

Supplementary Information

Functionalization of Diazotetronic Acid and Application in a Stereoselective Modular Synthesis of Pulvinone, Aspulvinones A-E, G, Q and their Analogues

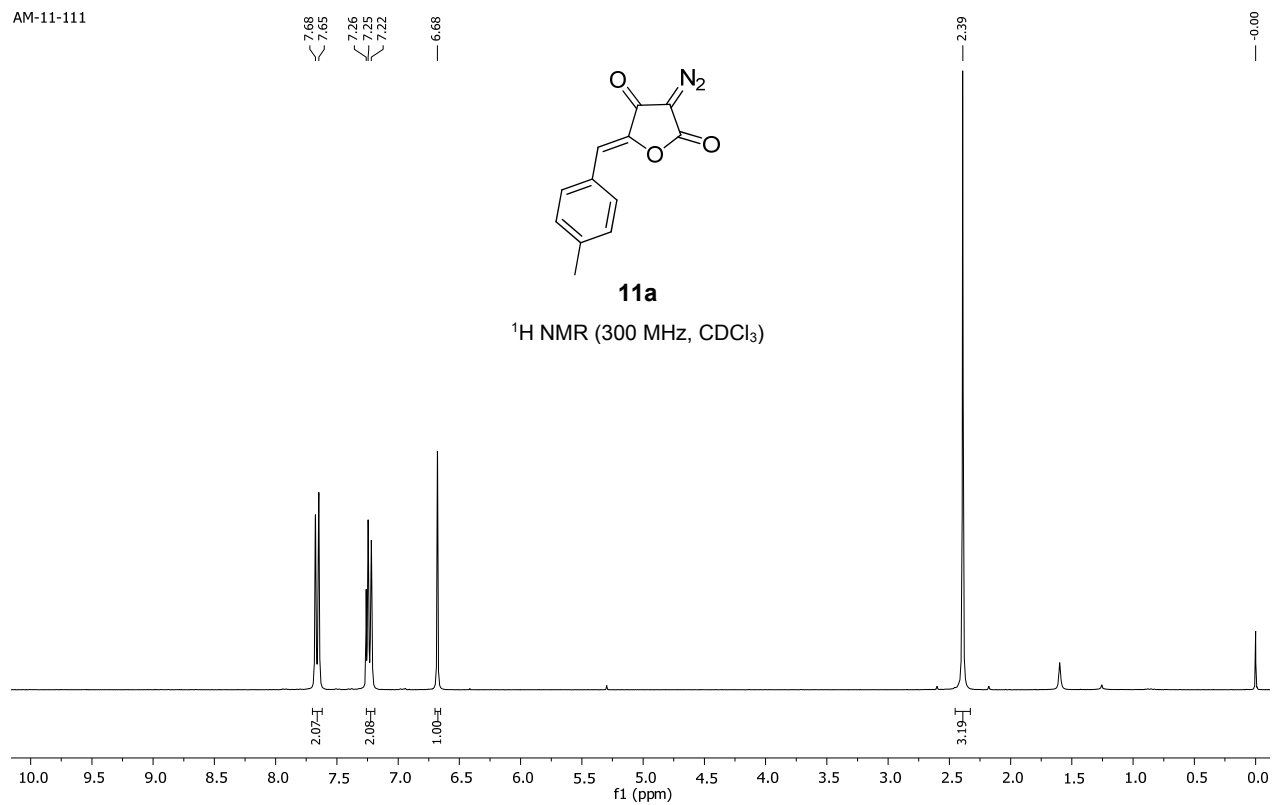
Amarender Manchoju, Ritesh A. Annadate, Lise Desquien and Sunil V. Pansare*

Department of Chemistry, Memorial University of Newfoundland

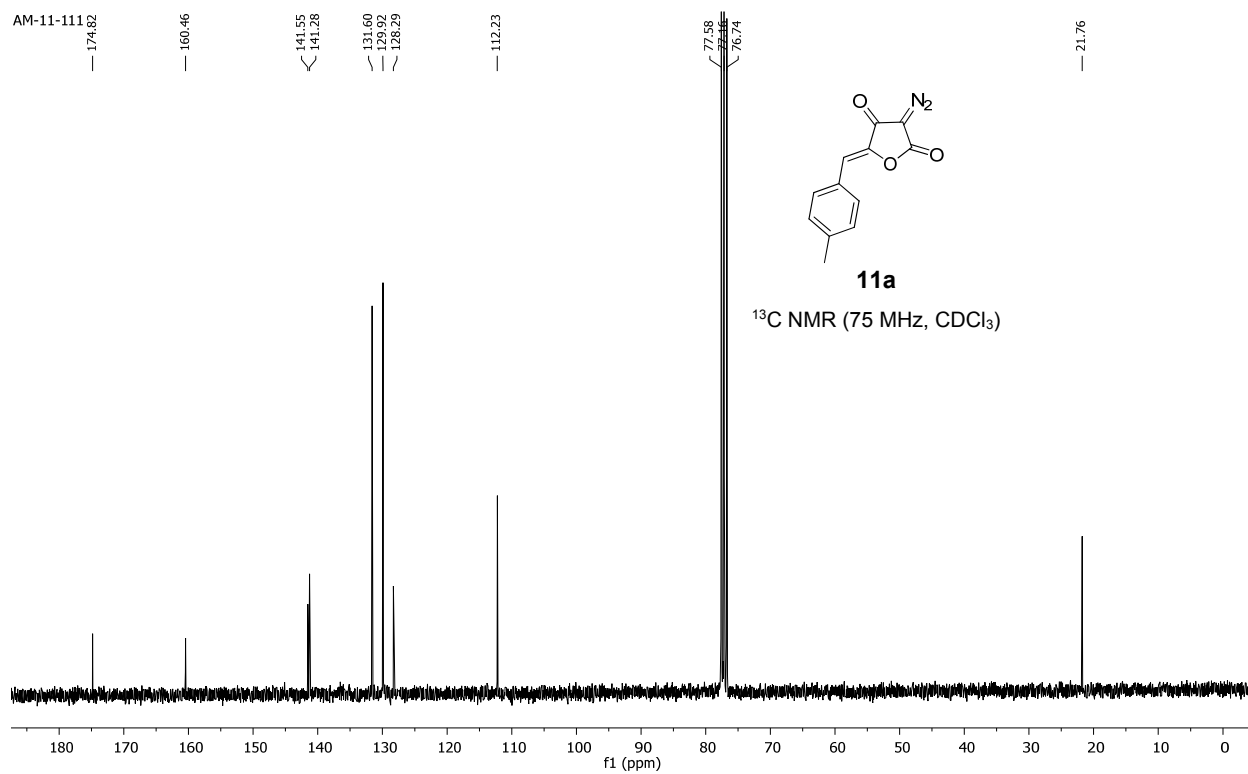
St. John's, Newfoundland, Canada A1B 3X7

¹H and ¹³C Spectra.....2-40

AM-11-111



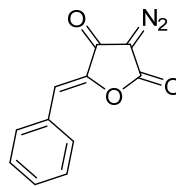
AM-11-111
174.82



AM-10-159A

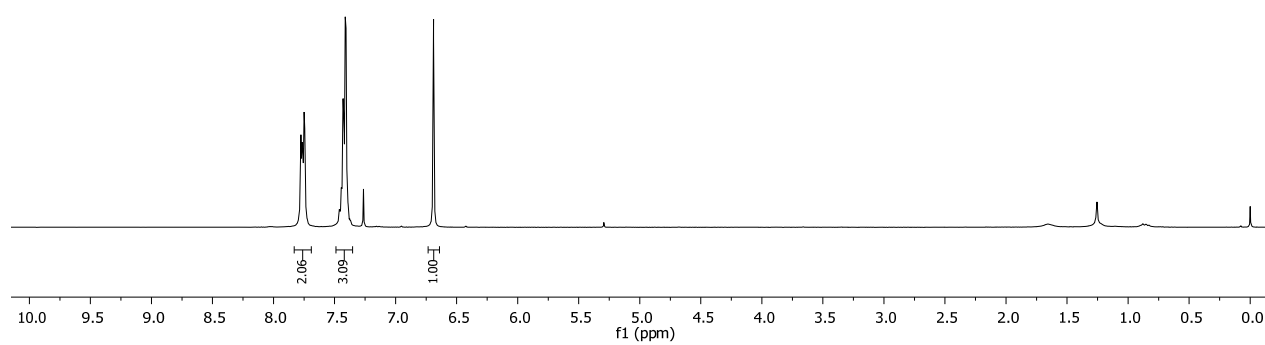
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7.77
7.75
7.74
7.46
7.45
7.44
7.43
7.42
7.41
7.26
6.09

-0.00



11b

¹H NMR (300 MHz, CDCl₃)



AM-10-159A

174.78

160.29

142.10

131.52

131.04

130.52

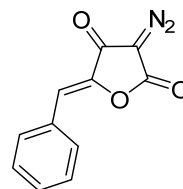
129.11

111.90

77.58

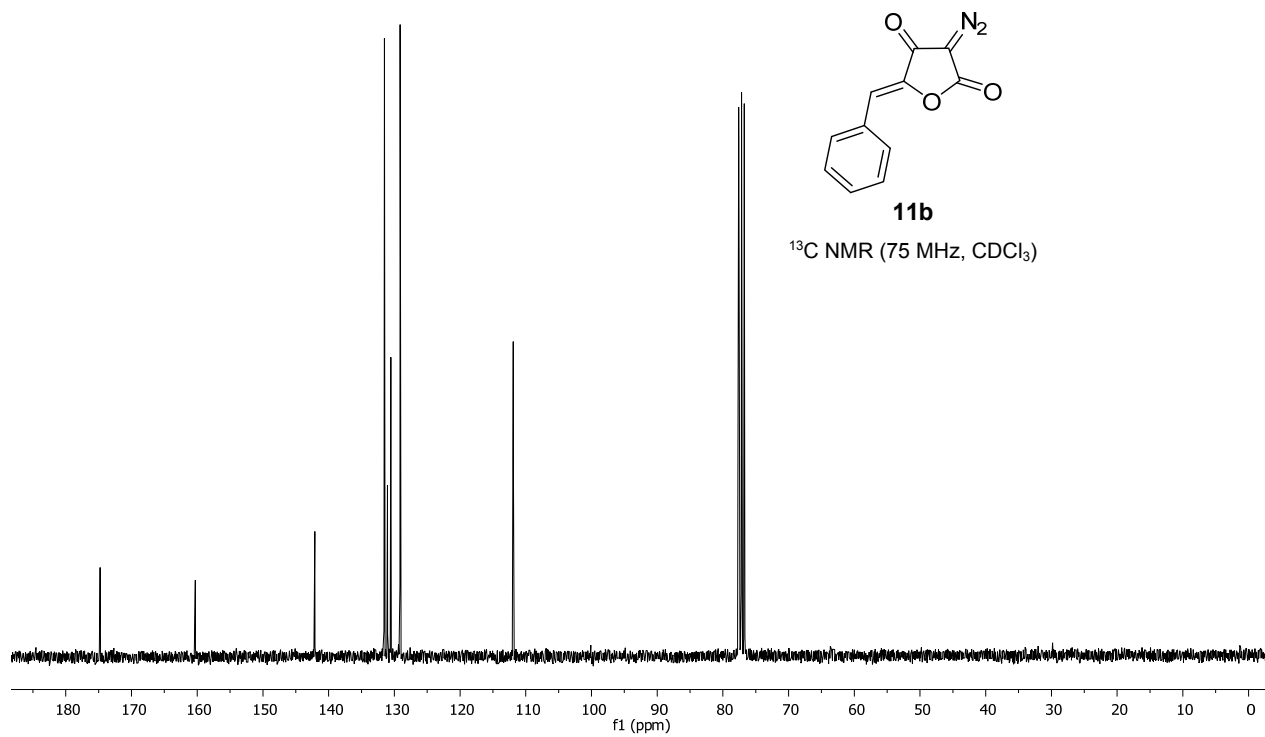
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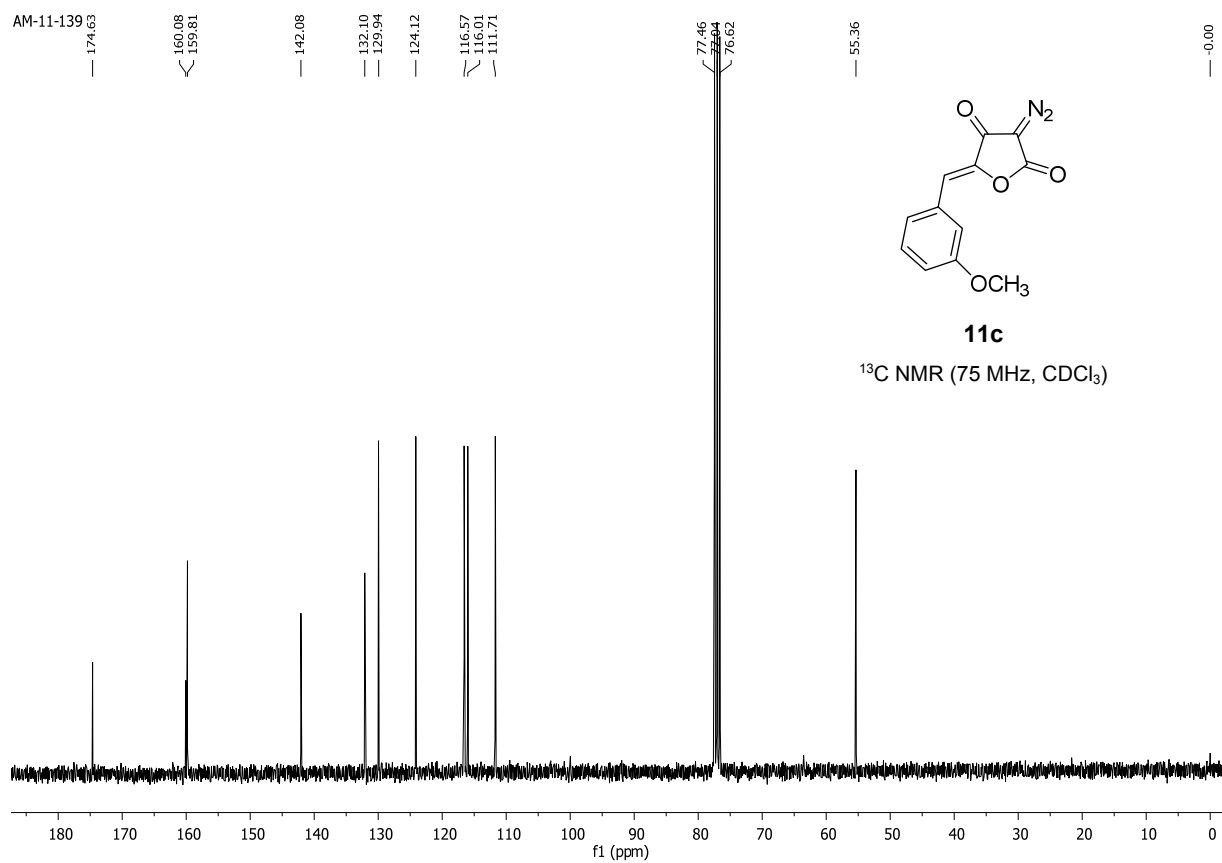
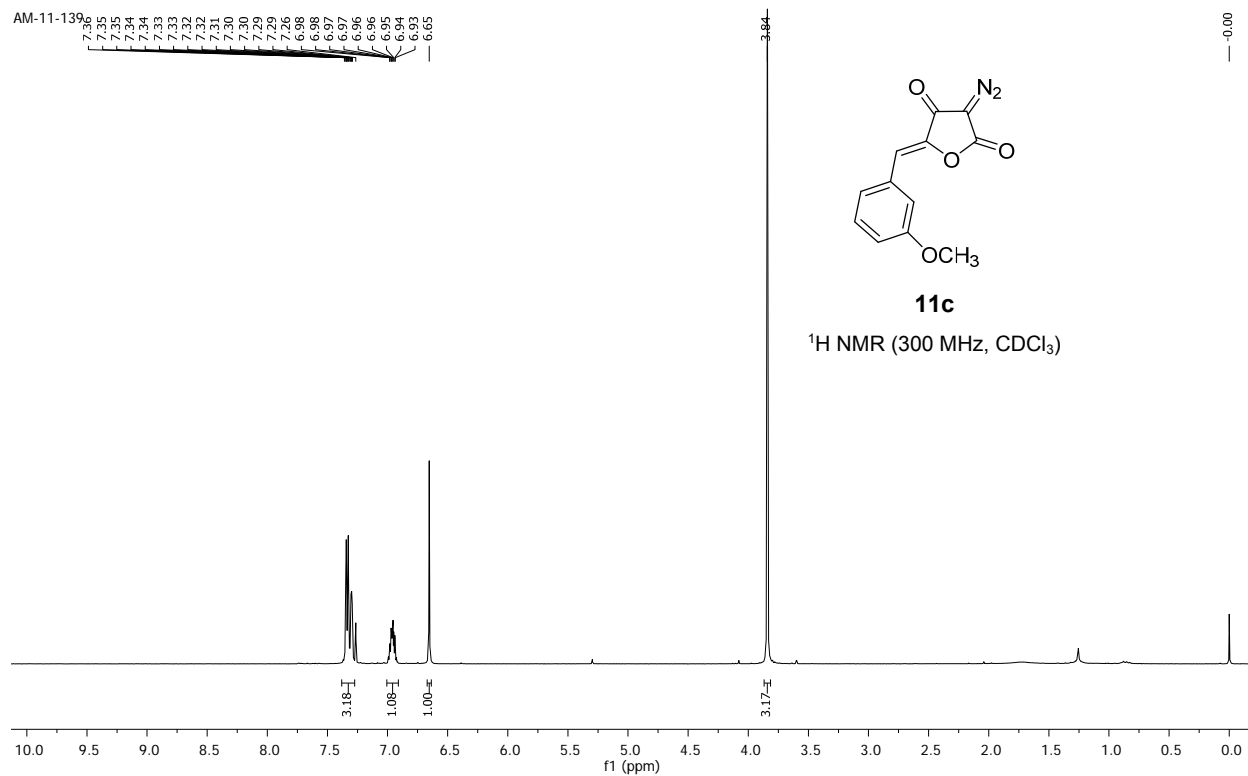
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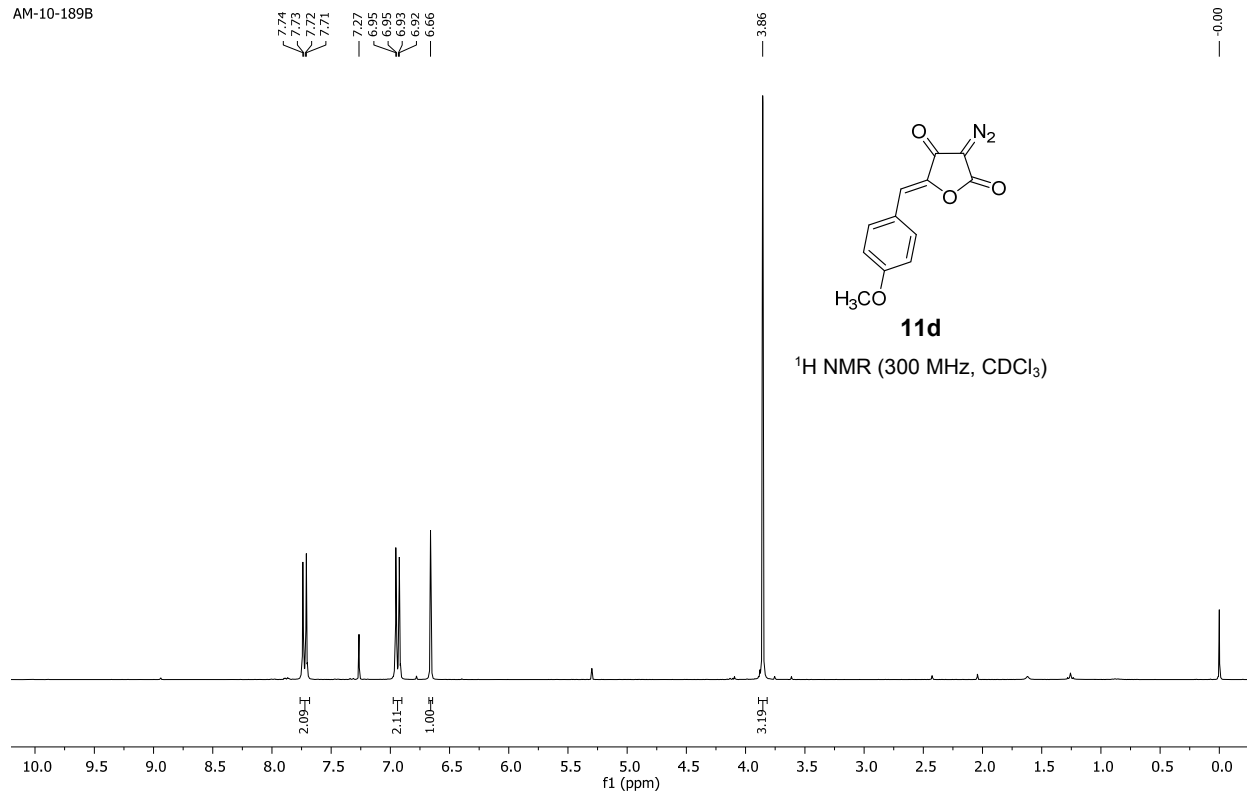
11b

¹³C NMR (75 MHz, CDCl₃)

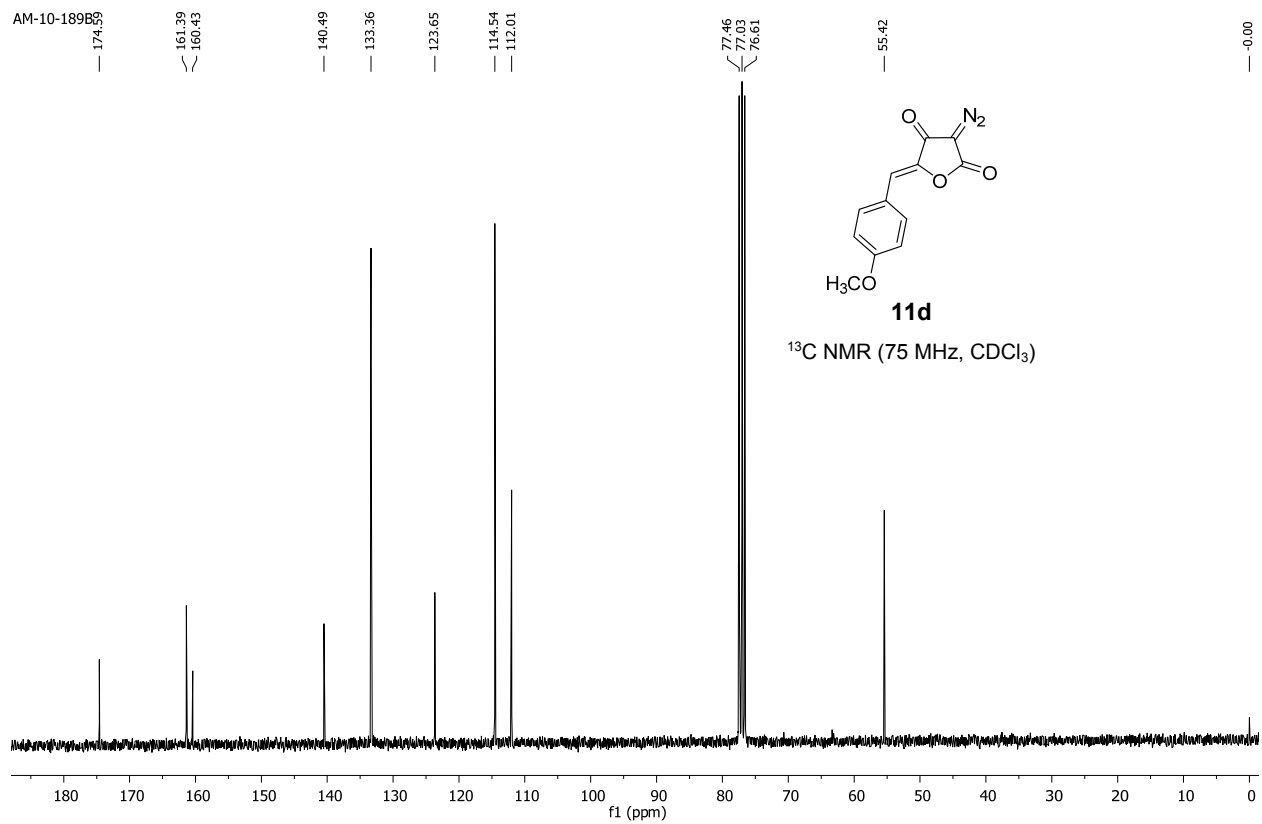




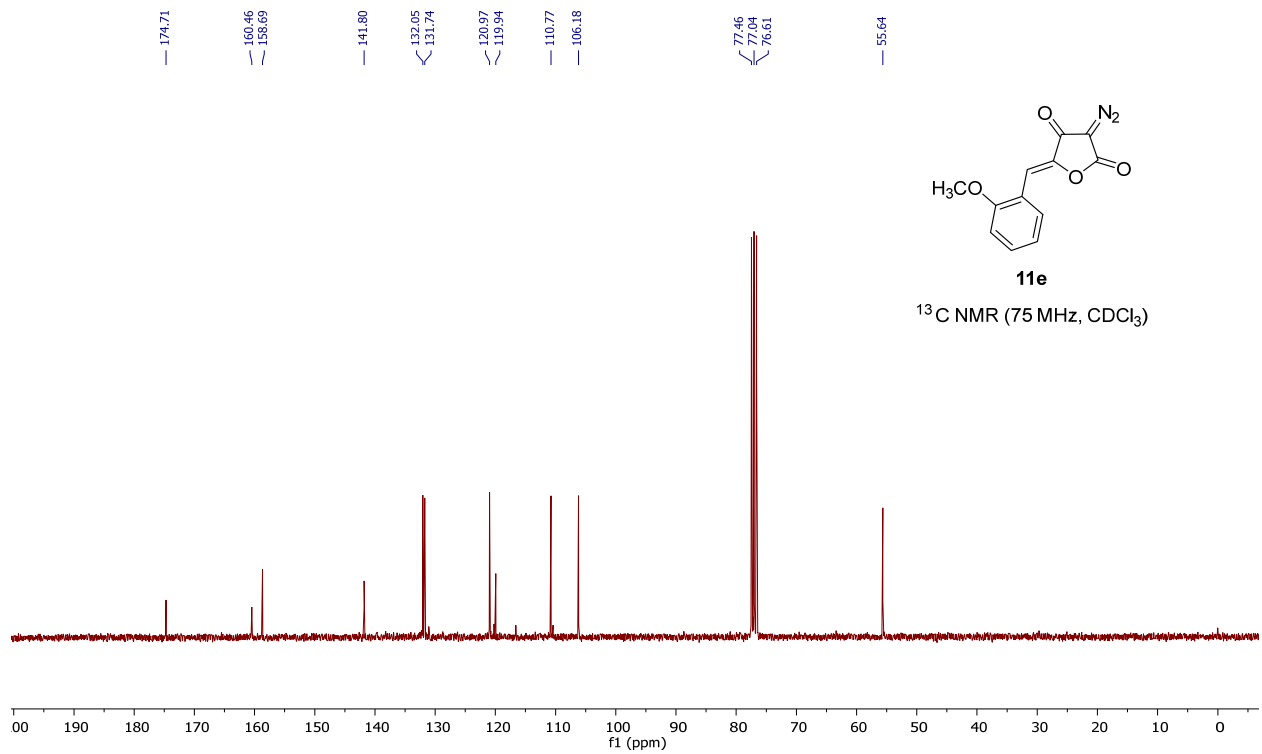
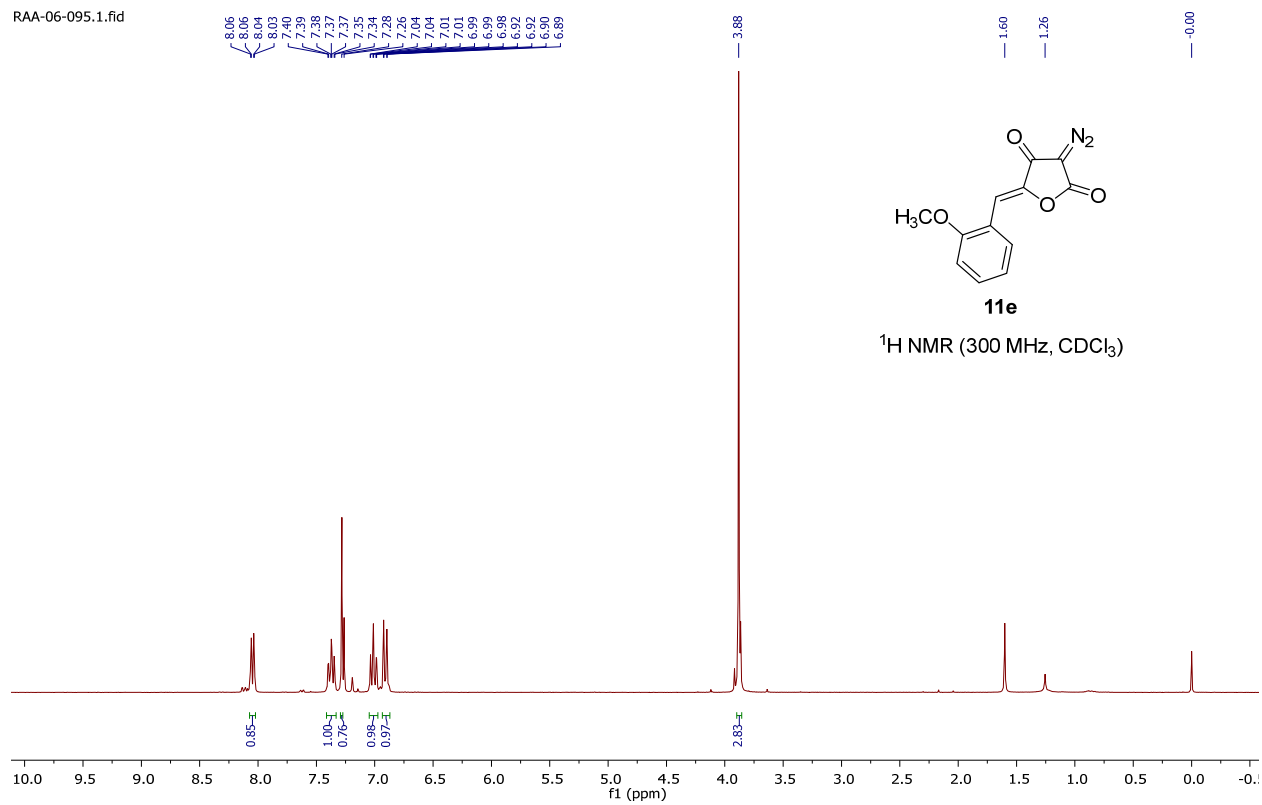
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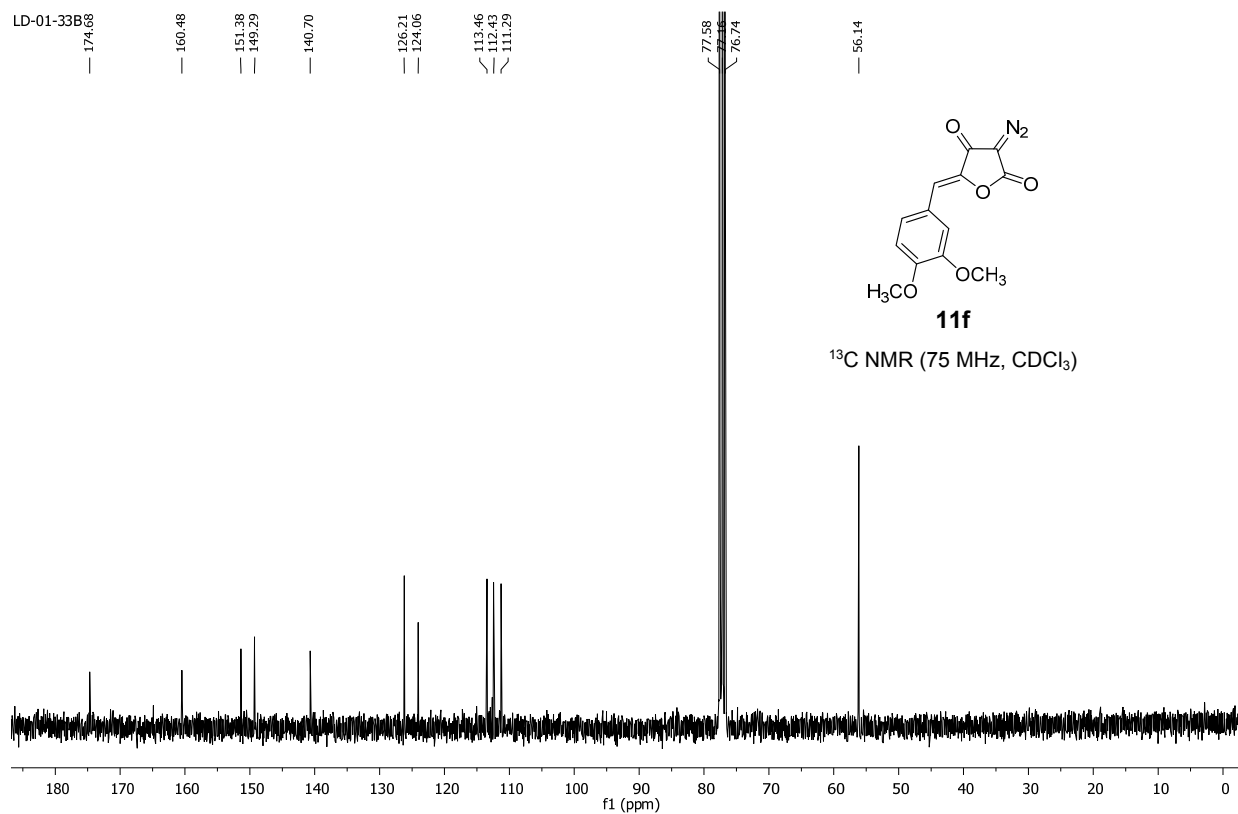
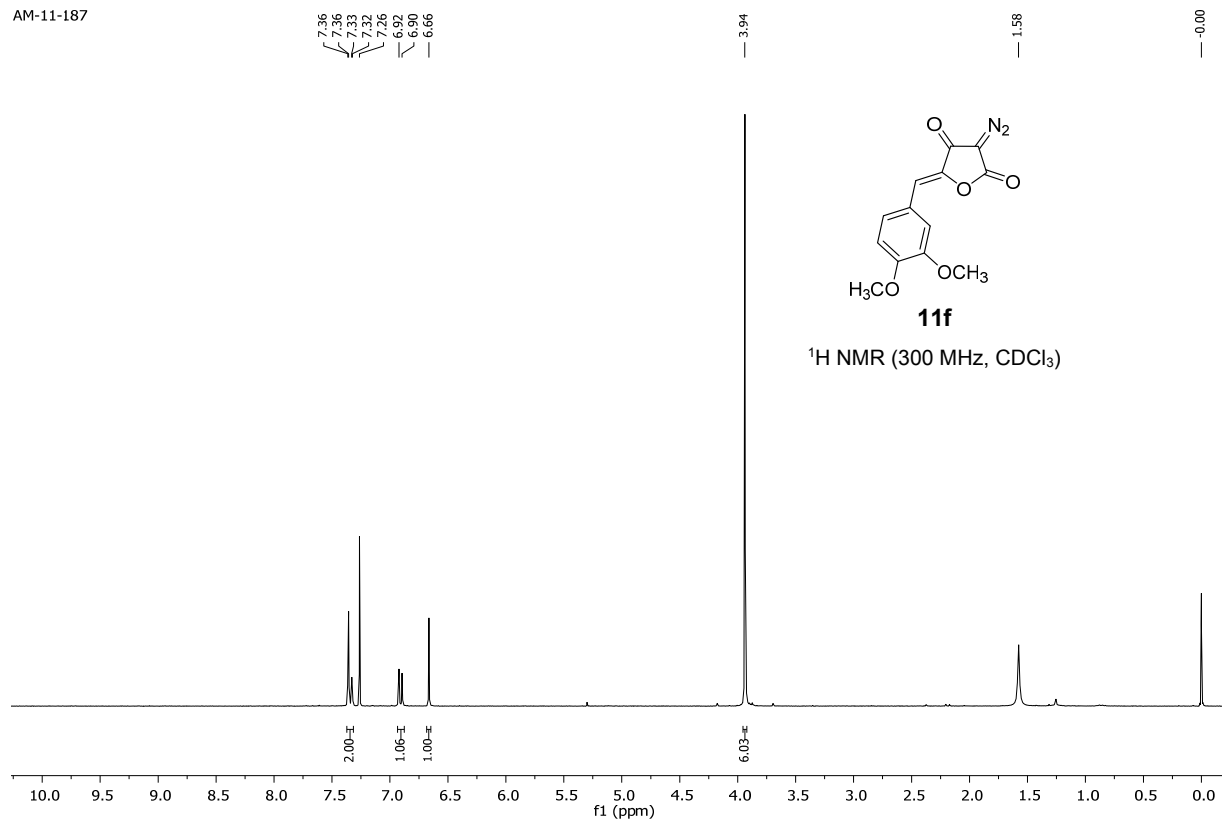
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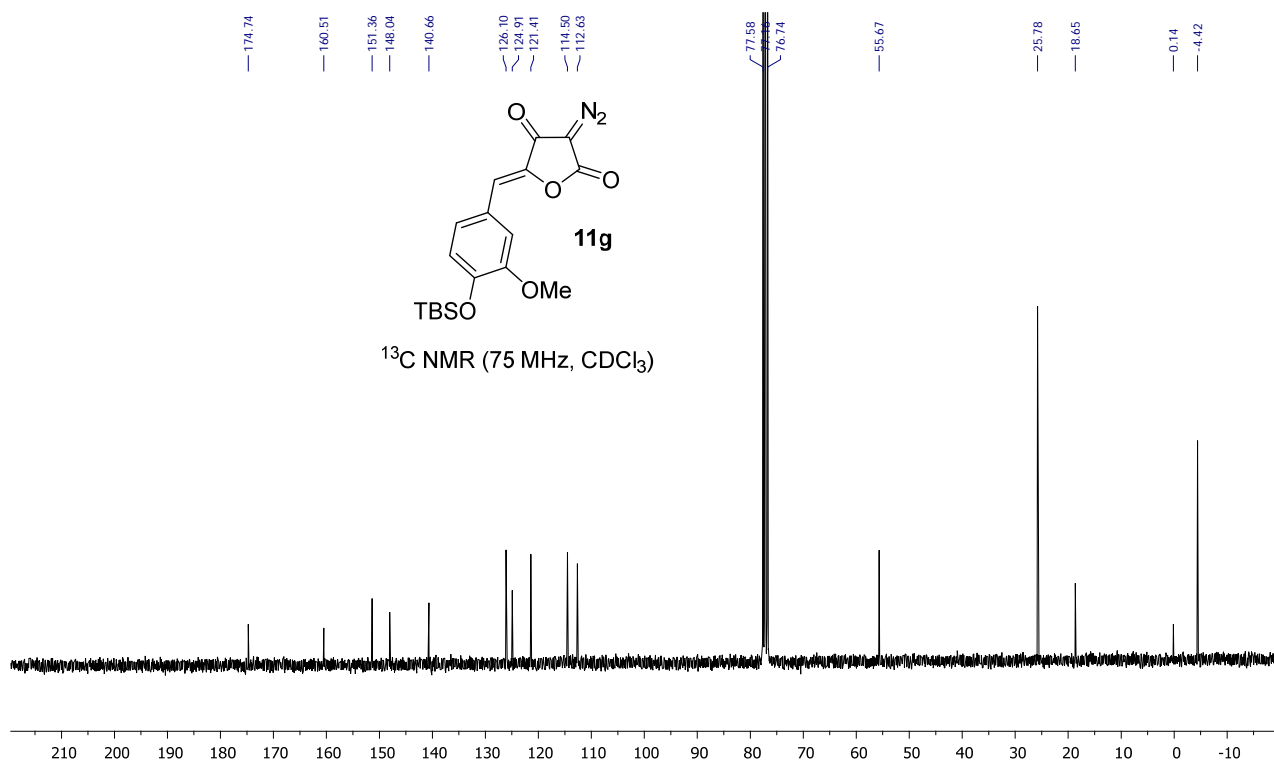
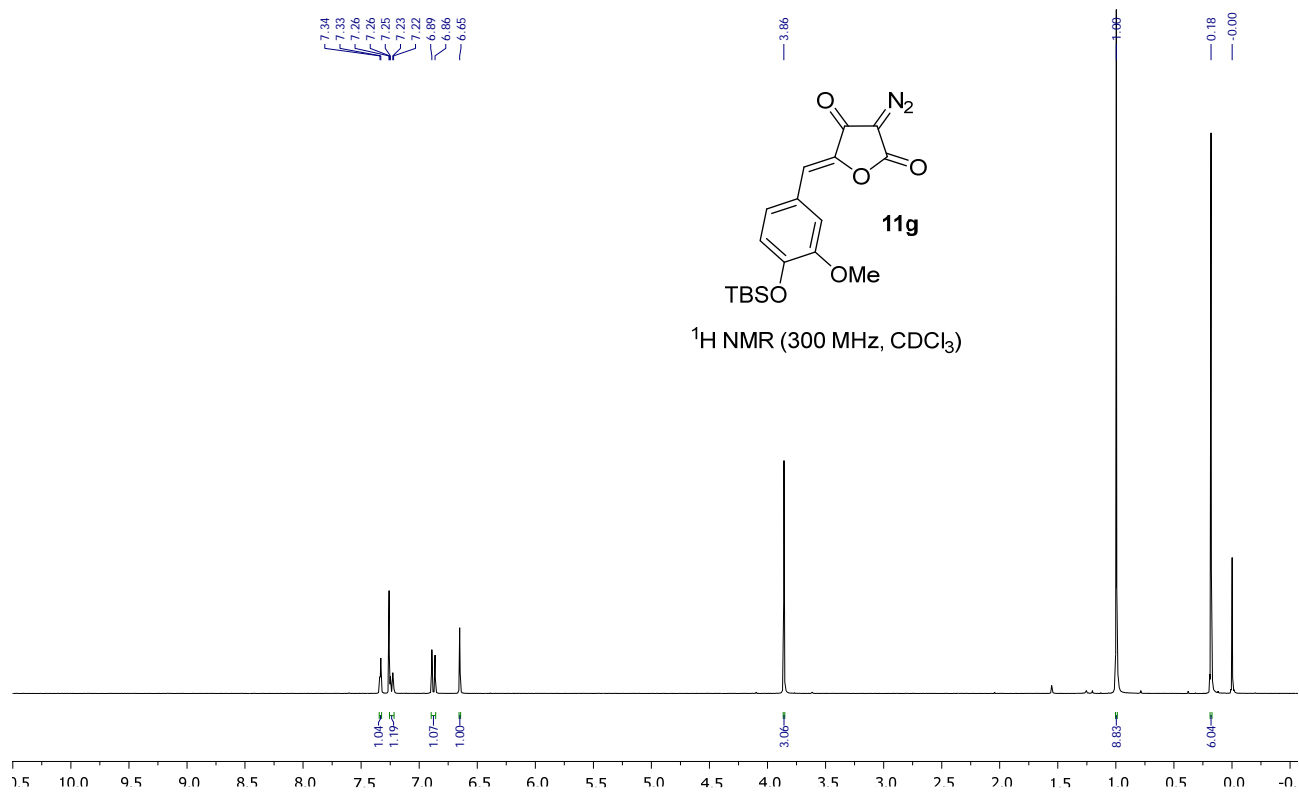


RAA-06-095.1.fid

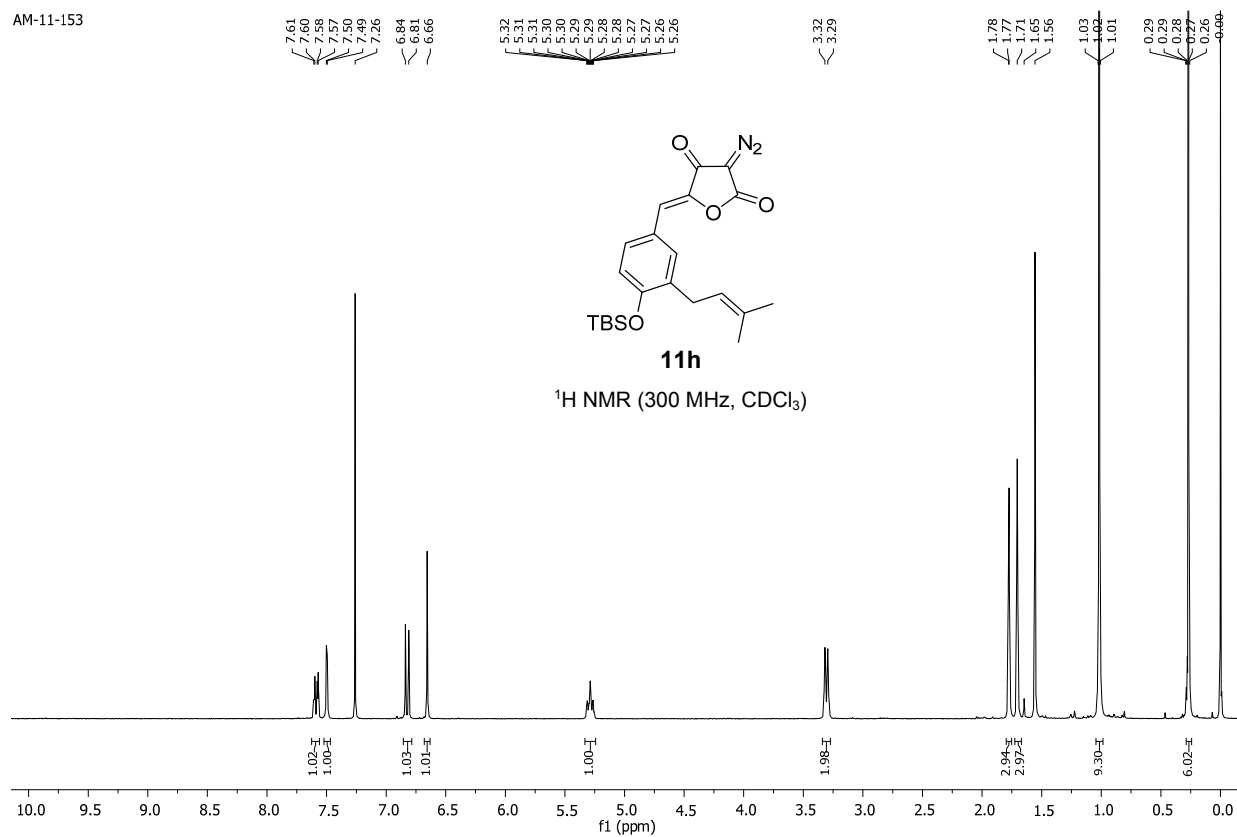


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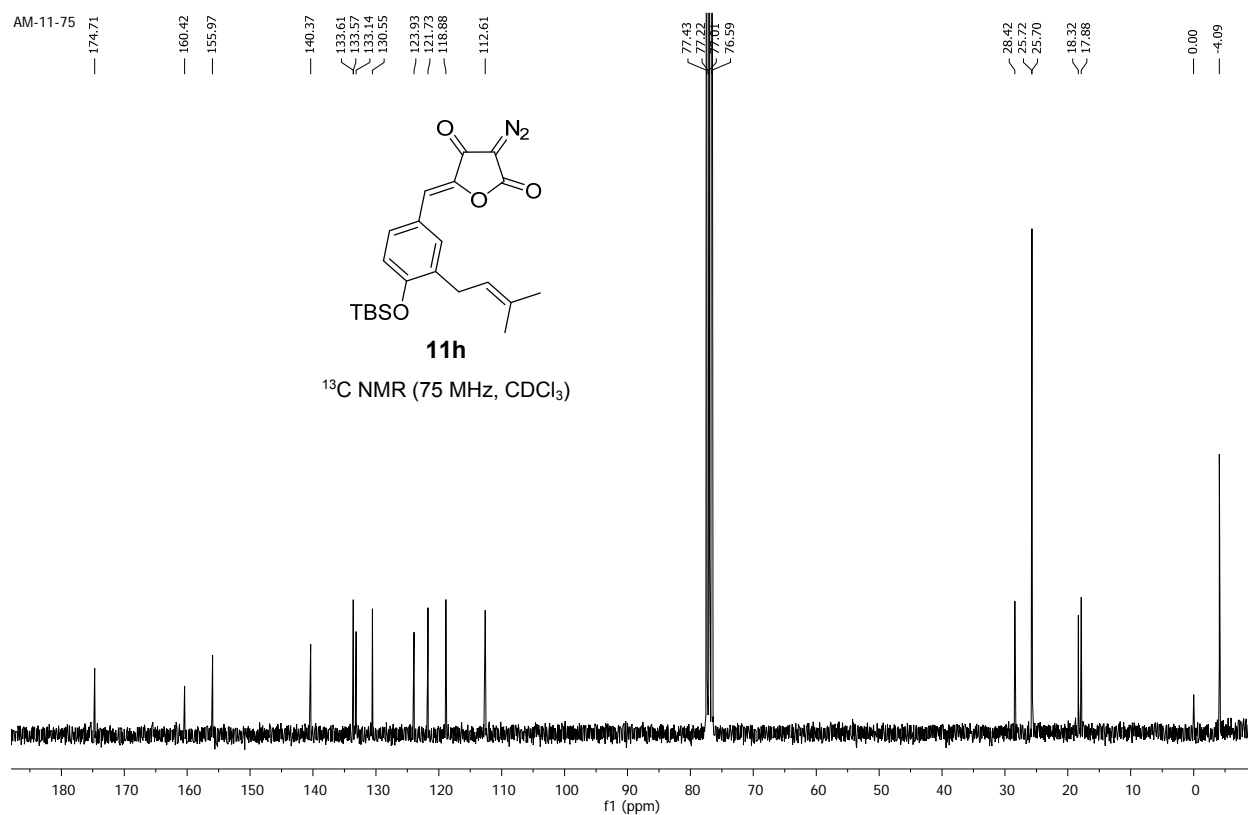




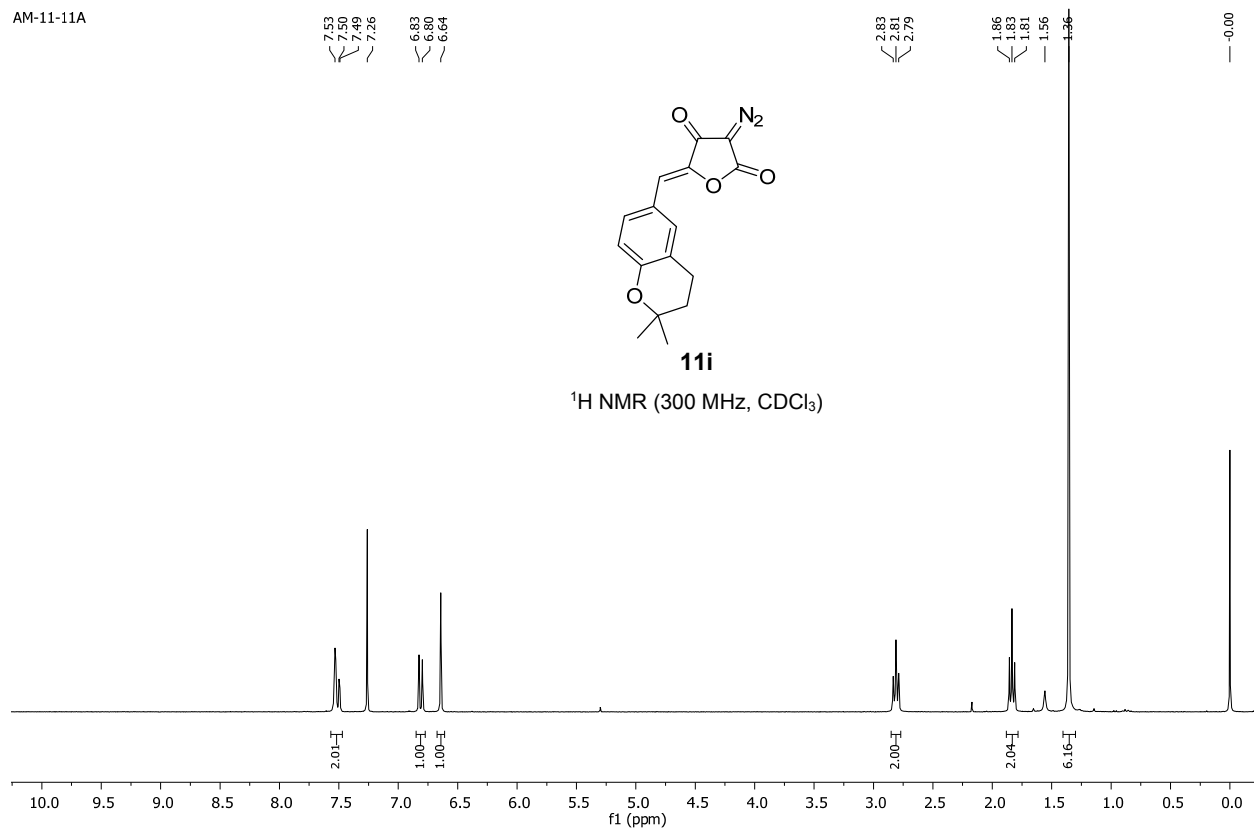
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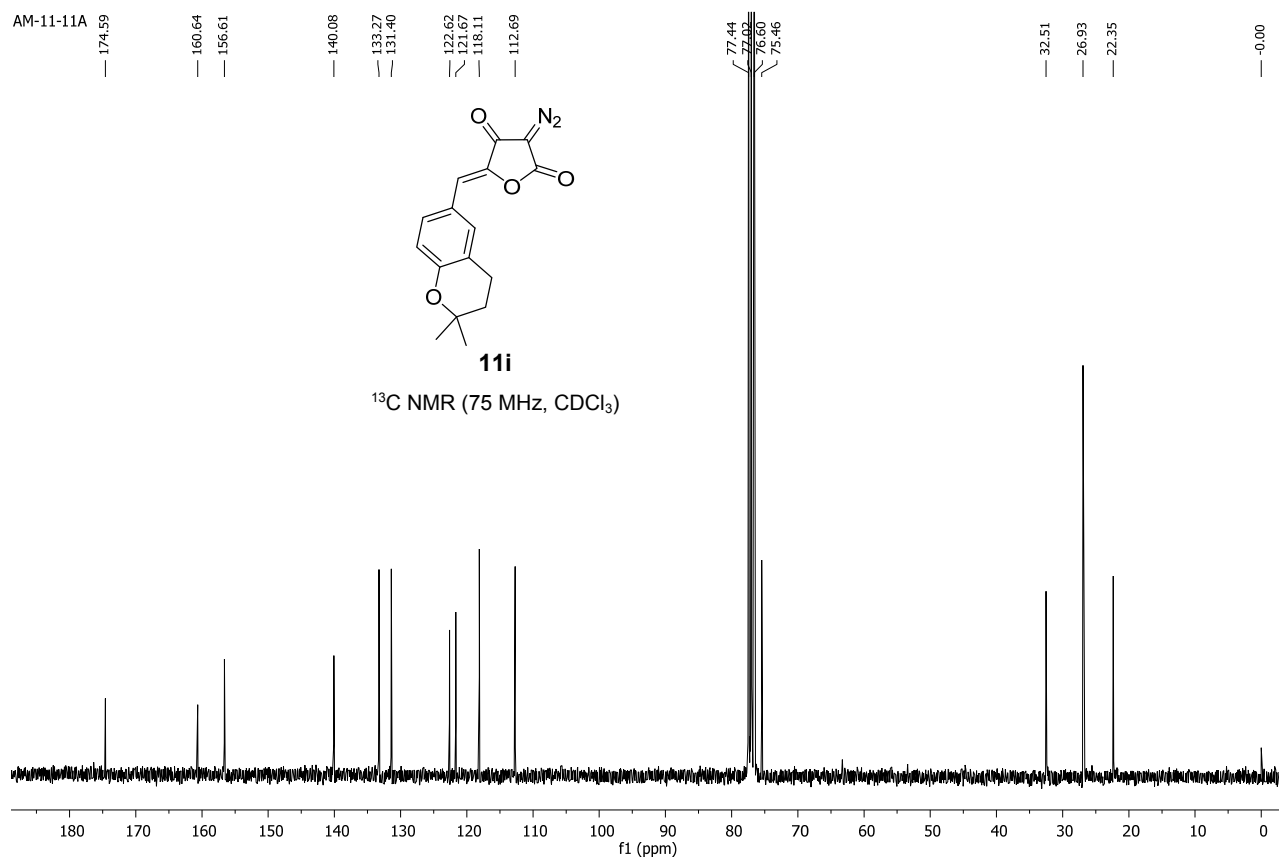
AM-11-75



AM-11-11A



AM-11-11A

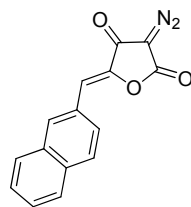


AM-11-117

8.22
8.21
7.92
7.91
7.90
7.89
7.88
7.87
7.86
7.85
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7.83
7.82
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7.56
7.55
7.54
7.53
7.52
7.26
6.86

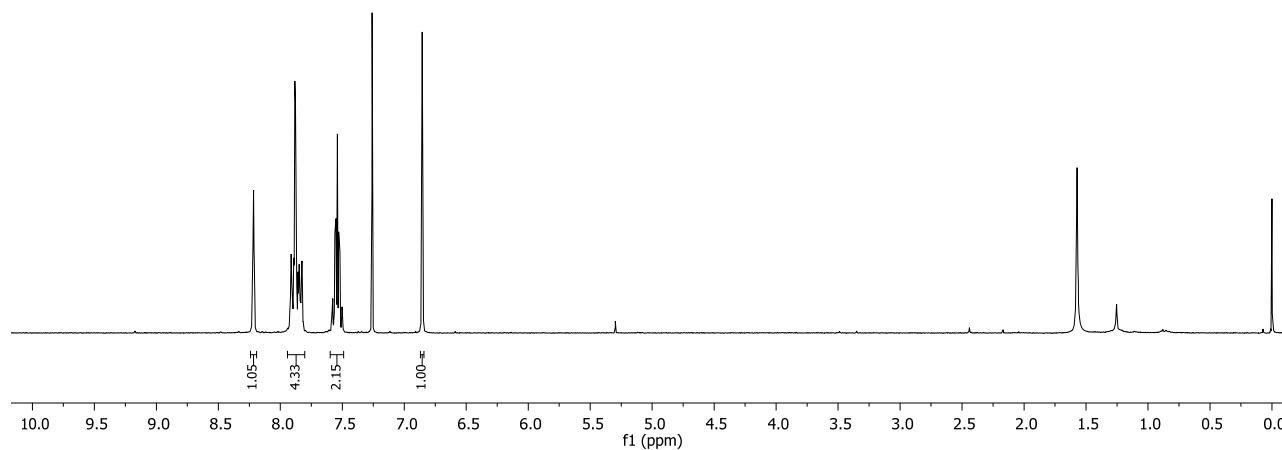
1.57

-0.00



11j

¹H NMR (300 MHz, CDCl₃)



AM-11-117

174.74

160.41

142.22

134.02

133.31

132.61

128.96

138.69

127.98

127.88

127.44

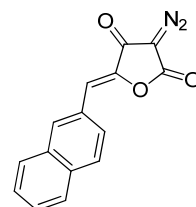
126.94

112.22

77.58

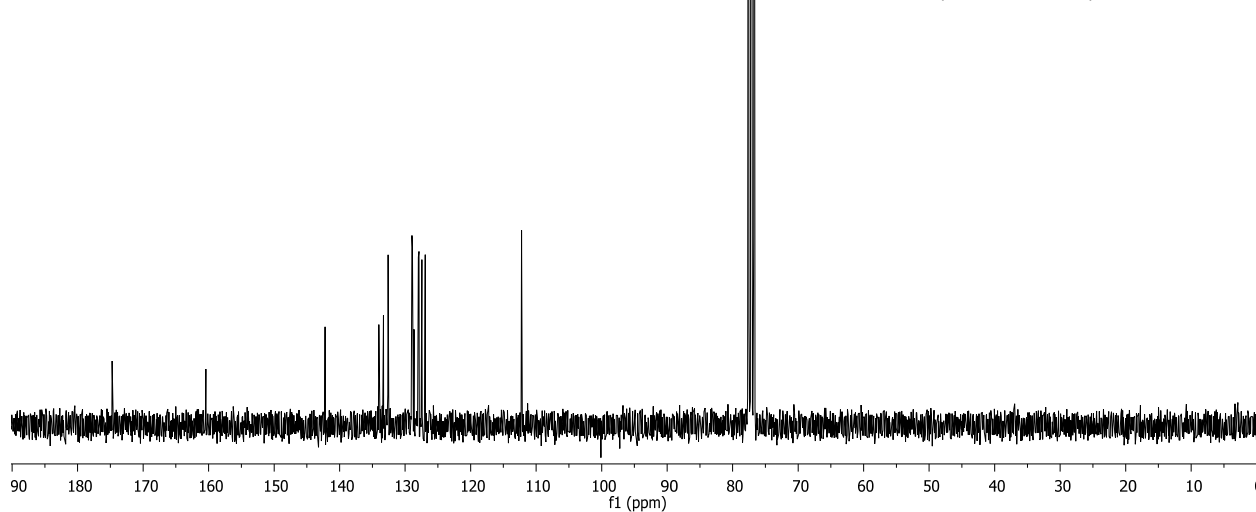
77.46

76.74



11j

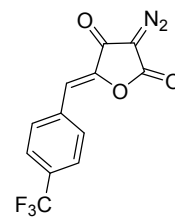
¹³C NMR (75 MHz, CDCl₃)



AM-11-135

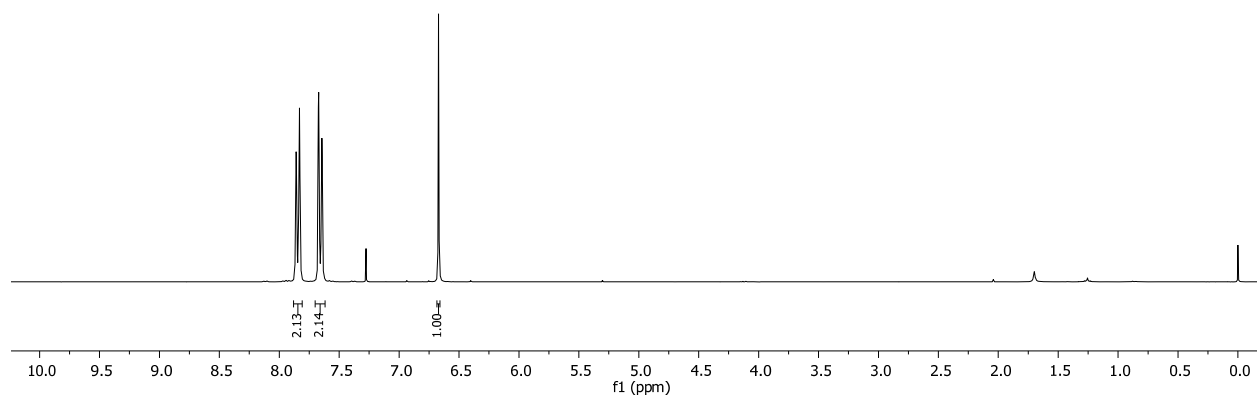
7.86
7.86
7.85
7.83
7.67
7.67
7.64
7.28
6.67

0.00



11k

¹H NMR (300 MHz, CDCl₃)

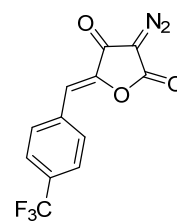


AM-11-135

174.36
159.76
143.35
134.33
134.33
132.71
132.71
131.78
131.34
130.91
129.15
125.93
125.88
125.83
125.59
125.59
121.93
118.32
109.47

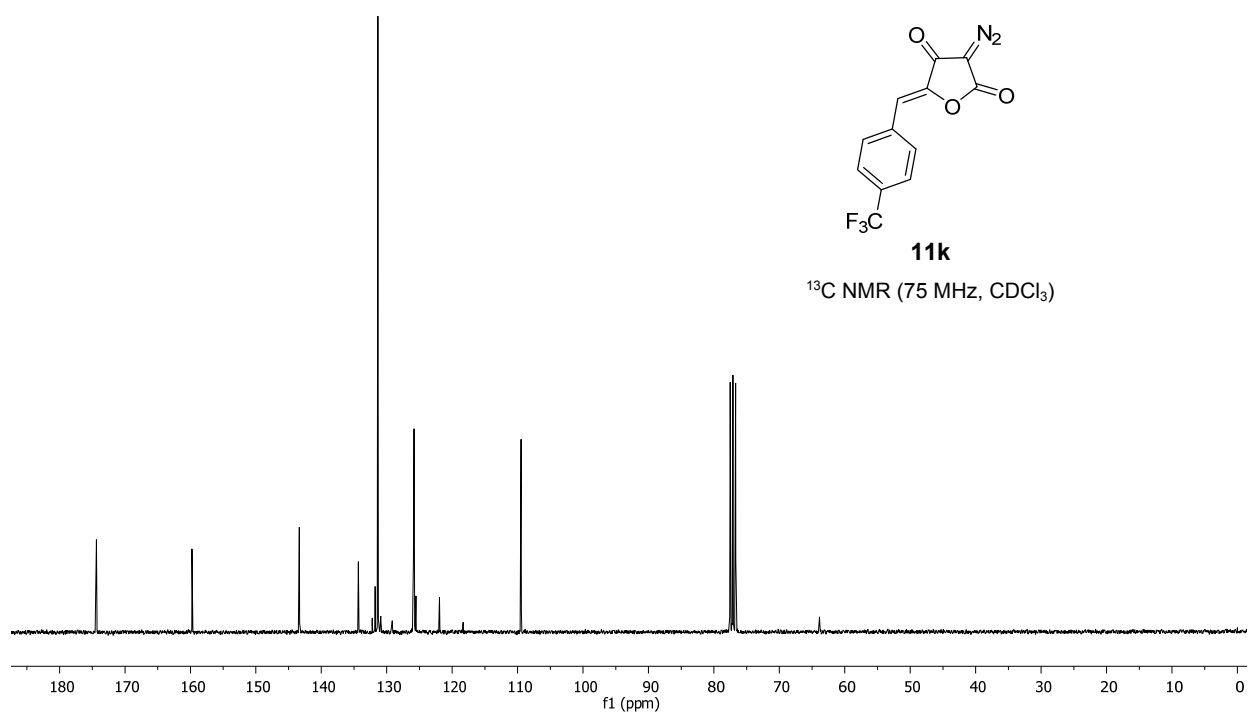
77.52
77.52
76.67

0.00



11k

¹³C NMR (75 MHz, CDCl₃)

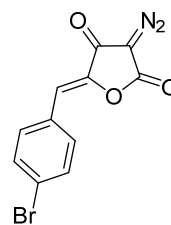


AM-11-143

7.64
7.63
7.62
7.61
7.57
7.56
7.55
7.54
7.26

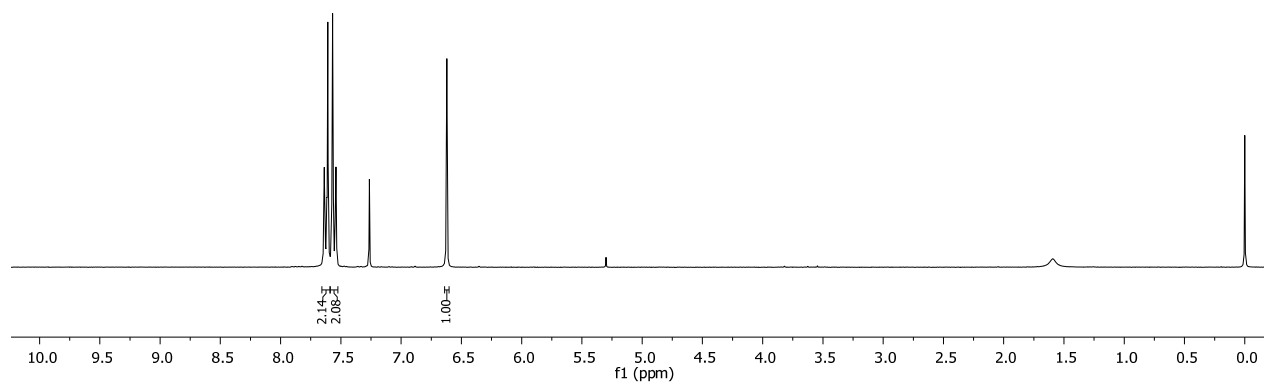
6.62

-0.00



11I

¹H NMR (300 MHz, CDCl₃)



AM-11-1433

174.43

159.93

142.31

132.65

132.30

129.83

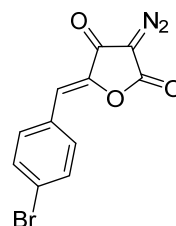
124.99

110.40

77.46

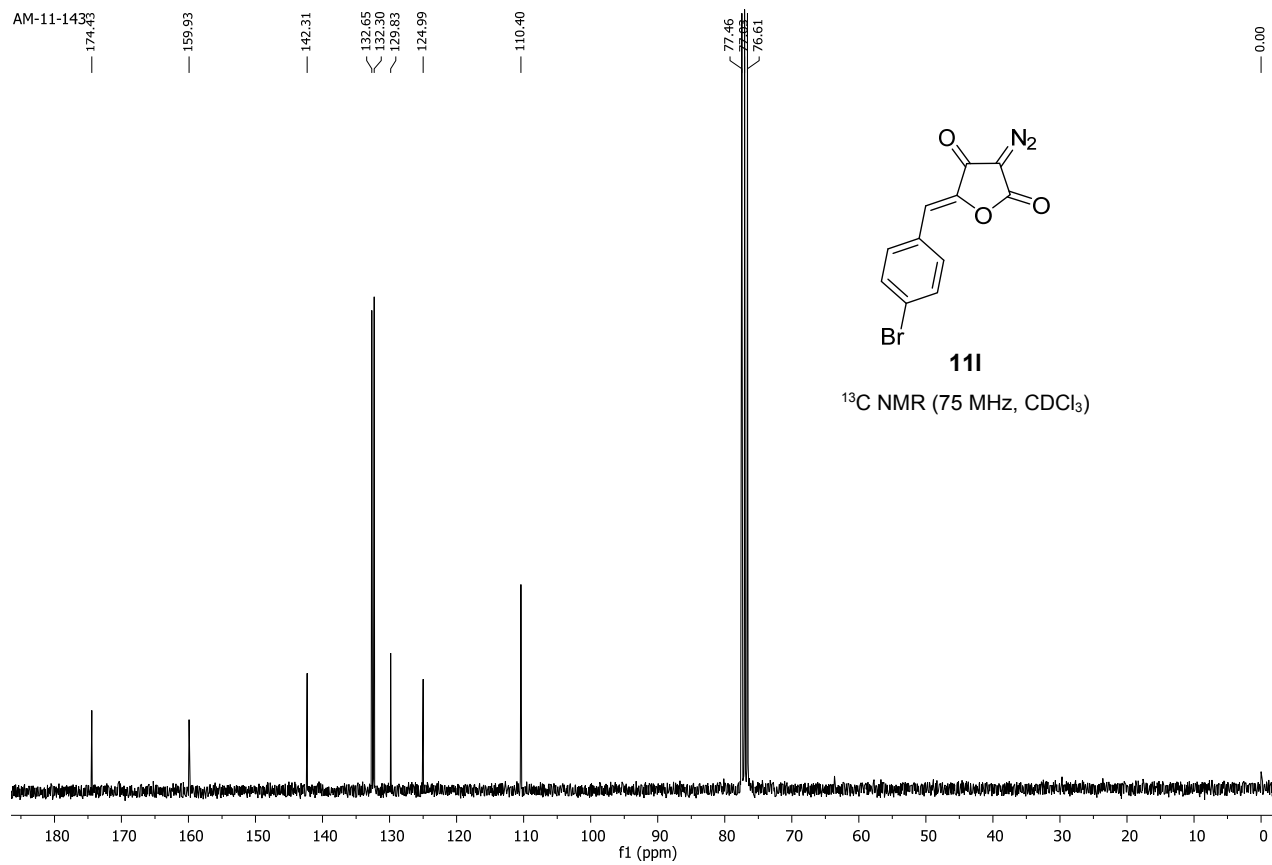
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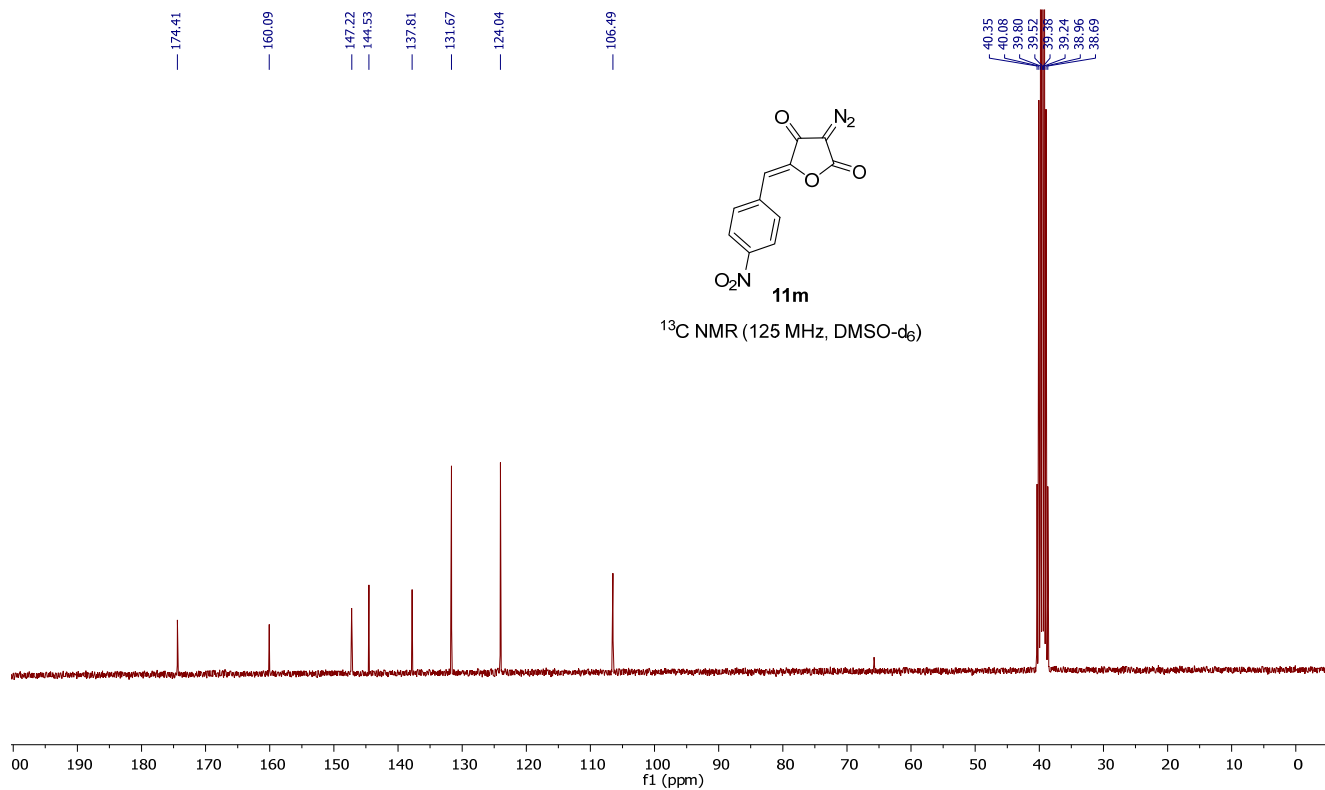
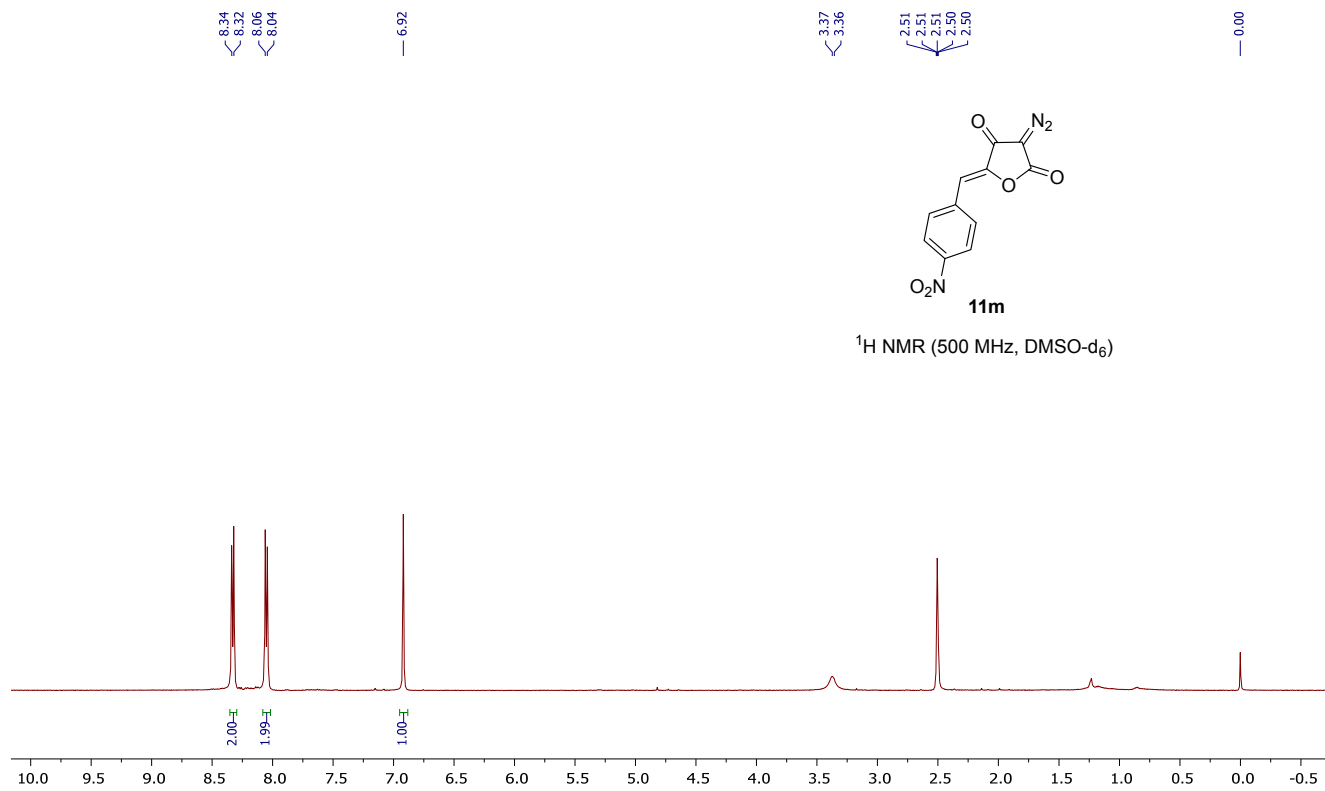
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11I

¹³C NMR (75 MHz, CDCl₃)

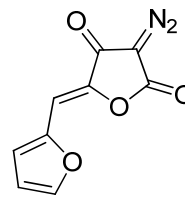




AM-11-141

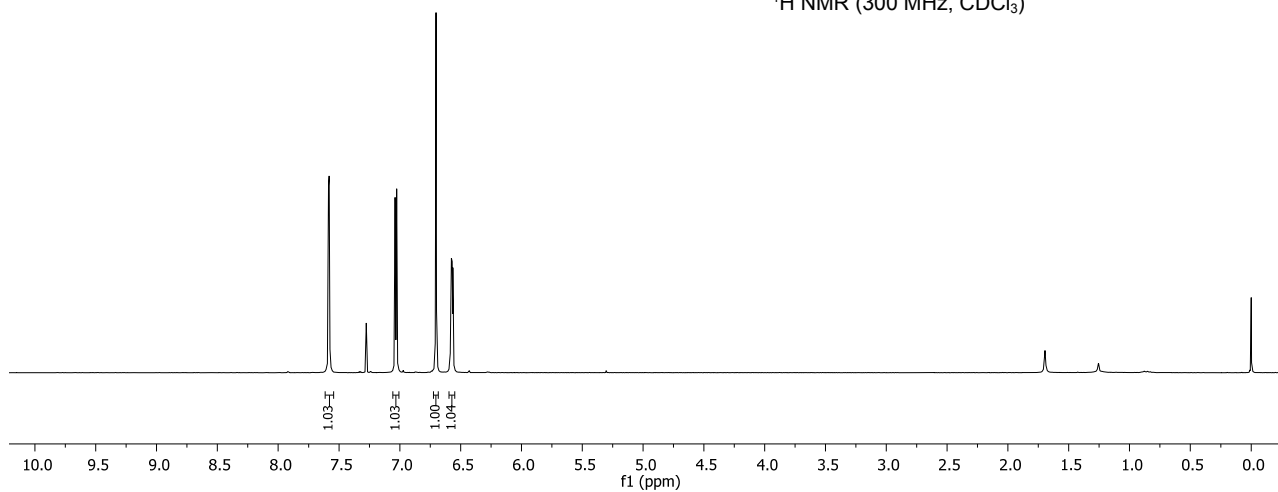
7.59
7.58
7.58
7.57
7.28
7.04
7.04
7.03
7.02
6.70
6.70
6.58
6.58
6.58
6.57
6.57
6.56
6.56

0.00



11n

¹H NMR (300 MHz, CDCl₃)



AM-11-141

173.78

160.01

147.48

145.60

139.80

117.61

113.19

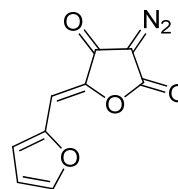
100.54

77.49

77.06

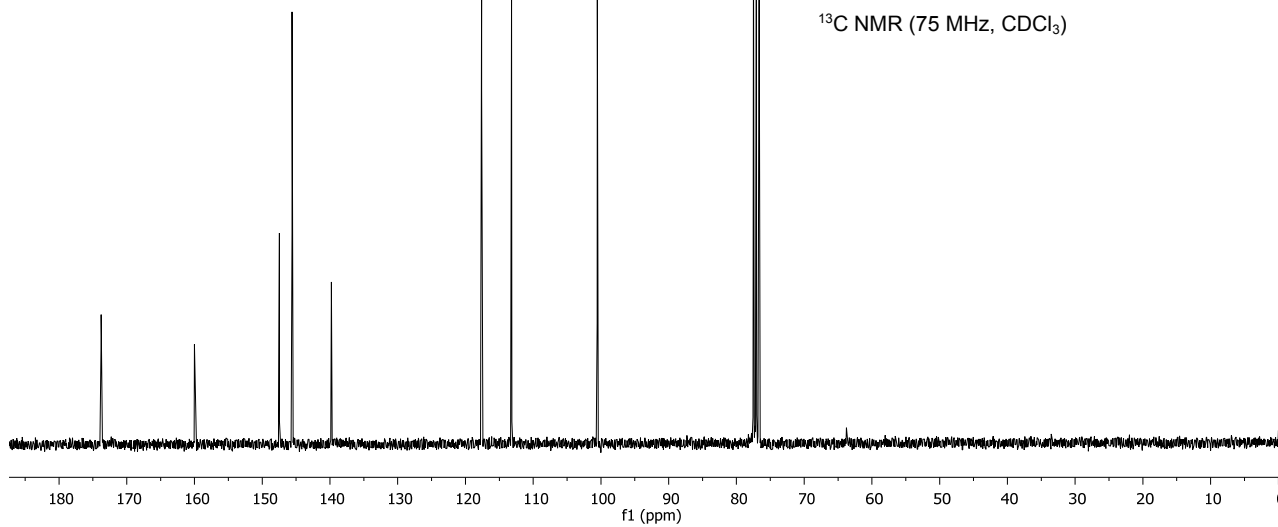
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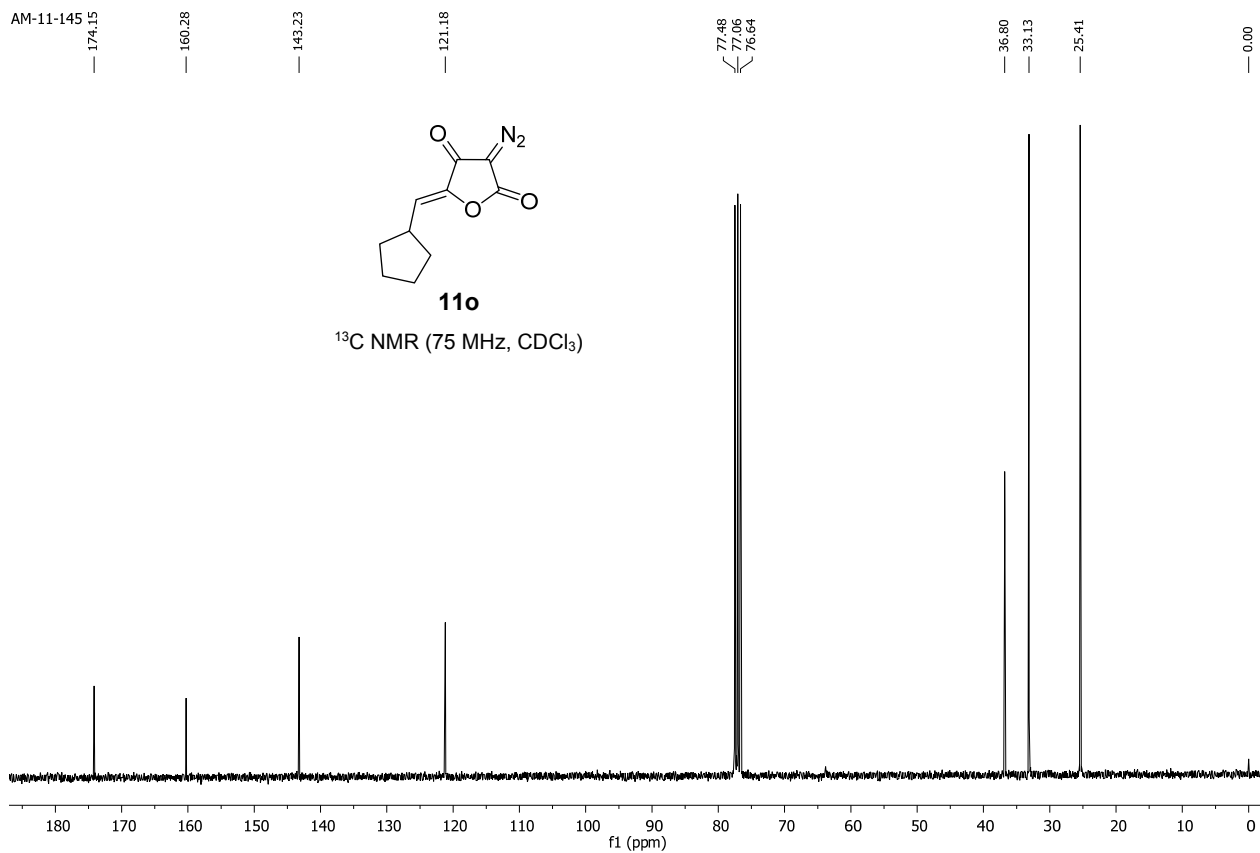
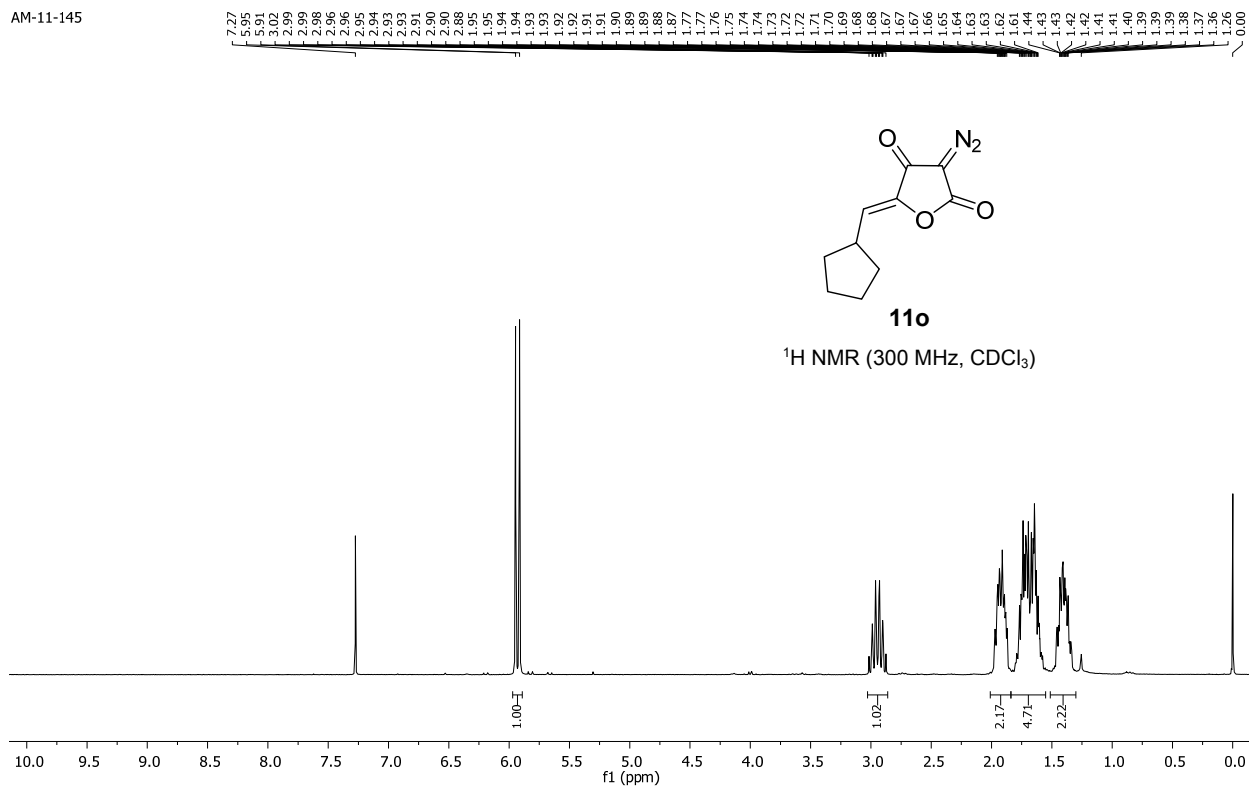


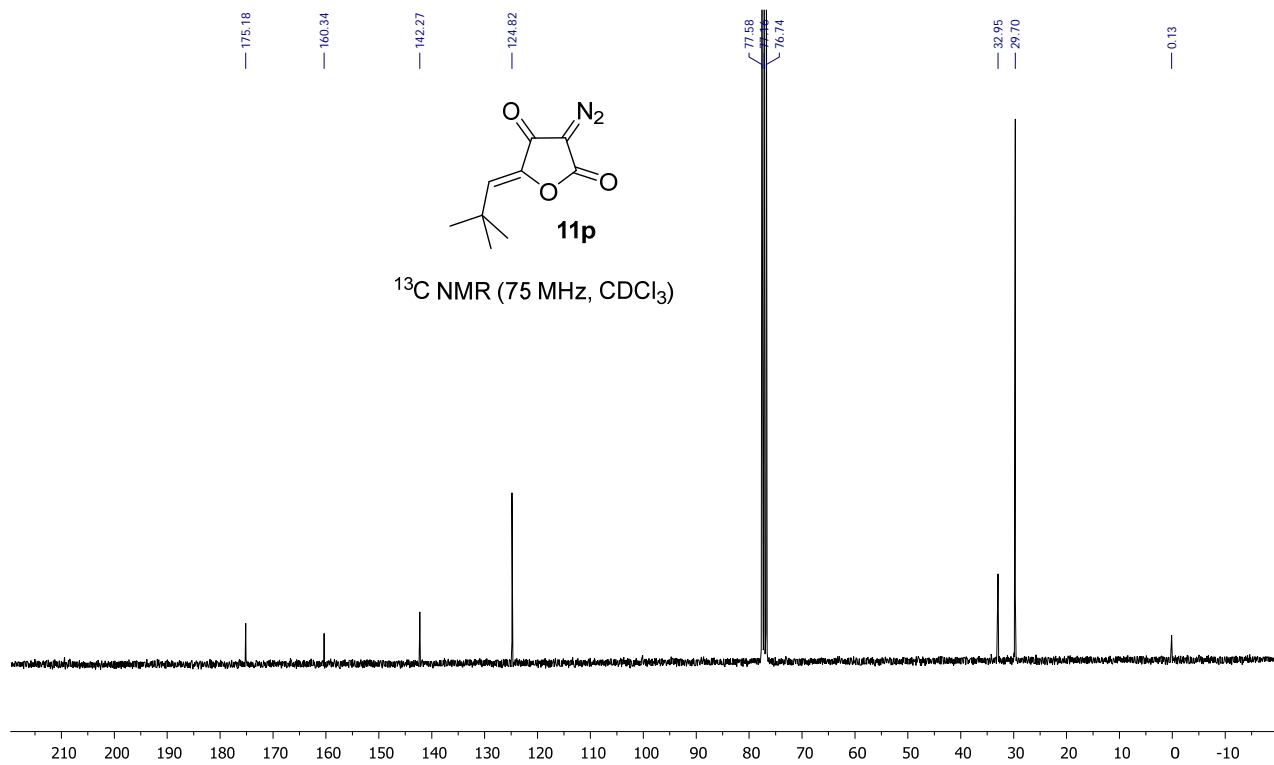
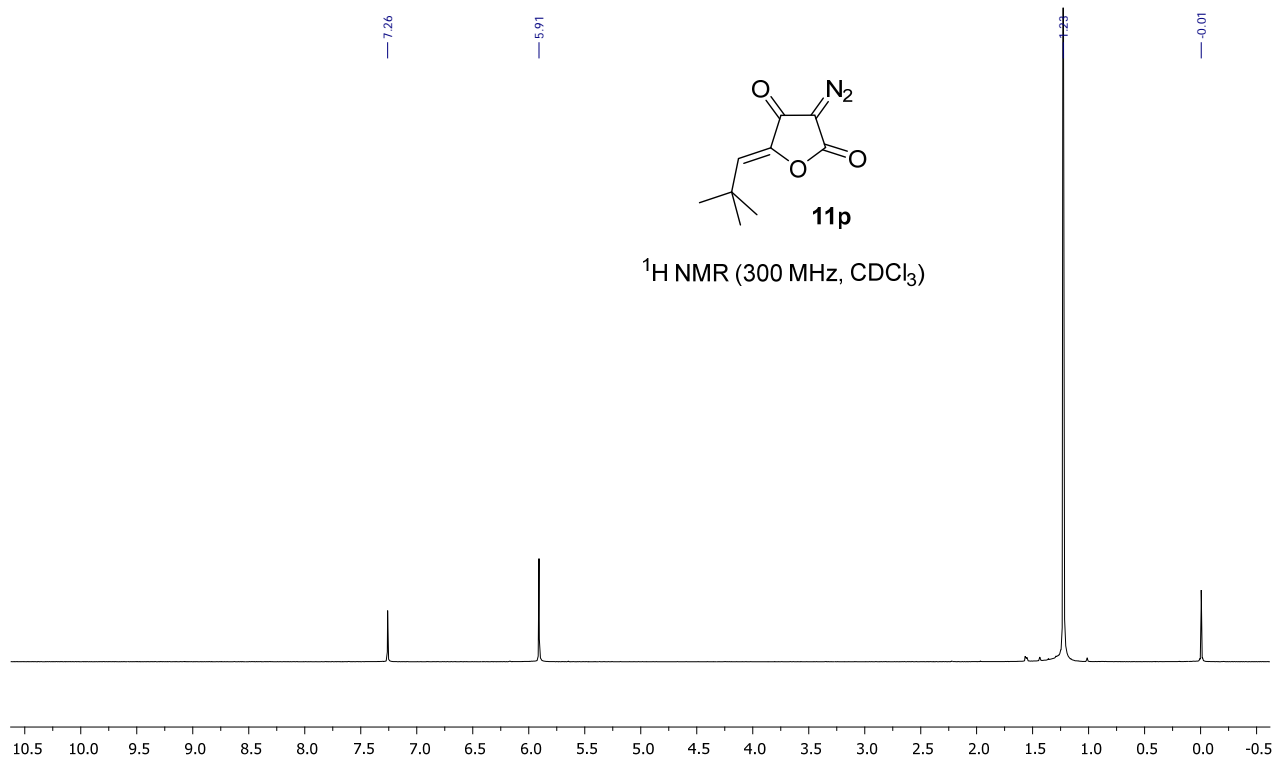
11n

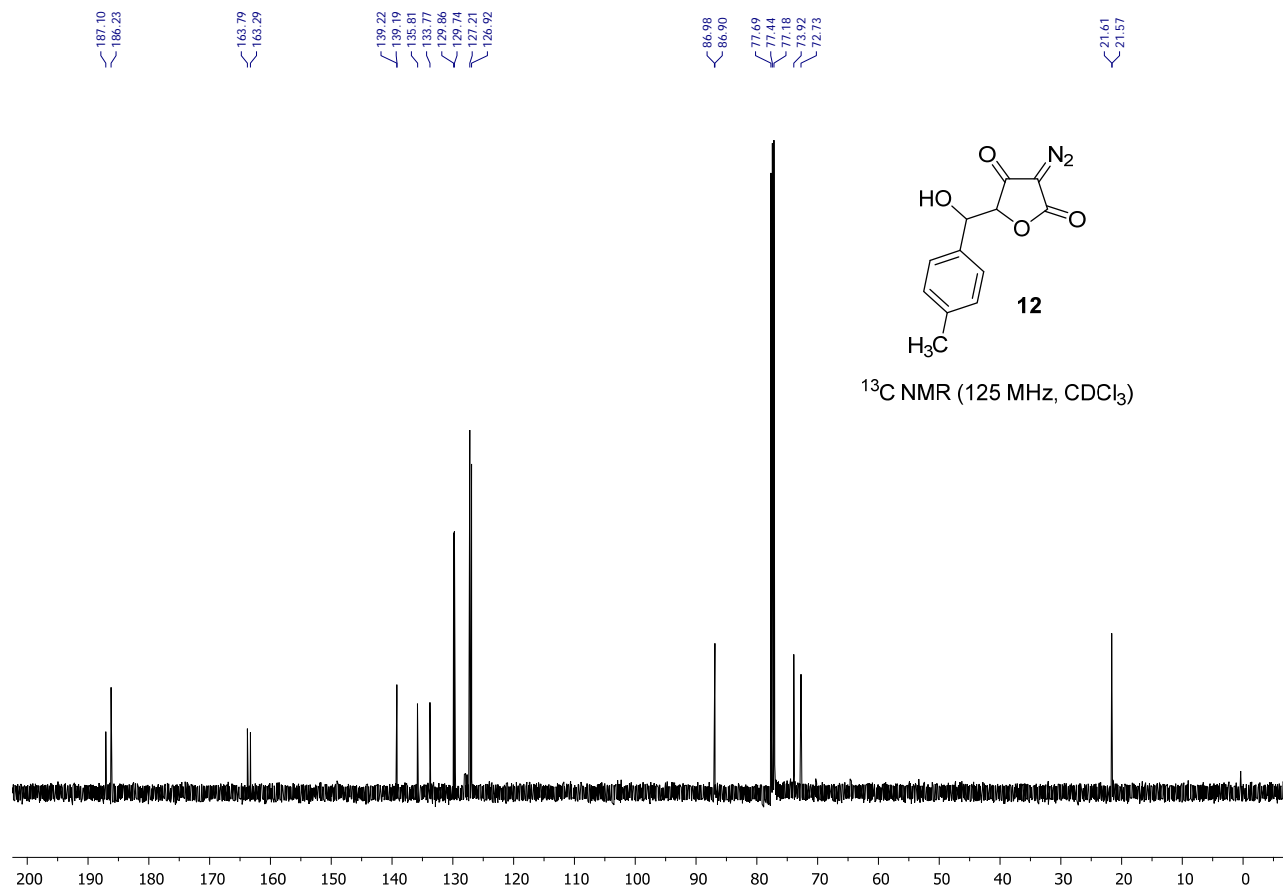
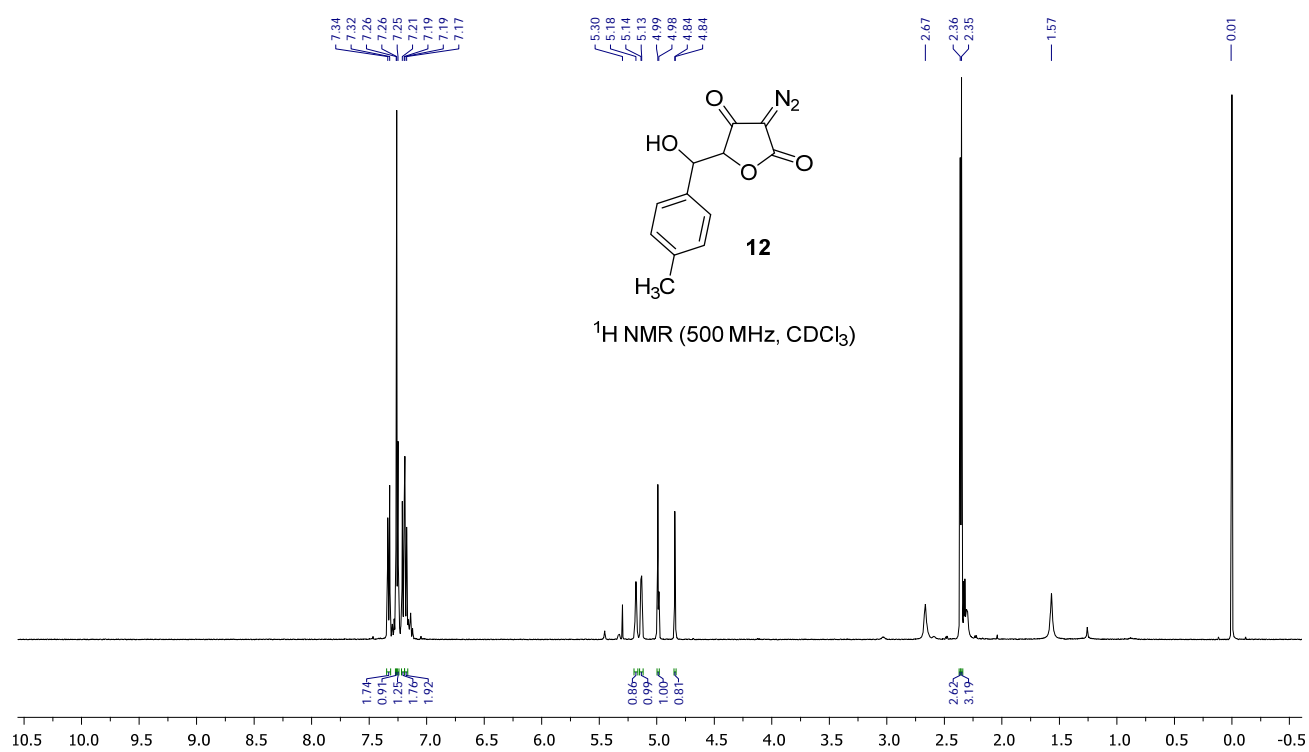
¹³C NMR (75 MHz, CDCl₃)



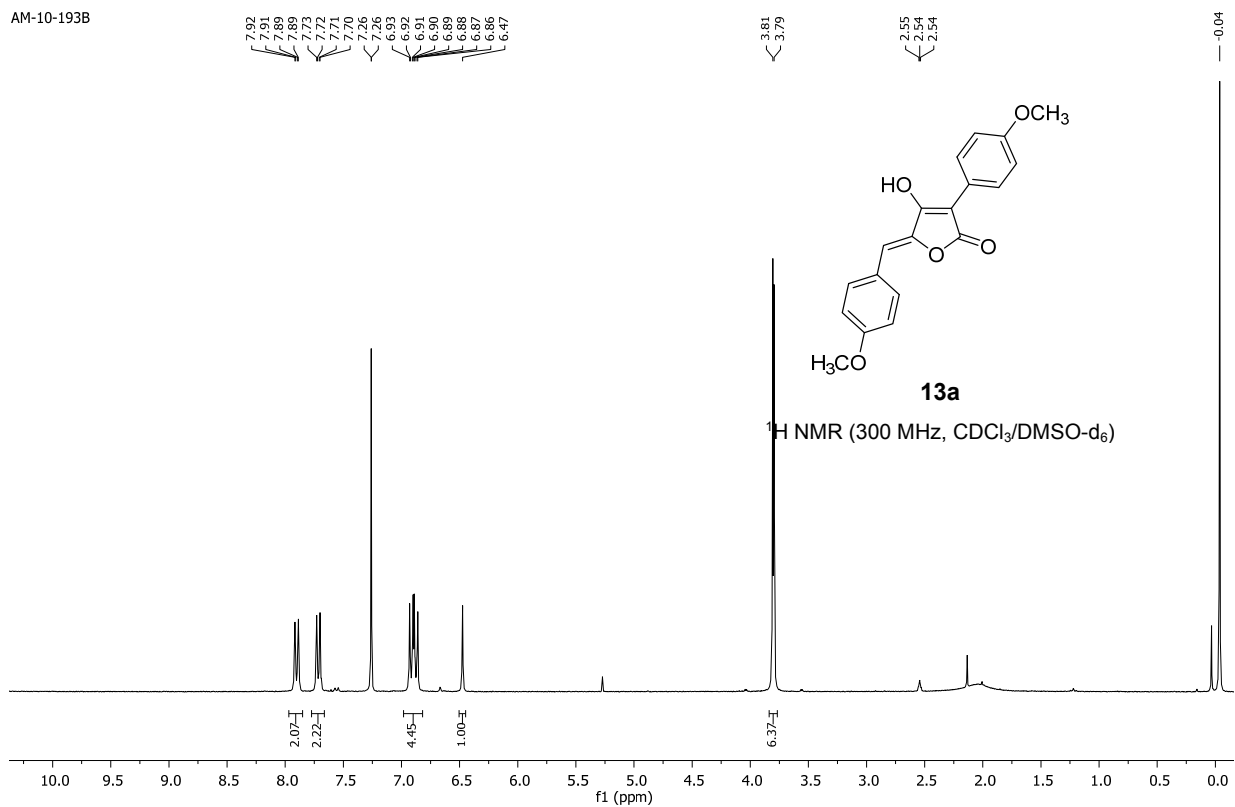
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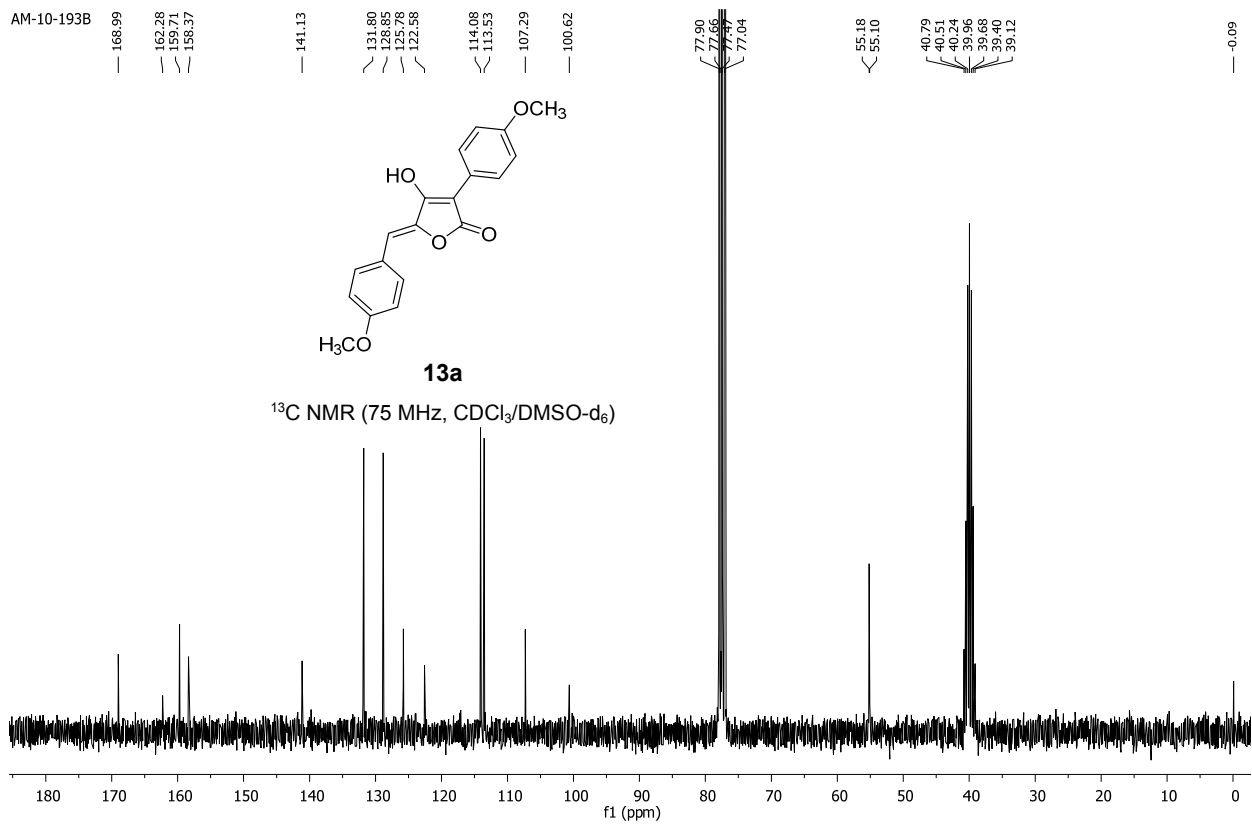




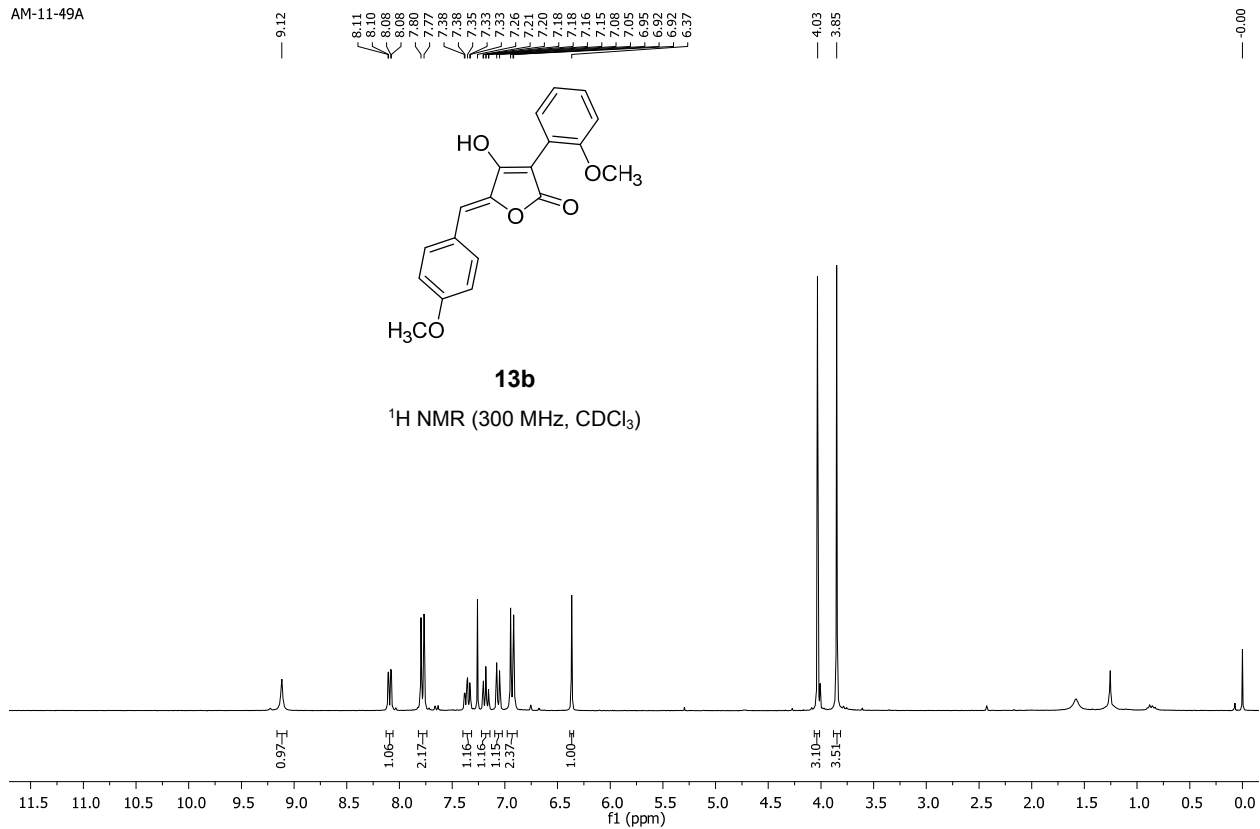
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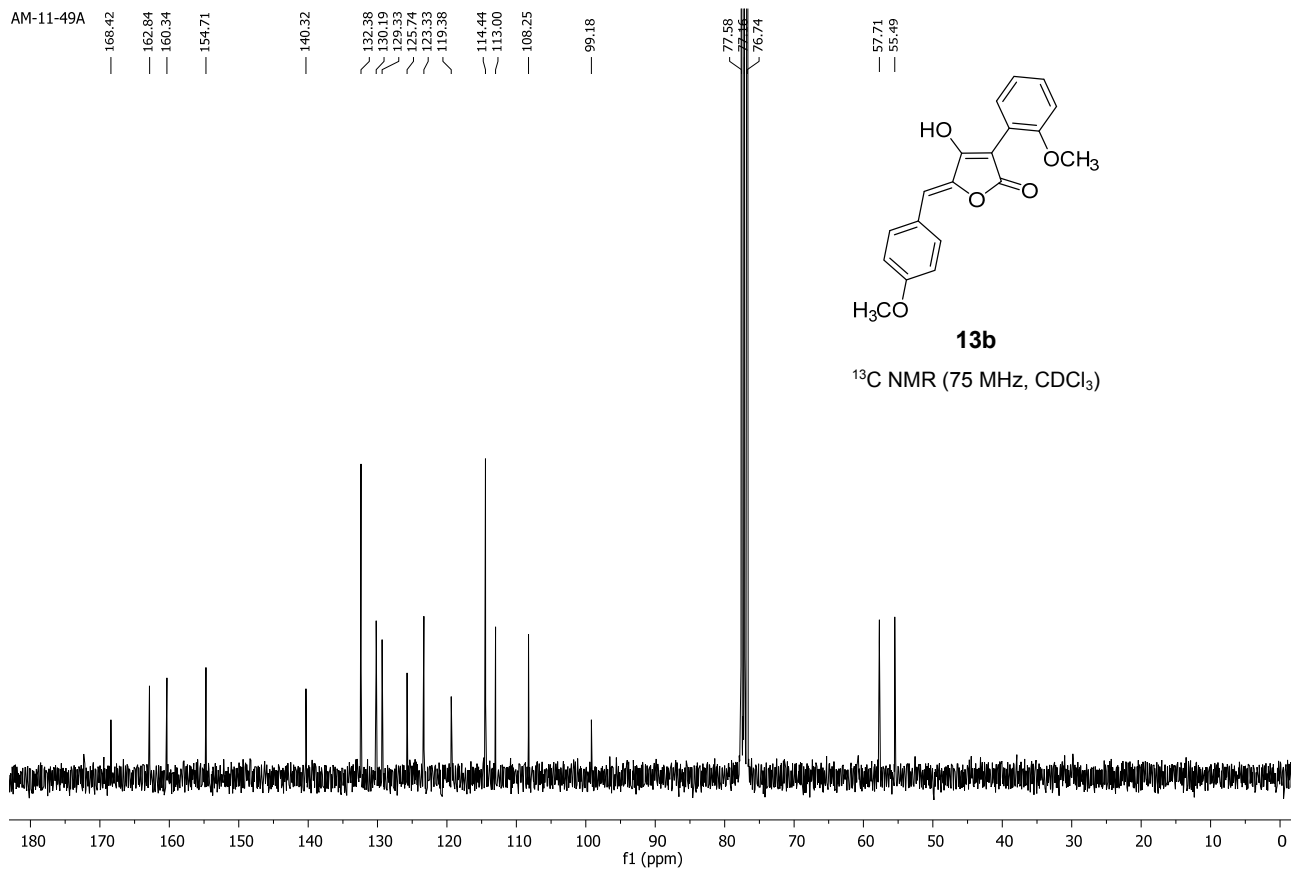
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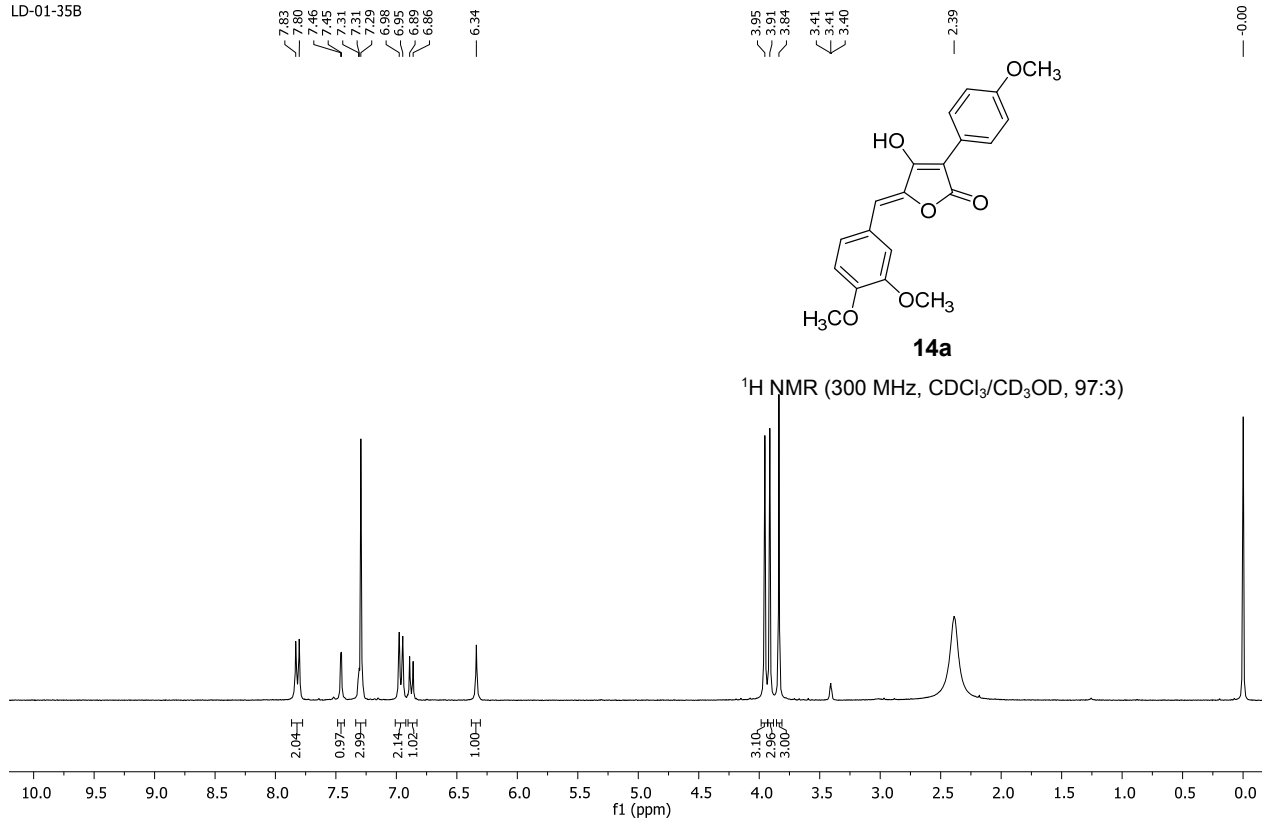
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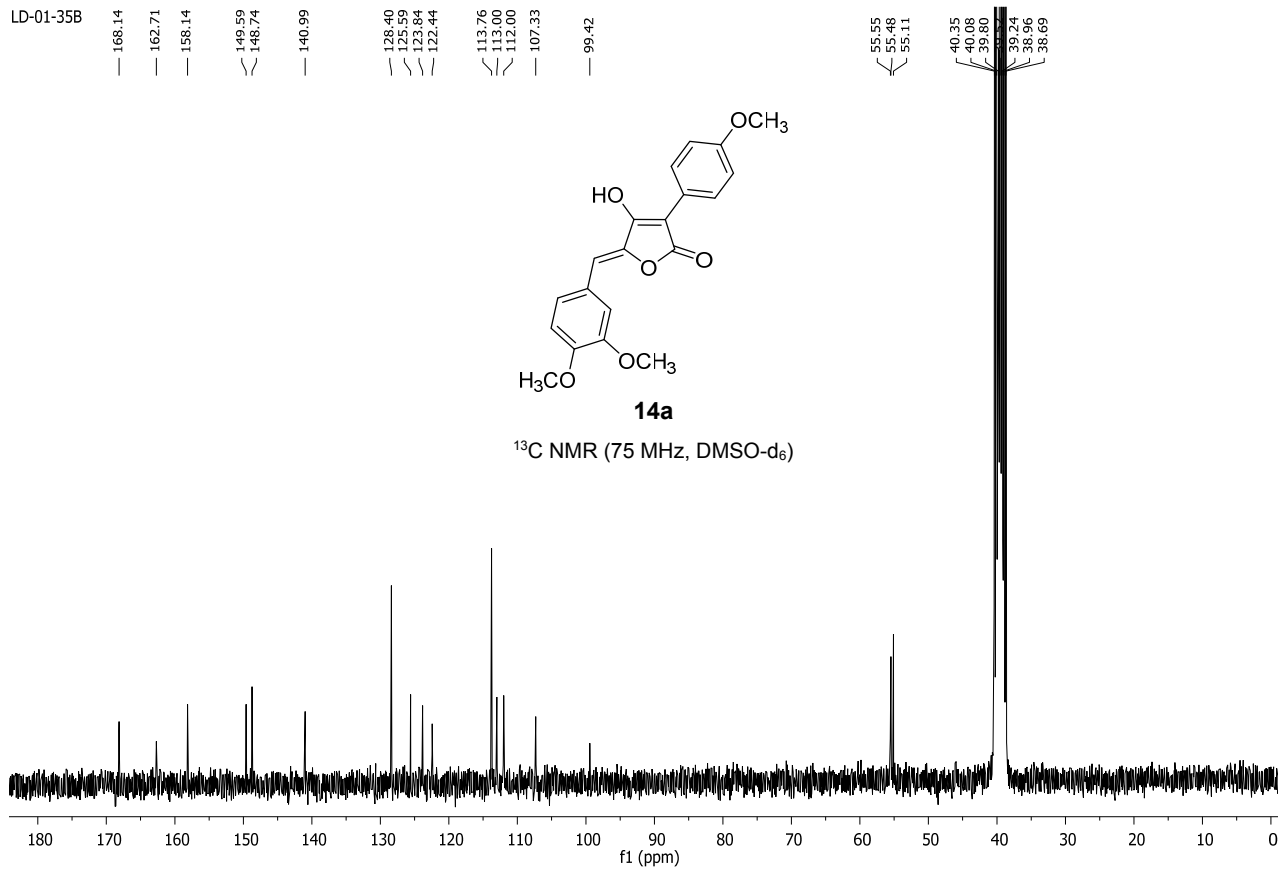
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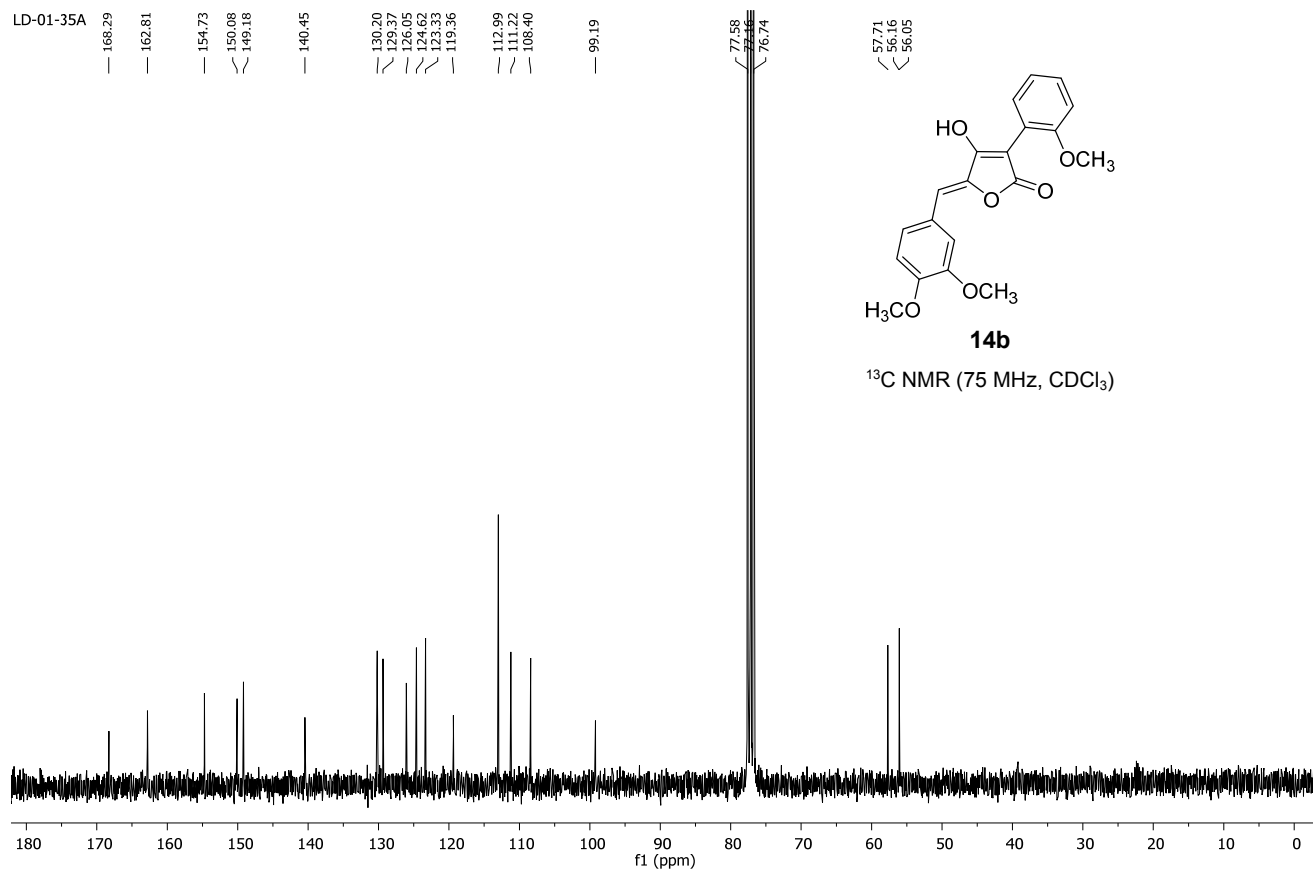
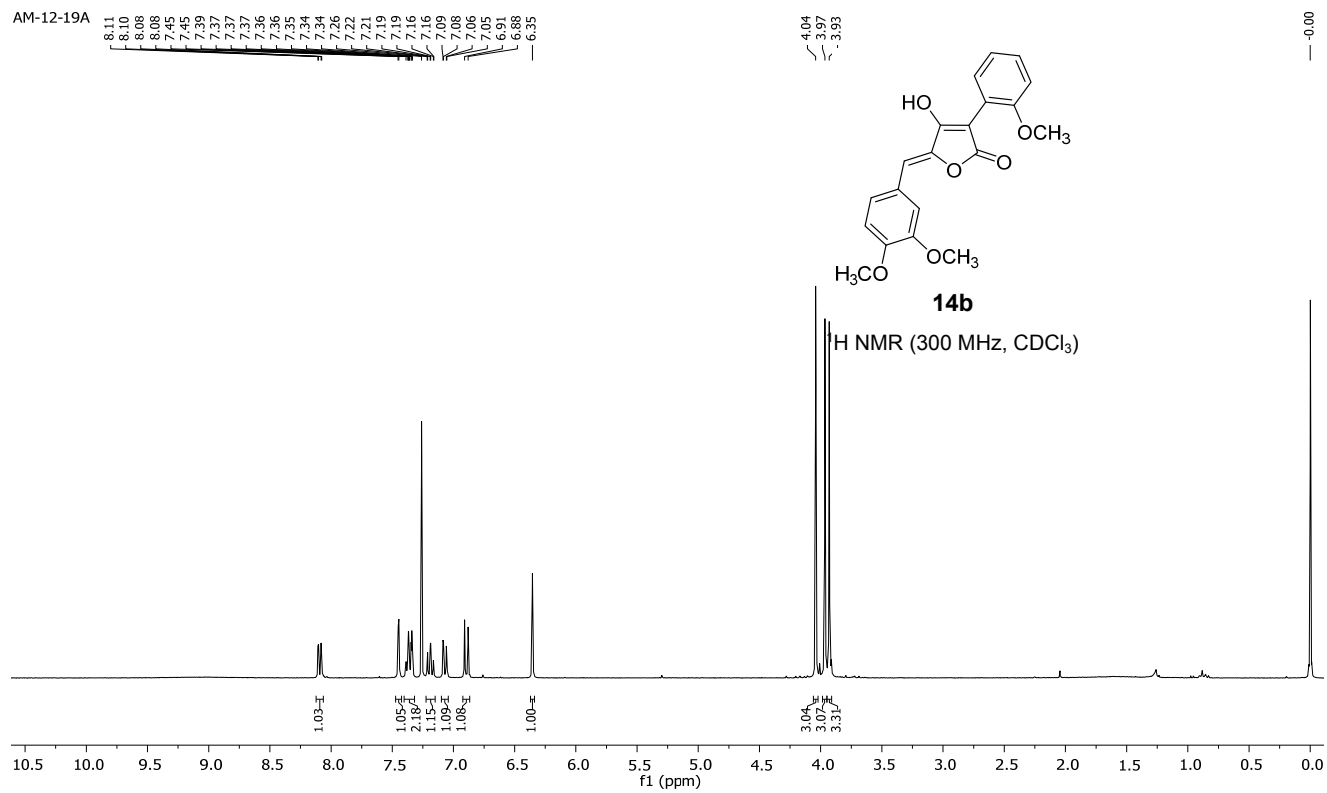


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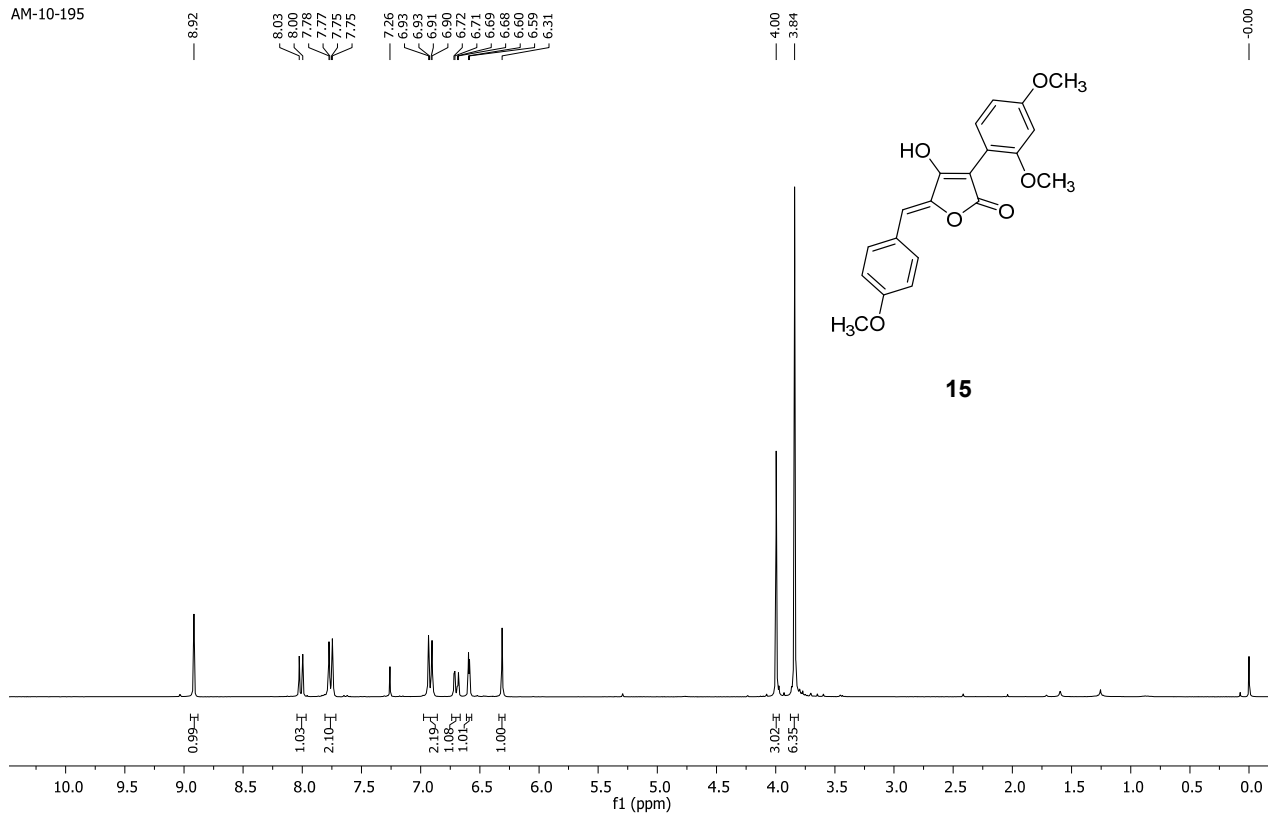


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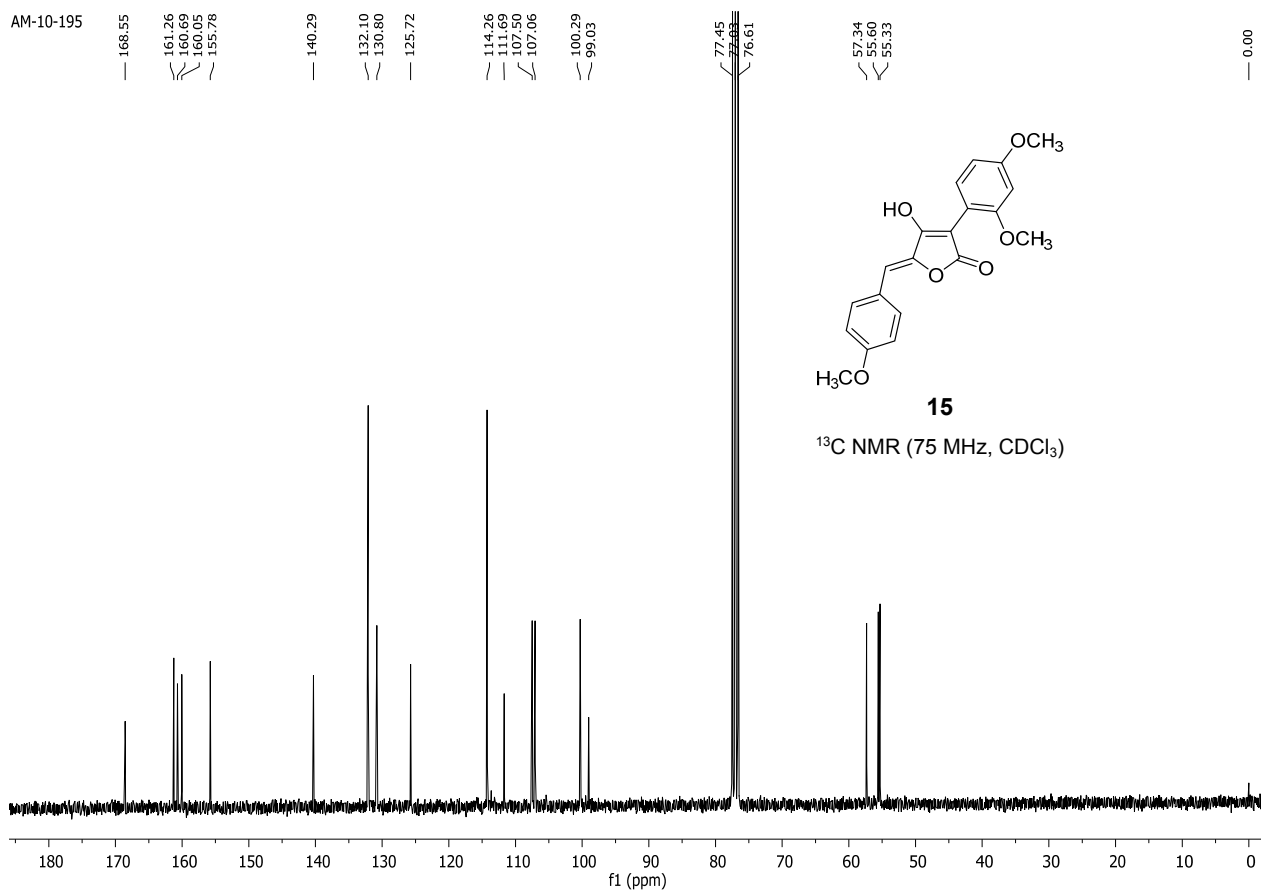




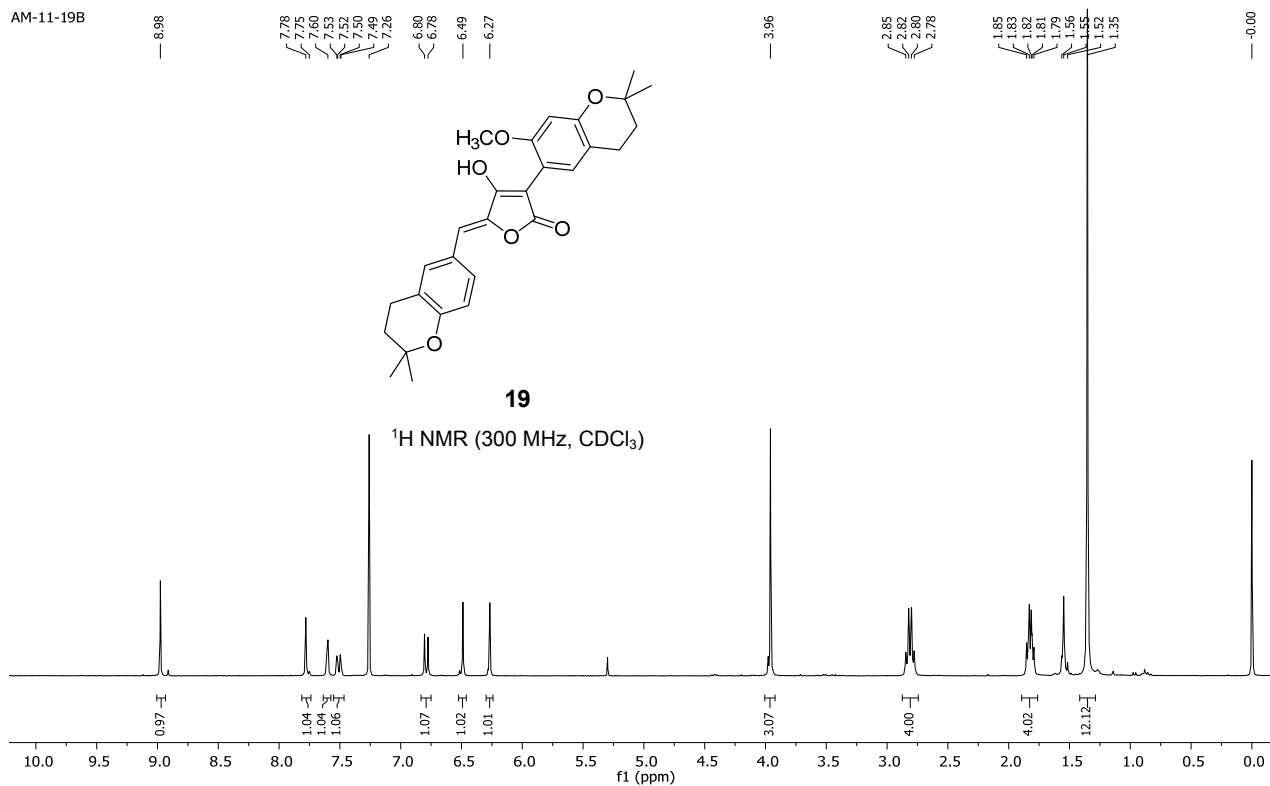
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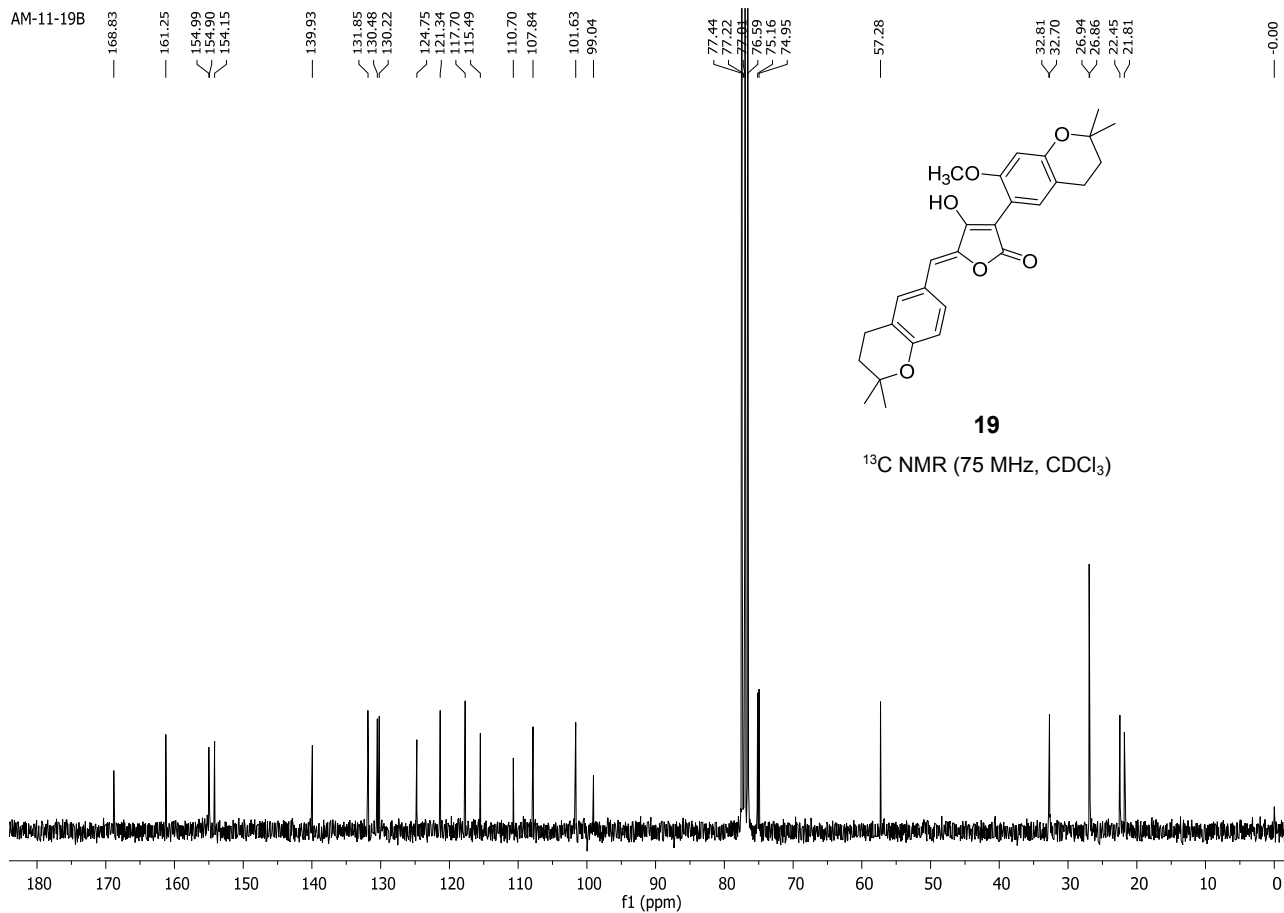
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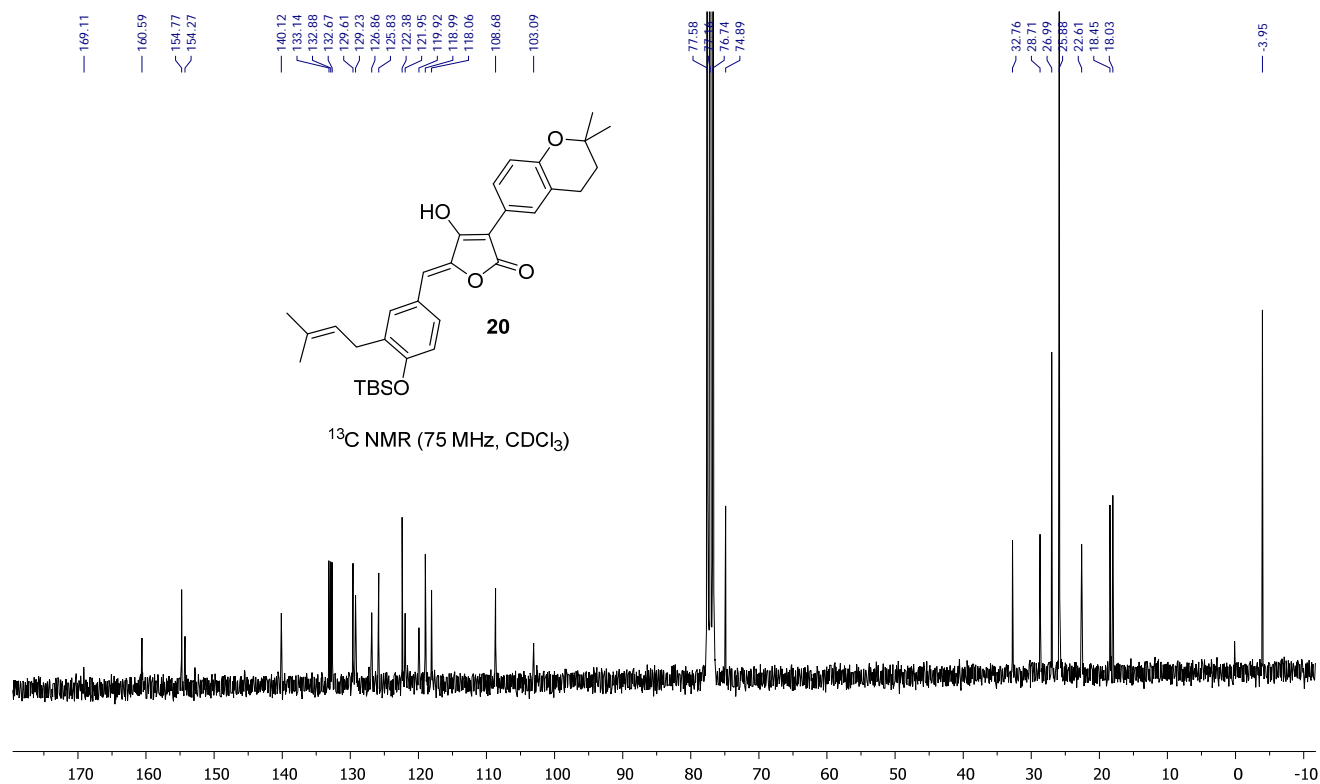
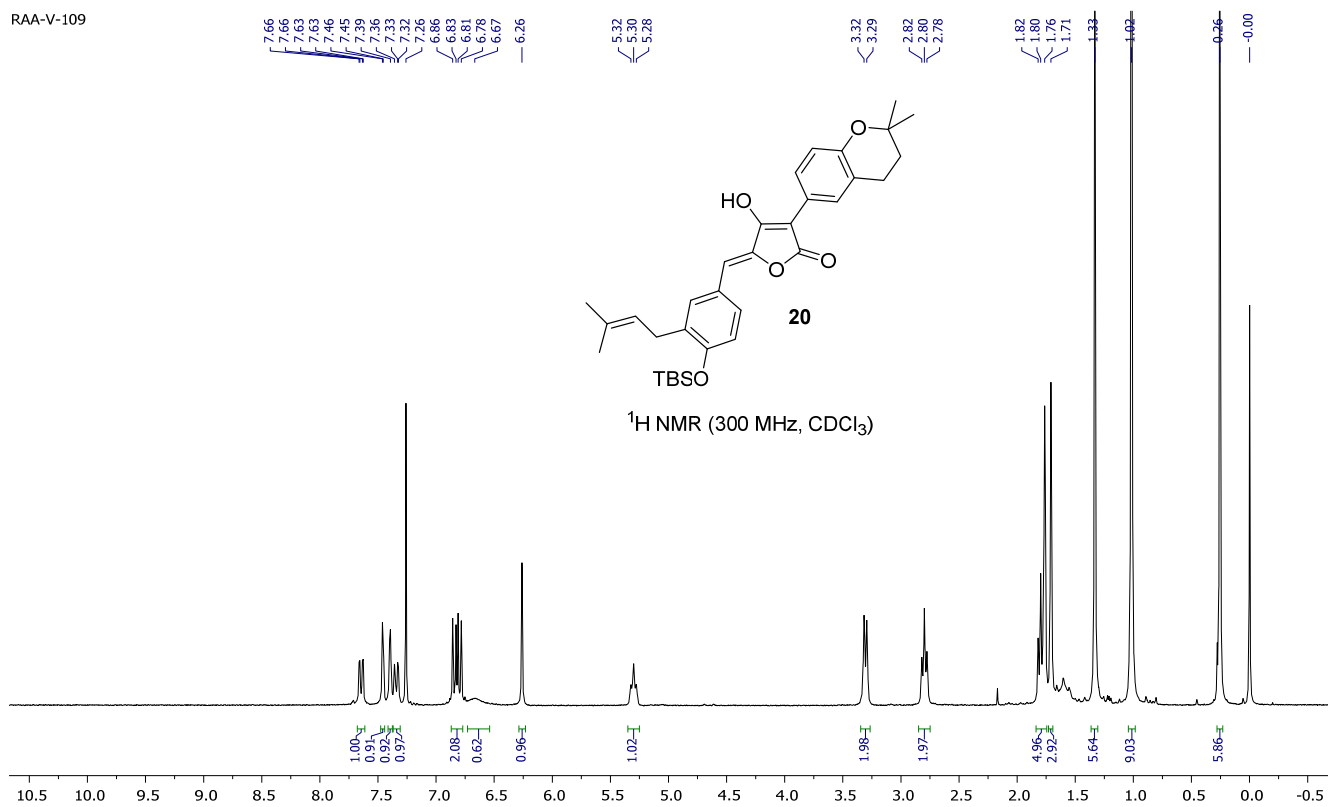
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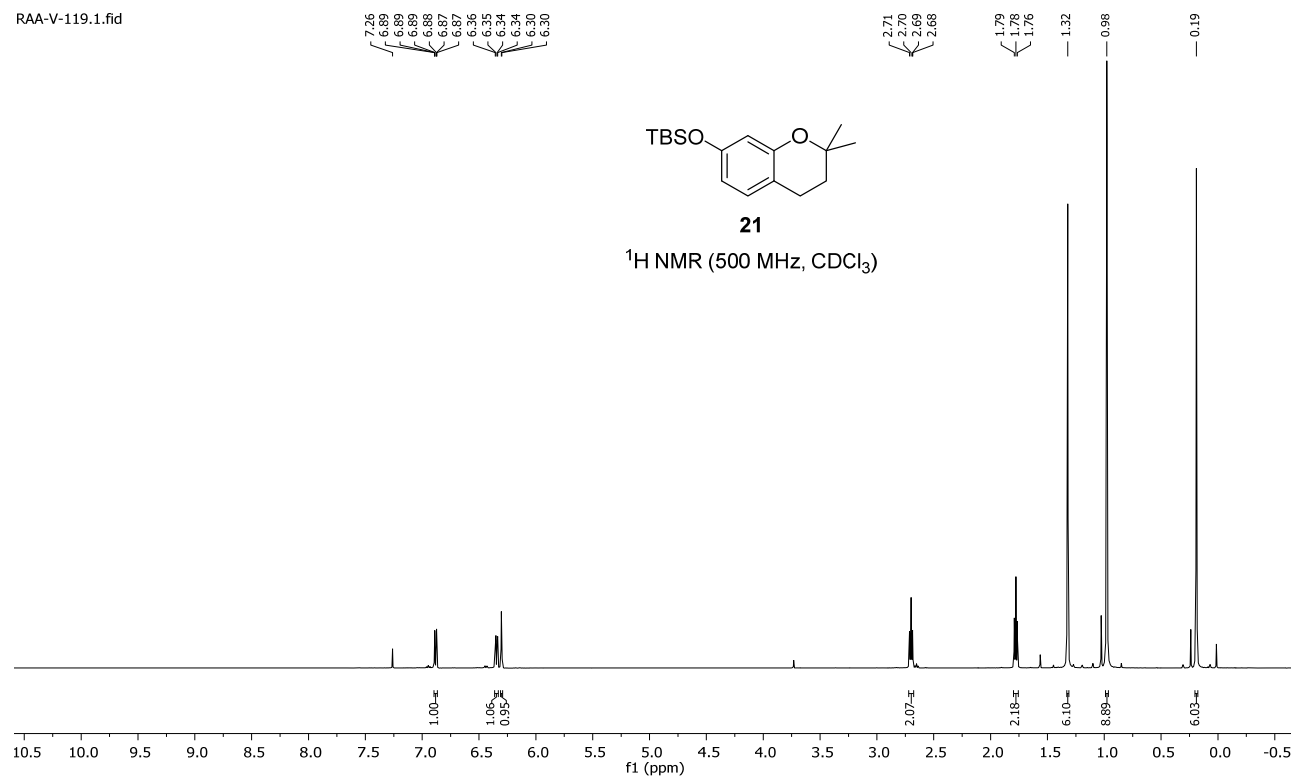
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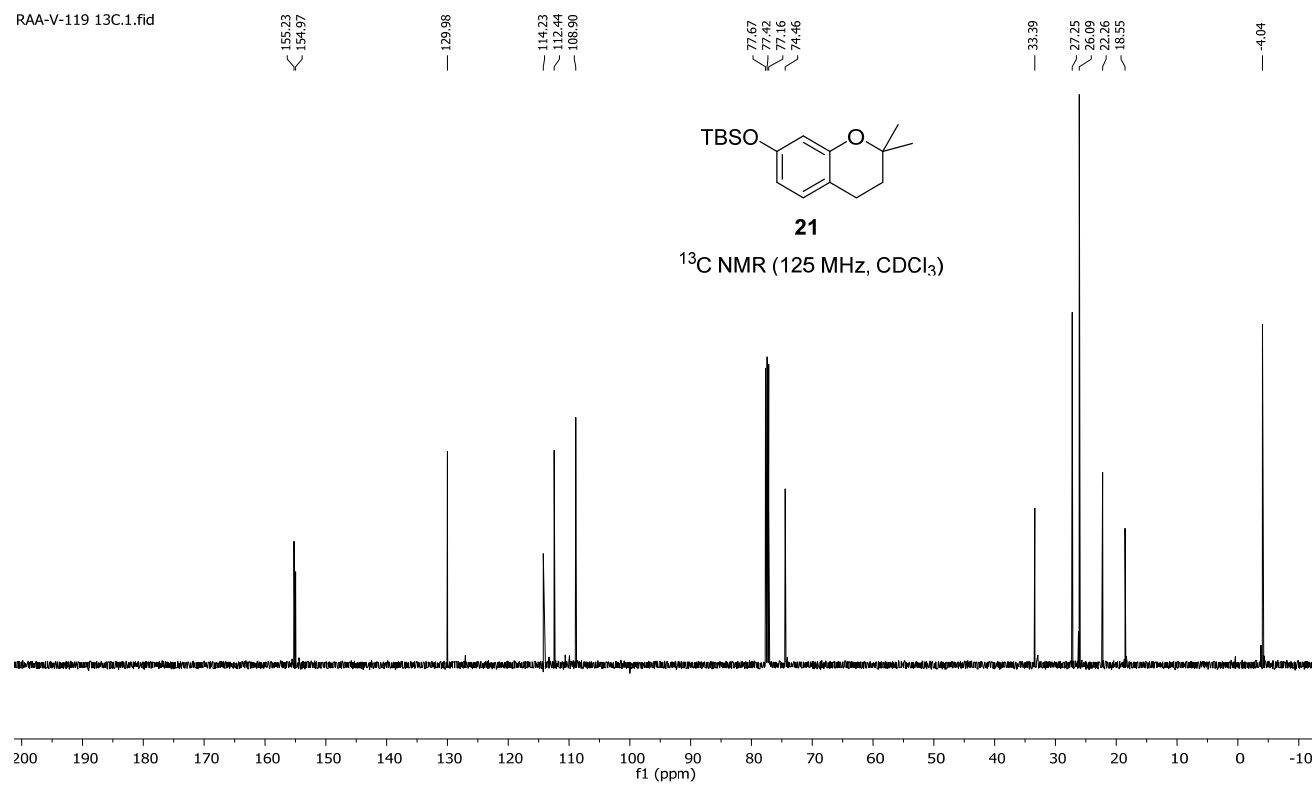
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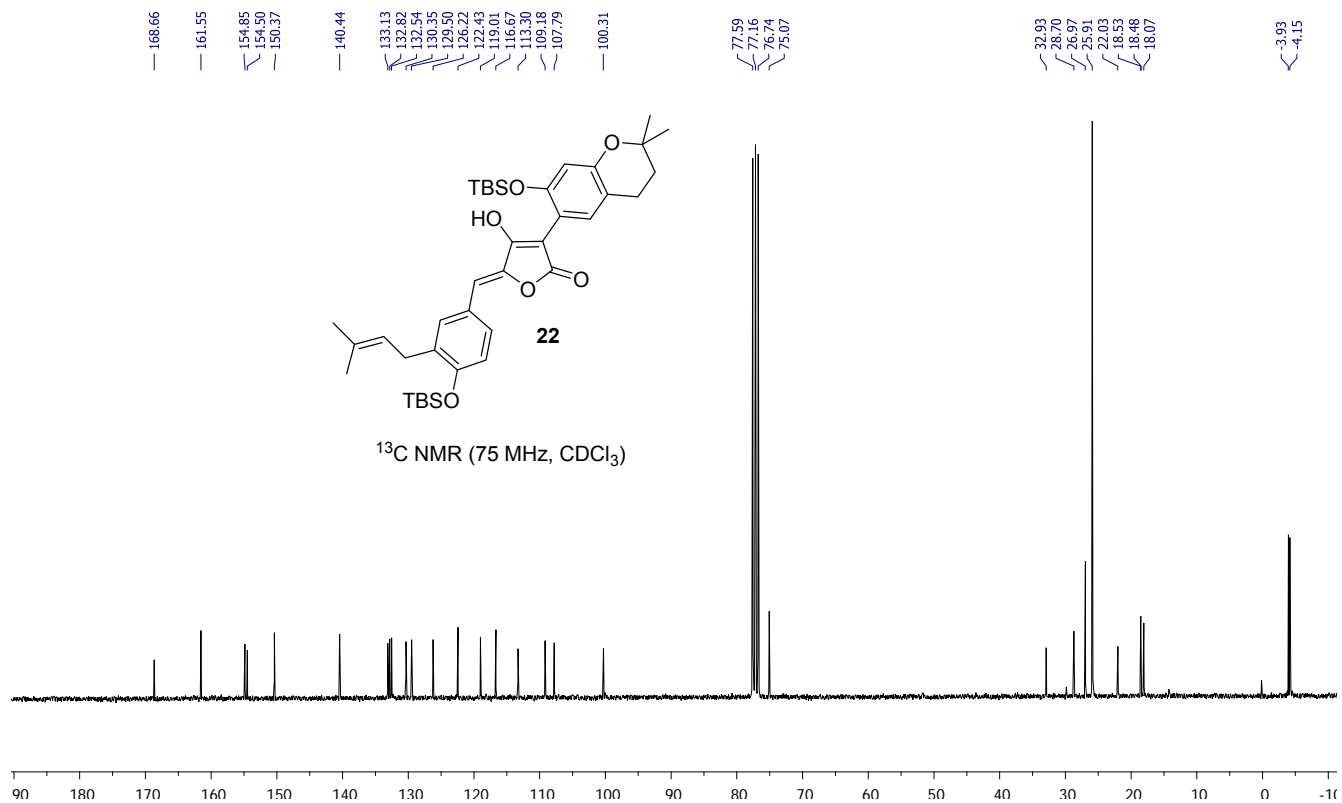
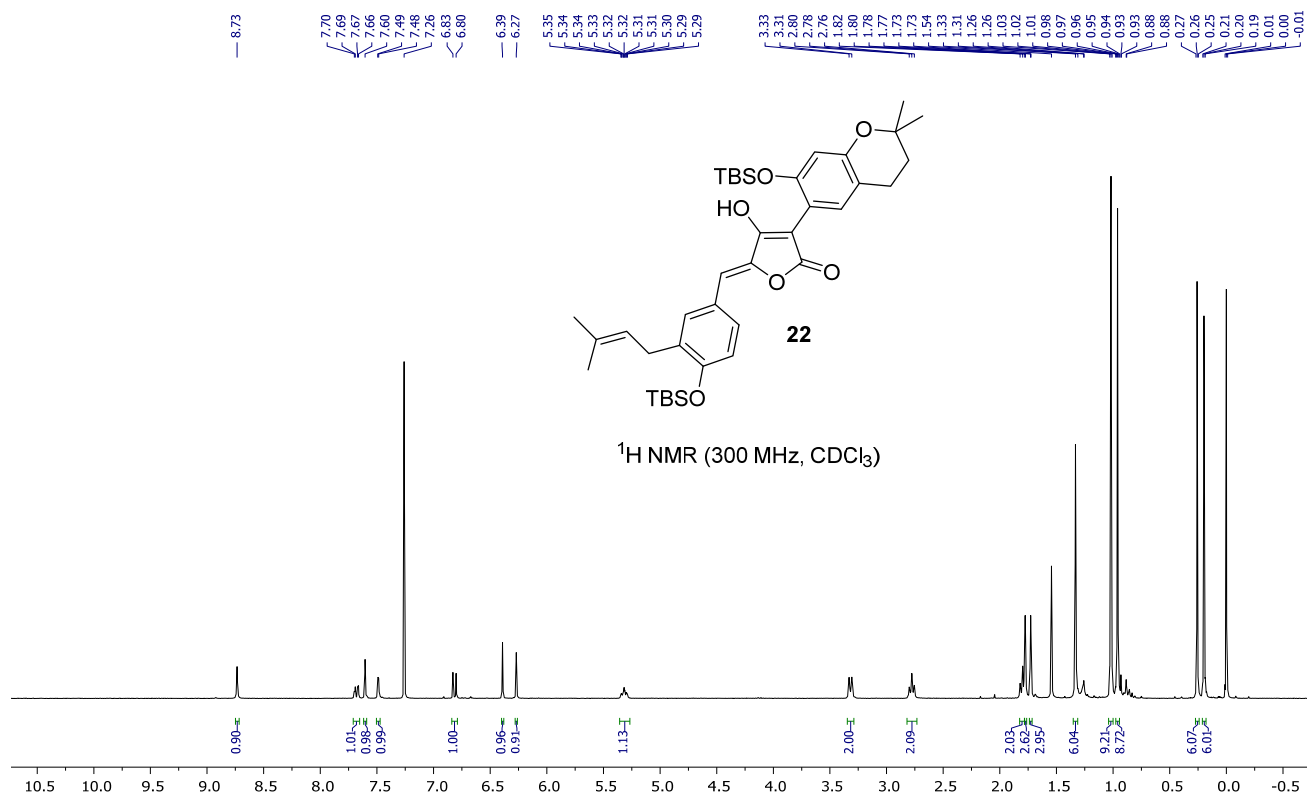


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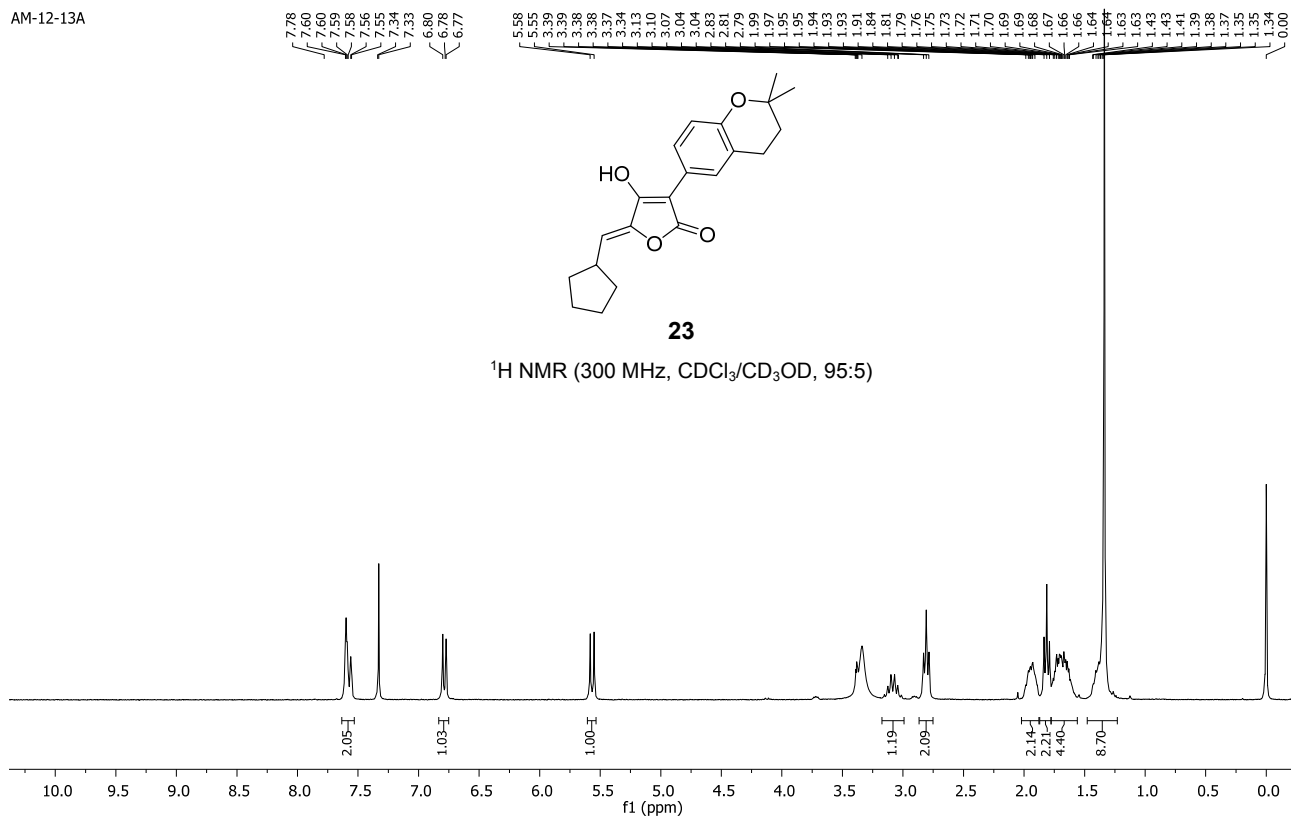


RAA-V-119 13C.1.fid

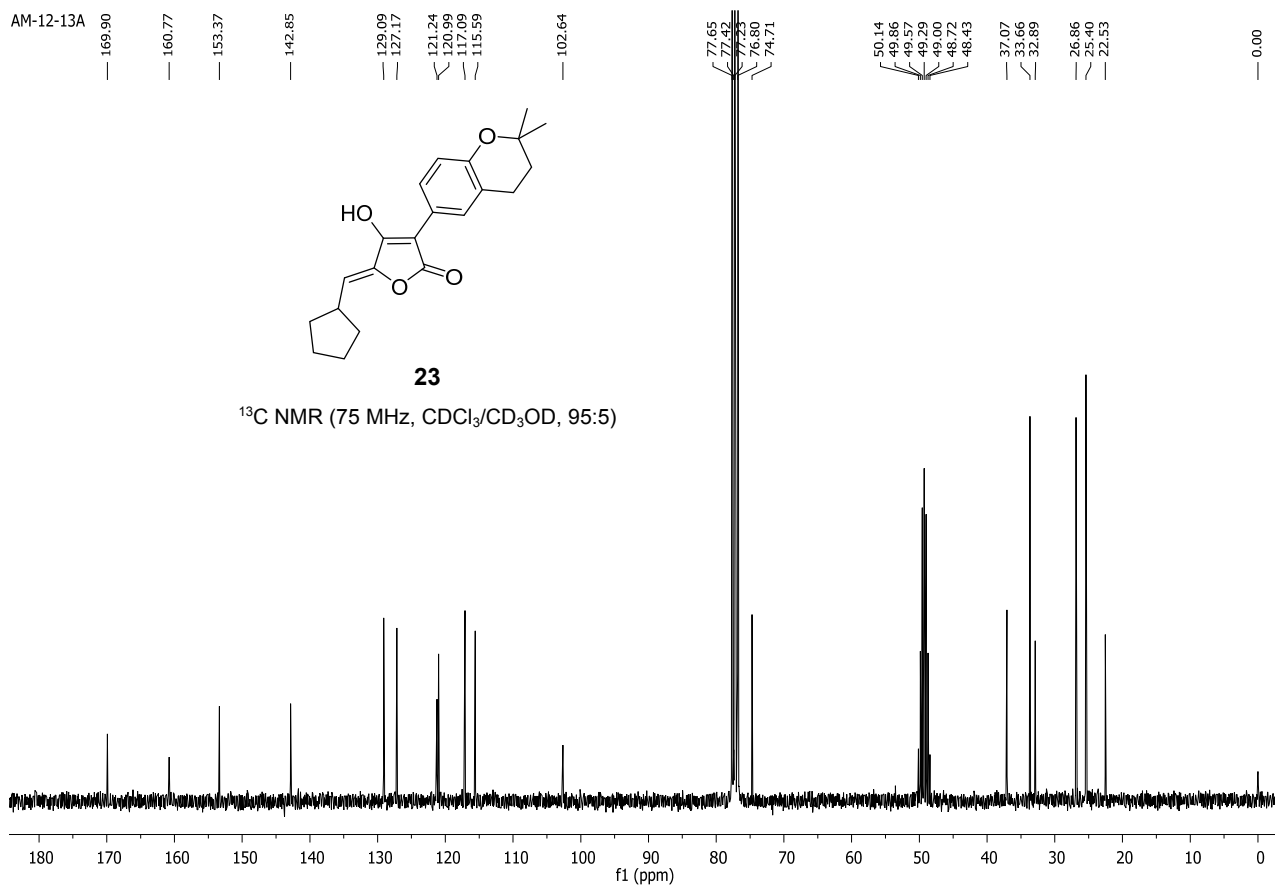




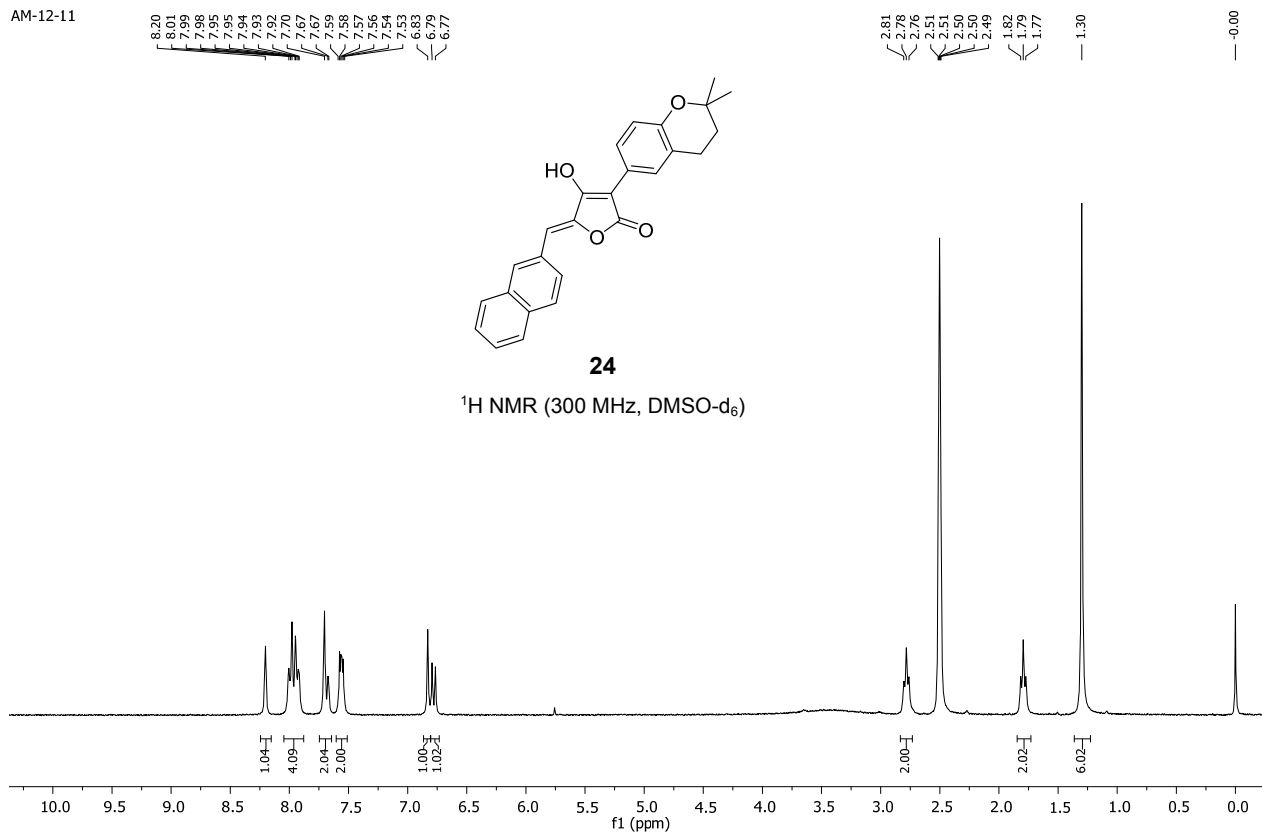
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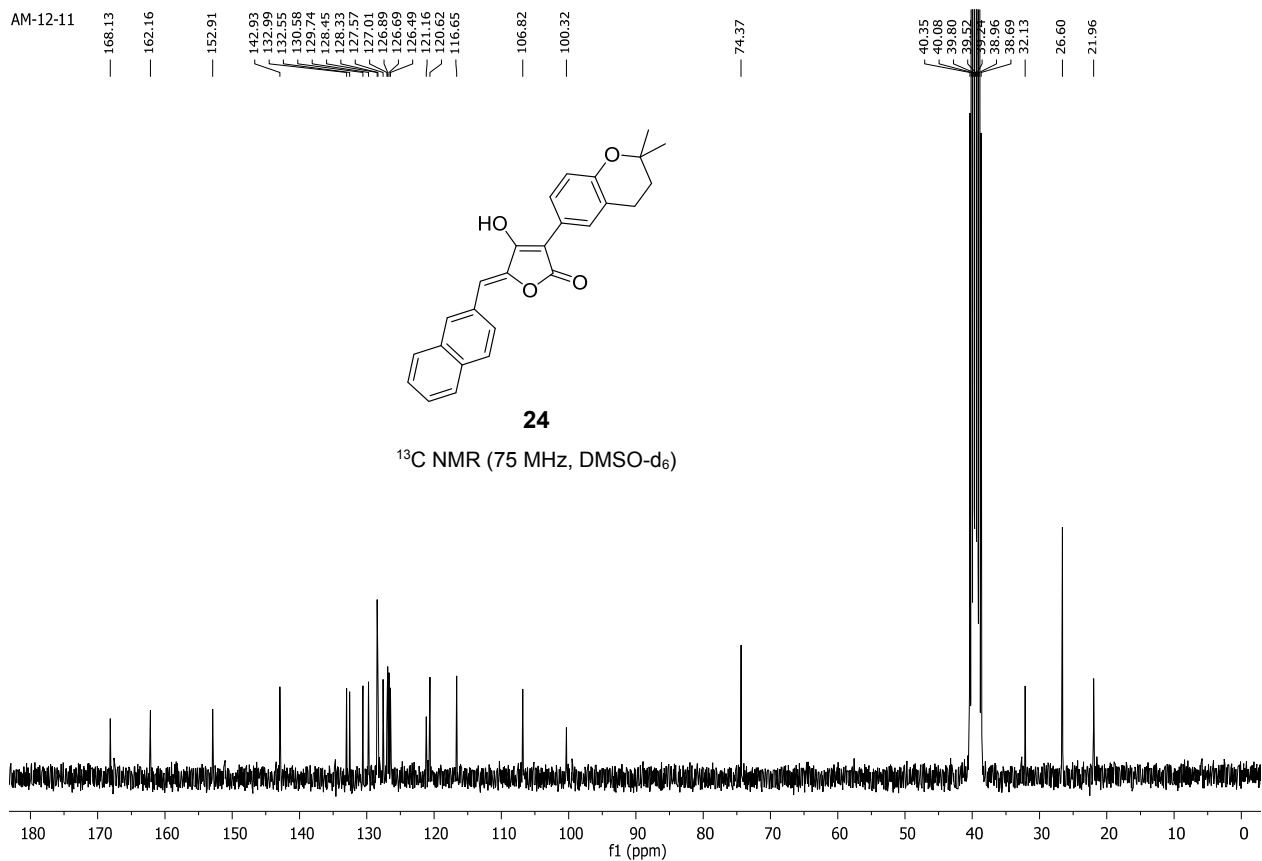
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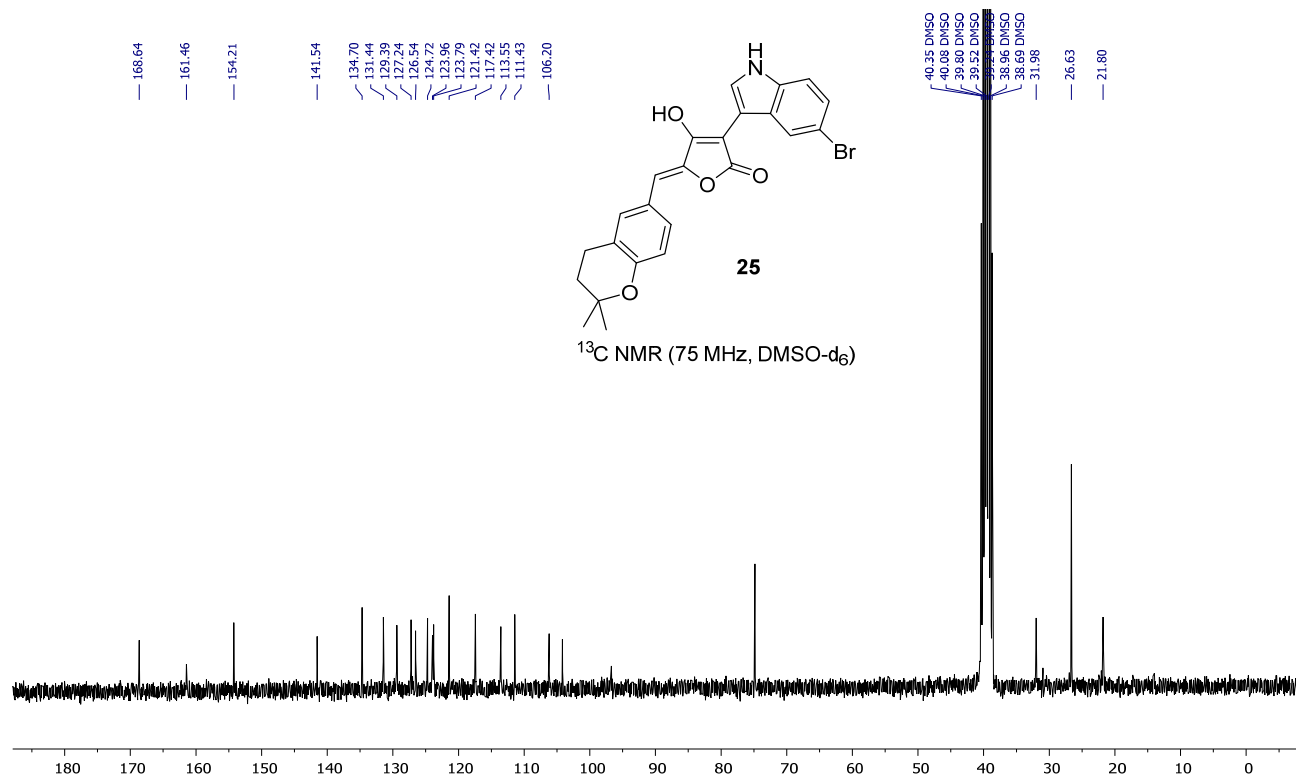
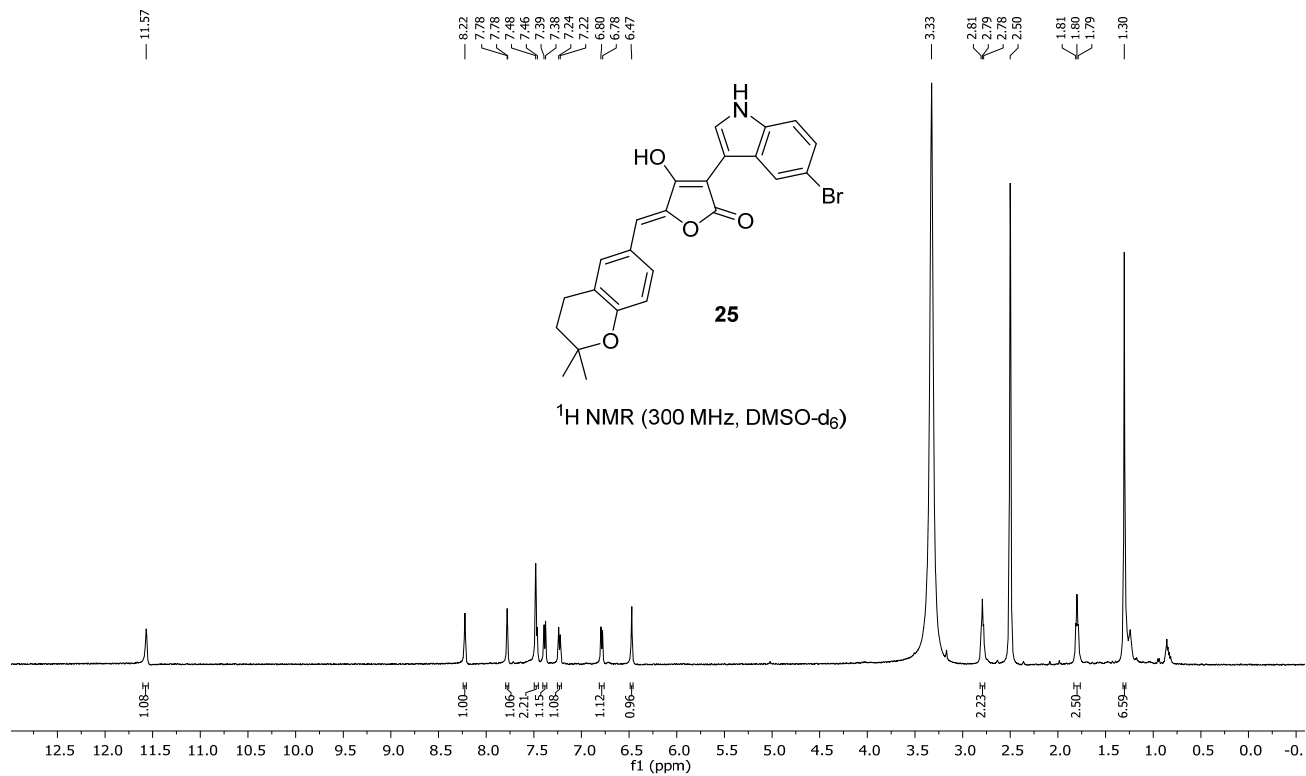


AM-12-11



AM-12-11

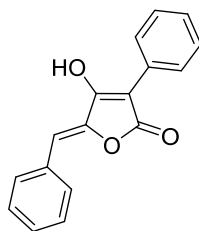




AM-10-163B
 7.816
 7.814
 7.808
 7.803
 7.793
 7.778
 7.777
 7.775
 7.775
 7.750
 7.748
 7.747
 7.746
 7.745
 7.744
 7.742
 7.741
 7.741
 7.738
 7.733
 7.731

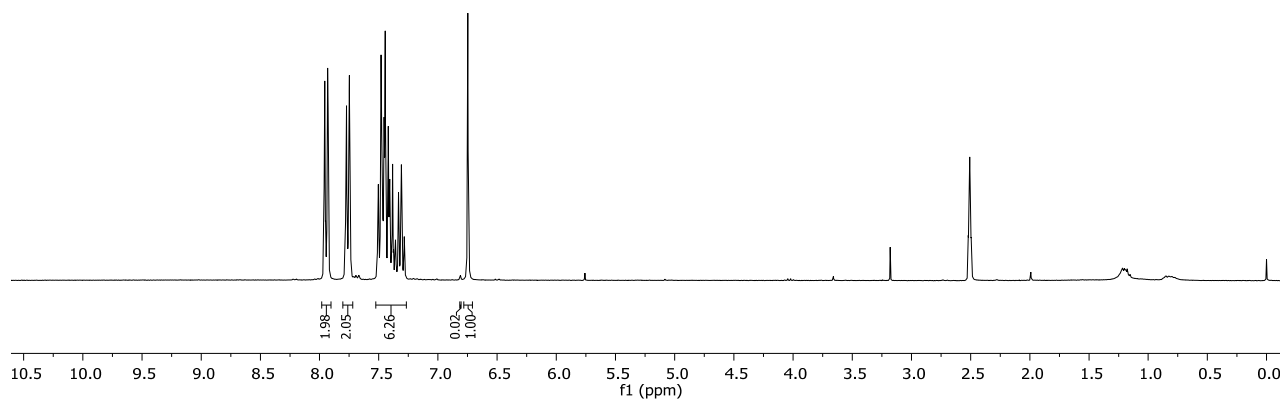
2.57
 2.51
 2.51
 2.50
 2.50

0.00



1

¹H NMR (300 MHz, DMSO-d₆)



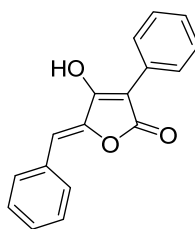
AM-10-163B

167.86
 163.82

142.42
 132.70
 130.09
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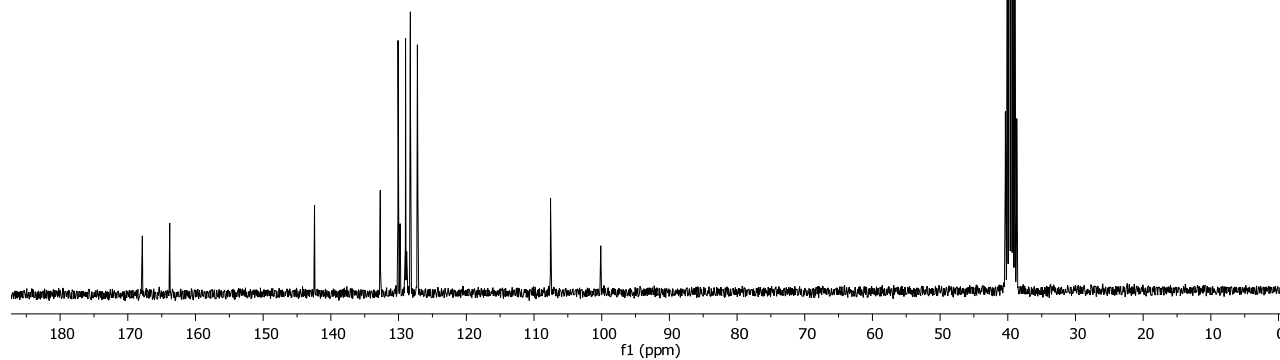
107.55
 100.12

40.36
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 38.96
 38.69



1

¹³C NMR (75 MHz, DMSO-d₆)



AM-11-195

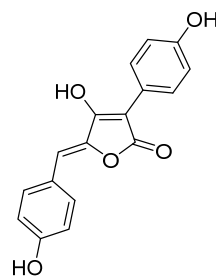
7.76
7.74
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7.66
7.64
7.64

6.84
6.84
6.82
6.81
6.40

4.86

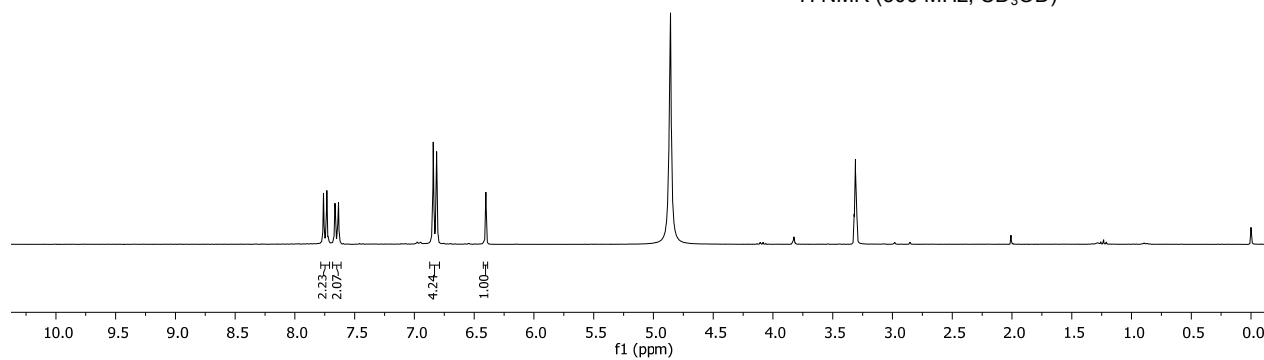
3.32
3.32
3.31
3.30
3.30

0.00



2

¹H NMR (300 MHz, CD₃OD)



AM-11-195

171.22
163.30
159.71
157.94

141.82

133.29

130.26

125.89

122.28

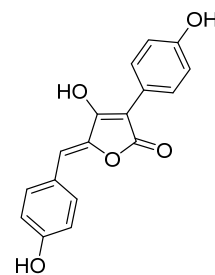
116.75

116.09

108.92

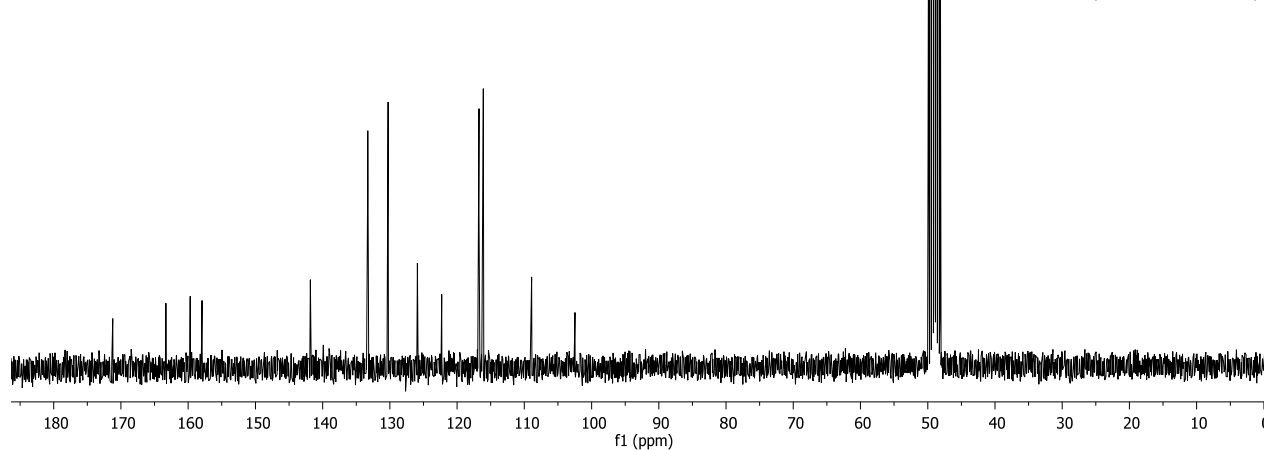
102.47

49.85
49.57
49.28
49.00
48.72
48.43
48.15



2

¹³C NMR (75 MHz, CD₃OD)



AM-11-109

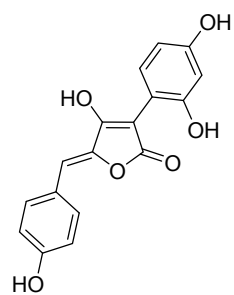
7.66
7.63
7.60
7.59

6.83
6.82
6.45
6.44
6.42
6.32

4.86

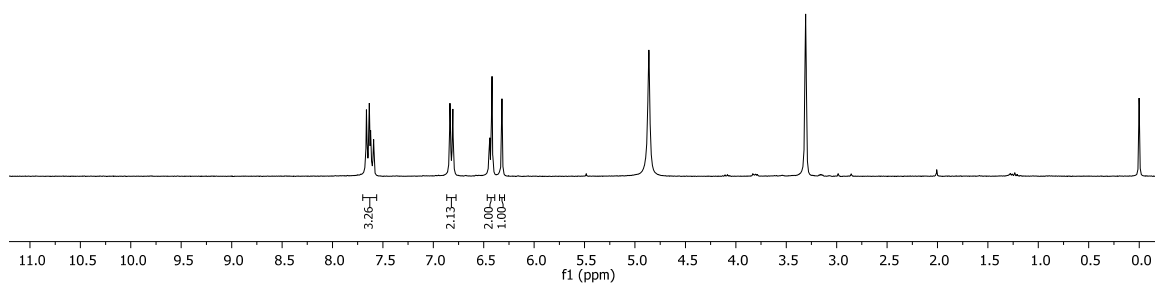
3.31
3.31
3.30

0.00



3

¹H NMR (300 MHz, CD₃OD)



AM-11-109

171.35

163.58
159.90
159.66
155.66

141.81

133.27
131.66

126.05

116.77

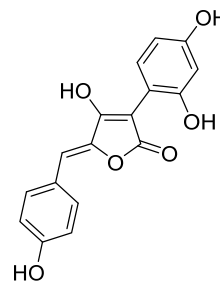
109.56
109.08
108.48

103.85

100.09

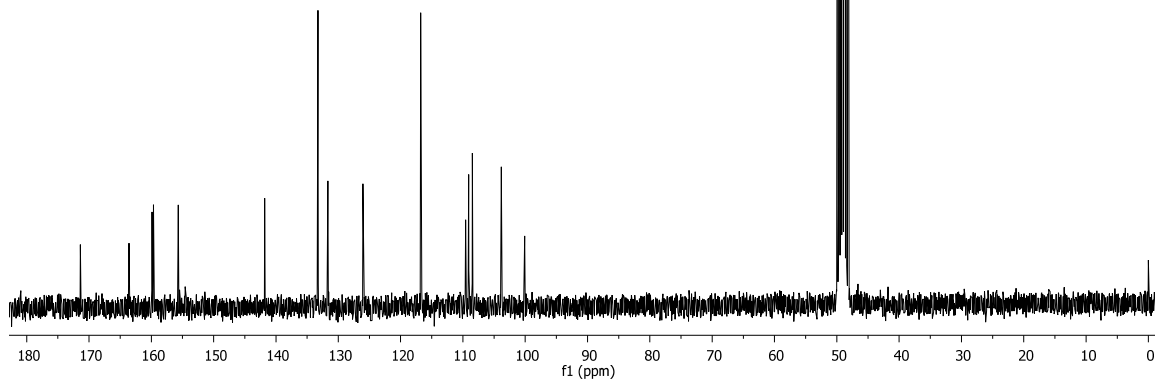
48.90
48.62
48.33
48.77
48.48
48.20

0.00

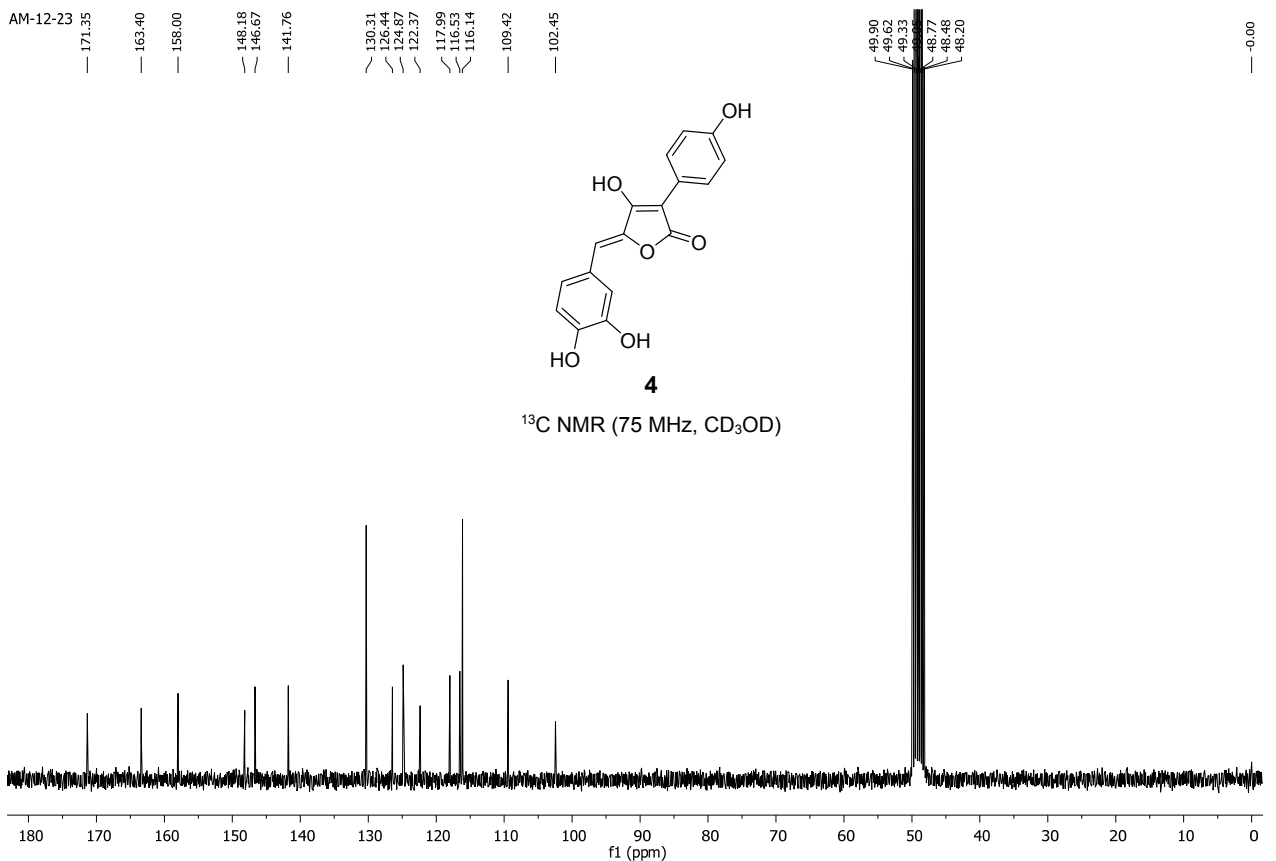
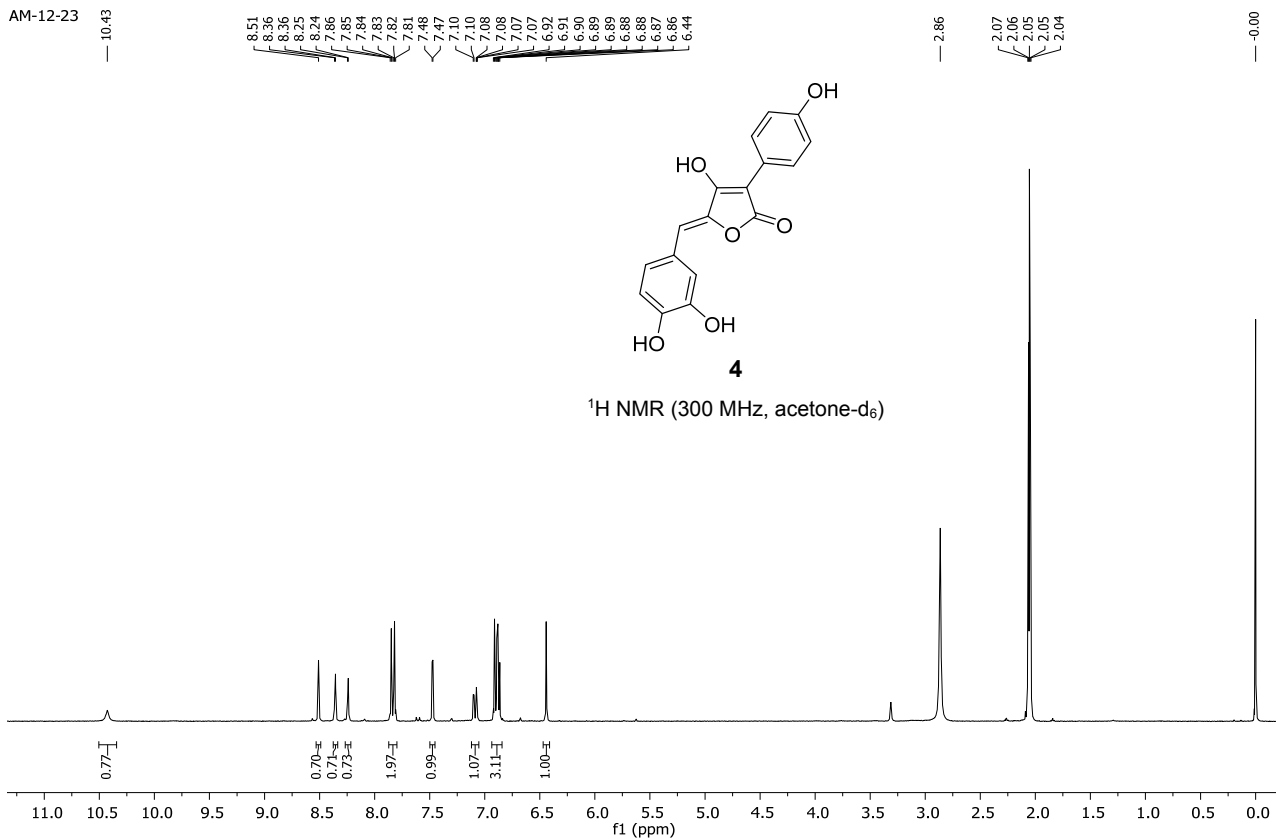


3

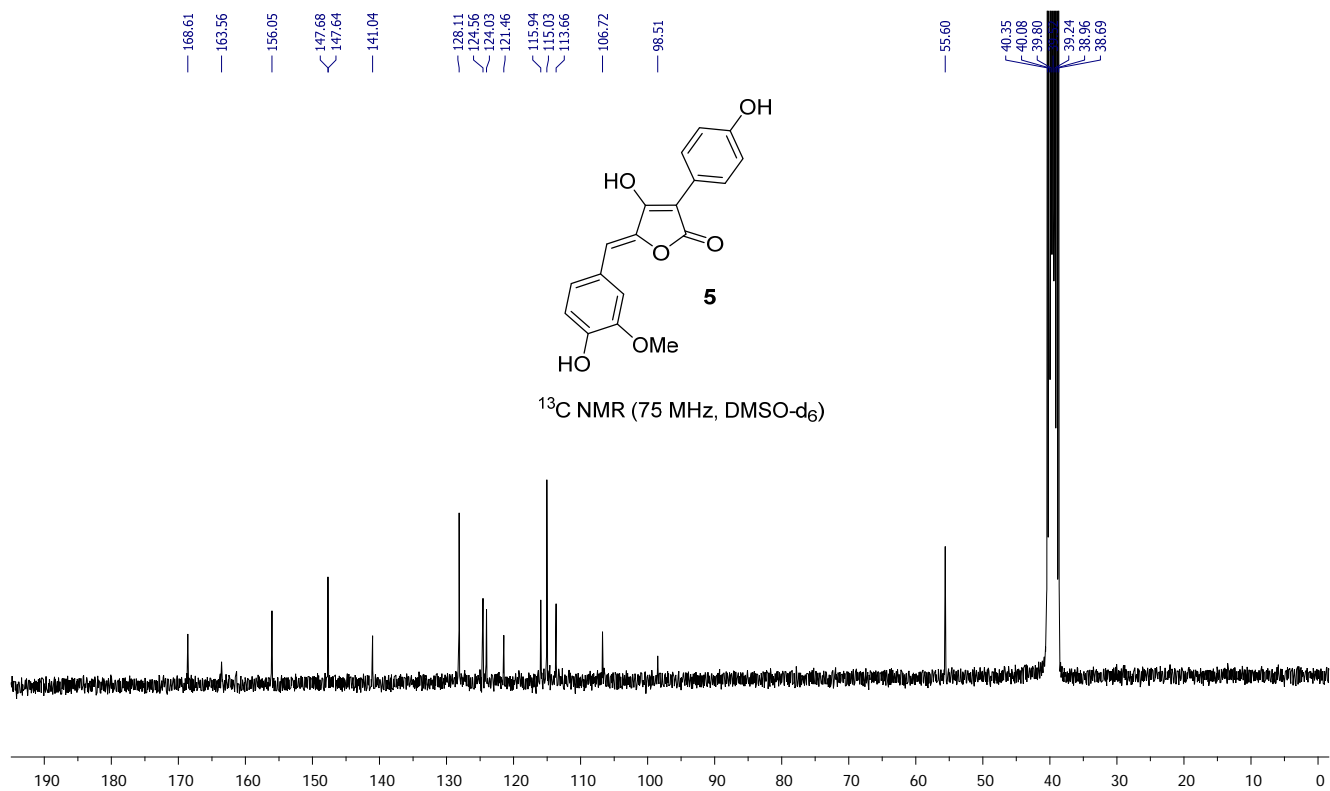
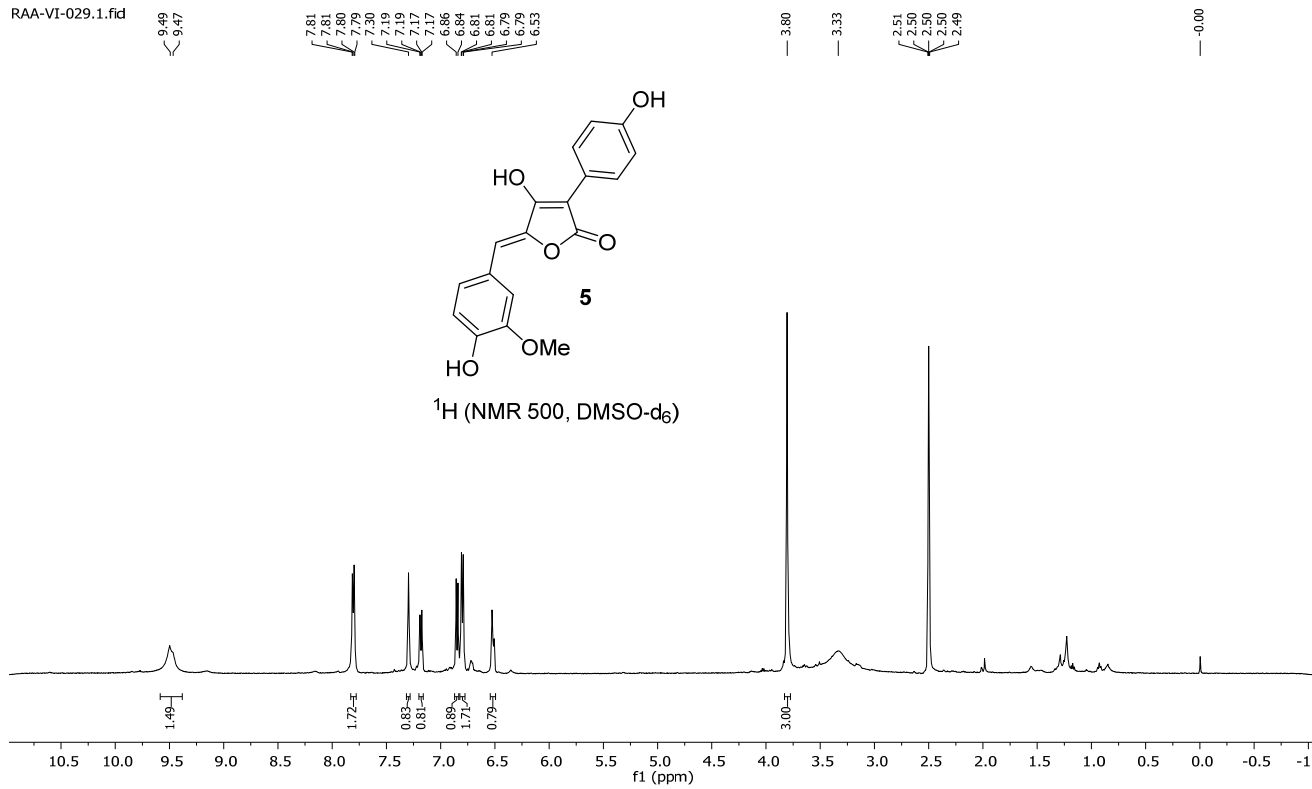
¹³C NMR (75 MHz, CD₃OD)



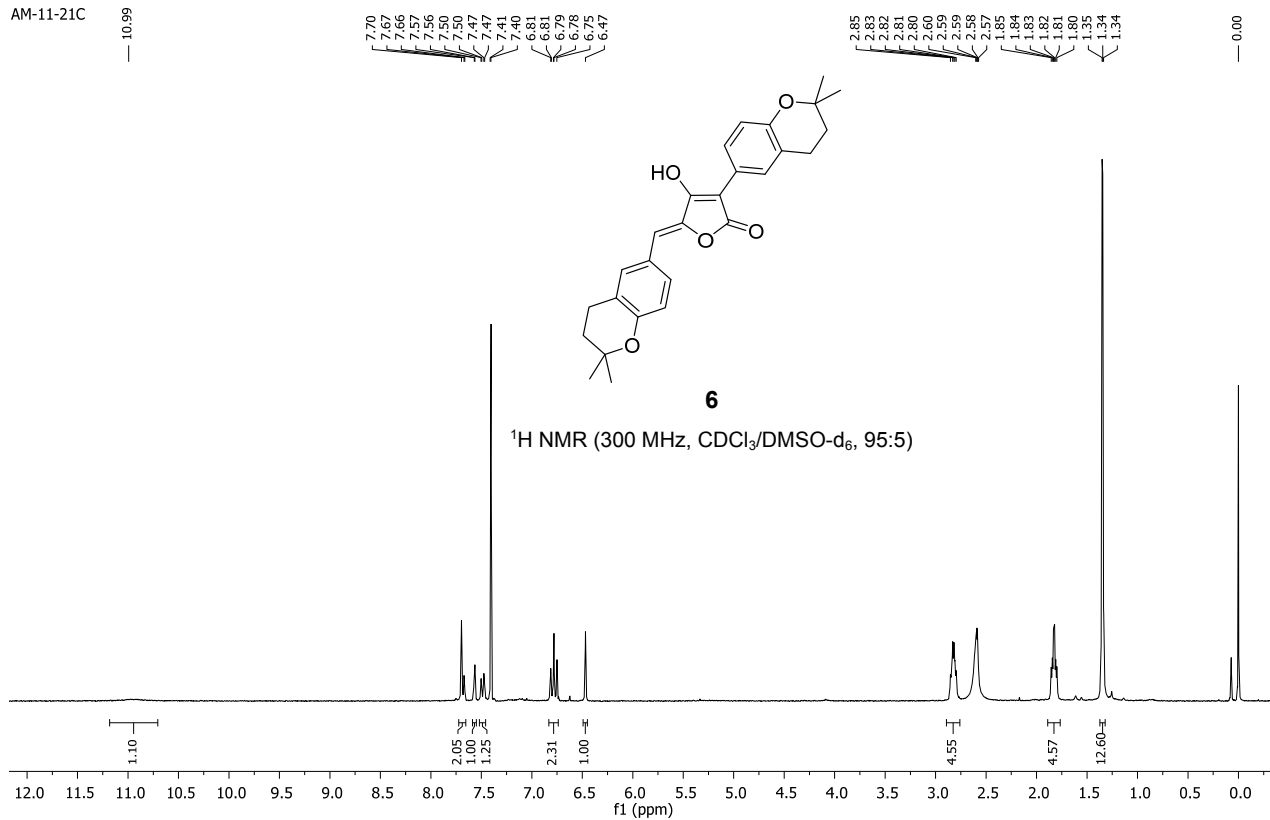
AM-12-23



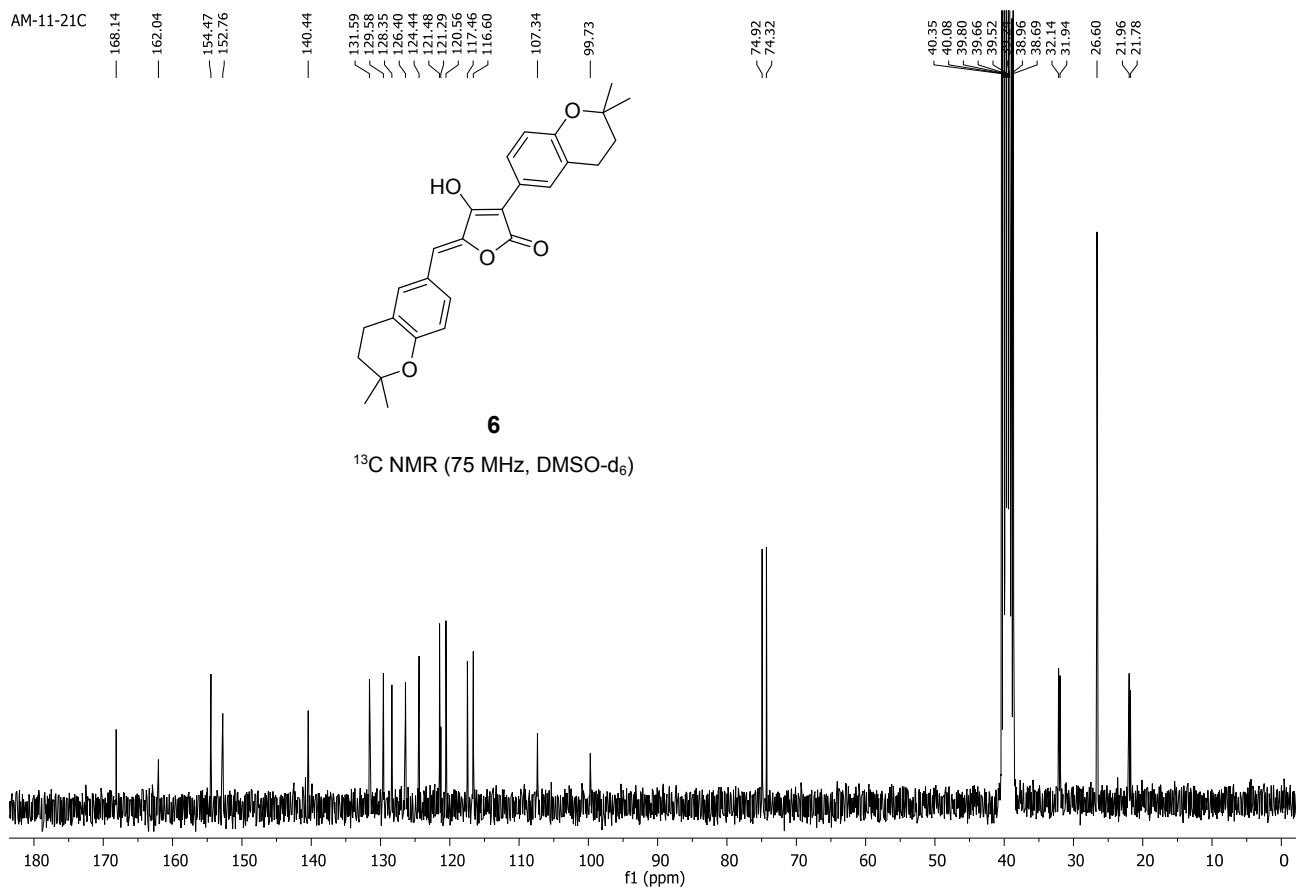
RAA-VI-029.1.fid



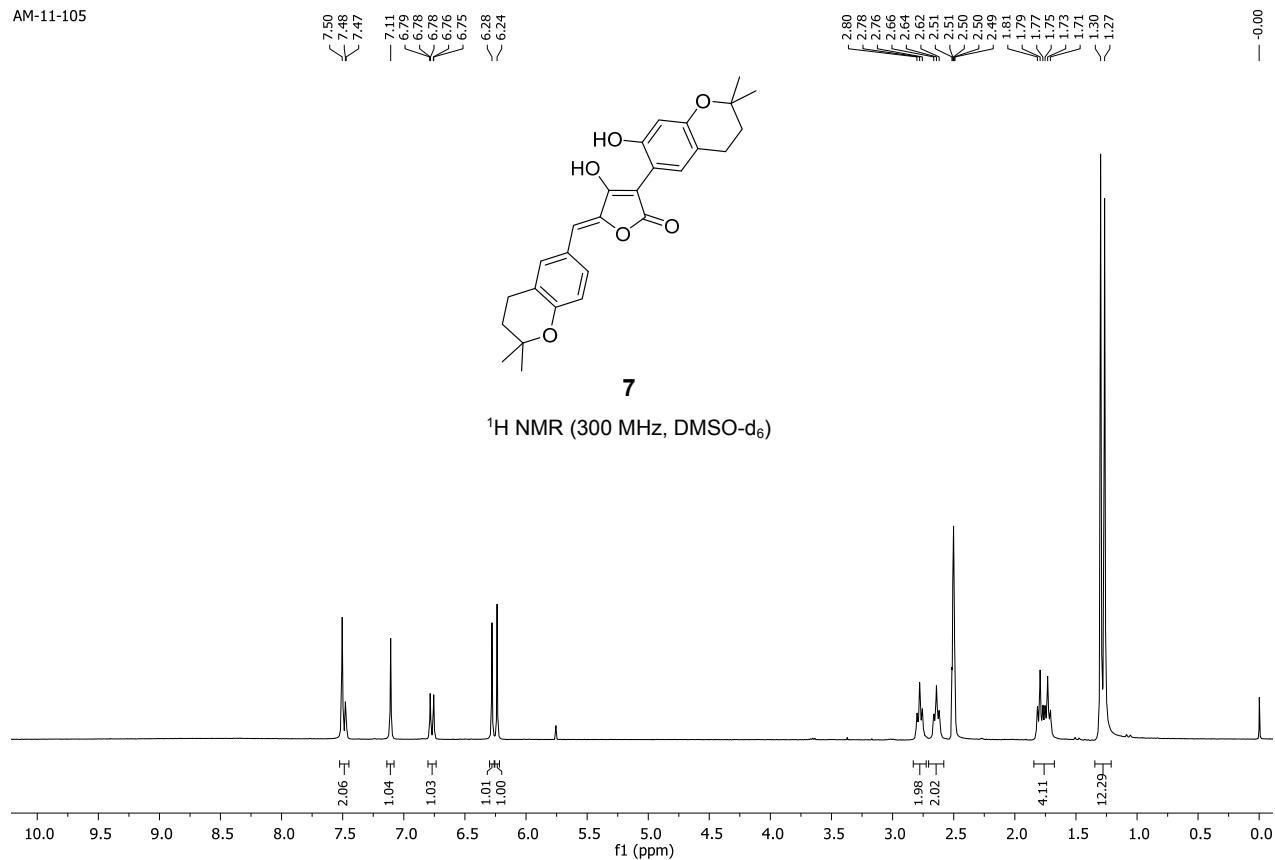
AM-11-21C



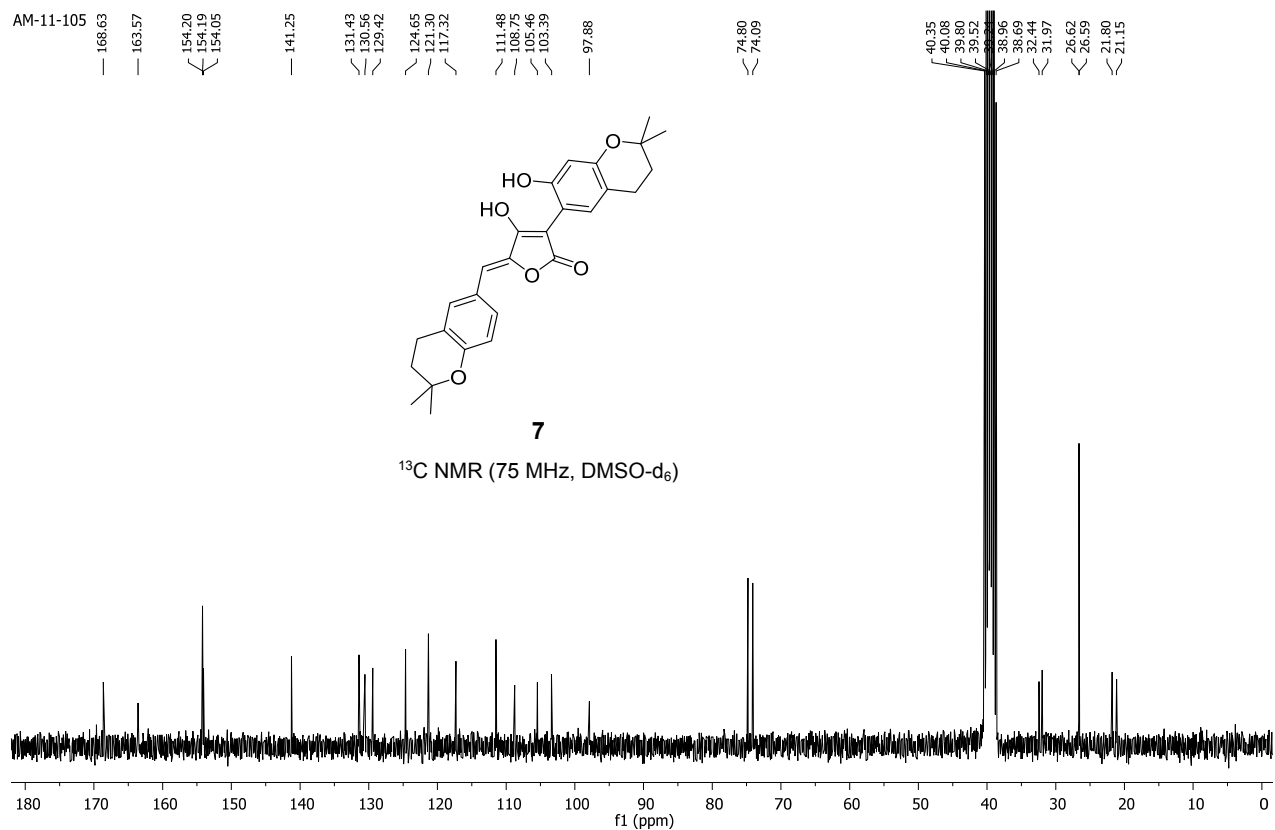
AM-11-21C



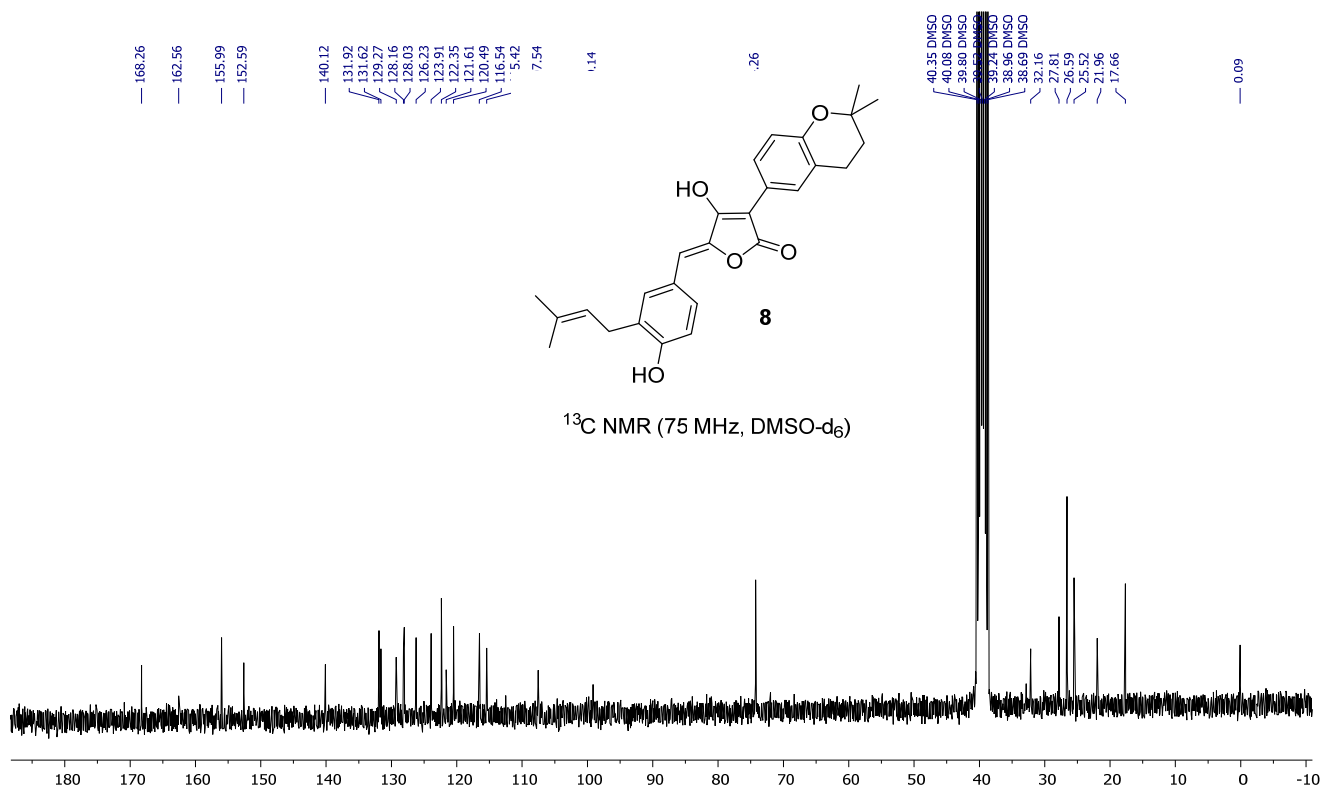
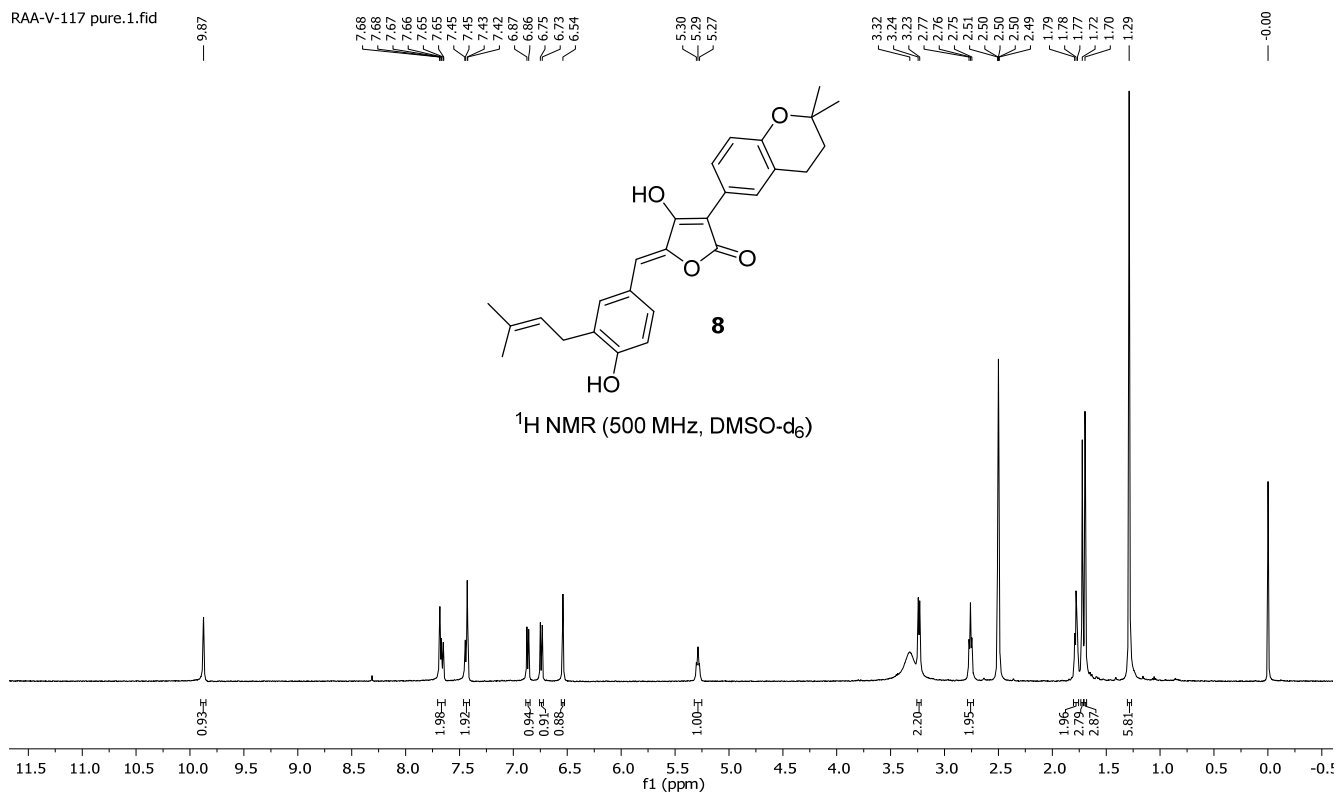
AM-11-105



AM-11-105



RAA-V-117 pure.1.fid



RAA-V-141 pure
EXP: 1H

