

Highly Effective, Regiospecific Hydrogenation of Methoxychalcone by *Yarrowia lipolytica* Enables Production of Food Sweeteners

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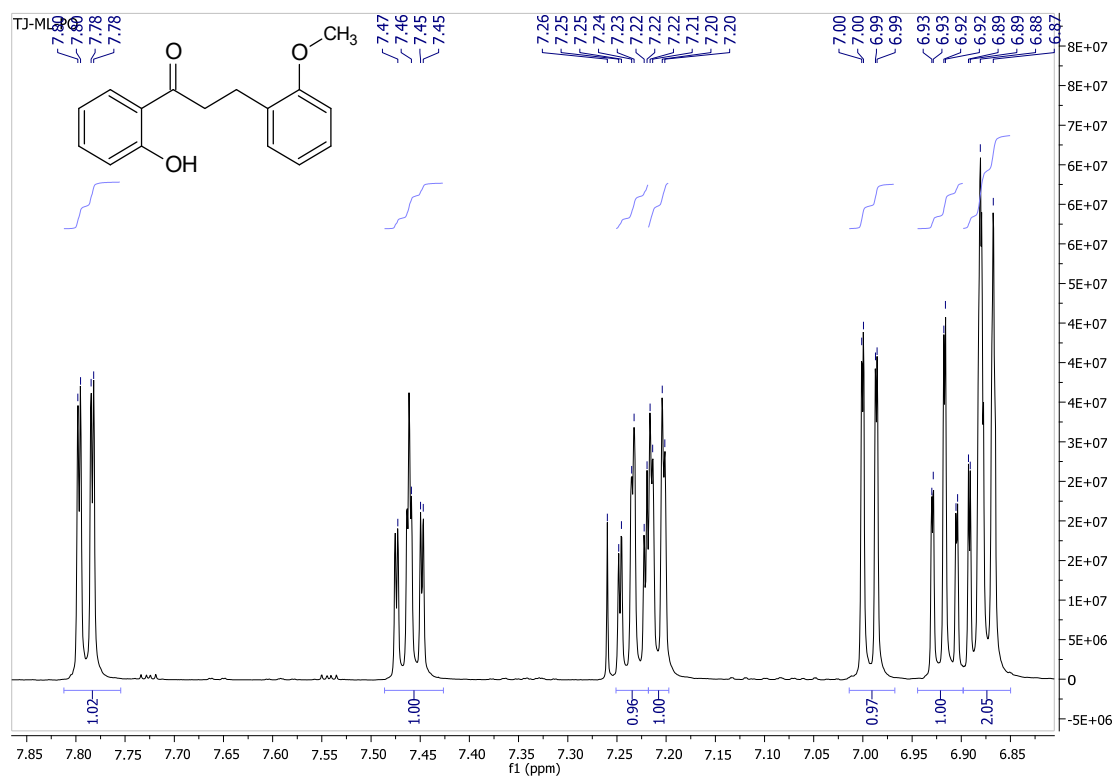
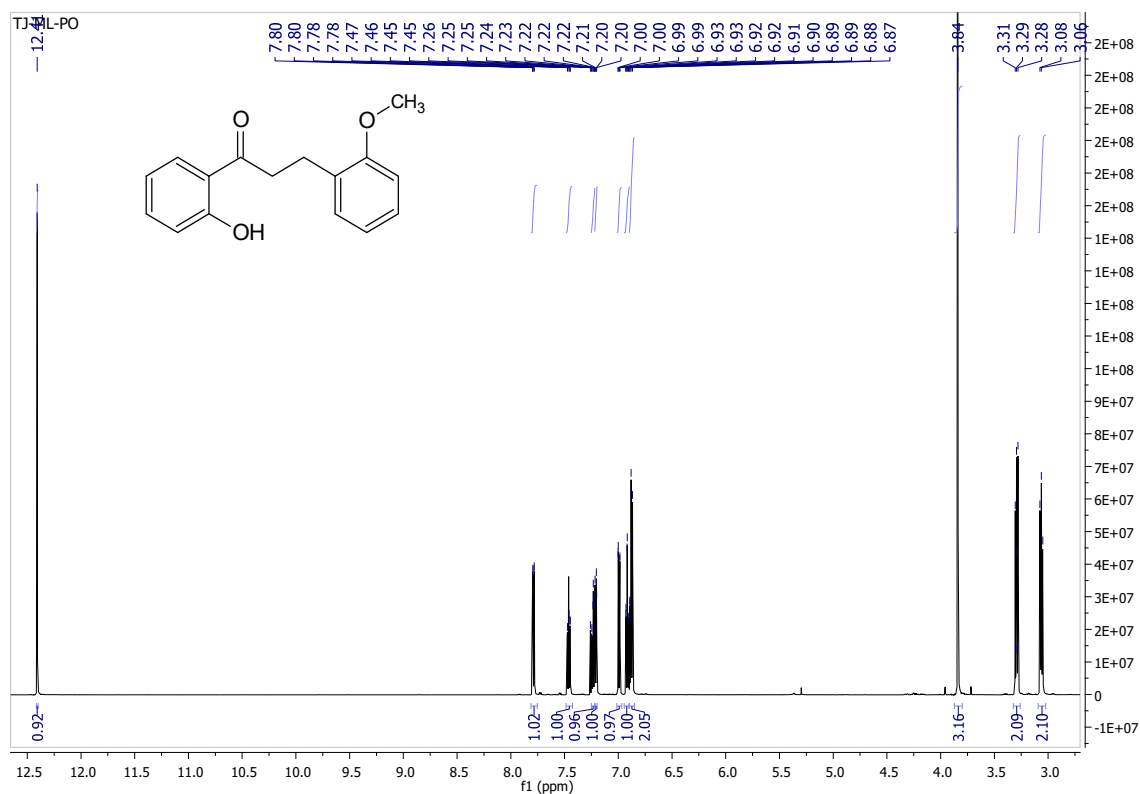
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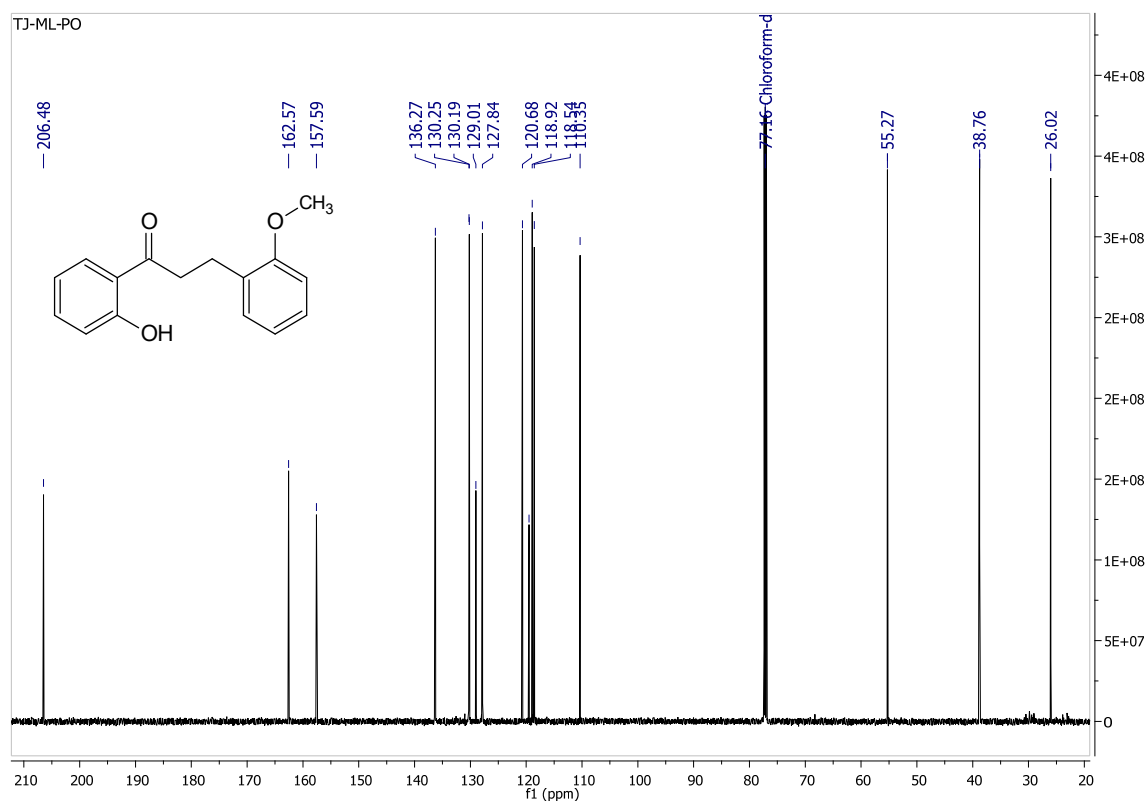


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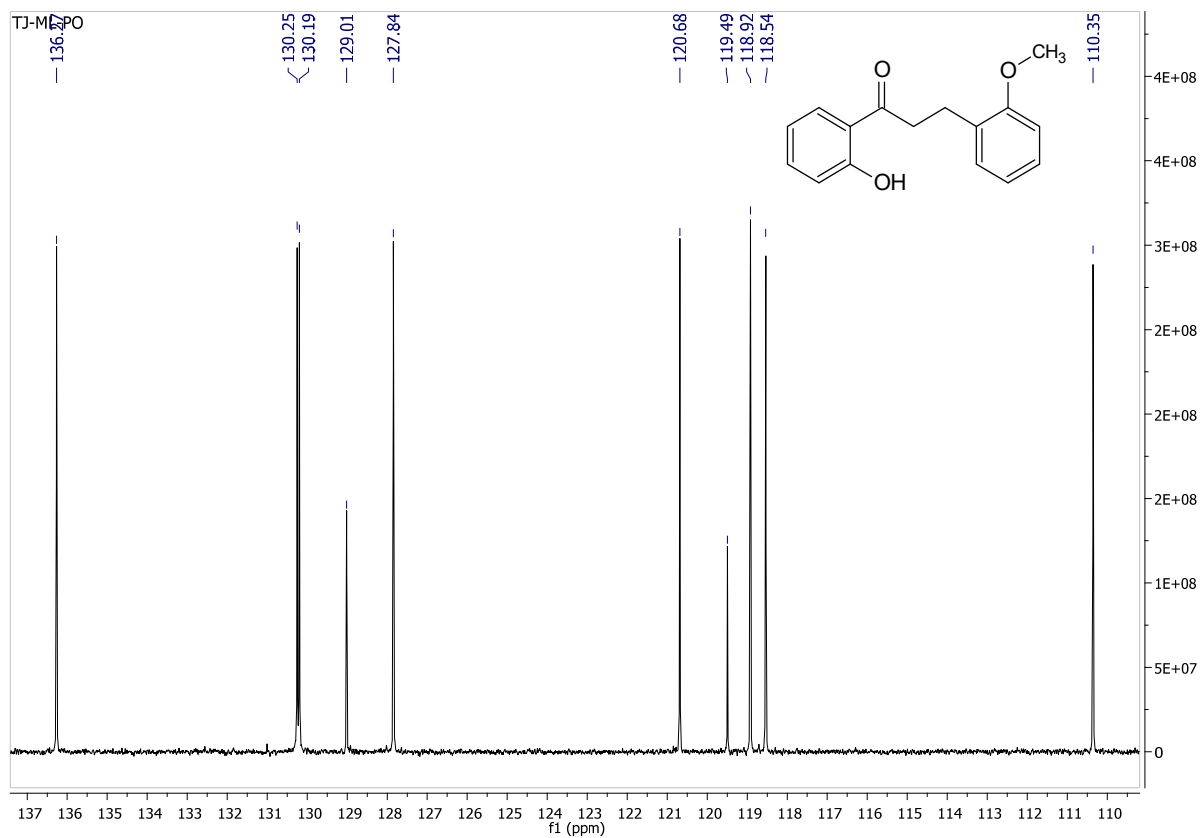


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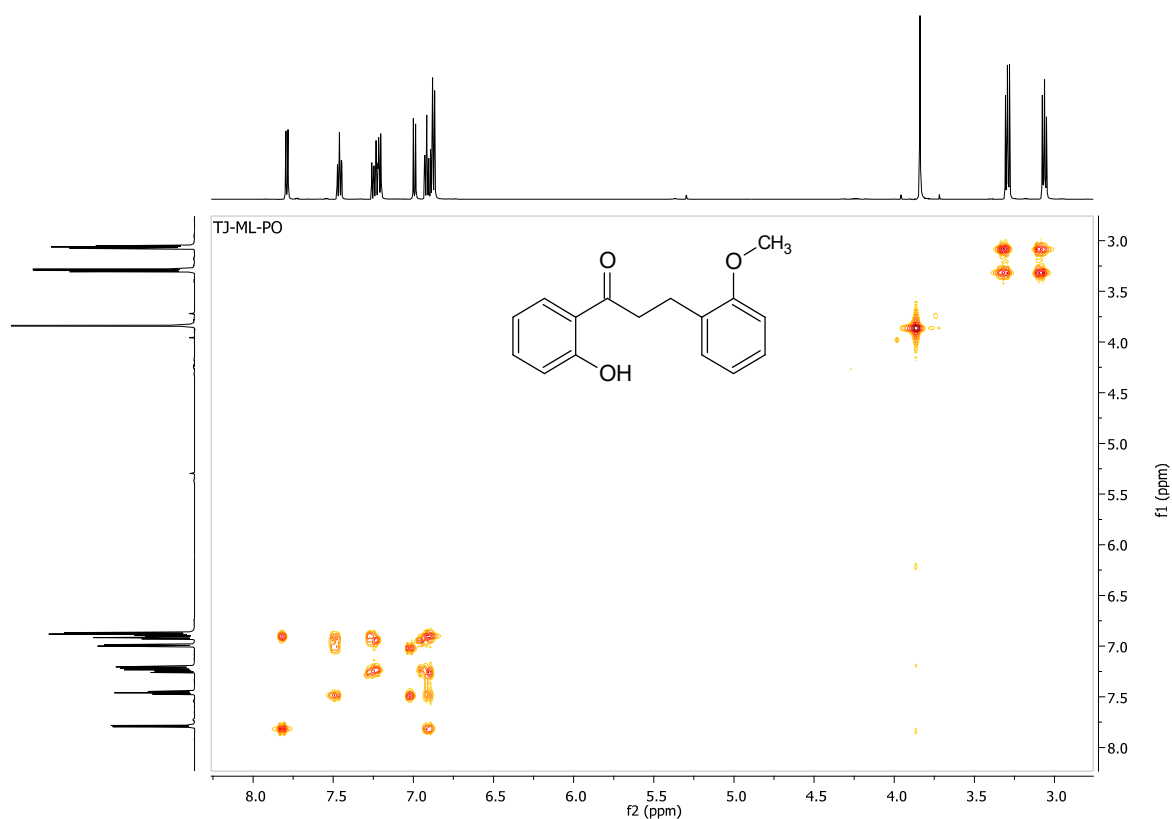


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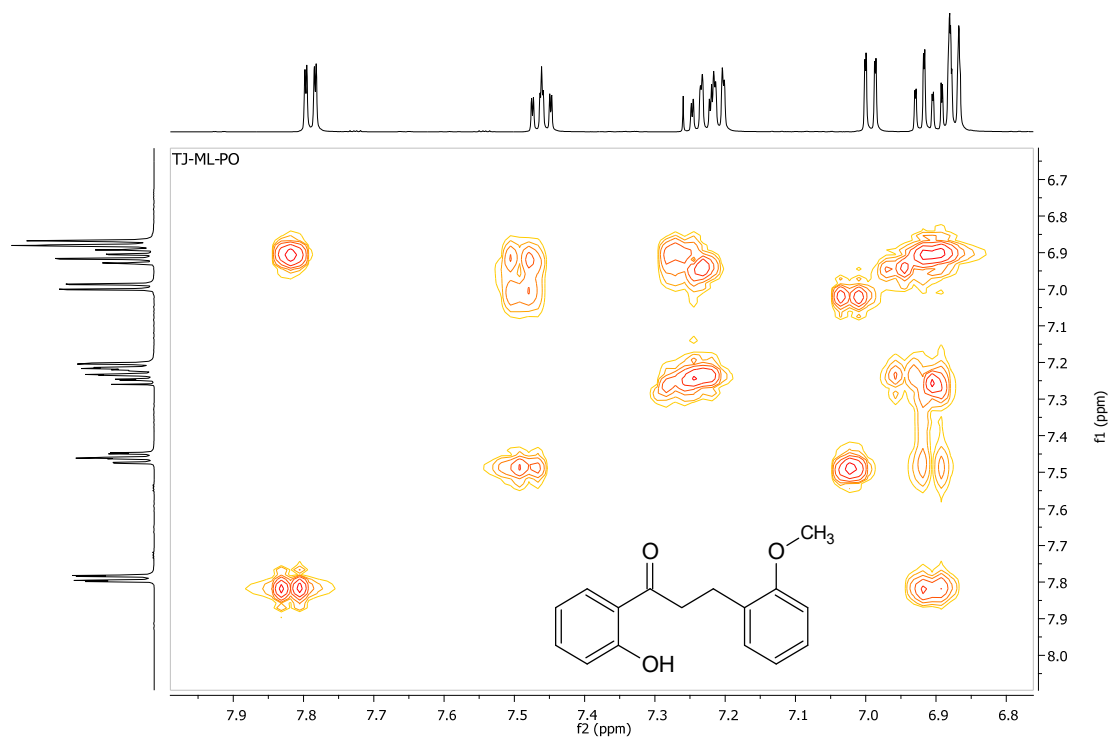


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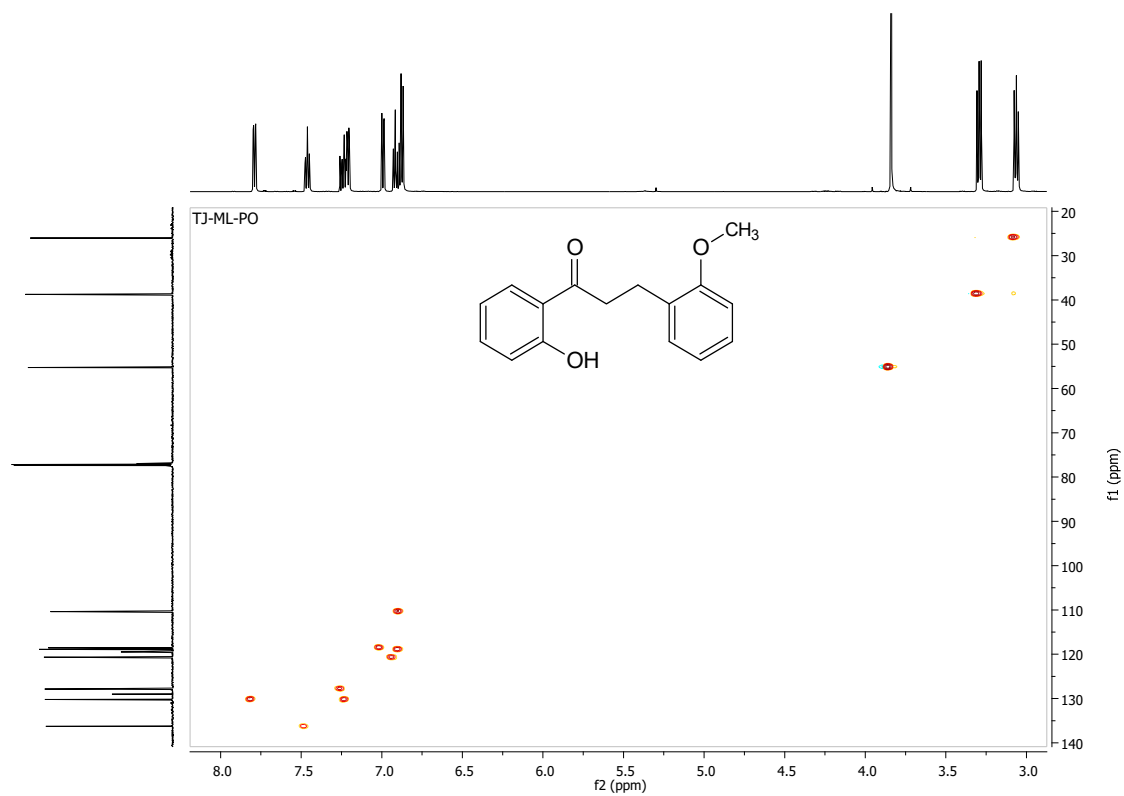


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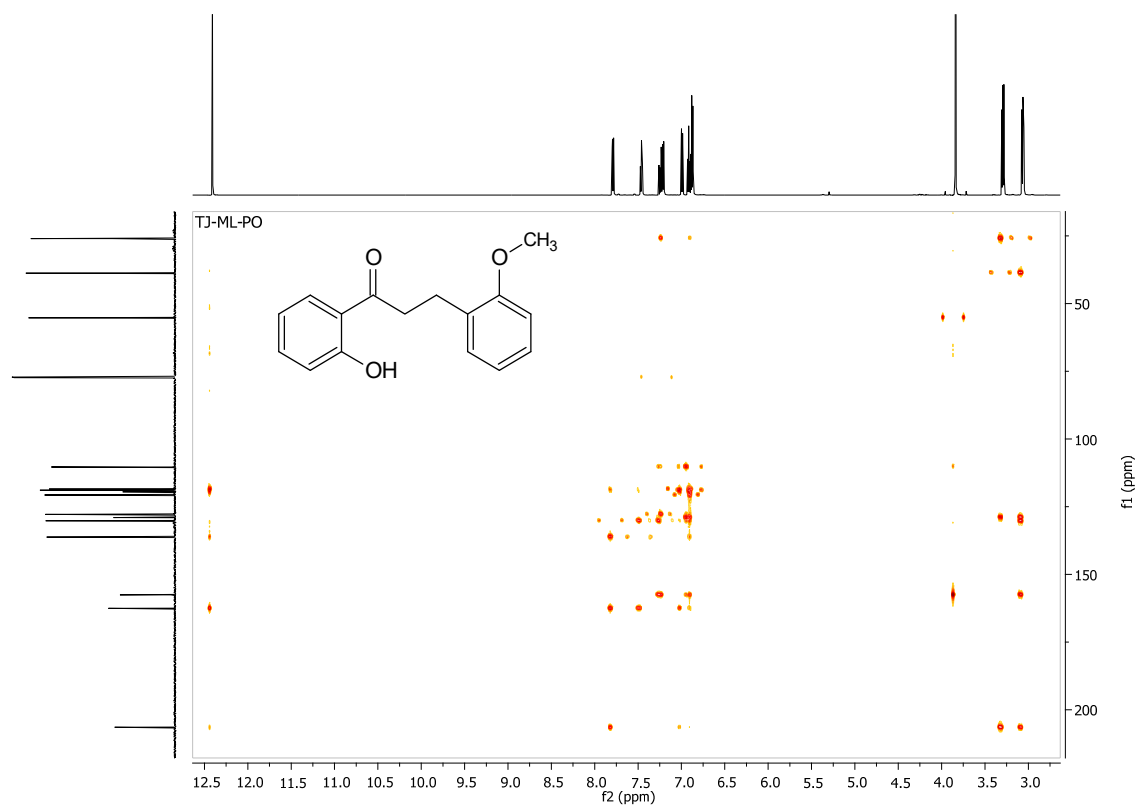


Figure S8. HMBC spectral of 1-(2'-hydroxyphenyl)-3-(2''-methoxyphenyl)-2-propan-1-one (**9**) (CDCl₃, 151 MHz).

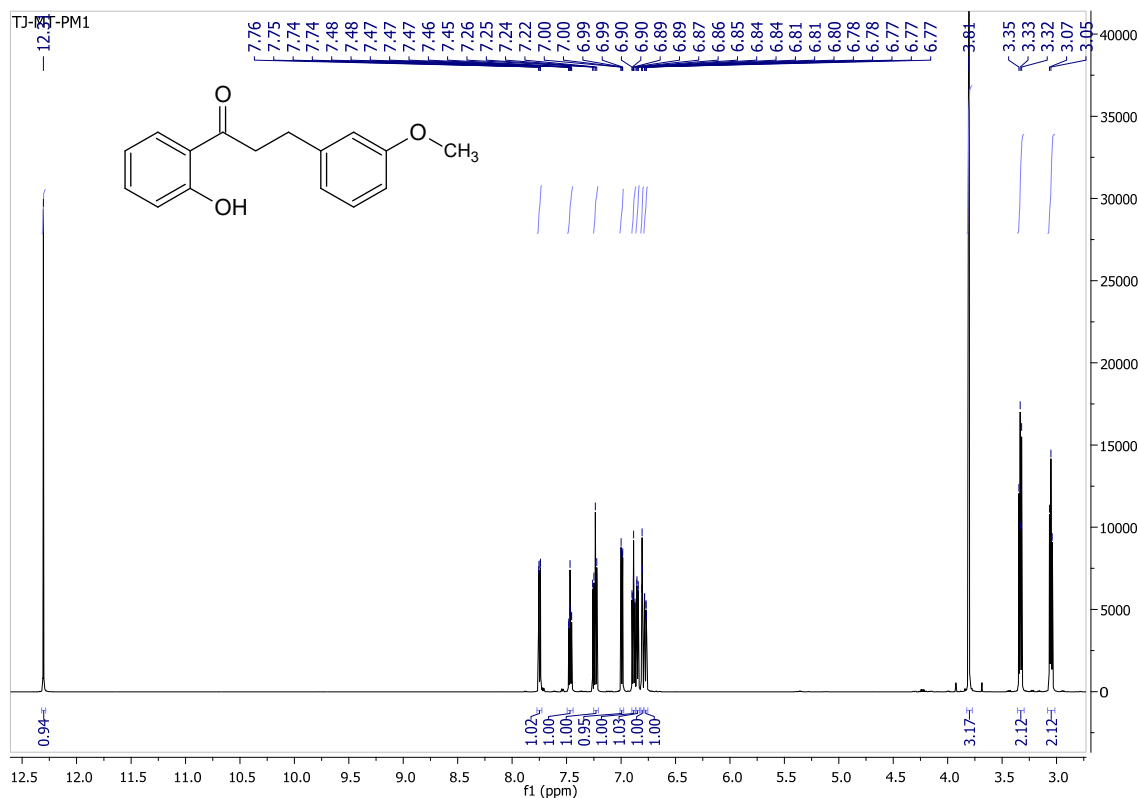


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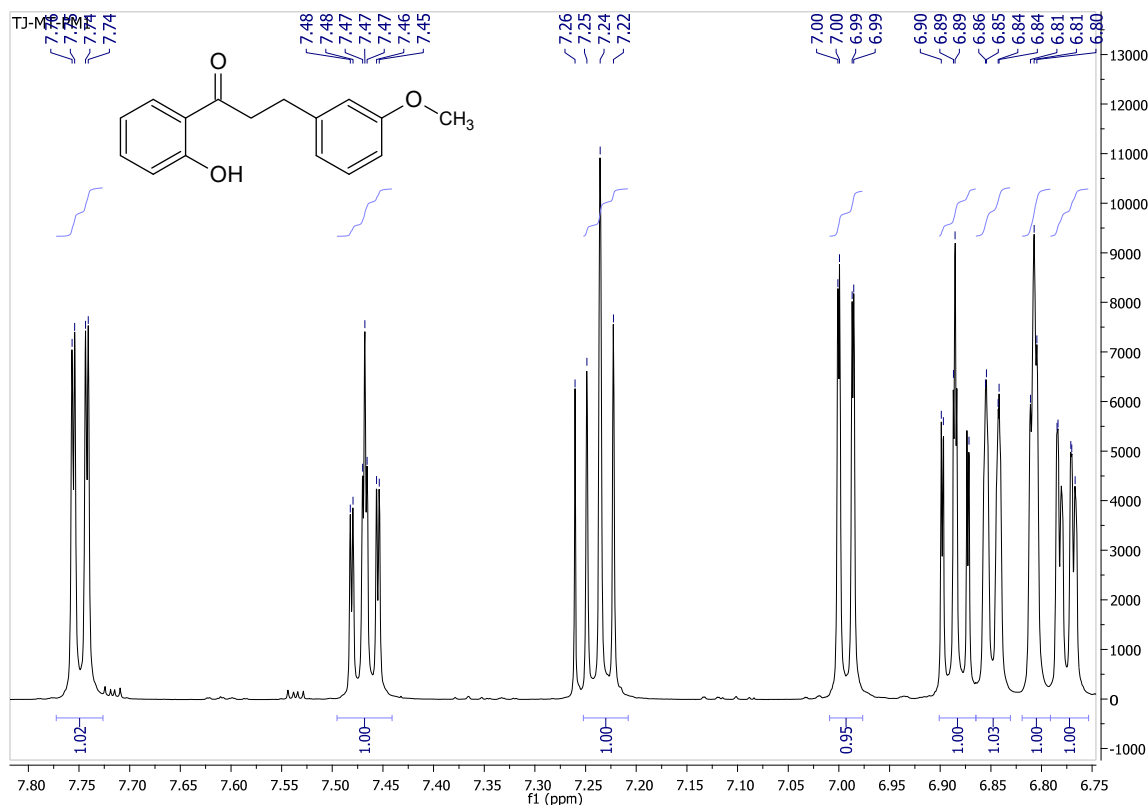


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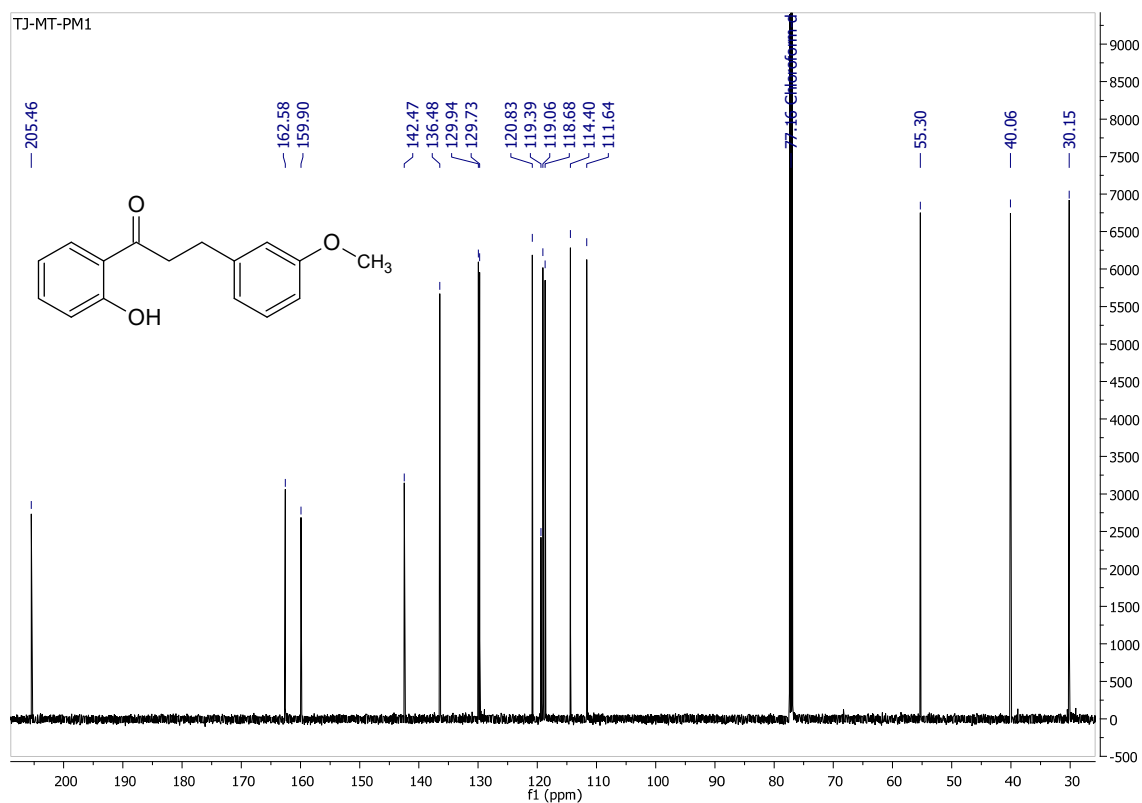


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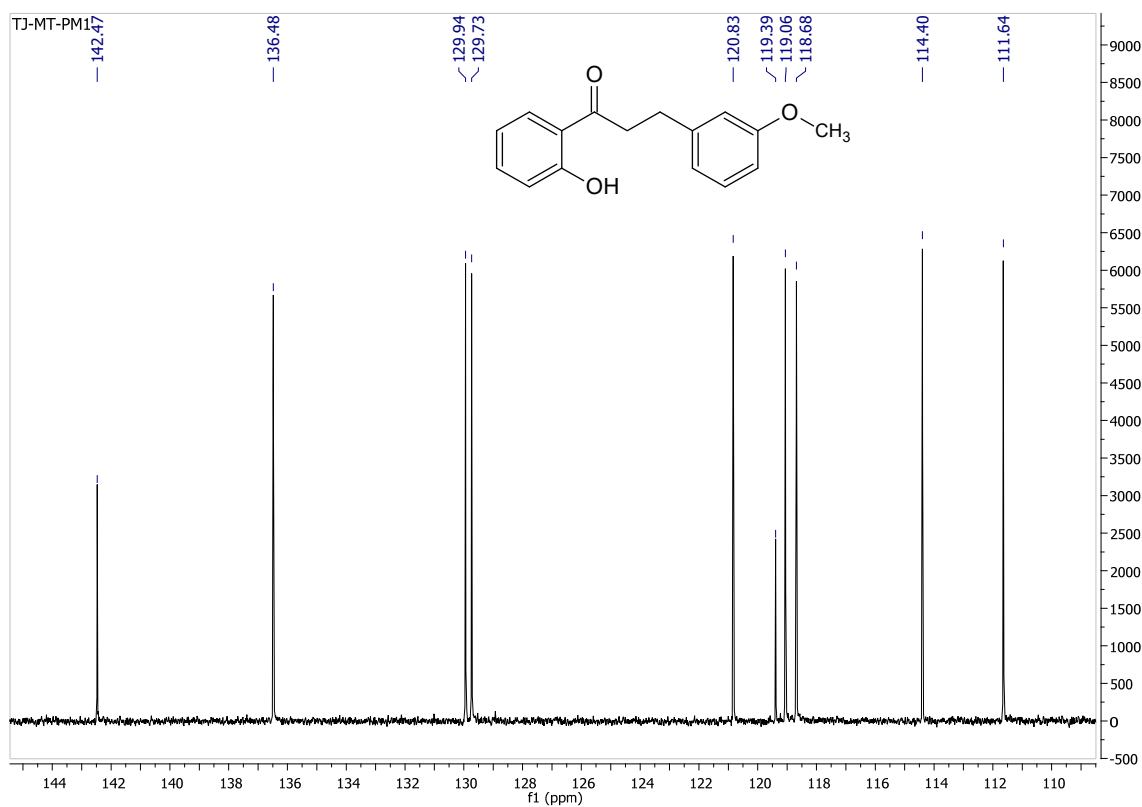


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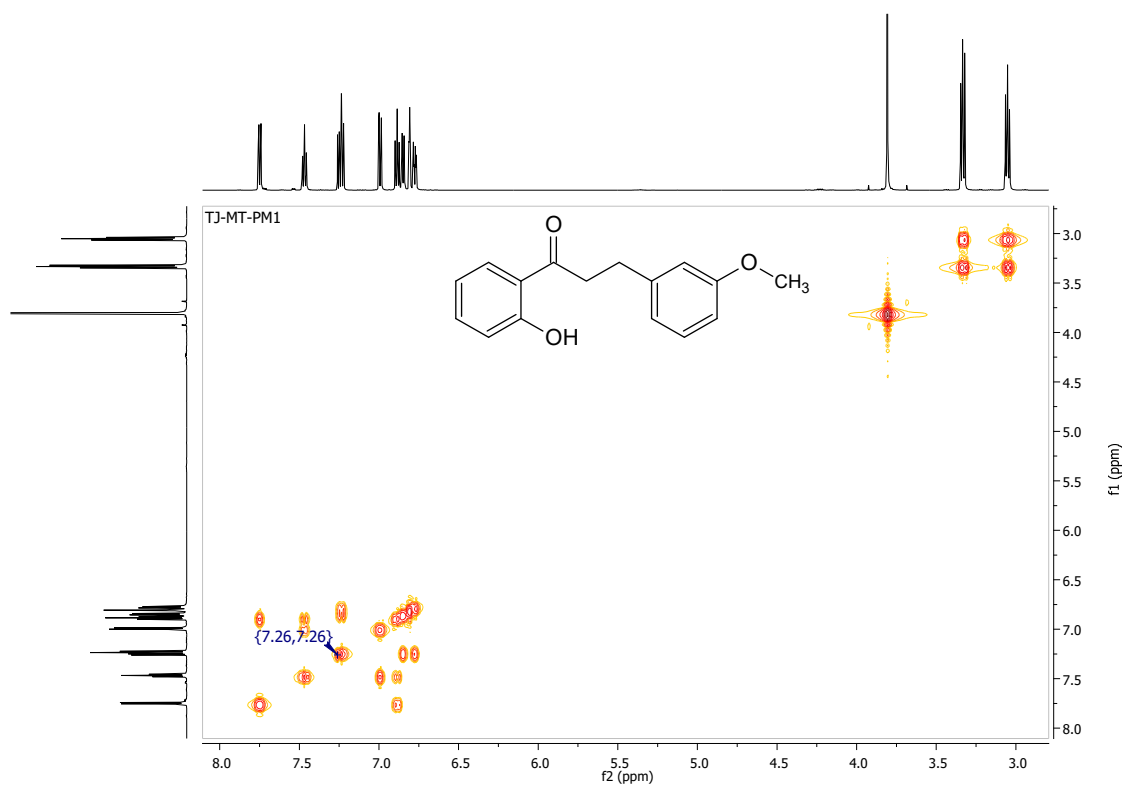


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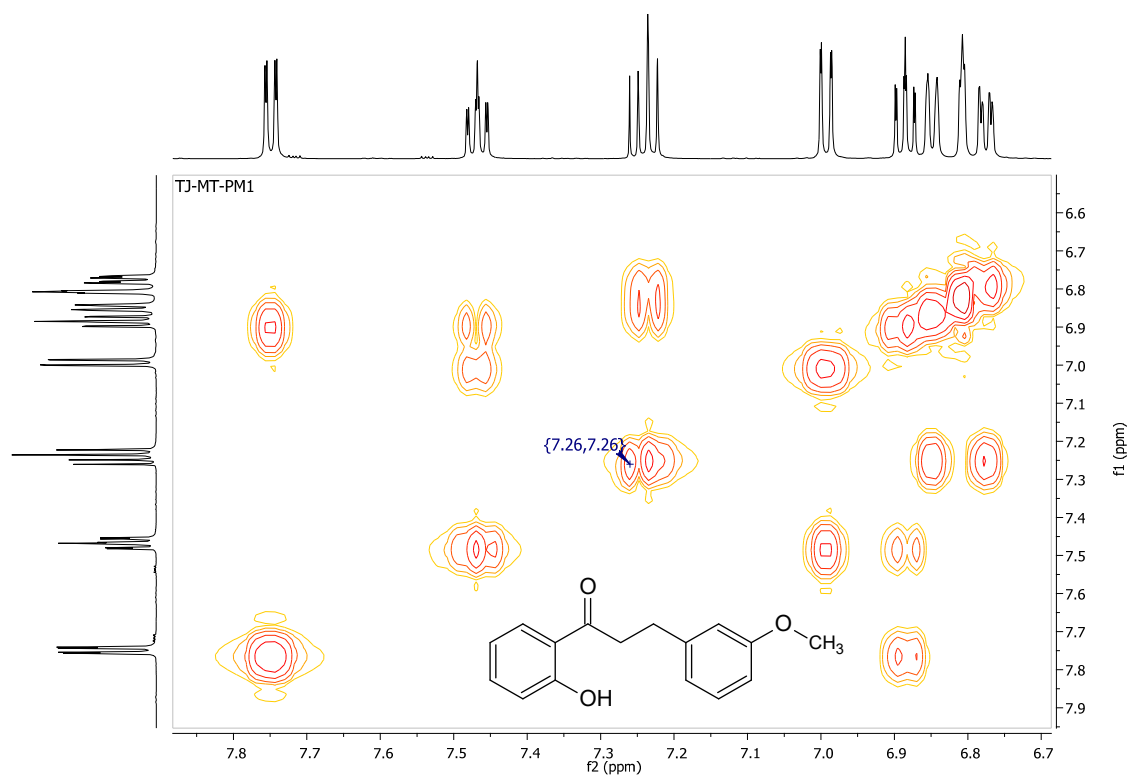


Figure S14. Part of the COSY spectral of 1-(2'-hydroxyphenyl)-3-(3''-methoxyphenyl)-2-propan-1-one (10) (CDCl₃, 151 MHz).

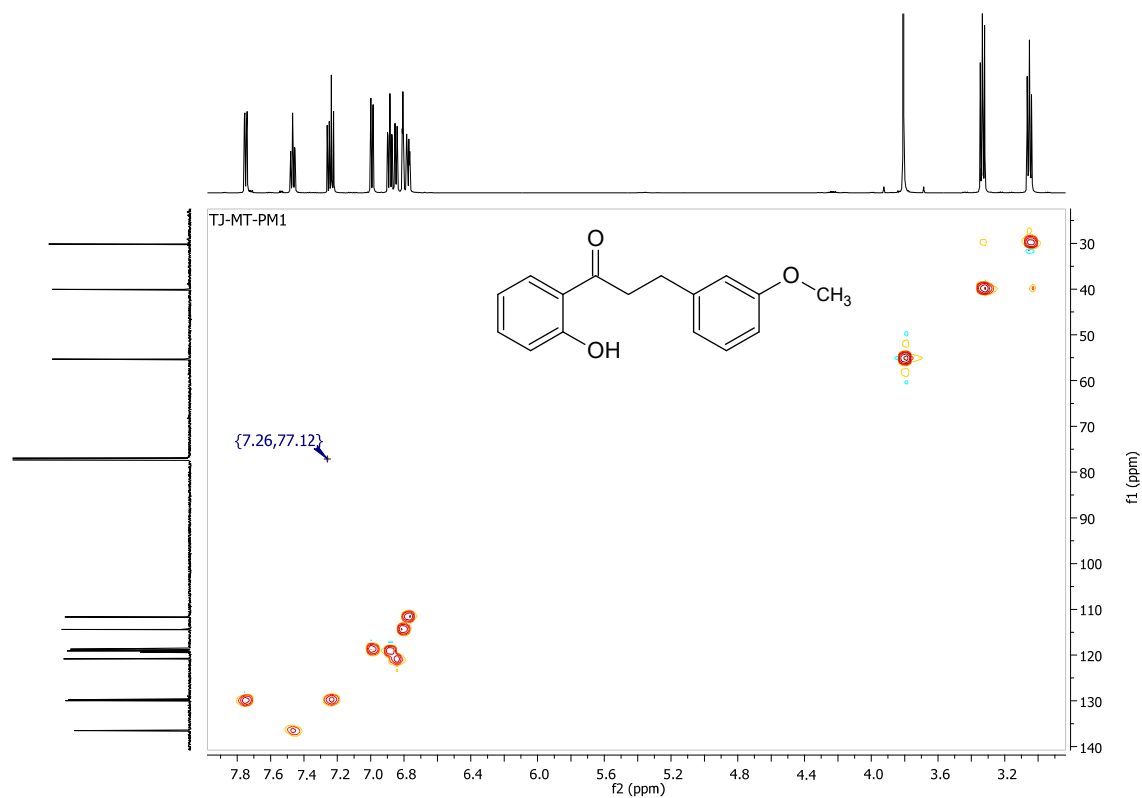


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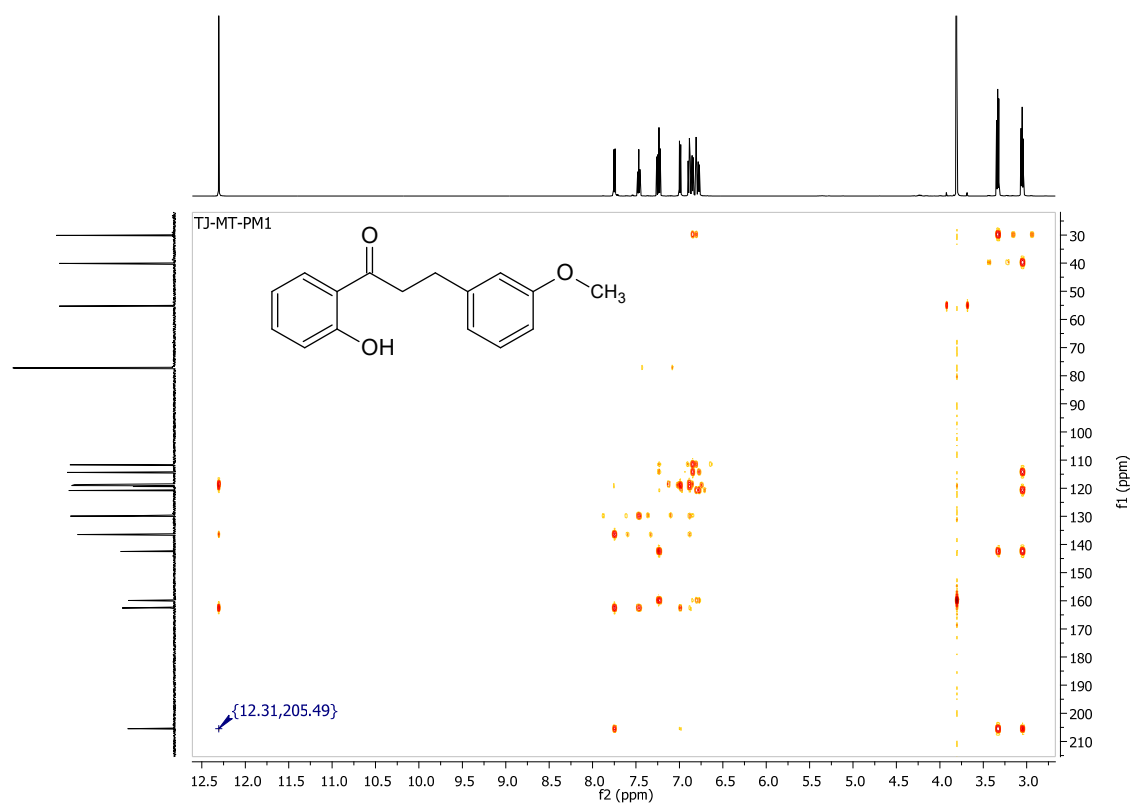


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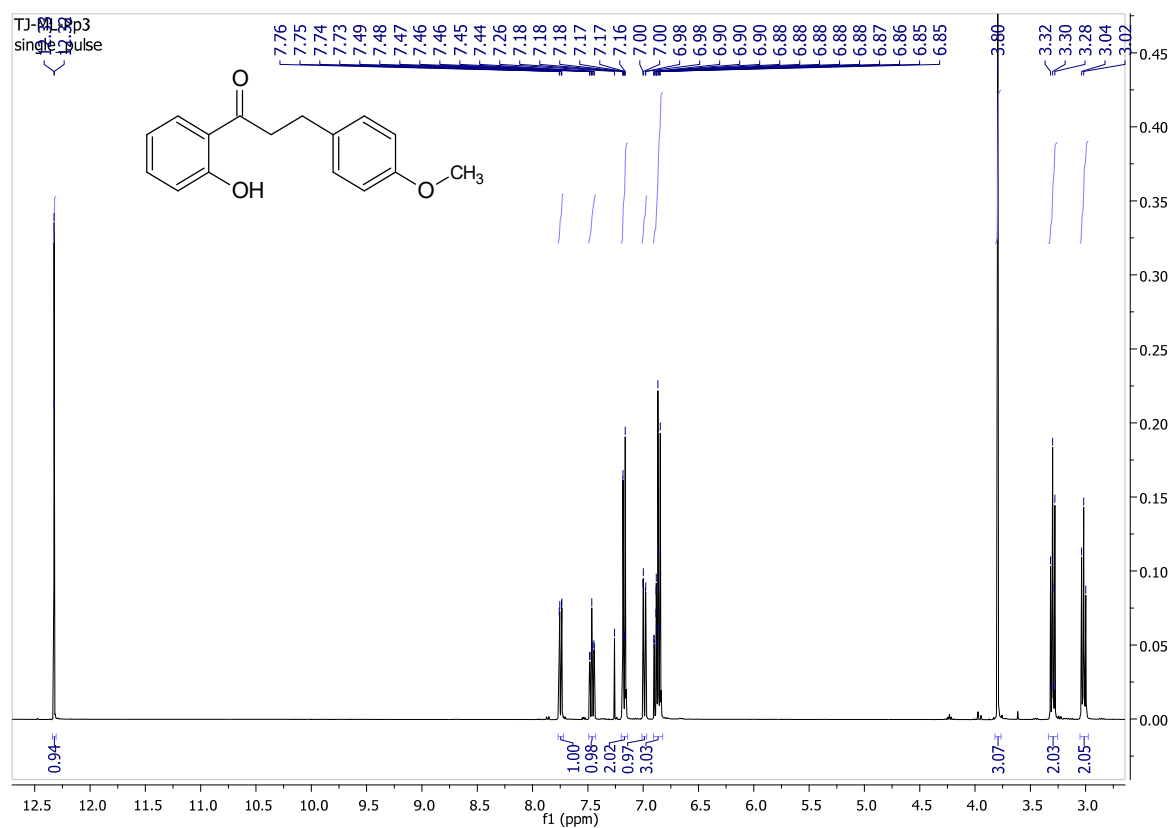


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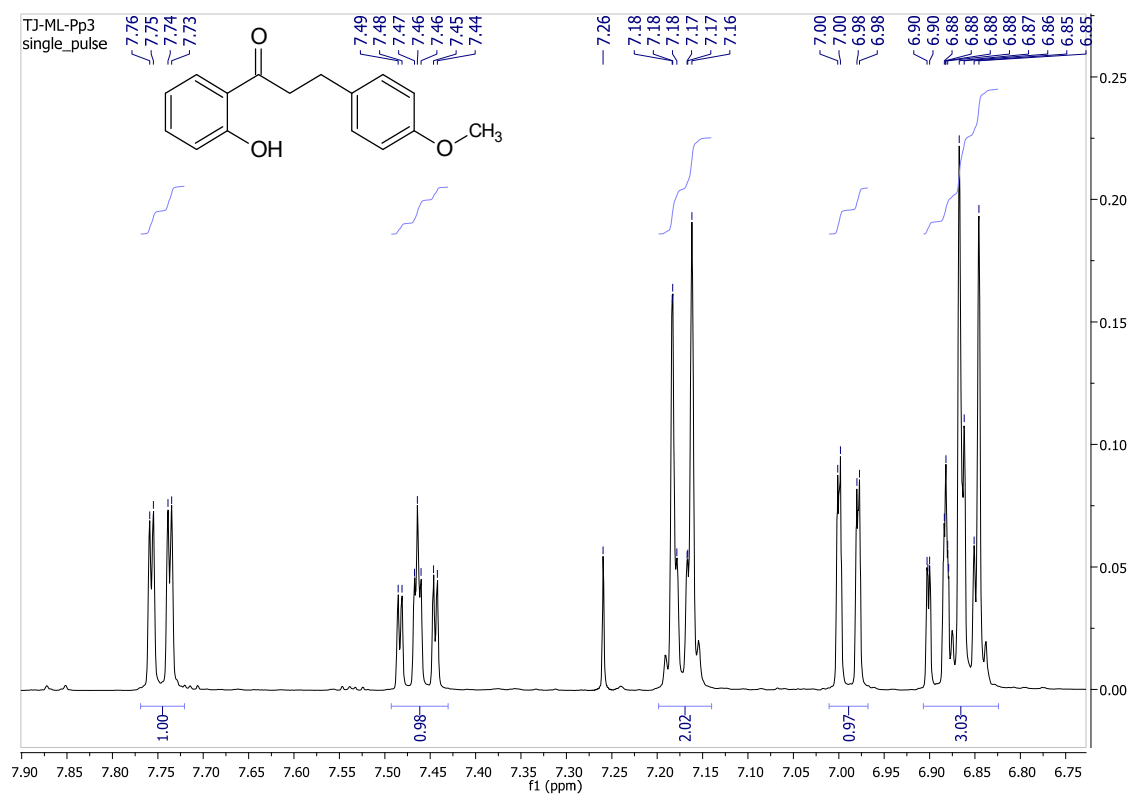


Figure S18. Part of the ¹³C NMR spectral of 1-(2'-hydroxyphenyl)-3-(4''-methoxyphenyl)-2-propan-1-one (11) (CDCl₃, 600 MHz).

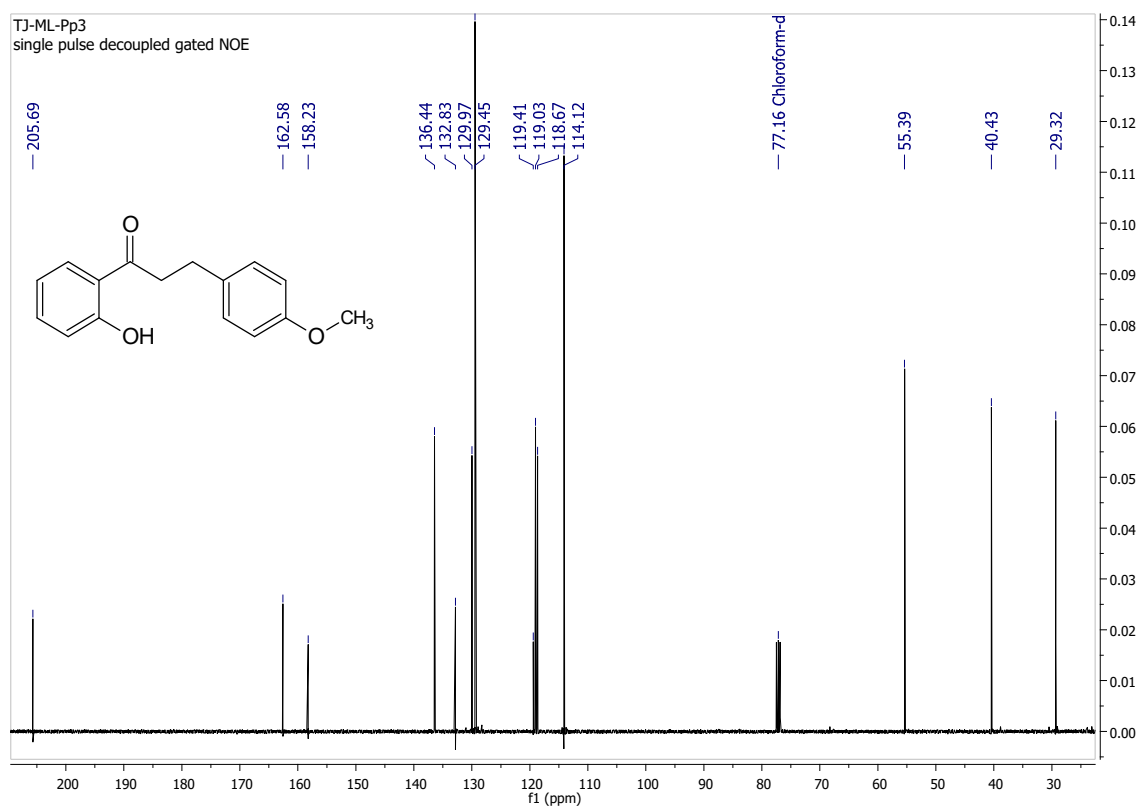


Figure S19. ^{13}C NMR spectral of 1-(2'-hydroxyphenyl)-3-(4''-methoxyphenyl)-2-propan-1-one (11) (CDCl_3 , 151 MHz).

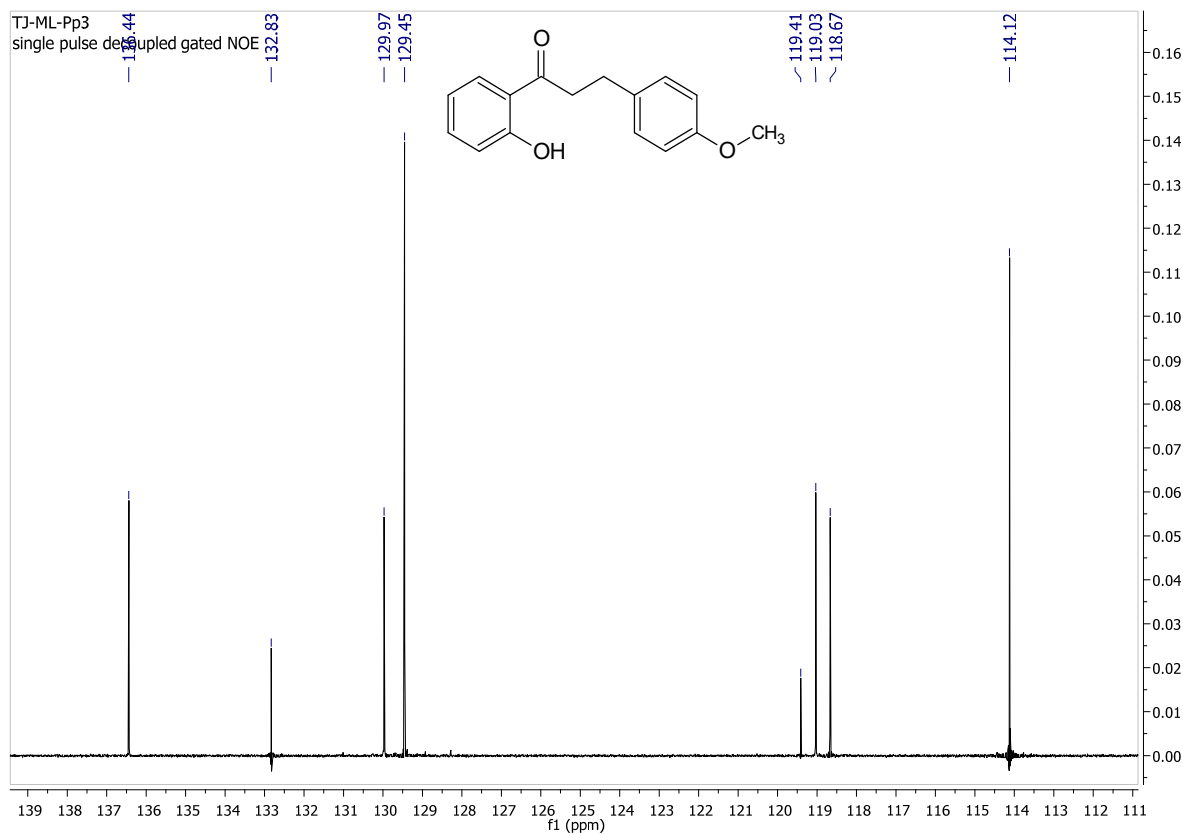


Figure S20. Part of the ^{13}C NMR spectral of 1-(2'-hydroxyphenyl)-3-(4''-methoxyphenyl)-2-propan-1-one (11) (CDCl_3 , 151 MHz).

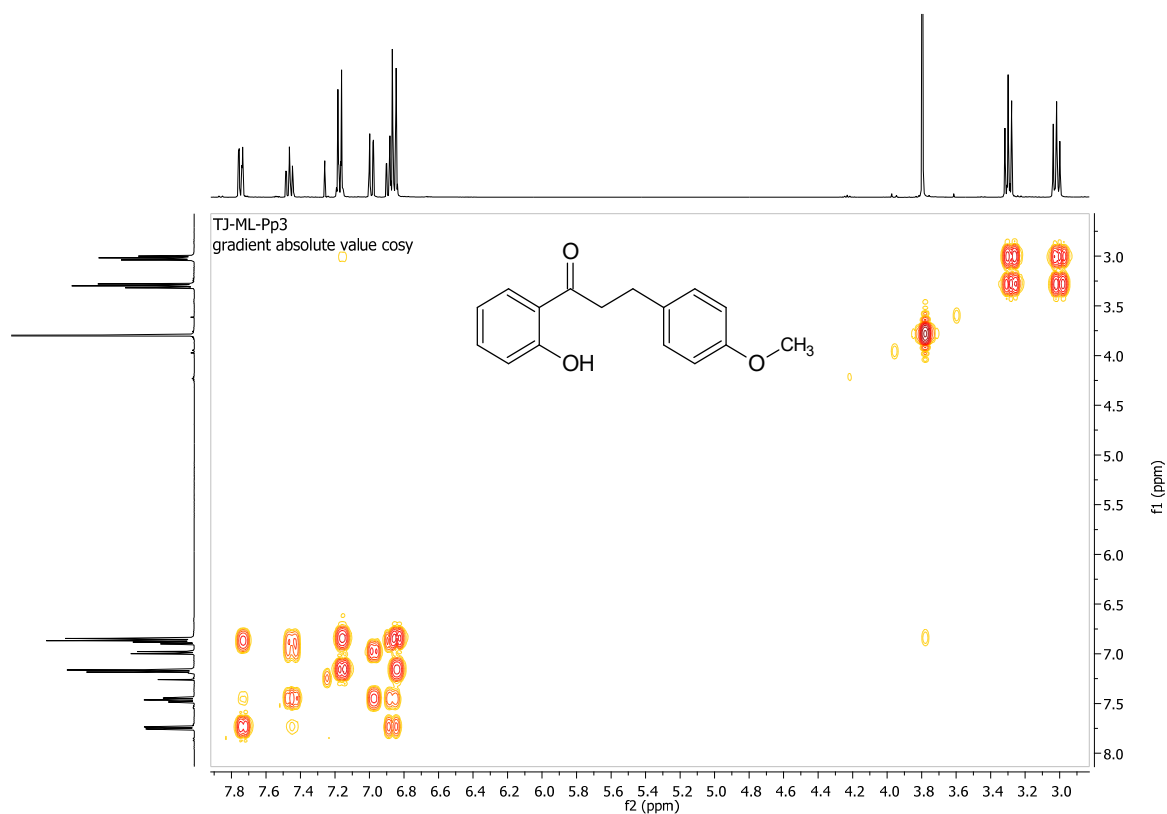


Figure S21. COSY spectral of 1-(2'-hydroxyphenyl)-3-(4''-methoxyphenyl)-2-propan-1-one (**11**) (CDCl₃, 151 MHz).

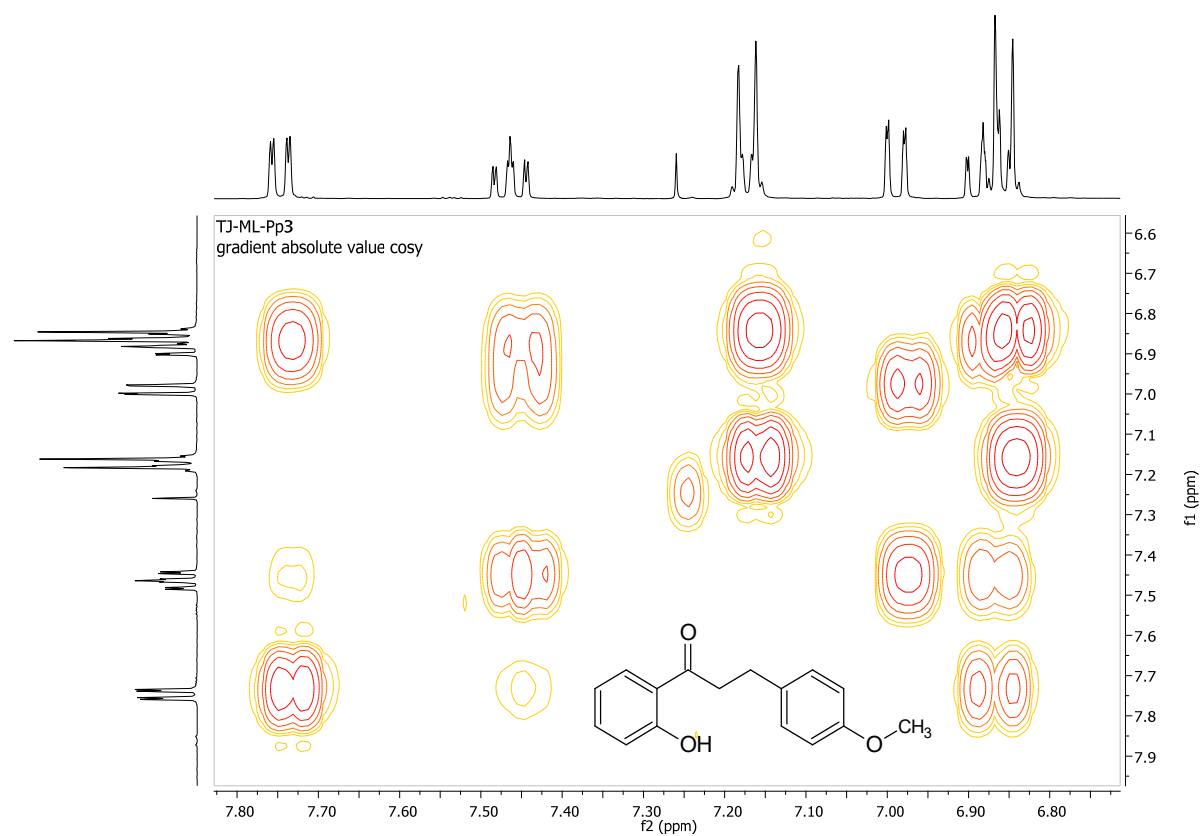


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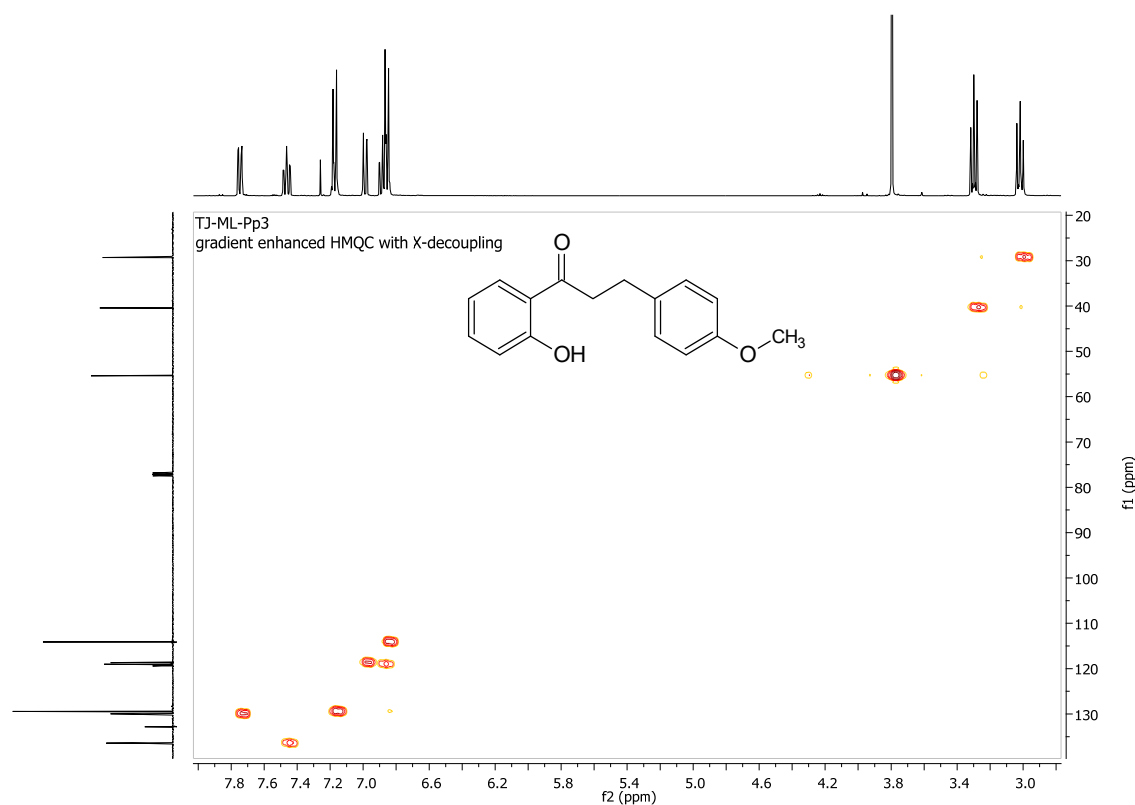


Figure S23. HSQC spectral of 1-(2'-hydroxyphenyl)-3-(4''-methoxyphenyl)-2-propan-1-one (**11**) (CDCl₃, 151 MHz).

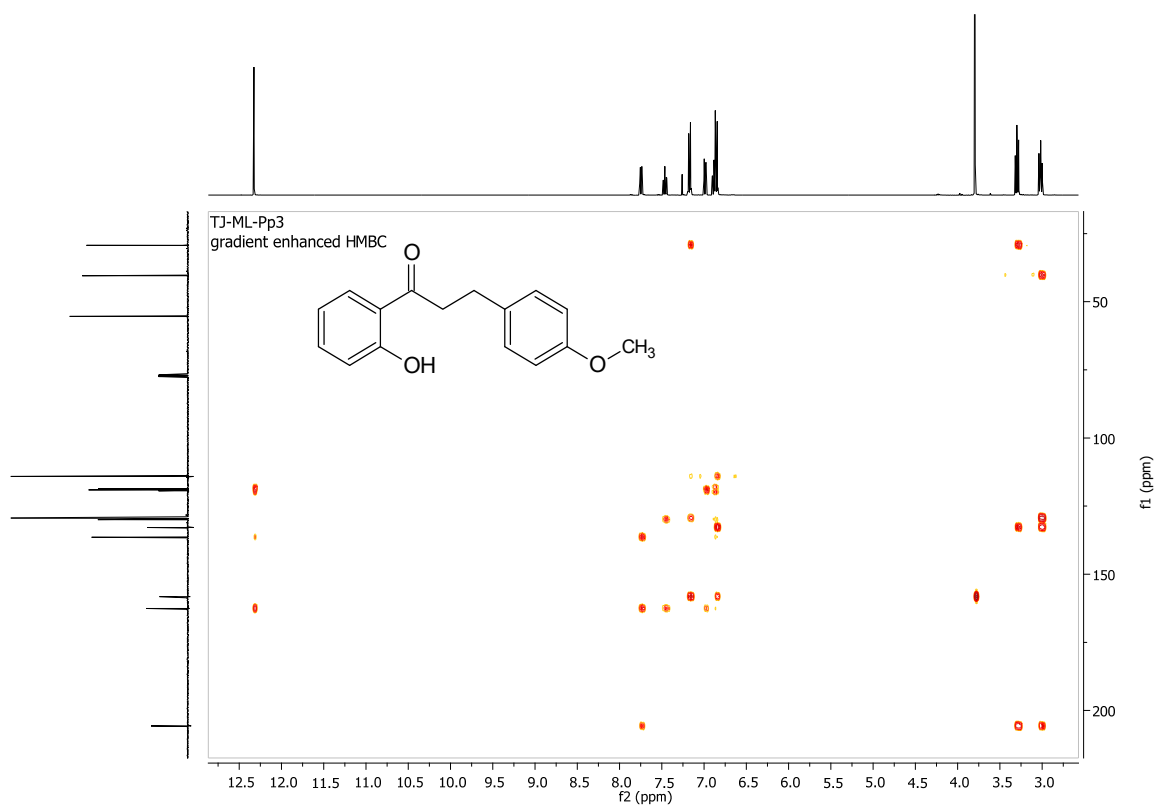


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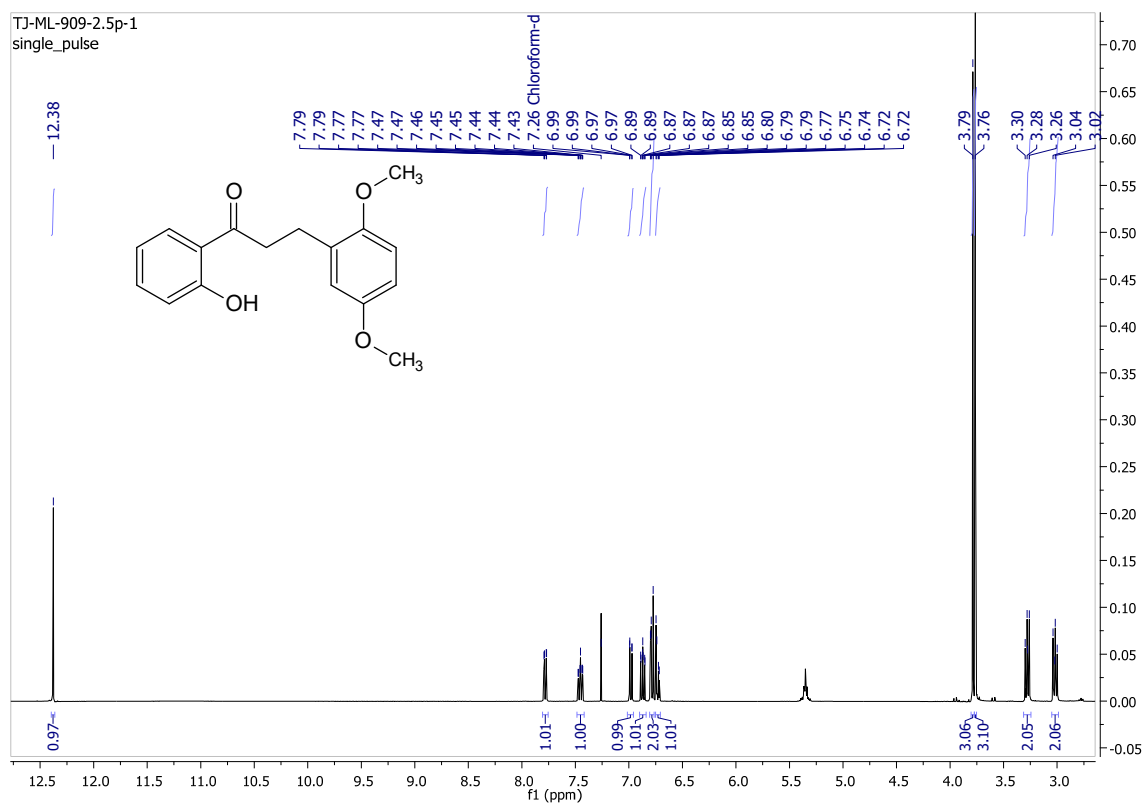


Figure S25. ^1H NMR spectral of 1-(2'-hydroxyphenyl)-3-(2'',5''-dimethoxyphenyl)-2-propan-1-one (**12**) (CDCl_3 , 600 MHz).

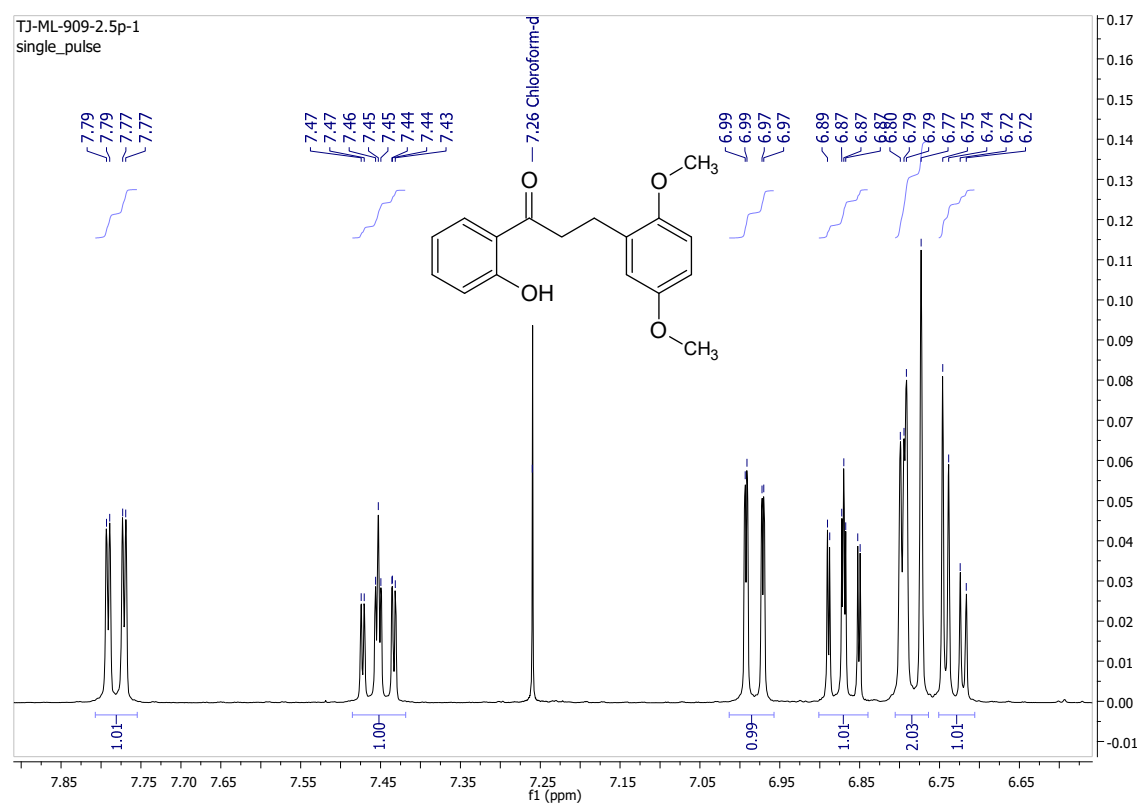


Figure S26. Part of the ^{13}C NMR spectral of 1-(2'-hydroxyphenyl)-3-(2'',5''-dimethoxyphenyl)-2-propan-1-one (**12**) (CDCl_3 , 600 MHz).

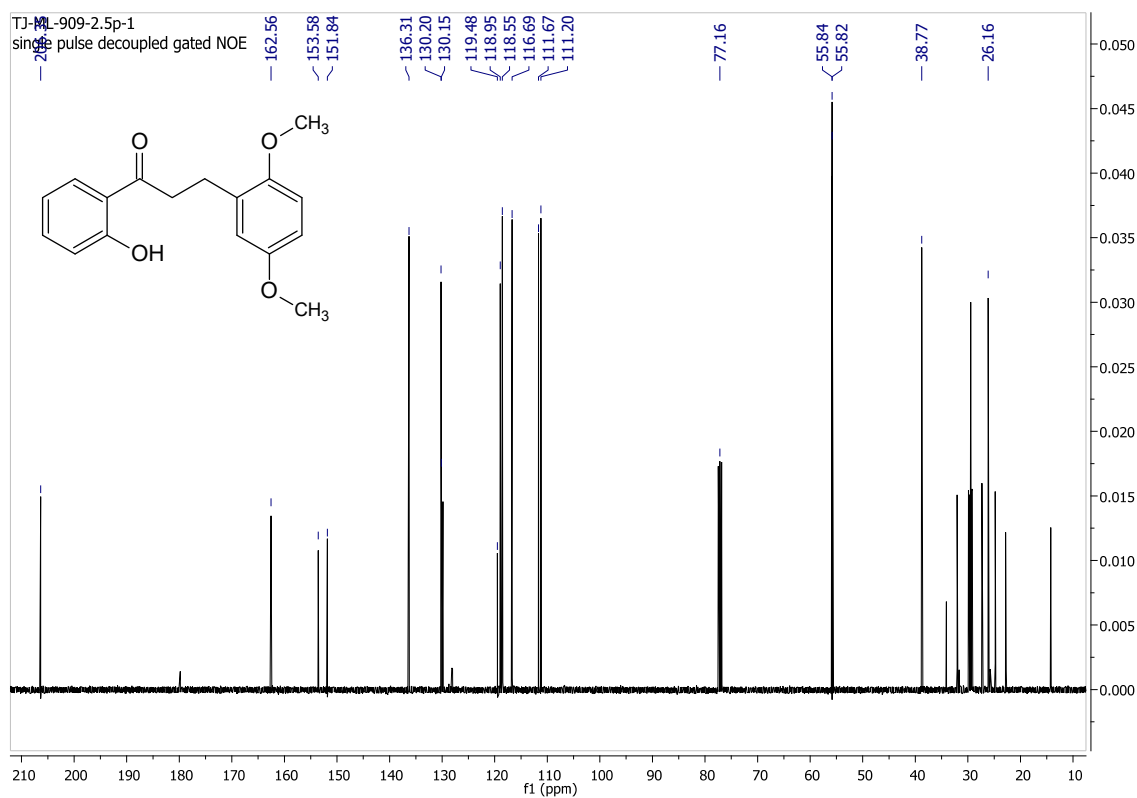


Figure S27. ^{13}C NMR spectral of 1-(2'-hydroxyphenyl)-3-(2'',5''-dimethoxyphenyl)-2-propan-1-one (12) (CDCl_3 , 151 MHz).

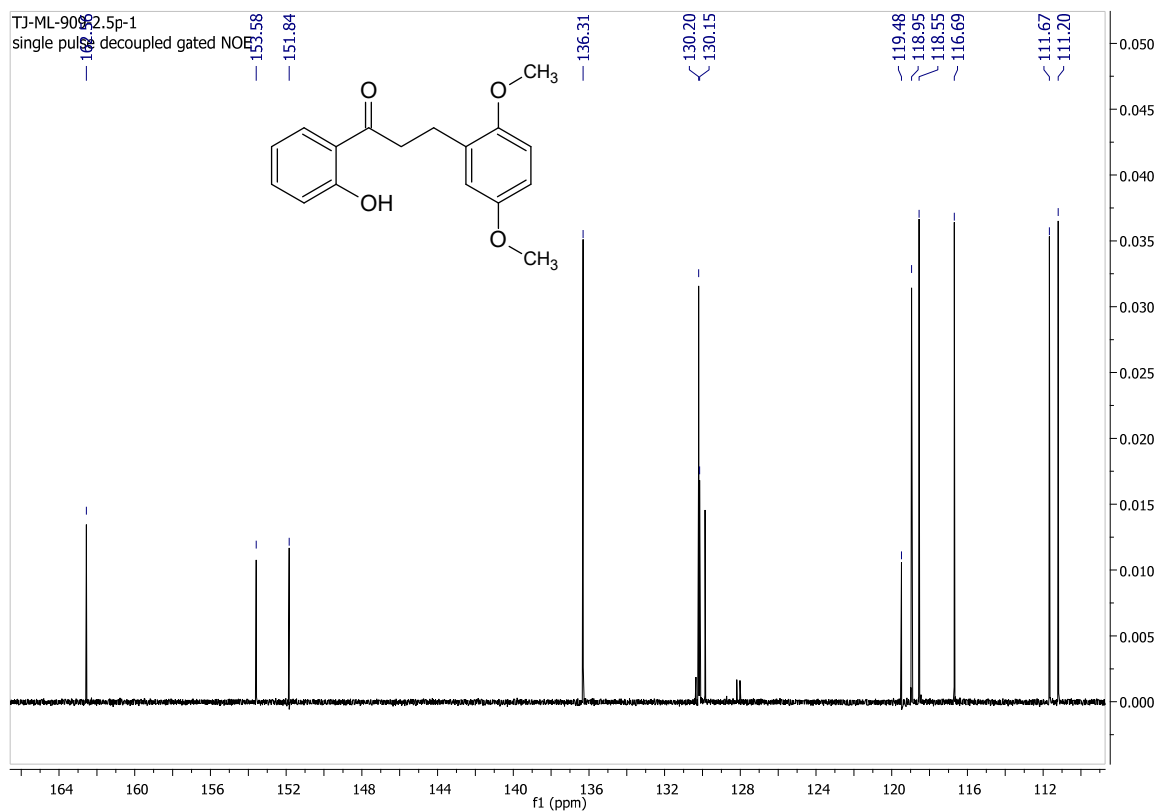


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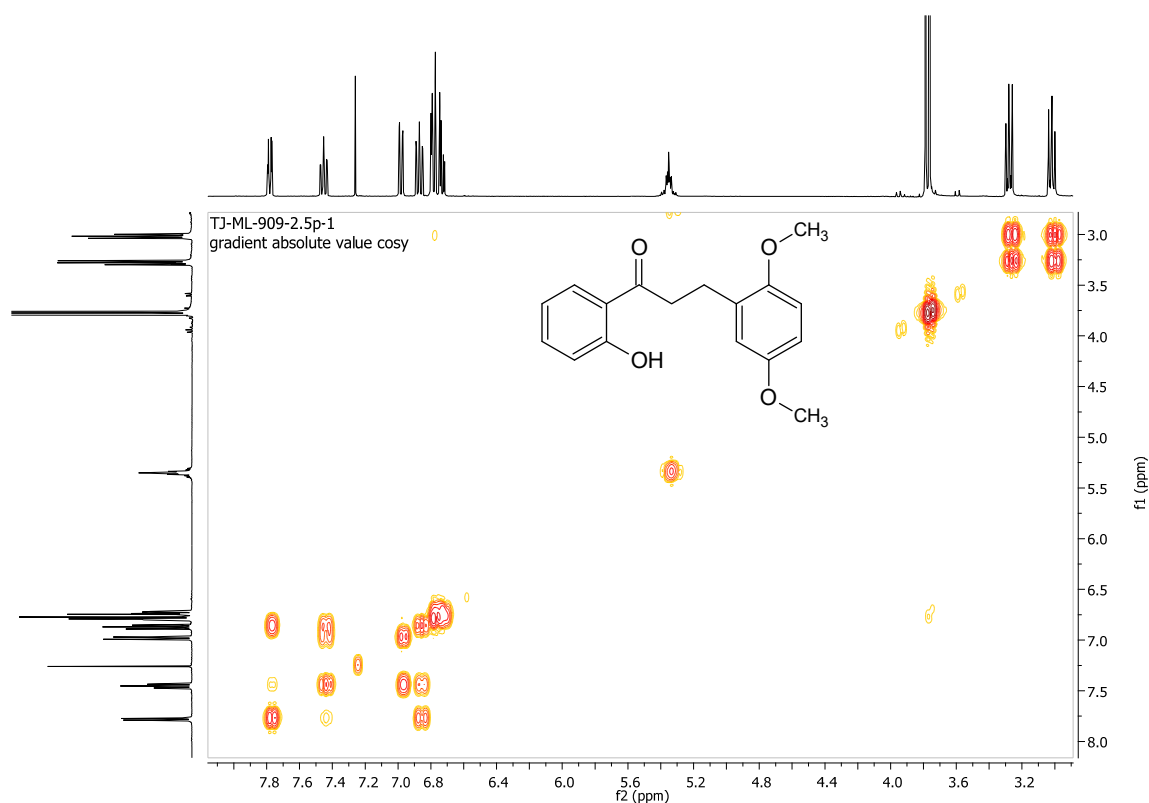


Figure S29. COSY spectral of 1-(2'-hydroxyphenyl)-3-(2'',5''-dimethoxyphenyl)-2-propan-1-one (**12**) (CDCl₃, 151 MHz).

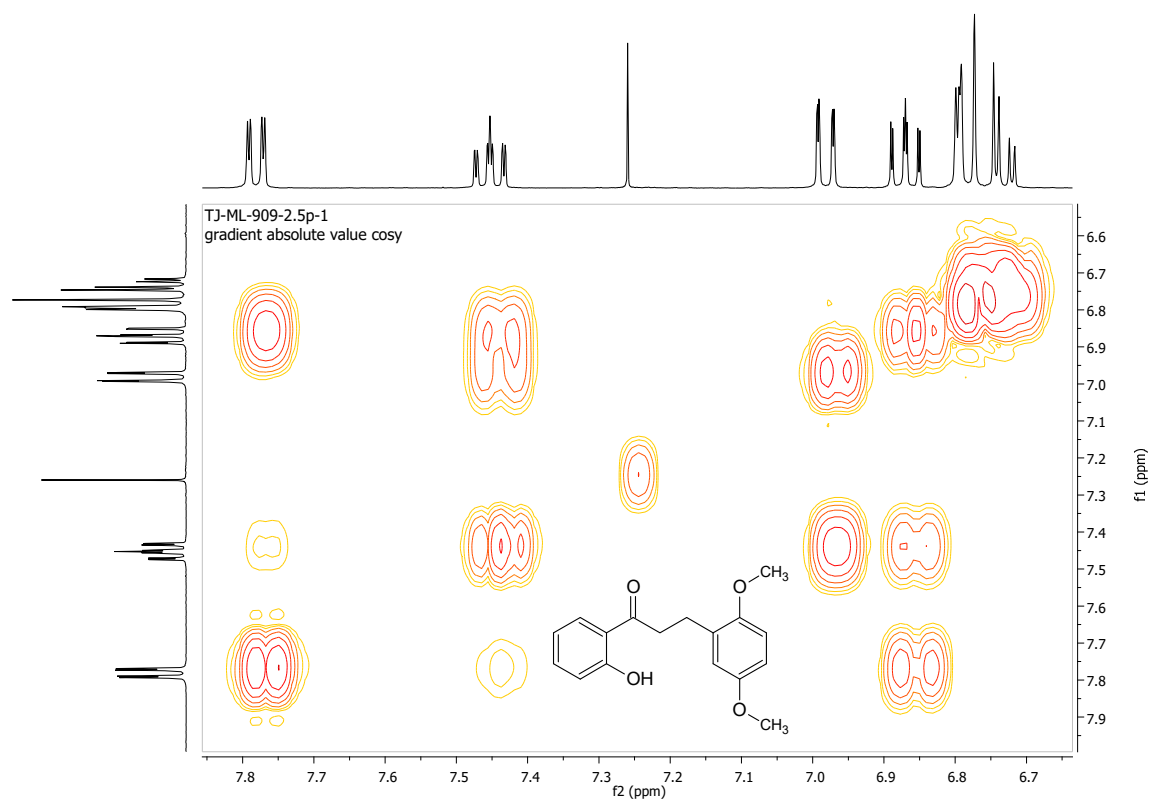


Figure S30. Part of the COSY spectral of 1-(2'-hydroxyphenyl)-3-(2'',5''-dimethoxyphenyl)-2-propan-1-one (**12**) (CDCl₃, 151 MHz).

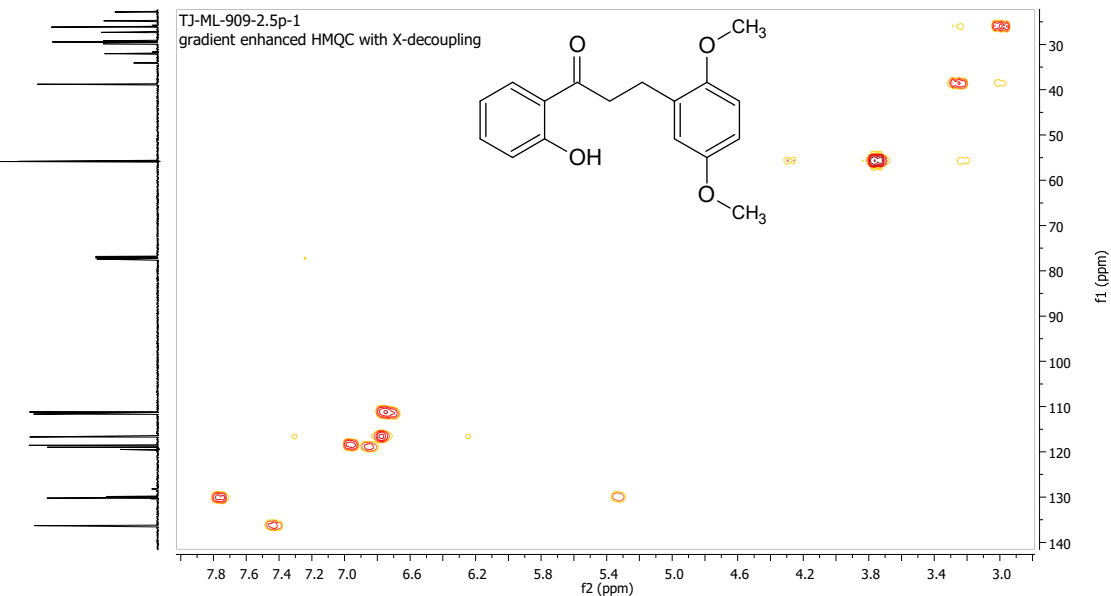


Figure S31. HSQC spectral of 1-(2'-hydroxyphenyl)-3-(2'',5''-dimethoxyphenyl)-2-propan-1-one (**12**) (CDCl₃, 151 MHz).

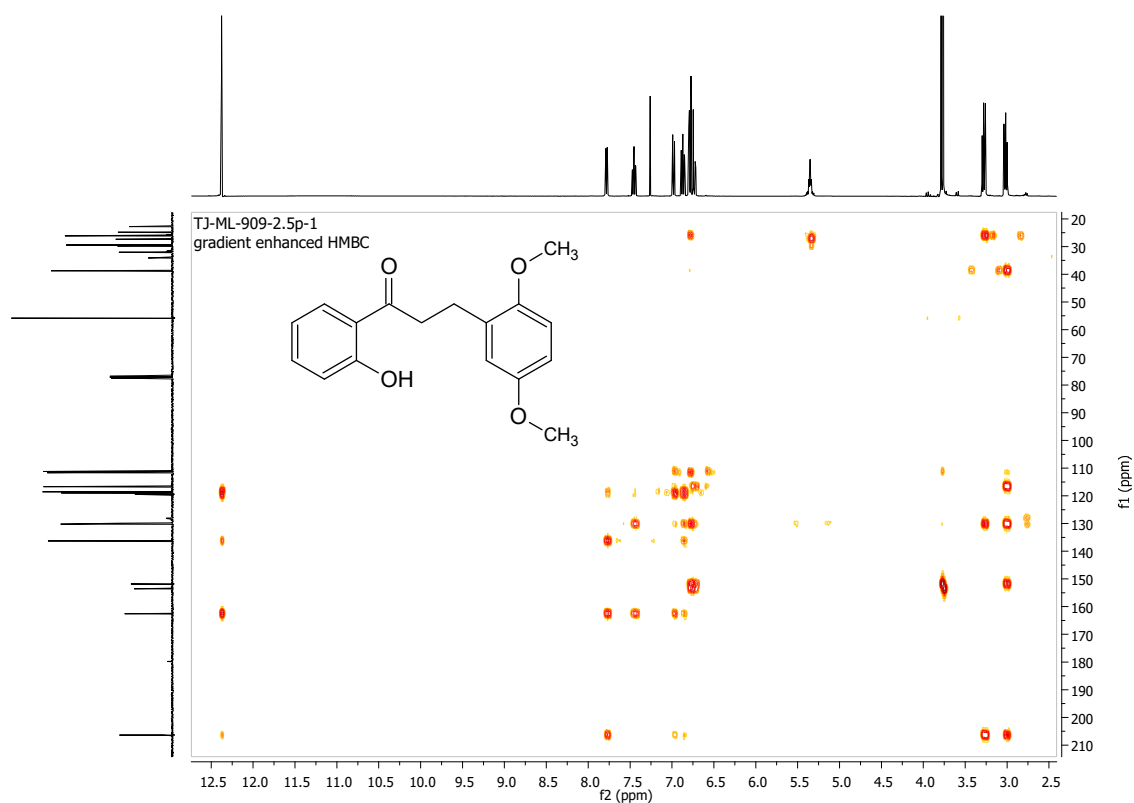
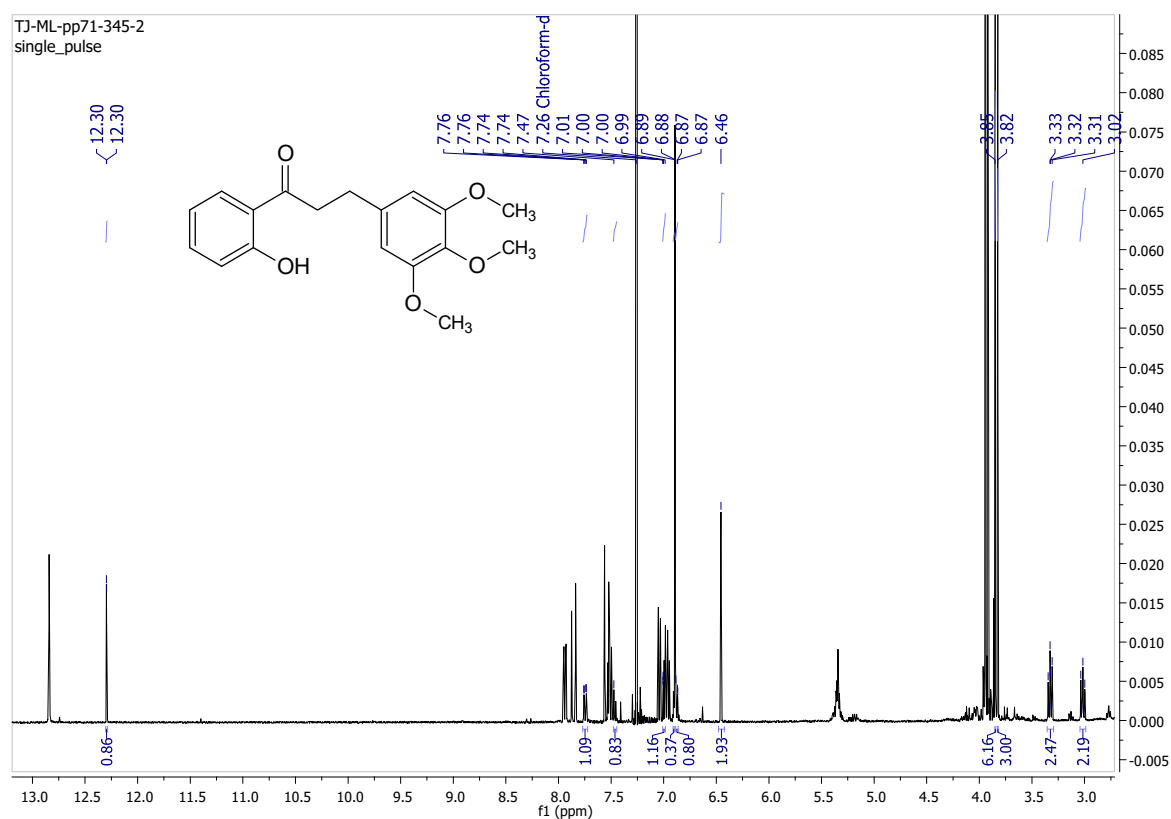


Figure S32. HMBC spectral of 1-(2'-hydroxyphenyl)-3-(2'',5''-dimethoxyphenyl)-2-propan-1-one (**12**) (CDCl₃, 151 MHz).



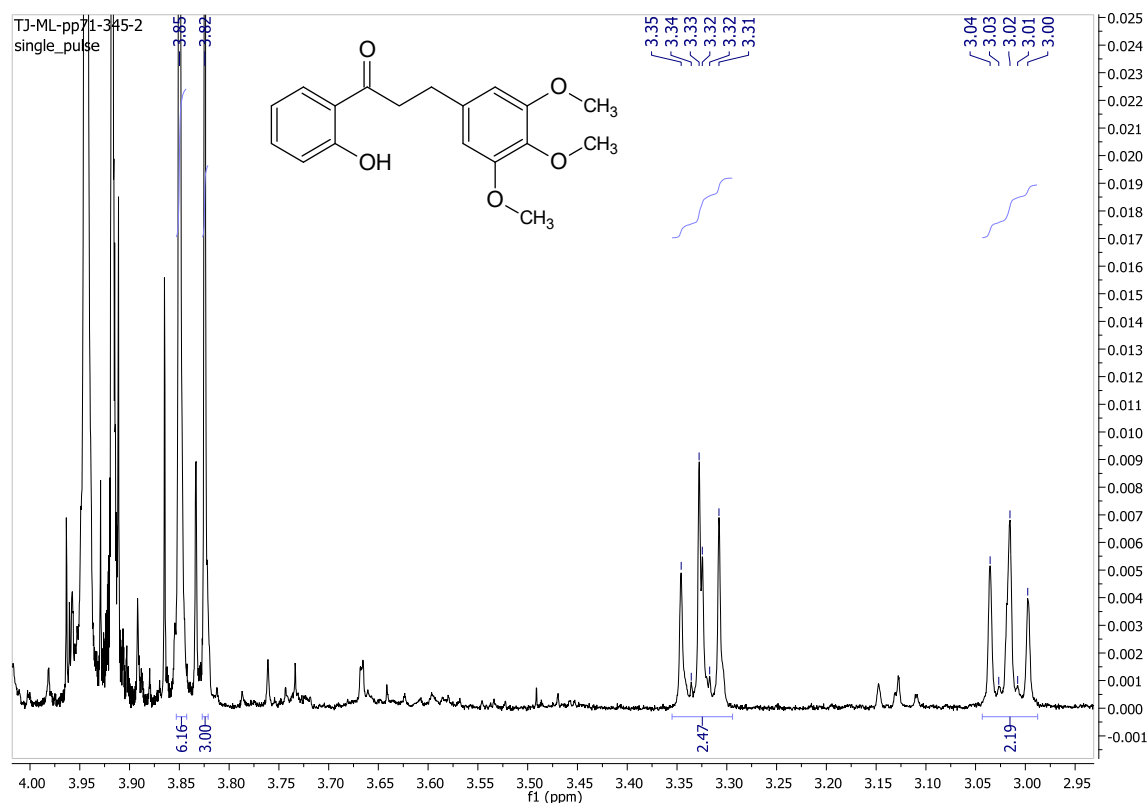


Figure S35. Part of the ^1H NMR spectral of 1-(2'-hydroxyphenyl)-3-(3'',4'',5''-trimethoxyphenyl)-2-propan-1-one (**13**) (CDCl_3 , 600 MHz).

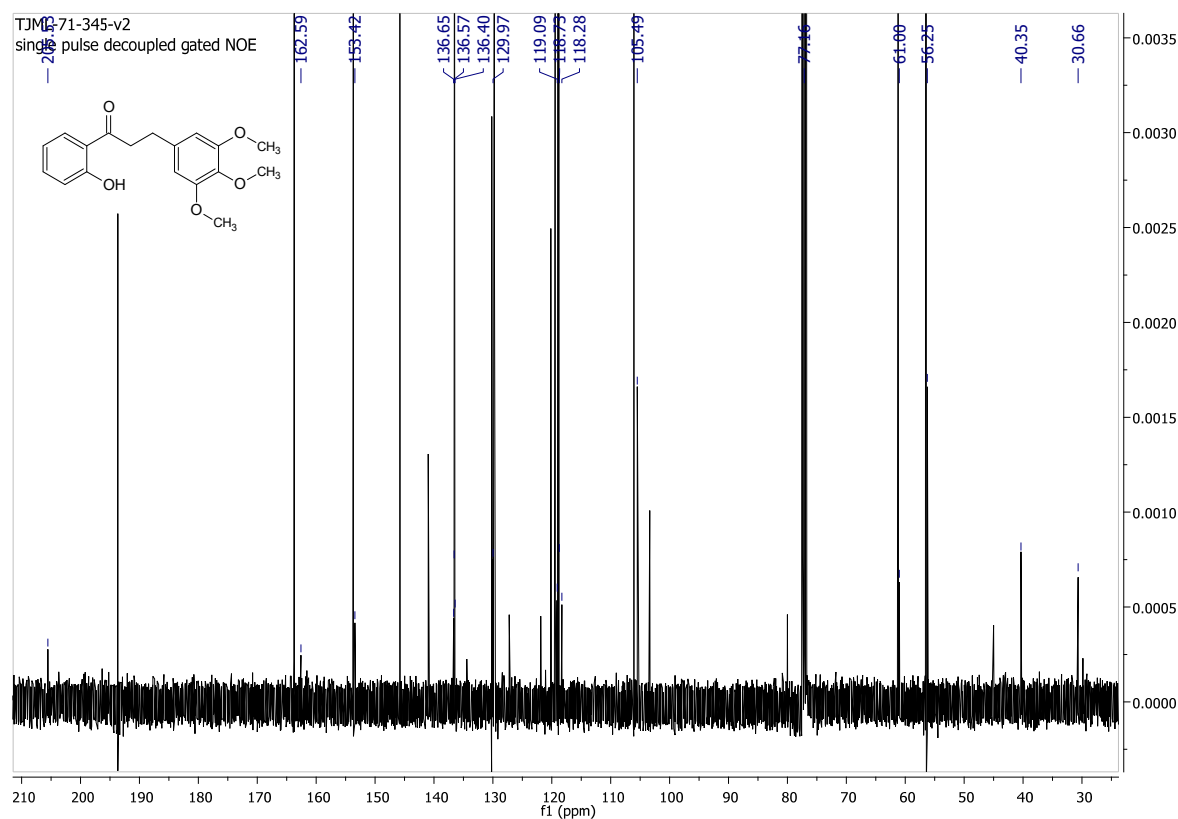


Figure S36. ^{13}C NMR spectral of 1-(2'-hydroxyphenyl)-3-(3'',4'',5''-trimethoxyphenyl)-2-propan-1-one (**13**) (CDCl_3 , 151 MHz).

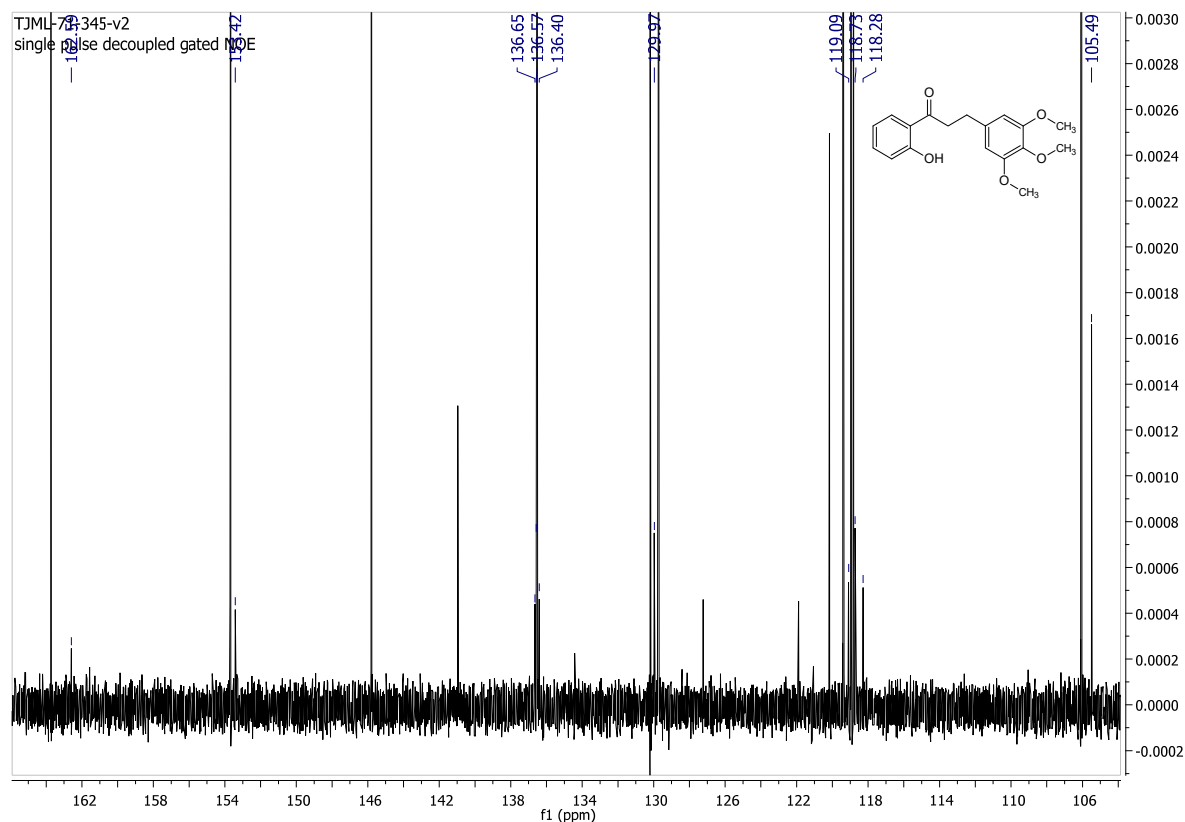


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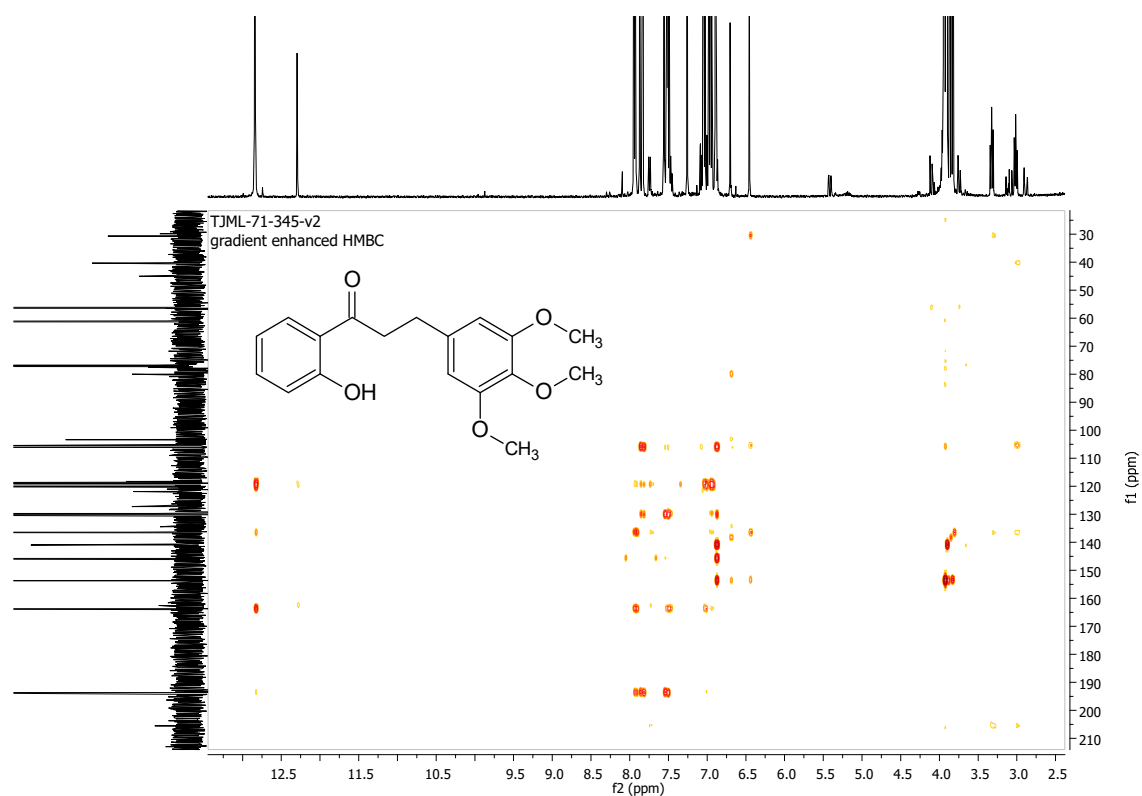


Figure S38. HMBC spectral of 1-(2'-hydroxyphenyl)-3-(3'',4'',5''-trimethoxyphenyl)-2-propan-1-one (**13**) (CDCl_3 , 151 MHz).