

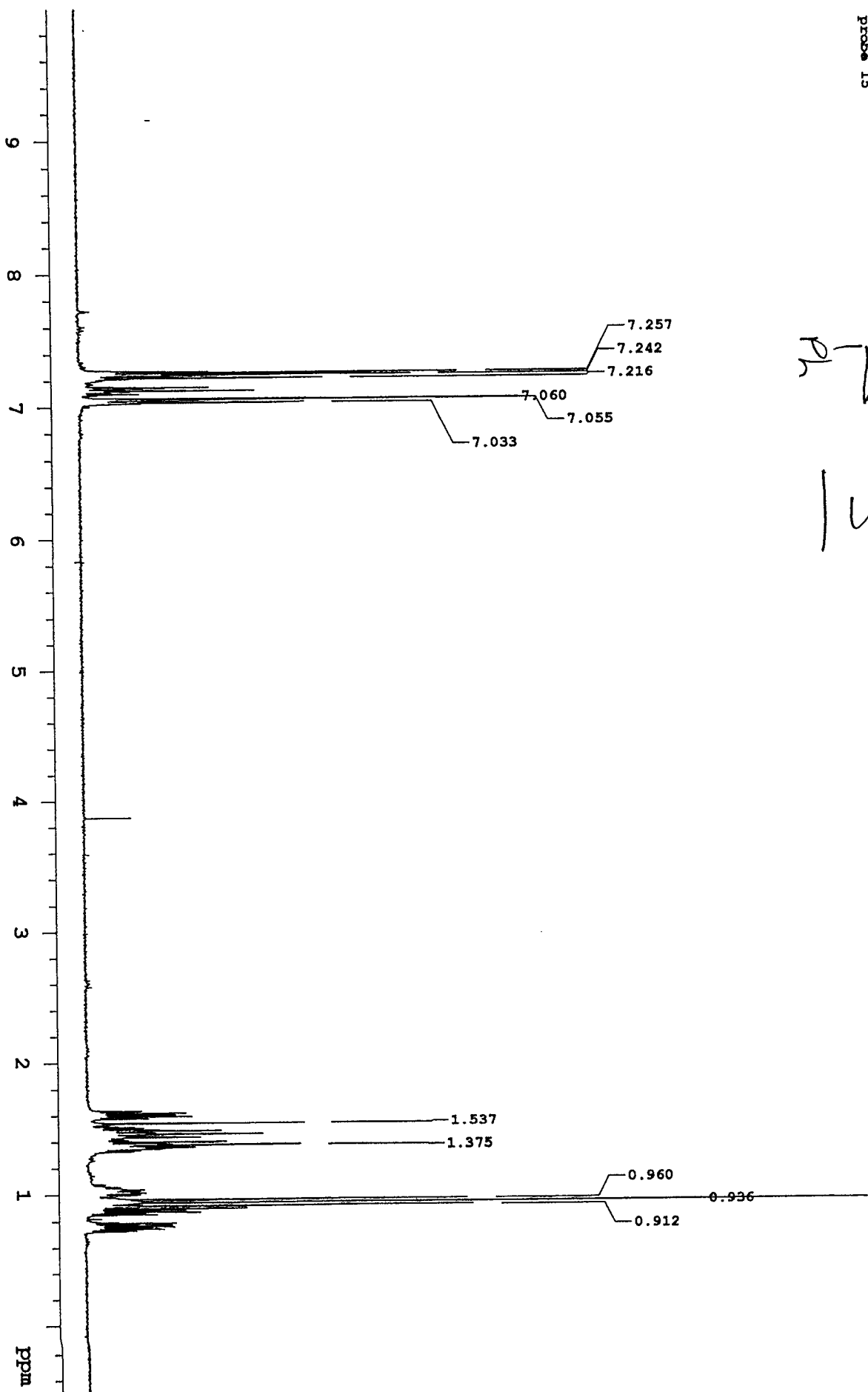
**Table S1.** Results from CYP2B1 hydroxylation of probe **2-4** and **6**.

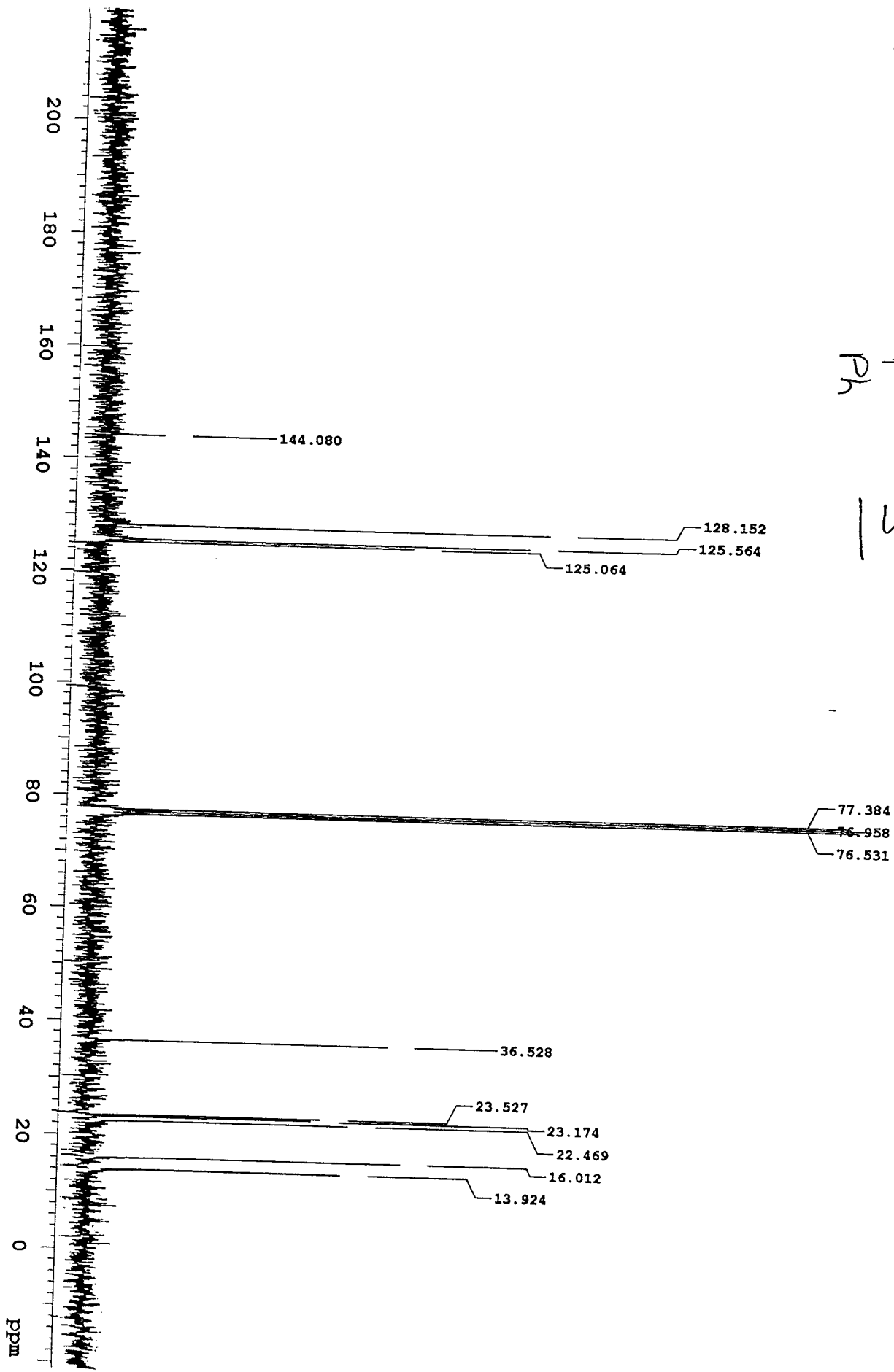
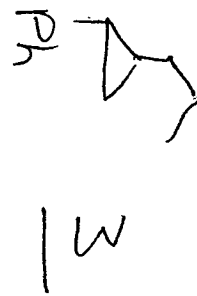
Substrate	Yield of products in nmol				C/A <sup>a</sup>	% Conv. <sup>b</sup>	% Rec. <sup>c</sup>	Turnover <sup>d</sup>
	Acyclic Alcohol	Cyclic Alcohol	Ketone	Phenol				
<b>2</b>	11.8	242.9	11.9	14.2	21.6	15.7	58.3	485
<b>2</b>	10.4	249.0	12.0	14.4	25.1	16.1	55.1	496
<b>2</b>	7.8	199.1	7.6	14.3	26.5	12.9	57.2	394
<b>2</b>	9.3	210.8	7.9	15.5	23.5	13.7	52.7	419
<b>2</b>	9.6	241.0	9.1	16.8	26.3	20.2	61.2	476
<b>2</b>	10.1	260.7	10.6	19.4	26.8	22.0	65.5	519
<b>2</b>	8.6	214.5	6.9	15.4	25.8	17.9	76.3	420
<b>2</b>	8.6	209.0	8.7	16.3	25.4	17.7	69.3	419
<b>3</b>	2.1	105.5	8.7	14.2	54.5	8.4	68.0	218
<b>3</b>	2.9	129.4	6.6	17.4	46.9	10.0	66.8	260
<b>3</b>	3.0	157.2	8.0	20.4	55.1	12.1	72.2	314
<b>3</b>	3.3	158.9	5.0	25.0	49.7	12.3	70.1	320
<b>4</b>	<0.5	87.9	NA <sup>e</sup>	8.2	>100.0	6.7	84.4	160
<b>4</b>	<0.5	149.8	NA	19.5	>100.0	11.8	74.0	282
<b>4</b>	<0.5	117.4	NA	12.8	>100.0	9.0	79.5	217
<b>4</b>	<0.5	151.5	NA	20.3	>100.0	11.8	78.3	286
<b>6</b>	2.6	69.9	23.4	NA	35.9	7.6	70.4	160
<b>6</b>	3.8	84.3	26.2	NA	29.1	9.1	66.7	190
<b>6</b>	4.1	87.3	26.9	NA	27.9	9.4	74.1	197
<b>6</b>	3.1	73.0	20.6	NA	29.9	7.7	77.8	161

<sup>a</sup>Ratio of cyclic to acyclic products. <sup>b</sup>Percent conversion of substrate. <sup>c</sup>Percent recovery of substrate. <sup>d</sup>Number of enzyme turnovers. <sup>e</sup>Not applicable.

Proton Spectra  
pht\_g1\_220409Fab271998.fid  
probe 15

Handwritten notes: *or* and *M*

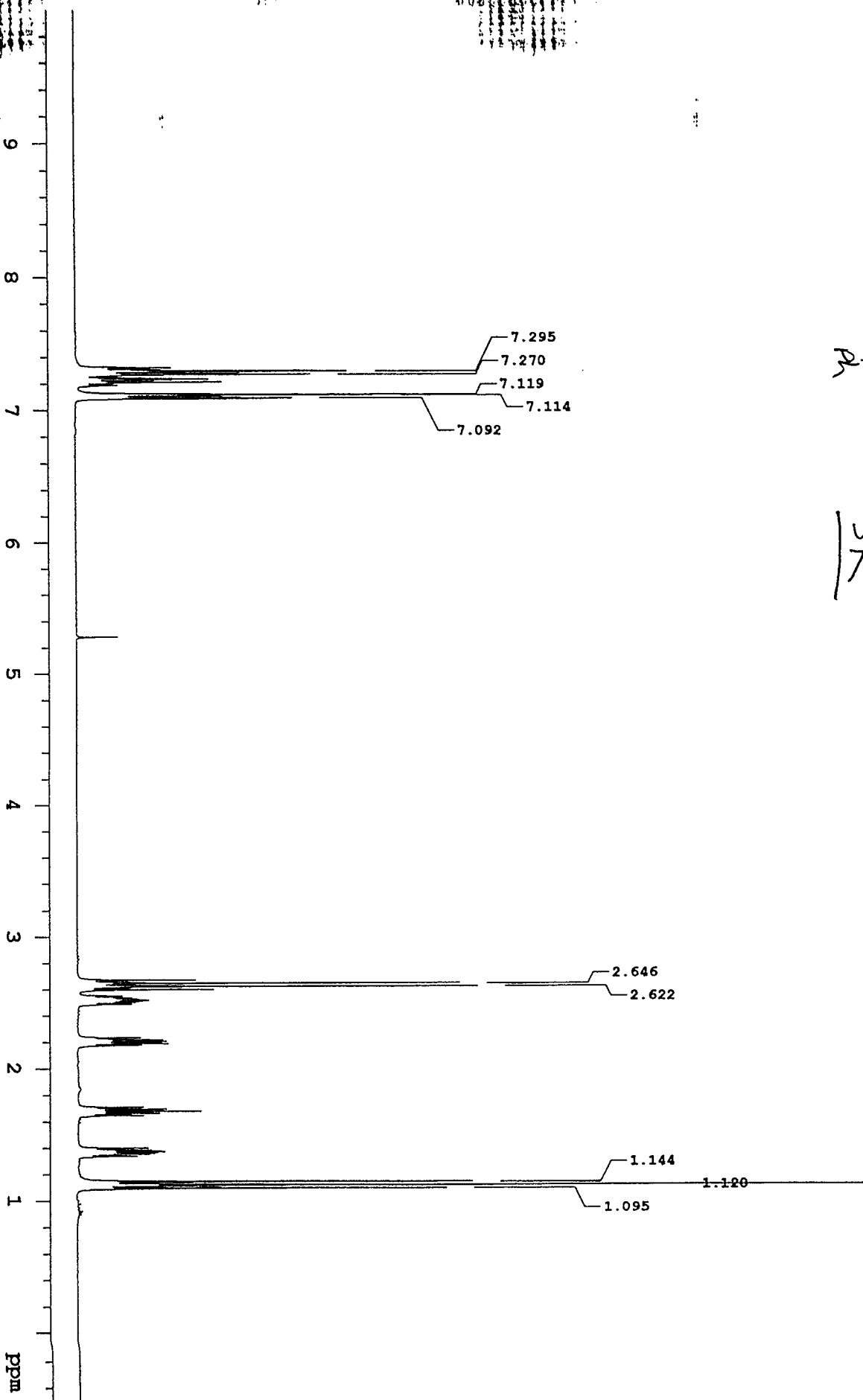




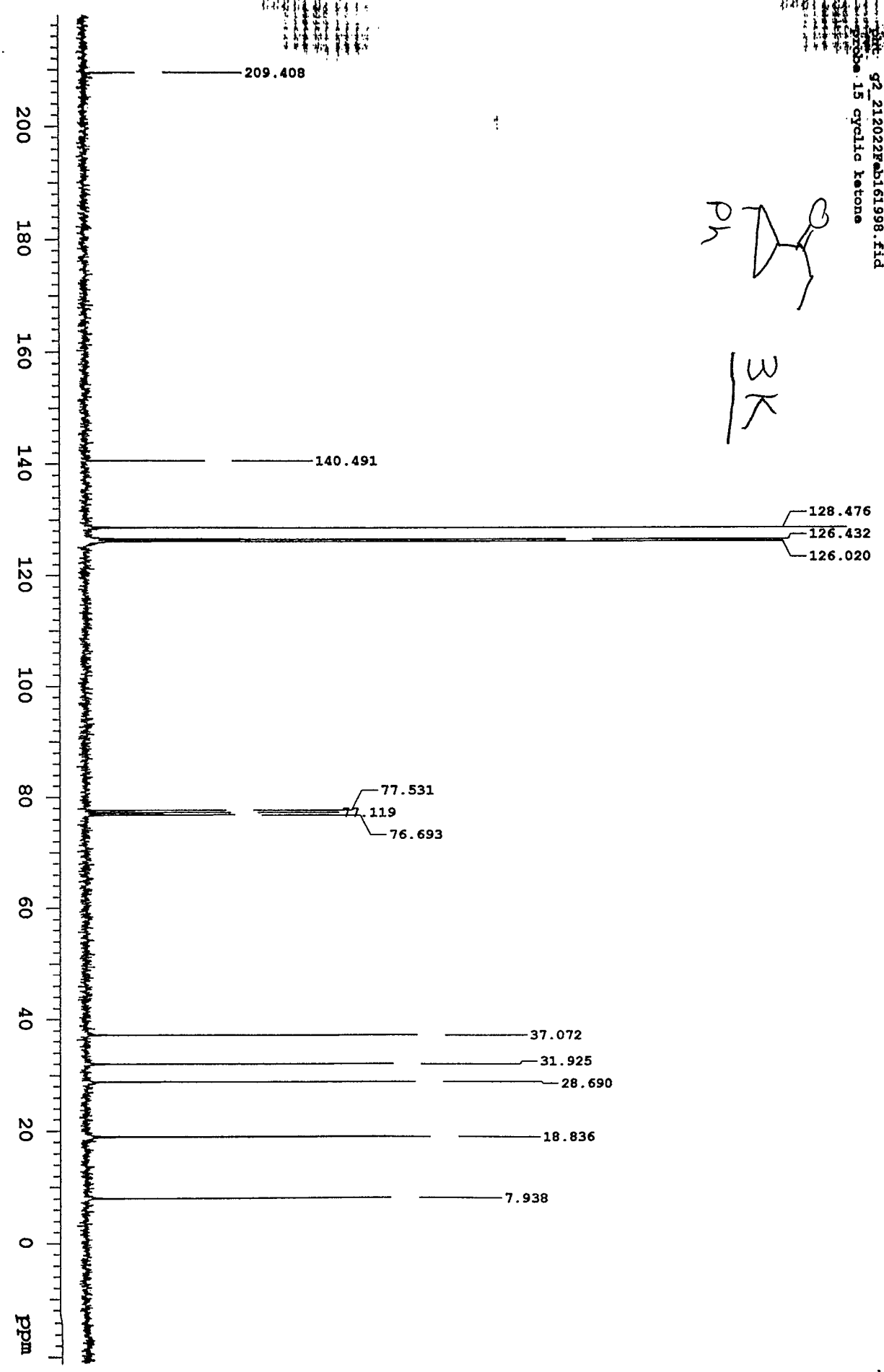
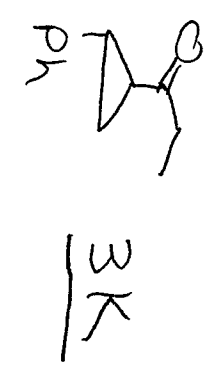
Proton Spectra  
pht\_g1\_211716Feb161998.fid  
probe 15 cyclic ketone



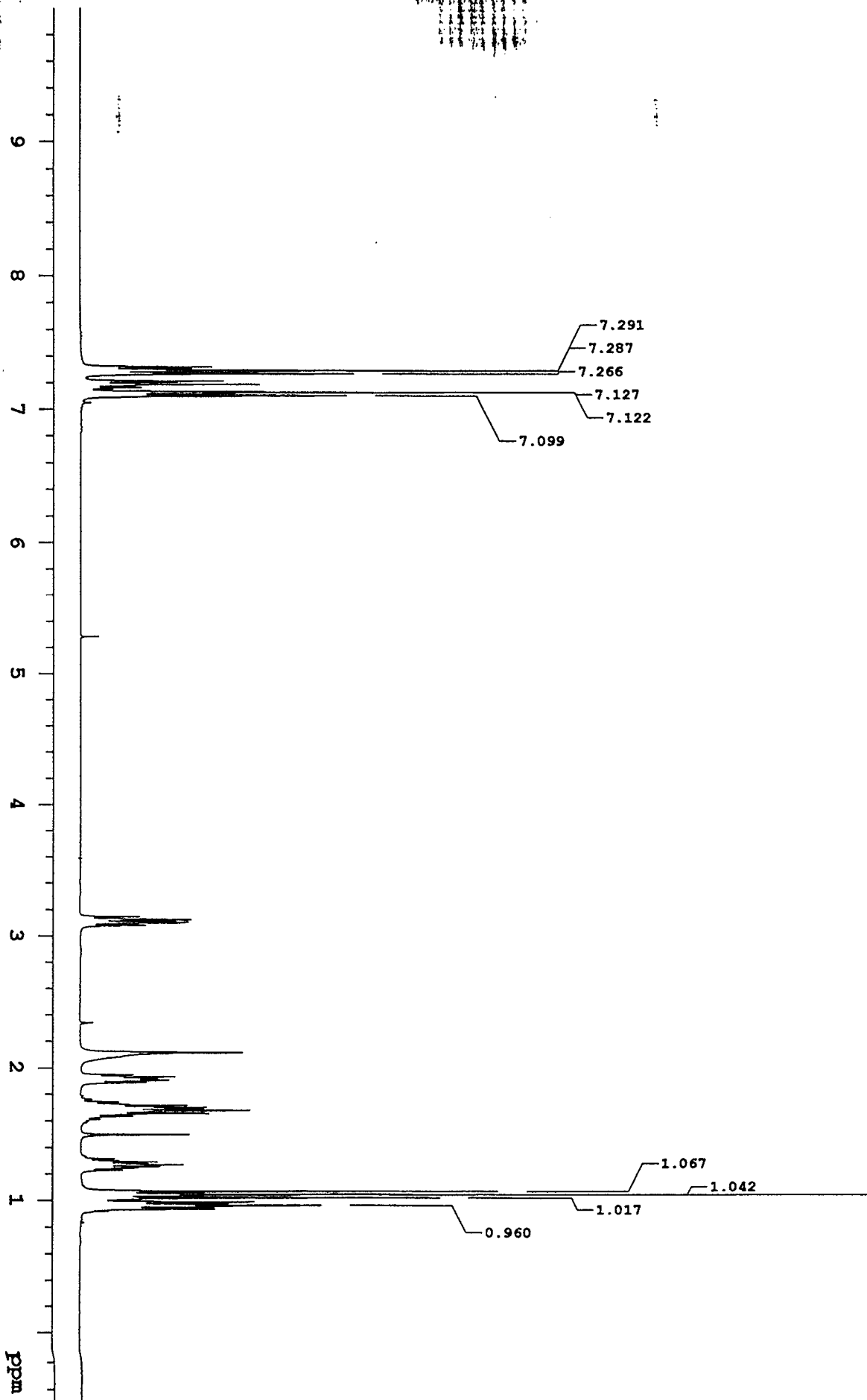
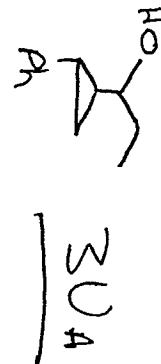
MK



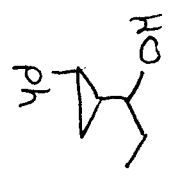
Carbon Spectra  
g2\_212022Fab161998.fid  
15 cyclic ketone



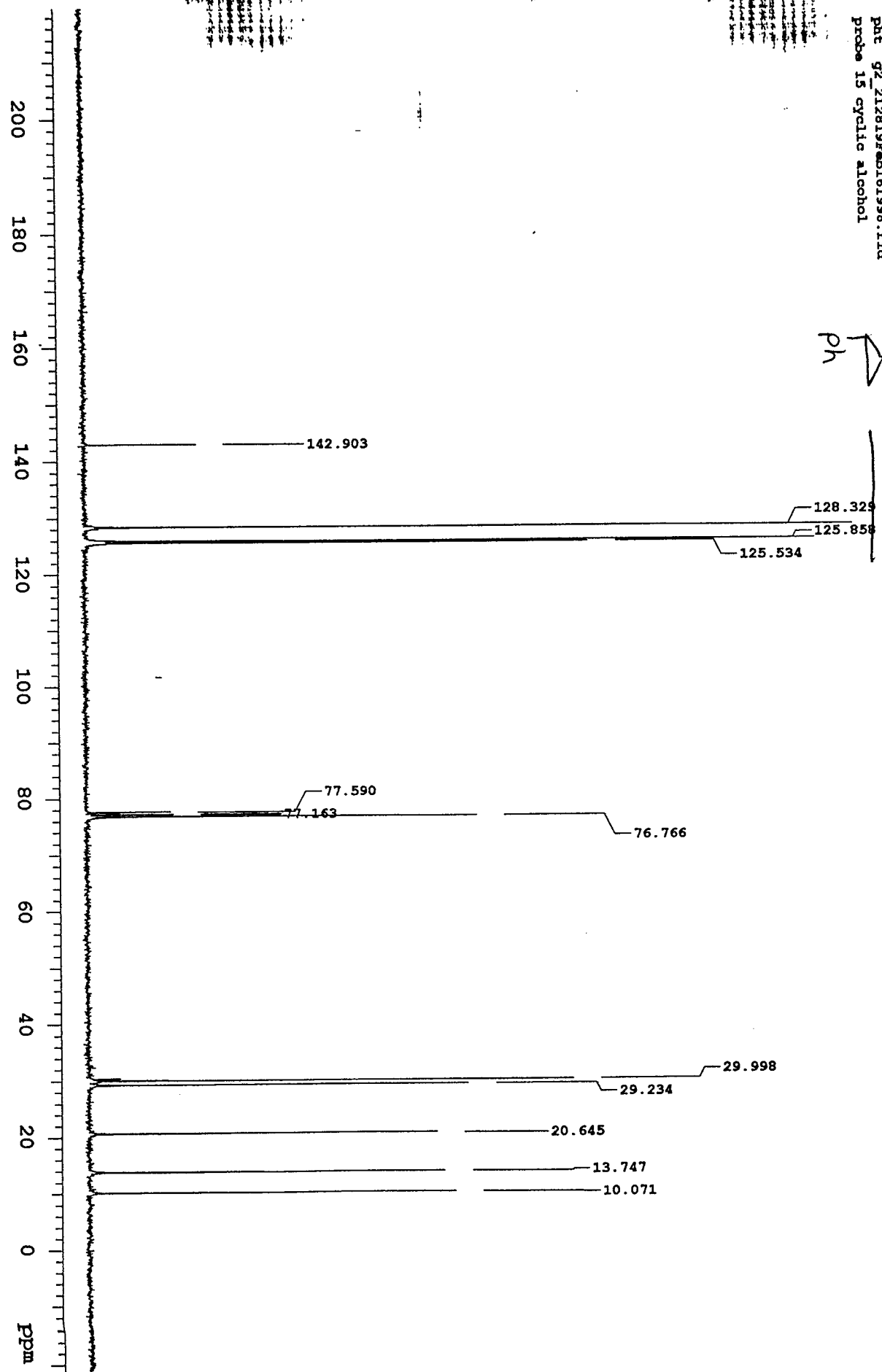
Proton Spectra  
pht\_g1\_212258Feb161998.fid  
probe 15 cyclic alcohol 2



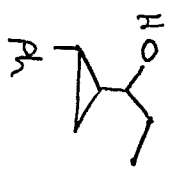
Carbon Spectra  
pht\_g2\_212819Feb161998.fid  
probe 15 cyclic alcohol



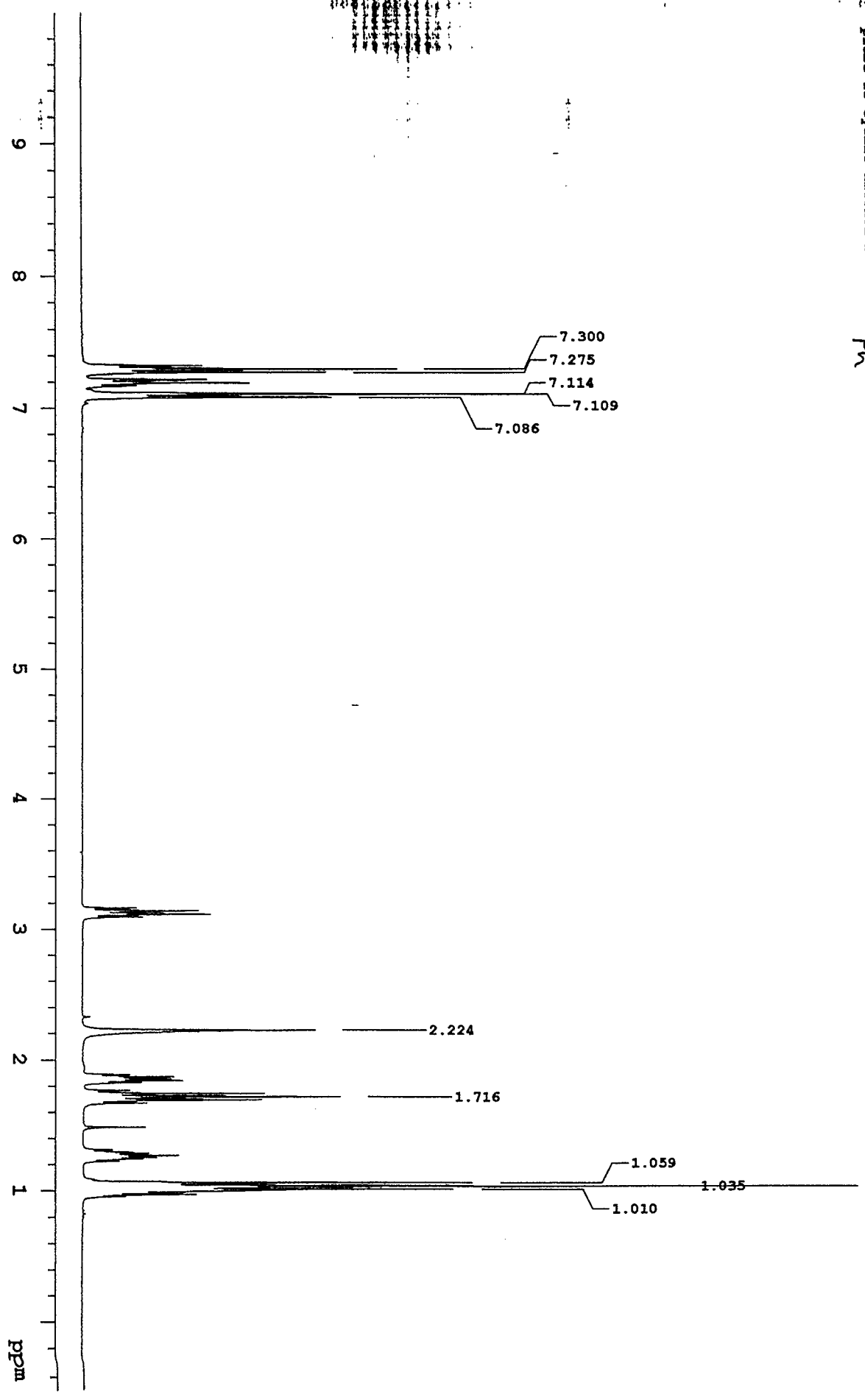
3UA



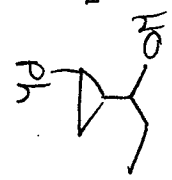
Proton Spectra  
Date: 01\_21\_10  
File: 213104Feb161998.fid  
Probe: 15 cyclic alcohol b



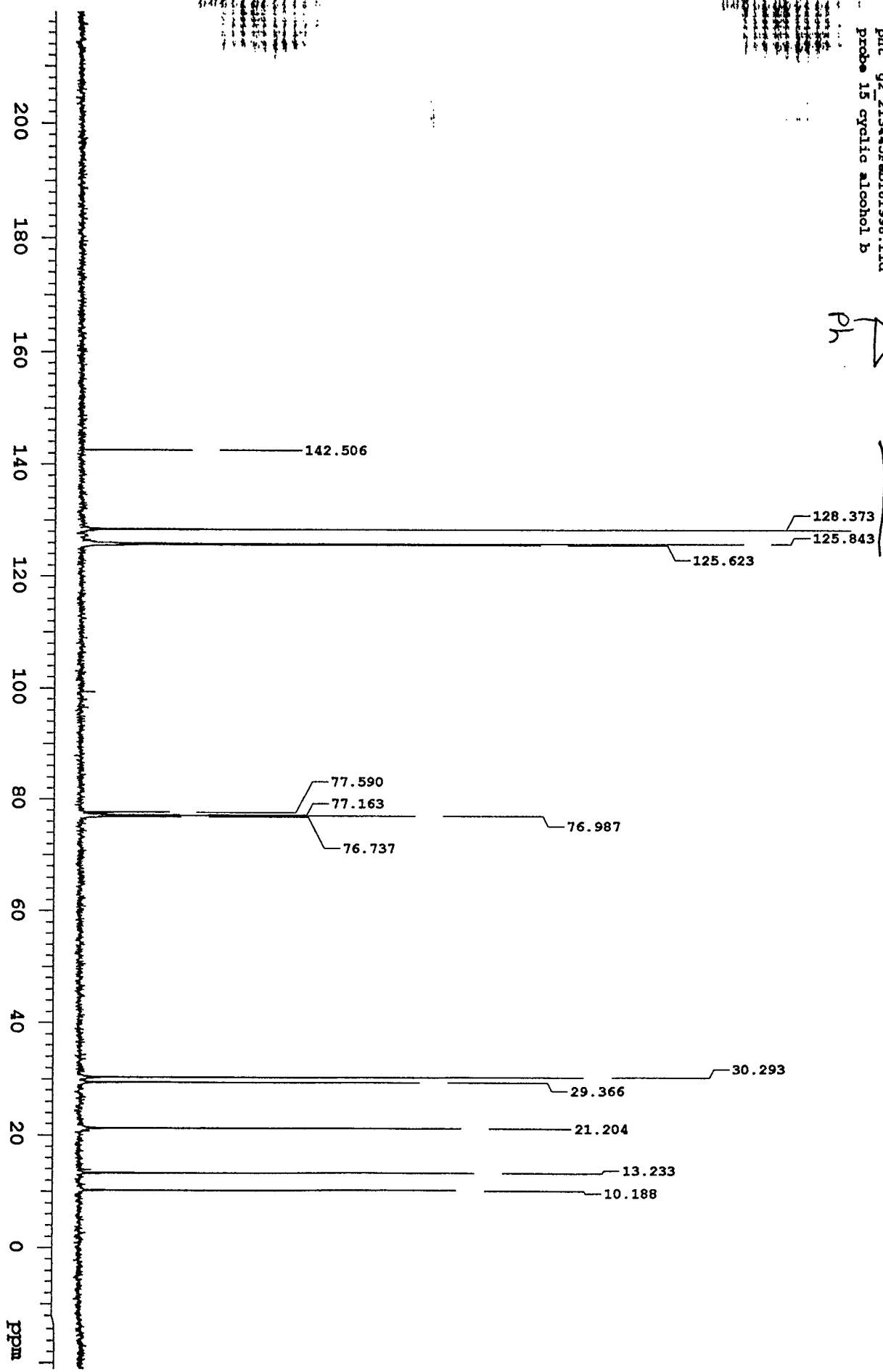
3UR



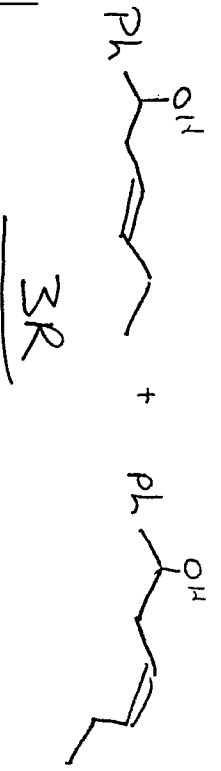
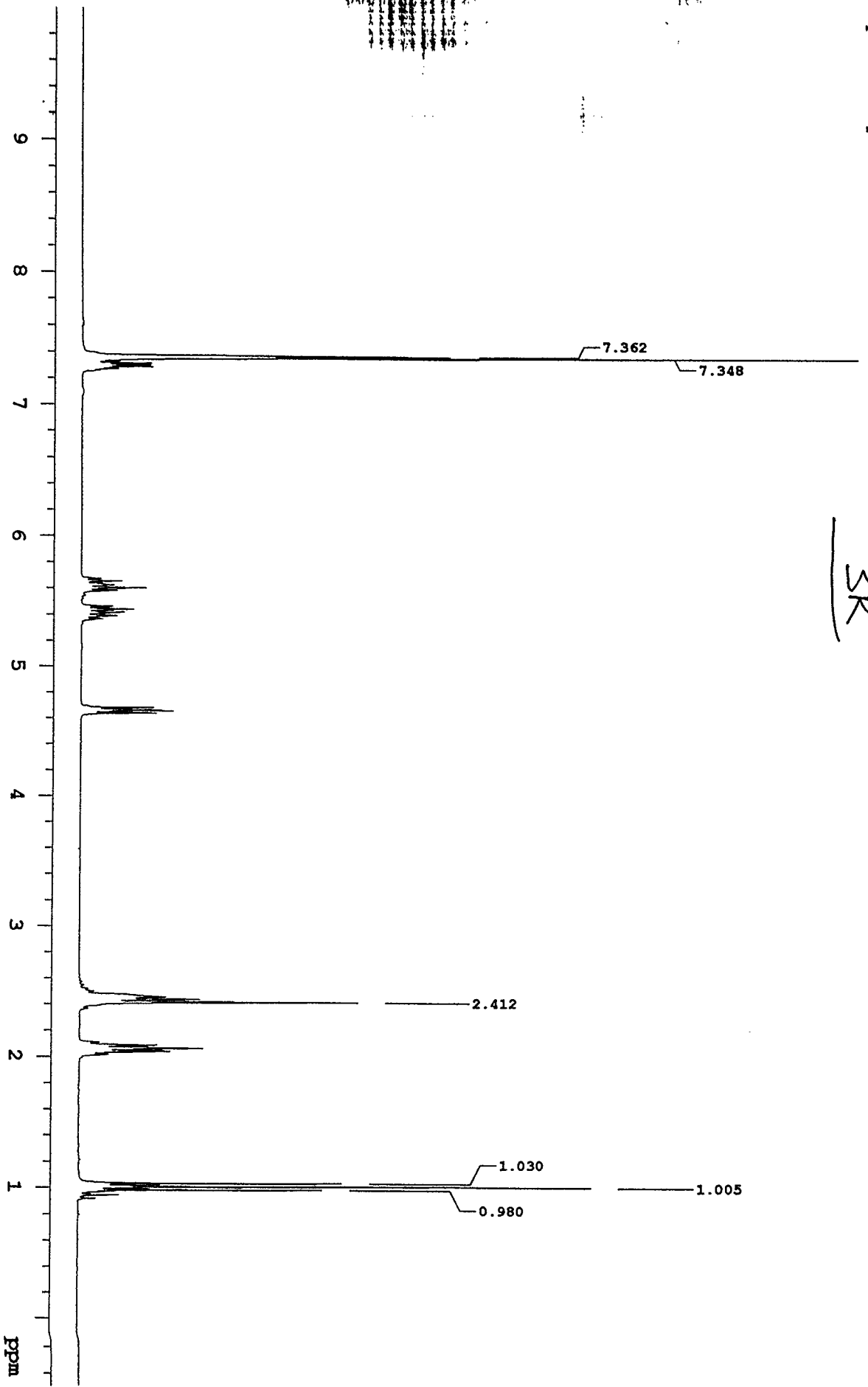
Carbon Spectra  
pht\_g2\_213445Fabi6198.fid  
probe 15 cyclic alcohol b

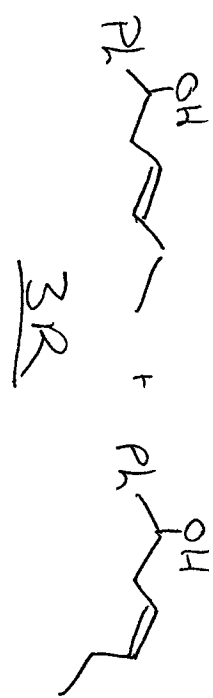
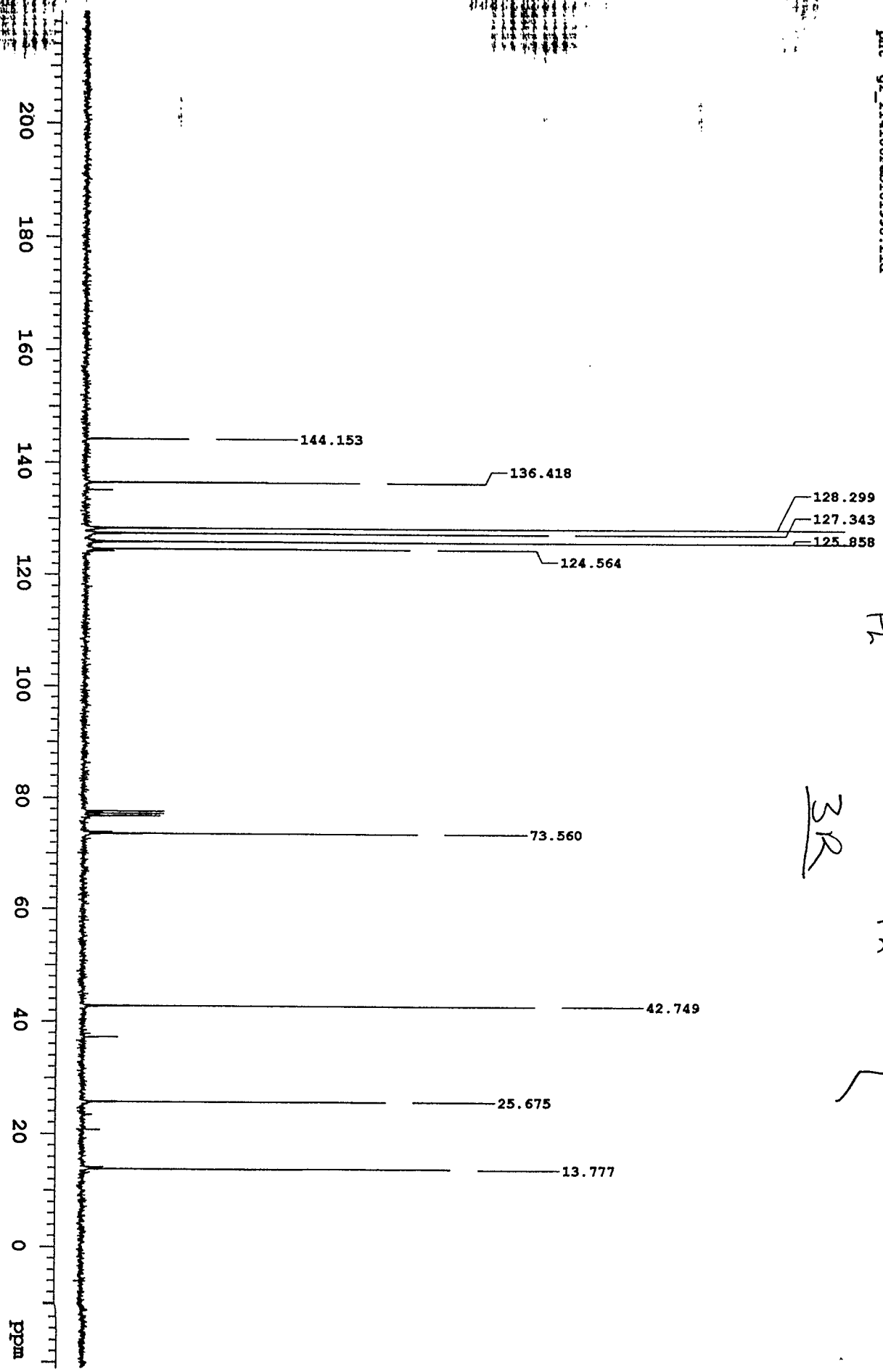


3UR



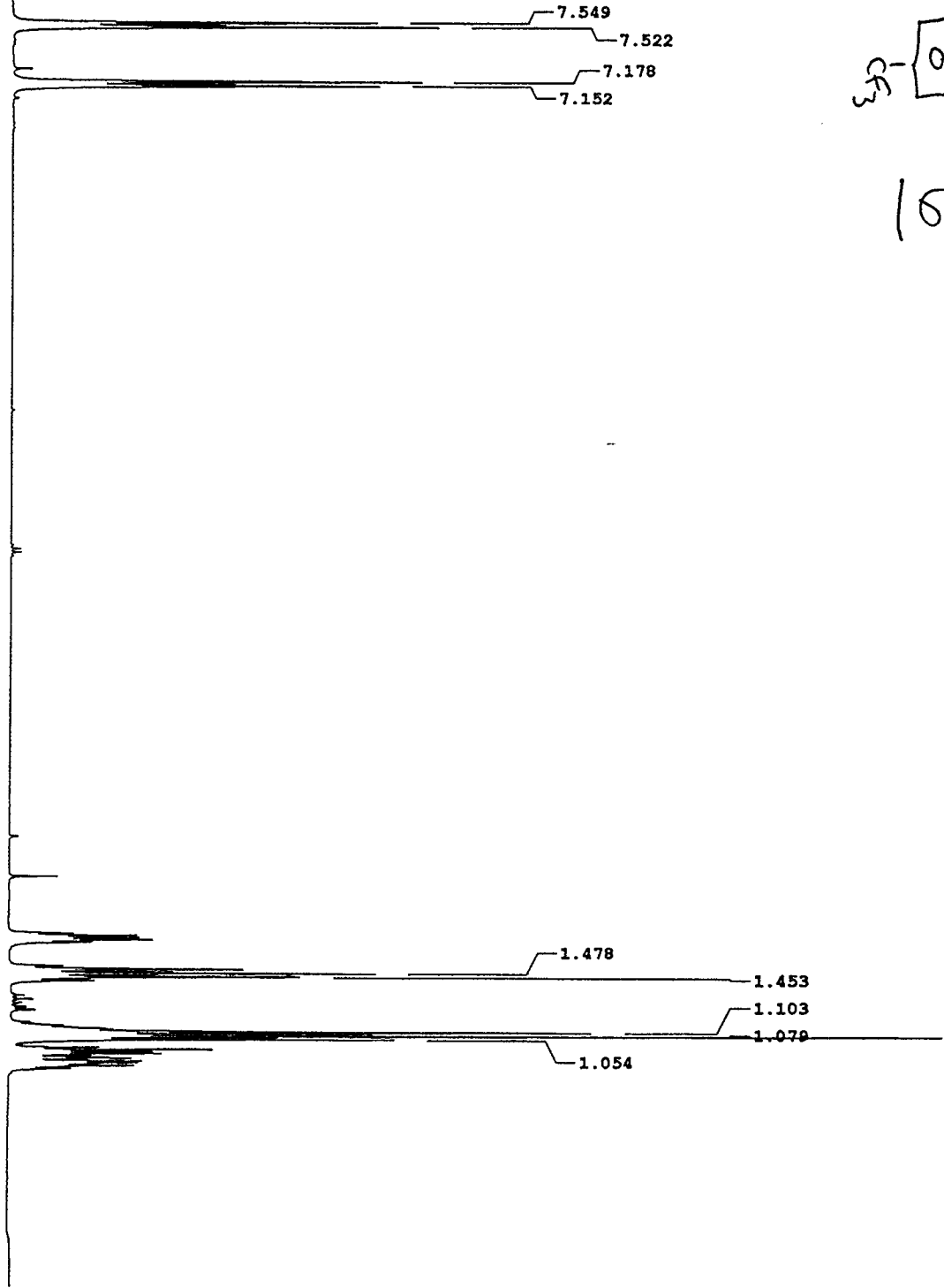
Proton Spectra  
pht\_g1\_213810Feb016198.fid  
probe 15 acyclic alcohols





Proton Spectra  
Pht\_g1\_224702Feb171998.fid  
00000011

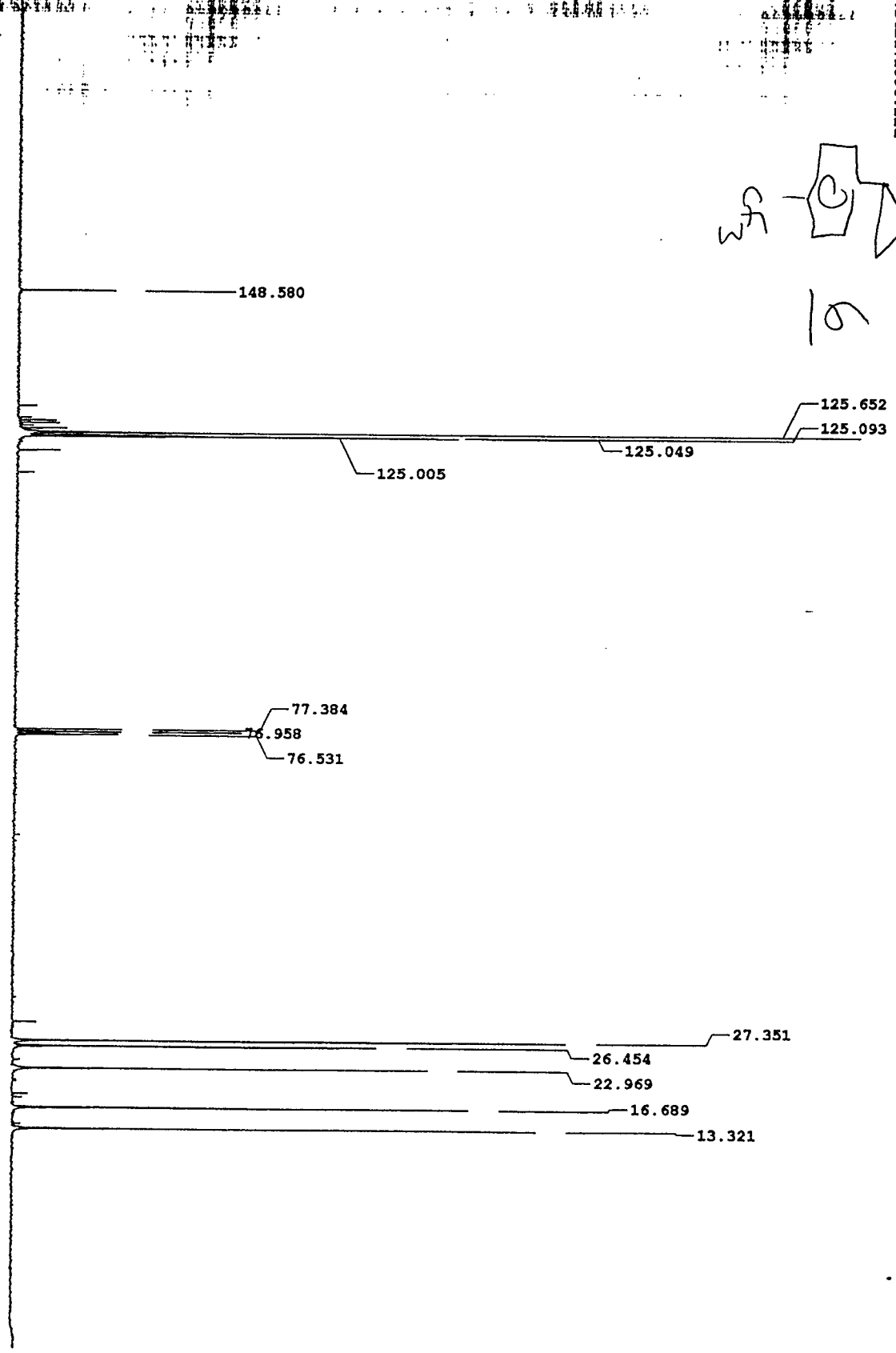
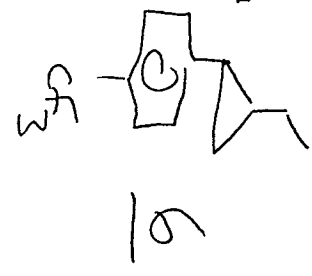
9  
8  
7  
6  
5  
4  
3  
2  
1  
ppm



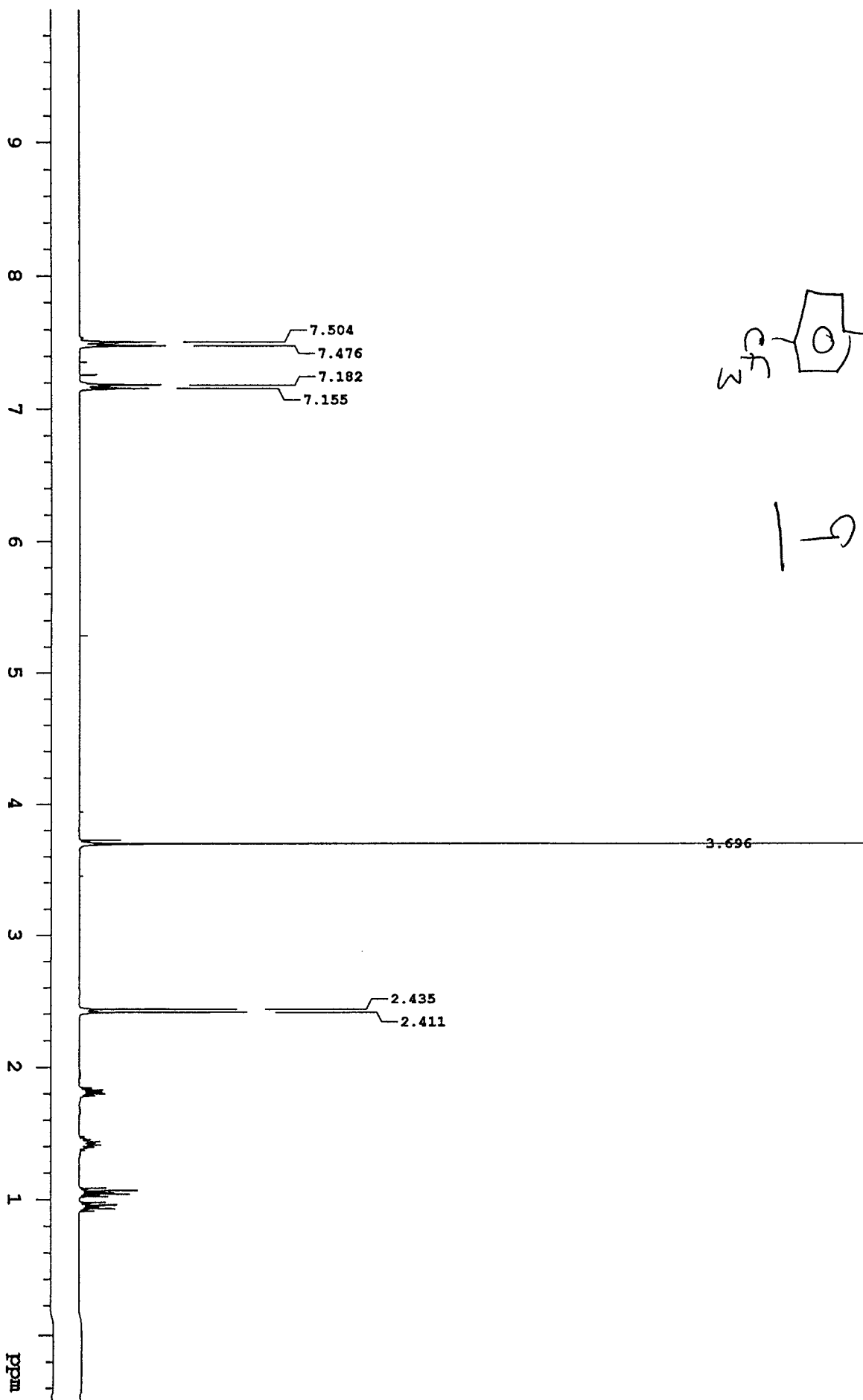
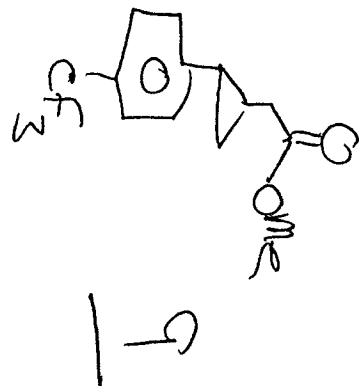
10

Carbon Spectra  
PLT 92-231607F-017198.FID

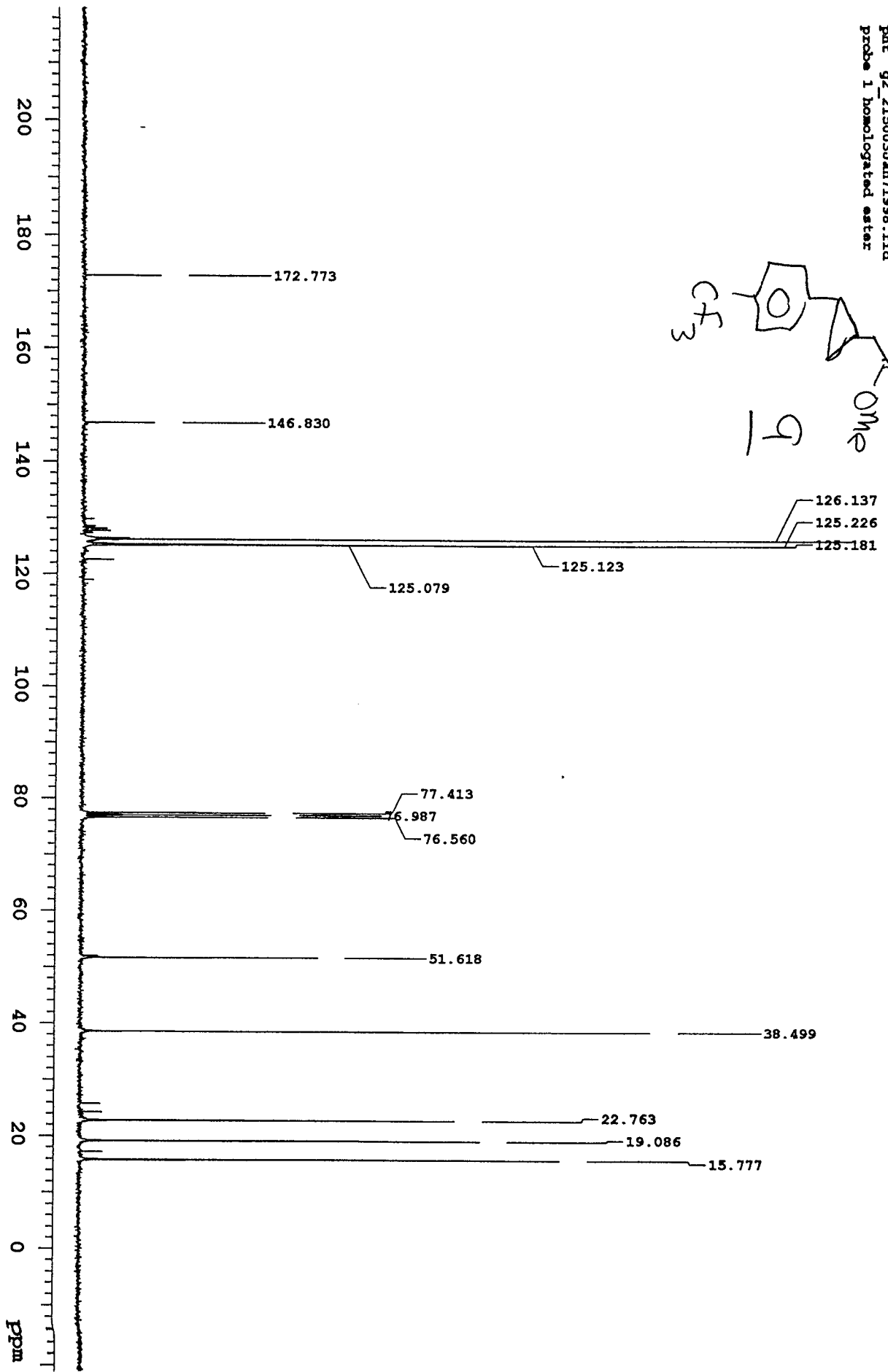
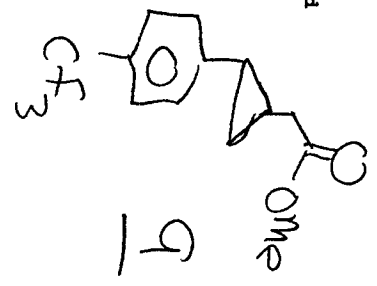
200  
180  
160  
140  
120  
100  
80  
60  
40  
20  
0  
ppm



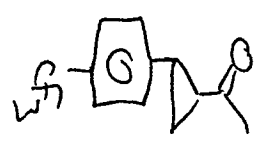
Proton Spectra  
pht\_g1\_210717Jan71998.fid  
probe 1 homologated ester



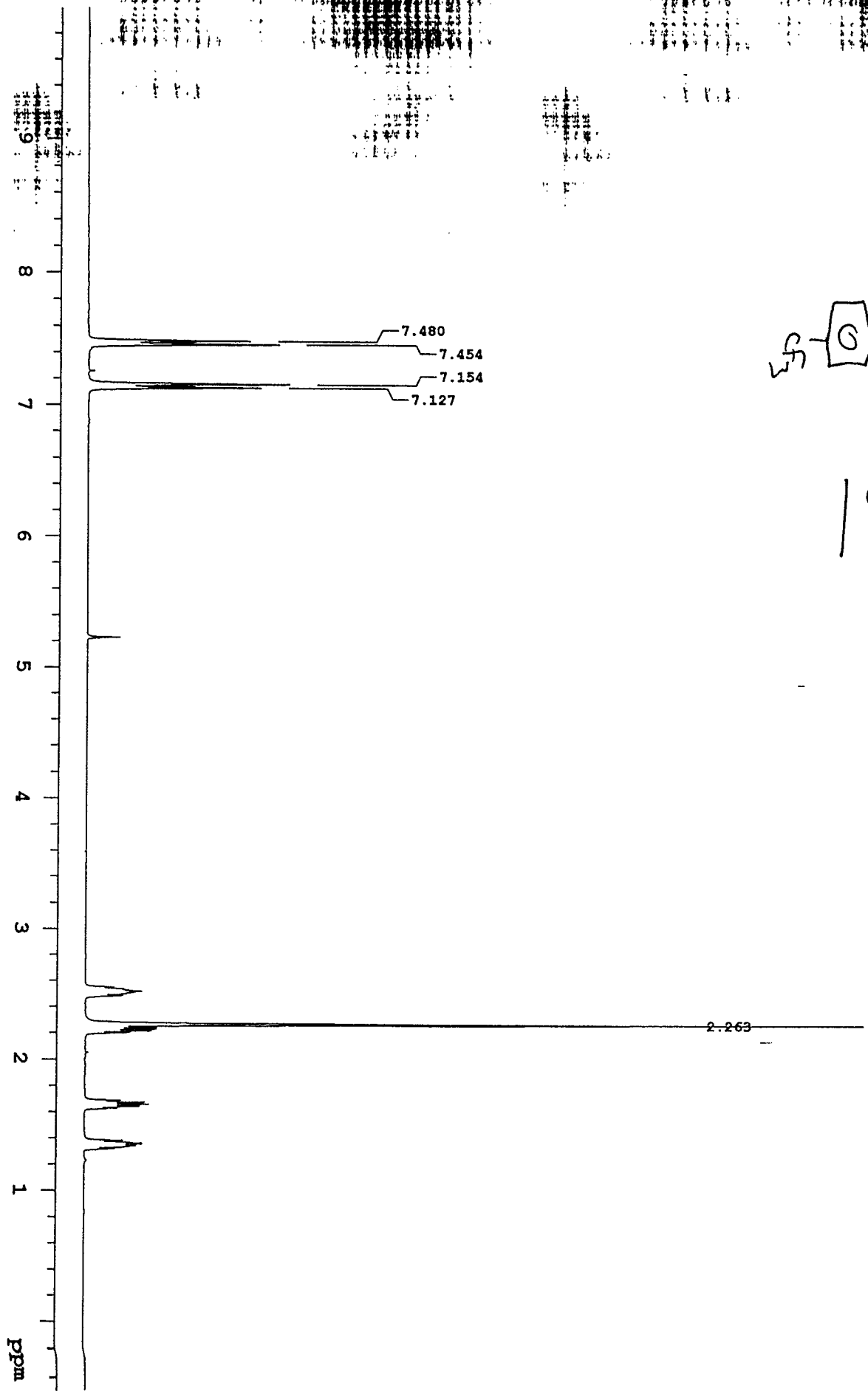
Carbon Spectra  
pht\_g2\_215003Jan71998.fid  
probe 1 homologated ester



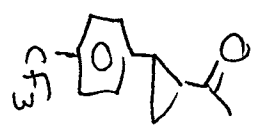
91\_2321317\_06171998.fid  
15 cyclic ketone



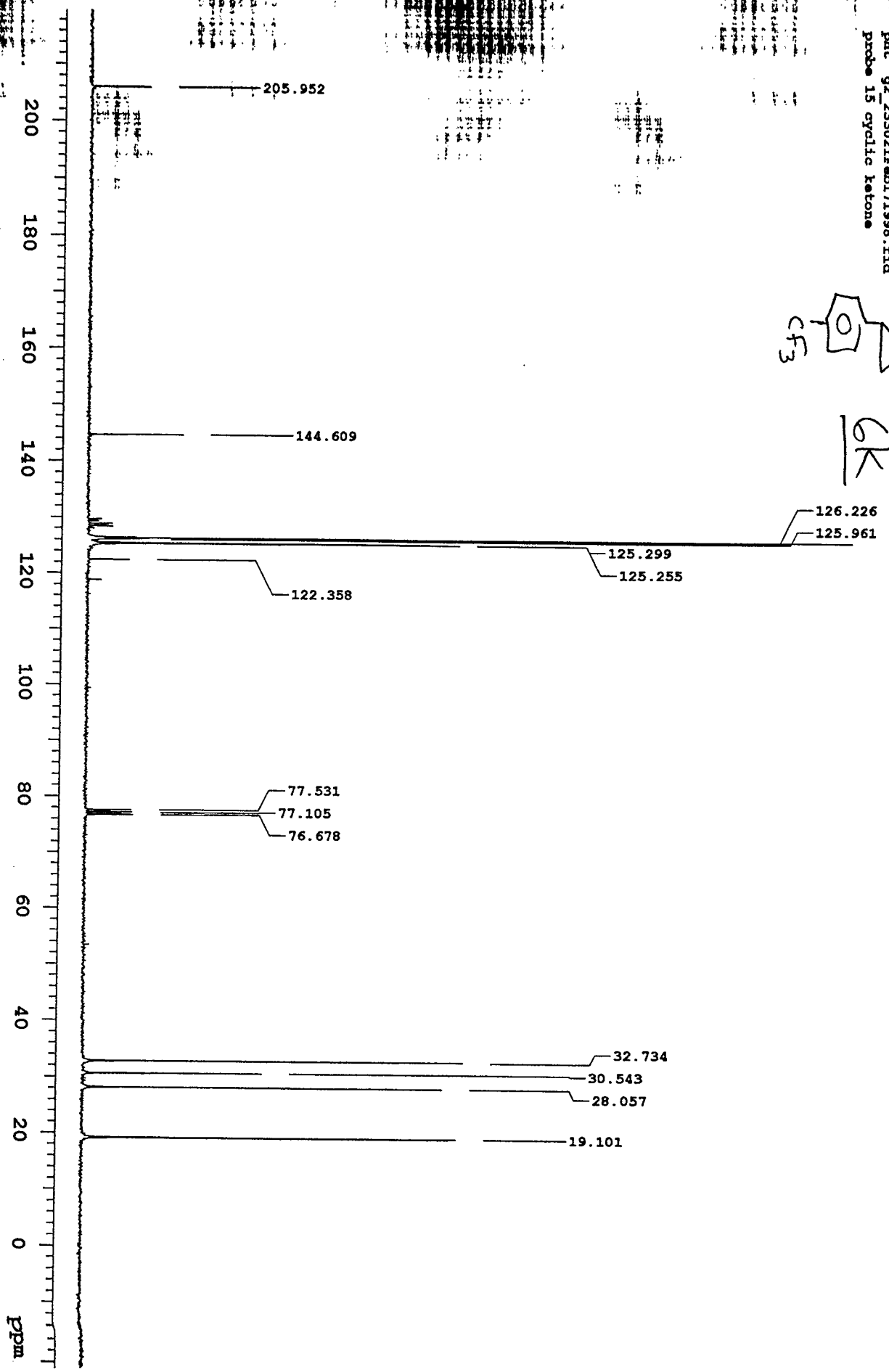
OK



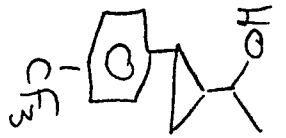
Carbon Spectra  
pht\_g2\_233021Feb171998.fid  
probe 15 cyclic ketone



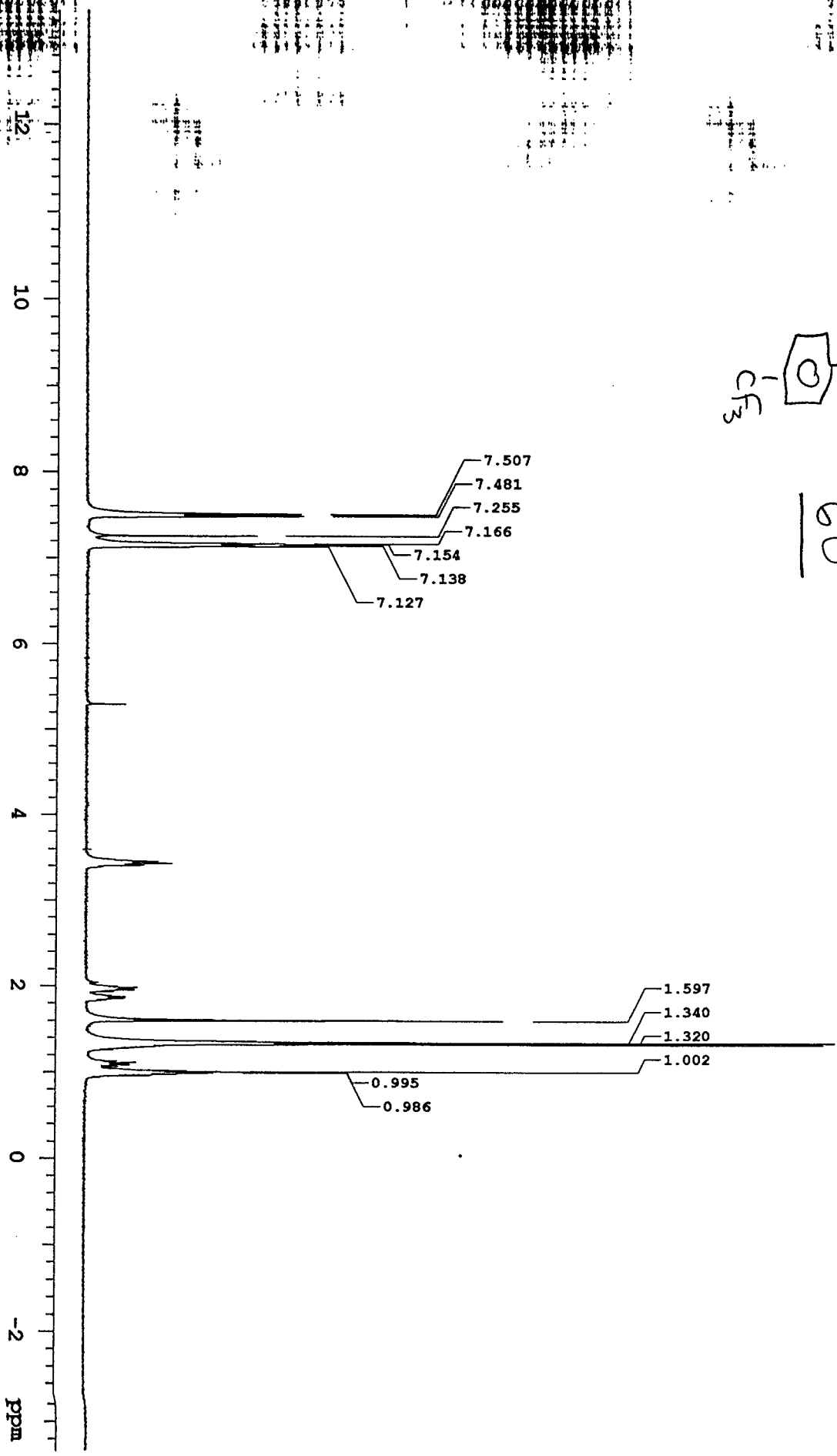
OK



Proton Spectra  
pat 91 233502Feb171998.fid  
probe 14 cyclic alcohols



6U



Proton Spectra  
pht\_g1\_223513Feb51998.fid  
probe 14 acyclic alkene

