

Electronic Supplementary Information

Structure–activity studies of non-steroid analogues structurally-related to neuroprotective estrogens[†]

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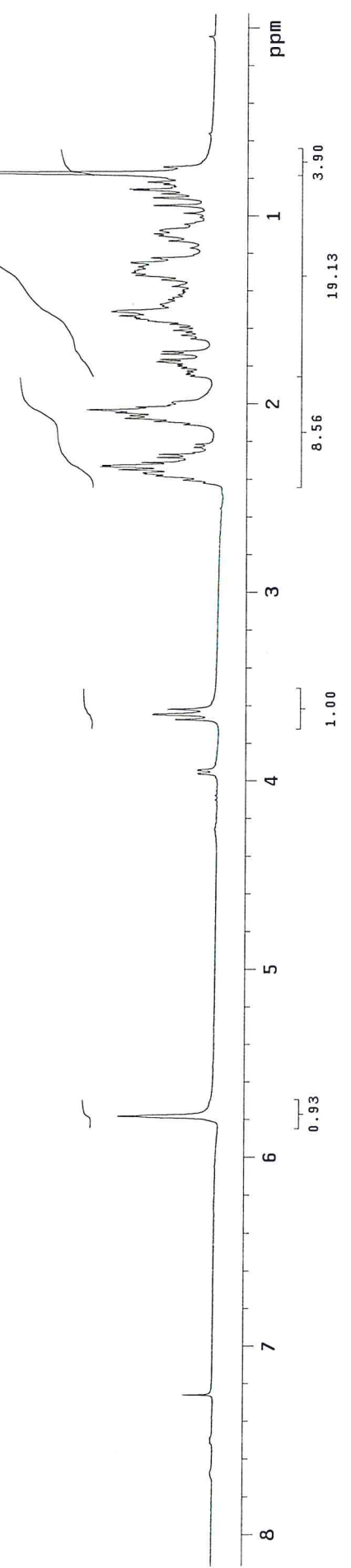
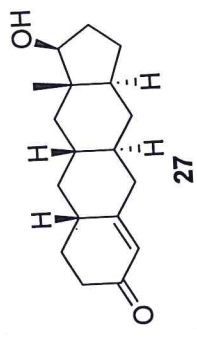
Copies of ¹H and ¹³C NMR spectra for compounds 27 to 59.

2143

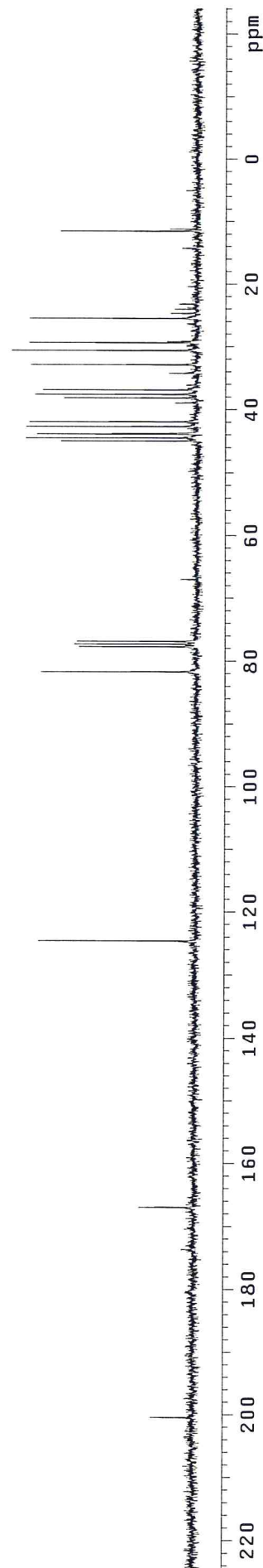
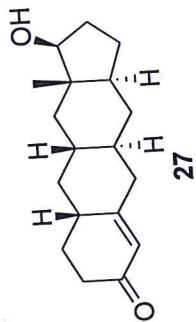
2143-2

300mg minor

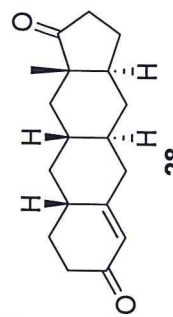
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2	1734.975	5.782	41	532.328	1.774	9.9	269.987	0.900	80	10.6	
3	1188.867	3.962	42	528.757	1.762	9.4	263.669	0.879	81	9.3	
4	1187.493	3.958	43	519.966	1.733	9.3	258.175	0.860	82	13.7	
5	1183.098	3.943	44	516.120	1.720	9.1	256.252	0.854	83	14.3	
6	1181.724	3.938	45	495.243	1.651	4.5	254.054	0.847	84	7.8	
7	1101.786	3.672	46	489.749	1.632	6.0	251.307	0.838	85	7.3	
8	1094.094	3.646	47	485.628	1.619	5.3	248.835	0.829	86	8.9	
9	1092.995	3.643	48	482.057	1.607	7.3	244.989	0.817	87	11.5	
10	1085.029	3.616	49	477.112	1.590	6.3	230.430	0.768	88	100.0	
11	725.169	2.417	50	472.443	1.575	7.9	221.090	0.737	89	8.9	
12	720.774	2.402	51	463.927	1.546	13.3					
13	714.455	2.381	52	462.004	1.540	13.5					
14	710.884	2.369	53	459.257	1.531	16.0					
15	709.236	2.364	54	452.664	1.509	17.2					
16	704.566	2.348	55	444.148	1.480	9.0					
17	699.621	2.332	56	441.126	1.470	9.4					
18	697.973	2.326	57	433.160	1.444	8.1					
19	693.029	2.310	58	429.864	1.433	7.4					
20	684.788	2.282	59	425.468	1.418	6.6					
21	679.843	2.266	60	421.897	1.406	5.8					
22	676.546	2.255	61	419.700	1.399	5.9					
23	668.580	2.228	62	417.777	1.392	5.8					
24	663.635	2.212	63	412.008	1.373	7.5					
25	632.319	2.107	64	401.569	1.338	9.1					
26	627.375	2.091	65	394.702	1.315	13.4					
27	622.705	2.075	66	390.581	1.302	13.9					
28	618.584	2.062	67	388.109	1.293	13.5					
29	613.914	2.046	68	380.967	1.270	12.9					
30	609.244	2.030	69	374.099	1.247	14.1					
31	604.574	2.015	70	366.407	1.221	10.9					
32	601.278	2.004	71	350.475	1.168	4.6					
33	597.707	1.992	72	339.212	1.131	8.1					
34	555.403	1.851	73	331.245	1.104	9.7					
35	552.381	1.841	74	327.949	1.093	10.4					
36	549.909	1.833	75	322.455	1.075	9.5					
37	546.887	1.823	76	312.566	1.042	5.6					
38	542.492	1.808	77	301.028	1.003	3.1					
39	539.470	1.798	78	294.710	0.982	5.7					



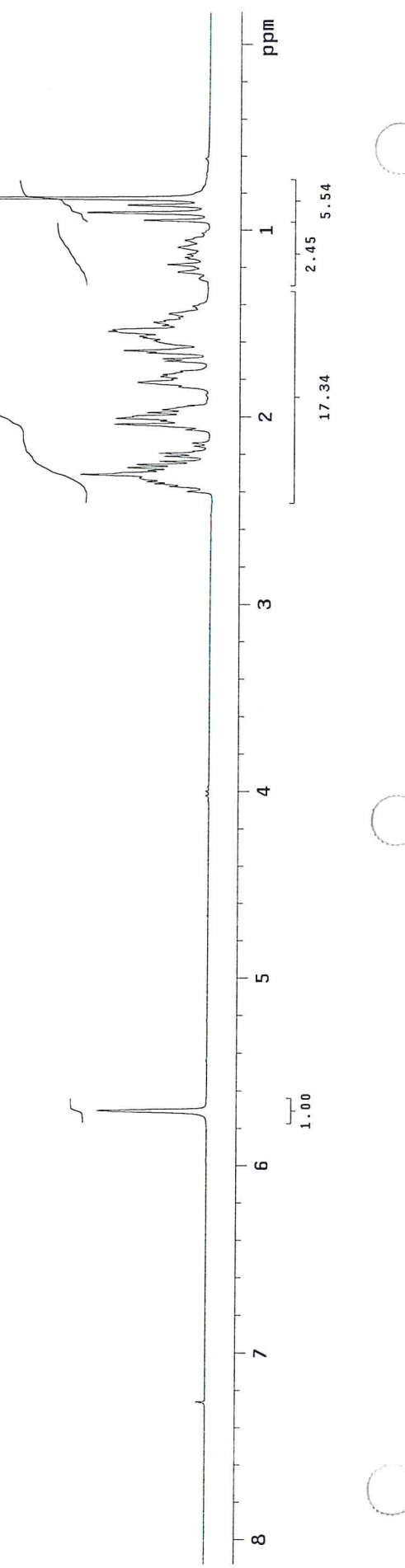
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1	15121.172	200.421	6.8
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3	9395.198	124.527	25.0
4	6157.732	81.617	24.7
5	5857.691	77.640	18.7
6	5825.626	77.215	19.4
7	5793.560	76.790	19.0
8	3386.361	44.884	21.6
9	3350.860	44.413	27.2
10	3305.052	43.806	25.4
11	3293.600	43.654	13.5
12	3213.436	42.592	27.1
13	3157.322	41.848	26.6
14	2871.023	38.054	21.1
15	2829.796	37.507	25.7
16	2775.972	36.794	24.5
17	2473.640	32.786	26.4
18	2304.152	30.540	29.5
19	2207.955	29.265	26.7
20	1915.931	25.394	26.6
21	863.497	11.445	21.8



2153 (28)

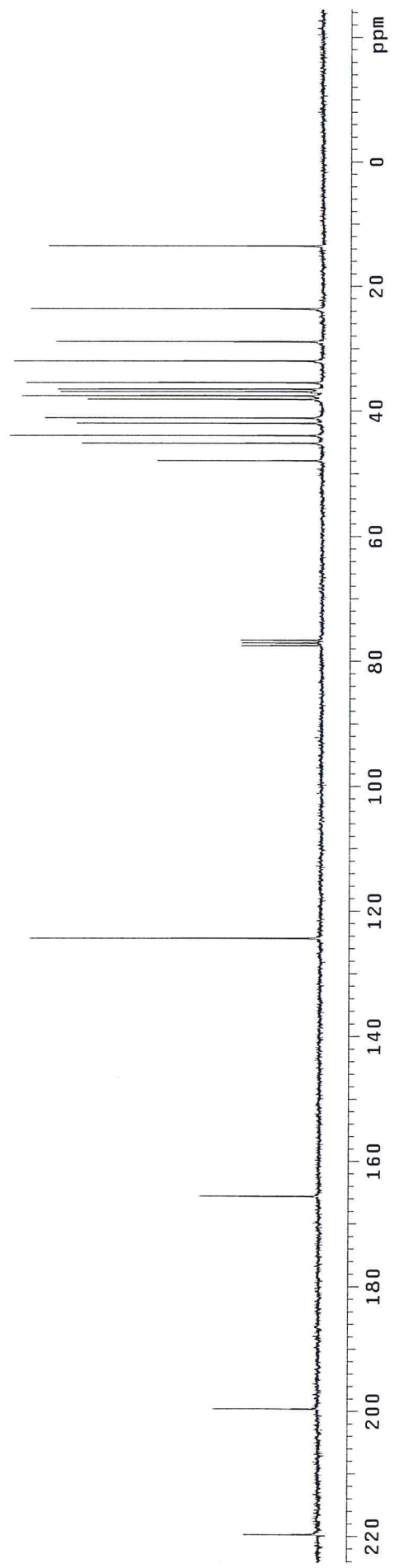
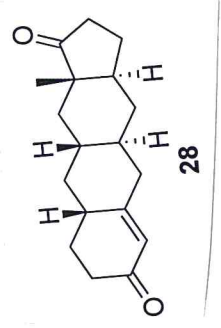


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1	2178.345	1.6	40	469.970	11.5
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3	719.400	3.8	42	459.806	16.0
4	710.884	6.7	43	452.664	7.9
5	706.764	9.0	44	447.719	9.3
6	703.467	10.3	45	444.423	7.7
7	697.149	11.4	46	439.753	5.4
8	692.204	20.9	47	434.259	6.9
9	685.337	10.1	48	424.644	2.6
10	680.942	13.4	49	421.623	3.0
11	675.997	11.9	50	376.846	2.1
12	670.778	8.2	51	366.407	5.4
13	662.537	7.5	52	354.870	7.1
14	658.965	2.196	53	346.904	2.7
15	657.592	2.192	54	345.530	4.0
16	654.570	3.0	55	343.332	4.3
17	646.329	2.154	56	338.388	4.0
18	641.385	2.138	57	327.400	5.5
19	619.958	2.066	58	315.313	4.3
20	611.442	2.038	59	304.050	1.6
21	606.497	2.021	60	283.447	11.0
22	602.102	2.007	61	271.086	19.9
23	599.080	1.997	62	258.724	13.5
24	593.037	1.976	63	247.736	100.0
25	588.092	1.960			
26	580.950	1.936			
27	551.557	1.838			
28	544.140	1.814			
29	538.921	1.796			
30	534.800	1.782			
31	531.504	1.771			
32	526.010	1.753			
33	509.802	1.699			
34	506.231	1.687			
35	496.891	1.656			
36	493.045	1.643			
37	478.486	1.595			
38	477.112	1.590			
39	472.717	1.575			



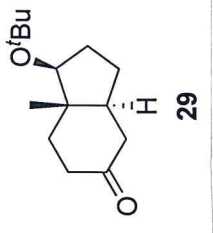
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INDEX	FREQUENCY	PPM	HEIGHT
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2	15058.013	199.584	17.0
3	12490.486	165.553	19.2
4	9378.992	124.312	46.6
5	5840.340	77.410	12.8
6	5808.275	76.985	12.7
7	5776.209	76.560	12.9
8	3609.501	47.842	26.3
9	3399.930	45.064	38.4
10	3308.315	43.850	50.0
11	3159.439	41.876	39.2
12	3095.308	41.026	44.3
13	2869.705	38.036	37.5
14	2827.333	37.474	48.0
15	2776.944	36.807	41.8
16	2747.169	36.412	42.2
17	2668.151	35.365	47.4
18	2407.046	31.904	49.4
19	2173.427	28.807	42.6
20	1774.899	23.525	46.6
21	1012.199	13.416	43.8

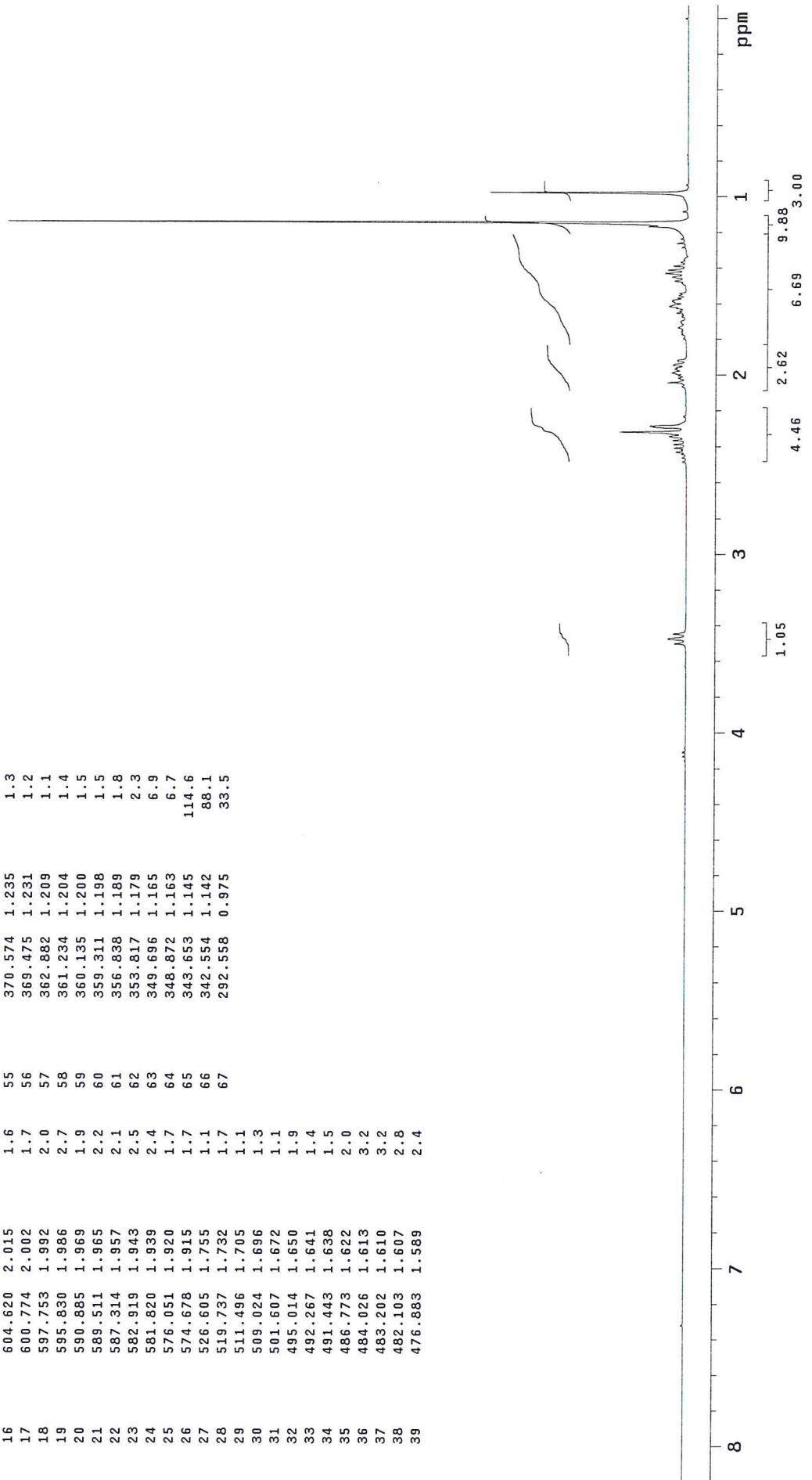


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1	1049.913	3.499	40	475.235	1.584	2.7	475.235	1.584
2	1041.672	3.472	41	473.312	1.577	2.7	473.312	1.577
3	1033.705	3.445	42	469.741	1.566	1.8	469.741	1.566
4	728.786	2.429	43	465.346	1.551	1.6	465.346	1.551
5	725.489	2.418	44	462.050	1.540	1.5	462.050	1.540
6	721.918	2.406	45	445.018	1.483	1.1	445.018	1.483
7	715.875	2.386	46	440.623	1.469	2.3	440.623	1.469
8	709.007	2.363	47	433.755	1.446	2.8	433.755	1.446
9	702.139	2.340	48	427.712	1.425	4.0	427.712	1.425
10	694.997	2.316	49	422.218	1.407	3.5	422.218	1.407
11	686.756	2.289	50	415.350	1.384	2.5	415.350	1.384
12	685.108	2.283	51	409.307	1.364	1.3	409.307	1.364
13	612.312	2.041	52	384.858	1.283	1.1	384.858	1.283
14	611.488	2.038	53	377.716	1.259	1.9	377.716	1.259
15	606.818	2.022	54	376.617	1.255	1.6	376.617	1.255
16	604.620	2.015	55	370.574	1.235	1.3	370.574	1.235
17	600.774	2.002	56	369.475	1.231	1.2	369.475	1.231
18	597.753	1.992	57	362.882	1.209	1.1	362.882	1.209
19	595.830	1.986	58	361.234	1.204	1.4	361.234	1.204
20	590.895	1.969	59	360.135	1.200	1.5	360.135	1.200
21	589.511	1.965	60	359.311	1.198	1.5	359.311	1.198
22	587.314	1.957	61	356.838	1.189	1.8	356.838	1.189
23	582.919	1.943	62	353.817	1.179	2.3	353.817	1.179
24	581.820	1.939	63	349.696	1.165	6.9	349.696	1.165
25	576.051	1.920	64	348.872	1.163	6.7	348.872	1.163
26	574.678	1.915	65	343.653	1.145	114.6	343.653	1.145
27	526.605	1.755	66	342.554	1.142	88.1	342.554	1.142
28	519.737	1.732	67	292.558	0.975	33.5	292.558	0.975
29	511.496	1.705						
30	509.024	1.696						
31	501.607	1.672						
32	495.014	1.650						
33	492.267	1.641						
34	491.443	1.638						
35	486.773	1.622						
36	484.026	1.613						
37	483.202	1.610						
38	482.103	1.607						
39	476.883	1.589						

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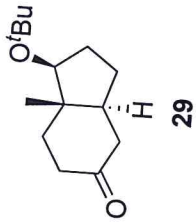


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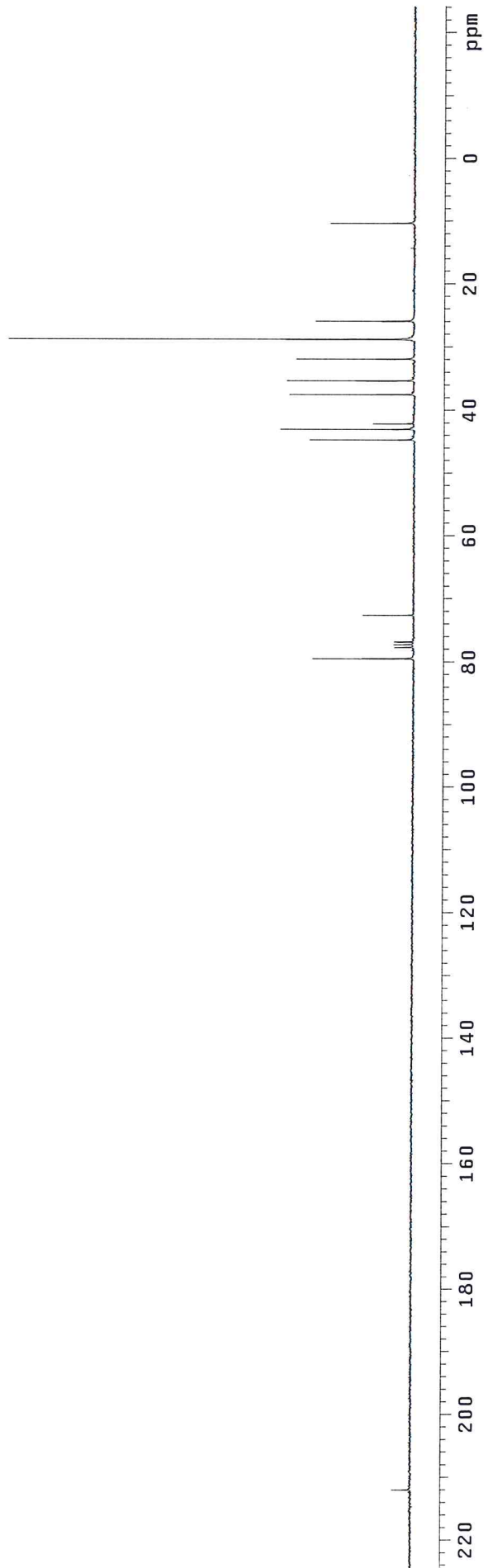


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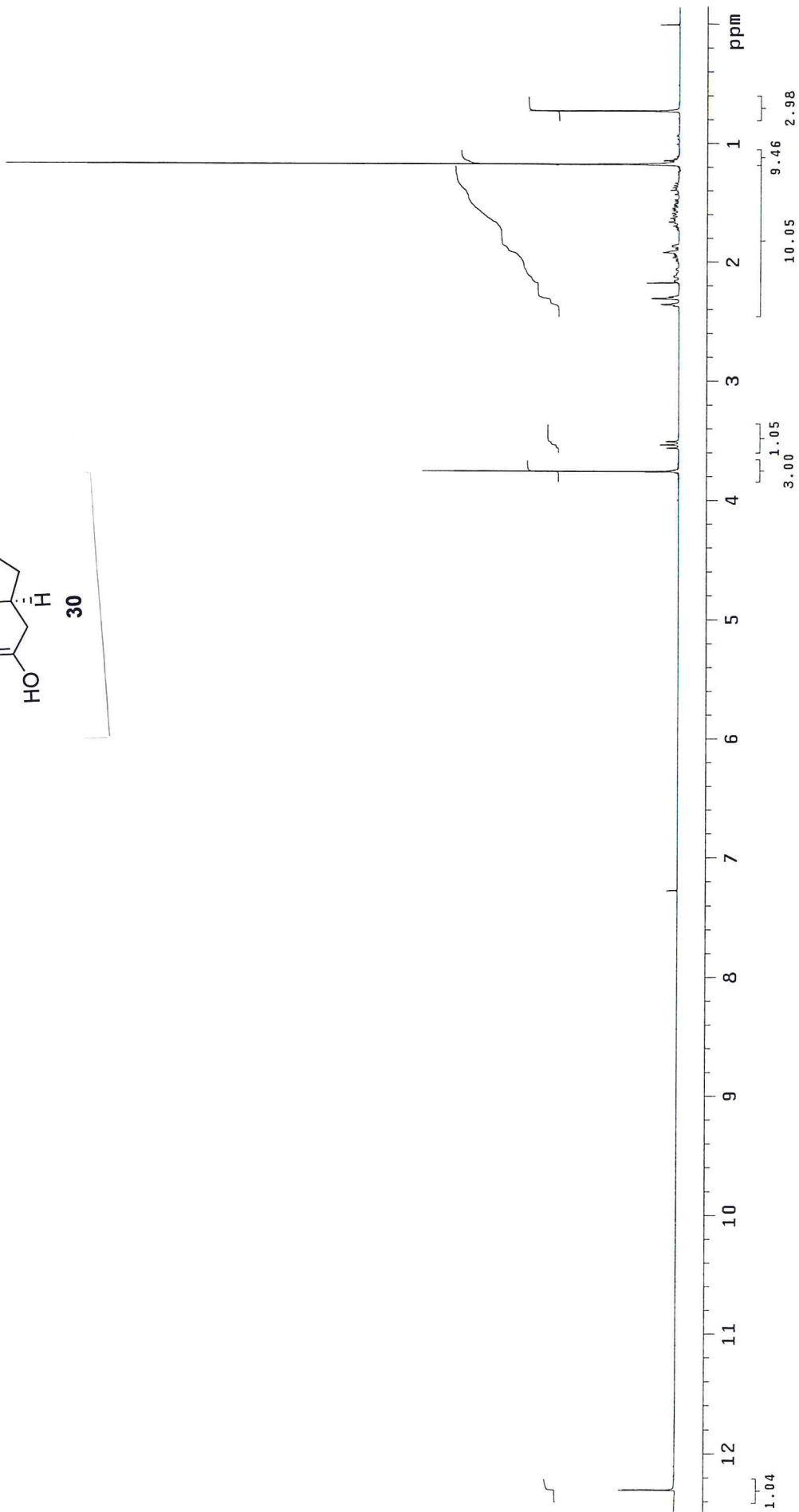
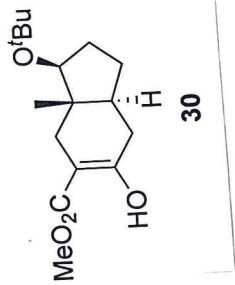
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1	15993.810	211.987	3.1
2	5995.114	79.461	16.2
3	5858.836	77.655	3.1
4	5826.771	77.230	3.2
5	5794.705	76.805	3.2
6	5475.196	72.570	8.2
7	3370.328	44.671	16.8
8	3243.211	42.987	21.5
9	3176.790	42.106	6.7
10	2826.360	37.462	20.0
11	2662.598	35.291	20.5
12	2404.929	31.876	18.9
13	2170.164	28.764	65.1
14	1953.722	25.895	15.9
15	775.317	10.276	13.6



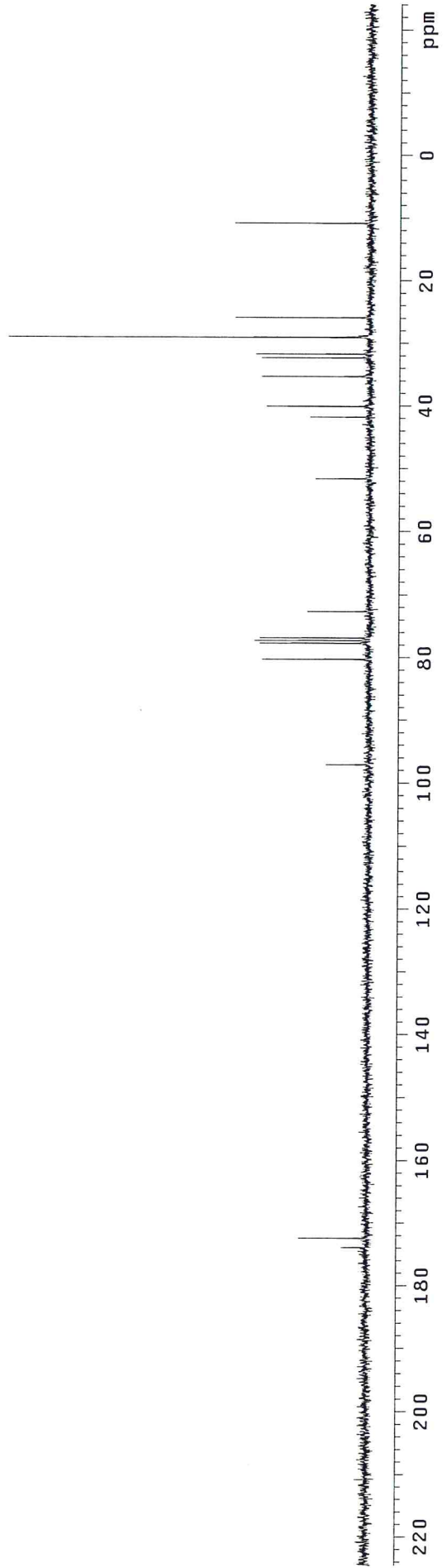
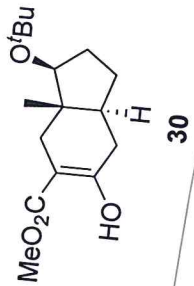
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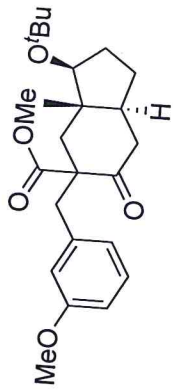
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1	3691.177	12.302	9.3
2	1126.280	3.754	42.4
3	651.045	2.170	5.5
4	350.795	1.169	111.5
5	216.191	0.721	25.0



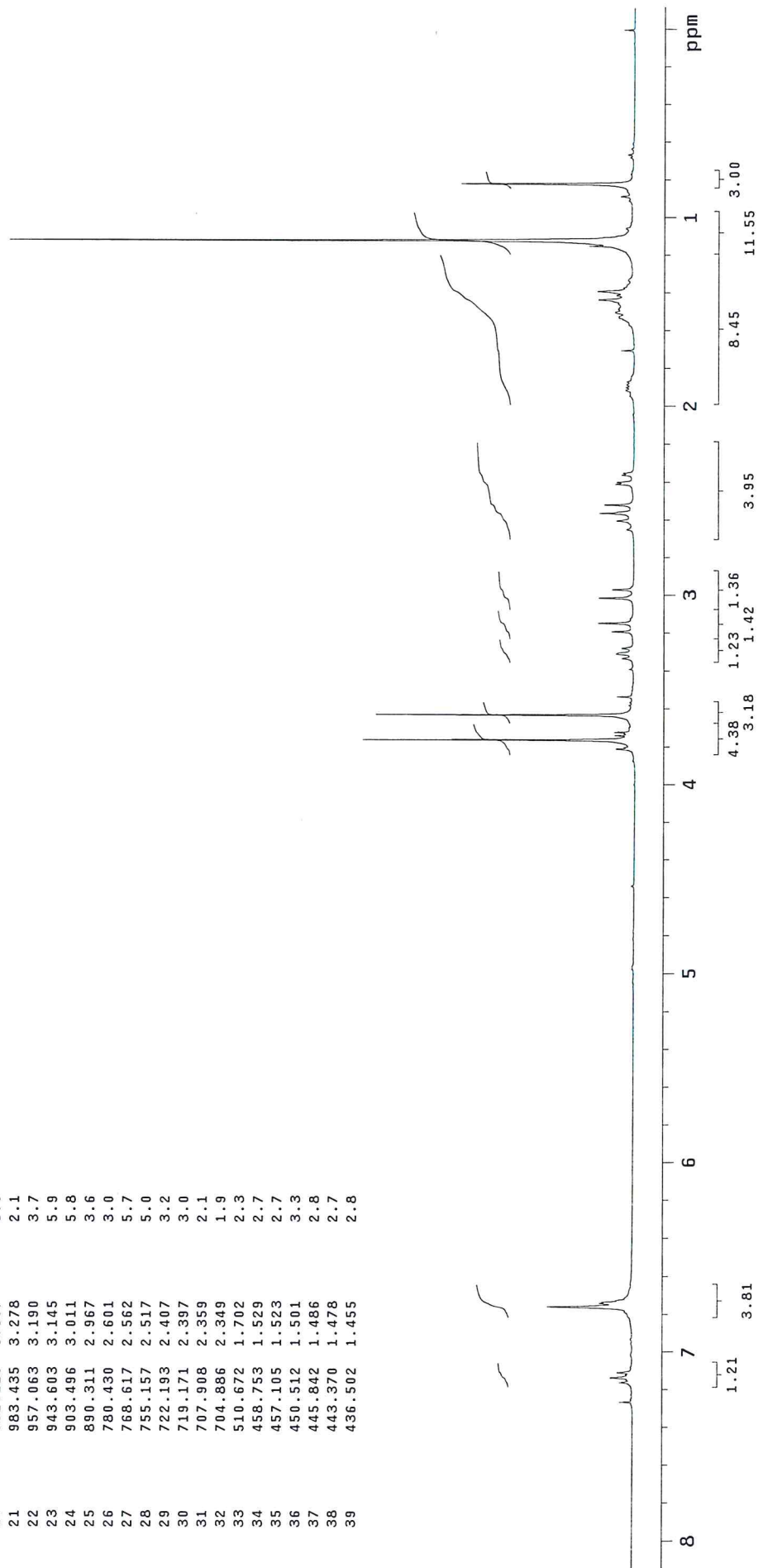
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1	13118.226	173.873	4.1
2	13007.142	172.401	10.9
3	7321.250	97.038	6.9
4	6051.229	80.205	17.1
5	5857.691	77.640	17.5
6	5825.625	77.215	18.4
7	5793.560	76.790	17.5
8	5476.341	72.585	10.0
9	3889.101	51.547	8.7
10	3147.015	41.712	9.6
11	3017.608	39.996	16.5
12	2656.871	35.215	17.4
13	2432.413	32.240	17.4
14	2385.460	31.618	18.3
15	2185.051	28.961	57.8
16	1947.996	25.819	21.6
17	810.817	10.747	21.7



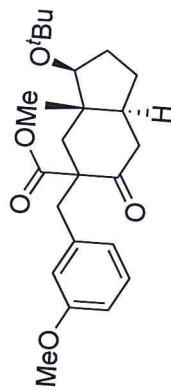
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1	2180.039	7.266	40	430.459	1.435
2	2148.997	7.162	41	423.042	1.410
3	2141.855	7.138	42	416.998	1.390
4	2141.031	7.136	43	411.230	1.371
5	2133.064	7.109	44	344.202	1.147
6	2028.128	6.759	45	335.137	1.117
7	2022.634	6.741	46	265.363	0.884
8	2020.986	6.736	47	245.309	0.818
9	2018.239	6.726	48	-0.000	-0.000
10	1142.762	3.809			
11	1142.213	3.807			
12	1140.015	3.799			
13	1128.203	3.760			
14	1121.061	3.736			
15	1118.039	3.726			
16	1116.116	3.720			
17	1088.646	3.628			
18	1060.077	3.533			
19	999.367	3.331			
20	992.225	3.307			
21	983.435	3.278			
22	957.063	3.190			
23	943.603	3.145			
24	903.496	3.011			
25	890.311	2.967			
26	780.430	2.601			
27	768.617	2.562			
28	755.157	2.517			
29	722.193	2.407			
30	719.171	2.397			
31	707.908	2.359			
32	704.886	2.349			
33	510.672	1.702			
34	458.753	1.529			
35	457.105	1.523			
36	450.512	1.501			
37	445.842	1.486			
38	443.370	1.478			
39	436.502	1.455			



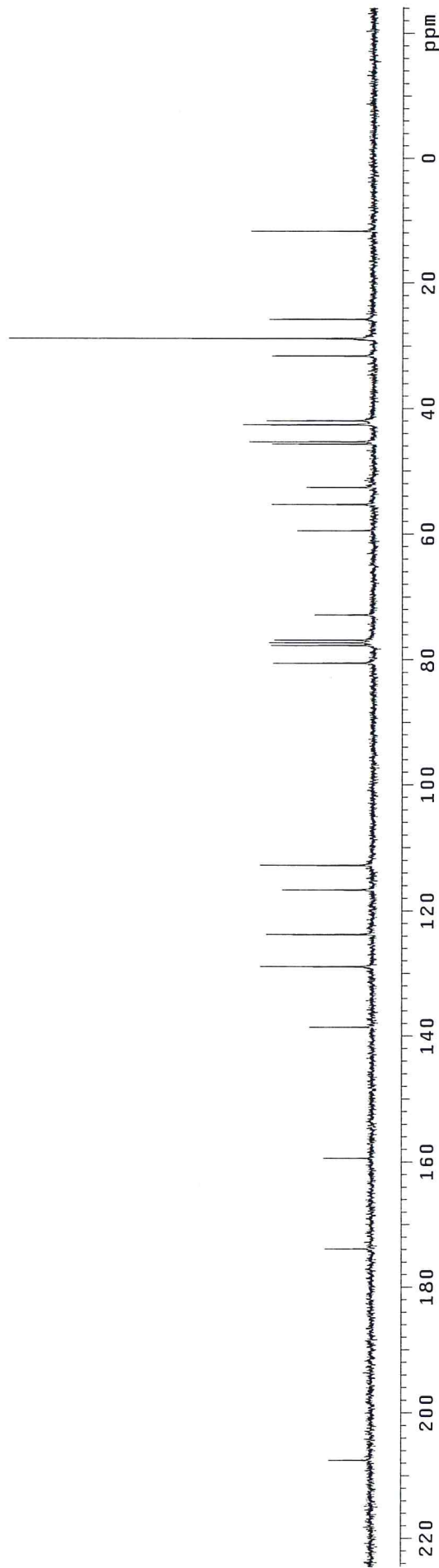
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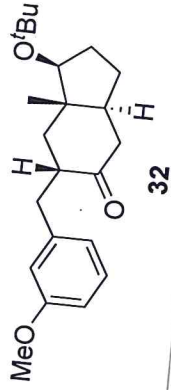
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3	12022.274	159.347	7.8
4	10451.067	138.522	10.0
5	9721.578	128.853	18.0
6	9333.357	123.707	17.0
7	8797.406	116.604	14.5
8	8504.236	112.718	18.0
9	6069.552	80.448	16.0
10	5856.546	77.625	16.3
11	5824.480	77.200	16.7
12	5792.415	76.775	15.8
13	5490.083	72.767	9.4
14	4480.022	59.380	12.2
15	4166.238	55.221	16.2
16	3961.248	52.504	10.7
17	3440.185	45.597	16.2
18	3412.700	45.233	19.8
19	3208.855	42.531	16.4
20	3205.420	42.486	20.9
21	3158.467	41.863	17.1
22	2376.299	31.496	16.2
23	2167.873	28.734	58.4
24	1937.689	25.683	16.7
25	876.094	11.612	19.7



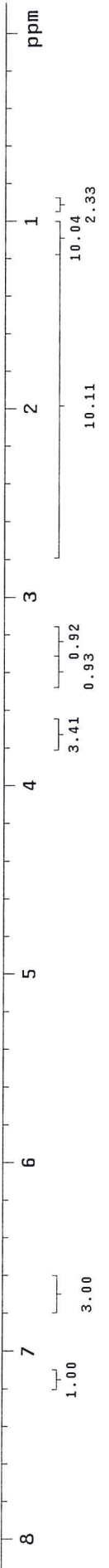
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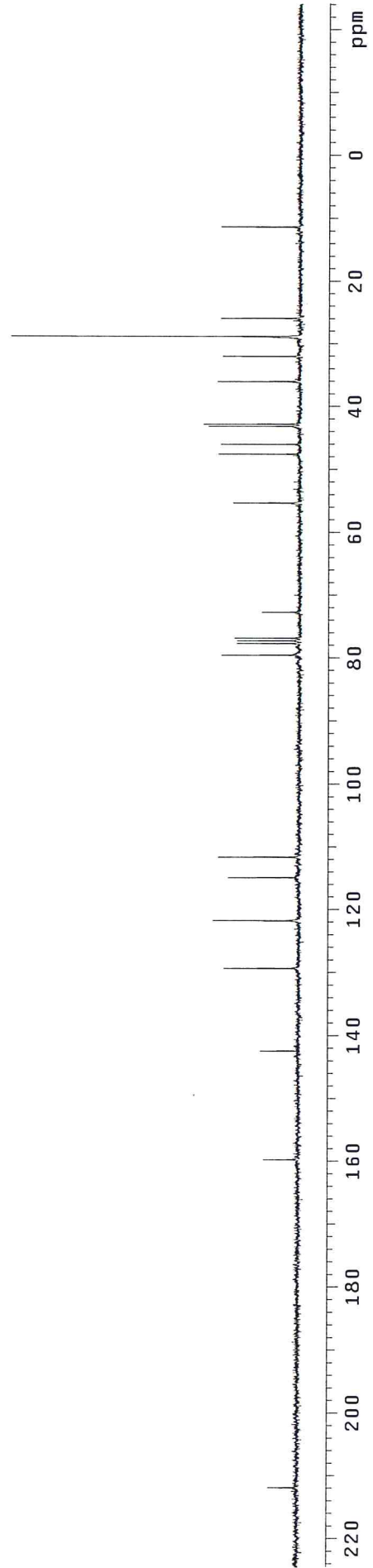
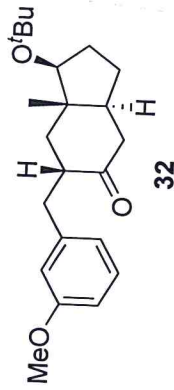
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3	2151.744	7.171	42	499.684	1.665
4	2144.053	7.146	43	493.640	1.645
5	2022.634	6.741	44	487.047	1.623
6	2014.668	6.714	45	483.202	1.610
7	2011.371	6.704	46	472.213	1.574
8	2009.723	6.698	47	466.445	1.555
9	1141.663	3.805	48	464.247	1.547
10	1138.916	3.796	49	462.324	1.541
11	1133.148	3.777	50	459.028	1.530
12	1130.675	3.768	51	455.182	1.517
13	1125.731	3.752	52	453.534	1.512
14	1120.511	3.734	53	451.611	1.505
15	1117.490	3.724	54	441.447	1.471
16	1030.409	3.434	55	437.601	1.458
17	1022.992	3.409	56	431.008	1.436
18	1014.201	3.380	57	424.965	1.416
19	990.028	3.300	58	419.471	1.398
20	985.083	3.283	59	412.878	1.376
21	976.292	3.254	60	348.597	1.162
22	971.348	3.237	61	342.279	1.141
23	791.692	2.639	62	335.412	1.118
24	789.770	2.632	63	327.171	1.090
25	784.550	2.615	64	322.775	1.076
26	778.507	2.595	65	316.183	1.054
27	771.639	2.572	66	312.886	1.043
28	726.863	2.422	67	307.667	1.025
29	720.819	2.402	68	298.602	0.995
30	712.853	2.376	69	291.185	0.970
31	706.809	2.356	70	282.394	0.941
32	700.766	2.336	71	220.586	0.735
33	692.800	2.309	72	0.000	0.000
34	599.675	1.999			
35	593.632	1.978			
36	587.039	1.956			
37	580.996	1.936			
38	571.930	1.906			
39	524.407	1.748			



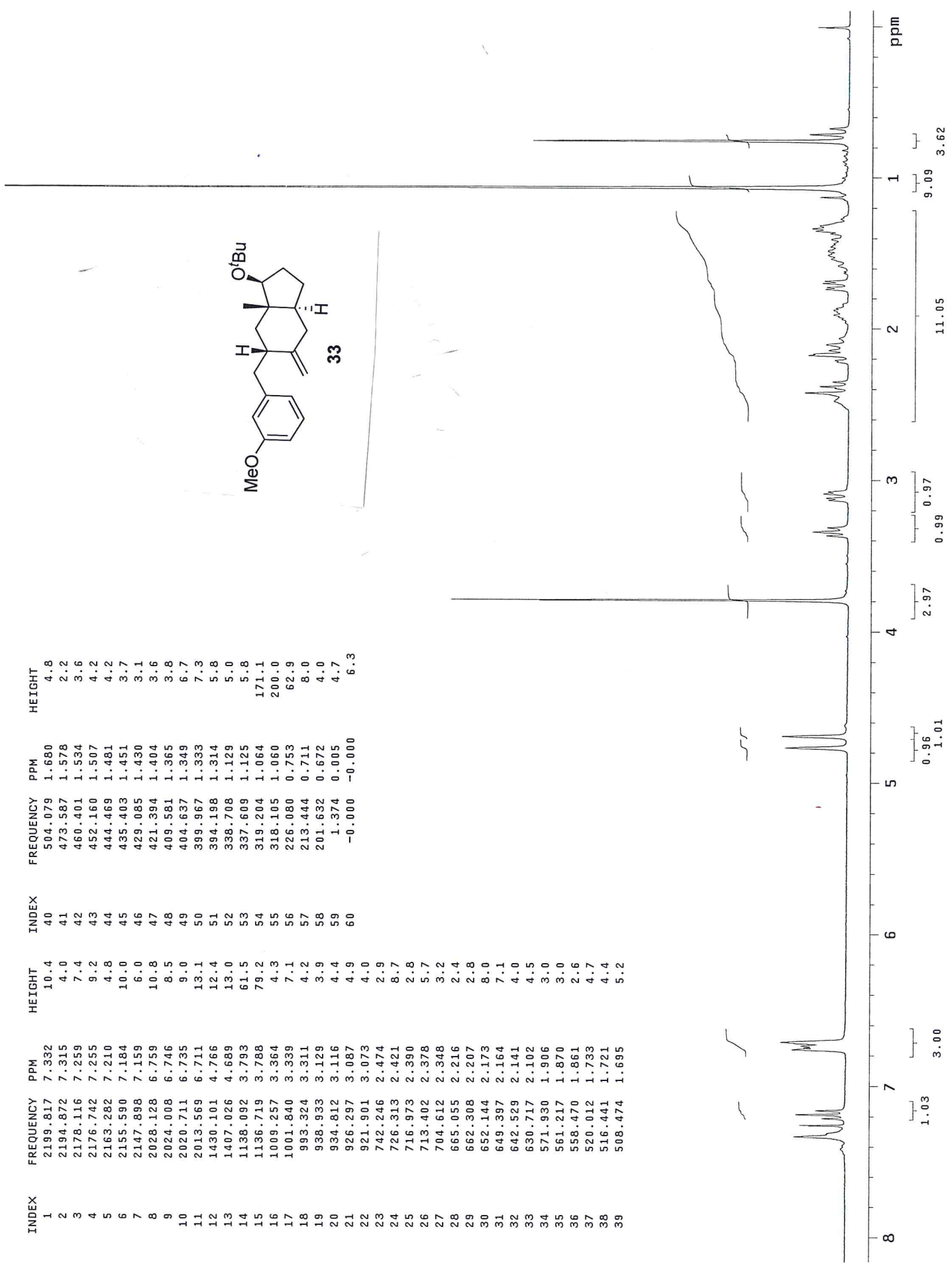
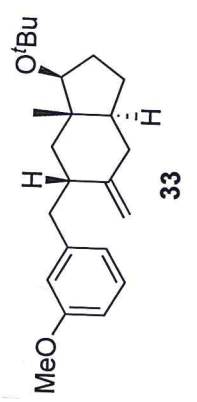
32



LINE	FREQUENCY	PPM	HEIGHT
1	15985.794	211.881	4.7
2	15985.794	211.881	5.6
3	10741.947	142.377	6.1
4	9754.789	129.293	12.0
5	9183.337	121.719	13.8
6	8665.709	114.858	11.4
7	8418.346	111.580	13.0
8	5998.550	79.507	12.5
9	5857.691	77.640	10.0
10	5825.626	77.215	10.0
11	5793.560	76.790	10.4
12	5480.922	72.646	6.1
13	4167.383	55.236	10.7
14	3583.334	47.495	13.0
15	3466.524	45.946	12.7
16	3250.082	43.078	14.7
17	3224.888	42.744	15.4
18	2711.841	35.944	13.2
19	2408.364	31.921	12.4
20	2169.019	28.749	46.2
21	1949.141	25.835	12.7
22	847.464	11.233	12.7



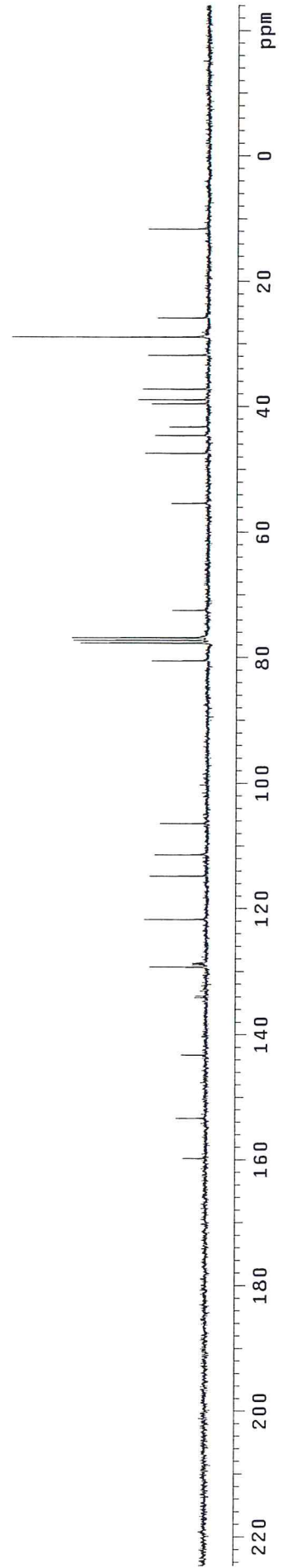
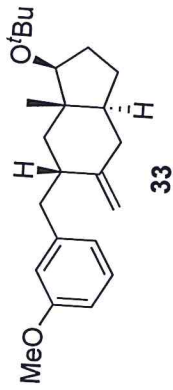
INDEX	FREQUENCY PPM	HEIGHT	INDEX	FREQUENCY PPM	HEIGHT
1	2199.817	7.332	40	504.079	1.680
2	2194.872	7.315	41	473.587	1.578
3	2178.116	7.259	42	460.401	1.534
4	2176.742	7.255	43	452.160	1.507
5	2163.282	7.210	44	444.469	1.481
6	2155.590	7.184	45	435.403	1.451
7	2147.898	7.159	46	429.085	1.430
8	2028.128	6.759	47	421.394	1.404
9	2024.008	6.746	48	409.581	1.365
10	2020.711	6.735	49	404.637	1.349
11	2013.569	6.711	50	399.967	1.333
12	1430.101	4.766	51	394.198	1.314
13	1407.026	4.689	52	338.708	1.129
14	1138.092	3.793	53	337.609	1.125
15	1136.719	3.788	54	319.204	1.064
16	1009.257	3.364	55	318.105	1.060
17	1001.840	3.339	56	226.080	0.753
18	993.324	3.311	57	213.444	0.711
19	938.933	3.129	58	201.632	0.672
20	934.812	3.116	59	1.374	0.005
21	926.297	3.087	60	-0.000	-0.000
22	921.901	3.073			
23	742.246	2.474			
24	726.313	2.421			
25	716.973	2.390			
26	713.402	2.378			
27	704.612	2.348			
28	665.055	2.216			
29	662.308	2.207			
30	652.144	2.173			
31	649.397	2.164			
32	642.529	2.141			
33	630.717	2.102			
34	571.930	1.906			
35	561.217	1.870			
36	558.470	1.861			
37	520.012	1.733			
38	516.441	1.721			
39	508.474	1.695			

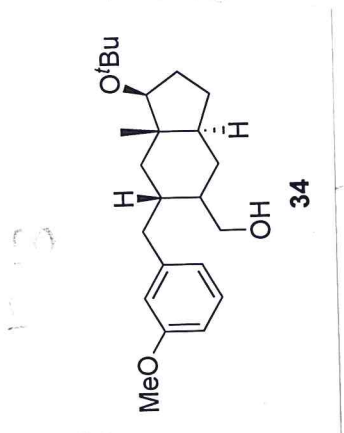


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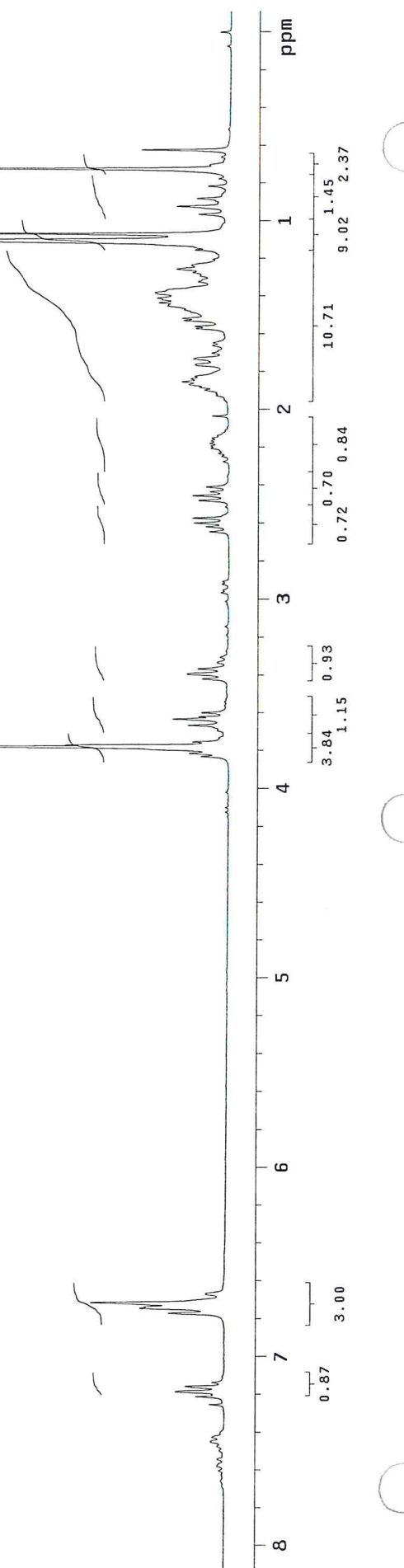
1.03 3.00 0.96 1.01 2.97 0.99 0.97 11.05 9.09 3.62

INDEX	FREQUENCY	PPM	HEIGHT
1	12052.049	159.742	3.7
2	11567.632	153.321	4.8
3	10802.642	143.182	4.0
4	9750.208	129.233	9.1
5	9179.901	121.674	10.0
6	8657.692	114.752	9.2
7	8401.168	111.352	8.4
8	8023.254	106.343	7.6
9	6070.697	80.463	9.0
10	5857.691	77.640	20.4
11	5825.625	77.215	21.5
12	5793.560	76.790	21.8
13	5462.598	72.403	5.7
14	4171.964	55.297	5.9
15	3573.027	47.358	10.1
16	3360.021	44.535	8.6
17	3256.953	43.169	6.3
18	2979.816	39.495	9.1
19	2931.718	38.858	11.3
20	2804.601	37.173	10.5
21	2395.767	31.754	9.7
22	2175.889	28.840	31.5
23	1945.705	25.789	8.2
24	870.367	11.536	9.7



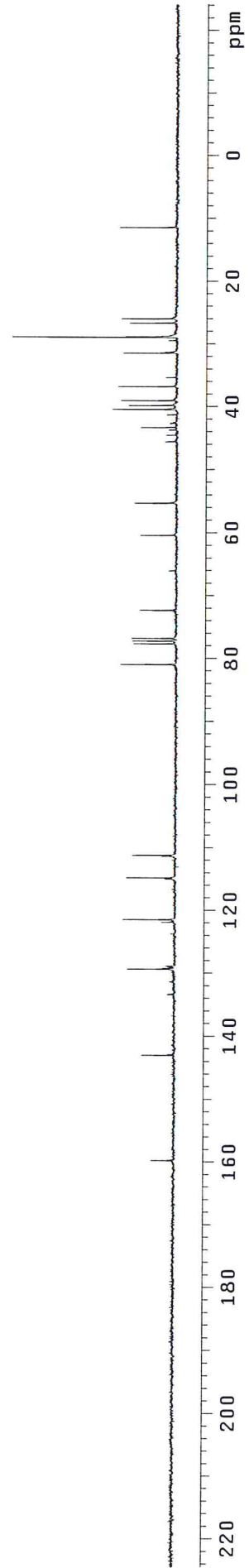
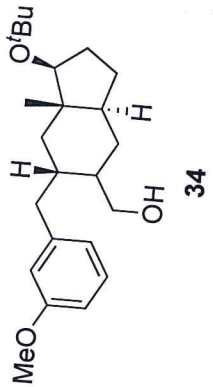


INDEX	FREQUENCY PPM	HEIGHT	INDEX	FREQUENCY PPM	HEIGHT
1	2176.742	7.255	40	551.328	1.837
2	2164.106	7.213	41	546.933	1.823
3	2156.689	7.188	42	528.253	1.761
4	2147.898	7.159	43	519.462	1.731
5	2032.249	6.773	44	510.122	1.700
6	2024.008	6.746	45	498.310	1.661
7	2021.810	6.738	46	493.640	1.645
8	2015.492	6.717	47	471.115	1.570
9	2002.031	6.672	48	467.818	1.559
10	1149.355	3.831	49	458.478	1.528
11	1144.410	3.814	50	455.182	1.517
12	1134.796	3.782	51	441.722	1.472
13	1132.049	3.773	52	435.403	1.451
14	1126.280	3.754	53	430.459	1.435
15	1099.909	3.666	54	425.789	1.419
16	1090.019	3.633	55	423.042	1.410
17	1086.448	3.621	56	414.251	1.381
18	1079.581	3.598	57	396.670	1.322
19	1026.014	3.420	58	387.330	1.291
20	1018.597	3.395	59	382.111	1.274
21	1010.081	3.366	60	376.892	1.256
22	793.341	2.644	61	370.574	1.235
23	785.374	2.617	62	360.684	1.202
24	779.606	2.598	63	346.125	1.154
25	771.914	2.573	64	320.852	1.105
26	743.894	2.479	65	320.852	1.069
27	736.477	2.455	66	289.536	0.965
28	730.434	2.434	67	276.900	0.923
29	722.742	2.409	68	264.264	0.881
30	661.209	2.204	69	244.485	0.815
31	657.638	2.192	70	217.015	0.723
32	653.517	2.178	71	210.422	0.701
33	649.397	2.164	72	186.798	0.623
34	645.276	2.151			
35	610.389	2.034			
36	568.909	1.896			
37	564.514	1.881			
38	560.118	1.867			
39	555.723	1.852			

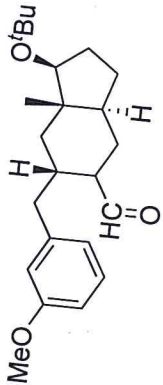


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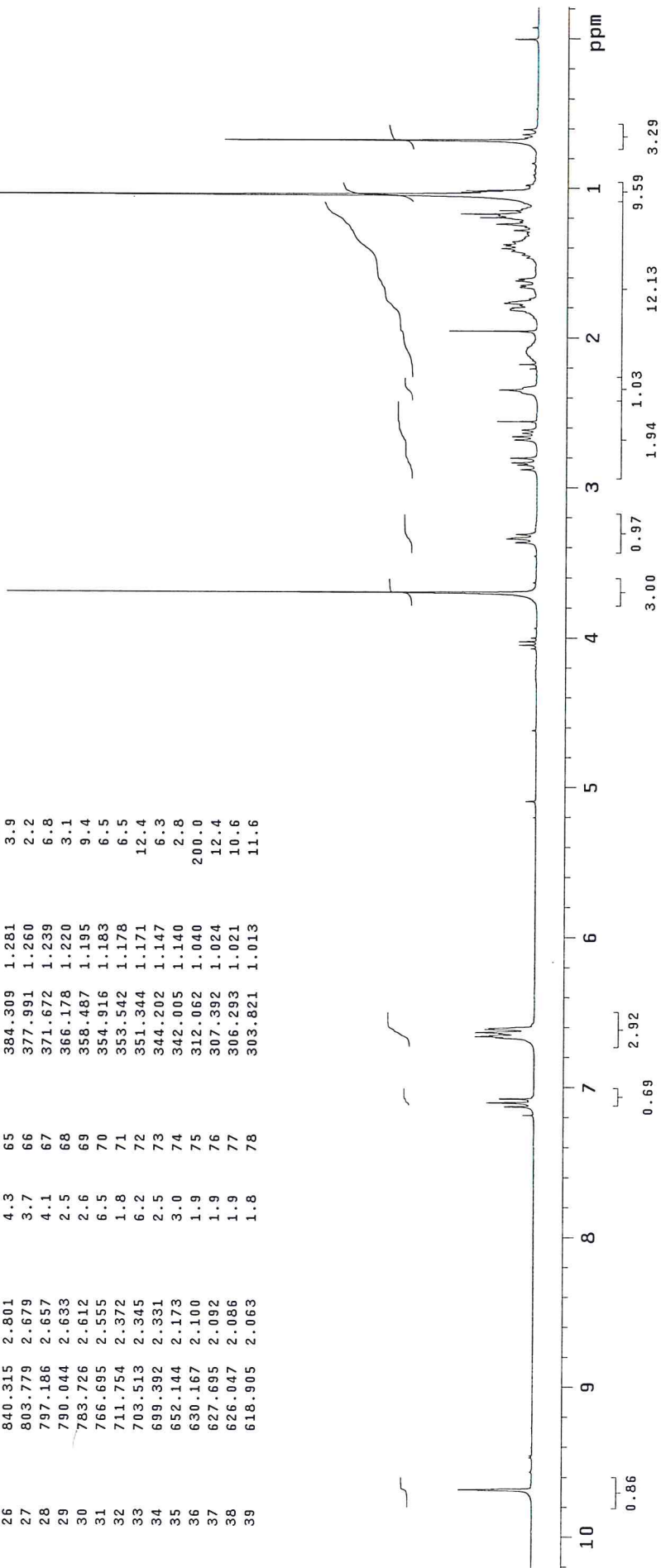
INDEX	FREQUENCY	PPM	HEIGHT
1	12053.195	159.757	3.7
2	10788.900	143.000	5.3
3	9757.079	129.324	7.6
4	9162.723	121.446	8.4
5	8661.128	114.798	7.8
6	8389.717	111.200	6.9
7	6107.343	80.949	8.9
8	5857.691	77.640	6.8
9	5825.626	77.215	7.0
10	5793.560	76.790	7.2
11	5454.582	72.297	5.9
12	4554.459	60.366	5.9
13	4169.674	55.266	6.8
14	3264.970	43.275	5.8
15	3049.673	40.421	8.7
16	3047.383	40.391	10.4
17	3000.430	39.769	7.7
18	2943.170	39.010	9.0
19	2773.681	36.763	9.4
20	2369.428	31.405	8.7
21	2179.325	28.896	26.4
22	2173.599	28.810	8.3
23	2009.837	26.639	7.7
24	1957.158	25.941	9.0
25	858.916	11.384	9.3



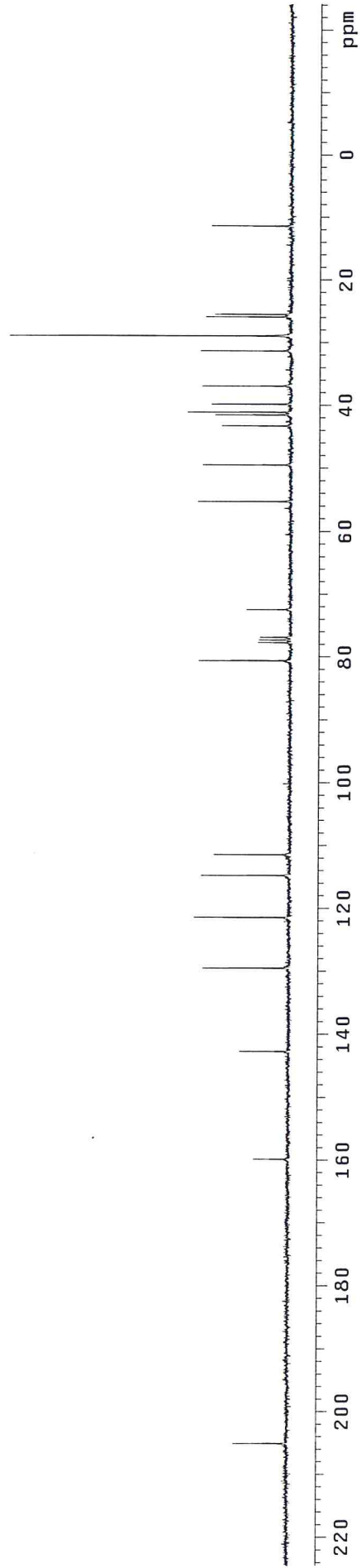
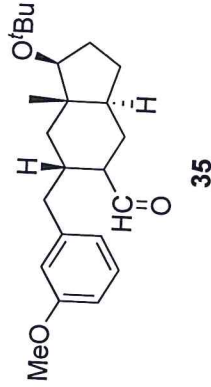
INDEX	FREQUENCY PPM	HEIGHT	INDEX	FREQUENCY PPM	HEIGHT	INDEX	FREQUENCY PPM	HEIGHT	INDEX	FREQUENCY PPM	HEIGHT
1	2906.901	9.688	8.7	586.215	1.954	79	293.932	0.980	2.1		
2	2905.802	9.684	11.8	549.130	1.830	80	292.558	0.975	2.0		
3	2904.429	9.680	6.4	543.911	1.813	81	202.456	0.675	50.2		
4	2155.865	7.185	1.8	541.713	1.805	82	197.236	0.657	2.3		
5	2138.833	7.128	4.8	539.790	1.799	83	190.643	0.635	2.6		
6	2131.142	7.103	7.6	535.120	1.783	84	180.480	0.602	2.5		
7	2123.175	7.076	5.6	530.450	1.768	85	0.000	0.000	3.9		
8	2001.207	6.670	6.2	528.527	1.761						
9	1998.460	6.660	9.5	498.310	1.661	3.0					
10	1996.812	6.655	7.3	494.739	1.649	2.9					
11	1992.966	6.642	5.8	485.674	1.619	3.6					
12	1990.494	6.634	9.5	482.103	1.607	3.2					
13	1983.901	6.612	7.9	439.249	1.464	1.9					
14	1982.253	6.606	7.4	433.480	1.445	2.7					
15	1213.635	4.045	2.8	426.063	1.420	4.3					
16	1206.493	4.021	2.8	420.569	1.402	6.0					
17	1111.721	3.705	9.3	415.625	1.385	5.3					
18	1108.974	3.696	84.7	412.603	1.375	5.6					
19	1009.257	3.364	3.5	407.384	1.358	4.2					
20	1001.840	3.339	4.9	405.186	1.350	3.1					
21	1000.466	3.334	4.1	402.988	1.343	2.7					
22	993.049	3.310	3.4	399.417	1.331	2.4					
23	863.115	2.877	2.7	396.670	1.322	2.2					
24	853.775	2.845	3.3	392.000	1.306	1.8					
25	849.655	2.832	4.2	389.803	1.299	1.9					
26	840.315	2.801	4.3	384.309	1.281	3.9					
27	803.779	2.679	3.7	377.991	1.260	2.2					
28	797.186	2.657	4.1	371.672	1.239	6.8					
29	790.044	2.633	2.5	366.178	1.220	3.1					
30	783.726	2.612	2.6	358.487	1.195	9.4					
31	766.695	2.555	6.5	354.916	1.183	6.5					
32	711.754	2.372	1.8	353.542	1.178	6.5					
33	703.513	2.345	6.2	351.344	1.171	12.4					
34	699.392	2.331	2.5	344.202	1.147	6.3					
35	652.144	2.173	3.0	342.005	1.140	2.8					
36	630.167	2.100	1.9	312.062	1.040	200.0					
37	627.695	2.092	1.9	307.392	1.024	12.4					
38	626.047	2.086	1.9	306.293	1.021	10.6					
39	618.905	2.063	1.8	303.821	1.013	11.6					



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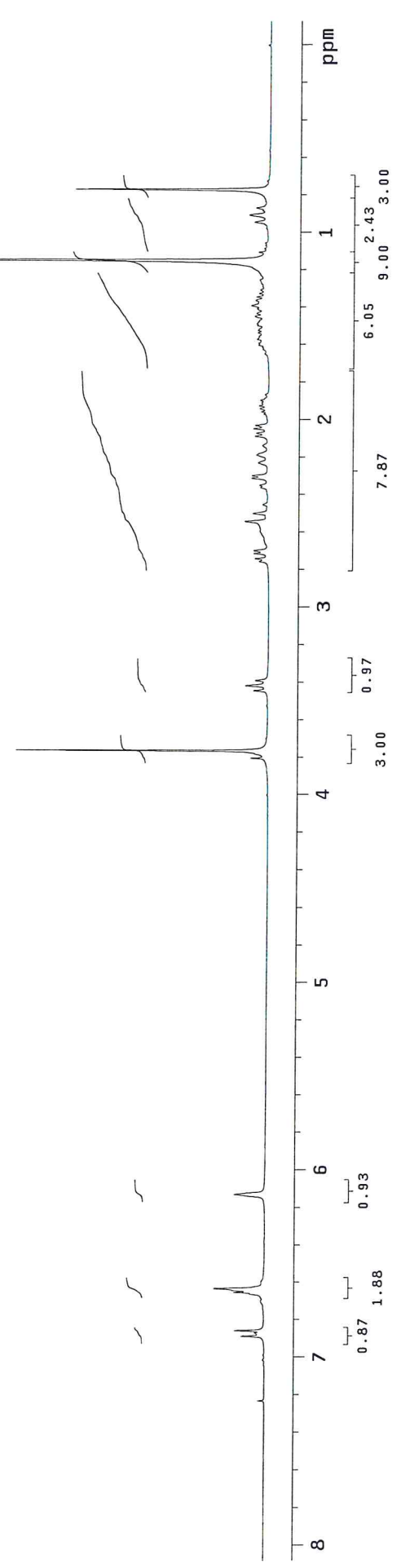
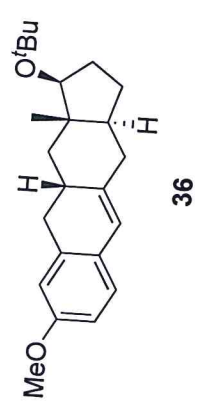


INDEX	FREQUENCY	PPM	HEIGHT
1	15470.456	205.051	8.6
2	12057.776	159.818	5.6
3	10762.560	142.651	7.8
4	9767.386	129.460	13.8
5	9158.142	121.385	15.3
6	8654.257	114.706	14.1
7	8404.604	111.397	12.1
8	6076.423	80.539	14.6
9	5857.691	77.640	5.2
10	5825.626	77.215	5.0
11	5794.705	76.805	4.8
12	5460.309	72.373	7.0
13	4165.093	55.206	14.8
14	3727.629	49.407	14.0
15	3258.099	43.184	11.0
16	3126.402	41.438	12.1
17	3094.336	41.013	16.5
18	2998.140	39.738	12.6
19	2779.408	36.839	14.2
20	2357.976	31.253	14.5
21	2178.180	28.870	44.9
22	1947.996	25.819	13.6
23	1918.221	25.425	12.2
24	852.045	11.293	12.7

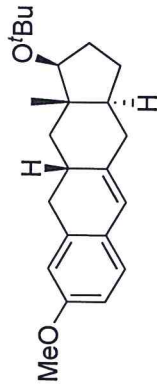


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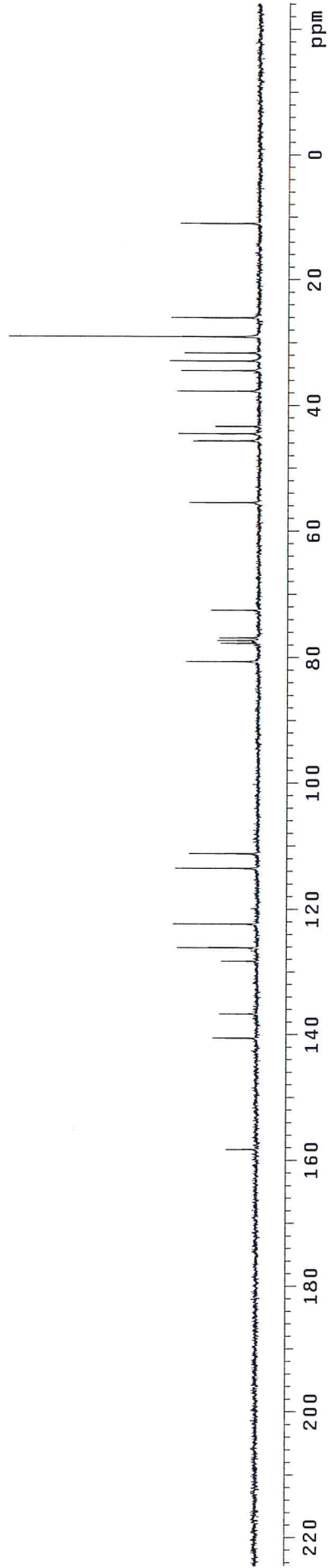
INDEX	FREQUENCY PPM	HEIGHT	INDEX	FREQUENCY PPM	HEIGHT
1	2170.149	1.1	40	484.300	1.3
2	2067.411	4.0	41	480.729	2.0
3	2061.917	1.7	42	477.708	2.0
4	2058.620	5.0	43	471.389	2.2
5	1999.559	2.5	44	466.719	1.9
6	1997.087	5.2	45	460.951	2.1
7	1991.043	8.4	46	457.105	2.1
8	1839.682	5.2	47	455.182	1.9
9	1141.389	2.9	48	449.413	2.2
10	1134.796	2.3	49	446.391	2.3
11	1129.576	41.0	50	444.194	2.1
12	1032.881	2.5	51	441.722	1.9
13	1025.189	3.9	52	434.579	2.6
14	1016.948	2.2	53	430.184	2.3
15	826.854	1.7	54	421.943	2.3
16	822.459	2.4	55	417.548	3.2
17	814.218	2.6	56	409.032	2.5
18	809.548	2.6	57	403.538	2.3
19	778.781	1.6	58	397.769	1.9
20	762.849	4.0	59	392.275	1.7
21	749.938	2.7	60	386.506	1.4
22	735.653	1.1	61	376.342	1.8
23	708.732	1.5	62	368.101	1.7
24	704.886	1.6	63	345.026	109.7
25	693.624	3.0	64	331.291	2.0
26	689.503	2.9	65	325.522	1.1
27	668.900	1.9	66	283.218	2.7
28	656.264	2.2	67	271.681	3.6
29	641.430	1.2	68	264.538	1.4
30	626.322	2.4	69	260.418	2.4
31	621.377	2.2	70	231.299	31.8
32	614.235	2.8			
33	608.741	2.4			
34	587.039	1.4			
35	581.820	1.7			
36	577.699	1.8			
37	572.755	1.4			
38	568.909	1.6			
39	487.322	1.2			



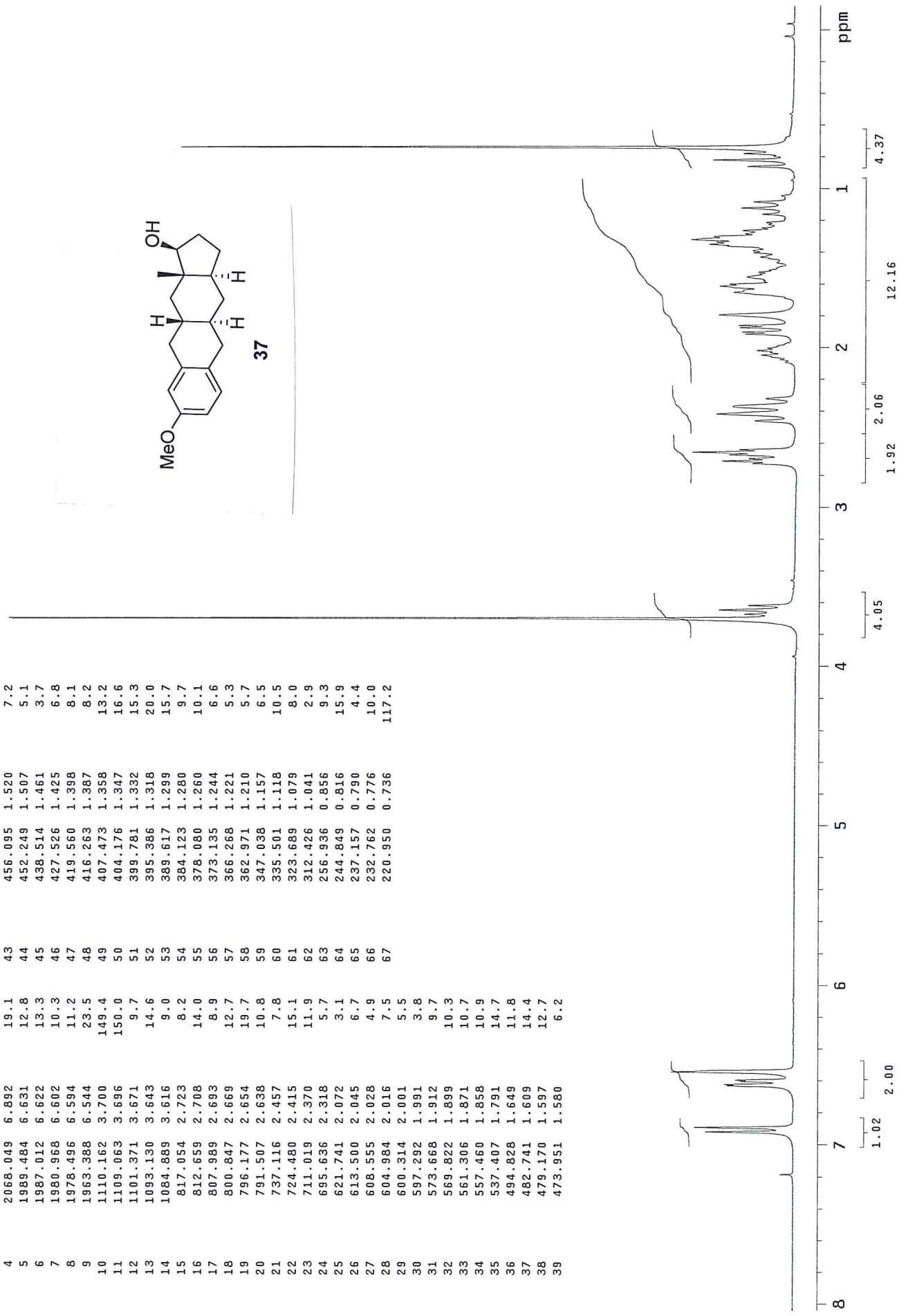
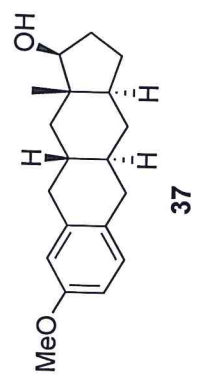
INDEX	FREQUENCY	PPM	HEIGHT
1	11935.240	158.194	4.9
2	10598.797	140.480	7.2
3	10309.063	136.640	6.1
4	9672.335	128.200	5.8
5	9509.717	126.045	12.9
6	9224.564	122.266	13.5
7	8559.205	113.447	13.2
8	8383.991	111.124	11.0
9	6076.423	80.539	11.6
10	5857.691	77.640	6.0
11	5825.625	77.215	6.6
12	5793.560	76.790	6.3
13	5463.744	72.418	7.6
14	4179.981	55.403	11.2
15	3437.894	45.567	10.6
16	3350.860	44.413	13.0
17	3261.534	43.229	7.1
18	2837.812	37.613	13.2
19	2592.741	34.365	12.6
20	2475.931	32.817	14.4
21	2379.734	31.542	12.0
22	2186.196	28.977	40.0
23	1958.303	25.956	14.1
24	823.415	10.914	12.7



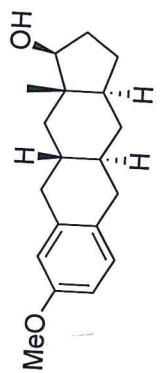
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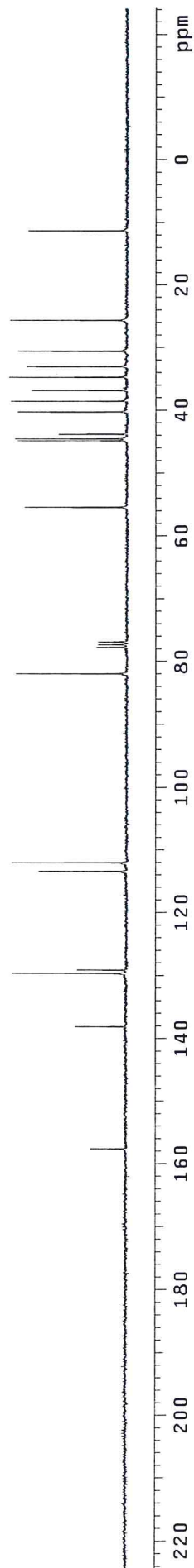
INDEX	FREQUENCY PPM	HEIGHT	INDEX	FREQUENCY PPM	HEIGHT
1	2155.954	7.185	40	470.929	1.570
2	2154.855	7.182	41	465.160	1.550
3	2076.290	6.920	42	459.666	1.532
4	2068.049	6.892	43	456.095	1.520
5	1989.484	6.631	44	452.249	1.507
6	1987.012	6.622	45	438.514	1.461
7	1980.968	6.602	46	427.526	1.425
8	1978.496	6.594	47	419.560	1.398
9	1963.368	6.544	48	416.263	1.387
10	1110.162	3.700	49	407.473	1.358
11	1109.063	3.696	50	404.176	1.347
12	1101.371	3.671	51	399.781	1.332
13	1093.130	3.643	52	395.386	1.318
14	1084.889	3.616	53	389.617	1.299
15	817.054	2.723	54	384.123	1.280
16	812.659	2.708	55	378.080	1.260
17	807.989	2.693	56	373.135	1.244
18	800.847	2.669	57	366.268	1.221
19	796.177	2.654	58	362.971	1.210
20	791.507	2.638	59	347.038	1.157
21	737.116	2.457	60	335.501	1.118
22	724.480	2.415	61	323.689	1.079
23	711.019	2.370	62	312.426	1.041
24	695.636	2.318	63	256.936	0.856
25	621.741	2.072	64	244.849	0.816
26	613.500	2.045	65	237.157	0.790
27	608.555	2.028	66	232.762	0.776
28	604.984	2.016	67	220.950	0.736
29	600.314	2.001			
30	597.252	1.991			
31	573.668	1.912			
32	569.822	1.899			
33	561.306	1.871			
34	557.460	1.858			
35	537.407	1.791			
36	494.828	1.649			
37	482.741	1.609			
38	479.170	1.597			
39	473.951	1.580			



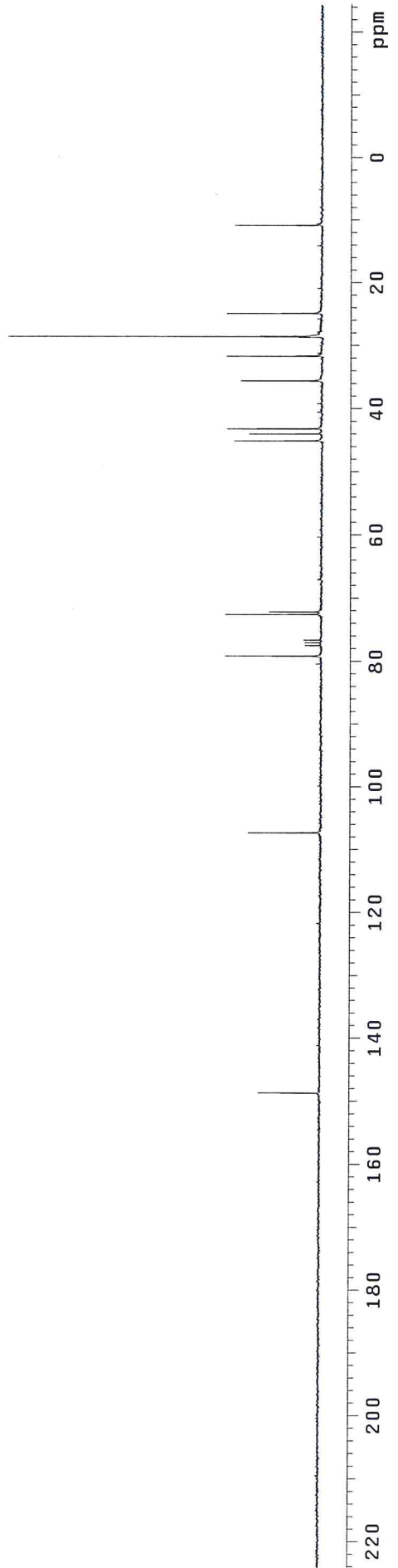
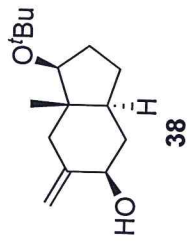
INDEX	FREQUENCY	PPM	HEIGHT
1	11887.142	157.556	5.7
2	10414.421	138.036	8.2
3	9775.403	129.567	18.2
4	9735.321	129.035	7.9
5	8552.335	113.356	14.0
6	8448.122	111.974	18.3
7	6177.201	81.875	17.7
8	5857.691	77.640	4.8
9	5825.626	77.215	4.6
10	5793.560	76.790	4.5
11	4174.255	55.327	16.3
12	3376.054	44.747	17.4
13	3354.296	44.459	17.8
14	3298.181	43.715	10.8
15	3030.205	40.163	17.4
16	2901.944	38.463	18.5
17	2771.391	36.733	15.1
18	2613.355	34.638	18.8
19	2483.947	32.923	15.9
20	2299.571	30.479	17.4
21	1927.383	25.546	18.6
22	846.319	11.217	15.7



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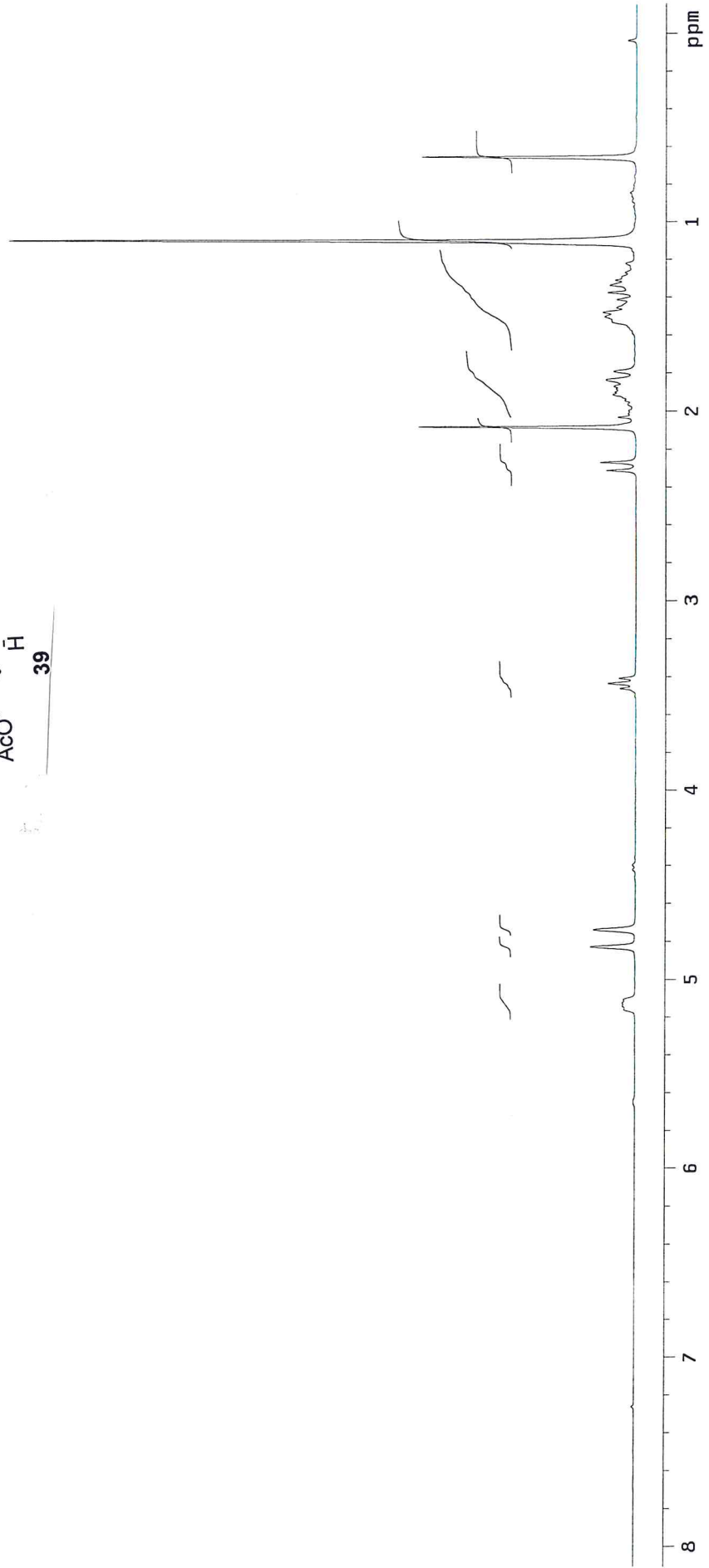
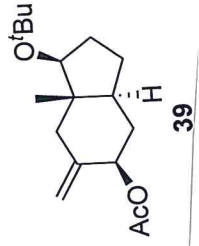


INDEX	FREQUENCY	PPM	HEIGHT
1	11213.594	148.629	9.9
2	8091.793	107.251	11.6
3	5968.602	79.110	15.3
4	5809.420	77.000	2.6
5	5777.354	76.575	2.8
6	5470.442	72.507	15.3
7	5440.667	72.112	8.3
8	3394.204	44.988	13.9
9	3311.750	43.895	11.5
10	3251.055	43.091	15.1
11	2678.457	35.501	12.9
12	2384.142	31.600	15.1
13	2157.394	28.595	3.7
14	2149.377	28.489	50.0
15	1871.095	24.800	15.1
16	810.644	10.745	13.9

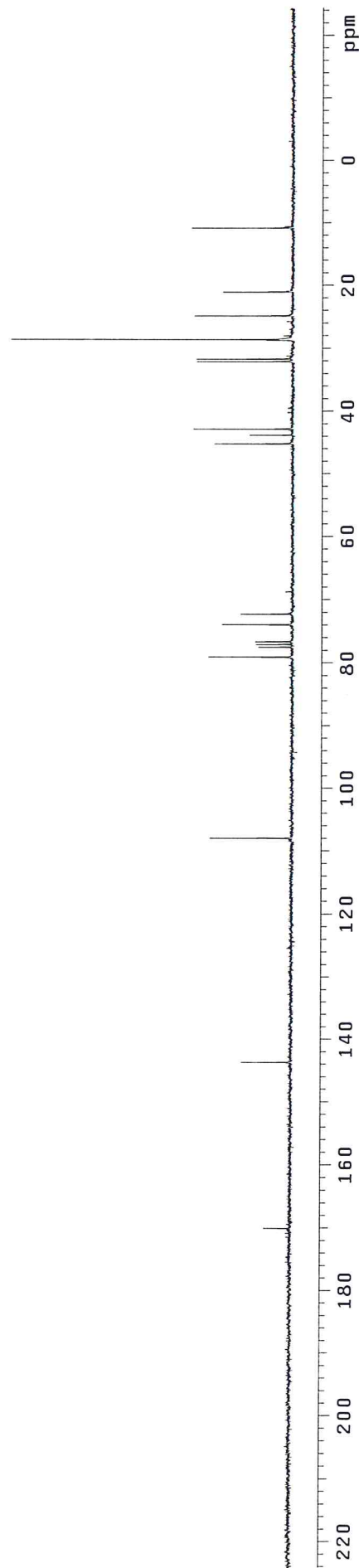
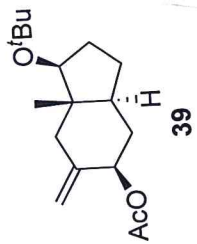


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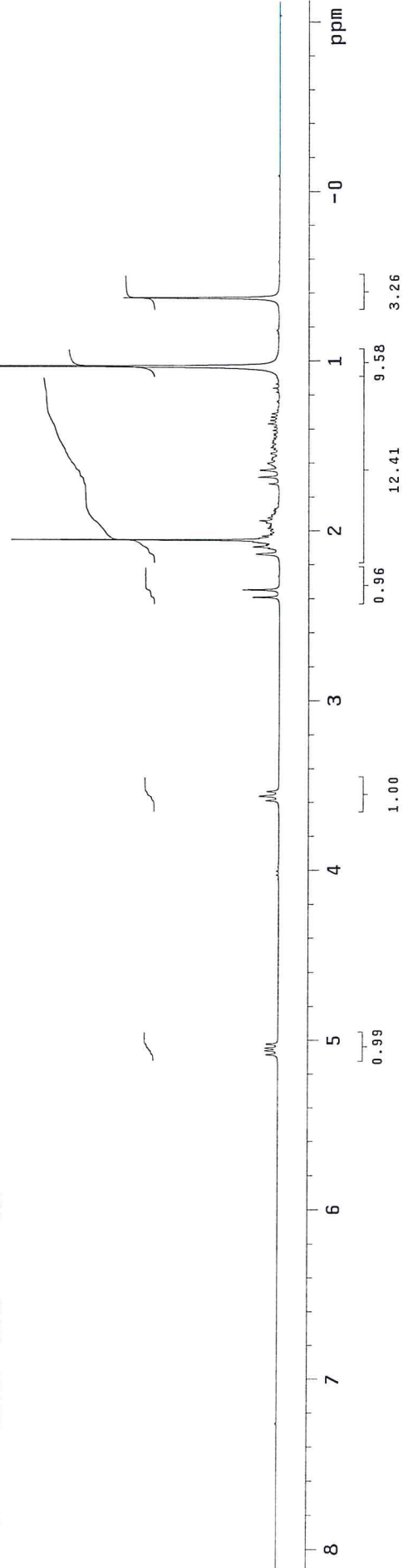
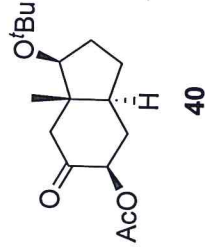
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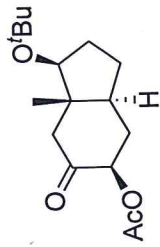
INDEX	FREQUENCY	PPM	HEIGHT
1	12827.173	170.016	4.2
2	10837.970	143.650	8.0
3	8142.181	107.919	13.1
4	5960.585	79.004	13.4
5	5841.485	77.425	5.4
6	5809.419	77.000	5.8
7	5777.354	76.575	5.9
8	5575.800	73.904	11.2
9	5449.828	72.234	8.3
10	3406.801	45.155	12.5
11	3302.588	43.774	6.9
12	3228.150	42.787	15.9
13	2417.352	32.040	15.3
14	2387.577	31.646	15.4
15	2161.974	28.656	4.2
16	2153.958	28.549	45.0
17	1871.094	24.800	15.7
18	1583.651	20.990	11.2
19	811.789	10.760	16.2



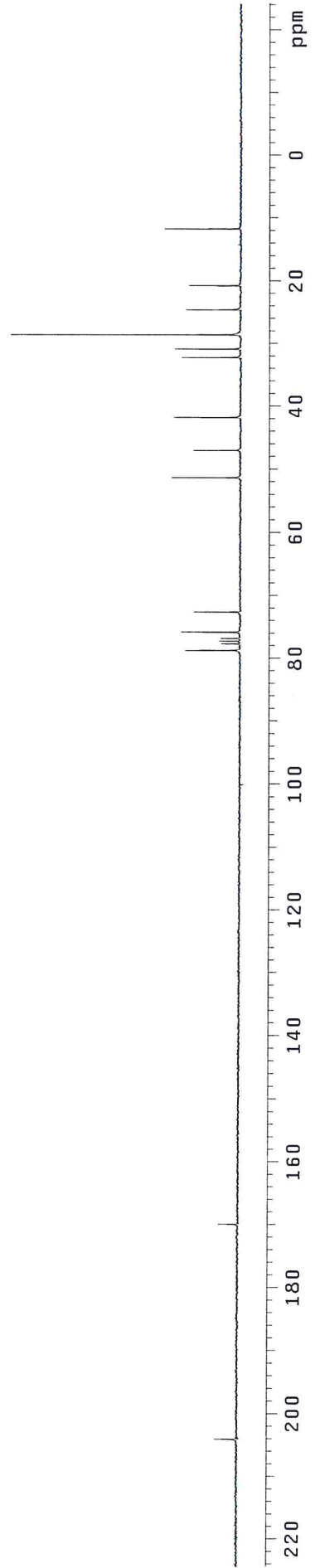
INDEX	FREQUENCY PPM	HEIGHT	INDEX	FREQUENCY PPM	HEIGHT
1	1525.102	2.0	40	462.279	1.4
2	1517.960	2.2	41	461.180	1.4
3	1513.565	2.2	42	454.862	1.0
4	1506.423	2.0	43	451.290	1.4
5	1076.238	2.2	44	449.642	1.1
6	1068.547	3.2	45	447.719	1.2
7	1060.031	2.0	46	443.599	1.2
8	716.653	4.3	47	441.951	1.0
9	703.467	5.9	48	440.028	1.2
10	640.286	3.8	49	437.830	1.1
11	630.946	1.8	50	434.534	1.0
12	627.375	2.091	51	430.138	1.0
13	623.804	2.079	52	427.391	1.0
14	618.859	2.063	53	421.073	1.1
15	615.288	2.051	54	415.304	0.9
16	611.991	3.4	55	409.536	1.9
17	608.420	2.028	56	403.492	1.5
18	604.025	2.013	57	397.723	1.4
19	598.904	1.4	58	391.955	1.3
20	598.531	1.995	59	346.629	1.1
21	594.136	1.980	60	308.445	1.0
22	591.114	1.970	61	187.851	25.0
23	588.916	1.963			
24	584.786	1.949			
25	580.950	1.936			
26	576.005	1.920			
27	572.709	1.909			
28	570.786	1.902			
29	567.215	1.890			
30	563.369	1.878			
31	560.073	1.867			
32	515.846	1.719			
33	503.759	1.679			
34	491.397	1.638			
35	485.628	1.619			
36	479.310	1.597			
37	472.992	1.576			
38	470.520	1.568			
39	468.597	1.562			



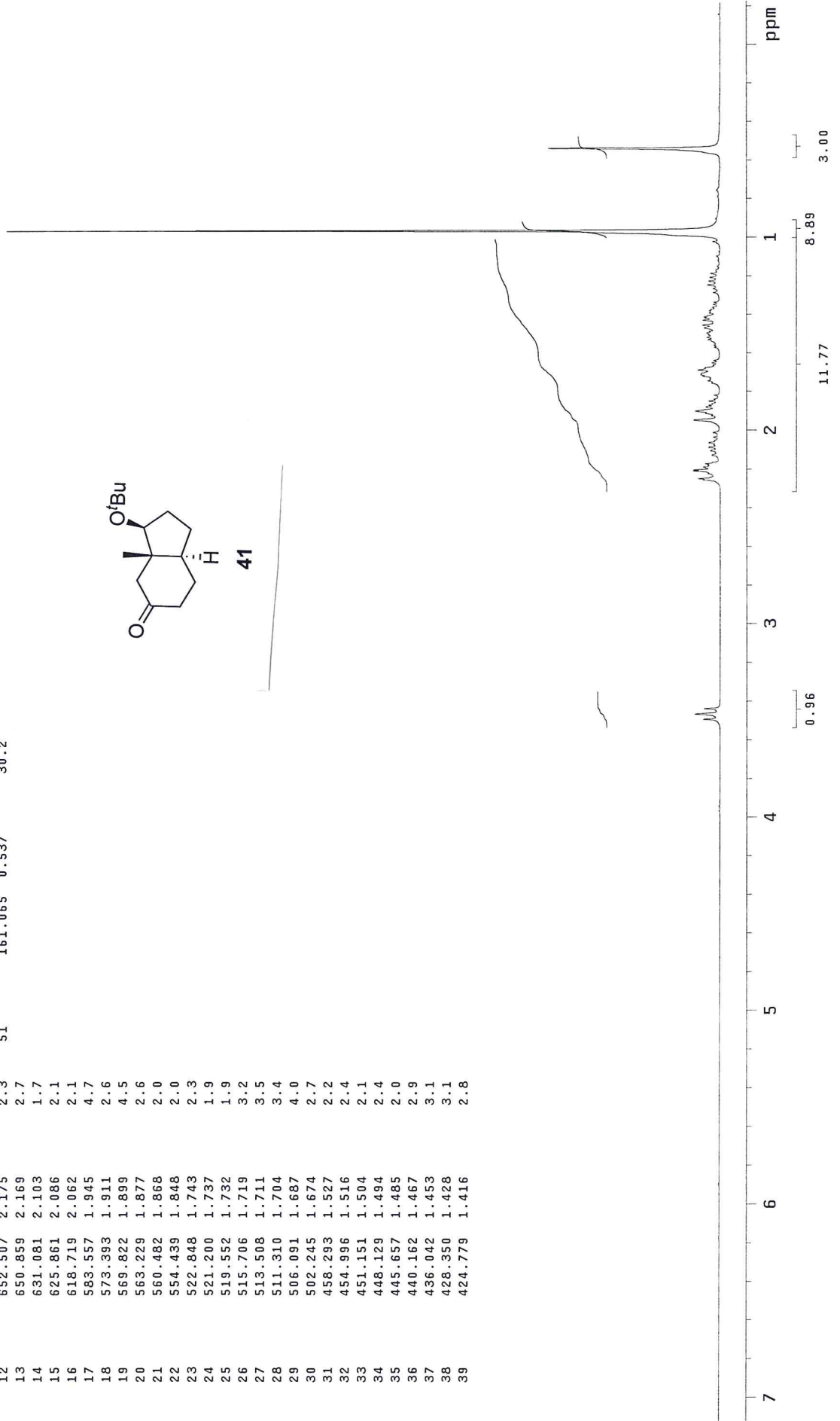
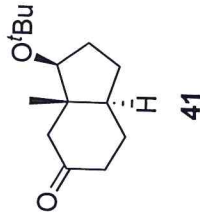
INDEX	FREQUENCY	PPM	HEIGHT
1	15394.874	204.049	3.6
2	12818.185	169.897	3.1
3	5937.855	78.702	8.8
4	5857.691	77.640	3.0
5	5825.626	77.215	3.4
6	5793.561	76.790	3.1
7	5717.978	75.788	9.4
8	5475.196	72.570	7.4
9	3869.633	51.289	11.0
10	3544.398	46.979	7.6
11	3149.306	41.742	10.7
12	2428.978	32.195	9.4
13	2325.911	30.828	10.6
14	2152.986	28.536	36.7
15	1849.510	24.514	8.8
16	1559.775	20.674	8.3
17	877.239	11.627	12.2



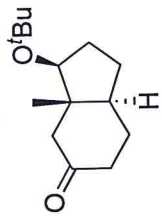
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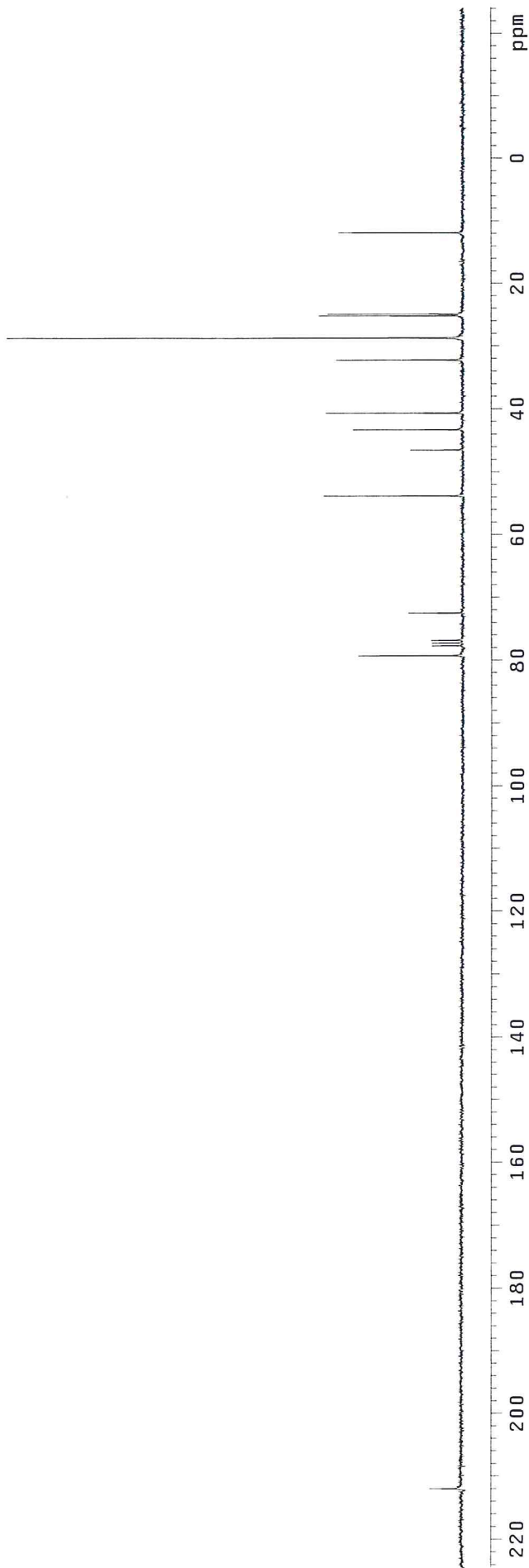
INDEX	FREQUENCY PPM	HEIGHT	INDEX	FREQUENCY PPM	HEIGHT
1	1047.530	3.491	40	423.131	1.410
2	1039.563	3.465	41	421.208	1.404
3	1031.047	3.436	42	416.813	1.389
4	675.857	2.253	43	415.439	1.385
5	674.209	2.247	44	413.242	1.377
6	666.243	2.220	45	411.319	1.371
7	662.397	2.208	46	373.135	1.244
8	660.474	2.201	47	367.092	1.223
9	657.727	2.192	48	361.598	1.205
10	656.079	2.187	49	355.554	1.185
11	654.156	2.180	50	289.076	0.963
12	652.507	2.175	51	161.065	0.537
13	650.859	2.169			
14	631.081	2.103			
15	625.861	2.086			
16	618.719	2.062			
17	583.557	1.945			
18	573.393	1.911			
19	569.822	1.899			
20	563.229	1.877			
21	560.482	1.868			
22	554.439	1.848			
23	522.848	1.743			
24	521.200	1.737			
25	519.552	1.732			
26	515.706	1.719			
27	513.508	1.711			
28	511.310	1.704			
29	506.091	1.687			
30	502.245	1.674			
31	458.293	1.527			
32	454.996	1.516			
33	451.151	1.504			
34	448.129	1.494			
35	445.657	1.485			
36	440.162	1.467			
37	436.042	1.453			
38	428.350	1.428			
39	424.779	1.416			



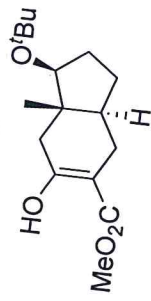
INDEX	FREQUENCY	PPM	HEIGHT
1	15994.956	212.003	5.2
2	5977.937	79.234	16.7
3	5857.691	77.640	4.9
4	5825.626	77.215	4.9
5	5793.560	76.790	5.0
6	5464.890	72.433	8.7
7	4055.155	53.748	22.3
8	3503.171	46.432	8.4
9	3261.535	43.229	17.5
10	3061.126	40.573	21.9
11	2424.397	32.134	20.2
12	2159.857	28.627	73.0
13	1891.882	25.076	23.0
14	1872.413	24.818	21.6
15	887.546	11.764	19.8



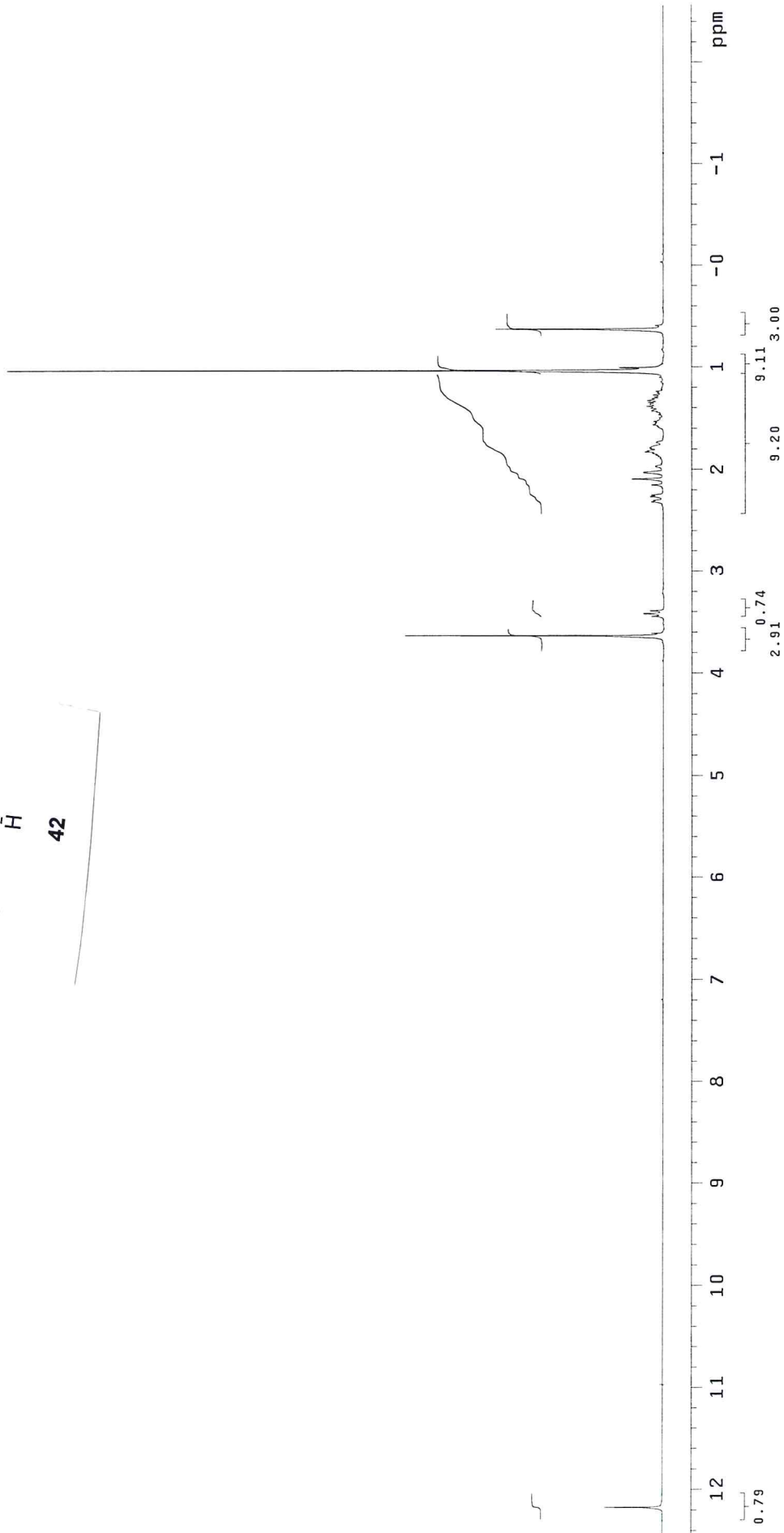
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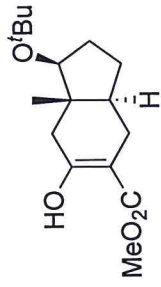
INDEX	FREQUENCY	PPM	HEIGHT
1	3652.808	12.174	9.6
2	1089.010	3.629	42.3
3	309.129	1.030	107.1
4	186.887	0.623	27.4



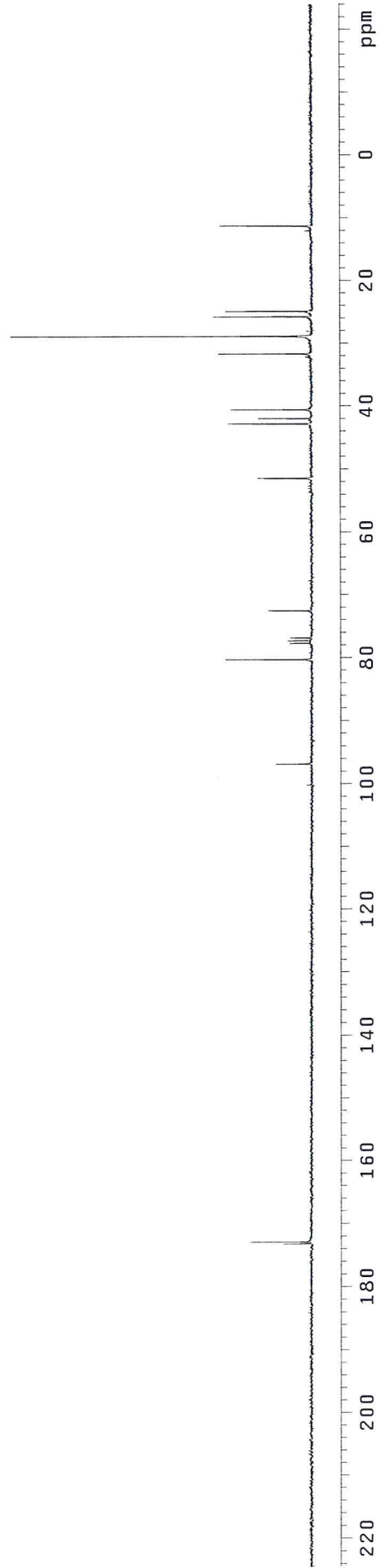
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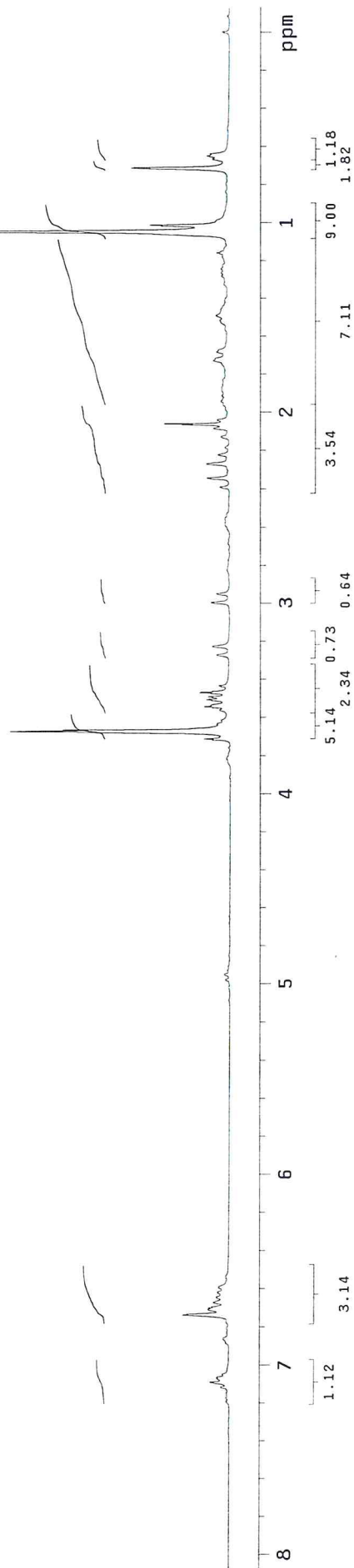
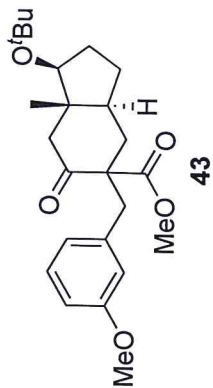
INDEX	FREQUENCY	PPM	HEIGHT
1	13065.547	173.175	4.6
2	13044.933	172.902	9.9
3	7301.782	96.780	5.7
4	6054.664	80.251	13.8
5	5858.836	77.655	3.5
6	5826.771	77.230	3.8
7	5794.705	76.805	3.4
8	5467.180	72.464	6.9
9	3877.649	51.396	8.6
10	3226.033	42.759	13.3
11	3161.902	41.909	8.5
12	3055.399	40.497	12.9
13	2382.025	31.572	14.8
14	2172.454	28.794	48.0
15	2164.438	28.688	3.2
16	1936.544	25.668	15.6
17	1872.413	24.818	13.6
18	841.738	11.157	14.6



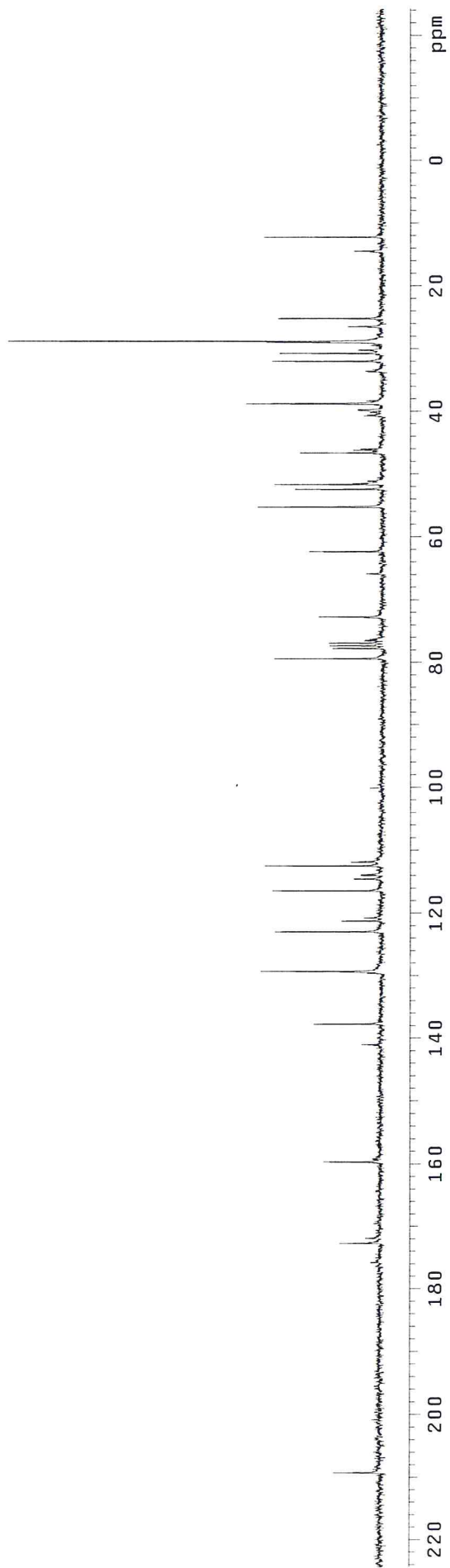
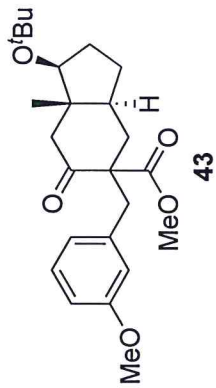
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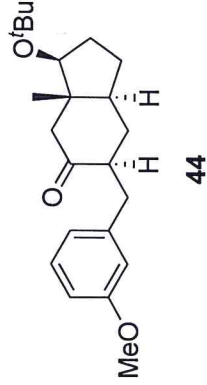
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1	2134.802	7.115	1.4	40	897.817	2.992	3.1	79	302.537	1.008	13.0	80	884.082	2.946	2.3	81	212.709	0.709	15.9	82	199.248	0.664	3.0
2	2127.110	7.089	3.2	41	884.082	2.946	2.3	81	212.709	0.709	15.9	82	199.248	0.664	3.0	83	197.326	0.658	3.0	84	193.480	0.645	3.9
3	2122.166	7.073	2.0	42	716.238	2.387	1.8	80	212.709	0.709	15.9	81	199.248	0.664	3.0	82	197.326	0.658	3.0	83	193.480	0.645	3.9
4	2120.243	7.066	2.1	43	701.954	2.339	1.8	80	212.709	0.709	15.9	81	199.248	0.664	3.0	82	197.326	0.658	3.0	83	193.480	0.645	3.9
5	2118.869	7.062	2.0	44	680.252	2.267	1.6	80	212.709	0.709	15.9	81	199.248	0.664	3.0	82	197.326	0.658	3.0	83	193.480	0.645	3.9
6	2114.749	7.048	1.1	45	665.968	2.220	1.1	84	192.106	0.640	3.4	85	190.183	0.634	3.4	86	-0.460	-0.002	1.2	87	-2.108	-0.007	1.5
7	2021.624	6.738	7.5	46	637.674	2.125	1.6	85	190.183	0.634	3.4	86	-0.460	-0.002	1.2	87	-2.108	-0.007	1.5				
8	2020.251	6.733	6.8	47	624.213	2.080	2.8	86	-0.460	-0.002	1.2	87	-2.108	-0.007	1.5								
9	2012.834	6.708	3.5	48	618.994	2.063	7.8	87	-2.108	-0.007	1.5												
10	2010.636	6.701	3.4	49	617.071	2.057	10.6																
11	2008.988	6.696	2.9	50	611.302	2.037	2.2																
12	2001.571	6.671	2.6	51	587.403	1.958	1.2																
13	1993.605	6.644	2.1	52	582.733	1.942	1.6																
14	1986.737	6.621	1.9	53	580.810	1.936	1.6																
15	1985.364	6.617	1.9	54	579.162	1.930	1.3																
16	1977.397	6.590	1.7	55	573.118	1.910	1.4																
17	1114.557	3.715	3.0	56	564.328	1.881	1.5																
18	1112.909	3.709	4.3	57	559.933	1.866	1.5																
19	1110.162	3.700	1.9	58	555.538	1.851	1.3																
20	1101.921	3.672	35.1	59	548.121	1.827	1.3																
21	1099.448	3.664	26.7	60	517.354	1.724	2.9																
22	1090.658	3.635	2.2	61	503.619	1.678	2.3																
23	1085.164	3.617	1.5	62	453.623	1.512	1.8																
24	1083.516	3.611	1.5	63	446.481	1.488	2.4																
25	1067.583	3.558	1.8	64	436.317	1.454	1.7																
26	1064.012	3.546	2.9	65	395.661	1.319	1.2																
27	1062.364	3.541	4.2	66	383.848	1.279	1.5																
28	1060.166	3.533	3.2	67	378.629	1.262	1.6																
29	1052.749	3.509	3.1	68	372.036	1.240	1.6																
30	1051.101	3.503	3.9	69	366.817	1.223	1.4																
31	1048.354	3.494	3.1	70	353.357	1.178	1.4																
32	1046.431	3.488	3.6	71	348.137	1.160	1.8																
33	1041.761	3.472	3.2	72	346.489	1.155	2.3																
34	1040.113	3.466	5.0	73	344.566	1.148	1.7																
35	1038.484	3.461	3.0	74	340.995	1.136	1.1																
36	1031.047	3.436	1.6	75	339.347	1.131	1.1																
37	1029.399	3.431	1.9	76	314.349	1.048	50.8																
38	981.052	3.270	2.2	77	312.701	1.042	64.9																
39	967.316	3.224	3.0	78	303.910	1.013	11.1																



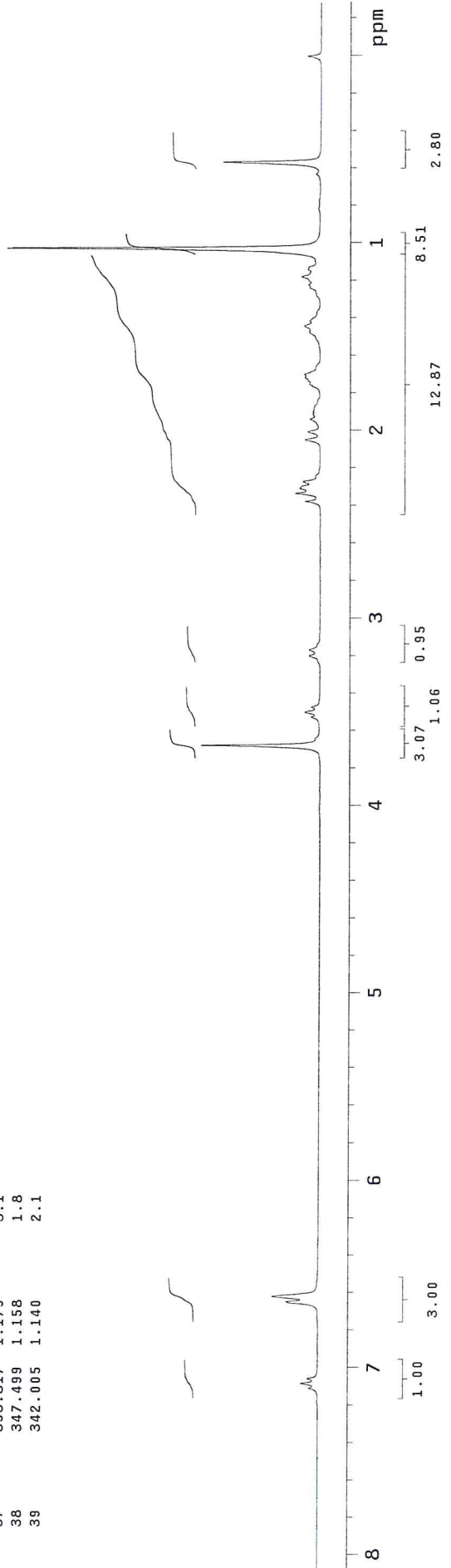
INDEX	FREQUENCY	PPM	HEIGHT
1	15786.530	209.240	7.5
2	13026.611	172.659	6.6
3	12039.453	159.575	9.2
4	10386.937	137.672	10.8
5	9758.225	129.339	6.6
6	9750.209	129.233	19.3
7	9271.517	122.888	17.0
8	9140.965	121.157	6.3
9	8777.938	116.346	17.5
10	8479.042	112.384	18.7
11	5982.518	79.294	17.2
12	5857.692	77.640	7.9
13	5825.626	77.215	8.3
14	5793.561	76.790	8.4
15	5477.487	72.600	10.1
16	4695.319	62.233	11.6
17	4160.513	55.145	19.9
18	3948.652	52.337	13.8
19	3890.247	51.563	17.1
20	3508.897	46.508	13.0
21	2919.122	38.691	21.7
22	2913.396	38.615	17.6
23	2403.784	31.861	17.5
24	2308.733	30.601	16.3
25	2175.890	28.840	18.5
26	2162.148	28.658	59.8
27	1889.592	25.045	16.6
28	911.595	12.083	18.8



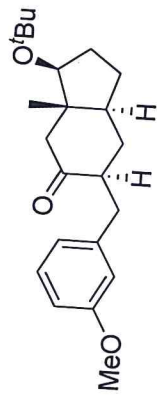
INDEX	FREQUENCY	PPM	HEIGHT	INDEX	FREQUENCY	PPM	HEIGHT
1	2133.339	7.110	1.5	40	338.159	1.127	2.0
2	2125.647	7.084	2.8	41	328.544	1.095	1.0
3	2118.231	7.060	1.8	42	308.216	1.027	50.0
4	1994.889	6.649	5.2	43	188.995	0.630	0.8
5	1986.373	6.620	7.4	44	169.766	0.566	15.6
6	1103.754	3.679	19.0	45	0.000	0.000	2.2
7	1092.492	3.641	0.8				
8	1058.428	3.528	1.4				
9	1050.462	3.501	2.5				
10	1042.221	3.474	1.4				
11	959.536	3.198	1.8				
12	949.921	3.166	1.8				
13	713.402	2.378	2.5				
14	700.217	2.334	4.1				
15	692.250	2.307	3.4				
16	681.262	2.271	2.8				
17	672.197	2.240	0.8				
18	614.509	2.048	2.6				
19	601.598	2.005	2.1				
20	581.545	1.938	1.7				
21	573.304	1.911	1.3				
22	569.183	1.897	1.3				
23	564.239	1.880	1.2				
24	559.844	1.866	1.0				
25	524.956	1.750	1.9				
26	519.462	1.731	2.1				
27	514.792	1.716	2.6				
28	509.573	1.698	2.7				
29	497.761	1.659	0.8				
30	441.722	1.472	1.9				
31	438.425	1.461	1.8				
32	432.107	1.440	2.7				
33	424.690	1.415	1.8				
34	383.485	1.278	0.8				
35	371.398	1.238	1.8				
36	366.453	1.221	2.0				
37	353.817	1.179	3.1				
38	347.499	1.158	1.8				
39	342.005	1.140	2.1				



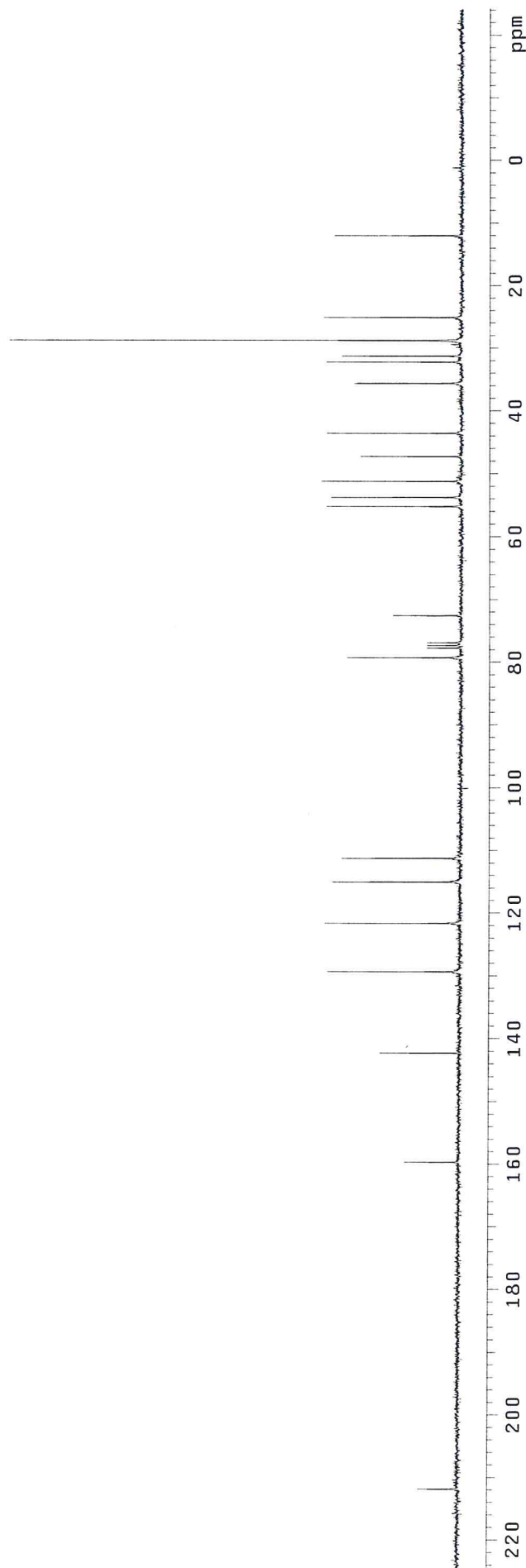
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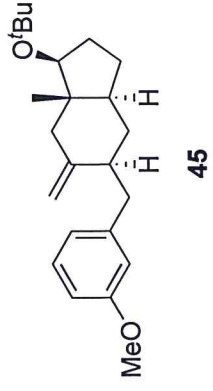
INDEX	FREQUENCY	PPM	HEIGHT
1	15980.068	211.805	6.5
2	12042.889	159.621	8.8
3	10729.350	142.210	12.7
4	9752.499	129.263	21.2
5	9170.740	121.552	21.7
6	8673.726	114.964	20.4
7	8387.427	111.170	19.0
8	5975.647	79.203	18.1
9	5858.837	77.655	5.3
10	5826.771	77.230	5.3
11	5794.706	76.805	5.3
12	5468.325	72.479	10.8
13	4157.077	55.099	21.5
14	4048.284	53.657	20.7
15	3857.036	51.122	22.3
16	3558.140	47.161	16.0
17	3279.858	43.472	21.4
18	2678.631	35.503	17.1
19	2422.107	32.103	21.5
20	2349.960	31.147	19.0
21	2161.003	28.643	72.3
22	1883.866	24.969	22.0
23	895.563	11.870	20.3



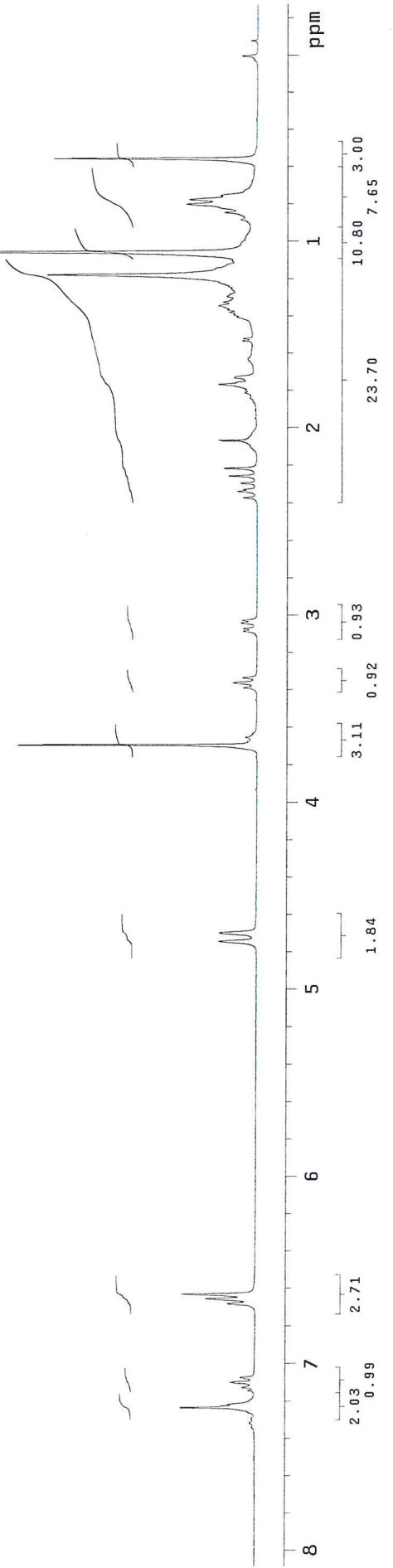
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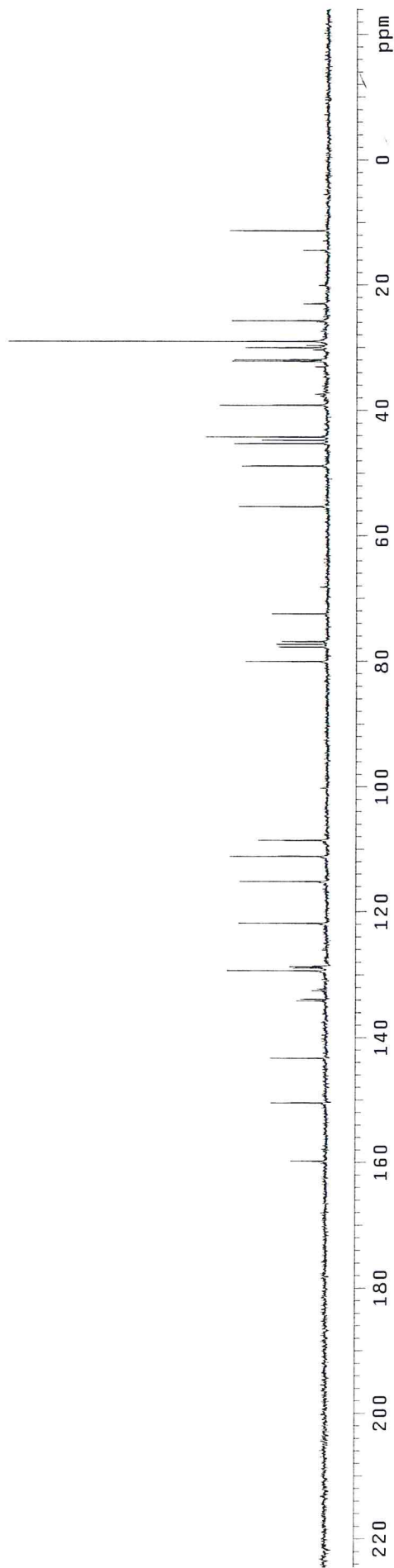
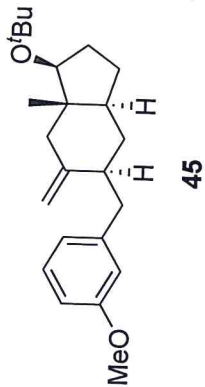
INDEX	FREQUENCY PPM	HEIGHT	INDEX	FREQUENCY PPM	HEIGHT
1	2195.971	0.9	40	676.317	4.6
2	2195.147	0.9	41	663.956	5.4
3	2193.499	0.8	42	620.278	5.8
4	2178.116	1.2	43	619.179	6.3
5	2171.248	12.1	44	551.877	1.3
6	2170.424	12.1	45	543.087	2.1
7	2165.754	4.6	46	539.241	2.1
8	2164.930	4.2	47	529.626	6.3
9	2143.503	1.2	48	526.605	3.7
10	2142.404	1.3	49	518.913	3.8
11	2138.284	2.1	50	488.421	1.7
12	2137.460	2.1	51	459.577	2.5
13	2129.768	4.1	52	458.478	2.6
14	2128.944	3.5	53	456.006	2.4
15	2122.626	2.5	54	454.907	2.4
16	2121.252	2.3	55	420.844	3.5
17	2004.229	4.6	56	417.273	4.0
18	1996.537	8.1	57	413.427	4.7
19	1989.395	11.9	58	409.307	5.0
20	1422.959	6.2	59	402.714	6.3
21	1409.498	6.1	60	396.670	5.7
22	1108.699	38.3	61	387.605	5.1
23	1107.875	38.1	62	375.244	4.4
24	1102.930	1.6	63	371.947	4.7
25	1102.106	1.6	64	352.993	33.7
26	1096.337	1.9	65	330.467	4.3
27	1095.239	1.9	66	316.732	100.0
28	1089.745	0.8	67	315.908	99.2
29	1016.399	2.3	68	295.855	2.2
30	1008.158	3.9	69	264.538	2.8
31	1000.192	2.4	70	253.001	5.4
32	925.198	2.3	71	239.815	11.5
33	921.077	2.3	72	232.124	11.0
34	912.012	2.7	73	225.805	6.0
35	907.892	2.5	74	166.195	32.6
36	711.205	2.3	75	0.000	2.7
37	701.041	3.3	76	-23.899	1.2
38	698.019	2.3	77	-24.998	1.2
39	687.855	2.8			



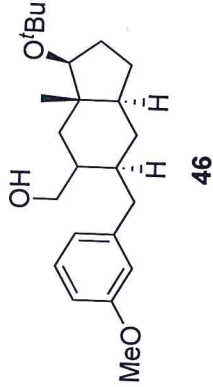
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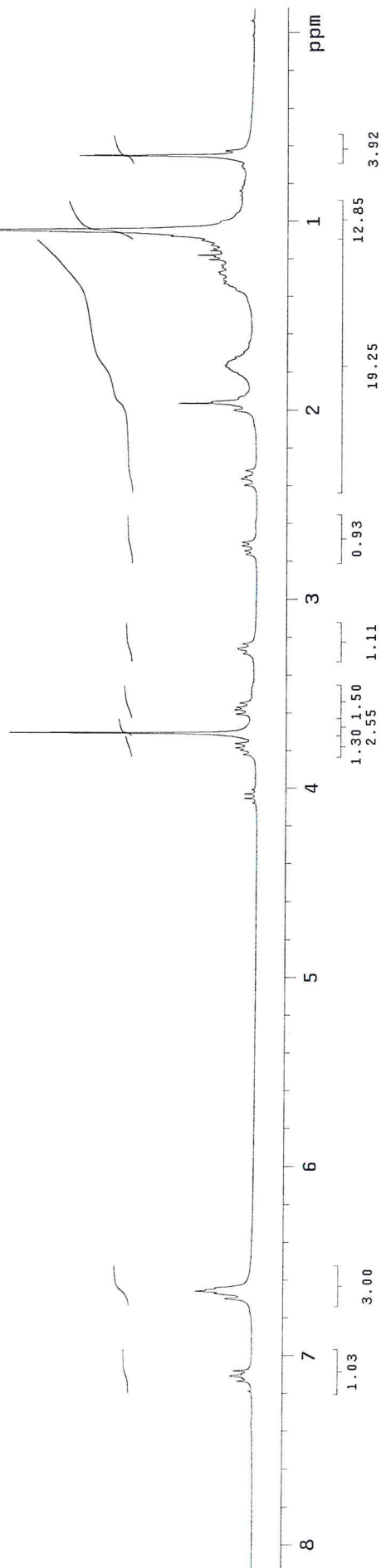
INDEX	FREQUENCY	PPM	HEIGHT
1	12049.986	159.715	5.7
2	11346.837	150.395	8.9
3	10806.305	143.230	9.0
4	9751.580	129.251	16.0
5	9721.805	128.856	5.4
6	9702.337	128.598	6.0
7	9184.709	121.737	14.2
8	8683.114	115.089	14.0
9	8377.347	111.036	15.6
10	8184.954	108.486	11.0
11	6033.133	79.965	13.2
12	5857.918	77.643	7.9
13	5825.853	77.218	8.2
14	5794.932	76.808	7.3
15	5460.536	72.376	9.0
16	4166.465	55.224	14.2
17	3675.177	48.712	13.8
18	3404.911	45.130	15.0
19	3365.974	44.614	10.6
20	3327.038	44.098	19.6
21	2946.833	39.058	17.4
22	2417.753	32.046	15.3
23	2400.575	31.818	15.0
24	2255.135	29.890	13.2
25	2181.843	28.919	51.1
26	1931.045	25.595	15.4
27	841.965	11.160	15.8



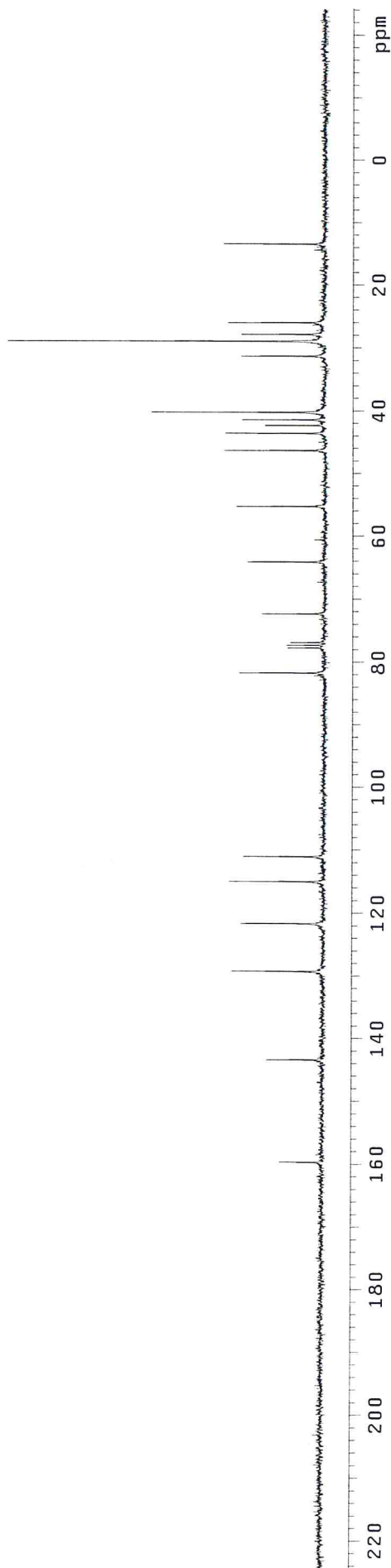
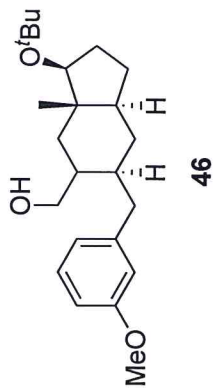
INDEX	FREQUENCY PPM	HEIGHT	INDEX	FREQUENCY PPM	HEIGHT
1	2140.845	7.135	40	507.190	1.690
2	2133.154	7.109	41	398.682	1.329
3	2132.055	7.106	42	393.463	1.311
4	2129.033	7.096	43	383.848	1.279
5	2124.638	7.081	44	380.552	1.268
6	2010.087	6.699	45	373.410	1.245
7	2001.571	6.671	46	369.839	1.233
8	1998.000	6.659	47	360.499	1.201
9	1996.077	6.653	48	356.104	1.187
10	1992.781	6.642	49	353.357	1.178
11	1215.922	4.052	50	349.511	1.165
12	1208.780	4.029	51	346.214	1.154
13	1145.873	3.819	52	343.193	1.144
14	1138.731	3.795	53	337.424	1.125
15	1135.160	3.783	54	329.457	1.098
16	1128.292	3.760	55	323.414	1.078
17	1112.085	3.706	56	316.272	1.054
18	1081.318	3.604	57	313.799	1.046
19	1074.450	3.581	58	299.240	0.997
20	1070.605	3.568	59	265.177	0.884
21	1063.737	3.545	60	258.035	0.860
22	985.447	3.284	61	250.343	0.834
23	978.579	3.261	62	243.476	0.811
24	976.931	3.256	63	236.059	0.787
25	969.514	3.231	64	210.511	0.702
26	828.592	2.762	65	194.304	0.648
27	823.098	2.743	66	186.887	0.623
28	815.131	2.717			
29	809.637	2.698			
30	718.436	2.394			
31	708.821	2.362			
32	705.250	2.350			
33	695.086	2.317			
34	599.215	1.997			
35	588.777	1.962			
36	586.304	1.954			
37	528.617	1.762			
38	525.046	1.750			
39	515.706	1.719			



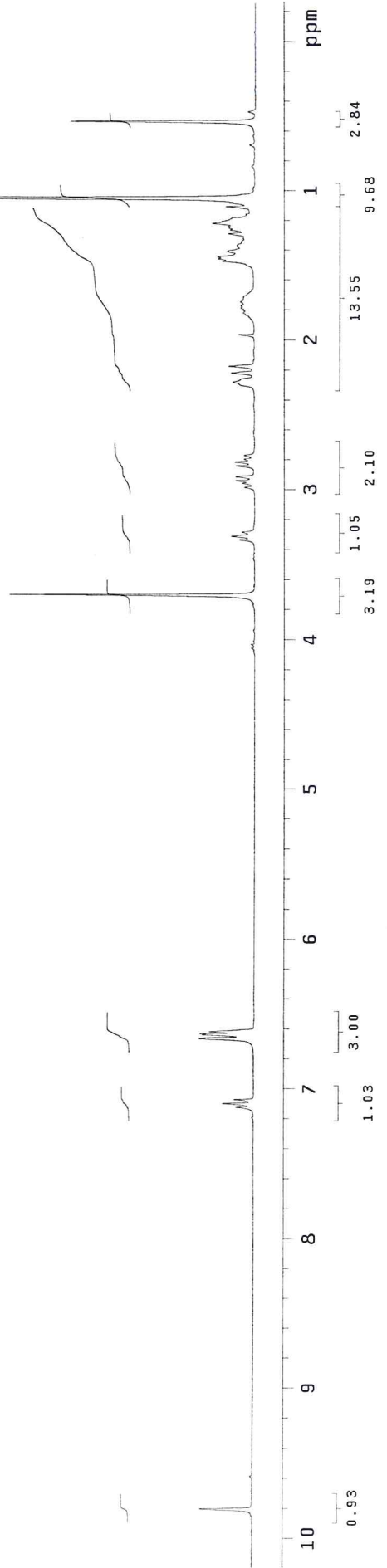
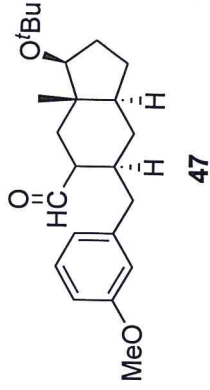
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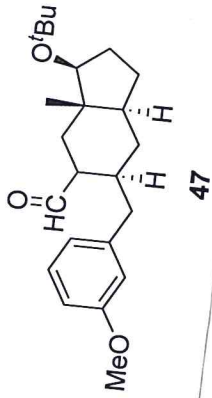
INDEX	FREQUENCY	PPM	HEIGHT
1	12042.888	159.621	6.8
2	10814.094	143.334	8.9
3	9747.918	129.202	14.6
4	9173.030	121.582	13.1
5	8671.435	114.934	15.1
6	8372.539	110.972	12.8
7	6160.023	81.647	13.5
8	5857.691	77.640	5.8
9	5825.626	77.215	6.0
10	5794.706	76.805	5.4
11	5451.147	72.251	10.0
12	4830.452	64.024	12.3
13	4162.803	55.175	14.0
14	3489.429	46.250	16.0
15	3281.003	43.488	15.8
16	3187.097	42.243	9.5
17	3118.385	41.332	13.2
18	3029.060	40.148	27.7
19	2354.540	31.208	13.4
20	2175.890	28.840	50.6
21	2094.581	27.762	13.3
22	1953.722	25.895	15.4
23	1005.501	13.327	16.1



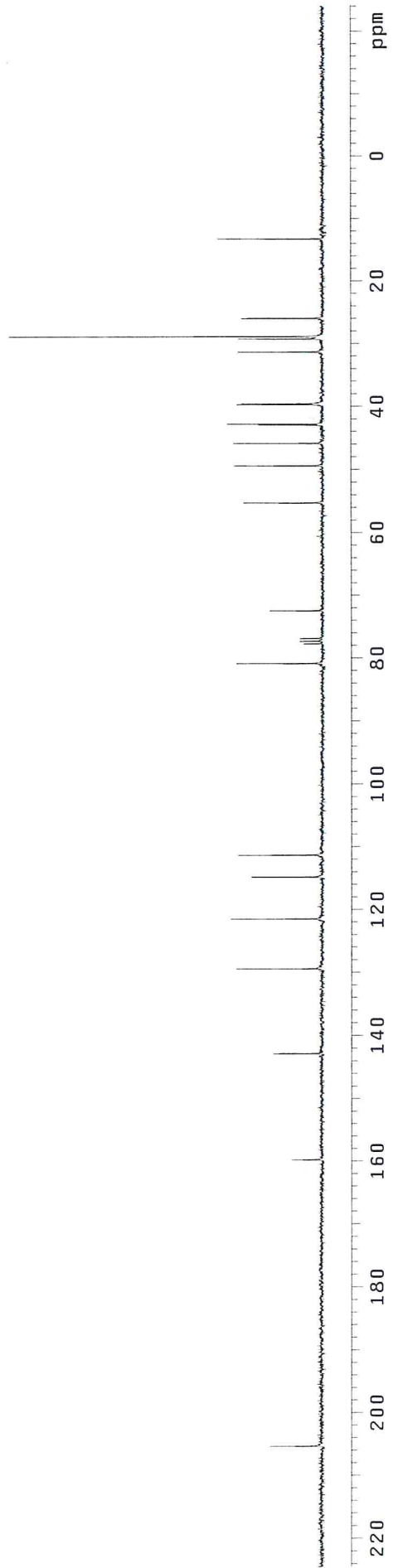
INDEX	FREQUENCY PPM	HEIGHT	INDEX	FREQUENCY PPM	HEIGHT
1	2941.878	9.805	40	401.155	1.337
2	2136.725	7.121	41	394.562	1.315
3	2129.308	7.097	42	385.222	1.284
4	2121.067	7.069	43	377.530	1.258
5	1999.374	6.664	44	373.959	1.246
6	1997.451	6.657	45	371.212	1.237
7	1991.132	6.636	46	364.345	1.214
8	1989.484	6.631	47	359.949	1.200
9	1985.364	6.617	48	353.631	1.179
10	1108.514	3.694	49	352.807	1.176
11	999.182	3.330	50	347.313	1.158
12	992.314	3.307	51	345.665	1.152
13	983.524	3.278	52	330.282	1.101
14	893.971	2.979	53	323.414	1.078
15	885.730	2.952	54	311.876	1.039
16	880.511	2.935	55	157.768	0.526
17	872.544	2.908			
18	850.843	2.836			
19	843.151	2.810			
20	837.382	2.791			
21	829.691	2.765			
22	682.450	2.274			
23	664.320	2.214			
24	650.859	2.169			
25	589.326	1.964			
26	587.952	1.960			
27	548.395	1.828			
28	544.824	1.816			
29	538.781	1.796			
30	534.660	1.782			
31	530.540	1.768			
32	522.573	1.742			
33	511.585	1.705			
34	440.437	1.468			
35	435.767	1.452			
36	431.921	1.440			
37	419.835	1.399			
38	411.319	1.371			
39	408.022	1.360			



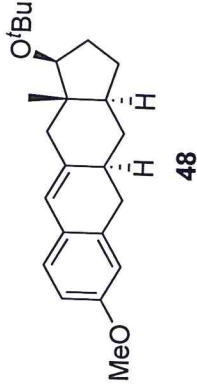
INDEX	FREQUENCY	PPM	HEIGHT
1	15492.215	205.339	8.4
2	12050.905	159.727	4.9
3	10774.012	142.802	7.8
4	9760.515	129.369	13.8
5	9161.578	121.431	14.7
6	8658.838	114.767	11.4
7	8395.443	111.276	13.5
8	6095.892	80.797	13.8
9	5858.836	77.655	3.1
10	5826.771	77.230	3.6
11	5794.706	76.805	3.6
12	5460.309	72.373	8.4
13	4162.803	55.175	12.6
14	3720.758	49.316	14.1
15	3452.782	45.764	14.2
16	3234.050	42.865	10.2
17	3222.598	42.713	15.2
18	2987.833	39.602	13.6
19	2976.381	39.450	13.0
20	2355.686	31.223	13.5
21	2198.794	29.144	13.4
22	2171.309	28.779	50.0
23	1951.432	25.865	13.0
24	990.613	13.130	16.7



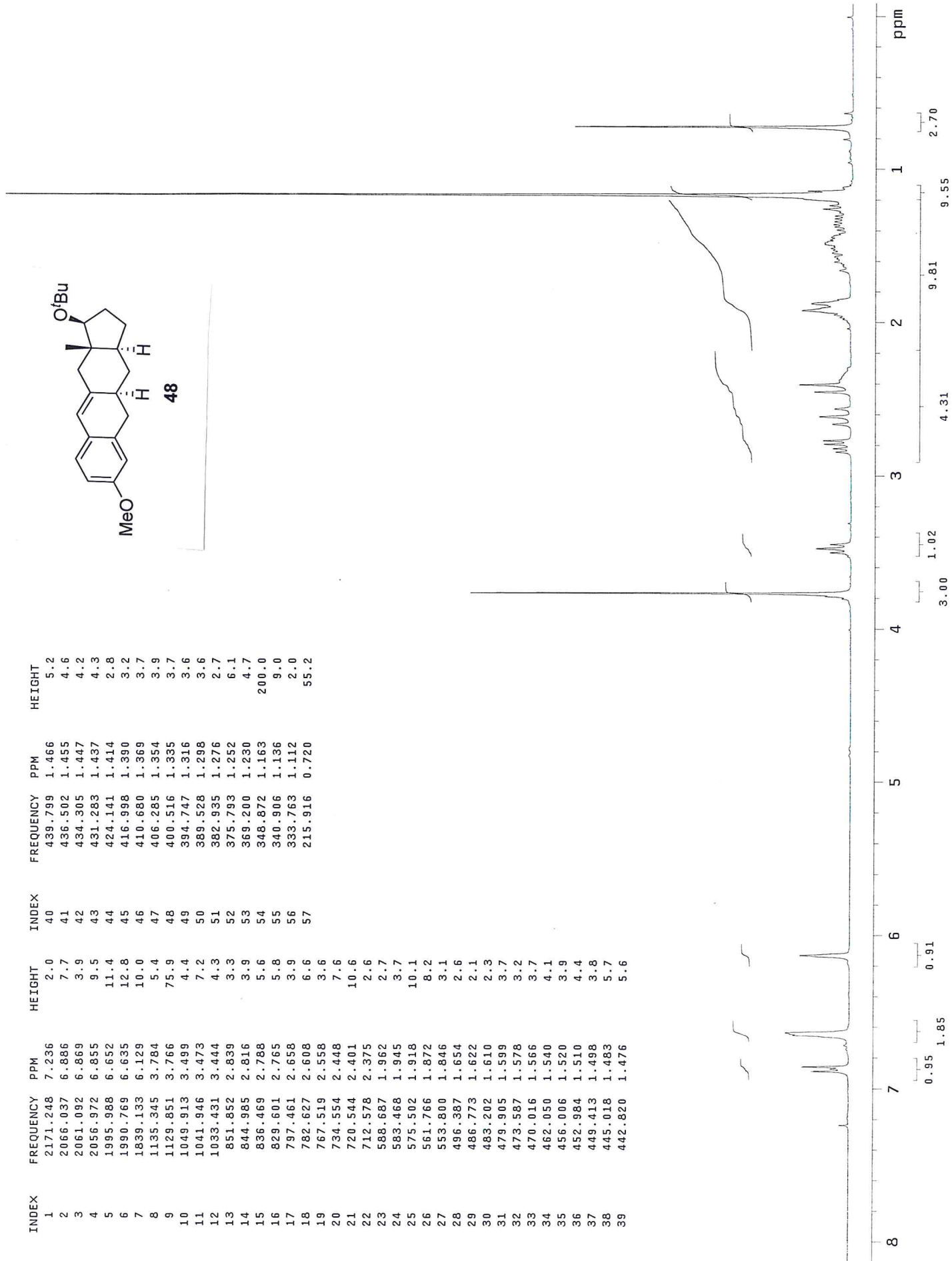
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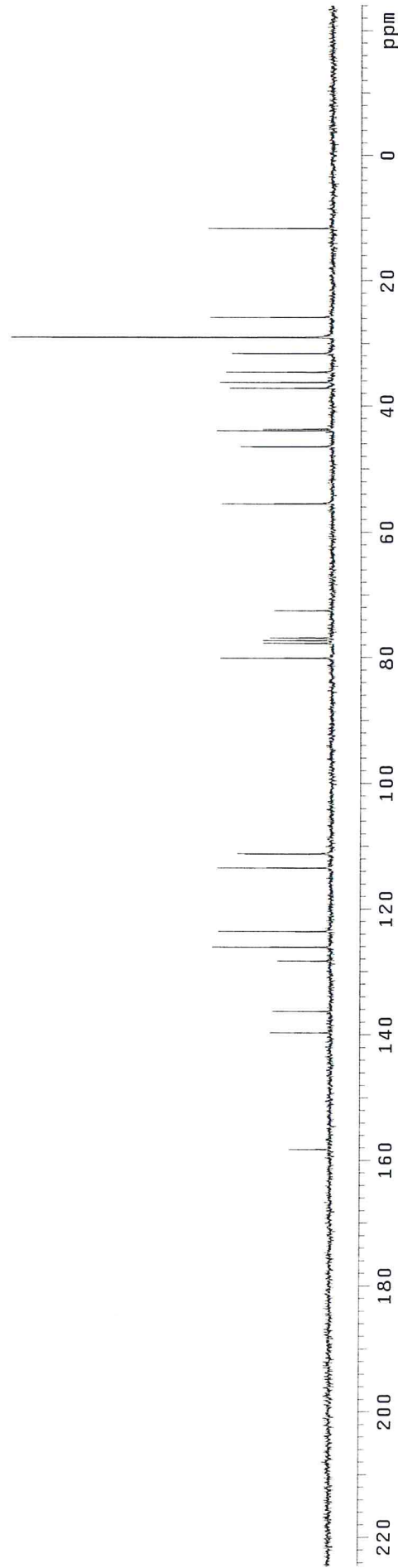
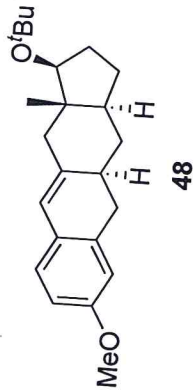
INDEX	FREQUENCY	PPM	HEIGHT	INDEX	FREQUENCY	PPM	HEIGHT
1	2171.248	7.236	2.0	40	439.799	1.466	5.2
2	2066.037	6.886	7.7	41	436.502	1.455	4.6
3	2061.092	6.869	3.9	42	434.305	1.447	4.2
4	2056.972	6.855	9.5	43	431.283	1.437	4.3
5	1995.988	6.652	11.4	44	424.141	1.414	2.8
6	1990.769	6.635	12.8	45	416.998	1.390	3.2
7	1839.133	6.129	10.0	46	410.680	1.369	3.7
8	1135.345	3.784	5.4	47	406.285	1.354	3.9
9	1129.851	3.766	75.9	48	400.516	1.335	3.7
10	1049.913	3.499	4.4	49	394.747	1.316	3.6
11	1041.946	3.473	7.2	50	389.528	1.298	3.6
12	1033.431	3.444	4.3	51	382.935	1.276	2.7
13	851.852	2.839	3.3	52	375.793	1.252	6.1
14	844.985	2.816	3.9	53	369.200	1.230	4.7
15	836.469	2.788	5.6	54	348.872	1.163	200.0
16	829.601	2.765	5.8	55	340.906	1.136	9.0
17	797.461	2.658	3.9	56	333.763	1.112	2.0
18	782.627	2.608	6.6	57	215.916	0.720	55.2
19	767.519	2.558	3.6				
20	734.554	2.448	7.6				
21	720.544	2.401	10.6				
22	712.578	2.375	2.6				
23	588.687	1.962	2.7				
24	583.468	1.945	3.7				
25	575.502	1.918	10.1				
26	561.766	1.872	8.2				
27	553.800	1.846	3.1				
28	496.387	1.654	2.6				
29	486.773	1.622	2.1				
30	483.202	1.610	2.3				
31	479.905	1.599	3.7				
32	473.587	1.578	3.2				
33	470.016	1.566	3.7				
34	462.050	1.540	4.1				
35	456.006	1.520	3.9				
36	452.984	1.510	4.4				
37	449.413	1.498	3.8				
38	445.018	1.483	5.7				
39	442.820	1.476	5.6				



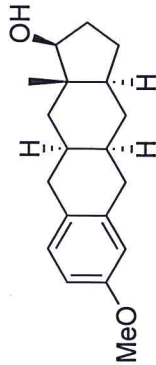
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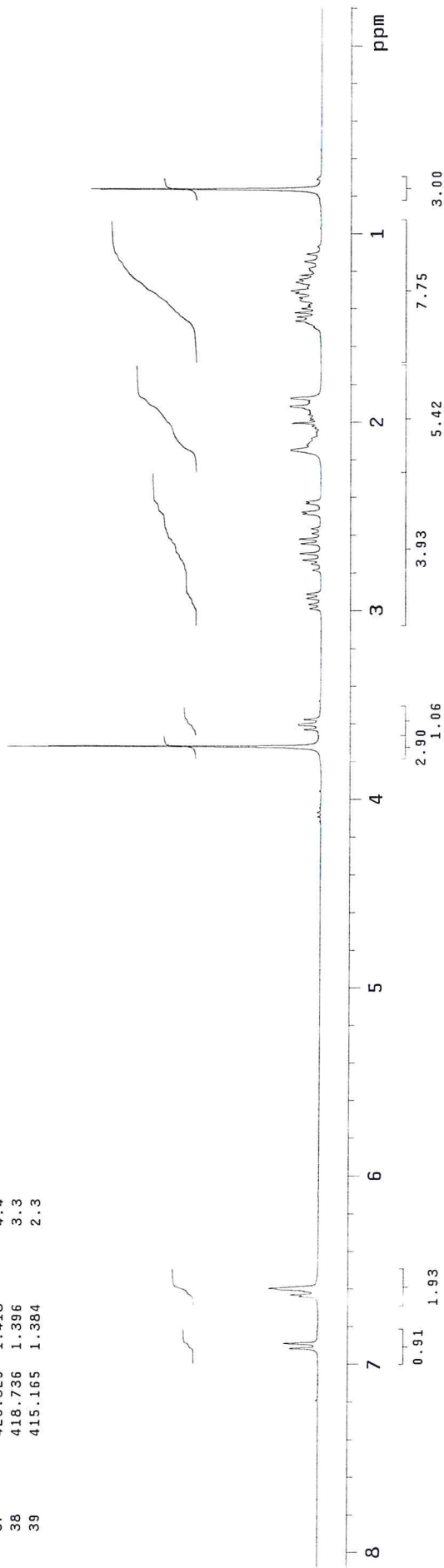
INDEX	FREQUENCY	PPM	HEIGHT
1	11936.385	158.209	6.6
2	10534.666	139.630	9.7
3	10280.433	136.260	9.4
4	9676.915	128.261	8.6
5	9509.717	126.045	19.1
6	9320.760	123.541	18.1
7	8555.770	113.401	18.3
8	8386.281	111.155	15.1
9	6038.632	80.038	17.9
10	5857.691	77.640	11.0
11	5825.625	77.215	11.1
12	5793.560	76.790	10.0
13	5466.034	72.449	9.3
14	4181.126	55.418	17.7
15	3499.735	46.387	14.7
16	3307.342	43.837	18.5
17	3287.874	43.579	11.2
18	2796.585	37.067	16.4
19	2725.583	36.126	18.1
20	2601.902	34.486	17.1
21	2377.444	31.511	16.1
22	2183.906	28.946	51.5
23	1943.415	25.759	19.6
24	869.222	11.521	19.9



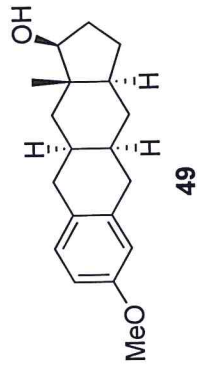
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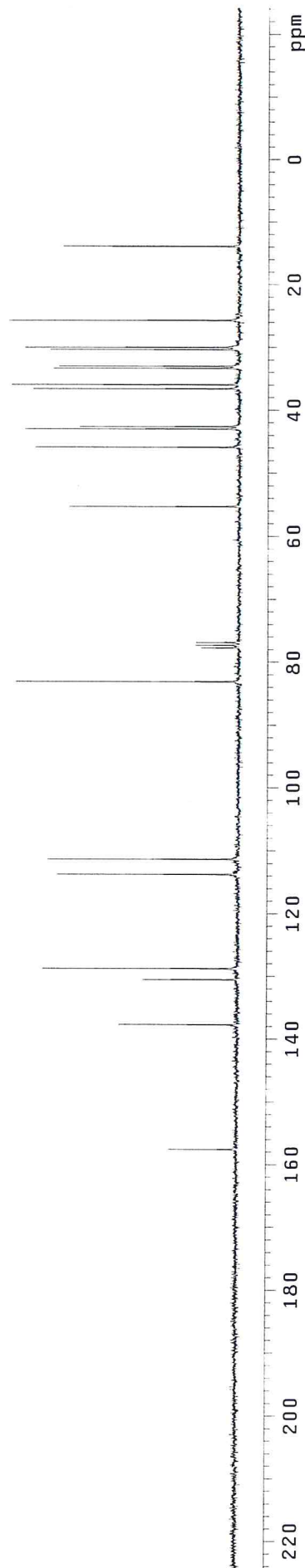
INDEX	FREQUENCY PPM	HEIGHT	INDEX	FREQUENCY PPM	HEIGHT
1	2075.191	6.916	40	412.418	1.375
2	2067.225	6.890	41	404.726	1.349
3	1992.231	6.640	42	401.429	1.338
4	1989.759	6.631	43	394.287	1.314
5	1979.595	6.598	44	390.441	1.301
6	1115.930	3.719	45	384.947	1.283
7	1088.735	3.629	46	376.706	1.255
8	1079.944	3.599	47	372.586	1.242
9	1072.253	3.574	48	371.762	1.239
10	895.619	2.985	49	365.443	1.218
11	889.026	2.963	50	358.301	1.194
12	879.412	2.931	51	357.477	1.191
13	872.819	2.909	52	354.730	1.182
14	818.428	2.728	53	343.193	1.144
15	808.264	2.694	54	331.380	1.104
16	792.606	2.642	55	227.818	0.759
17	785.189	2.617			
18	745.357	2.484			
19	742.335	2.474			
20	729.149	2.430			
21	726.128	2.420			
22	643.717	2.145			
23	635.476	2.118			
24	625.037	2.083			
25	600.863	2.003			
26	595.919	1.986			
27	592.897	1.976			
28	587.128	1.957			
29	584.107	1.947			
30	582.184	1.940			
31	581.360	1.938			
32	573.668	1.912			
33	566.526	1.888			
34	561.032	1.870			
35	438.789	1.462			
36	432.196	1.440			
37	425.329	1.418			
38	418.736	1.396			
39	415.165	1.384			



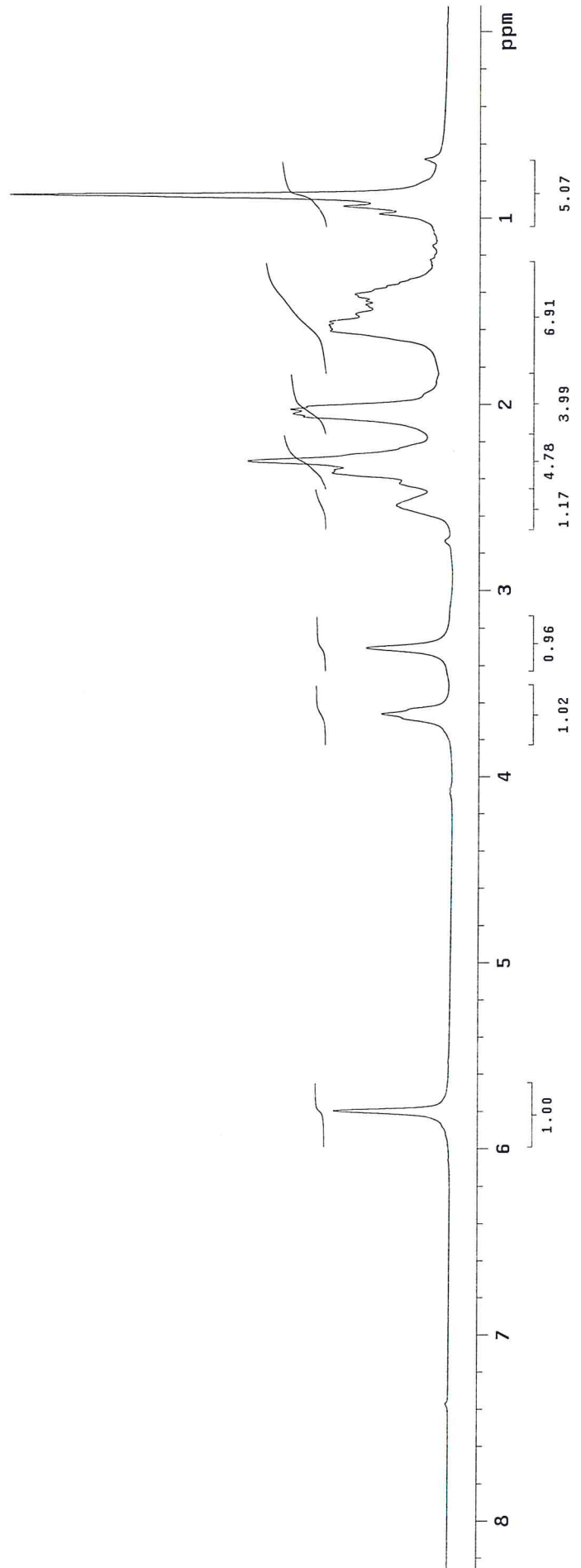
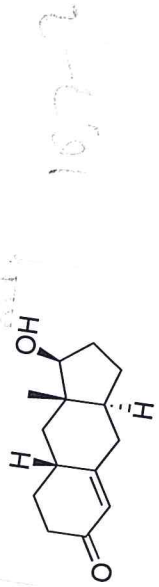
INDEX	FREQUENCY	PPM	HEIGHT
1	11887.142	157.556	10.8
2	10385.792	137.657	18.8
3	9844.115	130.477	15.1
4	9710.127	128.701	31.1
5	8577.529	113.689	28.8
6	8395.443	111.276	30.3
7	6265.381	83.043	35.4
8	5858.837	77.855	5.9
9	5826.772	77.230	6.8
10	5794.706	76.805	6.8
11	4167.384	55.236	27.0
12	3455.073	45.795	32.4
13	3237.486	42.911	34.0
14	3208.856	42.531	25.3
15	2754.214	36.505	32.8
16	2704.971	35.853	36.2
17	2507.997	33.242	29.5
18	2482.803	32.908	28.6
19	2282.394	30.252	30.0
20	2254.909	29.887	34.0
21	1930.819	25.592	36.7
22	1039.857	13.783	28.0



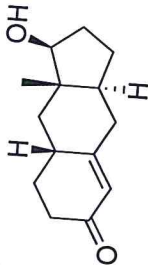
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INDEX	FREQUENCY	PPM	HEIGHT
1	1739.074	5.796	18.5
2	1097.644	3.658	11.0
3	991.334	3.304	13.5
4	761.957	2.539	8.7
5	726.521	2.421	8.2
6	710.588	2.368	19.0
7	693.557	2.311	30.7
8	691.359	2.304	32.5
9	619.112	2.063	23.6
10	614.717	2.049	25.2
11	607.300	2.024	25.7
12	602.905	2.009	23.1
13	481.212	1.604	19.3
14	471.872	1.573	19.6
15	466.927	1.556	19.5
16	454.565	1.515	15.3
17	439.182	1.464	13.7
18	432.864	1.443	13.6
19	422.425	1.408	15.4
20	366.935	1.223	3.4
21	343.311	1.144	3.0
22	292.216	0.974	11.6
23	280.129	0.934	17.2
24	261.450	0.871	70.7
25	203.762	0.679	4.3

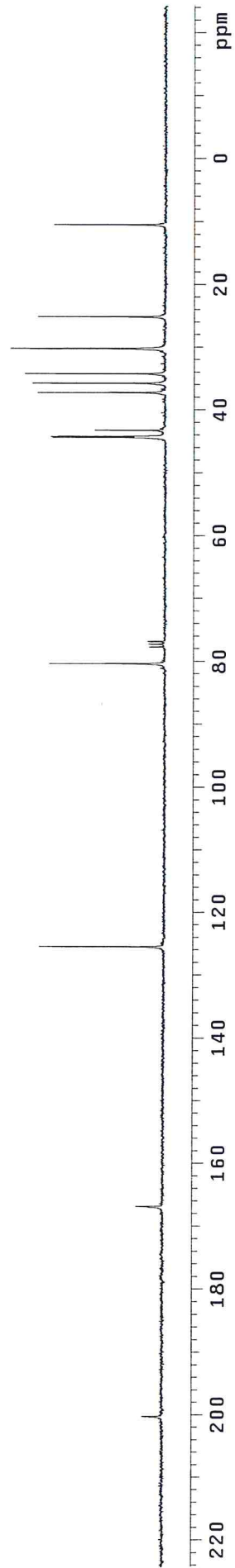


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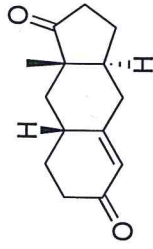


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INDEX	FREQUENCY	PPM	HEIGHT
1	15108.576	200.254	3.3
2	12588.002	166.846	4.3
3	9462.765	125.423	20.0
4	6060.392	80.326	18.4
5	5858.837	77.655	2.4
6	5825.627	77.215	2.5
7	5793.561	76.790	2.7
8	3343.990	44.322	18.0
9	3331.393	44.155	18.3
10	3256.955	43.169	11.3
11	2804.603	37.173	20.4
12	2691.229	35.670	21.2
13	2576.709	34.153	22.4
14	2275.523	30.161	21.6
15	2269.797	30.085	24.7
16	1890.737	25.060	20.4
17	781.044	10.352	17.8

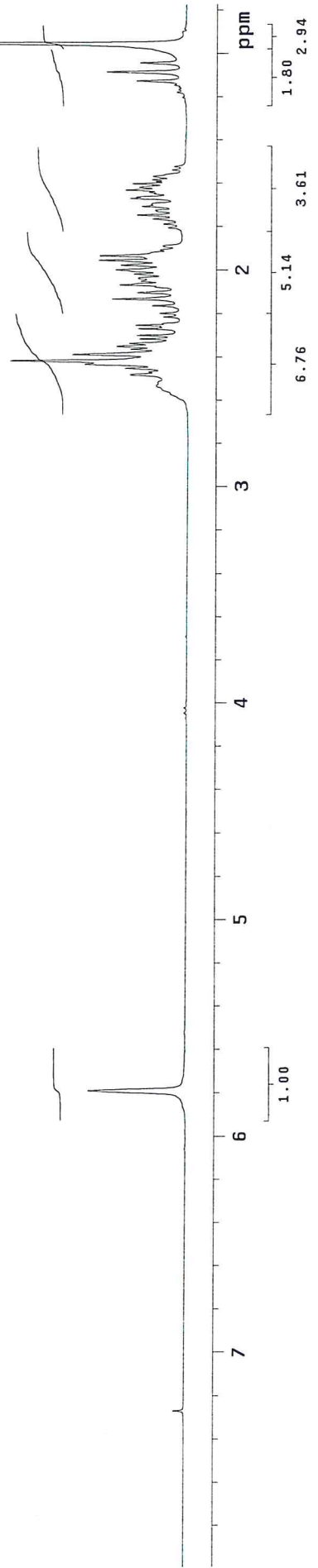


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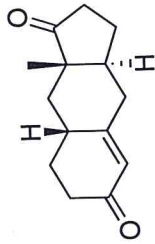
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INDEX	FREQUENCY PPM	HEIGHT	INDEX	FREQUENCY PPM	HEIGHT
1	1737.701	5.791	40	511.704	1.705
2	760.035	2.533	41	509.231	1.697
3	755.365	2.517	42	500.716	1.669
4	744.377	2.481	43	498.793	1.662
5	740.256	2.467	44	494.123	1.647
6	735.312	2.451	45	492.200	1.640
7	729.817	2.432	46	489.178	1.630
8	725.148	2.417	47	485.332	1.618
9	716.357	2.387	48	480.388	1.601
10	708.665	2.362	49	477.366	1.591
11	704.820	2.349	50	474.619	1.582
12	700.699	2.335	51	469.949	1.566
13	694.381	2.314	52	337.542	1.125
14	689.436	2.298	53	324.906	1.083
15	680.371	2.268	54	312.270	1.041
16	677.899	2.259	55	286.173	0.954
17	675.426	2.251			
18	673.229	2.244			
19	663.889	2.213			
20	658.944	2.196			
21	648.506	2.161			
22	639.440	2.131			
23	630.650	2.102			
24	622.684	2.075			
25	619.936	2.066			
26	614.992	2.050			
27	610.871	2.036			
28	605.103	2.017			
29	599.334	1.997			
30	592.741	1.975			
31	586.148	1.954			
32	580.105	1.933			
33	571.864	1.906			
34	566.095	1.887			
35	535.878	1.786			
36	529.010	1.763			
37	523.516	1.745			
38	518.297	1.727			
39	516.923	1.723			

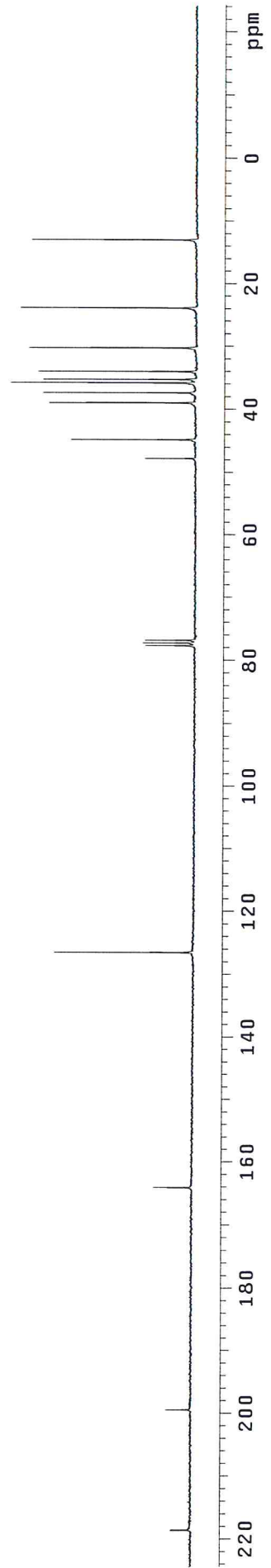


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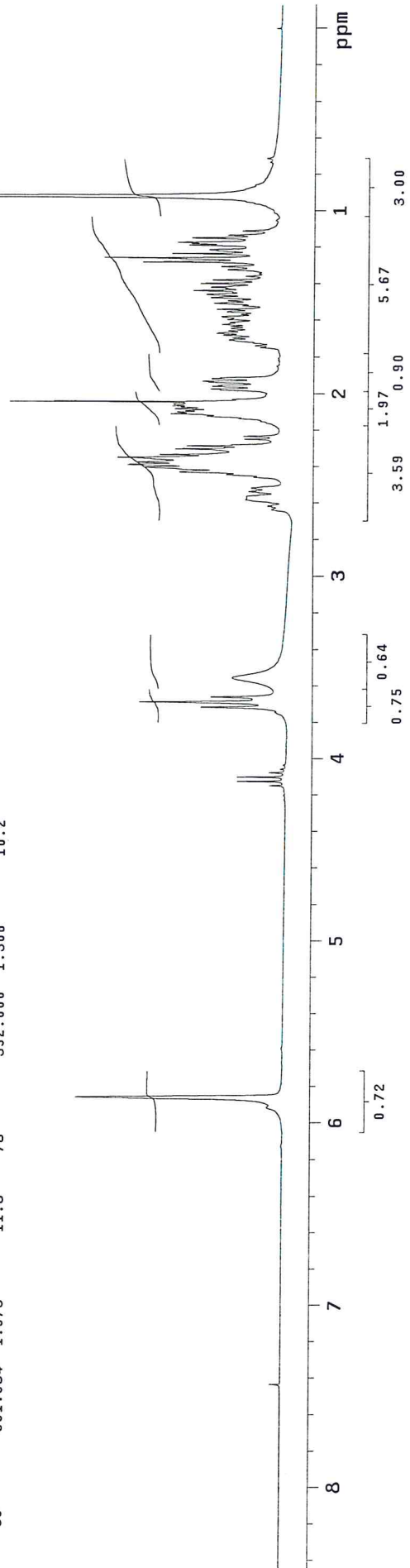
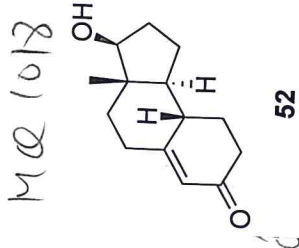
INDEX	FREQUENCY	PPM	HEIGHT
1	16491.970	218.590	3.2
2	15046.734	199.435	4.1
3	12377.285	164.053	6.2
4	9542.928	126.485	22.3
5	5856.546	77.625	7.9
6	5824.481	77.200	8.3
7	5792.415	76.775	8.0
8	3599.367	47.707	8.1
9	3373.764	44.717	19.9
10	2934.009	38.888	23.5
11	2813.764	37.295	24.5
12	2694.664	35.716	29.7
13	2654.582	35.185	24.4
14	2559.531	33.925	25.3
15	2275.522	30.161	26.7
16	1794.540	23.785	28.1
17	971.145	12.872	26.3



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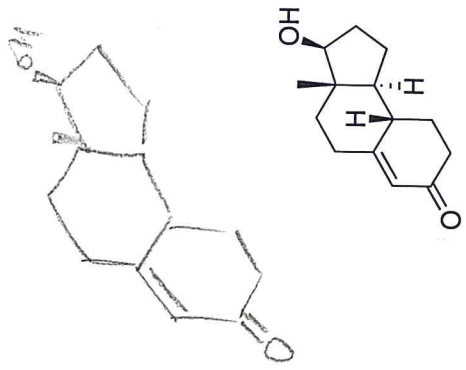


INDEX	FREQUENCY PPM	HEIGHT	INDEX	FREQUENCY PPM	HEIGHT	INDEX	FREQUENCY PPM	HEIGHT	INDEX	FREQUENCY PPM	HEIGHT
1	1758.370	5.860	40	587.863	1.959	79	384.583	1.282	79	384.583	22.7
2	1237.534	4.124	41	585.940	1.953	80	377.441	1.258	80	377.441	28.9
3	1230.392	4.101	42	580.996	1.936	81	370.299	1.234	81	370.299	18.1
4	1115.292	3.717	43	579.347	1.931	82	363.981	1.213	82	363.981	12.2
5	1106.776	3.689	44	575.227	1.917	83	356.564	1.188	83	356.564	15.4
6	1097.986	3.659	45	573.853	1.913	84	353.817	1.179	84	353.817	15.0
7	1066.670	3.555	46	524.132	1.747	85	351.894	1.173	85	351.894	17.2
8	774.111	2.580	47	520.836	1.736	86	344.752	1.149	86	344.752	14.9
9	769.991	2.566	48	516.715	1.722	87	340.082	1.133	87	340.082	9.2
10	760.926	2.536	49	511.771	1.706	88	332.665	1.109	88	332.665	6.9
11	755.157	2.517	50	508.749	1.696	89	287.613	0.959	89	287.613	5.0
12	737.027	2.456	51	504.079	1.680	90	276.351	0.921	90	276.351	200.0
13	733.181	2.444	52	501.057	1.670						
14	729.060	2.430	53	497.211	1.657						
15	721.369	2.404	54	493.366	1.644						
16	716.973	2.390	55	489.794	1.632						
17	713.128	2.377	56	486.773	1.622						
18	705.436	2.351	57	483.476	1.611						
19	700.217	2.334	58	478.532	1.595						
20	690.877	2.303	59	477.158	1.590						
21	688.679	2.295	60	473.862	1.579						
22	685.932	2.286	61	470.016	1.566						
23	684.009	2.280	62	466.170	1.554						
24	674.394	2.248	63	461.775	1.539						
25	669.450	2.231	64	456.006	1.520						
26	645.001	2.150	65	452.160	1.507						
27	640.331	2.134	66	447.765	1.492						
28	636.760	2.122	67	442.820	1.476						
29	632.914	2.109	68	437.601	1.458						
30	630.167	2.100	69	434.030	1.447						
31	627.695	2.092	70	431.558	1.438						
32	624.673	2.082	71	428.261	1.427						
33	621.652	2.072	72	425.789	1.419						
34	619.729	2.065	73	419.471	1.398						
35	616.707	2.055	74	413.702	1.379						
36	613.136	2.043	75	407.384	1.358						
37	609.015	2.030	76	402.988	1.343						
38	593.632	1.978	77	396.945	1.323						
39	591.984	1.973	78	392.000	1.306						

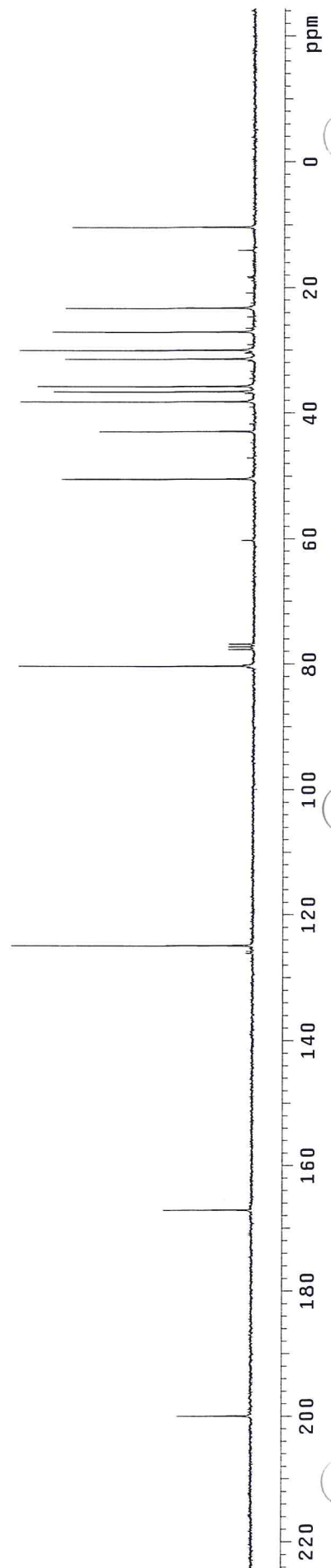


1018

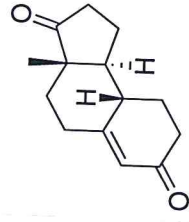
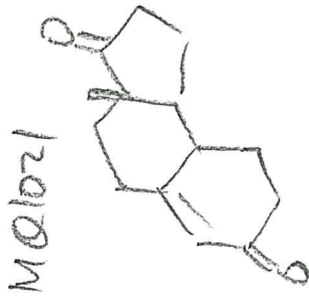
INDEX	FREQUENCY	PPM	HEIGHT
1	15085.672	199.951	12.0
2	12605.180	167.073	14.4
3	9419.248	124.846	38.9
4	6058.102	80.296	37.9
5	3802.068	50.394	31.0
6	3234.051	42.865	25.0
7	2877.896	38.145	37.7
8	2757.650	36.551	32.3
9	2694.664	35.716	34.9
10	2365.994	31.360	30.5
11	2259.490	29.948	37.8
12	2039.613	27.034	32.6
13	1751.024	23.209	30.4
14	776.463	10.292	29.4



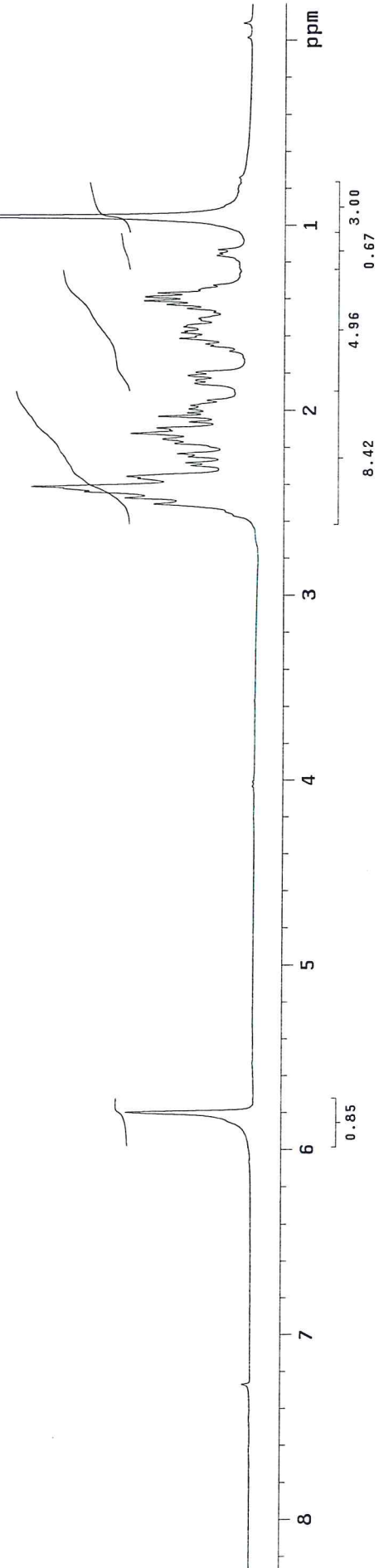
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INDEX	FREQUENCY	PPM	HEIGHT	INDEX	FREQUENCY	PPM	HEIGHT
1	1740.448	5.801	20.2	40	422.975	1.410	17.7
2	751.794	2.506	16.1	41	416.657	1.389	17.6
3	742.179	2.474	20.8	42	410.339	1.368	15.6
4	732.290	2.441	27.2	43	405.119	1.350	9.2
5	724.049	2.413	35.6	44	397.427	1.325	6.7
6	710.588	2.368	18.7	45	348.805	1.162	6.2
7	707.017	2.356	20.5	46	344.959	1.150	5.8
8	689.161	2.297	10.3	47	338.916	1.130	6.0
9	684.492	2.281	11.1	48	286.173	0.954	100.0
10	674.602	2.248	10.7				
11	669.932	2.233	12.5				
12	653.175	2.177	12.8				
13	646.308	2.154	14.7				
14	637.243	2.124	19.9				
15	628.178	2.094	15.7				
16	618.288	2.061	10.5				
17	609.498	2.031	15.4				
18	603.729	2.012	10.8				
19	597.411	1.991	10.6				
20	591.642	1.972	10.3				
21	583.401	1.944	7.7				
22	555.931	1.853	9.7				
23	550.711	1.835	9.5				
24	543.294	1.811	10.8				
25	538.625	1.795	9.5				
26	504.287	1.681	4.1				
27	496.320	1.654	7.3				
28	492.749	1.642	7.9				
29	483.959	1.613	12.1				
30	480.937	1.603	9.6				
31	474.894	1.583	11.8				
32	472.147	1.574	11.4				
33	465.004	1.550	11.5				
34	462.532	1.542	11.0				
35	454.566	1.515	8.7				
36	451.819	1.506	9.1				
37	441.380	1.471	6.7				
38	435.336	1.451	10.9				
39	429.018	1.430	14.1				

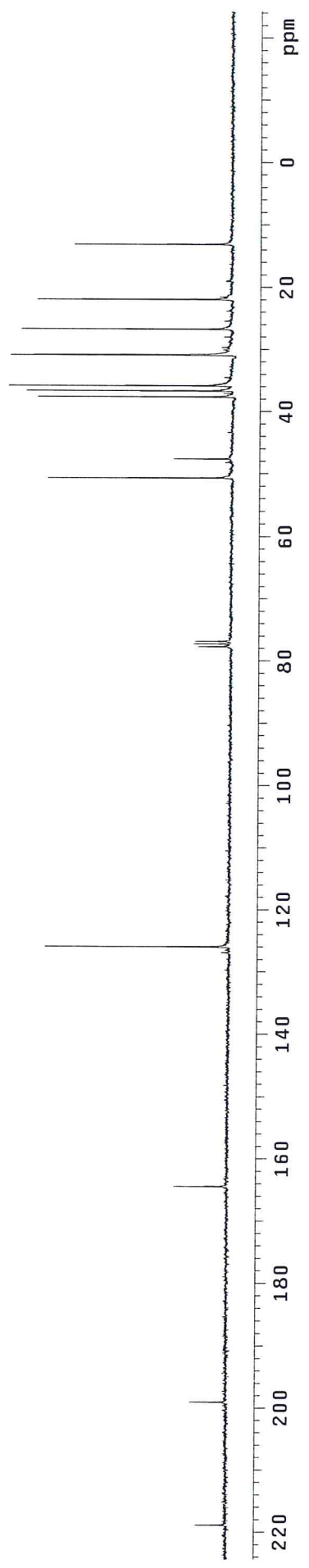
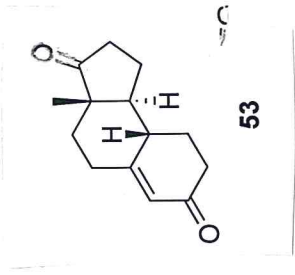


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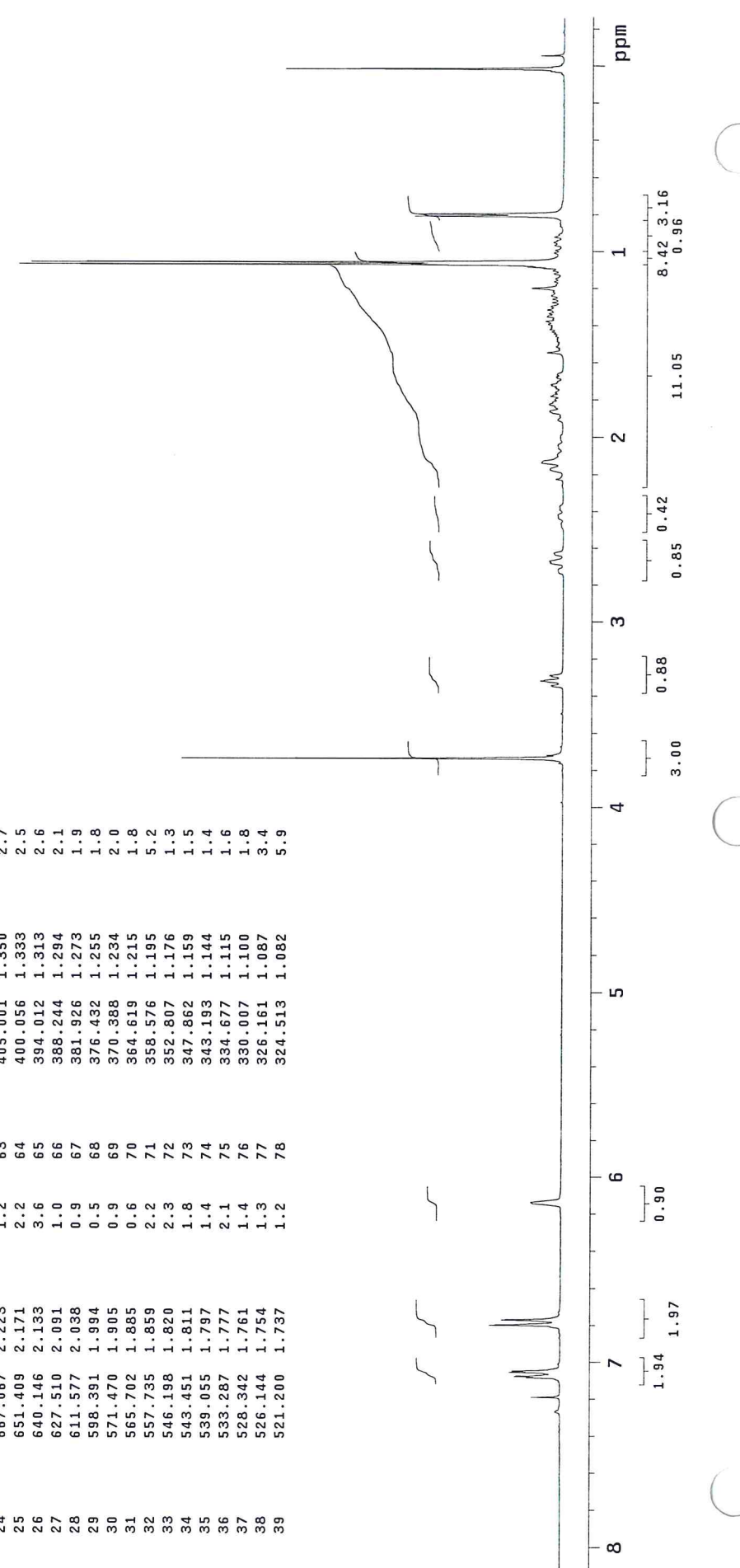
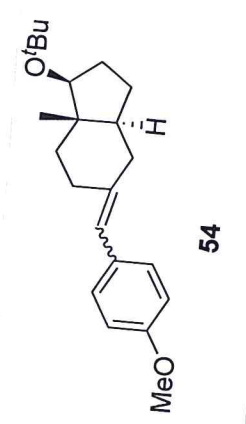
INDEX	FREQUENCY	PPM	HEIGHT
1	16513.729	218.879	4.8
2	15016.960	199.040	5.8
3	12404.770	164.417	8.6
4	9500.556	125.924	29.7
5	5857.692	77.640	5.2
6	5825.626	77.215	5.9
7	5793.561	76.790	5.7
8	3818.100	50.606	29.6
9	3587.916	47.555	9.3
10	2834.377	37.568	31.3
11	2762.230	36.612	33.1
12	2699.244	35.777	36.0
13	2327.056	30.844	35.7
14	2321.330	30.768	31.9
15	2010.982	26.654	34.0
16	1650.246	21.873	31.4
17	982.597	13.024	25.4



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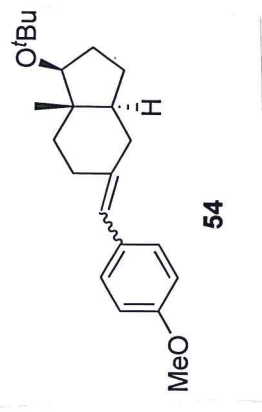
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INDEX	FREQUENCY PPM	HEIGHT	INDEX	FREQUENCY PPM	HEIGHT	INDEX	FREQUENCY PPM	HEIGHT	INDEX	FREQUENCY PPM	HEIGHT
1	2180.952	7.269	40	519.002	1.730	79	320.118	1.067	87.4		
2	2157.053	7.189	41	516.255	1.721	80	316.546	1.055	85.5		
3	2125.187	7.083	42	514.332	1.714	81	300.888	1.003	1.6		
4	2122.990	7.076	43	511.585	1.705	82	297.043	0.990	1.4		
5	2116.397	7.054	44	504.168	1.680	83	288.252	0.961	1.5		
6	2114.199	7.046	45	502.245	1.674	84	284.132	0.947	1.6		
7	2039.480	6.797	46	498.949	1.663	85	280.835	0.936	1.2		
8	2031.239	6.770	47	497.026	1.656	86	275.066	0.917	1.6		
9	1841.145	6.136	49	462.963	1.543	87	270.946	0.903	0.8		
10	1127.743	3.759	49	457.194	1.524	88	256.936	0.856	0.6		
11	1120.600	3.735	50	453.348	1.511	89	253.365	0.844	0.6		
12	1114.832	3.716	51	448.404	1.494	90	241.278	0.804	23.9		
13	1002.478	3.341	52	444.832	1.483	91	237.982	0.793	23.3		
14	995.061	3.316	53	440.987	1.470	92	12.176	0.041	0.5		
15	987.919	3.293	54	436.866	1.456	93	7.231	0.024	2.3		
16	986.271	3.287	55	432.746	1.442	94	3.660	0.012	44.7		
17	815.406	2.718	56	429.174	1.430	95	0.089	0.000	2.1		
18	803.319	2.667	57	425.329	1.418	96	-3.757	-0.013	0.5		
19	800.297	2.667	58	423.406	1.411	97	-18.041	-0.060	3.8		
20	787.661	2.625	59	420.933	1.403						
21	724.480	2.415	60	416.813	1.389						
22	716.238	2.387	61	412.143	1.374						
23	711.294	2.371	62	409.121	1.364						
24	667.067	2.223	63	405.001	1.350						
25	651.409	2.171	64	400.056	1.333						
26	640.146	2.133	65	394.012	1.313						
27	627.510	2.091	66	388.244	1.294						
28	611.577	2.038	67	381.926	1.273						
29	598.391	1.994	68	376.432	1.255						
30	571.470	1.905	69	370.388	1.234						
31	565.702	1.885	70	364.619	1.215						
32	557.735	1.859	71	358.576	1.195						
33	546.198	1.820	72	352.807	1.176						
34	543.451	1.811	73	347.862	1.159						
35	539.055	1.797	74	343.193	1.144						
36	533.287	1.777	75	334.677	1.115						
37	528.342	1.761	76	330.007	1.100						
38	526.144	1.754	77	326.161	1.087						
39	521.200	1.737	78	324.513	1.082						

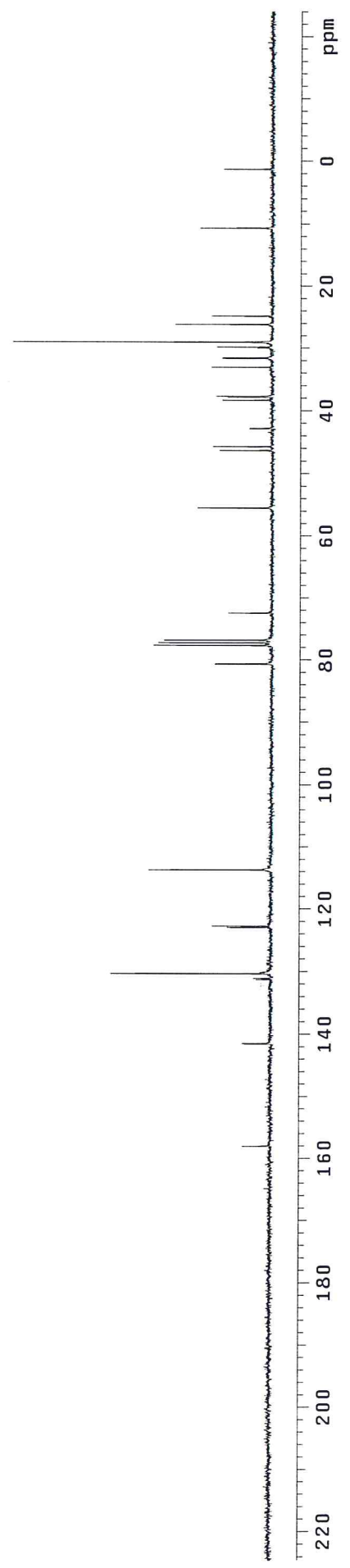


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INDEX	FREQUENCY	PPM	HEIGHT
1	11919.207	157.981	4.5
2	10678.961	141.543	4.2
3	10670.944	141.436	4.6
4	9902.519	131.251	2.4
5	9887.631	131.054	2.8
6	9831.516	130.310	25.9
7	9273.807	122.918	7.1
8	9257.774	122.706	9.6
9	8576.383	113.674	19.9
10	6083.294	80.630	9.2
11	6077.568	80.554	9.1
12	5856.545	77.625	19.1
13	5824.480	77.200	18.3
14	5792.415	76.775	17.4
15	5461.453	72.388	7.1
16	4181.125	55.418	12.0
17	3489.428	46.250	8.5
18	3443.620	45.643	9.6
19	3228.323	42.789	3.7
20	3223.743	42.729	3.6
21	2885.910	38.251	8.0
22	2846.974	37.735	7.2
23	2838.957	37.629	9.0
24	2488.528	32.984	9.8
25	2380.879	31.557	8.1
26	2370.573	31.420	8.0
27	2256.053	29.902	2.4
28	2243.456	29.736	8.9
29	2183.906	28.946	41.9
30	1968.609	26.093	15.7
31	1866.687	24.742	9.9
32	797.075	10.565	11.7
33	90.490	1.199	8.0

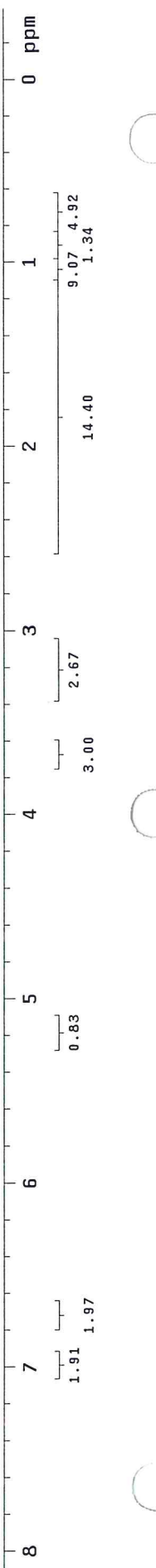
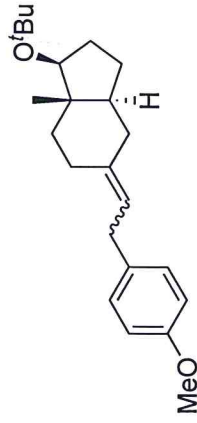


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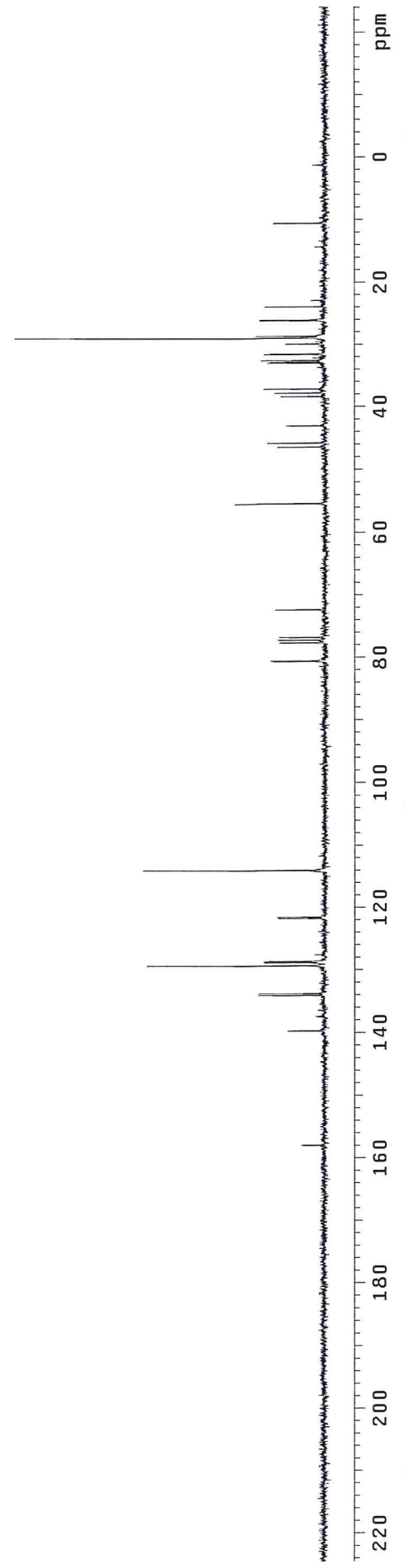
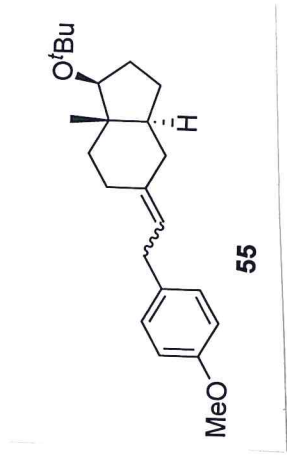
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INDEX	FREQUENCY PPM	HEIGHT	INDEX	FREQUENCY PPM	HEIGHT	INDEX	FREQUENCY PPM	HEIGHT	INDEX	FREQUENCY PPM	HEIGHT
1	2177.841	7.258	1.5	40	531.275	1.771	79	279.922	0.933	2.1	
2	2173.720	7.245	4.2	41	527.429	1.758	80	272.230	0.907	1.7	
3	2169.875	7.232	31.1	42	525.231	1.750	81	265.637	0.885	1.6	
4	2167.128	7.223	9.8	43	522.759	1.742	82	238.991	0.797	5.9	
5	2164.930	7.215	6.9	44	510.122	1.700	83	226.355	0.754	30.3	
6	2161.084	7.202	1.7	45	505.178	1.684	84	224.432	0.748	26.5	
7	2137.460	7.124	1.9	46	502.705	1.675	85	218.388	0.728	2.2	
8	2102.298	7.007	7.8	47	495.288	1.651	86	-0.000	-0.000	12.1	
9	2100.650	7.001	7.8	48	490.619	1.635	87	-24.723	-0.082	1.4	
10	2093.782	6.978	10.0	49	486.498	1.621					
11	2091.859	6.972	7.3	50	472.488	1.575					
12	2023.733	6.745	16.2	51	437.052	1.457					
13	2017.140	6.723	6.0	52	430.733	1.436					
14	2015.217	6.716	11.7	53	427.712	1.425					
15	1565.529	5.218	1.7	54	424.965	1.416					
16	1560.310	5.200	2.7	55	421.394	1.404					
17	1558.112	5.193	2.7	56	418.921	1.396					
18	1109.248	3.697	5.3	57	414.526	1.382					
19	1102.381	3.674	69.2	58	412.328	1.374					
20	997.719	3.325	2.8	59	406.560	1.355					
21	990.302	3.300	4.3	60	403.263	1.344					
22	988.929	3.296	4.0	61	395.022	1.317					
23	981.787	3.272	3.7	62	392.550	1.308					
24	970.249	3.234	2.4	63	390.077	1.300					
25	966.953	3.223	2.7	64	383.759	1.279					
26	959.810	3.199	6.2	65	376.342	1.254					
27	952.668	3.175	4.0	66	371.398	1.238					
28	748.015	2.493	2.3	67	365.629	1.219					
29	737.576	2.458	1.6	68	352.718	1.176					
30	604.345	2.014	2.4	69	341.180	1.137					
31	592.258	1.974	4.0	70	326.346	1.088					
32	589.511	1.965	3.9	71	314.260	1.047					
33	582.644	1.942	2.5	72	312.337	1.041					
34	576.326	1.921	1.4	73	301.623	1.005					
35	551.328	1.837	1.5	74	299.700	0.999					
36	549.680	1.832	1.7	75	297.503	0.992					
37	545.559	1.818	2.0	76	293.108	0.977					
38	540.614	1.802	2.0	77	288.438	0.961					
39	536.769	1.789	2.1	78	284.592	0.948					



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INDEX	FREQUENCY	PPM	HEIGHT
1	11916.917	157.951	3.7
2	10541.538	139.721	5.9
3	10113.235	134.044	10.7
4	10093.766	133.786	10.7
5	9758.224	129.339	28.9
6	9721.578	128.853	9.6
7	9710.126	128.701	9.8
8	9703.255	128.610	8.9
9	9185.627	121.749	7.4
10	9168.449	121.522	7.5
11	8601.578	114.008	29.5
12	6084.440	80.645	8.1
13	6078.714	80.569	8.6
14	5857.691	77.640	7.1
15	5825.626	77.215	7.4
16	5794.705	76.805	7.2
17	5458.018	72.342	7.9
18	4179.981	55.403	14.7
19	3503.170	46.432	7.5
20	3455.072	45.795	9.1
21	3246.647	43.032	6.1
22	2895.072	38.372	7.0
23	2851.555	37.795	7.9
24	2802.311	37.143	9.8
25	2488.528	32.984	9.2
26	2473.640	32.786	8.7
27	2454.172	32.528	10.3
28	2382.025	31.572	9.7
29	2376.299	31.496	8.7
30	2254.908	29.887	6.2
31	2182.761	28.931	50.0
32	2161.002	28.643	11.2
33	1973.190	26.153	10.5
34	1962.884	26.017	10.4
35	1803.701	23.907	9.6
36	797.075	10.565	8.2
37	793.640	10.519	8.0



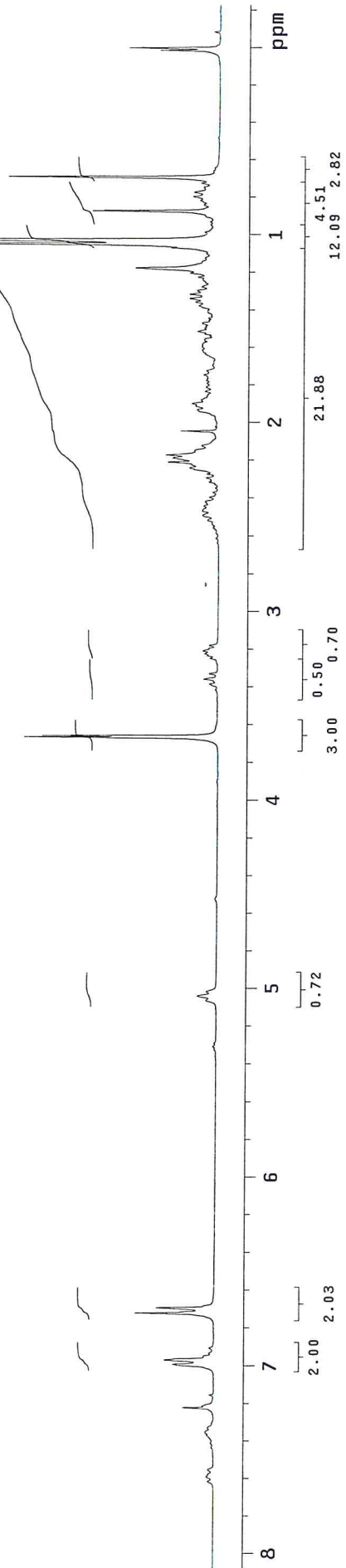
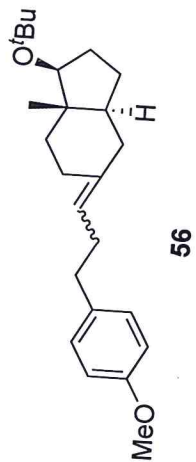
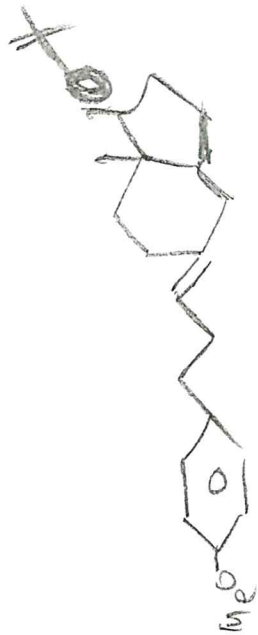
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STANDARD 1H OBSERVE

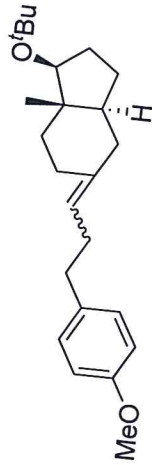
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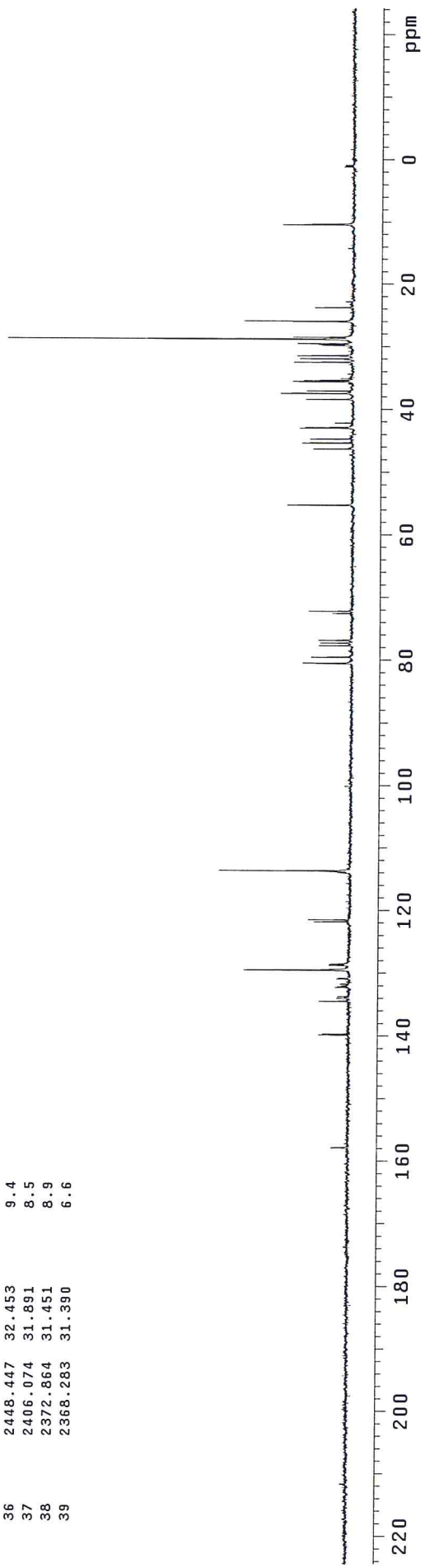
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1	11908.901	157.845	2.8	40	
2	10547.264	139.797	4.9	41	4.9
3	10533.522	139.615	4.2	42	5.5
4	10143.010	134.439	4.8	43	8.8
5	9773.112	129.536	16.9	44	55.3
6	9769.677	129.491	16.4	45	32.9
7	9761.660	129.384	4.4	46	9.6
8	9713.562	128.747	3.2	47	9.7
9	9703.255	128.610	3.2	48	17.4
10	9694.094	128.489	2.9	49	6.1
11	9187.918	121.780	5.7	50	11.4
12	9163.869	121.461	6.7		6.7
13	8583.255	113.765	3.7		
14	8575.239	113.659	21.0		
15	6074.133	80.509	5.6		
16	6067.262	80.418	7.7		
17	5996.260	79.476	6.4		
18	5857.691	77.640	5.2		
19	5825.626	77.215	5.0		
20	5793.561	76.790	5.3		
21	5470.616	72.509	3.0		
22	5443.131	72.145	6.9		
23	4165.094	55.206	10.4		
24	3489.429	46.250	6.3		
25	3418.427	45.309	8.1		
26	3370.328	44.671	6.8		
27	3240.921	42.956	8.4		
28	3230.615	42.820	7.6		
29	3177.936	42.121	2.8		
30	2895.073	38.372	7.5		
31	2824.070	37.431	11.6		
32	2794.295	37.037	7.4		
33	2684.357	35.579	7.7		
34	2679.776	35.519	9.6		
35	2664.868	35.321	7.8		
36	2448.447	32.453	9.4		
37	2406.074	31.891	8.5		
38	2372.864	31.451	8.9		
39	2368.283	31.390	6.6		

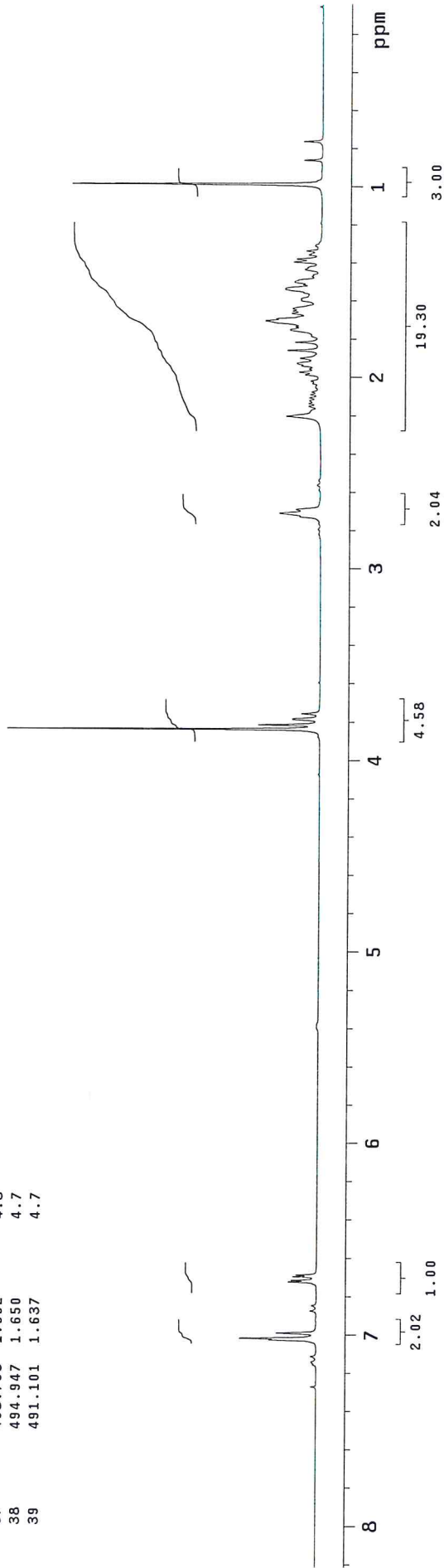
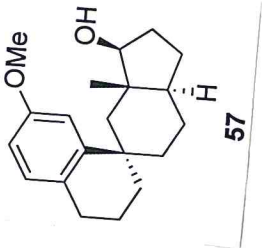


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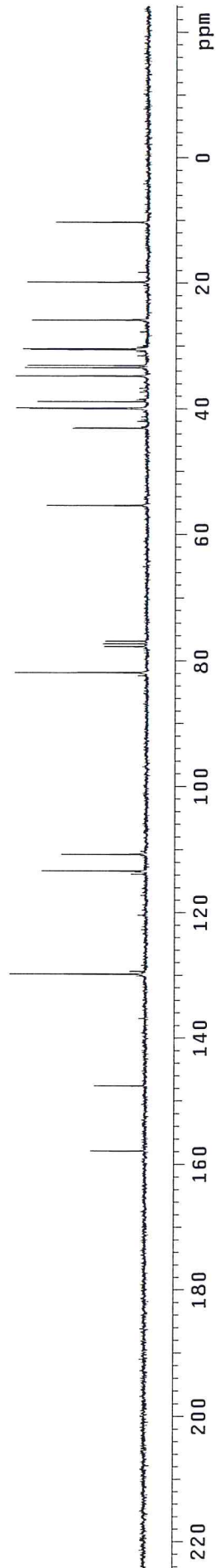
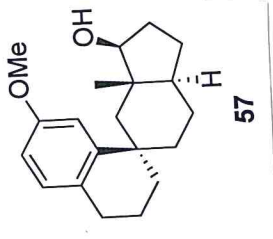
1152

INDEX	FREQUENCY PPM	HEIGHT	INDEX	FREQUENCY PPM	HEIGHT
1	2107.725	7.6	40	478.190	3.4
2	2105.527	12.3	41	475.718	3.4
3	2097.011	6.4	42	466.103	3.0
4	2017.073	4.6	43	460.884	5.9
5	2014.326	4.1	44	453.742	3.1
6	2008.557	3.8	45	449.621	4.4
7	2006.085	3.4	46	440.556	1.7
8	1150.112	3.833	47	438.083	1.5
9	1143.794	3.812	48	429.293	2.8
10	1134.179	3.780	49	426.821	2.4
11	1126.488	3.754	50	417.755	4.6
12	817.448	3.4	51	413.086	4.1
13	812.228	2.707	52	406.493	2.1
14	806.185	2.687	53	400.449	2.5
15	660.043	2.200	54	294.963	39.9
16	644.385	2.148	55	257.329	3.1
17	640.264	2.134	56	227.661	3.0
18	635.595	2.118			
19	631.199	2.104			
20	626.529	2.088			
21	622.409	2.074			
22	608.948	2.030			
23	605.103	2.017			
24	595.213	1.984			
25	591.093	1.970			
26	586.148	1.954			
27	581.203	1.937			
28	577.083	1.923			
29	569.117	1.897			
30	556.755	1.856			
31	543.844	1.813			
32	534.229	1.780			
33	524.340	1.748			
34	519.670	1.732			
35	510.330	1.701			
36	507.034	1.690			
37	498.793	1.662			
38	494.947	1.650			
39	491.101	1.637			



1152

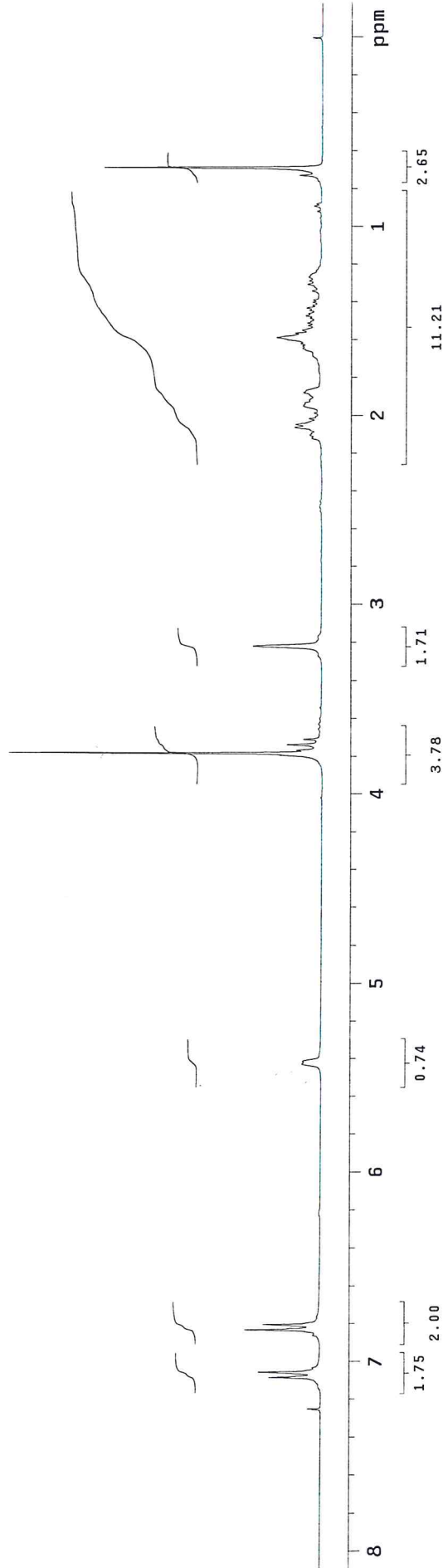
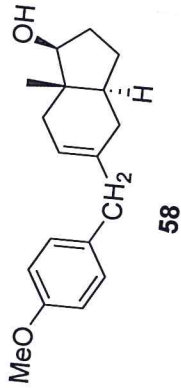
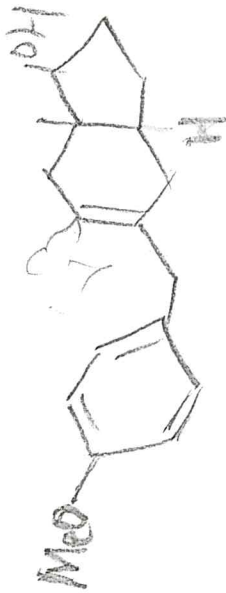
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1	11908.901	157.845	8.8
2	11132.459	147.553	8.2
3	9790.290	129.764	21.8
4	8547.754	113.295	16.7
5	8351.926	110.699	13.6
6	6171.475	81.799	21.1
7	5856.546	77.625	6.9
8	5825.626	77.215	7.1
9	5793.561	76.790	6.7
10	4173.110	55.312	16.0
11	3244.357	43.002	11.9
12	3010.737	39.905	18.8
13	3001.576	39.784	21.0
14	2924.848	38.767	17.5
15	2614.500	34.653	21.1
16	2514.868	33.333	19.6
17	2488.529	32.984	19.2
18	2298.426	30.464	18.6
19	2286.974	30.312	19.9
20	1943.416	25.759	18.4
21	1491.064	19.763	19.2
22	769.591	10.200	14.7



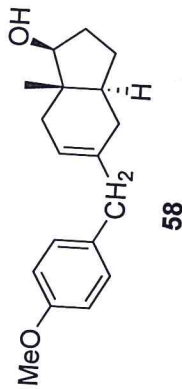
STANDARD 1H OBSERVE

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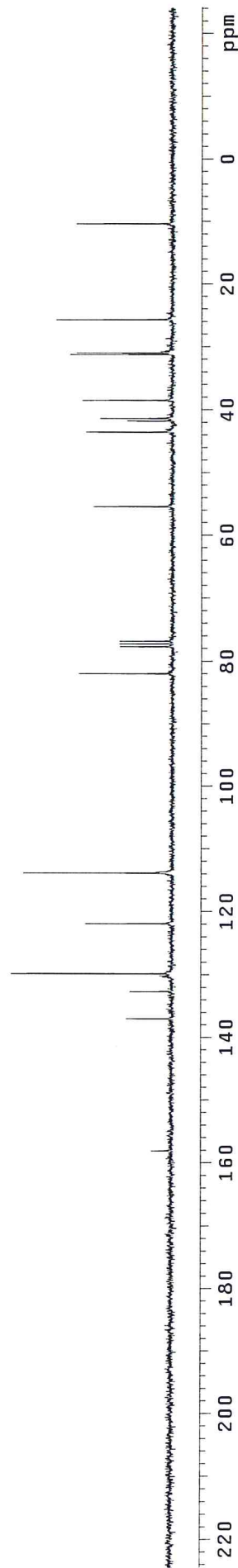
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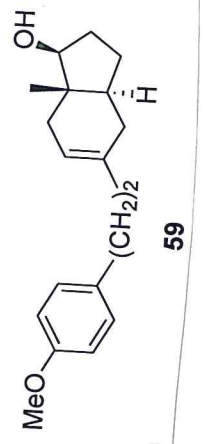
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2	10334.257	136.974	7.3
3	10004.441	132.602	6.7
4	9791.435	129.779	25.7
5	9193.643	121.856	13.9
6	8587.835	113.826	23.8
7	6180.636	81.920	15.0
8	5857.691	77.640	8.4
9	5825.626	77.215	8.5
10	5793.560	76.790	8.5
11	4177.690	55.373	12.7
12	3279.858	43.472	13.8
13	3145.870	41.696	7.3
14	3117.240	41.317	11.6
15	2899.653	38.433	14.5
16	2351.105	31.162	16.4
17	2332.781	30.919	15.4
18	1933.108	25.622	18.6
19	775.317	10.276	15.4



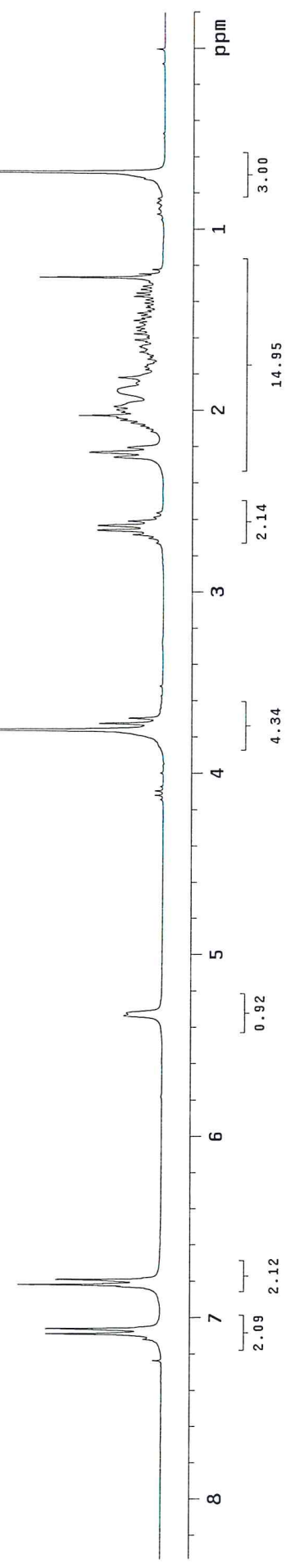
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INDEX	FREQUENCY PPM	HEIGHT	INDEX	FREQUENCY PPM	HEIGHT
1	2135.537	7.117	40	495.014	1.650
2	2127.021	7.089	41	493.091	1.643
3	2118.505	7.061	42	491.443	1.638
4	2049.005	6.829	43	486.223	1.620
5	2045.984	6.819	44	482.652	1.609
6	2037.468	6.790	45	477.982	1.593
7	1600.691	5.335	46	472.488	1.575
8	1596.571	5.321	47	467.269	1.557
9	1127.654	3.758	48	465.071	1.550
10	1117.215	3.723	49	462.050	1.540
11	1108.424	3.694	50	454.083	1.513
12	804.329	2.681	51	450.237	1.501
13	801.856	2.672	52	446.666	1.489
14	796.912	2.656	53	441.722	1.472
15	789.495	2.631	54	438.150	1.460
16	782.078	2.607	55	433.755	1.446
17	676.867	2.256	56	428.811	1.429
18	668.900	2.229	57	425.789	1.419
19	660.934	2.203	58	421.119	1.404
20	629.069	2.097	59	415.899	1.386
21	625.223	2.084	60	410.405	1.368
22	620.278	2.067	61	404.911	1.349
23	615.883	2.053	62	399.143	1.330
24	612.037	2.040	63	393.649	1.312
25	610.389	2.034	64	378.540	1.262
26	607.916	2.026	65	373.046	1.243
27	602.972	2.010	66	215.916	0.720
28	598.302	1.994	67	203.829	0.679
29	593.083	1.977			
30	565.887	1.886			
31	555.174	1.850			
32	545.010	1.816			
33	531.824	1.772			
34	527.154	1.757			
35	523.583	1.745			
36	514.518	1.715			
37	506.277	1.687			
38	502.705	1.675			
39	500.783	1.669			



1146

INDEX	FREQUENCY	PPM	HEIGHT
1	11905.465	157.799	4.6
2	10307.918	136.625	11.0
3	10155.607	134.606	7.2
4	9755.934	129.308	36.7
5	9098.593	120.596	16.4
6	8599.288	113.978	4.8
7	8586.690	113.811	36.5
8	6176.055	81.860	17.8
9	5857.691	77.640	6.3
10	5825.626	77.215	6.6
11	5793.560	76.790	5.8
12	4174.255	55.327	15.8
13	3140.144	41.621	10.8
14	3110.369	41.226	17.7
15	3005.011	39.829	16.2
16	2891.637	38.327	16.7
17	2552.659	33.834	19.1
18	2390.042	31.678	20.6
19	2323.620	30.798	19.5
20	2217.117	29.386	4.7
21	1937.690	25.683	22.2
22	765.010	10.140	17.4

