

Supporting Information

Svetamycins A-G, Unusual Piperazic Acid- Containing Peptides from *Streptomyces* sp.

Denis Dardić,[†] Gianluigi Lauro[‡] Giuseppe Bifulco,[‡] Patricia Laboudie,[†] Peyman Sakhaei,[§] Armin Bauer,[⊥] Andreas Vilcinskas,[†] Peter E. Hammann,[⊥] Alberto Plaza*,[†]

[†] Sanofi-Fraunhofer Natural Product Center of Excellence, Fraunhofer IME, Industriepark Höchst Bldg. G878, 65926, Frankfurt am Main, Germany

[‡] Dipartimento di Farmacia, Università di Salerno, Via Giovanni Paolo II 132, 84084 Fisciano (SA), Italy

[†] Infectious Diseases Therapeutic Area, Sanofi R&D, Campus Mérieux, 1541 avenue Marcel Mérieux, XNord 315, 69280 Marcy L'Etoile, France

[§] NMR Laboratory, Chemistry & Biotechnology Development Frankfurt Chemistry, Sanofi-Aventis Deutschland GmbH, Industriepark Hoechst, Bldg. G849, 65926, Frankfurt am Main, Germany.

[⊥] R&D Infectious Diseases Therapeutic Area, Sanofi-Aventis Deutschland GmbH, Industriepark Höchst Bldg. G878, 65926, Frankfurt am Main, Germany

*E-mail: Alberto.Plaza@merckgroup.com

Table of contents

Table S1. NMR spectroscopic data (500 MHz, CD ₃ OD) for 1	SI-5
Table S2. NMR spectroscopic data (500 MHz, DMSO- <i>d</i> 6) for 2	SI-7
Table S3. NMR spectroscopic data (500 MHz, DMSO- <i>d</i> 6) for 3	SI-9
Table S4. NMR spectroscopic data (500 MHz, DMSO- <i>d</i> 6) for 5	SI-11
Table S5. NMR spectroscopic data (500 MHz, CD ₃ OD) for 6	SI-13
Table S6. NMR spectroscopic data (500 MHz, DMSO- <i>d</i> 6) for 6	SI-15
Table S7. NMR spectroscopic data (500 MHz, CD ₃ OD) for 7	SI-17
Table S8. ¹³ C experimental and scaled calculated NMR chemical shifts for 1a-h , with ^a Δδ(¹³ C) and ^b CMAE values.....	SI-19
Table S9. ¹ H experimental and calculated NMR chemical shifts for 1a-h, with ^a Δδ(¹ H) and ^b CMAE values.	SI-20
Table S10. Cartesian coordinates of the optimized geometries for the conformers of 1a-1h and related energies computed at the M062X/6-31g(d,p) level. In details, for each compound, we have reported information about the conformers contributing at least the 99.9% to the final Boltzmann distribution.	SI-74
Figure S1. The eight possible stereoisomers of 1 accounted for the prediction of ¹ H/ ¹³ C chemical shifts (1a-1h).	SI-21
Figure S2. ESI-HR-MS spectra of a) non-labeled svetamycin A, and b) svetamycin A obtained from feeding experiments with L-[3,3,4,4,5,5- ² H ₆]-ornithine.	SI-22
Figure S3. ESI-HR-MS spectra of a) svetamycin B, and b) svetamycin C obtained from feeding experiments with L-[methyl- ² H ₃]-methionine; and non-labelled c) svetamycin B and d) svetamycin C.....	SI-23
Figure S4. ¹ H NMR (500 MHz, DMSO- <i>d</i> 6) spectrum of 1 (impurities are not peak picked)... SI-24	
Figure S5. ¹ H, ¹³ C HSQC (500 MHz, DMSO- <i>d</i> 6) spectrum of 1	SI-25
Figure S6. ¹ H, ¹³ C HMBC (500 MHz, DMSO- <i>d</i> 6) spectrum of 1	SI-26
Figure S7. ¹ H, ¹ H TOCSY (500 MHz, DMSO- <i>d</i> 6) spectrum of 1.....	SI-27
Figure S 8. ¹ H, ¹ H ROESY (500 MHz, DMSO- <i>d</i> 6) spectrum of 1.....	SI-28
Figure S 9. ¹ H, ¹ H COSY (500 MHz, DMSO- <i>d</i> 6) spectrum of 1	SI-29
Figure S 10. ¹³ C NMR (500 MHz, DMSO- <i>d</i> 6) spectrum of 1.....	SI-30
Figure S 11. ¹ H NMR (500 MHz, CD ₃ OD) spectrum of 1 (impurities are not peak picked)	SI-31
Figure S 12. ¹ H, ¹³ C HSQC (500 MHz, CD ₃ OD) spectrum of 1	SI-32
Figure S 13. ¹ H, ¹³ C HMBC (500 MHz, CD ₃ OD) spectrum of 1 (from another batch of 1).....	SI-33
Figure S 14. ¹ H, ¹ H ROESY (500 MHz, CD ₃ OD) spectrum of 1	SI-34
Figure S 15. ¹ H, ¹ H COSY (500 MHz, CD ₃ OD) spectrum of 1	SI-35
Figure S 16. ¹ H NMR (500 MHz, DMSO- <i>d</i> 6) spectrum of 2 (impurities are not peak picked) SI-36	
Figure S 17. ¹ H, ¹³ C HSQC (500 MHz, DMSO- <i>d</i> 6) spectrum of 2.....	SI-37
Figure S 18. ¹ H, ¹³ C HMBC (500 MHz, DMSO- <i>d</i> 6) spectrum of 2.....	SI-38
Figure S 19. ¹ H, ¹ H TOCSY (500 MHz, DMSO- <i>d</i> 6) spectrum of 2.....	SI-39
Figure S 20. ¹ H, ¹ H ROESY (500 MHz, DMSO- <i>d</i> 6) spectrum of 2.....	SI-40
Figure S 21. ¹ H, ¹ H COSY (500 MHz, DMSO- <i>d</i> 6) spectrum of 2.....	SI-41
Figure S 22. ¹ H NMR (500 MHz, DMSO- <i>d</i> 6) spectrum of 3 (impurities are not peak picked) SI-42	
Figure S 23. ¹ H, ¹³ C HSQC (500 MHz, DMSO- <i>d</i> 6) spectrum of 3.....	SI-43
Figure S 24. ¹ H, ¹³ C HMBC (500 MHz, DMSO- <i>d</i> 6) spectrum of 3.....	SI-44

Figure S 25. ^1H , ^1H ROESY (500 MHz, DMSO- <i>d</i> 6) spectrum of 3.....	SI-45
Figure S 26. ^1H , ^1H COSY (500 MHz, DMSO- <i>d</i> 6) spectrum of 3.....	SI-46
Figure S 27. ^{13}C NMR (500 MHz, DMSO- <i>d</i> 6) spectrum of 3.....	SI-47
Figure S 28. ^1H NMR (500 MHz, DMSO- <i>d</i> 6) spectrum of 4.....	SI-48
Figure S 29. ^1H , ^{13}C HSQC (500 MHz, DMSO- <i>d</i> 6) spectrum of 4.....	SI-49
Figure S 30. ^1H , ^{13}C HMBC (500 MHz, DMSO- <i>d</i> 6) spectrum of 4.....	SI-50
Figure S 31. ^1H , ^1H TOCSY (500 MHz, DMSO- <i>d</i> 6) spectrum of 4.....	SI-51
Figure S 32. ^1H , ^1H COSY (500 MHz, DMSO- <i>d</i> 6) spectrum of 4.....	SI-52
Figure S 33. ^1H NMR (500 MHz, DMSO- <i>d</i> 6) spectrum of 5 (impurities are not peak picked).....	SI-53
Figure S 34. ^1H NMR (500 MHz, DMSO- <i>d</i> 6) spectrum of 5.....	SI-54
Figure S 35. ^1H , ^{13}C HMBC (500 MHz, DMSO- <i>d</i> 6) spectrum of 5.....	SI-55
Figure S 36. ^1H , ^1H TOCSY (500 MHz, DMSO- <i>d</i> 6) spectrum of 5.....	SI-56
Figure S 37. ^1H , ^1H COSY (500 MHz, DMSO- <i>d</i> 6) spectrum of 5.....	SI-57
Figure S 38. ^1H NMR (500 MHz, CD ₃ OD) spectrum of 6 (impurities are not peak picked)....	SI-58
Figure S 39. ^1H , ^{13}C HSQC (500 MHz, CD ₃ OD) spectrum of 6.....	SI-59
Figure S 40. ^1H , ^{13}C HMBC (500 MHz, CD ₃ OD) spectrum of 6.....	SI-60
Figure S 41. ^1H , ^1H TOCSY (500 MHz, CD ₃ OD) spectrum of 6.....	SI-61
Figure S 42. ^1H , ^1H COSY (500 MHz, CD ₃ OD) spectrum of 6.....	SI-62
Figure S 43. ^1H NMR (500 MHz, DMSO- <i>d</i> 6) spectrum of 6 (impurities are not peak picked).....	SI-63
Figure S 44. ^1H , ^{13}C HSQC (500 MHz, DMSO- <i>d</i> 6) spectrum of 6.....	SI-64
Figure S 45. ^1H , ^{13}C HMBC (500 MHz, DMSO- <i>d</i> 6) spectrum of 6.....	SI-65
Figure S 46. ^1H , ^1H COSY (500 MHz, DMSO- <i>d</i> 6) spectrum of 6.....	SI-66
Figure S 47. ^1H NMR (500 MHz, CD ₃ OD) spectrum of 7 (impurities are not peak picked)....	SI-67
Figure S 48. ^1H , ^{13}C HSQC (500 MHz, CD ₃ OD) spectrum of 7.....	SI-68
Figure S 49. ^1H , ^{13}C HMBC (500 MHz, CD ₃ OD) spectrum of 7.....	SI-69
Figure S 50. ^1H , ^1H TOCSY (500 MHz, CD ₃ OD) spectrum of 7.....	SI-70
Figure S 51. ^1H , ^1H COSY (500 MHz, CD ₃ OD) spectrum of 7.....	SI-71
Figure S52. ^1H NMR (500 MHz, DMSO- <i>d</i> 6) spectrum of 20 (impurities are not peak picked).....	SI-72
Figure S53. ^1H NMR (500 MHz, CD ₃ OD) spectrum of 21 (impurities are not peak picked)....	SI-73

Table S1. NMR spectroscopic data (500 MHz, CD₃OD) for **1**

	δ_C^a	δ_H^b (<i>J</i> in Hz)	HMBC ^c	ROESY ^d
α -MeSer				
1	175.0			
2	63.0			
3a	64.6	3.99 d (11.5)	1, 2, 4	4
3b		4.12 d (11.5)	1, 2, 4	4
4	20.1	1.54 s	1, 2, 3	
NH-2				
OH-3				
Pip				
1	172.0			
2	52.4	5.02 br. dd (5.0, 1.6)	3, 4	3ab
3a	25.2	1.87 ^e m	2, 4	2, 3b, 4a, 5a
3b		2.23 br. d (9.8)		2, 3a, 4a
4a	22.0	1.58 ^e		3b, 4b, 5ab
4b		1.90 ^e m	5	2, 3b, 4a
5a	47.9	2.83 ^e m	2	
5b		3.12 m		4ab
NH-5				
γ -ClPip				
1	175.2			
2	51.6	5.85 br. dd (7.0, 2.3)		3ab
3a	36.3	2.13 ddd (13.7, 12.0, 7.0)	1, 3, 4	3b, 5a
3b		2.52 ddd (13.6, 4.2, 2.0)	1, 4, 5	2, 3a, 4
4	52.6	4.11 ^e		3b
5a	55.2	2.86 dd (13.5, 10.4)	1, 5	3a, 5b

5b		3.40 ddd (13.5, 4.6, 1.7)	3, 4	5a
NH-5				
Ala				
1	176.1			
2	46.3	5.29 d (7.0) ^c		
3	17.9	1.33 d (7.0)	1, 3, 1 _{β,γ} -OHdPip	
NH-2			1, 2	
β,γ-OHdPip				
1	168.5			
2	58.4	4.89 ^e	1, 3, 4	
3	65.6	4.22 t (4.9)	1, 2, 4, 5	5
4	63.7	4.09 br. t (3.0)	2, 3, 5	2, 5
5	146.1	7.04 br. d (2.7)	3, 4	3, 4
OH-3				
OH-4				
HAAC				
1	169.5			
2a	62.2	4.93 d (16.2)	1, 1 _α -MeSer	
2b		5.31 ^e d (16.2)	1, 1 _α -MeSer	

^aRecorded at 175 MHz; referenced to residual CD₃OD at δ 49.15 ppm.

^bRecorded at 500 MHz; referenced to residual CD₃OD at δ 3.31 ppm.

^cProton showing HMBC correlation to indicated carbon.

^dProton showing ROESY correlation to indicated proton.

^eSignal overlapped

Table S2. NMR spectroscopic data (500 MHz, DMSO-*d*6) for **2**

	δ_C^a	δ_H^b (<i>J</i> in Hz)	HMBC ^c	ROESY ^d
α-MeSer				
1	172.0			
2	60.5			
3a	63.9	3.71 dd (10.7, 8.0)	1, 4	3b, 4, NH-2, OH-3
3b		3.81 dd (10.8, 5.6)	1, 4	3a, 4, NH-2, OH-3
4	19.1	1.43 s	1, 2, 3	3ab, NH-2, OH-3
NH-2		7.55 s	1, 2, 4, 1 δ -MePip	3ab, 4, 2 δ -MePip, 3b δ -MePip, NH-5 δ -MePip, OH-3
OH-3		4.44 br. dd (8.0, 5.5)		3ab, 4, NH-2
δ-MePip				
1	169.0			
2	49.7	4.88 br. dd (5.5, 1.4)	1, 3, 4	3ab, NH-2 α -MeSer
3a	24.3	1.76 m		2, 3b,
3b		2.17 br. d (13.5)		2, 3a, 4a, NH-2 α -MeSer
4a	28.2	1.36 m		3ab, 4b, NH-5
4b		1.51 br. dd (12.6, 4.0)		4a, 5a, Me-5
5a	52.3	2.69 ^e m		3a, 4b, Me-5
Me-5	19.3	1.00 ^e br. d (6.5)	4, 5	4b, 5a, NH-5
NH-5		4.14 d (12.2)		4a, Me-5, 2 γ -ClPip,
γ-ClPip				
1	171.4			
2	49.7	5.8 d (8.8)		3ab, NH-5 δ -MePip
3a	34.7	1.93 td (13.0, 6.0)	1, 2, 4	2, 3b
3b		2.38 m		2, 3a, 4
4	52.6	4.36 tt (11.2, 5.4)		3b, 5b, NH-5
5a	54.1	2.67 ^e m		5b, 3 _{Ala}

5b	3.39 m			4, 5a, NH-5
NH-5	5.27 ^e			4, 5b, 3 _{Ala}
Ala				
1	172.4			
2	43.4	5.31 q (7.0)	1	3, NH-2, 5a _{γ-ClPip}
3	18.1	1.19 br. d (6.9)	1, 2	2, NH-2
NH-2		7.94 br. d (6.9)		2, 3, 2 _{β,γ-OHdPip}
β,γ-OHdPip				
1	166.3			
2	56.9	4.67 d (4.8)	1, 3, 4	3, 4, NH-2 _{Ala} , OH-3
3	63.7	4.05 q (4.3)	1, 5	2, 4, OH-3, OH-4
4	62.4	3.94 m		2, 3, 5, OH-3, OH-4
5	146.9	6.97 br. d (2.0)	3, 4	2, 3, 4, OH-3, OH-4
OH-3		5.27 ^e	1, 2, 3, 4	2, 3, 4, 5, OH-4
OH-4		5.85 d (8.7)	3, 4, 5	3, 4, 5, OH-3
HAAC				
1	166.4			
2a	61.9	4.71 d (15.9)	1, 1 _{α-MeSer}	2b
2b		5.25 ^e d (15.9)	1, 1 _{α-MeSer}	2a

^aRecorded at 175 MHz; referenced to residual DMSO-*d*₆ at δ 39.51 ppm.

^bRecorded at 500 MHz; referenced to residual DMSO-*d*₆ at δ 2.50 ppm.

^cProton showing HMBC correlation to indicated carbon.

^dProton showing ROESY correlation to indicated proton.

^eSignal overlapped

Table S3. NMR spectroscopic data (500 MHz, DMSO-*d*₆) for **3**

	δ_C^a	δ_H^b (<i>J</i> in Hz)	HMBC ^c	ROESY ^d
α-MeSer				
1	171.9			
2	59.8			
3a	63.4	3.61 dd (10.8, 6.4)	1, 2, 4	3b, 4, NH-2, OH-3
3b		3.83 dd (10.8, 5.9)	1, 2, 4	3a, 4, NH-2, OH-3
4	19.9	1.37 s	1, 2, 3	3ab, NH-2, OH-3
NH-2		7.78 s	1, 2, 3, 4, 1 δ,δ -dMePip, 2 δ,δ -dMePip	3ab, 4, 2 δ,δ -dMePip, 3b δ,δ -dMePip, OH-3
OH-3		4.76 ^e br. dd (6.2, 5.7)		3ab, 4, NH-2
δ,δ-dMePip				
1	169.1			
2	49.7	4.88 br. dd (5.4, 1.6)	1, 3, 4	3ab, 4a, Me-5a, NH-2 α -MeSer
3a	21.4	1.96 m	1, 2, 4	2, 3b, 4a, Me-5a
3b		2.07 dq (13.5, 2.2)	1, 2, 4	2, 3a, 4a, Me-5b, NH-2 α -MeSer
4a	31.8	1.34 dt (13.3, 3.2)	3, 5, Me-5ab	3ab, NH-5
4b		1.42 br. dd (13.3, 4.0)	3, 5, Me-5ab	3b, NH-5
5	50.9			
Me-5a	28.3	1.00 br, s	4, 5, Me-5b	4ab, NH-2
Me-5b	22.7	1.01 br. s	4, 5, Me-5a	2, 3a, 2 γ -ClPip, 3b γ -ClPip
NH-5		4.57 ^e s	1 γ -ClPip	4b, Me-5a, 2 γ -ClPip,
γ-ClPip				
1	171.7			
2	48.8	5.83 br. s		3ab, Me-5b δ,δ -dMePip, NH-5 δ,δ -dMePip
3a	34.2	1.89 ddd (12.7, 11.2, 6.0)	1, 2, 4, 5	2, 3b, 5a
3b		2.40 br. ddd (12.8, 4.5, 1.7)	2, 4, 5	2, 3a, 4, 5a δ,δ -dMePip

4	52.3	4.46 tt (10.9, 4.6)	3, 5	3b, 5b, NH-5
5a	54.0	2.69 td (12.7, 11.0)	3, 4	3a, 5b, 3 _{Ala}
5b		3.41 br. ddd (12.8, 4.4, 2.0)	3, 4	4, 5a, NH-5
NH-5		5.21 ^e	2, 4, 5	4, 5b
Ala				
1	172.3			
2	43.1	5.38 q (7.0)	1, 3, 1 _{β,γ-OHdPip}	3, 5a _{γ-ClPip} , NH-2
3	17.9	1.18 d (7.0)	1, 2	2, NH-2, 5a _{γ-ClPip}
NH-2		7.91 br. d (7.0)		2, 3, 2 _{β,γ-OHdPip}
β,γ -OHdPip				
1	166.4			
2	56.9	4.56 ^e br. d (5.0)	1, 3, 4	3, 4, NH-2 _{Ala} , OH-3
3	63.7	4.06 q (4.0)	1, 4, 5	2, 4, 5, OH-3, OH-4
4	63.0	3.95 m	5	2, 3, 5, OH-3, OH-4
5	147.1	6.93 br. d (1.1)	3, 4	4, OH-3, OH-4, 2b _{HAAC}
OH-3		5.22 ^e d	2, 3, 4, 5	2, 3, 4, 5
OH-4		5.73 d (8.3)	3, 4, 5	2, 3, 4, 5, 2 _{Ala} , OH-3
HAAC				
1	166.1			
2a	61.3	4.73 ^e d (16.2)	1, 1 _{α-MeSer}	2b, NH-2 _{α-MeSer}
2b		5.18 d (16.2)	1, 1 _{α-MeSer}	2a, 5 _{β,γ-OHdPip}

^aRecorded at 175 MHz; referenced to residual DMSO-*d*₆ at δ 39.51 ppm.

^bRecorded at 500 MHz; referenced to residual DMSO-*d*₆ at δ 2.50 ppm.

^cProton showing HMBC correlation to indicated carbon.

^dProton showing ROESY correlation to indicated proton.

^eSignal overlapped

Table S4. NMR spectroscopic data (500 MHz, DMSO-*d*₆) for **5**

	δ_{C}^a	δ_{H}^b (<i>J</i> in Hz)	HMBC ^c
α -MeSer			
1	173.5		
2	60.1		
3a	64.6	3.53 ^e d (10.8)	1, 2, 4
3b		3.64 d (10.8)	1, 2, 4
4	19.6	1.35 s	1, 2, 3
NH-2		7.96 s	1, 2, 3, 4, 1 _{Pip}
OH-1			
OH-3			
δ,δ -dMePip			
1	170.2		
2	49.5	4.88 br. s	
3a	22.9	2.00 ^e m	
3b		2.00 ^e m	
4a	31.9	1.38 ^e m	3, 5
4b		1.38 ^e m	
5	50.9		
5a	28.4	1.03 s	4, 5, 5b
5b	22.1	1.08 s	4, 5, 5a
NH-5		4.64 s	5ab
γ -ClPip			
1	172.0		
2	49.1	5.80 br. dd (5.5, 2.3)	1, 3, 4
3a	34.8	1.97 ^e m	1, 2, 4, 5
3b		2.65 ^e m	

4	52.5	4.24 tt (10.9, 4.5)	
5a	53.6	2.68 ^e m	3, 4
5b		3.36 ^e	3, 4
NH-5		5.49 br. dd (12.3, 1.8)	1 _{Ala}
Ala			
1	172.8		
2	45.4	5.04 dq (8.5, 6.8)	1, 3, 1 _{β,γ-OHdPip}
3	18.0	1.16 d (6.8)	1, 2
NH-2		7.59 d (8.5)	1, 1 _{β,γ-OHdPip}
β,γ-OHdPip			
1	165.3		
2	55.1	4.75 br. d (5.2)	1, 3, 4, 1 _{HAAC}
3	65.2	4.00 br. dd (5.2, 3.5)	1, 2
4	62.3	3.96 t (3.3)	
5	144.2	6.86 d (3.0)	3, 4
OH-3			
OH-4			
HAAC			
1	172.5		
2a	59.9	4.30 d (17.3)	1
2b		4.35 d (17.3)	
OH-1			

^aRecorded at 175 MHz; referenced to residual DMSO-*d*₆ at δ 39.51 ppm.

^bRecorded at 500 MHz; referenced to residual DMSO-*d*₆ at δ 2.50 ppm.

^cProton showing HMBC correlation to indicated carbon.

^eSignal overlapped

Table S5. NMR spectroscopic data (500 MHz, CD₃OD) for **6**

	δ_{C}^a	δ_{H}^b (<i>J</i> in Hz)	HMBC ^c
α -MeSer			
1	173.0		
2	61.8		
3a	63.2	4.06 ^d d (4.3)	1, 2, 4
3b		4.06 ^d	
4	19.5	1.57 s	1, 2, 3
NH-2		7.65 s	1, 2, 4, 1 _{Pip}
OH-3			
Pip			
1	170.4		
2	52.2	5.04 ^d br. dd (5.9, 1.3)	1, 3, 4, 1 _{γ-BrPip}
3a	24.3	1.80 m	1, 2, 4
3b		2.17 dd (13.9, 1.0)	
4a	21.8	1.53 m	
4b		2.00 m	5
5a	47.9	2.79 td (13.5, 2.7)	4
5b		3.10 br. ddd (13.5, 4.2, 2.7)	4
NH-5			
γ -BrPip			
1	173.4		
2	52.7	5.82 br. dd (6.8, 1.6)	1, 3, 4
3a	37.2	2.26 td (13.5, 6.9)	1, 2, 4, 5
3b		2.59 dt (13.5, 2.2)	2, 4, 5
4	43.9	4.22 m	3, 5
5a	55.7	2.93 dd (13.4, 11.3)	3, 4

5b		3.44 ddd (13.5, 4.5, 2.5)	3, 4
NH-5			
Ala			
1	173.9		
2	47.1	5.24 dd (13.8, 6.9)	1, 3, 1 _{β,γ} -OHdPip
3	18.5	1.33 d (6.9)	1, 2
NH-2			
β,γ-OHdPip			
1	166.7		
2	52.8	5.02 ^d br. d (6.0)	1, 3, 4, 1 _{HAAC}
3	65.0	4.18 br. dd (5.8, 5.2)	1, 2, 4, 5
4	62.8	4.03 m	2, 3, 5
5	147.2	7.07 d (3.1)	3, 4
OH-3			
OH-4			
HAAC			
1	168.1		
2a	64.2	4.82 ^d d (16.3)	1, 1 _{α-MeSer}
2b		5.41 d (16.3)	1, 1 _{α-MeSer}

^aRecorded at 175 MHz; referenced to residual CD₃OD at δ 49.15 ppm.

^bRecorded at 500 MHz; referenced to residual CD₃OD at δ 3.31 ppm.

^cProton showing HMBC correlation to indicated carbon.

^dSignal overlapped

Table S6. NMR spectroscopic data (500 MHz, DMSO-*d*₆) for **6**

	δ_{C}^a	δ_{H}^b (<i>J</i> in Hz)	HMBC ^c
α -MeSer			
1	171.8		
2	60.5		
3a	64.3	3.69 dd (11.0, 7.7)	1, 2, 4
3b		3.78 dd (11.0, 5.8)	1, 2, 4
4	19.3	1.43 s	1, 2, 3
NH-2		7.59 s	1, 2, 3, 4, 1 _{Pip}
OH-3		4.55 br. dd 7.7, 5.8)	3
Pip			
1	169.0		
2	51.2	4.92 m	1, 3, 4
3a	24.2	1.72 ^d m	4
3b		2.20 m	4
4a	20.2	1.35 m	3
4b		1.74 ^d m	3
5a	46.4	2.61 m	
5b		2.95 m	
NH-5		4.60 ^d br. Dd (12.7, 1.6)	
γ -BrPip			
1	171.3		
2	51.0	5.70 br. dd (6.2, 1.3)	1, 3, 4
3a	35.6	2.05 td (12.8, 6.2)	1, 2, 4, 5
3b		2.50 ^d	2, 4, 5
4	45.2	4.51 m	3
5a	54.7	2.82 q (12.3)	3, 4

5b		3.45 m	3, 4
NH-5		5.28 ^d br. dd (12.3, 1.7)	
Ala			
1	172.0		
2	43.0	5.35 ^d dq (8.2, 6.9)	1, 3, 1 _{β,γ} -OHdPip
3	18.1	1.18 d (6.9)	1, 2
NH-2		8.13 d (8.2)	1 _{β,γ} -OHdPip
β,γ-OHdPip			
1	166.3		
2	56.7	4.71 d (5.4)	1, 3, 4
3	63.8	4.05 q (4.6)	1, 4, 5
4	62.6	3.94 ddd (8.6, 4.5, 2.5)	3, 5
5	146.8	6.97 d (2.5)	3, 4
OH-3		5.26 ^d d (4.3)	2, 3, 4
OH-4		5.81 d (8.6)	3, 4, 5
HAAC			
1	166.6		
2a	61.5	4.61 ^d d (15.8)	1, 1 _α -MeSer
2b		5.37 ^d d (15.8)	1, 1 _α -MeSer

^aRecorded at 175 MHz; referenced to residual DMSO-*d*₆ at δ 39.51 ppm.

^bRecorded at 500 MHz; referenced to residual DMSO-*d*₆ at δ 2.50 ppm.

^cProton showing HMBC correlation to indicated carbon.

^dSignal overlapped

Table S7. NMR spectroscopic data (500 MHz, CD₃OD) for **7**

	δ_{C}^a	δ_{H}^b (<i>J</i> in Hz)	HMBC ^c
α -MeSer			
1	172.4		
2	61.5		
3a	63.0	4.06 ^d s	1, 2, 4
3b		4.06 ^d	
4	17.4	1.54 s	1, 2, 3
NH-2		7.72 s	
OH-3			
δ,δ -dMePip			
1	169.9		
2	49.2	5.04 br. dd (5.8, 1.6)	1, 3, 4, 1 γ - BrPip
3a	19.5	1.99 m	1, 2, 4
3b		2.07 m	2, 4
4a	31.4	1.46 m	2, 3, 5, 5b
4b		1.76 td (13.3, 3.5)	3, 5, 5a
5	50.5		
5a	27.1	1.14 s	3, 4, 5, 5b
5b	21.4	1.16 s	4, 5, 5a
NH-5			
γ -BrPip			
1	173.8		
2	50.3	5.86 br. dd (6.2, 1.5)	1, 3, 4
3a	35.1	2.20 ddd (13.5, 12.4, 6.2)	1, 2, 4, 5
3b		2.77 ddd (13.5, 4.0, 1.7)	4
4	41.9	4.32 dddd (12.2, 10.5, 4.5, 4.1)	

5a	53.9	2.94 dd (13.4, 11.0)	3, 4
5b		3.45 br. dd (13.6, 4.4)	3, 4
NH-5			
Ala			
1	173.2		
2	45.1	5.27 q (6.9)	1, 3, 1 _{β,γ} -OHdPip
3	16.7	1.33 d (6.9)	1, 2
NH-2			
β,γ -OHdPip			
1	166.6		
2	55.8	4.99 br. d (5.7)	1, 3, 4
3	62.9	4.17 br. dd (5.7, 5.3)	1, 2, 4, 5
4	60.9	4.02 br. dd (5.3, 3.0)	2, 3, 5
5	145.3	7.07 d (3.0)	3, 4
OH-3			
OH-4			
HAAC			
1	166.6		
2a	62.2	4.85 ^d d (16.3)	1, 1 _{α} -MeSer
2b		5.37 d (16.3)	1, 1 _{α} -MeSer

^aRecorded at 175 MHz; referenced to residual CD₃OD at δ 49.15 ppm.

^bRecorded at 500 MHz; referenced to residual CD₃OD at δ 3.31 ppm.

^cProton showing HMBC correlation to indicated carbon.

^dSignal overlapped

Table S8. ^{13}C experimental and scaled calculated NMR chemical shifts for **1a-h**, with $^a|\Delta\delta|(^{13}\text{C})$ and $^b\text{CMAE}$ values.

$\delta_{\text{exp}} (^{13}\text{C}), \text{ppm}$		$\delta_{\text{scaled}} (^{13}\text{C}), \text{ppm}$								$ \Delta\delta (^{13}\text{C}), \text{ppm}^a$								
position		1a	1b	1c	1d	1e	1f	1g	1h	1a	1b	1c	1d	1e	1f	1g	1h	
1	α -MeSer	171.9	174.1 ^c	173.9 ^c	172.0 ^c	172.5 ^c	173.1 ^c	174.8 ^c	173.5 ^c	174.3 ^c	2.20	1.99	0.06	0.62	1.22	2.90	1.55	2.38
		60.4	61.6	61.6	60.5	63.8	64.4	65.4	64.5	65.6	1.24	1.22	0.15	3.44	3.96	5.00	4.12	5.17
		63.6	60.6	60.7	65.2	65.4	61.7	64.3	62.5	64.2	2.98	2.86	1.63	1.75	1.92	0.68	1.06	0.59
		19.7	18.6	18.1	19.4	18.3	19.8	17.1	19.9	18.1	1.14	1.56	0.34	1.41	0.10	2.56	0.22	1.58
1	Pip	168.9	171.1 ^c	171.1 ^c	172.9 ^c	170.9 ^c	171.3 ^c	170.4 ^c	168.8 ^c	170.1 ^c	2.20	2.17	4.05	1.99	2.39	1.46	0.11	1.18
		50.9	48.5	48.6	48.8	47.9	49.4	50.8	50.2	51.3	2.39	2.32	2.10	2.99	1.49	0.05	0.74	0.36
		24.4	21.6	21.4	21.5	21.4	22.5	22.7	22.8	23.2	2.78	2.98	2.85	2.95	1.91	1.69	1.56	1.22
		20.2	17.7	17.7	18.2	18.4	18.7	19.6	18.8	19.6	2.52	2.49	2.01	1.76	1.51	0.59	1.40	0.58
		46.3	43.3	43.4	43.7	44.1	43.6	43.4	43.7	43.3	2.98	2.93	2.63	2.18	2.65	2.86	2.56	3.05
1	γ -ClPip	171.8	175.2 ^c	175.4 ^c	176.6 ^c	176.2 ^c	172.7 ^c	169.0 ^c	171.7 ^c	167.8 ^c	3.36	3.59	4.78	4.36	0.86	2.82	0.08	3.97
		49.8	50.4	50.0	49.6	49.9	48.2	50.1	48.8	51.0	0.59	0.24	0.25	0.06	1.64	0.26	1.00	1.22
		34.5	34.3	34.4	34.5	34.1	33.5	33.0	33.8	33.2	0.18	0.05	0.05	0.36	1.04	1.48	0.66	1.34
		52.5	53.7	53.6	53.9	53.8	56.0	57.8	55.4	58.1	1.16	1.07	1.36	1.33	3.46	5.27	2.93	5.59
		54.0	51.1	51.1	50.9	50.8	51.2	51.4	51.3	51.4	2.88	2.88	3.07	3.21	2.84	2.61	2.72	2.63
1	Ala	172.7	176.3 ^c	175.6 ^c	174.9 ^c	173.9 ^c	173.1 ^c	173.4 ^c	172.3 ^c	172.5 ^c	3.58	2.94	2.17	1.22	0.44	0.71	0.44	0.22
		43.1	47.5	47.5	47.3	47.4	45.7	45.2	48.0	47.6	4.43	4.41	4.16	4.31	2.64	2.07	4.90	4.47
		17.9	16.2	17.0	16.9	16.5	16.8	18.3	16.1	16.8	1.70	0.93	0.95	1.45	1.10	0.36	1.82	1.08
1	β,γ -OHdPip	166.6	167.1 ^c	166.2 ^c	162.7 ^c	166.6 ^c	168.6 ^c	162.1 ^c	168.2 ^c	169.3 ^c	0.49	0.41	3.87	0.04	1.99	4.49	1.62	2.72
		56.9	52.8	54.2	56.2	56.5	58.9	57.4	53.7	51.2	4.12	2.66	0.71	0.37	2.04	0.54	3.25	5.75
		63.8	63.1	59.1	61.1	63.7	67.4	59.2	63.5	64.2	0.74	4.74	2.74	0.08	3.63	4.64	0.30	0.39
		62.6	64.5	56.3	60.2	59.8	66.3	59.3	62.0	65.0	1.93	6.28	2.43	2.78	3.72	3.35	0.61	2.41
		147.2	137.6 ^d	137.8 ^d	140.8 ^d	140.8 ^d	139.9 ^d	141.2 ^d	146.3 ^d	138.1 ^d	9.59	9.38	6.39	6.40	7.26	6.00	0.92	9.12
1	Haa	166.7	170.4 ^c	168.8 ^c	168.2 ^c	168.2 ^c	167.0 ^c	168.7 ^c	168.3 ^c	170.6 ^c	3.68	2.11	1.51	1.48	0.26	2.03	1.60	3.85
		61.5	61.2	60.0	61.2	60.6	60.8	60.3	61.4	61.6	0.29	1.46	0.27	0.86	0.73	1.17	0.06	0.13
CMAE ^b											2.46	2.65	2.11	1.98	2.12	2.32	1.51	2.54

^a $|\Delta\delta|(^{13}\text{C}) = |\delta_{\text{exp}} - \delta_{\text{scaled}}|(^{13}\text{C}), \text{ppm}$: absolute differences for experimental versus scaled calculated ^{13}C NMR chemical shifts. The δ_{scaled} values were obtained by the corresponding calculated chemical shift data (δ_{calcd}); the latter were produced using the “multi standard” approach, using: ^c benzene for sp^2 ^{13}C atoms, (excluding carbonyl carbons), ^d N-Methylformamide for carbonyl carbons, and TMS (all the remaining reported values) for sp^3 ^{13}C atoms, as reference compounds.

^b **CMAE** = $(\sum[|\delta_{\text{exp}} - \delta_{\text{scaled}}|])/n$, summation through n of the absolute error values (difference of the absolute values between corresponding experimental and scaled calculated ^{13}C chemical shifts), normalized to the number of the chemical shifts (n).

Table S9. ^1H experimental and calculated NMR chemical shifts for **1a-h**, with $^a|\Delta\delta|(^1\text{H})$ and $^b\text{CMAE}$ values.

$\delta_{\text{exp}} (^1\text{H}), \text{ppm}$		$\delta_{\text{scaled}} (^1\text{H}), \text{ppm}$								$ \Delta\delta (^1\text{H}), \text{ppm}^a$							
position		1a	1b	1c	1d	1e	1f	1g	1h	1a	1b	1c	1d	1e	1f	1g	1h
α -MeSer																	
3a	3.67	4.27	4.21	4.24	4.08	3.77	3.76	3.74	3.82	0.60	0.54	0.57	0.41	0.10	0.09	0.07	0.15
3b	3.82	4.32	4.29	4.33	4.41	4.30	3.95	4.18	3.92	0.50	0.47	0.51	0.59	0.48	0.13	0.36	0.10
4	1.42	1.56	1.51	1.83	1.42	1.54	1.65	1.60	1.68	0.14	0.09	0.41	0.00	0.12	0.23	0.18	0.26
NH-2	7.68	IGN.*	IGN.*	IGN.*	IGN.*	IGN.*	IGN.*	IGN.*	IGN.*	IGN.*	IGN.*	IGN.*	IGN.*	IGN.*	IGN.*	IGN.*	IGN.*
OH-3	4.57	IGN.*	IGN.*	IGN.*	IGN.*	IGN.*	IGN.*	IGN.*	IGN.*	IGN.*	IGN.*	IGN.*	IGN.*	IGN.*	IGN.*	IGN.*	IGN.*
Pip																	
2	4.90	5.02	5.05	5.17	5.17	4.98	5.30	5.07	5.19	0.12	0.15	0.27	0.27	0.08	0.40	0.17	0.29
3a	1.72	1.36	1.32	1.37	1.43	1.30	1.48	1.32	1.26	0.36	0.40	0.35	0.29	0.42	0.24	0.40	0.46
3b	2.19	1.99	1.94	2.03	2.13	2.37	2.58	2.55	2.86	0.20	0.25	0.16	0.06	0.18	0.39	0.36	0.67
4a	1.35	1.02	1.00	1.02	1.17	1.07	1.17	1.12	1.19	0.33	0.35	0.33	0.18	0.28	0.18	0.23	0.16
4b	1.68	2.65	2.63	2.39	2.29	2.01	1.38	1.61	1.45	0.97	0.95	0.71	0.61	0.33	0.30	0.07	0.23
5a	2.61	2.74	2.77	2.72	2.72	2.68	2.66	2.71	2.65	0.13	0.16	0.11	0.11	0.07	0.05	0.10	0.04
5b	2.94	3.03	3.07	2.98	3.01	2.86	2.68	2.90	2.69	0.09	0.13	0.04	0.07	0.08	0.26	0.04	0.25
NH-5	4.67	IGN.*	IGN.*	IGN.*	IGN.*	IGN.*	IGN.*	IGN.*	IGN.*	IGN.*	IGN.*	IGN.*	IGN.*	IGN.*	IGN.*	IGN.*	IGN.*
γ -ClPip																	
2	5.73	5.92	6.00	6.20	6.06	5.57	4.62	5.50	4.37	0.19	0.27	0.47	0.33	0.16	1.11	0.23	1.36
3a	1.90	1.79	1.80	1.85	1.86	1.77	1.80	1.74	1.72	0.11	0.10	0.05	0.04	0.13	0.10	0.16	0.18
3b	2.41	2.38	2.40	2.26	2.25	2.22	2.36	2.23	2.42	0.03	0.01	0.15	0.16	0.19	0.05	0.18	0.01
4	4.36	3.93	3.97	3.91	3.88	4.57	4.57	4.35	4.42	0.43	0.39	0.45	0.48	0.21	0.21	0.01	0.06
5a	2.66	2.67	2.67	2.67	2.67	2.73	2.74	2.70	2.79	0.01	0.01	0.01	0.01	0.07	0.08	0.04	0.13
5b	3.38	3.13	3.12	3.14	3.16	3.22	3.12	3.06	3.00	0.25	0.26	0.24	0.22	0.16	0.26	0.32	0.38
NH-5	5.23	IGN.*	IGN.*	IGN.*	IGN.*	IGN.*	IGN.*	IGN.*	IGN.*	IGN.*	IGN.*	IGN.*	IGN.*	IGN.*	IGN.*	IGN.*	IGN.*
Ala																	
2	5.33	5.34	5.30	5.37	5.30	5.65	5.85	5.23	5.27	0.01	0.03	0.04	0.03	0.32	0.52	0.10	0.06
3	1.18	1.22	1.19	1.18	1.20	1.25	1.24	1.38	1.27	0.04	0.01	0.00	0.02	0.07	0.06	0.20	0.09
NH-2	8.15	IGN.*	IGN.*	IGN.*	IGN.*	IGN.*	IGN.*	IGN.*	IGN.*	IGN.*	IGN.*	IGN.*	IGN.*	IGN.*	IGN.*	IGN.*	IGN.*
β,γ -OHdPip																	
2	4.71	5.30	5.25	4.85	5.18	3.86	5.39	4.60	5.38	0.59	0.54	0.14	0.47	0.85	0.68	0.11	0.67
3	4.06	3.28	3.74	4.40	4.34	3.50	4.75	4.08	3.39	0.78	0.32	0.34	0.28	0.56	0.69	0.02	0.67
4	3.93	4.86	3.61	4.99	3.42	3.93	4.03	3.63	4.57	0.93	0.32	1.06	0.51	0.00	0.10	0.30	0.64
5	6.97	7.43 ^c	7.44 ^c	7.42 ^c	7.52 ^c	7.33 ^c	7.31 ^c	7.72 ^c	7.24 ^c	0.46	0.47	0.45	0.55	0.36	0.34	0.75	0.27
OH-3	5.27	IGN.*	IGN.*	IGN.*	IGN.*	IGN.*	IGN.*	IGN.*	IGN.*	IGN.*	IGN.*	IGN.*	IGN.*	IGN.*	IGN.*	IGN.*	IGN.*
OH-4	5.80	IGN.*	IGN.*	IGN.*	IGN.*	IGN.*	IGN.*	IGN.*	IGN.*	IGN.*	IGN.*	IGN.*	IGN.*	IGN.*	IGN.*	IGN.*	IGN.*
Haa																	
2a	4.64	4.41	4.39	4.28	4.50	4.41	4.45	4.50	4.59	0.23	0.25	0.36	0.14	0.23	0.19	0.14	0.05
2b	5.30	5.69	5.69	5.66	5.69	5.71	5.91	5.77	5.72	0.39	0.39	0.36	0.39	0.41	0.61	0.47	0.42
CMAE^b										0.38	0.27	0.31	0.28	0.29	0.34	0.22	0.31

^a $|\Delta\delta|(^1\text{H}) = |\delta_{\text{exp}} - \delta_{\text{scaled}}| (^1\text{H}), \text{ppm}$: absolute differences for experimental versus scaled calculated ^1H NMR chemical shifts. The δ_{scaled} values were obtained by the corresponding calculated chemical shift data (δ_{calcd}); the latter were produced using the “multi standard” approach, using: ^c benzene for ^1H atoms bound to sp^2 ^{13}C atoms, and TMS (all the remaining reported values) for sp^3 ^1H atoms, as reference compounds.

^b **CMAE** = $(\sum[|\delta_{\text{exp}} - \delta_{\text{scaled}}|])/n$, summation through n of the absolute error values (difference of the absolute values between corresponding experimental and calculated ^1H chemical shifts), normalized to the number of the chemical shifts (n).

* IGNORED values, related to chemical shift values of hydrogens bound to heteroatoms

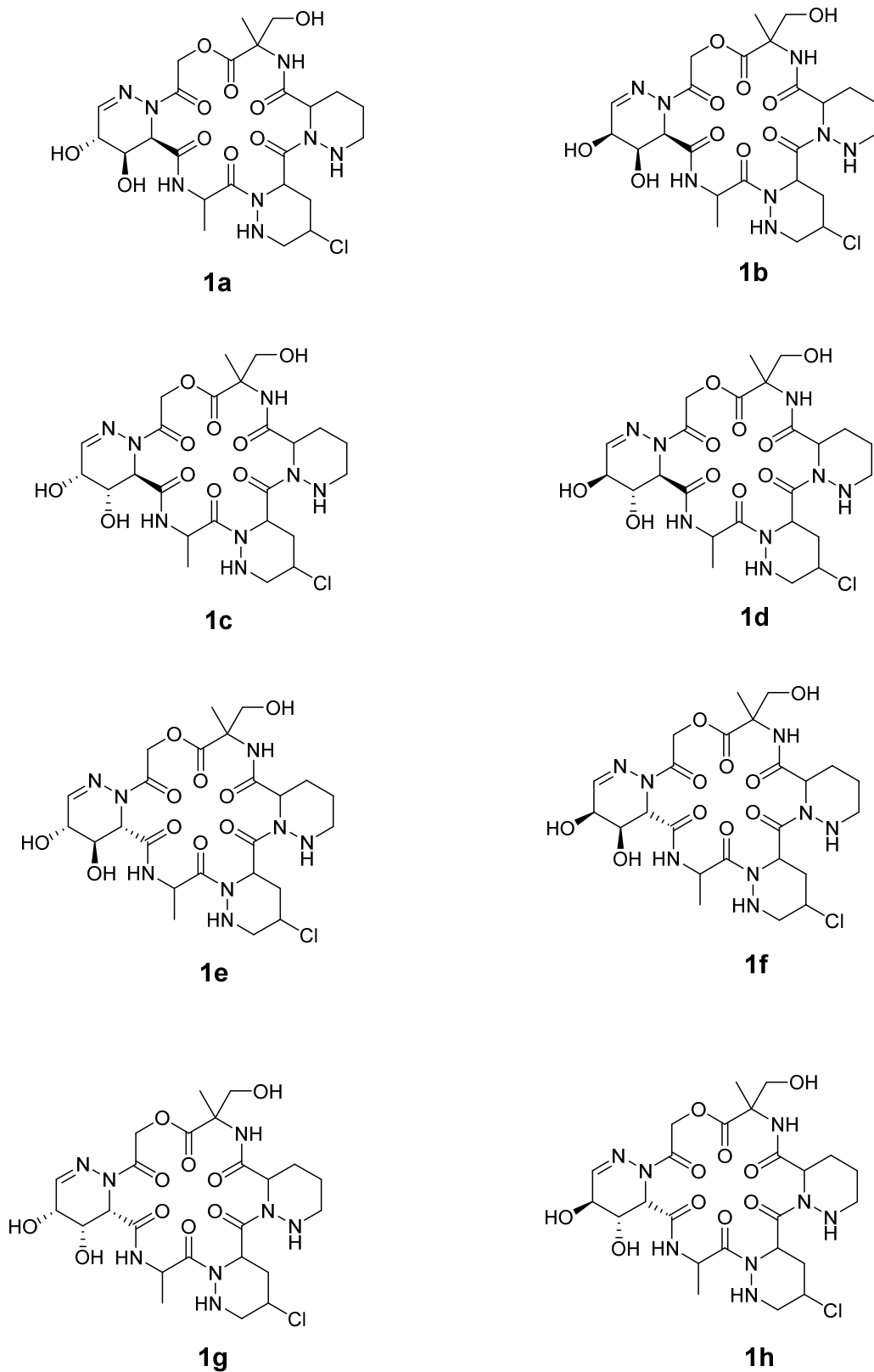


Figure S1. The eight possible stereoisomers of **1** accounted for the prediction of $^1\text{H}/^{13}\text{C}$ chemical shifts (**1a-1h**).

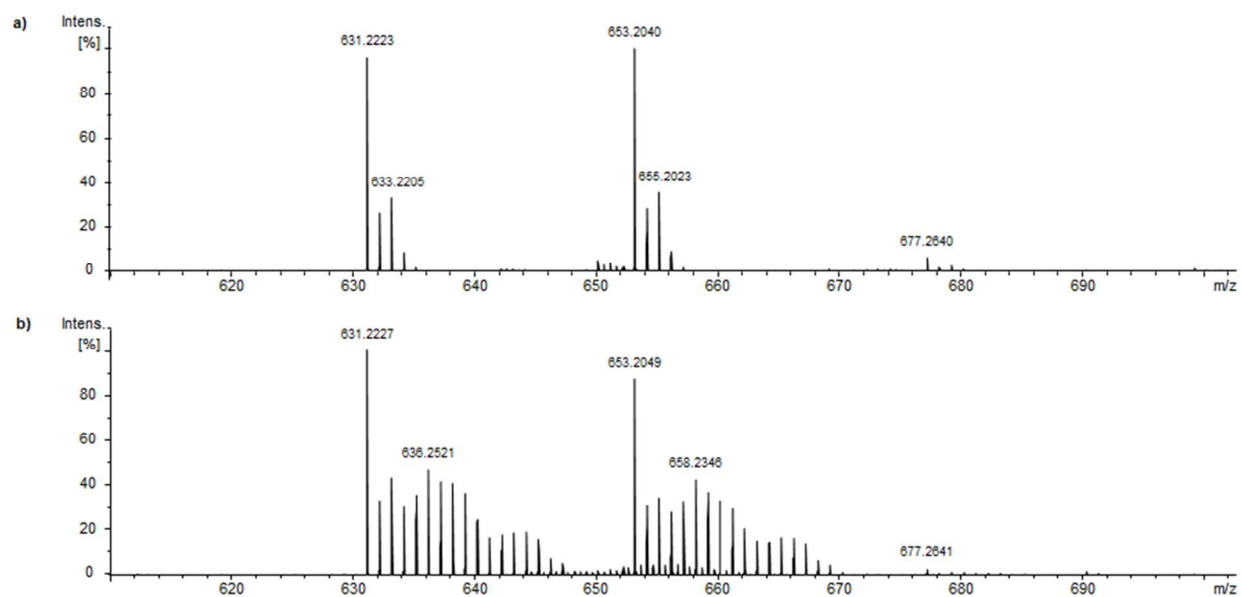


Figure S2. ESI-HR-MS spectra of a) non-labeled svetamycin A, and b) svetamycin A obtained from feeding experiments with L-[3,3,4,4,5,5- $^2\text{H}_6$]-ornithine.

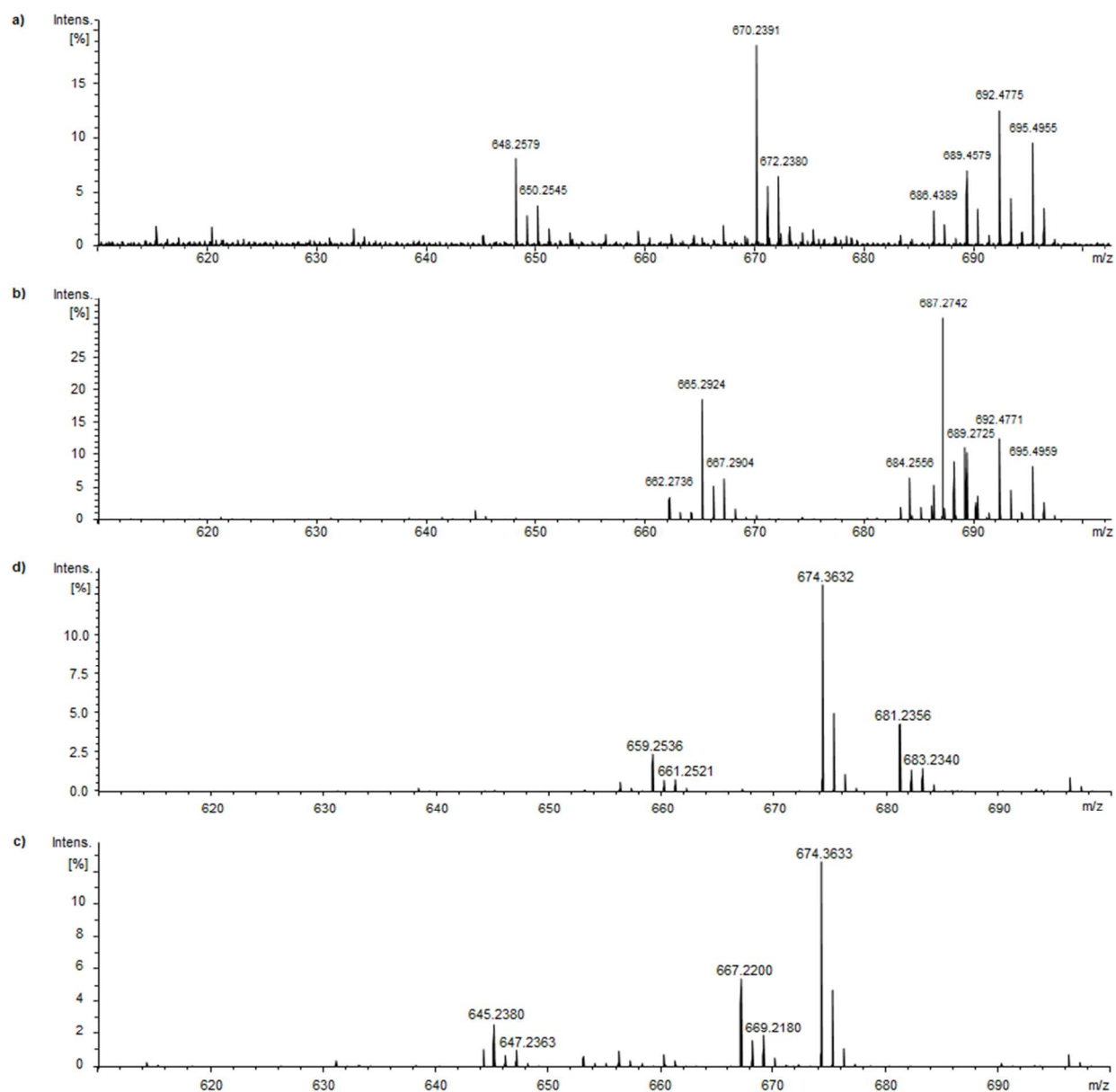


Figure S3. ESI-HR-MS spectra of a) svetamycin B, and b) svetamycin C obtained from feeding experiments with L -[methyl- $^2\text{H}_3$]-methionine; and non-labelled c) svetamycin B and d) svetamycin C.

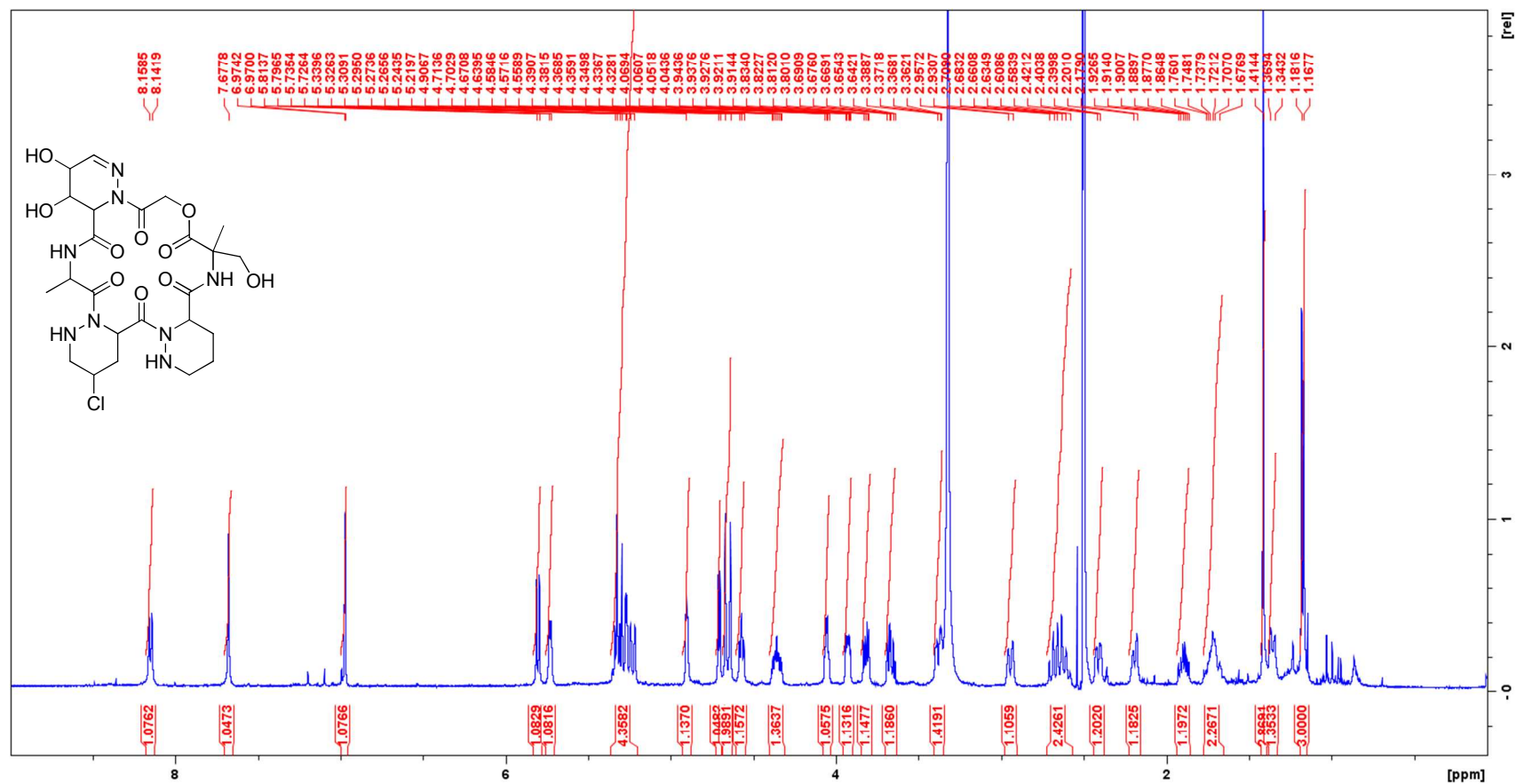


Figure S4. ¹H NMR (500 MHz, DMSO-*d*₆) spectrum of **1** (impurities are not peak picked)

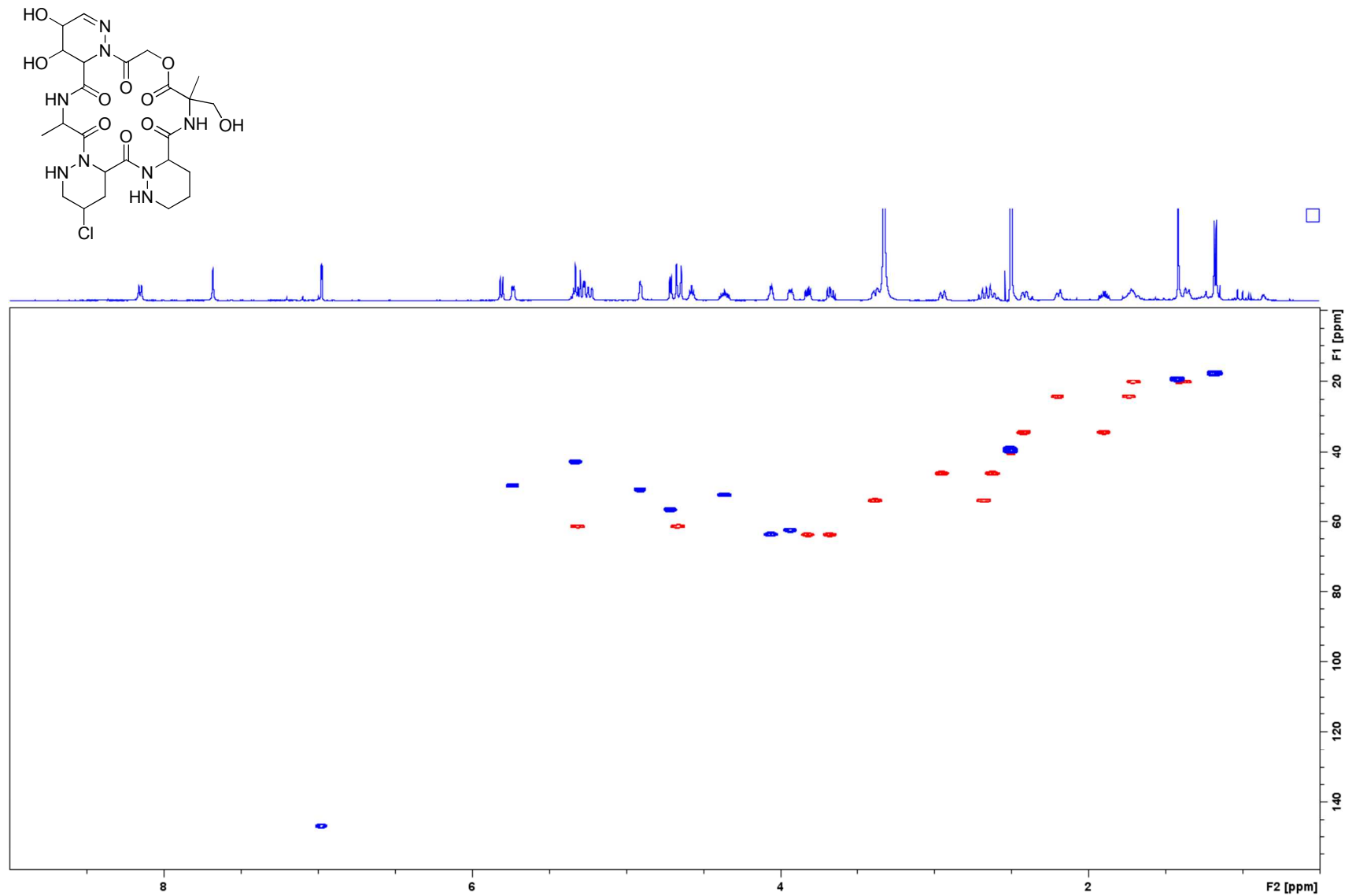


Figure S5. ^1H , ^{13}C HSQC (500 MHz, DMSO- d_6) spectrum of 1

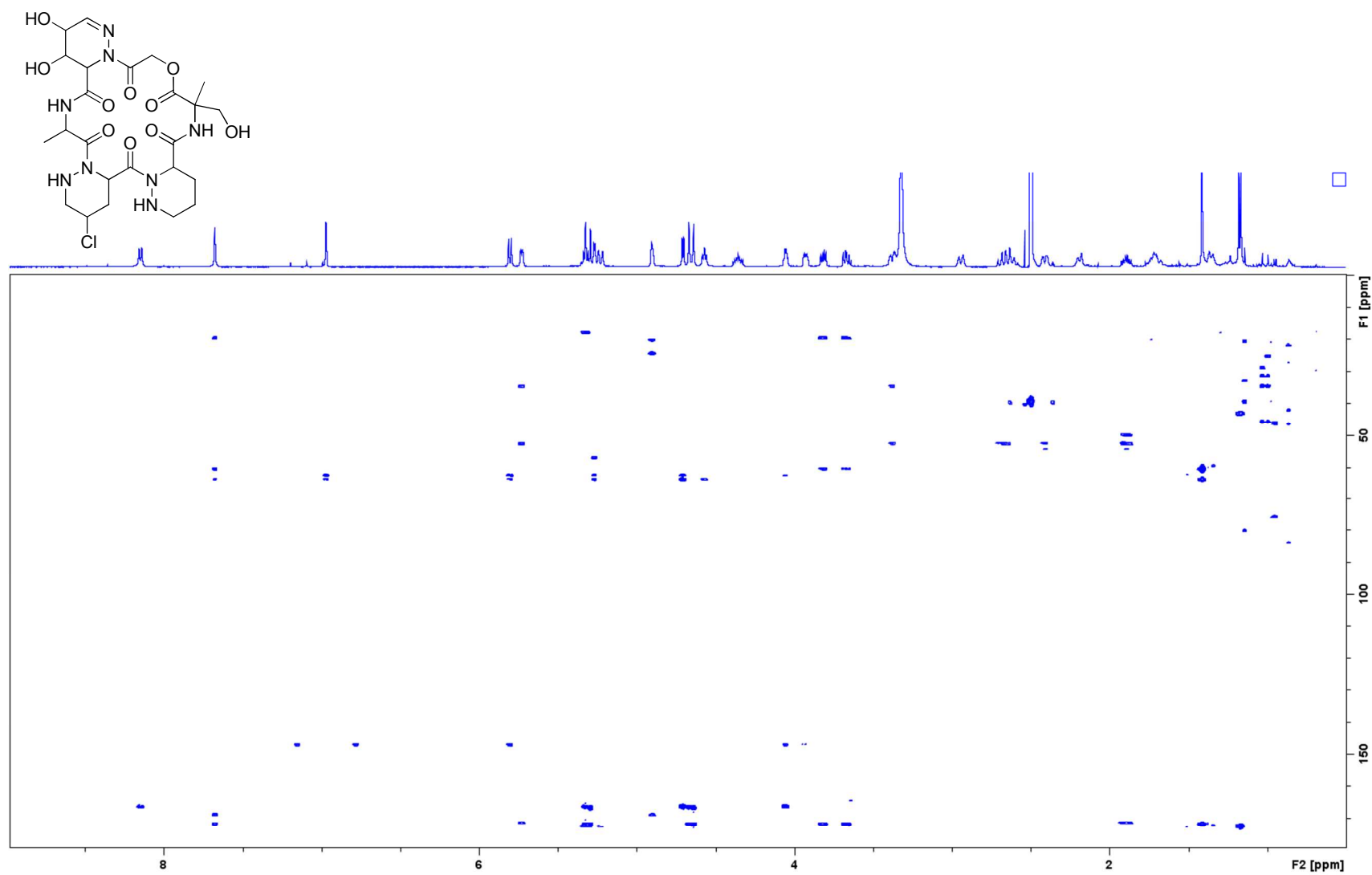


Figure S6. ^1H , ^{13}C HMBC (500 MHz, $\text{DMSO-}d_6$) spectrum of **1**

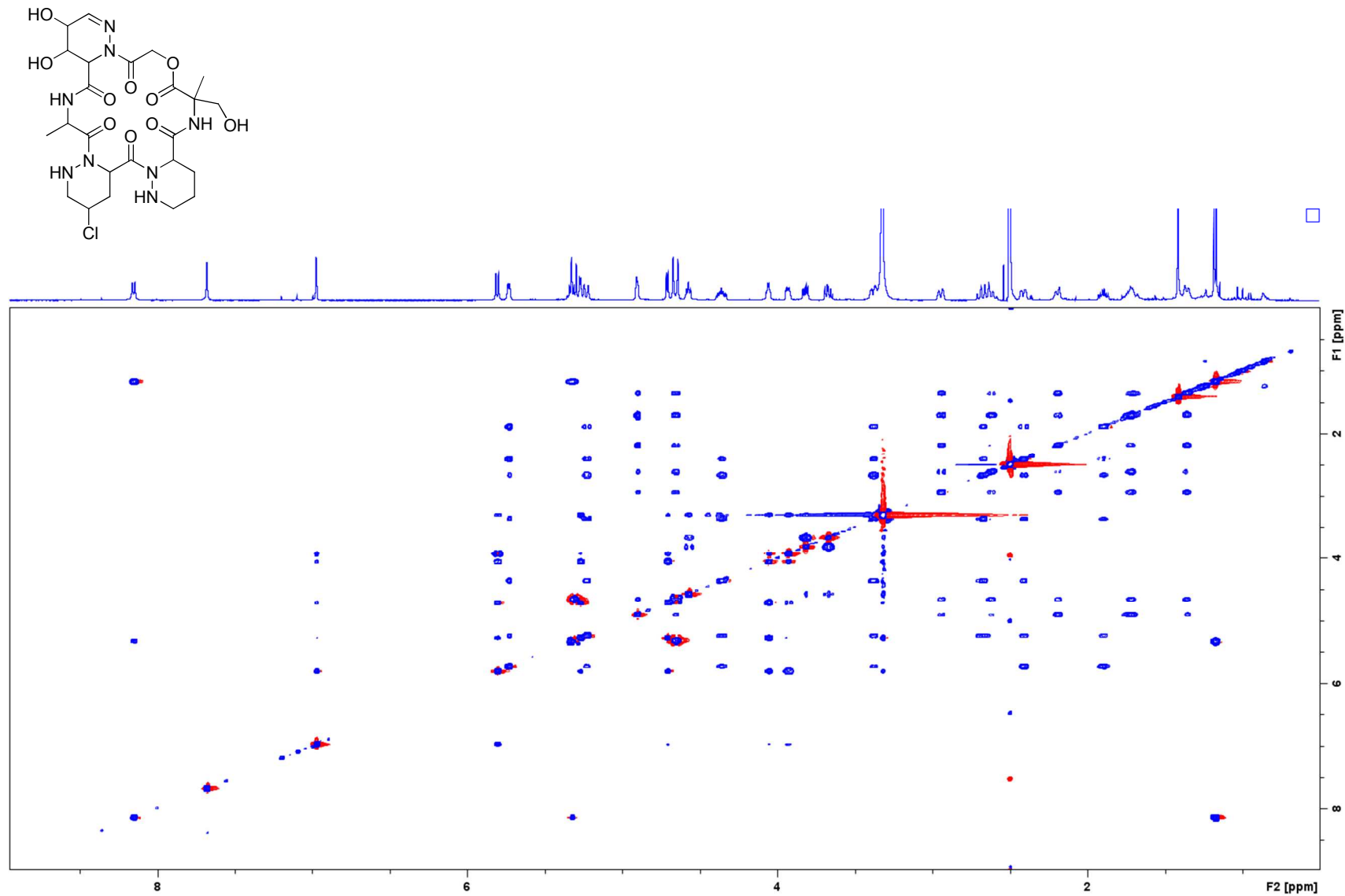


Figure S7. ^1H , ^1H TOCSY (500 MHz, DMSO- d_6) spectrum of **1**

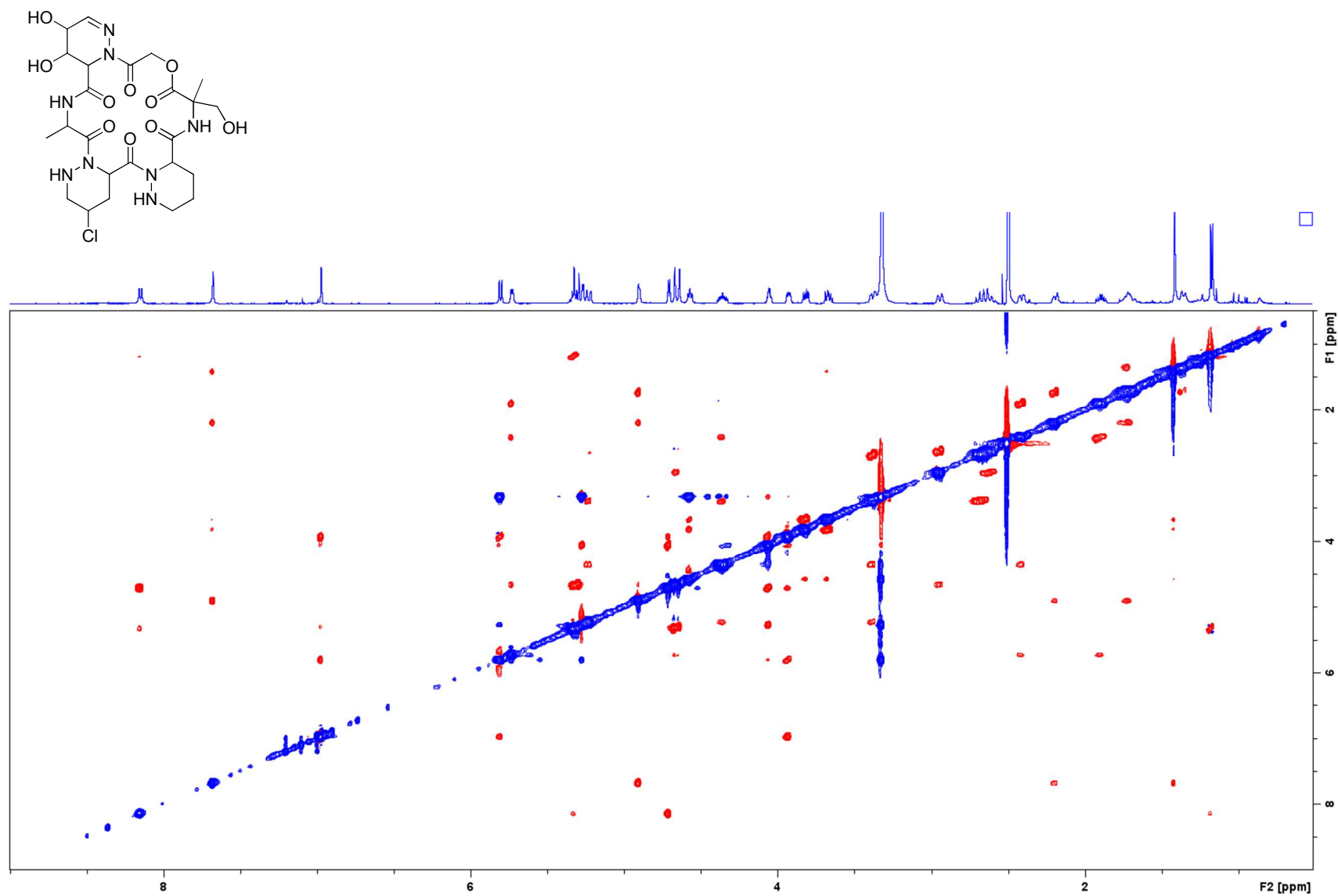


Figure S 8. ^1H , ^1H ROESY (500 MHz, $\text{DMSO}-d_6$) spectrum of **1**

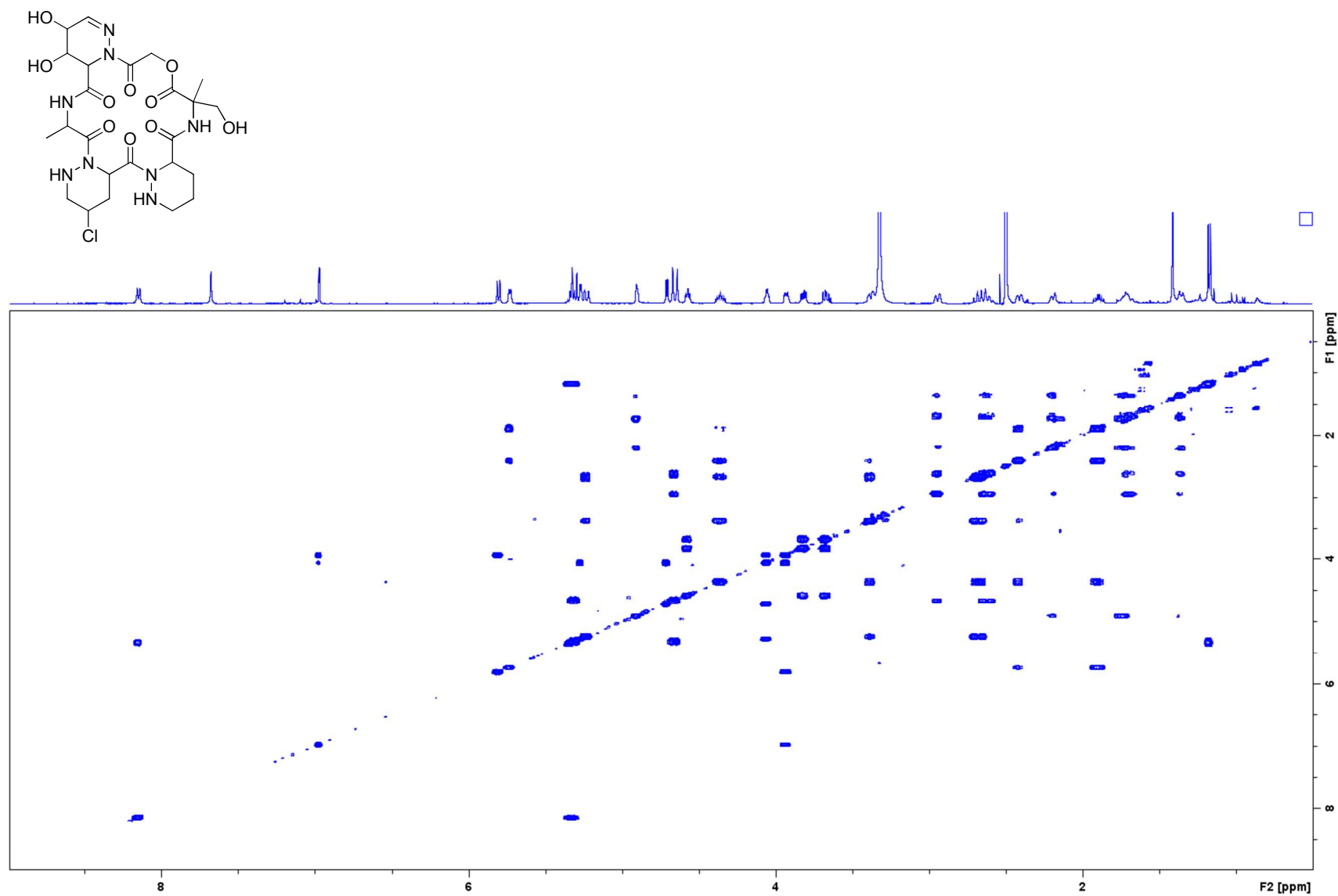


Figure S 9. ^1H , ^1H COSY (500 MHz, $\text{DMSO}-d_6$) spectrum of **1**

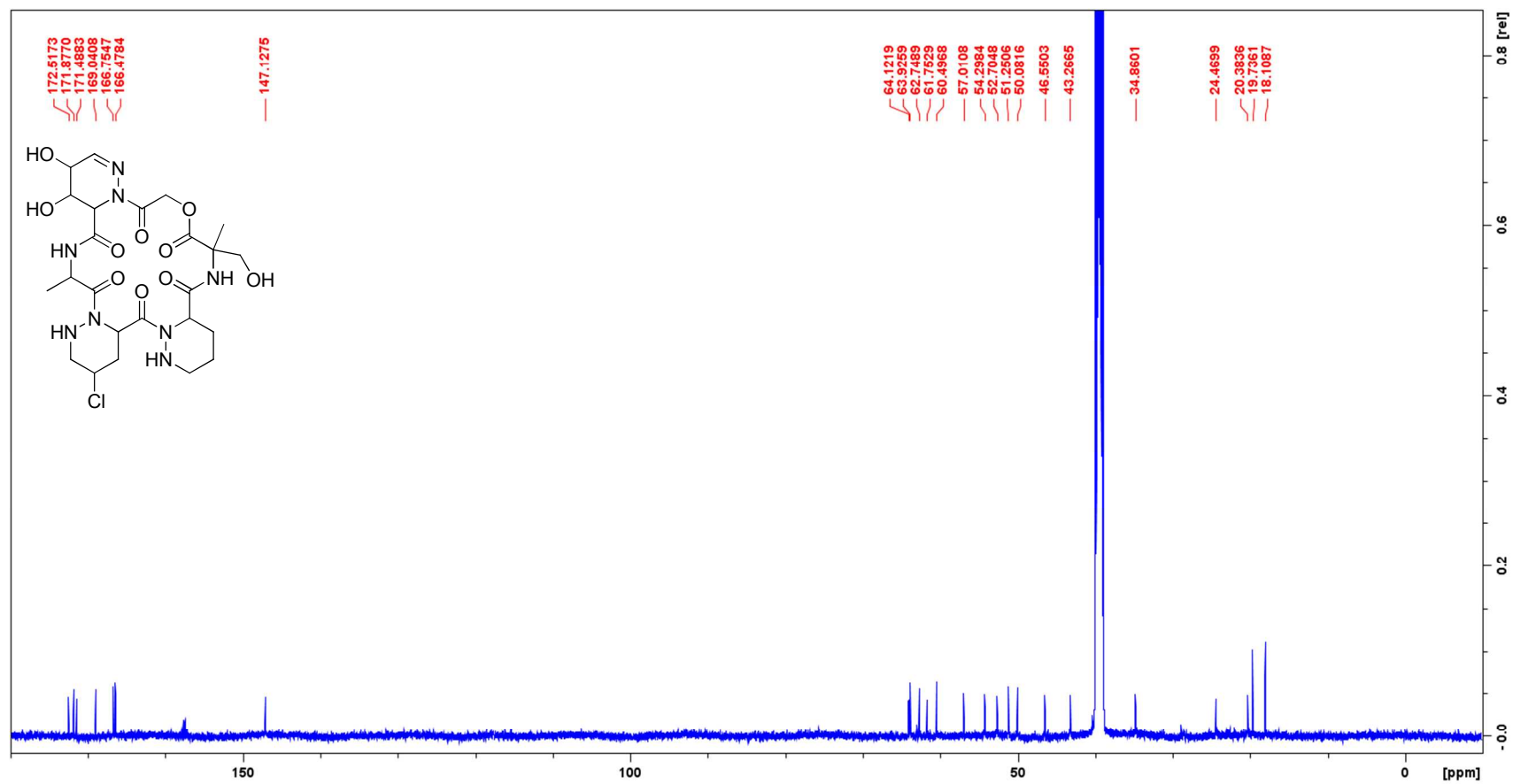


Figure S 10. ¹³C NMR (500 MHz, DMSO-*d*₆) spectrum of **1**

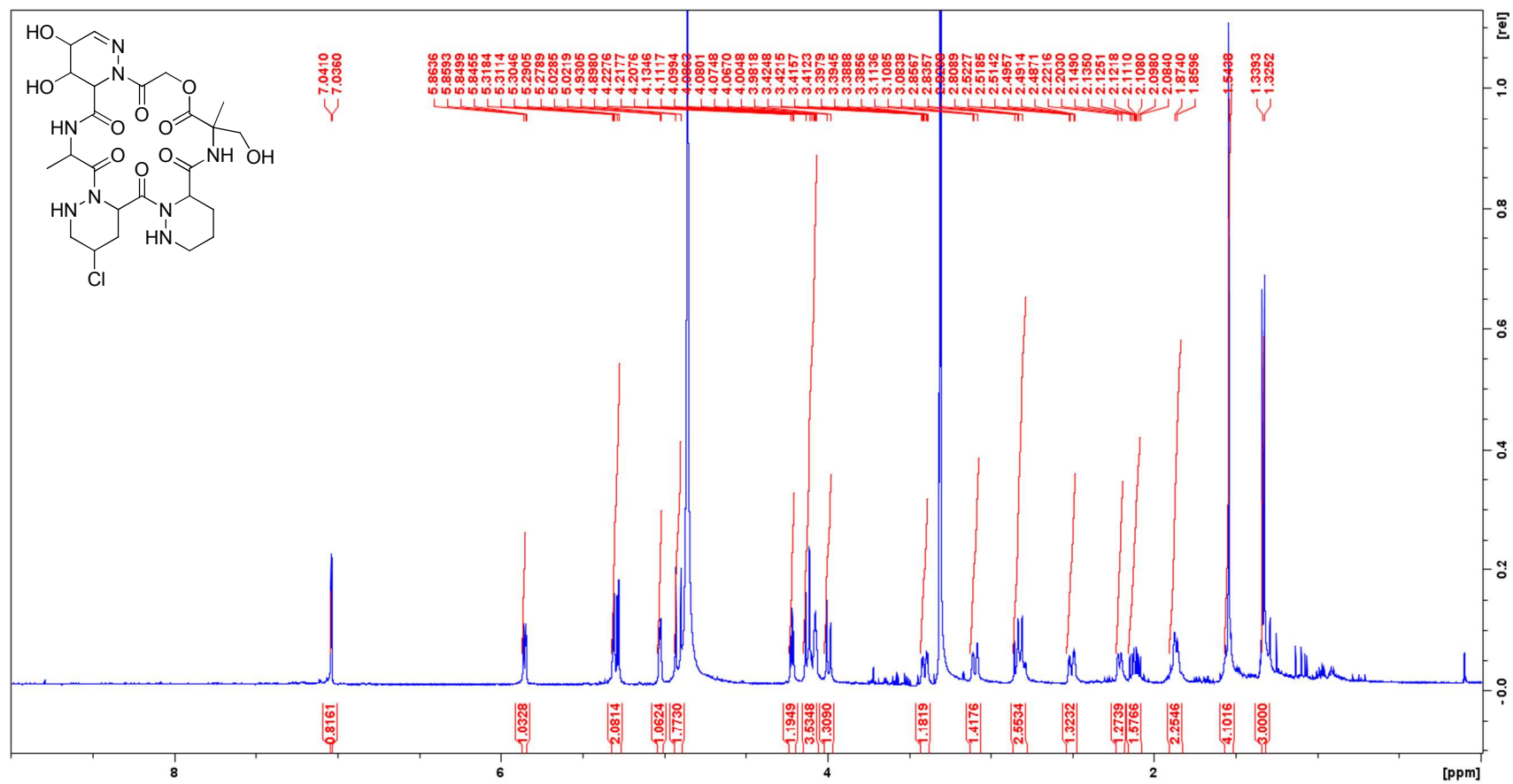


Figure S 11. ¹H NMR (500 MHz, CD₃OD) spectrum of **1** (impurities are not peak picked)

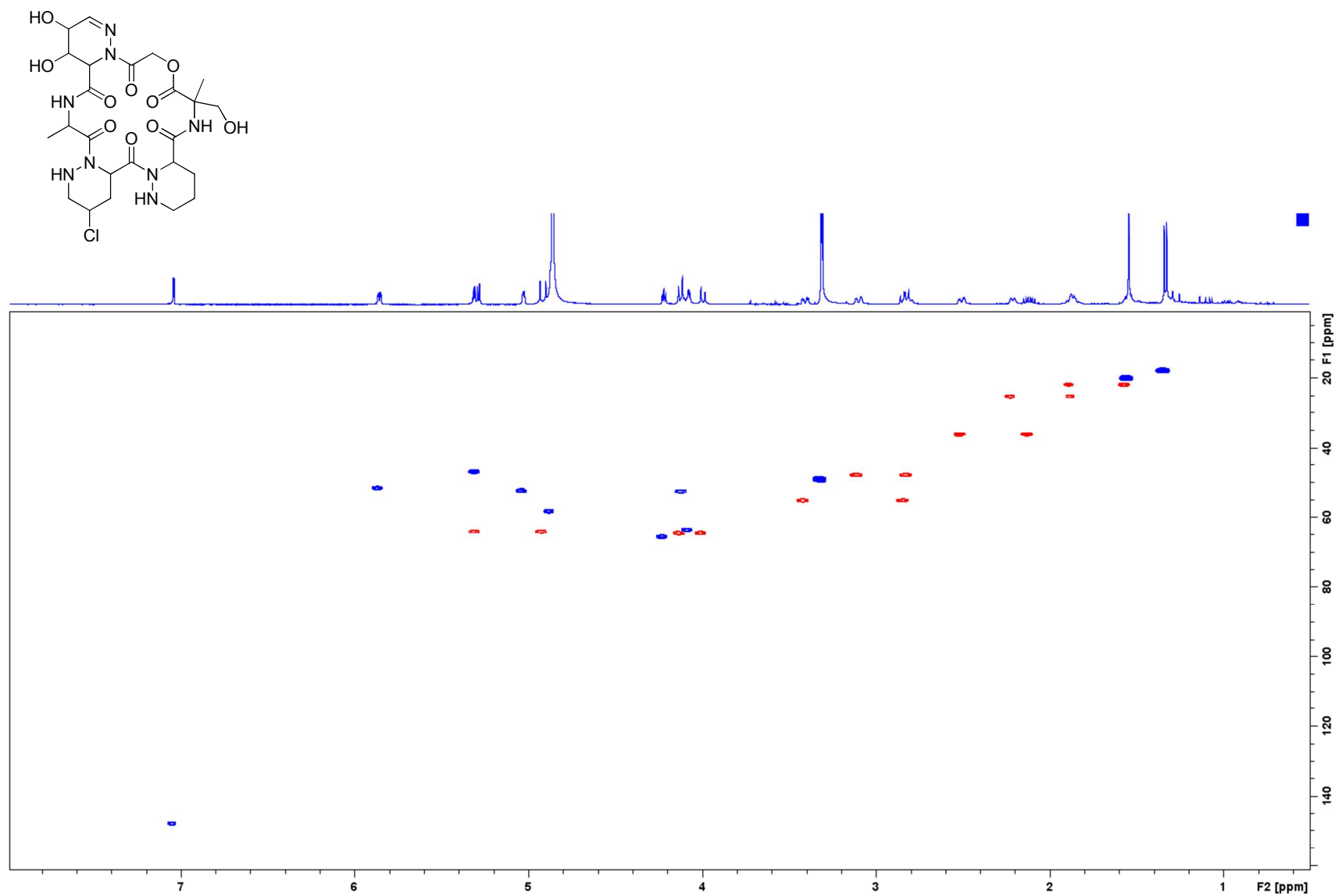


Figure S 12. ^1H , ^{13}C HSQC (500 MHz, CD_3OD) spectrum of **1**

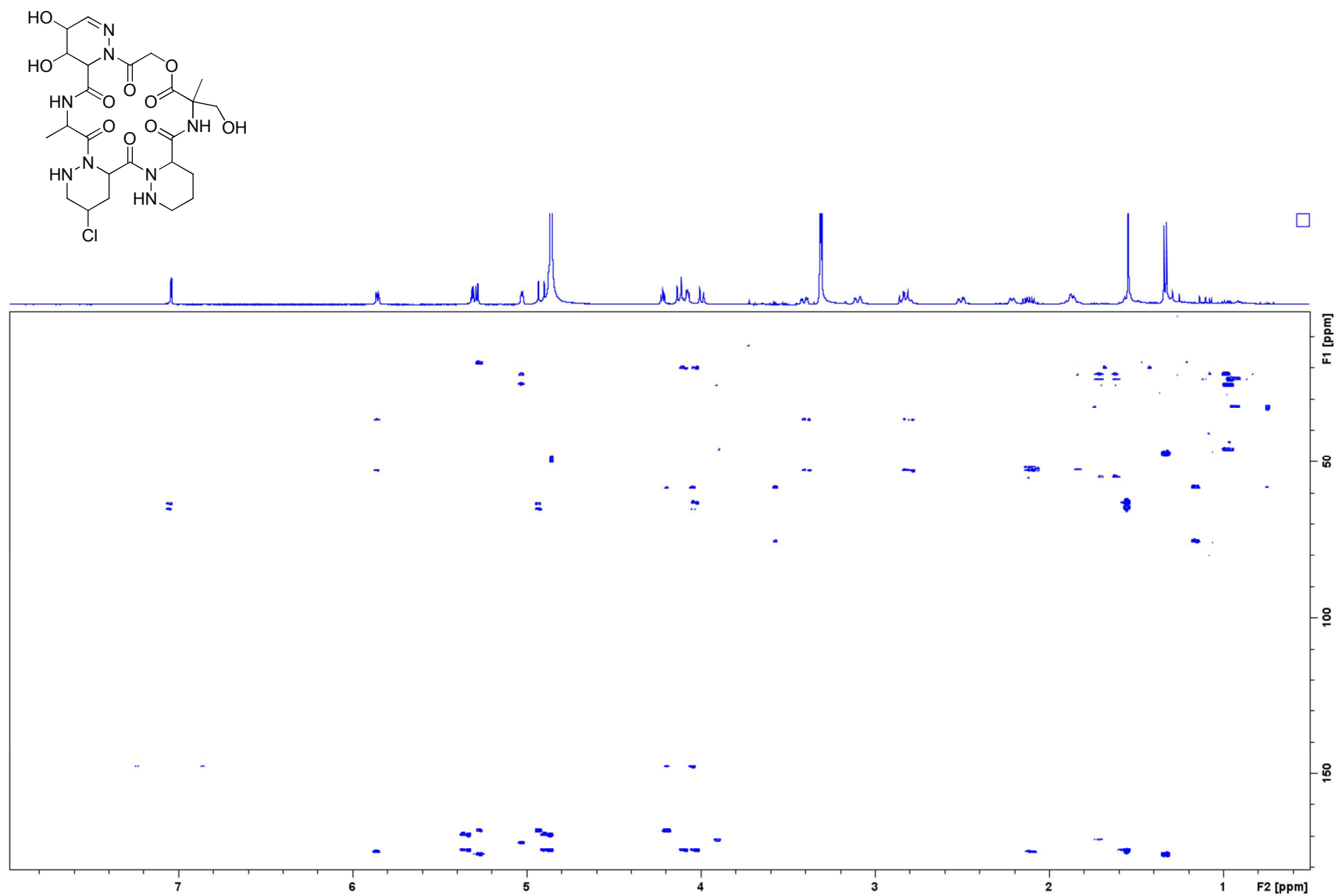


Figure S 13. ^1H , ^{13}C HMBC (500 MHz, CD_3OD) spectrum of **1** (from another batch of **1**)

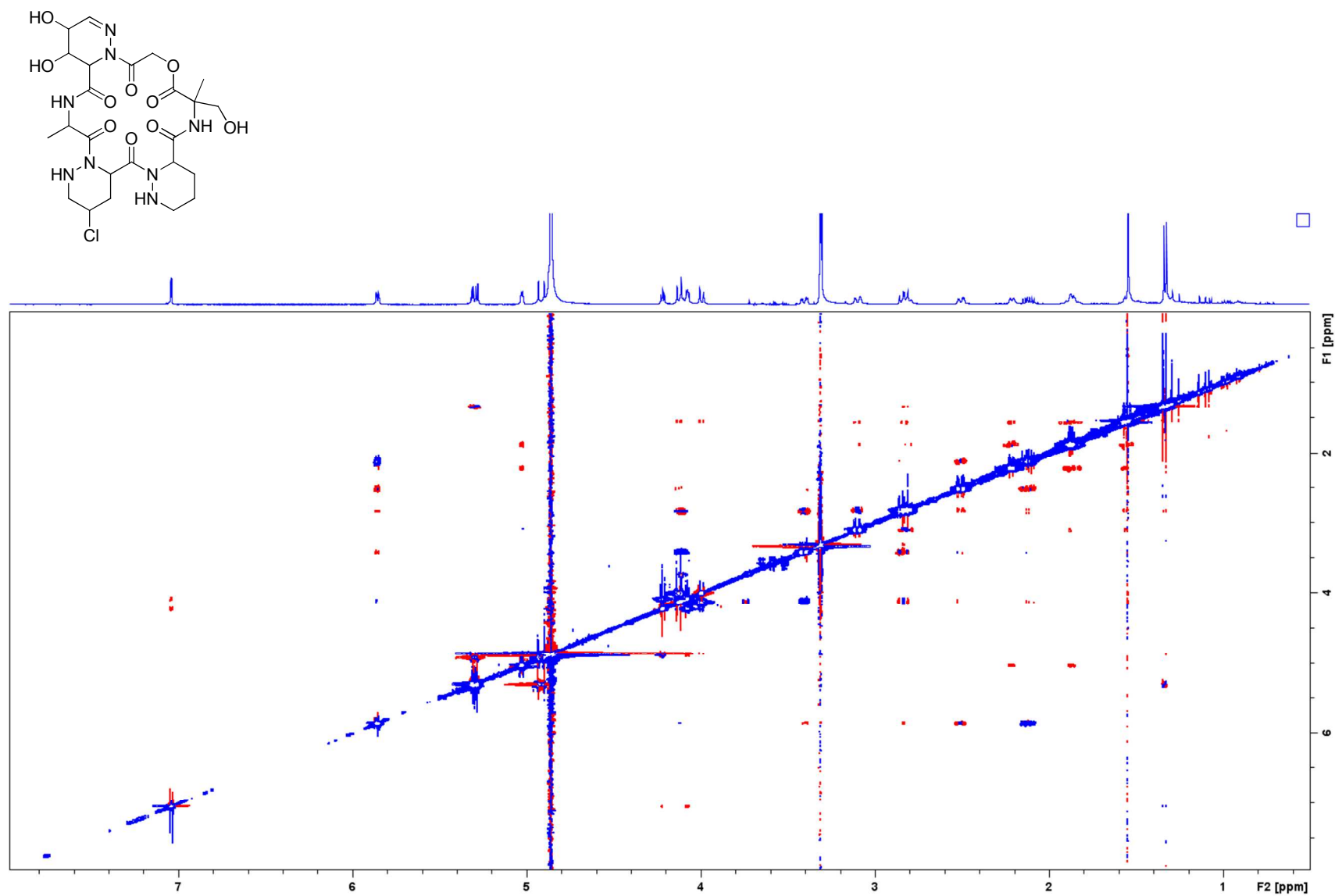


Figure S 14. ^1H , ^1H ROESY (500 MHz, CD_3OD) spectrum of **1**

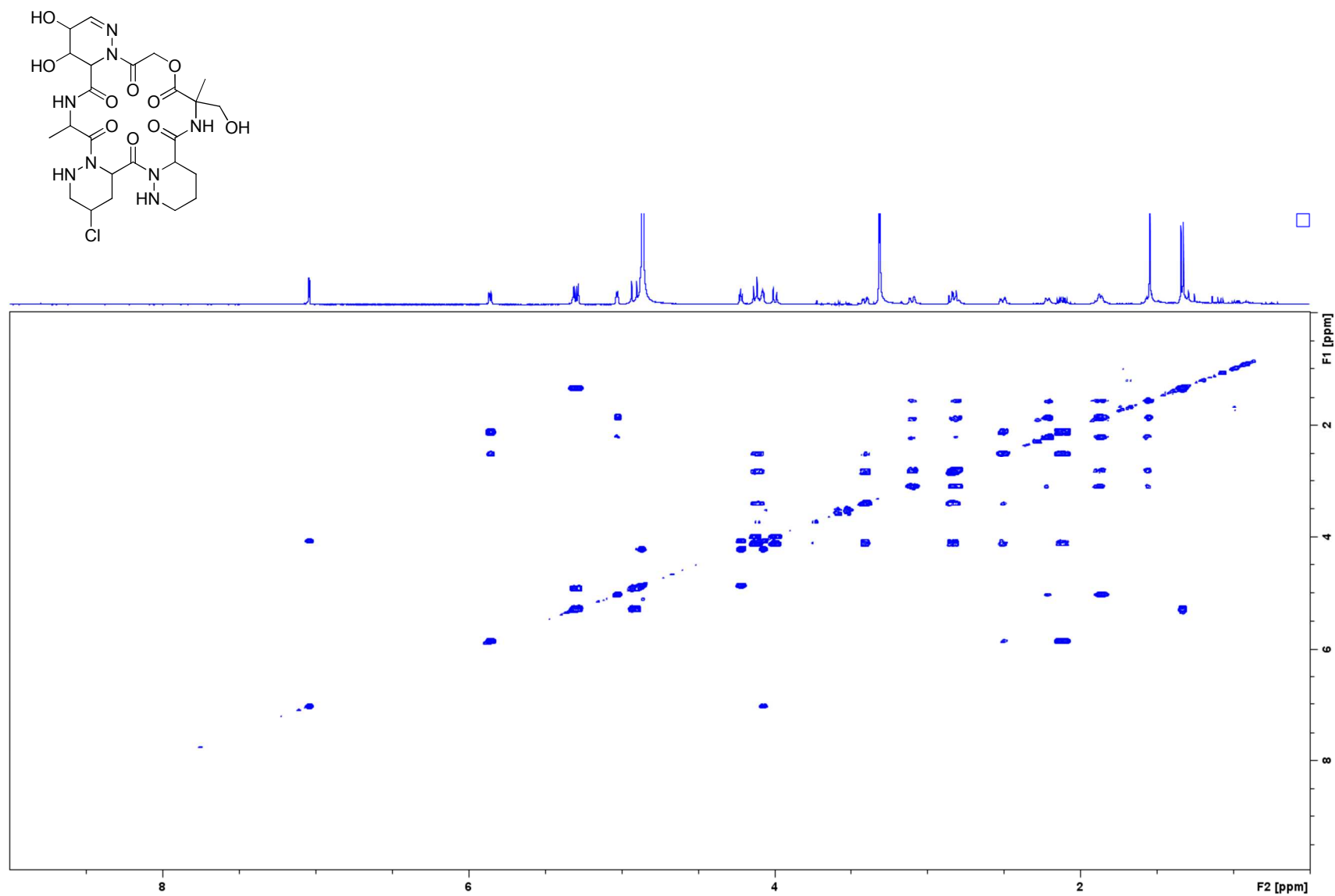


Figure S 15. ^1H , ^1H COSY (500 MHz, CD_3OD) spectrum of **1**

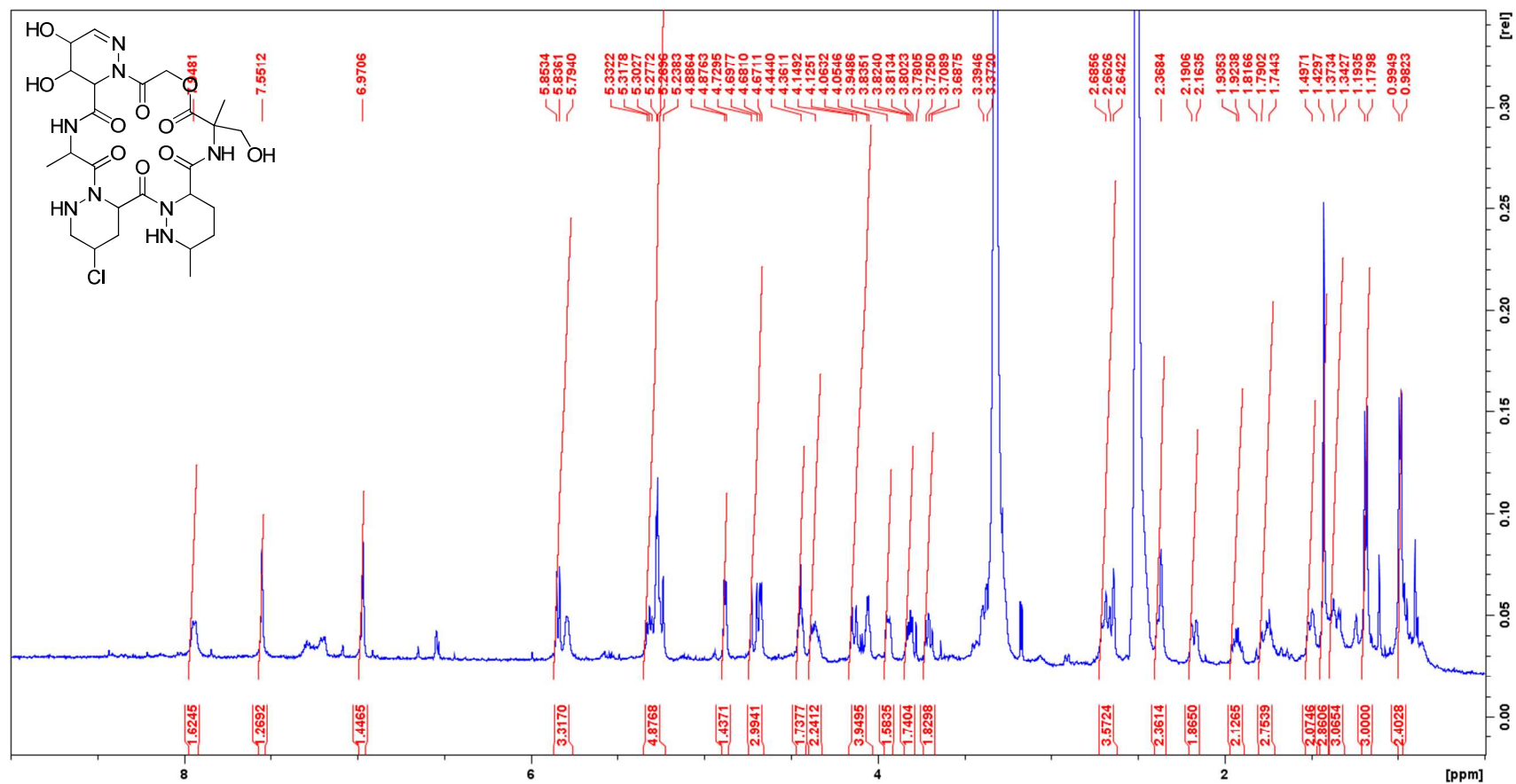


Figure S 16. ¹H NMR (500 MHz, DMSO-*d*₆) spectrum of 2 (impurities are not peak picked)

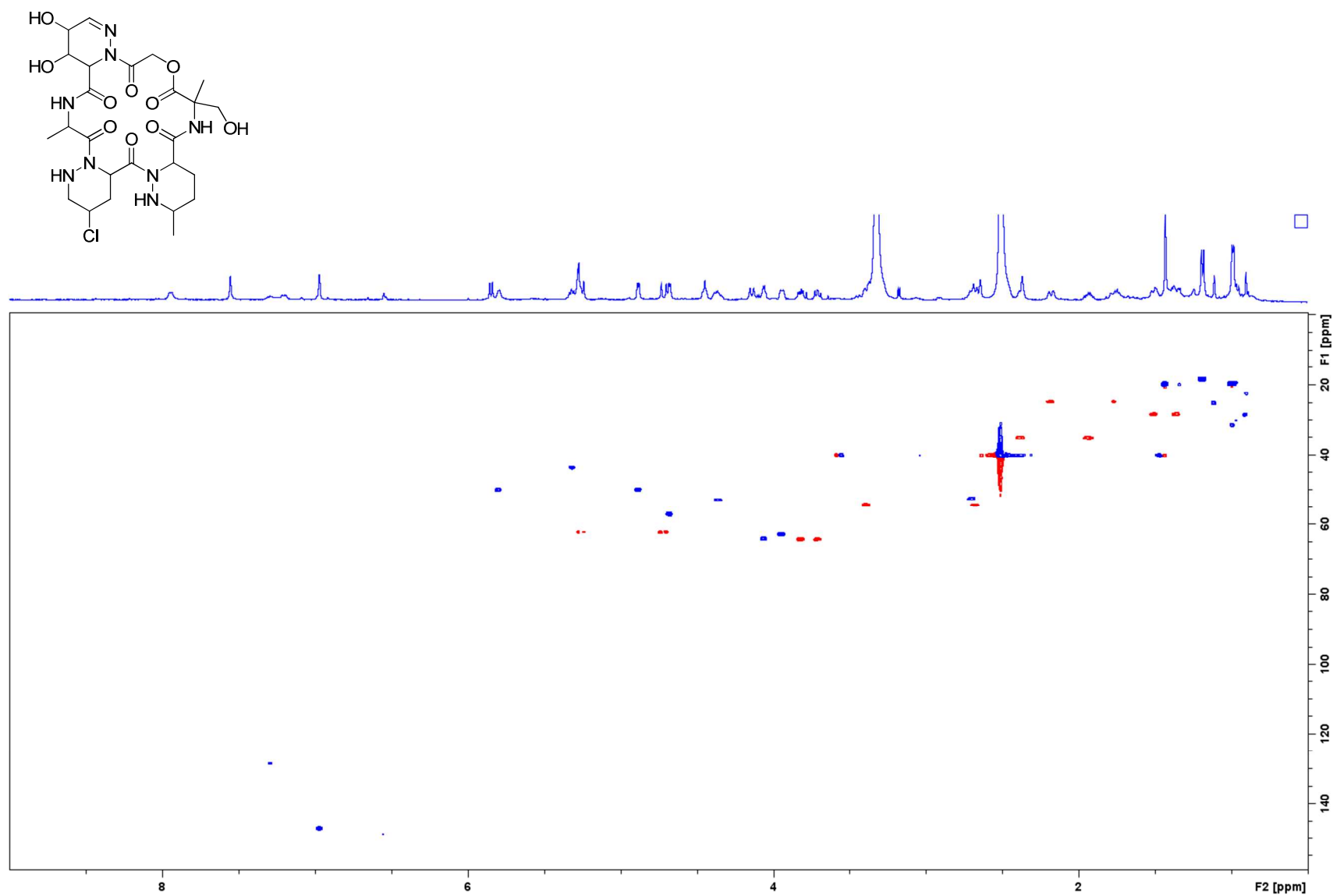


Figure S 17. ^1H , ^{13}C HSQC (500 MHz, DMSO-*d*₆) spectrum of **2**

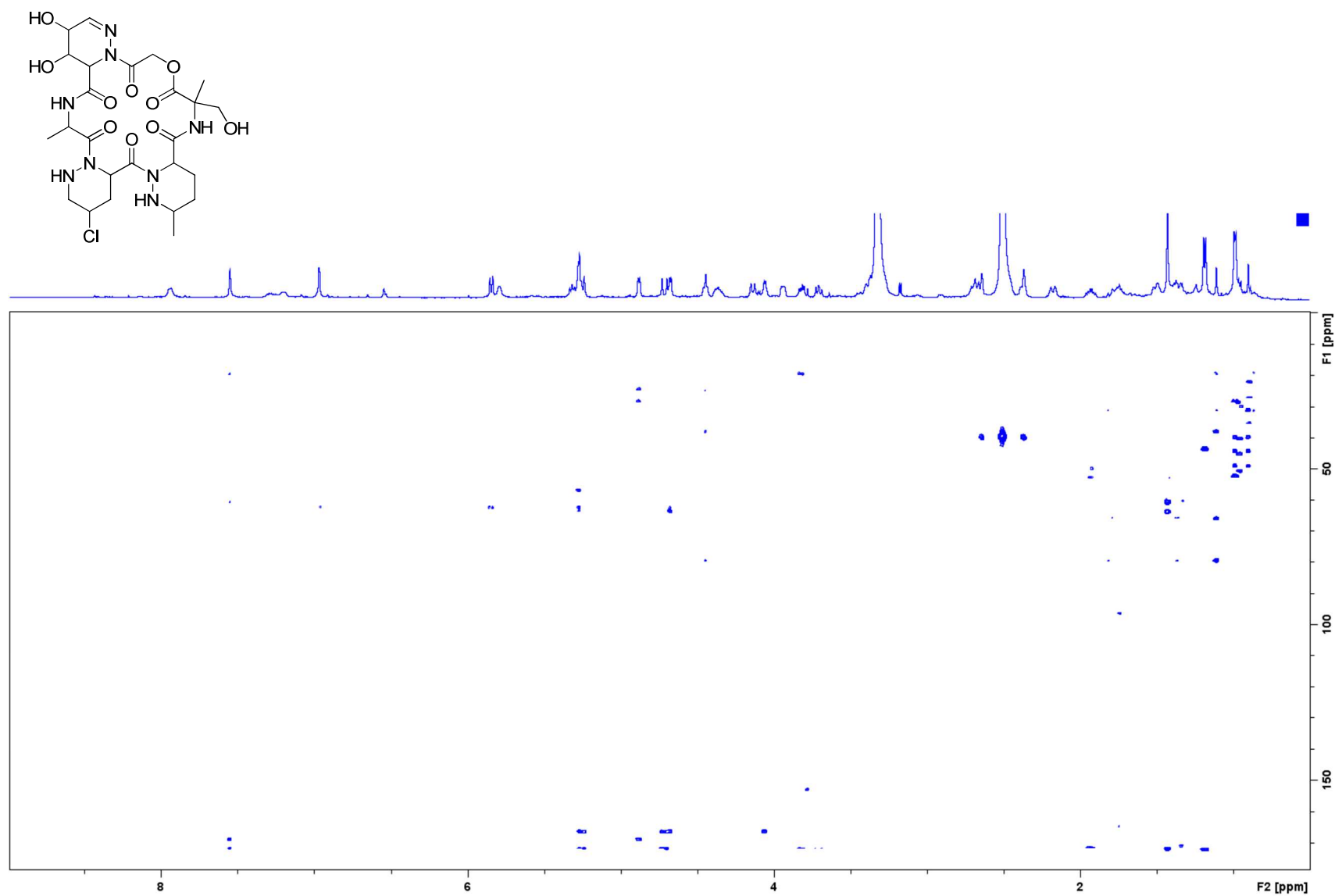


Figure S 18. ^1H , ^{13}C HMBC (500 MHz, $\text{DMSO-}d_6$) spectrum of **2**

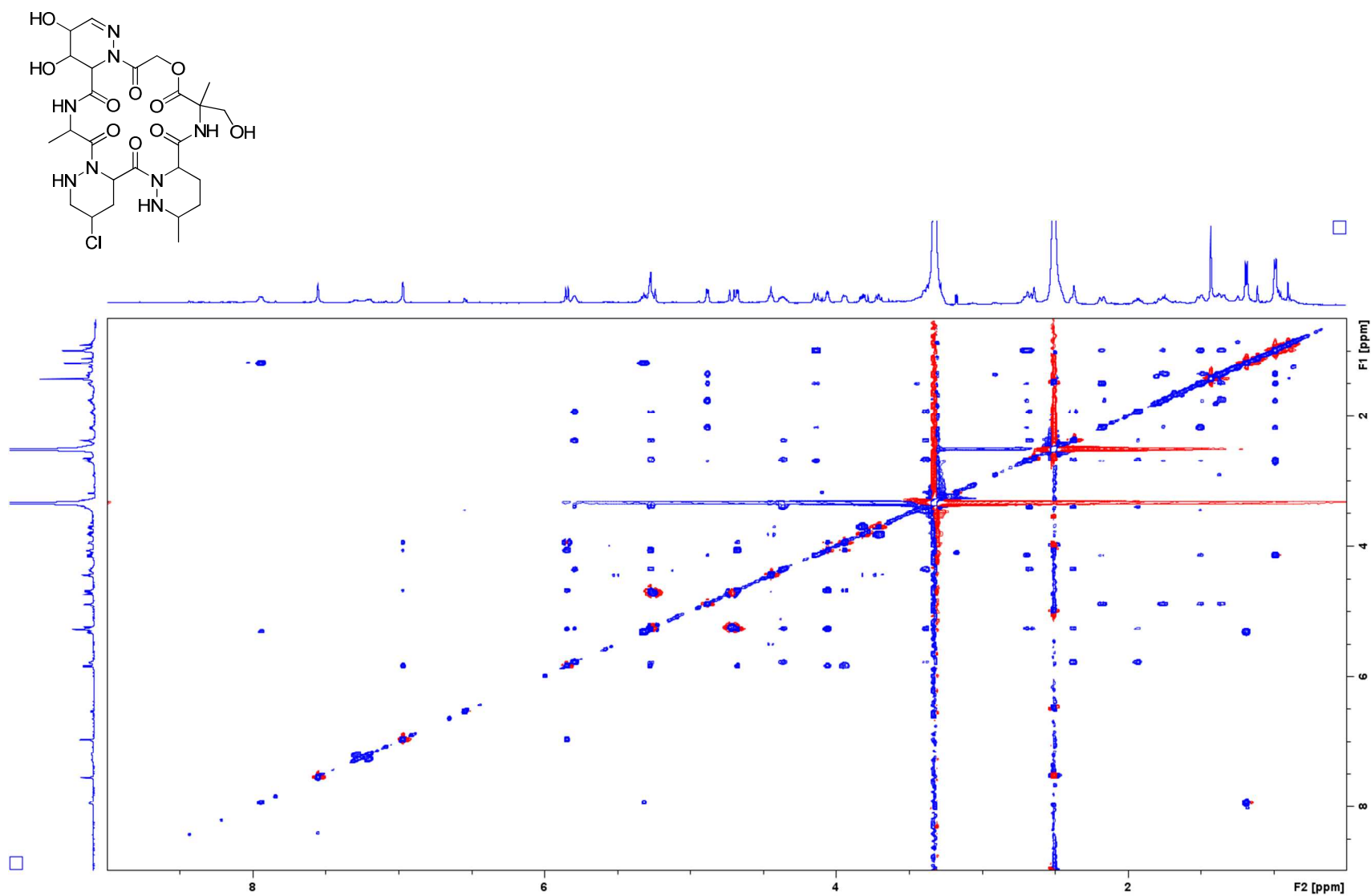


Figure S 19. ^1H , ^1H TOCSY (500 MHz, $\text{DMSO}-d_6$) spectrum of **2**

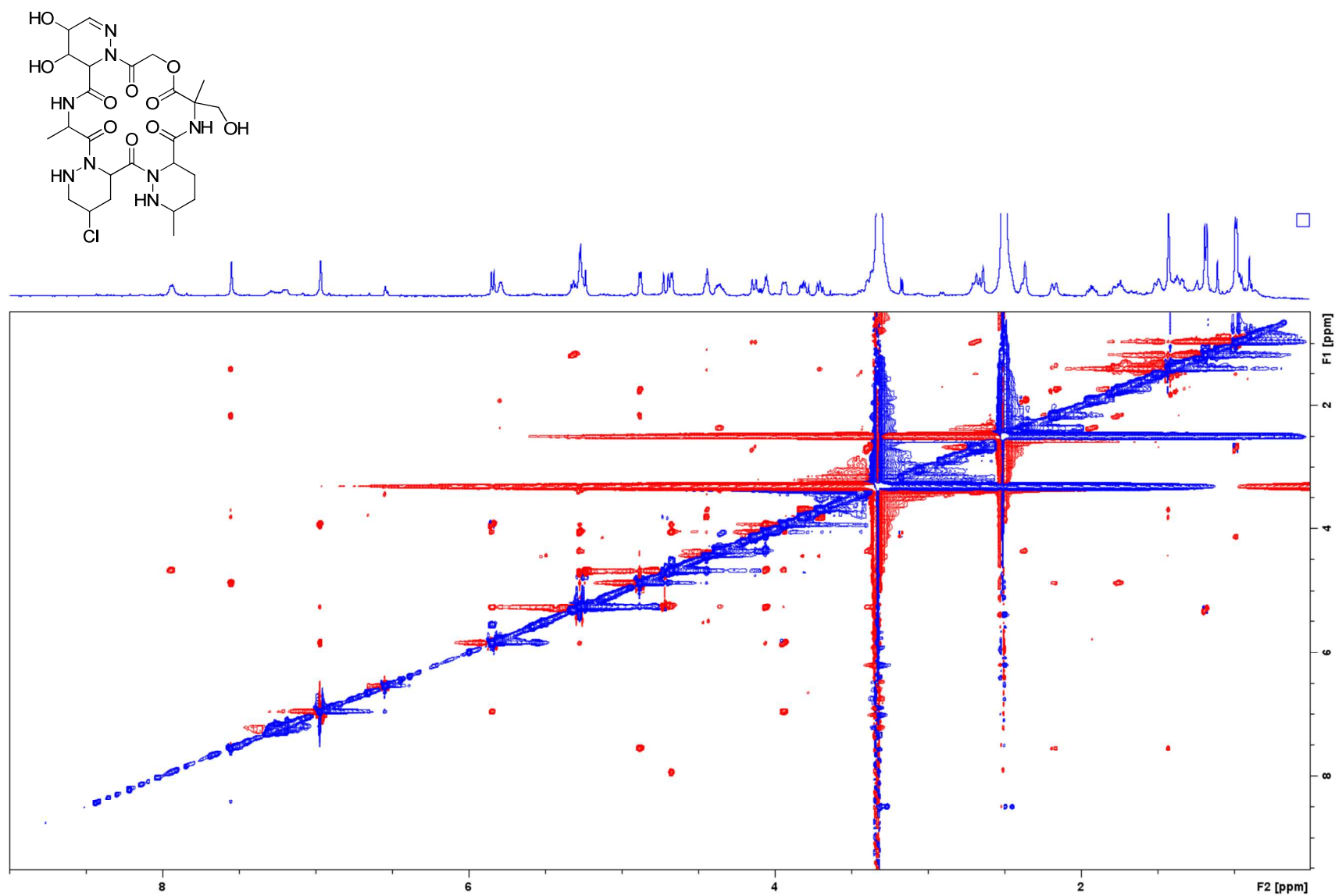


Figure S 20. ^1H , ^1H ROESY (500 MHz, $\text{DMSO}-d_6$) spectrum of **2**

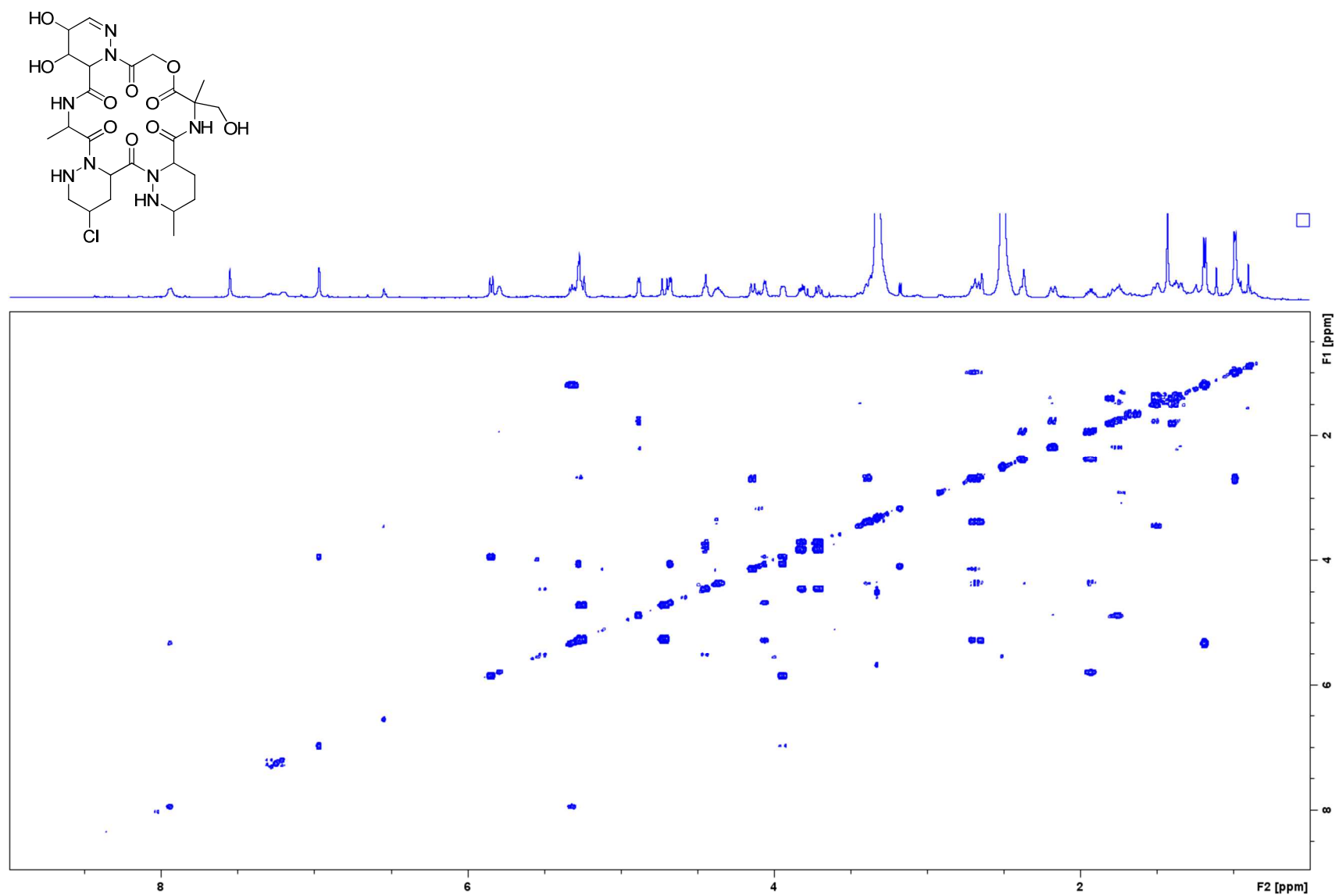


Figure S 21. ^1H , ^1H COSY (500 MHz, $\text{DMSO-}d_6$) spectrum of **2**

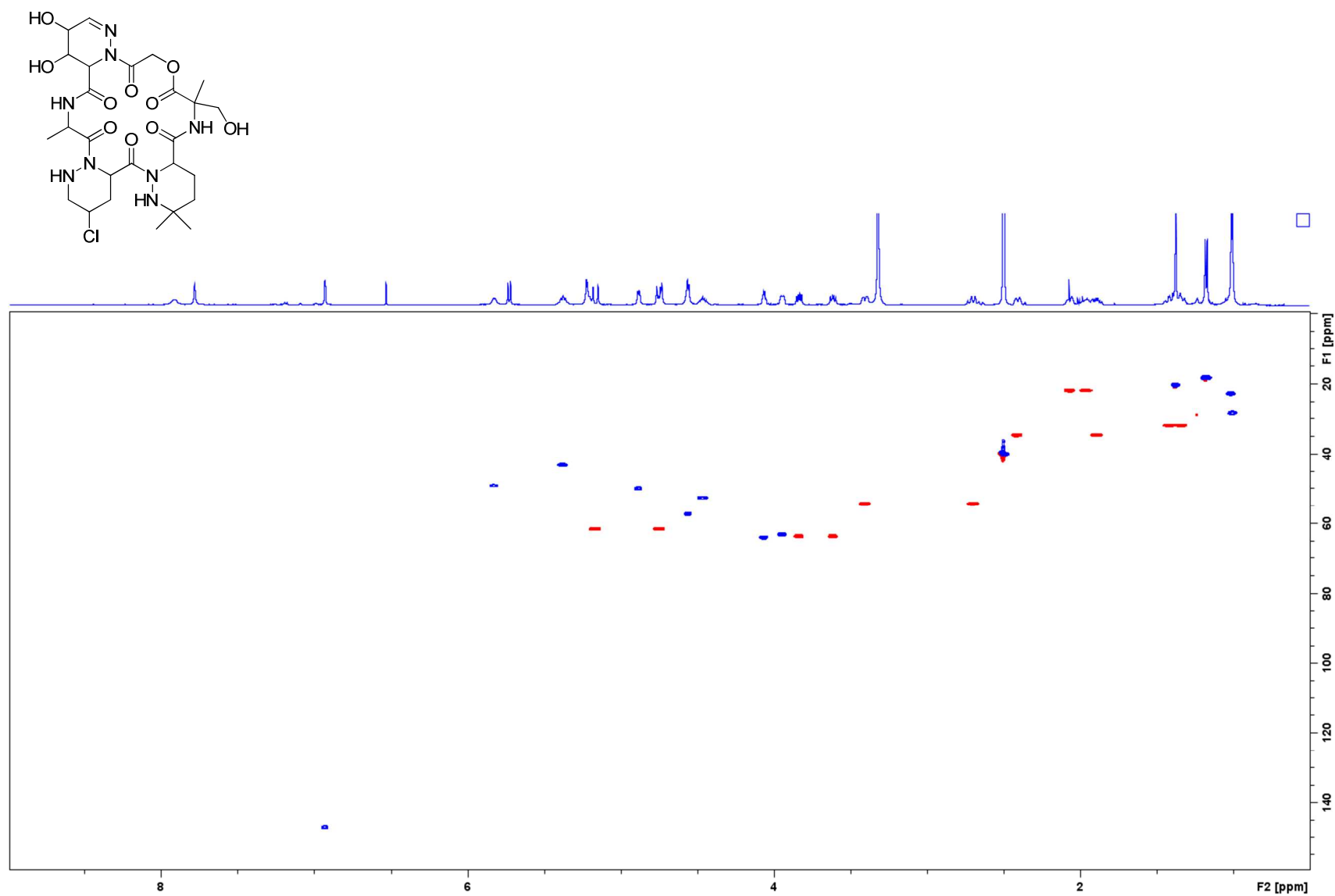


Figure S 23. ^1H , ^{13}C HSQC (500 MHz, $\text{DMSO-}d_6$) spectrum of **3**

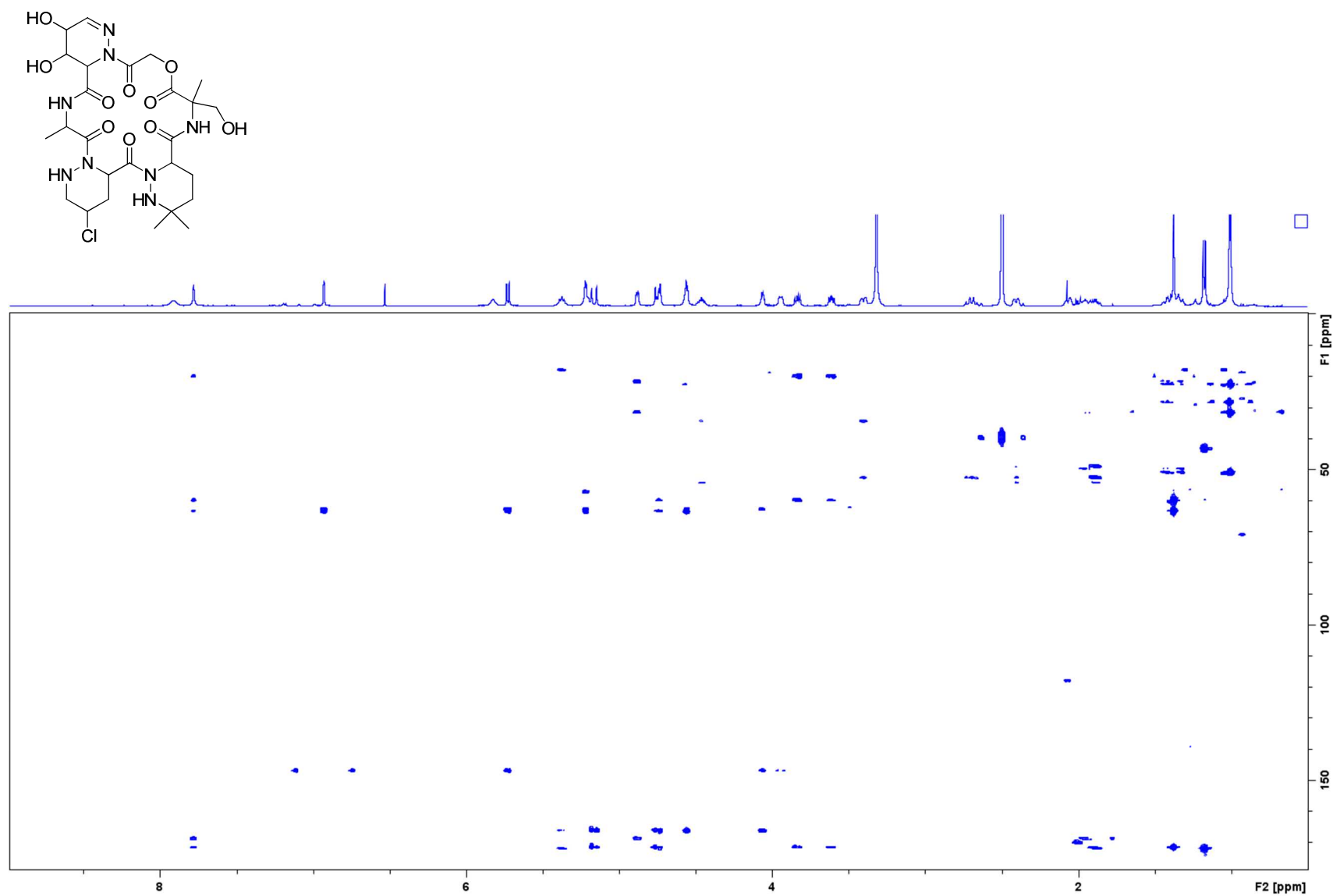


Figure S 24. ^1H , ^{13}C HMBC (500 MHz, $\text{DMSO-}d_6$) spectrum of **3**

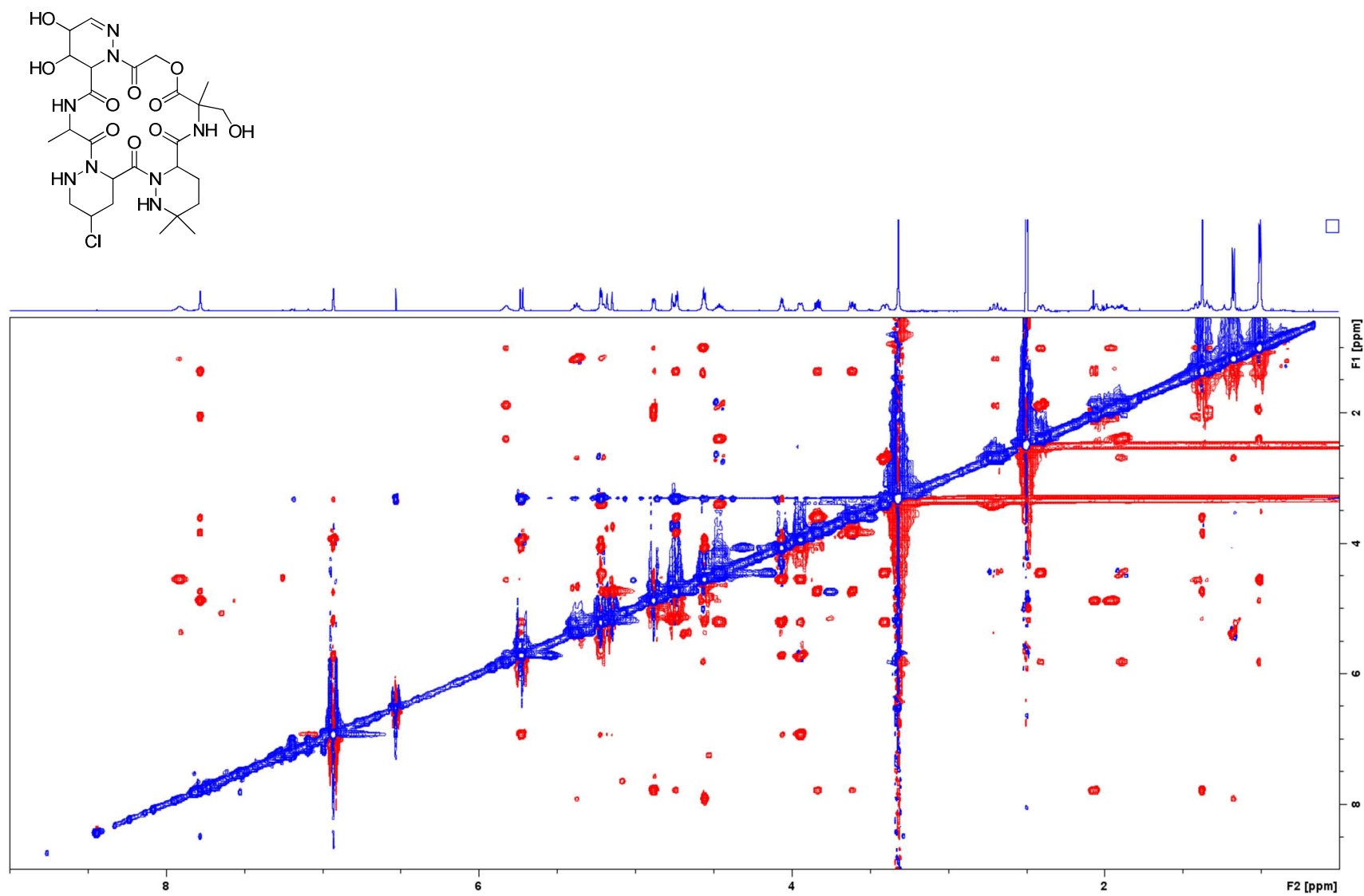


Figure S 25. ^1H , ^1H ROESY (500 MHz, $\text{DMSO}-d_6$) spectrum of **3**

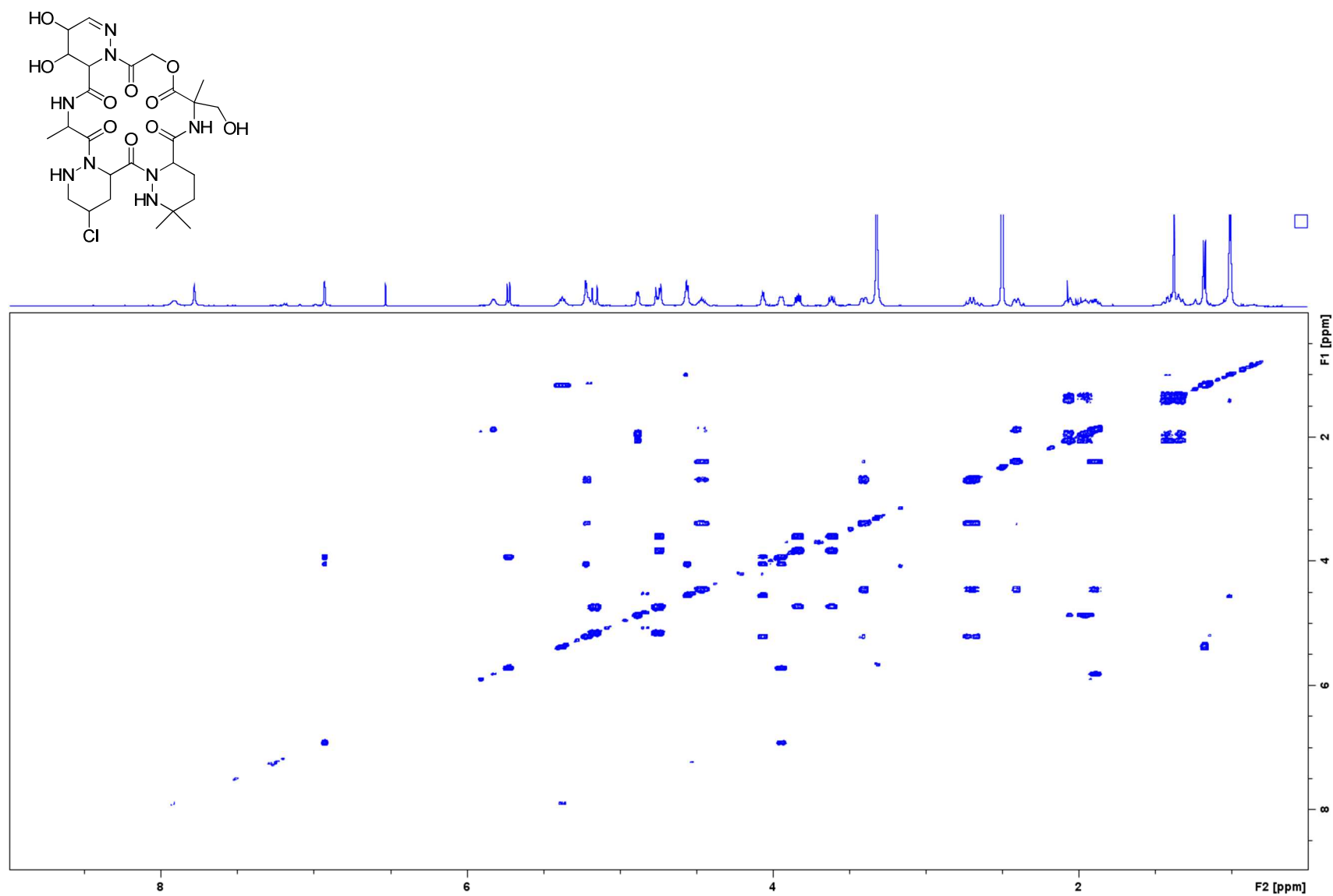


Figure S 26. ^1H , ^1H COSY (500 MHz, $\text{DMSO}-d_6$) spectrum of **3**

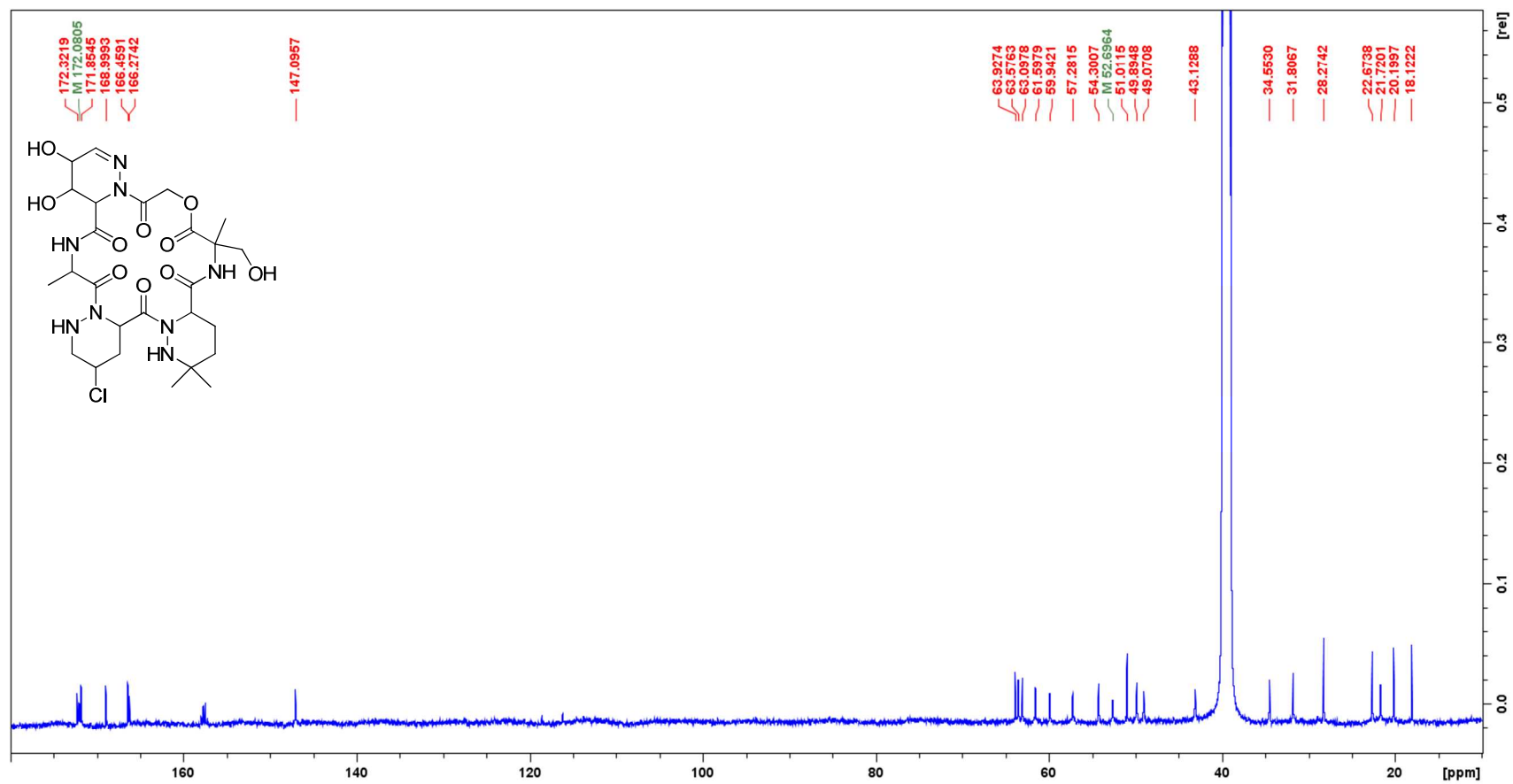


Figure S 27. ^{13}C NMR (500 MHz, DMSO- d_6) spectrum of **3**

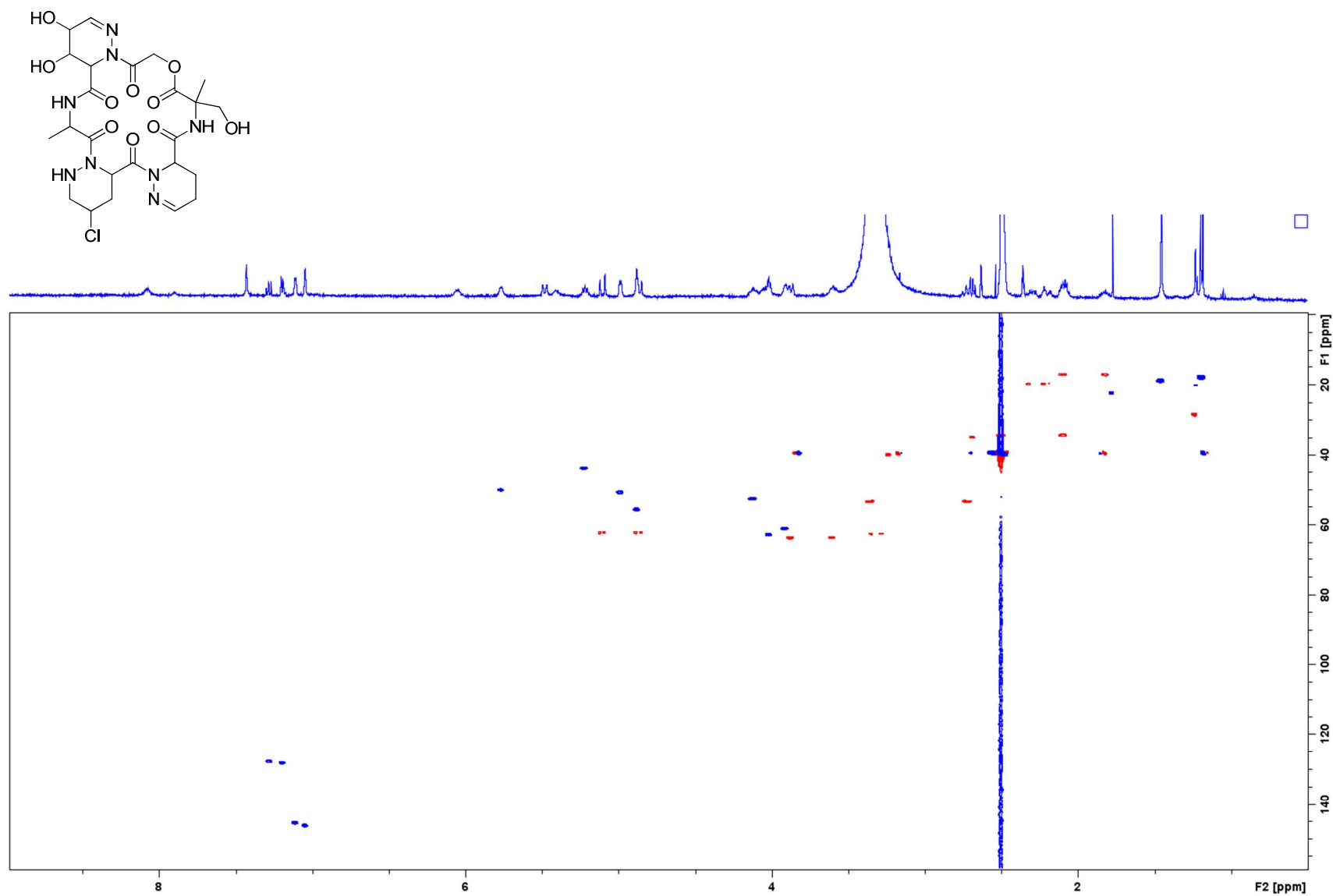


Figure S 29. ^1H , ^{13}C HSQC (500 MHz, $\text{DMSO-}d_6$) spectrum of 4

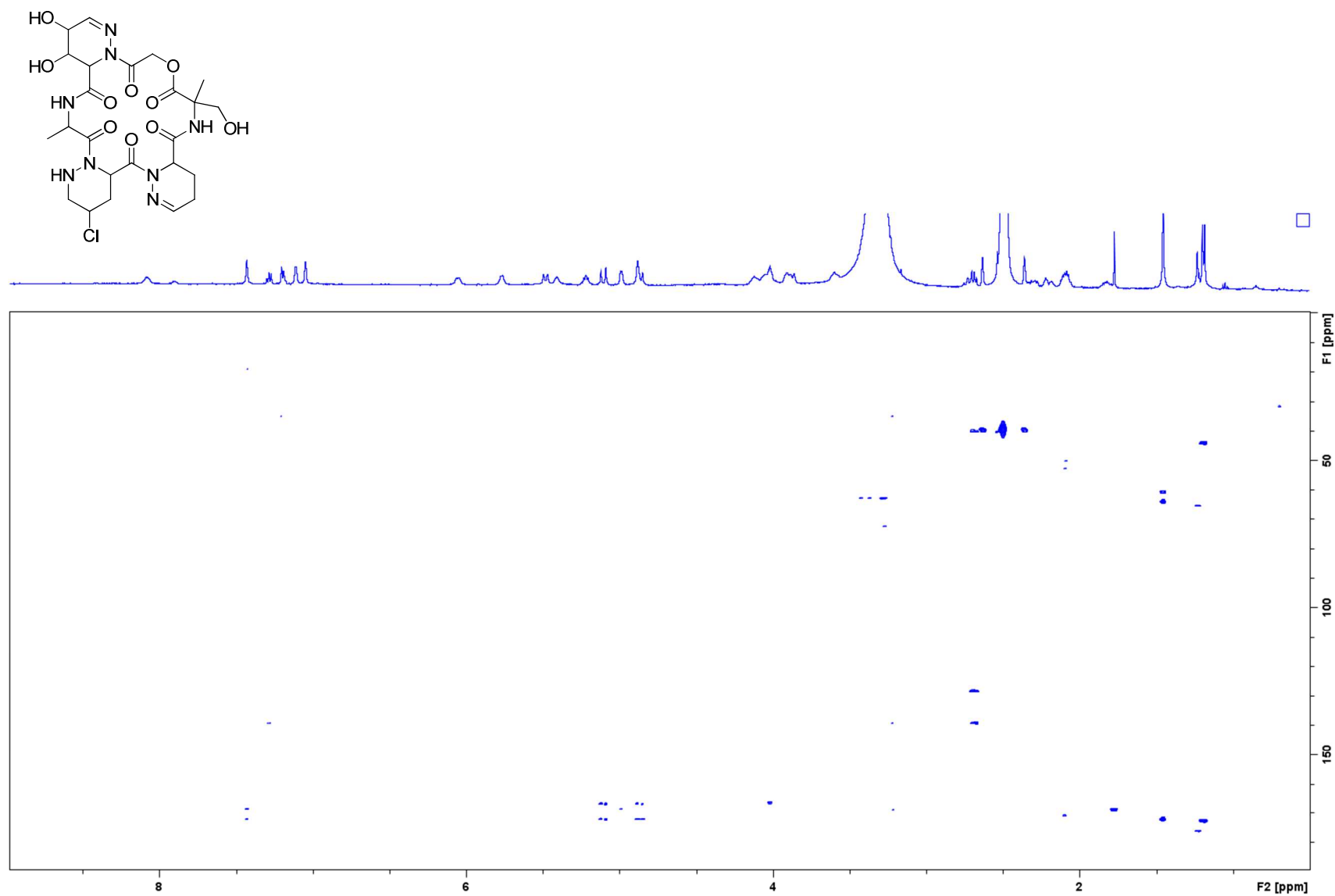


Figure S 30. ^1H , ^{13}C HMBC (500 MHz, $\text{DMSO}-d_6$) spectrum of 4

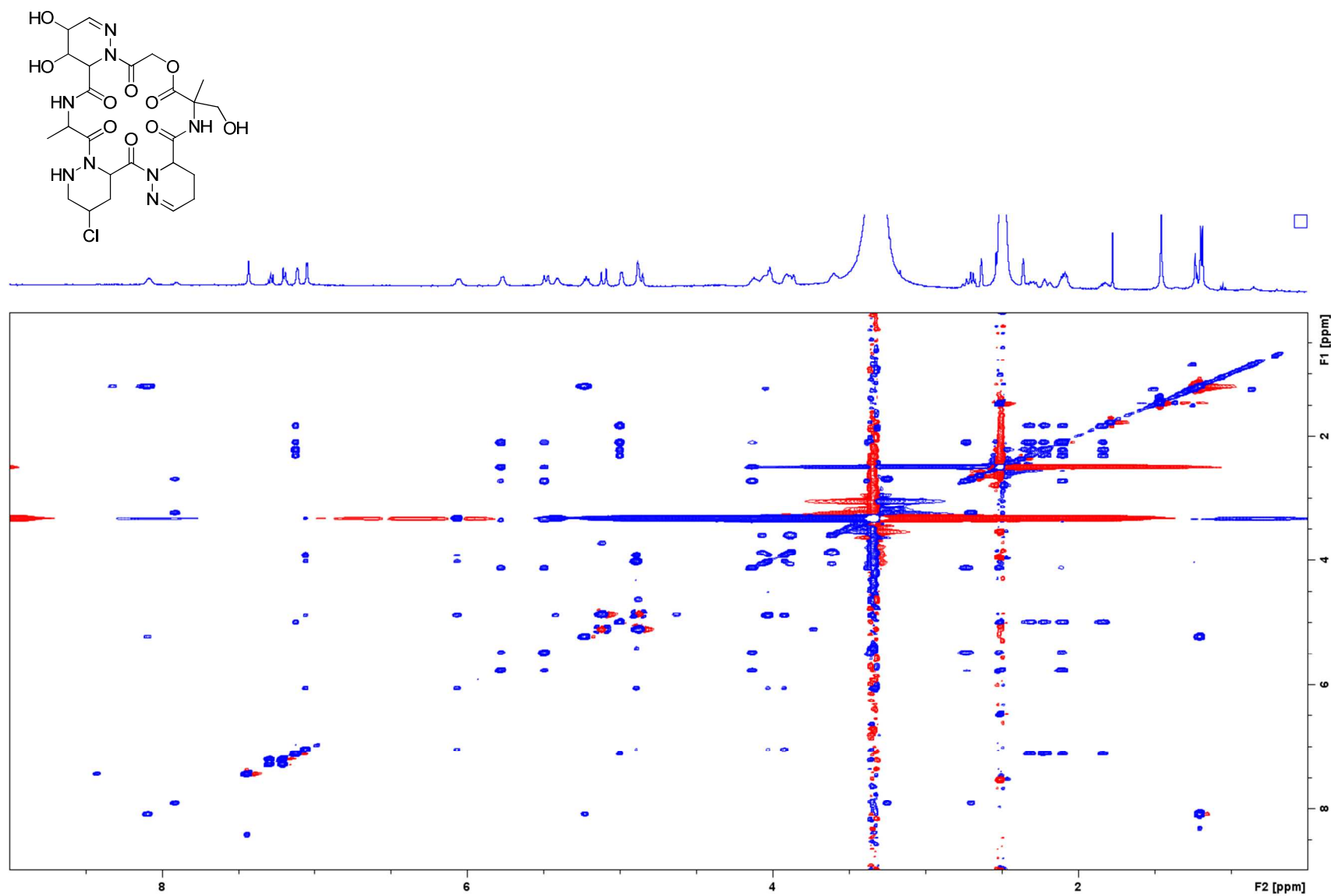


Figure S 31. ^1H , ^1H TOCSY (500 MHz, $\text{DMSO}-d_6$) spectrum of **4**

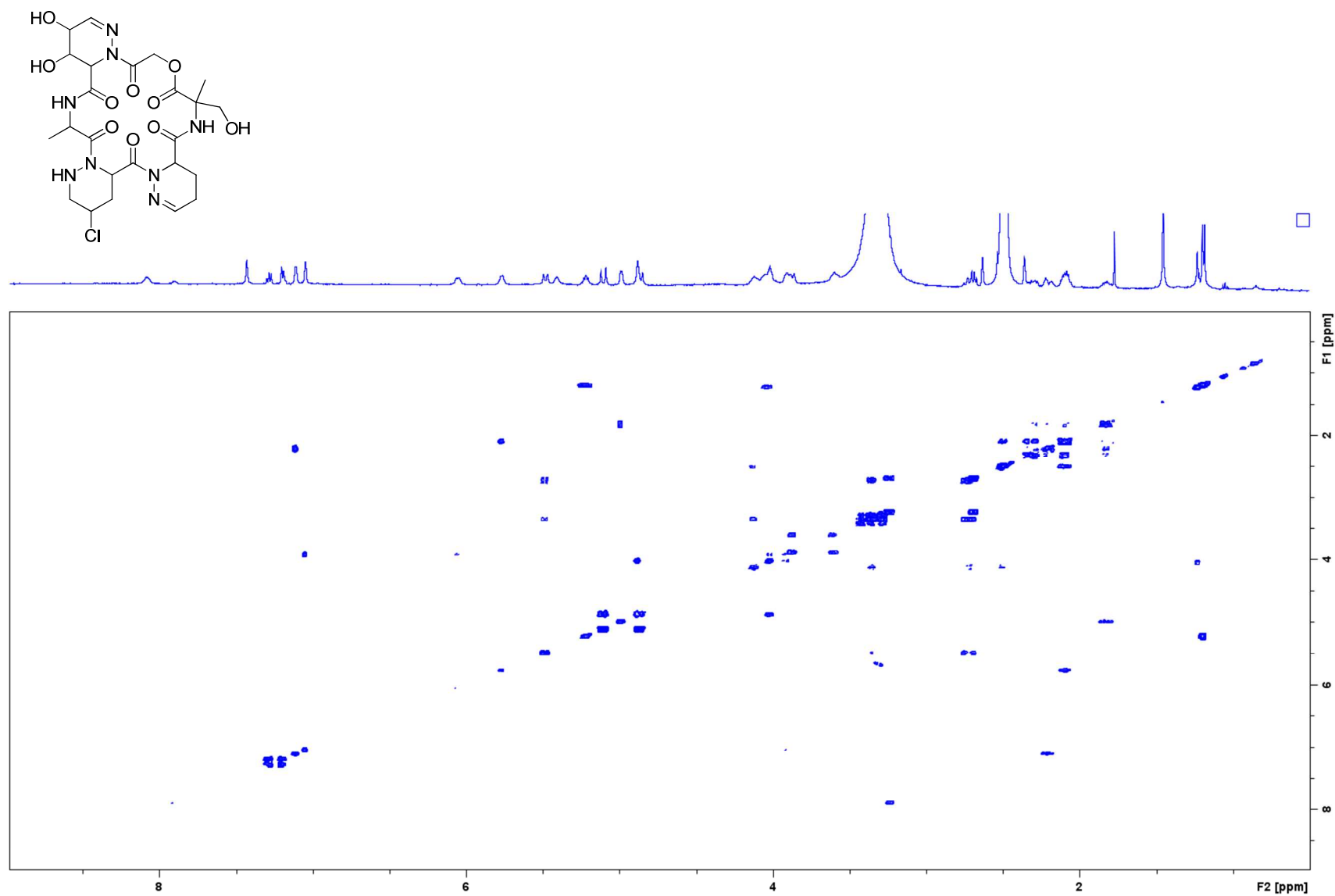


Figure S 32. ^1H , ^1H COSY (500 MHz, $\text{DMSO-}d_6$) spectrum of **4**

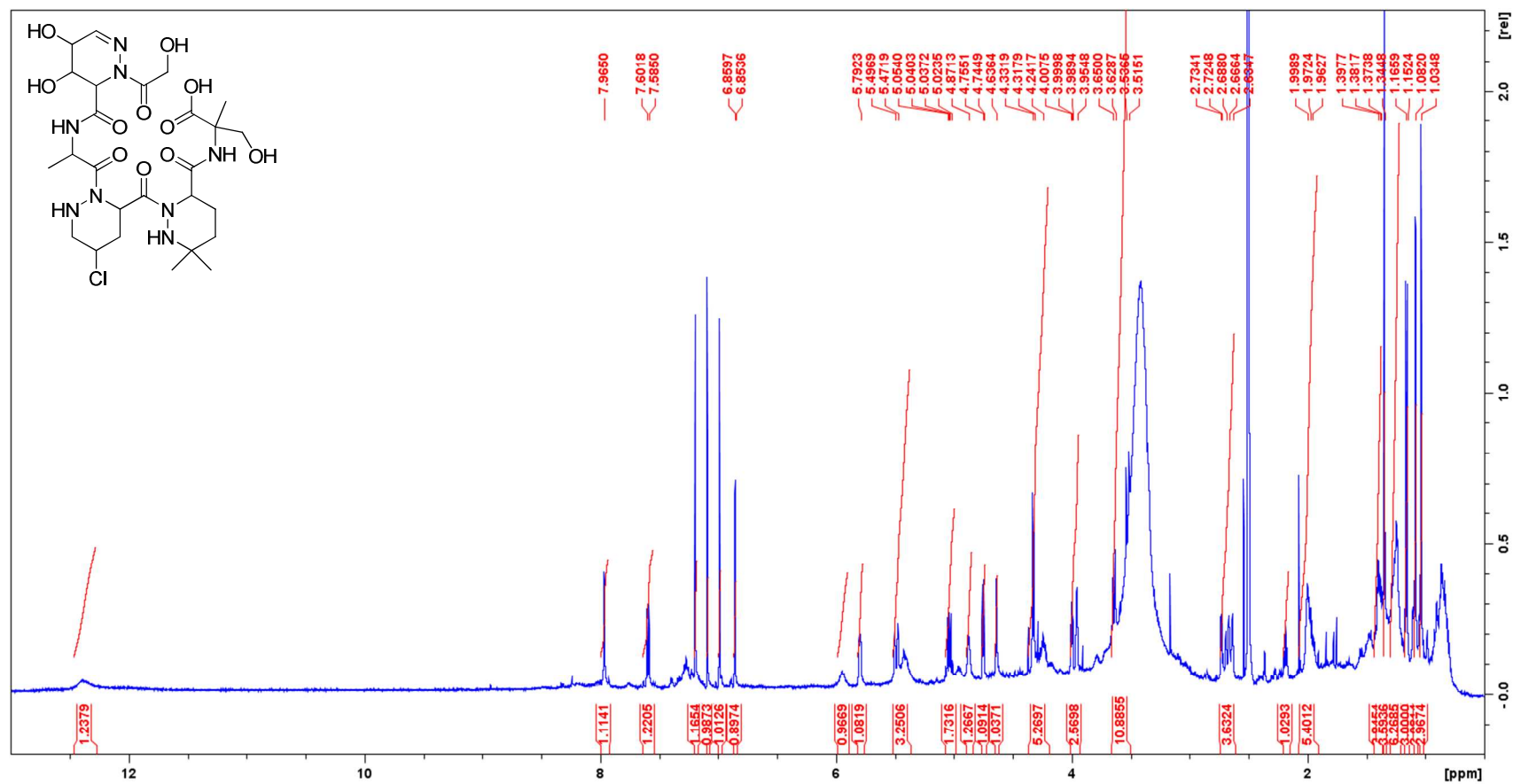


Figure S 33. ¹H NMR (500 MHz, DMSO-*d*₆) spectrum of 5 (impurities are not peak picked)

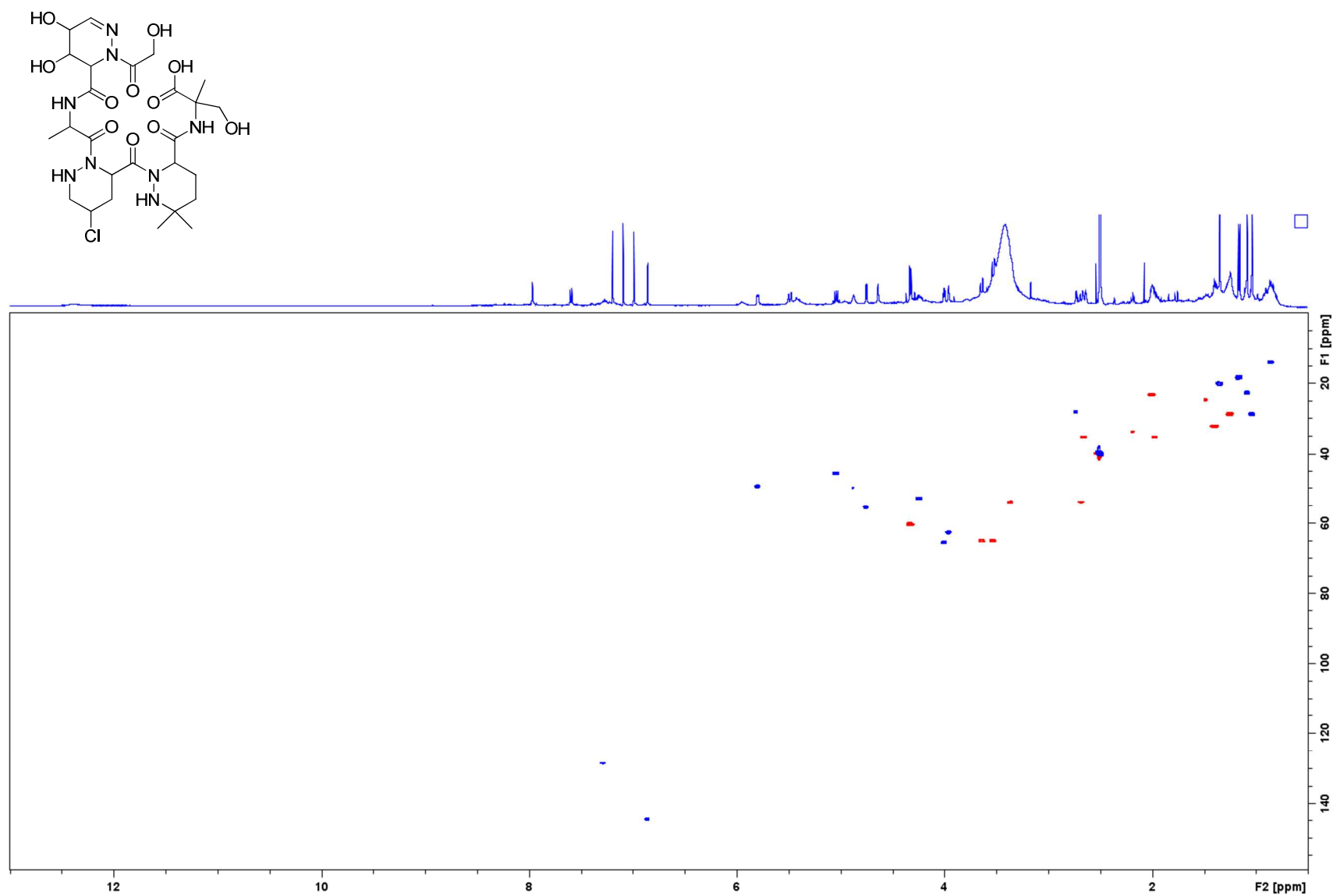


Figure S 34. ^1H NMR (500 MHz, $\text{DMSO-}d_6$) spectrum of **5**

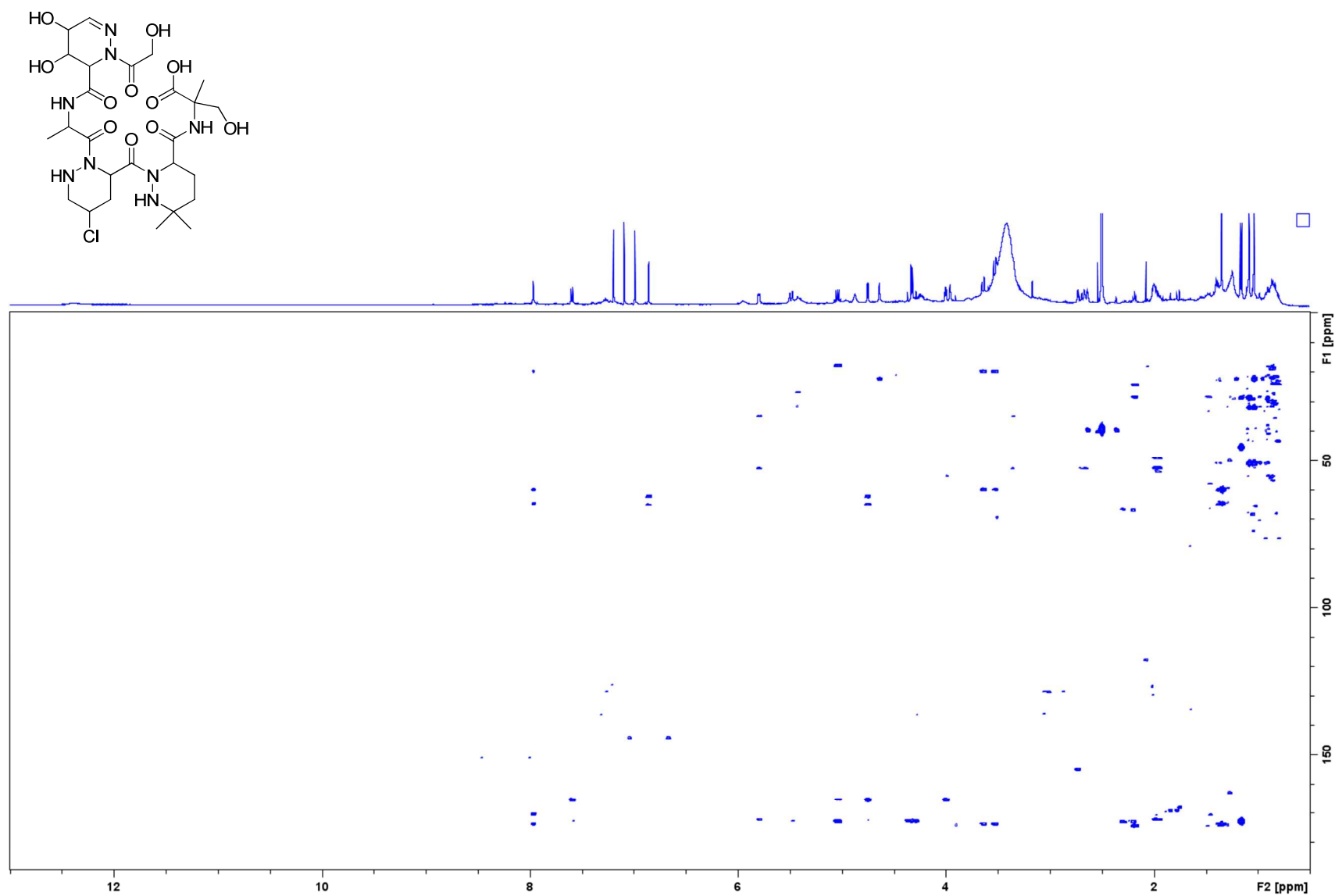


Figure S 35. ^1H , ^{13}C HMBC (500 MHz, $\text{DMSO}-d_6$) spectrum of **5**

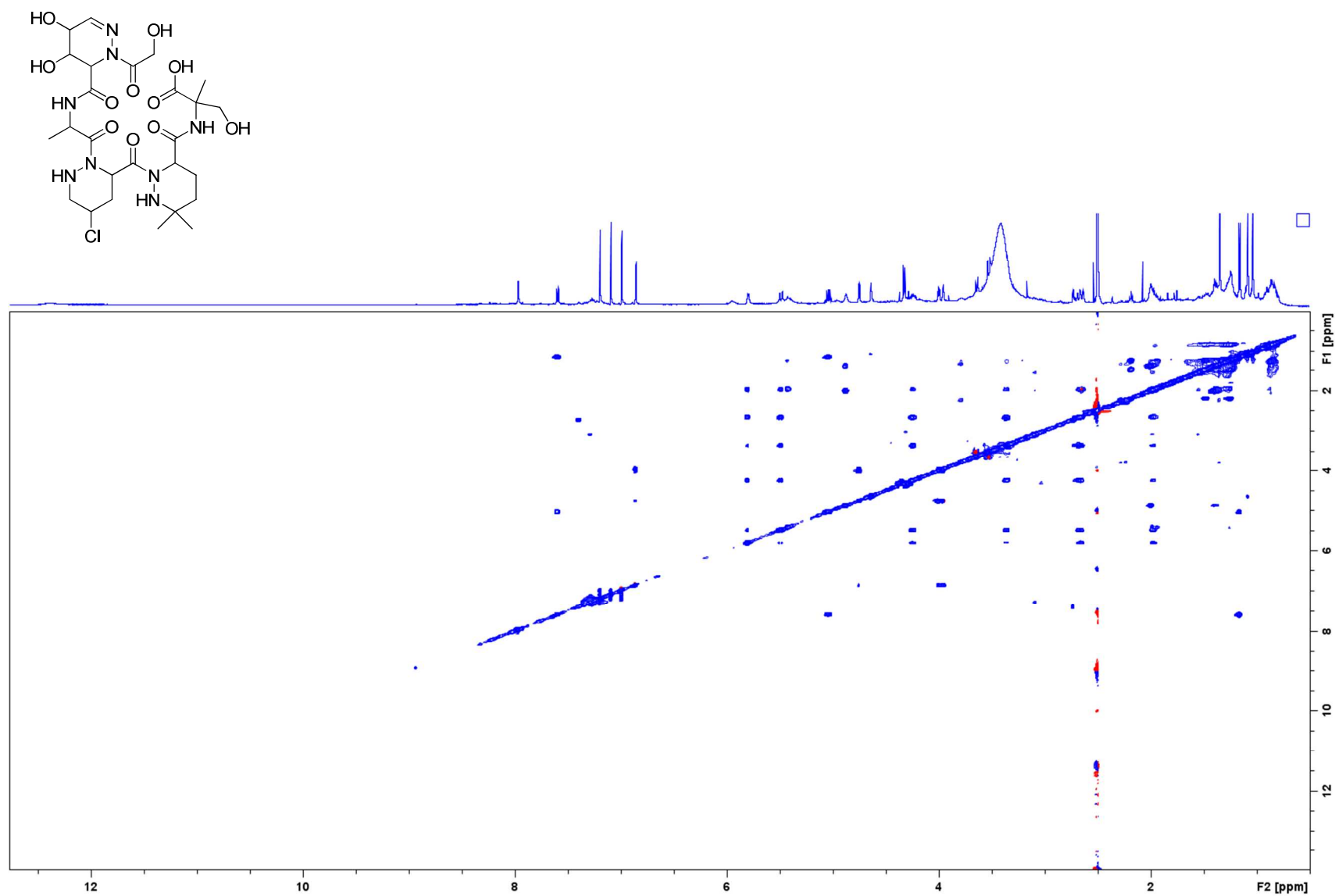


Figure S 36. ^1H , ^1H TOCSY (500 MHz, $\text{DMSO-}d_6$) spectrum of **5**

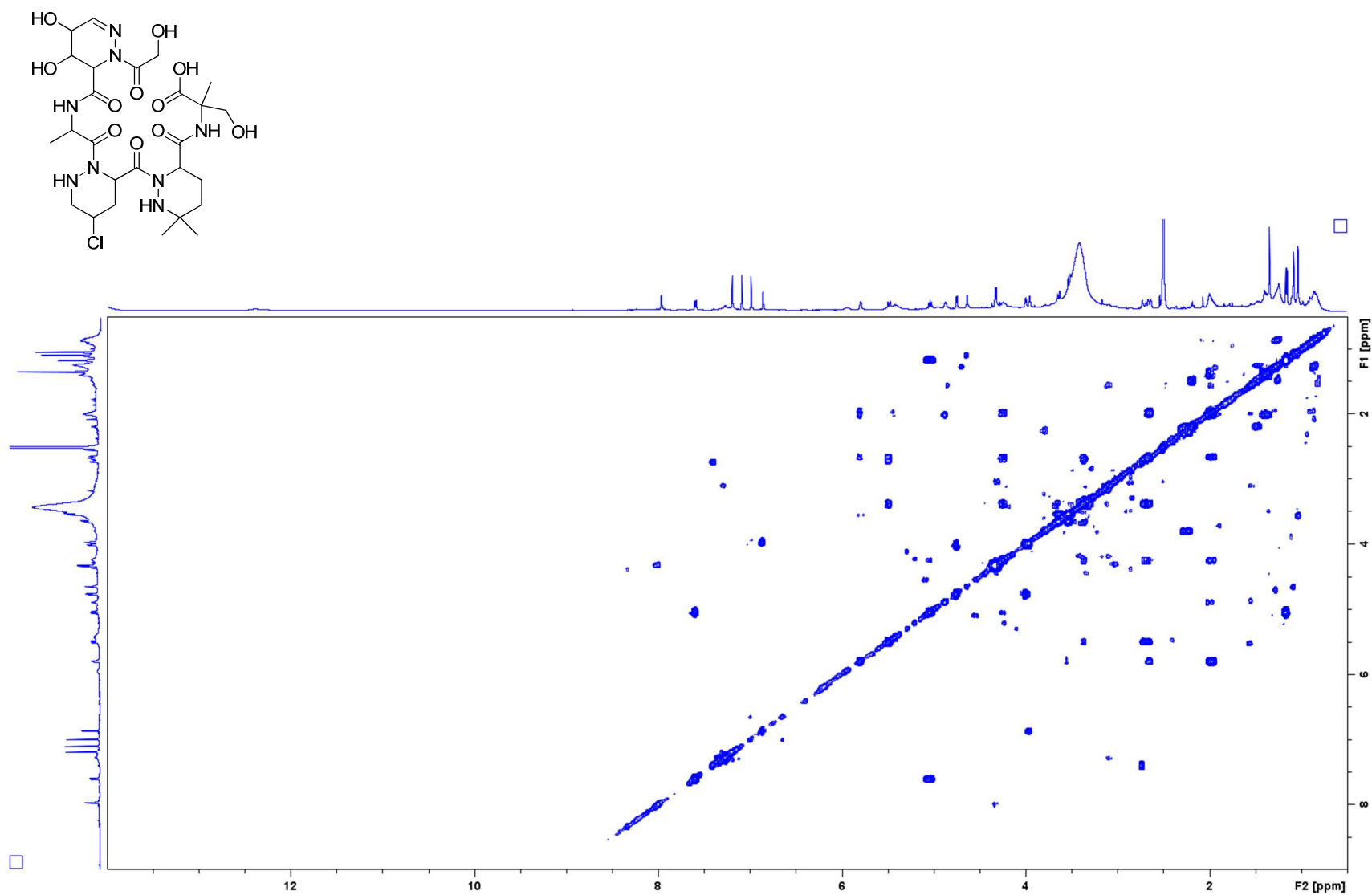


Figure S 37. ^1H , ^1H COSY (500 MHz, $\text{DMSO}-d_6$) spectrum of **5**

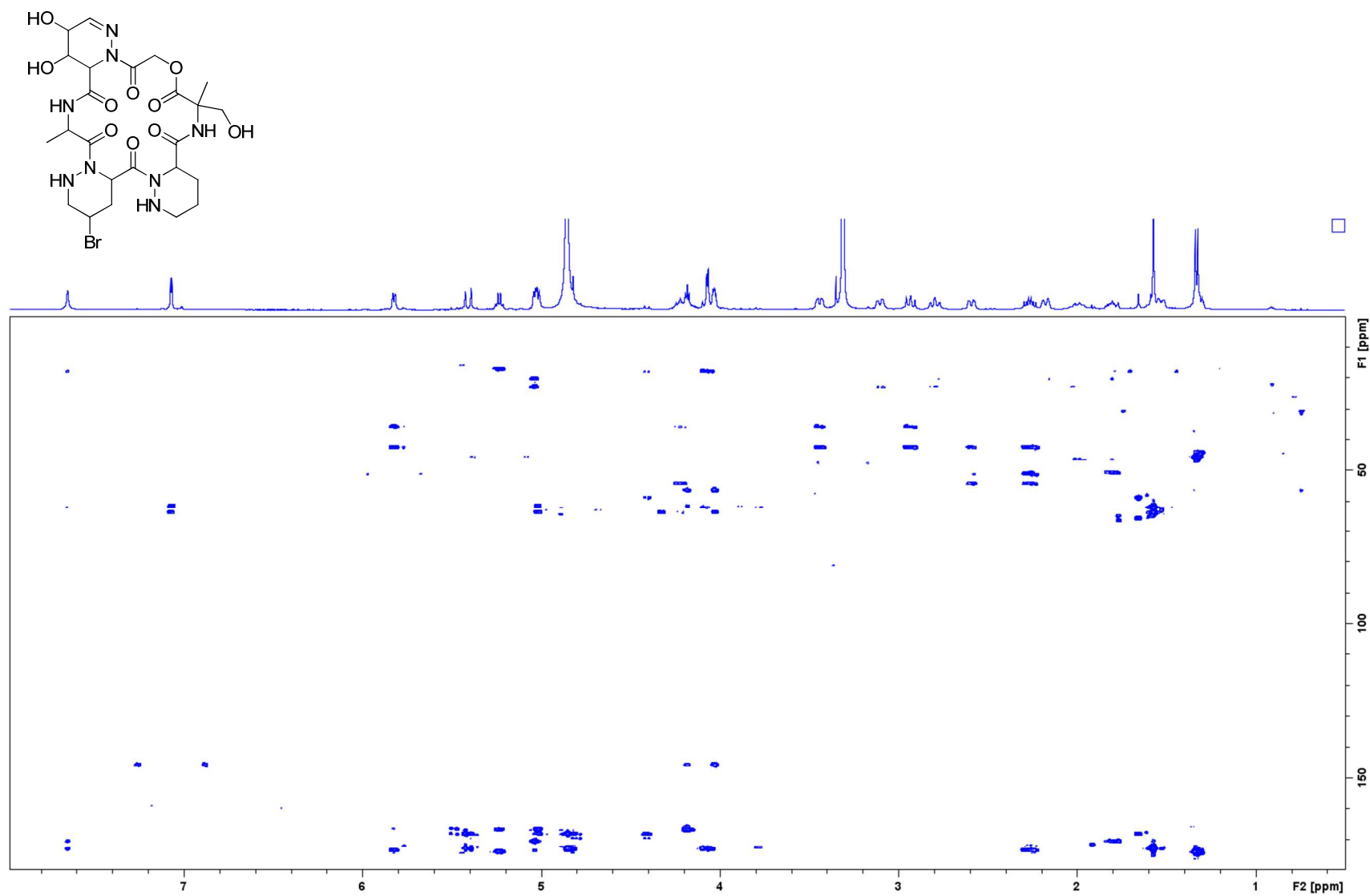


Figure S 40. ^1H , ^{13}C HMBC (500 MHz, CD_3OD) spectrum of **6**

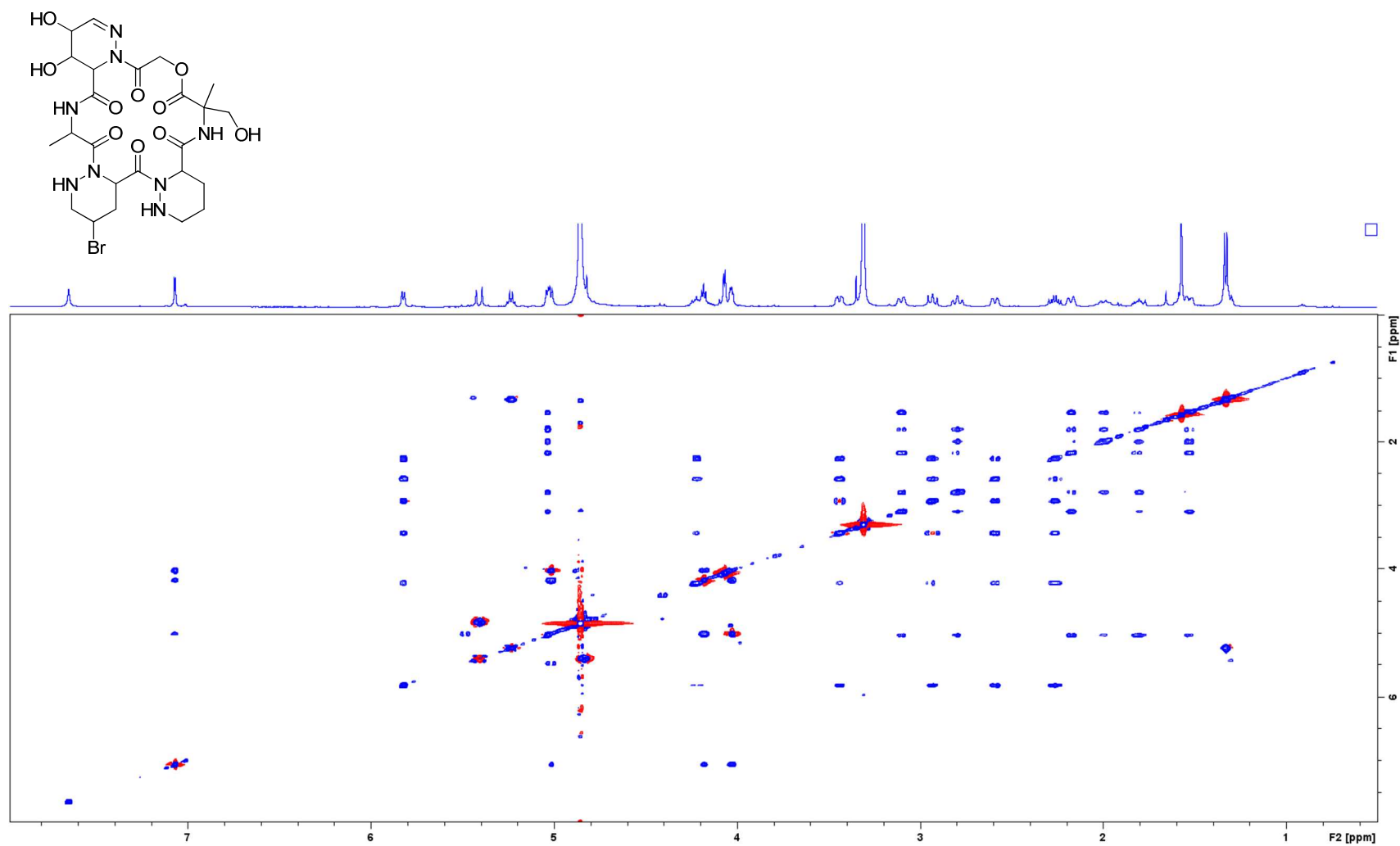


Figure S 41. ^1H , ^1H TOCSY (500 MHz, CD_3OD) spectrum of **6**

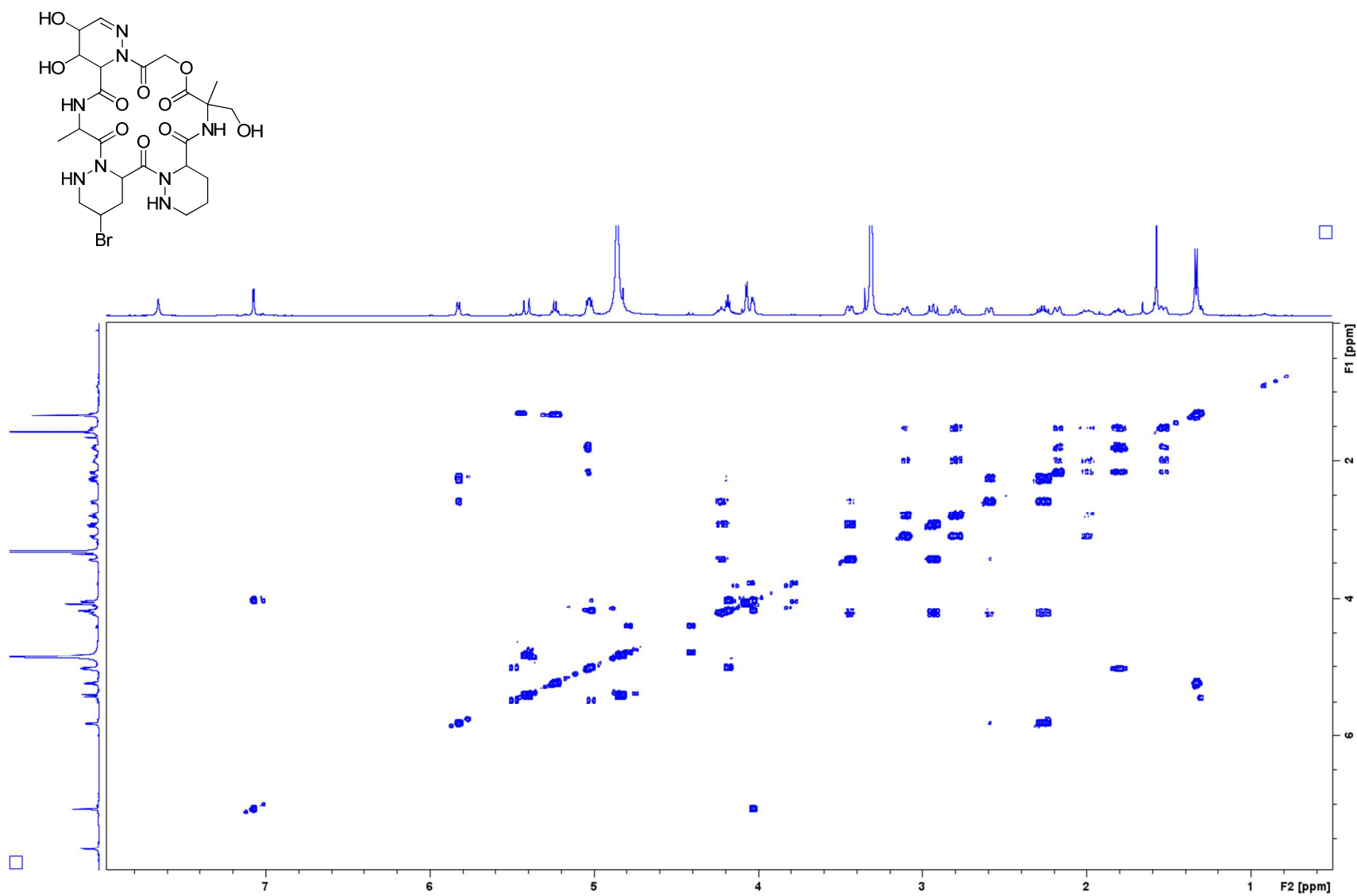


Figure S 42. ^1H , ^1H COSY (500 MHz, CD_3OD) spectrum of **6**

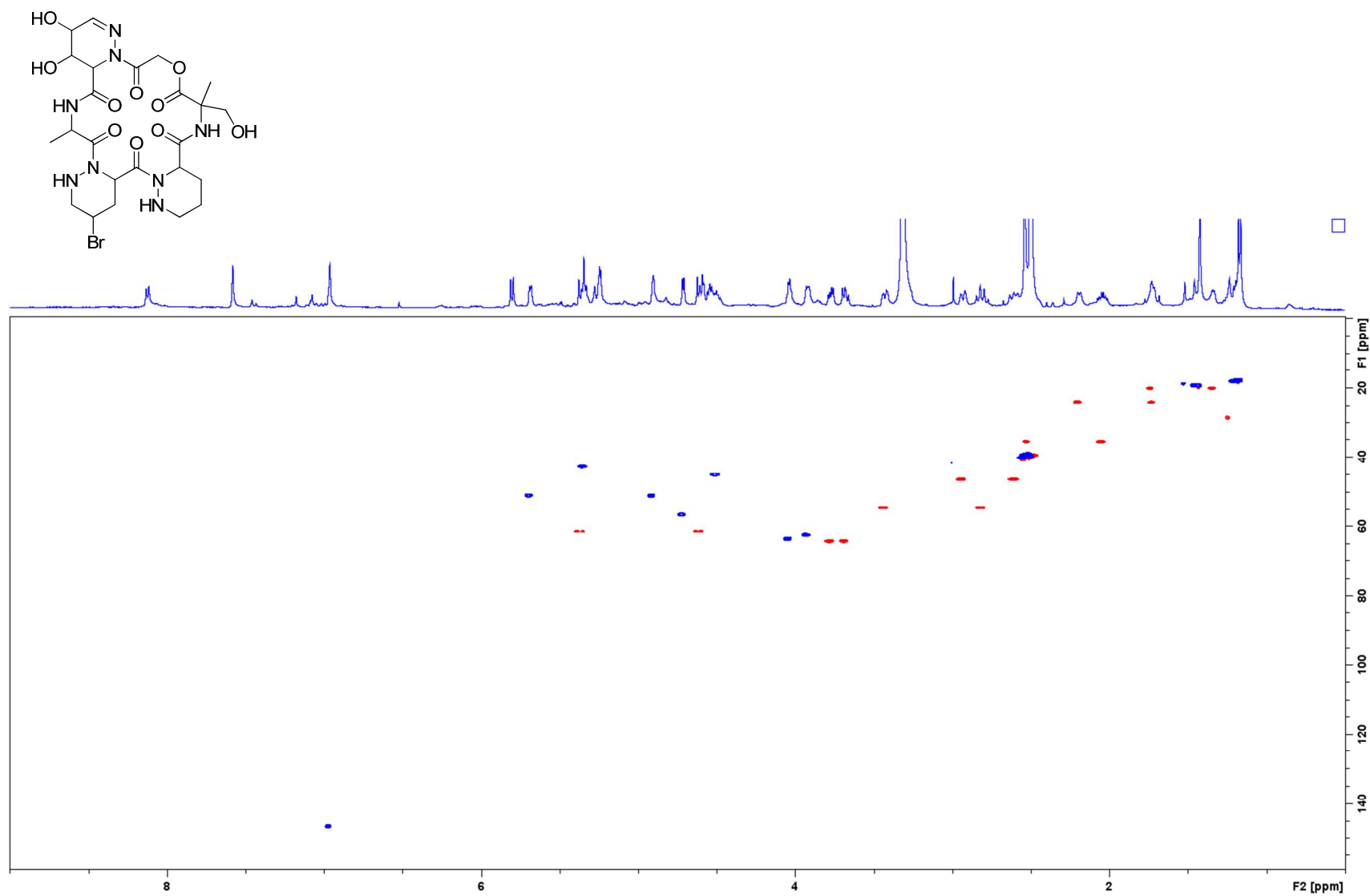


Figure S 44. ^1H , ^{13}C HSQC (500 MHz, $\text{DMSO}-d_6$) spectrum of **6**

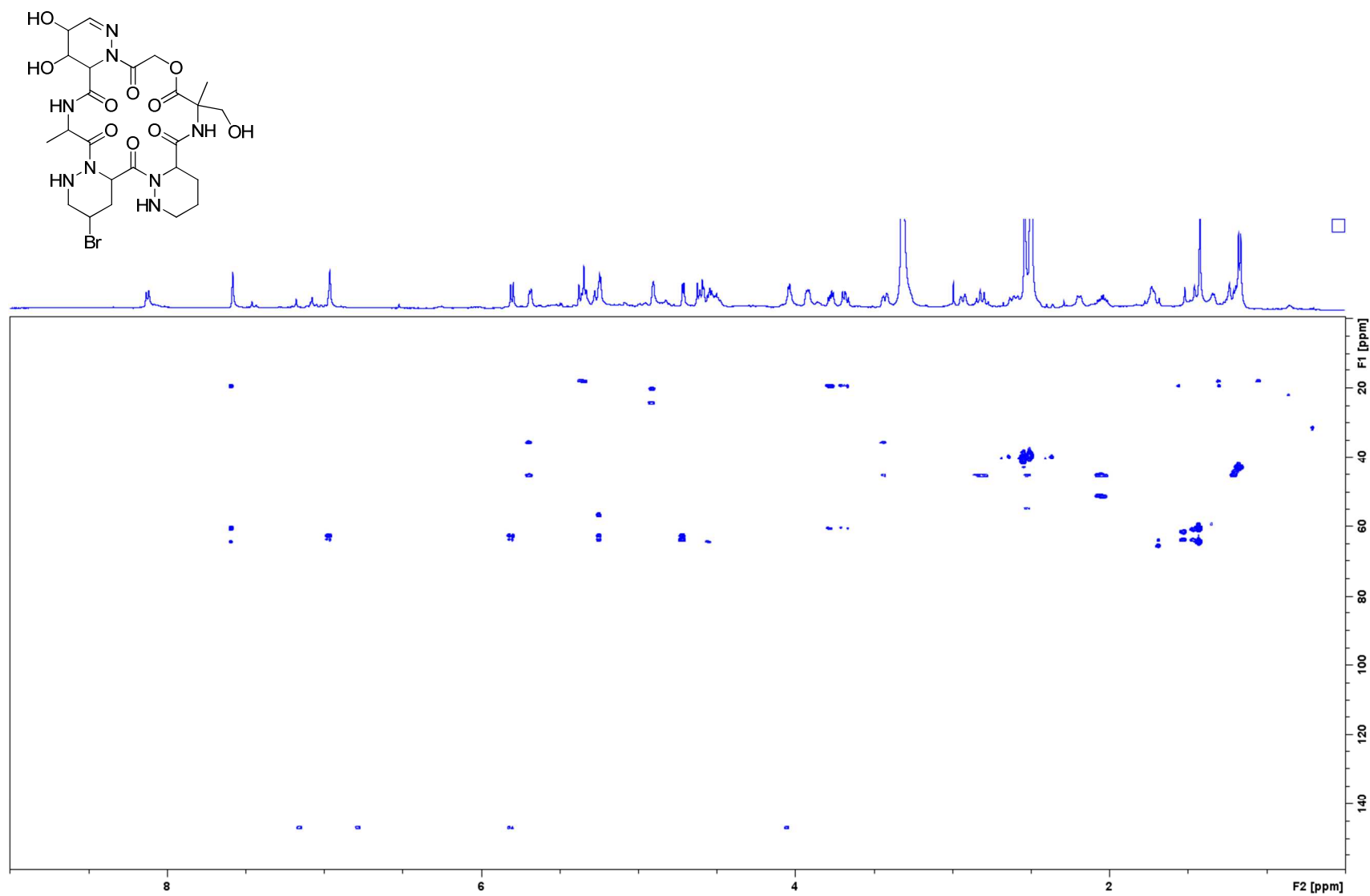


Figure S 45. ^1H , ^{13}C HMBC (500 MHz, $\text{DMSO}-d_6$) spectrum of **6**

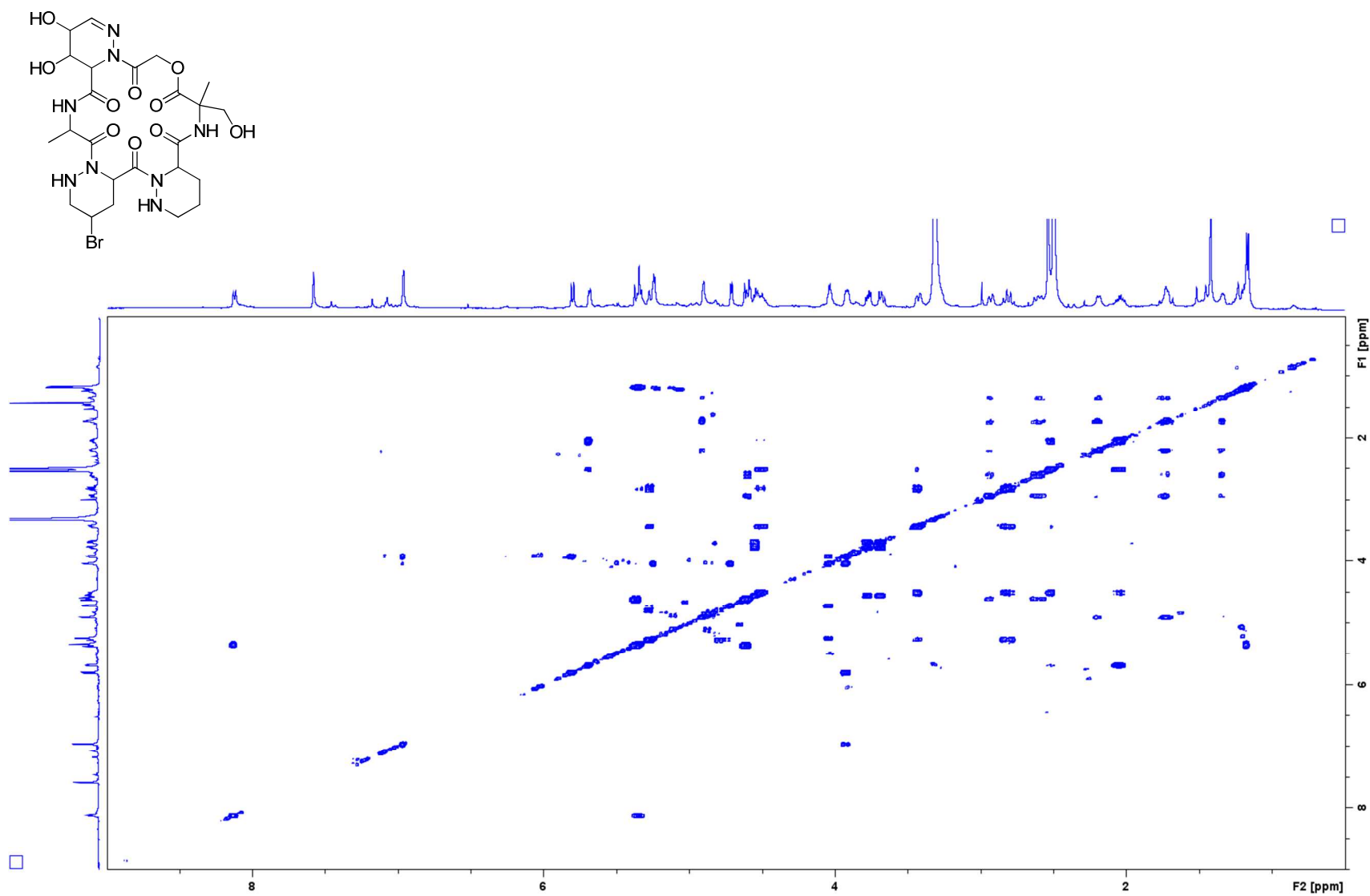


Figure S 46. ^1H , ^1H COSY (500 MHz, $\text{DMSO-}d_6$) spectrum of **6**

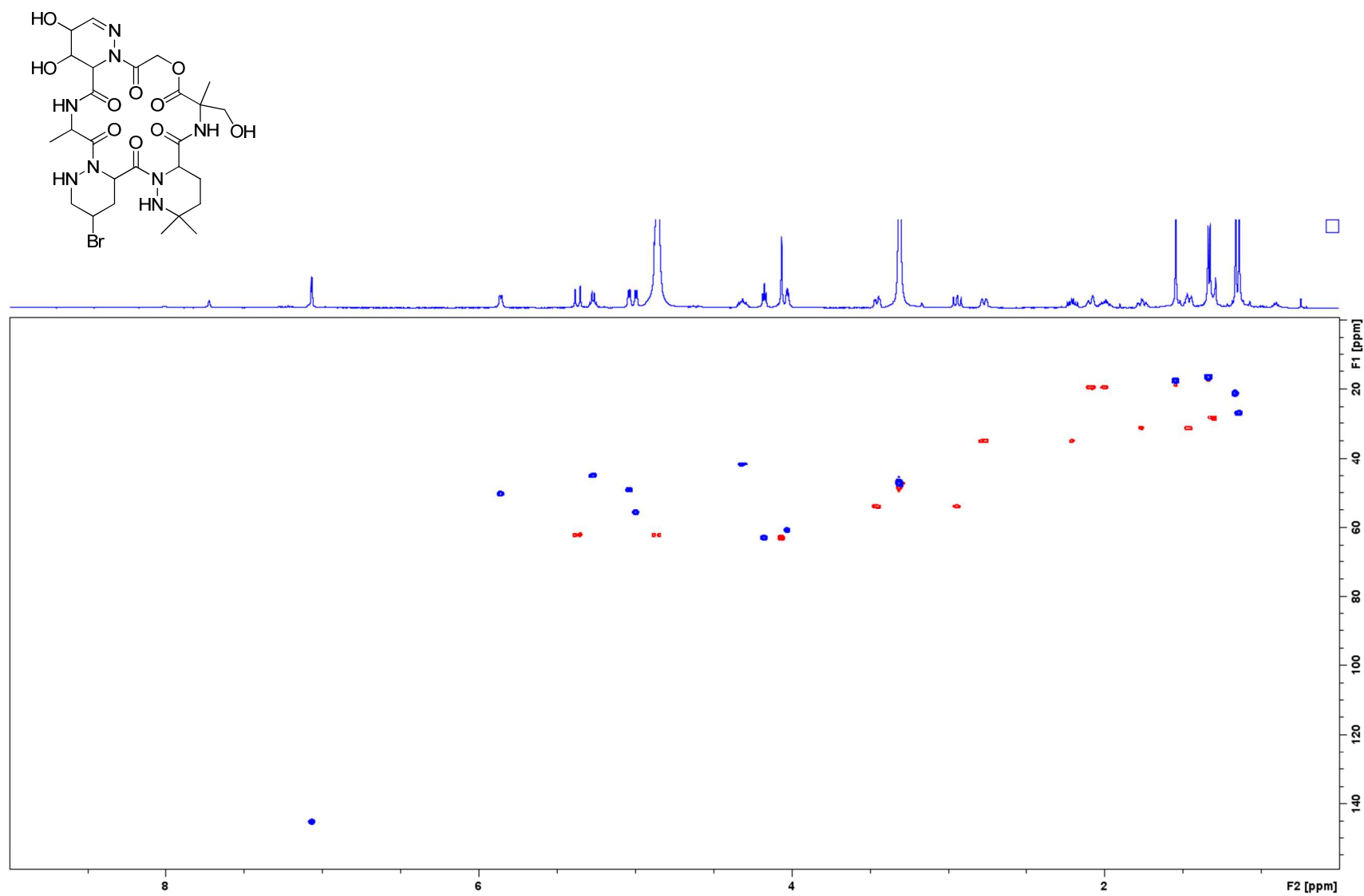


Figure S 48. ^1H , ^{13}C HSQC (500 MHz, CD_3OD) spectrum of 7

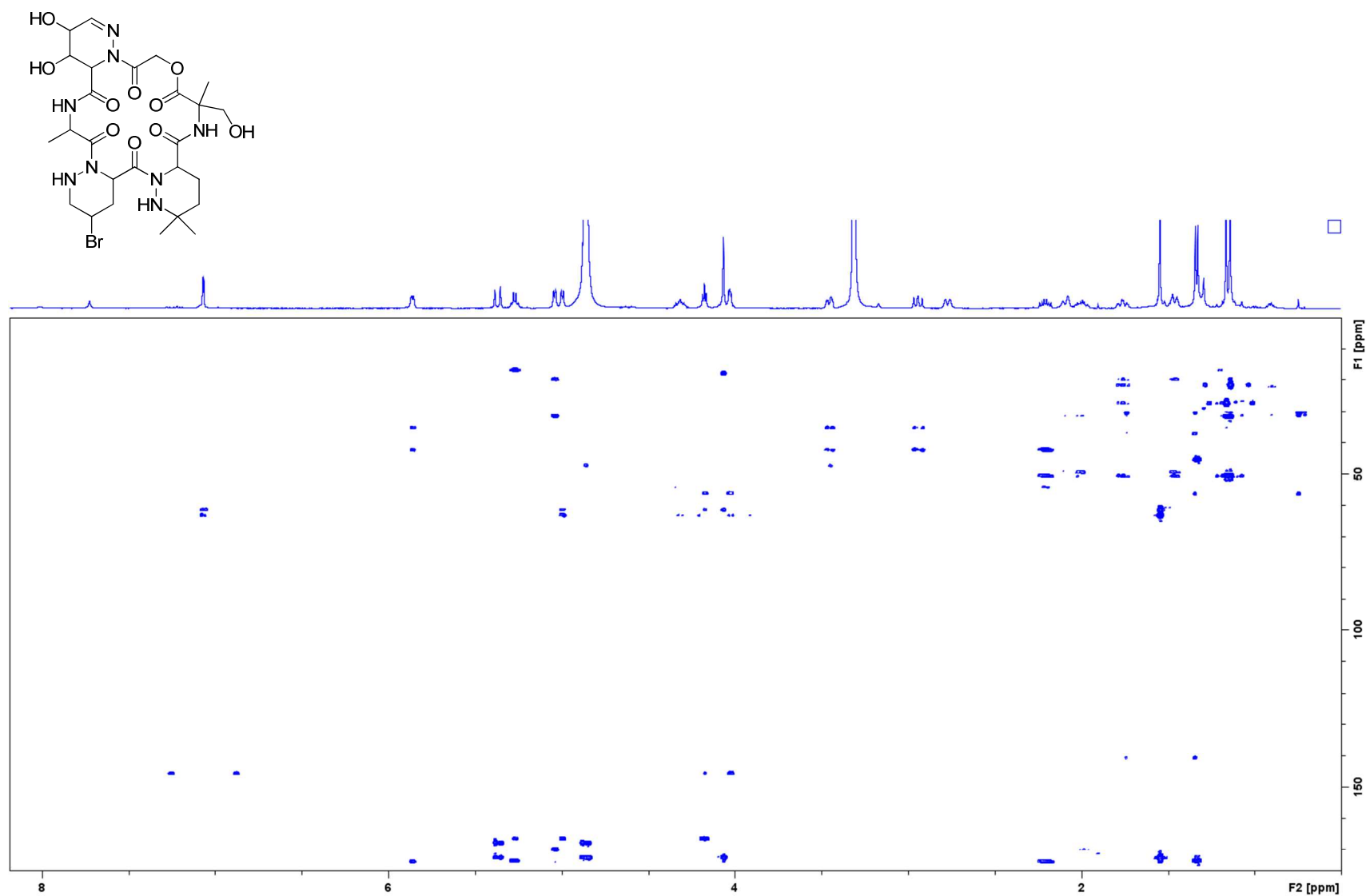


Figure S 49. ^1H , ^{13}C HMBC (500 MHz, CD_3OD) spectrum of 7

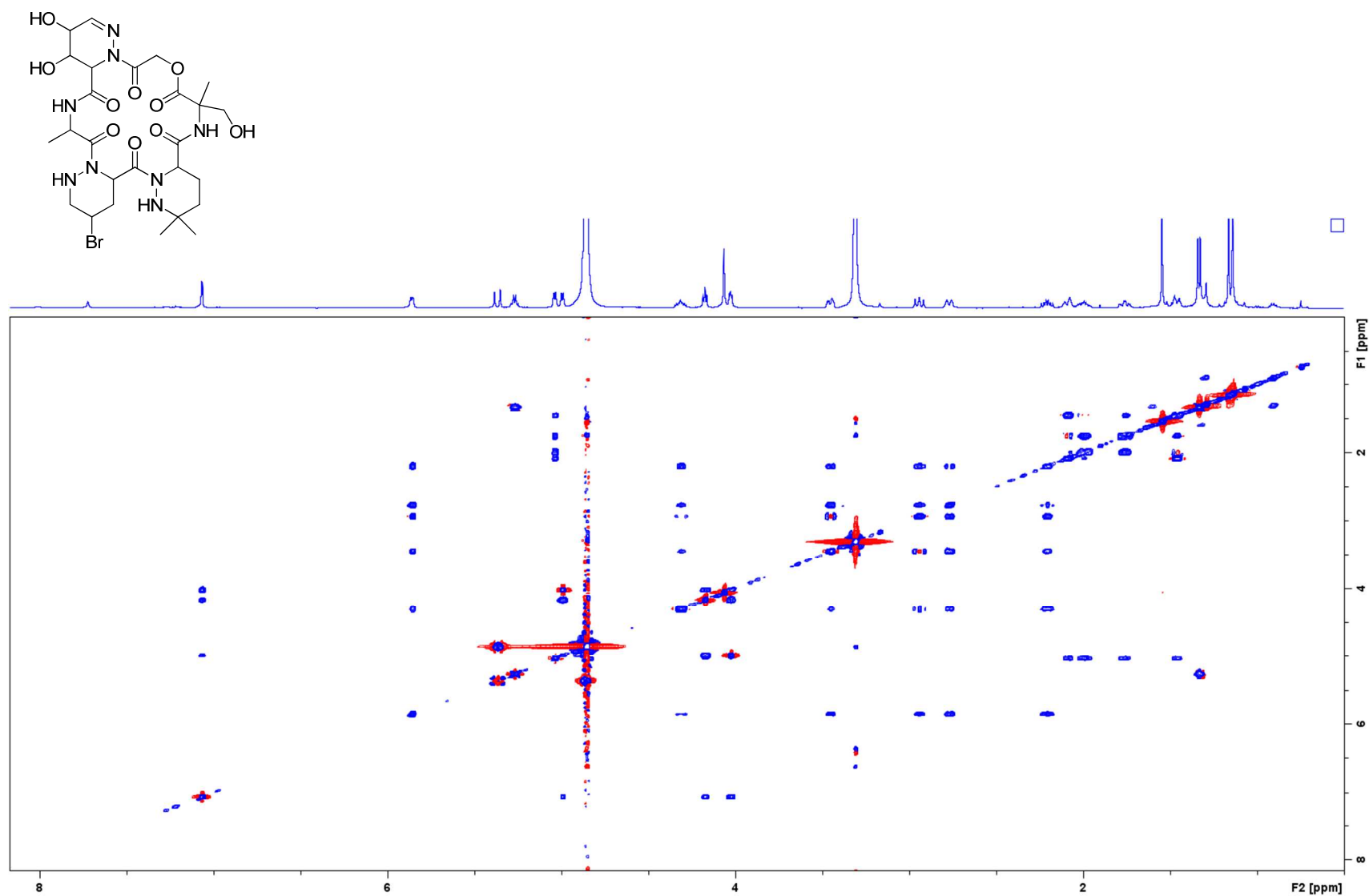


Figure S 50. ^1H , ^1H TOCSY (500 MHz, CD_3OD) spectrum of 7

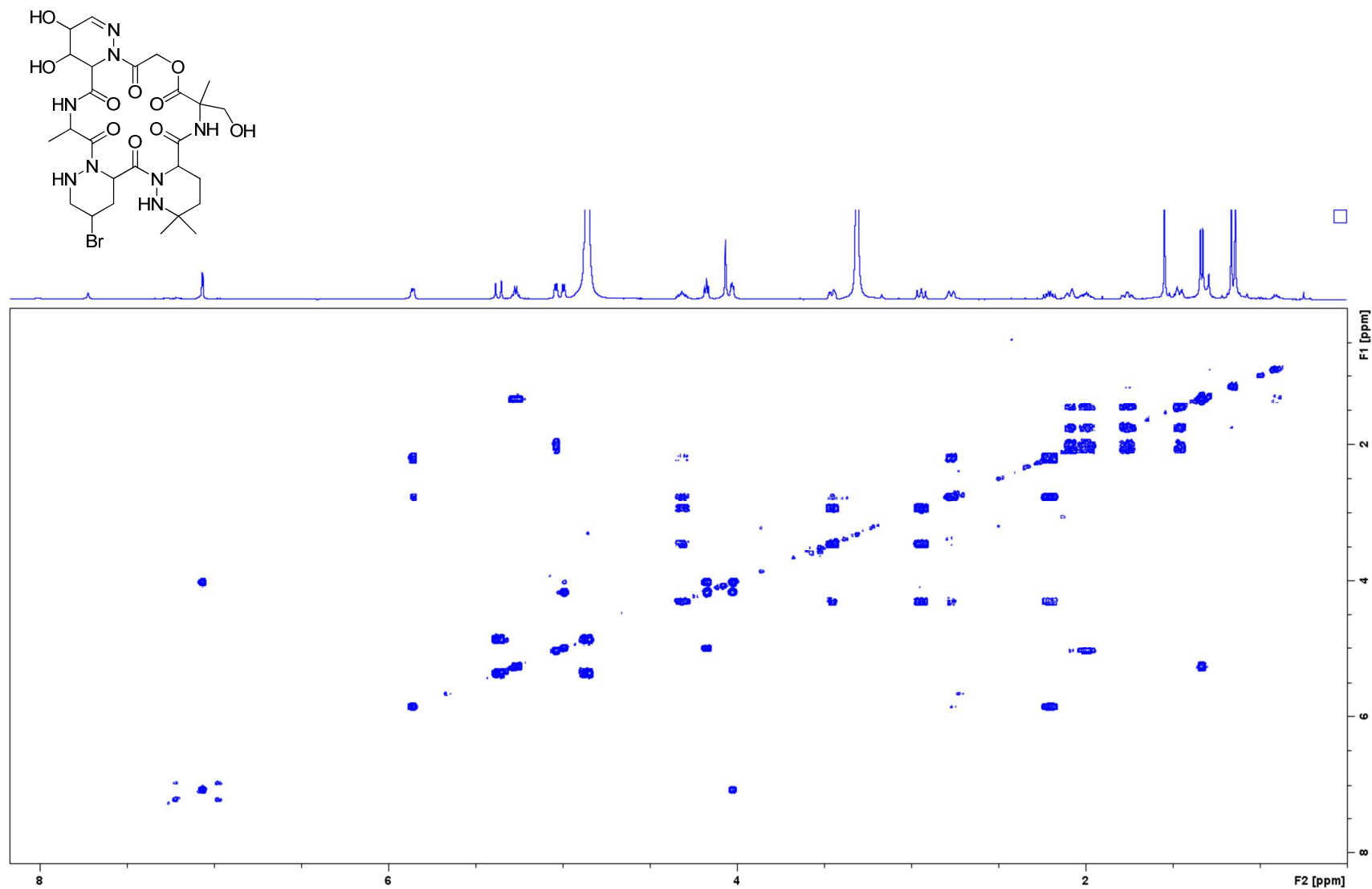


Figure S 51. ^1H , ^1H COSY (500 MHz, CD_3OD) spectrum of **7**

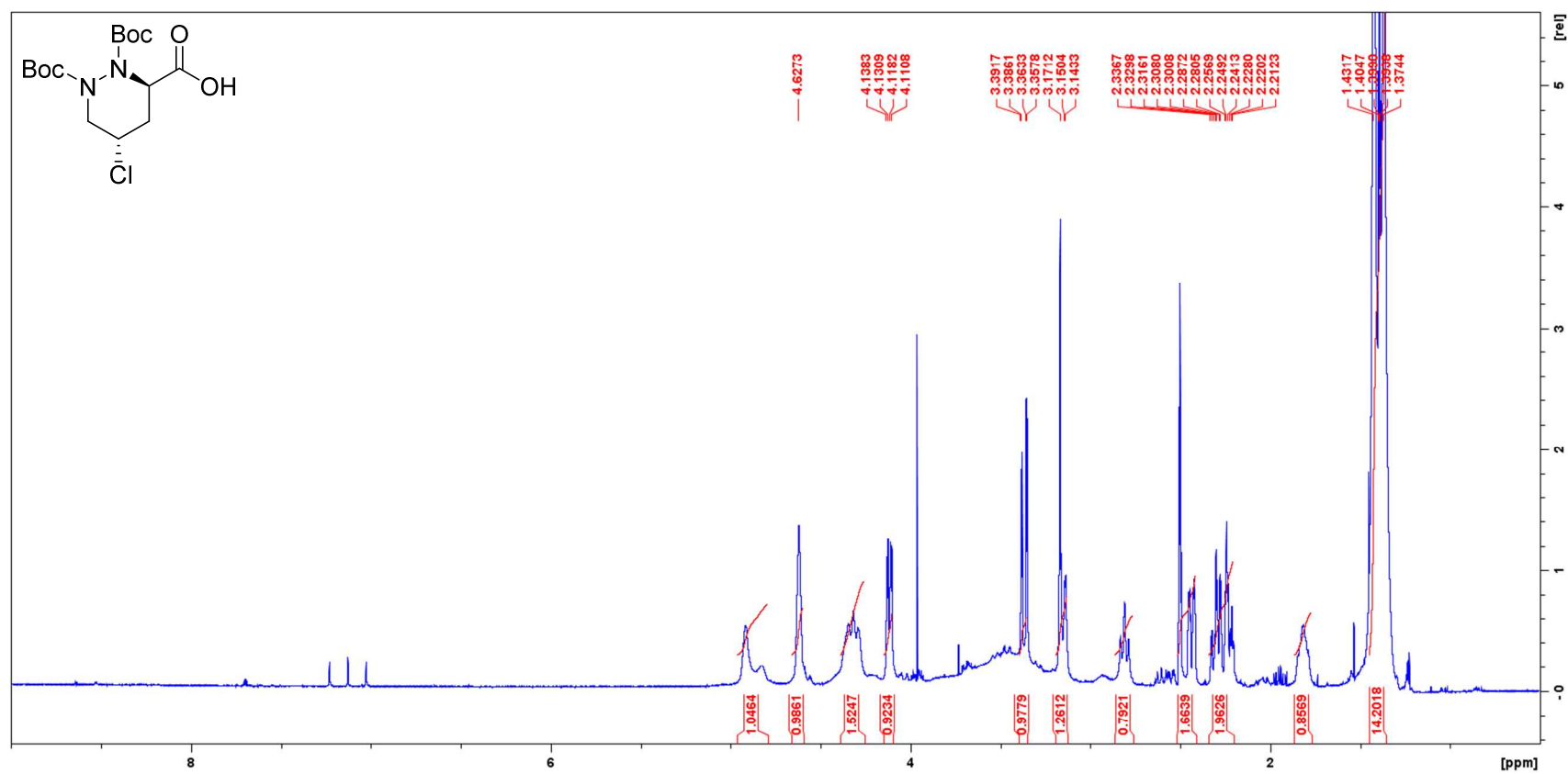


Figure S52. ¹H NMR (500 MHz, DMSO-*d*₆) spectrum of **20** (impurities are not peak picked)

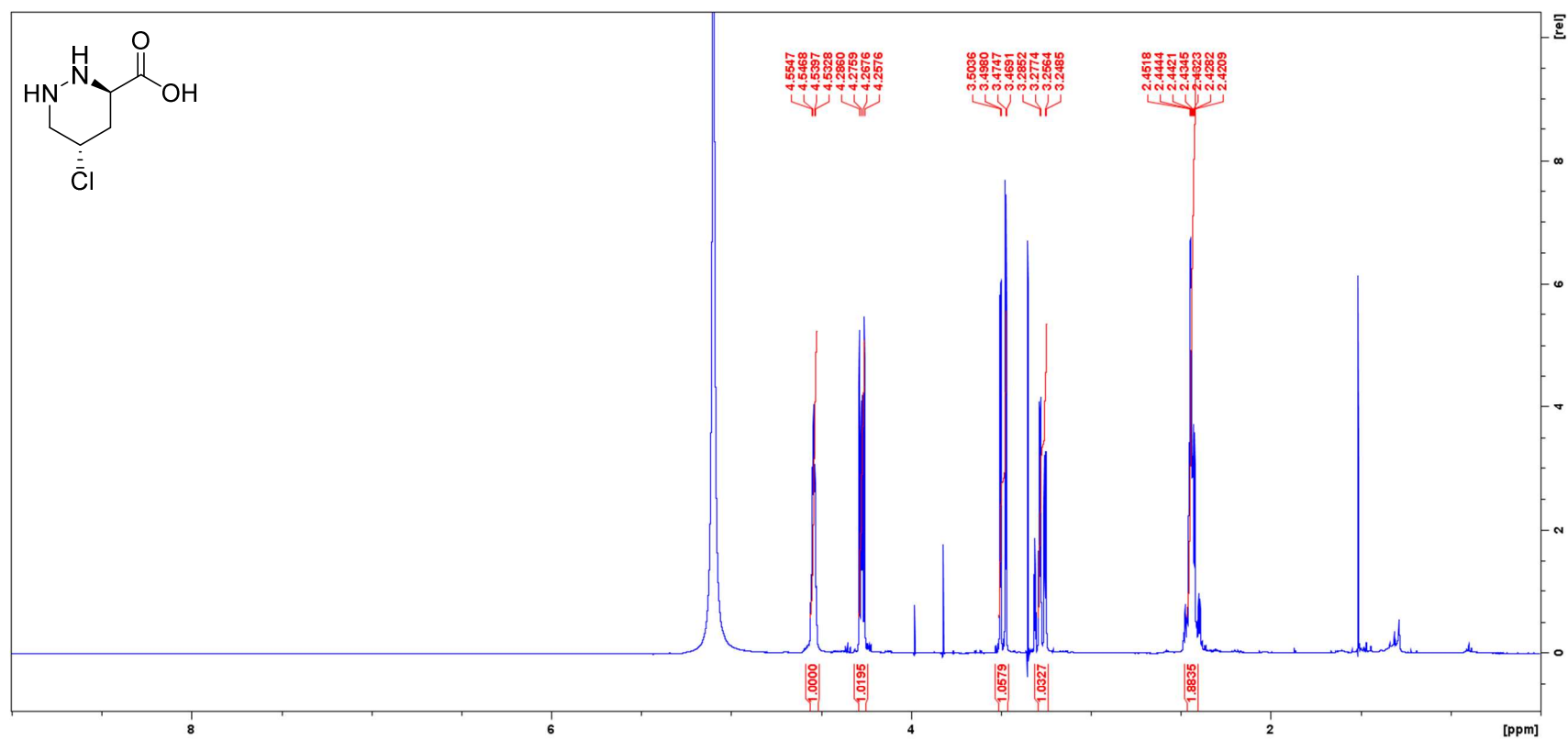


Figure S53. ¹H NMR (500 MHz, CD₃OD) spectrum of **21** (impurities are not peak picked)

Table S10. Cartesian coordinates of the optimized geometries for the conformers of **1a-1h** and related energies computed at the M062X/6-31g(d,p) level. In details, for each compound, we have reported information about the conformers contributing at least the 99.9% to the final Boltzmann distribution.

Compound **1a**

1a conf_1

energy (M062X/6-31g(d,p)) = -2585.2965422 Hartree

C	-0.9387344787	-0.3530515476	0.8510068494
O	-1.5844856823	0.1609631359	1.7376124188
C	-0.5249453724	0.3452332103	-0.4374219021
N	-1.3109117819	1.5666129671	-0.4932330774
C	-1.0638460918	2.5532410205	-1.3872057098
O	-0.4357701066	2.3950012205	-2.4291173048
C	-1.6023051026	3.927312557	-0.9532713559
C	-1.6335791074	4.9575481365	-2.0809736149
C	-0.2433093756	5.4835934063	-2.4385957701
C	0.500860289	5.9122875675	-1.1790013718
N	0.5400864966	4.8644197589	-0.1583674469
N	-0.7530854844	4.4141465529	0.1426708239
C	-1.0677736157	4.1495672645	1.4307775302
O	-2.1132919947	3.5759189134	1.7462636446
C	-0.0505870671	4.587505374	2.4898991141
N	-0.3026344078	3.8645268415	3.7269133838
N	-1.4102346652	4.2222532503	4.5104180006
C	-1.3988381559	5.6451845702	4.8310380339
C	-1.3039585844	6.485679023	3.562503567
C	-0.0692737904	6.1007526443	2.7659678551
C	0.3379886735	2.7000586256	3.9757856985
O	1.1468076627	2.2158275156	3.1802315649
C	0.0989005228	2.0322404743	5.326630071
C	0.9037124929	2.7565644895	6.4115014341
N	0.511273024	0.6523841589	5.1668639503
C	0.2038825226	-0.3128150554	6.0351827477
O	-0.3792185038	-0.117093961	7.1081736268
C	0.5680913925	-2.7296485675	6.7586871048
C	0.644266527	-1.7266959994	5.6012272545
N	-0.1705537644	-2.2027273264	4.4713942318
N	-1.2279238385	-3.0648735835	4.5917943
C	-1.548185079	-3.498579348	5.7476821278
C	-0.8756561589	-3.1372961983	7.031792995
C	0.1414793846	-1.8097468725	3.2002310966
O	1.0939873968	-1.078356995	2.9644659519
C	-0.7737950615	-2.3170486383	2.0952051583
O	-0.4896159885	-1.6124232063	0.8942187853
O	-0.9449801575	-4.2495265667	7.8956426705
Cl	-1.2417382913	8.2414443792	3.993164981
C	-0.7845238619	-0.5689058671	-1.639233537

C	1.0022837176	0.6819542517	-0.3551131384
O	1.2897188486	1.8595385714	0.3513941565
O	1.1865385187	-2.2343520987	7.9209390708
H	-2.3878661589	-4.1872894375	5.7805854482
H	-1.7502852778	1.8324501972	0.3844180816
H	-2.6001287974	3.7984982083	-0.5289224328
H	-2.2665373228	5.7885722289	-1.7503187044
H	-2.1149446394	4.5088211895	-2.9538113572
H	-0.3307100803	6.3312714479	-3.125879282
H	0.0224570589	6.7891673612	-0.7285916585
H	1.5386999716	6.1771402129	-1.3976907732
H	1.0767643747	4.0545568042	-0.4743431138
H	0.9446667335	4.3118780317	2.1480354443
H	-2.2333036641	3.9940848736	3.952078561
H	-0.5451602528	5.8547319616	5.4823526017
H	-2.3159289915	5.8641582473	5.3814932872
H	-2.2116420778	6.3684937587	2.9658241568
H	-0.0206312023	6.6423738783	1.8201083222
H	0.8240748975	6.3521672257	3.3460319694
H	-0.9606496687	2.0665792902	5.5839123875
H	0.7826934842	2.2286531364	7.358714356
H	1.9648858624	2.7792094536	6.1502793694
H	0.5446698058	3.7804678333	6.5329181235
H	0.9951220546	0.4144446724	4.3029362349
H	1.1175779688	-3.6309381032	6.472395892
H	1.674509879	-1.6727643843	5.2417576452
H	-1.4000982112	-2.2706580434	7.4634417041
H	-1.8202399694	-2.200167507	2.3720548961
H	-0.5765286126	-3.3680882508	1.8834903645
H	-0.4553022717	-3.9973857064	8.6923490771
H	-1.825035501	-0.902306956	-1.6544655755
H	-0.5777265551	-0.0122309427	-2.5529846998
H	-0.1380553783	-1.4477026203	-1.5976207928
H	1.3509392658	0.8469627224	-1.375292094
H	1.5287021366	-0.1871933603	0.0552552436
H	1.1772266891	1.7390232946	1.3114658083
H	0.7058153579	-1.4115232116	8.1298791837
H	0.3238471933	4.6999244441	-2.9476036449

1a conf_2

energy (M062X/6-31g(d,p)) = -2585.2786983 Hartree

C	-0.5968929173	-0.4429669881	0.8479593594
O	-1.3692762462	-0.0204160589	1.6789161299
C	-0.1068483986	0.3658808675	-0.3549862561
N	-0.9470652014	1.5531305545	-0.3838474466
C	-1.0892565769	2.4480491963	-1.3932450542
O	-0.8613598834	2.2372108731	-2.5757216962
C	-1.593239994	3.8233178252	-0.8973935201
C	-1.6427912707	4.8648052266	-2.0135378288
C	-0.2453971458	5.3376644719	-2.4125857965
C	0.5491038758	5.7494024477	-1.1775543877
N	0.5789147886	4.7070659856	-0.1477367034

N	-0.7235921435	4.3001419633	0.1813885503
C	-1.0722462641	4.154936128	1.4801551496
O	-2.1387687605	3.6266218356	1.8083031923
C	-0.0773692678	4.6545799625	2.5330453934
N	-0.331830901	3.9701580718	3.7915209482
N	-1.4736801509	4.314152868	4.5306815149
C	-1.5031550689	5.7458508486	4.8092020163
C	-1.4041393635	6.550267505	3.5168806223
C	-0.1456427871	6.175586397	2.7522617247
C	0.3401531144	2.82752335	4.0833050914
O	1.2206633802	2.3887927584	3.3471772234
C	0.0128361436	2.1305587607	5.4015589508
C	0.7229760471	2.8434302286	6.5571848751
N	0.4588275606	0.758283216	5.2479278943
C	0.1013283247	-0.2217705536	6.0794547087
O	-0.5856848277	-0.0458829044	7.0936317834
C	0.4981539092	-2.6115961528	6.8688331969
C	0.6345906677	-1.6214682403	5.7046574084
N	-0.0459787323	-2.1575609324	4.5139064652
N	-1.0601749812	-3.0771877491	4.5523523282
C	-1.4695980226	-3.5051007521	5.6819206406
C	-0.9440618521	-3.0839964117	7.0151227601
C	0.3856933845	-1.7849434554	3.2714951661
O	1.3119005479	-1.0000320869	3.1212522666
C	-0.3481287519	-2.3944616641	2.0836002517
O	-0.03062263	-1.6513279306	0.9106639054
O	-1.0418359532	-4.1804539343	7.8963201599
Cl	-1.3954026776	8.3201695827	3.8945993013
C	-0.1697829034	-0.4571756748	-1.641709586
C	1.3451260126	0.7760817111	-0.0074903924
O	1.7708252511	1.7454307136	-0.9462275351
O	0.9832600695	-2.0744448236	8.0748738029
H	-2.2705013989	-4.2386055976	5.6498637707
H	-1.2900406109	1.8318602846	0.5290174951
H	-2.5829013192	3.6874842641	-0.4538260865
H	-2.2341122557	5.7137614065	-1.6534703118
H	-2.1660316112	4.4353725279	-2.8705432088
H	-0.3169417525	6.180163855	-3.1079140998
H	0.1158113383	6.6472509958	-0.7232964416
H	1.589509481	5.9740696806	-1.4270866771
H	1.0740660033	3.8790648091	-0.4919076618
H	0.9286190805	4.3922338284	2.2138591914
H	-2.2729548396	4.054793598	3.9513948637
H	-0.6668144853	5.9945819816	5.469307948
H	-2.4356156219	5.9613484973	5.3348810548
H	-2.2971850971	6.391478722	2.9080931389
H	-0.0998769258	6.6885110646	1.7897217451
H	0.7307623317	6.4739960426	3.3358756167
H	-1.0630137023	2.1414454558	5.5811341031
H	0.3403596995	3.8601305238	6.6685284216
H	0.5403575145	2.2971778899	7.4839946064
H	1.8001517296	2.8858041698	6.3758151714
H	1.0227140126	0.5453238224	4.4271648309
H	1.1125779611	-3.4893076568	6.6487570696

H	1.6901924672	-1.5251078433	5.4403795685
H	-1.5477240227	-2.235963705	7.3739328389
H	-1.4231908151	-2.412385806	2.2485345401
H	0.0037498287	-3.4099856623	1.9000758693
H	-0.6353958376	-3.8893755715	8.7259691946
H	0.3895515369	-1.3843111671	-1.5073288595
H	-1.2045371374	-0.7016173736	-1.8923696927
H	0.2599233935	0.1124804327	-2.4622671734
H	1.9788598166	-0.1172113906	-0.0396528864
H	1.3691944154	1.1831011331	1.0108281373
H	2.712191403	1.9009216014	-0.792550422
H	0.4489263619	-1.2714672158	8.2231920886
H	0.2787896543	4.5286753664	-2.9312243218

1a conf_3

energy (M062X/6-31g(d,p)) = -2585.2756221 Hartree

C	-0.9553449973	-0.4801368237	0.8647379361
O	-1.5832853057	0.0925956725	1.7271234178
C	-0.5271168375	0.1556438896	-0.4547997936
N	-0.982272583	1.5411098078	-0.3544665422
C	-0.6922825959	2.5422412749	-1.1984542862
O	0.0223463569	2.4361974447	-2.2026604671
C	-1.3078262447	3.8874457599	-0.7899021516
C	-1.3987230961	4.897602891	-1.9354204597
C	-0.0722174282	5.5921919173	-2.233925117
C	0.5323339286	6.1304400444	-0.943830652
N	0.6811033413	5.0891415279	0.0758523572
N	-0.5380107974	4.4458424297	0.3290322484
C	-0.931736806	4.211029284	1.6088247945
O	-1.9169740209	3.5206283447	1.8613547351
C	-0.1330944149	4.9140107792	2.7137208374
N	-0.2047405278	4.1586931061	3.9615834842
N	-0.9204032858	4.6679968173	5.05176734
C	-2.2180118415	5.164312095	4.6167720733
C	-2.1096945712	6.2552295783	3.530716958
C	-0.6928552444	6.3188934271	2.9659348901
C	0.3690510748	2.9340669744	4.0240265279
O	0.942402616	2.4531307295	3.0485346791
C	0.3538082116	2.2229157158	5.3717959938
C	1.4467880344	2.8004907473	6.2799724372
N	0.5741256955	0.8126033926	5.1092256078
C	0.3662677595	-0.1232734838	6.0383065298
O	-0.0334259953	0.132187962	7.1819819979
C	0.6581619706	-2.5393182175	6.805129638
C	0.6990770755	-1.5704365721	5.6155928679
N	-0.1972934659	-2.0624286938	4.5575584383
N	-1.2745536961	-2.8804058315	4.7753368693
C	-1.5478031254	-3.2422203221	5.9677138734
C	-0.7839504343	-2.8499556347	7.1903810836
C	0.0834721557	-1.7713602978	3.2536815281
O	1.0335180044	-1.0652757475	2.9432755513
C	-0.8520269576	-2.3672778752	2.2086420214

O	-0.5790907737	-1.7587531635	0.9524931618
O	-0.8538919861	-3.910308754	8.1165239657
Cl	-2.5471329177	7.8943549825	4.1835188648
C	-1.230183303	-0.5713535938	-1.6097366788
C	1.019640949	0.044293275	-0.5886778748
O	1.4813330359	0.1904809854	-1.9024995709
O	1.3908417285	-2.0643129453	7.906237457
H	-2.4095225573	-3.8942301995	6.0807391821
H	-1.5281277269	1.7616221843	0.476512643
H	-2.305839847	3.6960241178	-0.3921471301
H	-2.1422557837	5.6486204417	-1.6462884374
H	-1.7821012745	4.3876448138	-2.822854936
H	-0.2321502427	6.4099068025	-2.9437674085
H	-0.0983102005	6.9188805992	-0.5192732048
H	1.5271740793	6.5520994898	-1.1087486855
H	1.3444722376	4.3868797259	-0.2508756408
H	0.9061102555	4.997833799	2.3979838043
H	-0.3786258251	5.4161059	5.4793648553
H	-2.7512525908	5.5282589178	5.4961481484
H	-2.7662412754	4.3156853088	4.2045495464
H	-2.8389486833	6.0749996762	2.7419050391
H	-0.6679114553	6.8960658548	2.0405246496
H	-0.0355031717	6.8261249899	3.678062944
H	-0.617933791	2.3536538213	5.8505775556
H	1.2485537707	3.8495528084	6.5086959076
H	1.4682812342	2.2416474212	7.2169832524
H	2.4239715623	2.7218578252	5.7962546038
H	0.9282353841	0.5523395847	4.1908392774
H	1.1280512418	-3.478217378	6.4979061996
H	1.7054756417	-1.570207797	5.1896990738
H	-1.2333224166	-1.9343214159	7.6053104746
H	-1.8942809539	-2.2281580567	2.4896442773
H	-0.6549654161	-3.4315120992	2.0785852283
H	-0.2766357367	-3.6553829977	8.8516742114
H	-0.900914379	-1.6106745005	-1.6619859155
H	-2.3139395438	-0.5444722503	-1.4736909072
H	-0.9791961008	-0.0806351395	-2.5500197585
H	1.3190906516	-0.9503584063	-0.2556532164
H	1.4660626641	0.7791316585	0.0969927866
H	1.1134502381	1.043051536	-2.2157755716
H	0.9911596747	-1.1972853681	8.1120552354
H	0.6235616513	4.8855154322	-2.695904656

1a conf_4

energy (M062X/6-31g(d,p)) = -2585.274681 Hartree

C	0.1172960095	-2.5608495341	-1.5917812232
O	0.3970051988	-1.8114949508	-2.4978757302
C	1.1216915705	-3.2411780141	-0.6672221719
N	2.4116881431	-2.6433372932	-0.9806608056
C	3.5341153948	-2.8645249797	-0.2617391672
O	3.6762460418	-3.7860507987	0.5388428233
C	4.620307717	-1.8029275348	-0.4898107029

C	6.027488184	-2.2601577916	-0.1041682303
C	6.2611535485	-2.2716142604	1.4056977591
C	5.8195857045	-0.9464106677	2.0136382589
N	4.4367518218	-0.6041142768	1.6703293339
N	4.2490694682	-0.6067082488	0.2811309169
C	3.5073177345	0.3754876521	-0.286104178
O	3.1394185263	0.3082419074	-1.4611081321
C	3.1850929868	1.5933258547	0.5895287029
N	2.1512630725	2.3916213717	-0.0466255112
N	2.4790536598	3.0891598543	-1.2167772811
C	3.6241149547	3.9701423715	-1.0054567406
C	4.812730186	3.2016990868	-0.4366230281
C	4.4212915009	2.4770893468	0.8407285727
C	0.9015045042	2.4759176077	0.4859498954
O	0.5825860545	1.8799614547	1.5096952936
C	-0.106034918	3.3828929634	-0.223963172
C	-0.207057618	4.7161331693	0.5133238047
N	-1.3903796893	2.7080547026	-0.2469544698
C	-1.8537651436	2.1158641267	-1.3573317165
O	-1.2942519485	2.1871329741	-2.4568095559
C	-4.2051118282	2.263835725	-2.143182217
C	-3.2323778703	1.4591588588	-1.2573178695
N	-3.1755491782	0.0786698924	-1.7438860935
N	-4.1744194946	-0.5240081467	-2.4592576198
C	-5.2515282896	0.1231640814	-2.6837202758
C	-5.5309807475	1.5235999938	-2.2023675393
C	-2.1945142341	-0.7528048188	-1.2920141232
O	-1.3708082217	-0.3681318157	-0.4721423683
C	-2.1750644094	-2.1597354214	-1.8775714896
O	-1.1360006388	-2.8981869573	-1.2566204485
O	-6.0865908425	1.5288694561	-0.9000456077
Cl	6.1787865031	4.344693236	-0.1107398888
C	1.1058275684	-4.7529130333	-0.9265830406
C	0.7289153516	-2.9328998049	0.7975321977
O	0.7747529137	-1.5588766838	1.0895773465
O	-3.7631643559	2.3834183989	-3.468665417
H	-6.00442968	-0.4187103198	-3.2493602503
H	2.3759309103	-1.7914761904	-1.5330729524
H	4.6023381025	-1.4995325707	-1.5381717817
H	6.7367129846	-1.5712194815	-0.5764420956
H	6.2034951775	-3.2503467272	-0.5329604244
H	7.3212089737	-2.4443889396	1.6172878198
H	6.4571918637	-0.1285432088	1.6604495299
H	5.8766417513	-0.96460131	3.1050393057
H	3.8024996418	-1.296609934	2.0692400837
H	2.7886027689	1.2518740636	1.5439963779
H	2.6940238693	2.3803505317	-1.9169018383
H	3.3325770372	4.7650453652	-0.3124406611
H	3.8740884707	4.4245483742	-1.9664625597
H	5.1992347637	2.5019441054	-1.1814545184
H	5.2444684715	1.8695110612	1.2183716162
H	4.1630464087	3.2125725676	1.6091736495
H	0.1909133327	3.5411645877	-1.2571284294
H	-0.9537237727	5.3523263004	0.0326363952

H	-0.494523476	4.5609369455	1.5571923306
H	0.7544765019	5.2354937945	0.4963658109
H	-1.7724504631	2.4261031606	0.6453763907
H	-4.3501484877	3.2414985848	-1.6642475475
H	-3.6130640071	1.4706568733	-0.2316432492
H	-6.1829574686	2.0340781388	-2.9200030095
H	-2.0386786933	-2.1141009394	-2.9595174481
H	-3.0983284847	-2.6920273521	-1.6586225796
H	-6.9608268417	1.117237609	-0.9394837284
H	1.3640724844	-4.964193374	-1.9671676516
H	1.8402607172	-5.2332359656	-0.2794108438
H	0.1165527359	-5.1656993195	-0.7180291806
H	1.4576303485	-3.4233233317	1.4440629914
H	-0.2574727129	-3.3673983751	0.994727872
H	0.0311183865	-1.1238677303	0.6345266028
H	-2.7836733132	2.3872604045	-3.442061682
H	5.6940368072	-3.0883364519	1.8603865654

1a conf_5

energy (M062X/6-31g(d,p)) = -2585.2740974 Hartree

C	-1.0414456081	-0.4401468464	0.8800133755
O	-1.649821675	0.1434804347	1.7488301997
C	-0.655684115	0.1754164533	-0.4640572679
N	-1.0975718289	1.5664192658	-0.369732756
C	-0.8220534039	2.554308477	-1.2347131704
O	-0.1428431219	2.4269617554	-2.2602090021
C	-1.3970722799	3.9177890719	-0.8199201823
C	-1.4684350591	4.9328760959	-1.9614142515
C	-0.1216648077	5.5809009613	-2.2756829475
C	0.5237779712	6.0916105054	-0.993746807
N	0.6508957318	5.0406919381	0.0201870081
N	-0.5914423772	4.4490066131	0.2877288466
C	-0.9473687827	4.1976383577	1.5706989008
O	-1.9594526923	3.5482712619	1.8430628217
C	-0.0306407077	4.7443609201	2.6709746265
N	-0.2935552674	4.0293721677	3.9089474631
N	-1.4865229522	4.294136804	4.5982944168
C	-1.6146804484	5.7160942889	4.8946461546
C	-1.5051303022	6.5467313753	3.6200478657
C	-0.1957962885	6.2555305558	2.9053963832
C	0.4270715898	2.9180317748	4.2146713245
O	1.3590175026	2.5385276823	3.5103066283
C	0.0653526249	2.1816639105	5.5019610467
C	0.5890232198	2.9366350326	6.7271587567
N	0.6474702207	0.8589253481	5.3943686345
C	0.107094555	-0.2048576477	6.0131977901
O	-0.8320899401	-0.1264251019	6.8016581791
C	0.8572403856	-2.550859185	6.7551705446
C	0.727457022	-1.5517085275	5.6031363428
N	-0.1066089231	-2.1399426825	4.5487086528
N	-1.1178242599	-3.0281722798	4.7881545684
C	-1.299596825	-3.4468934388	5.9807100345

C	-0.5083302484	-3.0540214857	7.1885267378
C	0.0833373181	-1.749891058	3.2513099006
O	0.9743245423	-0.9776091538	2.9351052392
C	-0.8911188953	-2.3298525824	2.2317443129
O	-0.6575405121	-1.71596174	0.9703774317
O	-0.4078114733	-4.1847830428	8.0283206749
Cl	-1.6129563811	8.3076504901	4.0225171916
C	-1.4061784302	-0.5641153356	-1.5806516009
C	0.8839268001	0.0508516008	-0.6532610847
O	1.2986630657	0.1656802228	-1.9857893138
O	1.4803696112	-1.9782915989	7.8818363253
H	-2.1075054594	-4.161074429	6.1134298163
H	-1.6274561352	1.7981504962	0.468383021
H	-2.3948751553	3.7563167877	-0.4083831873
H	-2.1814338665	5.7084222568	-1.6608566591
H	-1.8801849942	4.4389134183	-2.8450308066
H	-0.2627595299	6.407511073	-2.9790665936
H	-0.0702229888	6.9005146717	-0.5550450965
H	1.5305763762	6.4767251662	-1.1738052252
H	1.2773501498	4.3134682012	-0.3252924377
H	1.002044896	4.5445478703	2.3921760573
H	-2.2440353153	3.9924967921	3.9848342453
H	-0.8255091654	6.0026958152	5.5961871778
H	-2.5814144339	5.8671361691	5.379364472
H	-2.3613055221	6.3489631928	2.970770347
H	-0.1380432705	6.7847040375	1.9528325758
H	0.6362546027	6.594082824	3.5304628118
H	-1.0180333091	2.081270279	5.5852406455
H	0.1027048943	3.9100755544	6.8164313847
H	0.3706880219	2.3539625583	7.6246188374
H	1.6702576731	3.0822644909	6.6569932775
H	1.3087171266	0.7281330984	4.6362780694
H	1.4247547395	-3.4162917193	6.3899200175
H	1.7117649065	-1.3855140398	5.161134742
H	-1.0272983607	-2.2261588978	7.69145383
H	-1.9215986133	-2.1791296494	2.5518572923
H	-0.7160783318	-3.3952177961	2.0849942446
H	0.086863741	-3.8943778682	8.8078956316
H	-2.4839275638	-0.5261876409	-1.4051474154
H	-1.1867201218	-0.0912281579	-2.5379065944
H	-1.0869552023	-1.6068220592	-1.6274495327
H	1.1888355225	-0.93880066	-0.3107432493
H	1.3612843325	0.7958773177	0.0001088833
H	0.9302087136	1.0166333412	-2.3016311725
H	2.436379594	-1.9833242565	7.7395337722
H	0.5408874954	4.8522301035	-2.7521331775

Compound **1b**

1b conf_1

energy (M062X/6-31g(d,p)) = -2585.3002203 Hartree

C	0.2110346258	-0.3641122351	1.4280147969
O	-0.4121259153	0.0371648846	2.386035508
C	0.3772155275	0.3988514103	0.1212425443
N	-0.6225205949	1.4534303298	0.1504223872
C	-0.6324053003	2.4756438757	-0.7374017625
O	-0.0657020188	2.4480012086	-1.8252651824
C	-1.3846683788	3.719060609	-0.2343254325
C	-1.6999158456	4.7336300466	-1.3318354906
C	-0.4684431342	5.521181077	-1.780104308
C	0.2752318827	6.0747197406	-0.5697481655
N	0.5953978684	5.0449124295	0.4194569459
N	-0.5589349751	4.3491502491	0.8054433961
C	-0.7116346406	4.0085353566	2.104803151
O	-1.5974543969	3.2350450144	2.4783349943
C	0.2752536891	4.6277548486	3.0999869695
N	0.2692015946	3.8504858133	4.3295834961
N	-0.836245463	3.9489441974	5.1879790159
C	-1.1052834236	5.3366996462	5.5494521838
C	-1.2689792933	6.2023048566	4.3047492811
C	-0.036351202	6.099222719	3.4227891695
C	1.1722769931	2.8625839207	4.5203724833
O	2.0319827092	2.5898247034	3.6787861791
C	1.1402797115	2.1278257142	5.8587589061
C	1.6856187479	3.012867149	6.9837487418
N	1.9441830166	0.9349709059	5.6820315379
C	1.7652768943	-0.1730052898	6.405543355
O	0.9659122959	-0.2335331677	7.3498403028
C	2.9915778953	-2.3872960163	6.9910072725
C	2.5837925717	-1.3744492825	5.9122097697
N	1.7972696539	-2.0600146584	4.8820093691
N	0.869251637	-3.0179038468	5.1823073096
C	0.8552199218	-3.520617318	6.357117175
C	1.7991163263	-3.2114733742	7.4896444123
C	1.8146506843	-1.5861450401	3.59743978
O	2.5575747203	-0.6768586571	3.2595877678
C	0.8588746255	-2.2574506064	2.622580029
O	0.8609237961	-1.5332666467	1.4010024405
O	1.1435882723	-2.5805149707	8.5714371095
Cl	-1.5438641849	7.9235497874	4.788402412
C	0.1965033897	-0.5402872519	-1.0749300818
C	1.8173471192	1.0130667752	0.0949691819
O	1.9398156321	2.2074826547	0.8218364394
O	3.6421345059	-1.7504710431	8.0567584875
H	0.0750209796	-4.2556337737	6.5337530267
H	-1.0333786667	1.6277087747	1.0643520884
H	-2.3035593471	3.3996246217	0.2614657712

H	-2.4525559575	5.4242515798	-0.9354378536
H	-2.1531168361	4.2081585523	-2.1764635767
H	-0.7699712885	6.3419867066	-2.4388117968
H	-0.3263304439	6.8379615302	-0.0635873589
H	1.222388146	6.5376707743	-0.8589718624
H	1.2516258132	4.3586902146	0.0427677179
H	1.2770685351	4.5683196132	2.6804240369
H	-1.6257528938	3.5602000309	4.6714827928
H	-0.2760050143	5.7117218837	6.1566935497
H	-2.0116737133	5.3466764591	6.1580277514
H	-2.169860123	5.91016996	3.7601112517
H	-0.1643639607	6.6558933963	2.4931304392
H	0.8222602907	6.5208784157	3.9545219148
H	0.1172994876	1.8335945998	6.0990782475
H	1.0420795067	3.880710391	7.1364183999
H	1.7145673844	2.4343144728	7.9092704723
H	2.6975765137	3.3533394053	6.749789956
H	2.5117858572	0.9021304645	4.8392867324
H	3.6995910839	-3.0720604496	6.5121100728
H	3.4859297901	-1.0055181188	5.4227691162
H	2.1717365629	-4.161780686	7.883862175
H	-0.1451412079	-2.311609776	3.0415964826
H	1.1971694563	-3.2647329716	2.3788797962
H	0.8439294739	-1.7063113013	8.2231077704
H	0.2243740463	0.0499947802	-1.9906401713
H	0.9943913217	-1.284924225	-1.1015128484
H	-0.7629826546	-1.059889416	-1.0170692921
H	2.0408153683	1.2640473221	-0.9426024337
H	2.5274470877	0.2489652059	0.4298004991
H	1.9526110265	2.0434704067	1.7811870805
H	2.9639230465	-1.6667412904	8.750603098
H	0.1971237887	4.8662119287	-2.3484669238

1b conf_2

energy (M062X/6-31g(d,p)) = -2585.2908899 Hartree

C	-0.7031463083	-1.1889772407	-1.0217277772
O	-0.429254126	-0.1877366689	-1.6402803626
C	0.307195505	-2.1855719448	-0.4728147385
N	1.5845599821	-1.8237432664	-1.0638893314
C	2.7486537817	-2.3646237316	-0.6301259827
O	2.8271468011	-3.4119589704	0.0000193239
C	3.9891088599	-1.5090414168	-0.9360610538
C	5.3037369805	-2.2734027653	-0.7826001146
C	5.6599751179	-2.5403752165	0.6807635594
C	5.5389585082	-1.2592823644	1.4998752885
N	4.2480423362	-0.5934434232	1.3405102435
N	3.9748914874	-0.3647519673	-0.0145197745
C	3.3718211704	0.7942246664	-0.3694230495
O	2.933868576	0.9813115045	-1.5054168807
C	3.2687449445	1.873987637	0.7137763807
N	2.2560641004	2.8444344251	0.330643532
N	2.5296952997	3.7146800584	-0.735455547

C	3.7658022112	4.4512938513	-0.5045131817
C	4.9313441061	3.5072332277	-0.2211989026
C	4.6010754472	2.6021378174	0.9543662562
C	0.9788662811	2.7087433828	0.7671577963
O	0.6425845641	1.8035283738	1.5286031624
C	-0.0225724888	3.776118143	0.3395477788
C	0.2093952465	5.078147966	1.1118527192
N	-1.3395142785	3.2261788188	0.5951473279
C	-2.4067948794	3.645640659	-0.0864129897
O	-2.3615396776	4.6166734542	-0.8507006844
C	-4.9389441238	3.7553006544	-0.1653286471
C	-3.7267294844	2.8702054528	0.1766012332
N	-3.7578910202	1.5996379465	-0.5700057636
N	-4.7633511121	1.2416086344	-1.4492879356
C	-5.8819859954	1.8389829539	-1.3266015571
C	-6.1954211791	2.9027984975	-0.3062396646
C	-2.9301055477	0.5710995542	-0.212897344
O	-2.2011837597	0.6220417857	0.7658488707
C	-2.9766750875	-0.6572684103	-1.1135543274
O	-1.9586475737	-1.5642674847	-0.7276479309
O	-7.2885462266	3.686192736	-0.6969672294
C1	6.4235434022	4.4583624127	0.1193524009
C	-0.1126653879	-3.6132334852	-0.8405220975
C	0.3689853454	-2.0421874219	1.0862450842
O	1.1987876622	-1.0006432679	1.5236983052
O	-4.8540725905	4.4058065445	-1.4056587421
H	-6.6624403288	1.5475553316	-2.0249351815
H	1.616686931	-0.8963142797	-1.4794676376
H	3.9008596461	-1.0877149158	-1.9397747696
H	6.0927728292	-1.6740311191	-1.2522483782
H	5.2319239431	-3.2135670972	-1.3358141169
H	6.680715225	-2.9316294458	0.7512843288
H	6.3135673365	-0.5406568147	1.2055358082
H	5.6634394192	-1.4544809491	2.5688703481
H	3.4785120385	-1.1505197581	1.7177592607
H	2.9446714801	1.4094030574	1.6427338467
H	2.6174237767	3.11948585	-1.5605604325
H	3.622914484	5.123870683	0.3472409273
H	3.9606013227	5.0607393254	-1.3900393668
H	5.1559342518	2.9174334555	-1.1139875408
H	5.3916635908	1.8702875234	1.129323423
H	4.5039080539	3.2125997289	1.8580989644
H	0.0752259735	3.9808973027	-0.7278860806
H	1.1875873157	5.4969186054	0.8675648807
H	-0.5577066972	5.8008240903	0.8271843345
H	0.1518908581	4.9027864951	2.1895472583
H	-1.3827415635	2.342743863	1.101200107
H	-5.0592433915	4.4778596501	0.6549686181
H	-3.7689140267	2.6251739334	1.2443895851
H	-6.4573009991	2.4262097758	0.6468052043
H	-2.8670808708	-0.3594254288	-2.1574810746
H	-3.9159221126	-1.1968362386	-0.9973833313
H	-6.9294851247	4.2984389448	-1.360840044
H	0.674215971	-4.2993867281	-0.5274438981

H	-1.047948176	-3.8763841832	-0.3421988
H	-0.2551694872	-3.7076703607	-1.9200915924
H	0.8038622335	-2.9644267704	1.4740814156
H	-0.6527426288	-1.9461973689	1.4695167998
H	0.75164694	-0.1375673856	1.4699938824
H	-3.9415846616	4.7714286568	-1.4541414772
H	4.982949578	-3.2990095402	1.0804370762

1b conf_3

energy (M062X/6-31g(d,p)) = -2585.2878379 Hartree

C	0.3946904267	-0.4342684097	1.3539958399
O	-0.2993416154	-0.0789474513	2.2798094511
C	0.5949671348	0.3634224016	0.0698878488
N	-0.2927745964	1.5098881218	0.1861010126
C	-0.4901802141	2.4471011575	-0.7612602941
O	-0.1033723882	2.3587506778	-1.9279193256
C	-1.2132009032	3.7001739018	-0.23674266
C	-1.5078776733	4.7272684404	-1.3279909249
C	-0.25598434	5.4852303824	-1.7696189969
C	0.4944786839	6.0232115381	-0.5564285443
N	0.7889550386	4.9831723369	0.4327600567
N	-0.3823591263	4.3094995308	0.8095481552
C	-0.6003699728	4.0293066035	2.1153919882
O	-1.5045743163	3.2665000302	2.4677392405
C	0.3274405561	4.6913065718	3.1397259103
N	0.2852100943	3.9346490841	4.3805325445
N	-0.8698434964	4.0030022705	5.1732688437
C	-1.1900949674	5.3867060229	5.5079906869
C	-1.3157470224	6.2364433805	4.2471442816
C	-0.0423248826	6.157974825	3.4211125832
C	1.2205559126	2.9835679089	4.6300962773
O	2.1642410899	2.7851591851	3.8689016803
C	1.0827320283	2.1873355952	5.9270492649
C	1.5309234543	3.0181732568	7.132512045
N	1.906118565	1.0053083356	5.7554766929
C	1.6856523605	-0.1339454207	6.4149771242
O	0.8121196843	-0.2423739599	7.2872708961
C	2.9529956766	-2.3030261733	7.0579749167
C	2.5633255796	-1.3070950119	5.9556960101
N	1.8553046917	-2.022664198	4.8894809367
N	0.9615732804	-3.0257948646	5.139498105
C	0.9072085205	-3.5307912668	6.3120896465
C	1.7711986841	-3.1766353859	7.4936542438
C	1.9362321609	-1.5594151908	3.6032488027
O	2.6559117444	-0.6186010426	3.3070877522
C	1.0893996755	-2.2916723016	2.5705927282
O	1.1130063578	-1.5606534409	1.3496619608
O	1.0291553069	-2.5706921156	8.5332067731
Cl	-1.6566766612	7.9553937958	4.6984011053
C	0.2656434155	-0.5127686637	-1.1455590446
C	2.0873335633	0.8314261736	0.0791672899
O	2.3188037077	2.0044775861	-0.66255718

O	3.5151904402	-1.6383749183	8.1567363505
H	0.1555798825	-4.3035945742	6.44604665
H	-0.6816961566	1.6684528657	1.1123009341
H	-2.1378051096	3.3882988421	0.2539344825
H	-2.2433637679	5.4327466056	-0.9264003821
H	-1.9714692133	4.2162193304	-2.1751285684
H	-0.5335848429	6.3111570266	-2.4321527972
H	-0.0923890082	6.7979759741	-0.0511882867
H	1.452582443	6.4656311742	-0.8412280484
H	1.4284685167	4.2889417843	0.039216016
H	1.3480401272	4.6512941185	2.7654627547
H	-1.6201275604	3.5942729977	4.6154519232
H	-0.3991162823	5.7864116459	6.1496260846
H	-2.1249958127	5.3821222275	6.0721109409
H	-2.1831471851	5.9163149592	3.6652570101
H	-0.1476089307	6.6994409263	2.4792119034
H	0.779320848	6.6129286997	3.9828081698
H	0.0463073404	1.8781239377	6.070385355
H	0.8719676533	3.8772523986	7.270606
H	1.488613023	2.3989199021	8.0309299586
H	2.5563599249	3.3714305735	6.9963723933
H	2.540149414	1.0211303418	4.9615660064
H	3.7148994289	-2.9575282165	6.6213965427
H	3.4753308828	-0.9082144337	5.5102518018
H	2.1625468255	-4.1079684241	7.9140866333
H	0.0680945402	-2.421888165	2.9249218586
H	1.5162888157	-3.2689205164	2.3445857229
H	0.7087175815	-1.7137523068	8.1606324179
H	0.8925446407	-1.4055463924	-1.1393272825
H	-0.7835630408	-0.8177515943	-1.1174752346
H	0.4346303841	0.0394465887	-2.0690823849
H	2.7010406571	-0.0052365326	-0.2781064742
H	2.3935676859	1.0564956088	1.1039144015
H	1.8033279071	1.9604036146	-1.4851376377
H	2.7959969051	-1.5850606797	8.8113965635
H	0.3978458244	4.8153203929	-2.335957503

1b conf_4

energy (M062X/6-31g(d,p)) = -2585.2865694 Hartree

C	0.2302918614	-0.4571161173	1.4541475459
O	-0.3797836472	-0.0076614618	2.3982524785
C	0.3253058314	0.2189410545	0.0875418074
N	-0.3838669684	1.4868189406	0.2559454291
C	-0.4221116638	2.5047027086	-0.6175423911
O	0.1497799069	2.5168653069	-1.7136895202
C	-1.2248413396	3.7173076588	-0.1194054693
C	-1.6064776091	4.702462411	-1.2245398921
C	-0.4548264448	5.6161206363	-1.638595911
C	0.1848331097	6.2419849178	-0.4056293336
N	0.6150313667	5.2347726203	0.568579059
N	-0.4503139291	4.3972707925	0.927401503
C	-0.6315826178	4.0700613348	2.2293454792

O	-1.4620588124	3.2254962681	2.5718265199
C	0.2537472877	4.7798133628	3.2596670729
N	0.254151697	4.0113347651	4.4938521982
N	-0.8968289061	4.023341447	5.2960106444
C	-1.2754518257	5.387451306	5.6459308308
C	-1.4531334691	6.2387091706	4.3926962995
C	-0.1855354518	6.2239528452	3.55426729
C	1.2030144104	3.0614493563	4.6969683352
O	2.1187435112	2.8786893627	3.8991152641
C	1.1215341693	2.2549795941	5.9917502582
C	1.597999193	3.0892834685	7.1840575507
N	1.9556364711	1.0863933116	5.7843498114
C	1.7908130906	-0.0501347597	6.4643427778
O	0.9700259089	-0.1622103238	7.3860478144
C	3.135740064	-2.1883141285	7.0474544999
C	2.6494950369	-1.2184883503	5.9607890038
N	1.8668729903	-1.961692945	4.9689286031
N	0.9979889727	-2.9588358196	5.3119978691
C	1.0423460142	-3.4408511136	6.4947343017
C	2.000503382	-3.0625624694	7.5932742239
C	1.8423824431	-1.5307460739	3.668650685
O	2.5391660567	-0.6046955062	3.2862876233
C	0.8981236406	-2.2811958223	2.7370770338
O	0.8746249605	-1.6268730284	1.4751013501
O	1.3440045369	-2.4433534999	8.6817088489
Cl	-1.8678834902	7.9373260374	4.8577616929
C	-0.3747674383	-0.6669633531	-0.9526704496
C	1.8259394154	0.418569161	-0.2733869959
O	2.0550606567	0.6119976298	-1.6410628129
O	3.7747036657	-1.4955838109	8.0853419411
H	0.3066250628	-4.21166665	6.7061630199
H	-0.8612338549	1.6027037455	1.1479506278
H	-2.1265707723	3.3487473673	0.3728354371
H	-2.433317656	5.3120965454	-0.8439719348
H	-1.9857591176	4.1393334148	-2.0807996316
H	-0.8245923857	6.3998694312	-2.3071207284
H	-0.520498429	6.9086278733	0.1019681457
H	1.0710722351	6.8273424229	-0.6630903082
H	1.3455869441	4.6553025629	0.1547761488
H	1.2753418365	4.795283163	2.8850876711
H	-1.6339747984	3.583441731	4.7443455396
H	-0.4960656163	5.8172826072	6.2821276717
H	-2.2028329682	5.3360295858	6.2200057034
H	-2.3109236899	5.8825840179	3.817269437
H	-0.3239247826	6.7649595443	2.6168341738
H	0.6181827979	6.7146315759	4.1117399232
H	0.0953219778	1.929947268	6.1695908162
H	1.5952053312	2.4677180648	8.0817178838
H	2.6126433502	3.4586015002	7.0140104571
H	0.9311941099	3.9381757535	7.3460156248
H	2.5480677929	1.1098565085	4.9595898327
H	3.8676331873	-2.844735065	6.564795388
H	3.5180471244	-0.8184460252	5.4366998509
H	2.4322150021	-3.9845600805	7.9943444572

H	-0.1022547798	-2.3371981209	3.1648322089
H	1.2604022898	-3.2911450896	2.5458521574
H	0.9758557774	-1.6020488883	8.3180883316
H	-0.3706993372	-0.1612928437	-1.9182896549
H	0.1494089081	-1.6185948661	-1.0569694
H	-1.4091754875	-0.8573495419	-0.6566978329
H	2.3668870955	-0.4841137586	0.0136907144
H	2.2079638317	1.249822277	0.3373269551
H	1.4834355951	1.3649983842	-1.8978378322
H	3.1111355334	-1.4443003512	8.7967968899
H	0.297201855	5.0422790519	-2.1883586145

1b conf_5

energy (M062X/6-31g(d,p)) = -2585.2836836 Hartree

C	0.5685636654	-0.3561485099	1.0086519086
O	-0.290949994	0.0156970037	1.7703654684
C	1.0900845443	0.4446417079	-0.1927492663
N	0.4746443301	1.7576525191	-0.1357191939
C	-0.7608778318	2.1087512565	-0.5630754037
O	-1.4543102002	1.4611292187	-1.3369288679
C	-1.3138983572	3.4360304814	-0.0126085216
C	-1.7693265251	4.3831789792	-1.1288771079
C	-0.6073068004	5.1894241726	-1.7004187004
C	0.1430000828	5.8796270224	-0.5671483421
N	0.6197520463	4.9324465783	0.4464374213
N	-0.4233796748	4.1192117051	0.9223203113
C	-0.6758690171	4.0653908146	2.2606398375
O	-1.6289825708	3.4317797892	2.7094624754
C	0.303586473	4.786581563	3.1945078012
N	0.3147149579	4.0890555042	4.4747001224
N	-0.8016992096	4.2059201716	5.3172501268
C	-1.0835449174	5.6080675145	5.6056679688
C	-1.2746516234	6.3967264741	4.3134863302
C	-0.0514477534	6.2657423258	3.4203654127
C	1.2266221303	3.1104488332	4.7040179125
O	2.144236758	2.8807484894	3.9203041254
C	1.0898739294	2.3067330552	5.9974910823
C	1.6068456707	3.0960227433	7.202709141
N	1.8539998594	1.0917278923	5.7841696892
C	1.5389752413	-0.078574775	6.3423112555
O	0.6165461591	-0.2055223091	7.1594127067
C	2.7273850962	-2.3002972301	6.9300829811
C	2.3869062078	-1.260523162	5.8503714763
N	1.6853148828	-1.9245170303	4.7458573064
N	0.7799750799	-2.9333458472	4.9350064609
C	0.689343091	-3.4765394506	6.0875123485
C	1.5195317837	-3.1664417275	7.3048068078
C	1.8137853229	-1.443490961	3.4763988496
O	2.5395047265	-0.4848434914	3.2353945359
C	1.0297612388	-2.1751171414	2.3930564315
O	1.2379801737	-1.513795003	1.154825631
O	0.752623767	-2.5765001495	8.3348393646

Cl	-1.57400632	8.1400016623	4.6974366226
C	0.8809155896	-0.305074294	-1.5067999827
C	2.603682592	0.6854199172	0.0214190495
O	2.8518834675	1.4688814617	1.1616116529
O	3.2661077227	-1.6786227358	8.0648108646
H	-0.0702315618	-4.2483834846	6.1729830233
H	0.8534066848	2.2969781365	0.6343457098
H	-2.1821475938	3.1351102622	0.5778365865
H	-2.5146236403	5.0681683063	-0.7104610278
H	-2.2649675671	3.7866628334	-1.8977388739
H	-0.9783978631	5.9322169175	-2.4132464458
H	-0.505653304	6.6061126124	-0.0659507808
H	1.0243900135	6.4144385282	-0.9297272853
H	1.3240716171	4.328840238	0.0243903997
H	1.3063785332	4.7247332874	2.7785303859
H	-1.583619701	3.7925888242	4.8078773778
H	-0.2502904503	6.0244053056	6.179593295
H	-1.9832536113	5.6452018835	6.2233279649
H	-2.1764872851	6.0576515424	3.7993159211
H	-0.2090004362	6.7592670496	2.4592555875
H	0.8017387706	6.7462307311	3.9093076945
H	0.0463085798	2.0371465802	6.1640080823
H	0.996366929	3.9862106878	7.3650765744
H	1.553125185	2.4682270161	8.0948833786
H	2.6460076922	3.397956742	7.0482285354
H	2.5203533503	1.1267947351	5.0188901423
H	3.4913862872	-2.9535743716	6.4958819723
H	3.3201983824	-0.8751623903	5.4383824052
H	1.8838194579	-4.1143861709	7.7118906834
H	-0.0289873608	-2.2154577486	2.6471703034
H	1.4048222615	-3.1907170759	2.2683157936
H	0.4567901381	-1.7049896485	7.9761065099
H	1.472082672	-1.2235414005	-1.4938996276
H	-0.1666295721	-0.5498446711	-1.6693703472
H	1.2214590826	0.3180540545	-2.3373588338
H	2.9729186093	1.2435511302	-0.8430581746
H	3.118883703	-0.2792769904	0.0623051854
H	2.7711042635	0.892914102	1.9440969386
H	2.527752915	-1.6307056004	8.6984671718
H	0.082029024	4.5348930079	-2.2490323199

1b conf_6

energy (M062X/6-31g(d,p)) = -2585.2783681 Hartree

C	-0.8243726895	-1.3599227158	-1.1041289812
O	-0.4947636933	-0.4549797883	-1.8348777707
C	0.1471039554	-2.3066770609	-0.4054763183
N	1.470184738	-1.8242979473	-0.809188894
C	2.6408023085	-2.1787905797	-0.2603710685
O	2.7785708232	-3.0116710372	0.6437646698
C	3.8487901953	-1.3880660782	-0.7714955107
C	5.1606945774	-2.1768051266	-0.7826332853
C	5.7748294711	-2.3543010507	0.6074569397

C	5.788160677	-1.0255418895	1.3568200876
N	4.4654048252	-0.3955728303	1.4034990127
N	3.9755616543	-0.2153502322	0.1029170967
C	3.3560272094	0.9474030931	-0.2365910758
O	2.8085710724	1.0825241812	-1.3283378372
C	3.3674460003	2.0786891743	0.7986974104
N	2.3446739321	3.0490147731	0.445667406
N	2.5637883612	3.8610707368	-0.6786908768
C	3.8117426914	4.5983209652	-0.5518146794
C	4.9851098504	3.6516433146	-0.3134172706
C	4.7251268589	2.7899599992	0.9118168443
C	1.0595453218	2.8406887689	0.8668185318
O	0.7766363558	1.9419889406	1.6461330204
C	0.0096215458	3.8282344368	0.3698356653
C	0.138406313	5.166868419	1.1021793845
N	-1.2875671119	3.2165326749	0.5933929346
C	-2.3366866869	3.5656806839	-0.1556650509
O	-2.2760581961	4.4873766755	-0.9786675097
C	-4.858130343	3.739610745	-0.1811077772
C	-3.6664340806	2.8103146722	0.1134545247
N	-3.7562355673	1.565862762	-0.6697839723
N	-4.8255328777	1.2289146667	-1.4771755721
C	-5.9203772147	1.85395817	-1.2933762965
C	-6.1506591359	2.9350739008	-0.26940566
C	-2.9263410055	0.5220616855	-0.3669696799
O	-2.1285124133	0.5701014921	0.5541990789
C	-3.061063837	-0.7190114281	-1.2468176005
O	-2.0977166967	-1.6733844308	-0.8321575548
O	-7.2265325064	3.7586801949	-0.6253238459
C1	6.509079645	4.5904735011	-0.1048359585
C	-0.0884410197	-3.7367517415	-0.9056166159
C	-0.082012525	-2.2172782055	1.1367058213
O	0.3620762244	-3.3414055565	1.8347807073
O	-4.7964291371	4.3857232162	-1.4246242524
H	-6.747634586	1.5743248652	-1.9409002245
H	1.4516265711	-1.0320570704	-1.4472506366
H	3.6393849203	-0.9977376241	-1.7680304839
H	5.8613761085	-1.6256505144	-1.4209052651
H	4.9898321902	-3.1479480401	-1.2558529764
H	6.7950865823	-2.7414980195	0.5148331824
H	6.4696145292	-0.3126662951	0.8788611794
H	6.1162890796	-1.1526491705	2.3923666496
H	3.821981138	-1.0206890537	1.8917971201
H	3.1029208016	1.6608036558	1.7689738007
H	2.5986685977	3.2329471996	-1.4829885555
H	3.7254940153	5.2982681024	0.2852162449
H	3.9550641593	5.1768909424	-1.4674961994
H	5.1425222307	3.030219654	-1.1995722028
H	5.5174812698	2.0535745007	1.0566201704
H	4.701803661	3.4327710386	1.7977094769
H	0.1325002691	4.005245135	-0.699687225
H	-0.6505055079	5.839479894	0.759857768
H	0.0441168241	5.0256975259	2.1822869615
H	1.1047106697	5.6259688652	0.8835108089

H	-1.3066612113	2.3417986122	1.1132284665
H	-4.9180840852	4.4658094228	0.6429825373
H	-3.6950176166	2.5380361153	1.1751310069
H	-6.3960677118	2.475821784	0.6962916366
H	-2.9341161463	-0.4511003893	-2.297114773
H	-4.0307739089	-1.1963651377	-1.1166040391
H	-6.8689877469	4.3500543423	-1.3085983823
H	-1.0879672349	-4.0729779305	-0.625729186
H	0.0194564381	-3.78591631	-1.9924291358
H	0.6375956191	-4.4043392253	-0.442048214
H	-1.1549739193	-2.1399353688	1.3129126098
H	0.3774240266	-1.2817841077	1.4884183655
H	1.3145628406	-3.4169684964	1.6379292729
H	-3.8666474274	4.6952127074	-1.5209122984
H	5.1927366905	-3.0855057541	1.1741043183

1b conf_7

energy (M062X/6-31g(d,p)) = -2585.2775984 Hartree

C	-0.6766592929	-1.520224002	-0.7618422783
O	-0.3031807734	-0.6642671434	-1.5211062991
C	0.2308614239	-2.416632111	0.0900475917
N	1.590807184	-1.9430981708	-0.070456205
C	2.4428372701	-2.2182034998	-1.0919515715
O	2.3403777589	-3.1469675931	-1.8749905455
C	3.6480475968	-1.2636842386	-1.2182373305
C	4.9648755245	-2.0382405327	-1.3089212836
C	5.4277006428	-2.4998327898	0.0710622724
C	5.4546012678	-1.317284822	1.0353784821
N	4.1694709594	-0.6169818983	1.1158620283
N	3.7130444988	-0.2572170158	-0.1626815477
C	3.4476408037	1.0531780216	-0.4366082639
O	3.2098756502	1.4376627868	-1.5770376103
C	3.3984420183	2.020131178	0.7528188263
N	2.4083043946	3.0520450208	0.4623633374
N	2.7072736676	4.0139468397	-0.5168688998
C	3.9513047836	4.700387986	-0.1946673409
C	5.0984879362	3.7085431483	-0.0186304274
C	4.7502502721	2.6851424618	1.0510039148
C	1.1082521153	2.8394347243	0.808972576
O	0.775042923	1.878298469	1.4917038808
C	0.0795156157	3.8690460393	0.3497893455
C	0.1919010125	5.1674336962	1.1525167876
N	-1.2173103312	3.2407864869	0.5237688411
C	-2.2661279618	3.5864810926	-0.2235731027
O	-2.225453171	4.5300759591	-1.0215163139
C	-4.7935262713	3.6444986119	-0.3549577054
C	-3.5742926694	2.7849276137	0.0290545323
N	-3.5870026225	1.4857848098	-0.670288746
N	-4.5698030475	1.1013300954	-1.5691200717
C	-5.6944811636	1.6929566477	-1.482345595
C	-6.0372211621	2.7731637148	-0.4897249213
C	-2.7851238766	0.4666285751	-0.2478702897

O	-2.0461661491	0.5787057436	0.723494668
C	-2.8885847504	-0.8336333656	-1.043185286
O	-1.9791032995	-1.7786199492	-0.5129334134
O	-7.1360136994	3.5318194107	-0.9103395753
Cl	6.6090042209	4.5861255789	0.4261017716
C	0.0271156293	-3.892183773	-0.2484051562
C	-0.1143799223	-2.1809433155	1.5826876199
O	0.2948073962	-0.9177788751	2.0301646115
O	-4.7006348533	4.2619481018	-1.6110237778
H	-6.4563922442	1.3834544006	-2.1933885897
H	1.7031405291	-1.0400739587	0.3770660995
H	3.4750744756	-0.7101686154	-2.1441959096
H	5.7233478186	-1.3819938152	-1.7508830271
H	4.8150410328	-2.8820978272	-1.9855467011
H	6.4210548615	-2.9564051162	0.0083378414
H	6.2083085653	-0.5869487107	0.7189967137
H	5.7057958125	-1.6279096455	2.0537400699
H	3.4738024686	-1.2335124488	1.534629268
H	3.0599388343	1.484053988	1.6369155648
H	2.8128693751	3.4968676256	-1.3915986152
H	3.8112374224	5.2720777372	0.7282427685
H	4.1641988472	5.4036649942	-1.0032357679
H	5.311306713	3.2173843895	-0.9712171495
H	5.5277737127	1.9229654372	1.1386201829
H	4.6749291083	3.194239326	2.0174791088
H	0.2204118322	4.0978078941	-0.7082331033
H	1.1604834608	5.6381224891	0.9743857784
H	-0.5932570331	5.8553105626	0.8318347908
H	0.0774522823	4.9707386163	2.2219935518
H	-1.2380358162	2.3689603631	1.0487539952
H	-4.9333856242	4.3871164038	0.4441430748
H	-3.6314067823	2.5723710254	1.1029337854
H	-6.3029034436	2.3128971792	0.4702992173
H	-2.6955803654	-0.6375593013	-2.0992448615
H	-3.8786976056	-1.2760959456	-0.9422167535
H	-6.7776884503	4.135265457	-1.5826160951
H	-0.9917114859	-4.1847874354	0.0176958849
H	0.2022772761	-4.0915750967	-1.3038422581
H	0.7305917383	-4.4970442734	0.3292772413
H	0.4464380052	-2.9166430141	2.1668150927
H	-1.1842553608	-2.355742583	1.7361626901
H	-0.3245434472	-0.2420744296	1.7078932984
H	-3.7917838881	4.6378246647	-1.6575119967
H	4.7478898258	-3.2708800547	0.4566072799

1b conf_8

energy (M062X/6-31g(d,p)) = -2585.2769394 Hartree

C	0.3142584814	-0.3970684448	0.9934452863
O	-0.3911672715	0.0802804305	1.8473821261
C	0.6445380889	0.2437095719	-0.3623663769
N	0.2476784846	1.6359905033	-0.3161013574
C	-1.0117595957	2.1229811753	-0.3742539906

O	-2.0043884465	1.4996728114	-0.7378456584
C	-1.1641761091	3.6106811167	-0.011025445
C	-0.7916570685	4.581329993	-1.1514811321
C	0.7156691896	4.817930336	-1.2844237649
C	1.3487752133	5.116064272	0.0740021694
N	0.9678822057	4.0308913611	0.972572049
N	-0.4189561149	4.007615958	1.181795123
C	-1.0590906387	4.5193486922	2.2649213977
O	-2.2799037679	4.4225323715	2.4122937151
C	-0.2122895734	5.1599007412	3.3662328326
N	-0.1468237321	4.2355002602	4.5005657725
N	-1.2788924546	4.0827794582	5.3110313934
C	-1.7199873975	5.3678406865	5.8476205538
C	-2.0043694913	6.3529353366	4.7213454665
C	-0.7829999637	6.5109967454	3.8303137354
C	0.8852869159	3.3638035786	4.6125636583
O	1.798705163	3.3288196976	3.7859234514
C	0.9067483837	2.462122188	5.8403583668
C	1.3775861442	3.2451291629	7.070603537
N	1.7952018674	1.3566118954	5.5358886505
C	1.7067511259	0.1839679381	6.169587409
O	0.8966200189	-0.0116670898	7.0856358394
C	3.2081607541	-1.8530334408	6.70388261
C	2.6324682926	-0.9148887611	5.6321435627
N	1.8775108796	-1.7092008657	4.6583735512
N	1.0677382556	-2.7514524738	5.0229222114
C	1.175389683	-3.229980986	6.2022763795
C	2.1459519564	-2.8047021946	7.2717051112
C	1.8291403233	-1.317569234	3.3540605631
O	2.4903815688	-0.363595556	2.9575229855
C	0.9190835924	-2.1298372812	2.4414100162
O	0.9587875222	-1.5727954901	1.1389543002
O	1.4855883171	-2.2418655756	8.3874437496
Cl	-2.4598717881	7.9599534075	5.4225479825
C	0.0084928721	-0.5503619735	-1.5058061958
C	2.1793317772	0.2392170143	-0.5393896338
O	2.839876485	0.9653962899	0.4666692254
O	3.8188989523	-1.1206978461	7.7305582713
H	0.486554994	-4.0367443985	6.436303517
H	0.9242507651	2.257599753	0.1373932831
H	-2.2176752756	3.7274809702	0.2345865964
H	-1.2868563317	5.5338396731	-0.9300509152
H	-1.2127543649	4.2122623279	-2.0914369719
H	0.8961375185	5.648508383	-1.9730799838
H	1.0196028024	6.0953953277	0.4544514895
H	2.4390895155	5.1214387425	0.0056295894
H	1.46450072	3.9528176476	1.8573738493
H	0.8111409104	5.3320927151	3.0422699162
H	-2.0175746204	3.6875235609	4.7287257941
H	-0.9369529164	5.7575697872	6.5044909736
H	-2.6143930058	5.1840380246	6.4461985042
H	-2.8672892629	6.0290719044	4.1419887645
H	-1.0144805322	7.1266463274	2.9578708346
H	0.0033589194	7.0197021604	4.39683867

H	-0.0912845453	2.0659300323	6.029931204
H	0.669940753	4.0403279418	7.31226255
H	1.4411726133	2.5664255984	7.9231727408
H	2.3623223593	3.6849695734	6.8934900597
H	2.4043589691	1.471104523	4.733638807
H	3.9716643394	-2.4564164707	6.2016157377
H	3.458200413	-0.4558186144	5.0882904403
H	2.646700383	-3.7028316811	7.6453965978
H	-0.0964902584	-2.1413190415	2.837900404
H	1.2751244219	-3.1554693642	2.3495511719
H	1.039194037	-1.4333031265	8.0395468054
H	-1.0741793176	-0.5895787981	-1.4037219938
H	0.248480472	-0.065081456	-2.4556900633
H	0.4128719604	-1.565155558	-1.5196584799
H	2.4025250527	0.7311420571	-1.4900124574
H	2.5284050198	-0.7970724234	-0.5964483538
H	2.779958689	0.4543165907	1.2966483427
H	3.1740858072	-1.129924342	8.4611080207
H	1.2001198952	3.9322258728	-1.7084349427

Compound **1c**

1c conf_1

energy (M062X/6-31g(d,p)) = -2585.2800955 Hartree

C	-0.9736551714	-0.1871825248	0.8582411779
O	-1.617317559	0.3636110383	1.7227210065
C	-0.4671113015	0.4946295001	-0.4083816394
N	-1.0090526851	1.8438883812	-0.3640771993
C	-0.8720457025	2.7747192628	-1.3290085183
O	-0.4569180313	2.5500642469	-2.466960697
C	-1.2328129061	4.1955061689	-0.8600066504
C	-1.1507524392	5.2369565246	-1.9744024549
C	0.2913978174	5.5842350069	-2.3436945459
C	1.0991128361	5.9035811451	-1.0905721289
N	1.0151468495	4.8482443947	-0.0775595379
N	-0.3228654137	4.5629192755	0.2316676932
C	-0.6894163458	4.4015381369	1.5245258256
O	-1.7997749036	3.956804067	1.8287879378
C	0.3376128539	4.7825405632	2.5959831579
N	0.0002127737	4.1130560389	3.8414011838
N	-1.1158295224	4.5569794848	4.5653404327
C	-1.0102608049	5.9809718924	4.8642912816
C	-0.8053008525	6.7902117885	3.5871448013
C	0.4209788013	6.3000505897	2.8348652557
C	0.5725591413	2.9190918494	4.1447090188
O	1.4330238586	2.4145125268	3.427738356
C	0.1446678203	2.2444351085	5.4460628153
C	0.8195360261	2.9156912787	6.6464044982
N	0.5259466666	0.8517453597	5.3200951514
C	-0.0417691914	-0.1199705139	6.0490185454
O	-0.8499987015	0.0803623003	6.9535987968
C	0.3072773218	-2.5346044555	6.8001249851
C	0.4080591558	-1.5390329465	5.6510547371
N	-0.3835747467	-2.0230187227	4.5103124651
N	-1.5034623575	-2.8033336361	4.6329592369
C	-1.8540534757	-3.1930245857	5.7987903718
C	-1.1512391586	-2.8873016653	7.0938072895
C	-0.02642253	-1.6532487314	3.2418742707
O	0.961969072	-0.9683364193	3.0279152227
C	-0.9320360977	-2.1427706851	2.1189071517
O	-0.5893745139	-1.4653246786	0.9146467981
O	-1.235569012	-3.9761360967	7.9814908357
Cl	-0.62087898	8.5437545195	3.9953207973
C	-0.9380095745	-0.2882197743	-1.6412127023
C	1.0911715903	0.5361592727	-0.2901472825
O	1.6873726225	1.5759518682	-1.0279016397
O	1.0325795954	-3.7224093909	6.523133272
H	-2.7400493453	-3.8213739625	5.8360082671
H	-1.392323943	2.13034472	0.5329761904
H	-2.2350287519	4.1761951139	-0.426279363
H	-1.6683416777	6.1362081895	-1.6231236193
H	-1.695389635	4.8637035714	-2.844888231

H	0.3063063529	6.4414978817	-3.0242179223
H	0.7419987801	6.8296901022	-0.6270552676
H	2.1596727429	6.035268451	-1.320098154
H	1.4403253957	3.9846580399	-0.4236353596
H	1.3155183762	4.4220574384	2.2846464212
H	-1.9273017992	4.3817704841	3.9719993666
H	-0.1671900043	6.1371577452	5.5439677024
H	-1.927439	6.2811272539	5.3751935763
H	-1.6995203075	6.7350471411	2.962113978
H	0.5330921892	6.8183964842	1.8806882362
H	1.3139426838	6.5001191721	3.4350462795
H	-0.9381414786	2.3085471168	5.5657029949
H	1.9067615535	2.9000434629	6.533316487
H	0.4858127726	3.9506044708	6.7448932673
H	0.5514476188	2.3746681044	7.5559714464
H	1.1176102735	0.6155511819	4.5283751025
H	0.7691546235	-2.1049824775	7.6899515397
H	1.4462543831	-1.5066582584	5.3137265558
H	-1.6326626827	-2.0258595168	7.5652349813
H	-1.9808169821	-1.9854119201	2.3643691908
H	-0.7659652454	-3.2025385896	1.9252511091
H	-0.5260247894	-4.581328575	7.7070127486
H	-2.0298328324	-0.2908686364	-1.6916116992
H	-0.5567788567	0.1706606621	-2.5523965645
H	-0.5851402895	-1.3187705685	-1.5816173644
H	1.4757087749	-0.4473905064	-0.5881158143
H	1.3739928848	0.7056008692	0.7518136125
H	1.2409050339	1.6443021623	-1.8881838095
H	0.8109922745	-4.0250035692	5.6296802507
H	0.749328083	4.7406699979	-2.868725509

1c conf_2

energy (M062X/6-31g(d,p)) = -2585.2792363 Hartree

C	-1.2800504997	-0.0757870507	0.922703766
O	-1.9178372922	0.5007533771	1.7753316588
C	-0.7267640527	0.5720275337	-0.3397604405
N	-1.3315431562	1.891964536	-0.4066511599
C	-0.9229997948	2.8401179488	-1.2824002075
O	-0.2817115639	2.6057208422	-2.3021743558
C	-1.2846330717	4.2714648811	-0.8527341862
C	-1.1891039912	5.2988064411	-1.9796175448
C	0.2541954555	5.6531859909	-2.3393694672
C	1.0486752881	5.9800546039	-1.0800214089
N	0.9625939948	4.9279852162	-0.0662003395
N	-0.3753878253	4.6442989744	0.2403283267
C	-0.7135538077	4.4079149441	1.5279635899
O	-1.8241412556	3.9726137065	1.8422881369
C	0.3568902336	4.6979376391	2.5861101621
N	-0.0059887403	4.0328079978	3.8272268392
N	-1.0691253885	4.5493117245	4.5824664852
C	-0.8588342858	5.9583071134	4.8959060396
C	-0.6108180694	6.7693056233	3.6279232433

C	0.5644248039	6.1982072403	2.852773886
C	0.4879683341	2.8065577689	4.1189893583
O	1.2745379827	2.2260011706	3.3672061968
C	0.0858050554	2.1854132478	5.452358833
C	0.8229640756	2.8609865348	6.6131756748
N	0.4009840139	0.7743229974	5.3691665035
C	-0.3190478699	-0.1451002655	6.0292039626
O	-1.2013601206	0.1326961192	6.8373972554
C	-0.2408917418	-2.4636210115	6.9673668535
C	0.0422214222	-1.6185775156	5.7138147995
N	-0.7413476805	-2.0654833315	4.5475336683
N	-1.7197809688	-3.0270715814	4.5914818565
C	-1.6857887737	-3.8621433709	5.5576098294
C	-0.5956640173	-3.8880597998	6.5932116323
C	-0.4184812793	-1.6090825602	3.3012297322
O	0.5540408413	-0.8958885963	3.1003356018
C	-1.336671223	-2.0520519667	2.1696956542
O	-0.965032937	-1.3745222291	0.9780428505
O	0.5997492305	-4.4521935297	6.0615666308
C1	-0.2877823076	8.4966006217	4.0598091131
C	-1.0739797244	-0.2869505228	-1.5607892453
C	0.8277167422	0.6897511976	-0.2069091953
O	1.2524266644	1.7973756971	0.5422918905
O	0.8609925779	-2.4217405514	7.8378865146
H	-2.4800279757	-4.6024283054	5.5673842402
H	-1.7560806809	2.2115129166	0.4603251705
H	-2.2888859427	4.2712138522	-0.4247057585
H	-1.7148672312	6.2006373846	-1.6465007944
H	-1.7241210926	4.9151449991	-2.8524164758
H	0.2685708042	6.5098435768	-3.0209480055
H	0.6815002906	6.9050063569	-0.6213561305
H	2.110337847	6.1184020542	-1.3009231991
H	1.3897048775	4.0614234825	-0.3969275528
H	1.2987427946	4.2696161303	2.2495509735
H	-1.9044953322	4.4336079134	4.0080980977
H	0.0011914414	6.0454810843	5.5666155889
H	-1.7461729137	6.3144497001	5.4230801185
H	-1.5143702824	6.7928595631	3.014181227
H	0.7084063741	6.7205778875	1.9058872973
H	1.4767665906	6.3151451139	3.4459207242
H	-0.9888382709	2.2969160036	5.6046703656
H	1.9051584519	2.7942872346	6.473442792
H	0.5373066976	3.9112954821	6.6950897639
H	0.5581786862	2.3551270563	7.5441786023
H	0.976714153	0.4805820486	4.5854611085
H	-1.0852115656	-2.0104815305	7.4901803208
H	1.0999698289	-1.7038796567	5.4524697545
H	-0.918930621	-4.4325793369	7.4849502629
H	-2.3794098566	-1.8576656504	2.4218155252
H	-1.2146886256	-3.1137192772	1.9579717595
H	0.5181638382	-5.4152898913	6.0681814815
H	-0.5584460621	-1.2479518907	-1.5106809833
H	-2.150029895	-0.470662672	-1.6112810323
H	-0.7629602013	0.2424622892	-2.4611088152

H	1.2253445119	0.8315221612	-1.2126427891
H	1.2151380381	-0.2545960174	0.1905567128
H	1.1368320324	1.6509702821	1.4979120483
H	1.4934904925	-3.0681872818	7.4831320111
H	0.7211535216	4.8101391305	-2.8553334045

1c conf_3

energy (M062X/6-31g(d,p)) = -2585.2783766 Hartree

C	-1.2163971877	-0.1777365887	0.8721320905
O	-1.7001027713	0.471409155	1.7721590468
C	-0.8554342362	0.3876210962	-0.5007094876
N	-1.0888813294	1.8259178181	-0.3766848148
C	-0.7613330498	2.770367494	-1.2717367032
O	-0.1929512518	2.556467307	-2.3483158458
C	-1.1287594757	4.1964270887	-0.8277205388
C	-1.0682556592	5.2263952328	-1.9561597022
C	0.3552810951	5.673565165	-2.2819684459
C	1.0803223922	6.0749404275	-1.0039215411
N	1.0638146581	5.0091792851	0.0020369329
N	-0.2470445603	4.5959574467	0.2766961302
C	-0.6257848427	4.395973781	1.5619832644
O	-1.7174188098	3.8953465255	1.8420837895
C	0.3687495016	4.8014597746	2.6550197254
N	0.0334681424	4.1077921289	3.8878187578
N	-1.0961746917	4.5209642071	4.6097865484
C	-1.0256024311	5.9421542213	4.9272291808
C	-0.8357258064	6.7692731931	3.6599376456
C	0.4076227716	6.3177686341	2.9118458459
C	0.5862793218	2.8929573766	4.1464629512
O	1.4167027412	2.3889553927	3.395363359
C	0.1842945535	2.2025080421	5.4470231874
C	0.9008023254	2.8519874256	6.6353499876
N	0.5428192286	0.8065643634	5.2925405728
C	-0.0059641722	-0.1608516099	6.0421186294
O	-0.7620791192	0.0498527978	6.9883798442
C	0.3369641223	-2.5961655596	6.7418531746
C	0.378447435	-1.5853667306	5.6018553561
N	-0.5185268999	-2.0290451581	4.525694174
N	-1.6673717814	-2.7448577622	4.7391297026
C	-1.9348688594	-3.1346960495	5.9267489779
C	-1.1037805755	-2.8953929497	7.1582454875
C	-0.2516512768	-1.6666821375	3.2321628287
O	0.751782723	-1.0390663256	2.9333928791
C	-1.2894984105	-2.089408446	2.1993259949
O	-0.9805506553	-1.4899979424	0.9473142734
O	-1.1558059723	-4.0049348694	8.0229112444
Cl	-0.6998160503	8.5229754794	4.0844914772
C	-1.798282083	-0.2328854934	-1.5423349547
C	0.6275625357	0.0483625914	-0.8245223239
O	0.9363102634	0.1153306203	-2.1888392989
O	0.9836579297	-3.8066288752	6.380317663
H	-2.8489796869	-3.7126329173	6.0347873915

H	-1.5419071199	2.1200807226	0.4866432599
H	-2.1353752617	4.1688724309	-0.4061017571
H	-1.6561796558	6.0936495426	-1.6362586917
H	-1.5587825588	4.8086337018	-2.8386335133
H	0.3298083292	6.516868793	-2.9791579787
H	0.6138307559	6.9579378022	-0.5541579413
H	2.1305385844	6.311675079	-1.1920306549
H	1.581331174	4.2035617323	-0.3497676565
H	1.3622038634	4.4736526077	2.3562494793
H	-1.9016029588	4.3339224645	4.011818633
H	-0.1889592544	6.1100424881	5.6119968811
H	-1.9518878618	6.2133521581	5.4378584191
H	-1.7247534016	6.6955151541	3.0292761368
H	0.514715017	6.8488470954	1.9644588569
H	1.2900973811	6.5350098103	3.5215713469
H	-0.8937422041	2.2790492461	5.5982428702
H	0.5810756437	3.8892740839	6.7541184407
H	0.6528914631	2.303499882	7.5459640192
H	1.9840849146	2.8266447473	6.4905851184
H	1.0911007264	0.5698073952	4.4709621435
H	0.894233082	-2.204154429	7.5937355375
H	1.3860235609	-1.5788190976	5.181092668
H	-1.5031699964	-2.0290928101	7.6926600037
H	-2.2914715566	-1.8106785165	2.523289369
H	-1.2563435508	-3.1659033073	2.033125378
H	-0.4995775917	-4.6300279523	7.6711879579
H	-1.6335093696	-1.3096841936	-1.6103821051
H	-2.8402966373	-0.0454222952	-1.272274284
H	-1.5997428627	0.2112540651	-2.5176864034
H	0.8168496825	-0.97838765	-0.5083403965
H	1.2624442332	0.7113859305	-0.2184511125
H	0.6654224689	1.0125917513	-2.4742803684
H	0.6725752601	-4.0793451076	5.503787476
H	0.8992356069	4.8592620192	-2.7703855892

1c conf_4

energy (M062X/6-31g(d,p)) = -2585.2750679 Hartree

C	-0.4508198595	-0.8942982083	-0.0577437632
O	-0.5233797395	-2.0781044084	-0.2864278003
C	0.3106578625	0.1101088236	-0.9249011157
N	-0.1518557995	1.4680584992	-0.706803089
C	-1.386565836	1.9105278044	-1.0390424058
O	-2.1723356343	1.2901012637	-1.7461150163
C	-1.8076704805	3.2740978592	-0.4702652385
C	-2.307562038	4.2171211774	-1.5710664307
C	-1.1478973688	4.885506878	-2.304130049
C	-0.2139050906	5.5457122183	-1.2965698975
N	0.2759823226	4.6075241943	-0.2799048828
N	-0.7829408961	3.9254021636	0.3423739664
C	-0.940868764	4.0214147029	1.6931268663
O	-1.9070954546	3.5226978685	2.2655552979
C	0.1680945606	4.7288029732	2.4863521706

N	0.1340633281	4.2346573134	3.8582359918
N	-0.9039078926	4.6638137605	4.7012769411
C	-0.9405559249	6.118375592	4.7809116513
C	-1.0767601067	6.726329531	3.388904673
C	0.0597823184	6.2624416426	2.493395273
C	0.8199591094	3.1017948446	4.1668938214
O	1.5927413984	2.5804633944	3.367994801
C	0.6328984367	2.4975006541	5.5571263606
C	1.6394088615	3.1033063672	6.5376285114
N	0.8116418961	1.0668158685	5.3876146598
C	0.1403039619	0.1656116091	6.1233029209
O	-0.519977835	0.4489018621	7.1199116393
C	-0.0585440806	-2.3359546798	6.6397684209
C	0.23446571	-1.2747178916	5.5821833524
N	-0.6990462403	-1.4262512376	4.4571522845
N	-1.9789304145	-1.8966298325	4.5911983259
C	-2.3580147323	-2.3086605709	5.738584059
C	-1.5407569731	-2.3466320613	7.0013474937
C	-0.3143978543	-1.0624208224	3.2050878795
O	0.8305970075	-0.6746037335	2.9778802561
C	-1.3719592652	-1.1365032468	2.1134675005
O	-0.9274273663	-0.3059102349	1.0525363027
O	-1.8660171479	-3.4759385112	7.7746602381
C1	-1.074486395	8.5328098695	3.5015145177
C	0.2953391684	-0.3183876406	-2.3870771399
C	1.7791886985	0.0858596153	-0.4056453166
O	1.9412768021	0.7753767791	0.802461912
O	0.2064555172	-3.6294502598	6.1244024053
H	-3.3776241538	-2.6820287246	5.7878732156
H	0.3153507723	1.9121677186	0.077710215
H	-2.6278196407	3.0483127604	0.2151112233
H	-2.9354797179	4.9832423015	-1.1034904169
H	-2.9386523717	3.6427786313	-2.2524323208
H	-1.5262546546	5.6318059622	-3.0094442147
H	0.6704587167	5.9683374559	-1.7800449152
H	-0.7310994408	6.3600335193	-0.7775595887
H	0.8711298398	3.9146324764	-0.7311434879
H	1.1302790398	4.4509807146	2.0610256077
H	-1.7694719084	4.3139583972	4.2888270248
H	-0.0194121332	6.4685862437	5.2557773416
H	-1.7857971293	6.3950600525	5.4145094043
H	-2.0481782118	6.4674584329	2.9611845464
H	-0.064838773	6.629356259	1.4737862346
H	1.0024361523	6.6625671078	2.8799032426
H	-0.3771234477	2.6781240851	5.9230343517
H	1.4592024267	4.1746972356	6.6576213754
H	1.5322298272	2.6208860338	7.5116116539
H	2.6615264909	2.954164922	6.1797827567
H	1.2853453055	0.7719675947	4.5389093163
H	0.5386440878	-2.1316319588	7.5327949847
H	1.2339360086	-1.445909893	5.17660842
H	-1.7608127067	-1.4549011725	7.5939226115
H	-2.3262011949	-0.7487934746	2.4638519977
H	-1.506715208	-2.1650277035	1.7713251492

H	-1.3754448376	-4.2079254487	7.364306925
H	0.7853170629	-1.2887019394	-2.4920256818
H	-0.7236428026	-0.3926569211	-2.7630215107
H	0.8390895413	0.4179747275	-2.9834858101
H	2.3948347037	0.6007492514	-1.1482583978
H	2.1125270725	-0.9575744449	-0.3470400198
H	1.5282190197	0.2688019194	1.5303834764
H	1.1426347662	-3.8322884061	6.2495958939
H	-0.5887702711	4.1451244944	-2.890668953

1c conf_5

energy (M062X/6-31g(d,p)) = -2585.2723471 Hartree

C	-0.4064621258	0.1714548173	0.8225671657
O	0.5826150094	0.8646746569	0.8042526927
C	-1.8022618435	0.5997147851	0.3430145999
N	-1.7670057839	2.0167821134	0.0089516848
C	-1.0880517685	2.5994927728	-1.000254578
O	-0.6385234118	2.0171527029	-1.9882280352
C	-0.9233554257	4.1159670109	-0.815510912
C	-0.3672532581	4.827905074	-2.0479995876
C	1.1397264689	4.6414843307	-2.2101290225
C	1.8482602005	4.9752097266	-0.9032130091
N	1.3200621775	4.2137470991	0.2292294551
N	-0.0668849757	4.3747556574	0.3518543777
C	-0.6201876521	4.5534475737	1.5739064717
O	-1.841467496	4.4312012411	1.7443164505
C	0.3002043843	4.9283238484	2.7329428952
N	-0.1120594075	4.198375902	3.9240240687
N	-1.3030934907	4.5628392237	4.5676731596
C	-1.2855377167	5.9807493949	4.9203995373
C	-1.0276532356	6.8459688167	3.6904715414
C	0.2729735859	6.4420257339	3.0147114652
C	0.5848287102	3.1050766163	4.332178888
O	1.6116779307	2.7413519243	3.7665380972
C	0.0542843047	2.3426429997	5.5431304415
C	0.5466522476	2.9811686711	6.8447570113
N	0.5250435147	0.9792799796	5.3948084929
C	-0.137896096	-0.066773052	5.9098819645
O	-1.1341995209	0.0359957815	6.6222739223
C	-0.0690196115	-2.5581629152	6.4218785475
C	0.4639605377	-1.4367659356	5.5385222051
N	0.2184988537	-1.7606096131	4.1236417322
N	-0.8280830741	-2.5351156347	3.69581599
C	-1.6182058033	-3.0354024186	4.5672460472
C	-1.516482606	-2.8904316122	6.0613199983
C	1.0969468753	-1.3088791938	3.1713495725
O	2.0876947704	-0.6616178393	3.4820529547
C	0.7963950688	-1.656291539	1.7173092876
O	-0.4372215627	-1.0904377277	1.2691097509
O	-1.938508307	-4.06805993	6.7066664744
Cl	-0.9536440891	8.5886387116	4.1773008042
C	-2.8315879188	0.429858501	1.4653914128

C	-2.1987328193	-0.3064163416	-0.8488185998
O	-1.147763777	-0.5902376551	-1.7305057844
O	0.7245011633	-3.72961208	6.3158858434
H	-2.4182753059	-3.6550253635	4.1704168682
H	-2.0548779038	2.6522904594	0.7499033005
H	-1.9039187882	4.5258827302	-0.5622018245
H	-0.5941338897	5.8941880001	-1.9414844534
H	-0.9031245079	4.4661916338	-2.9286864504
H	1.5107423167	5.2853513143	-3.0136627104
H	1.7387172436	6.037715488	-0.6610880108
H	2.9173266425	4.7544314937	-0.956311053
H	1.5001098195	3.2167528454	0.1082238988
H	1.3159938329	4.6227899735	2.496903604
H	-2.0537970594	4.3910698596	3.8988458028
H	-0.5019592988	6.1473822175	5.6656098728
H	-2.250270324	6.2209645305	5.3720651377
H	-1.8682379747	6.7749499765	2.9985670472
H	0.422529848	6.9968846398	2.0850779872
H	1.1101270715	6.671726437	3.6814654162
H	-1.0357736998	2.3361269358	5.5391759663
H	0.1463022915	3.9915259493	6.9540548168
H	0.2074172288	2.3797191114	7.6908701442
H	1.6387748544	3.0276463544	6.8600720966
H	1.3318430267	0.8302855625	4.7944410708
H	-0.0100723032	-2.2497311246	7.4658066935
H	1.5491125642	-1.3866937409	5.6548714105
H	-2.1604482748	-2.0725924603	6.3963578912
H	0.6894944584	-2.731581687	1.587635287
H	1.6237816939	-1.2730972363	1.1226099537
H	-1.1698926178	-4.6624585705	6.6744849906
H	-2.8321620294	-0.5967310323	1.8307952816
H	-2.6104147728	1.0936500887	2.3061256383
H	-3.8275800215	0.6734536864	1.0859239276
H	-3.0557641753	0.1677379559	-1.3484545978
H	-2.5336528582	-1.2612480282	-0.4387109744
H	-0.8437452065	0.2846139081	-2.0542801238
H	0.8631030116	-3.9311778285	5.3781131081
H	1.3585420814	3.6065337419	-2.4912524894

1c conf_6

energy (M062X/6-31g(d,p)) = -2585.2718609 Hartree

C	-1.2477344743	-0.1779012142	0.8586550574
O	-1.8744023581	0.4137017825	1.7090740134
C	-0.7690176526	0.4451555422	-0.4518054871
N	-1.1340583642	1.8573368025	-0.3418525628
C	-0.7696086226	2.8415566491	-1.1779453834
O	-0.077644759	2.6853323299	-2.1914188886
C	-1.2287735484	4.2373073413	-0.7346035603
C	-1.2845451573	5.2671955714	-1.8646586848
C	0.0881895	5.8144623661	-2.2551219444
C	0.8595273151	6.2378707915	-1.0115045977
N	0.9588964915	5.1575535161	-0.0254208129

N	-0.3144580092	4.6882671017	0.3229804655
C	-0.6036928312	4.4457986364	1.6251167253
O	-1.6601147818	3.9097063292	1.9634158707
C	0.4564833596	4.8402381618	2.660659265
N	0.1716909179	4.1575613318	3.9122032158
N	-0.8990952853	4.6147225523	4.6960722309
C	-0.7571409794	6.0298019918	5.0113808265
C	-0.6175648797	6.850947228	3.7343233705
C	0.5589508989	6.3543844104	2.9114000861
C	0.6440781016	2.8938792456	4.1023897167
O	1.3621789483	2.343086262	3.273679322
C	0.3233505944	2.2218463547	5.4319429601
C	1.3362046702	2.6872944748	6.4846062158
N	0.381179669	0.7898801189	5.2086887821
C	-0.1623019569	-0.0697976386	6.0713804803
O	-0.6718877226	0.2894925345	7.138937092
C	-0.6310470286	-2.3155267709	6.9813041914
C	-0.075437951	-1.5890353634	5.7485262305
N	-0.8242882359	-2.0048735564	4.5437182237
N	-1.7036036494	-3.063046291	4.5275966891
C	-1.7110628009	-3.8897415787	5.4985825755
C	-0.816811364	-3.7879543723	6.7002611804
C	-0.4333749448	-1.6222727037	3.2883635626
O	0.5520803533	-0.9297017152	3.0850754758
C	-1.3040364754	-2.126822834	2.1413428335
O	-0.9245637674	-1.4701638875	0.93761732
O	0.4135443985	-4.4242621981	6.3992517912
Cl	-0.3903468959	8.5986874923	4.1452163568
C	-1.5167024995	-0.225836882	-1.613127008
C	0.7674111521	0.2354696517	-0.5848695167
O	1.2401129958	0.3509388707	-1.8980625425
O	0.2605937231	-2.1712303272	8.0582219458
H	-2.4217630666	-4.7052704962	5.4089007008
H	-1.6463414136	2.1077513135	0.5008137337
H	-2.2096443825	4.1508947594	-0.2651015531
H	-1.9163549057	6.091766433	-1.516687835
H	-1.7855371216	4.8181132437	-2.7262140054
H	-0.0321960252	6.6682238479	-2.929402684
H	0.3712949056	7.0858117005	-0.5192035613
H	1.8821605126	6.5370315954	-1.2549630723
H	1.4824237547	4.3806503339	-0.4298606524
H	1.4224184824	4.4837623834	2.3069029413
H	-1.7457548424	4.4570119377	4.1485337876
H	0.1265666468	6.1638982022	5.6421943629
H	-1.6388519793	6.3330573999	5.5797361037
H	-1.5468916955	6.8109493168	3.1610292491
H	0.6267100108	6.8793332132	1.9576593871
H	1.4841971228	6.5421061616	3.465027595
H	-0.6798828033	2.4883202503	5.7635320327
H	1.2404671117	3.7621478404	6.6563372094
H	1.1462425808	2.1652650078	7.4238983464
H	2.3559135394	2.470548113	6.155380607
H	0.7799070627	0.448723637	4.3368538528
H	-1.6088960746	-1.8868731467	7.2259154808

H	0.9756804765	-1.8681332564	5.6198890532
H	-1.3001266681	-4.2613252328	7.5638075007
H	-2.3598959995	-1.9644119291	2.3560794294
H	-1.136093721	-3.1877036617	1.9616836582
H	1.002465027	-4.2195723228	7.1420763566
H	-1.2549987402	-1.2837643815	-1.6723775732
H	-2.59653329	-0.13024735	-1.4765728788
H	-1.2344194149	0.2541611418	-2.5500145952
H	1.0024108159	-0.7767247222	-0.2532170467
H	1.2603622103	0.9392751452	0.1019146233
H	0.928207186	1.2242297052	-2.2130382984
H	0.1835280239	-1.2389888163	8.3209646721
H	0.6560705803	5.0486745248	-2.7910700112

1c conf_7

energy (M062X/6-31g(d,p)) = -2585.2711356 Hartree

C	0.0342491989	-0.8170505014	0.0048185042
O	0.3083705877	-1.940598694	-0.344550249
C	0.714792726	0.4416449763	-0.5351631956
N	-0.0786925996	1.6268382799	-0.2887058637
C	-1.2867293128	1.8903976802	-0.8254272724
O	-1.861114572	1.1607108145	-1.6263514427
C	-1.9465297495	3.1977255125	-0.3470803818
C	-2.5557826172	3.9898414719	-1.5062296913
C	-1.4854150995	4.7462809925	-2.2892227795
C	-0.6230828212	5.5699722582	-1.337619293
N	-0.0276922574	4.7549941445	-0.2717205188
N	-1.0189656912	4.0299549642	0.4118284069
C	-1.1002792106	4.1131819564	1.7672785542
O	-2.0124373919	3.5852278304	2.3989954423
C	0.0612198227	4.8098587643	2.485487648
N	0.2377097955	4.1548916995	3.7792706958
N	-0.6694360736	4.4542520782	4.8110804783
C	-0.7442408162	5.8889110647	5.0524913663
C	-1.1267069361	6.6259477541	3.7738256424
C	-0.1210580401	6.3231777918	2.6768907784
C	0.9482027681	3.0006577601	3.8370475992
O	1.5022378624	2.5331056429	2.8373074174
C	1.1075611257	2.3121106814	5.1875224061
C	2.5185951335	2.5780844556	5.7189293841
N	0.8545859552	0.8954539813	5.0053252499
C	0.1619511443	0.1684769118	5.9029206733
O	-0.2929220526	0.6221795484	6.9492279747
C	-0.5422786744	-2.1517796738	6.6871119741
C	-0.0045164855	-1.3194872995	5.5257626174
N	-0.8703072954	-1.4873973232	4.3506033232
N	-2.2143166635	-1.7386199565	4.4343125058
C	-2.7341866608	-1.89465615	5.5897731428
C	-2.0211037703	-1.8592407047	6.9145625303
C	-0.3126052375	-1.4048951419	3.1094069437
O	0.8881765609	-1.1844226628	2.9713086692
C	-1.2122556365	-1.5472053587	1.8902666871

O	-0.8202711297	-0.5138705804	0.994667965
O	-2.5899486301	-2.7809147134	7.8125651072
Cl	-1.1875896435	8.4069764547	4.0816231971
C	1.0862381594	0.2985477974	-2.0071029163
C	2.0016670893	0.5756886949	0.3443719046
O	2.5339911051	1.8773815393	0.2899299463
O	-0.4787383545	-3.5336994459	6.377152102
H	-3.802299421	-2.0960993691	5.5986779282
H	0.2507572179	2.2288874007	0.4508692301
H	-2.7312785079	2.9003253465	0.3526714892
H	-3.2784362611	4.6994236553	-1.0897157862
H	-3.1023200883	3.294524271	-2.1466043583
H	-1.9526092808	5.3999909911	-3.0321223927
H	-1.2197380189	6.3536614691	-0.8590642385
H	0.2064374146	6.0532269664	-1.8598681303
H	0.6204497392	4.0847195692	-0.6869298676
H	0.9717582414	4.6543184632	1.9116832701
H	-1.5755001808	4.1057852087	4.4956648871
H	0.227361431	6.2380435603	5.4138876089
H	-1.4857855551	6.050880418	5.8372605625
H	-2.139470455	6.350643558	3.471603115
H	-0.4179822256	6.7729626718	1.7275102915
H	0.8482833014	6.7458284735	2.9588972406
H	0.3689426956	2.6876870848	5.8912305822
H	2.6794921271	3.6499078076	5.8646605125
H	2.6452910995	2.0745571754	6.6799619734
H	3.2702187614	2.2027396245	5.019820008
H	1.2247730976	0.4325289732	4.1807489306
H	0.0243564504	-1.9175292319	7.5915363212
H	0.9741648907	-1.7092339937	5.2348521011
H	-2.1166729896	-0.8618206023	7.3523269501
H	-2.2612615451	-1.3986814061	2.1261606607
H	-1.0629417563	-2.5297853826	1.4358623414
H	-2.2134415065	-3.6399377786	7.5571343854
H	1.7227758001	1.1382449414	-2.2967338142
H	1.6344245429	-0.6325515698	-2.1614364505
H	0.1943168867	0.2937981411	-2.6339451475
H	2.7342814632	-0.1386477652	-0.0434115514
H	1.7640500513	0.2994791472	1.3746335485
H	2.3789207414	2.2781577122	1.1614498276
H	0.3914792335	-3.870913962	6.6267231501
H	-0.8491430066	4.0412431348	-2.8394884119

1c conf_8

energy (M062X/6-31g(d,p)) = -2585.2702046 Hartree

C	-0.8715227112	-0.8926144843	0.2374793646
O	-0.543240127	-2.0542984469	0.2152872208
C	-0.5164290262	0.0912869527	-0.8790452197
N	-0.986632156	1.4301743769	-0.5073242329
C	-0.6826536619	2.5822026694	-1.1251607062
O	0.109480835	2.687393054	-2.07062409
C	-1.3568963824	3.8235973072	-0.5331739523

C	-1.7355908514	4.8760334958	-1.5809039125
C	-0.5460920542	5.7000364015	-2.0730997379
C	0.2740906249	6.2016967895	-0.8903138176
N	0.6760867835	5.1195551193	0.0155387503
N	-0.4454070524	4.4057497335	0.4574809306
C	-0.5970732592	4.1255035193	1.7764768198
O	-1.506158104	3.4024652988	2.1831417606
C	0.4265773087	4.7390321329	2.7440371756
N	0.29117419	4.0915398962	4.0401587031
N	-0.8252074919	4.4111243152	4.8282206376
C	-0.9019236646	5.8446661541	5.0752947891
C	-0.9134320558	6.6158383382	3.7601589406
C	0.3057730187	6.2615257315	2.9253428794
C	0.9894616386	2.9523012205	4.2925080718
O	1.8051088385	2.504913252	3.4911002939
C	0.7752218942	2.2622345156	5.6367700865
C	1.8133702505	2.7610676522	6.645023286
N	0.8941909518	0.8389169353	5.378533855
C	0.2446432343	-0.0787767248	6.1125562164
O	-0.3491517703	0.1722825688	7.1585674393
C	0.1409440429	-2.6069020835	6.526154469
C	0.2671485099	-1.4898024975	5.4976654494
N	-0.8259540064	-1.6008779233	4.5199552084
N	-2.0703162519	-2.0898838277	4.8210951661
C	-2.2736540487	-2.5695398138	5.9882562191
C	-1.2722679542	-2.6624524817	7.1080840927
C	-0.651480948	-1.1089966589	3.2545603849
O	0.4162514856	-0.6492657763	2.8816187531
C	-1.8749424662	-1.1541383769	2.3473746183
O	-1.6135366107	-0.3450394565	1.2090199773
O	-1.4613527458	-3.839713782	7.8556074407
Cl	-0.9416326471	8.3954968736	4.088667925
C	-1.223602903	-0.3882125763	-2.1540083638
C	1.0305677529	0.0193941547	-1.0515453159
O	1.4860009242	0.4076010806	-2.315480087
O	0.4665829203	-3.8661562825	5.9586344508
H	-3.2721264073	-2.9602481245	6.166060478
H	-1.5933211367	1.4832331261	0.3005809314
H	-2.2473185711	3.5233200236	0.0194896047
H	-2.4666999853	5.5428764956	-1.1104292926
H	-2.2423411698	4.3824378091	-2.4148743289
H	-0.9058291459	6.5497756603	-2.6620339959
H	-0.3004534985	6.9247644006	-0.3010453749
H	1.1924597918	6.6948709405	-1.2189250907
H	1.2761995787	4.4672885193	-0.4894128488
H	1.4234083336	4.5133327409	2.367281298
H	-1.6446297267	4.0922629199	4.3102976367
H	-0.0394257725	6.1437971445	5.6779858514
H	-1.8105762135	6.0341950077	5.650525087
H	-1.8383582736	6.4128176639	3.2148013396
H	0.2737357104	6.748484827	1.950832696
H	1.2048017694	6.6082169683	3.4443540287
H	-0.2241472159	2.4640010711	6.0197920144
H	1.6807322966	3.8294348225	6.8353055554

H	1.6904806104	2.2221624952	7.5868683639
H	2.8252735217	2.5918724806	6.2680622084
H	1.2984061278	0.5721364213	4.4868623474
H	0.8644779385	-2.4454677075	7.3264237475
H	1.1960627756	-1.6361850667	4.9425417432
H	-1.4110799588	-1.8090324899	7.777460127
H	-2.7442944751	-0.7212610835	2.8372163156
H	-2.101512573	-2.1793493161	2.0504261873
H	-1.0009338222	-4.534067725	7.3545882062
H	-0.8970882994	-1.3994307151	-2.4035419543
H	-2.3072166143	-0.3847540311	-2.0136067144
H	-0.9693302835	0.274869047	-2.9808890011
H	1.3192505252	-1.0242733833	-0.9176924029
H	1.4869404098	0.6075014346	-0.2419298161
H	1.1532685478	1.3212067815	-2.4365568148
H	0.0019605704	-3.9595620202	5.1130834972
H	0.0877003814	5.0918145151	-2.7235935698

Compound **1d**

1d conf_1

energy (M062X/6-31g(d,p)) = -2585.2797614 Hartree

C	-1.1728740067	-0.1756281548	0.8141900302
O	-1.66559501	0.4542785025	1.7229064603
C	-0.7892020246	0.419441184	-0.5396396893
N	-1.0464218452	1.8517701118	-0.3962733106
C	-0.7081952906	2.8169397806	-1.2649365084
O	-0.1096323422	2.6306397742	-2.330250259
C	-1.1054099016	4.2292964542	-0.8033774035
C	-1.035309475	5.2814698658	-1.9104111119
C	0.3878499915	5.7572708632	-2.1947276179
C	1.0773342156	6.1445236705	-0.8928248833
N	1.0563532369	5.0581078883	0.0907376069
N	-0.2535164337	4.6190637497	0.3278497213
C	-0.6560808284	4.3833973812	1.5994798532
O	-1.7460947142	3.8611037239	1.8445873552
C	0.3092282802	4.7762629188	2.7228467145
N	-0.042527293	4.0467532364	3.9302518083
N	-1.1957131825	4.4226439085	4.63530483
C	-1.1564440848	5.8368012424	4.9889856221
C	-0.9496976032	6.6984687349	3.7475784434
C	0.3183953124	6.2859235465	3.0185906462
C	0.5314839301	2.8413659343	4.1803140122
O	1.3968723341	2.3704532817	3.4471529429
C	0.1027472642	2.1128332933	5.4520550034
C	0.7555773461	2.7506113188	6.6820549324
N	0.5111634067	0.7316586996	5.2779293981
C	-0.0366939526	-0.2736505338	5.9645921496
O	-0.8648867411	-0.0956401697	6.8676215267
C	0.4355256549	-2.7406847313	6.6065046427
C	0.4148055864	-1.6673623826	5.5117281053
N	-0.4631569269	-2.1164981114	4.4257088049
N	-1.6493094335	-2.7650378472	4.6501832604
C	-1.8838605739	-3.2335463641	5.8167737568
C	-0.9774539999	-3.1776119849	7.020653578
C	-0.2089453742	-1.7124480063	3.1411993053
O	0.7919662686	-1.0755322638	2.8545613083
C	-1.2493135551	-2.1129312267	2.1029297184
O	-0.9395425238	-1.4897884604	0.8631386145
O	-1.5501151745	-2.3987194031	8.0425281941
Cl	-0.8528744244	8.4425189413	4.2192560351
C	-1.6947811923	-0.1947907872	-1.6170271545
C	0.707180317	0.107352791	-0.8294244647
O	1.0507071622	0.2023648771	-2.1836375233
O	1.1972039837	-3.8441012836	6.1593729903
H	-2.8524377554	-3.7128530707	5.9309388581
H	-1.520609934	2.1249753234	0.4626140007
H	-2.1204469734	4.1800527597	-0.4046295094
H	-1.6442802947	6.1331536182	-1.5881022877
H	-1.4987733252	4.8730562468	-2.8117051642

H	0.3644563756	6.6137373227	-2.8757372684
H	0.5860990139	7.0102959849	-0.4360374221
H	2.1273565168	6.402171677	-1.0522958754
H	1.5939762463	4.2680748891	-0.2663306621
H	1.3138974958	4.4706906714	2.4382012142
H	-1.9831748176	4.237896052	4.0131990799
H	-0.3398302687	6.0010194085	5.698326863
H	-2.0993865208	6.0799466606	5.4829488579
H	-1.8220204811	6.6268151242	3.0937669367
H	0.4390560777	6.8423631565	2.0875523338
H	1.1827145143	6.5008658017	3.6545178357
H	-0.981930625	2.150849425	5.5628165873
H	0.4005034113	3.7744999648	6.813592118
H	0.4909802679	2.1730787964	7.5697878823
H	1.8435990899	2.760461901	6.5774750415
H	1.1138541382	0.5421776341	4.4820140642
H	0.9500640809	-2.3492876236	7.4862941992
H	1.4180754251	-1.6010705766	5.0884831284
H	-0.8831004247	-4.193636617	7.4167173296
H	-2.2496454207	-1.8383129065	2.4356709391
H	-1.219205557	-3.1861945824	1.9157963578
H	-1.4664861918	-1.4684841494	7.7345547723
H	-2.7462855639	-0.0289124222	-1.3706658345
H	-1.478677317	0.2717279373	-2.5781357814
H	-1.5112968611	-1.2673155969	-1.7020787004
H	0.9035950701	-0.9216463627	-0.5250482706
H	1.3155039894	0.7694180032	-0.1957087004
H	0.7748502412	1.1007348634	-2.460650857
H	0.7933412143	-4.1902521709	5.3501365705
H	0.9559187807	4.9615588936	-2.6863160812

1d conf_2

energy (M062X/6-31g(d,p)) = -2585.2770746 Hartree

C	-0.6857423486	-0.2324654886	0.4853784885
O	-1.4851021846	0.3756467139	1.1550920008
C	0.1537550152	0.3677037687	-0.6511564715
N	-0.0795896723	1.8002989017	-0.6493341716
C	-1.138964327	2.4577625943	-1.1779216
O	-1.9112437705	2.0019610879	-2.011432449
C	-1.3690393269	3.8922227727	-0.668802262
C	-1.471363403	4.9058447733	-1.8134858222
C	-0.0961053554	5.3652898953	-2.287386433
C	0.7189963404	5.8542532053	-1.0952048423
N	0.8470547939	4.8356953967	-0.0471510025
N	-0.4092057467	4.3358228105	0.3386468723
C	-0.7780760146	4.3856012834	1.6498482795
O	-1.9022712578	4.0478148388	2.0143244914
C	0.2821868929	4.8258056113	2.6669854104
N	-0.0207543179	4.1903323405	3.9443129466
N	-1.1225136019	4.6500753558	4.682850378
C	-1.0067999589	6.0810071563	4.9406314867
C	-0.8480575316	6.8552113241	3.6353851494

C	0.3557936267	6.3492881439	2.8570346562
C	0.5294716565	2.9864450438	4.2437799436
O	1.3986720124	2.4779342853	3.540433271
C	0.0466508953	2.2817886579	5.5117911703
C	0.6756403951	2.8981095783	6.7638268657
N	0.4241247212	0.8900312281	5.3479717356
C	-0.2342775057	-0.1209390439	5.9180243121
O	-1.1718748743	0.0436969655	6.7091326977
C	0.1713919901	-2.5881627597	6.5846564535
C	0.2654751364	-1.5098422071	5.4972307516
N	-0.4683234487	-1.9645663131	4.3093177978
N	-1.6365990193	-2.6815739017	4.3736833583
C	-2.0013225314	-3.1653329257	5.499448096
C	-1.2707240816	-3.0622258948	6.814688779
C	-0.0640653885	-1.5673571579	3.0690257624
O	0.9233178611	-0.8543657102	2.9237219181
C	-0.8904855327	-2.0787965479	1.8944422982
O	-0.3734077027	-1.5238271038	0.6954176719
O	-2.0009092364	-2.2853378145	7.7314411168
C1	-0.6573400075	8.6199025277	3.9886227702
C	-0.1214275949	-0.3235898724	-1.9851561511
C	1.6453452662	0.1863298311	-0.2827496012
O	1.9843635528	0.8888479861	0.8862679641
O	1.0132123549	-3.6703983255	6.2438616184
H	-2.9499936993	-3.6948758909	5.4820555588
H	0.360455456	2.2336741583	0.1544935584
H	-2.3298085059	3.8372127758	-0.1521720946
H	-2.0379032829	5.7706556376	-1.4516929189
H	-2.0465878602	4.4488764603	-2.6215309216
H	-0.1994767703	6.1666768873	-3.0254172863
H	0.2479789112	6.7356198887	-0.6468207155
H	1.7361327869	6.1304902024	-1.3841150751
H	1.3971432757	4.0592177336	-0.4115213336
H	1.2561583915	4.4649105929	2.3445773922
H	-1.9455202626	4.4645884575	4.1082524984
H	-0.1406130622	6.2533629418	5.5863763932
H	-1.9057505089	6.3952063137	5.4749506424
H	-1.7616767688	6.7789232383	3.0418432801
H	0.4336320072	6.8400066209	1.8850383467
H	1.2663687542	6.5746581	3.4209152309
H	-1.0398447049	2.3448001519	5.5865372276
H	0.3531813829	3.9345474712	6.8797892233
H	0.3584459132	2.3330276126	7.6429057919
H	1.7664739829	2.8674670908	6.7006069482
H	1.1073998695	0.7051505859	4.619036209
H	0.5583675282	-2.1838345893	7.5219618223
H	1.3125142073	-1.4353642449	5.1998649445
H	-1.2020436862	-4.0685938273	7.2392173618
H	-1.9420348883	-1.8263943027	2.026149442
H	-0.7933932721	-3.1603287541	1.8015376968
H	-1.8845161013	-1.3537164827	7.4372383466
H	-1.1738774715	-0.272641545	-2.2559878456
H	0.4601643794	0.164333786	-2.7712355552
H	0.1883002066	-1.3690331158	-1.9190757005

H	2.2392346566	0.6076270084	-1.0981825622
H	1.8680278396	-0.8822181779	-0.2027463832
H	1.6642652989	0.3750242917	1.6502659934
H	0.7087487187	-4.0513443321	5.4074139091
H	0.4351805091	4.541344244	-2.7810251306

1d conf_3

energy (M062X/6-31g(d,p)) = -2585.2696298 Hartree

C	-1.4661767766	-0.229703851	0.5902570394
O	-2.2814309619	0.2604167626	1.336117477
C	-0.8299557801	0.4735225098	-0.6039426262
N	-1.3080383097	1.8471500115	-0.5491833592
C	-0.8445692261	2.8377522394	-1.3417943368
O	-0.1834712497	2.6604177872	-2.362476422
C	-1.1774362921	4.2417752062	-0.8134697996
C	-1.0967622218	5.338734521	-1.8746744812
C	0.3385727894	5.7380248492	-2.2136299104
C	1.1201084523	6.015418905	-0.9354685045
N	1.0671024697	4.896408343	0.0091450468
N	-0.2591641064	4.5427389936	0.2950433002
C	-0.6037681528	4.2463931517	1.5713227108
O	-1.6928780082	3.7348031212	1.8418845627
C	0.4069953537	4.6093584151	2.6668545872
N	0.0308442168	3.9537395744	3.9073132002
N	-1.1219260905	4.3959925387	4.5698670622
C	-1.0489876194	5.8263636963	4.8532969606
C	-0.7701929867	6.6247801243	3.5836406197
C	0.4959045744	6.1282036346	2.9047121803
C	0.7576604153	2.9176670067	4.4054897135
O	1.7750107908	2.5065340335	3.855542725
C	0.2750113539	2.2892702034	5.7137664656
C	0.9624889779	2.9593939038	6.9028651423
N	0.5741053037	0.8718641332	5.6601301979
C	-0.4063015831	-0.0477621398	5.5676248648
O	-1.6021466775	0.1951987939	5.671304065
C	-0.3066350442	-2.2387426239	6.7226099127
C	0.060941882	-1.5070862202	5.4247056806
N	-0.6297215664	-2.1201439862	4.2819232631
N	-1.3827018354	-3.2659343143	4.3330674457
C	-1.2629645556	-4.0187255345	5.3553930728
C	-0.3470458303	-3.7452290047	6.5055267766
C	-0.4993860966	-1.5374358787	3.0602478307
O	0.2343950746	-0.5684982069	2.905173326
C	-1.308252193	-2.1498079626	1.9234957087
O	-0.9850749546	-1.4741412302	0.7191951378
O	-0.8318571639	-4.4163971945	7.6410300656
Cl	-0.6106590604	8.3819144632	3.9899468971
C	-1.2462311885	-0.2337250152	-1.8995000623
C	0.7080825451	0.4316228247	-0.4292789651
O	1.1378918504	1.1065607026	0.7255003114
O	0.5391837096	-1.8750343193	7.7860631239
H	-1.8751861875	-4.9156398774	5.3715580606

H	-1.7599768657	2.1183375013	0.3197275127
H	-2.1768284787	4.2225282217	-0.3748259018
H	-1.634726684	6.2109752746	-1.4868488194
H	-1.6280869078	5.0010194769	-2.7683877253
H	0.3376722237	6.6280381469	-2.8509616238
H	0.7205738502	6.8970522138	-0.4223498797
H	2.1772929204	6.2017055173	-1.1415180217
H	1.5228640608	4.0802533886	-0.399623621
H	1.3882932312	4.231644027	2.3852398408
H	-1.9025207077	4.1934855721	3.946062566
H	-0.2507907688	6.0003374679	5.5812579796
H	-1.9982973596	6.1239665628	5.3035576116
H	-1.6264326905	6.5657074201	2.9074986714
H	0.6664684552	6.6455364789	1.9597843856
H	1.3541814833	6.3204924554	3.5561269856
H	-0.8043812154	2.3850546487	5.8033592906
H	0.6977993871	4.0185763076	6.9529377803
H	0.6467898801	2.4780357951	7.831338352
H	2.0499784544	2.8779197494	6.8183661055
H	1.4969106984	0.6286283618	5.3256059359
H	-1.3095723703	-1.9246484056	7.0233717226
H	1.1411450508	-1.5688741529	5.2528473529
H	0.6635548074	-4.1012723152	6.2380284588
H	-2.3751350995	-2.0824001	2.1433191314
H	-1.0432948594	-3.1936398847	1.7660538264
H	-0.3090946865	-4.0931842302	8.3901016011
H	-0.9045939	-1.2708181202	-1.8952679979
H	-2.3333447288	-0.220830601	-2.0097450232
H	-0.802422288	0.2878747865	-2.7480191541
H	1.1491587242	0.9427473416	-1.2859465379
H	1.0328976975	-0.6149307732	-0.4443362996
H	0.8967690954	0.5661255452	1.4997266708
H	1.4528777957	-2.0958801503	7.5503159709
H	0.8238937538	4.9314233819	-2.7699932142

1d conf_4

energy (M062X/6-31g(d,p)) = -2585.2671877 Hartree

C	-1.4608911785	-0.0701101501	0.8560946018
O	-1.8270026992	0.60243575	1.794494903
C	-1.084976198	0.4867763407	-0.5163711307
N	-1.1646216595	1.9393213471	-0.3660692074
C	-0.7491053467	2.8555508571	-1.2550125536
O	-0.219318697	2.5960001068	-2.3408742205
C	-0.9706510236	4.3095160442	-0.8016440516
C	-0.7234883201	5.3370428369	-1.9063798114
C	0.75961977	5.6196783907	-2.1348259717
C	1.4387295389	5.9343018843	-0.8079049061
N	1.2387018904	4.8735029444	0.1829522159
N	-0.1236556982	4.5989662214	0.362684024
C	-0.6069459537	4.4252109431	1.6153445223
O	-1.7585829851	4.0240063581	1.8057579362
C	0.3363548117	4.7241814229	2.786339465

N	-0.165978761	4.0574960029	3.9757945089
N	-1.3238663893	4.5684079885	4.5834756461
C	-1.1475795569	5.9725368102	4.9356302456
C	-0.7572419585	6.7907783872	3.7085598397
C	0.5004180302	6.2270958721	3.0681136693
C	0.2547874352	2.7904309185	4.2679430246
O	1.1553519867	2.2543841694	3.638391088
C	-0.454965122	2.094010312	5.4382924613
C	0.0719910998	2.5921586314	6.7833268117
N	-0.3890407434	0.6530686061	5.2655784127
C	0.6095180076	-0.1721231443	5.6046533042
O	1.6305843513	0.1371897319	6.2238084503
C	0.0925959311	-2.2553574262	6.7624440199
C	0.3829793728	-1.670539462	5.3661936984
N	-0.6726509721	-1.9975169411	4.41176232
N	-1.7436656608	-2.8236940771	4.6807180477
C	-1.6695250896	-3.5728859309	5.7105306287
C	-0.4909457077	-3.6495600545	6.6297624466
C	-0.4828479735	-1.6603532166	3.0942817106
O	0.5322947605	-1.0990792242	2.7245390839
C	-1.6253408897	-2.0061492329	2.1468703717
O	-1.3754479258	-1.4023888432	0.8843440495
O	-0.9192084707	-4.166102087	7.8653196704
C1	-0.4913411028	8.5182378076	4.1800938016
C	-2.1095932058	-0.0144017393	-1.5448487061
C	0.34907756	0.0034351068	-0.8822715109
O	0.6256303341	0.0452271262	-2.2540240238
O	1.2730260715	-2.324505847	7.5156967979
H	-2.5291786876	-4.2059267622	5.9108911522
H	-1.5919568955	2.2693181622	0.4975574715
H	-1.9992882672	4.3911545168	-0.4444391265
H	-1.2278094895	6.2631763351	-1.6097132884
H	-1.2001896035	4.9852426023	-2.8240807988
H	0.8768380278	6.4609382792	-2.8250752468
H	1.0435234198	6.8622342865	-0.3806134466
H	2.5187937542	6.0539286372	-0.9241343392
H	1.6933063776	4.0191287708	-0.1395209516
H	1.312863118	4.3004689396	2.5615318324
H	-2.0752888	4.4700105806	3.8997721278
H	-0.3678776308	6.0490643295	5.6993518107
H	-2.0877224937	6.3298400591	5.3611461228
H	-1.5854101787	6.8142697642	2.9962155807
H	0.7440433966	6.753583347	2.1436067881
H	1.3401037429	6.3506447059	3.7589047511
H	-1.5144753245	2.3467235713	5.3867067891
H	-0.1877115164	3.6470548862	6.8908248502
H	-0.4019083413	2.0348302087	7.5950473749
H	1.151473924	2.4734871641	6.8626215468
H	-1.1273631271	0.2531989485	4.7048996722
H	-0.6616768858	-1.6333082968	7.2672569058
H	1.3325882851	-2.0798316979	5.0116170936
H	0.2714625277	-4.3002135354	6.1698134246
H	-2.582092367	-1.6792528885	2.5544833347
H	-1.6675640675	-3.078761704	1.9601308241

H	-0.1448612914	-4.1713695614	8.4460594085
H	-2.0549195493	-1.100293677	-1.6407065672
H	-3.1212525473	0.2684575765	-1.2437802416
H	-1.8924424402	0.4304834007	-2.5160222123
H	0.4443692913	-1.0376201004	-0.5719183209
H	1.0621477303	0.5981592739	-0.2928736333
H	0.4499162542	0.9702467141	-2.5246420887
H	1.7042204772	-1.4534547783	7.4154940781
H	1.2391575154	4.7492063998	-2.5939783618

1d conf_5

energy (M062X/6-31g(d,p)) = -2585.2663732 Hartree

C	-1.2735629437	-0.1473702175	0.8545871712
O	-1.8759586621	0.4797178855	1.6963876408
C	-0.7728183859	0.4379494349	-0.4656174548
N	-1.0704532608	1.866860542	-0.3704680901
C	-0.6561419497	2.8270434157	-1.2112521581
O	0.0425237298	2.6353839346	-2.2135327448
C	-1.0829189382	4.2425917568	-0.7941325421
C	-1.0257958252	5.2694895412	-1.9261983952
C	0.3892538233	5.7621722804	-2.2233699175
C	1.0806669403	6.1775229731	-0.9309519301
N	1.0762694009	5.1058398946	0.0694601825
N	-0.2303033598	4.6670564246	0.3244381018
C	-0.6219226947	4.4442987732	1.6022115559
O	-1.7099474648	3.9256179492	1.8610988538
C	0.3524595329	4.8489817609	2.7147400202
N	-0.0129102588	4.1563713406	3.9394936816
N	-1.1647978173	4.5695355629	4.6256611812
C	-1.1020860857	5.9901420461	4.9469202864
C	-0.8724084983	6.8189765056	3.6872189784
C	0.3904091166	6.3646875795	2.9742511263
C	0.5327480589	2.9412717987	4.2170007675
O	1.4005057229	2.4451972551	3.5041379653
C	0.0608131107	2.2410014729	5.4873784077
C	0.701430309	2.8801130787	6.7234057362
N	0.4250503126	0.8439082787	5.3551480987
C	-0.2532471693	-0.1191285845	5.9961715373
O	-1.1495892241	0.1005605399	6.8066315641
C	-0.0101249988	-2.4491768672	6.8903301336
C	0.1723113882	-1.5676017837	5.6527993388
N	-0.6405267405	-2.0569708966	4.5224506389
N	-1.6866877489	-2.9509856842	4.6553362049
C	-1.5752465902	-3.7999347059	5.6022400541
C	-0.3830065089	-3.8739517177	6.4975691876
C	-0.3835789601	-1.5976390997	3.2651781111
O	0.5682284639	-0.8701089714	3.0209575395
C	-1.3490687073	-2.0660654234	2.1814641809
O	-1.0012880216	-1.450946182	0.9487059709
O	-0.6834309324	-4.6545242211	7.6248361867
Cl	-0.7433499088	8.5716863982	4.1187000736
C	-1.5568716232	-0.2098219214	-1.6160142298

C	0.7509353778	0.1539185909	-0.6034407762
O	1.2225576561	0.2327957092	-1.9196585761
O	1.1079126239	-2.4153014667	7.7469403612
H	-2.3939555936	-4.5012376072	5.7344971743
H	-1.5982006146	2.146726661	0.4539253037
H	-2.096247924	4.1927137778	-0.3924784885
H	-1.6476566918	6.1188487258	-1.6228198288
H	-1.4843411773	4.8353313948	-2.8182644265
H	0.3490684105	6.6091230133	-2.9154927309
H	0.5825567365	7.0446371639	-0.4841831658
H	2.1268681524	6.444197332	-1.1005831493
H	1.6103192274	4.3126801811	-0.2862403036
H	1.3508375941	4.5167316749	2.437076829
H	-1.9514008063	4.3828806528	4.0029700313
H	-0.2860816335	6.1560700549	5.6566703091
H	-2.0428932325	6.2623182131	5.4297256964
H	-1.7429010991	6.7496515695	3.0305930937
H	0.5264921284	6.8965183274	2.0312170436
H	1.2559376048	6.577315946	3.6093952387
H	-1.0241300527	2.3145432678	5.575024389
H	0.3785446734	3.9176753661	6.8301237105
H	0.3939290073	2.3260926538	7.6127282453
H	1.7917987003	2.8512034306	6.6495693794
H	1.0320038129	0.6023559964	4.5780696304
H	-0.8357392933	-2.0415001619	7.4774706905
H	1.2157735752	-1.5879223275	5.3256003675
H	0.4481156684	-4.3151248274	5.9168374766
H	-2.3771293097	-1.8320179251	2.4603859522
H	-1.2628757943	-3.1385843741	2.0120905389
H	0.0295239677	-4.4904243997	8.2607048249
H	-1.3488782779	-1.2803449495	-1.6618244058
H	-2.630091953	-0.0584272664	-1.4777793302
H	-1.2541639096	0.2429722535	-2.5601675426
H	0.938555643	-0.8645211483	-0.2615753739
H	1.2805078629	0.8402990192	0.0734906356
H	0.958372532	1.1205640777	-2.2382511286
H	1.8807149144	-2.743092544	7.2628061018
H	0.9667348631	4.9685817974	-2.7065268117

Compound **1e**

1e conf_1

energy (M062X/6-31g(d,p)) = -2585.2738195 Hartree

C	-0.6139132845	-0.5812197005	0.871350576
O	0.2413052532	-0.2045391454	1.643005393
C	-1.0369506058	0.1582763969	-0.3918019385
N	-0.727204637	1.5767823836	-0.1700663197
C	-0.7462070064	2.5043508469	-1.1417251929
O	-0.8375563559	2.2491857798	-2.3488607672
C	-0.7115242426	3.9798174929	-0.72538771
C	0.1072129035	4.8241653582	-1.7078758401
C	1.6041129375	4.656221153	-1.4630860951
C	1.9216477303	4.9312867566	0.0026250331
N	1.1153975236	4.1233077104	0.9223983026
N	-0.2506940101	4.2141706713	0.6328227207
C	-1.1165825915	4.6555725523	1.5932253322
O	-2.3161729021	4.7655355535	1.3810502171
C	-0.4884367215	5.1785897105	2.8913044227
N	0.079136848	4.1690454163	3.7864752104
N	0.7377434461	4.6635662194	4.9176669117
C	-0.1653519115	5.4685748423	5.7331427261
C	-0.882846163	6.5632364631	4.9521955645
C	-1.4990590294	6.0180906111	3.6714085026
C	-0.1219834122	2.8352034147	3.6649188549
O	-0.8321017032	2.3643177176	2.7804039281
C	0.6377063903	1.9421576382	4.6515067106
C	2.117033553	1.864453498	4.2663232594
N	0.0634137171	0.6150142586	4.6686043698
C	-0.6711436401	0.1682564102	5.6933347571
O	-0.9650652058	0.8549193806	6.6799691872
C	-0.341683734	-1.8697588024	6.9926442863
C	-1.0651757504	-1.3118776025	5.7484273584
N	-0.7488049466	-2.0883332657	4.5530140244
N	0.0453499217	-3.2132597283	4.5386617812
C	0.247842489	-3.8099065293	5.6478262614
C	-0.3379554586	-3.3862038215	6.9567740994
C	-1.3898340843	-1.7780473412	3.3820683595
O	-2.2628090511	-0.9284535222	3.3452088349
C	-0.9063910193	-2.5126429381	2.1384717741
O	-1.2575722793	-1.7465094693	0.99184243
O	0.4323830365	-3.9354431465	7.996502998
Cl	0.3064339622	7.8917375862	4.5518466006
C	-2.5311441702	-0.0204824044	-0.6722096308
C	-0.1760519419	-0.4841853852	-1.5325082959
O	-0.7205790216	-0.3510131298	-2.8096648009
O	-0.9810085032	-1.4460378437	8.1646666104
H	0.8845592454	-4.6893049486	5.6165653176
H	-0.7279881108	1.8950611928	0.7994282869
H	-1.7568812758	4.3024903948	-0.744077793
H	-0.1753169895	5.8725796826	-1.5638292612
H	-0.1654376739	4.5406619269	-2.7254759436

H	2.1727941523	5.3368671235	-2.1044456912
H	1.7317515101	5.9842989569	0.2387792112
H	2.9688488516	4.7225143895	0.236577763
H	1.3873741614	3.1439332307	0.8569381342
H	0.3544879752	5.8102488418	2.5883729609
H	1.5341692742	5.2184591278	4.6093838812
H	0.409709712	5.8849898033	6.5622025174
H	-0.9252220604	4.7997168052	6.1514811891
H	-1.6370006861	7.046001323	5.5739894285
H	-2.3532166024	5.3893890335	3.943016644
H	-1.8785958201	6.8309439738	3.0497700003
H	0.5394399647	2.347661849	5.6569649867
H	2.5709314166	2.8563970626	4.2833227891
H	2.6471542486	1.2259735844	4.9768571761
H	2.2350459403	1.442175631	3.2643615319
H	0.1689590197	0.0575824299	3.8296654057
H	0.7088528953	-1.5431908269	6.97696027
H	-2.1421675381	-1.3524862598	5.9337358312
H	-1.3824501319	-3.7369957032	7.0080401627
H	-1.4191168886	-3.4679751347	2.0254119446
H	0.1682338046	-2.6846533849	2.175723577
H	0.0672090047	-3.5856885157	8.8221035856
H	-2.7645725374	-1.0647344361	-0.8821301895
H	-3.1210354826	0.3097199776	0.1859572546
H	-2.8052741018	0.5752678268	-1.5433791307
H	-0.1114342869	-1.5571306066	-1.3335249679
H	0.8373741474	-0.0647820646	-1.4561325016
H	-0.8122449921	0.6183688225	-2.9299660629
H	-1.0628224819	-0.4755893959	8.0704588175
H	1.9159660078	3.6363062412	-1.7226079327

1e conf_2

energy (M062X/6-31g(d,p)) = -2585.2737395 Hartree

C	-0.9725468799	0.0995695968	0.7474666077
O	-0.2316364822	0.7622627392	1.4335839605
C	-2.0119706266	0.6704181004	-0.2187236945
N	-1.6641831959	2.0475529655	-0.5373012977
C	-0.4481351388	2.4060410433	-1.032728649
O	0.3609365782	1.6119080483	-1.4980537497
C	-0.1627248036	3.904954505	-0.9059364036
C	0.7319654035	4.47891808	-2.0066370716
C	2.2108505296	4.14328543	-1.8261912185
C	2.6415597647	4.4556582327	-0.3982735941
N	1.7988413364	3.7867770126	0.5944383538
N	0.4480972263	4.1174132198	0.4152573744
C	-0.3406468942	4.3576261048	1.4922262984
O	-1.5716520268	4.4083501748	1.3898916595
C	0.3533528208	4.6146699313	2.8284803113
N	-0.3753420932	3.942437697	3.8962181881
N	-1.6169221173	4.4521045299	4.3015934241
C	-1.5032257541	5.8595248685	4.6765749933
C	-0.9026229714	6.6804100449	3.5398954506

C	0.4512963517	6.1205443095	3.1352555111
C	0.0868729461	2.7690009076	4.3990549731
O	1.1340603041	2.2599400259	4.0088912841
C	-0.719416183	2.0962126944	5.5074246371
C	-0.2387777134	2.5947483012	6.872791214
N	-0.4985747863	0.6722977529	5.3275006946
C	-1.256839555	-0.2675766712	5.895758998
O	-2.1326916648	-0.0450485068	6.7378752843
C	-0.0504734388	-2.21887773	6.7541780796
C	-0.9216305701	-1.7261837251	5.5867601367
N	-0.2678392783	-1.9331249549	4.2980764452
N	0.8556577608	-2.7037266493	4.110463167
C	1.251581426	-3.4349864774	5.0781053746
C	0.5681854264	-3.5597861192	6.4058190288
C	-0.9548077569	-1.5620989232	3.1681128243
O	-2.0497274473	-1.0334880067	3.2465866889
C	-0.2702295557	-1.8411100682	1.835875997
O	-1.0304018614	-1.2407122569	0.7954103963
O	1.5199387113	-3.9731970323	7.3556784837
C1	-0.7272547466	8.4059047857	4.0616581543
C	-3.3578291733	0.6845198838	0.5159851816
C	-2.1310894051	-0.1613187756	-1.5139935329
O	-3.0933207903	0.3875093256	-2.3851330636
O	-0.8325927504	-2.3665645243	7.9108465939
H	2.1497011701	-4.020479952	4.9035107611
H	-2.1309420332	2.7656616844	0.007958055
H	-1.1100531086	4.4457735515	-0.8912451971
H	0.6046517551	5.5670995942	-1.9910838614
H	0.3645214557	4.126693923	-2.9745520892
H	2.8115756941	4.7212023899	-2.5356326914
H	2.5886697791	5.5313415355	-0.1993865815
H	3.66776496	4.1311479325	-0.2074677397
H	1.8802367682	2.775231959	0.4891152563
H	1.3521462146	4.188215679	2.7983041753
H	-2.2377710864	4.365623698	3.4969254022
H	-0.8727558841	5.9357395526	5.5674418616
H	-2.504247873	6.2149797793	4.929663966
H	-1.5867981352	6.7027745912	2.6905584788
H	0.8539228201	6.6506670424	2.2684623483
H	1.1550987275	6.2479464857	3.9639033245
H	-1.7826661664	2.3086818775	5.3957186316
H	-0.4460797562	3.6618148598	6.9845105814
H	-0.7644879628	2.0527608985	7.6606401651
H	0.8362519546	2.4292596875	6.9811053895
H	0.2387225676	0.4221052584	4.6791060846
H	0.7735883965	-1.5095303737	6.9213202947
H	-1.8701740751	-2.270315062	5.6099012953
H	-0.2448295958	-4.2988915728	6.3138231484
H	-0.260125192	-2.9100181423	1.6234458366
H	0.7547715294	-1.4700785491	1.839281861
H	1.0534399654	-4.0558080135	8.1994967469
H	-4.1269457994	1.0600895923	-0.1616085269
H	-3.6210386015	-0.3252396217	0.832739853
H	-3.3115814464	1.3206463011	1.4037525194

H	-2.470491933	-1.1664756745	-1.2613576539
H	-1.1494132883	-0.231802848	-1.9921754255
H	-2.813169687	1.2947465871	-2.5746490335
H	-1.3933814128	-1.5723816394	7.9789733071
H	2.3807983543	3.0830570977	-2.0342640384

1e conf_3

energy (M062X/6-31g(d,p)) = -2585.2691808 Hartree

C	-0.6398906181	-0.3692345896	0.7376298383
O	0.1096663038	0.2139749883	1.4883802742
C	-1.3151538085	0.2808141826	-0.4679016023
N	-0.9349496612	1.6862464072	-0.3733933193
C	-1.3257620045	2.6737731089	-1.2057102102
O	-1.9229826394	2.4955651536	-2.2623377305
C	-1.0178962137	4.1058969943	-0.7294817646
C	-0.5480766377	5.0020015729	-1.8785795528
C	0.927837879	4.7795194309	-2.1947764494
C	1.7524086385	4.9151364022	-0.9201303081
N	1.2969359234	4.0139298801	0.1434930147
N	-0.0784122897	4.158142199	0.3894618119
C	-0.5089534914	4.509661221	1.6359122795
O	-1.6951725629	4.7447058029	1.8621918836
C	0.5344843976	4.551572737	2.7562194964
N	-0.0519634152	3.9628564306	3.9542808475
N	-1.043142953	4.6742016108	4.6460484584
C	-0.5551475068	6.0006455024	5.0177396279
C	-0.0662109575	6.7663137719	3.7915744133
C	1.0125549642	5.9810217568	3.0624090554
C	0.2774918721	2.699931985	4.3303234384
O	1.1371416339	2.0479680153	3.7451256897
C	-0.4537030124	2.104308641	5.5303325177
C	0.2542476426	2.4872044587	6.8323805196
N	-0.4587470812	0.6670168914	5.3130837194
C	-1.3108190622	-0.1459859851	5.9381227478
O	-2.1179331023	0.2305057446	6.7977366135
C	-0.5109300175	-2.2102149627	6.9604964279
C	-1.205462915	-1.6517252287	5.7026853732
N	-0.519267576	-2.0551127293	4.4779514724
N	0.4917601581	-2.9895767596	4.4266372319
C	0.7037341666	-3.7065829034	5.459744831
C	-0.08966801	-3.6487152569	6.7273303733
C	-1.0972020836	-1.7220276609	3.2764572836
O	-2.0995681237	-1.0315714496	3.2288363463
C	-0.4171943354	-2.2799870738	2.0312248371
O	-0.9647765258	-1.6554846816	0.8742707358
O	0.7064815811	-4.1463932888	7.7747589726
Cl	0.5817608854	8.3793744901	4.2989350298
C	-2.8342923725	0.0951248996	-0.4006950353
C	-0.7460839015	-0.3614738283	-1.7491594648
O	0.6606502008	-0.3141965673	-1.7958449261
O	-1.3853374007	-2.1675434186	8.0562624757
H	1.5179309961	-4.4223476904	5.3904037937

H	-0.4977919227	1.9396179728	0.50421988
H	-1.9658990082	4.4822503342	-0.3354957958
H	-0.707889789	6.0448099804	-1.5848155
H	-1.1791988546	4.7998982042	-2.7460578797
H	1.2682635009	5.5028283427	-2.9420828897
H	1.6935116283	5.9383106052	-0.5339998952
H	2.8067510146	4.6840366209	-1.0914796177
H	1.465423358	3.0489946484	-0.1355075149
H	1.3890917252	3.9403705165	2.4795881798
H	-1.8255997246	4.7698717881	3.9984092151
H	0.2610286226	5.8850737616	5.7371743011
H	-1.3758358188	6.5296675519	5.5067218805
H	-0.9051099521	6.9880034344	3.1299989866
H	1.3070437986	6.4837069447	2.1378959718
H	1.8984161722	5.9091103303	3.7013268864
H	-1.4842544827	2.457696466	5.5630082775
H	0.2081627189	3.5676011312	6.9868930838
H	-0.2407899649	1.9944239435	7.6712242639
H	1.3019112971	2.1763201319	6.8044098937
H	0.1923947683	0.3195819084	4.6182973989
H	0.4023483036	-1.629868579	7.1594511647
H	-2.2318202164	-2.0299737013	5.6835546222
H	-1.0001634742	-4.2573797245	6.5996887569
H	-0.6322310208	-3.3432251838	1.9239643839
H	0.6618439495	-2.1383173992	2.0755979573
H	0.1723804083	-4.0894500208	8.5798602909
H	-3.0921287562	-0.9637088625	-0.4614448926
H	-3.2270045214	0.4969616038	0.5360587529
H	-3.2978581658	0.6244647252	-1.2345326058
H	-1.2054632428	0.1346204423	-2.6099639086
H	-1.025401018	-1.4165913172	-1.7624647569
H	0.9167440211	0.6140487696	-1.8823151185
H	-1.8069208238	-1.286257861	8.0362408482
H	1.0796585057	3.7802622865	-2.6238556888

1e conf_4

energy (M062X/6-31g(d,p)) = -2585.2672102 Hartree

C	-1.2243006796	0.3665950561	0.6391807066
O	-0.2564821801	0.8553180855	1.1754183458
C	-2.1870943308	1.0924864237	-0.3026299094
N	-1.5948293652	2.3558336349	-0.7084483406
C	-0.3245253491	2.4455491347	-1.1965348085
O	0.2721884334	1.5133607116	-1.7172468636
C	0.2912804488	3.83528101	-0.9942995212
C	1.5891432513	4.0521397908	-1.7704956881
C	2.7895480214	3.3676802235	-1.1197808303
C	2.8572845254	3.7386933409	0.3565192016
N	1.6139794237	3.4476608933	1.0665554149
N	0.5139039899	4.0441689191	0.4452225406
C	-0.4459371733	4.6147759536	1.2130729647
O	-1.5331183113	4.9470014984	0.7320262675
C	-0.0933744931	4.8905761145	2.6761144803

N	-0.1806327958	3.6961712398	3.5077319539
N	-1.5007518355	3.2306405751	3.6150451793
C	-2.322078616	4.1406144067	4.4041546076
C	-2.3959819557	5.4337143571	3.6006511331
C	-1.0076066475	5.9734309093	3.2799744157
C	0.7940483302	3.4759561252	4.4477211162
O	1.8655437967	4.0652891199	4.411489259
C	0.5053011057	2.4734290832	5.577021159
C	1.7064429686	2.3605778997	6.5073968997
N	0.08018408	1.1605465512	5.0996281497
C	-0.6870732417	0.3861775569	5.8949392327
O	-1.2191478848	0.8021667721	6.9259086097
C	0.0486270173	-1.8060857992	6.6643227028
C	-0.817741232	-1.1034960947	5.5977421098
N	-0.4448204924	-1.5072178704	4.2460413397
N	0.4084556252	-2.5485455228	3.9505147263
C	0.7361477526	-3.3441092047	4.8913705557
C	0.2342774452	-3.2674904461	6.2986306395
C	-1.201542813	-1.0311551975	3.205376098
O	-2.0817218513	-0.2079748825	3.393415565
C	-0.8756350326	-1.6008212638	1.8318822445
O	-1.6163697062	-0.8980143571	0.8455794797
O	1.1607459598	-3.9097642353	7.1382516591
C1	-3.3333687646	6.6708228024	4.5381503298
C	-3.4651916376	1.4028261692	0.485887227
C	-2.5250465956	0.235356463	-1.5433655716
O	-3.3859811898	0.9301553662	-2.4148293101
O	-0.5696014913	-1.7392688365	7.9200813134
H	1.4215366212	-4.14471587	4.62837296
H	-1.932559434	3.1885059738	-0.2303163537
H	-0.4502321753	4.5808591314	-1.2909932963
H	1.769001079	5.1316438607	-1.8211545465
H	1.4446407526	3.6974137909	-2.7942105542
H	3.7116557864	3.6689207863	-1.6271601418
H	3.0617095092	4.8085869456	0.4761605972
H	3.6493550876	3.1903236986	0.8732434411
H	1.4366165882	2.4444309406	1.1045747672
H	0.9448287627	5.2147550251	2.7283422553
H	-1.510935258	2.2631486081	3.917543485
H	-1.9129087031	4.3453518201	5.4052391896
H	-3.3135503613	3.6972693953	4.5160830847
H	-2.9576455799	5.2666564113	2.6841027929
H	-1.0798055778	6.8267925252	2.6024694457
H	-0.5345954465	6.3168343331	4.2060787767
H	-0.3447585798	2.8598807067	6.1485667508
H	1.9690145214	3.338336085	6.9138992681
H	1.4575169706	1.6922406129	7.3344768642
H	2.5748664905	1.9662192729	5.9753724122
H	0.6062447759	0.7159098997	4.3583760301
H	1.0469489262	-1.3445162816	6.6865614159
H	-1.8637796269	-1.3650736635	5.7820321176
H	-0.7511933664	-3.7597837099	6.346023739
H	-1.1949884503	-2.6407691232	1.7642297888
H	0.1944845016	-1.5458721806	1.6326621182

H	0.8110314738	-3.8458369662	8.0385198596
H	-3.9083916456	0.4793214711	0.8603448649
H	-3.2478251699	2.0544432493	1.3363267706
H	-4.1787065738	1.8954550446	-0.1776904472
H	-3.0527200004	-0.6650973897	-1.2263761271
H	-1.5964887553	-0.056846507	-2.0438455187
H	-2.9345105149	1.7551336515	-2.6470752948
H	-0.8485396202	-0.8129674479	8.0463154061
H	2.6965364833	2.281993423	-1.2204827055

1e conf_5

energy (M062X/6-31g(d,p)) = -2585.2670317 Hartree

C	-0.6582606882	-0.4446697287	0.5967334703
O	0.2444416547	0.0214625634	1.2571666596
C	-1.4242537074	0.330553027	-0.4730407375
N	-0.84420707	1.6680852348	-0.4119544807
C	-1.1608601471	2.7295156775	-1.1569453533
O	-1.9105971882	2.7197982005	-2.1436438271
C	-0.5420330568	4.0685167971	-0.739388305
C	0.5223461698	4.557401345	-1.739925999
C	1.8577944353	3.8299187859	-1.5654509875
C	2.2905417893	3.8264138425	-0.1008741545
N	1.1913696066	3.2680181938	0.6806726217
N	0.0448500432	4.0750286061	0.5937047335
C	-0.426440526	4.8907999849	1.5700735172
O	-1.4970491016	5.4929605565	1.4591653479
C	0.3801028458	4.9956836134	2.8665422839
N	-0.2712574339	4.1885524455	3.9020981705
N	-1.4504902912	4.6673546403	4.4853362083
C	-1.2633498762	6.0015681692	5.0490209128
C	-0.76422395	6.9712895899	3.986322236
C	0.513506628	6.4507596032	3.348617733
C	0.1490445153	2.9226916194	4.1560393176
O	1.0662316786	2.4030767644	3.5183180601
C	-0.49749809	2.1901777421	5.3211848304
C	0.2150944976	2.5909962527	6.618679706
N	-0.3935647804	0.7635939674	5.0650686185
C	-1.1480320606	-0.1042153598	5.7461867809
O	-1.9346576339	0.239730921	6.6375966734
C	-0.098288558	-2.0551257635	6.7680983593
C	-0.9477816989	-1.6063477932	5.5623842303
N	-0.3553687508	-2.0314895369	4.2966646758
N	0.6566554352	-2.9583667077	4.188291245
C	0.9993797452	-3.6096765774	5.2294693129
C	0.3580338161	-3.4893177975	6.5760121212
C	-1.0484059292	-1.748189393	3.1457376432
O	-2.0441986135	-1.0459815989	3.1700965075
C	-0.5218739348	-2.3738723224	1.8594930376
O	-1.1035859712	-1.6932537676	0.7506982101
O	1.2915025574	-3.8851300261	7.5510847366
Cl	-0.4553670466	8.5892204338	4.74039987
C	-2.9114739073	0.3625006967	-0.0952263557

C	-1.2217364326	-0.3450763858	-1.8550547858
O	-2.130607788	0.1019721612	-2.8221703547
O	-0.8503754207	-1.9830873833	7.9498929869
H	1.8131649126	-4.3186677523	5.1063048377
H	-0.0689118271	1.7914656103	0.2429617481
H	-1.3737844082	4.7731129613	-0.7152031789
H	0.6634167784	5.6295835221	-1.5657370317
H	0.1362685074	4.4378866718	-2.7555121177
H	2.6235341518	4.3091733106	-2.1822146611
H	2.5514882081	4.8432429503	0.2306979781
H	3.1594119167	3.181549603	0.0499032974
H	1.388236586	3.0249375077	1.6502269987
H	1.3863449981	4.6001914224	2.7472364751
H	-2.1621293071	4.7003368181	3.7557931964
H	-0.5434302085	5.934646952	5.8698729686
H	-2.2235309252	6.323086938	5.4573224741
H	-1.5317381479	7.1385591488	3.2325300716
H	0.8163625251	7.0833808236	2.5109199031
H	1.315943578	6.4759927546	4.092541953
H	-1.5516308917	2.4546777886	5.3952800125
H	-0.2124342374	2.0288255698	7.4502766317
H	1.2840493586	2.3730938943	6.5505314478
H	0.0825280656	3.6571185744	6.8158109905
H	0.2504925785	0.4611522428	4.3447826013
H	0.8029532076	-1.4269293182	6.8306477977
H	-1.9424532279	-2.051459758	5.6618733722
H	-0.5339687853	-4.1368187326	6.5981616753
H	-0.8554354971	-3.4092791315	1.7829222203
H	0.5646097433	-2.3416068032	1.8120581796
H	0.8493234021	-3.8007637545	8.4078748248
H	-3.0386814592	0.7513415457	0.9170224375
H	-3.4465752276	1.0031896069	-0.7959003244
H	-3.3358698429	-0.6414551813	-0.144971283
H	-1.3782166002	-1.420529555	-1.74023224
H	-0.1765301538	-0.1844260431	-2.1591485532
H	-2.1112854605	1.0836720303	-2.784544324
H	-1.3487832182	-1.1437504093	7.9151293068
H	1.7682051431	2.7916268982	-1.9043951632

1e conf_6

energy (M062X/6-31g(d,p)) = -2585.2658839 Hartree

C	-2.1108721854	-0.0399055632	1.1434951027
O	-2.7871709376	0.8628664605	1.5785347888
C	-1.1003075234	0.1021730814	0.0041176701
N	-0.9841629072	1.5440857471	-0.2063820142
C	-0.0430099278	2.1673765764	-0.9267768551
O	0.8388301203	1.5988050452	-1.5837171215
C	-0.1346816695	3.7027695463	-0.8845957807
C	0.7821624244	4.3842415161	-1.9012371958
C	2.2430950343	4.4041380635	-1.4542505643
C	2.3470538115	4.9564522305	-0.0377567639
N	1.4843913293	4.2475344184	0.9068663484

N	0.1615029589	4.210196877	0.4592034623
C	-0.8381003919	4.3654106027	1.3668654327
O	-2.0019761857	4.0754249825	1.1003020486
C	-0.4708082534	5.1099825275	2.6568377851
N	-0.1593036863	4.2442873886	3.804370064
N	0.0964378527	4.8929839726	5.0184132237
C	-1.021725772	5.731123073	5.4275159468
C	-1.4433113131	6.7238378564	4.3545941682
C	-1.64898028	6.0162961713	3.0274661416
C	0.0064974417	2.9018798531	3.7426981823
O	-0.0939291209	2.2681179121	2.6940538968
C	0.3500054811	2.1804425573	5.0437752714
C	1.8632235054	2.1938901467	5.2808130032
N	-0.1545320668	0.8262970634	4.904070214
C	-0.4273682699	0.060178614	5.9615786822
O	-0.2607427225	0.4232406343	7.1327954968
C	0.4321991411	-2.2111742733	6.0957973277
C	-0.8258343596	-1.3960485963	5.7354279584
N	-1.3191076155	-1.7122438674	4.3961940963
N	-0.879328083	-2.7834597733	3.6474138898
C	-0.1431089063	-3.6570622813	4.2138820262
C	0.2623629391	-3.6512688637	5.6539896655
C	-2.5147021545	-1.14159806	4.0136494763
O	-3.094875283	-0.361901471	4.7490315399
C	-3.0862137716	-1.5479129166	2.6590095724
O	-2.179598726	-1.3010457613	1.5825440104
O	1.4501915648	-4.3932975508	5.7859571782
Cl	-0.1633963098	8.0158179864	4.1912949693
C	-1.6864730778	-0.5856880629	-1.23857994
C	0.2486477433	-0.5576474934	0.4143182502
O	1.0632617482	-0.9033716417	-0.672092967
O	0.6457645216	-2.1878231433	7.4815124317
H	0.1914431665	-4.4795938331	3.5877680278
H	-1.6222088176	2.1224185143	0.3401752345
H	-1.1740089651	3.976449886	-1.0797357116
H	0.425537213	5.4128102362	-2.0251332123
H	0.675791407	3.8816887975	-2.8653256717
H	2.8358531157	5.0180123067	-2.1400218938
H	2.0565212705	6.0125991537	-0.0134342431
H	3.3668474437	4.8833476789	0.3491701284
H	1.8013832584	3.2880116861	1.0407466916
H	0.4229109354	5.7064269304	2.4558737625
H	0.9369770018	5.4589453659	4.9088418825
H	-0.7391643777	6.237463559	6.3521928236
H	-1.8749971668	5.0795417985	5.6429477733
H	-2.3440946546	7.2601407165	4.6531812479
H	-2.5496070334	5.4001063678	3.1095689473
H	-1.8197362028	6.7397190182	2.2269544011
H	-0.1528520965	2.6510871449	5.8873672826
H	2.2218569219	3.2149750728	5.4262023906
H	2.0911775675	1.6151026452	6.1782792523
H	2.3875213163	1.7499811927	4.4303779504
H	-0.2781768804	0.4855096071	3.9590775117
H	1.2979082573	-1.8017034468	5.5535575246

H	-1.6030102478	-1.6210083593	6.4718064713
H	-0.550916111	-4.0992166763	6.2486230867
H	-4.0046463244	-0.9802455887	2.5193929615
H	-3.2869114507	-2.6175949979	2.630468392
H	1.6883850722	-4.3708673888	6.7237127865
H	-1.8000713733	-1.6575533793	-1.0641685876
H	-2.6601559382	-0.1567383426	-1.4874062471
H	-1.0097689123	-0.4418444819	-2.0810220406
H	0.0266482611	-1.483140662	0.946659767
H	0.7506110824	0.1263958474	1.1130931343
H	1.1903772687	-0.0672056977	-1.1676055853
H	0.52213754	-1.259750796	7.7620707482
H	2.6514323357	3.3893285399	-1.4832571067

1e conf_7

energy (M062X/6-31g(d,p)) = -2585.2657816 Hartree

C	-1.017972925	0.1520803563	0.726323218
O	-0.2123522748	0.7840705962	1.3679882771
C	-2.072141604	0.7658643883	-0.1969914951
N	-1.6701386496	2.1224225644	-0.5398567821
C	-0.4498362914	2.4141826198	-1.0696887499
O	0.2884139865	1.5825418879	-1.5830132898
C	-0.0654387486	3.8895321423	-0.9139545258
C	0.9113135262	4.4054355293	-1.9715445004
C	2.3537393415	3.9646668526	-1.7328534377
C	2.7464825022	4.2451557525	-0.2880822078
N	1.8204084779	3.6344511033	0.6668414147
N	0.5030487784	4.053599983	0.4345320611
C	-0.3102749191	4.3383638377	1.4809590519
O	-1.5333315463	4.4538644353	1.3308646427
C	0.3401374426	4.5639712265	2.8444389177
N	-0.4298802148	3.8777717312	3.8736148078
N	-1.687573428	4.3820259727	4.2315667385
C	-1.5895851544	5.7836669704	4.6334429339
C	-0.9353107123	6.6242132723	3.541559361
C	0.4313699695	6.0644545765	3.180832451
C	0.0315687	2.7257688432	4.4270569787
O	1.1150517981	2.2399892239	4.1132475141
C	-0.8382844698	2.0519604141	5.4858595708
C	-0.5907254241	2.6724530951	6.8632888447
N	-0.4851166682	0.6466177273	5.4507625075
C	-1.346664453	-0.3167671299	5.8205827087
O	-2.4149767418	-0.1058069359	6.3816375736
C	0.1555243355	-2.1442352023	6.6616780522
C	-0.8690211977	-1.7579616192	5.5849689812
N	-0.2785317948	-1.9533360021	4.253695296
N	0.8092489115	-2.7491594776	3.9946415637
C	1.2951540131	-3.4545590477	4.9391727625
C	0.7636111389	-3.5015671427	6.338686127
C	-0.9849945665	-1.529869552	3.1553920582
O	-2.0544175654	-0.9587899443	3.2732905846
C	-0.3543456574	-1.8126262102	1.7965997715

O	-1.1366997152	-1.1825369177	0.790304737
O	1.8214533276	-3.8169962273	7.2097453596
Cl	-0.7706743199	8.3362497203	4.1113283079
C	-3.3822069216	0.8527276308	0.5950986657
C	-2.2876626787	-0.0681144414	-1.4783356254
O	-3.2503417189	0.5285316673	-2.3168454923
O	-0.3934157808	-2.105548317	7.9552343321
H	2.1623479769	-4.0599529973	4.6913802443
H	-2.0729761562	2.8640383278	0.0267028594
H	-0.9748261276	4.4924782455	-0.932669255
H	0.8608974751	5.4997965409	-1.9535789124
H	0.5602629928	4.0835477764	-2.9558096107
H	3.0229648316	4.497526434	-2.4156511047
H	2.7586617228	5.3218014015	-0.0877715625
H	3.739522941	3.8514136494	-0.0566348749
H	1.8368475091	2.6193369094	0.5665835862
H	1.3368117404	4.1313077641	2.8417192715
H	-2.2737507709	4.309554598	3.4004112013
H	-1.001259518	5.8440279277	5.5540377035
H	-2.6006801549	6.1372149371	4.8460946596
H	-1.5821592537	6.6723813803	2.664854244
H	0.8702264185	6.6089697936	2.3409028086
H	1.1023929082	6.1730595314	4.038891264
H	-1.8937866712	2.1540098505	5.2312063453
H	0.4694063615	2.6154625569	7.1243525079
H	-0.9055329469	3.7182518152	6.8799424702
H	-1.1675147904	2.1232624028	7.610332448
H	0.3663975176	0.4271025202	4.9476251527
H	0.9705752977	-1.4143914291	6.6713665332
H	-1.763190536	-2.3836091536	5.6789459056
H	-0.0283451969	-4.2692644949	6.3886251137
H	-0.3786211814	-2.8792992803	1.5748868012
H	0.6783167603	-1.4660058985	1.7646010239
H	1.4707289732	-3.714615023	8.1071999807
H	-4.1614761258	1.2556381955	-0.054686847
H	-3.6796088683	-0.1383701715	0.9396787687
H	-3.2673383135	1.4992174005	1.4691495563
H	-2.6732458885	-1.0505636588	-1.2034632192
H	-1.3309336465	-0.1976138061	-1.9933010335
H	-2.9296715656	1.4198976705	-2.5178348109
H	-1.1840188973	-2.6651740005	7.9760289795
H	2.4549650753	2.8948023314	-1.9361882648

1e conf_8

energy (M062X/6-31g(d,p)) = -2585.2646488 Hartree

C	-0.9316394445	-0.8691157857	0.1109336068
O	-1.3121416408	-2.0154873867	0.1222971868
C	-1.5659866083	0.2008080671	-0.7776241716
N	-0.9342496236	1.494582602	-0.5090978198
C	-1.203769216	2.6389377476	-1.1466398833
O	-1.9275634682	2.7488157157	-2.1467069976
C	-0.5497980513	3.9193366118	-0.6241877423

C	0.6168843151	4.3648087645	-1.5294872089
C	1.8855455625	3.5496129105	-1.2741366616
C	2.2069826174	3.4993361151	0.2166767696
N	1.0224578072	3.0008638013	0.9159829848
N	-0.0692477021	3.8729222483	0.749633678
C	-0.4990080409	4.7870729071	1.6613451431
O	-1.5167776859	5.4572303242	1.4808592508
C	0.2968771191	4.936125985	2.9620847079
N	-0.3753309421	4.2111140578	4.0430637743
N	-1.5421285219	4.7458410923	4.5997727059
C	-1.3254168042	6.1097474931	5.0783346485
C	-0.7984071995	7.0008849005	3.9611535788
C	0.467341747	6.4121892785	3.3589700137
C	0.0409382928	2.9746702516	4.3968137372
O	0.9777473088	2.4191337111	3.8146639813
C	-0.6530109786	2.2830485973	5.5671893972
C	-0.1396687684	2.8211598577	6.9053187088
N	-0.3718950209	0.8725930509	5.3994980137
C	-1.1943469014	-0.0972386474	5.8073388675
O	-2.1671422842	0.0768994543	6.5468093106
C	-0.1870089029	-2.149312164	6.6900915294
C	-0.8261830676	-1.5323069411	5.4339665185
N	0.0495694218	-1.6433350244	4.2706677474
N	1.1917839915	-2.4082656408	4.2256841164
C	1.4004112568	-3.2315920091	5.1775094671
C	0.4806262565	-3.4653987364	6.3367876769
C	-0.3969636759	-1.1398999582	3.0745167873
O	-1.4818684686	-0.5923045367	2.9850691318
C	0.5476714222	-1.2780843653	1.8870608531
O	0.0801900909	-0.4118868452	0.8622806398
O	1.2367430105	-3.9834234136	7.4036173549
Cl	-0.4486797806	8.6512172568	4.6206526822
C	-3.0562328007	0.2464650942	-0.4095458115
C	-1.3798064757	-0.2656691716	-2.2505565402
O	-2.3019189494	0.2907753388	-3.1433149199
O	-1.1691891645	-2.3846768852	7.6642515679
H	2.3168177839	-3.81183606	5.1201939137
H	-0.2197541965	1.549335526	0.2173966482
H	-1.3382406712	4.6708656148	-0.649360359
H	0.808549093	5.4220611482	-1.3151585525
H	0.30403291	4.2940041437	-2.5743796573
H	2.7247140614	3.9870160725	-1.8225765544
H	2.5043343158	4.4950118317	0.5811607468
H	3.0225482597	2.8014389342	0.4203118071
H	1.1558441387	2.7912214818	1.9056416125
H	1.2907993132	4.5031912407	2.8693406245
H	-2.2596842535	4.7438860299	3.875731136
H	-0.6103078046	6.0769591123	5.9054943995
H	-2.2791444521	6.478359177	5.4607993274
H	-1.5593336873	7.144052146	3.1960001499
H	0.7873269659	6.9878375062	2.4874780079
H	1.2686165294	6.4595005511	4.1030560773
H	-1.7312048169	2.4373733084	5.5066874006
H	-0.6058620687	2.2565299403	7.715272543

H	0.9452209156	2.7089173714	6.9764580713
H	-0.3976528641	3.8754751415	7.0227900282
H	0.4073878345	0.6611938555	4.7878704047
H	0.595444244	-1.4761306008	7.0705841078
H	-1.7684430272	-2.0514107554	5.235933374
H	-0.3026791856	-4.1761750176	6.0257331516
H	0.5826322482	-2.3104507063	1.5358093196
H	1.5539080623	-0.9489003479	2.1388387737
H	0.6208696604	-4.1303371548	8.1355383162
H	-3.5587419527	1.0017792752	-1.0129303254
H	-3.5164405547	-0.7235429665	-0.6039028801
H	-3.1734144552	0.4921305478	0.6482197081
H	-1.5265064752	-1.3477278219	-2.2727756116
H	-0.3390594347	-0.055529686	-2.5400601675
H	-2.2541043669	1.2606206606	-2.9963811225
H	-1.7159981316	-1.5788245333	7.7136564802
H	1.7561360311	2.5249093104	-1.640069281

1e conf_9

energy (M062X/6-31g(d,p)) = -2585.2642137 Hartree

C	-1.1973246536	-0.9388626819	0.1219368267
O	-1.5908244908	-2.0806309202	0.1023835312
C	-1.5285137022	0.0847450308	-0.9605965662
N	-1.5074268113	1.4307073755	-0.3862185901
C	-1.5939538324	2.5535764962	-1.1361363077
O	-1.9414830107	2.5685447297	-2.3129110709
C	-1.2434071854	3.8725307005	-0.4440741541
C	-0.5258317522	4.8317403083	-1.4078985372
C	0.9138192701	4.3870560985	-1.6803754211
C	1.6609716352	4.086476361	-0.3836581052
N	0.8522972278	3.133977933	0.3799386603
N	-0.395287223	3.6931525222	0.7309904065
C	-0.6092734117	4.5086149177	1.8137373196
O	-1.6969862655	5.0530130356	1.9961241672
C	0.4968226834	4.6779221155	2.8540494585
N	0.0324283663	4.1032405649	4.1152450188
N	-0.9272583546	4.7920836987	4.8676681145
C	-0.4797289486	6.1489207777	5.1674357097
C	-0.1620447268	6.9064359637	3.8837662523
C	0.8765098524	6.1551039007	3.0655326511
C	0.3010540753	2.8030915654	4.3912209615
O	0.9698961388	2.1084707073	3.625662202
C	-0.2208868242	2.2423810666	5.7137538496
C	0.6413133541	2.7120668175	6.8879226848
N	-0.2039835493	0.8049246402	5.5601822498
C	-1.1389050135	-0.0049024029	6.0667208451
O	-1.9805628664	0.3330683142	6.9033627625
C	-0.4428173404	-2.2086044257	6.8725506316
C	-1.0679010702	-1.478097919	5.6708409793
N	-0.323544877	-1.7197875427	4.4400415126
N	0.6990198348	-2.6310645963	4.3146918408
C	0.850637136	-3.4894045228	5.246486307

C	-0.0180126634	-3.6062285161	6.4616213211
C	-0.7803180838	-1.1434294917	3.2787701474
O	-1.7984239093	-0.4751229411	3.2605728972
C	0.0869629062	-1.354312594	2.0495166925
O	-0.347352412	-0.4547478244	1.0382907592
O	0.7142226988	-4.2601735524	7.4684866712
Cl	0.4619487439	8.5563522061	4.2891237387
C	-2.8796532331	-0.2582781295	-1.5811662286
C	-0.3934472501	-0.018874924	-2.0172325892
O	0.8604761438	0.3583461383	-1.5047168519
O	-1.3741754214	-2.3001314755	7.9178120018
H	1.671963008	-4.1901789037	5.1280447425
H	-1.1503750665	1.5261608055	0.554709102
H	-2.1748847973	4.3222596306	-0.0942007348
H	-0.5299616509	5.8248339784	-0.9454503528
H	-1.0945049875	4.8940501075	-2.3370237411
H	1.4437240902	5.1607189454	-2.2432842169
H	1.8485505022	5.0129376427	0.1808052366
H	2.6239604067	3.6112985294	-0.5851741268
H	1.2936160256	2.7520130145	1.2105511216
H	1.3991973776	4.1366364158	2.5840255563
H	-1.7762320854	4.8335176061	4.3027081728
H	0.4083136875	6.0907525869	5.8036112273
H	-1.2763863612	6.6420587307	5.7279055972
H	-1.0712471747	7.0703881864	3.3061631552
H	1.0336799926	6.639817235	2.0987484823
H	1.8294809658	6.1714097985	3.6033289606
H	-1.2512434925	2.5614470549	5.8741541222
H	0.5815263634	3.7964174936	7.0002709918
H	0.2773754371	2.2460942996	7.8061683663
H	1.6859055677	2.4260371332	6.7397452588
H	0.4365164543	0.4607745571	4.8554492365
H	0.4621426161	-1.6728142665	7.195252058
H	-2.0992801376	-1.8227283852	5.5548804876
H	-0.9226902075	-4.1773146878	6.1948701624
H	0.0235774894	-2.3839387334	1.6958560296
H	1.1274806514	-1.1118119917	2.2618914069
H	0.1343698874	-4.3177899829	8.2411290692
H	-3.1084547713	0.4569652719	-2.370284522
H	-2.855036983	-1.2668346608	-1.9969755592
H	-3.6658727663	-0.2158140048	-0.823869268
H	-0.6884503828	0.596208972	-2.8742173102
H	-0.3106553425	-1.0569943495	-2.3488905639
H	0.7537823142	1.2006319854	-1.0264984736
H	-1.7612640485	-1.4115461197	8.0246837265
H	0.9093262343	3.4814465794	-2.297538151

1e conf_10

energy (M062X/6-31g(d,p)) = -2585.2635966 Hartree

C	-0.9544635489	-0.8516191894	0.3038449903
O	-1.2883822962	-2.0064602838	0.4224173052
C	-1.5317678202	0.0653379264	-0.773645657

N	-1.1405734658	1.448431738	-0.4830193482
C	-1.3276425109	2.5065524061	-1.2886489919
O	-1.7044945313	2.4394611274	-2.4622928212
C	-1.0919303102	3.8867141466	-0.6589395407
C	-0.5846120344	4.9010571951	-1.686250078
C	0.890347569	4.6714221396	-2.0027881103
C	1.697782874	4.642162678	-0.7101281893
N	1.1828810929	3.6753520816	0.2666595218
N	-0.1934983158	3.8375179086	0.4920102161
C	-0.6414217232	4.1974366489	1.7311639567
O	-1.8313781088	4.4245280275	1.9411767878
C	0.3973921548	4.2938074811	2.8490570648
N	-0.1869673188	3.8044662233	4.0900055029
N	-1.1719519318	4.5705197687	4.7298382674
C	-0.6871376649	5.9251190466	4.9877164821
C	-0.1896004103	6.5852070575	3.7054457475
C	0.8900402196	5.7381931461	3.0510797627
C	0.167315786	2.5926953147	4.5845322374
O	1.0075379204	1.8865217597	4.0286489338
C	-0.5040893664	2.1253946335	5.8809752709
C	0.1312383399	2.783681425	7.1063609902
N	-0.3494114307	0.6854924772	5.9045001207
C	-1.4036849949	-0.1583288556	5.9554098362
O	-2.5266275113	0.1475664307	6.3284476707
C	-0.4039399257	-2.3044660184	6.7953103019
C	-1.0633411891	-1.6130384571	5.5924553998
N	-0.1724442462	-1.6841351197	4.4258152036
N	0.9363230884	-2.4888634487	4.3282276596
C	1.1162541864	-3.3854462792	5.2171326816
C	0.1959722997	-3.638425225	6.3702296915
C	-0.527241137	-1.0036976518	3.2880481218
O	-1.5714277027	-0.3797108004	3.2206794531
C	0.474983937	-1.0500431824	2.1425906199
O	-0.0253341145	-0.2620126364	1.0687467799
O	0.9300105582	-4.2299771082	7.4125413088
Cl	0.4621442042	8.2318418742	4.0823678827
C	-3.0568333547	-0.0789078217	-0.7473410305
C	-0.9545964347	-0.4496462192	-2.1283729678
O	-1.7255863524	-0.1157879703	-3.2446174671
O	-1.2905520087	-2.4434278633	7.8769673016
H	2.0072211765	-3.9978965502	5.1131255486
H	-0.8825699893	1.644105103	0.4750645999
H	-2.0623960644	4.2051497809	-0.2666542643
H	-0.7243527155	5.903034443	-1.2667123774
H	-1.2008106763	4.8251308017	-2.5834306548
H	1.2657631267	5.4623314611	-2.659239648
H	1.6873999052	5.6293215013	-0.2359689446
H	2.7417393363	4.3731916933	-0.8892737932
H	1.32893099	2.7268655269	-0.0741628336
H	1.2444877434	3.6550199259	2.6141472049
H	-1.9620615116	4.6080572316	4.0861591056
H	0.125479708	5.8741808506	5.7187121666
H	-1.5111888132	6.492473827	5.4252352353
H	-1.0234197209	6.7548124045	3.0222981366

H	1.1996832959	6.1682993958	2.0958563084
H	1.7678824856	5.7050640115	3.7038438746
H	-1.5706363233	2.3497708767	5.855229222
H	-0.0234321645	3.8641179963	7.0907808241
H	-0.3272008177	2.3794557406	8.0118616689
H	1.2052200312	2.5804141031	7.1418263952
H	0.4875572953	0.368142766	5.4278753215
H	0.4149843359	-1.6844013945	7.1713022756
H	-2.0142783313	-2.1008615676	5.3554272758
H	-0.6164626313	-4.3051599606	6.0314620505
H	0.6612032334	-2.0712619534	1.8136097678
H	1.4132082399	-0.5877795812	2.446884777
H	0.3406114481	-4.2455877025	8.1815091427
H	-3.4949944029	0.5539228425	-1.5190662627
H	-3.3376434084	-1.1149752109	-0.9413823018
H	-3.4498420268	0.2197980388	0.2274277904
H	-0.9341653965	-1.5403248512	-2.0752917378
H	0.0816989104	-0.0906734621	-2.21034727
H	-1.7916093245	0.8620528655	-3.2245344926
H	-2.0849840374	-2.907066357	7.5726603481
H	1.0156846241	3.7227888719	-2.5395933281

Compound **1f**

1f conf_1

energy (M062X/6-31g(d,p)) = -2585.2740608 Hartree

C	-0.8171053702	-0.58963739	0.8747542763
O	-0.0035782054	-0.1664790114	1.6675453894
C	-1.2688757267	0.1412757903	-0.3820186498
N	-0.9454283522	1.5581609015	-0.1707586496
C	-0.9985875918	2.4887111109	-1.1380015061
O	-1.1573960815	2.2366768018	-2.3386834002
C	-0.9133175059	3.9613704536	-0.7195336766
C	-0.1534740052	4.7969381482	-1.7555272635
C	1.3535703467	4.594969175	-1.6241885648
C	1.7864243792	4.8530078927	-0.185022904
N	1.0315956798	4.0613645208	0.79082557
N	-0.349978939	4.1803714652	0.6028631855
C	-1.1272128285	4.6753820373	1.6123639967
O	-2.3334285975	4.8312078023	1.482328863
C	-0.3890064356	5.1963594453	2.852657055
N	0.2055648334	4.1822966523	3.7251682884
N	0.9596325026	4.6695183707	4.7981881997
C	0.1489846629	5.5257800988	5.6573400557
C	-0.5821162615	6.6321982496	4.9061857153
C	-1.3100055565	6.0867796463	3.6854903835
C	-0.0743024593	2.8593823782	3.659923595
O	-0.8698354107	2.4034766808	2.8414030576
C	0.6996475891	1.9468135555	4.6155676355
C	2.1471756879	1.7816803417	4.1424473859
N	0.0290549297	0.6676332816	4.6746709781
C	-0.4219984933	0.1439253956	5.8260181793
O	-0.29490113	0.6737105962	6.9268727548
C	-0.9586918072	-2.045482535	6.9687604931
C	-1.1792776503	-1.1954913819	5.7234193307
N	-0.8306806981	-1.9794853332	4.5435083326
N	0.2326492716	-2.8468625375	4.5237569933
C	0.8396492443	-3.0860146107	5.6232651071
C	0.4853897308	-2.5501832816	6.9895131736
C	-1.5314095264	-1.8002154658	3.3752134843
O	-2.5022423403	-1.0648985092	3.324959782
C	-1.0046881917	-2.5253605377	2.142930924
O	-1.3925539134	-1.7902804151	0.9853322022
O	0.6590142409	-3.5441889414	7.9693560619
Cl	0.6225935464	7.9062845636	4.3917616683
C	-2.7733680595	-0.0368200029	-0.6070284031
C	-0.4509725492	-0.5028389927	-1.5518340652
O	-1.0406873771	-0.3650267259	-2.8087243418
O	-1.8484556804	-3.1456639123	7.0242477197
H	1.6675281697	-3.7870146444	5.5566297572
H	-0.8781210812	1.871589351	0.7973443485
H	-1.9514495903	4.3018381664	-0.6594547122
H	-0.5066480568	4.5277712063	-2.7520278325
H	-0.4025643045	5.8496155094	-1.5835110377

H	1.8878769495	5.2677496761	-2.3023898715
H	1.6424418429	5.9094973243	0.0679249237
H	2.8425488844	4.6168446832	-0.0311527126
H	1.2783530104	3.0767038671	0.7108467048
H	0.4516217289	5.7911633397	2.4780846538
H	1.7559761739	5.1831848359	4.4254535349
H	0.7977223221	5.9353467136	6.4337232601
H	-0.6037879088	4.8961368647	6.1438473914
H	-1.2706136572	7.1551704787	5.5702008485
H	-2.1641273992	5.4956670132	4.0315066427
H	-1.704452227	6.901574319	3.0757816312
H	0.6872960428	2.3644009868	5.6211001494
H	2.1768542187	1.3416281188	3.141887162
H	2.6595978037	2.7449357528	4.1188697218
H	2.680307459	1.1192511922	4.8284886425
H	-0.1548115311	0.2182781653	3.7858011
H	-1.156891728	-1.4420984423	7.8525937523
H	-2.2419447067	-0.9545219125	5.6352574042
H	1.1577473509	-1.7232225962	7.2424090413
H	-1.4772511498	-3.5030856695	2.0454110235
H	0.0755225958	-2.646933979	2.1787735915
H	-0.1624730125	-4.0644374597	7.9459015314
H	-3.0788563134	0.5527645985	-1.471743834
H	-3.0134054857	-1.0828808123	-0.8003999253
H	-3.3316915022	0.2996871608	0.2697492086
H	-0.3823313104	-1.5758974659	-1.3567489572
H	0.5654709813	-0.0855624291	-1.5118225029
H	-1.1387965978	0.604353656	-2.9232138387
H	-1.8816897358	-3.5692394236	6.1530505831
H	1.6216718634	3.5703960831	-1.9124897959

1f conf_2

energy (M062X/6-31g(d,p)) = -2585.2723297 Hartree

C	-1.1175475234	-0.2549225854	0.8801015401
O	-0.6514725351	0.3886497536	1.7941810866
C	-1.6392806029	0.3688167784	-0.4152915627
N	-1.5939295663	1.7993410527	-0.1629704975
C	-1.7240761097	2.7679805021	-1.0901951004
O	-2.1622339939	2.593494511	-2.2229644263
C	-1.2934010818	4.1679698044	-0.6078922024
C	-0.8033307021	5.0325198772	-1.7706161445
C	0.5691129076	4.5698885058	-2.255233505
C	1.538027836	4.4676512263	-1.0812902937
N	1.0231591473	3.6344220132	0.012344873
N	-0.2513664644	4.0685385583	0.4143523238
C	-0.461737057	4.5280952745	1.6783213062
O	-1.551685635	4.9907914328	2.0193969949
C	0.6944303502	4.4111270784	2.6756733419
N	0.1666519096	3.8909116068	3.9323562481
N	-0.6526365097	4.7175203114	4.7147586418
C	0.037255885	5.9677985181	5.0304055748
C	0.5009229044	6.6750507703	3.7602883069

C	1.3861895903	5.7624983924	2.9262523467
C	0.4424731547	2.6206011716	4.3289421588
O	1.2081390368	1.8918247194	3.7055187936
C	-0.2415281766	2.1109167379	5.5958705515
C	0.6185967948	2.4031834575	6.827402399
N	-0.4334121473	0.6851967692	5.3902241307
C	-1.3504657705	-0.0189454087	6.0696322138
O	-2.0462696448	0.4416734135	6.9714070067
C	-1.0762187957	-2.3847527856	6.882159794
C	-1.5092493299	-1.5038785391	5.7071626468
N	-0.8144713453	-1.9100012283	4.4932125158
N	0.4347410159	-2.4717023371	4.4886985764
C	1.0130072594	-2.6784035527	5.6084494329
C	0.4465012967	-2.3993992136	6.9783795942
C	-1.4596500798	-1.797161131	3.2843229637
O	-2.6065287989	-1.3940307259	3.2079203817
C	-0.6516783941	-2.1954399742	2.0542521363
O	-1.2068882585	-1.5841468607	0.8894349157
O	0.8889329851	-3.3553581193	7.9087527518
C1	1.408667052	8.1802501084	4.2008646827
C	-3.0528587773	-0.1211305087	-0.7357258991
C	-0.6648189718	-0.0060248875	-1.5432125366
O	0.6102456232	0.5016029707	-1.1948398079
O	-1.447262102	-3.7341284898	6.677943278
H	2.0009821228	-3.1278055541	5.5542479738
H	-1.1697281819	2.0427672174	0.7237429626
H	-2.1560171964	4.6326199975	-0.1234991434
H	-0.749201547	6.0696886361	-1.4227322258
H	-1.5404951208	4.9860384243	-2.5743429825
H	0.9616981149	5.2636187167	-3.0053060013
H	1.7464316266	5.4607342718	-0.669077896
H	2.492094498	4.0286903175	-1.3848135558
H	0.9322287125	2.6659474664	-0.303875601
H	1.4227662468	3.6939301126	2.3066807437
H	-1.4740444186	4.9205765355	4.1450993006
H	0.8973275673	5.7414332538	5.6677348506
H	-0.6562165024	6.5946618022	5.5949997602
H	-0.3608432888	7.0164578923	3.1855084145
H	1.6478299932	6.2336146534	1.9753140979
H	2.315740846	5.56705381	3.4703190839
H	-1.2172248875	2.5810706398	5.7187413131
H	0.7136940003	3.4807068175	6.981283019
H	0.1451739559	1.9667068777	7.7090399133
H	1.6161516069	1.9720964459	6.708352072
H	0.0934528938	0.2739746519	4.6290735736
H	-1.5122223643	-1.9819471239	7.7997404375
H	-2.5762879396	-1.650570329	5.5293407483
H	0.8036668701	-1.4231343712	7.3248018563
H	-0.7238198999	-3.2700494137	1.884465929
H	0.3955565315	-1.9199595822	2.1600707349
H	0.3208659008	-4.129715951	7.7580204008
H	-3.416728134	0.4008163884	-1.6218182476
H	-3.055498412	-1.1963491995	-0.9239406429
H	-3.7254239156	0.0908363375	0.0983945652

H	-1.0326715916	0.4321998647	-2.4756270929
H	-0.64871067	-1.0971630199	-1.6441439505
H	1.216238688	0.3134200927	-1.9231539715
H	-2.3579168687	-3.8556700571	6.9772509732
H	0.4780943884	3.5898144092	-2.7386429453

1f conf_3

energy (M062X/6-31g(d,p)) = -2585.2709199 Hartree

C	-1.0699215124	-0.8302985254	0.4559695715
O	-1.4967587929	-1.9483811598	0.6189754319
C	-1.6426956612	0.122477401	-0.5914966704
N	-1.1743306845	1.486498442	-0.3165218986
C	-1.370876213	2.5474527373	-1.1180352921
O	-1.8064044007	2.4808764333	-2.2712386657
C	-1.077864193	3.929404671	-0.5200388993
C	-0.6059741864	4.9200580208	-1.5872173109
C	0.8440891325	4.6522537512	-1.9788543426
C	1.7198511585	4.6244881603	-0.7319119667
N	1.2355482538	3.6884212659	0.2897630518
N	-0.1230846103	3.8868679774	0.5850387157
C	-0.4906877721	4.3386358265	1.8211798394
O	-1.6598879342	4.6170504866	2.0810095309
C	0.6059531623	4.4685894079	2.8780174192
N	0.0957457574	3.9788500032	4.1524635584
N	-0.8584122638	4.7356860908	4.8467777547
C	-0.3709714713	6.0935143158	5.0769906306
C	0.0371193655	6.7588999608	3.7660219494
C	1.0819299778	5.9232405555	3.0429852999
C	0.4326319504	2.7418530876	4.5871490292
O	1.2083139065	2.0226280226	3.9584229033
C	-0.1703602289	2.2559402873	5.9102365806
C	0.5799520775	2.836238877	7.1097091827
N	-0.06920026	0.8126152765	5.8449228612
C	-1.0581822271	-0.0282339866	6.1688578298
O	-2.0246294205	0.2534228303	6.8811170676
C	-0.2698670368	-2.2218843891	6.9359774329
C	-0.8758360927	-1.4795994319	5.7337510918
N	-0.0469087203	-1.6312773766	4.5424543587
N	0.9201360644	-2.5892124226	4.3948194862
C	1.0364195005	-3.4918936825	5.2904205385
C	0.1645332863	-3.6143549424	6.5112778699
C	-0.4378822225	-0.9810107503	3.392811867
O	-1.436905954	-0.2860500013	3.3703743463
C	0.4695333304	-1.1479829248	2.1818236218
O	-0.0277263565	-0.3256557303	1.1322266789
O	-0.966702419	-4.3942153949	6.1735954476
Cl	0.6956961277	8.4111030178	4.1030599859
C	-3.1705222009	0.0537603909	-0.5055271038
C	-1.1433734311	-0.4176648878	-1.9698071865
O	-1.9504383304	-0.0633107027	-3.0529785993
O	-1.2461423997	-2.357976906	7.9401393835
H	1.8199303785	-4.2217168225	5.113680843

H	-0.8669422987	1.6737582809	0.629151101
H	-2.0220917991	4.270691138	-0.0852865915
H	-0.700309775	5.9293872598	-1.1724826491
H	-1.271282179	4.8488317719	-2.4488555191
H	1.2008273982	5.4239780996	-2.6678254281
H	1.7594065003	5.6191613741	-0.2753758318
H	2.7457440648	4.3265811663	-0.9622087318
H	1.3413576309	2.7301956862	-0.0376374842
H	1.4504614669	3.8429913363	2.60277912
H	-1.6842093433	4.7681631836	4.2486069002
H	0.4858244378	6.0486154629	5.7559456901
H	-1.1712368206	6.6523595875	5.5664559363
H	-0.8400391775	6.9200632666	3.1374008773
H	1.3199433393	6.3548718135	2.0679105674
H	2.0027430351	5.9081914152	3.634612146
H	-1.2239021563	2.5307095782	5.9705230238
H	0.470877949	3.922083203	7.1435794807
H	0.1687860326	2.4158577481	8.0303246586
H	1.6432358155	2.5872338352	7.0572827649
H	0.6516270417	0.4926641184	5.2069545225
H	0.6075737012	-1.6726240046	7.3035136554
H	-1.8725795461	-1.8878946711	5.5462225001
H	0.7349097484	-4.0809948053	7.3246368244
H	0.5201829336	-2.1887429242	1.8642219533
H	1.4734270939	-0.7878478713	2.4040890184
H	-1.6046597681	-4.2248570609	6.8874044803
H	-3.6082324126	0.7120448178	-1.2557428307
H	-3.5107753189	-0.9656437304	-0.6915544285
H	-3.5082869057	0.3656409958	0.4857384018
H	-1.1570496426	-1.508492063	-1.9131516684
H	-0.100125944	-0.0944864809	-2.0980164588
H	-1.983375151	0.9160353228	-3.0317865444
H	-1.7670668153	-1.5333553359	7.9536767493
H	0.919400431	3.6927212264	-2.5054994292

1f conf_4

energy (M062X/6-31g(d,p)) = -2585.2680866 Hartree

C	-1.2821566017	-0.0324729344	0.7712020322
O	-0.813075758	0.7086599111	1.5998661092
C	-2.1444026762	0.4099674268	-0.4138430866
N	-1.9363930572	1.8351422573	-0.6382058455
C	-0.7079648446	2.3851021167	-0.8117082932
O	0.2990381514	1.7171776286	-1.0371133958
C	-0.6455649263	3.9068755858	-0.6687194696
C	-0.135550121	4.6348609021	-1.9187271229
C	1.3708050457	4.4897777825	-2.1206851648
C	2.1022172168	4.8174185786	-0.82307506
N	1.6206478245	4.0140327314	0.3056016045
N	0.2365453729	4.1853148748	0.4704793354
C	-0.2872426579	4.3468169824	1.7122656283
O	-1.5036535088	4.3843013638	1.9019081225
C	0.705201848	4.4958918725	2.8712981917

N	0.0994324842	3.9631397788	4.0834710429
N	-0.9386015909	4.6826737121	4.694994164
C	-0.5121822942	6.0468797156	4.9932685246
C	-0.007749705	6.7462183077	3.7339999848
C	1.1271658134	5.9565499668	3.1025989448
C	0.3772644979	2.6953987557	4.4785882925
O	1.2163426595	2.0037153933	3.9062846105
C	-0.3718755251	2.1428980313	5.6896624478
C	0.3579179218	2.5138212875	6.9827812144
N	-0.4305705934	0.7076913793	5.4793724611
C	-1.3325875345	-0.079751732	6.0818551562
O	-2.112874305	0.2956948282	6.9515849603
C	-0.8361809903	-2.4639816071	6.7576380234
C	-1.3619823385	-1.5555225964	5.6494048364
N	-0.6487726176	-1.8301767997	4.4064634788
N	0.652529164	-2.2605068868	4.3551938912
C	1.2643068026	-2.4838366859	5.4557034177
C	0.6881307992	-2.3536754866	6.8447383865
C	-1.2961000153	-1.6392224063	3.2054771407
O	-2.4661489539	-1.3078914294	3.1639569182
C	-0.4552441886	-1.8573303094	1.9533047115
O	-1.1567465107	-1.3684724994	0.8168234623
O	1.2153522184	-3.337272557	7.6988200622
C1	0.5544584961	8.4174492341	4.1451749882
C	-3.6115773254	0.2023807452	-0.02238201
C	-1.8254931004	-0.3879567056	-1.6969350429
O	-2.6296734181	0.0328191164	-2.7743832372
O	-1.1979948402	-3.81849135	6.5593718839
H	2.2895453591	-2.8315004724	5.3624685009
H	-2.6671740135	2.4482062015	-0.3063415998
H	-1.6258417121	4.2975010379	-0.3959077115
H	-0.6905093436	4.2774234526	-2.7913602327
H	-0.3832183144	5.6950283742	-1.7939263373
H	1.7032740508	5.1607301748	-2.9190228332
H	1.970907304	5.8719964338	-0.558051112
H	3.175027197	4.625930514	-0.9094757507
H	1.7603887154	3.0269315365	0.0828965453
H	1.5904181653	3.9015966673	2.661049574
H	-1.7013857253	4.7019980397	4.0172351409
H	0.2818423281	6.011467234	5.7451393837
H	-1.3682141839	6.5757088963	5.417545913
H	-0.8298160051	6.8847608845	3.028917272
H	1.4427376936	6.404615546	2.1576480917
H	1.9864044113	5.958433087	3.7806615291
H	-1.388417067	2.5351702211	5.7241567602
H	1.3927591854	2.1628003553	6.951902305
H	0.354450142	3.5969832128	7.1259382389
H	-0.1503620757	2.048062392	7.8292129261
H	0.1876736071	0.3545789198	4.7587848803
H	-1.292982179	-2.1654291774	7.7014572186
H	-2.4137859789	-1.7886983285	5.476742381
H	0.9703977476	-1.3794387126	7.2604352417
H	-0.2999976187	-2.9218279419	1.775559732
H	0.5137763361	-1.3686573245	2.0461249333

H	0.6839060212	-4.1328148901	7.5243815711
H	-3.8730523893	0.8011595976	0.8542112892
H	-4.2482940143	0.4879292102	-0.8620728914
H	-3.7886541151	-0.8480288403	0.2132137204
H	-2.0548853579	-1.4400660725	-1.5246407107
H	-0.7601097765	-0.294389082	-1.92759198
H	-2.4242560877	0.9650497856	-2.9337980516
H	-1.0064902597	-4.0664325431	5.6421759052
H	1.6149416361	3.4681133307	-2.4270461426

1f conf_5

energy (M062X/6-31g(d,p)) = -2585.2669265 Hartree

C	-1.9528812233	-0.1342503513	1.2417315816
O	-2.6018050228	0.6754353648	1.8654746811
C	-1.1343060189	0.1946256041	-0.0067929335
N	-1.2608898287	1.645112057	-0.1490676446
C	-0.5761916037	2.4311126962	-0.9936345691
O	0.2613879654	2.028096682	-1.8110445937
C	-0.8422415976	3.9289283224	-0.8017624627
C	-0.6080096134	4.7848354414	-2.0476582839
C	0.8689564667	5.0508670175	-2.337290934
C	1.5829775569	5.5016588092	-1.0688140463
N	1.3992120618	4.5552361558	0.0368149279
N	0.0334961758	4.3665708689	0.2938792625
C	-0.4057824906	4.3172395423	1.5764061477
O	-1.5742630916	4.0444031258	1.8524243522
C	0.6330432655	4.5676201563	2.6746895262
N	0.1355245191	4.0190209561	3.9271987231
N	-0.8487711272	4.7271217148	4.6364443036
C	-0.4295067228	6.096620797	4.9008448313
C	-0.0723848257	6.8055183079	3.5992571698
C	1.0190212449	6.0430755386	2.8679704639
C	0.253703587	2.6820155488	4.1444679575
O	0.8114562053	1.9438495263	3.3359260441
C	-0.2421641716	2.137955581	5.4824554548
C	0.7792475955	2.4965763304	6.5681052681
N	-0.3897267189	0.7076329562	5.2934074539
C	-0.8419340471	-0.13942364	6.2227844056
O	-1.1208063799	0.1687845145	7.3852191948
C	0.5321734499	-2.1681044515	6.2554788766
C	-0.8455017547	-1.6203264965	5.8542422439
N	-1.137914514	-1.890019647	4.4491577094
N	-0.5234009055	-2.8770914108	3.72231795
C	0.3160056724	-3.6447585204	4.3019128273
C	0.6812029818	-3.596779094	5.7609816911
C	-2.3674546426	-1.4622495135	3.9870442423
O	-3.1095290453	-0.8235788629	4.7110309111
C	-2.7856227496	-1.8683764013	2.5791141164
O	-1.9000813858	-1.4330983803	1.5429735228
O	-0.2008254357	-4.4496131573	6.4655741382
Cl	0.4796709702	8.4929931204	3.946653381
C	-1.7648883834	-0.5280098108	-1.2056217653

C	0.3379961607	-0.2617214147	0.2043218118
O	1.0541641472	-0.4161923463	-0.9893794124
O	0.6397437575	-2.1861689902	7.6599996848
H	0.7615873145	-4.4035746777	3.6662129622
H	-1.8611202064	2.0913783305	0.5397448292
H	-1.8635124759	4.0685302802	-0.44617951
H	-1.094012347	4.3056020378	-2.9018355499
H	-1.1196846963	5.7387940494	-1.8797582353
H	0.960072801	5.8199241438	-3.1107919983
H	1.2070429497	6.4734214367	-0.7315761648
H	2.6604005727	5.5962240167	-1.2266433296
H	1.7948310634	3.6530920079	-0.2312753084
H	1.5333720478	4.0143860374	2.4128846572
H	-1.6849195756	4.7230842804	4.0509732673
H	0.4370170986	6.078160957	5.5682835544
H	-1.2518851272	6.6012205974	5.4119048062
H	-0.9637452806	6.9176845585	2.9773340657
H	1.2362167693	6.4909726831	1.8972490323
H	1.9350771248	6.0763770146	3.4658647698
H	-1.2087158805	2.5755463546	5.7373297805
H	1.7683537735	2.1139071901	6.3021125635
H	0.8372021682	3.5810789041	6.6817302482
H	0.4709134335	2.0565143568	7.5166915152
H	-0.0984395864	0.3616300904	4.3860317231
H	1.3210314138	-1.5511438372	5.8043775028
H	-1.6019817171	-2.0981325399	6.4827600102
H	1.7229120207	-3.9183967721	5.8895240007
H	-3.7766942026	-1.4453686151	2.4199778364
H	-2.8142311405	-2.9527905519	2.4891268294
H	-0.1153625818	-4.174031596	7.3943872682
H	-2.8188917996	-0.2574534798	-1.3035280294
H	-1.2394369938	-0.239200189	-2.1158100013
H	-1.681182767	-1.6092205812	-1.0836351439
H	0.3243227014	-1.2383728895	0.6914121314
H	0.8138848163	0.4537431856	0.8903060892
H	0.9707114943	0.4402908035	-1.4573115031
H	0.156465939	-1.4140491142	8.0066486561
H	1.3453003924	4.1430272802	-2.717761536

1f conf_6

energy (M062X/6-31g(d,p)) = -2585.2662571 Hartree

C	-1.1031531379	-0.4092640168	0.7952948385
O	-0.4050813011	0.141123095	1.6208163302
C	-1.7465024959	0.3087257951	-0.3901208475
N	-1.290293582	1.6874502437	-0.2410522084
C	-1.2846114257	2.6696607572	-1.1457335721
O	-1.7040843234	2.5819640952	-2.306883527
C	-0.7616329471	4.0236073478	-0.6552237326
C	0.1553814774	4.7049702883	-1.6839423261
C	1.5559135845	4.087626014	-1.7086819872
C	2.1272905142	3.962729453	-0.2979854288
N	1.1525477752	3.2289421546	0.5005728862

N	-0.0518694367	3.9443426237	0.6146650722
C	-0.3754801652	4.7872683753	1.6376296679
O	-1.4488712925	5.390917018	1.6675923912
C	0.5932650058	4.8940957111	2.8155917561
N	0.0313435675	4.1634149485	3.9534464559
N	-1.0351651118	4.7346230782	4.6585982601
C	-0.697596985	6.0701222712	5.1429702958
C	-0.2873860387	6.9720893956	3.9865755149
C	0.8673688285	6.3541090239	3.2159739986
C	0.382410248	2.8669872705	4.1677252948
O	1.1563538363	2.2748626787	3.4159457435
C	-0.1449346804	2.2001186722	5.428003855
C	0.8535700458	2.4391271728	6.5671631038
N	-0.3270027102	0.7843352575	5.1567920467
C	-1.113167829	0.045917979	5.9574680747
O	-1.6941731869	0.4962258341	6.9413211945
C	-0.7578598363	-2.2911639675	6.8073510538
C	-1.2871354469	-1.4474285617	5.6487385754
N	-0.6999492532	-1.9080697855	4.3956706603
N	0.5437640595	-2.4818019879	4.3060069707
C	1.2199930752	-2.6428664326	5.3787516026
C	0.771393536	-2.308134324	6.7801821686
C	-1.4535133365	-1.8241477015	3.2465074971
O	-2.5699829994	-1.338169115	3.2597013372
C	-0.829015852	-2.3751583945	1.9714908949
O	-1.4001178953	-1.7067349391	0.8463342644
O	1.2822011386	-3.2370235584	7.7028778699
Cl	0.2045463898	8.5944542147	4.6249441708
C	-3.272772743	0.2183732783	-0.2669892395
C	-1.2621760773	-0.3544965953	-1.7098763548
O	-2.0449902613	-0.023168483	-2.8203791771
O	-1.2444785695	-3.6197922882	6.7722552273
H	2.195979115	-3.1041606435	5.2543970133
H	-0.8100663059	1.8693209593	0.6330552139
H	-1.6432625268	4.644959737	-0.4805857431
H	0.2235357278	5.7628571941	-1.4075324535
H	-0.3154844986	4.6498466936	-2.6675495674
H	2.2182162711	4.6963750454	-2.3312761081
H	2.3452030083	4.958285564	0.1221262262
H	3.0539404401	3.383561325	-0.3008552829
H	1.4521242635	2.9063412396	1.4169830735
H	1.5509189536	4.4320361806	2.5906336818
H	-1.8263936771	4.7947718639	4.0178856013
H	0.119114582	5.9821685982	5.8652876341
H	-1.5752916504	6.4645535262	5.6589255679
H	-1.136281758	7.1590327482	3.3305937061
H	1.0979126175	6.9393546099	2.3224413136
H	1.7572401036	6.3553322095	3.8531920629
H	-1.1095717312	2.6232480015	5.7036590142
H	0.4988976838	1.9301687217	7.4650297954
H	1.8391130637	2.0500151162	6.2988305342
H	0.9420588559	3.5064415503	6.7849055484
H	0.1318854602	0.394249797	4.3430424536
H	-1.1183547861	-1.8617390703	7.741472418

H	-2.3648436269	-1.6042315219	5.5726297745
H	1.1635602083	-1.3238298441	7.0615057123
H	-1.092447686	-3.4267986185	1.8543218387
H	0.2529451623	-2.2686957487	1.9691234751
H	0.6786081026	-3.9979294194	7.6557535674
H	-3.6017504064	-0.8190311501	-0.3518451926
H	-3.6044201169	0.6206438438	0.6928320121
H	-3.7286540185	0.7944085382	-1.0728136597
H	-1.328375251	-1.4370001927	-1.583854276
H	-0.2033715554	-0.0926910287	-1.8518327544
H	-2.0065711489	0.9568307333	-2.8758274242
H	-1.1308707505	-3.9761117688	5.8782283124
H	1.5134137134	3.0876513142	-2.1549737614

1f conf_7

energy (M062X/6-31g(d,p)) = -2585.2658575 Hartree

C	-2.2536625115	-0.03650844	1.2845224327
O	-2.8682700011	0.8590662145	1.8174927852
C	-1.3385295102	0.1314954718	0.0715008599
N	-1.2165464593	1.5761597696	-0.1117428322
C	-0.3524121505	2.1931409644	-0.9281570818
O	0.4374429332	1.6156116607	-1.6868076362
C	-0.408840715	3.7286266714	-0.8607149788
C	0.3838754696	4.4069034595	-1.9785431371
C	1.8898386047	4.3946082287	-1.7234411036
C	2.186753708	4.9229260148	-0.3247118395
N	1.4352955236	4.2191082356	0.7145154976
N	0.0657293185	4.2135956842	0.4385151912
C	-0.8079174816	4.3824647621	1.4657712115
O	-2.0031261285	4.1239104019	1.3449677172
C	-0.2611653389	5.1043517238	2.7036568218
N	0.1608117606	4.2184847398	3.7982329627
N	0.5890008755	4.8468103425	4.9731591894
C	-0.4402030718	5.7152761553	5.525257583
C	-0.9647356072	6.7299101799	4.5194278559
C	-1.3553264343	6.0432748959	3.2225649663
C	0.2530516461	2.8697216697	3.7132003641
O	-0.000045883	2.2525228424	2.6803993363
C	0.7008791169	2.118494803	4.9640859915
C	2.2262308648	1.9929164707	4.9962101807
N	0.0516164736	0.8219228057	4.920937085
C	-0.2743947091	0.1625858152	6.042229056
O	0.0039348767	0.5524069048	7.1736338083
C	-0.2081218536	-2.3018419986	6.5061675935
C	-1.0307879378	-1.1638971599	5.8965846514
N	-1.4491691744	-1.5043330851	4.5390885141
N	-0.7768437777	-2.396601025	3.7425764124
C	0.3012807023	-2.9165773067	4.1856672663
C	0.9097866824	-2.7006516983	5.5481136503
C	-2.7082322687	-1.1215141681	4.1267935505
O	-3.435926841	-0.4631595231	4.8495513429
C	-3.1913332203	-1.6036056059	2.760879668

O	-2.3213061543	-1.3132197695	1.6674121811
O	1.5697897631	-3.859698472	5.9908807476
Cl	0.3225016533	7.9867994867	4.2049310015
C	-2.0360378594	-0.5128037594	-1.1370334385
C	0.030439593	-0.5556785876	0.3508053414
O	0.7405943732	-0.8949687132	-0.8087614187
O	-0.9863896583	-3.4713707869	6.6738254904
H	0.7946385945	-3.6195622606	3.5195003225
H	-1.774200547	2.1549598218	0.5155063715
H	-1.4589370153	4.0231265663	-0.9187837738
H	0.0339854231	5.4431375638	-2.0436489809
H	0.1449417374	3.9201508309	-2.9269388045
H	2.4008446829	5.0092671335	-2.4715036913
H	1.9271727162	5.9848070089	-0.2506033558
H	3.2455047457	4.8214008101	-0.0723305312
H	1.747253364	3.2522710451	0.7982116877
H	0.6192754493	5.6746461576	2.3965287162
H	1.4291574827	5.3839424109	4.7635010482
H	-0.026596093	6.2054103631	6.4084024807
H	-1.279070256	5.0883301533	5.8452767807
H	-1.8047394528	7.2890355122	4.9317691487
H	-2.2587115222	5.4545647055	3.4096485414
H	-1.5998586402	6.7807821773	2.4545995441
H	0.3636321256	2.6337418338	5.862078007
H	2.6923249814	2.978471093	5.0668762306
H	2.5208869998	1.4061617835	5.8690784719
H	2.5898453182	1.4925776926	4.0946467157
H	-0.2145426525	0.4742187964	4.0093791245
H	0.2068522903	-1.9552014278	7.4553857327
H	-1.9426626349	-1.0402266928	6.4847840611
H	1.6585354808	-1.9022335242	5.4972194647
H	-4.1627790289	-1.1381066074	2.599572351
H	-3.2878334561	-2.6888943974	2.7645094289
H	0.8599941341	-4.4430422018	6.3085231642
H	-2.1420365185	-1.5891222265	-0.9881790624
H	-3.0246465208	-0.0715067534	-1.2854210868
H	-1.4353087839	-0.3436775981	-2.0306278573
H	-0.1581415496	-1.485865717	0.8876022873
H	0.6018093678	0.1101606885	1.0128442879
H	0.8262145044	-0.0555567497	-1.307094532
H	-1.4430884019	-3.4215972663	7.5238793118
H	2.2717544844	3.3737629998	-1.818836446

1f conf_8

energy (M062X/6-31g(d,p)) = -2585.2658099 Hartree

C	-0.9771447027	-0.2946825477	0.7957417791
O	-0.0846197218	0.2100376959	1.4403188291
C	-1.6924941255	0.4041735402	-0.3597792945
N	-1.1891459332	1.7747384298	-0.2925472736
C	-1.254507486	2.7429969596	-1.2143774804
O	-1.7058894859	2.6135878679	-2.3568634772
C	-0.7556938265	4.1220548697	-0.7507228755

C	-0.0253821176	4.8744068936	-1.8658694453
C	1.3993795313	4.3580016756	-2.047385232
C	2.1266029094	4.3638067504	-0.7071730844
N	1.4086738421	3.6157988089	0.3295462285
N	0.076753858	4.0436576805	0.4487933616
C	-0.3786788371	4.5373369633	1.6381706077
O	-1.5154808562	4.996515165	1.7419671292
C	0.561164371	4.4605057676	2.8443094656
N	-0.2054159051	4.0316621301	4.0069604364
N	-1.1341809073	4.9225531769	4.5639732835
C	-0.4850534438	6.1811925509	4.9261860342
C	0.2324031909	6.7944304886	3.7270250978
C	1.2342900832	5.813426724	3.1389682005
C	-0.0673847977	2.7684003444	4.510681674
O	0.7493142356	1.9794483885	4.0568207435
C	-1.0102829592	2.3909168583	5.6651450691
C	-0.4916799127	2.9010945247	7.0092028715
N	-1.2695951017	0.9617642721	5.6394713229
C	-0.4968535378	-0.0178882856	6.150113832
O	0.5126973639	0.1359252279	6.8272581786
C	-0.6941556285	-2.4344748418	6.9437827174
C	-1.0615307753	-1.4284941521	5.8580692883
N	-0.6150376807	-1.9312380174	4.5503658385
N	0.445853675	-2.782306465	4.3777198616
C	1.080812221	-3.1896957768	5.4091691492
C	0.7742426706	-2.84444446384	6.8404650586
C	-1.2969762855	-1.5628949691	3.4229337209
O	-2.2425594213	-0.7886803696	3.469134493
C	-0.8251293735	-2.1919351297	2.1173972463
O	-1.4393645935	-1.5259872073	1.0180129342
O	1.0546145722	-3.9299700662	7.6910177894
Cl	1.080768417	8.3120663347	4.2372677403
C	-3.2094608282	0.3684564351	-0.1493807739
C	-1.3002748968	-0.3180151044	-1.6797260055
O	-2.1341739156	-0.0069884913	-2.757478054
O	-1.5115517281	-3.592832366	6.8783942616
H	1.9058390121	-3.8694822612	5.213060724
H	-0.7822980316	2.0196183027	0.6014843693
H	-1.6520964985	4.6747352054	-0.4561402753
H	-0.6059551223	4.7764993533	-2.7849293805
H	-0.0025744473	5.9356947324	-1.5969944464
H	1.9377003011	4.9790586484	-2.769808952
H	2.2536997707	5.3899041544	-0.3459942225
H	3.119320505	3.9131365458	-0.7830557232
H	1.3987733176	2.6242778097	0.0949241796
H	1.325522502	3.7092438533	2.6649083513
H	-1.8301940576	5.0977567945	3.8393978332
H	0.2318152064	5.9866283349	5.729710254
H	-1.2559447214	6.8555023521	5.3055219033
H	-0.4935059089	7.1100377376	2.9762611608
H	1.6894149912	6.2150166413	2.230034521
H	2.0342093673	5.6367658616	3.8649352363
H	-1.9728123343	2.8702934436	5.4808069946
H	0.5242125483	2.5612827336	7.2040602317

H	-0.5191786237	3.9921558219	7.0085387179
H	-1.1388966812	2.5409050254	7.8128369947
H	-1.9676459137	0.6504617933	4.972353949
H	-0.8854633847	-1.9916304926	7.9217679007
H	-2.1512001699	-1.3728173182	5.8066911603
H	1.3975062419	-2.0005397874	7.1491555036
H	-1.1532737283	-3.2299230871	2.058300433
H	0.2590432694	-2.1552764202	2.032850226
H	0.2767844905	-4.5094130814	7.6265362348
H	-3.4734055365	0.8050435772	0.8164475448
H	-3.6940282005	0.9373063883	-0.9435908937
H	-3.5749652013	-0.659187343	-0.1857963414
H	-1.3894211253	-1.3929433936	-1.5075348622
H	-0.2439875569	-0.0933834924	-1.8876962851
H	-2.07121044	0.9672040511	-2.8586423343
H	-1.533710358	-3.9119584627	5.9635959067
H	1.3830543621	3.337597882	-2.4510778617

1f conf_9

energy (M062X/6-31g(d,p)) = -2585.2647703 Hartree

C	-1.5750688615	-1.0678248446	0.3761106119
O	-2.2715822031	-1.9975940881	0.705546398
C	-1.8143333142	-0.1939608777	-0.8643450803
N	-1.7869040349	1.2210713661	-0.4792634427
C	-0.8780778726	2.1797643951	-0.7340195916
O	0.1895253103	2.0023589589	-1.3341445702
C	-1.2596107004	3.5776137135	-0.238121366
C	-1.4605177722	4.5711995397	-1.3930389355
C	-0.1414310151	5.0218998953	-2.0179878051
C	0.838064601	5.458031881	-0.9312842344
N	1.0318304572	4.4338403717	0.1032349859
N	-0.2052251927	4.062101207	0.6509324115
C	-0.4014536483	4.1038148269	1.9911250316
O	-1.4752449019	3.7875352086	2.5020268921
C	0.7937232366	4.524387342	2.8615578614
N	0.533937645	4.0702031197	4.2220476582
N	-0.4177092127	4.7687793145	4.9854467091
C	-0.0696372246	6.1796247371	5.0819118855
C	0.0652719527	6.7913789425	3.6915743985
C	1.0954050417	6.0309011243	2.8734552879
C	0.7823258373	2.770017327	4.5283589692
O	1.4146307788	2.0374139734	3.7712964175
C	0.2730211661	2.2406017178	5.8689530436
C	1.2301460914	2.611764256	7.0025974661
N	0.1496056128	0.8080128961	5.6912188953
C	-0.8735158415	0.0974589348	6.1727784674
O	-1.676697237	0.5114750473	7.0163621361
C	-0.3668620361	-2.1565173277	6.957923695
C	-0.9627554158	-1.3704430074	5.7748126561
N	-0.2953640137	-1.7059343492	4.5220342226
N	0.4724897859	-2.8267901007	4.3425812148
C	0.5327551232	-3.697862247	5.2735974987

C	-0.2101060867	-3.6187901067	6.5788680443
C	-0.7247513868	-1.0890727705	3.3632498232
O	-1.5792382924	-0.2240759408	3.3858499417
C	-0.0427619554	-1.5508615105	2.0843540294
O	-0.4405207235	-0.7214084433	1.0016501581
O	-1.4818190514	-4.2139617482	6.405034663
Cl	0.5457211666	8.5311836189	3.8263373414
C	-3.1885979166	-0.4897351717	-1.455401636
C	-0.7081553353	-0.5788646869	-1.8817262762
O	-0.7741864627	0.1626594582	-3.0675561006
O	-1.2433511529	-2.0866540124	8.055287354
H	1.1595813751	-4.5584068533	5.0623742334
H	-2.610999842	1.5195202528	0.0241435338
H	-2.1634233712	3.5334648816	0.3691621451
H	-1.9822363972	5.4399799429	-0.9761008001
H	-2.1233783633	4.127794582	-2.1422907061
H	-0.3254691399	5.8525373066	-2.7066928462
H	0.4793006233	6.3656066507	-0.4333272036
H	1.8249869119	5.6752117269	-1.3480960771
H	1.4121082909	3.5951347496	-0.3359694263
H	1.6766866665	3.9997680711	2.5007247861
H	-1.3101744852	4.6575379352	4.5015060432
H	0.8736576981	6.2736006193	5.6278639757
H	-0.8546623453	6.6769587043	5.6553123166
H	-0.9065510535	6.8019229942	3.1924256653
H	1.1433456378	6.4044763364	1.8500882463
H	2.0814144125	6.1704041093	3.3278118503
H	-0.7156699524	2.6432546218	6.0858581347
H	0.8710437445	2.1759262365	7.9376041819
H	2.2349183109	2.2310857854	6.8007530019
H	1.2789418083	3.6969298913	7.1182142944
H	0.7358575305	0.420380709	4.9609496907
H	0.6215729551	-1.7462300762	7.2072587892
H	-2.0256732779	-1.6177755183	5.703412678
H	0.3616608086	-4.1361744721	7.3601257513
H	-0.2850227398	-2.593706491	1.8765407093
H	1.038749439	-1.4481160786	2.1684304611
H	-2.0049442663	-3.8983512183	7.1616280702
H	-3.2893953816	-1.5559471723	-1.6644062649
H	-3.9894398823	-0.2037642704	-0.7679103771
H	-3.2988323788	0.0696149318	-2.3859003601
H	-0.8749222975	-1.630505903	-2.1340882079
H	0.2719063213	-0.4910781007	-1.4073266931
H	-0.3218015326	0.9969436838	-2.8458063754
H	-1.6180042895	-1.1836459987	8.0634615249
H	0.2998935176	4.2069054904	-2.5989618761

Compound **1g**

1g conf_1

energy (M062X/6-31g(d,p)) = -2585.2752616 Hartree

C	-0.4563100162	-3.3410385142	-0.0775140261
O	-0.6217558204	-2.3844183701	0.6421967759
C	0.8866228414	-3.8188171901	-0.6202183654
N	1.7979429372	-2.681480708	-0.4636282014
C	3.1349314249	-2.7454066636	-0.3491472567
O	3.7963869215	-3.7796279699	-0.2377866311
C	3.8970764398	-1.4135060034	-0.3665748882
C	5.0151339555	-1.4231465912	0.6816442824
C	4.4427601097	-1.2132512475	2.0812455604
C	3.5861257555	0.0494318237	2.1085203864
N	2.5487142414	0.0688686661	1.0751727792
N	3.0692993793	-0.2310197064	-0.1880363396
C	2.8873629058	0.6482620744	-1.2210975179
O	3.2863425411	0.4150767415	-2.348352988
C	2.3451770619	2.0364457754	-0.8461488386
N	0.9109801014	2.1406867478	-0.5716722675
N	0.4641985272	3.406478356	-0.1768549395
C	0.7455673725	4.4004668882	-1.2040096162
C	2.2093811669	4.4292211846	-1.6286391852
C	2.7103690102	3.0292015402	-1.9505553087
C	0.0080591027	1.1366605496	-0.7165818062
O	0.3196143323	0.0330456365	-1.1501257208
C	-1.4164914682	1.4384594484	-0.25961385
C	-1.5016211601	1.3530899977	1.2698839252
N	-2.2852456558	0.4594391813	-0.8805080904
C	-3.6061705776	0.647292806	-0.9245979027
O	-4.1291243298	1.7155913859	-0.5834133907
C	-5.9721613511	-0.1591003917	-1.3607966733
C	-4.4777014572	-0.5277084711	-1.4503786468
N	-4.1904532786	-1.7984216278	-0.7586015315
N	-5.0981430792	-2.4704426074	0.0445694562
C	-6.3285095784	-2.2844427463	-0.2299805833
C	-6.8333962201	-1.4173835722	-1.3536365396
C	-3.0420620035	-2.4764950501	-1.031096099
O	-2.2644571669	-2.1063655466	-1.9007438361
C	-2.7590031212	-3.705538214	-0.173680559
O	-1.4506236922	-4.1605945861	-0.4637319737
O	-8.186857362	-1.0961092831	-1.2003472057
Cl	3.1980469965	5.1575757692	-0.2847464094
C	0.7807937432	-4.212818905	-2.0952957265
C	1.2762779256	-5.0588884355	0.2488689873
O	2.2156846473	-5.9017686194	-0.330974109
O	-6.339589029	0.4831671182	-0.1655291271
H	-7.050611653	-2.8044311298	0.3941191456
H	1.3909809522	-1.769987132	-0.6633633667
H	4.3222618254	-1.3289407926	-1.370700005
H	5.715636862	-0.6151115998	0.4414390656
H	5.5509725624	-2.3706714659	0.6089468547

H	5.2492865343	-1.1349515569	2.8178488106
H	4.218512898	0.932253797	1.9551712097
H	3.0773327141	0.174304902	3.068963506
H	1.821162374	-0.6140254154	1.2843845912
H	2.8471889524	2.3233420924	0.0853672591
H	0.936033497	3.6570827359	0.6907872893
H	0.4220056361	5.3741411744	-0.8295361745
H	0.1360342164	4.1541604452	-2.0808619351
H	2.3527250751	5.1009098662	-2.4767281181
H	2.2522741635	2.6948732134	-2.8871182895
H	3.7902634987	3.0328126938	-2.10939209
H	-1.7195697533	2.4360649549	-0.5771232701
H	-2.5305094724	1.5470670694	1.5795997785
H	-1.2099083107	0.3549392087	1.6058254388
H	-0.8551146055	2.098239165	1.7376712387
H	-1.8608309496	-0.3907588566	-1.2473775187
H	-6.2175567941	0.4639691137	-2.2311173998
H	-4.2163632794	-0.6801733596	-2.5042151433
H	-6.7269485392	-1.9650374551	-2.2989892558
H	-3.4272819661	-4.530439429	-0.4192147076
H	-2.8757828771	-3.4565596343	0.8824134579
H	-8.1968758925	-0.3749840225	-0.5490859986
H	1.7690454002	-4.5032461728	-2.4535564819
H	0.1088284363	-5.0629071707	-2.2185215196
H	0.4051640078	-3.3760410832	-2.6885040192
H	0.3661687779	-5.6500631235	0.3772630542
H	1.5843171962	-4.6923982302	1.239637421
H	3.0322215062	-5.3640927976	-0.3690067227
H	-5.736574374	1.2542412549	-0.1018554975
H	3.8347383075	-2.0811519292	2.3671433904

1g conf_2

energy (M062X/6-31g(d,p)) = -2585.2742168 Hartree

C	-1.0036446005	0.0287759319	0.5016499
O	-0.7630091858	0.7304810479	1.4511204717
C	-1.7552137346	0.4724382344	-0.7597373508
N	-1.6664705187	1.9221740333	-0.8499395876
C	-0.4934596122	2.5950465294	-0.8295537904
O	0.598989729	2.0390803927	-0.9387907449
C	-0.6055139891	4.1063967183	-0.616907474
C	-0.0766323764	4.9417042117	-1.7908698223
C	1.4487114668	4.9578190654	-1.8693386456
C	2.0375198498	5.2898783949	-0.5009399722
N	1.5501741965	4.3895168257	0.5482767174
N	0.1471647669	4.4216070128	0.6011573066
C	-0.4890183895	4.4847084437	1.7984145589
O	-1.7157410012	4.4158652679	1.8855618464
C	0.3876395417	4.6481809956	3.0452354443
N	-0.2613839655	3.9783391819	4.1647087687
N	-1.4027705316	4.5619769572	4.736244501
C	-1.124659784	5.9311743447	5.1580277468
C	-0.5974120948	6.760666833	3.9907596158

C	0.6493903667	6.1202665546	3.4033614508
C	0.0627022738	2.6929196477	4.4540154671
O	0.9717194138	2.1046981197	3.8737532698
C	-0.7159148713	1.9863875796	5.5626295407
C	-0.0507802028	2.2540339567	6.9153807068
N	-0.69494075	0.5807760273	5.1962634581
C	-1.4557417935	-0.346955551	5.7707753912
O	-2.2358726401	-0.1245118943	6.7090720975
C	-0.9971692645	-2.7981722043	6.2790988669
C	-1.4094938419	-1.7732953263	5.2099924646
N	-0.5500556163	-1.9262450418	4.0489676971
N	0.7922542648	-2.1683829893	4.1501252894
C	1.2763182243	-2.473993954	5.2928582142
C	0.5008571075	-2.6697712236	6.5666472885
C	-1.0737108867	-1.7587053643	2.7859947533
O	-2.2662288666	-1.5960729548	2.6075778914
C	-0.0678648831	-1.7833549737	1.6409703759
O	-0.684399953	-1.2810901778	0.4589310577
O	0.7523618648	-1.5699305335	7.4178236399
C1	-0.2241467616	8.4409467697	4.5522056377
C	-3.2286148426	0.0959253655	-0.5745676842
C	-1.1960447102	-0.1763584258	-2.0507511849
O	-1.4950791497	-1.5457405277	-2.1738754798
O	-1.7250433595	-2.6485512483	7.4731222234
H	2.3520268938	-2.621078098	5.3127951304
H	-2.504216015	2.4379256103	-0.6234409638
H	-1.6408211954	4.3797859314	-0.4133408867
H	-0.4422873199	5.9644879112	-1.6451507652
H	-0.5188515165	4.5727542507	-2.7212001512
H	1.7731371047	5.6973591033	-2.608210352
H	1.7806184061	6.3126381255	-0.2050059184
H	3.1276290067	5.2074937228	-0.5052601679
H	1.7995581742	3.4316438009	0.2953830113
H	1.3400244021	4.1530202062	2.8762289925
H	-2.1116550157	4.5670414372	4.0018378983
H	-0.3864368821	5.9085222608	5.9652023059
H	-2.0534693301	6.3519929646	5.5488066909
H	-1.3748710455	6.8764377386	3.2328728066
H	0.9921049817	6.6605029505	2.5178863746
H	1.4512850765	6.1505113775	4.1477627254
H	-1.7491970837	2.3320180945	5.5899017753
H	0.9979607138	1.9472097383	6.8917175667
H	-0.1051169162	3.3180438472	7.1578074913
H	-0.5680954553	1.6902570836	7.6930864998
H	-0.034339771	0.3385457205	4.467138252
H	-1.1903229164	-3.7944870887	5.8660087429
H	-2.4283859141	-1.9870628375	4.8813691123
H	0.8519392314	-3.6023544395	7.0319656872
H	0.2297497231	-2.8065034355	1.4104090883
H	0.8196585475	-1.2017110313	1.8852429804
H	0.1153667036	-1.6766219561	8.144040655
H	-3.6324545008	0.5428686097	0.337774233
H	-3.3321613871	-0.9862781086	-0.5120596698
H	-3.8054862727	0.4509115736	-1.433204253

H	-0.1203067121	0.015036423	-2.1124673168
H	-1.6812178256	0.3282114639	-2.8900263948
H	-1.0353391191	-1.9957909706	-1.450260541
H	-2.1280034337	-1.7521440313	7.4486677584
H	1.8212057737	3.9821599986	-2.1967303206

1g conf_3

energy (M062X/6-31g(d,p)) = -2585.2739813 Hartree

C	-0.5224711749	-0.2926307859	0.5806389592
O	0.255150168	0.270138088	1.3184717998
C	-1.1992740802	0.3789637308	-0.6135720741
N	-0.8746667095	1.7939325959	-0.4389658041
C	-1.0183818191	2.7994541962	-1.3105912849
O	-1.3670106694	2.6782336749	-2.4895631119
C	-0.7660743728	4.2035791934	-0.7369046596
C	-0.0868088083	5.127843784	-1.750428306
C	1.4097362427	4.8456335008	-1.8472145294
C	2.0325334963	4.8780387114	-0.4561386246
N	1.3728408991	3.9630091034	0.4811368522
N	-0.0154890159	4.1714837847	0.5169278992
C	-0.6250675689	4.4876073295	1.6972838798
O	-1.8260884074	4.7472166145	1.7449318781
C	0.2391518836	4.4720049972	2.9621004305
N	-0.5583327026	3.9702315341	4.0728093523
N	-1.5815621768	4.780654216	4.5872181985
C	-1.0552062464	6.0816441022	4.9934547408
C	-0.3240666063	6.7604523947	3.8391104185
C	0.7860599796	5.8678595175	3.3091633296
C	-0.4060092213	2.6852716786	4.5101983921
O	0.451955506	1.9461355241	4.0498126315
C	-1.376198599	2.2185883449	5.6067890628
C	-0.9231784861	2.676028734	6.9926315419
N	-1.5816176643	0.7825246554	5.4976064263
C	-0.773628487	-0.194032832	5.9382319278
O	0.2565420347	-0.0099939995	6.5932040695
C	-1.0668562485	-2.6637391149	6.6537926115
C	-1.2642097822	-1.6030048782	5.5569607574
N	-0.5925549952	-2.0457577661	4.3321807321
N	0.5935105672	-2.7241540326	4.3339385105
C	1.052101845	-3.1759866335	5.4374844711
C	0.3959380639	-3.0988968305	6.789980674
C	-1.0955865197	-1.6624987118	3.117413066
O	-2.0910707815	-0.9592243215	3.0315912769
C	-0.3642596009	-2.1981454195	1.8915586811
O	-0.8823809132	-1.5693950329	0.7238674842
O	1.1079962731	-2.2685702665	7.6855114506
Cl	0.3662932548	8.3385700612	4.3992096345
C	-2.7143712473	0.1585806152	-0.5620186532
C	-0.5967095523	-0.2195656323	-1.9161057105
O	-1.3552168746	0.0503451014	-3.0588255516
O	-1.5692922514	-2.2111268554	7.8817987892
H	2.0140280491	-3.6756829404	5.3656804312

H	-0.5670506958	2.0351701132	0.494935295
H	-1.754680097	4.5956876979	-0.4819507124
H	-0.2479126924	6.1609332649	-1.4248534139
H	-0.5806790427	5.0018493591	-2.7155759328
H	1.8934947339	5.5855240632	-2.4921390812
H	1.969444311	5.8863459035	-0.033324092
H	3.0871105445	4.592234964	-0.4773444972
H	1.5370296932	2.999783361	0.191719795
H	1.0713037957	3.7865869575	2.8245130141
H	-2.2519506242	4.9060147557	3.8287990532
H	-0.3702933476	5.9362962307	5.8343260984
H	-1.8971990012	6.6885377591	5.3332366762
H	-1.0302028444	7.0209941018	3.0485924436
H	1.2640767856	6.3129722232	2.4332871117
H	1.5504325215	5.7460425704	4.0830639034
H	-2.3496921679	2.6698787729	5.4121913845
H	0.09534891	2.3575928835	7.2093373449
H	-0.9819337871	3.7649653299	7.0400155825
H	-1.5894065362	2.261071845	7.7531055755
H	-2.2778399261	0.4915424564	4.8226560108
H	-1.6509179765	-3.5358251535	6.3414440577
H	-2.328294742	-1.5533757364	5.3229213321
H	0.420942512	-4.0995643174	7.2318082104
H	-0.5596798401	-3.2638113126	1.769586328
H	0.709289969	-2.0395443773	1.9763951646
H	1.0400398121	-1.3585618398	7.3086066017
H	-3.118674701	0.5010075371	0.3930245167
H	-2.9499544553	-0.8995546705	-0.6870054229
H	-3.1853334707	0.7165861591	-1.3718906542
H	-0.5692915005	-1.3056735025	-1.8009480537
H	0.438999837	0.1392484037	-2.0052323199
H	-1.4220406708	1.0286893986	-3.0999896601
H	-0.7858452408	-1.9123348072	8.3774181357
H	1.5811632548	3.8620698752	-2.3030918457

1g conf_4

energy (M062X/6-31g(d,p)) = -2585.2738904 Hartree

C	-0.7497613306	1.3166295458	-0.8891628878
O	-0.4081382323	0.1800163464	-0.6522708407
C	0.2201869809	2.4818819407	-1.0661992508
N	1.5041100006	1.9211611051	-0.6455179333
C	2.7337563277	2.4143666661	-0.849755334
O	3.0048472389	3.4026705799	-1.5321813019
C	3.8696993923	1.6697503754	-0.1266364725
C	5.1376772948	1.6267612157	-0.9816830635
C	5.0192927261	0.5786501143	-2.0851879274
C	4.624163927	-0.7664658448	-1.4835294725
N	3.4119358163	-0.6961501688	-0.6661882414
N	3.4900741571	0.3224068568	0.2941643746
C	3.3446736178	0.0270584629	1.6214452585
O	3.4706720816	0.8950682104	2.4819355088
C	2.990566452	-1.4135086827	1.9931946195

N	1.9291541809	-1.3907608545	2.9923381303
N	2.221796888	-0.9333110249	4.2842675436
C	3.328470621	-1.6963215042	4.8562029342
C	4.5574371156	-1.6679408244	3.9505485264
C	4.2039762882	-2.1698497229	2.5584041027
C	0.646040415	-1.6774810733	2.6321719172
O	0.3606518183	-2.0258042543	1.493278146
C	-0.433027586	-1.5556928706	3.7062120794
C	-0.3832254657	-2.709828456	4.7084762113
N	-1.7032779292	-1.5368820158	2.9934253022
C	-2.7369031003	-0.7966604493	3.4875262969
O	-2.7590457829	-0.3387352781	4.615173532
C	-4.7442134865	-2.1054760335	2.8807484068
C	-4.0152093425	-0.7733674005	2.6401551284
N	-3.8134783681	-0.571080732	1.2061130449
N	-4.644493737	-1.0941274738	0.2489138259
C	-5.6317713603	-1.8139899671	0.6124906169
C	-6.0037825584	-2.1797368074	2.0272595717
C	-2.9972111044	0.4512998767	0.7764856938
O	-2.3390398661	1.1139165981	1.5530362541
C	-2.9766244559	0.6809863124	-0.7333752307
O	-2.0242587956	1.6906858383	-1.0366886734
O	-6.5899474479	-3.4527437123	2.0851396651
C1	5.8626920125	-2.6882038636	4.662867493
C	-0.1844131069	3.6568482993	-0.1717058487
C	0.2093018451	2.9048266123	-2.5657804351
O	0.7446192585	4.1661241276	-2.8019824559
O	-3.9830892058	-3.2205961952	2.4743430445
H	-6.2488716572	-2.2126463089	-0.1888011885
H	1.4231483735	1.0924090331	-0.0700853905
H	4.0554135585	2.227217135	0.7958132357
H	5.9840502972	1.3863647851	-0.3284799415
H	5.3035083888	2.6224015313	-1.3966901208
H	5.9660748599	0.4858183848	-2.6270356529
H	5.4293193555	-1.1465170949	-0.8441281389
H	4.4367929997	-1.5193262767	-2.2543231345
H	2.5957838	-0.5176316099	-1.2492545009
H	2.6028114855	-1.9349428886	1.1215470545
H	2.4998288581	0.0434172534	4.1858404426
H	3.0017052129	-2.7309310951	5.0025083917
H	3.5573349554	-1.2695430726	5.8355579493
H	4.9621228523	-0.6555863879	3.9050736892
H	5.0581296392	-2.076584322	1.8818616329
H	3.9429589906	-3.231670198	2.6170106494
H	-0.3186298137	-0.6148298704	4.2494435593
H	-0.4597366401	-3.6727974236	4.1945659237
H	0.5434762717	-2.6824679796	5.2836722566
H	-1.2210815038	-2.6091529614	5.4021821063
H	-1.6065248672	-1.6649680024	1.9885723476
H	-4.9982176707	-2.1603830378	3.9469461931
H	-4.615005694	0.0450234421	3.0519764279
H	-6.7507275165	-1.470729979	2.4029326765
H	-3.9369910257	1.0600155653	-1.0810344021
H	-2.7495618249	-0.2458315262	-1.2605513129

H	-5.8506789252	-4.07850312	2.0218012132
H	-0.2705657724	3.336306281	0.8688382192
H	-1.143989537	4.0630120945	-0.4945052631
H	0.5665743341	4.4430303809	-0.2549843777
H	-0.8344095933	2.9400258213	-2.8877125885
H	0.7138228902	2.1119532791	-3.1409864742
H	1.669942994	4.1256968898	-2.4860111563
H	-3.0975641081	-3.1511956529	2.8691019796
H	4.2642718388	0.8935530572	-2.8169341641

1g conf_5

energy (M062X/6-31g(d,p)) = -2585.2720115 Hartree

C	0.0824346905	-3.124228307	-0.3763832456
O	0.1854660463	-2.2614579099	0.4633649433
C	1.2303414177	-3.631463728	-1.2553111712
N	2.3322274212	-2.6918121814	-1.0986998704
C	3.299873779	-2.6964464755	-0.1589424628
O	3.6729353821	-3.6818684227	0.4742316783
C	3.9537791467	-1.3157486013	0.0462720916
C	5.1026505779	-1.3598049259	1.0522408868
C	4.6000242112	-1.4544011175	2.4911969144
C	3.578151771	-0.3548278977	2.7565279602
N	2.4838569647	-0.3471366627	1.7896702875
N	2.9557434445	-0.3246579509	0.4710899359
C	2.2866086004	0.4185696913	-0.4439651297
O	2.4651651177	0.2478440262	-1.6554195709
C	1.3418424527	1.5010987583	0.0838487959
N	0.3809527465	1.8636142881	-0.9397226615
N	0.8337488657	2.5488962122	-2.074764083
C	1.5161038289	3.7797567842	-1.6892506935
C	2.6440006771	3.502545774	-0.6968069708
C	2.1162707453	2.7581361963	0.5210873293
C	-0.8987922122	1.3809055042	-0.8758209294
O	-1.2720762076	0.695106244	0.0594259281
C	-1.8335868022	1.7370700958	-2.0480815343
C	-2.2911175407	3.1948952054	-2.0191710574
N	-2.9236845309	0.7755539785	-2.060634757
C	-3.8819515311	0.7206934569	-1.1162200468
O	-4.1893901512	1.6583463754	-0.3829611255
C	-6.0983608932	-0.3615045534	-0.542529084
C	-4.6882353258	-0.614664889	-1.1042197945
N	-3.9966381375	-1.6870720177	-0.3619879102
N	-4.5774750191	-2.4077428572	0.6654384499
C	-5.8489956287	-2.4071756916	0.7403755708
C	-6.7801458069	-1.6787149005	-0.1928086929
C	-2.8324706217	-2.2271043499	-0.8297913358
O	-2.3137103545	-1.882538213	-1.8827541711
C	-2.2223834779	-3.3349144198	0.0253492622
O	-1.0476229124	-3.805860913	-0.6169050893
O	-8.0301382552	-1.4533546776	0.3978632022
Cl	3.4176756589	5.0525434157	-0.1975095188
C	0.8433674681	-3.6573350606	-2.7343458024

C	1.5803065942	-5.0689722559	-0.7778325132
O	2.7658888865	-5.5432758002	-1.3381365764
O	-6.1207097895	0.3425330566	0.6705843565
H	-6.2818119447	-2.981258516	1.5558399721
H	2.1886210438	-1.7938113648	-1.5542059342
H	4.3135001879	-0.9720804722	-0.9277359821
H	5.6974583716	-0.4475450406	0.9266843964
H	5.742708945	-2.2112916964	0.811463382
H	5.4384827094	-1.3649010289	3.189835058
H	4.0581861595	0.630193969	2.7175990756
H	3.1206209369	-0.455789229	3.7445951761
H	1.8873837827	-1.1693261261	1.8872914976
H	0.7818054064	1.104646789	0.9281376725
H	1.4873590164	1.9201661983	-2.5422315718
H	0.7865604953	4.458840674	-1.2371253813
H	1.9042961748	4.2497150798	-2.5962971008
H	3.4331358424	2.9275686226	-1.188709595
H	2.9295376115	2.4852155723	1.1974136825
H	1.4285702489	3.4094537957	1.0697361345
H	-1.2822864293	1.5810274905	-2.9781827309
H	-2.7369469556	3.4548969425	-1.0605053417
H	-1.4354521194	3.8413554151	-2.2208831136
H	-3.0378849135	3.3556075565	-2.8010436362
H	-2.6620213497	-0.1467714078	-2.4041255893
H	-6.667741834	0.1675757294	-1.3206897112
H	-4.7930160211	-0.9513726334	-2.1431863471
H	-6.9465176278	-2.2870641424	-1.090601872
H	-2.8924517655	-4.1894884084	0.1015863182
H	-2.0047886617	-2.9585795119	1.0259911711
H	-7.888896529	-0.6978345552	0.9926599513
H	1.6685871813	-4.0986346653	-3.2970118703
H	0.6453943846	-2.6498981199	-3.1119800934
H	-0.0574058034	-4.253441241	-2.8826876932
H	0.7644356194	-5.7177695237	-1.1064768897
H	1.6151946602	-5.0941796751	0.3170331367
H	3.4624488625	-5.1360290297	-0.7932429151
H	-5.4997546505	1.0959081049	0.5500645943
H	4.143657668	-2.4362298356	2.6512003557

1g conf_6

energy (M062X/6-31g(d,p)) = -2585.2719508 Hartree

C	0.4268613279	-2.8197457469	-0.9371525744
O	0.4038229608	-1.8418815502	-0.2335648105
C	1.6223234935	-3.2812178644	-1.7799583479
N	2.7900743476	-2.528952556	-1.3504772677
C	3.2000121789	-2.5055653121	-0.0512841709
O	2.905836178	-3.3507569305	0.7806692427
C	4.031492372	-1.2611240115	0.2895094944
C	4.9354646678	-1.4364820467	1.5097308565
C	4.168580394	-1.3977538666	2.8305348061
C	3.2579781788	-0.1758252562	2.8642629791
N	2.3701433365	-0.1012222687	1.706996514

N	3.094124663	-0.1459827848	0.5080376507
C	2.6711165276	0.6037647871	-0.5404391596
O	3.0953693839	0.4010591642	-1.6847579972
C	1.6979509363	1.7448978388	-0.2386394954
N	0.8608038082	2.0094678658	-1.3942790437
N	1.4443844196	2.5773083013	-2.5353014435
C	2.106694889	3.8341698847	-2.1981565242
C	3.1204718001	3.6433084349	-1.0716096565
C	2.452465718	3.0303006227	0.1500402455
C	-0.4418897027	1.5856894722	-1.4062873053
O	-0.9380225705	1.0232894107	-0.4466694671
C	-1.2443221884	1.8497241102	-2.6953146537
C	-1.6807253215	3.3089306604	-2.8208995456
N	-2.341952886	0.8981065018	-2.7461692953
C	-3.396381961	0.9175997786	-1.9103617196
O	-3.7748917851	1.9108256235	-1.2925898308
C	-5.6475468481	-0.1237508739	-1.3964341474
C	-4.2157950408	-0.4114779894	-1.882116546
N	-3.5757310372	-1.4696957694	-1.0727237945
N	-4.2067050046	-2.1314301296	-0.0335627779
C	-5.4799497644	-2.1103606682	-0.0121552654
C	-6.3587712168	-1.4175884495	-1.0203765689
C	-2.416656026	-2.0624948154	-1.4773039367
O	-1.8533513097	-1.7806658124	-2.5275102667
C	-1.8650170235	-3.1500604662	-0.5573468004
O	-0.6418810533	-3.6314073637	-1.1007409464
O	-7.6326702988	-1.1552802415	-0.501207571
Cl	3.8689856142	5.228343792	-0.6471711457
C	1.3424067489	-2.9178531317	-3.2416853833
C	1.872343992	-4.80639146	-1.6534874902
O	0.9267411736	-5.587048158	-2.3390770447
O	-5.7165699368	0.6323883594	-0.2163820041
H	-5.9550964585	-2.6371963471	0.8115823082
H	2.952952412	-1.6597568697	-1.8529636296
H	4.6285677644	-0.9833014501	-0.5817148644
H	5.675966108	-0.6278702927	1.4927943776
H	5.4800587171	-2.3790846305	1.4070571667
H	4.8711584811	-1.3677826753	3.6701214077
H	3.8481985206	0.7478077869	2.8831342173
H	2.6177149319	-0.173874723	3.7508581713
H	1.7172297398	-0.8856924377	1.6971447078
H	1.0403639662	1.4465588763	0.574363991
H	2.1389876068	1.9038462656	-2.8590926522
H	1.3472056845	4.5603073859	-1.8917447594
H	2.5951804794	4.2107359106	-3.1003527392
H	3.9428572872	3.0133211254	-1.4190433328
H	3.1855365237	2.8178137404	0.9323924632
H	1.7262058676	3.7416103563	0.5563272774
H	-0.6035639729	1.6192422599	-3.549120287
H	-2.2224479959	3.6394901413	-1.9360620364
H	-0.7992230995	3.9339400699	-2.9743683352
H	-2.3373549034	3.4183891168	-3.6878554104
H	-2.0750045632	-0.0428406052	-3.0295097423
H	-6.1764518366	0.3757515646	-2.2209777618

H	-4.2745417685	-0.7847607089	-2.9122273529
H	-6.4876051775	-2.0657559741	-1.8963542381
H	-2.5340909554	-4.0080069354	-0.5135345458
H	-1.7228656773	-2.7555267619	0.4490637658
H	-7.512871932	-0.3705989591	0.0597977138
H	1.1612678084	-1.8445667003	-3.3458446887
H	0.4697492614	-3.4558691828	-3.6060999531
H	2.2072890079	-3.1968960803	-3.8499773816
H	1.9466824867	-5.0748170062	-0.5949904436
H	2.8407375753	-5.0041000048	-2.120083047
H	0.0720572641	-5.4192493813	-1.919055714
H	-5.1084069141	1.3921613157	-0.3582448447
H	3.5694396258	-2.3068872745	2.9282924016

1g conf_7

energy (M062X/6-31g(d,p)) = -2585.271894 Hartree

C	-0.9220552266	-2.5475351072	0.4474302345
O	-0.7565095323	-1.5303295892	1.0821563038
C	0.1487234334	-3.1779399214	-0.4385508338
N	1.2502060953	-2.2159300438	-0.3702038499
C	2.4951994468	-2.3585148582	-0.8474878564
O	2.9608639243	-3.3953842743	-1.321468759
C	3.3631995239	-1.0874027711	-0.8080220559
C	4.8402312507	-1.4304107255	-0.6079466271
C	5.115250854	-1.8243834528	0.8411488049
C	4.5825961424	-0.750039502	1.7842349024
N	3.1703329246	-0.4319909466	1.5582438859
N	2.9166470218	-0.1401387999	0.2109816345
C	2.4111742064	1.0815987837	-0.139390938
O	2.2716342322	1.3990736486	-1.3173822618
C	1.991769593	2.0189310533	0.9956327322
N	0.7288443659	2.6510767679	0.638667116
N	0.7135017826	3.618571335	-0.3756475084
C	1.6565522956	4.6903832195	-0.0728409399
C	3.0624143888	4.1423949599	0.1616144638
C	3.0476333507	3.1014999103	1.2711569452
C	-0.4359770869	2.1669769592	1.1600660435
O	-0.4438149599	1.2706894714	1.9923422356
C	-1.742928299	2.8020482799	0.6984727768
C	-2.0820597031	3.9944837155	1.597070594
N	-2.7398293242	1.7463745871	0.7738371393
C	-3.9258487657	1.8614085969	0.1741204432
O	-4.3067959696	2.8815813558	-0.4049775564
C	-6.2569676432	1.2253660718	0.7320753781
C	-4.9062798945	0.6784472109	0.212441408
N	-4.4404802851	-0.5042461403	0.9352840549
N	-4.881164476	-0.8651742307	2.1973322474
C	-6.0700057425	-0.5054960423	2.4875350081
C	-7.0128379528	0.1648955304	1.5249689353
C	-3.5435816058	-1.3399732181	0.3193588932
O	-3.1265070548	-1.1174884505	-0.8016926128
C	-3.1328564632	-2.5732829541	1.1215261156

O	-2.0686939886	-3.2327298674	0.4462972493
O	-8.1340737085	0.7081423039	2.1603651143
Cl	4.1828982571	5.4884759827	0.5897118126
C	-0.3809236913	-3.3095868731	-1.8708172501
C	0.5337592318	-4.5714444951	0.1357538818
O	1.2007471543	-5.3905169384	-0.770036992
O	-6.1040218389	2.2998930989	1.6353633656
H	-6.4310212672	-0.7617116216	3.480037419
H	0.9829922882	-1.3134249131	0.0065232565
H	3.216749138	-0.5829500139	-1.7676824261
H	5.435731469	-0.5508484512	-0.8772342632
H	5.1016230678	-2.2393628093	-1.2920895057
H	6.1888808047	-1.966279177	1.0020033718
H	5.1497889885	0.1792904058	1.6578894603
H	4.6719235284	-1.0467170096	2.8331397913
H	2.580799816	-1.2196282888	1.8230100594
H	1.8176429057	1.4402159404	1.8993871327
H	1.0049918963	3.1408237447	-1.2290283445
H	1.3108722308	5.2209358873	0.8199249925
H	1.6469284476	5.3911442334	-0.9110169894
H	3.4513504855	3.7146416533	-0.7645908508
H	4.0343403446	2.6461243927	1.3923262761
H	2.7928756926	3.5919154859	2.2164382948
H	-1.669596556	3.1437560813	-0.334119017
H	-2.1380795397	3.6801746724	2.6424871505
H	-1.3188213795	4.7706494572	1.4980441382
H	-3.0419732587	4.4138494584	1.2922783278
H	-2.4699539019	0.9135097691	1.2837686913
H	-6.8563489506	1.5436353052	-0.1267699043
H	-5.0187114763	0.3758051505	-0.832256859
H	-7.3697194692	-0.607920363	0.8298370034
H	-3.9479701345	-3.2963059936	1.1652143412
H	-2.8468670479	-2.2971708901	2.1366060757
H	-7.8520603827	1.5884855051	2.4586476523
H	-0.7427895717	-2.3460629747	-2.235756613
H	-1.2018075568	-4.0274201466	-1.902082948
H	0.4192745014	-3.6728772296	-2.5161025307
H	-0.3918409771	-5.086572782	0.4037908515
H	1.107324227	-4.404481157	1.062107035
H	1.9890946237	-4.8898393407	-1.0617391518
H	-5.7327810545	3.0337202581	1.1174695002
H	4.6319918054	-2.7849778795	1.0602149039

1g conf_8

energy (M062X/6-31g(d,p)) = -2585.2716893 Hartree

C	-0.0059510582	-3.8167021079	-0.62605148
O	-0.7769713315	-4.7447858232	-0.6238320829
C	1.2583958316	-3.8075020564	-1.4802546706
N	2.2361545233	-2.8089952477	-1.0693198213
C	2.7434394946	-2.7211383296	0.1870363928
O	2.5461405514	-3.5440420247	1.0697039939
C	3.5938922587	-1.4602479701	0.401581434

C	4.6475347136	-1.6110648063	1.5009099801
C	4.0636237443	-1.5118996966	2.9084995411
C	3.1875816813	-0.2701563529	3.0166423105
N	2.1492998084	-0.2279706103	1.9864348331
N	2.7031799033	-0.3306590448	0.702584979
C	2.2144264471	0.4342928755	-0.3078096463
O	2.4804893496	0.1826398705	-1.4875423315
C	1.3914067296	1.6612140138	0.0764470162
N	0.3220951118	1.8766404005	-0.8869100243
N	0.6389697938	2.3176673705	-2.1783035031
C	1.4311544553	3.5428624764	-2.1287133856
C	2.6731606675	3.3722306725	-1.2579225019
C	2.2793201491	2.91761851	0.1389159635
C	-0.9473992157	1.5004928745	-0.5814605569
O	-1.2145108364	0.9860821878	0.5016323745
C	-2.0527282888	1.7707293201	-1.6098729034
C	-2.4053827669	3.2560805971	-1.6827517496
N	-3.1803995094	0.9647821555	-1.1707605728
C	-3.8008047155	0.1092547575	-2.0422439777
O	-3.8848836414	0.289540729	-3.2393169153
C	-5.8499726393	-0.5406177708	-0.7489936848
C	-4.5327411672	-1.0516779639	-1.3473806457
N	-3.7037223782	-1.6616868493	-0.304842168
N	-4.1811316162	-2.1333805783	0.8878423031
C	-5.4412797662	-2.1223876894	1.0827764498
C	-6.4873097662	-1.6207038665	0.1181693177
C	-2.3910237821	-1.9503890833	-0.5997131247
O	-1.9374049148	-1.7244571558	-1.7060288783
C	-1.538206231	-2.5022487726	0.5350201947
O	-0.2172592302	-2.6650039197	0.0398488545
O	-7.6162042888	-1.1355549523	0.7948581112
Cl	3.5785255525	4.9281703024	-1.1718341912
C	0.8170375282	-3.4575758961	-2.9068497525
C	1.8955604712	-5.2135592383	-1.4578532023
O	3.0145343114	-5.2842865653	-2.3085655553
O	-5.672390008	0.5467327634	0.1358580193
H	-5.7800276357	-2.5002812224	2.0437874642
H	2.3042084289	-1.9664876024	-1.6322884763
H	4.0809767208	-1.205741724	-0.5419473779
H	5.3906580751	-0.8176432093	1.357501518
H	5.1612372767	-2.5663469682	1.3634579499
H	4.8716709862	-1.4690259058	3.6462419007
H	3.7860232756	0.642157845	2.913943904
H	2.6737154321	-0.2192794674	3.9806520682
H	1.5162328864	-1.0190272488	2.1062066866
H	0.9281976135	1.4916919188	1.0455170511
H	1.1879478861	1.5727303778	-2.6070738555
H	0.8081863568	4.3487074637	-1.7275201079
H	1.7056307601	3.8035241963	-3.1534806002
H	3.3553209047	2.6558257157	-1.719811911
H	3.1639857945	2.7224895368	0.7509126774
H	1.707709856	3.7144409931	0.626212423
H	-1.7425013464	1.4256212249	-2.5982357331
H	-1.5604681878	3.8387048559	-2.0543700853

H	-3.2441247433	3.3863597518	-2.3704297184
H	-2.6981259782	3.6352758333	-0.6992085741
H	-3.0323582674	0.616471404	-0.225238214
H	-6.5160271194	-0.2706648687	-1.5779199588
H	-4.748785243	-1.7800068796	-2.1347326702
H	-6.8289344851	-2.4493011653	-0.5132431796
H	-1.935207142	-3.4428232631	0.914914002
H	-1.4880393539	-1.7710674442	1.3418086854
H	-7.3596913173	-0.2614050039	1.1290361643
H	0.0647960818	-4.1729999765	-3.2426847275
H	0.376842512	-2.458322922	-2.9453057675
H	1.6812093151	-3.5211203637	-3.571870339
H	1.1639578541	-5.9307824811	-1.8294844034
H	2.1493519072	-5.4802658539	-0.4264819203
H	3.6644218485	-4.6572765873	-1.9644033247
H	-5.1717976444	1.2449479741	-0.3157883211
H	3.4678607659	-2.4044164382	3.1197920281

1g conf_9

energy (M062X/6-31g(d,p)) = -2585.2704595 Hartree

C	-0.5496063072	-0.554950757	0.791857345
O	0.17430095	-0.1265544849	1.6647817917
C	-0.9274238044	0.1997479748	-0.4757123372
N	-0.7057045586	1.6229467934	-0.1895450049
C	-0.7307867914	2.5843302958	-1.1272338829
O	-0.7731323872	2.3691699389	-2.3448453746
C	-0.7618083828	4.0433293484	-0.6572400751
C	0.0443362649	4.9499676023	-1.5935608087
C	1.5414563036	4.8157190999	-1.3310128874
C	1.8285767874	5.0462841903	0.1483418204
N	1.0318483917	4.1842921367	1.0270101284
N	-0.3318470586	4.2425019665	0.7172430692
C	-1.2225454839	4.655435932	1.6683258483
O	-2.4189820599	4.7535025752	1.4340551701
C	-0.6273428005	5.1633173342	2.9876571304
N	-0.0616838231	4.1456566869	3.8746197491
N	0.5686818033	4.628451222	5.0268391441
C	-0.3594493504	5.4084343549	5.8388566497
C	-1.0790518011	6.5058975617	5.0638236912
C	-1.6644293637	5.97411837	3.7631524489
C	-0.2600137164	2.8128681377	3.7360450344
O	-0.9546673537	2.3499721241	2.8349908824
C	0.478511745	1.9079640962	4.7290788602
C	1.9692460755	1.8388892412	4.3901907933
N	-0.1008153572	0.5846935127	4.6972243563
C	-0.8400213951	0.0999220303	5.7022618398
O	-1.1080750753	0.740342982	6.7257711796
C	-1.2210269773	-2.1736816943	6.8114223221
C	-1.4172614744	-1.3147505518	5.5471669929
N	-0.8889758091	-2.0415274922	4.3994509786
N	0.2147152219	-2.8453141304	4.4691280784
C	0.7335201191	-3.0900932535	5.6107429496

C	0.2460801379	-2.572344438	6.9424580239
C	-1.4747605647	-1.8708773898	3.1682391999
O	-2.4764042162	-1.1906454277	3.0309104512
C	-0.7832827896	-2.5347213271	1.9834283248
O	-1.0799033178	-1.7809898853	0.8113018836
O	0.9913204875	-1.4345764207	7.3417890193
Cl	0.0968043525	7.8587859368	4.7077786323
C	-2.3932918545	-0.0489859677	-0.8436575859
C	0.0272936784	-0.3538897033	-1.5864187138
O	-0.4540946095	-0.201616799	-2.8870251568
O	-1.7332888563	-1.5568655569	7.9543952843
H	1.6182296468	-3.7211206275	5.5826634452
H	-0.7438432862	1.9027737309	0.7905903025
H	-1.8173362088	4.3302213419	-0.6829337376
H	-0.2718286885	5.9831419613	-1.4136407648
H	-0.2042172843	4.6980034266	-2.62545363
H	2.1000863127	5.5353104218	-1.937773265
H	1.6054643078	6.084754786	0.4178386652
H	2.8775982369	4.8588396985	0.3919336899
H	1.3347614581	3.2162771408	0.9363144068
H	0.2116889527	5.8126882386	2.7130518723
H	1.3640596335	5.1976530314	4.7432991957
H	0.1954571322	5.8190094654	6.6843999358
H	-1.1173429583	4.7230729457	6.2335542187
H	-1.8511243482	6.9665737224	5.6803816341
H	-2.5139086303	5.3285696826	4.0087197265
H	-2.0449485987	6.7920003231	3.1487491503
H	0.347643002	2.2917773862	5.7394837866
H	2.4259594288	2.8274429399	4.4575743561
H	2.4705717625	1.1723171856	5.0959289891
H	2.1192114517	1.4506471901	3.3787254383
H	-0.0018294906	0.0641097354	3.8342438545
H	-1.7863049577	-3.098481088	6.6515040867
H	-2.4884759541	-1.1840320011	5.3787913984
H	0.3295816469	-3.3708593017	7.6898487936
H	-1.1977037684	-3.5281700124	1.8097575643
H	0.2912296324	-2.6112584075	2.1322164735
H	1.900203806	-1.7138989833	7.5184765903
H	-2.6525160881	0.5567818804	-1.7122552259
H	-3.0455234458	0.2228666136	-0.0104532429
H	-2.5562608818	-1.097841028	-1.093638968
H	0.1400639426	-1.4283061333	-1.4210069685
H	1.0102523765	0.116431594	-1.4397509789
H	-0.6005179086	0.7641362901	-2.9781650459
H	-1.4817859269	-0.6129040901	7.8742362867
H	1.8863907163	3.8153147757	-1.6222992799

1g conf_10

energy (M062X/6-31g(d,p)) = -2585.2700633 Hartree

C	-0.4228669055	-2.9937069224	0.1734555526
O	-0.2628458561	-2.226598037	1.0933764057
C	0.7057784822	-3.5196570235	-0.7108030765

N	1.7926658097	-2.565407982	-0.4874018556
C	3.1130126389	-2.7465271422	-0.6369335144
O	3.6638639381	-3.8006999441	-0.9551648394
C	3.979921343	-1.4976995529	-0.4024493223
C	5.2767623156	-1.8587592362	0.3268143685
C	5.0203012584	-2.0968130047	1.8128782811
C	4.2777276103	-0.9039890802	2.4091341345
N	3.0491407256	-0.5707864224	1.6890064882
N	3.27305033	-0.4375507187	0.3112105466
C	2.9502816289	0.7284230017	-0.324482909
O	3.1907949279	0.8890156116	-1.519540808
C	2.248052165	1.8100536297	0.495754009
N	1.1819129916	2.4007403378	-0.3032653326
N	1.5320161207	3.2111323658	-1.3956817825
C	2.3742480069	4.3178372136	-0.9553615039
C	3.6143618165	3.8051755423	-0.2270894769
C	3.2143716266	2.9192462893	0.9433339255
C	-0.0718005647	1.846911091	-0.236136362
O	-0.3063389776	0.9094486766	0.5059920684
C	-1.1563281353	2.4652843394	-1.1372252949
C	-1.4339976952	3.9396705996	-0.8395042877
N	-2.3524482495	1.6409597937	-1.0769894711
C	-3.1403869883	1.562692812	0.0134276186
O	-3.055576036	2.3160690285	0.9809300254
C	-5.5432041444	1.1146318767	0.6032017335
C	-4.3053974665	0.5356982841	-0.1049492984
N	-3.9668556081	-0.7911623938	0.4323535669
N	-4.7909372033	-1.5159777471	1.2670496493
C	-5.9998783435	-1.1384417086	1.4013827241
C	-6.630869306	0.0551028293	0.7328343644
C	-2.9761438505	-1.5335967897	-0.150310527
O	-2.3471733378	-1.1435539651	-1.1212548267
C	-2.7284783062	-2.9077841452	0.4702429404
O	-1.6121081985	-3.5038432661	-0.1724271309
O	-7.7163715752	0.5421434097	1.473036718
Cl	4.6042270927	5.1951746395	0.356132902
C	0.3018135729	-3.5440851248	-2.1853615956
C	1.0420945415	-4.958118166	-0.2125486498
O	1.7881060256	-5.7123669904	-1.1103455773
O	-5.3085698147	1.5064813	1.9290612732
H	-6.6151911793	-1.735437692	2.0698751729
H	1.4877849313	-1.6357182502	-0.2285997974
H	4.2044900419	-1.0922994039	-1.3928483922
H	5.9832731767	-1.0308504668	0.1987481152
H	5.7030470092	-2.7432164102	-0.1497457006
H	5.9653019799	-2.2552876196	2.3426476208
H	4.9195018166	-0.015376439	2.3929487494
H	3.9910527453	-1.080863706	3.4495288275
H	2.3374195027	-1.2868006811	1.8293504271
H	1.7881651195	1.3570583472	1.3703810178
H	2.0689509978	2.6152956516	-2.0283140017
H	1.7898484177	4.9606529132	-0.2897056215
H	2.6548035821	4.8999998411	-1.8365684996
H	4.252513987	3.2586440263	-0.9245696023

H	4.0958986253	2.4829564023	1.421063832
H	2.700961088	3.5305898203	1.6925103044
H	-0.7986313957	2.400183461	-2.1689685321
H	-1.6568906835	4.0988800576	0.2141144815
H	-0.5666873528	4.5321263854	-1.1302631208
H	-2.2936345756	4.2693687591	-1.4289891198
H	-2.3180501777	0.7687037125	-1.5964127669
H	-5.9043490976	1.9563457095	-0.0060750766
H	-4.5449066282	0.4188840167	-1.169293178
H	-7.0143882817	-0.2369593761	-0.2524611592
H	-3.5705407109	-3.574377221	0.2894239176
H	-2.5699076114	-2.816355478	1.5449855278
H	-7.313766372	1.044763516	2.2008797089
H	-0.0271395087	-2.5545428172	-2.5103213449
H	-0.511936905	-4.2528206895	-2.3444980614
H	1.1566367159	-3.8637139158	-2.7823018974
H	0.0903590028	-5.4790139409	-0.077253457
H	1.5213637959	-4.8695131448	0.7747211571
H	2.6441336849	-5.2441055976	-1.1884200546
H	-4.4671863557	2.0145067328	1.9129271261
H	4.4249722095	-3.0092738119	1.9456215445

1g conf_11

energy (M062X/6-31g(d,p)) = -2585.2699553 Hartree

C	0.197272409	-3.0715637007	-0.475200318
O	0.2102037397	-2.1029064475	0.2481028474
C	1.3475661221	-3.4838032401	-1.4045158713
N	2.4915815729	-2.6330174936	-1.1168758491
C	3.0755401334	-2.5986851754	0.1125892418
O	2.9592413794	-3.4729201229	0.9577397844
C	3.8875313998	-1.3181893968	0.3547790077
C	4.9374807206	-1.4601287877	1.4567377259
C	4.3307320831	-1.4572730216	2.8587328908
C	3.3883345111	-0.2689798273	3.0119883892
N	2.3735954813	-0.2096816782	1.9636741049
N	2.9524552576	-0.2315597484	0.6883130048
C	2.4151979887	0.531515787	-0.2951452385
O	2.6836146161	0.3278222513	-1.4860215229
C	1.5276877761	1.6998667749	0.1298398308
N	0.4238169468	1.8577012883	-0.8033967438
N	0.6873627107	2.3195750331	-2.0996182624
C	1.3946544996	3.5967506066	-2.0558127229
C	2.6636808456	3.5048721949	-1.2121811707
C	2.3357283241	3.0094980541	0.1880129794
C	-0.8272194003	1.4483075378	-0.4537396961
O	-1.0652666736	0.9801461112	0.6525888908
C	-1.9421476058	1.6094277624	-1.4871231343
C	-2.4193472162	3.0582101346	-1.5868798638
N	-3.0065497472	0.7236467675	-1.0403413975
C	-3.7899470694	0.0842135199	-1.9538824775
O	-3.9331196925	0.4508966781	-3.1048636888
C	-5.844014575	-0.4173842399	-0.6313803227

C	-4.6592198772	-1.0440213834	-1.380331663
N	-3.9280984777	-1.9519389185	-0.4944092039
N	-4.4997771527	-2.5954394221	0.5711317571
C	-5.7359438006	-2.3994473911	0.8156079432
C	-6.6726409912	-1.5039730463	0.0430602915
C	-2.7035365168	-2.434995106	-0.8986909295
O	-2.1771627393	-2.0434613346	-1.9224698657
C	-2.0518269675	-3.4694418809	0.0137160711
O	-0.846871375	-3.9007181837	-0.5930201684
O	-7.6571286535	-0.9556538342	0.8784452462
Cl	3.4605299816	5.1209304797	-1.1296019673
C	0.9113956667	-3.2068137581	-2.8467192782
C	1.7490940706	-4.9792344274	-1.2442859505
O	0.8588169071	-5.8884675516	-1.8370808347
O	-5.4408477066	0.4193118488	0.4307217567
H	-6.1391124717	-2.9236870037	1.6782824583
H	2.5241618487	-1.7501656244	-1.620769299
H	4.365102763	-1.0228805043	-0.5821737507
H	5.6382905798	-0.6224016898	1.3581066285
H	5.5019317197	-2.3802451712	1.28317011
H	5.125690191	-1.4060333362	3.6103378072
H	3.9464146784	0.6741642197	2.9789150423
H	2.8520904596	-0.2990259145	3.9645901829
H	1.7329657888	-1.0018044922	2.0206181924
H	1.0995728642	1.4859395242	1.1062869445
H	1.2853873901	1.6173314938	-2.5349441216
H	0.7259183137	4.3542523802	-1.6346963439
H	1.6298646186	3.8840811562	-3.0833950855
H	3.3843065379	2.8433740863	-1.6967019147
H	3.2467565001	2.8653353862	0.7750397824
H	1.7257555186	3.7613379473	0.6995957973
H	-1.59880038	1.2819105596	-2.4709532199
H	-2.7344832622	3.4296254297	-0.6072555023
H	-1.6265832353	3.7000354476	-1.9756627339
H	-3.2674360298	3.1022984854	-2.2736191135
H	-2.7868823242	0.2527396398	-0.1657323383
H	-6.4521864609	0.1309067253	-1.362065722
H	-5.0327896433	-1.591905258	-2.2516084693
H	-7.1971343593	-2.0949837936	-0.716889391
H	-2.6791311908	-4.3536696593	0.115693197
H	-1.8717831419	-3.0440361981	1.0025715658
H	-7.2157096437	-0.2342133924	1.3546616695
H	0.6680017499	-2.1501278686	-2.983889684
H	1.721193563	-3.4712916686	-3.5352358173
H	0.0144074791	-3.7768106825	-3.0864599068
H	1.8060422982	-5.2332276872	-0.1877478692
H	2.7622387758	-5.0666370499	-1.6621064085
H	0.9530276556	-5.8218572768	-2.7946455185
H	-4.8179307713	1.0807358163	0.0875405421
H	3.7813927147	-2.3890577384	3.0162486675

1g conf_12

energy (M062X/6-31g(d,p)) = -2585.2691954 Hartree

C	-0.2327320808	-2.935692837	-1.518090215
O	-0.3748947409	-1.7342814951	-1.5051270379
C	1.0870766831	-3.6502008739	-1.2489019733
N	2.0325875505	-2.5603271991	-1.0072029404
C	3.235110947	-2.6319592041	-0.414758283
O	3.756918937	-3.6567769174	0.0253609641
C	3.9581459854	-1.2712476968	-0.3241172111
C	5.3152287604	-1.3744589226	0.3701700784
C	5.1789239923	-1.4899352837	1.8868404687
C	4.2790919077	-0.3785764311	2.4147623296
N	2.9777517379	-0.3399494576	1.7465014953
N	3.118432193	-0.2781880945	0.3549372757
C	2.3573418145	0.5900018982	-0.3623200213
O	2.3488598863	0.5544850433	-1.594499842
C	1.5192487062	1.6088464382	0.4122968822
N	0.2991749047	1.8921479588	-0.3269199862
N	0.3809563016	2.6336512957	-1.5140701179
C	1.0381280404	3.9124801359	-1.2753915137
C	2.4122493033	3.7167721165	-0.6388385639
C	2.2879236715	2.92046608	0.6512732376
C	-0.8387211449	1.1997535639	-0.0347094875
O	-0.891375615	0.4114161972	0.8995239945
C	-2.0733670762	1.4839601666	-0.8877741804
C	-2.7738639419	2.7601107159	-0.414276501
N	-2.9146751919	0.3126669193	-0.7413160246
C	-3.9031609053	0.024502531	-1.5829223357
O	-4.2371936771	0.7375075829	-2.5387664975
C	-6.1536612679	-1.1054345996	-1.2302203387
C	-4.6380534439	-1.3120587119	-1.4036483641
N	-4.1346625005	-2.136411827	-0.3147434414
N	-4.5454924567	-1.9174342565	0.9759046831
C	-5.5610727354	-1.1733248808	1.1844839729
C	-6.4372177435	-0.5196579856	0.1523300444
C	-3.0085661474	-2.9458564689	-0.436093186
O	-2.4560343205	-3.4644408255	0.5026223832
C	-2.5062361832	-3.18444457	-1.8686835839
O	-1.2270522058	-3.7898553144	-1.8004586039
O	-6.1934095625	0.868699152	0.1644849672
Cl	3.1729149576	5.3173531852	-0.3108737845
C	1.4942398519	-4.470827527	-2.4786740595
C	0.906718222	-4.5831952993	-0.010440529
O	1.8623376187	-5.5936132823	0.0706438914
O	-6.692733264	-0.2796133213	-2.2273772799
H	-5.8034768556	-1.0211823741	2.2328820126
H	1.7260457267	-1.6536263016	-1.348333115
H	4.081196357	-0.8992033702	-1.3446931718
H	5.8892775401	-0.4751782185	0.118550231
H	5.8493378388	-2.2364029031	-0.0347064177
H	6.1649098189	-1.4322925634	2.3594035382
H	4.7485934058	0.6007770765	2.2682879627
H	4.0786478587	-0.4899462423	3.4840198462
H	2.4407275796	-1.1769349186	1.973202047
H	1.2288254324	1.1800726477	1.3684936862

H	0.938306426	2.073296842	-2.1598693013
H	0.4068258486	4.5152847947	-0.6151147776
H	1.122670067	4.4305195114	-2.2336162757
H	3.0771245302	3.2117094861	-1.3435803016
H	3.2715503201	2.7075779319	1.0777662809
H	1.7300413084	3.5136715723	1.3830300531
H	-1.8007715779	1.5924846102	-1.9379114414
H	-2.1266826093	3.6263453523	-0.5695911807
H	-3.6900709733	2.8989296801	-0.9902843955
H	-3.0315830009	2.6854715204	0.645103543
H	-2.6855060331	-0.2825348306	0.047907988
H	-6.6226493203	-2.0950328439	-1.2952946845
H	-4.5096869538	-1.8422506302	-2.349774962
H	-7.4867499412	-0.7278124699	0.4140881765
H	-2.4417617383	-2.2644863233	-2.4505375532
H	-3.1509669458	-3.9028208611	-2.380225497
H	-6.637446486	1.1962132882	-0.6354023373
H	0.7550158595	-5.248515512	-2.678607826
H	1.5894916044	-3.8282405337	-3.3581724704
H	2.4509684468	-4.9541014571	-2.2802317434
H	-0.0669429059	-5.0665025342	-0.0963581649
H	0.8792525829	-3.9472246964	0.8867508045
H	2.7212722029	-5.1387060665	0.1655872137
H	-5.9422085259	0.2234993013	-2.617595014
H	4.7542373448	-2.4668145317	2.1415064825

1g conf_13

energy (M062X/6-31g(d,p)) = -2585.2689887 Hartree

C	-0.4434493428	-0.1656687029	0.6495048559
O	0.2121030265	0.416768556	1.4863449276
C	-1.1740496383	0.5377690801	-0.4919809468
N	-0.7220626831	1.9256239068	-0.3947453559
C	-1.0893208181	2.9456681641	-1.1747228681
O	-1.7727126263	2.8417177256	-2.2009922409
C	-0.5917858338	4.3449078009	-0.7873993585
C	0.3182587076	4.8807396049	-1.8955690116
C	1.650775489	4.1276320314	-1.9328188856
C	2.2225158145	3.9643725901	-0.5040810368
N	1.4959913243	4.7472936378	0.4957774609
N	0.1318113672	4.4099540273	0.4886809264
C	-0.5568917044	4.3880760813	1.6630182942
O	-1.7742240638	4.2140641028	1.677827785
C	0.2580364927	4.5777308879	2.9444423339
N	-0.3842858968	3.8646596844	4.0389282871
N	-1.5821367721	4.3714878888	4.5625619958
C	-1.4194873784	5.7560472404	4.9959104498
C	-0.885960788	6.6236379615	3.8603511644
C	0.4217345557	6.0603208856	3.3282971357
C	0.1155057674	2.6759197023	4.4658475509
O	1.1154720519	2.1699286816	3.9645278568
C	-0.5786204041	1.9777855147	5.6306018024
C	0.1817186287	2.2701764548	6.9263396657

N	-0.5756775972	0.5615291011	5.2969859206
C	-1.3690785878	-0.3143530731	5.9105497133
O	-2.1340558823	-0.0099995816	6.8386018938
C	-1.1193469494	-2.7857436004	6.5103283105
C	-1.416226492	-1.757887296	5.404659746
N	-0.5630239978	-2.033130871	4.2580805749
N	0.71425509	-2.5092459359	4.3641911148
C	1.1588808032	-2.8338282967	5.5171204634
C	0.3791808489	-2.8115569387	6.8020788137
C	-1.0523324615	-1.7838593253	2.9968442237
O	-2.1625493013	-1.3105110794	2.8350140008
C	-0.1453013241	-2.1383294812	1.8248760532
O	-0.6413209193	-1.4841406174	0.6589960679
O	0.7618109346	-1.6694709112	7.543476909
Cl	-0.6357888933	8.3167381257	4.4492854761
C	-2.6821960107	0.4311702122	-0.2173031178
C	-0.8093995308	-0.1072338984	-1.8534705341
O	-1.7052182966	0.2184797508	-2.8799393576
O	-1.8300642998	-2.5222412578	7.693861007
H	2.190902992	-3.1707586463	5.5340359405
H	-0.1735308823	2.1274916818	0.4334776743
H	-1.4949454986	4.9573259205	-0.7061097243
H	0.4816337273	5.9494145791	-1.725725927
H	-0.2122413587	4.7894188219	-2.844606379
H	2.3527701444	4.6717155259	-2.570013938
H	3.264454166	4.286506353	-0.449452735
H	2.1890538671	2.9207312725	-0.1810492833
H	1.5788874811	5.738013534	0.2736863194
H	1.2430838619	4.1387008352	2.8009632603
H	-2.263424147	4.3199310788	3.805434502
H	-0.7262820845	5.7802144345	5.8418913683
H	-2.3938680654	6.1121735682	5.3367051781
H	-1.6317426736	6.7029772692	3.0665874971
H	0.7751143495	6.6365203957	2.4703090888
H	1.1855979519	6.123717377	4.1095537528
H	-1.6115053864	2.308814129	5.7258314119
H	0.1393895206	3.336872324	7.1616039544
H	-0.2738730353	1.7140244094	7.747216561
H	1.2280383502	1.9709211233	6.827648658
H	0.0839334166	0.2670602045	4.5878288972
H	-1.4156244193	-3.7683978351	6.1252043269
H	-2.4467486926	-1.8923028363	5.0685011475
H	0.6152226061	-3.7287031564	7.3597310437
H	-0.2025096155	-3.2068986963	1.6154955774
H	0.8894204271	-1.8629867111	2.0162117936
H	0.1478602031	-1.6489912232	8.2960521384
H	-2.915702905	0.8296345829	0.7720633285
H	-3.2263251493	0.9999897247	-0.9707637277
H	-3.0010915035	-0.6111474805	-0.2648909562
H	-0.8396683835	-1.1924124324	-1.7368545447
H	0.2246289398	0.1795323485	-2.0960126015
H	-1.7954069759	1.1951387843	-2.8615213256
H	-2.1565241315	-1.5970099814	7.6308159945
H	1.5085404946	3.1437701868	-2.3907383402

1g conf_14

energy (M062X/6-31g(d,p)) = -2585.2686654 Hartree

C	-0.6746235295	-0.8329720674	0.2175863124
O	-0.8601807281	-1.886797989	-0.3395602582
C	0.4920049686	0.125828827	-0.0501037936
N	0.045575558	1.5044368223	0.1083234234
C	-1.0301877141	1.969021201	-0.5677062463
O	-1.6325732429	1.300442719	-1.402470153
C	-1.5203648194	3.3842387138	-0.2317082127
C	-1.8438763821	4.1920287504	-1.4912097689
C	-0.5748295794	4.7295435275	-2.1476512656
C	0.2782358456	5.462332297	-1.1165481216
N	0.5887175788	4.6290468415	0.0514687647
N	-0.5862440224	4.1088506444	0.6184396967
C	-0.8800030641	4.345201984	1.9247944628
O	-1.9639371353	4.033895978	2.417760471
C	0.2437022327	4.894301298	2.8012513194
N	0.3032838919	4.0292917336	3.9854496424
N	-0.6385348756	4.2070881906	5.0117546864
C	-0.6709332053	5.590215289	5.4691016951
C	-0.9714823377	6.5275818931	4.305511517
C	0.0773710569	6.3616063221	3.2189186358
C	0.8876270484	2.8168244167	3.8526742839
O	1.3953750942	2.4804528822	2.7743425109
C	0.904536367	1.876310872	5.0504228799
C	2.2996346872	1.292598829	5.2510457781
N	-0.0913687095	0.8423410235	4.7974775247
C	-0.7561822949	0.2361627383	5.7943785846
O	-0.6791172377	0.5849374429	6.9747606992
C	-1.3466176575	-2.1861775186	6.2671373969
C	-1.6790187802	-0.9339692403	5.4307630273
N	-1.6533398104	-1.296009313	4.0218109644
N	-0.696239064	-2.1305309554	3.5020519818
C	0.0588979904	-2.772913228	4.3099607918
C	0.0016899719	-2.747980336	5.819794031
C	-2.6611119654	-0.8736010894	3.1772117658
O	-3.6139999845	-0.2394296333	3.5928644233
C	-2.4881826746	-1.2045818471	1.7041316307
O	-1.4140908923	-0.3827931777	1.2462520912
O	1.0296567587	-1.931724774	6.3536958838
Cl	-0.9912556992	8.2405014918	4.884858165
C	1.0914527397	-0.1091024585	-1.4323601224
C	1.5520194061	-0.1875302552	1.0403133327
O	2.6290774037	0.7092075858	1.0261979633
O	-1.4200622846	-1.9446135046	7.6399658527
H	0.8105260028	-3.394486591	3.8295698529
H	0.3802078864	2.0221197011	0.9140461419
H	-2.4276608737	3.2476989052	0.3622250782
H	-2.4902221535	5.0267386719	-1.2001892031
H	-2.4088094051	3.5543713851	-2.1739193515
H	-0.8314384839	5.4045779925	-2.9698922995

H	-0.2393935109	6.3560073228	-0.7528719098
H	1.2363800937	5.7788029155	-1.5365882936
H	1.1658080735	3.8414230247	-0.2421011321
H	1.1875357092	4.7920557208	2.2724957422
H	-1.5436896581	3.9595316024	4.6091609031
H	0.2955779353	5.8373451955	5.9177570254
H	-1.4397935009	5.660506999	6.2408263477
H	-1.9744632276	6.3379433013	3.9197549973
H	-0.1656350723	6.9616277185	2.3387478095
H	1.0406109263	6.7115857455	3.6031077295
H	0.5773891856	2.4111879453	5.9397169872
H	2.2692227067	0.5684289805	6.0666882
H	2.6503510096	0.7928010072	4.345557728
H	3.0092818551	2.0839048432	5.5081257957
H	-0.1623563884	0.4593432924	3.8653004707
H	-2.1056693287	-2.936550132	6.021647908
H	-2.696281062	-0.6127896829	5.6613335466
H	0.0976446451	-3.7768046943	6.1887587866
H	-3.4052732785	-0.9170219332	1.1897003237
H	-2.2669112021	-2.2559110043	1.524869416
H	1.8815410976	-2.3391243655	6.1453352251
H	0.3865577496	0.1778184693	-2.212485688
H	2.0013622351	0.4870976769	-1.5263590285
H	1.3422193473	-1.1643052425	-1.5570172613
H	1.931941208	-1.1935894937	0.839327857
H	1.068134953	-0.2073588754	2.0217908726
H	2.4327179677	1.3936998006	1.6888563119
H	-1.0101879803	-1.0676899899	7.7789193134
H	0.0062736289	3.9054508606	-2.5813504508

1g conf_15

energy (M062X/6-31g(d,p)) = -2585.2683561 Hartree

C	0.3866306087	-3.7110345842	-1.115003534
O	-0.3532523031	-4.6624731513	-1.1552960239
C	1.737450843	-3.6844017852	-1.8263063504
N	2.6706839951	-2.7199369648	-1.2568210639
C	2.9745740933	-2.6695496103	0.066277354
O	2.6236753452	-3.5090631021	0.8827692231
C	3.7970749021	-1.4290108734	0.447445693
C	4.62410025	-1.6124616148	1.7216756273
C	3.7917921172	-1.5015894386	2.9973903895
C	2.9420898396	-0.2375798435	2.9512256602
N	2.110827472	-0.1705575159	1.7492286739
N	2.8889281461	-0.2819064423	0.5884153583
C	2.599843579	0.4917145793	-0.4892007892
O	3.080330296	0.2422273818	-1.6004177841
C	1.7079242751	1.7119902584	-0.2629504657
N	0.9248243209	1.9880617462	-1.4552089785
N	1.5753892846	2.4848323361	-2.5938700014
C	2.3008178285	3.710173159	-2.2760970035
C	3.2760521691	3.4894752676	-1.1216614513
C	2.5408642059	2.9562466612	0.0989058039

C	-0.3627884966	1.5344071608	-1.5340700294
O	-0.8777313446	0.9392468241	-0.6001890388
C	-1.1255485692	1.8094615533	-2.8460638993
C	-1.516086255	3.2788852545	-2.9977522496
N	-2.2424267333	0.8810138702	-2.9142333536
C	-3.3026833263	0.9340157982	-2.0802185311
O	-3.7065160782	1.9622726614	-1.5414929865
C	-5.4913536066	-0.2420013089	-1.4565636473
C	-4.0265934886	-0.4317529522	-1.8920155076
N	-3.2755111207	-1.2674808915	-0.9355977046
N	-3.7830994788	-1.6948258058	0.2765950986
C	-5.0503175091	-1.8099364257	0.346096597
C	-6.0054087115	-1.5108844529	-0.7800919164
C	-2.044170653	-1.7614363962	-1.2512253582
O	-1.5817844908	-1.7029977892	-2.3851732248
C	-1.2660139684	-2.3947334513	-0.1068817646
O	0.0826884981	-2.540123828	-0.5252822418
O	-7.3151482036	-1.3328693864	-0.3175277506
C1	4.1119112747	5.034268031	-0.7186437958
C	1.4663718002	-3.2650704282	-3.2753642521
C	2.3570221216	-5.0968249041	-1.791942715
O	3.5689808753	-5.1412155062	-2.5068053181
O	-5.6999783155	0.7448631991	-0.4802027878
H	-5.4551564513	-2.1489104852	1.296042815
H	2.8491048065	-1.8695574323	-1.7831966195
H	4.4550445368	-1.1805522625	-0.387979992
H	5.4027703363	-0.8404172004	1.7254391441
H	5.1270976201	-2.5819293689	1.673832264
H	4.4493461582	-1.4844789963	3.8727780628
H	3.5718637291	0.6591088462	2.9624765281
H	2.2629723536	-0.1734830637	3.8059464762
H	1.4511294886	-0.9489279349	1.7470799725
H	1.0102748943	1.4976046606	0.5430631461
H	2.2379370816	1.7623498221	-2.8778135785
H	1.5783961603	4.4871557932	-2.0076685671
H	2.8299497499	4.0314101077	-3.1765439253
H	4.0638665592	2.7988021699	-1.4313977563
H	3.2402503412	2.7209717328	0.9053755676
H	1.8554830982	3.7265354087	0.4666578075
H	-0.4660483737	1.553673261	-3.6782515657
H	-2.0755164451	3.6351295666	-2.1343320142
H	-0.6127194583	3.8769039165	-3.1305887939
H	-2.1434489761	3.3956846848	-3.8848199284
H	-1.9591660483	-0.0743488036	-3.1261433582
H	-6.0786173961	-0.0282321639	-2.3614984255
H	-4.0245401597	-0.9600264933	-2.8521396933
H	-6.0147732033	-2.3550543884	-1.48122836
H	-1.686082206	-3.3603266318	0.1766349892
H	-1.2722851374	-1.7259461883	0.752255834
H	-7.3246309371	-0.4382342093	0.0614459903
H	2.3985021102	-3.3174718566	-3.8425535938
H	0.7449342877	-3.94840484	-3.7265700047
H	1.0511893649	-2.255349807	-3.3166186878
H	1.6722996478	-5.7921368269	-2.2771883208

H	2.484425039	-5.4093628969	-0.7499848295
H	4.1748512799	-4.534692652	-2.0603558228
H	-5.097357988	1.4895307053	-0.7042049464
H	3.1439186485	-2.3784534625	3.0856962262

Compound **1h**

1h conf_1

energy (M062X/6-31g(d,p)) = -2585.2815114 Hartree

C	0.7074163716	2.9001341837	0.2025650602
O	0.703962895	1.9416722495	0.9398588918
C	-0.5428774748	3.573099239	-0.353186929
N	-1.6106499302	2.5736590436	-0.236545067
C	-2.9237703481	2.834157957	-0.3225019608
O	-3.4145556568	3.9682099992	-0.3779351804
C	-3.8758342189	1.635562089	-0.3907017661
C	-5.1420579835	1.8844383588	0.4366424529
C	-4.8714342465	1.6857254914	1.9252592599
C	-4.2504553983	0.3127666356	2.1567647769
N	-3.0537278883	0.080026126	1.3423582559
N	-3.2761756263	0.364768087	-0.0103798555
C	-3.1135507922	-0.6241116621	-0.940404254
O	-3.3021537608	-0.4275221133	-2.1324935006
C	-2.8684417572	-2.0391310266	-0.3976789713
N	-1.5140940151	-2.3280046536	0.0820285119
N	-1.3240963598	-3.5995268935	0.6349409149
C	-1.6510286533	-4.645536424	-0.3273814694
C	-3.0322403391	-4.4902409375	-0.950244858
C	-3.2481618205	-3.0726766984	-1.4581670787
C	-0.4424921914	-1.5236036046	-0.0956901716
O	-0.5193134064	-0.4429644062	-0.6793186091
C	0.878220668	-1.9961080492	0.5110063265
C	0.8737939205	-1.7953164518	2.0309749235
N	1.9259243694	-1.215755714	-0.1157364637
C	3.1999712347	-1.6139013842	-0.1363324128
O	3.5767819648	-2.7089656793	0.3014605693
C	5.6506479345	-1.1058388535	-0.6560092958
C	4.2019472084	-0.6152459843	-0.7562894292
N	4.1010783011	0.7067182036	-0.1238969515
N	4.8910694002	1.1186368029	0.9161136335
C	5.81503329	0.3435488916	1.3339148556
C	6.1331640638	-1.0128759015	0.7876840706
C	3.1613560792	1.5913773527	-0.5671203359
O	2.4305554602	1.32248104	-1.5114054489
C	3.0339703061	2.9009172619	0.2006058515
O	1.8222036566	3.5322823673	-0.1897424612
O	7.5256184645	-1.2113643627	0.8833485607
Cl	-4.3034956107	-4.9082730044	0.2931008365
C	-0.3525045382	3.9838587577	-1.8151159034
C	-0.7758048488	4.8260114883	0.5512554285
O	-1.5583252873	5.8232813805	-0.033184325
O	5.8171199568	-2.4016147791	-1.1719334405
H	6.4162192836	0.7224886662	2.1557760858
H	-1.3185505807	1.5998155796	-0.2869813725
H	-4.1385999562	1.5359006367	-1.4477328335
H	-5.9069825867	1.1754120511	0.1021033103
H	-5.5042087102	2.8919225268	0.2262736344

H	-5.800800035	1.7771895918	2.4960249664
H	-4.9736913603	-0.4726974883	1.9098905089
H	-3.9521540113	0.1728828662	3.1989826902
H	-2.2875527222	0.6673209065	1.6666055412
H	-3.5208192446	-2.1530499664	0.4743666675
H	-1.9089970444	-3.6789669736	1.4646502234
H	-1.5474513317	-5.6085628847	0.1757730481
H	-0.9106100425	-4.6041511128	-1.1336029911
H	-3.1768214098	-5.2174224706	-1.7494516079
H	-4.2843370275	-2.9286322779	-1.769773575
H	-2.6189886591	-2.9269961514	-2.341957661
H	1.0411649635	-3.0503614532	0.286270219
H	0.1039656756	-2.4097962383	2.50059035
H	1.8456220369	-2.08931464	2.4335034789
H	0.6952264015	-0.7447383708	2.272717407
H	1.6446176631	-0.3426787868	-0.5547035787
H	6.2780907511	-0.4414972782	-1.2578684253
H	3.9366538226	-0.4792822348	-1.8075356476
H	5.5908655623	-1.7649440128	1.3824735555
H	3.8348781805	3.5906826459	-0.0656976387
H	3.056244599	2.7253334231	1.2751605411
H	7.6998880758	-2.0633627491	0.4562587696
H	0.4201417268	4.7486311596	-1.9032963227
H	-0.0662056703	3.1199659258	-2.4190512605
H	-1.2886215589	4.3927510105	-2.1968359114
H	0.2016785276	5.2731610758	0.748136379
H	-1.1853711955	4.4738592959	1.5088767734
H	-2.4122044945	5.378227623	-0.220779501
H	5.1664236659	-2.9426029759	-0.6817145481
H	-4.1916569663	2.4650815218	2.2929096317

1h conf_2

energy (M062X/6-31g(d,p)) = -2585.2748786 Hartree

C	-1.1456659491	-0.4534718169	0.8347665295
O	-0.7338331029	0.1694597015	1.7911745294
C	-1.5245913399	0.1876662505	-0.4945423352
N	-1.5716826846	1.6169456838	-0.214149799
C	-1.5575970547	2.585389154	-1.1557228702
O	-1.8604778059	2.4177340532	-2.3323919945
C	-1.1270998666	3.968667543	-0.650205253
C	-0.3489500333	4.7490475181	-1.7195034671
C	1.0657407123	4.1953363595	-1.916680581
C	1.7842464984	4.0051024399	-0.5828066452
N	0.9171142965	3.1874561338	0.2688716059
N	-0.2919768007	3.8613510731	0.5412113353
C	-0.512303329	4.6923140974	1.6042870628
O	-1.5779974587	5.2927583562	1.7372671449
C	0.5518359633	4.7846658148	2.6967014576
N	0.0895416226	4.0195790532	3.8561732971
N	-0.9317246392	4.556921652	4.6476057134
C	-0.5750638516	5.8820896119	5.1454127581
C	-0.2591099087	6.8221117621	3.9892620205

C	0.8375750186	6.2392030719	3.1121157434
C	0.4960365765	2.7312212985	4.0208539342
O	1.21447252	2.1727376133	3.1935978898
C	0.1188667692	2.0384497421	5.3215242417
C	1.3459439166	2.042904544	6.2396421619
N	-0.3247435404	0.6837066998	5.0220360611
C	-1.0411423114	-0.0021018967	5.9192477969
O	-1.371398807	0.4714119762	7.0157924826
C	-1.1711210079	-2.3809130671	6.7673577748
C	-1.4749523972	-1.4359003893	5.5925107699
N	-0.8483324034	-1.9751341028	4.3959925796
N	0.3773761999	-2.5916521927	4.4198285758
C	0.928270728	-2.8139704487	5.5502081668
C	0.3433345164	-2.4980895592	6.8969209874
C	-1.5344607929	-1.9656762774	3.2025771989
O	-2.6902563574	-1.5903189237	3.1308782499
C	-0.7499329601	-2.4274742287	1.9819597066
O	-1.2537500122	-1.7803041427	0.8136192418
O	0.7148715874	-3.5238091224	7.7876882971
C1	0.2701510242	8.4281337372	4.6382761113
C	-2.8442859058	-0.3462291214	-1.0461377182
C	-0.3428220434	-0.1002981306	-1.4543128318
O	0.8801849854	0.3479101958	-0.9230264554
O	-1.7694168914	-1.9968259898	7.9748572509
H	1.8988334324	-3.3011091267	5.5151328757
H	-1.2278946606	1.8684834102	0.7055468909
H	-2.0225512108	4.5213206563	-0.3578368379
H	-0.2976565133	5.7929887441	-1.3918806222
H	-0.9087390272	4.7207550518	-2.6561727037
H	1.6426806182	4.8679919722	-2.5577179904
H	2.0133259295	4.9759304035	-0.1179384416
H	2.7214349202	3.4592404578	-0.7156117021
H	1.3232293847	2.8606083772	1.1440676561
H	1.4933989053	4.339689975	2.3852571445
H	-1.7672775027	4.6209843587	4.0663972744
H	0.2916800521	5.7818662776	5.8049746469
H	-1.4176009414	6.2508640039	5.7338849085
H	-1.1573607954	7.0221018208	3.4069868174
H	1.7760237735	6.2369452775	3.6751768038
H	0.9881865671	6.850520715	2.2190513927
H	-0.7021762302	2.5651304745	5.8036517059
H	1.6468121482	3.0686083916	6.4692151807
H	1.1001435509	1.5377320432	7.1752878276
H	2.1817210762	1.52874422	5.7592903122
H	-0.0787006889	0.2791952573	4.125789416
H	-1.5618964486	-3.3705815699	6.50859723
H	-2.5516125608	-1.4109401726	5.4104492007
H	0.7441734473	-1.5297103392	7.2420883439
H	-0.8986568416	-3.4944886509	1.8147293205
H	0.3136142598	-2.2249954048	2.0902049936
H	0.2435289741	-3.3352566861	8.6133707453
H	-3.0747739371	0.1730174196	-1.977427441
H	-2.775719416	-1.4181508139	-1.2403327067
H	-3.6554516423	-0.168691701	-0.336131785

H	-0.5740275805	0.3652980478	-2.4188627862
H	-0.2576008001	-1.1791736217	-1.6020742218
H	0.781019553	1.2831512897	-0.6493835315
H	-1.6976747242	-1.0189873539	8.0003871033
H	1.0146912495	3.2258110689	-2.4249057469

1h conf_3

energy (M062X/6-31g(d,p)) = -2585.273408 Hartree

C	0.0011959305	-0.6672637412	0.7364472608
O	0.6927685993	-0.4509005121	1.715705646
C	0.206997789	0.0668781377	-0.5956287872
N	-0.372347561	1.389811354	-0.4072022134
C	-1.580957006	1.8885386546	-0.7464477351
O	-2.4416852715	1.3112425007	-1.3969283819
C	-1.8579519634	3.3123511673	-0.2186915972
C	-2.3473675332	4.2551767576	-1.3228214334
C	-1.1892785303	4.842909954	-2.1243039056
C	-0.1707271075	5.4640689749	-1.1754398798
N	0.3257101935	4.5060105246	-0.1834805667
N	-0.7333866565	3.8957477737	0.510977271
C	-0.7409614593	3.9059073664	1.874333097
O	-1.6992747924	3.4749913844	2.5129599457
C	0.521130155	4.4065093791	2.5843652936
N	0.7282616629	3.5844707355	3.7732985549
N	-0.1268811068	3.7626463256	4.8697663924
C	-0.132659372	5.1546437518	5.3048569105
C	-0.5105763043	6.0816036928	4.1537875703
C	0.4401263919	5.8884210984	2.9840342131
C	1.5316122883	2.4876493335	3.709213531
O	2.1946750618	2.2361798548	2.7060075274
C	1.5530706369	1.5592453171	4.9273260886
C	2.8946318074	0.8532184394	5.0515205094
N	0.457477953	0.6100009012	4.7614652415
C	-0.4131069647	0.3387304305	5.7431629829
O	-0.3619252361	0.8632254522	6.8615693986
C	-1.9763160588	-1.4557288565	6.6539700438
C	-1.5605868135	-0.6353266025	5.4242663457
N	-1.249071119	-1.5592001282	4.3392650315
N	-0.6446109334	-2.7720606608	4.5537021246
C	-0.4416586977	-3.1539143137	5.7549985048
C	-0.8418671008	-2.413460641	6.9970715503
C	-1.6052736405	-1.2403923671	3.0503147617
O	-2.1979978506	-0.2079512112	2.7896353163
C	-1.1936517444	-2.2292266247	1.9695294273
O	-1.0071522767	-1.5327405429	0.7359617186
O	-1.2311465745	-3.3595975652	7.9654605449
Cl	-0.4633121252	7.8033075058	4.7114717844
C	-0.3310695558	-0.6963774263	-1.7956678691
C	1.7309678062	0.3004184661	-0.7677302199
O	2.2344467823	1.3282755551	0.0480025222
O	-2.3498232561	-0.6718510893	7.7544963975
H	0.0431988659	-4.1197851978	5.8674144527

H	0.2190686534	1.967862942	0.175651199
H	-2.6511385483	3.1796065226	0.5204728312
H	-2.9102856815	5.067133131	-0.8502405695
H	-3.0400897395	3.7006399438	-1.959477461
H	-1.560980349	5.5974338336	-2.8243576467
H	-0.6153343351	6.3043023102	-0.6314872206
H	0.705568991	5.8386874822	-1.7103410413
H	0.8611494819	3.7789469644	-0.6571488684
H	1.3810024304	4.2639907082	1.935479439
H	-1.0582377524	3.4928485592	4.5536092714
H	0.8626268852	5.4095129744	5.6811559165
H	-0.8465854798	5.2401823722	6.1266965864
H	-1.5448793079	5.9035628985	3.8535735729
H	1.442563988	6.2133857631	3.2799139161
H	0.1346730509	6.4864945997	2.1222394593
H	1.3224306321	2.1281937556	5.8260013676
H	3.6956073877	1.5831992139	5.1957088271
H	2.8770814169	0.1827108821	5.9137747886
H	3.1175735443	0.2743506108	4.153016938
H	0.4098566351	0.0990798536	3.886334614
H	-2.8469564126	-2.0582526208	6.3752671898
H	-2.4029828286	-0.0238787203	5.0904209215
H	0.0192202008	-1.8267144172	7.3586746224
H	-1.9982604421	-2.9415434133	1.7852436507
H	-0.2875287262	-2.7671497487	2.2378992345
H	-1.5873464855	-2.8436702989	8.7046771892
H	0.2368898546	-1.6234942061	-1.9138189983
H	-1.3853455346	-0.9369731876	-1.6863383087
H	-0.2034747946	-0.0941285189	-2.6975645881
H	1.8997742541	0.6192065671	-1.798938793
H	2.257782831	-0.6488724252	-0.6106082216
H	2.1785672092	1.0641763221	0.9831588036
H	-1.6648712634	0.0280372912	7.8052533893
H	-0.7017870773	4.0627287469	-2.7229173823

1h conf_4

energy (M062X/6-31g(d,p)) = -2585.2730414 Hartree

C	-1.0566504223	-0.2101980607	0.6725559379
O	-0.6882070505	0.5405082824	1.5424805927
C	-1.8426278685	0.2079063572	-0.5728585381
N	-1.7038963069	1.647086459	-0.7551623421
C	-0.5043491958	2.2770289534	-0.8212126321
O	0.5595030019	1.6788746525	-0.9680567677
C	-0.554518864	3.79950626	-0.6727439722
C	-0.0554102519	4.5611803108	-1.9077432816
C	1.4634311782	4.5199885433	-2.057391693
C	2.1252126487	4.9012851793	-0.7370897038
N	1.6632013107	4.0684319497	0.3782268855
N	0.2652721591	4.1419493501	0.4940466754
C	-0.310537737	4.2709192708	1.7162099915
O	-1.5322580888	4.2282061396	1.8655218368
C	0.629229926	4.4801635871	2.9093956541

N	0.008599782	3.9129373791	4.0994560717
N	-1.0810070544	4.5802034962	4.6806291694
C	-0.7312472569	5.9615465149	4.9959984468
C	-0.2300459436	6.6886447512	3.7519324992
C	0.9628890462	5.9609577579	3.1545542669
C	0.2887957483	2.6336678595	4.4534750967
O	1.1406072403	1.9678846035	3.8701680783
C	-0.4653308734	2.0327123949	5.638254297
C	0.2890074816	2.3274129044	6.9372092933
N	-0.5457275182	0.6100715362	5.3490736719
C	-1.3406431478	-0.2345847087	6.0043181618
O	-2.0303044218	0.0796191744	6.9844961739
C	-0.9633153429	-2.6535697227	6.6358106276
C	-1.3954178022	-1.6883499702	5.5212054242
N	-0.592729969	-1.944973822	4.3325290944
N	0.7089024168	-2.3749283731	4.3807219606
C	1.2311567649	-2.6163326017	5.5211094343
C	0.5384764959	-2.4969651987	6.847714055
C	-1.1702400474	-1.8120235887	3.0894621199
O	-2.3489780115	-1.5353246801	2.9641423615
C	-0.2416295509	-2.0131511874	1.8979666521
O	-0.8746450198	-1.5396577487	0.7150637647
O	1.0525785648	-3.4887418345	7.7042732925
C1	0.2304436841	8.3869214567	4.1777624409
C	-3.3224683398	-0.093429421	-0.3115309281
C	-1.368464683	-0.5427464905	-1.8368709803
O	-2.1025587625	-0.1479438514	-2.9724495321
O	-1.6778920133	-2.4786616194	7.8296523608
H	2.2640039119	-2.9529571641	5.5082647632
H	-2.5001839265	2.2072537645	-0.4874396446
H	-1.5690343272	4.1193618904	-0.4349402409
H	-0.3800733269	5.6016759249	-1.7945407622
H	-0.5541136843	4.1649147371	-2.7974381576
H	1.7763233562	5.2093149595	-2.8479126985
H	1.9108512641	5.9446363868	-0.4821035299
H	3.2111619234	4.7858488918	-0.7863732635
H	1.8772400069	3.0928689711	0.163657167
H	1.5534374051	3.9367144046	2.7318759342
H	-1.8233921369	4.5652475011	3.980242408
H	0.0434507237	5.9616815637	5.7685765142
H	-1.6237784644	6.4446962004	5.3989659528
H	-1.038262716	6.783739436	3.0237964253
H	1.7999364731	6.0084295141	3.8582015582
H	1.2823719653	6.4267051603	2.2196340193
H	-1.4740783933	2.440330126	5.7027391709
H	0.3061979524	3.4033366171	7.1269809737
H	-0.2142167929	1.8336210205	7.769889488
H	1.3172071935	1.9622067335	6.872360098
H	0.0243306998	0.2934679158	4.5732763033
H	-1.144525186	-3.6765282377	6.2884120722
H	-2.4372485587	-1.8811613961	5.2588127189
H	0.7353868679	-1.4929833588	7.2618422301
H	-0.0536621075	-3.0743696988	1.7327061369
H	0.7092654127	-1.505418665	2.0544627147

H	0.5238567971	-3.435455171	8.5146860806
H	-3.9027243515	0.1771450408	-1.195844489
H	-3.4568416414	-1.1579265599	-0.1143953592
H	-3.6910034355	0.4664674296	0.5522254964
H	-1.5472589805	-1.6098613843	-1.7011836114
H	-0.2949374433	-0.3819467693	-1.9744053414
H	-1.9340816819	0.7957735202	-3.1050594733
H	-1.908040292	-1.527357785	7.8799944659
H	1.7882295876	3.5164962357	-2.3492721383

1h conf_5

energy (M062X/6-31g(d,p)) = -2585.2730379 Hartree

C	-2.1924671693	-0.5428905496	0.9174146607
O	-3.0943830982	0.1493944588	1.3293783369
C	-1.070084391	-0.0759666766	-0.0064820627
N	-1.3104359747	1.3372854258	-0.25721473
C	-0.4210844303	2.1297120116	-0.8962010389
O	0.5226892343	1.70790733	-1.5637521779
C	-0.6220610184	3.6290720362	-0.6582159788
C	-0.2353841223	4.5190702522	-1.8413450289
C	1.2752887292	4.6610993616	-2.0261804189
C	1.9412705367	4.9927166218	-0.6954162391
N	1.589452626	4.0399375817	0.3626434104
N	0.1970339468	3.9727052294	0.5134218544
C	-0.3389669084	3.9174262236	1.7576727624
O	-1.5363051798	3.6836385975	1.9296018409
C	0.6063429009	4.2015494357	2.9351235011
N	-0.0376930392	3.7906015717	4.1691290125
N	-1.1454770585	4.5312871003	4.6060022571
C	-0.7928121067	5.9381178278	4.7731307907
C	-0.1970833769	6.5101625865	3.4898930085
C	0.9972892444	5.6871562881	3.0353329853
C	0.3567869498	2.6691101878	4.8376833194
O	1.3602983268	2.0415508501	4.5255655249
C	-0.5171014817	2.2543312786	6.0282054283
C	0.0564502215	2.8145335561	7.3245105918
N	-0.5861926782	0.8081495628	6.1070718179
C	-1.0022298208	0.0688422353	5.0746131806
O	-1.2727883186	0.5419588379	3.9689099674
C	-0.0823918979	-2.1594242369	6.0648114464
C	-1.2287421757	-1.4309506959	5.3677537864
N	-1.5045932235	-2.1133019771	4.1137987124
N	-0.5248947867	-2.6940993412	3.3612657362
C	0.6714505586	-2.7062815833	3.8116447967
C	1.1205825162	-2.1525725477	5.1407930617
C	-2.7658366653	-1.9976578168	3.5742379698
O	-3.7032735028	-1.5964435127	4.2412231035
C	-2.9613609749	-2.4259451127	2.1237340102
O	-2.0355630003	-1.8371918135	1.212563226
O	2.1147550204	-2.9522823267	5.7473101691
Cl	0.298573216	8.2316663364	3.7594415052
C	-1.1134970167	-0.9011326172	-1.299488738

C	0.2968218731	-0.2764249317	0.7055710084
O	0.5474111149	0.6684970026	1.7114701892
O	0.1902272922	-1.5562124451	7.3075742447
H	1.4088693881	-3.1975618857	3.1824622674
H	-1.9536947359	1.7818258526	0.3884451527
H	-1.656238462	3.8225622669	-0.3719491309
H	-0.6715477719	5.5073184519	-1.6565316888
H	-0.7042436424	4.1264403913	-2.7482777679
H	1.48708283	5.4501893623	-2.7549818026
H	1.6430420761	5.9886224978	-0.3495945316
H	3.0312161634	4.982740278	-0.7795945921
H	1.9101327964	3.1084534601	0.0943530992
H	1.5059024046	3.5994758383	2.8208750051
H	-1.8601662921	4.4240978762	3.8862629308
H	-0.0683648379	6.0243035386	5.5886266643
H	-1.6991849129	6.4772949138	5.0573235062
H	-0.961649791	6.5547110994	2.7106762429
H	1.8000063153	5.7781777122	3.7738172417
H	1.3783225157	6.040121348	2.0759623614
H	-1.5234978737	2.6456537475	5.8756009704
H	0.0473967063	3.9057431395	7.2969435961
H	-0.5443451922	2.4908257502	8.1787780696
H	1.0870269679	2.4781713008	7.4682405716
H	-0.2732438324	0.3211233926	6.9408312822
H	-0.3892478466	-3.204109581	6.2115326954
H	-2.129582423	-1.5050986837	5.9817654665
H	1.4756490074	-1.1188334796	5.0192951072
H	-3.982027145	-2.1550997492	1.8562488919
H	-2.8172257503	-3.5012073781	2.0207155014
H	2.9796904517	-2.6692350935	5.4229514218
H	-0.903281585	-1.9513521327	-1.0878928897
H	-2.0974530377	-0.8284047399	-1.7697180424
H	-0.36344375	-0.5154736189	-1.9901674964
H	1.0761545242	-0.1411888147	-0.0451214006
H	0.3430830132	-1.3064529771	1.0756300278
H	-0.0533624132	0.5330362283	2.4667598106
H	1.0659892561	-1.8756186108	7.5770335752
H	1.6902159873	3.7280466954	-2.4155029202

1h conf_6

energy (M062X/6-31g(d,p)) = -2585.2712264 Hartree

C	-0.8230106155	-0.5276974048	0.7222696989
O	-0.1857986111	0.0544601049	1.5754269414
C	-1.4375280256	0.1578045486	-0.4964824348
N	-1.0472906671	1.5547171045	-0.3352910353
C	-1.0992056194	2.5429388788	-1.2313797499
O	-1.4994424221	2.4350151558	-2.3978424555
C	-0.6718100646	3.9257876178	-0.7282949256
C	0.2438518885	4.6528385706	-1.7270395496
C	1.6787658189	4.1221544265	-1.6892859586
C	2.1980719489	4.0493477948	-0.2552319186
N	1.2410877526	3.2608564314	0.5118221284

N	-0.0116163004	3.8952006654	0.5694997556
C	-0.4535393538	4.6849434585	1.5892289466
O	-1.5763271167	5.1923455762	1.5803973283
C	0.4541198209	4.8613373176	2.8064365166
N	-0.0774801134	4.0702783707	3.9180605368
N	-1.2195314192	4.5334393382	4.583111204
C	-1.0247195929	5.8872632372	5.0931945815
C	-0.6518153091	6.8391575615	3.9638938283
C	0.5802318999	6.3354402234	3.2299900252
C	0.3980109267	2.8167817811	4.1444583177
O	1.2325562794	2.2985109036	3.4030869841
C	-0.0537145262	2.1074356712	5.4111899897
C	1.051150672	2.2522489183	6.4636358312
N	-0.3151282468	0.7110060705	5.0909595556
C	-1.0536095828	-0.0400611519	5.913784331
O	-1.5404486259	0.3998696582	6.9651609767
C	-0.9715363809	-2.4353908467	6.7319733356
C	-1.3311343207	-1.5034662343	5.5610597895
N	-0.6510759121	-1.9815664495	4.3636352941
N	0.569599801	-2.6092000904	4.3905807848
C	1.1273397013	-2.8175276191	5.5199674498
C	0.5467805059	-2.4731822147	6.8601969609
C	-1.3069788882	-1.9096910662	3.1573347763
O	-2.4182245679	-1.418374475	3.0684139083
C	-0.5731071035	-2.4684906934	1.9454036949
O	-1.0772531022	-1.8338139766	0.7701863677
O	0.9662223139	-3.4446202724	7.7879415057
Cl	-0.3281769565	8.4878829469	4.6403164105
C	-2.9629923048	0.0038085507	-0.4411741816
C	-0.866748603	-0.4867439584	-1.7903431426
O	-1.6158412091	-0.1925170645	-2.9343896478
O	-1.5883918923	-2.0910018174	7.9415814068
H	2.09483464	-3.3107089269	5.4870158409
H	-0.591584455	1.7574187947	0.5471790241
H	-1.5938374595	4.4962997856	-0.5940561268
H	0.2370670488	5.7155904495	-1.4613027134
H	-0.1838771496	4.5593657941	-2.7272876768
H	2.3272400679	4.7627518954	-2.2941939988
H	2.3333342173	5.061322673	0.160384831
H	3.1594020565	3.5315830817	-0.2124533826
H	1.5241361695	2.9667621135	1.4432044238
H	1.4580195208	4.4923275468	2.612852289
H	-1.9849544654	4.527351738	3.9094281713
H	-0.2337929408	5.8618533039	5.8481234465
H	-1.9546657952	6.1937906834	5.5762856584
H	-1.4893434128	6.9615129458	3.2786340369
H	1.4436402331	6.4086909288	3.8986852435
H	0.7890461412	6.9493325154	2.3504468907
H	-0.9760797183	2.5483728919	5.7840073947
H	0.7533357261	1.7285339467	7.3735158383
H	1.9873577501	1.828620309	6.0923288343
H	1.2119931174	3.3058290475	6.7066756982
H	0.0943208715	0.3253041001	4.2487165292
H	-1.3063715987	-3.4445024732	6.4685243976

H	-2.404502359	-1.5667726347	5.3689519511
H	0.9054208917	-1.473700855	7.1615358042
H	-0.7959005084	-3.5292968161	1.8275339916
H	0.5026563607	-2.3303122014	2.0231666235
H	0.472139249	-3.2573316701	8.6007732214
H	-3.2444464558	-1.0453626773	-0.5481395034
H	-3.3515245702	0.3819864658	0.5069450869
H	-3.4075280837	0.5687290246	-1.2609687703
H	-0.8888725131	-1.5711996538	-1.6643524129
H	0.1843078711	-0.1771250968	-1.8872758244
H	-1.6412659852	0.7882189701	-2.9814015213
H	-1.646431302	-1.1117553382	7.9461300204
H	1.7144149638	3.1159937906	-2.1220574795