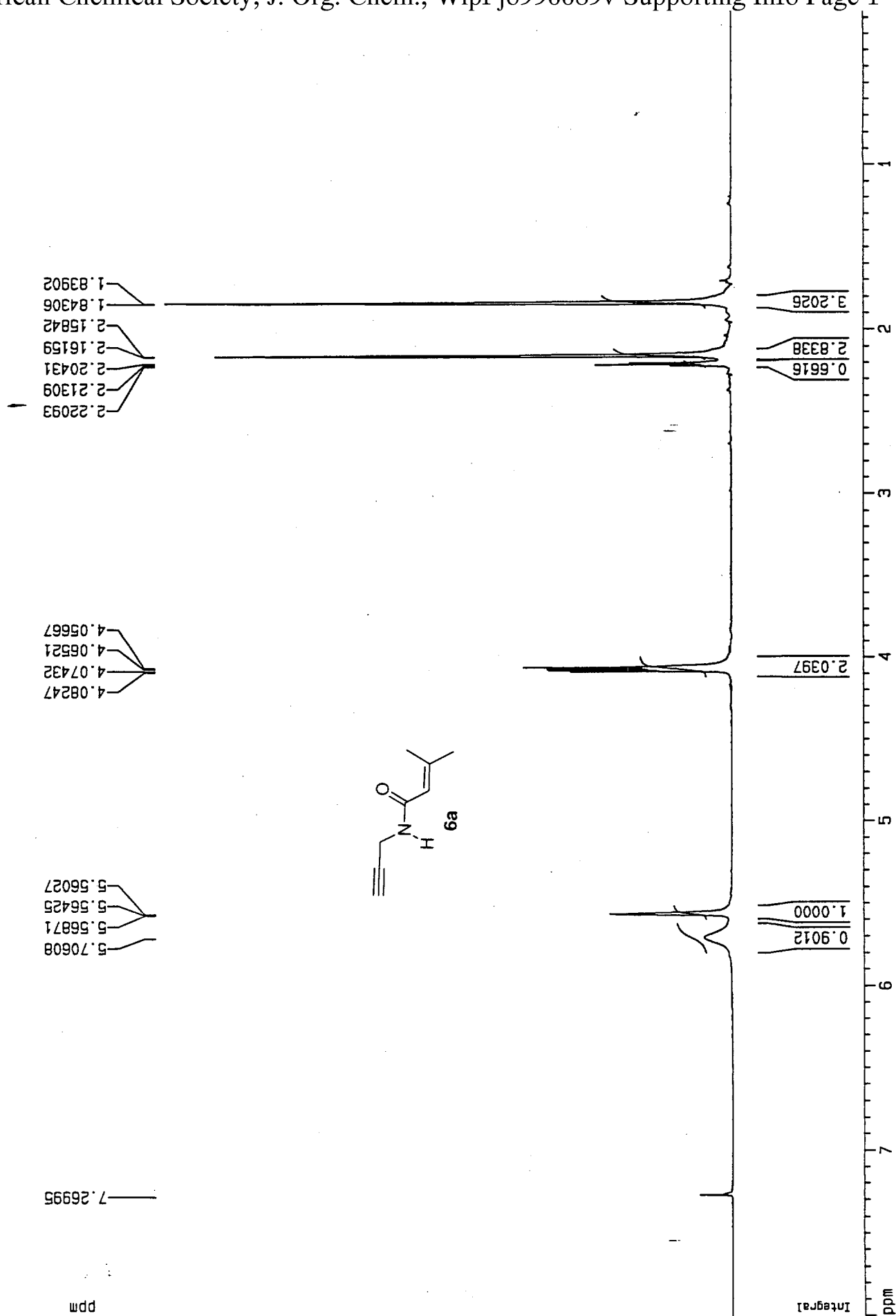


Propargyl 3,3-dimethylacrylamide



Propargyl 3,3-dimethylacrylamide

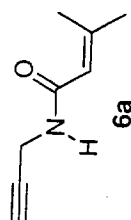
28.812
27.281
19.957

80.136
77.689
77.264
76.839
71.164

117.916

152.110

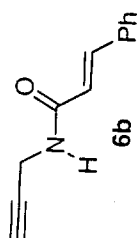
166.868



ppm

ppm

CRH-2-223; Propargyl trans-Cinnamide

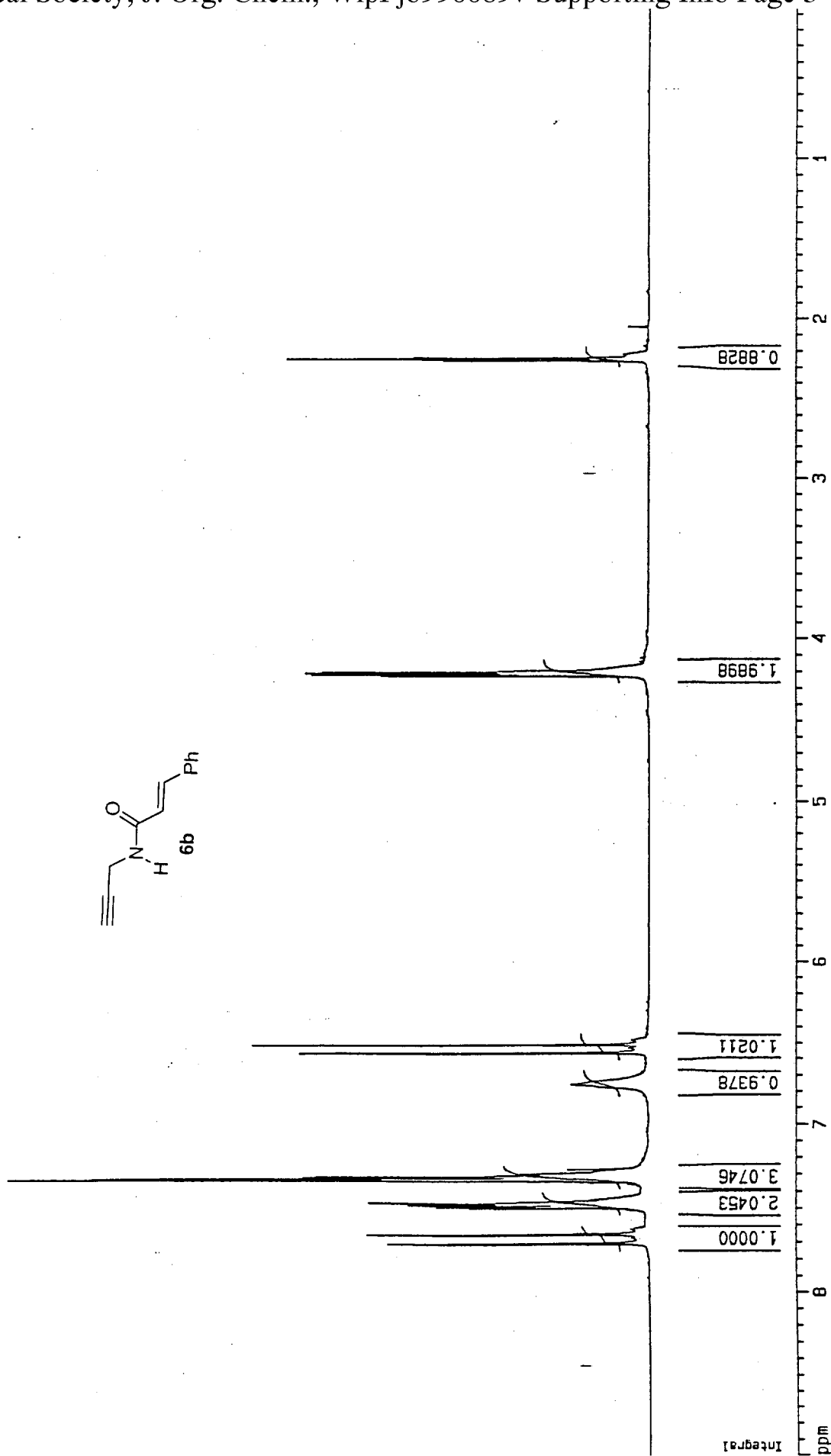


2.26471
2.25693
2.24817

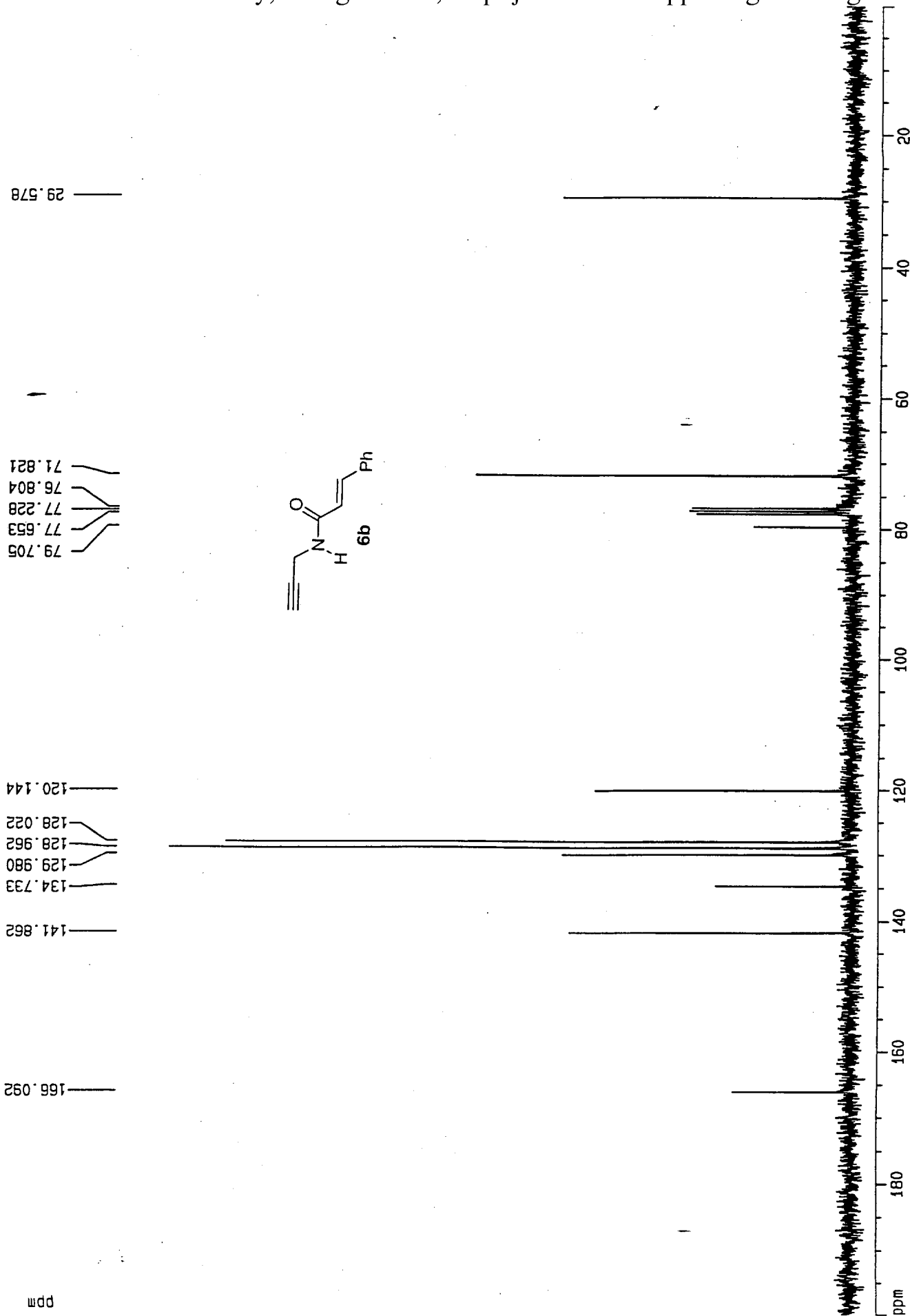
4.22577
4.21751
4.20848
4.19974

7.70929
7.65727
7.49873
7.49201
7.47958
7.46656
7.44976
7.34583
7.34089
7.33386
7.32662
7.31582
7.31056
7.29762
7.28719
7.27986
7.27188
6.75502
6.56540
6.51292

ppm



CRH-2-223; Propargyl trans-Cinnamide

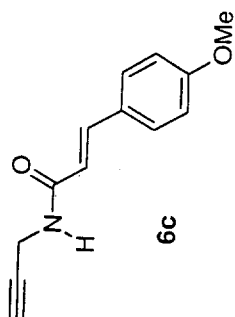


CRH-2-231; Propargyl 4-Methoxy-trans-cinnamide

2.26618
2.25759
2.24993

4.20830
4.19976
4.19083
4.18291
3.81689
3.78316

7.64964
7.59762
7.45079
7.42176
7.26995
6.87647
6.84741
6.34822
6.29625
6.18921



Integral

1.0000

1.9915

2.0242

1.0297

0.9346

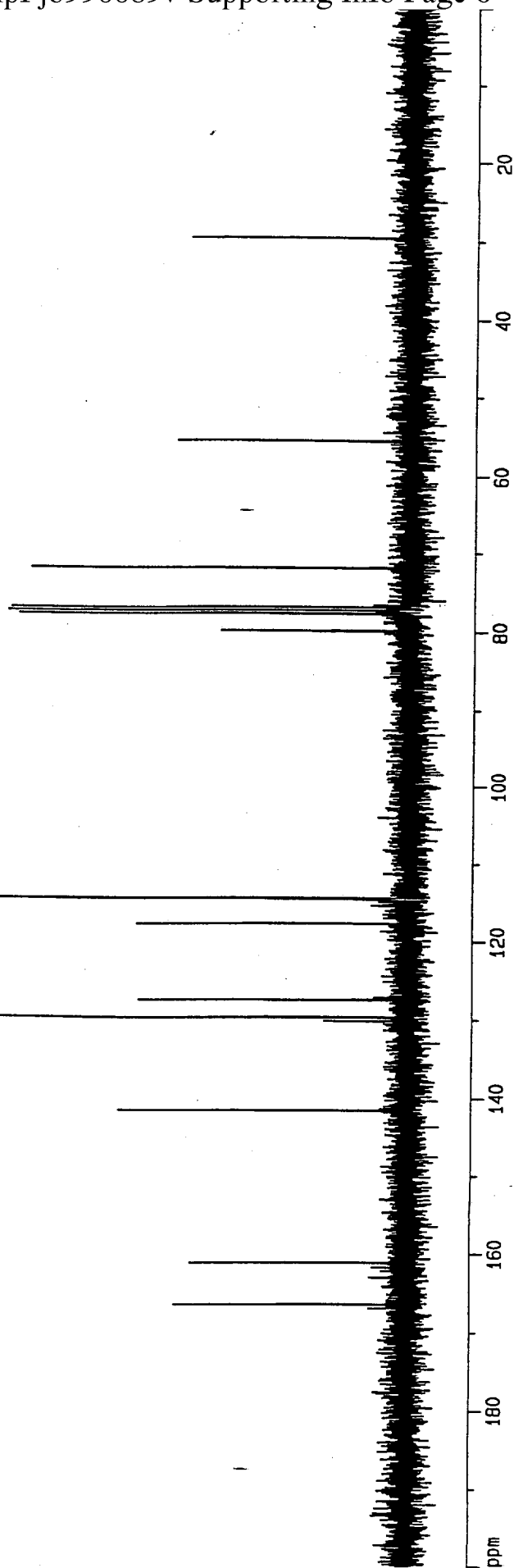
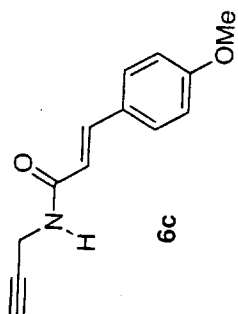
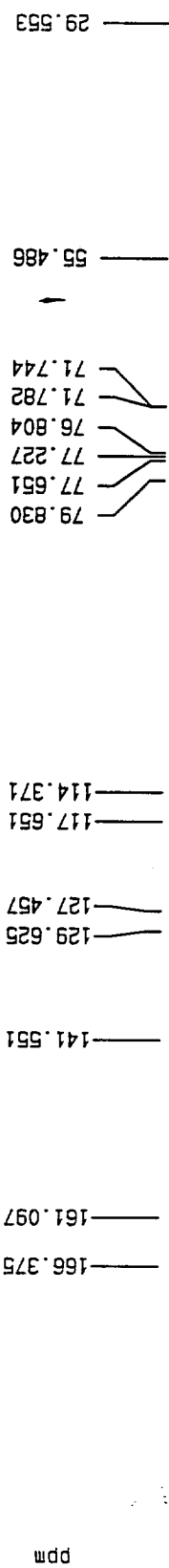
1.9576

3.0501

0.9425

ppm

CRH-2-231; Propargyl 4-Methoxy-trans-cinnamide



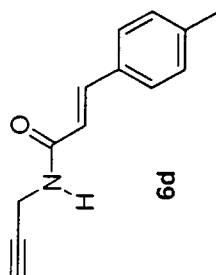
CRH-2-224; Propargyl-4-methyl-trans-cinnamide

2.34954
2.26378
2.25534
2.24788

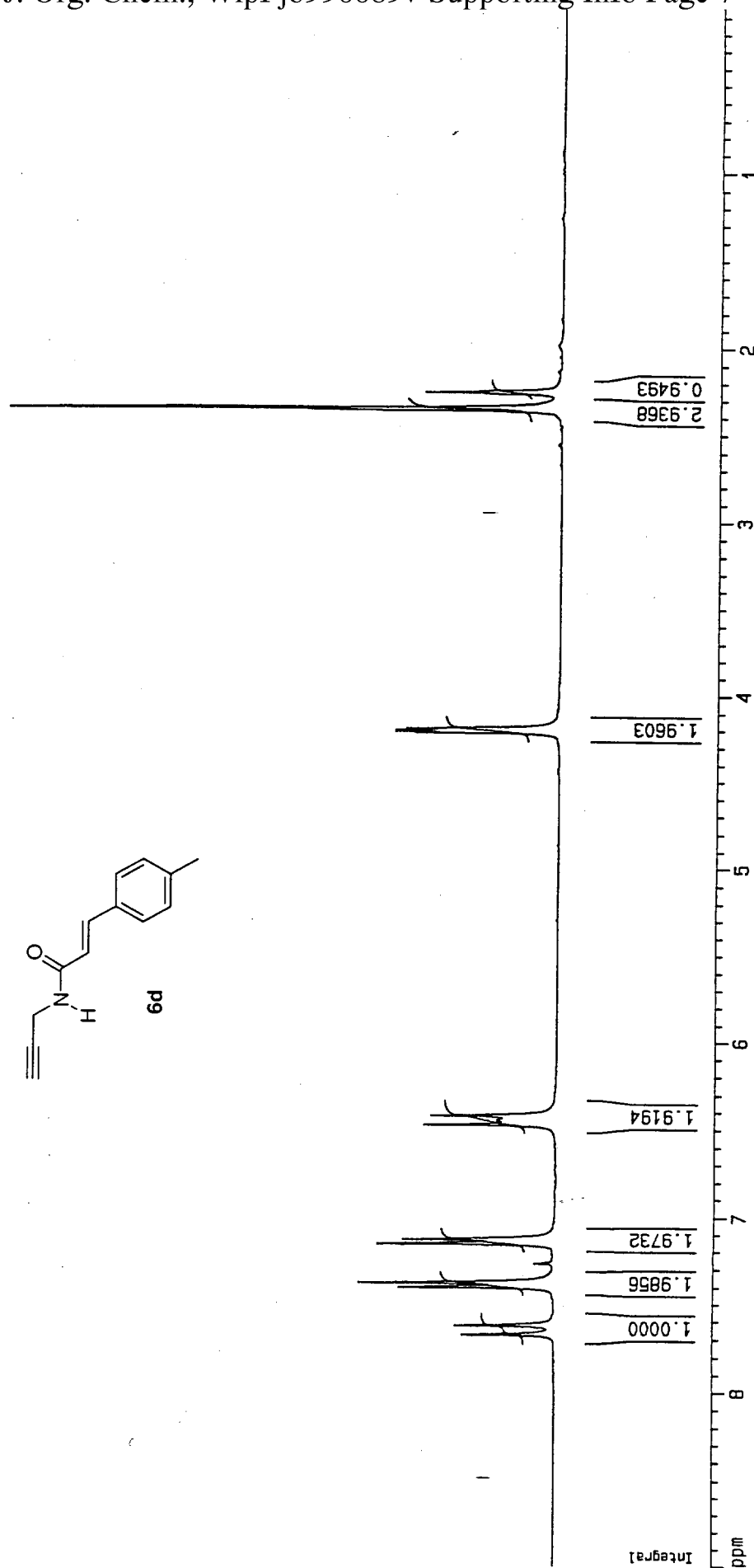
4.21375
4.20595
4.19687
4.18849

6.47086
6.44418
6.41922

7.67212
7.61999
7.39674
7.37034
7.14963
7.12354



ppm



CRH-2-224; Propargyl 4-Methyl-trans-cinnamide

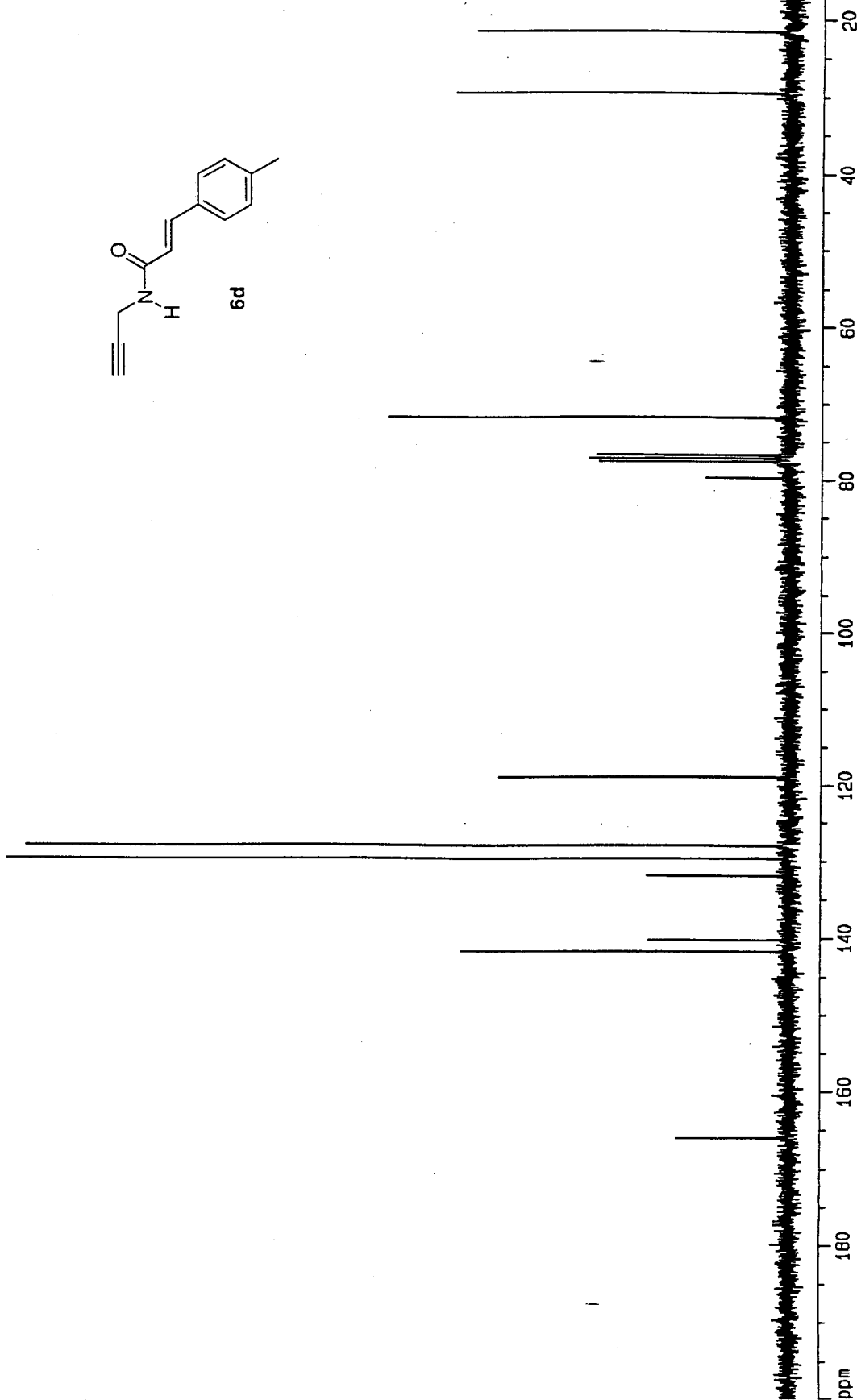
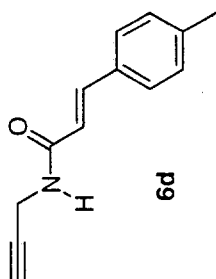
21.488
29.475

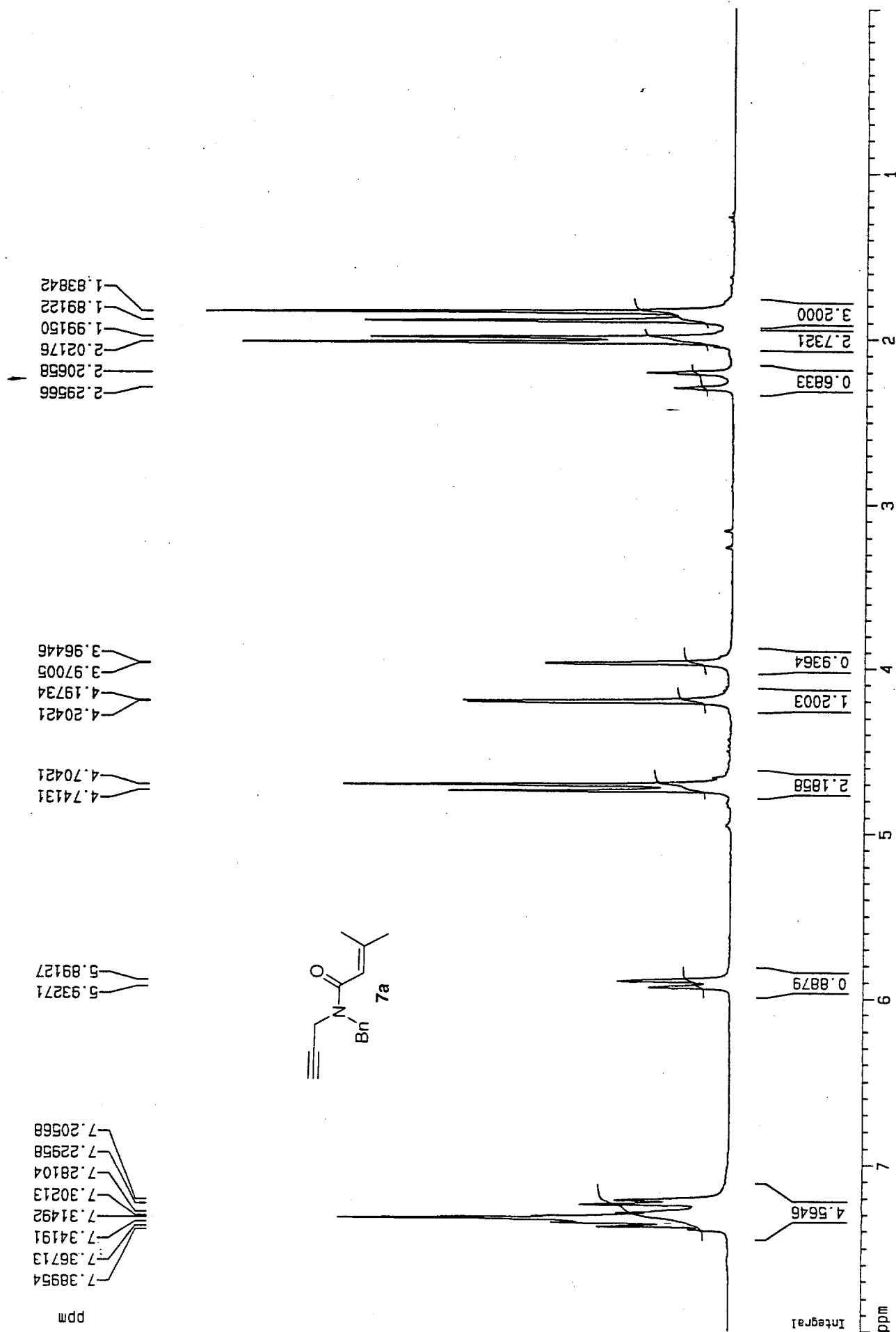
71.719
76.715
77.139
77.563
79.684

118.933
127.932
129.611
131.916
140.213
141.801

166.076

ppm





N-Benzyl N-Propargyl 3,3-Dimethylacrylamide

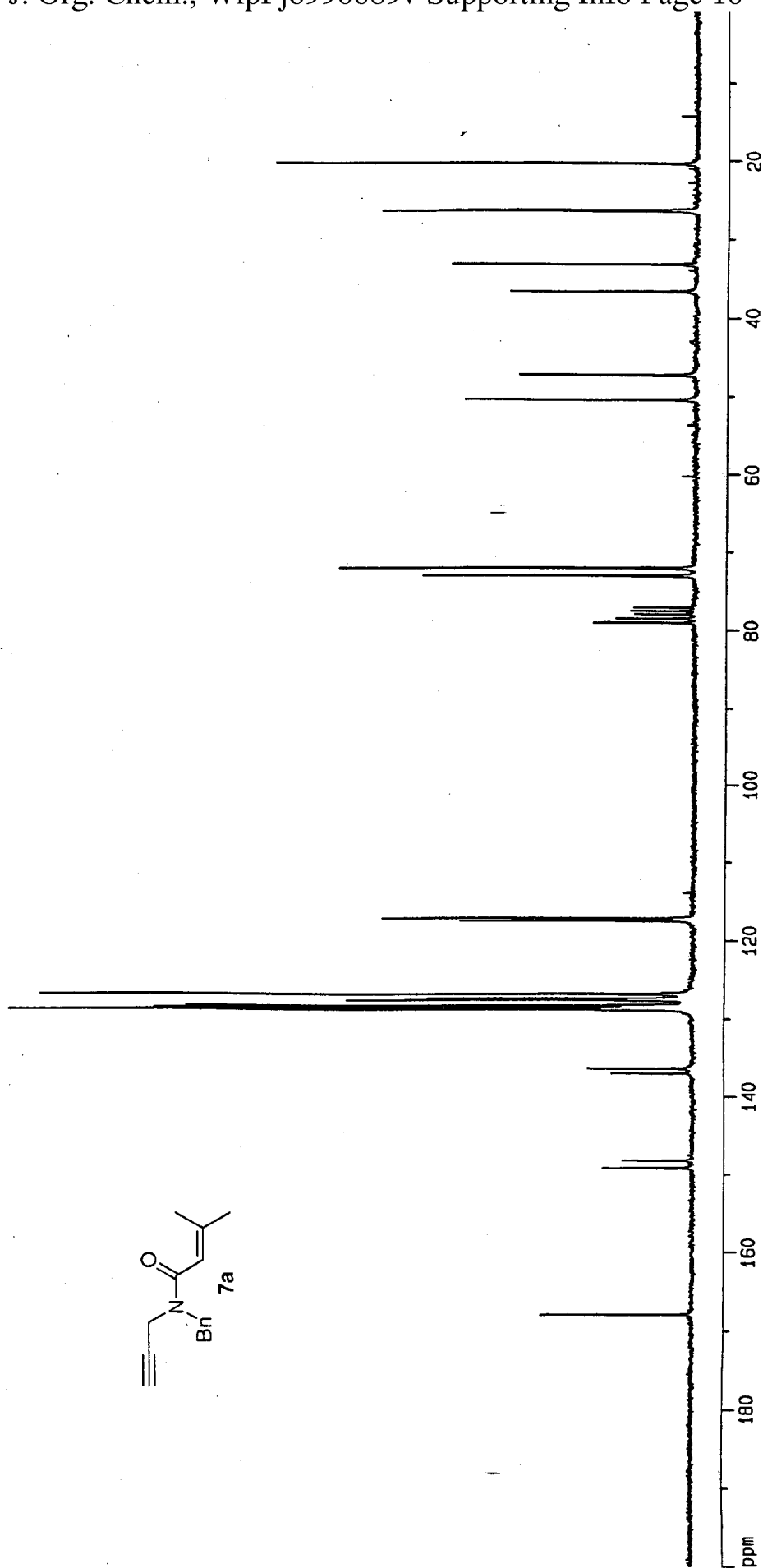
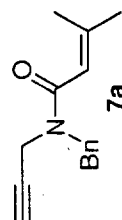
20.412
26.399
26.545
33.298
36.772
47.317
50.484

72.044
73.015
77.213
77.540
78.067
78.582
79.099

117.153
117.501
126.954
127.516
127.724
128.398
128.631
128.868
136.447
137.042
148.208
149.212

167.957

ppm



CRH-2-225; Bn-Propargyl trans-cinnamide

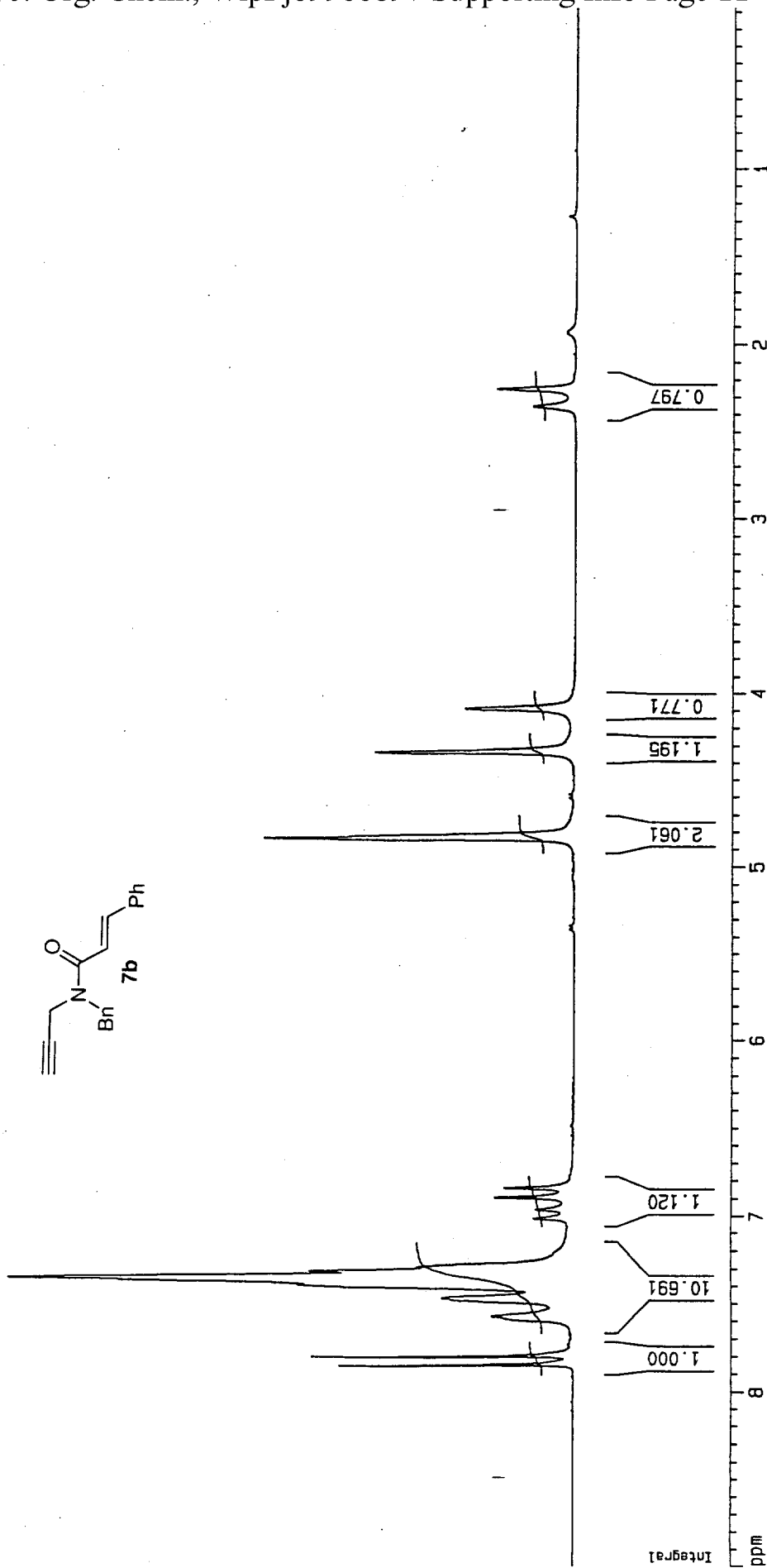
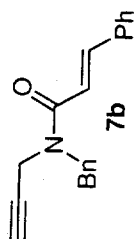
2.36046
2.25949

4.09162
4.33716

4.84069

7.84956
7.79831
7.57065
7.46630
7.39053
7.34721
7.30819
7.28358
7.27211
7.01715
6.96591
6.89524
6.84404

ppm



CRH-2-225; Bn-Propargyl trans-cinnamide

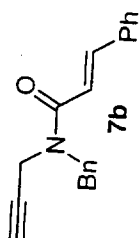
34.973
36.716

49.120
50.402

72.206
73.191
76.808
77.233
77.656
78.673
78.995

116.997
126.877
128.078
128.560
128.955
129.120
129.998
135.126
136.494
136.918
143.955
144.293

166.830



ppm

ppm

20

40

60

80

100

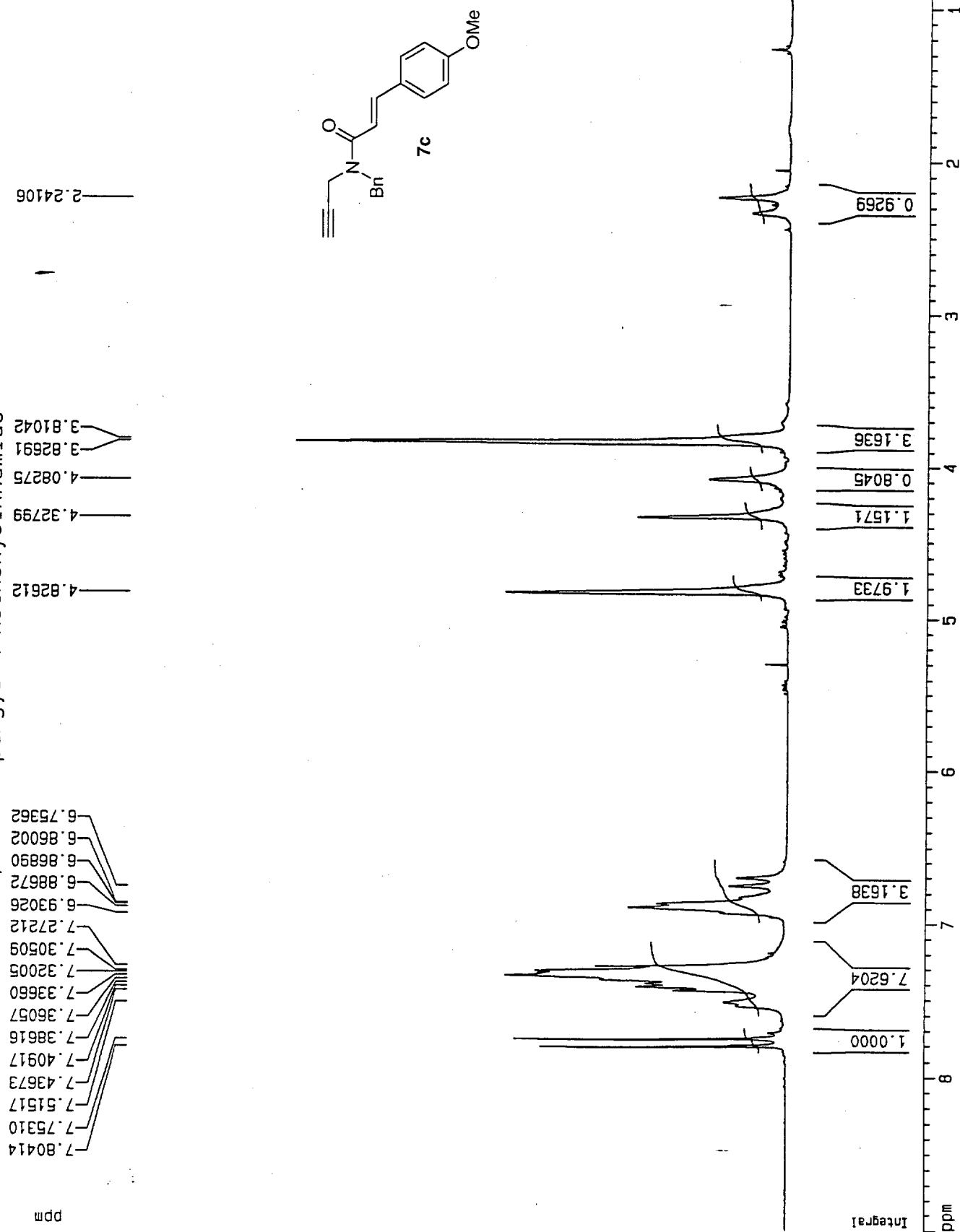
120

140

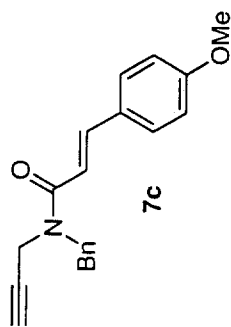
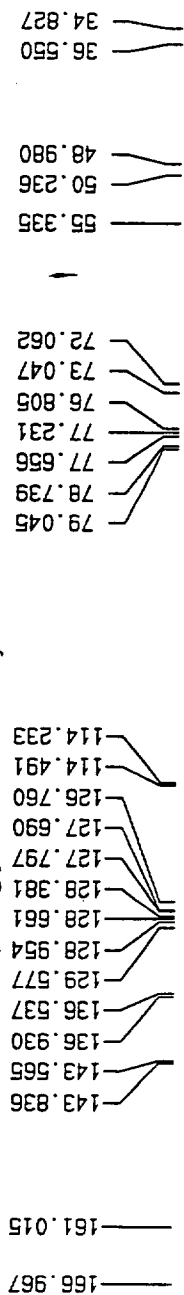
160

180

CRH-2-232; Bn-Propargyl 4-Methoxycinnamide



CRH-2-232; Bn-Propargyl 4-Methoxycinnamide



ppm

ppm

CRH-2-226; Bn-Propargyl 4-Methyl-trans-cinnamide

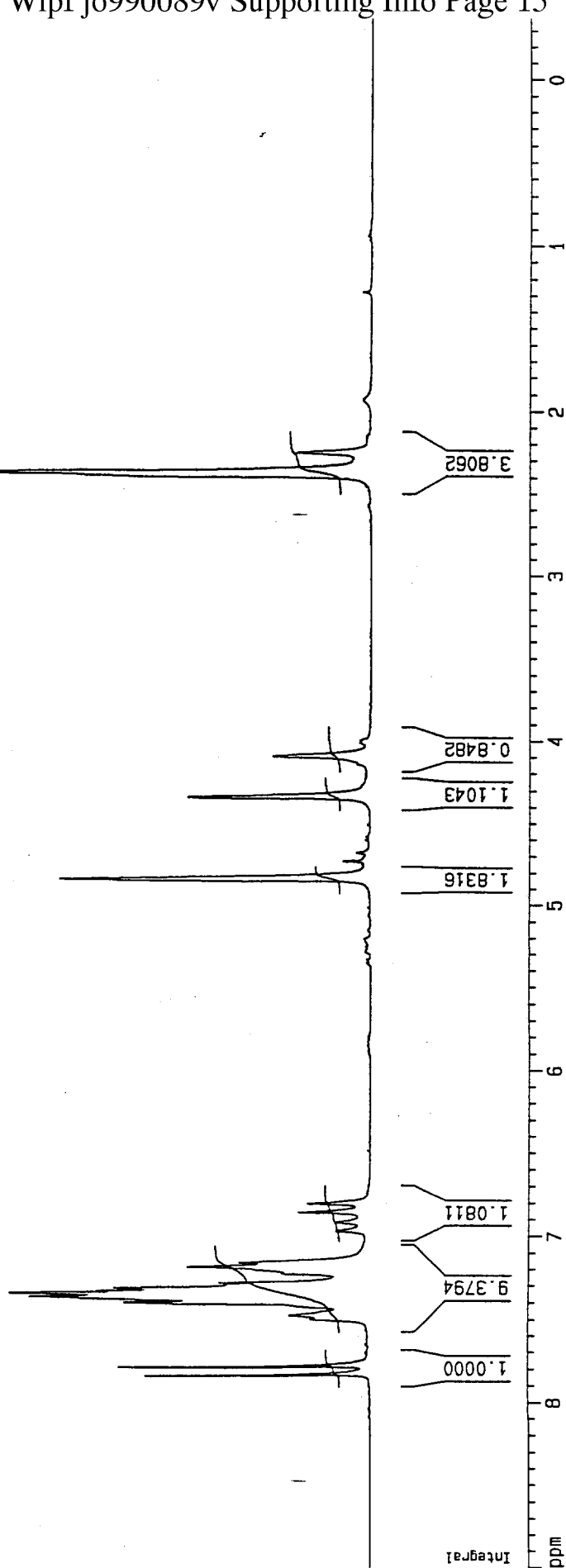
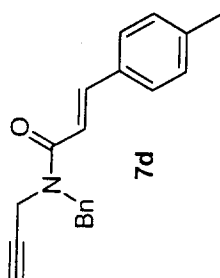
2.36759
2.25340

4.08988
4.33286

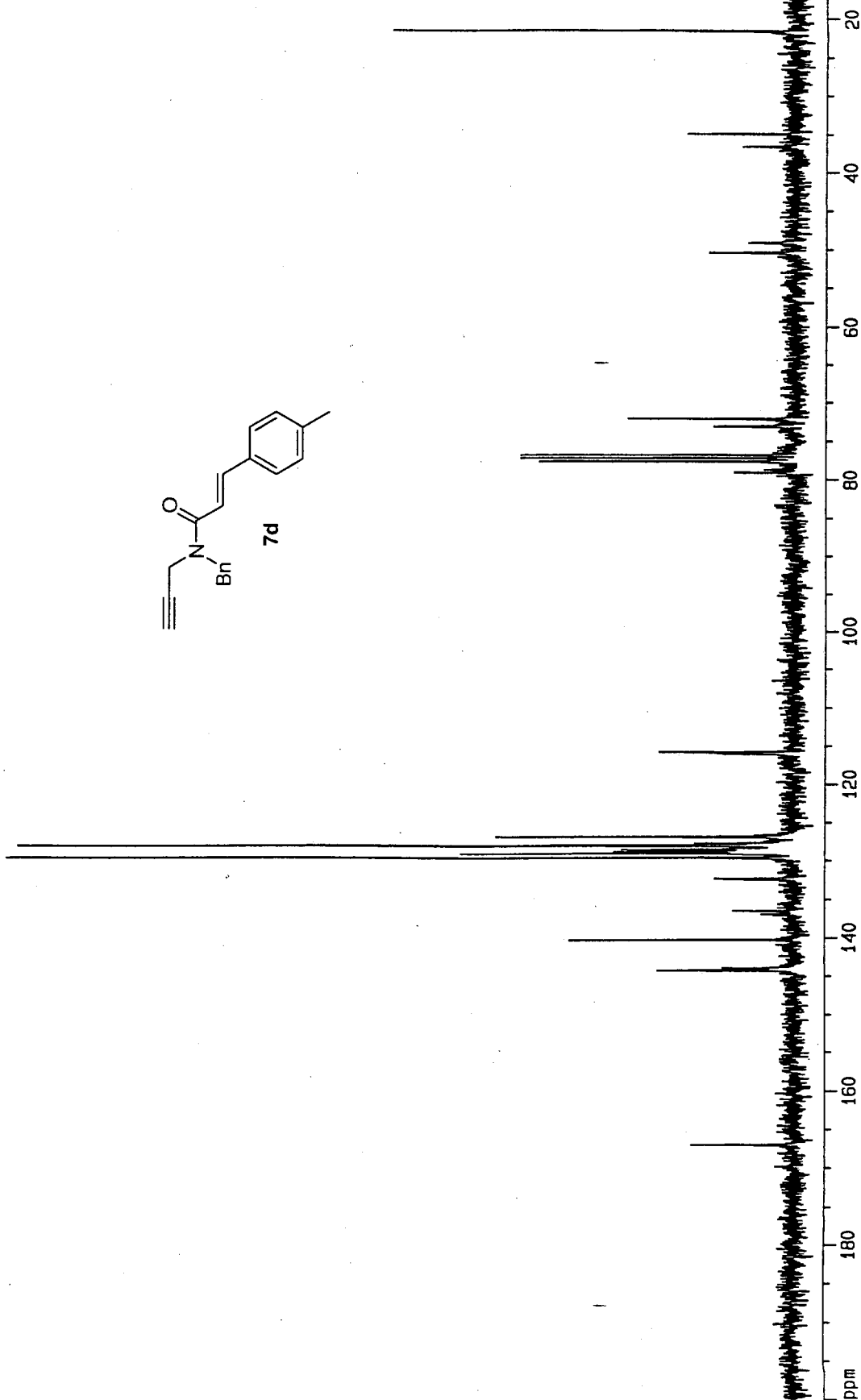
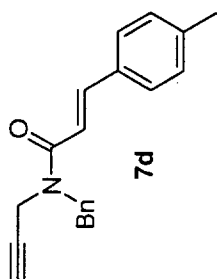
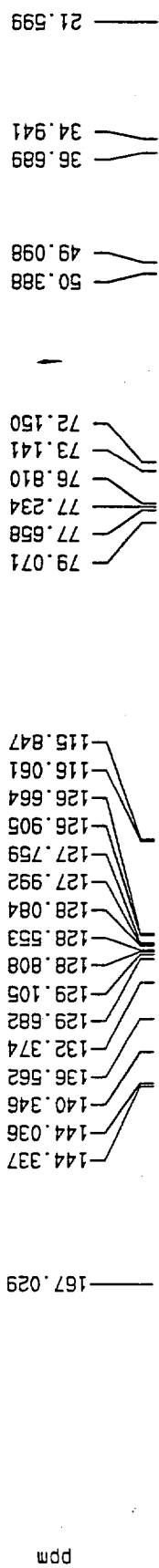
4.83581

7.82930
7.77814
7.49313
7.46941
7.39189
7.36637
7.34444
7.32896
7.30969
7.28437
7.27357
7.22009
7.17737
7.15174
6.97030
6.91937
6.85325
6.80218

ppm



CRH-2-226; Bn-Propargyl 4-Methyl-trans-cinnamide



CRH-2-247

1.58980
1.40205
1.37900
1.34355

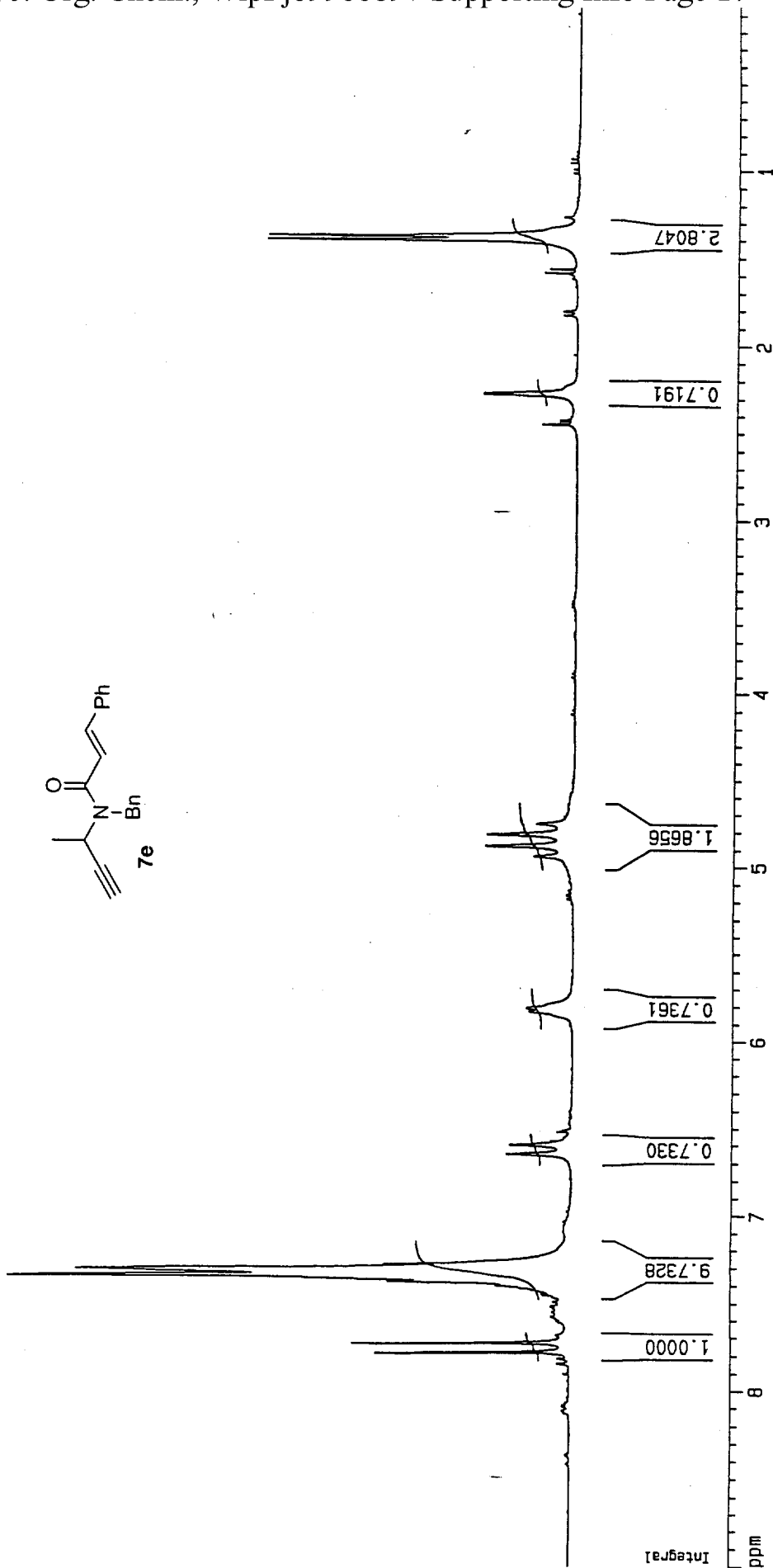
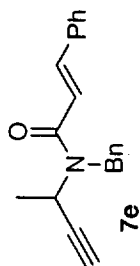
2.45342
2.27816

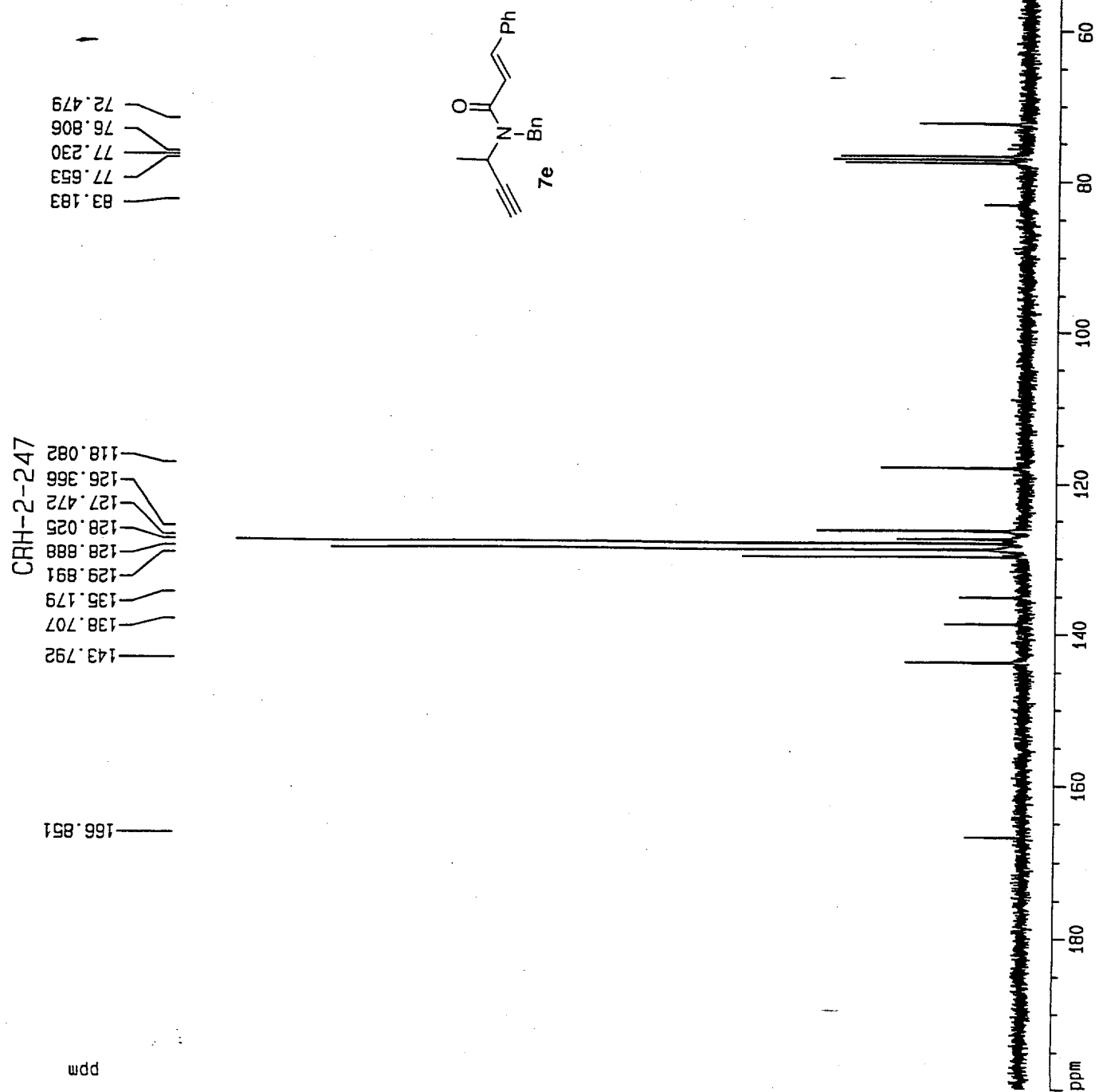
4.94100
4.88149
4.81691
4.75750

5.83227
5.81269

7.78242
7.73127
7.43273
7.42664
7.41430
7.40074
7.37497
7.35353
7.34941
7.31217
7.27199
6.65212
6.60113

ppm





CRH-2-259

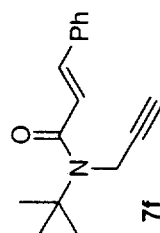
1.50759
1.54821

2.37231

4.13170
4.13972

6.91860
6.96988
7.34176
7.36536
7.49908
7.50423
7.52318
7.53023
7.57143
7.62294

ppm



9.0000

0.9504

2.1312

1.1342

3.8463

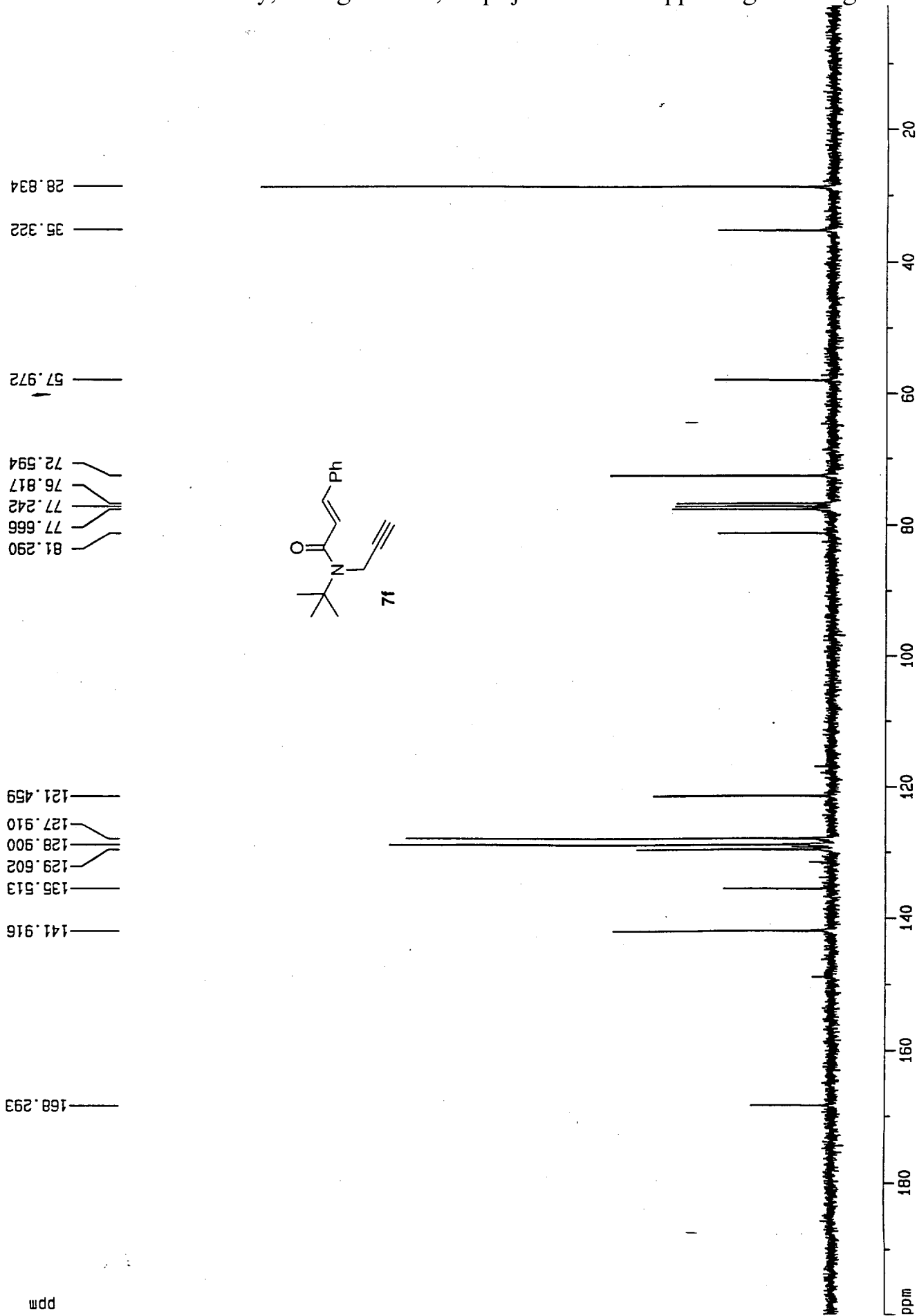
2.4351

1.3802

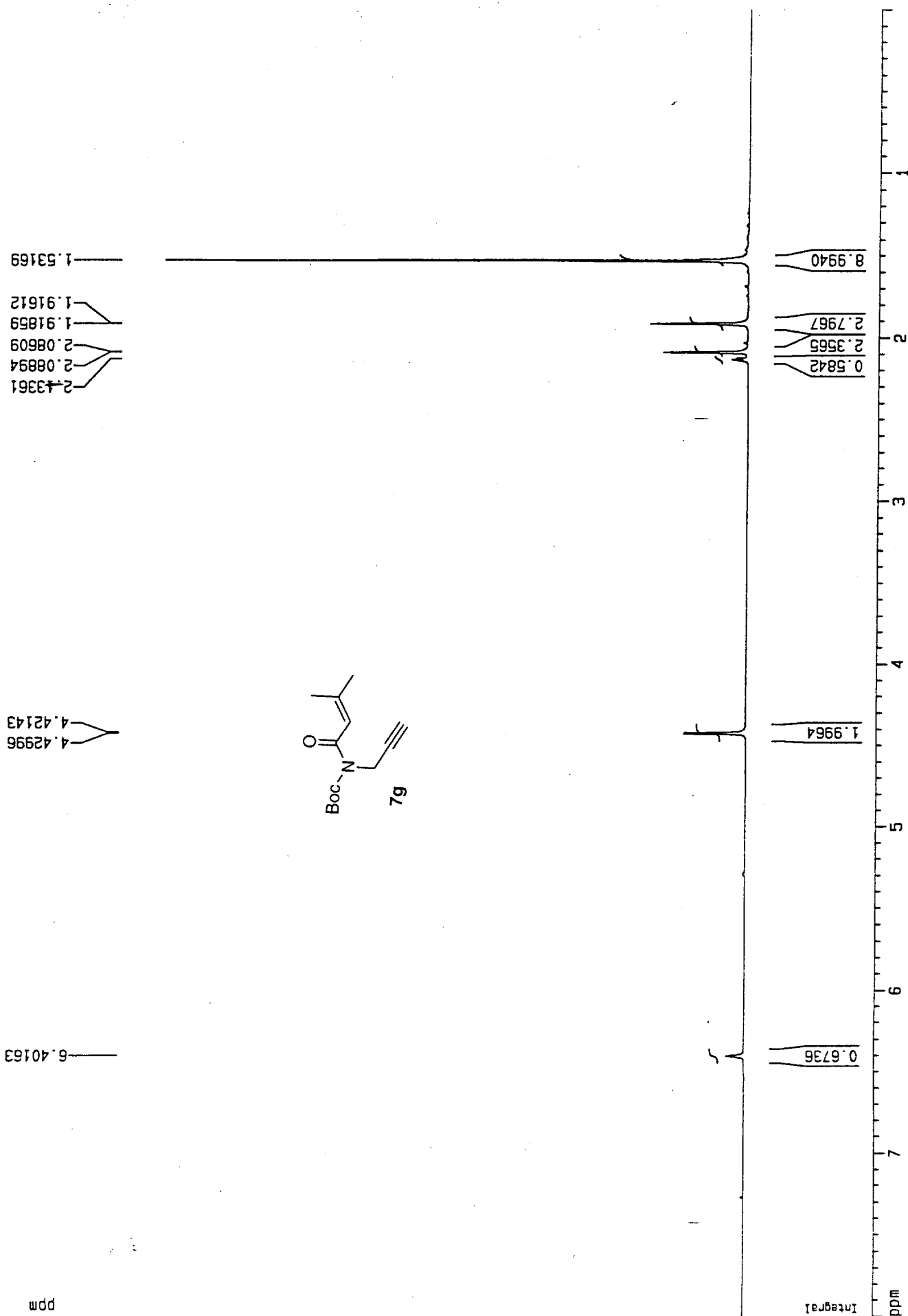
Integral

ppm

CRH-2-259



CRH-3-134; N-Boc amide



CRH-3-134; N-Boc amide

21.088
27.674
28.182
33.672

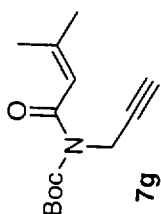
70.168
76.811
77.235
77.658
80.029
83.598

119.786

152.501
153.970

167.844

ppm



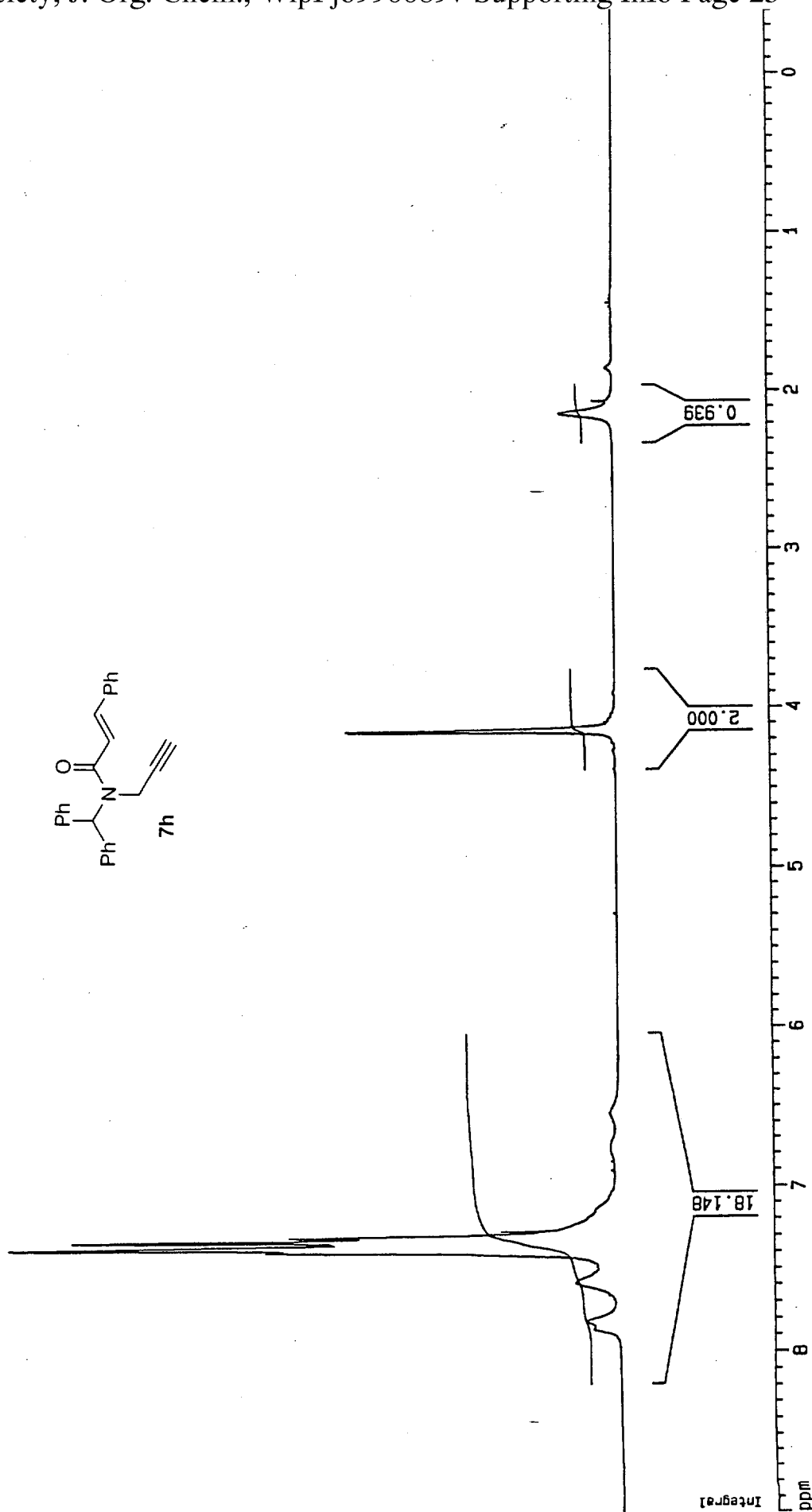
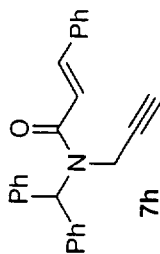
ppm

CRH-2-154; Amide

7.81517
7.58704
7.39266
7.36926
7.34049
7.32700
7.30125
7.27188

4.14974
4.14278

2.14400



CRH-3-153; Fraction #1

ppm

167.133

143.958

138.881

135.239

129.917

128.973

128.903

128.729

128.449

128.091

127.834

127.537

118.088

79.764

77.669

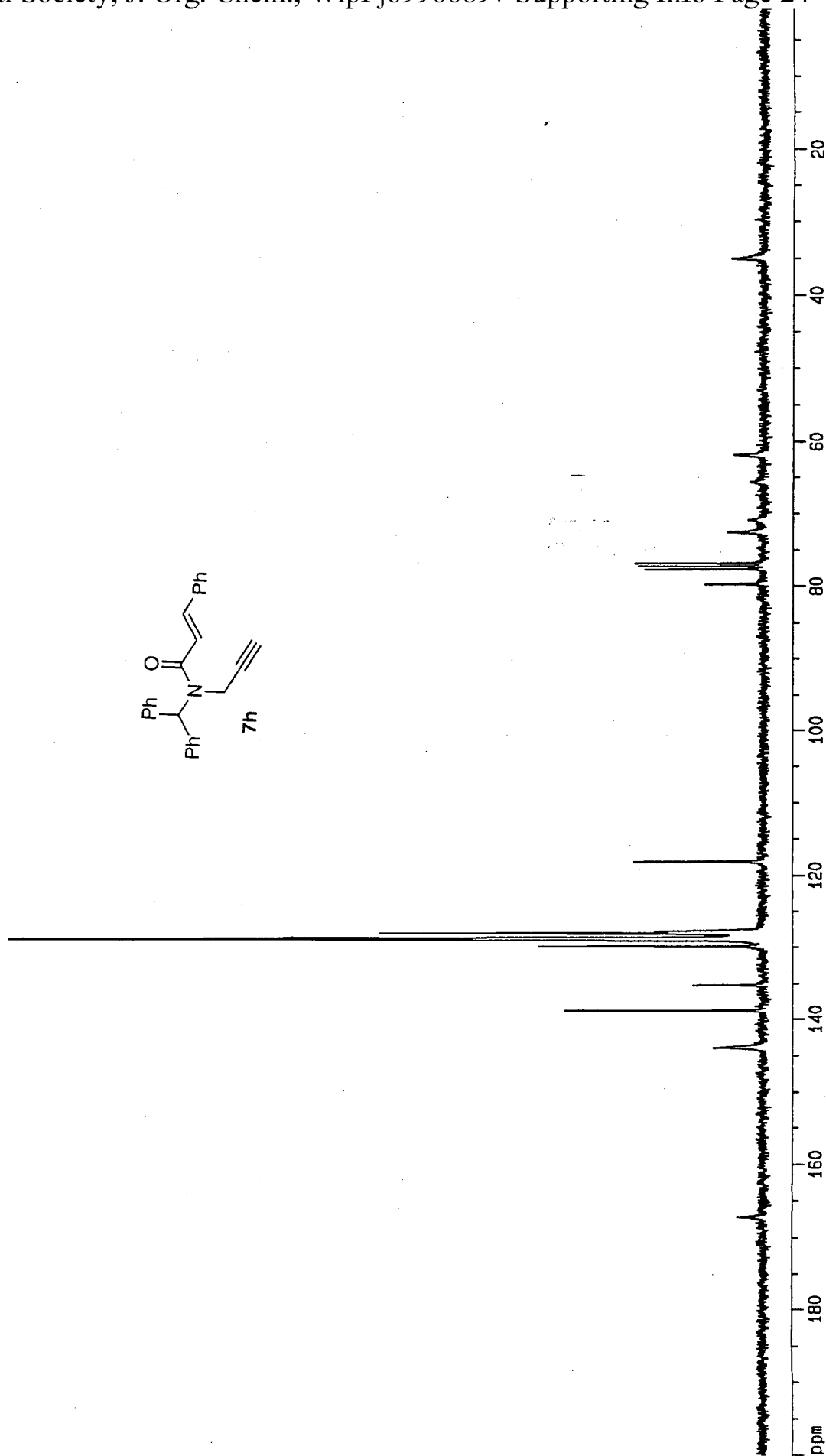
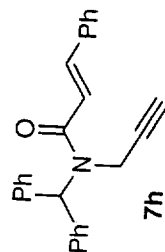
77.244

76.821

72.637

61.923

35.047



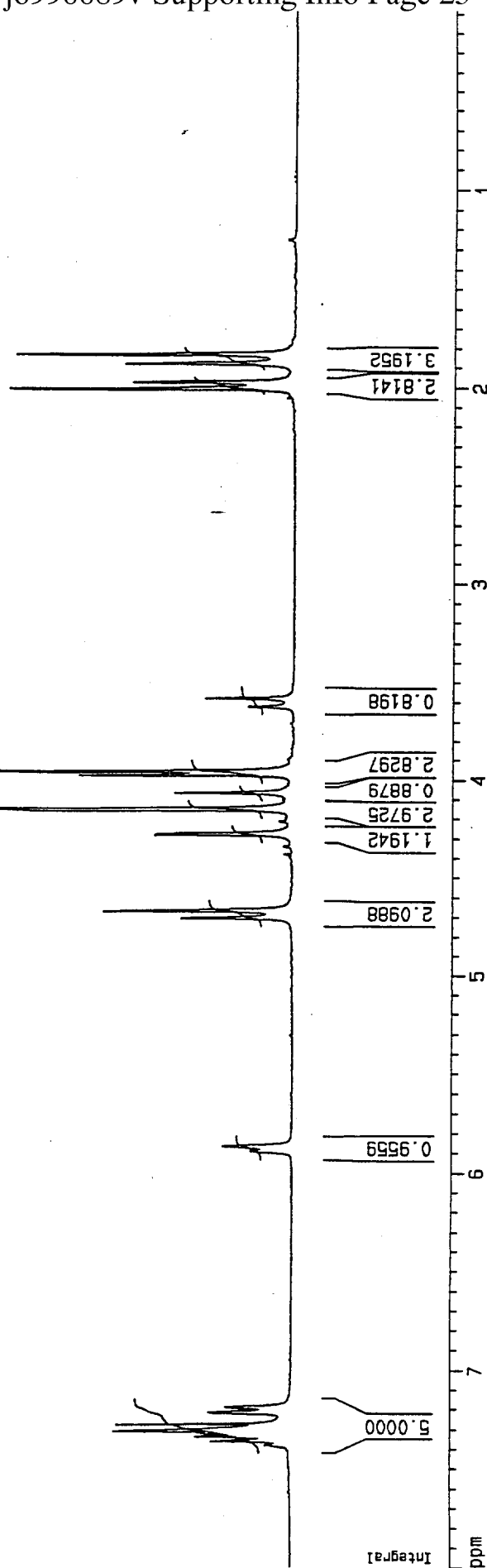
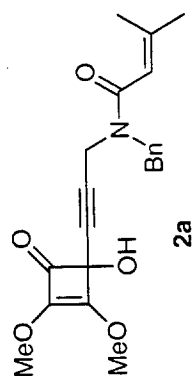
CRH-1-152; Dimethyl squarate + Bn-amide

ppm
7.35940
7.33454
7.31733
7.30292
7.27033
7.21491
7.19157

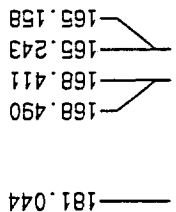
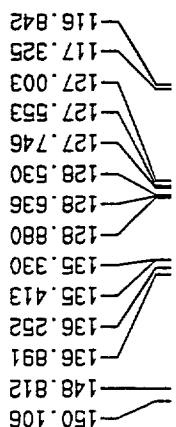
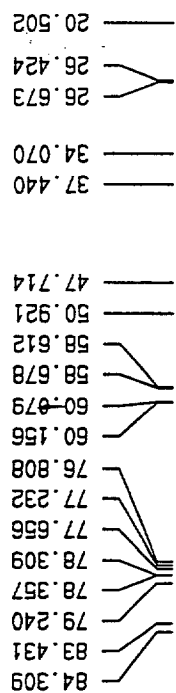
5.89496
5.87133

4.70702
4.66863
4.28126
4.27570
4.15500
4.14752
4.06638
3.97458
3.95627
3.62615
3.58347

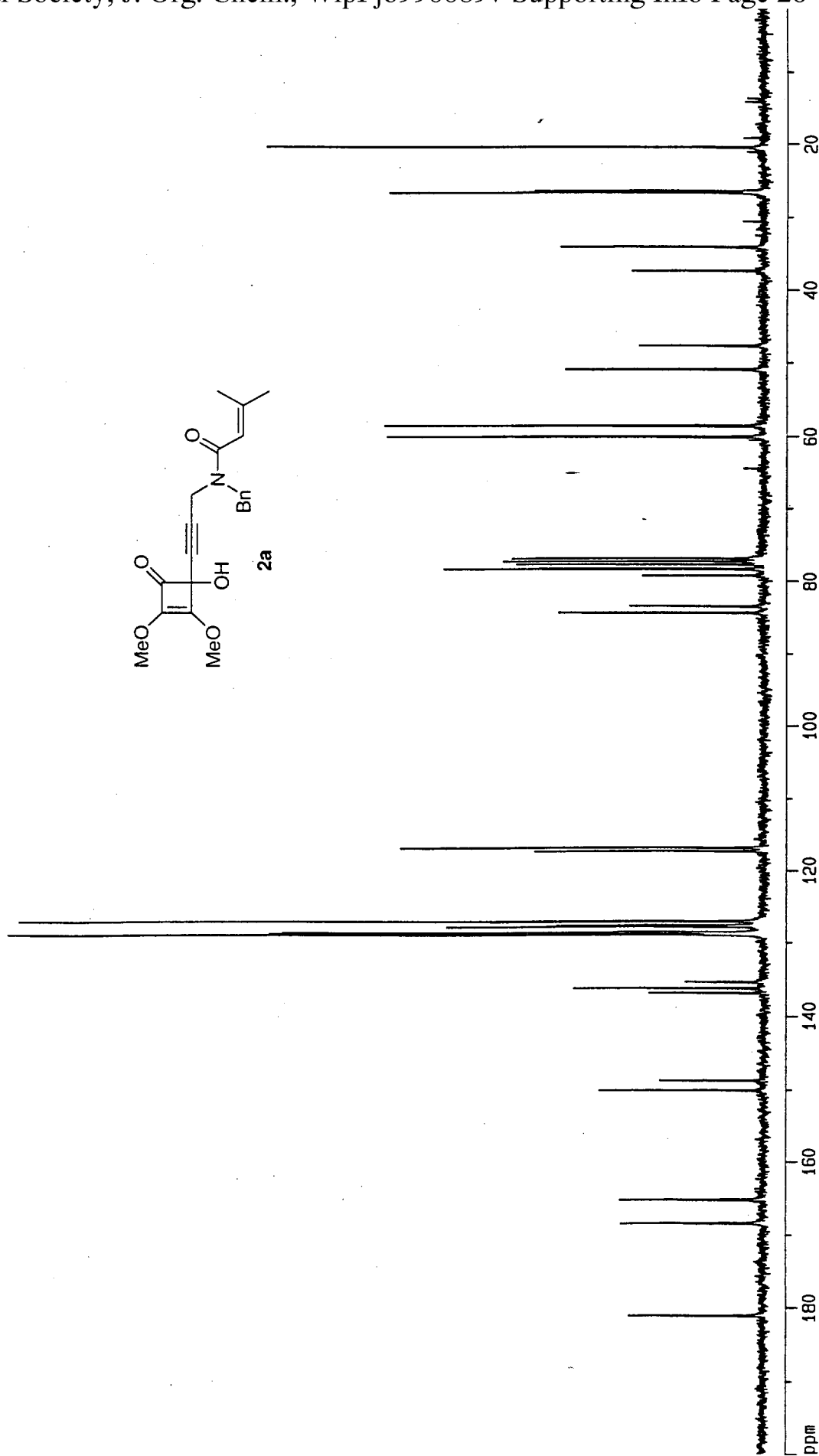
2.00717
1.97528
1.88183
1.83293



Dimethyl squarate + Bn-amide



ppm



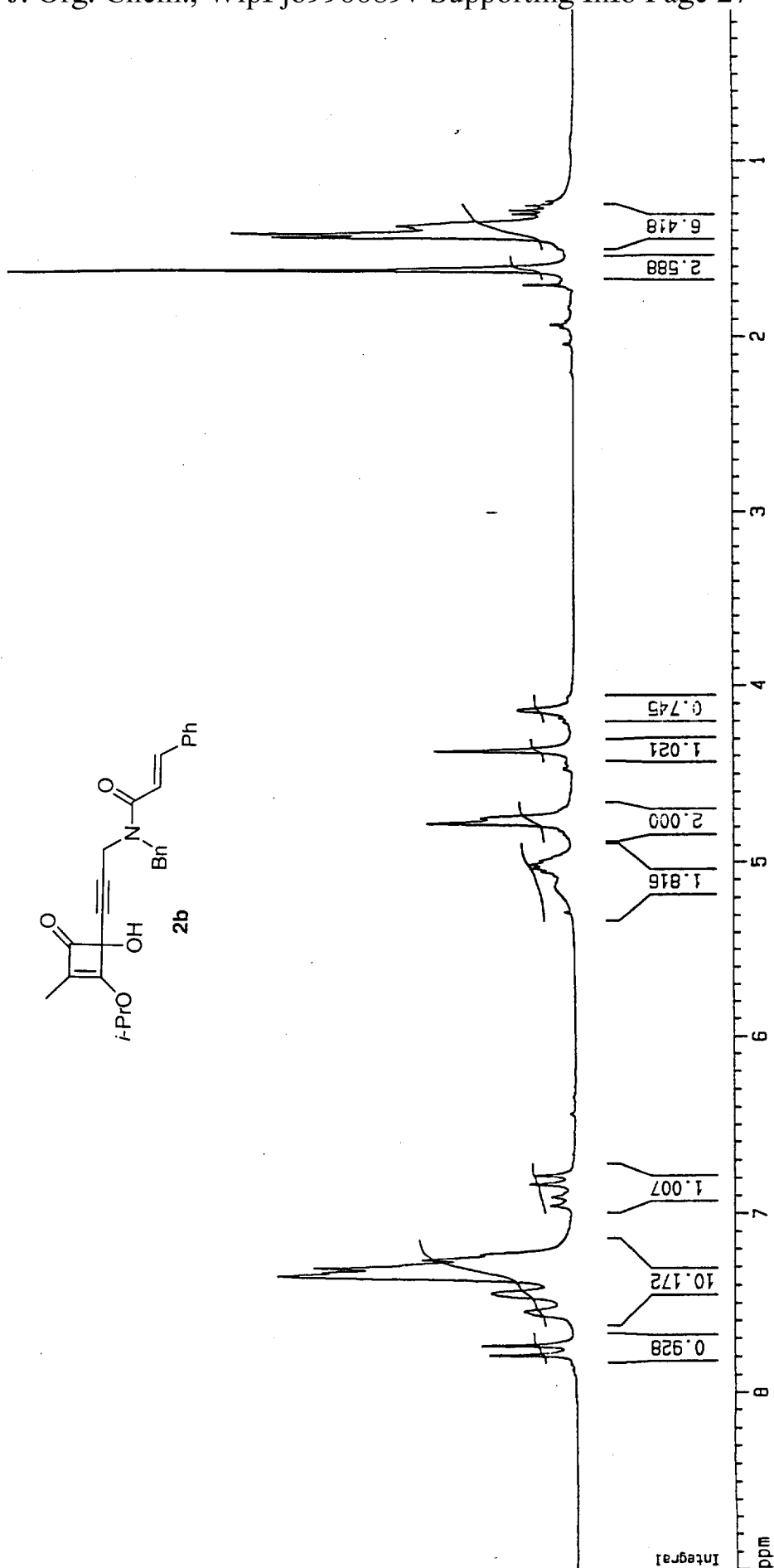
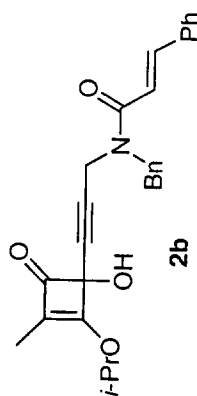
CAH-2-229; Cyclization precursor

1.70645
1.61946
1.43606
1.41624
1.38669
1.37171
1.30513
1.28461
1.25550

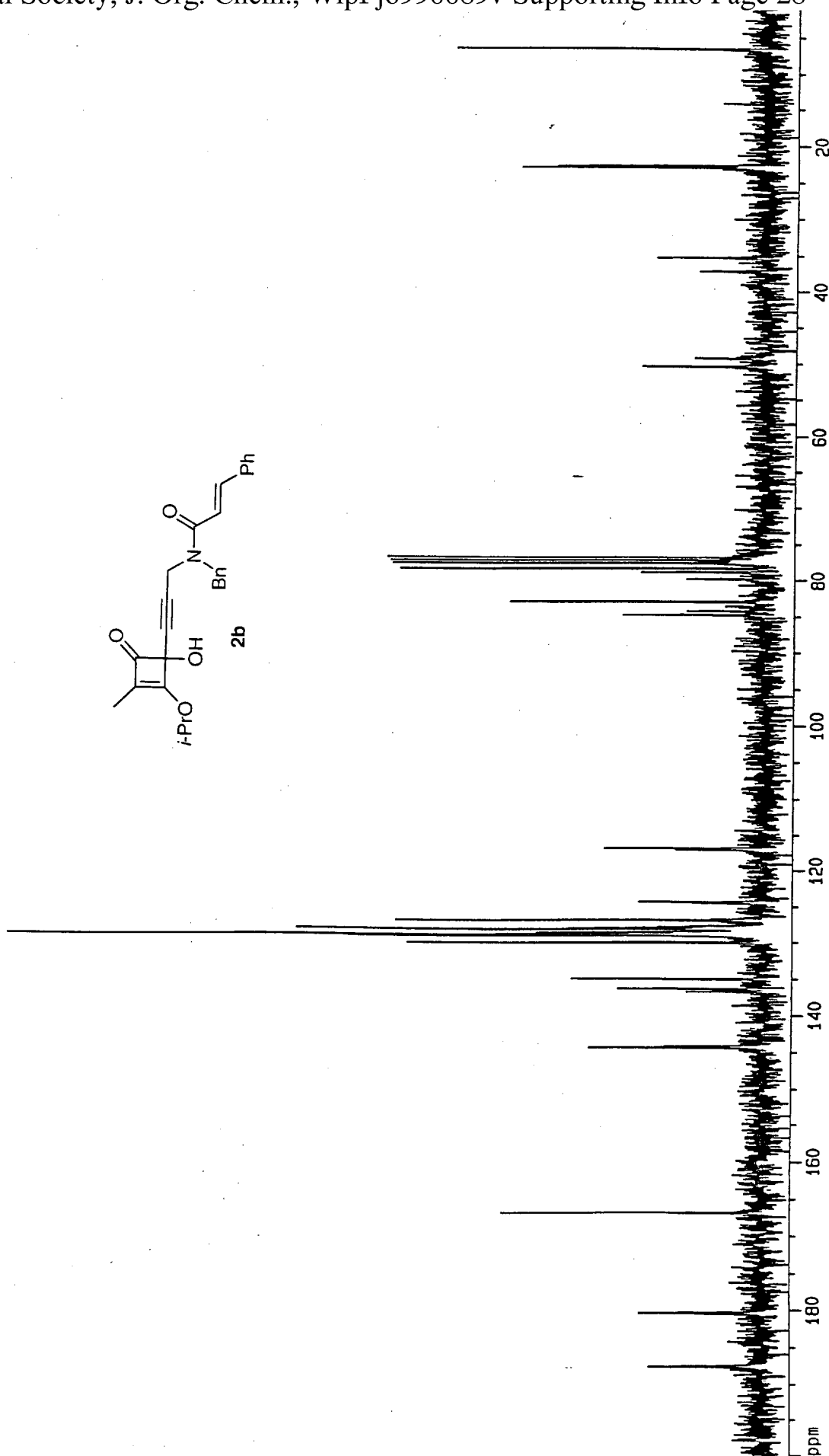
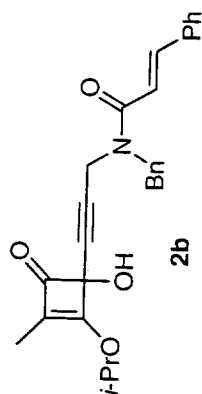
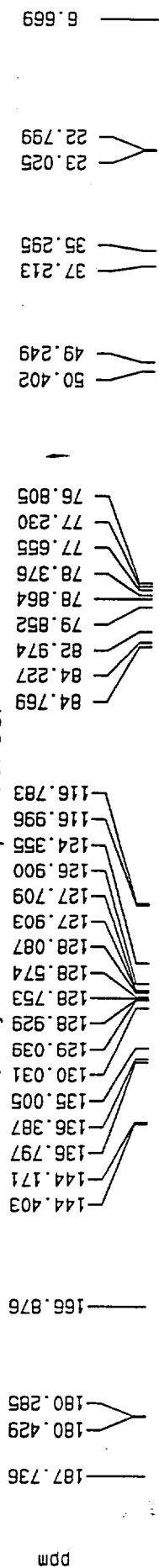
5.03348
5.01285
4.77788
4.75096
4.36991
4.13490

7.78854
7.73733
7.54698
7.44204
7.34050
7.31913
7.29429
7.25227
7.22841
6.83651
6.78537

ppm



CRH-2-229; Cyclization precursor



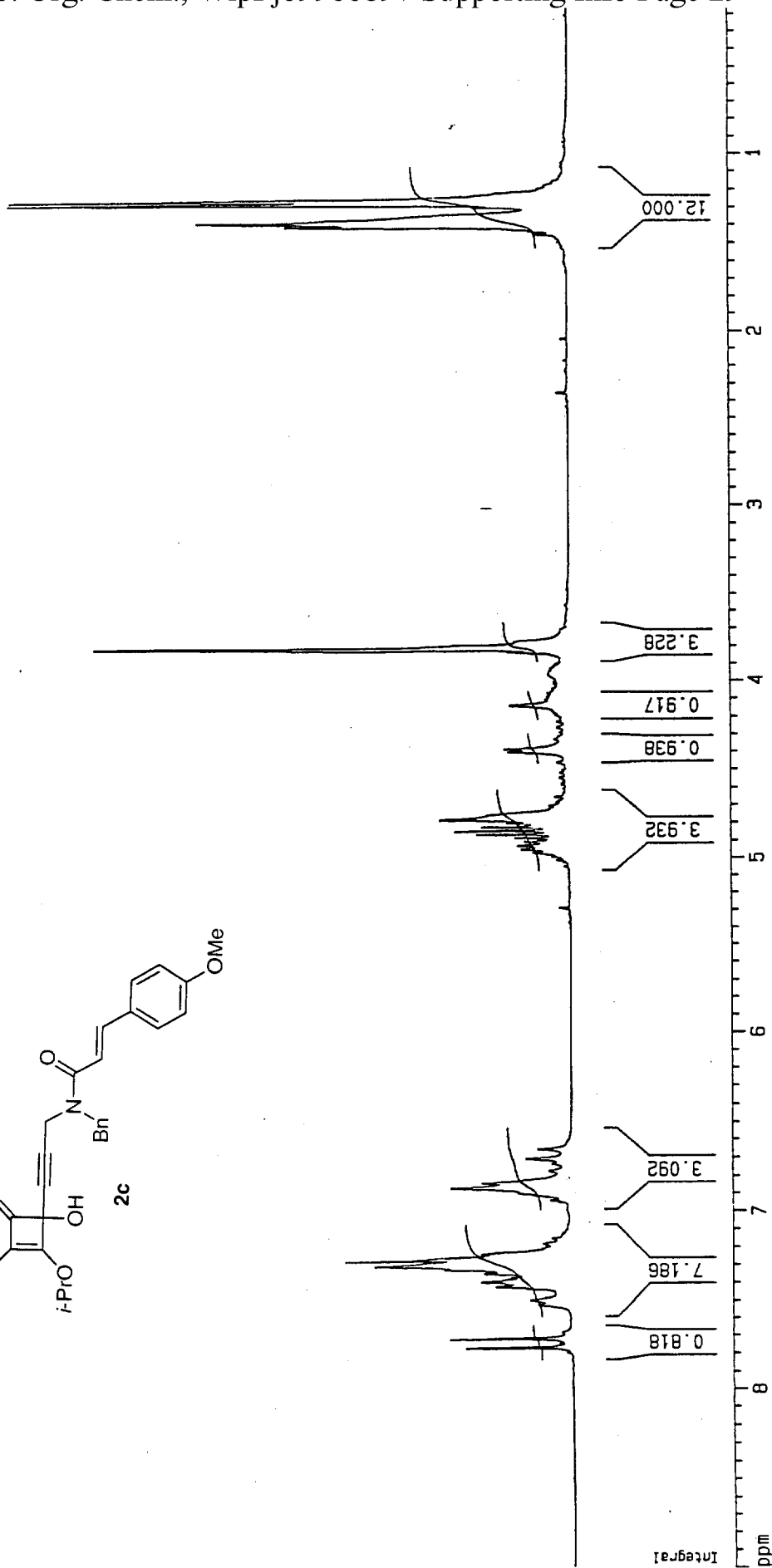
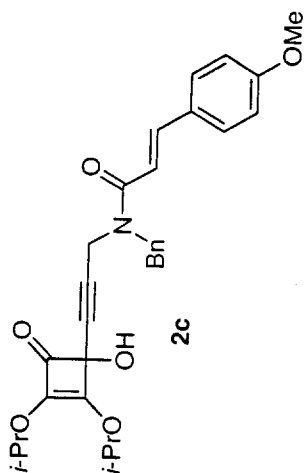
CRH-2-233; 4-Methoxycinnamide cycl. prec.

1.41693
1.39717
1.38212
1.31225
1.29281
1.27258

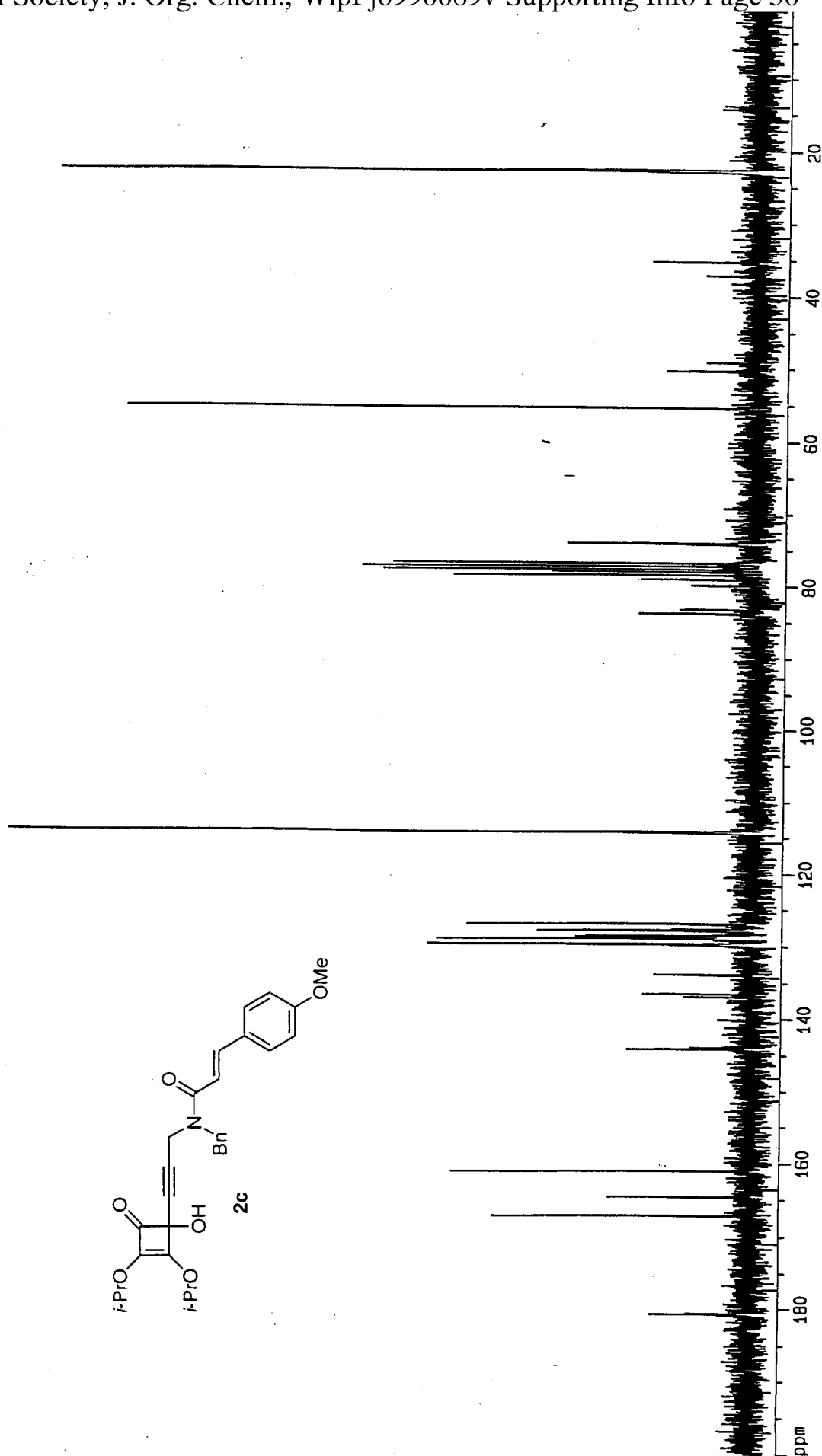
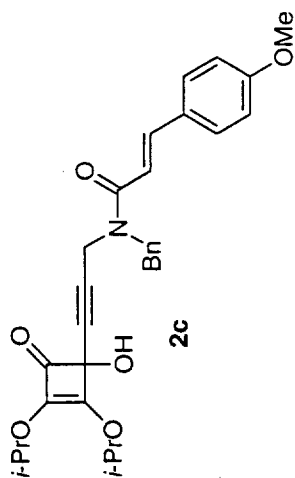
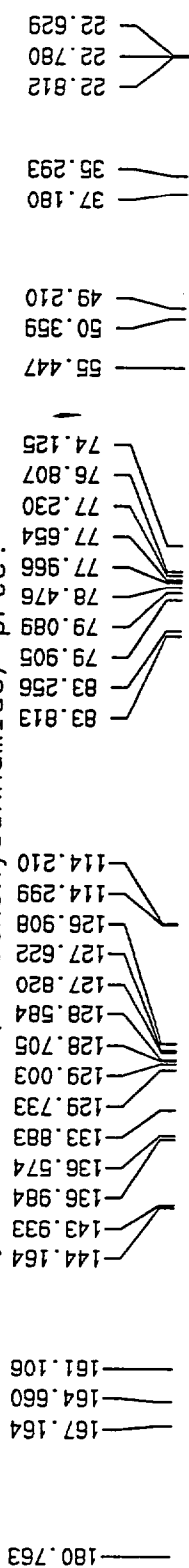
3.78141
3.80113
3.81376
3.83900
4.14236
4.39092
4.40753
4.76167
4.78463
4.80712
4.82775
4.84844
4.86877
4.88912

7.77236
7.72136
7.42488
7.39732
7.38721
7.37523
7.35196
7.32622
7.30224
7.27178
7.26705
7.23994
6.90063
6.87226
6.85683
6.84376

ppm



CRH-2-233; Cyclization (4-methoxycinnamide) prec.



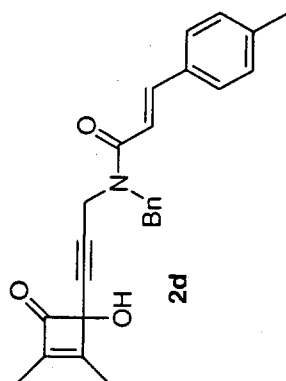
CRH-2-235

2.38247
2.30686
2.23912
2.17700
2.12564
2.05912
2.02079
1.73194
1.67019

4.78520
4.72695
4.46634
4.41917
4.40129
4.17381

7.79823
7.74712
7.44150
7.36597
7.34822
7.31973
7.27367
7.17224
7.14988
6.88642
6.83472
6.80092
6.74508

ppm



3.292
3.910
2.836

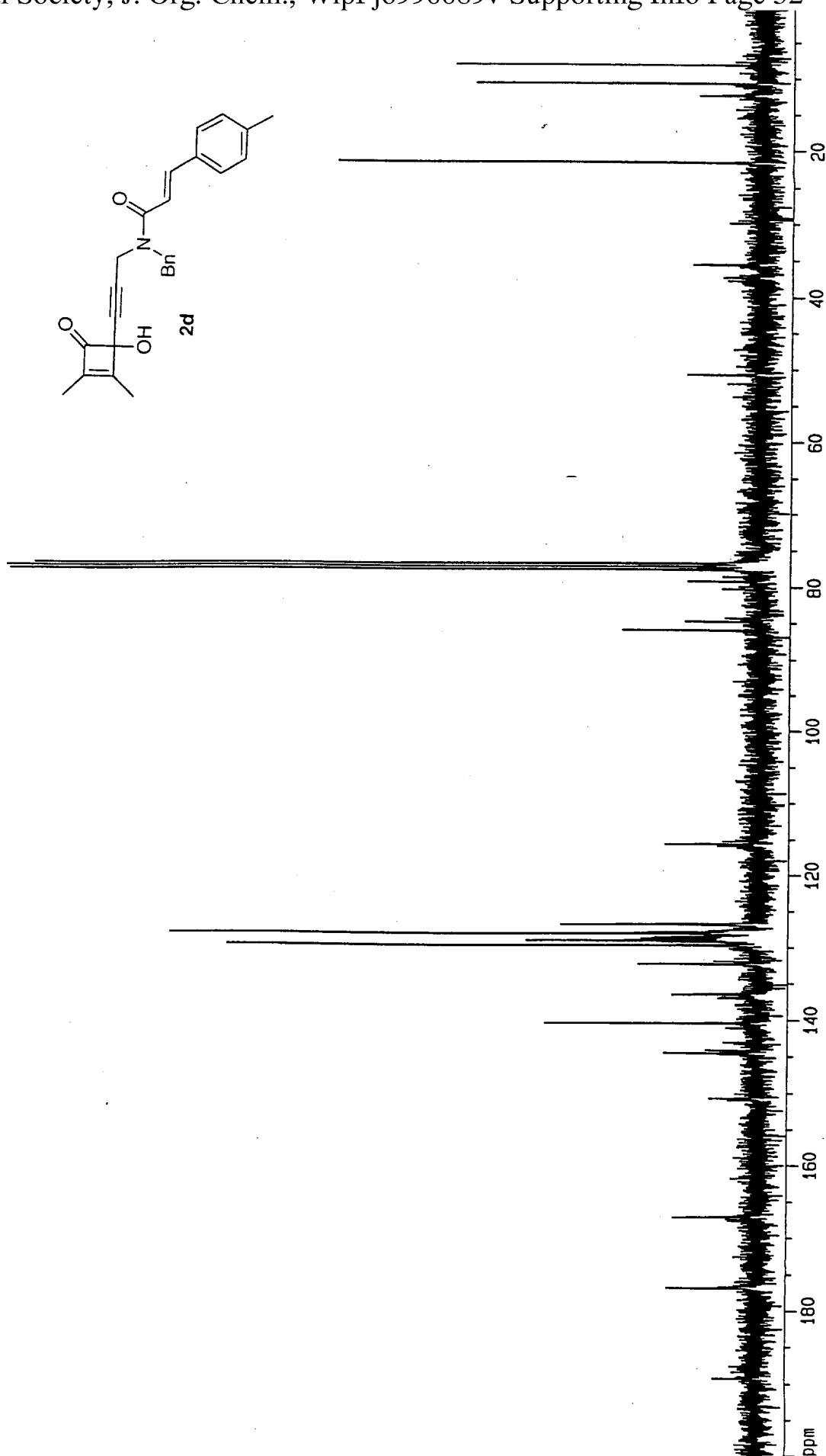
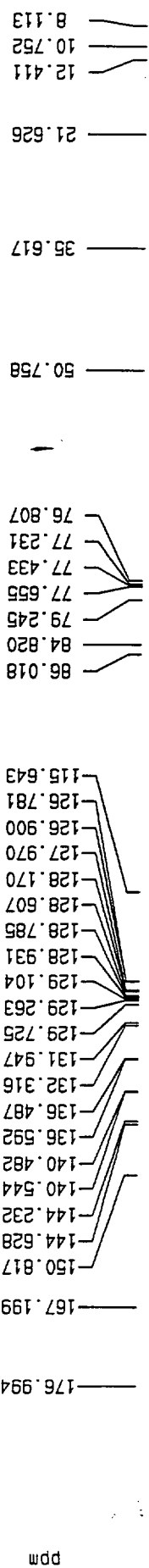
1.944
2.102

1.000
10.373
1.153

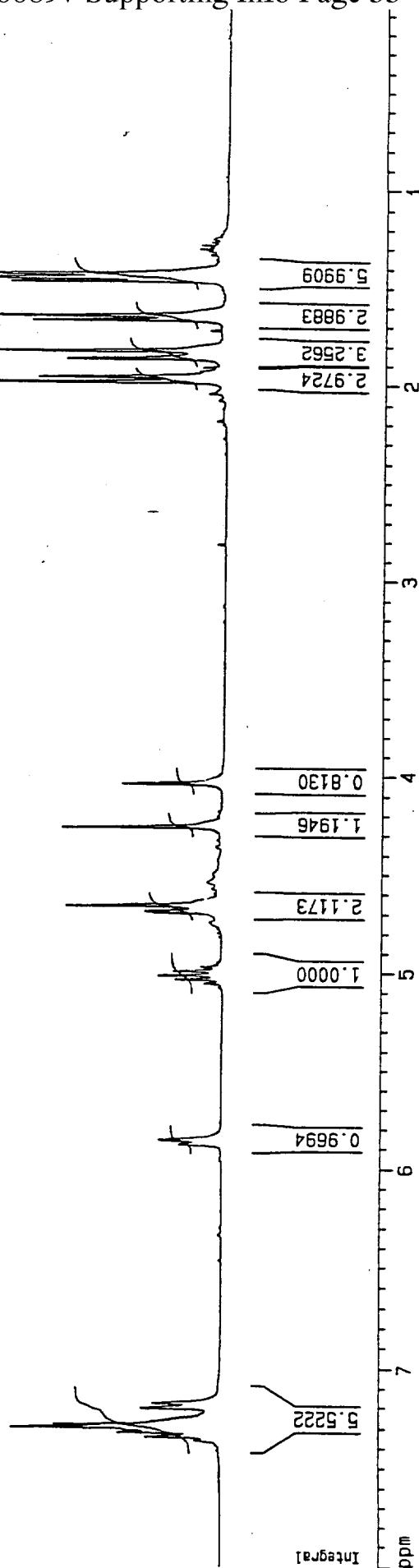
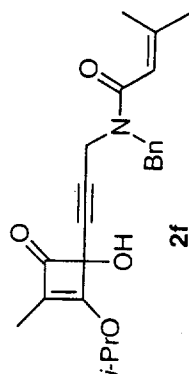
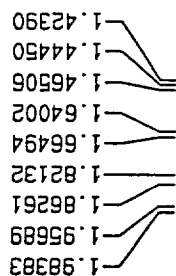
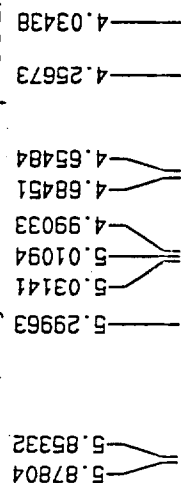
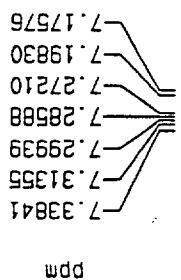
Integral

ppm

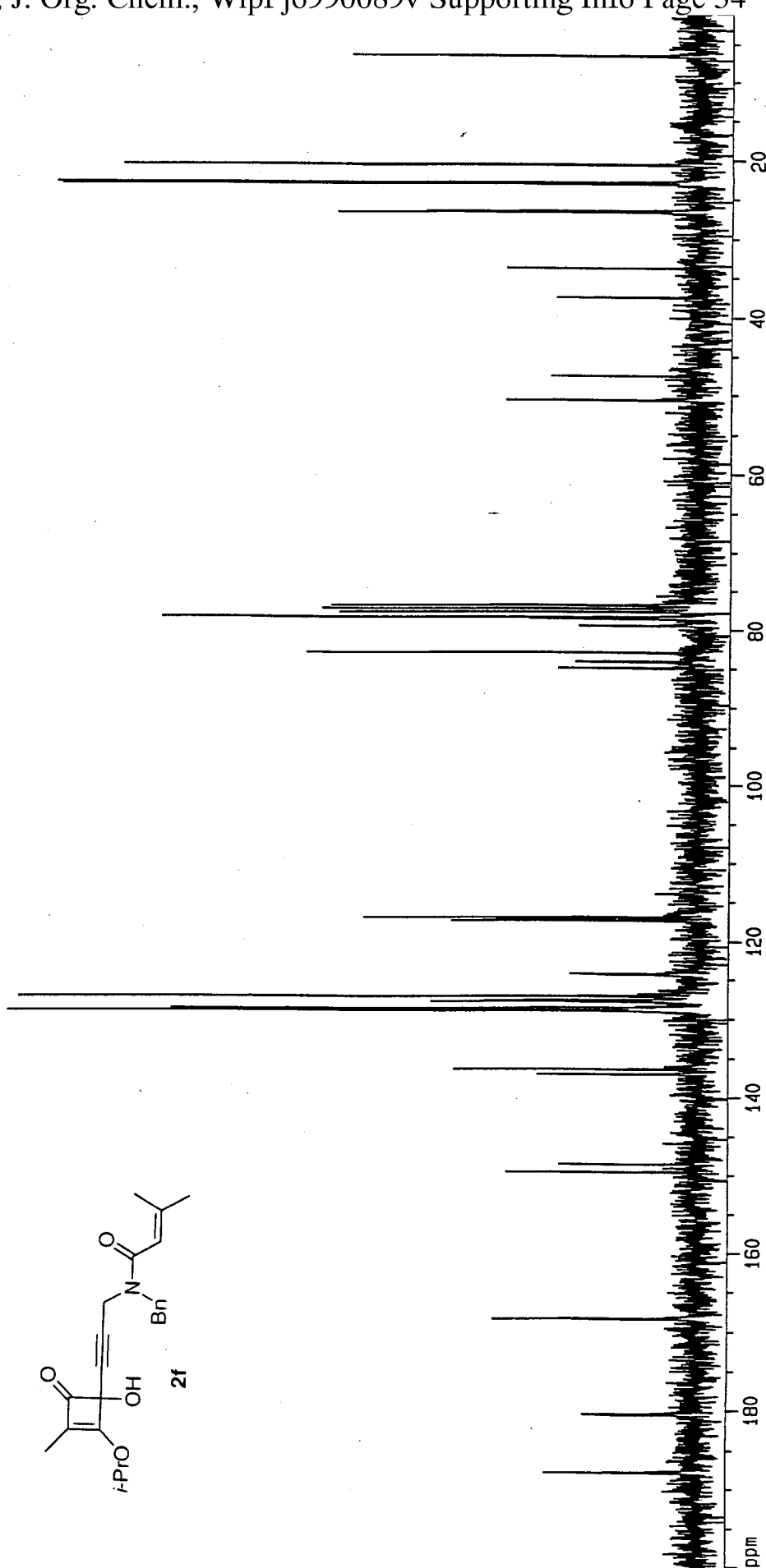
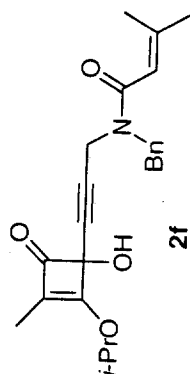
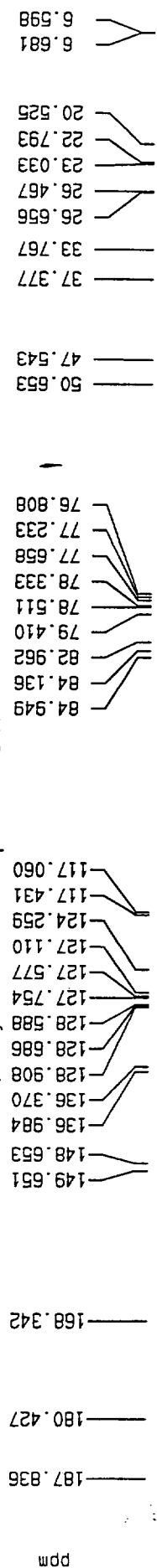
CRH-2-235



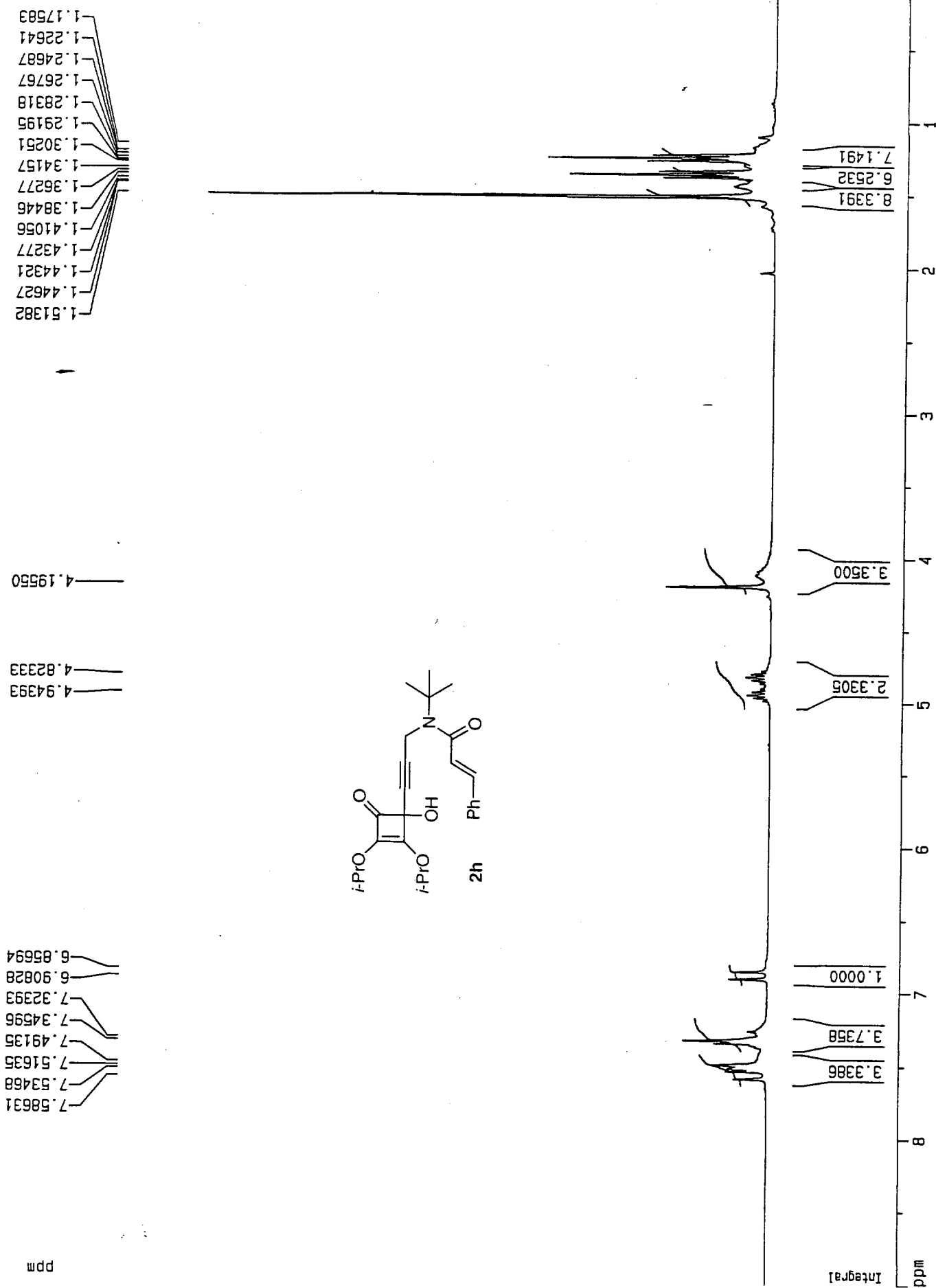
CRH-2-227; Cyclization precursor



CRH-2-227; Cyclization precursor



CRH-2-260; Cyclization precursor



CRH-2-260; Cyclization precursor

35.801
28.898
22.774
22.735
22.594

58.019

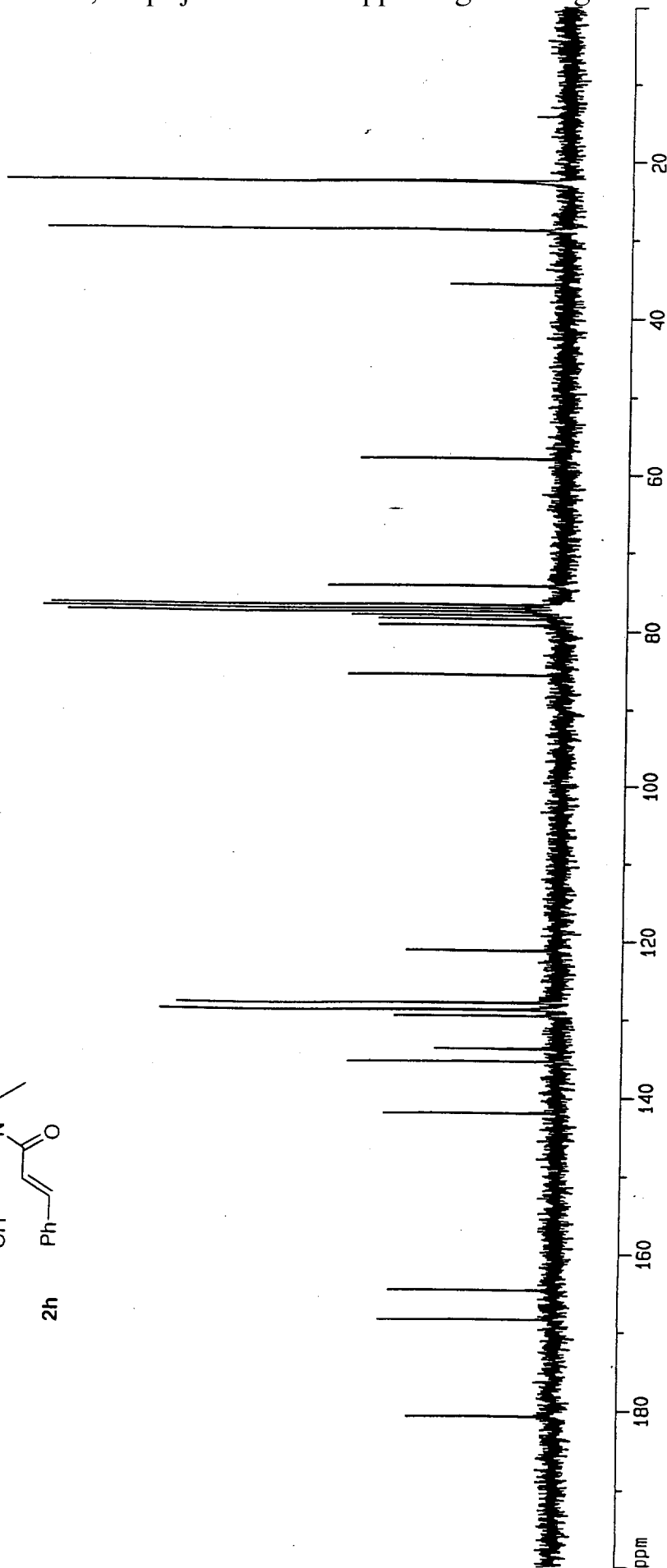
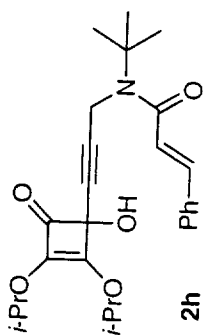
85.690
79.359
78.593
78.097
77.649
77.225
76.801
74.282

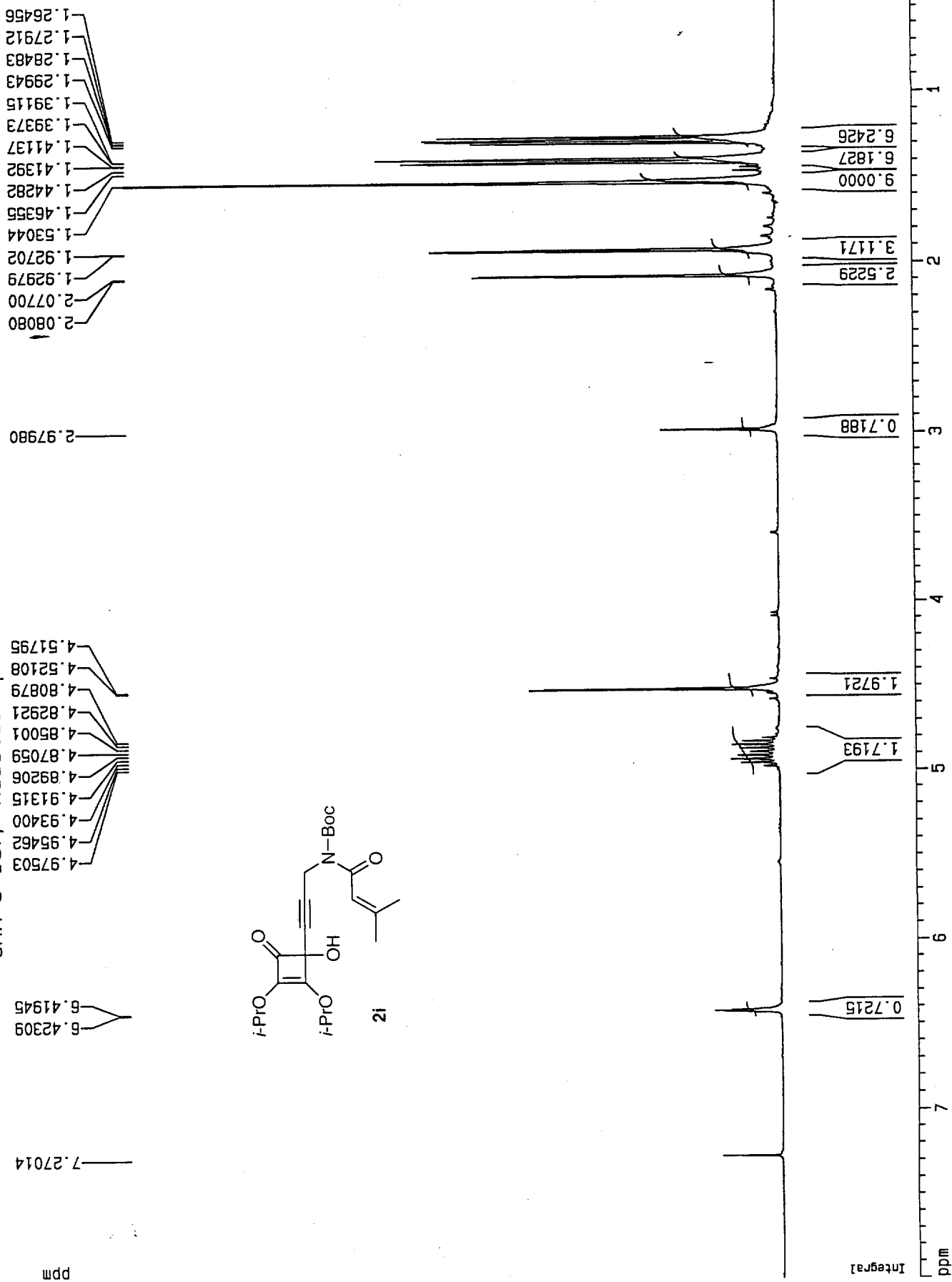
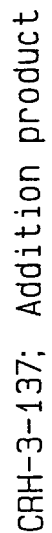
142.061
135.443
133.835
129.617
128.894
127.996
121.325

168.430
164.666

180.750

ppm





CRH-3-137; Addition product

33.711
28.052
27.572
22.736
22.658
22.526
20.997

85.169
83.596
78.602
77.841
77.514
77.090
76.666
76.432
74.144

119.605

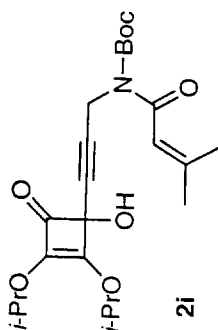
153.979

163.893

167.609

179.894

ppm



ppm

CRH-3-155

1.86629
1.47453
1.45360
1.37684
1.28689
1.26805

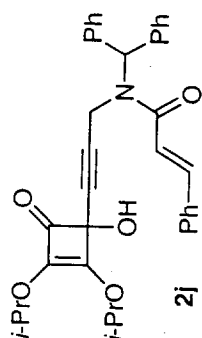
2.62391

4.20705

4.81939

7.55883
7.35575
7.30272
7.29712
7.27614
7.27215
7.07968
7.07545
7.02485

ppm



Integral

15.790

1.366

2.033

0.728

12.000

ppm

CRH-3-155; Addition product

22.713
22.615
22.457

35.446

60.506
61.702
74.075
76.750
77.174
77.598
77.803
78.341
79.312
84.450

117.781
127.689
128.144
128.677
128.867
128.928
129.087
129.917
133.881
135.093
138.626
143.808
144.260

164.072
167.086

180.000

ppm

