

**Supporting Information For:**

**Potent Inhibitors of Pro-Inflammatory Cytokine Production Produced  
by a Marine-Derived Bacterium**

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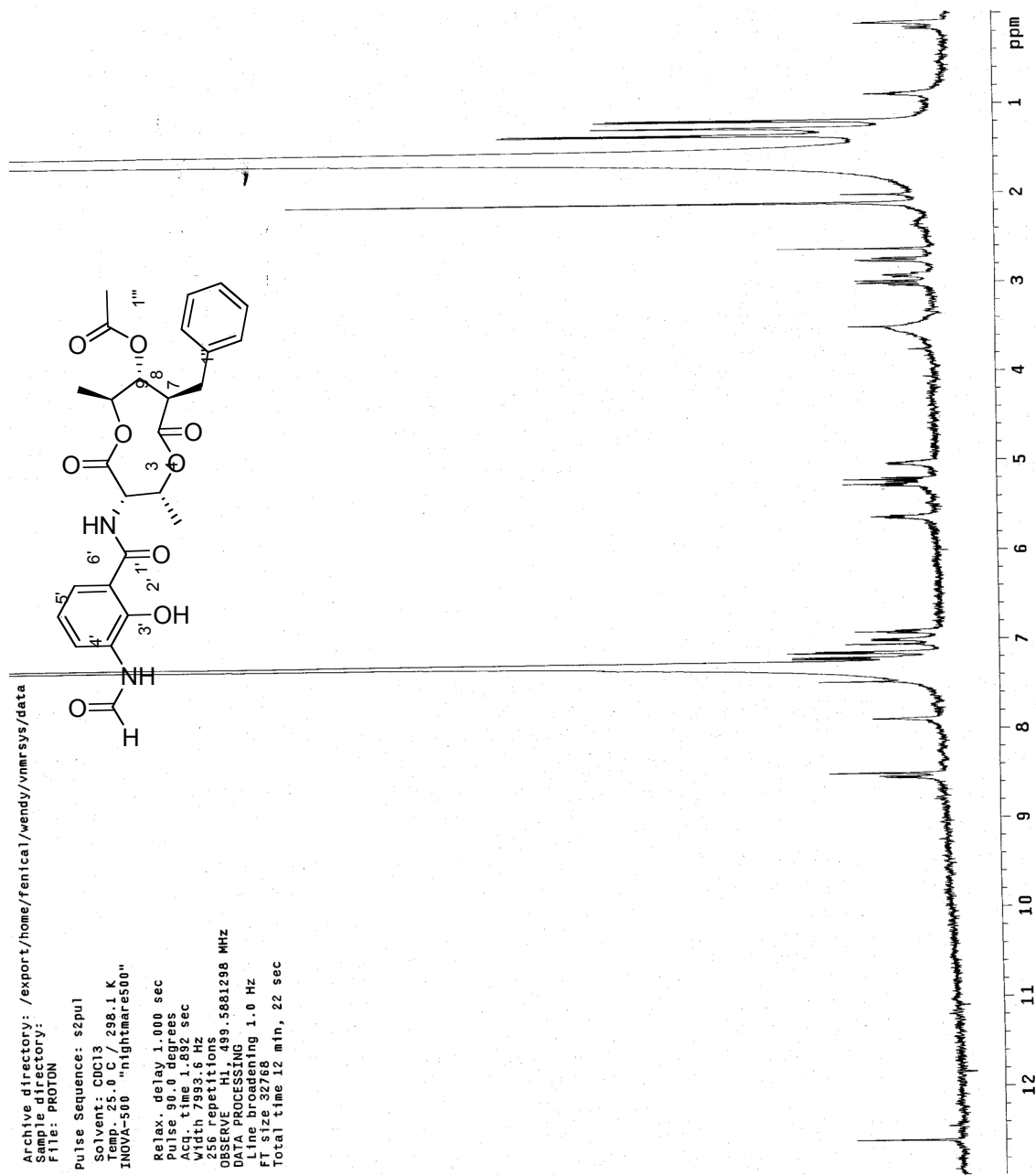
\*Corresponding Author: [wfenical@ucsd.edu](mailto:wfenical@ucsd.edu)

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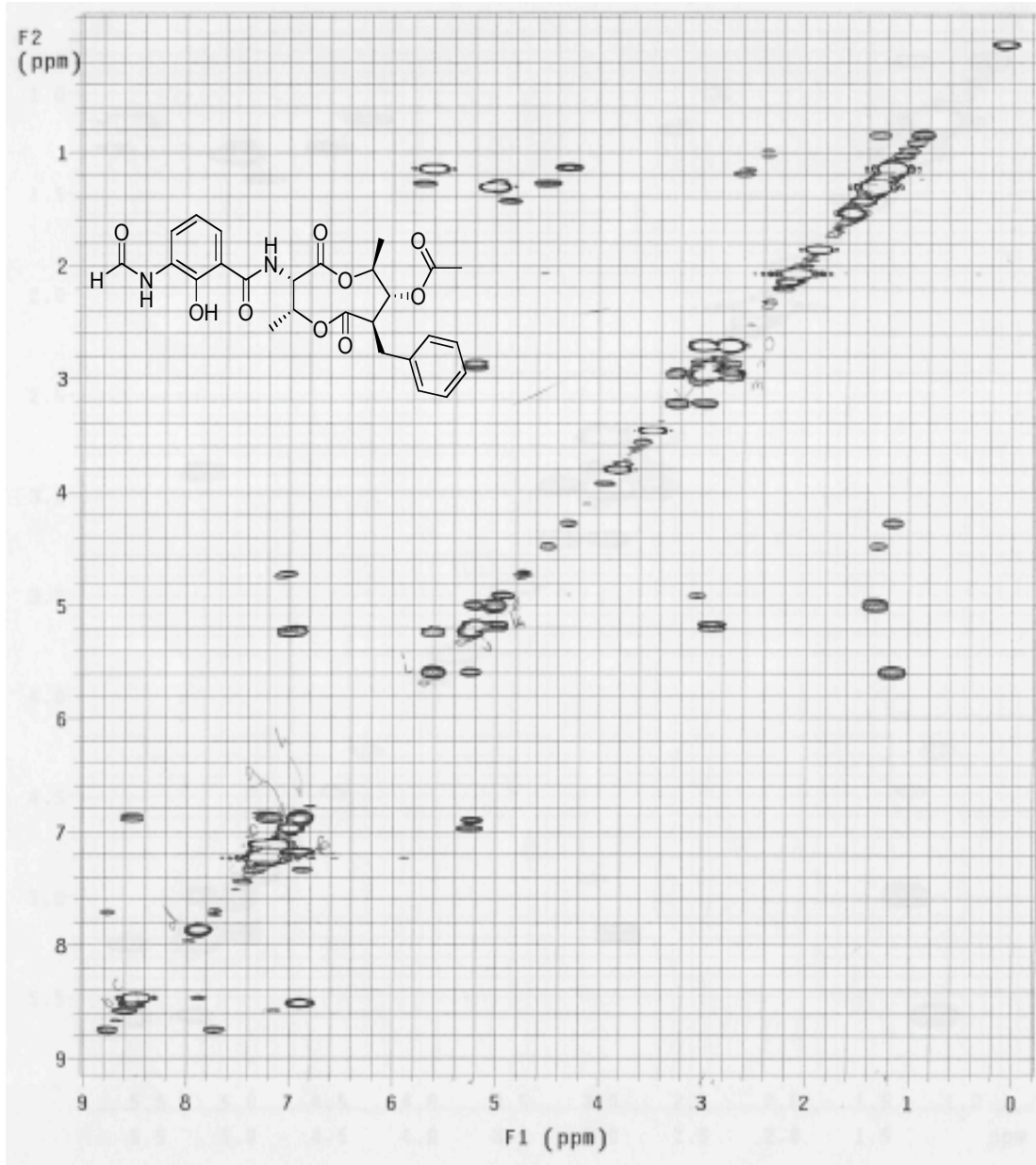
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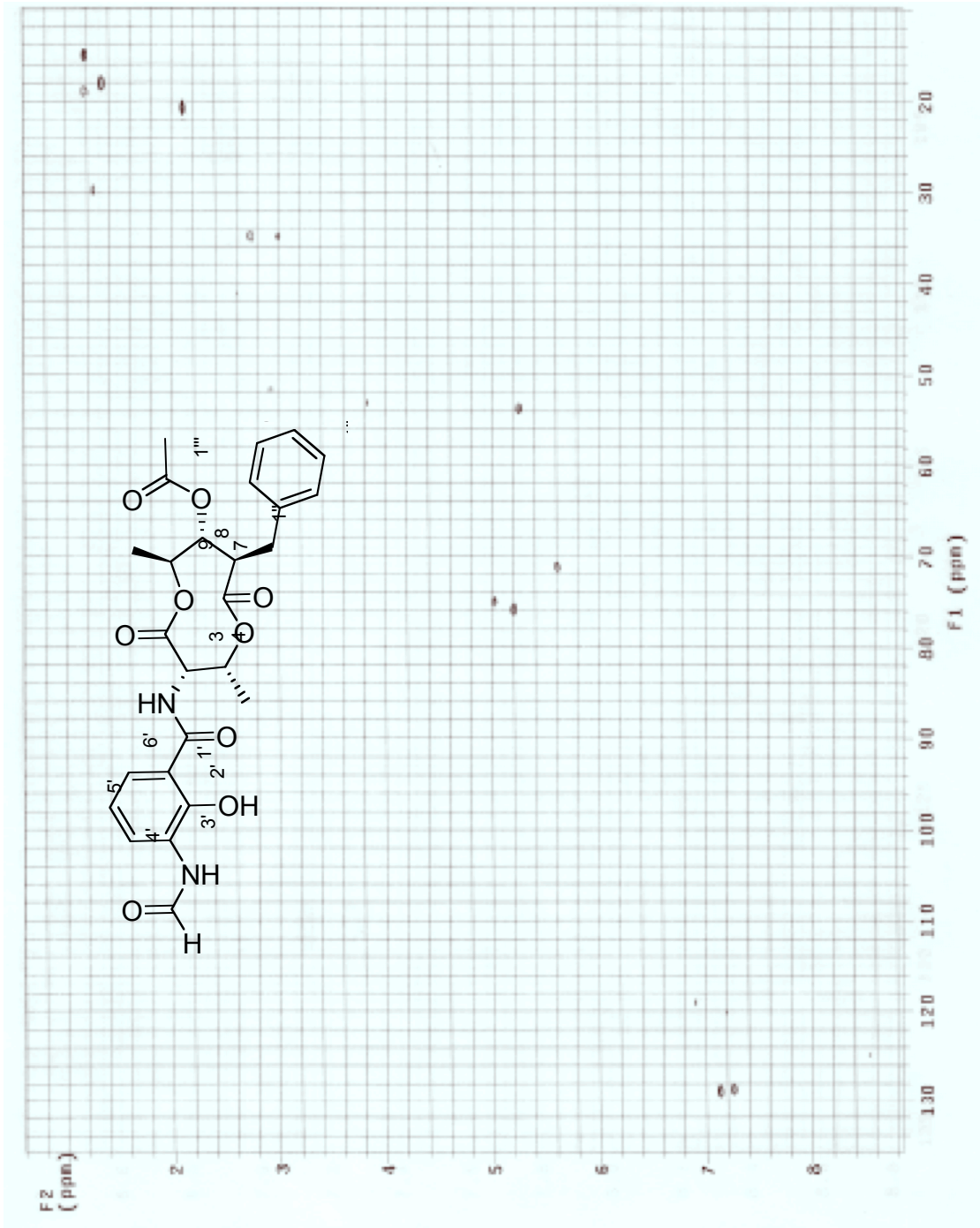
S1.  $^1\text{H}$  NMR Spectrum for Splenocin A (1) in  $\text{CDCl}_3$ .



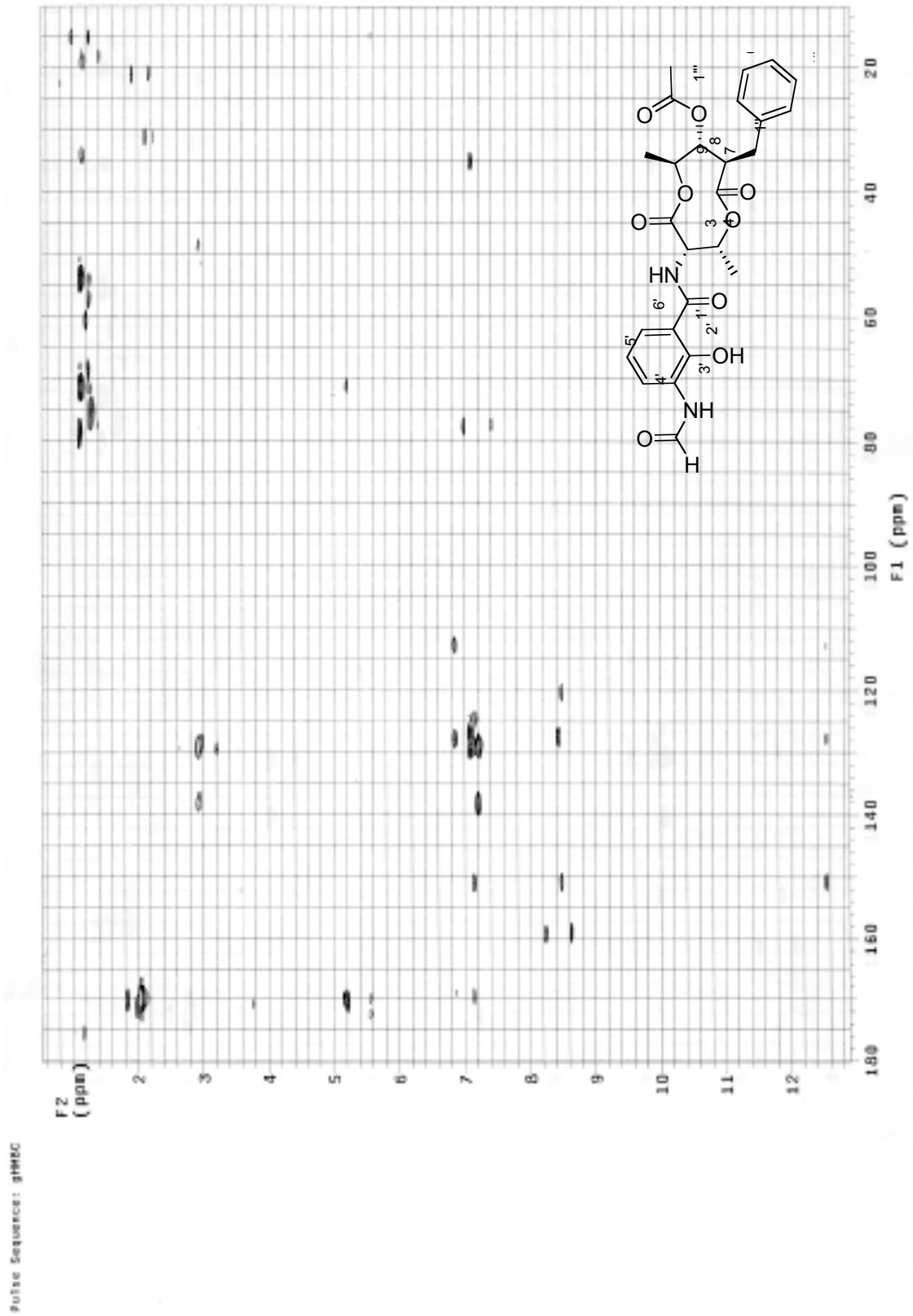
S2. gCOSY for Splenocin A (1) in CDCl<sub>3</sub>.



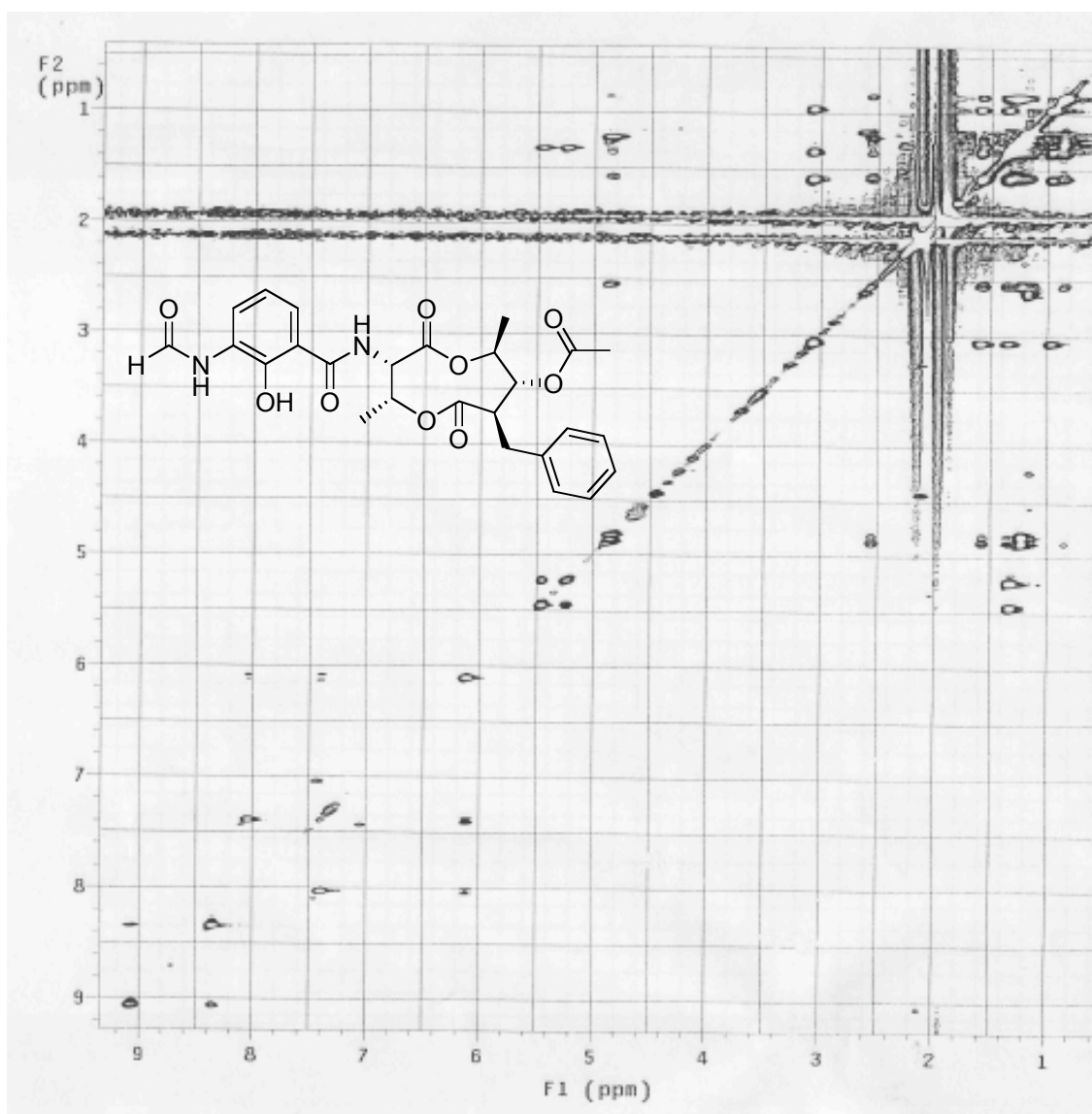
S3. gHSQC for Splenocin A (1) in CDCl<sub>3</sub>.



S4. gHMBC for Splenocin A (1) in CDCl<sub>3</sub>.

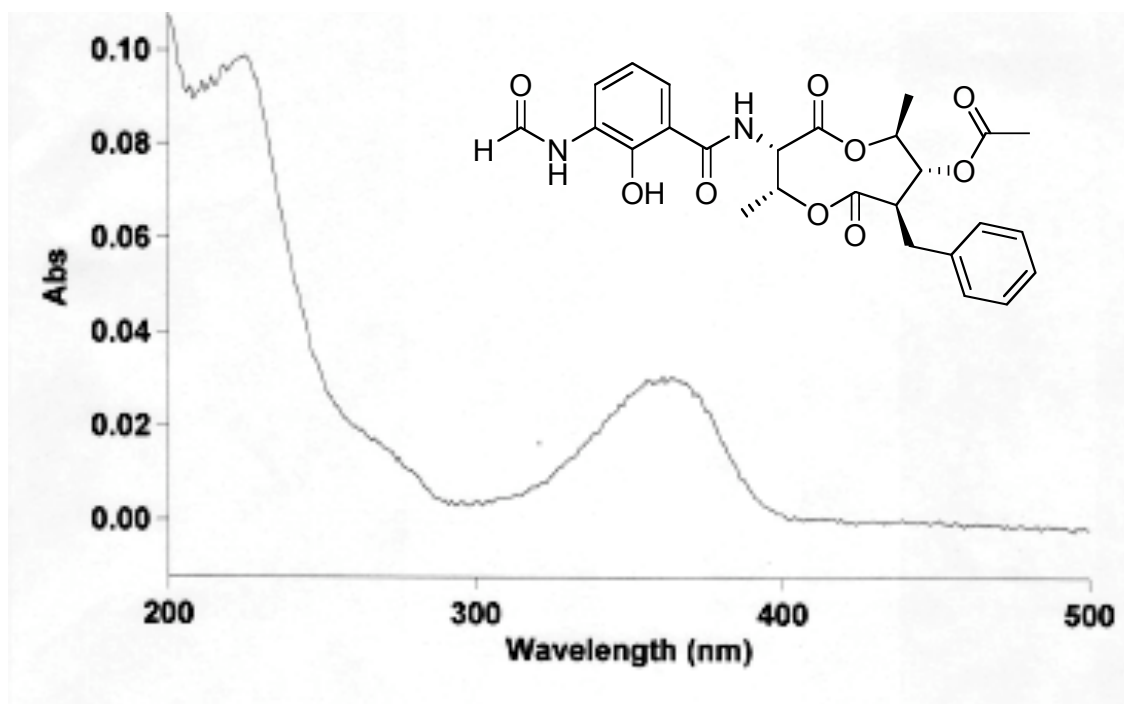


S5. TOCSY for Splenocin A (1) in CDCl<sub>3</sub>.



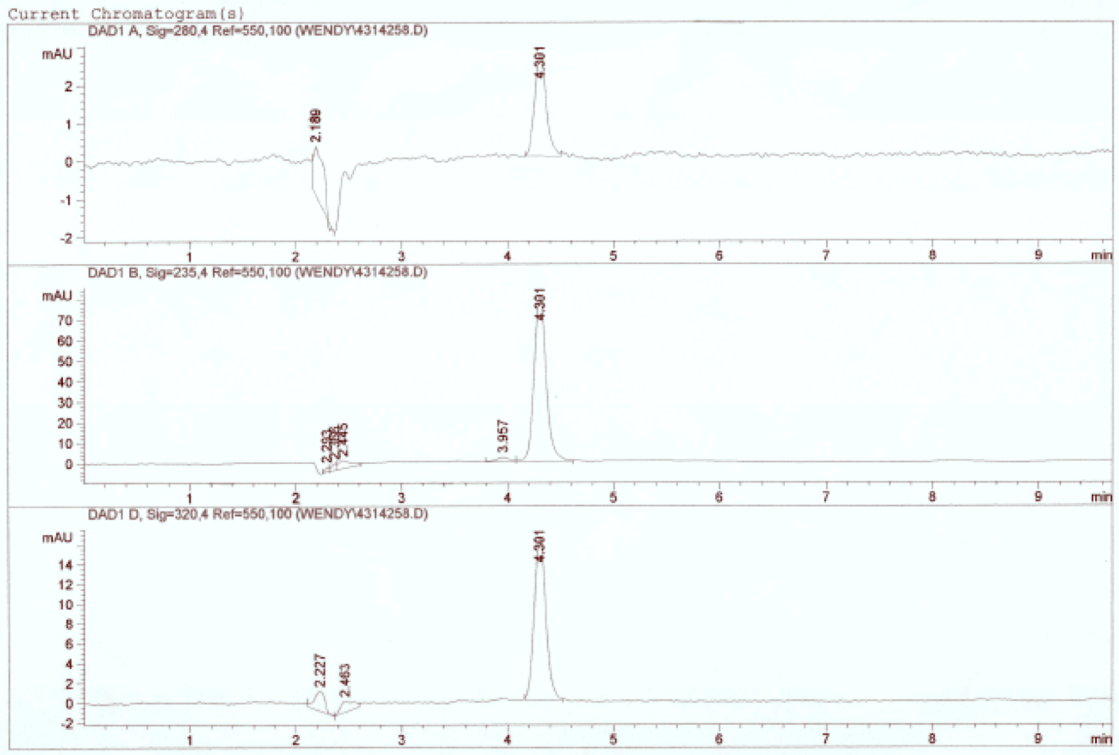


S6. Splenocin A (1) UV spectrum in MeCN





S8. LCMS Trace for Splenocin A (1).

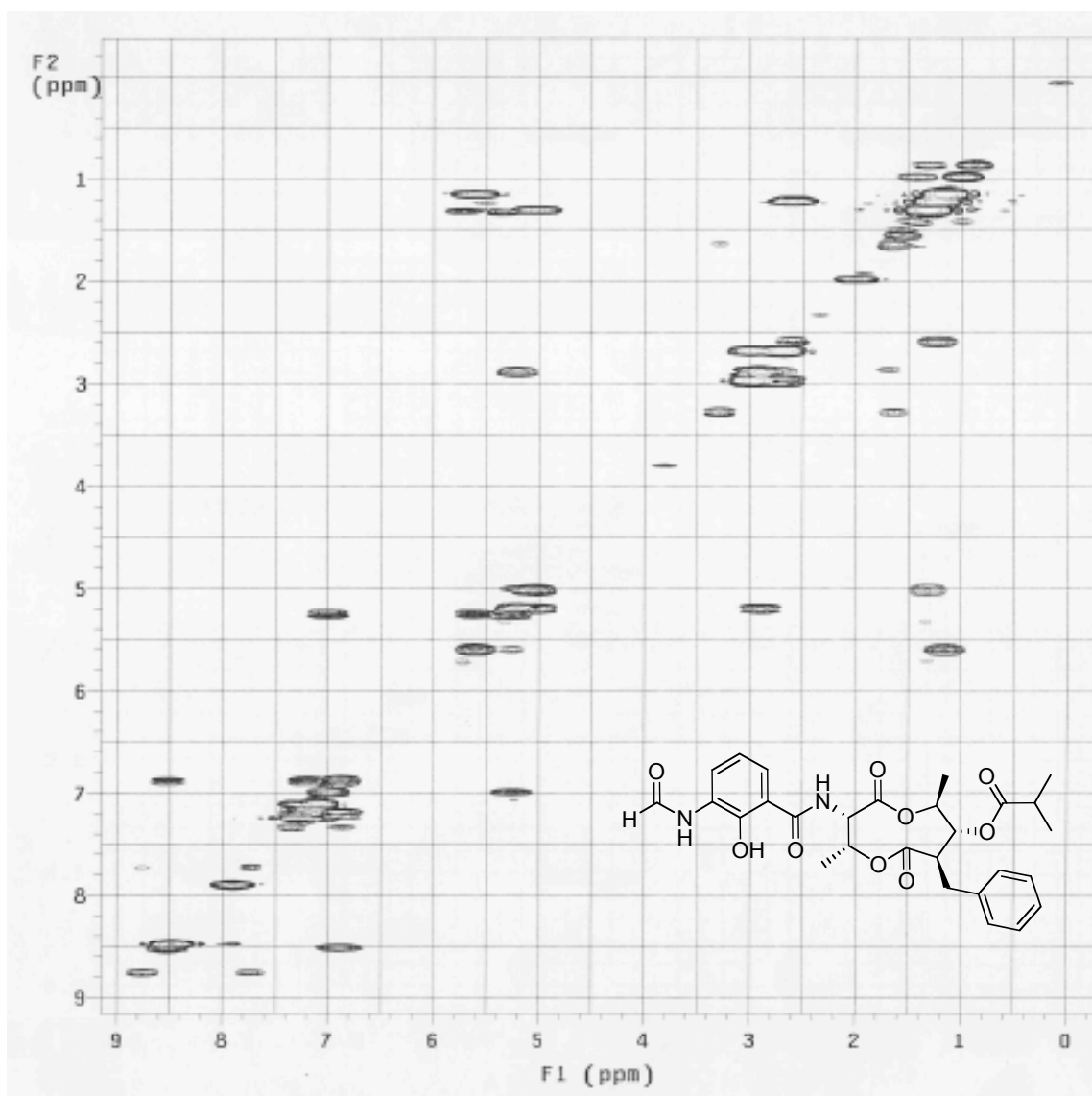




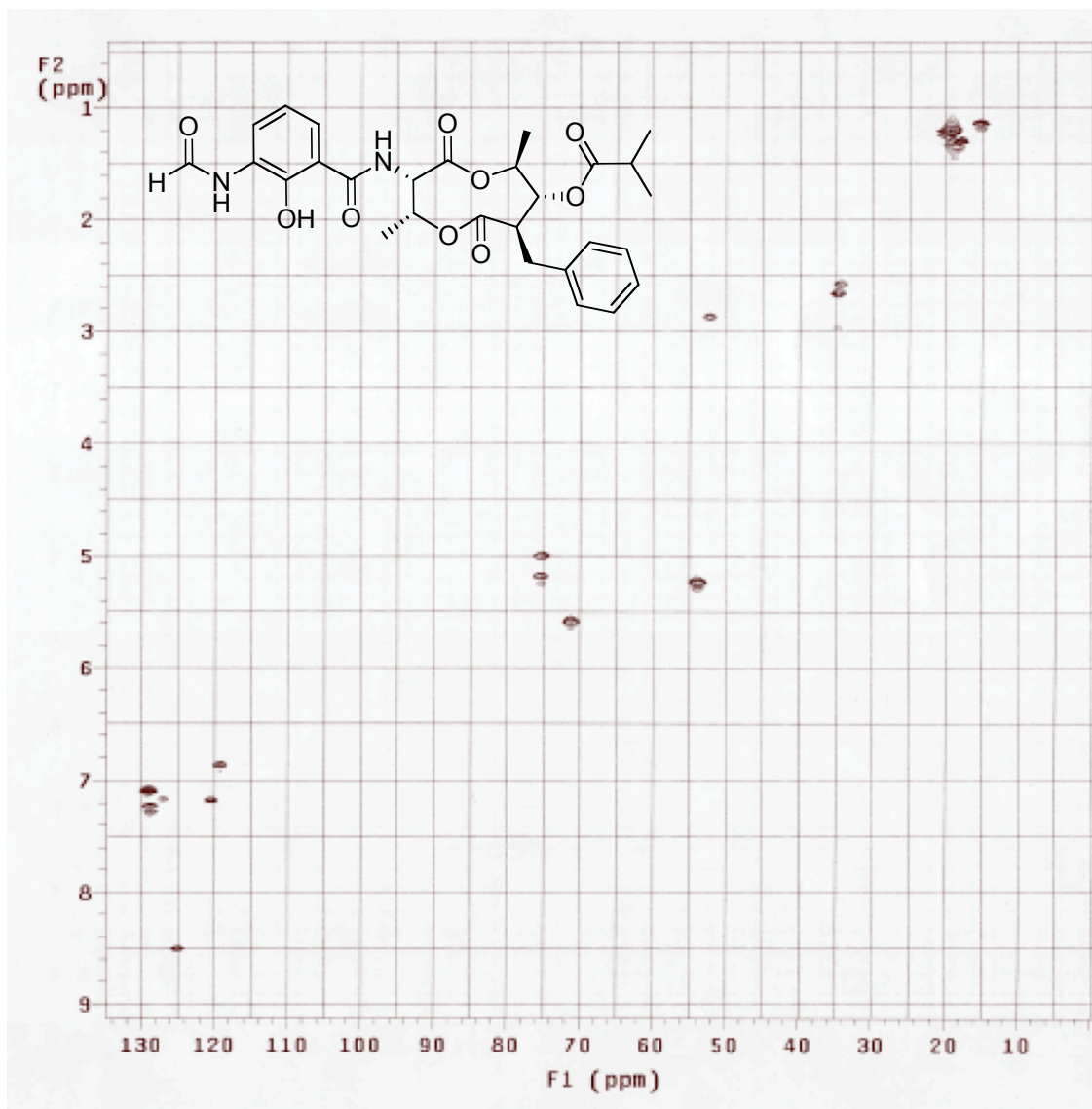
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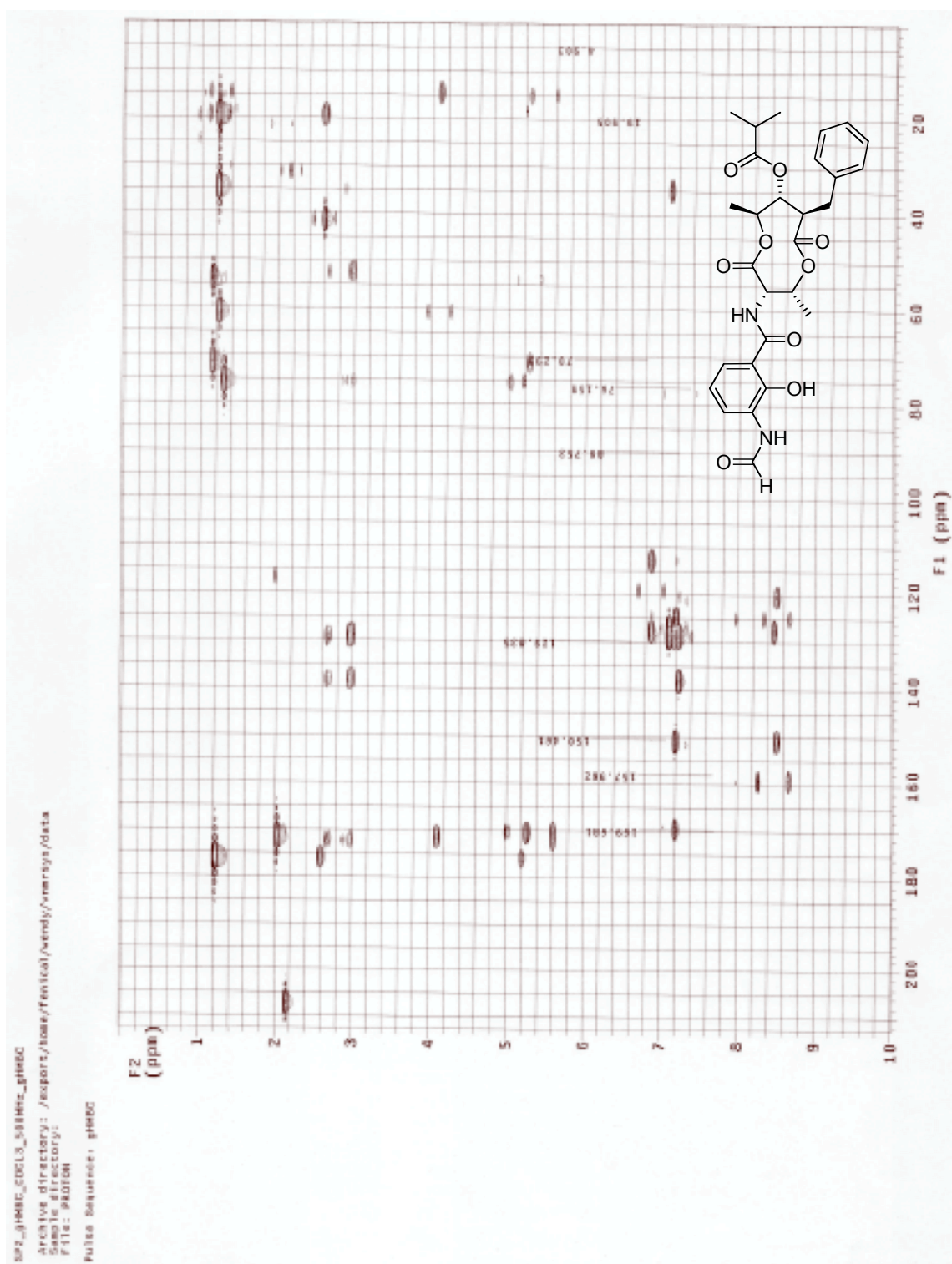
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S12. gHSQC for Splenocin B (**2**) in CDCl<sub>3</sub>.

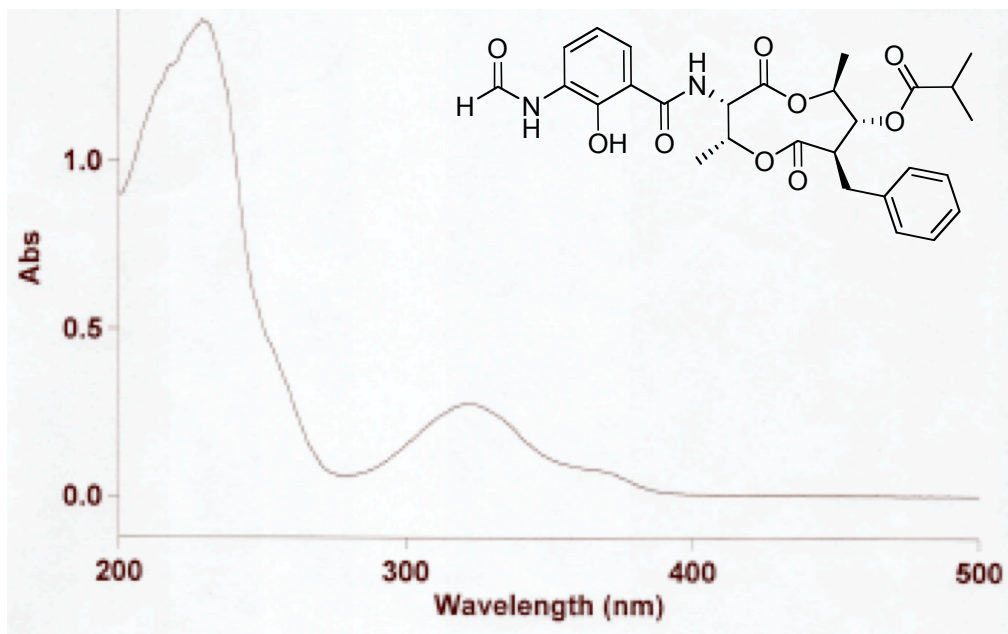


S13. gHMBC spectrum for Splenocin B (2) in CDCl<sub>3</sub>.

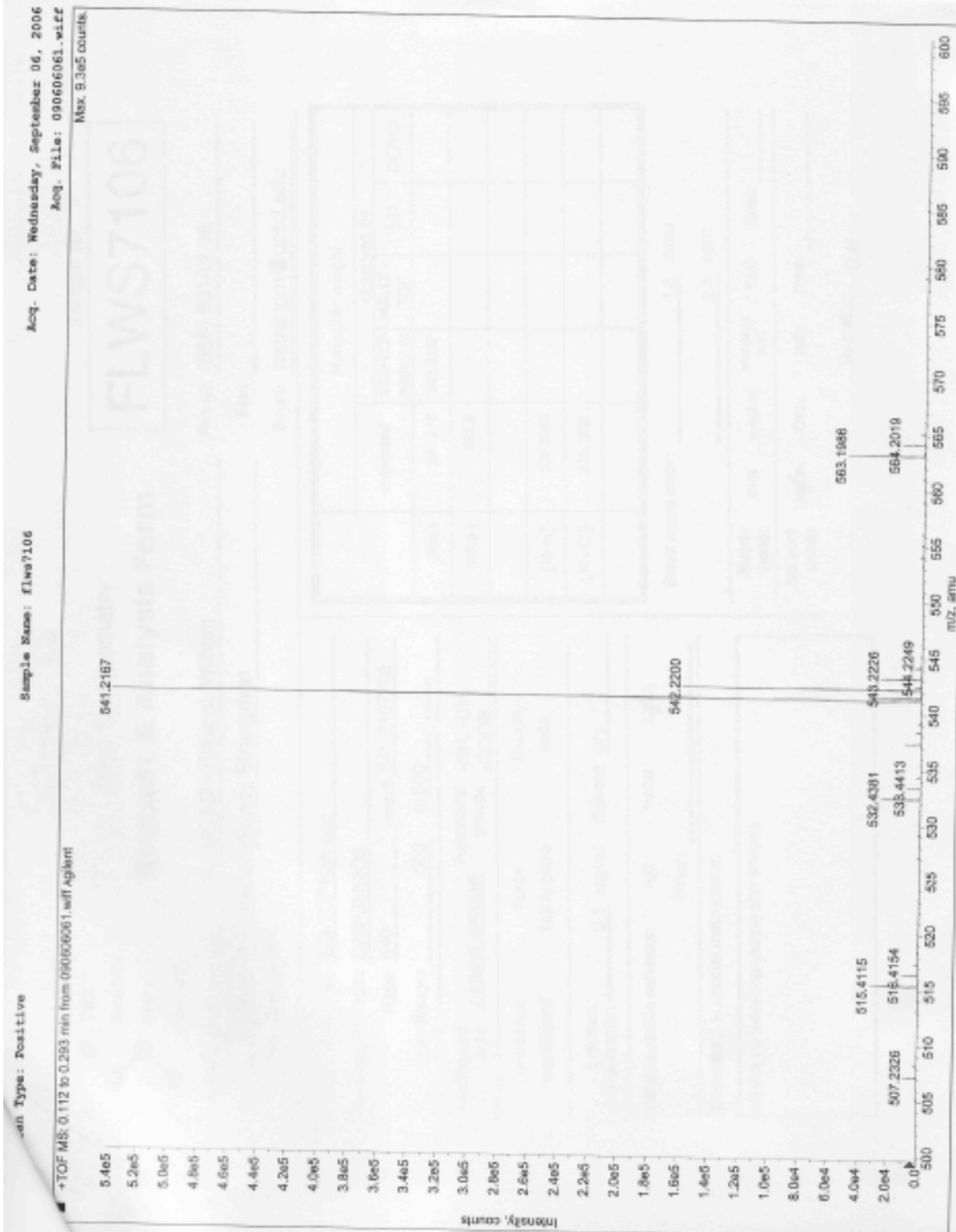




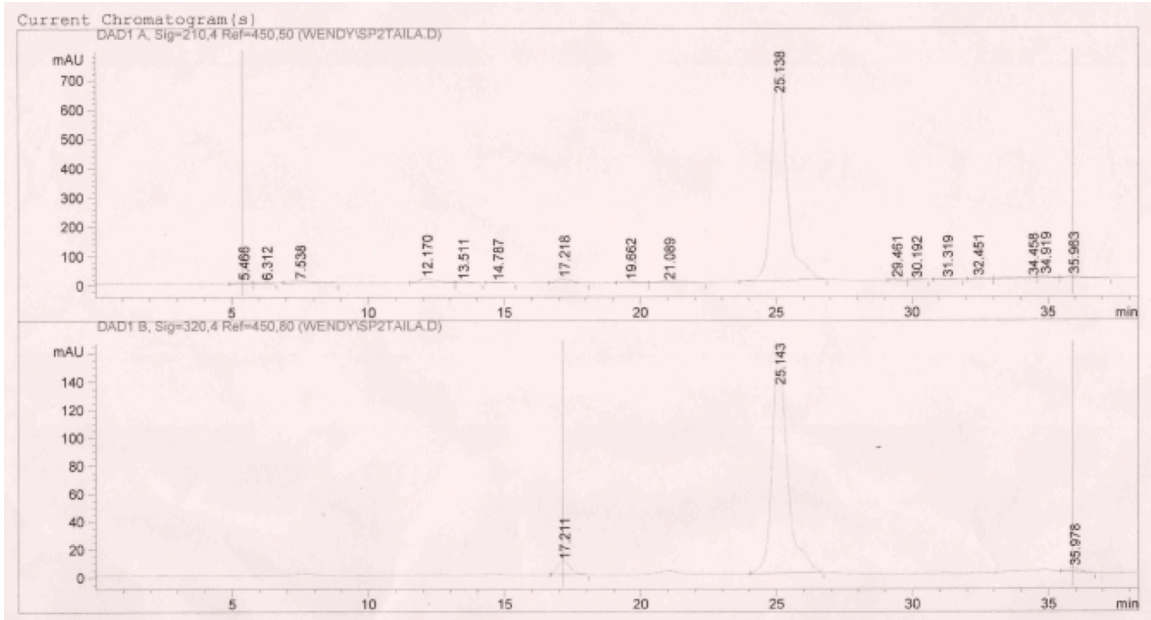
S14. UV Spectrum for Splenocin B (2) in MeCN



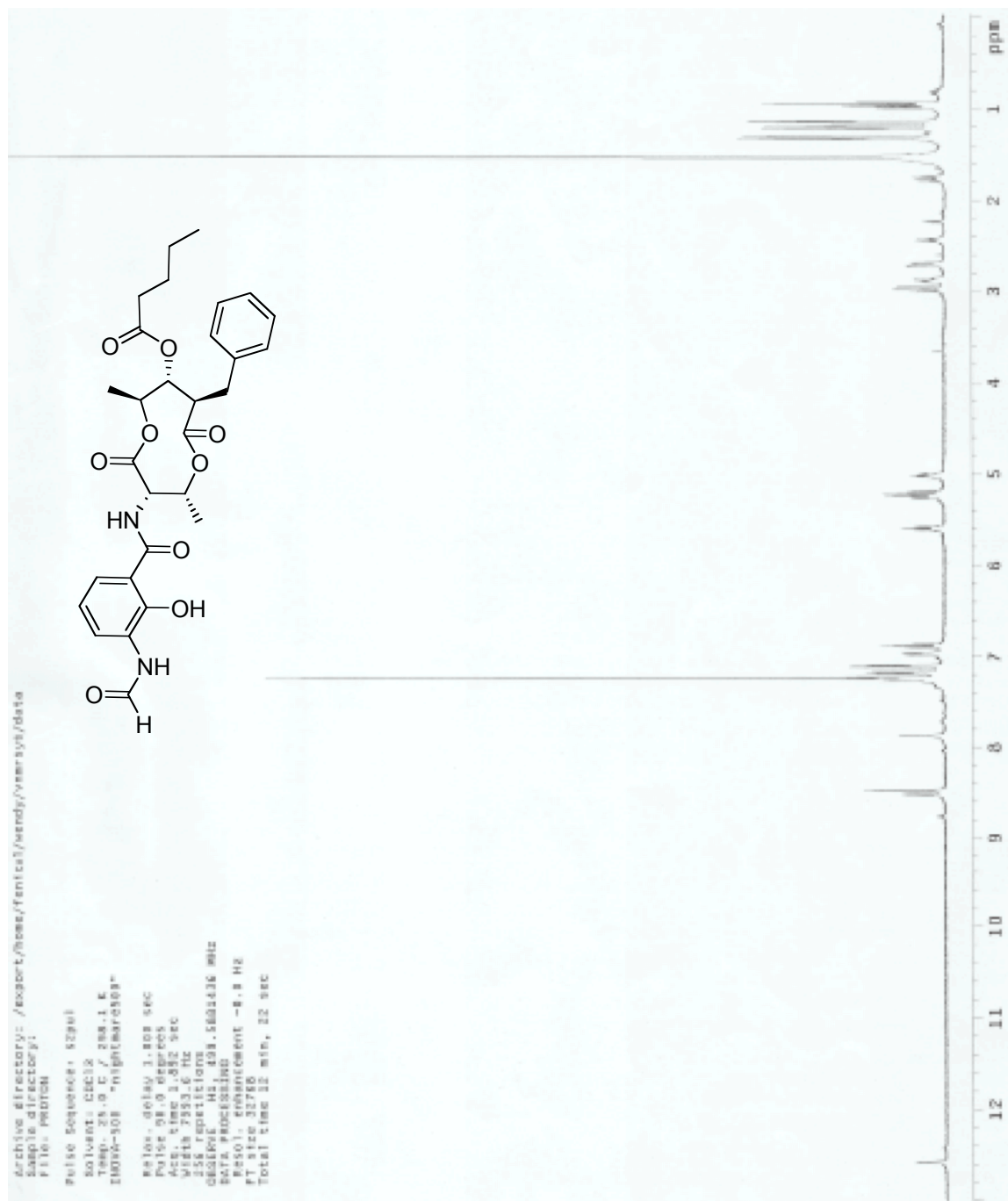
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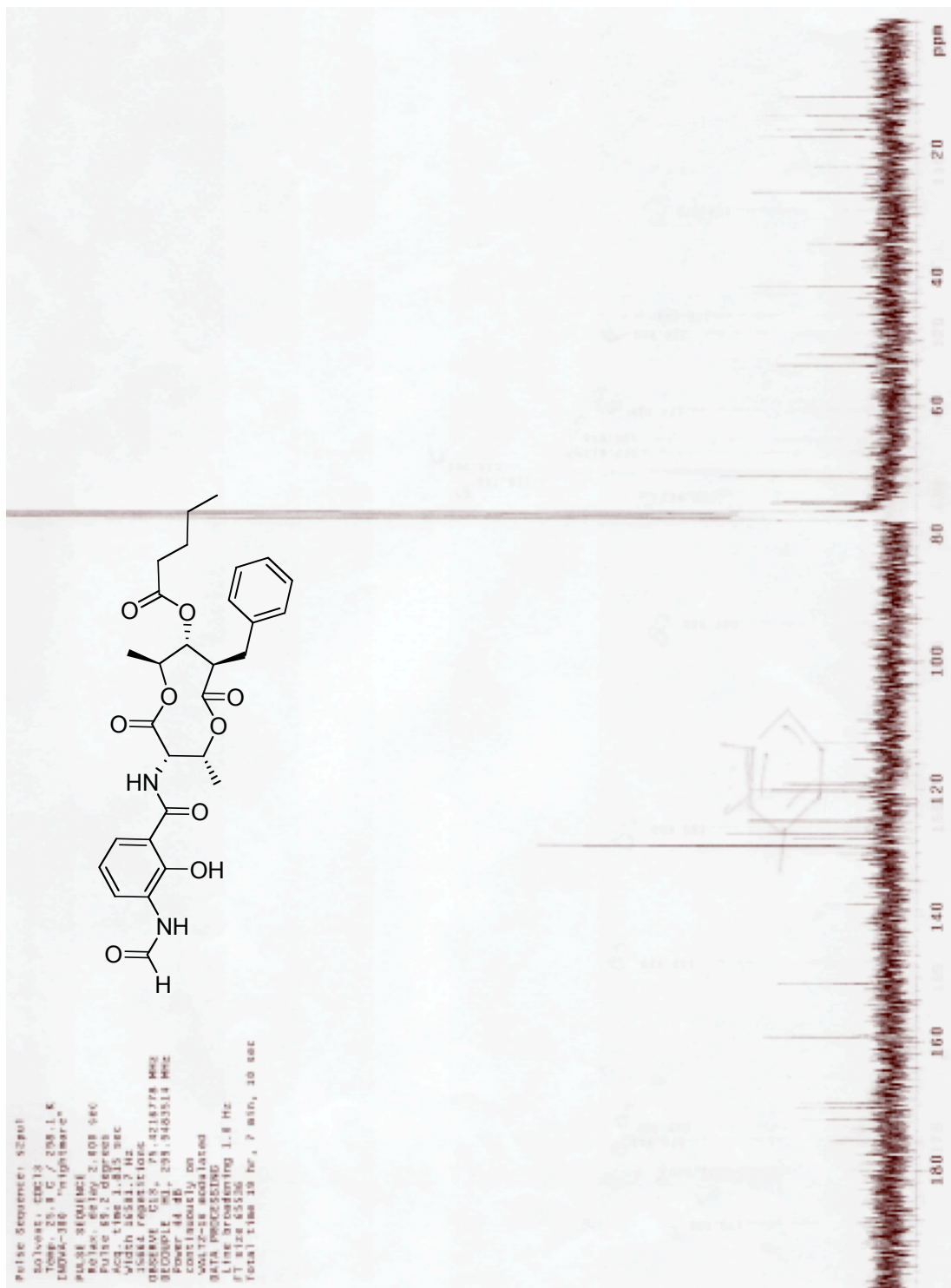
S16. LCMS Trace for Splenocin B (2).



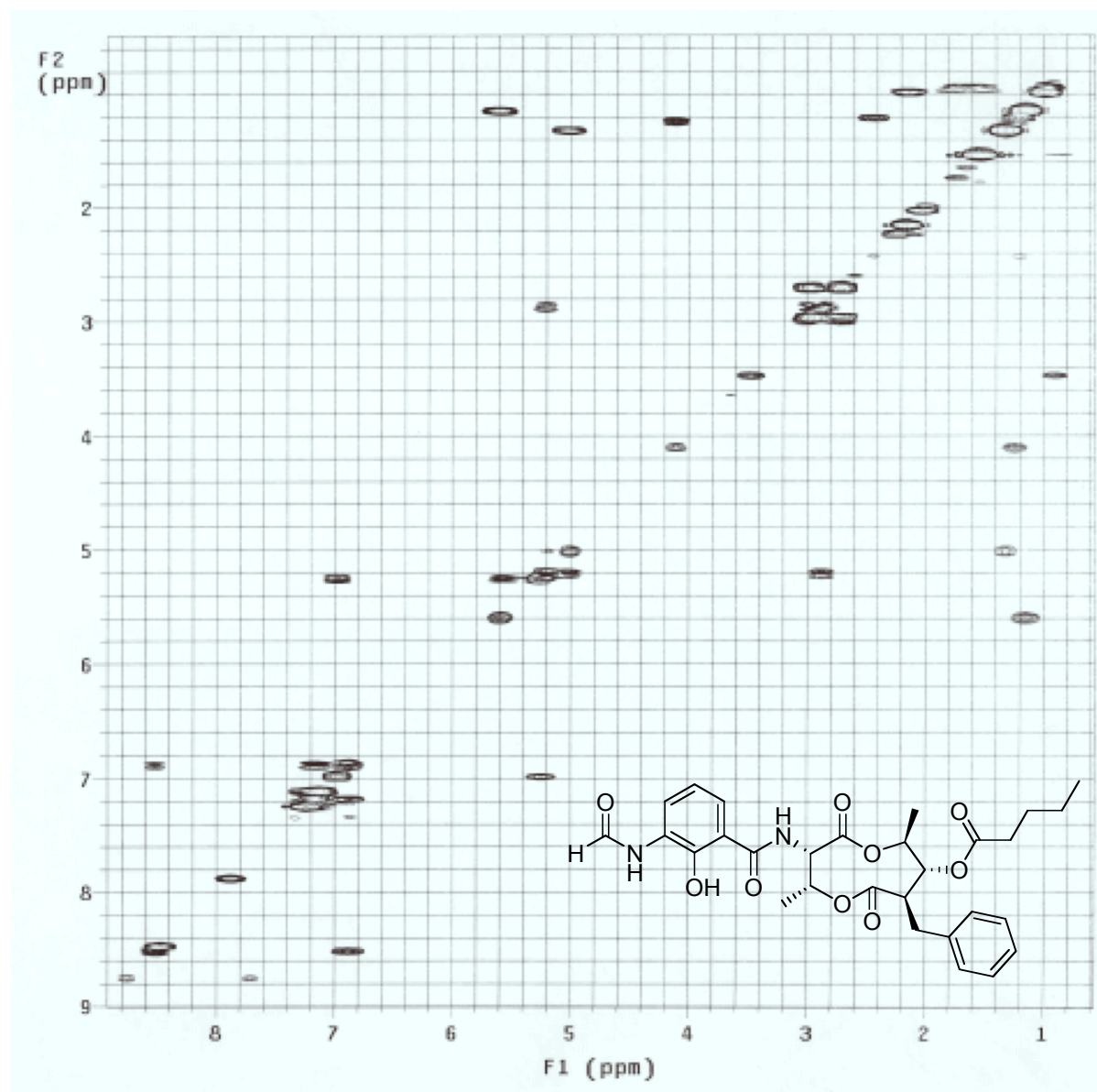
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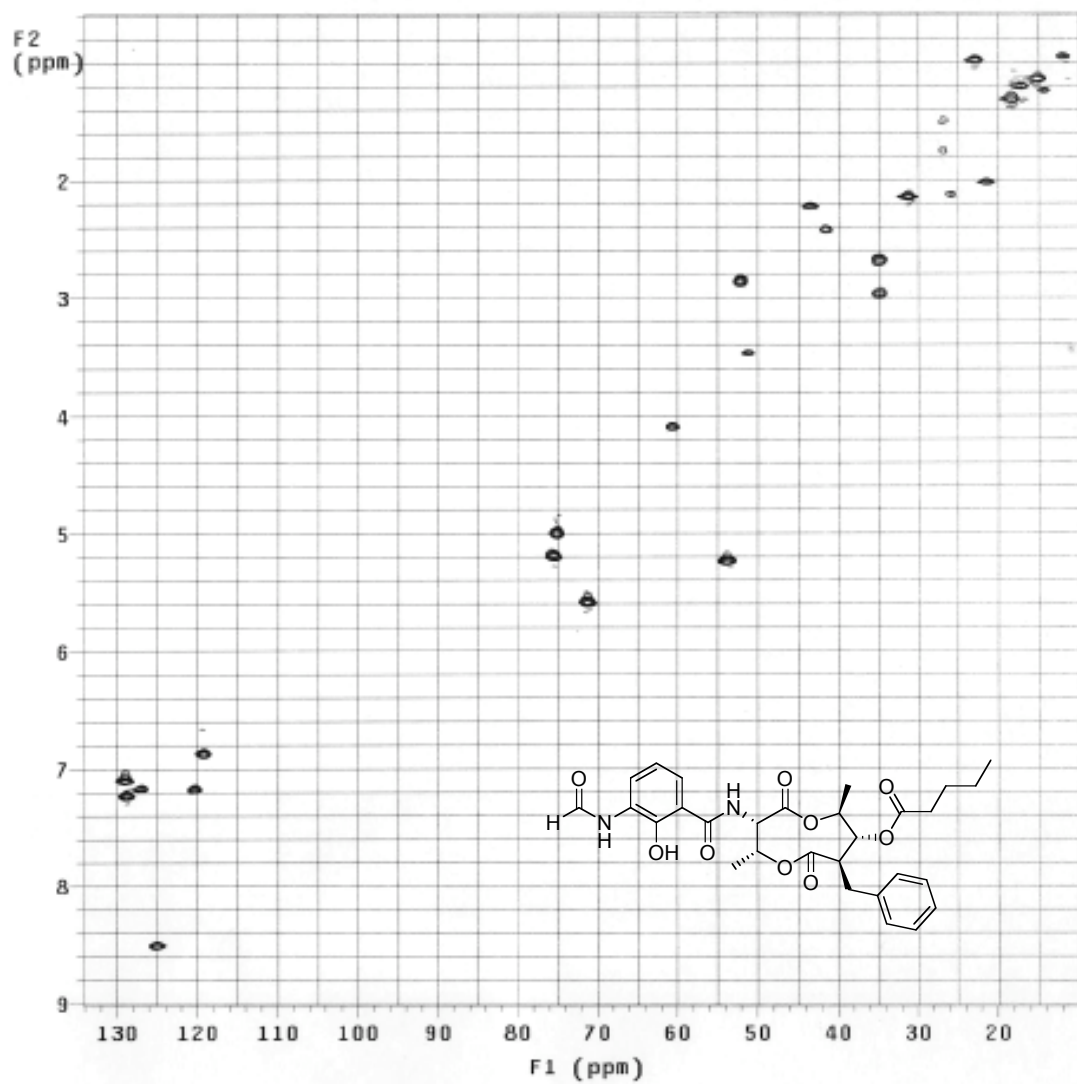
S18. <sup>13</sup> NMR spectrum for Splenocin C (**3**) in CDCl<sub>3</sub>.



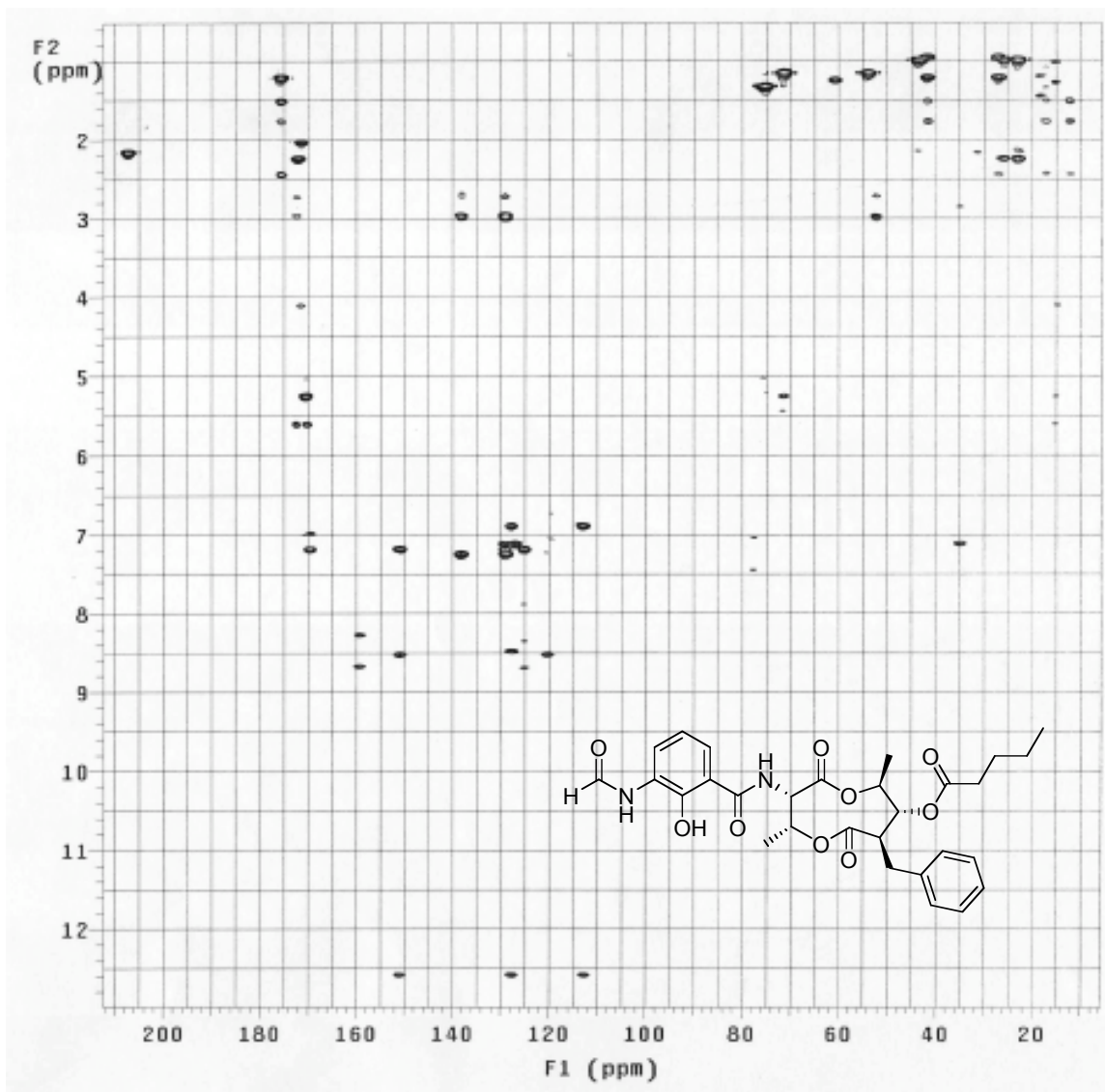
S19. gCOSY NMR Spectrum for Splenocin C (**3**) in CDCl<sub>3</sub>.



S20. gHSQC NMR spectrum for Splenocin C (**3**) in CDCl<sub>3</sub>.

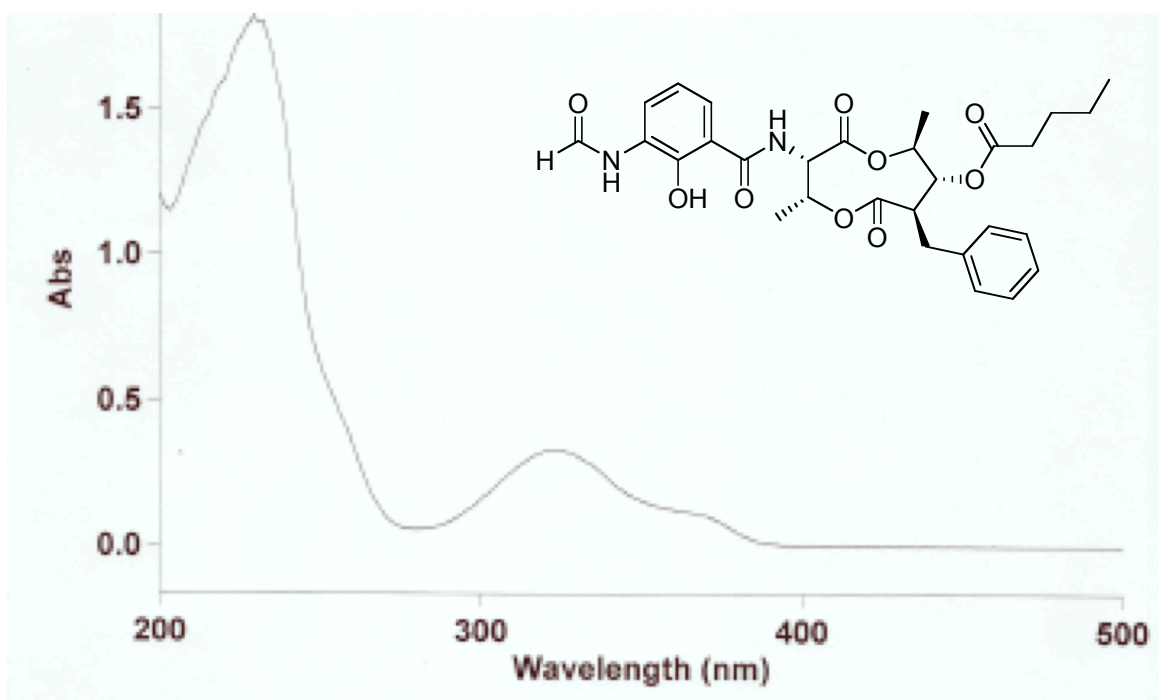


S21. gHMBC NMR spectrum for Splenocin C (**3**) in CDCl<sub>3</sub>.

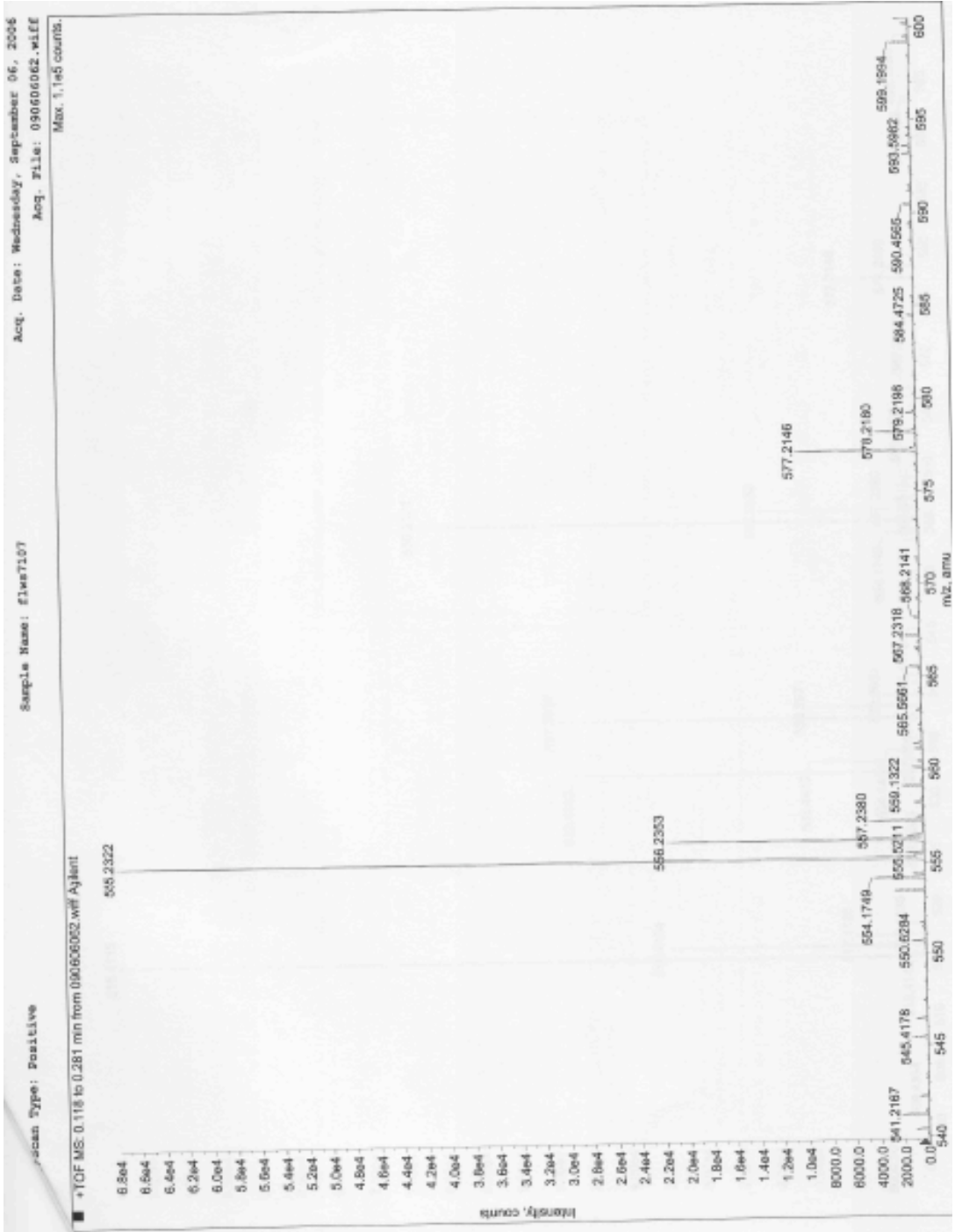




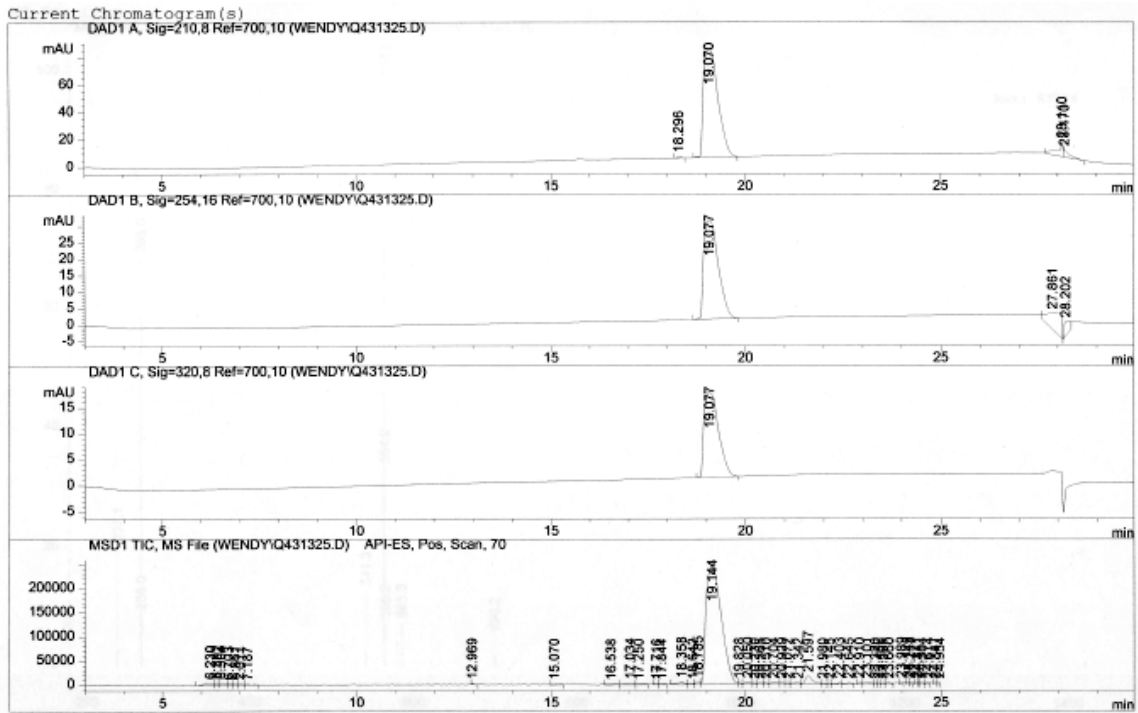
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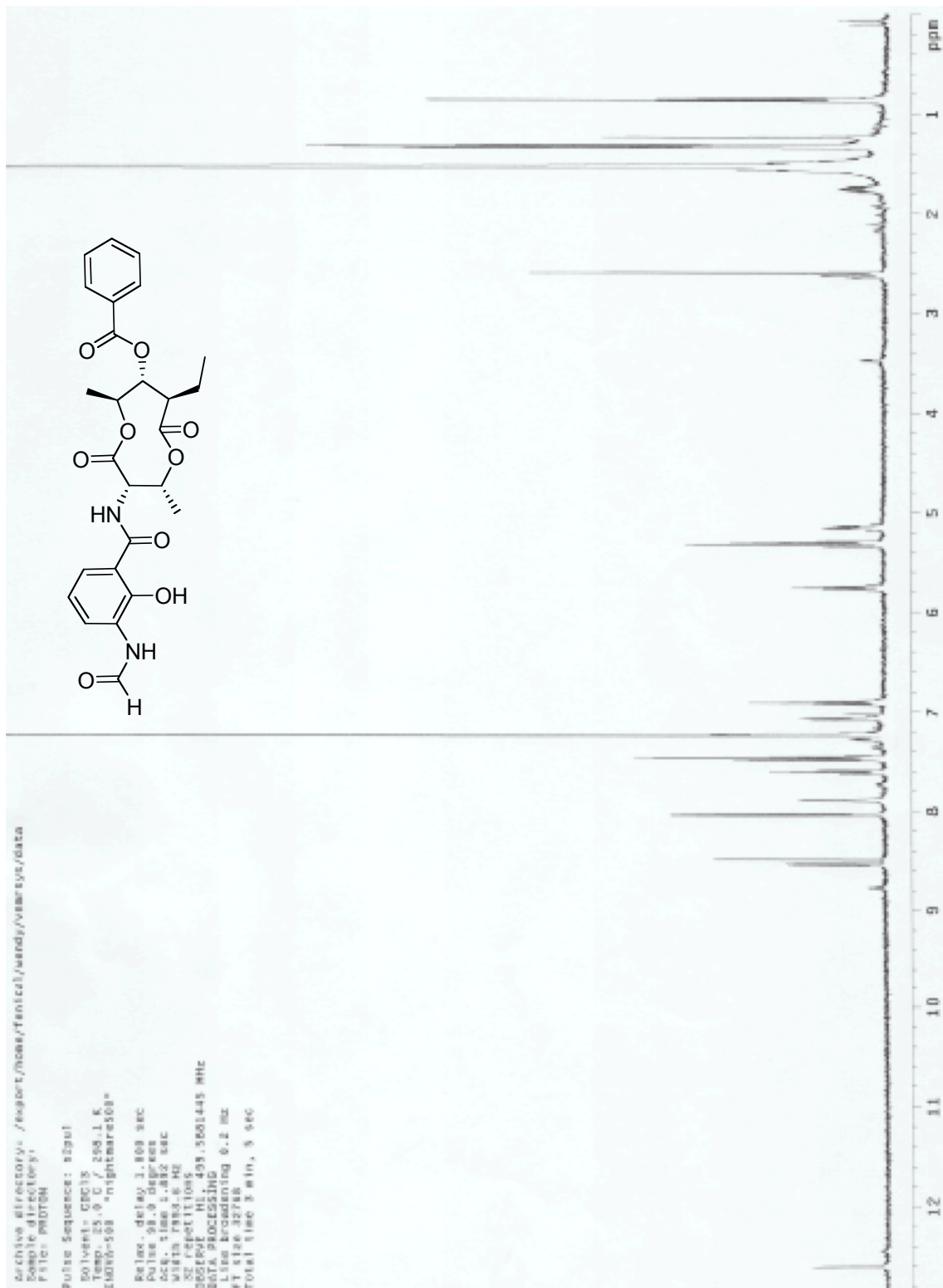
S23. HRMS for Splenocin C (3).



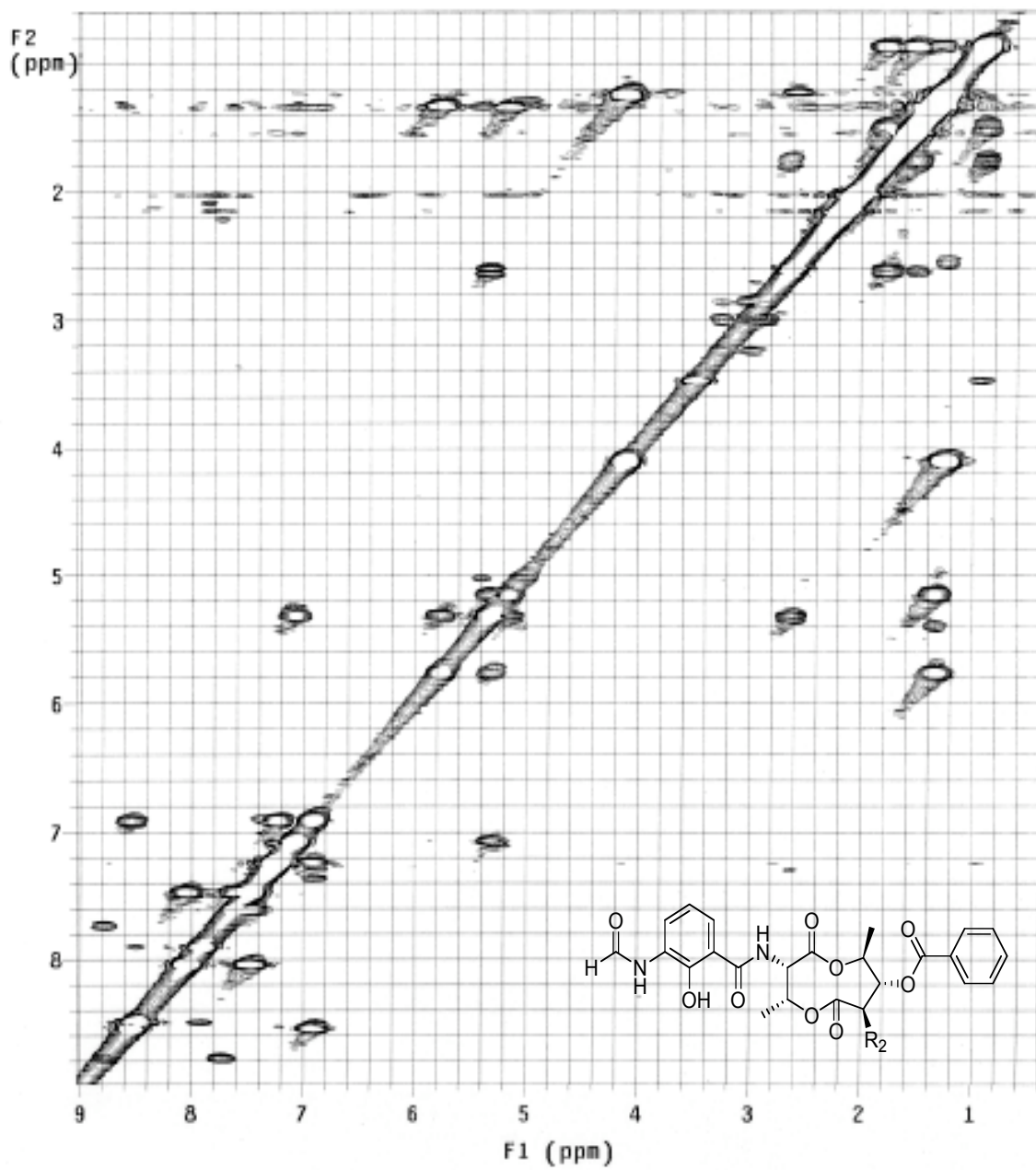
S24. LCMS Trace for Splenocin C (3).



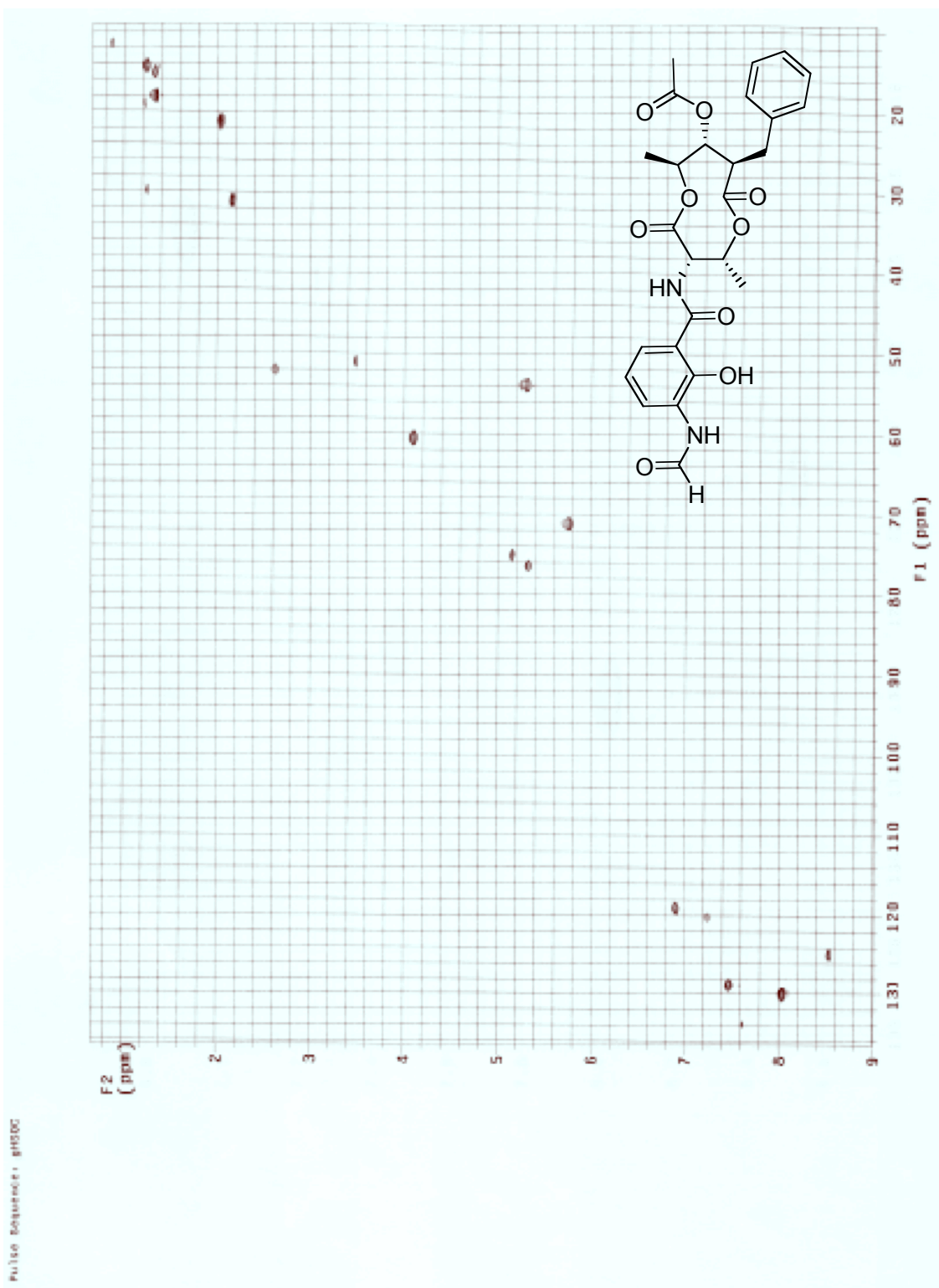
S25.  $^1\text{H}$  NMR Spectrum for Splenocin D (4) in  $\text{CDCl}_3$ .



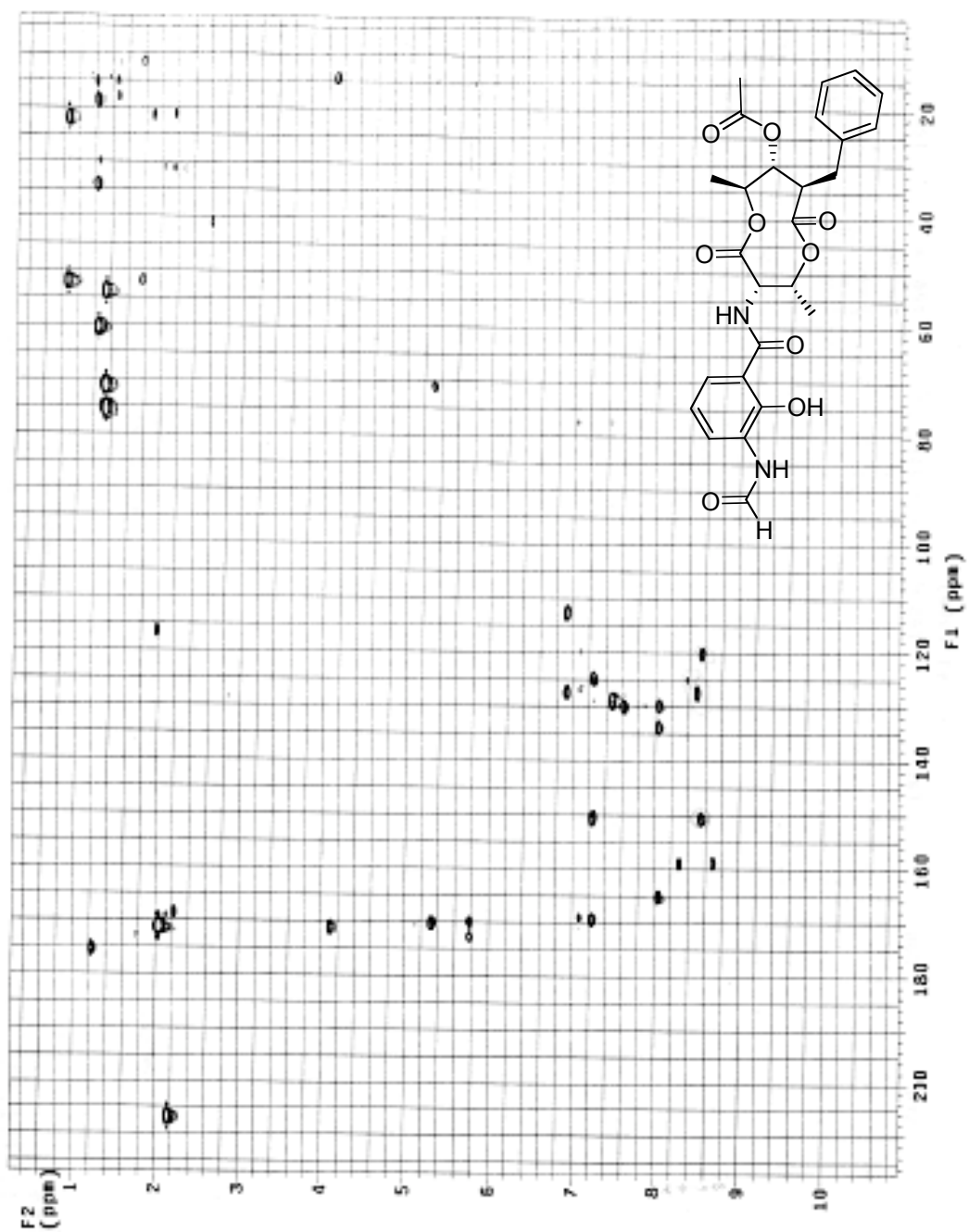
S26. gCOSY NMR Spectrum for Splenocin D (4) in CDCl<sub>3</sub>.



S27. gHSQC NMR Spectrum of Splenocin D(4) in CDCl<sub>3</sub>.

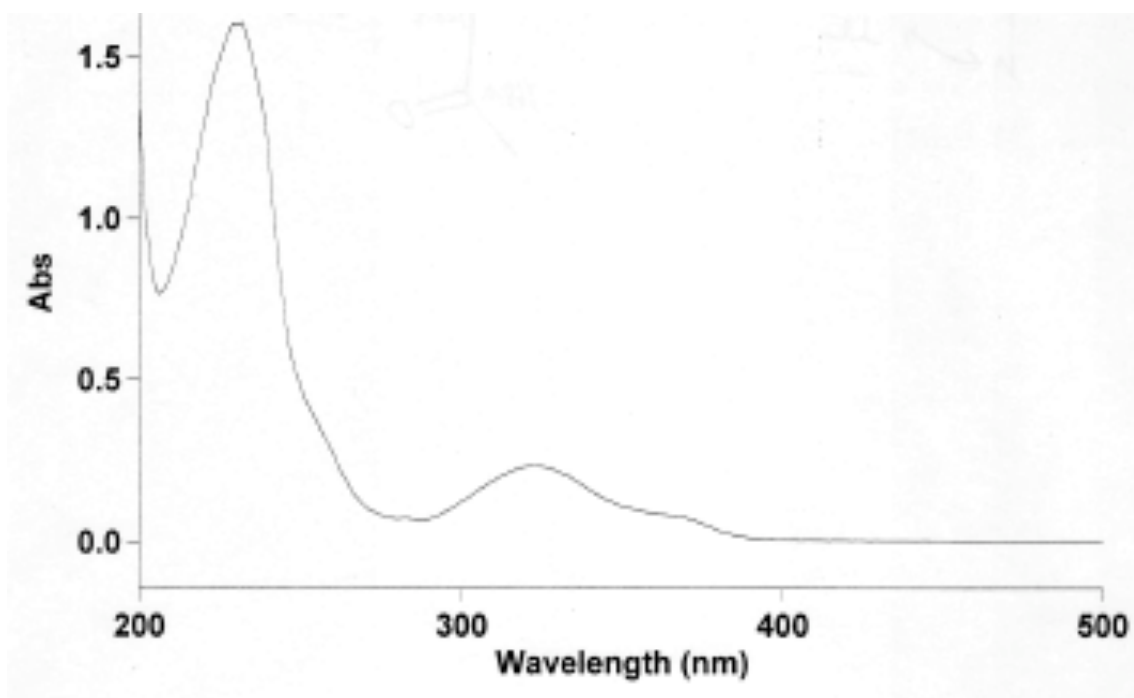


S28. gHMBC NMR spectrum for splenocin D (4) in CDCl<sub>3</sub>.



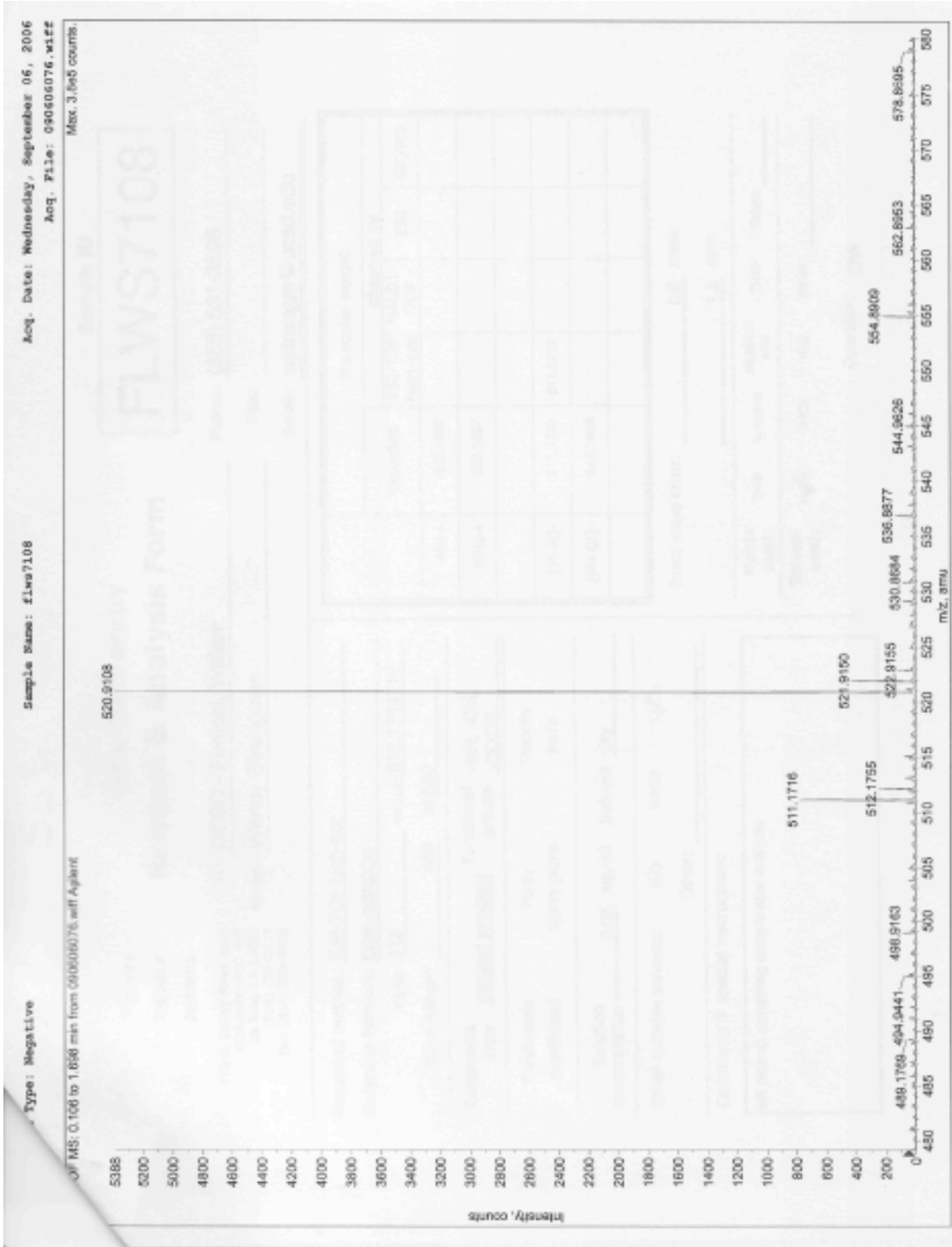
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S29. UV spectrum for Splenocin D (4) in MeCN.

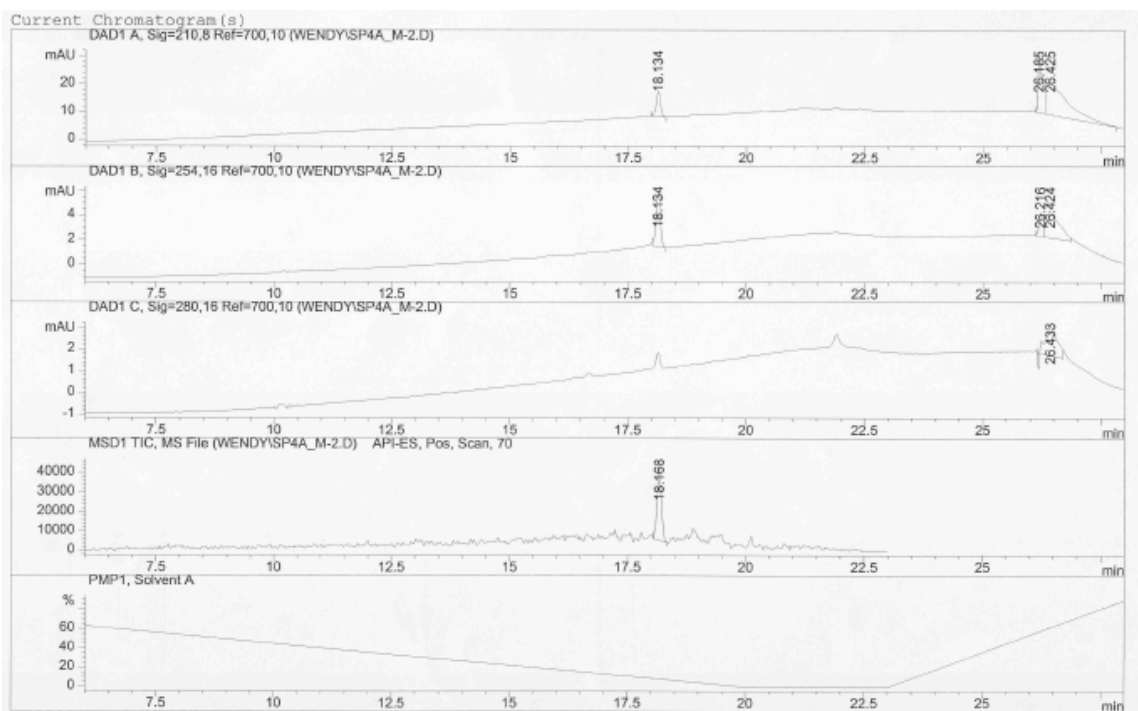




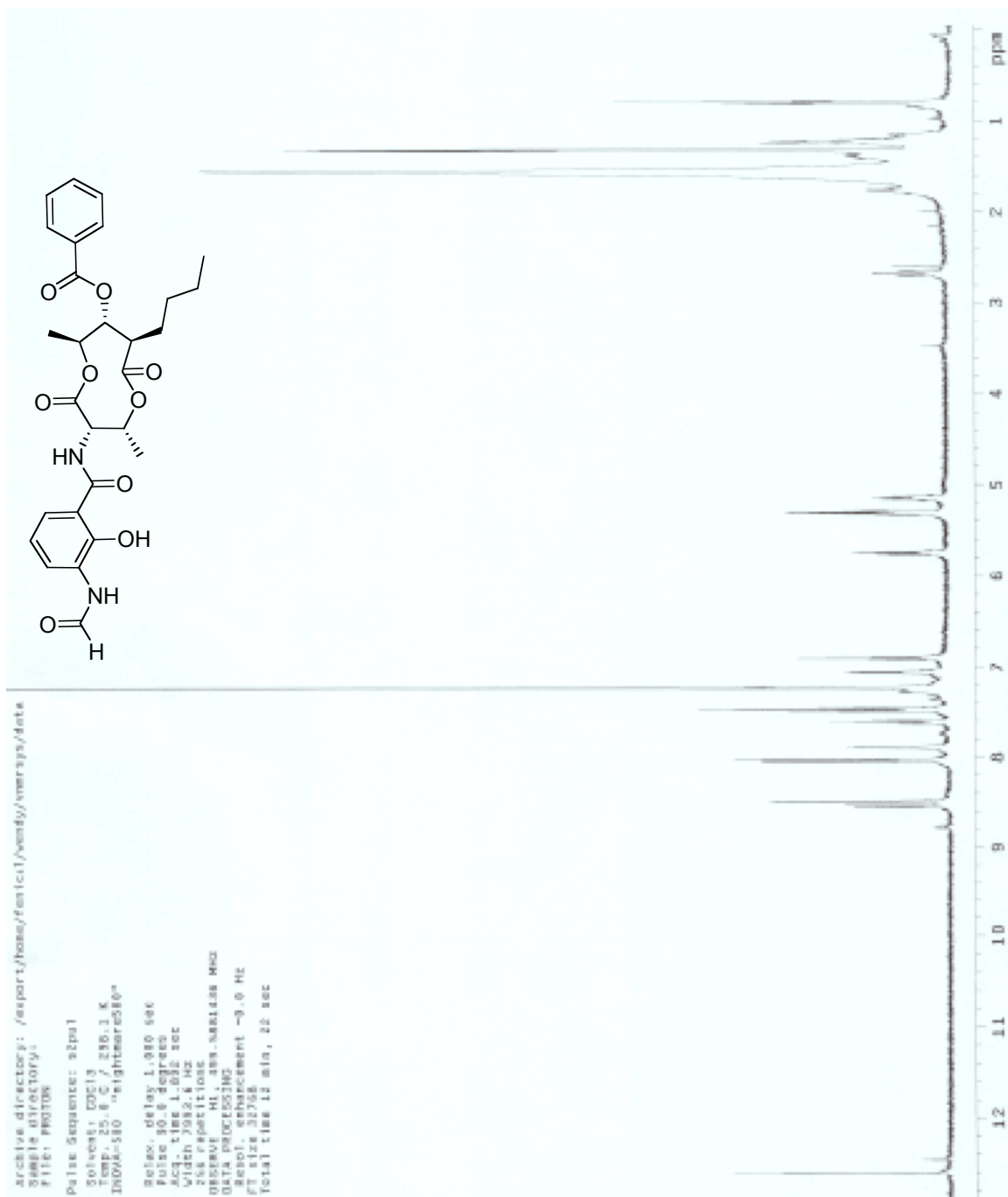
S30. HRMS for Splenocin D (4).



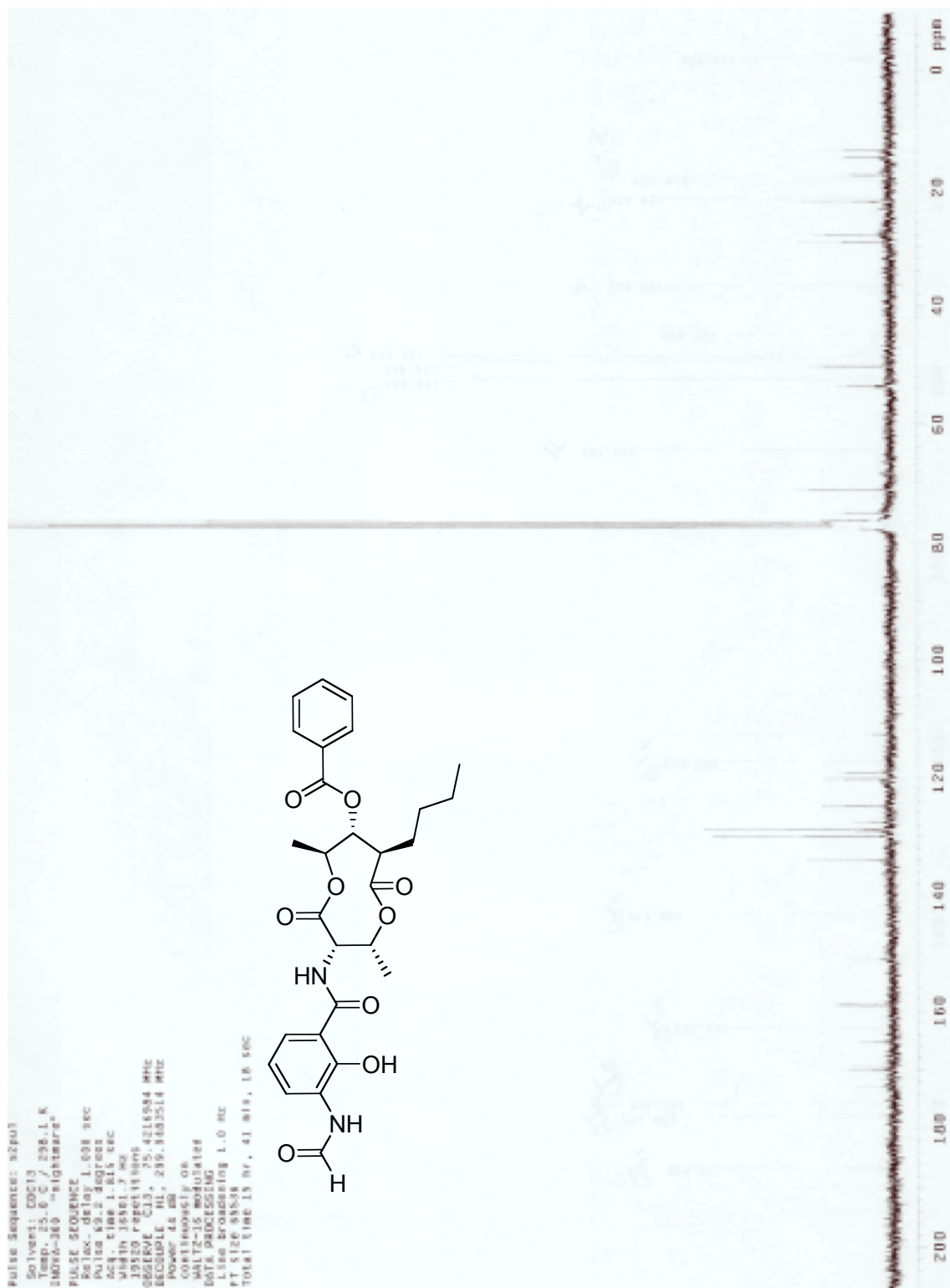
S31. LCMS Trace for Splenocin D (4).



S32.  $^1\text{H}$  NMR Spectrum for Splenocin E (5) in  $\text{CDCl}_3$ .



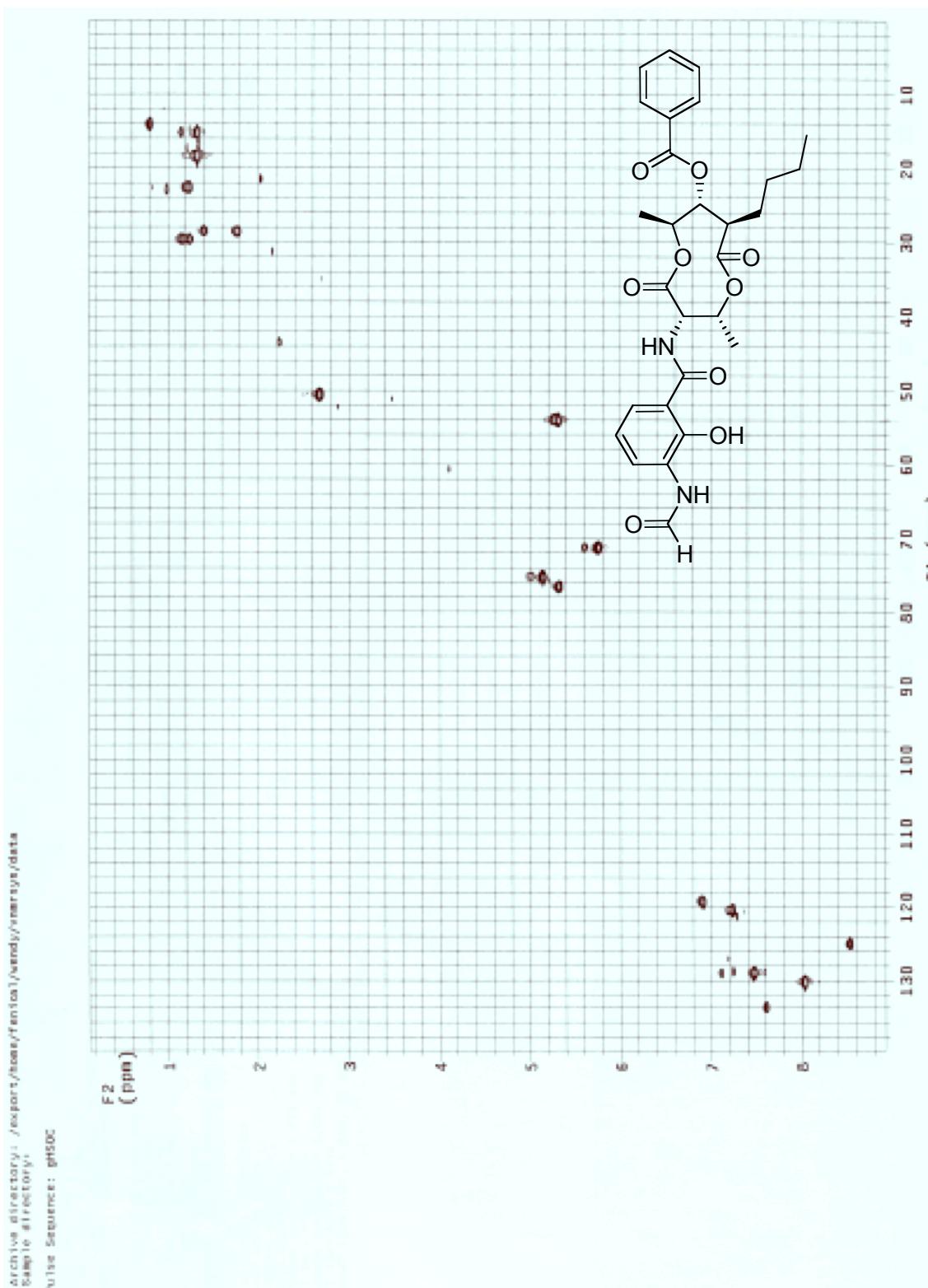
S33.  $^{13}\text{C}$  NMR Spectrum for Splenocin E (5) in  $\text{CDCl}_3$ .



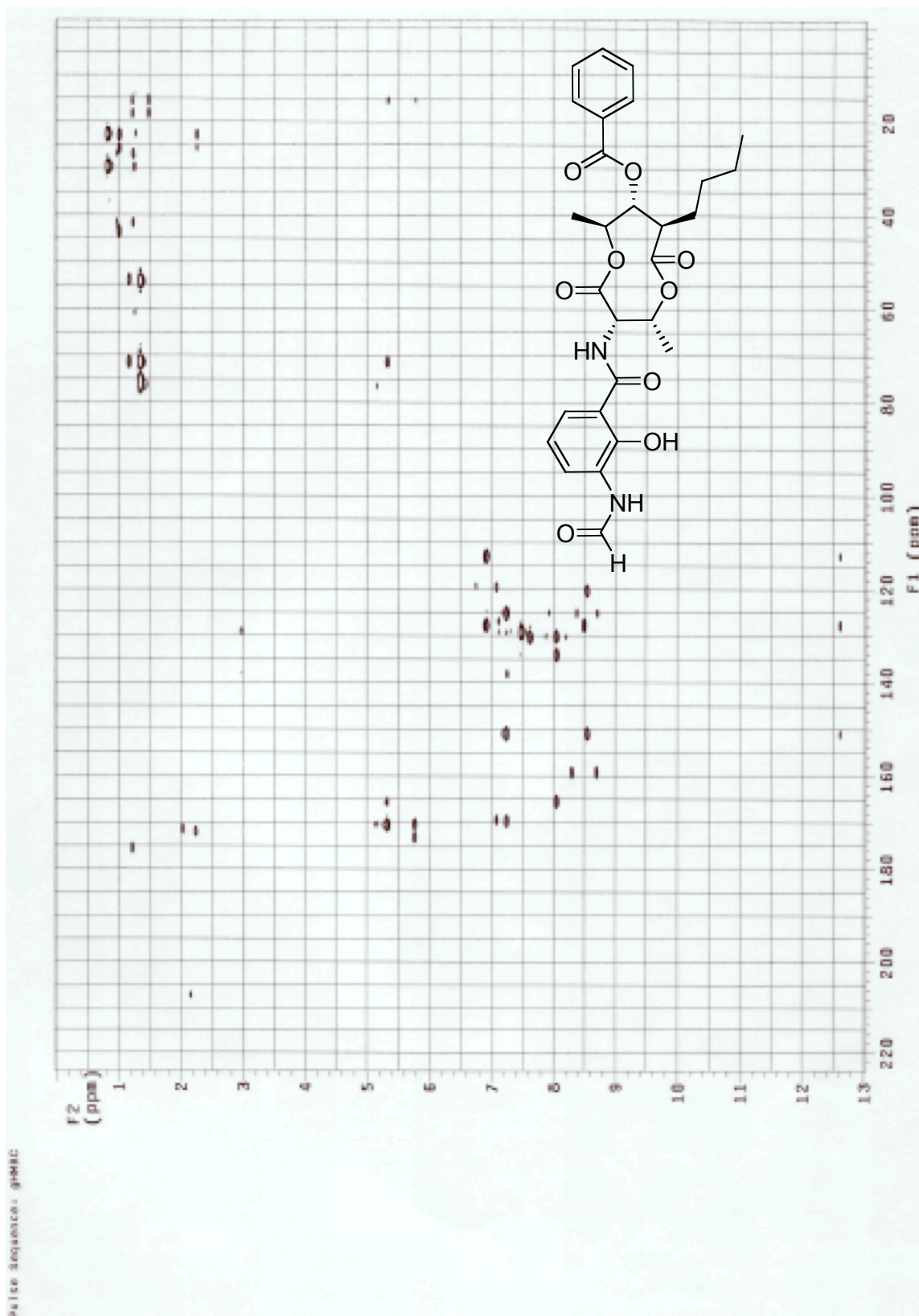




S36. gHSQC NMR spectrum of Splenocin E (5) in CDCl<sub>3</sub>.

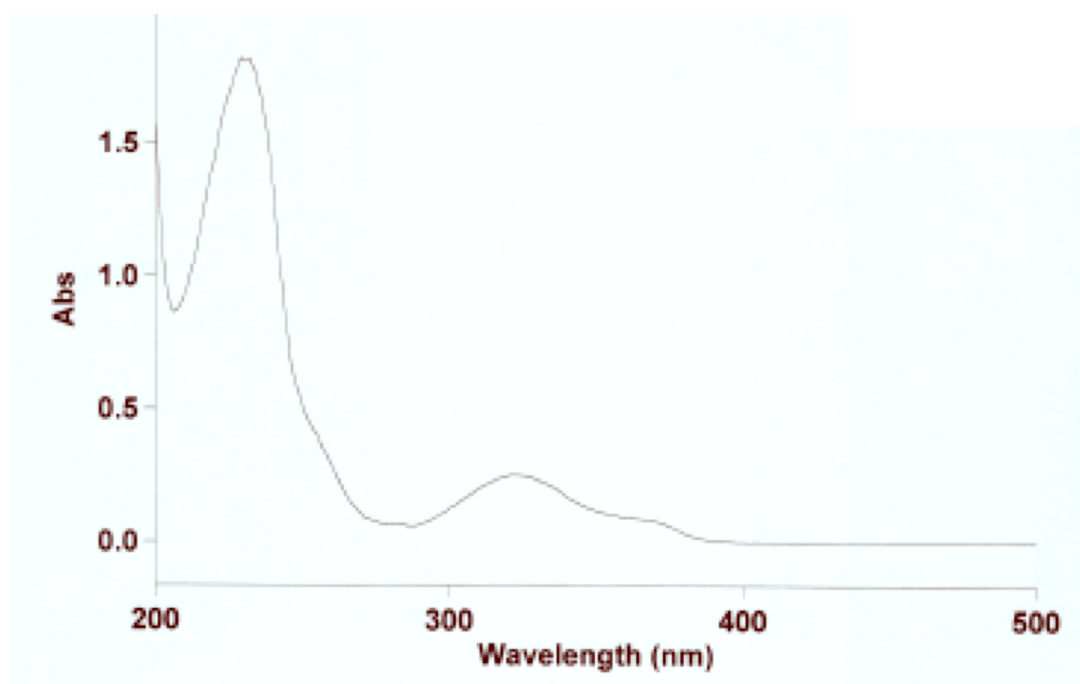


S37. gHMBC NMR spectrum of Splenocin E (5) in CDCl<sub>3</sub>.

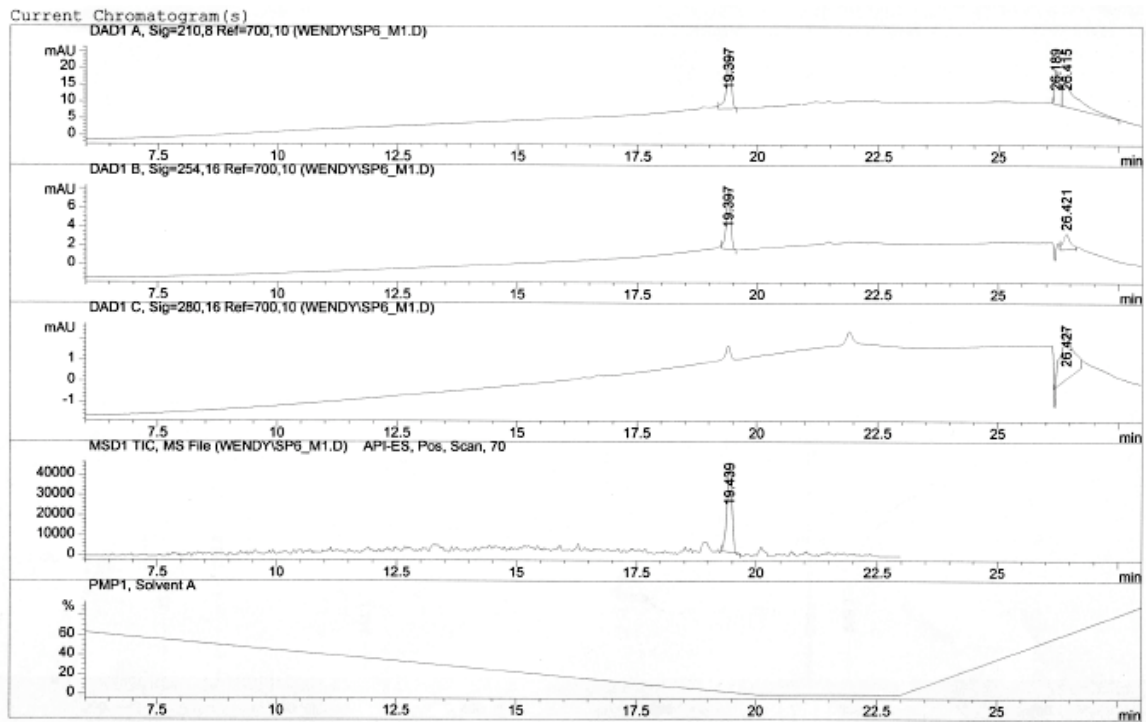




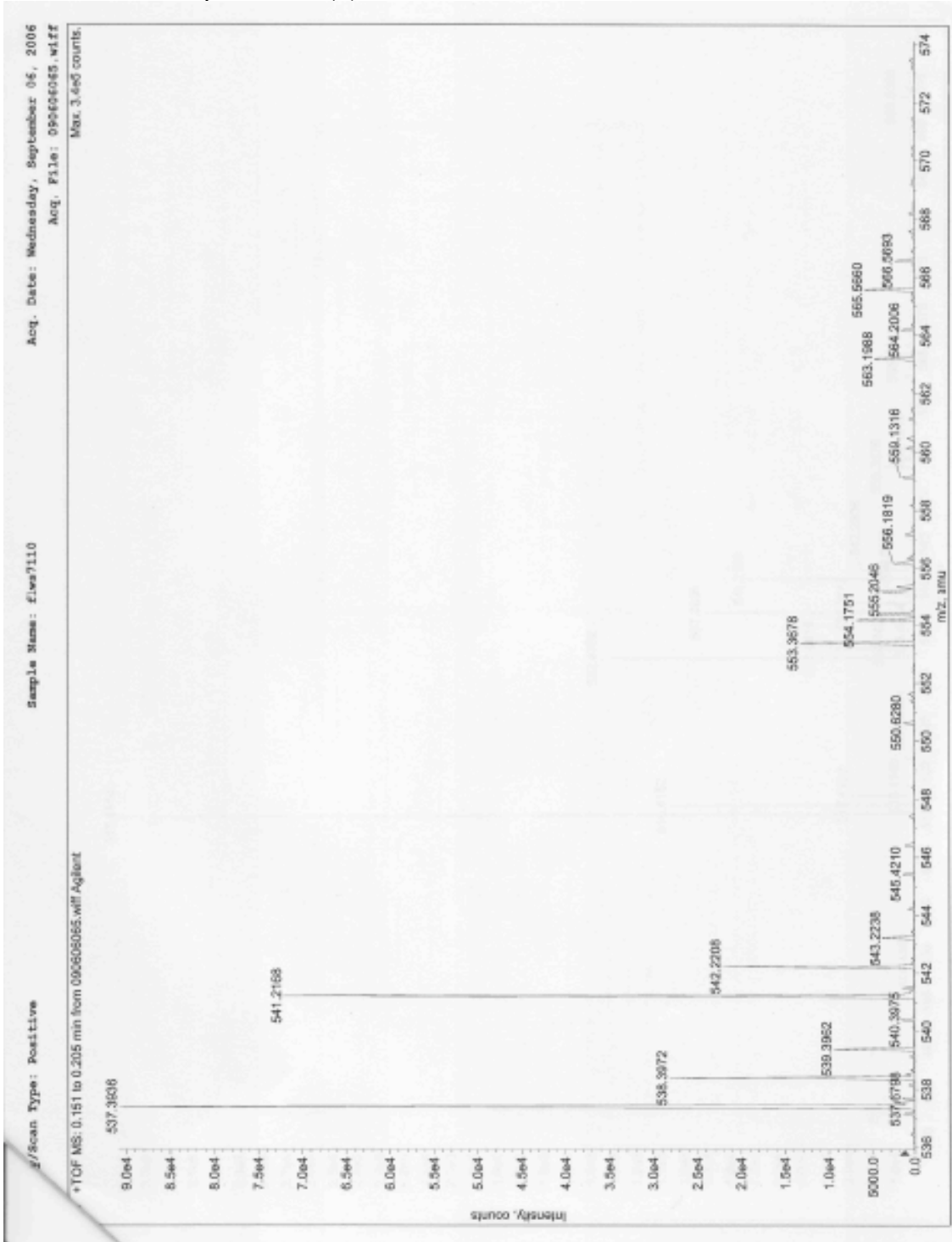
S38. UV Spectrum for Splenocin E (5) in MeCN.



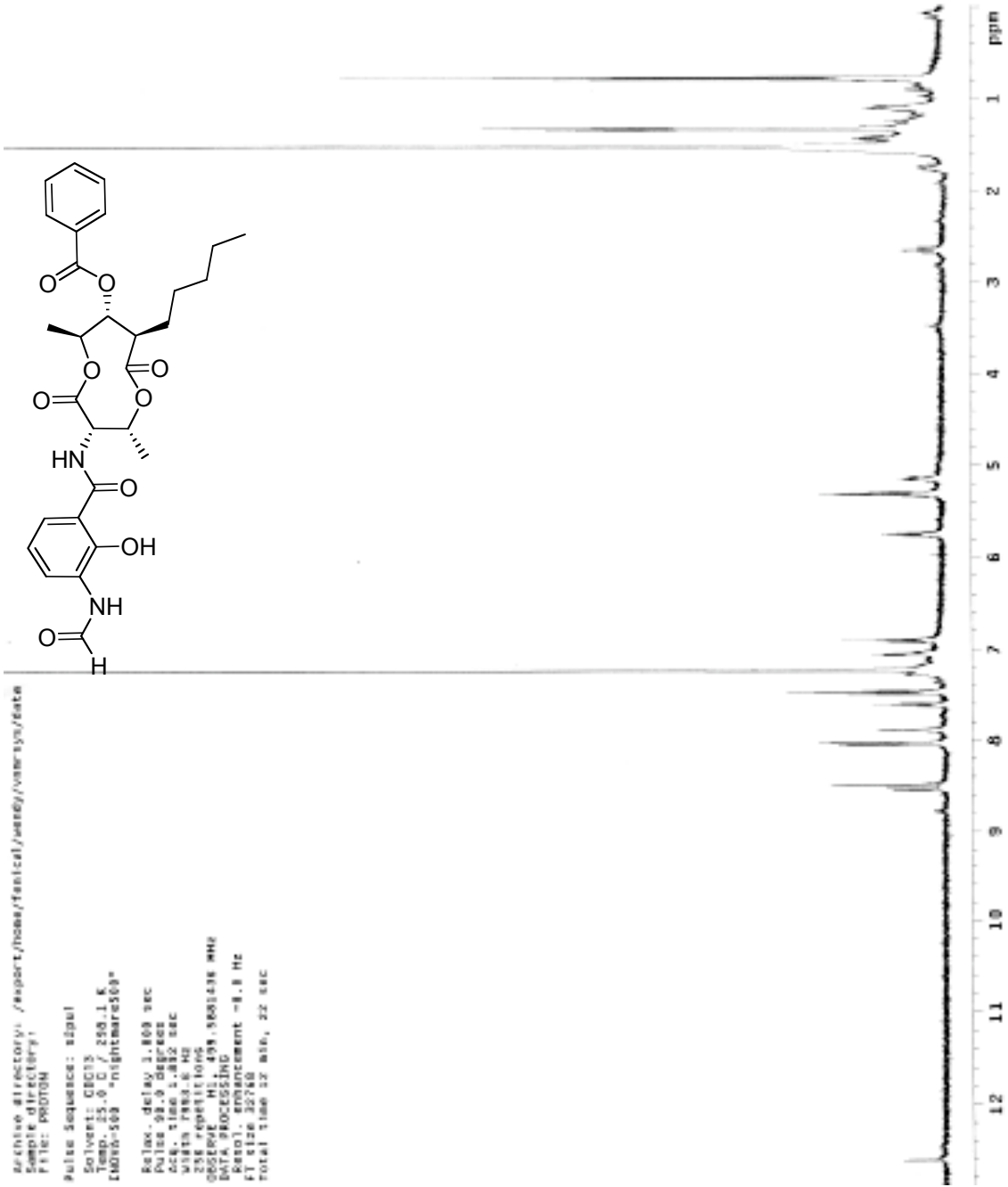
S39. LCMS Trace for Splenocin E (5).



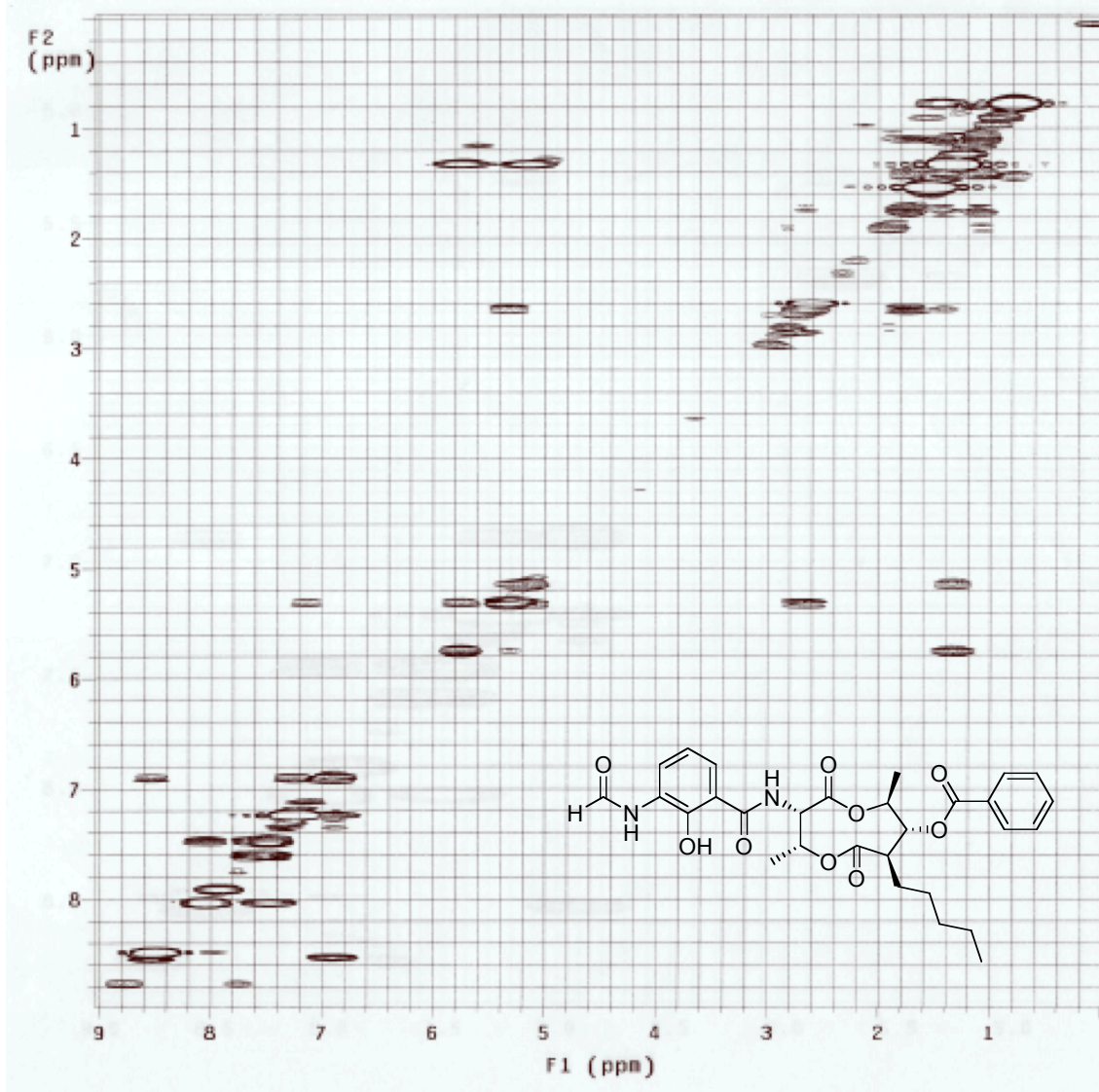
S40. HRMS for Splenocin E (5).



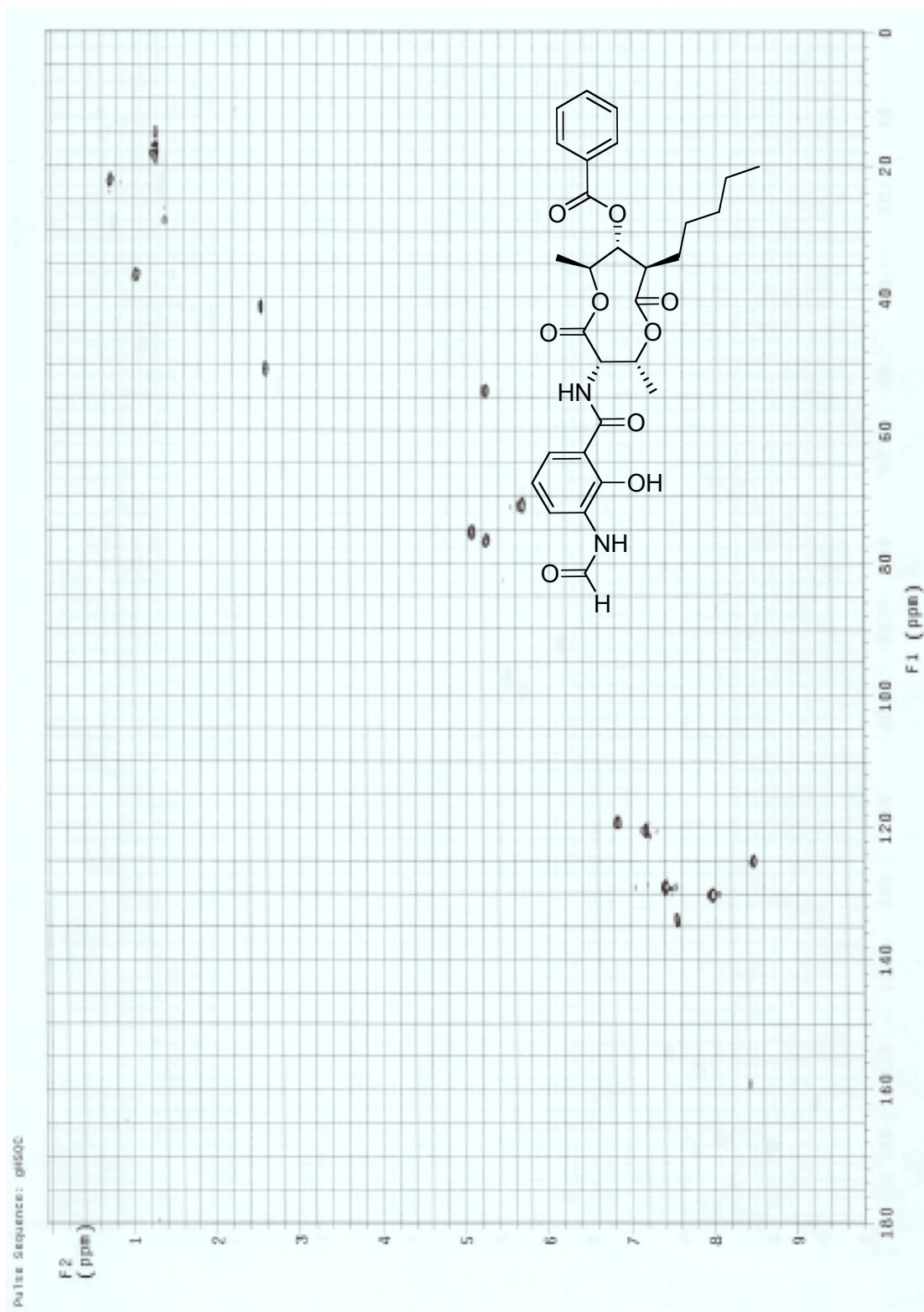
S41. <sup>1</sup>H NMR Spectrum for Splenocin F (6) in CDCl<sub>3</sub>.



S42. gCOSY NMR spectrum in CDCl<sub>3</sub>.



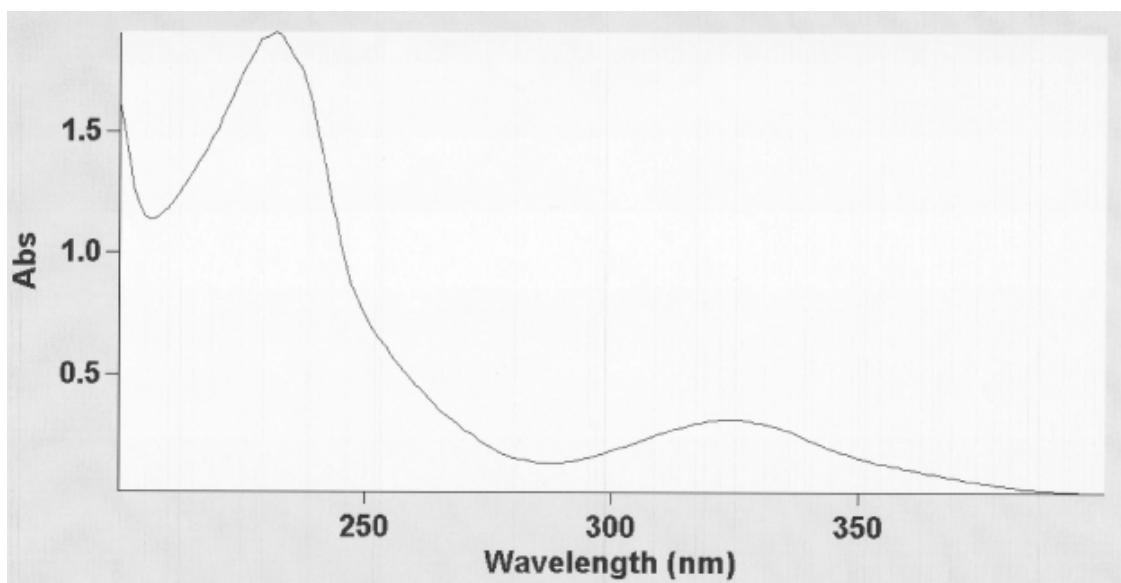
S43 gHSQC NMR Spectrum for Splenocin F (6) in CDCl<sub>3</sub>.



S44. HRMS for Splenocin F (6).

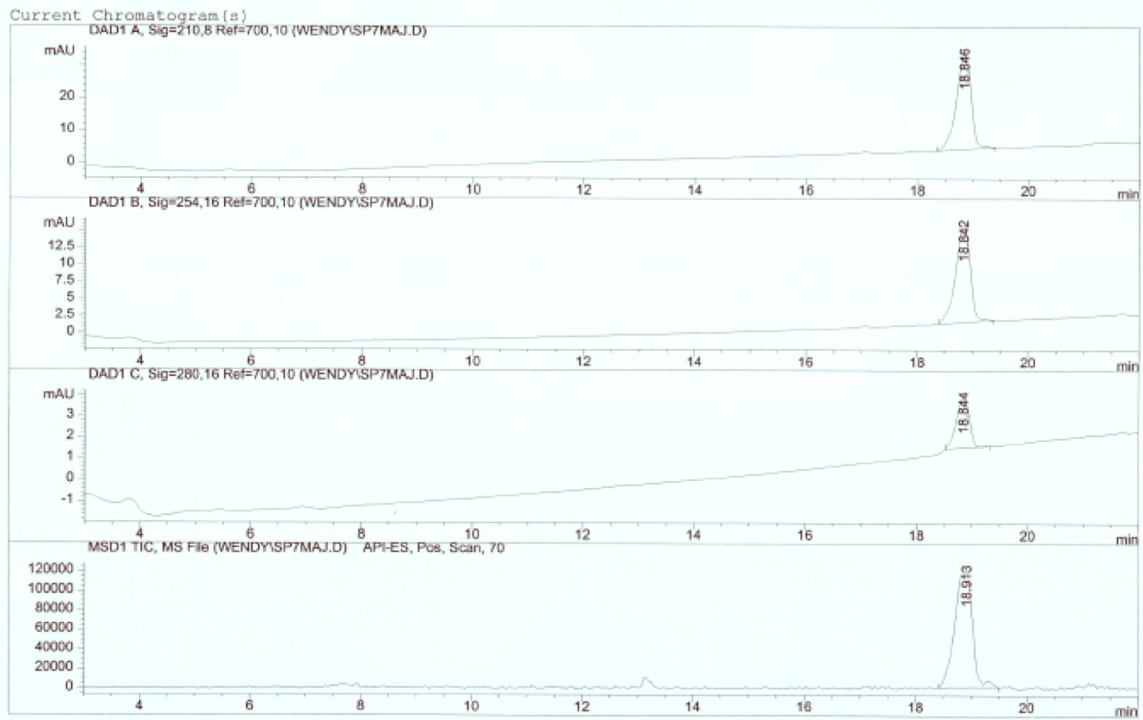


S45. UV Spectrum for Splenocin F (6) in MeCN

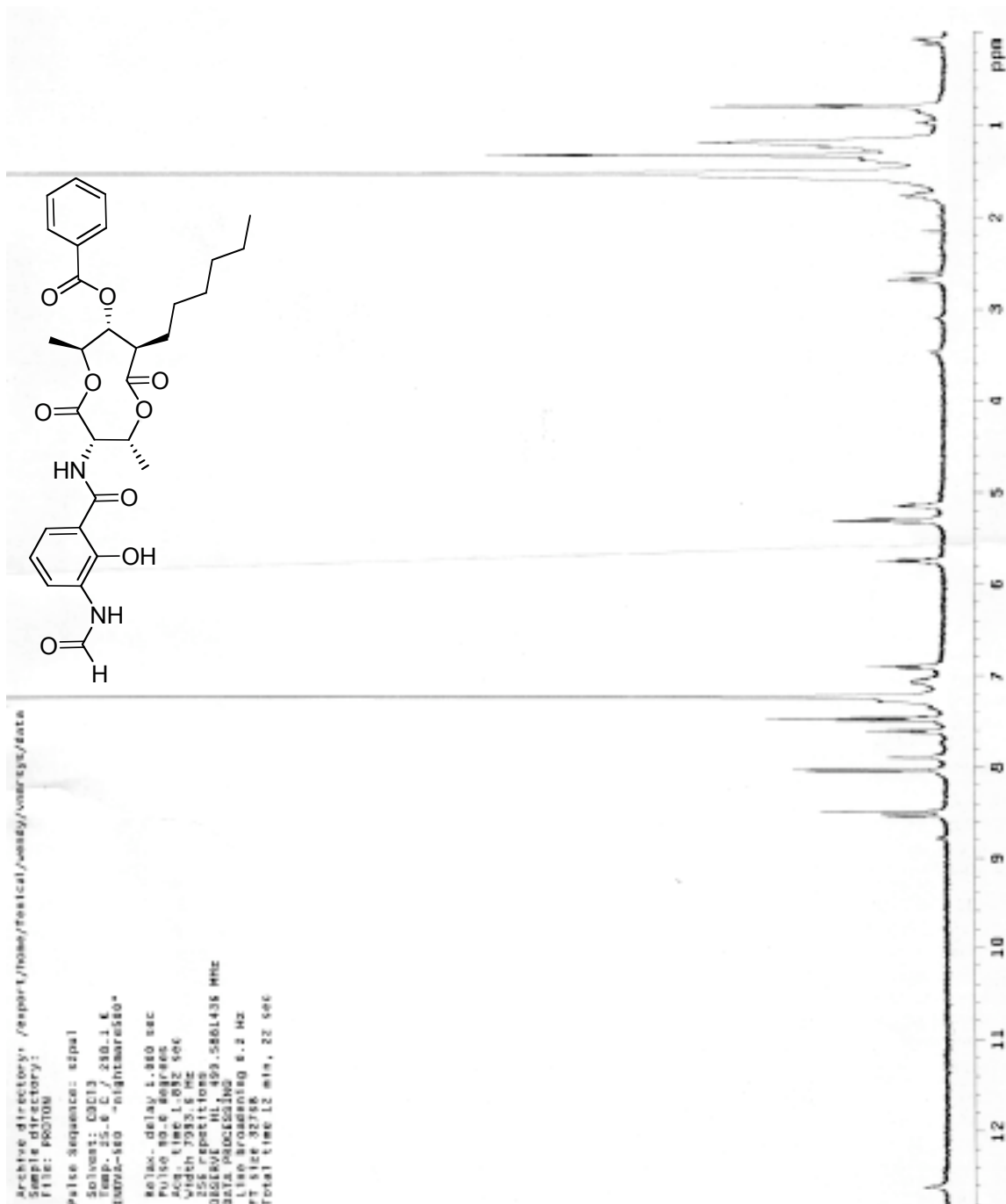




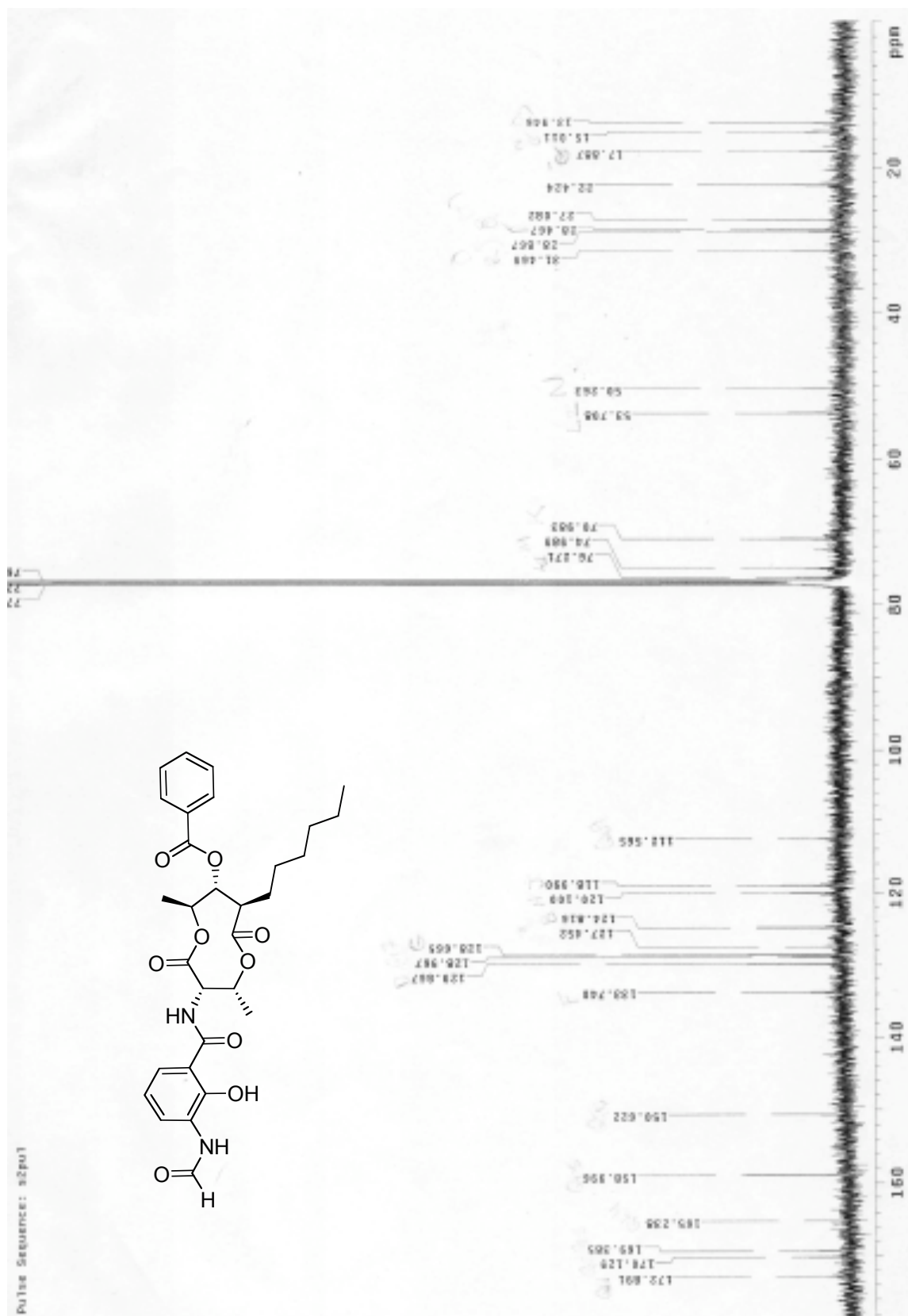
S46. LCMS Trace for Splenocin F (6).



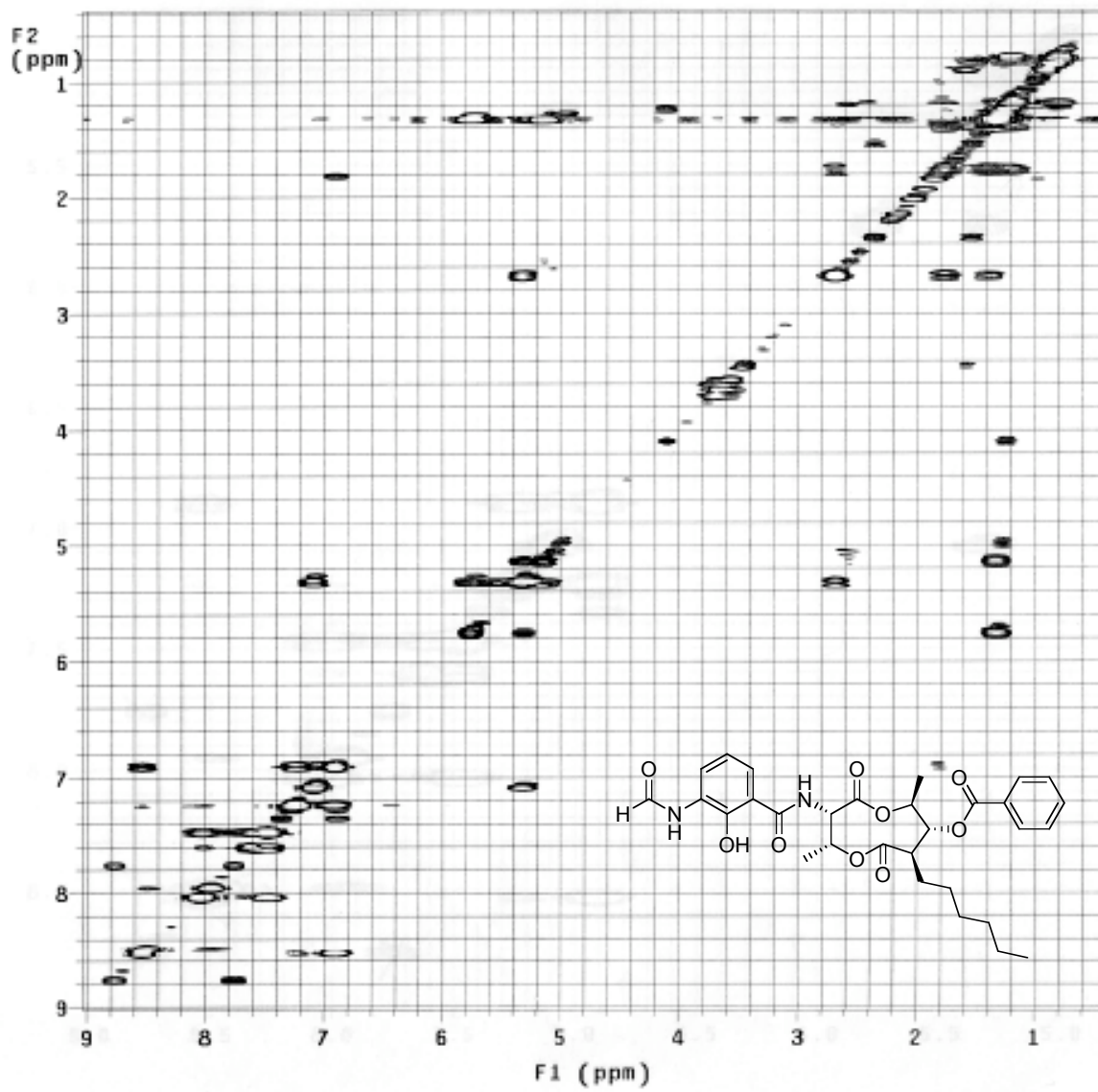
S47.  $^1\text{H}$  NMR Spectrum for Splenocin G (7) in  $\text{CDCl}_3$ .



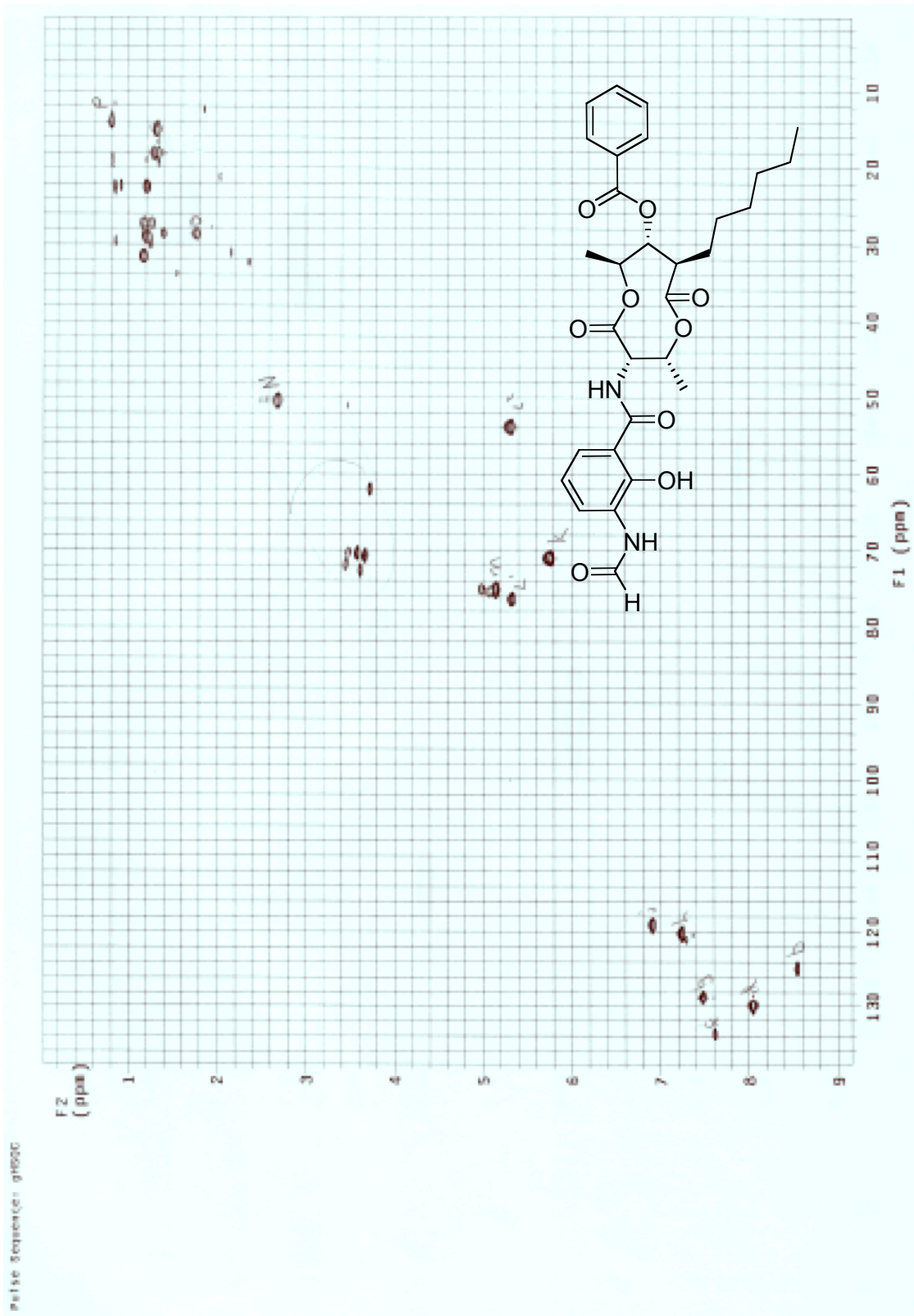
S48.  $^{13}\text{C}$  NMR Spectrum for Splenocin G (7) in  $\text{CDCl}_3$ .



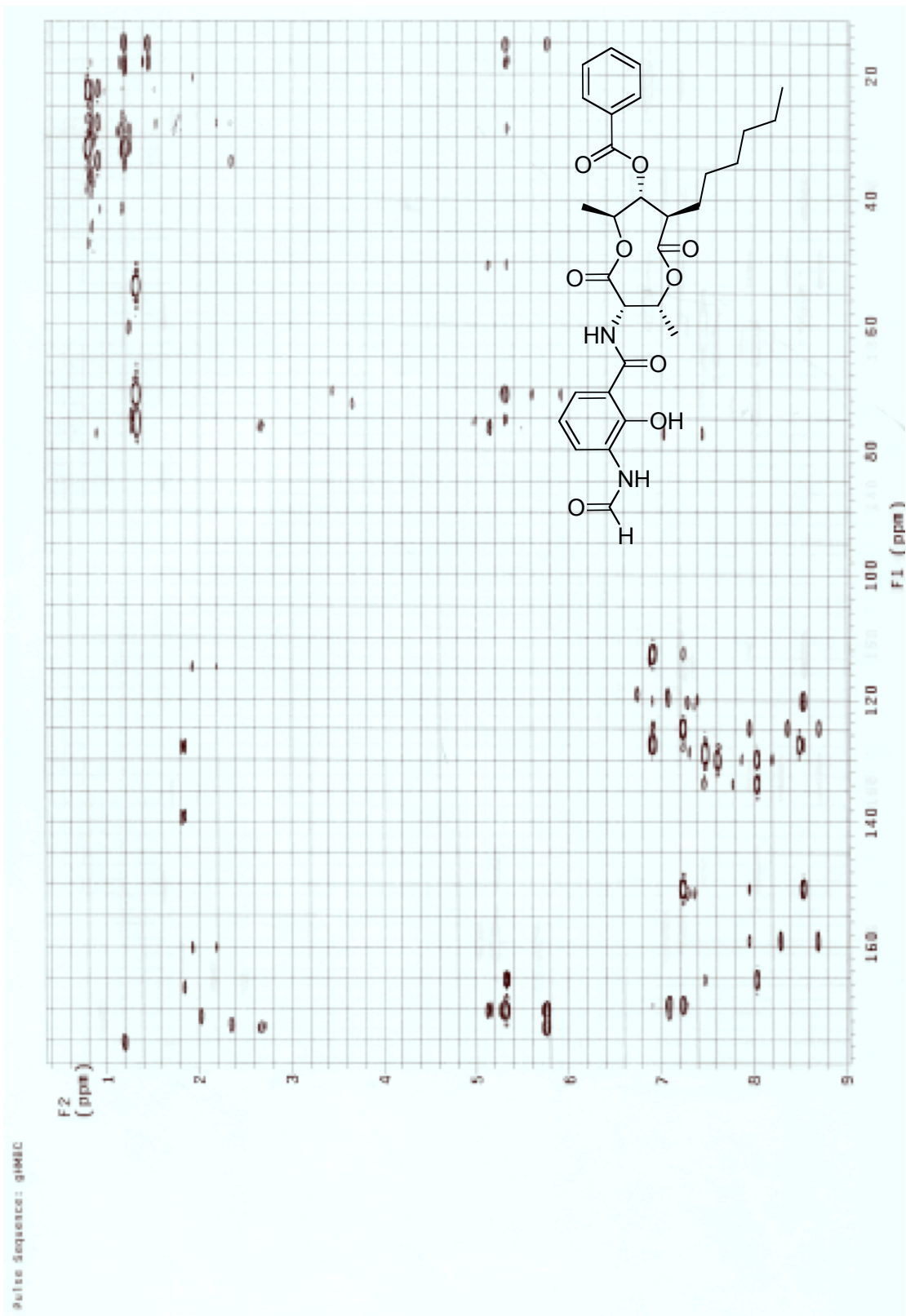
S49. gCOSY NMR Spectrum for Splenocin G (7) in CDCl<sub>3</sub>.



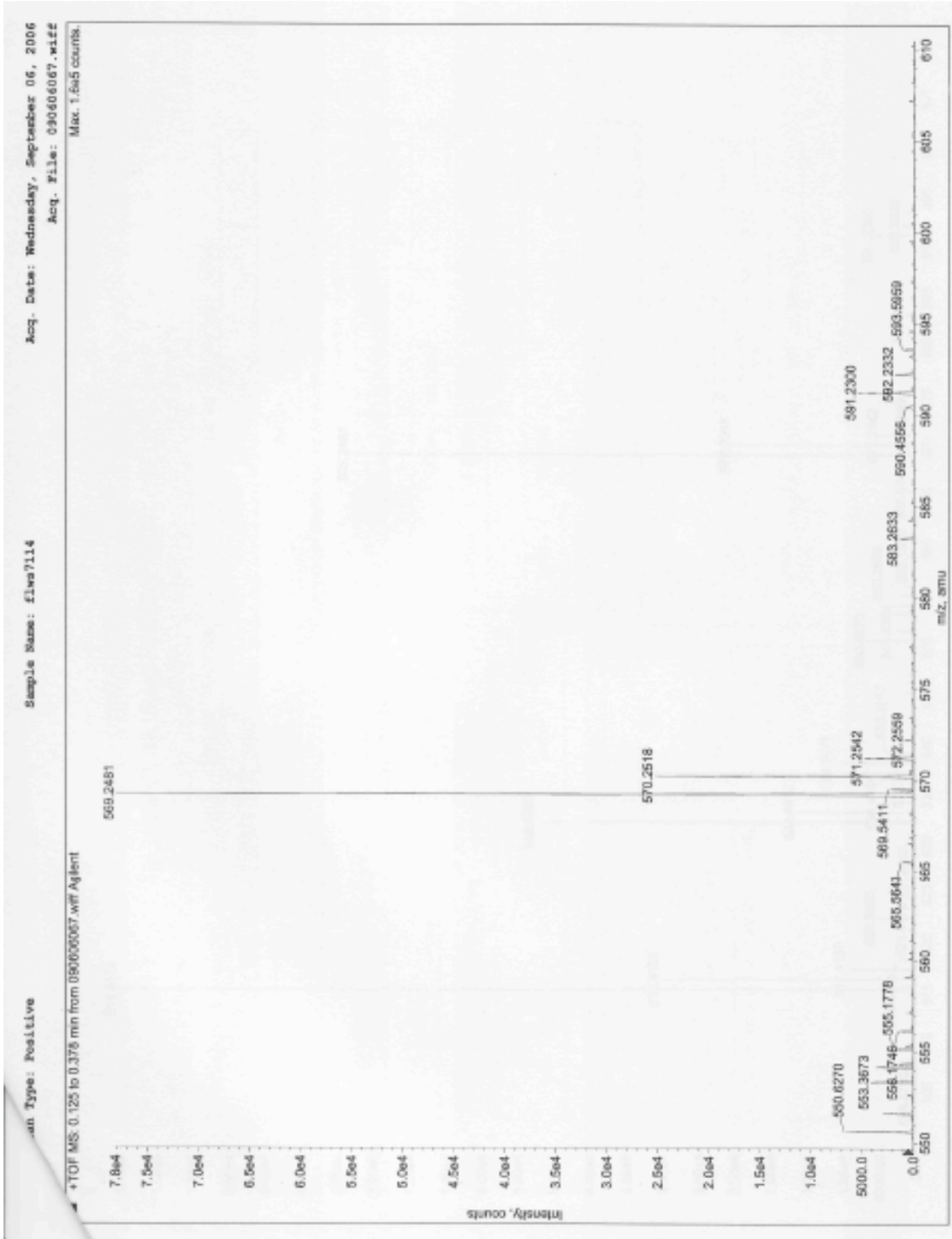
S50. gHSQC NMR Spectrum for Splenocin G (7) in CDCl<sub>3</sub>.



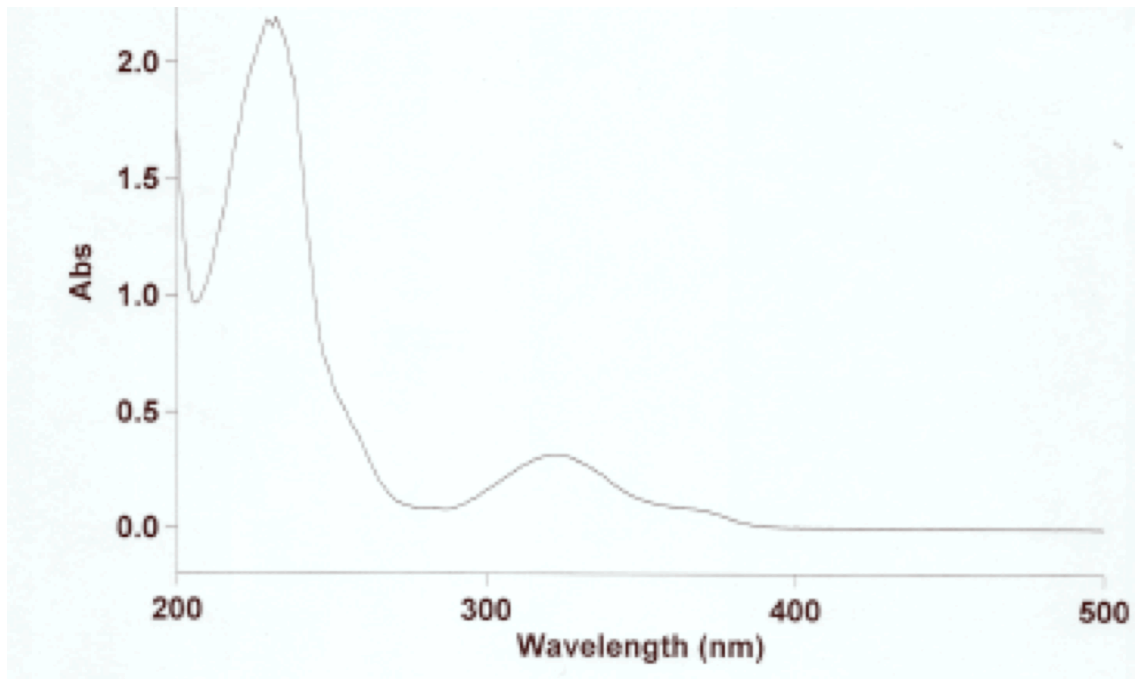
S51. gHMBC NMR Spectrum for Splenocin G (7) in CDCl<sub>3</sub>.



S52. HRMS for Splenocin G (7)

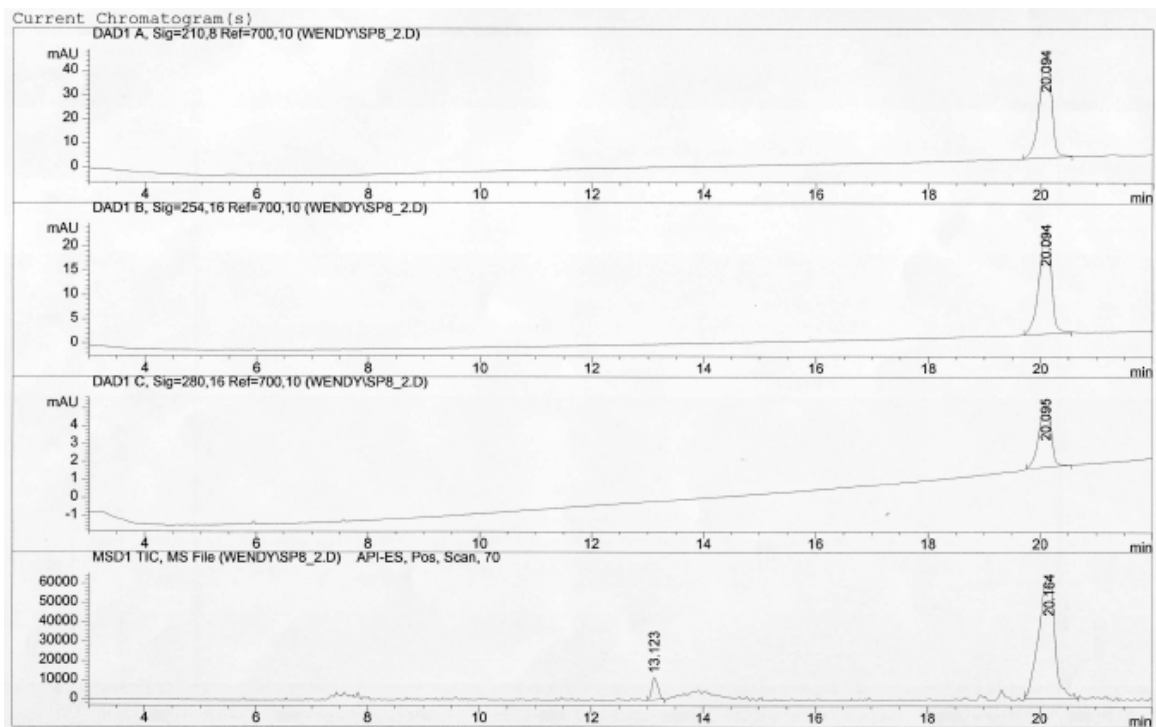


S53. UV Spectrum for Splenocin G(7) in MeCN.

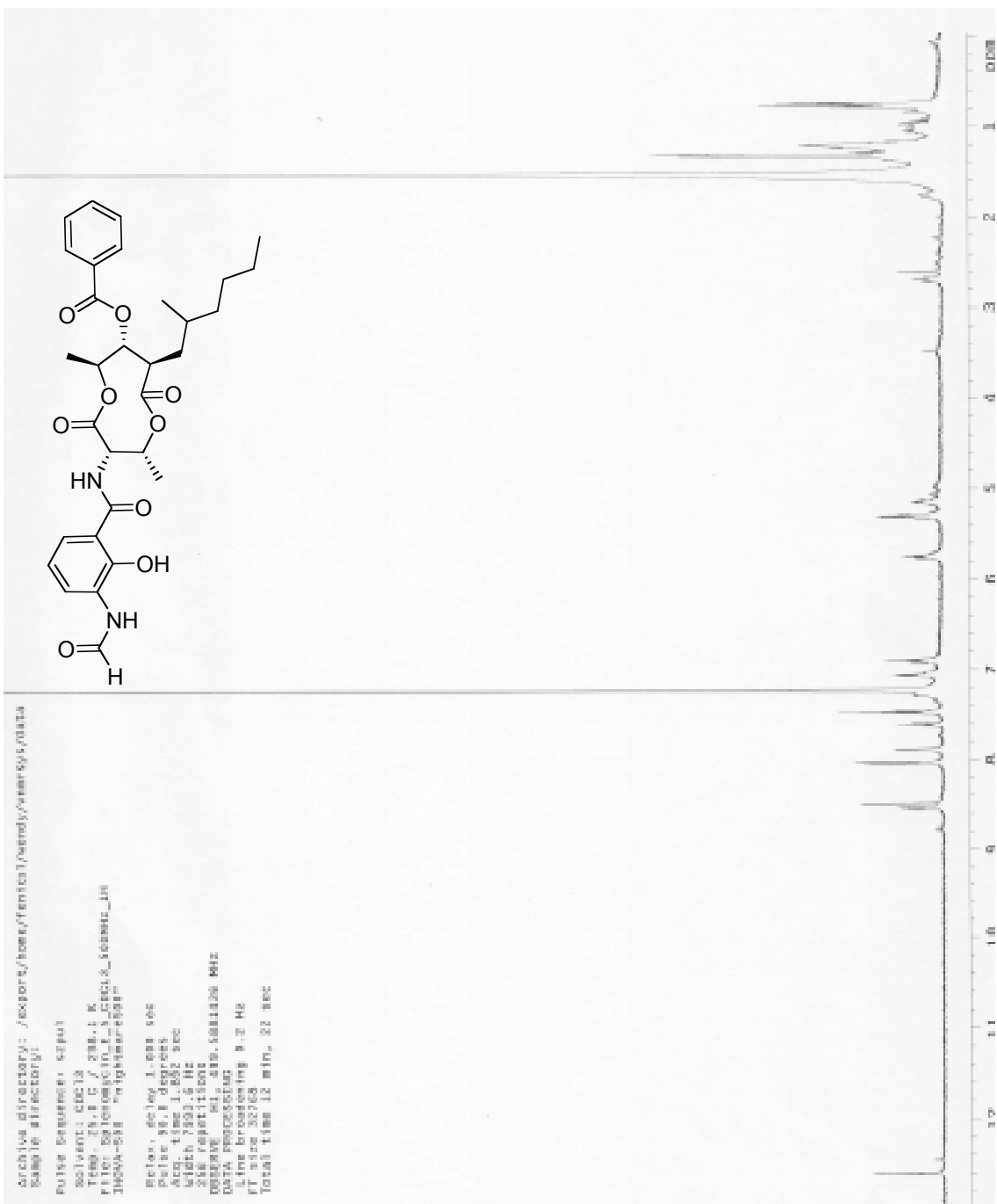




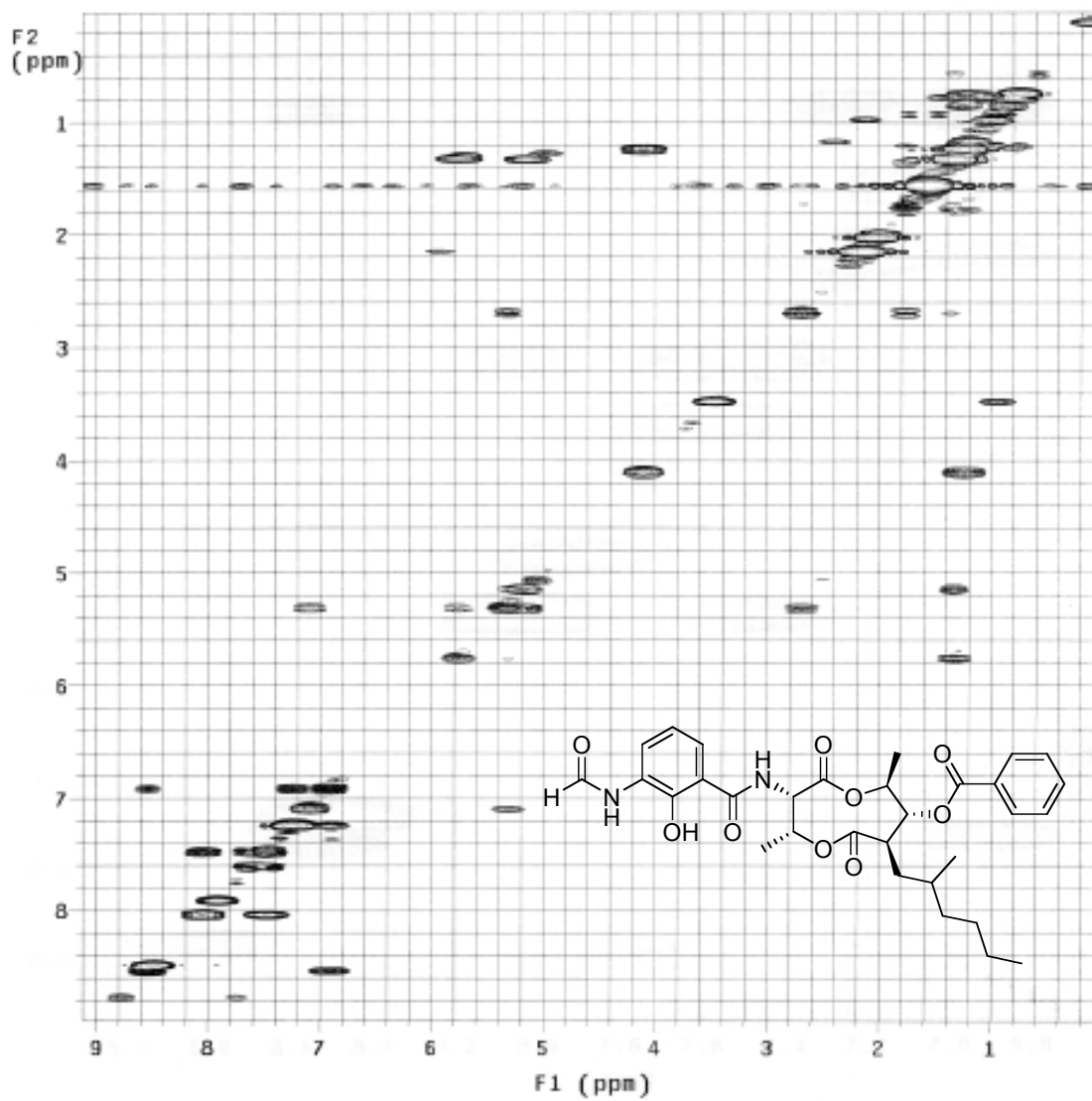
S54. LCMS Trace for Splenocin G (7).



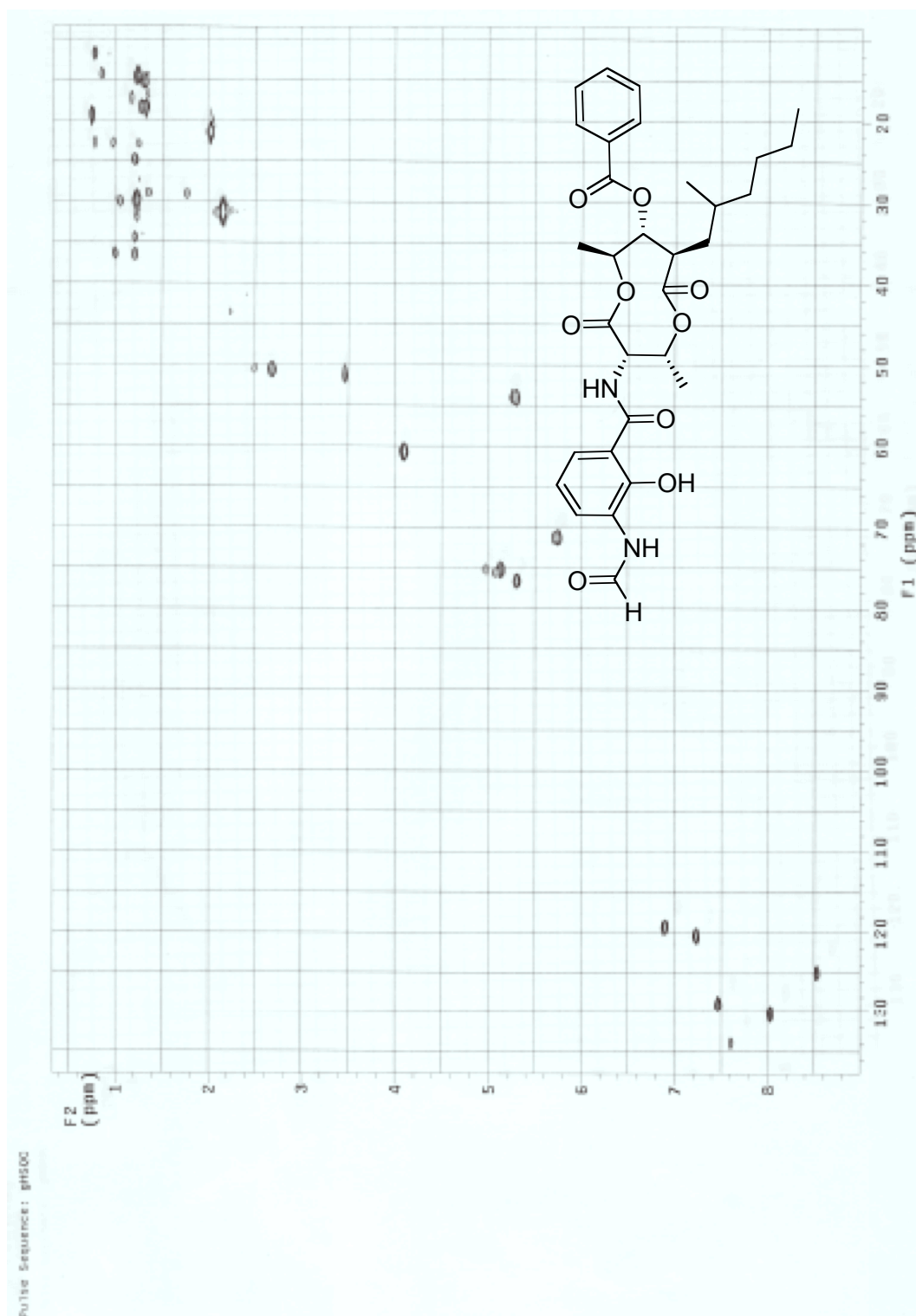
S55.  $^1\text{H}$  NMR Spectrum for Splenocin H (**8**) in  $\text{CDCl}_3$ .



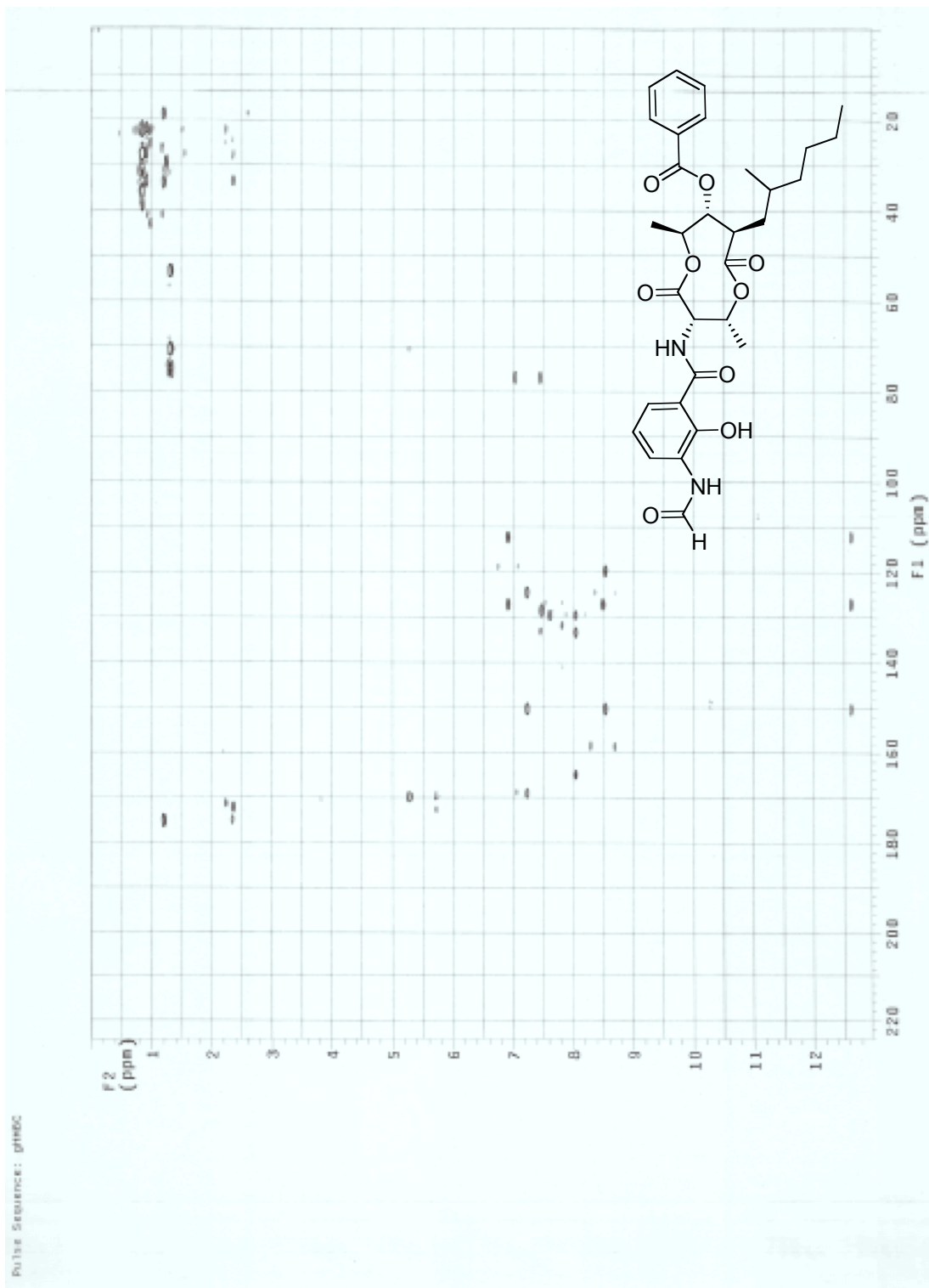
S56. gCOSY NMR Spectrum for Splenocin H (**8**) in CDCl<sub>3</sub>.



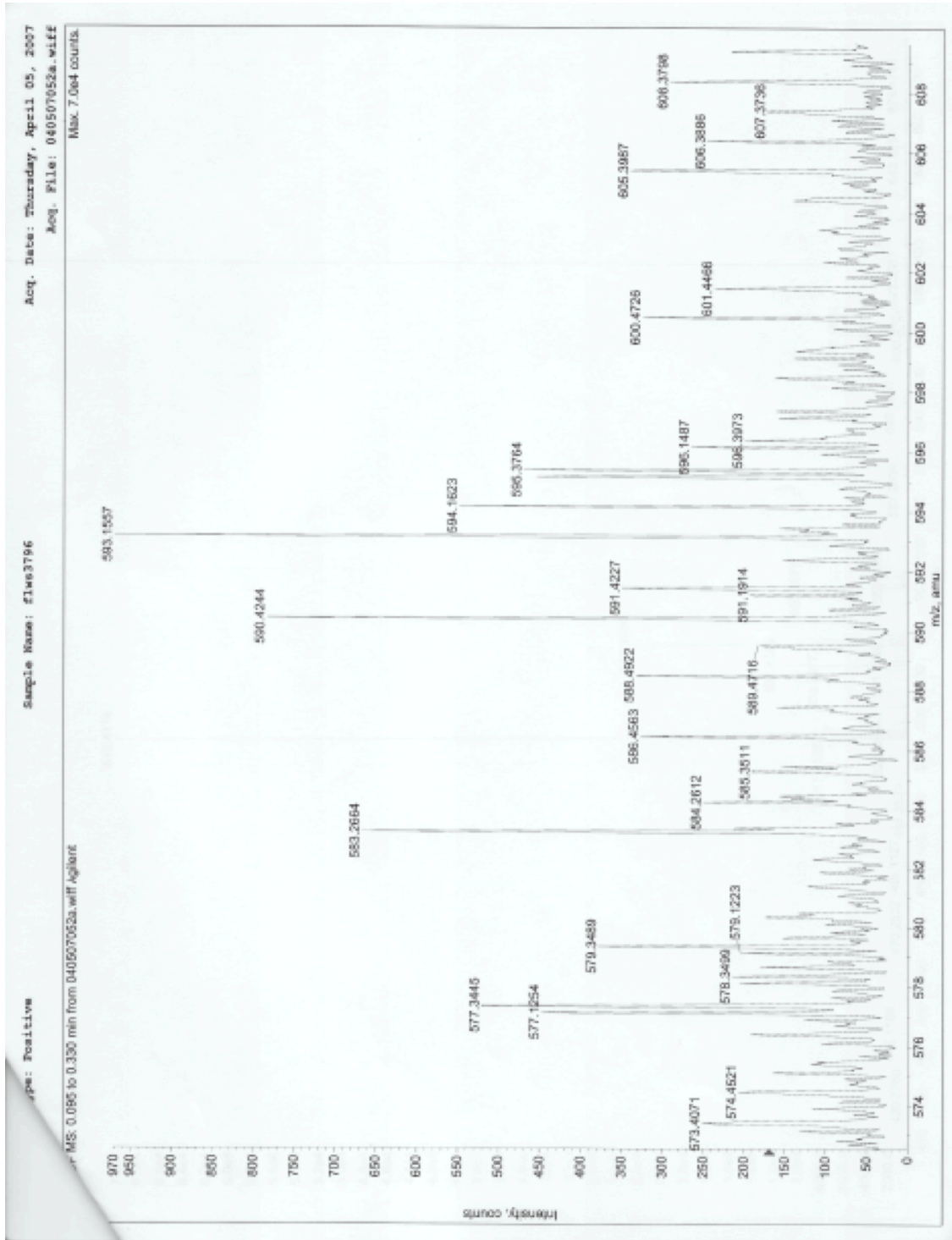
S57. gHSQC NMR Spectrum for Splenocin H (8) in CDCl<sub>3</sub>.



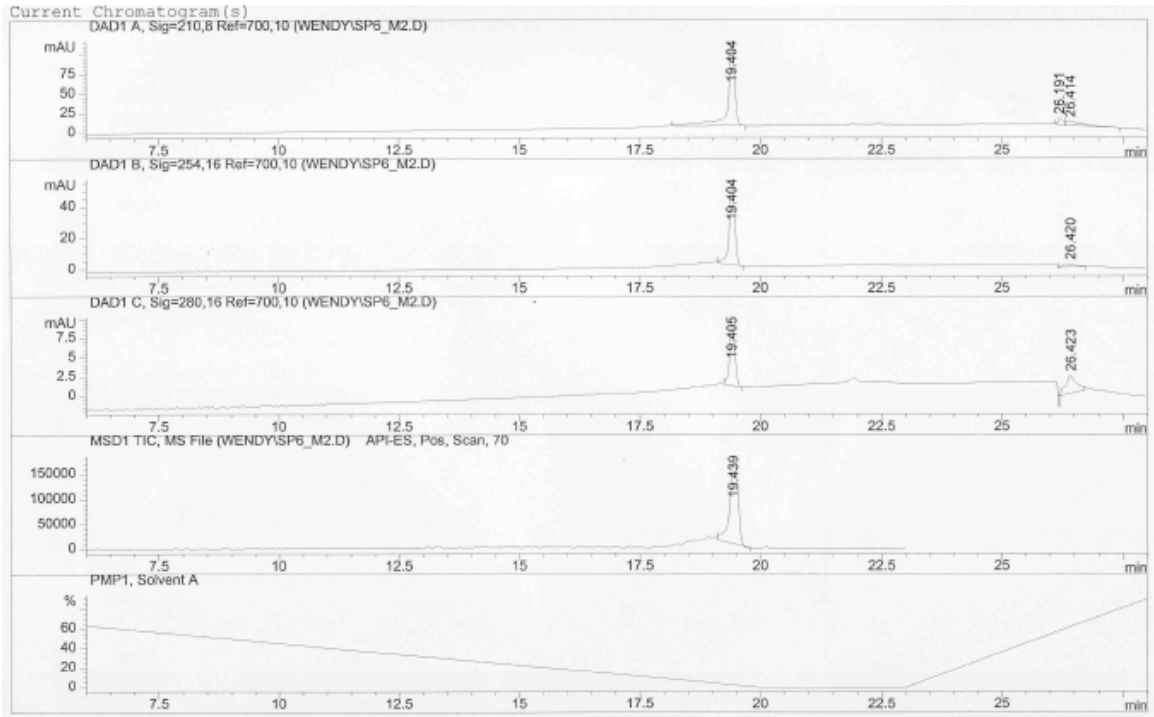
S58. gHMBC NMR Spectrum for Splenocin H (**8**) in CDCl<sub>3</sub>.



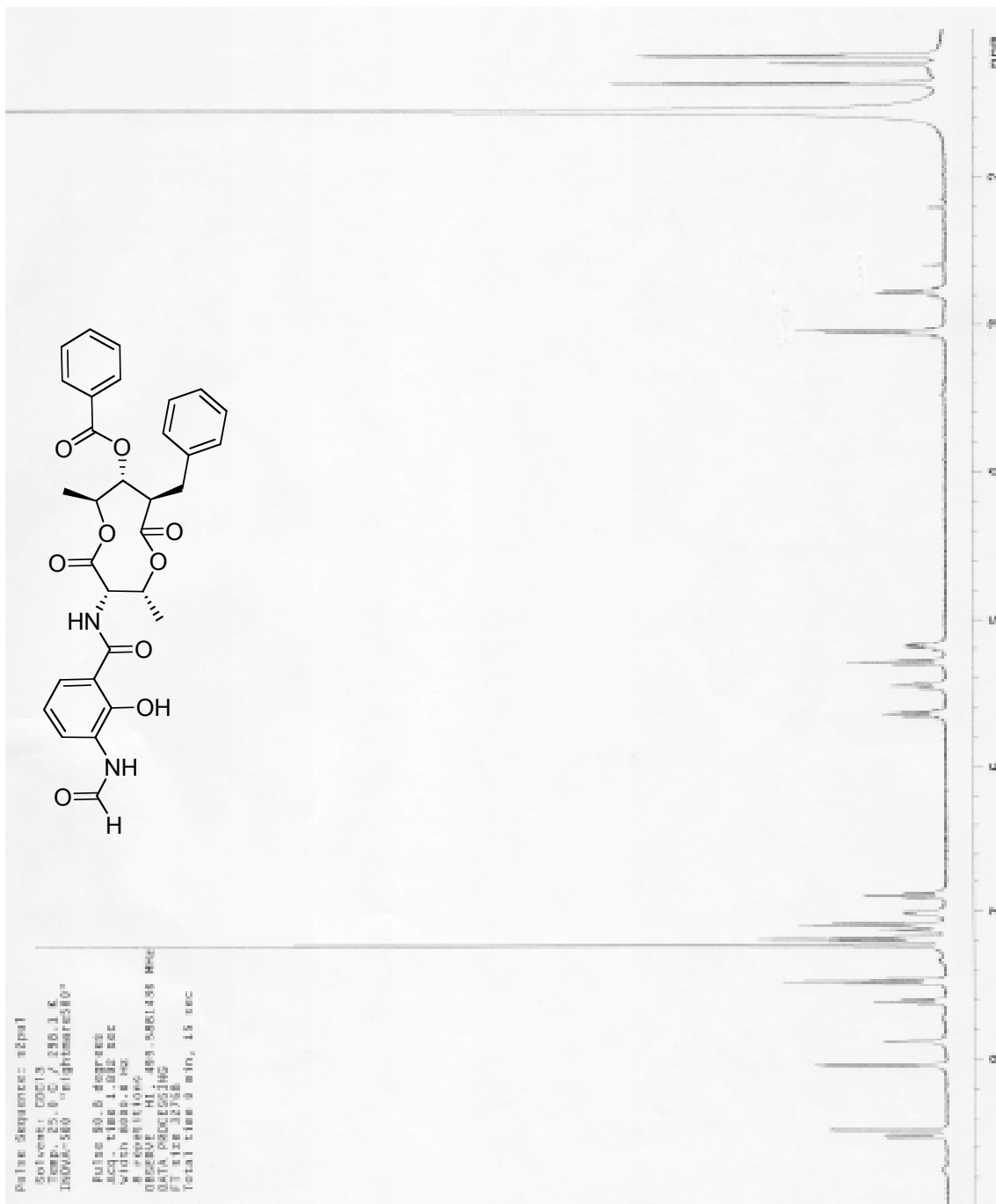
S59. HRMS for Splenocin H (8)



S60. LCMS Trace for Splenocin H (8).

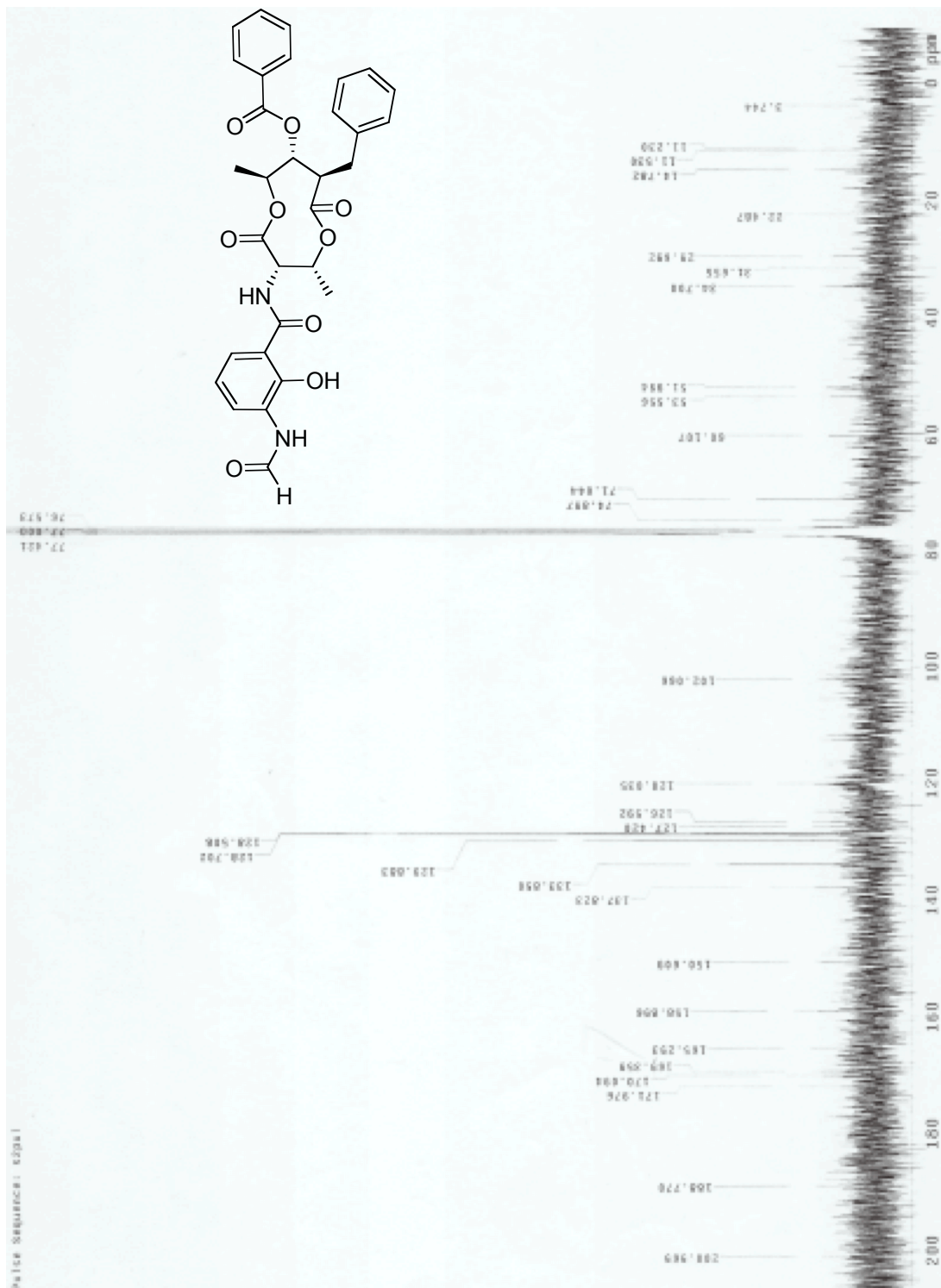


S61.  $^1\text{H}$  NMR Spectrum for Splenocin I (9) in  $\text{CDCl}_3$ .

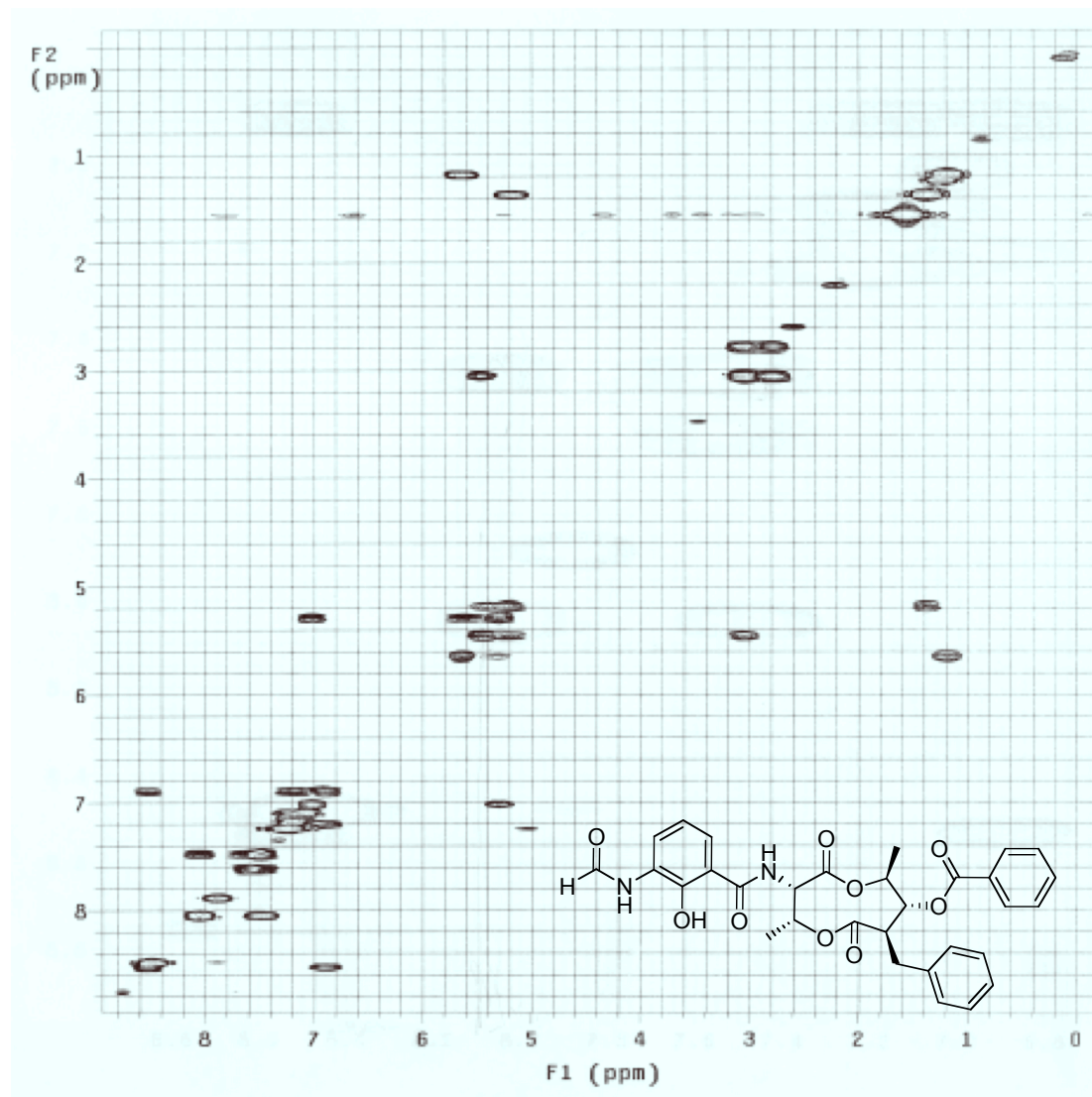




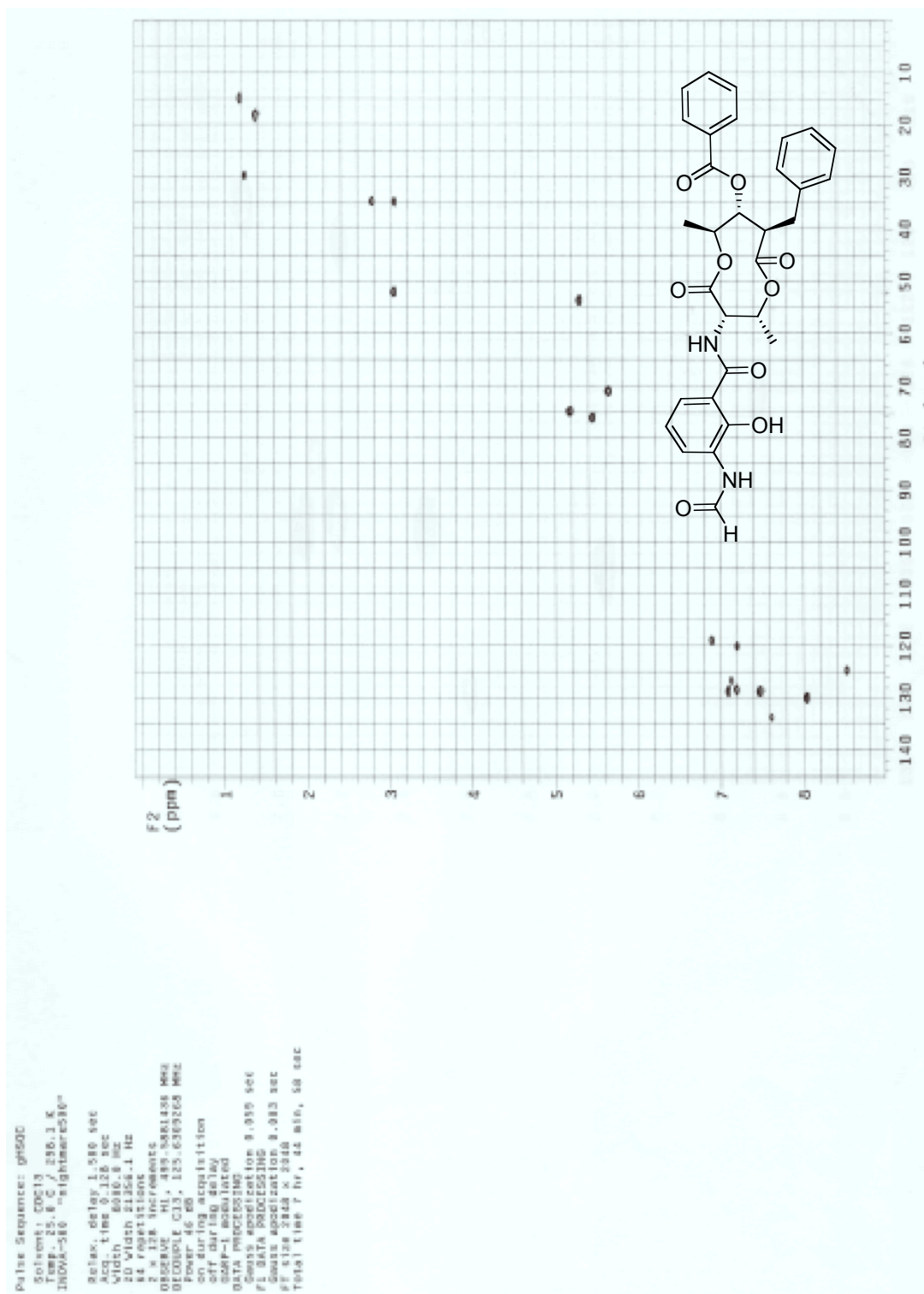
S62.  $^{13}\text{C}$  NMR Spectrum for Splenocin I (9) in  $\text{CDCl}_3$ .



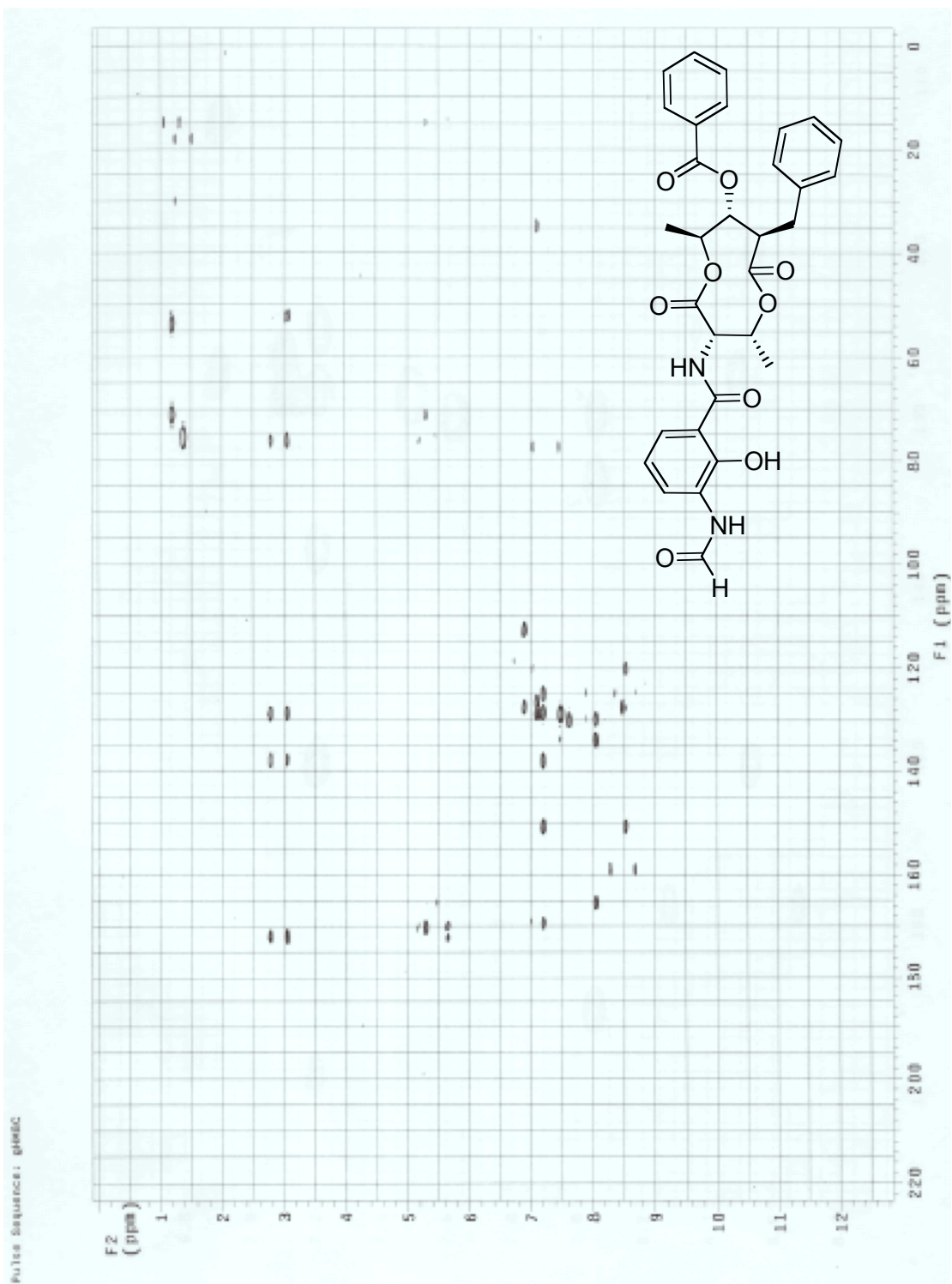
S63. gCOSY NMR Spectrum for Splenocin I (9) in CDCl<sub>3</sub>.



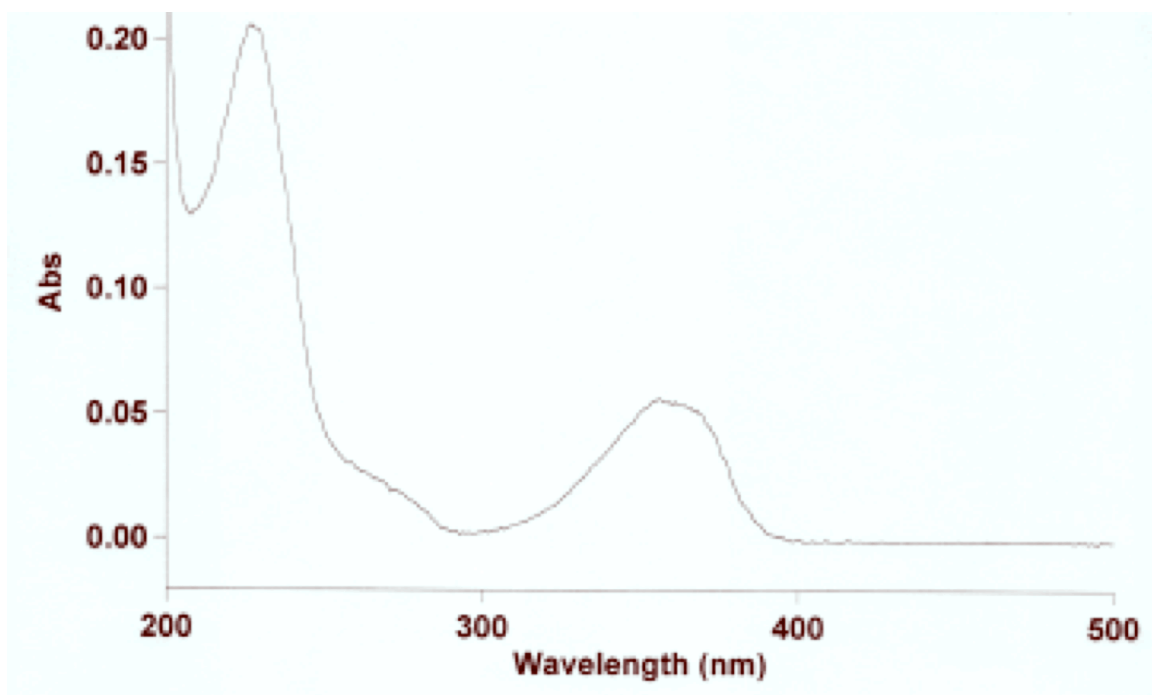
S64. gHSQC NMR Spectrum for Splenocin I (9) in CDCl<sub>3</sub>.



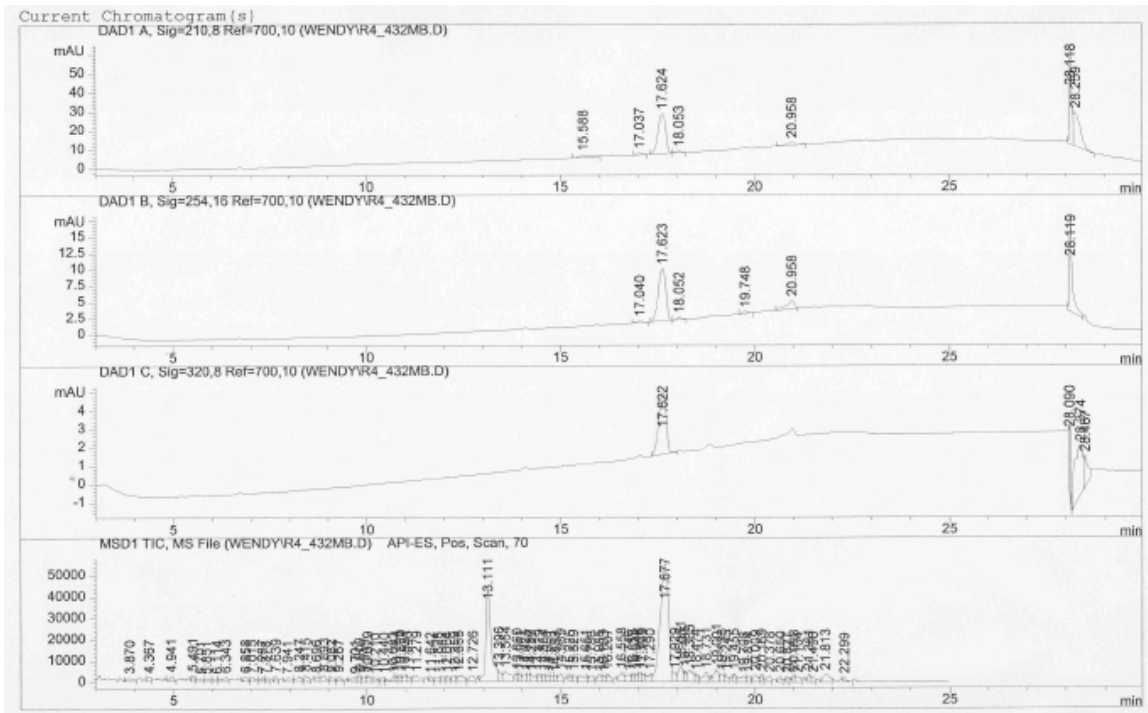
S65. gHMBC NMR Spectrum for Splenocin I (9) in CDCl<sub>3</sub>.



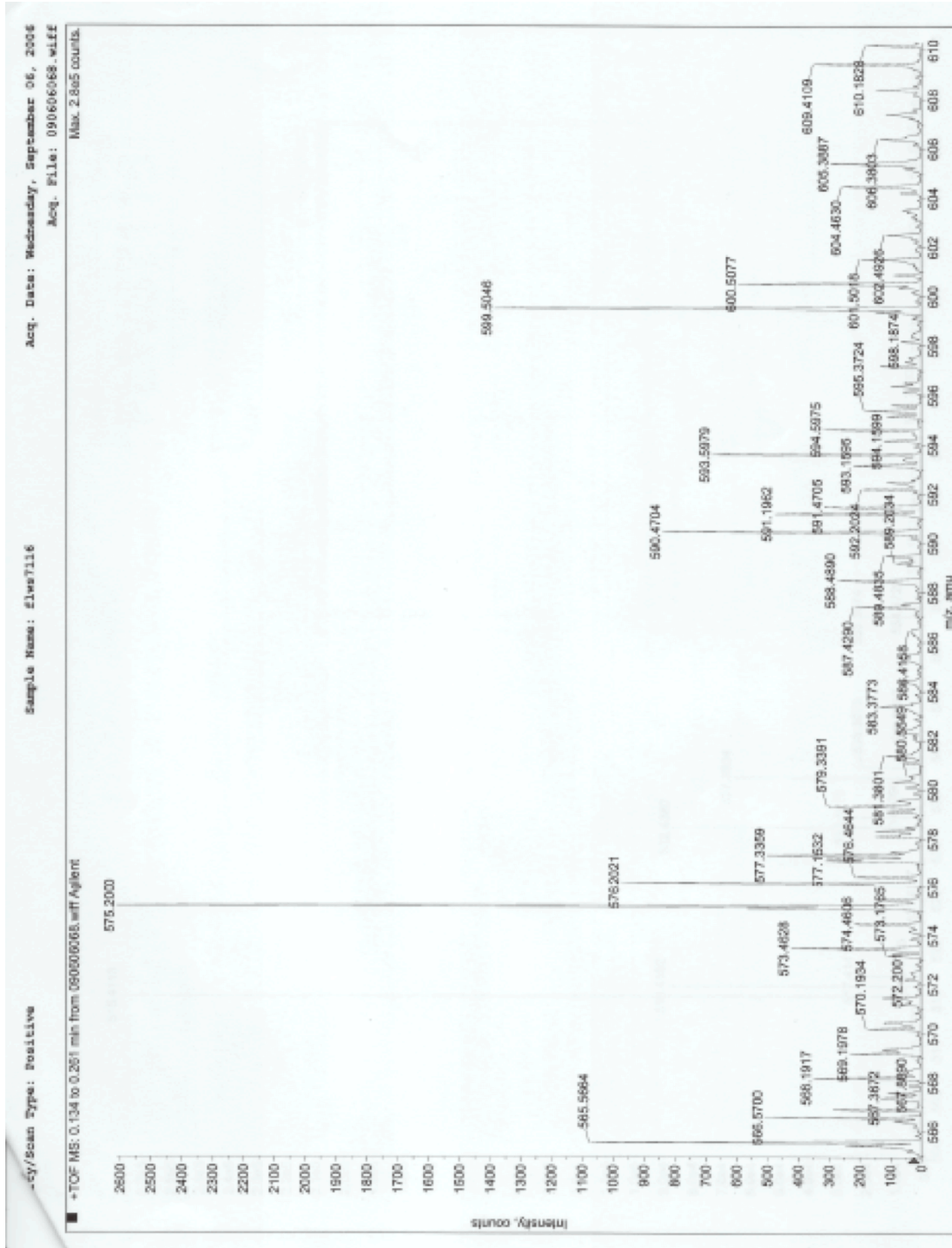
S66. UV Spectrum for Splenocin I (9) in MeCN.



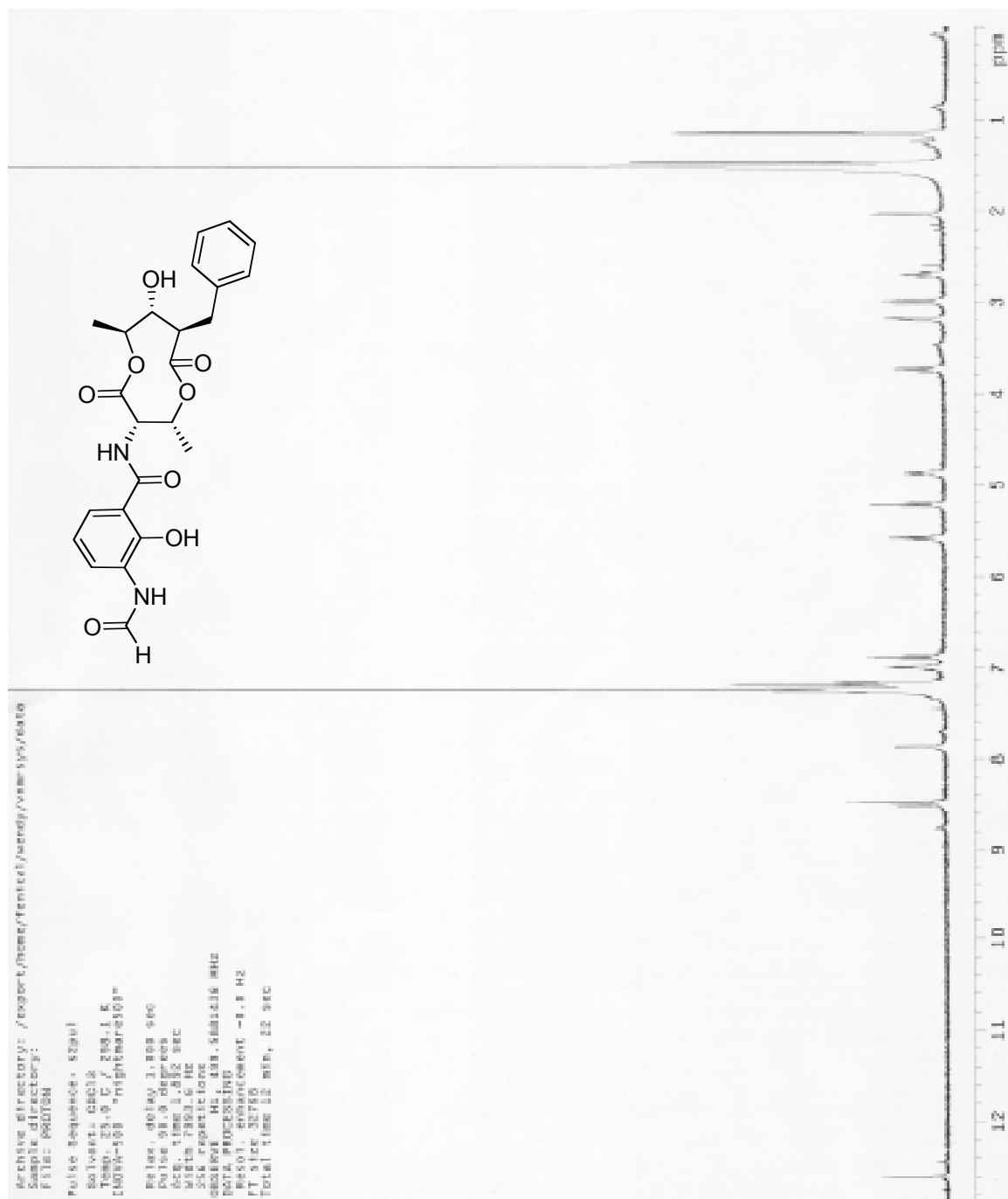
S67. LCMS Trace for Splenocin I (9).



S68. HRMS for Splenocin I (9).

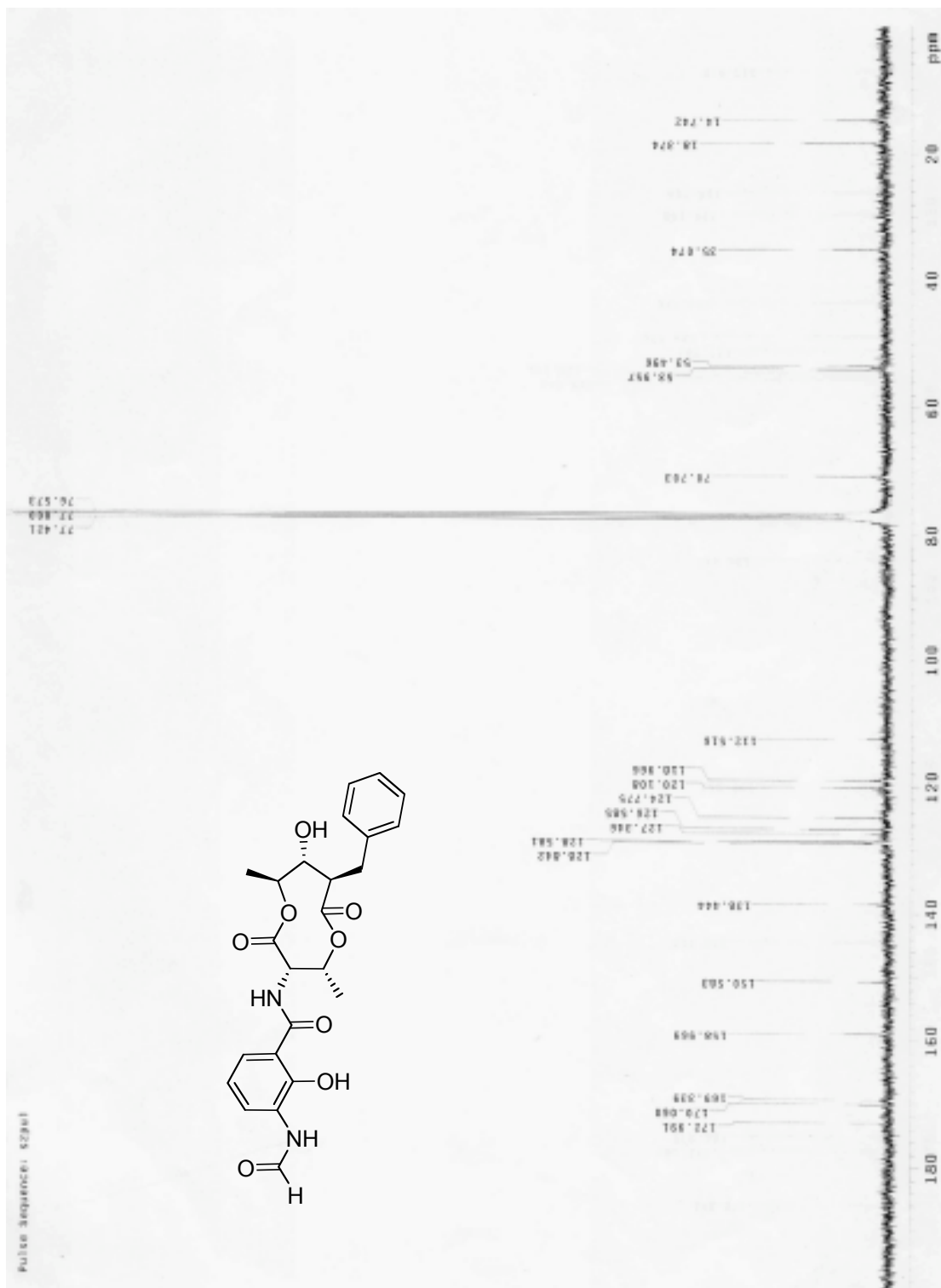


S69.  $^1\text{H}$  NMR Spectrum for Splenocin J (**10**) in  $\text{CDCl}_3$ .

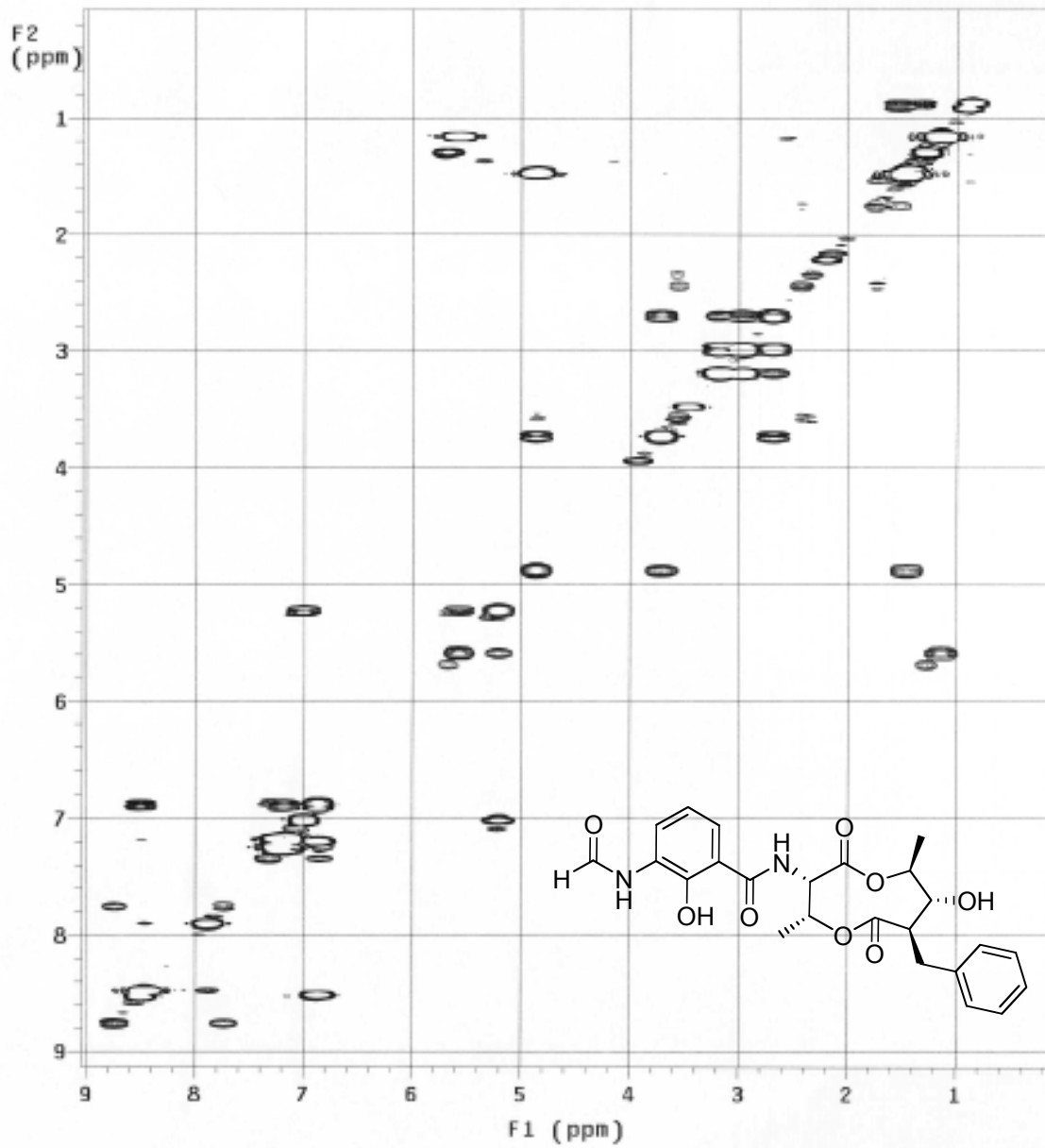




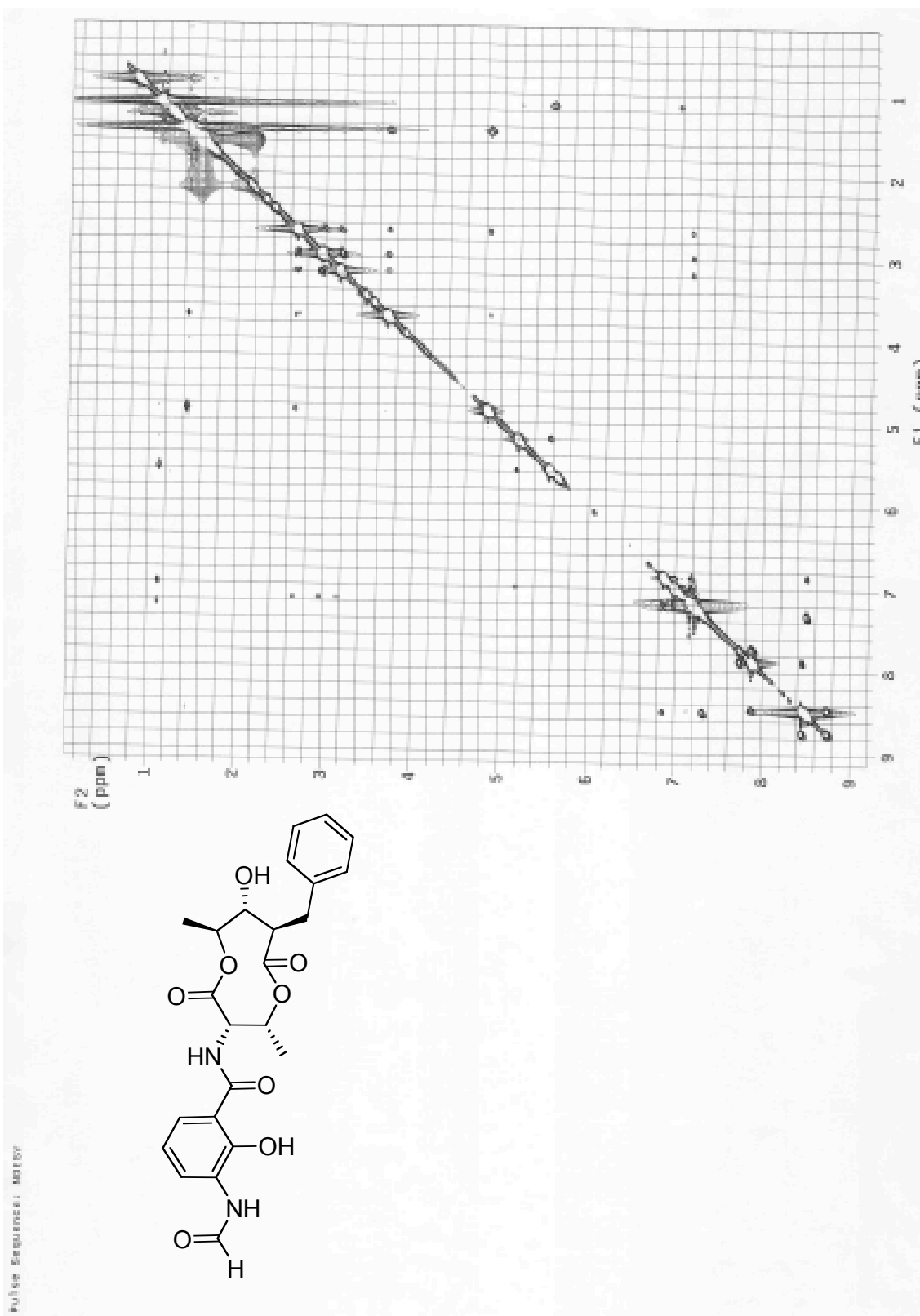
S70.  $^{13}\text{C}$  NMR Spectrum for Splenocin J (**10**) in  $\text{CDCl}_3$ .



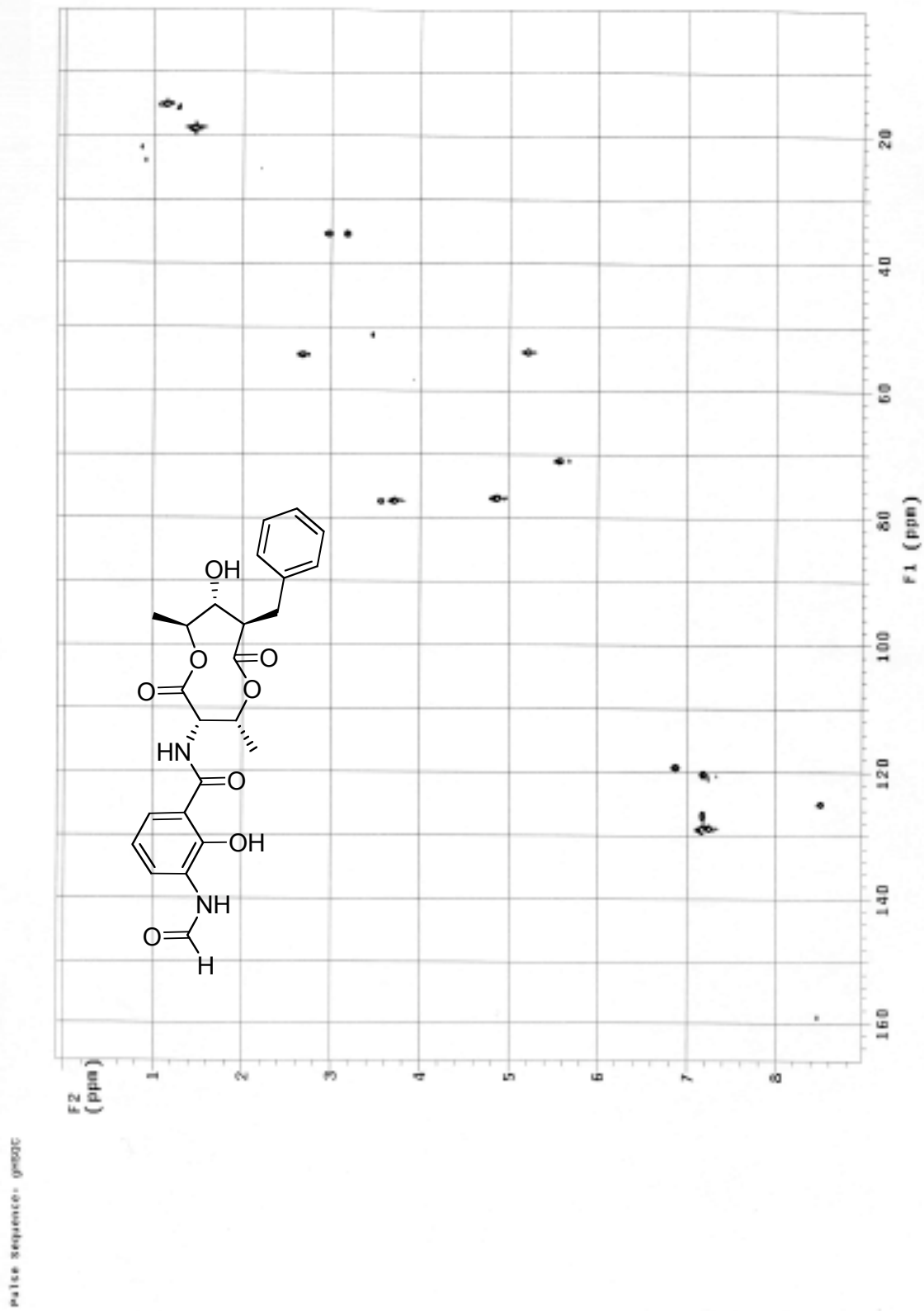
S71. gCOSY NMR Spectrum for Splenocin J (10) in CDCl<sub>3</sub>.



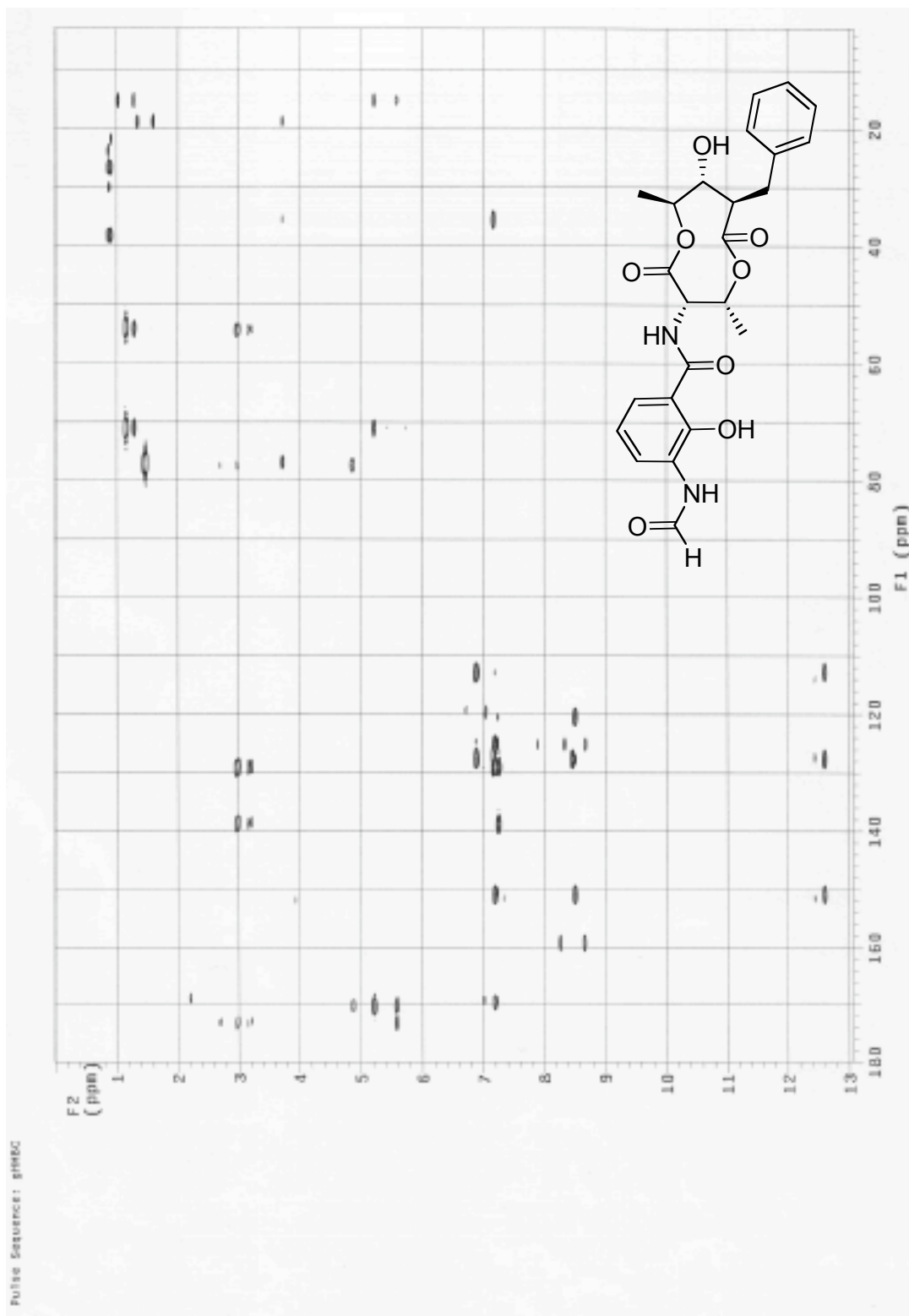
S72. NOESY NMR Spectrum for Splenocin J (**10**) in CDCl<sub>3</sub>.



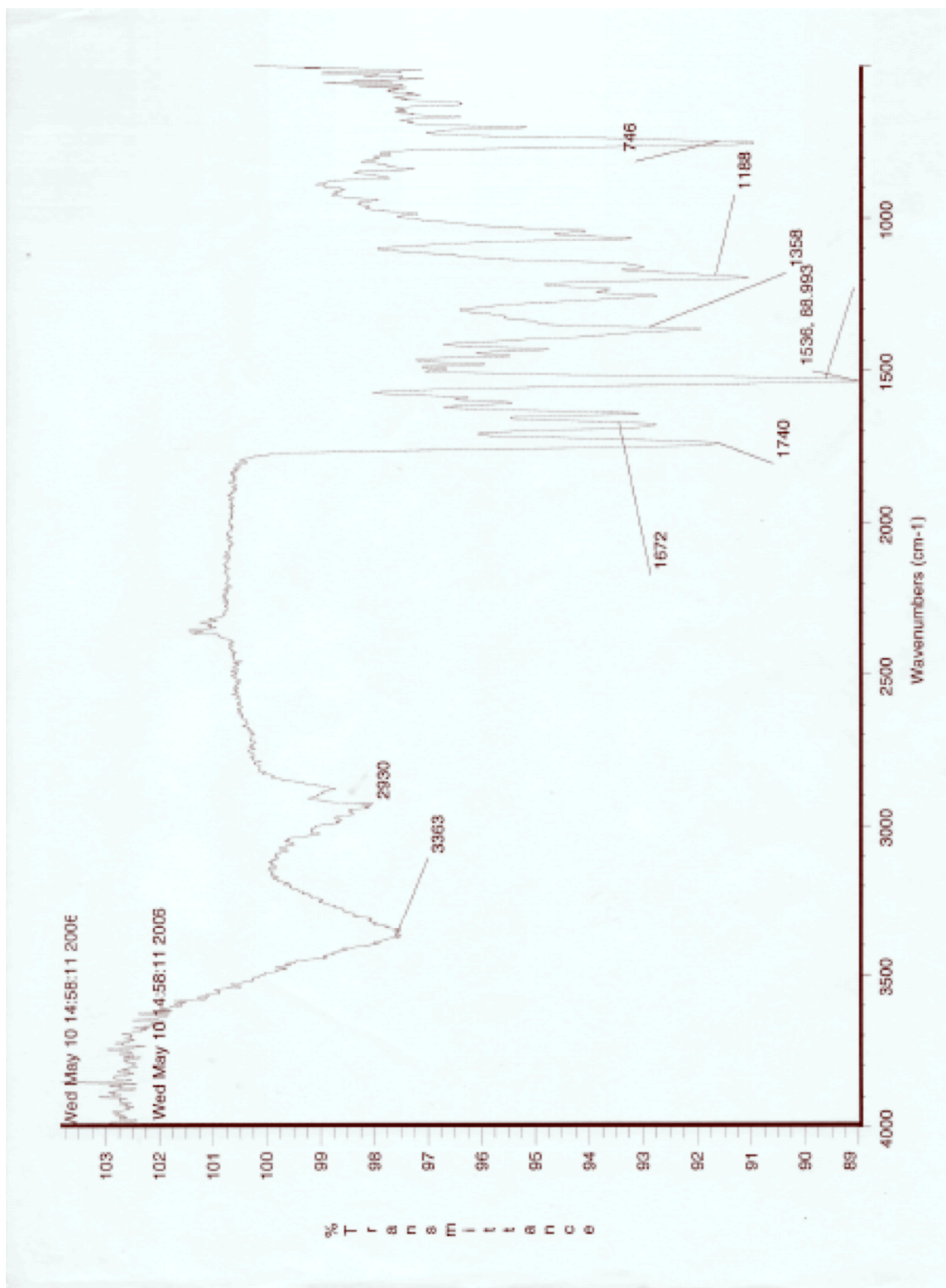
S73. gHSQC NMR Spectrum for Splenocin J (10) in CDCl<sub>3</sub>.



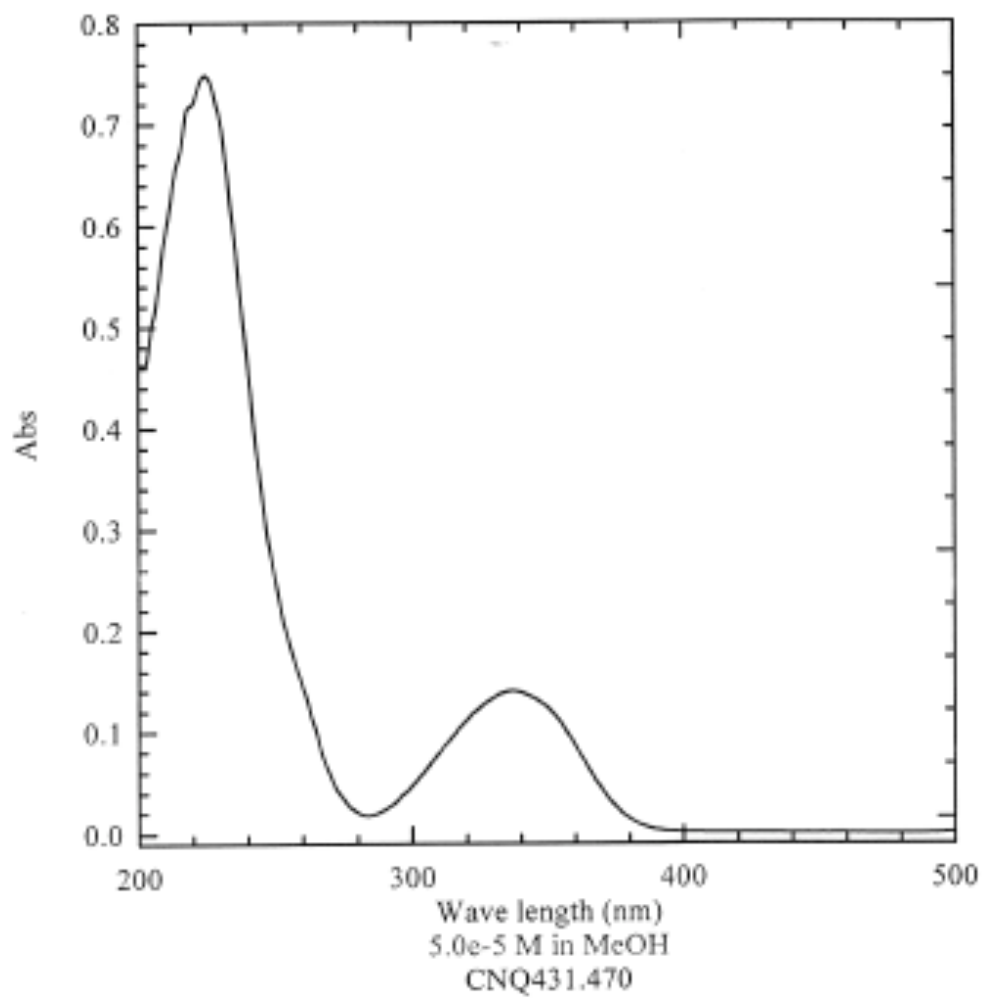
S74. gHMBC NMR Spectrum for Splenocin J (10) in CDCl<sub>3</sub>.



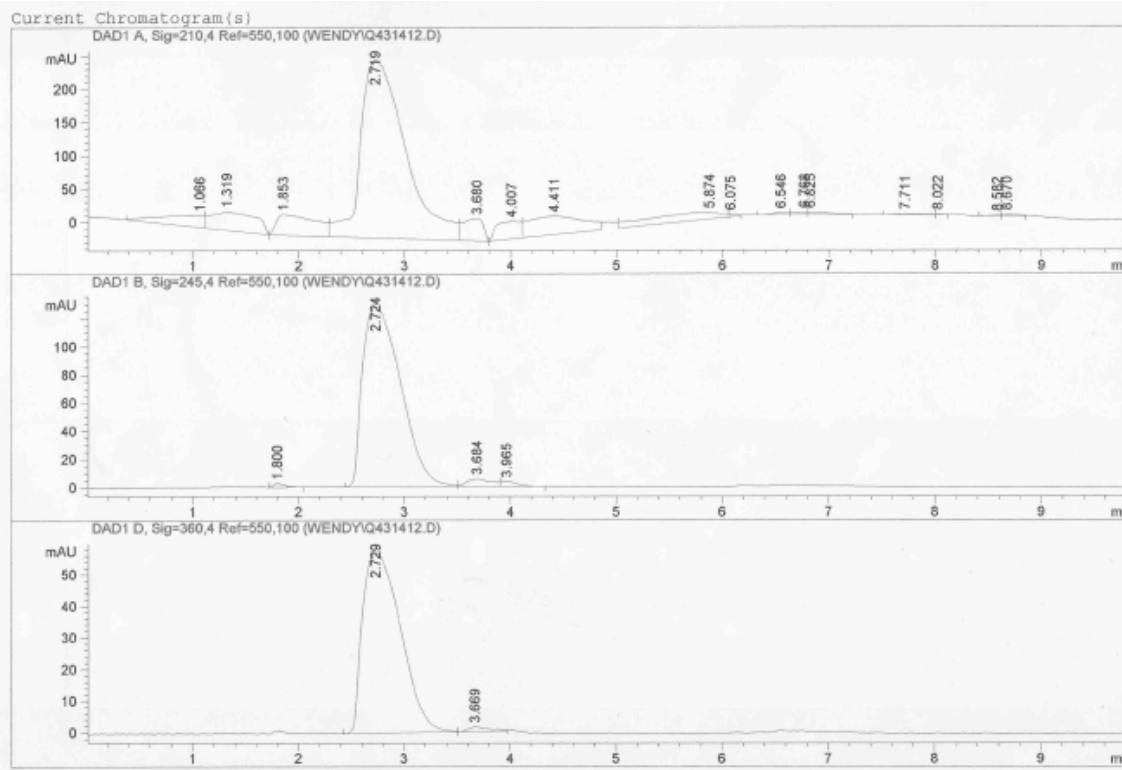
S75. IR spectrum for Splenocin J (10).



S76. UV Spectrum for Splenocin J (**10**) in MeOH.

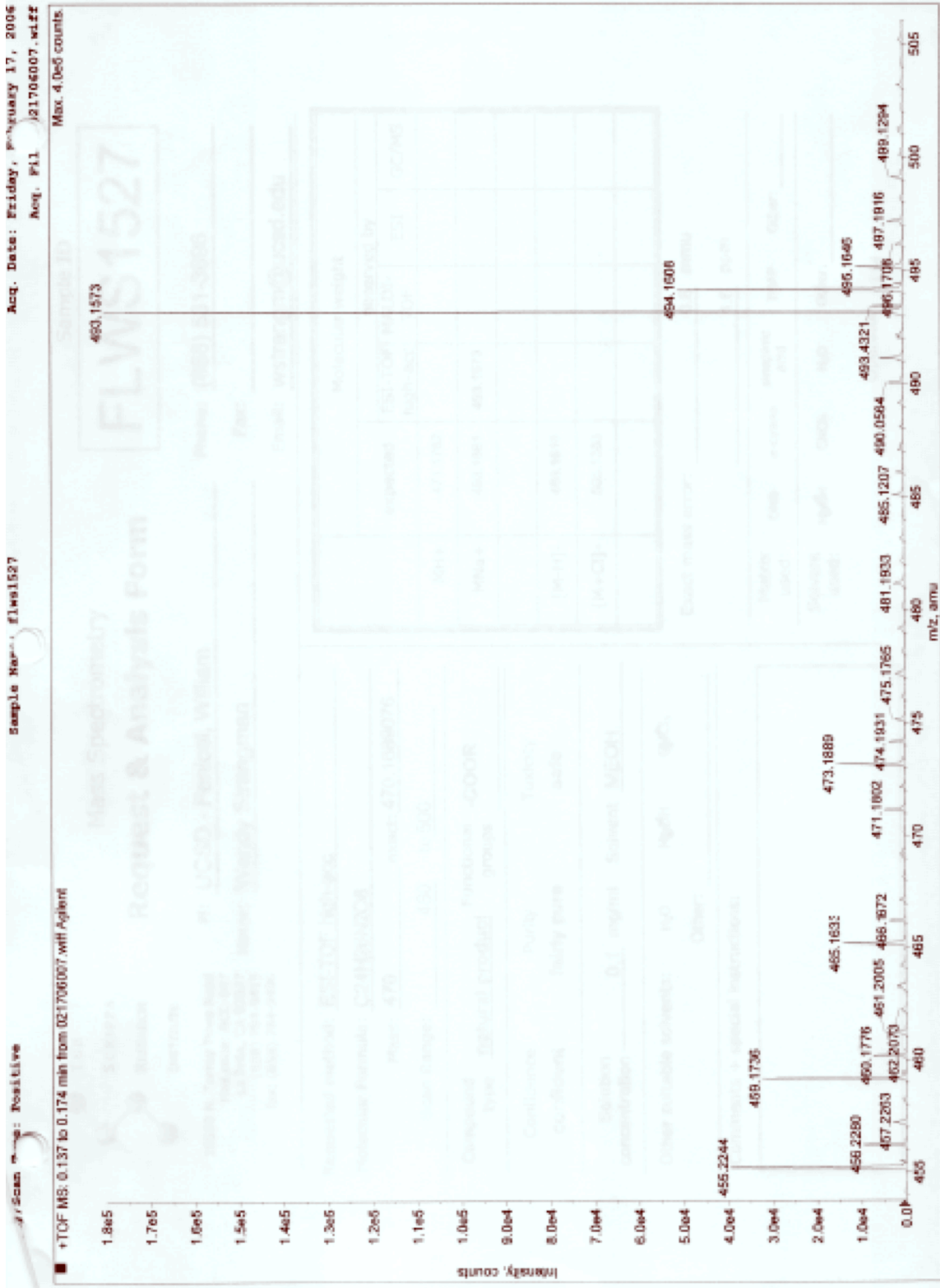


S77. LCMS Trace for Splenocin J (10).





578. HRMS for Splenocin J (10).



S79. <sup>1</sup>H NMR chemical shift data for Di-Mosher and Tri-Mosher products in CDCl<sub>3</sub>.

	<u>S-Mosher Ester</u>	<u>R-Mosher Ester</u>		<u>Sign</u>
	$\delta_{\text{H}}$ ( <i>J</i> in Hz)	$\delta_{\text{H}}$ ( <i>J</i> in Hz)		
H-1'' a	3.006	3.006	$\Delta$ (S-R) – Di-Mosher	0
H-1'' b	3.170	3.168	$\Delta$ (S-R) – Di-Mosher	+0.002
H-7	2.677	2.669	$\Delta$ (S-R) – Di-Mosher	+0.008
H-8	3.705	3.695	$\Delta$ (S-R) – Di-Mosher	+0.010
H-9	4.800	4.776	$\Delta$ (S-R) – Di-Mosher	+0.024
H-9 Me	1.461	1.449	$\Delta$ (S-R) – Di-Mosher	+0.012
H-1'' a	2.957	2.916	$\Delta$ (S-R) – Tri-Mosher	+0.041
H-1'' b	2.493	2.496	$\Delta$ (S-R) – Tri-Mosher	-0.003
H-7	2.823	2.811	$\Delta$ (S-R) – Tri-Mosher	+0.012
H-8	5.283	5.276	$\Delta$ (S-R) – Tri-Mosher	+0.007
H-9	4.942	4.931	$\Delta$ (S-R) – Tri-Mosher	+0.011
H-9 Me	1.220	1.227	$\Delta$ (S-R) – Tri-Mosher	-0.007
H-1'' a			$\Delta$ (S-R) – (Tri–Di) Mosher	+0.041
H-1'' b			$\Delta$ (S-R) – (Tri–Di) Mosher	-0.005
H-7			$\Delta$ (S-R) – (Tri–Di) Mosher	+0.004
H-8			$\Delta$ (S-R) – (Tri–Di) Mosher	+0.006
H-9			$\Delta$ (S-R) – (Tri–Di) Mosher	-0.013
H-9 Me			$\Delta$ (S-R) – (Tri–Di) Mosher	-0.019

S80. CD Spectra for Splenocins A-J (1-10) and 8-Hydroxy Antimycin in CH<sub>3</sub>CN.

