

Supplementary Material

Potassium fluoride catalysed multicomponent approach to medicinally privileged 5-[3-hydroxy-6-(hydroxymethyl)-4-oxo-4*H*-pyran-2-yl] substituted chromeno[2,3-*b*]pyridine scaffold

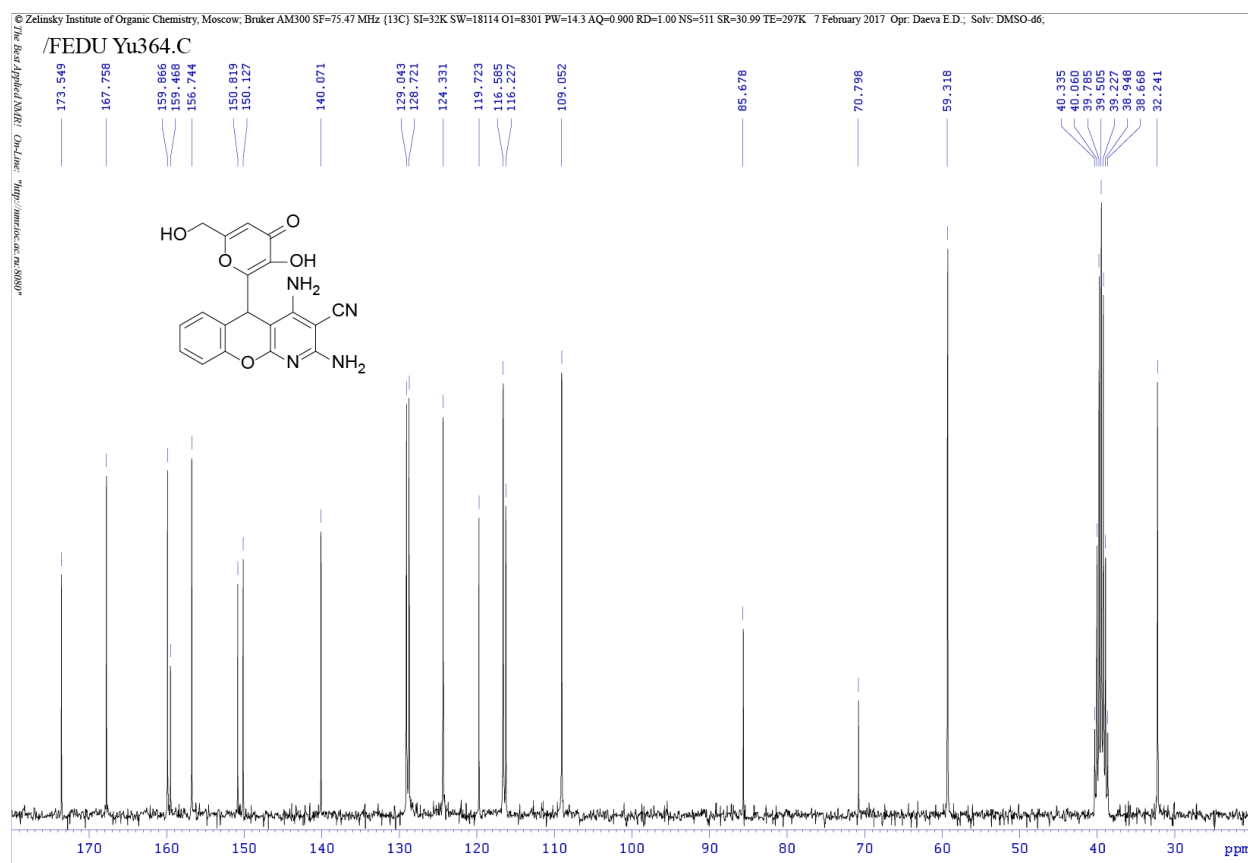
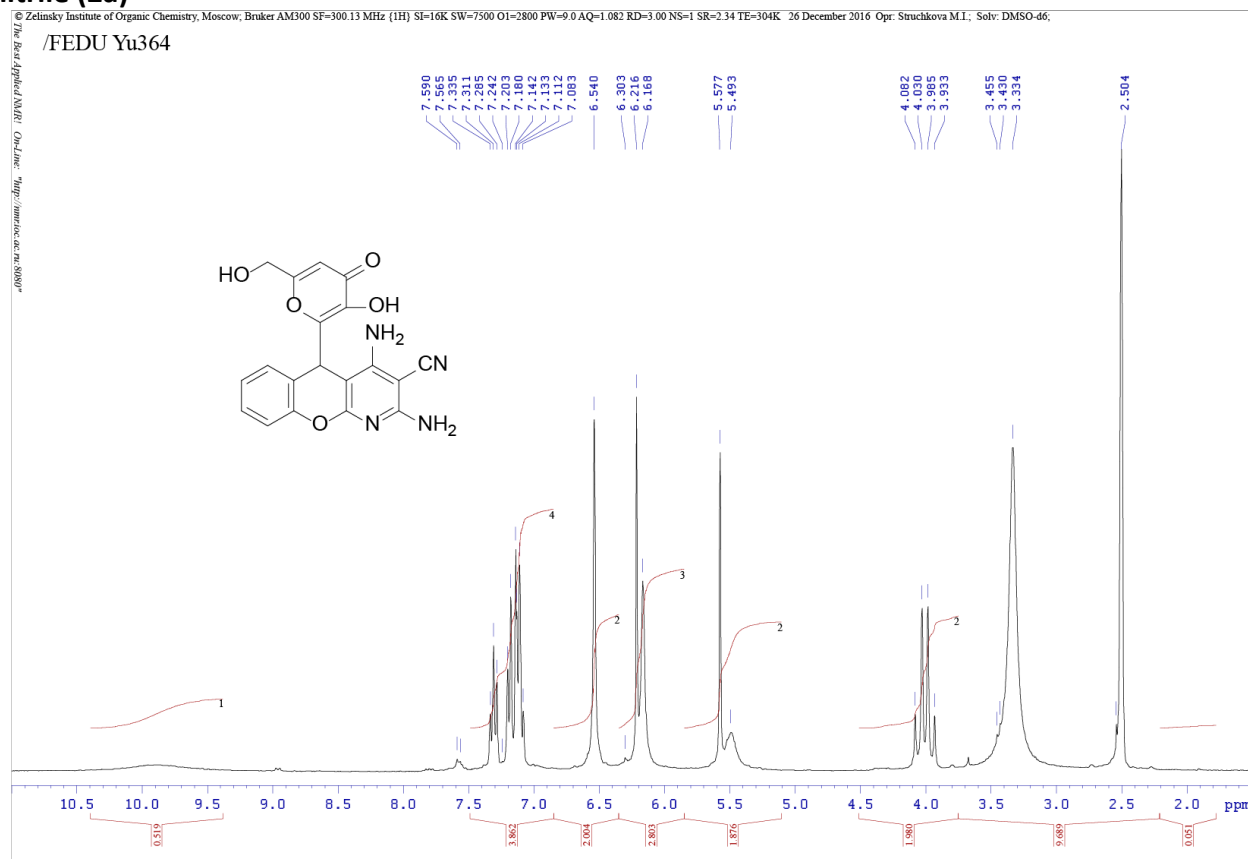
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N. D. Zelinsky Institute of Organic Chemistry, Leninsky prospect 47, 119991 Moscow, Russia

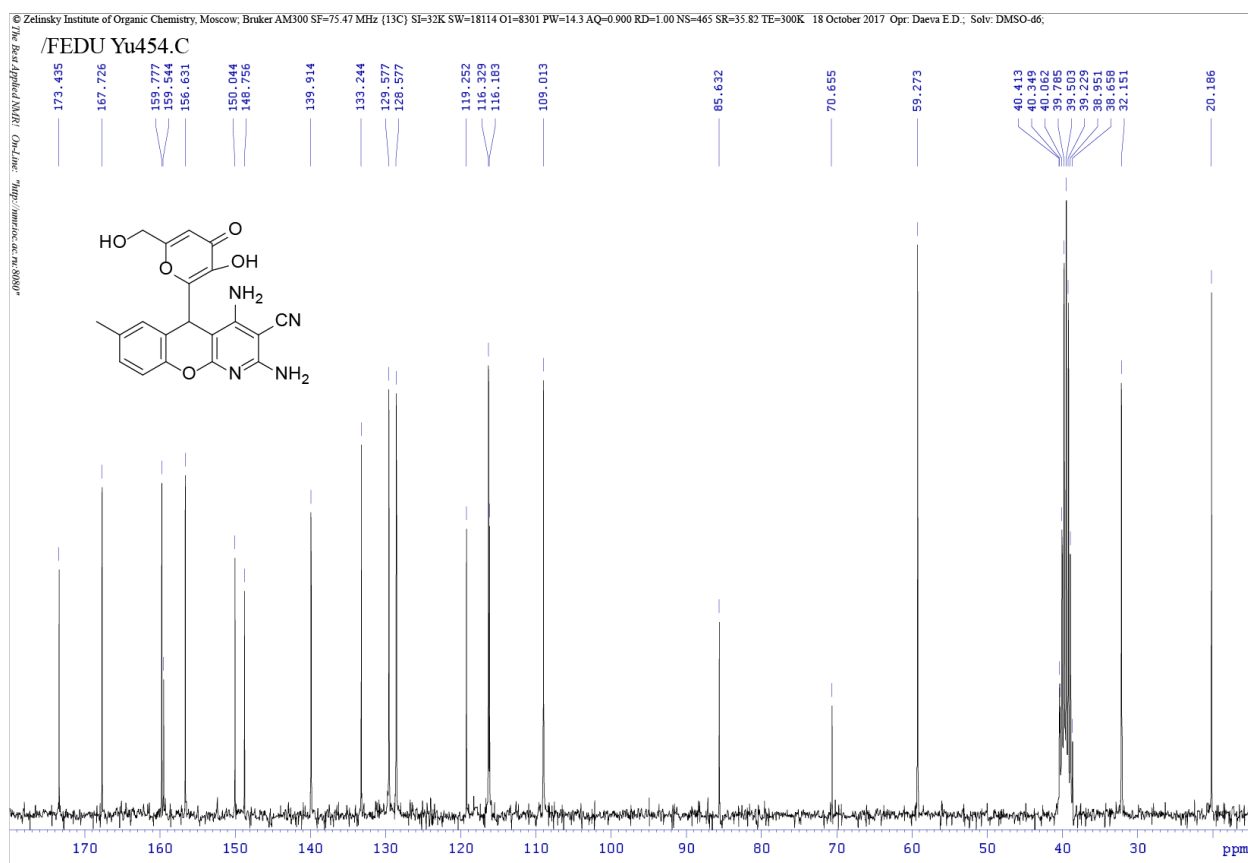
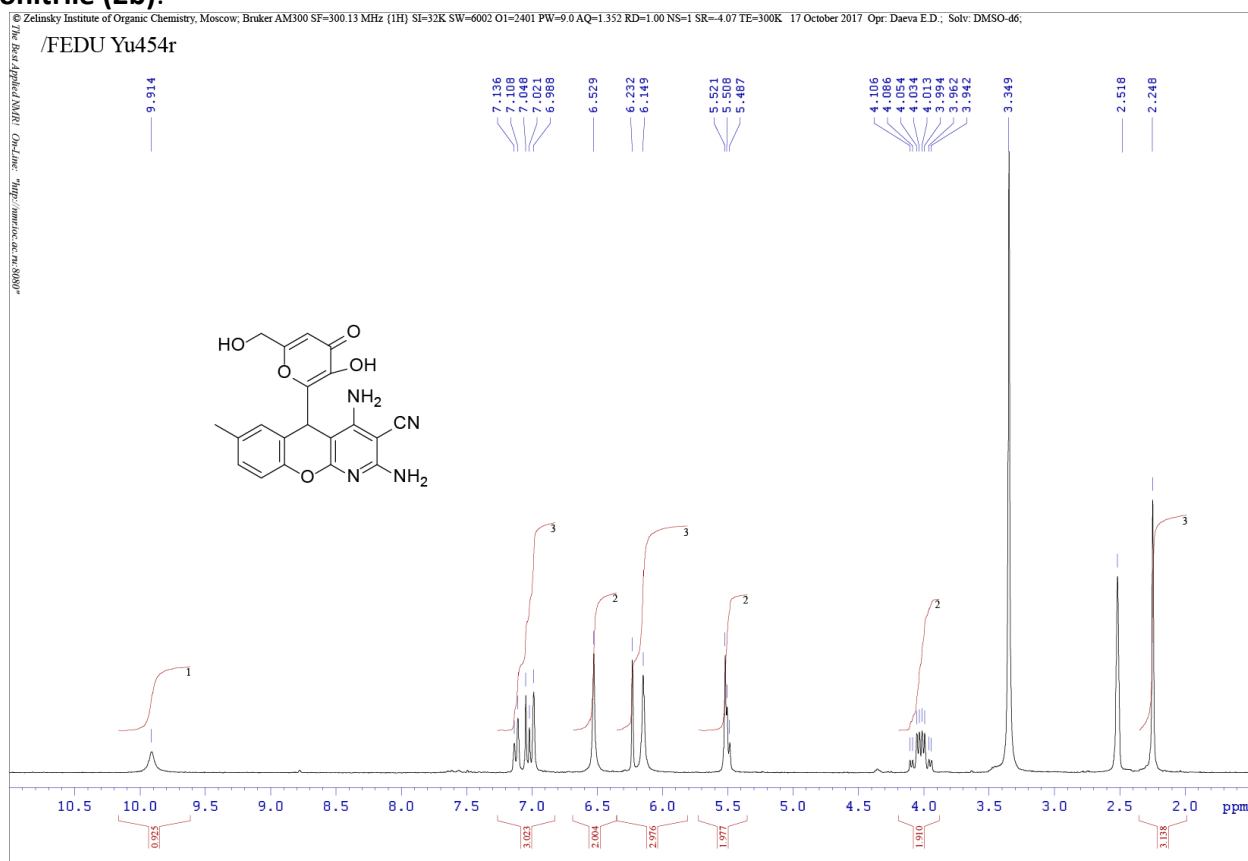
Email: elinson@ioc.ac.ru

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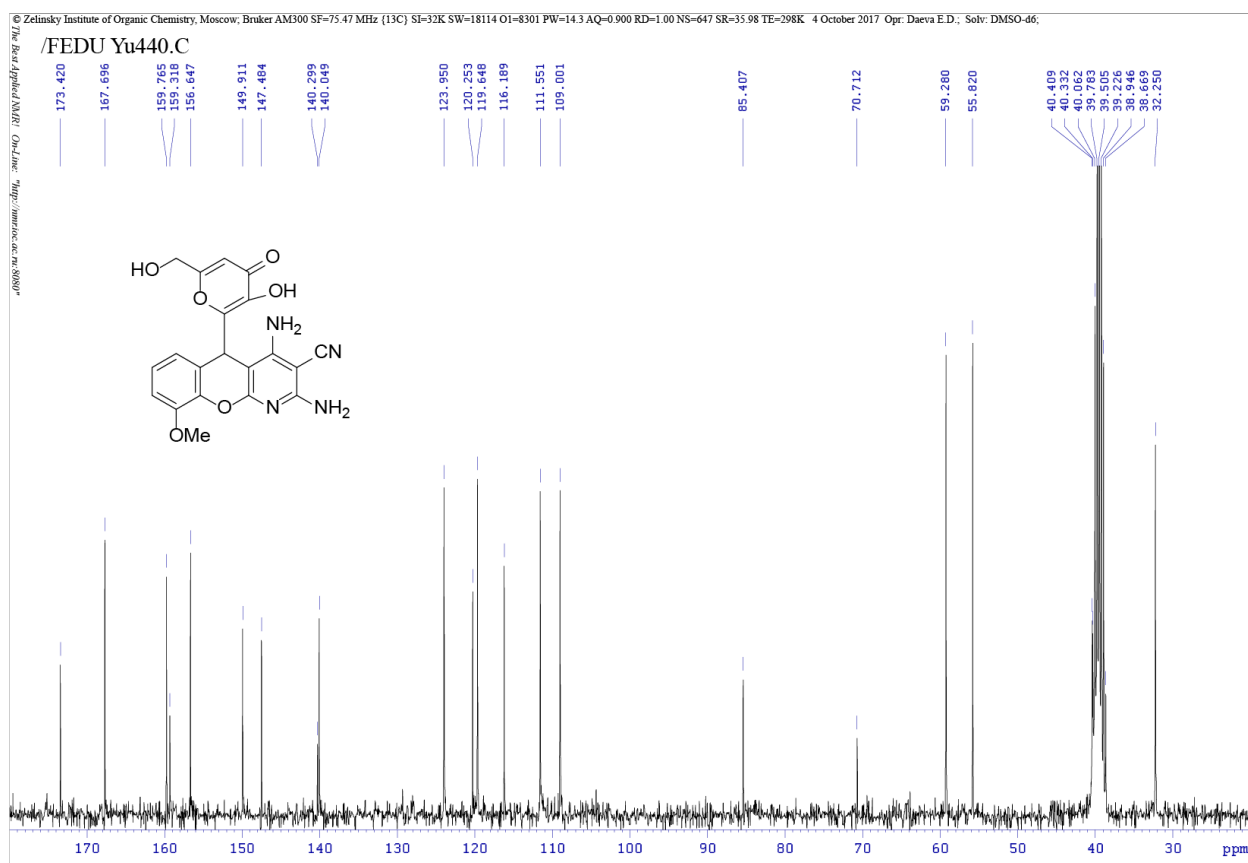
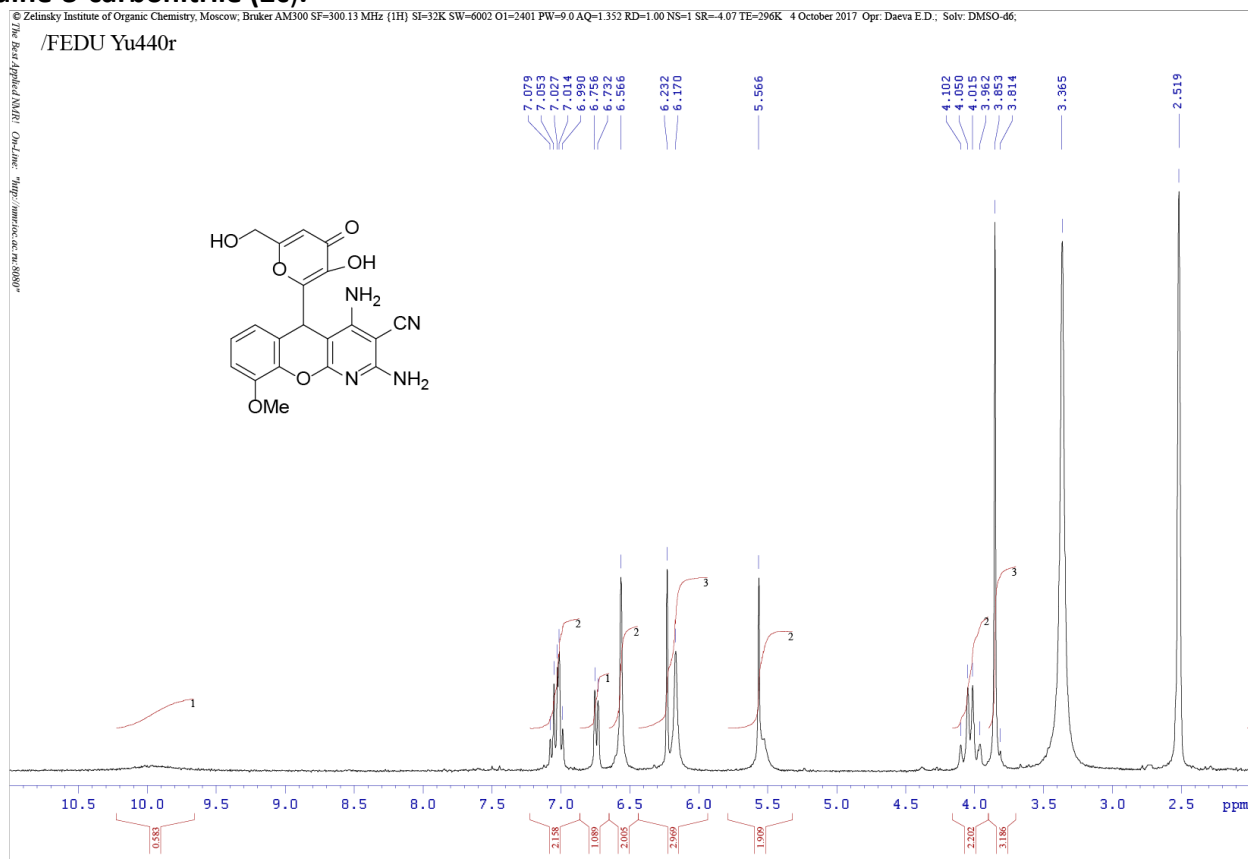
¹ H and ¹³ C NMR spectra of novel 5-[3-hydroxy-6-(hydroxymethyl)-4 <i>H</i> -pyran-2-yl] substituted chromeno[2,3- <i>b</i>]pyridines 2a-j	S2
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2,4-Diamino-5-(3-hydroxy-6-(hydroxymethyl)-4-oxo-4H-pyran-2-yl)-5H-chromeno[2,3-b]-pyridine-3-carbonitrile (2a)

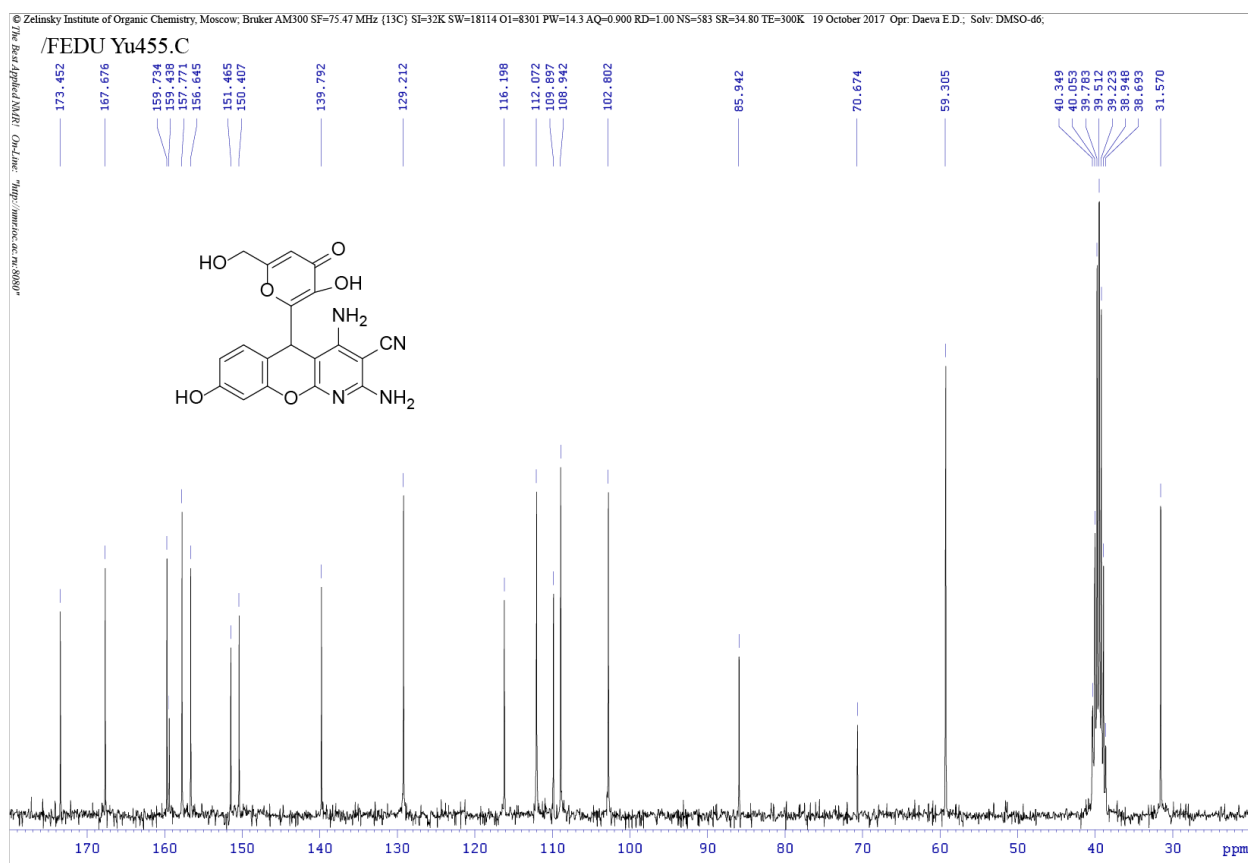
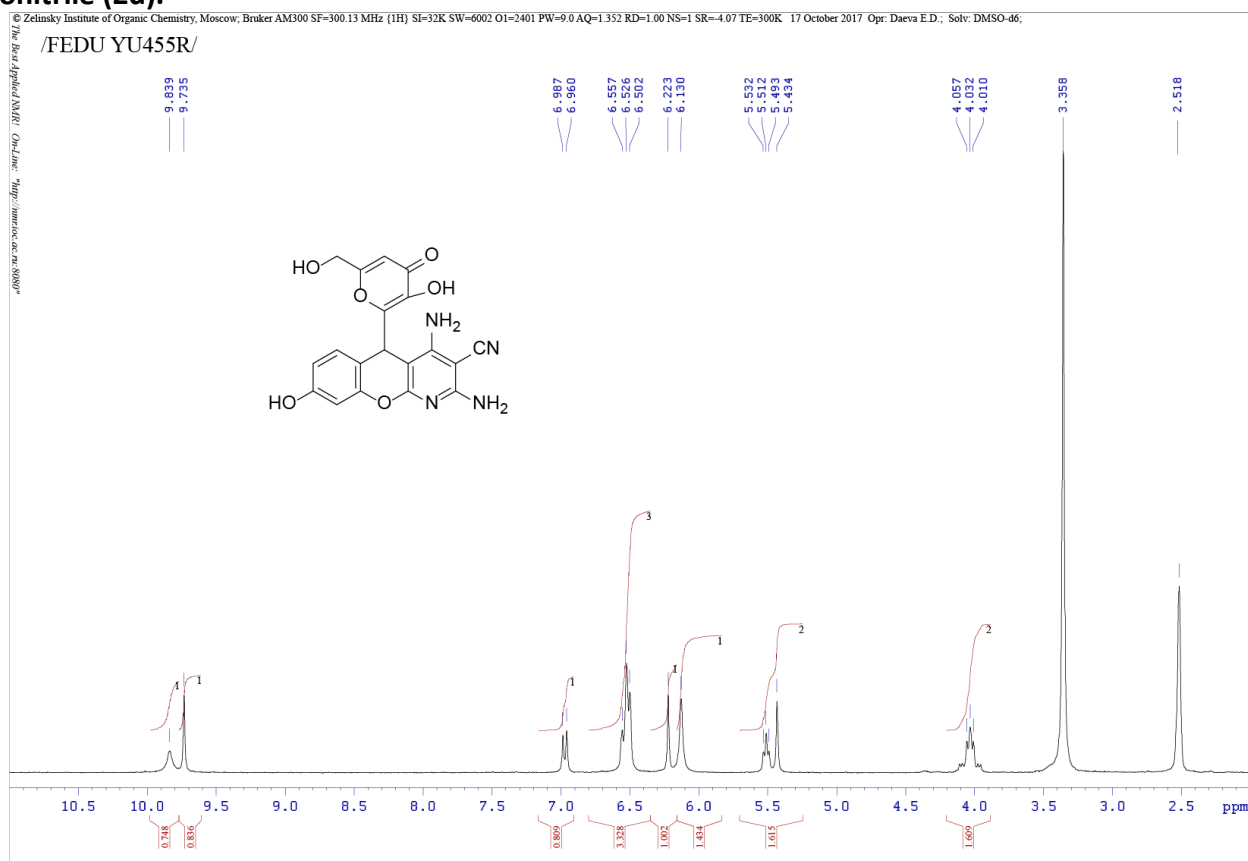
2,4-Diamino-5-(3-hydroxy-6-(hydroxymethyl)-4-oxo-4H-pyran-2-yl)-7-methyl-5H-chromeno[2,3-b]pyridine-3-carbonitrile (2b).



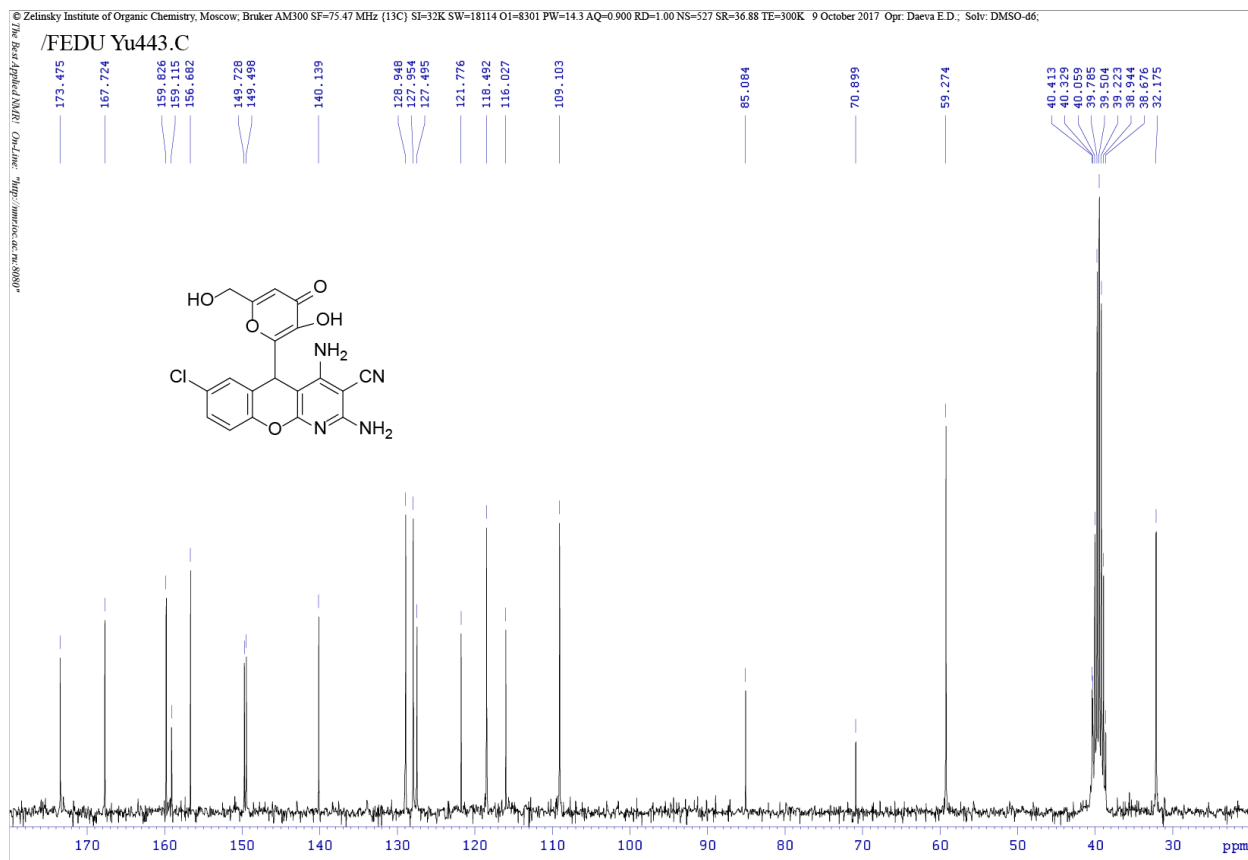
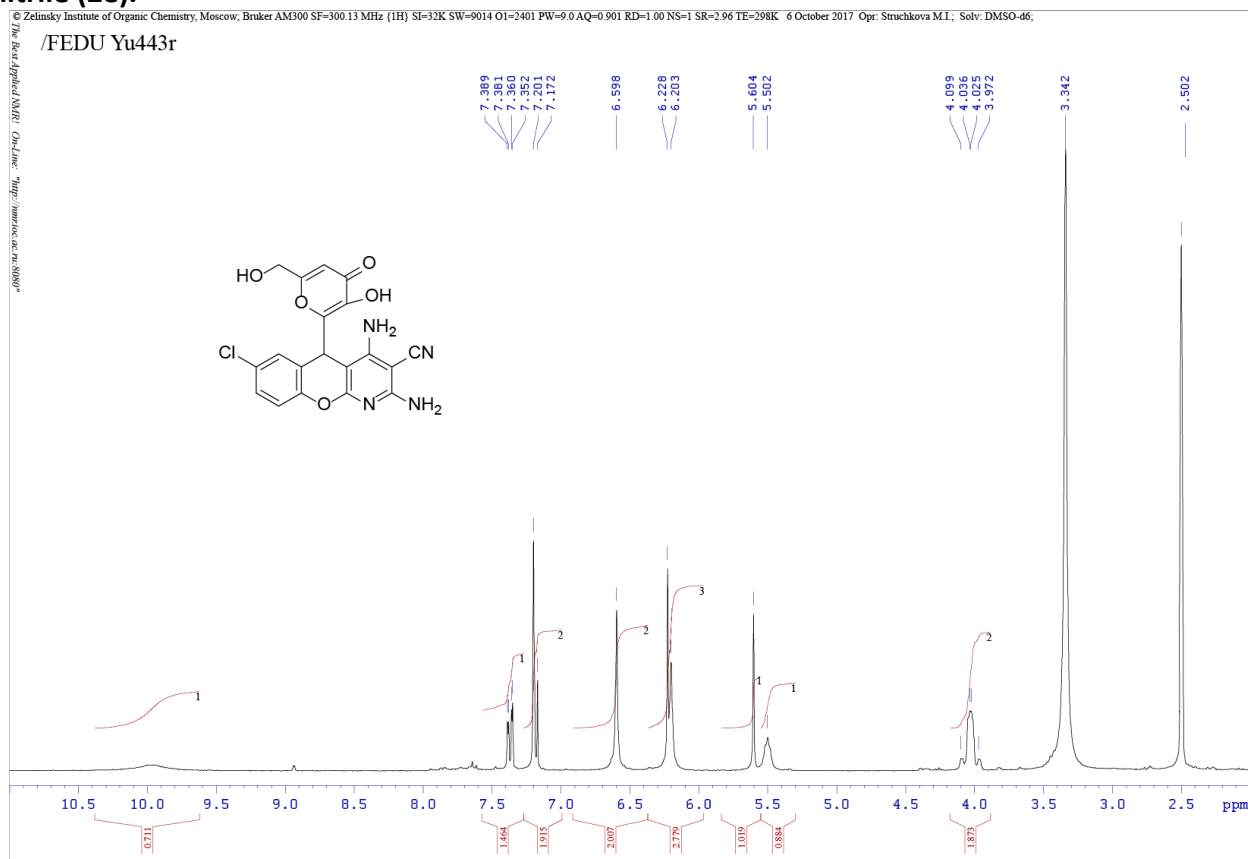
2,4-Diamino-5-(3-hydroxy-6-(hydroxymethyl)-4-oxo-4H-pyran-2-yl)-9-methoxy-5H-chromeno[2,3-b]pyridine-3-carbonitrile (2c).



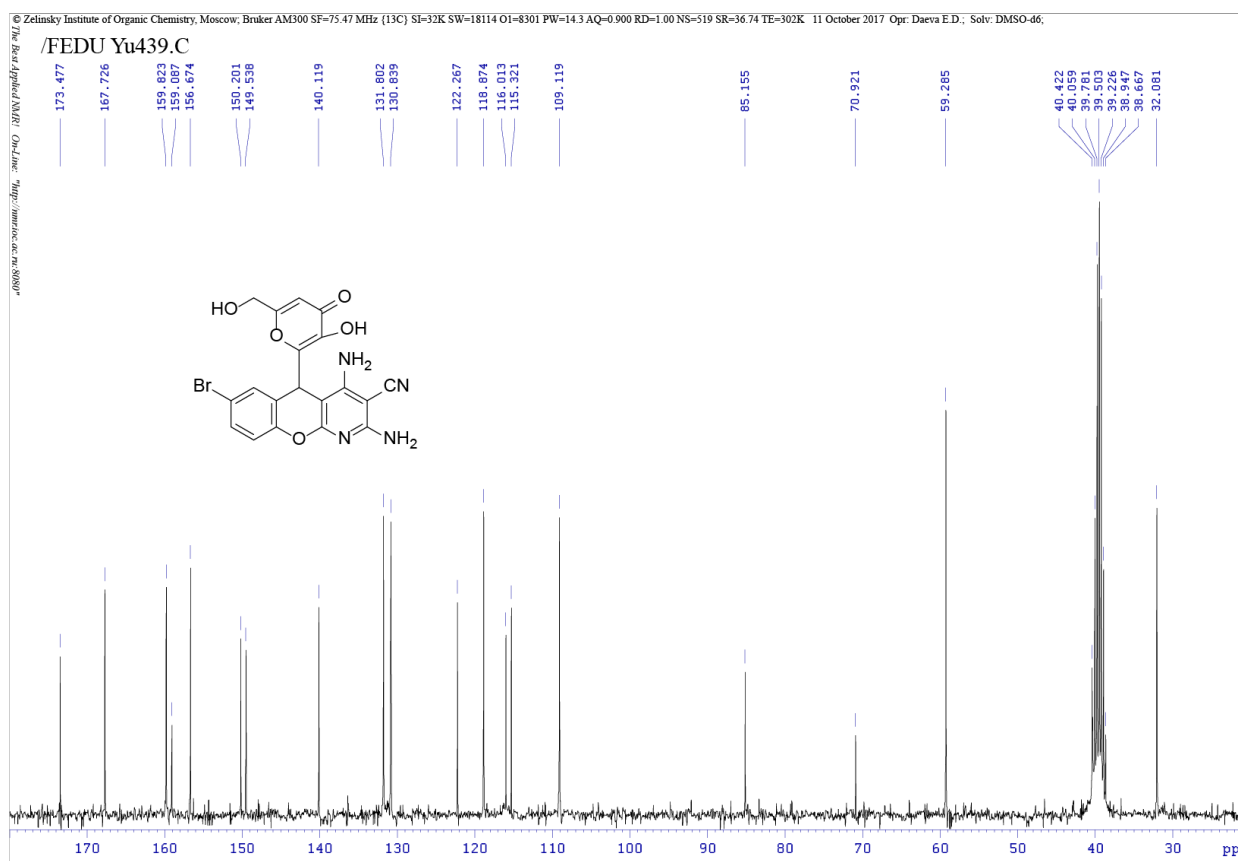
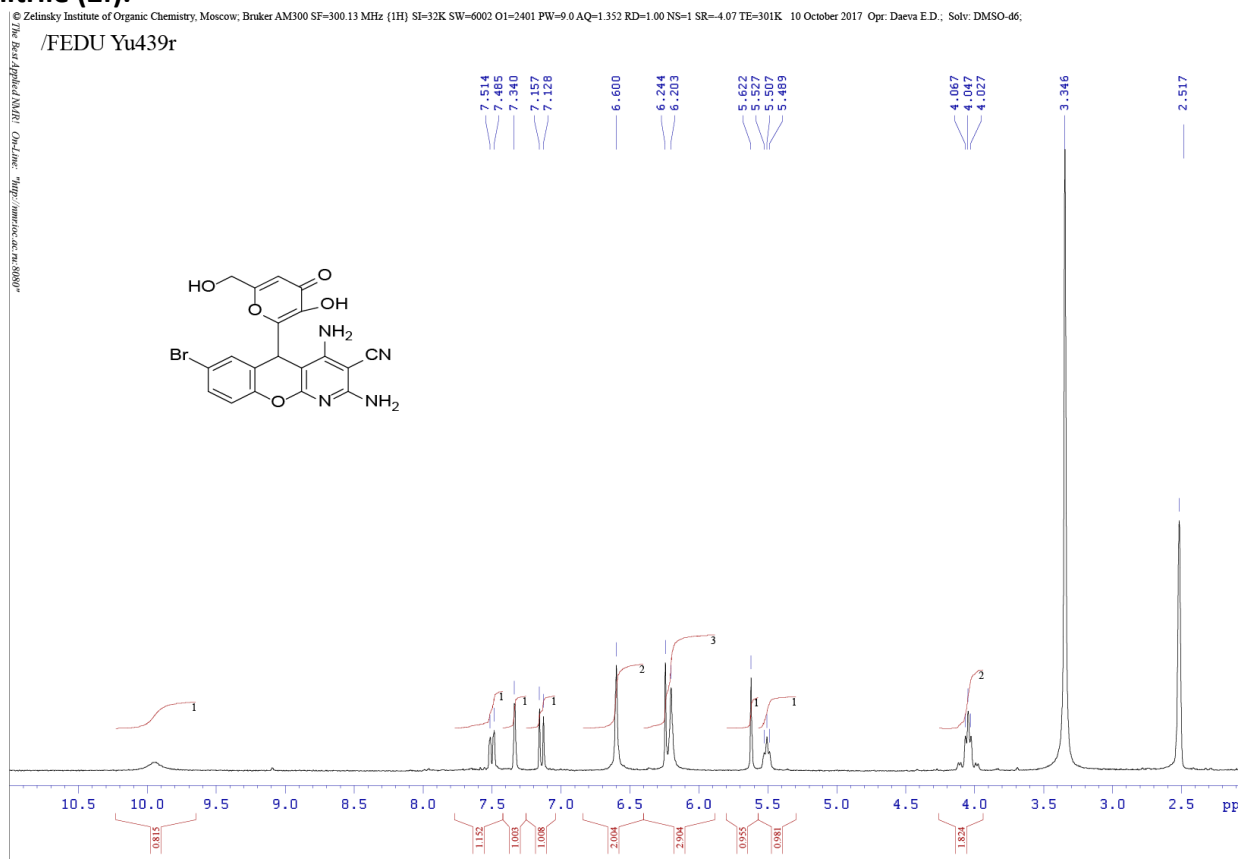
2,4-Diamino-8-hydroxy-5-(3-hydroxy-6-(hydroxymethyl)-4-oxo-4H-pyran-2-yl)-5H-chromeno[2,3-b]pyridine-3-carbonitrile (2d).



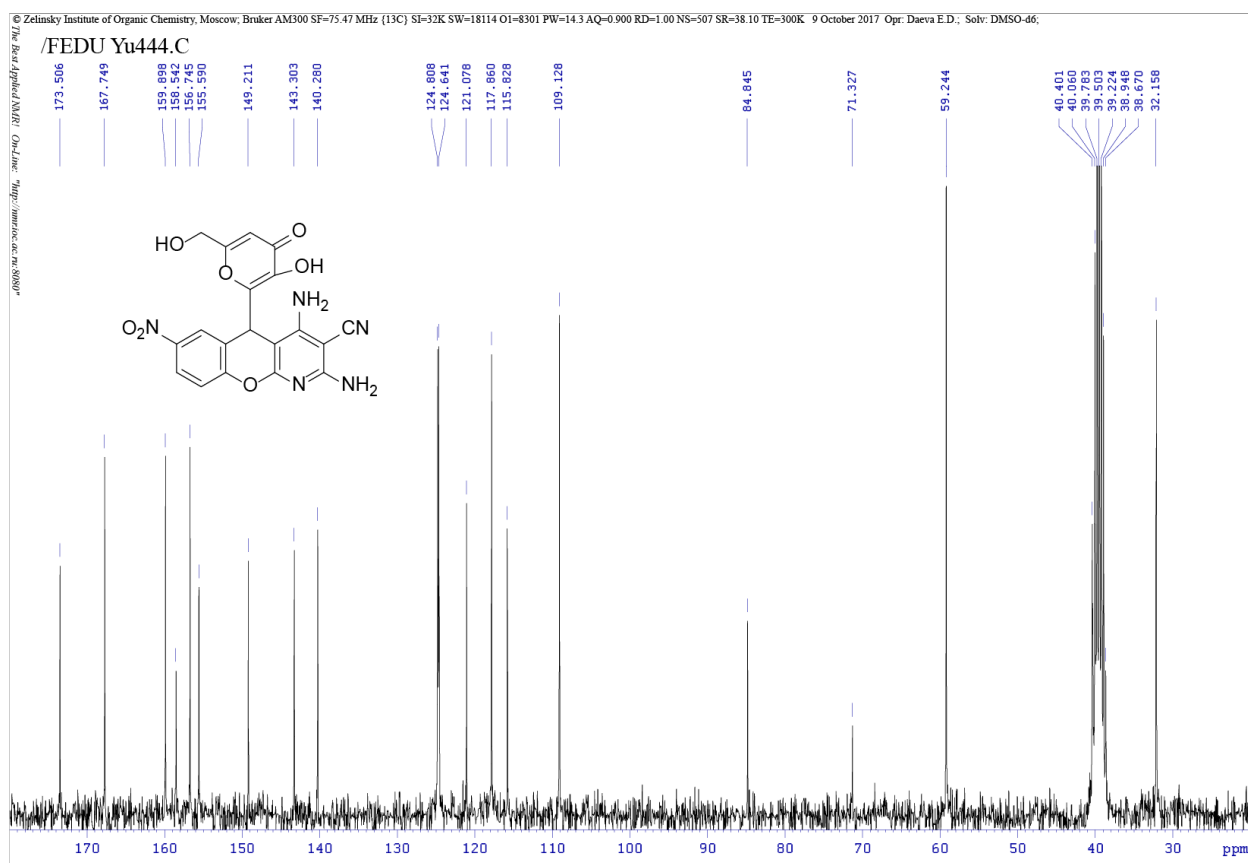
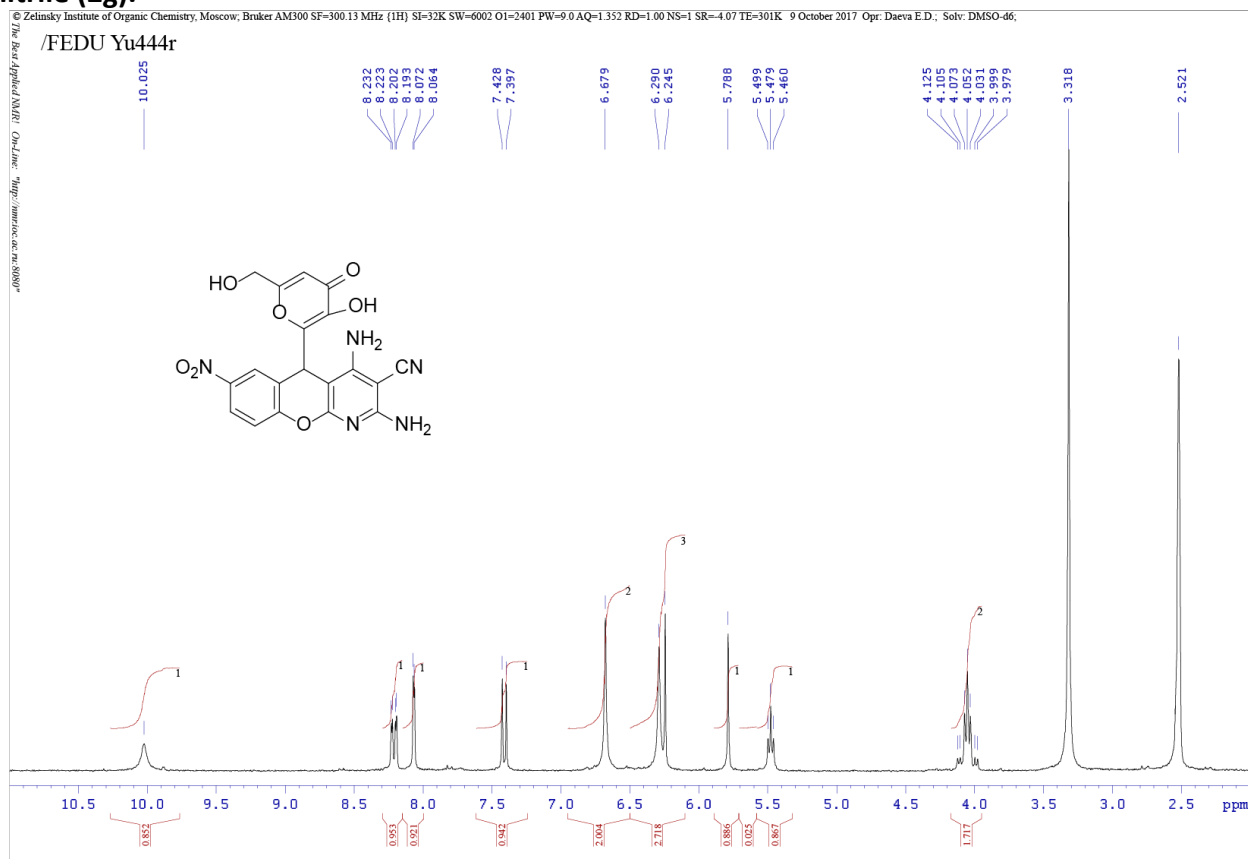
2,4-Diamino-7-chloro-5-(3-hydroxy-6-(hydroxymethyl)-4-oxo-4H-pyran-2-yl)-5H-chromeno[2,3-b]pyridine-3-carbonitrile (2e).



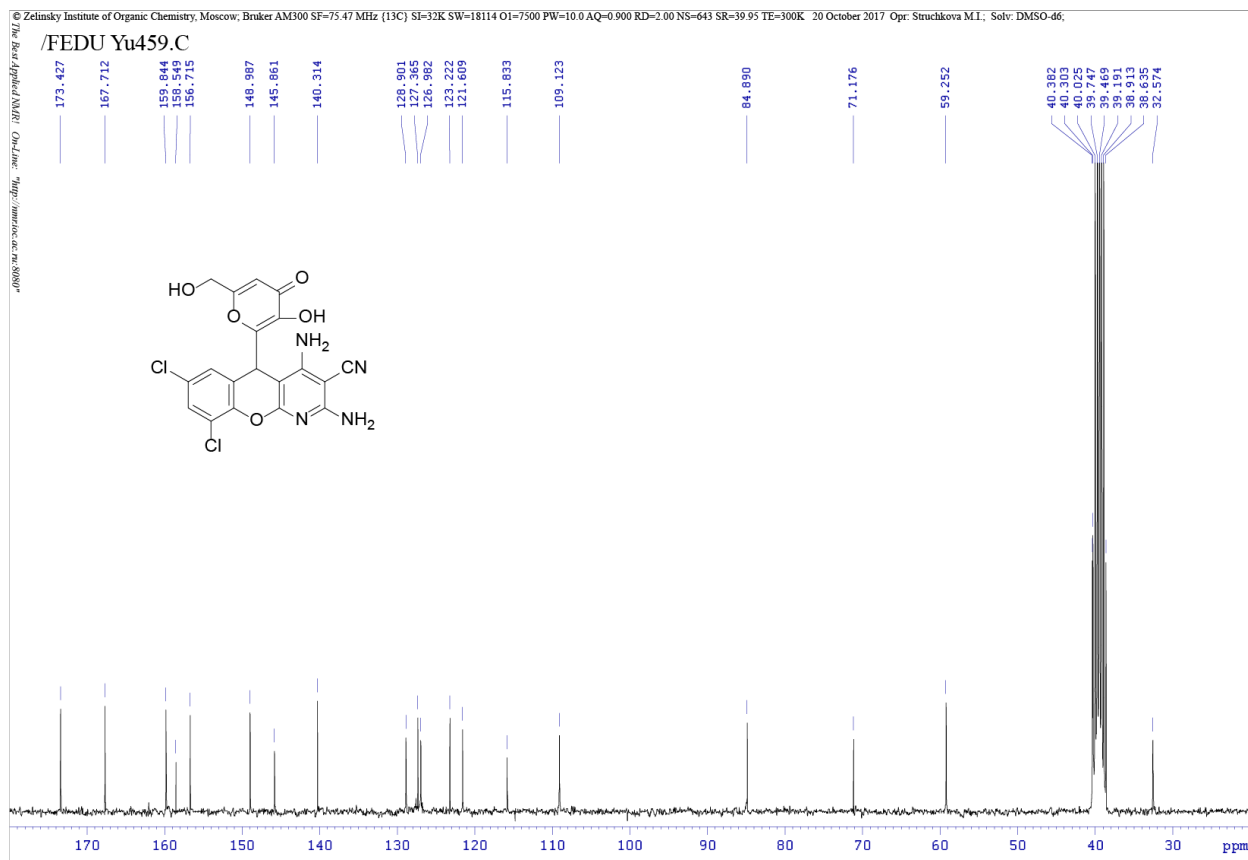
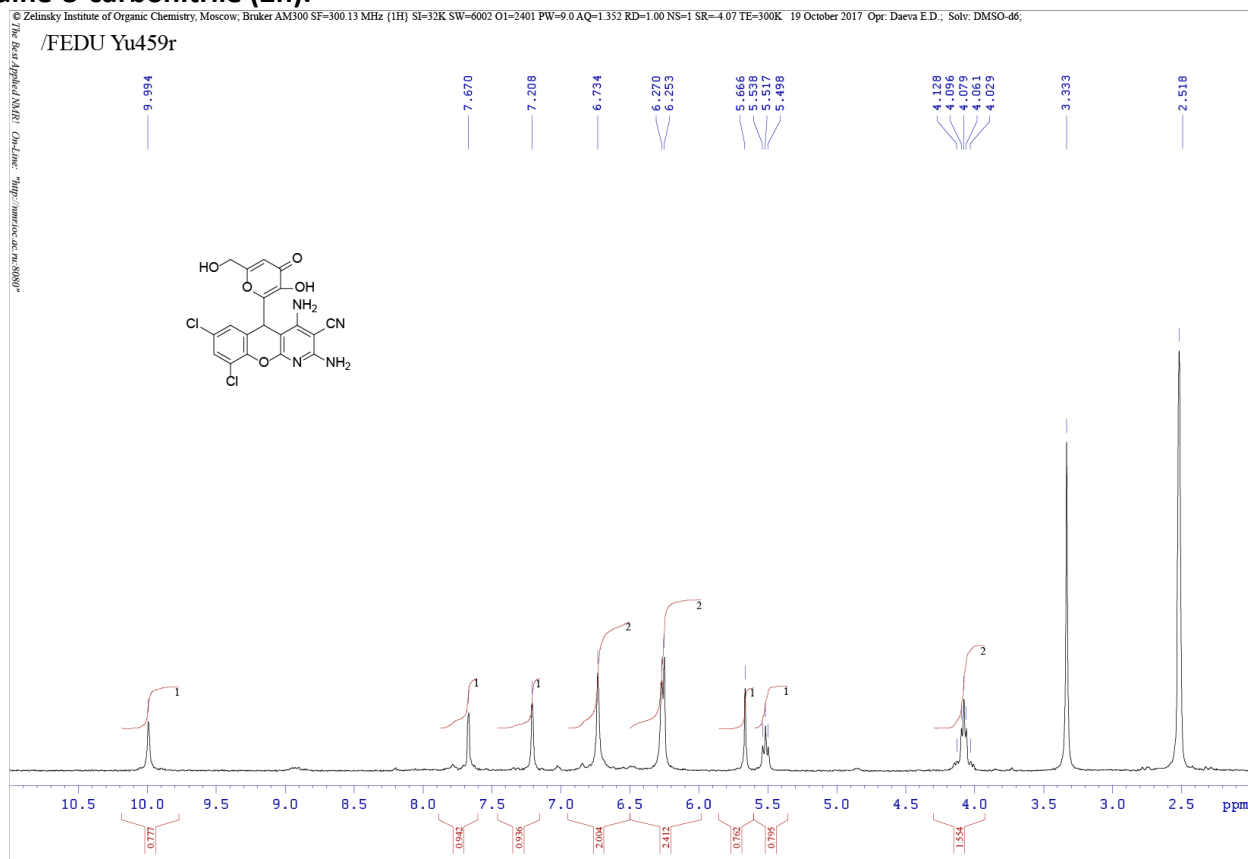
2,4-Diamino-7-bromo-5-(3-hydroxy-6-(hydroxymethyl)-4-oxo-4H-pyran-2-yl)-5H-chromeno[2,3-b]pyridine-3-carbonitrile (2f).

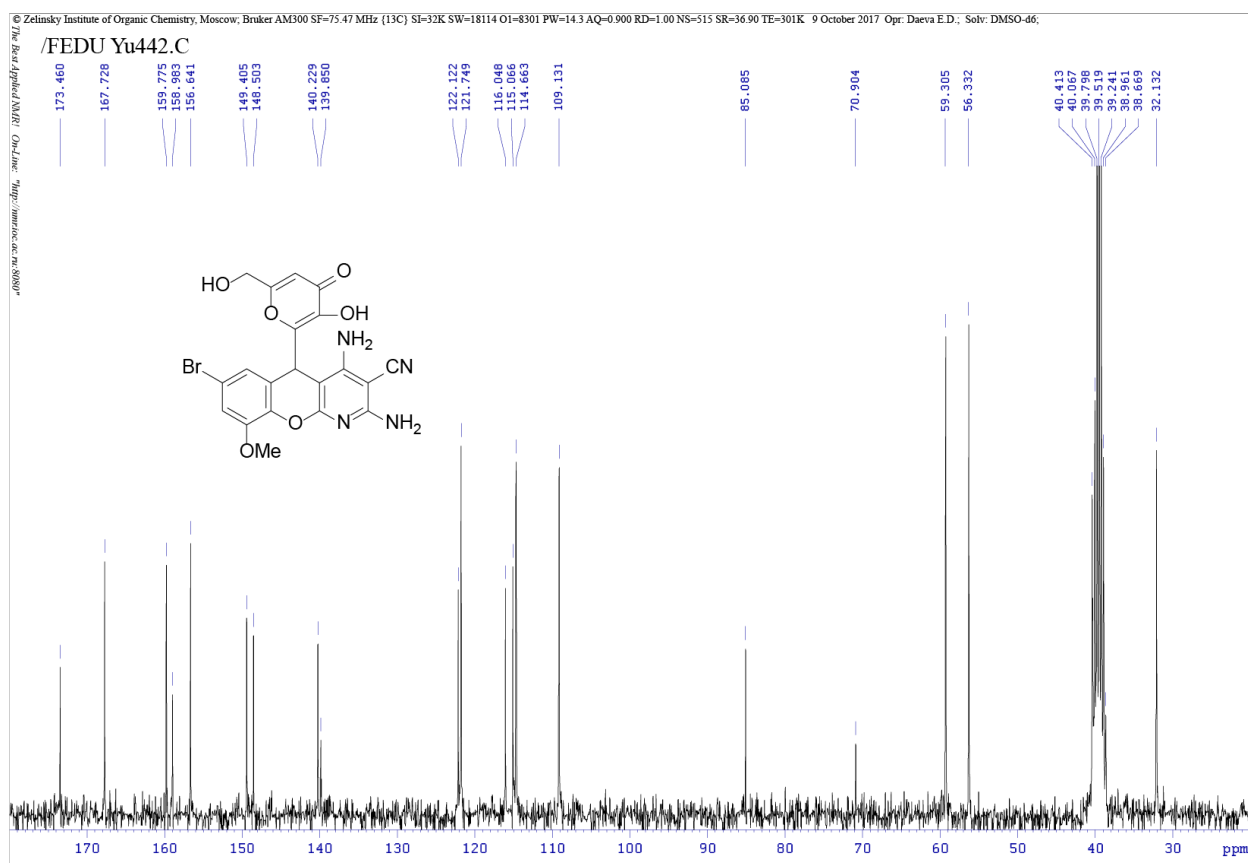
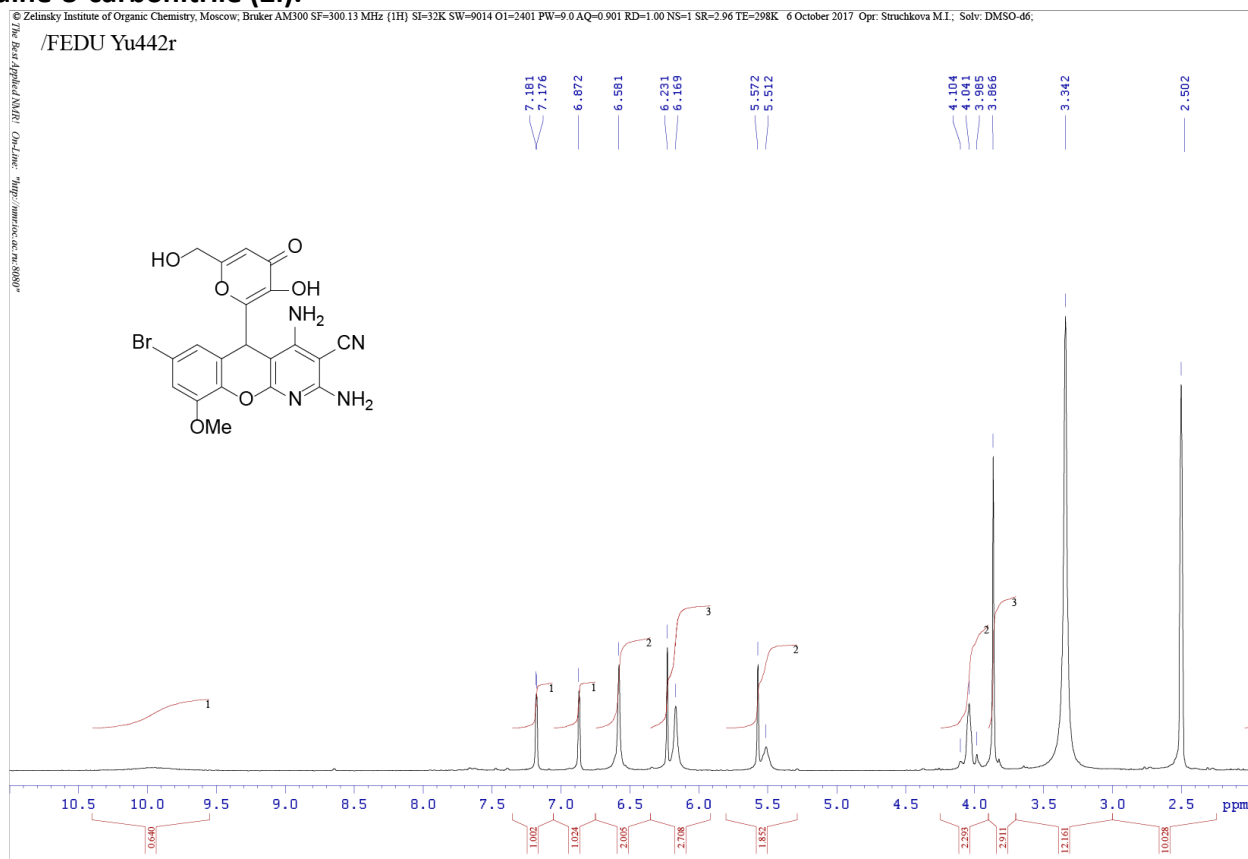


2,4-Diamino-5-(3-hydroxy-6-(hydroxymethyl)-4-oxo-4H-pyran-2-yl)-7-nitro-5H-chromeno-[2,3-b]pyridine-3-carbonitrile (2g).



2,4-Diamino-7,9-dichloro-5-(3-hydroxy-6-(hydroxymethyl)-4-oxo-4H-pyran-2-yl)-5H-chromeno[2,3-b]pyridine-3-carbonitrile (2h).

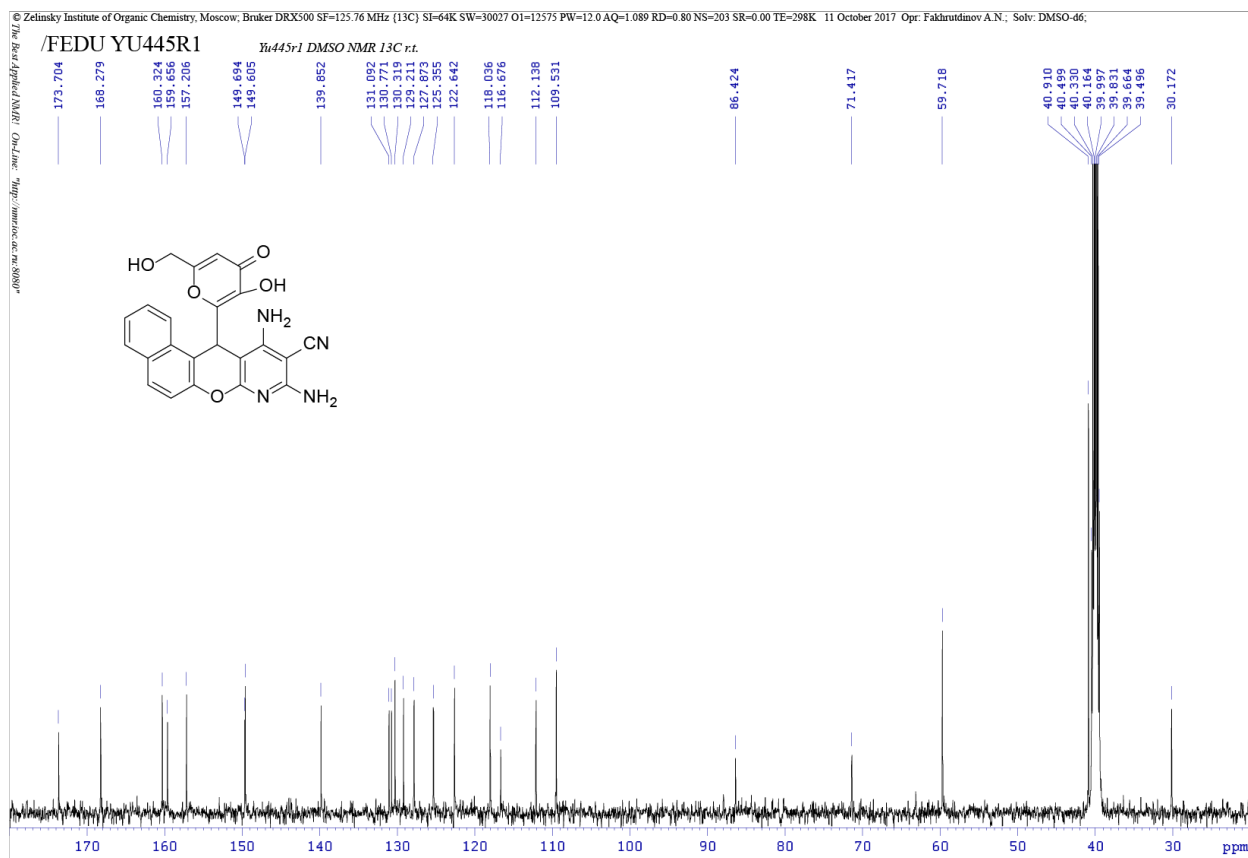
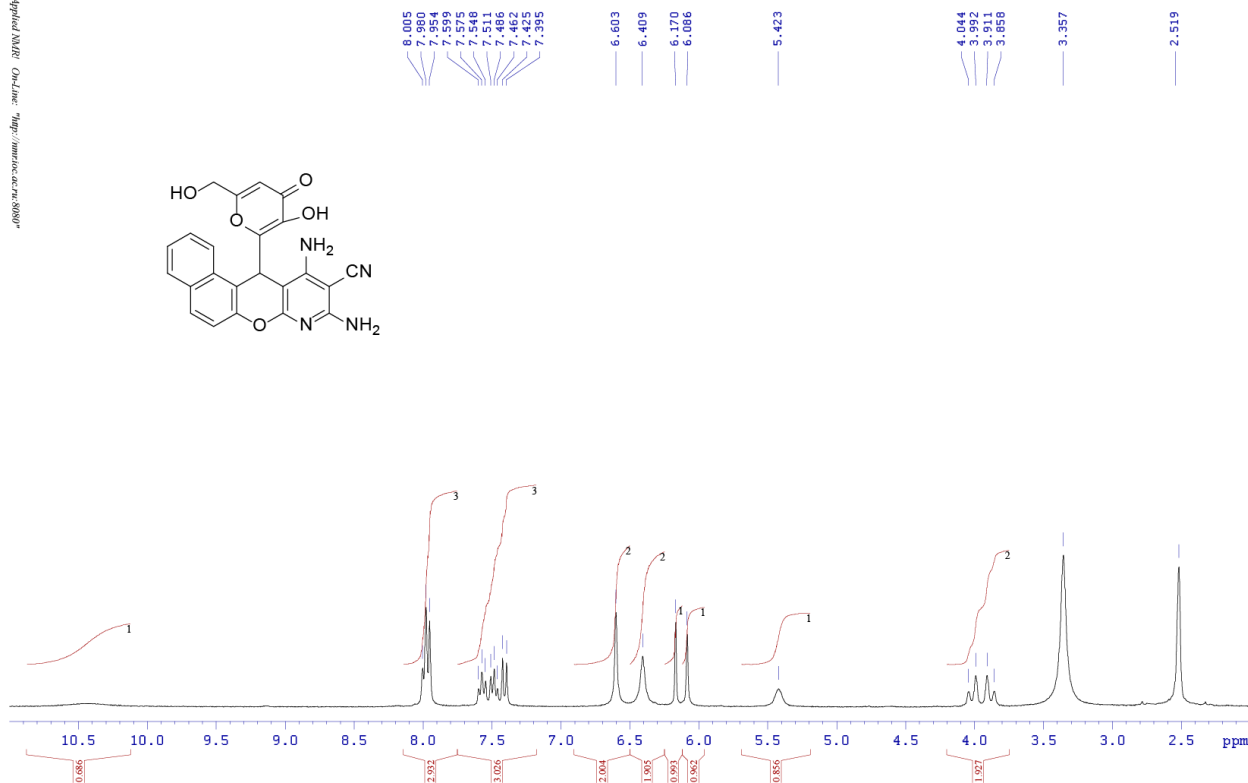


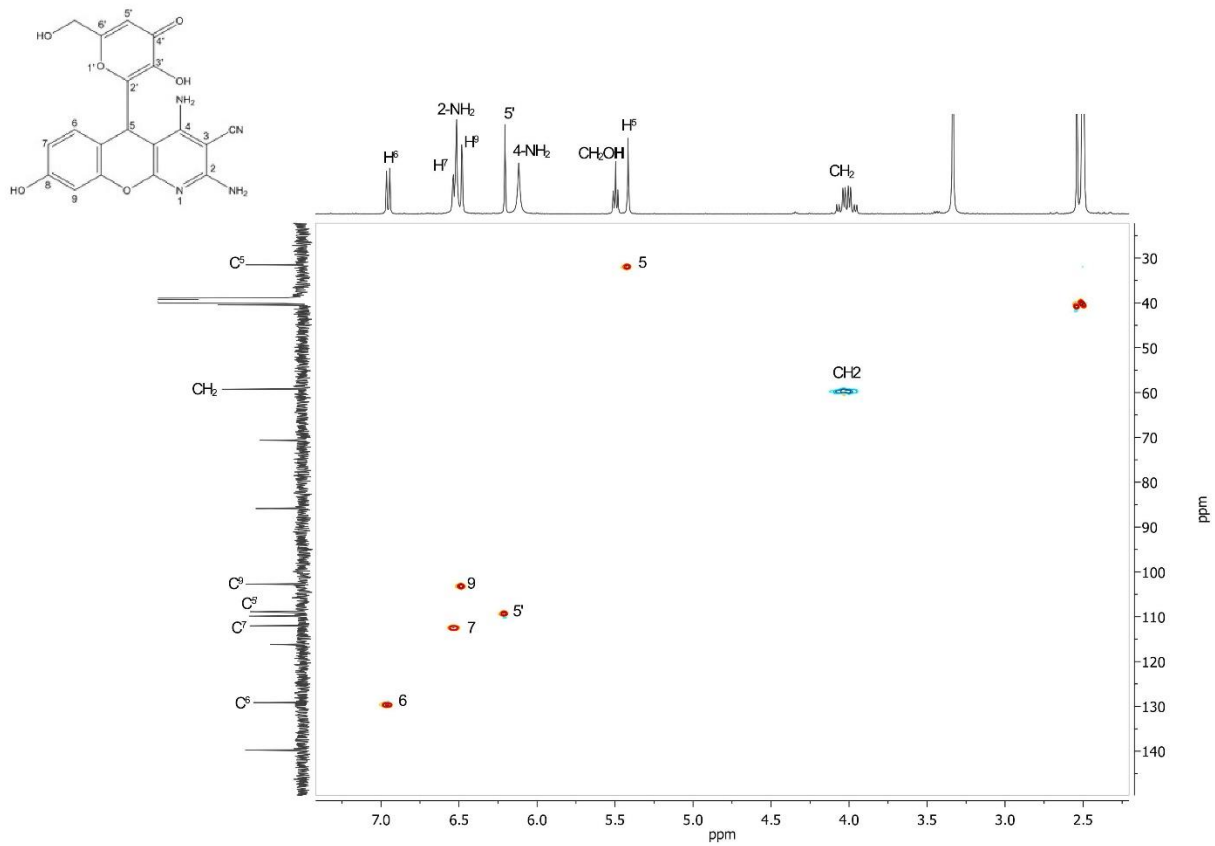
2,4-Diamino-7-bromo-5-(3-hydroxy-6-(hydroxymethyl)-4-oxo-4H-pyran-2-yl)-9-methoxy-5H-chromeno[2,3-b]pyridine-3-carbonitrile (2i).

9,11-Diamino-12-(3-hydroxy-6-(hydroxymethyl)-4-oxo-4H-pyran-2-yl)-12H-benzo[5,6]chromeno[2,3-b]pyridine-10-carbonitrile (2j).

© Zelinsky Institute of Organic Chemistry, Moscow, Bruker AM300 SF=300.13 MHz (1H) SI=32K SW=6002 OI=2401 PW=9.0 AQ=1.352 RD=1.00 NS=1 SR=4.07 TE=301K 10 October 2017 Opr: Daeva E.D.; Solv: DMSO-d6;

/FEDU Yu445r



^1H - ^{13}C HSQC for 2d

^1H - ^{13}C HMBC for 2d