

Total Asymmetric Synthesis of (+)-Asenapine.

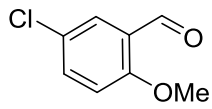
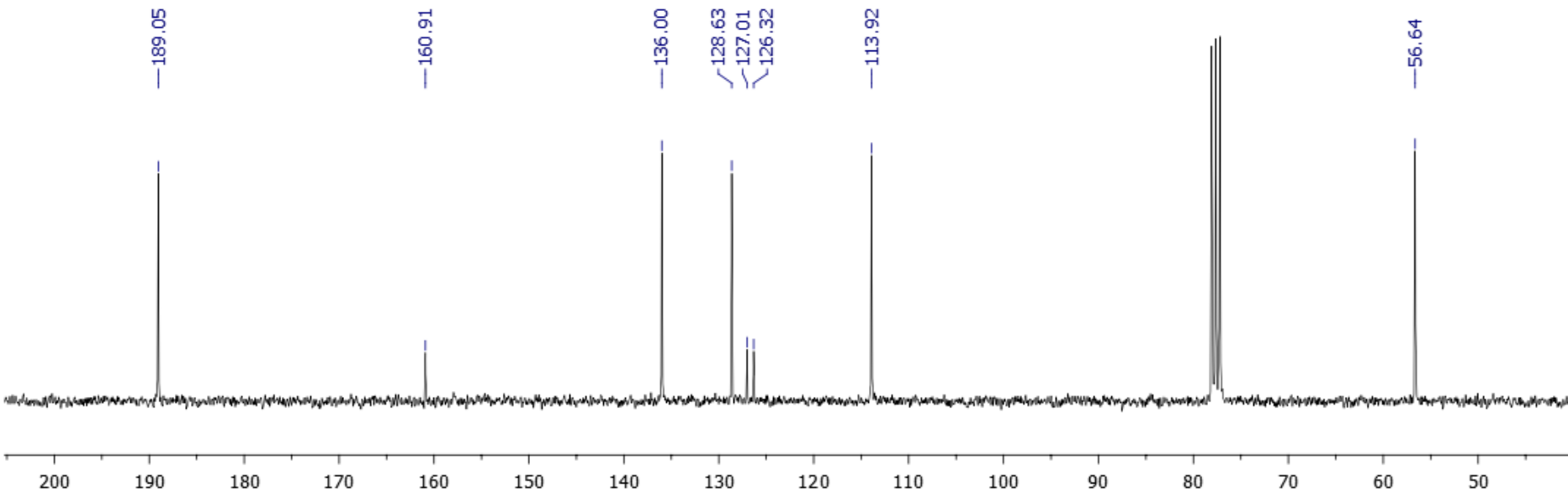
Piotr Szcześniak^{1*}, Olga Staszewska-Krajewska², Jacek Młynarski²

1 Faculty of Chemistry, Jagiellonian University, Gronostajowa 2, 30-387 Kraków, Poland

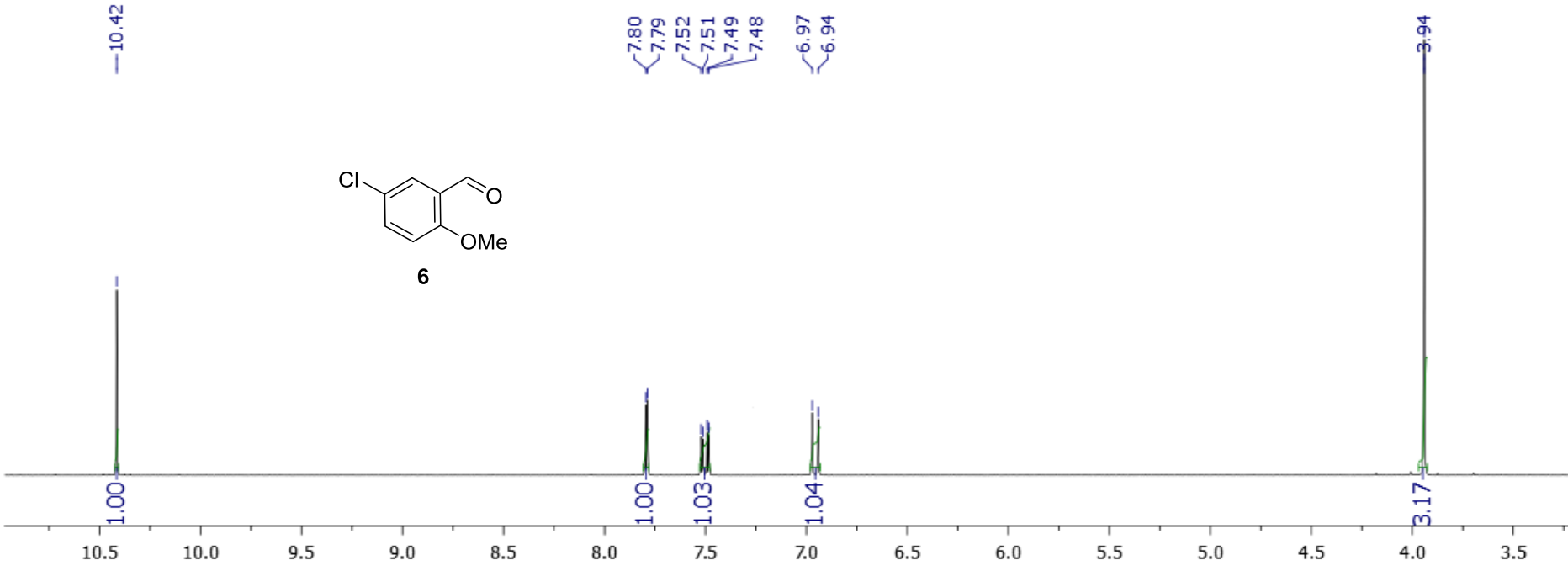
*2 Institute of Organic Chemistry, Polish Academy of Sciences, Kasprzaka 44/52, 01-224
Warsaw, Poland*

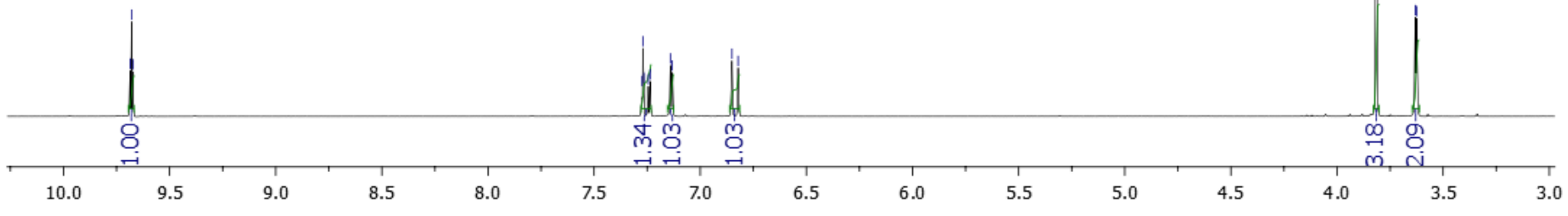
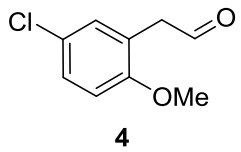
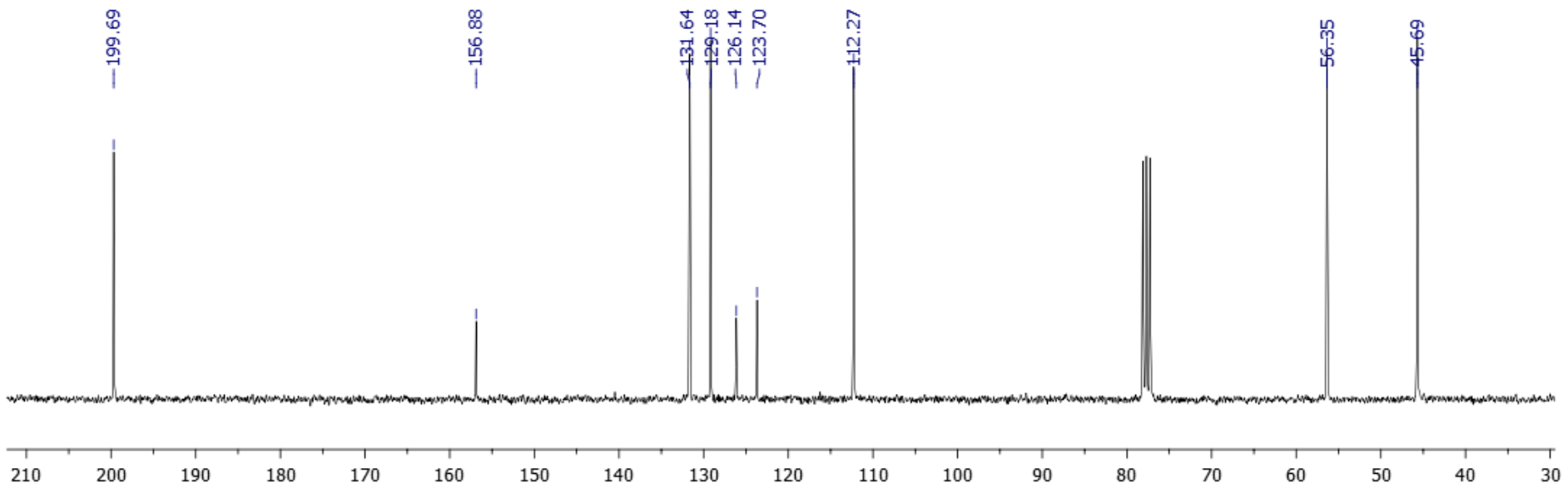
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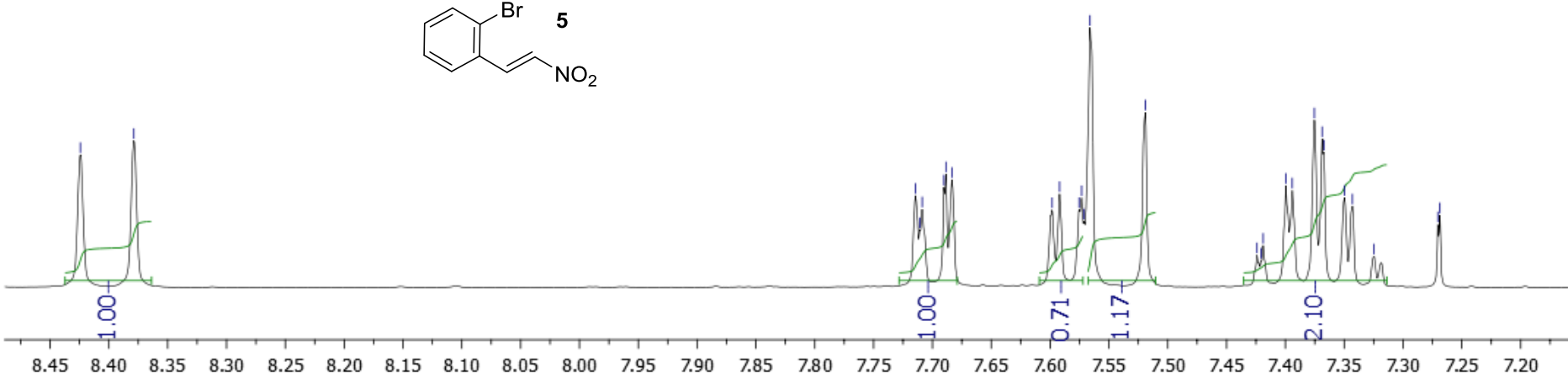
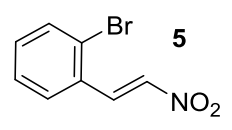
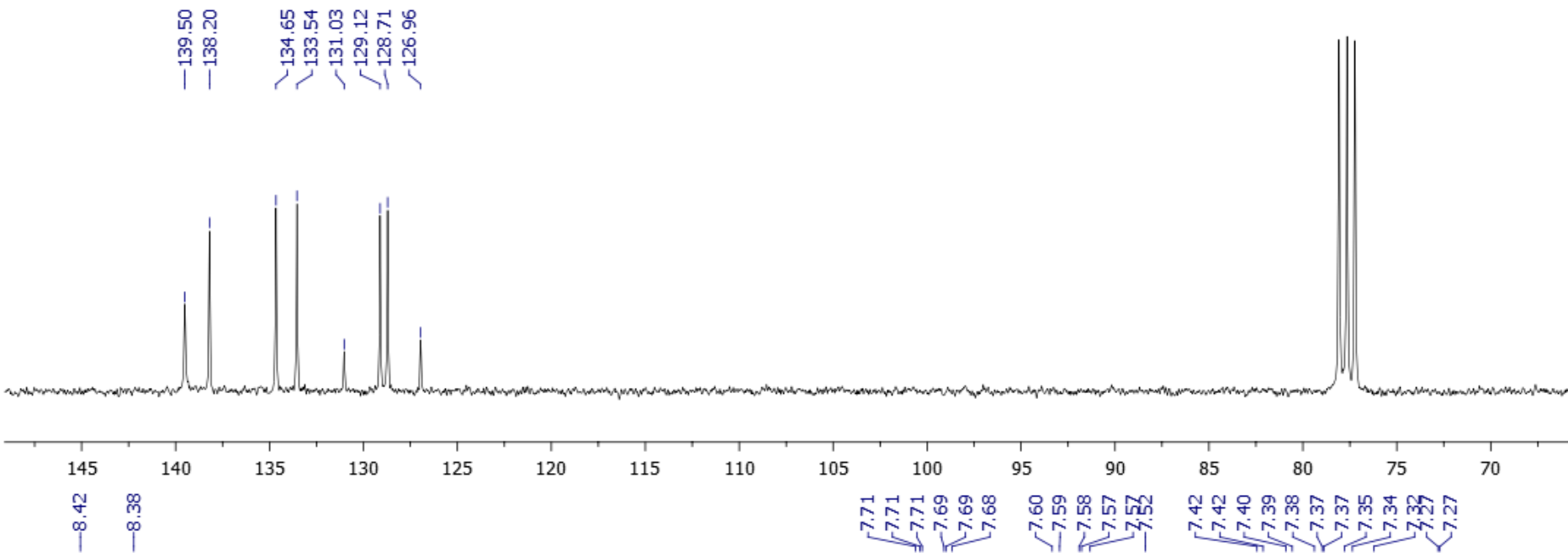
1. Copies of ¹ H, ¹³ C NMR, NOE, HPLC spectra	S1-S14
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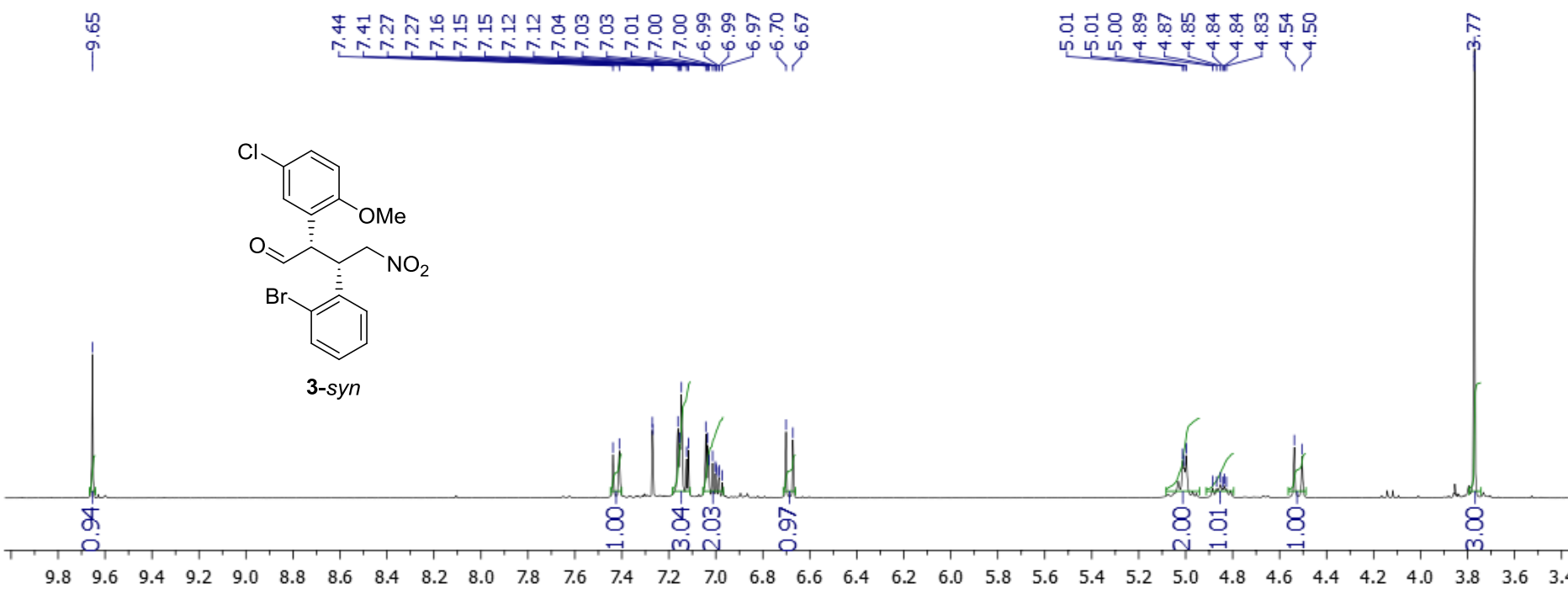
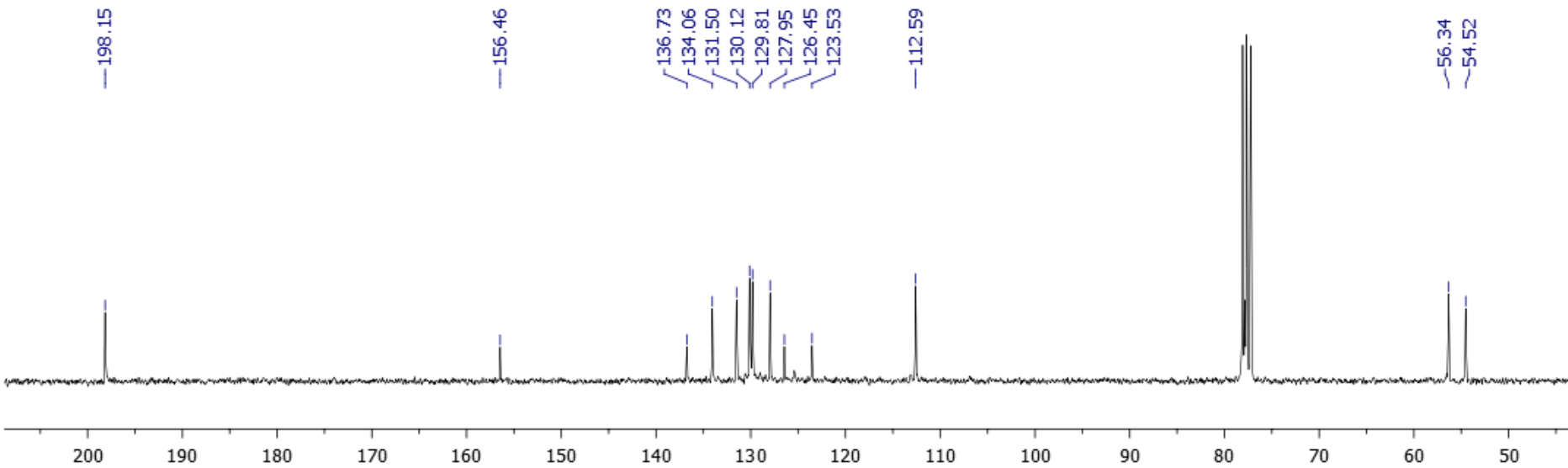


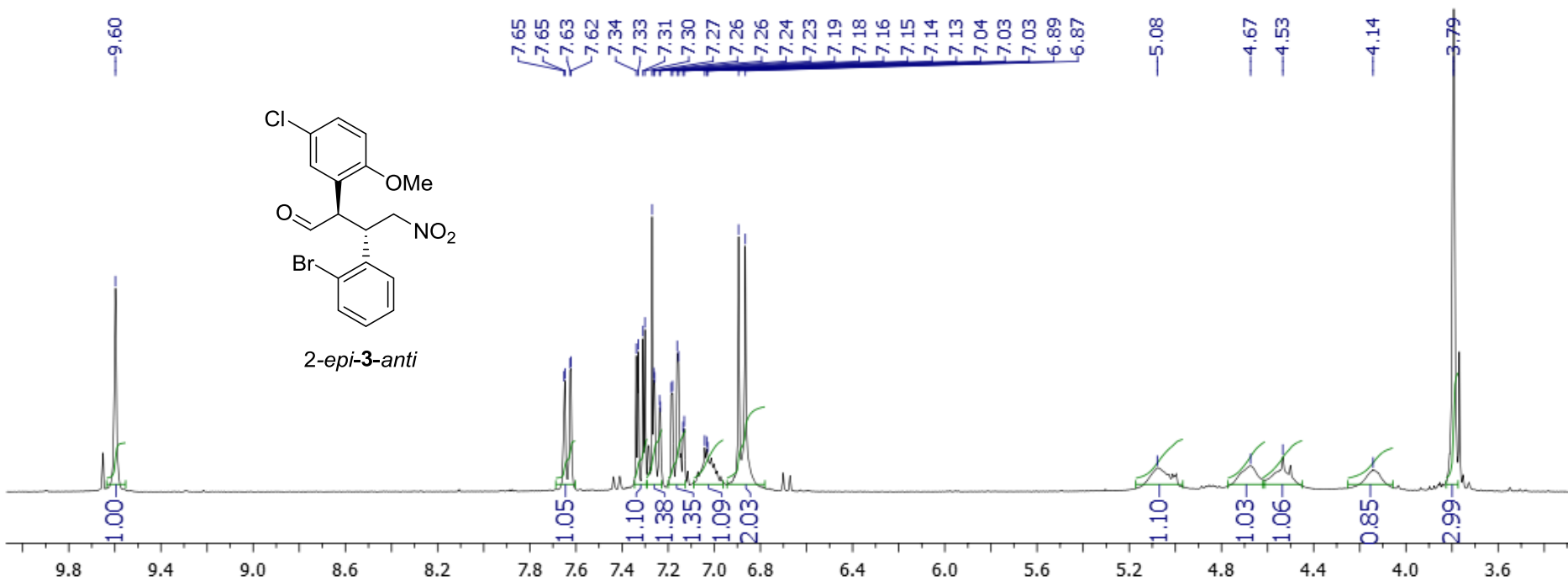
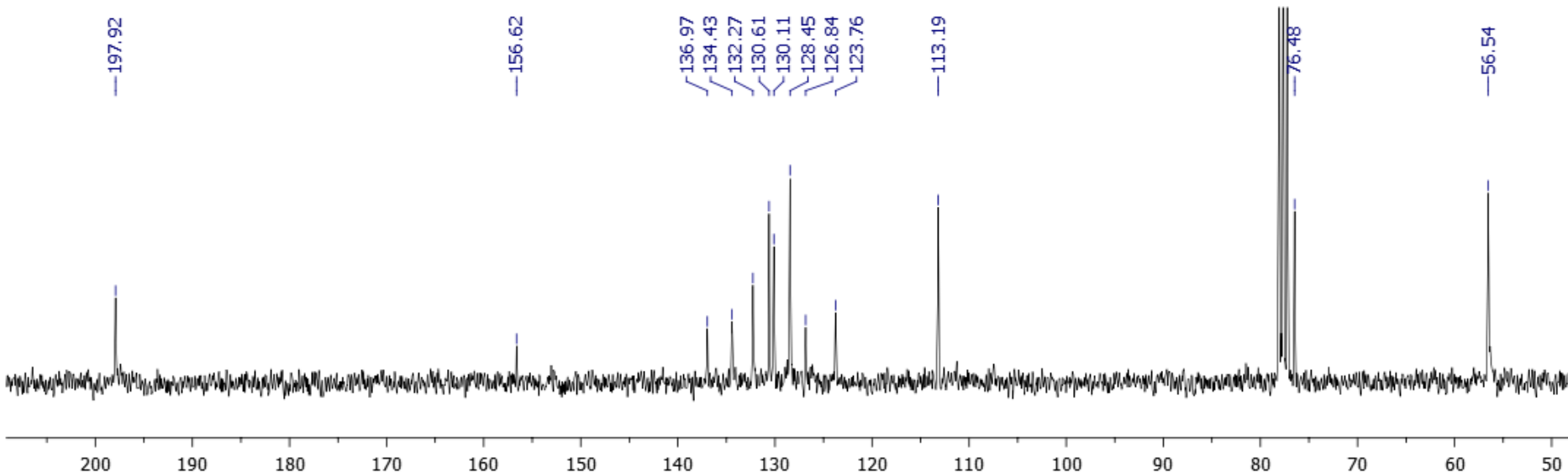
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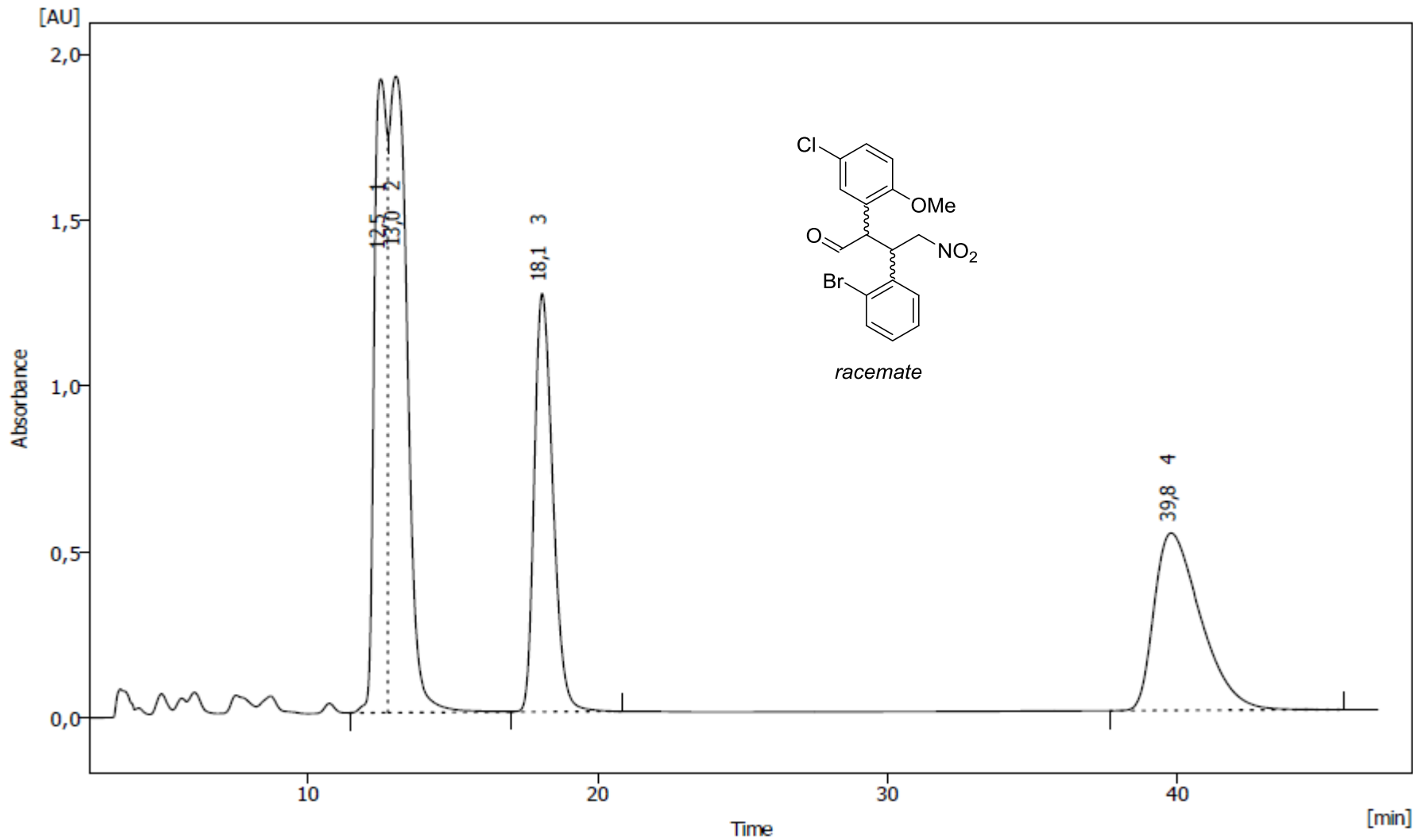




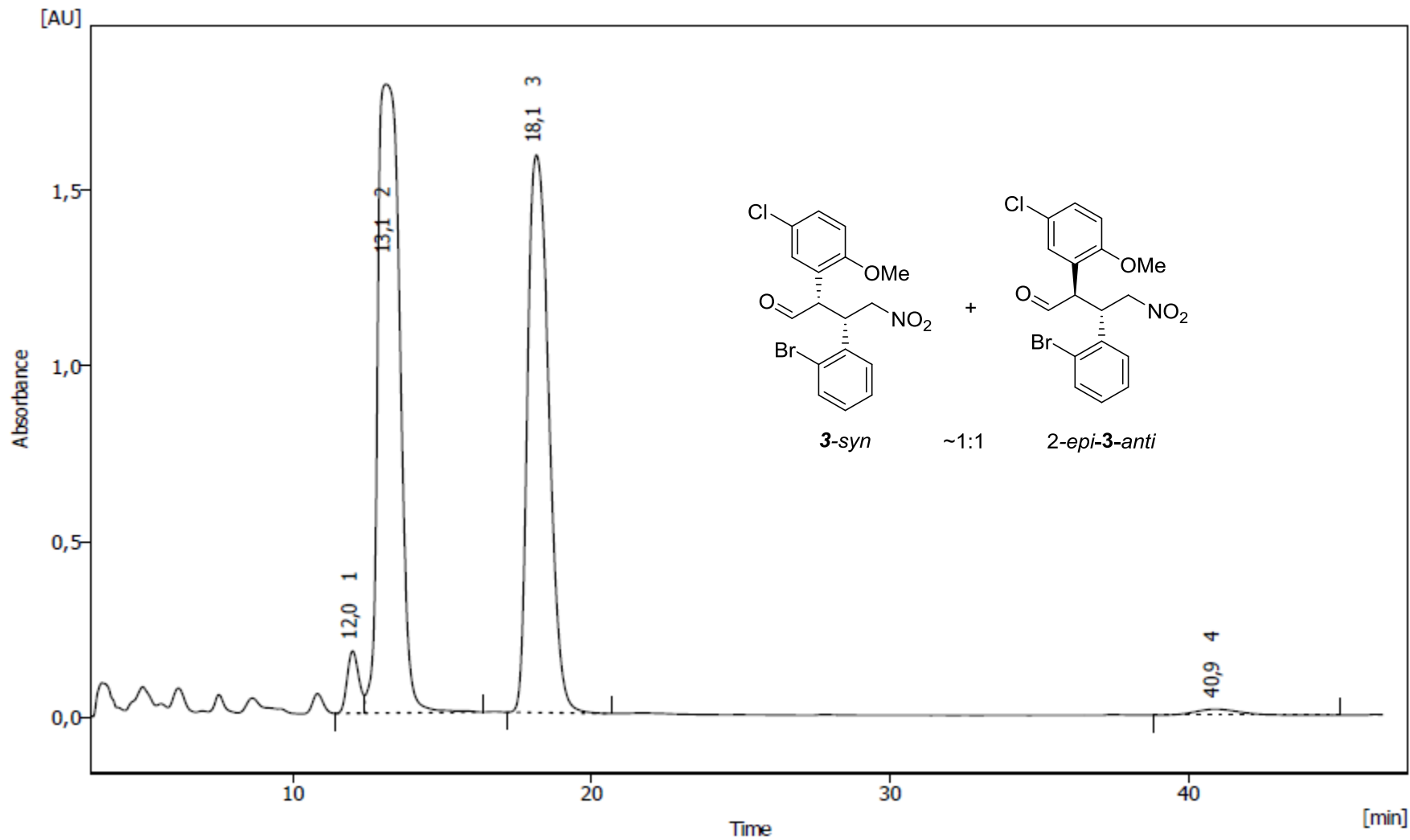




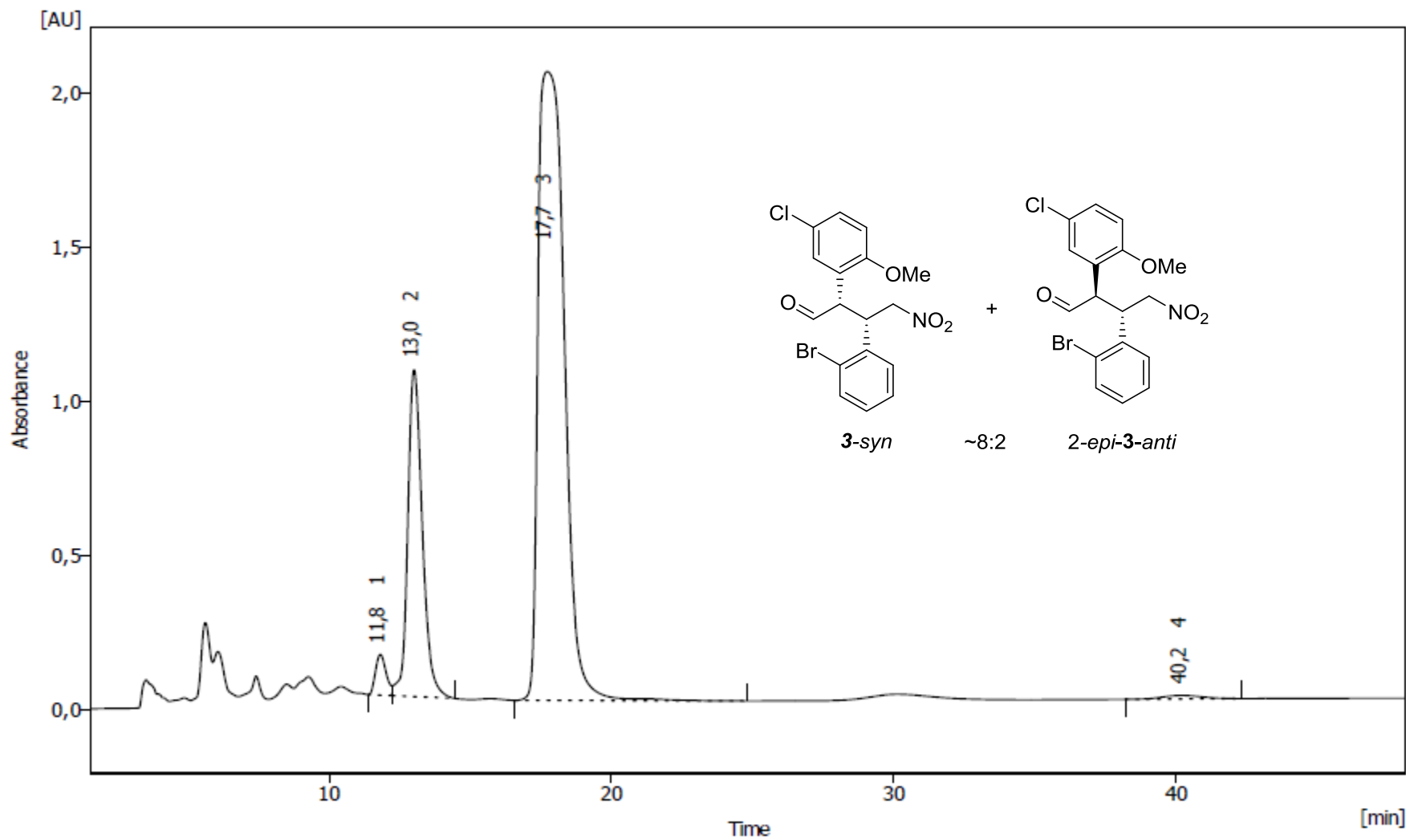
	Reten. Time [min]	Area [mAU.s]	Height [mAU]	Area [%]	Height [%]	W05 [min]	PDA Peak Purity
1	12,517	56392,849	1908,035	21,9	34,0	0,52	915
2	13,033	85842,970	1915,852	33,3	34,1	0,72	834
3	18,083	55934,672	1259,454	21,7	22,4	0,70	932
4	39,783	59636,991	534,342	23,1	9,5	1,73	966
	Total	257807,482	5617,683	100,0	100,0		

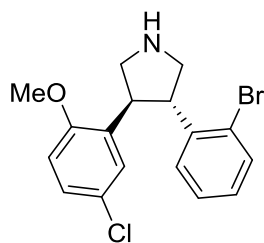
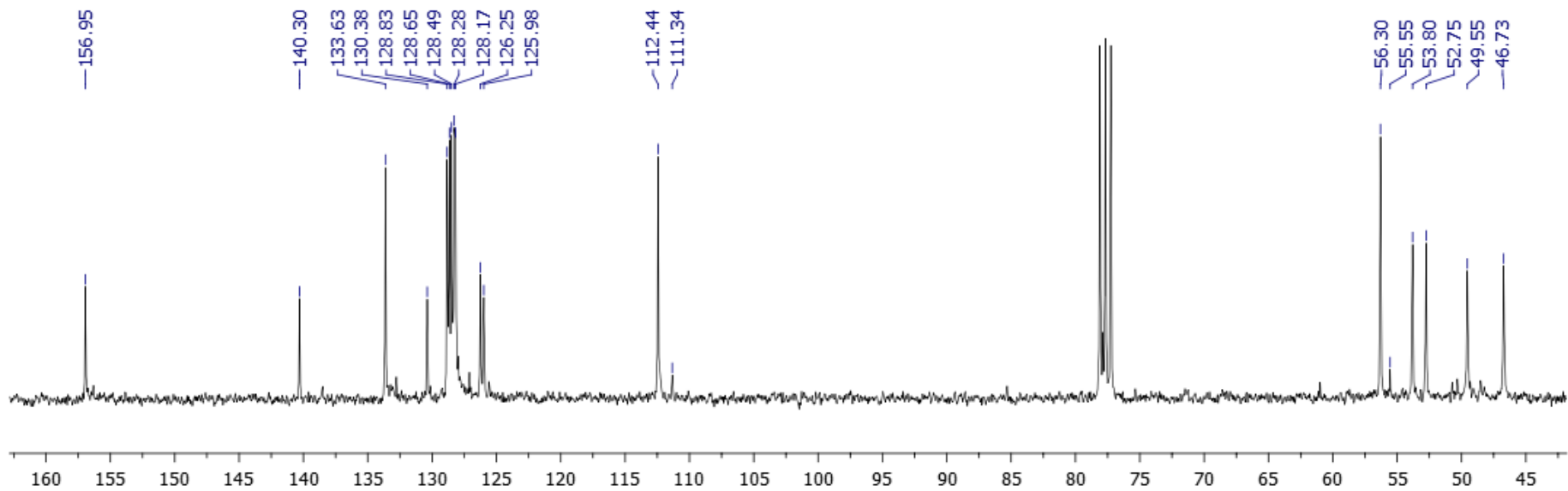


	Reten. Time [min]	Area [mAU.s]	Height [mAU]	Area [%]	Height [%]	W05 [min]	PDA Peak Purity
1	12,000	4869,194	177,687	2,7	5,0	0,47	993
2	13,117	91949,874	1790,662	51,9	50,1	0,83	867
3	18,150	78486,950	1588,323	44,3	44,4	0,80	933
4	40,883	1761,206	16,932	1,0	0,5	1,62	988
	Total	177067,224	3573,604	100,0	100,0		

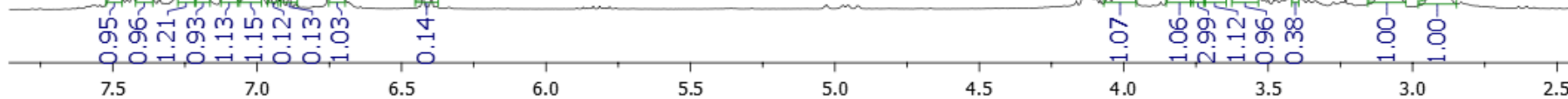


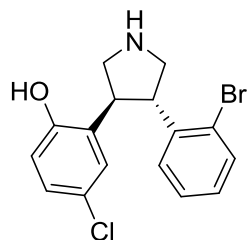
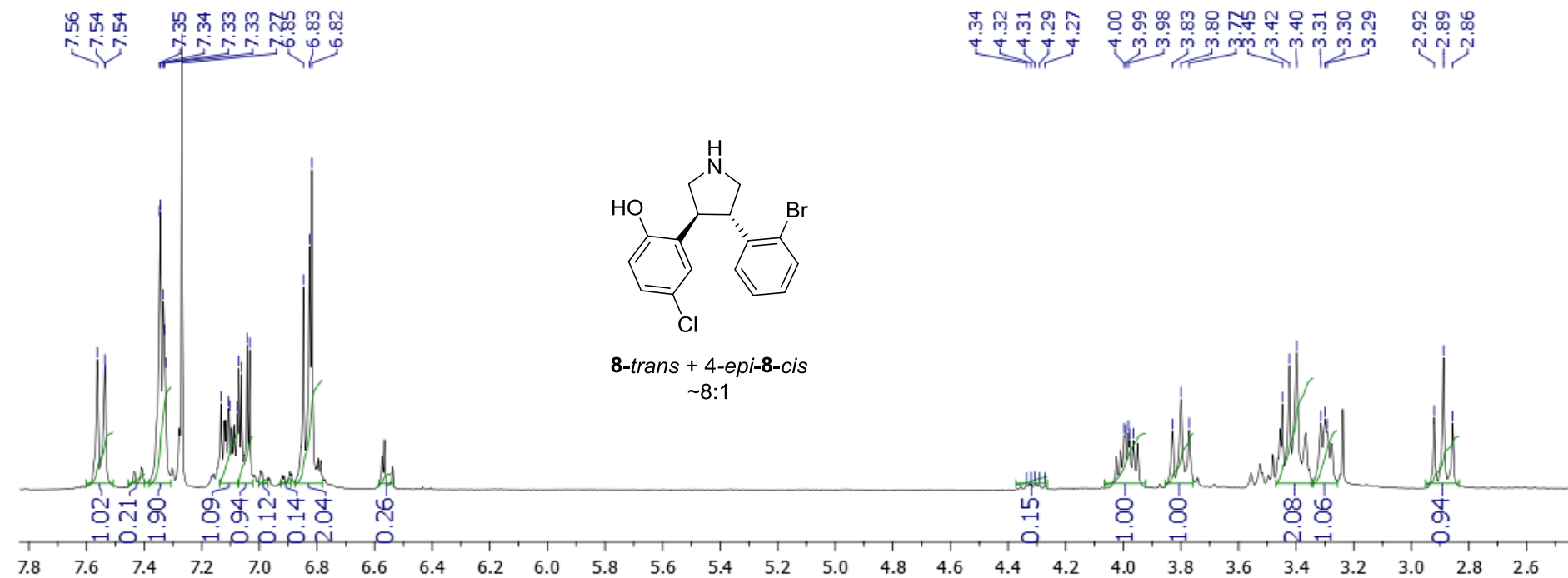
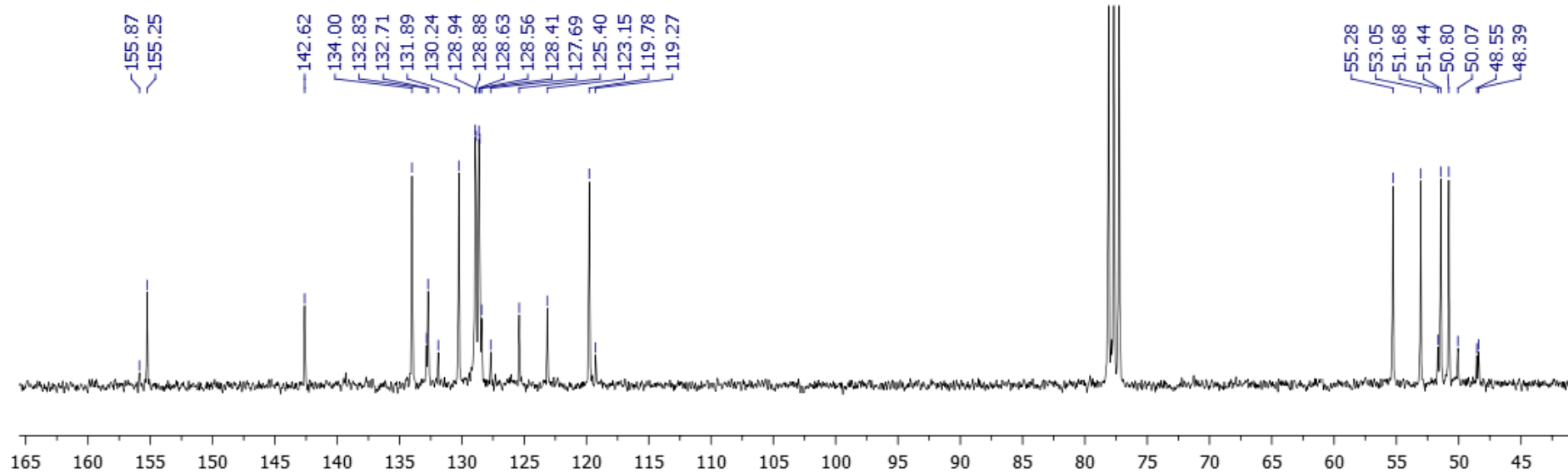
	Reten. Time [min]	Area [mAU.s]	Height [mAU]	Area [%]	Height [%]	W05 [min]	PDA Peak Purity
1	11,817	3457,438	132,272	2,0	4,1	0,43	978
2	13,017	38109,433	1060,115	21,8	32,7	0,55	946
3	17,717	131940,725	2039,144	75,6	62,9	1,02	682
4	40,200	1127,725	11,631	0,6	0,4	1,57	999
	Total	174635,320	3243,161	100,0	100,0		



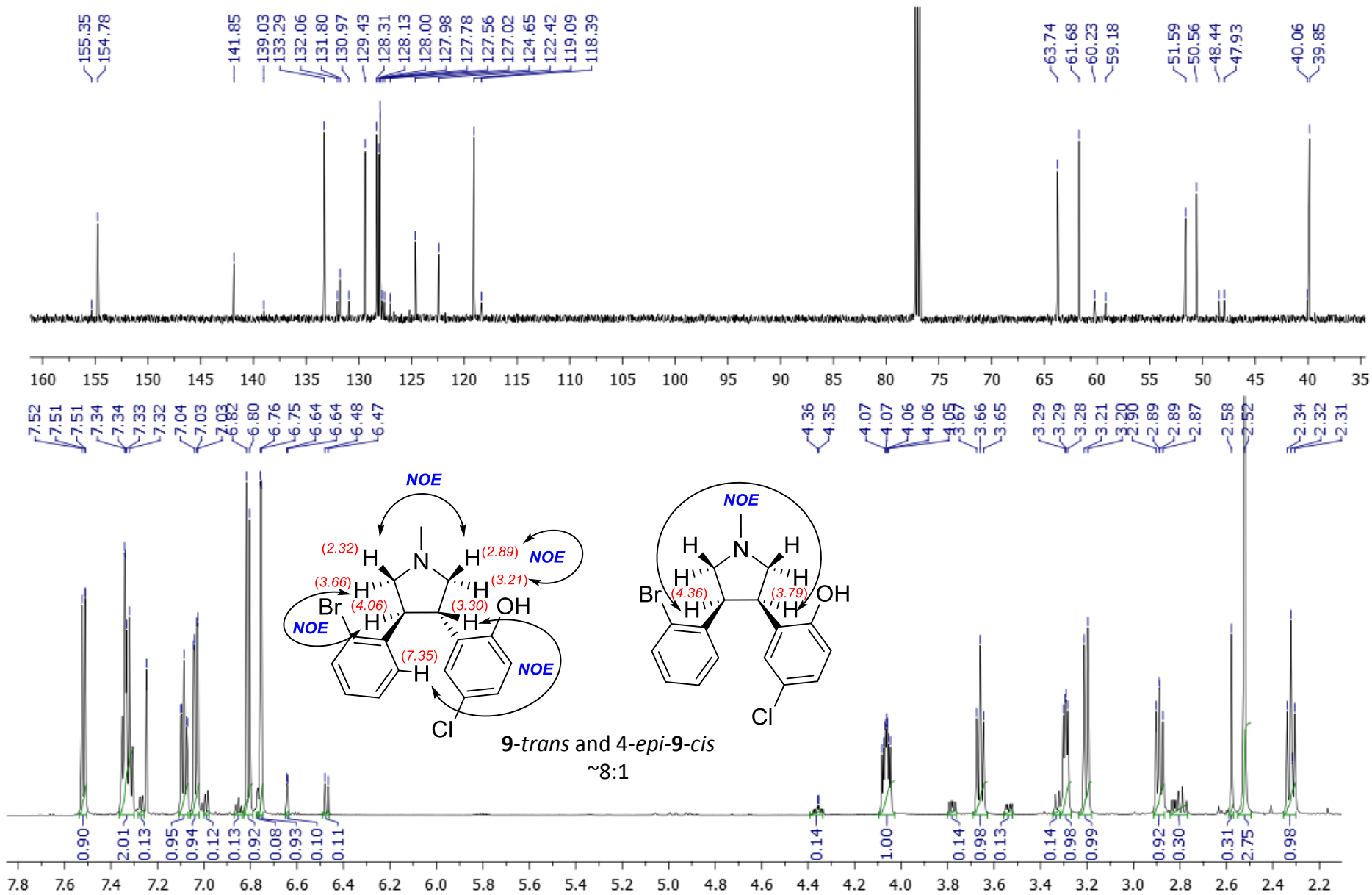


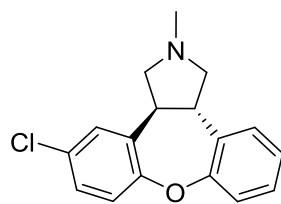
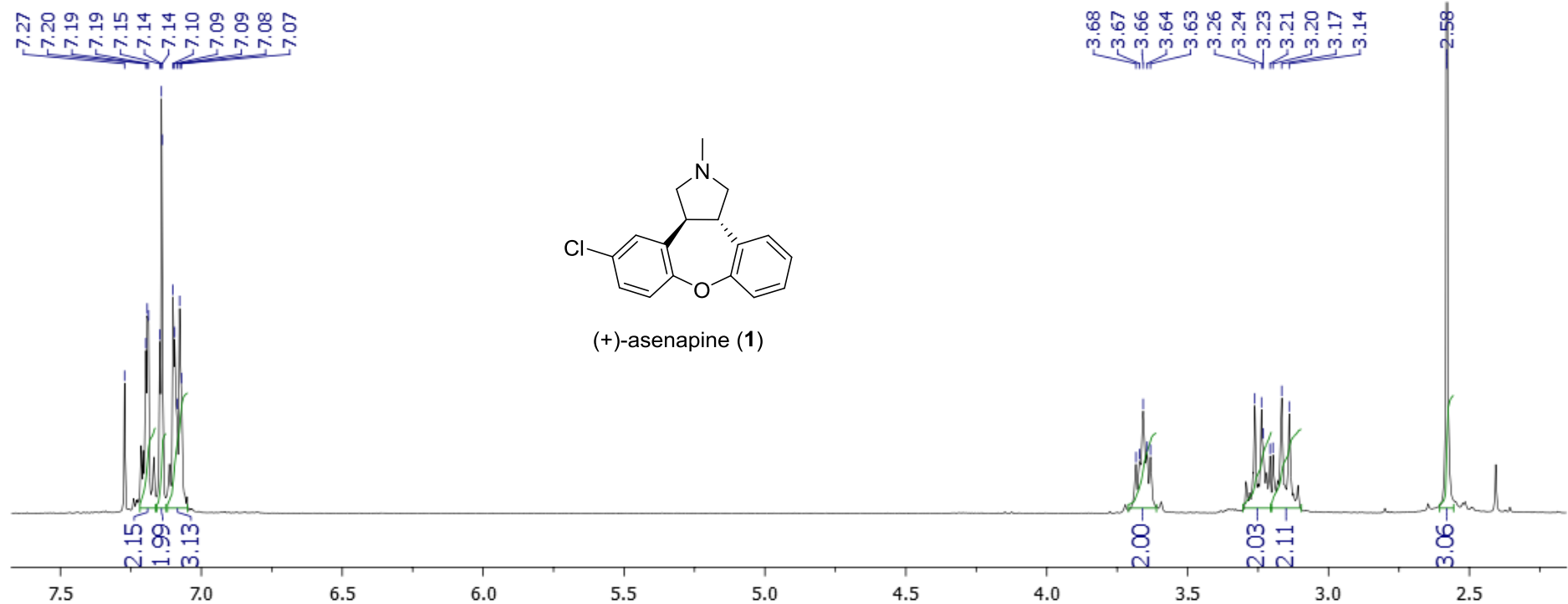
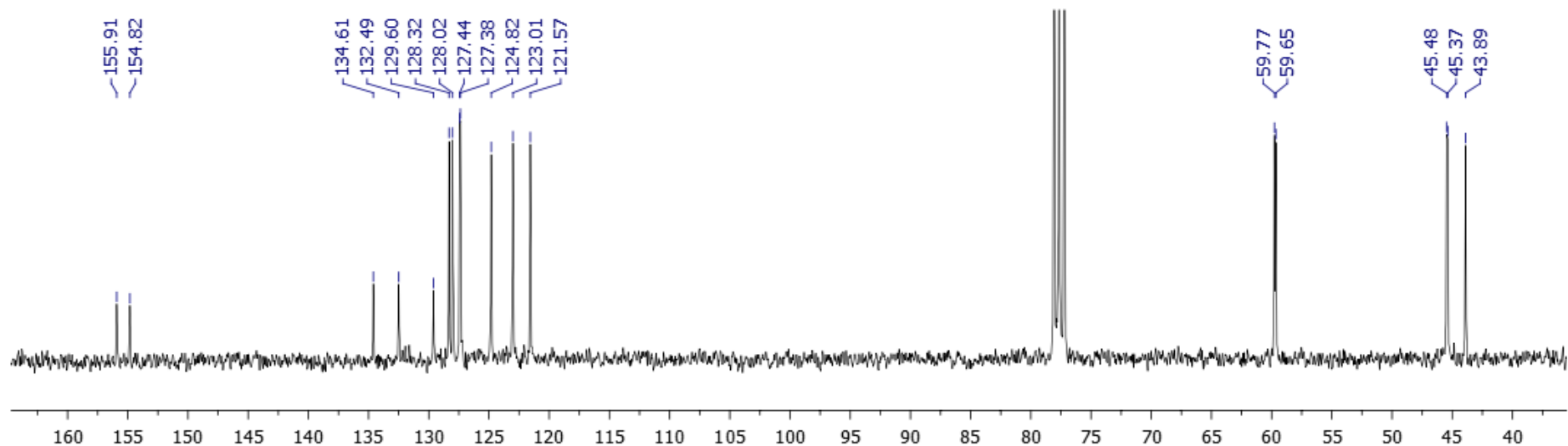
7-trans + 4-epi-7-cis
~8:1





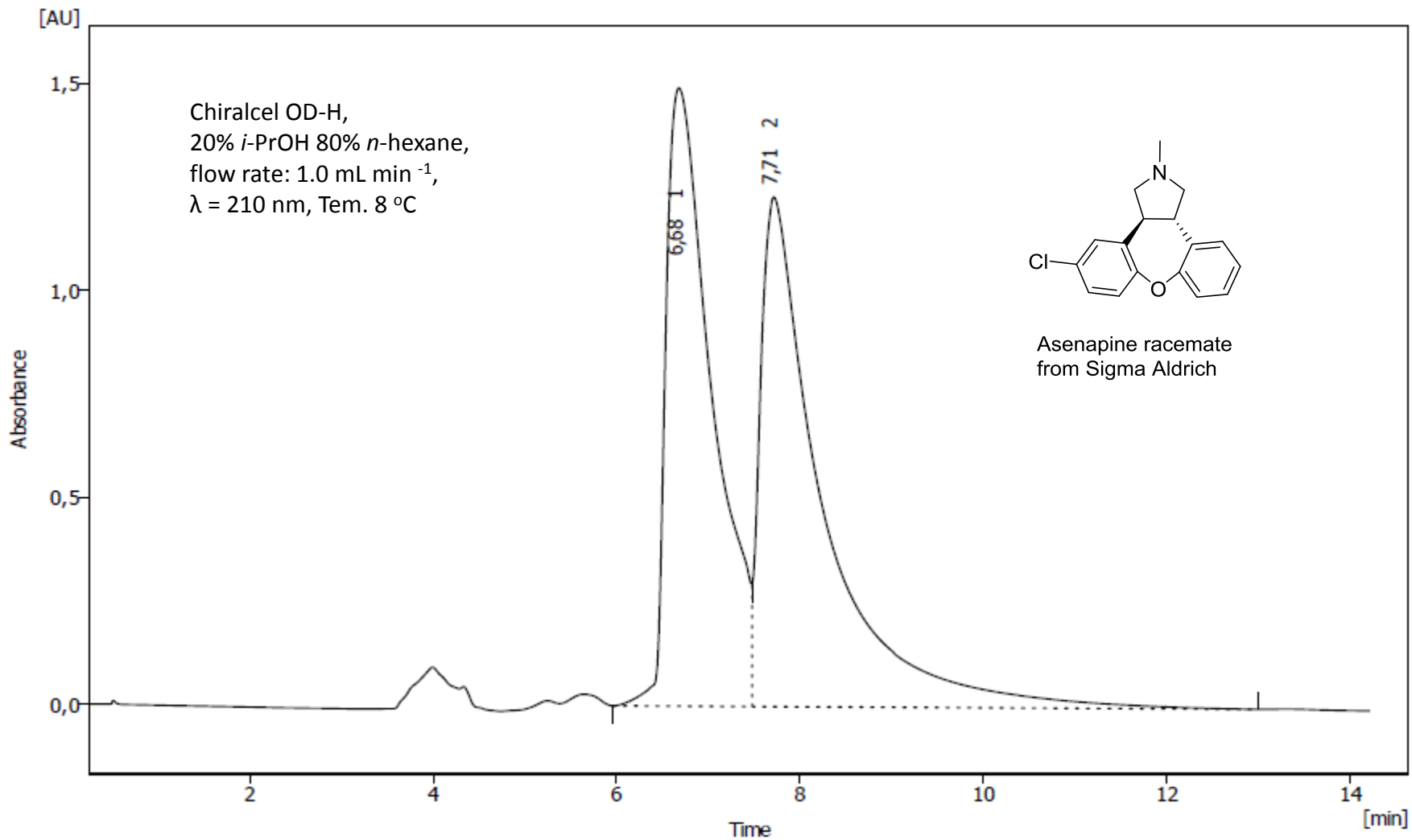
8-*trans* + 4-*epi*-8-*cis*
~8:1





(+)-asenapine (1)

	Reten. Time [min]	Area [mAU.s]	Height [mAU]	Area [%]	Height [%]	W05 [min]	PDA Peak Purity
1	6,417	52181,476	1494,527	47,2	54,8	0,53	974
2	7,450	58369,058	1231,778	52,8	45,2	0,58	701
	Total	110550,535	2726,305	100,0	100,0		



	Reten. Time [min]	Area [mAU.s]	Height [mAU]	Area [%]	Height [%]	W05 [min]	PDA Peak Purity
1	6,283	78474,194	1600,640	100,0	100,0	0,63	880
	Total	78474,194	1600,640	100,0	100,0		

