

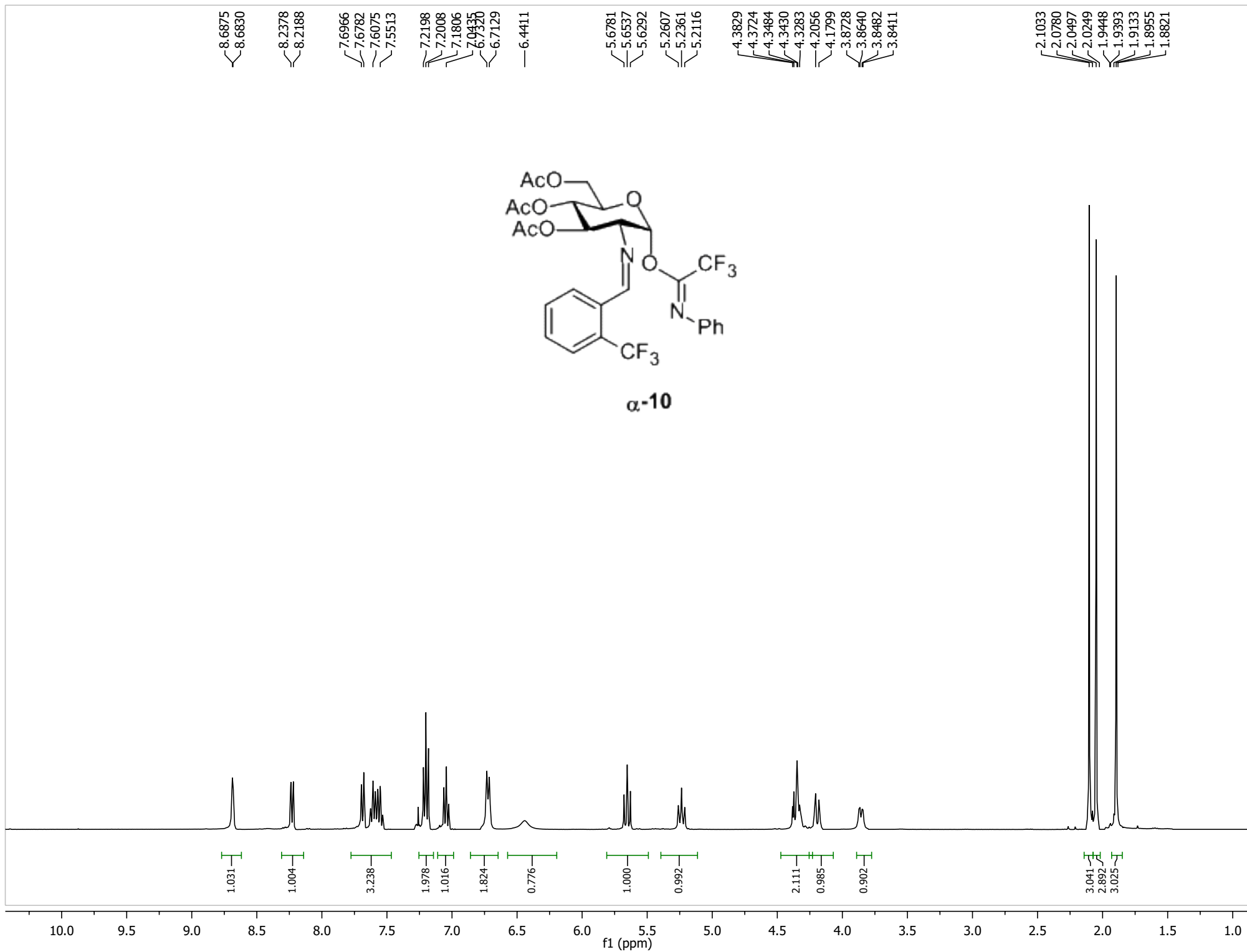
Studies on the Selectivity Between Nickel-Catalyzed
1,2-*Cis*-2-Amino Glycosylation of Hydroxyl Groups of
Thioglycoside Acceptors with C(2)-Substituted
Benzylidene *N*-Phenyl Trifluoroacetimidates and
Intermolecular Aglycon Transfer of the Sulfide Group

*Fei Yu and Hien M. Nguyen**

Department of Chemistry, University of Iowa, Iowa City, IA 52242

SPECTRAL DATA

<i>N</i>-Phenyl Trifluoroacetimidates	Page 2 – 34
C(2)-<i>N</i>-Substituted Benzylideneamino Disaccharides and Aglycon Transfer Thioglycosides	Page 35 – 103
C(2)-<i>N</i>-Substituted Benzylideneamino Trisaccharides and Aglycon Transfer Thioglycosides	Page 104 – 109
C(2)-<i>N</i>-Acetyl Trisaccharides	Page 110 – 111
C(2)-Azido Disaccharides and Aglycon Transfer Thioglycosides	Page 112 – 117



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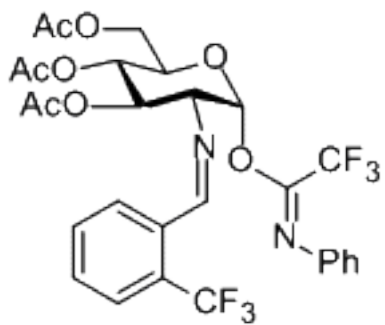
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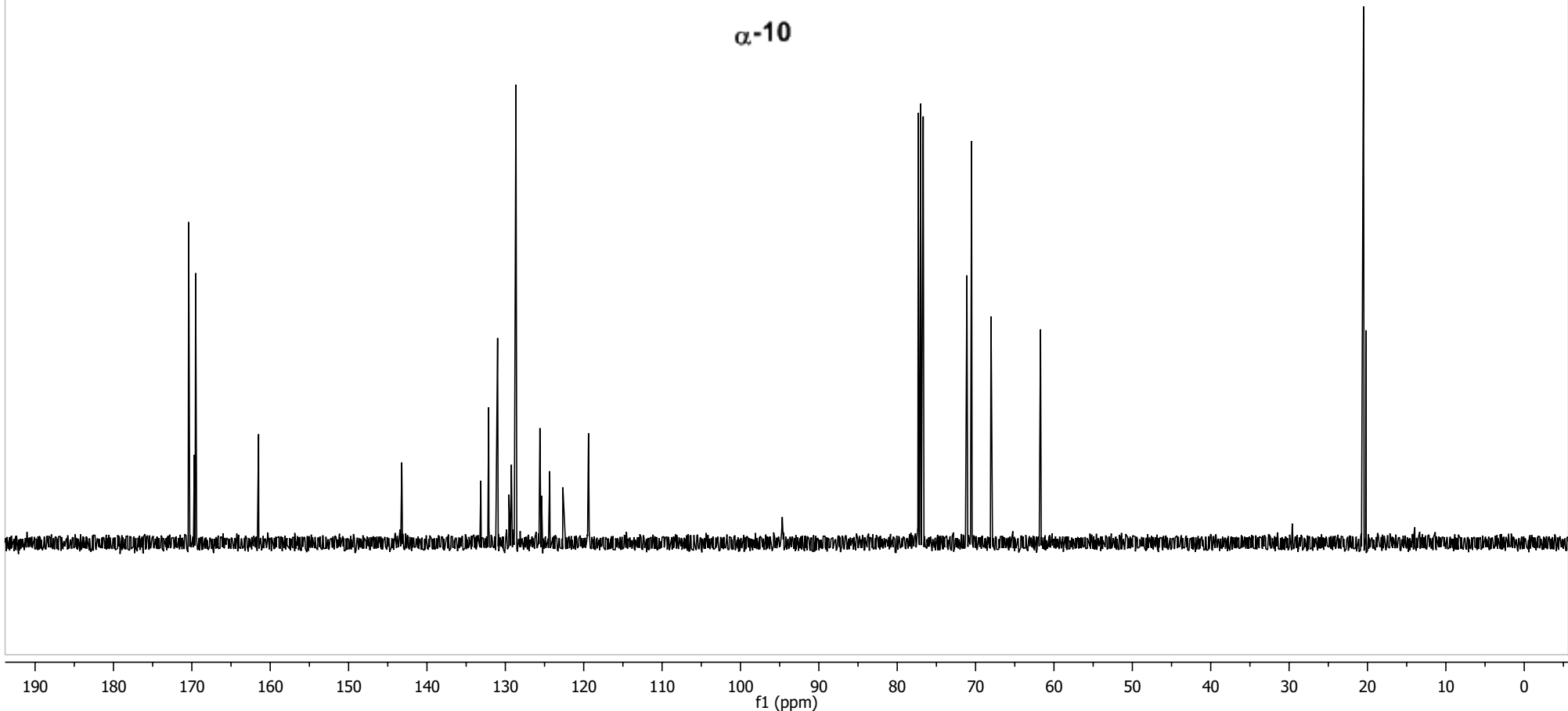
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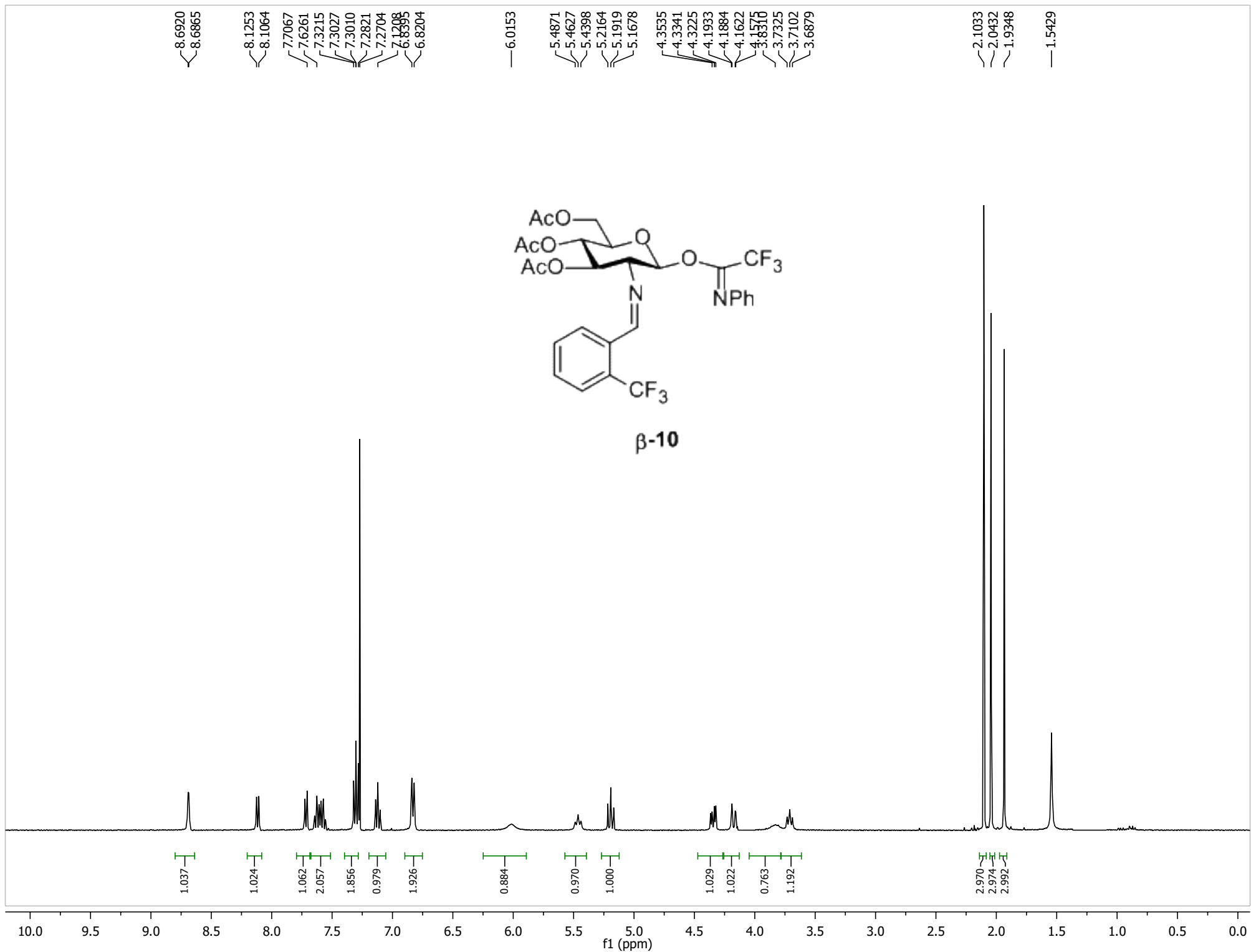
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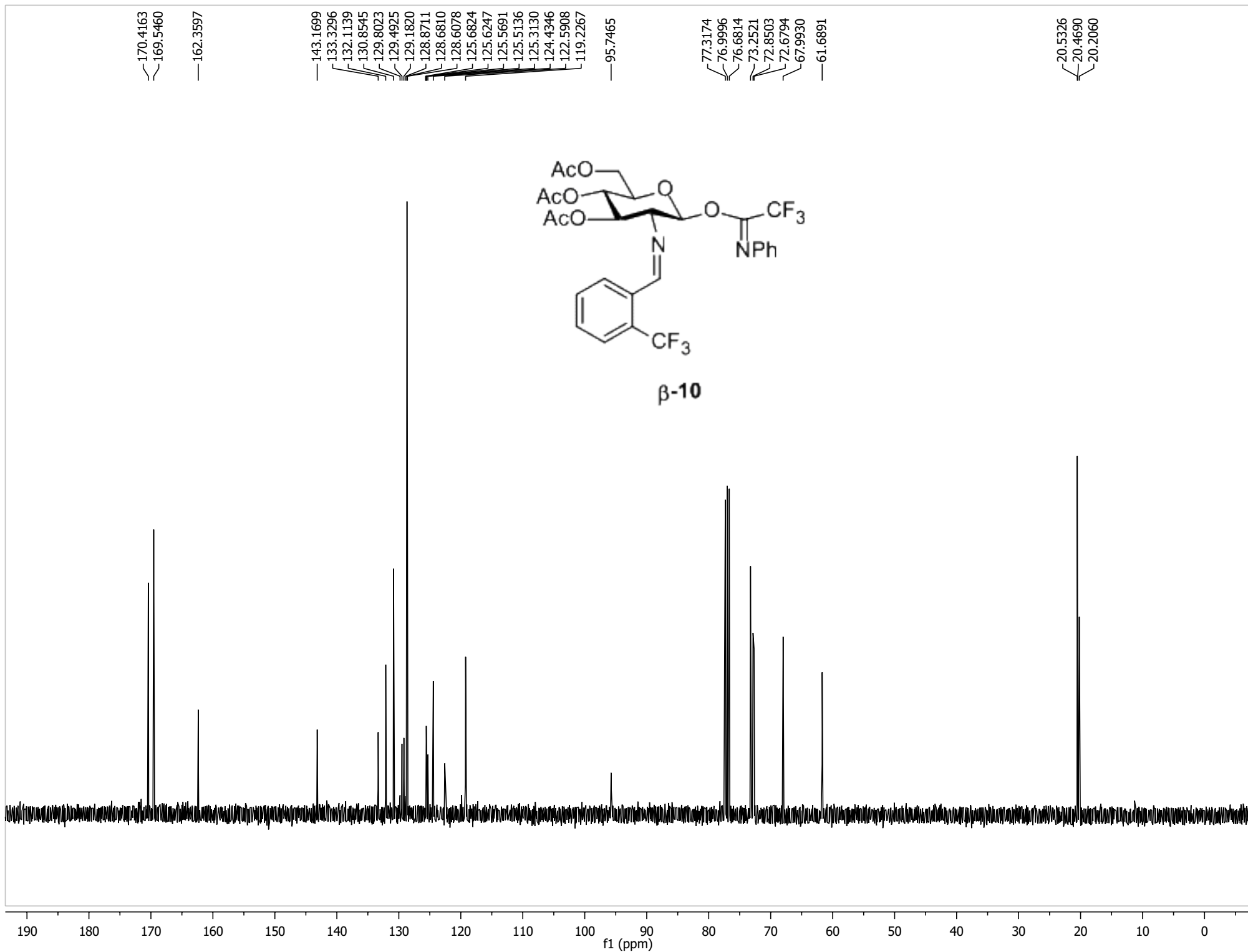
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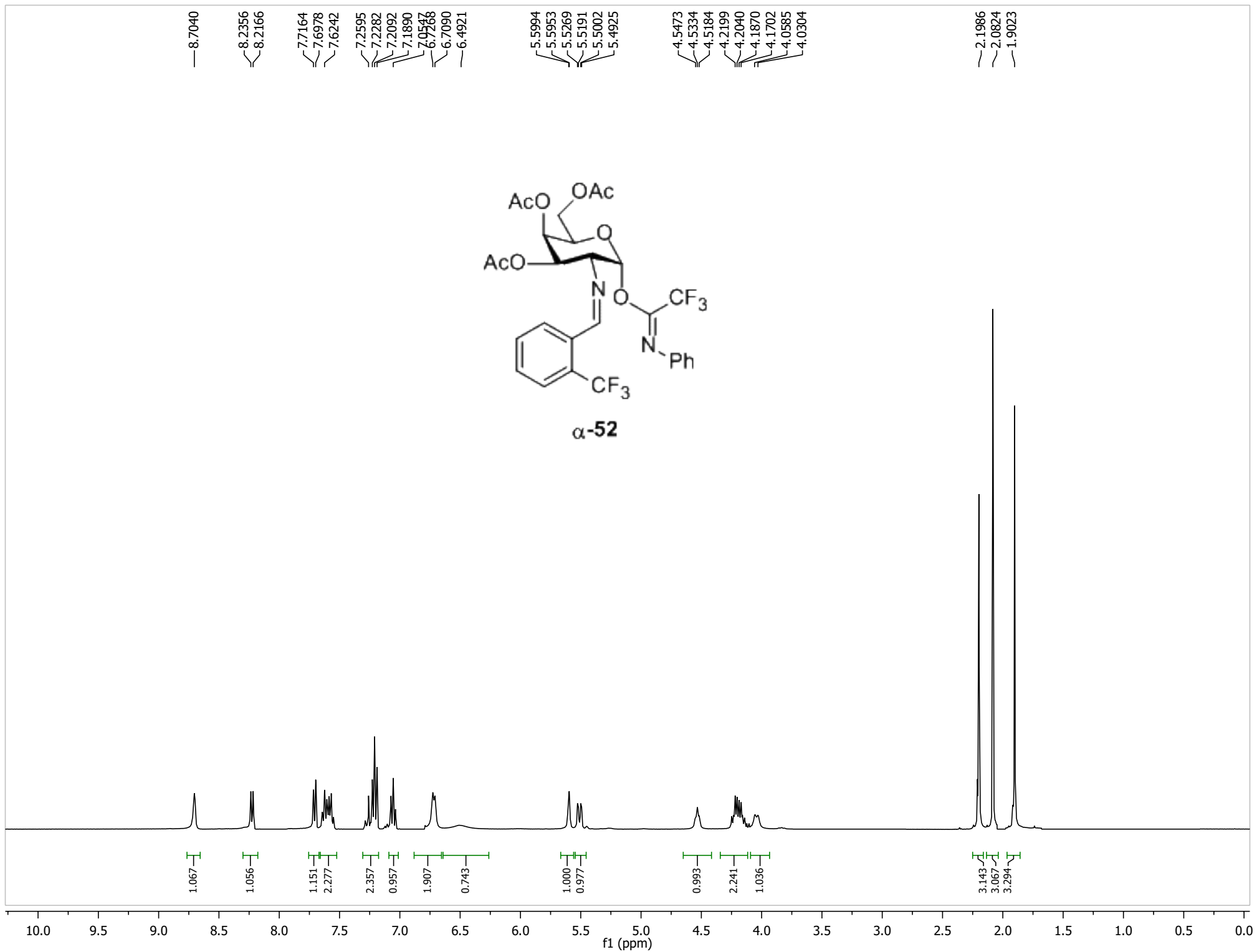


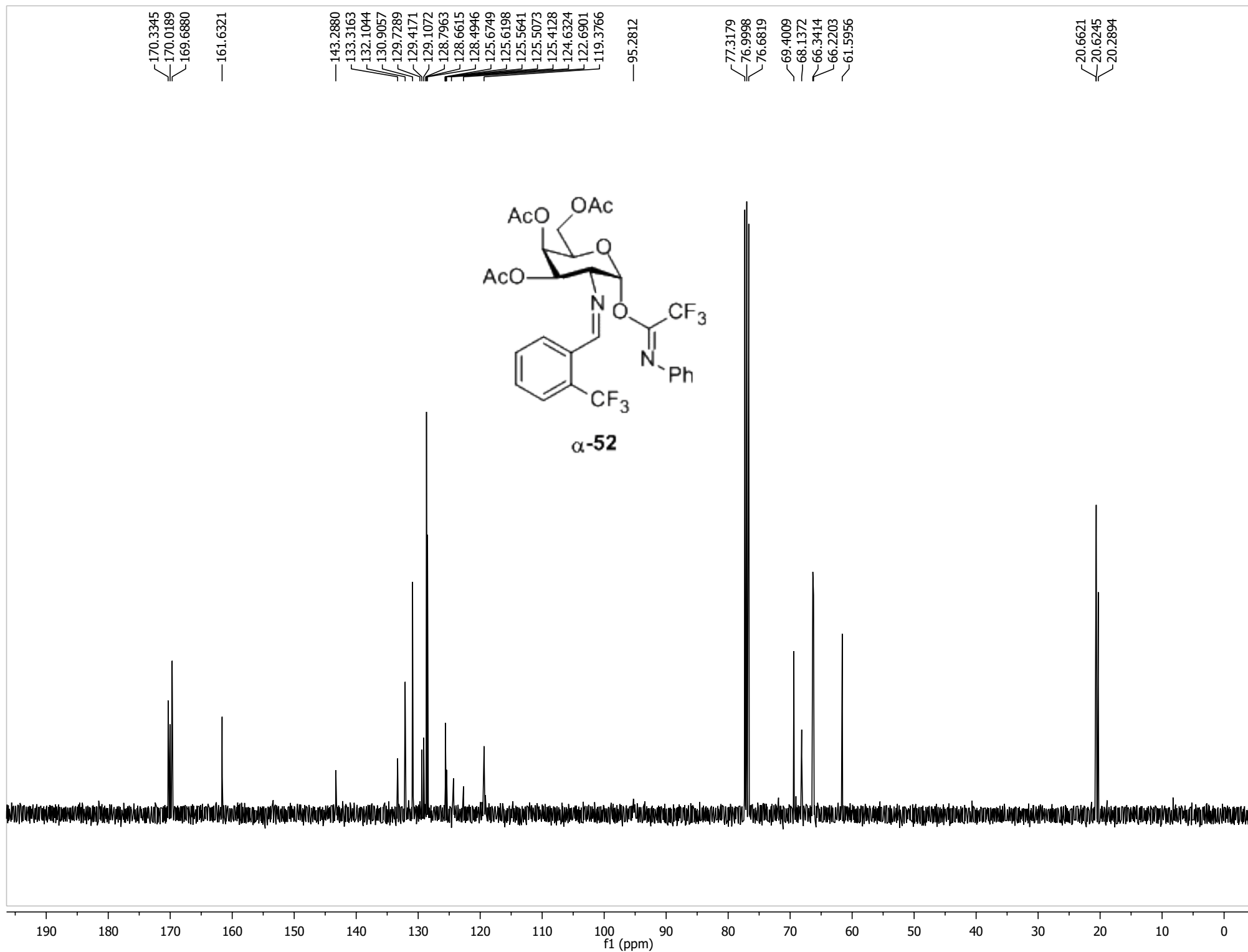
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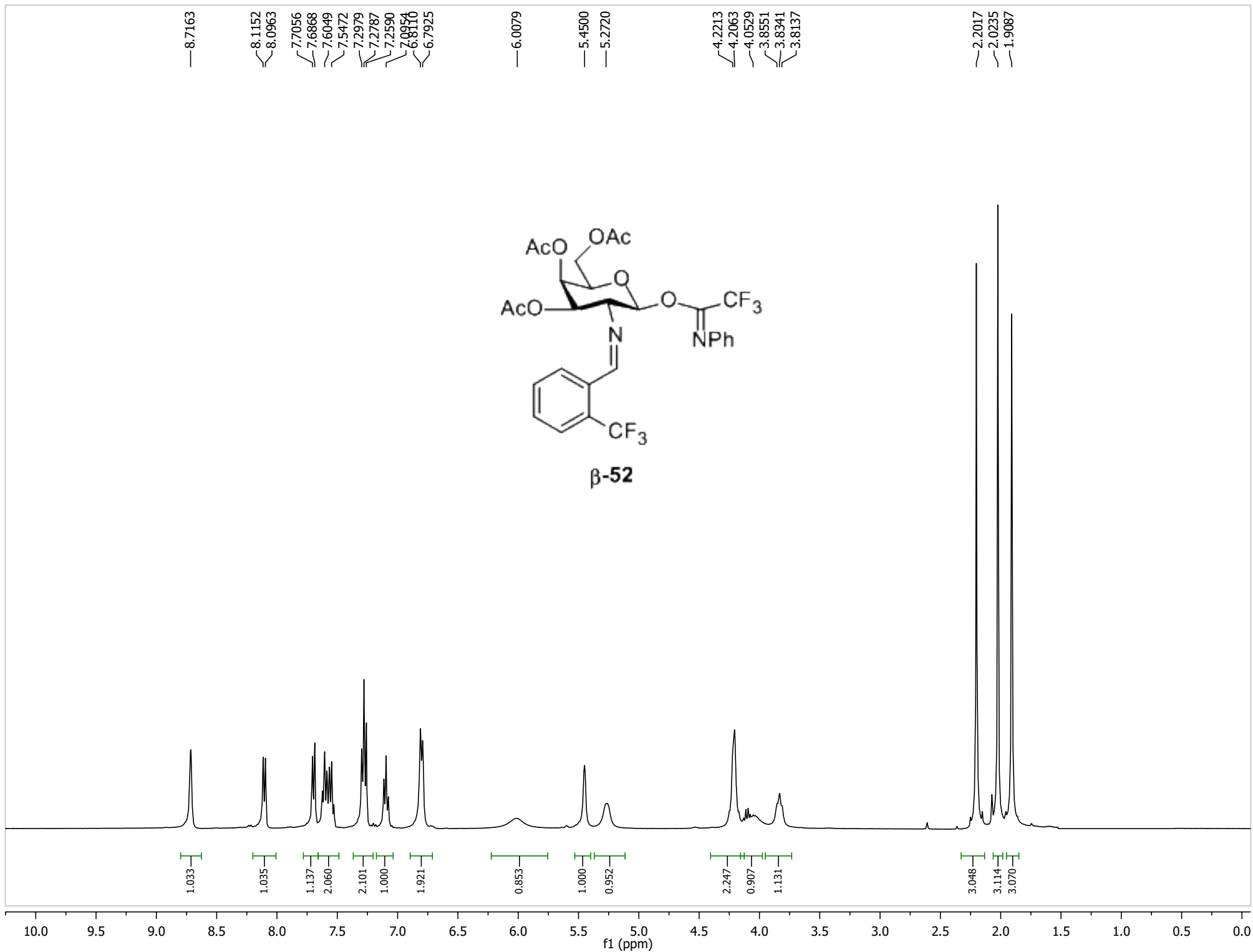


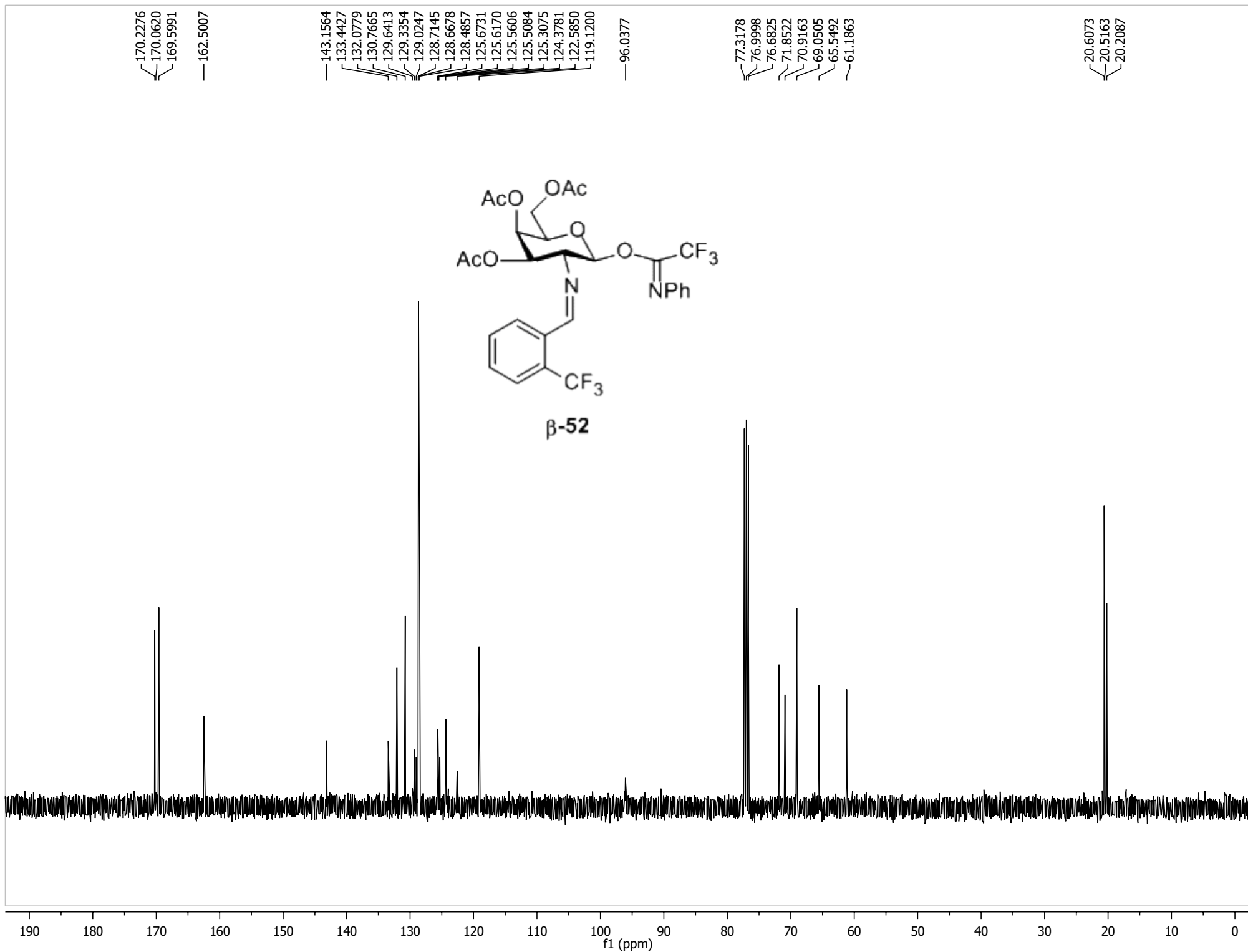


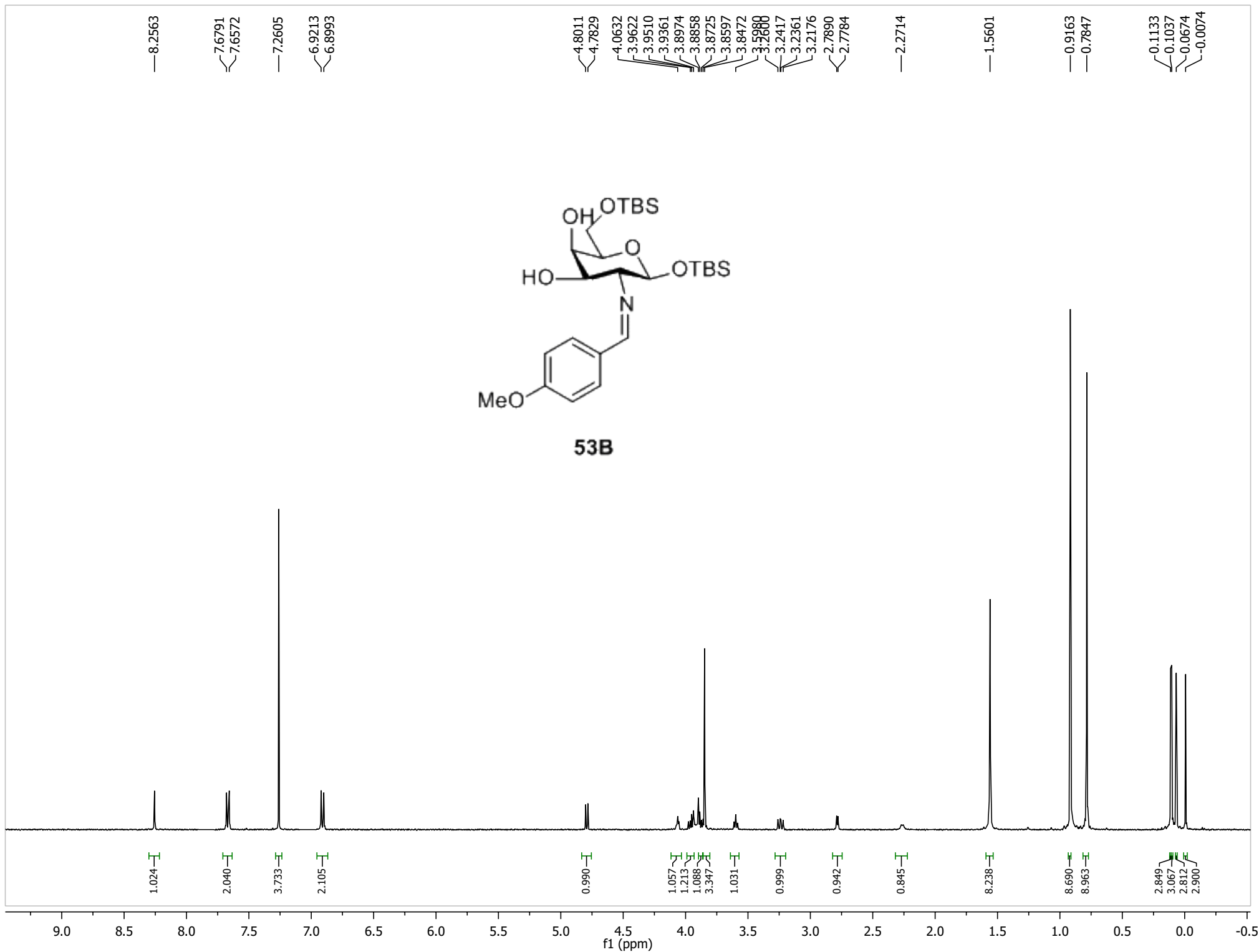


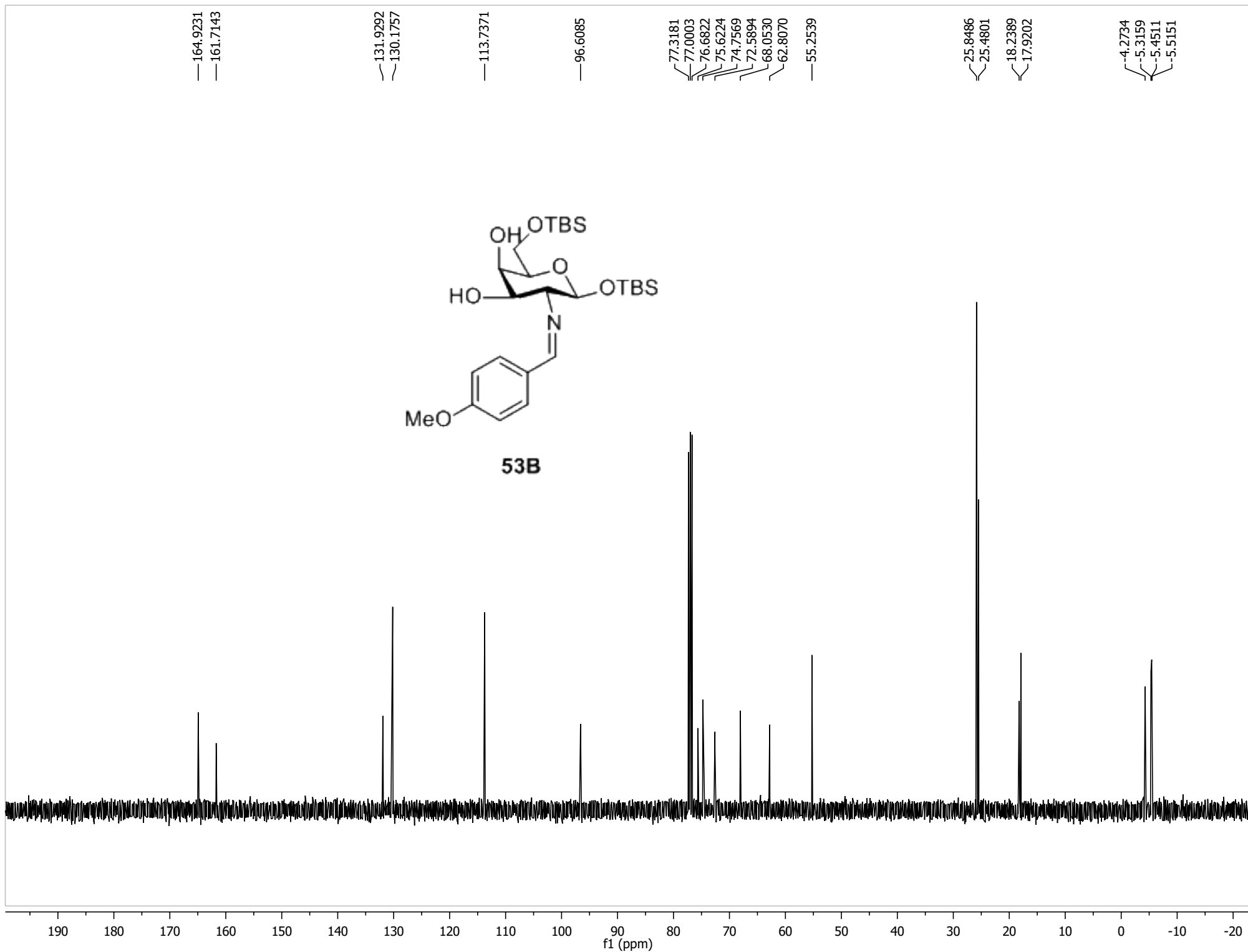


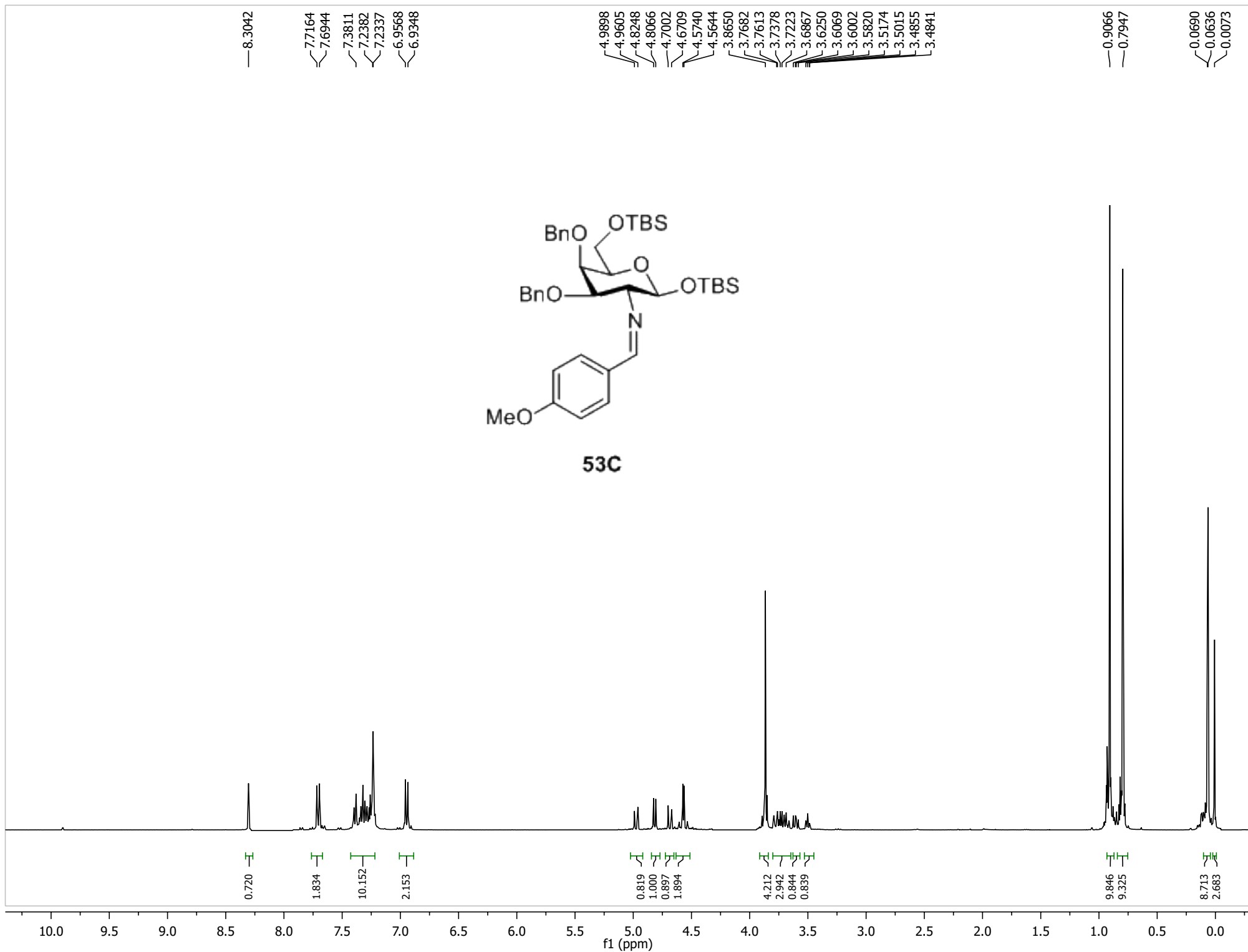


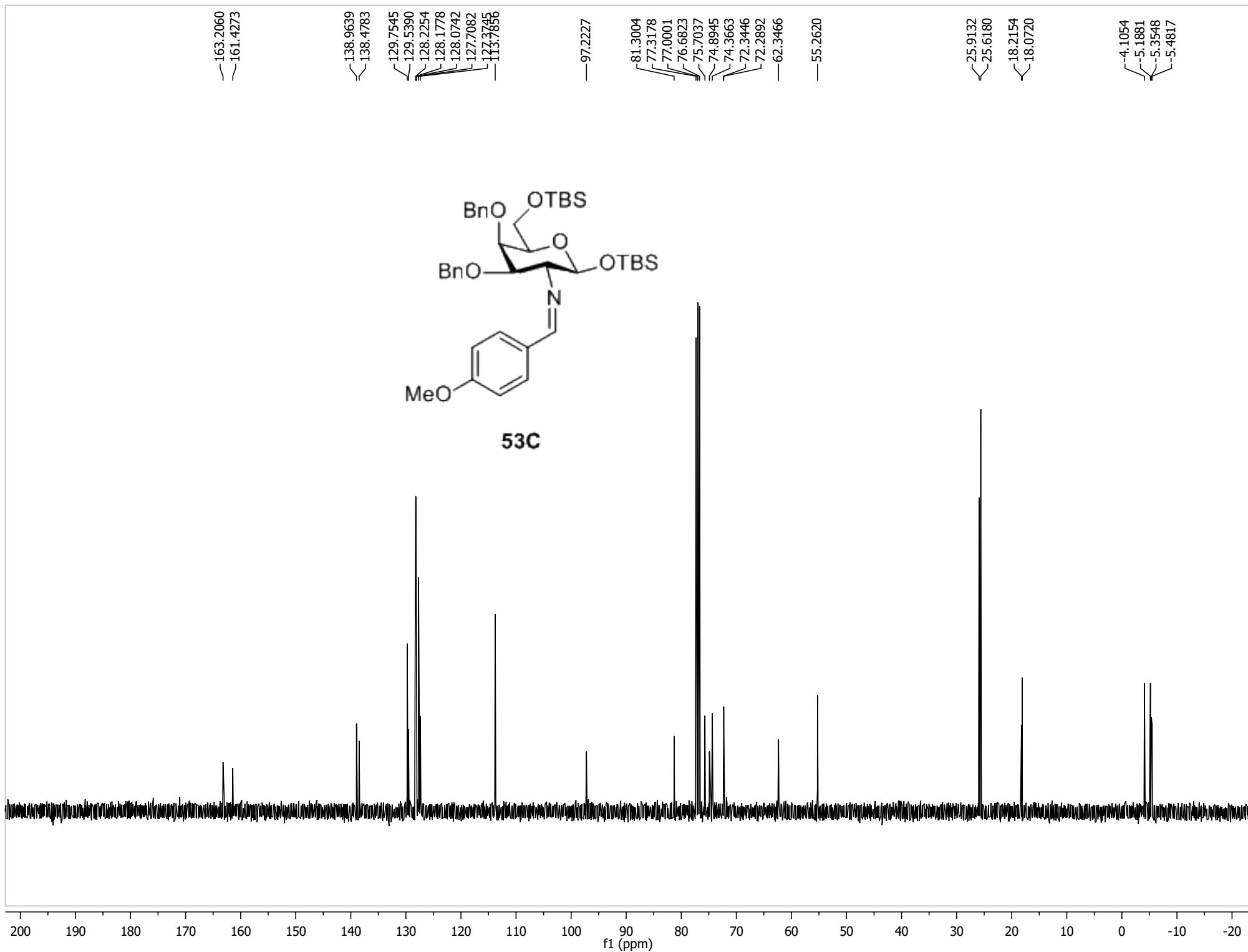


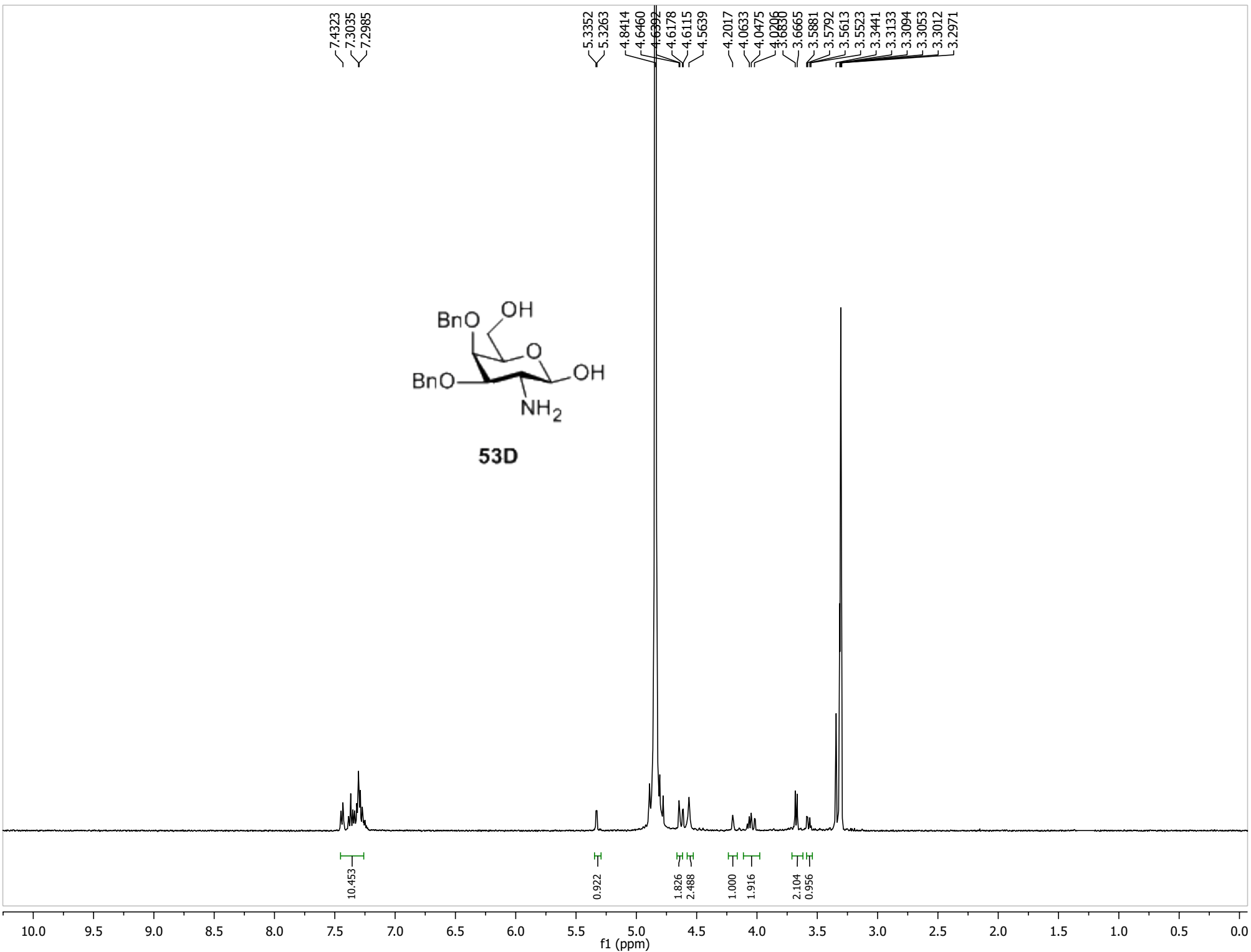


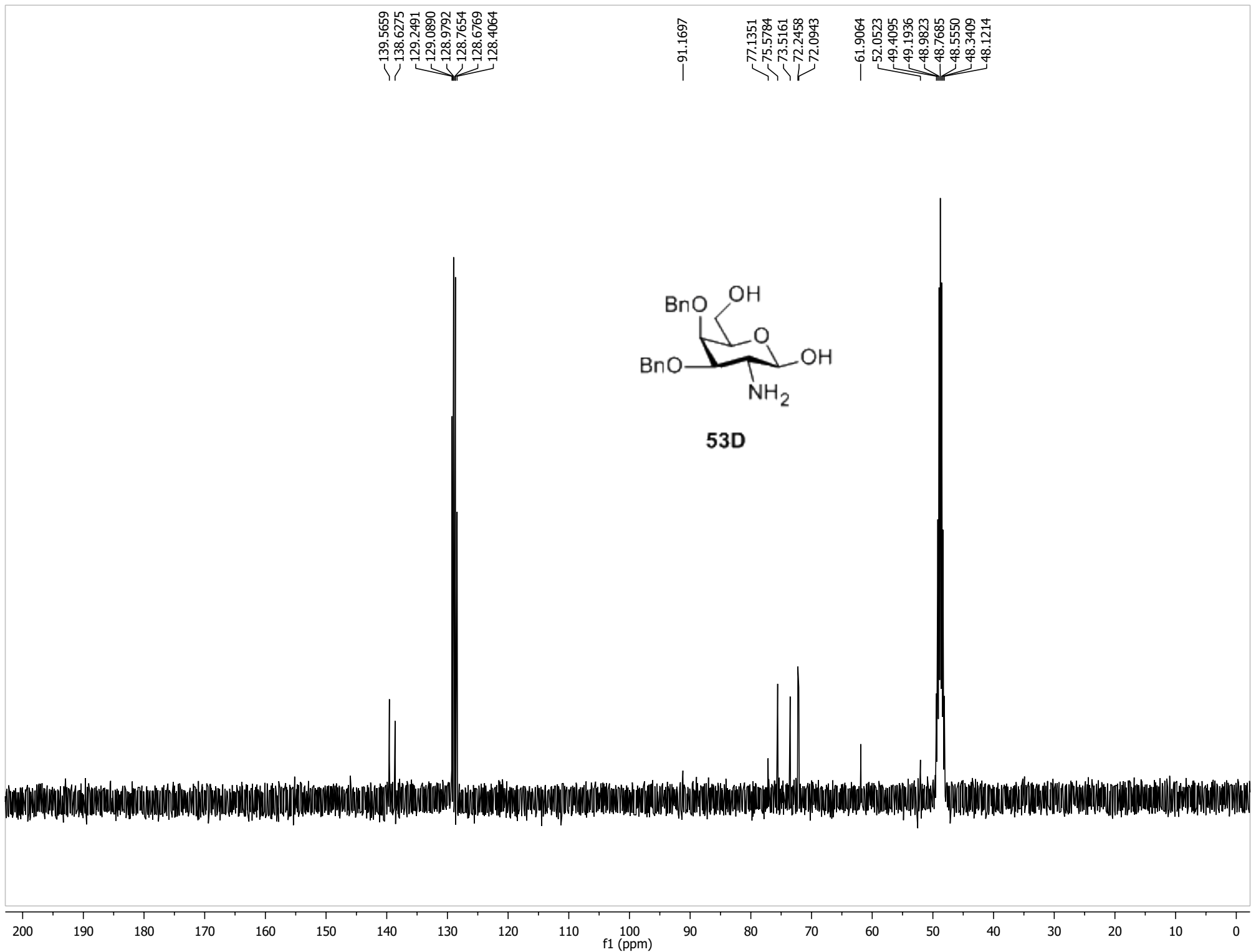


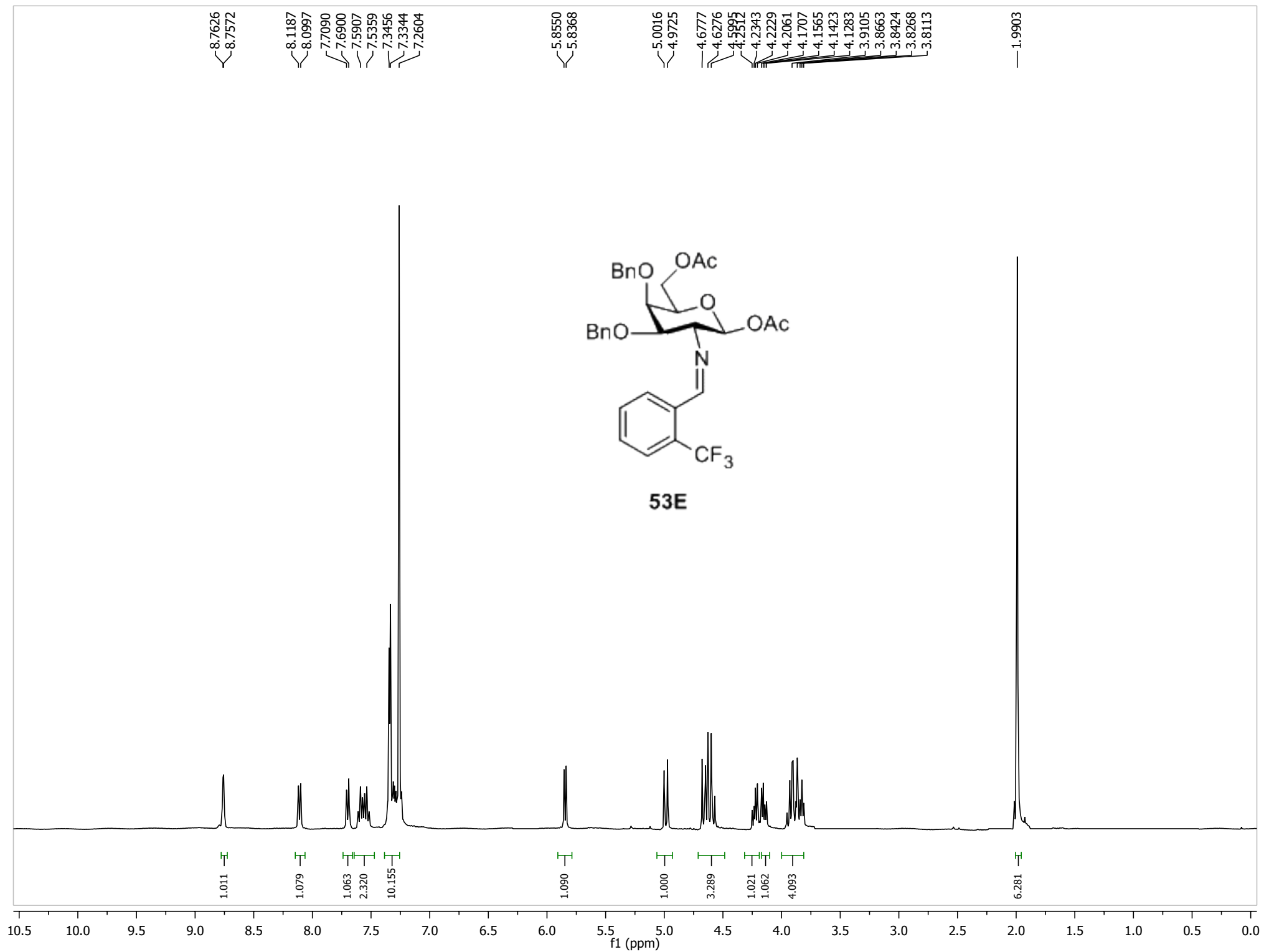


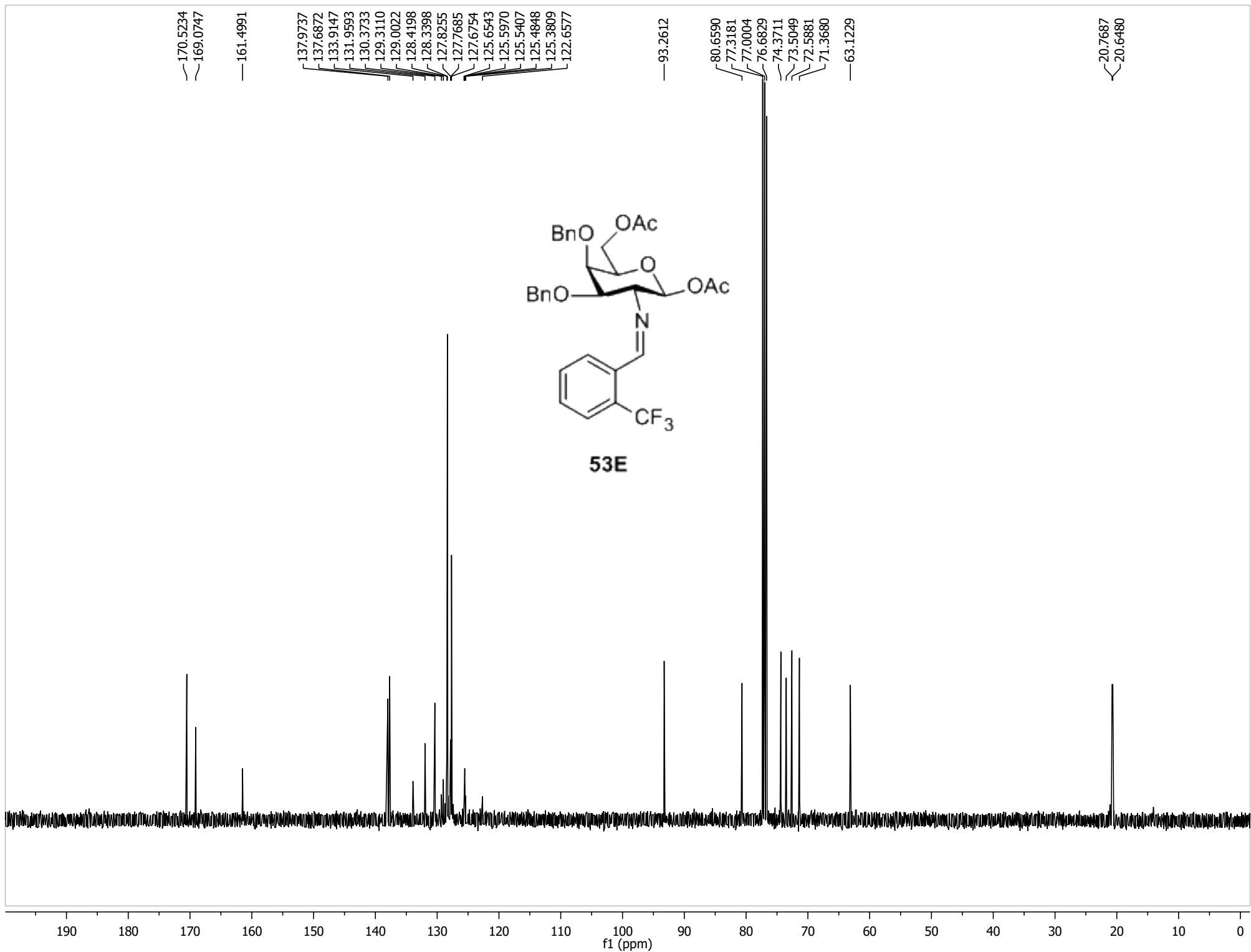


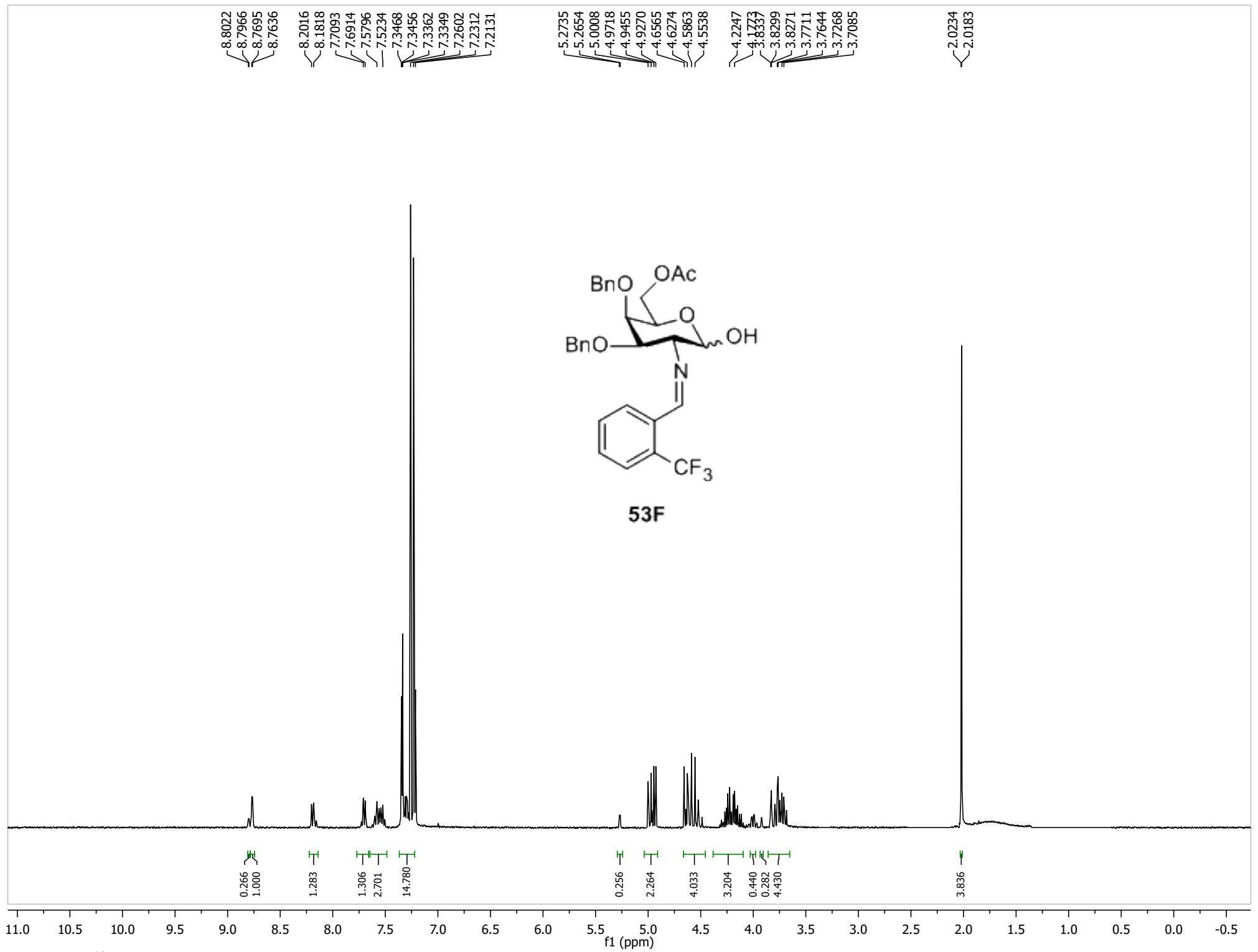


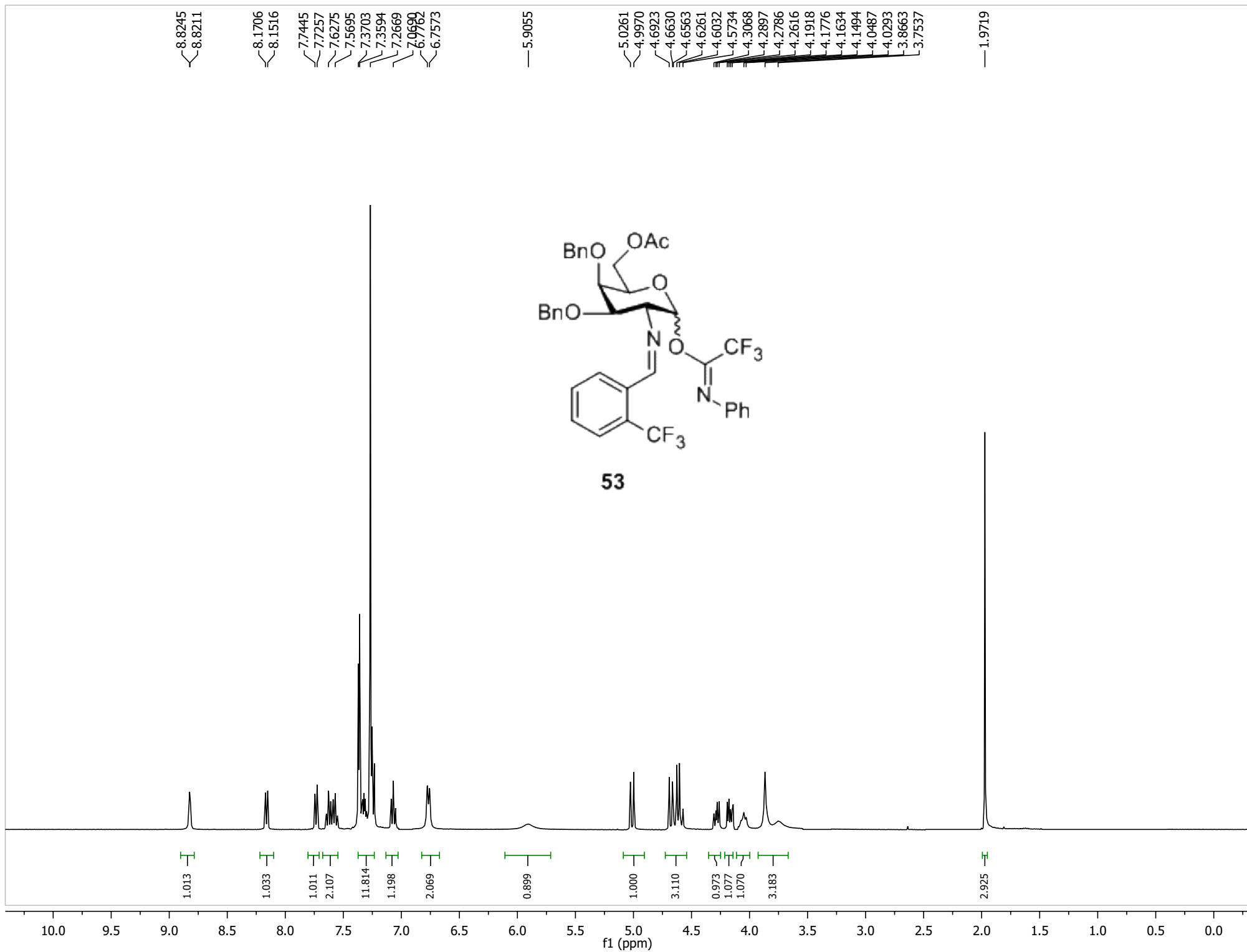


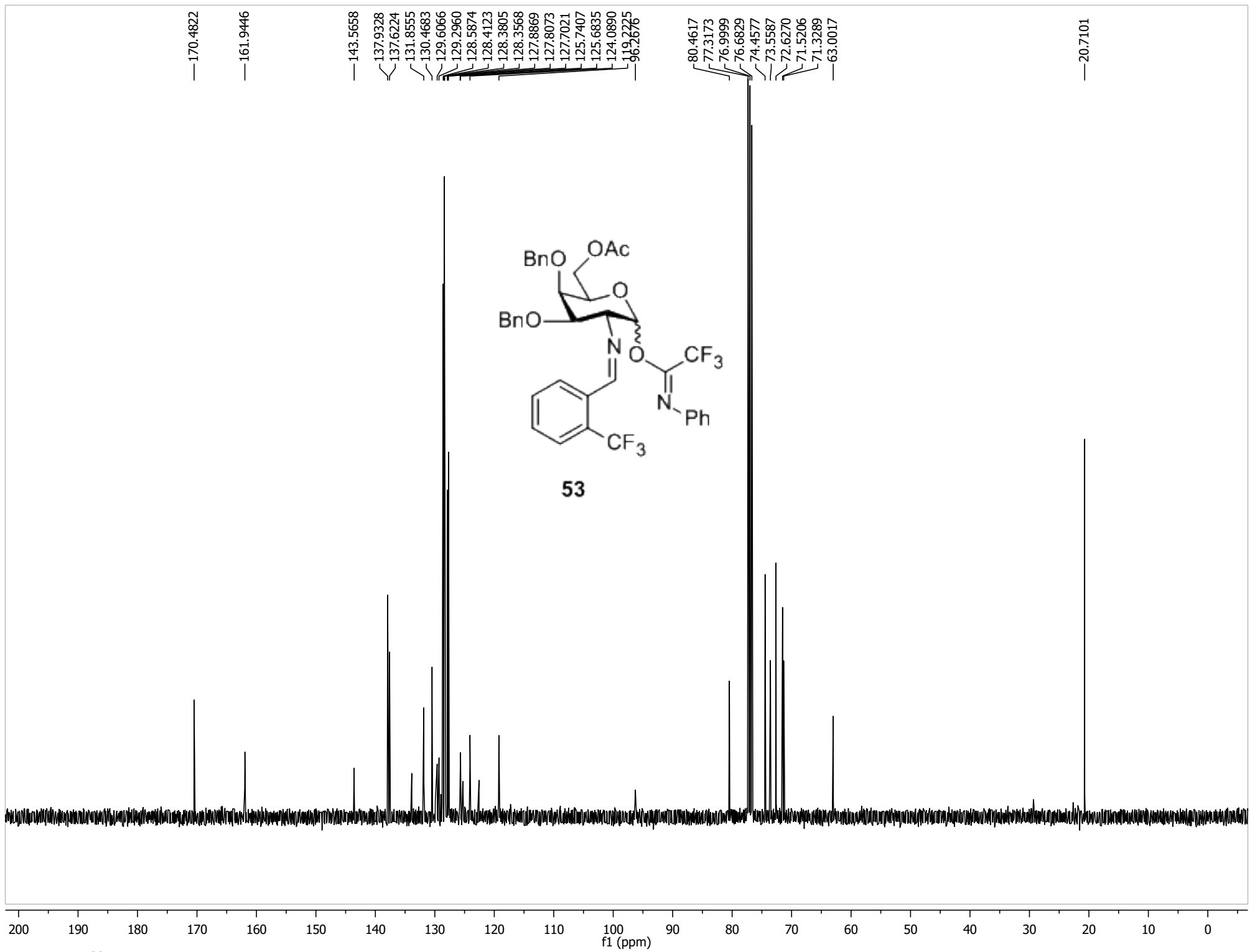


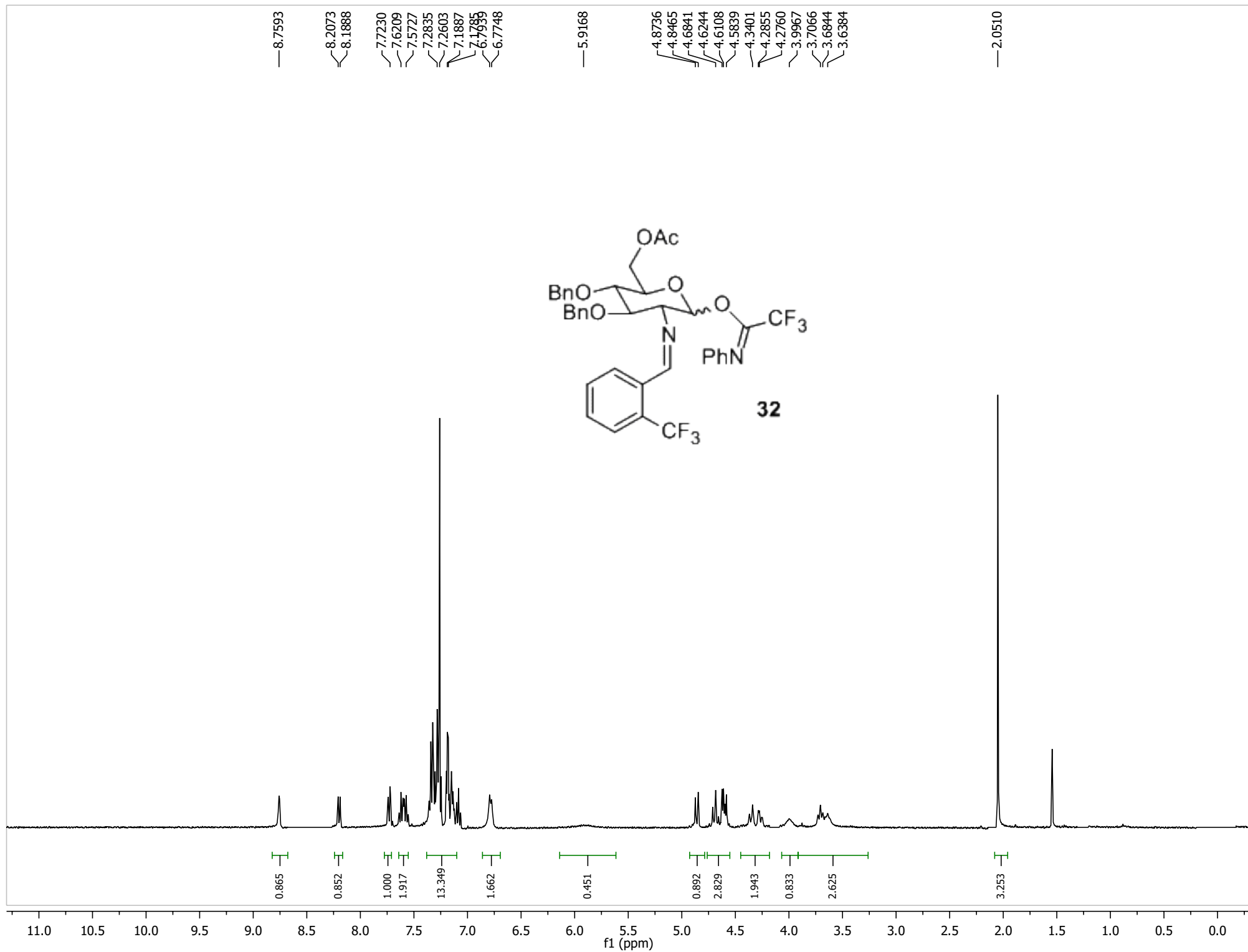


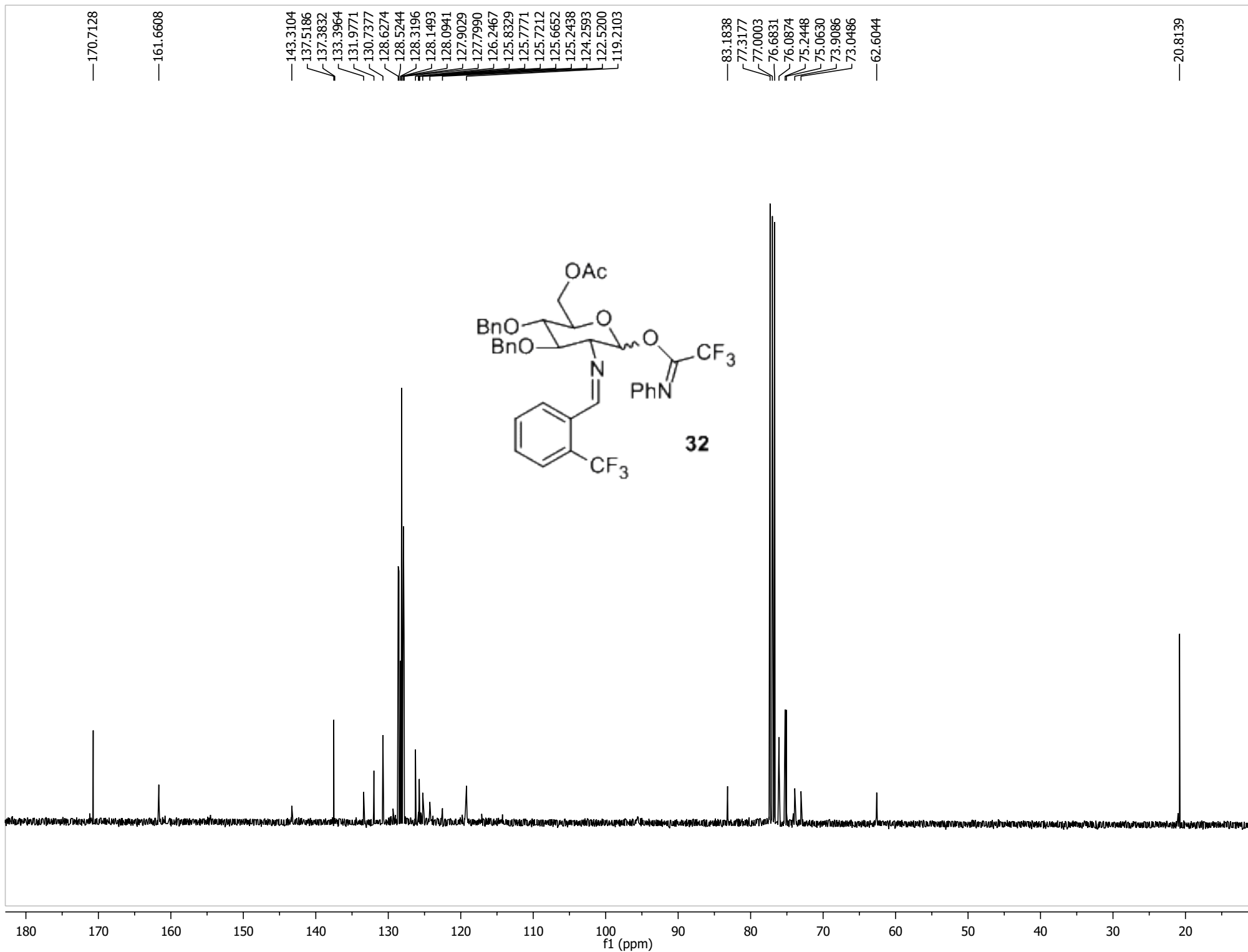


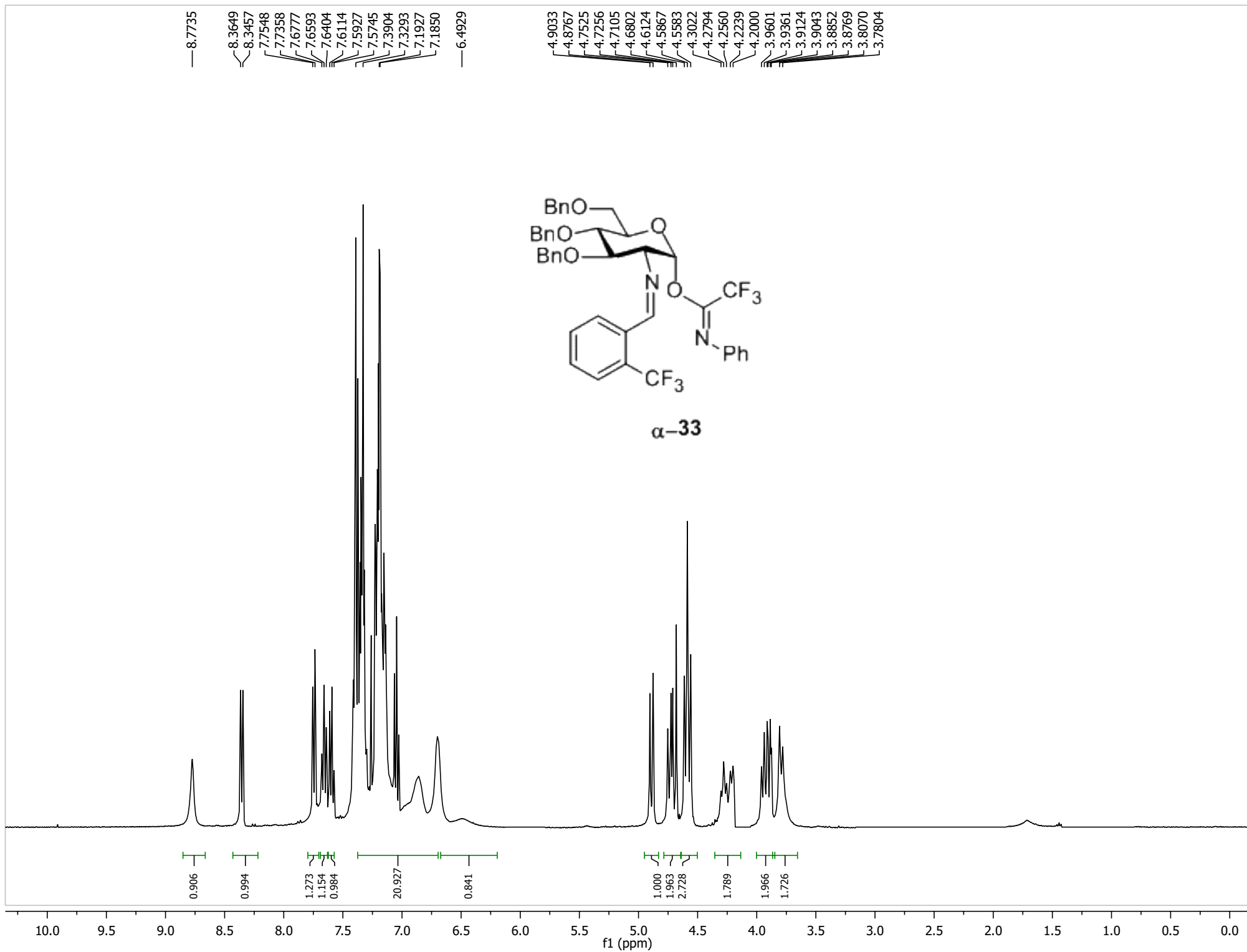


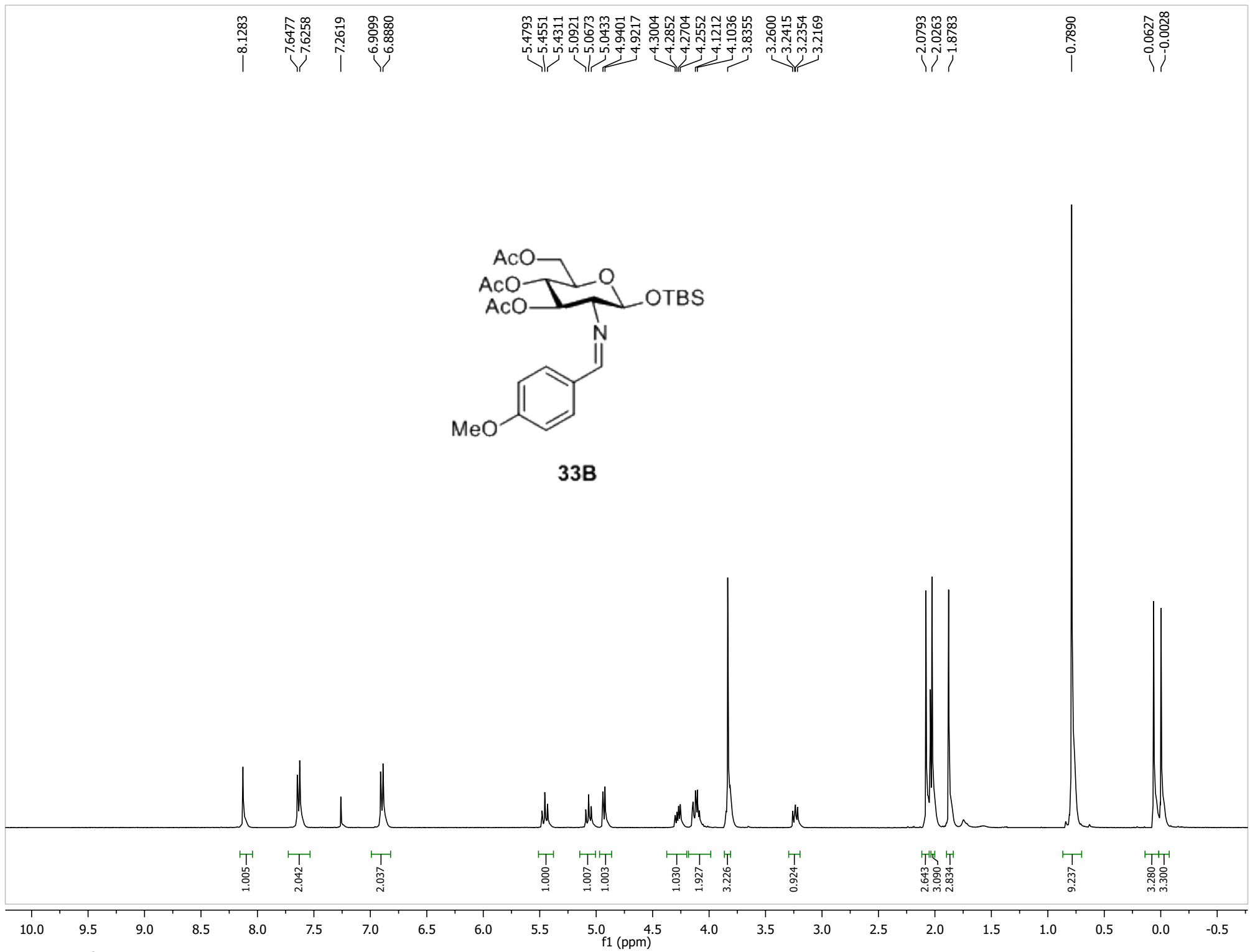


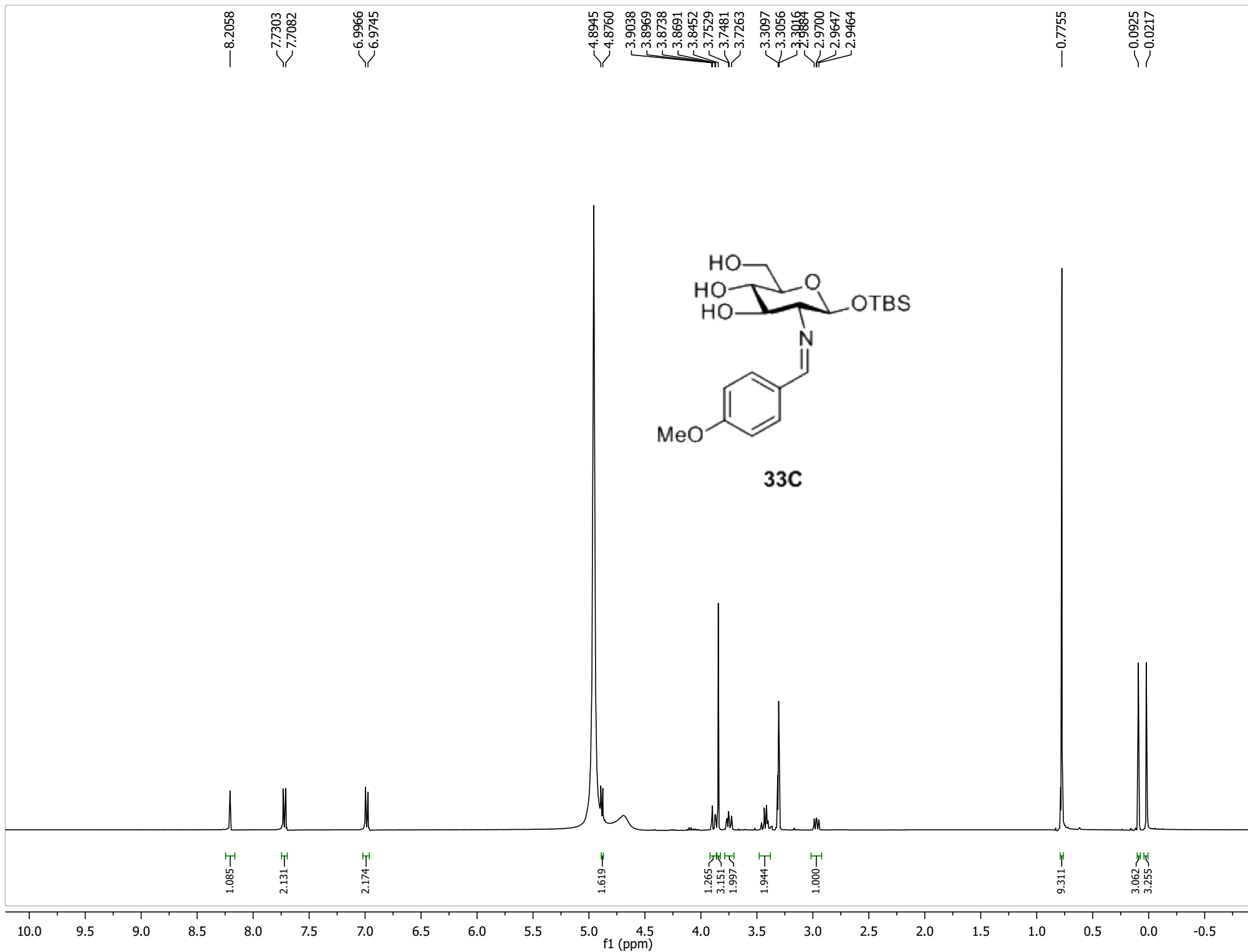


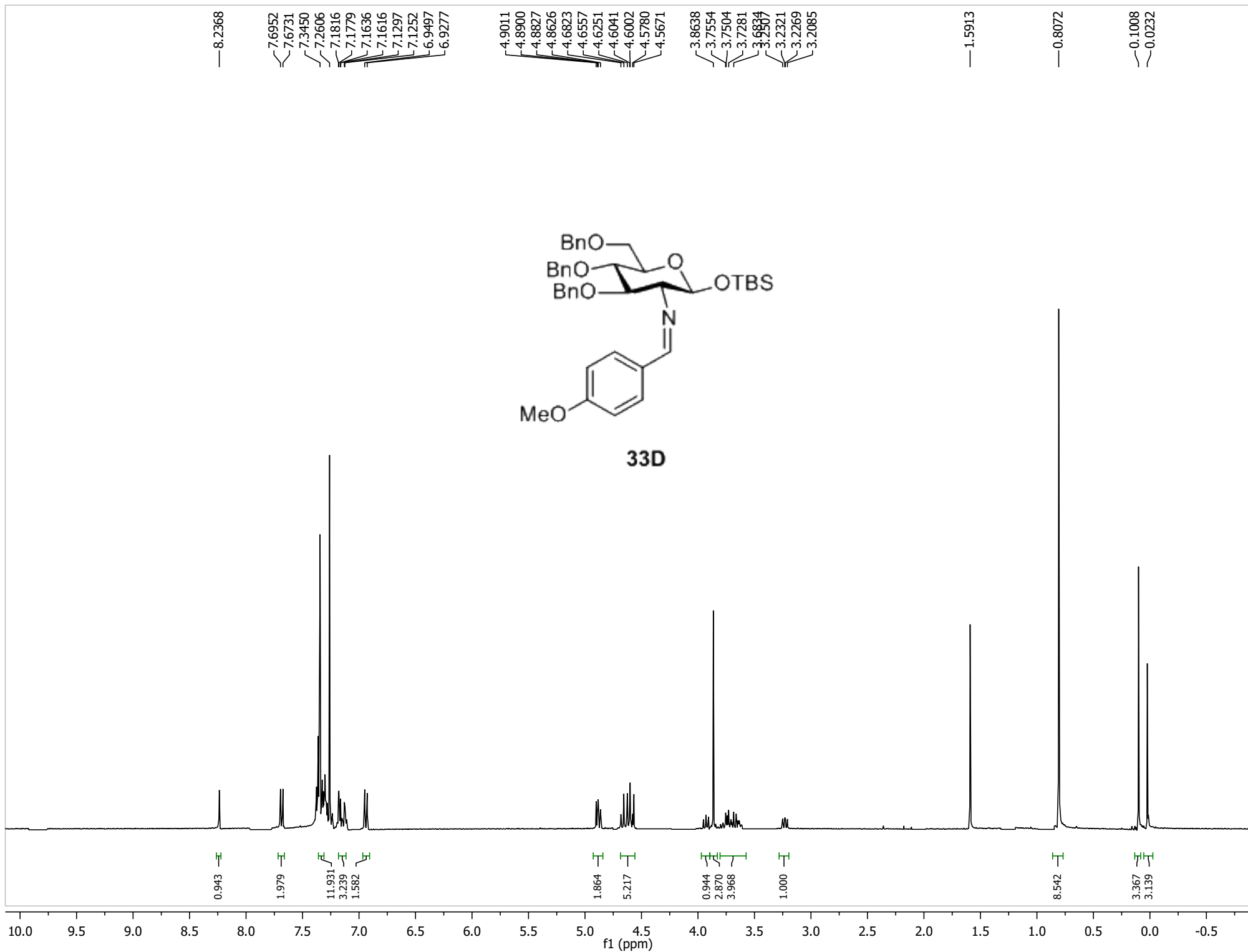












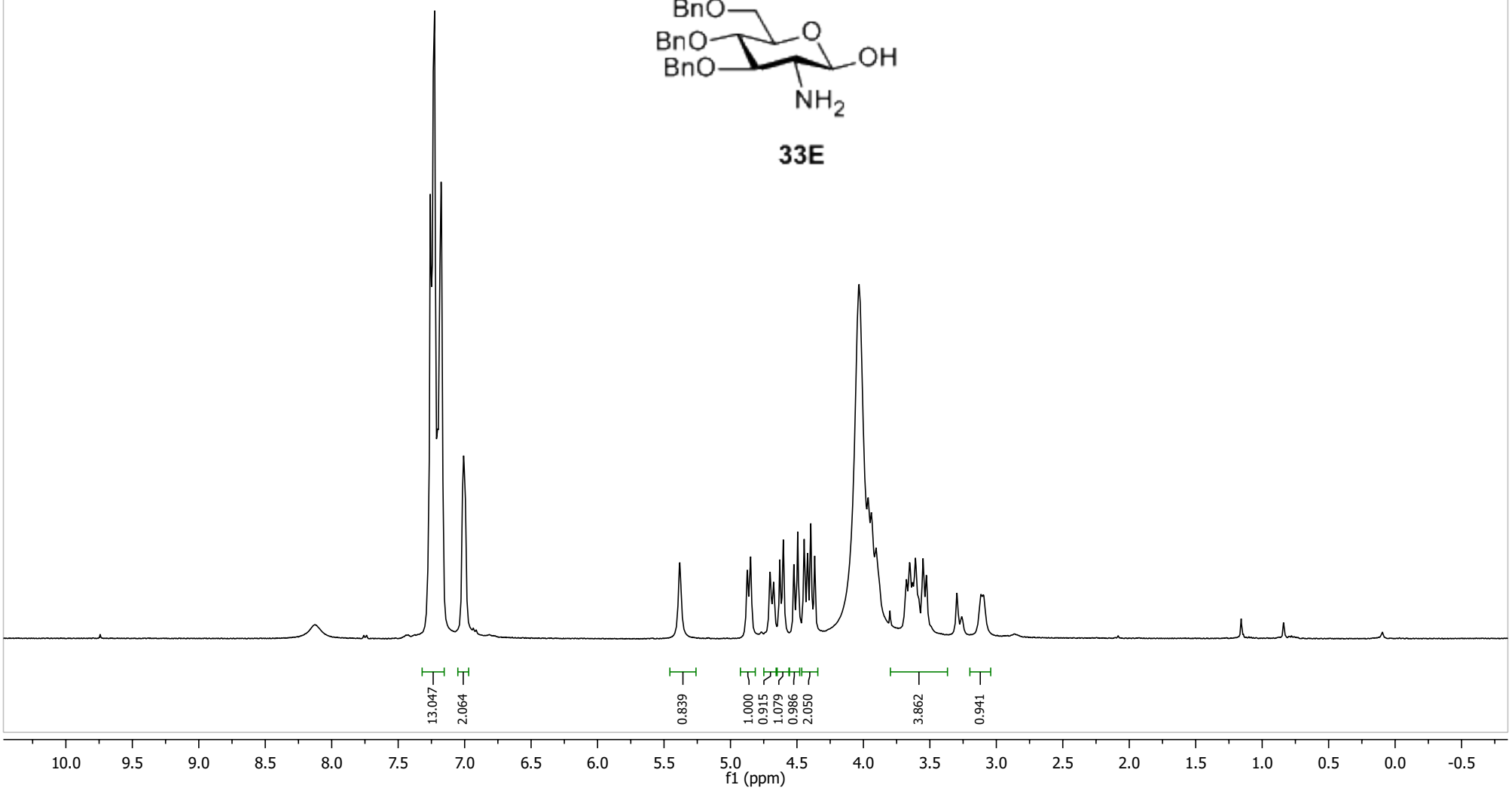
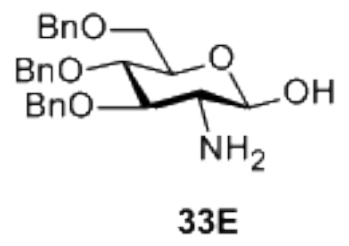
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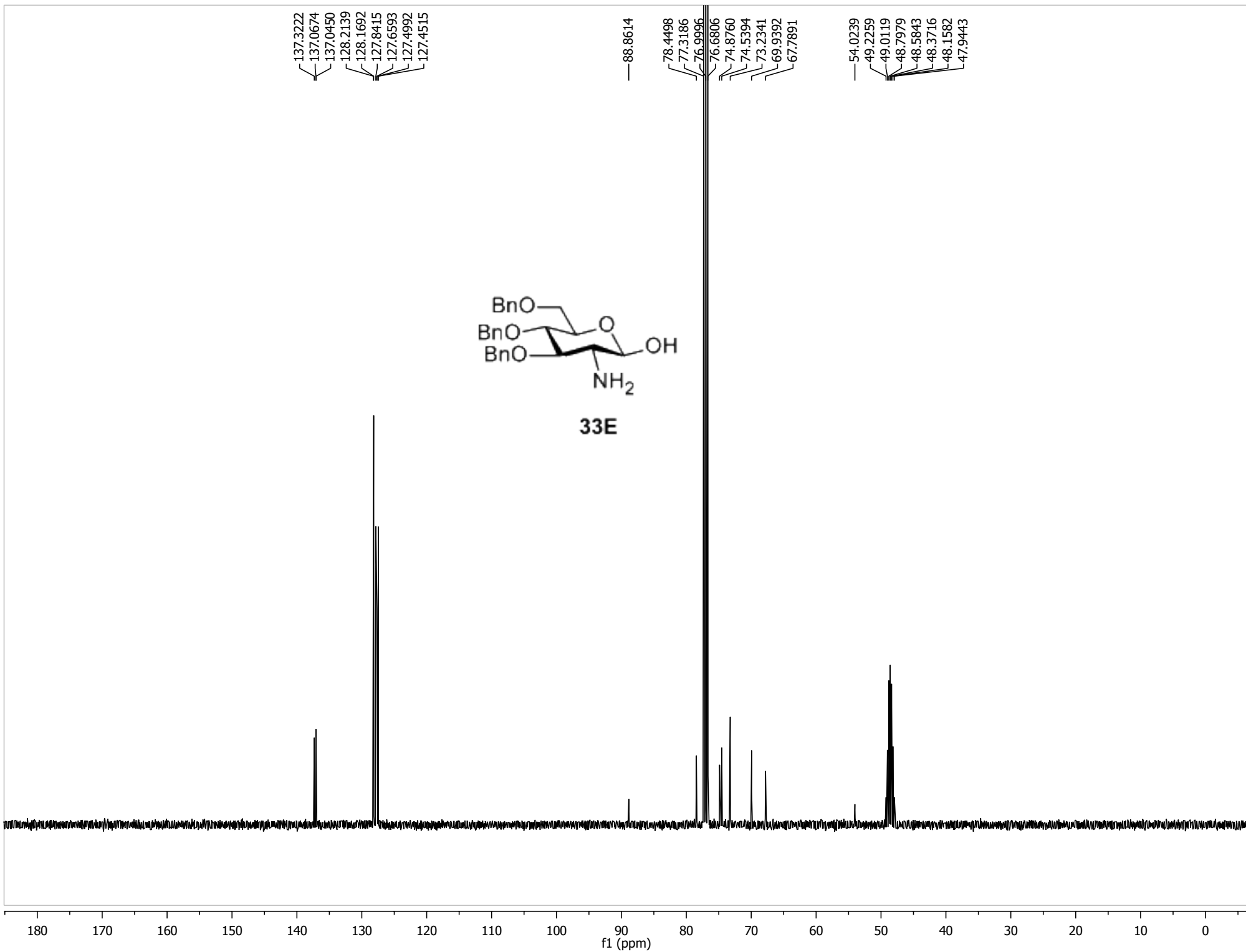
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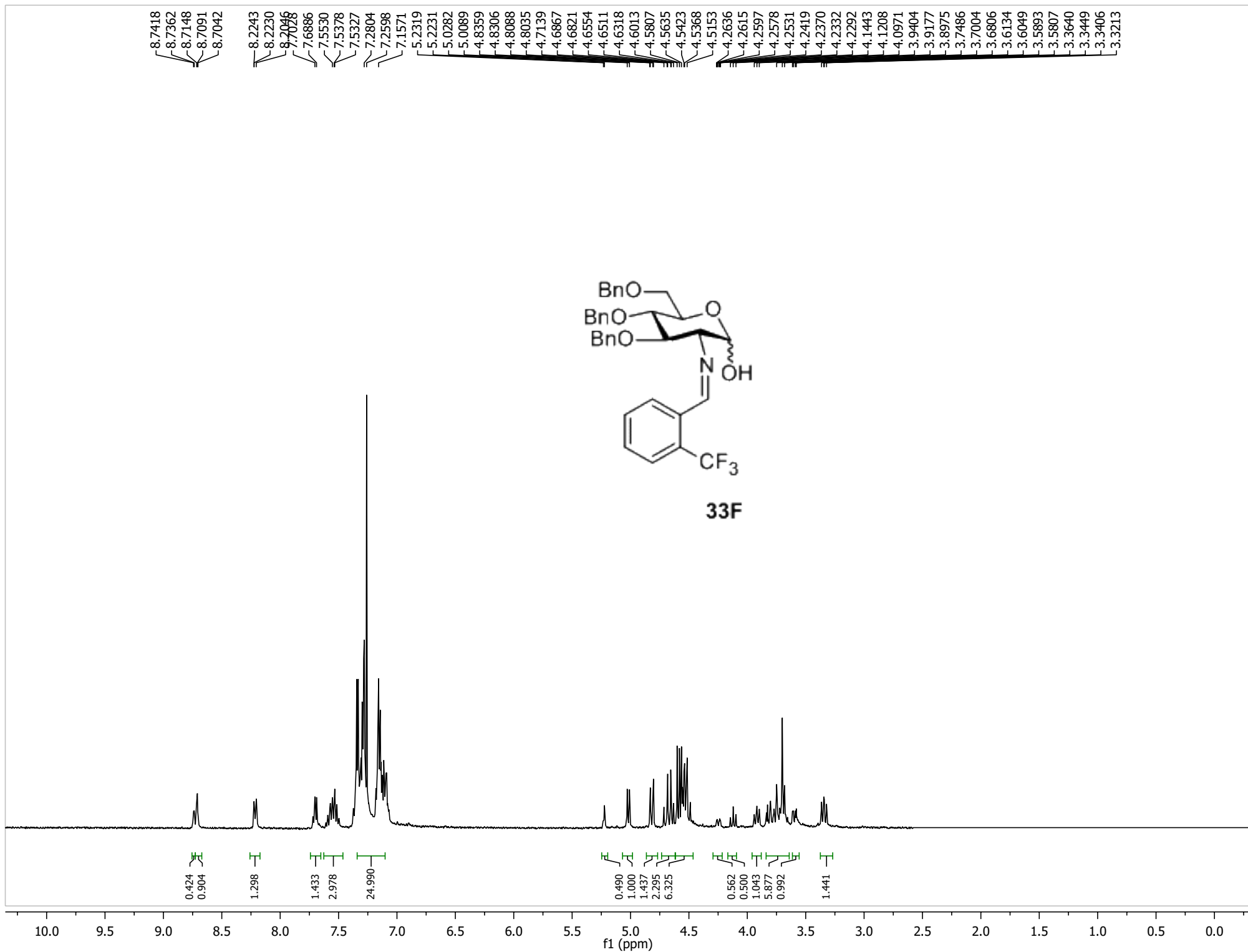
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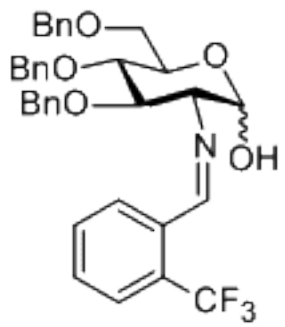
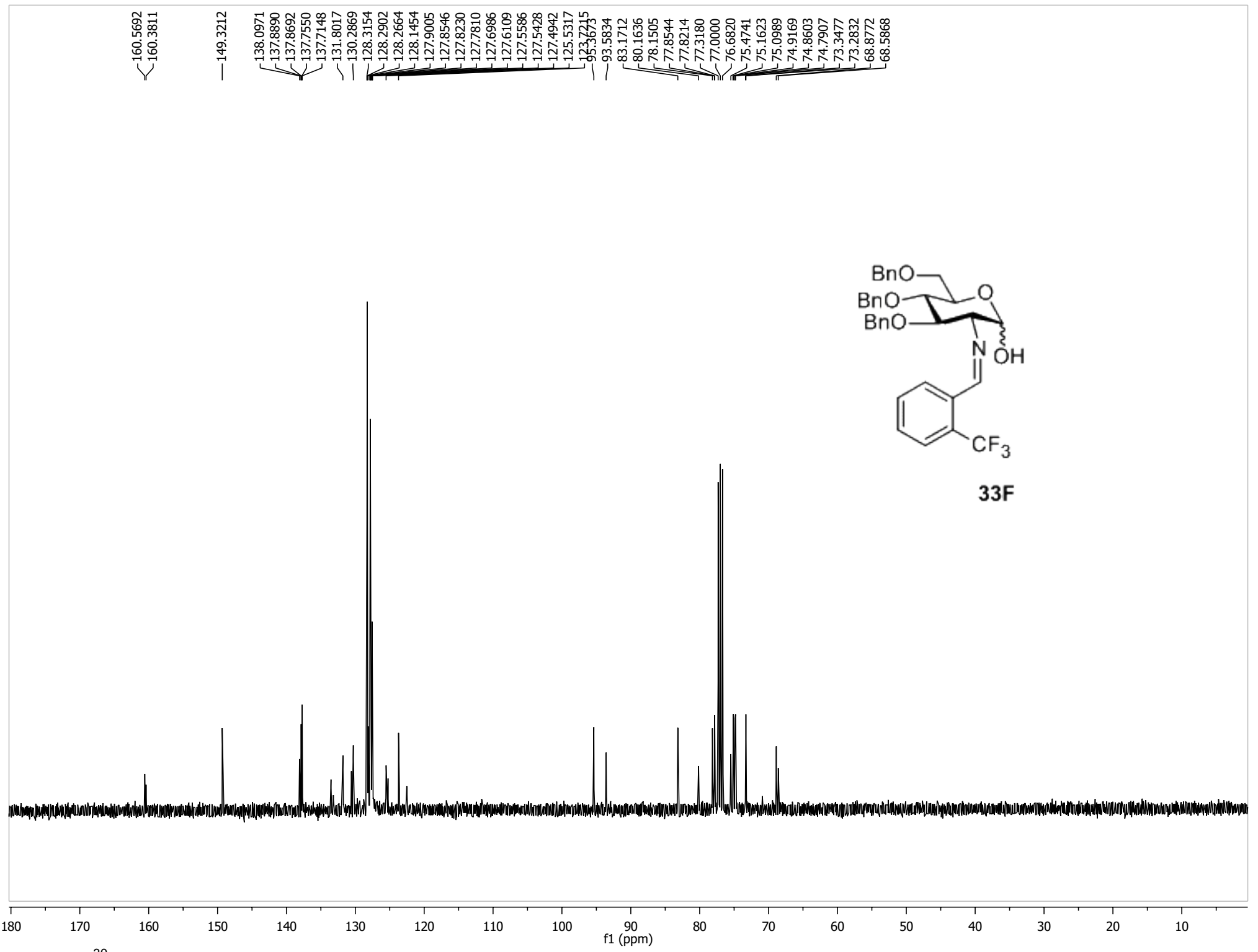
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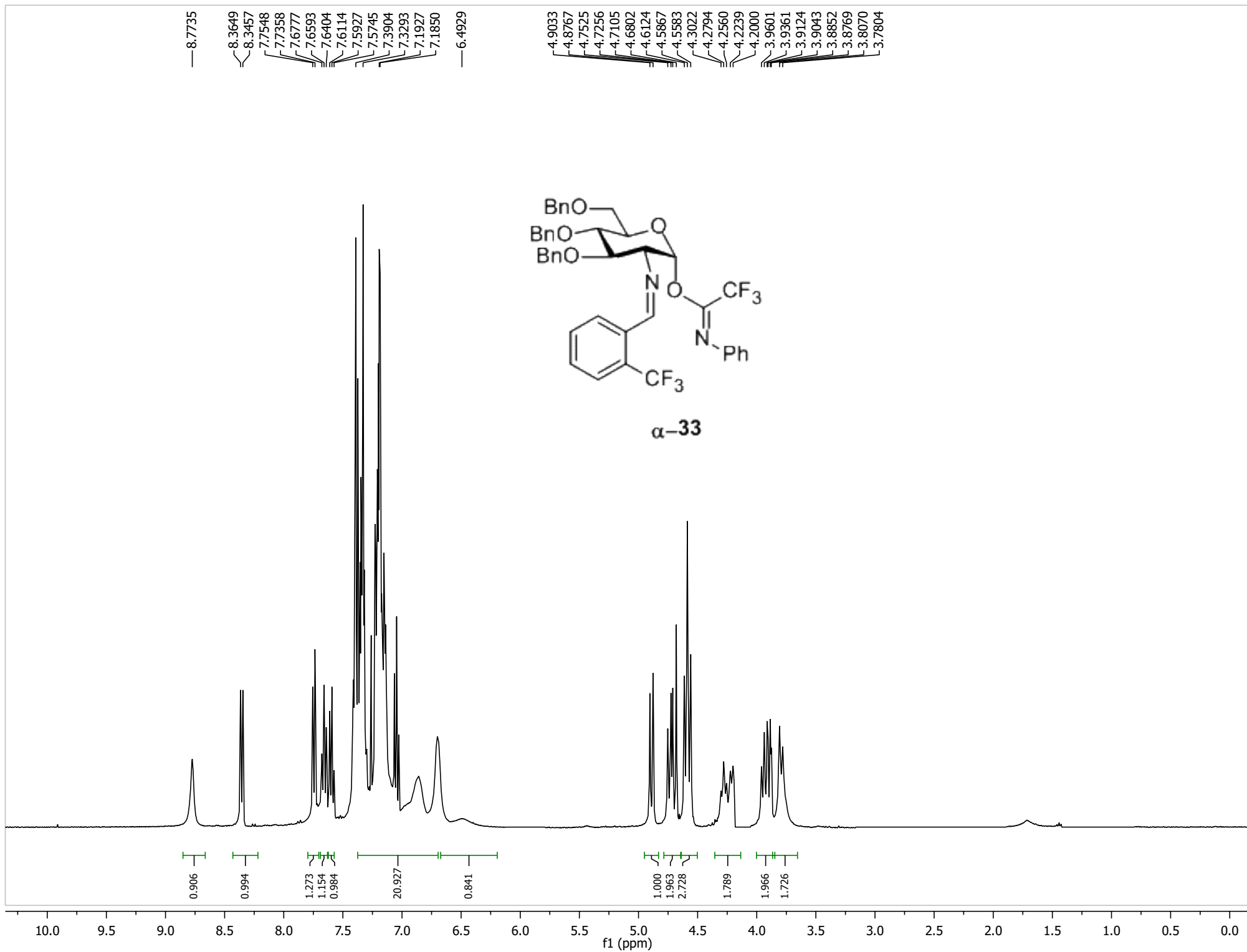


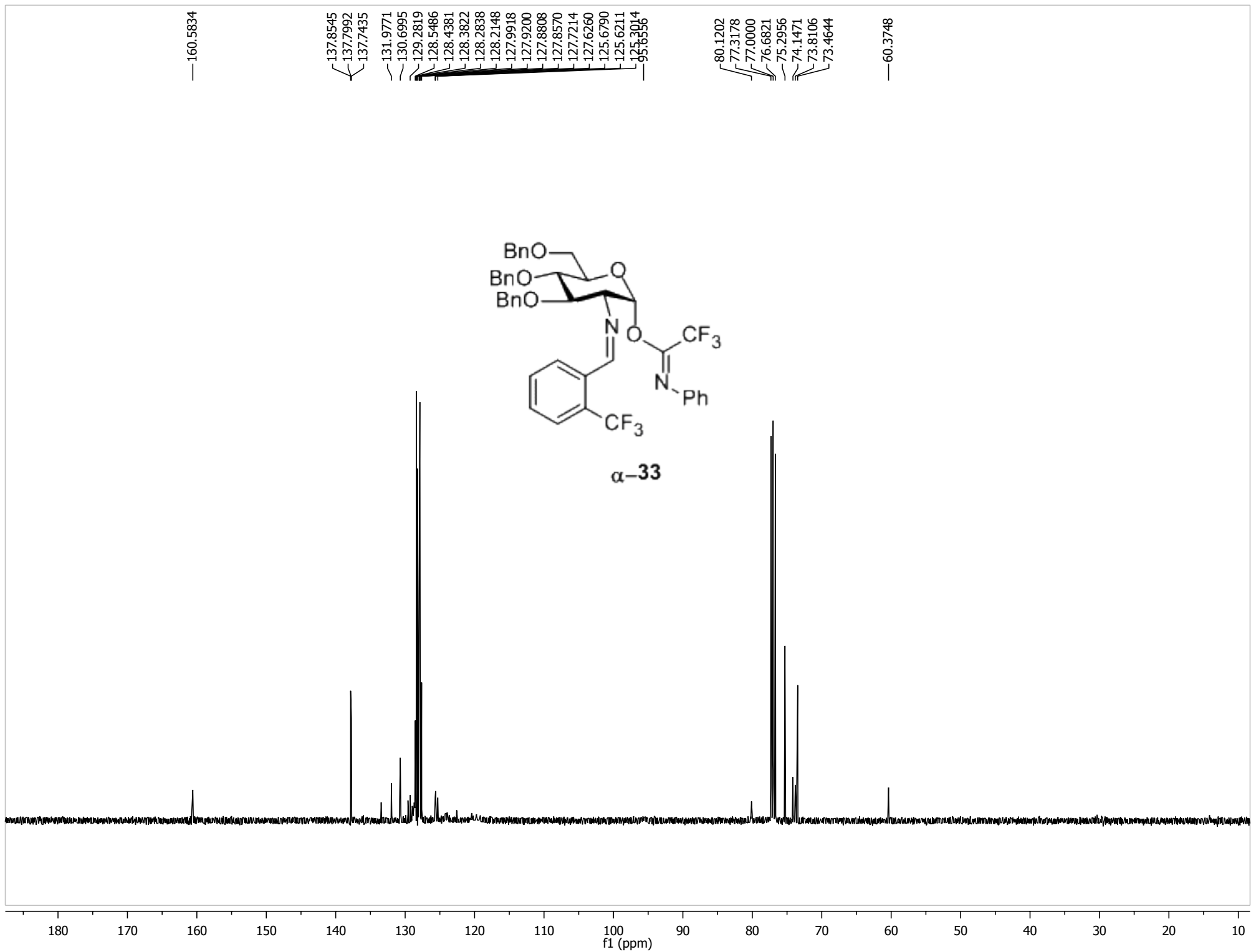


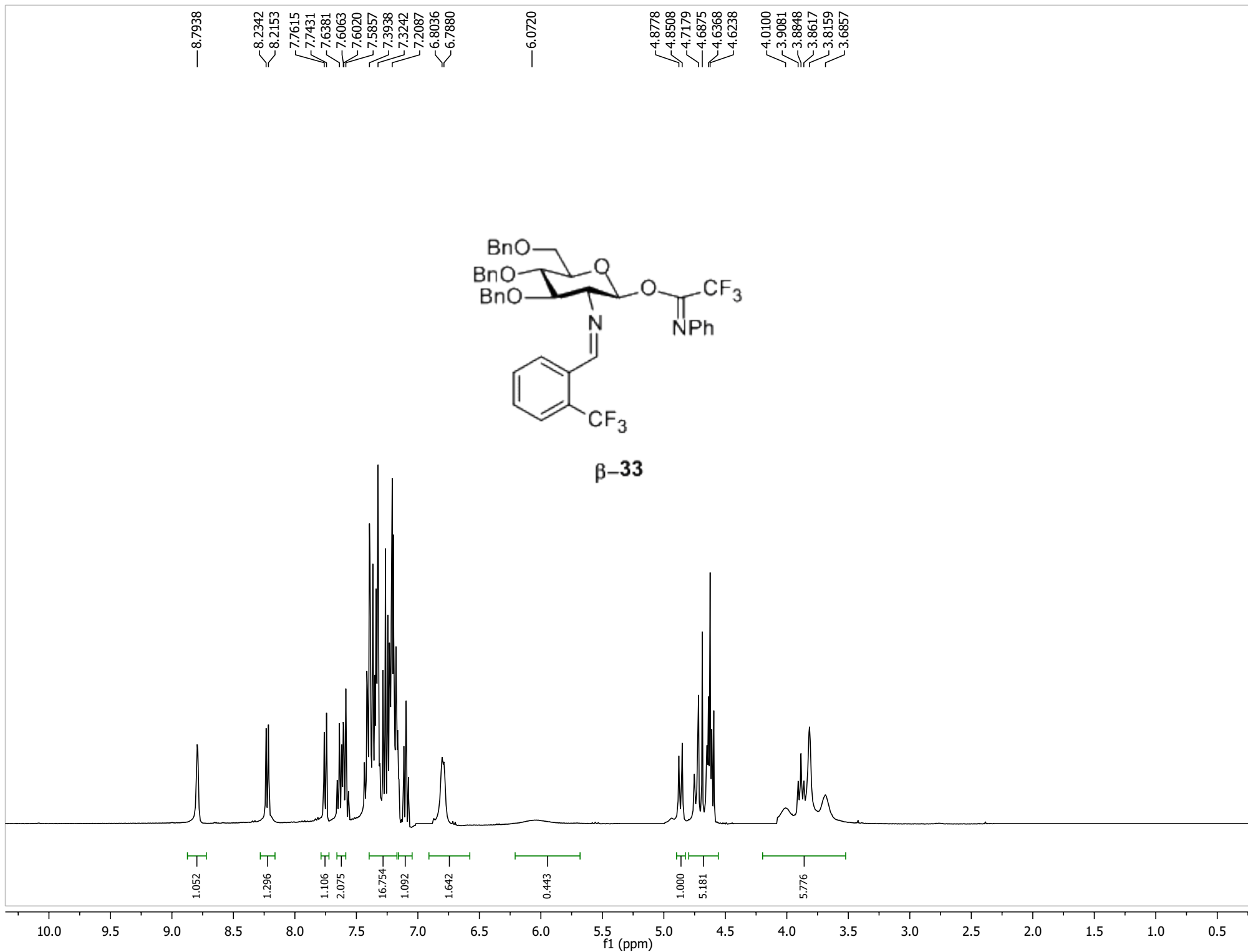
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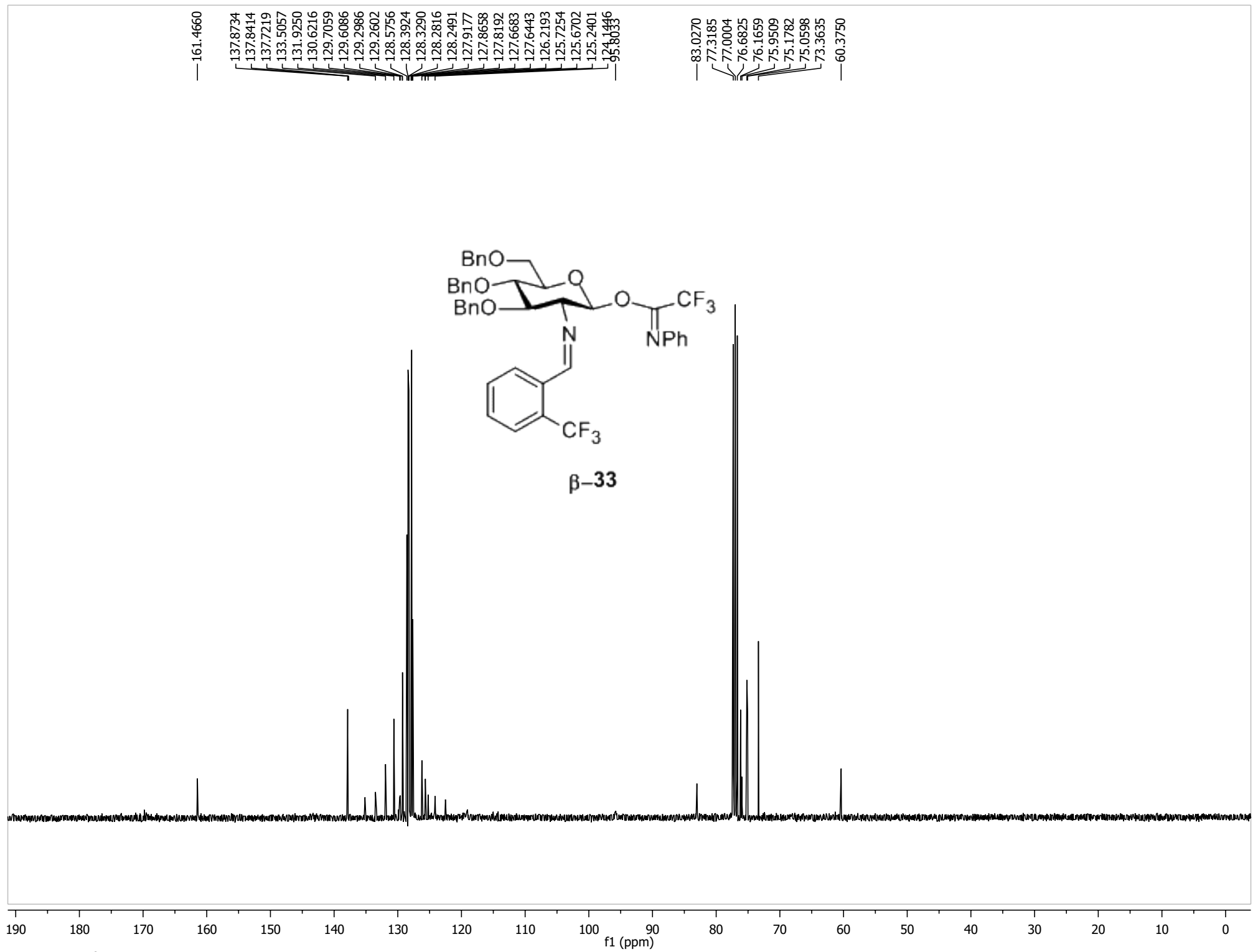


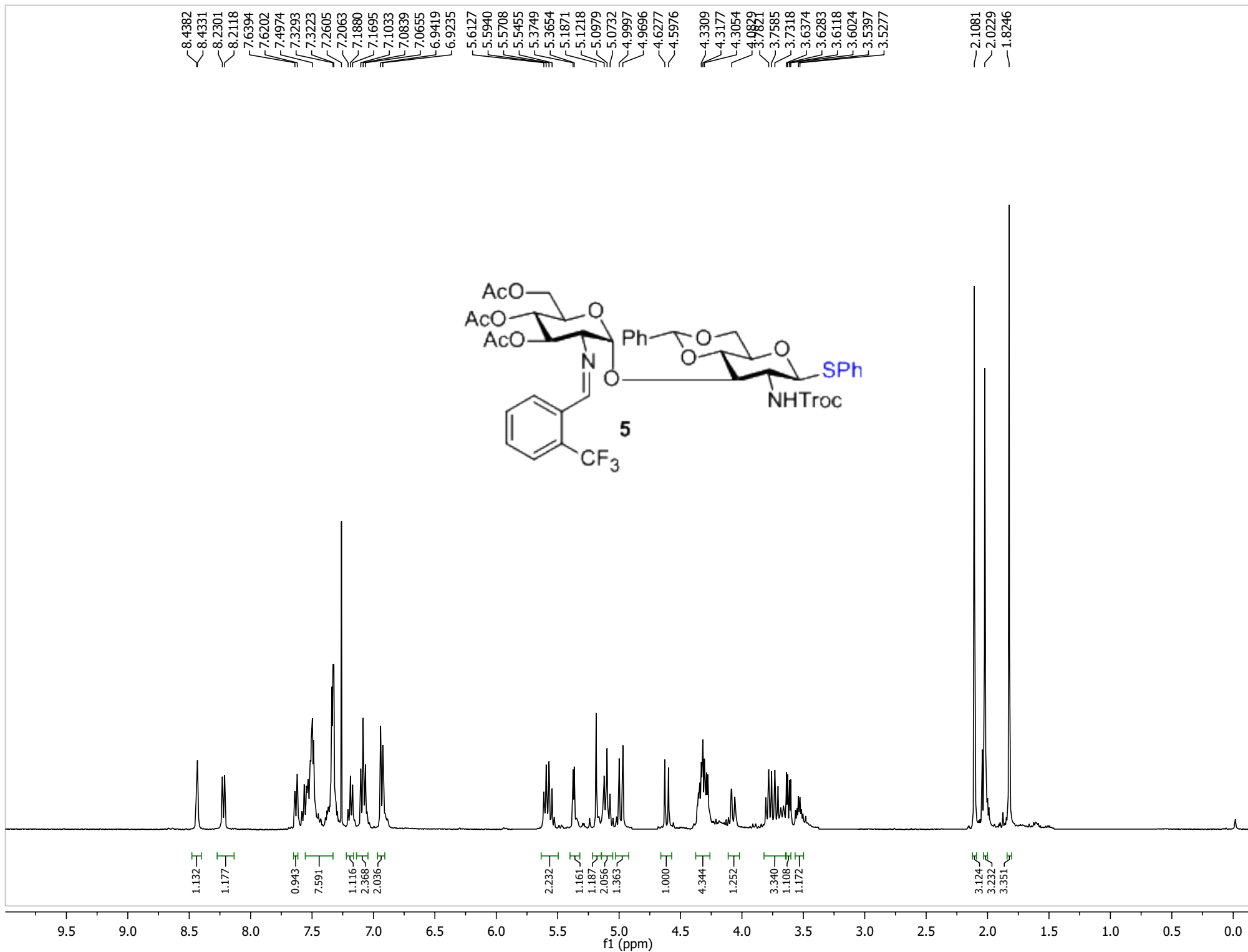
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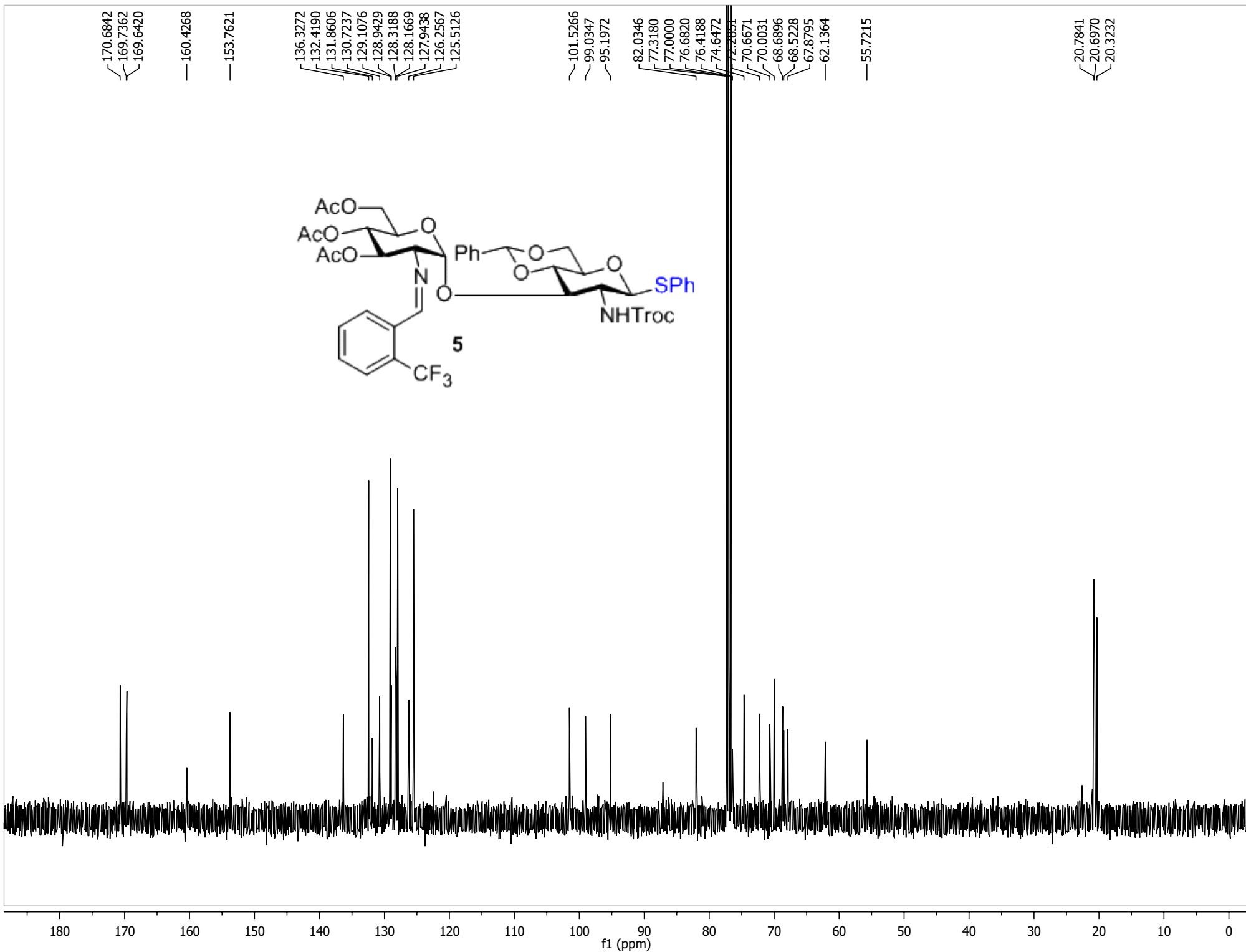


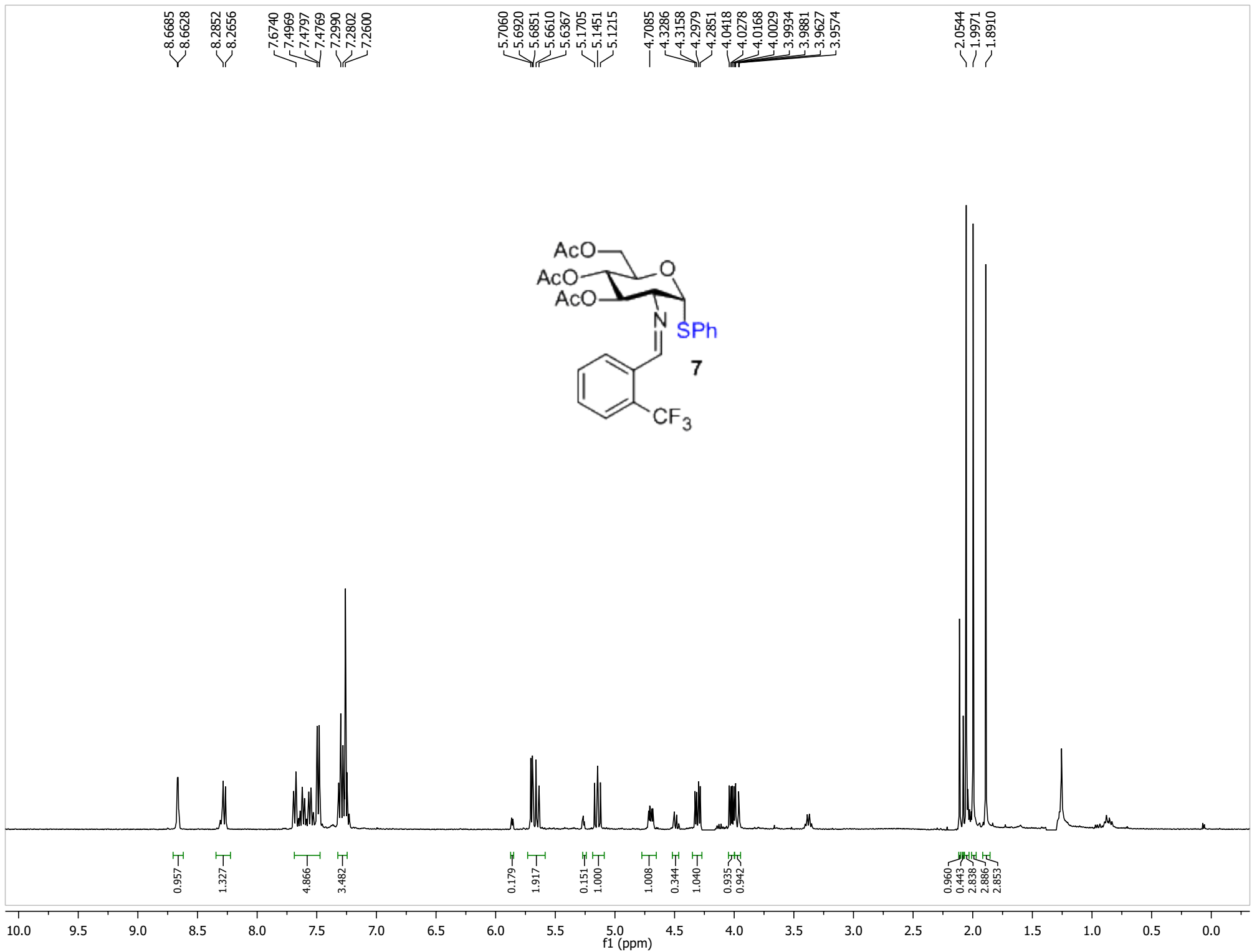


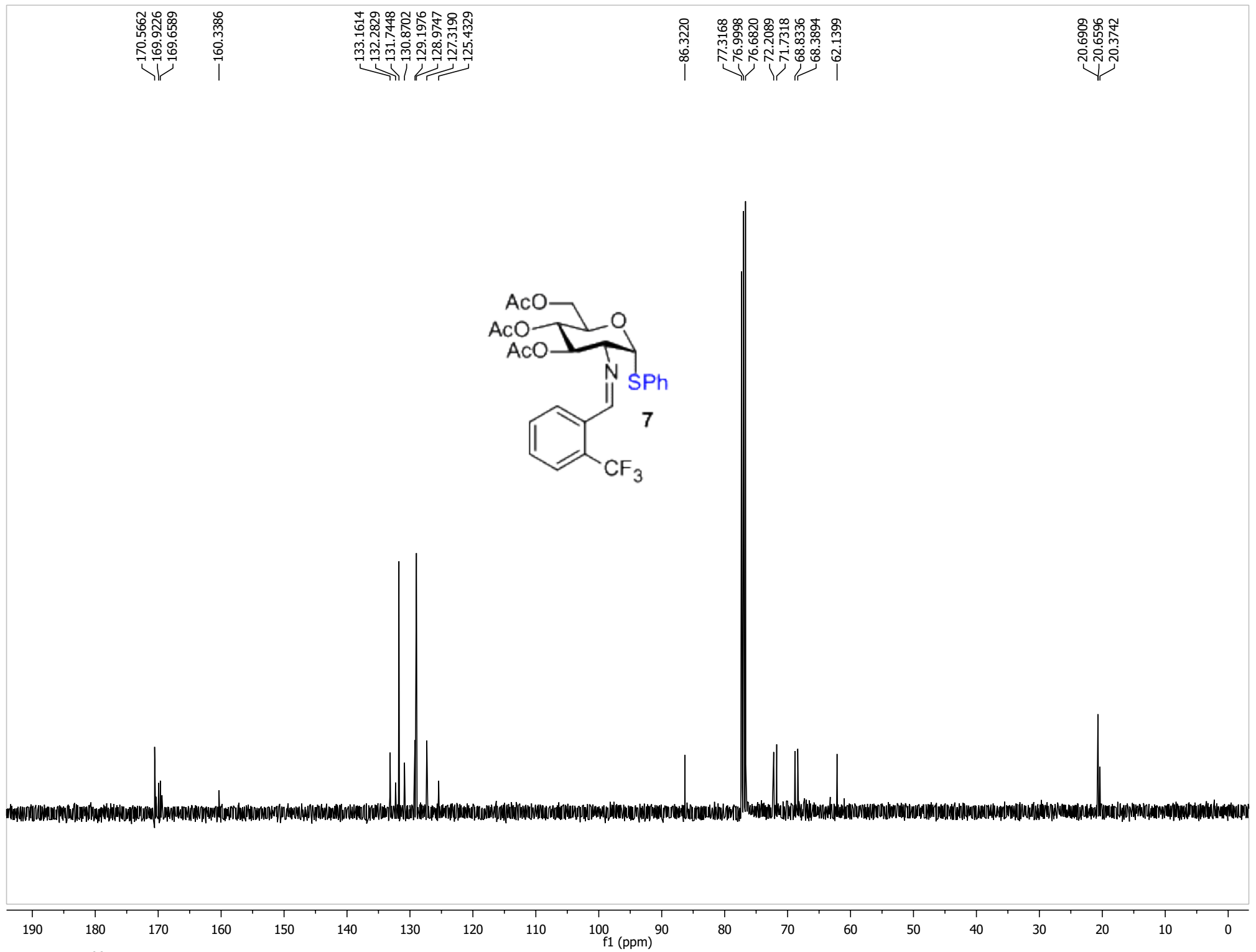


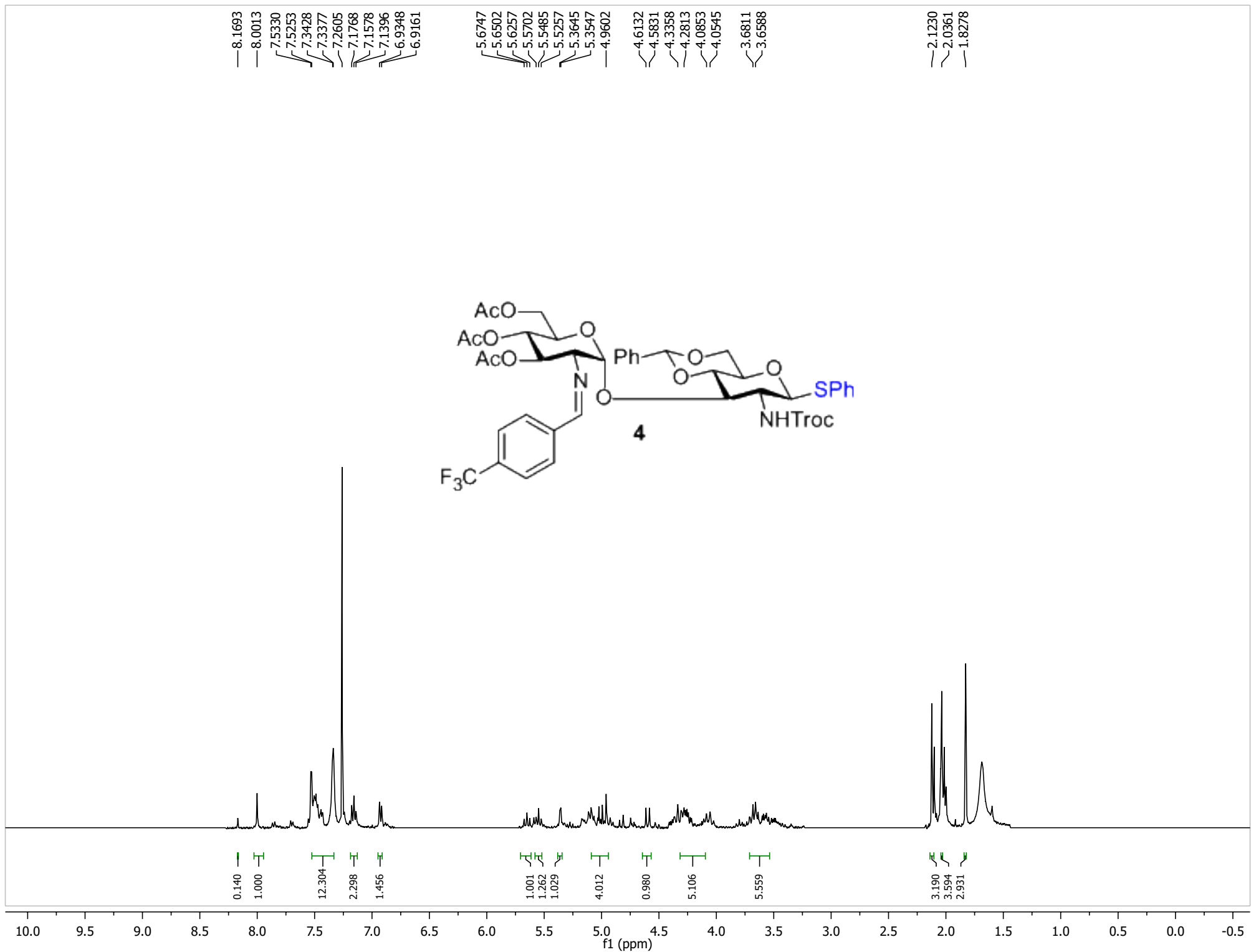


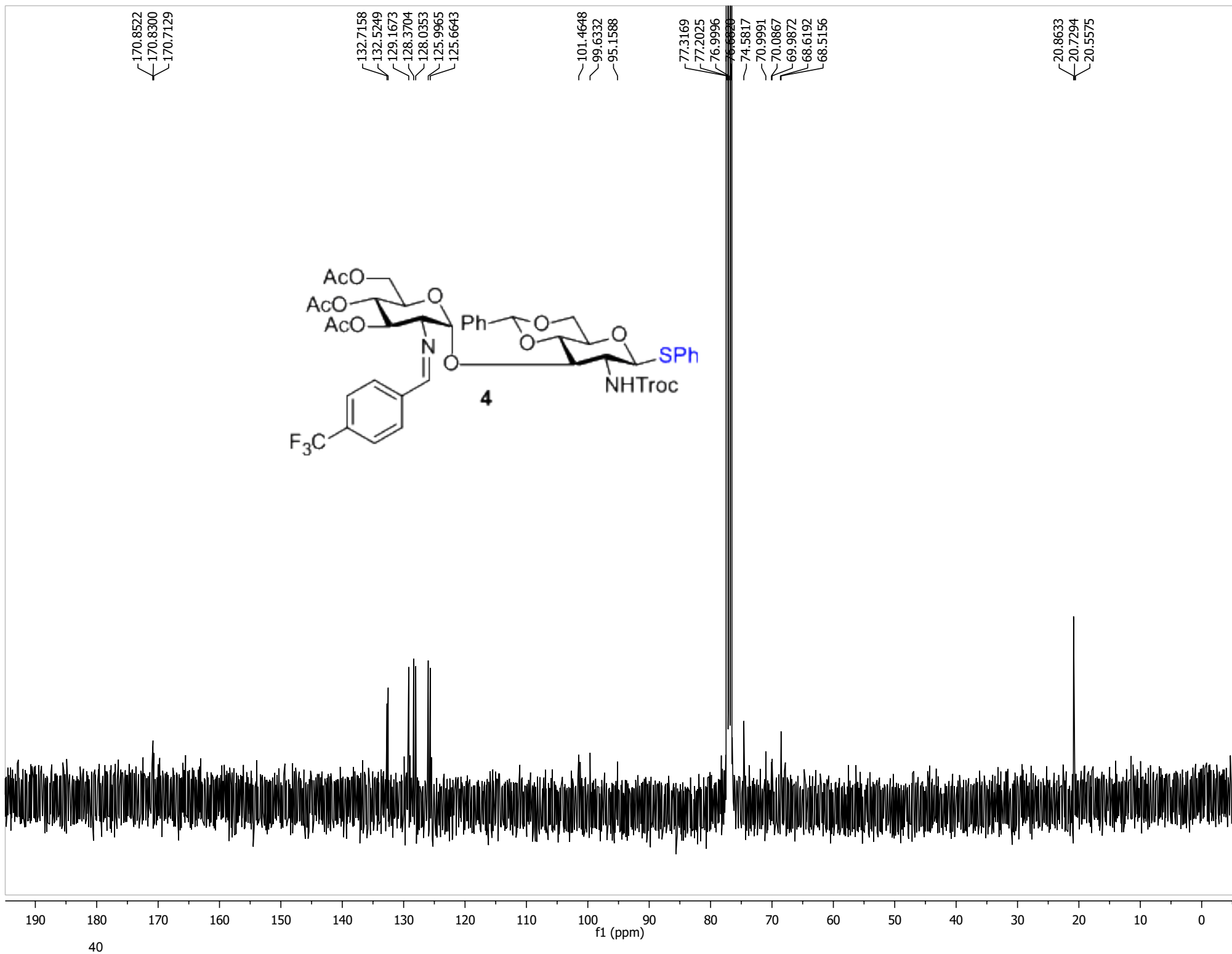


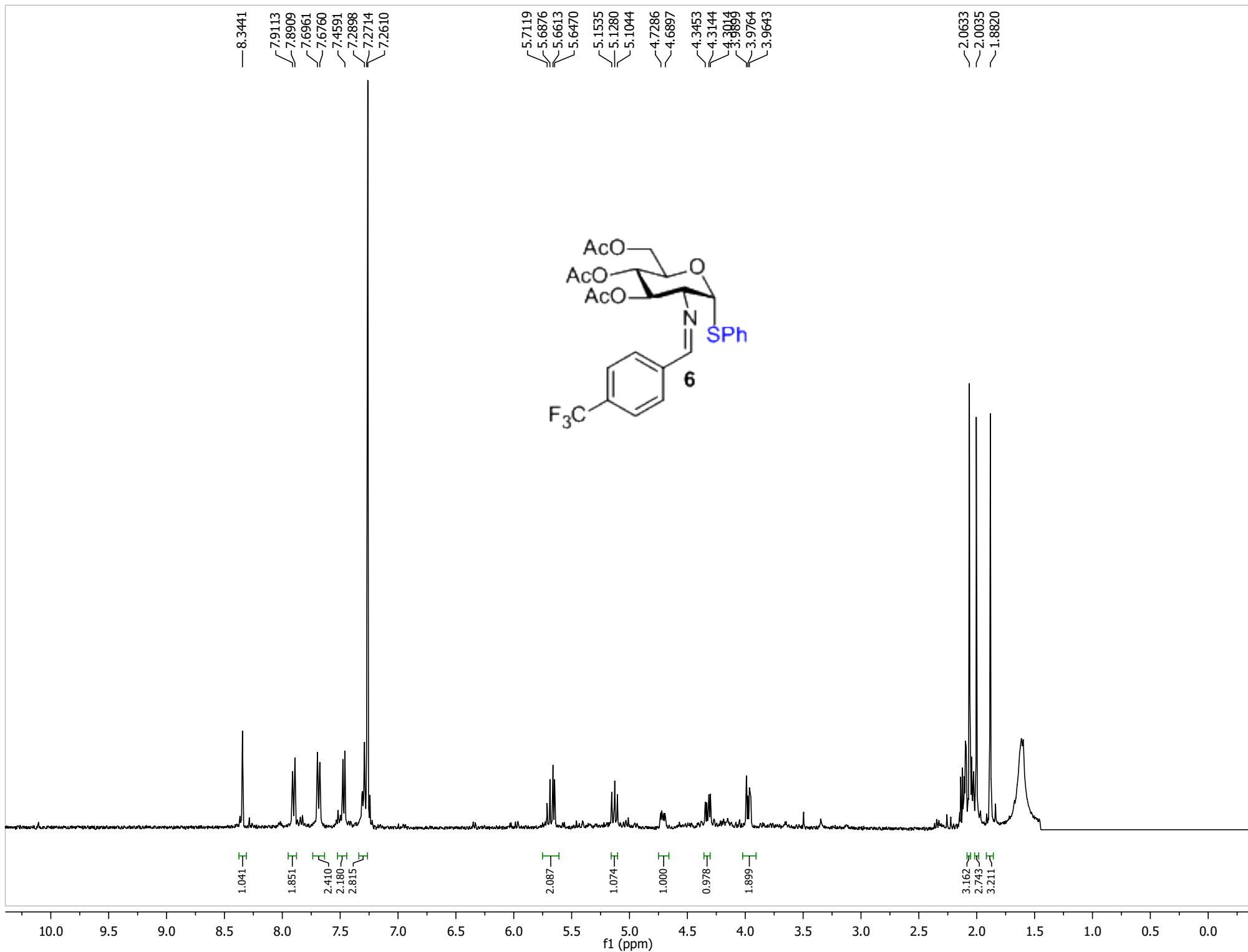


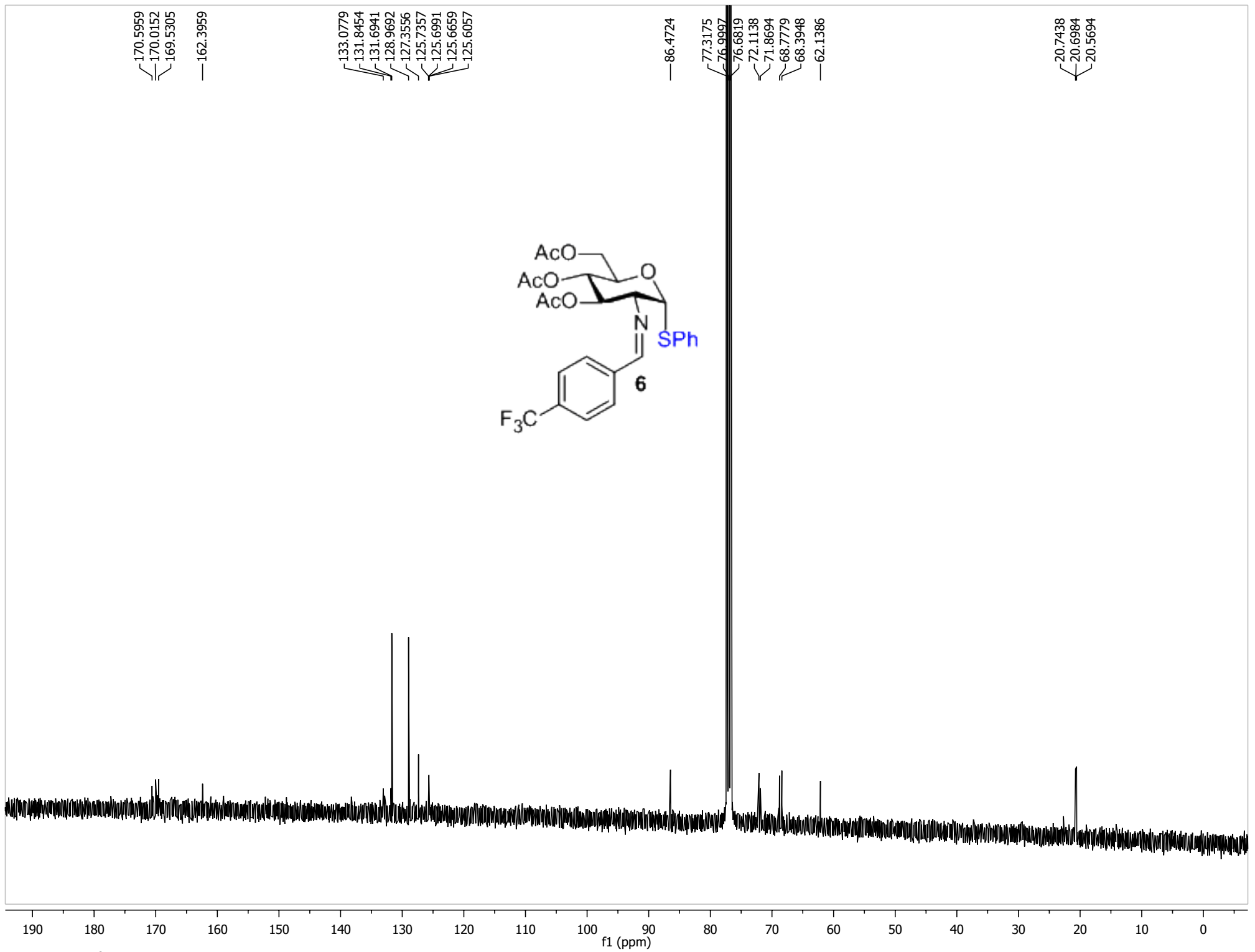


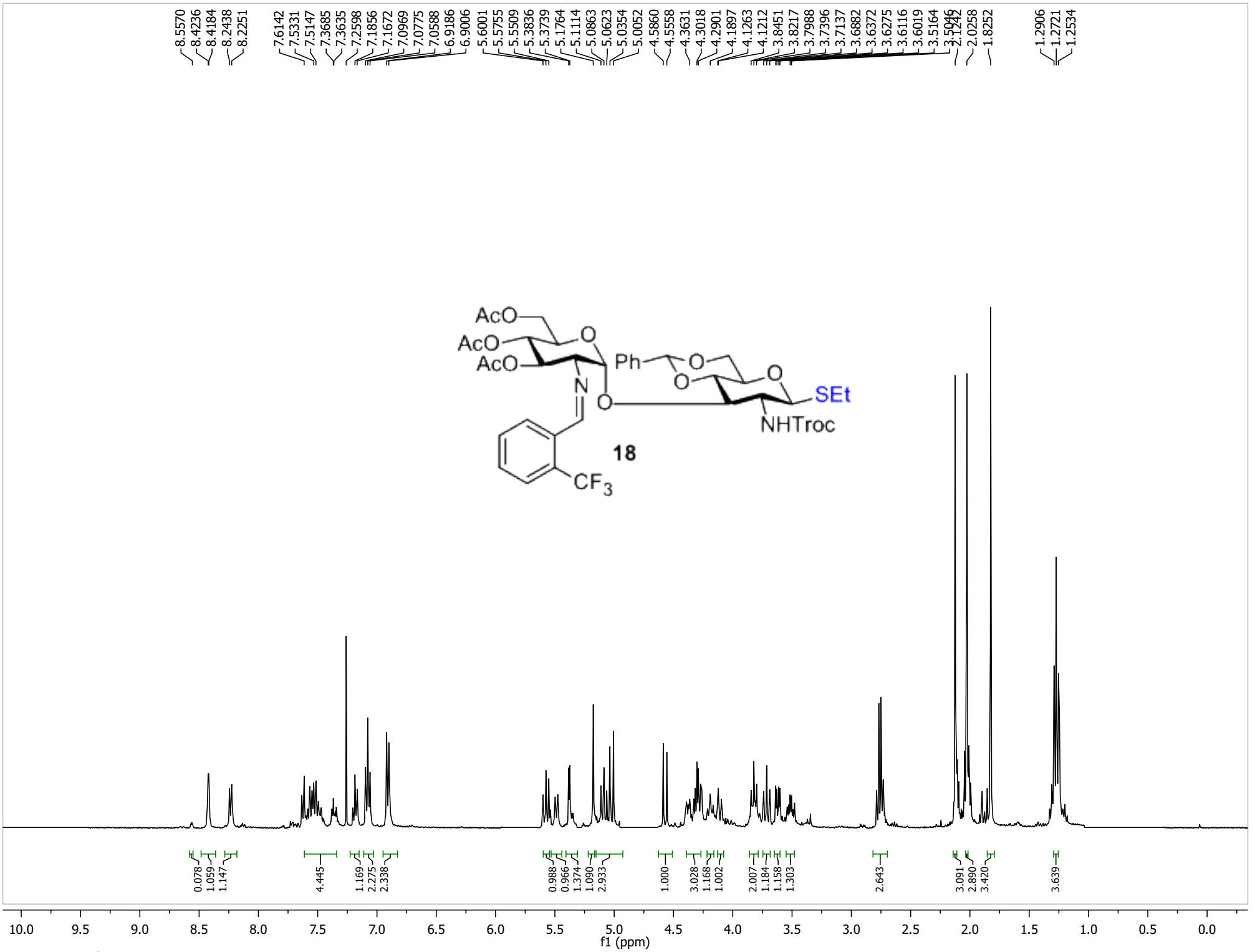


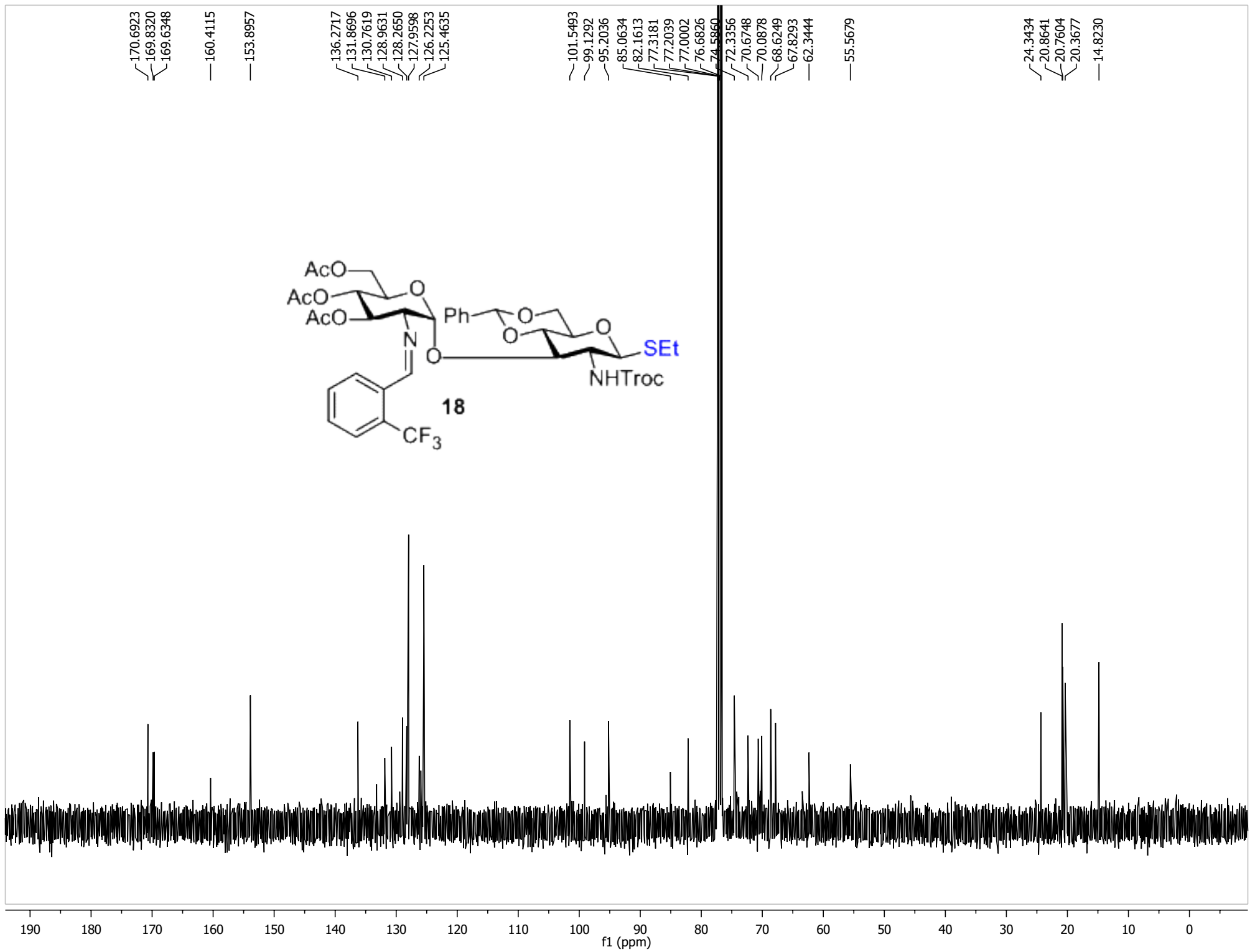


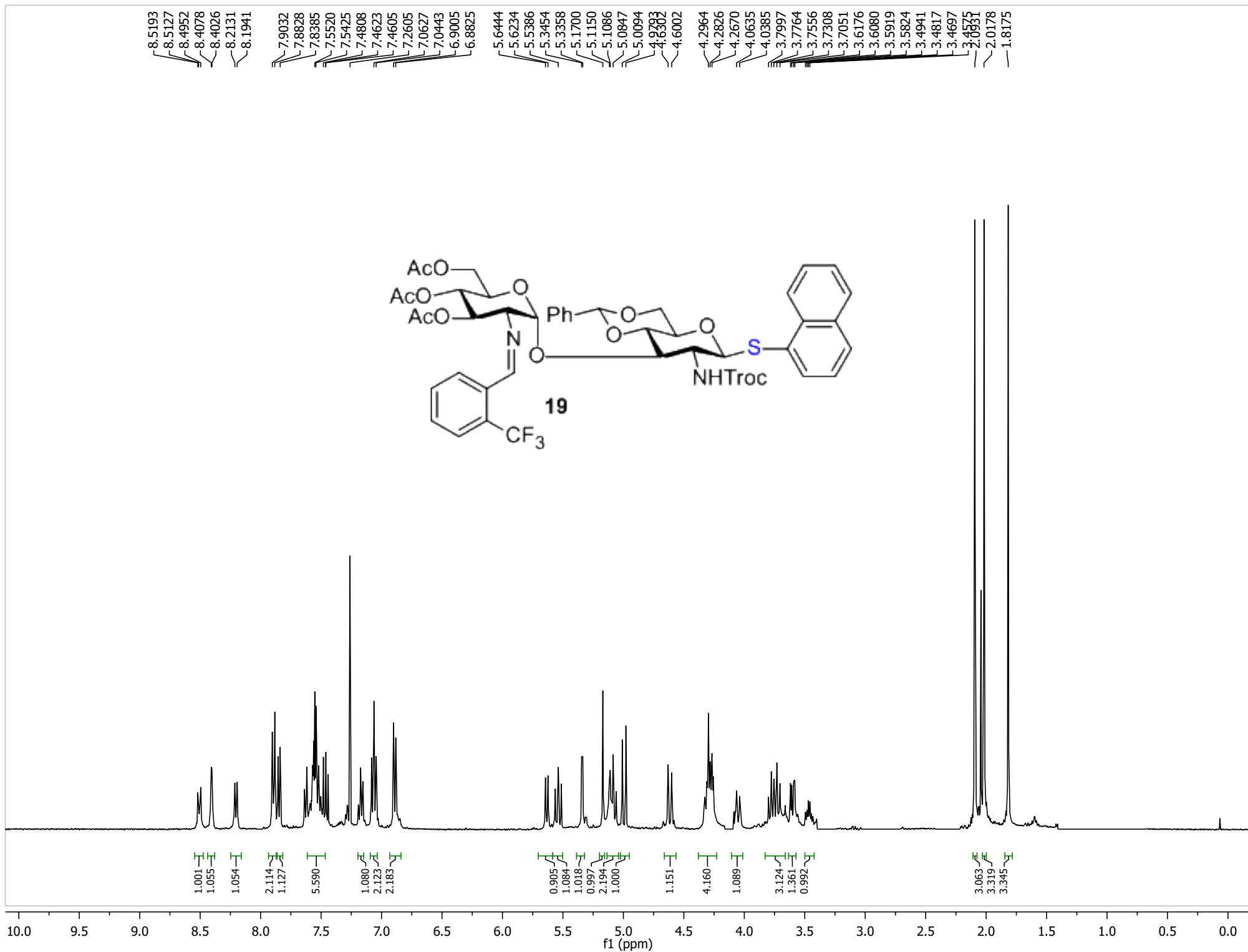


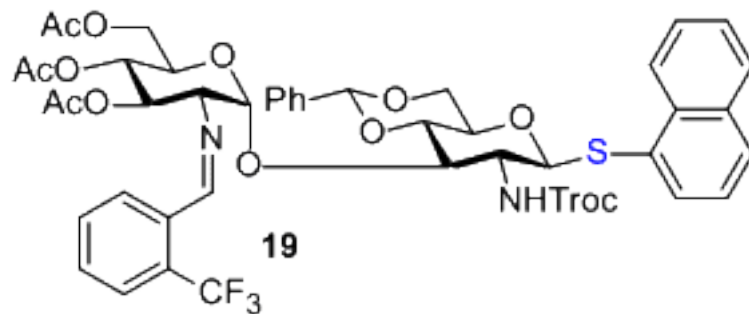












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153.7391

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129.7189
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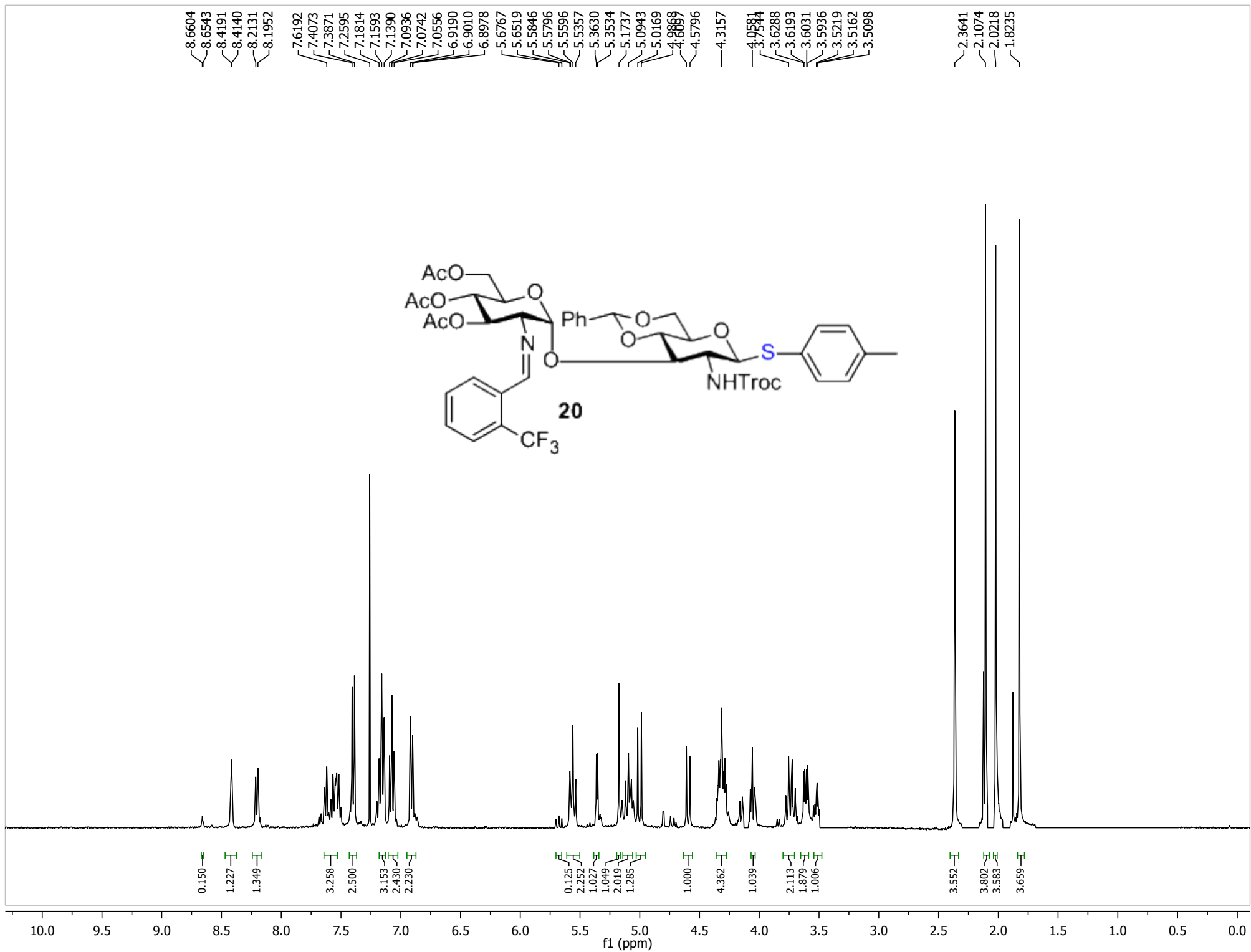
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f1 (ppm)



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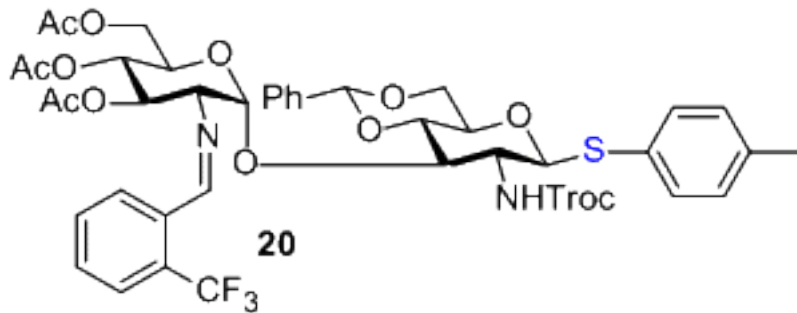
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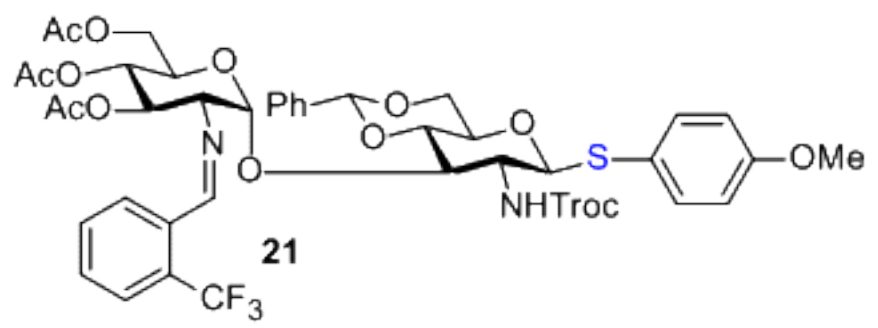


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f1 (ppm)

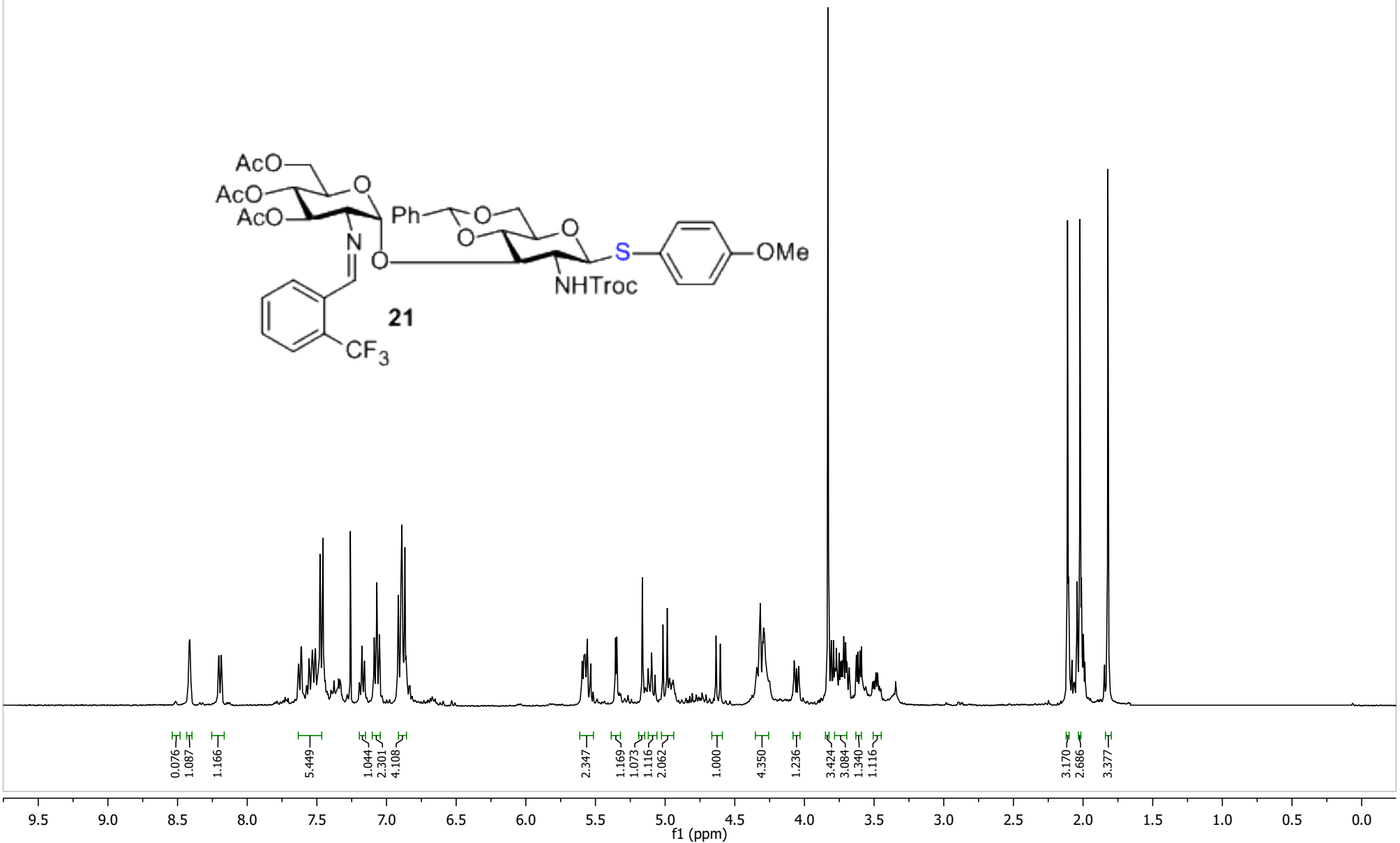
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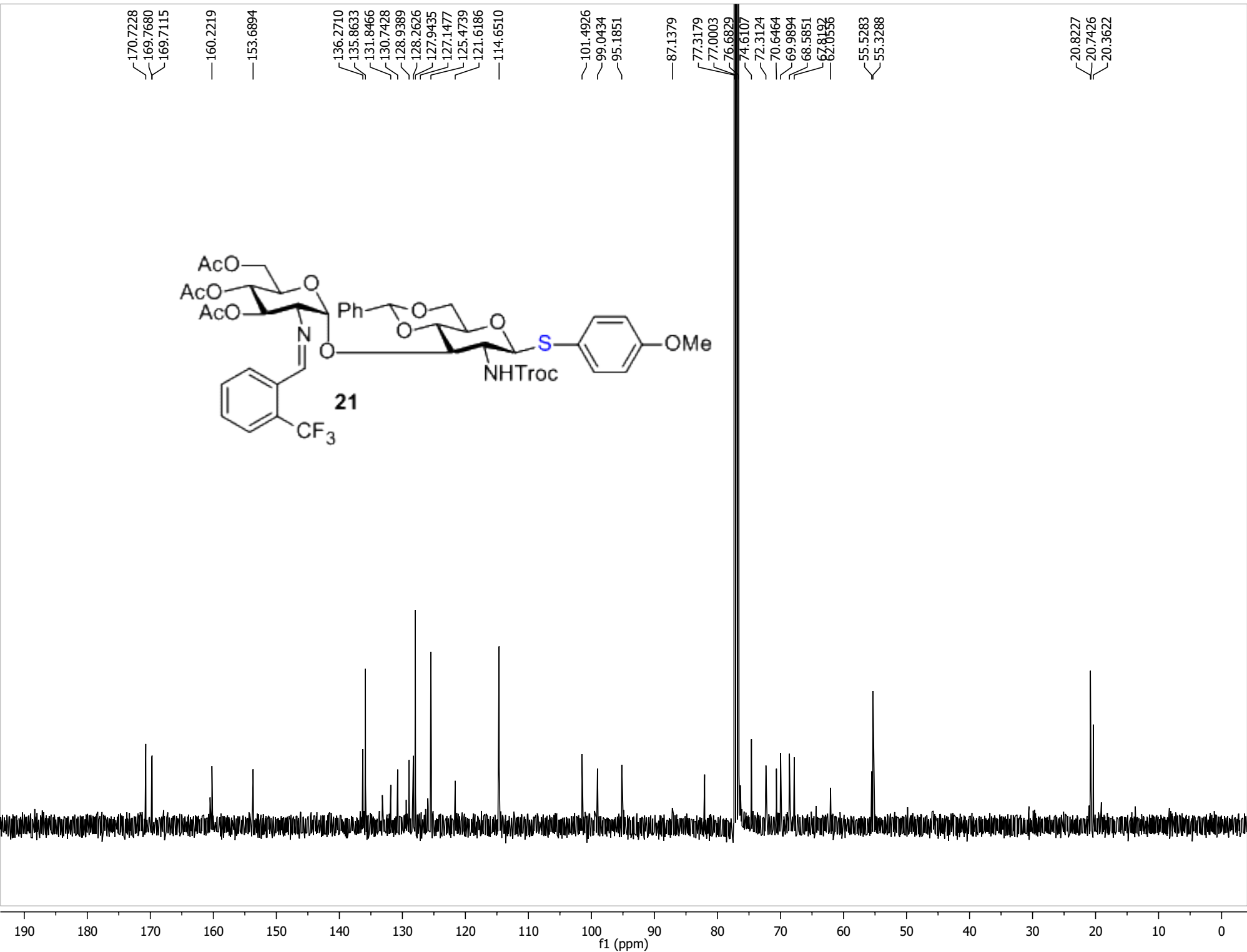
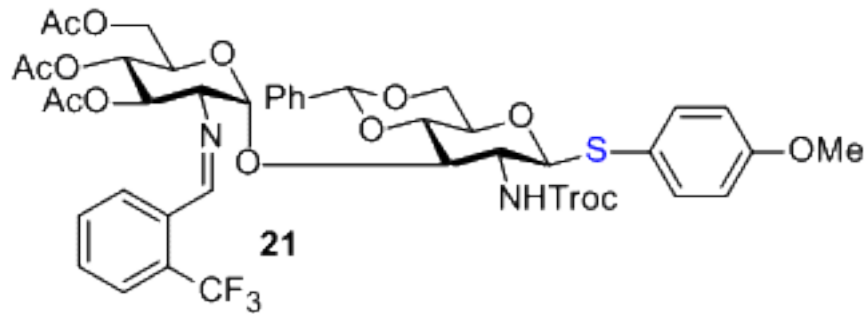
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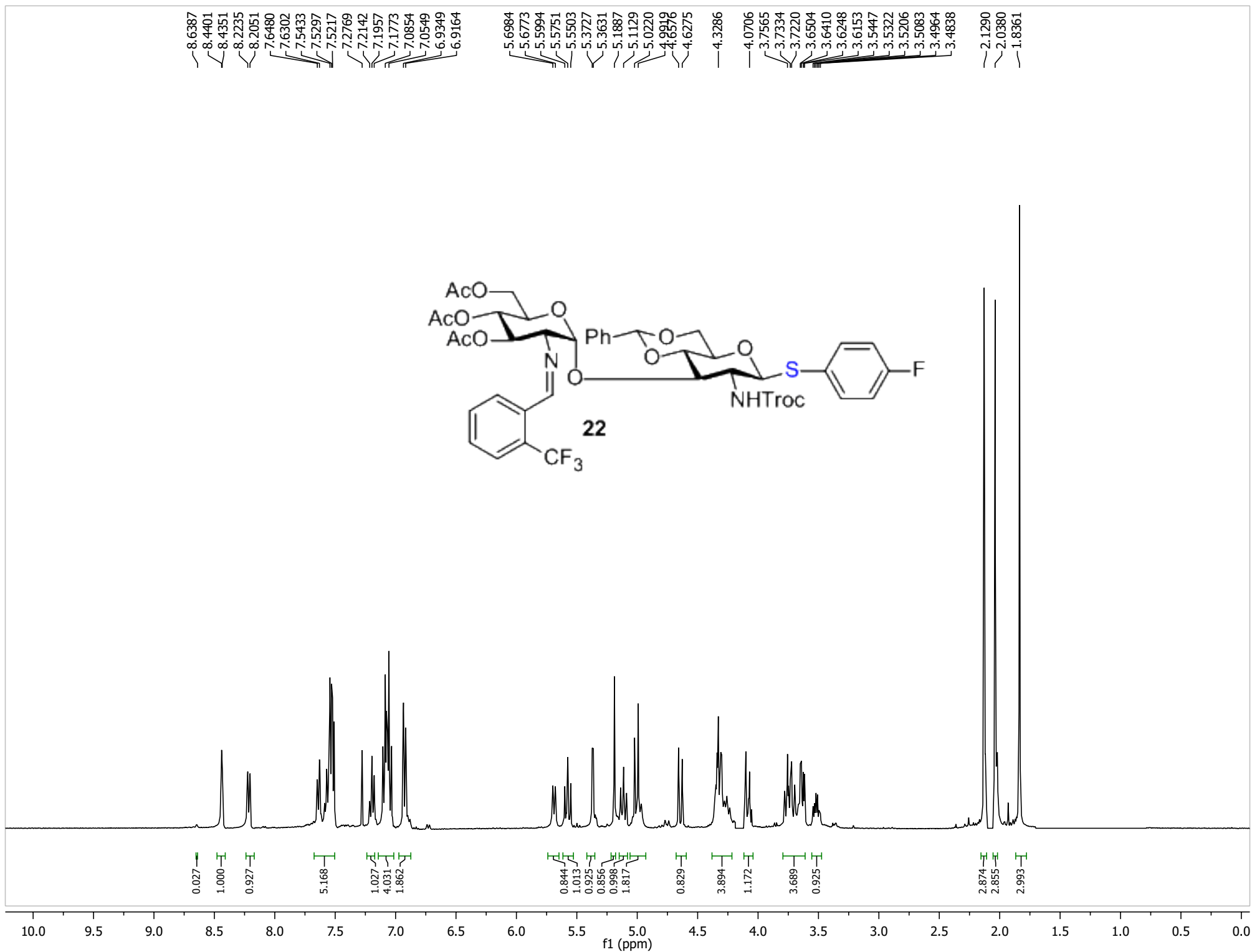
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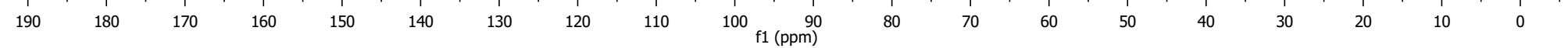
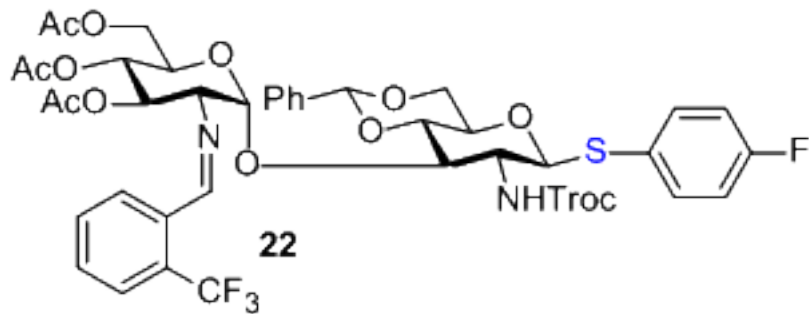
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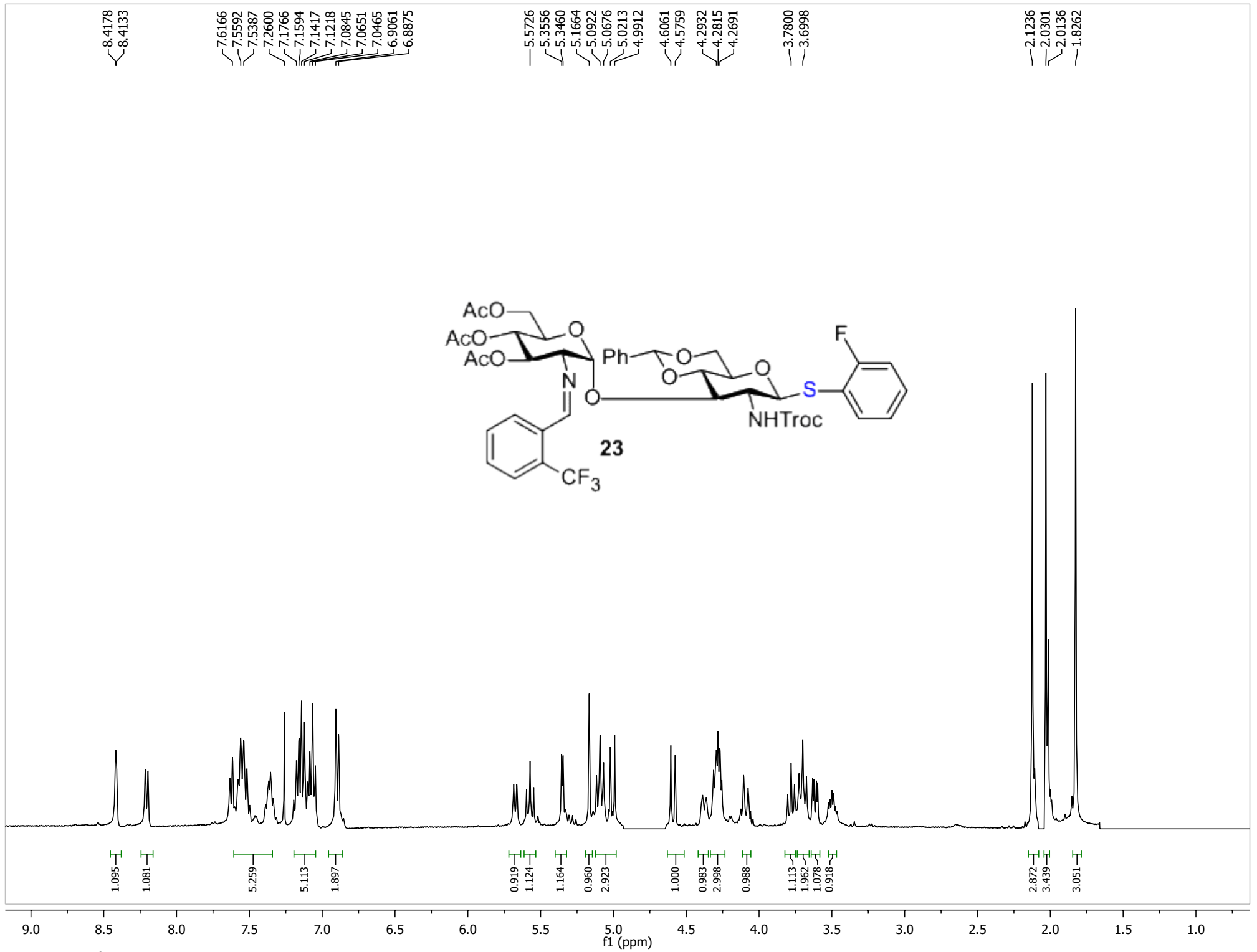
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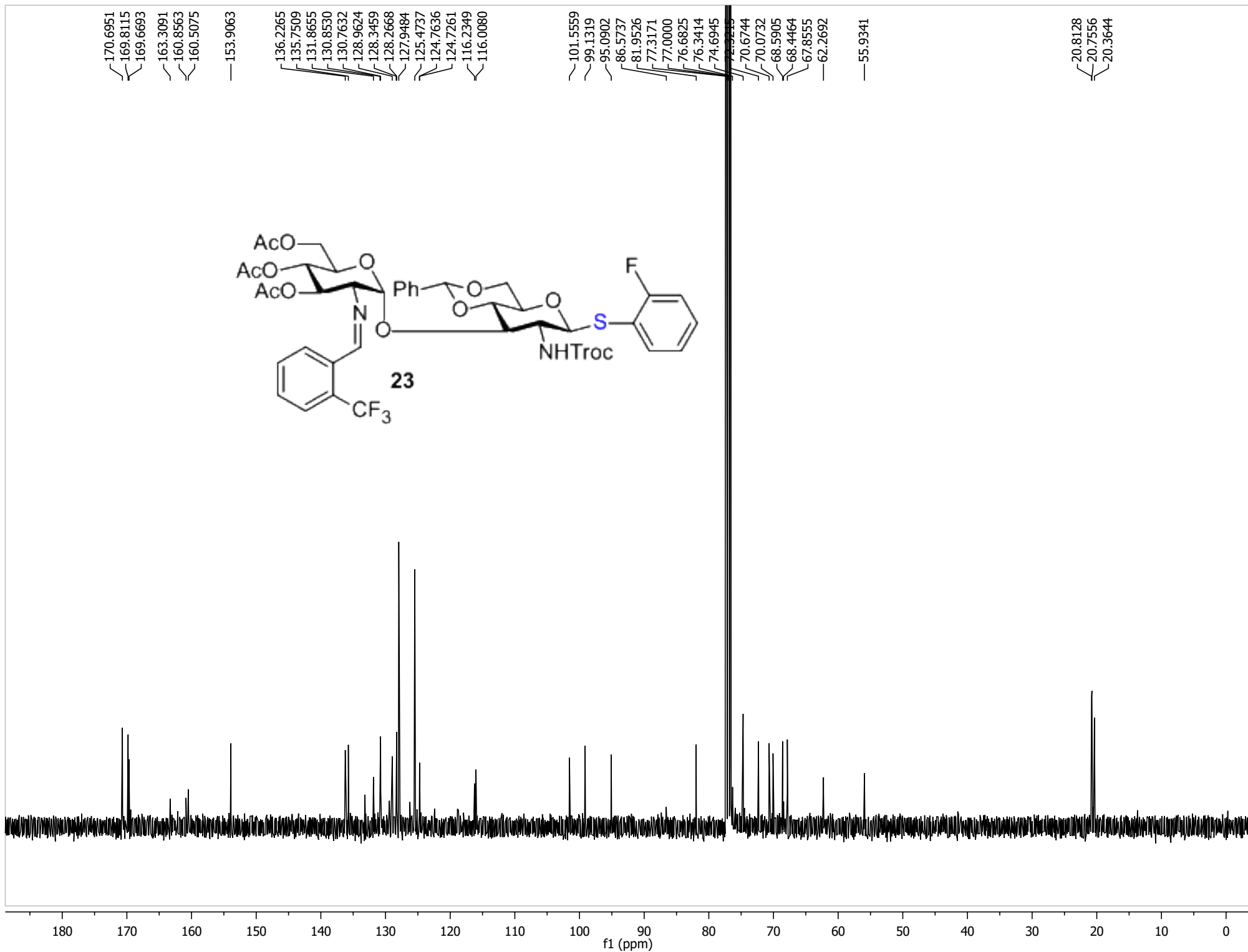
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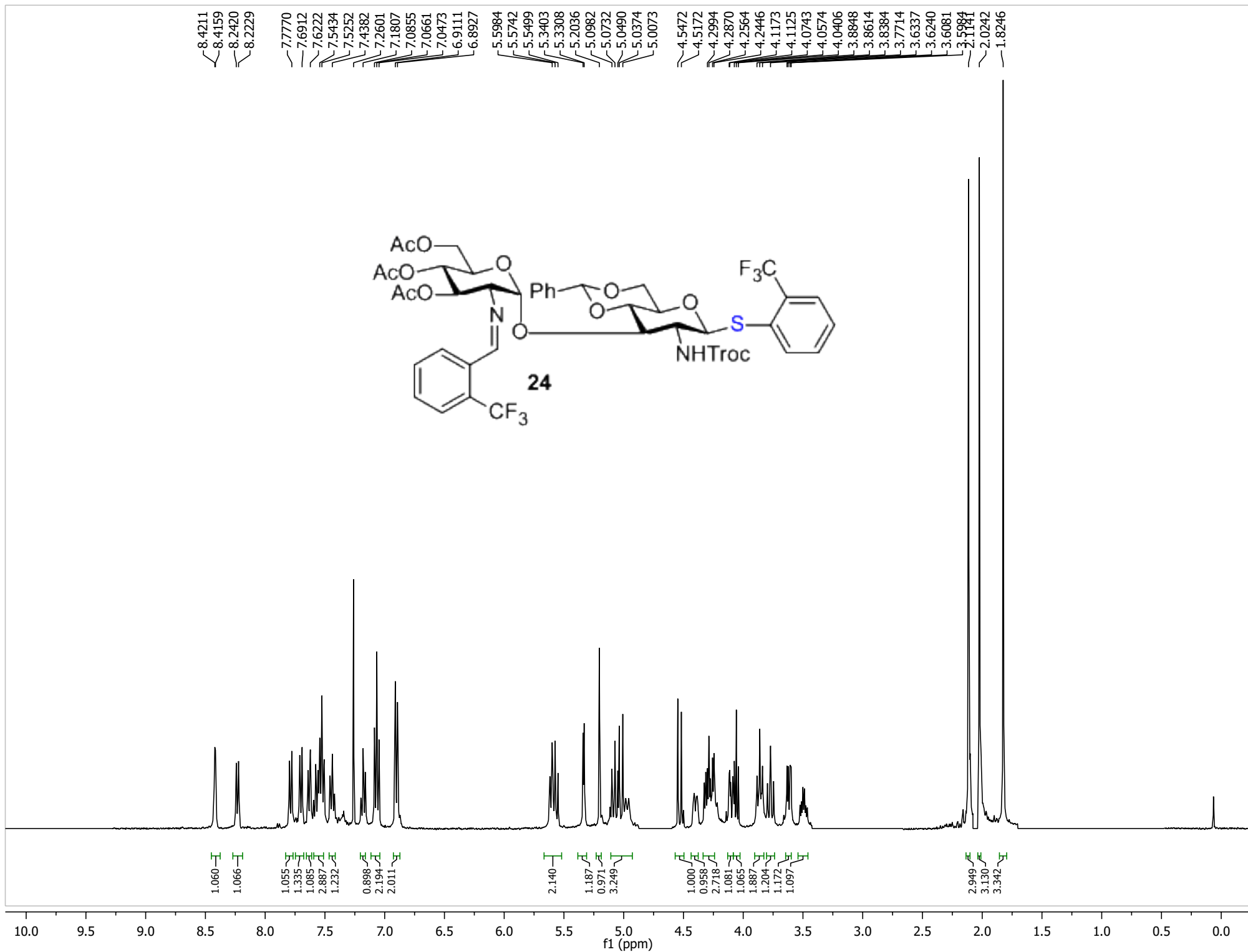
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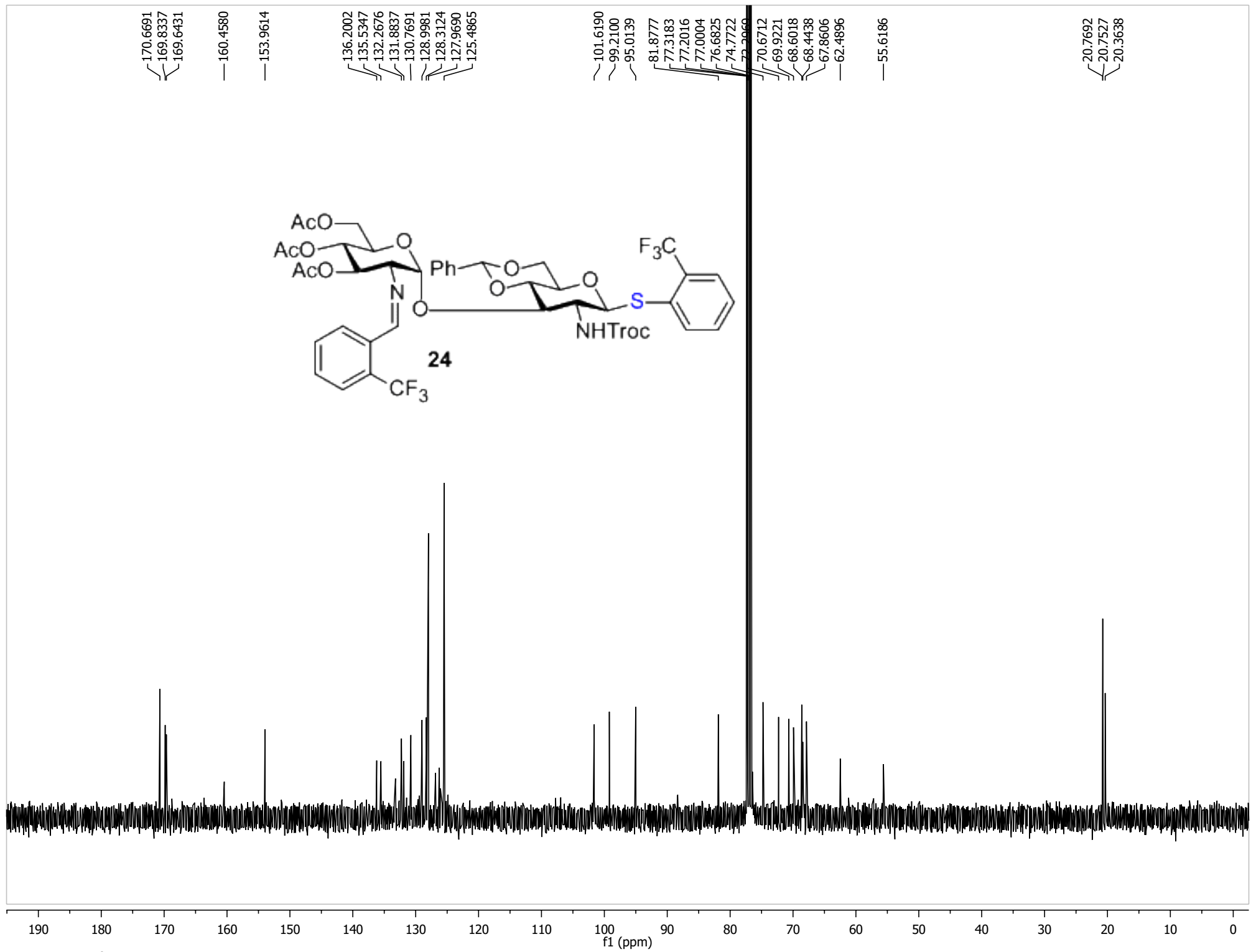
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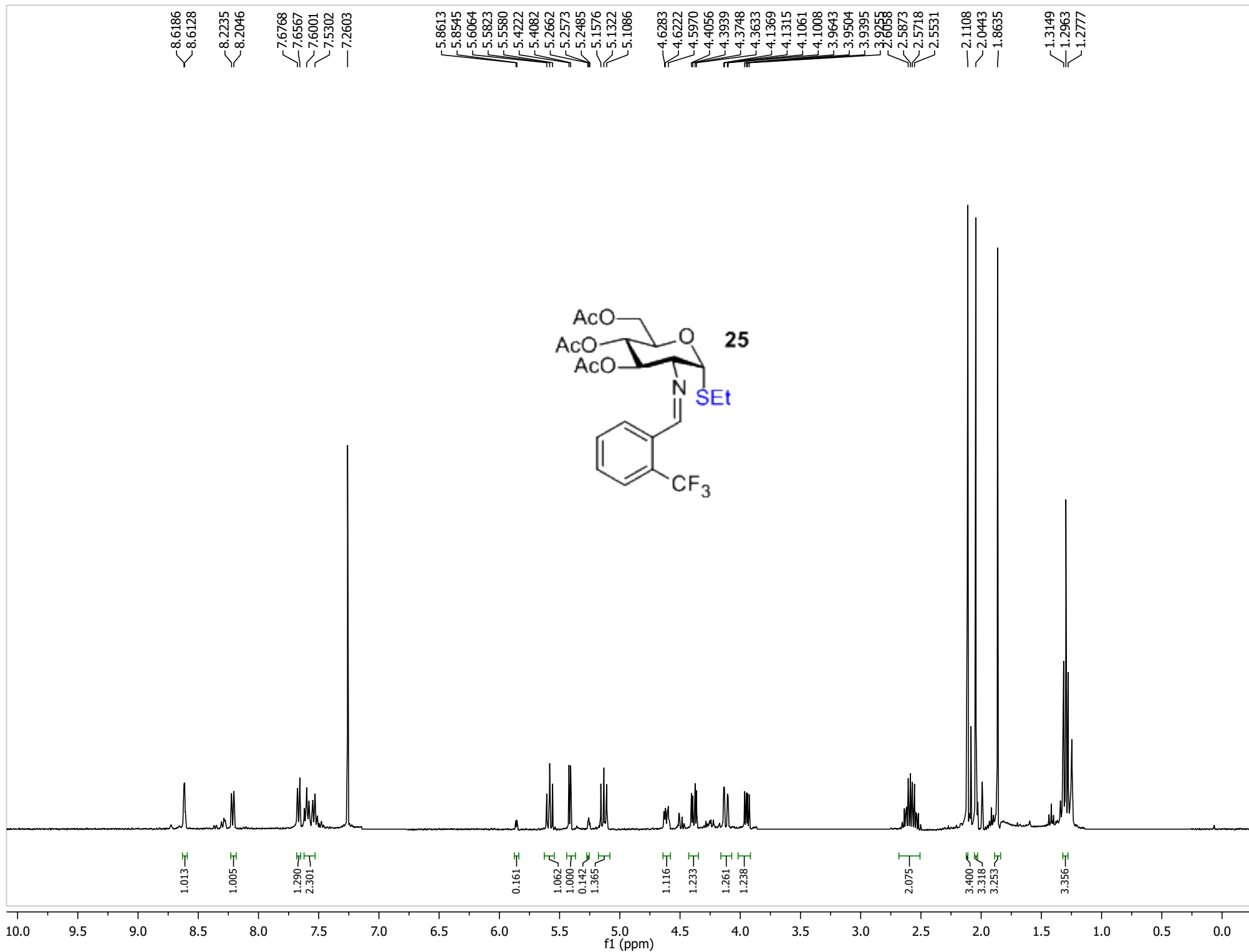


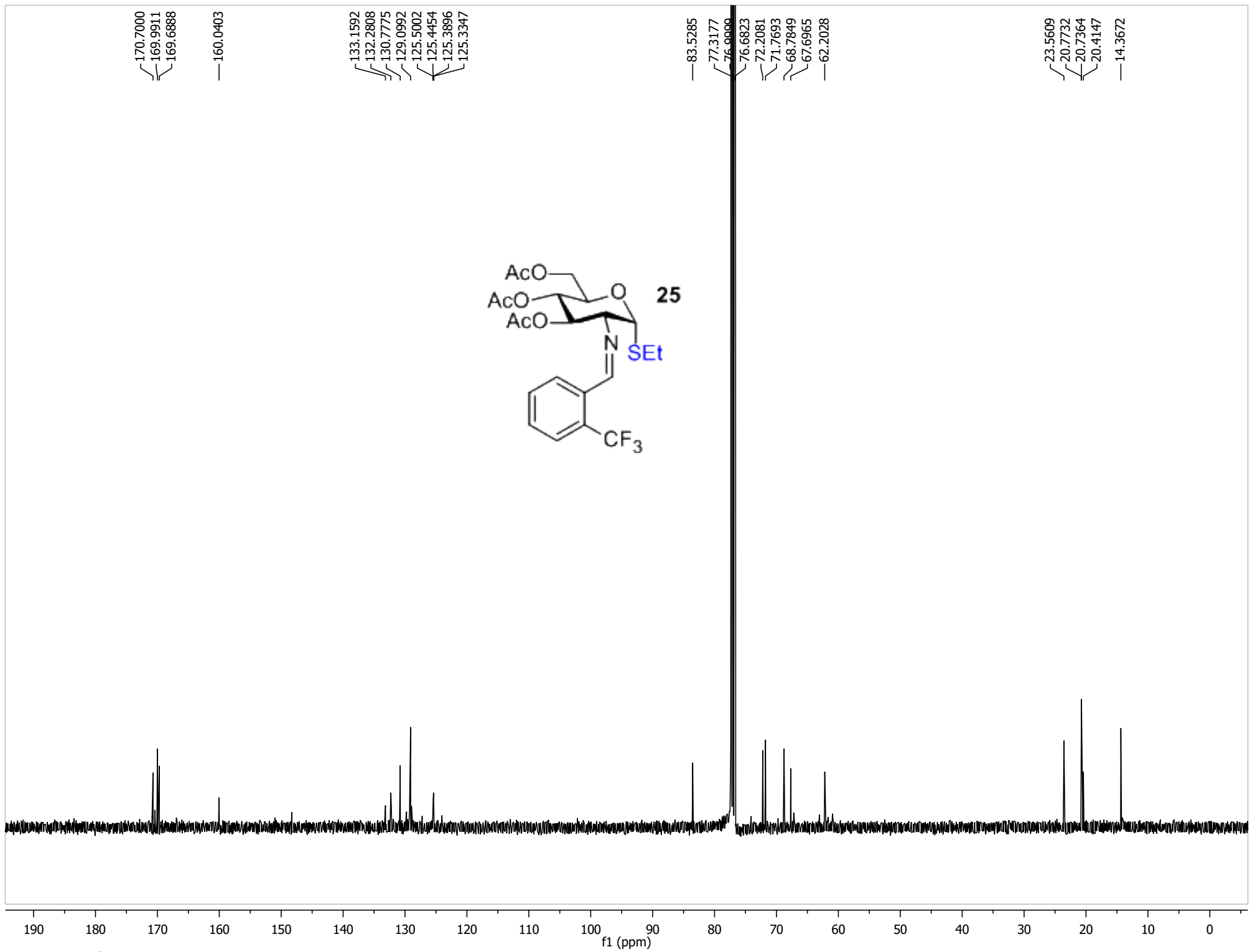


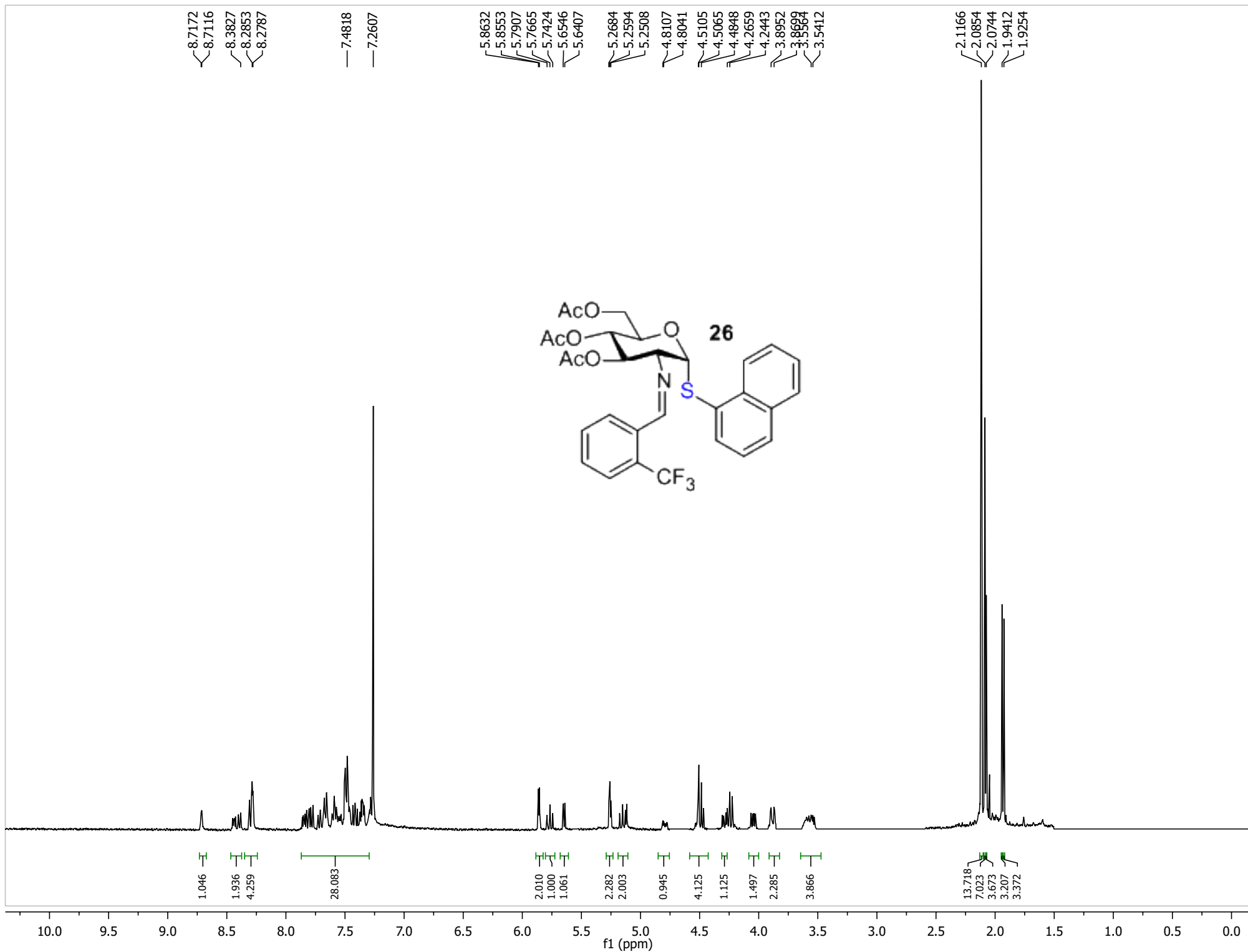


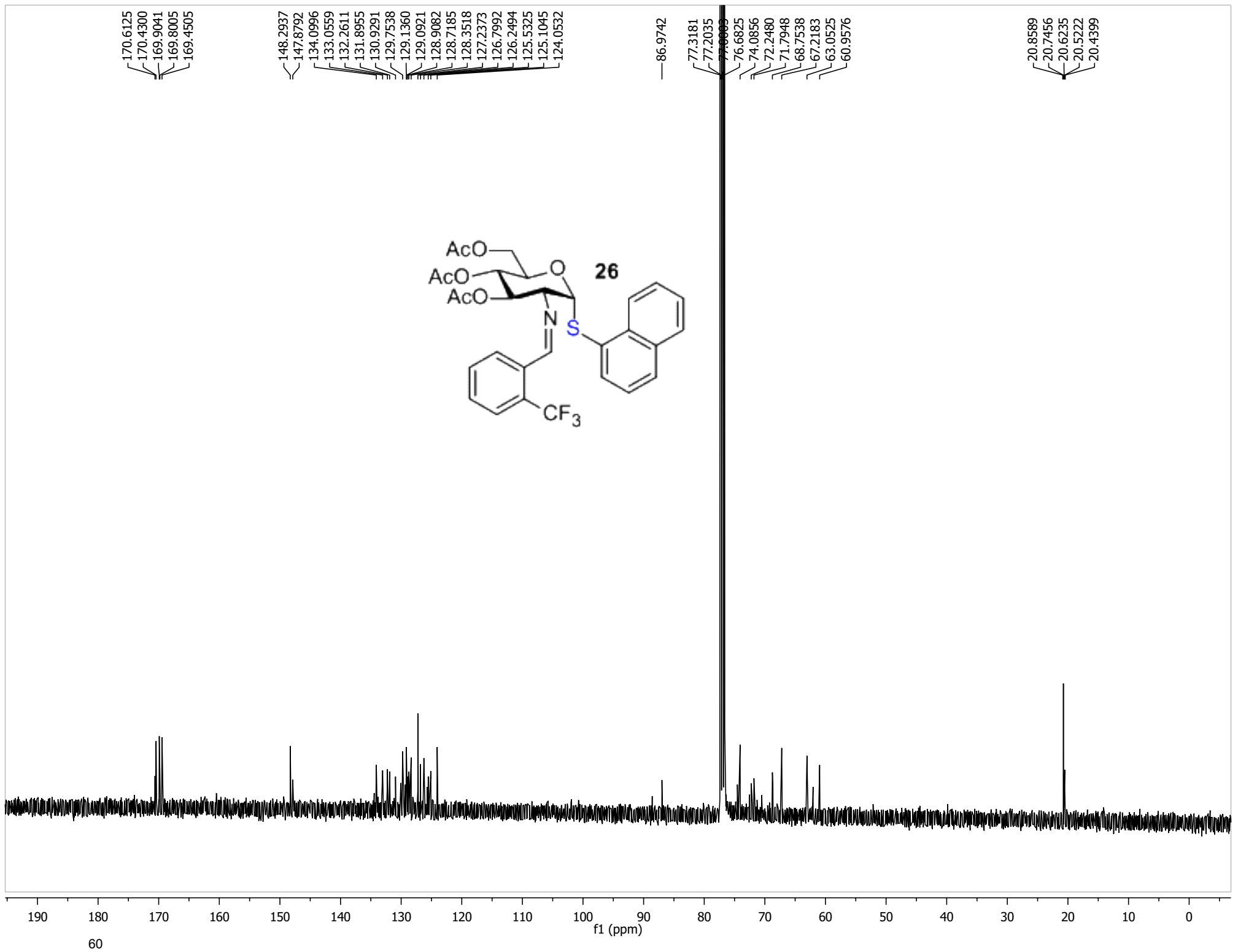


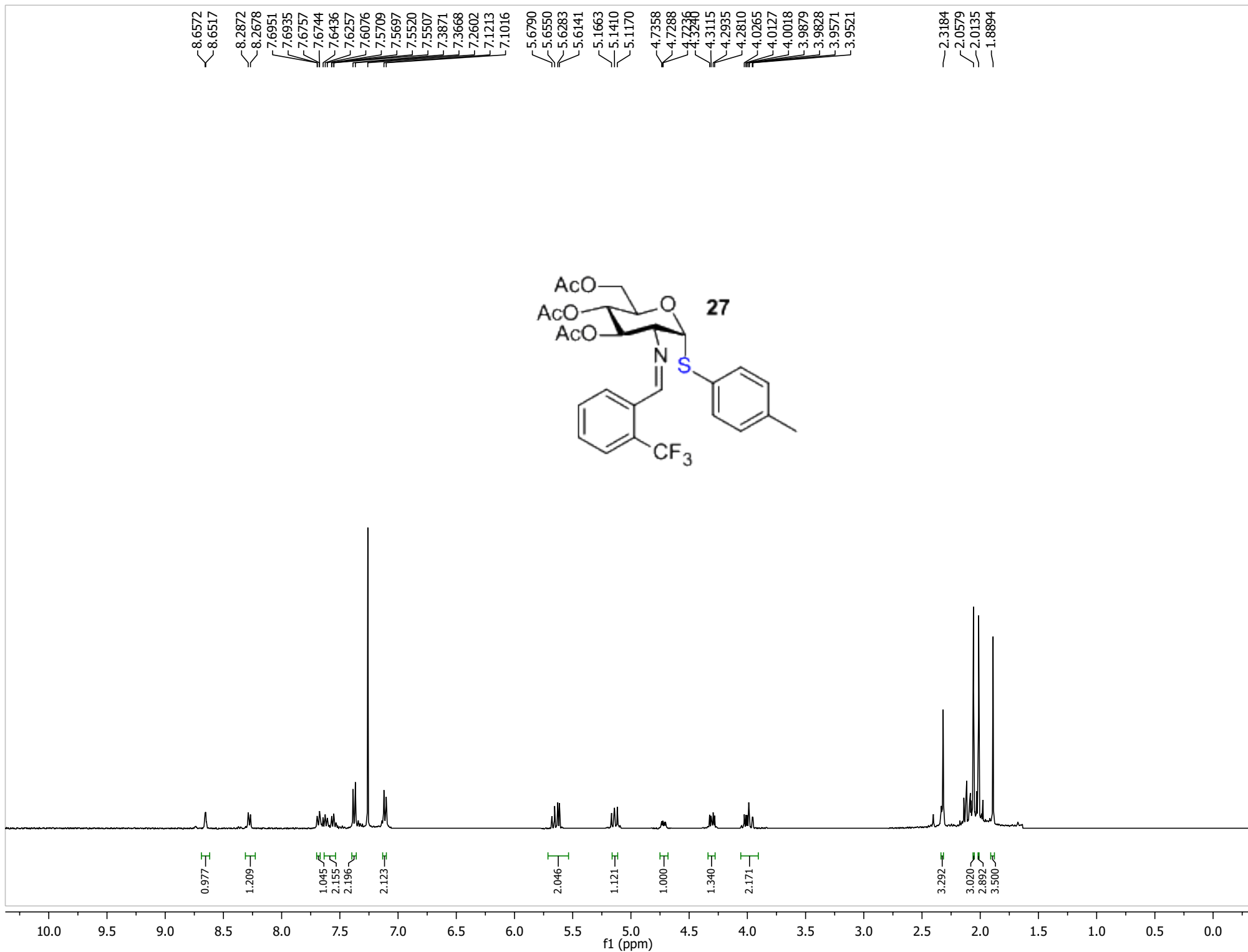


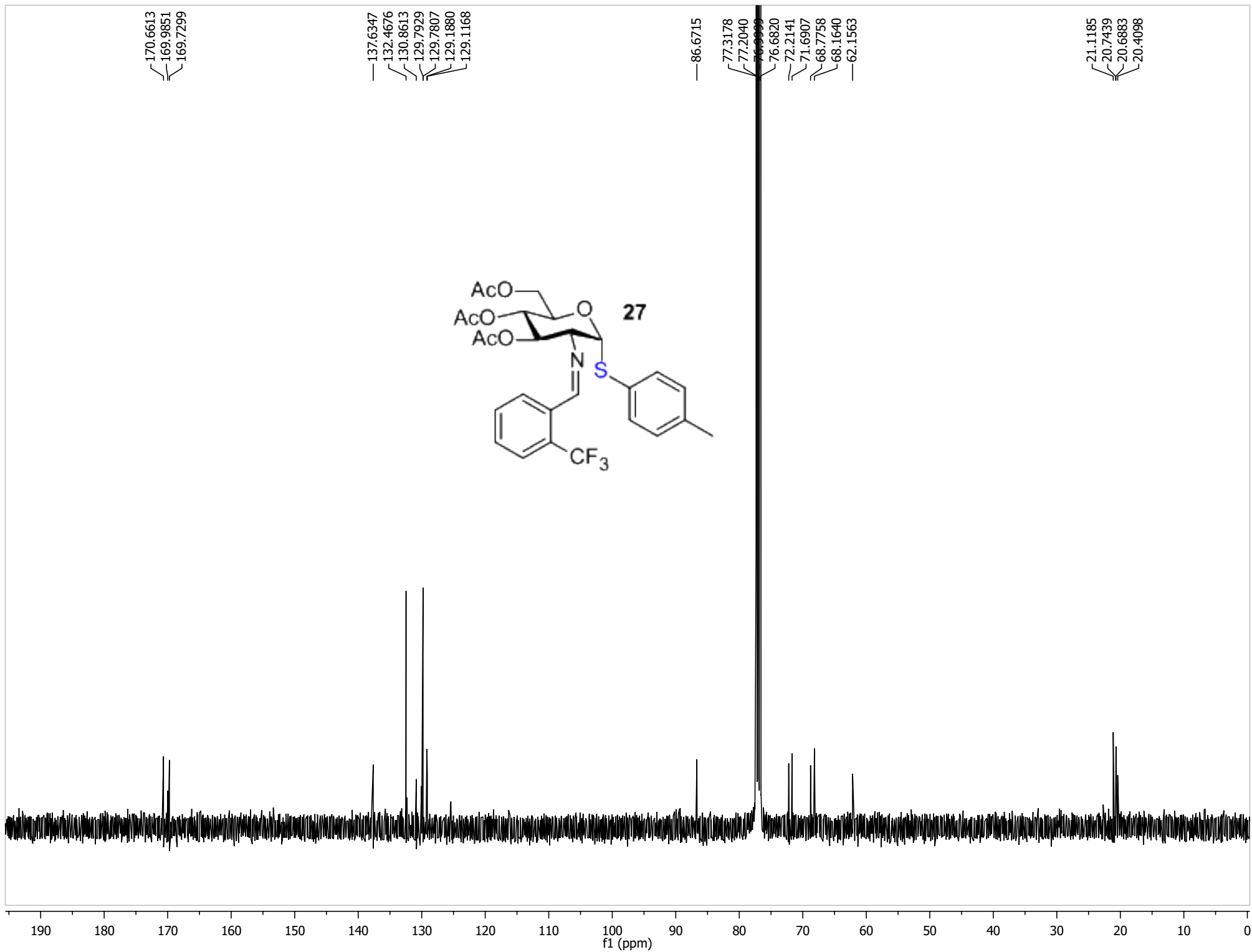


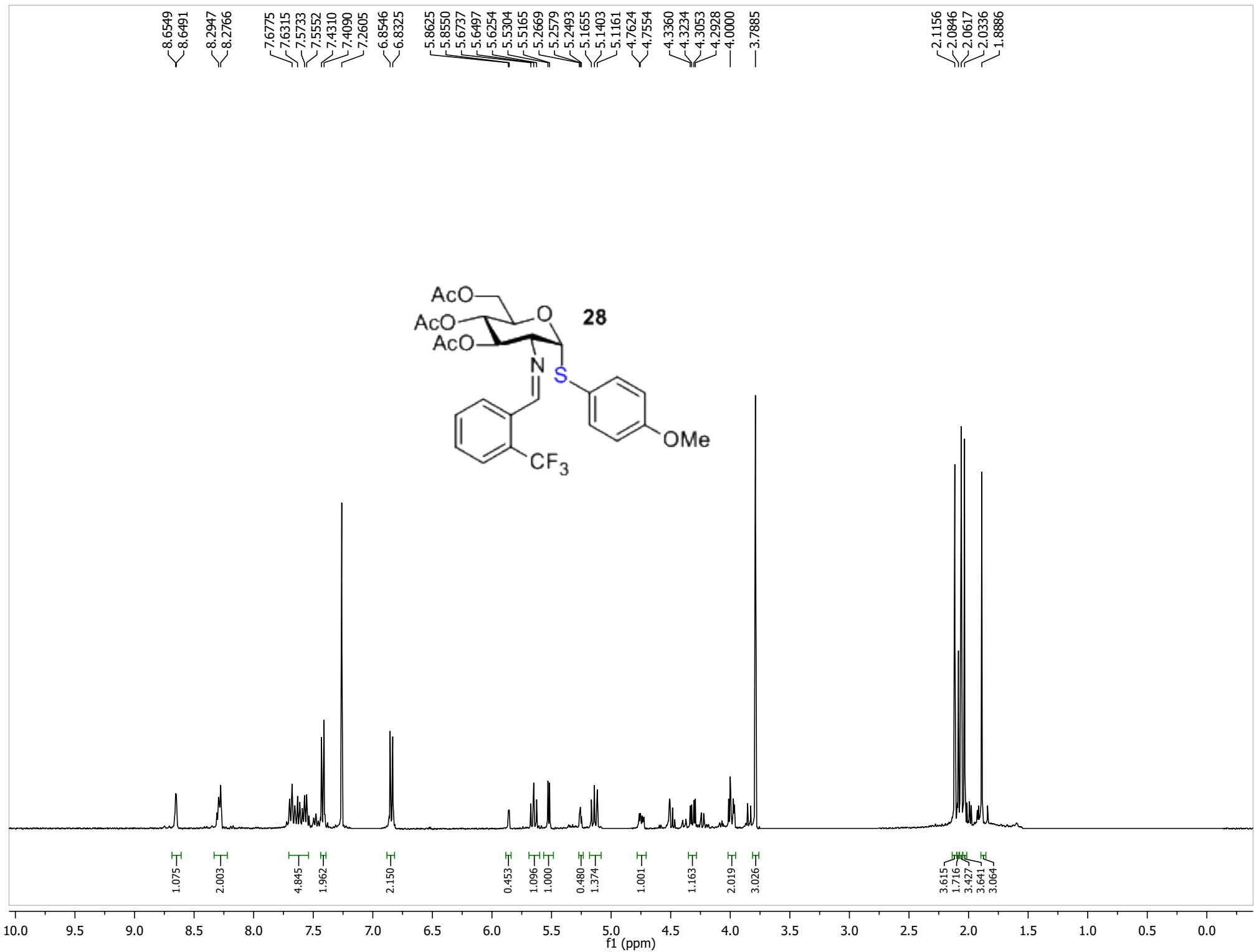


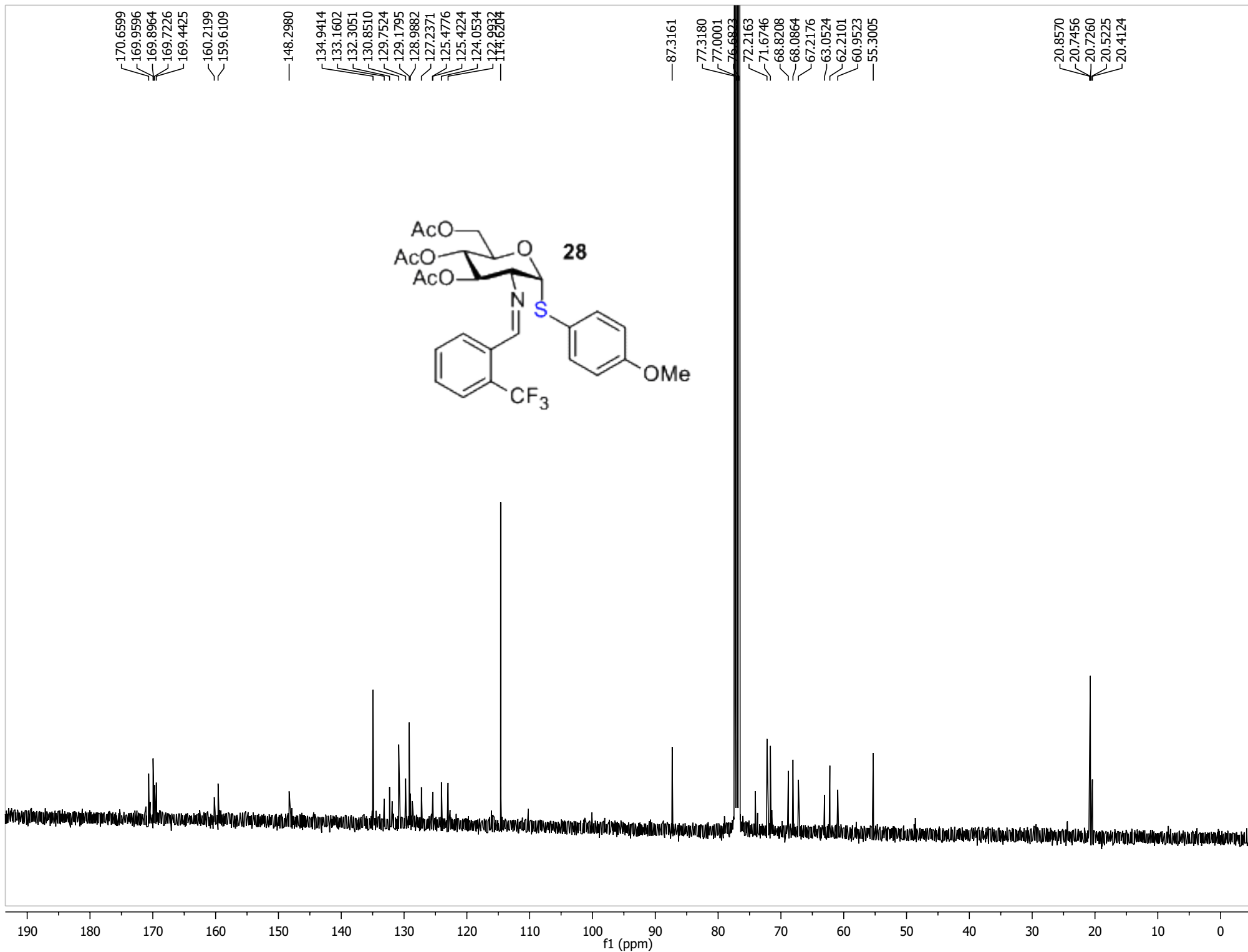


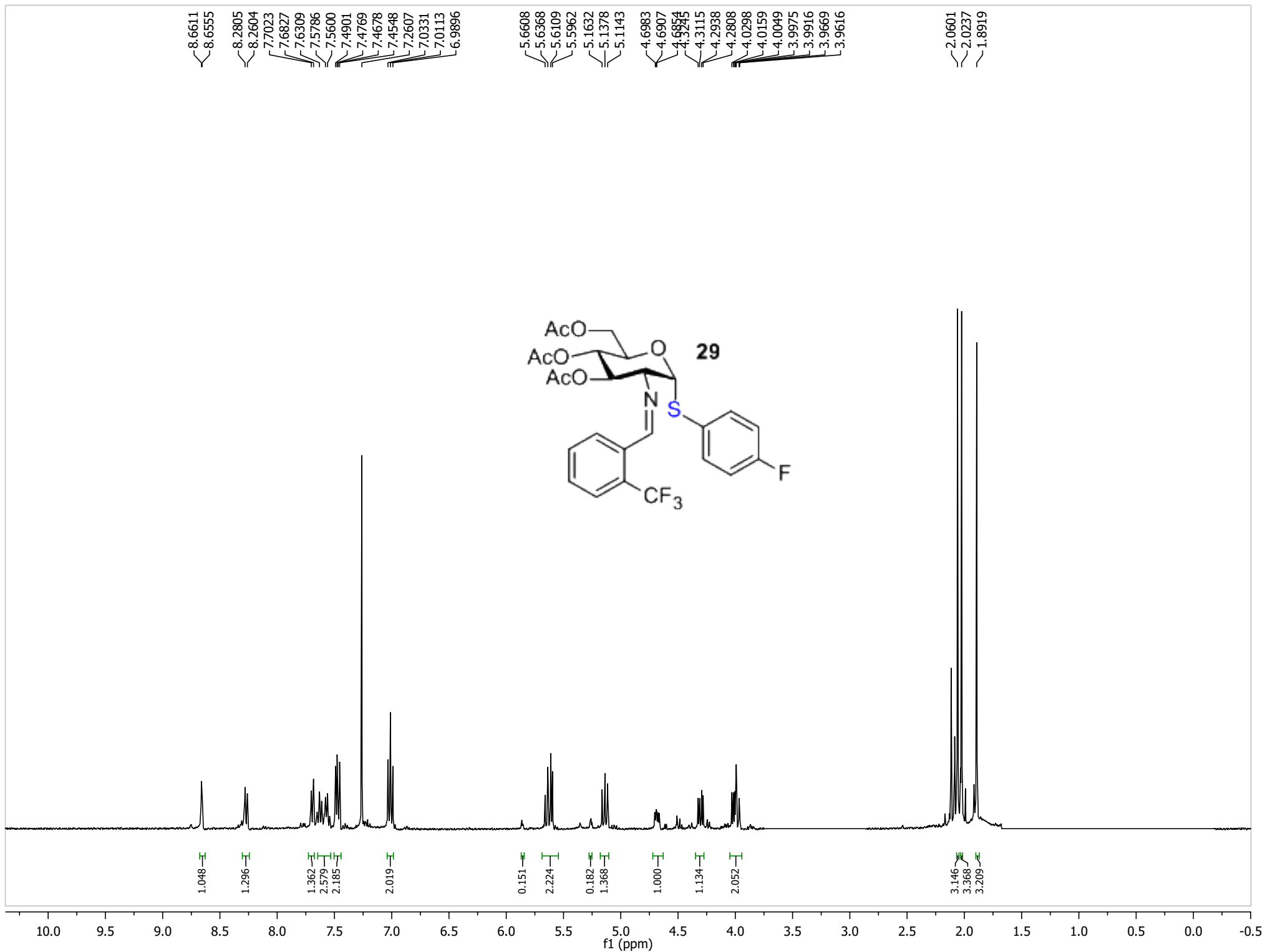


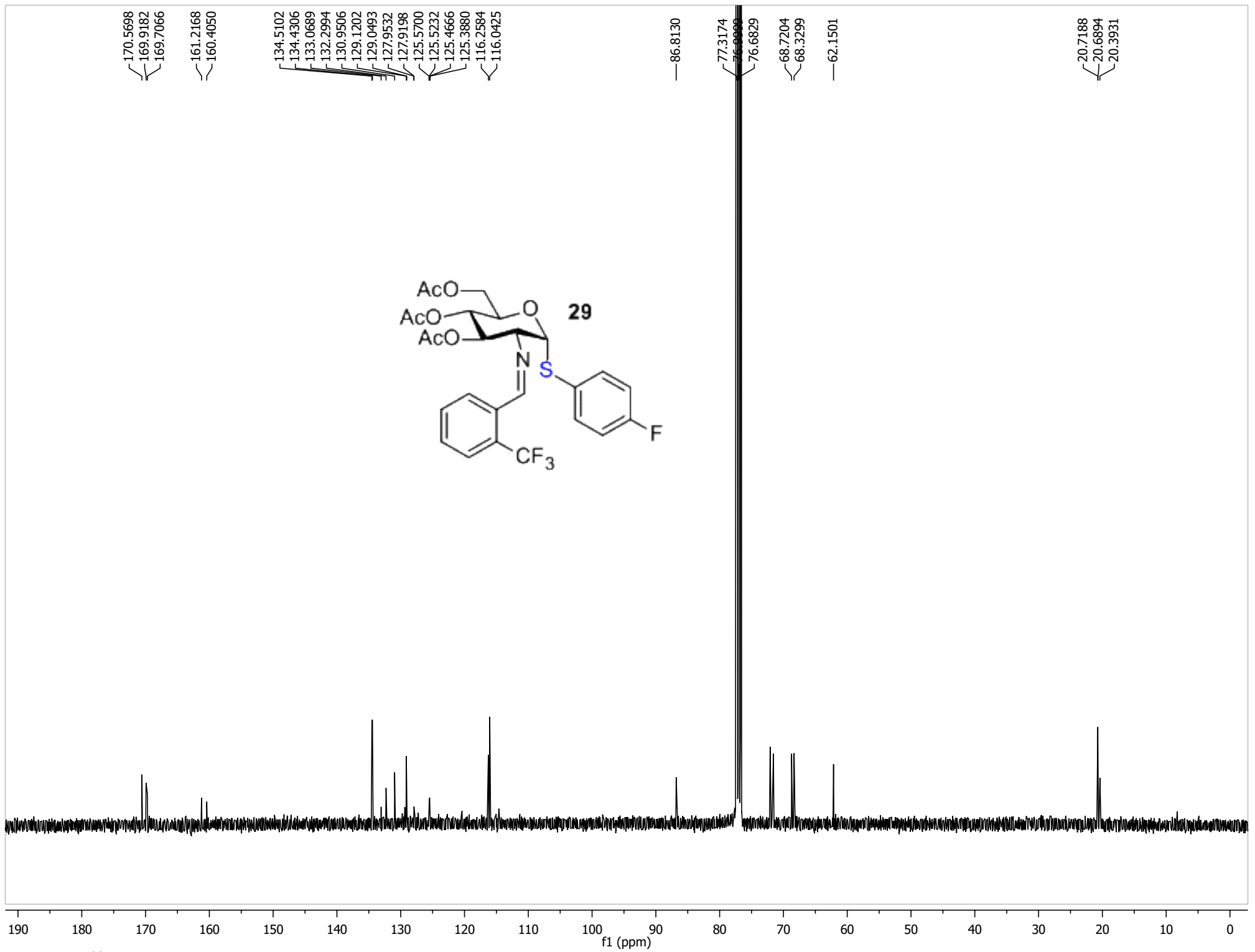


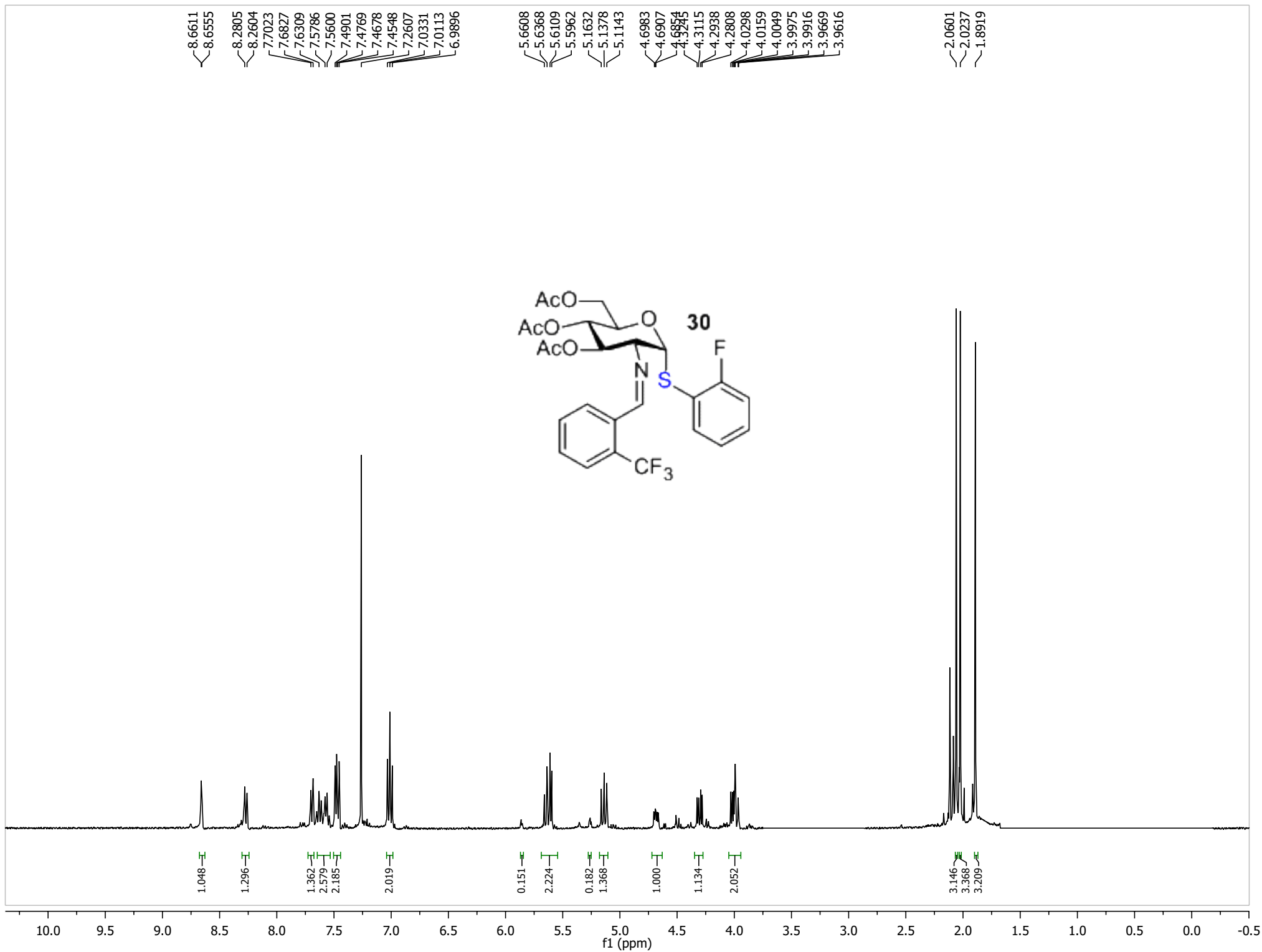


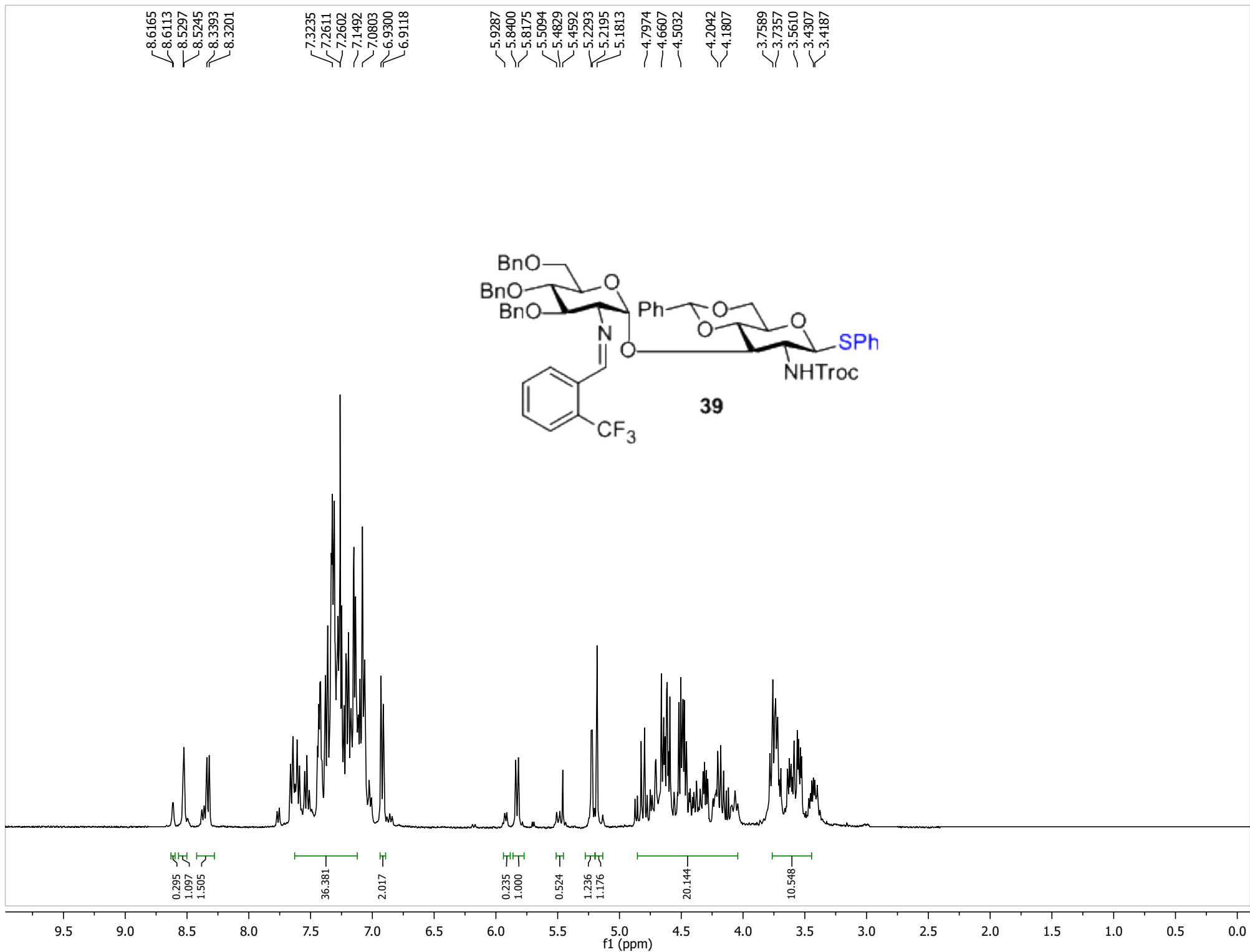


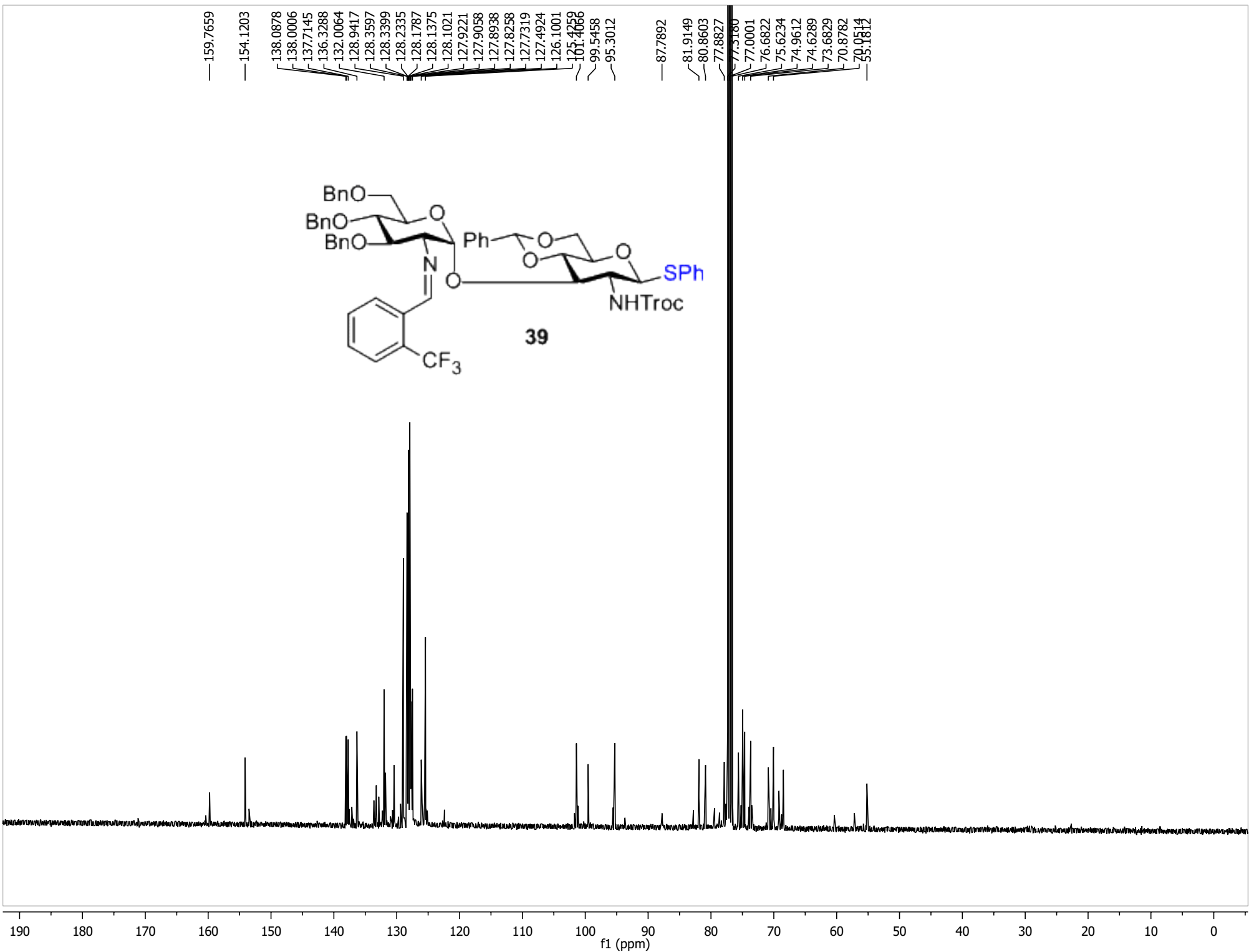


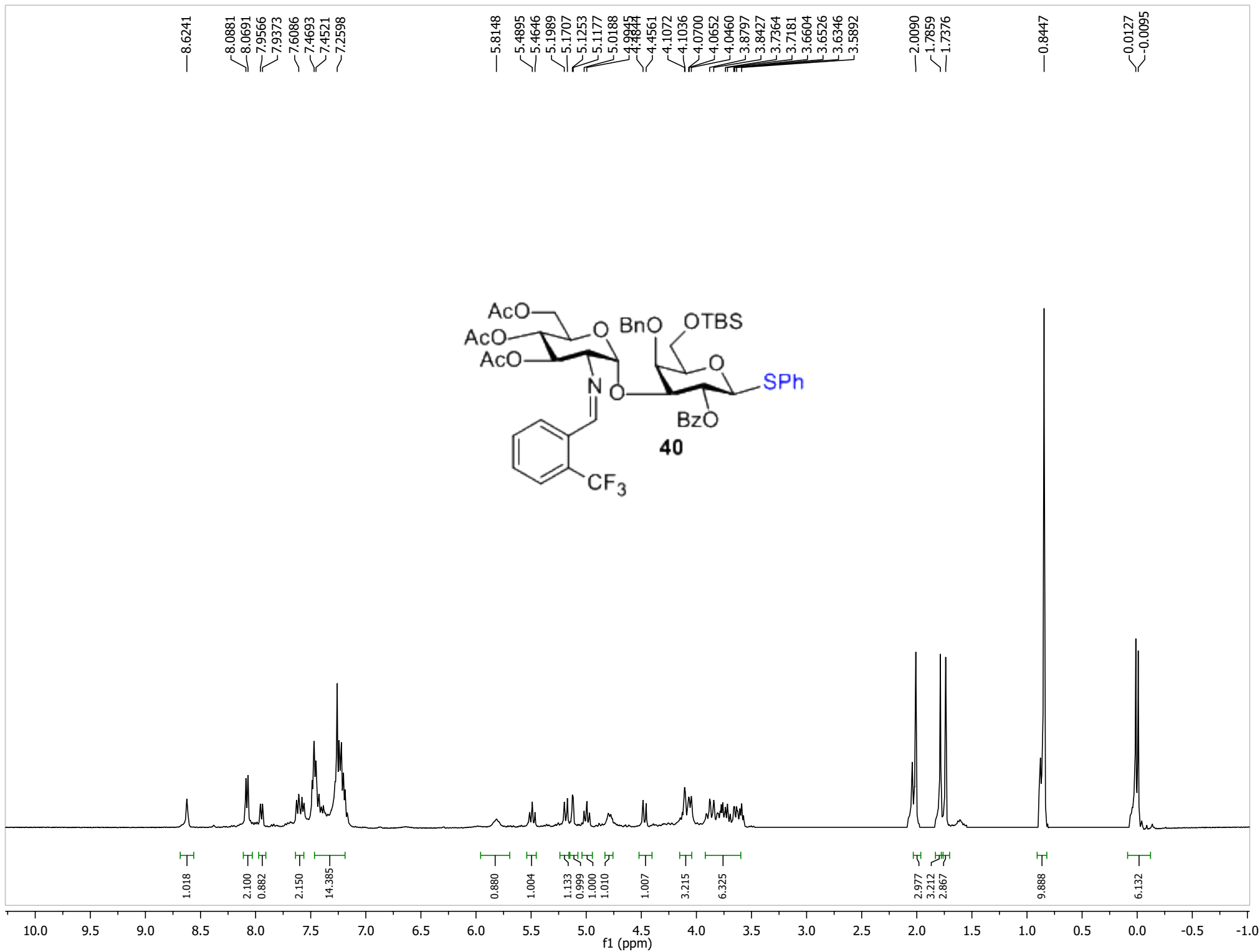


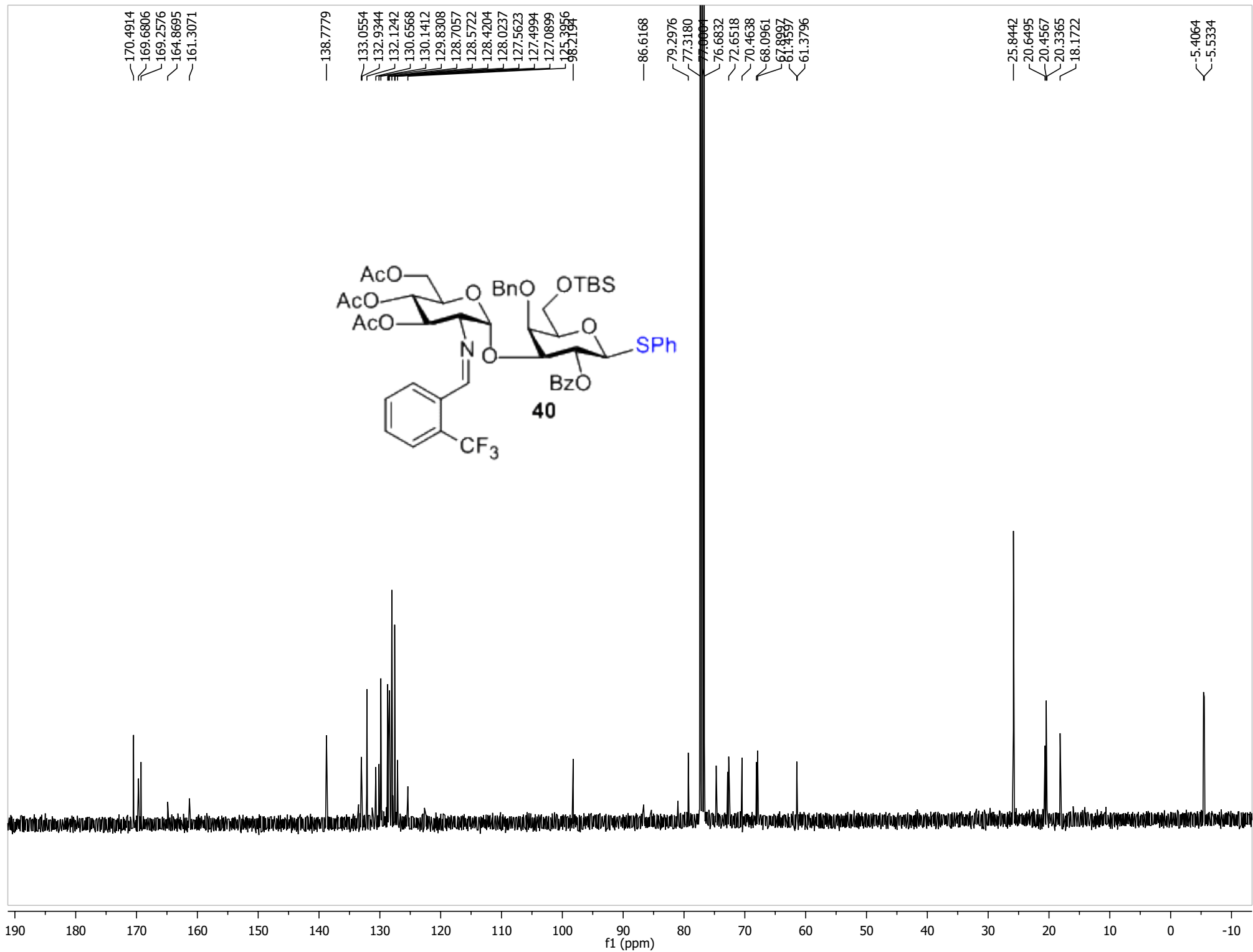


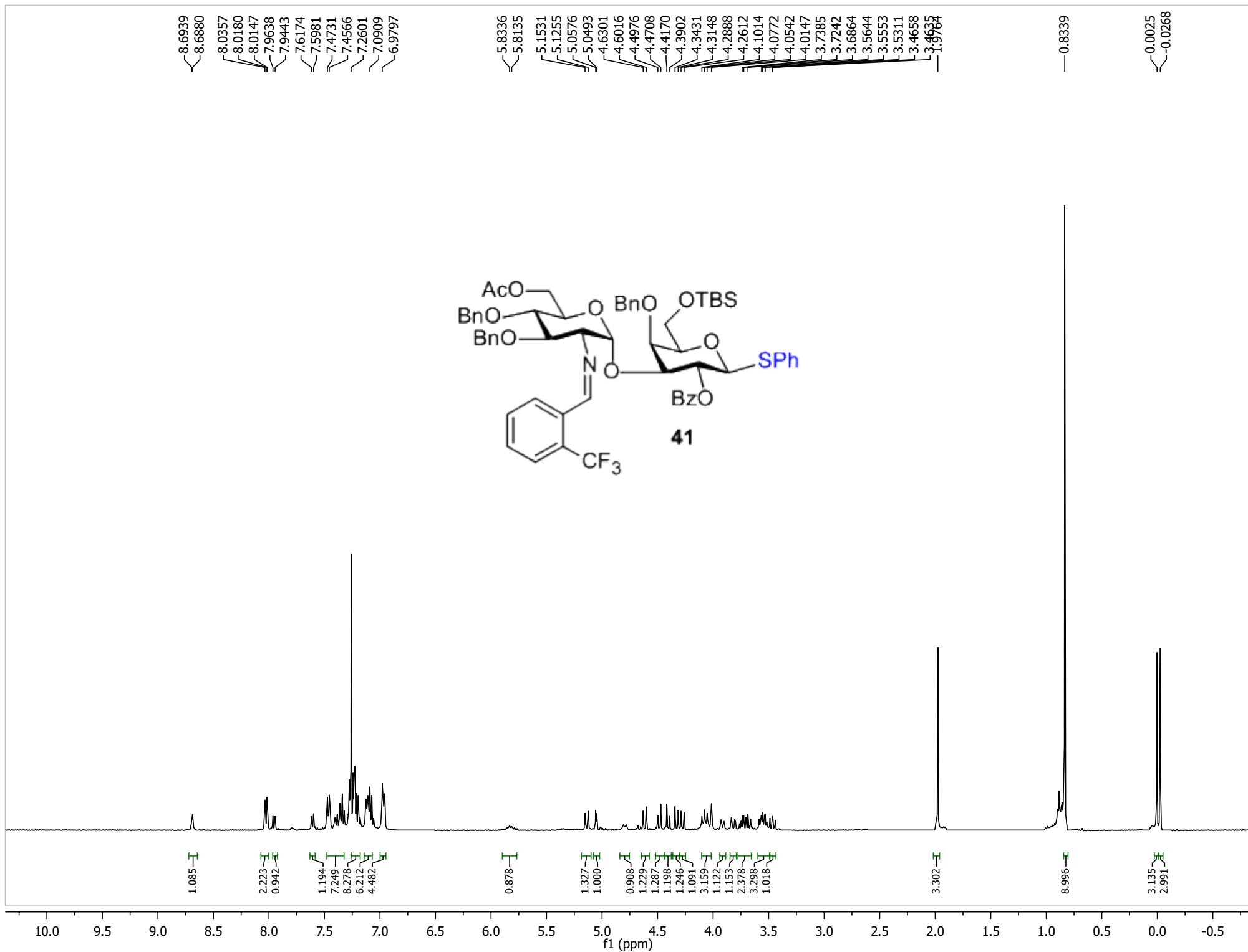


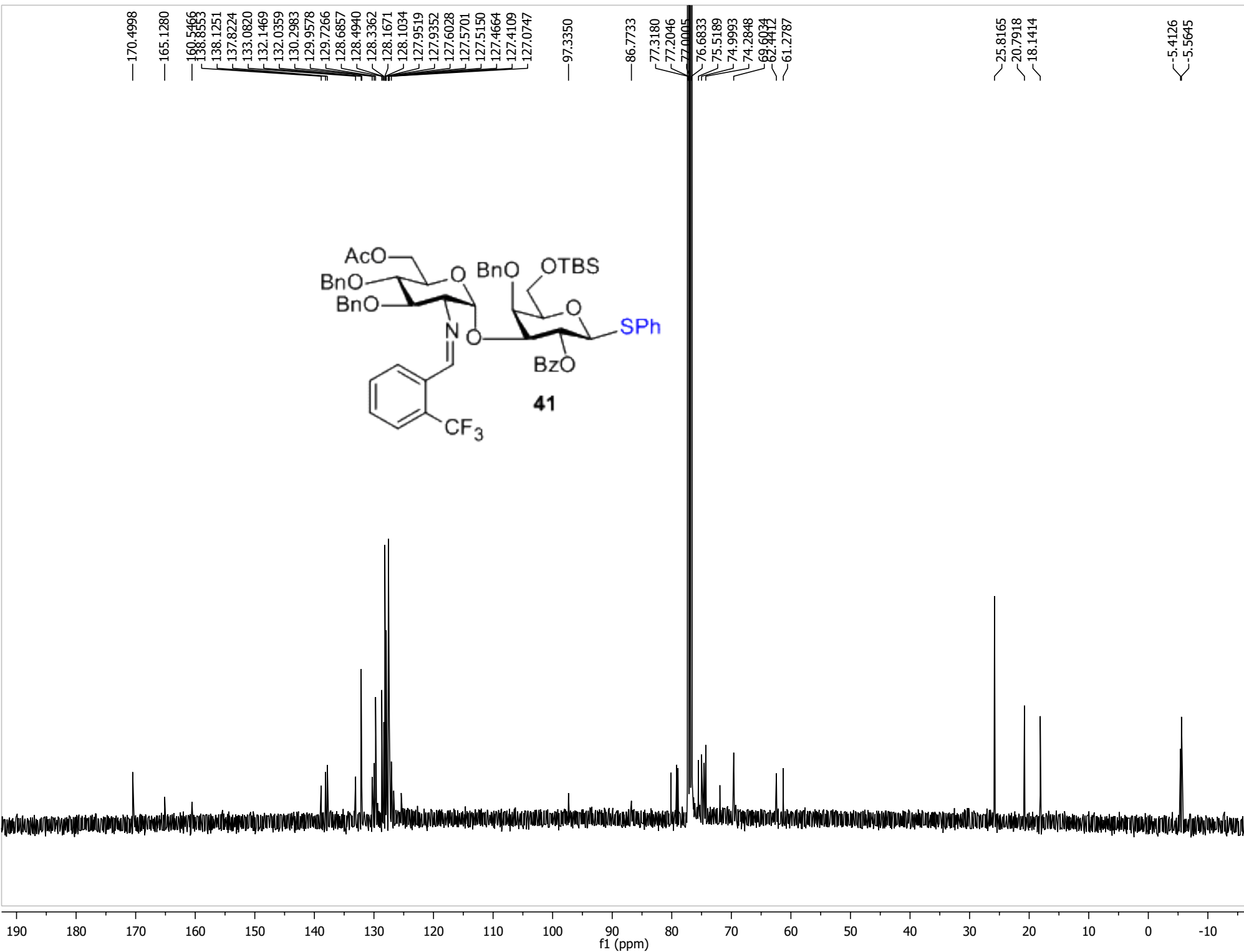


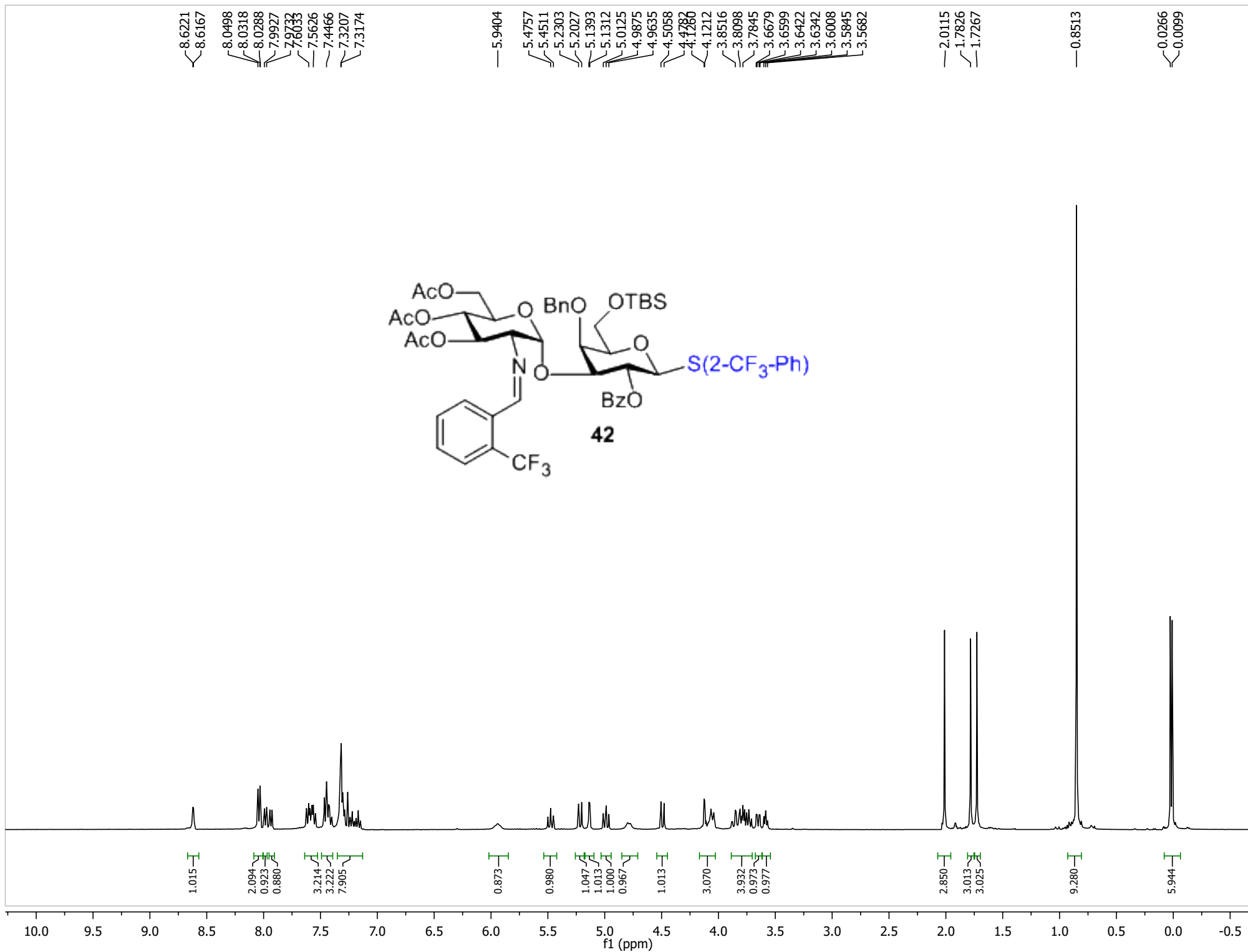












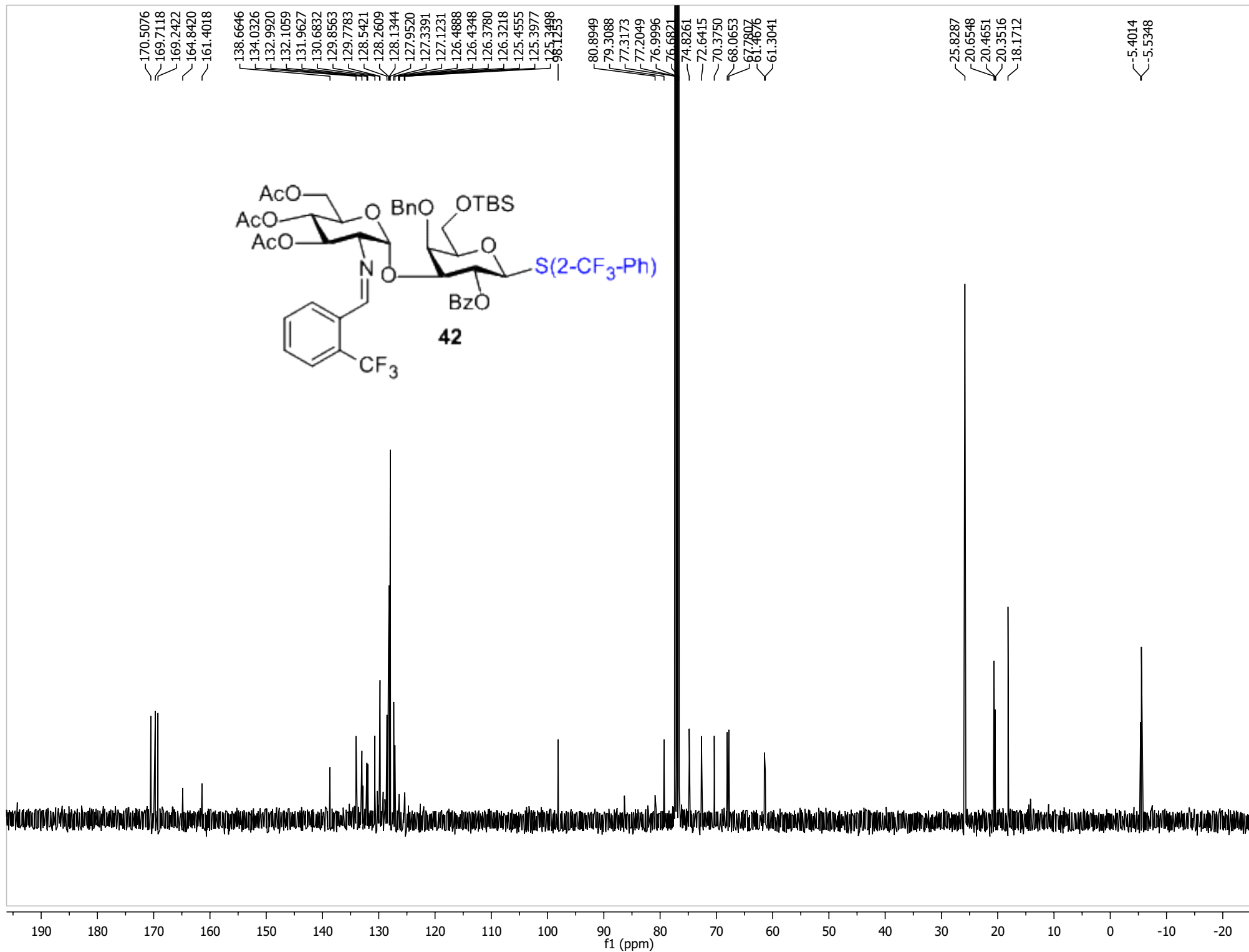
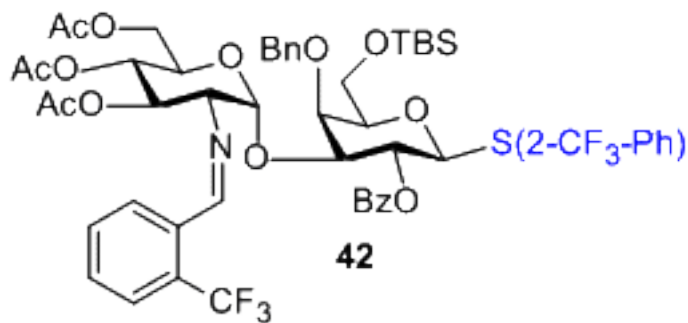
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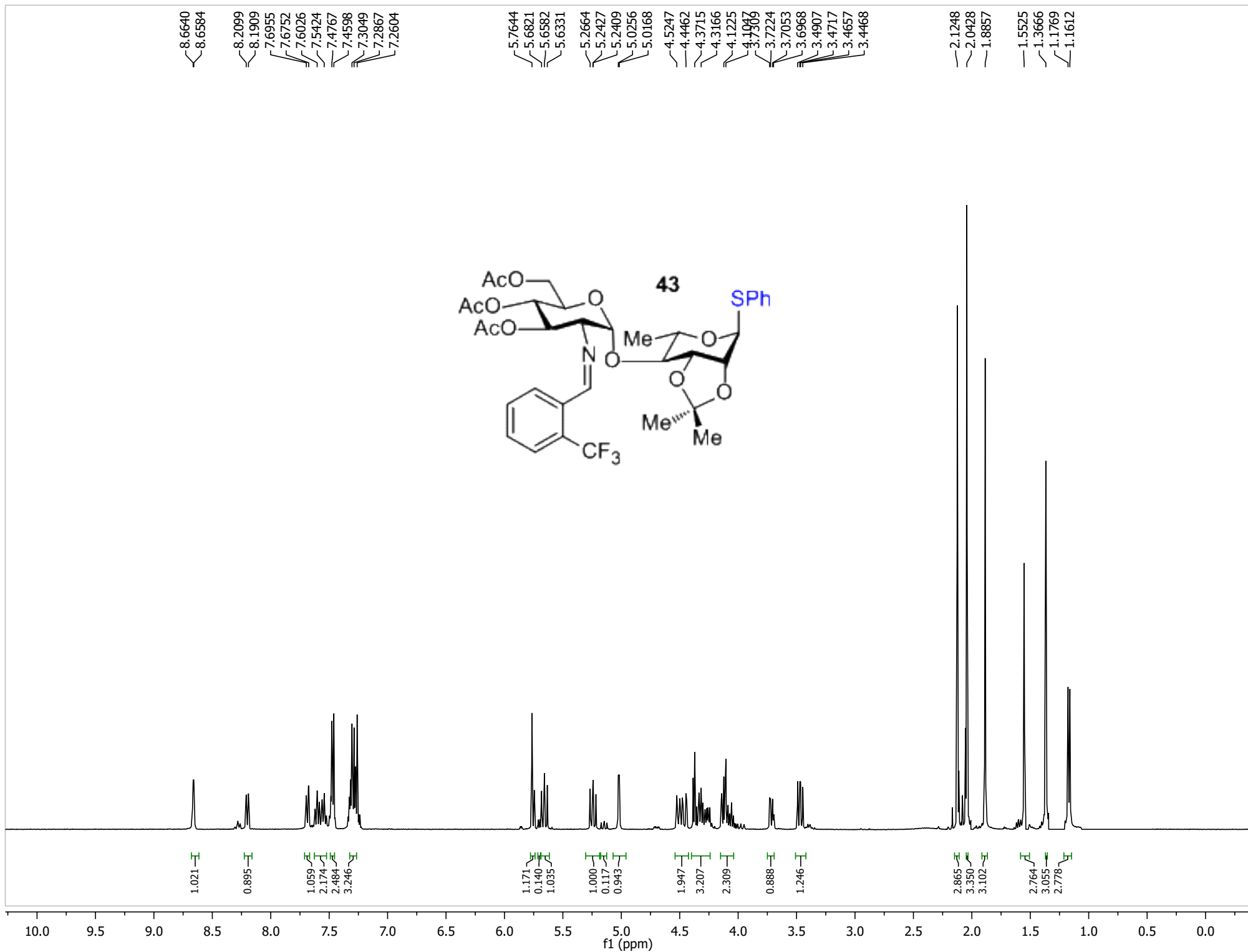
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132.9920
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128.5421
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128.1344
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125.3498
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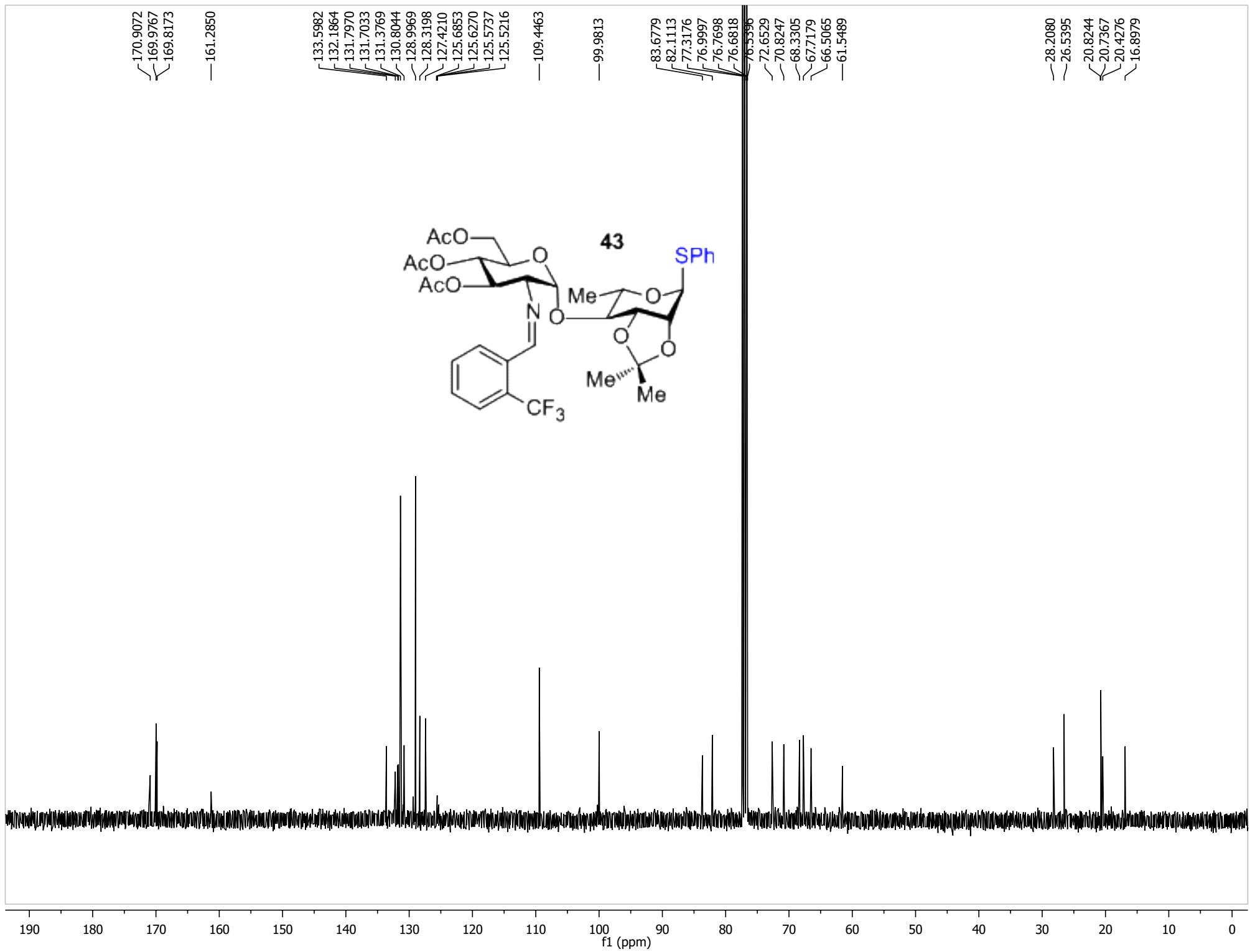
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67.467
61.3041

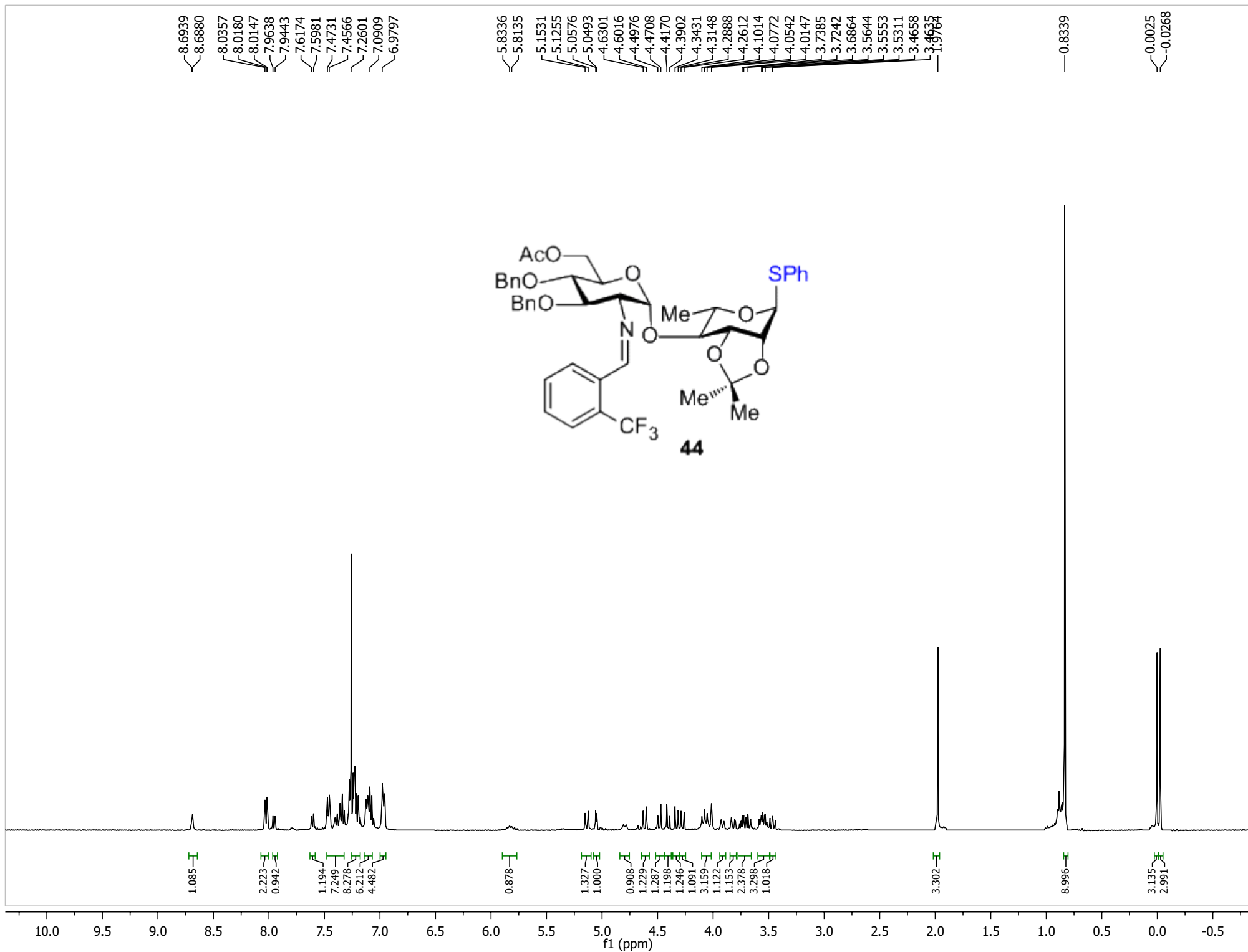
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20.3516
18.1712

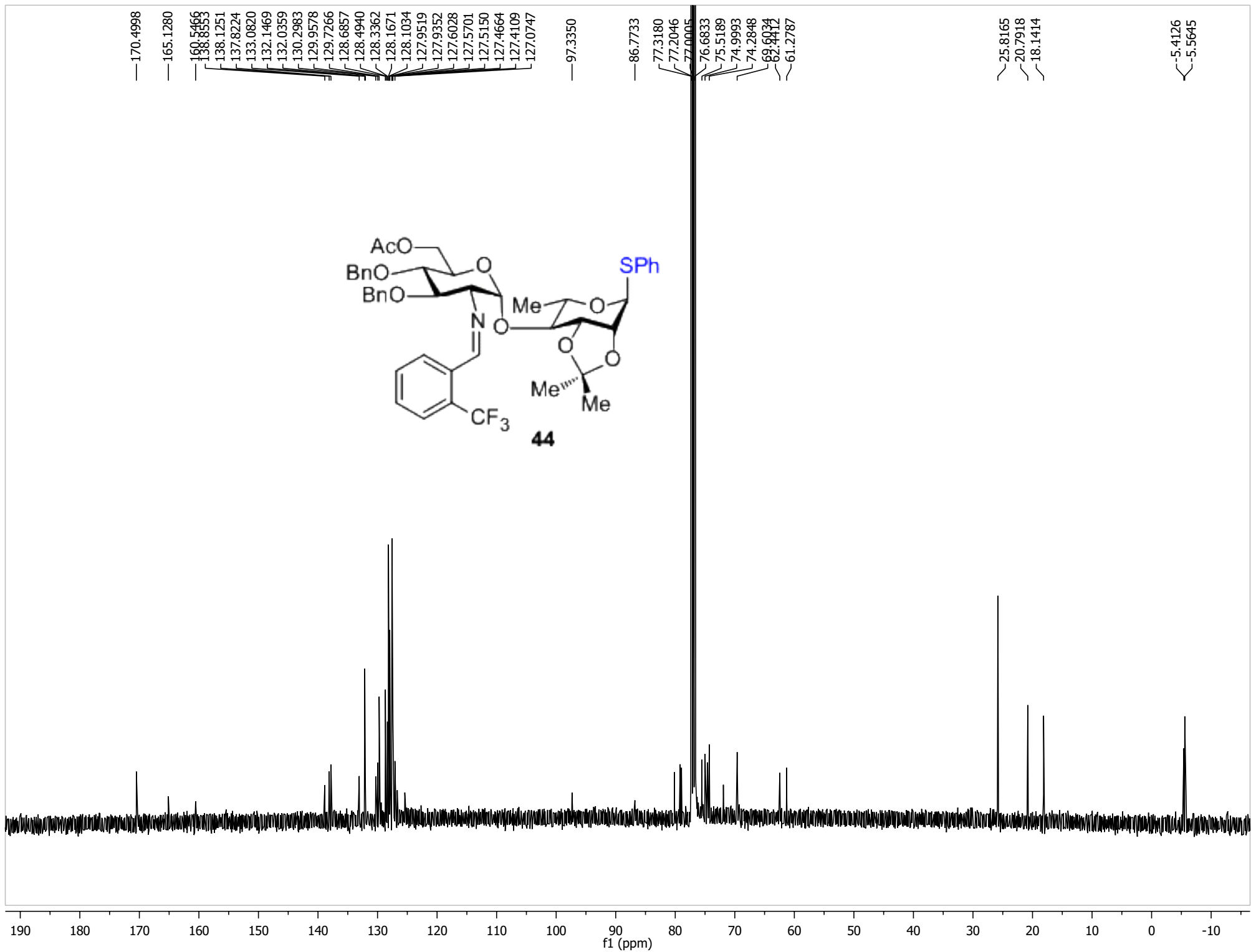
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-5.5348

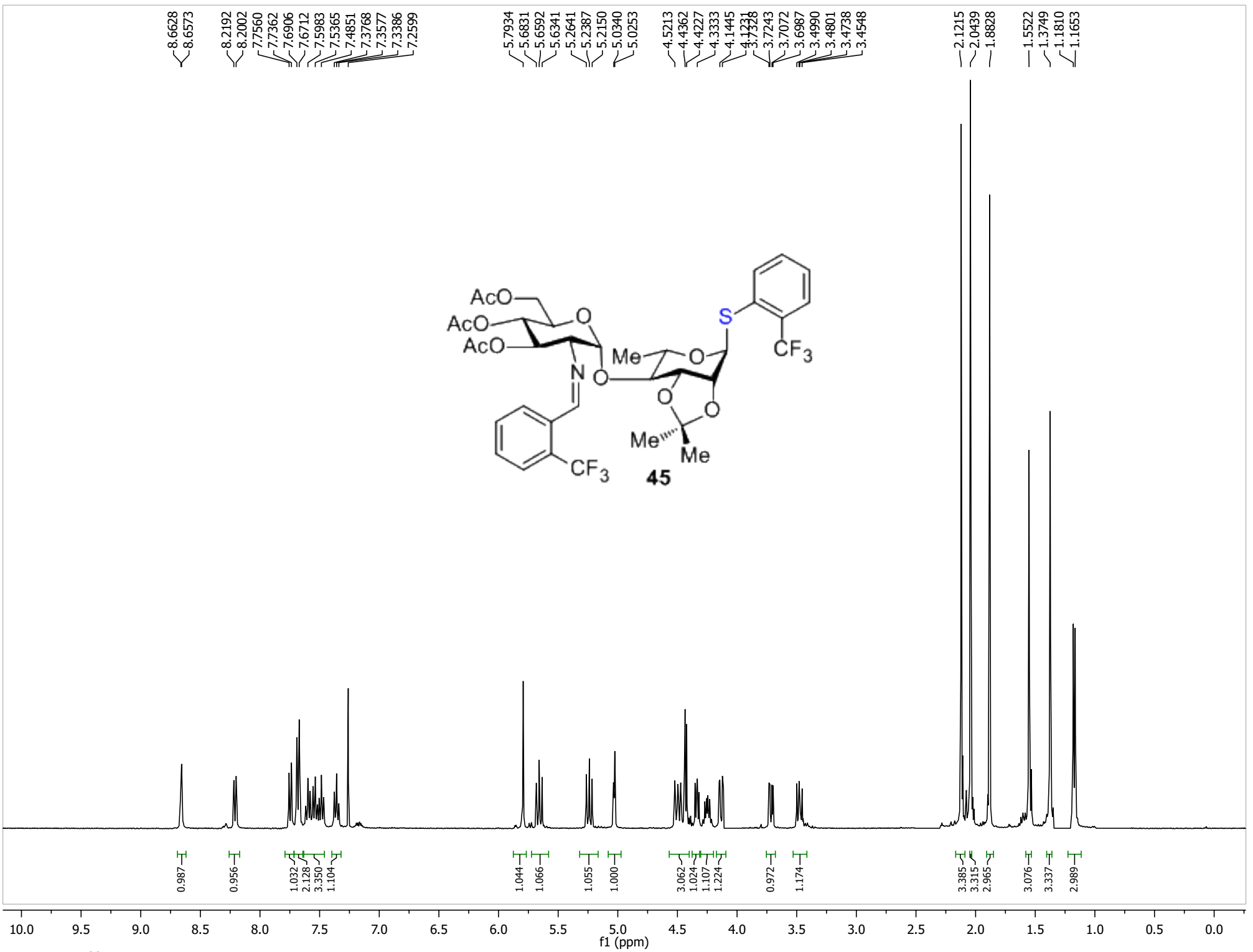


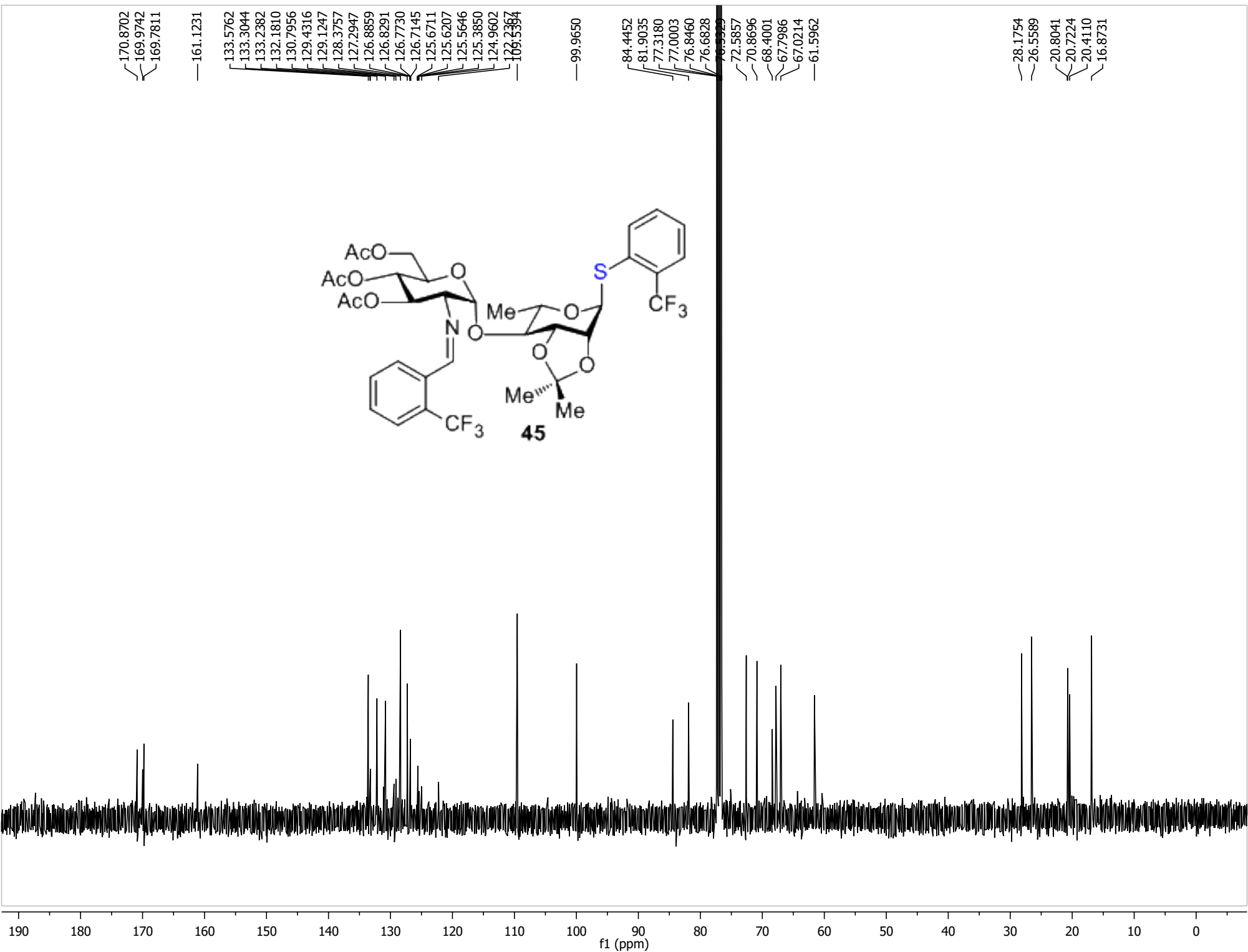


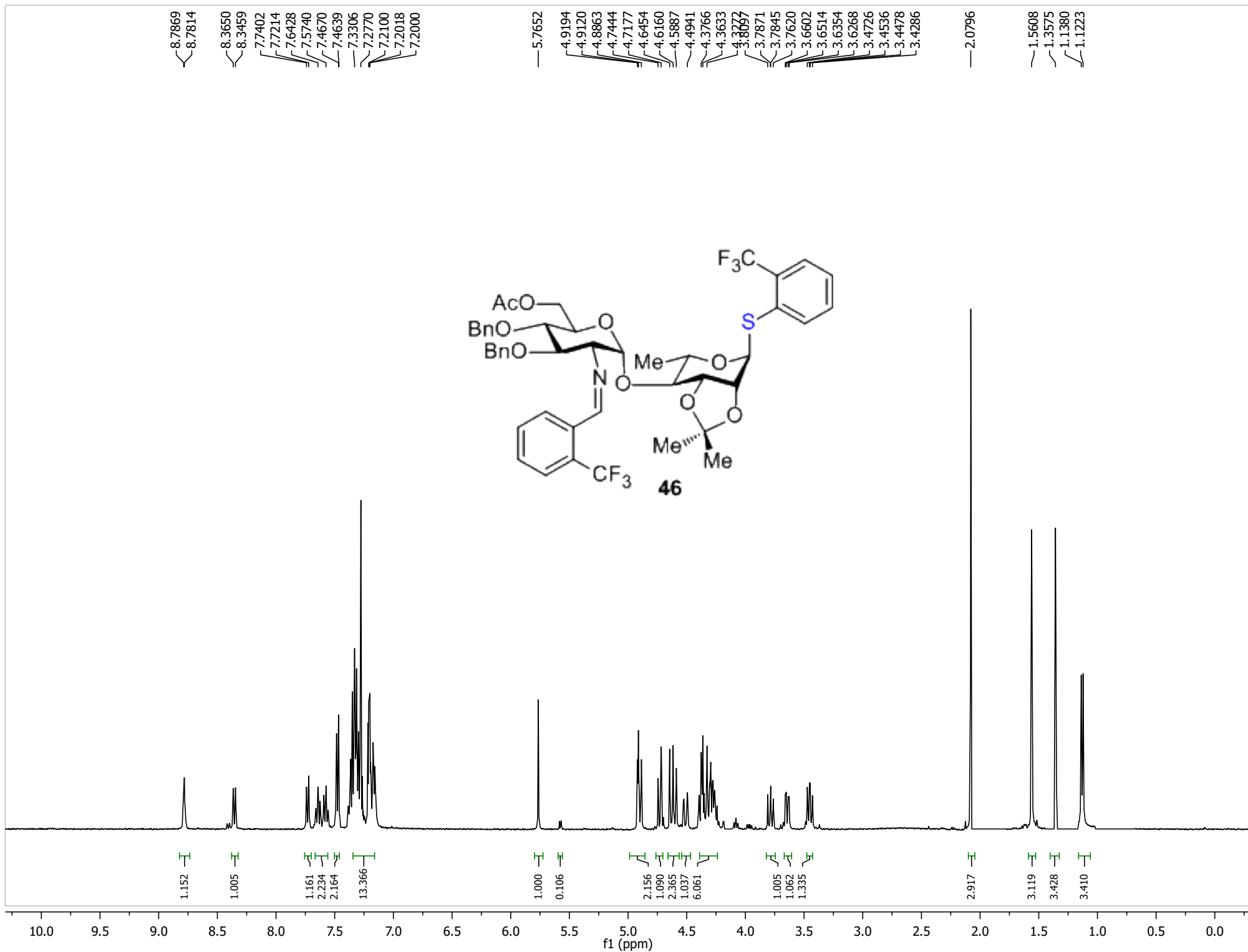


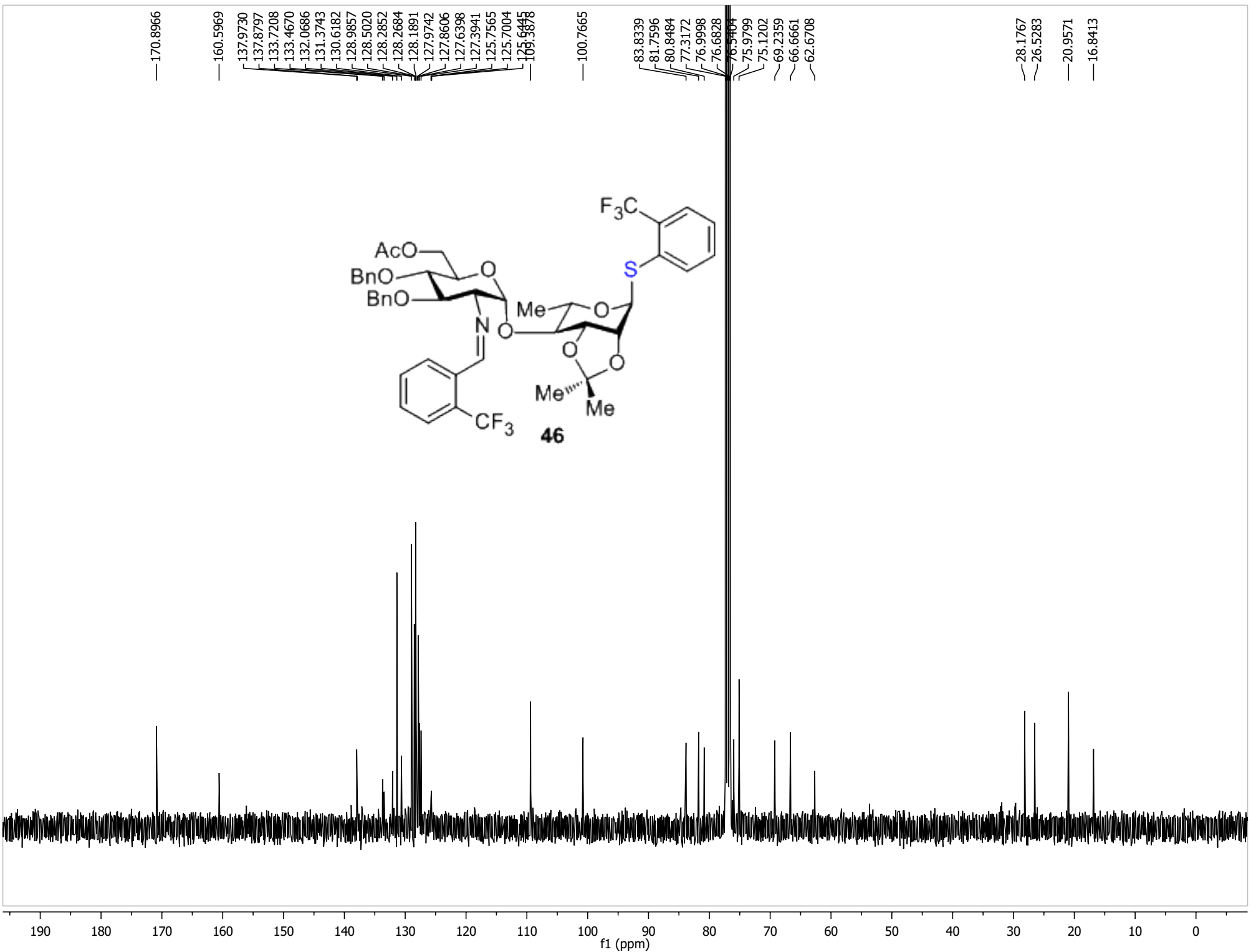
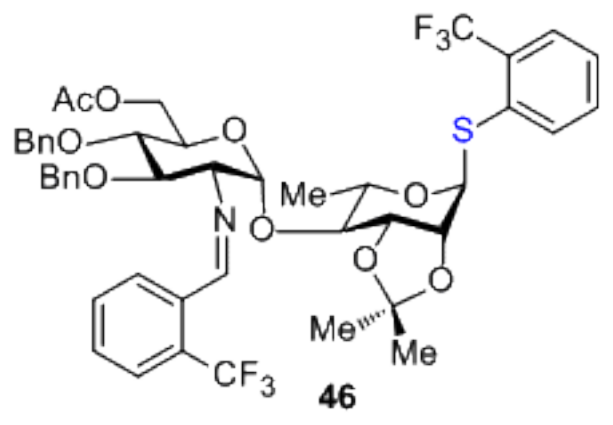


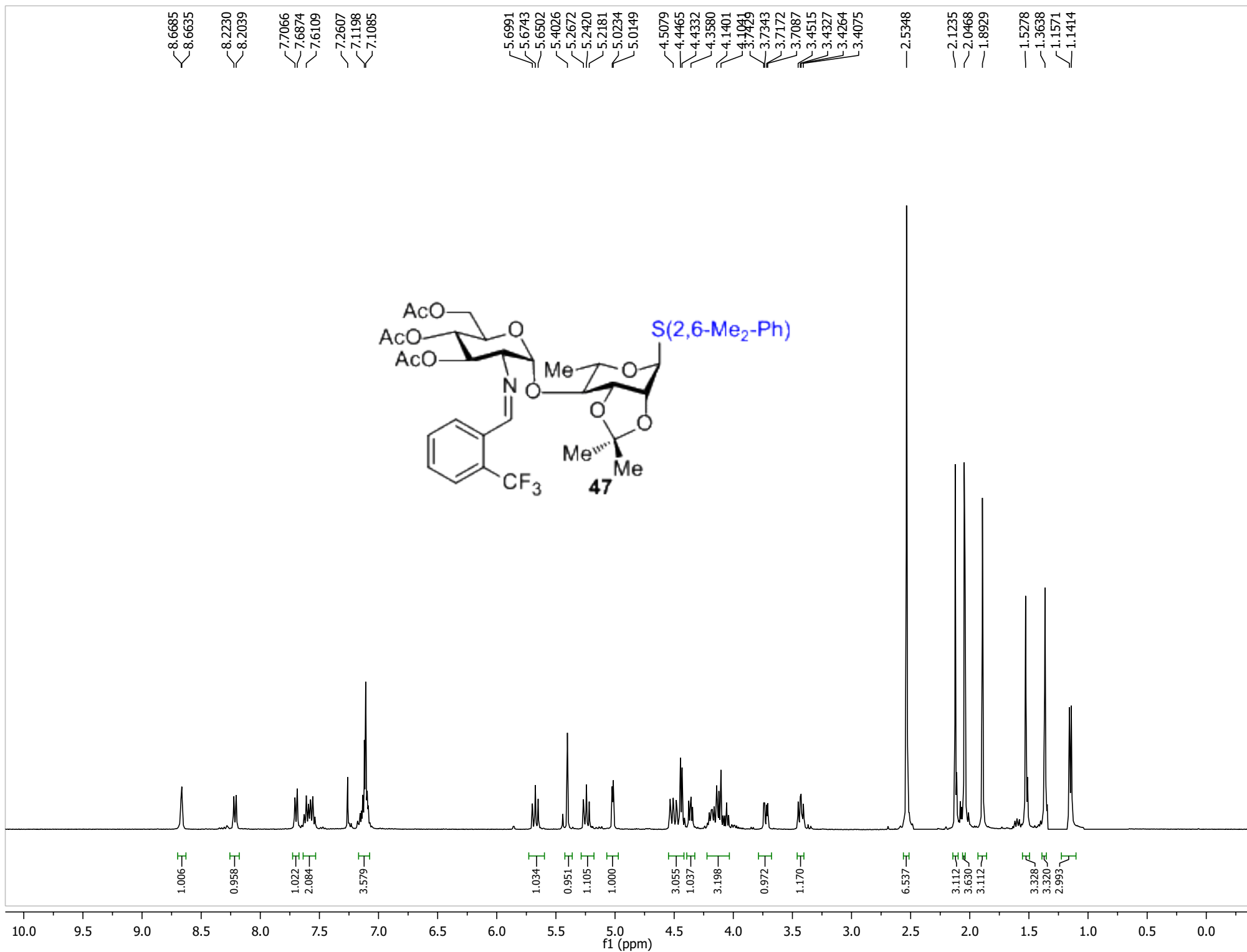


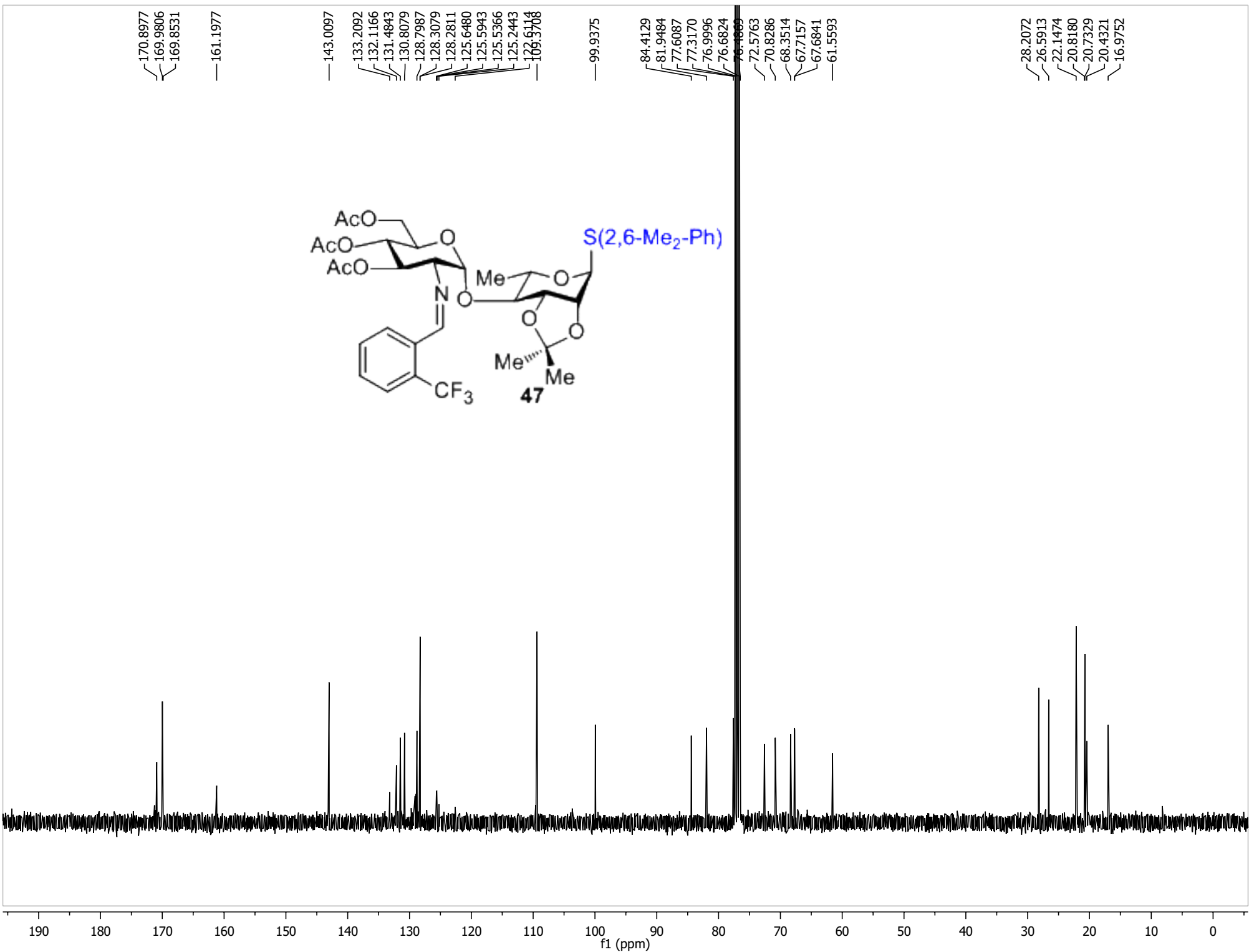


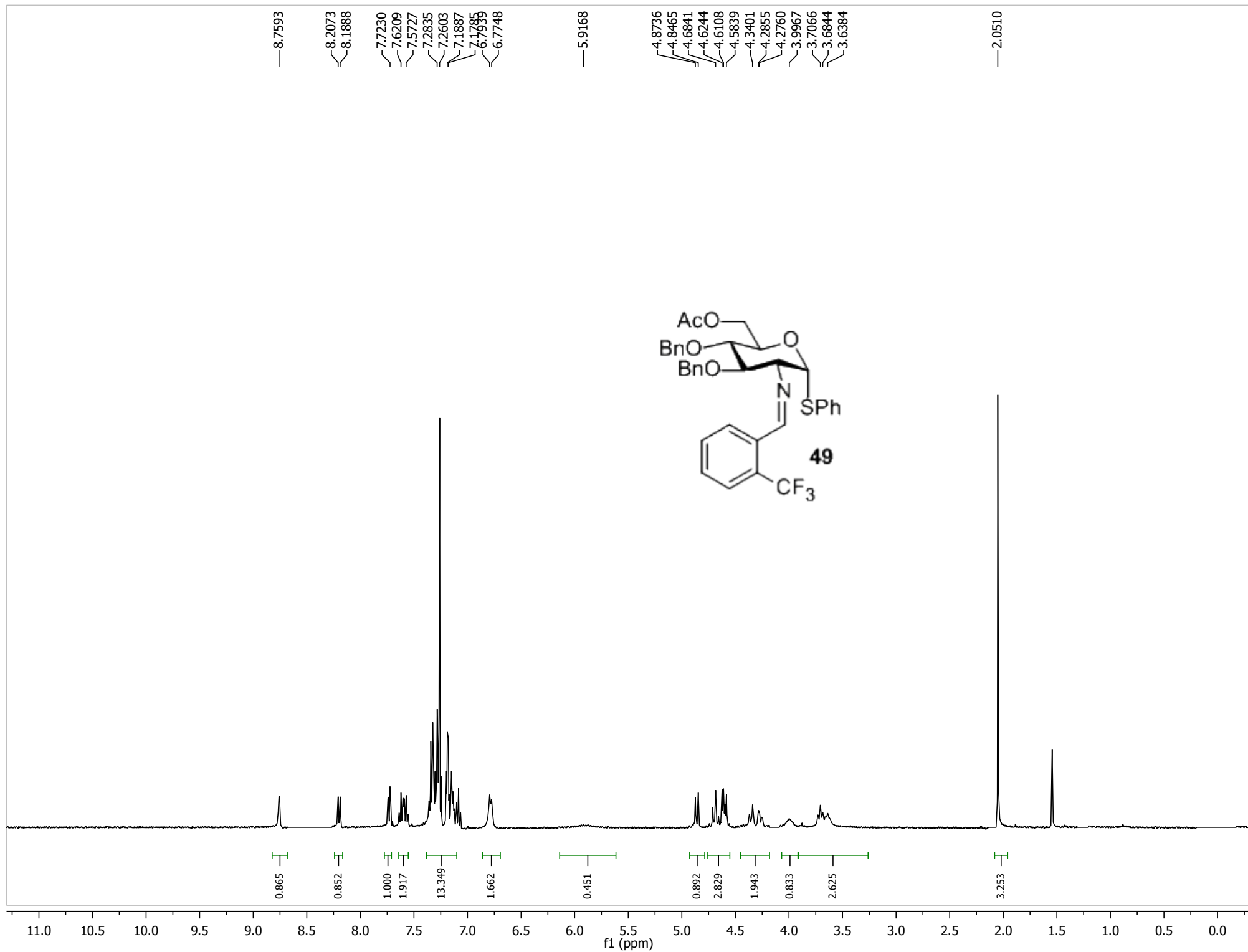


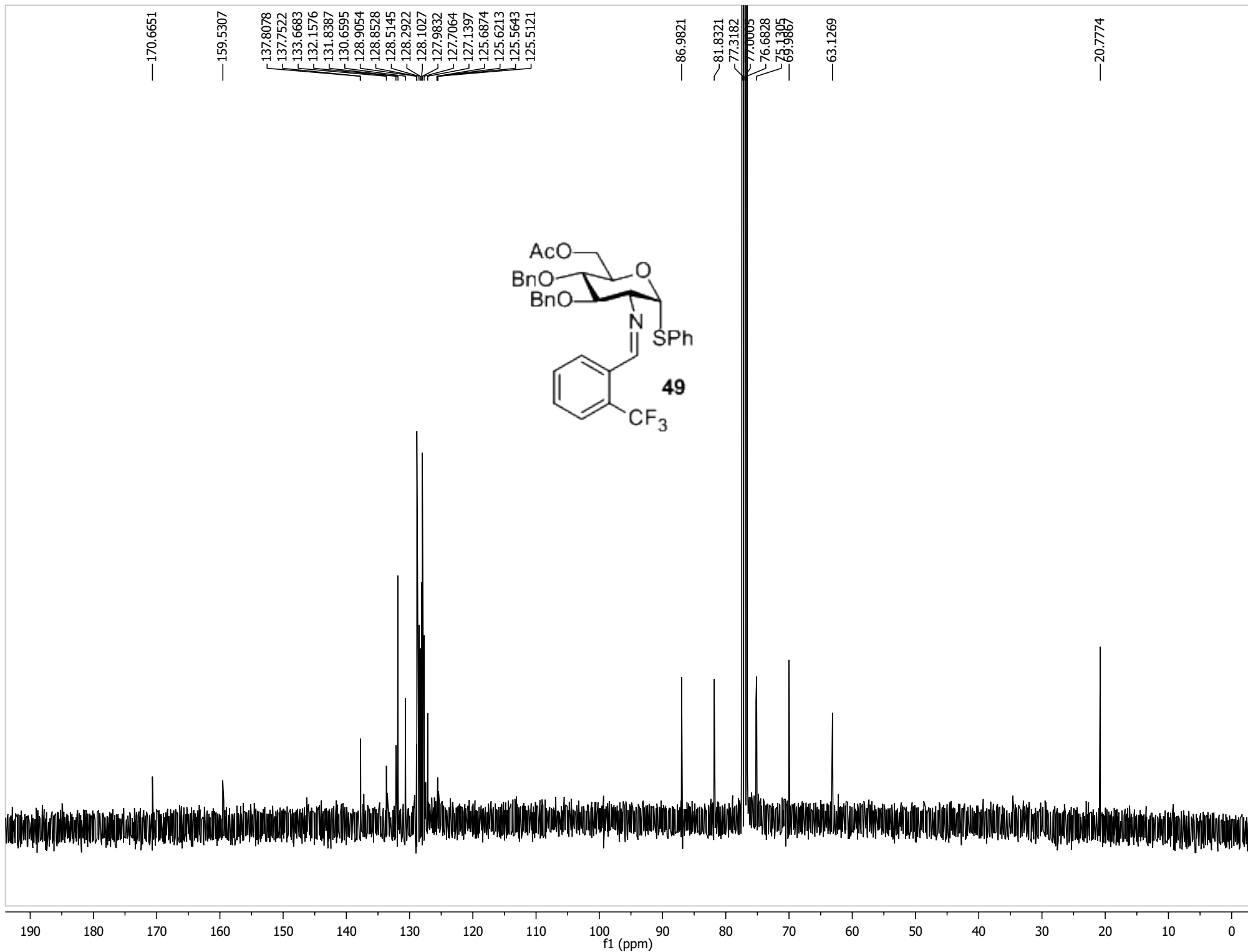


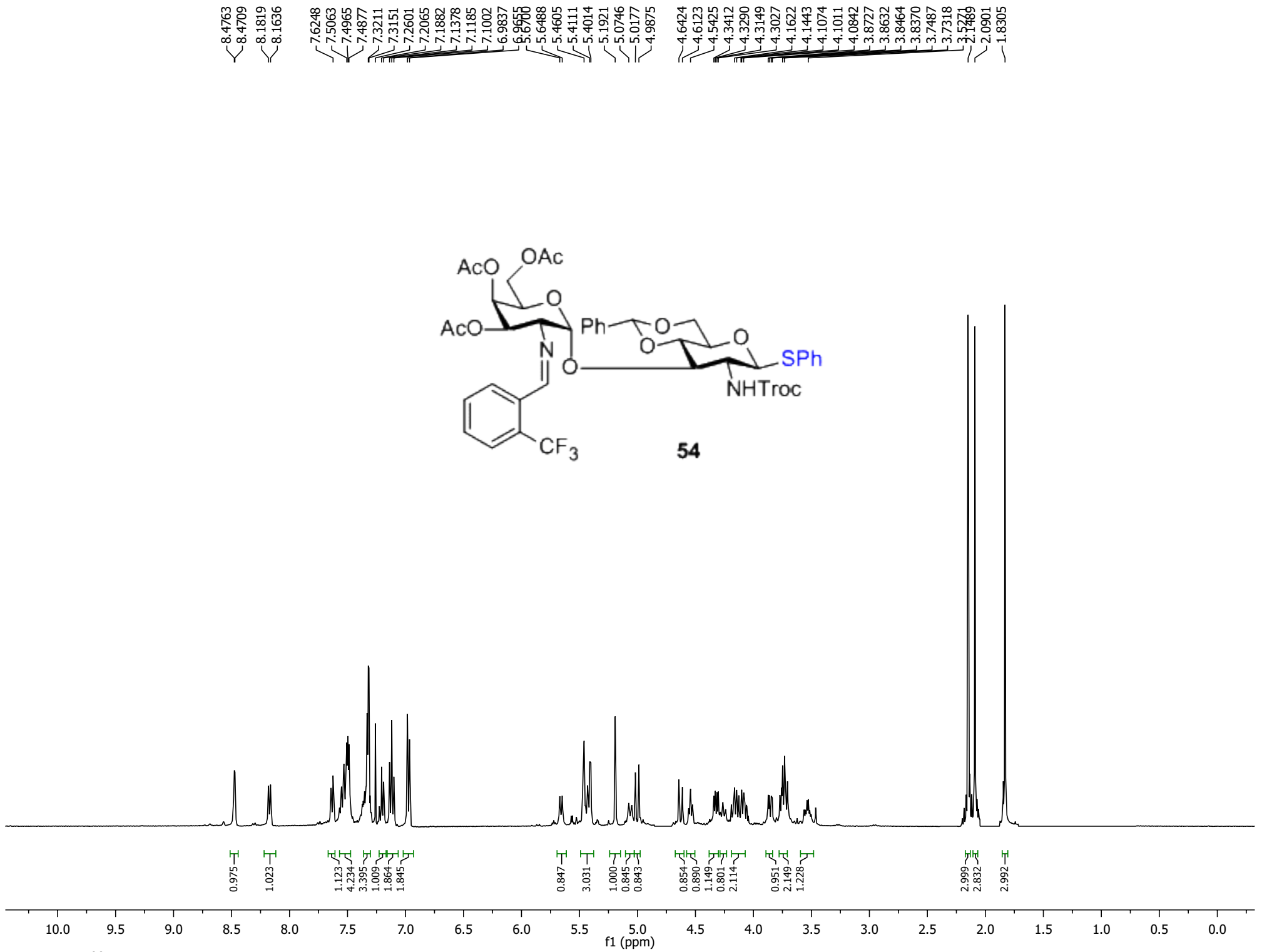


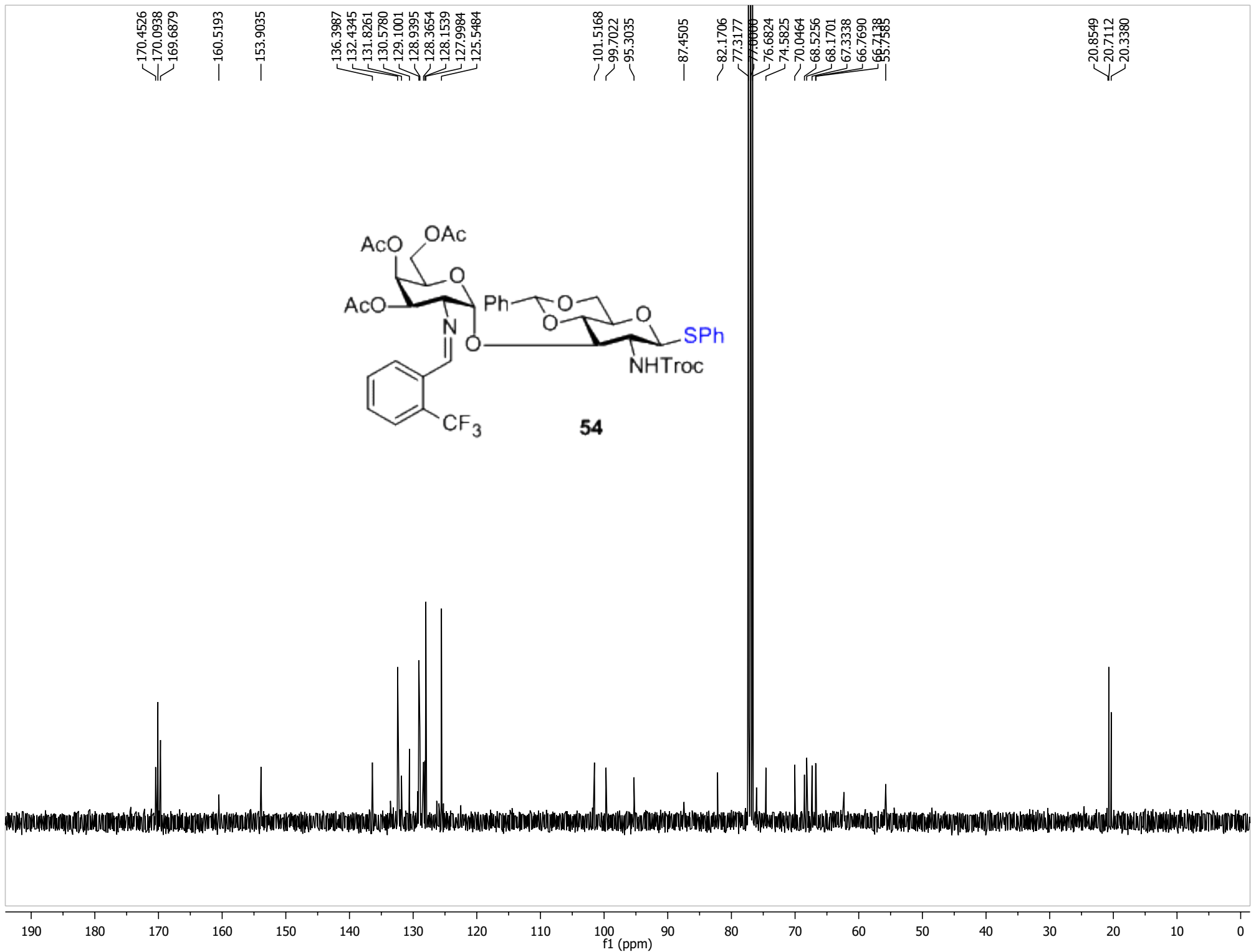
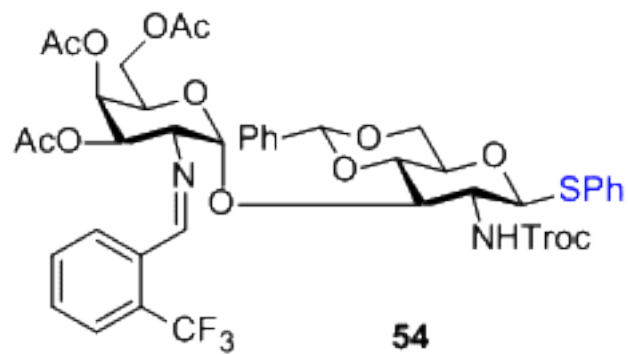












170.4526
170.0938
169.6879

160.5193

153.9035

136.3987
132.4345
131.8261
130.5780
129.1001
128.9395
128.3654
128.1539
127.9984
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77.0090

76.6824
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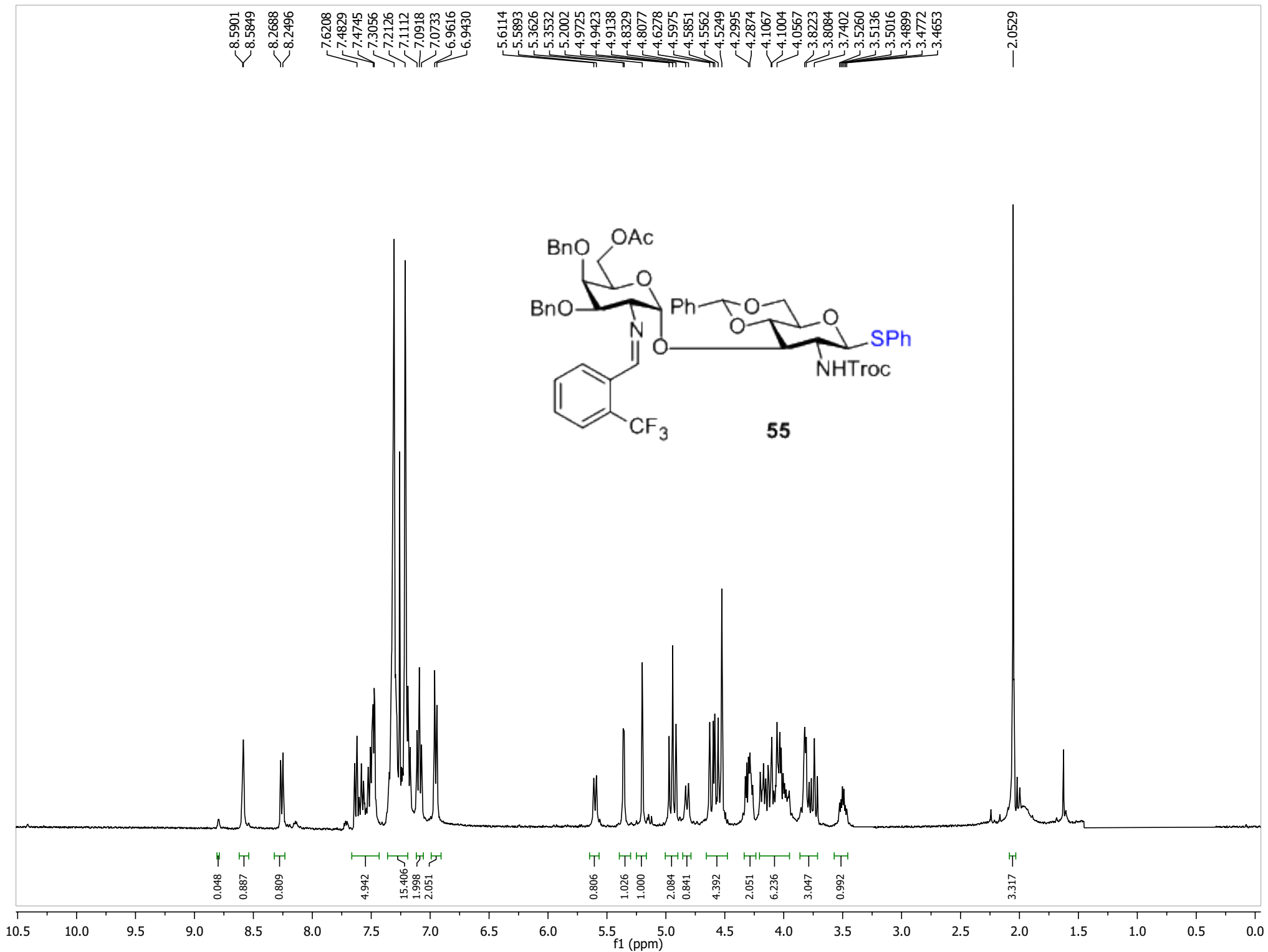
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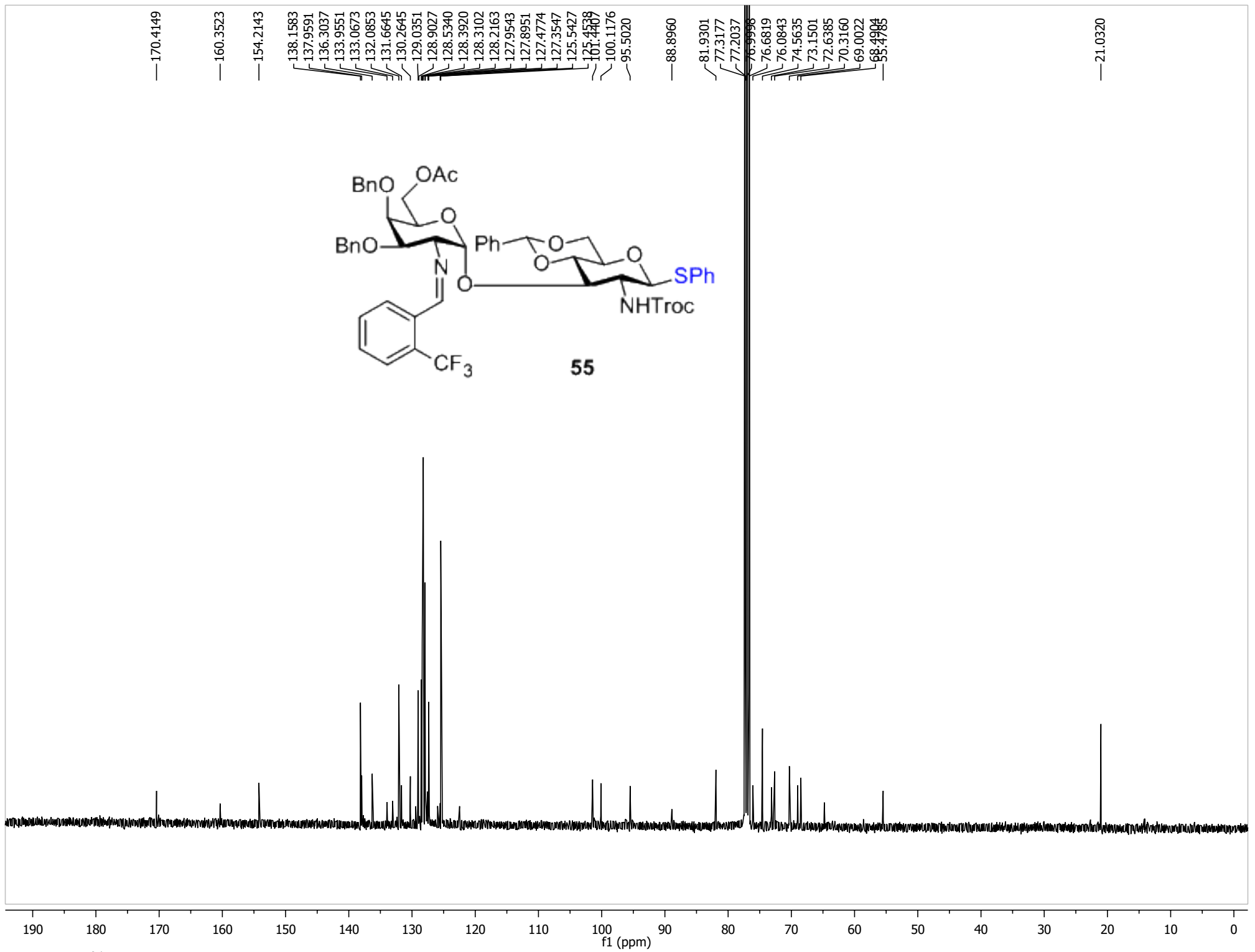
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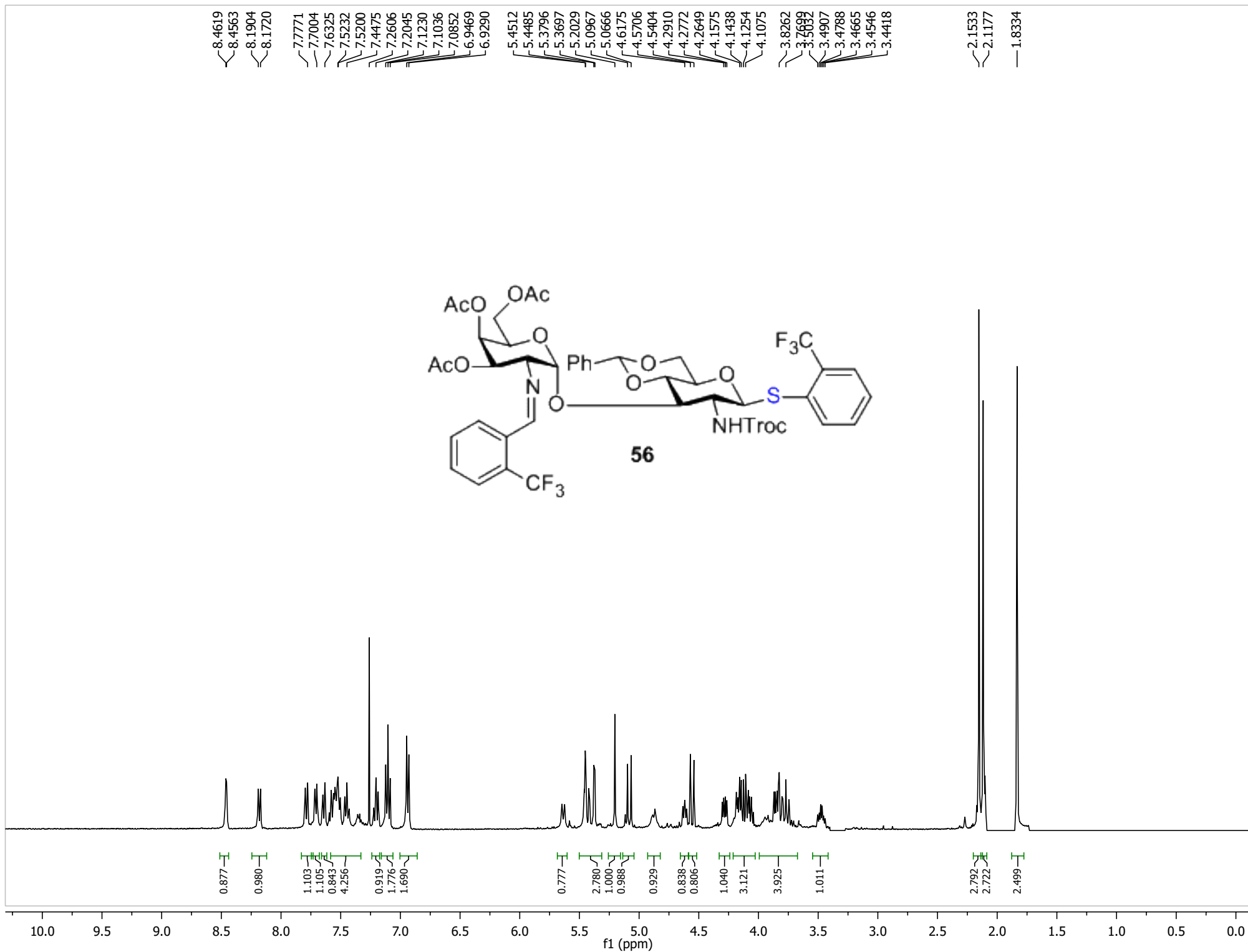
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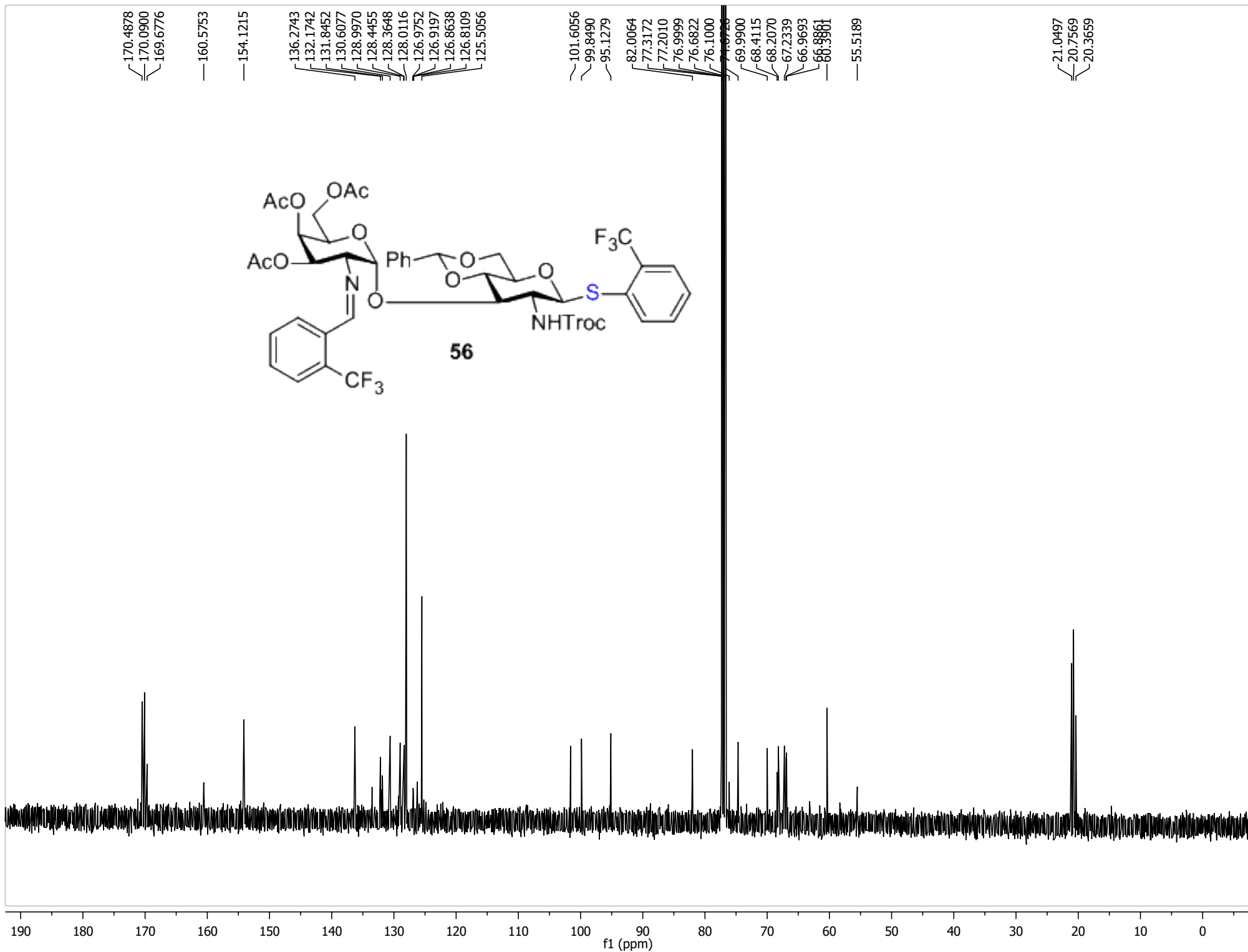
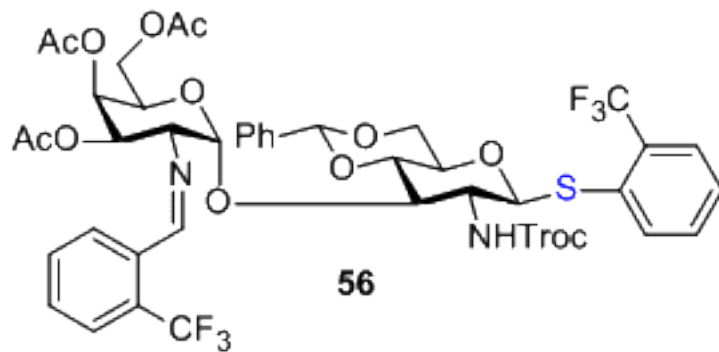
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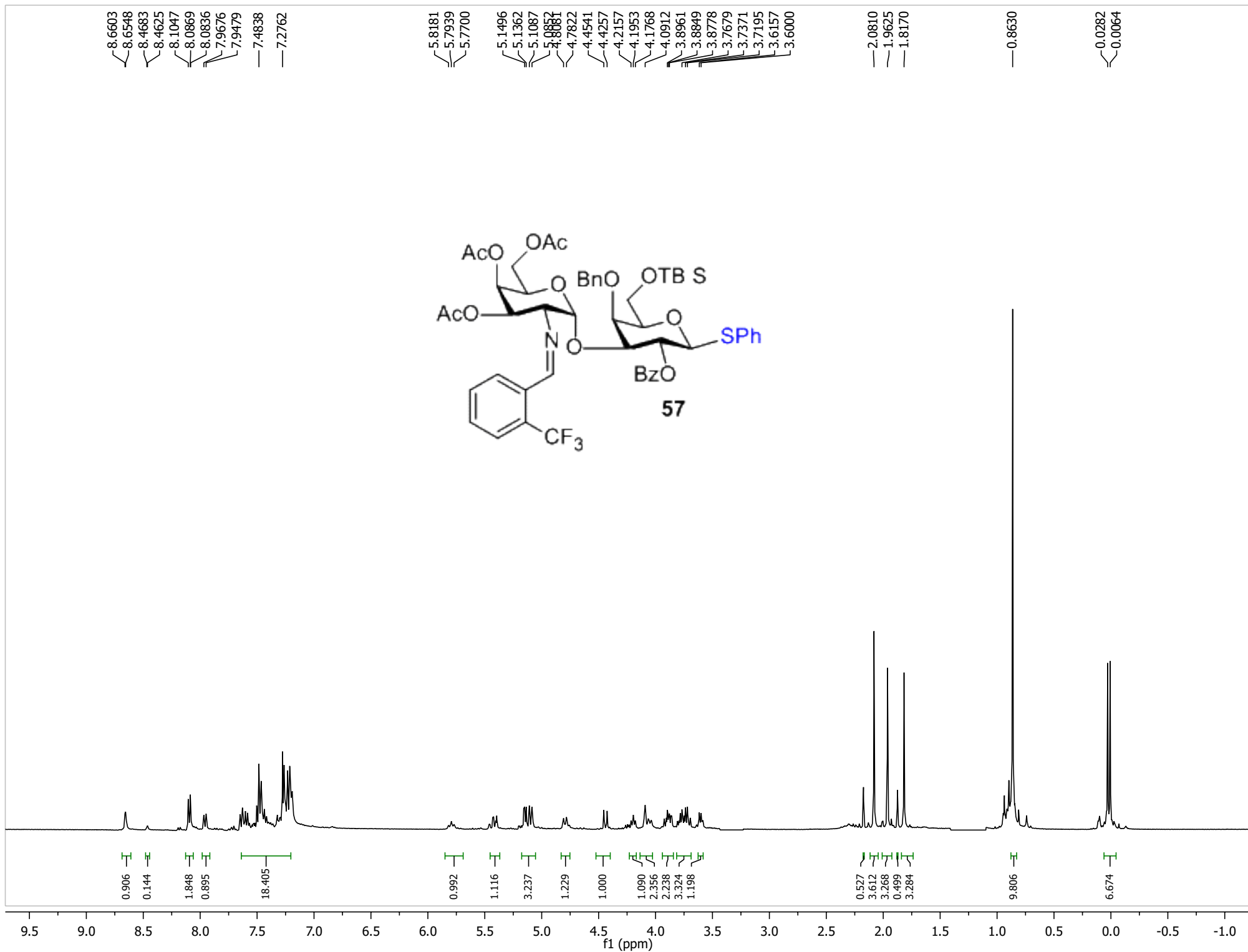
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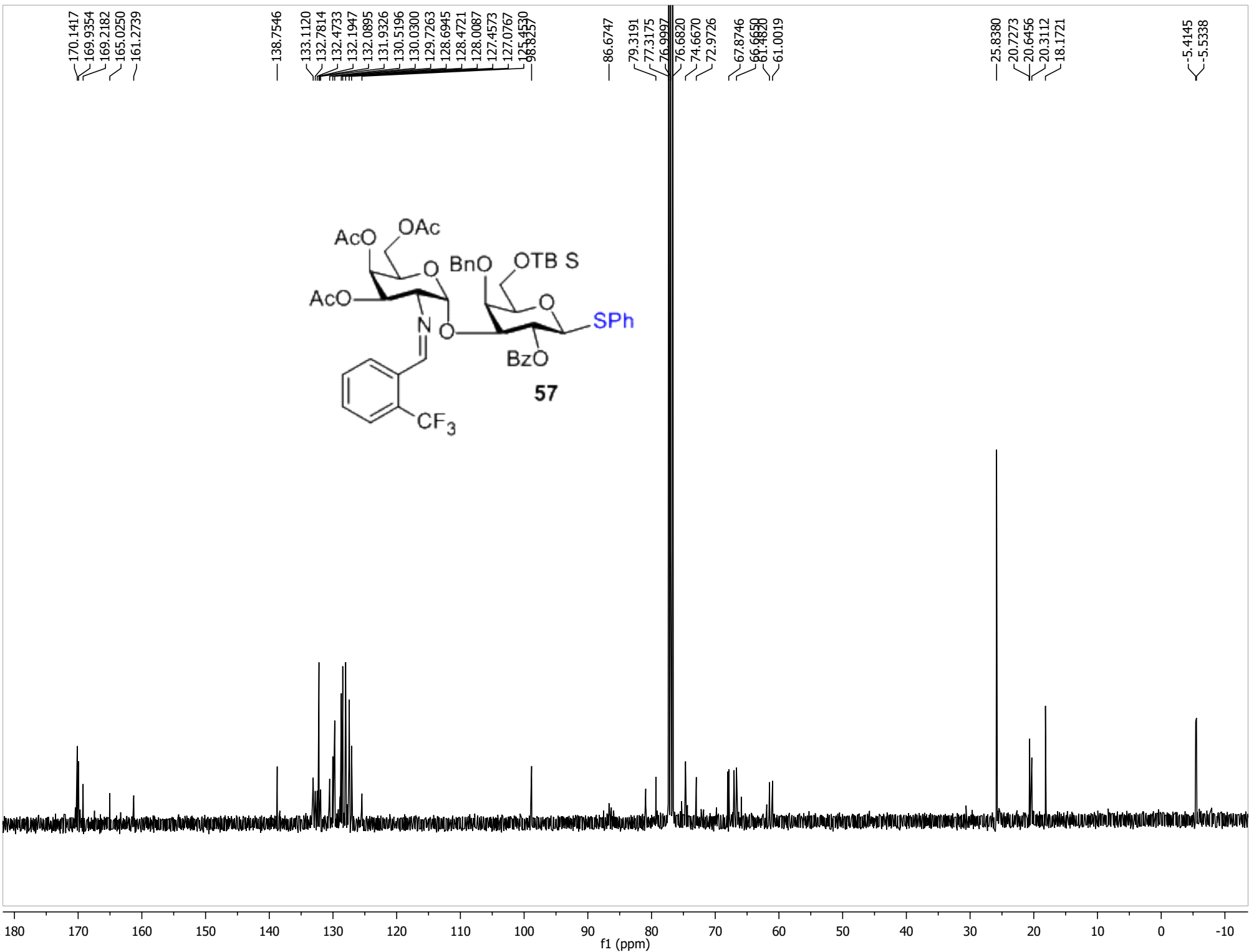


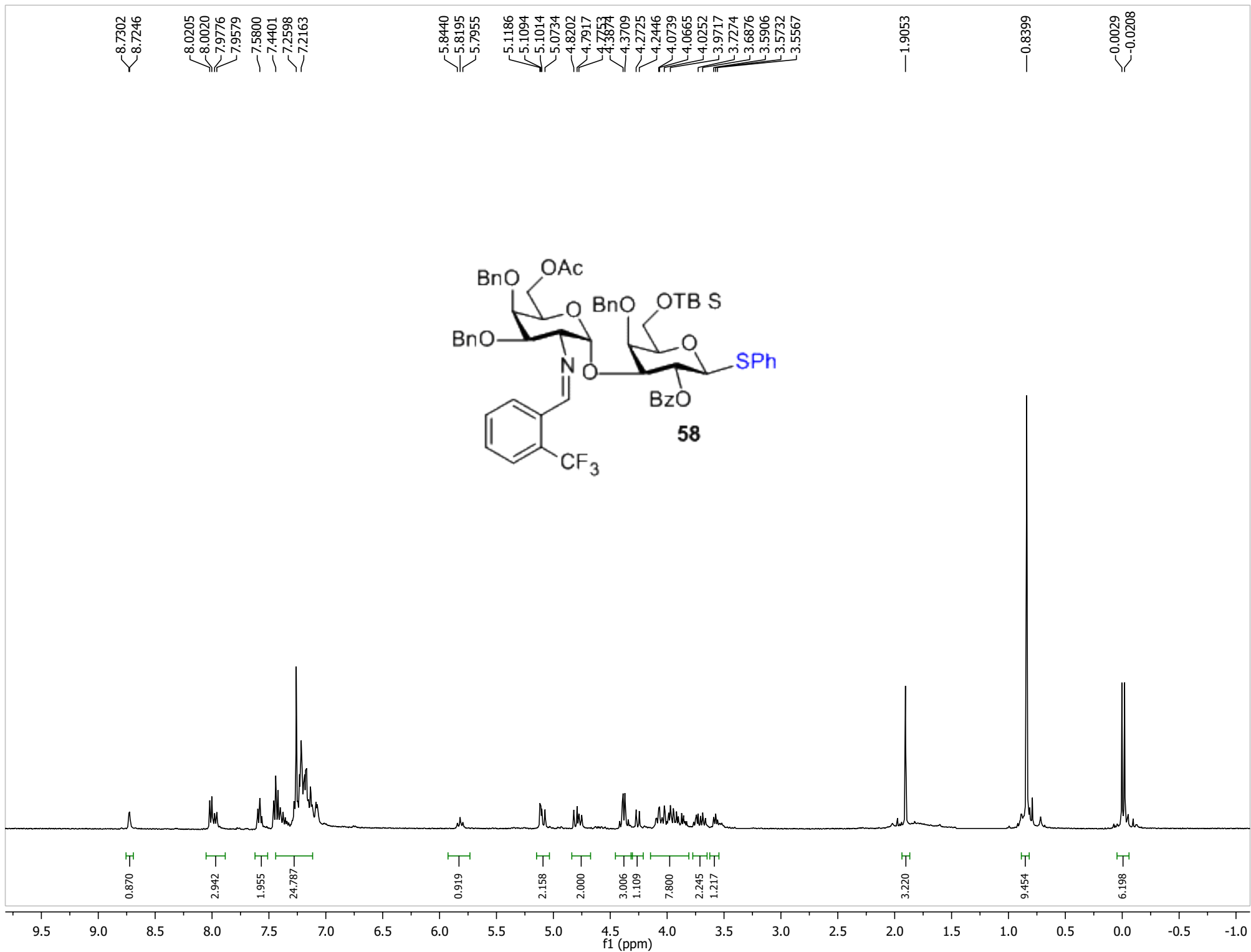


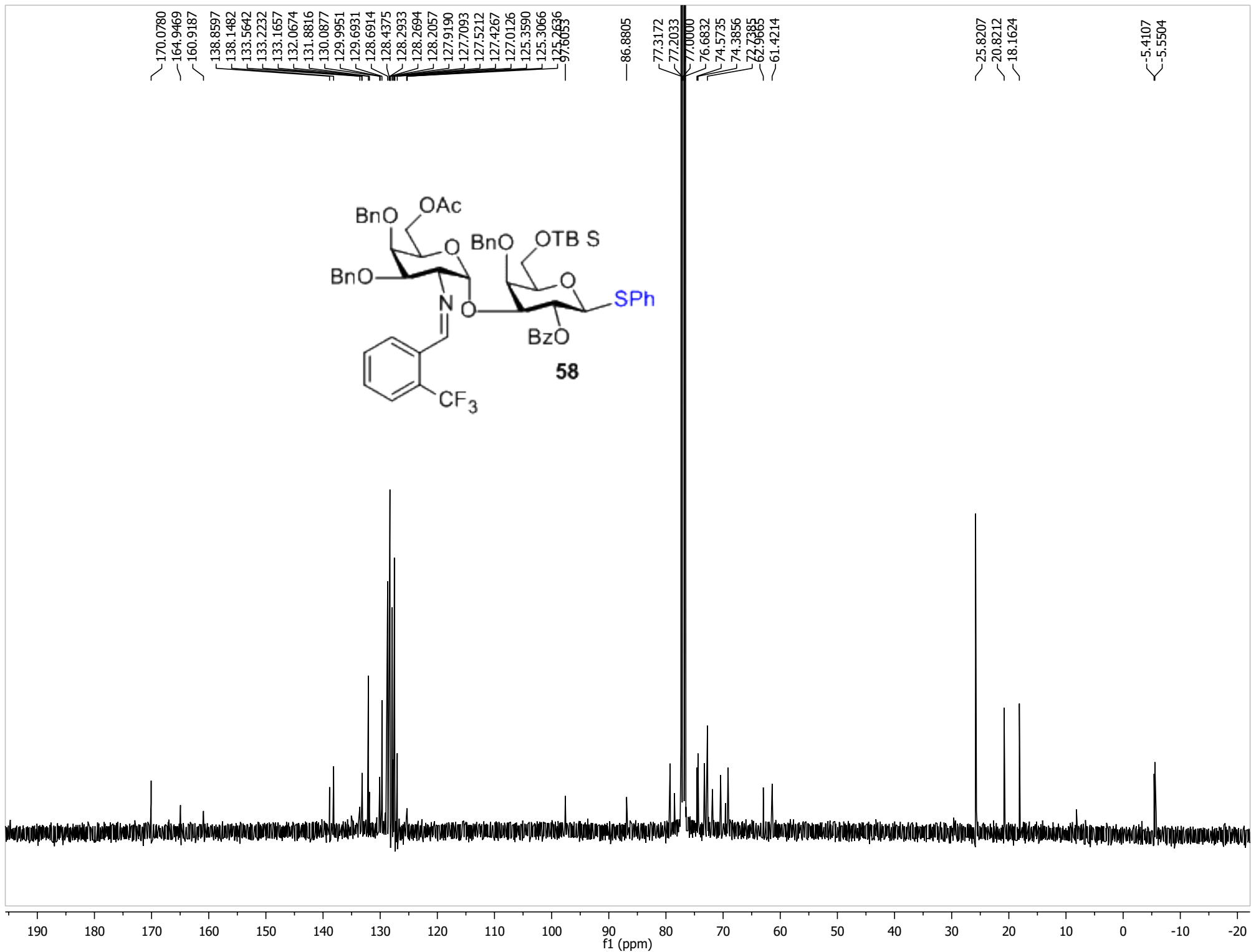
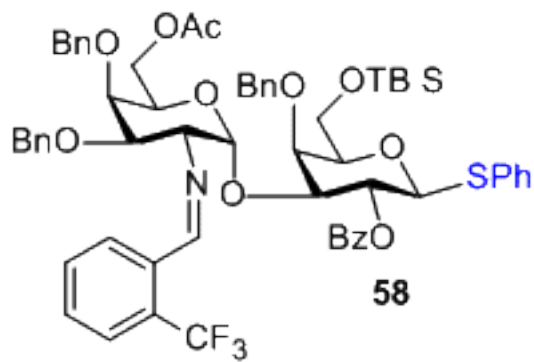


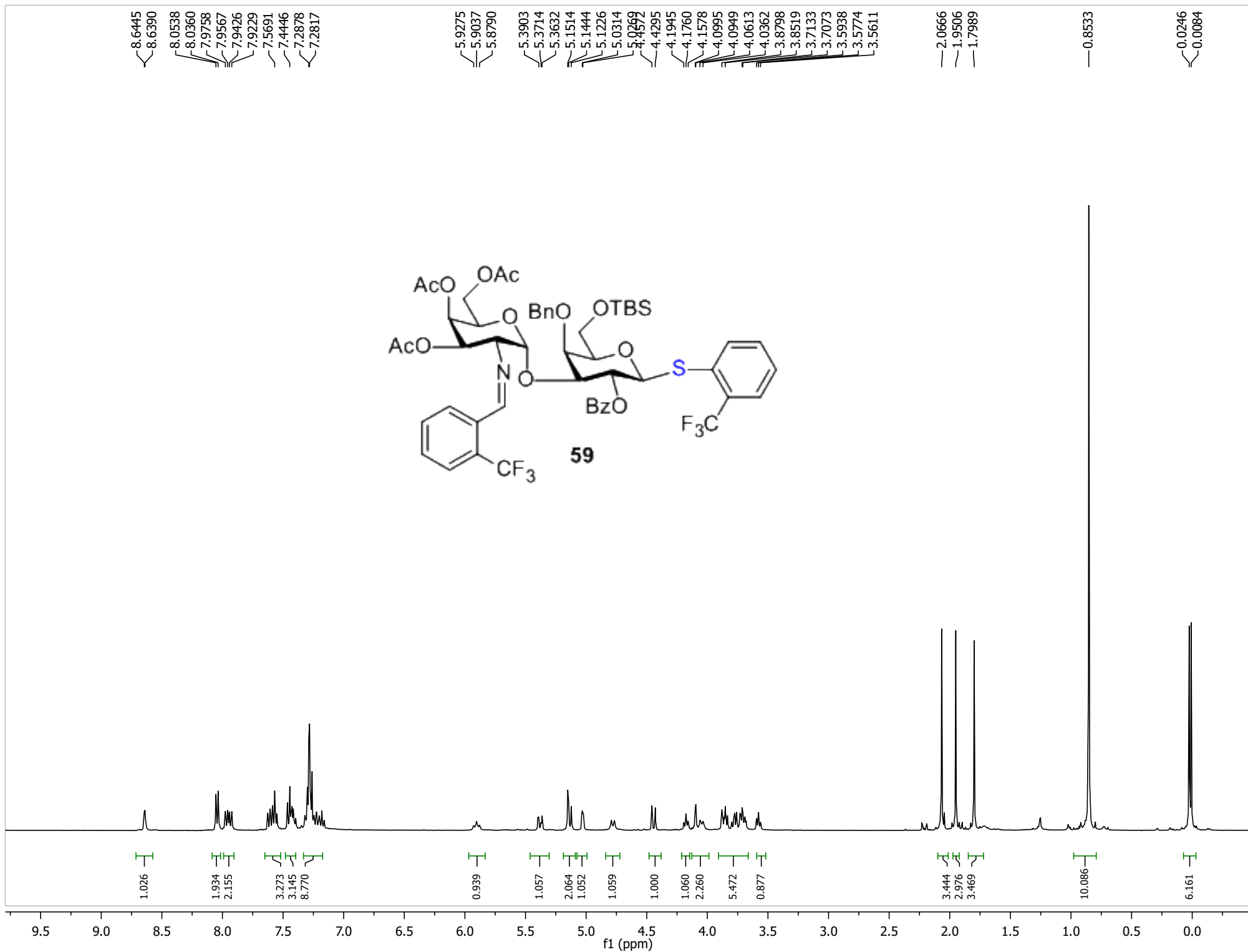


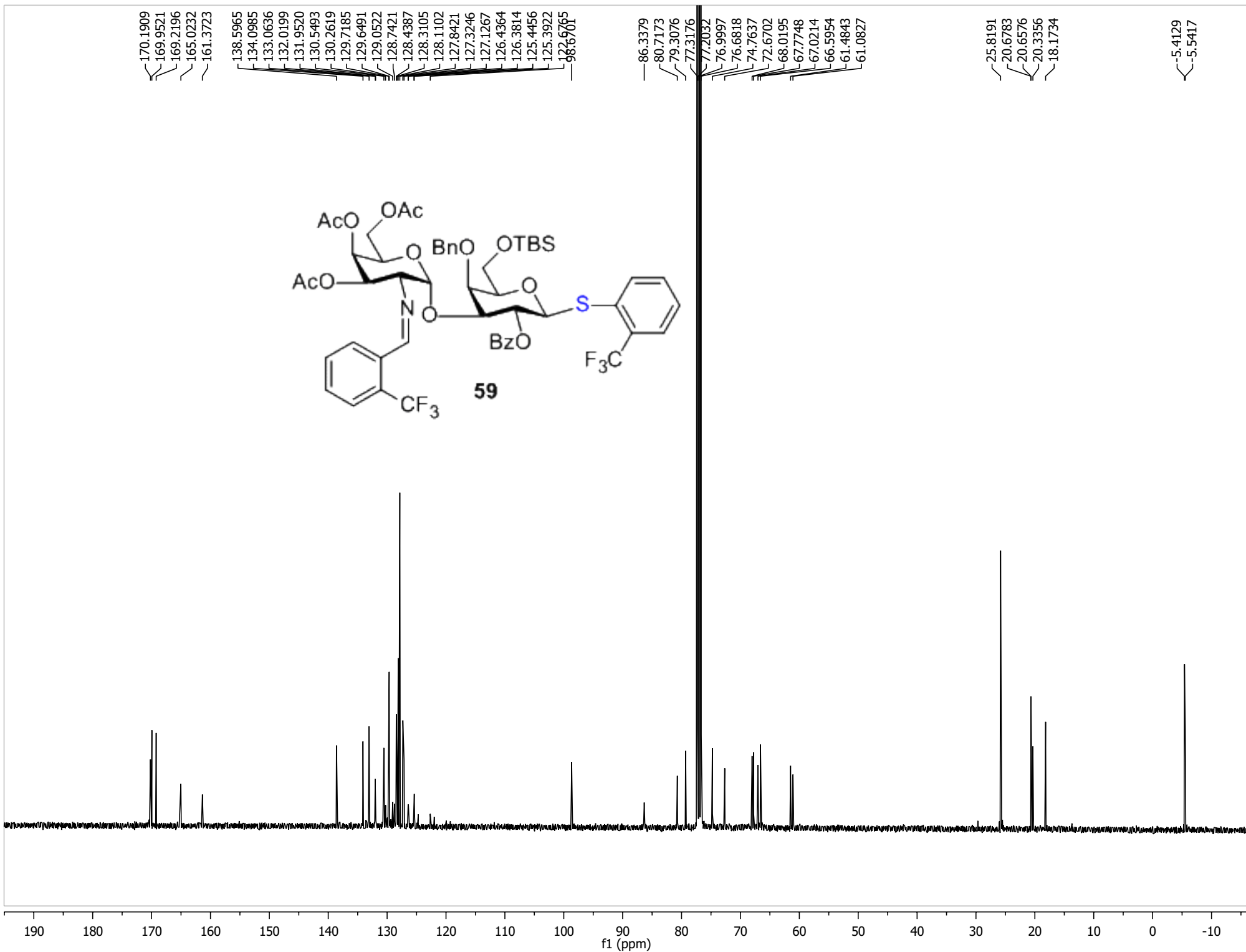


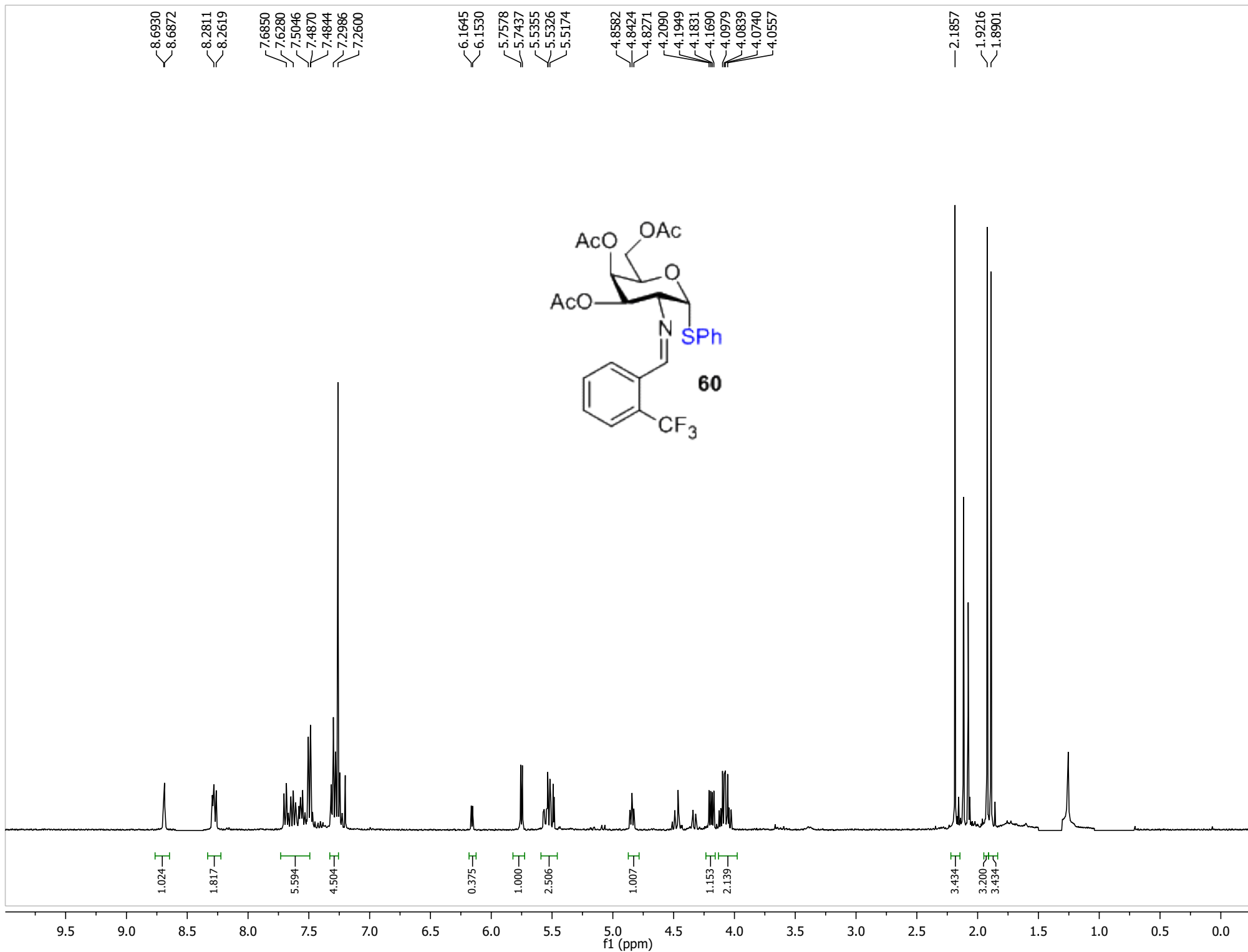


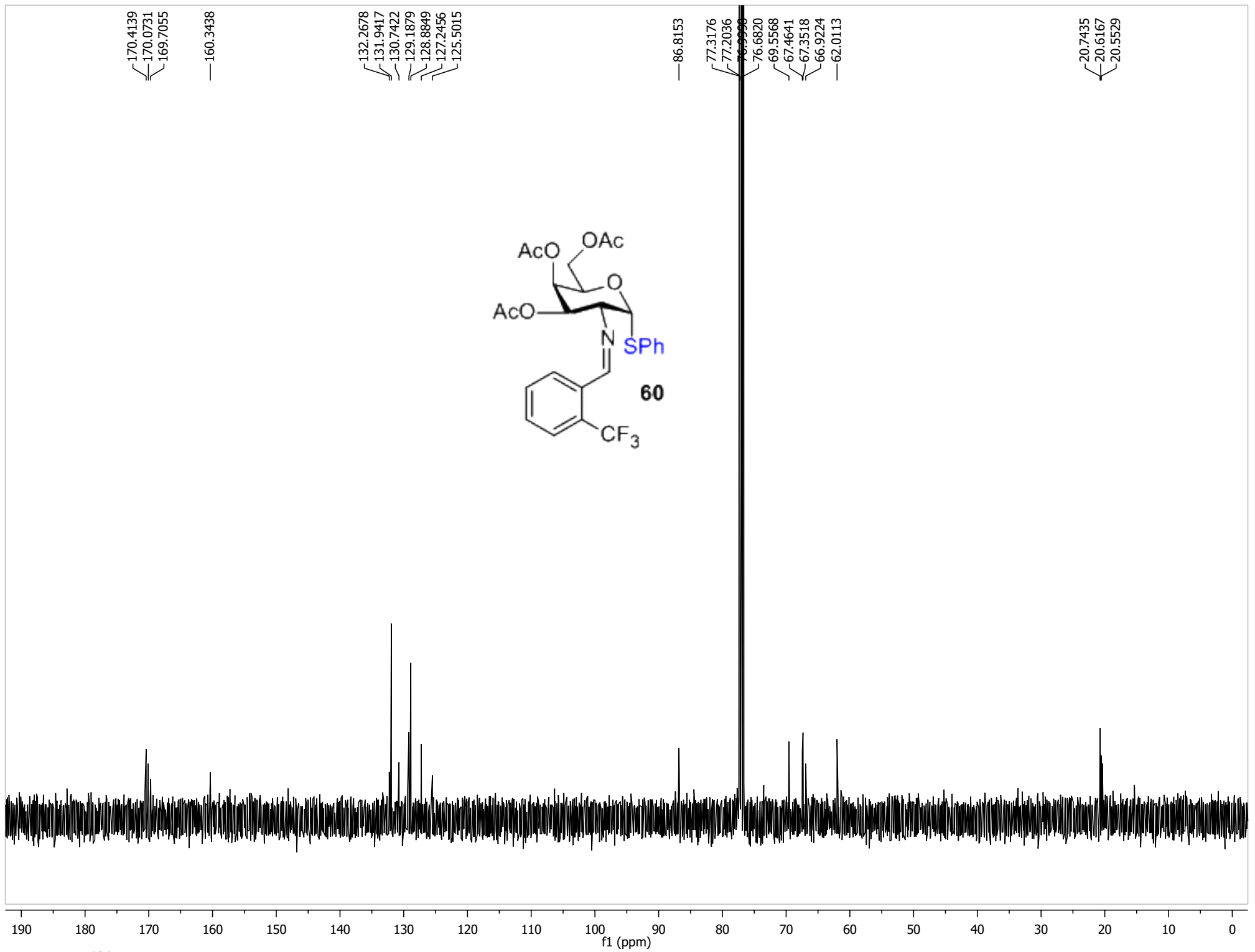


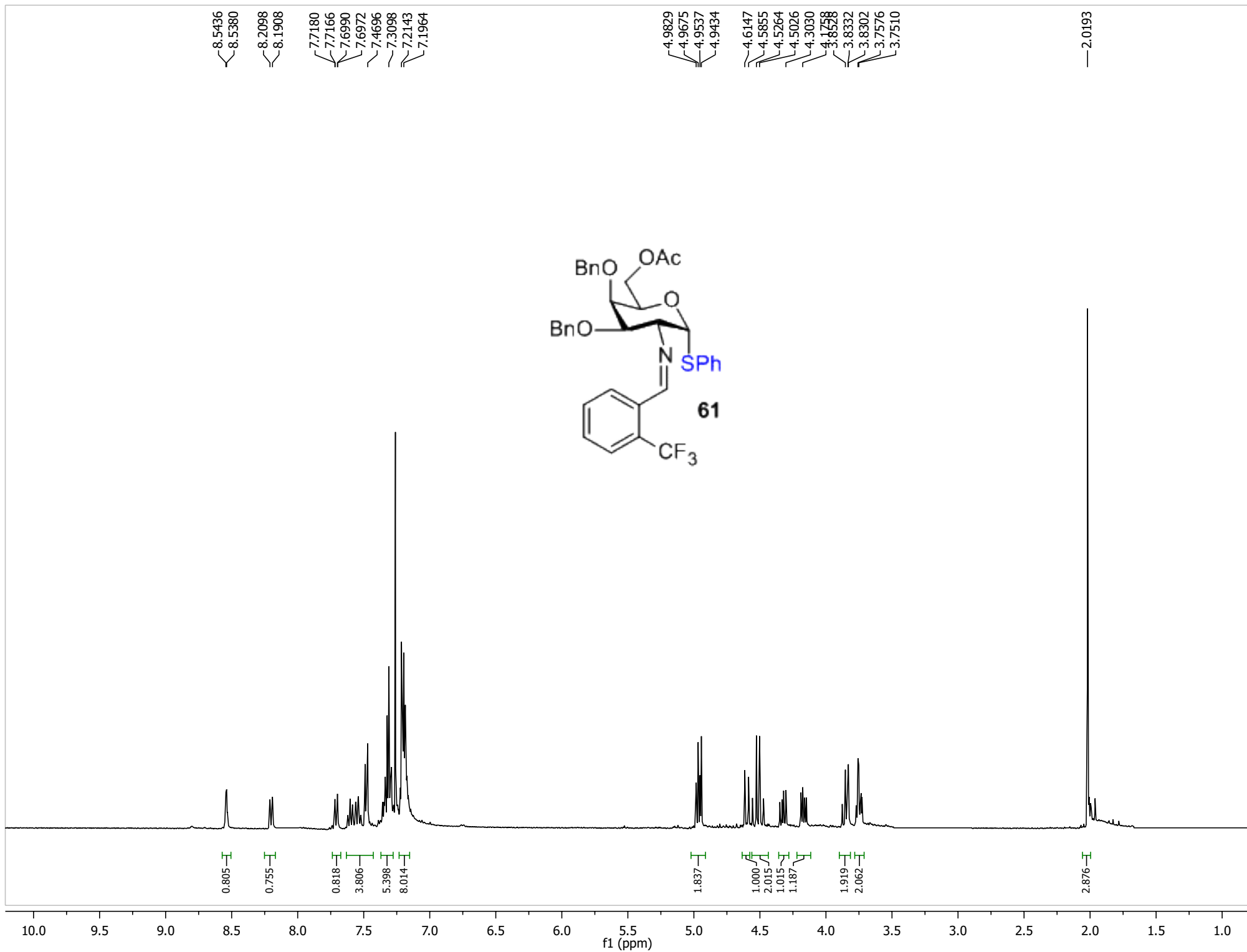


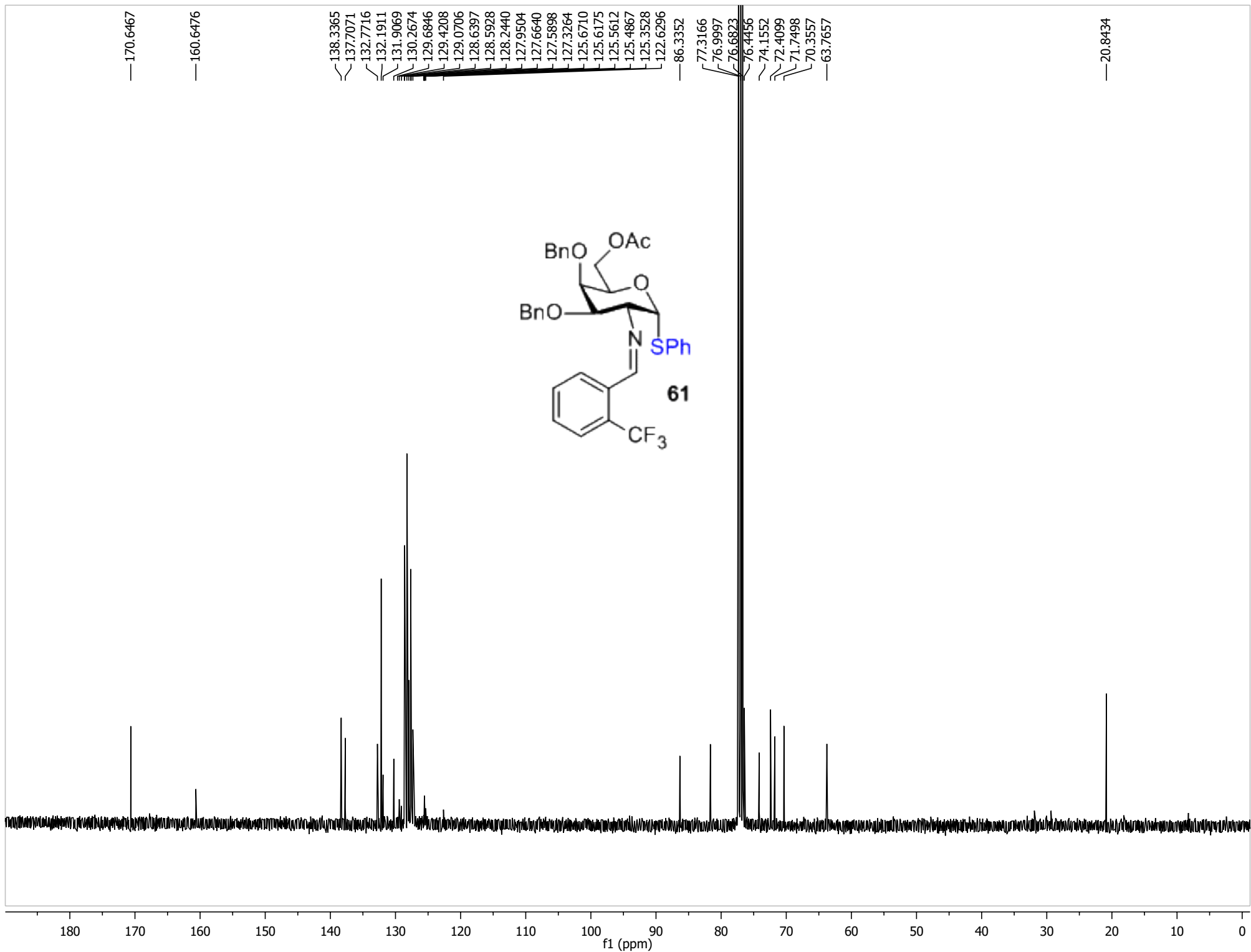


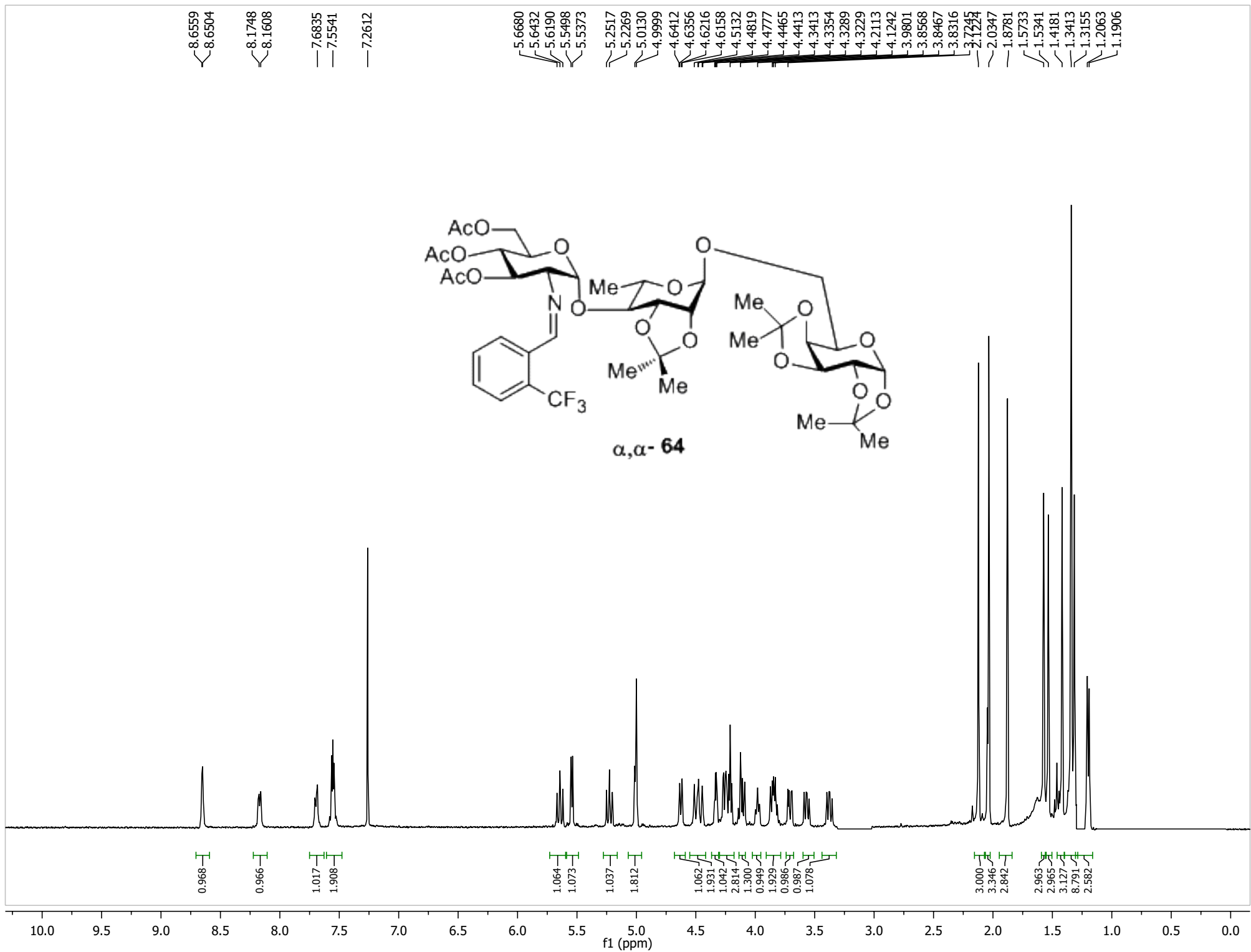


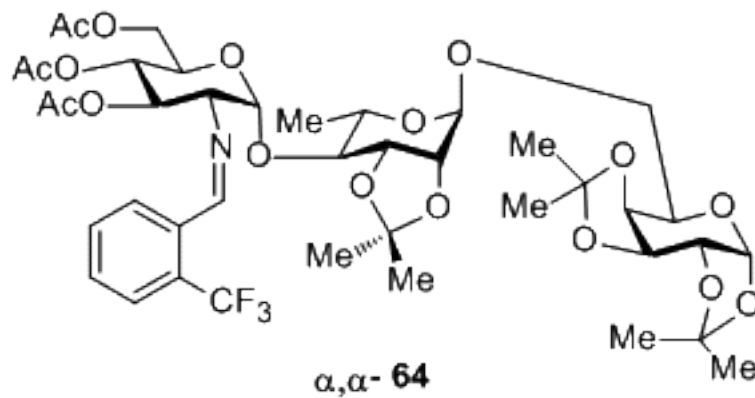












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169.8985

161.1810

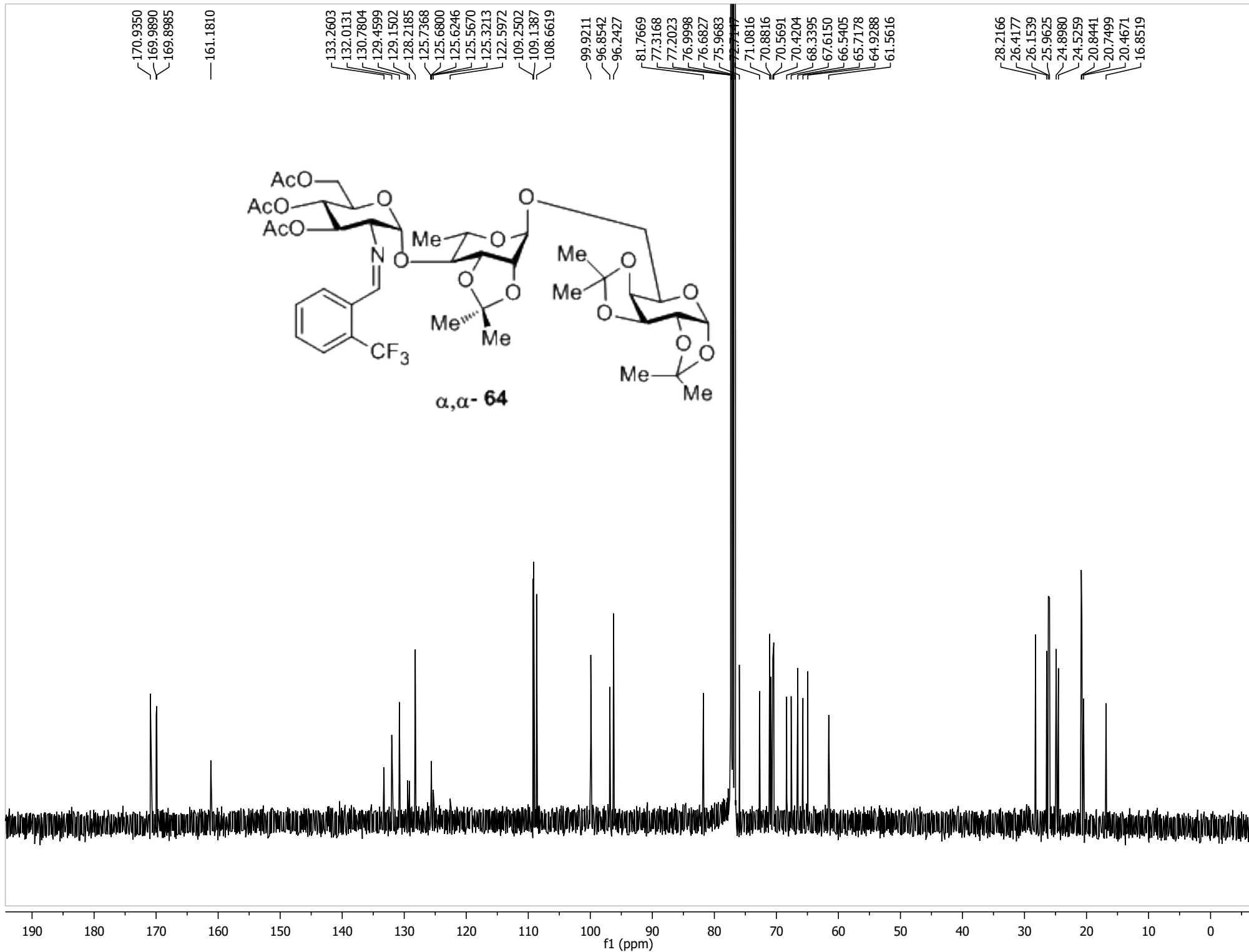
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122.5972
109.2502
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108.6619

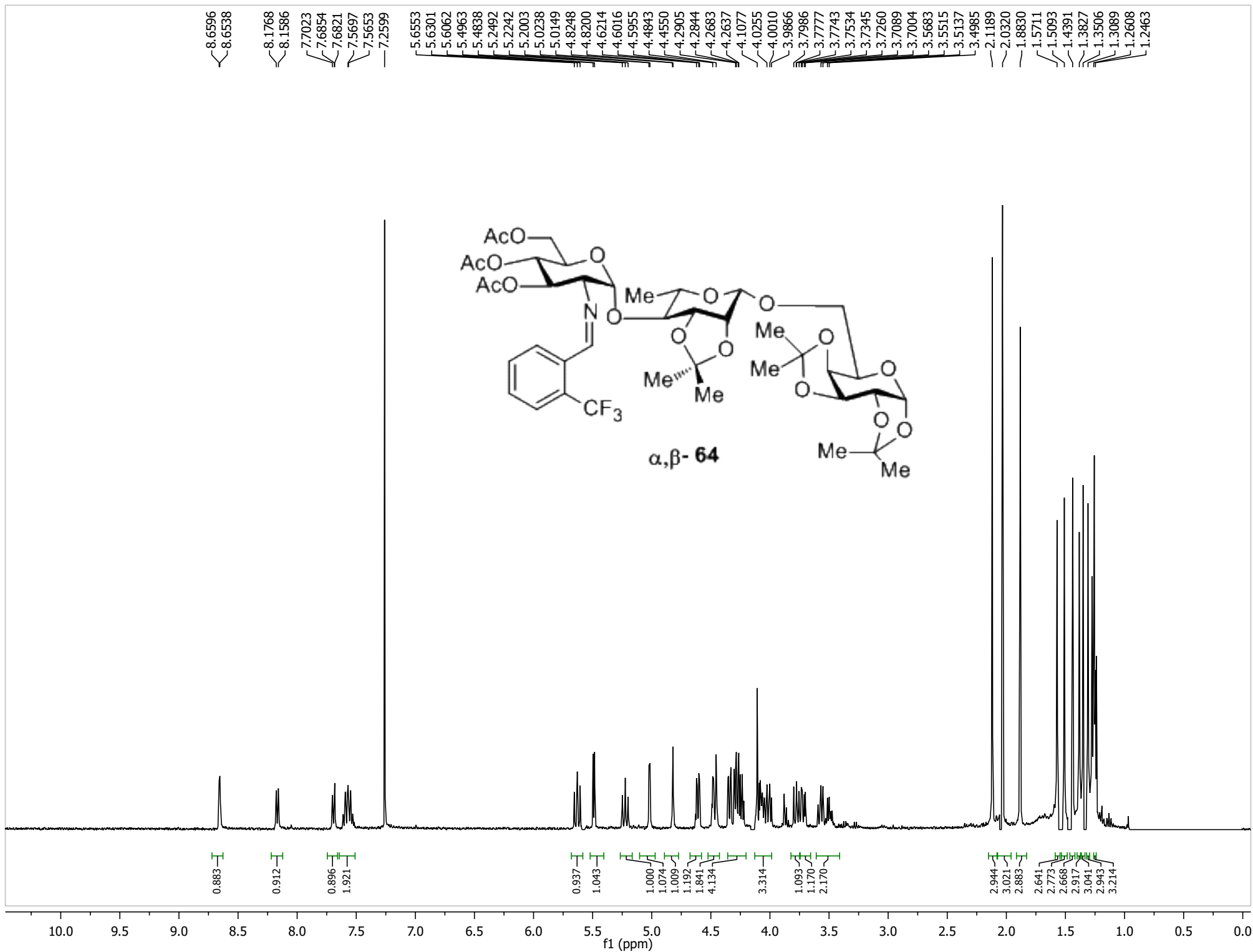
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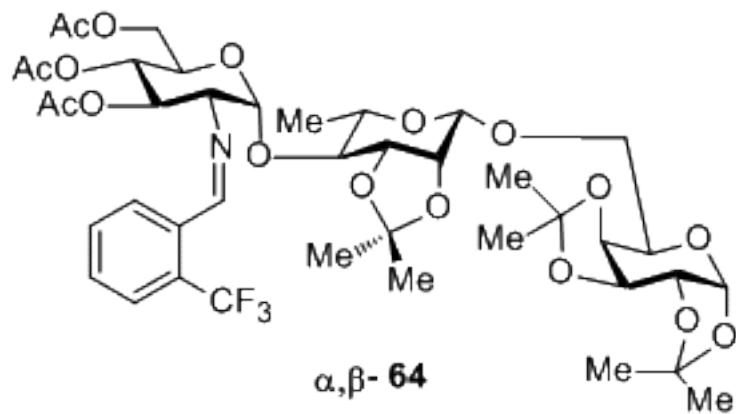
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70.5691
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68.3395
67.6150
66.5405
65.7178
64.9288
61.5616

28.2166
26.4177
26.1539
25.9625
24.8980
24.5259
20.8441
20.7499
20.4671
16.8519







170.9175
169.9568

161.2947

130.8393
128.2773

110.6611
109.0700
108.5521

99.8537
98.8098
96.2046

81.5252
77.3175
77.2038
77.0000
76.6827
74.5847

74.5976
70.8592
70.7242
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67.7330
65.4559
61.5642

28.0379
26.4689
26.0660
25.9879
24.8188
24.4756
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20.7425
20.4521
17.6068

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f1 (ppm)

spect, CDCl₃

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8.2533
8.2346

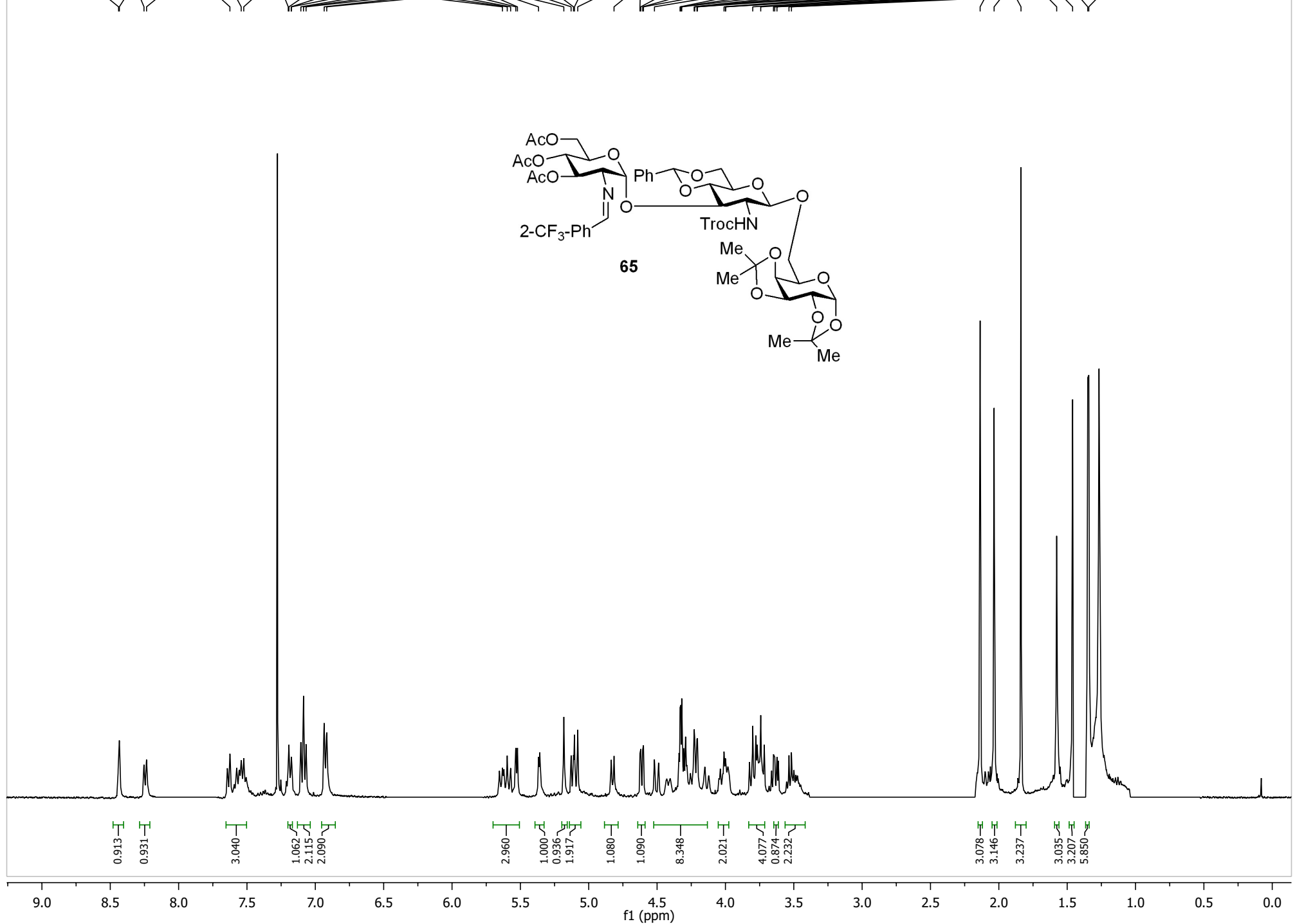
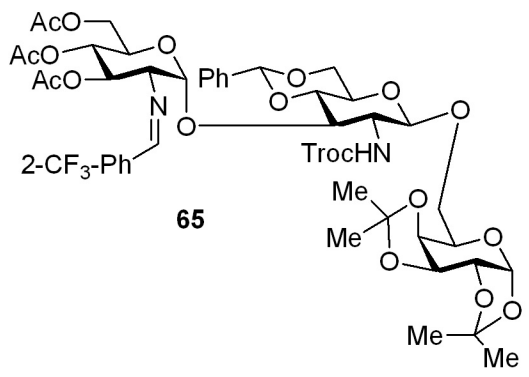
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7.1748
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7.0864
7.0678
6.9352
6.9165

5.6311
5.5961
5.5713
5.5336
5.5213
5.3673
5.1821
5.1291
5.1114
5.1043
5.0803

4.8149
4.6251
4.6192
4.6055
4.5995
4.5193
4.3320
4.3256
4.3195
4.2288
4.2248
4.2084
4.2049
4.0103
4.0001
3.9983
3.8002
3.7418
3.6485
3.6392
3.6230
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3.5170
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spect, CDCl₃,

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160.3116

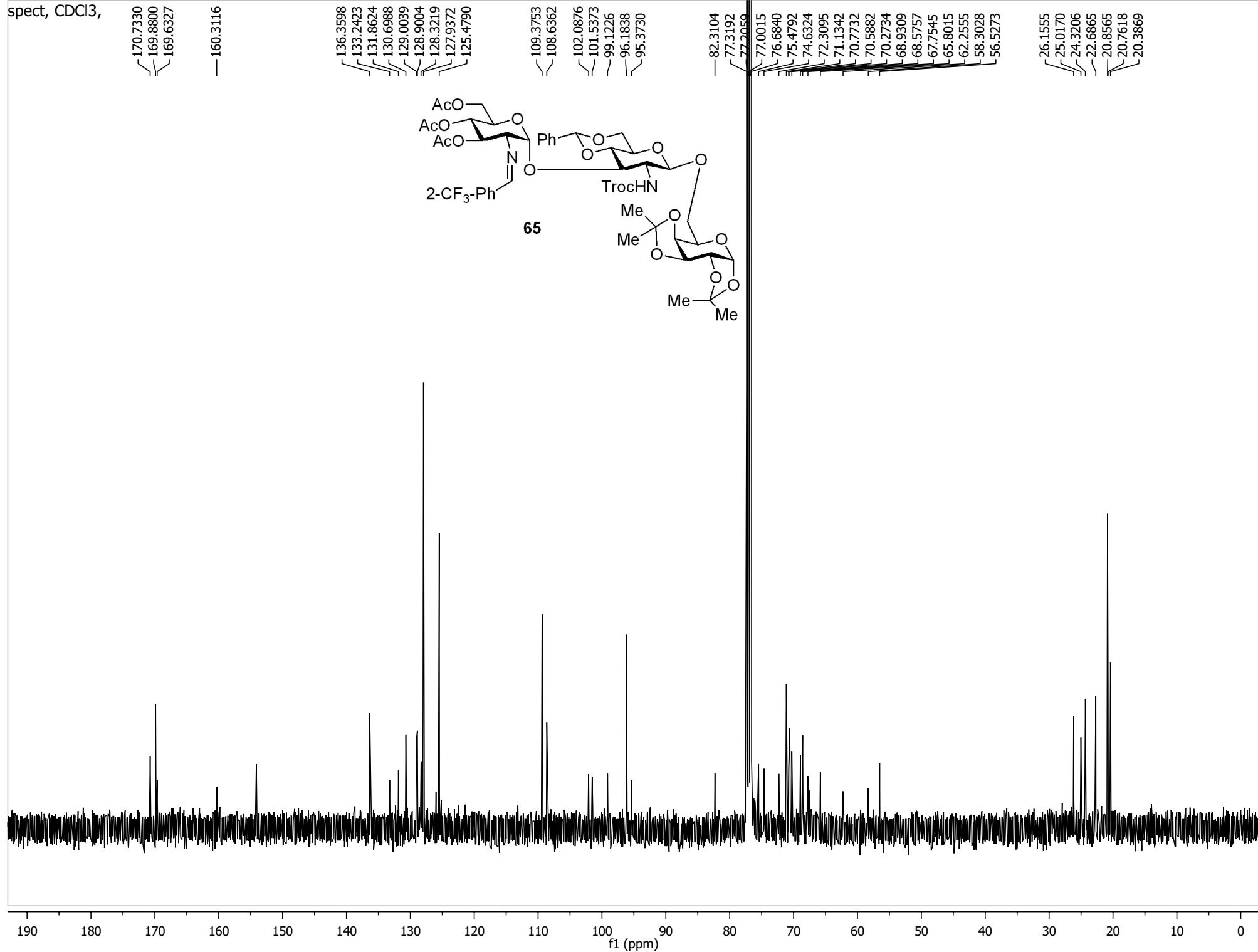
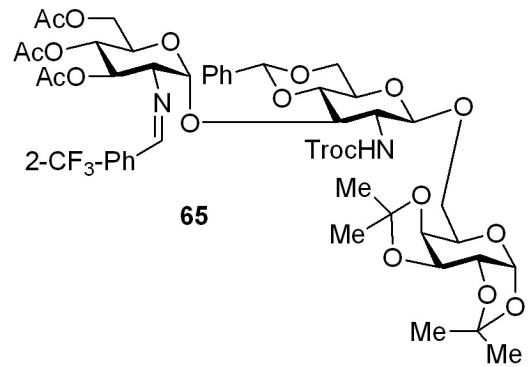
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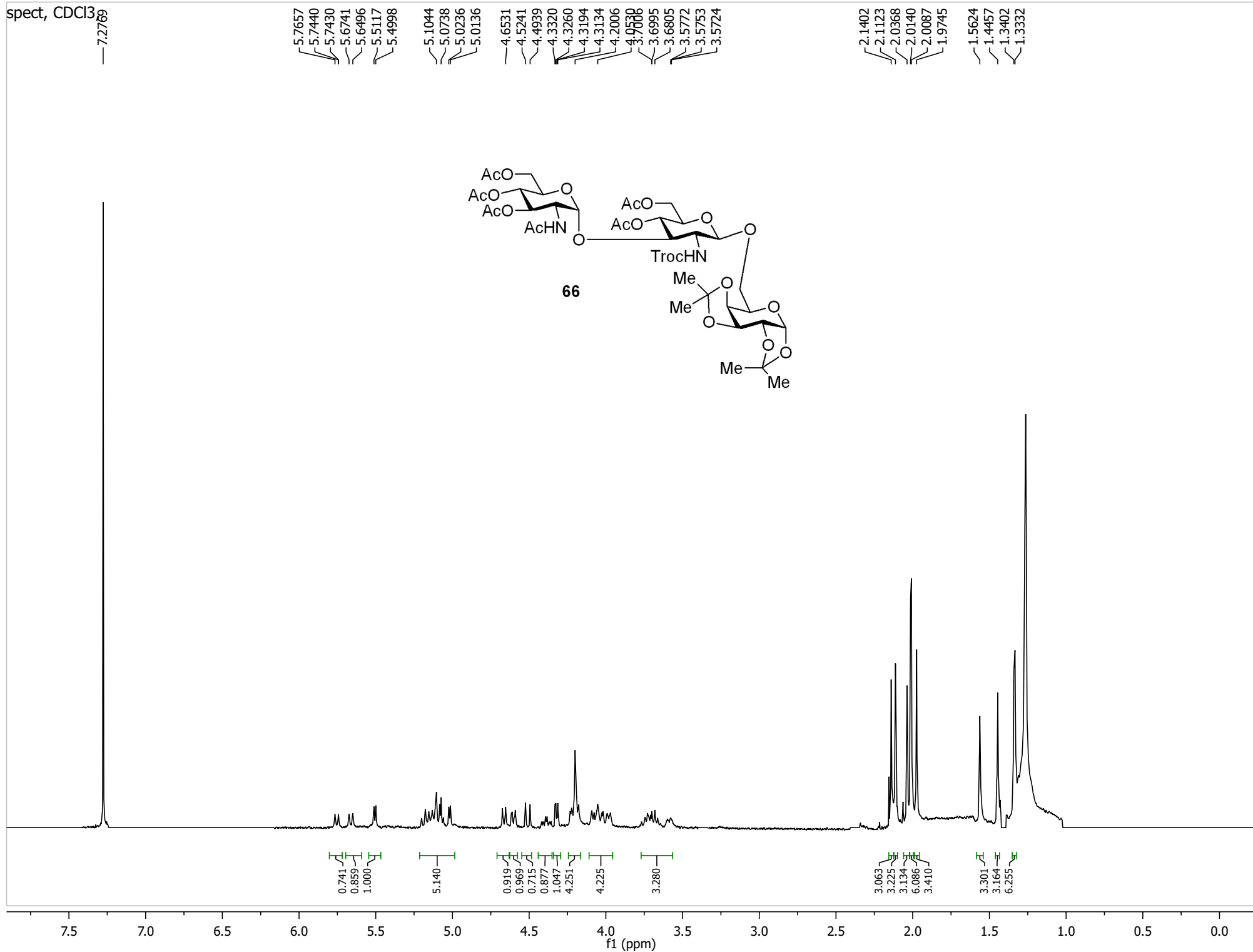
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68.9309
68.5757
67.7545
65.8015
62.2555
58.3028
56.5273

26.1555
25.0170
24.3206
22.6865
20.8565
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spect, CDCl₃



spect, CDCl₃,

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170.5637

109.4186
108.6989

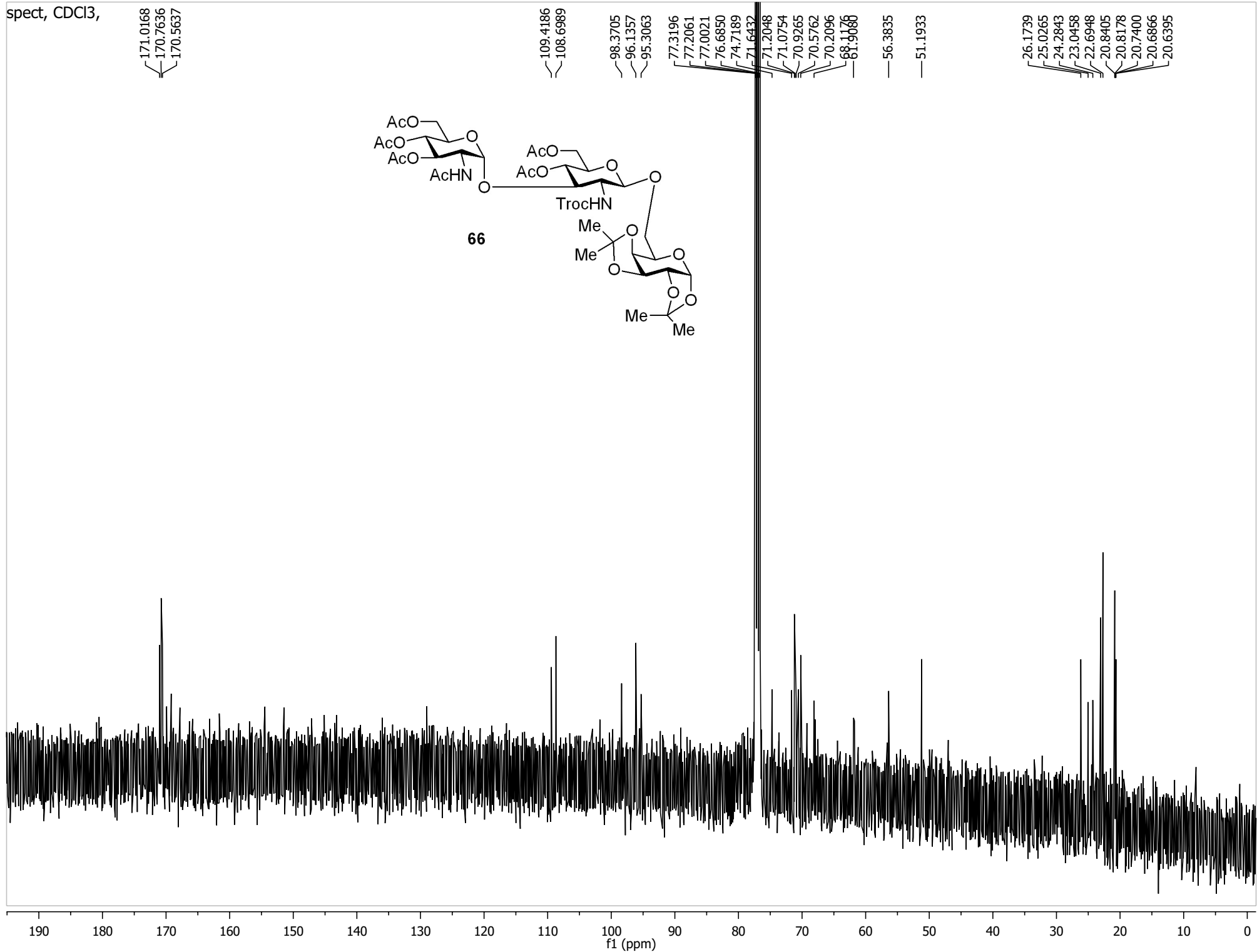
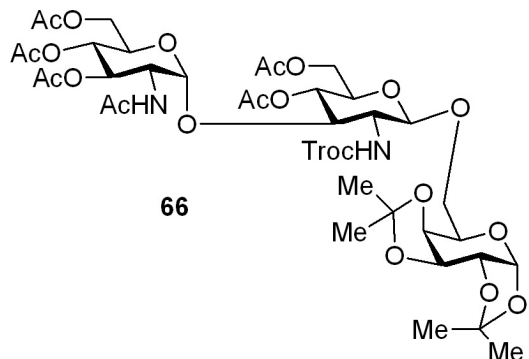
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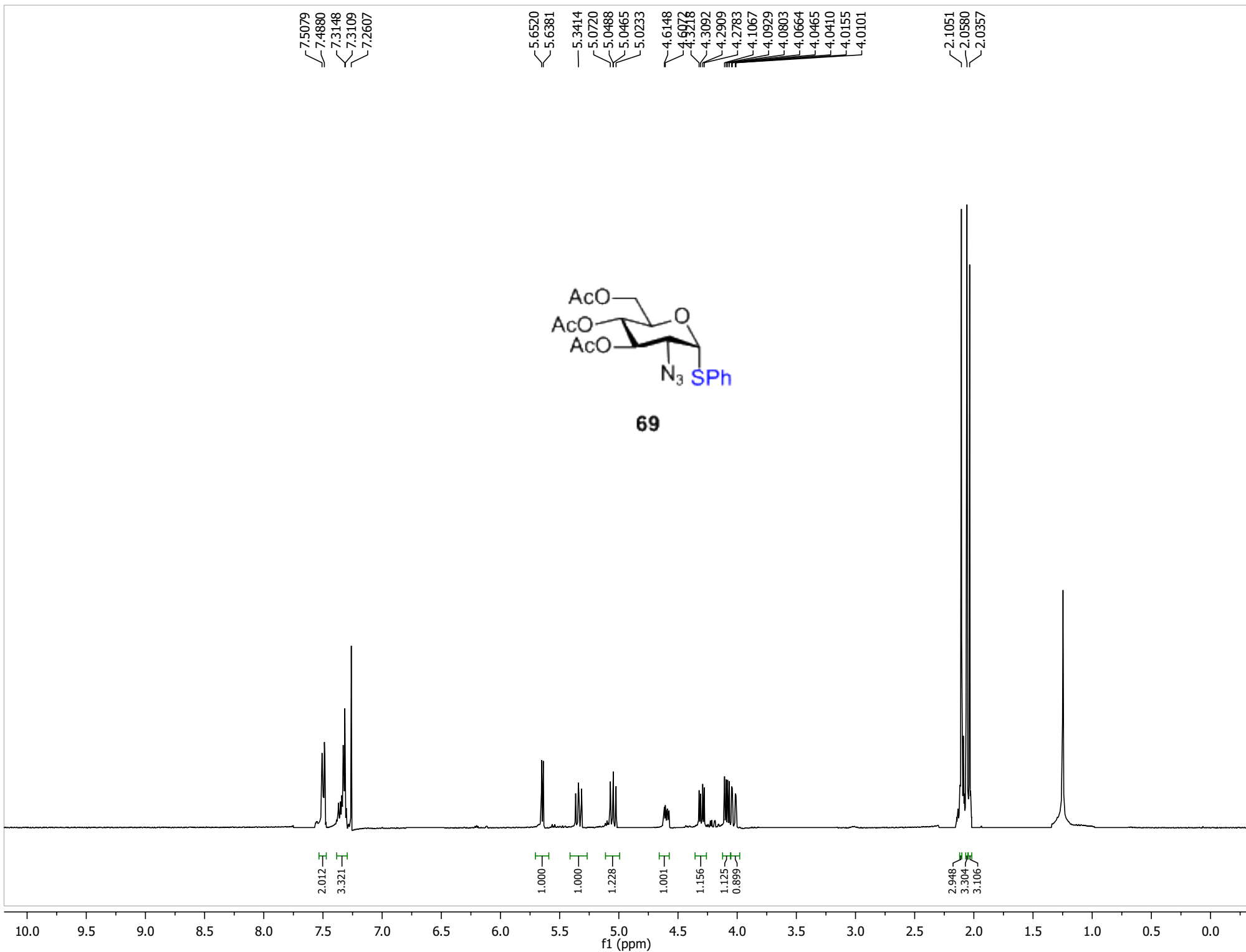
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74.7189
71.6432

71.2048
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70.9265
70.5762
70.2096
68.9080
61.9080

56.3835
51.1933

26.1739
25.0265
24.2843
23.0458
22.6948
20.8405
20.8178
20.7400
20.6866
20.6395





170.5079
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86.4493

77.3181

77.0000

76.6828

72.0157

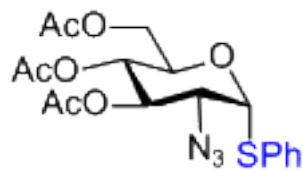
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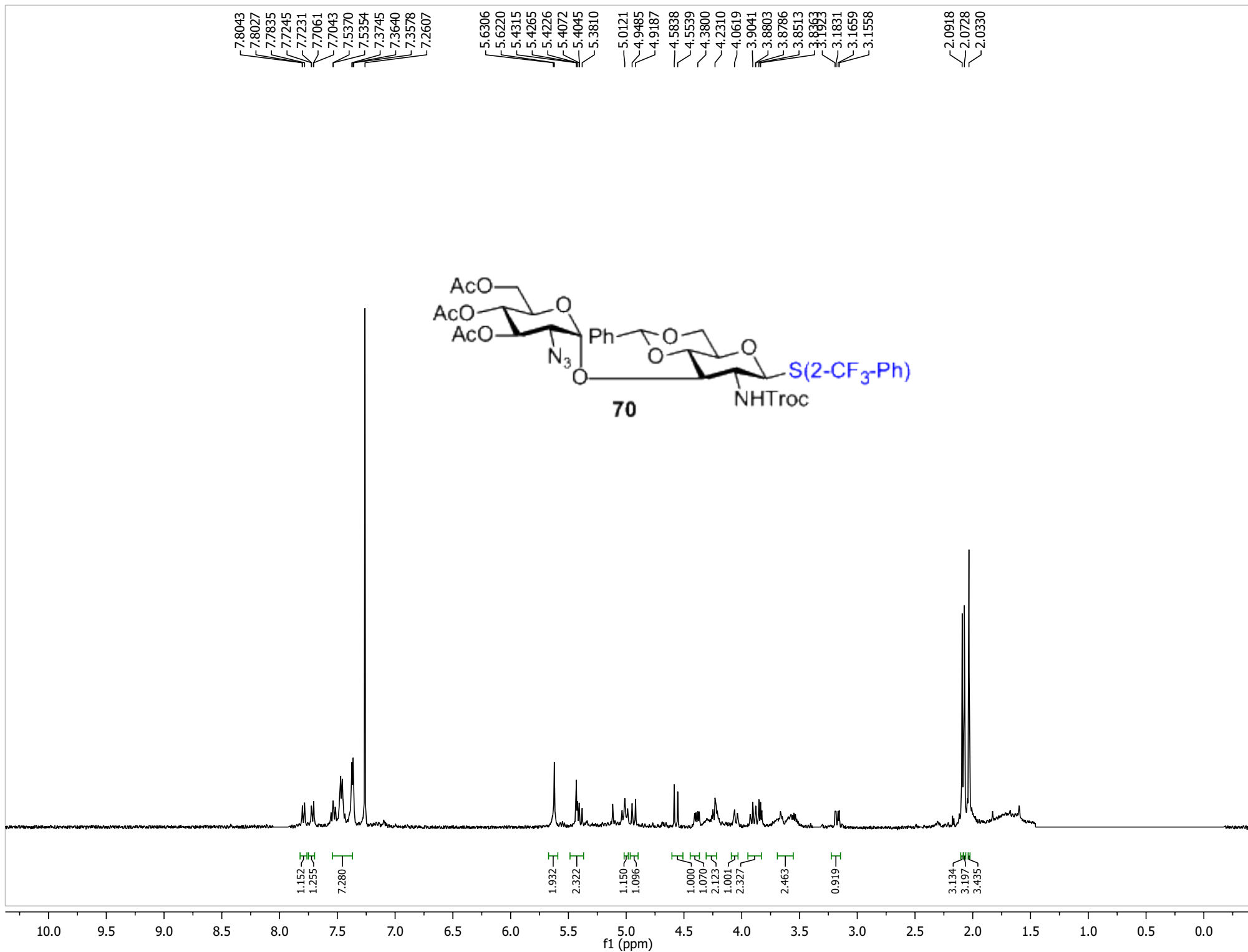
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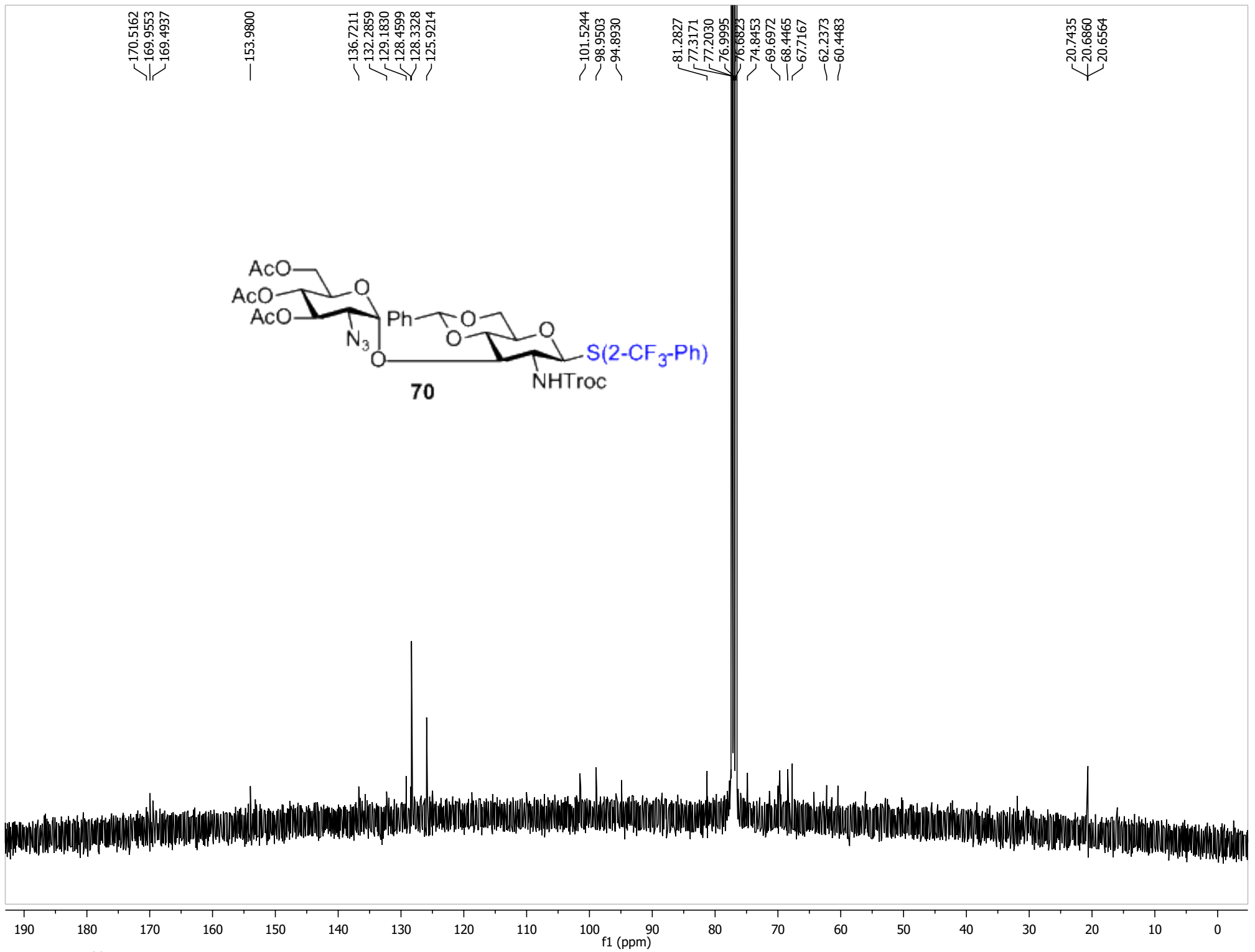
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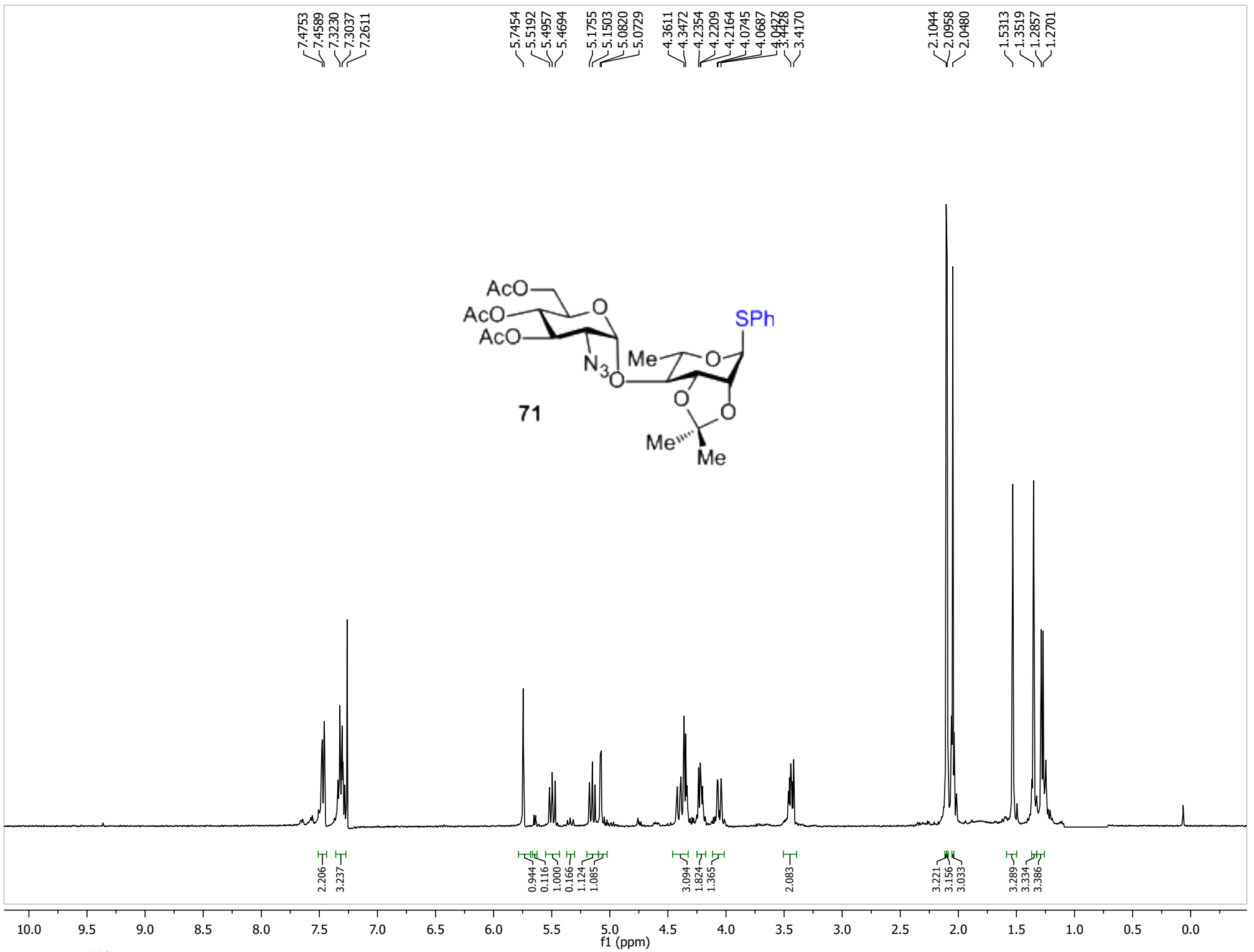


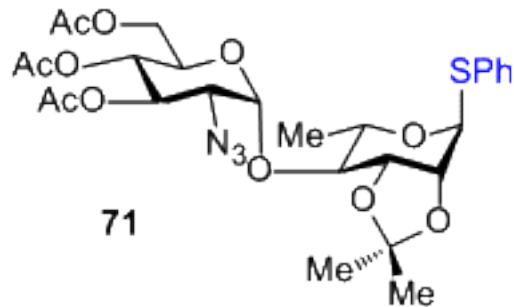
69

190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0
f1 (ppm)









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169.7069

133.0500
131.8717
129.0618
127.6883

109.5356

98.5023

83.4567
82.1659
77.3178
77.0002
76.6825
76.4476
76.3155
70.5939
67.9361
67.5461
66.0465
61.2567
61.1371

28.1863
26.4683
20.7651
20.7281
20.6441
17.2389

