

Supplementary information

Co-Culture of the Fungus *Fusarium tricinctum* with *Streptomyces lividans* Induces Production of Cryptic Naphthoquinone Dimers

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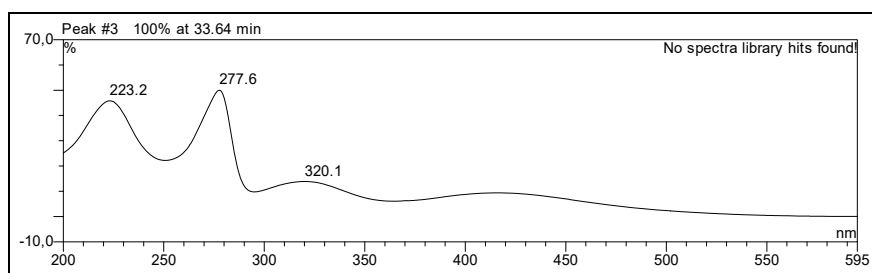
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^f*Institute of Complex Systems - Structural Biochemistry, Forschungszentrum Jülich GmbH, Wilhelm-Johnen-Straße, 52428 Jülich, Germany*

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S1. UV spectrum of compound **1**.

Mass Spectrum SmartFormula Report

Analysis Info

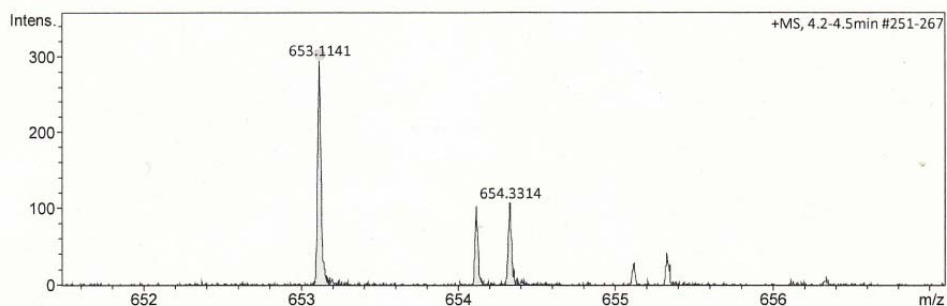
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Comment

Acquisition Date 6/21/2016 3:26:22 PM

Operator Peter Tommes
Instrument maXis 288882.20213

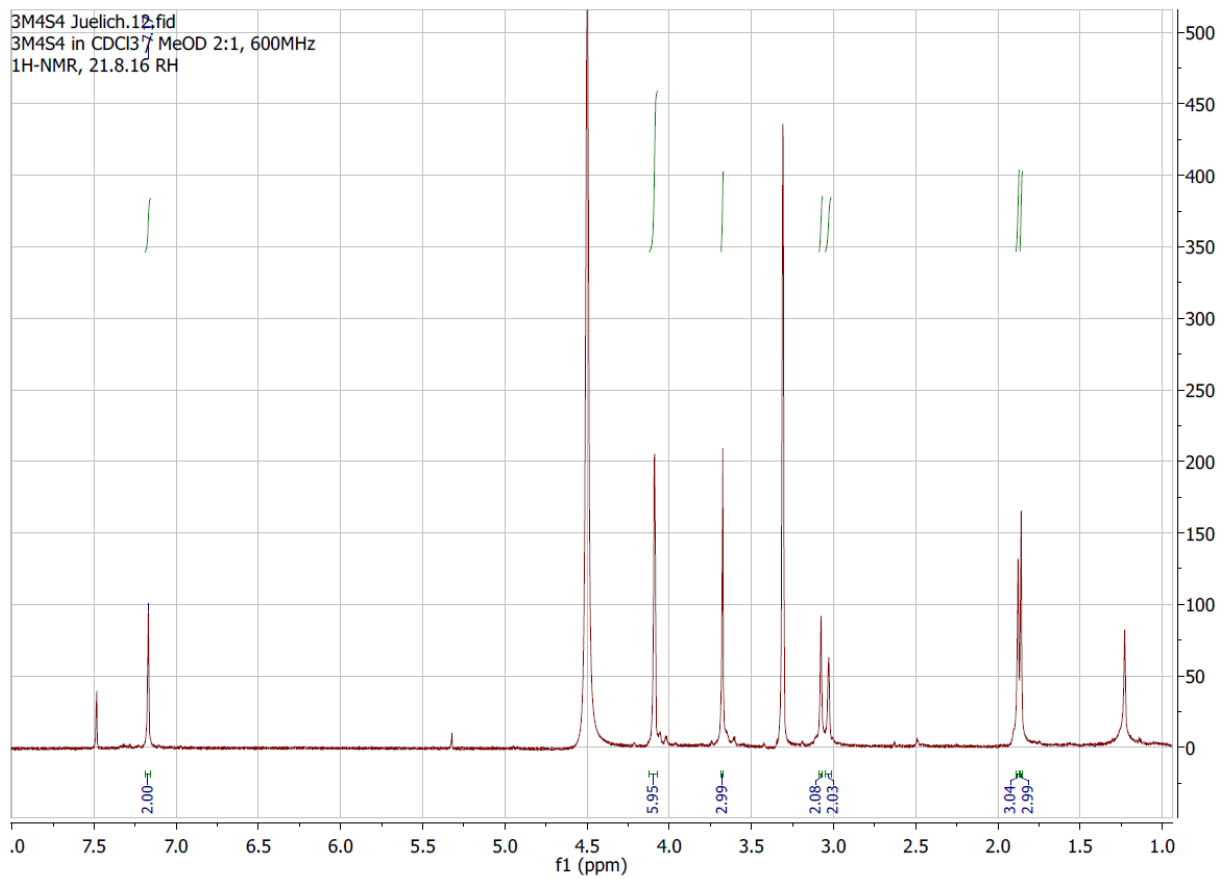
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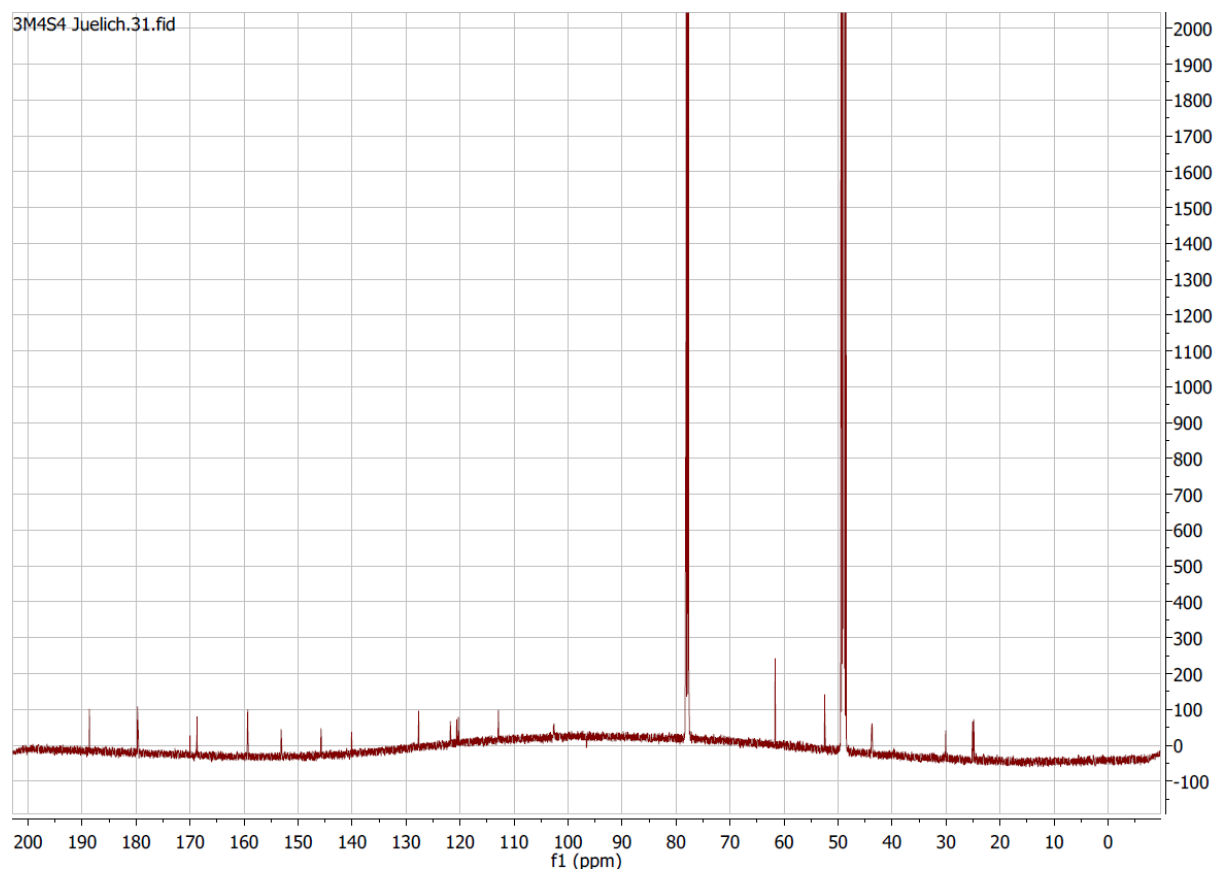


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653.1141	1	C29H13N14O6	653.1137	-0.6	40.4	1	100.00	30.5	even	ok
	2	C30H9N18O2	653.1150	1.4	44.4	2	68.59	35.5	even	ok
	3	C31H25O16	653.1137	-0.6	46.2	3	85.29	19.5	even	ok

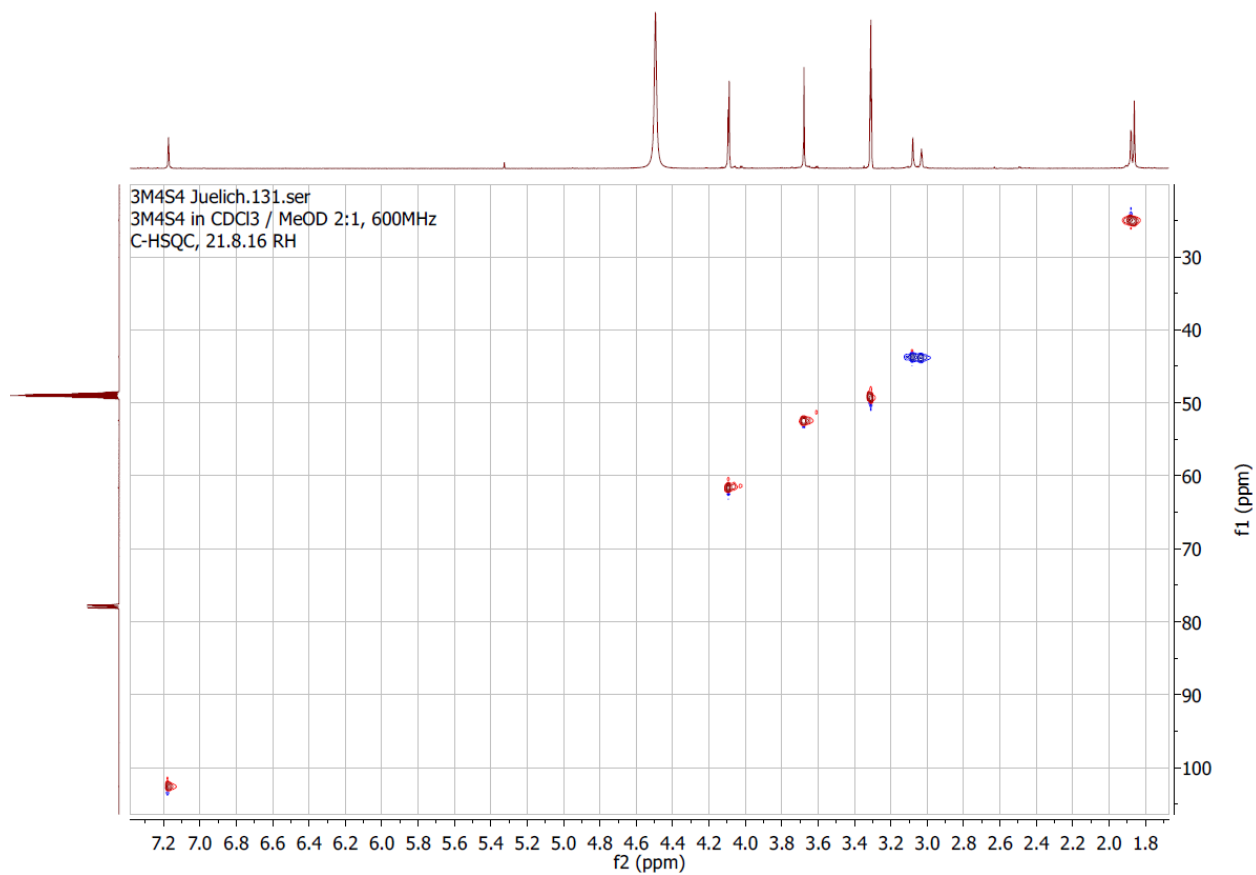
S2. HRESIMS of compound 1.



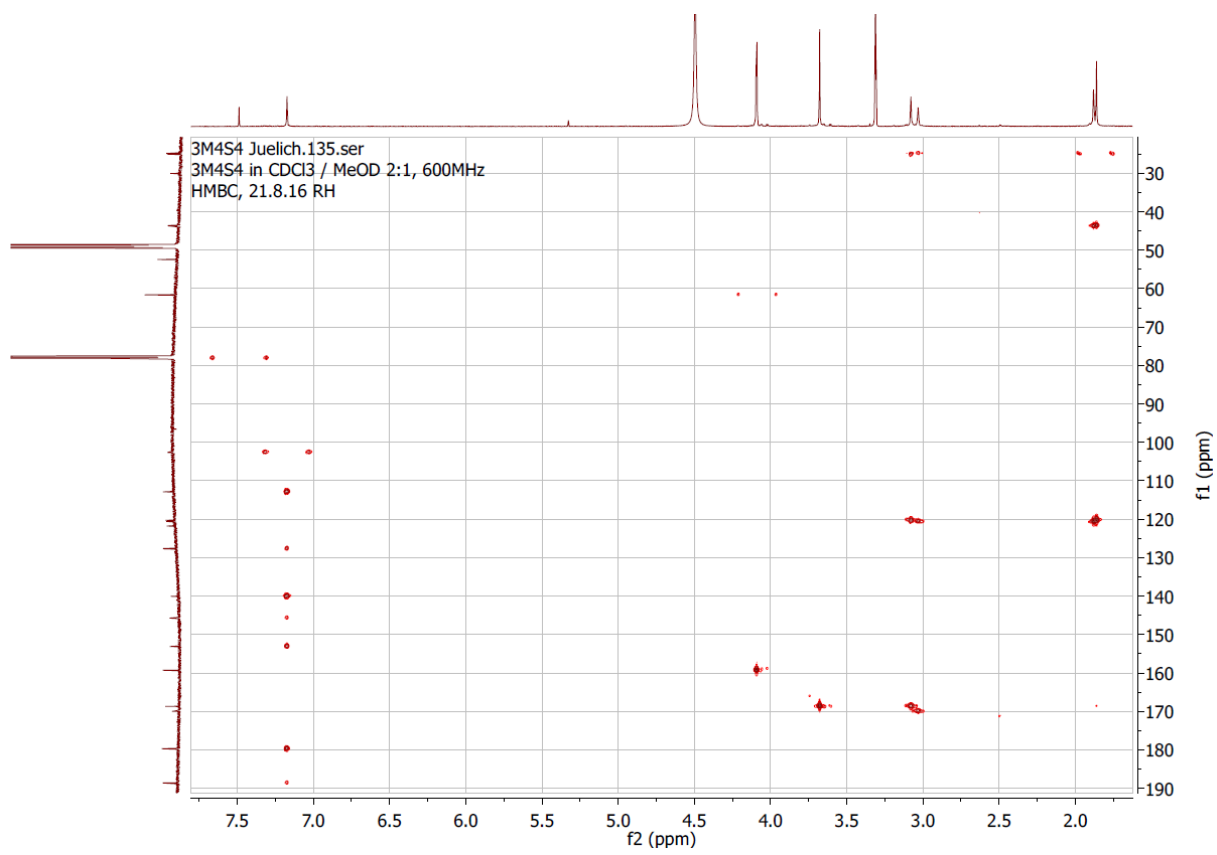
S3. ¹H NMR (600 MHz, CDCl₃-CD₃OD 2:1) spectrum of compound **1**.



S4. ^{13}C NMR (150 MHz, $\text{CDCl}_3\text{-CD}_3\text{OD}$ 2:1) spectrum of compound **1**.

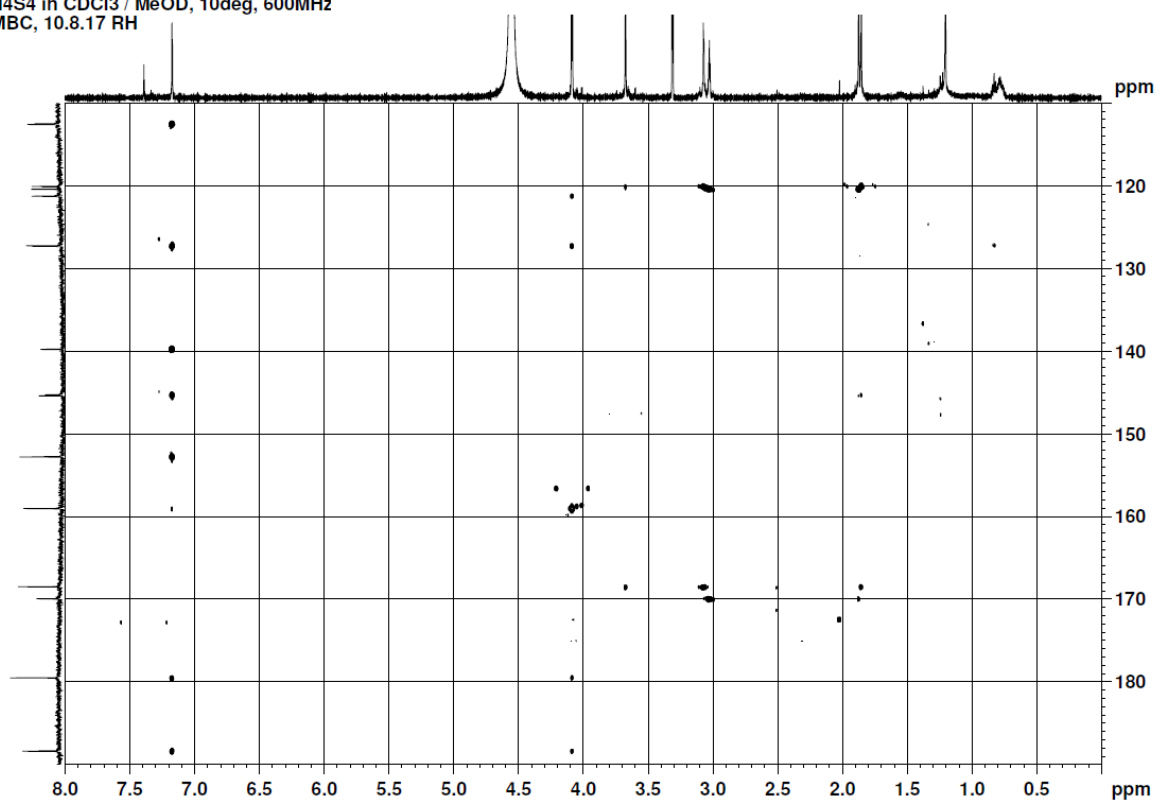


S5. HSQC (600 and 150MHz, CDCl_3 - CD_3OD 2:1) spectrum of compound **1**.

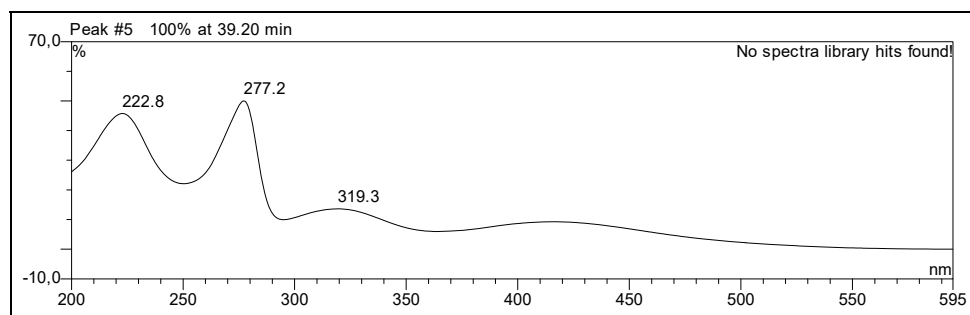


S6. HMBC (600 and 150 MHz, CDCl₃-CD₃OD 2:1) spectrum of compound **1**.

3M4S4 in CDCl₃ / MeOD, 10deg, 600MHz
HMBC, 10.8.17 RH



S7. Long-range HMBC (600 and 150 MHz, CDCl₃-CD₃OD 2:1) spectrum of compound **1**.



S8. UV spectrum of compound **2**.

Mass Spectrum SmartFormula Report

Analysis Info

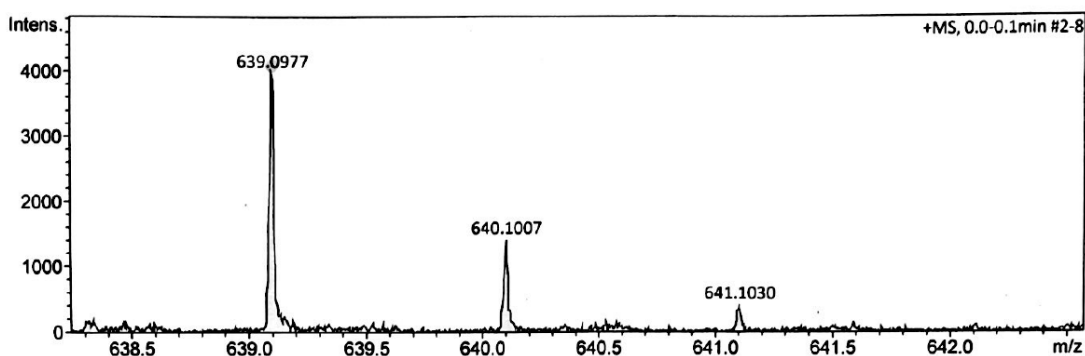
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Comment

Acquisition Date 12/8/2016 2:36:47 PM

Operator Peter Tommes
Instrument maXis 288882.20213

Acquisition Parameter

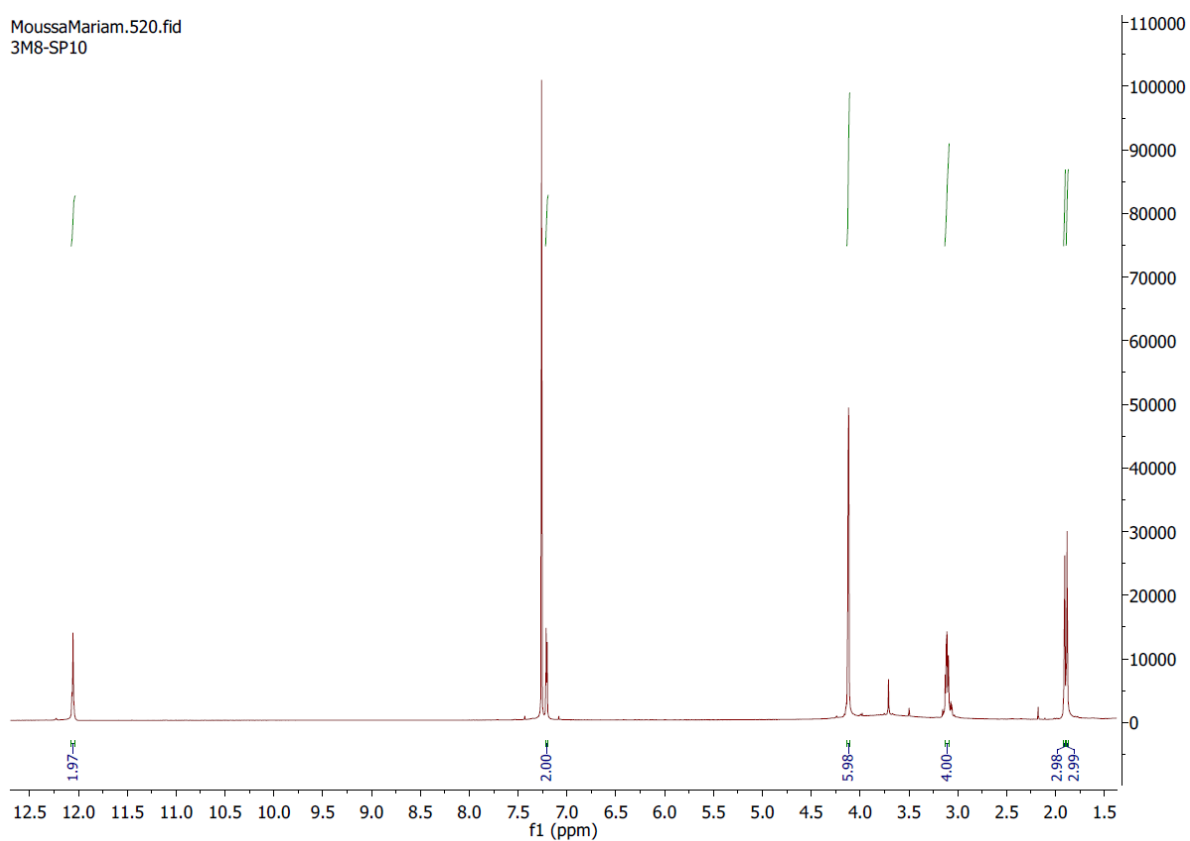
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Scan End	1500 m/z	Set Collision Cell RF	600.0 Vpp	Set Divert Valve	Source



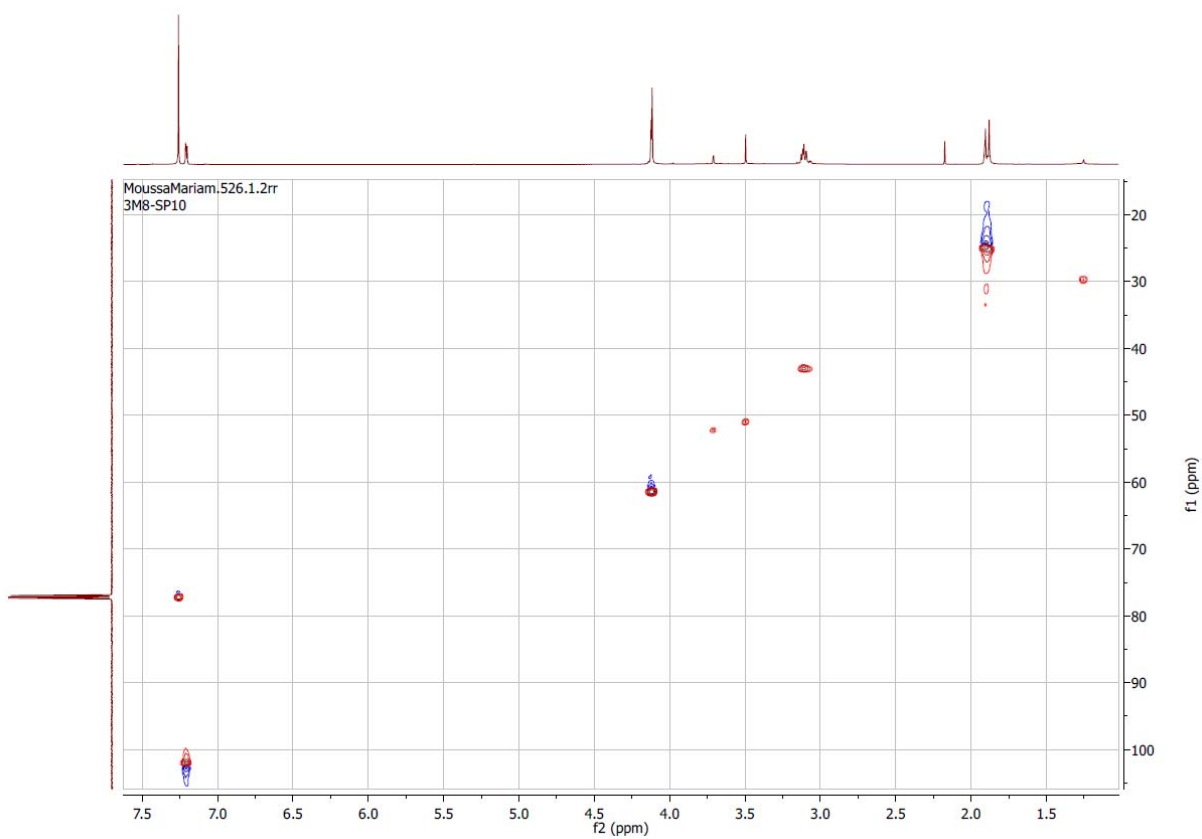
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	2	C30H23O16	639.0981	0.6	17.3	2	98.34	19.5	even	ok

S9. HRESIMS of compound 2.

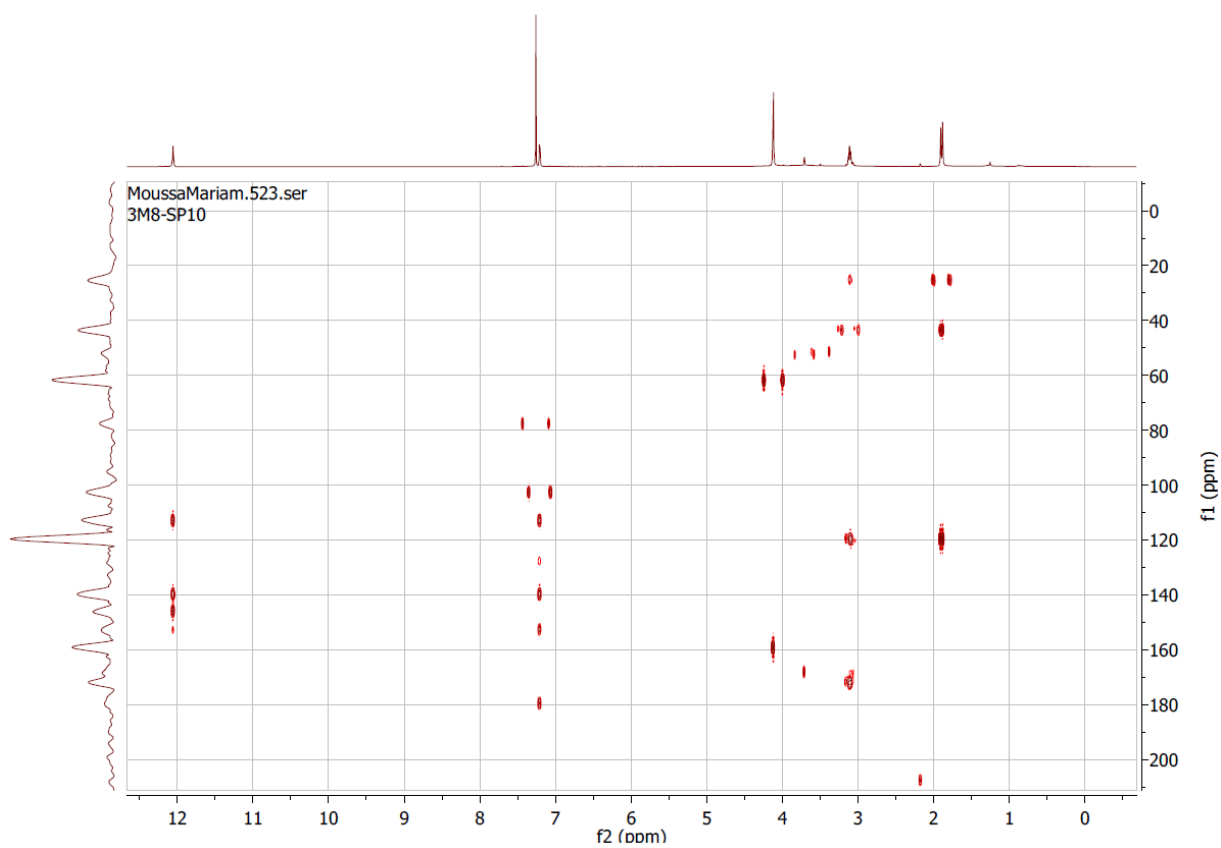
MoussaMariam.520.fid
3M8-SP10



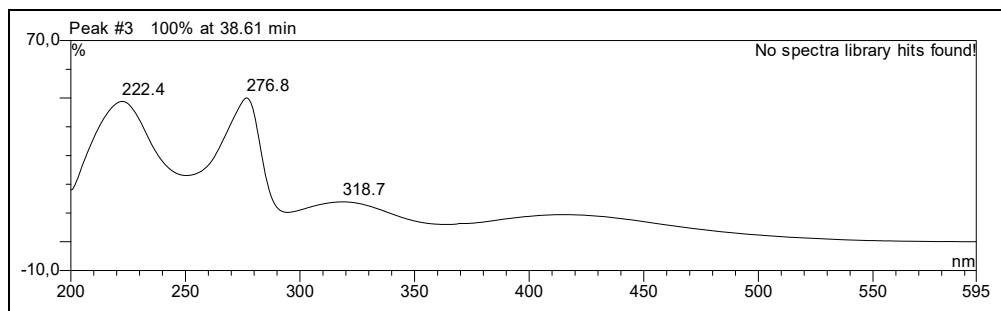
S10. ¹H NMR (600 MHz, CDCl₃) spectrum of compound **2**.



S11. HSQC (600 and 150 MHz, CDCl_3) spectrum of compound **2**.



S12. HMBC (600 and 150 MHz, CDCl_3) spectrum of compound **2**.



S13. UV spectrum of compound **3**.

Mass Spectrum SmartFormula Report

Analysis Info

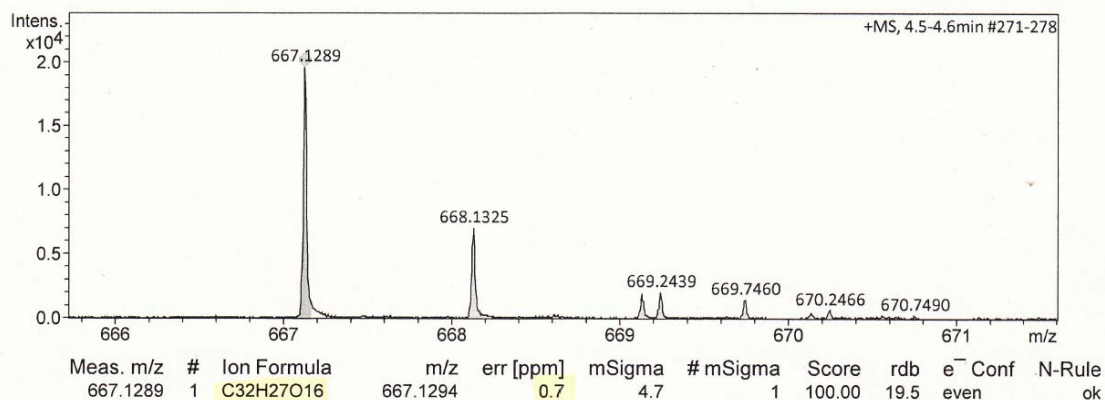
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 Comment 1 ug/ml

Acquisition Date 9/13/2016 3:14:11 PM

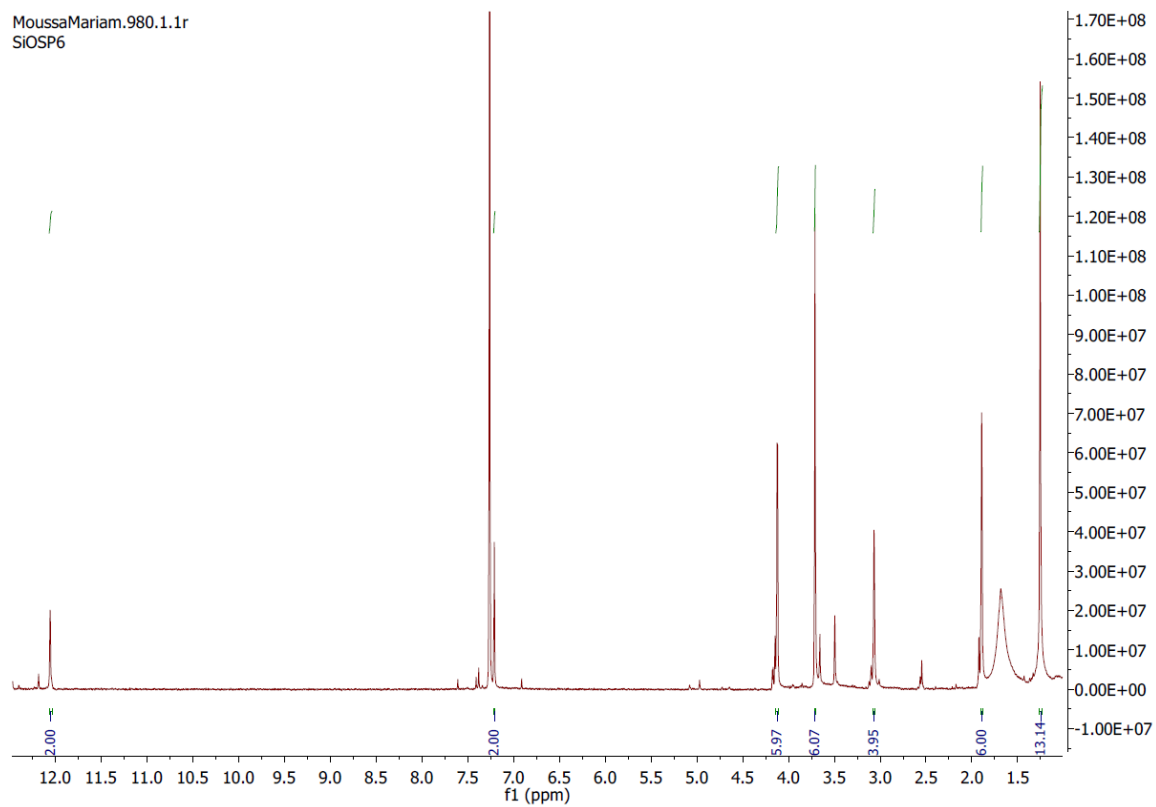
Operator Peter Tommes
 Instrument maXis 288882.20213

Acquisition Parameter

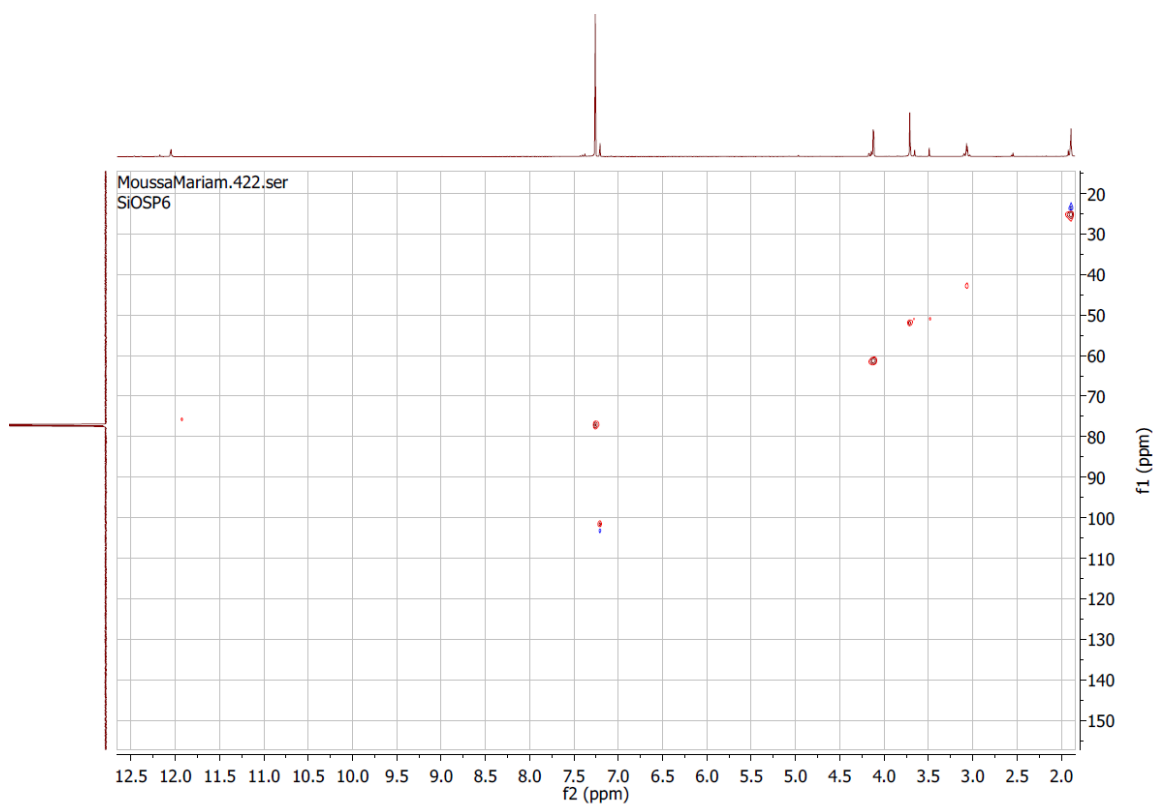
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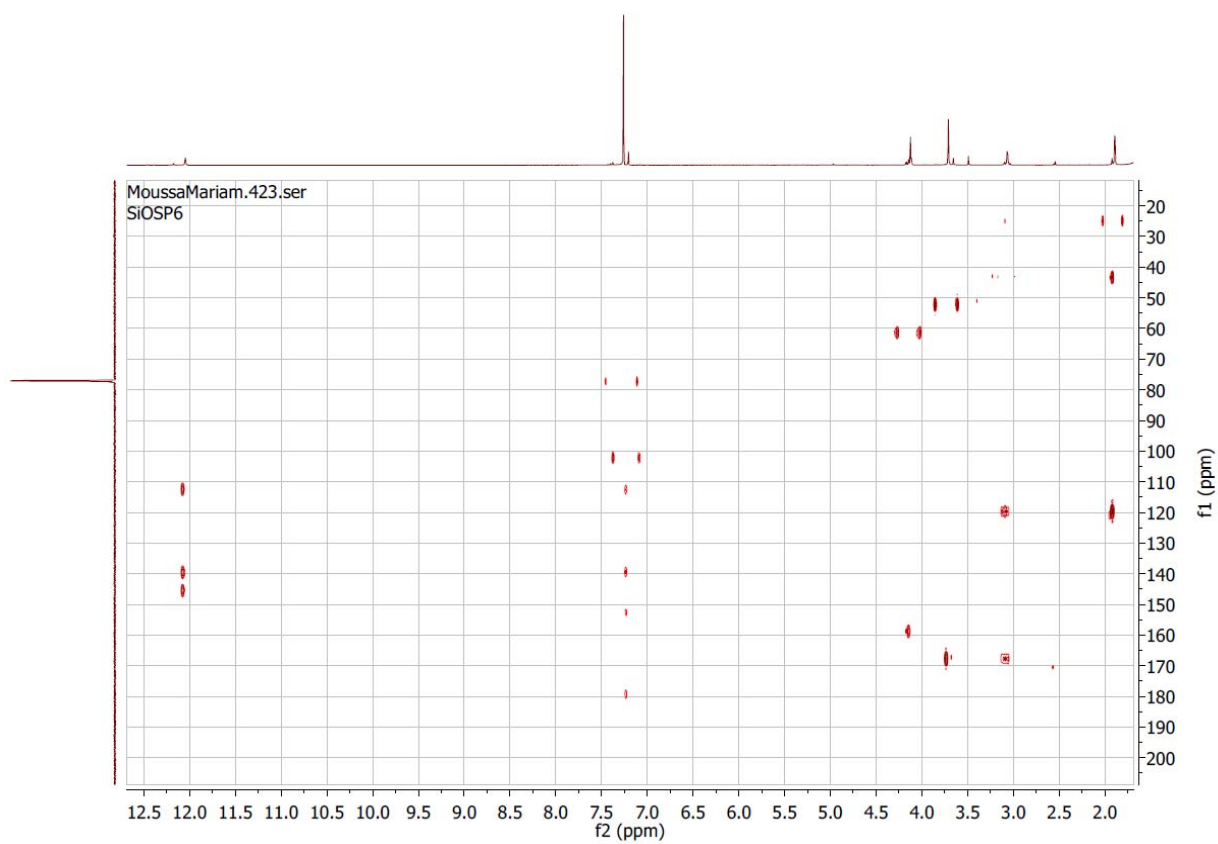
S14. HRESIMS of compound 3.



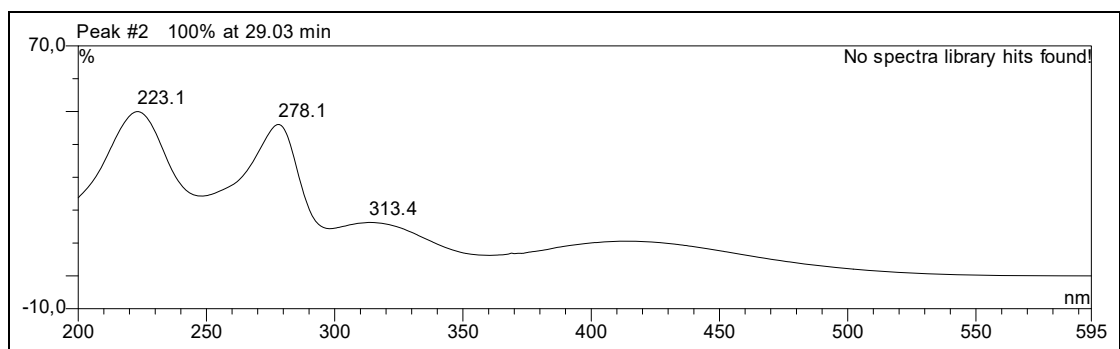
S15. ^1H NMR (600 MHz, CDCl_3) spectrum of compound **3**.



S16. HSQC (600 and 150 MHz, CDCl_3) spectrum of compound **3**.



S17. HMBC (600 and 150 MHz, CDCl_3) spectrum of compound **3**.



S18. UV spectrum of compound 4.

Mass Spectrum SmartFormula Report

Analysis Info

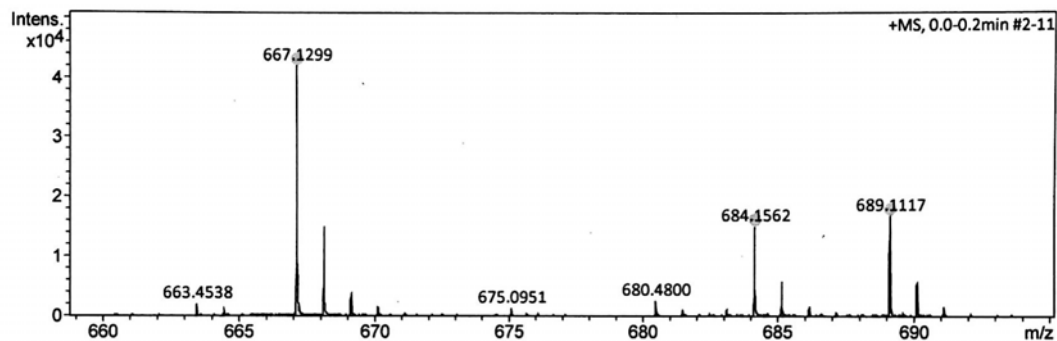
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 Comment

Acquisition Date 12/8/2017 2:58:35 PM

Operator Peter Tommes
 Instrument maXis 288882.20213

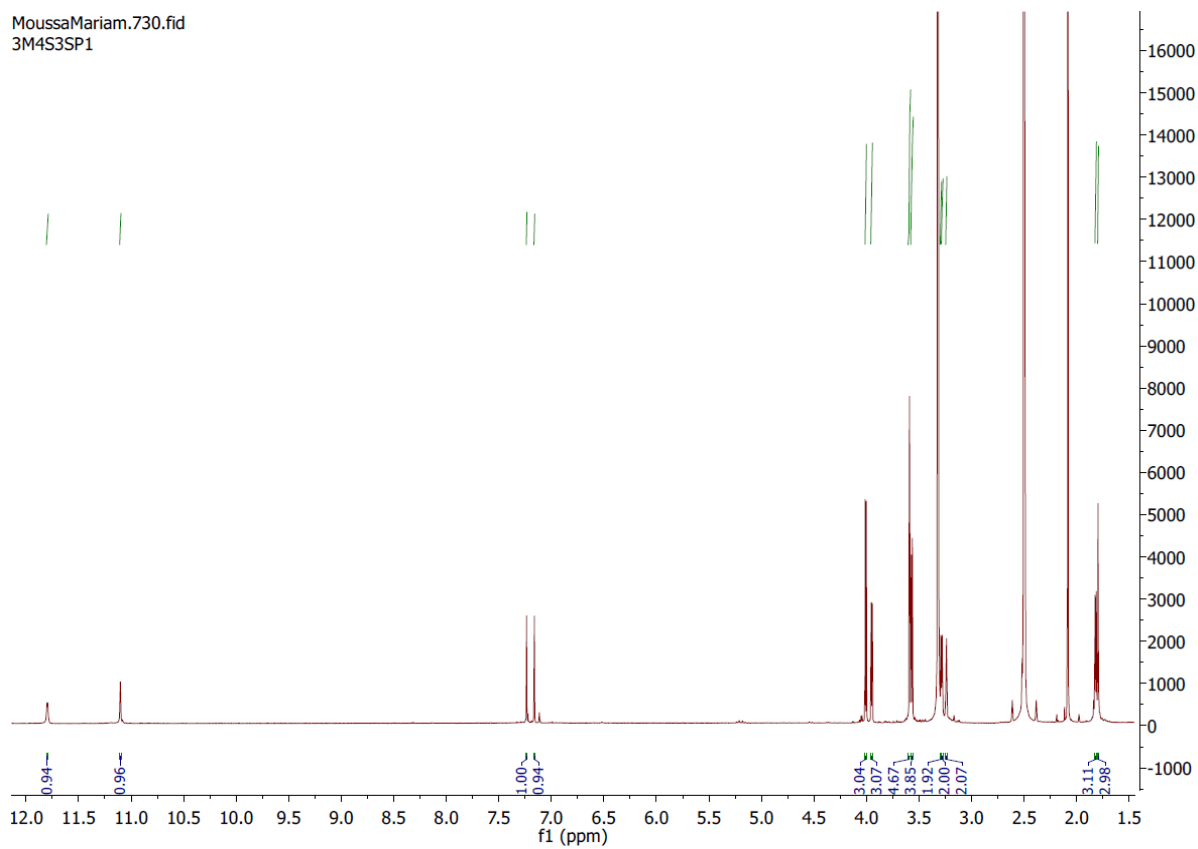
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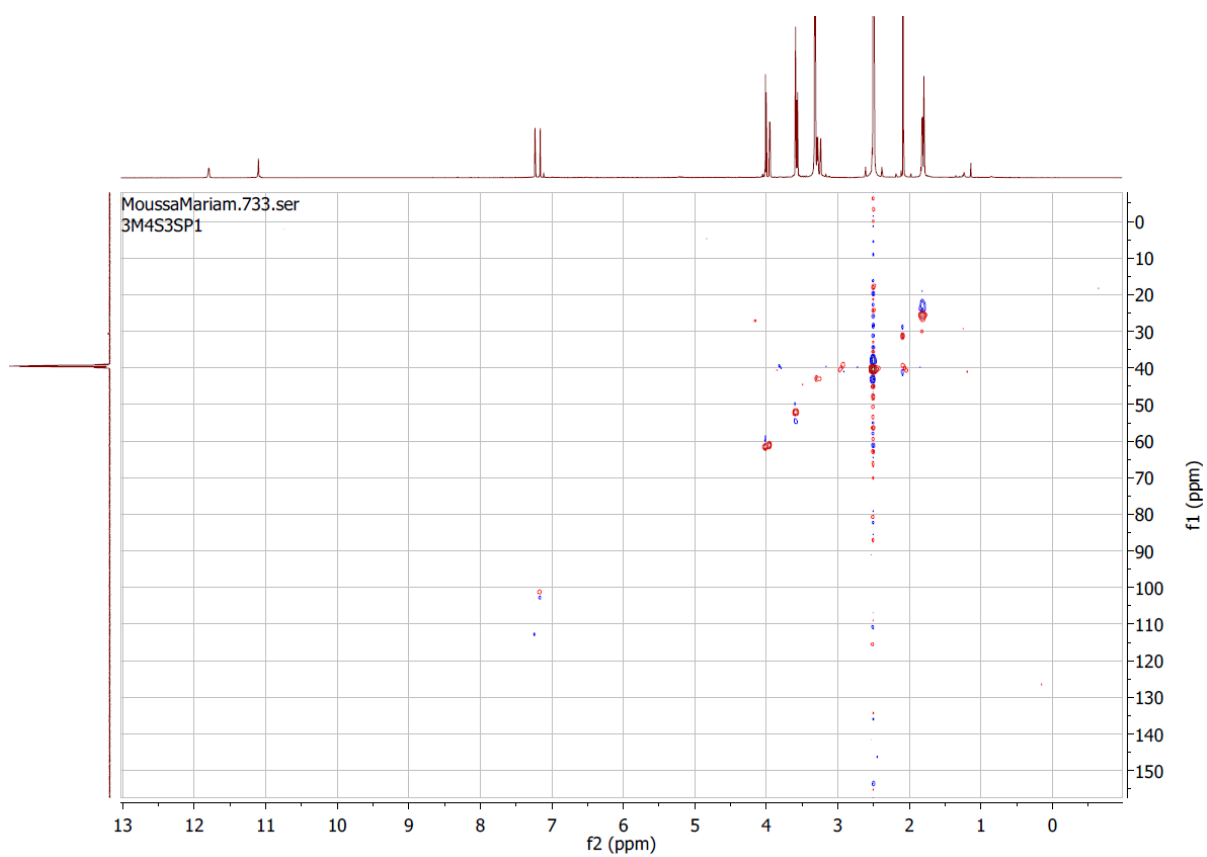


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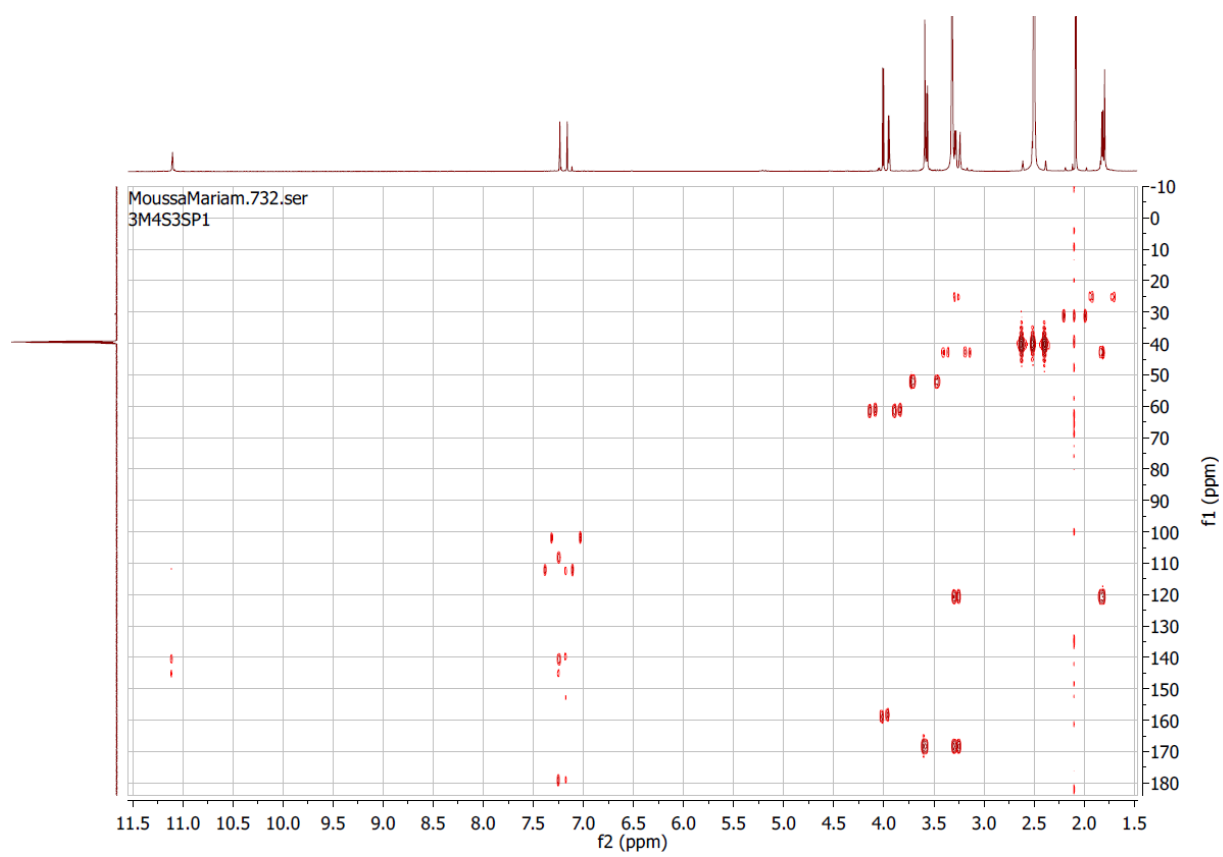
S19. HRESIMS of compound 4.



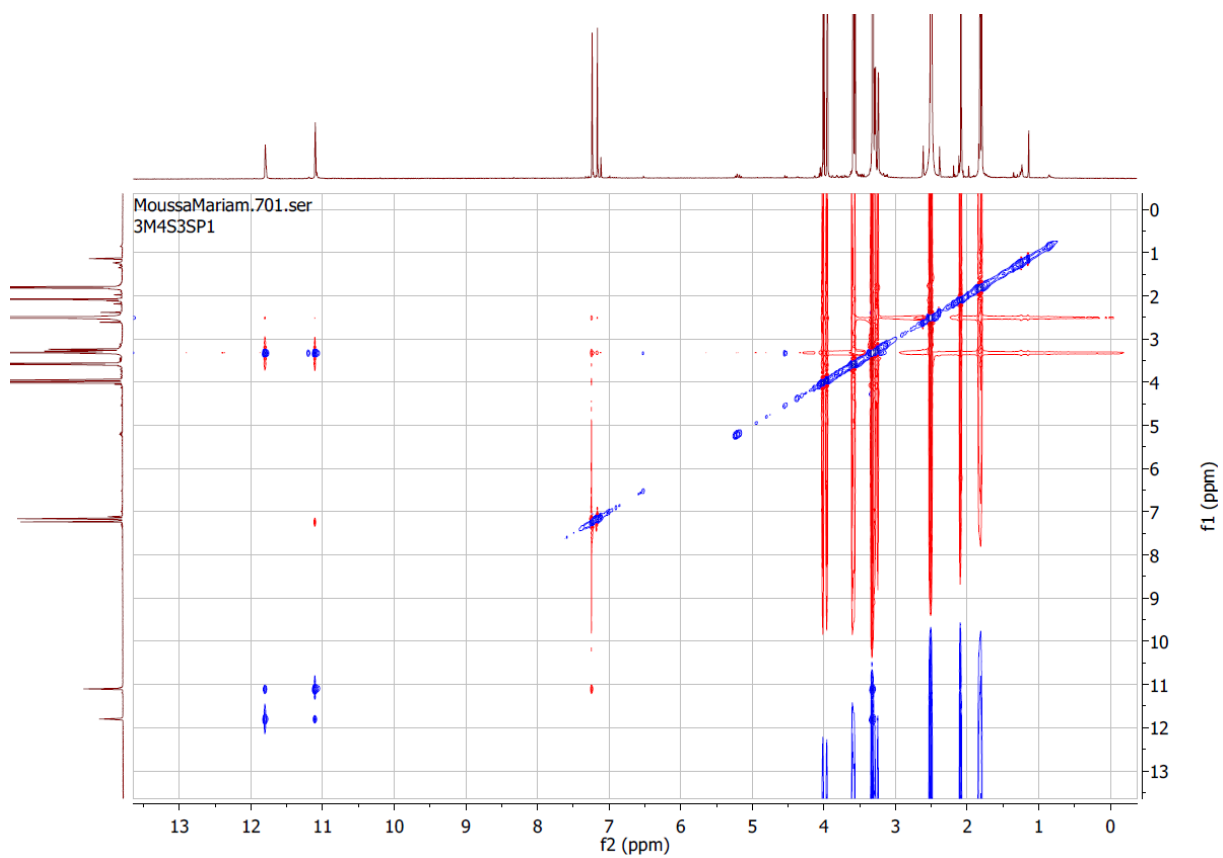
S20. ^1H NMR (600 MHz, $\text{DMSO}-d_6$) spectrum of compound **4**.



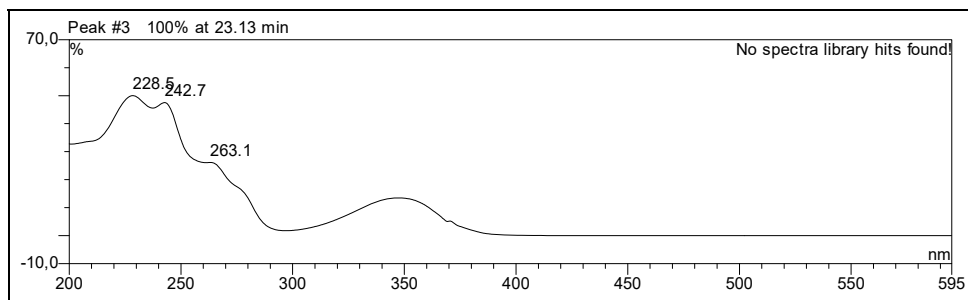
S21. HSQC (600 and 150 MHz, DMSO- d_6) spectrum of compound **4**.



S22. HMBC (600 and 150 MHz, DMSO- d_6) spectrum of compound 4.



S23. ROESY (600 and 150 MHz, DMSO- d_6) spectrum of compound **4**.



S24. UV spectrum of compound **5**.

Mass Spectrum SmartFormula Report

Analysis Info

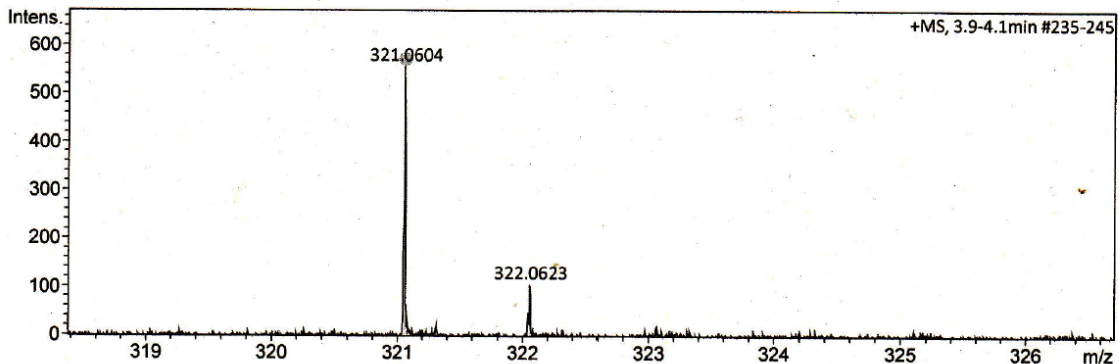
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Comment

Acquisition Date 4/28/2016 1:15:53 PM

Operator Peter Tommes
Instrument maXis 288882.20213

Acquisition Parameter

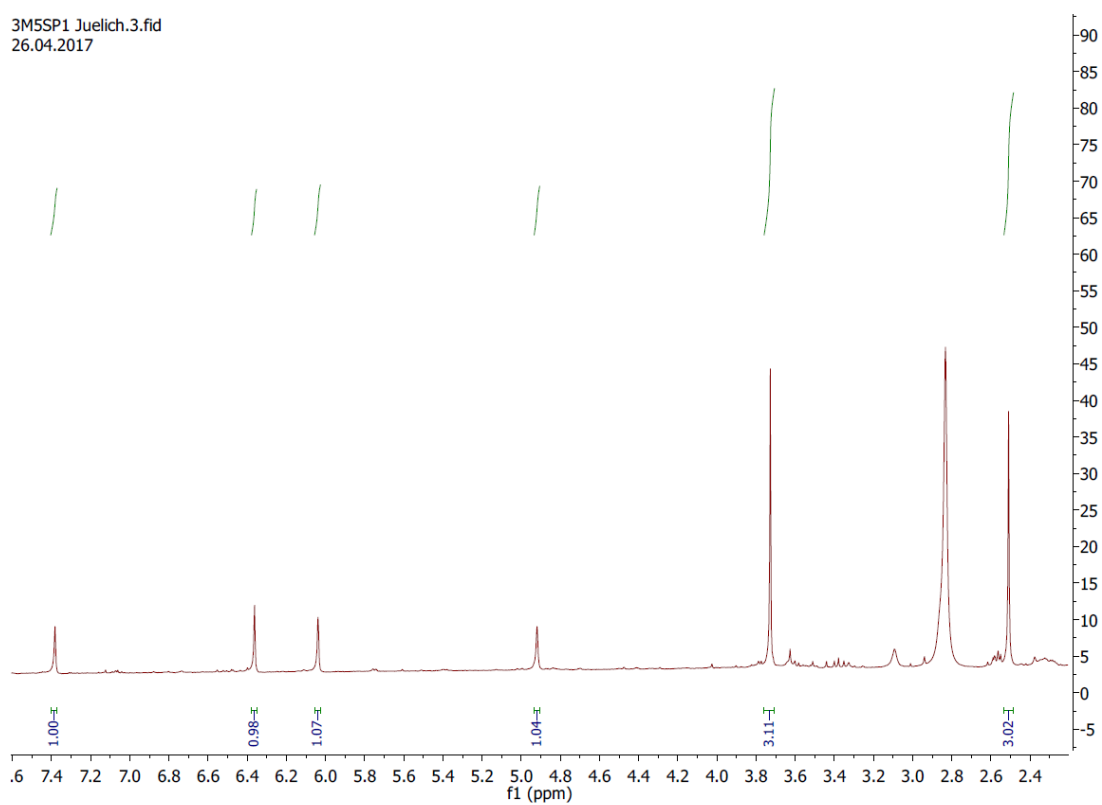
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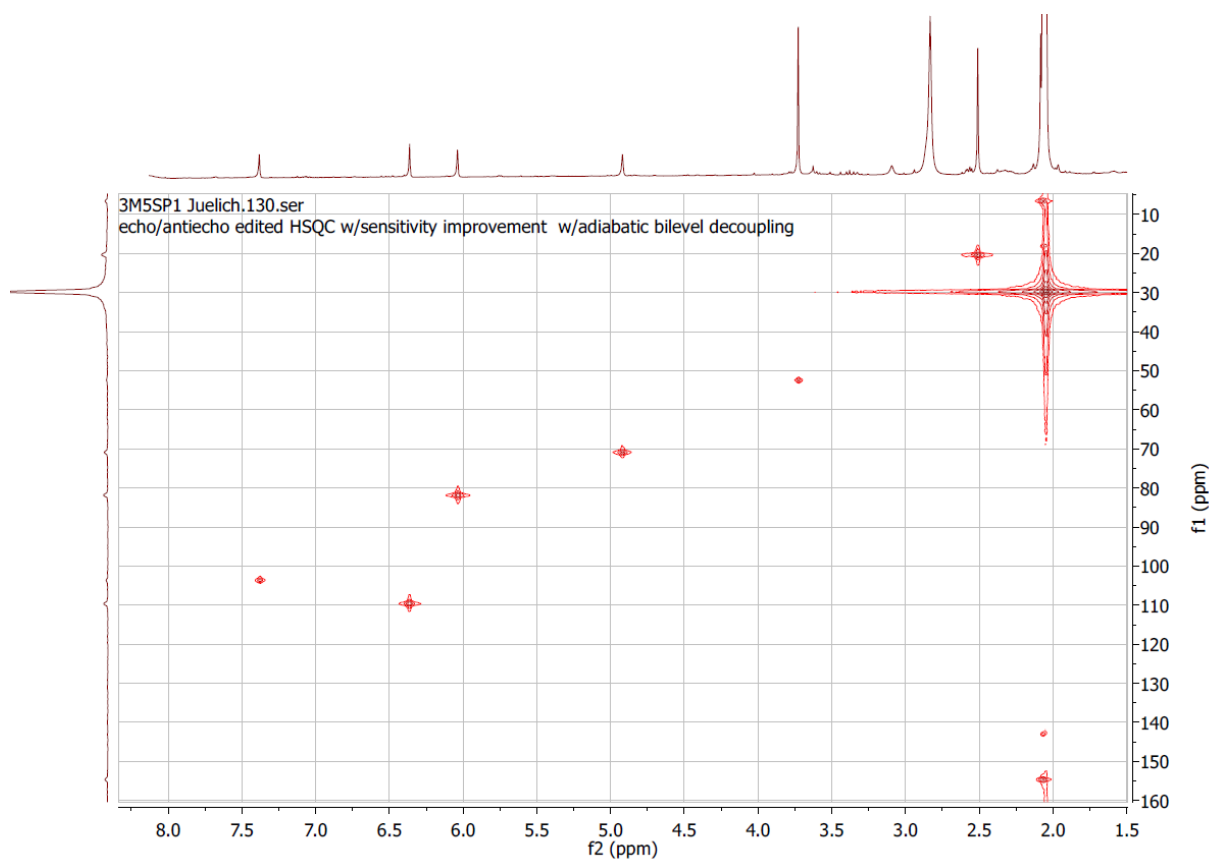
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S25. HRESIMS of compound 5.

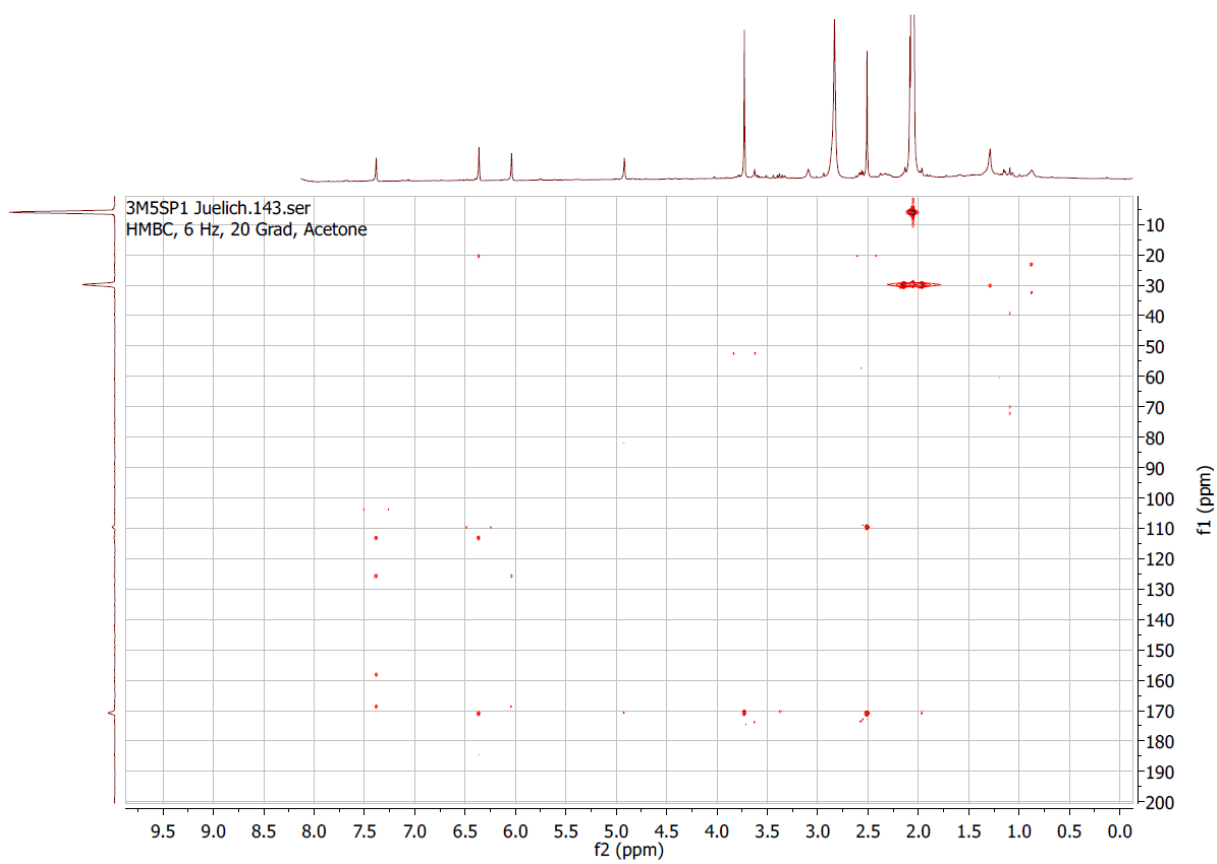
3M5SP1 Juelich.3.fid
26.04.2017



S26. ^1H NMR (750 MHz, acetone- d_6) spectrum of compound **5**.



S27. HSQC (750 and 175 MHz, acetone- d_6) spectrum of compound **5**.



S28. HMBC (750 and 175 MHz, acetone- d_6) spectrum of compound **5**.