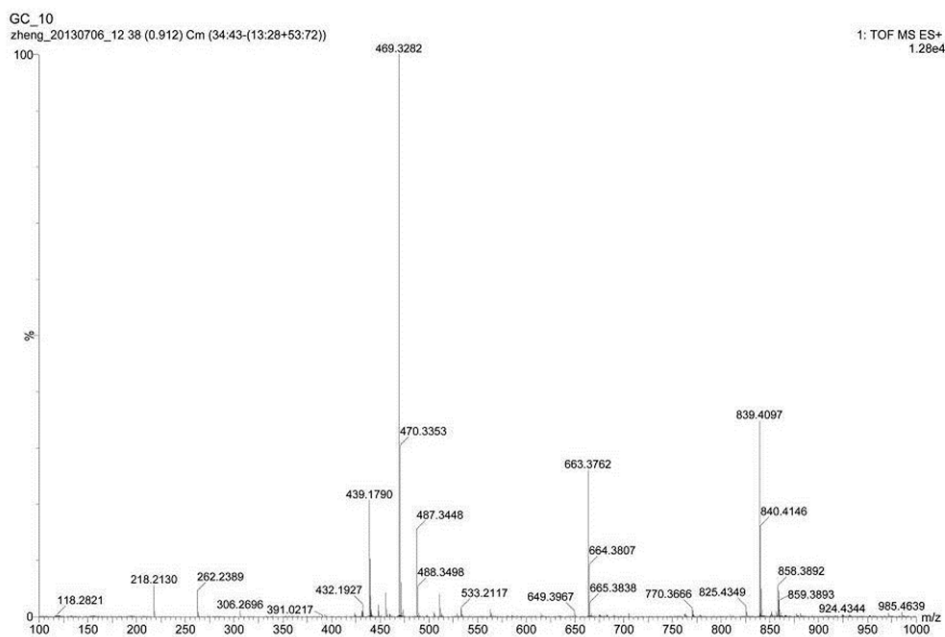


# Supplementary Materials

**Table S1.**  $^{13}\text{C}$  ( $\text{C}_5\text{D}_5\text{N}$ , 500 MHz) NMR spectral data of compounds **4**.

Position	<b>4</b>		Position	<b>4</b>	
	$\delta_{\text{C}}$	mult		$\delta_{\text{C}}$	mult
1	40.3	CH <sub>2</sub>	22	36.6	CH <sub>2</sub>
2	27.3	CH <sub>2</sub>	23	23.7	CH <sub>3</sub>
3	90.4	CH	24	64.2	CH <sub>2</sub>
4	45.2	qC	25	17.4	CH <sub>3</sub>
5	56.7	CH	26	19.4	CH <sub>3</sub>
6	19.1	CH <sub>2</sub>	27	24.3	CH <sub>3</sub>
7	33.9	CH <sub>2</sub>	28	29.3	CH <sub>3</sub>
8	46.4	qC	29	20.6	CH <sub>3</sub>
9	62.7	CH	30	181.7	qC
10	37.8	qC	1'	105.3	CH
11	200.5	qC	2'	81.6	CH
12	129.4	CH	3'	78.6	CH
13	170.6	qC	4'	78.3	CH
14	44.4	qC	5'	74.1	CH
15	27.4	CH <sub>2</sub>	6'	173.4	qC
16	27.3	CH <sub>2</sub>	1''	105.5	CH
17	33.3	qC	2''	76.5	CH
18	47.5	CH	3''	78.5	CH
19	40.6	CH <sub>2</sub>	4''	78.4	CH
20	43.4	qC	5''	73.9	CH
21	30.5	CH <sub>2</sub>	6''	173.2	qC



**Figure S1.** HRESIMS spectrum of **1**.

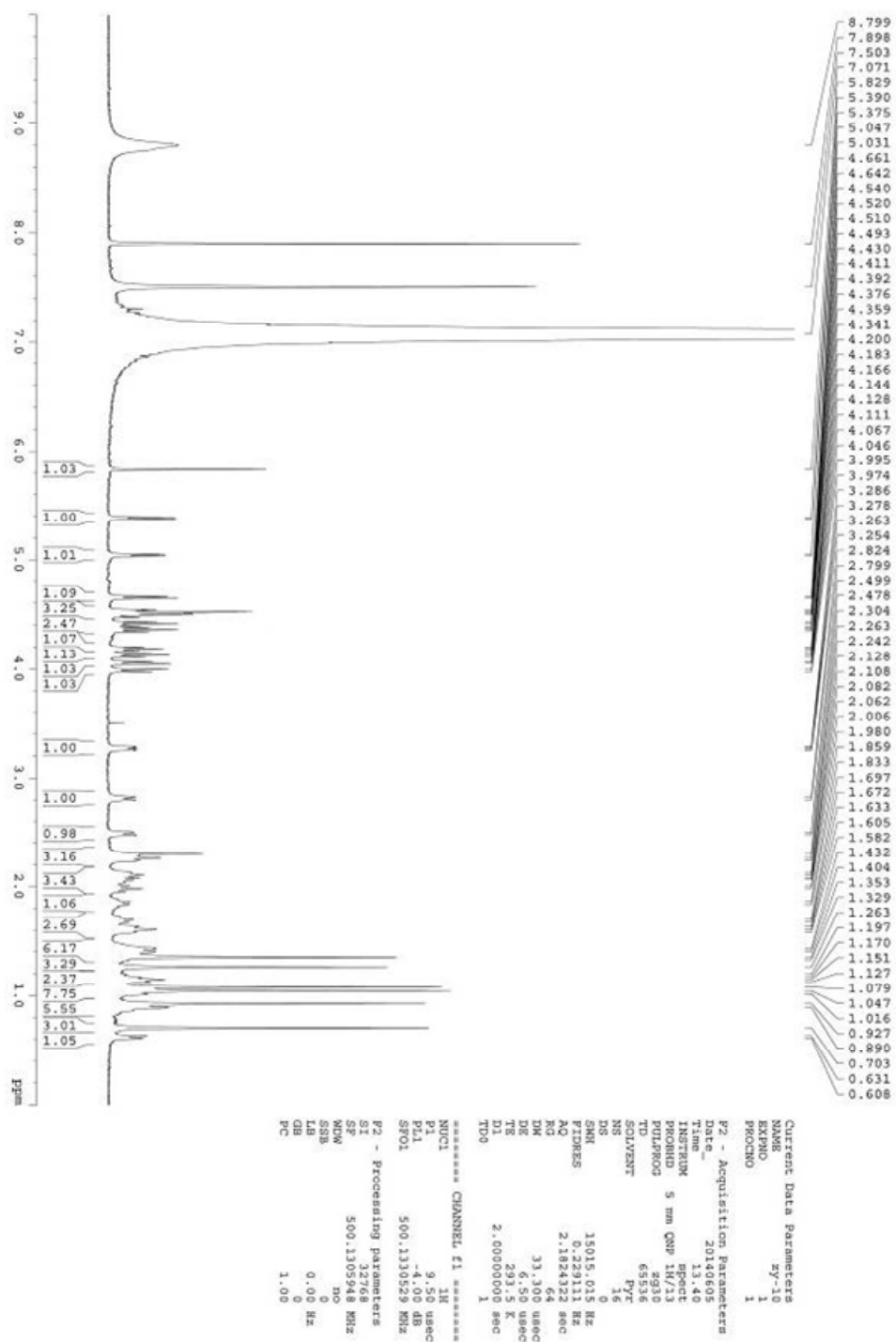


Figure S2.  $^1\text{H}$ -NMR spectrum of **1** (500 MHz,  $\text{C}_5\text{D}_5\text{N}$ ).

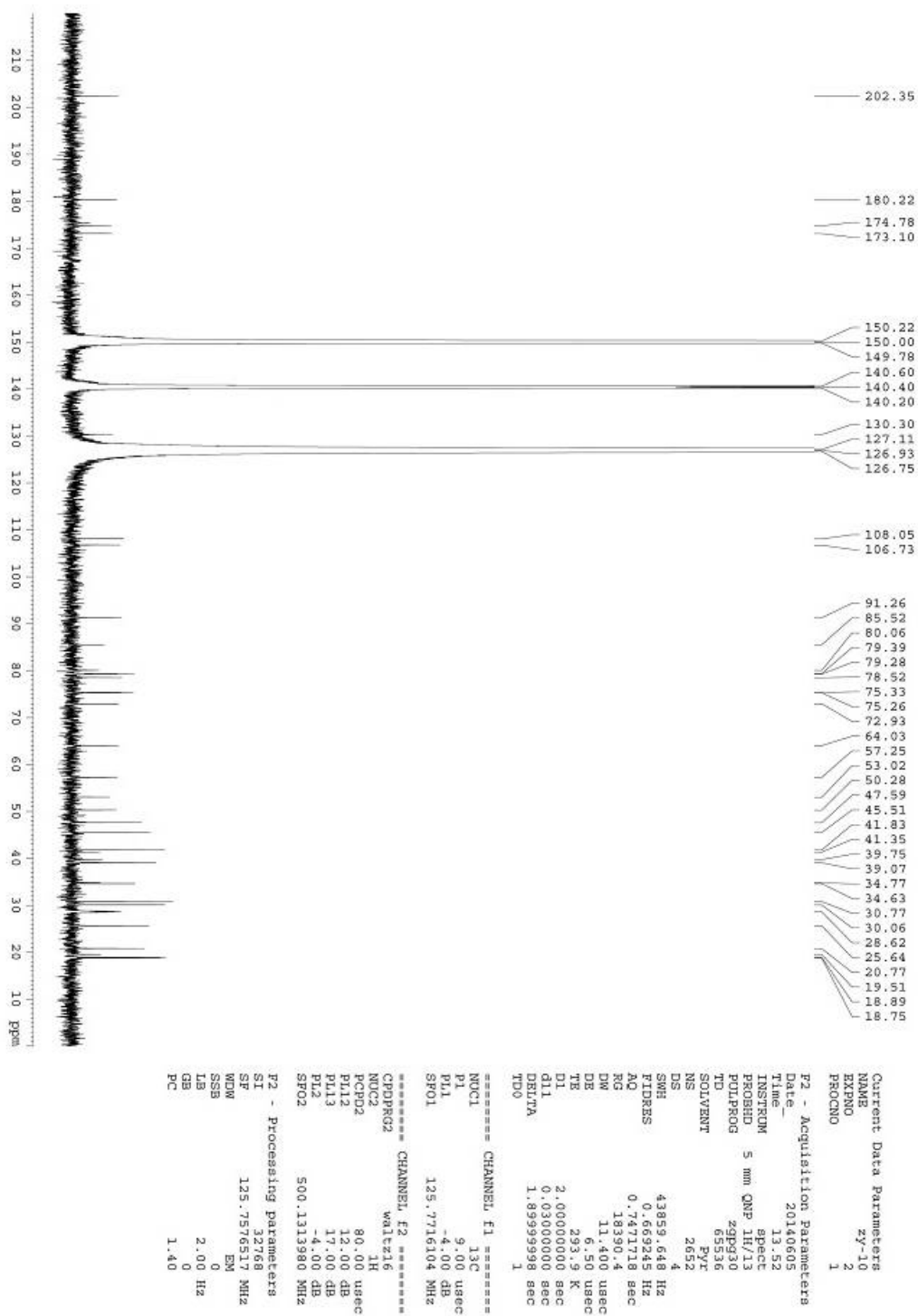
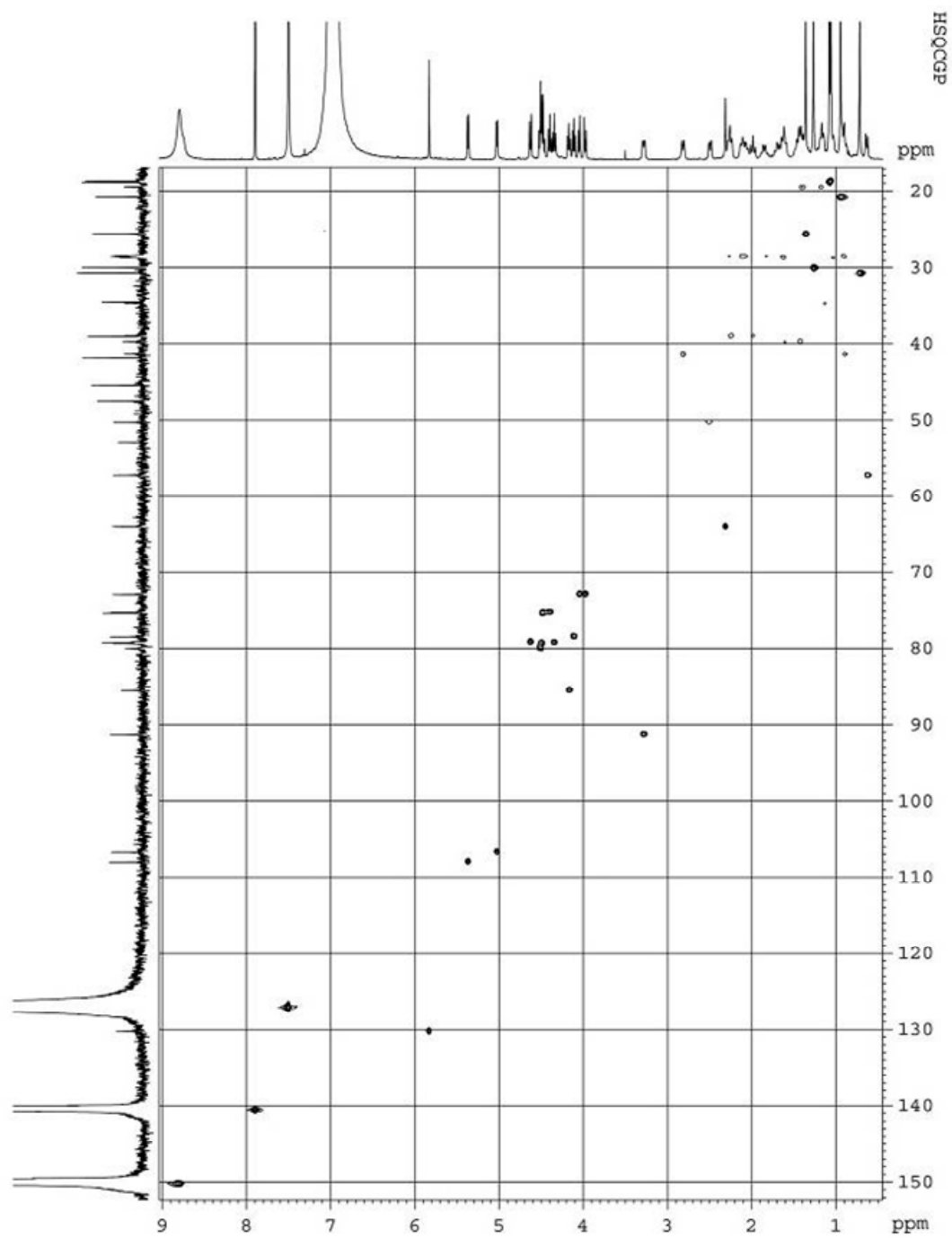


Figure S3.  $^{13}\text{C}$ -NMR spectrum of **1** (500 MHz,  $\text{C}_5\text{D}_5\text{N}$ ).



**Figure S4.** HSQC spectrum of **1** (500 MHz,  $\text{C}_5\text{D}_5\text{N}$ ).

COSY

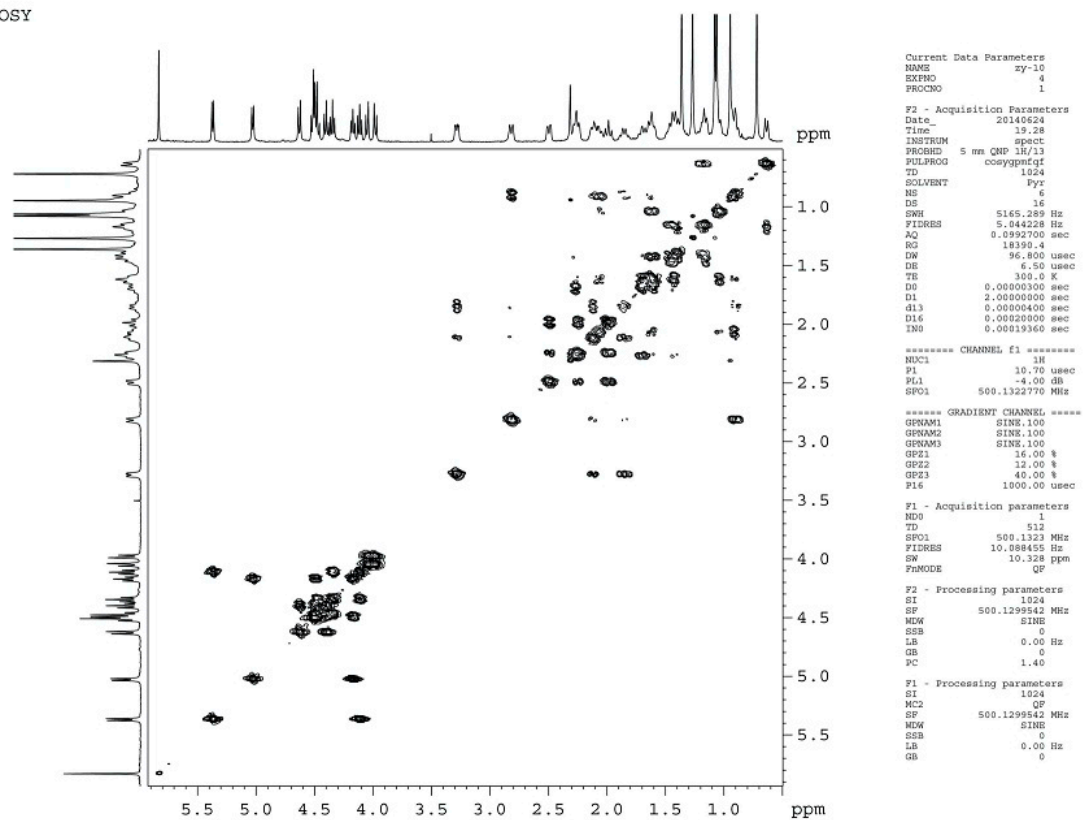
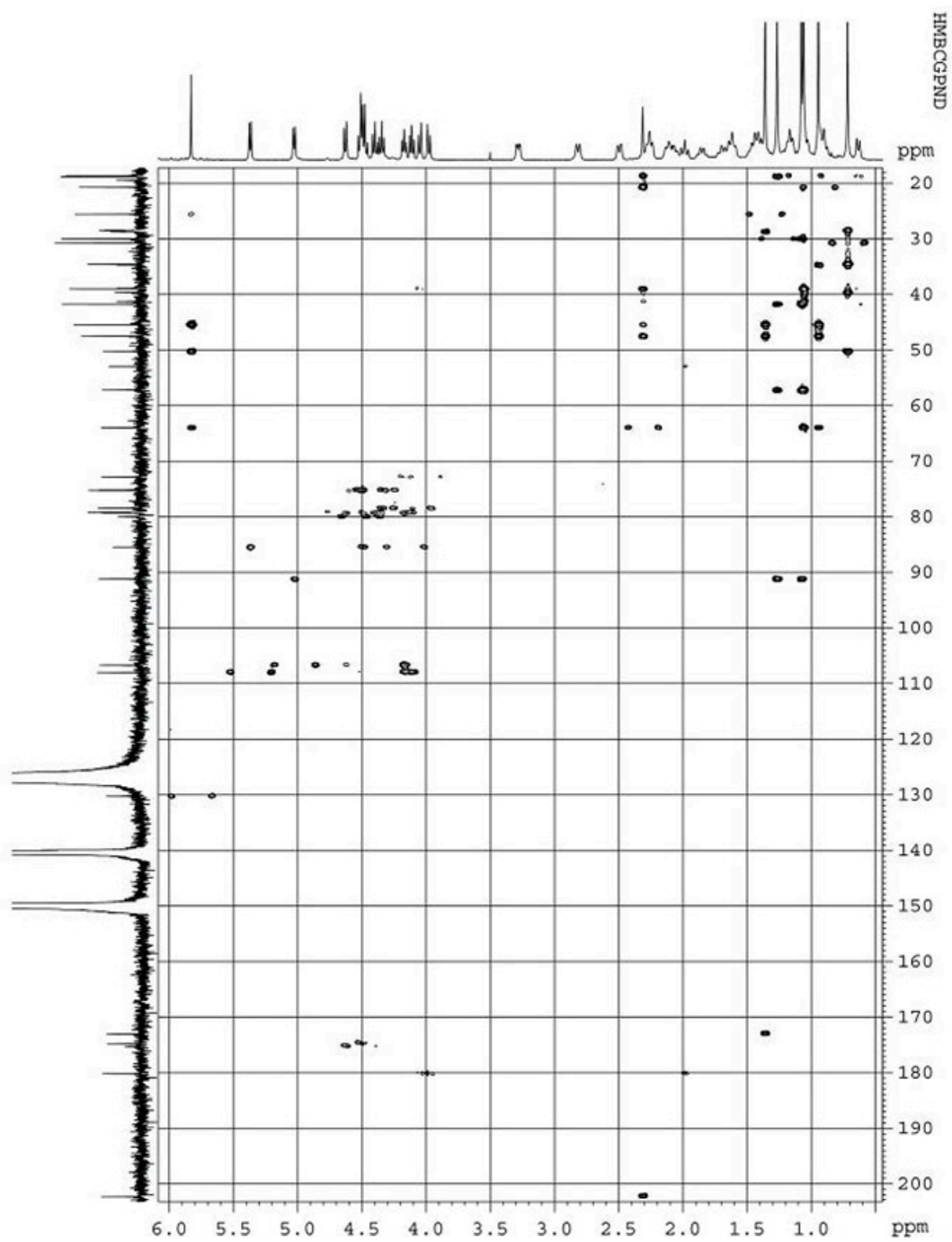
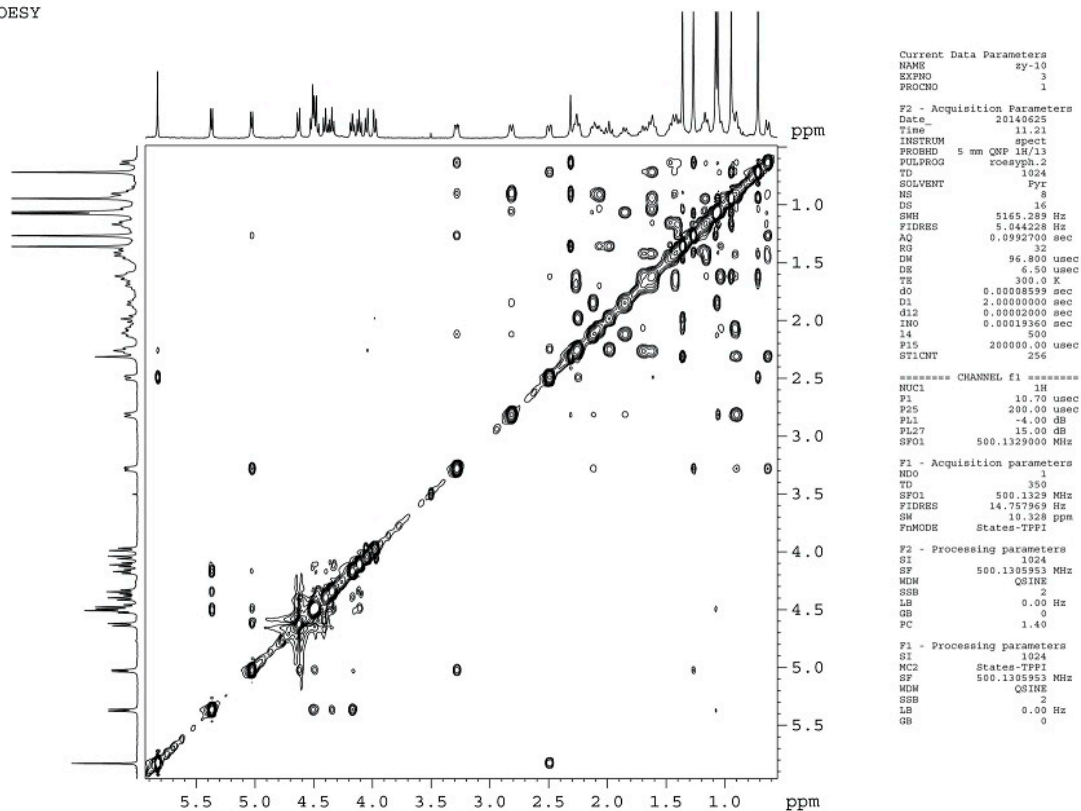
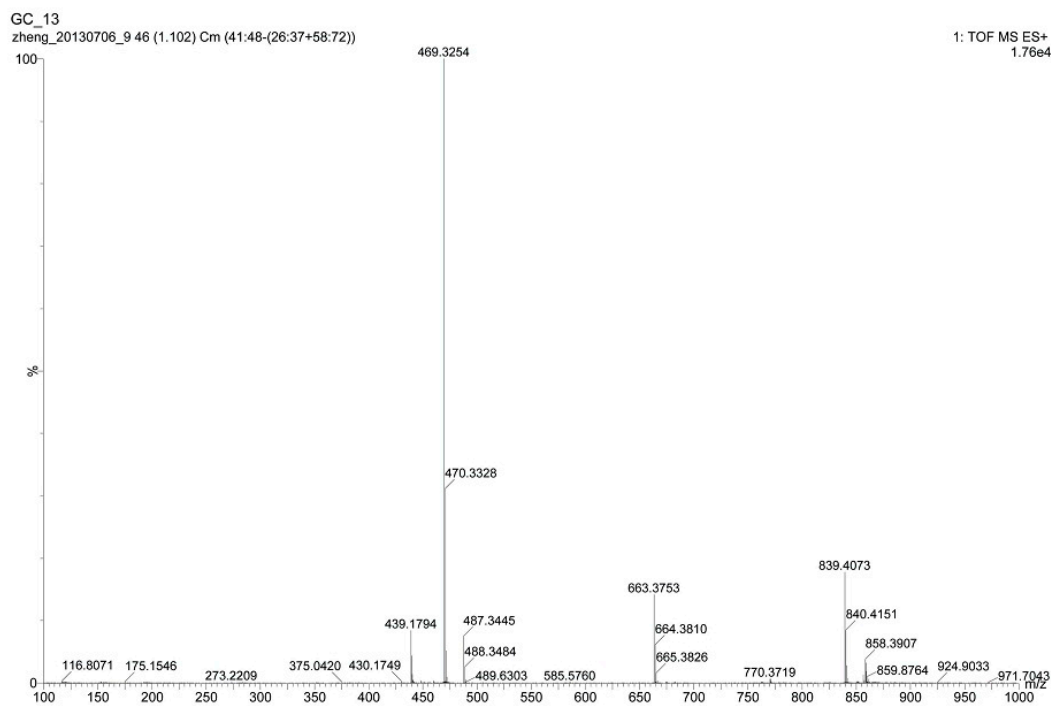


Figure S5. H-H COSY spectrum of **1** (500 MHz, C<sub>5</sub>D<sub>5</sub>N).



**Figure S6.** HMBC spectrum of **1** (500 MHz,  $\text{C}_5\text{D}_5\text{N}$ ).

NOESY

Figure S7. NOESY spectrum of **1** (500 MHz, C<sub>5</sub>D<sub>5</sub>N).

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Figure S8. HRESIMS spectrum of **2**.

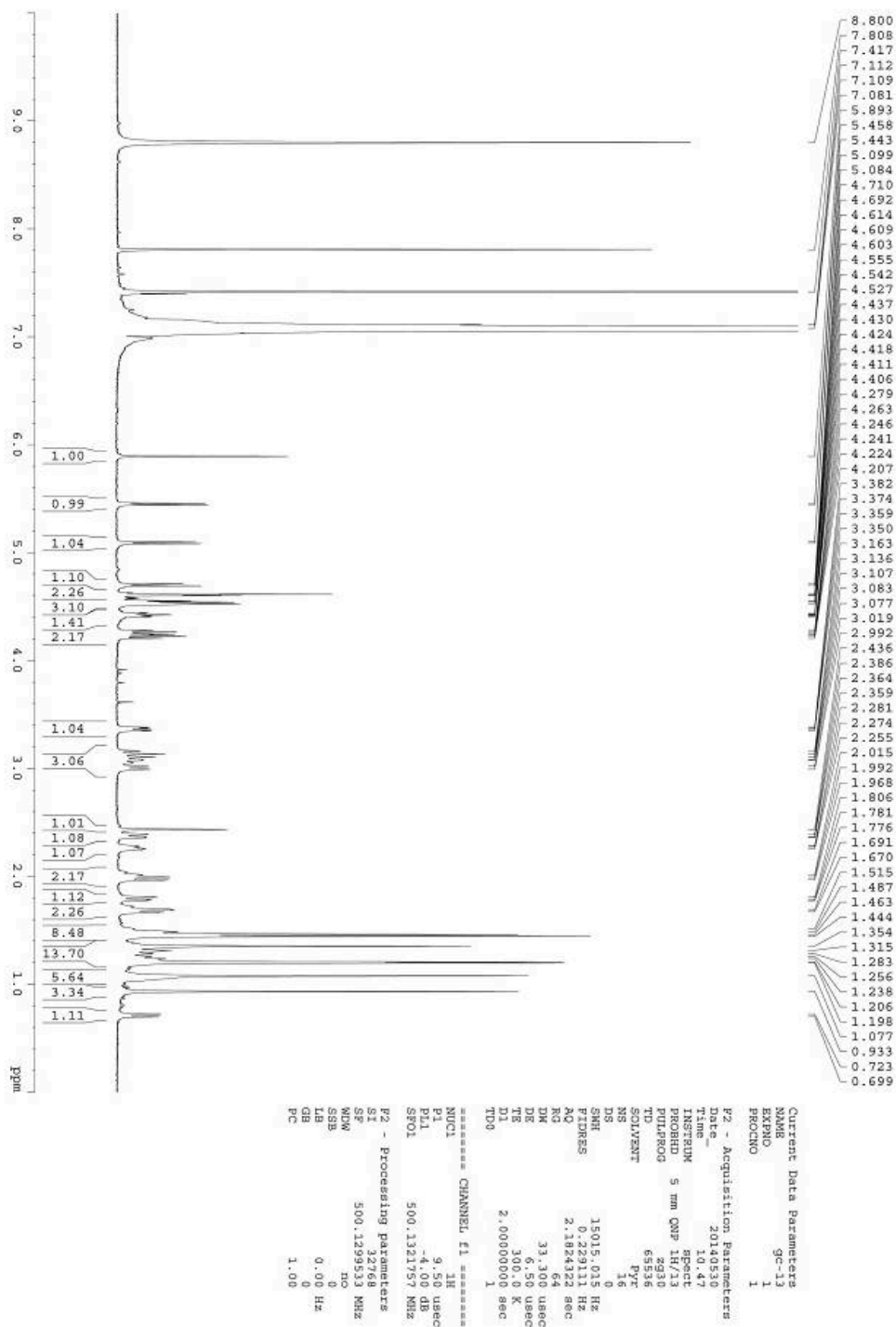


Figure S9.  $^1\text{H}$ -NMR spectrum of **2** (500 MHz,  $\text{C}_5\text{D}_5\text{N}$ ).



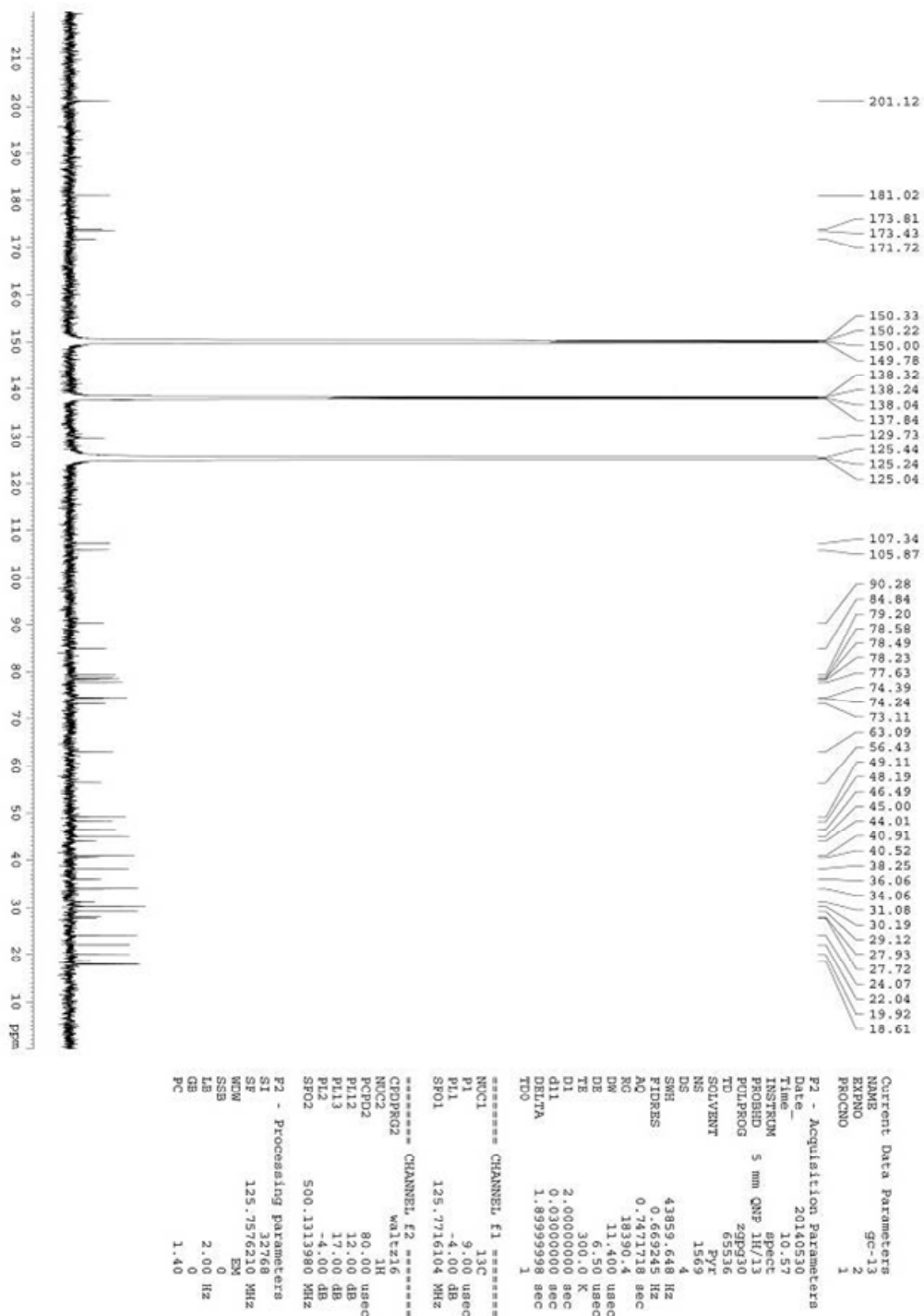
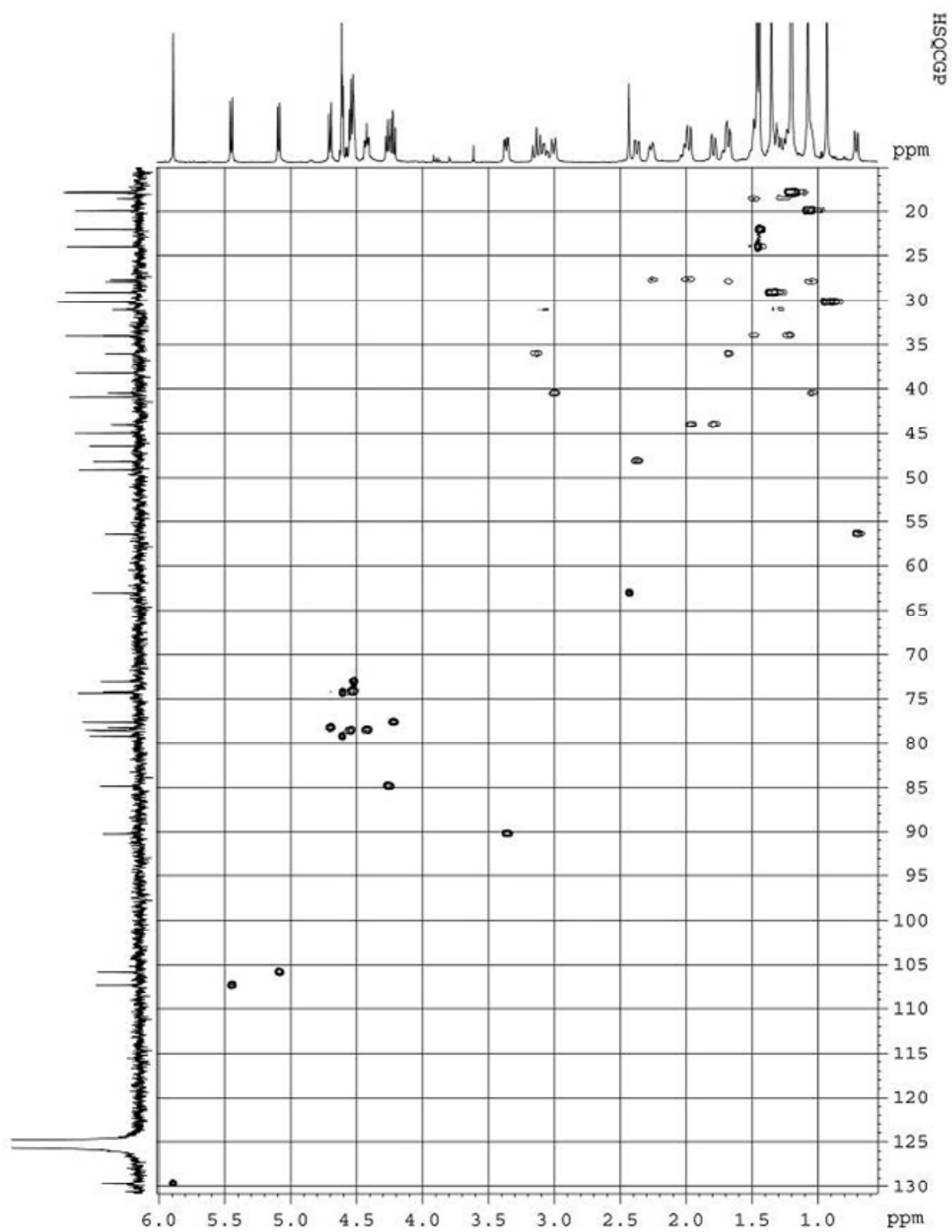


Figure S10.  $^{13}\text{C}$ -NMR spectrum of **2** (500 MHz,  $\text{C}_5\text{D}_5\text{N}$ ).



**Figure S11.** HSQC spectrum of **2** (500 MHz,  $C_5D_5N$ ).

COSY

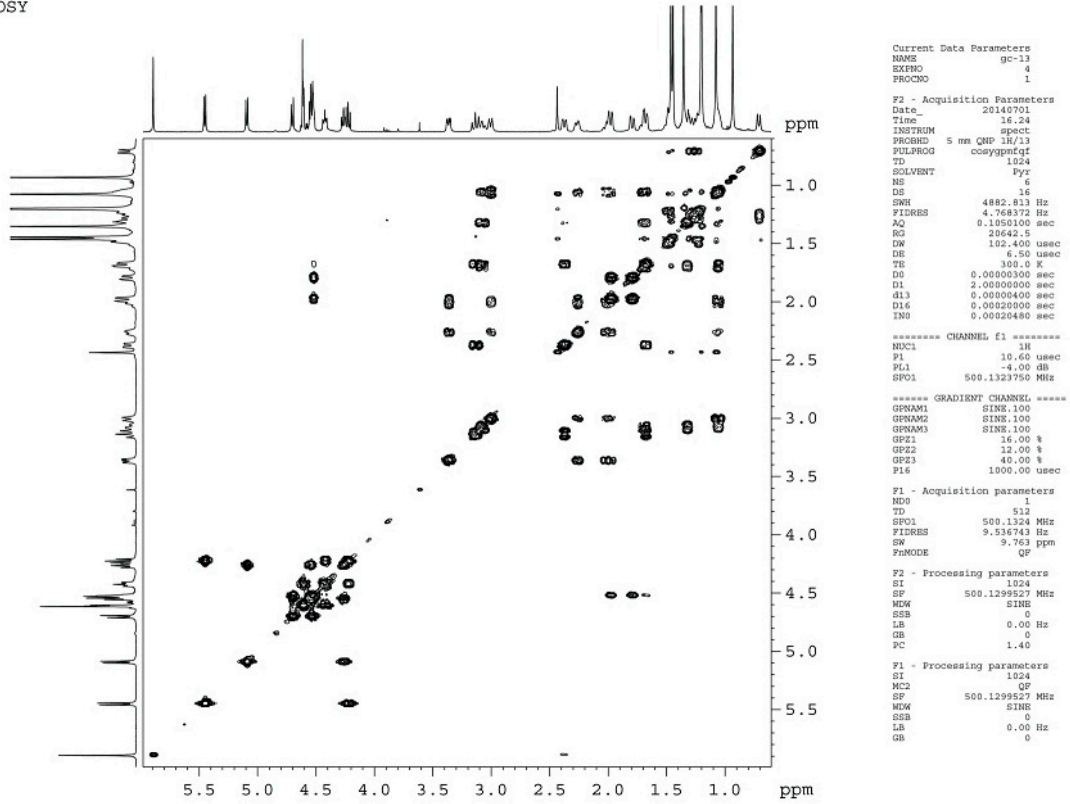
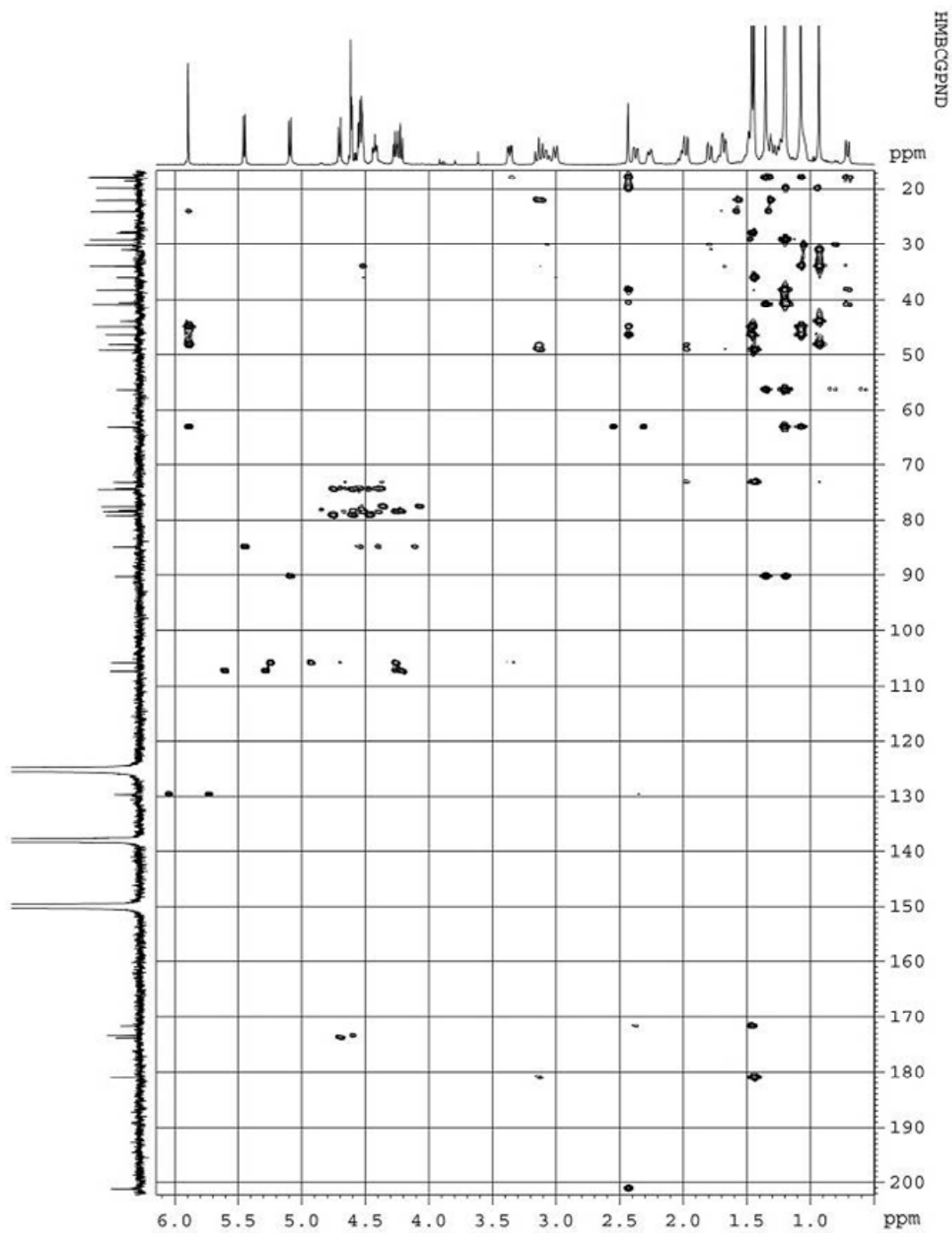
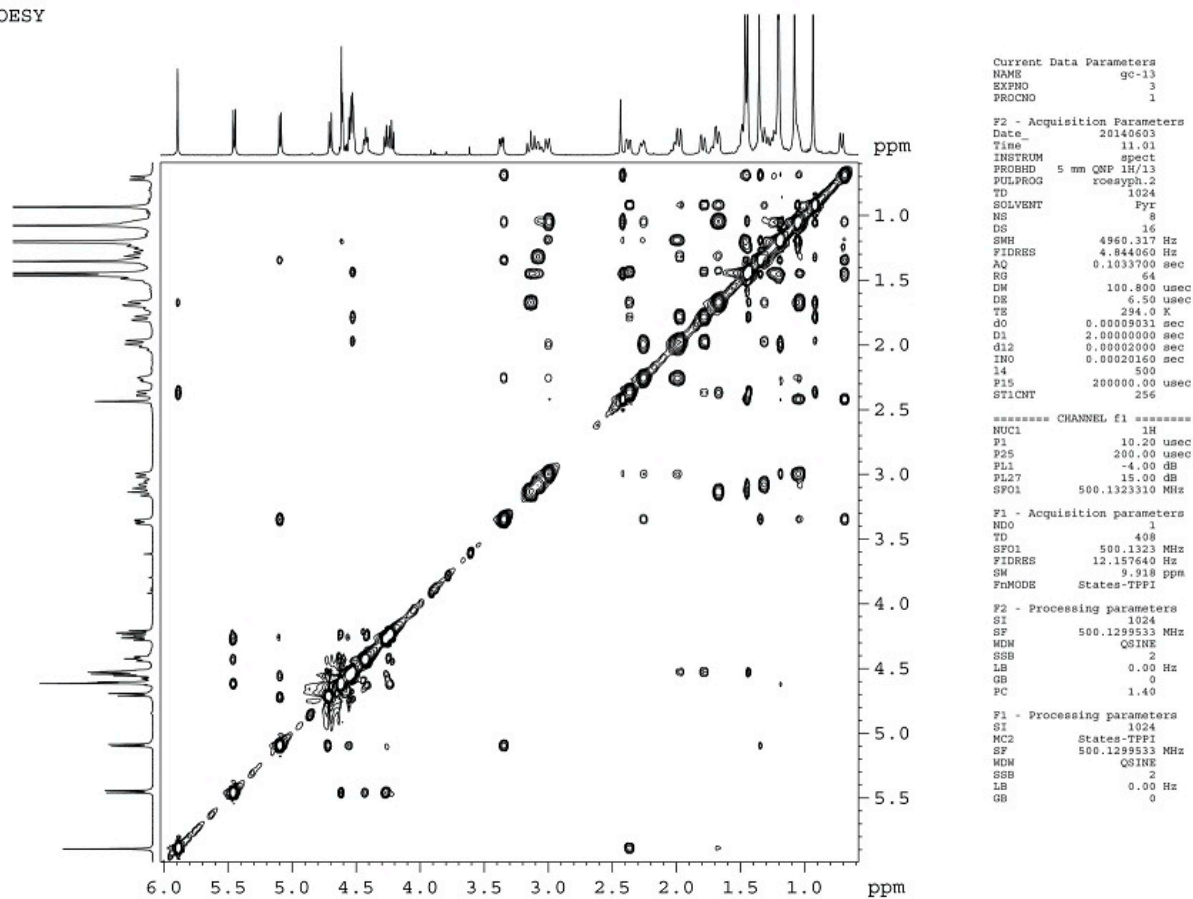
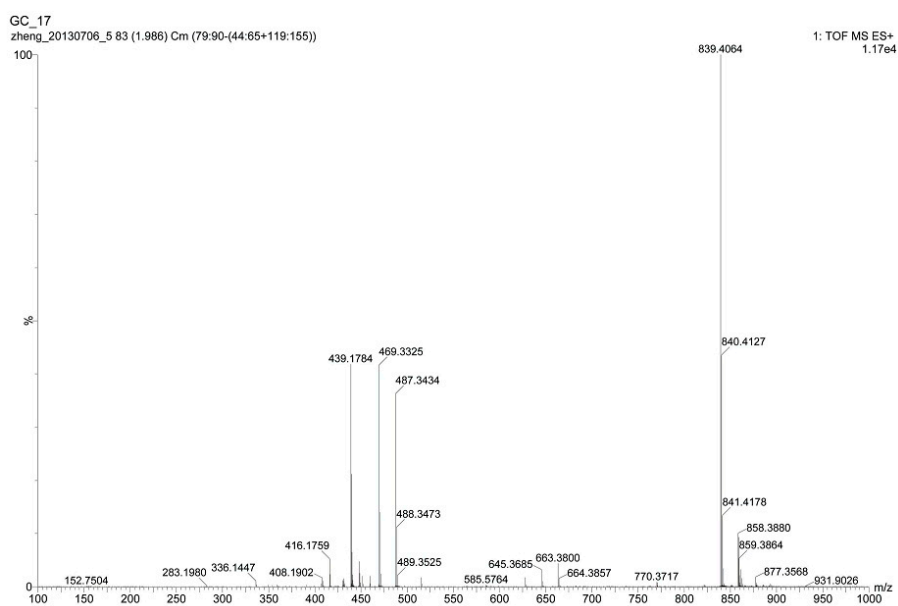


Figure S12. H-H COSY spectrum of **2** (500 MHz, C<sub>5</sub>D<sub>5</sub>N).



**Figure S13.** HMBC spectrum of **2** (500 MHz, C<sub>5</sub>D<sub>5</sub>N).

NOESY

Figure S14. NOESY spectrum of **2** (500 MHz, C<sub>5</sub>D<sub>5</sub>N).

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Figure S15. HRMSIMS spectrum of **3**.

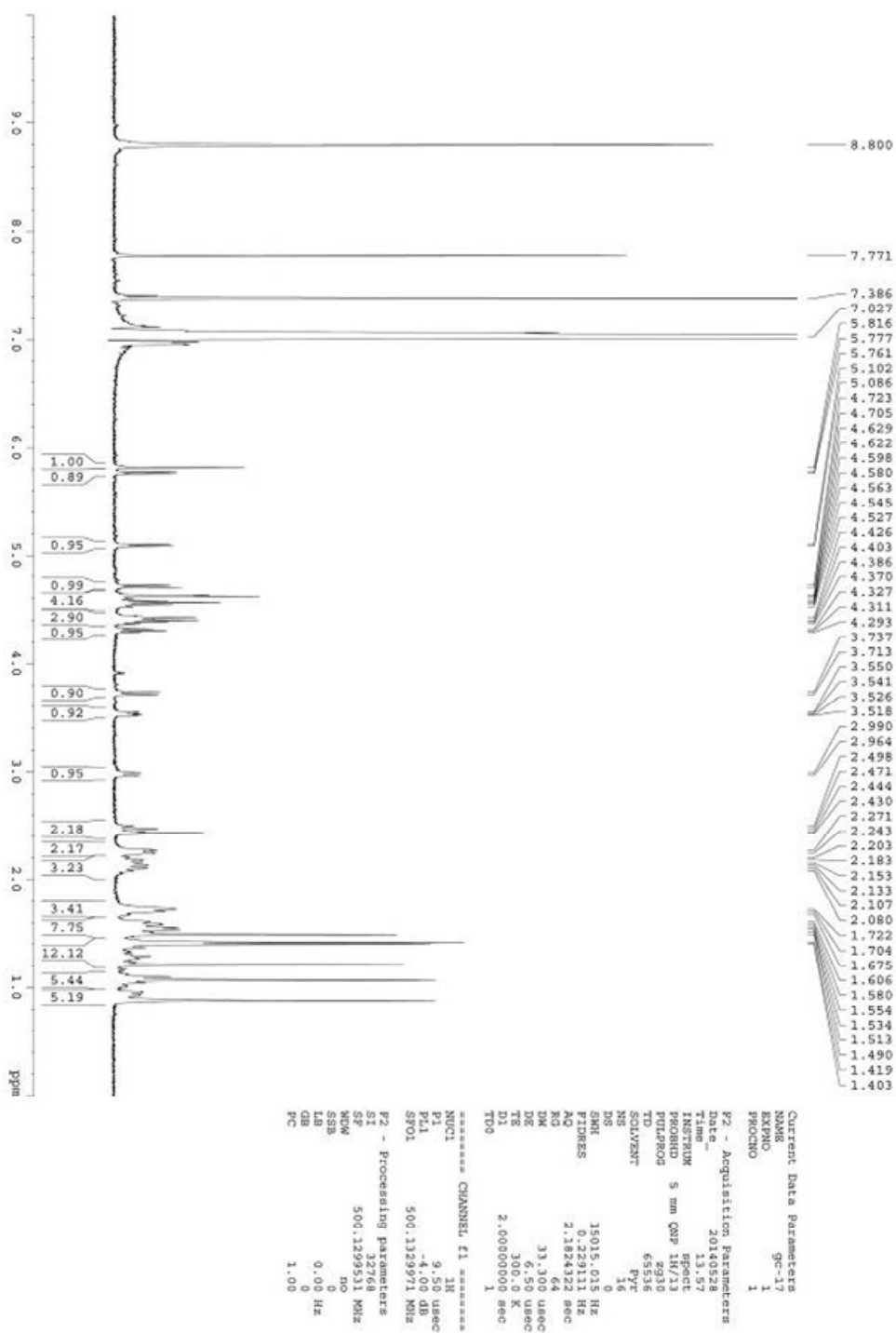


Figure S16.  $^1\text{H}$ -NMR spectrum of **3** (500 MHz,  $\text{C}_5\text{D}_5\text{N}$ ).

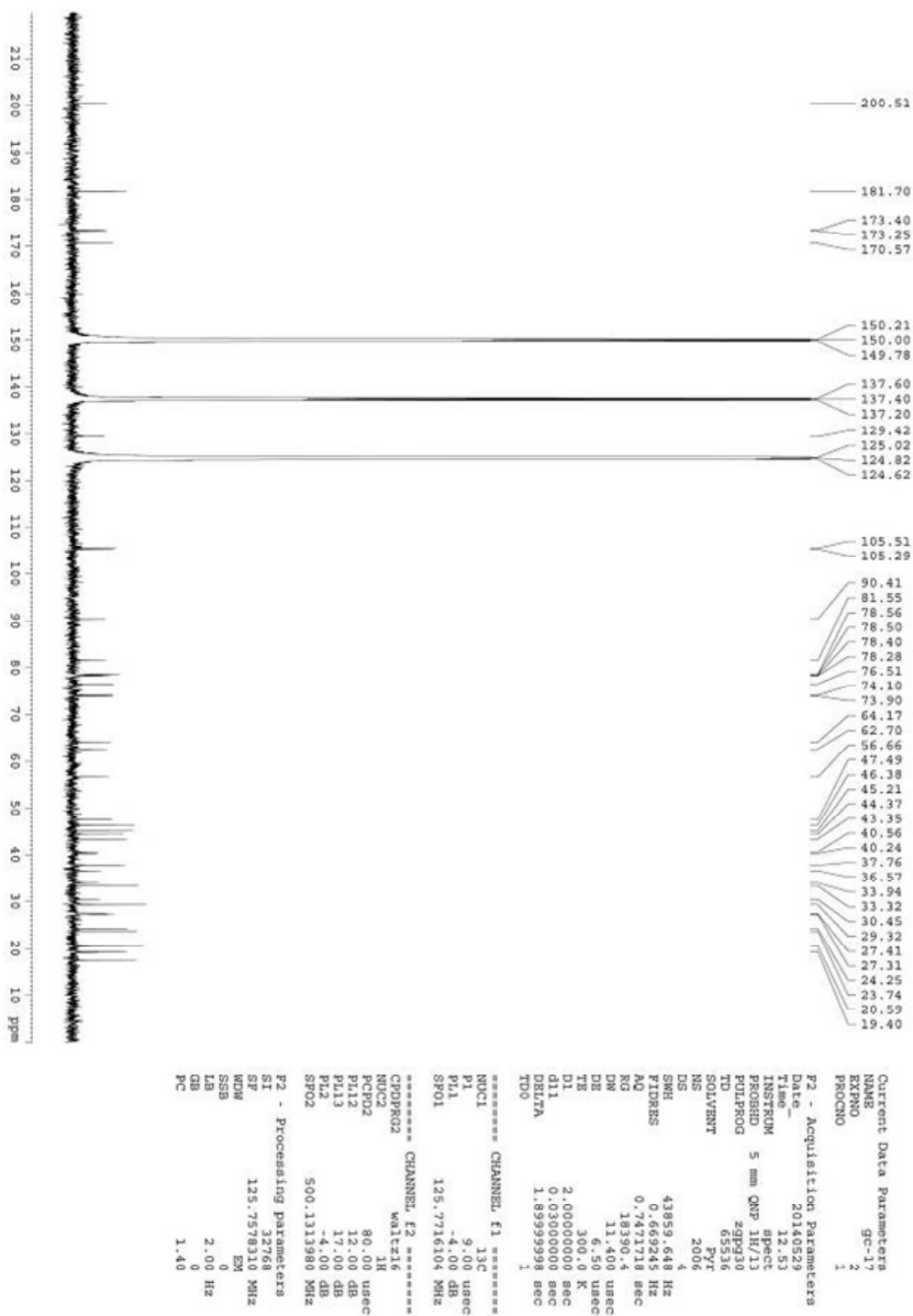
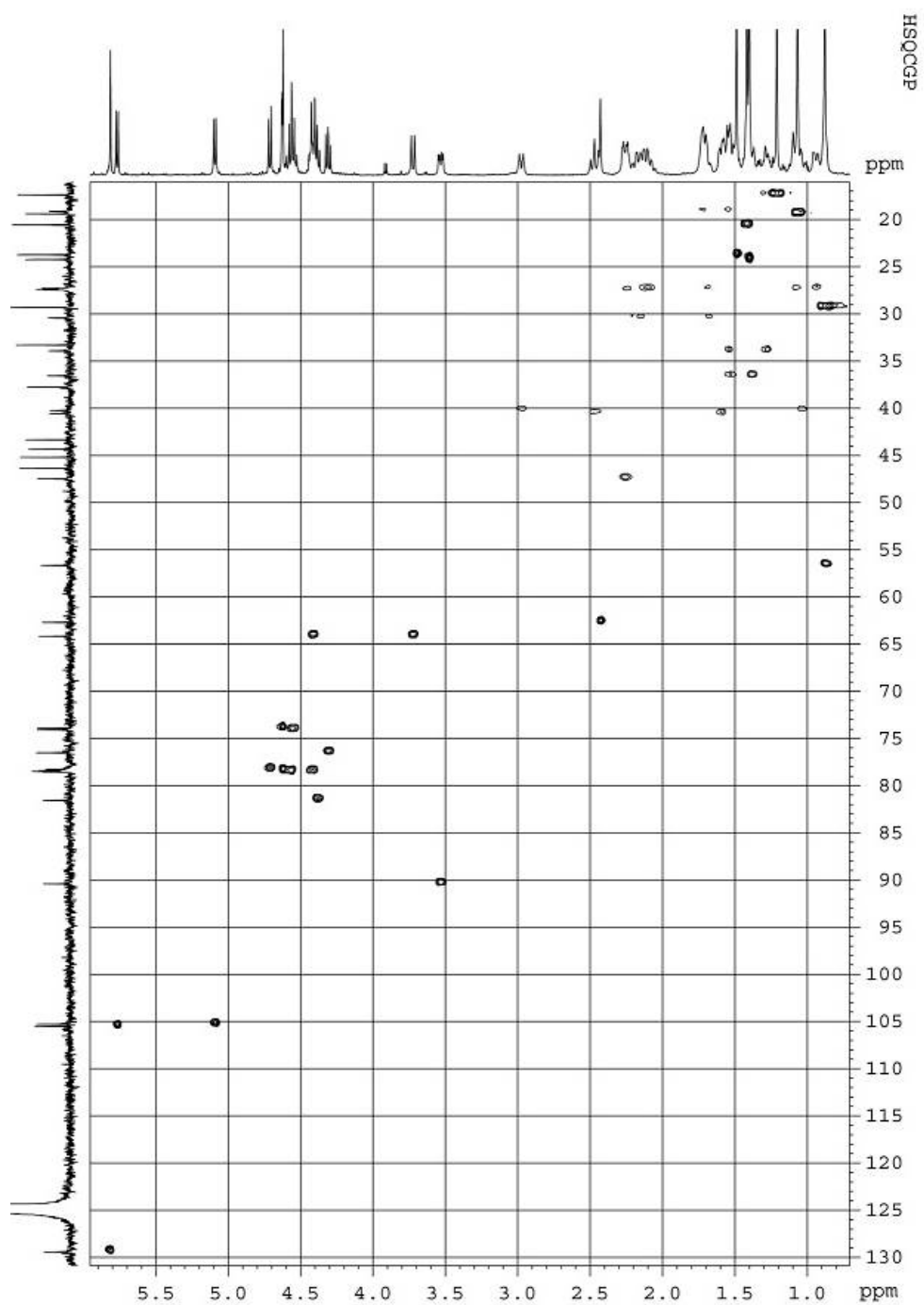


Figure S17.  $^{13}\text{C}$ -NMR spectrum of **3** (500 MHz,  $\text{C}_5\text{D}_5\text{N}$ ).



**Figure S18.** HSQC spectrum of **3** (500 MHz,  $\text{C}_5\text{D}_5\text{N}$ ).



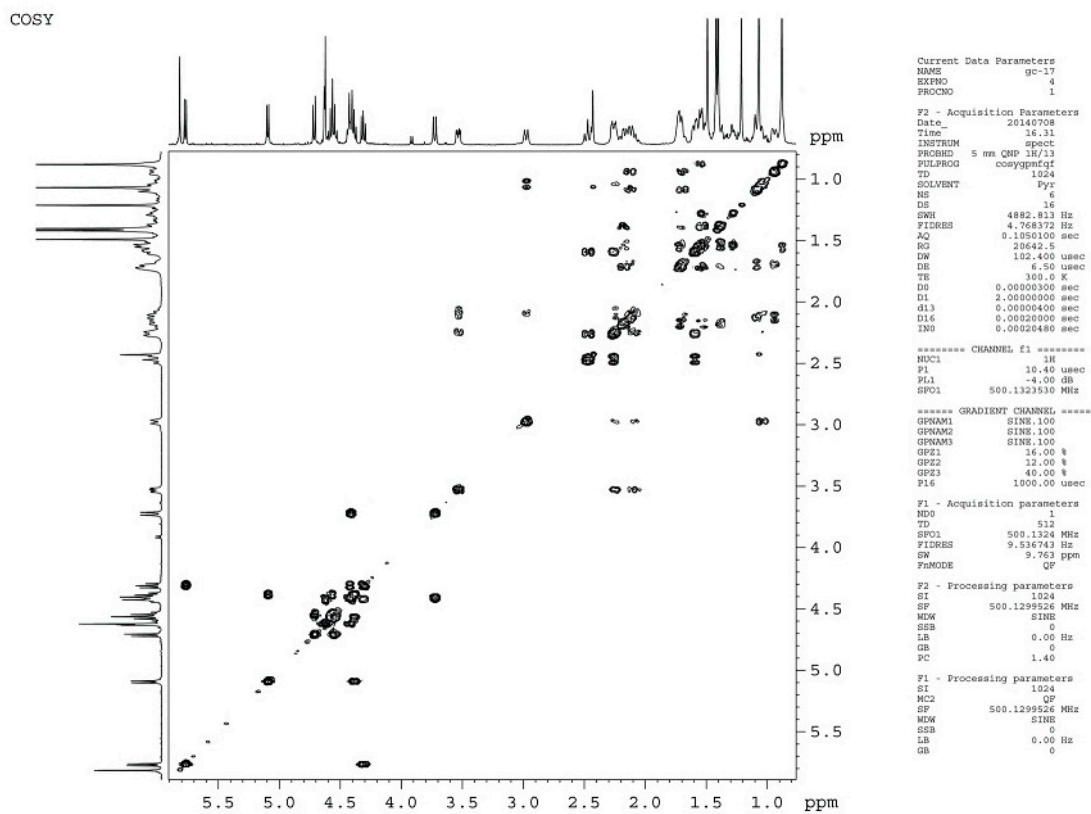


Figure S19. H-H COSY spectrum of **2** (500 MHz, C<sub>5</sub>D<sub>5</sub>N).

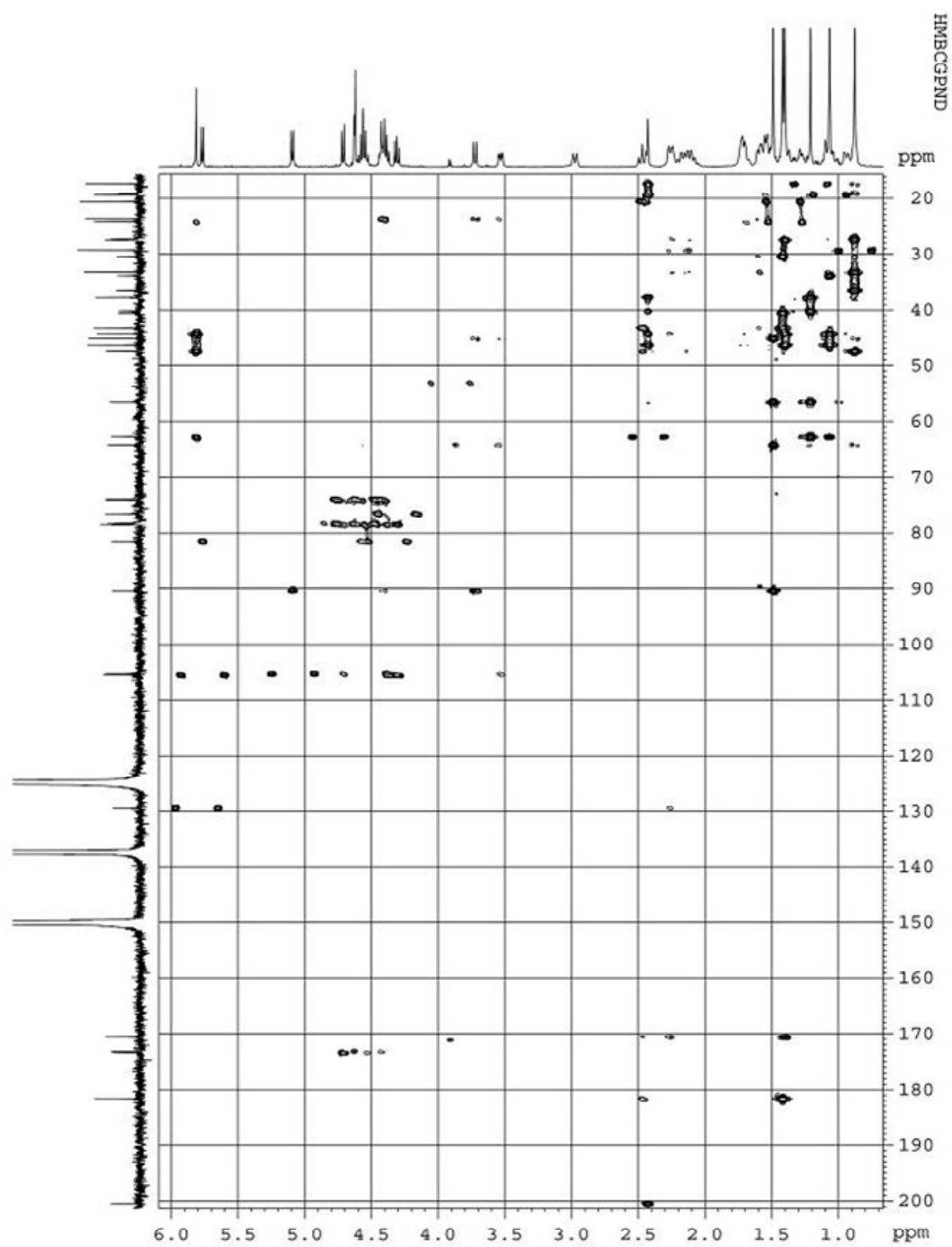
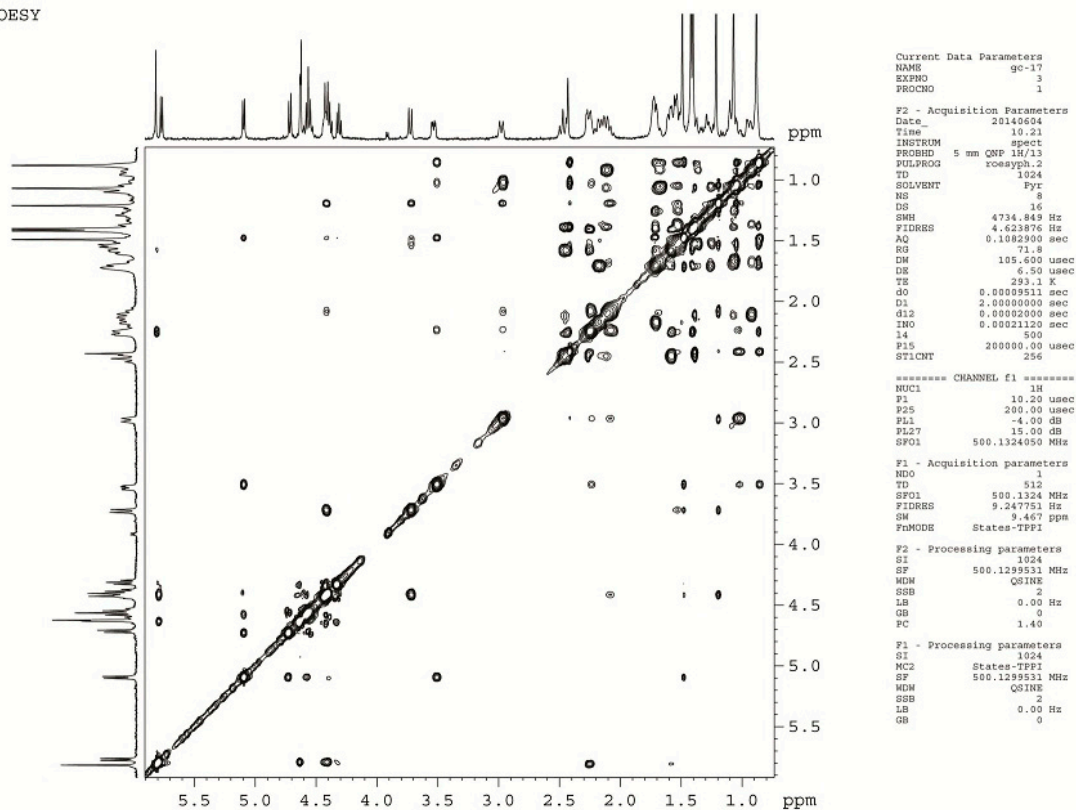
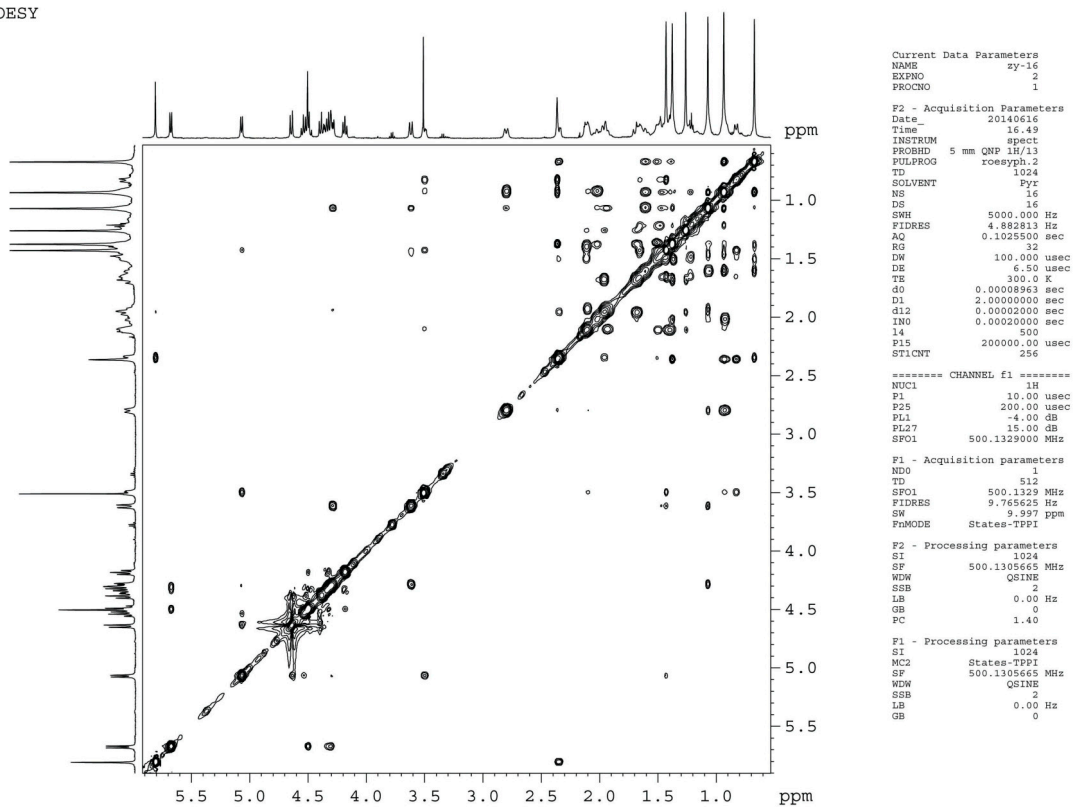


Figure S20. HMBC spectrum of **3** (500 MHz,  $\text{C}_5\text{D}_5\text{N}$ ).

NOESY

Figure S21. NOESY spectrum of **3** (500 MHz, C<sub>5</sub>D<sub>5</sub>N).

NOESY

Figure S22. NOESY spectrum of **4** (500 MHz, C<sub>5</sub>D<sub>5</sub>N).