

Supporting Information

In Situ Generation of Palladium Nanoparticles: Ligand-Free Palladium Catalyzed Pivalic Acid-Assisted Carbonylative Suzuki Reaction at Ambient Conditions

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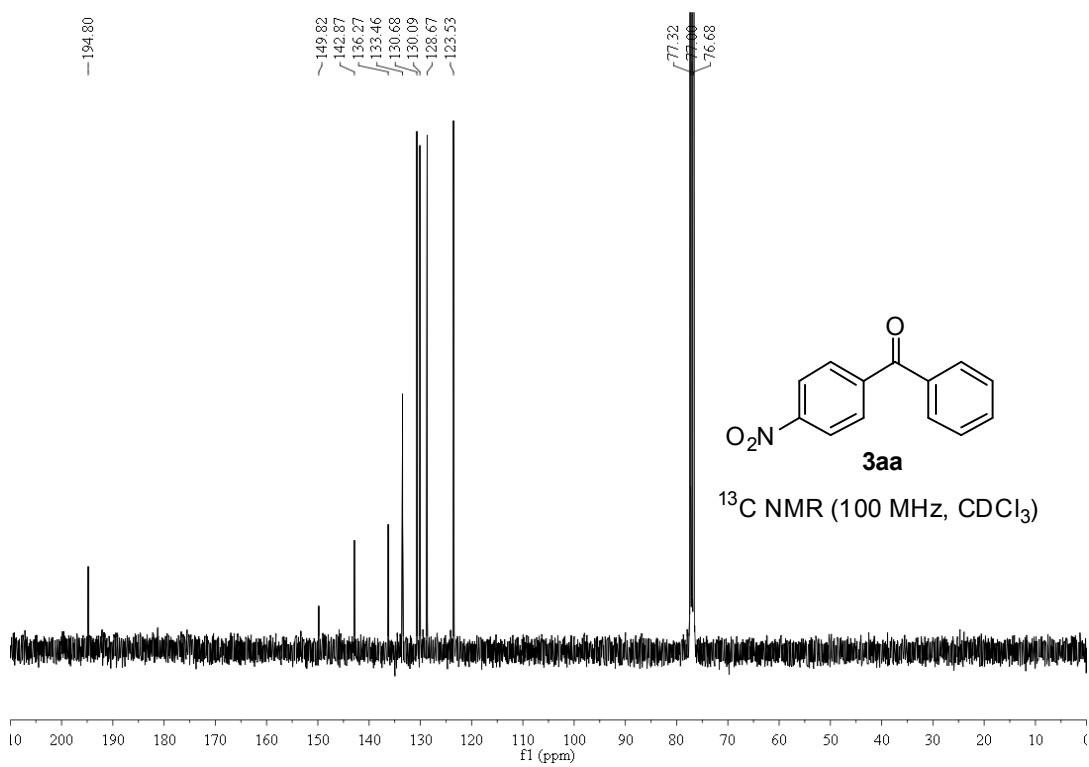
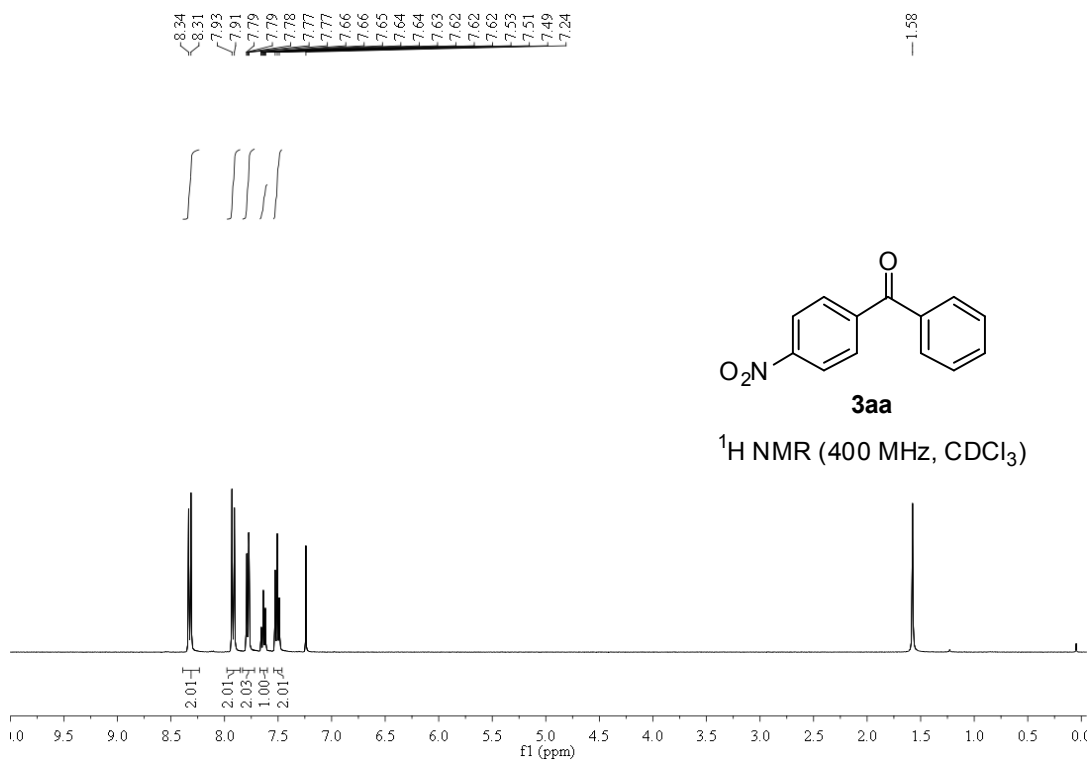
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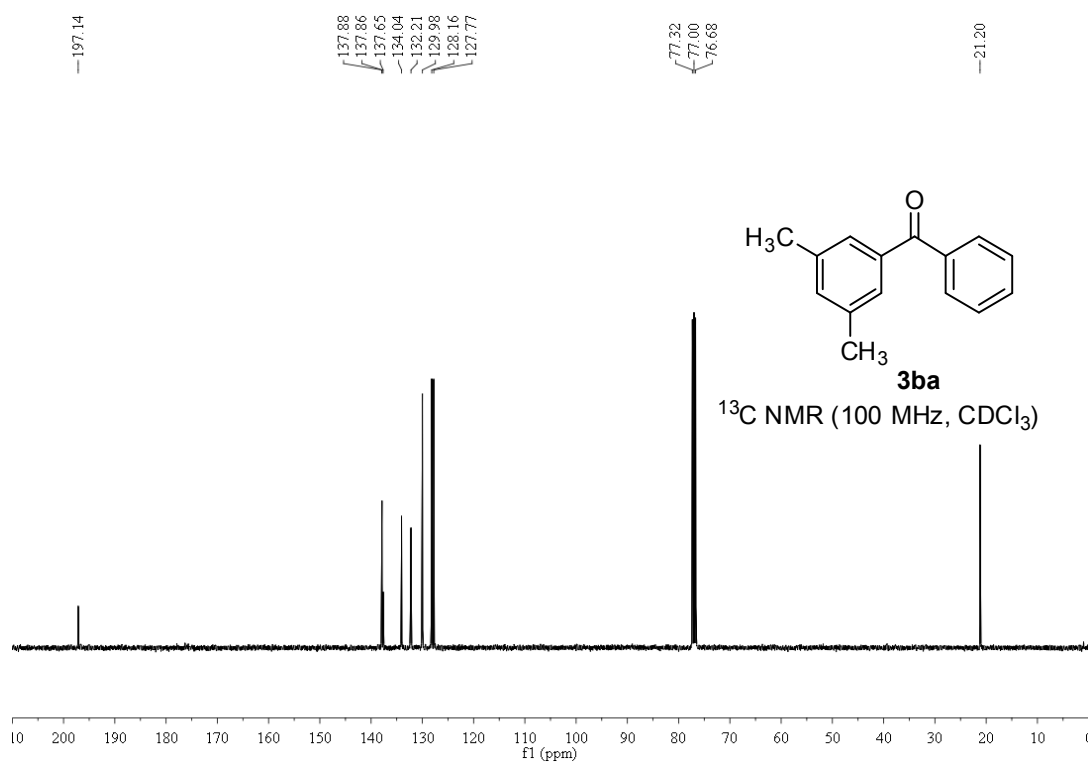
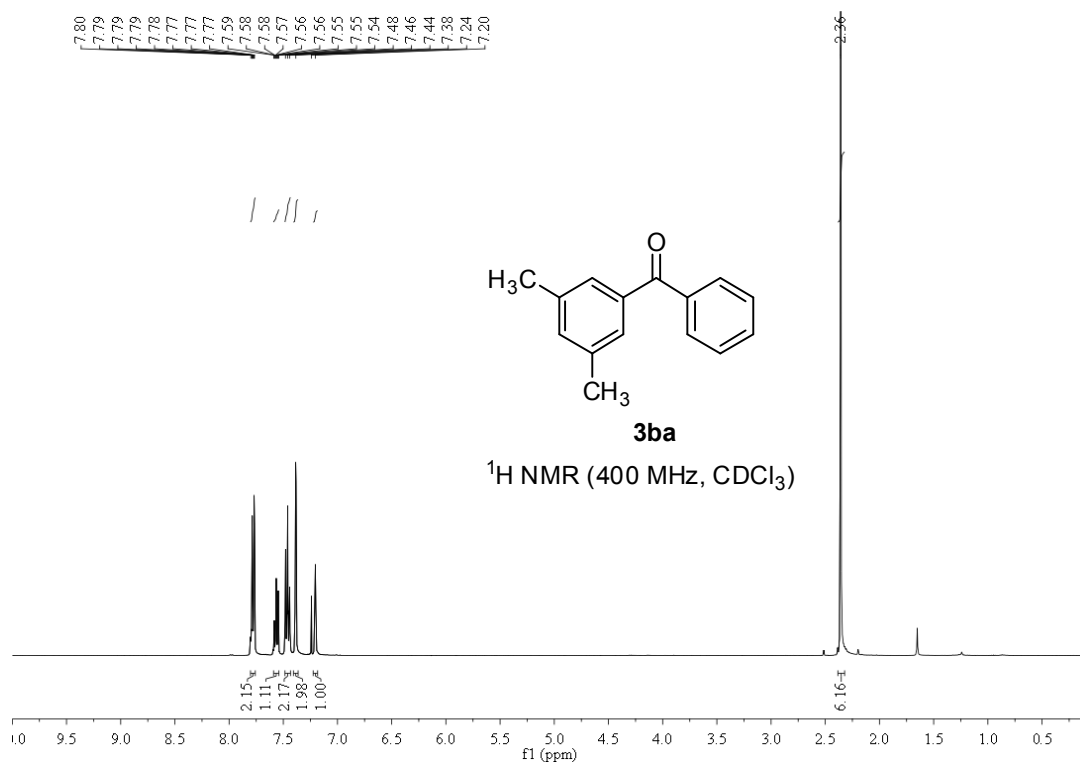
E-mail : whhanwei@gmail.com

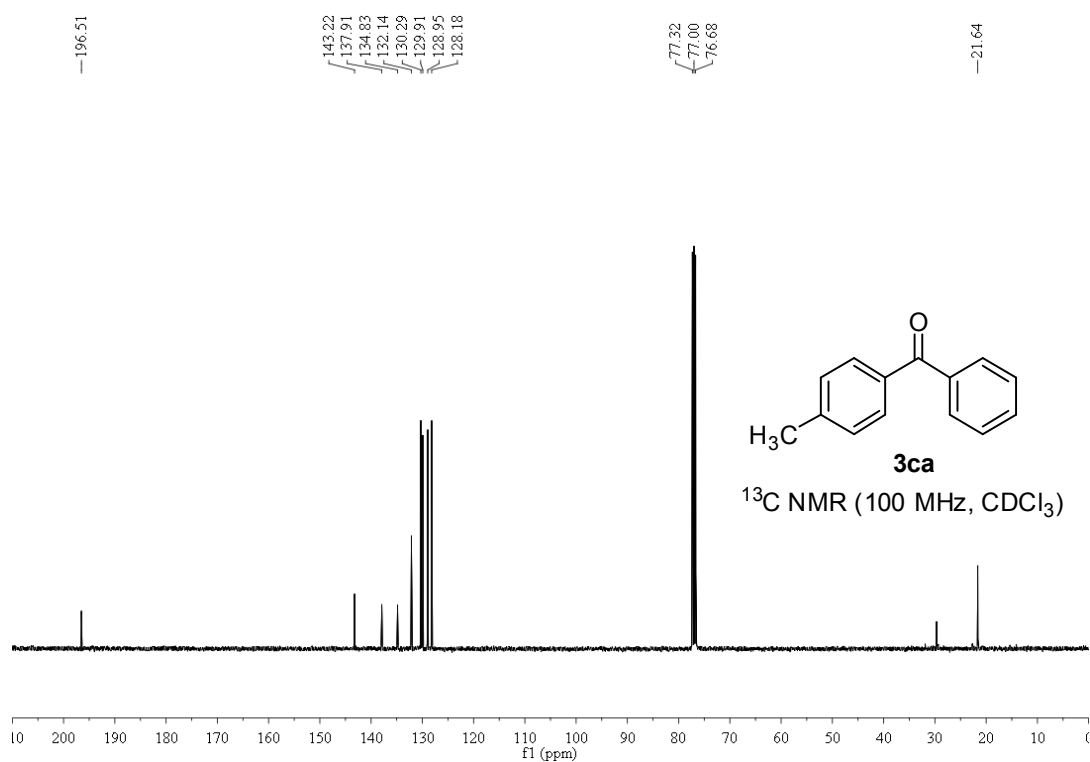
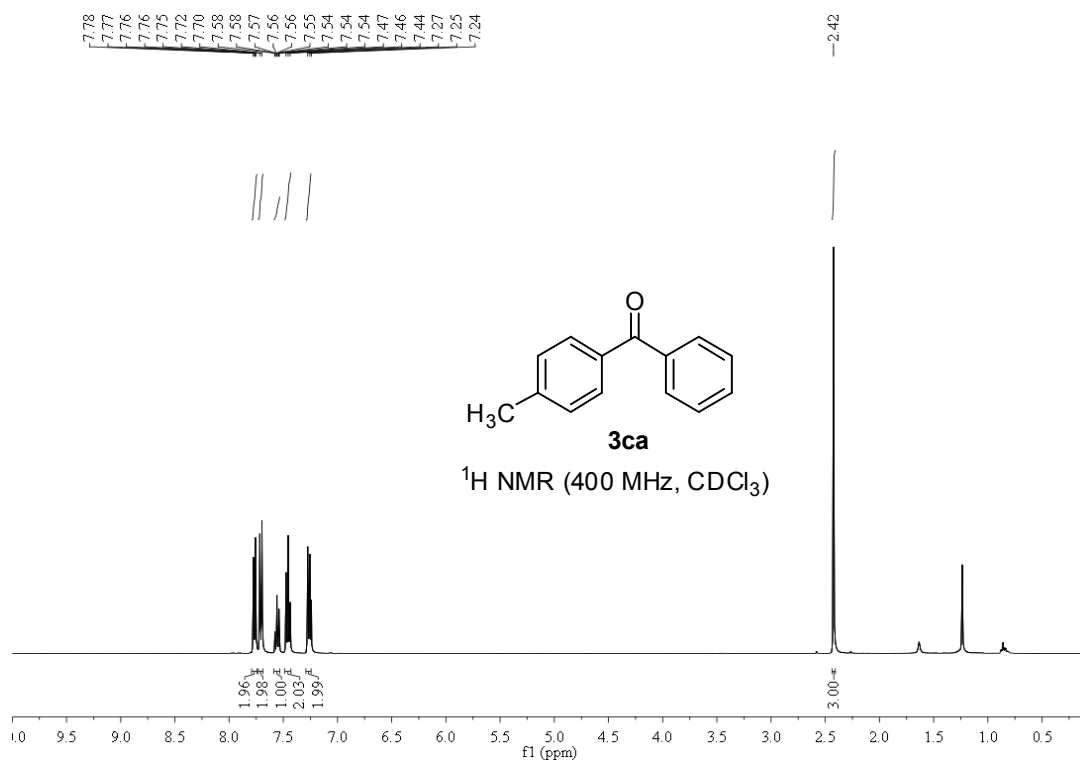
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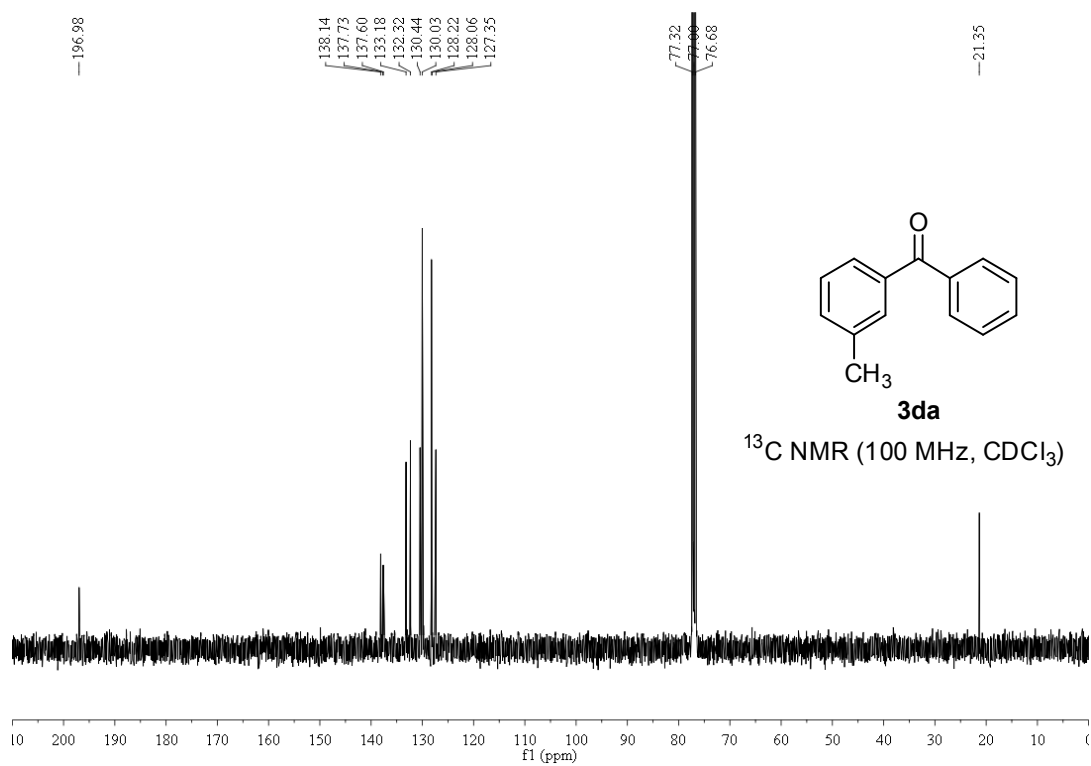
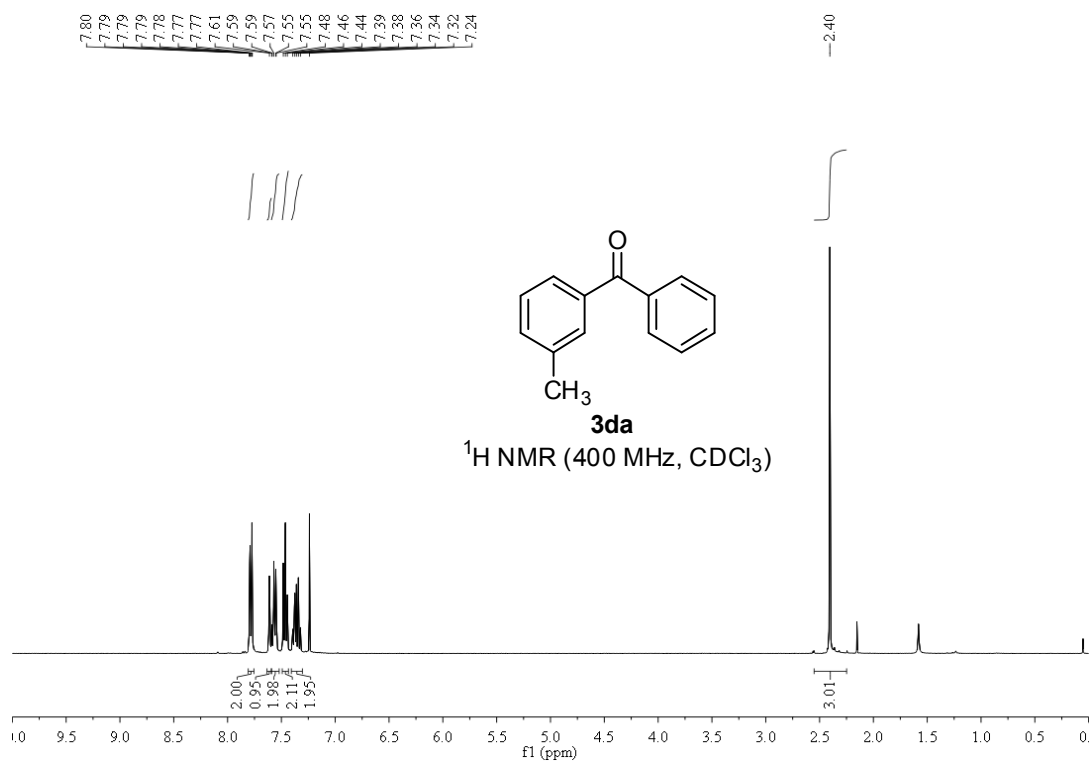
1. NMR spectra for all products-----	S2-S43
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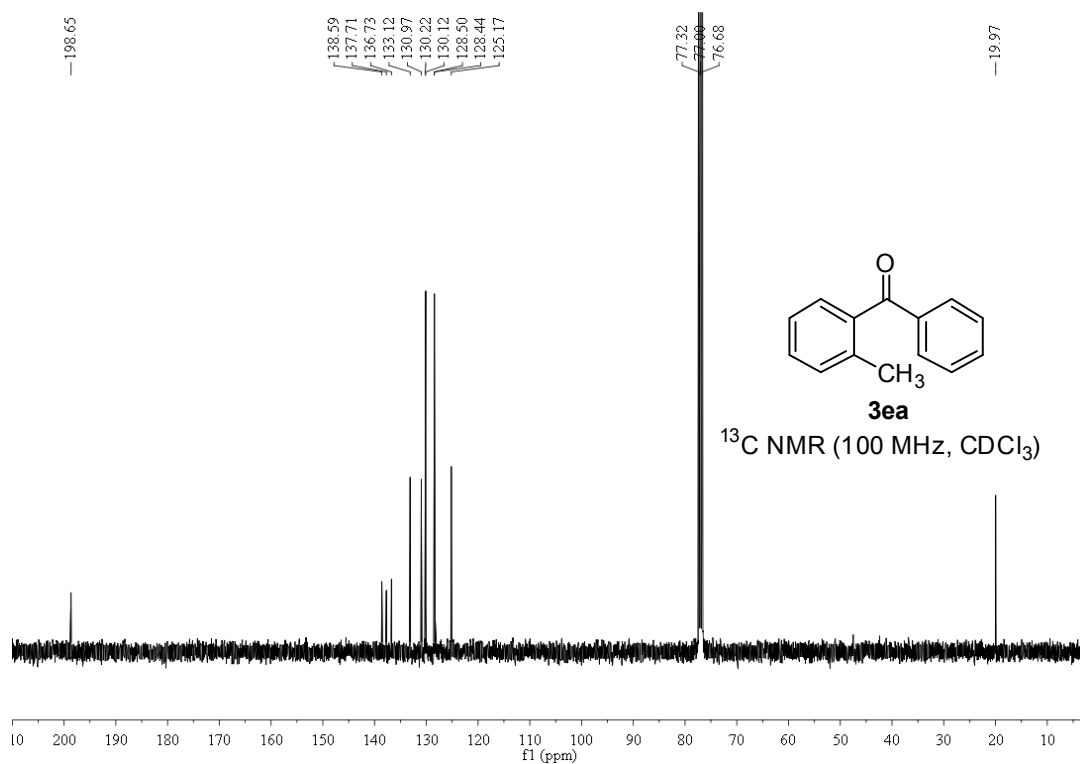
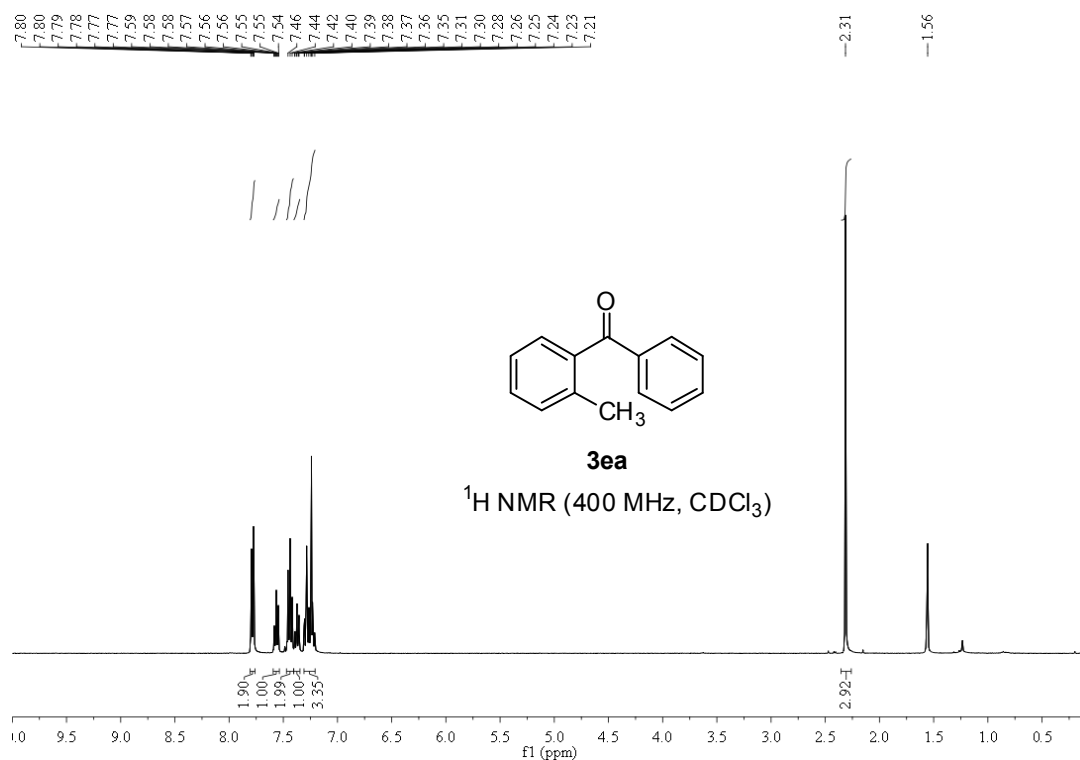
NMR spectra of all products

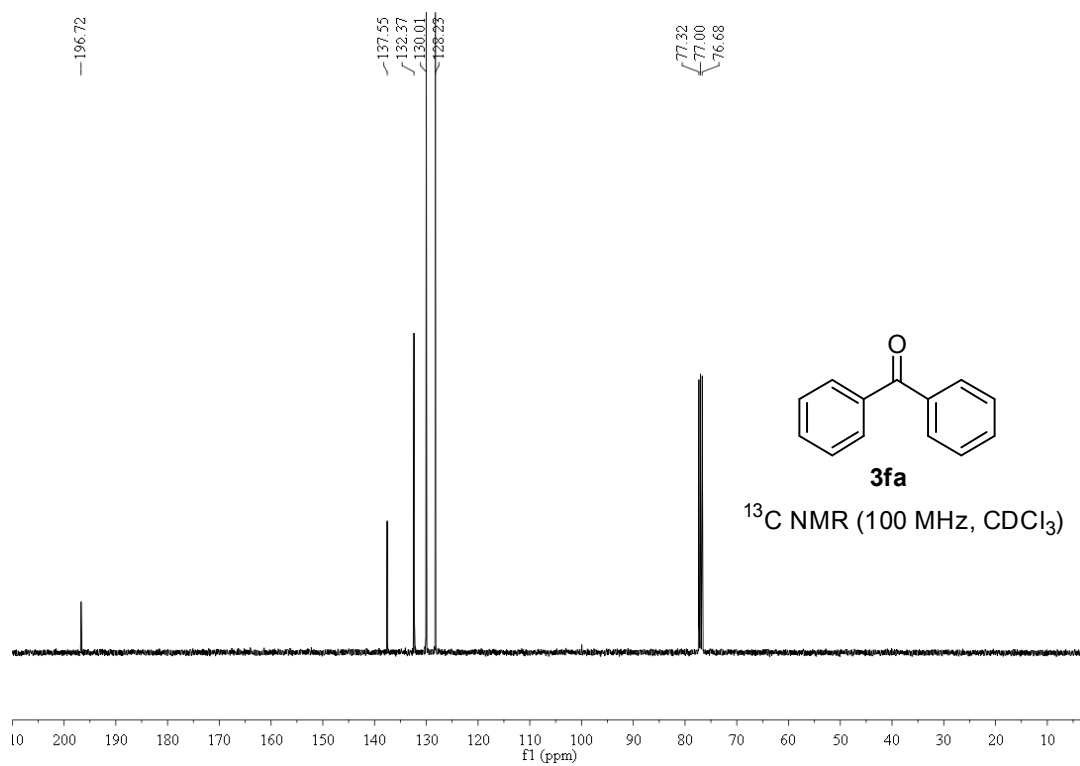
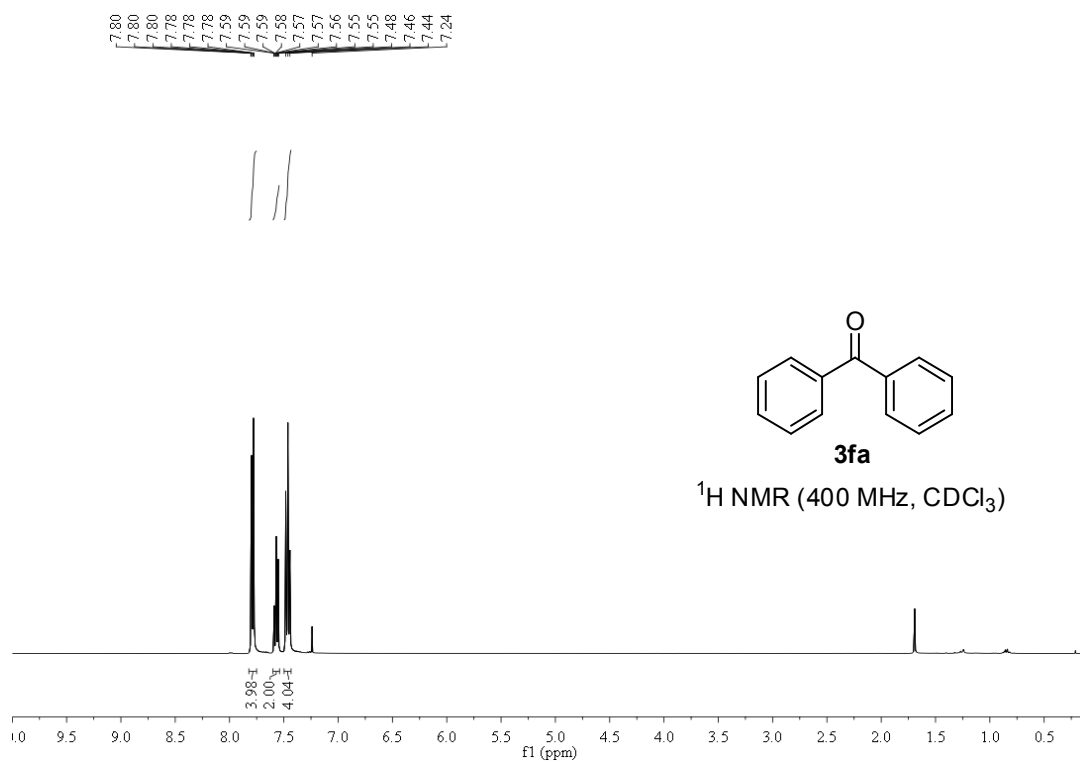


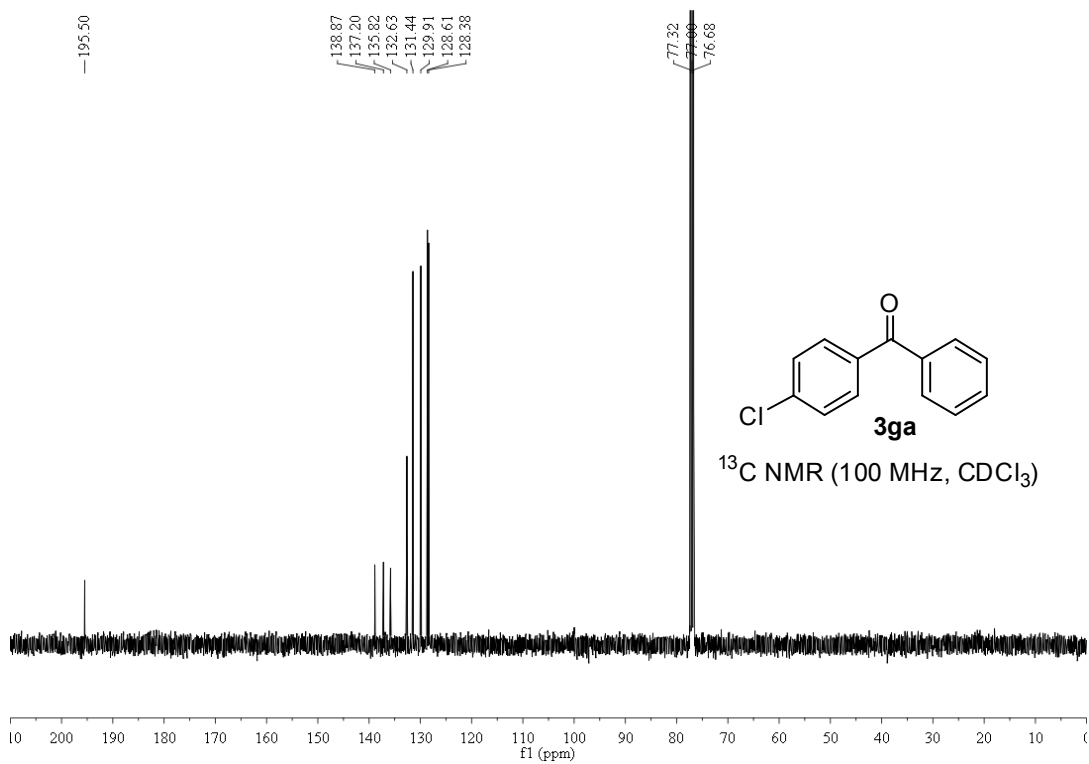
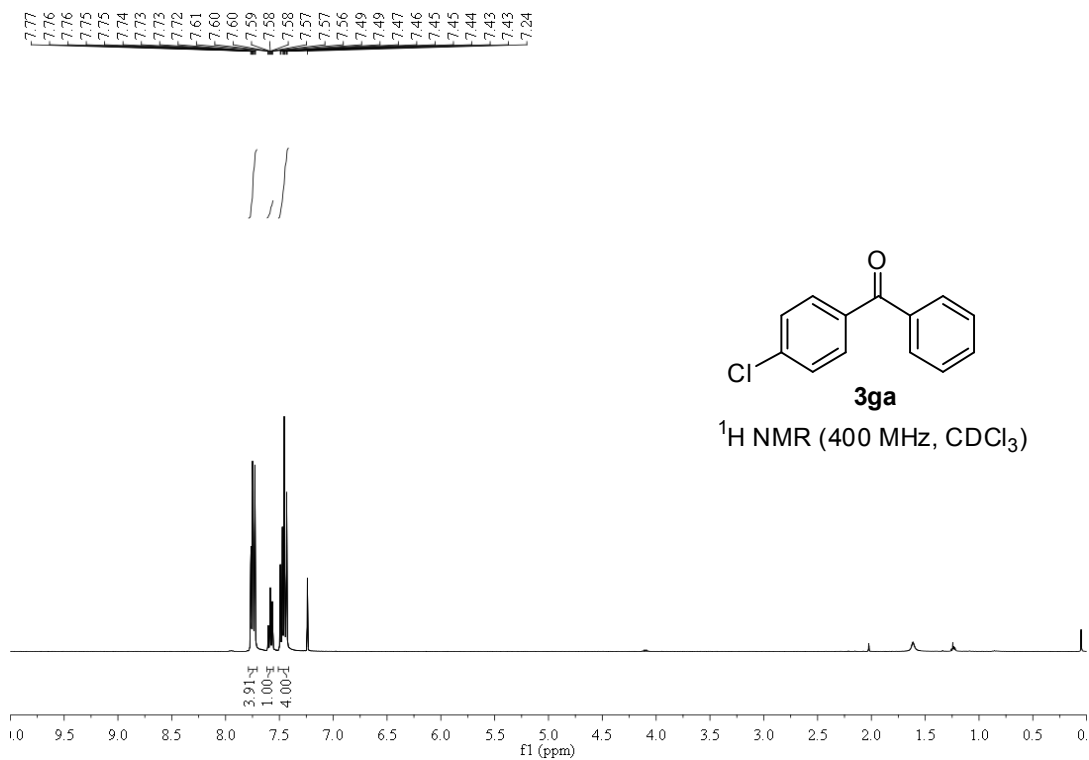


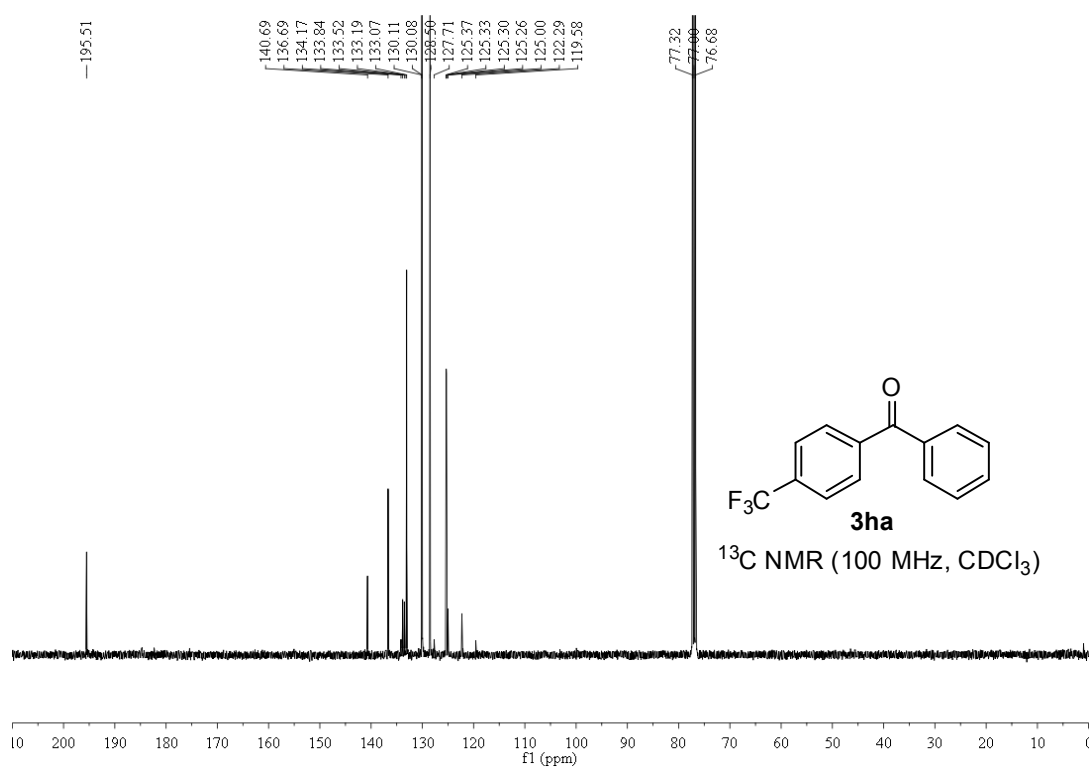
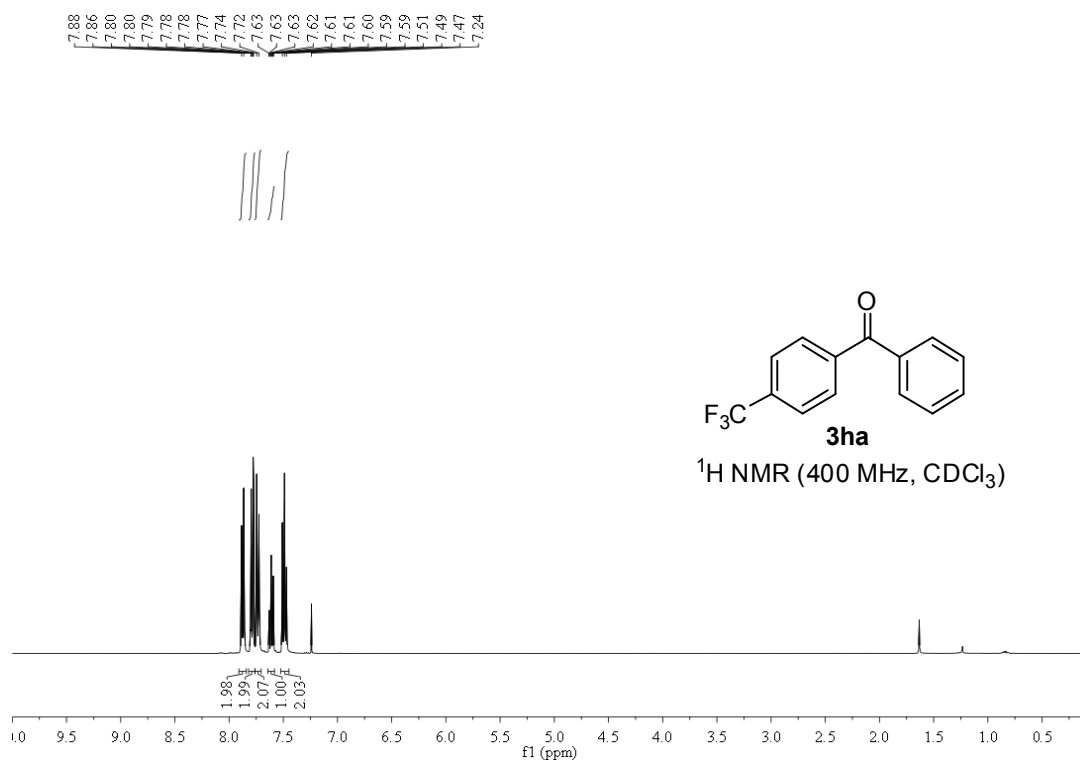


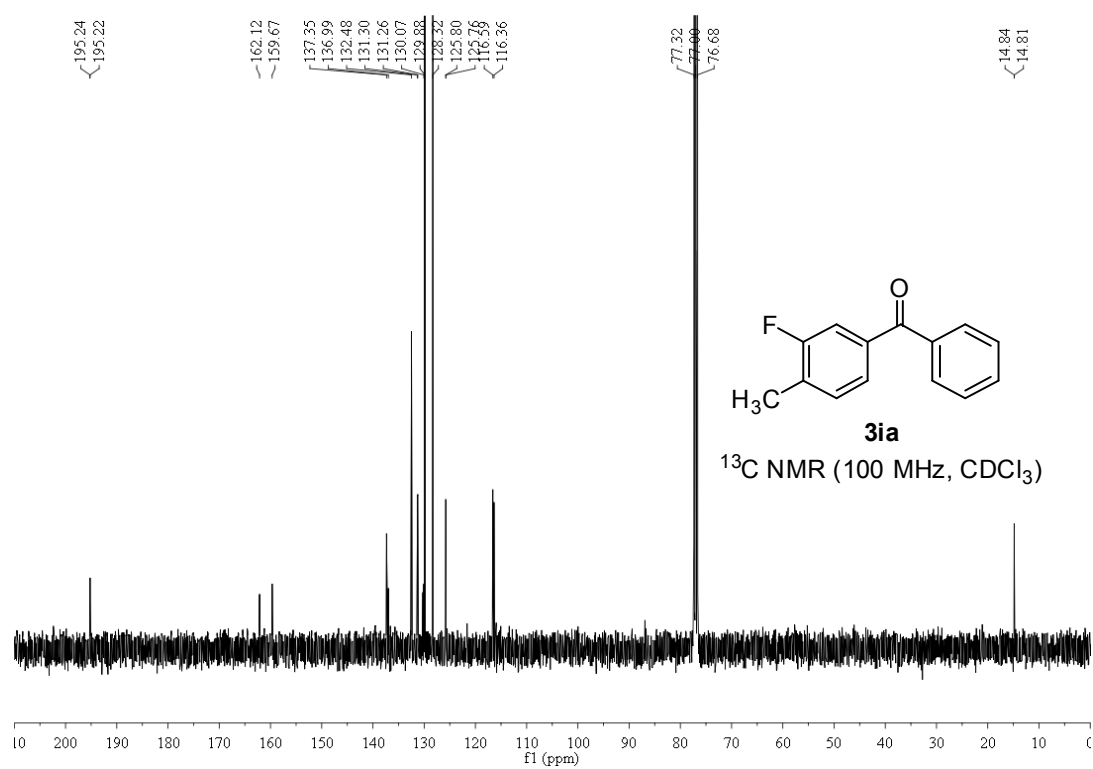
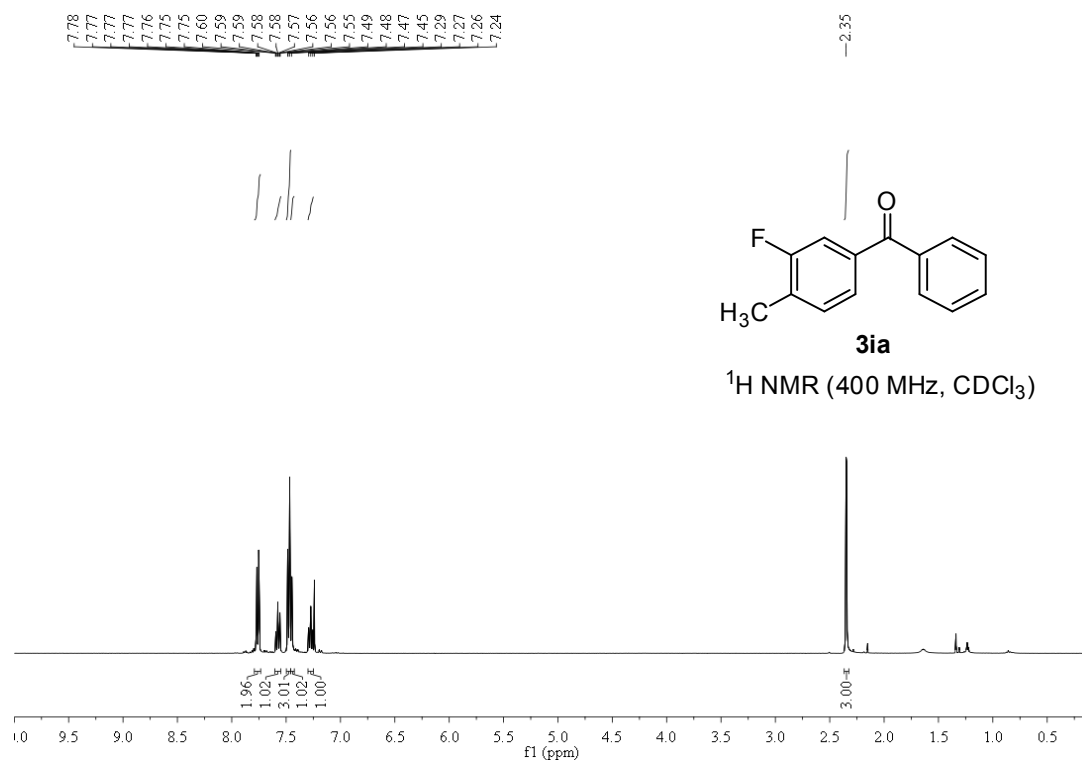






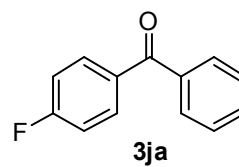




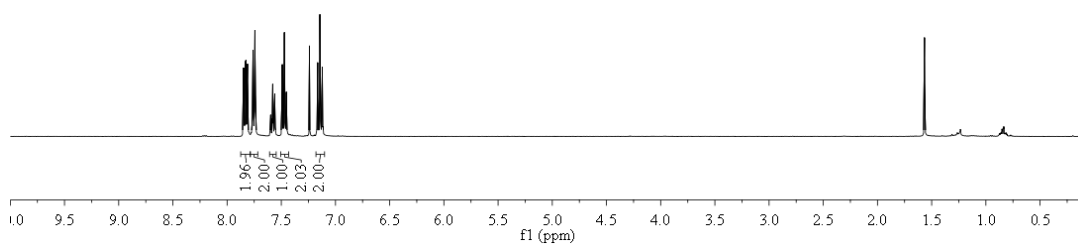


7.86
7.85
7.84
7.83
7.83
7.82
7.81
7.77
7.76
7.76
7.75
7.74
7.74
7.60
7.60
7.59
7.58
7.58
7.57
7.56
7.56
7.56
7.49
7.47
7.45
7.24
7.16
7.14
7.12

-1.57



¹H NMR (400 MHz, CDCl₃)

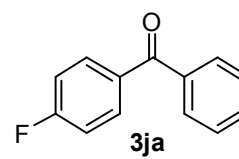


-195.27

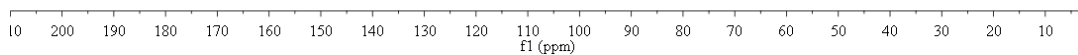
~166.65
~164.12

137.49
133.80
133.77
132.70
132.61
132.46
129.86
128.35
115.55
115.34

77.32
77.00
76.68



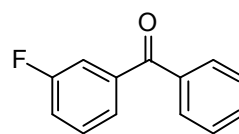
¹³C NMR (100 MHz, CDCl₃)



7.80
7.79
7.79
7.78
7.77
7.77
7.61
7.59
7.57
7.56
7.54
7.50
7.48
7.46
7.45
7.43
7.43
7.42
7.30
7.29
7.29
7.29
7.28
7.27
7.27
7.25
7.25
7.25
7.24

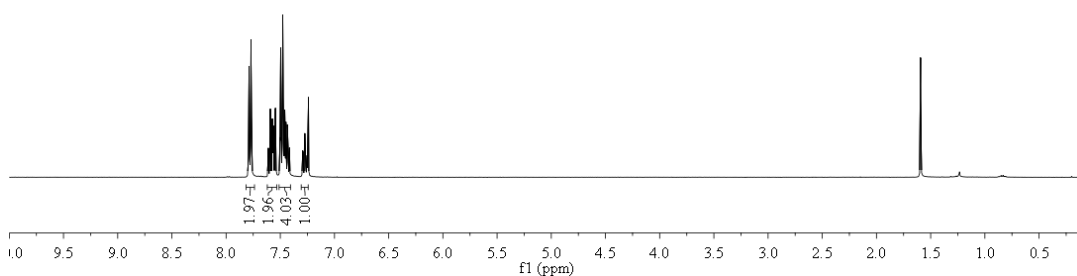
-1.59

1.97
1.96
4.03
1.00



3ka

^1H NMR (400 MHz, CDCl_3)

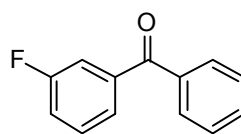


195.30
195.28

163.70
161.23

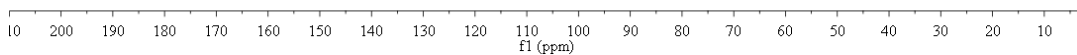
139.67
139.61
137.01
132.76
129.99
129.91
128.46
125.81
125.78
119.51
119.29
116.84
116.62

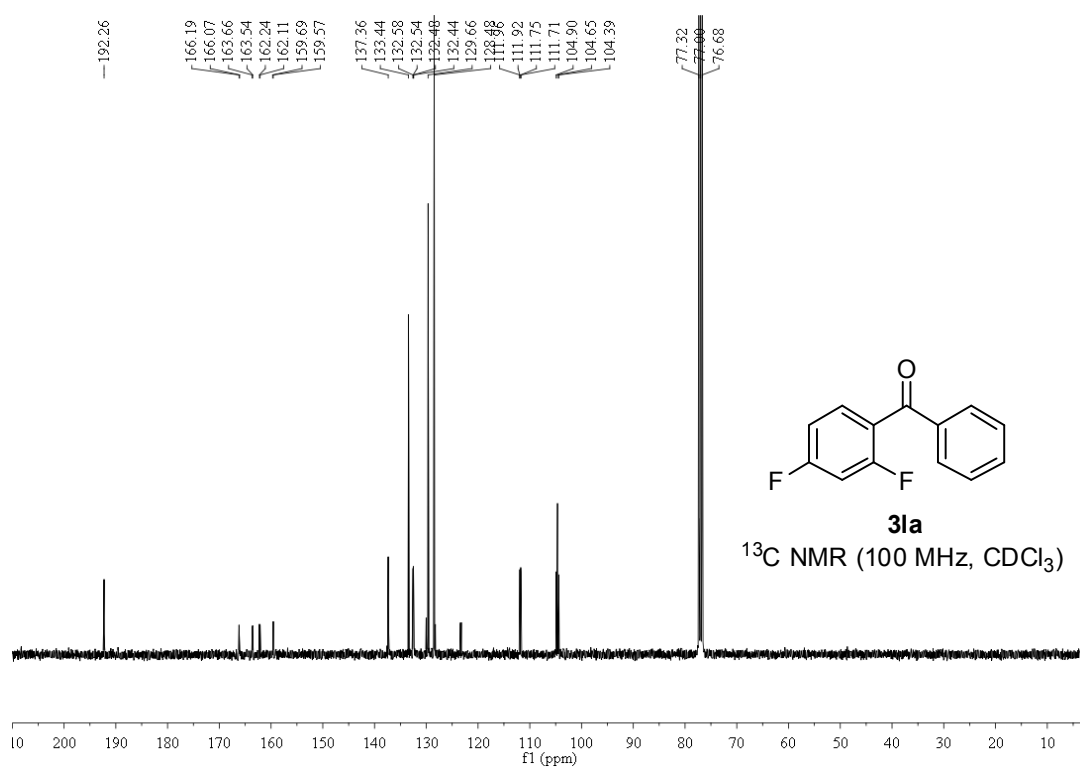
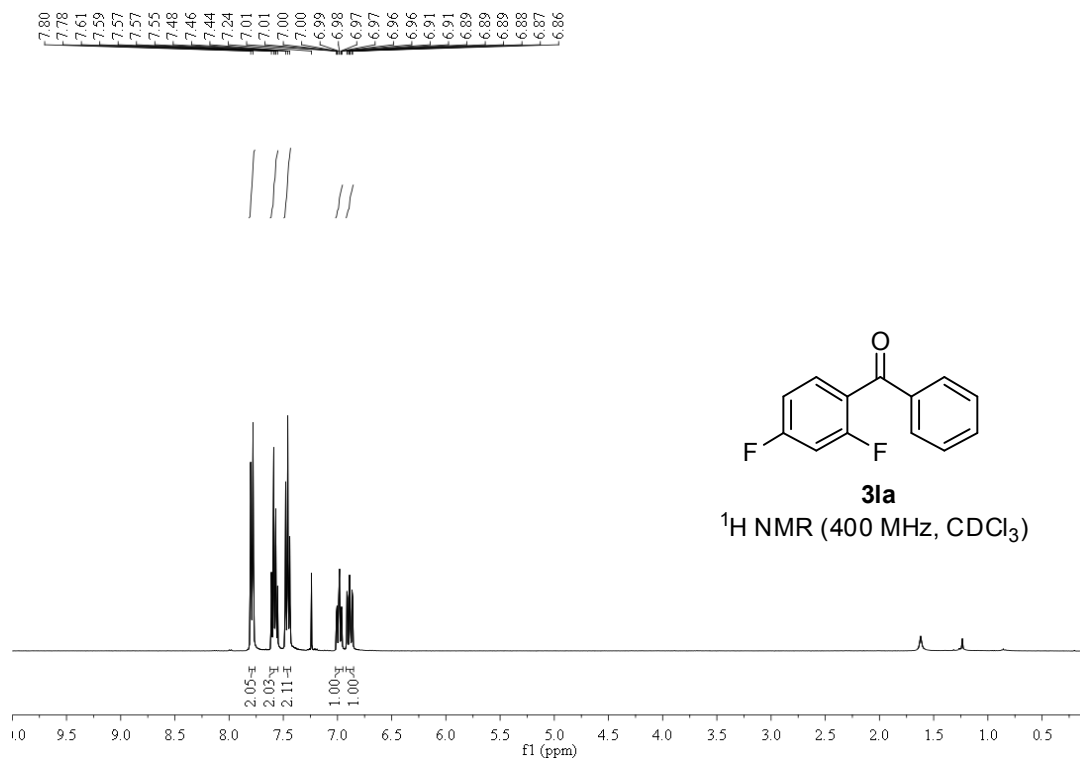
77.32
77.00
76.68

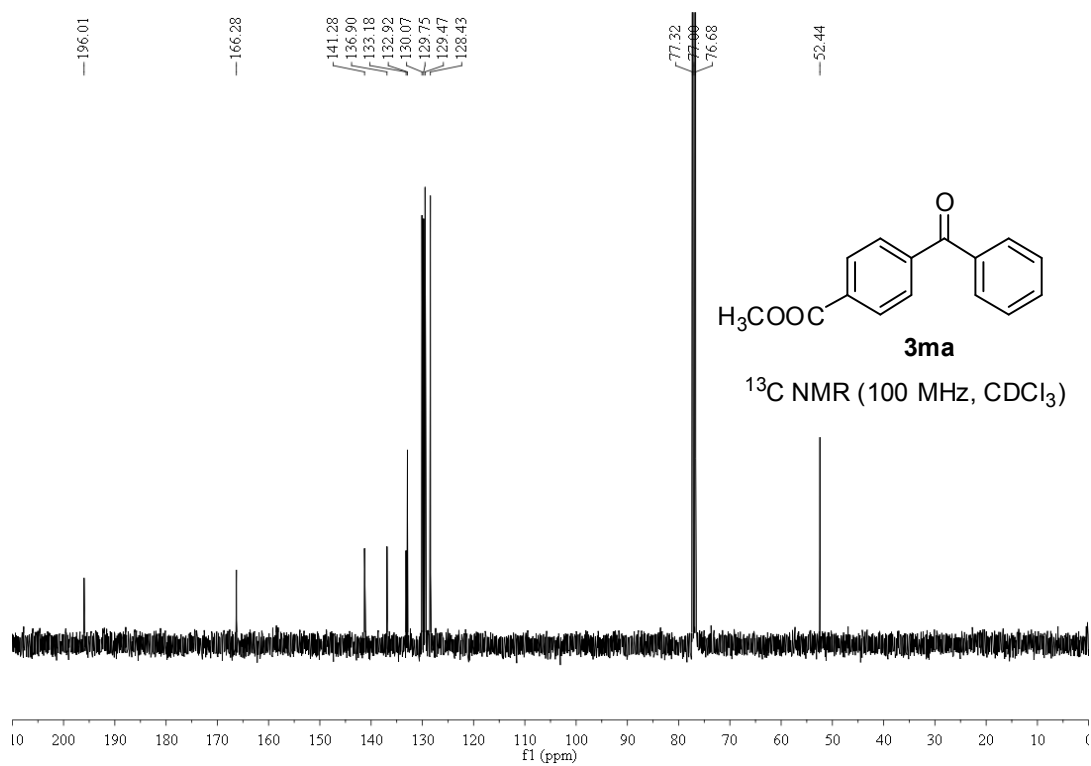
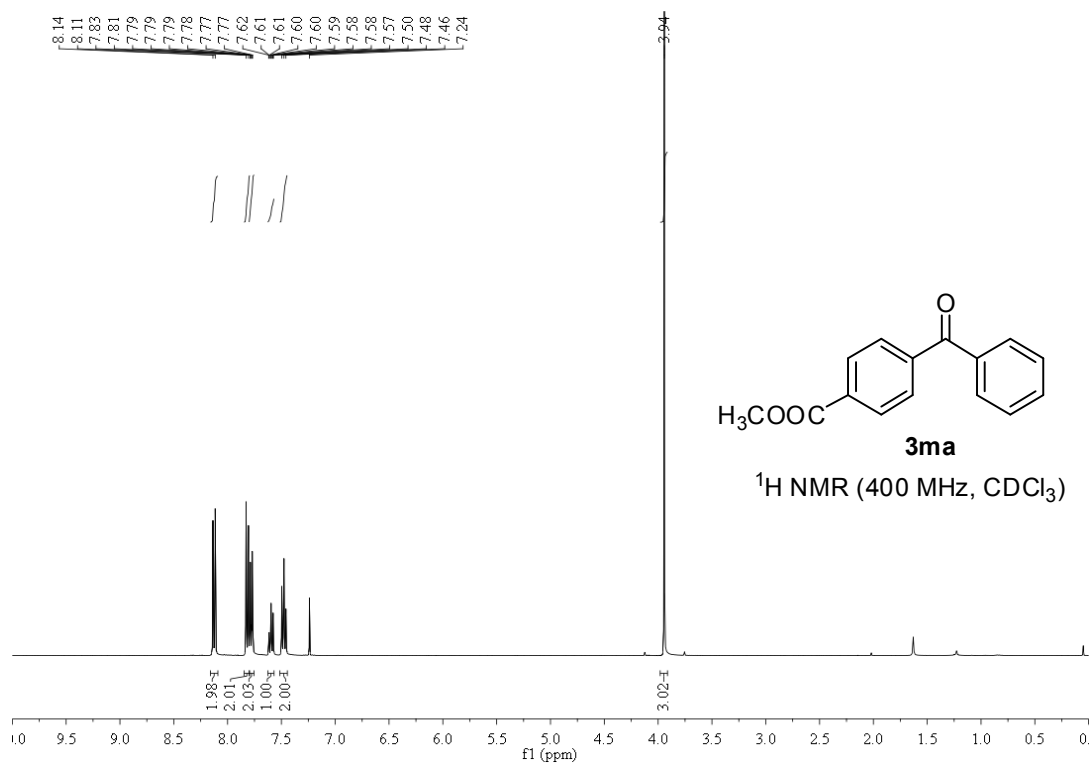


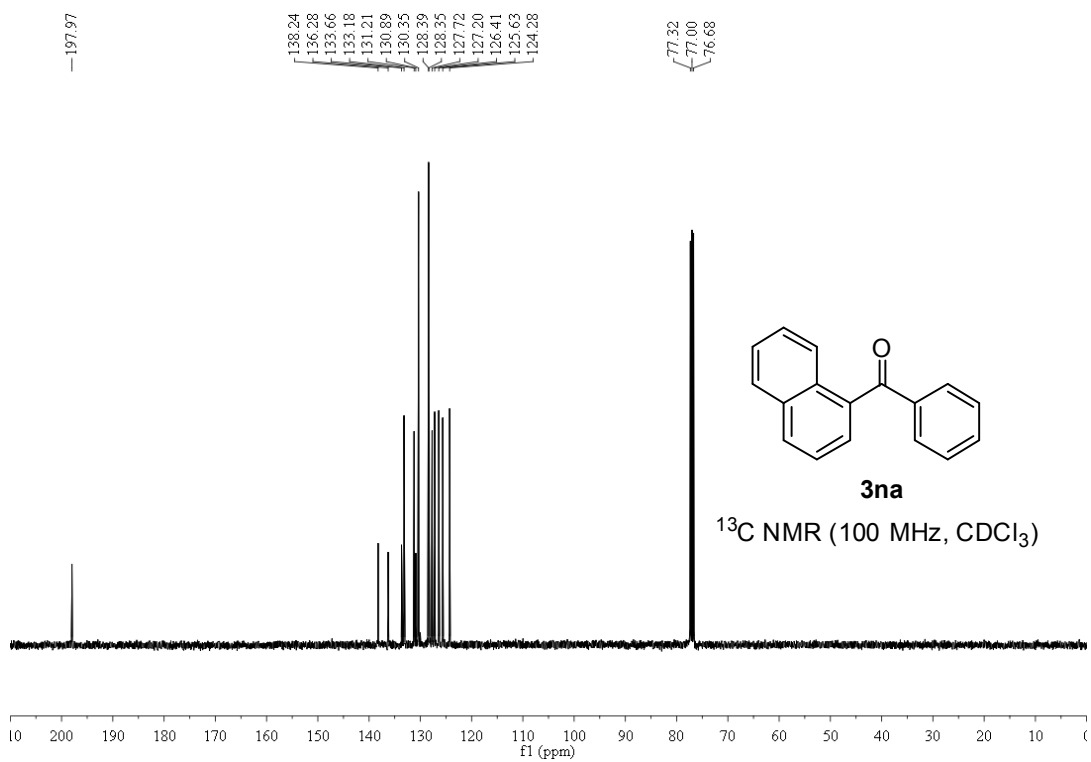
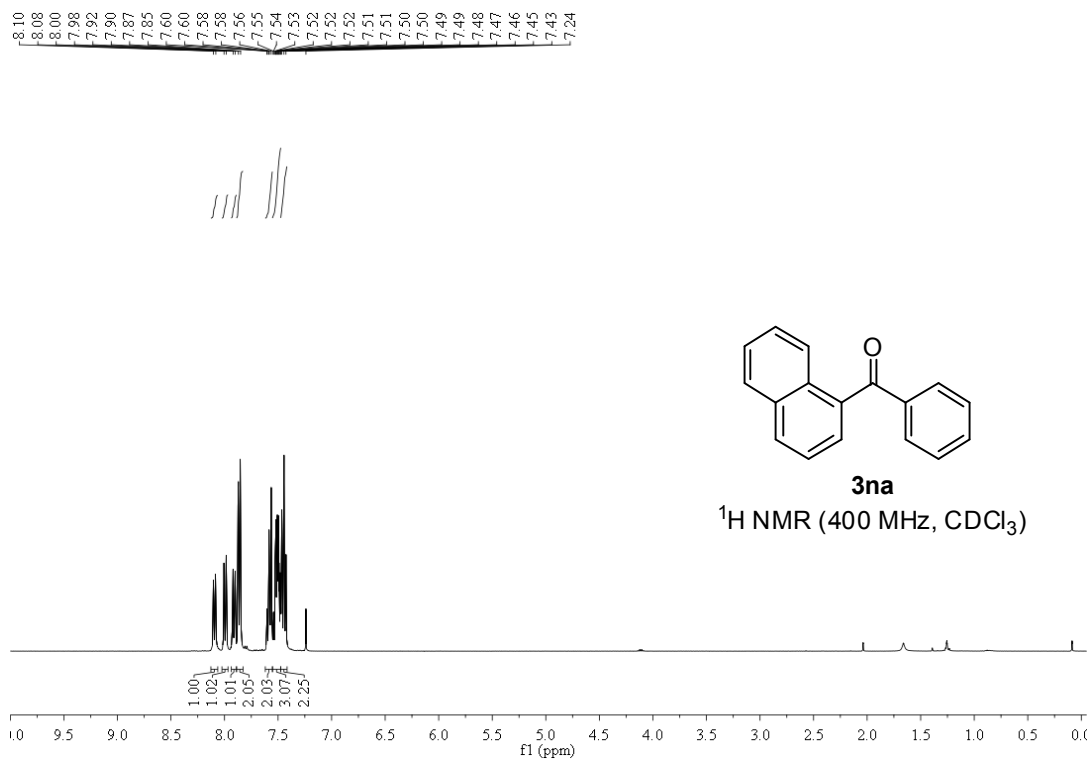
3ka

^{13}C NMR (100 MHz, CDCl_3)



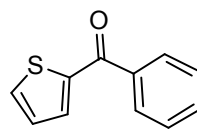






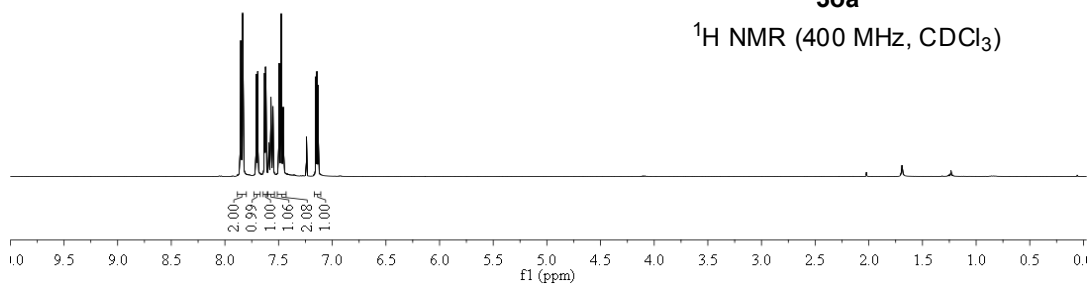
7.86
7.86
7.85
7.85
7.85
7.84
7.83
7.83
7.71
7.71
7.70
7.69
7.63
7.63
7.62
7.62
7.59
7.59
7.58
7.58
7.57
7.57
7.56
7.55
7.55
7.49
7.48
7.46
7.24
7.15
7.14
7.13

1
1
1
1
1
1



30a

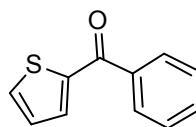
^1H NMR (400 MHz, CDCl_3)



188.20

143.57
138.07
134.83
134.19
132.33
129.12
128.37
127.93

77.32
77.00
76.68



30a

^{13}C NMR (100 MHz, CDCl_3)

