

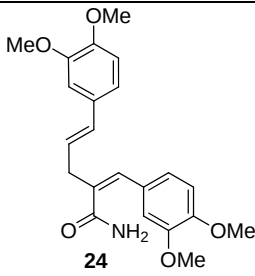
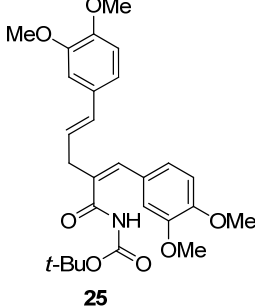
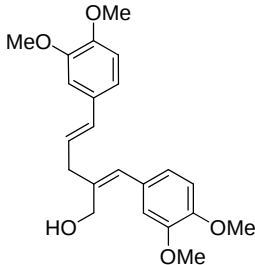
Transmissive Olefination Route to Putative "Morinol I" Lignans

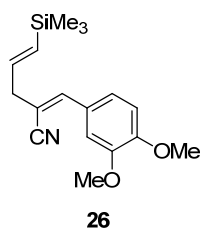
Lihua Yao, Bhaskar Pitta, Ravikumar P. Chandrababu, Matthew Purzycki, and Fraser

*F. Fleming**

Department of Chemistry and Biochemistry, Duquesne University, Pittsburgh,

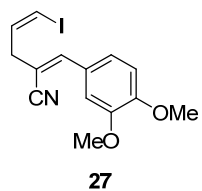
Pennsylvania 15282-1530.

Compound	¹ H NMR	¹³ C NMR	X-Ray
 24	S4	S5	
 25	S6	S7	
 (7Z, 7'E)-7	S8	S9	



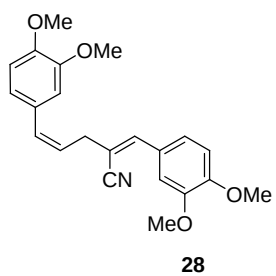
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S11



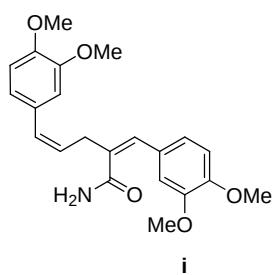
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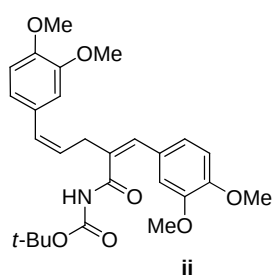
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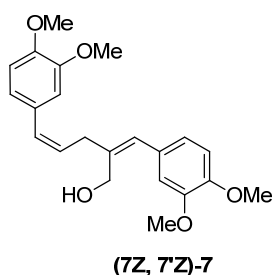
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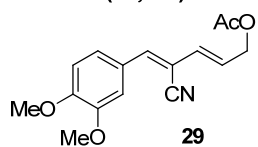
S18

S19



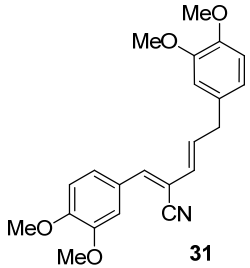
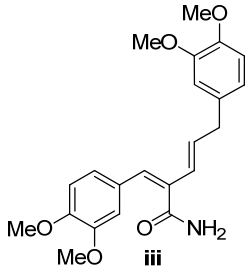
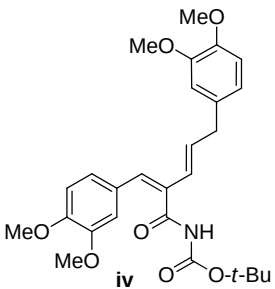
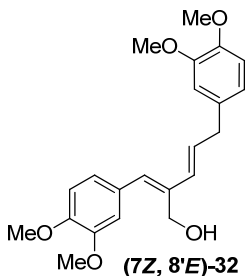
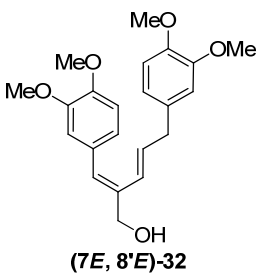
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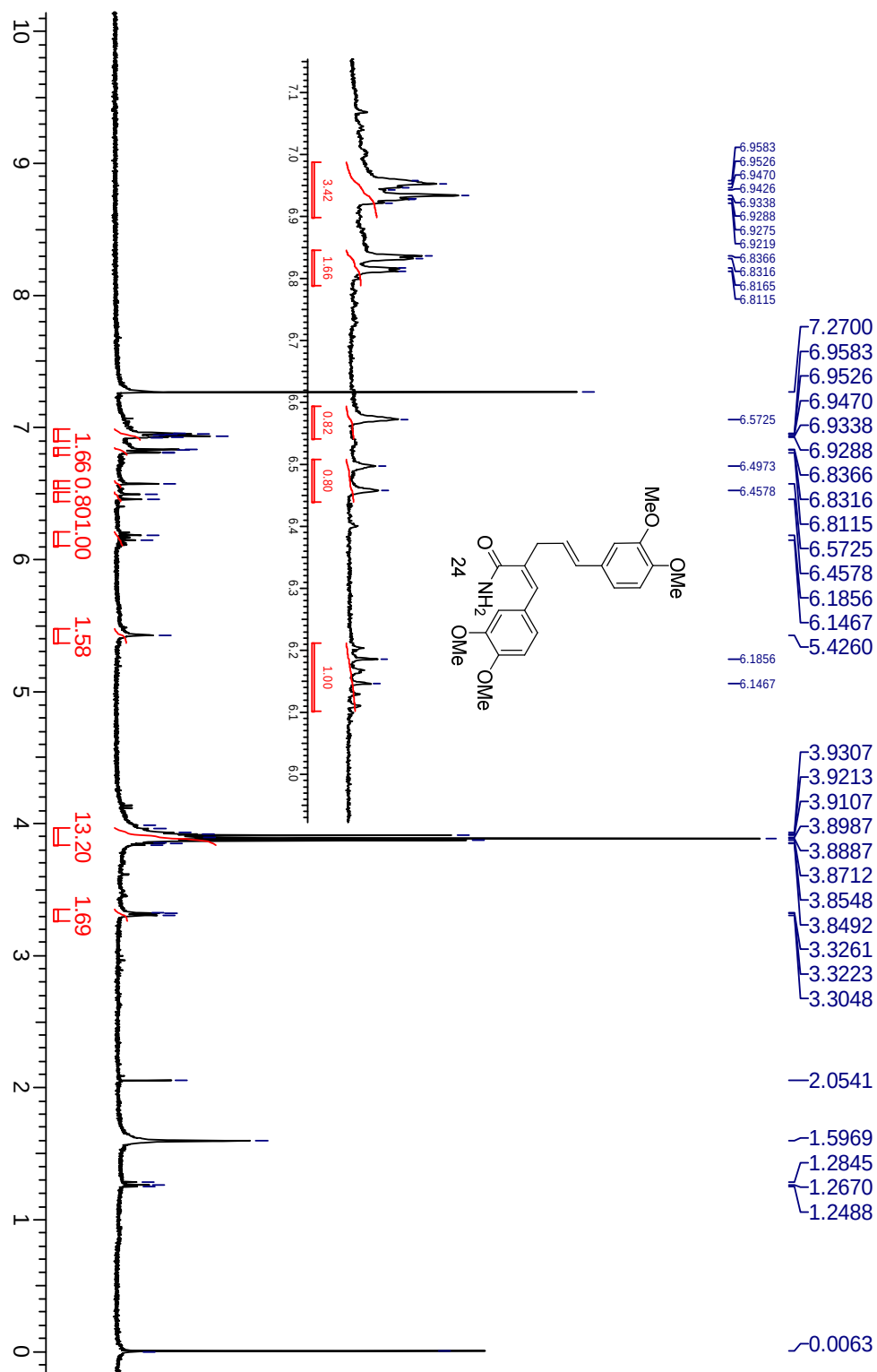
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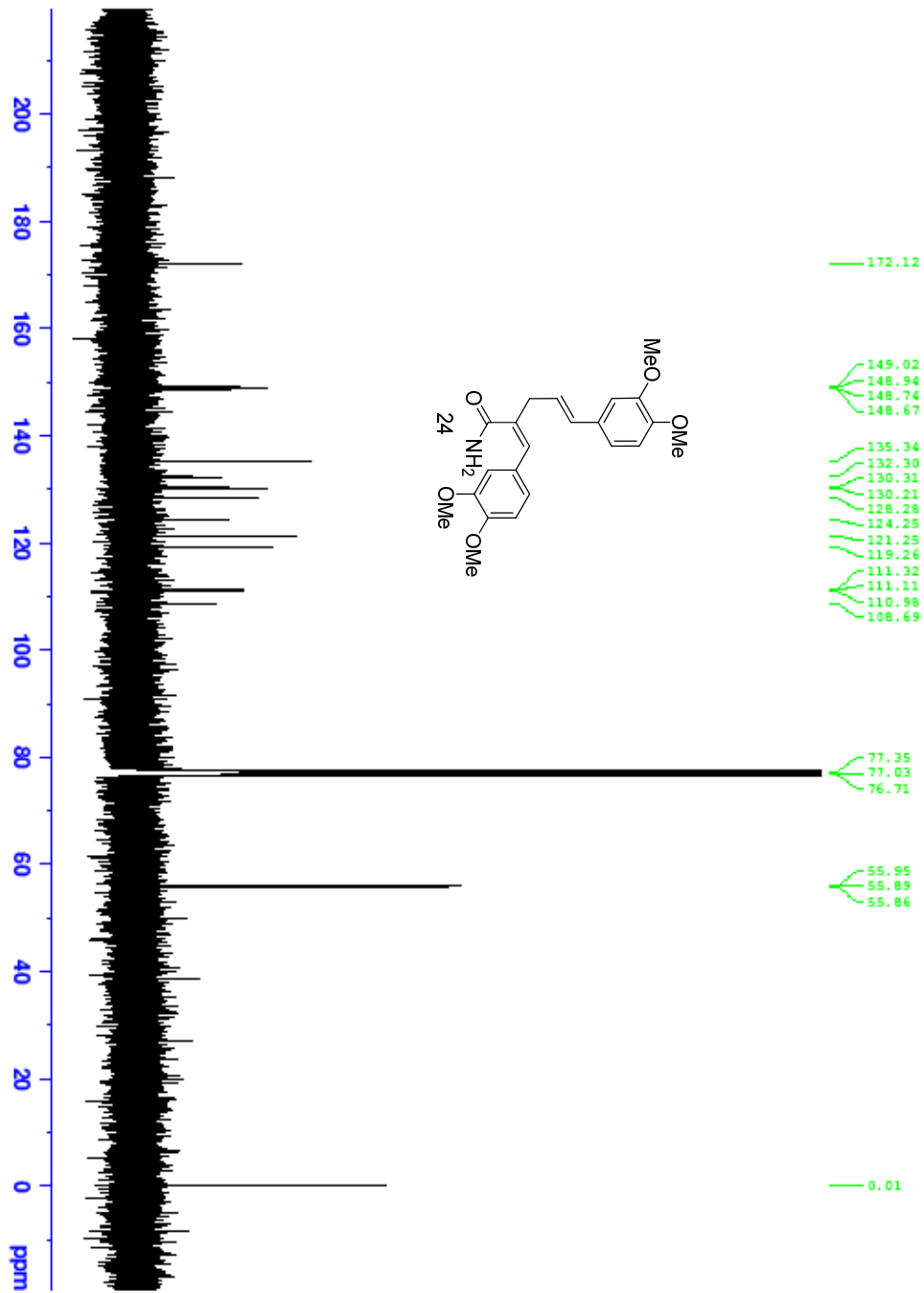


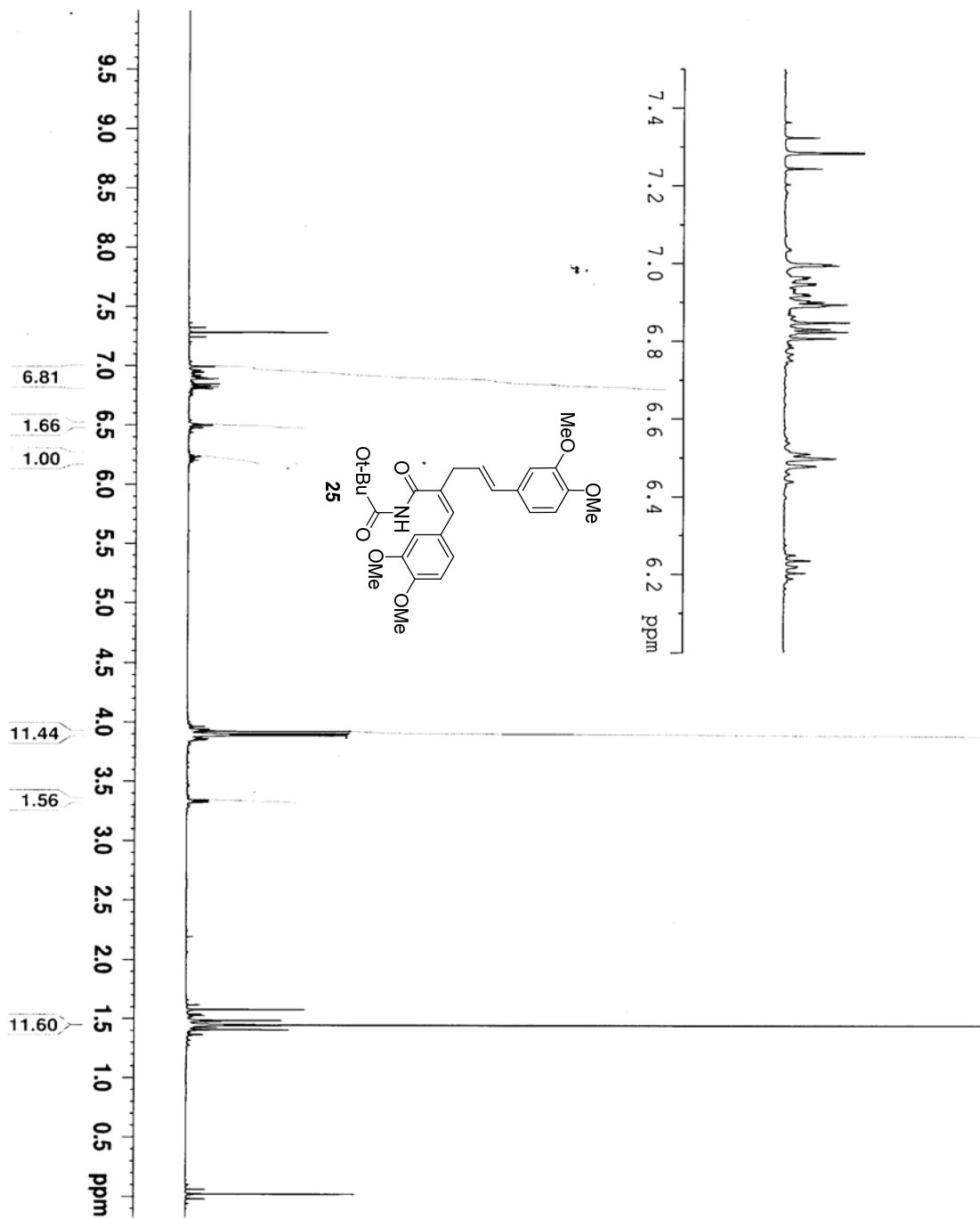
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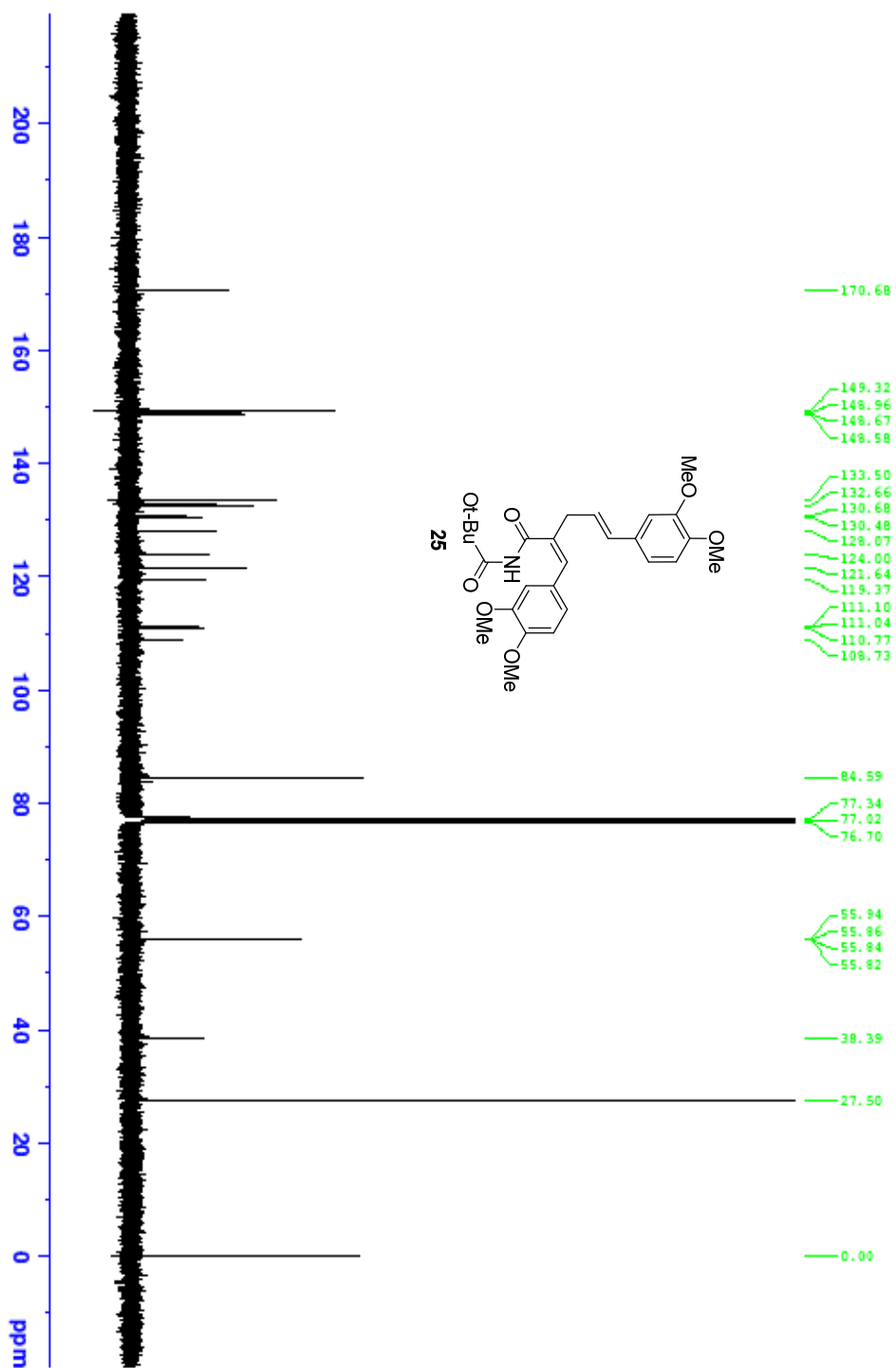
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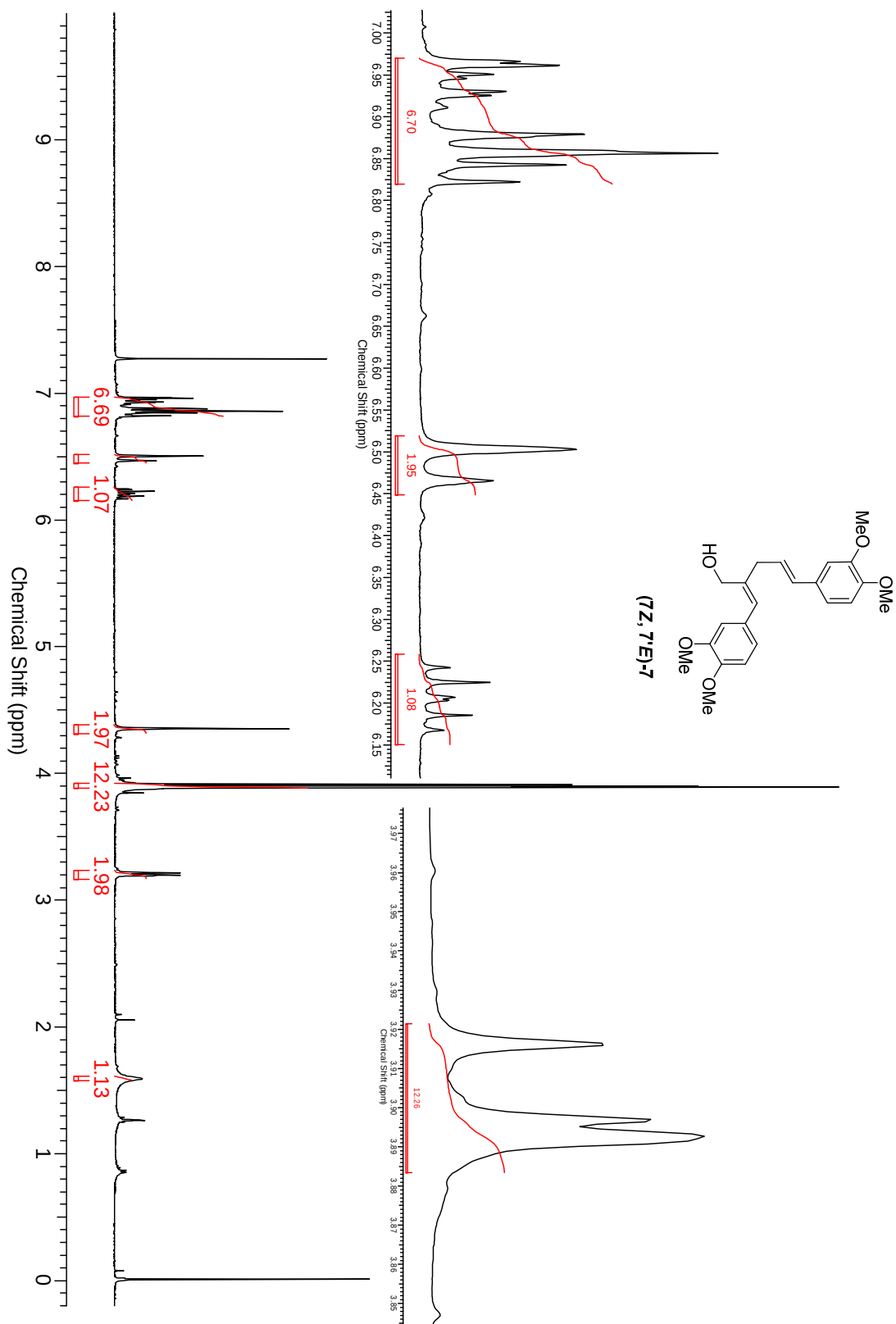
 31	S24	S25	S26 ORTEP
 iii	S27	S28	
 iv	S29	S30	
 (7Z, 8'E)-32	S31	S32	
 (7E, 8'E)-32	S33	S34	
Table 1. Comparison of Morinol Lignan Chemical Shifts		S35	

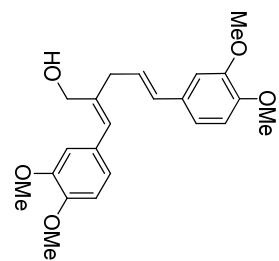




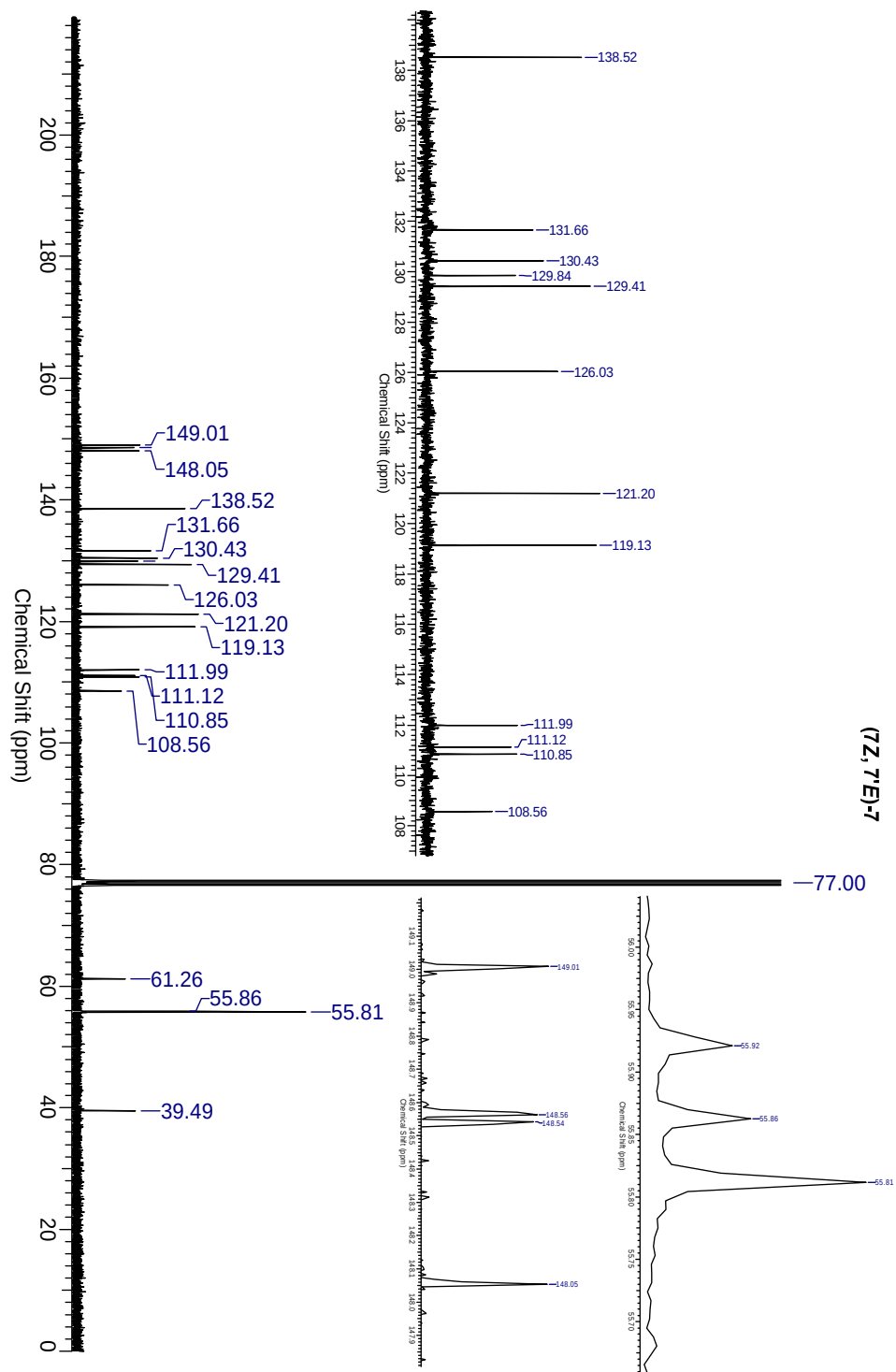


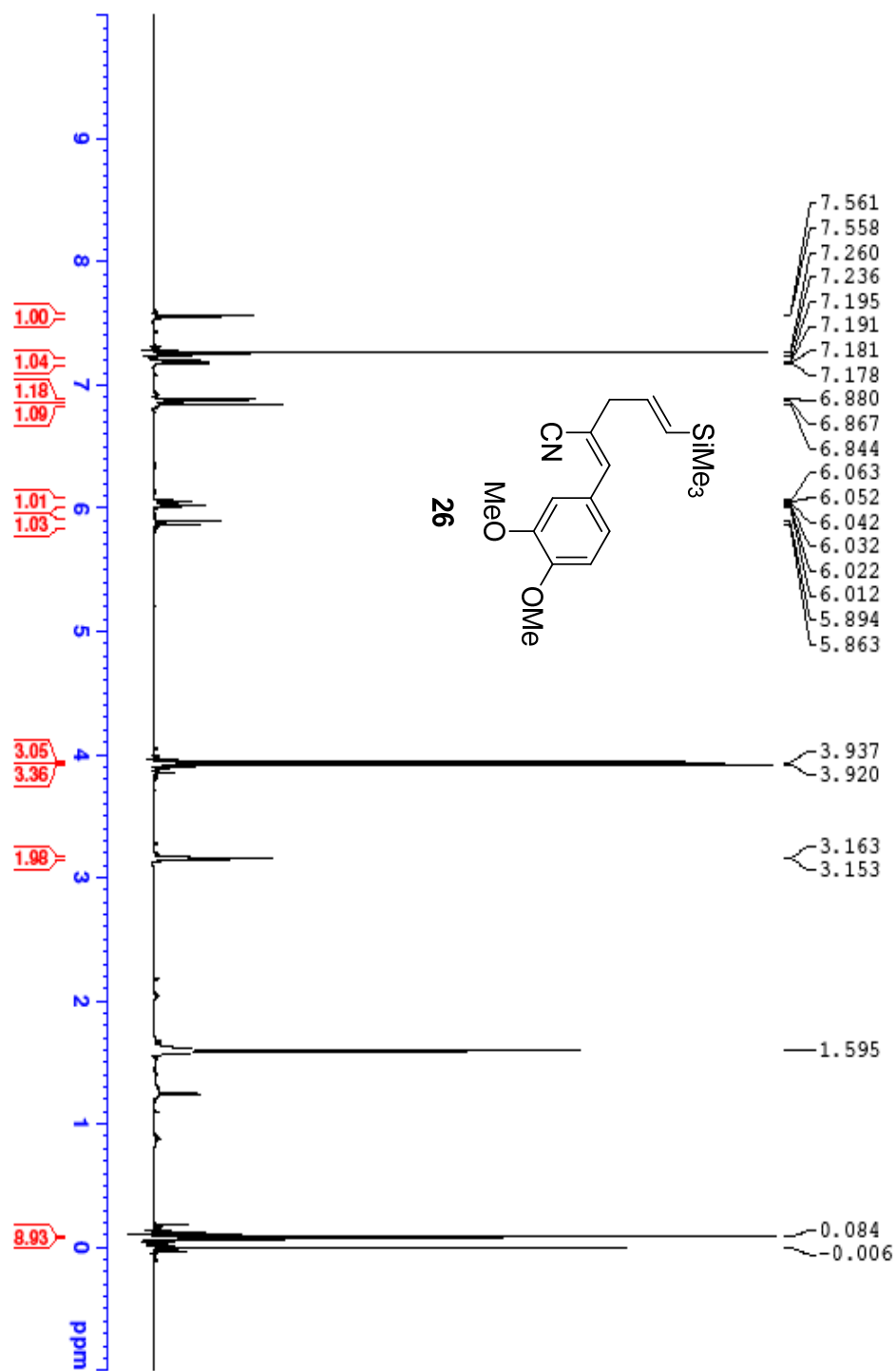


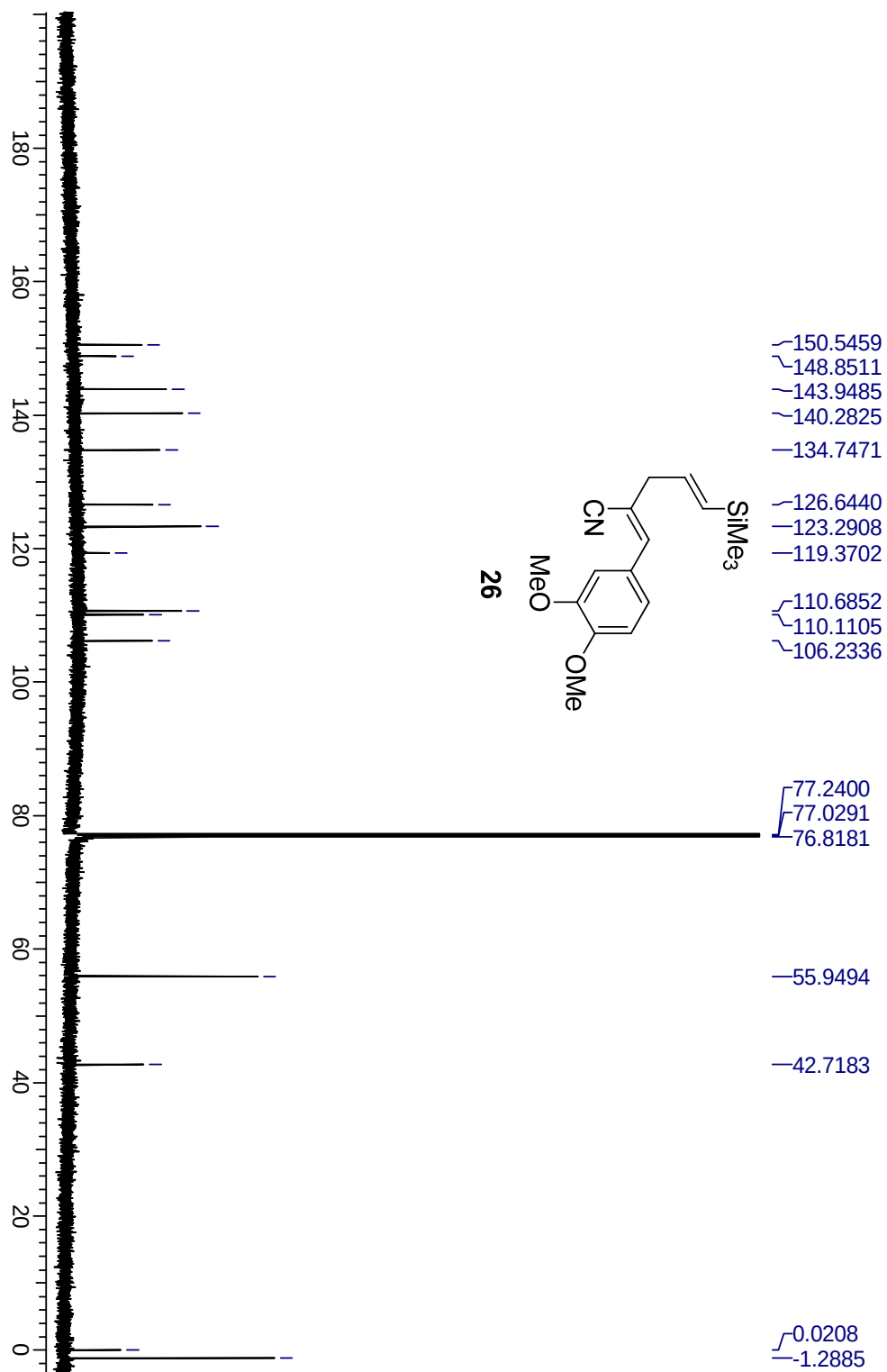


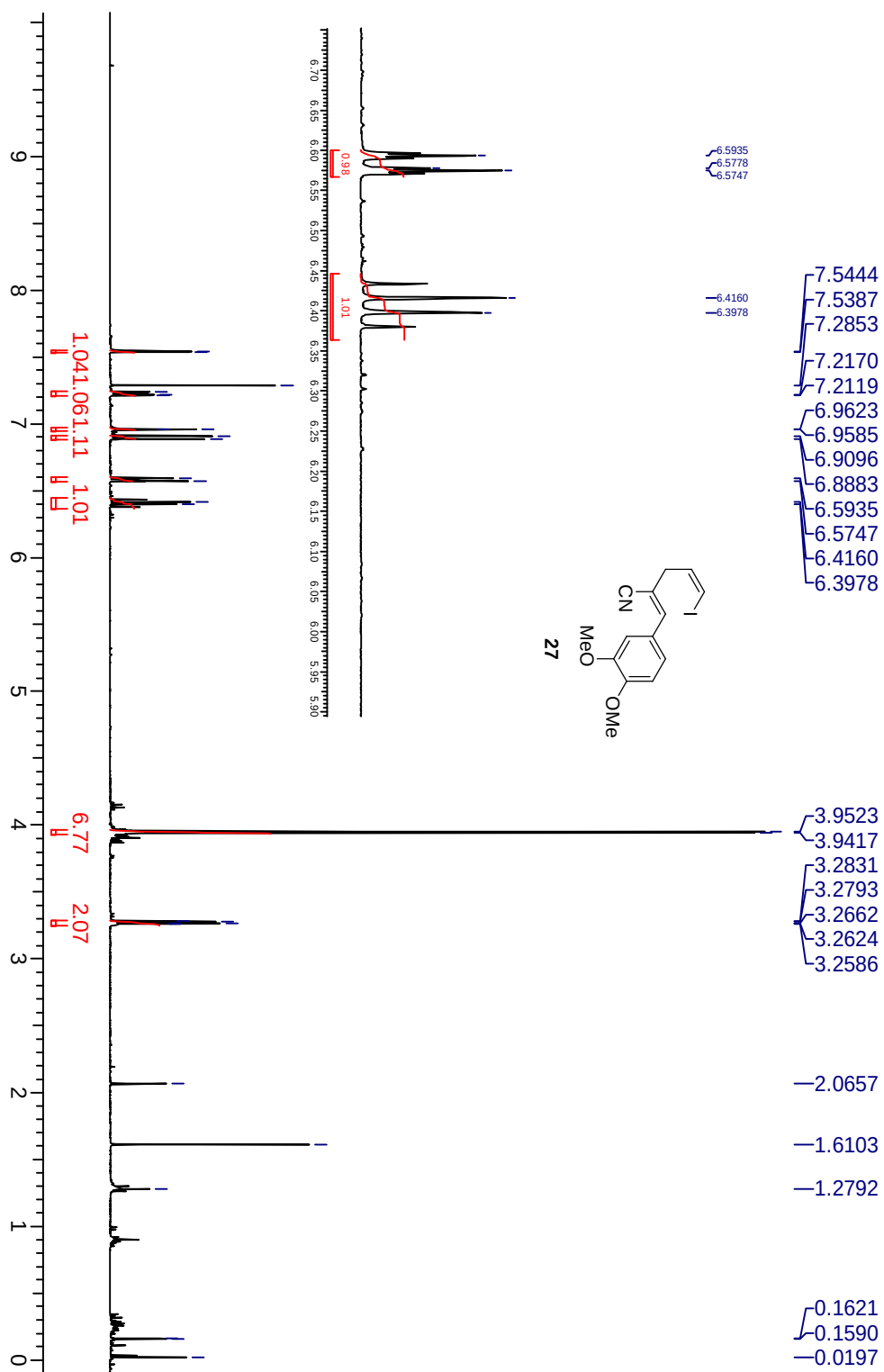


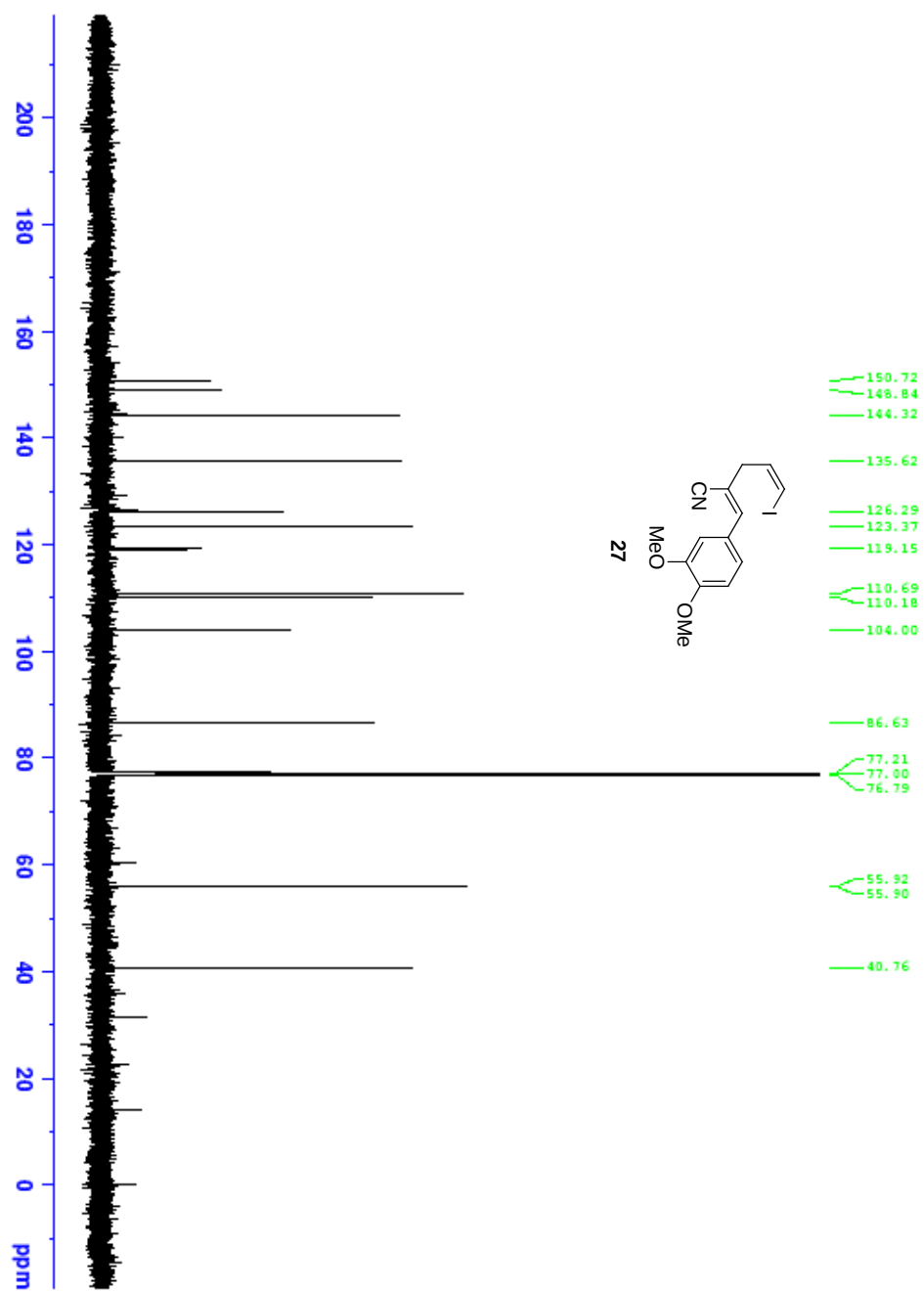
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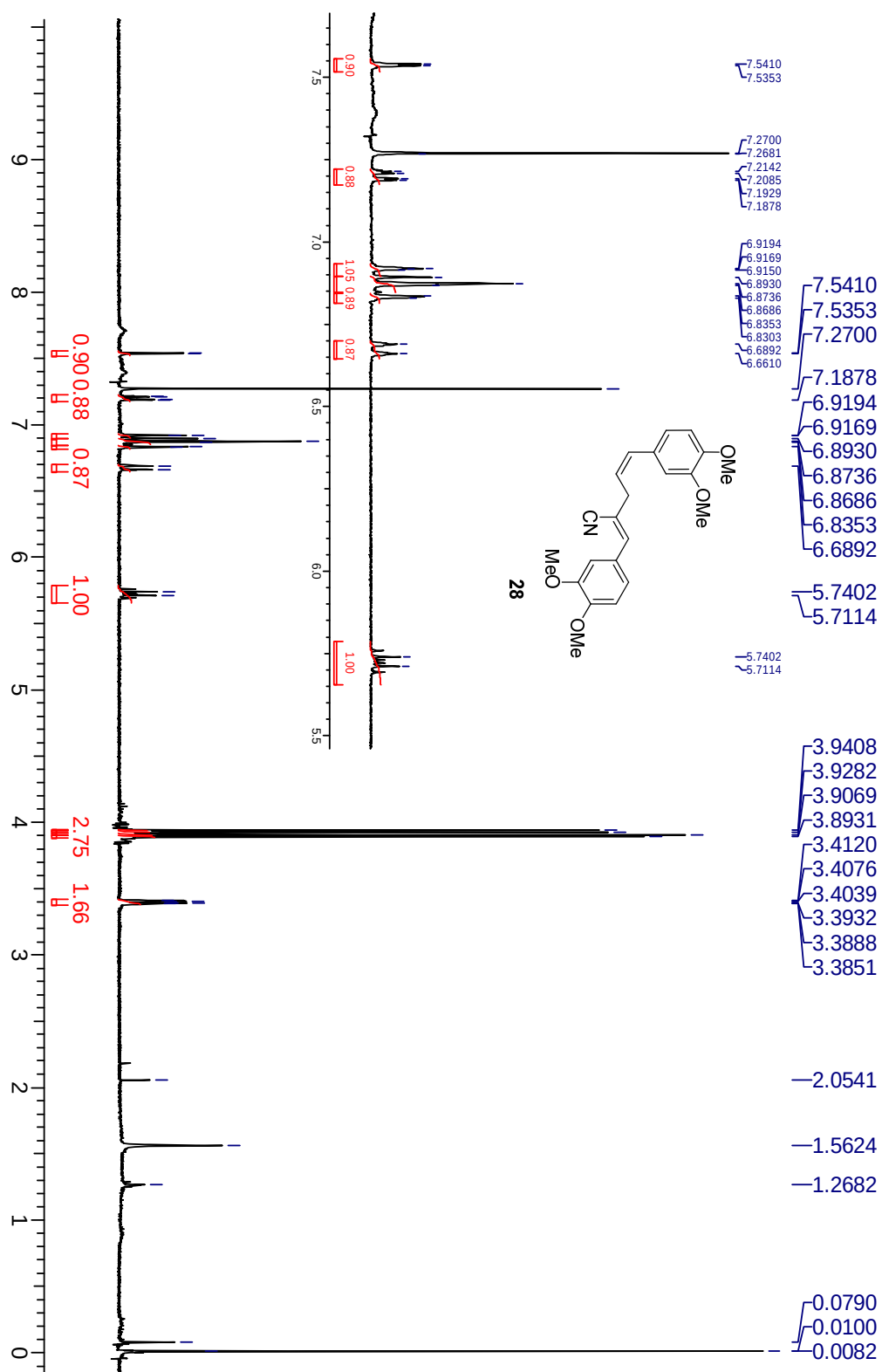


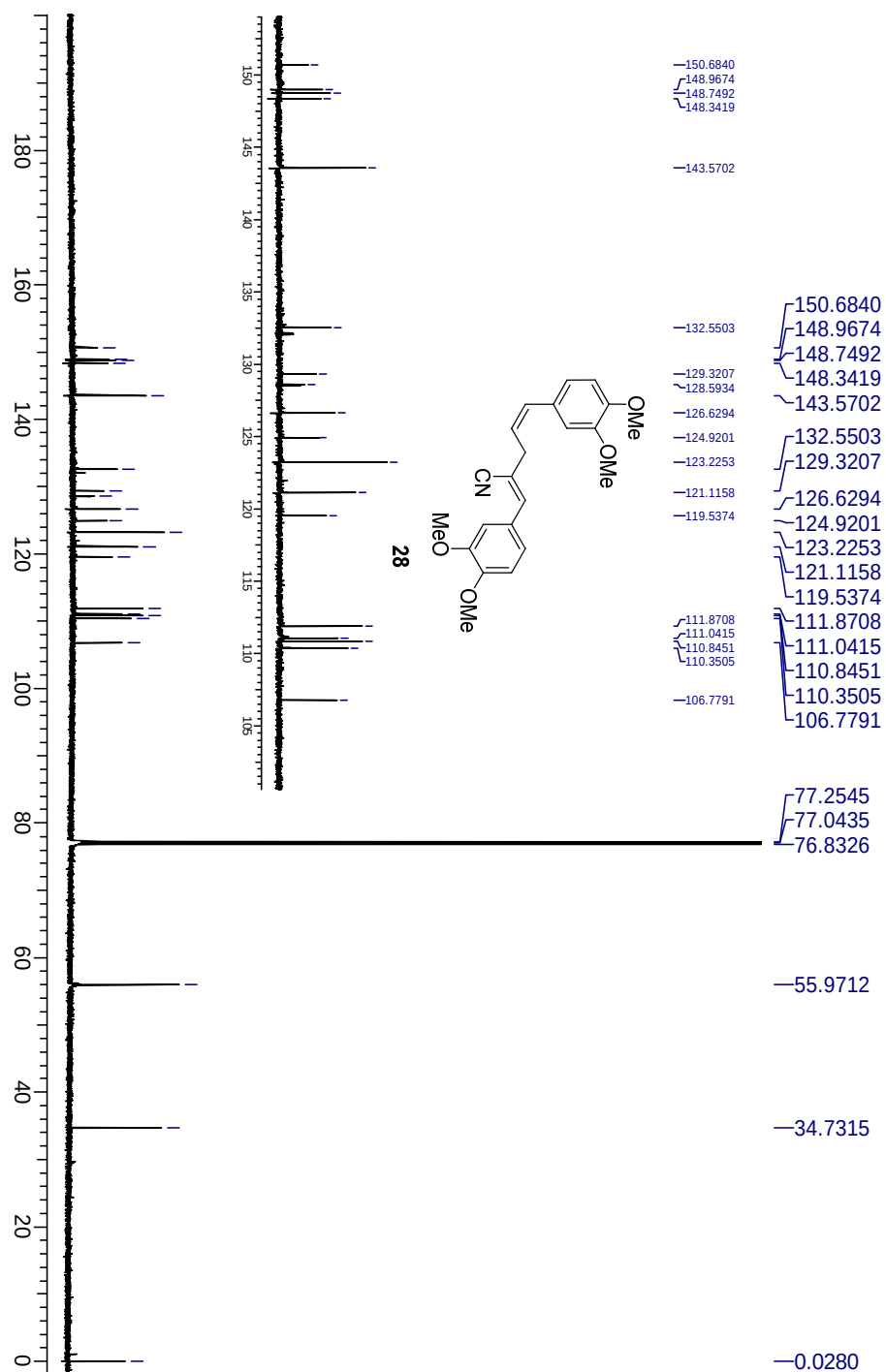


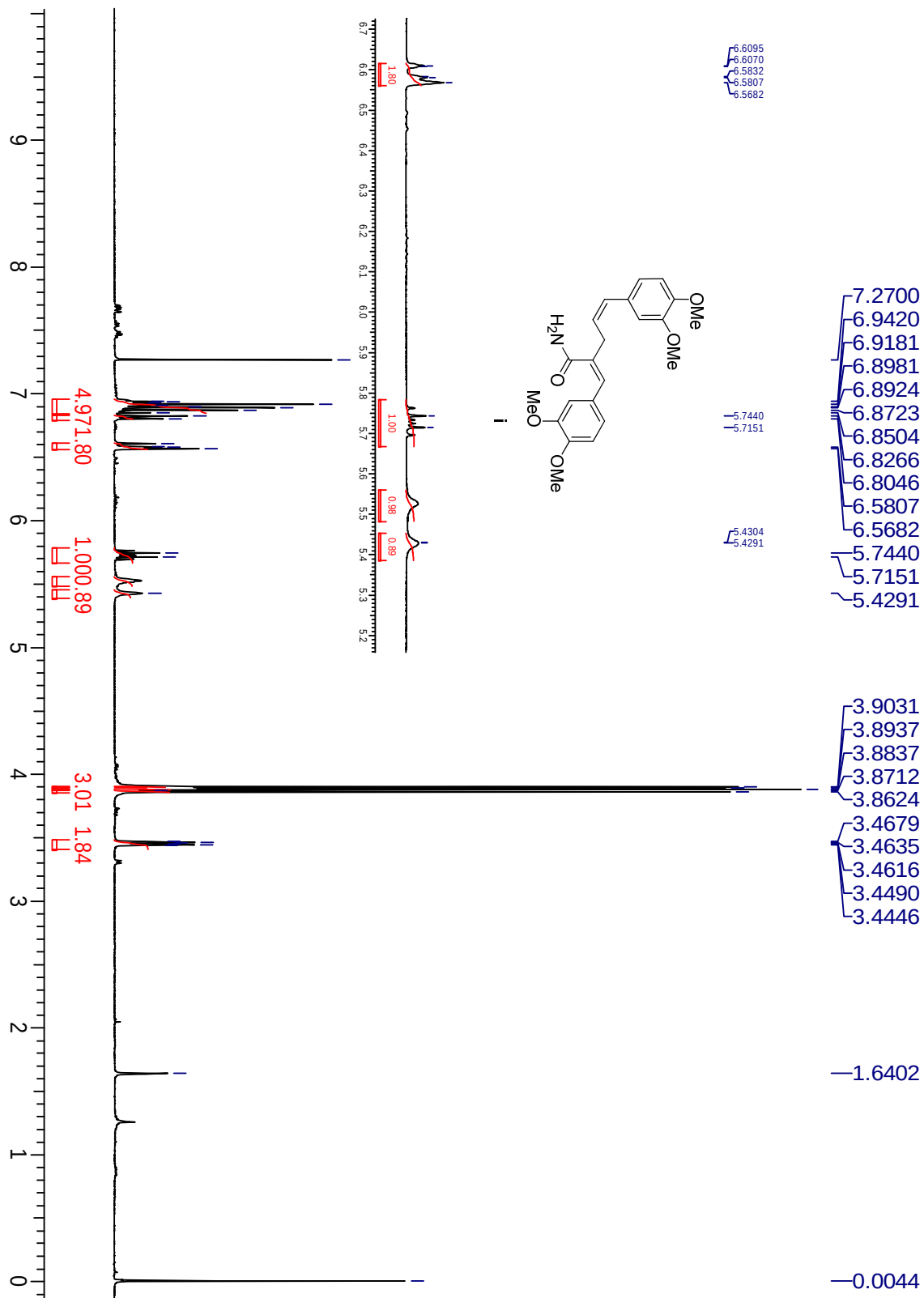


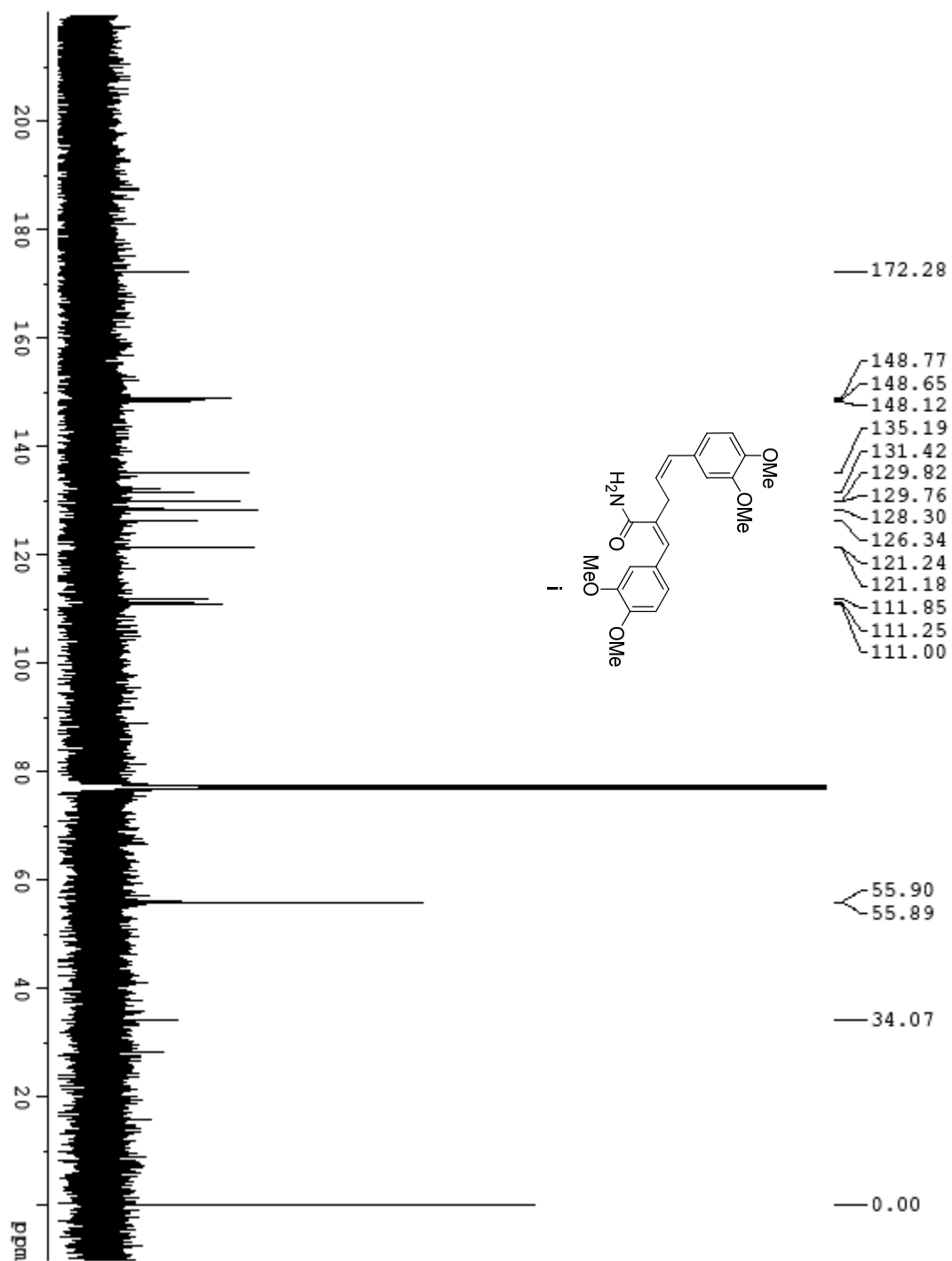


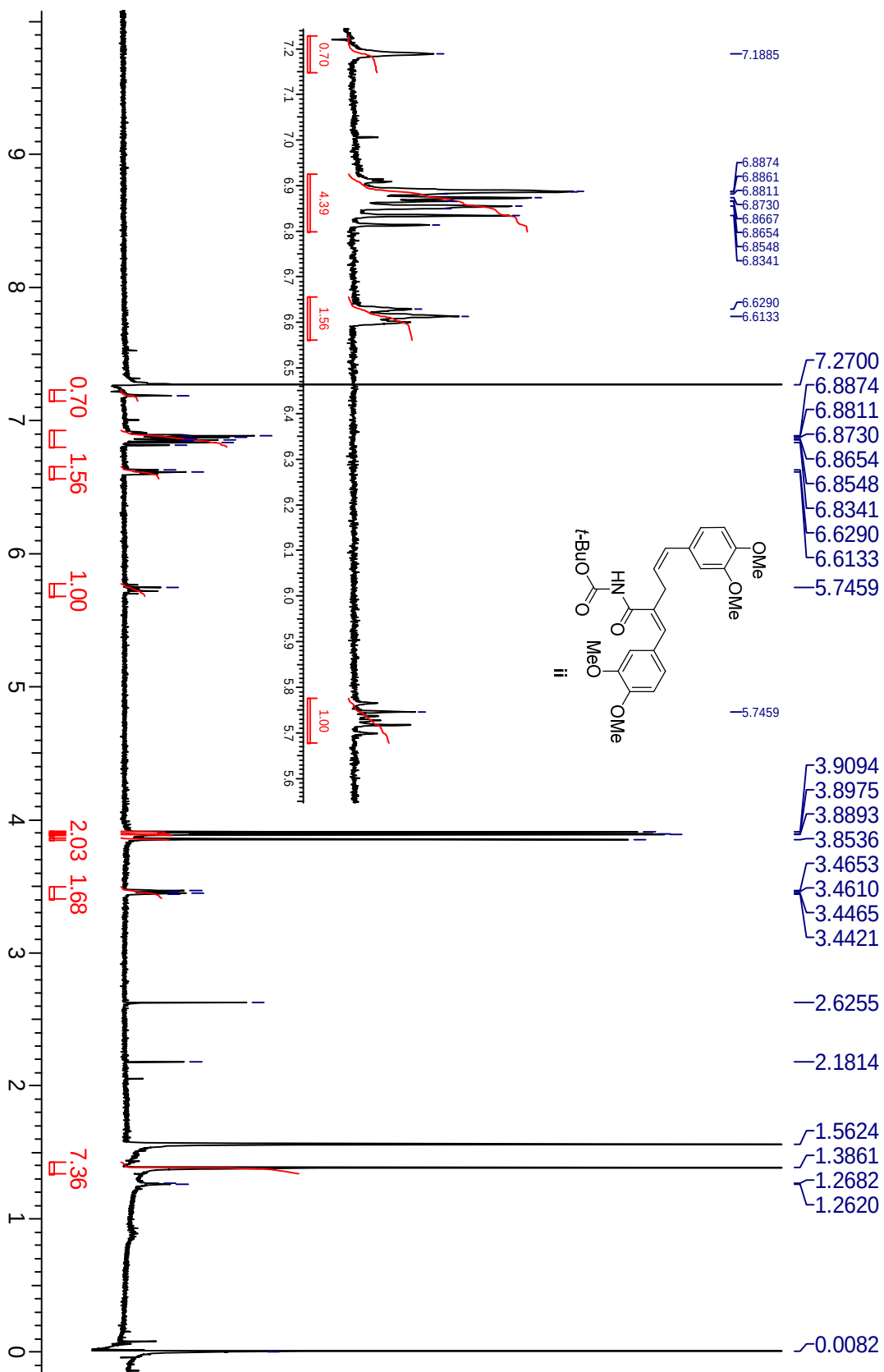


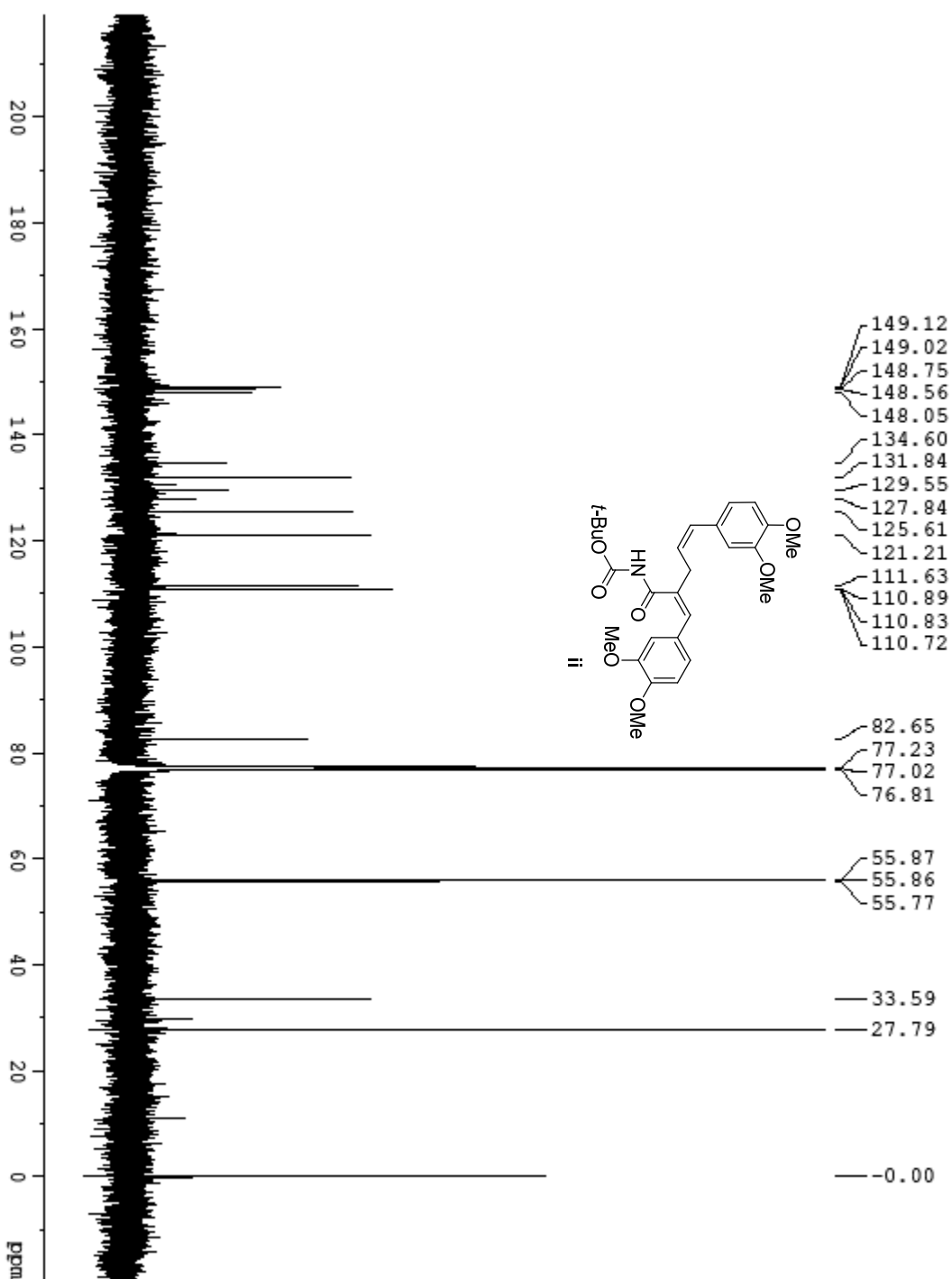


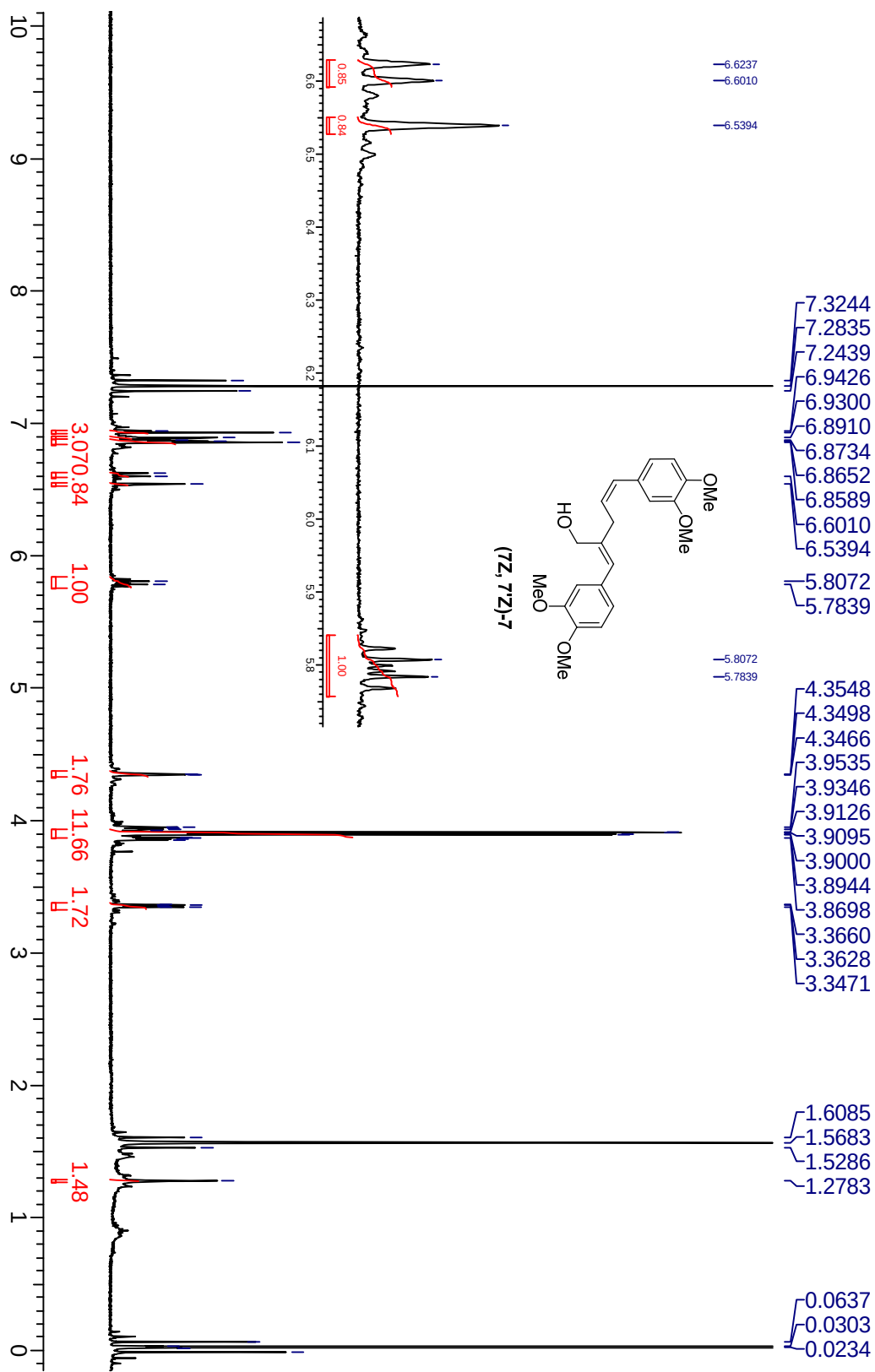


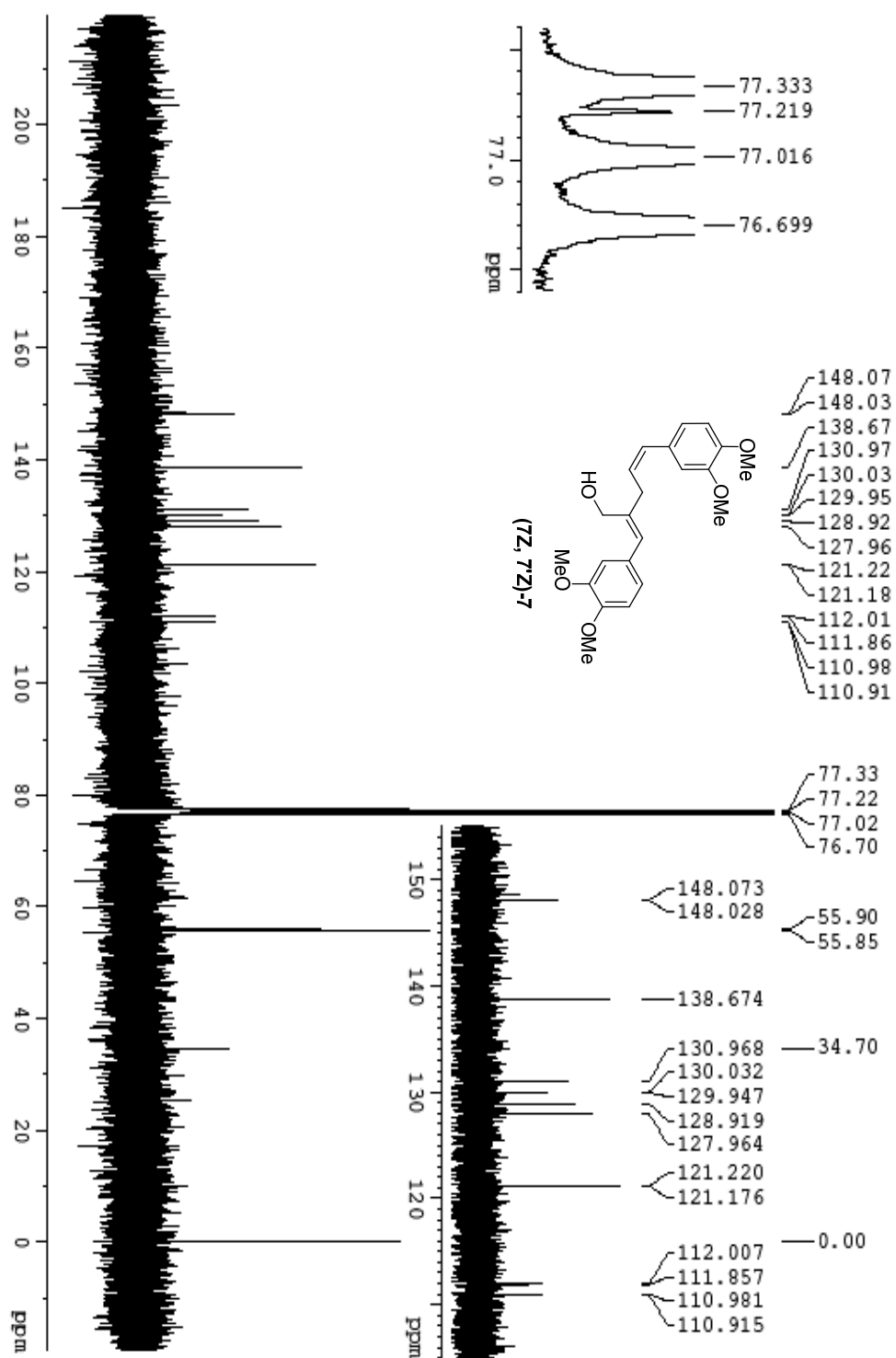


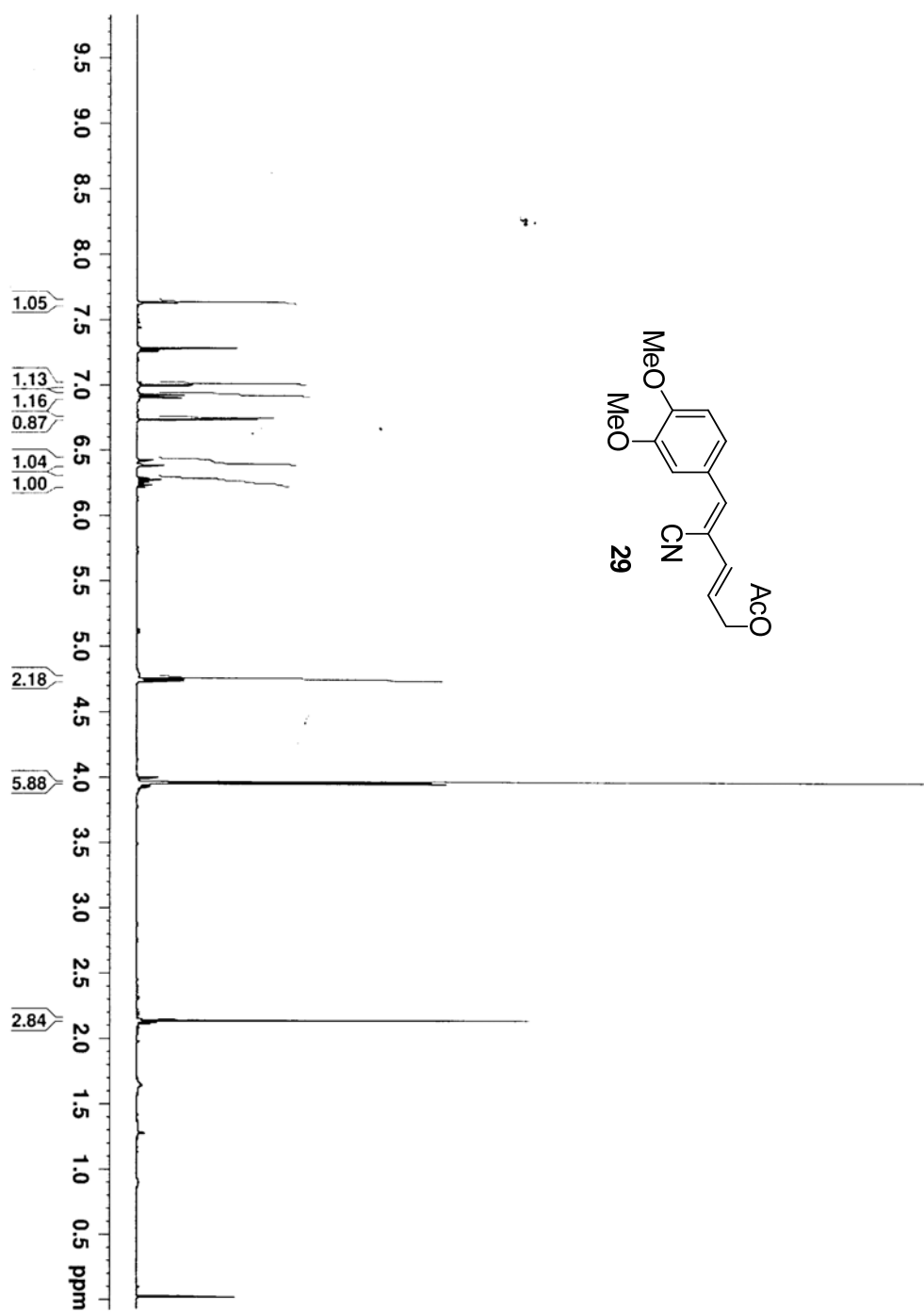


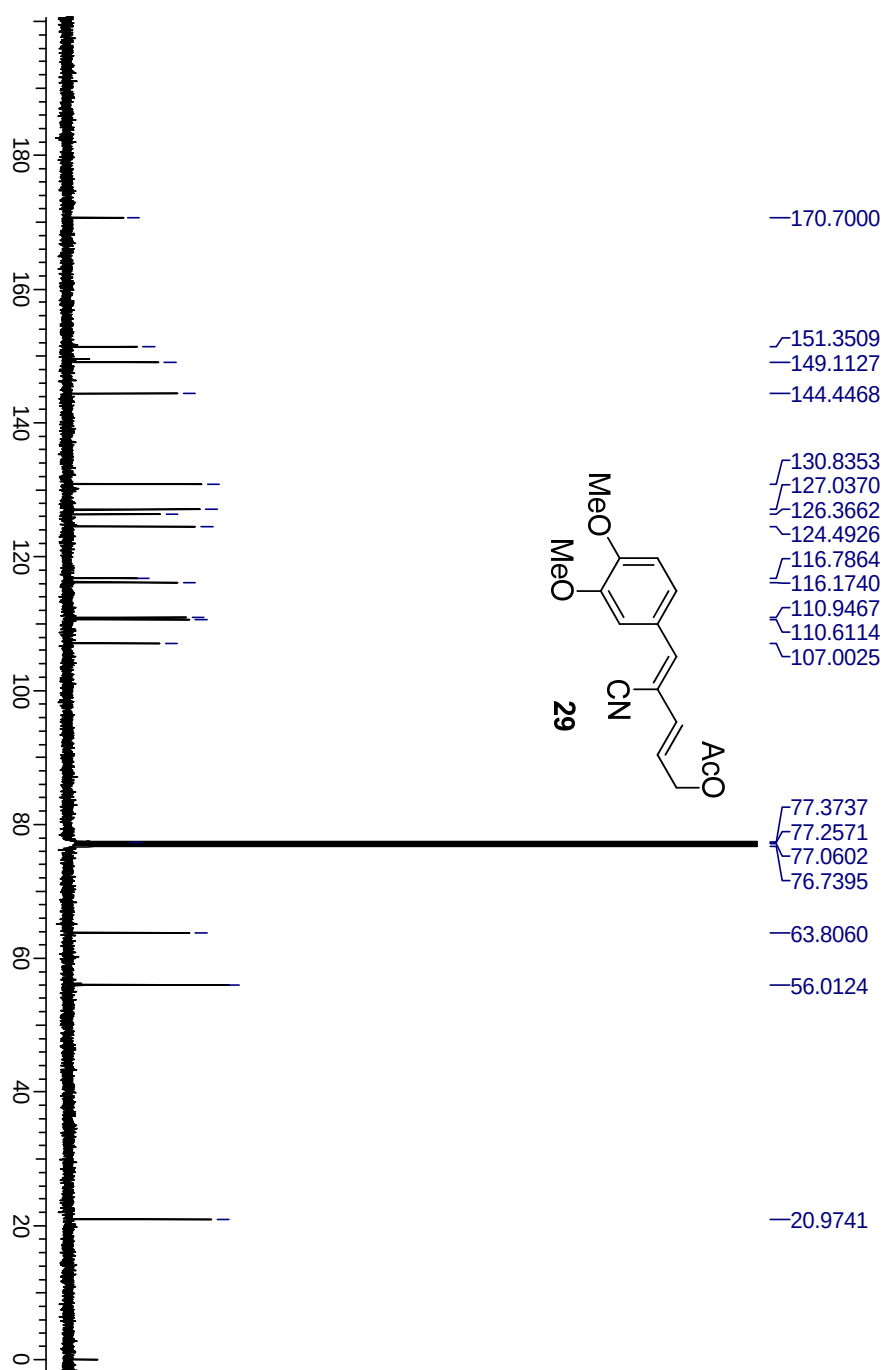


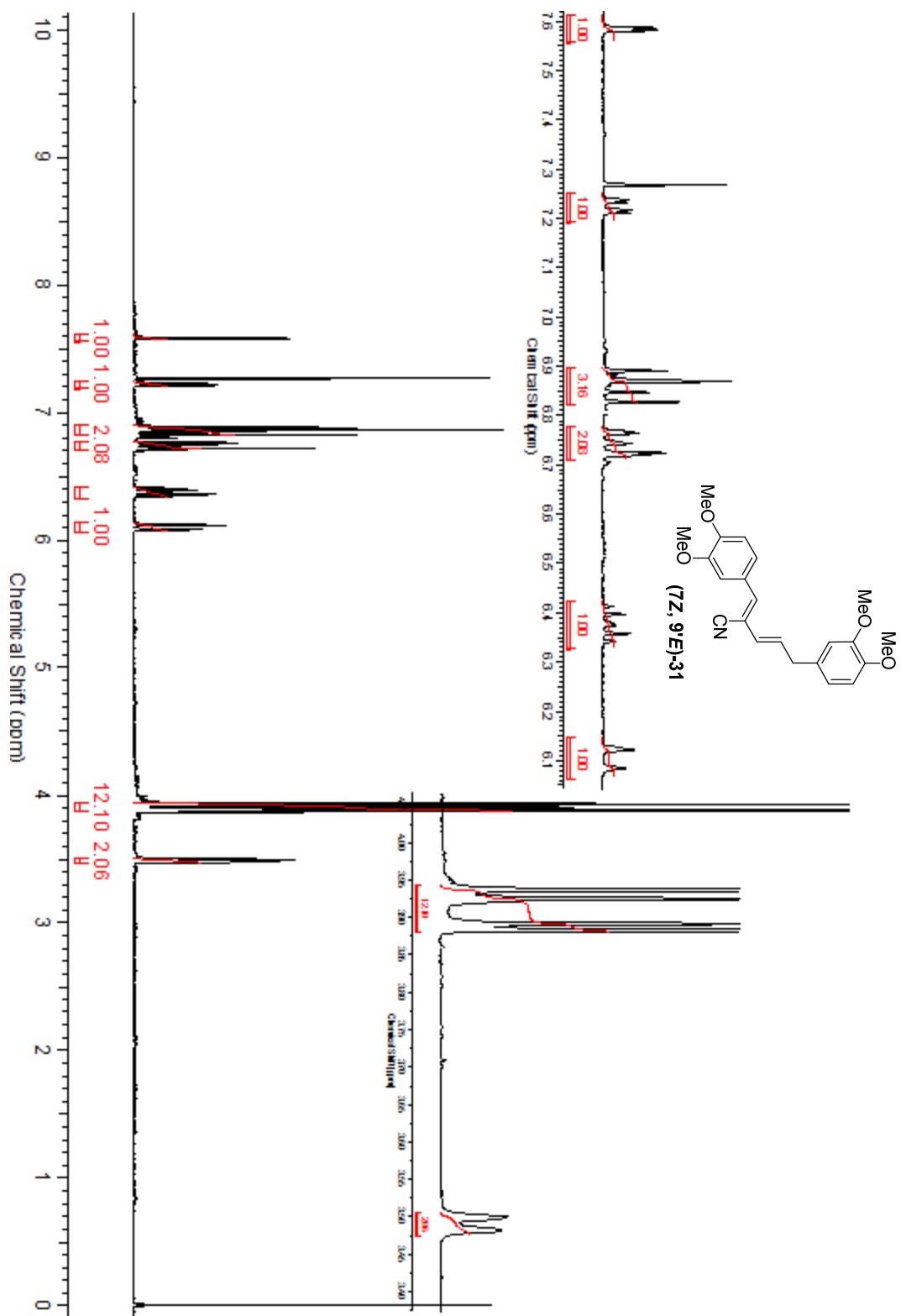


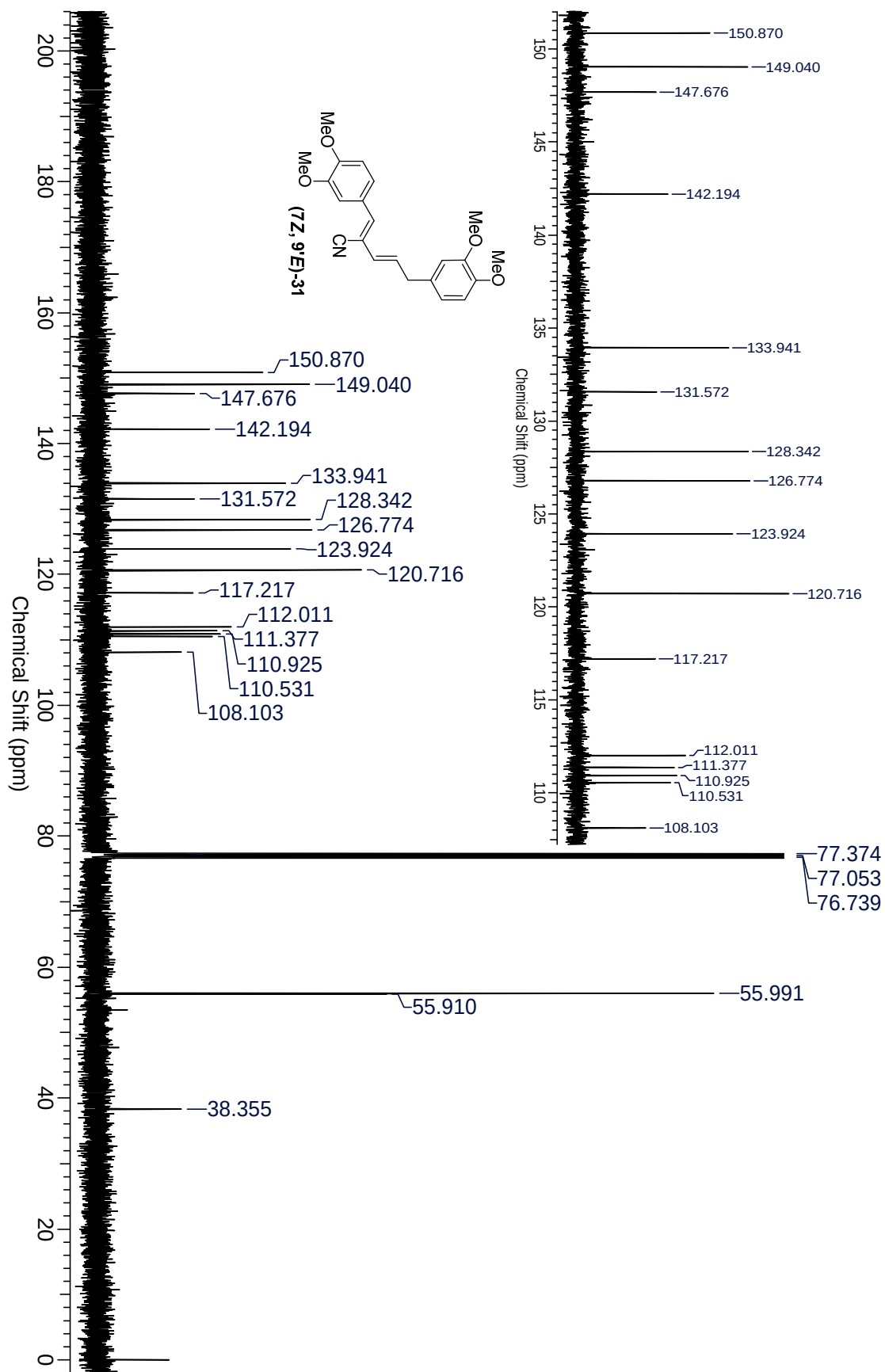


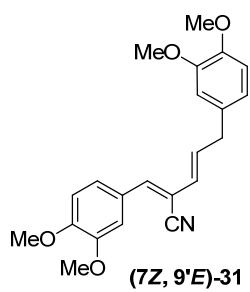
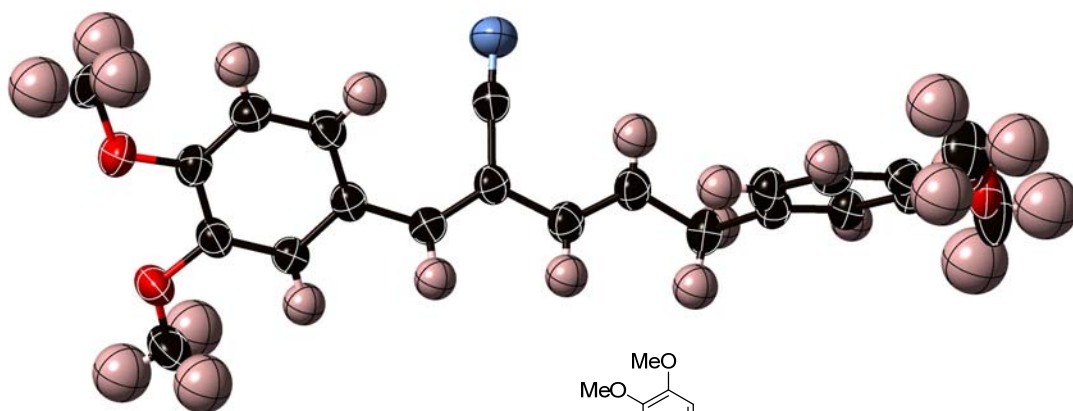


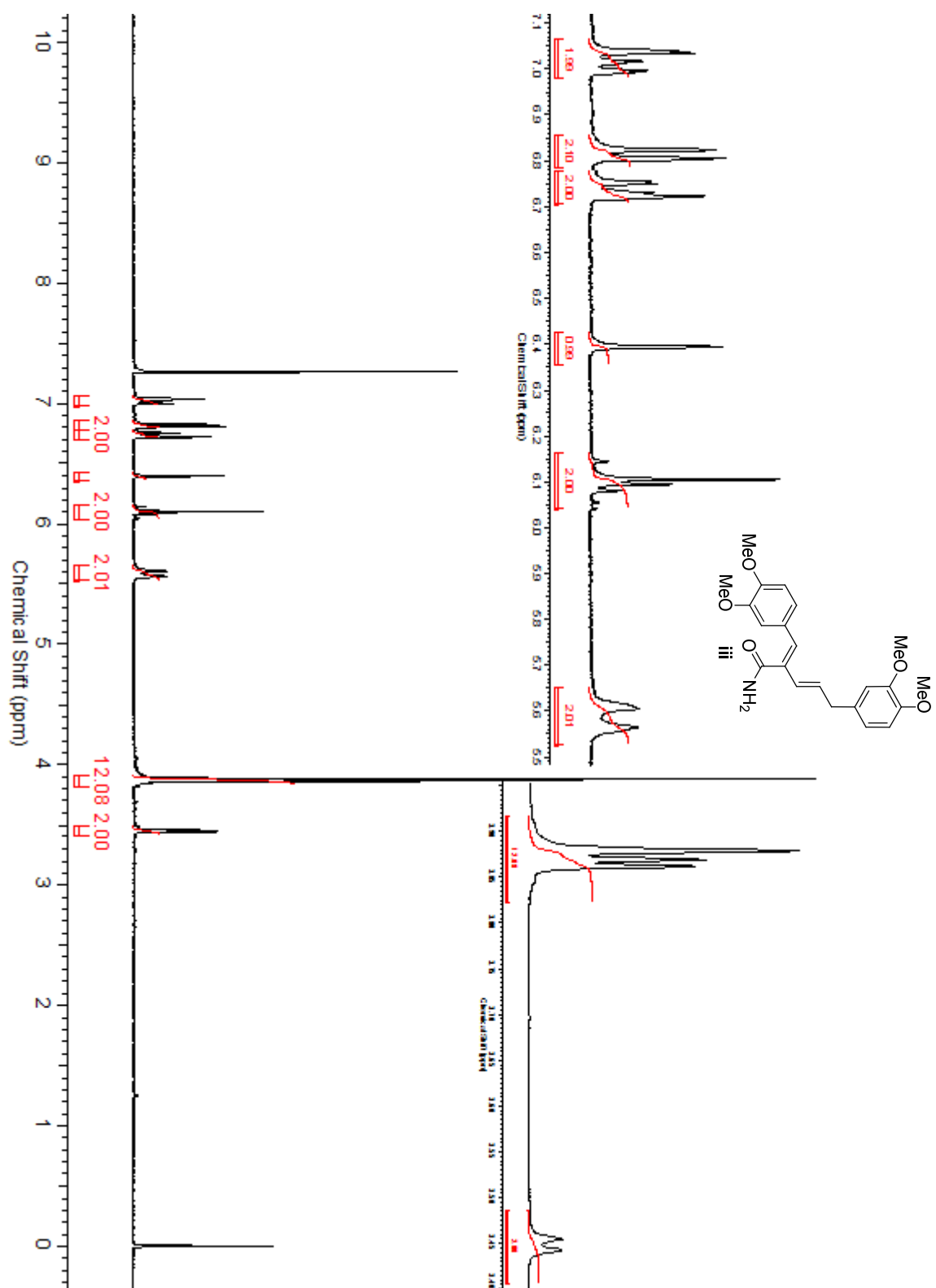


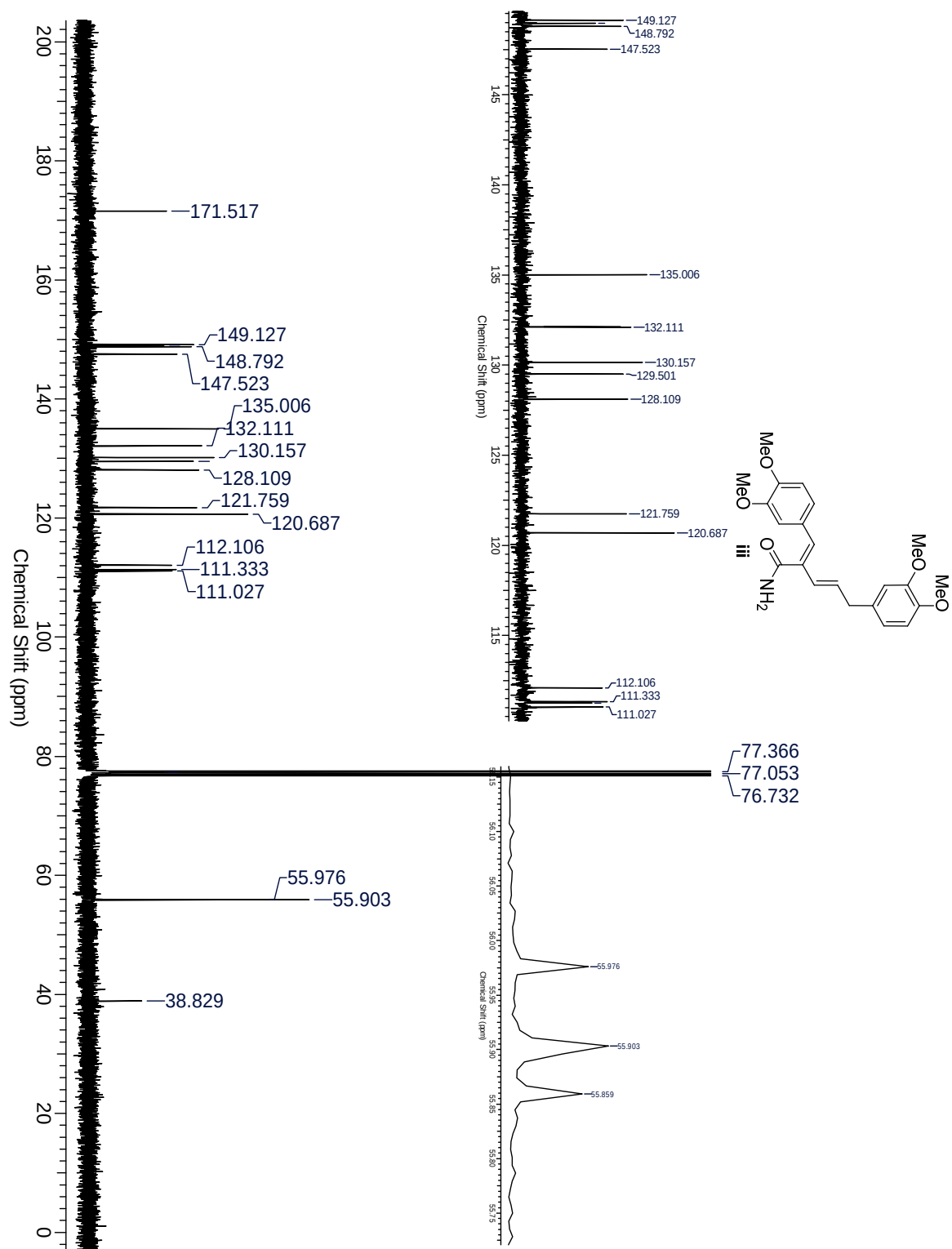


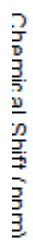


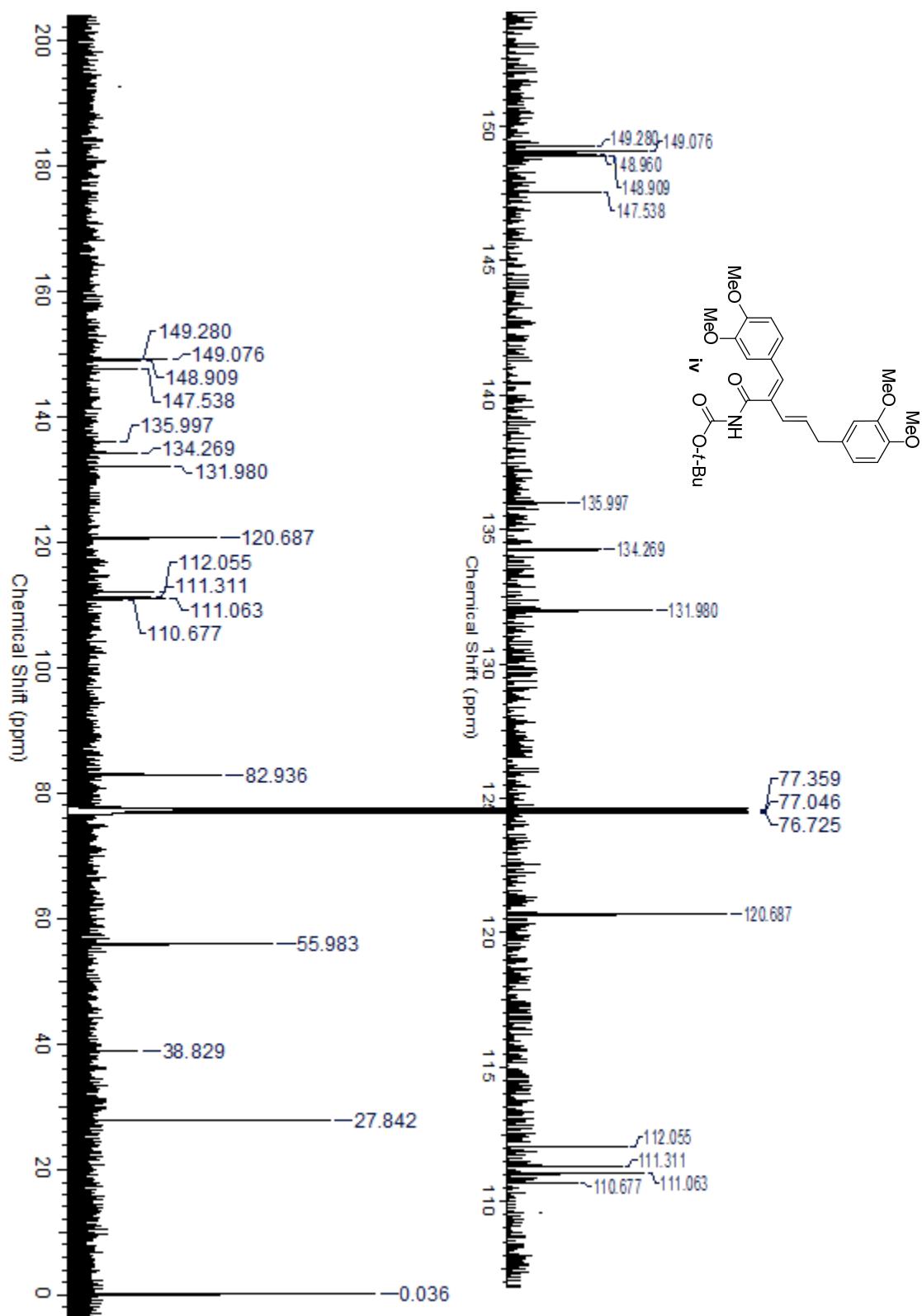


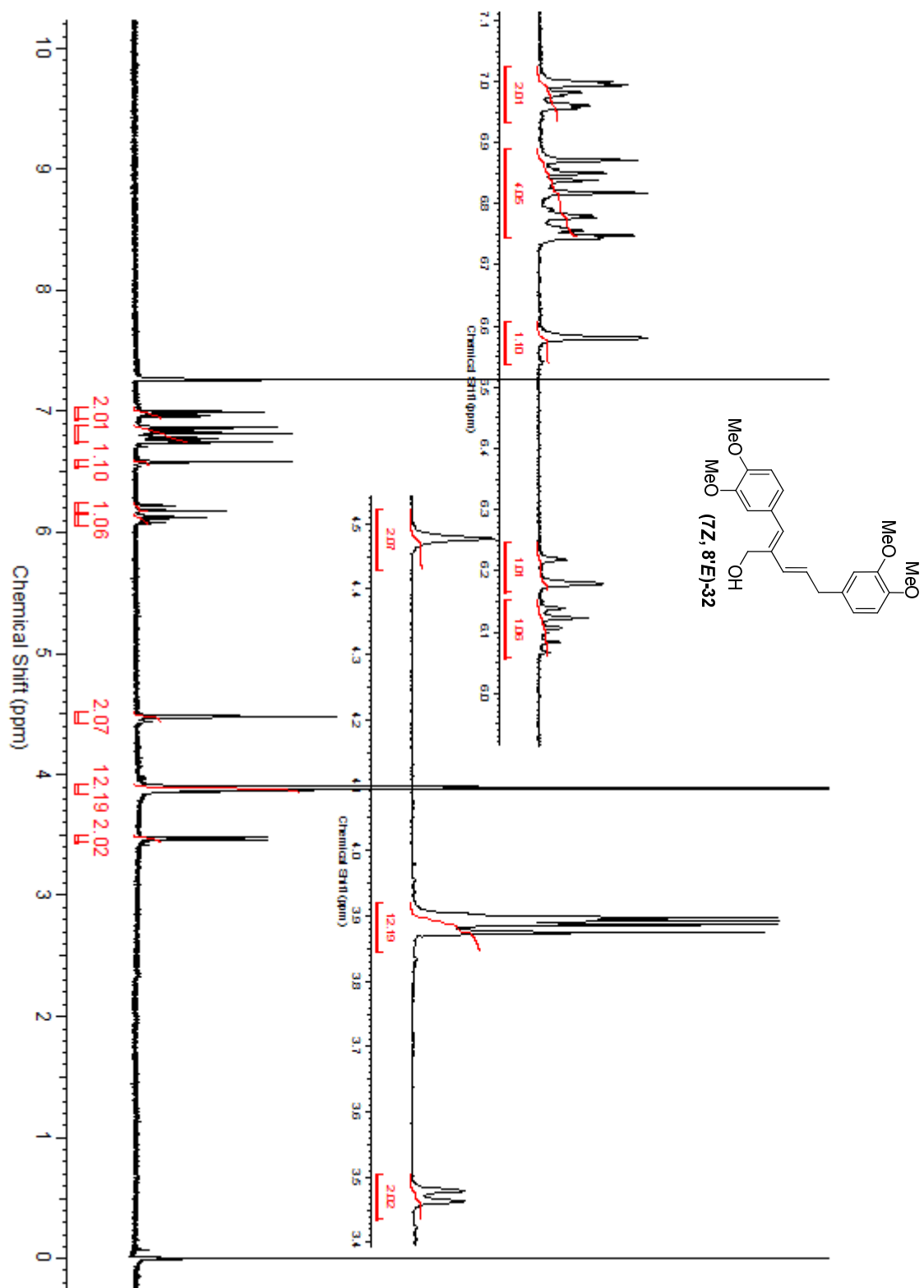


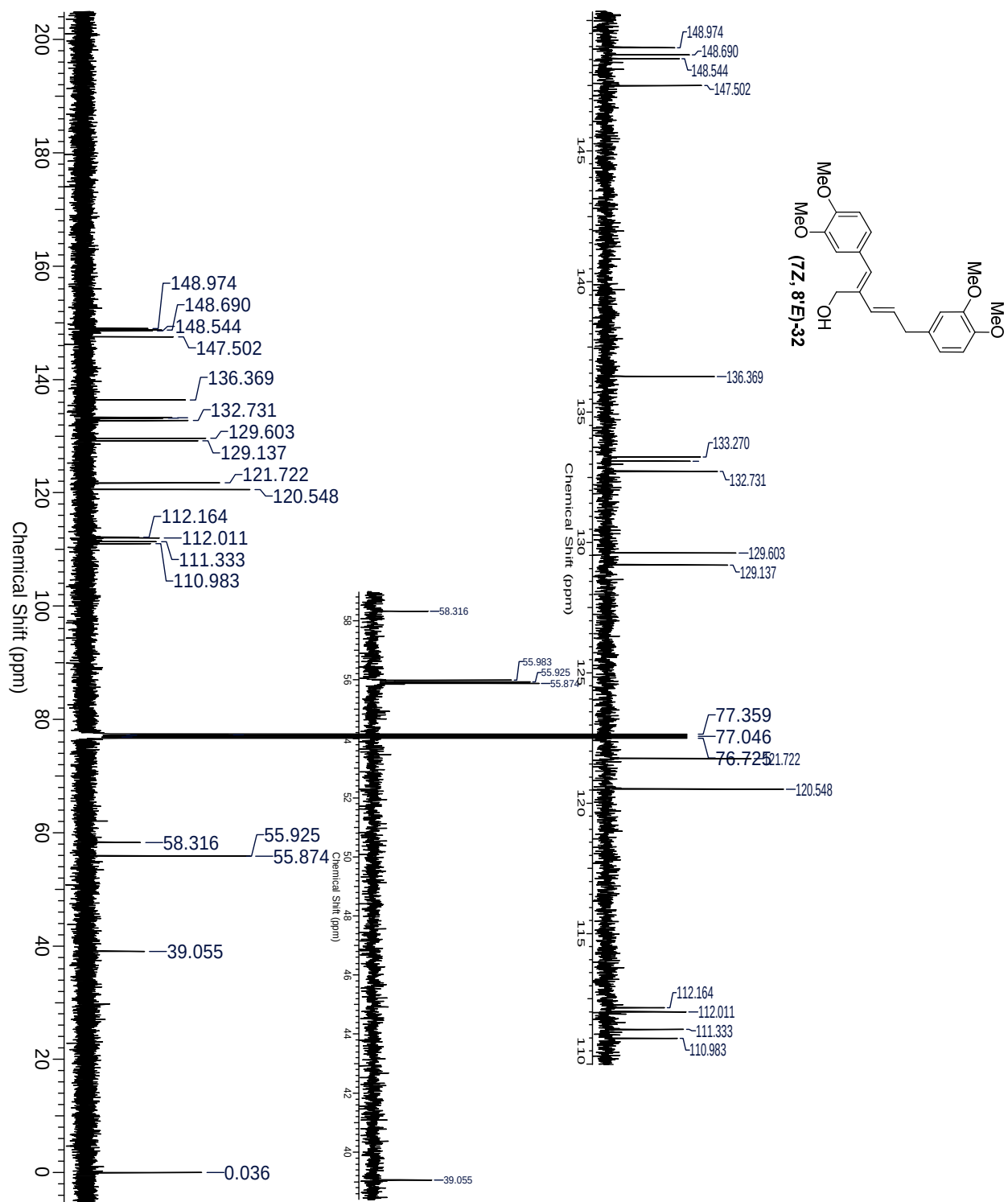


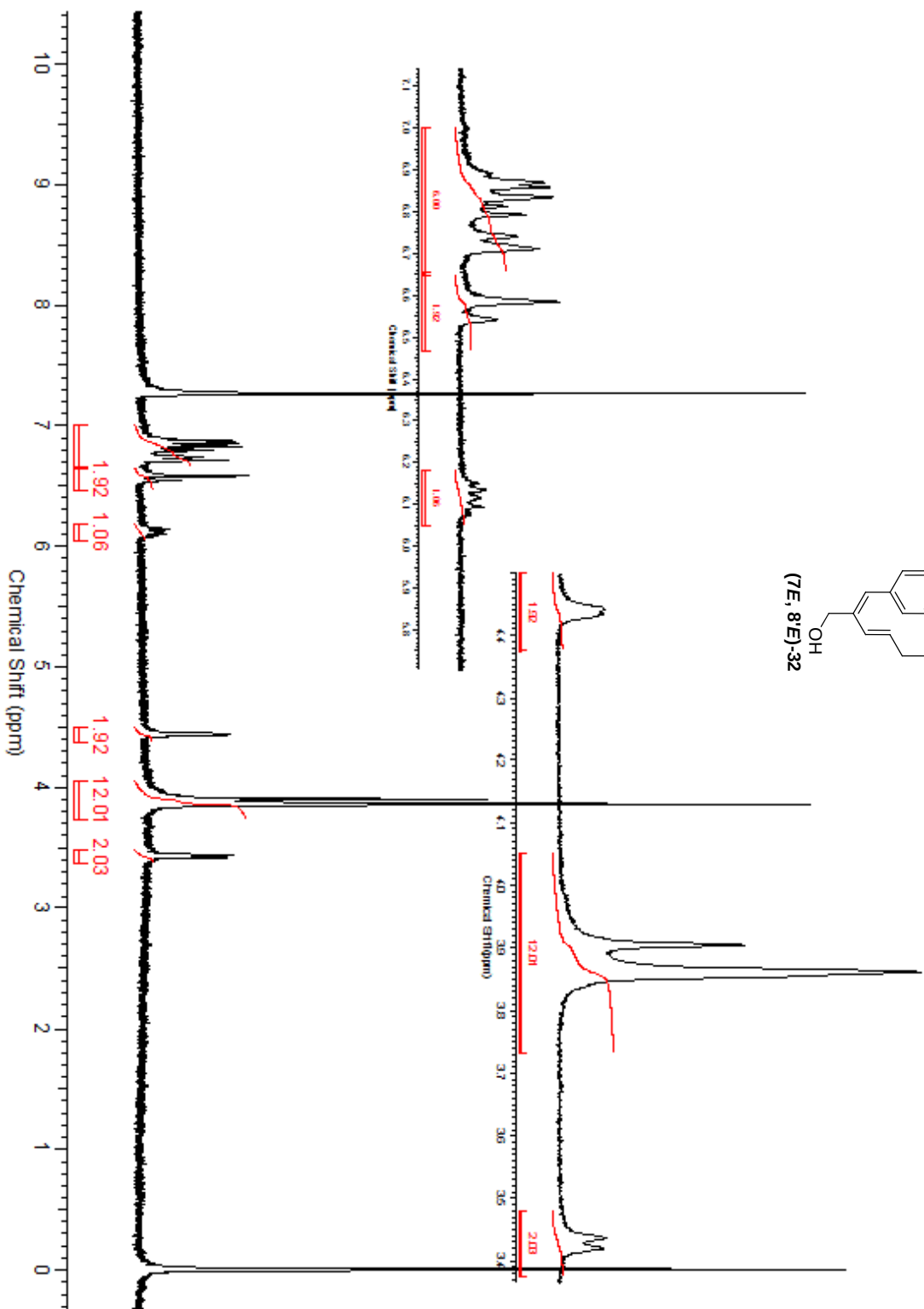
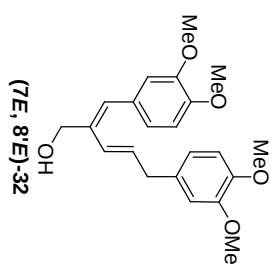












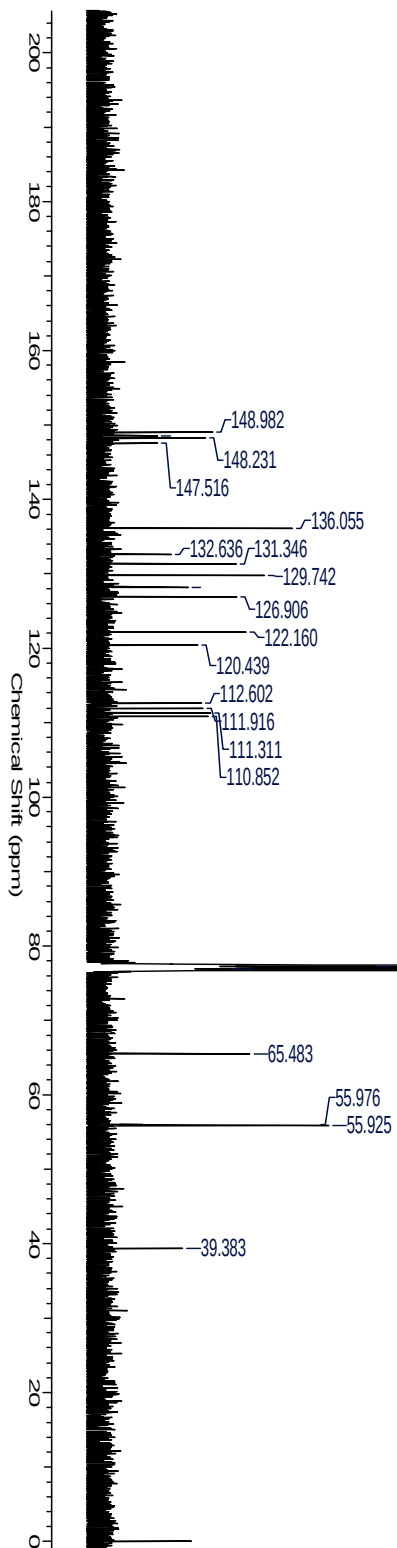
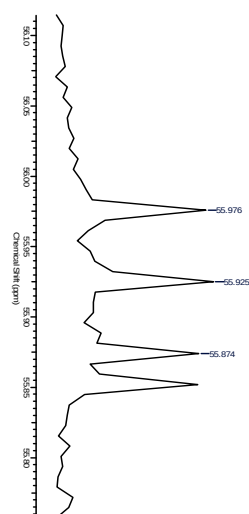
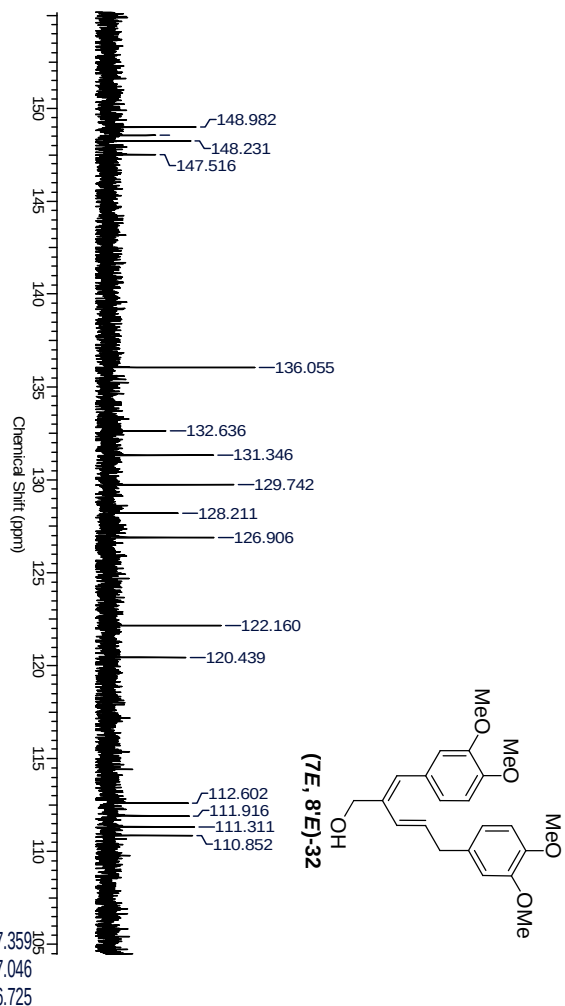


Table 1. Comparison of Morinol Lignan Chemical Shifts

C/H Position	"Morinol I"	(7Z, 7'E)-7	(7E, 7'E)-7	(7Z, 7'Z)-7	(7Z, 8'E)-32	(7E, 8'E)-32
C4	149.2	149.0	150.0	148.6	149.0	149.0
C3	149.0	148.6	148.6	148.6	148.7	148.5
C4'	148.6	148.5	148.5	148.1	148.5	148.2
C3'	147.8	148.1	147.9	148.0	147.5	147.5
C1	130.7	138.5	137.9	138.7	136.4	136.0
C7	130.6	131.7	131.0	131.0	133.3	132.6
C8	130.3	130.4	130.4	130.1	133.0	131.3
C6'	128.9	129.8	129.8	130.0	132.7	129.7
C8'	128.5	129.4	126.9	128.9	129.6	128.2
C1'	128.1	126.0	125.5	127.9	129.1	126.9
C9'	127.2	121.2	121.0	121.2	121.7	122.1
C6	119.2	119.1	118.9	121.2	120.5	120.4
C2'	113.1	112.0	111.9	112.0	112.2	112.3
C5	111.3	111.1	111.1	111.9	112.0	111.9
C2	109.2	110.9	110.9	111.0	111.3	111.3
C5'	109.2	108.6	108.5	110.9	111.0	110.8
C9	64.2	61.3	67.2	77.2	58.3	65.4
C7'	36.2	39.5	32.3	34.7	39.1	39.4
H2	7.03	6.98	6.92	6.93	7.00	6.86
H6	6.88	6.95	6.91	6.94	6.97	6.86
H5'	6.88	6.87	6.90	6.86	6.86	6.84
H6'	6.83	6.88	6.85	6.87	6.82	6.82
H5	6.79	6.84	6.82	6.86	6.77	6.73
H2'	6.71	6.89	6.92	6.89	6.74	6.71
H9'	6.28	6.47	6.43	6.66	6.20	6.56
H7	6.24	6.50	6.65	6.51	6.58	6.58
H8'	6.18	6.20	6.18	5.82	6.11	6.12
H9	4.33	4.34	4.28	4.35	4.47	4.44
H7'	3.55	3.20	3.42	3.36	3.47	3.42