Design, synthesis and biological evaluation of novel 2-hydroxy-1*H*-indene-1,3(2*H*)-dione derivatives as FGFR1 inhibitors

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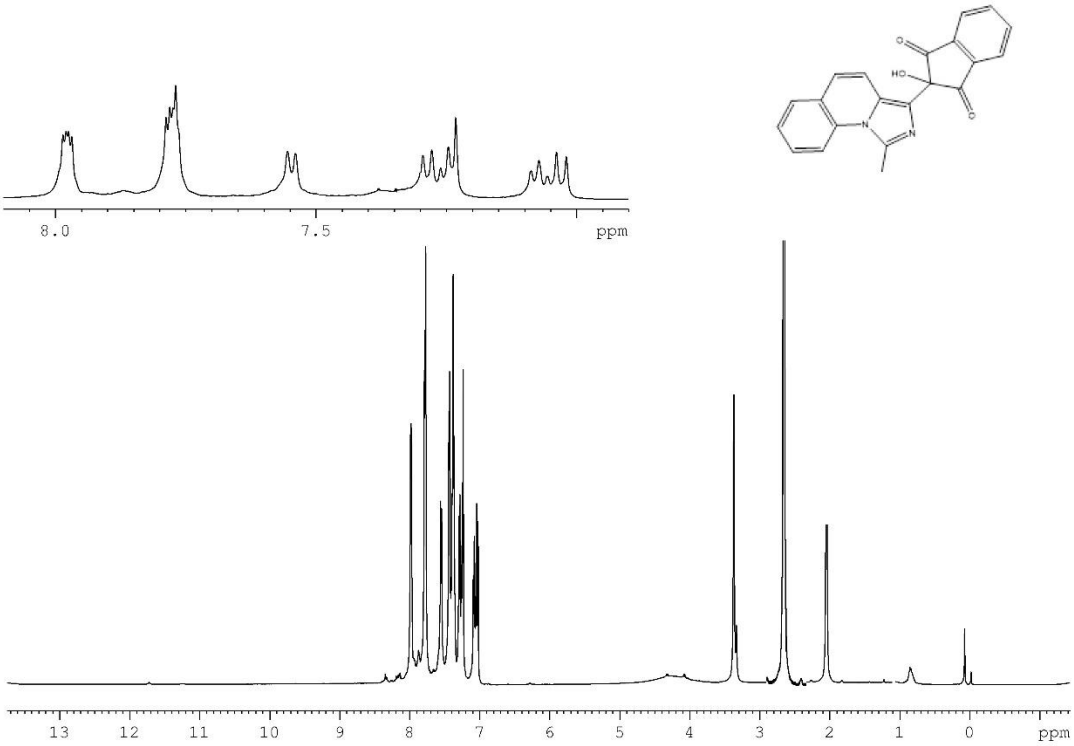
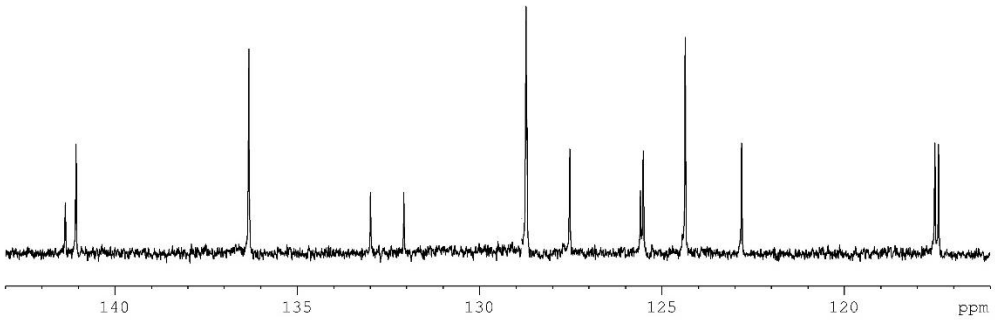
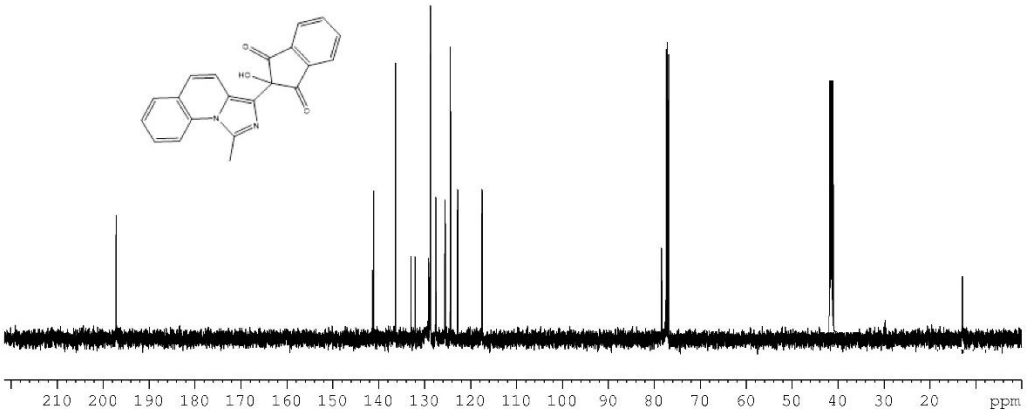
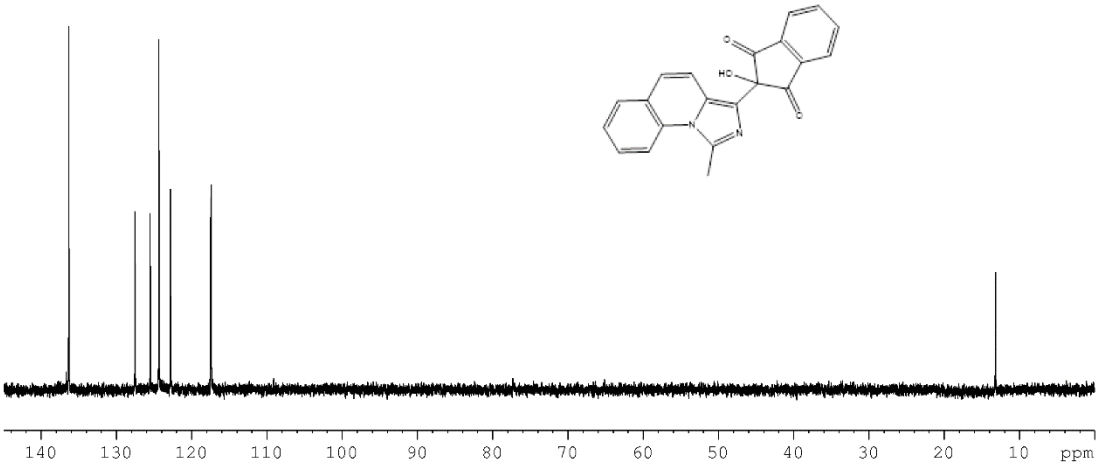
SPECTRA

2-hydroxy-2-(1-methylimidazo[1,5-a]quinolin-3-yl)-1H-indene-1,3(2H)-dione (7a)





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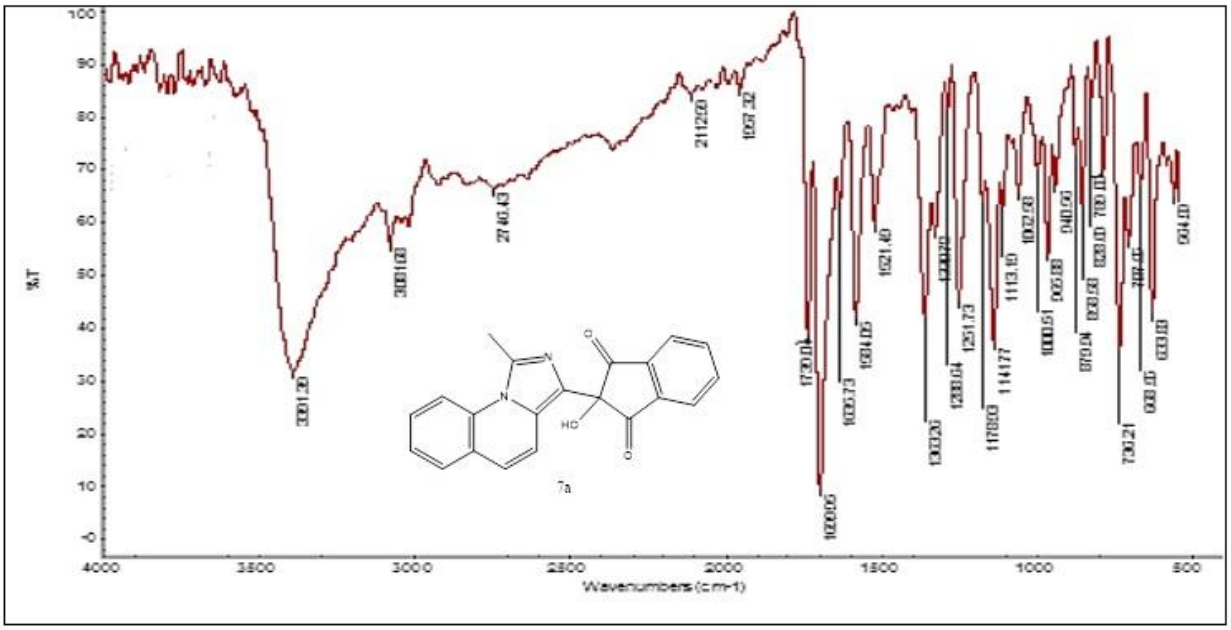
90
80
70
60
50
40
30
20
10
ppm


%T
Wavenumbers (cm-1)
4000
3500
3000
2500
2000
1500
1000
500
7a

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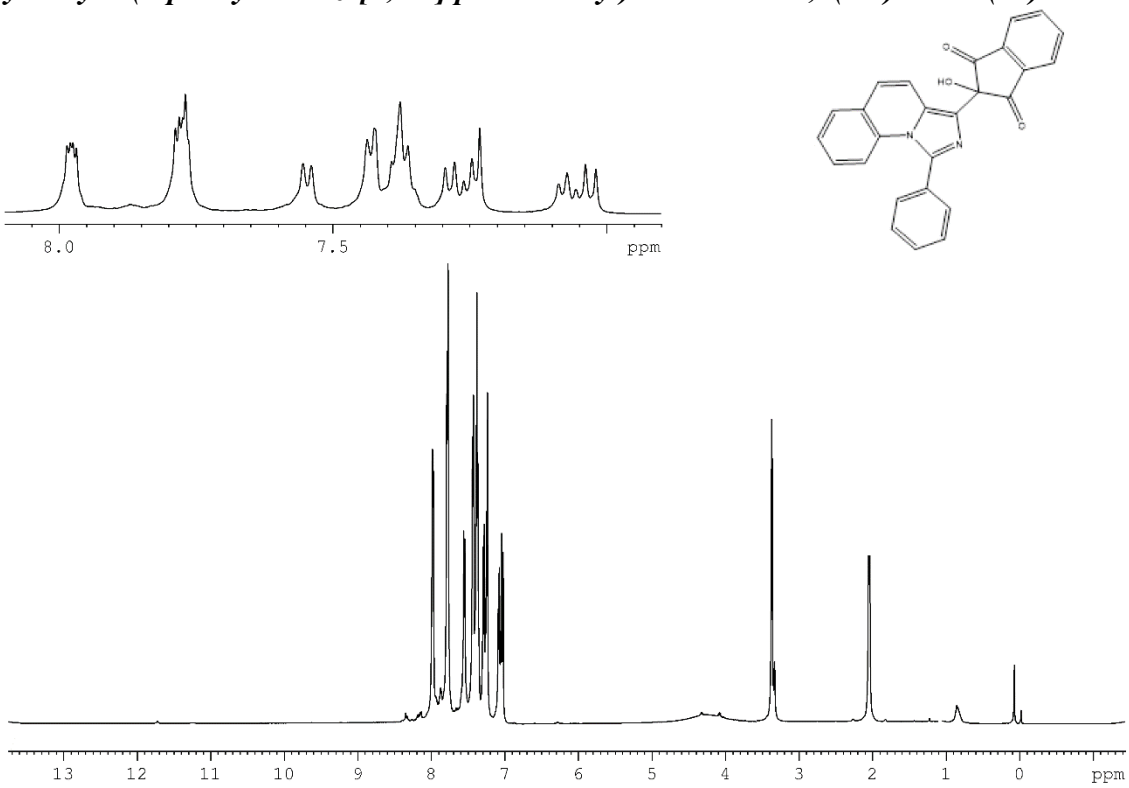

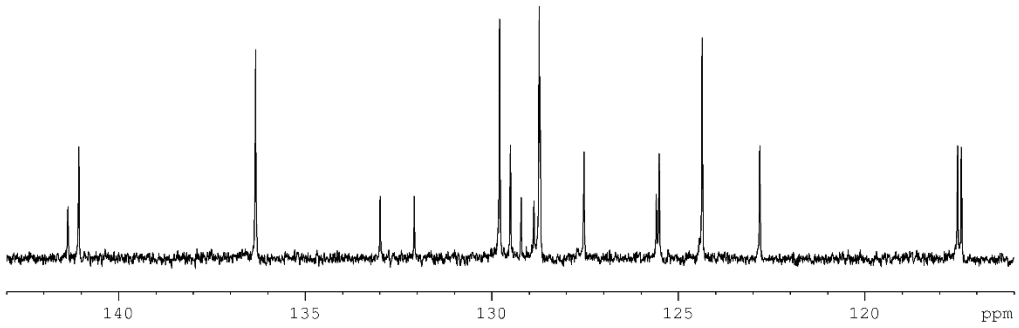

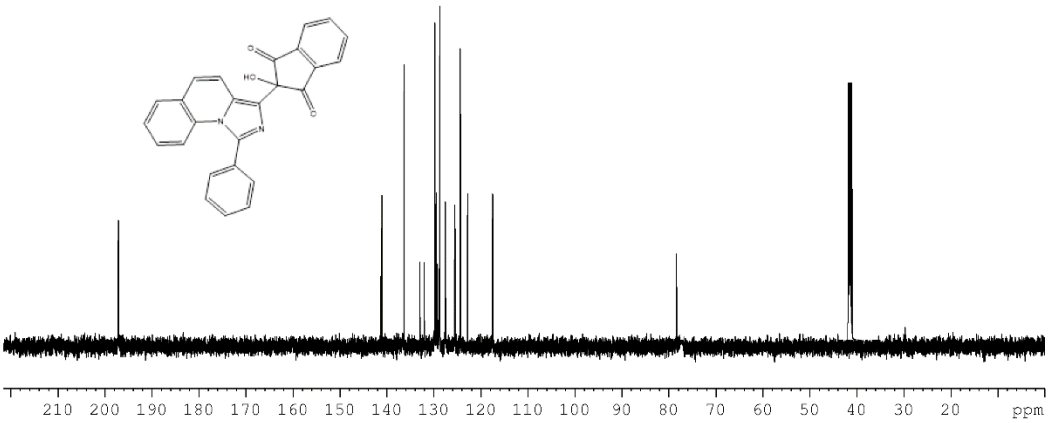

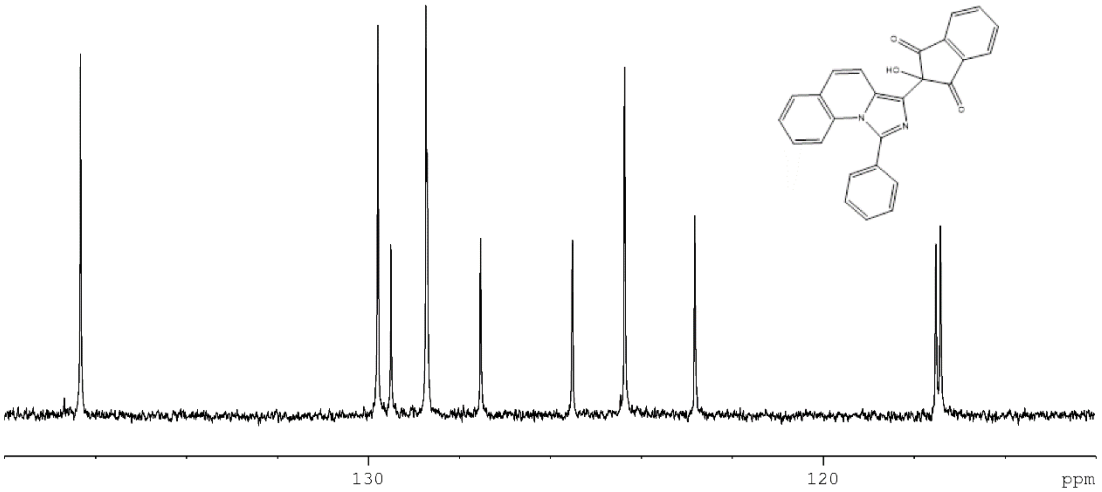
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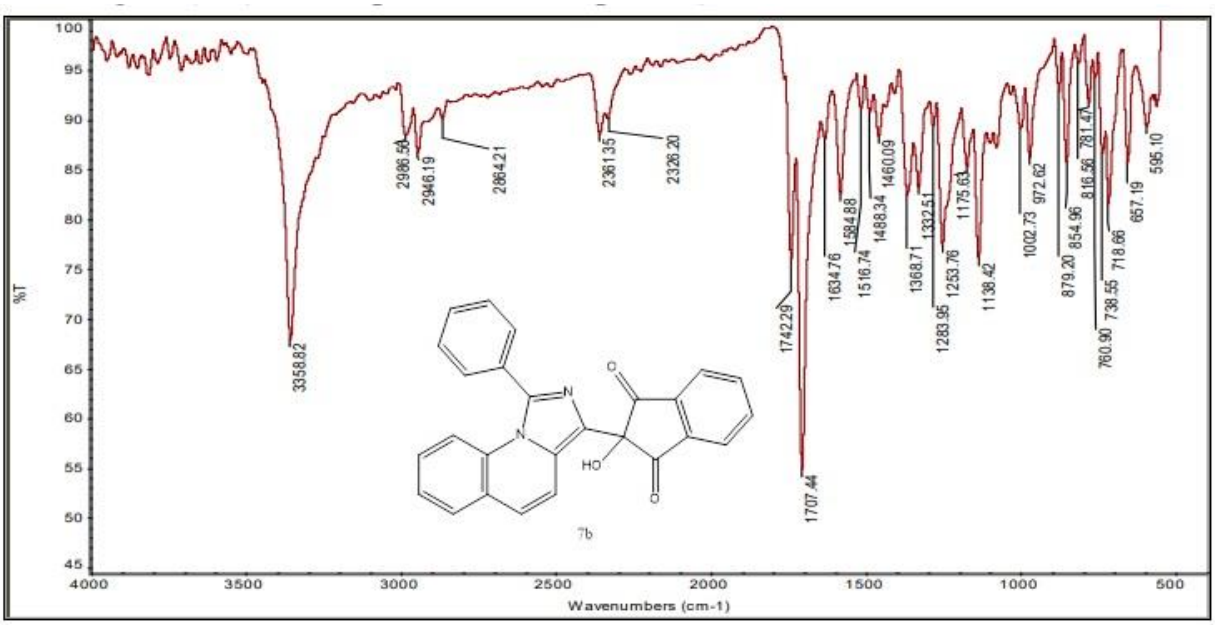
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Wavenumbers (cm-1)
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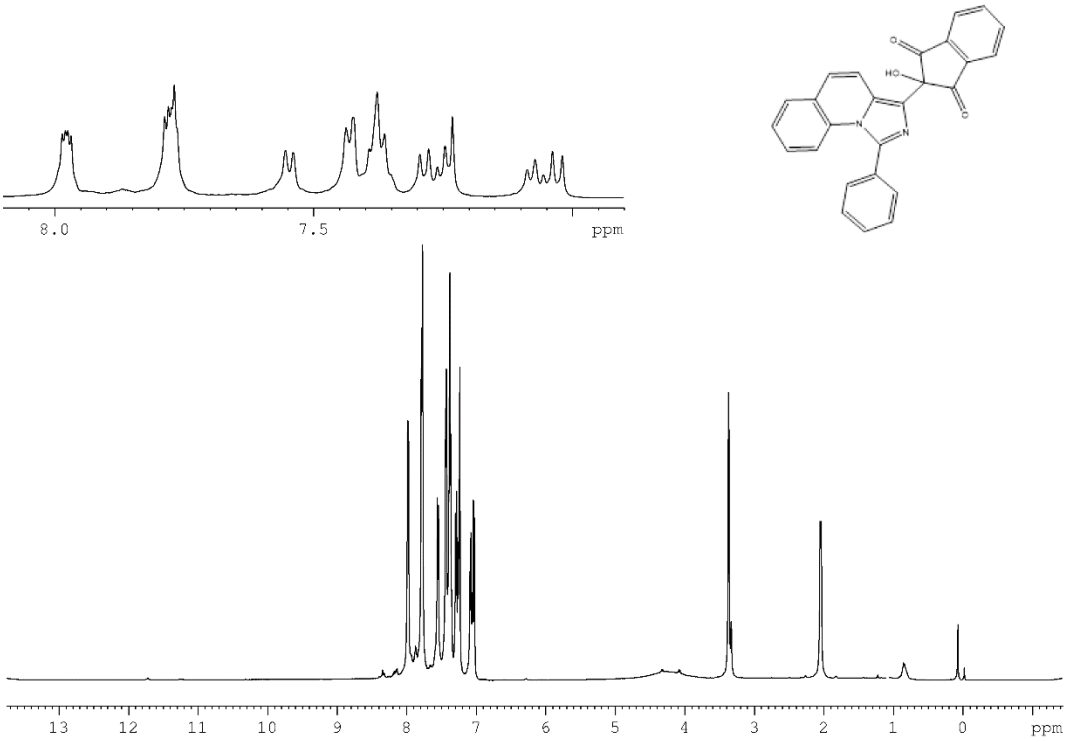
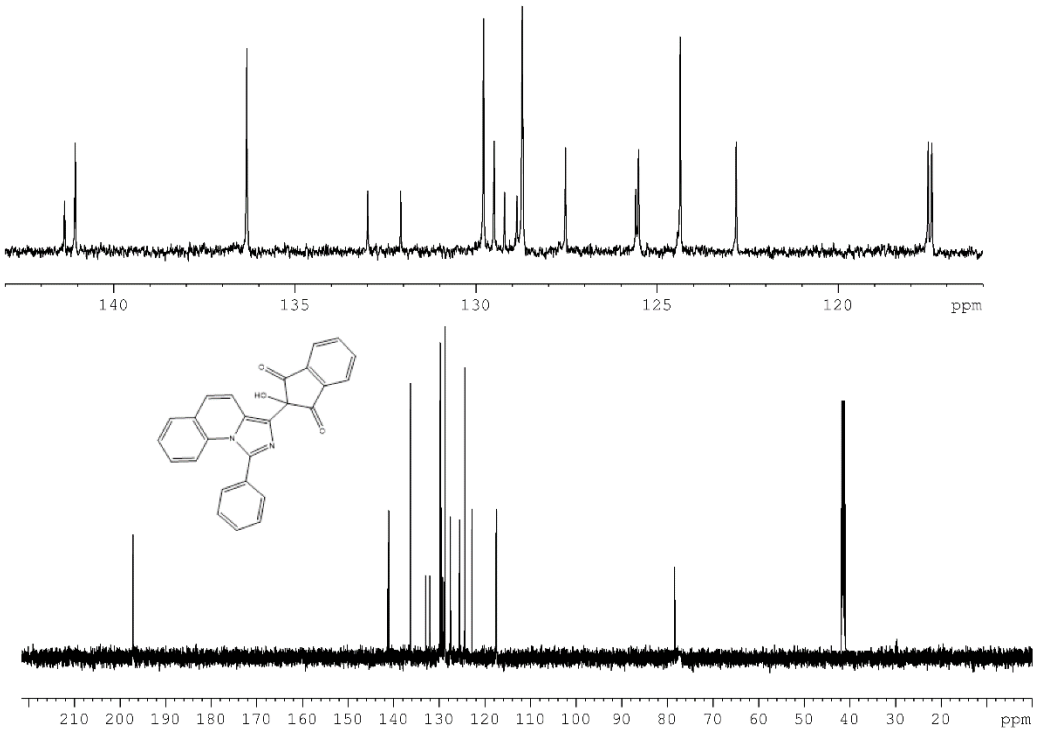
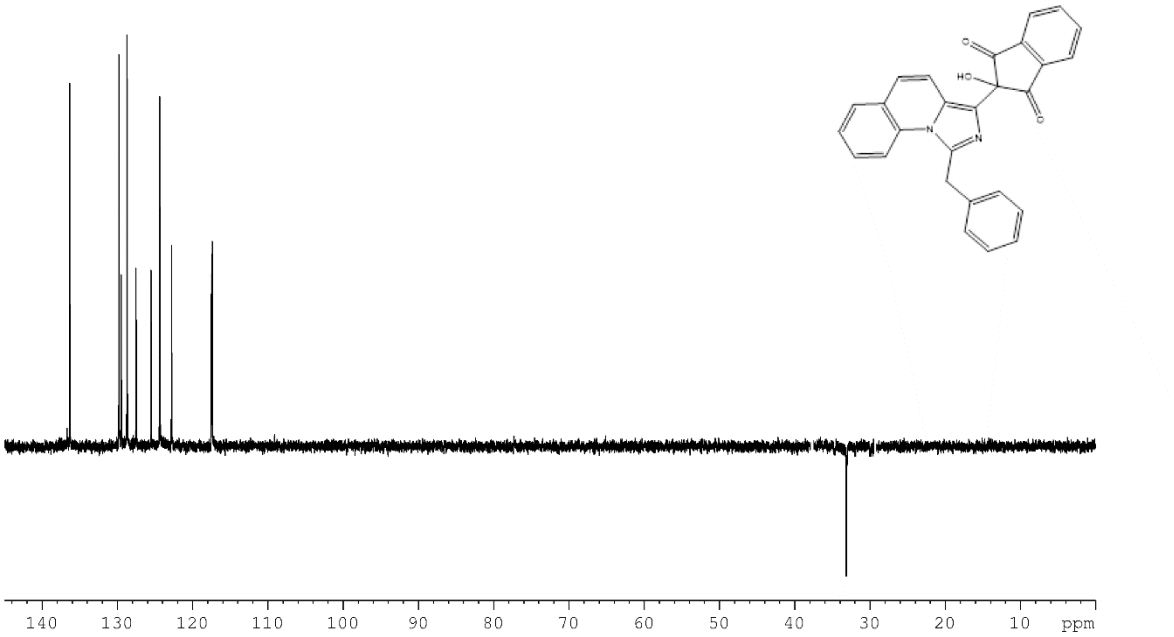
1707.44
1634.76
1584.88
1516.74
1488.34
1460.09
1368.71
1332.51
1283.95
1253.76
1175.63
1138.42
1002.73
972.62
879.20
854.96
816.56
781.47
760.90
738.55
718.66
657.19
595.10
7b

2-(1-benzylimidazo[1,5-a]quinolin-3-yl)-2-hydroxy-1H-indene-1,3(2H)-dione (7c)



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120
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100
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80
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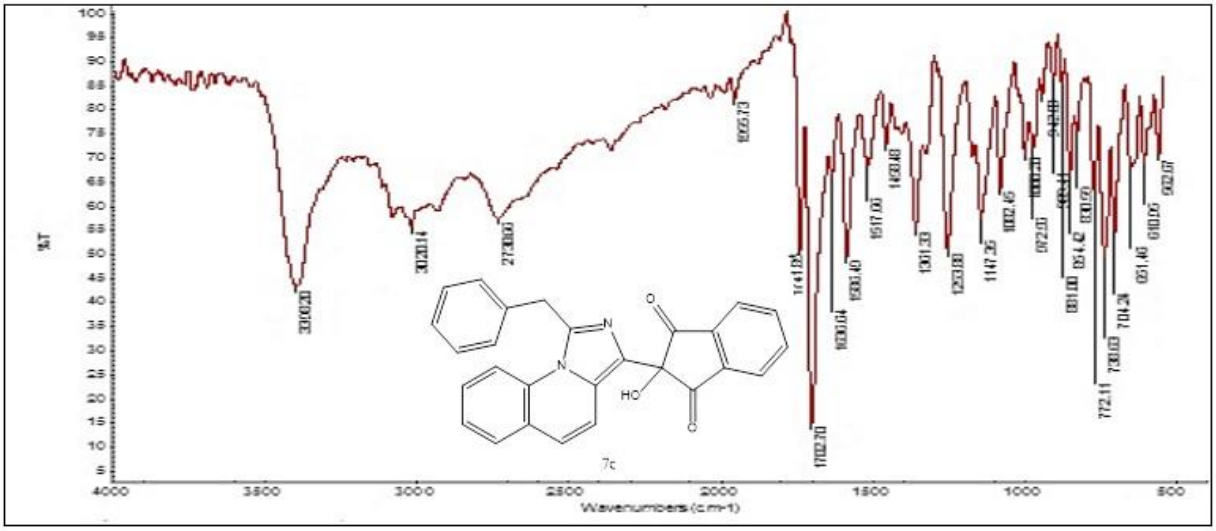
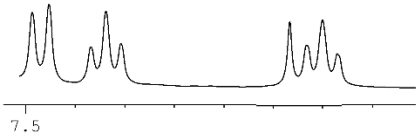
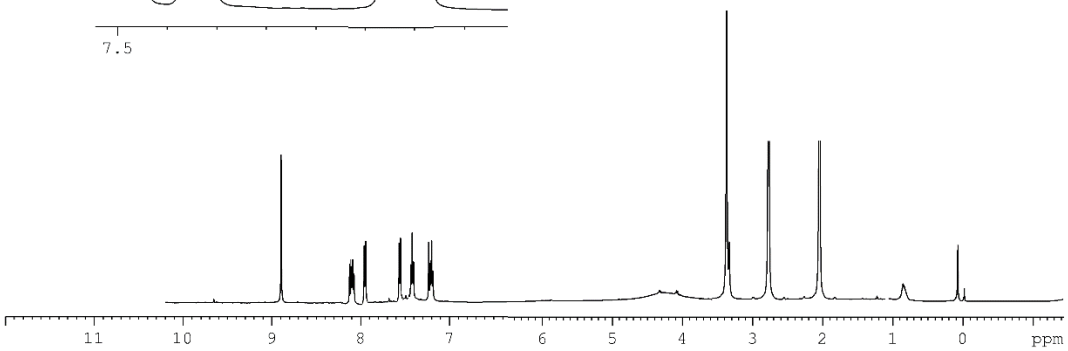
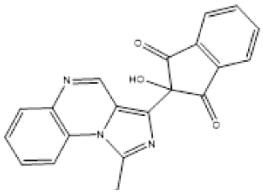
60
50
40
30
20
10
ppm

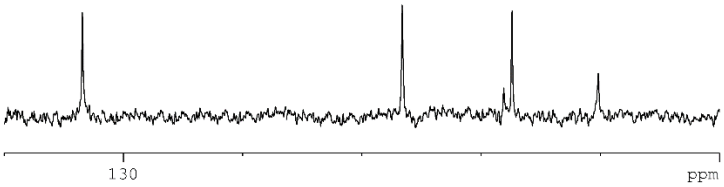

%T
Wavenumbers (cm-1)
7c

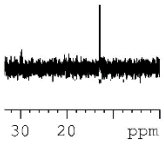
2-hydroxy-2-(1-methylimidazo[1,5-a]quinoxalin-3-yl)-1H-indene-1,3(2H)-dione (8a)

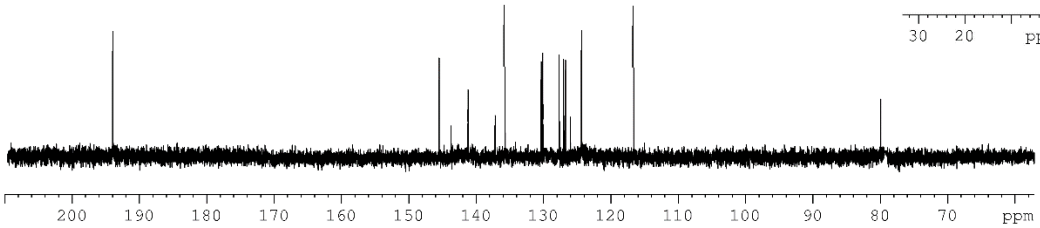


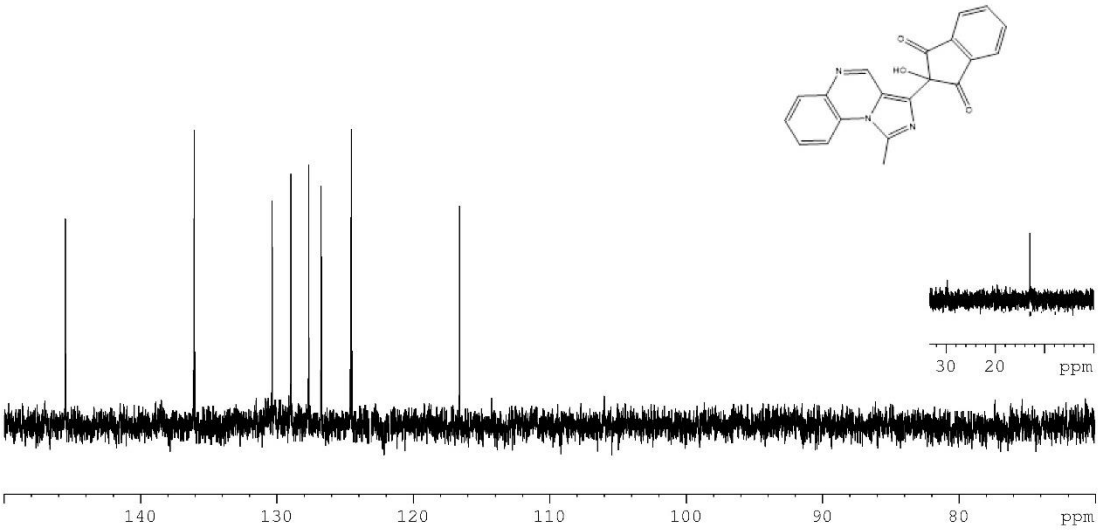








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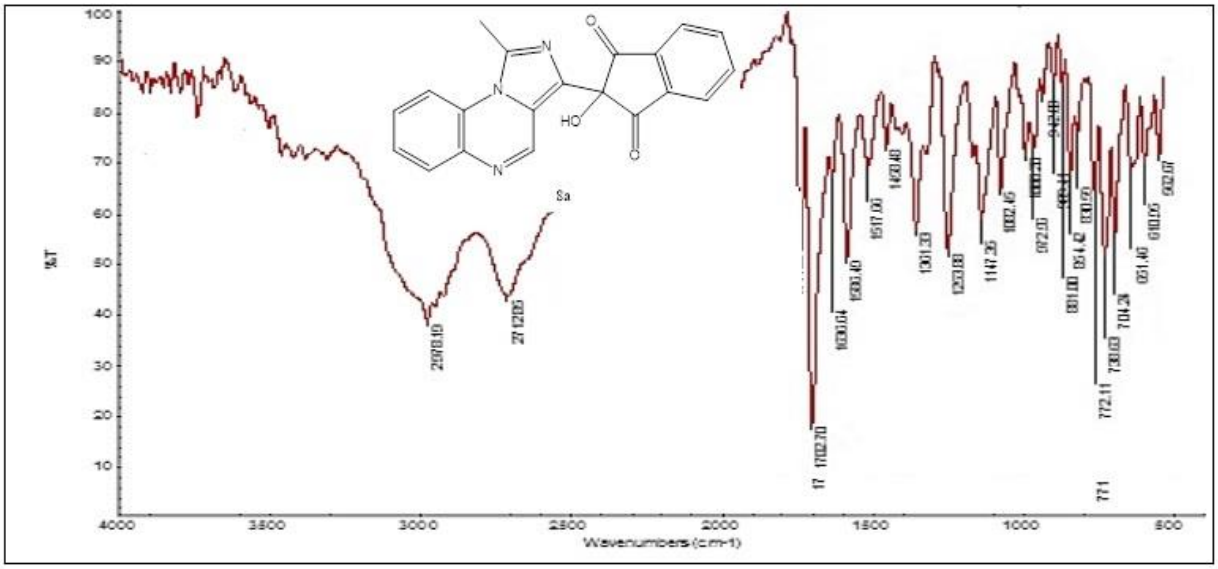
140 130 120 110 100 90 80 ppm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Wavenumbers (cm-1)
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1600.40
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1420.48
1301.33
1253.18
1147.29
1082.45
972.55
881.00
854.42
772.11
730.03
704.28
651.40
610.05
602.07
Sa

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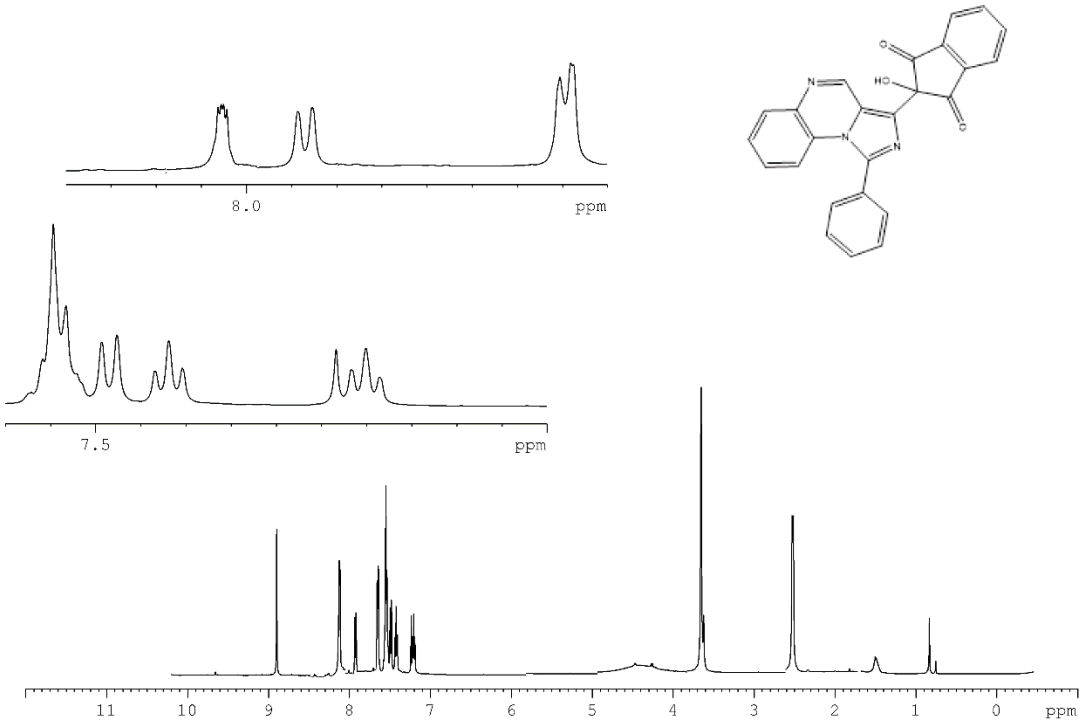

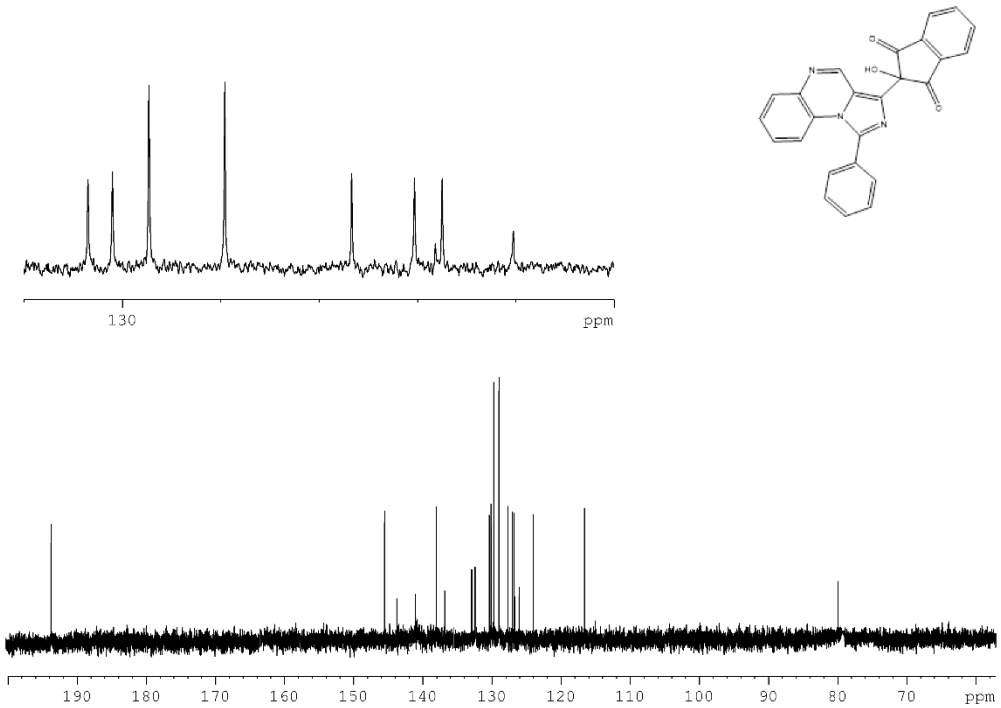

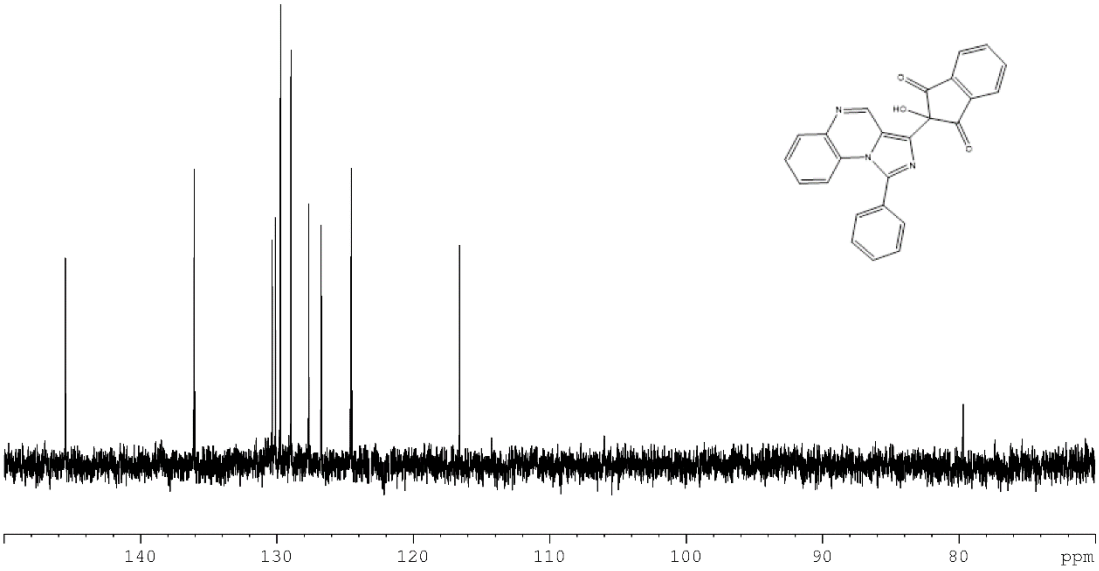
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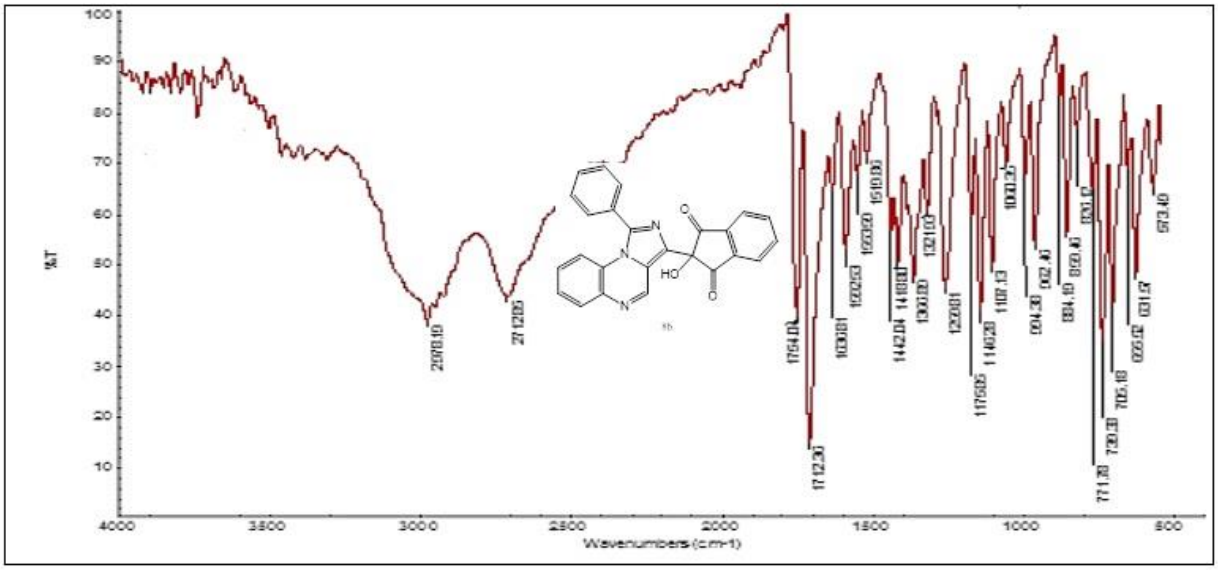
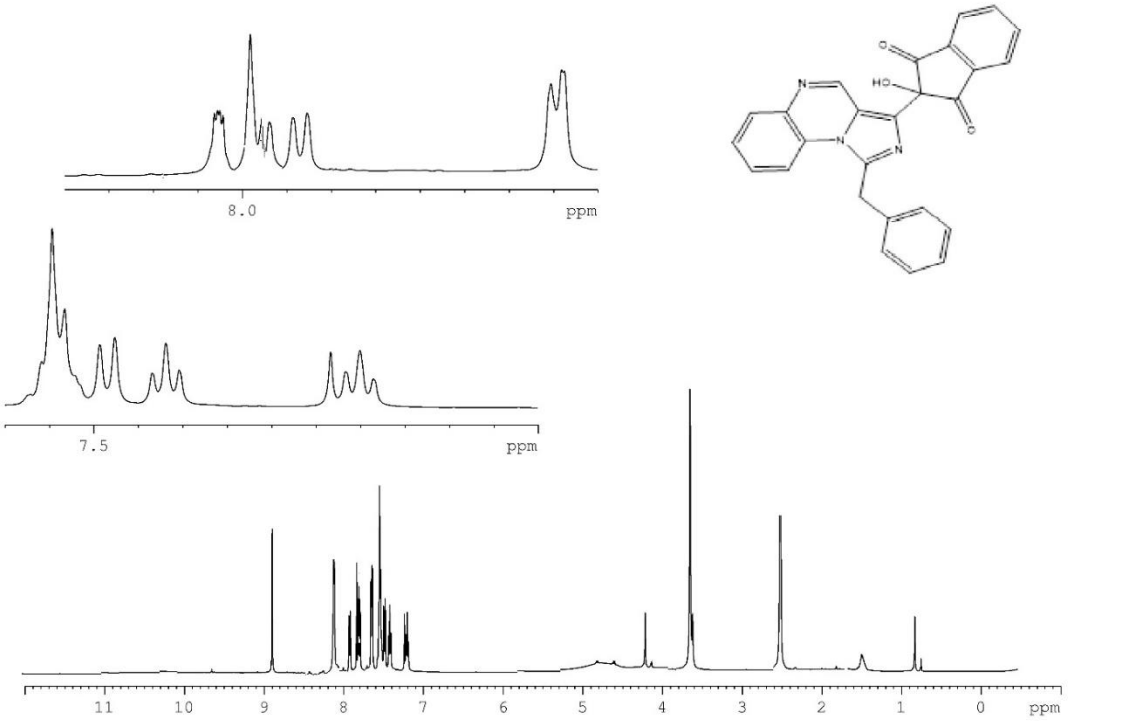
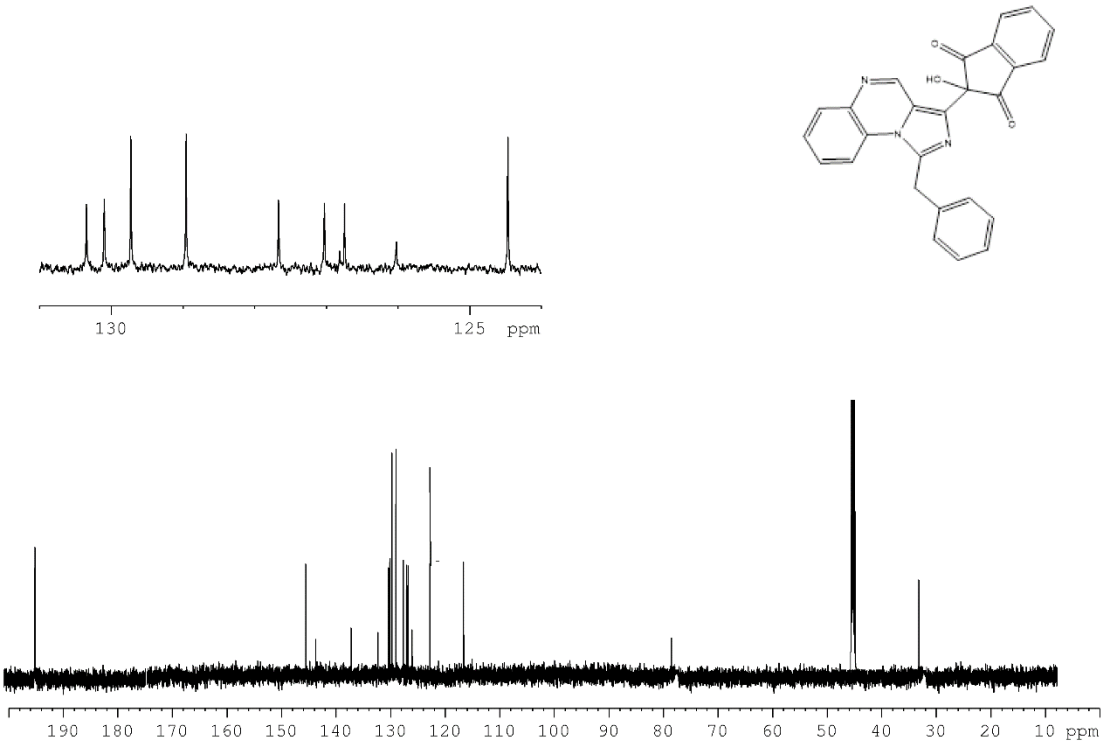
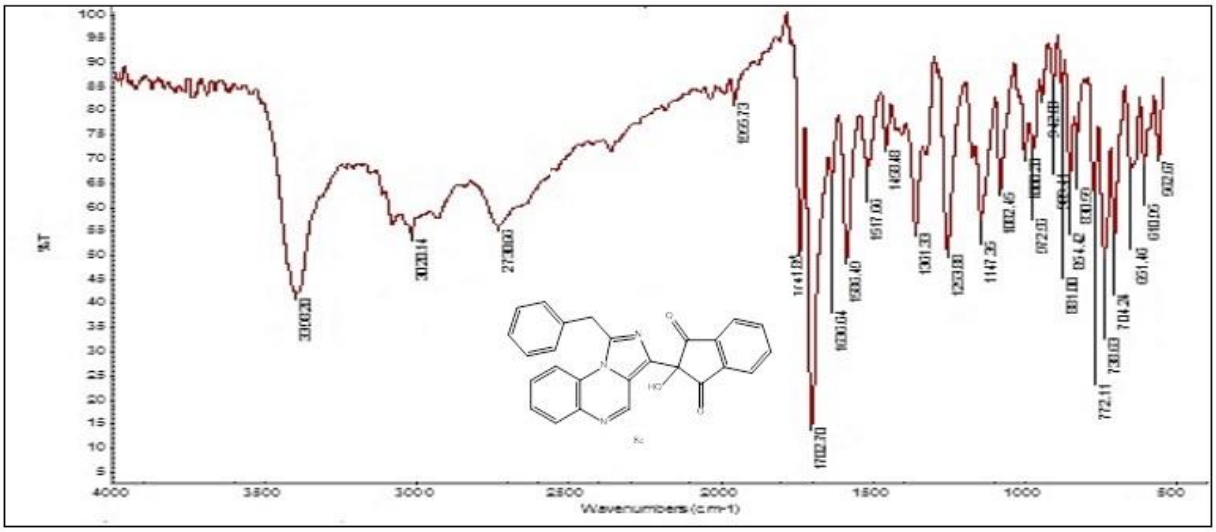
120
110
100
90
80
ppm


%T
Wavenumbers (cm-1)
4000
3500
3000
2500
2000
1500
1000
500

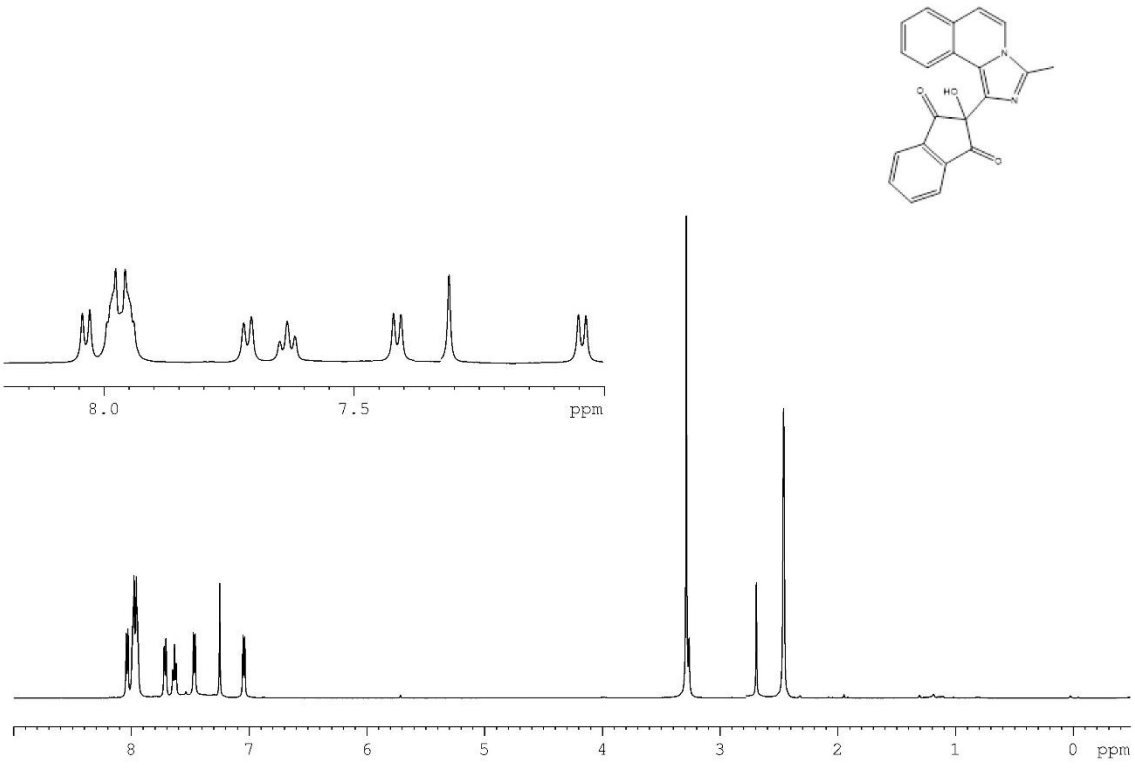
2-(1-benzylimidazo[1,5-a]quinoxalin-3-yl)-2-hydroxy-1H-indene-1,3(2H)-dione (8c)

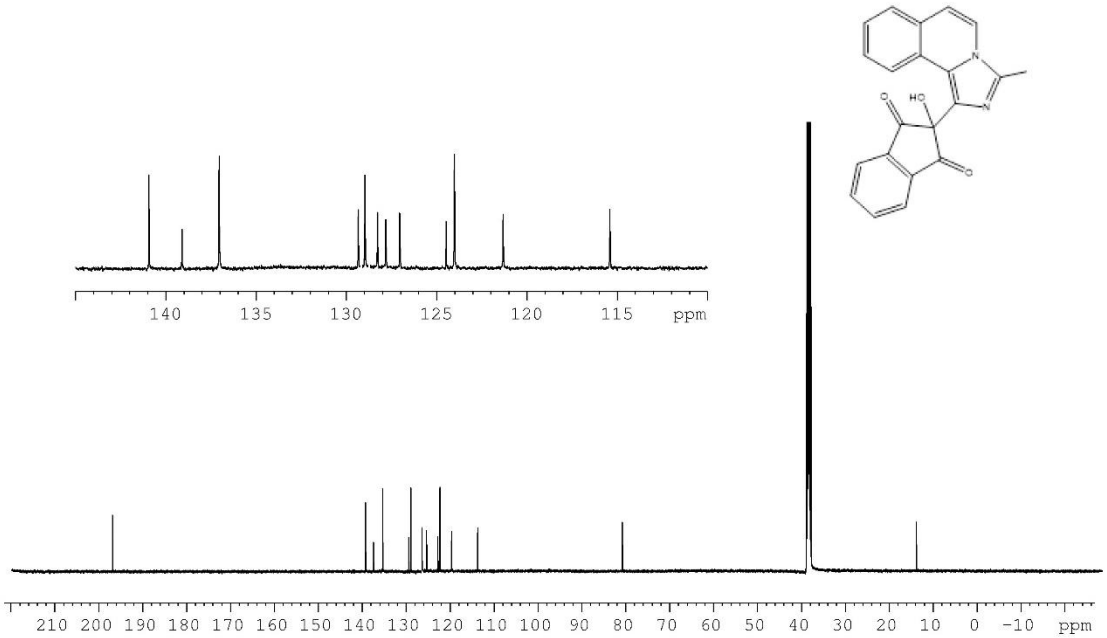






2-hydroxy-2-(3-methylimidazo[5,1-a]isoquinolin-1-yl)-1H-indene-1,3(2H)-dione (9a)

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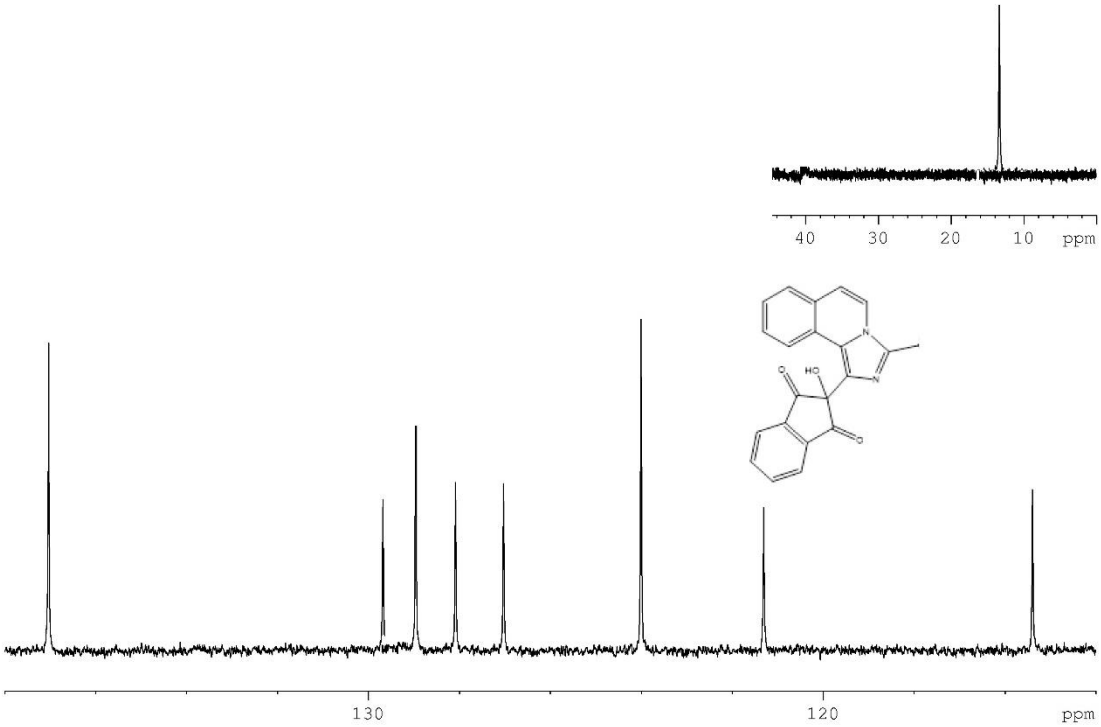
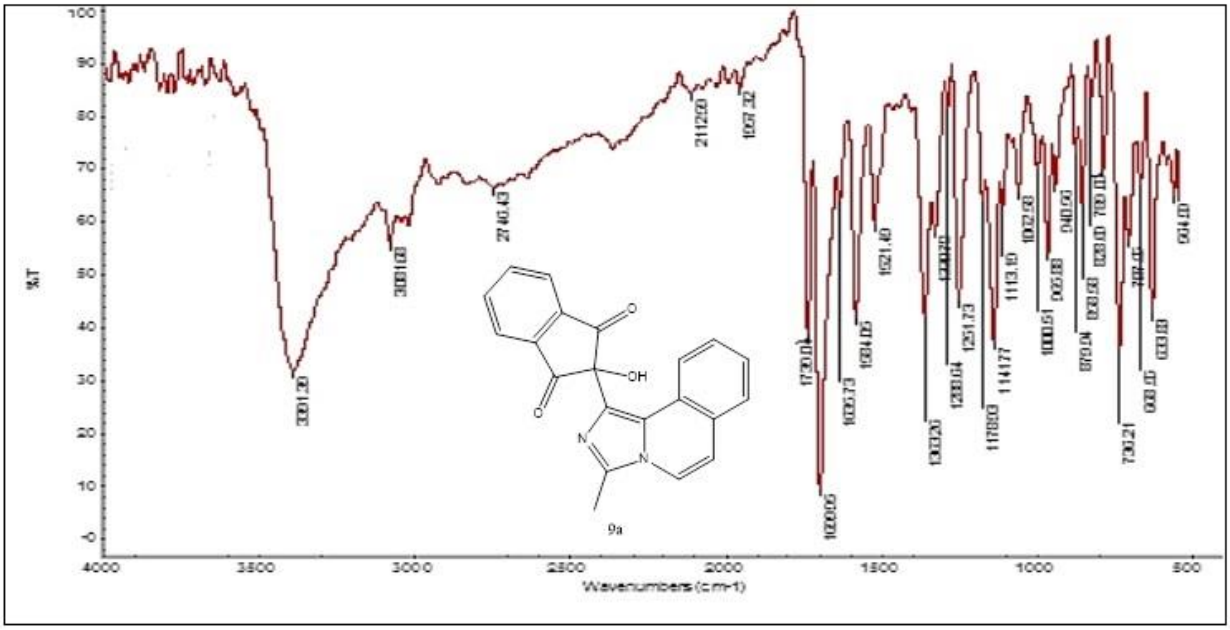

40 30 20 10 ppm
130 120 ppm



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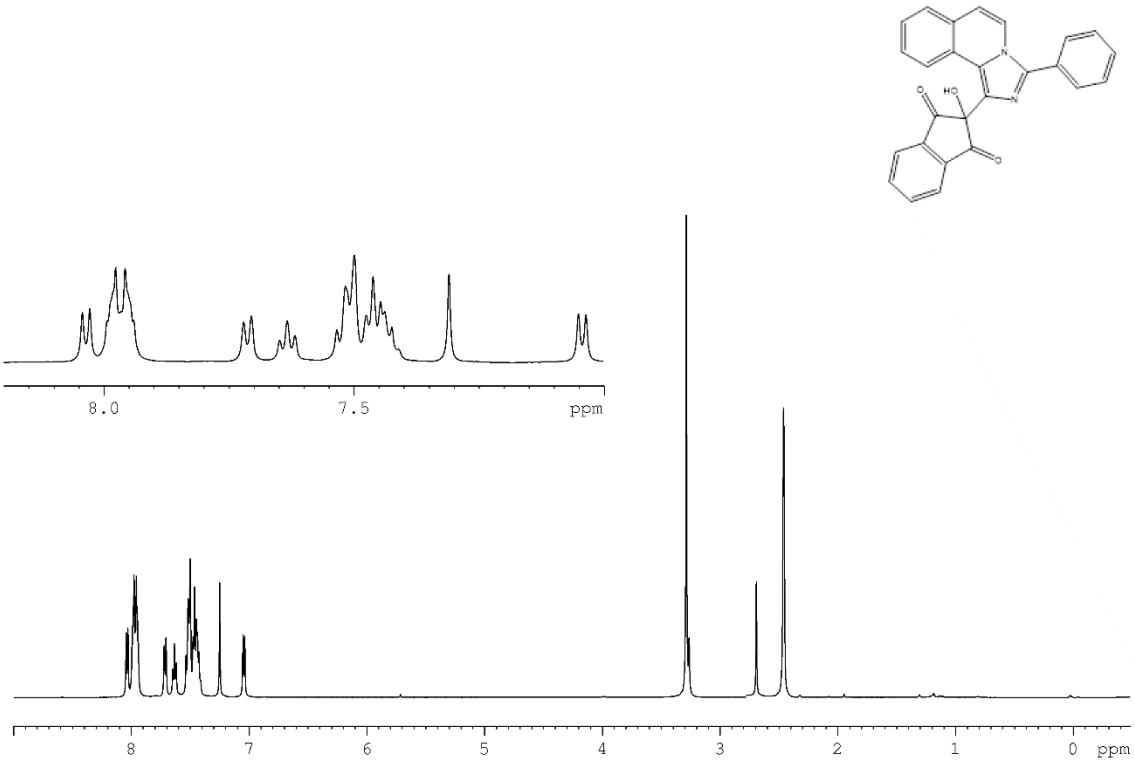

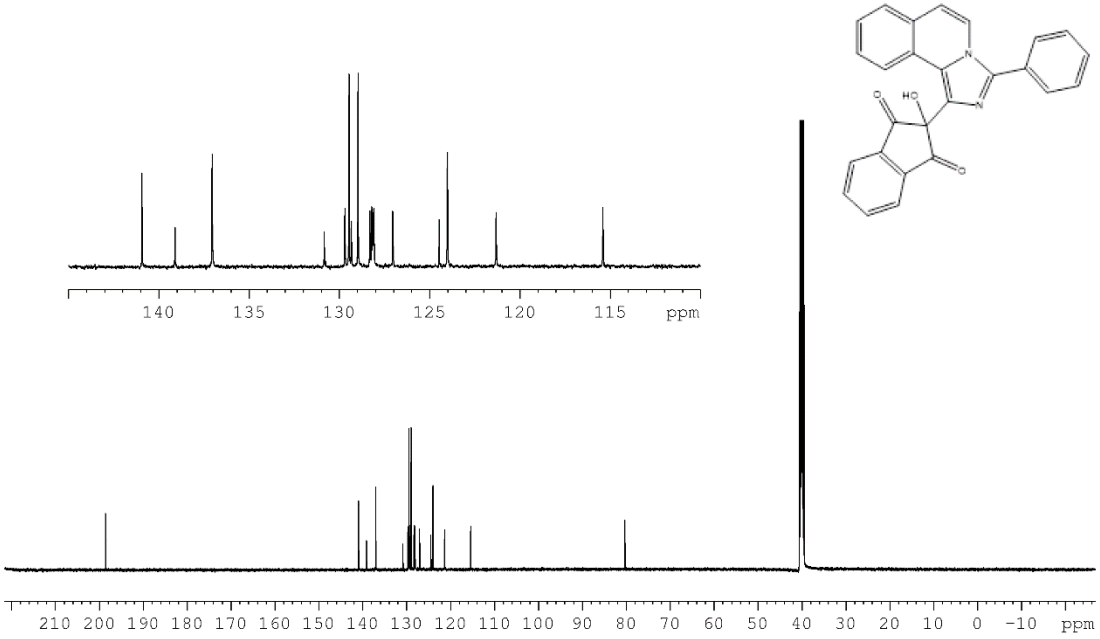
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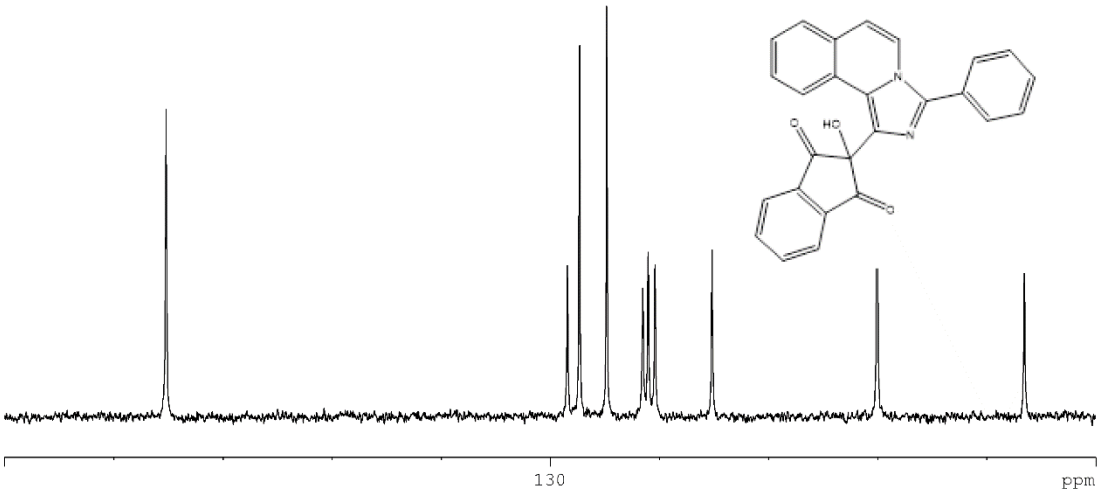
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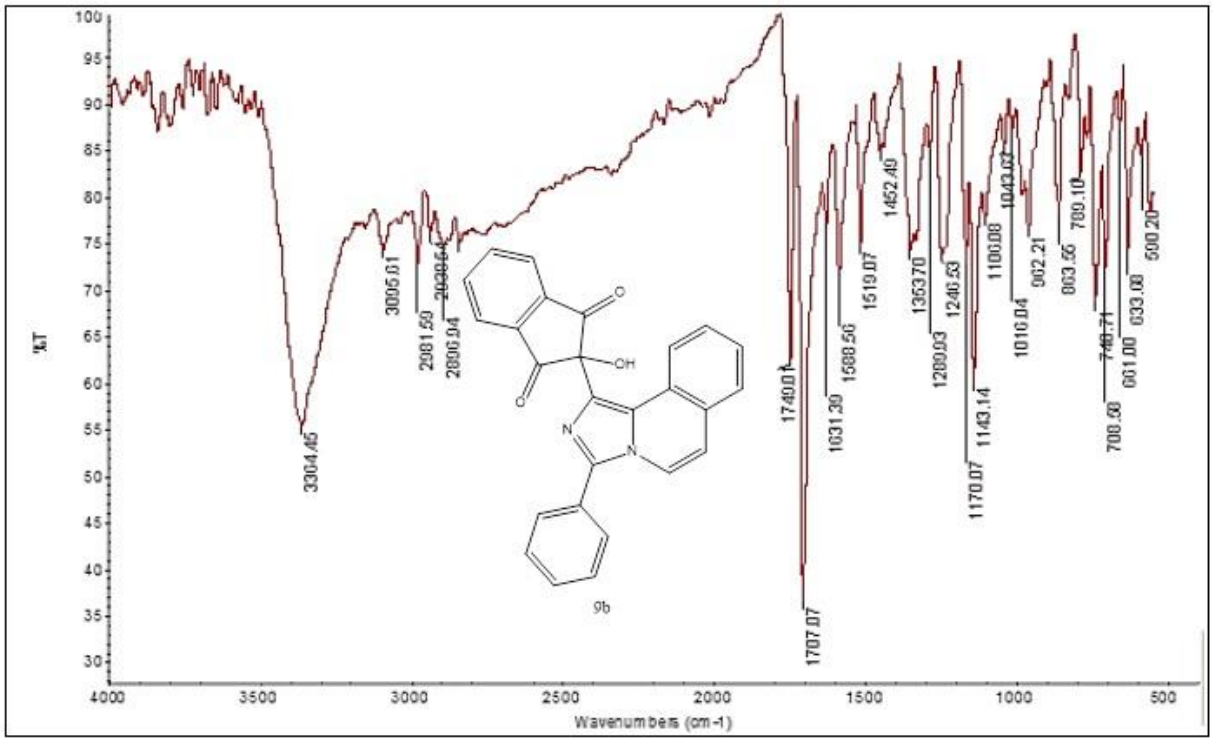

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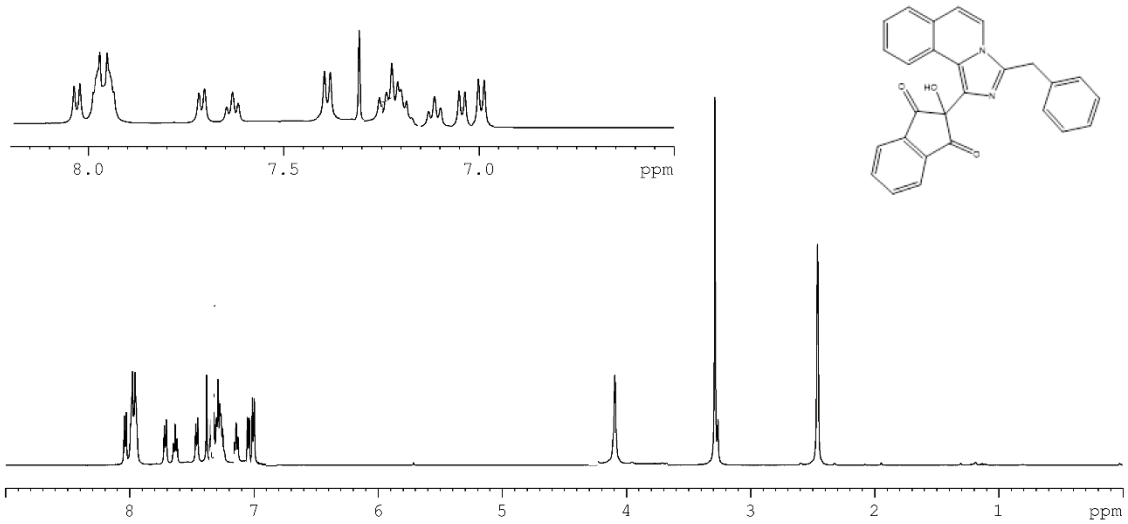

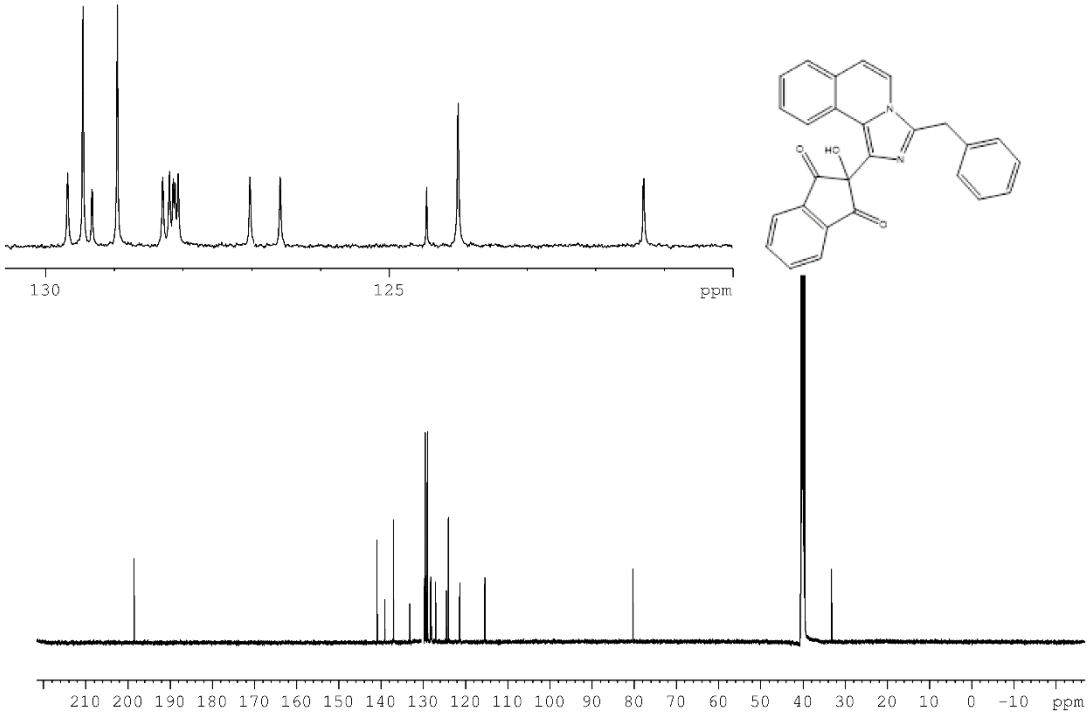
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125
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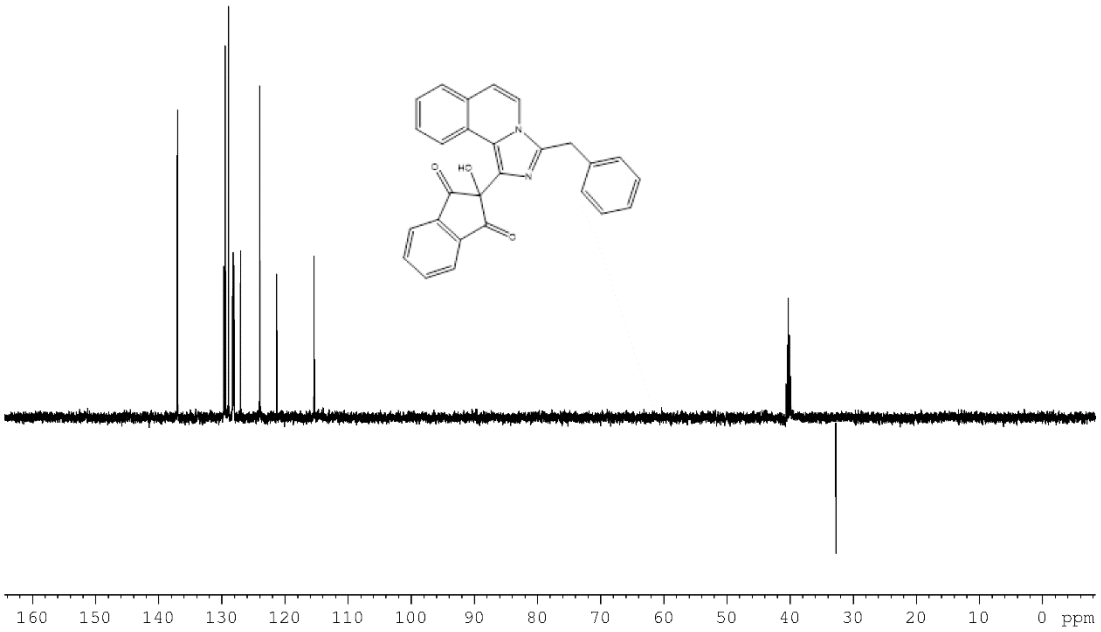
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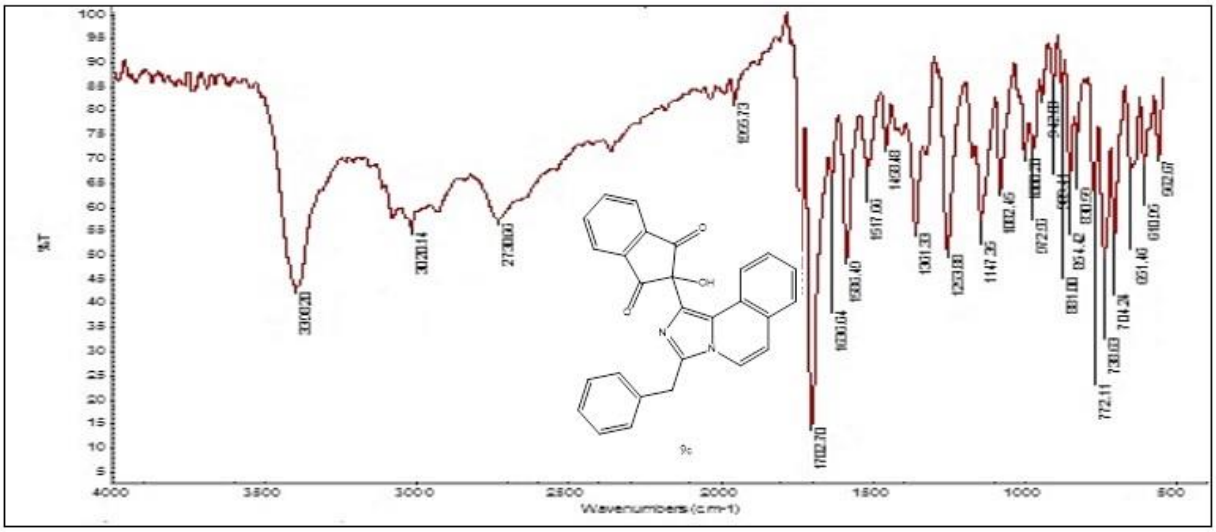
%T
Wavenumbers (cm-1)
9c