

## Electronic Supplementary Information

### Structure–activity studies of non-steroid analogues structurally-related to neuroprotective estrogens<sup>†</sup>

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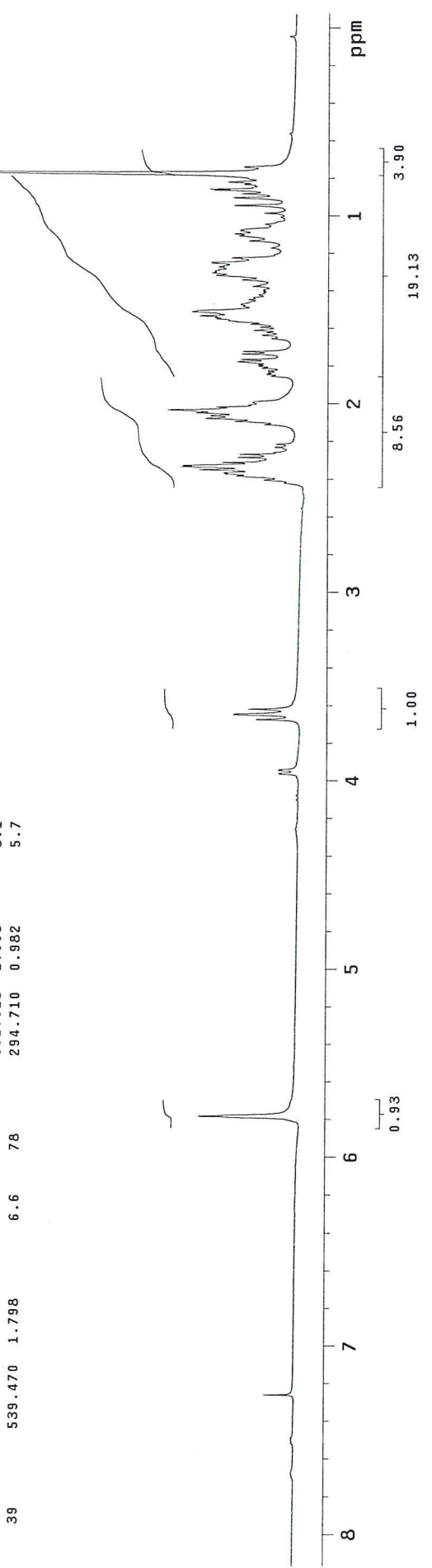
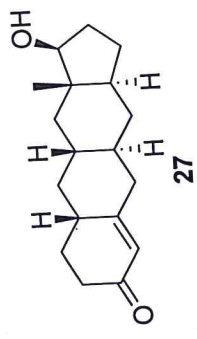
Copies of <sup>1</sup>H and <sup>13</sup>C NMR spectra for compounds 27 to 59.

2143

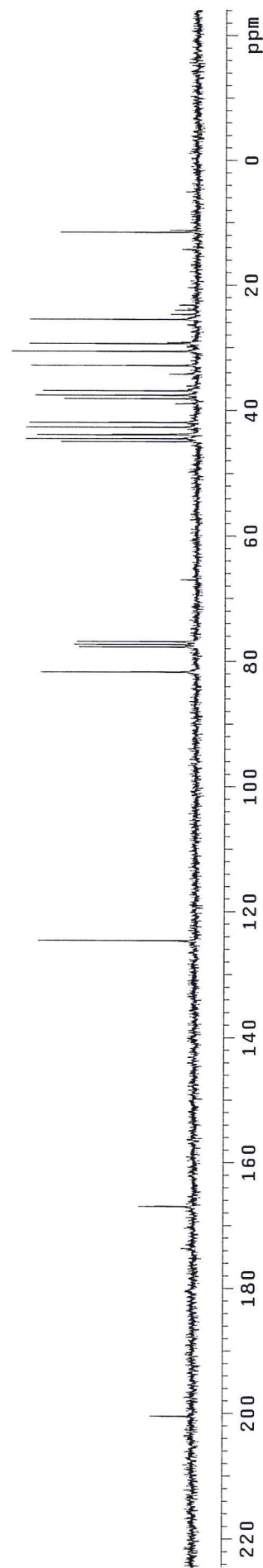
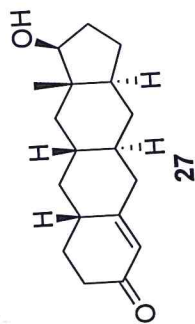
2143-2

300mg minor

INDEX	FREQUENCY	PPM	HEIGHT	INDEX	FREQUENCY	PPM	HEIGHT	INDEX	FREQUENCY	PPM	HEIGHT	INDEX	FREQUENCY	PPM	HEIGHT
1	2178.345	7.260	4.9	40	536.998	1.790	6.7	79	282.623	0.942	10.5	80	269.987	0.900	10.6
2	1734.975	5.782	15.6	41	532.328	1.774	9.9	81	263.669	0.879	9.3	82	258.175	0.860	13.7
3	1188.867	3.962	3.0	42	528.757	1.762	9.4	83	256.252	0.854	14.3	84	254.054	0.847	7.8
4	1187.493	3.958	3.1	43	519.966	1.733	9.3	85	251.307	0.838	7.3	86	248.835	0.829	8.9
5	1183.098	3.943	3.1	44	516.120	1.720	9.1	87	244.989	0.817	11.5	88	230.430	0.768	100.0
6	1181.724	3.938	3.1	45	495.243	1.651	4.5	89	221.090	0.737	8.9				
7	1101.786	3.672	6.7	46	489.749	1.632	6.0								
8	1094.094	3.646	10.3	47	485.628	1.619	5.3								
9	1092.995	3.643	10.3	48	482.057	1.607	7.3								
10	1085.029	3.616	7.9	49	477.112	1.590	6.3								
11	725.169	2.417	2.4	50	472.443	1.575	7.9								
12	720.774	2.402	5.6	51	463.927	1.546	13.3								
13	714.455	2.381	10.0	52	462.004	1.540	13.5								
14	710.884	2.369	11.9	53	459.257	1.531	16.0								
15	709.236	2.364	12.0	54	452.684	1.509	17.2								
16	704.566	2.348	15.9	55	444.148	1.480	9.0								
17	699.621	2.332	18.9	56	441.126	1.470	9.4								
18	697.973	2.326	18.5	57	433.160	1.444	8.1								
19	693.029	2.310	12.3	58	429.884	1.433	7.4								
20	684.788	2.282	9.8	59	425.468	1.418	6.6								
21	679.843	2.266	9.5	60	421.897	1.406	5.8								
22	676.546	2.255	4.2	61	419.700	1.399	5.9								
23	668.580	2.228	3.9	62	417.777	1.392	5.8								
24	663.635	2.212	3.6	63	412.008	1.373	7.5								
25	632.319	2.107	5.6	64	401.569	1.338	9.1								
26	627.375	2.091	10.4	65	394.702	1.315	13.4								
27	622.705	2.075	15.0	66	390.581	1.302	13.9								
28	618.584	2.062	14.2	67	388.109	1.293	13.5								
29	613.914	2.046	16.6	68	380.967	1.270	12.9								
30	609.244	2.030	21.0	69	374.099	1.247	14.1								
31	604.574	2.015	13.2	70	366.407	1.221	10.9								
32	601.278	2.004	8.2	71	350.475	1.168	4.6								
33	597.707	1.992	7.5	72	339.212	1.131	8.1								
34	555.403	1.851	4.5	73	331.245	1.104	9.7								
35	552.381	1.841	5.3	74	327.949	1.093	10.4								
36	549.909	1.833	5.1	75	322.455	1.075	9.5								
37	546.887	1.823	5.1	76	312.566	1.042	5.6								
38	542.492	1.808	6.0	77	301.028	1.003	3.1								
39	539.470	1.798	6.6	78	294.710	0.982	5.7								

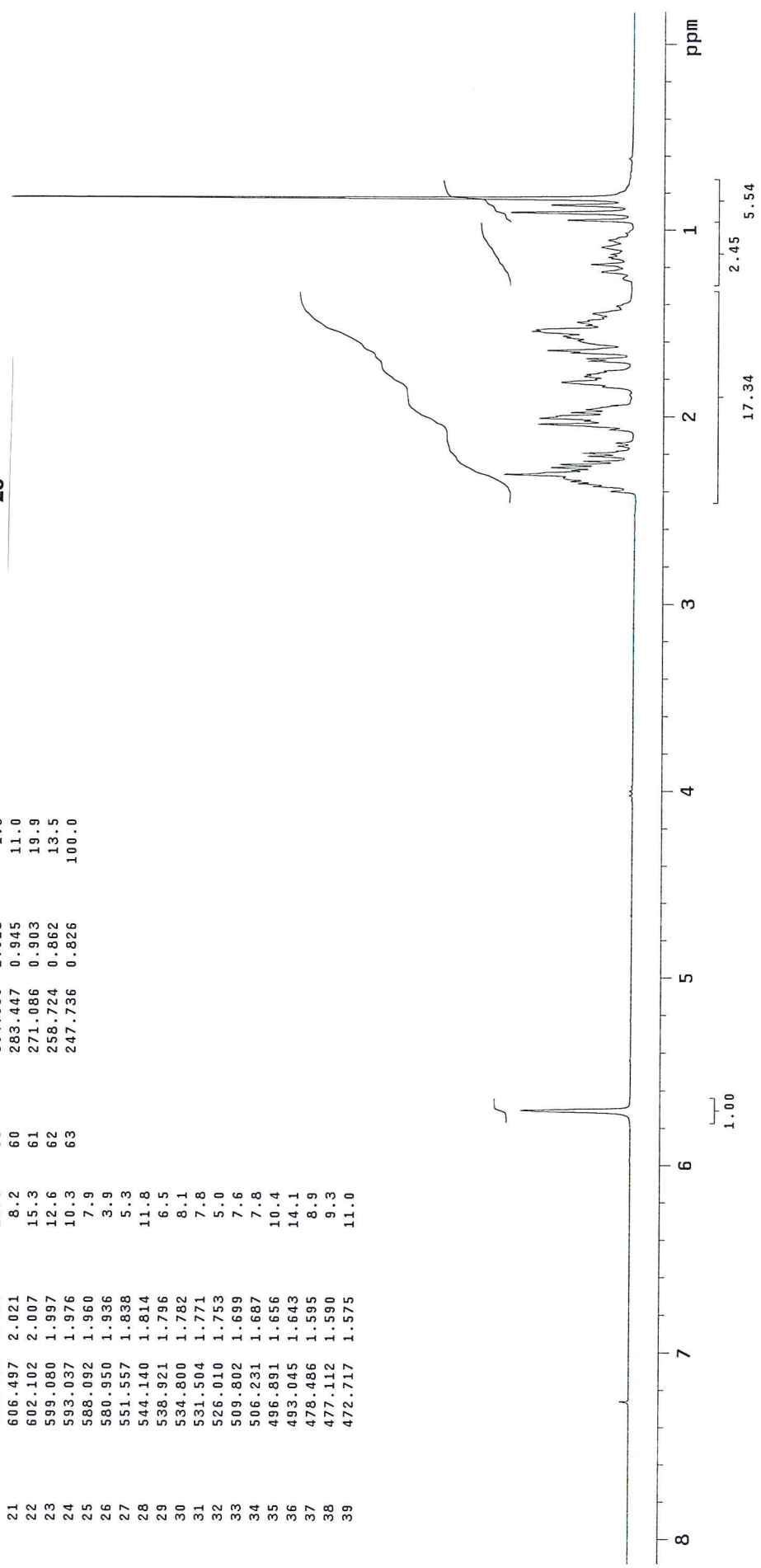
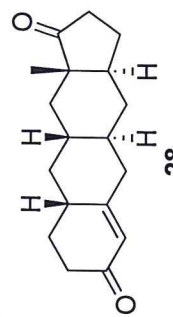


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3	9395.198	124.527	25.0
4	6157.732	81.617	24.7
5	5857.691	77.640	18.7
6	5825.626	77.215	19.4
7	5793.560	76.790	19.0
8	3386.361	44.884	21.6
9	3350.860	44.413	27.2
10	3305.052	43.806	25.4
11	3293.600	43.654	13.5
12	3213.436	42.592	27.1
13	3157.322	41.848	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



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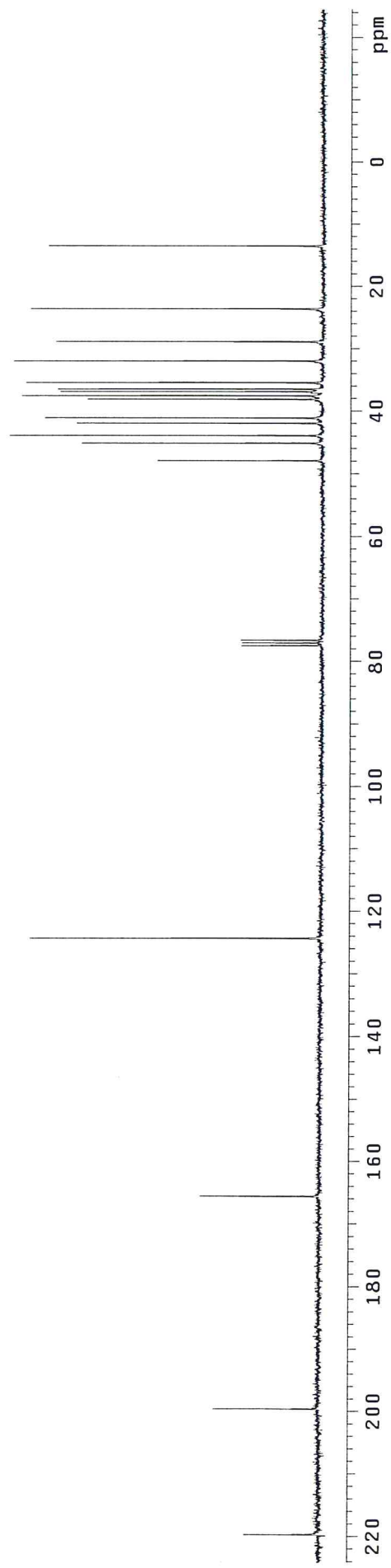
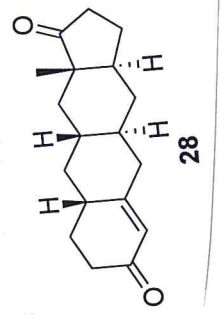
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1	2178.345	7.260	1.6	40	469.970	1.566	11.5
2	1711.900	5.705	17.7	41	462.553	1.542	16.6
3	719.400	2.398	3.8	42	459.806	1.532	16.0
4	710.884	2.369	6.7	43	452.664	1.509	7.9
5	706.764	2.356	9.0	44	447.719	1.492	9.3
6	703.467	2.345	10.3	45	444.423	1.481	7.7
7	697.149	2.323	11.4	46	439.753	1.466	5.4
8	692.204	2.307	20.9	47	434.259	1.447	6.9
9	685.337	2.284	10.1	48	424.644	1.415	2.6
10	680.942	2.269	13.4	49	421.623	1.405	3.0
11	675.997	2.253	11.9	50	376.846	1.256	2.1
12	670.778	2.236	8.2	51	366.407	1.221	5.4
13	662.537	2.208	7.5	52	354.870	1.183	7.1
14	658.965	2.196	6.7	53	346.904	1.156	2.7
15	657.592	2.192	8.4	54	345.530	1.152	4.0
16	654.570	2.182	3.0	55	343.332	1.144	4.3
17	646.329	2.154	2.8	56	338.388	1.128	4.0
18	641.385	2.138	3.1	57	327.400	1.091	5.5
19	619.958	2.066	4.1	58	315.313	1.051	4.3
20	611.442	2.038	15.5	59	304.050	1.013	1.6
21	606.497	2.021	8.2	60	283.447	0.945	11.0
22	602.102	2.007	15.3	61	271.086	0.903	19.9
23	599.080	1.997	12.6	62	258.724	0.862	13.5
24	593.037	1.976	10.3	63	247.736	0.826	100.0
25	588.092	1.960	7.9				
26	580.950	1.936	3.9				
27	551.557	1.838	5.3				
28	544.140	1.814	11.8				
29	538.921	1.796	6.5				
30	534.800	1.782	8.1				
31	531.504	1.771	7.8				
32	526.010	1.753	5.0				
33	509.802	1.699	7.6				
34	506.231	1.687	7.8				
35	496.891	1.656	10.4				
36	493.045	1.643	14.1				
37	478.486	1.595	8.9				
38	477.112	1.590	9.3				
39	472.717	1.575	11.0				





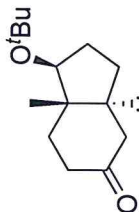
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INDEX	FREQUENCY	PPM	HEIGHT
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4	9378.992	124.312	46.6
5	5840.340	77.410	12.8
6	5808.275	76.985	12.7
7	5776.209	76.560	12.9
8	3609.501	47.842	26.3
9	3399.930	45.064	38.4
10	3308.315	43.850	50.0
11	3159.439	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

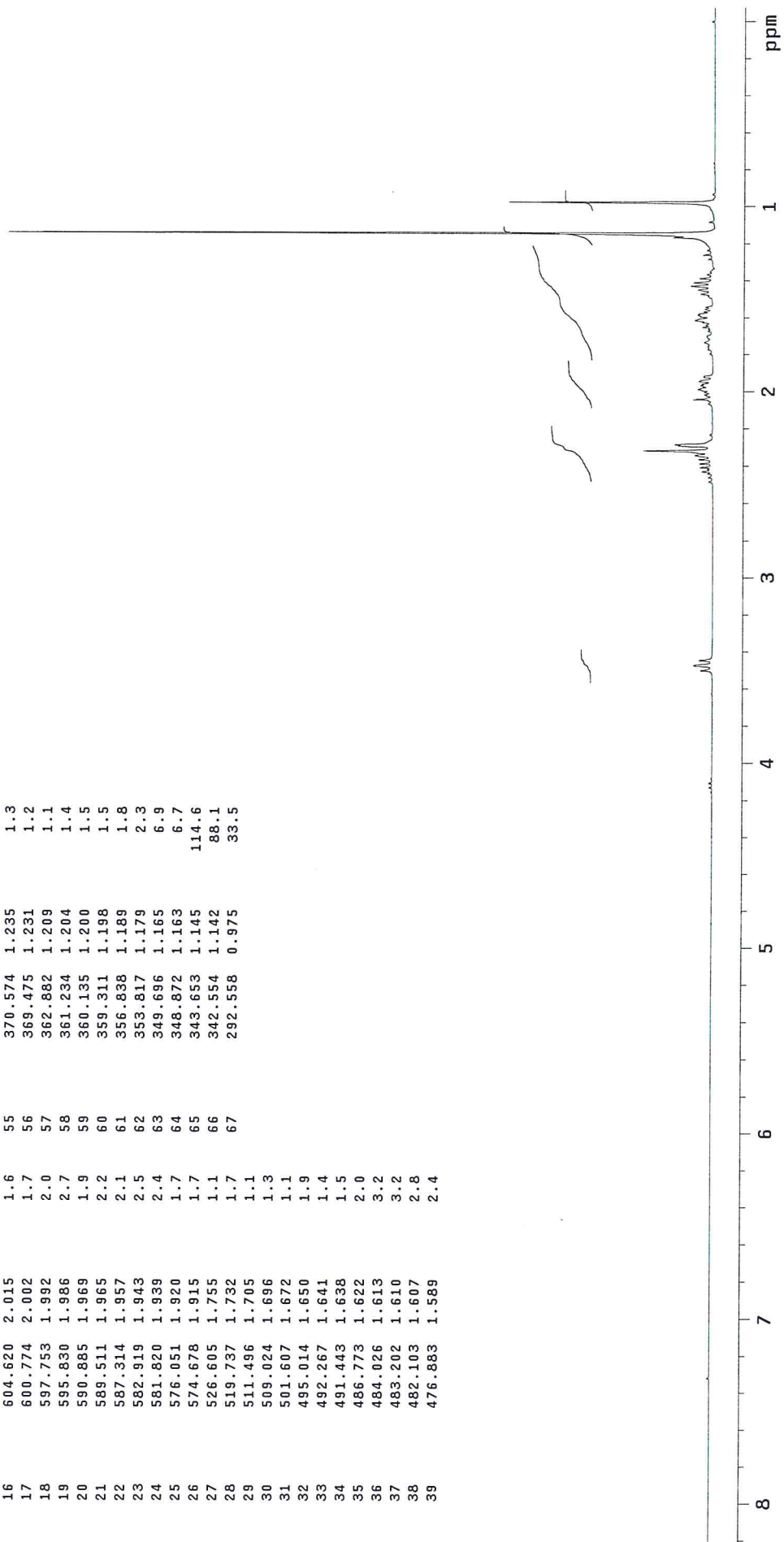


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1	1049.913	3.499	2.1	40	475.235	1.584	2.7
2	1041.672	3.472	3.3	41	473.312	1.577	2.7
3	1033.705	3.445	2.3	42	469.741	1.566	1.8
4	728.786	2.429	2.0	43	465.346	1.551	1.6
5	725.489	2.418	1.1	44	462.050	1.540	1.5
6	721.918	2.406	2.3	45	445.018	1.483	1.1
7	715.875	2.386	2.3	46	440.623	1.469	2.3
8	709.007	2.363	2.5	47	433.755	1.446	2.8
9	702.139	2.340	3.1	48	427.712	1.425	4.0
10	694.997	2.316	11.5	49	422.218	1.407	3.5
11	686.756	2.289	6.0	50	415.350	1.384	2.5
12	685.108	2.283	6.4	51	409.307	1.364	1.3
13	612.312	2.041	3.4	52	384.858	1.283	1.1
14	611.488	2.038	3.0	53	377.716	1.259	1.9
15	606.818	2.022	1.3	54	376.617	1.255	1.6
16	604.620	2.015	1.6	55	370.574	1.235	1.3
17	600.774	2.002	1.7	56	369.475	1.231	1.2
18	597.753	1.992	2.0	57	362.882	1.209	1.1
19	595.830	1.986	2.7	58	361.234	1.204	1.4
20	590.895	1.969	1.9	59	360.135	1.200	1.5
21	589.511	1.965	2.2	60	359.311	1.198	1.5
22	587.314	1.957	2.1	61	356.838	1.189	1.8
23	582.919	1.943	2.5	62	353.817	1.179	2.3
24	581.820	1.939	2.4	63	349.696	1.165	6.9
25	576.051	1.920	1.7	64	348.872	1.163	6.7
26	574.678	1.915	1.7	65	343.653	1.145	114.6
27	526.605	1.755	1.1	66	342.554	1.142	88.1
28	519.737	1.732	1.7	67	292.558	0.975	33.5
29	511.496	1.705	1.1				
30	509.024	1.696	1.3				
31	501.607	1.672	1.1				
32	495.014	1.650	1.9				
33	492.267	1.641	1.4				
34	491.443	1.638	1.5				
35	486.773	1.622	2.0				
36	484.026	1.613	3.2				
37	483.202	1.610	3.2				
38	482.103	1.607	2.8				
39	476.883	1.589	2.4				

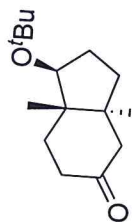
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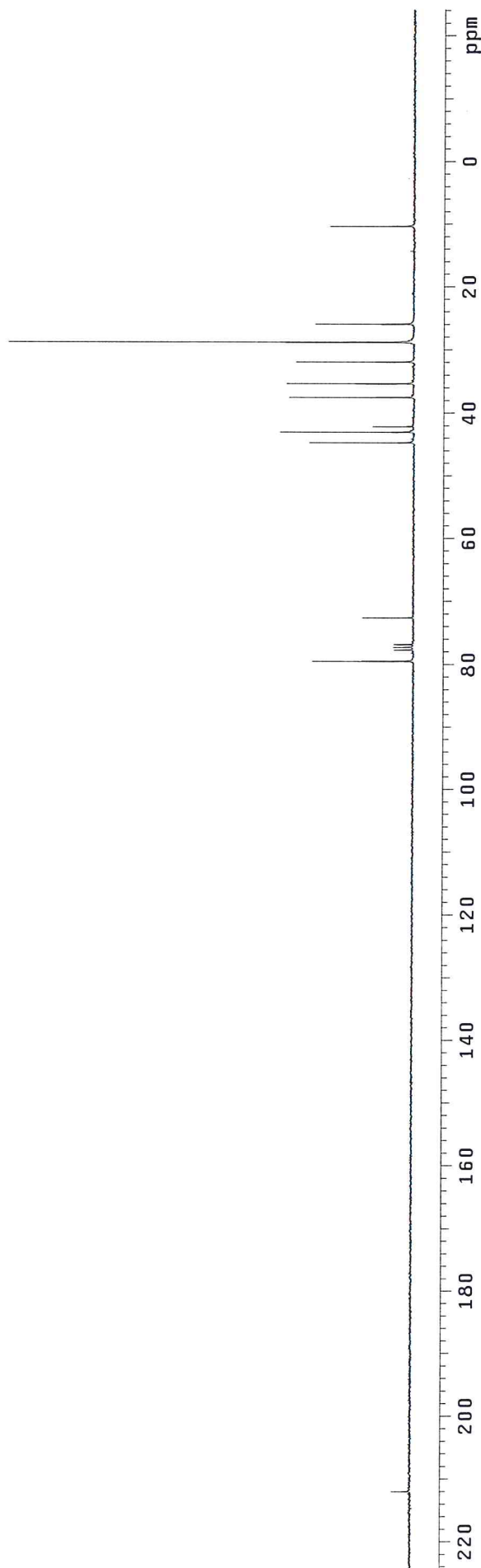
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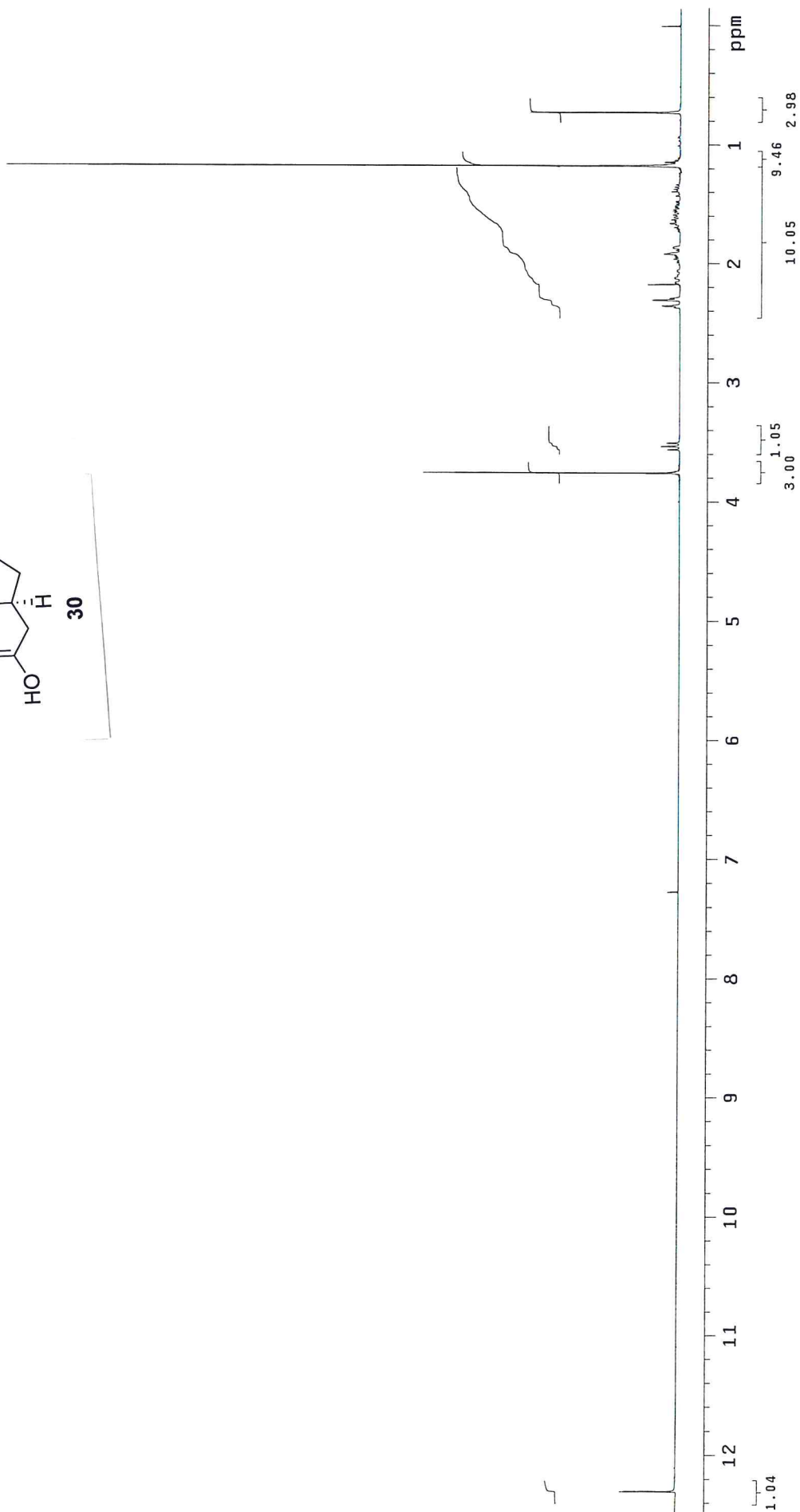
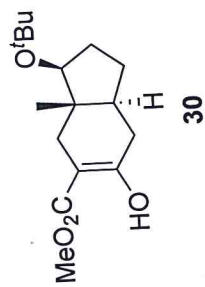
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3	5858.836	77.655	3.1
4	5826.771	77.230	3.2
5	5794.705	76.805	3.2
6	5475.196	72.570	8.2
7	3370.328	44.671	16.8
8	3243.211	42.987	21.5
9	3176.790	42.106	6.7
10	2826.360	37.452	20.0
11	2662.598	35.291	20.5
12	2404.929	31.876	18.9
13	2170.164	28.764	65.1
14	1953.722	25.895	15.9
15	775.317	10.276	13.6



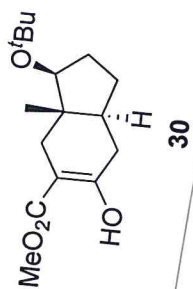
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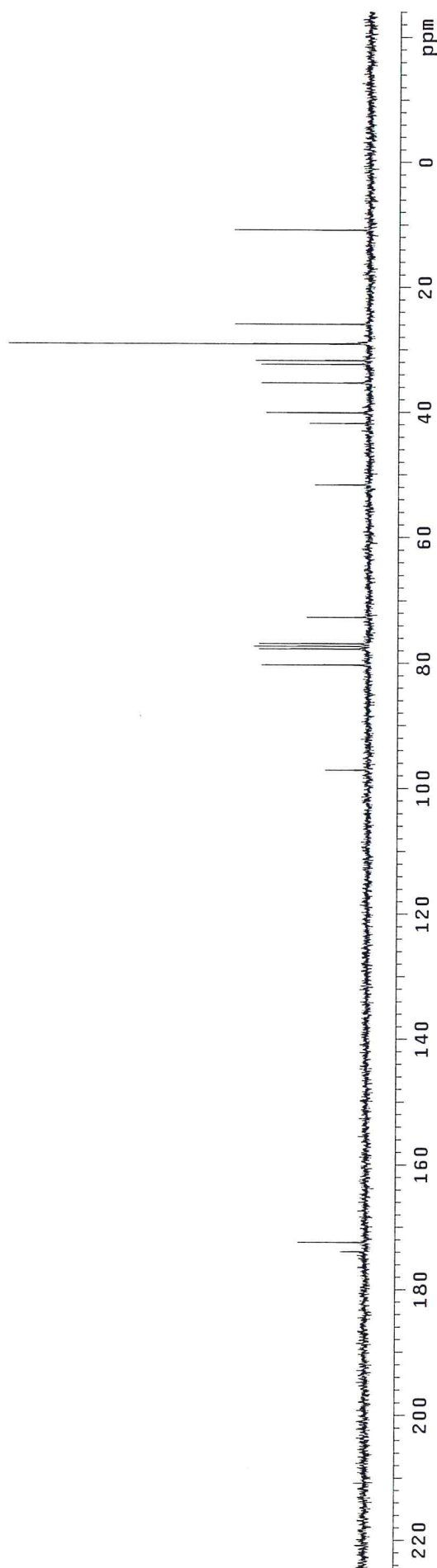
INDEX	FREQUENCY	PPM	HEIGHT
1	3691.177	12.302	9.3
2	1126.280	3.754	42.4
3	651.045	2.170	5.5
4	350.795	1.169	111.5
5	216.191	0.721	25.0



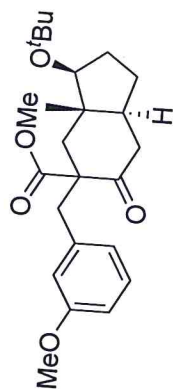
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2	13007.142	172.401	10.9
3	7321.250	97.038	6.9
4	6051.229	80.205	17.1
5	5857.691	77.640	17.5
6	5825.625	77.215	18.4
7	5793.560	76.790	17.5
8	5476.341	72.585	10.0
9	3889.101	51.547	8.7
10	3147.015	41.712	9.6
11	3017.608	39.996	16.5
12	2656.871	35.215	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



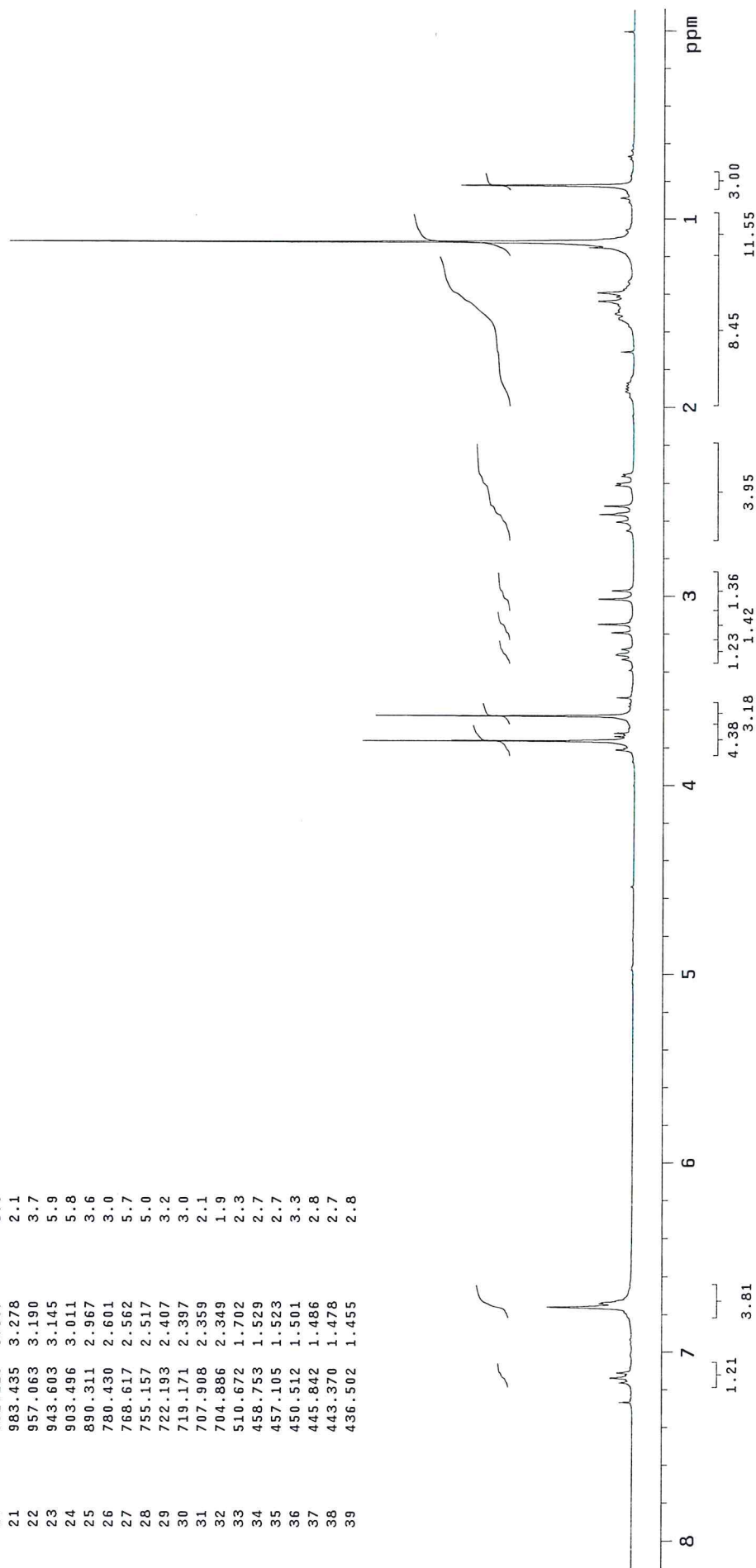
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INDEX	FREQUENCY	PPM	HEIGHT	INDEX	FREQUENCY	PPM	HEIGHT
1	2180.039	7.266	2.2	40	430.459	1.435	5.9
2	2148.997	7.162	2.2	41	423.042	1.410	3.0
3	2141.855	7.138	3.7	42	416.998	1.390	6.1
4	2141.031	7.136	3.6	43	411.230	1.371	2.0
5	2133.064	7.109	2.6	44	344.202	1.147	7.5
6	2028.128	6.759	13.8	45	335.137	1.117	100.0
7	2022.634	6.741	5.5	46	265.363	0.884	2.4
8	2020.986	6.736	5.2	47	245.309	0.818	27.9
9	2018.239	6.726	2.9	48	-0.000	-0.000	1.9
10	1142.762	3.809	3.0				
11	1142.213	3.807	2.9				
12	1140.015	3.799	1.8				
13	1128.203	3.760	43.5				
14	1121.061	3.736	3.2				
15	1118.039	3.726	1.8				
16	1116.116	3.720	3.3				
17	1088.646	3.628	41.4				
18	1060.077	3.533	2.9				
19	999.367	3.331	2.1				
20	992.225	3.307	3.0				
21	983.435	3.278	2.1				
22	957.063	3.190	3.7				
23	943.603	3.145	5.9				
24	903.496	3.011	5.8				
25	890.311	2.967	3.6				
26	780.430	2.601	3.0				
27	768.617	2.562	5.7				
28	755.157	2.517	5.0				
29	722.193	2.407	3.2				
30	719.171	2.397	3.0				
31	707.908	2.359	2.1				
32	704.886	2.349	1.9				
33	510.672	1.702	2.3				
34	458.753	1.529	2.7				
35	457.105	1.523	2.7				
36	450.512	1.501	3.3				
37	445.842	1.486	2.8				
38	443.370	1.478	2.7				
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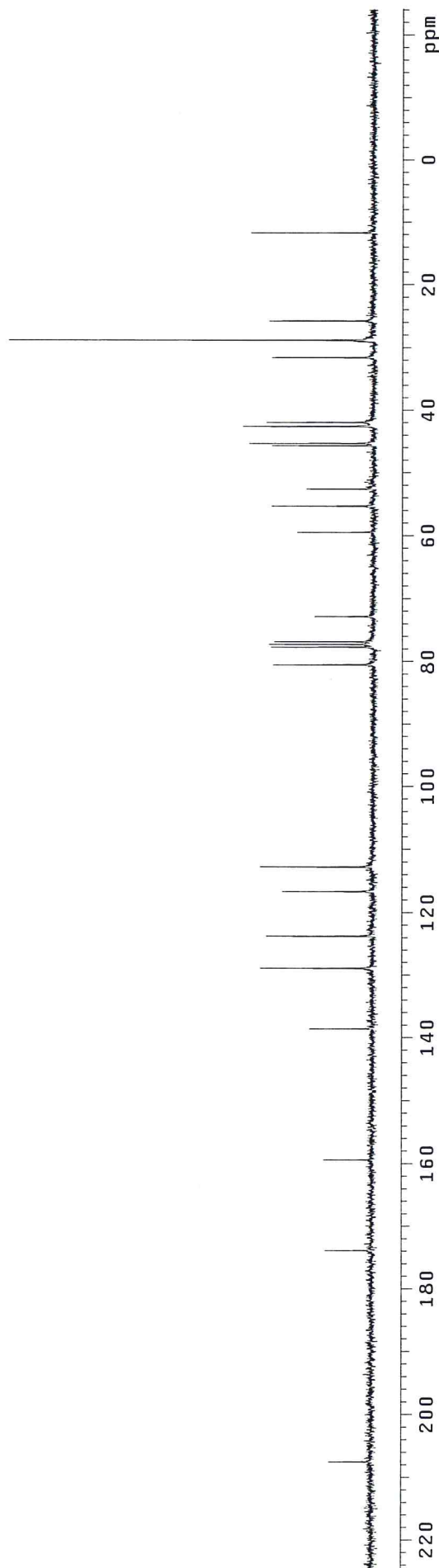
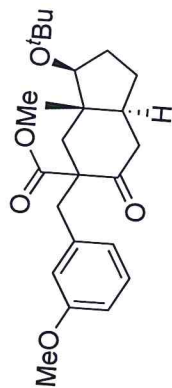


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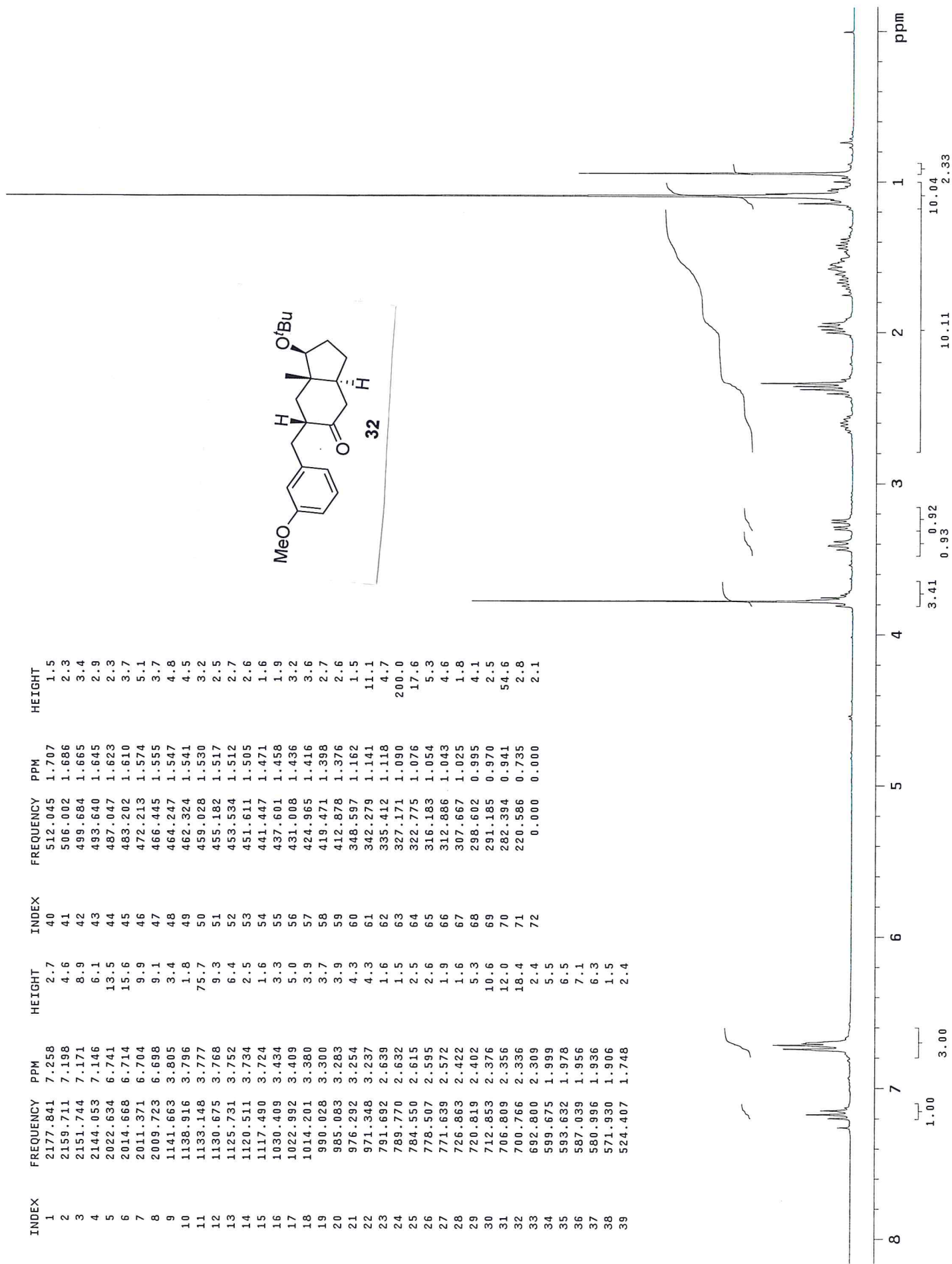
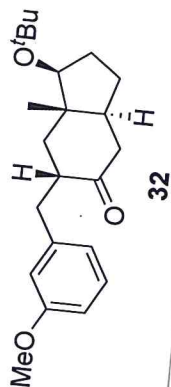




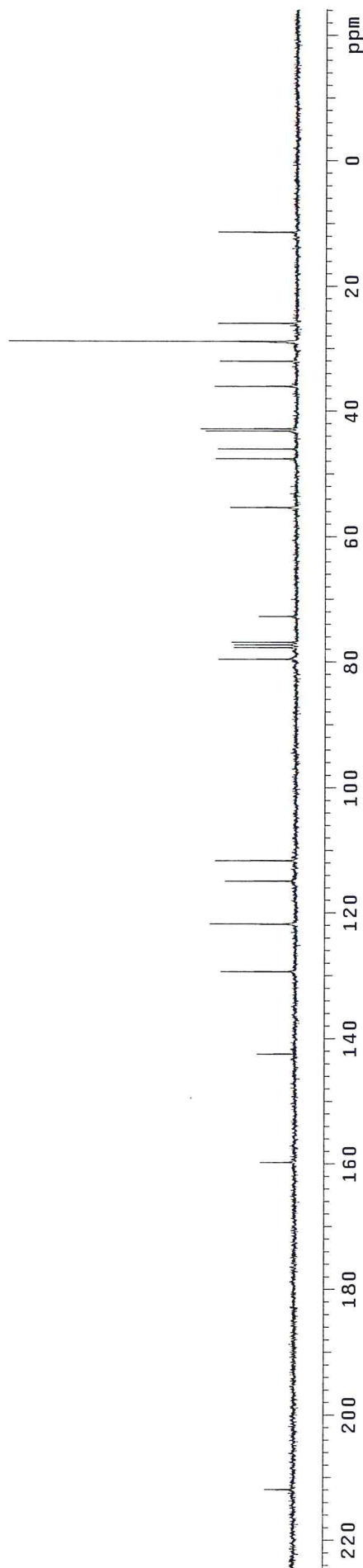
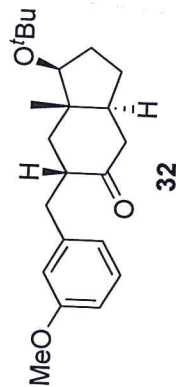
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5	9721.578	128.853	18.0
6	9333.357	123.707	17.0
7	8797.406	116.604	14.5
8	8504.236	112.718	18.0
9	6069.552	80.448	16.0
10	5856.546	77.825	16.3
11	5824.480	77.200	16.7
12	5792.415	76.775	15.8
13	5490.083	72.767	9.4
14	4480.022	59.380	12.2
15	4166.238	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



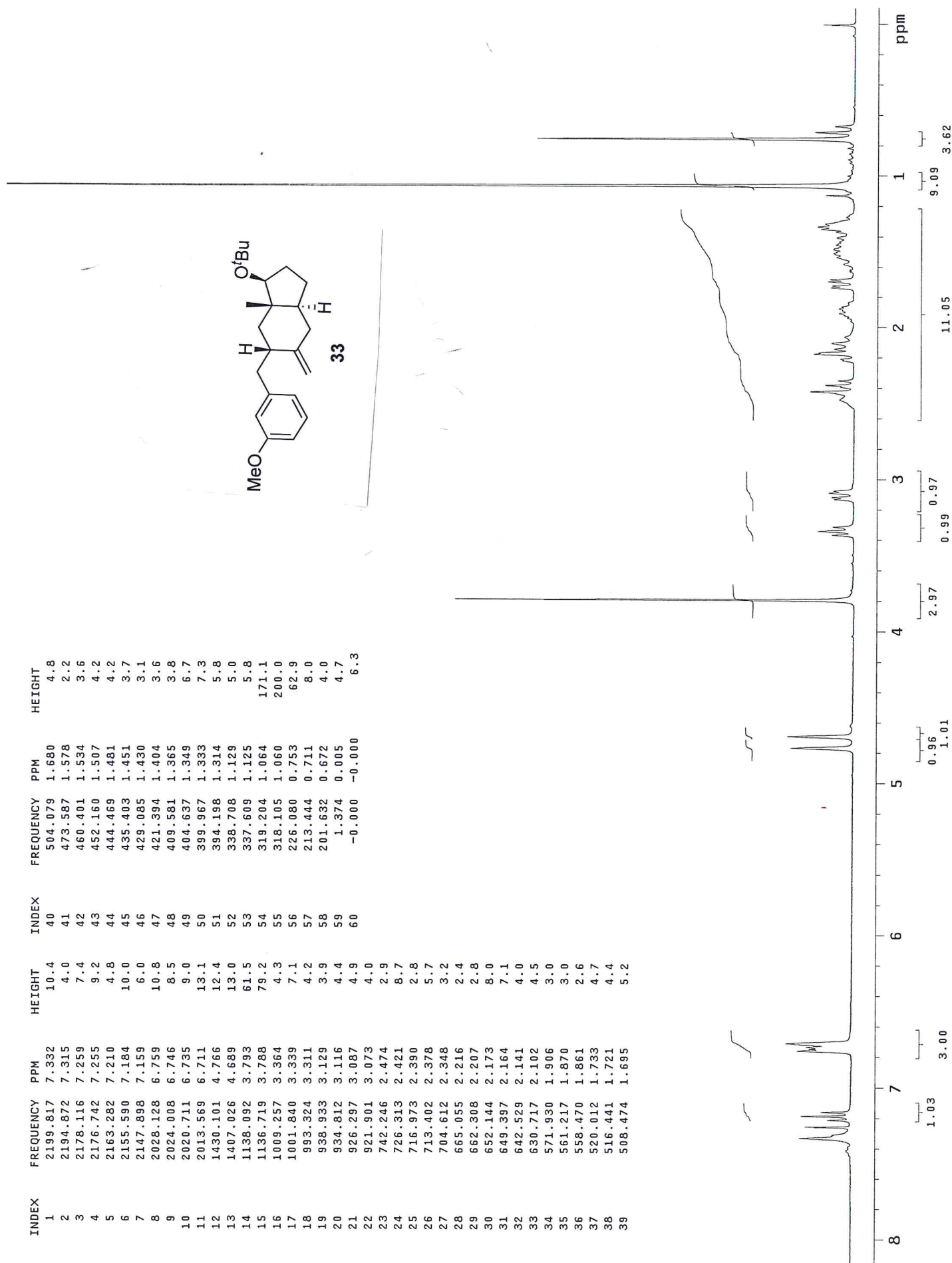
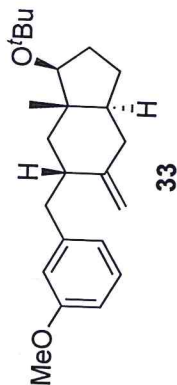
INDEX	FREQUENCY	PPM	HEIGHT	INDEX	FREQUENCY	PPM	HEIGHT
1	2177.841	7.258	2.7	40	512.045	1.707	1.5
2	2159.711	7.198	4.6	41	506.002	1.686	2.3
3	2151.744	7.171	8.9	42	499.684	1.665	3.4
4	2144.053	7.146	6.1	43	493.640	1.645	2.9
5	2022.634	6.741	13.5	44	487.047	1.623	2.3
6	2014.668	6.714	15.6	45	483.202	1.610	3.7
7	2011.371	6.704	9.9	46	472.213	1.574	5.1
8	2009.723	6.698	9.1	47	466.445	1.555	3.7
9	1141.663	3.805	3.4	48	464.247	1.547	4.8
10	1138.916	3.796	1.8	49	462.324	1.541	4.5
11	1133.148	3.777	75.7	50	459.028	1.530	3.2
12	1130.675	3.768	9.3	51	455.182	1.517	2.5
13	1125.731	3.752	6.4	52	453.534	1.512	2.7
14	1120.511	3.734	2.5	53	451.611	1.505	2.6
15	1117.490	3.724	1.6	54	441.447	1.471	1.6
16	1030.409	3.434	3.3	55	437.601	1.458	1.9
17	1022.992	3.409	5.0	56	431.008	1.436	3.2
18	1014.201	3.380	3.9	57	424.965	1.416	3.6
19	990.028	3.300	3.7	58	419.471	1.398	2.7
20	985.083	3.283	3.9	59	412.878	1.376	2.6
21	976.292	3.254	4.3	60	348.597	1.162	1.5
22	971.348	3.237	4.3	61	342.279	1.141	11.1
23	791.692	2.639	1.6	62	335.412	1.118	4.7
24	789.770	2.632	1.5	63	327.171	1.090	200.0
25	784.550	2.615	2.5	64	322.775	1.076	17.6
26	778.507	2.595	2.6	65	316.183	1.054	5.3
27	771.639	2.572	1.9	66	312.886	1.043	4.6
28	726.863	2.422	1.6	67	307.667	1.025	1.8
29	720.819	2.402	5.3	68	298.602	0.995	4.1
30	712.853	2.376	10.6	69	291.185	0.970	2.5
31	706.809	2.356	12.0	70	282.394	0.941	54.6
32	700.766	2.336	18.4	71	220.586	0.735	2.8
33	692.800	2.309	2.4	72	0.000	0.000	2.1
34	599.675	1.999	5.5				
35	593.632	1.978	6.5				
36	587.039	1.956	7.1				
37	580.996	1.936	6.3				
38	571.930	1.906	1.5				
39	524.407	1.748	2.4				



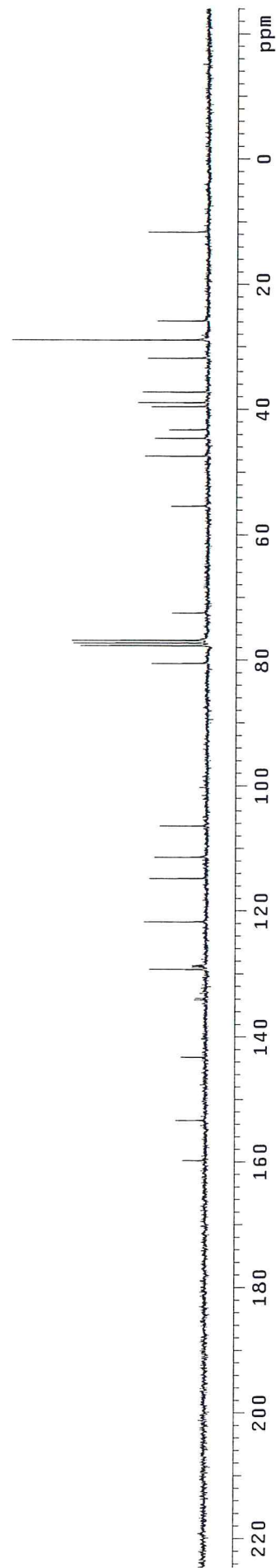
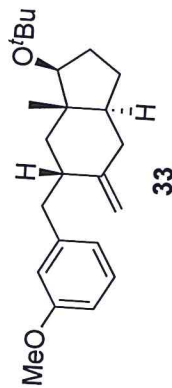
13C NMR	FREQUENCY	PPM	HEIGHT
1	15985.794	211.881	4.7
2	15985.794	211.881	5.6
3	10741.947	142.377	6.1
4	9754.789	129.293	12.0
5	9183.337	121.719	13.8
6	8665.709	114.858	11.4
7	8418.346	111.580	13.0
8	5998.550	79.507	12.5
9	5857.691	77.640	10.0
10	5825.626	77.215	10.0
11	5793.560	76.790	10.4
12	5480.922	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



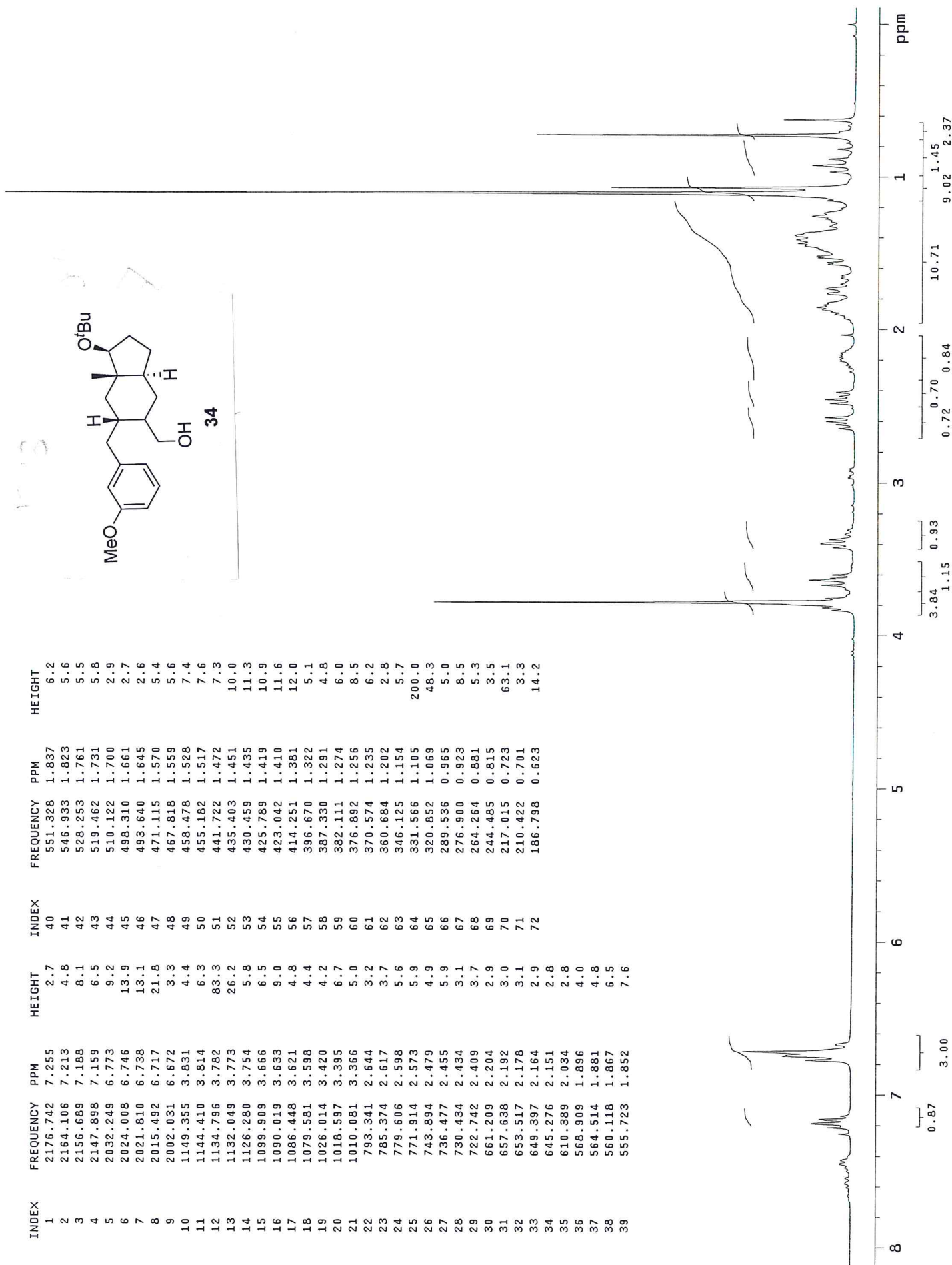
INDEX	FREQUENCY	PPM	HEIGHT	INDEX	FREQUENCY	PPM	HEIGHT
1	2199.817	7.332	10.4	40	504.079	1.680	4.8
2	2194.872	7.315	4.0	41	473.587	1.578	2.2
3	2178.116	7.259	7.4	42	460.401	1.534	3.6
4	2176.742	7.255	9.2	43	452.160	1.507	4.2
5	2163.282	7.210	4.8	44	444.469	1.481	4.2
6	2155.590	7.184	10.0	45	435.403	1.451	3.7
7	2147.898	7.159	6.0	46	429.085	1.430	3.1
8	2028.128	6.759	10.8	47	421.394	1.404	3.6
9	2024.008	6.746	8.5	48	409.581	1.365	3.8
10	2020.711	6.735	9.0	49	404.637	1.349	6.7
11	2013.569	6.711	13.1	50	399.967	1.333	7.3
12	1430.101	4.766	12.4	51	394.198	1.314	5.8
13	1407.026	4.689	13.0	52	338.708	1.129	5.0
14	1138.092	3.793	61.5	53	337.609	1.125	5.8
15	1136.719	3.788	79.2	54	319.204	1.064	171.1
16	1009.257	3.364	4.3	55	318.105	1.060	200.0
17	1001.840	3.339	7.1	56	226.080	0.753	62.9
18	993.324	3.311	4.2	57	213.444	0.711	8.0
19	938.933	3.129	3.9	58	201.632	0.672	4.0
20	934.812	3.116	4.4	59	1.374	0.005	4.7
21	926.297	3.087	4.9	60	-0.000	-0.000	6.3
22	921.901	3.073	4.0				
23	742.246	2.474	2.9				
24	726.313	2.421	8.7				
25	716.973	2.390	2.8				
26	713.402	2.378	5.7				
27	704.612	2.348	3.2				
28	665.055	2.216	2.4				
29	662.308	2.207	2.8				
30	652.144	2.173	8.0				
31	649.397	2.164	7.1				
32	642.529	2.141	4.0				
33	630.717	2.102	4.5				
34	571.930	1.906	3.0				
35	561.217	1.870	3.0				
36	558.470	1.861	2.6				
37	520.012	1.733	4.7				
38	516.441	1.721	4.4				
39	508.474	1.695	5.2				



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

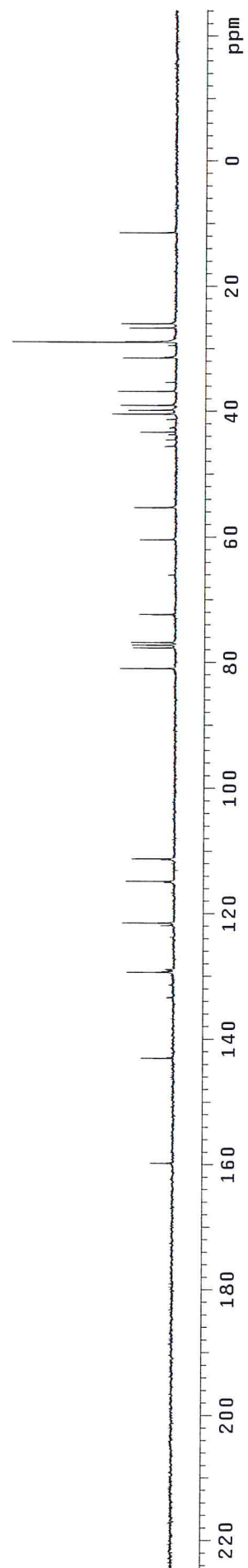
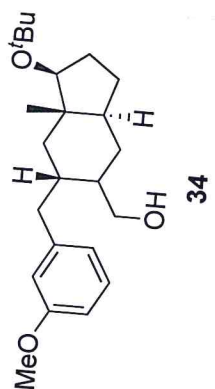


INDEX	FREQUENCY	PPM	HEIGHT	INDEX	FREQUENCY	PPM	HEIGHT
1	2176.742	7.255	2.7	40	551.328	1.837	6.2
2	2164.106	7.213	4.8	41	546.933	1.823	5.6
3	2156.689	7.188	8.1	42	528.253	1.761	5.5
4	2147.898	7.159	6.5	43	519.462	1.731	5.8
5	2032.249	6.773	9.2	44	510.122	1.700	2.9
6	2024.008	6.746	13.9	45	498.310	1.661	2.7
7	2021.810	6.738	13.1	46	493.640	1.645	2.6
8	2015.492	6.717	21.8	47	471.115	1.570	5.4
9	2002.031	6.672	3.3	48	467.818	1.559	5.6
10	1149.355	3.831	4.4	49	458.478	1.528	7.4
11	1144.410	3.814	6.3	50	455.182	1.517	7.6
12	1134.796	3.782	83.3	51	441.722	1.472	7.3
13	1132.049	3.773	26.2	52	435.403	1.451	10.0
14	1126.280	3.754	5.8	53	430.459	1.435	11.3
15	1099.909	3.666	6.5	54	425.789	1.419	10.9
16	1090.019	3.633	9.0	55	423.042	1.410	11.6
17	1086.448	3.621	4.8	56	414.251	1.381	12.0
18	1079.581	3.598	4.4	57	396.670	1.322	5.1
19	1026.014	3.420	4.2	58	387.330	1.291	4.8
20	1018.597	3.395	6.7	59	382.111	1.274	6.0
21	1010.081	3.366	5.0	60	376.892	1.256	8.5
22	793.341	2.644	3.2	61	370.574	1.235	6.2
23	785.374	2.617	3.7	62	360.684	1.202	2.8
24	779.606	2.598	5.6	63	346.125	1.154	5.7
25	771.914	2.573	5.9	64	331.566	1.105	200.0
26	743.894	2.479	4.9	65	320.852	1.069	48.3
27	736.477	2.455	5.9	66	289.536	0.965	5.0
28	730.434	2.434	3.1	67	276.900	0.923	8.5
29	722.742	2.409	3.7	68	264.264	0.881	5.3
30	661.209	2.204	2.9	69	244.485	0.815	3.5
31	657.638	2.192	3.0	70	217.015	0.723	63.1
32	653.517	2.178	3.1	71	210.422	0.701	3.3
33	649.397	2.164	2.9	72	186.798	0.623	14.2
34	645.276	2.151	2.8				
35	610.389	2.034	2.8				
36	568.909	1.896	4.0				
37	564.514	1.881	4.8				
38	560.118	1.867	6.5				
39	555.723	1.852	7.6				

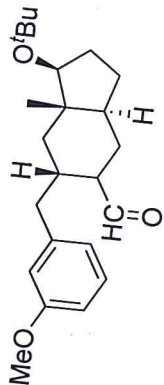




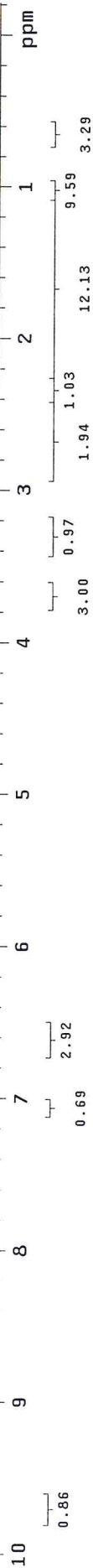
INDEX	FREQUENCY	PPM	HEIGHT
1	12053.195	159.757	3.7
2	10788.900	143.000	5.3
3	9757.079	129.324	7.6
4	9162.723	121.446	8.4
5	8661.128	114.798	7.8
6	8389.717	111.200	6.9
7	6107.343	80.949	8.9
8	5857.691	77.640	6.8
9	5825.626	77.215	7.0
10	5793.560	76.790	7.2
11	5454.582	72.297	5.9
12	4554.459	60.366	5.9
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	28.886	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



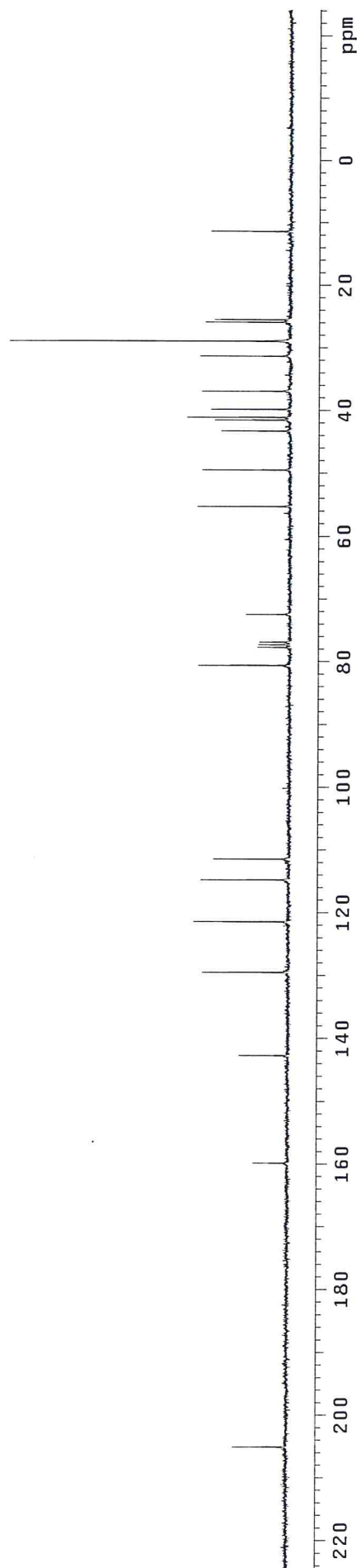
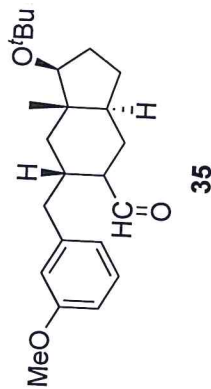
INDEX	FREQUENCY	PPM	HEIGHT	INDEX	FREQUENCY	PPM	HEIGHT	INDEX	FREQUENCY	PPM	HEIGHT
1	2906.901	9.688	8.7	40	586.215	1.954	14.2	79	293.932	0.980	2.1
2	2905.802	9.684	11.8	41	549.130	1.830	2.0	80	292.558	0.975	2.0
3	2904.429	9.680	6.4	42	543.911	1.813	4.5	81	202.456	0.675	50.2
4	2155.865	7.185	1.8	43	541.713	1.805	4.5	82	197.236	0.657	2.3
5	2138.833	7.128	4.8	44	539.790	1.799	4.2	83	190.643	0.635	2.6
6	2131.142	7.103	7.6	45	535.120	1.783	3.0	84	180.480	0.602	2.5
7	2123.175	7.076	5.6	46	530.450	1.768	5.5	85	0.000	0.000	3.9
8	2001.207	6.670	6.2	47	528.527	1.761	4.8				
9	1998.460	6.660	9.5	48	498.310	1.661	3.0				
10	1996.812	6.655	7.3	49	494.739	1.649	2.9				
11	1992.966	6.642	5.8	50	485.674	1.619	3.6				
12	1990.494	6.634	9.5	51	482.103	1.607	3.2				
13	1983.901	6.612	7.9	52	439.249	1.464	1.9				
14	1982.253	6.606	7.4	53	433.480	1.445	2.7				
15	1213.635	4.045	2.8	54	426.063	1.420	4.3				
16	1206.493	4.021	2.8	55	420.569	1.402	6.0				
17	1111.721	3.705	9.3	56	415.625	1.385	5.3				
18	1108.974	3.696	84.7	57	412.603	1.375	5.6				
19	1009.257	3.364	3.5	58	407.384	1.358	4.2				
20	1001.840	3.339	4.9	59	405.186	1.350	3.1				
21	1000.466	3.334	4.1	60	402.988	1.343	2.7				
22	993.049	3.310	3.4	61	399.417	1.331	2.4				
23	863.115	2.877	2.7	62	396.670	1.322	2.2				
24	853.775	2.845	3.3	63	392.000	1.306	1.8				
25	849.655	2.832	4.2	64	389.803	1.299	1.9				
26	840.315	2.801	4.3	65	384.309	1.281	3.9				
27	803.779	2.679	3.7	66	377.991	1.260	2.2				
28	797.186	2.657	4.1	67	371.672	1.239	6.8				
29	790.044	2.633	2.5	68	366.178	1.220	3.1				
30	783.726	2.612	2.6	69	358.487	1.195	9.4				
31	766.695	2.555	6.5	70	354.916	1.183	6.5				
32	711.754	2.372	1.8	71	353.542	1.178	6.5				
33	703.513	2.345	6.2	72	351.344	1.171	12.4				
34	699.392	2.331	2.5	73	344.202	1.147	6.3				
35	652.144	2.173	3.0	74	342.005	1.140	2.8				
36	630.167	2.100	1.9	75	312.062	1.040	200.0				
37	627.695	2.092	1.9	76	307.392	1.024	12.4				
38	626.047	2.086	1.9	77	306.293	1.021	10.6				
39	618.905	2.063	1.8	78	303.821	1.013	11.6				



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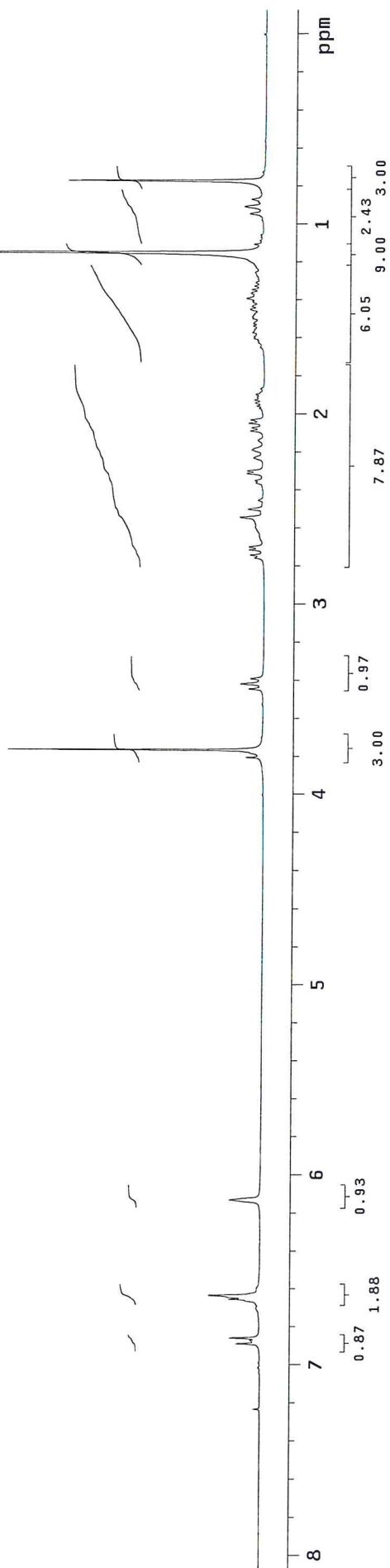
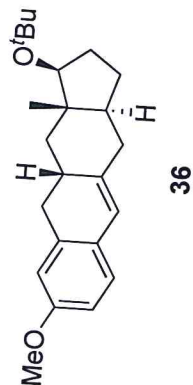


INDEX	FREQUENCY	PPM	HEIGHT
1	15470.456	205.051	8.6
2	12057.776	159.818	5.6
3	10762.560	142.651	7.8
4	9767.386	129.460	13.8
5	9158.142	121.385	15.3
6	8654.257	114.706	14.1
7	8404.604	111.397	12.1
8	6076.423	80.539	14.6
9	5857.691	77.640	5.2
10	5825.626	77.215	5.0
11	5794.705	76.805	4.8
12	5460.309	72.373	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

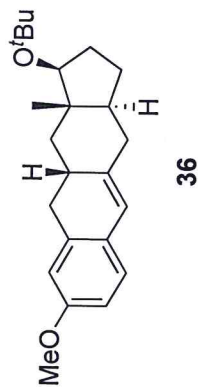


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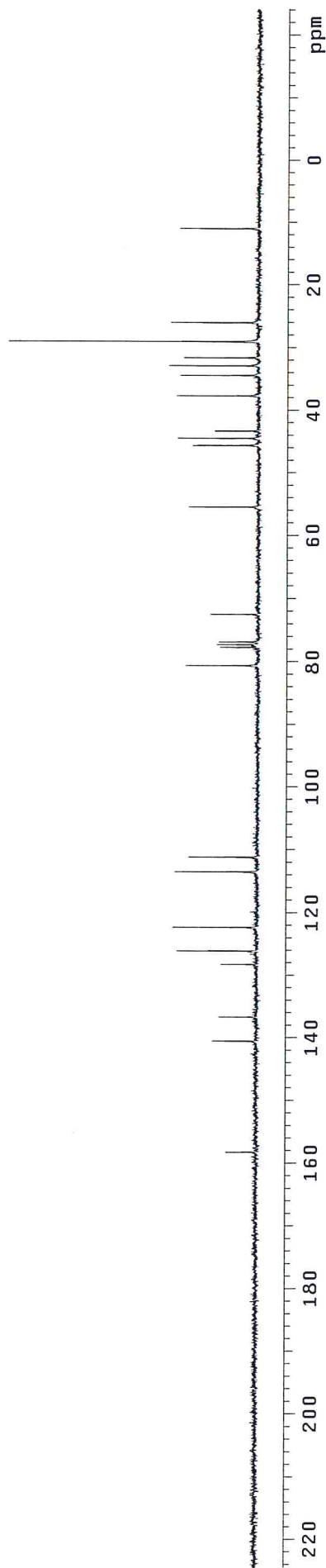
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1	2170.149	7.233	1.1	40	484.300	1.614	1.3
2	2067.411	6.890	4.0	41	480.729	1.602	2.0
3	2061.917	6.872	1.7	42	477.708	1.592	2.0
4	2058.620	6.861	5.0	43	471.389	1.571	2.2
5	1999.559	6.664	2.5	44	466.719	1.555	1.9
6	1997.087	6.656	5.2	45	460.951	1.536	2.1
7	1991.043	6.636	8.4	46	457.105	1.523	2.1
8	1839.682	6.131	5.2	47	455.182	1.517	1.9
9	1141.389	3.804	2.9	48	449.413	1.498	2.2
10	1134.796	3.782	2.3	49	446.391	1.488	2.3
11	1129.576	3.765	41.0	50	444.194	1.480	2.1
12	1032.881	3.442	2.5	51	441.722	1.472	1.9
13	1025.189	3.417	3.9	52	434.579	1.448	2.6
14	1016.948	3.389	2.2	53	430.184	1.434	2.3
15	826.854	2.756	1.7	54	421.943	1.406	2.3
16	822.459	2.741	2.4	55	417.548	1.392	3.2
17	814.218	2.714	2.6	56	409.032	1.363	2.5
18	809.548	2.698	2.6	57	403.538	1.345	2.3
19	778.781	2.596	1.6	58	397.769	1.326	1.9
20	762.849	2.542	4.0	59	392.275	1.307	1.7
21	749.938	2.499	2.7	60	386.506	1.288	1.4
22	735.653	2.452	1.1	61	376.342	1.254	1.8
23	708.732	2.362	1.5	62	368.101	1.227	1.7
24	704.886	2.349	1.6	63	345.026	1.150	109.7
25	693.624	2.312	3.0	64	331.291	1.104	2.0
26	689.503	2.298	2.9	65	325.522	1.085	1.1
27	668.900	2.229	1.9	66	283.218	0.944	2.7
28	656.264	2.187	2.2	67	271.681	0.905	3.6
29	641.430	2.138	1.2	68	264.538	0.882	1.4
30	626.322	2.087	2.4	69	260.418	0.868	2.4
31	621.377	2.071	2.2	70	231.299	0.771	31.8
32	614.235	2.047	2.8				
33	608.741	2.029	2.4				
34	587.039	1.956	1.4				
35	581.820	1.939	1.7				
36	577.699	1.925	1.8				
37	572.755	1.909	1.4				
38	568.909	1.896	1.6				
39	487.322	1.624	1.2				



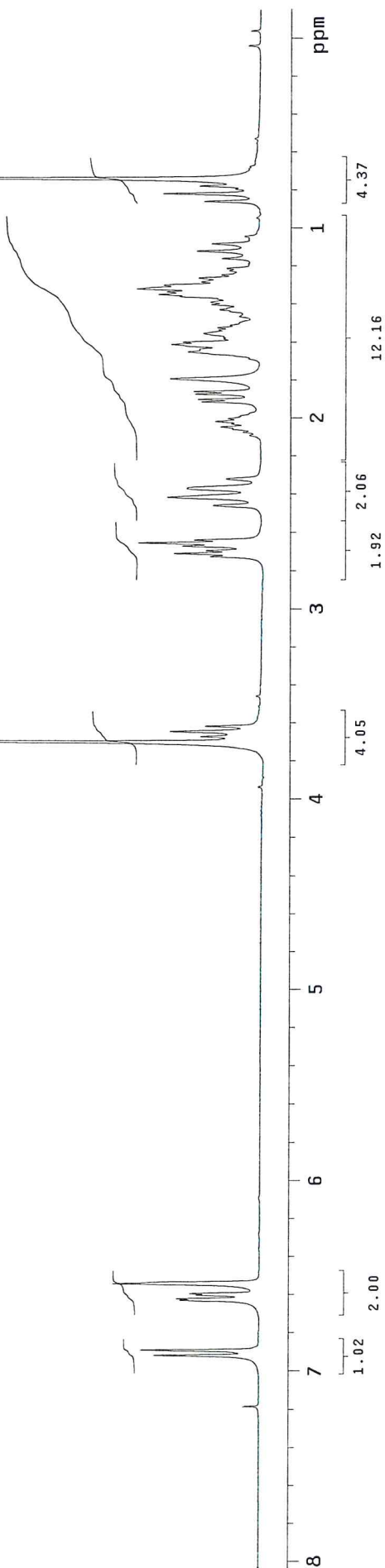
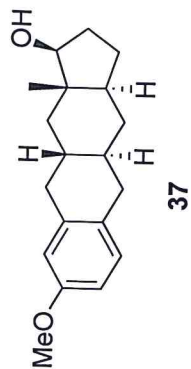
INDEX	FREQUENCY	PPM	HEIGHT
1	11935.240	158.194	4.9
2	10598.797	140.480	7.2
3	10309.063	136.640	6.1
4	9672.335	128.200	5.8
5	9509.717	126.045	12.9
6	9224.564	122.266	13.5
7	8559.205	113.447	13.2
8	8383.991	111.124	11.0
9	6076.423	80.539	11.6
10	5857.691	77.640	6.0
11	5825.625	77.215	6.6
12	5793.560	76.790	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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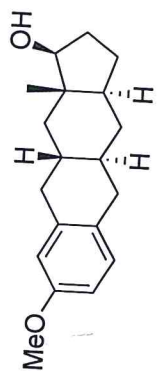


INDEX	FREQUENCY	PPM	HEIGHT	INDEX	FREQUENCY	PPM	HEIGHT
1	2155.954	7.185	2.6	40	470.929	1.570	6.3
2	2154.855	7.182	2.4	41	465.160	1.550	9.4
3	2076.290	6.920	16.9	42	459.666	1.532	7.0
4	2068.049	6.892	19.1	43	456.095	1.520	7.2
5	1989.484	6.631	12.8	44	452.249	1.507	5.1
6	1987.012	6.622	13.3	45	438.514	1.461	3.7
7	1980.968	6.602	10.3	46	427.526	1.425	6.8
8	1978.496	6.594	11.2	47	419.560	1.398	8.1
9	1963.388	6.544	23.5	48	416.263	1.387	8.2
10	1110.162	3.700	149.4	49	407.473	1.358	13.2
11	1109.063	3.696	150.0	50	404.176	1.347	16.6
12	1101.371	3.671	9.7	51	399.781	1.332	15.3
13	1093.130	3.643	14.6	52	395.386	1.318	20.0
14	1084.889	3.616	9.0	53	389.617	1.299	15.7
15	817.054	2.723	8.2	54	384.123	1.280	9.7
16	812.659	2.708	14.0	55	378.080	1.260	10.1
17	807.989	2.693	8.9	56	373.135	1.244	6.6
18	800.847	2.669	12.7	57	366.268	1.221	5.3
19	796.177	2.654	19.7	58	362.971	1.210	5.7
20	791.507	2.638	10.8	59	347.038	1.157	6.5
21	737.116	2.457	7.8	60	335.501	1.118	10.5
22	724.480	2.415	15.1	61	323.689	1.079	8.0
23	711.019	2.370	11.9	62	312.426	1.041	2.9
24	695.636	2.318	5.7	63	256.936	0.856	9.3
25	621.741	2.072	3.1	64	244.849	0.816	15.9
26	613.500	2.045	6.7	65	237.157	0.790	4.4
27	608.555	2.028	4.9	66	232.762	0.776	10.0
28	604.984	2.016	7.5	67	220.950	0.736	117.2
29	600.314	2.001	5.5				
30	597.292	1.991	3.8				
31	573.668	1.912	9.7				
32	569.822	1.899	10.3				
33	561.306	1.871	10.7				
34	557.460	1.858	10.9				
35	537.407	1.791	14.7				
36	494.828	1.649	11.8				
37	482.741	1.609	14.4				
38	479.170	1.597	12.7				
39	473.951	1.580	6.2				

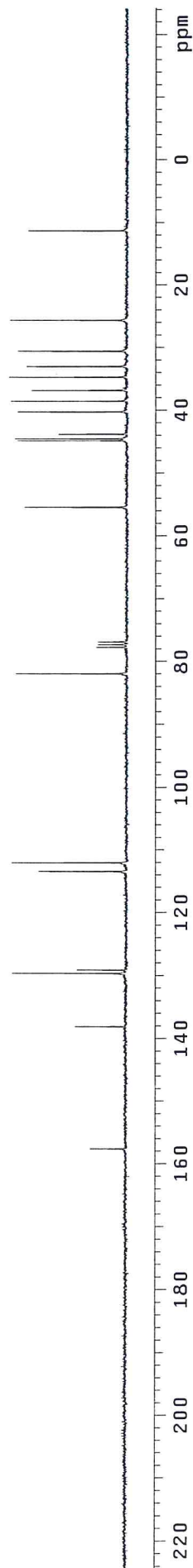




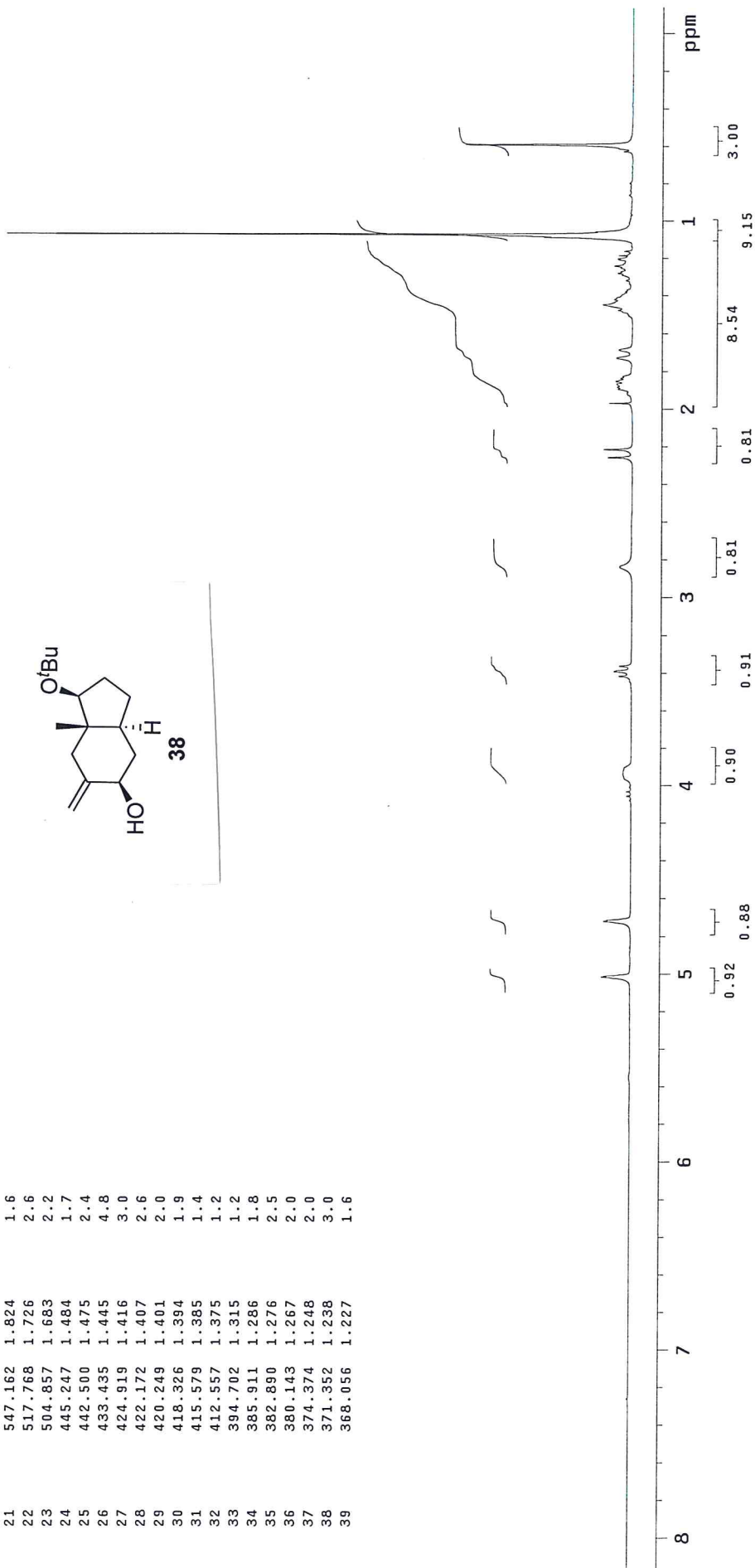
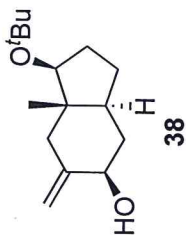
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1	11887.142	157.556	5.7
2	10414.421	138.036	8.2
3	9775.403	129.567	18.2
4	9735.321	129.035	7.9
5	8552.335	113.356	14.0
6	8448.122	111.974	18.3
7	6177.201	81.875	17.7
8	5857.691	77.640	4.8
9	5825.626	77.215	4.6
10	5793.560	76.790	4.5
11	4174.255	55.327	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



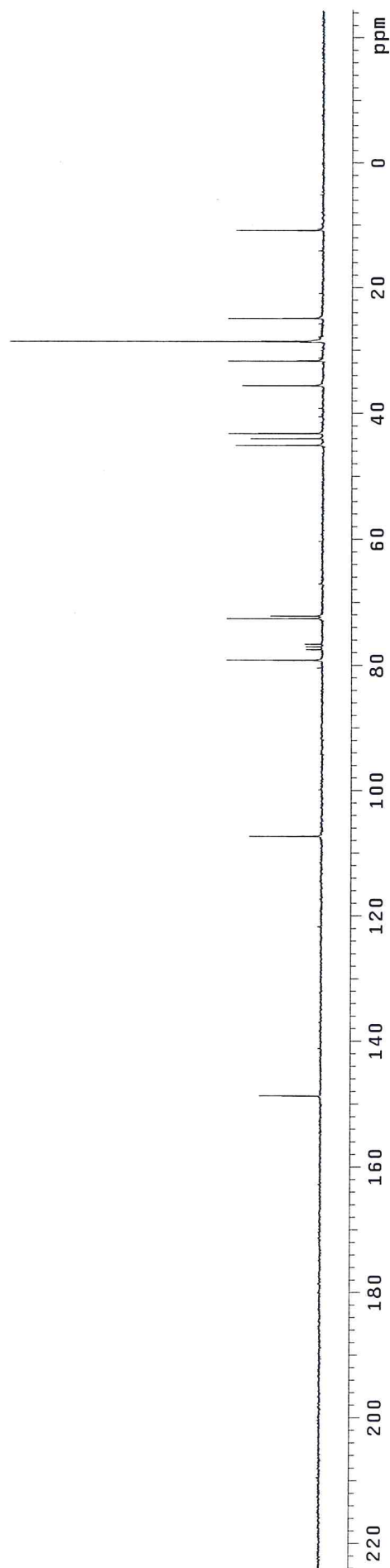
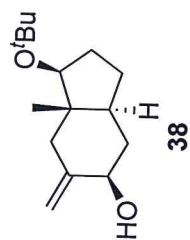
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INDEX	FREQUENCY	PPM	HEIGHT	INDEX	FREQUENCY	PPM	HEIGHT
1	1504.500	5.014	4.7	40	361.737	1.206	2.3
2	1503.126	5.010	4.3	41	359.815	1.199	2.5
3	1415.771	4.718	4.4	42	354.595	1.182	2.3
4	1414.123	4.713	3.9	43	347.453	1.158	1.4
5	1182.548	3.941	1.3	44	325.477	1.085	14.2
6	1177.604	3.925	1.3	45	321.082	1.070	100.0
7	1171.835	3.905	1.2	46	316.686	1.055	6.1
8	1024.320	3.414	2.1	47	312.291	1.041	1.9
9	1016.903	3.389	2.9	48	187.301	0.624	1.6
10	1008.112	3.360	2.0	49	182.357	0.608	2.4
11	850.708	2.835	2.0	50	176.588	0.589	26.8
12	676.546	2.255	3.9				
13	663.635	2.212	4.6				
14	589.740	1.965	3.8				
15	567.215	1.890	2.4				
16	564.468	1.881	2.5				
17	560.622	1.868	2.4				
18	558.699	1.862	2.6				
19	554.853	1.849	2.7				
20	549.909	1.833	2.0				
21	547.162	1.824	1.6				
22	517.768	1.726	2.6				
23	504.857	1.683	2.2				
24	445.247	1.484	1.7				
25	442.500	1.475	2.4				
26	433.435	1.445	4.8				
27	424.919	1.416	3.0				
28	422.172	1.407	2.6				
29	420.249	1.401	2.0				
30	418.326	1.394	1.9				
31	415.579	1.385	1.4				
32	412.557	1.375	1.2				
33	394.702	1.315	1.2				
34	385.911	1.286	1.8				
35	382.890	1.276	2.5				
36	380.143	1.267	2.0				
37	374.374	1.248	2.0				
38	371.352	1.238	3.0				
39	368.056	1.227	1.6				

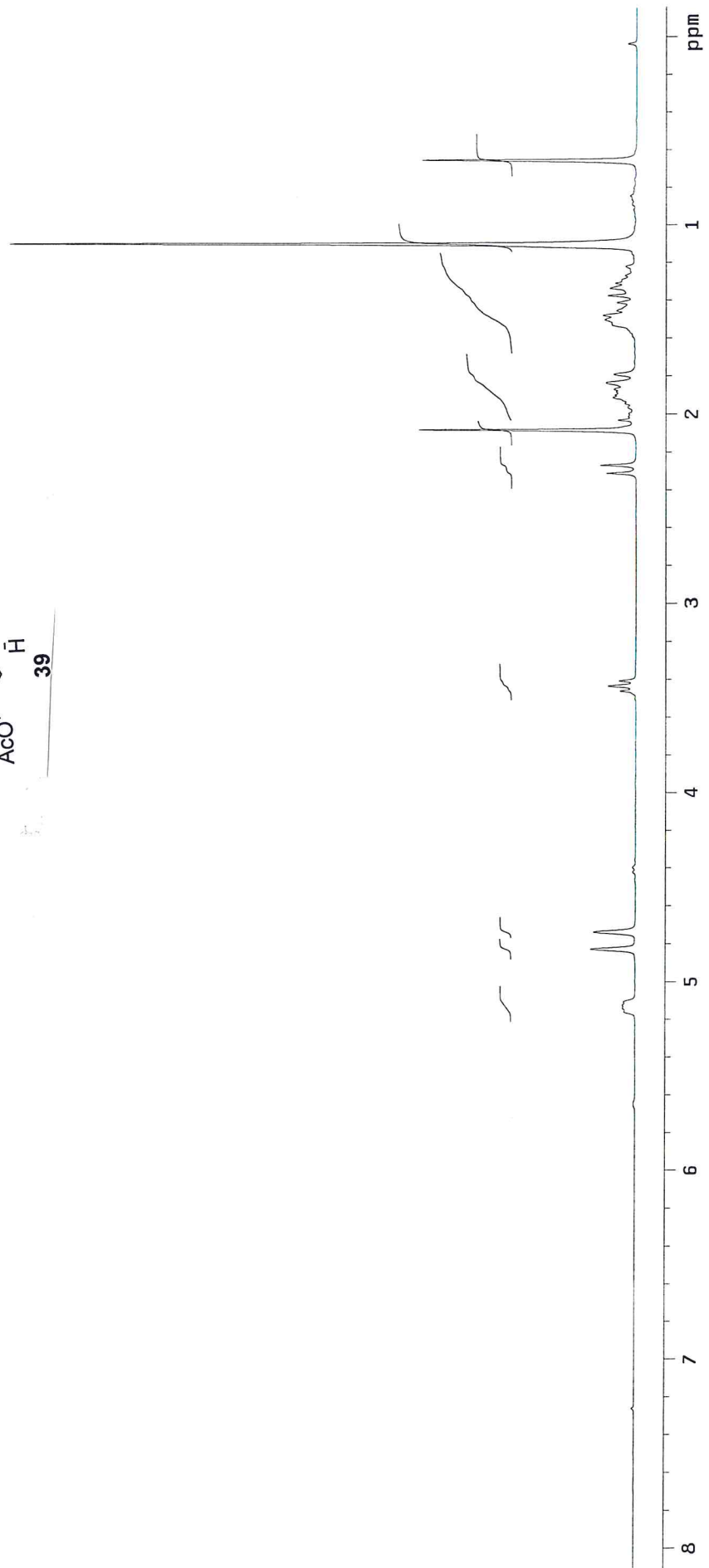
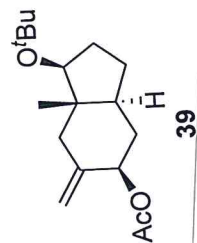


INDEX	FREQUENCY	PPM	HEIGHT
1	11213.594	148.629	9.9
2	8091.793	107.251	11.6
3	5968.602	79.110	15.3
4	5809.420	77.000	2.6
5	5777.354	76.575	2.8
6	5470.442	72.507	15.3
7	5440.667	72.112	8.3
8	3394.204	44.988	13.9
9	3311.750	43.895	11.5
10	3251.055	43.091	15.1
11	2678.457	35.501	12.9
12	2384.142	31.600	15.1
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

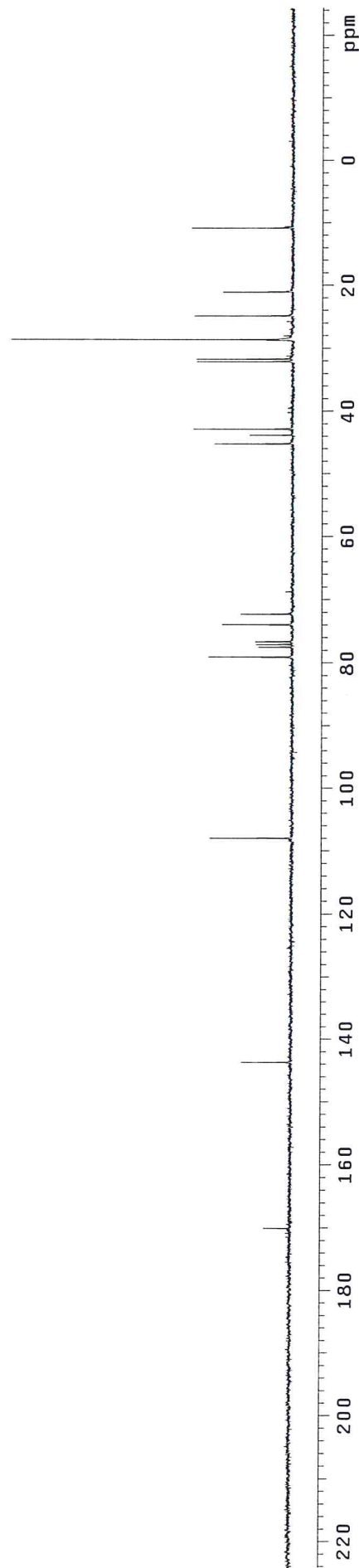
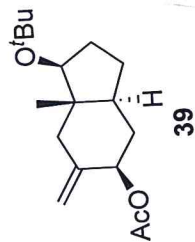


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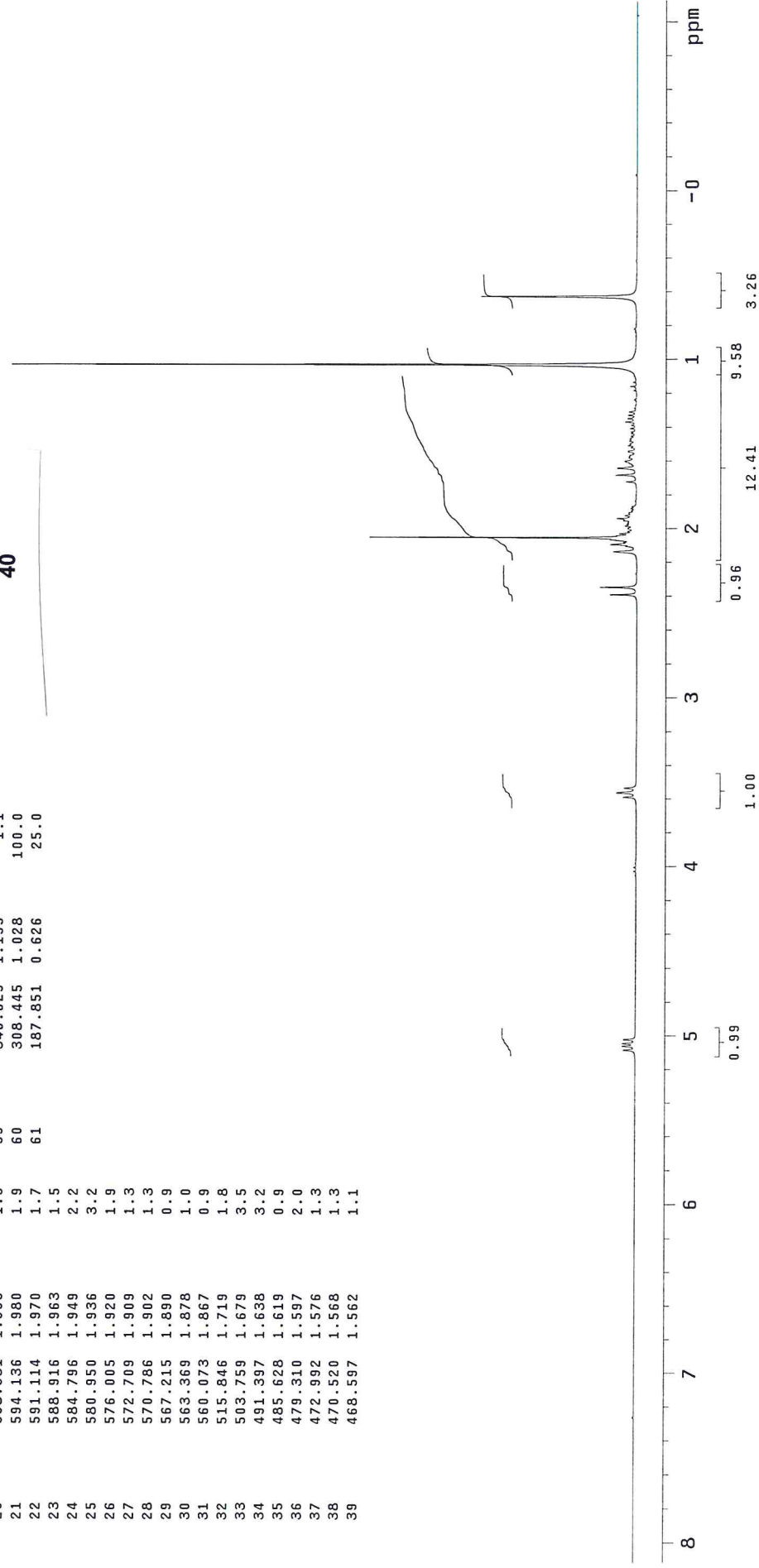
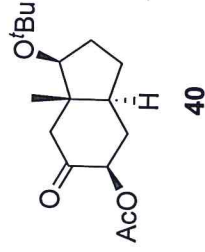
Pulse Sequence: s2pu1



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

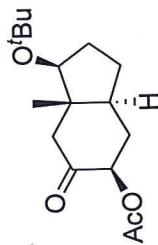


INDEX	FREQUENCY	PPM	HEIGHT	INDEX	FREQUENCY	PPM	HEIGHT
1	1525.102	5.083	2.0	40	462.279	1.541	1.4
2	1517.960	5.059	2.2	41	461.180	1.537	1.4
3	1513.565	5.044	2.2	42	454.862	1.516	1.0
4	1506.423	5.021	2.0	43	451.290	1.504	1.4
5	1076.238	3.587	2.2	44	449.642	1.499	1.1
6	1068.547	3.561	3.2	45	447.719	1.492	1.2
7	1060.031	3.533	2.0	46	443.599	1.478	1.2
8	716.653	2.388	4.3	47	441.951	1.473	1.0
9	703.467	2.345	5.9	48	440.028	1.467	1.2
10	640.286	2.134	3.8	49	437.830	1.459	1.1
11	630.946	2.103	1.8	50	434.534	1.448	1.0
12	627.375	2.091	4.3	51	430.138	1.434	1.0
13	623.804	2.079	2.3	52	427.391	1.424	1.0
14	618.859	2.063	4.3	53	421.073	1.403	1.1
15	615.288	2.051	42.7	54	415.304	1.384	0.9
16	611.991	2.040	3.4	55	409.536	1.365	1.9
17	608.420	2.028	2.9	56	403.492	1.345	1.5
18	604.025	2.013	1.6	57	397.723	1.326	1.4
19	599.904	1.999	1.4	58	391.955	1.306	1.3
20	598.531	1.995	1.5	59	346.629	1.155	1.1
21	594.136	1.980	1.9	60	308.445	1.028	100.0
22	591.114	1.970	1.7	61	187.851	0.626	25.0
23	588.916	1.963	1.5				
24	584.796	1.949	2.2				
25	580.950	1.936	3.2				
26	576.005	1.920	1.9				
27	572.709	1.909	1.3				
28	570.786	1.902	1.3				
29	567.215	1.890	0.9				
30	563.369	1.878	1.0				
31	560.073	1.867	0.9				
32	515.846	1.719	1.8				
33	503.759	1.679	3.5				
34	491.397	1.638	3.2				
35	485.628	1.619	0.9				
36	479.310	1.597	2.0				
37	472.992	1.576	1.3				
38	470.520	1.568	1.3				
39	468.597	1.562	1.1				

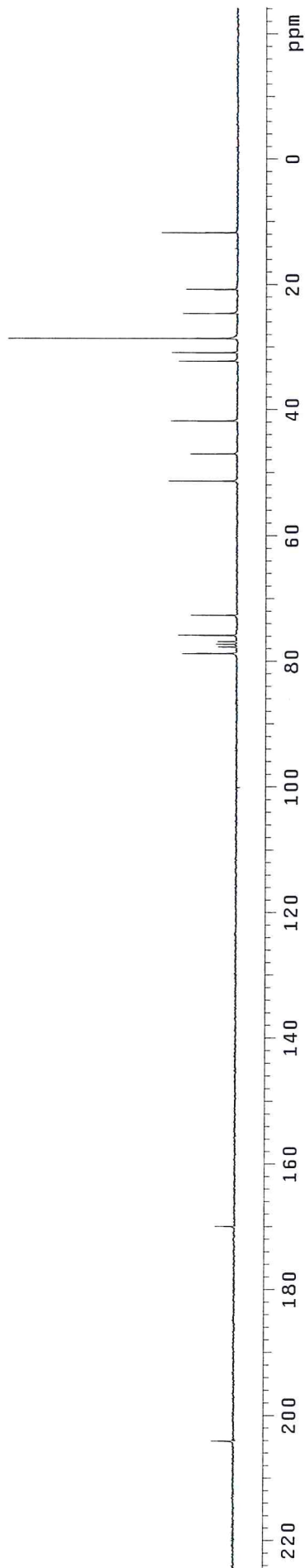




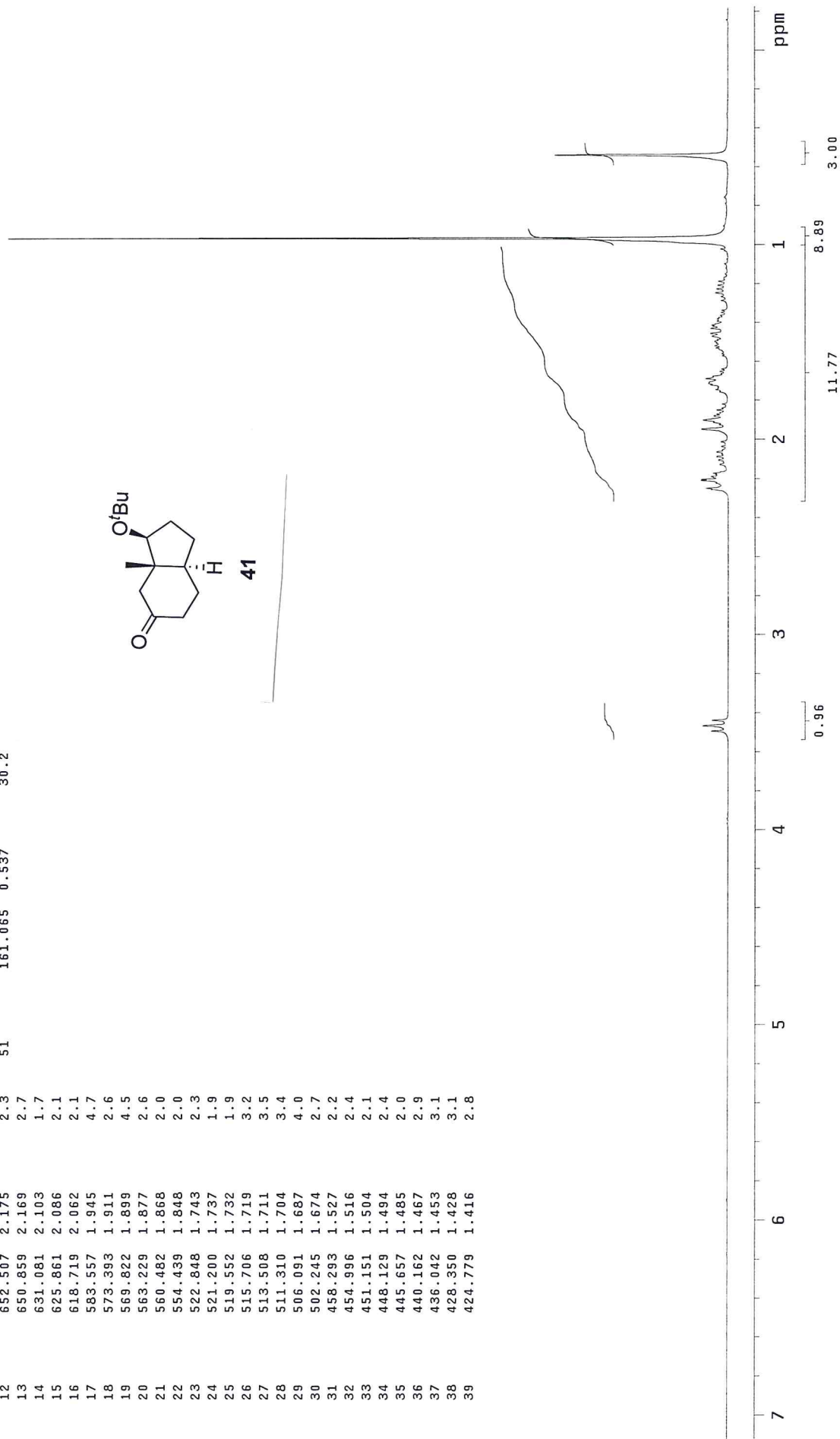
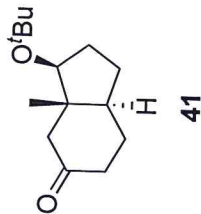
INDEX	FREQUENCY	PPM	HEIGHT
1	15394.874	204.049	3.6
2	12818.185	169.897	3.1
3	5937.855	78.702	8.8
4	5857.691	77.640	3.0
5	5825.626	77.215	3.4
6	5793.561	76.790	3.1
7	5717.978	75.788	9.4
8	5475.196	72.570	7.4
9	3869.633	51.289	11.0
10	3544.398	46.979	7.6
11	3149.306	41.742	10.7
12	2428.978	32.195	9.4
13	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



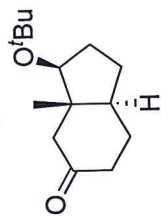
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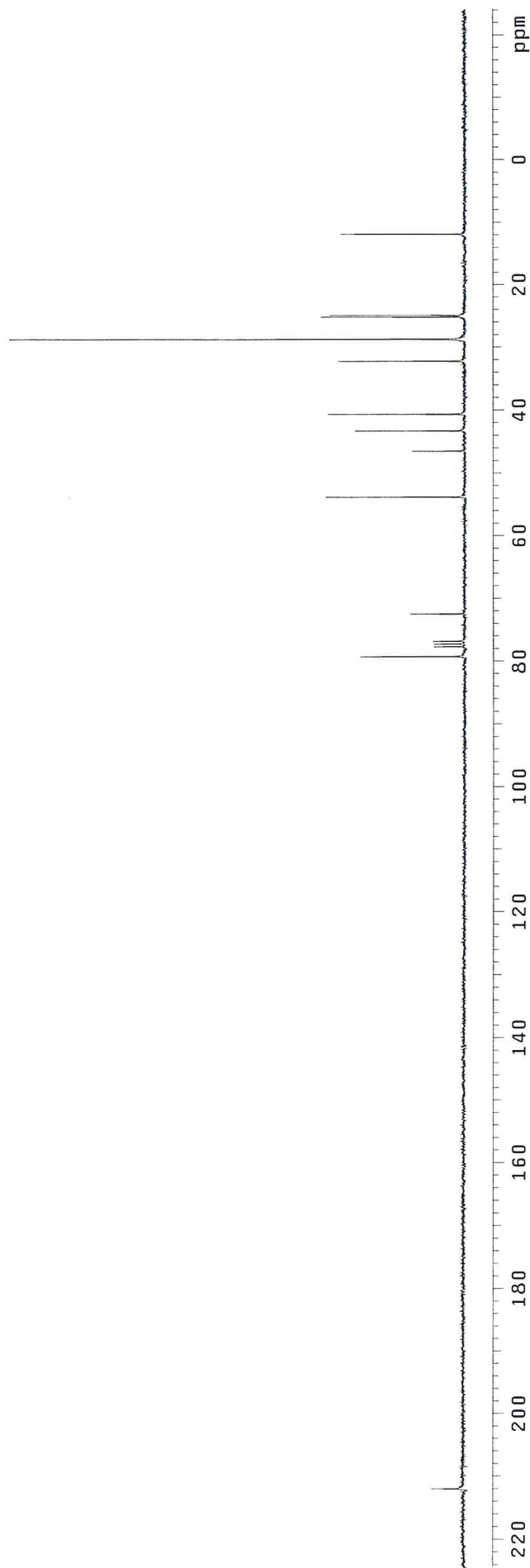
INDEX	FREQUENCY	PPM	HEIGHT	INDEX	FREQUENCY	PPM	HEIGHT
1	1047.530	3.491	3.1	40	423.131	1.410	3.0
2	1039.563	3.465	4.5	41	421.208	1.404	2.4
3	1031.047	3.436	2.9	42	416.813	1.389	2.0
4	675.857	2.253	3.0	43	415.439	1.385	1.8
5	674.209	2.247	3.9	44	413.242	1.377	2.0
6	666.243	2.220	2.2	45	411.319	1.371	1.7
7	662.397	2.208	4.8	46	373.135	1.244	2.3
8	660.474	2.201	4.8	47	367.092	1.223	2.0
9	657.727	2.192	2.7	48	361.598	1.205	1.8
10	656.079	2.187	3.0	49	355.554	1.185	1.8
11	654.156	2.180	2.1	50	289.076	0.963	125.0
12	652.507	2.175	2.3	51	161.065	0.537	30.2
13	650.859	2.169	2.7				
14	631.081	2.103	1.7				
15	625.861	2.086	2.1				
16	618.719	2.062	2.1				
17	583.557	1.945	4.7				
18	573.393	1.911	2.6				
19	569.822	1.899	4.5				
20	563.229	1.877	2.6				
21	560.482	1.868	2.0				
22	554.439	1.848	2.0				
23	522.848	1.743	2.3				
24	521.200	1.737	1.9				
25	519.552	1.732	1.9				
26	515.706	1.719	3.2				
27	513.508	1.711	3.5				
28	511.310	1.704	3.4				
29	506.091	1.687	4.0				
30	502.245	1.674	2.7				
31	458.293	1.527	2.2				
32	454.996	1.516	2.4				
33	451.151	1.504	2.1				
34	448.129	1.494	2.4				
35	445.657	1.485	2.0				
36	440.162	1.467	2.9				
37	436.042	1.453	3.1				
38	428.350	1.428	3.1				
39	424.779	1.416	2.8				



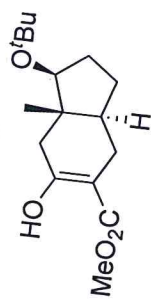
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1	15994.956	212.003	5.2
2	5977.937	79.234	16.7
3	5857.691	77.640	4.9
4	5825.626	77.215	4.9
5	5793.560	76.790	5.0
6	5464.890	72.433	8.7
7	4055.155	53.748	22.3
8	3503.171	46.432	8.4
9	3261.535	43.229	17.5
10	3061.126	40.573	21.9
11	2424.397	32.134	20.2
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



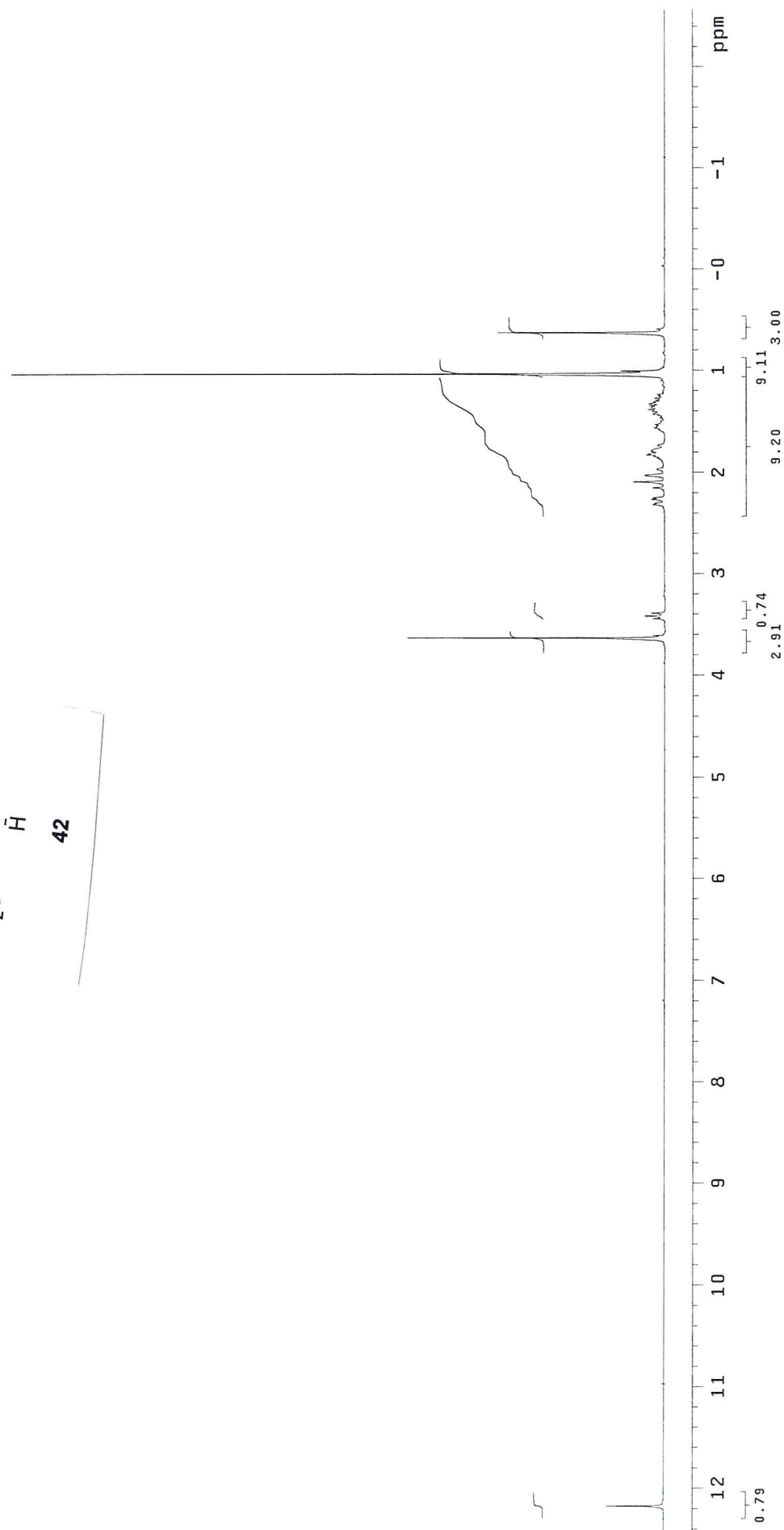
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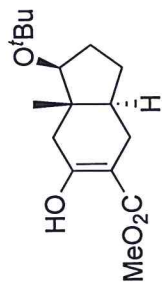
INDEX	FREQUENCY	PPM	HEIGHT
1	3652.808	12.174	9.6
2	1089.010	3.629	42.3
3	309.129	1.030	107.1
4	186.887	0.623	27.4



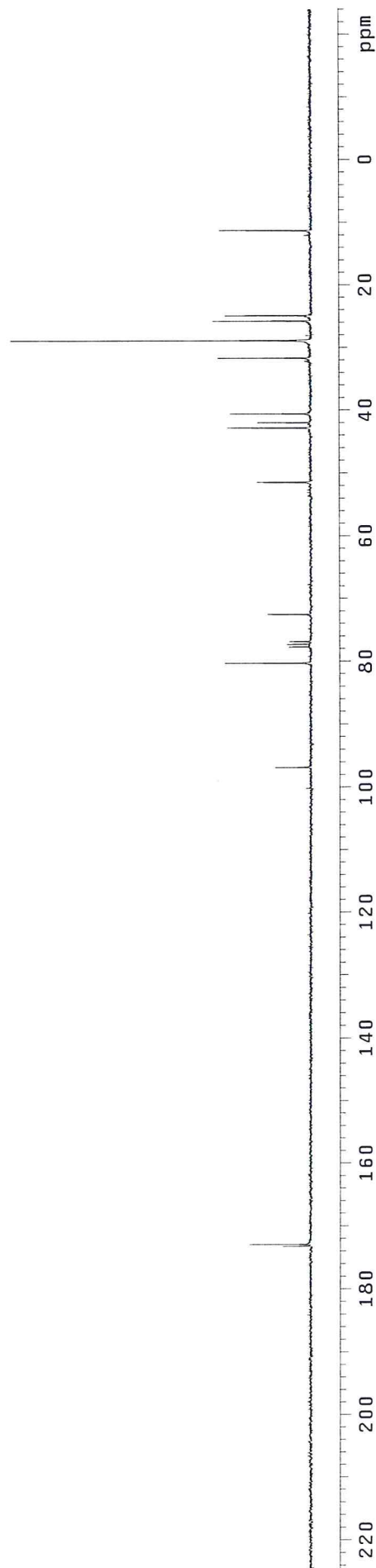
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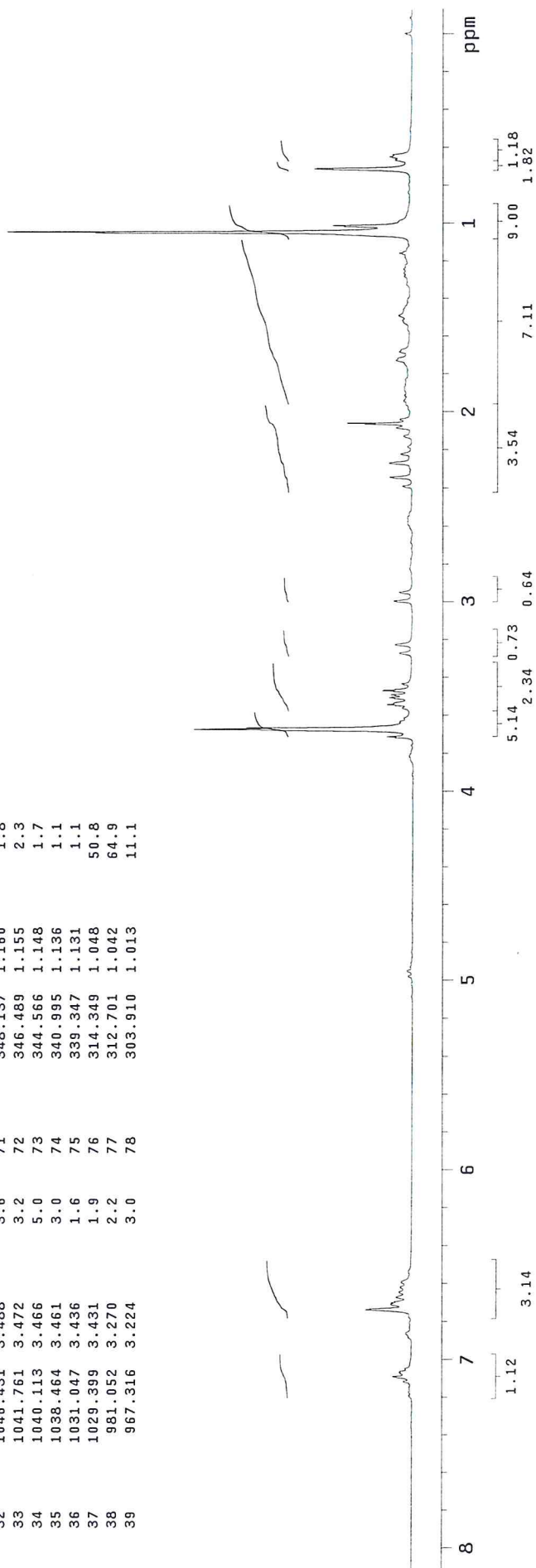
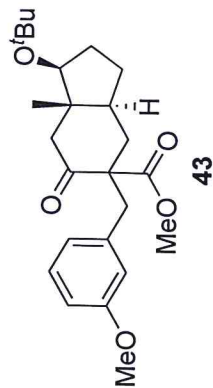
INDEX	FREQUENCY	PPM	HEIGHT
1	13065.547	173.175	4.6
2	13044.933	172.902	9.9
3	7301.782	96.780	5.7
4	6054.664	80.251	13.8
5	5858.836	77.655	3.5
6	5826.771	77.230	3.8
7	5794.705	76.805	3.4
8	5467.180	72.464	6.9
9	3877.649	51.396	8.6
10	3226.033	42.759	13.3
11	3161.902	41.909	8.5
12	3055.399	40.497	12.9
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



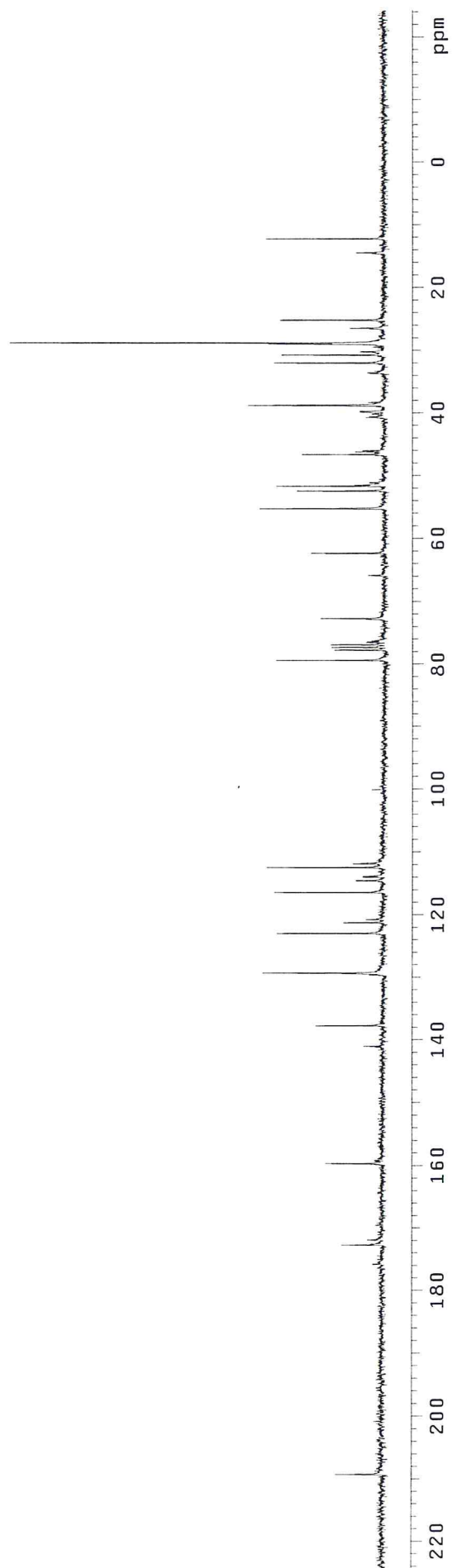
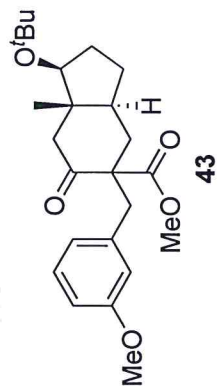
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INDEX	FREQUENCY	PPM	HEIGHT	INDEX	FREQUENCY	PPM	HEIGHT	INDEX	FREQUENCY	PPM	HEIGHT	INDEX	FREQUENCY	PPM	HEIGHT
1	2134.802	7.115	1.4	40	897.817	2.992	3.1	79	302.537	1.008	13.0				
2	2127.110	7.089	3.2	41	884.082	2.946	2.3	80	212.709	0.709	15.9				
3	2122.166	7.073	2.0	42	716.238	2.387	1.8	81	199.248	0.664	3.0				
4	2120.243	7.066	2.1	43	701.954	2.339	3.9	82	197.326	0.658	3.0				
5	2118.869	7.062	2.0	44	680.252	2.267	3.9	83	193.480	0.645	3.9				
6	2114.749	7.048	1.1	45	665.968	2.220	2.1	84	192.106	0.640	3.4				
7	2021.624	6.738	7.5	46	637.674	2.125	1.6	85	190.183	0.634	3.4				
8	2020.251	6.733	6.8	47	624.213	2.080	2.8	86	-0.460	-0.002	1.2				
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	611.302	2.037	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								

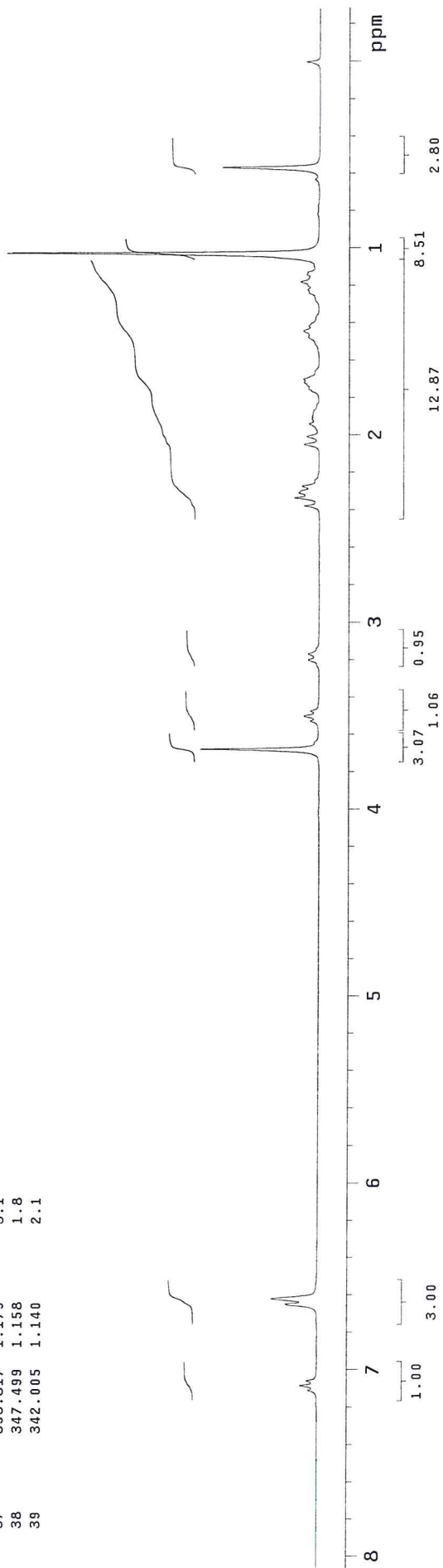
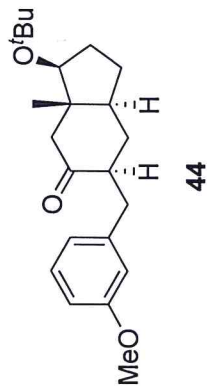


INDEX	FREQUENCY	PPM	HEIGHT
1	15786.530	209.240	7.5
2	13026.611	172.659	6.6
3	12039.453	159.575	9.2
4	10386.937	137.672	10.8
5	9758.225	129.339	6.6
6	9750.209	129.233	19.3
7	9271.517	122.888	17.0
8	9140.965	121.157	6.3
9	8777.938	116.346	17.5
10	8479.042	112.384	18.7
11	5982.518	79.294	17.2
12	5857.692	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



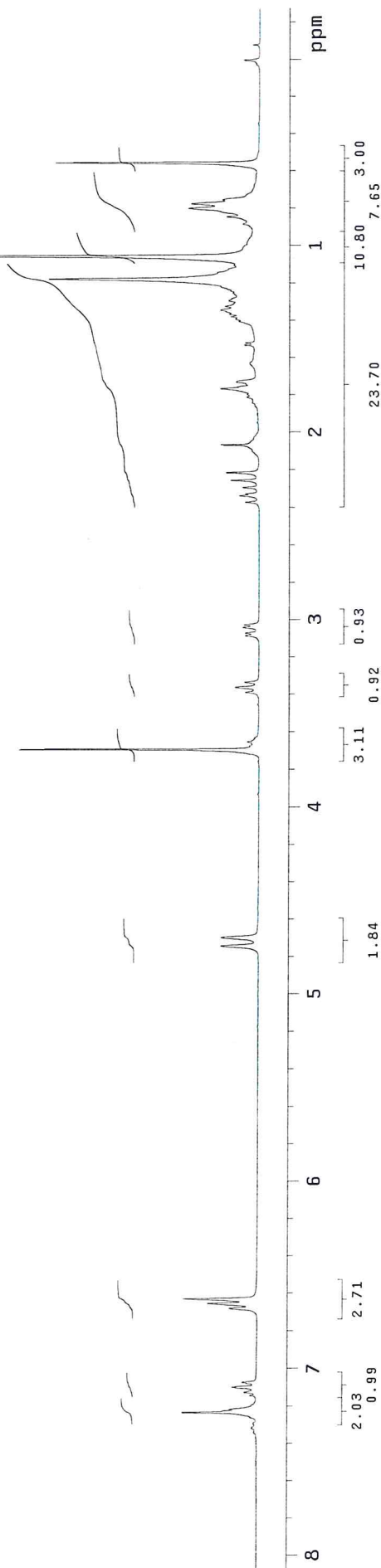
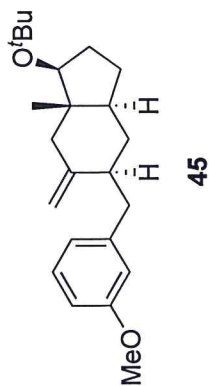


INDEX	FREQUENCY	PPM	HEIGHT	INDEX	FREQUENCY	PPM	HEIGHT
1	2133.339	7.110	1.5	40	338.159	1.127	2.0
2	2125.647	7.084	2.8	41	328.544	1.095	1.0
3	2118.231	7.060	1.8	42	308.216	1.027	50.0
4	1994.889	6.649	5.2	43	188.995	0.630	0.8
5	1986.373	6.620	7.4	44	169.766	0.566	15.6
6	1103.754	3.679	19.0	45	0.000	0.000	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				

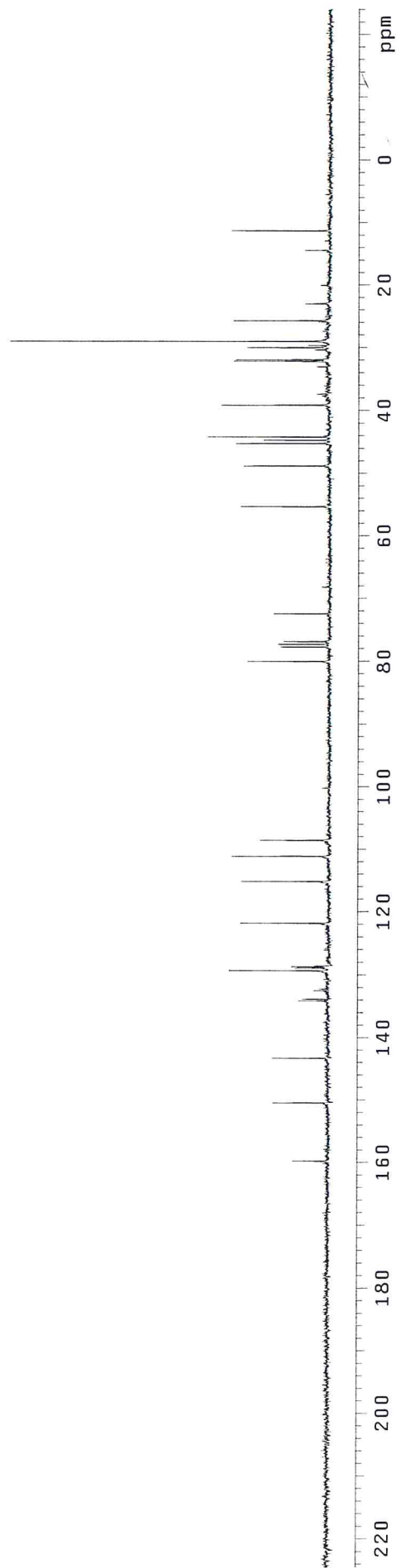
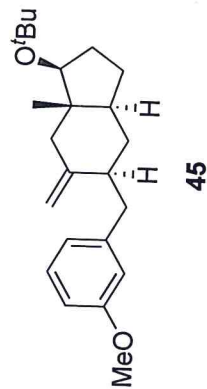




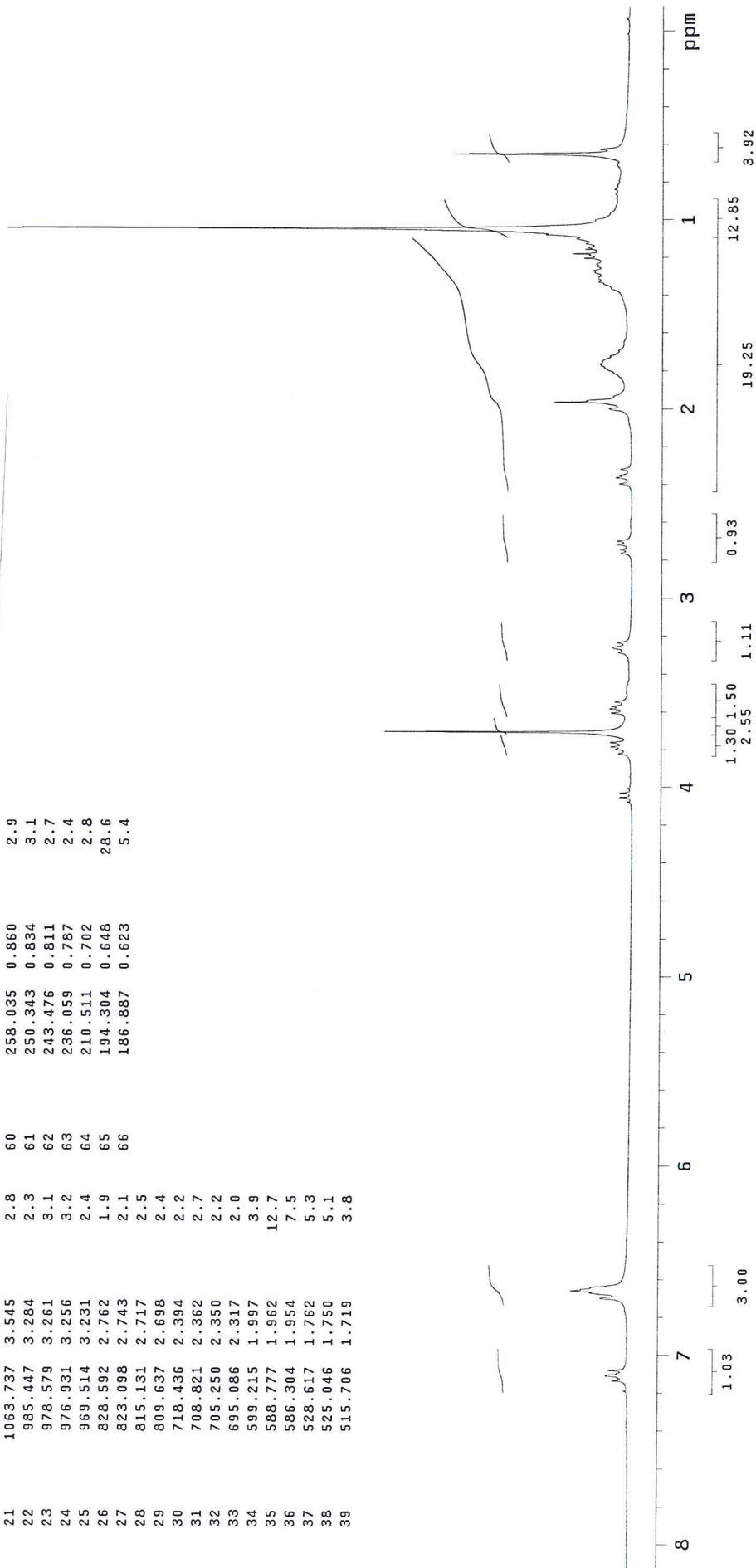
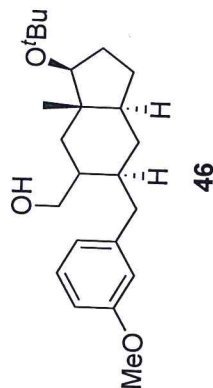
INDEX	FREQUENCY	PPM	HEIGHT	INDEX	FREQUENCY	PPM	HEIGHT
1	2195.971	7.319	0.9	40	676.317	2.254	4.6
2	2195.147	7.316	0.9	41	663.956	2.213	5.4
3	2193.499	7.311	0.8	42	620.278	2.067	5.8
4	2178.116	7.259	1.2	43	619.179	2.064	6.3
5	2171.248	7.236	12.1	44	551.877	1.839	1.3
6	2170.424	7.234	12.1	45	543.087	1.810	2.1
7	2165.754	7.218	4.6	46	539.241	1.797	2.1
8	2164.930	7.215	4.2	47	529.626	1.765	6.3
9	2143.503	7.144	1.2	48	526.605	1.755	3.7
10	2142.404	7.140	1.3	49	518.913	1.729	3.8
11	2138.284	7.126	2.1	50	488.421	1.628	1.7
12	2137.460	7.124	2.1	51	459.577	1.532	2.5
13	2129.768	7.098	4.1	52	458.478	1.528	2.6
14	2128.944	7.095	3.5	53	456.006	1.520	2.4
15	2122.626	7.074	2.5	54	454.907	1.516	2.4
16	2121.252	7.070	2.3	55	420.844	1.403	3.5
17	2004.229	6.680	4.6	56	417.273	1.391	4.0
18	1996.537	6.654	8.1	57	413.427	1.378	4.7
19	1989.395	6.630	11.9	58	409.307	1.364	5.0
20	1422.959	4.742	6.2	59	402.714	1.342	6.3
21	1409.498	4.698	6.1	60	396.670	1.322	5.7
22	1108.699	3.695	38.3	61	387.605	1.292	5.1
23	1107.875	3.692	38.1	62	375.244	1.251	4.4
24	1102.930	3.676	1.6	63	371.947	1.240	4.7
25	1102.106	3.673	1.6	64	352.993	1.176	33.7
26	1096.337	3.654	1.9	65	330.467	1.101	4.3
27	1095.239	3.650	1.9	66	316.732	1.056	100.0
28	1089.745	3.632	0.8	67	315.908	1.053	99.2
29	1016.399	3.387	2.3	68	295.855	0.986	2.2
30	1008.158	3.360	3.9	69	264.538	0.882	2.8
31	1000.192	3.333	2.4	70	253.001	0.843	5.4
32	925.198	3.084	2.3	71	239.815	0.799	11.5
33	921.077	3.070	2.3	72	232.124	0.774	11.0
34	912.012	3.040	2.7	73	225.805	0.753	6.0
35	907.892	3.026	2.5	74	166.195	0.554	32.6
36	711.205	2.370	2.3	75	0.000	0.000	2.7
37	701.041	2.336	3.3	76	-23.899	-0.080	1.2
38	698.019	2.326	2.3	77	-24.998	-0.083	1.2
39	687.855	2.292	2.8				



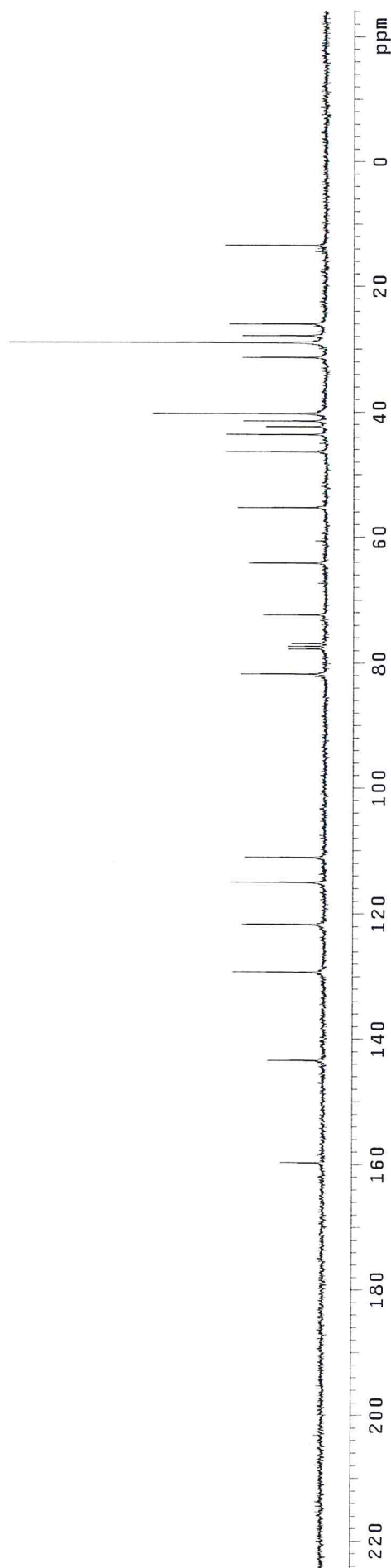
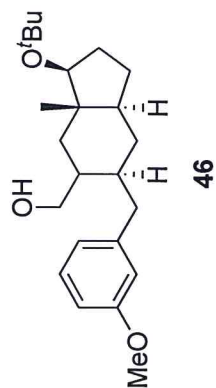
INDEX	FREQUENCY	PPM	HEIGHT
1	12049.986	159.715	5.7
2	11346.837	150.395	8.9
3	10806.305	143.230	9.0
4	9751.580	129.251	16.0
5	9721.805	128.856	5.4
6	9702.337	128.598	6.0
7	9184.709	121.737	14.2
8	8683.114	115.089	14.0
9	8377.347	111.036	15.6
10	8184.954	108.486	11.0
11	6033.133	79.965	13.2
12	5857.918	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



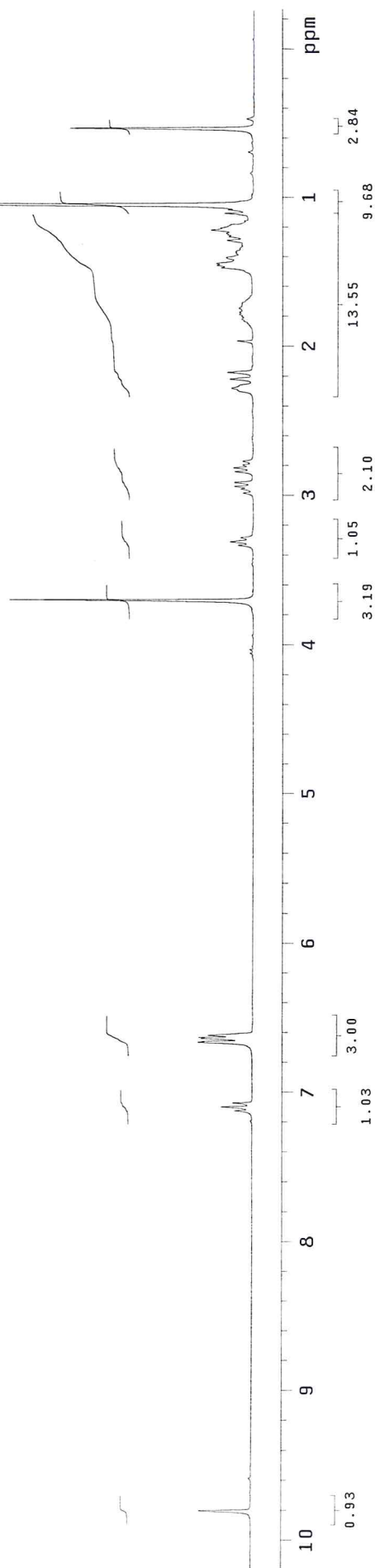
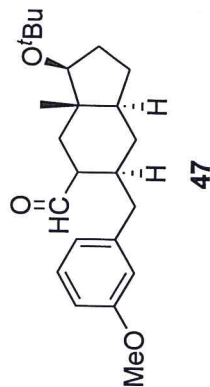
INDEX	FREQUENCY	PPM	HEIGHT	INDEX	FREQUENCY	PPM	HEIGHT
1	2140.845	7.135	2.6	40	507.190	1.690	2.4
2	2133.154	7.109	3.7	41	398.682	1.329	5.6
3	2132.055	7.106	3.7	42	393.463	1.311	5.7
4	2129.033	7.096	1.9	43	383.848	1.279	6.3
5	2124.638	7.081	3.2	44	380.552	1.268	6.5
6	2010.087	6.699	4.6	45	373.410	1.245	5.9
7	2001.571	6.671	6.3	46	369.839	1.233	6.0
8	1998.000	6.659	9.4	47	360.499	1.201	8.0
9	1996.077	6.653	7.8	48	356.104	1.187	7.2
10	1992.781	6.642	6.2	49	353.357	1.178	9.9
11	1215.922	4.052	2.0	50	349.511	1.165	6.1
12	1208.780	4.029	2.0	51	346.214	1.154	7.8
13	1145.873	3.819	2.2	52	343.193	1.144	7.3
14	1138.731	3.795	2.7	53	337.424	1.125	7.6
15	1135.160	3.783	3.4	54	329.457	1.098	9.1
16	1128.292	3.760	3.6	55	323.414	1.078	14.1
17	1112.085	3.706	39.5	56	316.272	1.054	33.4
18	1081.318	3.604	3.4	57	313.799	1.046	100.0
19	1074.450	3.581	3.7	58	299.240	0.997	6.2
20	1070.605	3.568	3.3	59	265.177	0.884	2.8
21	1063.737	3.545	2.8	60	258.035	0.860	2.9
22	985.447	3.284	2.3	61	250.343	0.834	3.1
23	978.579	3.261	3.1	62	243.476	0.811	2.7
24	976.931	3.256	3.2	63	236.059	0.787	2.4
25	969.514	3.231	2.4	64	210.511	0.702	2.8
26	828.592	2.762	1.9	65	194.304	0.648	28.6
27	823.098	2.743	2.1	66	186.887	0.623	5.4
28	815.131	2.717	2.5				
29	809.637	2.698	2.4				
30	718.436	2.394	2.2				
31	708.821	2.362	2.7				
32	705.250	2.350	2.2				
33	695.086	2.317	2.0				
34	599.215	1.997	3.9				
35	588.777	1.962	12.7				
36	586.304	1.954	7.5				
37	528.617	1.762	5.3				
38	525.046	1.750	5.1				
39	515.706	1.719	3.8				



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

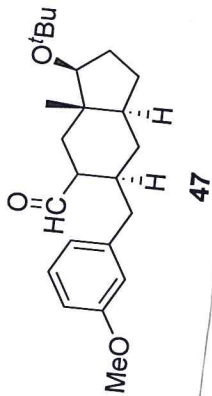


INDEX	FREQUENCY	PPM	HEIGHT	INDEX	FREQUENCY	PPM	HEIGHT
1	2941.878	9.805	8.5	40	401.155	1.337	2.4
2	2136.725	7.121	3.0	41	394.562	1.315	2.0
3	2129.308	7.097	5.1	42	385.222	1.284	4.4
4	2121.067	7.069	3.2	43	377.530	1.258	4.1
5	1999.374	6.664	8.8	44	373.959	1.246	4.3
6	1997.451	6.657	8.2	45	371.212	1.237	4.5
7	1991.132	6.636	8.4	46	364.345	1.214	7.0
8	1989.484	6.631	8.7	47	359.949	1.200	5.5
9	1985.364	6.617	7.2	48	353.631	1.179	3.7
10	1108.514	3.694	39.2	49	352.807	1.176	3.8
11	999.182	3.330	2.5	50	347.313	1.158	1.5
12	992.314	3.307	3.8	51	345.665	1.152	1.6
13	983.524	3.278	2.2	52	330.282	1.101	4.8
14	893.971	2.979	1.7	53	323.414	1.078	4.3
15	885.730	2.952	2.1	54	311.876	1.039	100.0
16	880.511	2.935	3.2	55	157.768	0.526	29.5
17	872.544	2.908	3.2				
18	850.843	2.836	3.1				
19	843.151	2.810	3.3				
20	837.382	2.791	1.8				
21	829.691	2.765	1.8				
22	682.450	2.274	3.6				
23	664.320	2.214	3.9				
24	650.859	2.169	4.3				
25	589.326	1.964	1.9				
26	587.952	1.960	2.8				
27	548.395	1.828	1.6				
28	544.824	1.816	2.0				
29	538.781	1.796	2.0				
30	534.660	1.782	2.4				
31	530.540	1.768	2.4				
32	522.573	1.742	2.5				
33	511.585	1.705	1.9				
34	440.437	1.468	5.4				
35	435.767	1.452	6.1				
36	431.921	1.440	6.1				
37	419.835	1.399	4.5				
38	411.319	1.371	3.0				
39	408.022	1.360	3.0				

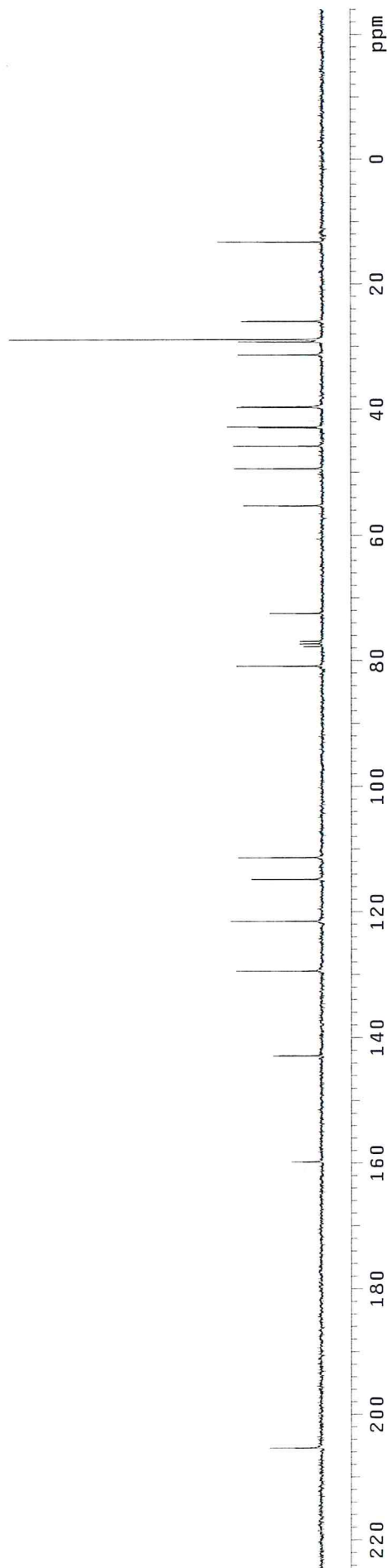




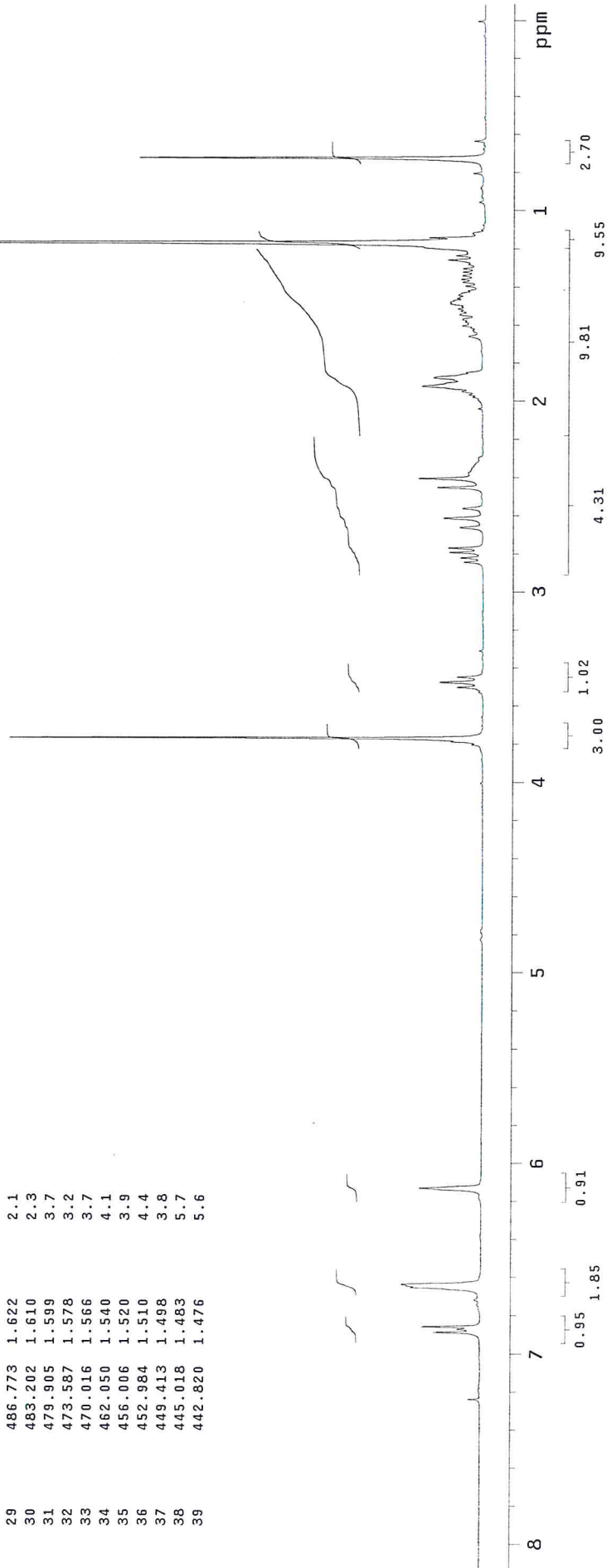
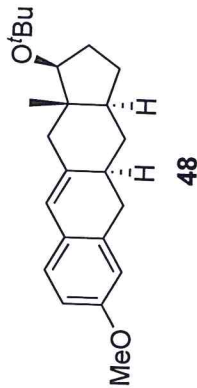
INDEX	FREQUENCY	PPM	HEIGHT
1	15492.215	205.339	8.4
2	12050.905	159.727	4.9
3	10774.012	142.802	7.8
4	9760.515	129.369	13.8
5	9161.578	121.431	14.7
6	8658.838	114.767	11.4
7	8395.443	111.276	13.5
8	6095.892	80.797	13.8
9	5858.836	77.655	3.1
10	5826.771	77.230	3.6
11	5794.706	76.805	3.6
12	5460.309	72.373	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



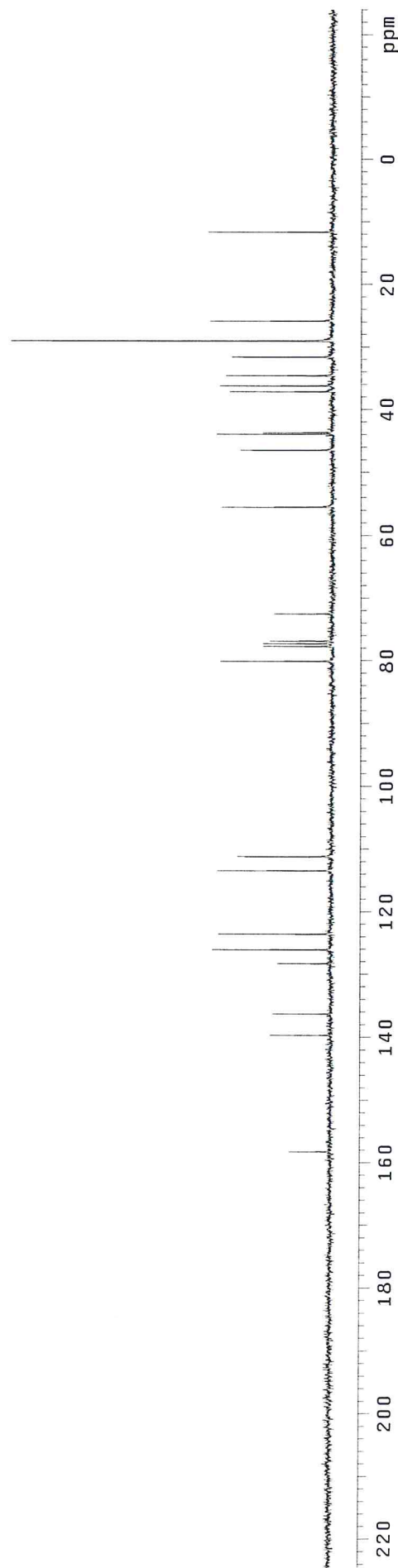
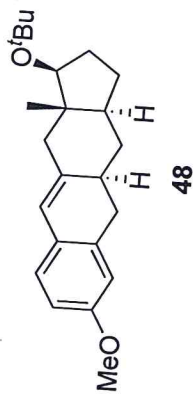
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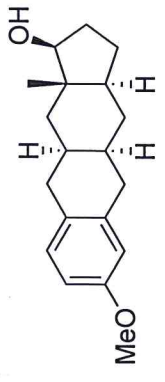
INDEX	FREQUENCY	PPM	HEIGHT	INDEX	FREQUENCY	PPM	HEIGHT
1	2171.248	7.236	2.0	40	439.799	1.466	5.2
2	2066.037	6.886	7.7	41	436.502	1.455	4.6
3	2061.092	6.869	3.9	42	434.305	1.447	4.2
4	2056.972	6.855	9.5	43	431.283	1.437	4.3
5	1995.988	6.652	11.4	44	424.141	1.414	2.8
6	1990.769	6.635	12.8	45	416.998	1.390	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				



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

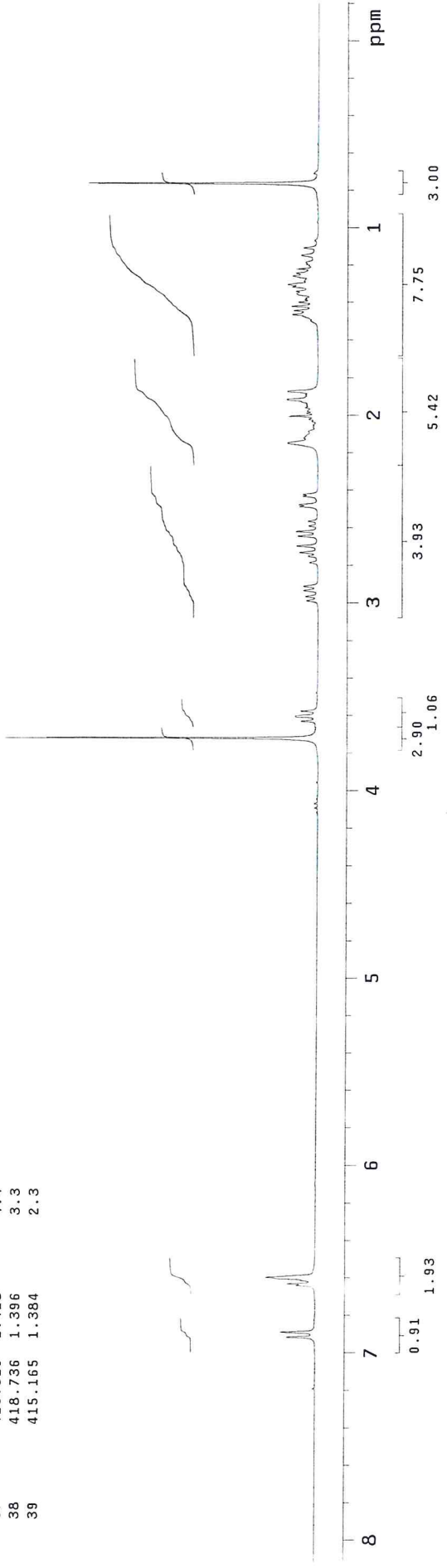


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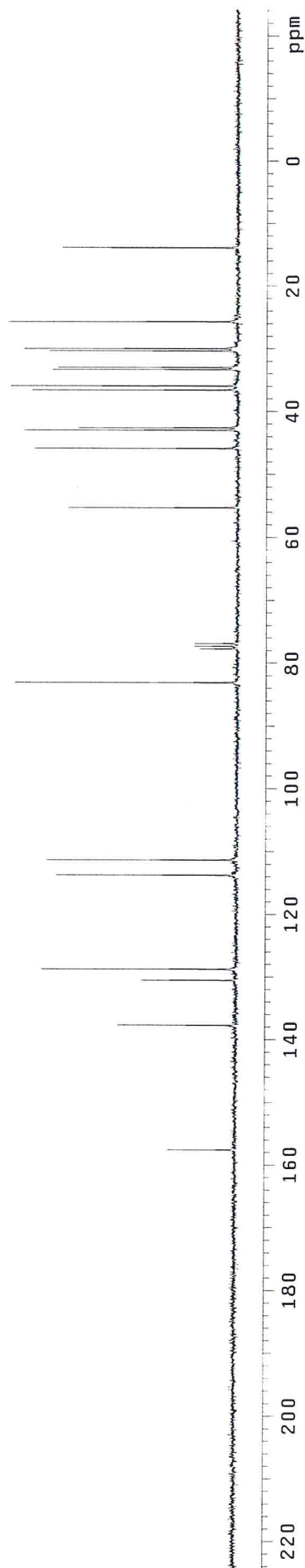
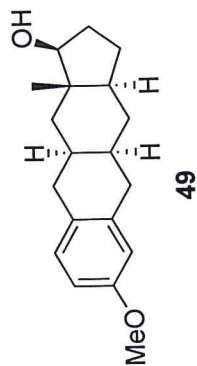


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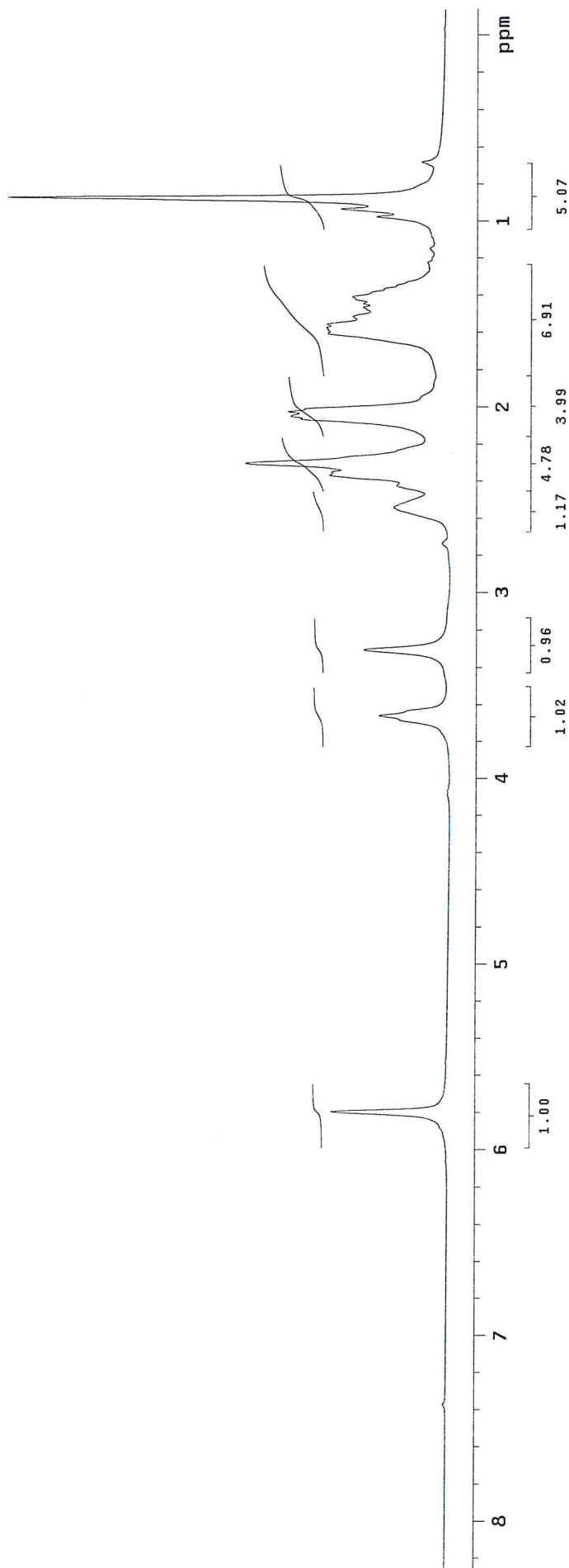
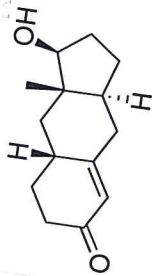
INDEX	FREQUENCY	PPM	HEIGHT	INDEX	FREQUENCY	PPM	HEIGHT
1	2075.191	6.916	4.7	40	412.418	1.375	2.2
2	2067.225	6.890	5.7	41	404.726	1.349	3.6
3	1992.231	6.640	3.2	42	401.429	1.338	3.7
4	1989.759	6.631	4.6	43	394.287	1.314	4.3
5	1979.595	6.598	8.1	44	390.441	1.301	5.0
6	1115.930	3.719	50.0	45	384.947	1.283	2.4
7	1088.735	3.629	2.8	46	376.706	1.255	4.2
8	1079.944	3.599	3.7	47	372.586	1.242	3.7
9	1072.253	3.574	2.8	48	371.762	1.239	3.6
10	895.619	2.985	1.9	49	365.443	1.218	3.7
11	889.026	2.963	2.0	50	358.301	1.194	2.1
12	879.412	2.931	2.4	51	357.477	1.191	2.0
13	872.819	2.909	2.4	52	354.730	1.182	2.1
14	818.428	2.728	3.0	53	343.193	1.144	2.9
15	808.264	2.694	3.6	54	331.380	1.104	2.5
16	792.606	2.642	3.3	55	227.818	0.759	36.9
17	785.189	2.617	3.7				
18	745.357	2.484	3.1				
19	742.335	2.474	3.2				
20	729.149	2.430	2.5				
21	726.128	2.420	2.5				
22	643.717	2.145	5.0				
23	635.476	2.118	2.4				
24	625.037	2.083	1.7				
25	600.863	2.003	4.8				
26	595.919	1.986	2.0				
27	592.897	1.976	1.9				
28	587.128	1.957	2.2				
29	584.107	1.947	1.9				
30	582.184	1.940	1.9				
31	581.360	1.938	2.0				
32	573.668	1.912	5.1				
33	566.526	1.888	2.2				
34	561.032	1.870	5.0				
35	438.789	1.462	4.2				
36	432.196	1.440	4.1				
37	425.329	1.418	4.4				
38	418.736	1.396	3.3				
39	415.165	1.384	2.3				



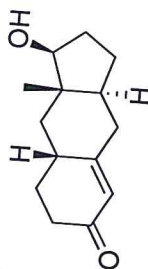
INDEX	FREQUENCY	PPM	HEIGHT
1	11887.142	157.556	10.8
2	10385.792	137.657	18.8
3	9844.115	130.477	15.1
4	9710.127	128.701	31.1
5	8577.529	113.689	28.8
6	8395.443	111.276	30.3
7	6265.381	83.043	35.4
8	5858.837	77.855	5.9
9	5826.772	77.230	6.8
10	5794.706	76.805	6.8
11	4167.384	55.236	27.0
12	3455.073	45.795	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



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

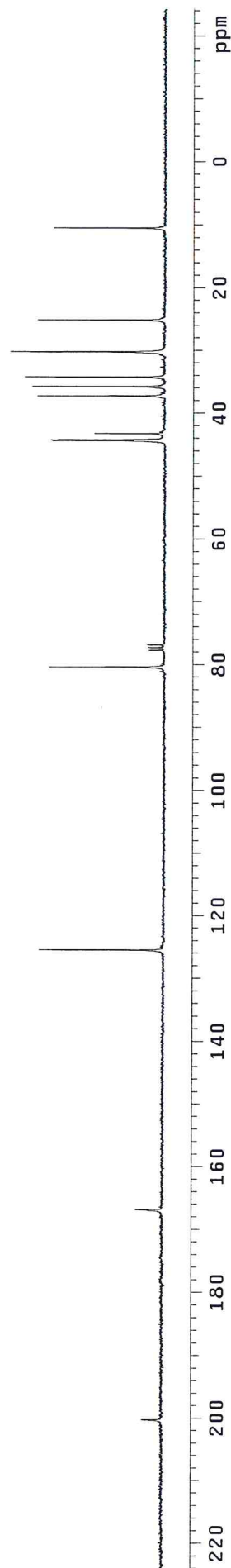


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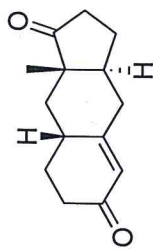
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INDEX	FREQUENCY	PPM	HEIGHT
1	15108.576	200.254	3.3
2	12588.002	166.846	4.3
3	9462.765	125.423	20.0
4	6060.392	80.326	18.4
5	5858.837	77.655	2.4
6	5825.627	77.215	2.5
7	5793.561	76.790	2.7
8	3343.990	44.322	18.0
9	3331.393	44.155	18.3
10	3256.955	43.169	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



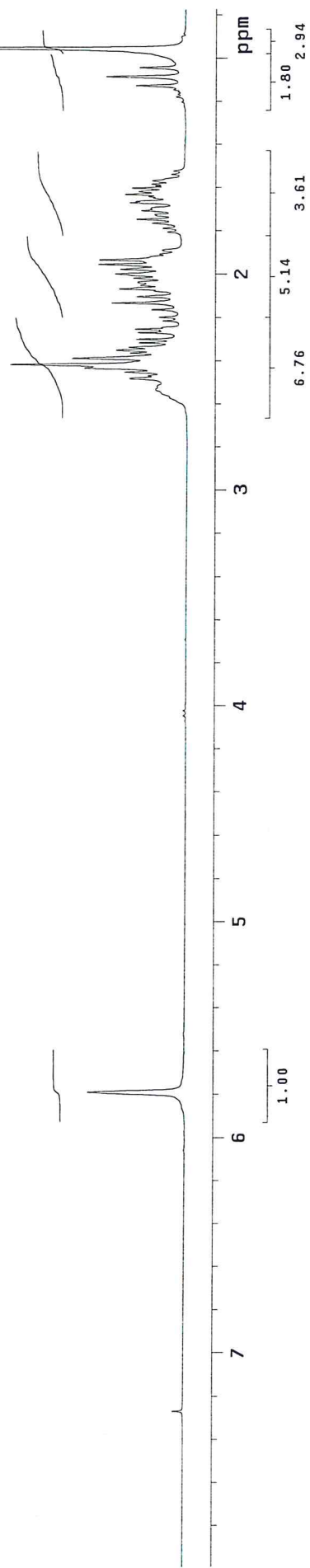


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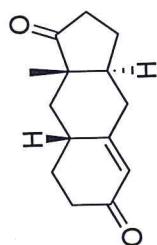
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INDEX	FREQUENCY	PPM	HEIGHT	INDEX	FREQUENCY	PPM	HEIGHT
1	1737.701	5.791	15.6	40	511.704	1.705	7.4
2	760.035	2.533	5.1	41	509.231	1.697	5.9
3	755.365	2.517	4.8	42	500.716	1.669	9.2
4	744.377	2.481	9.2	43	498.793	1.662	8.3
5	740.256	2.467	6.3	44	494.123	1.647	5.4
6	735.312	2.451	10.0	45	492.200	1.640	6.3
7	729.817	2.432	16.5	46	489.178	1.630	10.0
8	725.148	2.417	28.3	47	485.332	1.618	7.8
9	716.357	2.387	18.5	48	480.388	1.601	8.9
10	708.665	2.362	9.1	49	477.366	1.591	5.1
11	704.820	2.349	11.4	50	474.619	1.582	5.7
12	700.699	2.335	9.3	51	469.949	1.566	5.6
13	694.381	2.314	7.7	52	337.542	1.125	8.3
14	689.436	2.298	8.1	53	324.906	1.083	13.0
15	680.371	2.268	7.9	54	312.270	1.041	7.7
16	677.899	2.259	4.5	55	286.173	0.954	100.0
17	675.426	2.251	8.4				
18	673.229	2.244	4.1				
19	663.889	2.213	3.9				
20	658.944	2.196	4.5				
21	648.506	2.161	5.7				
22	639.440	2.131	12.1				
23	630.650	2.102	8.3				
24	622.684	2.075	5.3				
25	619.936	2.066	10.9				
26	614.992	2.050	7.5				
27	610.871	2.036	7.9				
28	605.103	2.017	8.6				
29	599.334	1.997	11.6				
30	592.741	1.975	10.7				
31	586.148	1.954	14.3				
32	580.105	1.933	14.1				
33	571.864	1.906	4.4				
34	566.095	1.887	4.0				
35	535.878	1.786	3.9				
36	529.010	1.763	5.7				
37	523.516	1.745	8.1				
38	518.297	1.727	5.1				
39	516.923	1.723	5.2				

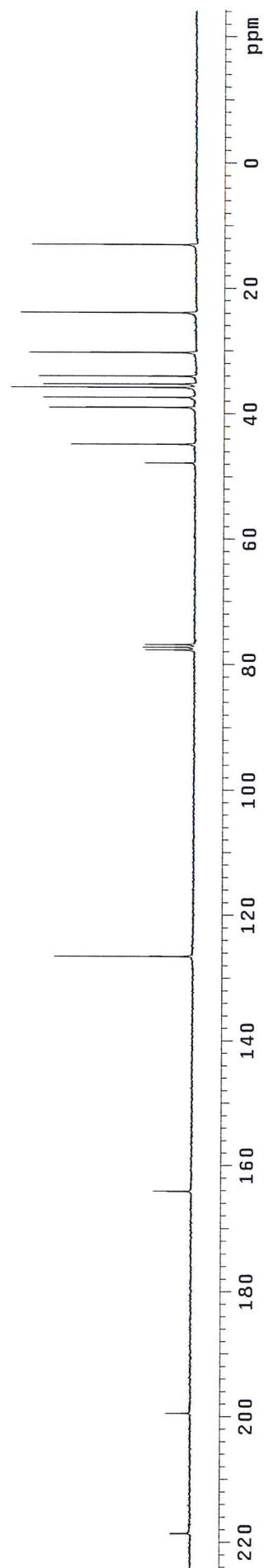


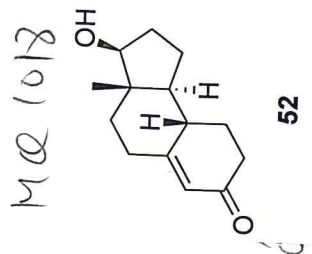
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INDEX	FREQUENCY	PPM	HEIGHT
1	16491.970	218.590	3.2
2	15046.734	199.435	4.1
3	12377.285	164.053	6.2
4	9542.928	126.485	22.3
5	5856.546	77.625	7.9
6	5824.481	77.200	8.3
7	5792.415	76.775	8.0
8	3599.367	47.707	8.1
9	3373.764	44.717	19.9
10	2934.009	38.888	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

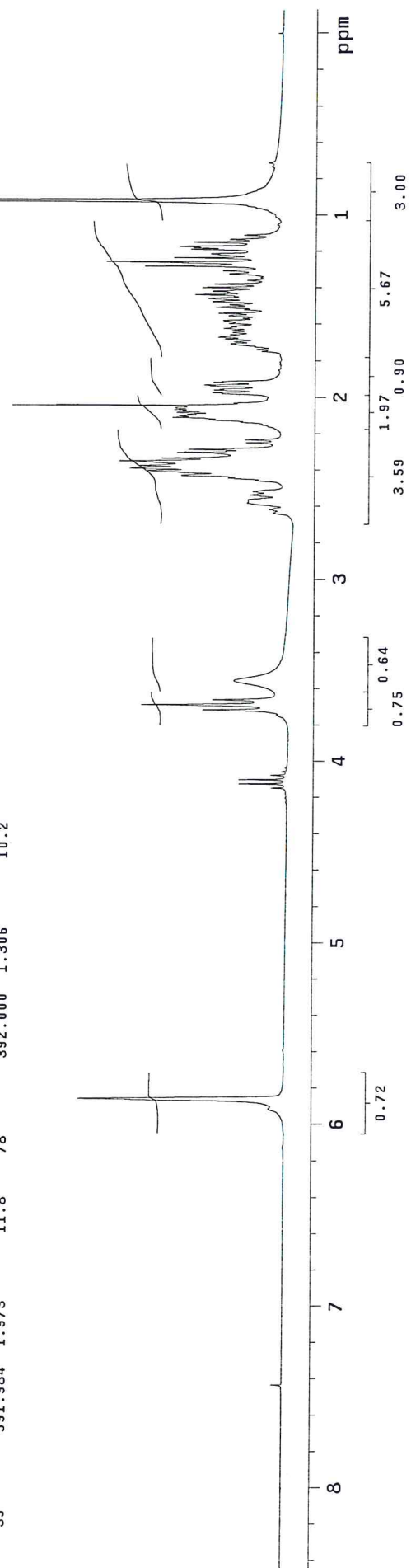


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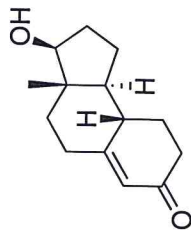
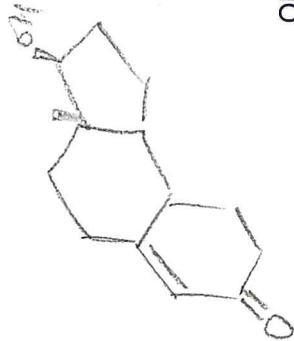


INDEX	FREQUENCY	PPM	HEIGHT	INDEX	FREQUENCY	PPM	HEIGHT	INDEX	FREQUENCY	PPM	HEIGHT
1	1758.370	5.860	32.9	40	587.863	1.959	11.5	79	384.583	1.282	22.7
2	1237.534	4.124	7.3	41	585.940	1.953	10.7	80	377.441	1.258	28.9
3	1230.392	4.101	7.3	42	580.996	1.936	12.2	81	370.299	1.234	18.1
4	1115.292	3.717	13.1	43	579.347	1.931	13.2	82	363.981	1.213	12.2
5	1106.776	3.689	23.0	44	575.227	1.917	11.6	83	356.564	1.188	15.4
6	1097.986	3.659	11.6	45	573.853	1.913	10.3	84	353.817	1.179	15.0
7	1066.670	3.555	8.2	46	524.132	1.747	4.0	85	351.894	1.173	17.2
8	774.111	2.580	6.2	47	520.836	1.736	4.8	86	344.752	1.149	14.9
9	769.991	2.566	6.0	48	516.715	1.722	5.1	87	340.082	1.133	9.2
10	760.926	2.536	5.7	49	511.771	1.706	8.9	88	332.665	1.109	6.9
11	755.157	2.517	5.2	50	508.749	1.696	8.5	89	287.613	0.959	5.0
12	737.027	2.456	4.9	51	504.079	1.680	9.9	90	276.351	0.921	200.0
13	733.181	2.444	9.3	52	501.057	1.670	10.9				
14	729.060	2.430	16.8	53	497.211	1.657	9.1				
15	721.369	2.404	22.2	54	493.366	1.644	8.7				
16	716.973	2.390	25.0	55	489.794	1.632	8.7				
17	713.128	2.377	23.5	56	486.773	1.622	10.1				
18	705.436	2.351	26.6	57	483.476	1.611	8.9				
19	700.217	2.334	19.9	58	478.532	1.595	9.3				
20	690.877	2.303	17.4	59	477.158	1.590	8.4				
21	688.679	2.295	9.7	60	473.862	1.579	10.1				
22	685.932	2.286	15.6	61	470.016	1.566	7.1				
23	684.009	2.280	8.5	62	466.170	1.554	9.3				
24	674.394	2.248	6.4	63	461.775	1.539	10.9				
25	669.450	2.231	6.5	64	456.006	1.520	6.9				
26	645.001	2.150	3.8	65	452.160	1.507	11.3				
27	640.331	2.134	7.3	66	447.765	1.492	9.1				
28	636.760	2.122	12.5	67	442.820	1.476	11.9				
29	632.914	2.109	18.2	68	437.601	1.458	12.6				
30	630.167	2.100	17.2	69	434.030	1.447	8.5				
31	627.695	2.092	15.9	70	431.558	1.438	14.6				
32	624.673	2.082	17.5	71	428.261	1.427	9.6				
33	621.652	2.072	16.7	72	425.789	1.419	11.8				
34	619.729	2.065	17.9	73	419.471	1.398	13.5				
35	616.707	2.055	17.8	74	413.702	1.379	11.6				
36	613.136	2.043	43.9	75	407.384	1.358	6.3				
37	609.015	2.030	8.4	76	402.988	1.343	4.2				
38	593.632	1.978	10.3	77	396.945	1.323	9.2				
39	591.984	1.973	11.8	78	392.000	1.306	10.2				

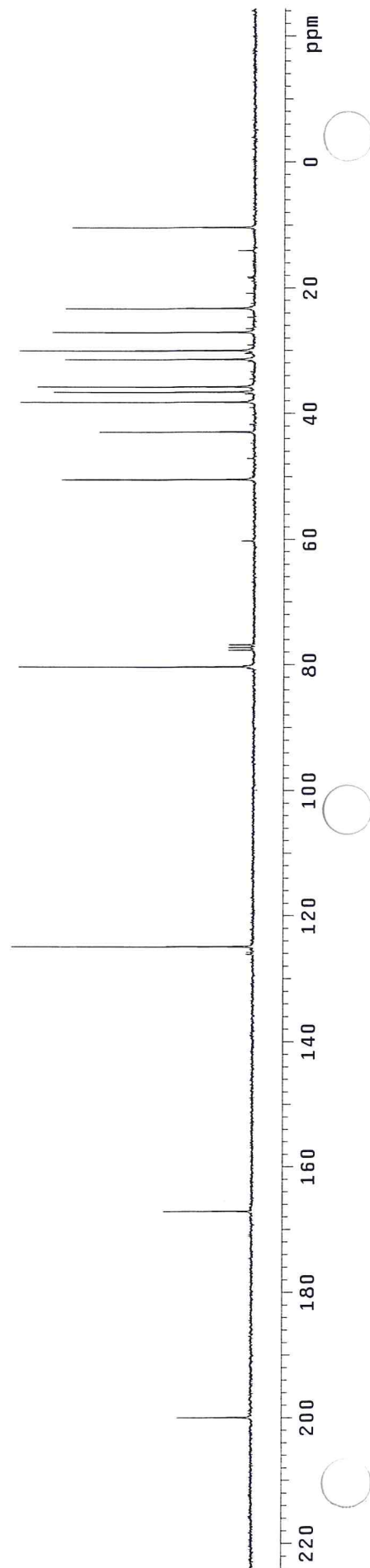


1018

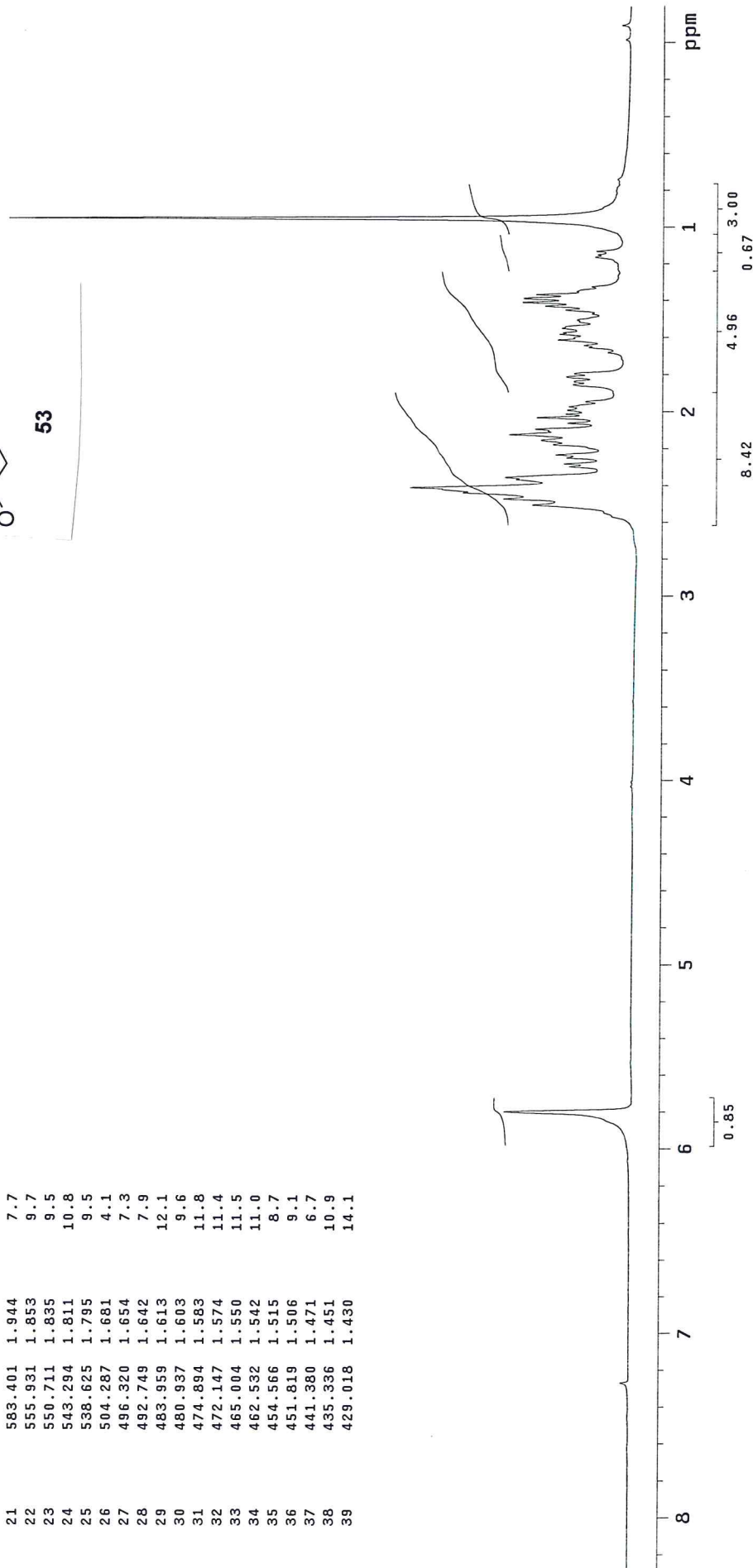
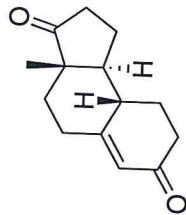
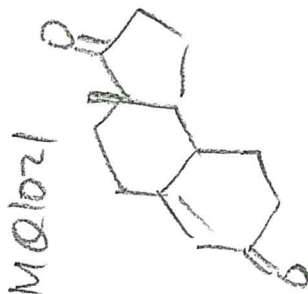
INDEX	FREQUENCY	PPM	HEIGHT
1	15085.672	199.951	12.0
2	12605.180	167.073	14.4
3	9419.248	124.846	38.9
4	6058.102	80.296	37.9
5	3802.068	50.394	31.0
6	3234.051	42.865	25.0
7	2877.896	38.145	37.7
8	2757.650	36.551	32.3
9	2694.664	35.716	34.9
10	2365.994	31.360	30.5
11	2259.490	29.948	37.8
12	2039.613	27.034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



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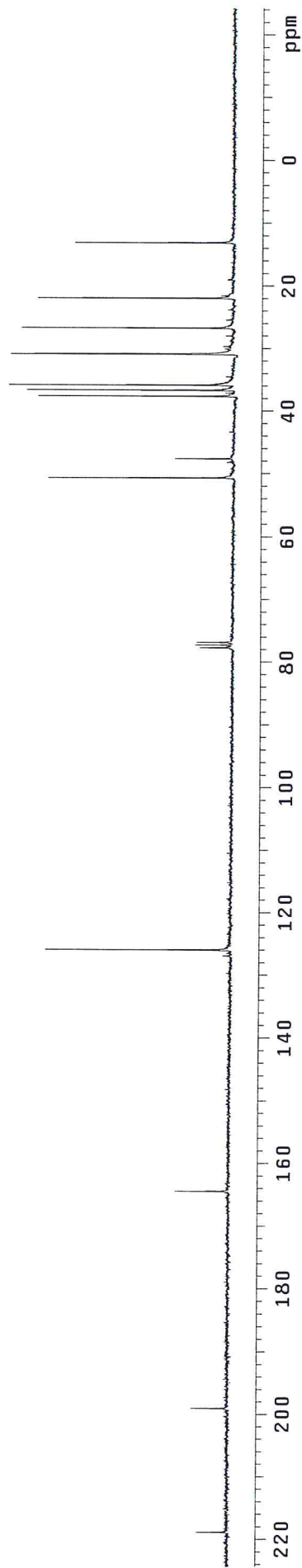
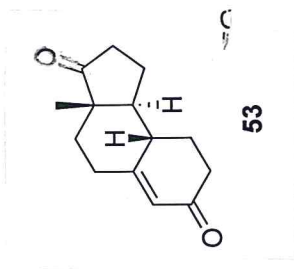


INDEX	FREQUENCY	PPM	HEIGHT	INDEX	FREQUENCY	PPM	HEIGHT
1	1740.448	5.801	20.2	40	422.975	1.410	17.7
2	751.794	2.506	16.1	41	416.657	1.389	17.6
3	742.179	2.474	20.8	42	410.339	1.368	15.6
4	732.290	2.441	27.2	43	405.119	1.350	9.2
5	724.049	2.413	35.6	44	397.427	1.325	6.7
6	710.588	2.368	18.7	45	348.805	1.162	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				



401021

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





1825

DEPT-135

HEIGHT

PPM

FREQUENCY

INDEX

HEIGHT

PPM

FREQUENCY

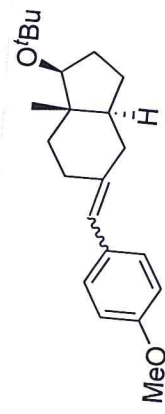
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HEIGHT

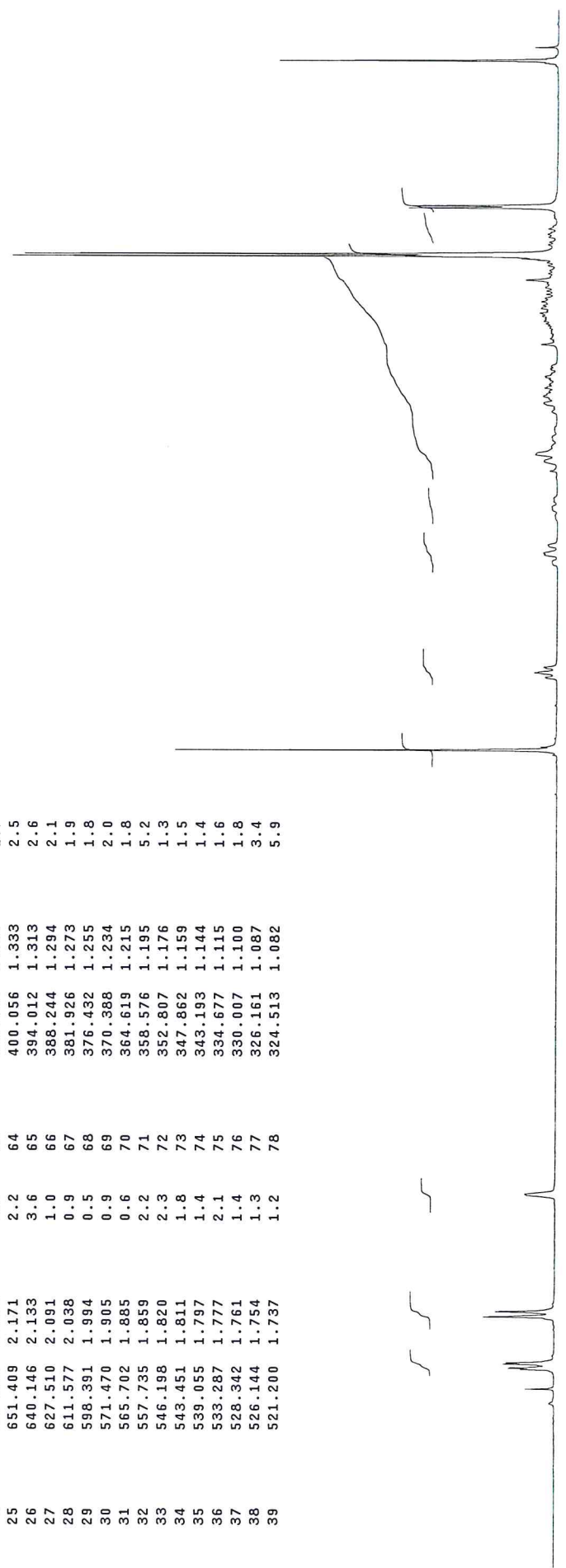
PPM

FREQUENCY

INDEX



54



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11.05

0.42 0.85

3.00

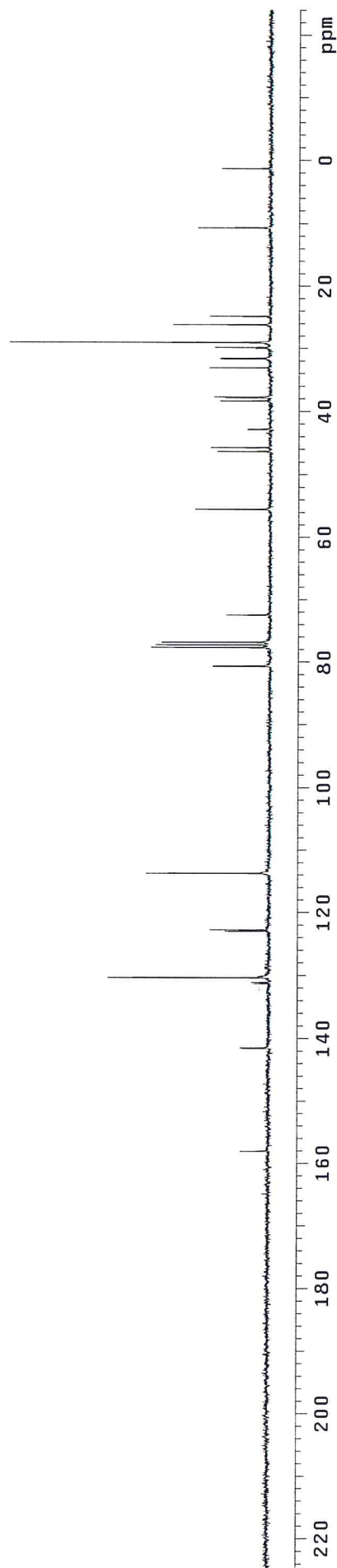
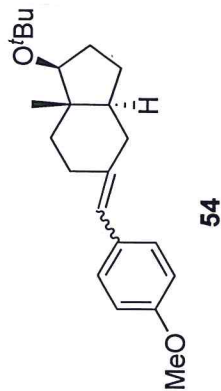
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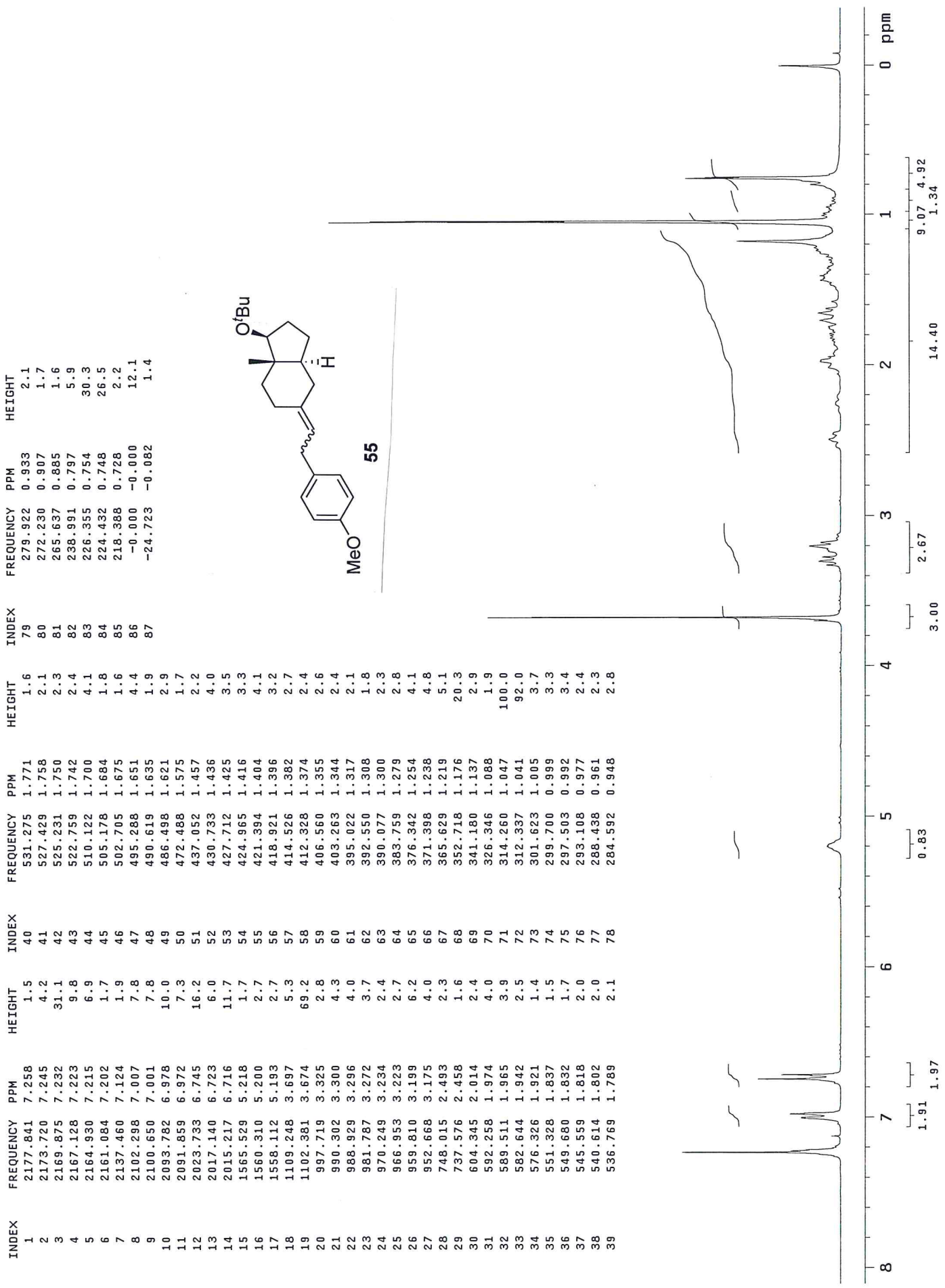


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INDEX	FREQUENCY	PPM	HEIGHT
1	11919.207	157.981	4.5
2	10678.961	141.543	4.2
3	10670.944	141.436	4.6
4	9902.519	131.251	2.4
5	9887.631	131.054	2.8
6	9831.516	130.310	25.9
7	9273.807	122.918	7.1
8	9257.774	122.706	9.6
9	8576.383	113.674	19.9
10	6083.294	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

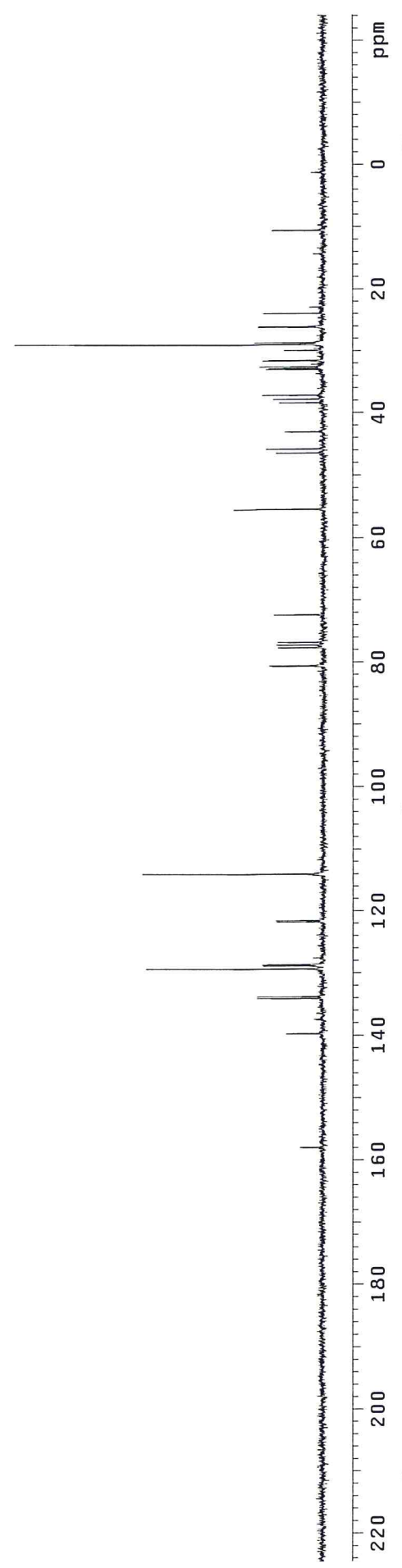
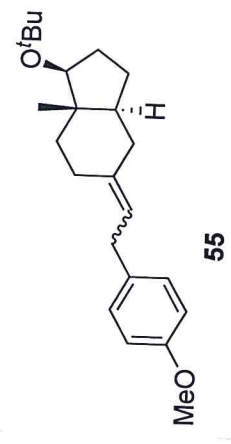


1145



1145

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

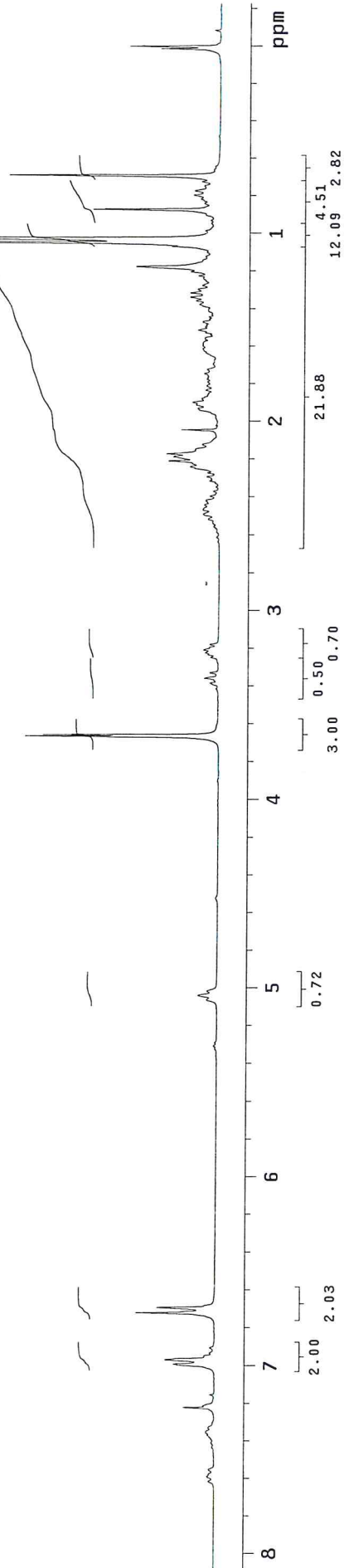
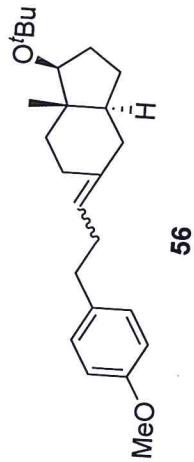


## STANDARD 1H OBSERVE

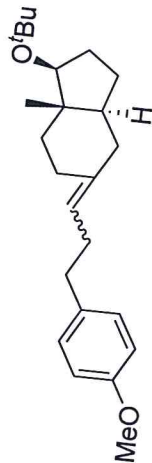
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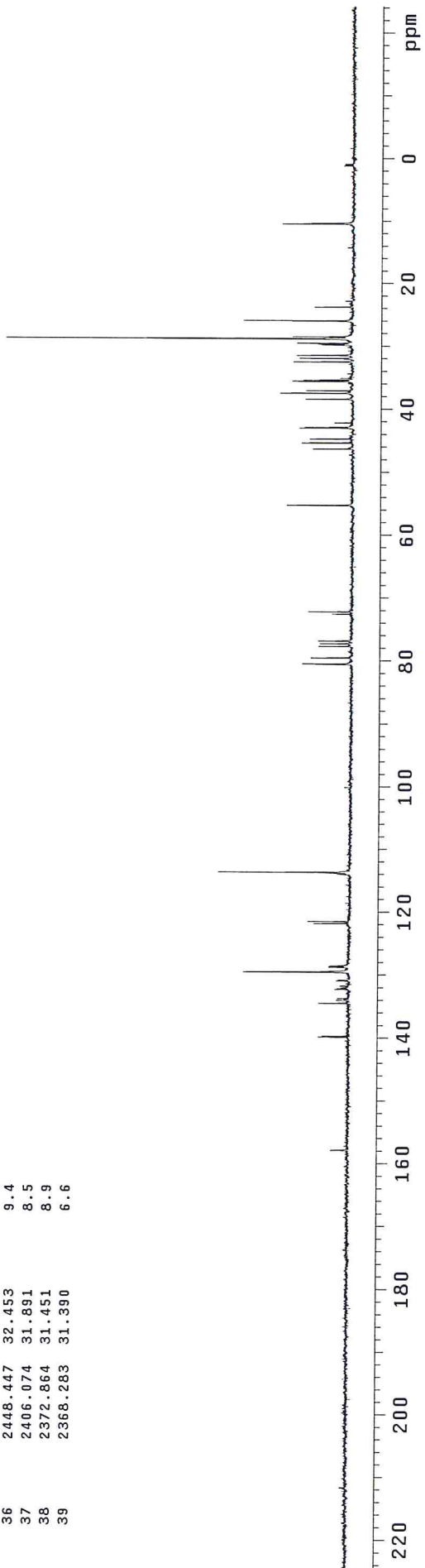
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INDEX	FREQUENCY	PPM	HEIGHT	INDEX	FREQUENCY	PPM	HEIGHT
1	11908.901	157.845	2.8	40	2248.037	29.796	4.9
2	10547.264	139.797	4.9	41	2237.731	29.660	5.5
3	10533.522	139.615	4.2	42	2225.134	29.493	8.8
4	10143.010	134.439	4.8	43	2173.600	28.810	55.3
5	9773.112	129.536	16.9	44	2170.164	28.764	32.9
6	9769.677	129.491	16.4	45	2147.260	28.461	9.6
7	9761.660	129.384	4.4	46	1959.448	25.971	9.7
8	9713.562	128.747	3.2	47	1954.868	25.910	17.4
9	9703.255	128.610	3.2	48	1789.960	23.725	6.1
10	9694.094	128.489	2.9	49	783.333	10.383	11.4
11	9187.918	121.780	5.7	50	774.172	10.261	6.7
12	9163.869	121.461	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	2664.888	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				

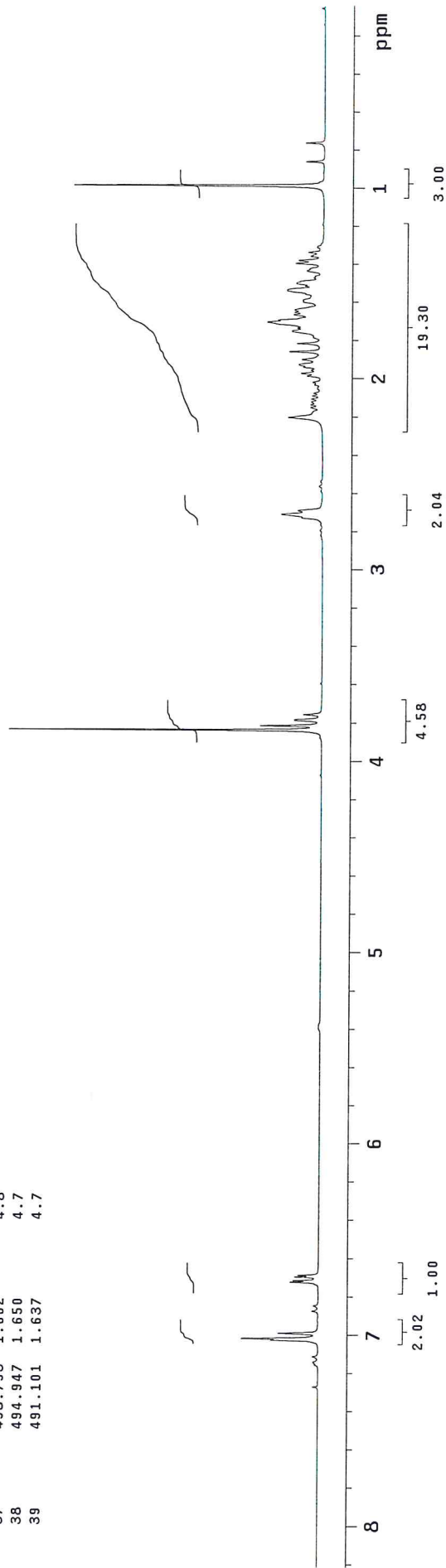
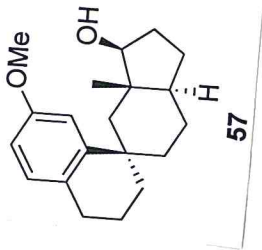


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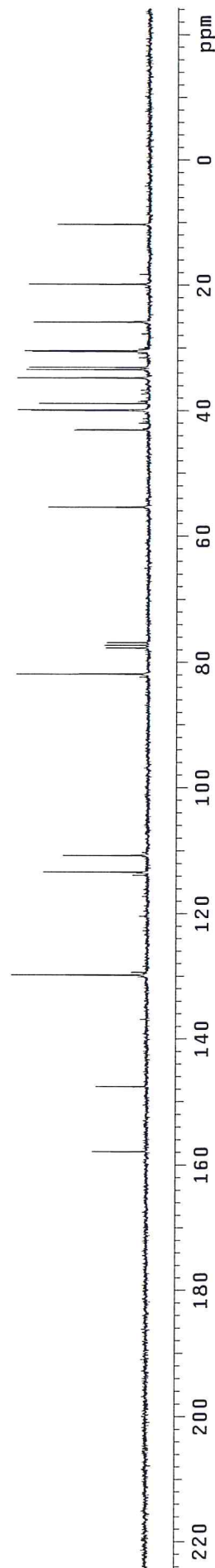
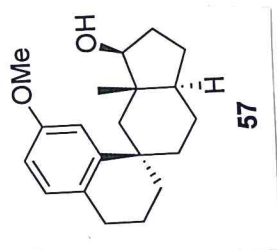
INDEX	FREQUENCY	PPM	HEIGHT	INDEX	FREQUENCY	PPM	HEIGHT
1	2107.725	7.025	7.6	40	478.190	1.594	3.4
2	2105.527	7.017	12.3	41	475.718	1.585	3.4
3	2097.011	6.989	6.4	42	466.103	1.553	3.0
4	2017.073	6.723	4.6	43	460.884	1.536	5.9
5	2014.326	6.713	4.1	44	453.742	1.512	3.1
6	2008.557	6.694	3.8	45	449.621	1.498	4.4
7	2006.085	6.686	3.4	46	440.556	1.468	1.7
8	1150.112	3.833	50.0	47	438.083	1.460	1.5
9	1143.794	3.812	9.9	48	429.293	1.431	2.8
10	1134.179	3.780	4.4	49	426.821	1.423	2.4
11	1126.488	3.754	3.0	50	417.755	1.392	4.6
12	817.448	2.724	3.4	51	413.086	1.377	4.1
13	812.228	2.707	6.6	52	406.493	1.355	2.1
14	806.185	2.687	4.0	53	400.449	1.335	2.5
15	660.043	2.200	5.6	54	294.963	0.983	39.9
16	644.385	2.148	2.1	55	257.329	0.858	3.1
17	640.264	2.134	2.0	56	227.661	0.759	3.0
18	635.595	2.118	1.9				
19	631.199	2.104	1.9				
20	626.529	2.088	1.8				
21	622.409	2.074	1.6				
22	608.948	2.030	1.5				
23	605.103	2.017	1.7				
24	595.213	1.984	2.7				
25	591.093	1.970	3.5				
26	586.148	1.954	2.0				
27	581.203	1.937	3.3				
28	577.083	1.923	4.0				
29	569.117	1.897	3.5				
30	556.755	1.856	5.5				
31	543.844	1.813	4.3				
32	534.229	1.780	1.7				
33	524.340	1.748	5.1				
34	519.670	1.732	4.2				
35	510.330	1.701	9.0				
36	507.034	1.690	7.3				
37	498.793	1.662	4.8				
38	494.947	1.650	4.7				
39	491.101	1.637	4.7				





1152.

INDEX	FREQUENCY	PPM	HEIGHT
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





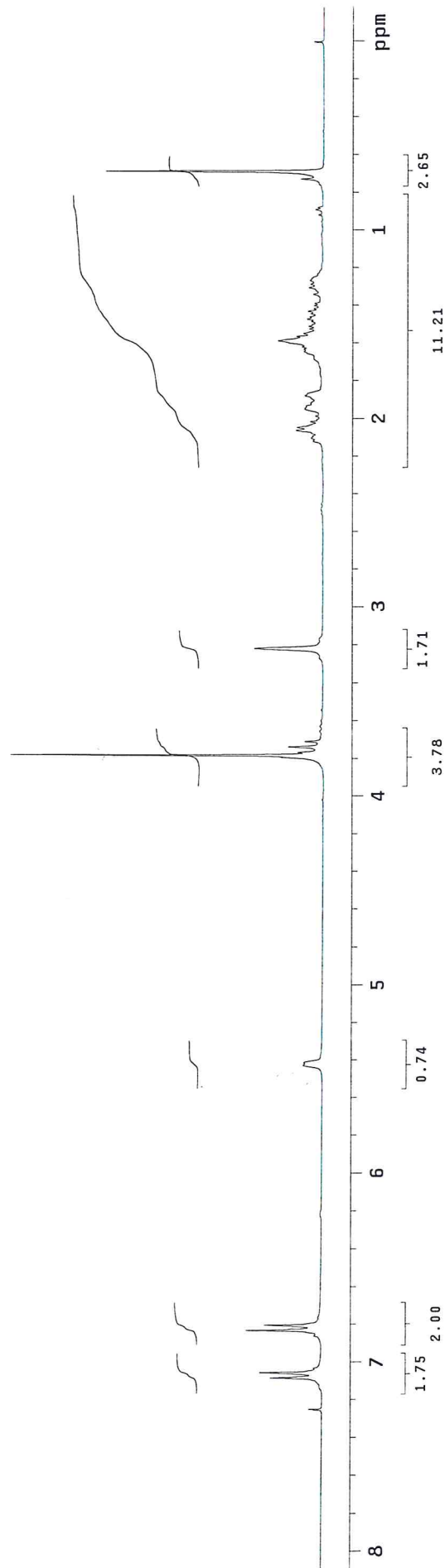
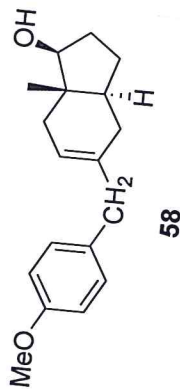
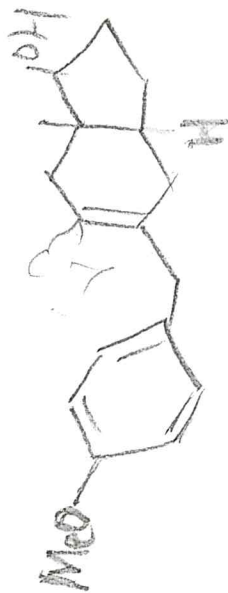
## STANDARD 1H OBSERVE

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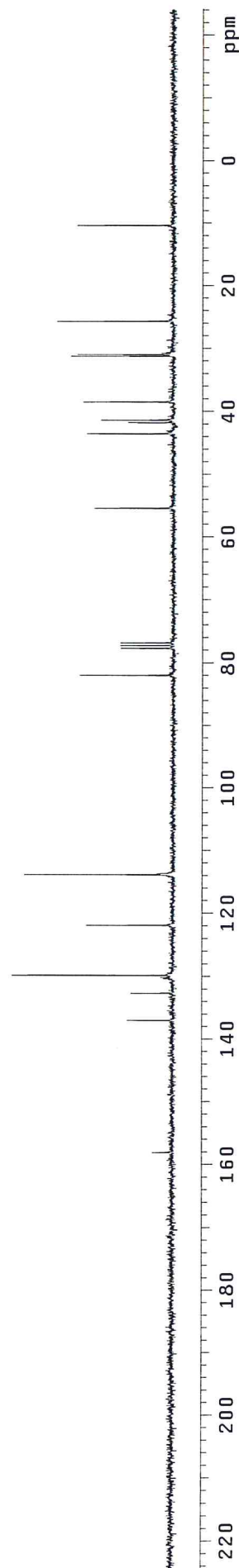
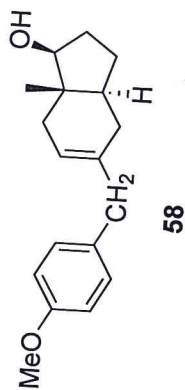
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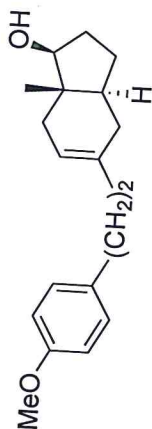
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INDEX	FREQUENCY	PPM	HEIGHT
1	11924.933	158.057	3.2
2	10334.257	136.974	7.3
3	10004.441	132.602	6.7
4	9791.435	129.779	25.7
5	9193.643	121.856	13.9
6	8587.835	113.826	23.8
7	6180.636	81.920	15.0
8	5857.691	77.640	8.4
9	5825.626	77.215	8.5
10	5793.560	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

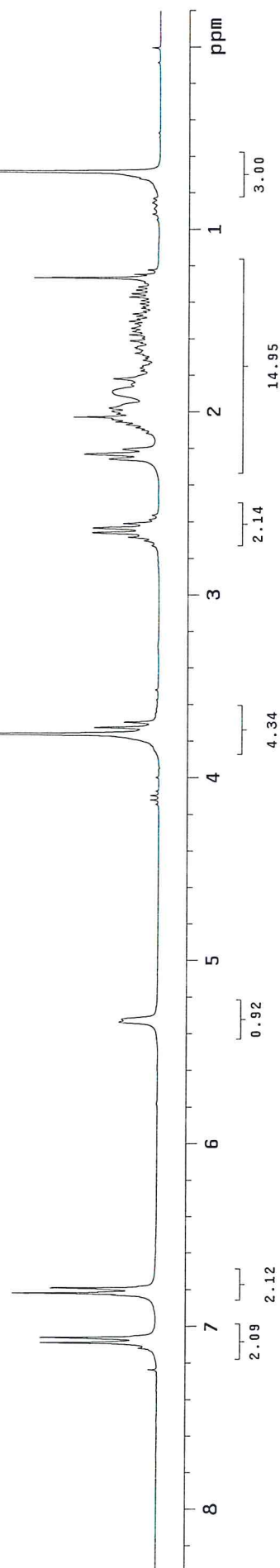


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INDEX	FREQUENCY	PPM	HEIGHT	INDEX	FREQUENCY	PPM	HEIGHT
1	2135.537	7.117	2.9	40	495.014	1.650	3.9
2	2127.021	7.089	18.7	41	493.091	1.643	4.1
3	2118.505	7.061	18.7	42	491.443	1.638	3.6
4	2049.005	6.829	7.2	43	486.223	1.620	3.1
5	2045.984	6.819	23.2	44	482.652	1.609	4.8
6	2037.468	6.790	17.1	45	477.982	1.593	2.9
7	1600.691	5.335	6.3	46	472.488	1.575	4.9
8	1596.571	5.321	5.8	47	467.269	1.557	4.5
9	1127.654	3.758	100.0	48	465.071	1.550	3.9
10	1117.215	3.723	10.4	49	462.050	1.540	4.6
11	1108.424	3.694	5.6	50	454.083	1.513	4.1
12	804.329	2.681	5.0	51	450.237	1.501	5.1
13	801.856	2.672	3.4	52	446.666	1.489	3.7
14	796.912	2.656	10.8	53	441.722	1.472	3.8
15	789.495	2.631	10.7	54	438.150	1.460	4.5
16	782.078	2.607	5.8	55	433.755	1.446	2.8
17	676.867	2.256	8.1	56	428.811	1.429	3.1
18	668.900	2.229	12.1	57	425.789	1.419	2.8
19	660.934	2.203	6.0	58	421.119	1.404	3.2
20	629.069	2.097	3.0	59	415.899	1.386	3.1
21	625.223	2.084	3.9	60	410.405	1.368	5.0
22	620.278	2.067	5.4	61	404.911	1.349	4.6
23	615.883	2.053	7.2	62	399.143	1.330	3.9
24	612.037	2.040	7.7	63	393.649	1.312	3.5
25	610.389	2.034	7.7	64	378.540	1.262	20.2
26	607.916	2.026	13.8	65	373.046	1.243	4.2
27	602.972	2.010	7.0	66	215.916	0.720	3.4
28	598.302	1.994	7.7	67	203.829	0.679	64.0
29	593.083	1.977	8.1				
30	565.887	1.886	7.6				
31	555.174	1.850	4.6				
32	545.010	1.816	7.5				
33	531.824	1.772	3.1				
34	527.154	1.757	3.2				
35	523.583	1.745	2.8				
36	514.518	1.715	2.8				
37	506.277	1.687	2.8				
38	502.705	1.675	4.1				
39	500.783	1.669	3.1				



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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

