

Supporting information for

Toward the Oxidative Deconstruction of Lignin: Oxidation of β -1 and β -5 Linkages

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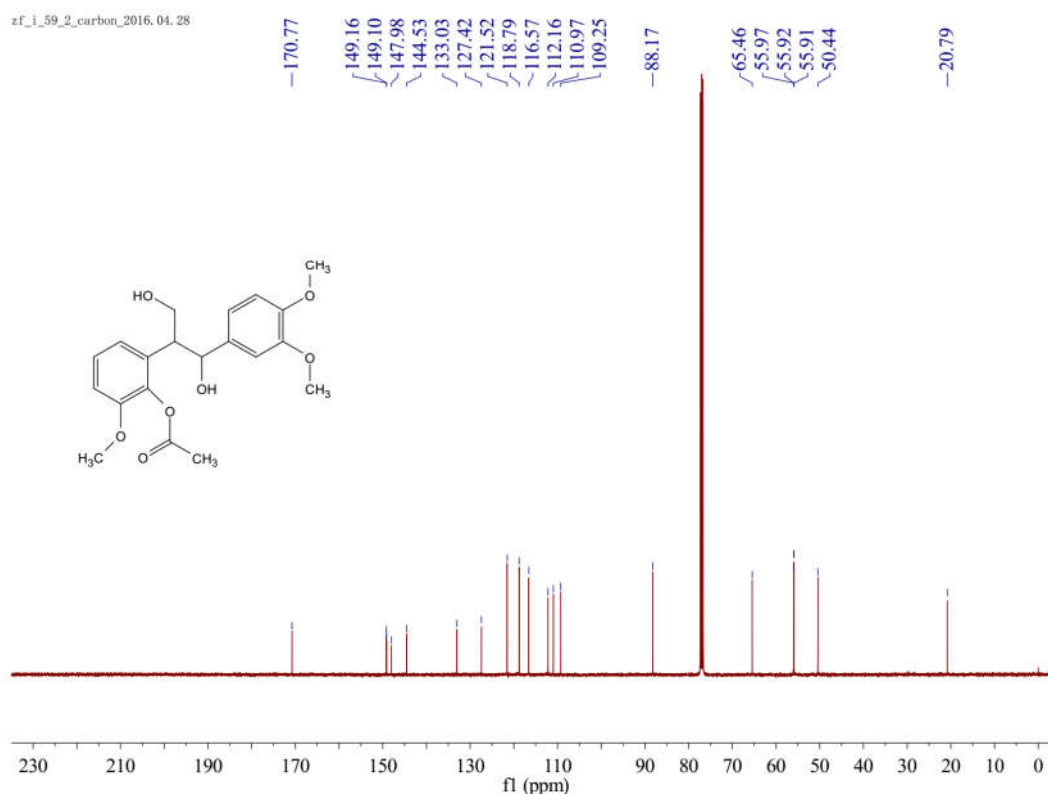
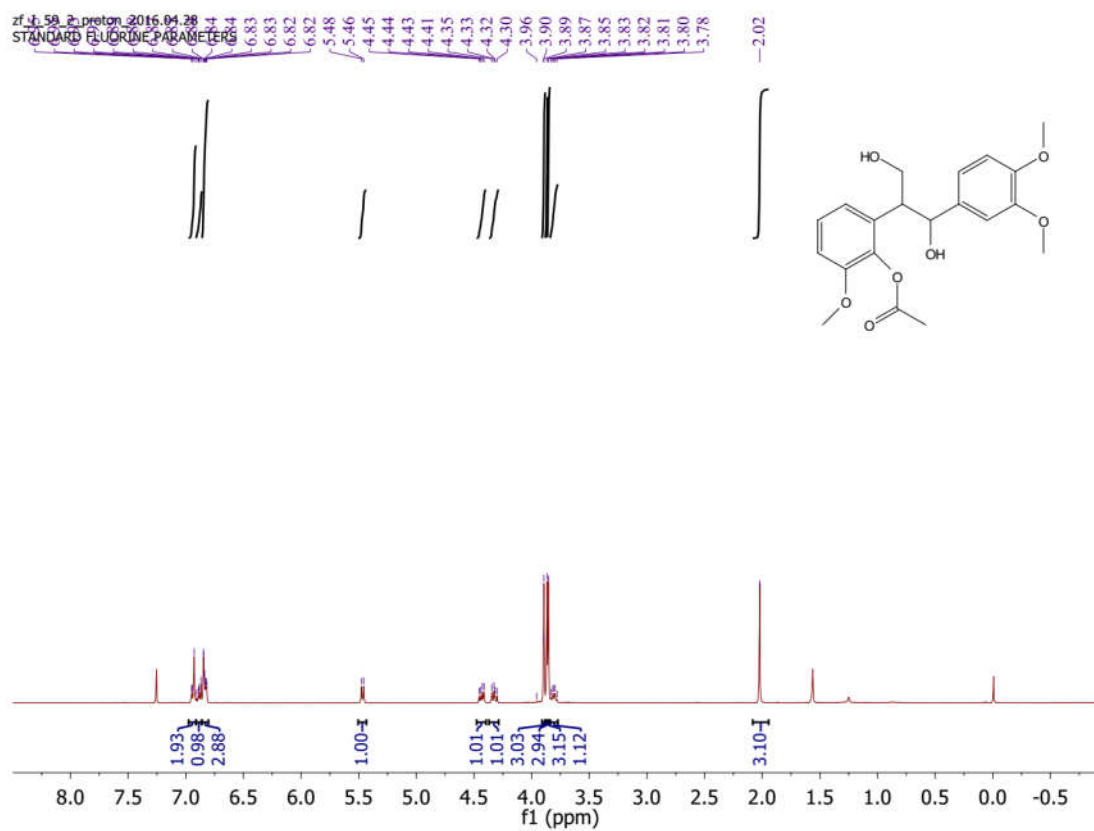
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NMR and HRMS spectra

¹ H NMR and ¹³ C NMR spectra of 15	2
¹ H NMR and ¹³ C NMR spectra of 16	3
¹ H NMR and ¹³ C NMR spectra of 19	4
¹ H NMR and ¹³ C NMR spectra of 20	5
¹ H NMR and ¹³ C NMR spectra of 21 (mixture of diastereomers).....	6
¹ H NMR and ¹³ C NMR spectra of 22 (mixture of diastereomers).....	7
¹ H NMR and ¹³ C NMR spectra of γ -acetate 23	8
¹ H NMR and ¹³ C NMR spectra of γ -acetate 24	9
¹ H NMR and ¹³ C NMR spectra of 25	10
¹ H NMR and ¹³ C NMR spectra of 26	11
¹ H NMR and ¹³ C NMR spectra of 27	12
¹ H NMR and ¹³ C NMR spectra of 28	13
¹ H NMR and ¹³ C NMR spectra of 29	14
HRMS of 15	15
HRMS of 21	15
HRMS of 22	16
HRMS of 26	16
HRMS of 28	17

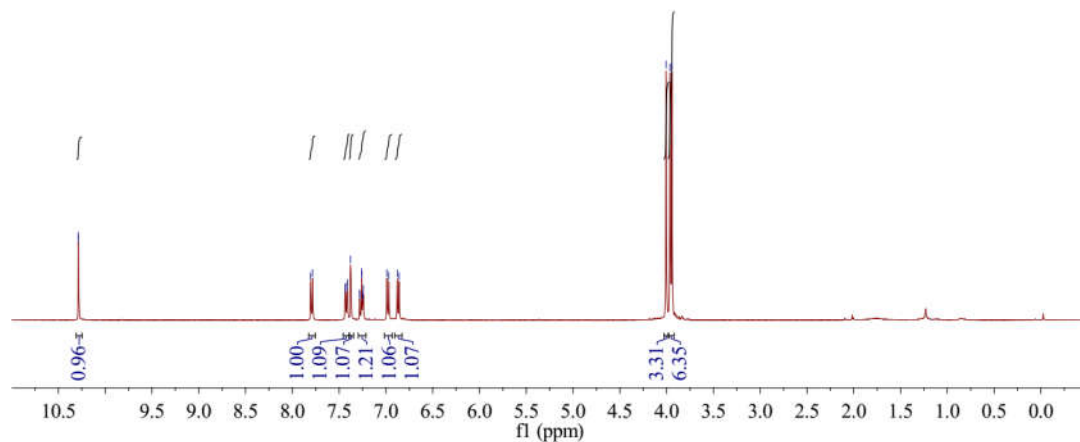
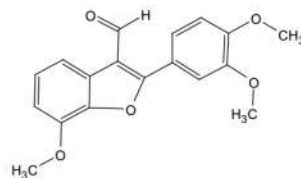
¹H NMR and ¹³C NMR spectra of 15



¹H NMR and ¹³C NMR spectra of 16

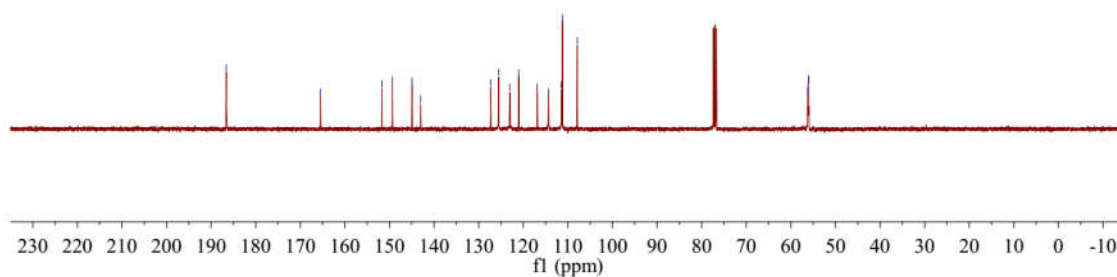
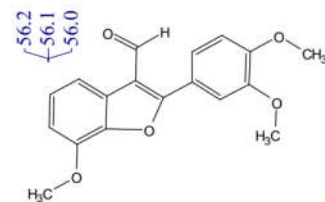
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8" Ref. of 3/21(?) / 14
mshim zl-z2
after probe change 11/16/14
rg=20 spin= 0 25.0 C
lk=27 lp=12 lg=37
z0=-7840 lph=177
thing1 P3727
11/18/14 WJL

4.01
3.97
3.94

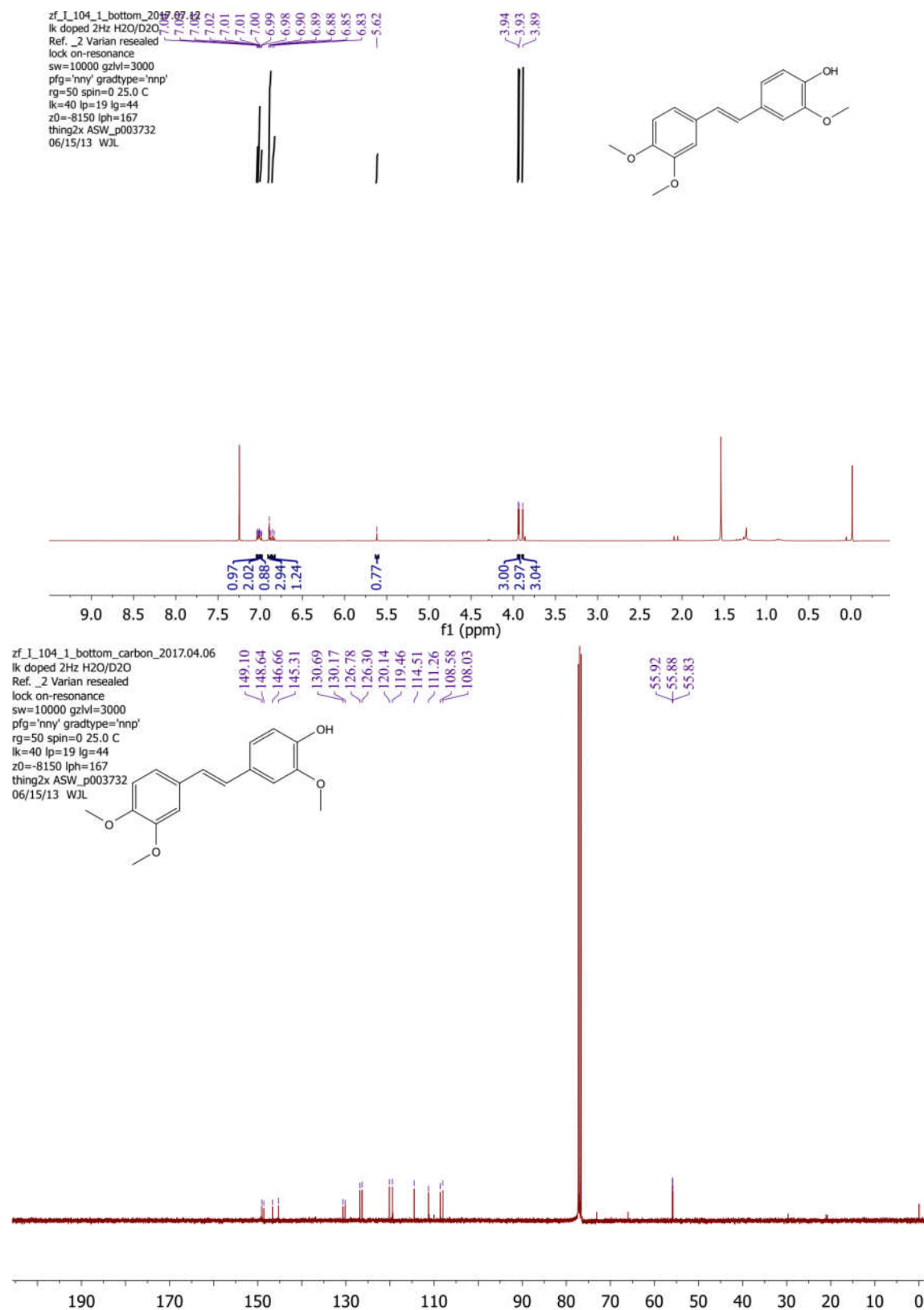


zf_1_52-1 carbon 2015.09.04
lk D20 + 1.6mg GdCl3.6H2O
8" Ref. of 3/21(?) / 14
mshim zl-z2
after probe change 11/16/14
rg=20 spin= 0 25.0 C
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z0=-7840 lph=177
thing1 P3727
11/18/14 WJL

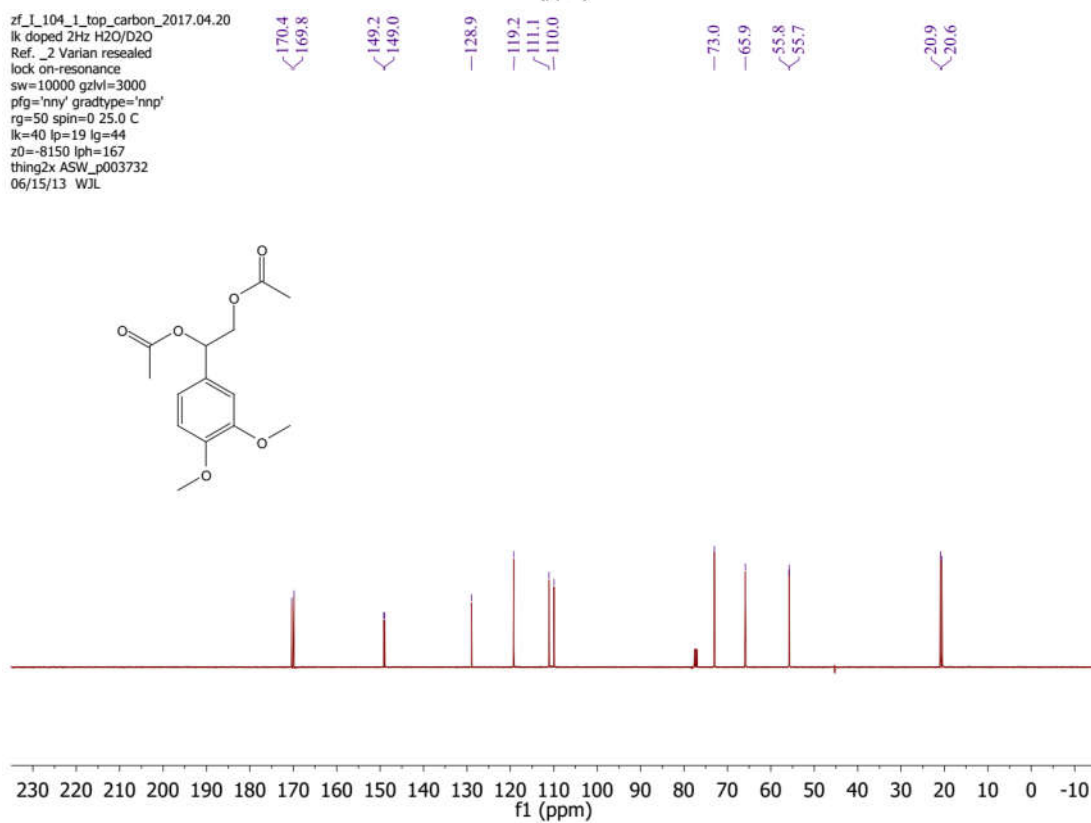
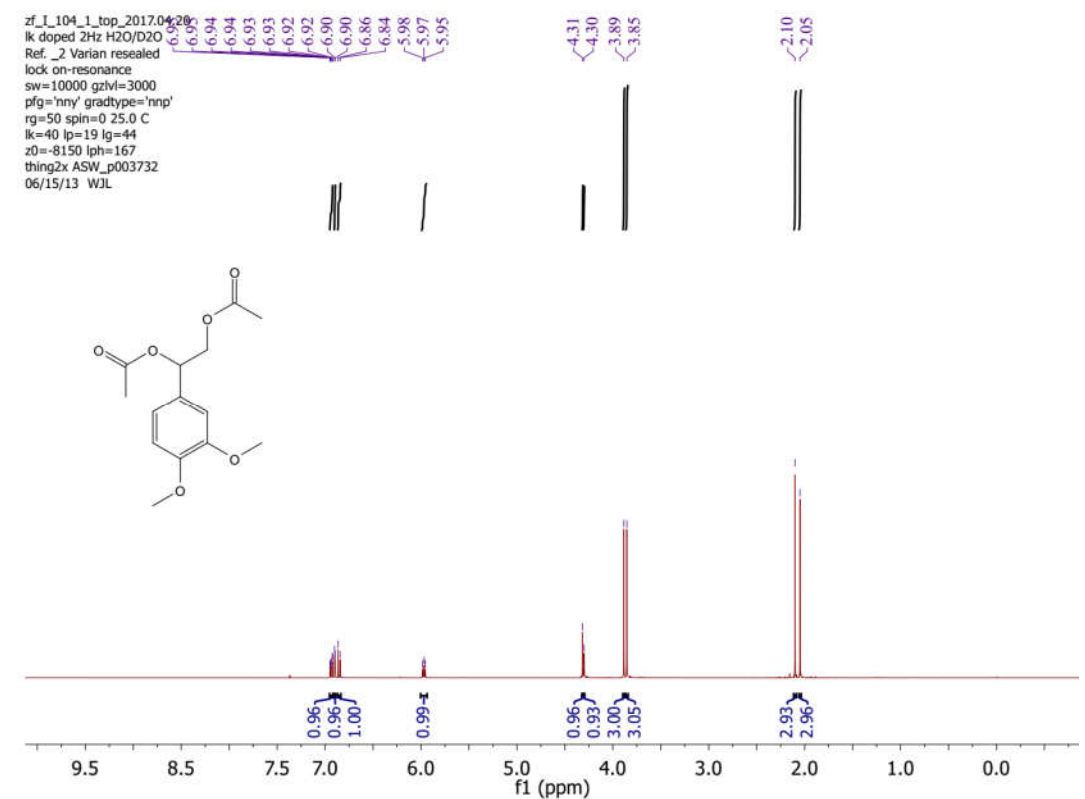
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151.7
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144.9
143.0
127.3
125.6
123.0
121.0
116.9
114.4
111.5
111.2
107.9



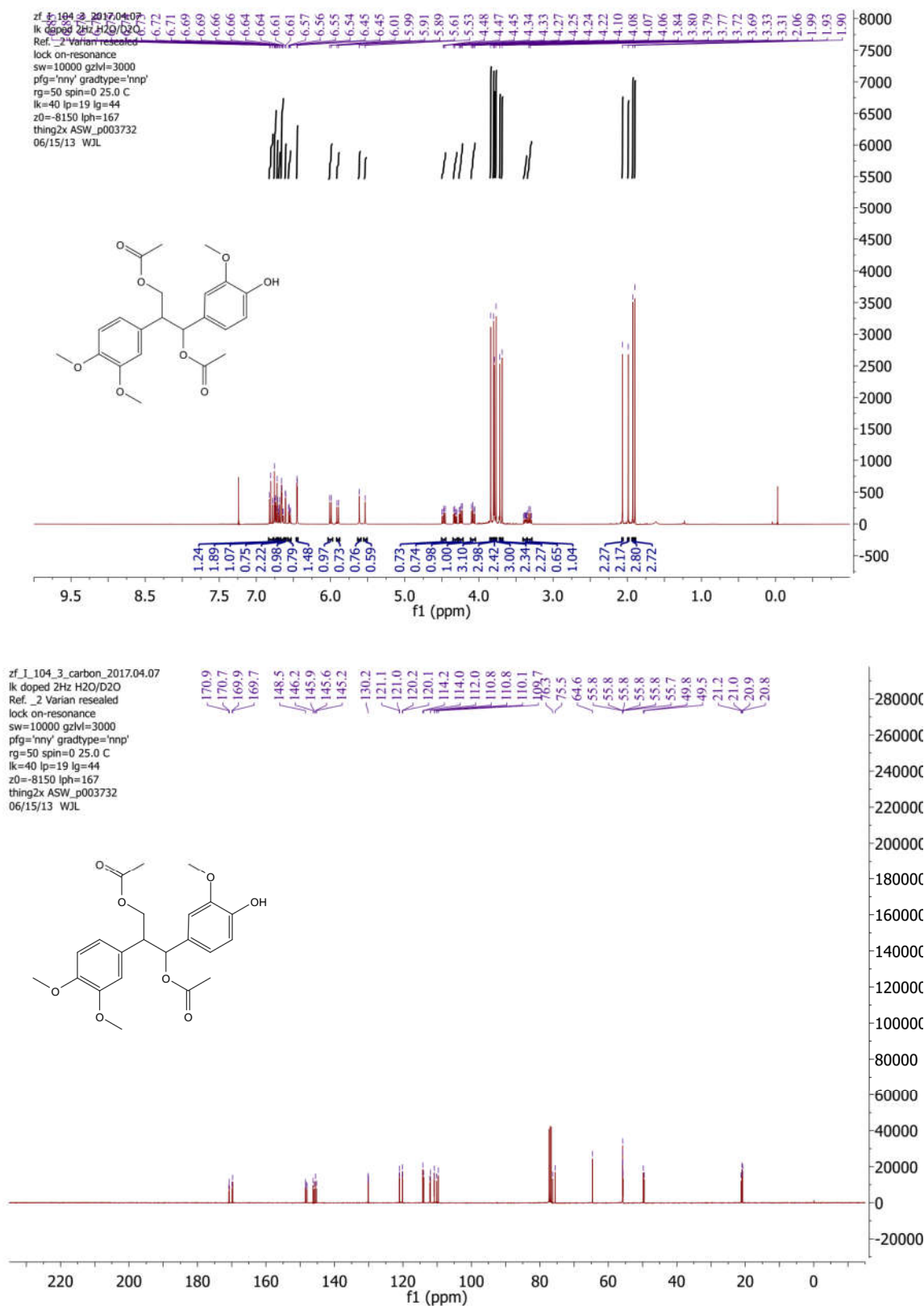
¹H NMR and ¹³C NMR spectra of 19



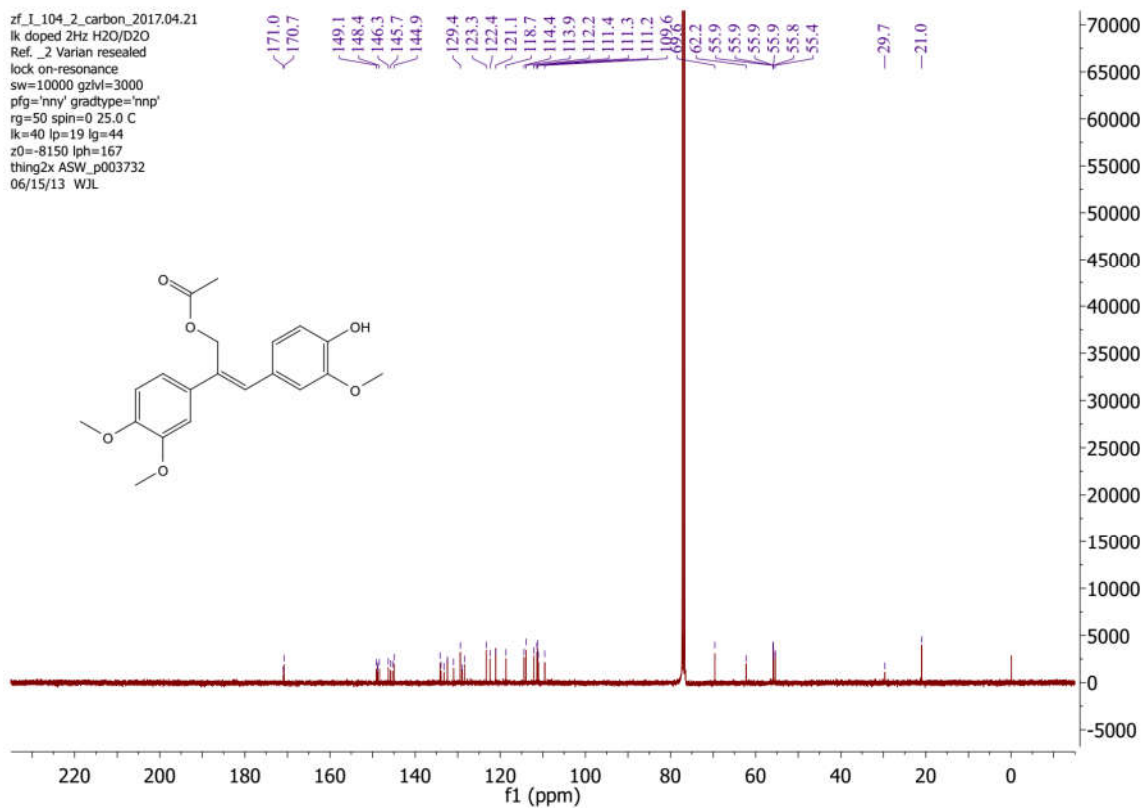
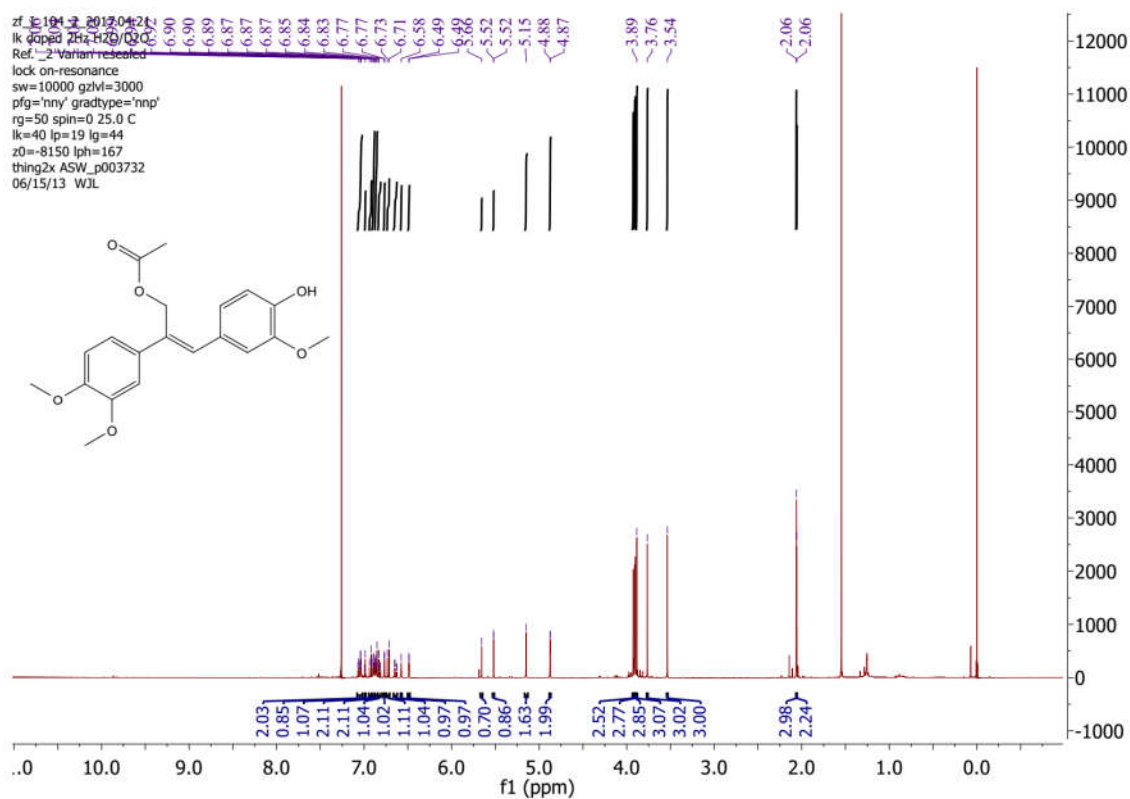
¹H NMR and ¹³C NMR spectra of 20



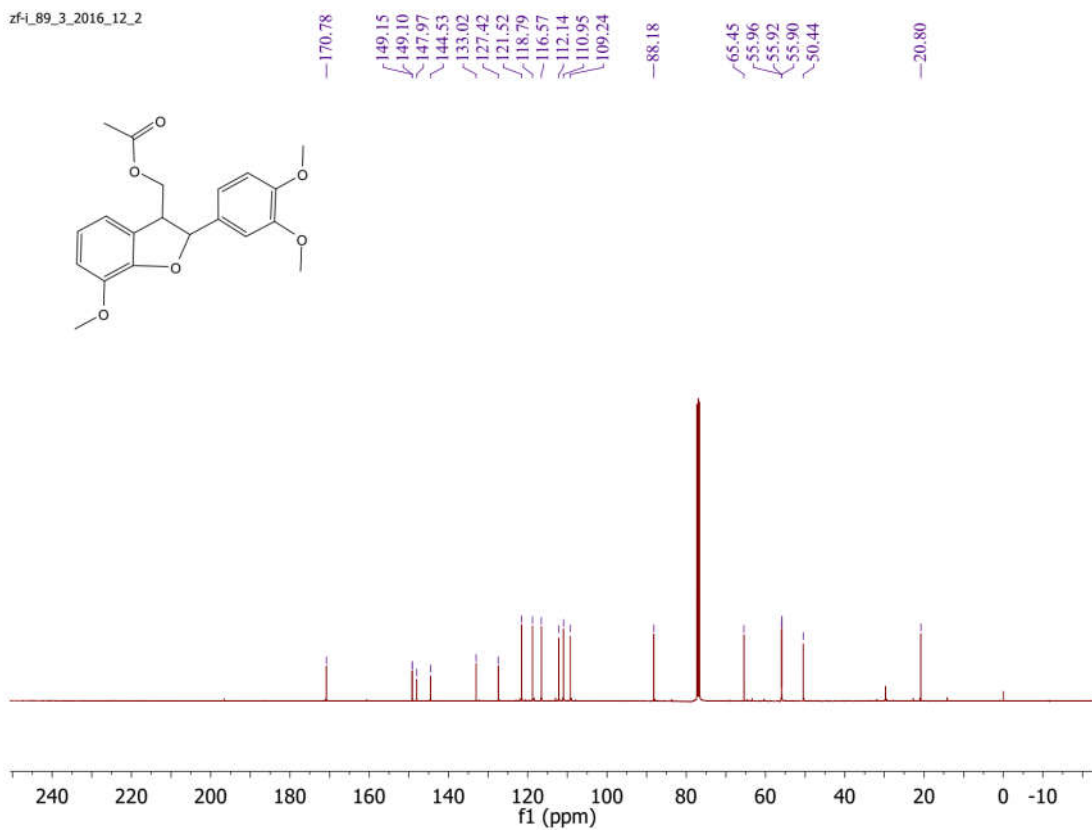
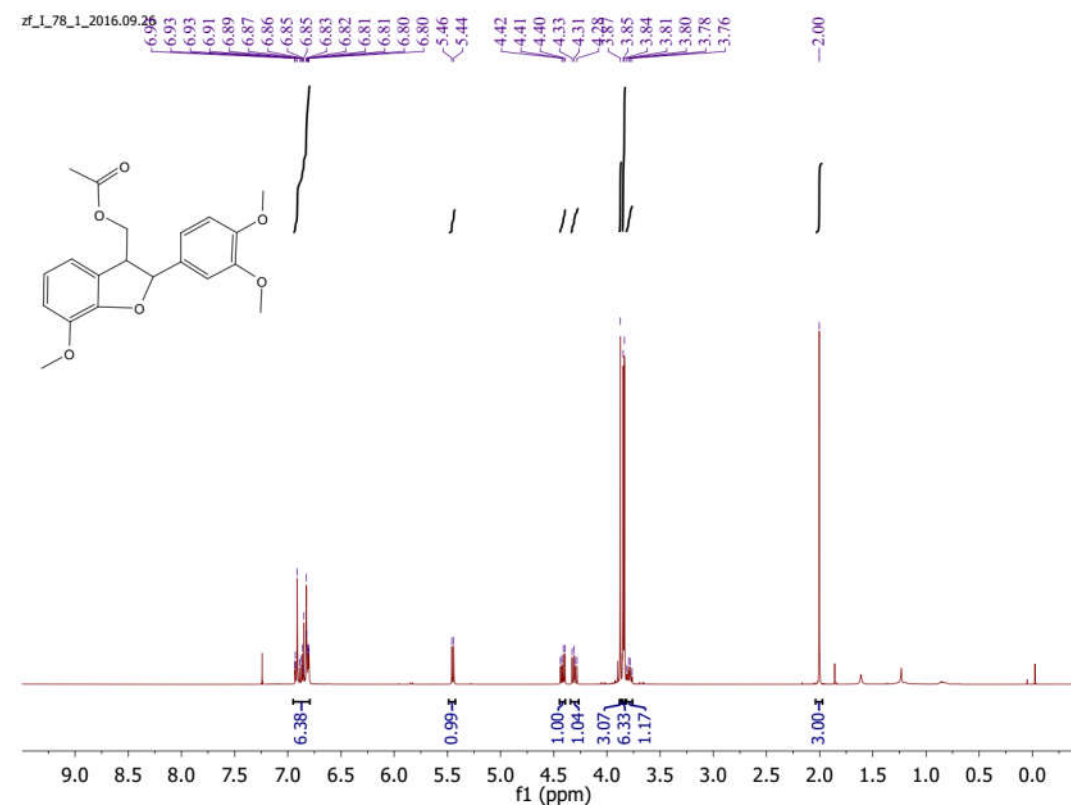
^1H NMR and ^{13}C NMR spectra of 21 (mixture of diastereomers)



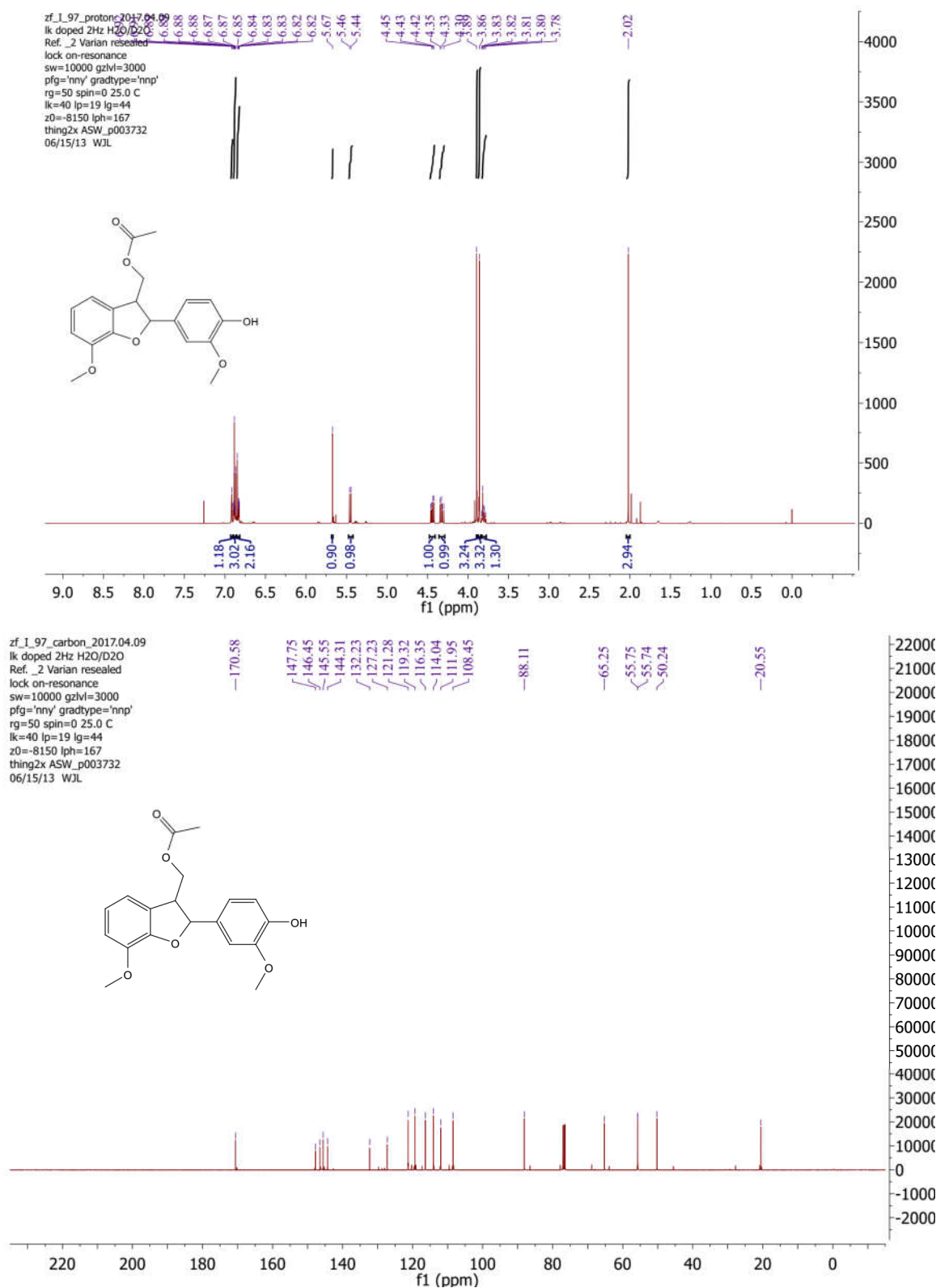
¹H NMR and ¹³C NMR spectra of 22 (mixture of diastereomers)



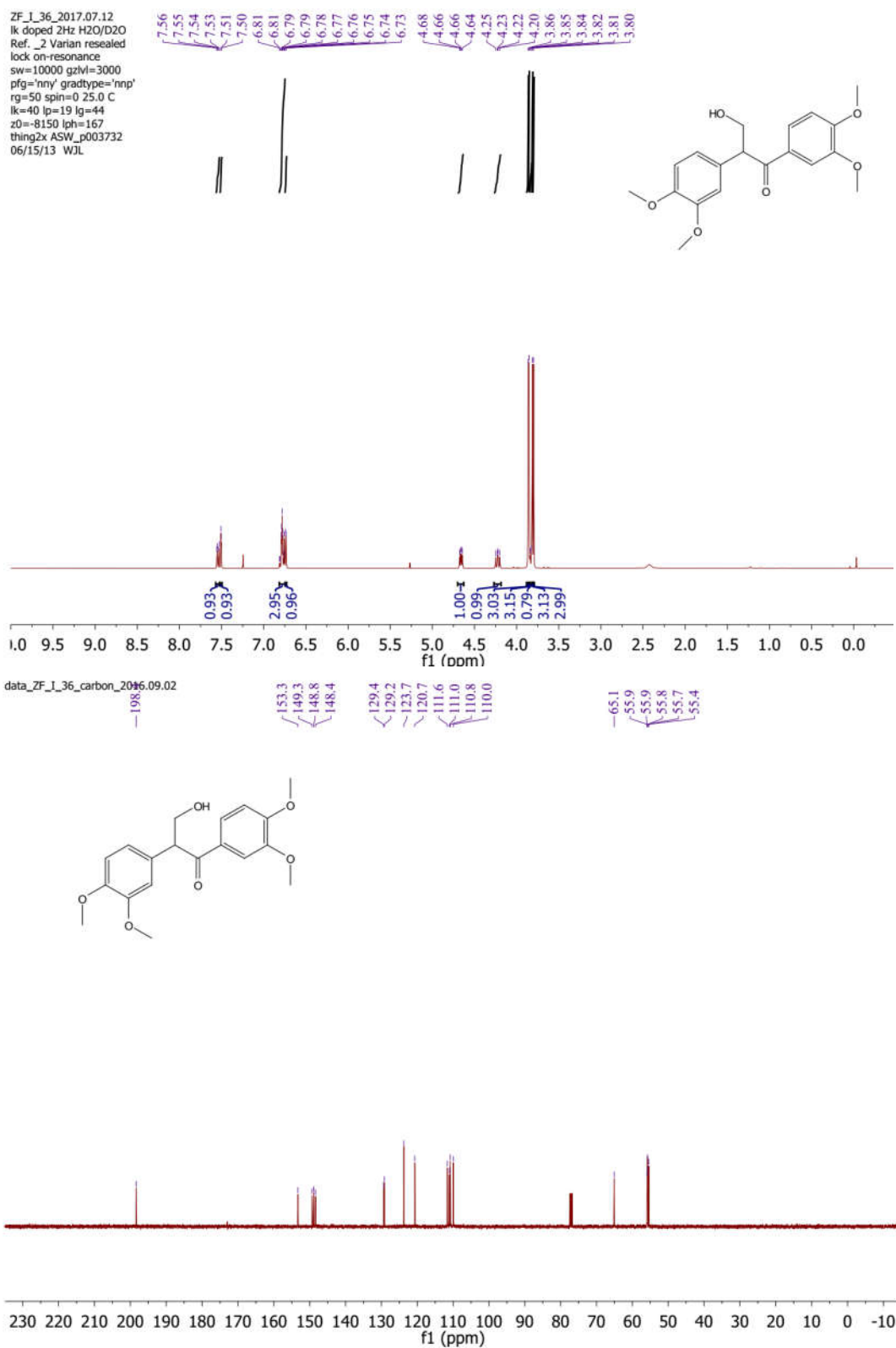
^1H NMR and ^{13}C NMR spectra of γ -acetate 23



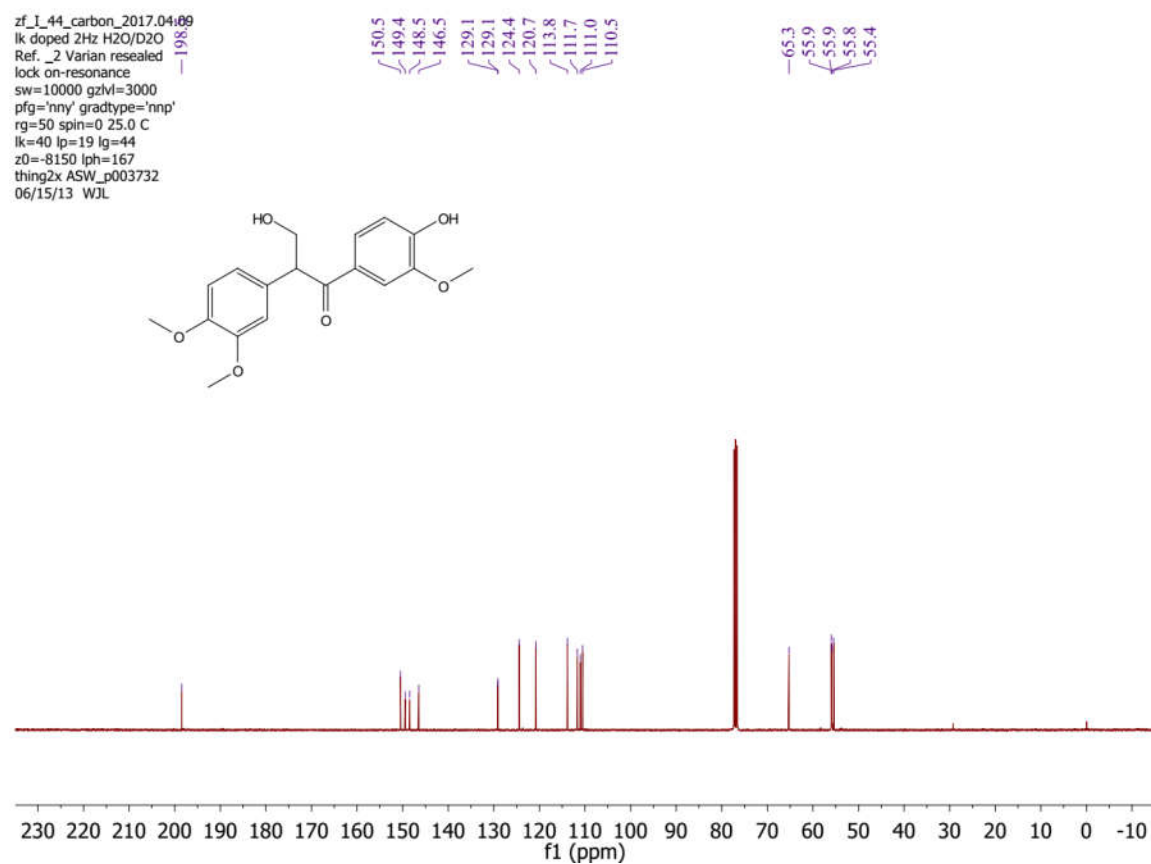
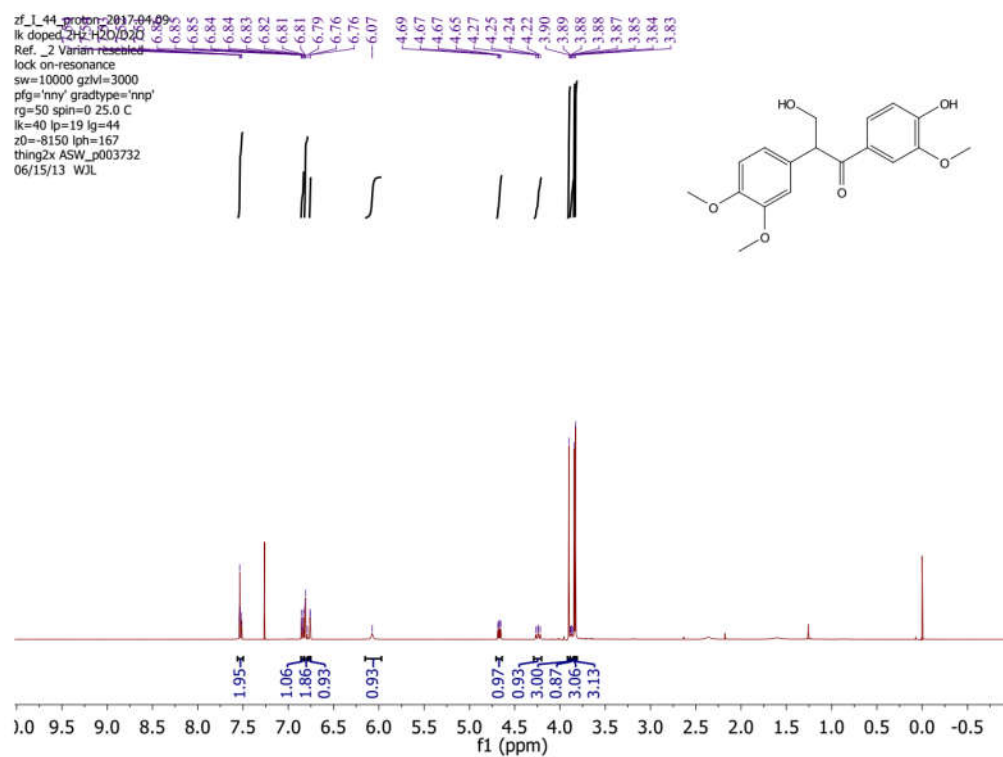
^1H NMR and ^{13}C NMR spectra of γ -acetate 24



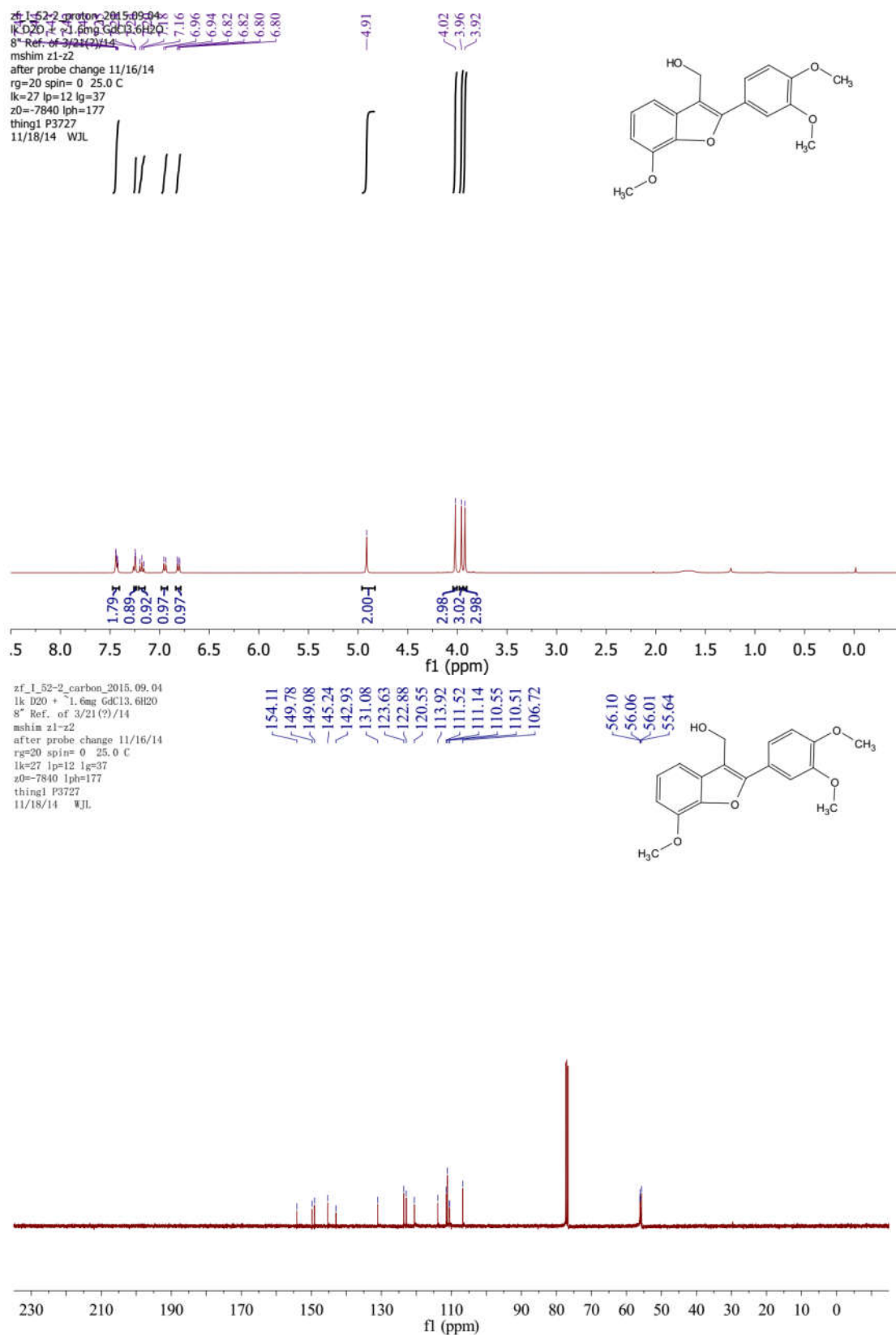
¹H NMR and ¹³C NMR spectra of 25



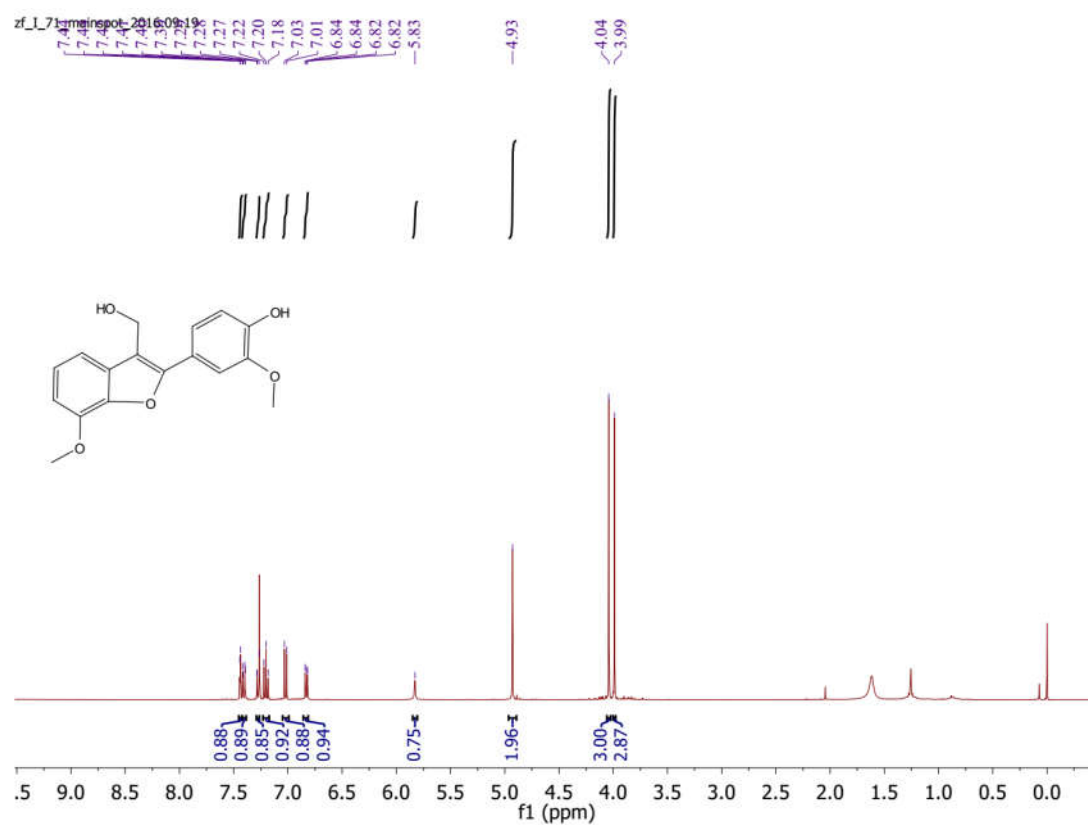
¹H NMR and ¹³C NMR spectra of 26



¹H NMR and ¹³C NMR spectra of 27



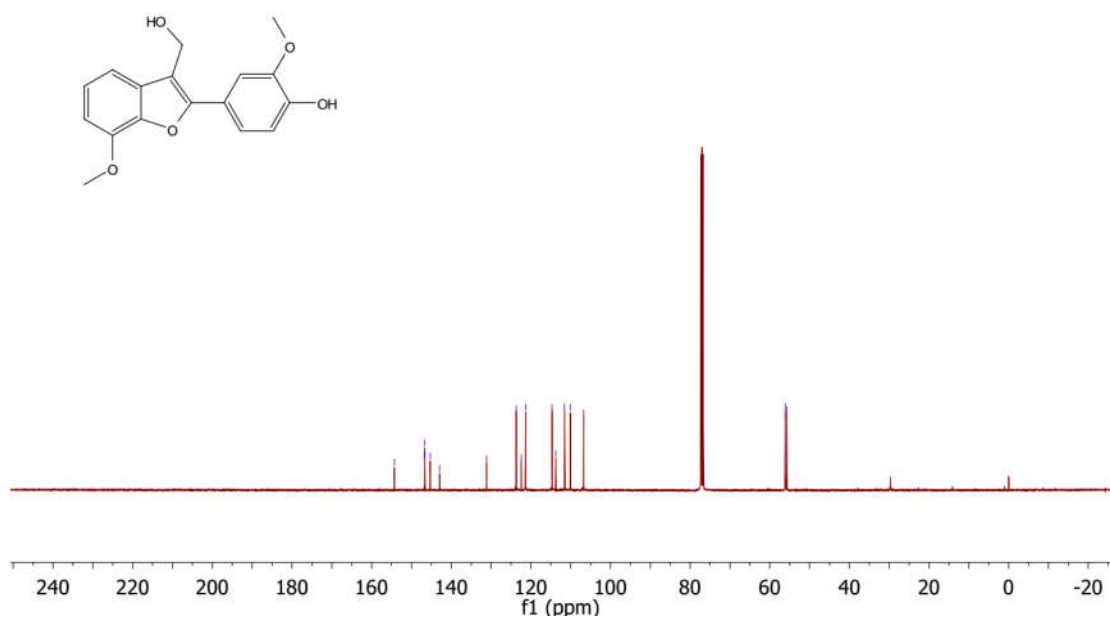
¹H NMR and ¹³C NMR spectra of 28



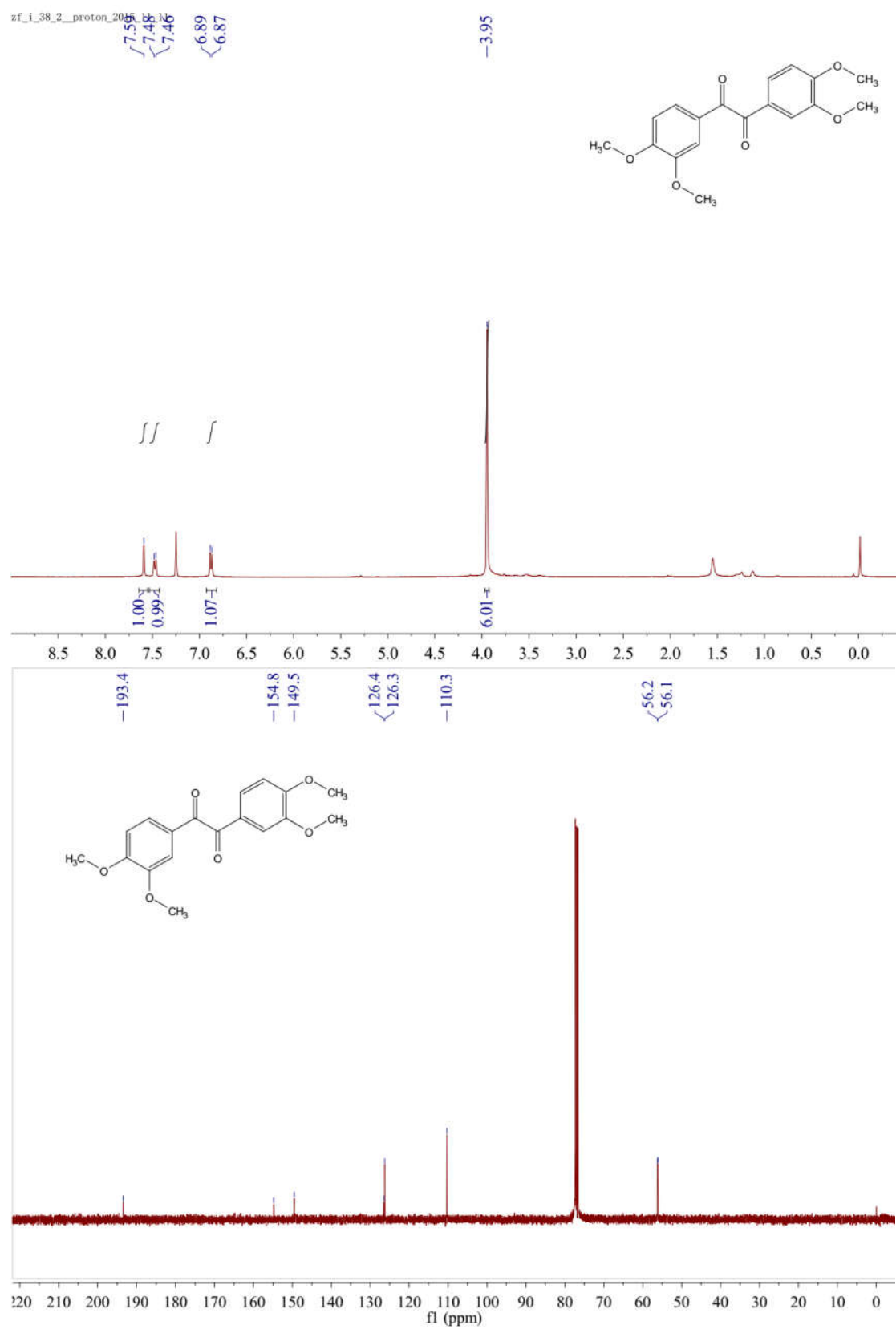
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Bio-diesel Experiment
Adkins Emma L
25-233 loc=0

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146.7
146.6
145.3
142.9
131.1
123.7
122.4
121.3
114.7
113.7
111.5
110.0
106.7
56.2
56.1
55.7

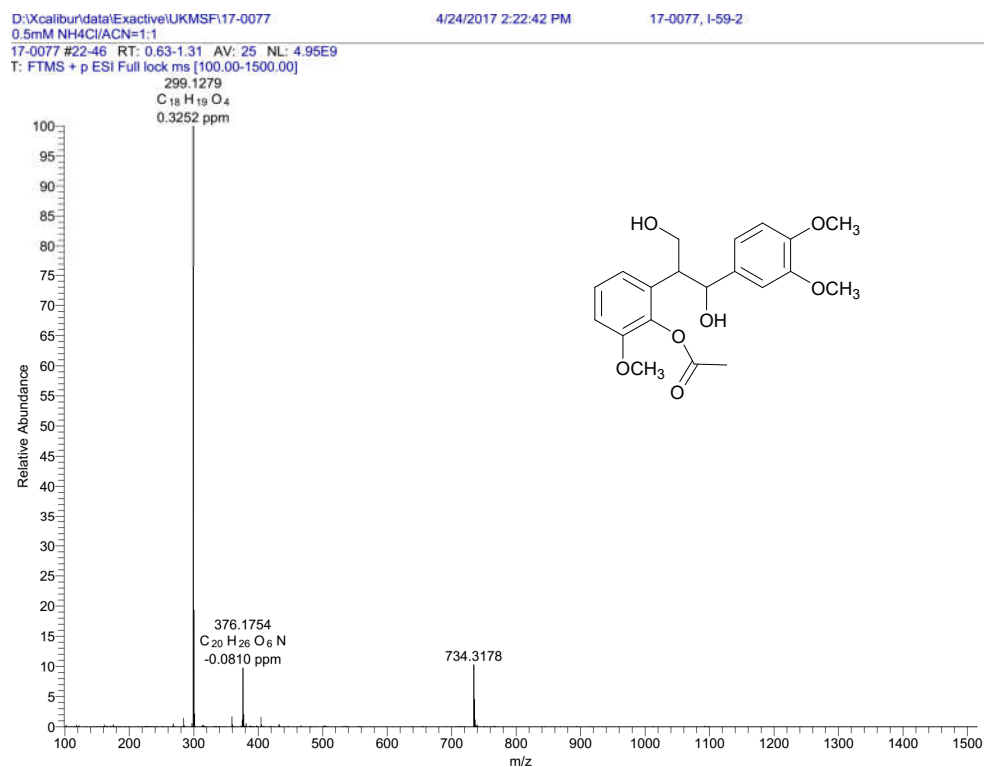
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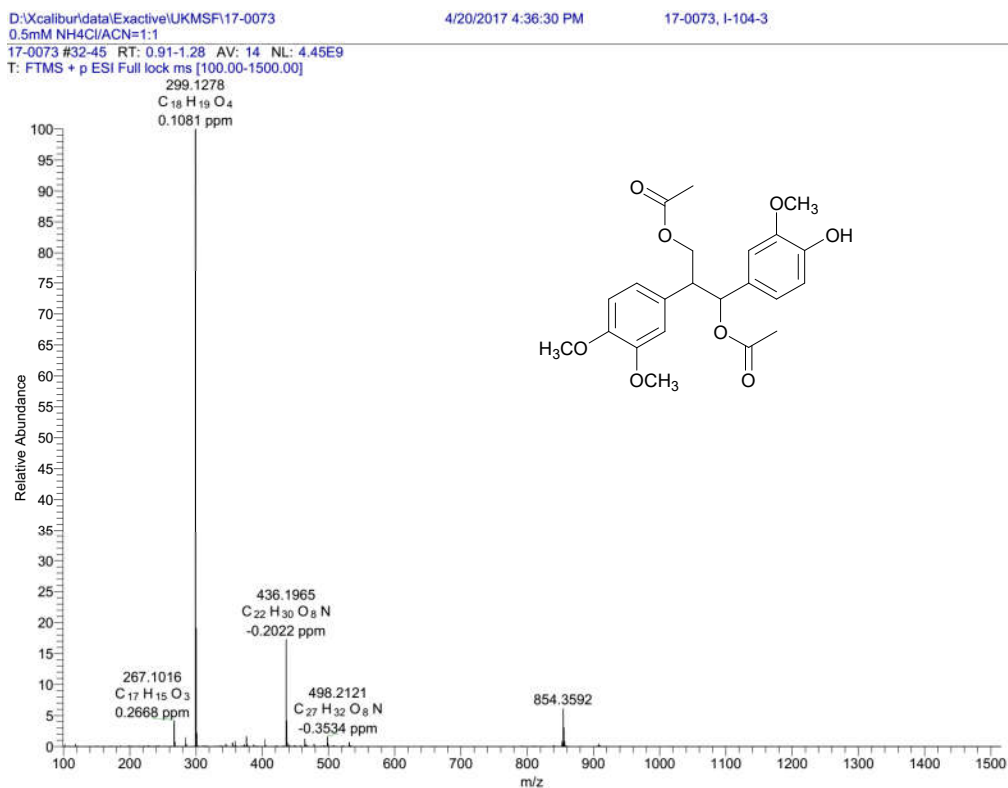
^1H NMR and ^{13}C NMR spectra of 29



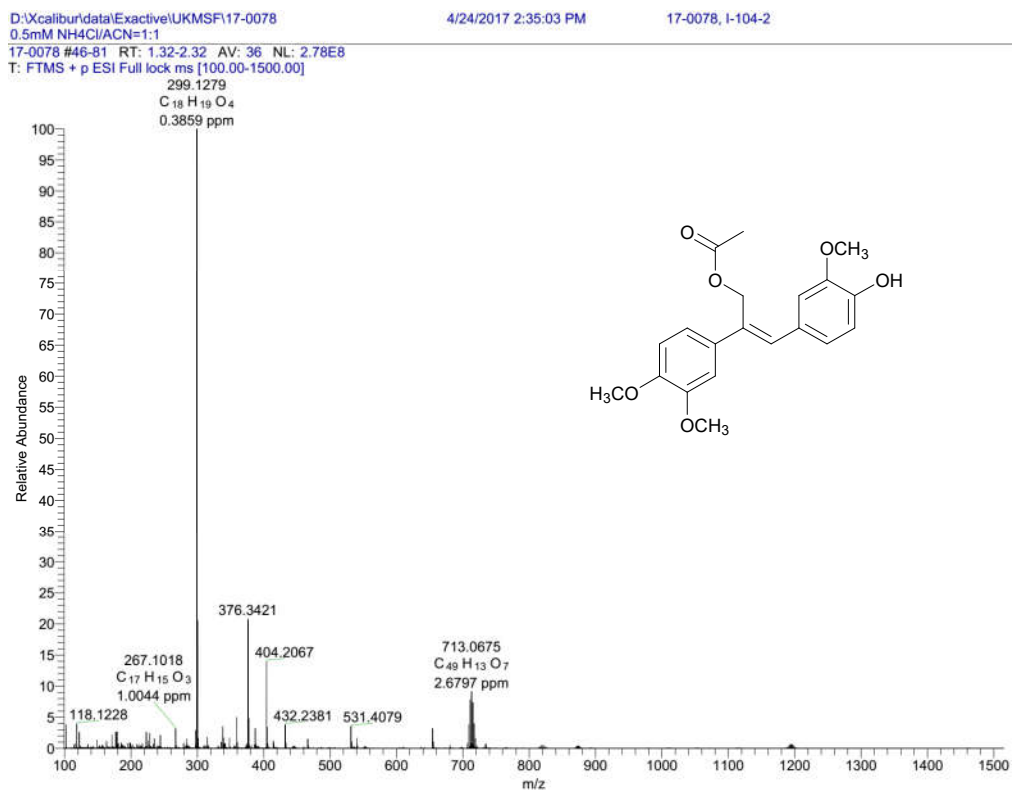
HRMS of 15



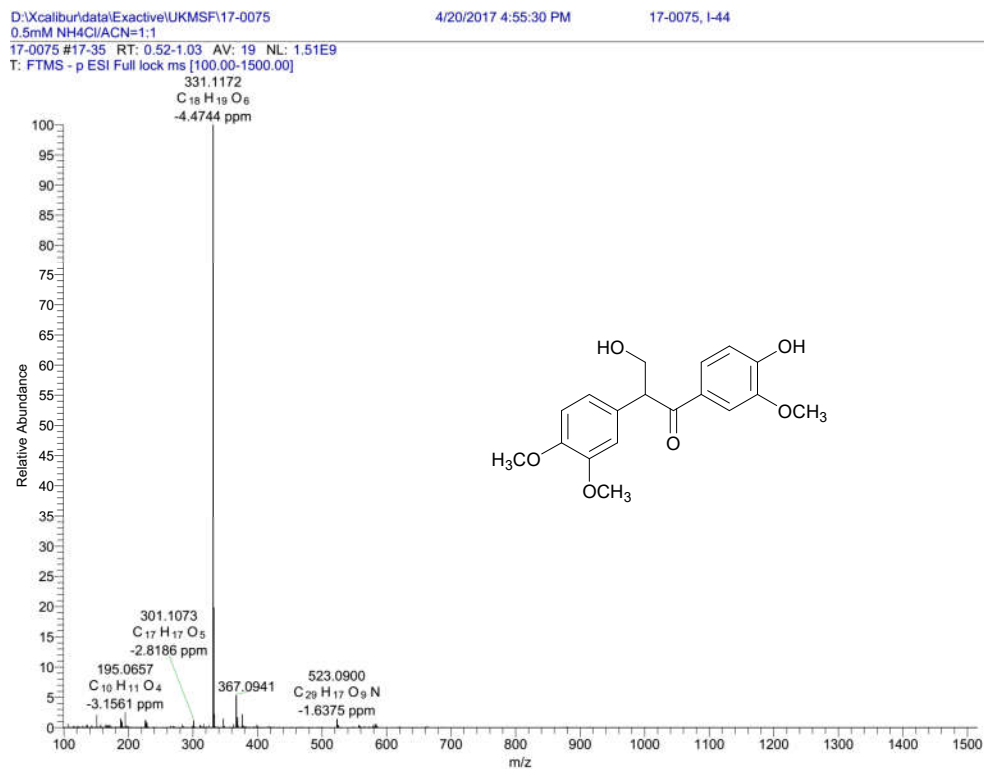
HRMS of 21



HRMS of 22



HRMS of 26



HRMS of 28

