

Supplementary Information for:

Cleavage and Hydrodeoxygenation (HDO) of C-O Bonds Relevant to Lignin Conversion Using Pd/Zn Synergistic Catalysis

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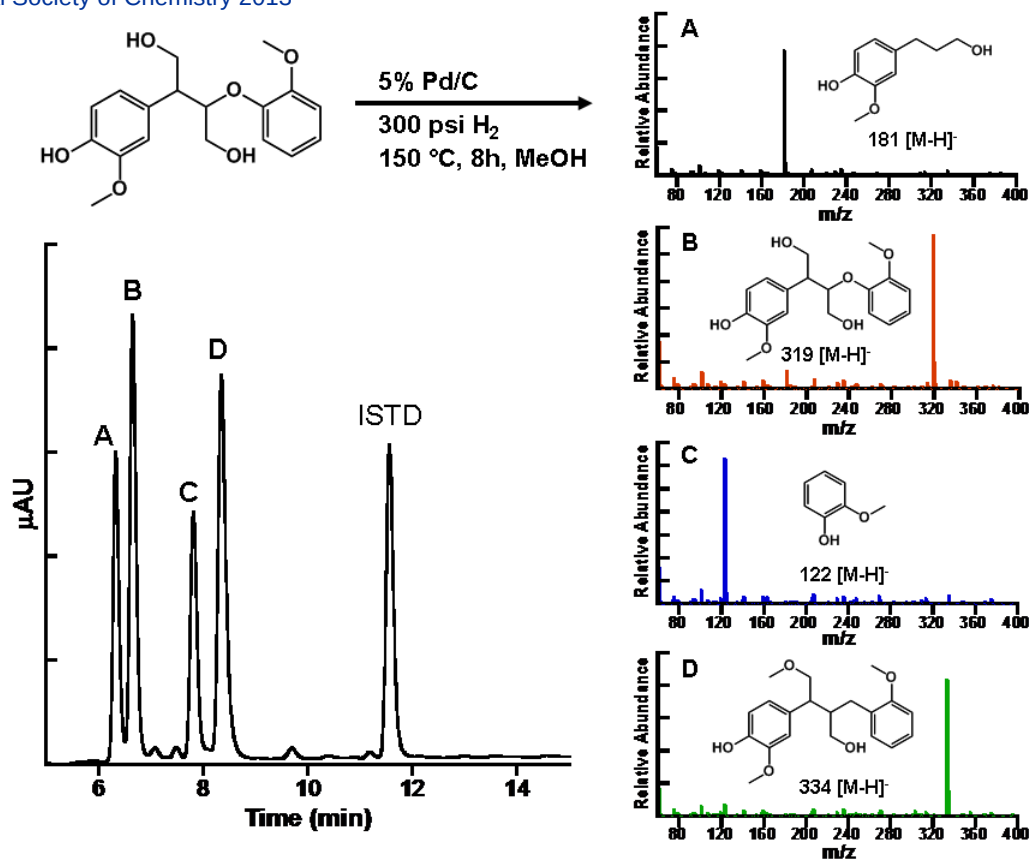


Figure S1. HPLC/UV and (-)ESI MS analysis of the products resulting from the control experiment with guaiacylglycerol- β -guaiacyl ether and Pd/C without ZnCl₂.

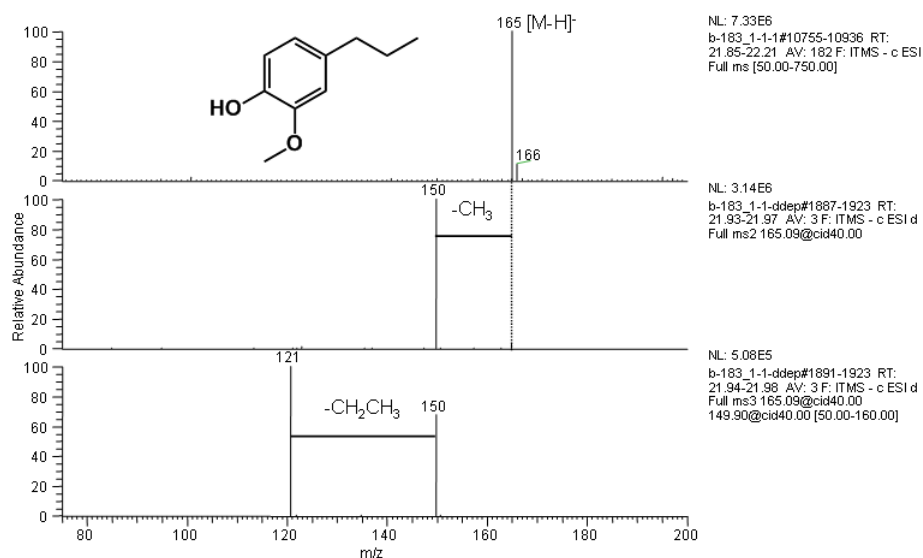


Figure S2. Collision-Activated Dissociation (CAD) spectrum of 2-methoxy-4-propylphenol (propyl guaiacol).

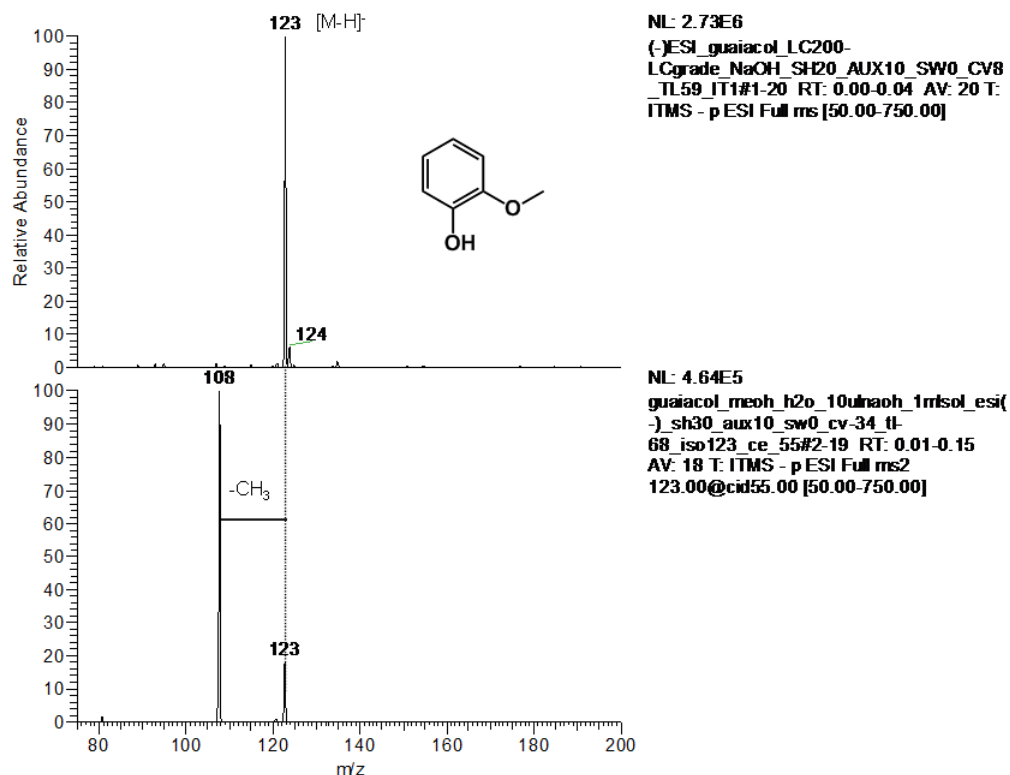


Figure S3. CAD spectrum of 2-methoxyphenol (cresol).

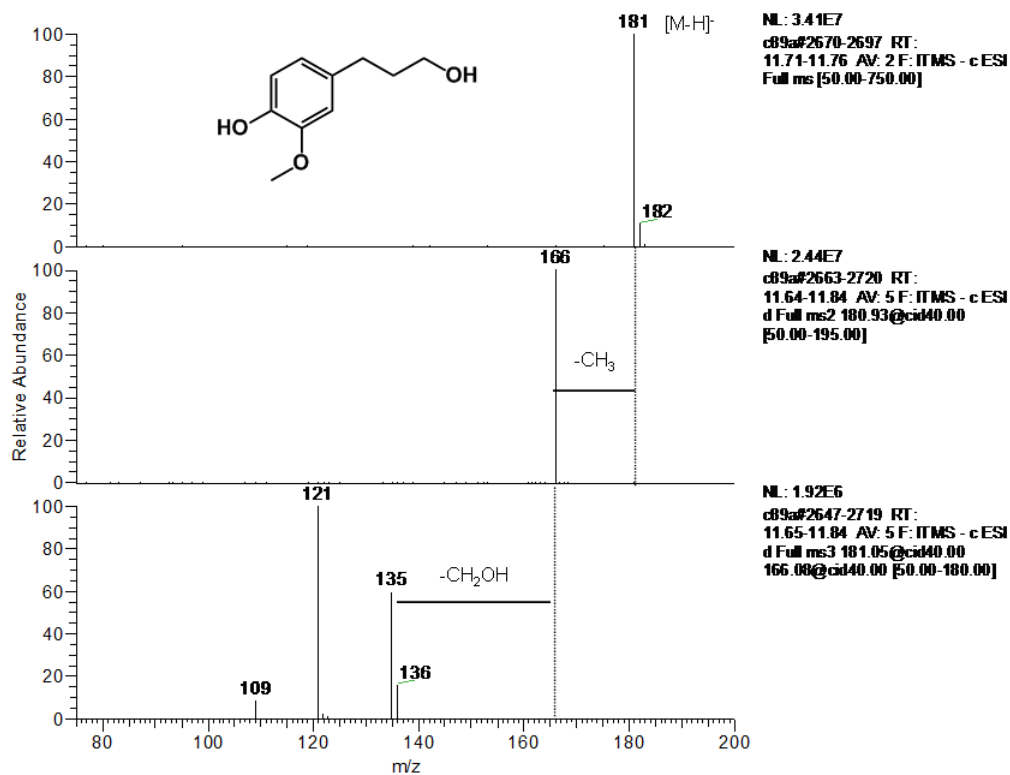


Figure S4. CAD spectrum of 3-(3-methoxy-4-hydroxyphenyl)-1-propanol.

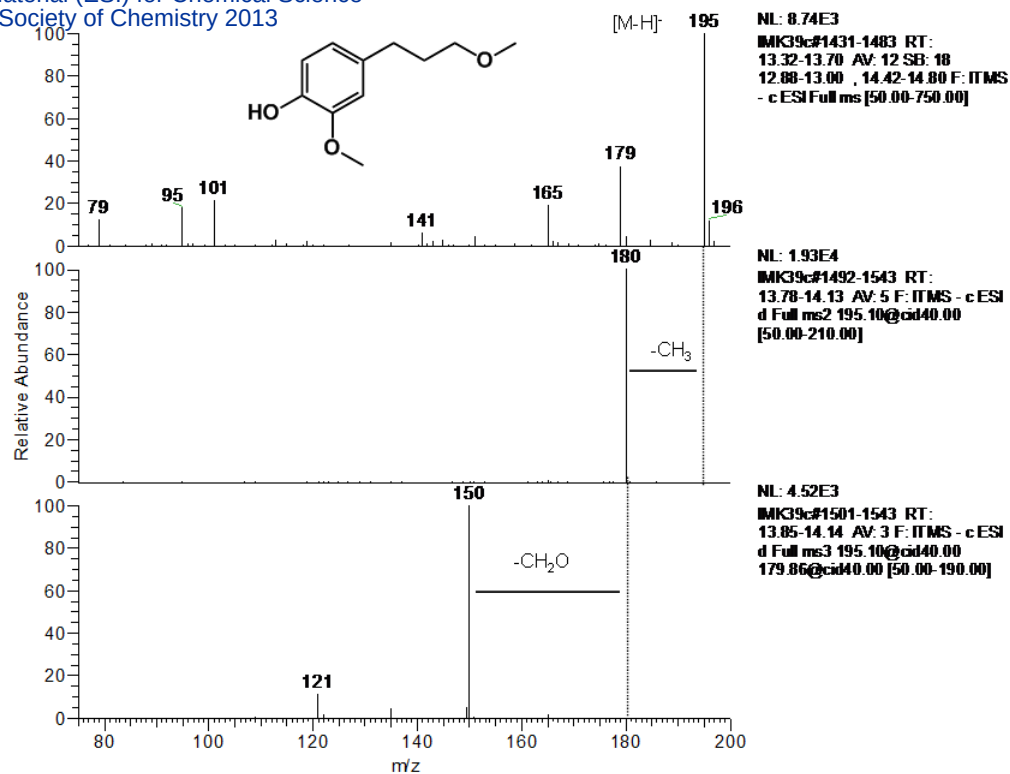


Figure S5. CAD spectrum of 2-methoxy-4-(3-methoxypropyl)-phenol.

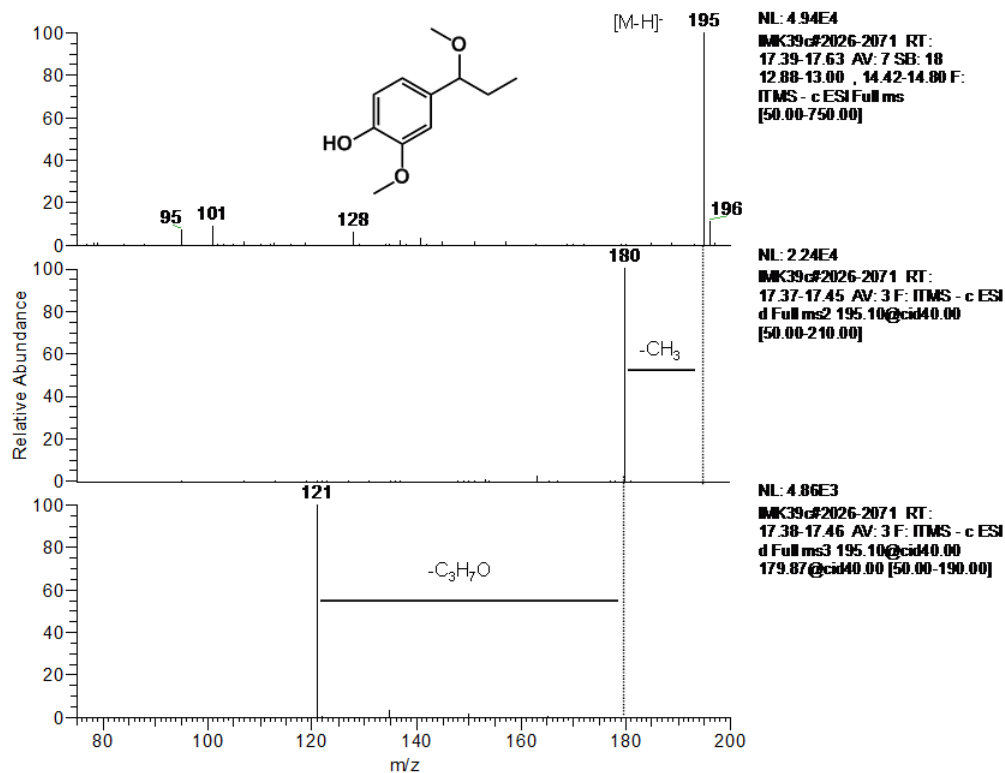


Figure S6. CAD spectrum of 2-methoxy-4-(1-methoxypropyl)-phenol.

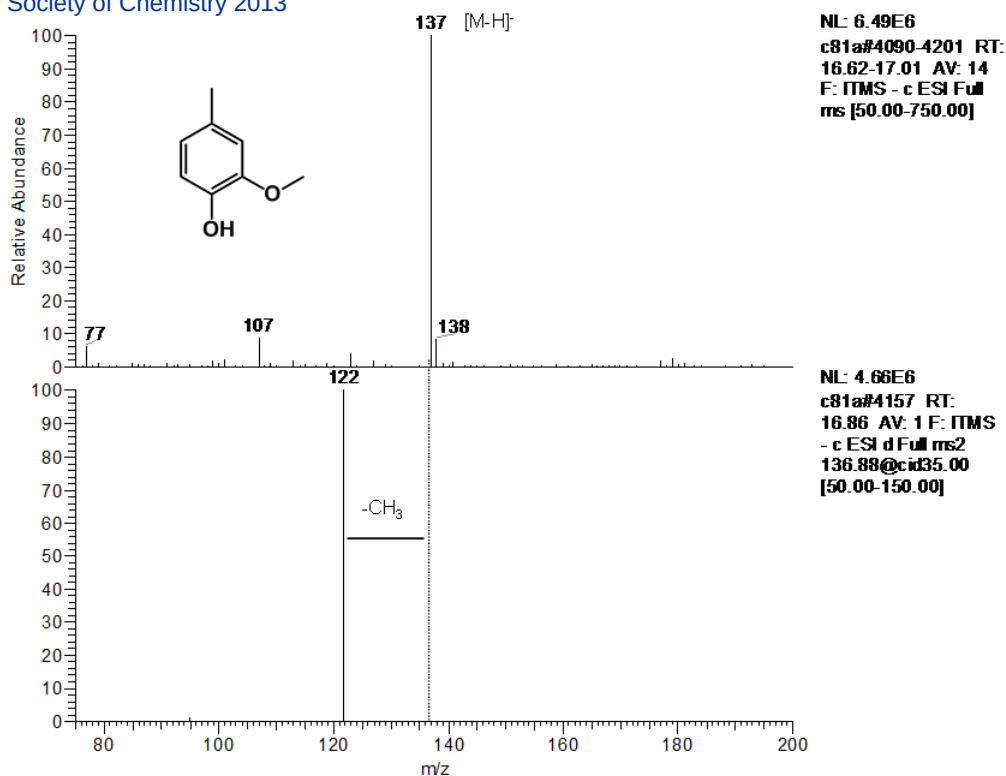


Figure S7. CAD spectrum of 2-methoxy-4-methylphenol.

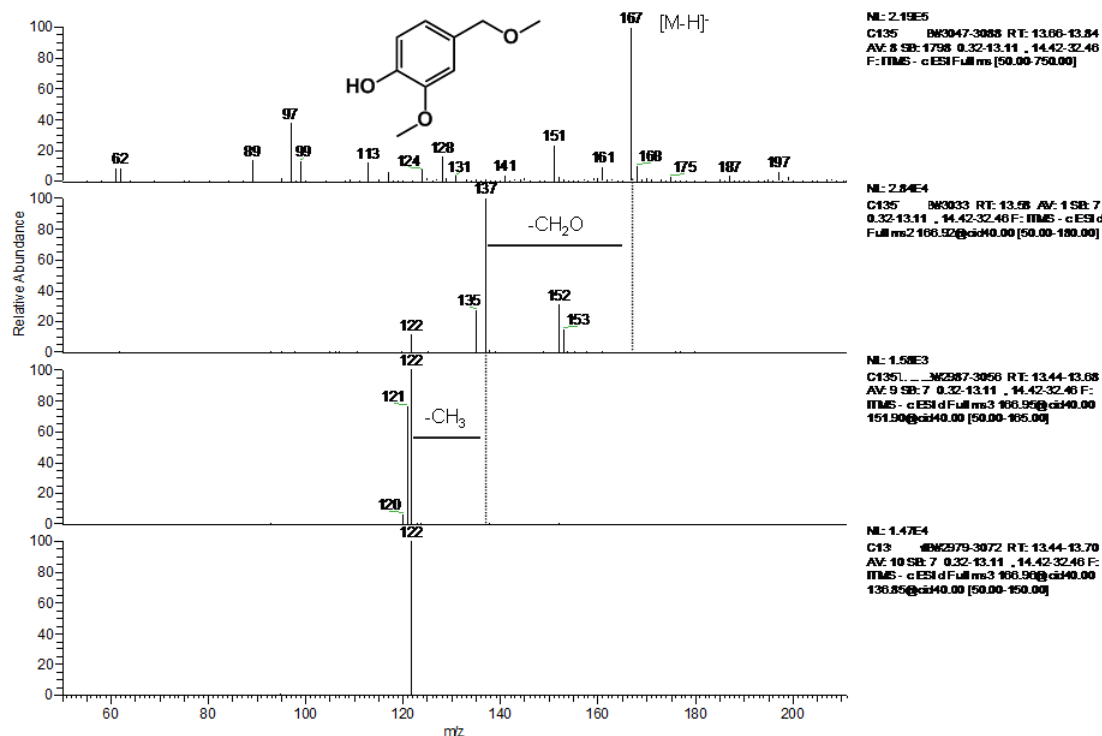


Figure S8. CAD spectrum of 2-methoxy-4-(methoxymethyl)-phenol.

Analysis	Method	Result	Basis	Amount	Date (Time)
<i>C: Carbon</i>					
	GLI Procedure ME-3	78.21 %	As Received	1.015 mg	2011-12-16
<i>Pd: Palladium</i>					
	GLI Procedure ME-70	4.70 %	As Received	30.30 mg	2011-12-14
<i>Zn: Zinc</i>					
	GLI Procedure ME-70	2.53 %	As Received	30.30 mg	2011-12-14

Figure S9. Elemental analysis of prepared Zn/Pd/C catalyst