chromatogram for sediment sample C159D.

TABLE H-19. RELATIVE RETENTION INDICES FOR SEDIMENT SAMPLE C160D

PROCESSED FILE: *PRC32 Sediment C160D (8405)
 RAW FILE: CRS41

SAMPLE NAME: SED 8405

RELATIVE RETENTION VALUES

OUTPUT FILE: OPF3

PEAK#	AREA	TIME	INDEX
1	119357.	2.14464	***
2	1.59559E+06	2.22115	***
3	6.86348E+07	2.27083	***
4	39286.6	2.91393	***
5	1480.12	3.45748	***
6	8976.94	3.72778	***
7	13252.9	11.1504	***
8	9158.44	12.4599	***
9	22923.7	19.6036	***
10	26691.5	30.7788	298.657
11	19866.3	34.8485	397.769
12	1889.41	37.9479	447.594
13	10346.4	41.1245	497.856

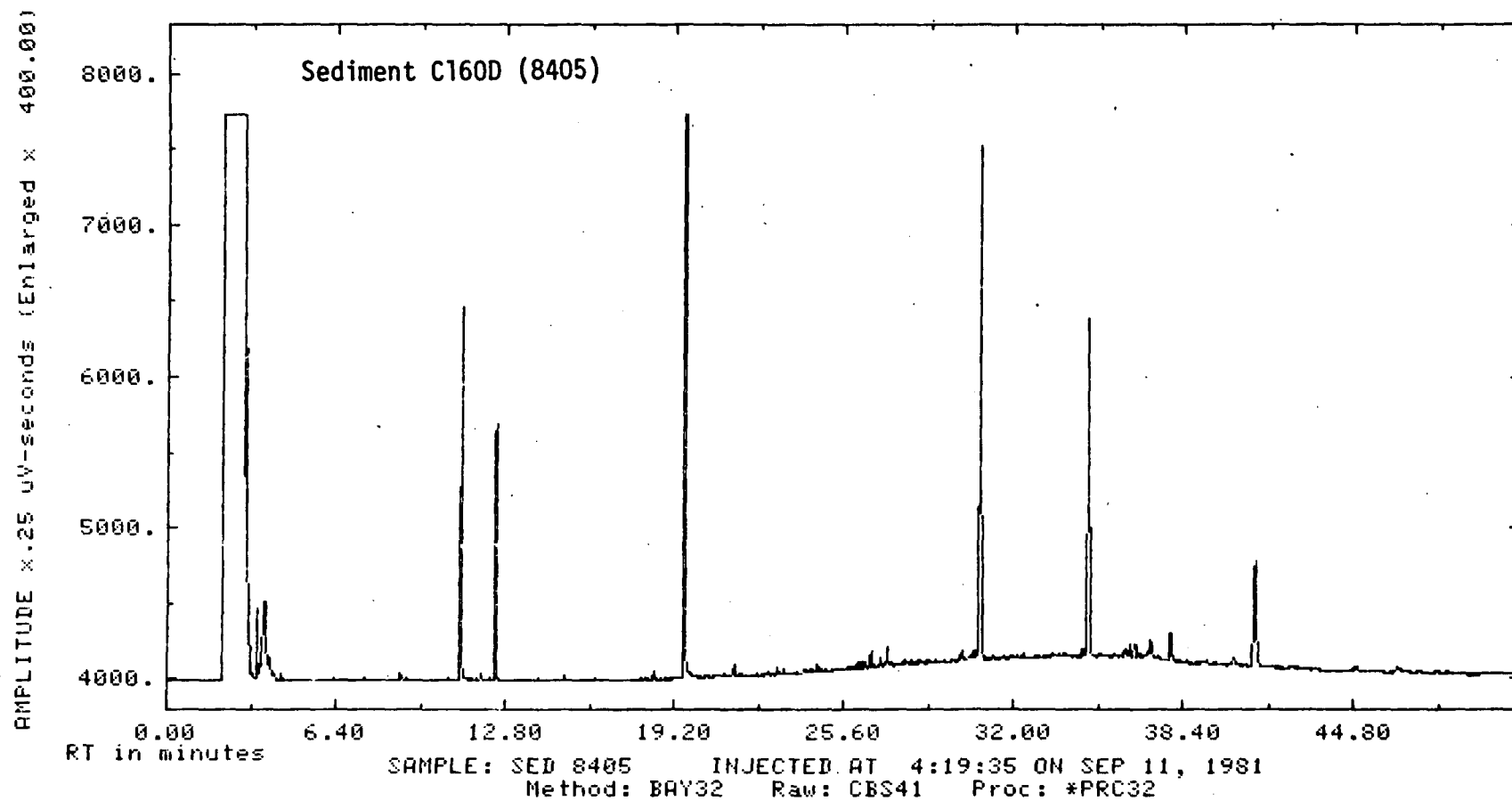


Figure H-19. FID/GC chromatogram for sediment sample C160D.

TABLE H-20. RELATIVE RETENTION INDICES FOR SEDIMENT SAMPLE B126S

PROCESSED FILE: *PRC32 Sediment B126S (8384)
 RAW FILE: CBS17
 SAMPLE NAME: SED 8384

RELATIVE RETENTION VALUES

OUTPUT FILE: OFF3

PEAK#	AREA	TIME	INDEX
1	352177.	2.13052	***
2	8.13722E+07	2.25	***
3	22675.7	2.87234	***
4	409613.	3.02784	***
5	5596.48	3.11145	***
6	3825.66	3.54254	***
7	7182.22	3.68472	***
8	17642.	11.1645	***
9	13046.6	12.476	***
10	1148.62	19.4137	***
11	30327	19.6053	***
12	5793.62	19.8237	102.178
13	3294.69	20.894	118.394
14	1111.25	21.151	122.289
15	16696.9	21.5288	128.012
16	6627.03	23.1374	152.385
17	2088.59	23.8504	143.915
18	1531.59	24.6559	175.393
19	1544.66	24.6655	175.538
20	4619.06	24.7565	176.917
21	5145.28	26.2587	199.678
22	5567.97	30.1284	284.394
23	36060.3	30.7943	298.998
24	1090.83	31.7244	321.571
25	1232.09	31.9986	328.258
26	31719.5	34.8767	398.457
27	20932.9	41.1837	498.793
28	2781.75	46.5183	556.663

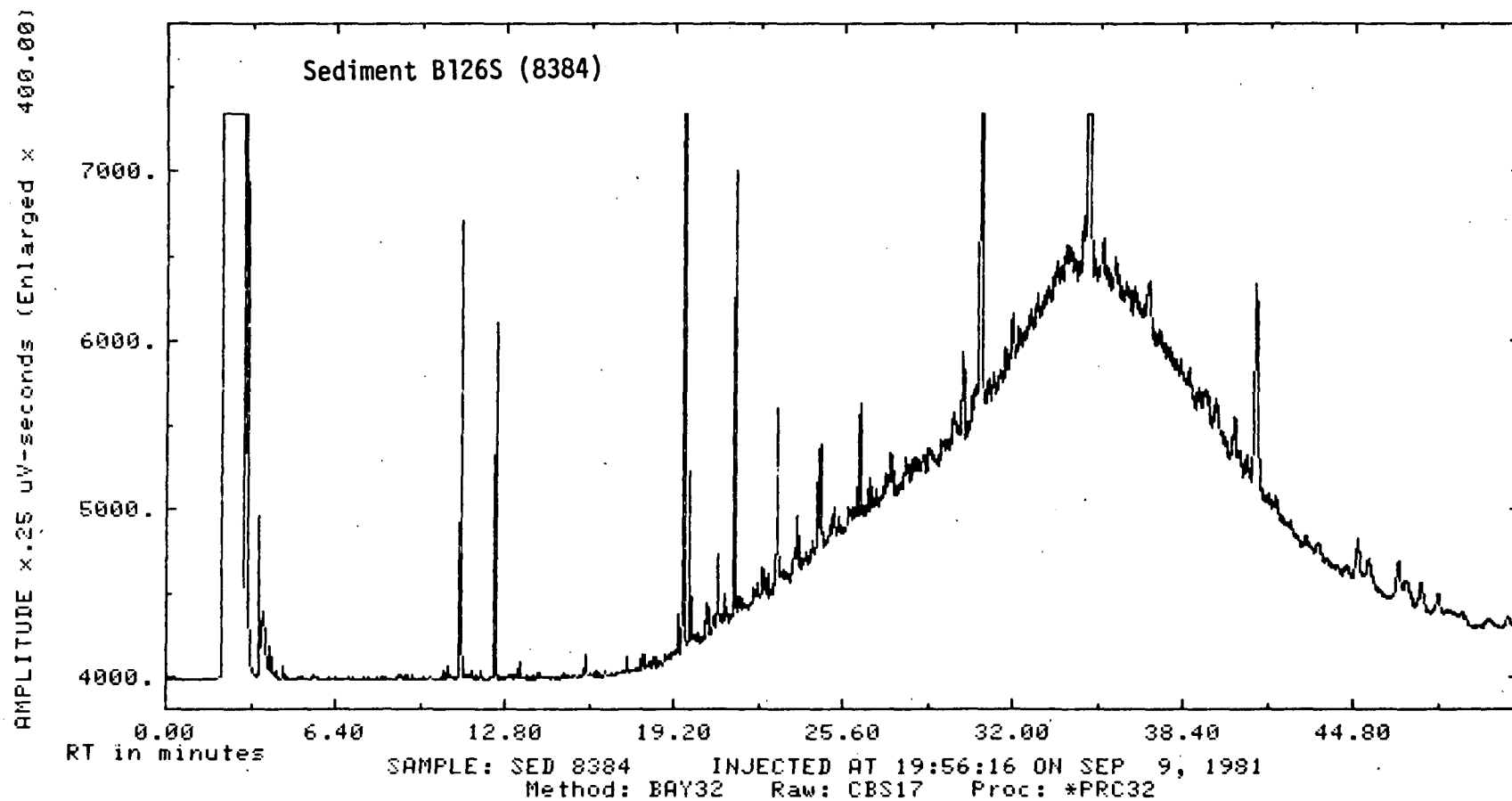


Figure H-20. FID/GC chromatogram for sediment sample B126S.

TABLE H-21. RELATIVE RETENTION INDICES FOR SEDIMENT SAMPLE B143S

PROCESSED FILE: *PRC32 Sediment B143S (8387)
 RAW FILE: CBS25

SAMPLE NAME: SED 8387

RELATIVE RETENTION VALUES

OUTPUT FILE: OPF3

PEAK#	AREA	TIME	INDEX
1	268775.	2.10432	***
2	227057.	2.13316	***
3	8.25621E+07	2.25208	***
4	21280.2	2.96654	***
5	314943.	3.03786	***
6	5650.83	3.12259	***
7	3708.97	3.55465	***
8	6798.06	3.68333	***
9	4252.5	10.6719	***
10	21660.7	11.1667	***
11	15074.1	12.474	***
12	14988.3	13.2649	***
13	1155.25	13.9379	***
14	1171.75	14.0729	***
15	1437.25	14.7411	***
16	5596.45	15.4414	***
17	7681.69	16.0558	***
18	1527.32	17.174	***
19	4876.81	17.2287	***
20	1186.87	17.5208	***
21	6669.02	18.0047	***
22	5174.75	19.193	***
23	37116.5	19.6064	***
24	9859.23	19.8212	102.139
25	6105.31	20.7534	116.263
26	5638.67	21.0291	120.44
27	2635.19	21.4033	126.111
28	22516.4	21.5356	128.115

TABLE H-21 (continued)

29	2319.55	21.6238	129.452
30	1946.86	21.6661	130.093
31	2661	21.7526	131.403
32	2431.75	21.824	132.484
33	3572.75	21.9468	134.345
34	5918.89	22.0809	136.377
35	208398.	22.3	139.697
36	191230.	22.4475	141.932
37	239748.	22.7602	146.67
38	4573.26	22.9488	149.528
39	7263.05	22.9892	150.14
40	6596.91	23.086	151.606
41	1379.18	23.0988	151.801
42	9043.41	23.1321	152.304
43	357993.	23.3585	155.735
44	7045.98	23.4824	157.612
45	5797	23.5608	158.799
4	266824.	23.832	162.909
4,	32484.4	23.8424	163.067
48	276517.	23.9003	163.943
49	320240.	24.0593	166.353
50	408770.	24.3872	171.322
51	31433.9	24.4342	172.034
52	35622.7	24.5785	174.219
5	34102.2	24.5881	174.365
54	453138.	24.9576	179.964
55	115445.	24.9656	180.084
56	6596.24	25.0285	181.037
57	5023.43	25.0917	181.995
58	357355.	25.3011	185.169
59	218700.	25.3845	186.432
60	259631.	25.5575	189.053
61	12822.7	25.6405	190.311
62	32368.3	25.7034	191.264
63	320392.	25.8838	193.996
64	19906.6	25.9967	195.707
65	17353.5	26.0564	196.611
66	53903.4	26.1291	197.713
67	12640.6	26.204	198.848
68	406016.	26.4448	203.615

TABLE H-21 (continued)

69	149950.	26.6631	208.401
70	88373.	26.7597	210.52
71	8726.31	26.845	212.39
72	100327.	26.9353	214.37
73	18971.4	27.0644	217.202
74	117789.	27.2691	221.691
75	19075.3	27.3365	223.168
76	26433.7	27.4763	226.235
77	39572.3	27.5601	228.072
78	8390.39	27.6573	230.205
7	117460.	27.799	233.311
80	2905.52	27.8619	234.69
81	22318.5	27.9424	236.456
82	21040.5	27.9859	237.41
83	27802.5	28.0859	239.602
84	3934.7	28.192	241.93
85	1114.33	28.2052	242.219
86	25103.9	28.2735	243.718
87	14124.3	28.4075	246.656
88	5534.49	28.5528	249.841
89	24465.6	28.6051	250.989
90	5738.62	28.7025	253.124
91	7919.53	28.8283	255.883
92	11210.1	28.932	258.159
93	24337.	29.1212	262.307
94	2392.72	29.2107	264.269
95	1043.98	29.2602	265.354
96	3978.36	29.4174	268.802
97	1783.05	29.5713	272.177
98	1195.59	30.2692	287.482
99	30477.2	30.7878	298.855
100	1192.12	32.4191	338.515
101	1575.22	34.6292	392.419
102	28738.5	34.8509	397.826
103	1033.42	35.805	413.687
104	1520.5	37.0971	434.131
105	21684.5	41.1443	498.169
106	6956.44	46.4467	555.891

H-50

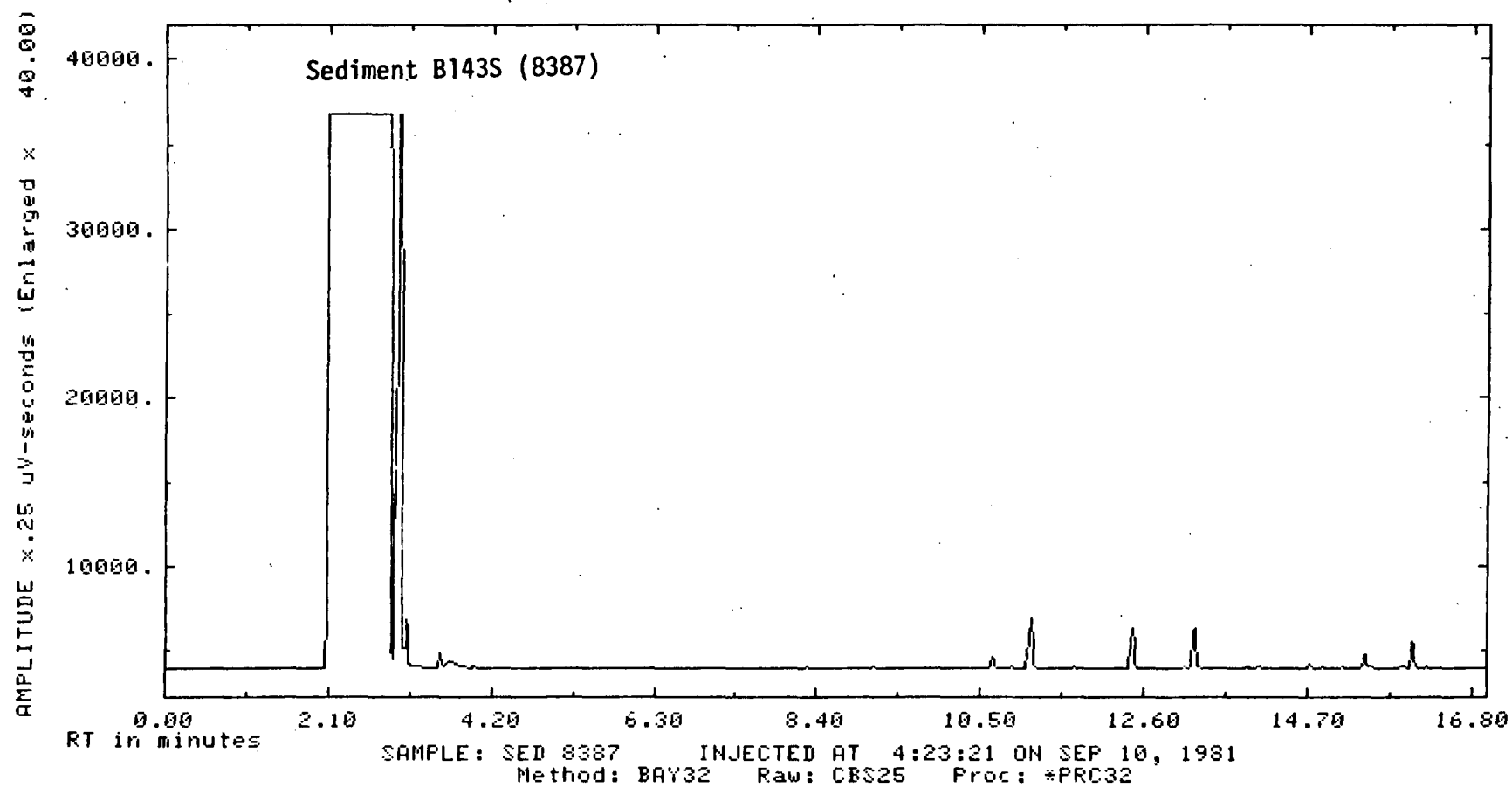


Figure H-21. FID/GC chromatogram for sediment sample B143S.

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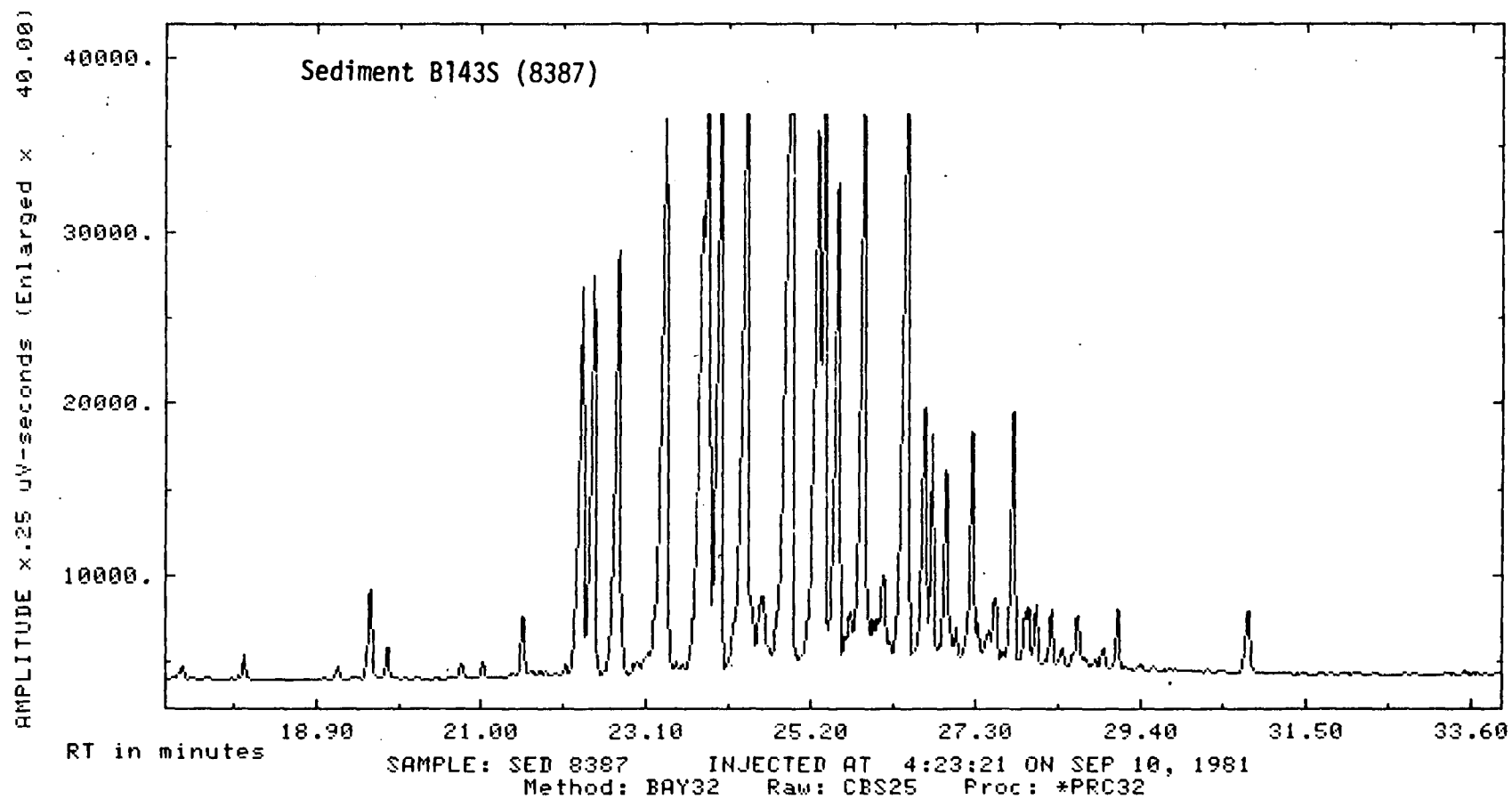


Figure H-21 (continued)

H-52

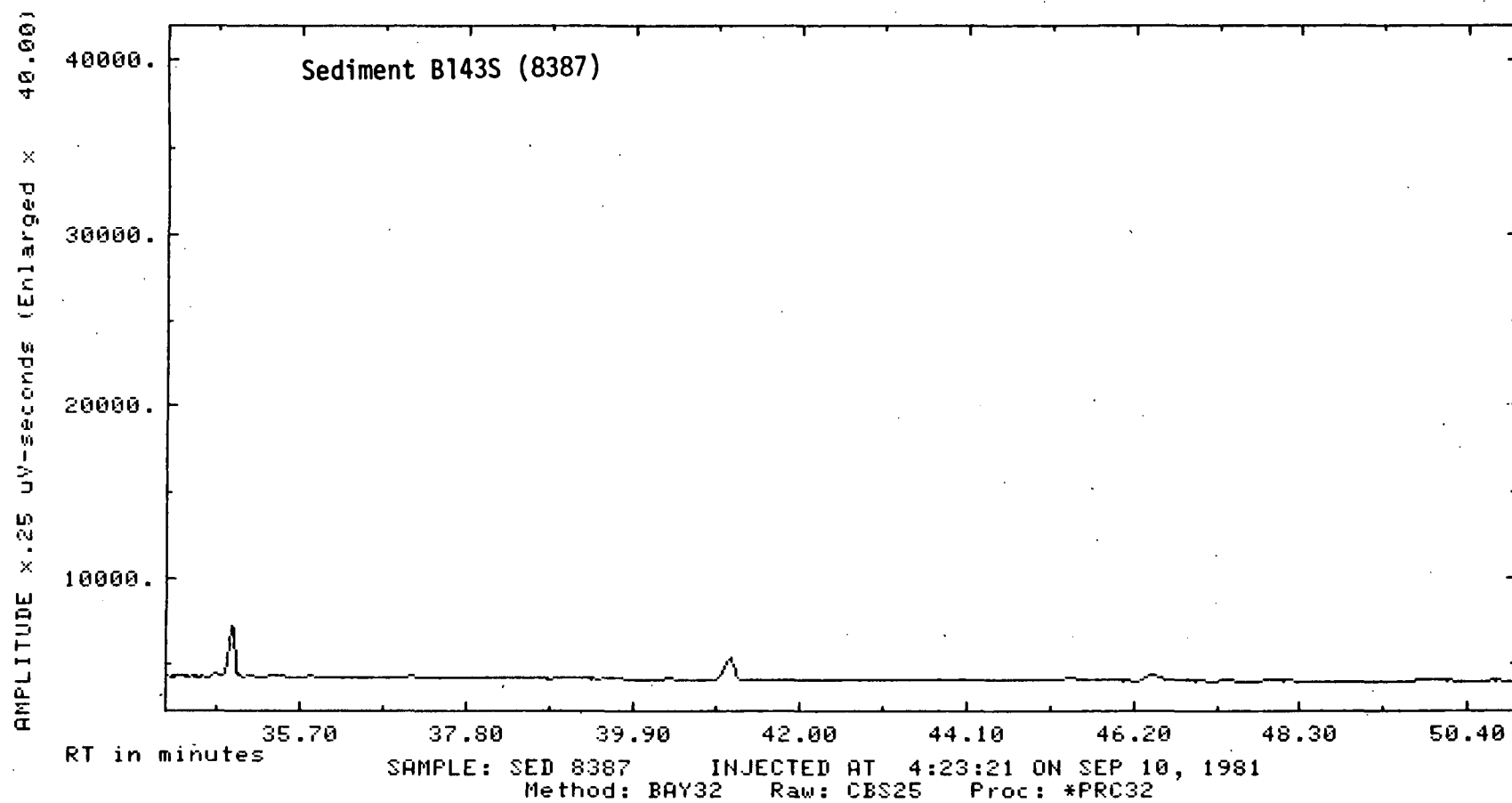


Figure H-21 (continued)

TABLE H-22. RELATIVE RETENTION INDICES FOR SEDIMENT SAMPLE C169S

PROCESSED FILE: *PRC32 Sediment C169S (8396)
 RAW FILE: CRS31

SAMPLE NAME: SED 8396

RELATIVE RETENTION VALUES

OUTPUT FILE: OFF3

PEAK#	AREA	TIME	INDEX
1	6340.91	2.21029	***
2	1.10374E+06	2.275	***
3	6.21491E+07	2.29583	***
4	8156.53	3.72344	***
5	5565.37	11.1476	***
6	2519.87	12.4675	***
7	1016.81	18.5427	***
8	2692.75	19.4188	***
9	23981.	19.6104	***
10	8124.72	19.8289	102.256
11	7234.31	20.8993	118.475
12	25669.1	21.5361	128.122
13	2211.12	21.6768	130.254
14	1135.52	21.8598	133.027
15	1070.46	22.3023	139.732
16	3909.83	22.5758	143.876
17	8455.12	23.1394	152.416
18	3251.98	23.8223	162.763

TABLE H-22 (continued)

19	6480.08	23.8948	163.86
20	1512.94	24.1087	167.101
21	1371.78	24.19	168.333
22	3301.45	24.663	175.5
23	6678.45	24.7532	176.867
24	1628.16	25.3034	185.202
25	2538.81	26.1073	197.384
26	6004.19	26.2549	199.62
27	1059.96	27.3102	222.592
28	2485.34	27.4071	224.716
29	1137.27	27.484	226.403
30	1095.53	27.4932	226.604
31	2248.43	30.4716	291.921
32	1290.16	30.5561	293.775
33	3077.54	30.5921	294.564
34	31106.1	30.7866	298.83
35	1143.94	31.0652	305.493
36	1170.86	31.714	321.318
37	1197.89	33.5613	366.372
38	9528.28	34.6568	393.093
39	1504.91	34.743	395.195
40	2299.59	34.7724	395.913
41	28283.9	34.8682	398.248
42	1174.61	35.3825	407.001
43	1290.58	35.8381	414.211
44	2263.27	37.1258	434.586
45	1146.89	37.1402	434.813
46	7990.37	41.1325	497.983
47	4093.37	45.3333	543.894
48	2739.25	46.4646	556.084

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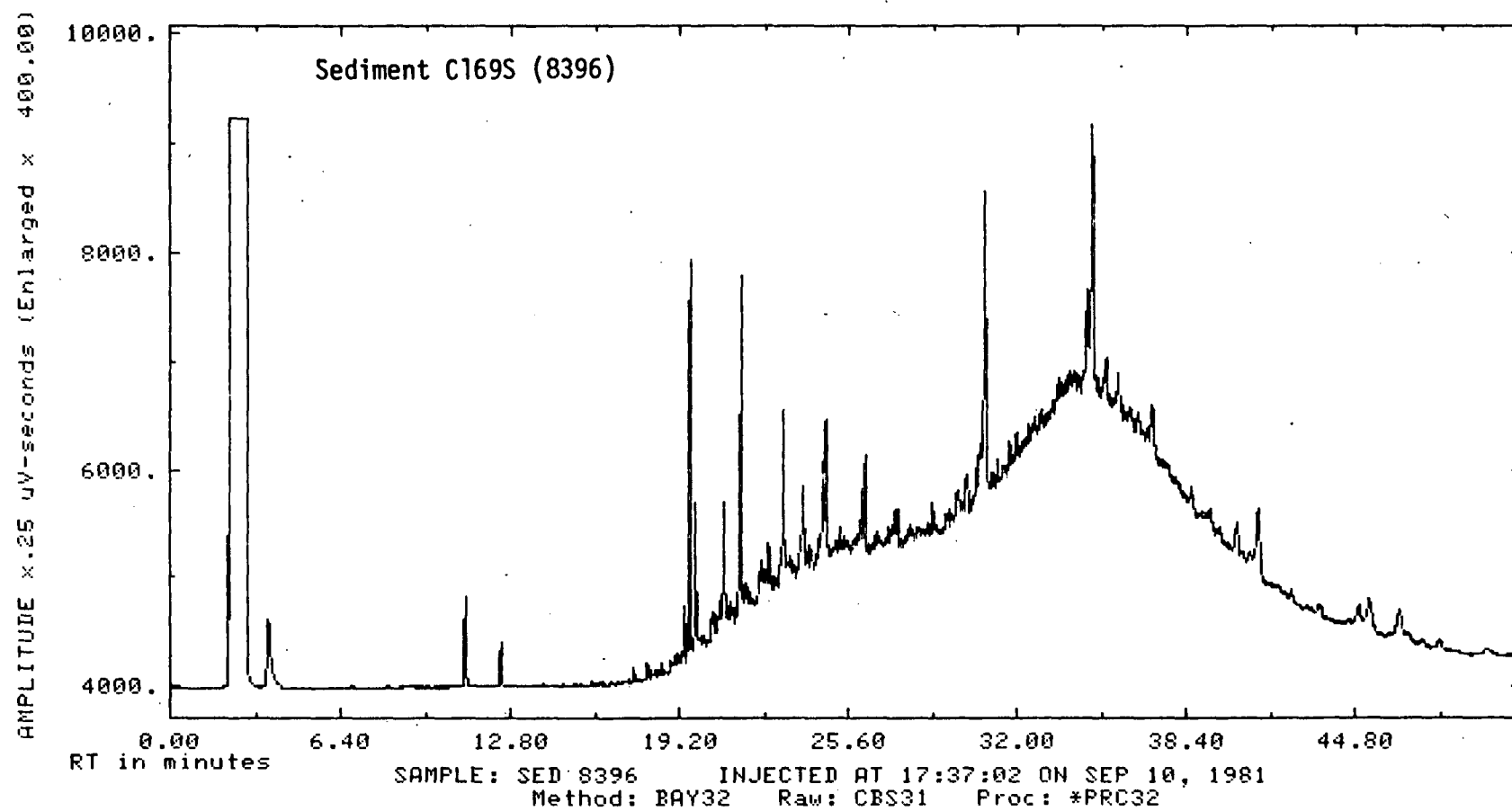


Figure H-22. FID/GC chromatogram for sediment sample C169S.

APPENDIX I

TOTAL ION CHROMATOGRAMS FOR PHASE III SEDIMENT SAMPLES

See Appendix D for the identification and quantitation of peaks.

** BATCH PROCESSOR RECONSTRUCT **
1 UL 150/150 D10 + 8400-SED 9/16/81 BMH
50(4)-280(8) BTL#20 D13448

FRN 13448
1ST SC/PG: 1
X= .25 Y= 1.00

Sediment A109 (8400)

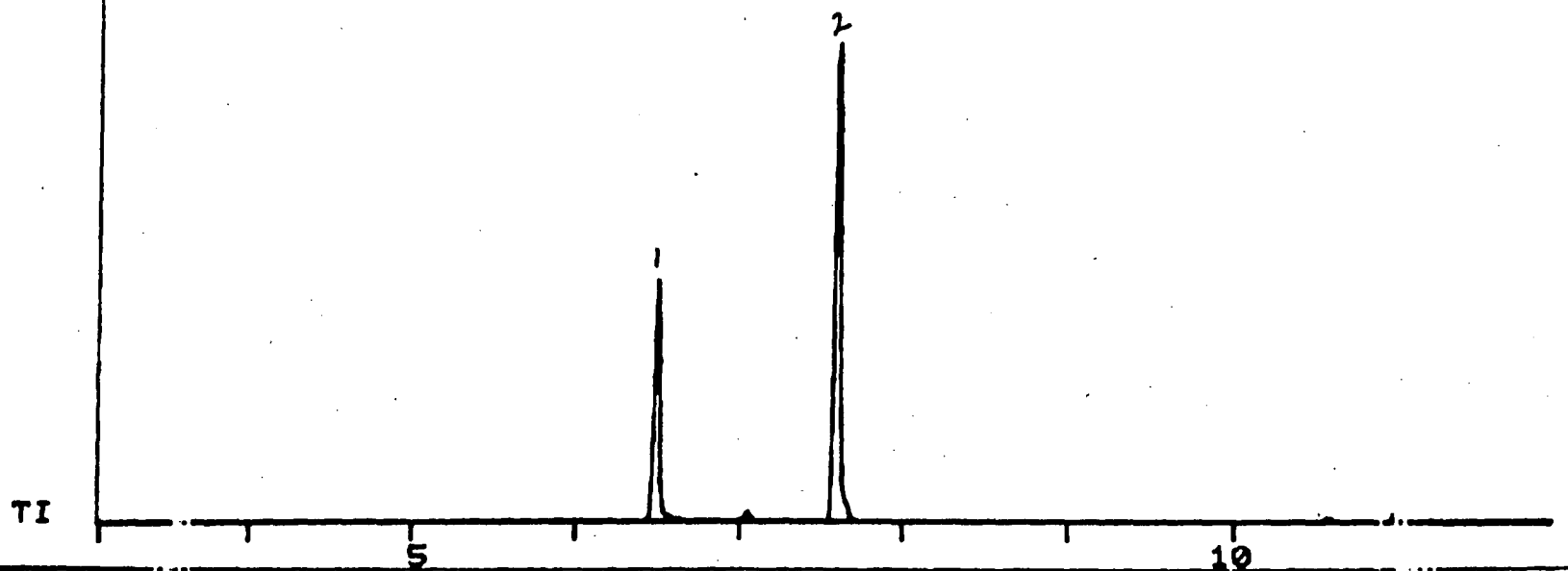


Figure I-1. Chromatogram from the capillary GC/MS analysis of sediment sample A109.

** BATCH PROCESSOR RECONSTRUCT **

FRN 13448

1 UL 150/150 D10 + 8400-SED 9/16/81 BMH
50(4)-280(8) BTL#20 D13448

1ST SC/PG: 933
X= .25 Y= 1.00

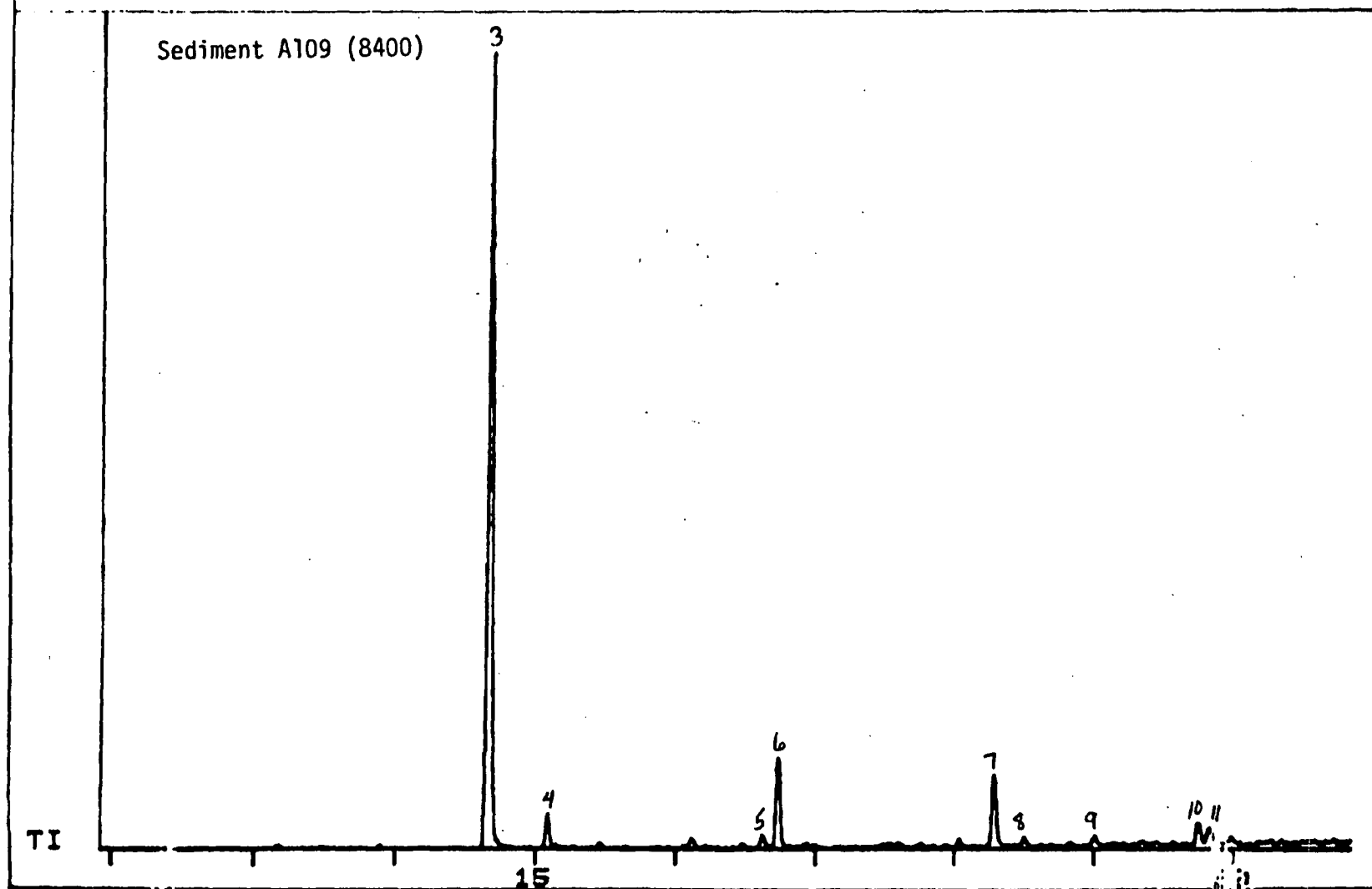


Figure I-1 (continued)

** BATCH PROCESSOR RECONSTRUCT **
1 UL 150/150 D10 + 8380-SED (DIL 1:10) 9/16/81 BMH
50(4)-280(8) BTL#8 D13436

FRN 13436
1ST SC/PG: 1
X= .25 Y= 1.00

Sediment B112D (8380) DIL 1:10

TI

(a)

(b)

5

10

Figure I-2. Chromatogram from the capillary GC/MS analysis of sediment sample B112D.

** BATCH PROCESSOR RECONSTRUCT **
1 UL 150/150 D10 + 8380-SED (DIL 1:10) 9/16/81 BMH
50(4)-280(8) BTL#8 D13436

FRN 13436
1ST SC/PG: 933
X= .25 Y= 1.00

Sediment B112D (8380) DIL 1:10

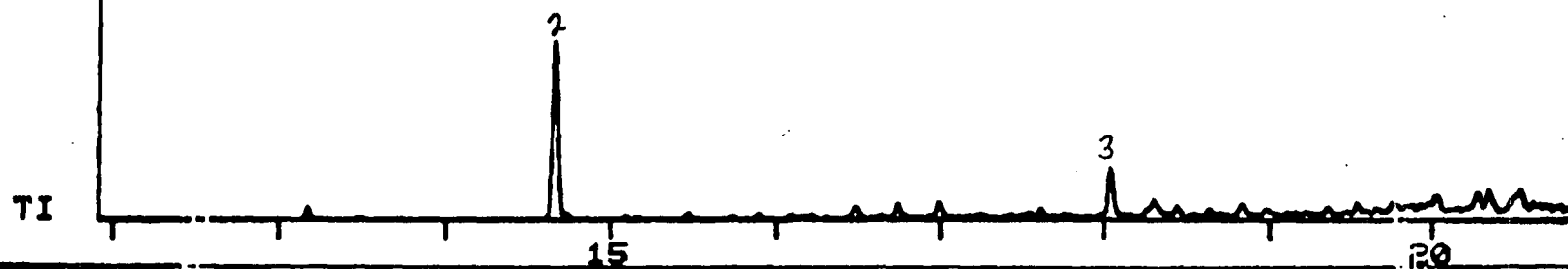


Figure I-2 (continued)

** BATCH PROCESSOR RECONSTRUCT **
1 UL 150/150 D10 + 8380-SED (DIL 1:10) 9/16/81 BMH
50(4)-280(8) BTL#8

FRN 13436
1ST SC/PG:1865
X= .25 Y= 1.00

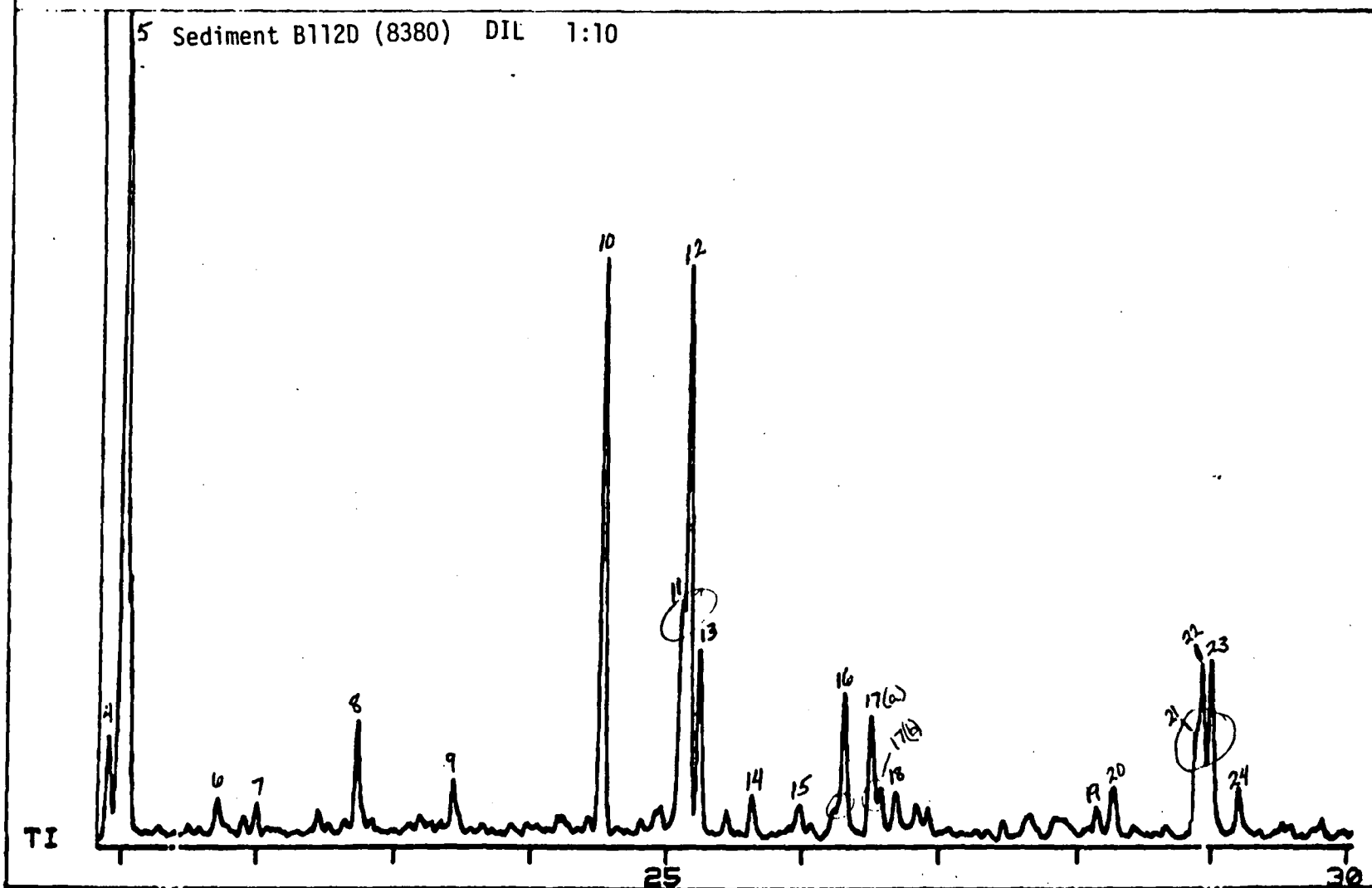


Figure I-2. (continued)

8-I

** BATCH PROCESSOR RECONSTRUCT **
1 UL 150/150 D10 + 8380-SED (DIL 1:10) 9/16/81 BMH
50(4)-280(8) BTL#8

FRN 13436
1ST SC/PG:2797
X= .25 Y= 1.00

Sediment B112D (8380) DIL 1:10

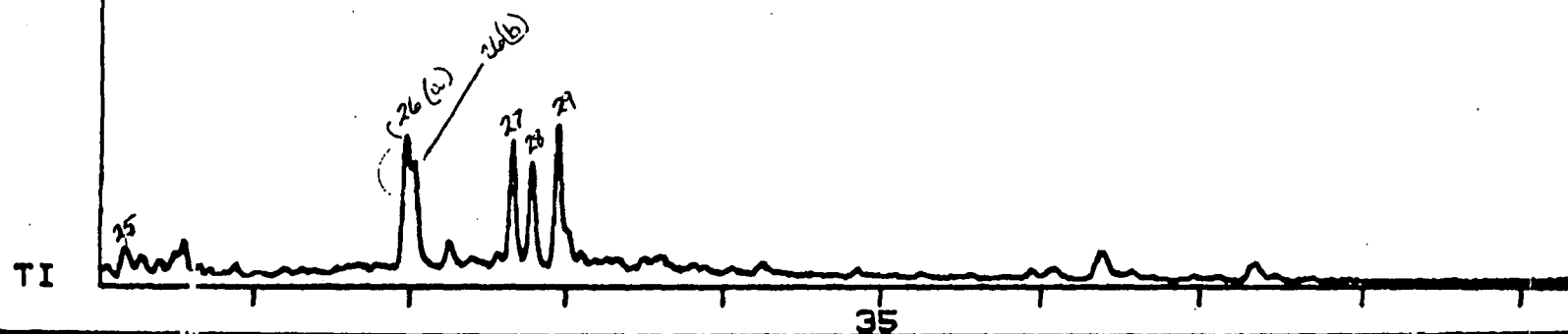


Figure I-2 (continued)

** BATCH PROCESSOR RECONSTRUCT **
1 UL 150/150 D10 + 8404-SED 9/16/81 BMH
50(4)-280(8) BTL#24 D13452

FRN 13452
1ST SC/PG: 1
X= .25 Y= 1.00

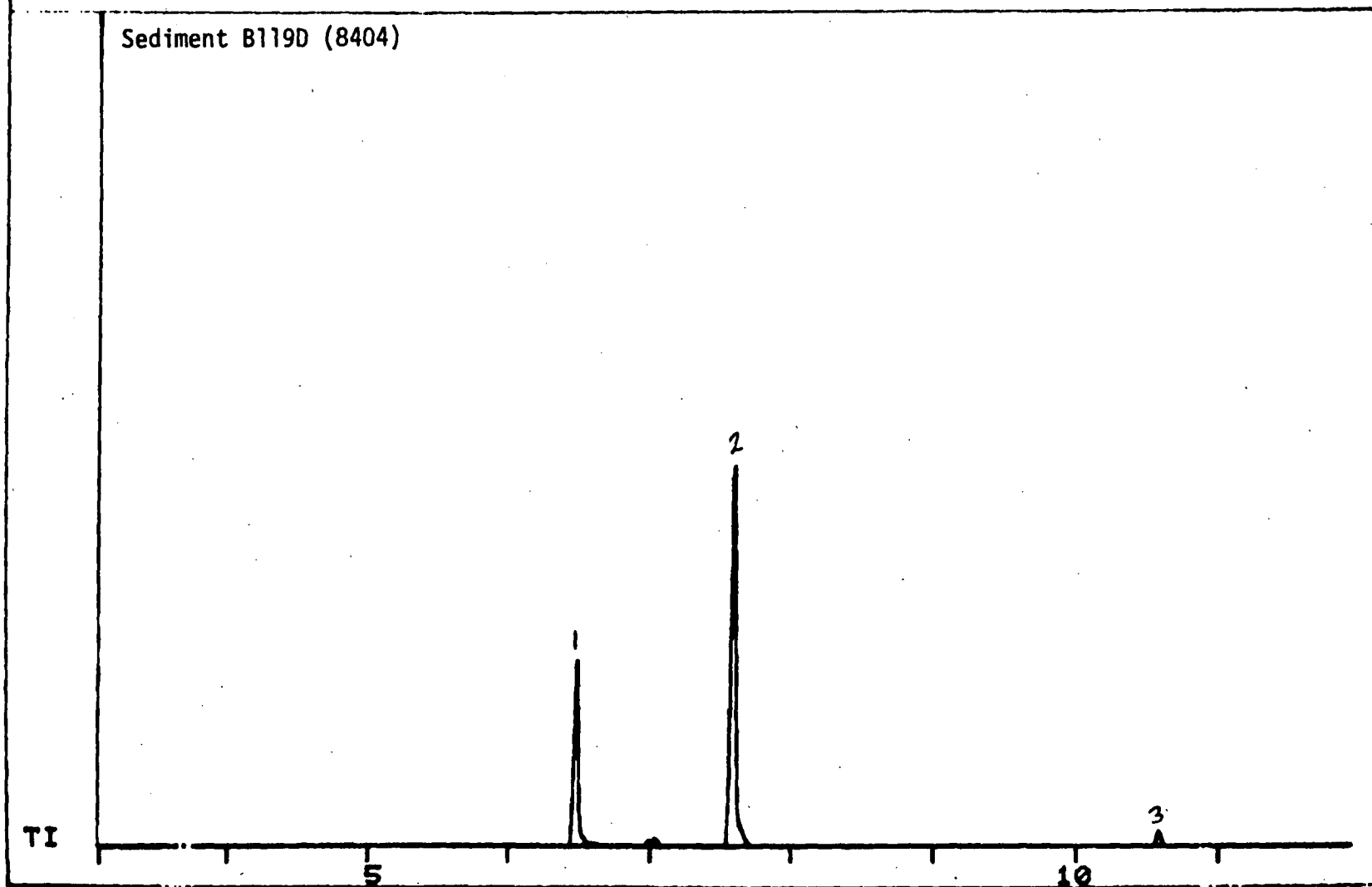


Figure I-3. Chromatogram from the capillary GC/MS analysis of sediment sample B119D.

** BATCH PROCESSOR RECONSTRUCT **
1 UL 150/150 D10 + 8404-SED 9/16/81 BMH
50(4)-280(8) BTL#24 D.3452

FRN 13452
1ST SC/PG: 933
X= .25 Y= 1.00

Sediment B119D (8404)

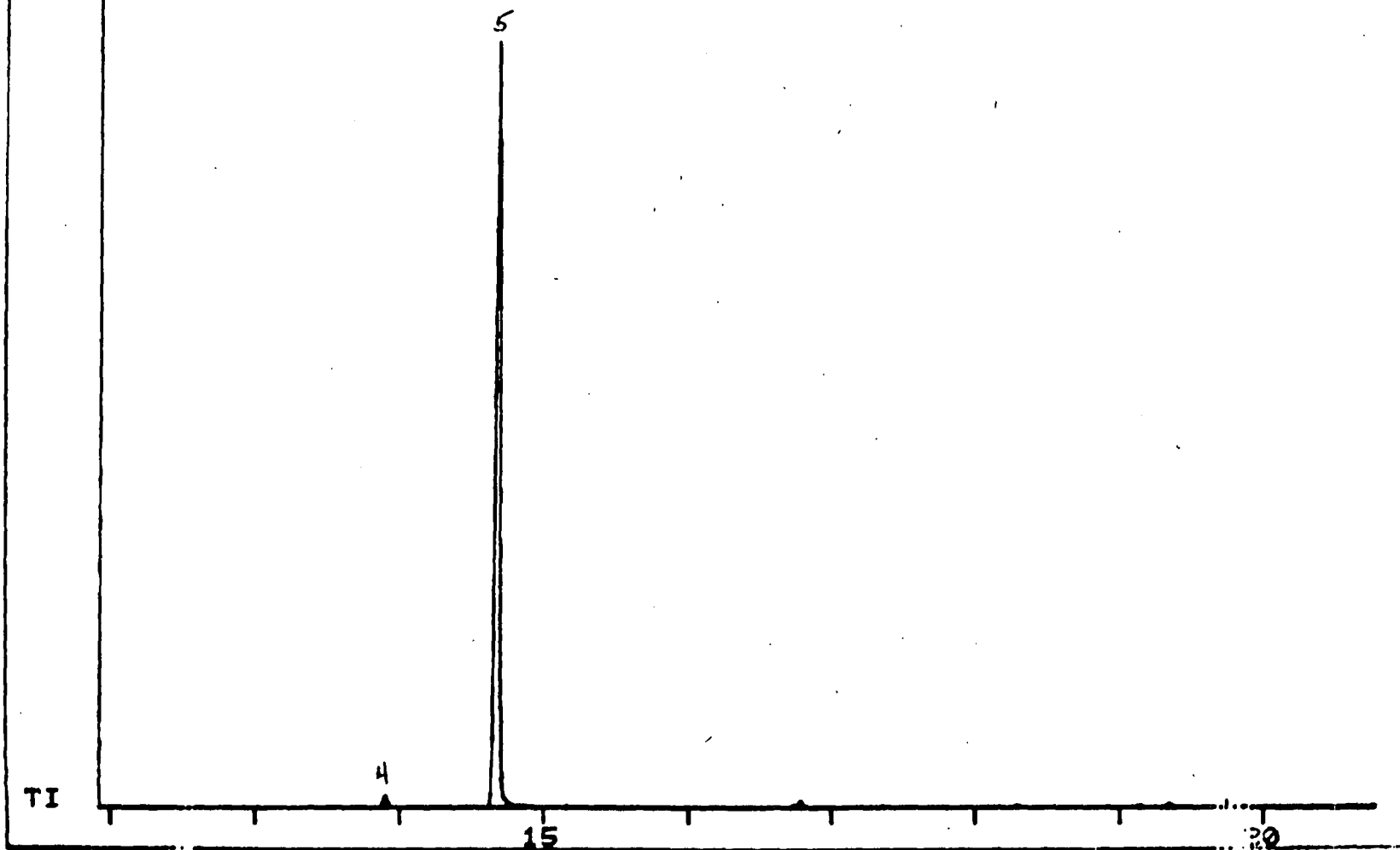


Figure I-3 (continued)

** BATCH PROCESSOR RECONSTRUCT **
1 UL 150/150 D10 + 8404-SED 9/16/81 BMH
50(4)-280(8) BTL#24 D13452

FRN 13452
1ST SC/PG:1865
X= .25 Y= 1.00

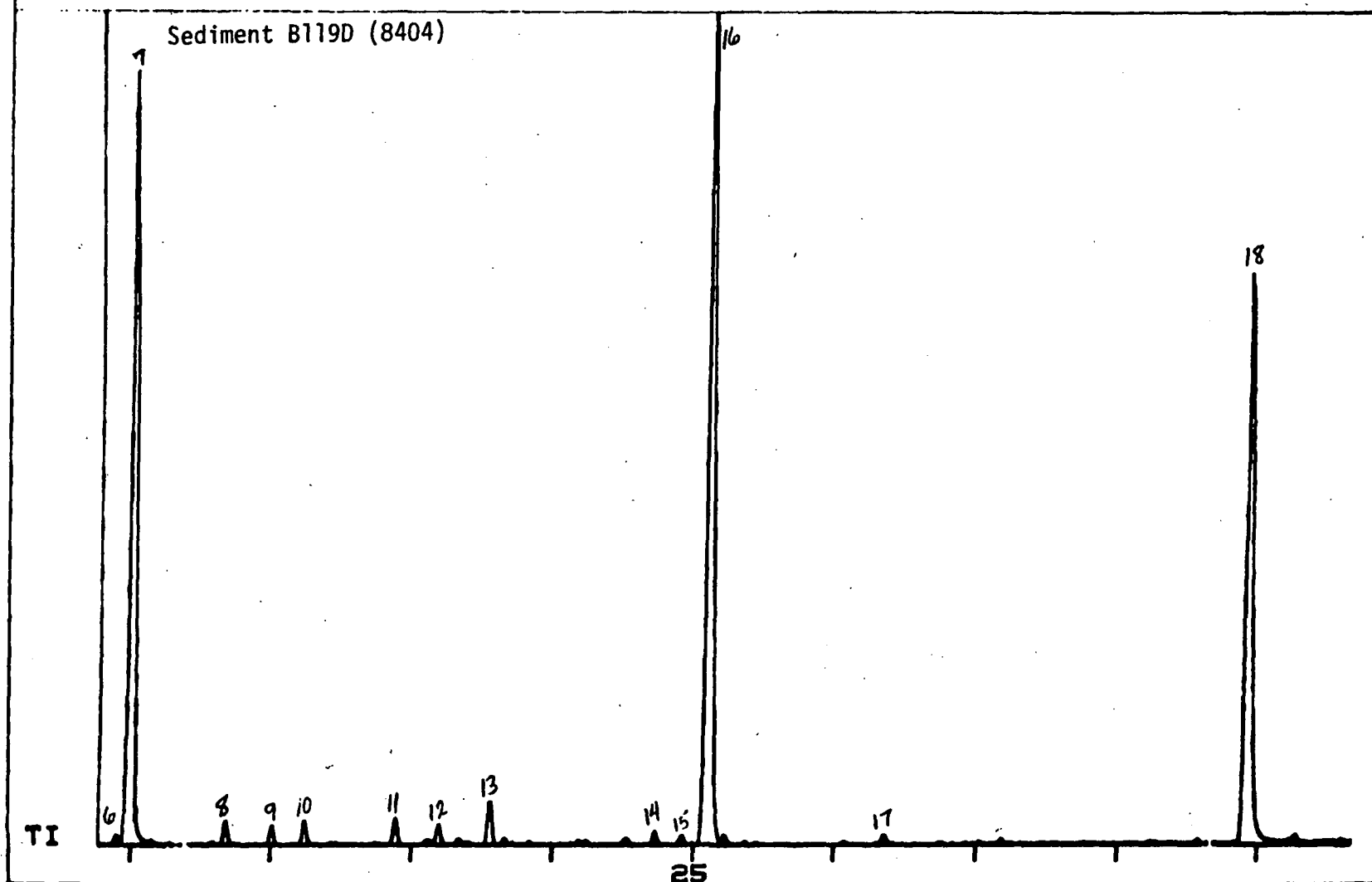


Figure I-3 (continued)

** BATCH PROCESSOR RECONSTRUCT **
1 UL 150/150 D10 + 8404-SED 9/16/81 BMH
50(4)-280(8) BTL#24 D13452

FRN 13452
1ST SC/PG:2797
X= .25 Y= 1.00

Sediment B119D (8404)

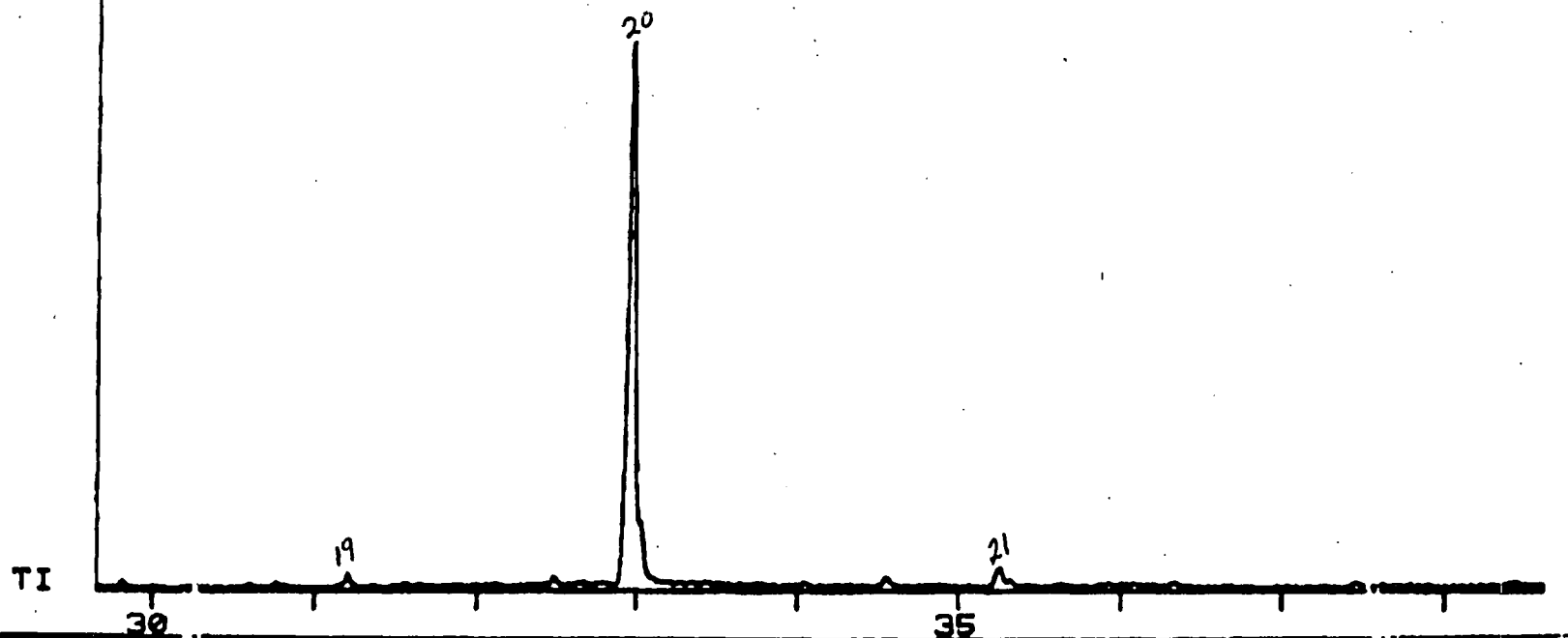


Figure I-3 (continued)

1 UL 150/150 D10 + 8393-SED 9/17/81 BMH
50(4)-2S0(8) BTL#8

** BATCH PROCESSOR RECONSTRUCT **

D13468

FRN 13468

1ST SC/PG: 1

X= .25 Y= 1.00

Sediment C150D (8393)

TI

5

10

Figure I-4. Chromatogram from the capillary GC/MS analysis of sediment sample C150D.

1 UL 150/150 D10 + 8393-SED 9/17/81 BMH
50(4)-280(8) BTL#8

FRN 13468
1ST SC/PG: 933
X= .25 Y= 1.00

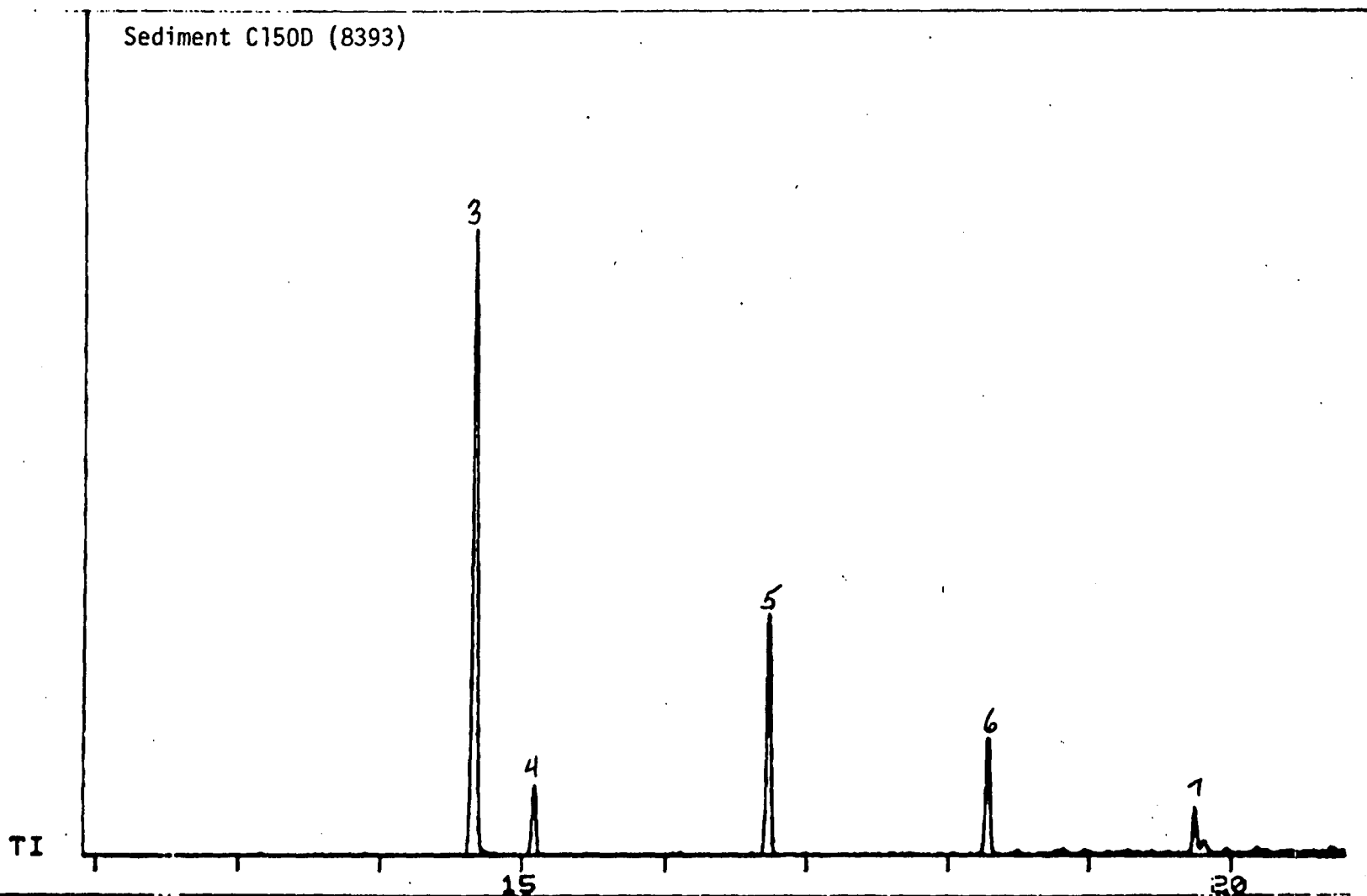


Figure I-4 (continued)

I-15

** BATCH PROCESSOR RECONSTRUCT **

1 UL 150/150 D10 + 8393-SED 9/17/81 BMH
50(4)-280(8) BTL#8 D13468

FFN 13468
1ST SC/PG:1865
X= .25 Y= 1.00

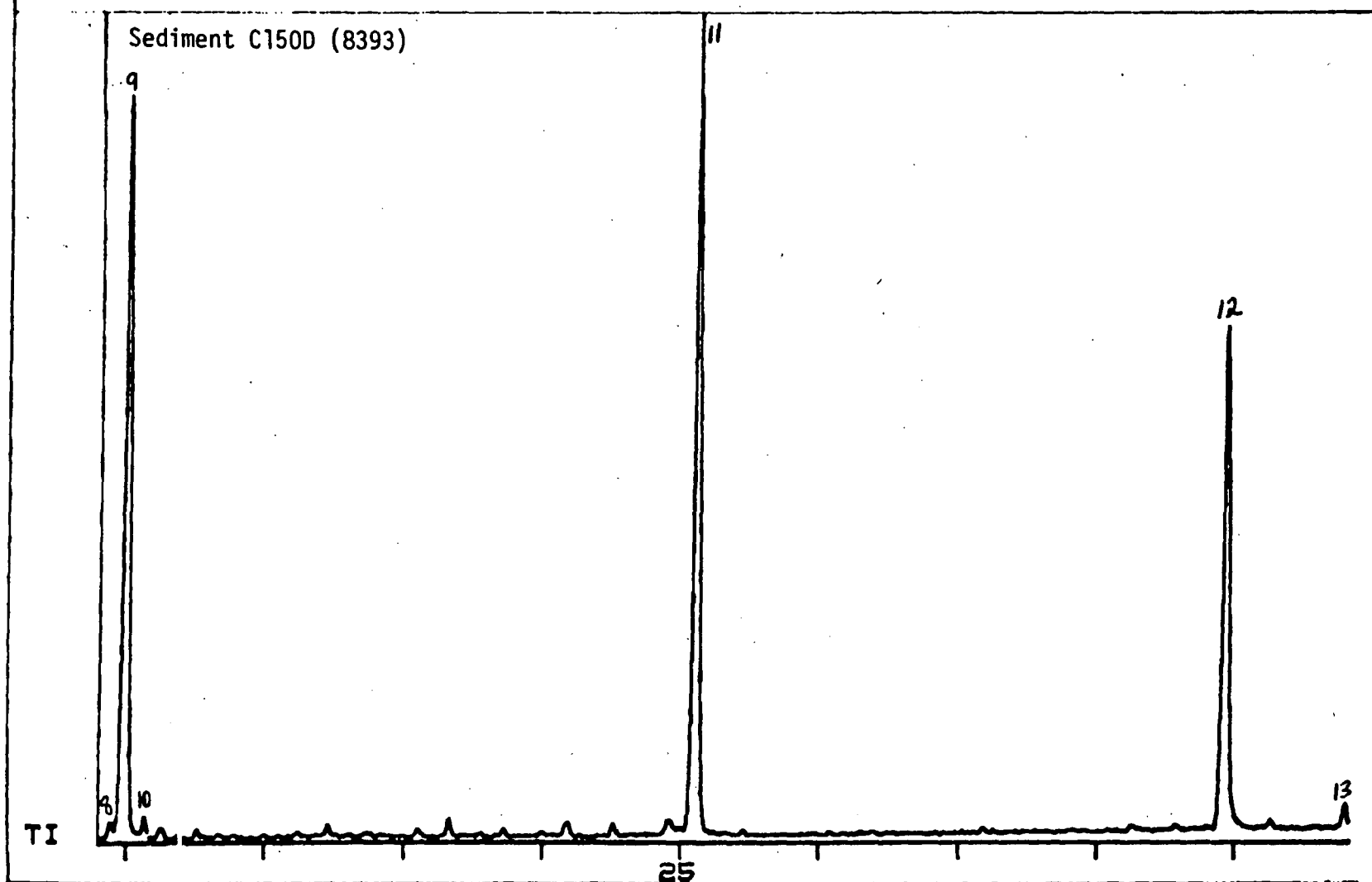


Figure I-4 (continued)

** BATCH PROCESSOR RECONSTRUCT **
1 UL 150/150 D10 + 8393-SED 9/17/81 BMH
50(4)-280(8) BTL#8 D13468

FRN 13468
1ST SC/PG:2797
X= .25 Y= 1.00

Sediment C150D (8393)

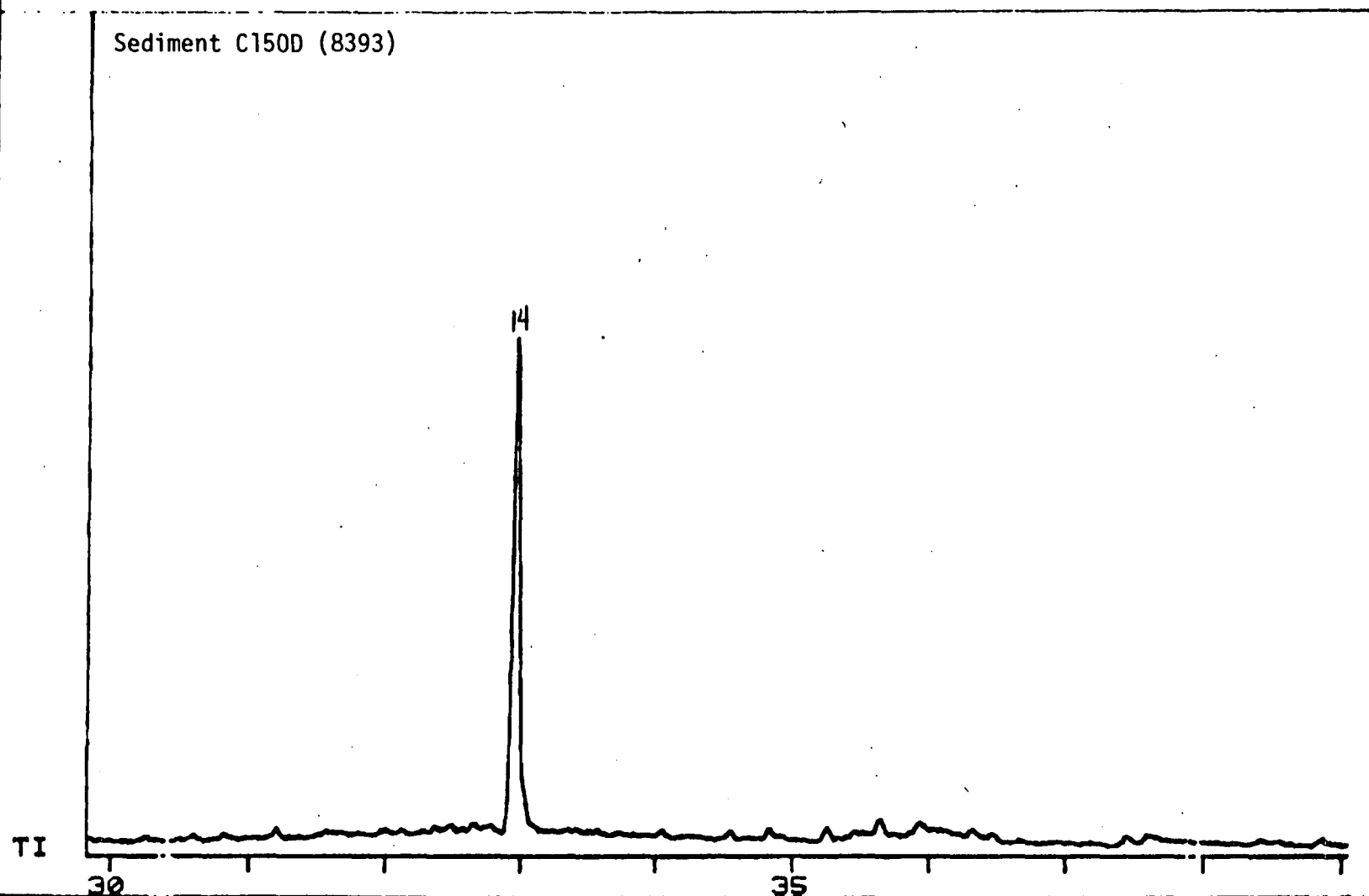


Figure I-4 (continued)

I-17

** BATCH PROCESSOR RECONSTRUCT **
1 UL 150/150 D10 + 8379-SED 9/16/81 BMH
50(4)-280(8) BTL#7

FRN 13435
1ST SC/PG: 1
X= .25 Y= 1.00
D13435

Sediment C156D (8379)

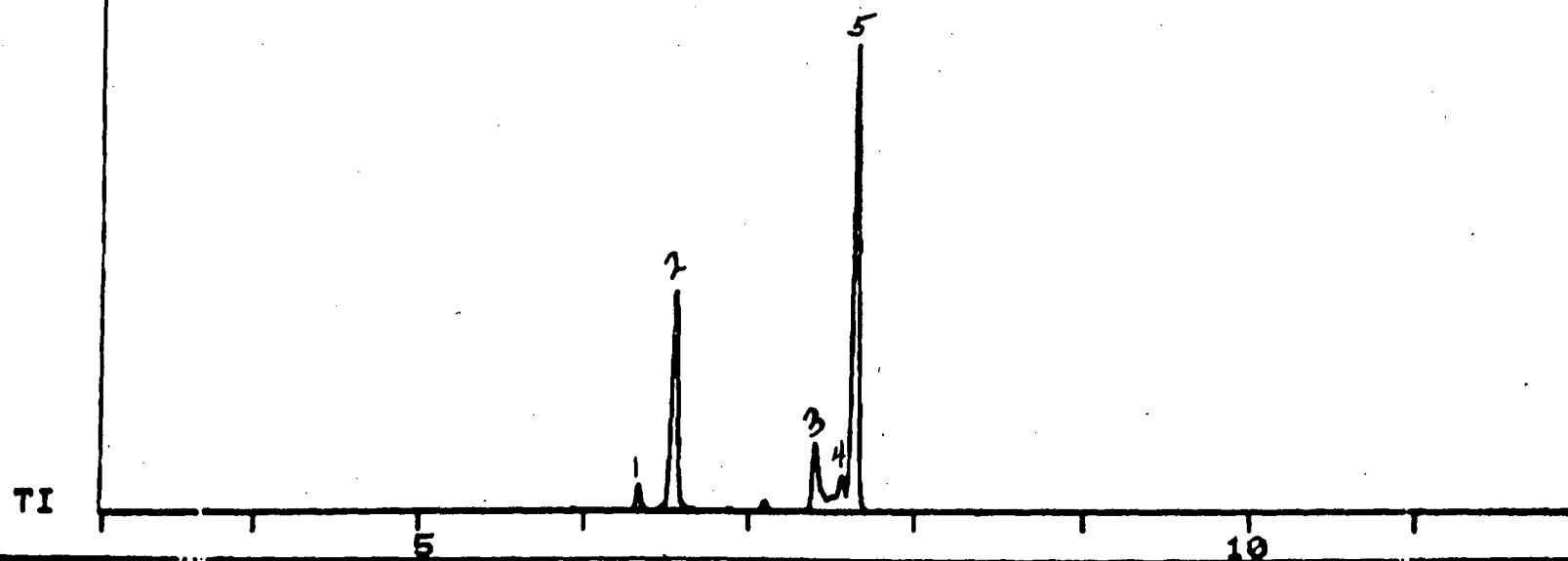


Figure I-5. Chromatogram from the capillary GC/MS analysis of sediment sample C156D.

** BATCH PROCESSOR RECONSTRUCT **
1 UL 150/150 D10 + 8379-SED 9/16/81 BMH
50(4)-280(8) BTL#7 D13435

FRN 13435
1ST SC/PG: 933
X= .25 Y= 1.00

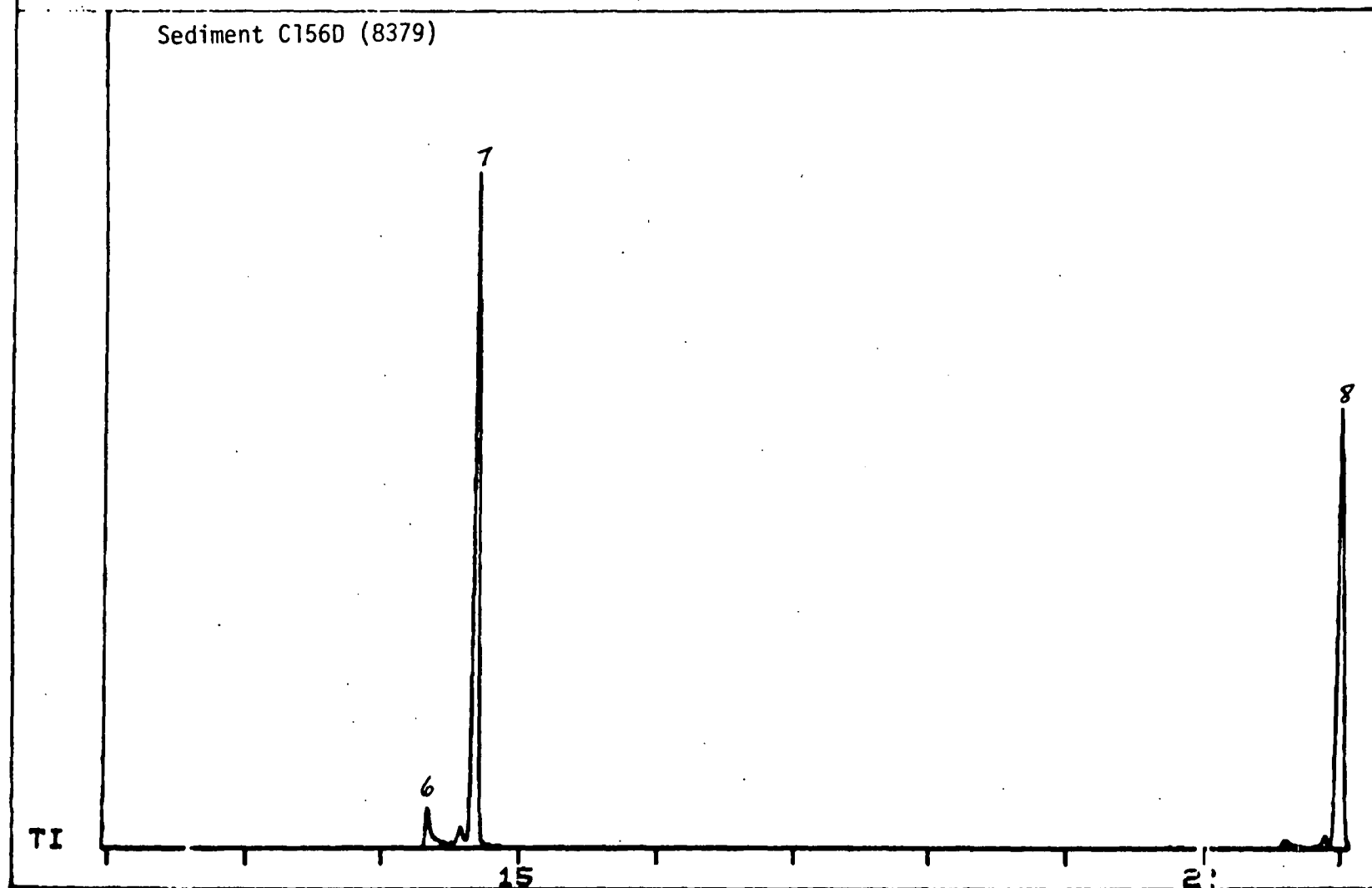


Figure I-5 (continued)

** BATCH PROCESSOR RECONSTRUCT **
1 UL 150/150 D10 + 8379-SED 9/16/81 BMH
50(4)-280(8) BTL#7 D13435

FRN 13435
1ST SC/PG:1865
X= .25 Y= 1.00

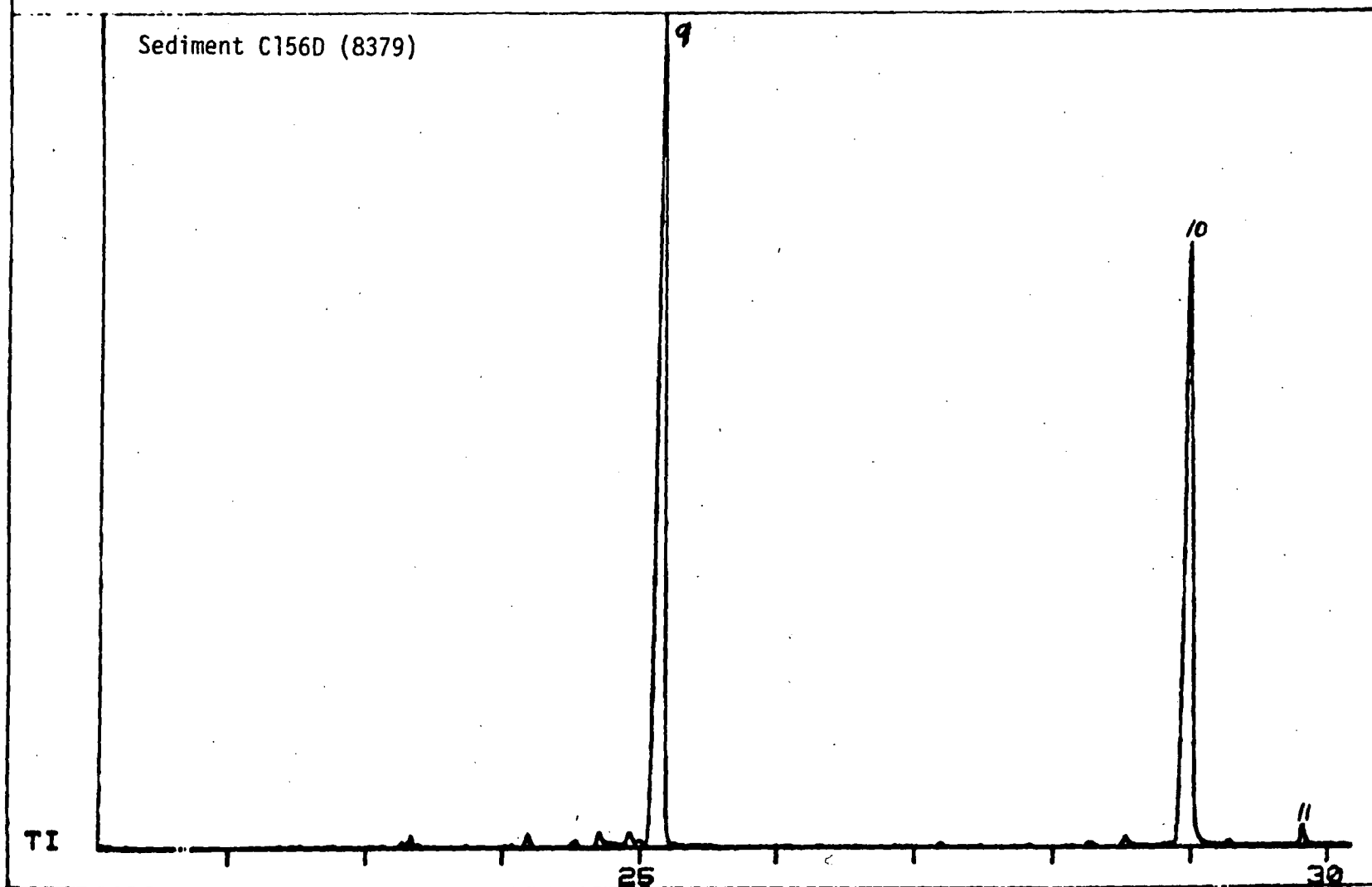


Figure I-5 (continued)

** BATCH PROCESSOR RECONSTRUCT **
1 UL 150/150 D10 + 8379-SED 9/16/81 BMH
50(4)-280(8) BTL#7 D13435

FRN 13435
1ST SC/PG:2797
X= .25 Y= 1.00

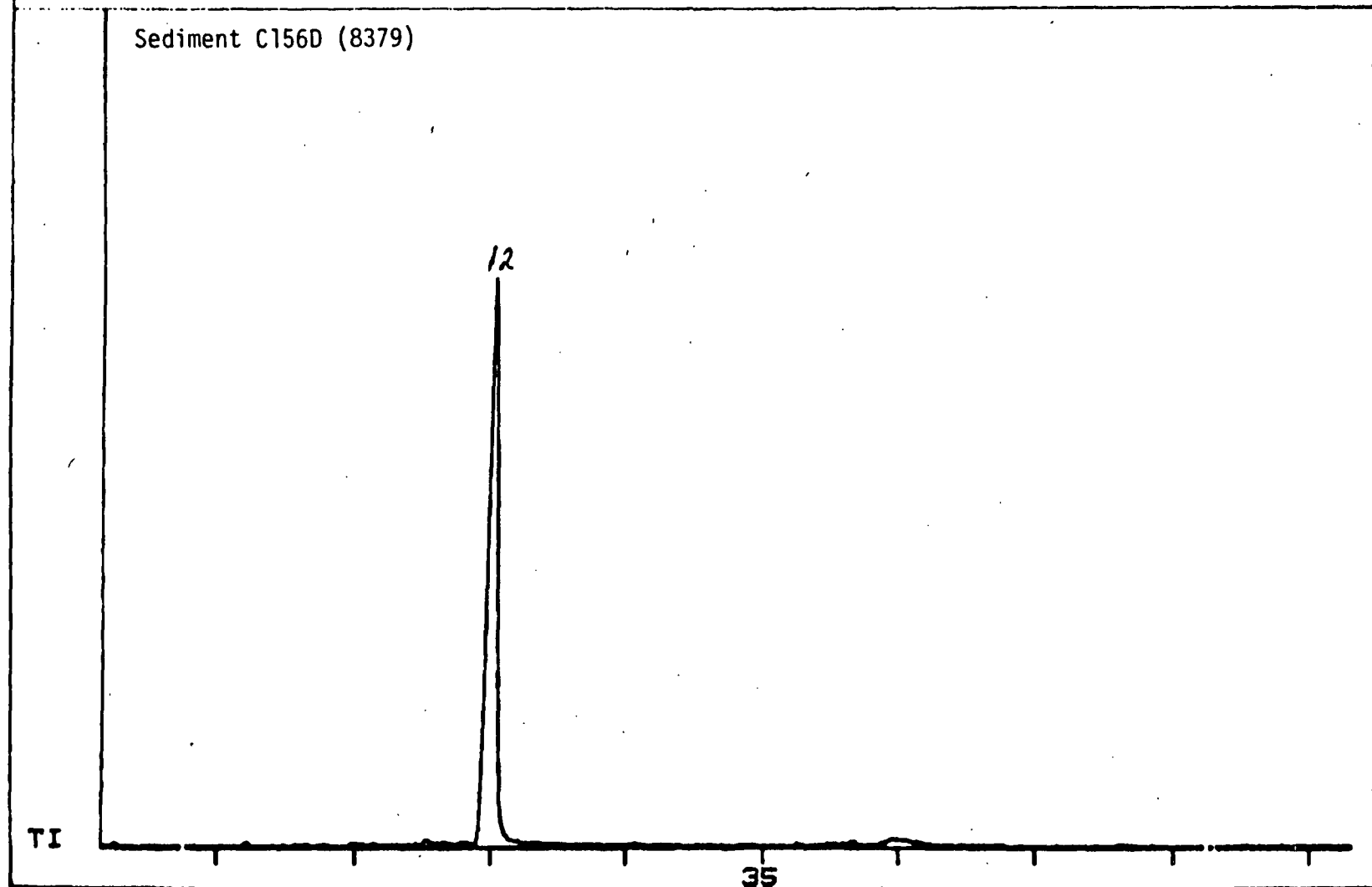


Figure I-5 (continued)

** BATCH PROCESSOR RECONSTRUCT **
1 UL 150/150 D10 + 8403-SED 9/16/81 BMH
50(4)-280(8) BTL#23 D13451
FRN 13451
1ST SC/PG: 1
X= .25 Y= 1.00

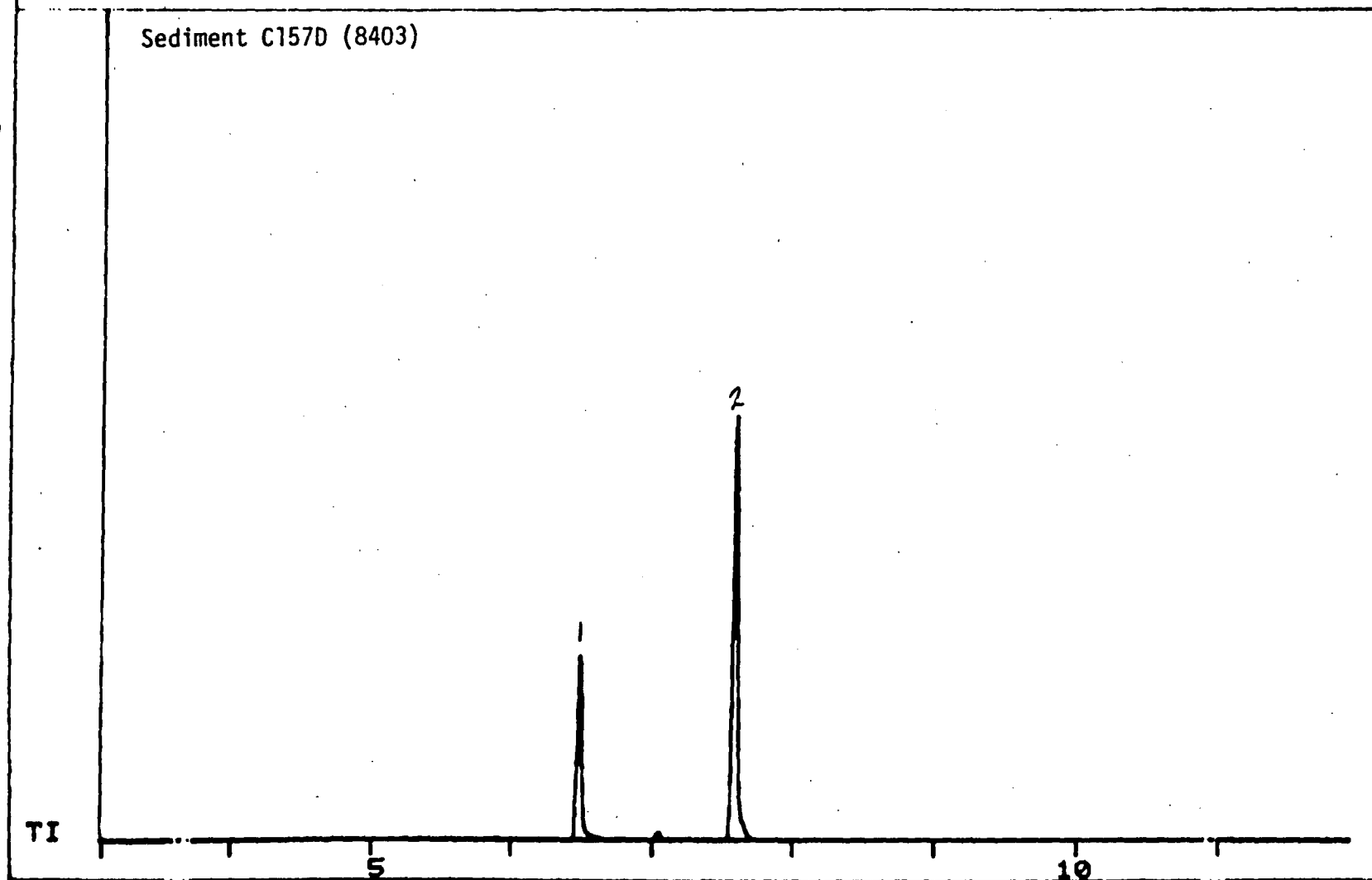


Figure I-6. Chromatogram from the capillary GC/MS analysis of sediment sample C157D.

** BATCH PROCESSOR RECONSTRUCT **

FRN 13451

1 UL 150/150 D10 + 8403-SED 9/16/81 BMH
50(4)-280(8) BTL#23 D13451

1ST SC/PG: 933
X= .25 Y= 1.00

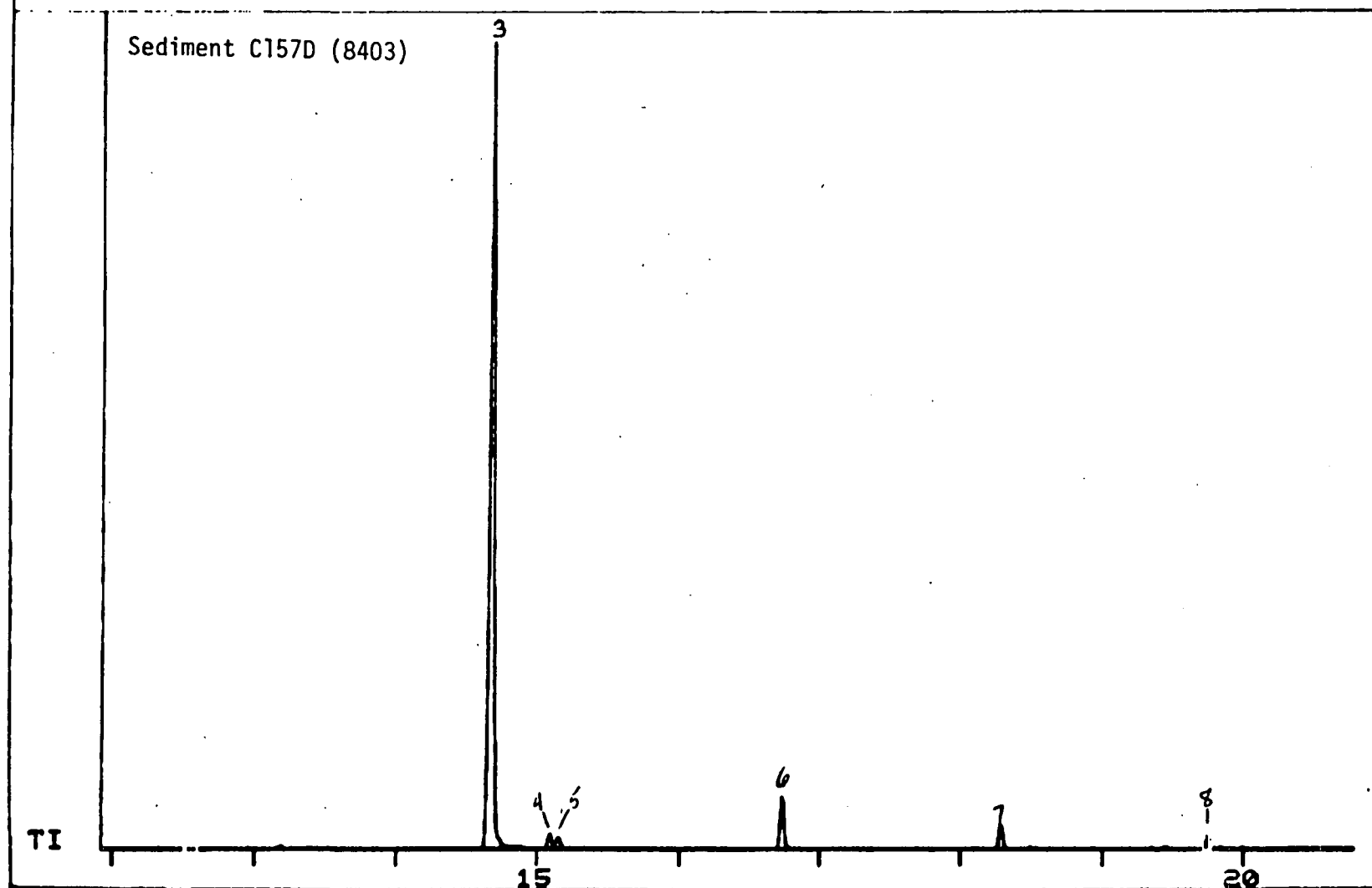


Figure I-6 (continued)

** BATCH PROCESSOR RECONSTRUCT **

FRN 13451

1 UL 150/150 D10 + 8403-SED 9/16/81 BMH
50(4)-280(8) BTL#23 D13451

1ST SC/PG:1865
X= .25 Y= 1.00

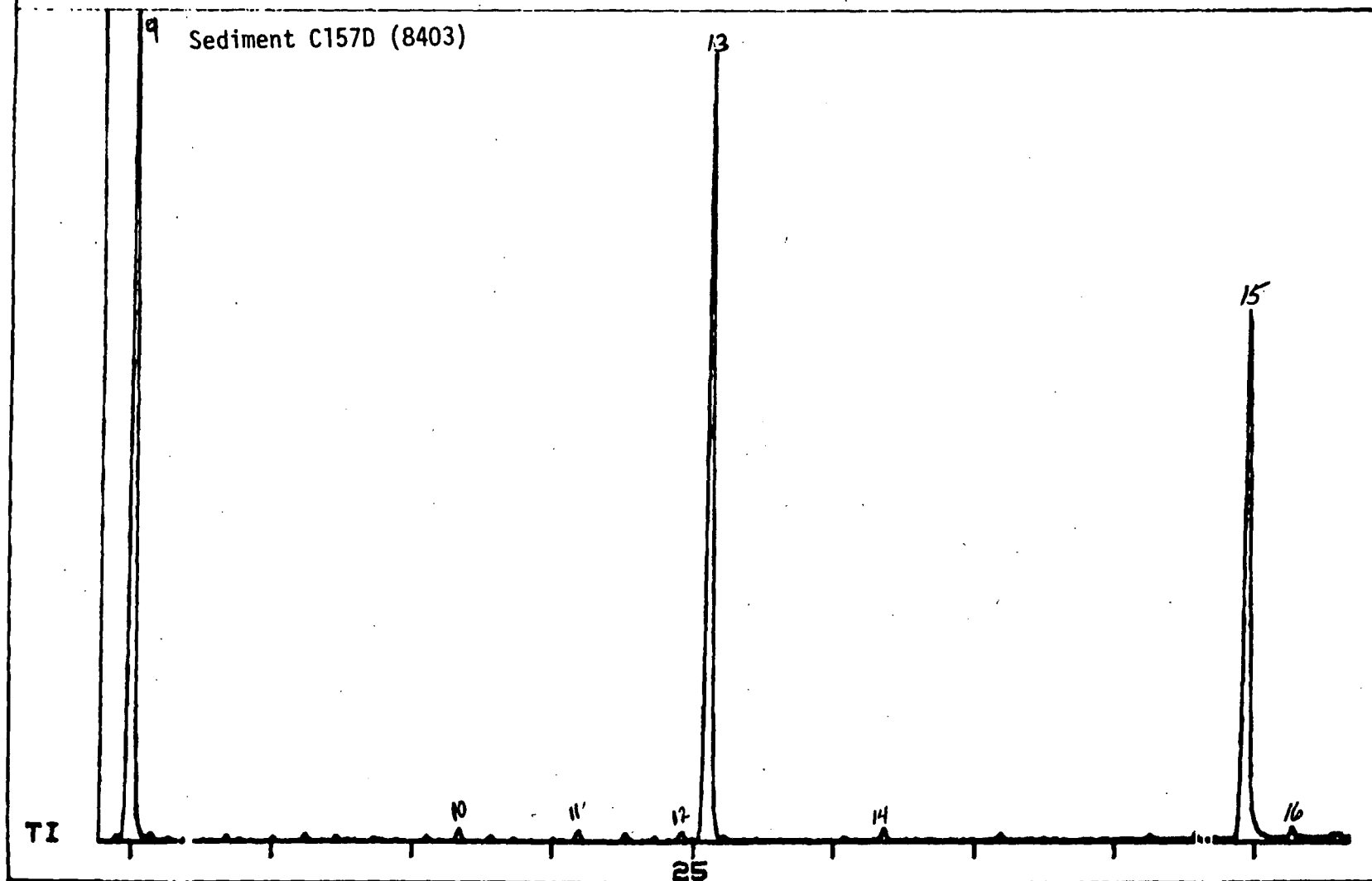


Figure I-6 (continued)

** BATCH PROCESSOR RECONSTRUCT **
1 UL 150/150 D10 + 8403-SED 9/16/81 BMH
50(4)-280(8) BTL#23 D13451

FRN 13451
1ST SC/PG:2797
X= .25 Y= 1.00

Sediment C157D (8403)

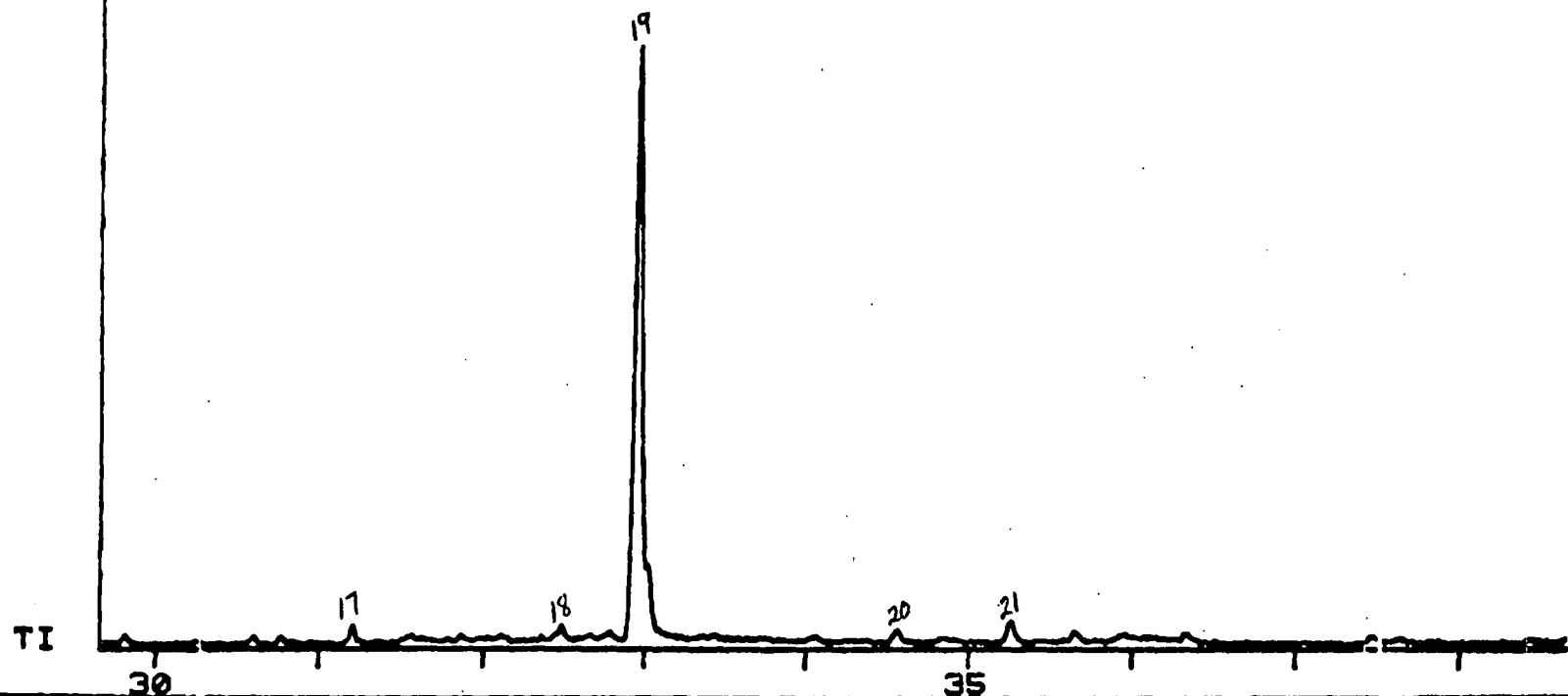


Figure I-6 (continued)

** BATCH PROCESSOR RECONSTRUCT **
1 UL 150/150 D10 + 8377-SED 9/15/81 BMH
50(4)-280(8) BTL#4 D13432

FRN 13432
1ST SC/PG: 1
X= .25 Y= 1.00

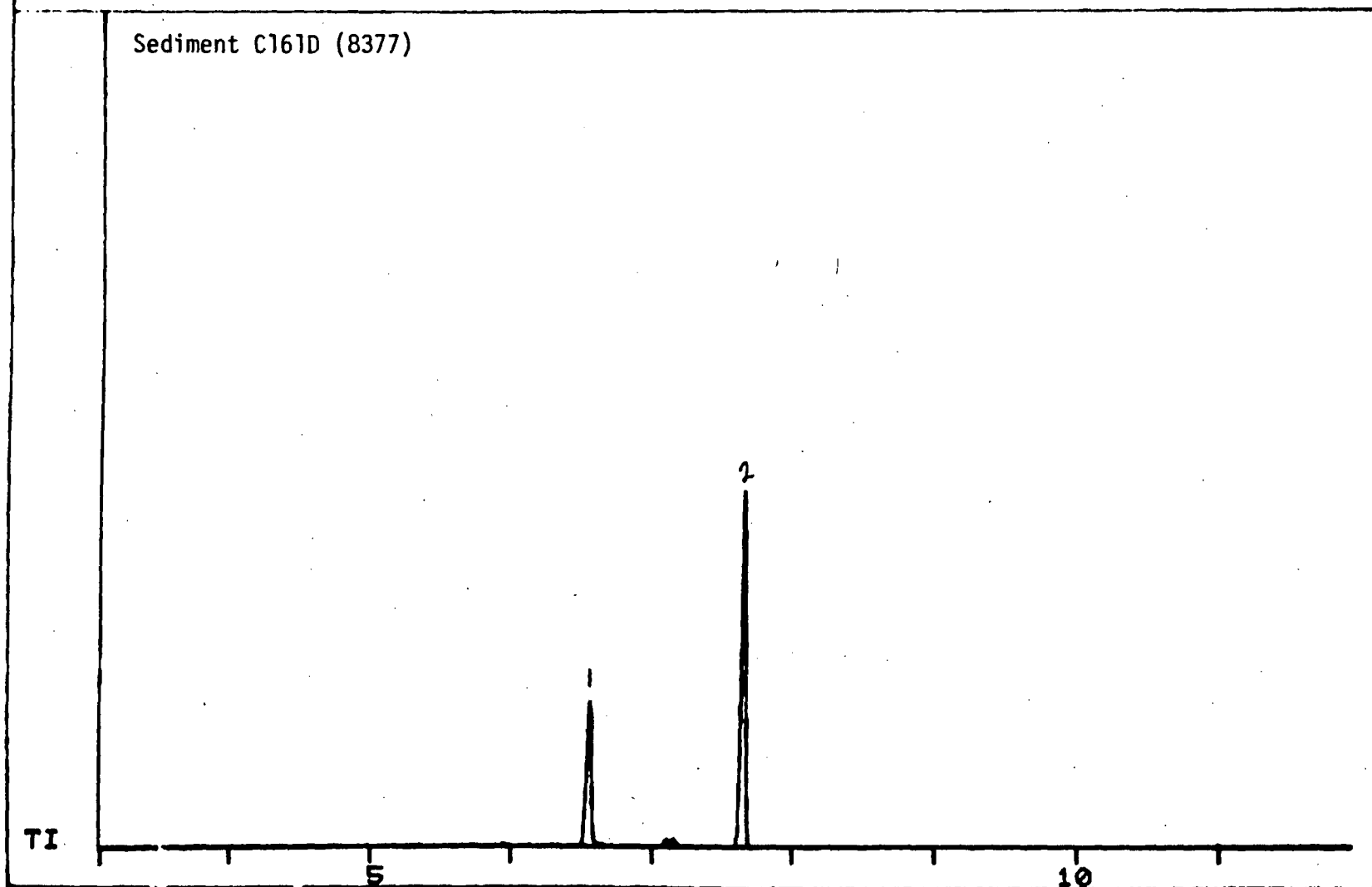


Figure I-7. Chromatogram from the capillary GC/MS analysis of sediment sample C161D.

1 UL 150/150 D10 + 8377-SED 9/15/81 BMH
50(4)-280(3) BTL#4

FRN 13432
1ST SC/PG: 933
X= .25 Y= 1.00

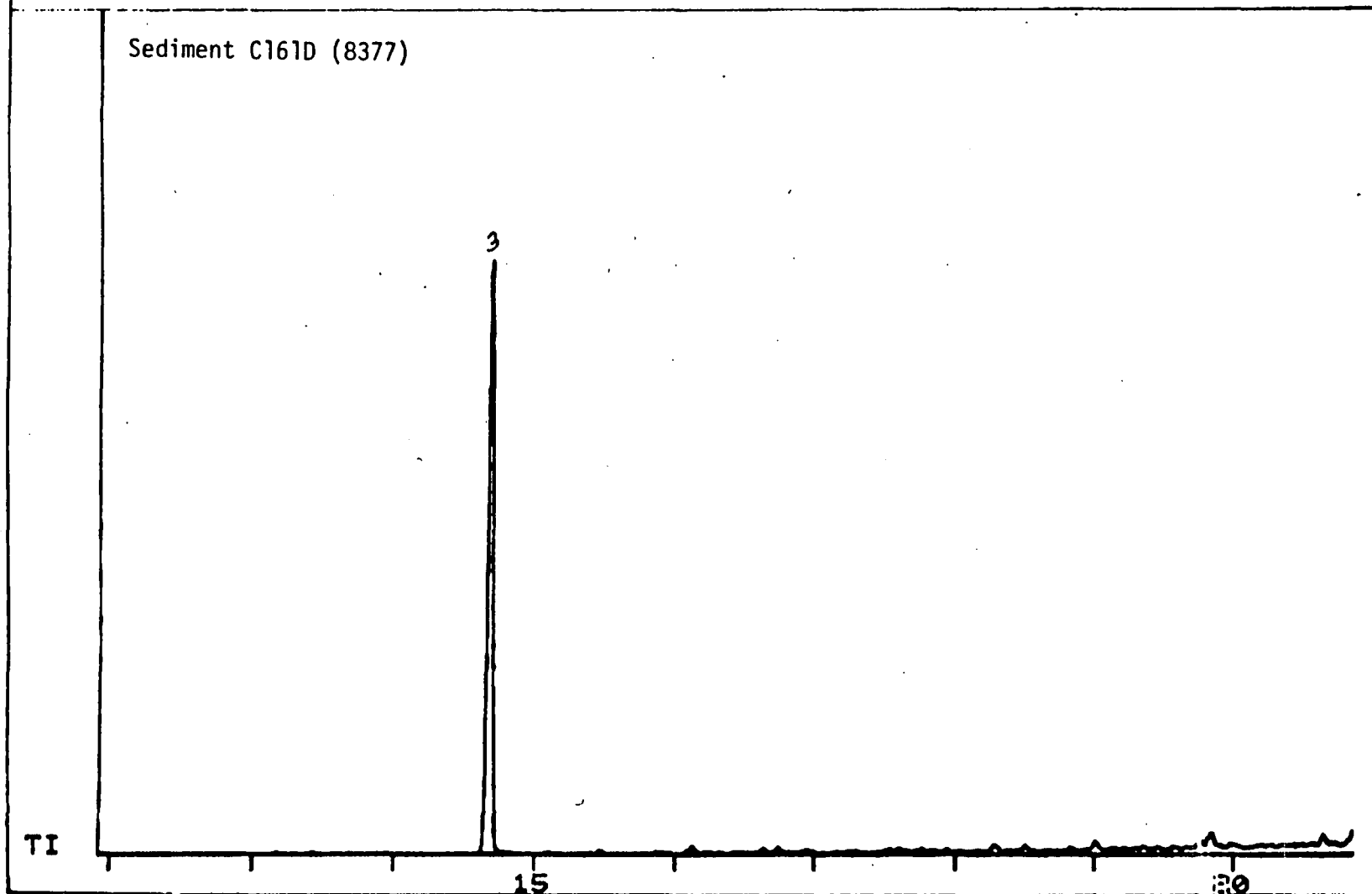


Figure I-7 (continued)

** BATCH PROCESSOR RECONSTRUCT **
1 UL 150/150 D10 + 8377-SED 9/15/81 BMH
50(4)-280(8) BTL#4 D13432

FRN 13432
1ST SC/PG:1865
X= .25 Y= 1.00

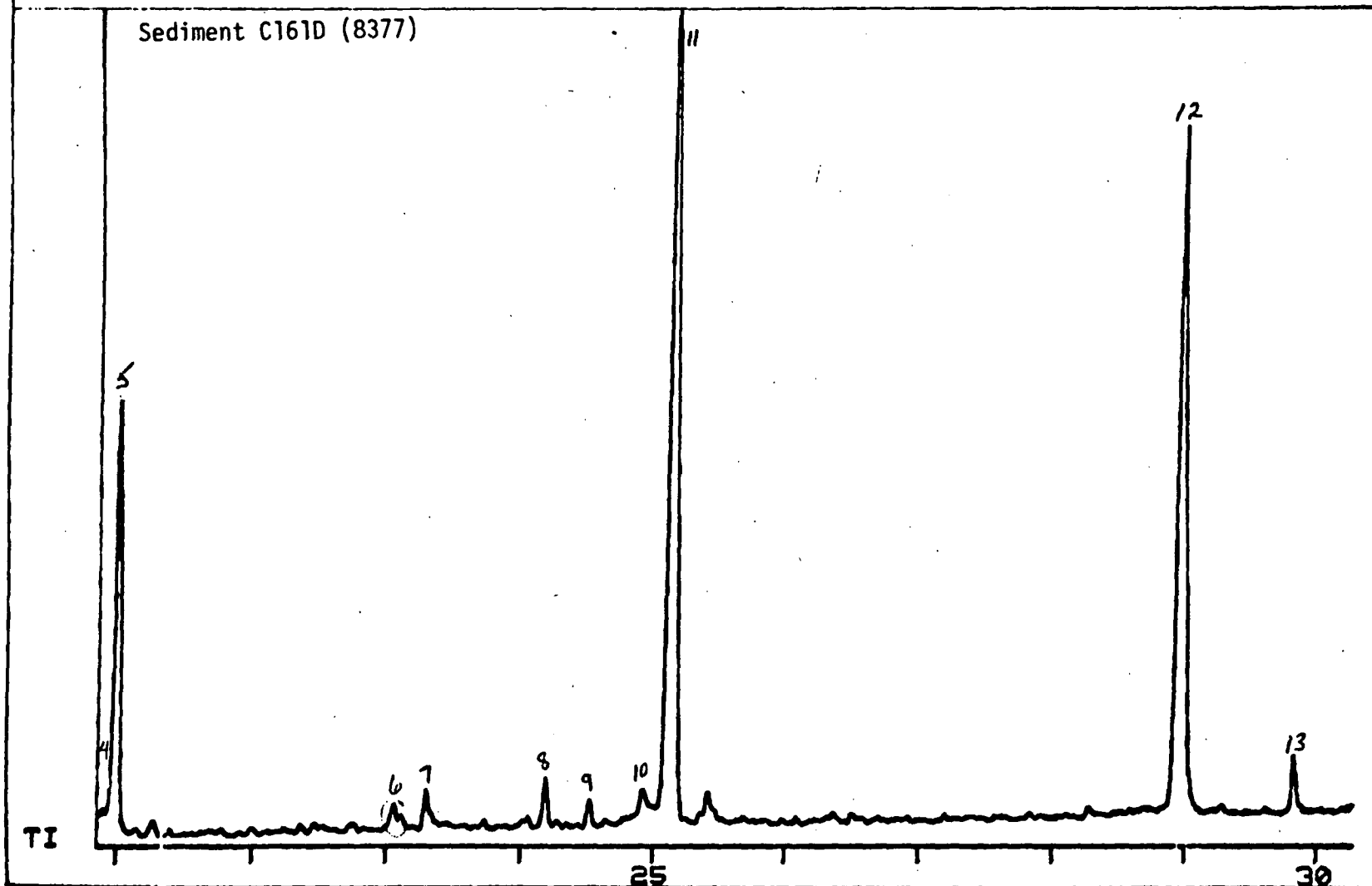


Figure I-7 (continued)

** BATCH PROCESSOR RECONSTRUCT **
1 UL 150/150 D10 + 8377-SED 9/15/81 BMH
50(4)-280(8) BTL#4 D13432

FRN 13432
1ST SC/PG:2797
X= .25 Y= 1.00

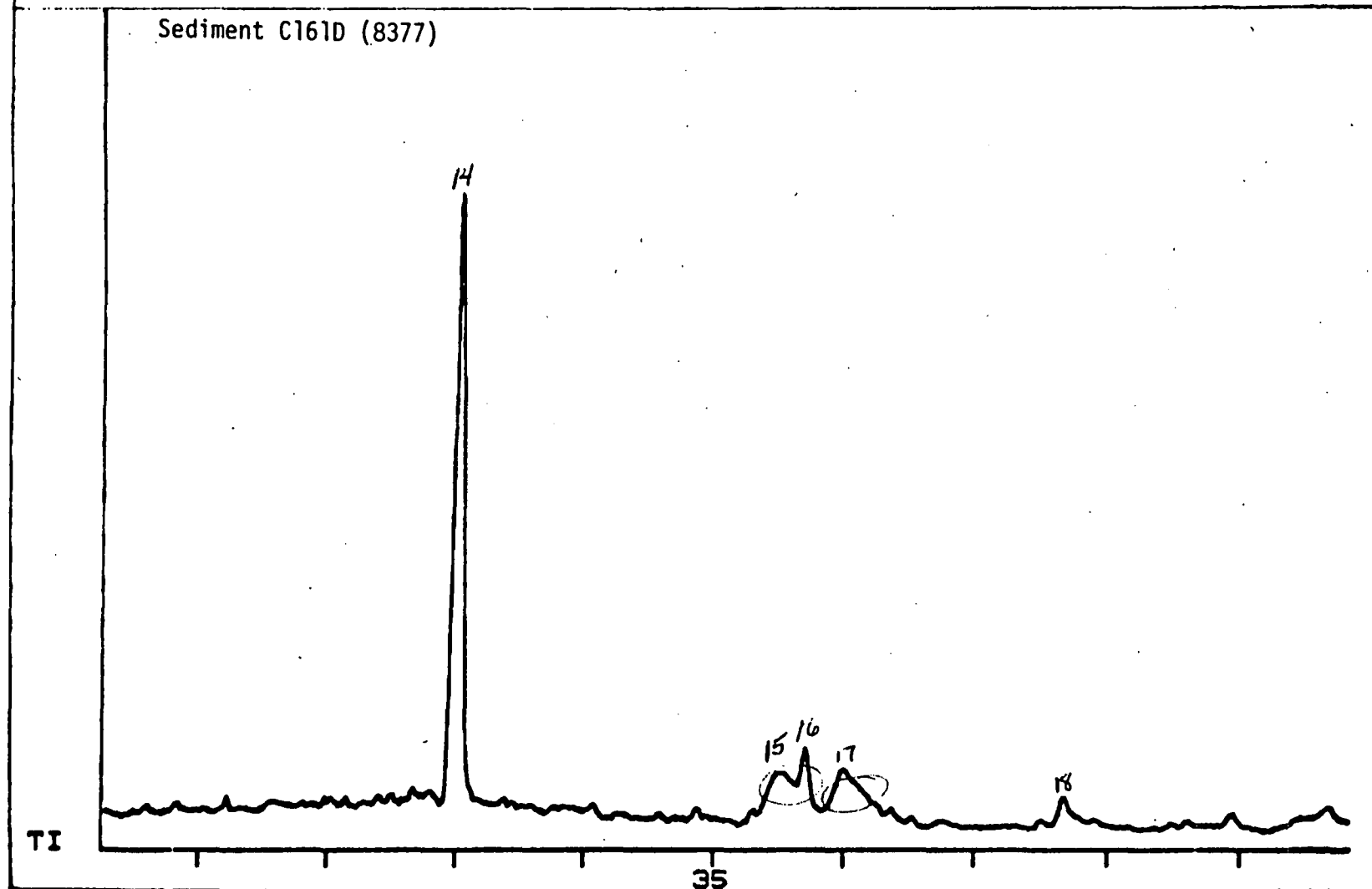


Figure I-7 (continued)

** BATCH PROCESSOR RECONSTRUCT **
1 UL 150/150 D10 + 8407-SED 9/16/81 BMH
50(4)-230(8) BTL#27 D13455

FRN 13455
1ST SC/PG: 1
X= .25 Y= 1.00

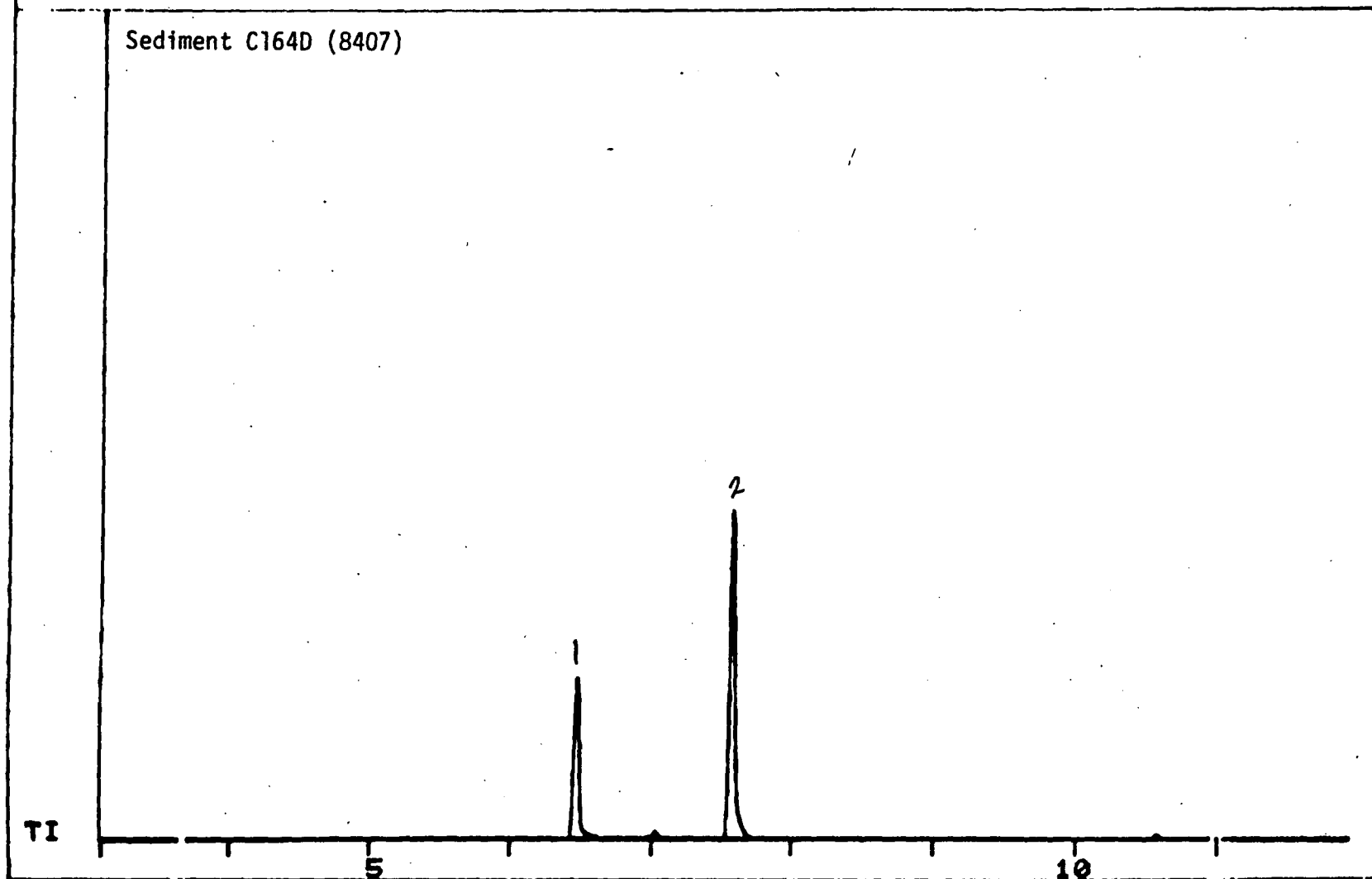


Figure I-8. Chromatogram from the capillary GC/MS analysis of sediment sample C164D.

** BATCH PROCESSOR RECONSTRUCT **

FRN 13455

1 UL 150/150 D10 + 8407-SED 9/16/81 BMH

1ST SC/PG: 933

50(4)-280(8) BTL#27

D13455

X= .25 Y= 1.00

Sediment C164D (8407)

3

TI

15

20

Figure I-8 (continued)

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** BATCH PROCESSOR RECONSTRUCT **
1 UL 150/150 D10 + 8407-SED 9/16/81 BMH
50(4)-280(8) BTL#27 D13455

FRN 13455
1ST SC/PG:1865
X= .25 Y= 1.00

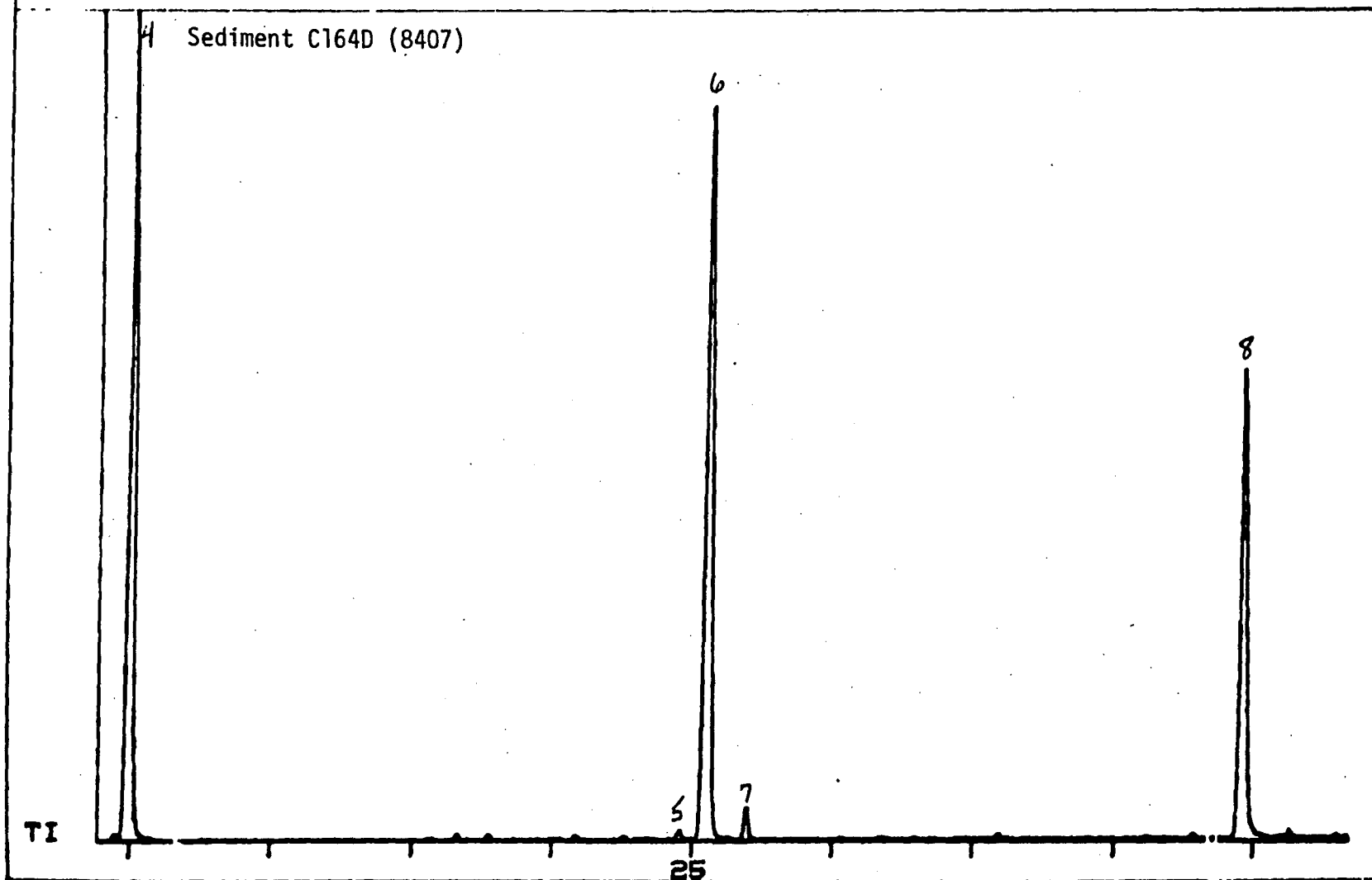


Figure I-8 (continued)

** BATCH PROCESSOR RECONSTRUCT **

FRN 13455

1 UL 150/150 D10 + 8407-SED 9/16/81 BMH
50(4)-280(8) BTL#27 D13455

1ST SC/PG:2797
X= .25 Y= 1.00

Sediment C164D (8407)

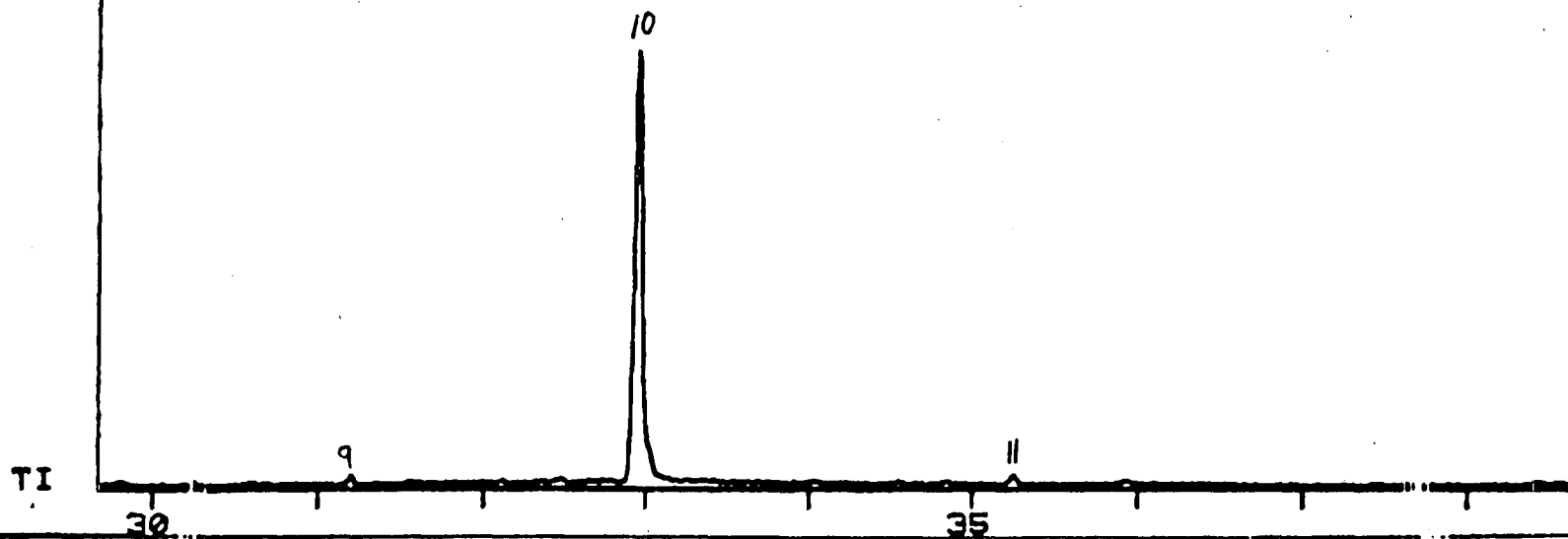


Figure I-8 (continued)

I-33

1 UL 150/150 D10 + 8385-SED 9/17/81 BMH
50(4)-280(8) BTL#5

FRN 13465
1ST SC/PG: 1
X= .25 Y= 1.00

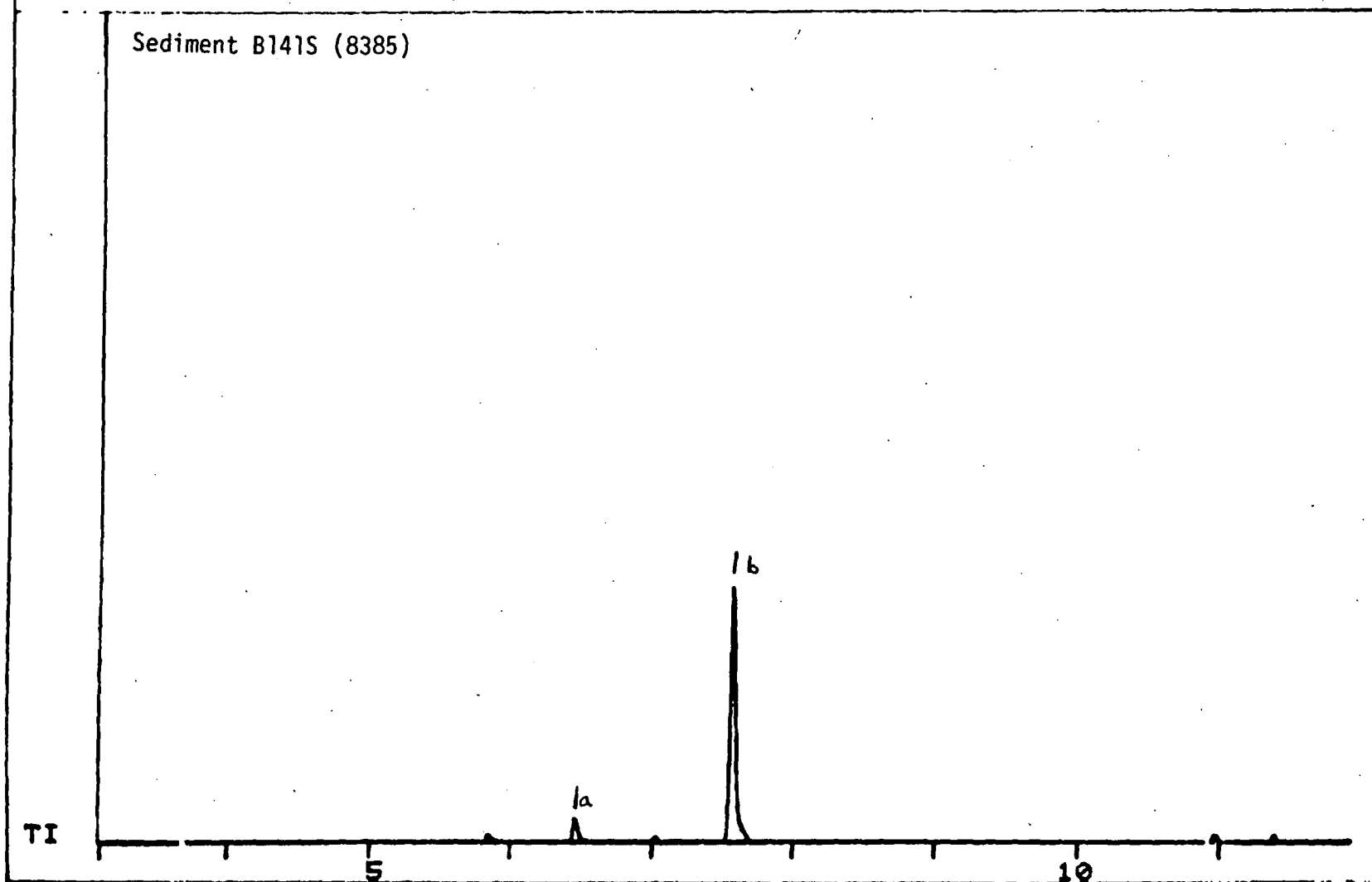


Figure I-9. Chromatogram from the capillary GC/MS analysis of sediment sample B141S.

** BATCH PROCESSOR RECONSTRUCT **
1 UL 150/150 D10 + 8385-SED 9/17/81 BMH
50(4)-280(8) BTL#5

FPN 13465
1ST SC/PG: 933
X= .25 Y= 1.00

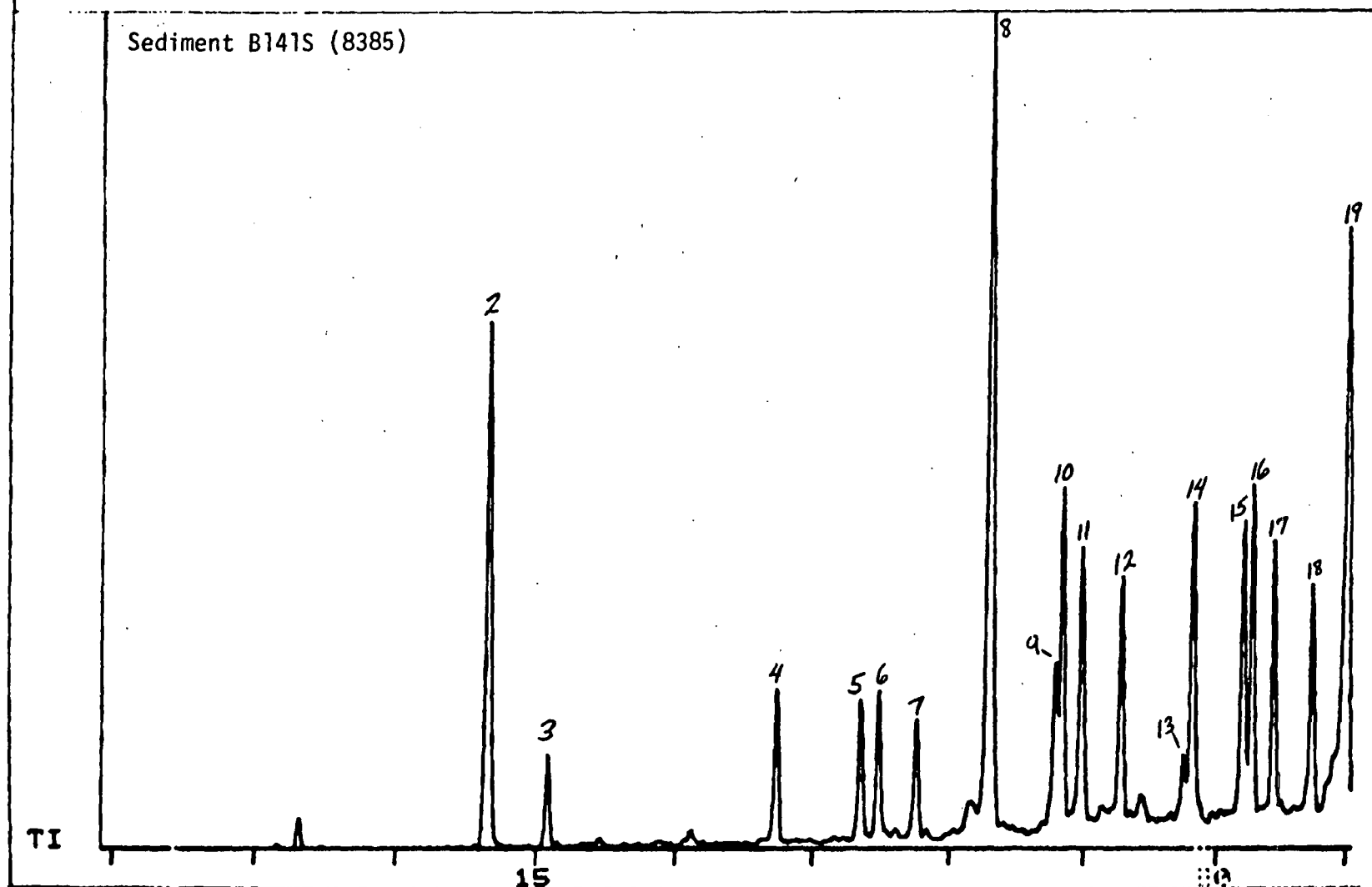


Figure I-9 (continued)

** BATCH PROCESSOR RECONSTRUCT **
1 UL 150/150 D10 + 8385-SED 9/17/81 BMH
50(4)-280(8) BTL#5 D13465

FRN 13465
1ST SC/PG:1865
X= .25 Y= 1.00

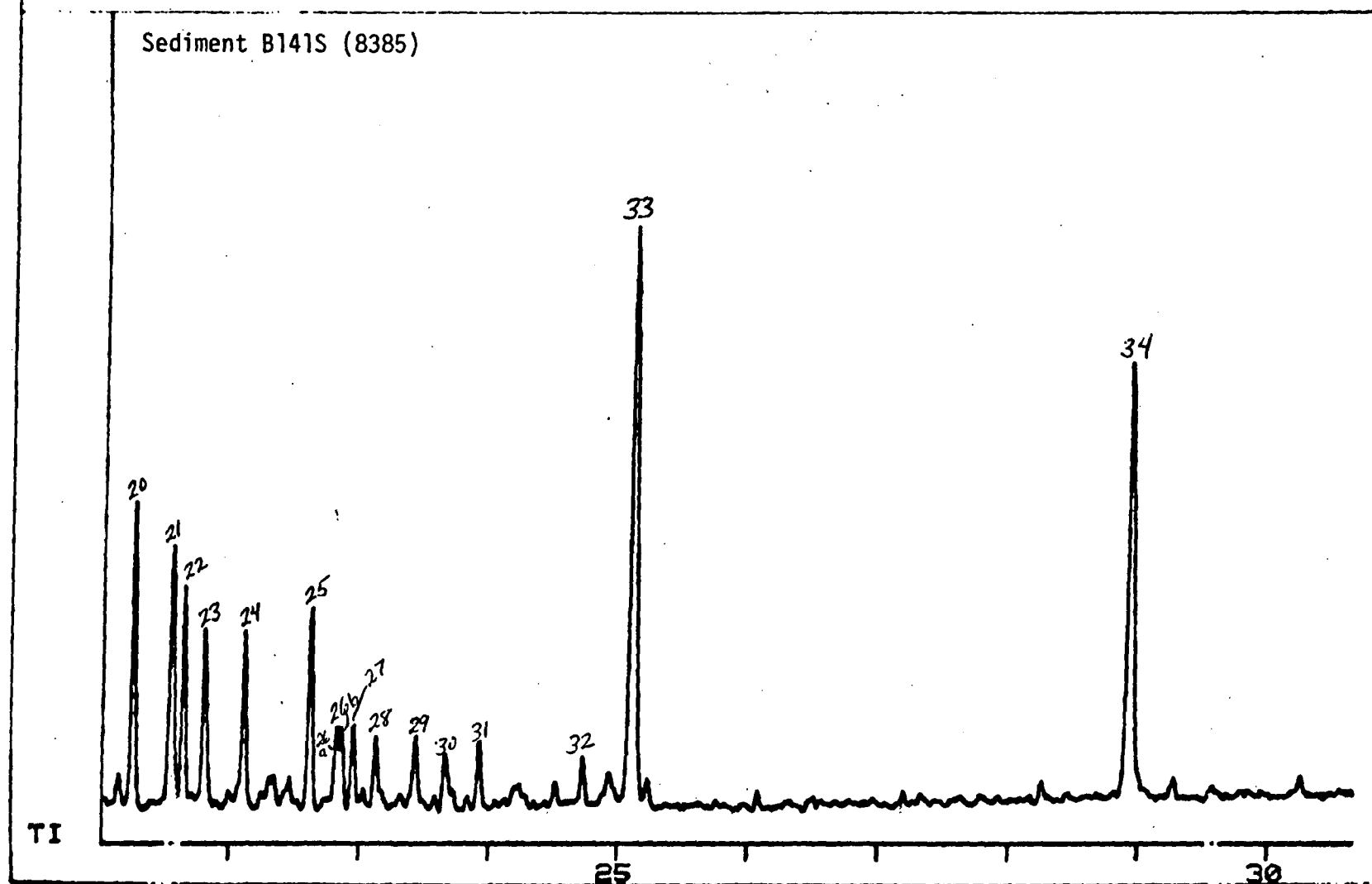


Figure I-9 (continued)

** BATCH PROCESSOR RECONSTRUCT **

FRN 13465

1 UL 150/150 D10 + 8385-SED 9/17/81 BMH

1ST SC/PG:2797

50(4)-280(8) BTL#5

D13465

X= .25 Y= 1.00

Sediment B141S (8385)

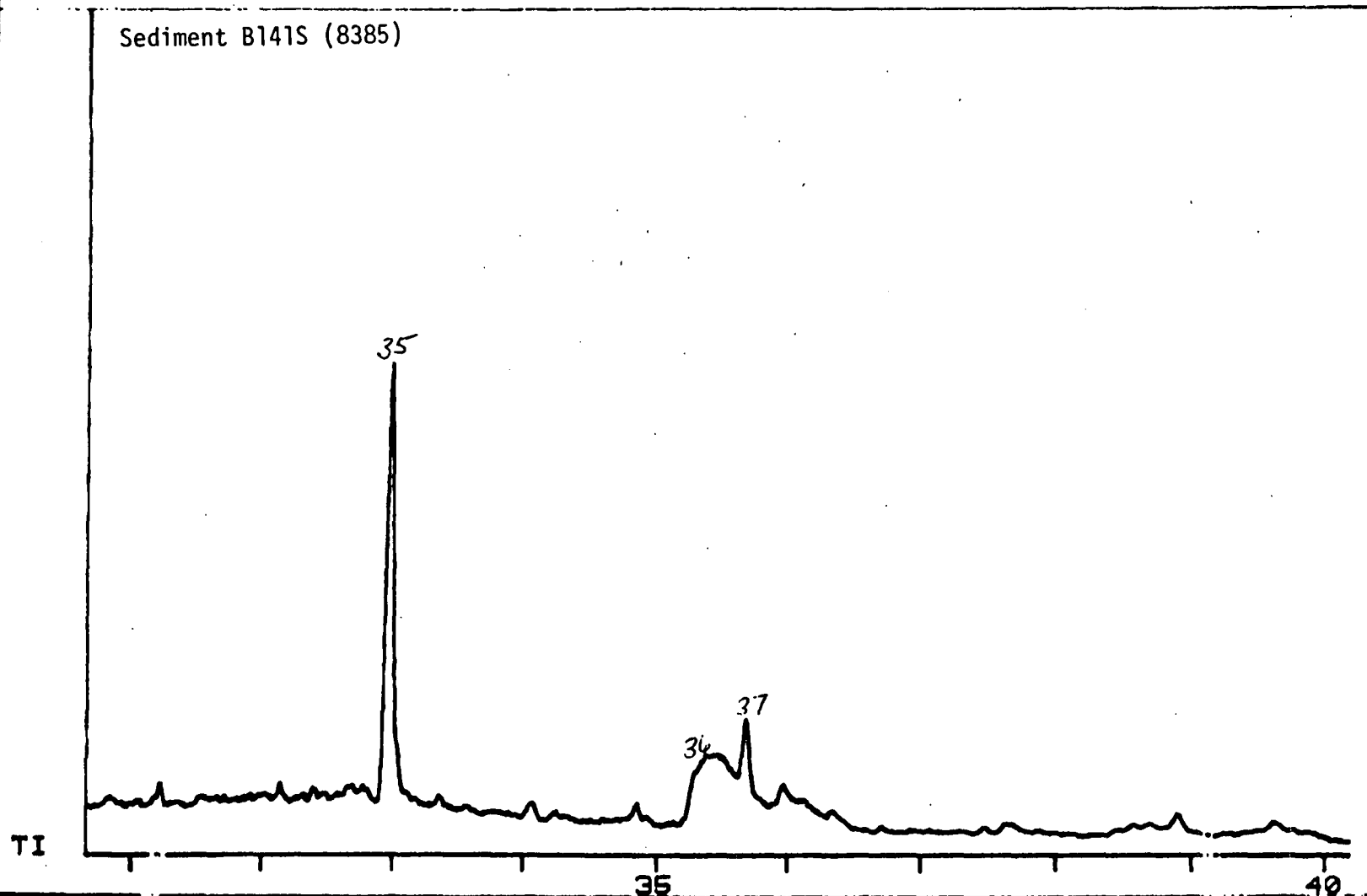


Figure I-9 (continued)

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** BATCH PROCESSOR RECONSTRUCT **
1 UL 150/150 D10 + 8386-SED 9/17/81 BMH
50(4)-280(8) BTL#6 D13466

FRN 13466
1ST SC/PG: 1
X= .25 Y= 1.00

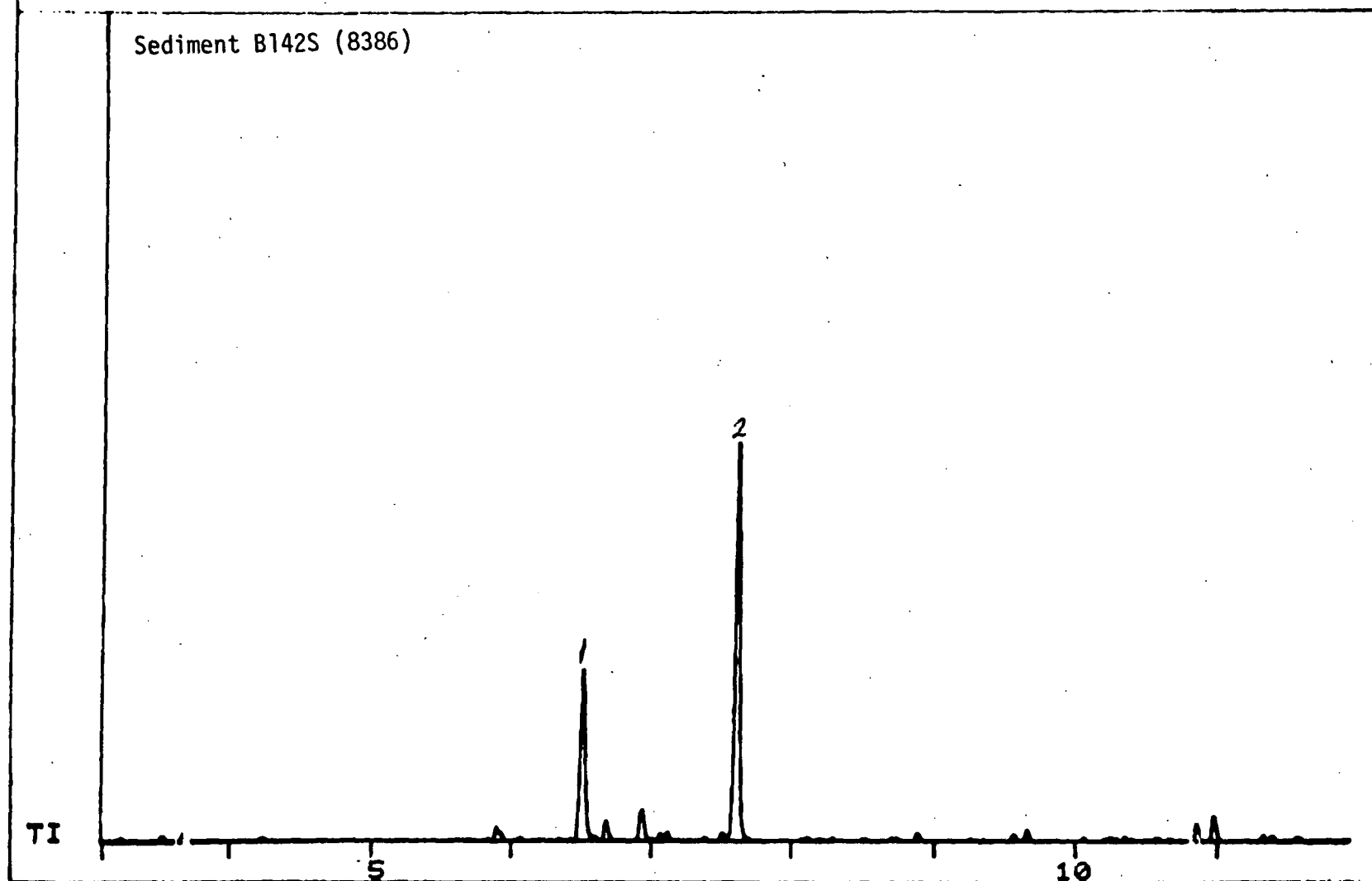


Figure I-10. Chromatogram from the capillary GC/MS analysis of sediment sample B142S.

** BATCH PROCESSOR RECONSTRUCT **
1 UL 150/150 D10 + 8386-SED 9/17/81 BMH
50(4)-280(8) BTL#6 D13466

FPN 13466
1ST SC/PG: 933
X= .25 Y= 1.00

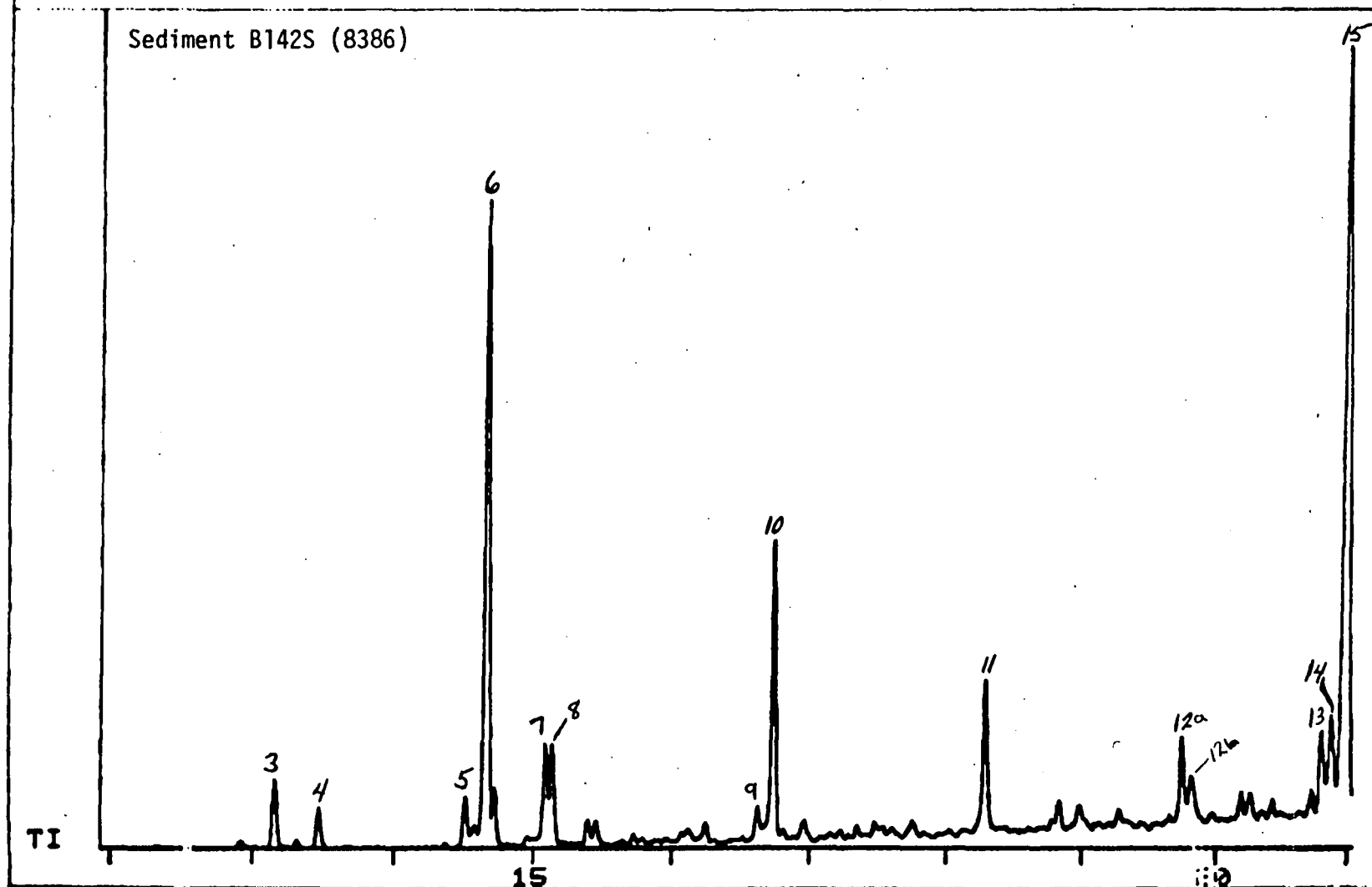


Figure I-10 (continued)

** BATCH PROCESSOR RECONSTRUCT **
1 UL 150/150 D10 + 8386-SED 9/17/81 BMH
50(4)-280(8) BTL#6 D13466

FRN 13466
1ST SC/PG:1865
X= .25 Y= 1.00

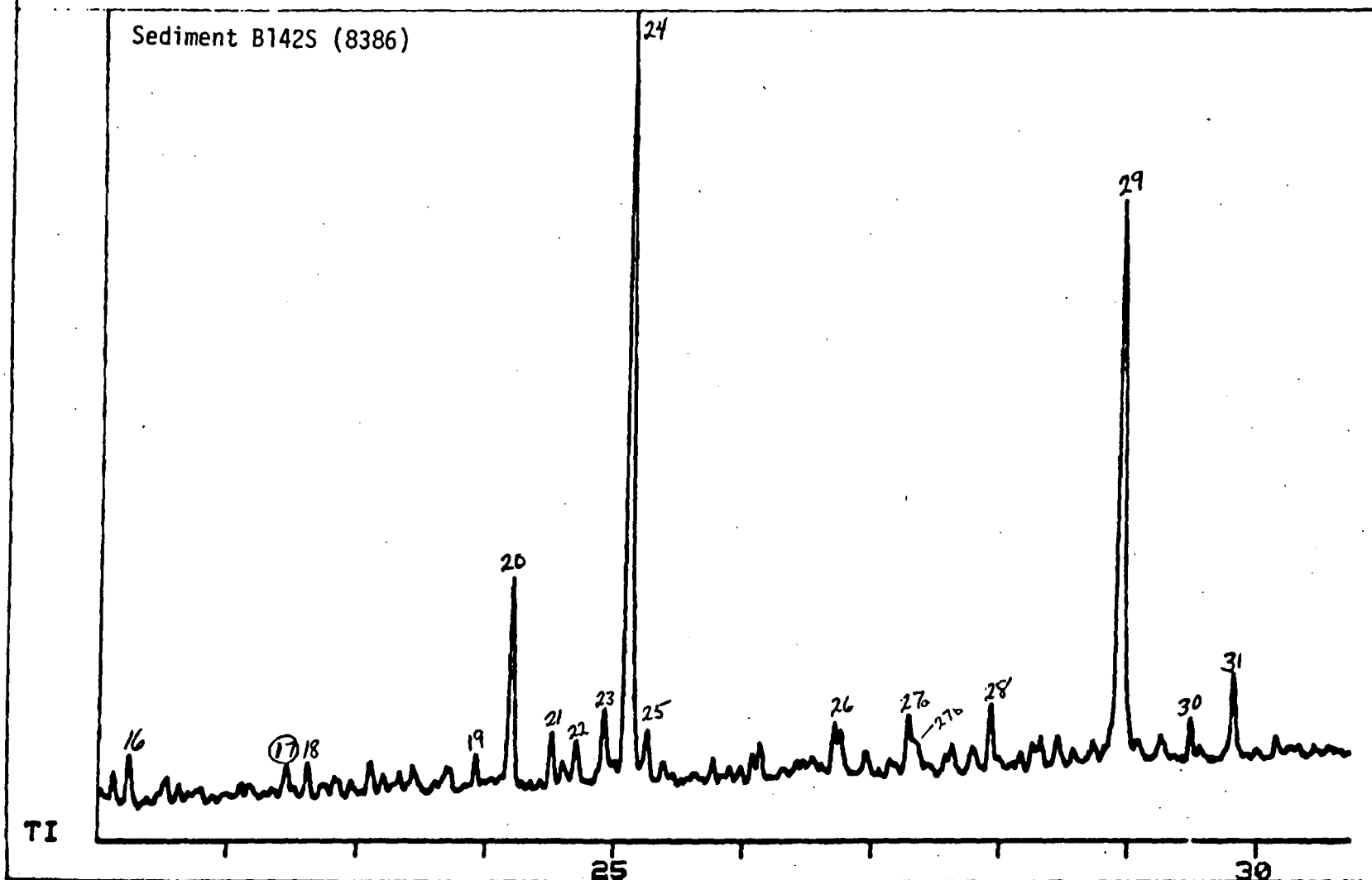


Figure I-10 (continued)

** BATCH PROCESSOR RECONSTRUCT **
1 UL 150/150 D10 + 8386-SED 9/17/81 BMH
50(4)-280(8) BTL#6 D13466

FRN 13466
1ST SC/PG:2797
X= .25 Y= 1.00

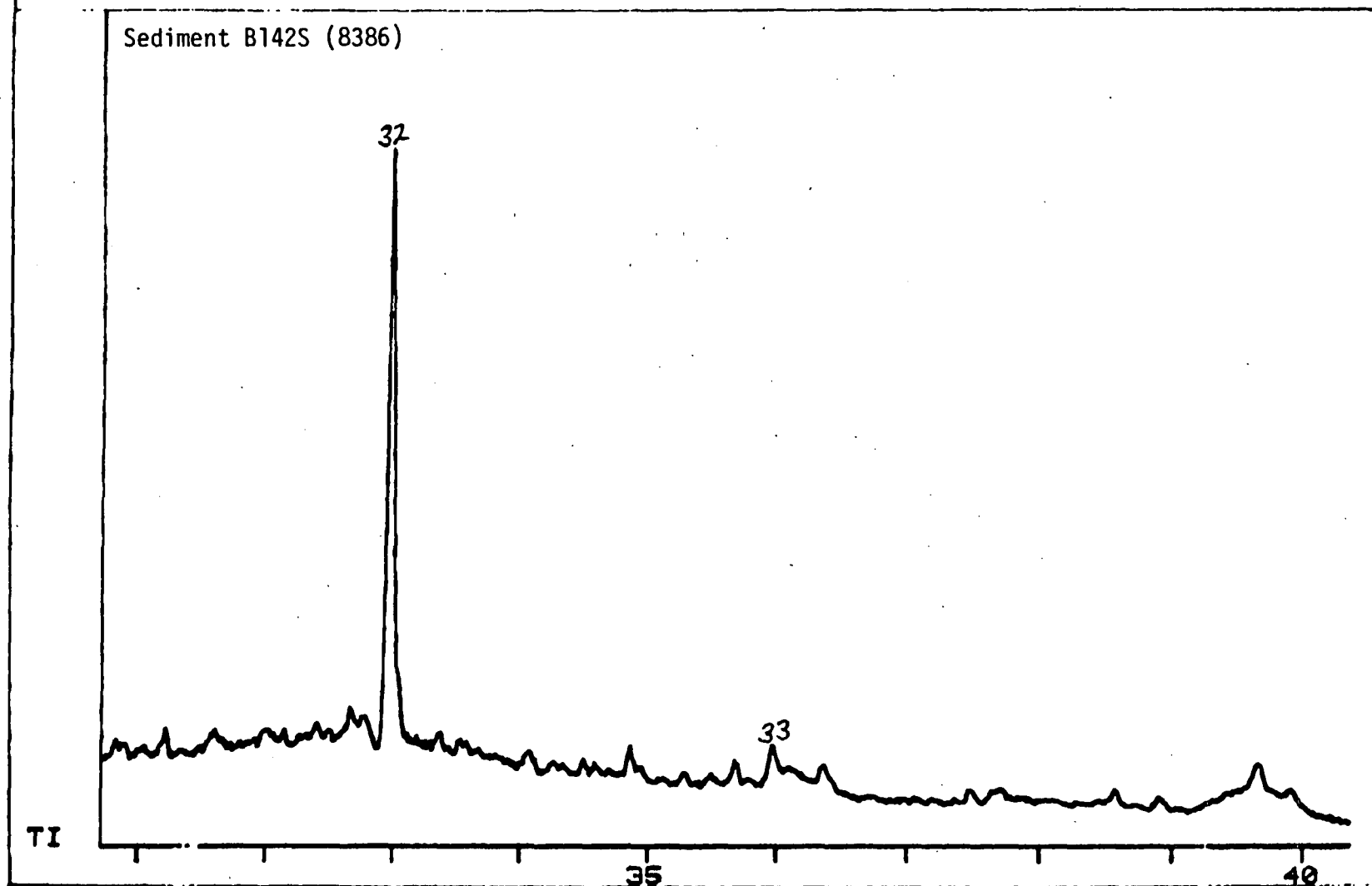


Figure I-10 (continued)

I-41

** BATCH PROCESSOR RECONSTRUCT **
1 UL 150/150 D10 + 8406-SED 9/16/81 BMH
50(4)-280(8) BTL#26 D13454

FRN 13454
1ST SC/PG: 1
X= .25 Y= 1.00

Sediment A101 (8406)

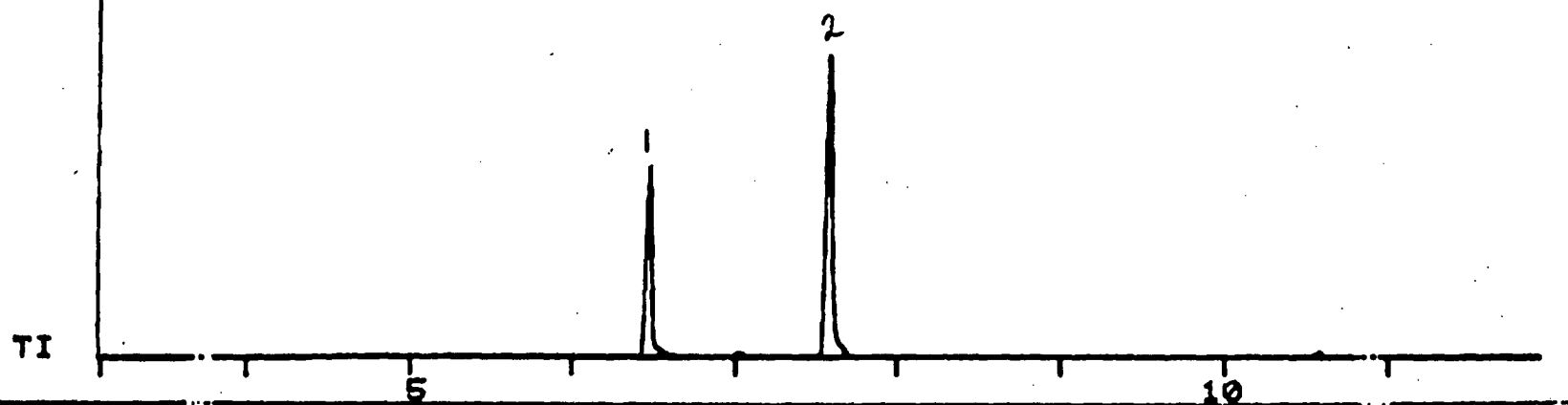


Figure I-11. Chromatogram from the capillary GC/MS analysis of sediment sample A101.

** BATCH PROCESSOR RECONSTRUCT **

FRN 13454

1 UL 150/150 D10 + 8406-SED 9/16/81 BMH
50(4)-280(8) BTL#26

D13454

1ST SC/PG: 933
X= .25 Y= 1.00

Sediment A101 (8406)

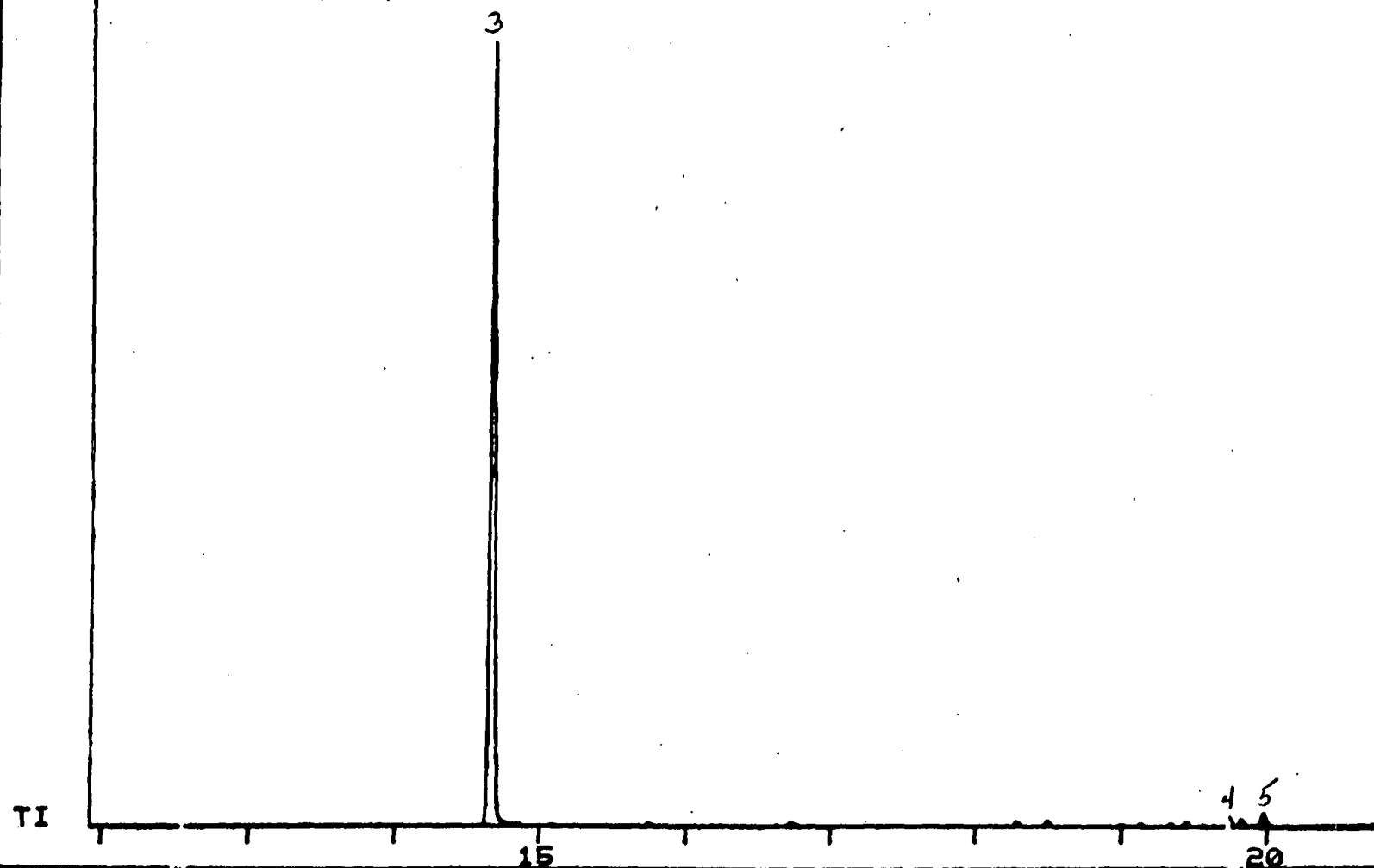


Figure I-11 (continued)

I-43

** BATCH PROCESSOR RECONSTRUCT **
1 UL 150/150 D10 + 8406-SED 9/16/81 BMH
50(4)-280(8) BTL#26 D13454

FRN 13454
1ST SC/PG:1865
X= .25 Y= 1.00

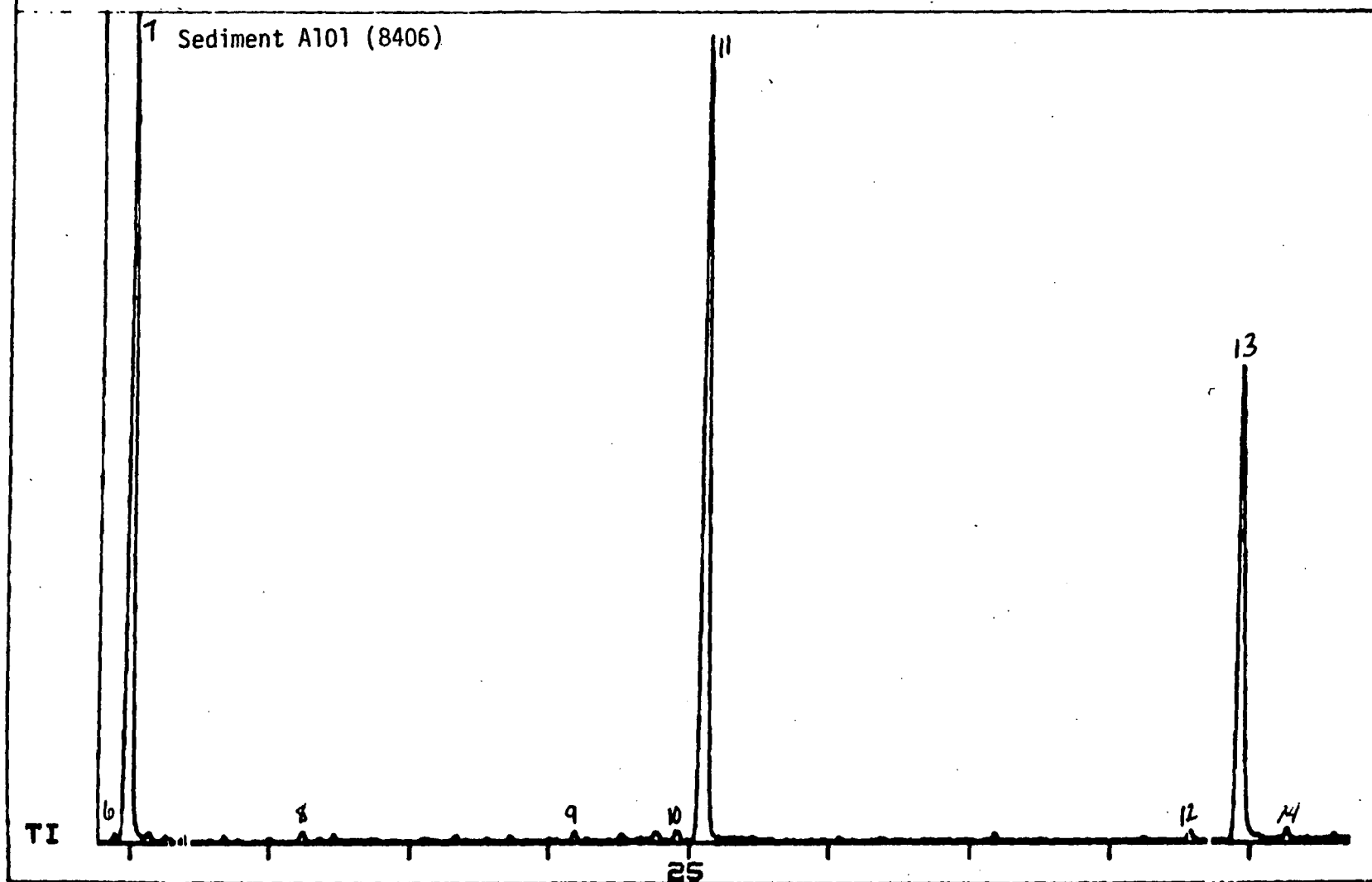


Figure I-11 (continued)

** BATCH PROCESSOR RECONSTRUCT **
1 UL 150/150 D10 + 8406-SED 9/16/81 BMH
50(4)-280(8) BTL#26 D13454

FRN 13454
1ST SC/PG:2797
X= .25 Y= 1.00

Sediment A101 (8406)

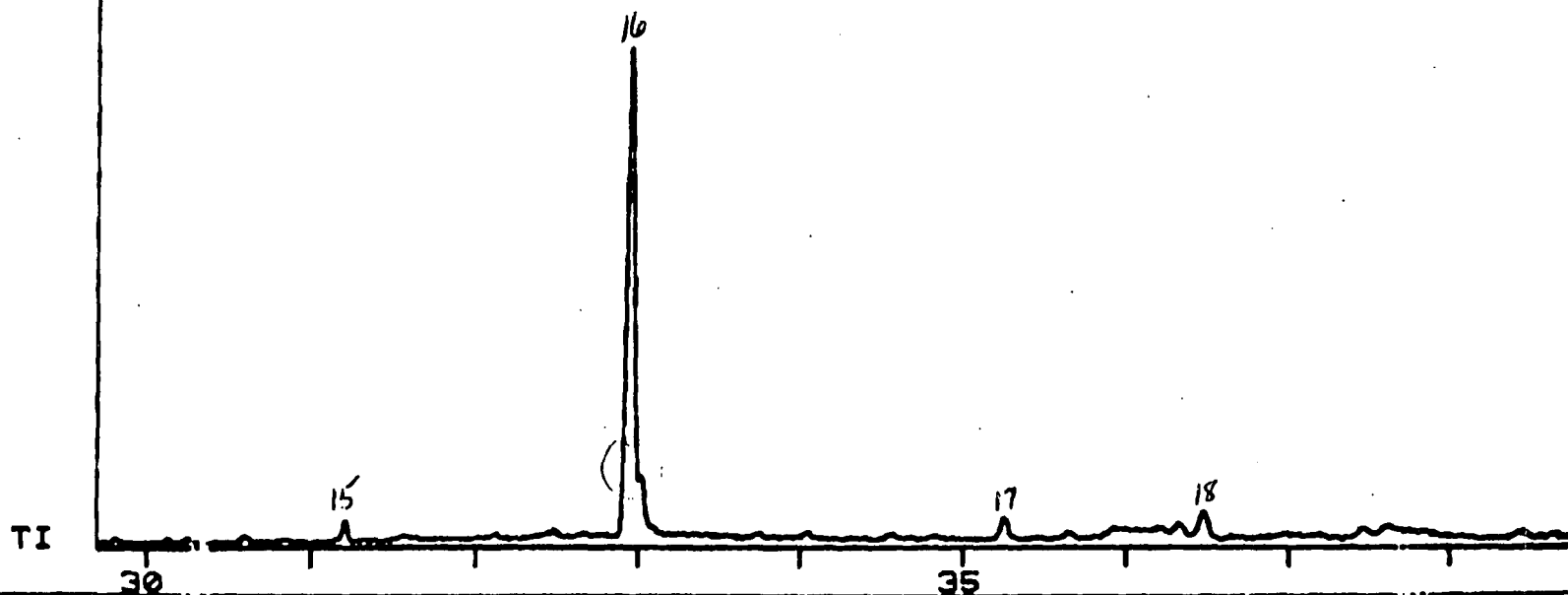


Figure I-11 (continued)

** BATCH PROCESSOR RECONSTRUCT **
1.00 UL 150/150 D10 + 8401-SED 9/16/81 BMH
50(4)-280(8) BTL#21 D13449

FRN 13449
1ST SC/PG: 1
X= .25 Y= 1.00

Sediment B113D (8401)

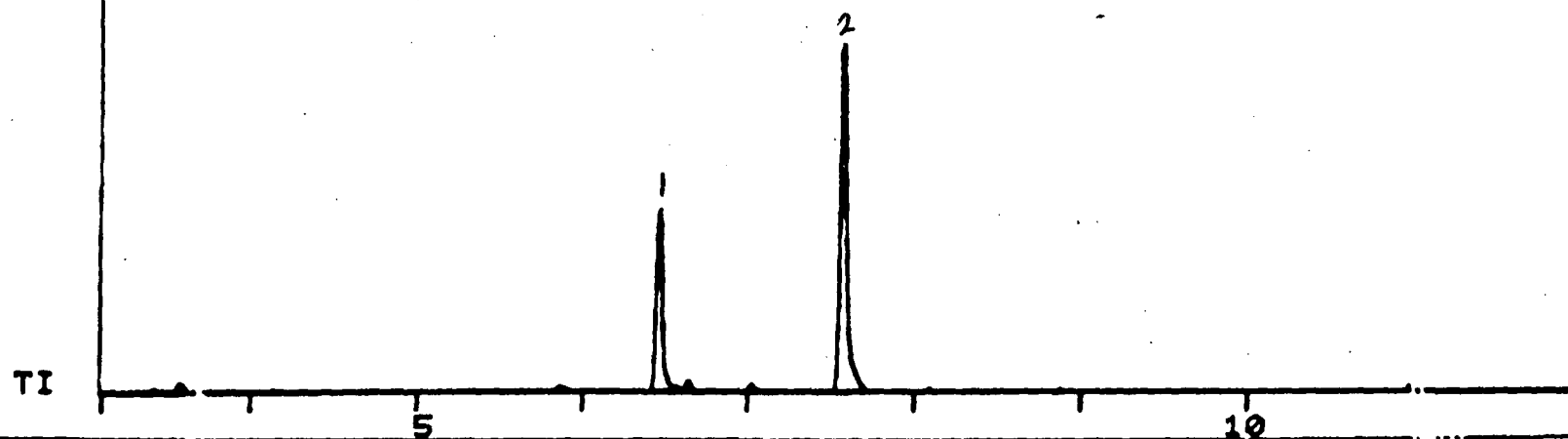


Figure I-12. Chromatogram from the capillary GC/MS analysis of sediment sample B113D.

** BATCH PROCESSOR RECONSTRUCT **

FRN 13449

1 UL 150/150 D10 + 8401-SED 9/16/81 BMH

1ST SC/PG: 933

50(4)-280(8) BTL#21

D13449

X= .25 Y= 1.00

Sediment B113D (8401)

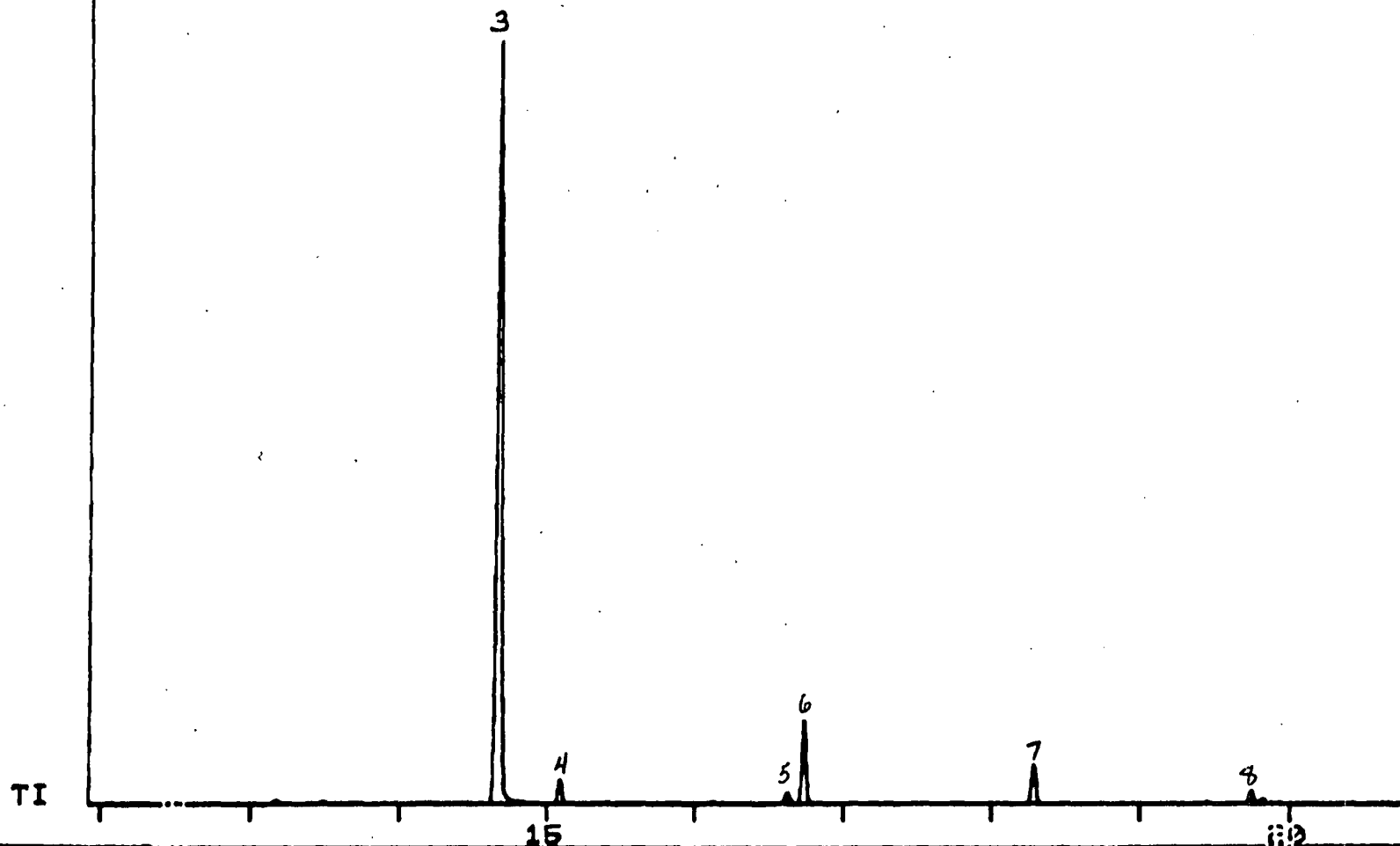


Figure I-12 (continued)

** BATCH PROCESSOR RECONSTRUCT **
1 UL 150/150 D10 + 8401-SED 9/16/81 BMH
50(4)-280(8) BTL#21 D13449

FRN 13449
1ST SC/PG:1865
X= .25 Y= 1.00

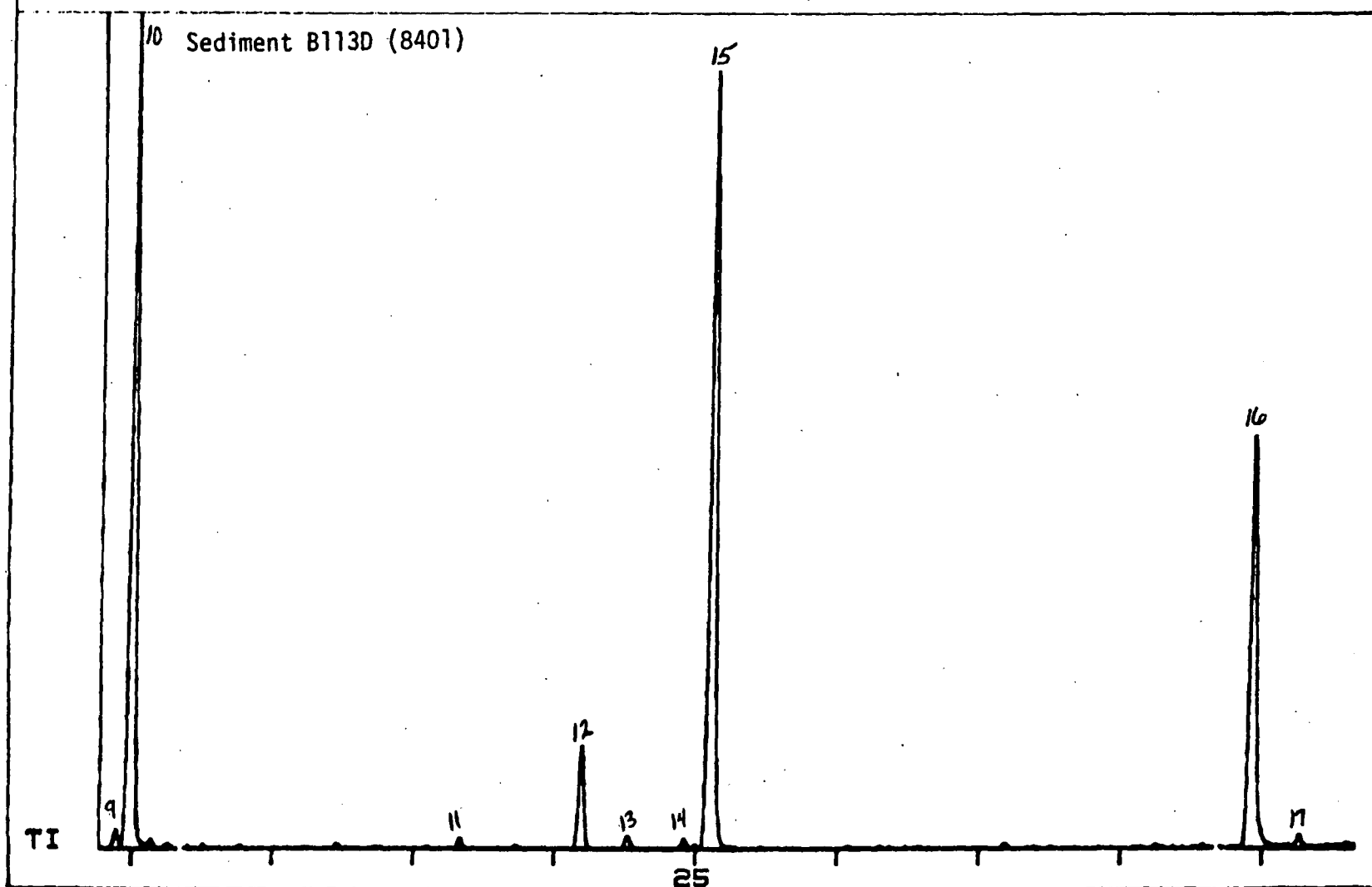


Figure I-12 (continued)

** BATCH PROCESSOR RECONSTRUCT **

FRN 13449

1 UL 150/150 D10 + 8401-SED 9/16/81 BMH

1ST SC/PG:2797

50(4)-280(S) BTL#21

D13449

X= .25 Y= 1.00

Sediment B113D (8401)

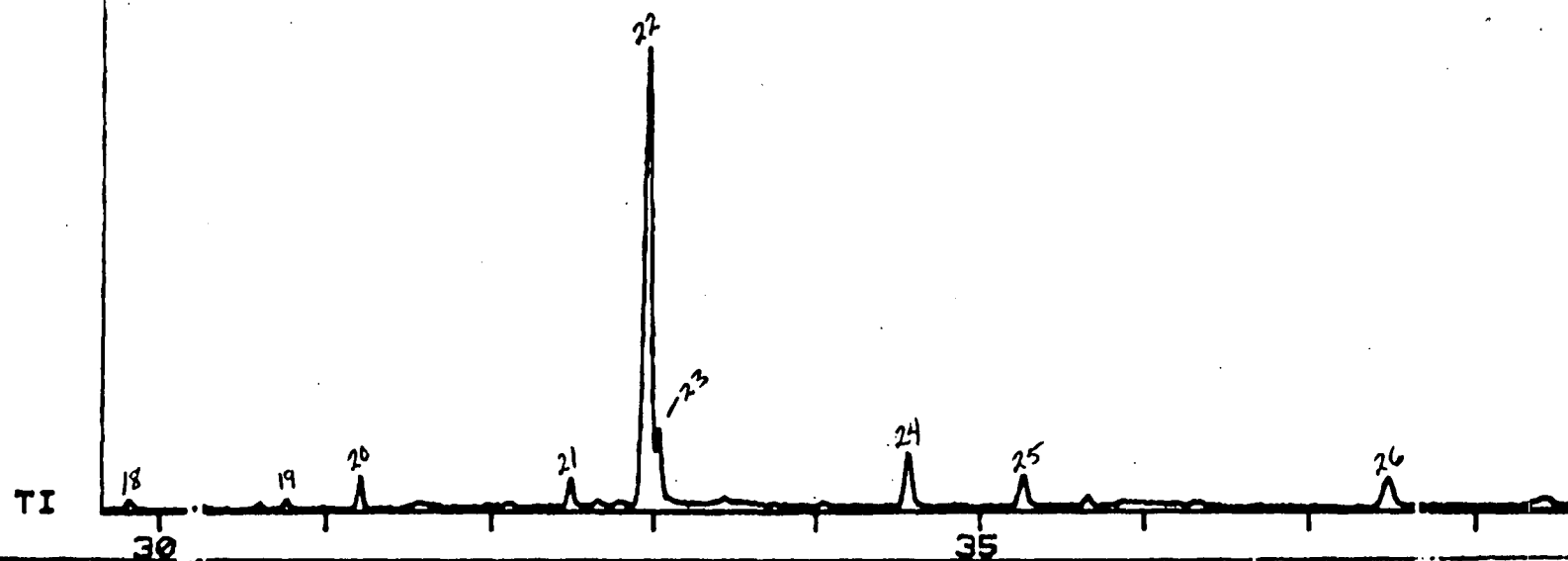


Figure I-12 (continued)

** BATCH PROCESSOR RECONSTRUCT **
1 UL 150/150 D10 + 8402-SED 9/16/81 BMH
50(4)-280(8) BTL#22 D13450

FRN 13450
1ST SC/PG: 1
X= .25 Y= 1.00

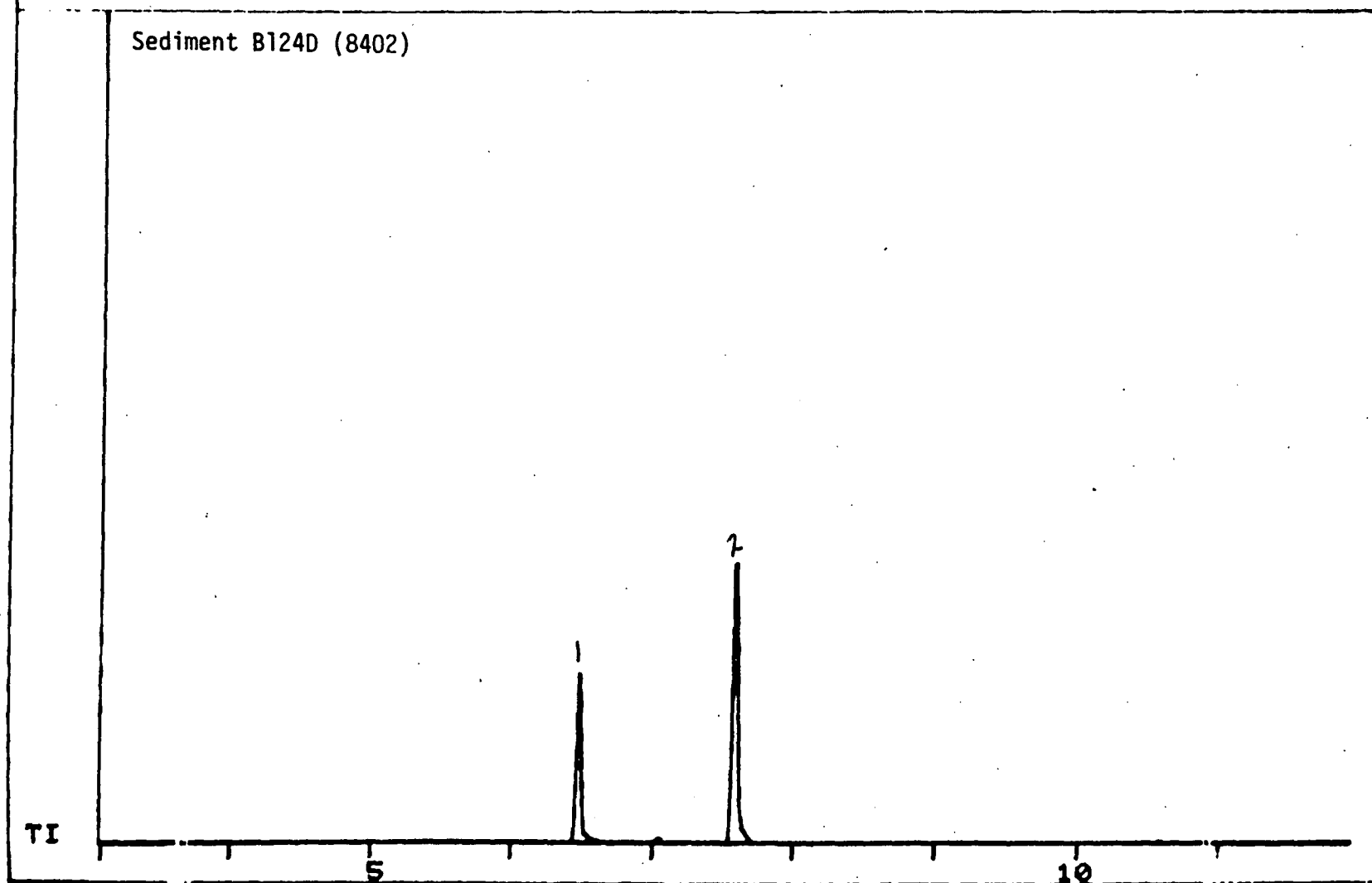


Figure I-13. Chromatogram from the capillary GC/MS analysis of sediment sample B124D.

** BATCH PROCESSOR RECONSTRUCT **

FRN 13450

1 UL 150/150 D10 + 8402-SED 9/16/81 BMH

1ST SC/PG: 933

50(4)-280(8) BTL#22

D13450

X= .25 Y= 1.00

Sediment B124D (8402)

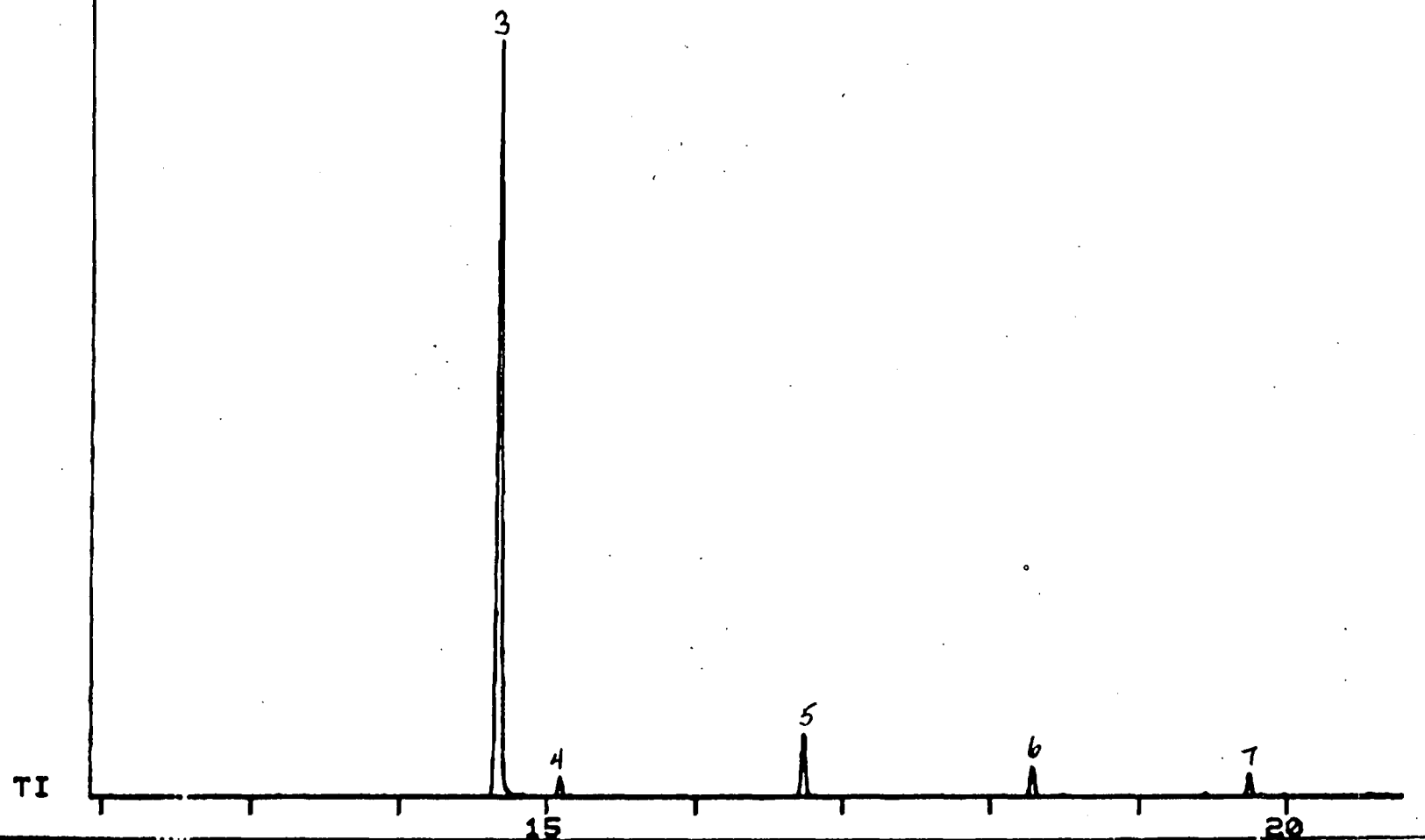


Figure I-13 (continued)

** BATCH PROCESSOR RECONSTRUCT **
1 UL 150/150 D10 + 8402-SED 9/16/81 BMH
50(4)-280(8) BTL#22 D13450

FRN 13450
1ST SC/PG:1865
X= .25 Y= 1.00

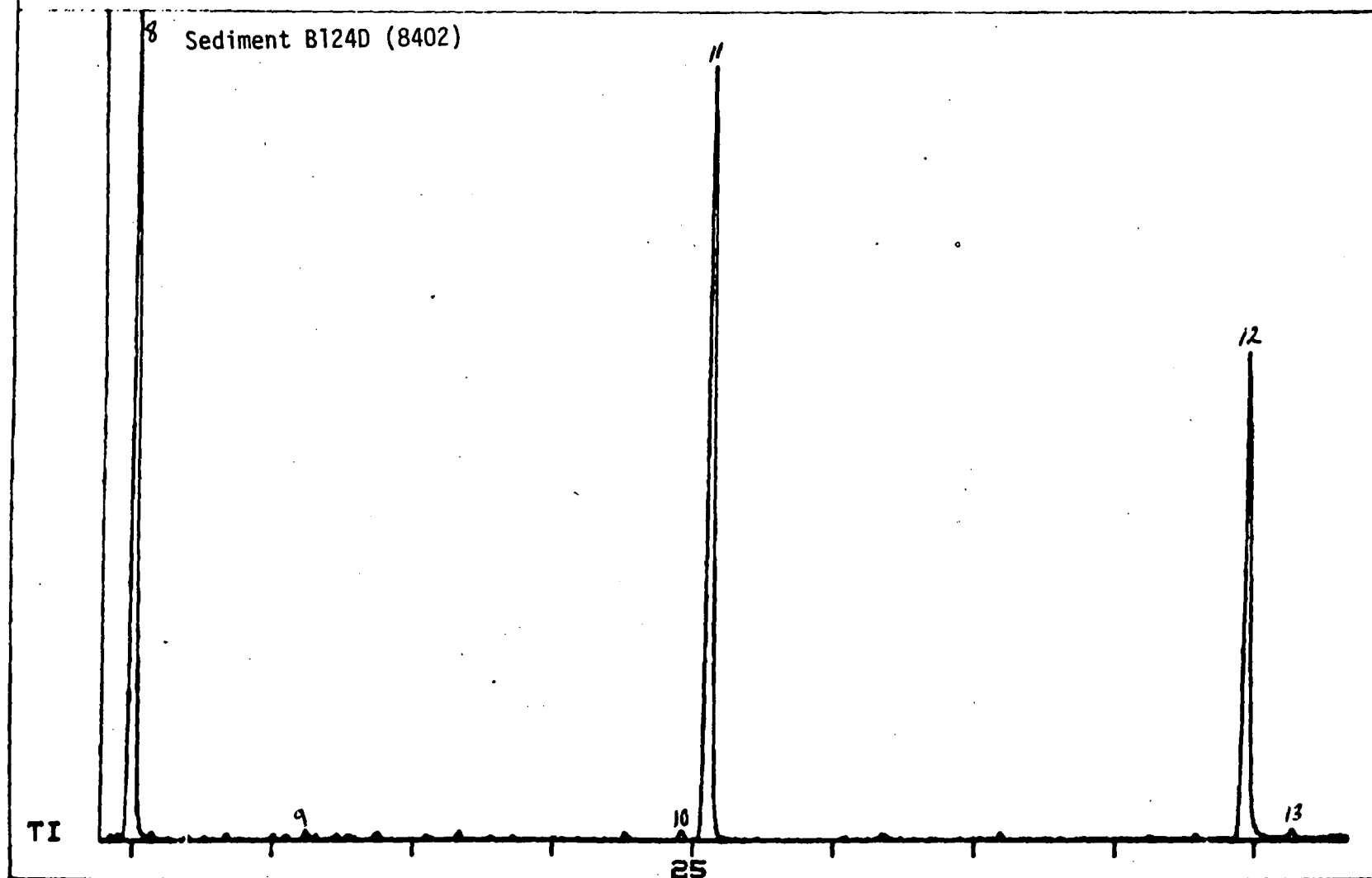


Figure I-13 (continued)

** BATCH PROCESSOR RECONSTRUCT **
1 UL 150/150 D10 + 8402-SED 9/16/81 BMH
50(4)-280(8) BTL#22 D13450

FFN 13450
1ST SC/PG:2797
X= .25 Y= 1.00

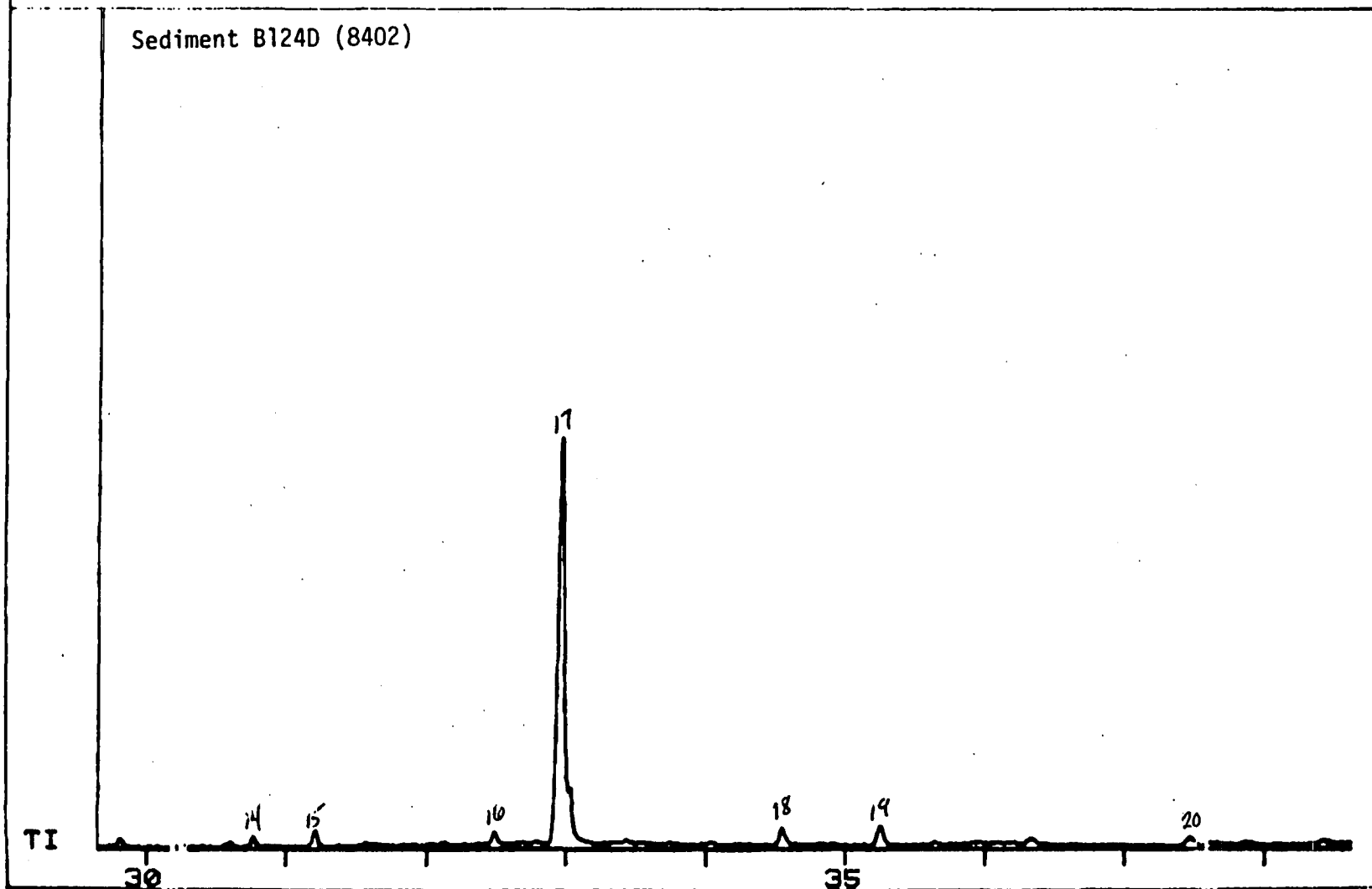


Figure I-13 (continued)

*** BATCH PROCESSOR RECONSTRUCT ***

FRI 13471

1 UL 150/150 D10 + 8395-SED 9/17/81 BMH
50(4)-280(8) BTL#11 D13471

1ST SC/PG: 1
X= .25 Y= 1.00

Sediment C151D (8395)

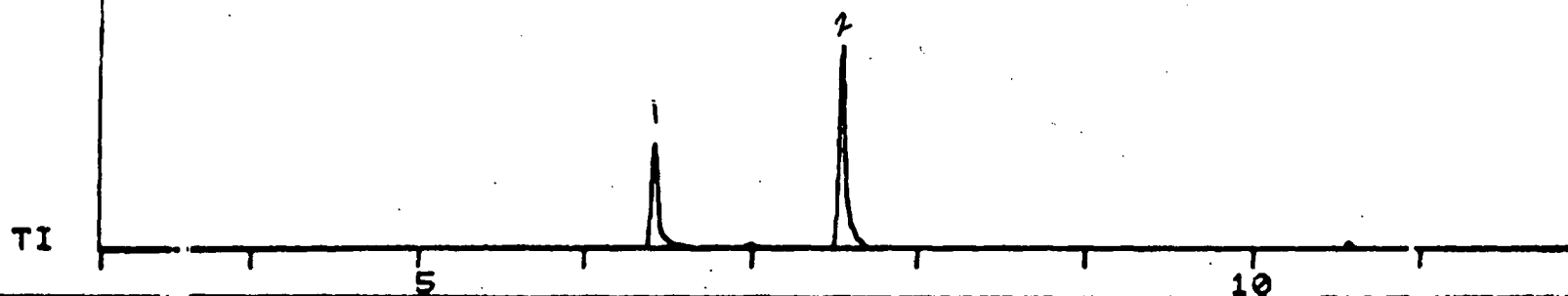


Figure I-14. Chromatogram from the capillary GC/MS analysis of sediment sample C151D.

** BATCH PROCESSOR RECONSTRUCT **

FRI 13471

1 UL 150/150 D10 + 8395-SED 9/17/81 BMH
50(4)-280(8) BTL#11 D13471

1ST SC/PG: 933
X= .25 Y= 1.00

Sediment C151D (8395)

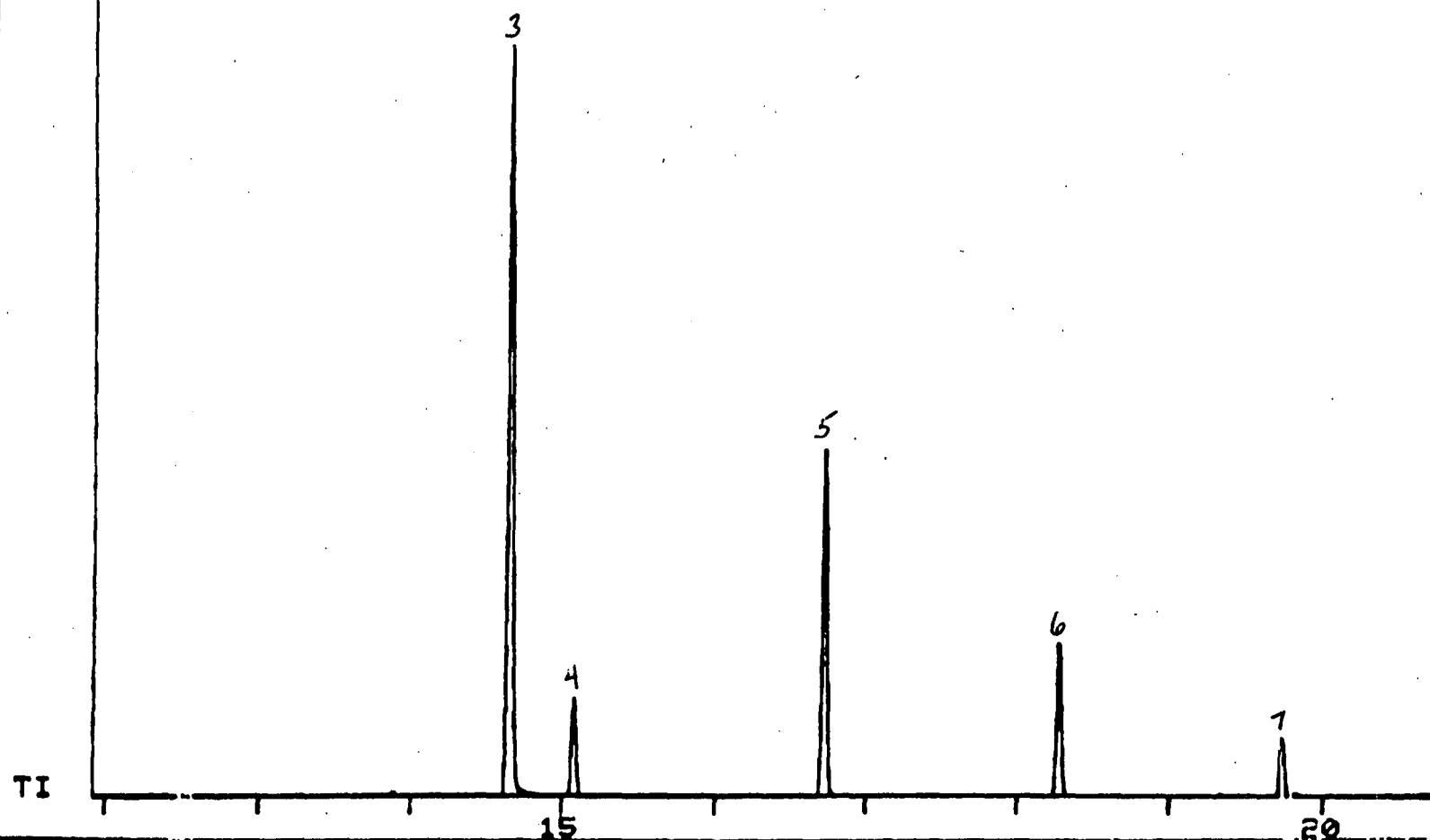


Figure I-14 (continued)

1 UL 150/150 D10 + 8395-SED 9/17/81 BMH
50(4)-280(8) BTL#11

FRN 13471
1ST SC/PG:1865
X= .25 Y= 1.00

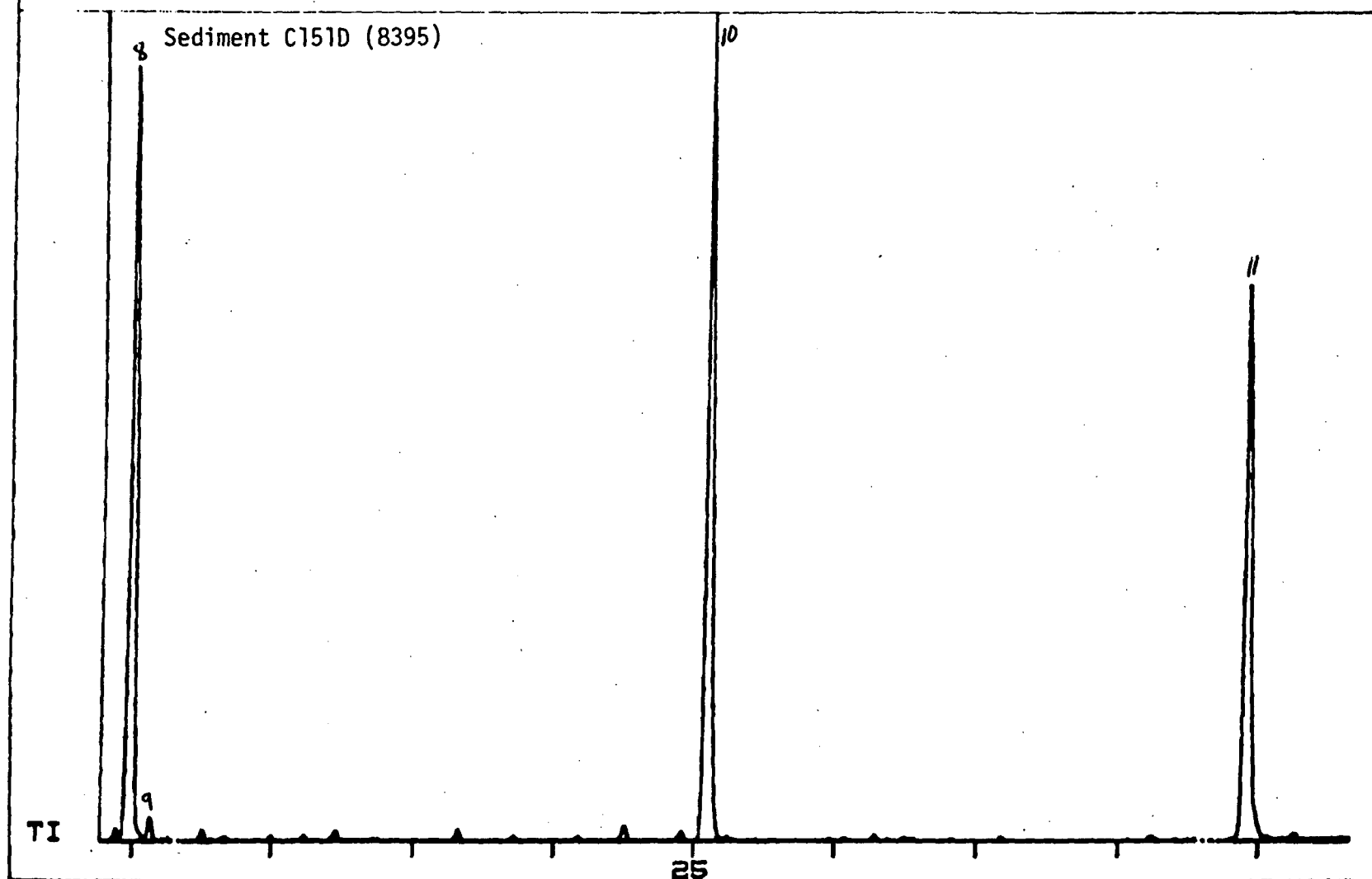


Figure I-14 (continued)

*** BATCH PROCESSOR RECONSTRUCT ***

FRN 13471

1 UL 150/150 D10 + 8395-SED 9/17/81 BMH

1ST SC/PG:2797

50(4)-280(8) BTL#11

D13471

X= .25 Y= 1.00

Sediment C151D (8395)

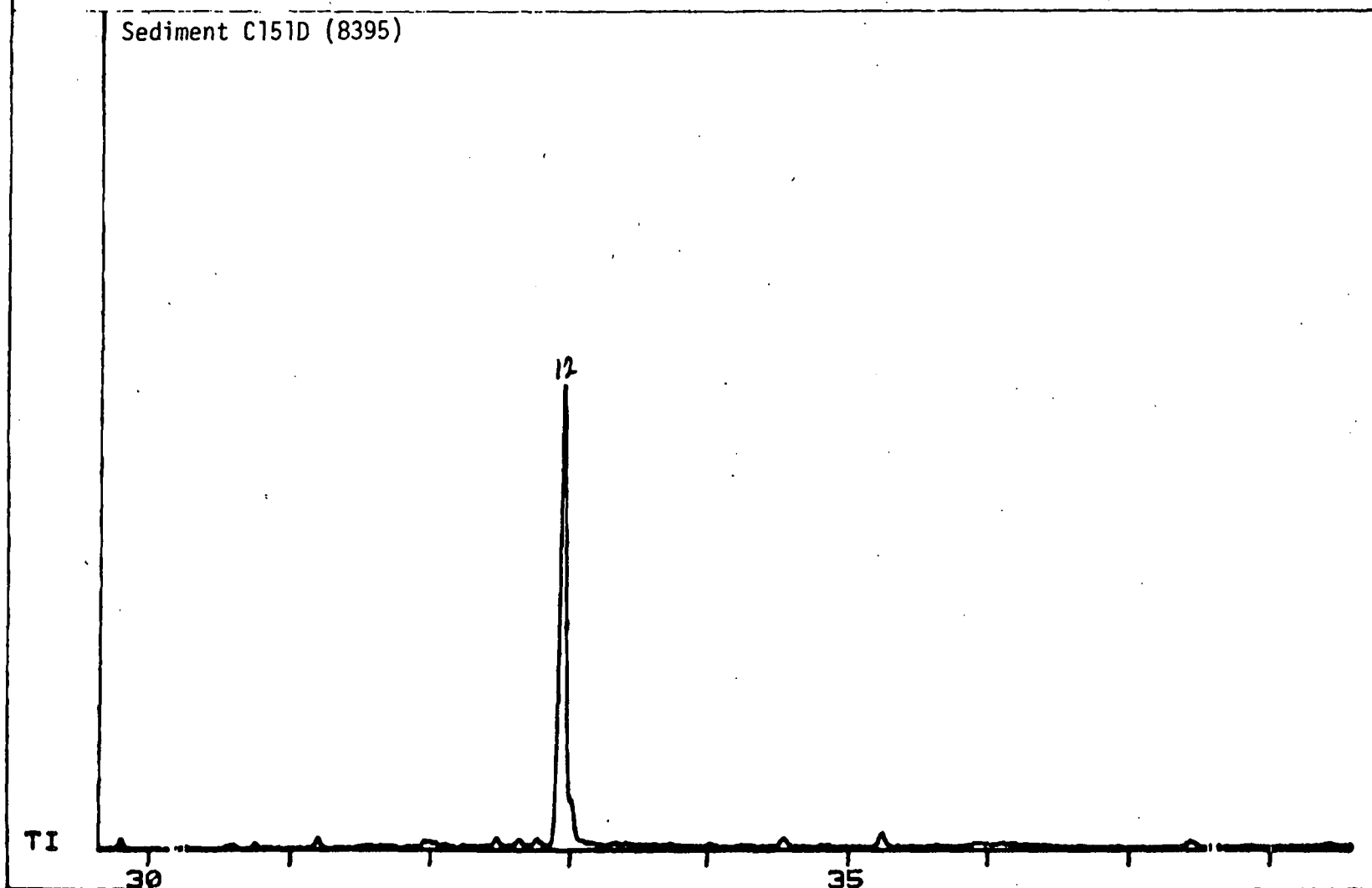


Figure I-14 (continued)

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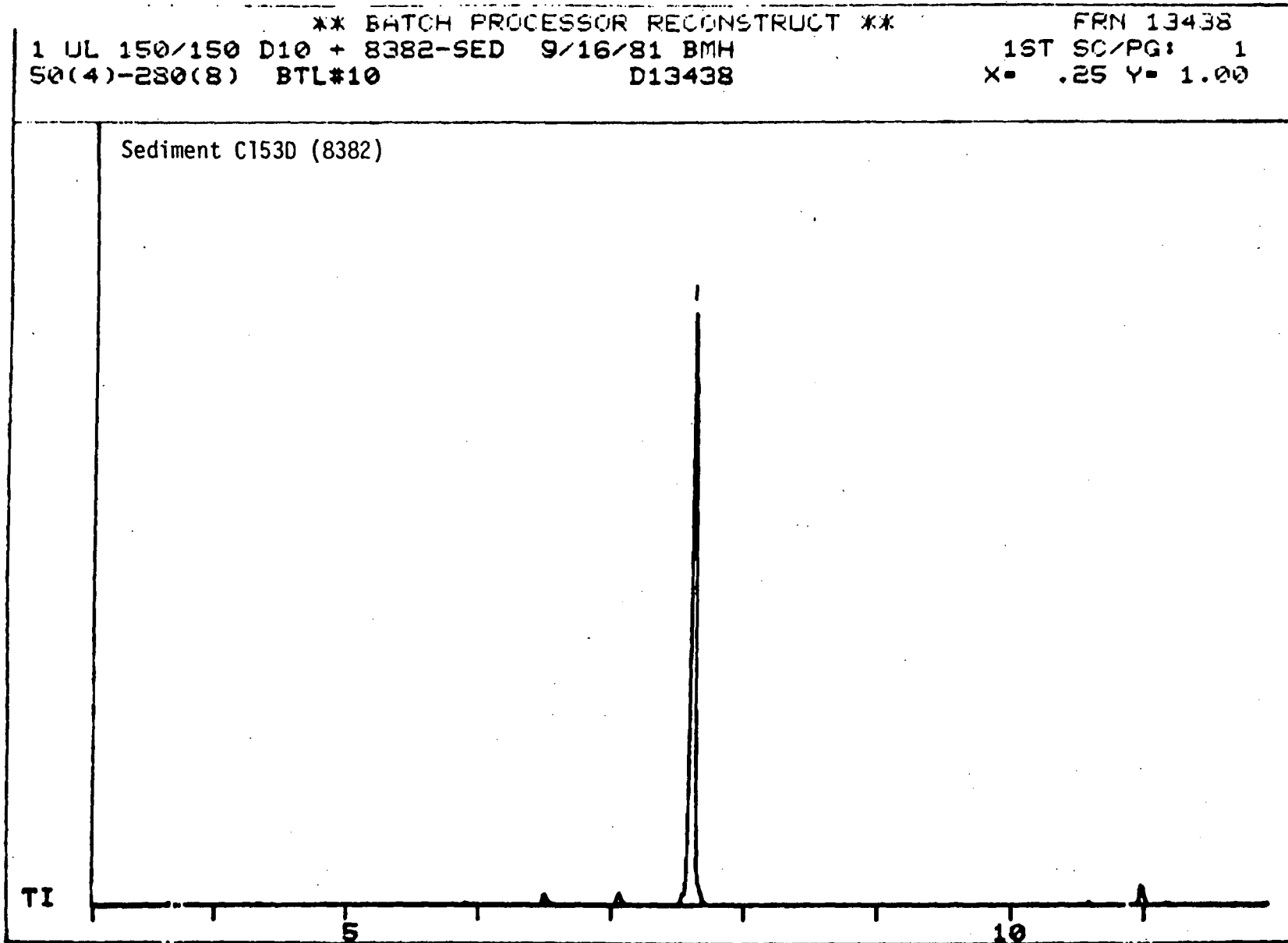


Figure I-15. Chromatogram from the capillary GC/MS analysis of sediment sample C153D.

** BATCH PROCESSOR RECONSTRUCT **
1 UL 150/150 D10 + 8382-SED 9/16/81 BMH
50(4)-280(8) BTL#10 D13438

FRN 13438
1ST SC/PQ: 933
X= .25 Y= 1.00

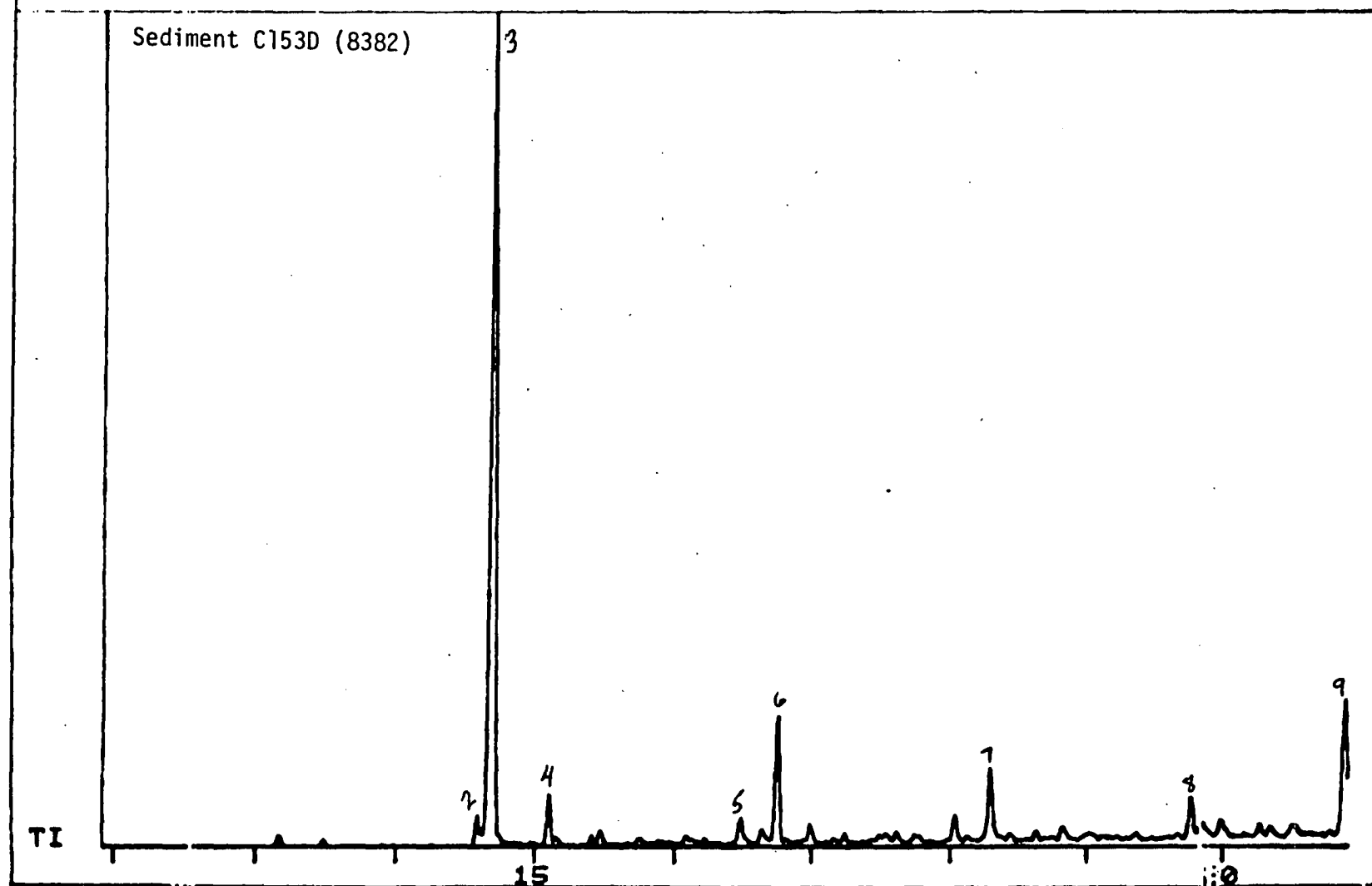


Figure I-15 (continued)

** BATCH PROCESSOR RECONSTRUCT **
1 UL 150/150 D10 + 8382-SED 9/16/81 BMH
50(4)-280(8) BTL#10 D13438

FRN 13438
1ST SC/PG:1865
X= .25 Y= 1.00

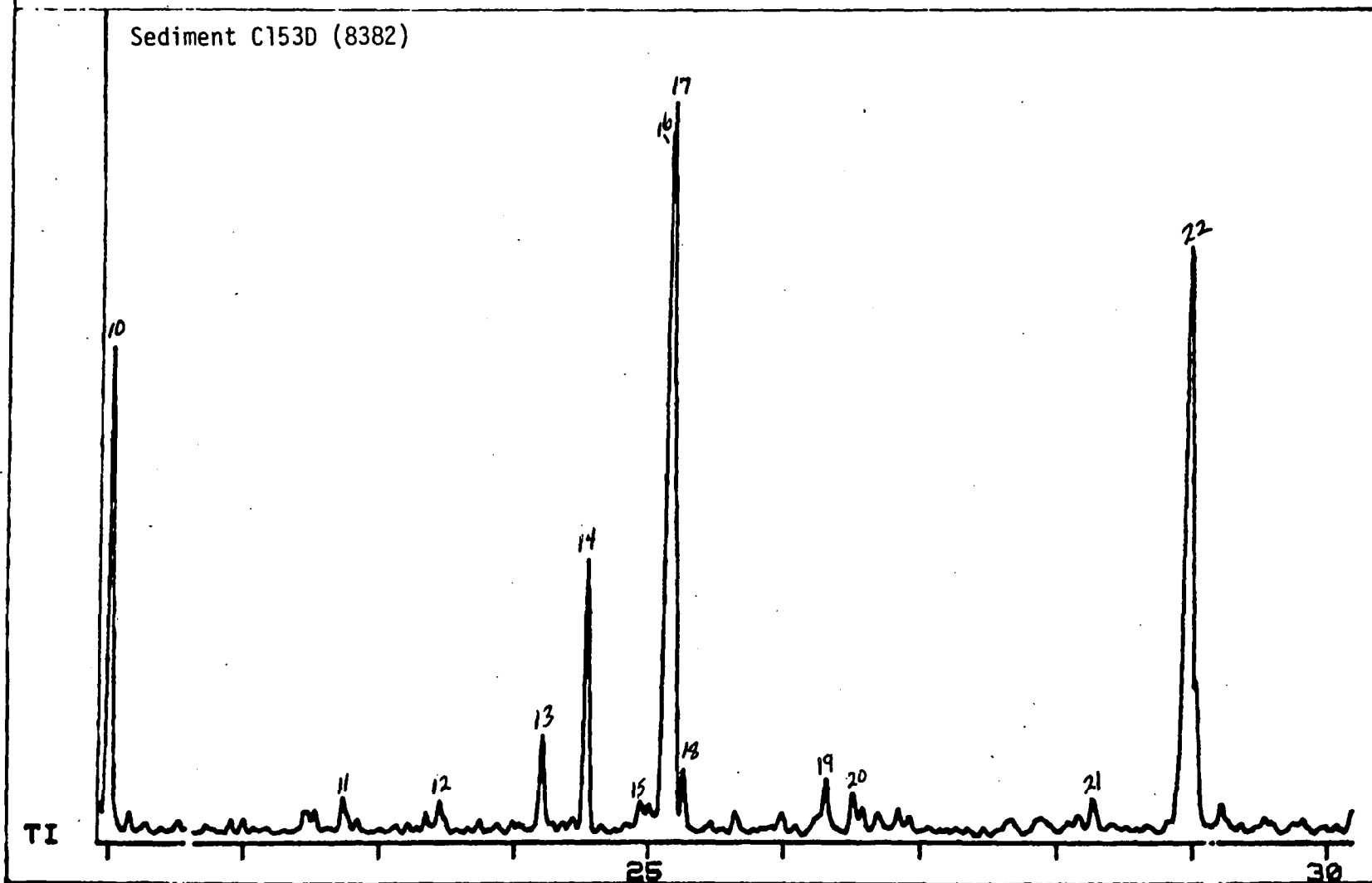


Figure I-15 (continued)

** BATCH PROCESSOR RECONSTRUCT **
1 UL 150/150 D10 + 8382-SED 9/16/81 BMH
50(4)-280(8) BTL#10 D13438

FRN 13438
1ST SC/PG:2797
X= .25 Y= 1.00

Sediment C153D (8382)

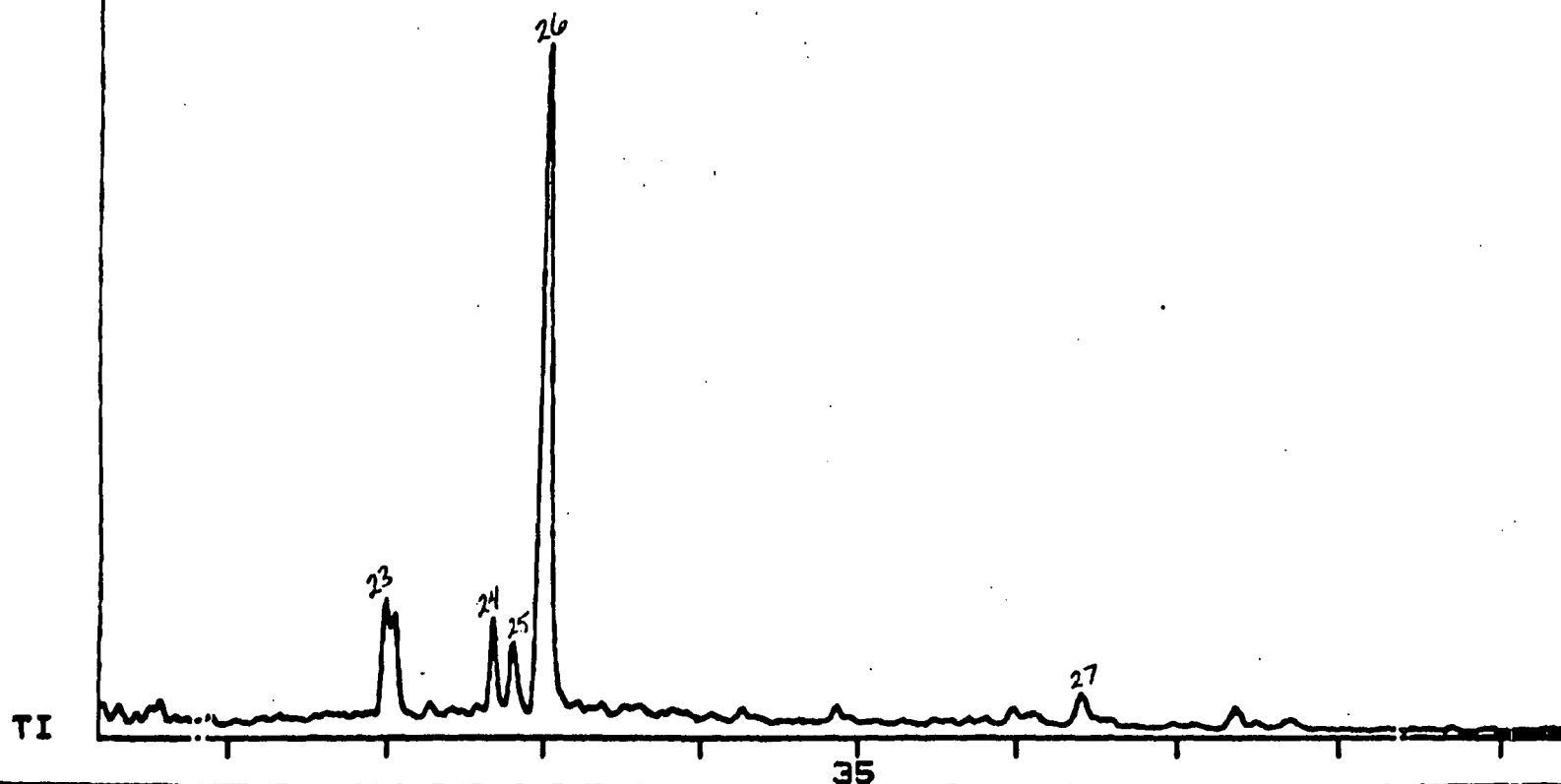


Figure I-15 (continued)

** BATCH PROCESSOR RECONSTRUCT **
1 UL 150/150 D10 + 8381-SED (DIL 1:2) 9/16/81 BMH
50(4)-280(8) BTL#9 D13437

FRN 13437
1ST SC/PG: 1
X= .25 Y= 1.00

Sediment C154D (8381) DIL 1:2

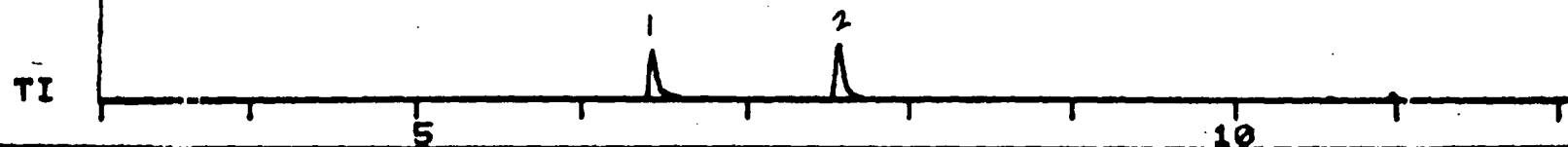


Figure I-16. Chromatogram from the capillary GC/MS analysis of sediment sample C154D.

** BATCH PROCESSOR RECONSTRUCT **
1 UL 150/150 D10 + 8381-SED (DIL 1:2) 9/16/81 BMH
50(4)-280(8) BTL#9 D13437

FRN 13437
1ST SC/PG: 933
X= .25 Y= 1.00

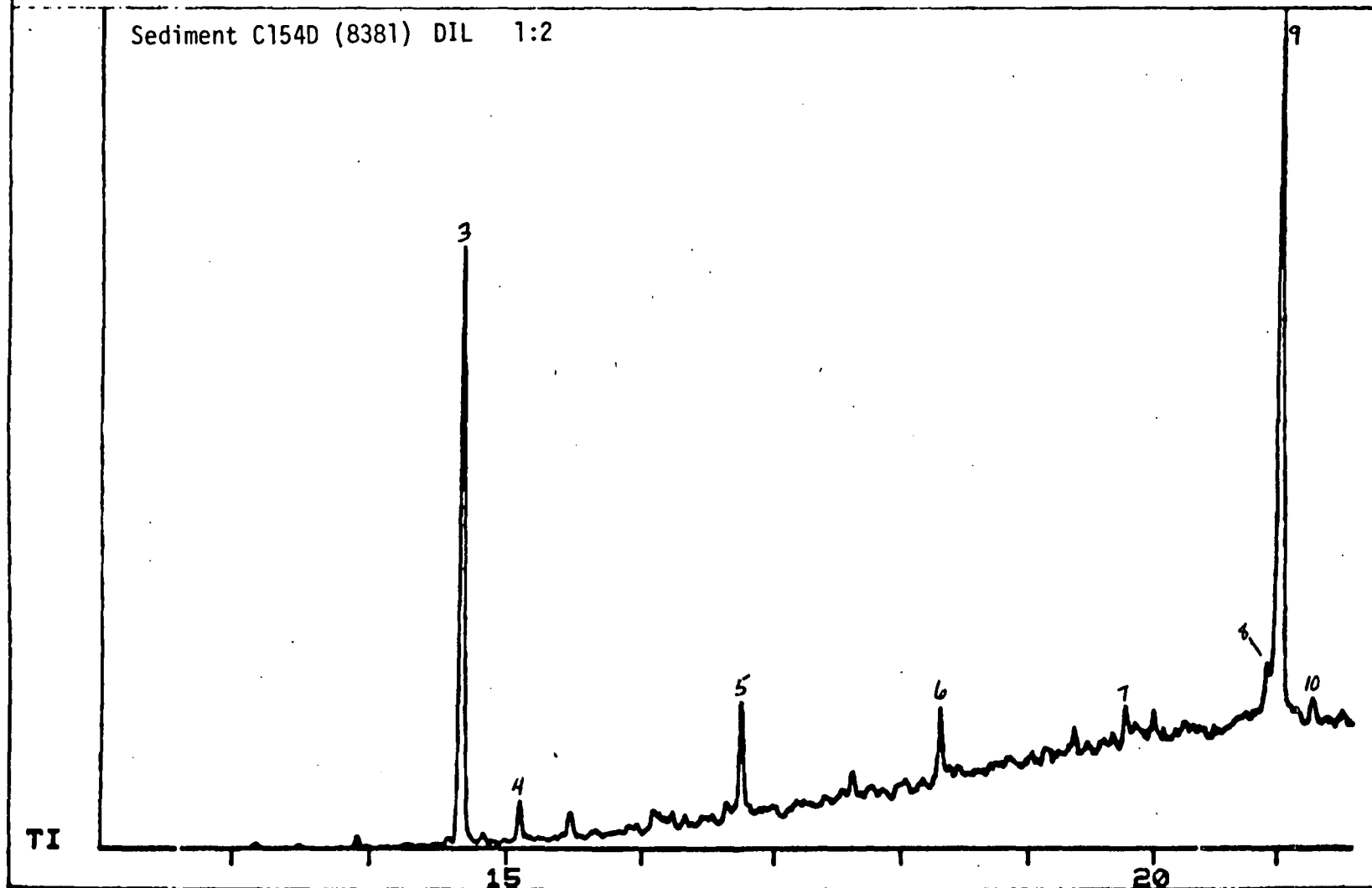


Figure I-16 (continued)

** BATCH PROCESSOR RECONSTRUCT **
1 UL 150/150 D10 + 8381-SED (DIL 1:2) 9/16/81 BMH
50(4)-280(8) BTL#9 D13437

FRN 13437
1ST SC/PG:1865
X= .25 Y= 1.00

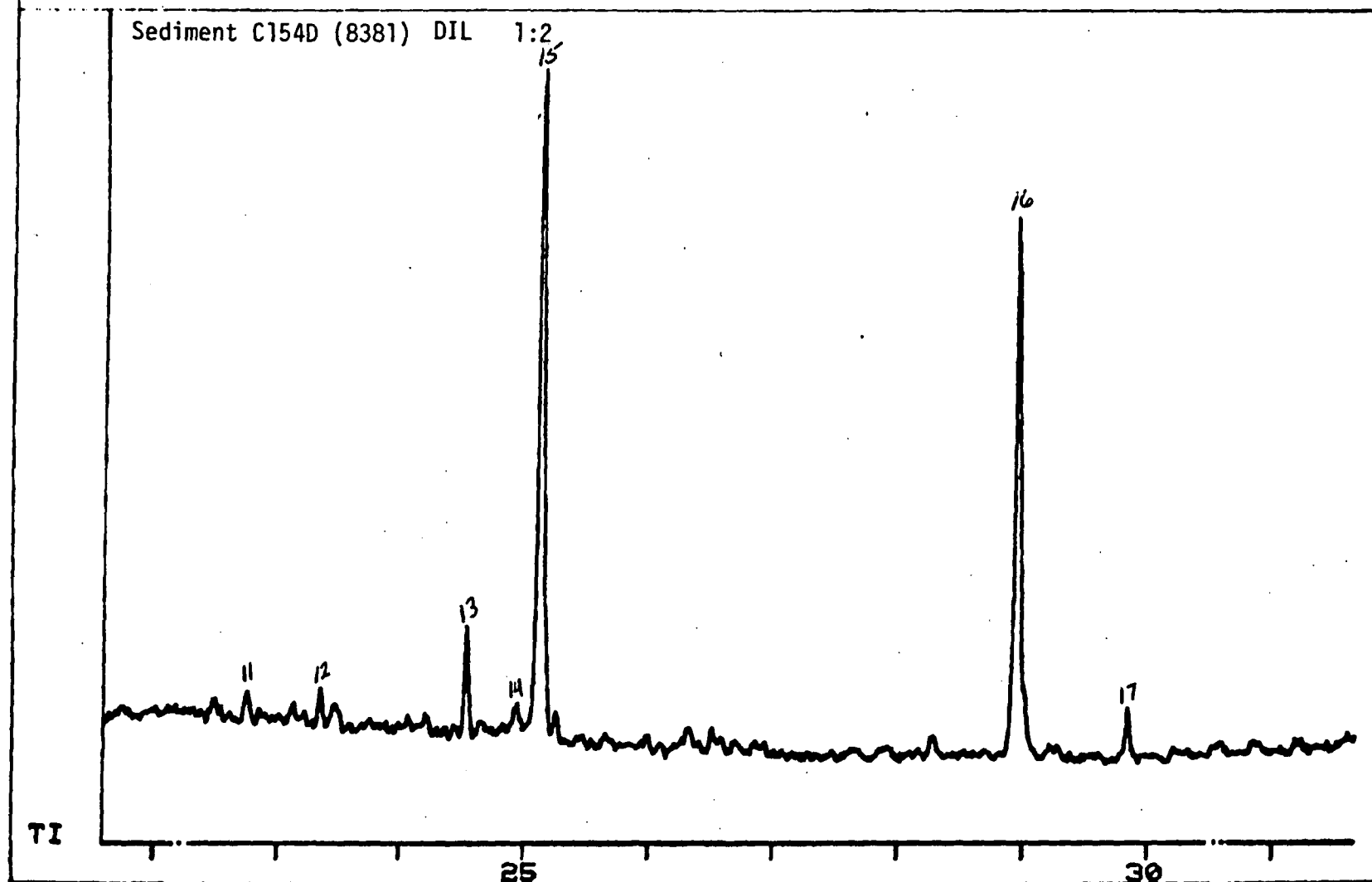


Figure I-16 (continued)

** BATCH PROCESSOR RECONSTRUCT **
1 UL 150/150 D10 + 8381-SED (DIL 1:2) 9/16/81 BMH
50(4)-280(8) BTL#9 D13437

FRN 13437
1ST SC/PG:2797
X= .25 Y= 1.00

Sediment C154D (8381) DIL 1:2

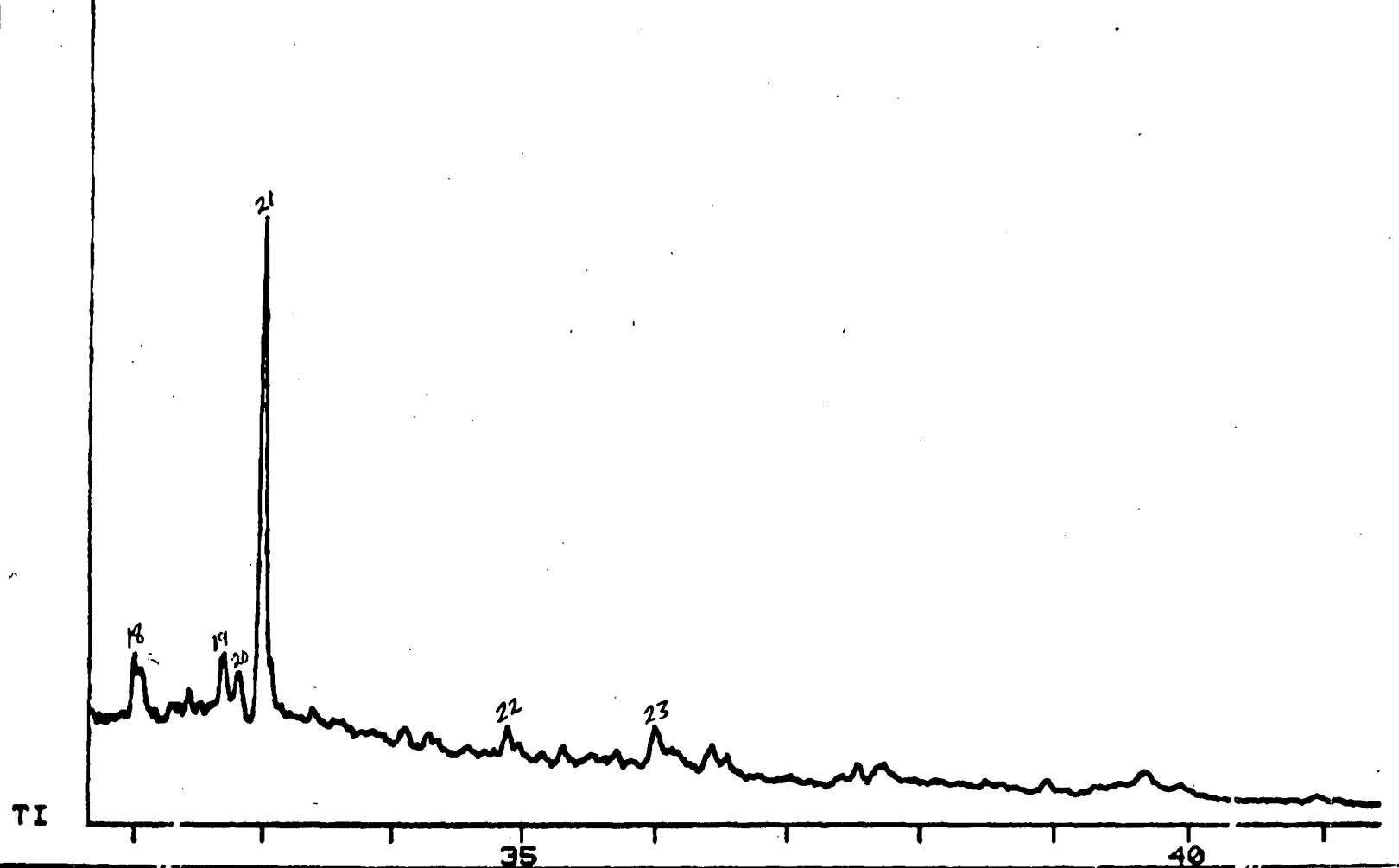


Figure I-16 (continued)

1 UL 150/150 D10 + 8394-SED 9/17/81 BMH
50(4)-280(8) BTL#10

** BATCH PROCESSOR RECONSTRUCT **

D13470

FRN 13470

1ST SC/PG: 1

X= .25 Y= 1.00

Sediment C158D (8394)

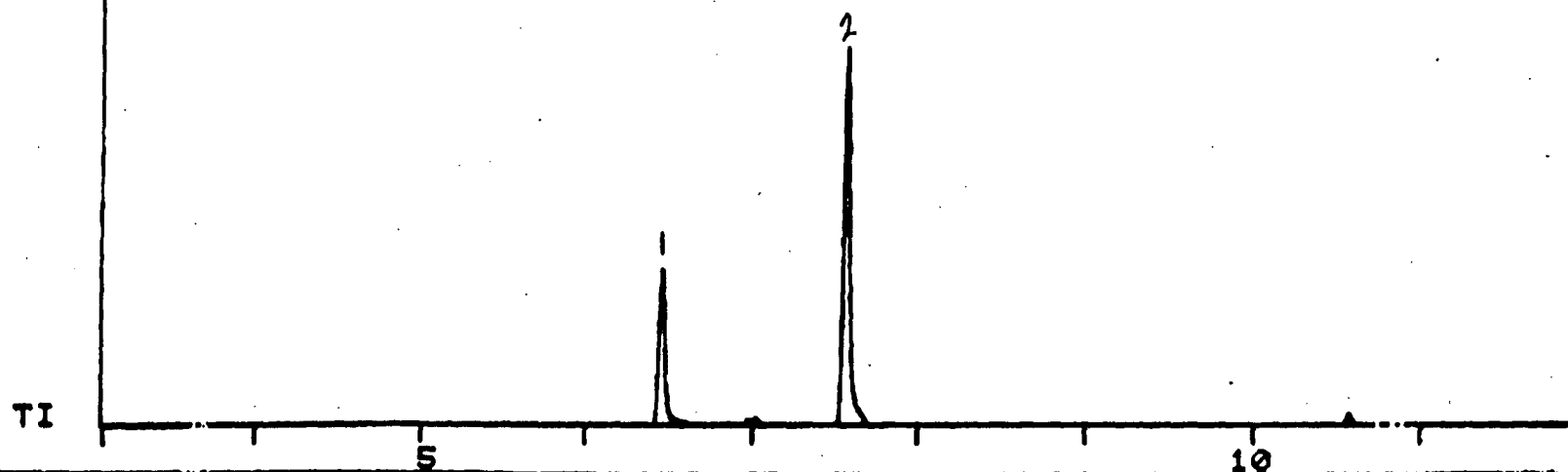


Figure I-17. Chromatogram from the capillary GC/MS analysis of sediment sample C158D.

** BATCH PROCESSOR RECONSTRUCT **
1 UL 150/150 D10 + 8394-SED 9/17/81 BMH
50(4)-280(8) BTL#10 D13470

FRN 13470
1ST SC/PG: 933
X= .25 Y= 1.00

Sediment C158D (8394)

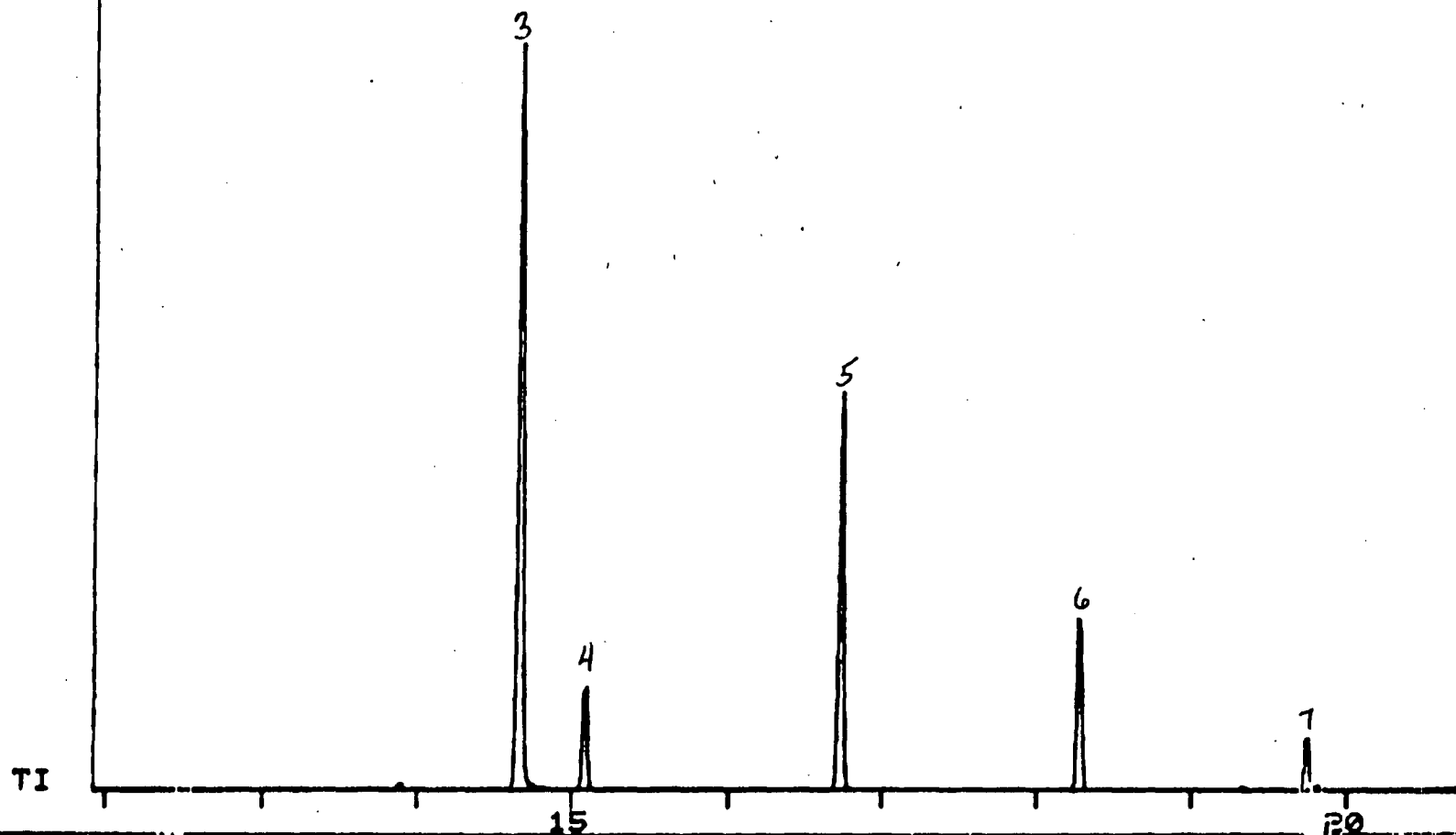


Figure I-17 (continued)

1 UL 150/150 D10 + 8394-SED 9/17/81 BMH
50(4)-280(8) BTL#10

** BATCH PROCESSOR RECONSTRUCT **

D13470

FRN 13470

1ST SC/PG:1865

X= .25 Y= 1.00

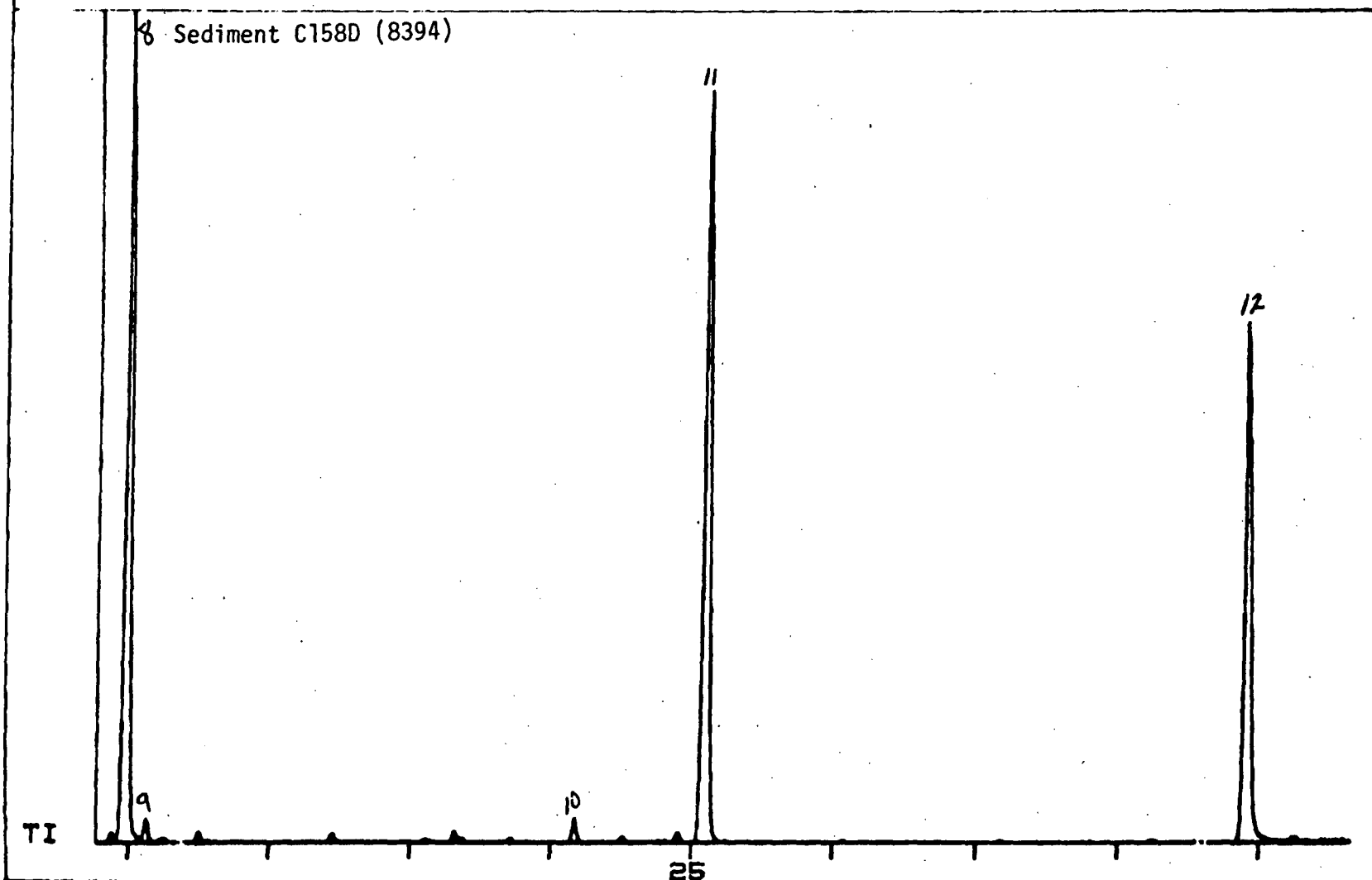


Figure I-17 (continued)

** BATCH PROCESSOR RECONSTRUCT **

FRII 13470

1 UL 150/150 D10 + 8394-SED 9/17/81 BMH
50(4)-280(8) BTL#10 D13470

1ST SC/PG:2797
X= .25 Y= 1.00

Sediment C158D (8394)

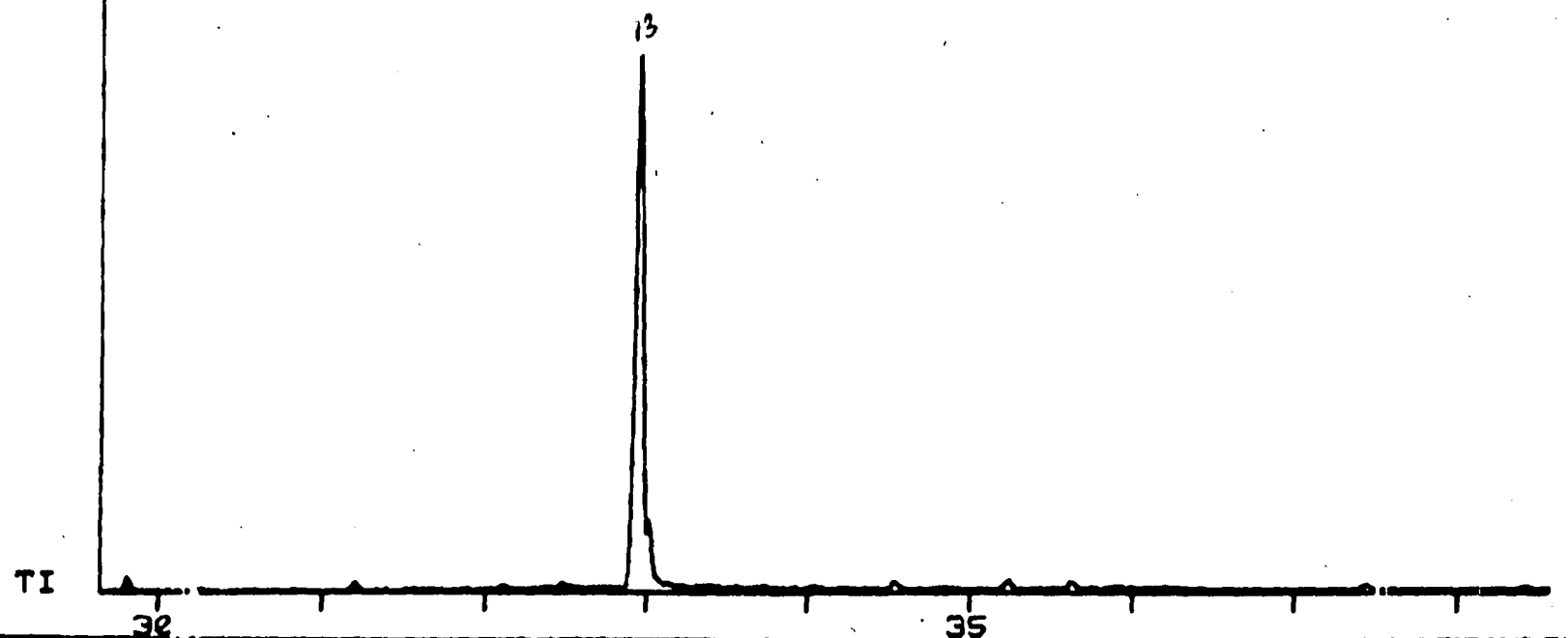


Figure I-17 (continued)

** BATCH PROCESSOR RECONSTRUCT **
1 UL 150/150 D10 + 8383-SED 9/16/81 BMH
50(4)-280(8) BTL#11 D13439

FRN 13439
1ST SC/PG: 1
X= .25 Y= 1.00

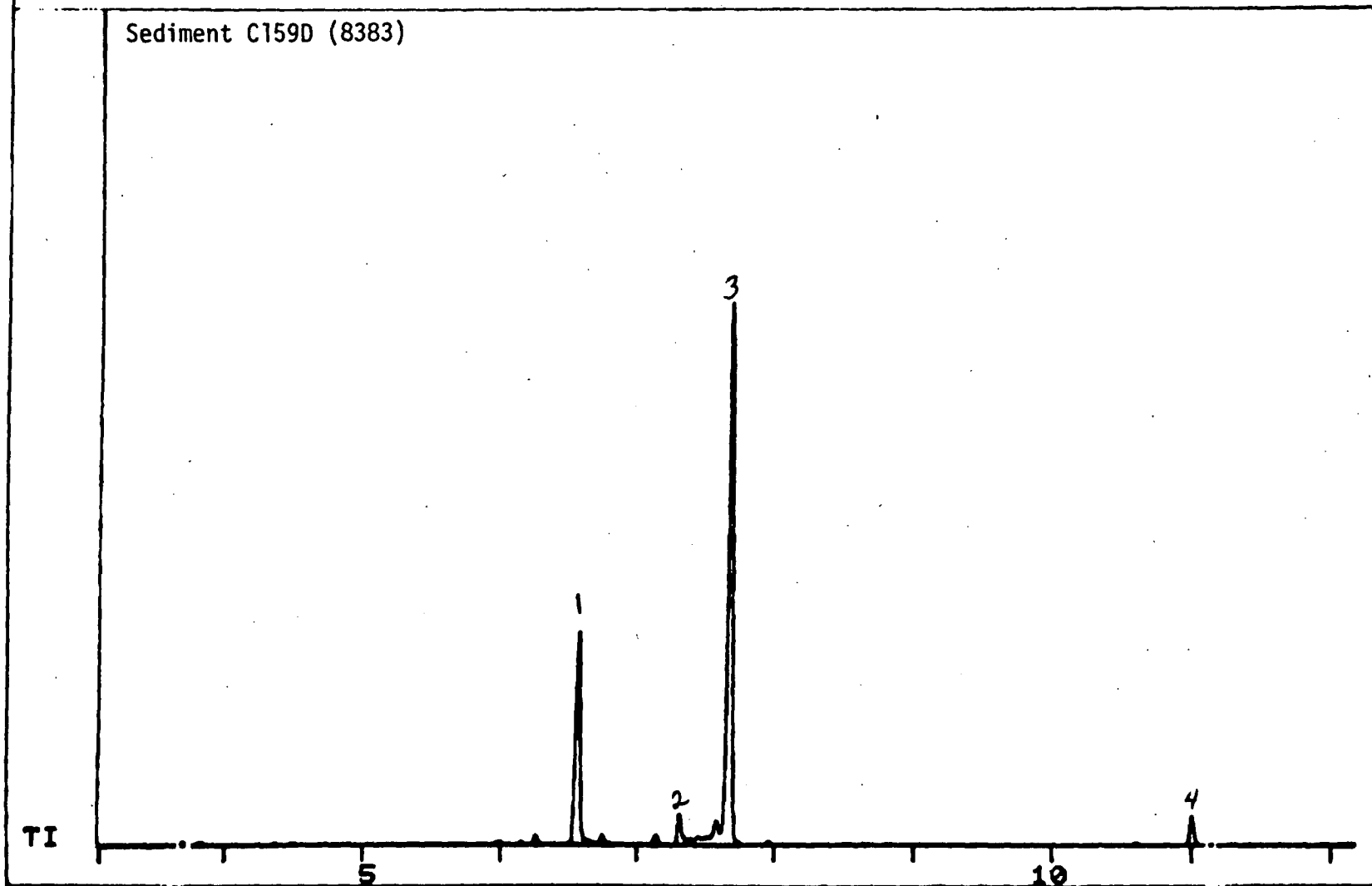


Figure I-18. Chromatogram from the capillary GC/MS analysis of sediment sample C159D.

** BATCH PROCESSOR RECONSTRUCT **
1 UL 150/150 D10 + 8383-SED 9/16/81 BMH
50(4)-280(8) BTL#11 D13439

FRN 13439
1ST SC/PG: 933
X= .25 Y= 1.00

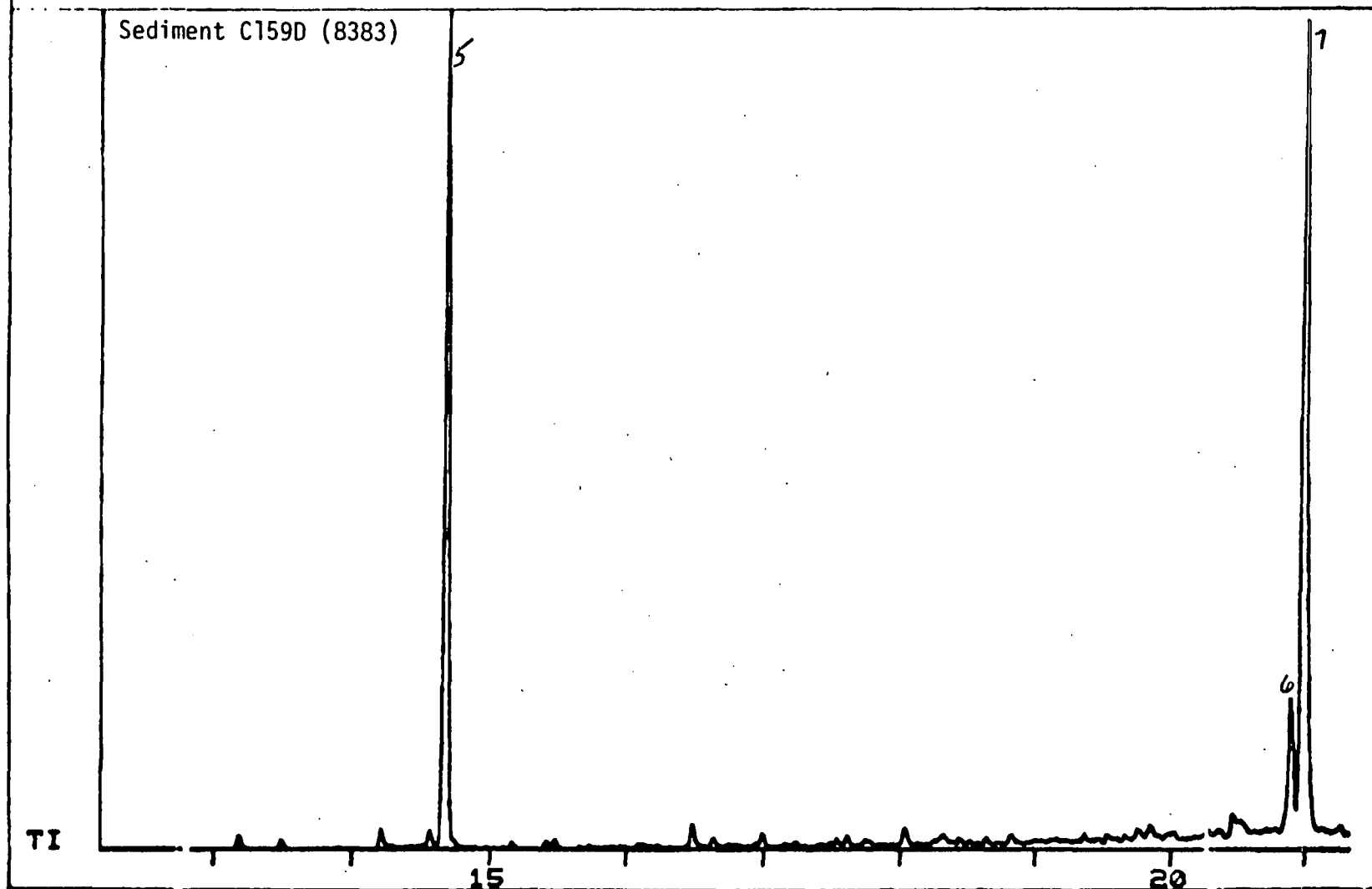


Figure I-18 (continued)

** BATCH PROCESSOR RECONSTRUCT **
1 UL 150/150 D10 + 8383-SED 9/16/81 BMH
50(4)-280(8) BTL#11 D13439

FRN 13439
1ST SC/PG:1865
X= .25 Y= 1.00

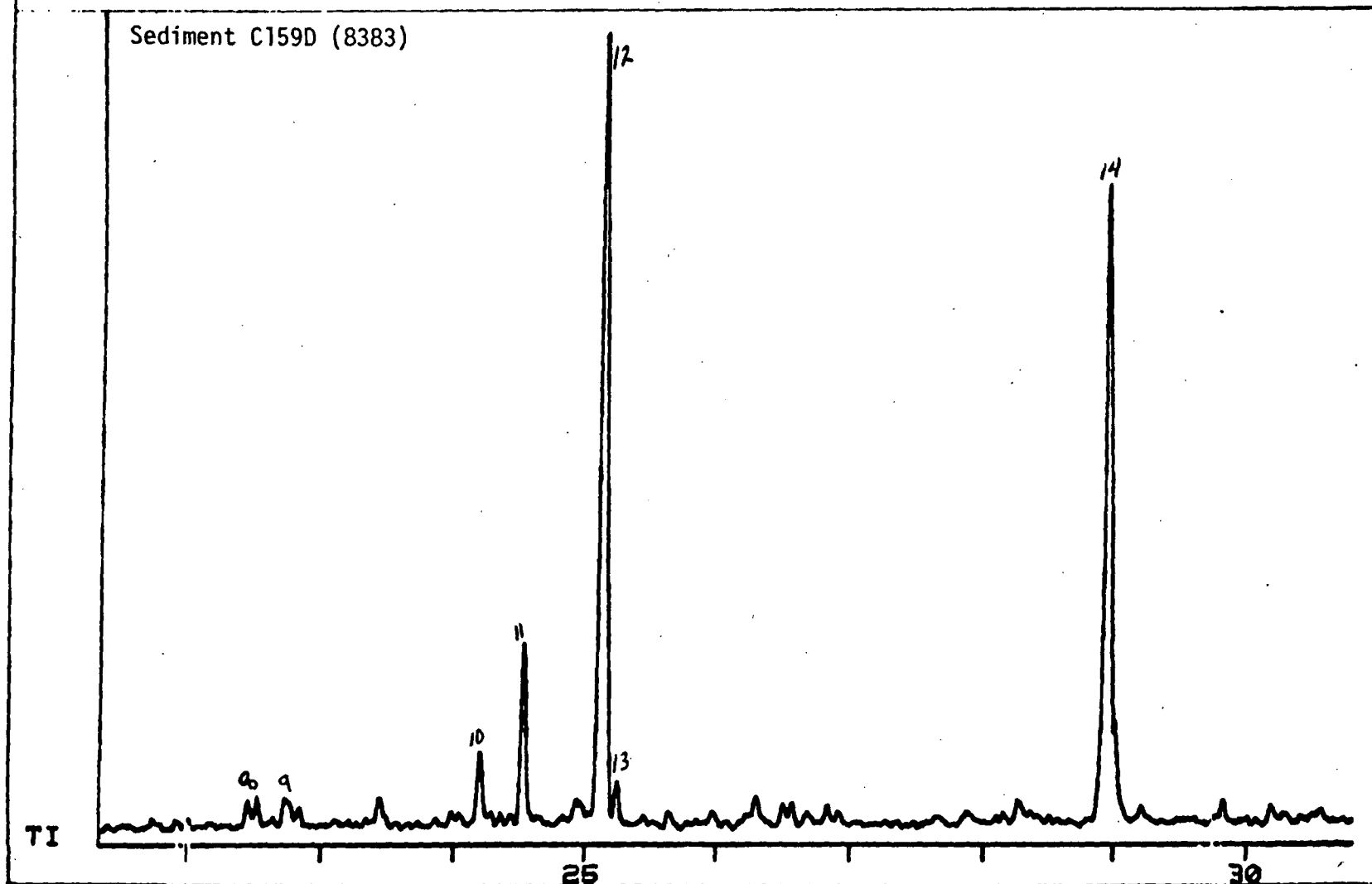


Figure I-18 (continued)

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** BATCH PROCESSOR RECONSTRUCT **
1 UL 150/150 D10 + 8383-SED 9/16/81 BMH
50(4)-280(8) BTL#11

FRN 13439
1ST SC/PG:2797
X= .25 Y= 1.00

Sediment C159D (8383)

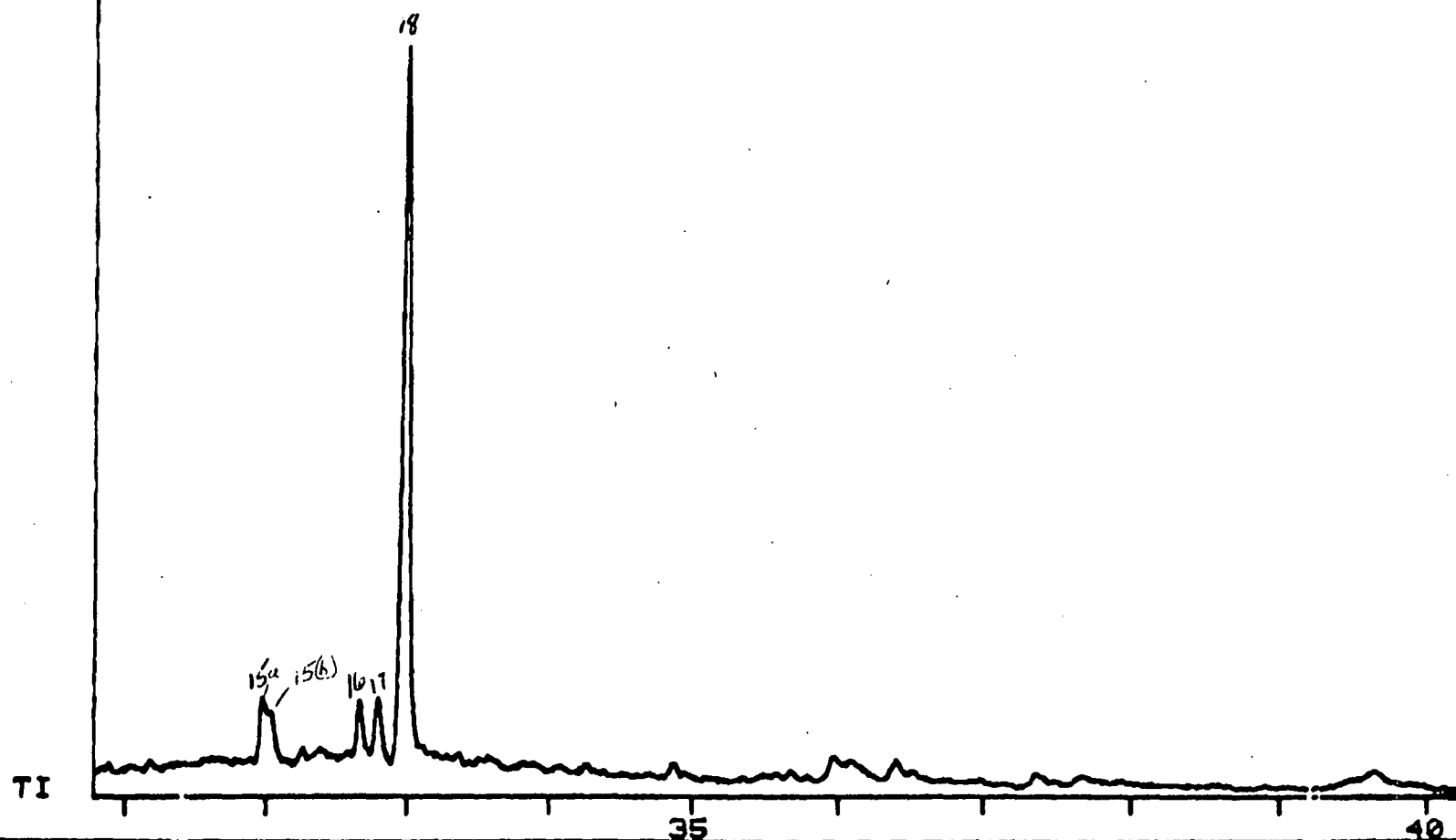


Figure I-18 (continued)

** BATCH PROCESSOR RECONSTRUCT **
1 UL 150/150 D10 + 8405-SED 9/16/81 BMH
50(4)-280(8) BTL#25 D13453

FRN 13453
1ST SC/PG: 1
X= .25 Y= 1.00

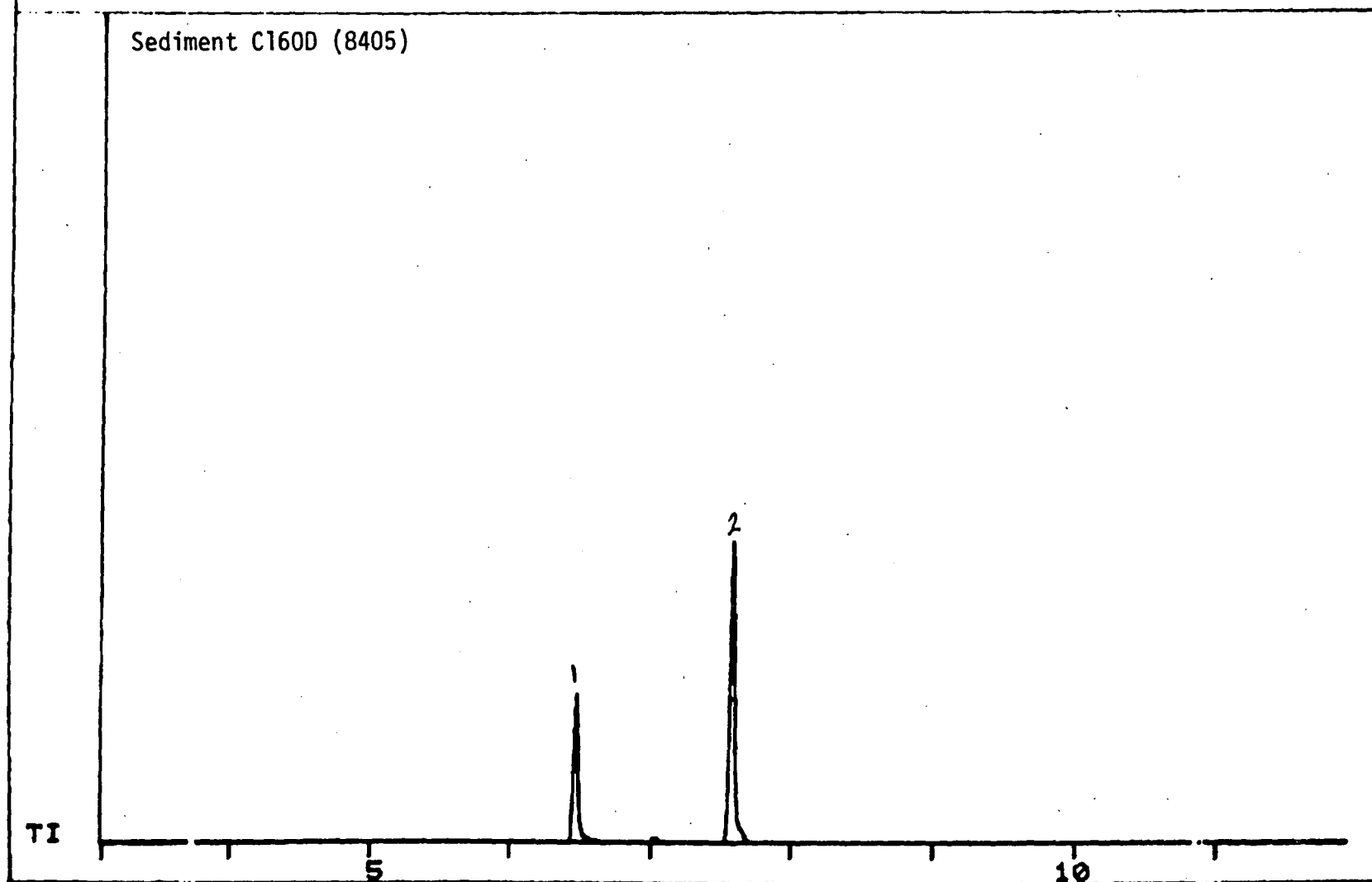


Figure I-19. Chromatogram from the capillary GC/MS analysis of sediment sample C160D.

** BATCH PROCESSOR RECONSTRUCT **
1 UL 150/150 D10 + 8405-SED 9/16/81 BMH
50(4)-280(8) BTL#25 D13453

FRN 13453
1ST SC/PG: 933
X= .25 Y= 1.00

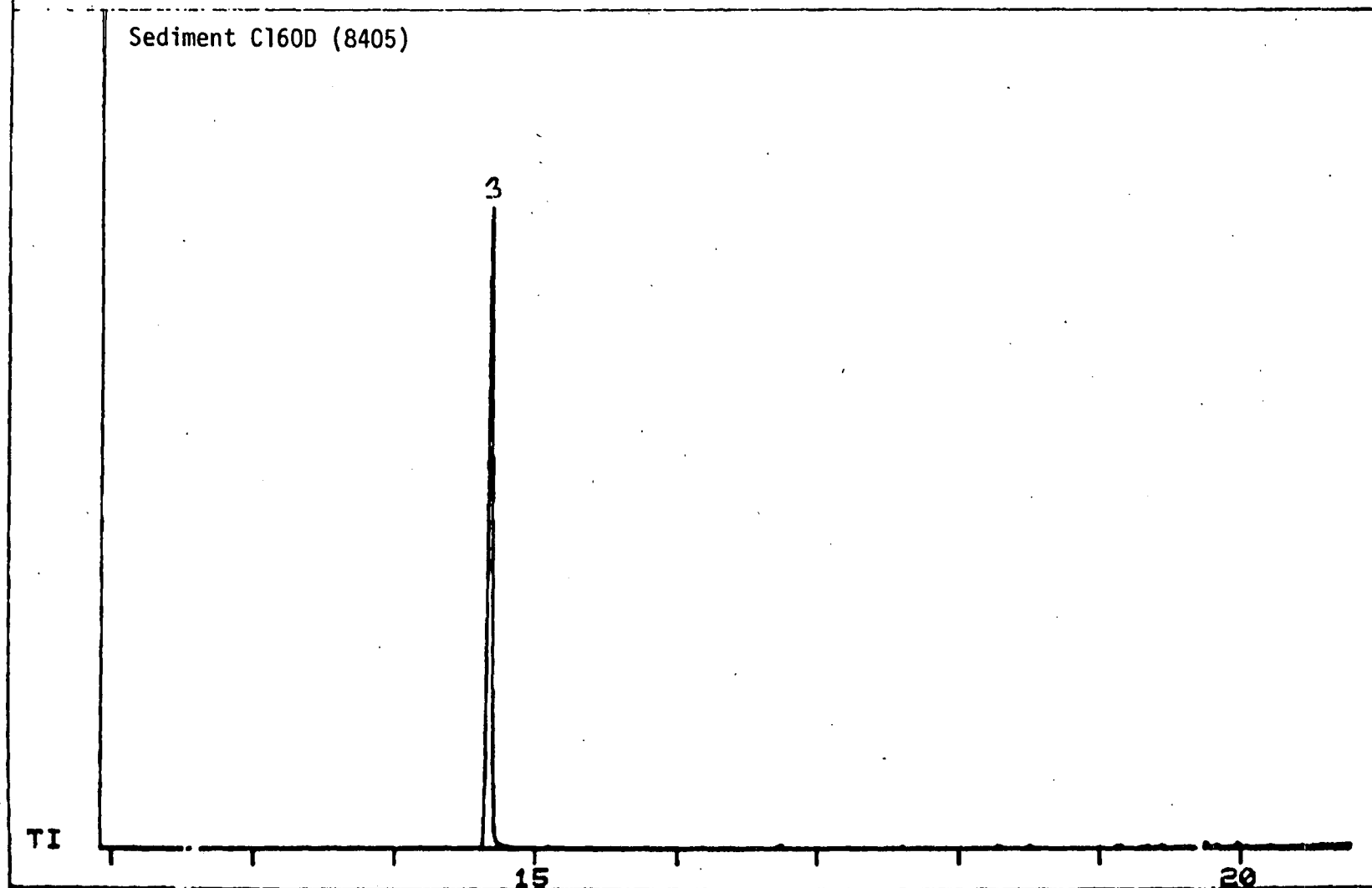


Figure I-19 (continued)

** BATCH PROCESSOR RECONSTRUCT **
1 UL 150/150 D10 + 8405-SED 9/16/81 BMH
50(4)-280(8) BTL#25 D13453

FRN 13453
1ST SC/PG:1865
X= .25 Y= 1.00

I-76

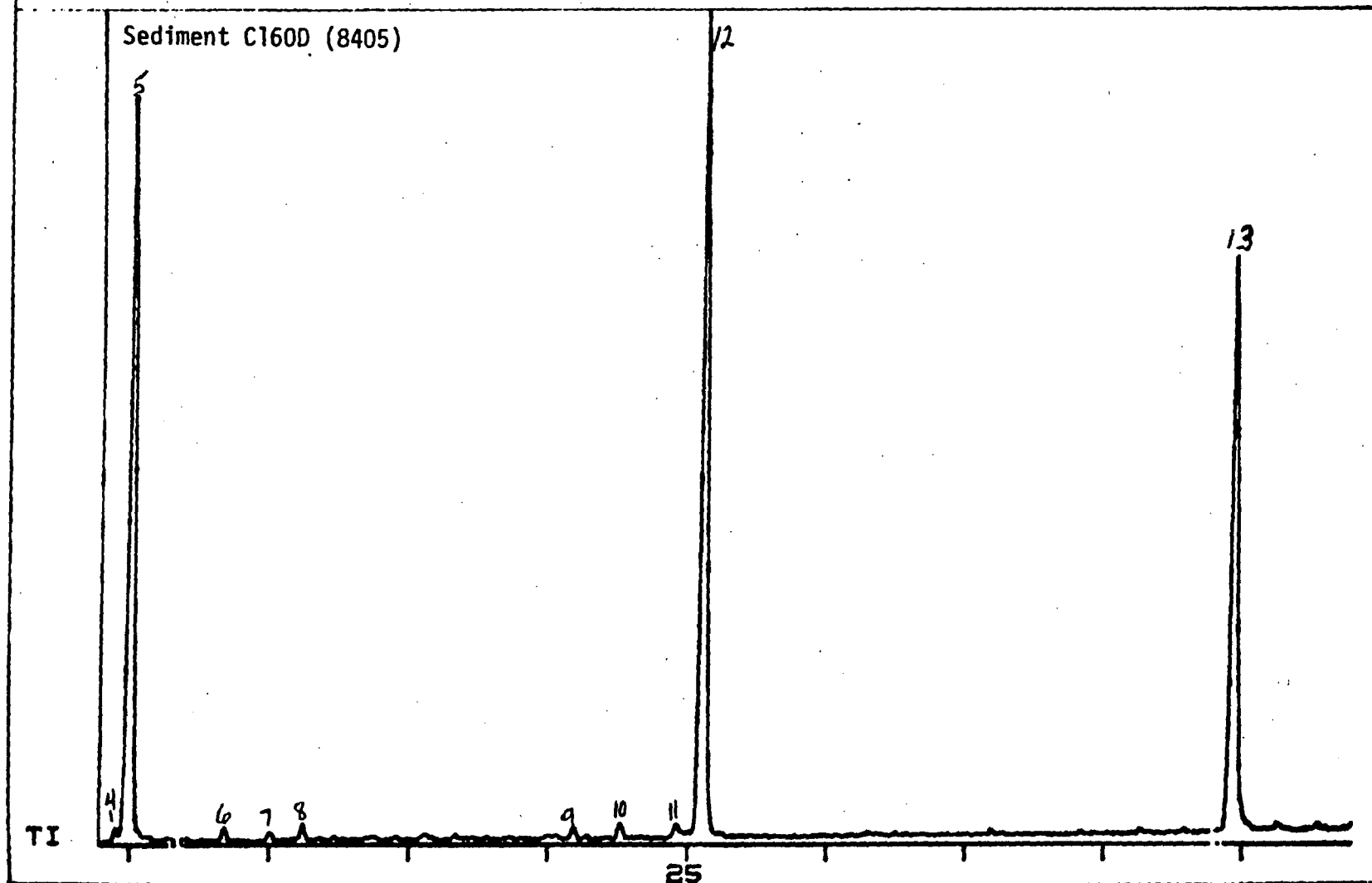


Figure I-19 (continued)

** BATCH PROCESSOR RECONSTRUCT **
1 UL 150/150 D10 + 8405-SED 9/16/81 BMH
50(4)-280(8) BTL#25 D13453

FRN 13453
1ST SC/PG:2797
X= .25 Y= 1.00

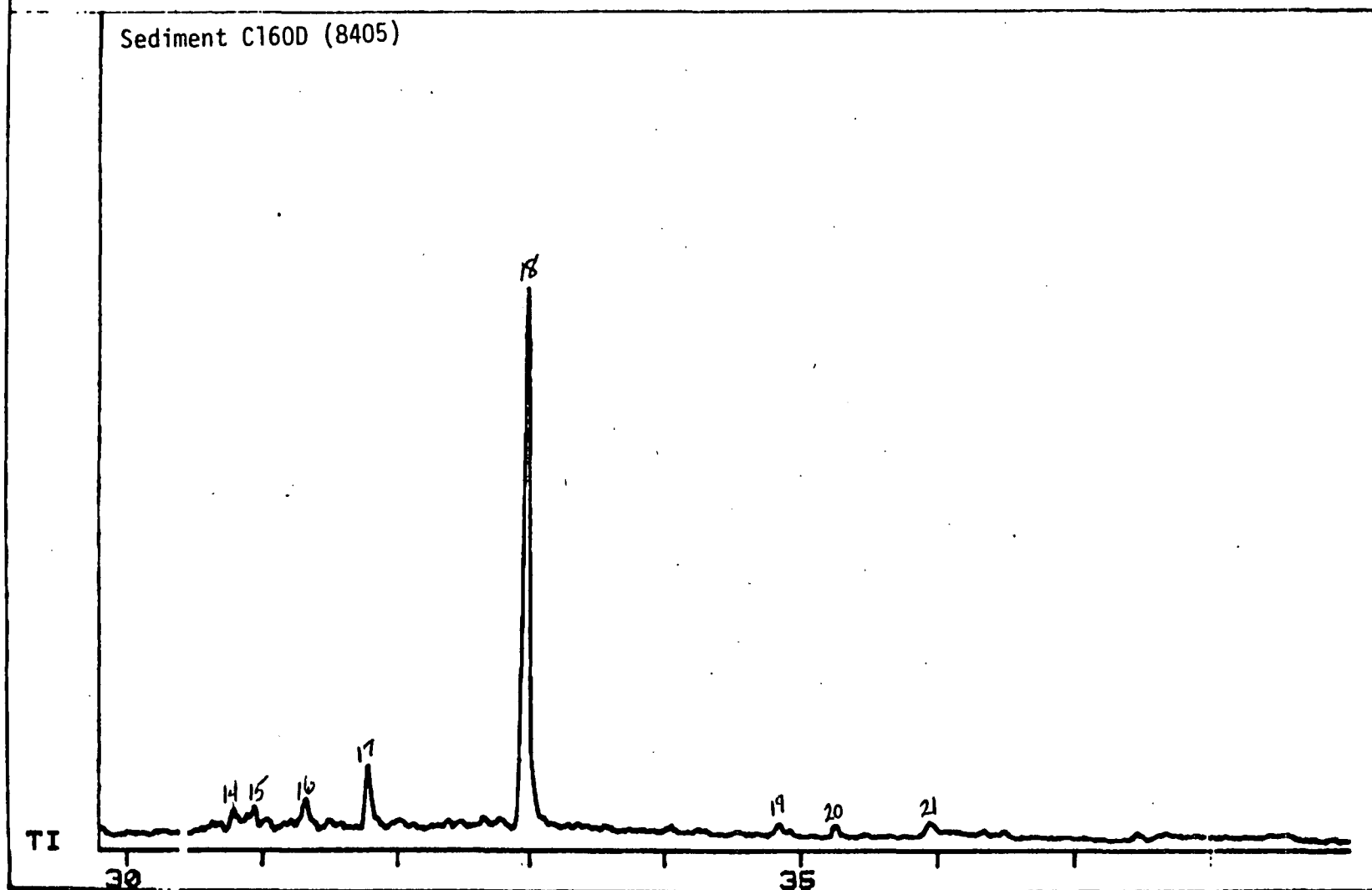


Figure I-19 (continued)

1 UL 150/150 D10 + 8384-SED (DIL 1:2) 9/17/81 BMH
50(4)-280(89 BTL#4

*** BATCH PROCESSOR RECONSTRUCT ***

D13464

FRN 13464

1ST SC/PG: 1

X= .25 Y= 1.00

Sediment B126S (8384) DIL 1:2

TI

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Figure I-20. Chromatogram from the capillary GC/MS analysis of sediment sample B126S.

** BATCH PROCESSOR RECONSTRUCT **
1. UL 150/150 D10 + 8384-SED (DIL 1:2) 9/17/81 BMH
50(4)-280(89 BTL#4

FRN 13464
1ST SC/PG: 933
X= .25 Y= 1.00

Sediment B126S (8384) DIL 1:2

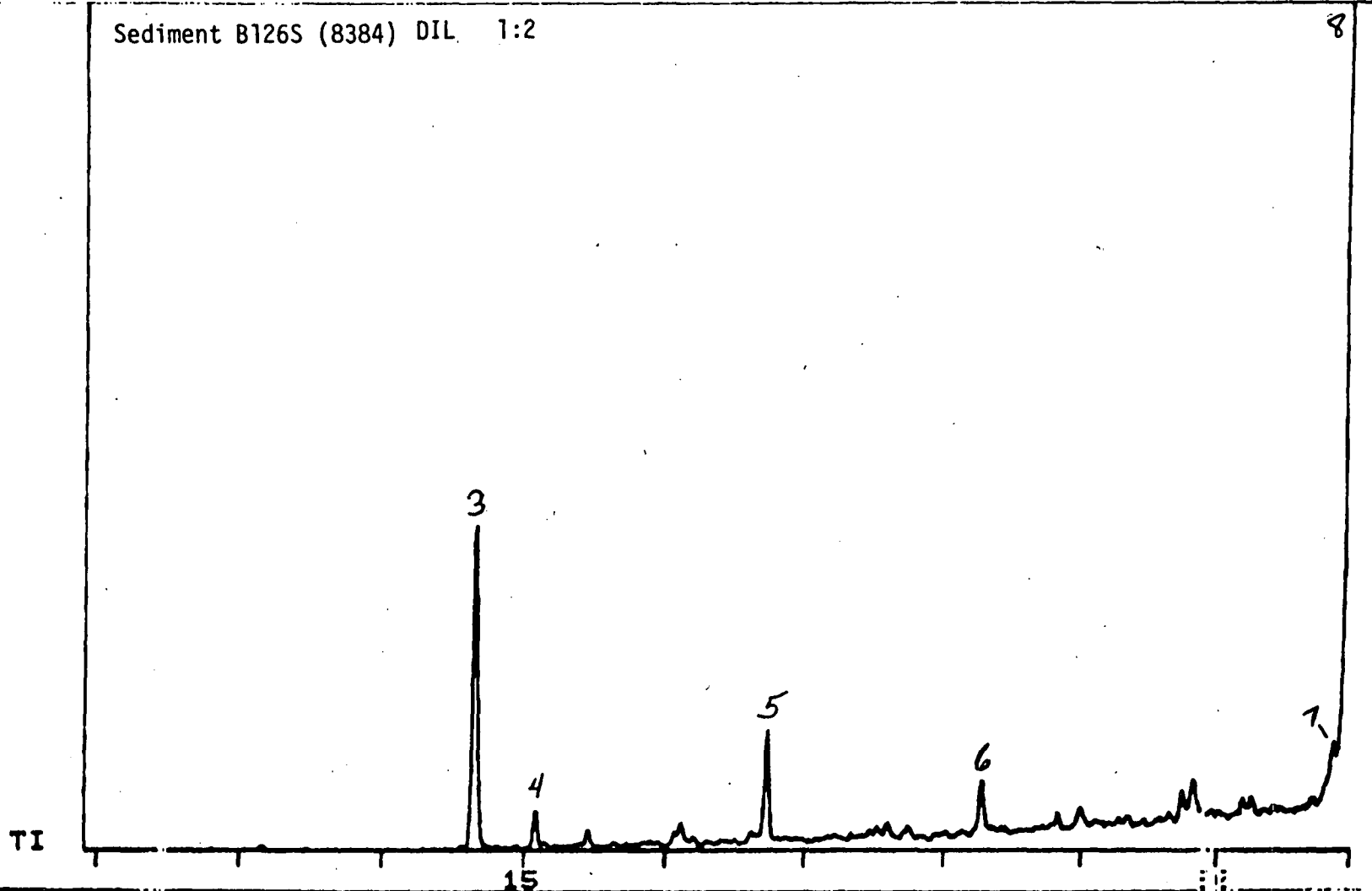


Figure I-20 (continued)

1 UL 150/150 D10 + 8384-SED (DIL 1:2) 9/17/81 BMH
50(4)-280(89 BTL#4

D13464

FRN 13464
1ST SC/PG:1865
X= .25 Y= 1.00

Sediment B126S (8384) DIL 1:2

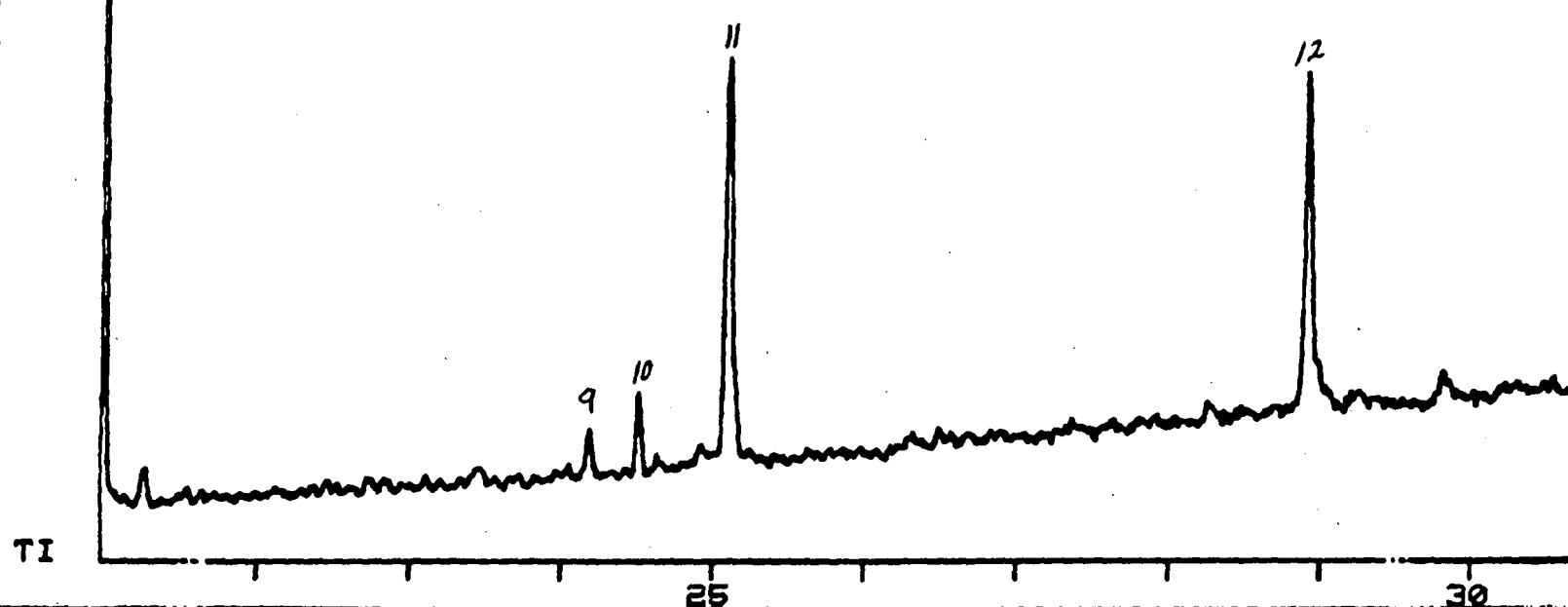


Figure I-20 (continued)

** BATCH PROCESSOR RECONSTRUCT **
1 UL 150/150 D10 + 8384-SED (DIL 1:2) 9/17/81 BMH
50(4)-280(89 BTL#4 D13464

FRN 13464
1ST SC/PG:2797
X= .25 Y= 1.00

Sediment B126S (8384) DIL 1:2

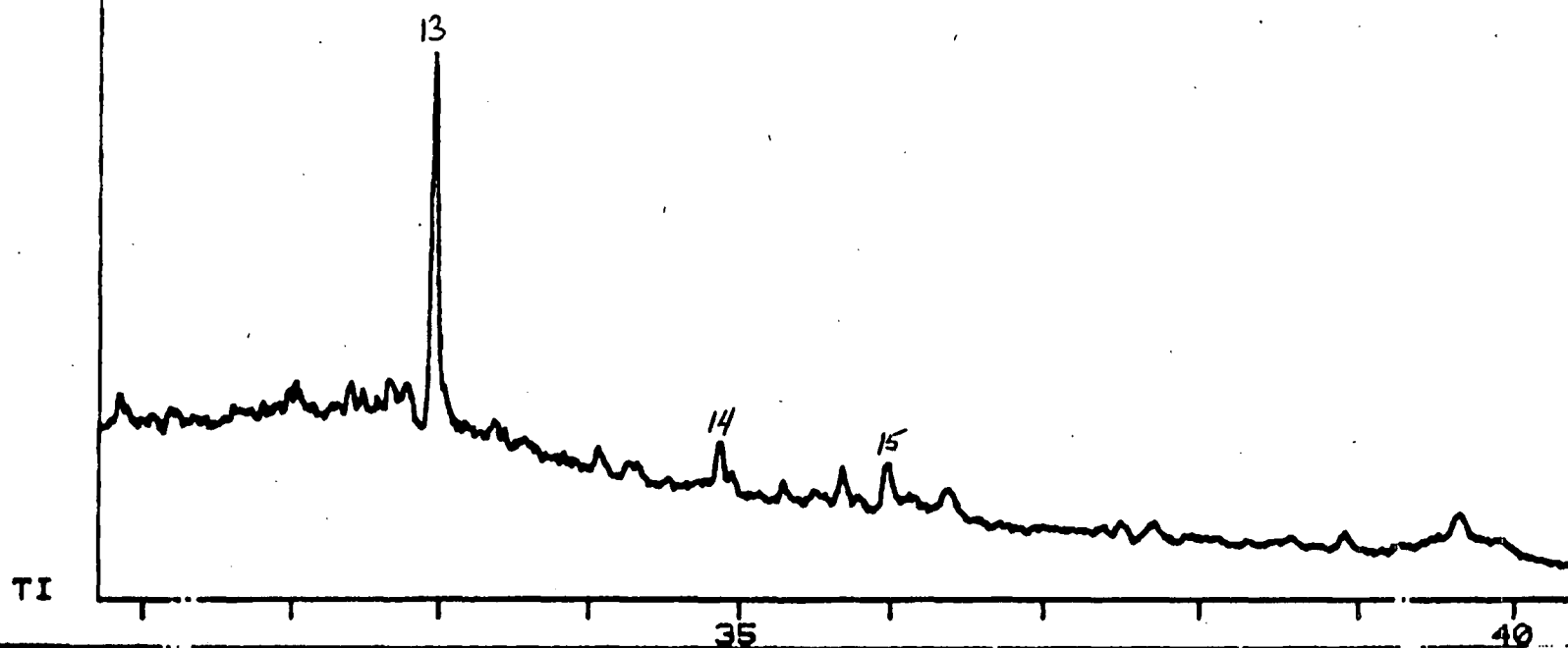


Figure I-20 (continued)

I8-I

I-82

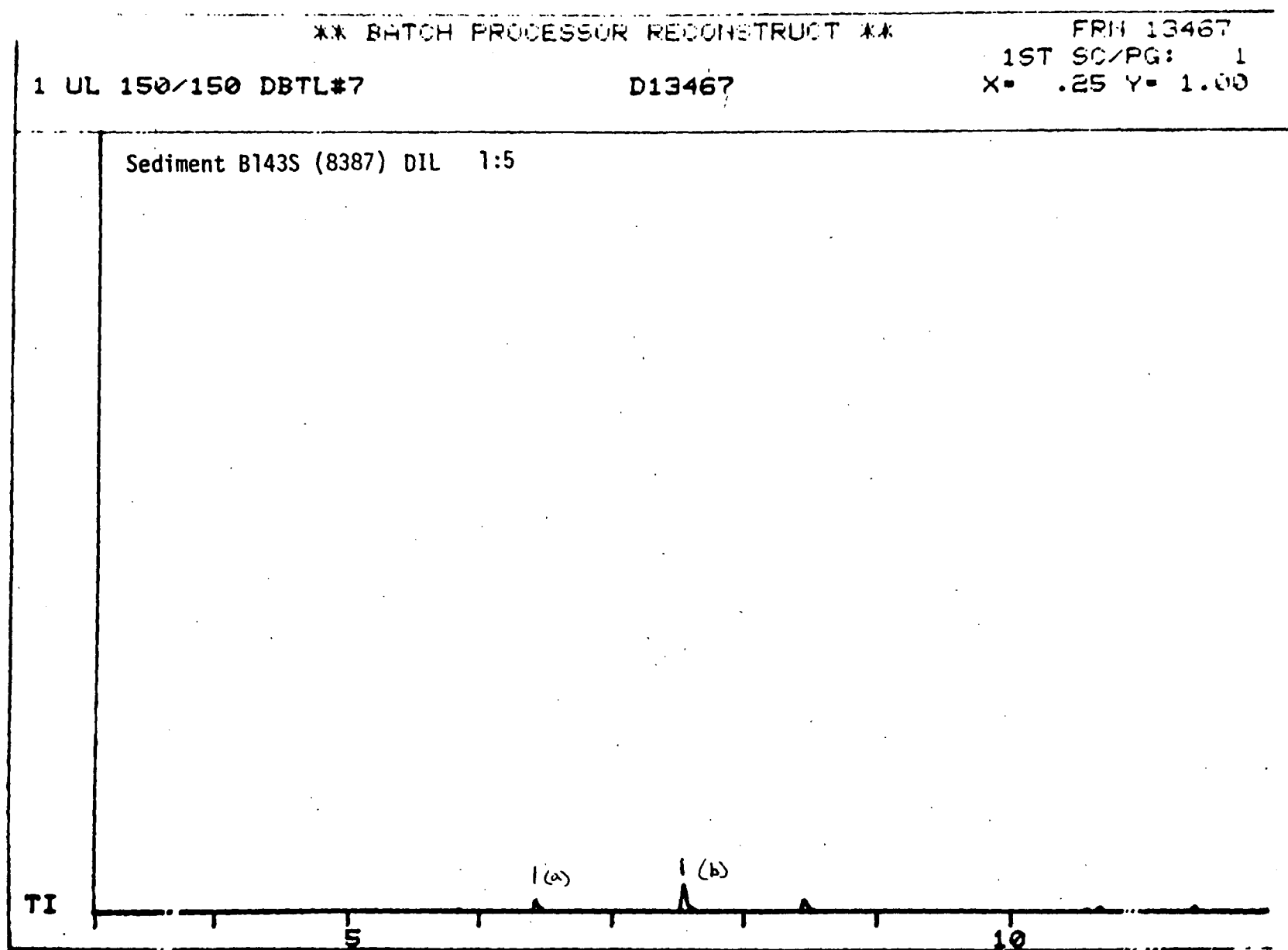


Figure I-21. Chromatogram from the capillary GC/MS analysis of sediment sample B143S.

** BATCH PROCESSOR RECONSTRUCT **

FRN 13467

1 UL 150/150 DBTL#7

D13467

1ST SC/PG: 933

X= .25 Y= 1.00

Sediment B143S (8387) DIL 1:5

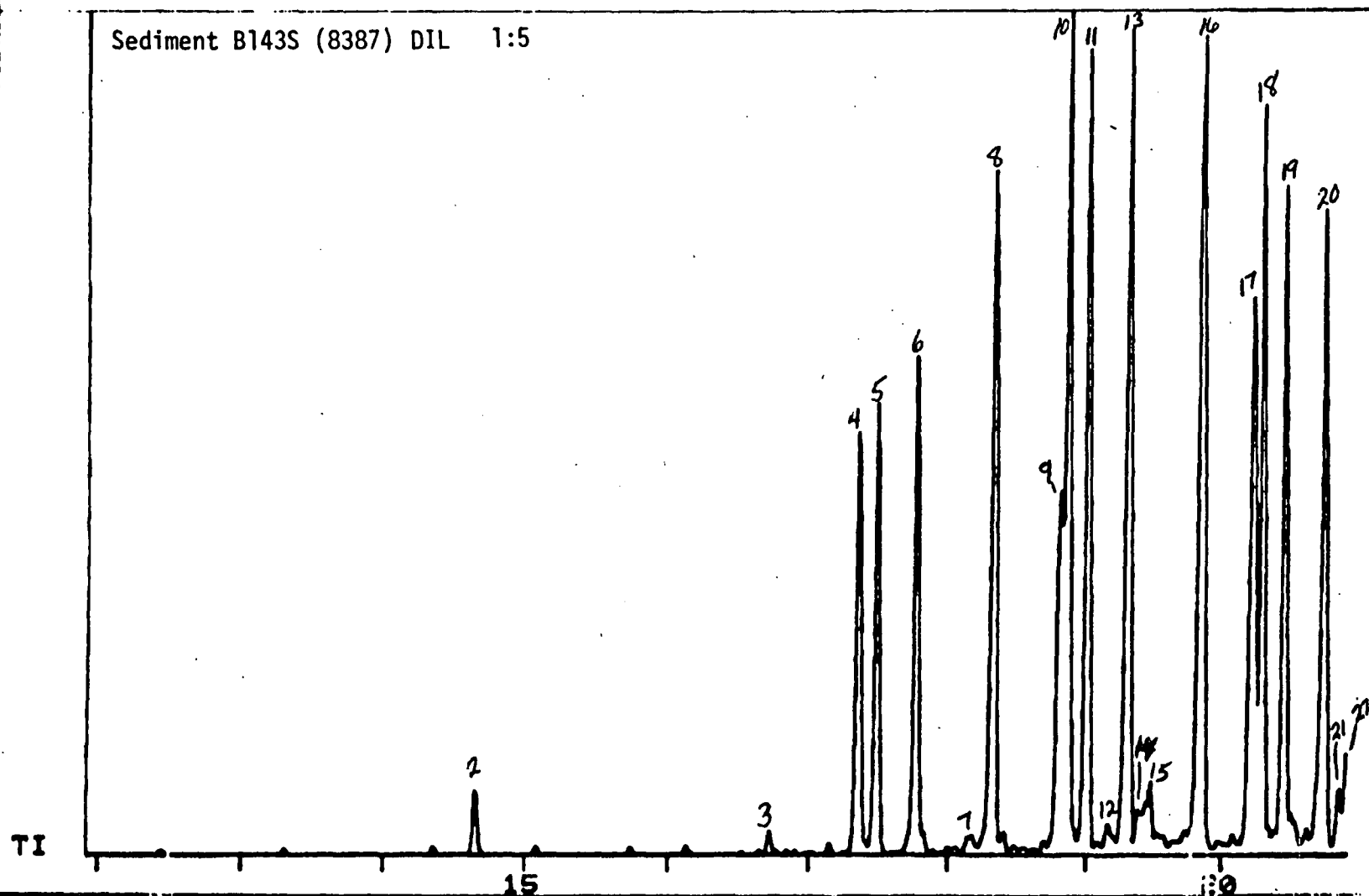


Figure I-21 (continued)

I-83

** BATCH PROCESSOR RECONSTRUCT **

FRN 13467

1 UL 150/150 DBTL#7

D13467

1ST SC/PG:1865
X= .25 Y= 1.00

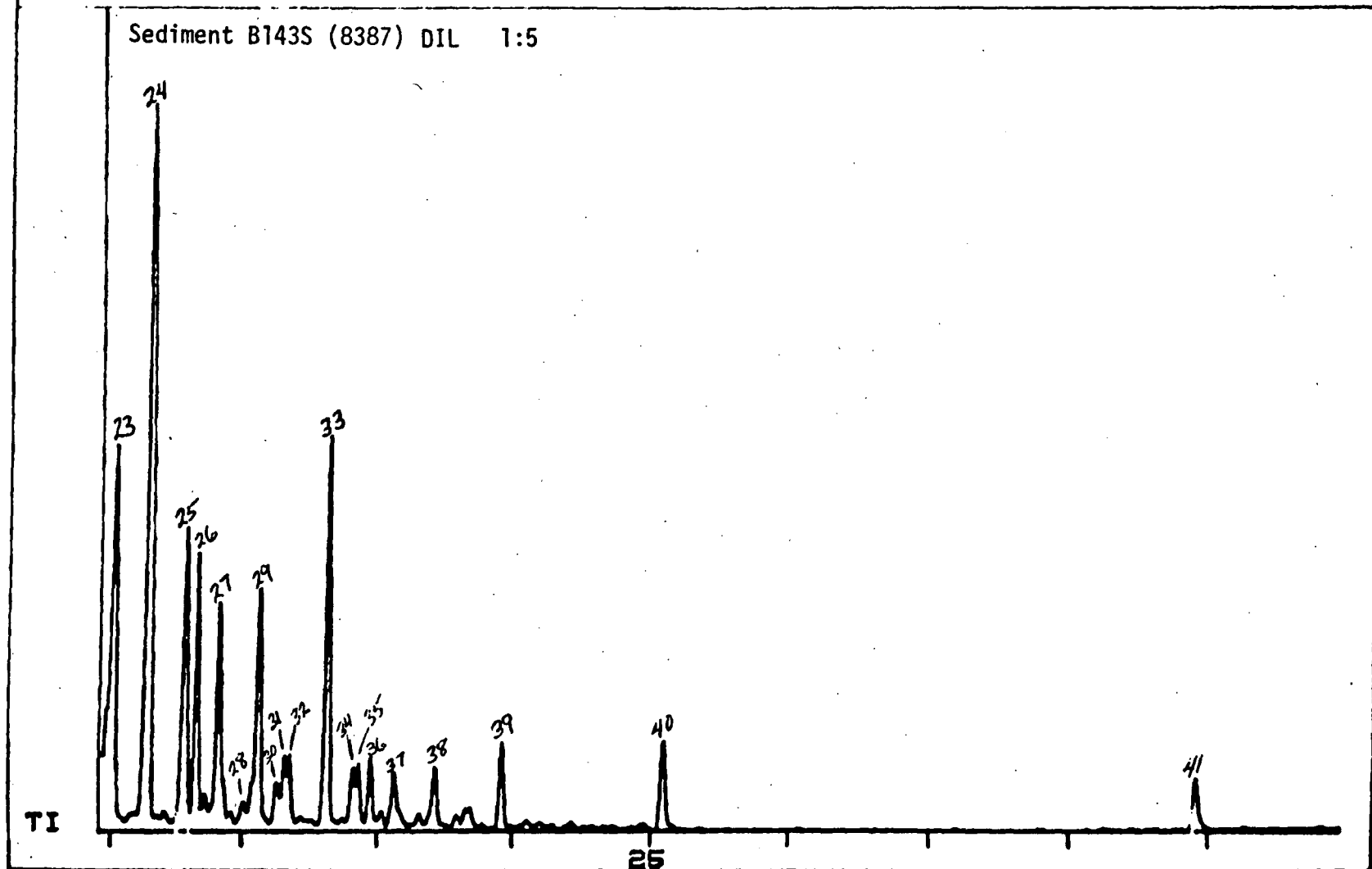


Figure I-21 (continued)

** BATCH PROCESSOR RECONSTRUCT **

FRN 13467

1 UL 150/150 DBTL#7

D13467

1ST SC/PG:2797

X= .25 Y= 1.00

Sediment B143S (8387) DIL 1:5

TI

30

35

42

Figure I-21 (continued)

I-85

** BATCH PROCESSOR RECONSTRUCT **
1 UL 150/150 D10 + 8396-SED (DIL 1:2) 9/25/81 BMH
50(4)-280(8) BTL#3 D13518

FRN 13518
1ST SC/PG:1865
X= .25 Y= 1.00

Sediment C169S (8396) DIL 1:2



Figure I-22 (continued)

** BATCH PROCESSOR RECONSTRUCT **
1 UL 150/150 D10 + 8396-SED (DIL 1:2) 9/25/81 BMH
50(4)-280(8) BTL#3 D13518

FRN 13518
1ST SC/PG:2797
X= .25 Y= 1.00

Sediment C169S (8396) DIL 1:2

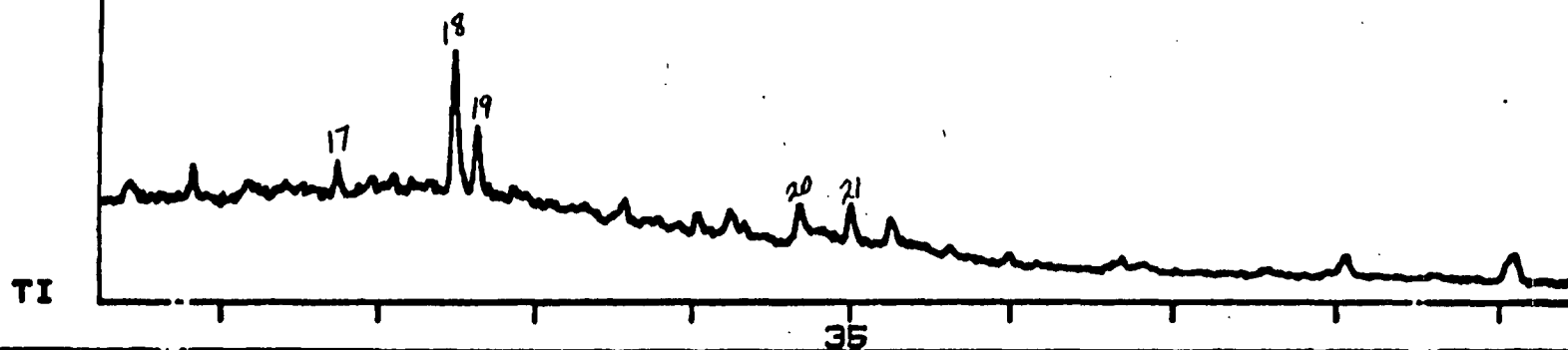


Figure I-22 (continued)

APPENDIX J

ANALYSIS OF BLANKS AND STANDARDS ASSOCIATED WITH THE ANALYSIS OF PLANT EFFLUENTS AND SEDIMENTS

In addition to the standards analyses shown and discussed in Section C.11, a number of standards required analysis in order to: (1) insure no instrument contamination of extracts being analyzed, (2) calibrate the capillary GC/FID response for the determination of TCO and TCG values, (3) calibrate the retention time axis to calculate relative retention indices (RRI) from both GC/FID and GC/MS data, and (4) insure that no contamination of extracts was due to sample manipulation and handling. Figures J-1 and J-2 (all figures and tables will appear following the text of Appendix J) show the capillary GC/FID and capillary GC/MS analyses of Burdick and Jackson methylene chloride used for solvent/solvent extraction of the plant effluents. Note that the mass spectral analysis includes the co-injection of 50 ng anthracene-d₁₀ used as an internal standard for all mass spectral analyses. Figure J-3 shows the capillary GC/FID analysis of a standard containing C₇-alkane and C₁₇-alkane which were used to determine the retention time ranges for the summation of FID intensities to calculate TCO and TCG values. Figure J-4 shows the hydrocarbon standard containing C₈-, C₁₂-, C₁₆-, C₂₀-, and C₂₄-alkanes used to calibrate the FID response for calculation of TCO and TCG values.

Figures J-5 and J-6 show FID and MS analyses of the spiking standard used for the calculation of recoveries of deuterated compounds added to the 10-L water sample or 30-g sediment sample before methylene chloride extraction. The chromatograms shown in Figures J-7 and J-8 show the analysis of the PNA marker compounds used to externally calculate relative retention indices of all components identified from the FID or total ion chromatogram.

This standard was analyzed each time capillary GC/FID and capillary GC/MS analyses were performed on effluent and sediment extracts.

The last group of analyses demonstrate the potential contamination in effluent and sediment extracts that may be introduced as a result of the liquid/liquid or Soxhlet extraction of samples. Figures J-9 and J-10 show capillary GC/FID and capillary GC/MS chromatograms from the analysis of the base/neutral extractables method blank. Figures J-11 and J-12 show similar analyses of the acid extractables method blank. Tables J-1 through J-4 show the relative retention indices and the mass spectral identifications of the major components present in these two method blanks. While the base/neutral method blank contains only those deuterated spiking compounds which were added to determine recoveries of these materials, the acid extractables method blank includes a very large impurity of a common plasticizer (dioctyl ester of hexadecanoic acid). This component and other plasticizers present in the acid extractables method blank were present only in the acid extracts of effluents from plants B111D, C151D, C150D, and C161D. (The last effluent acid extract contained only a very minor amount of the dioctyl ester of hexadecanoic acid.)

In order to estimate the types of contaminants that may be introduced in the freeze-drying process, 30 g of distilled water was spiked with 1 mL of the deuterated spiking compounds used in the liquid/liquid extraction of effluents and the Soxhlet extraction of freeze-dried sediment samples. This resulting spiked water sample was freeze-dried following the same procedures as were used for the freeze-drying of sediment samples. Figures J-13 and J-14 show chromatograms from the GC/FID and GC/MS analyses of a quantitative transfer of the freeze-dried residue of the spiked water sample. Tables J-5 and J-6 show relative retention indices and recovery data, respectively, obtained from the data shown in the latter two figures. Note that using spiked water is a worst

case for the determination of retention of deuterated spiking compounds by a typical sediment sample. However, this analysis does show that the broad, unresolved component present in all sediment extracts is not introduced in the freeze-drying process. The loss of compounds with volatilities greater than pyrene is not due to the liquid chromatographic fraction of the sediment extracts since recoveries greater than 50% were measured for all deuterated spiking compounds when a spiked 10-mL methylene chloride sample was treated similar to sediment sample extracts.

J-4

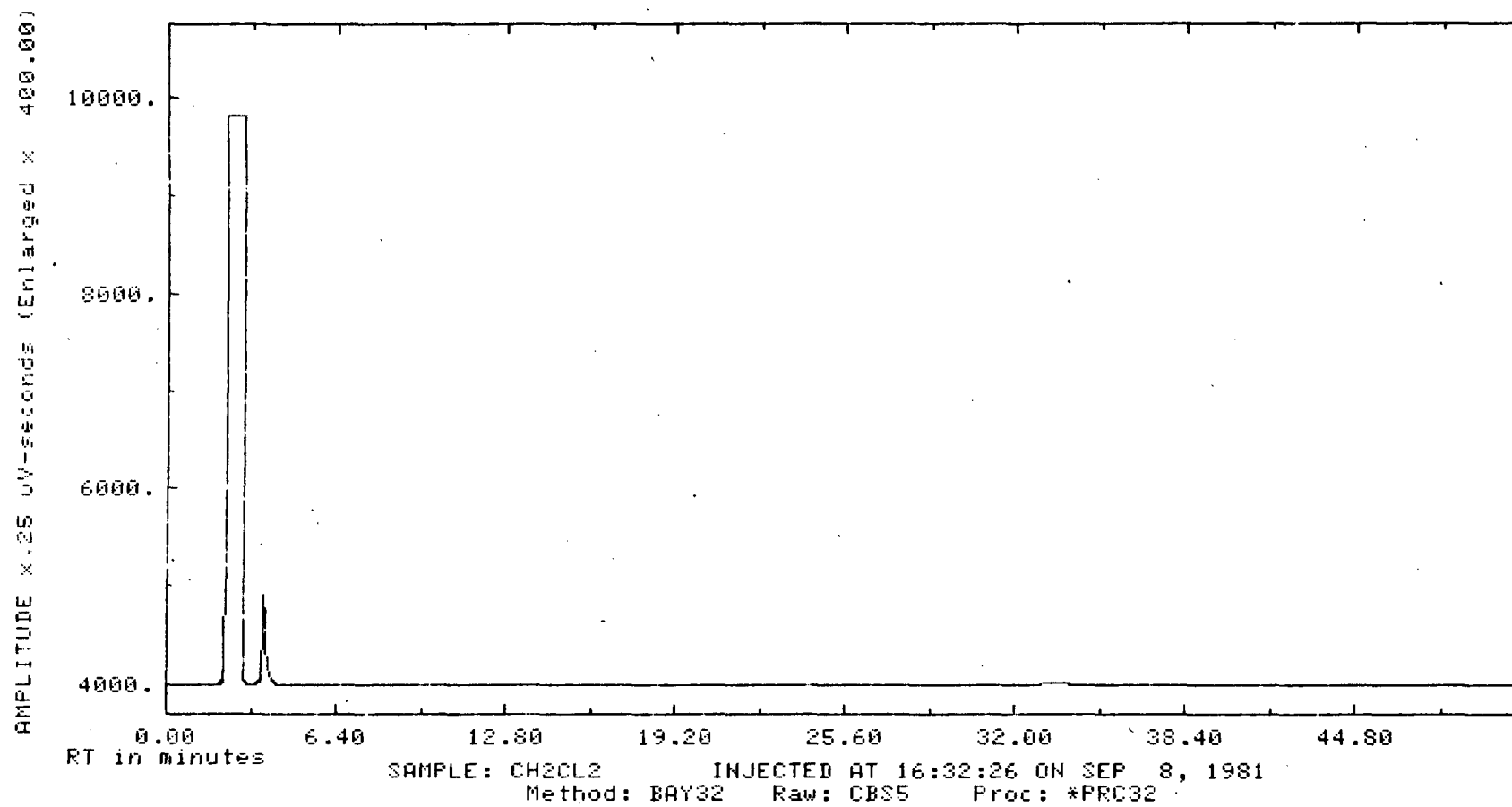


Figure J-1. Capillary GC/FID analysis of methylene chloride solvent blank.

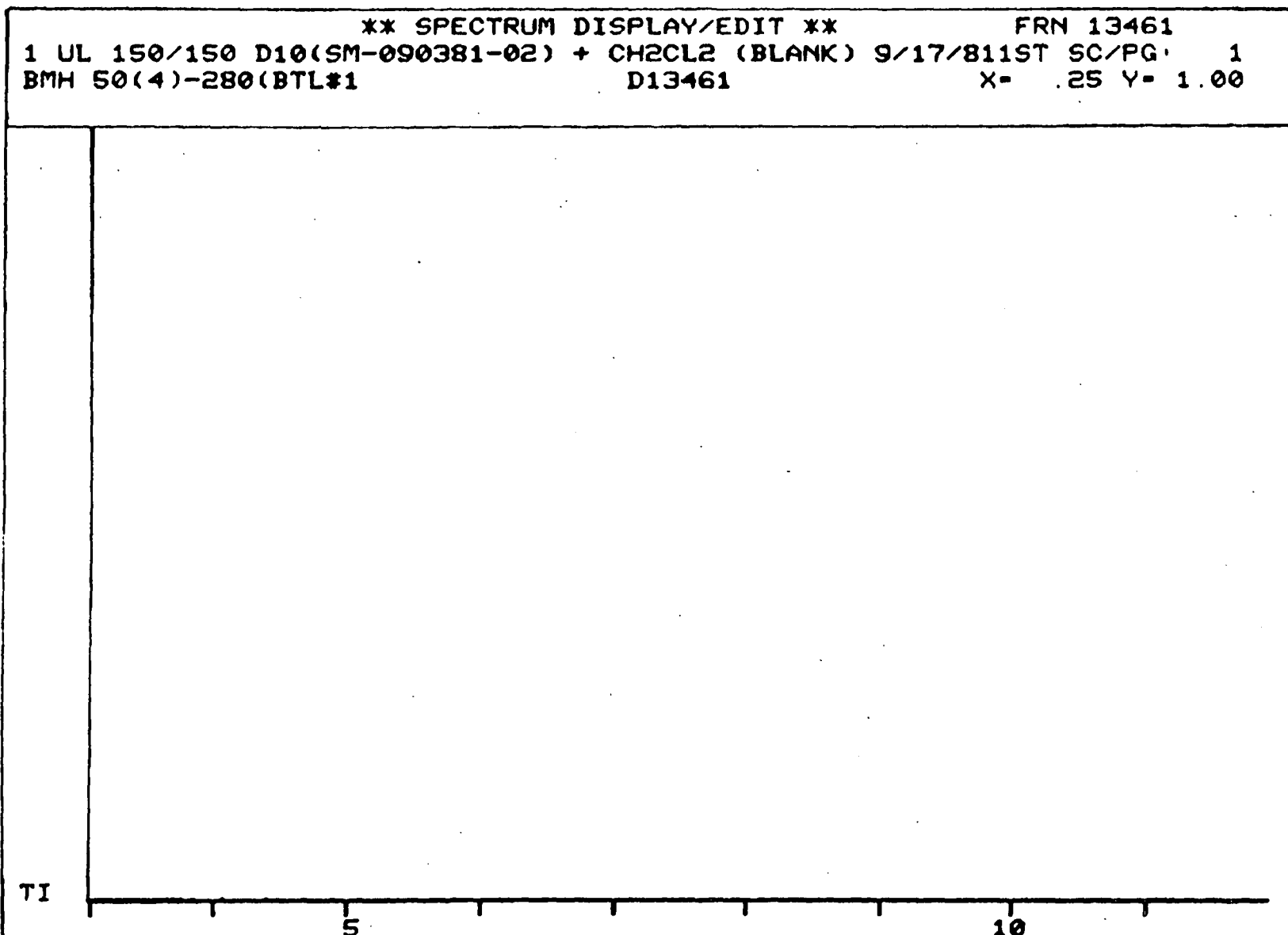


Figure J-2. Total ion chromatogram obtained from the capillary GC/MS analysis of methylene chloride solvent blank, co-injected with an equal volume of 100 $\mu\text{g/mL}$ anthracene- d_{10} internal standard.

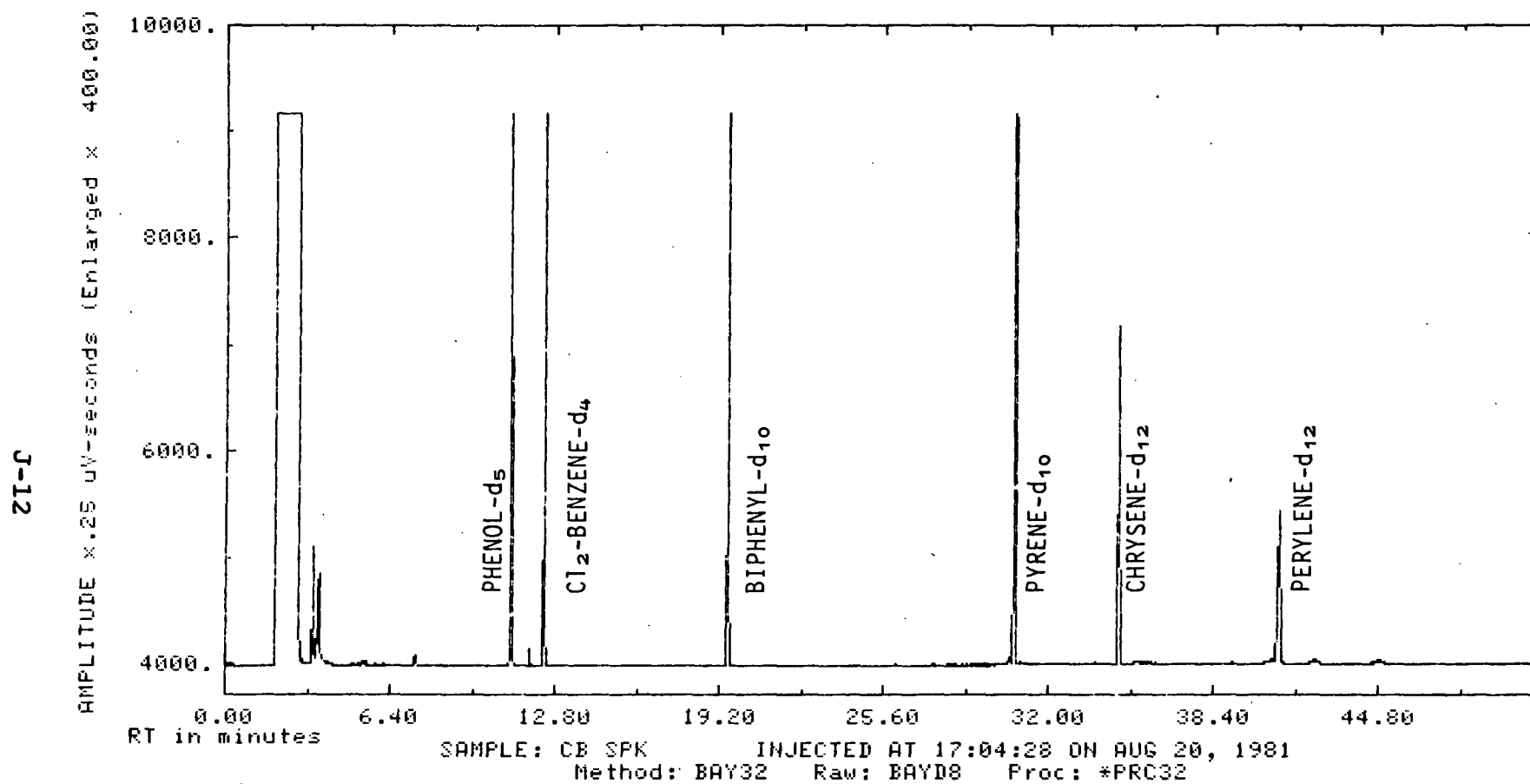


Figure J-5. Capillary GC/FID analysis of a 100 µg/mL composite spiking solution used to determine the efficiency of the liquid-liquid extraction of the water effluent and the Soxhlet extraction of the sediment samples.

1 UL 150/150 D10 + SED. SPK. SOLN 8384-96 (DIL 1.20) 1ST SC/PG. 1
9/17/81 BMH BTL#13 D13473 X= .25 Y= 1.00

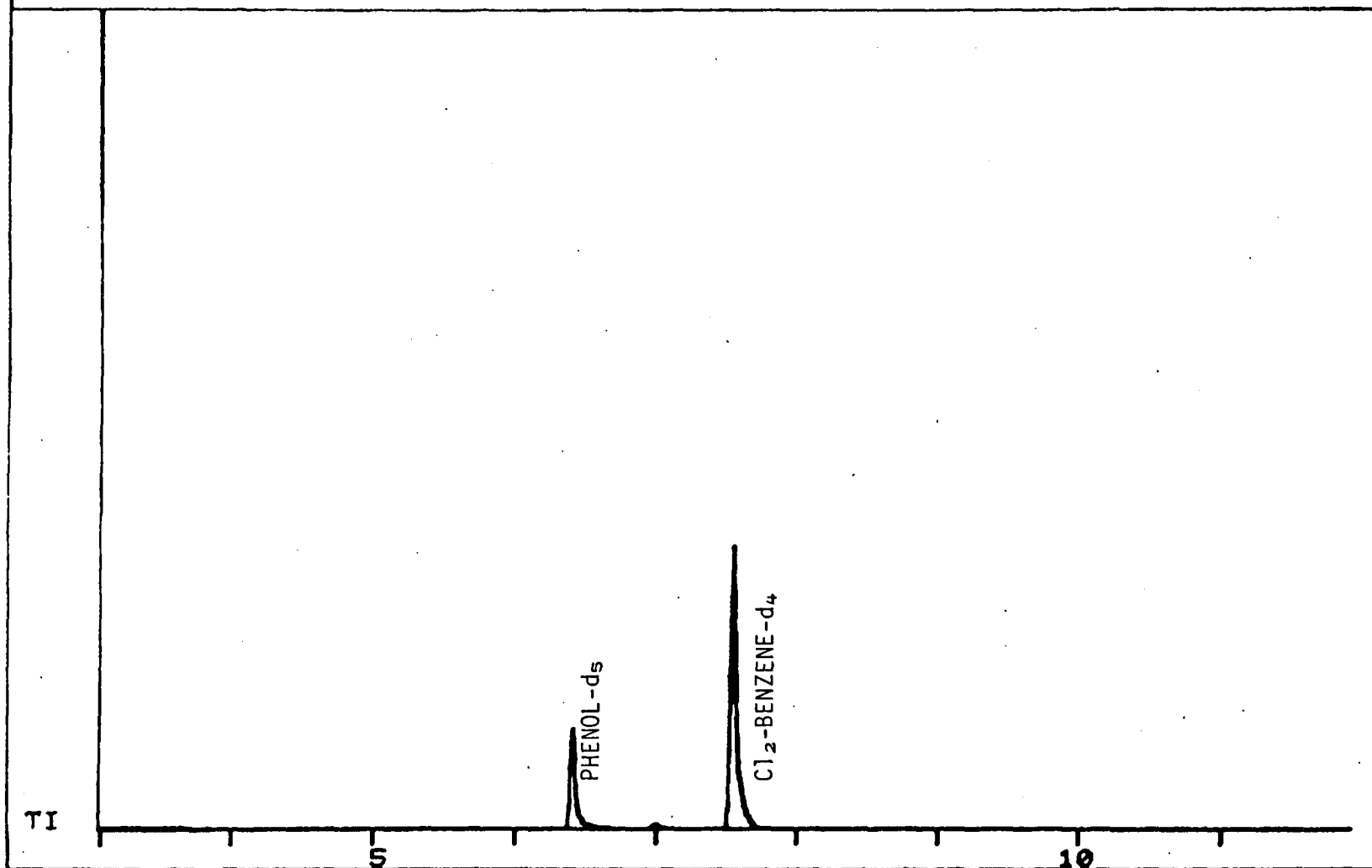


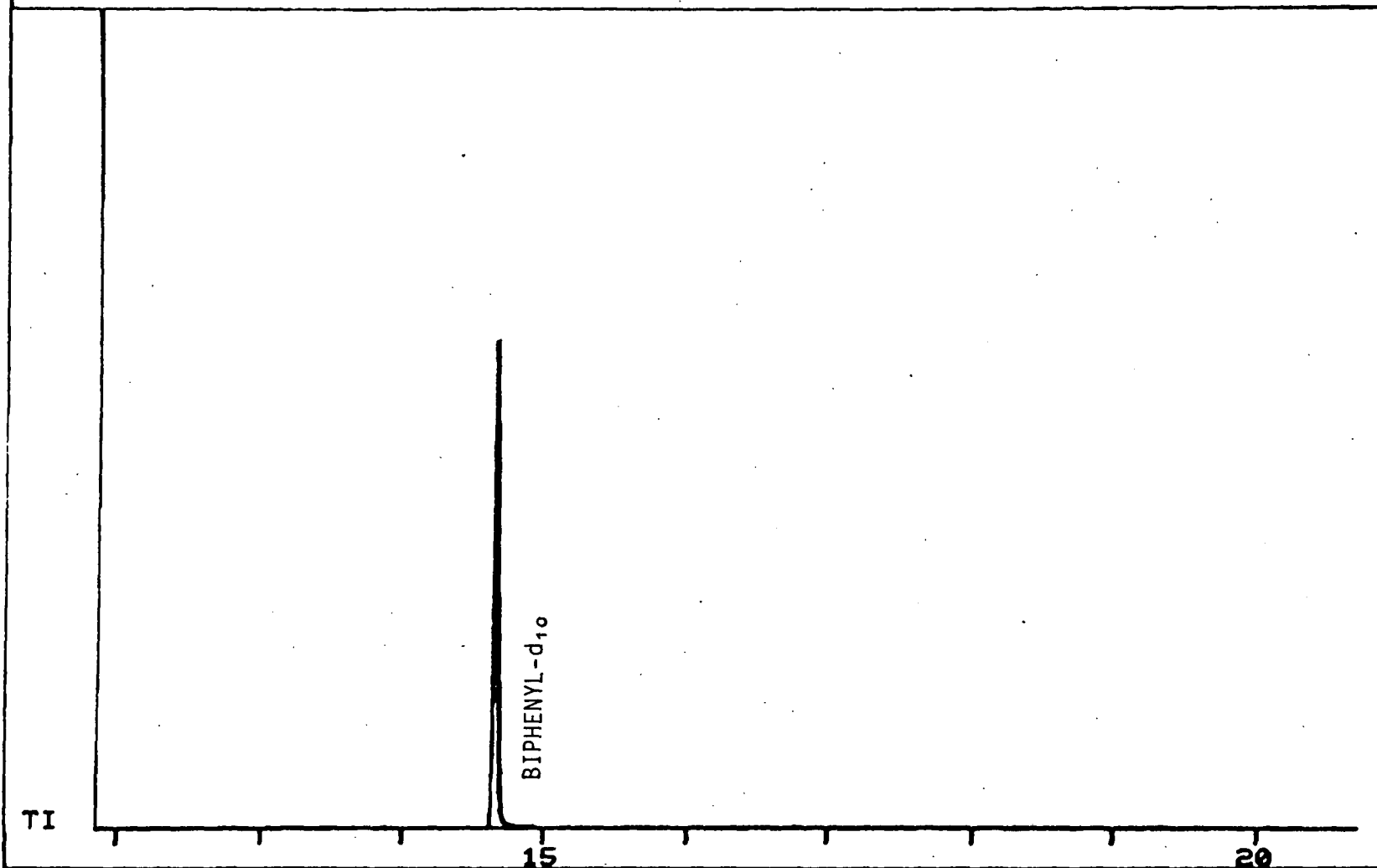
Figure J-6. Total ion chromatogram obtained from the capillary GC/MS analysis of a 100 µg/L spiking solution used to determine the efficiency of the liquid-liquid extraction of the composite water effluent sample and the Soxhlet extraction of sediment samples.

1 UL 150/150 D10 + SED. SPK. SOLN 8384-96 (DIL 1.20) 9/17/81 BMH BTL#13

FRN 13473 1ST SC/PG 926 X= .25 Y= 1.00

** SPECTRUM DISPLAY/EDIT **

D13473



J-14

Figure J-6 (continued)

SI-1

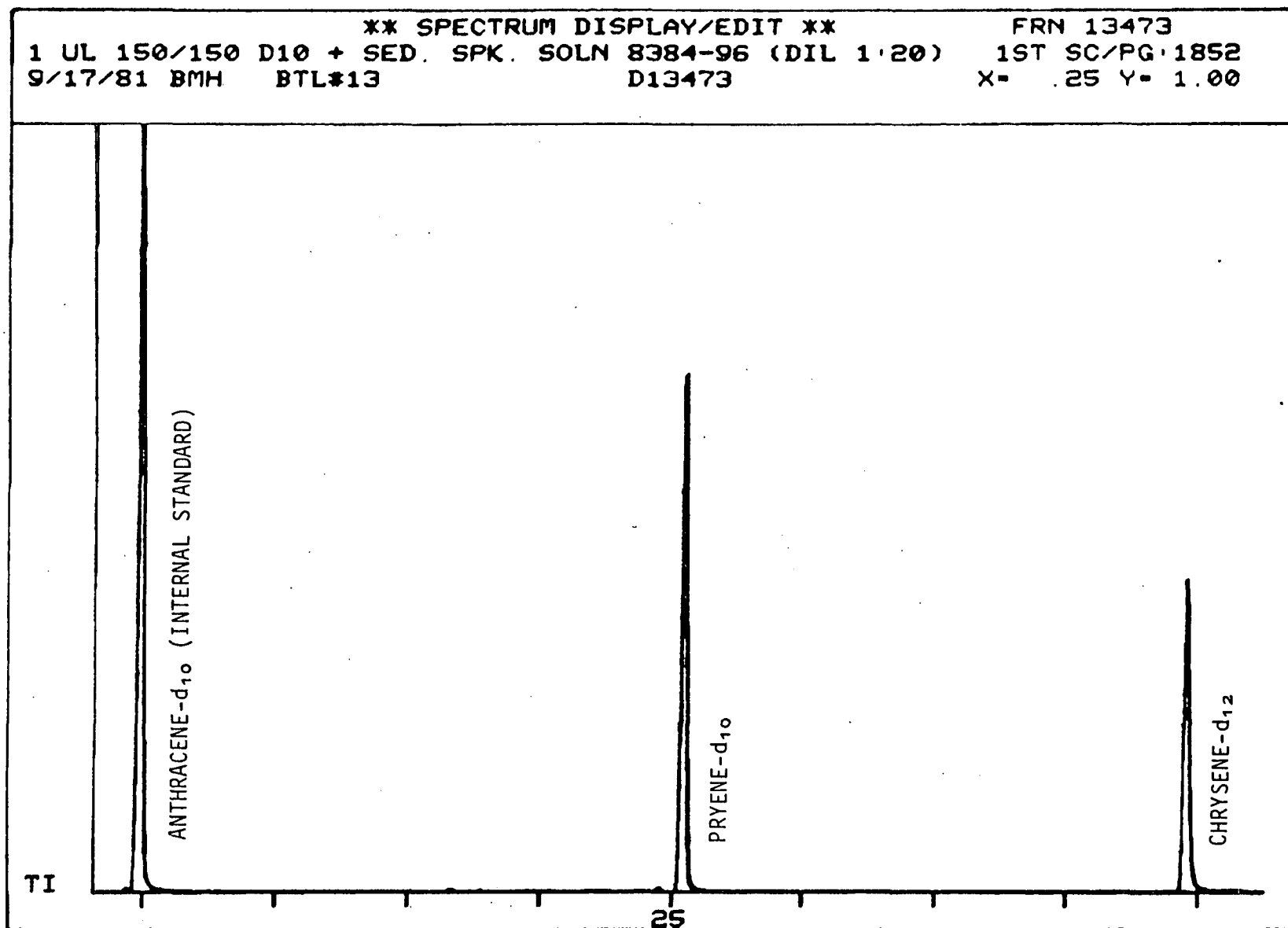


Figure J-6 (continued)

J-16

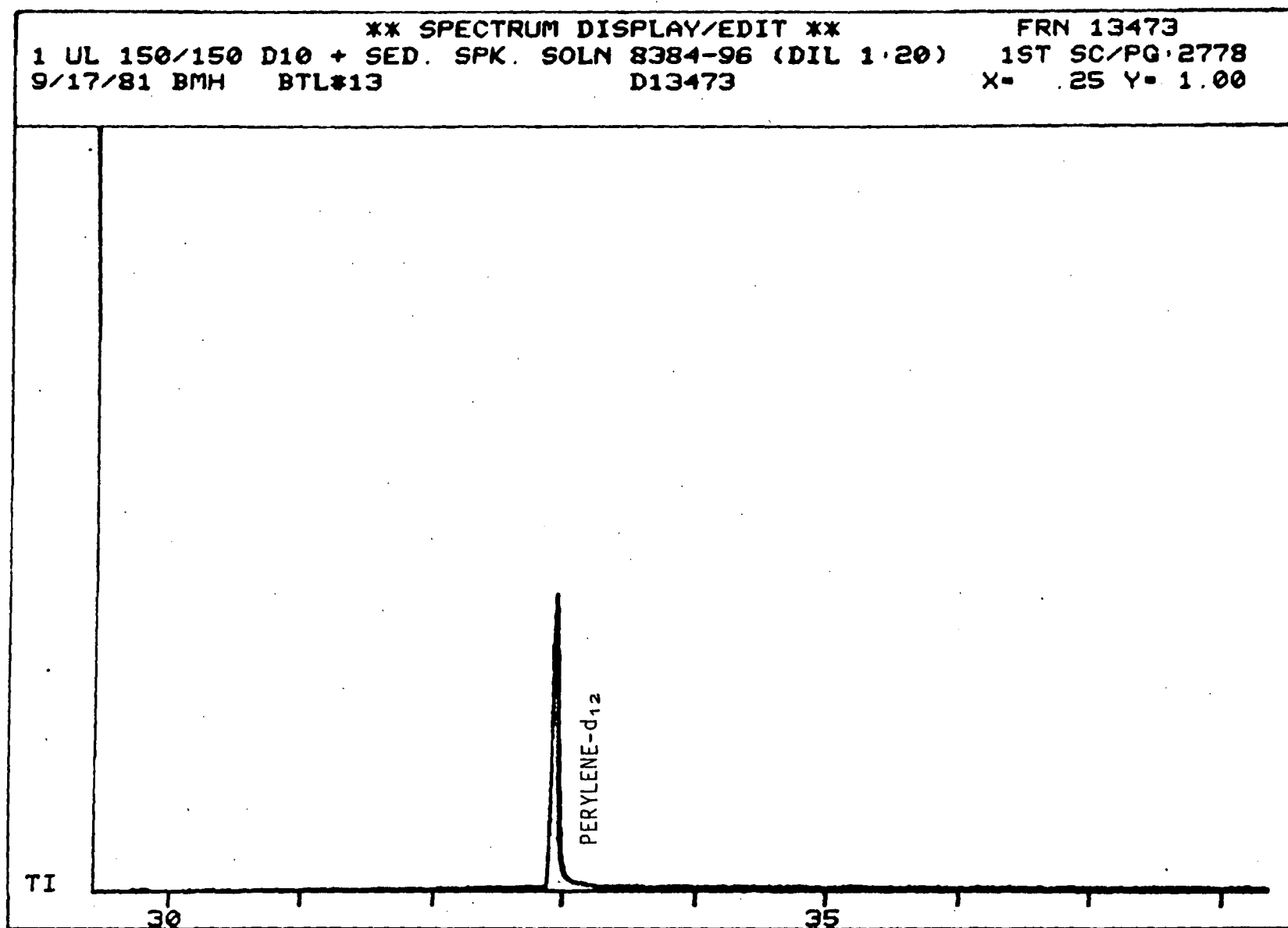


Figure J-6 (continued)

LT-C

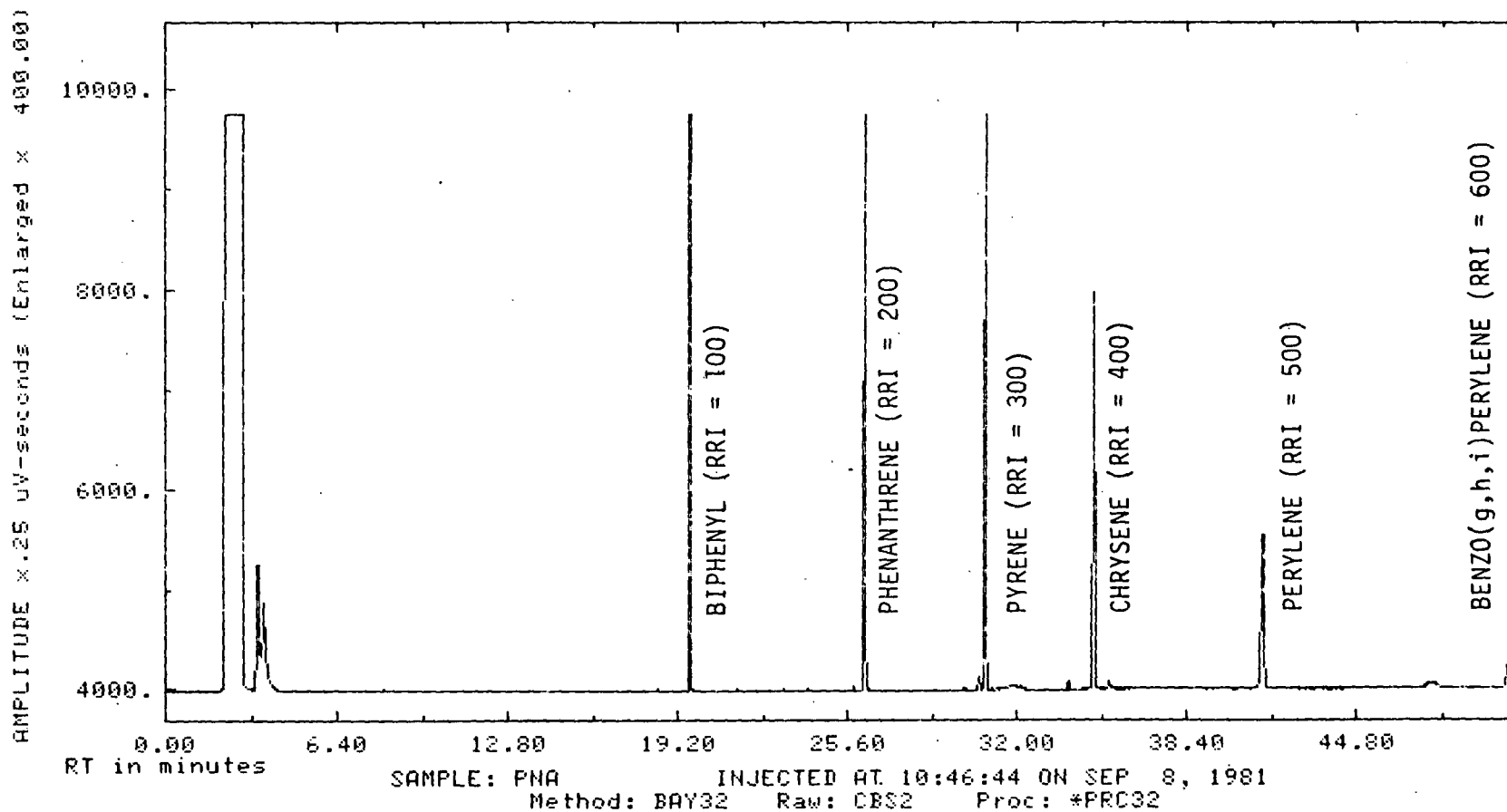


Figure J-7. Capillary GC/FID chromatogram of PNA standard used to determine relative retention indices of chromatographable compounds present in effluent and sediment extracts.

J-18

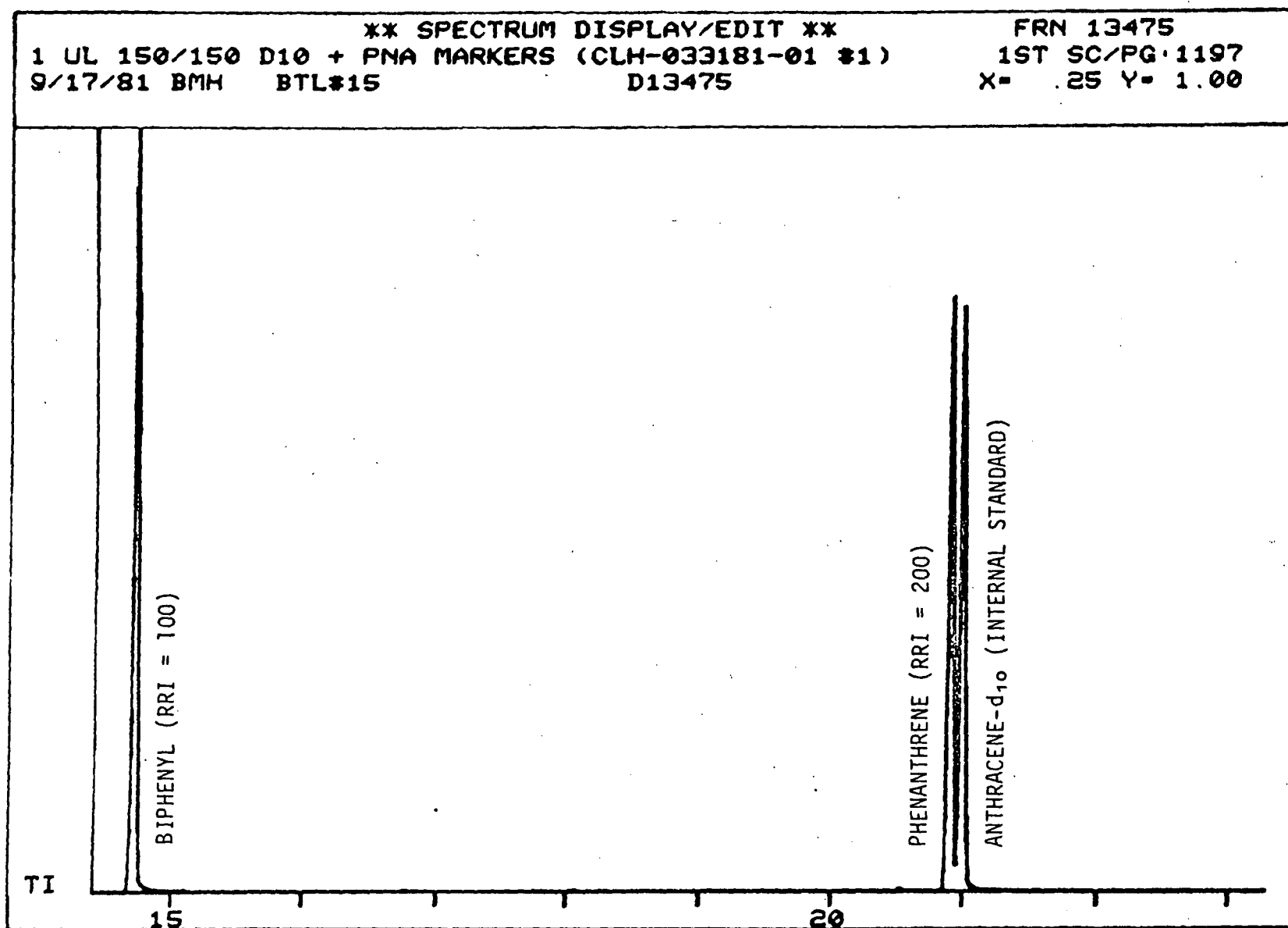


Figure J-8. Total ion chromatogram of the analysis of the PNA standard used to determine relative retention indices of chromatographable components present in effluent and sediment extracts.

61-2

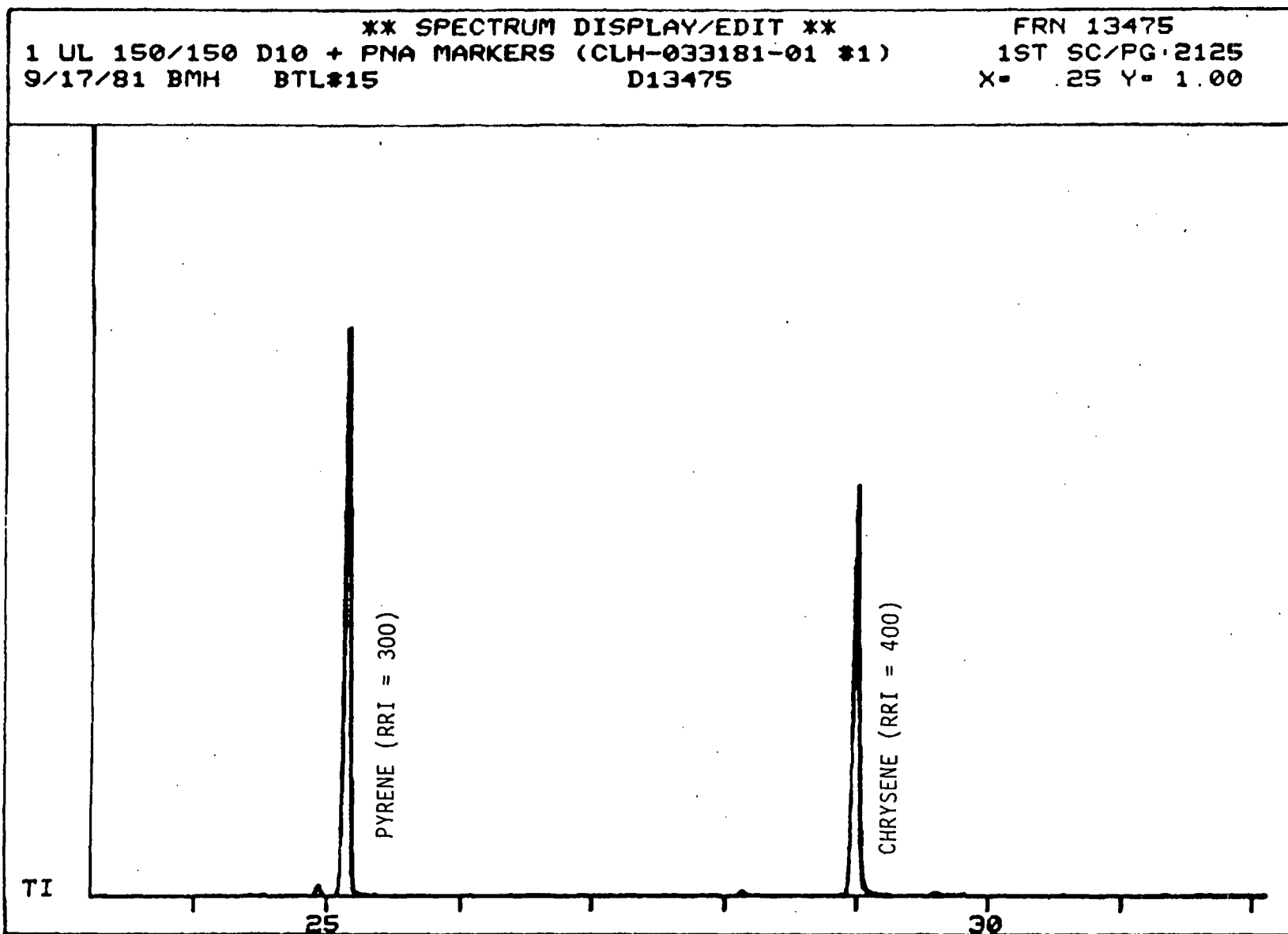


Figure J-8 (continued)

**** SPECTRUM DISPLAY/EDIT ****
1 UL 150/150 D10 + PNA MARKERS (CLH-033181-01 #1)
9/17/81 BMH BTL#15 D13475

FRN 13475
1ST SC/PG 3054
X= .25 Y= 1.00

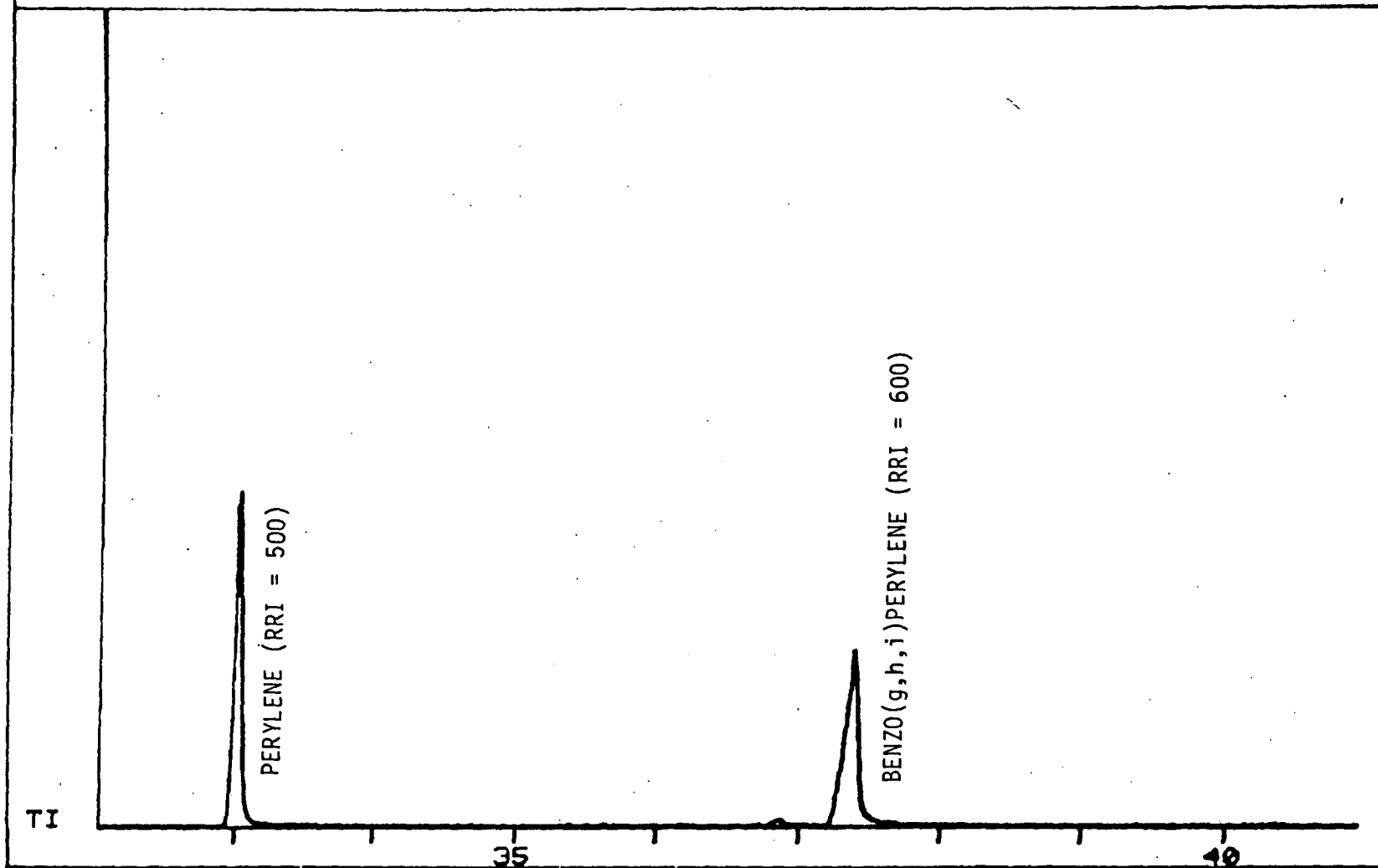


Figure J-8 (continued)

J-21

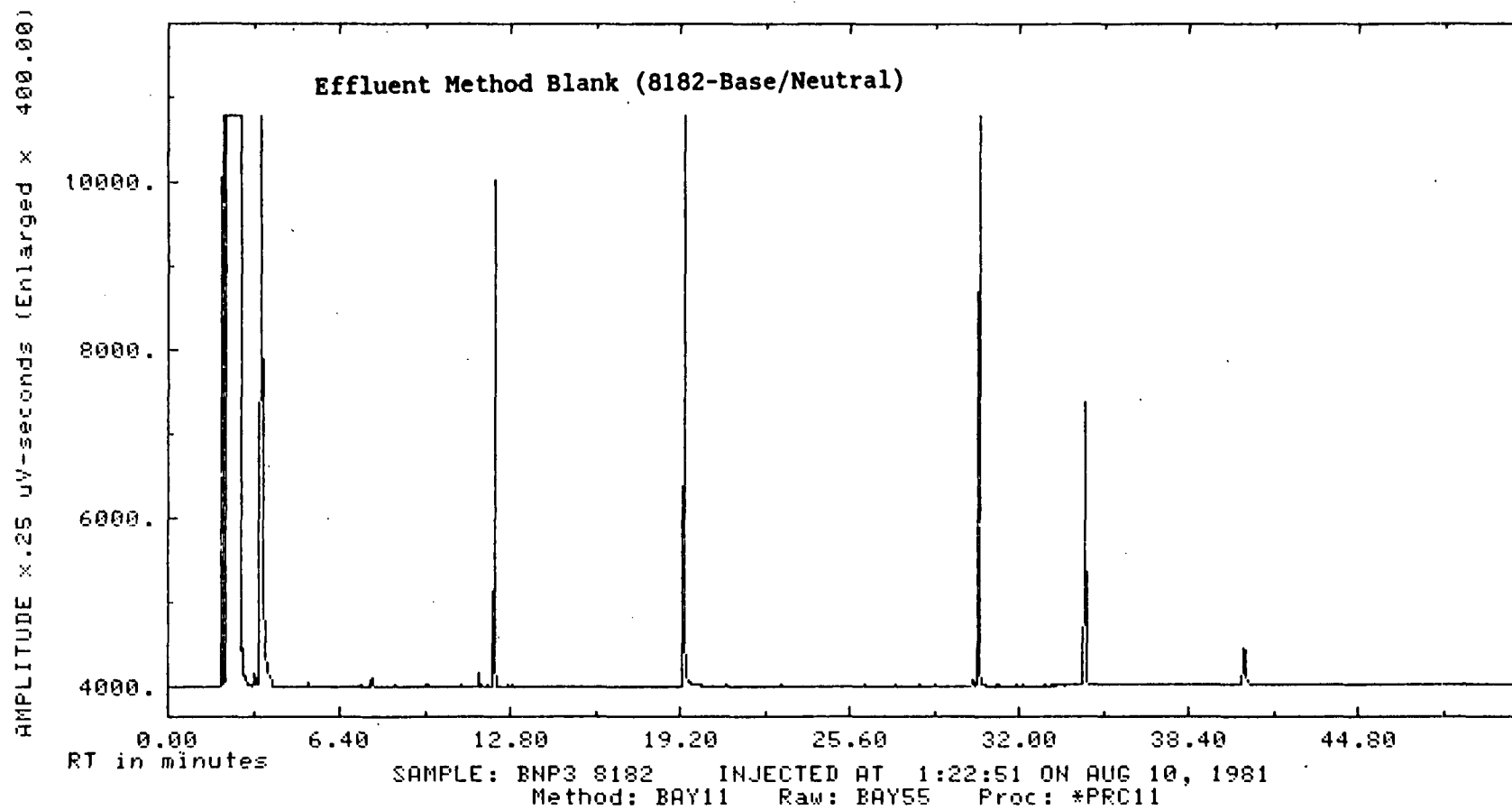


Figure J-9. Capillary GC/FID analysis of base/neutral extractable method blank.

** BATCH PROCESSOR RECONSTRUCT ** FRN 13119
1 UL 125/125 D10 + 8182-BNP3 (METHOD BLANK) 8/13/81 BMH1ST SC/PG: 1
50(4)-280(8) BTL#6 D13119 X= .25 Y= 1.00

Effluent Method Blank (8182-Base/Neutral)

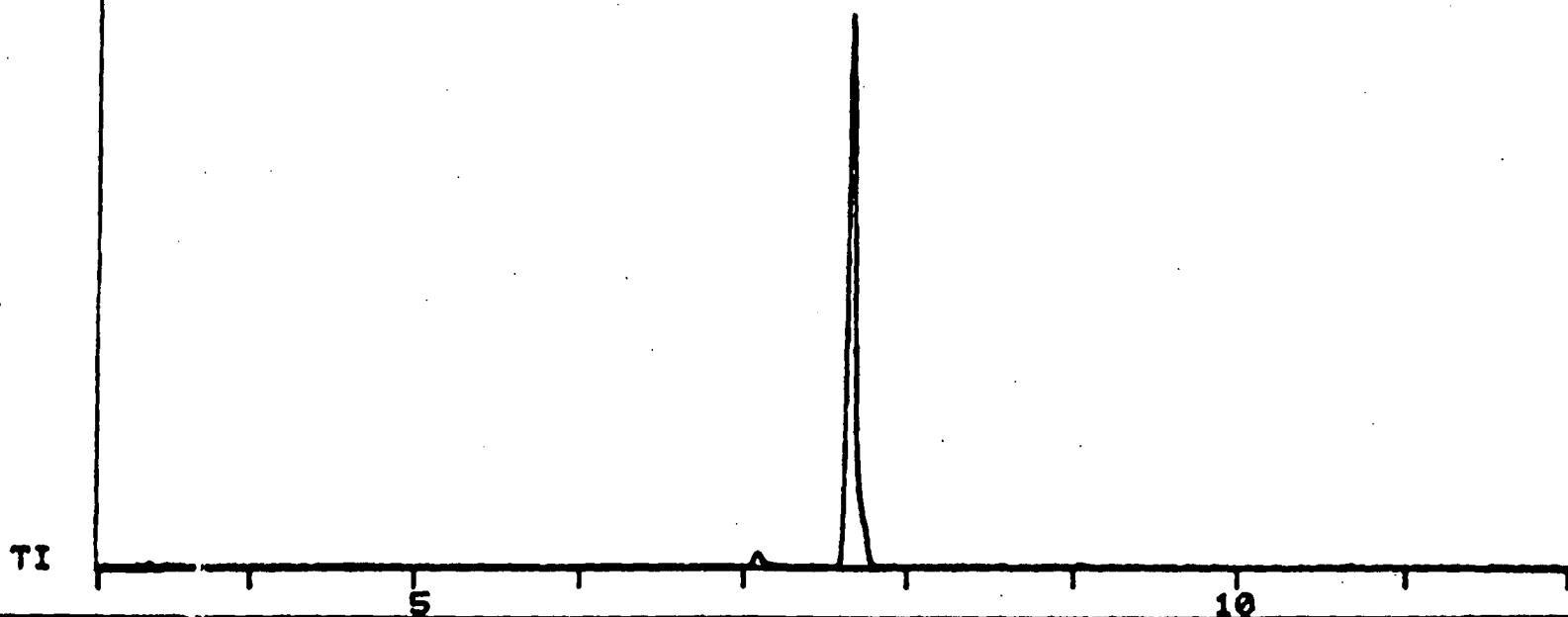
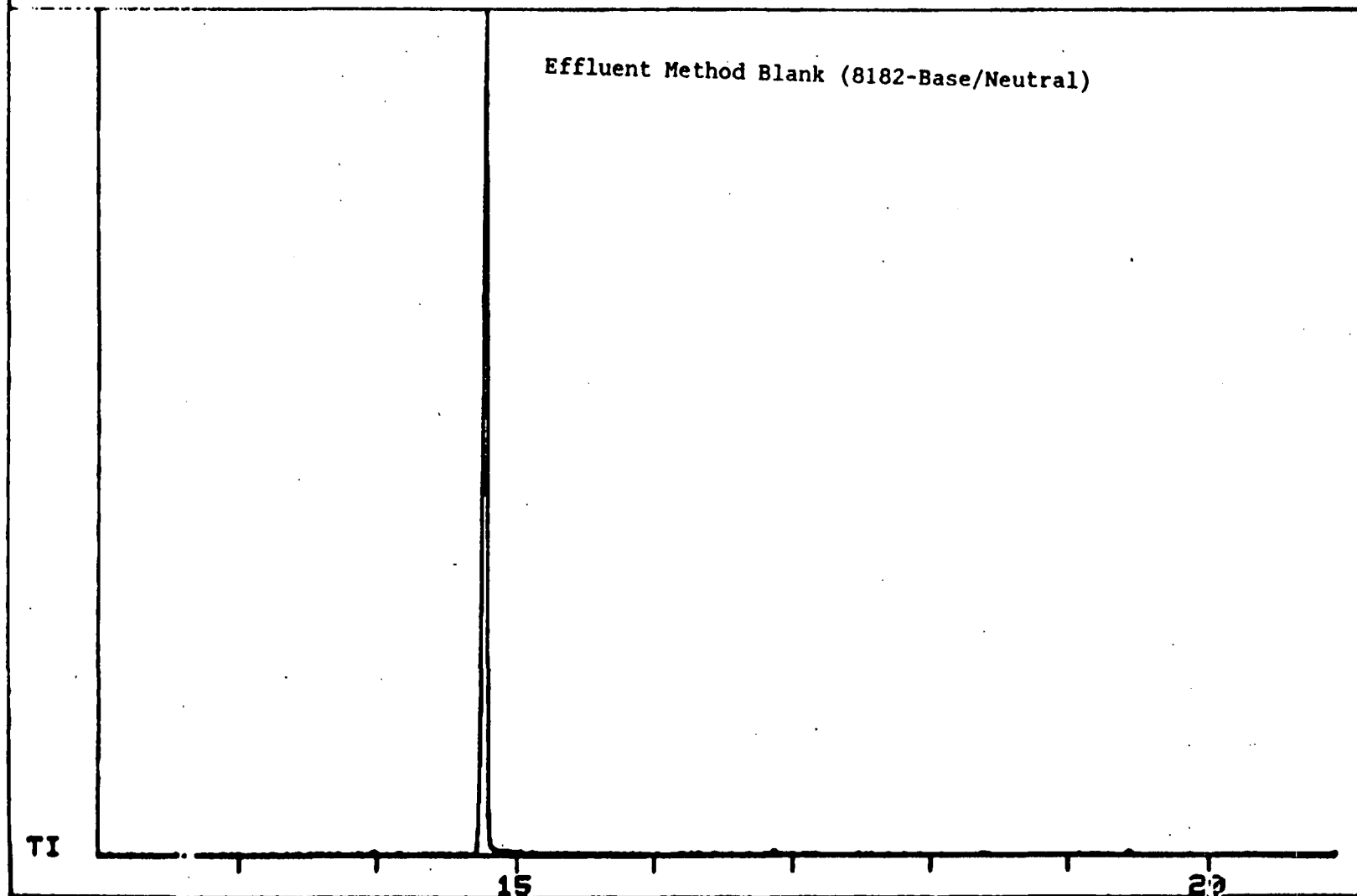


Figure J-10. Capillary GC/MS analysis of base/neutral extractables method blank.

** BATCH PROCESSOR RECONSTRUCT ** FRN 13119
1 UL 125/125 D10 + 8182-BNP3 (METHOD BLANK) 8/13/81 BMH1ST SC/PG: 933
50(4)-280(8) BTL#6 D13119 X= .25 Y= 1.00



J-23

Figure J-10 (continued)

** BATCH PROCESSOR RECONSTRUCT **
1 UL 125/125 D10 + 8182-BNP3 (METHOD BLANK) 8/13/81 BMH1ST SC/PG:1865
50(4)-280(8) BTL#6 D13119 X= .25 Y= 1.00

Effluent Method Blank (8182-Base/Neutral)

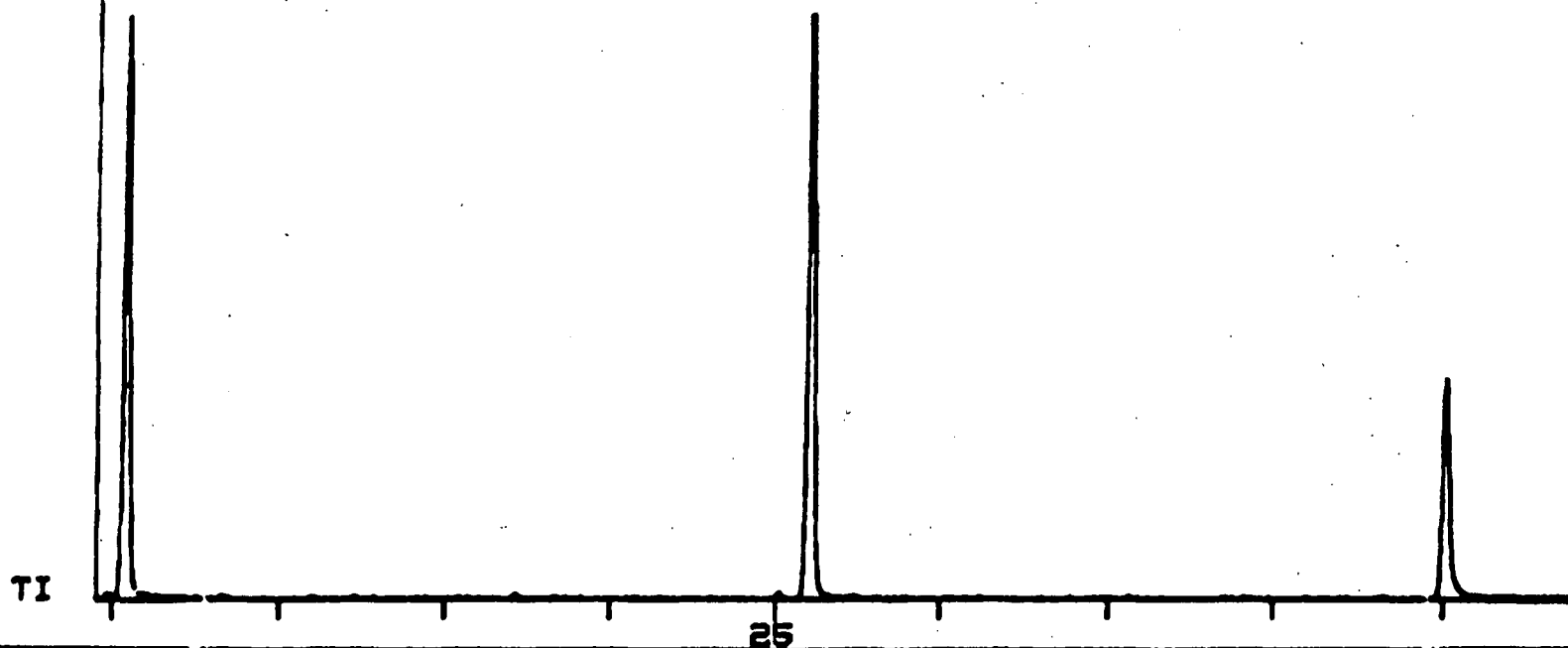


Figure J-10 (continued)

** BATCH PROCESSOR RECONSTRUCT **
1 UL 125/125 D10 + 8182-BNP3 (METHOD BLANK) 8/13/81 BMH1ST SC/PG:2797
50(4)-280(8) BTL#6 D13119 X= .25 Y= 1.00

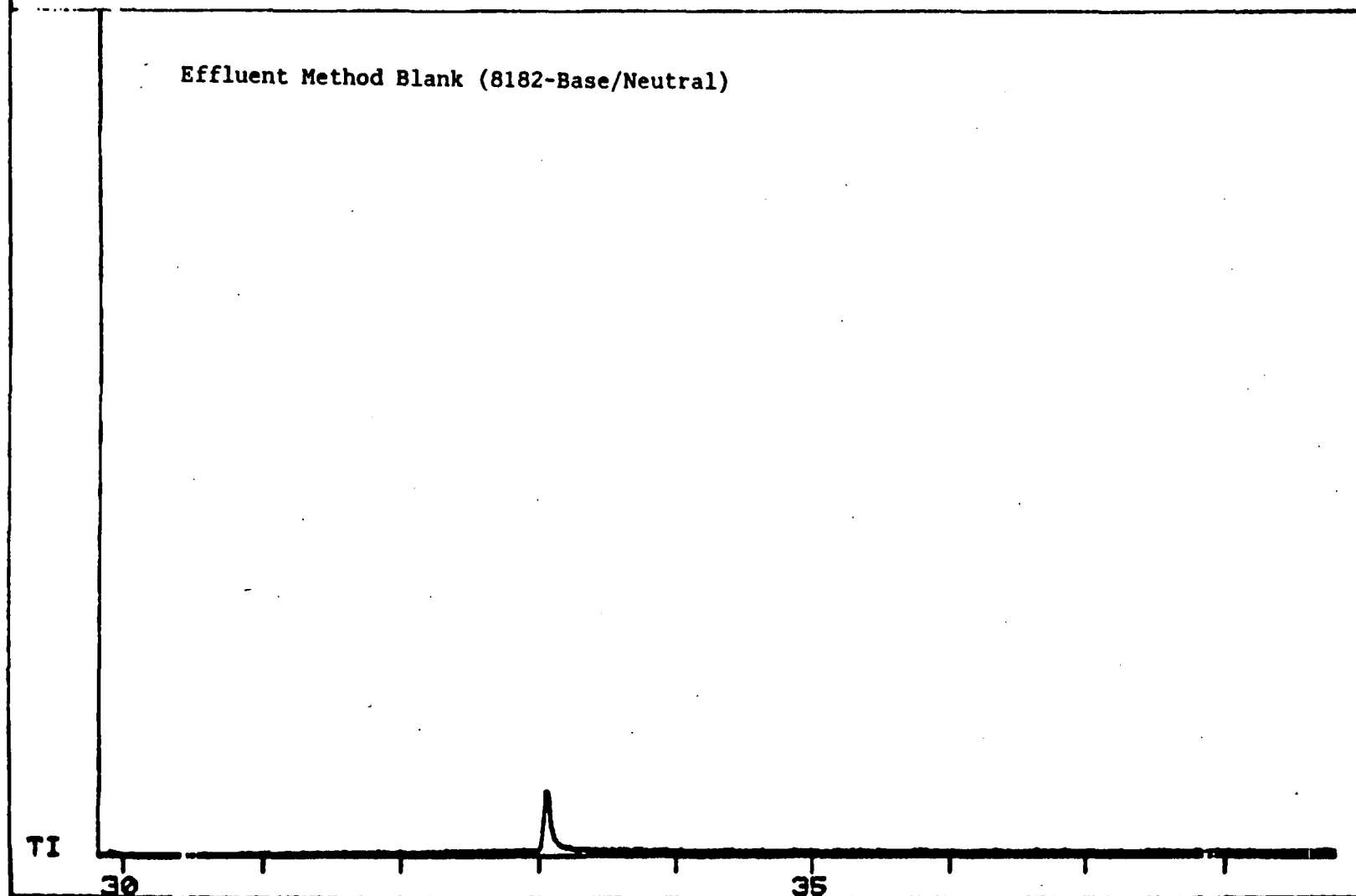


Figure J-10 (continued)

1 UL 125/125 D10 + 8182-BNP3 (METHOD BLANK) 8/13/81 BMH1ST SC/PG:3729
50(4)-280(8) BTL#6 D13119 X= .25 Y= 1.00

Effluent Method Blank (8182-Base/Neutral)

TI

40

45

Figure J-10 (continued)

1 UL 125/125 D10 + 8182-BNP3 (METHOD BLANK) 8/13/81 BMH1ST SC/PG:4661
50(4)-280(8) BTL#6 D13119 X= .25 Y= 1.00

Effluent Method Blank (8182-Base/Neutral)

TI

50

Figure J-10 (continued)

TABLE J-1. RELATIVE RETENTION INDICES CALCULATED FROM CAPILLARY GC/FID ANALYSIS OF BASE/NEUTRAL EXTRACTABLE METHOD BLANK SHOWN IN FIGURE J-9.

PROCESSED FILE: DUCK Effluent Method Blank (8182-Base/Neutral)
 RAW FILE: BAY55
 SAMPLE NAME: BNP3 8182

RELATIVE RETENTION VALUES

OUTPUT FILE: OPF2

PEAK#	AREA	TIME	INDEX
1	21630.5	2.081	***
2	6.11290E+07	2.18125	***
3	246692.	2.75327	***
4	11625.3	3.46934	***
5	111007.	3.52884	***
6	32282.2	12.2459	***
7	53139.2	19.3884	***
8	56226.6	30.51	299.118
9	26793	34.5198	398.021
10	5852.75	40.5205	497.537

TABLE J-2. MASS SPECTRAL IDENTIFICATION OF MAJOR COMPONENTS IN THE
BASE/NEUTRAL EXTRACTABLES METHOD BLANK SHOWN IN FIGURE J-10.

Peak No.	Retention time, min	Compound	Peak area, total counts	Amount detected, µg/L	Amount spiked, µg/L	Recovery, percent
<u>Internal standard^b</u>						
3		Anthracene-d ₁₀	167,912	100	-	-
<u>Recovery standard^{c,d}</u>						
1	7.65	1,2-Dichlorobenzene-d ₄	215,895	94.6	118.1	80.1
2	14.77	Biphenyl-d ₁₀	258,677	91.3	101.6	89.9
4	25.22	Pyrene-d ₁₀	178,348	102	99.3	102.7
5	29.03	Chrysene-d ₁₂	74,747	73.4	85.8	85.5
6	33.05	Perylene-d ₁₂	29,947	46.9	90.6	51.8
<u>Organics detected</u>						
None detected						

^aIncludes all substances that were found at or above a 3% threshold on the BATCH peak identification program in the Hewlett-Packard system and are greater than 1.0 µg/L relative to the anthracene-d₁₀ internal standard.

^bAnthracene-d₁₀ internal standard added immediately prior to analysis; 50 mg/L injected equivalent to 100 µg/L in original sample.

^cDeuterated recovery standard (spike), added to original effluent before extraction.

^dQuantitated relative to area of major ion for authentic standard.

TABLE J-3. RELATIVE RETENTION INDICES CALCULATED FROM
CAPILLARY GC/FID ANALYSIS OF ACID EXTRACT-
ABLES METHOD BLANK SHOWN IN FIGURE J-11.

PROCESSED FILE: *PRC11 Effluent Method Blank (8182-Acid)
RAW FILE: BAY7

SAMPLE NAME: ANP3 8182

RELATIVE RETENTION VALUES

OUTPUT FILE: OFF1

PEAK#	AREA	TIME	INDEX
1	75042.7	2.13093	***
2	5.34174E+07	2.23125	***
3	95870.	3.56955	***
4	15534.5	10.9323	***
5	66845.9	33.3729	369.284
6	2978.37	34.508	397.242
7	1360.87	34.8883	404.406
8	2366.53	35.0637	407.286
9	1449.5	35.4073	412.928
10	5032.31	35.551	415.288
11	2220.89	36.0917	424.165
12	4349.09	36.3	427.586
13	1949.12	40.5427	497.253

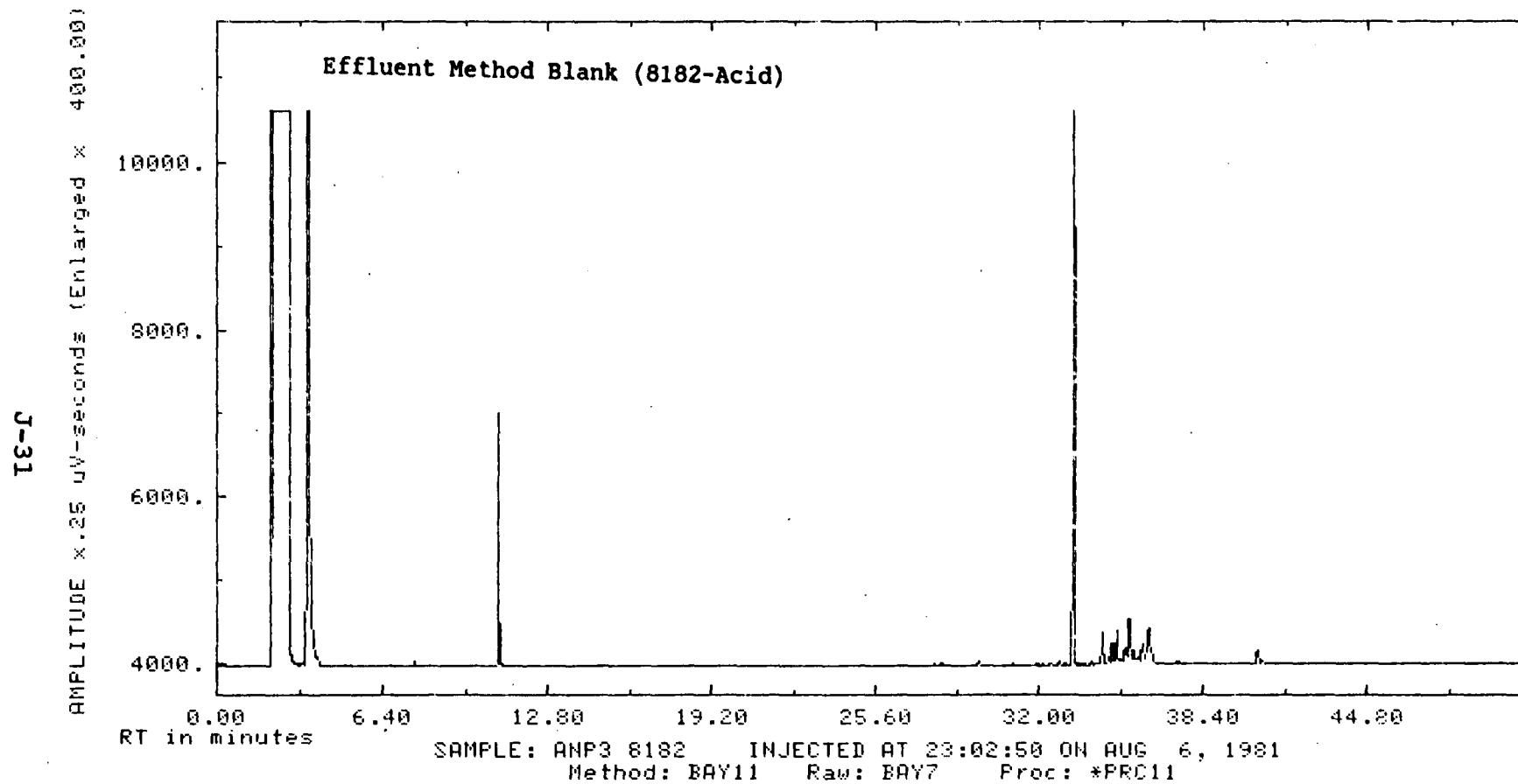


Figure J-11. Capillary GC/FID analysis of acid extractables method blank.

** BATCH PROCESSOR RECONSTRUCT **
1 UL 100/100 D10 + 8182 ANP3 (METHOD BLANK) 8/12/81 BMH1ST SC/PG: 1
50(4)-280(8) BTL#3 D13092 X= .25 Y= 1.00

Effluent Method Blank (8182-Acid)

TI

5

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Figure J-12. Capillary GC/MS analysis of acid extractables method blank.

** BATCH PROCESSOR RECONSTRUCT ** FRN 13092
1 UL 100/100 D10 + 8182 ANP3 (METHOD BLANK) 8/12/81 BMH1ST SC/PG: 933
50(4)-280(8) BTL#3 D13092 X= .25 Y= 1.00

Effluent Method Blank (8182-Acid)

TI

15

20

Figure J-12 (continued)

J-33

** BATCH PROCESSOR RECONSTRUCT **
1 UL 100/100 D10 + 8182 ANP3 (METHOD BLANK) 8/12/81 BMH1ST SC/PG:1865
50(4)-280(8) BTL#3 D13092 X= .25 Y= 1.00

Effluent Method Blank (8182-Acid)

TI

25

Figure J-12 (continued)

J-34

** BATCH PROCESSOR RECONSTRUCT **
1 UL 100/100 D10 + 8182 ANP3 (METHOD BLANK) 8/12/81 BMH1ST SC/PG:2797
50(4)-280(8) BTL#3 D13092 X= .25 Y= 1.00

Effluent Method Blank (8182-Acid)

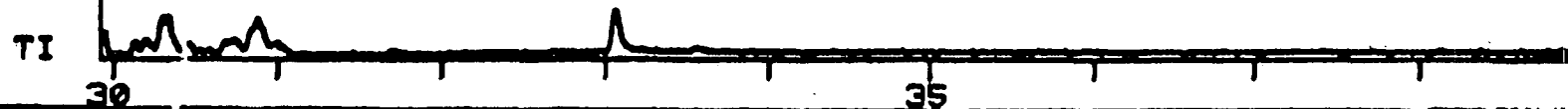


Figure J-12 (continued)

** BATCH PROCESSOR RECONSTRUCT ** FRN 13092
1 UL 100/100 D10 + 8182 ANP3 (METHOD BLANK) 8/12/81 BMH1ST SC/PG:3729
50(4)-280(8) BTL#3 D13092 X= .25 Y= 1.00

Effluent Method Blank (8182-Acid)

TI

40

45

Figure J-12 (continued)

** BATCH PROCESSOR RECONSTRUCT ** FRN 13092
1 UL 100/100 D10 + 8182 ANP3 (METHOD BLANK) 8/12/81 BMH1ST SC/PG:4661
50(4)-280(8) BTL#3 D13092 X= .25 Y= 1.00

Effluent Method Blank (8182-Acid)

TI

50

Figure J-12 (continued)

TABLE J-4. MASS SPECTRAL IDENTIFICATION OF MAJOR COMPONENTS IN THE ACID EXTRACTABLES METHOD BLANK SHOWN IN FIGURE J-12

Peak No.	Retention time, min	Compound	Peak area, total counts	Amount detected, µg/L	Amount spiked, µg/L	Recovery, percent
<u>Internal standard^b</u>						
2	21.10	Anthracene-d ₁₀	218,022	100	-	-
<u>Recovery standard^{c,d}</u>						
1	6.50	Phenol-d ₅	47,129	57.4	223	25.7
<u>Organics detected^{e,f}</u>						
3	28.42	Hexanedioic acid, dioctyl ester	260,618	120		
4	29.03	Chrysene-d ₁₂ (spiking compound)	11,234	5.2		
5	29.73	Phthalate	5,177	2.4		
6	29.92	Phthalate	11,376	5.2		
7	30.28	Phthalate	1,963	0.9		
8	30.87	Phthalate	15,063	6.9		
9	33.05	Perylene-d ₁₂ (spiking compound)	16,717	7.7		
Total concentration ^g				148.3		

^a Includes all substances that were found at or above a 2% threshold on the BATCH peak identification program in the Hewlett-Packard system and greater than 0.9 µg/L relative to the anthracene-d₁₀ internal standard.

^b Anthracene-d₁₀ internal standard added immediately prior to analysis; 50 mg/L injected equivalent to 100 µg/L in original sample.

^c Deuterated recovery standard (spike), added to original effluent before extraction.

^d Quantitated relative to area of major ion for authentic standard.

^e Estimated concentration based on area of total ion relative to that of anthracene-d₁₀, internal standard.

^f Tentative identification, not confirmed with authentic standards.

^g Summation of concentrations of detected compounds, excluding standards.

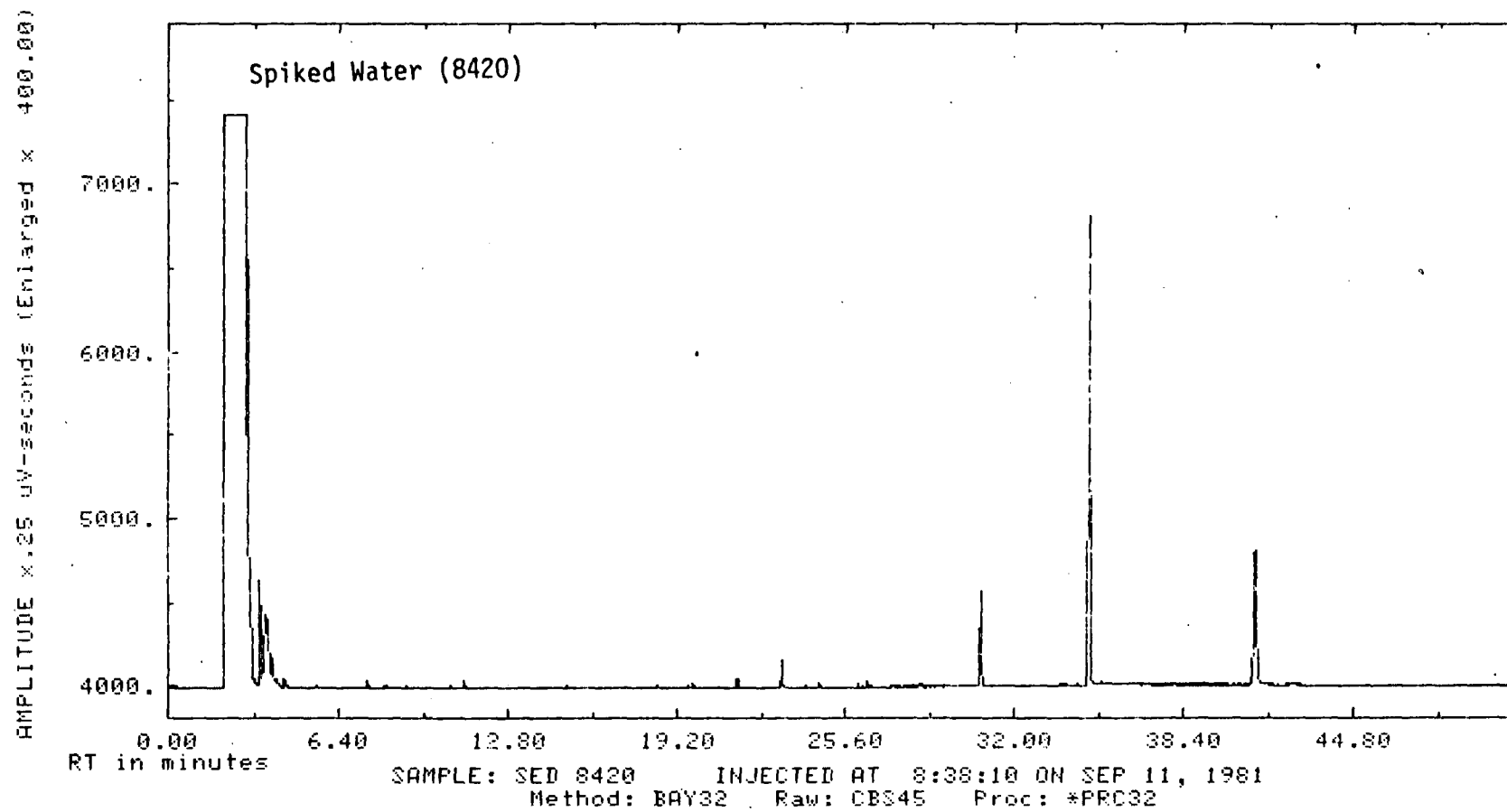


Figure J-13. Capillary GC/FID chromatogram of the extract of a freeze-dried spiked water sample.

** BATCH PROCESSOR RECONSTRUCT ** FRN 13456
1 UL 150/150 D10 + 8420-SED (WATER SPIKE) 9/16/81 BMH 1ST SC/PG: 1
50(4)-280(8) BTL#28 D13456 X= .25 Y= 1.00

Spiked Water (8420)

TI

5

10

Figure J-14. Capillary GC/MS chromatogram of the extract of a freeze-dried spiked water sample.

** BATCH PROCESSOR RECONSTRUCT **

FRN 13456

1 UL 150/150 D10 + 8420-SED (WATER SPIKE) 9/16/81 BMH 1ST SC/PG: 933
50(4)-280(8) BTL#28 D13456 X= .25 Y= 1.00

Spiked Water (8420)

TI

15

20

Figure J-14 (continued)

J-41

** BATCH PROCESSOR RECONSTRUCT **
1 UL 150/150 D10 + 8420-SED (WATER SPIKE) 9/16/81 BMH 1ST SC/PG:1865
50(4)-280(8) BTL#28 D13456 X= .25 Y= 1.00

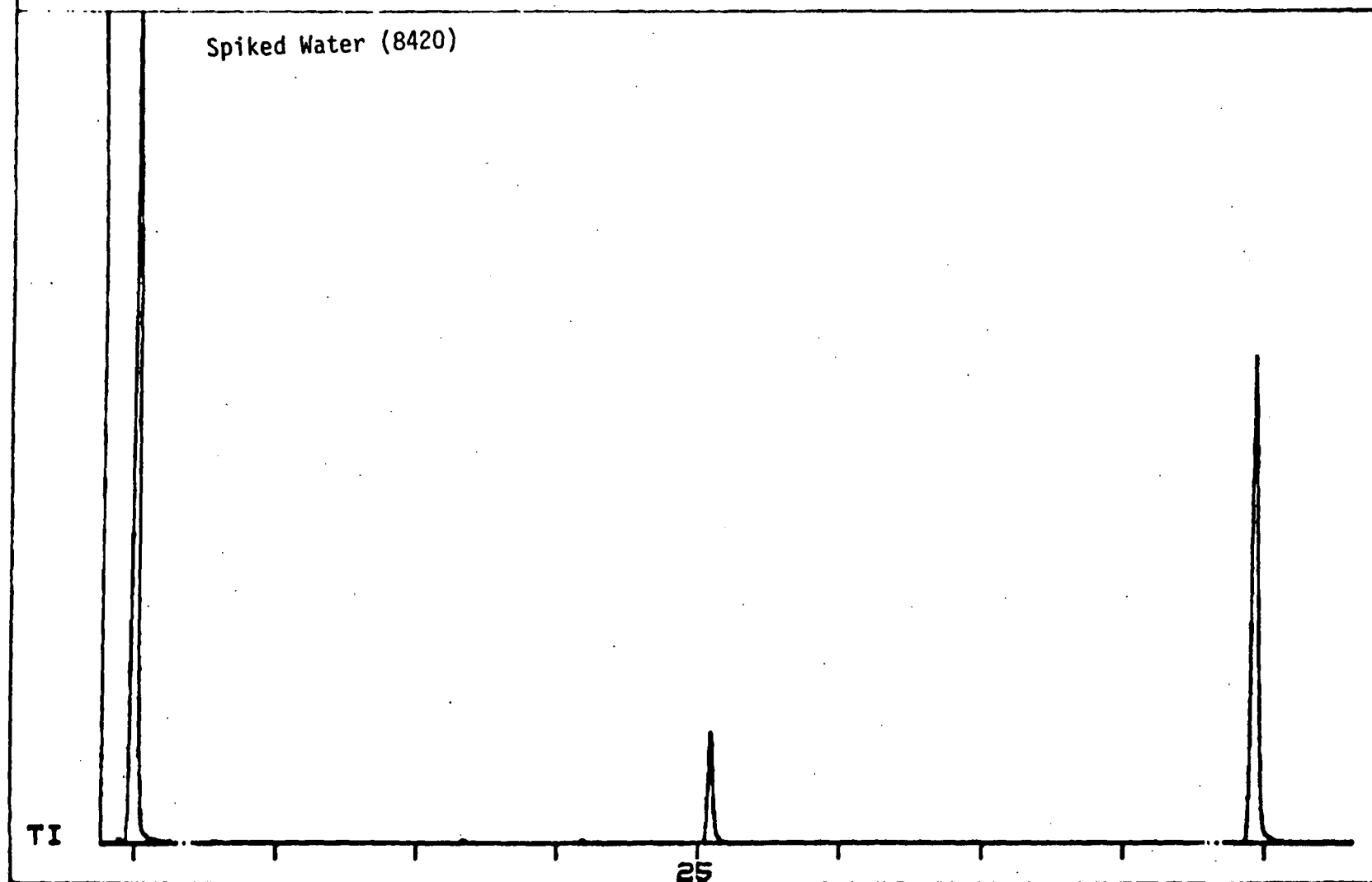


Figure J-14 (continued)

J-42

** BATCH PROCESSOR (RECONSTRUCT) ** FRN 13456
1 UL 150/150 D10 + 8420-SED (WATER SPIKE) 9/16/81 BMH 1ST SC/PG:2797
50(4)-280(8) BTL#28 D13456 X= .25 Y= 1.00

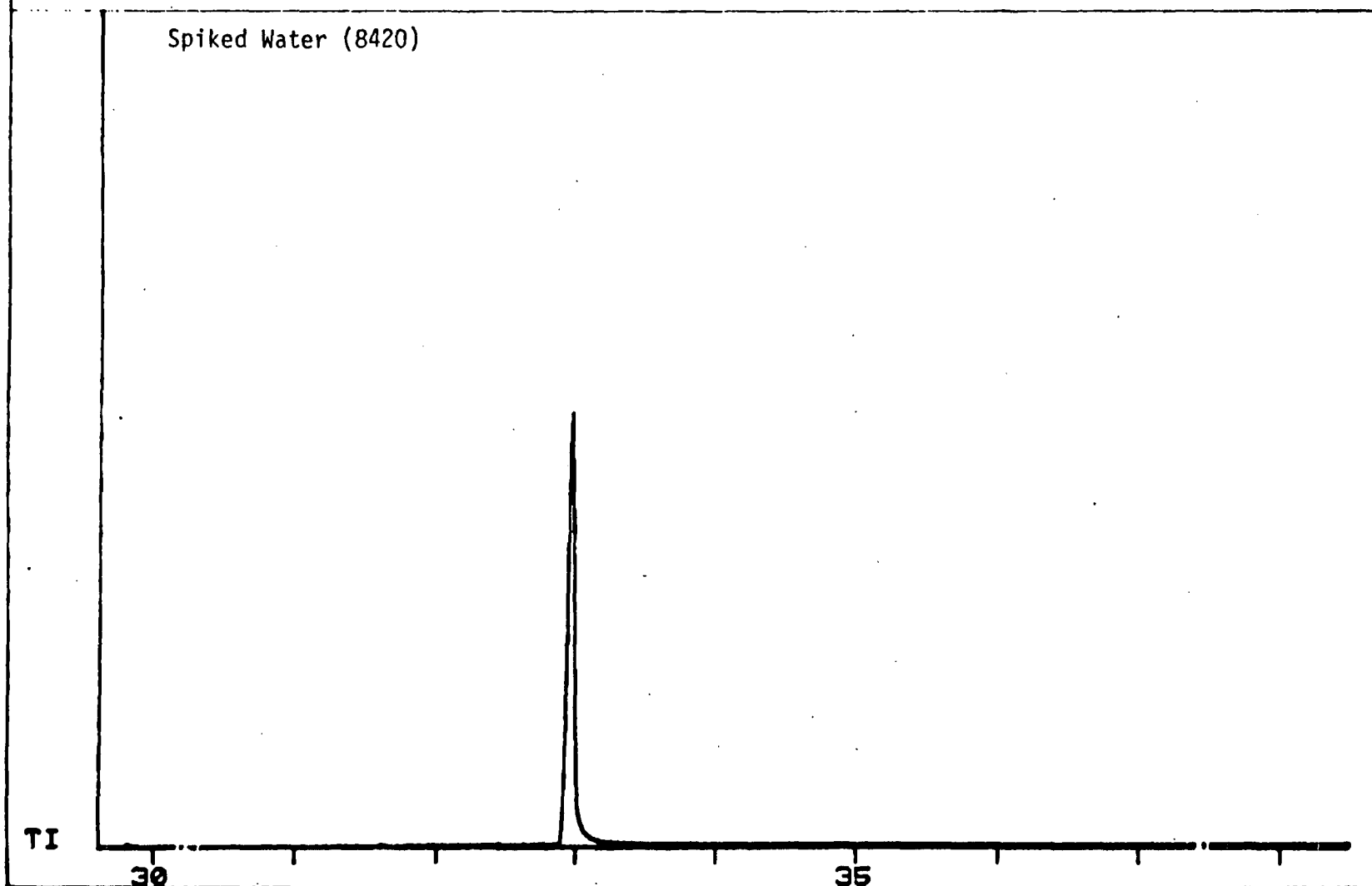


Figure J-14 (continued)

J-43

1 LL 150/150 D10 + 8420-SED (WATER SPIKE) 9/16/81 BMH 1ST SC/PG:3729
50(4)-280(8) BTL#28 D13456 X= .25 Y= 1.00

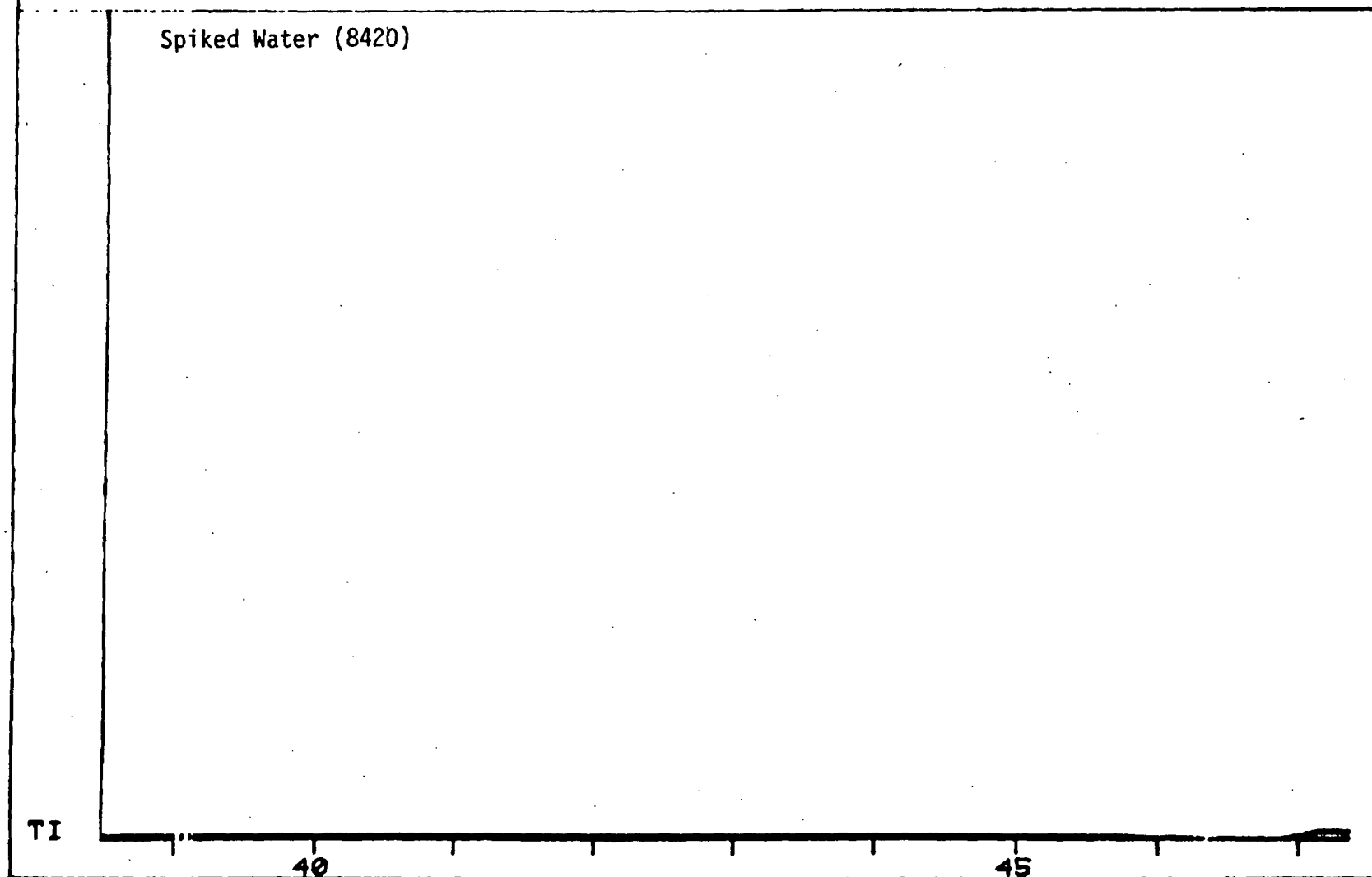


Figure J-14 (continued)

J-44

** BATCH PROCESSOR RECONSTRUCT ** FRN 13456
1 UL 150/150 D10 + 8420-SED (WATER SPIKE) 9/16/81 BMH 1ST SC/PG:4661
50(4)-280(8) BTL#28 D13456 X= .25 Y= 1.00

Spiked Water (8420)

TI

50

Figure J-14 (continued)

J-45

TABLE J-5. RELATIVE RETENTION INDICES CALCULATED
FROM DATA SHOWN IN FIGURE J-13.

PROCESSED FILE: *PRC32 Spiked Water (8420)
RAW FILE: CBS45

SAMPLE NAME: SED 8420

RELATIVE RETENTION VALUES

OUTPUT FILE: OPF3

PEAK#	AREA	TIME	INDEX
1	2.34044E+06	2.23411	***
2	6.89901E+07	2.27708	***
3	2248.11	3.48056	***
4	8423.87	3.71458	***
5	4343.87	30.7576	298.194
6	24572.4	34.8507	397.821
7	11943.5	41.1267	497.89

TABLE J-6. RECOVERIES OBSERVED FOR SPIKING COMPOUNDS ADDED TO DISTILLED WATER BEFORE FREEZE DRYING

Peak No.	Retention time, min	Compound	Peak area, total counts	Amount detected, µg/g	Amount spiked, µg/g	Recovery, percent
<u>Internal standard^b</u>						
		Anthracene-d ₁₀		33.3	-	-
<u>Recovery standard^{c,d}</u>						
		Phenol-d ₅		<0.36	35.6	<1.0
		1,2-Dichlorobenzene-d ₄		<0.11	35.9	<0.3
		Biphenyl-d ₁₀		0.24	33.5	0.7
		Pyrene-d ₁₀		3.36	34.3	9.8
		Chrysene-d ₁₂		24.9	33.7	74.0
		Perylene-d ₁₂		30.6	34.0	90.0
<u>Organics detected</u>						
None detected						

^aIncludes all substances that were found at or above a 1% threshold on the BATCH peak identification program in the Hewlett-Packard system and are greater than 0.03 µg/g relative to the anthracene-d₁₀ internal standard.

^bAnthracene-d₁₀ internal standard added immediately prior to analysis; 50 mg/L injected equivalent to 33.3 µg/L in original sample.

^cDeuterated recovery standard (spike), added to original sediment before freeze drying.

^dQuantitated relative to area of major ion for authentic standard.