

Supplementary Material

Electrochemically induced tandem Knoevenagel-Michael assembling of aldehydes with kojic acid: direct and efficient arylbis[3-hydroxy-6-(hydroxymethyl)-4-oxo-4H-pyran-2-yl]methanes formation

Michail N. Elinson,^{a*} Yuliya E. Ryzhkova,^a Anatoly N. Vereshchagin,^a Natalia A. Leonova,^a Alexandra P. Minaeva,^{a,b} and Mikhail P. Egorov^a

^a*N. D. Zelinsky Institute of Organic Chemistry, Leninsky prospect 47, 119991 Moscow, Russia*

Email: elinson@ioc.ac.ru

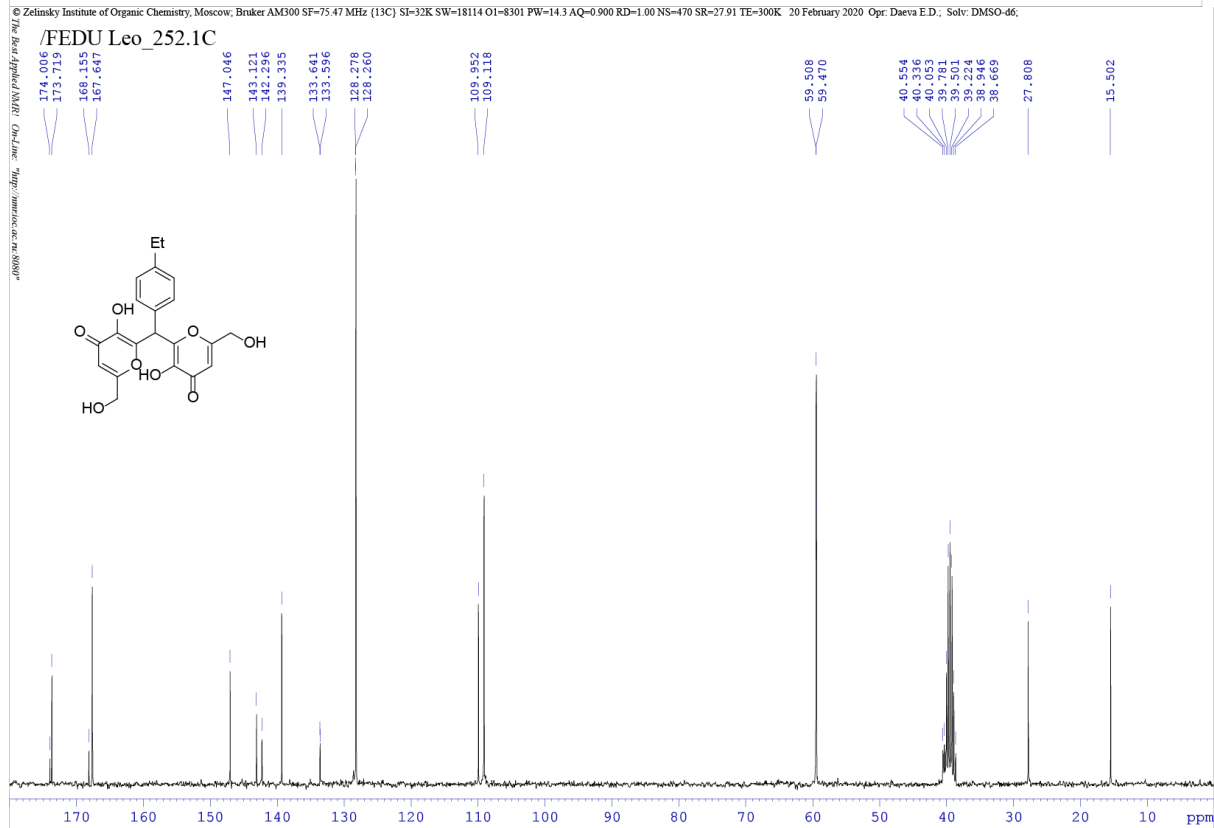
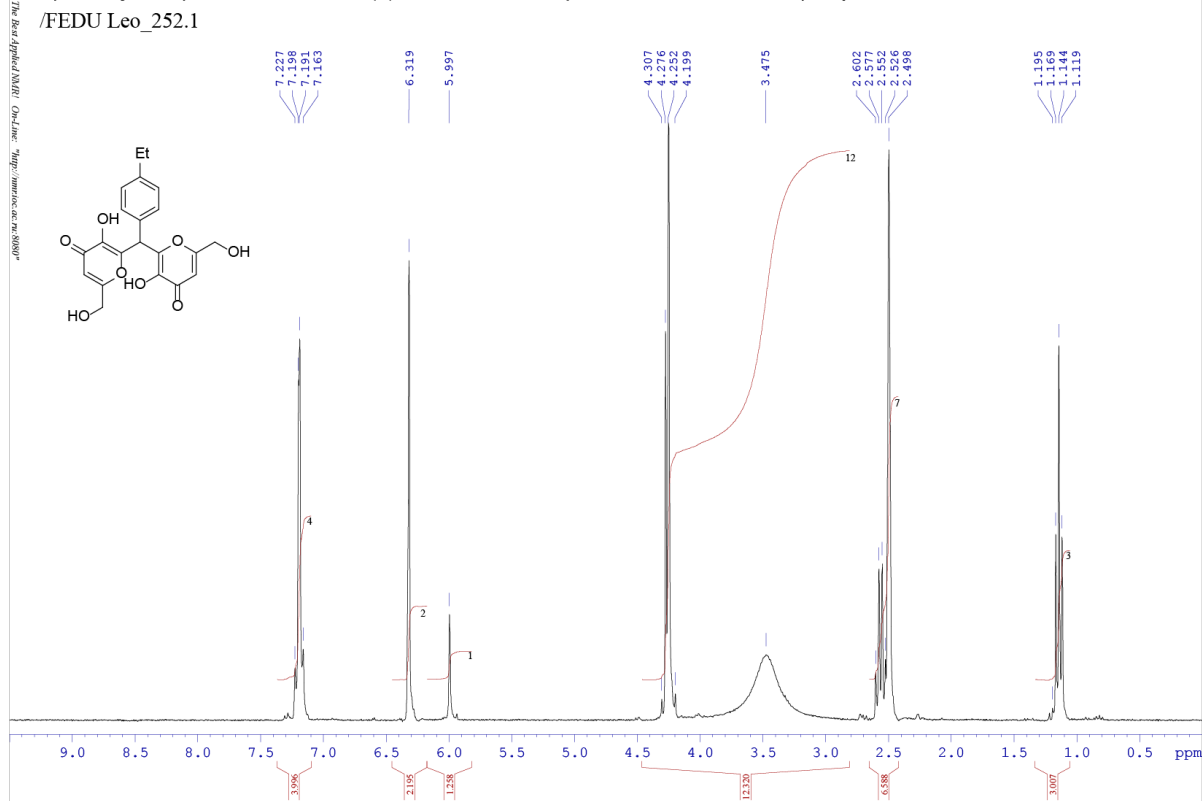
^b*D. I. Mendeleev University of Chemical Technology of Russia, Miusskaya square 9, 125047 Moscow, Russia*

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¹ H and ¹³ C NMR spectra of novel 2,2'-[(aryl)methylene]bis[3-hydroxy-6-(hydroxymethyl)-4H-pyran-4-ones] 2c,d,f-m with tetramethylsilane (TMS) as internal standard	S2
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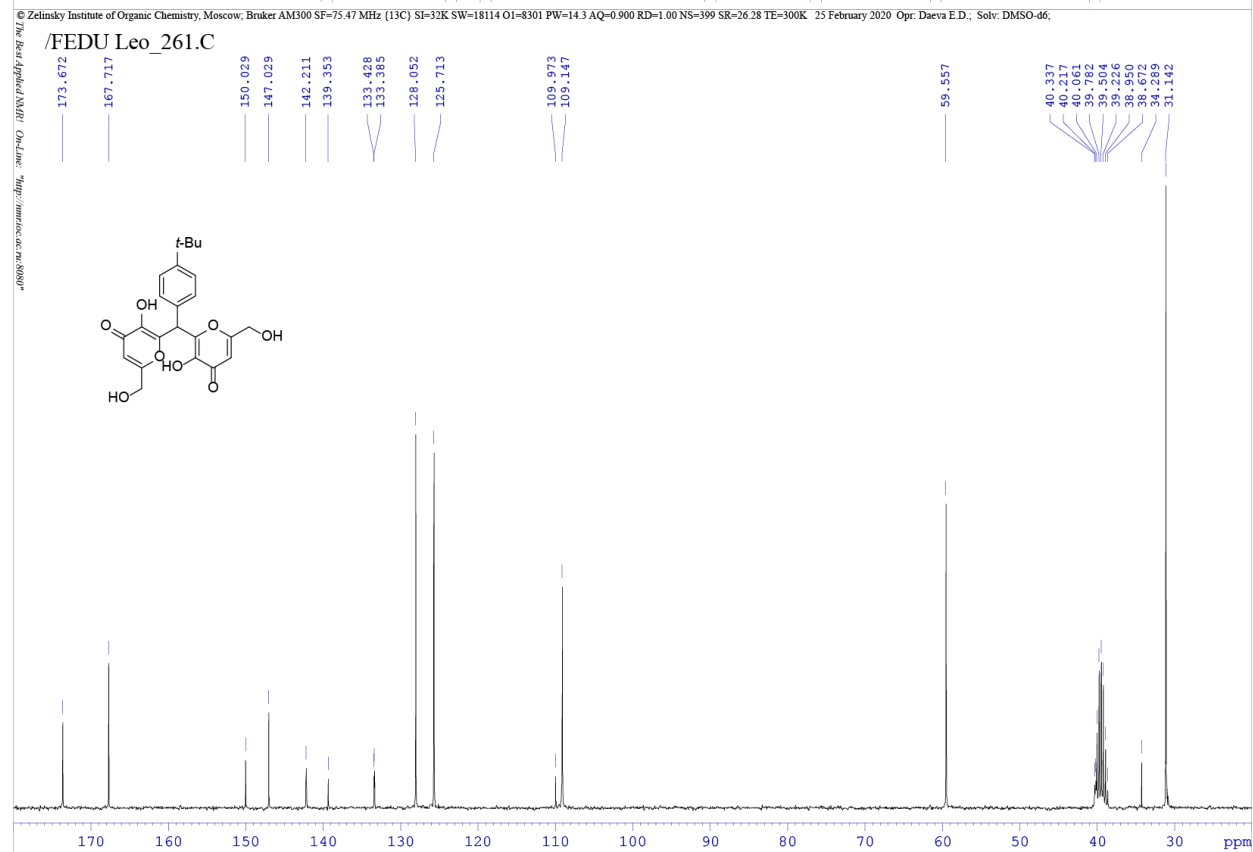
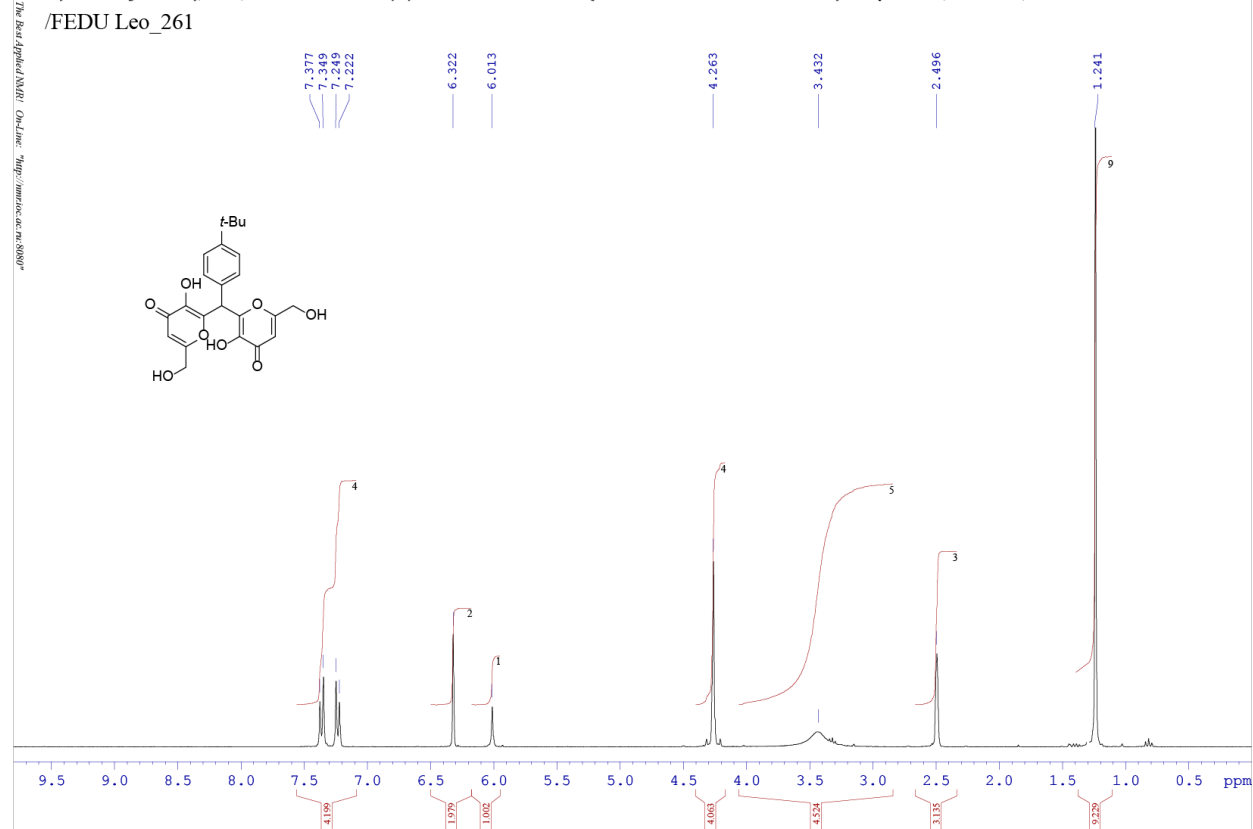
Chemical shifts (δ) are reported in parts per million (ppm) downfield of TMS**2,2'-[(4-Ethylphenyl)methylene]bis[3-hydroxy-6-(hydroxymethyl)-4H-pyran-4-one] (2c)**

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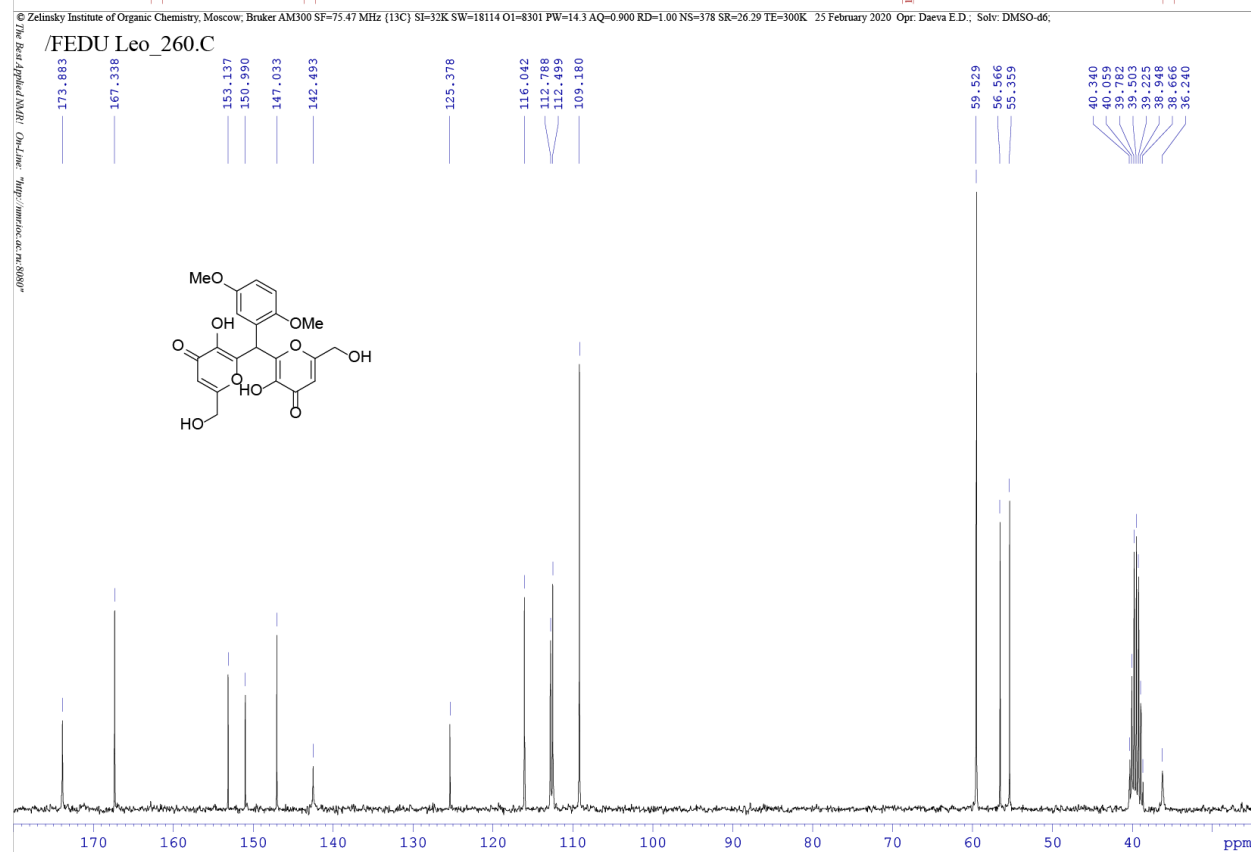
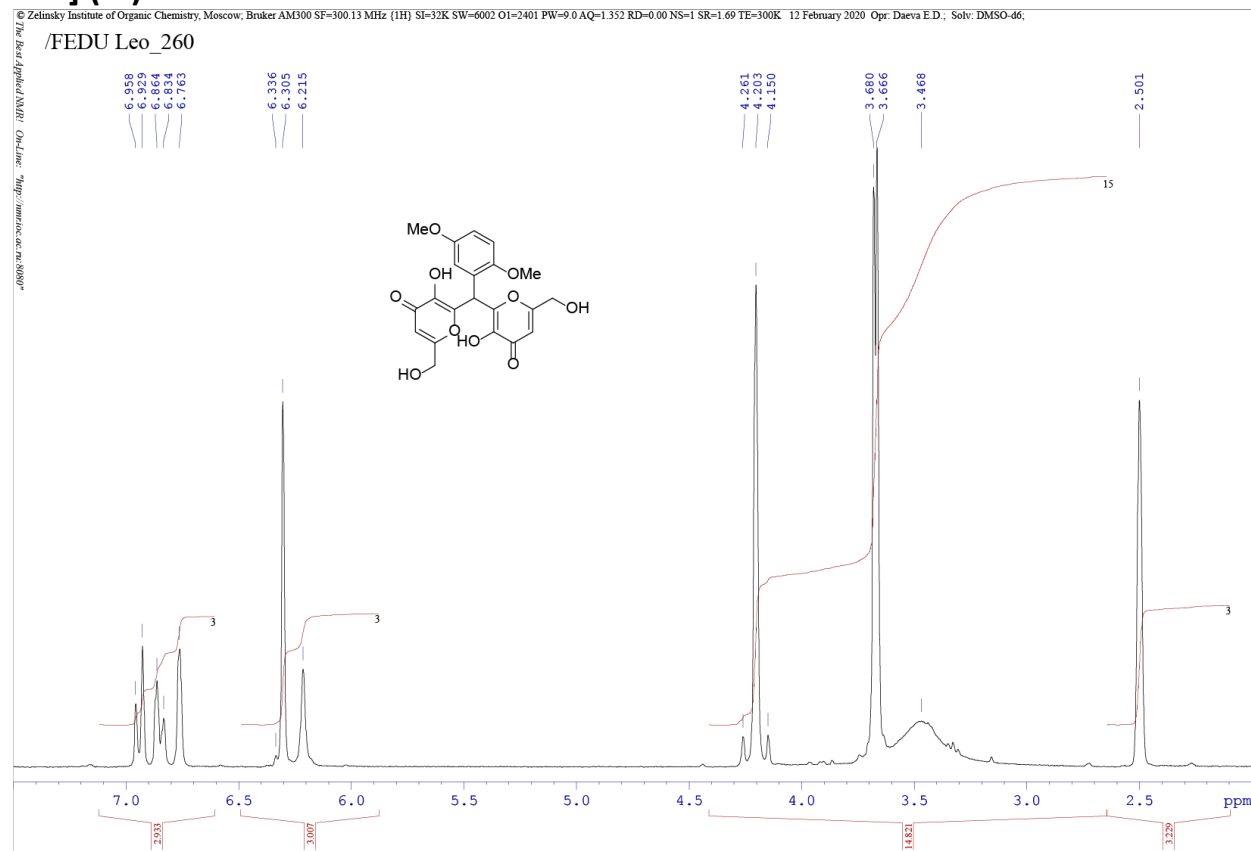


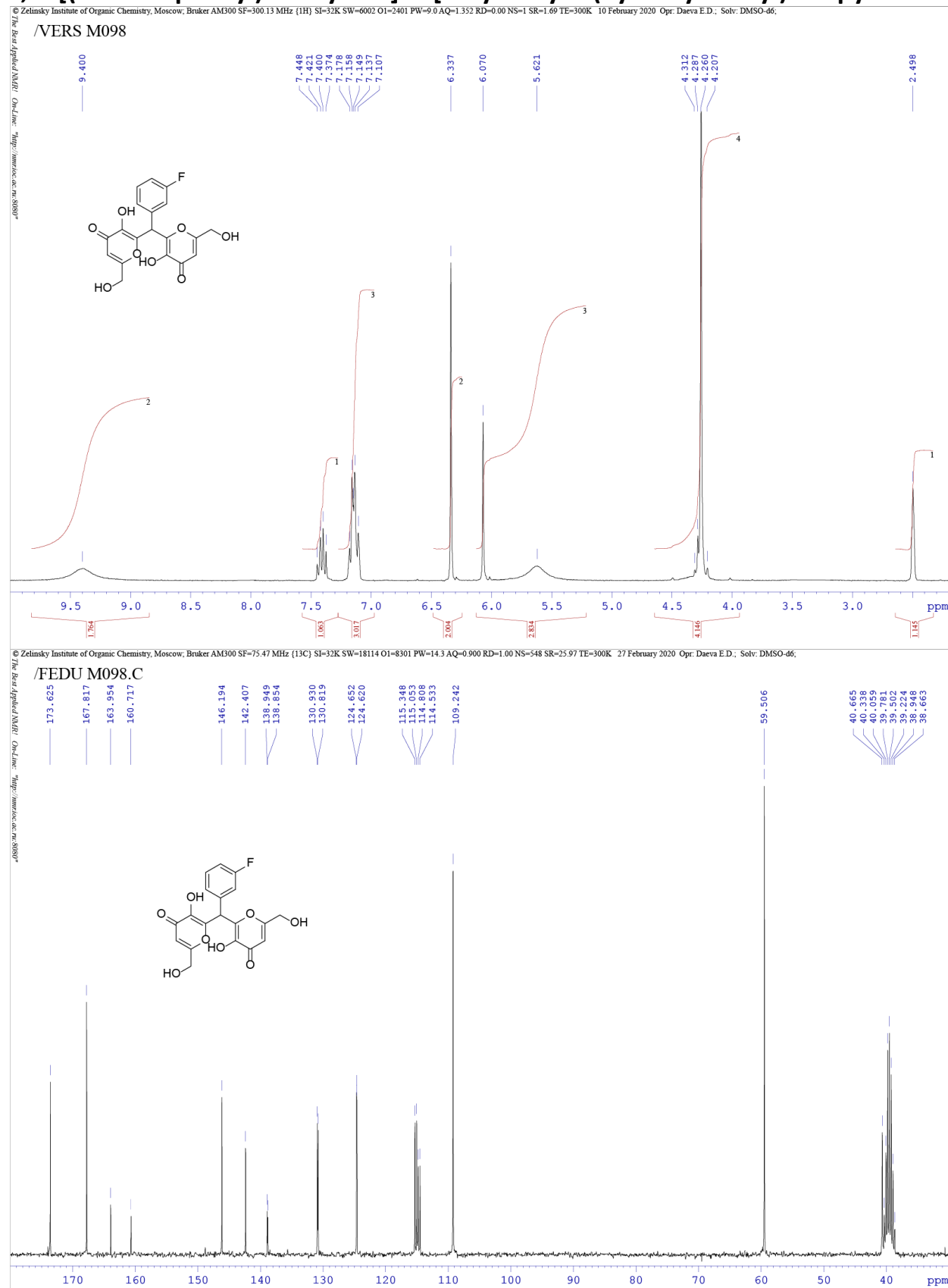
2,2'-[(4-*Tert*-butylphenyl)methylene]bis[3-hydroxy-6-(hydroxymethyl)-4*H*-pyran-4-one] (2d)

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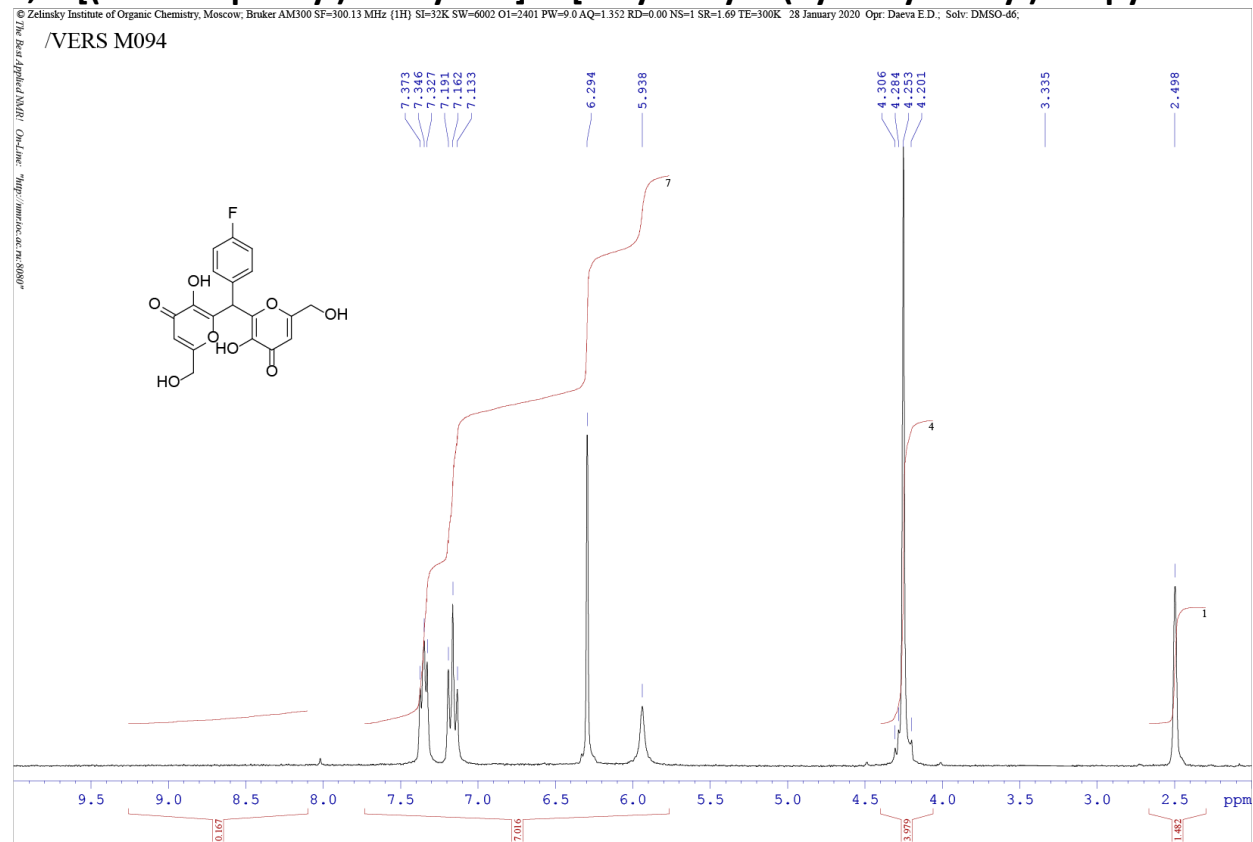
2,2'-[(2,5-Dimethoxyphenyl)methylene]bis[3-hydroxy-6-(hydroxymethyl)-4H-pyran-4-one] (2f)



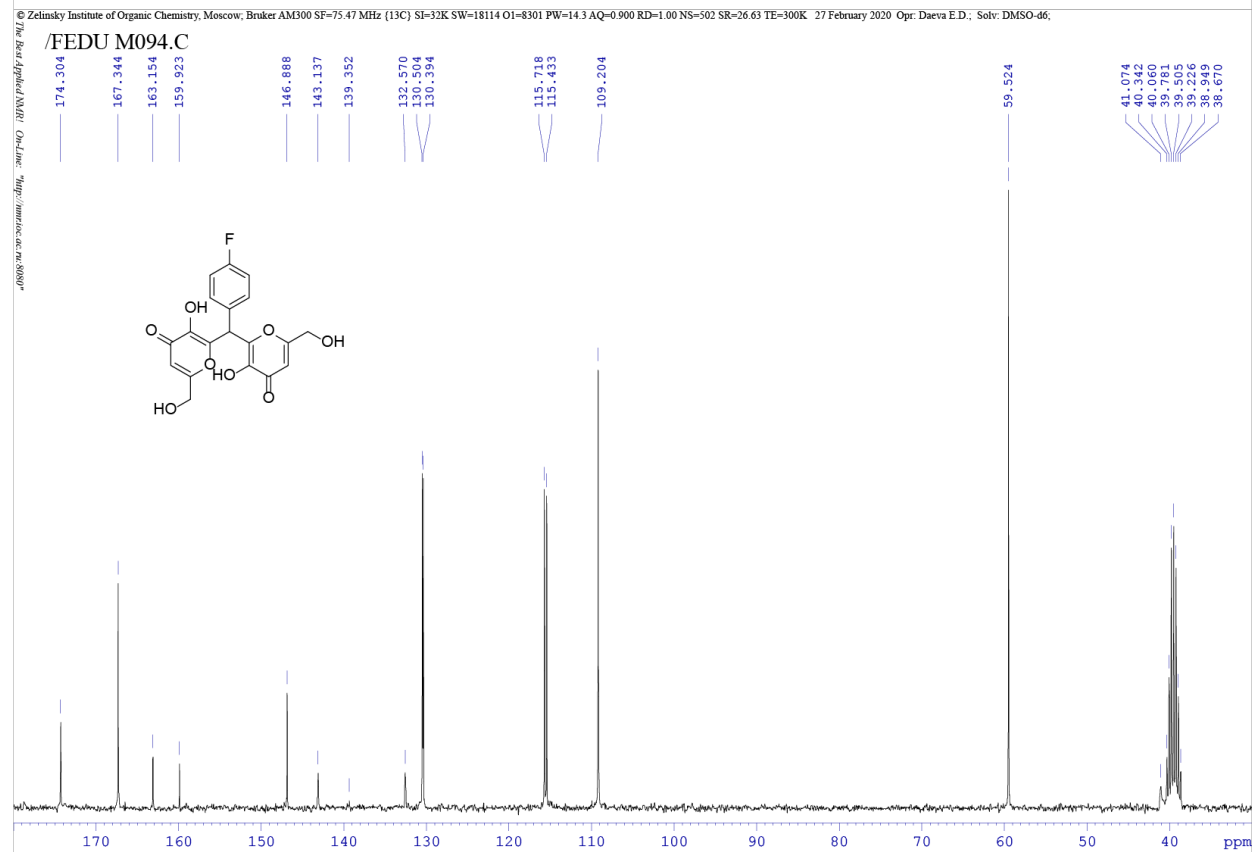
2,2'-[(3-Fluorophenyl)methylene]bis[3-hydroxy-6-(hydroxymethyl)-4H-pyran-4-one] (2g)

2,2'-[(4-Fluorophenyl)methylene]bis[3-hydroxy-6-(hydroxymethyl)-4H-pyran-4-one] (2h)

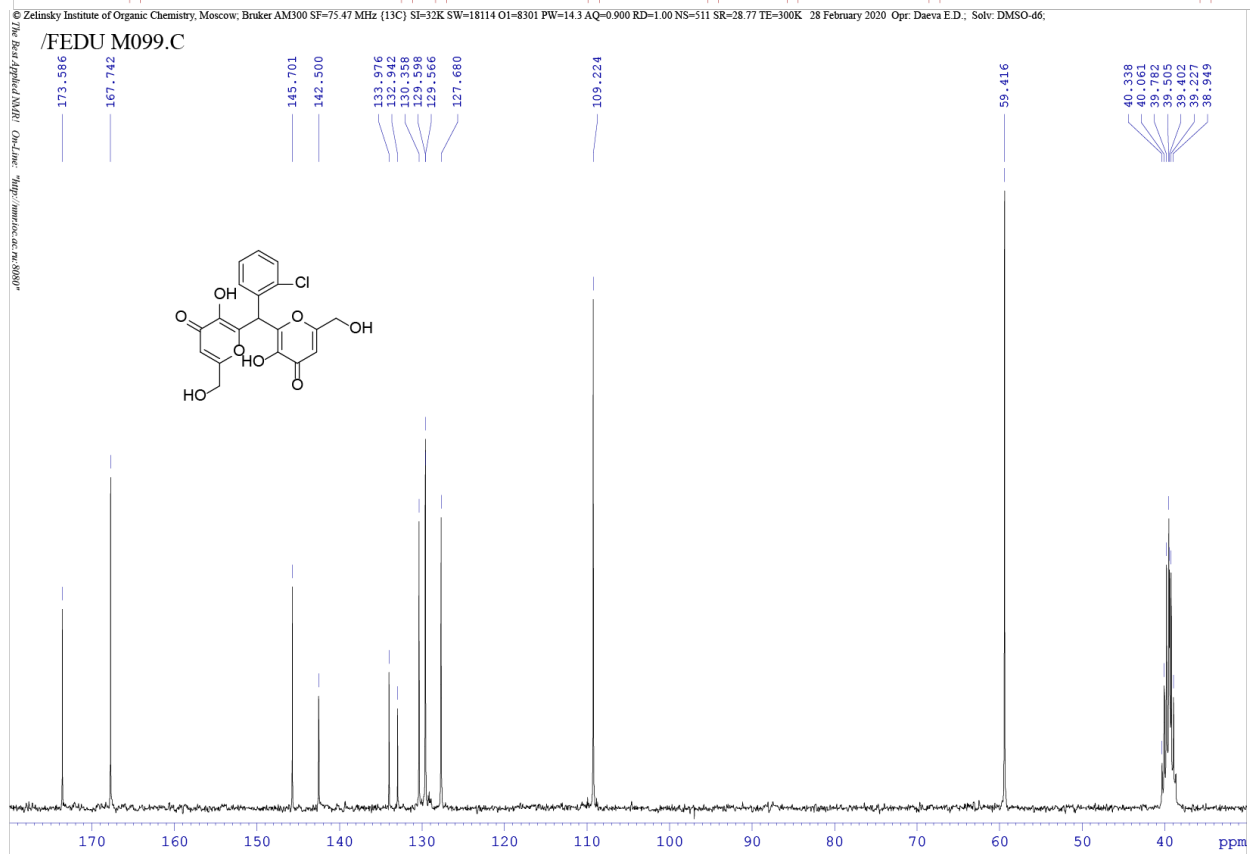
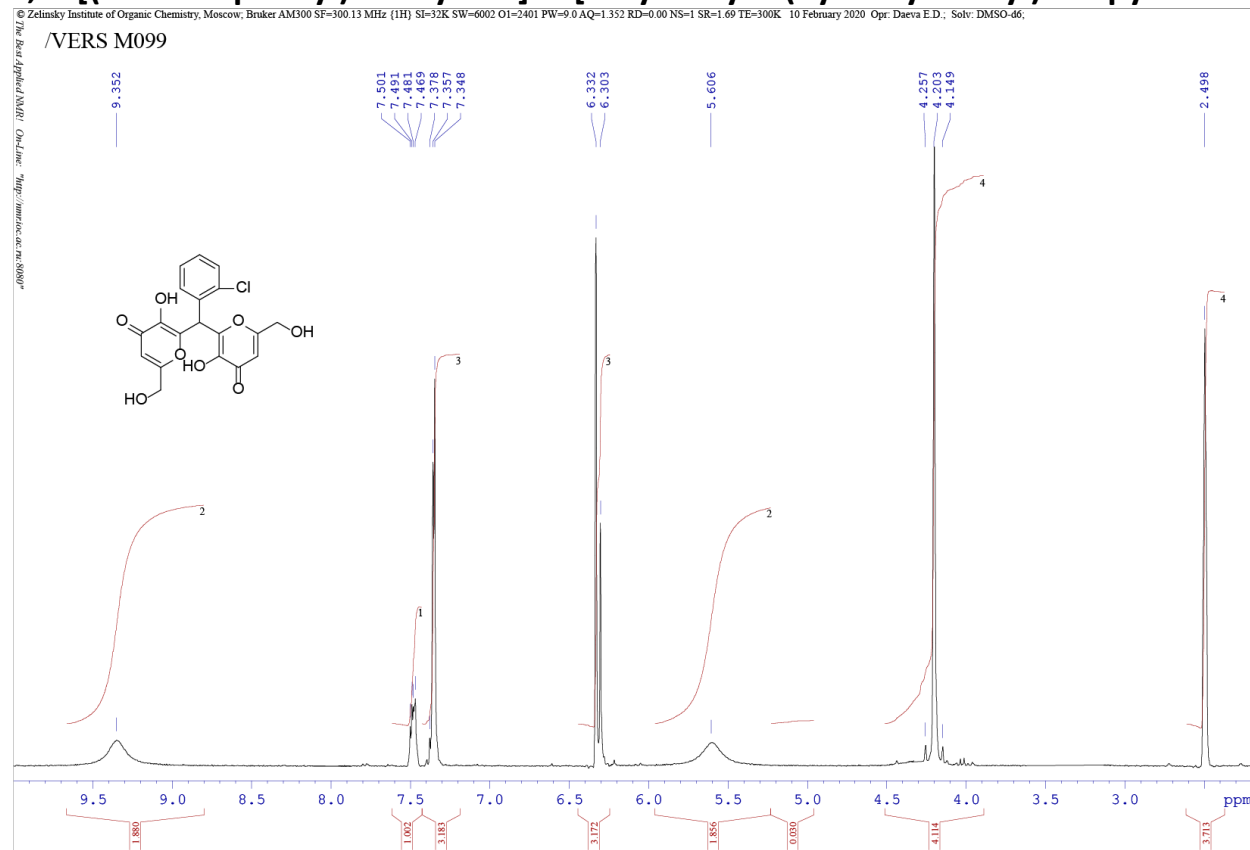
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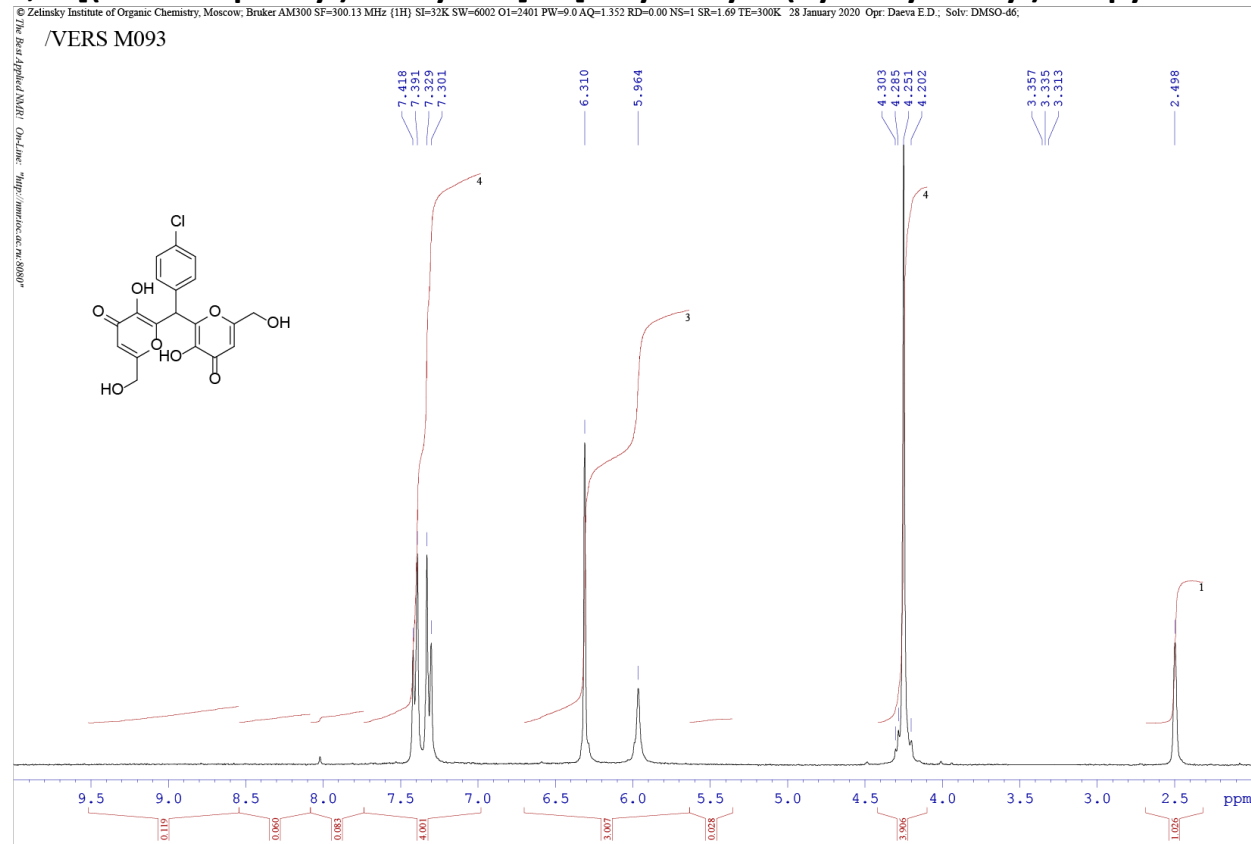


2,2'-[(2-Chlorophenyl)methylene]bis[3-hydroxy-6-(hydroxymethyl)-4H-pyran-4-one] (2i)

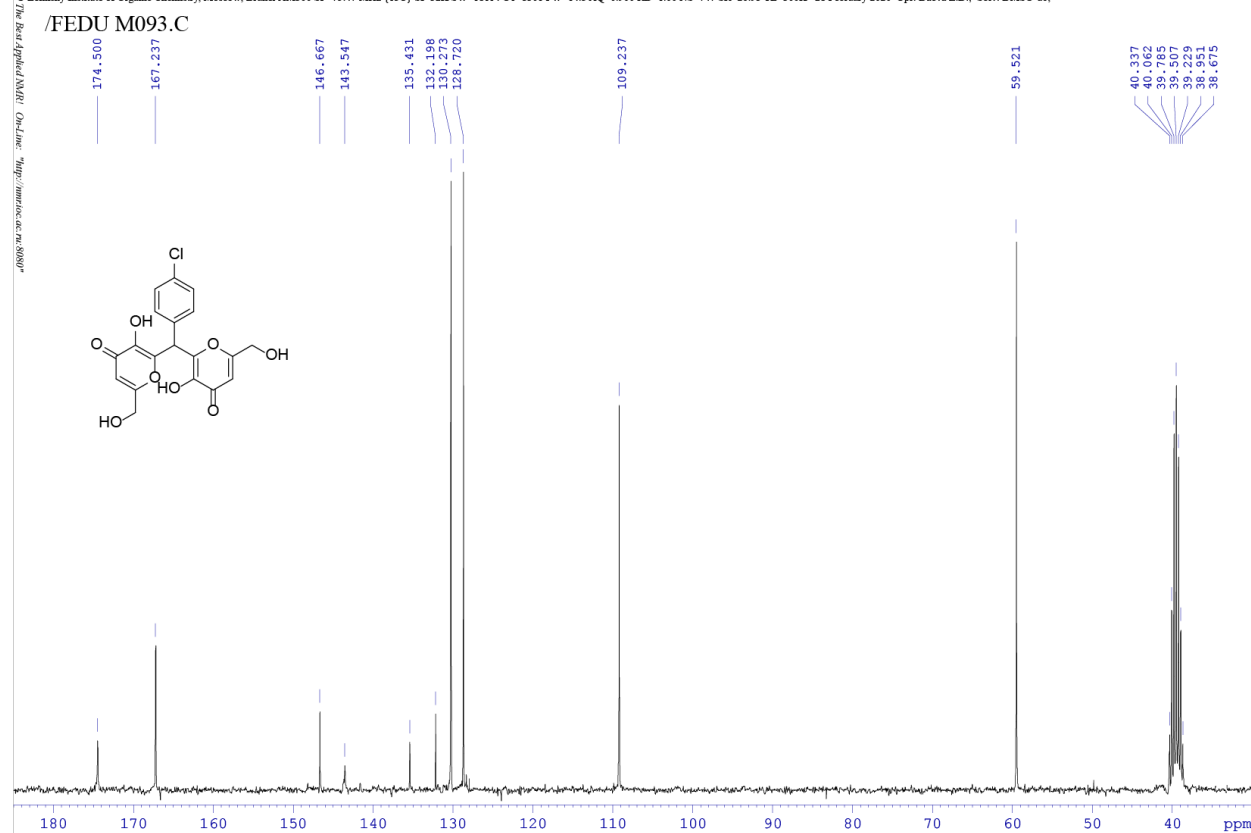


2,2'-[(4-Chlorophenyl)methylene]bis[3-hydroxy-6-(hydroxymethyl)-4H-pyran-4-one] (2j)

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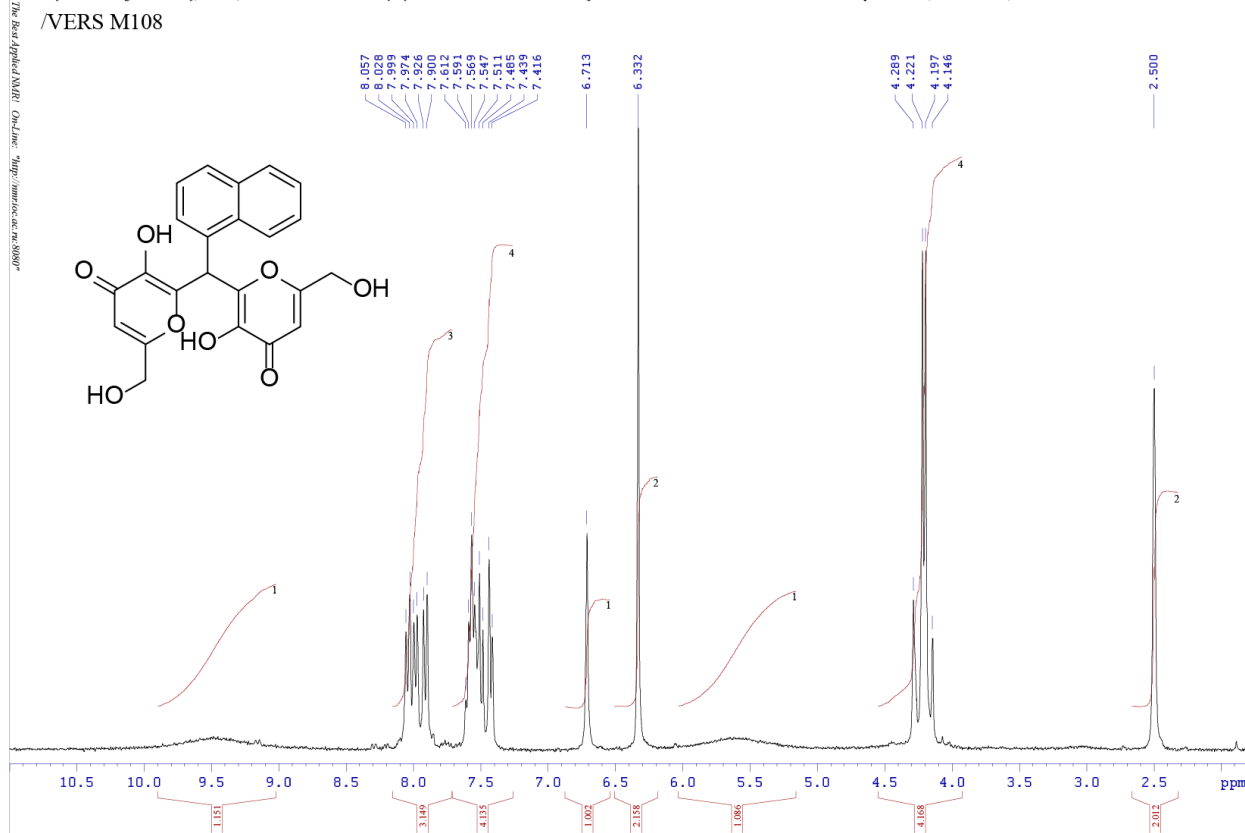


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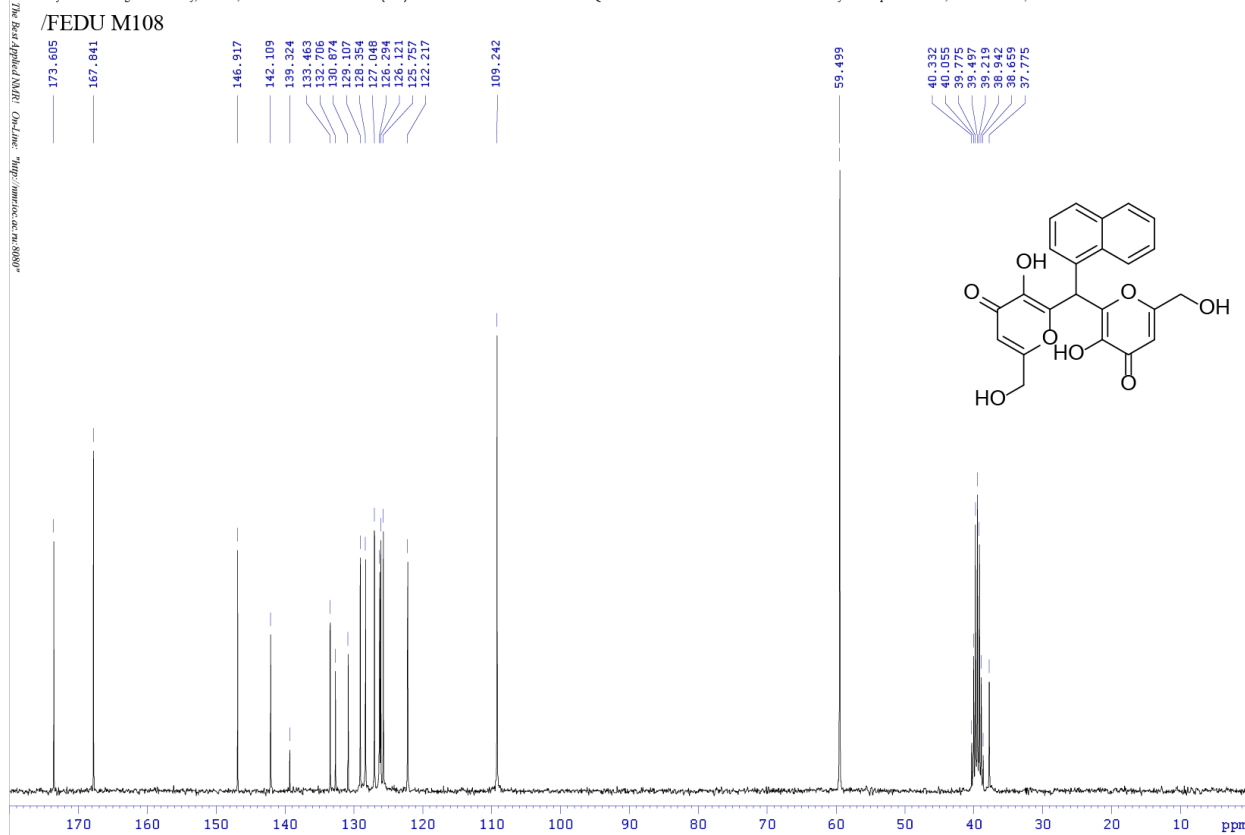


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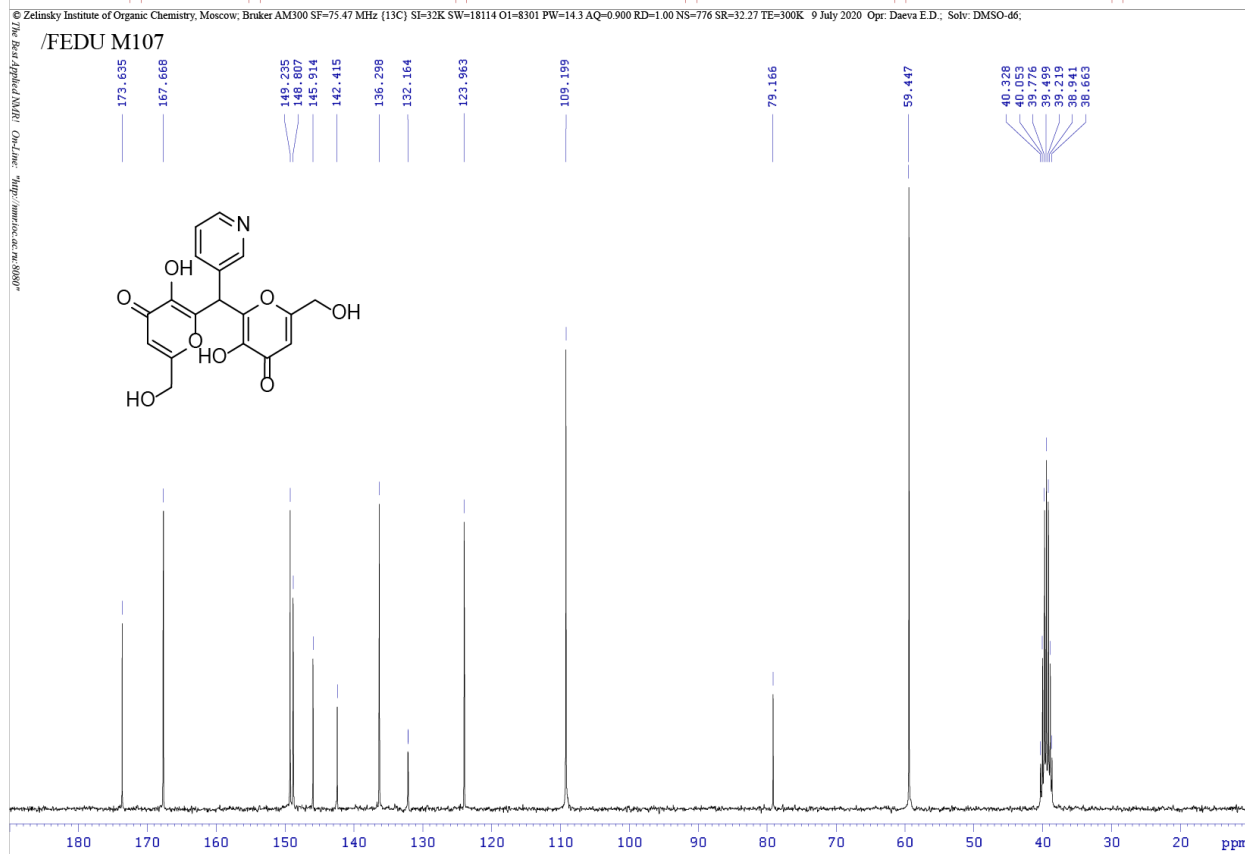
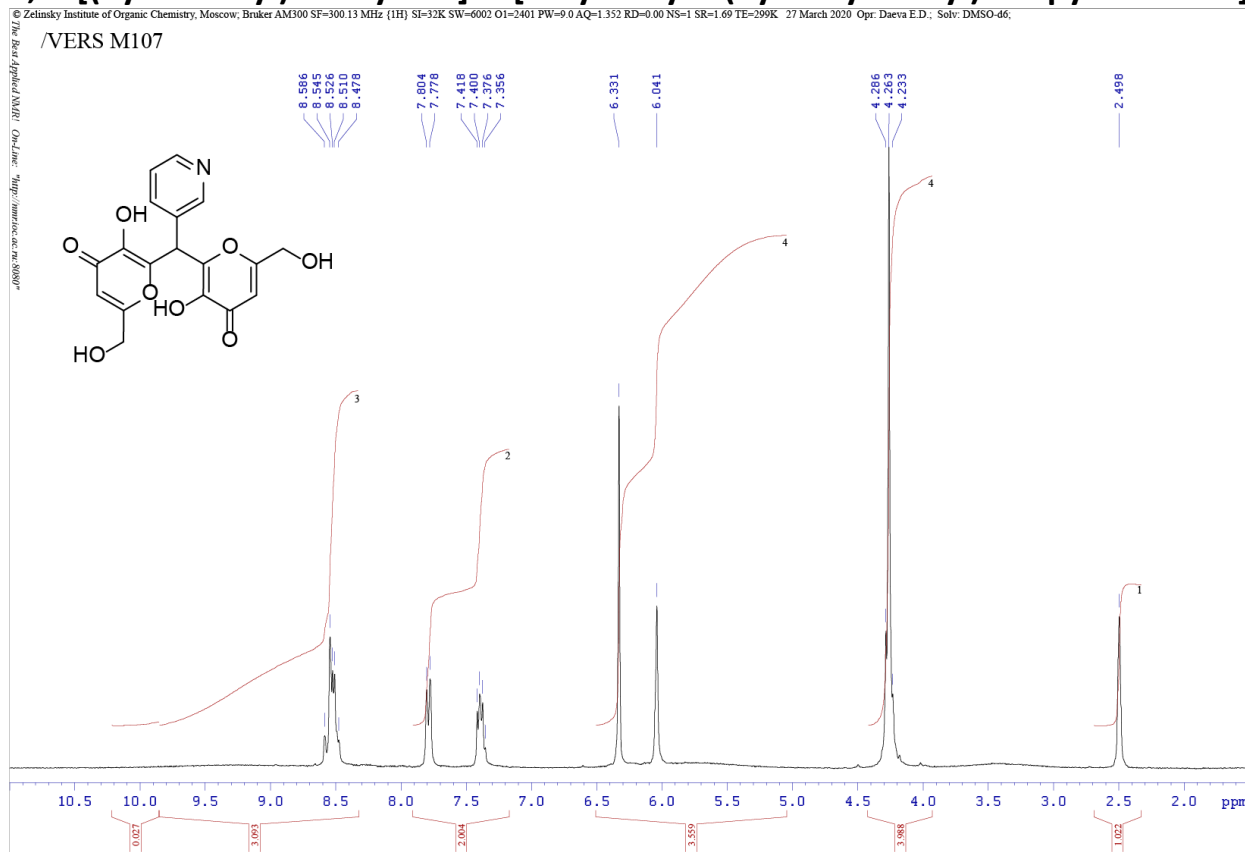
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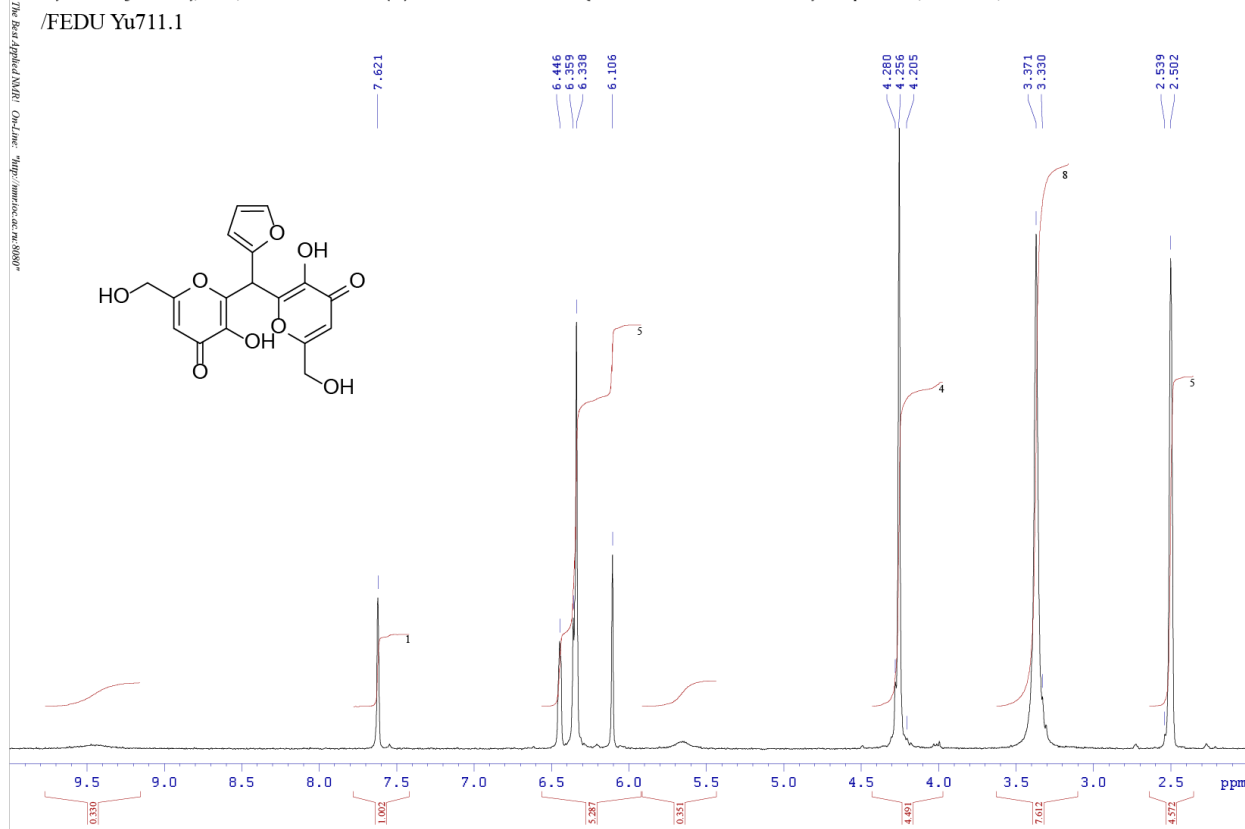


2,2'-[(Pyridin-3-yl)methylene]bis[3-hydroxy-6-(hydroxymethyl)-4H-pyran-4-one] (2l).



2,2'-[(2-Furyl)methylene]bis[3-hydroxy-6-(hydroxymethyl)-4H-pyran-4-one] (2m).

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