Supplementary Material

Visible light-promoted Selectfluor-mediated quinone functionalization with unactivated Csp^3-H components

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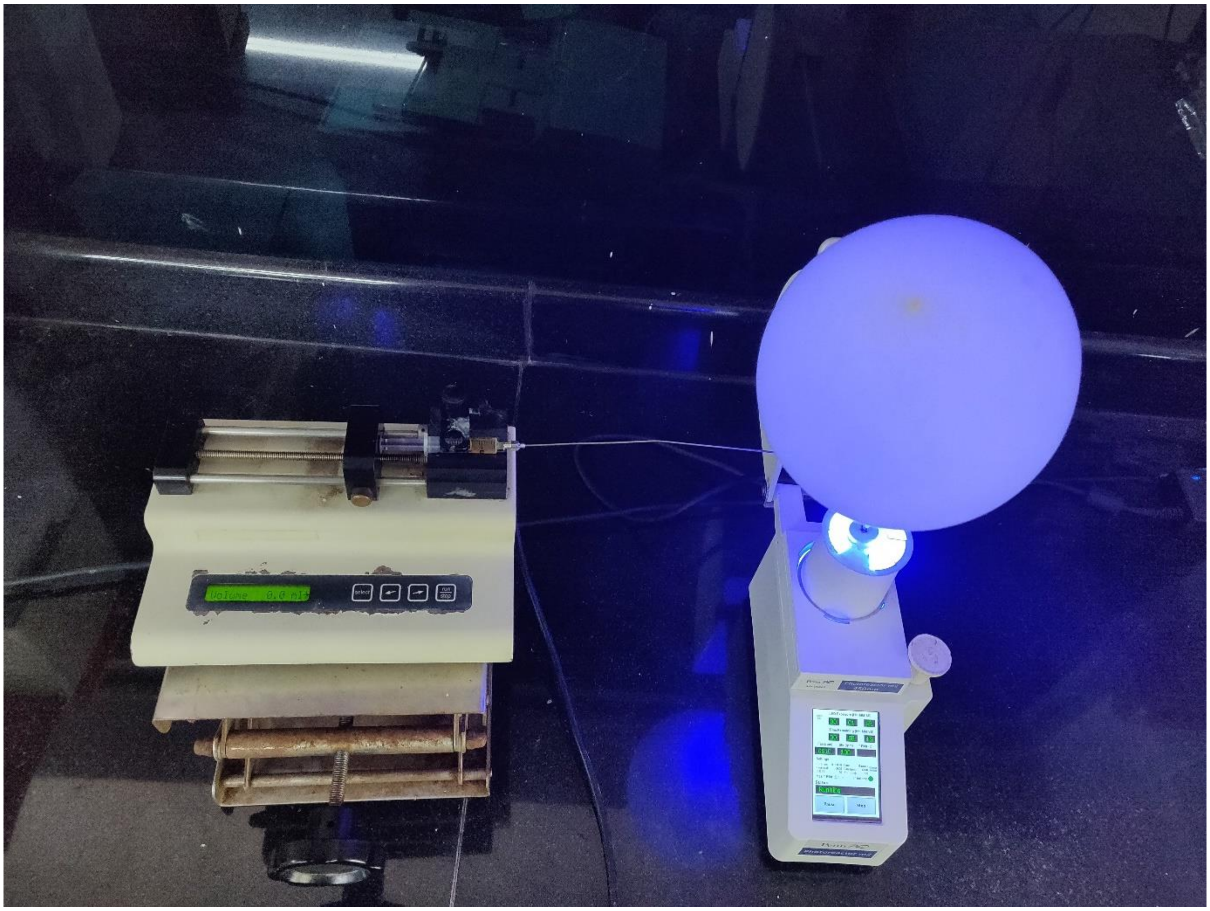
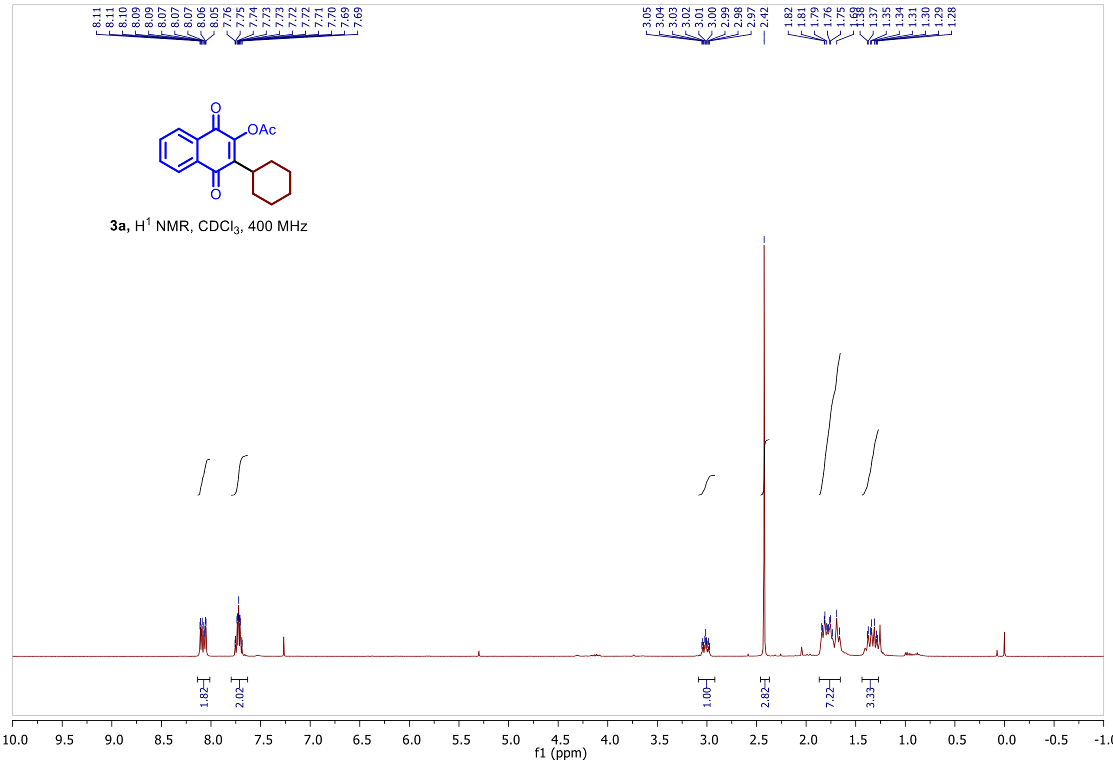
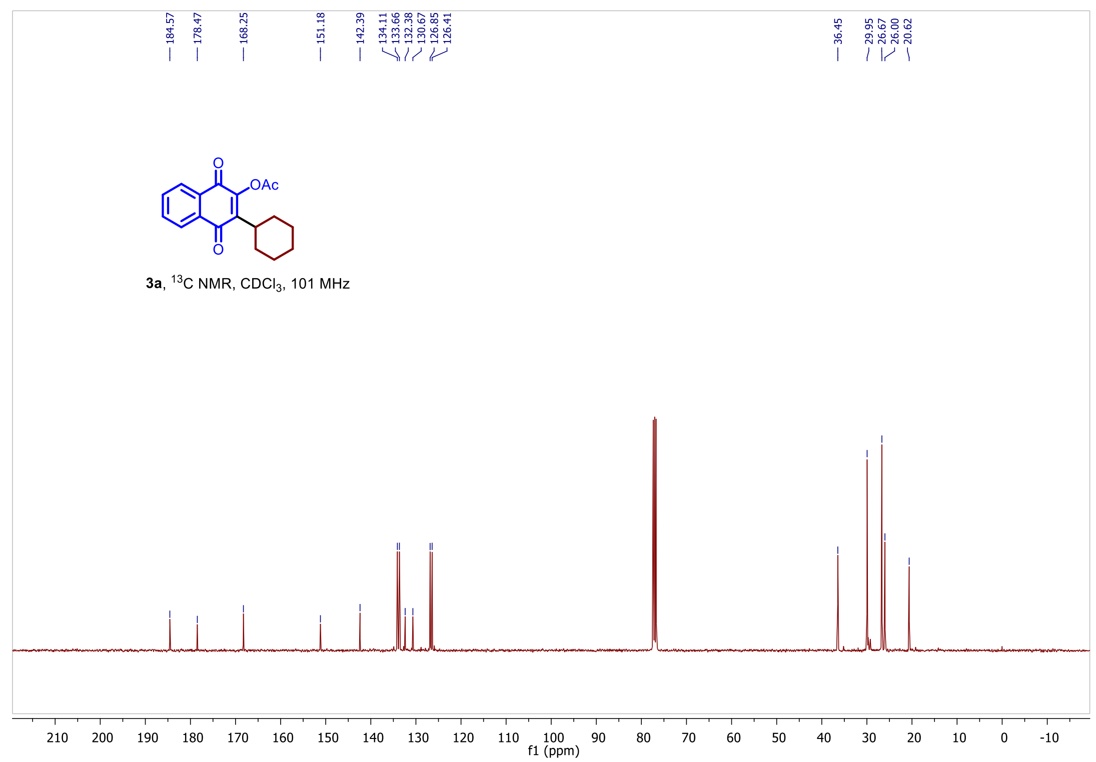


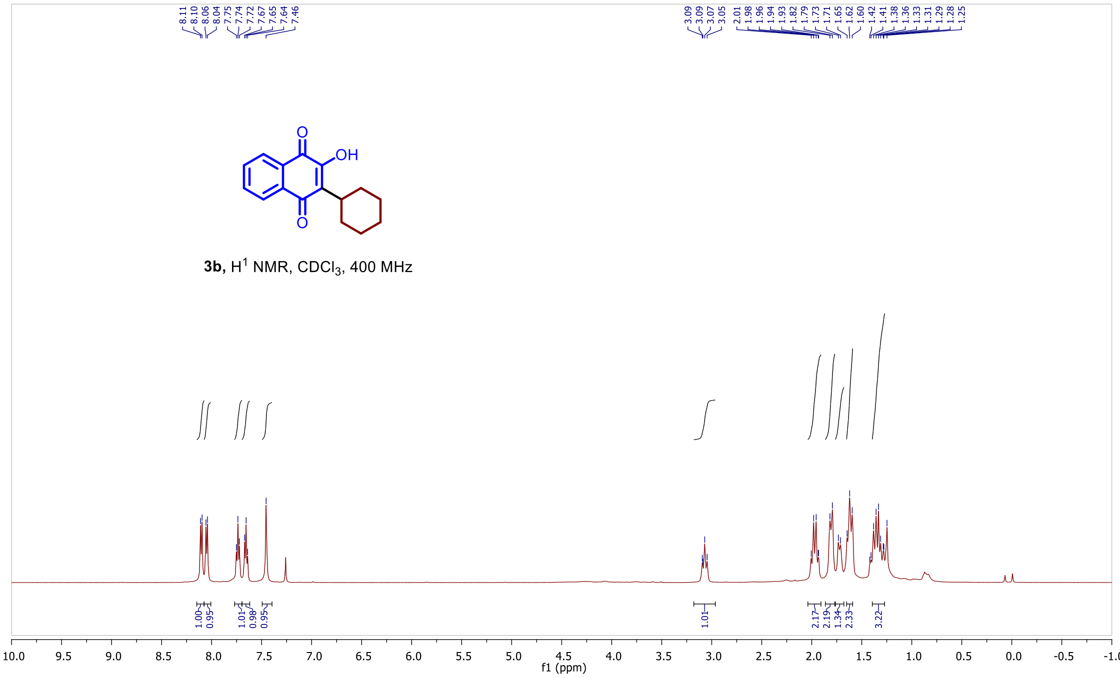
Figure S1 Reaction setup

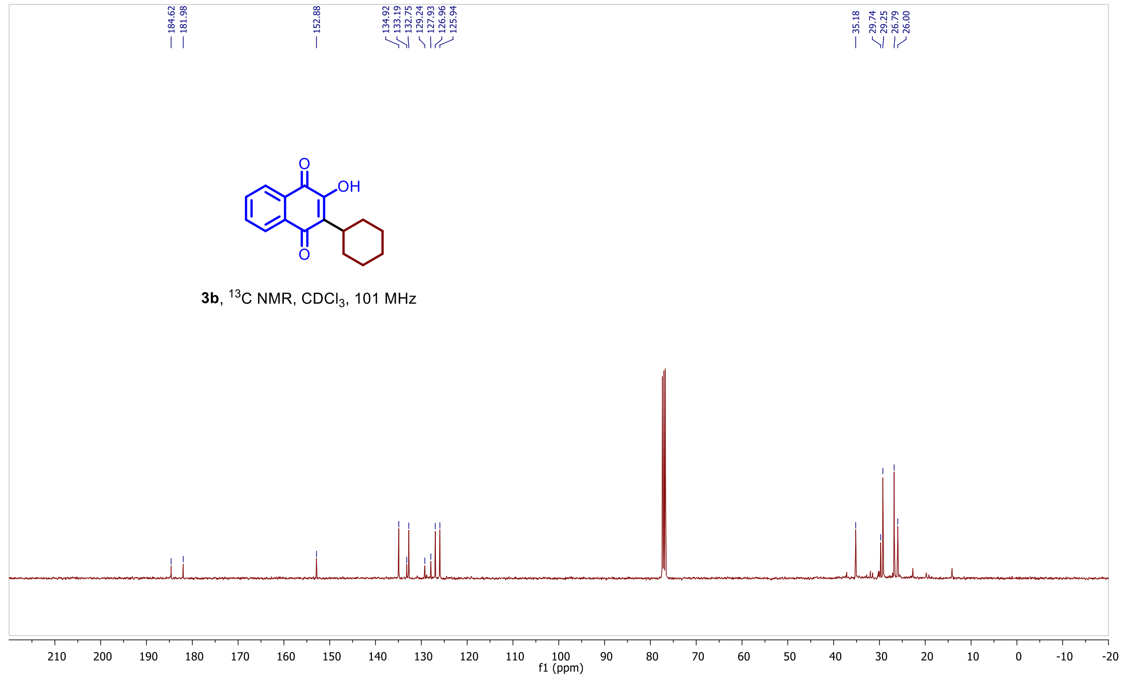


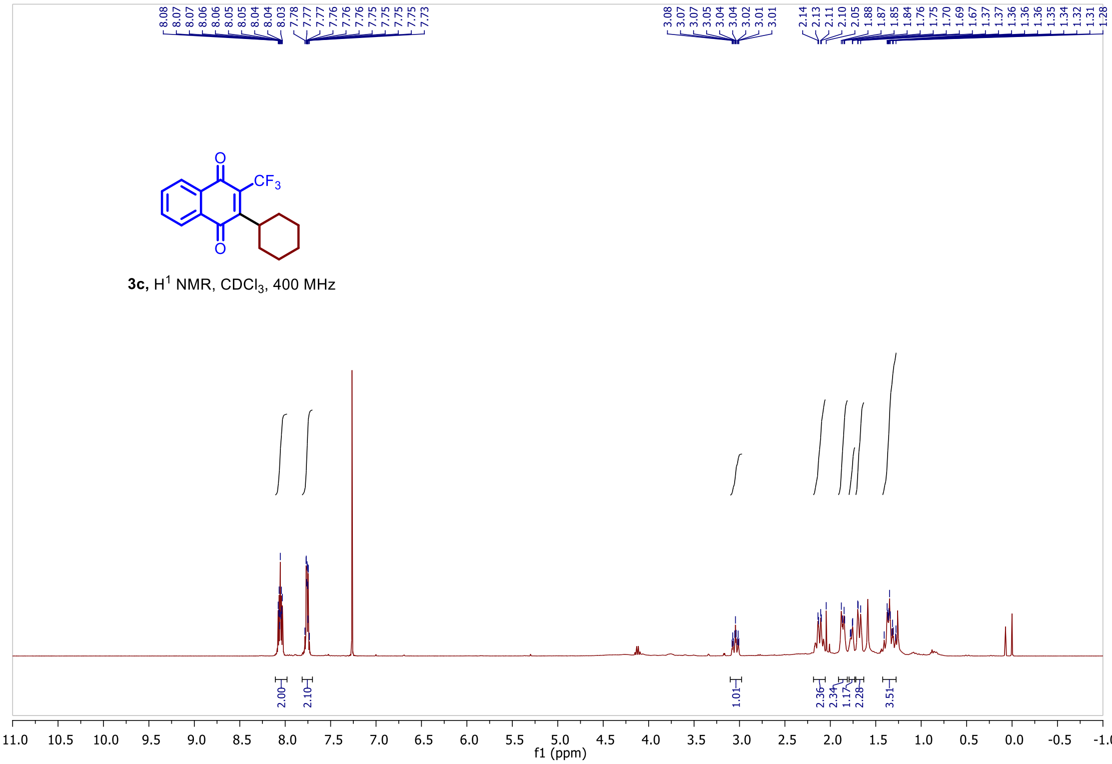
3a, H^1 NMR, $CDCl_3$, 400 MHz



3a, ^{13}C NMR, $CDCl_3$, 101 MHz


3b, H1 NMR, CDCl3, 400 MHz
f1 (ppm)


3b, 13C NMR, CDCl3, 101 MHz
f1 (ppm)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8.06
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8.05
8.04
8.04
8.03
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7.77
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7.76
7.76
7.76
7.75
7.75
7.75
7.75
7.73
3.08
3.07
3.07
3.05
3.04
3.04
3.02
3.01
3.01
2.14
2.13
2.11
2.10
2.05
1.88
1.87
1.85
1.84
1.76
1.75
1.70
1.69
1.67
1.37
1.37
1.36
1.36
1.35
1.34
1.32
1.31
1.28
CF3
O
O
3c, H1 NMR, CDCl3, 400 MHz
2.00
2.10
1.01
2.36
2.34
1.17
2.28
3.51
11.0
10.5
10.0
9.5
9.0
8.5
8.0
7.5
7.0
6.5
6.0
5.5
5.0
4.5
4.0
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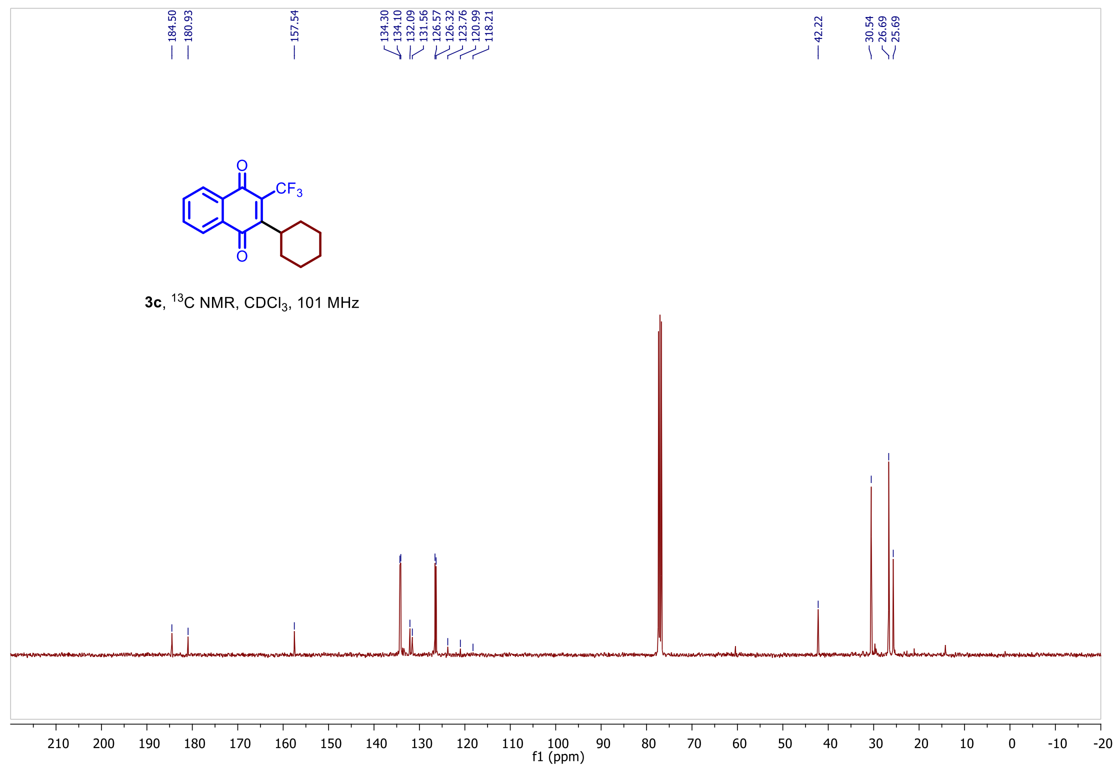
f1 (ppm)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123.76
120.99
118.21
42.22
30.54
26.69
25.69
CF3
O
O
3c, 13C NMR, CDCl3, 101 MHz
210
200
190
180
170
160
150
140
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100
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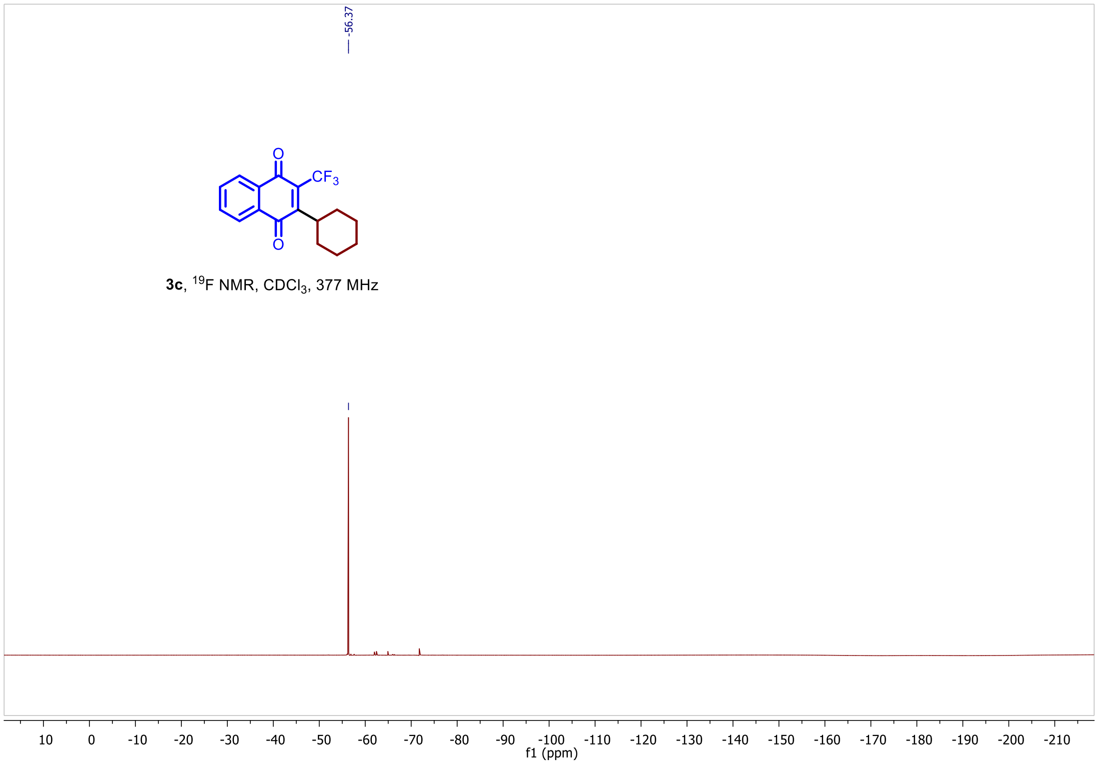
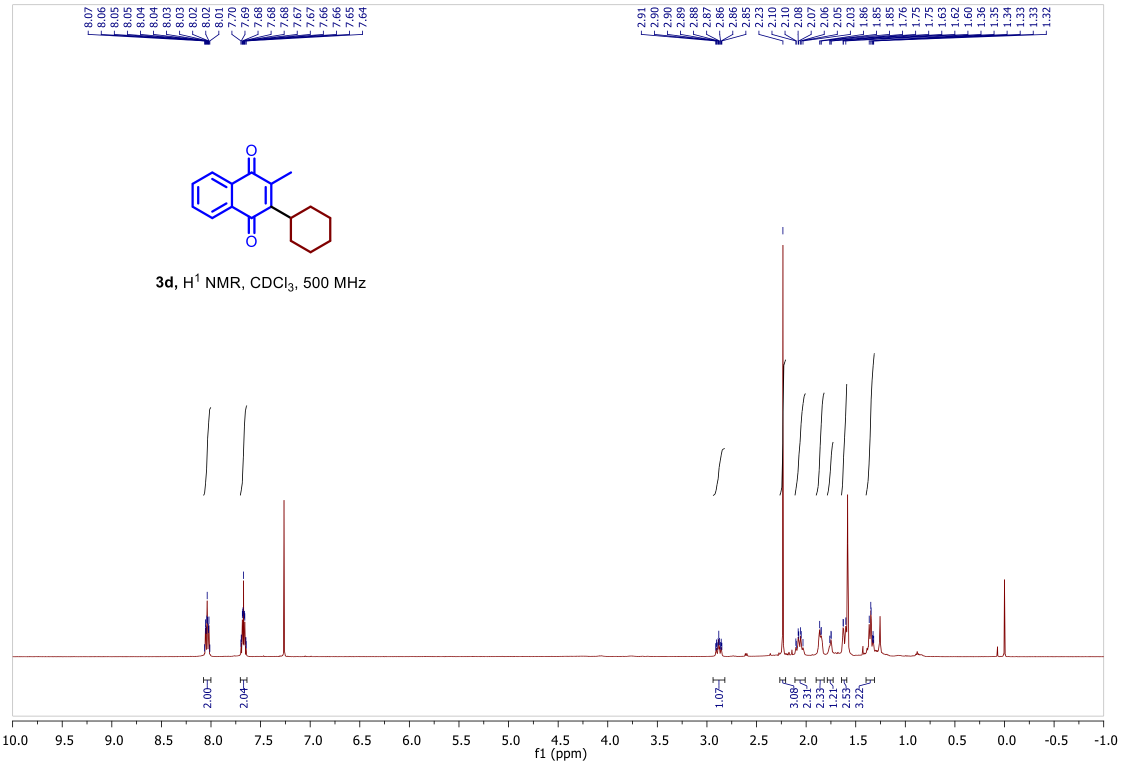
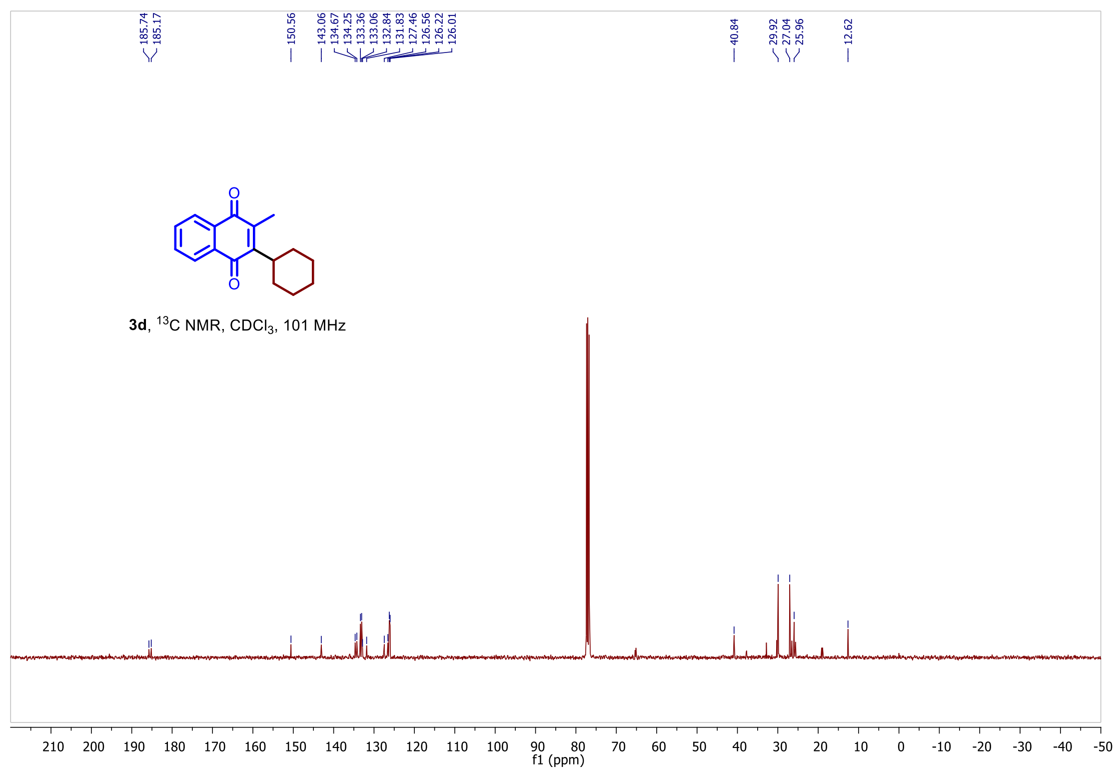
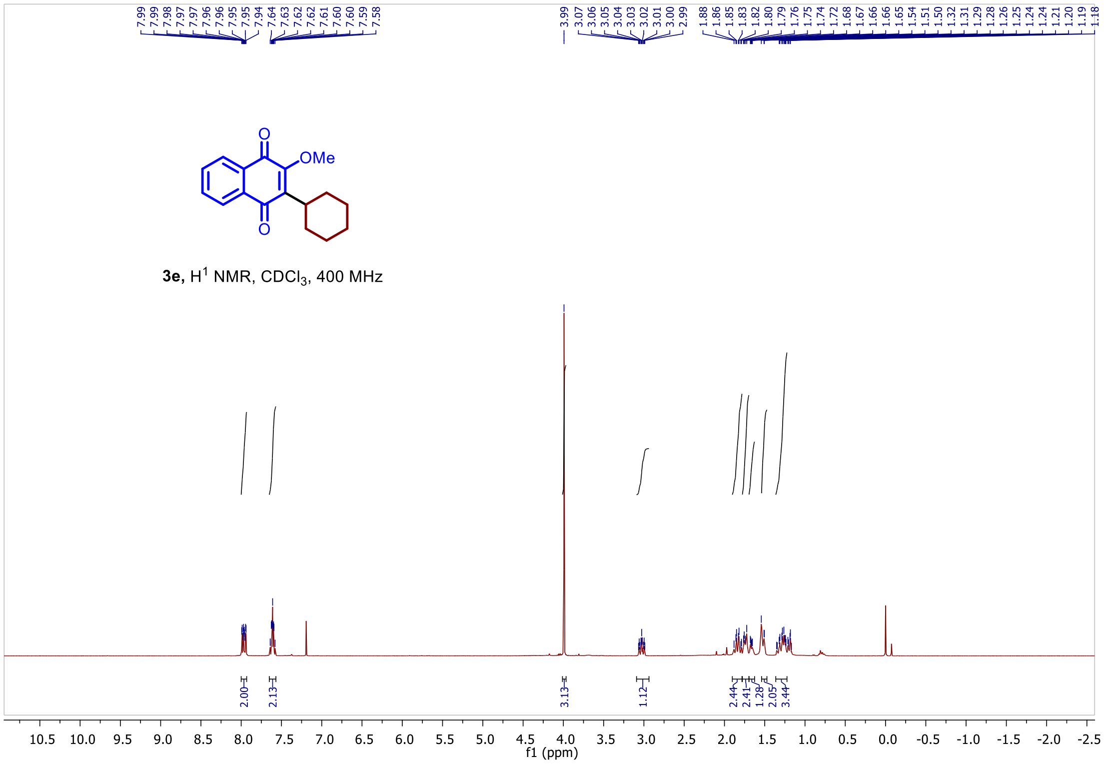
-10
-20
f1 (ppm)

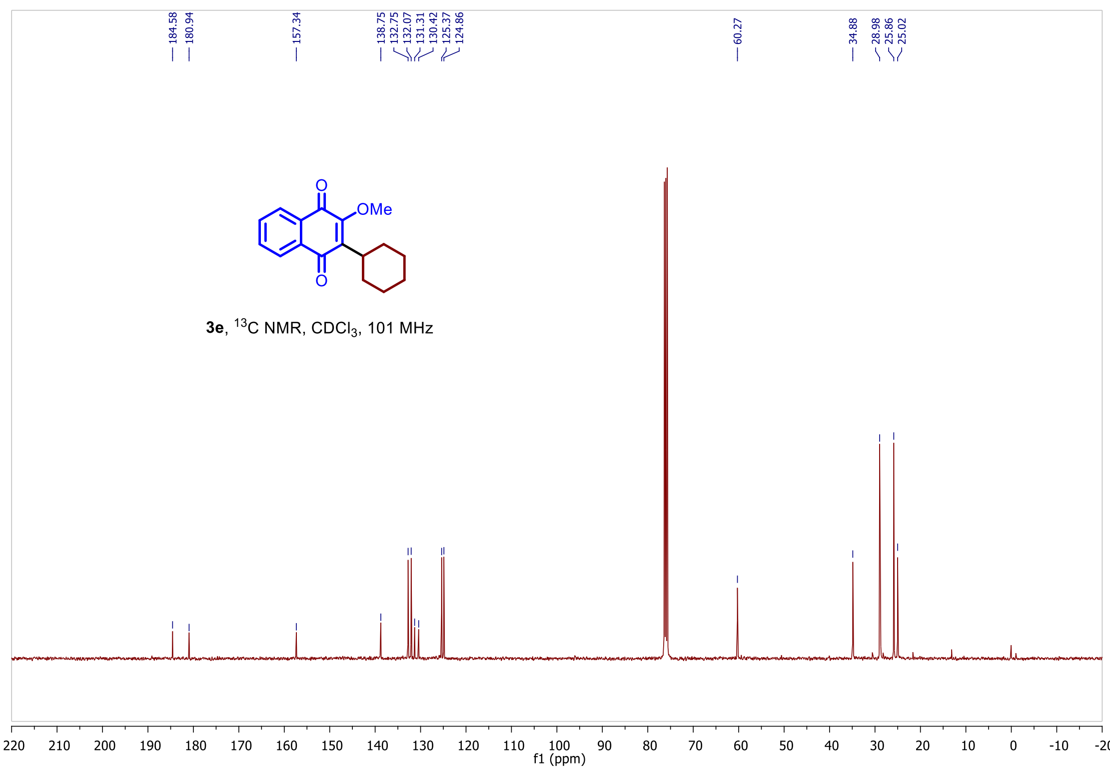


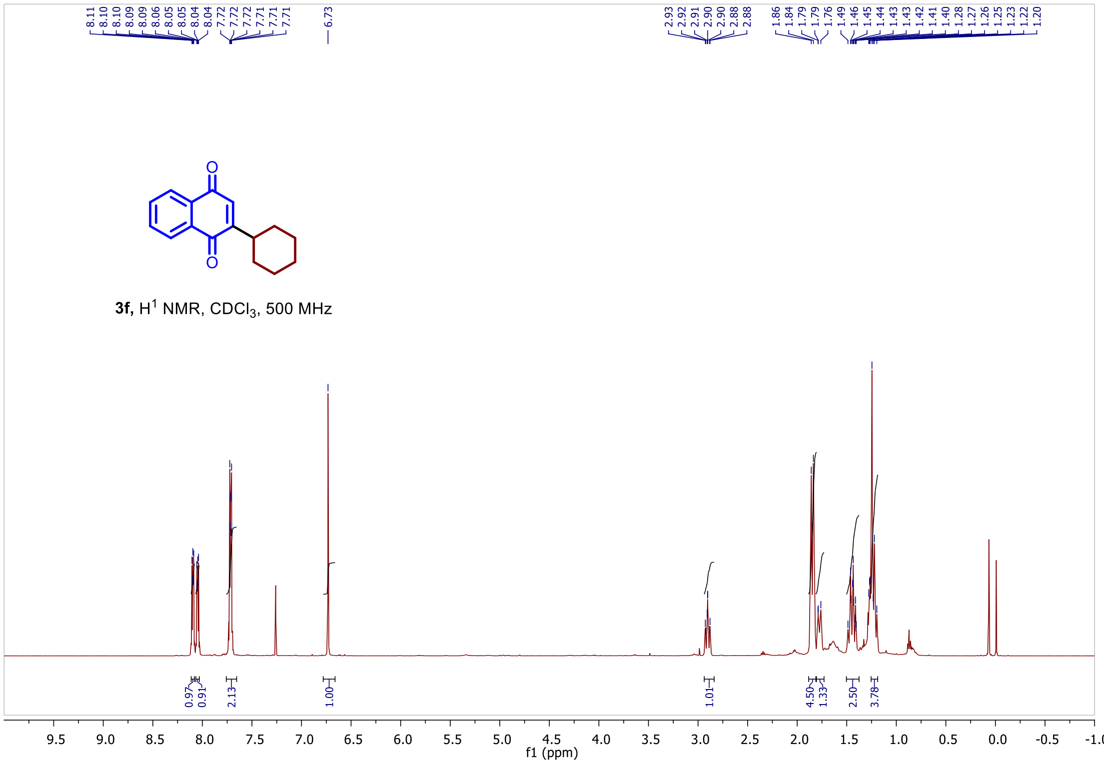
3c, ^{19}F NMR, $CDCl_3$, 377 MHz


3d, H1 NMR, CDCl3, 500 MHz
f1 (ppm)

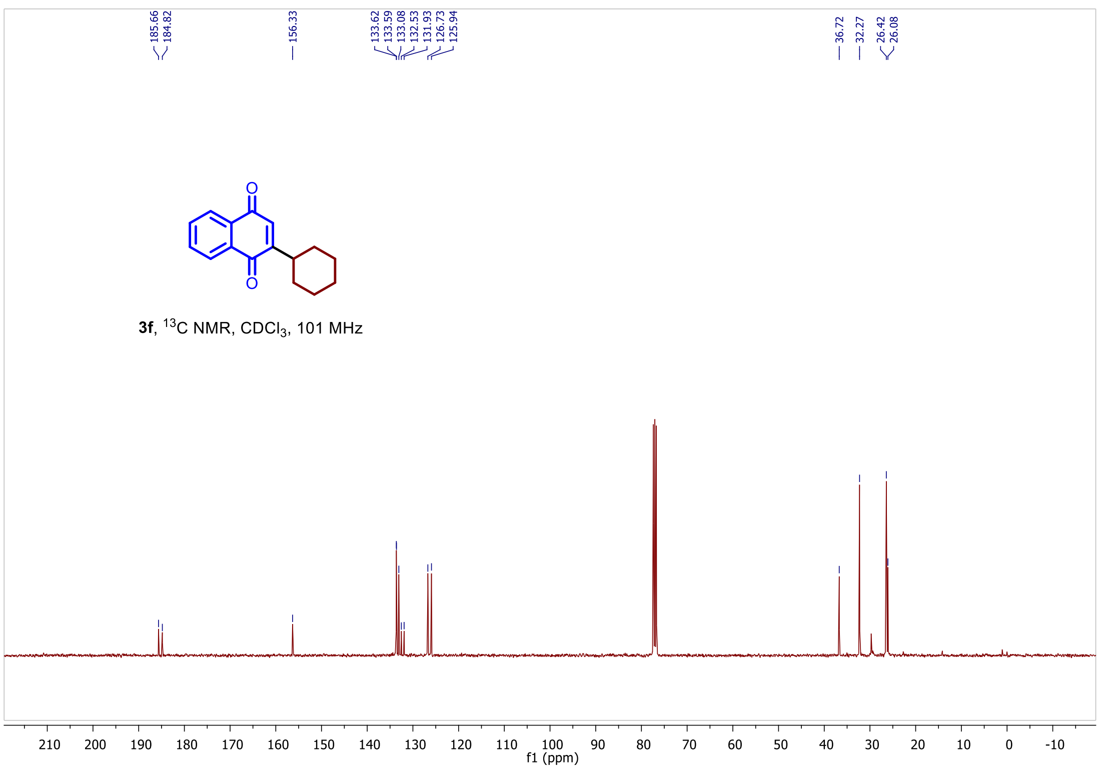

3d, 13C NMR, CDCl3, 101 MHz
f1 (ppm)


OMe
3e, H1 NMR, CDCl3, 400 MHz
f1 (ppm)

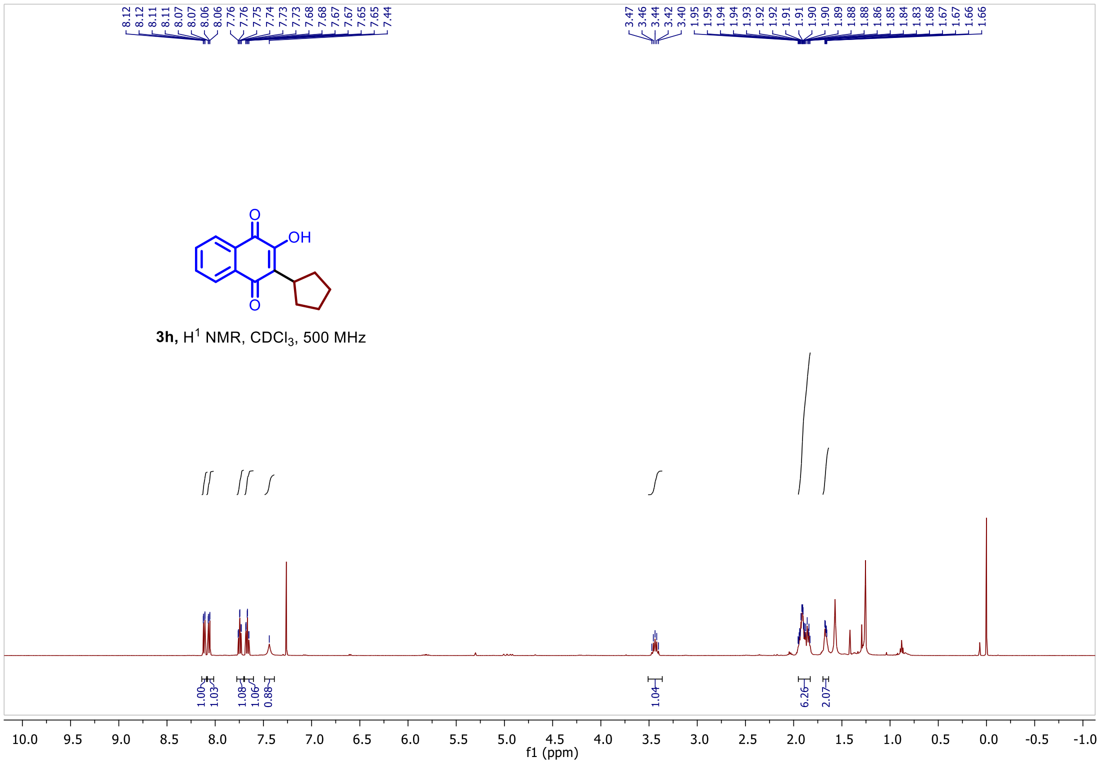

OMe
3e, 13C NMR, CDCl3, 101 MHz
f1 (ppm)

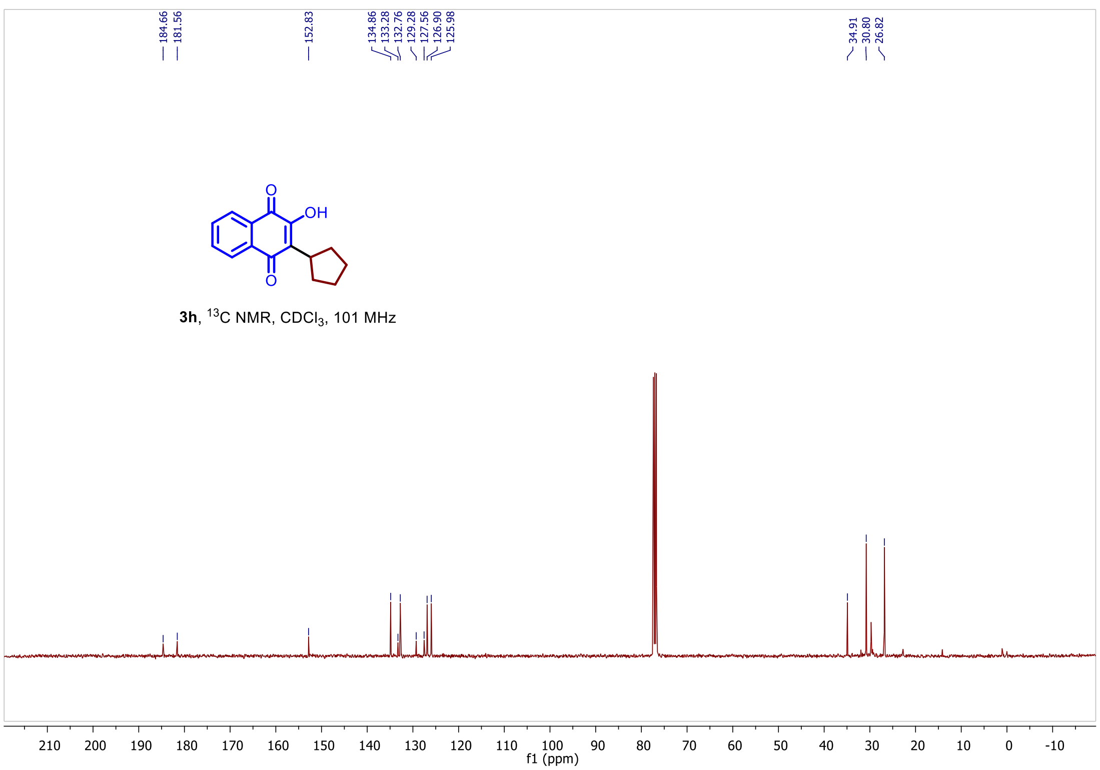


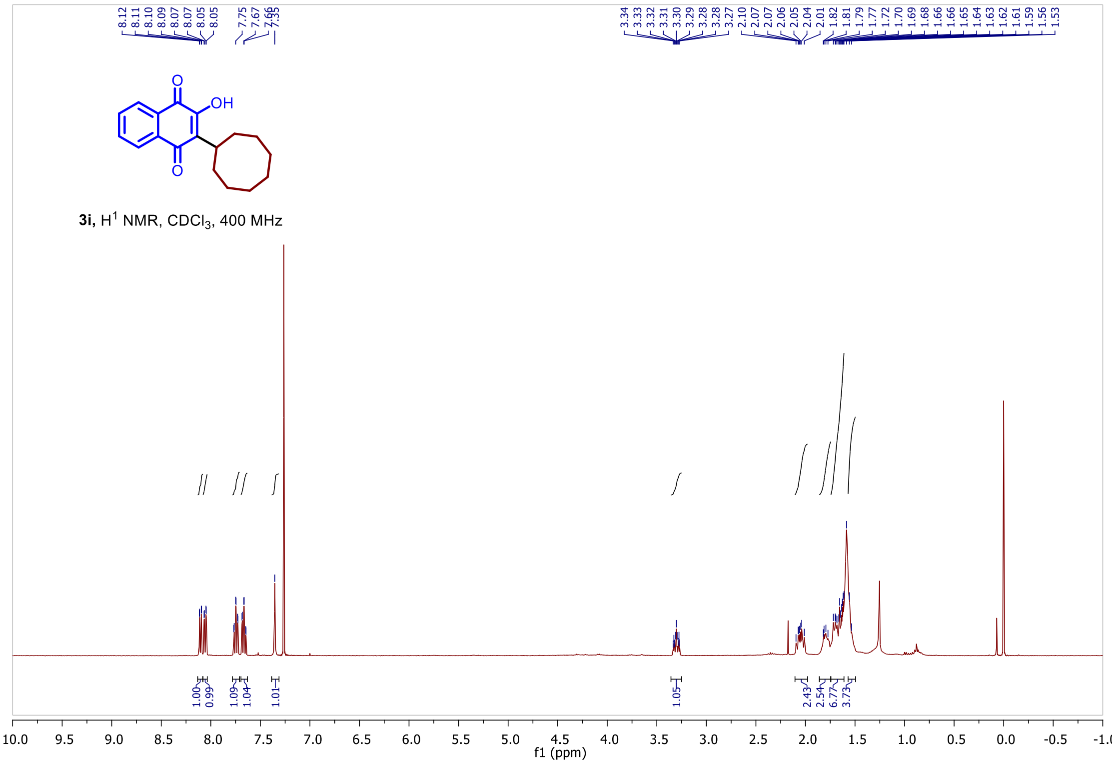
3f, H^1 NMR, $CDCl_3$, 500 MHz

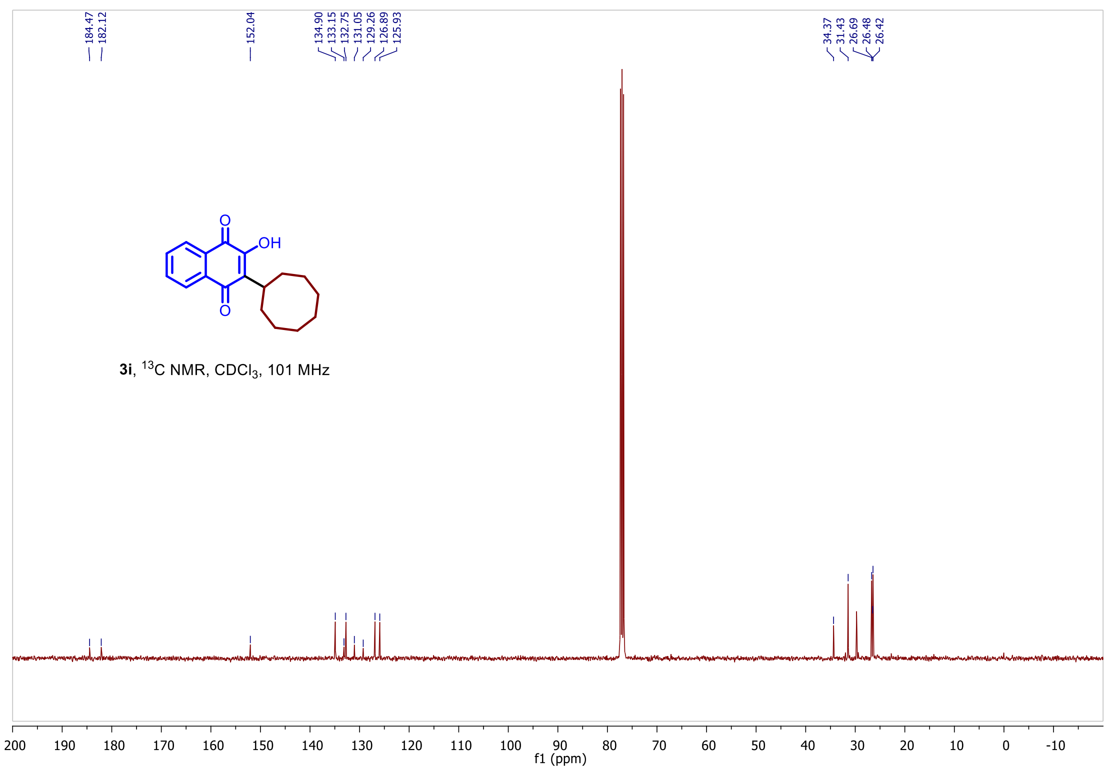


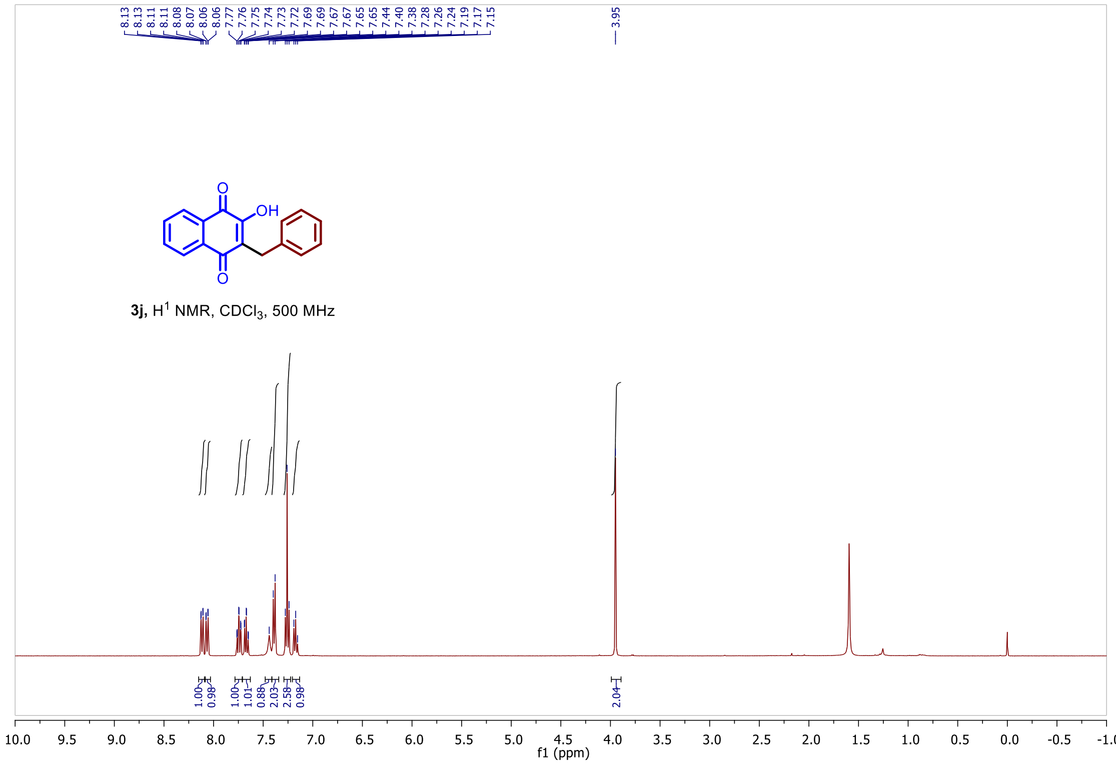
3f, ^{13}C NMR, $CDCl_3$, 101 MHz


3h, H1 NMR, CDCl3, 500 MHz
f1 (ppm)

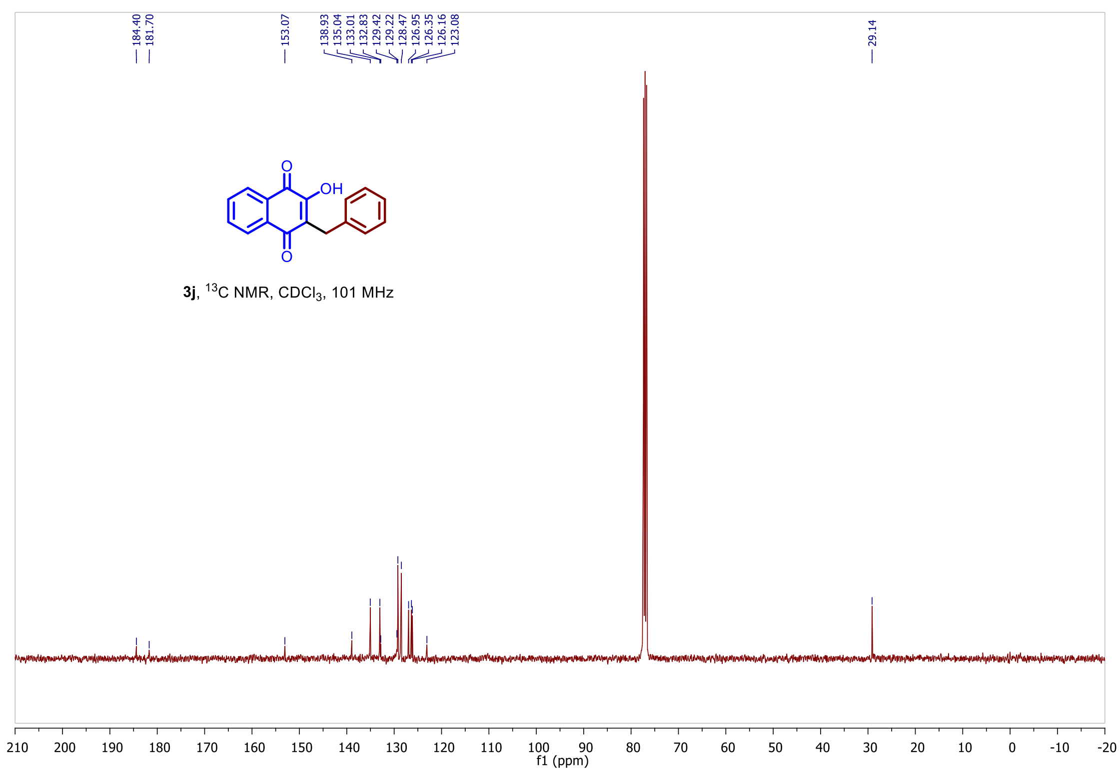

3h, 13C NMR, CDCl3, 101 MHz
f1 (ppm)


3i, H1 NMR, CDCl3, 400 MHz
f1 (ppm)

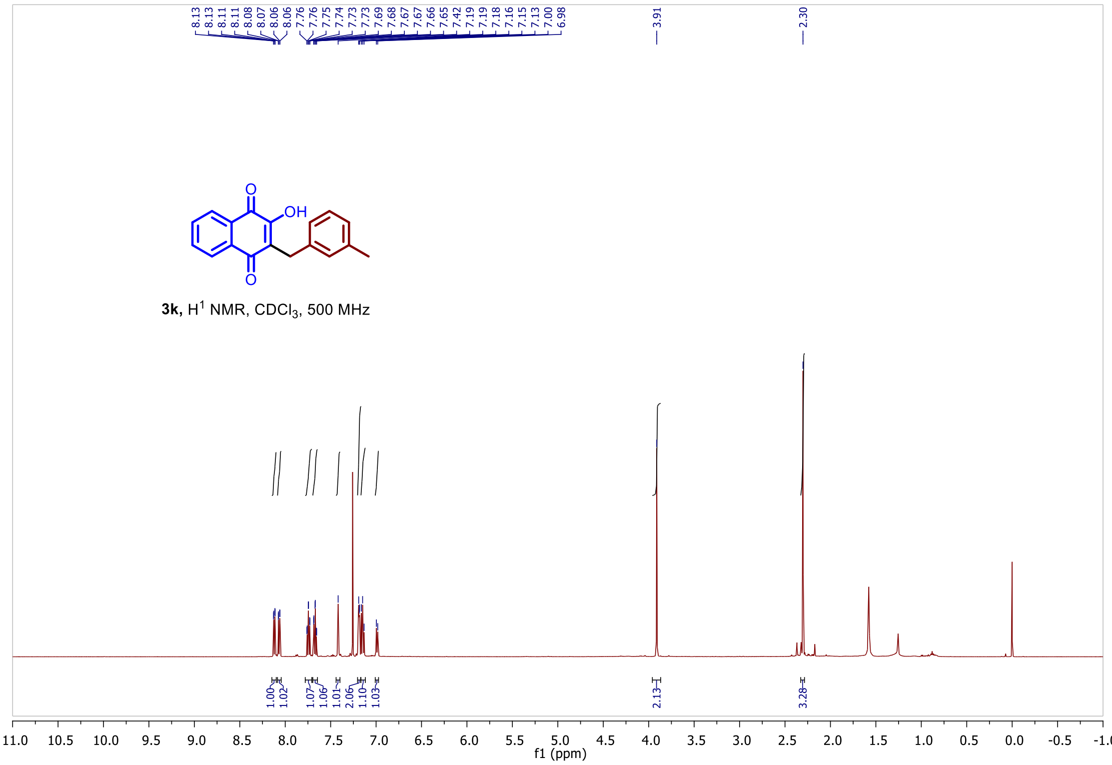

3i, 13C NMR, CDCl3, 101 MHz
f1 (ppm)

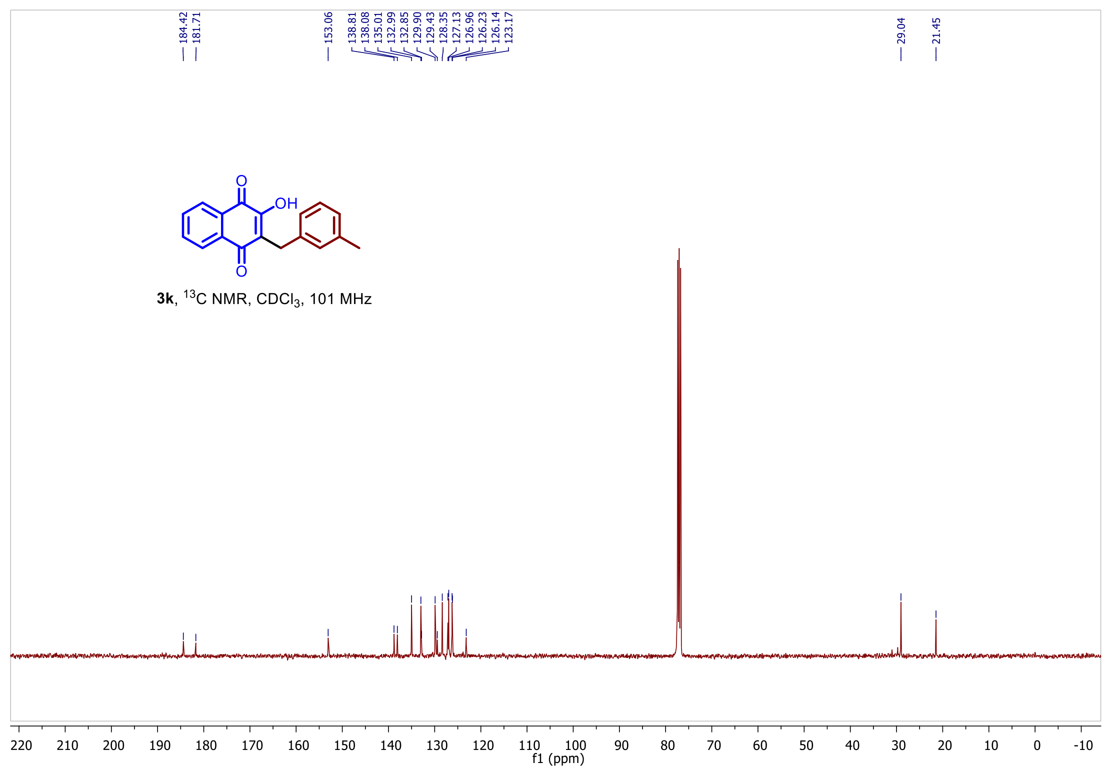


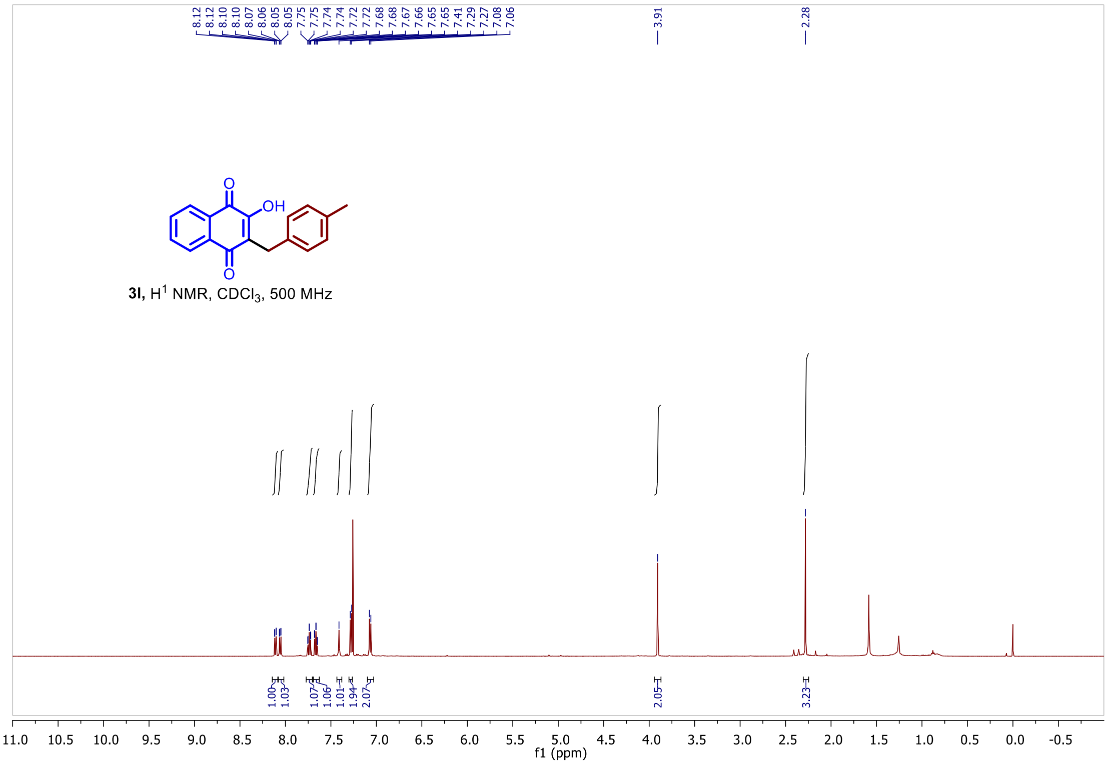
3j, H^1 NMR, $CDCl_3$, 500 MHz

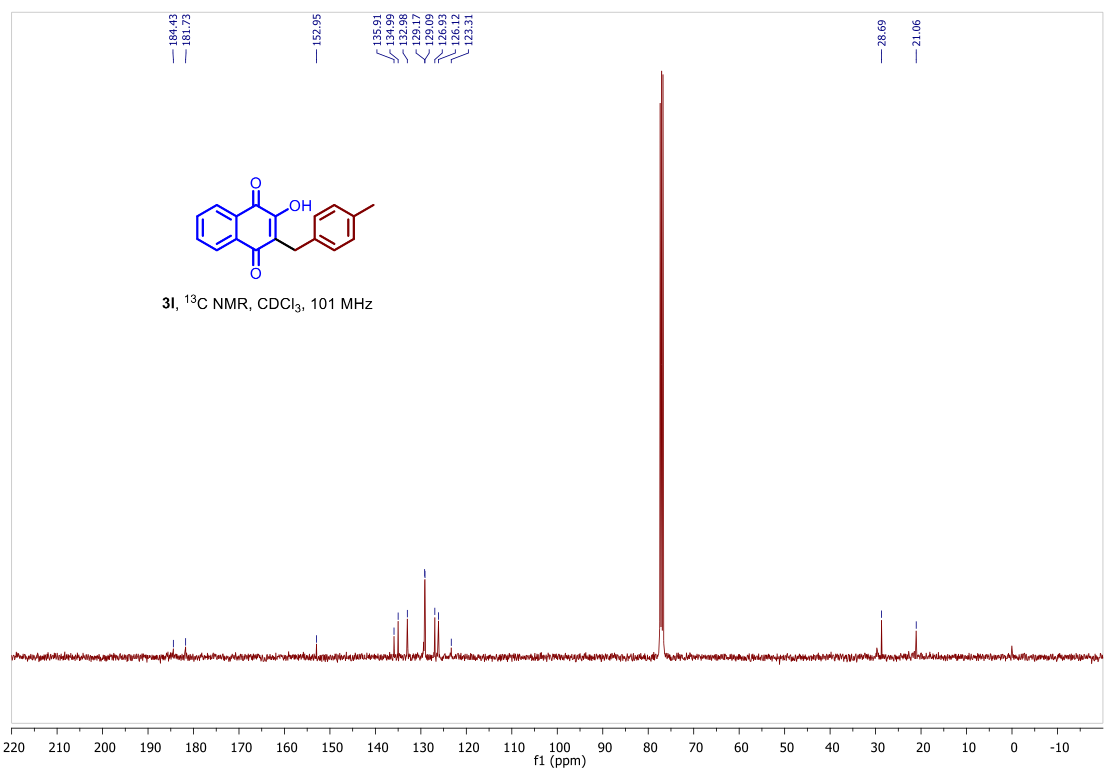


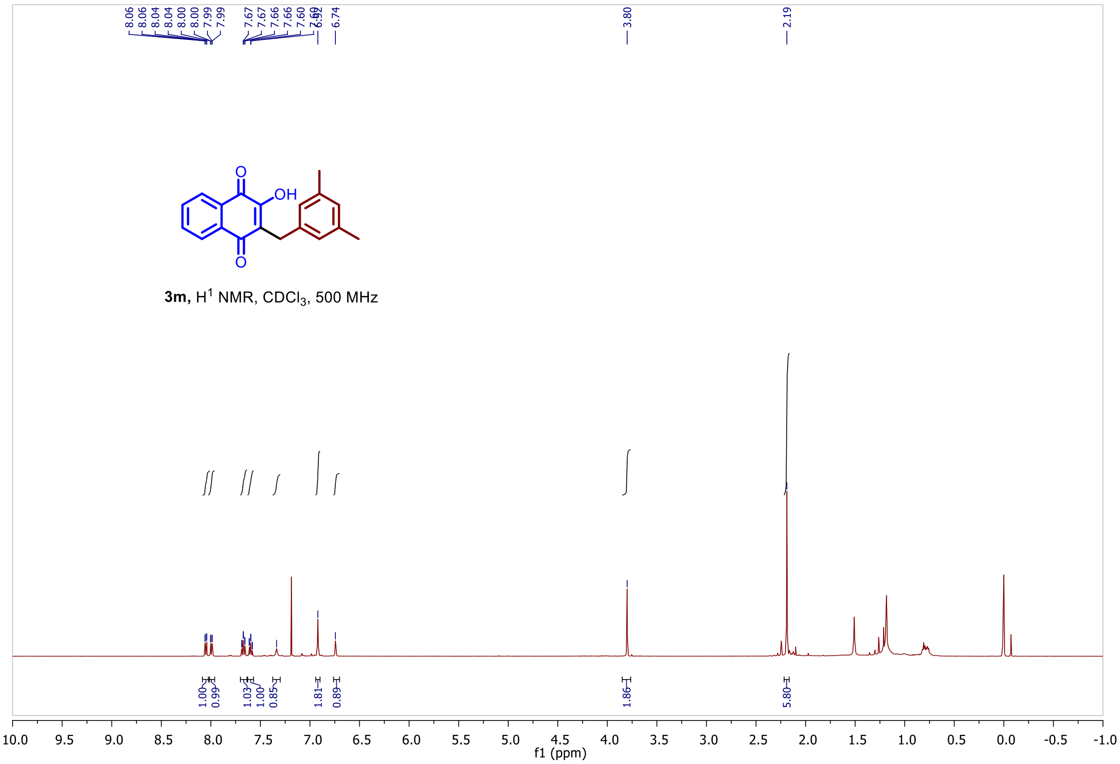
3j, ^{13}C NMR, $CDCl_3$, 101 MHz


3k, H1 NMR, CDCl3, 500 MHz
f1 (ppm)


3k, 13C NMR, CDCl3, 101 MHz
f1 (ppm)



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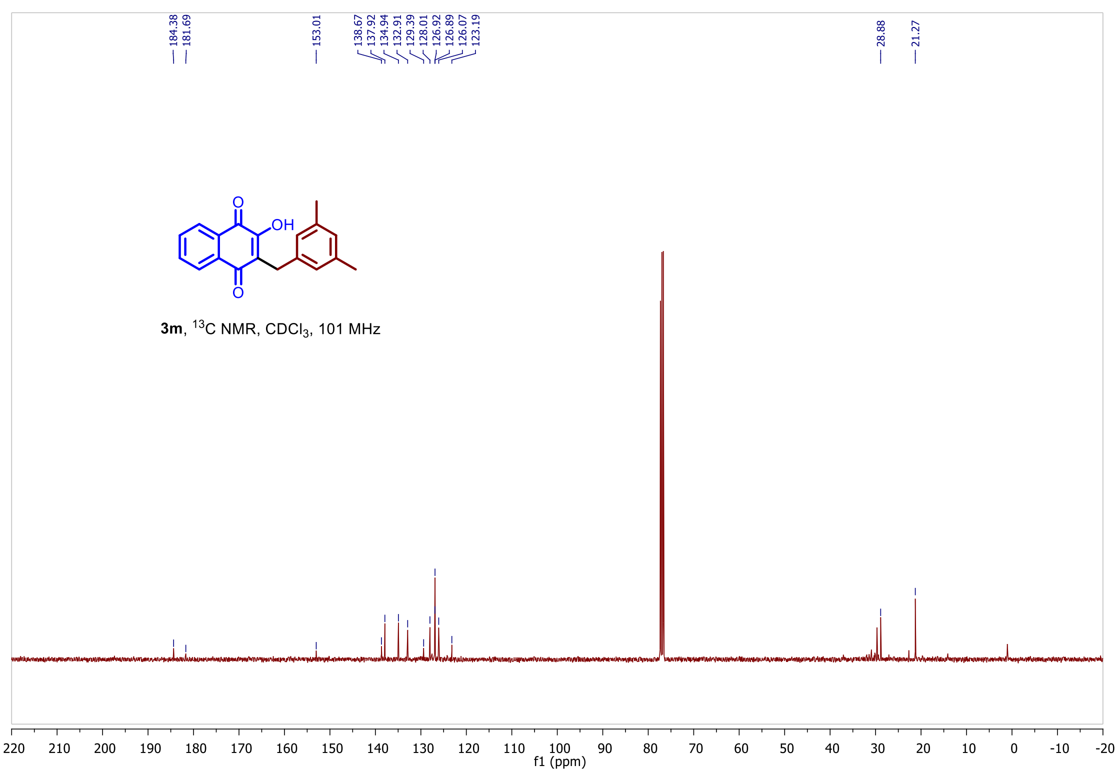
3.80
2.19
OH
O
O
3m, H1 NMR, CDCl3, 500 MHz
1.00 0.99 1.03 1.00 0.85 1.81 0.89
1.86
5.80
10.0 9.5 9.0 8.5 8.0 7.5 7.0 6.5 6.0 5.5 5.0 4.5 4.0 3.5 3.0 2.5 2.0 1.5 1.0 0.5 0.0 -0.5 -1.0
f1 (ppm)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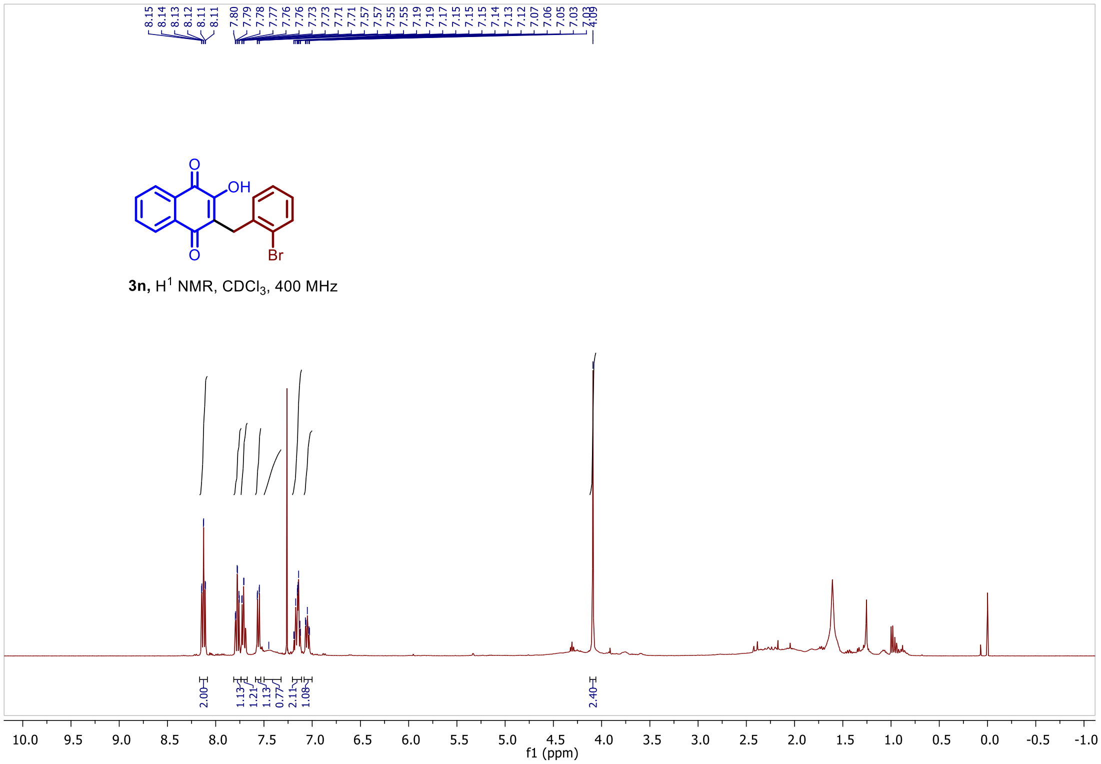
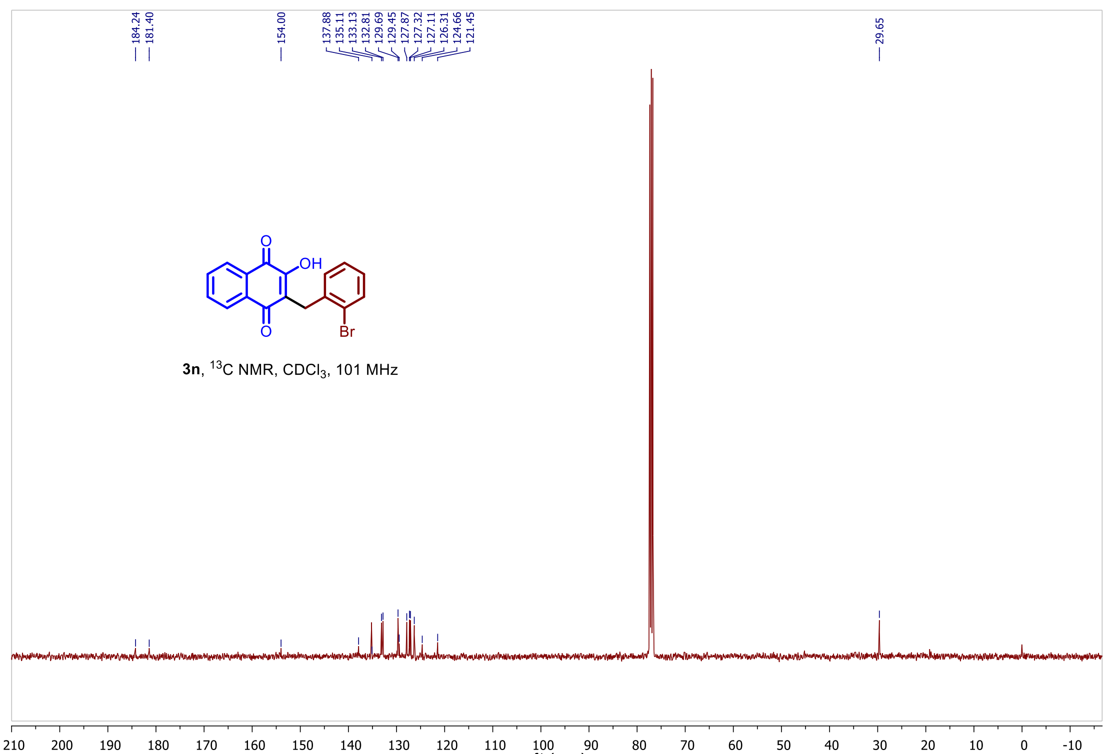
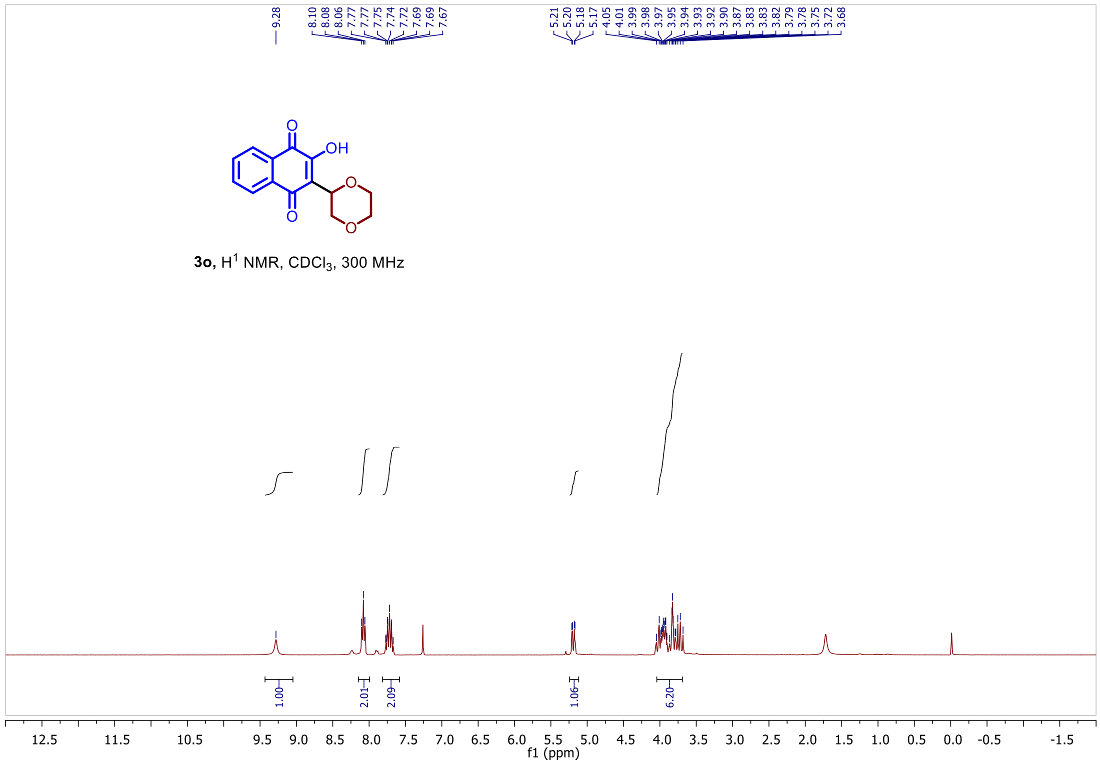
153.01
138.67 137.92 134.94 132.91 129.39 128.01 126.92 126.89 126.07 123.19
28.88
21.27
OH
O
O
3m, 13C NMR, CDCl3, 101 MHz
220 210 200 190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 -10 -20
f1 (ppm)



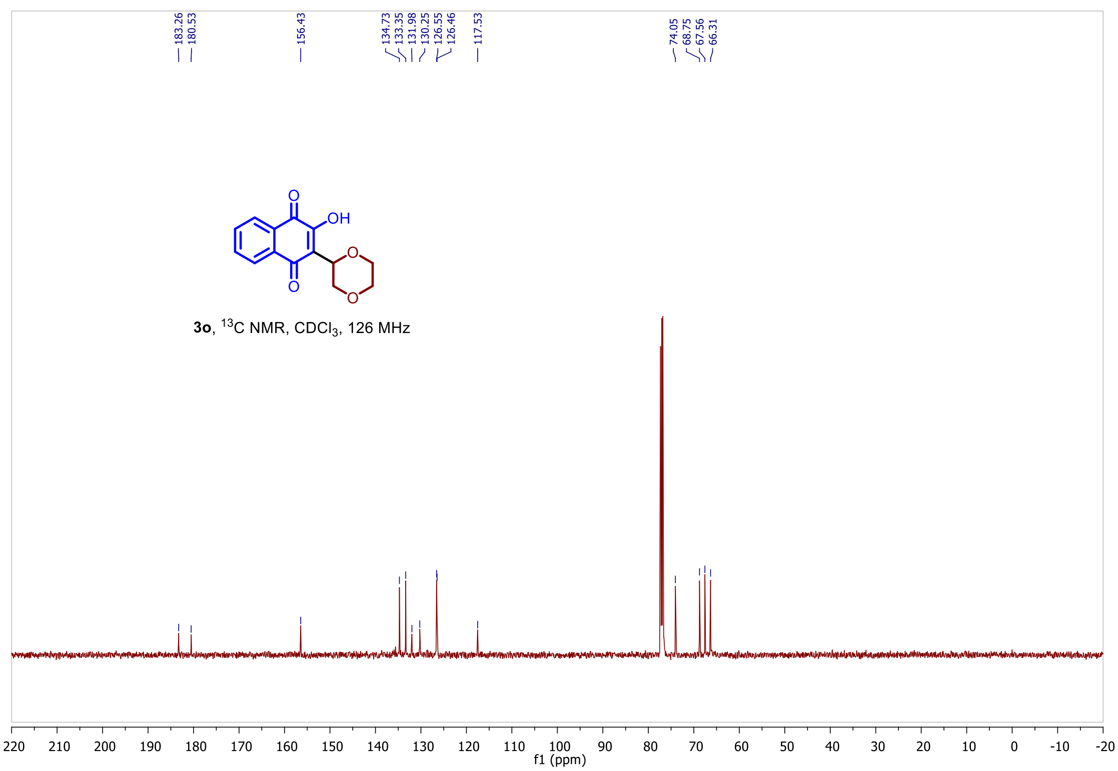
3n, H[1] NMR, $CDCl_3$, 400 MHz



3n, ^{13}C NMR, $CDCl_3$, 101 MHz



3o, H[1] NMR, $CDCl_3$, 300 MHz



3o, ^{13}C NMR, $CDCl_3$, 126 MHz

