

Supporting Information

for

**Enantioselective Pd(II)-Catalyzed Intramolecular Oxidative
6-*endo* Aminoacetoxylation of Unactivated Alkenes**

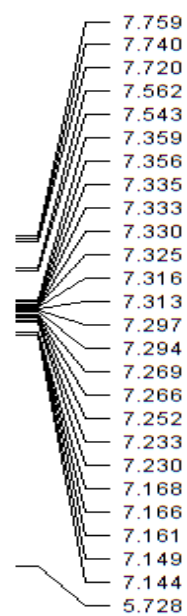
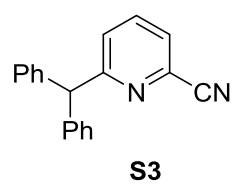
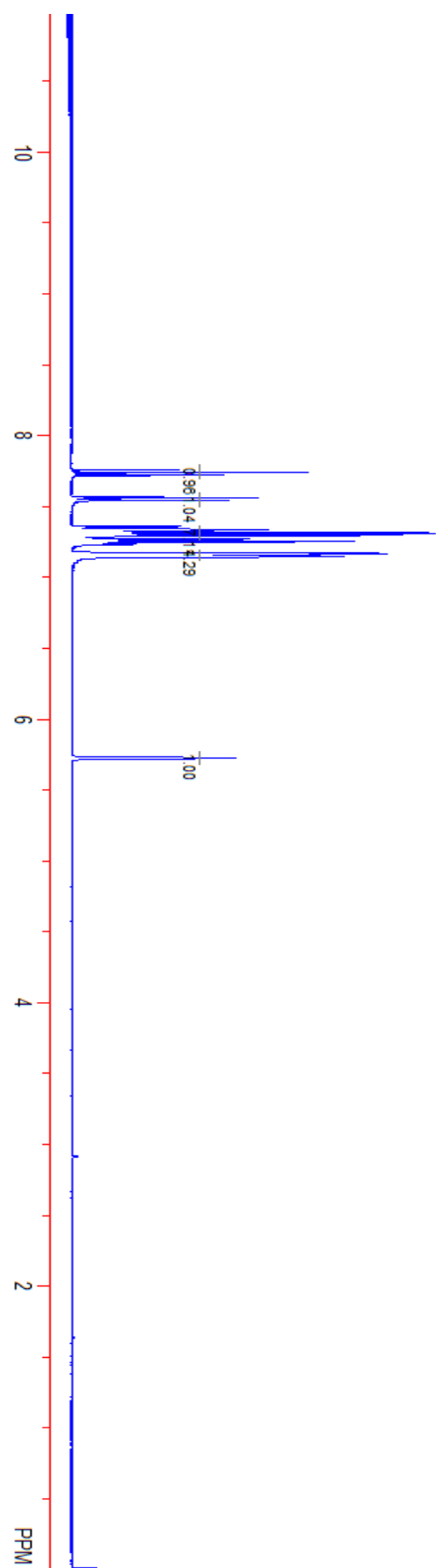
Xiaoxu Qi,[†] Chaohuang Chen,[†] Chuanqi Hou, Liang Fu, Pinhong Chen and

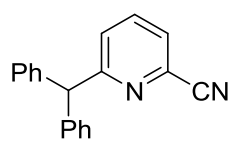
Guosheng Liu*

*State Key Laboratory of Organometallic Chemistry, Center for Excellence in Molecular Synthesis, Shanghai
Institute of Organic Chemistry, University of Chinese Academy of Sciences, Chinese Academy of Sciences, 345
Lingling Road, Shanghai 200032, China*

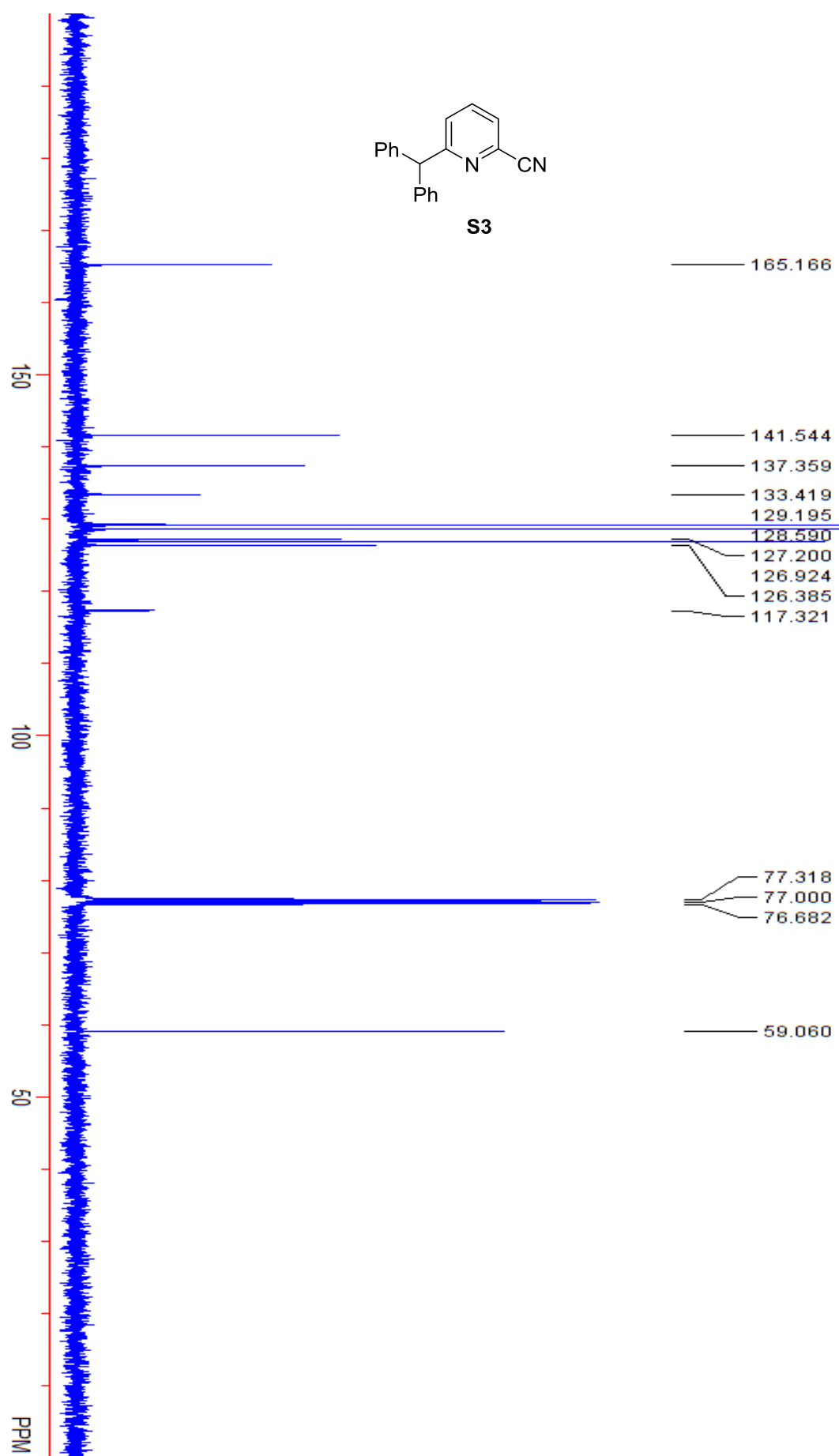
Email: gliu@mail.sioc.ac.cn

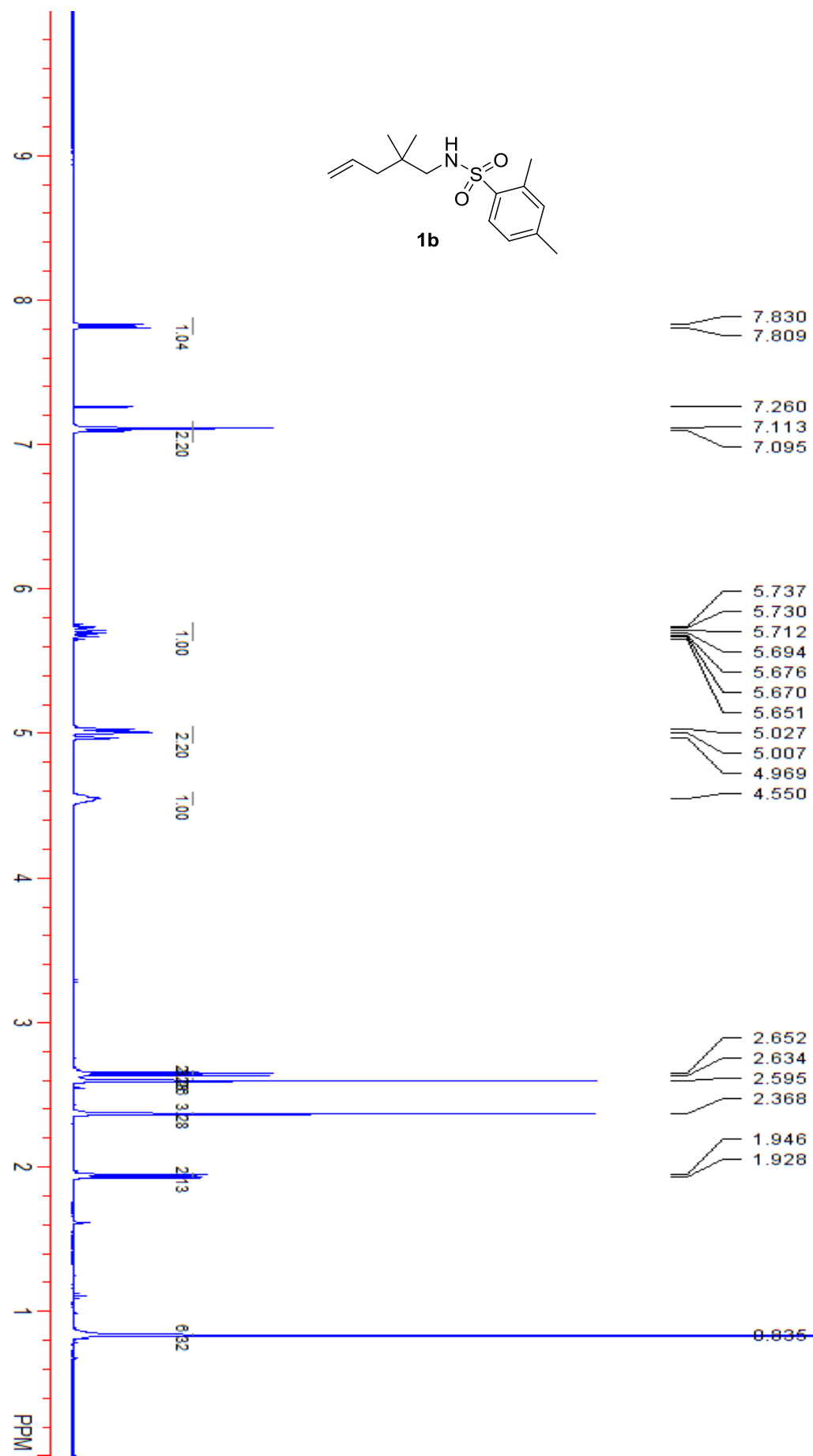
NMR and HPLC Spectra of New Compounds

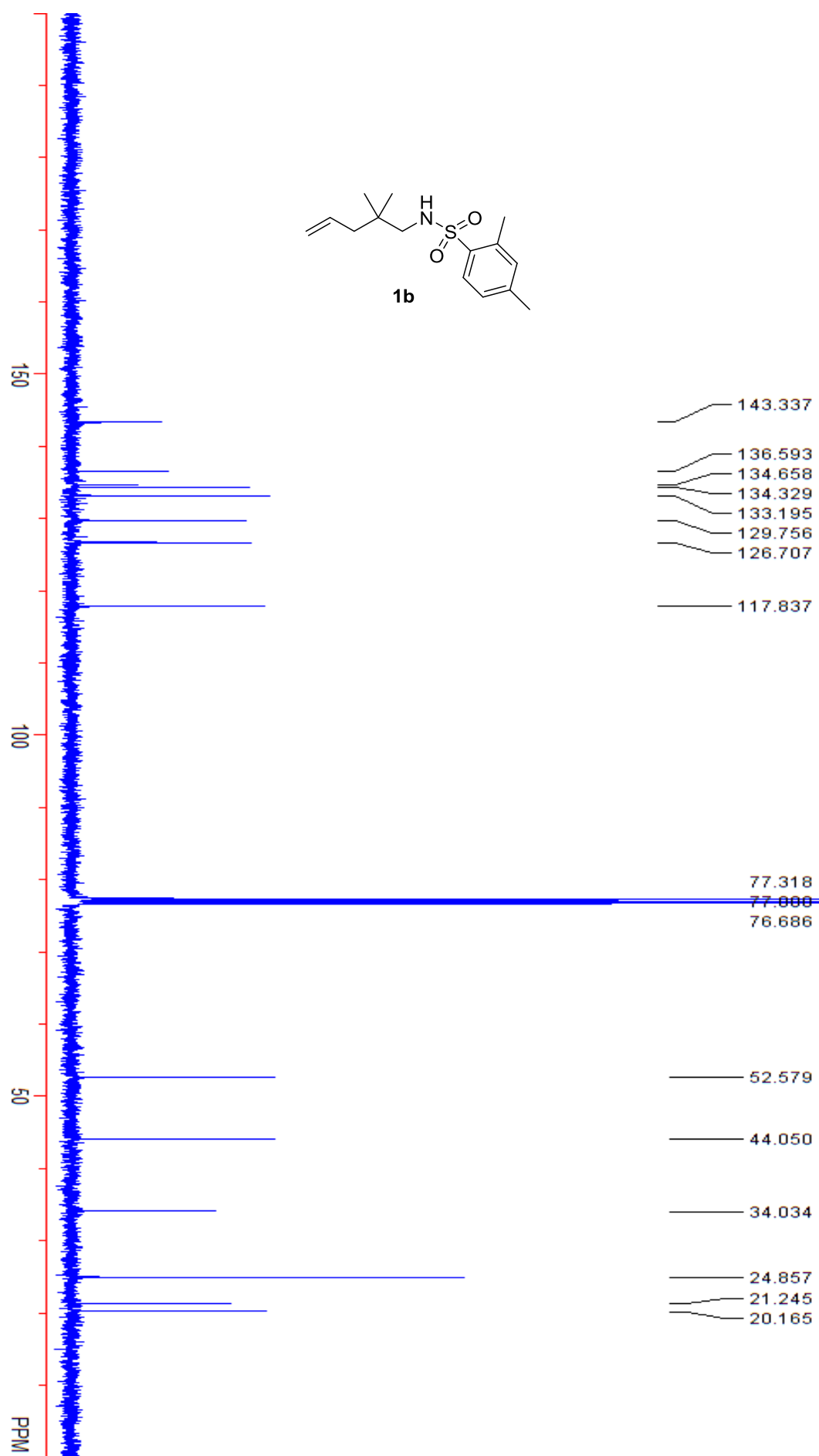
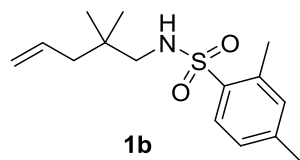


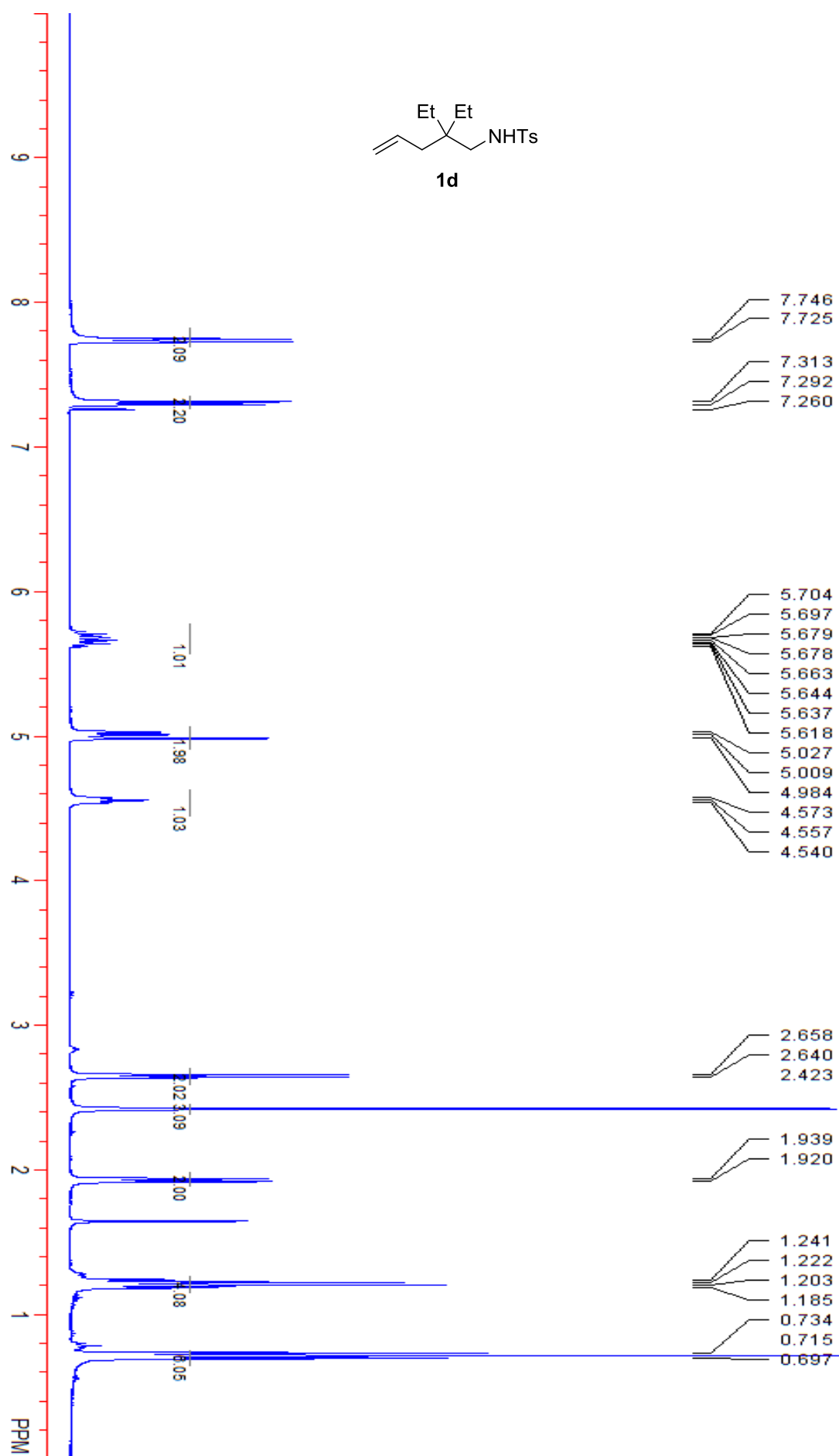
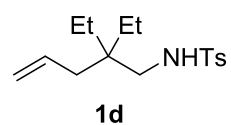


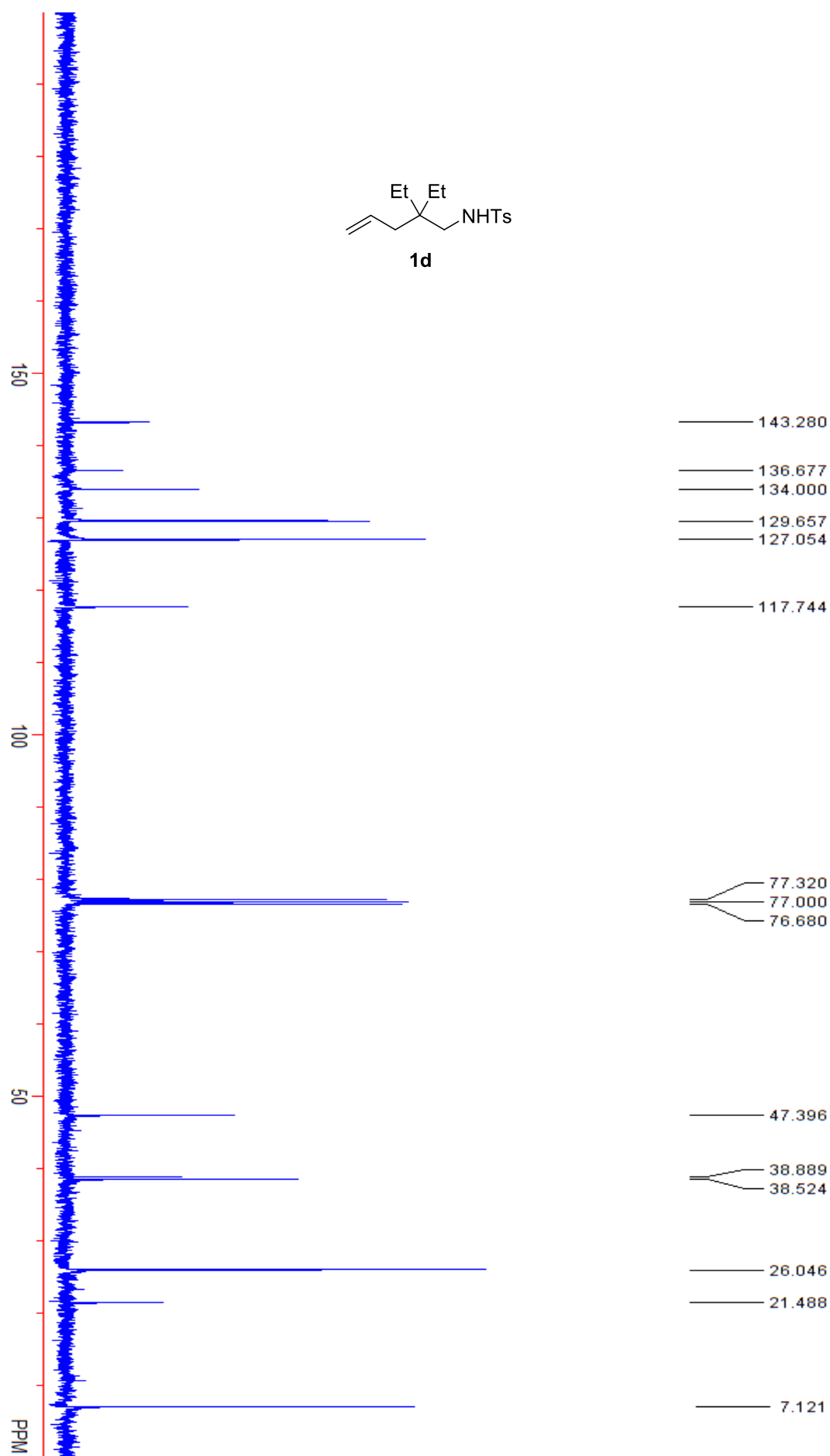
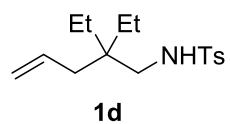
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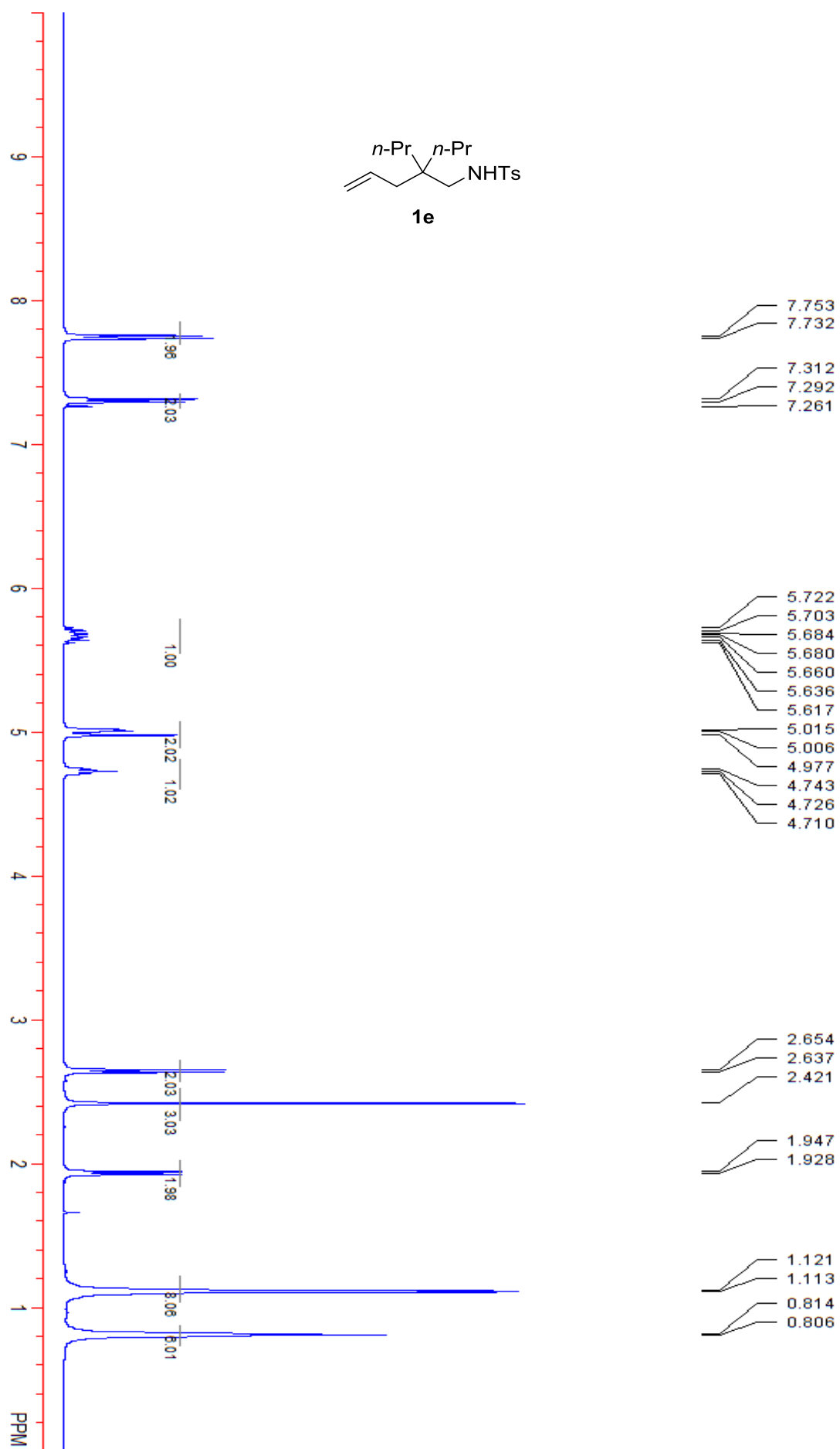
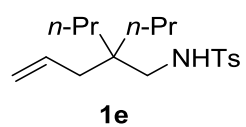


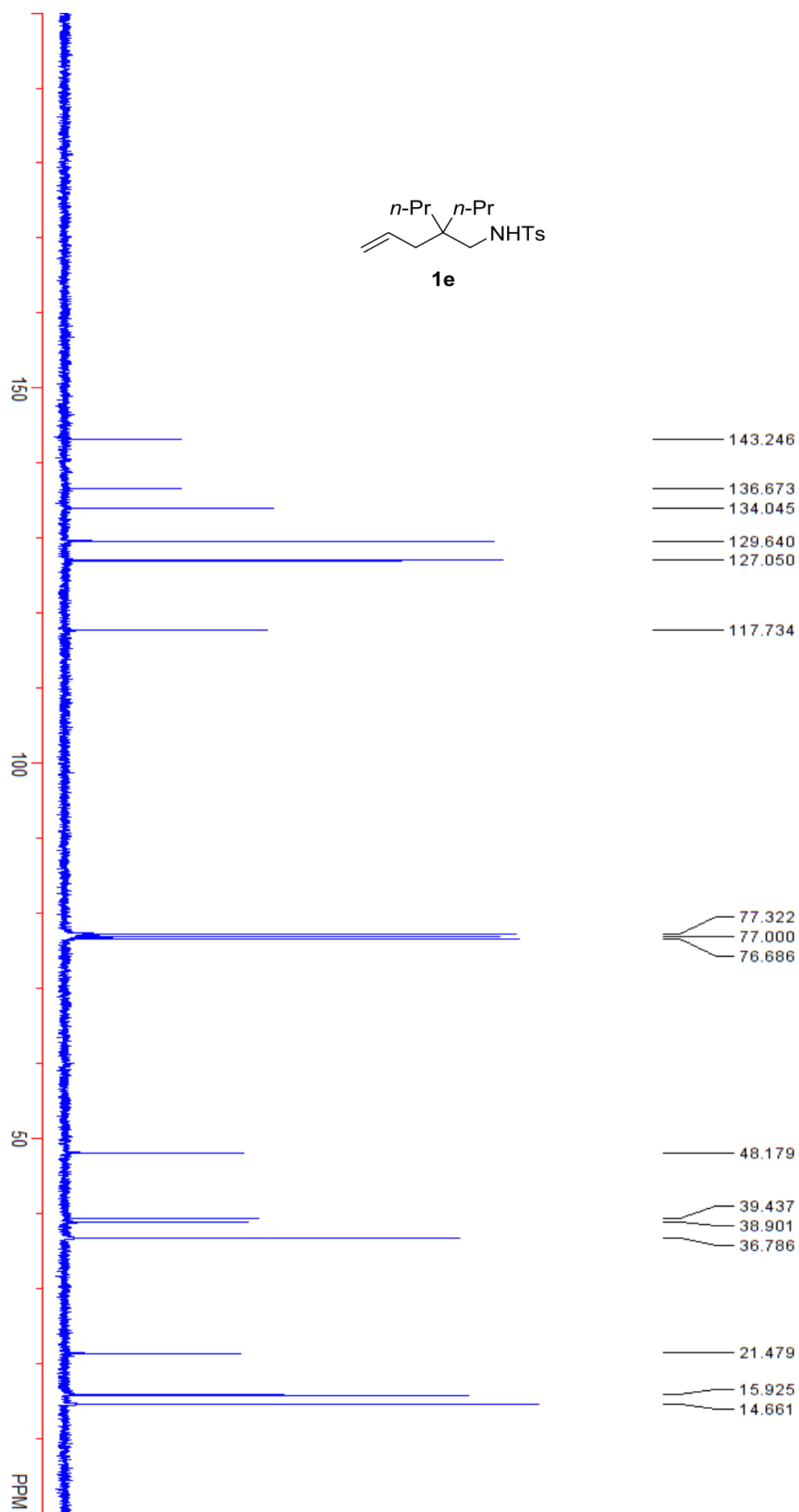
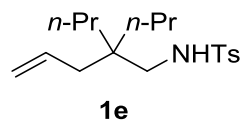


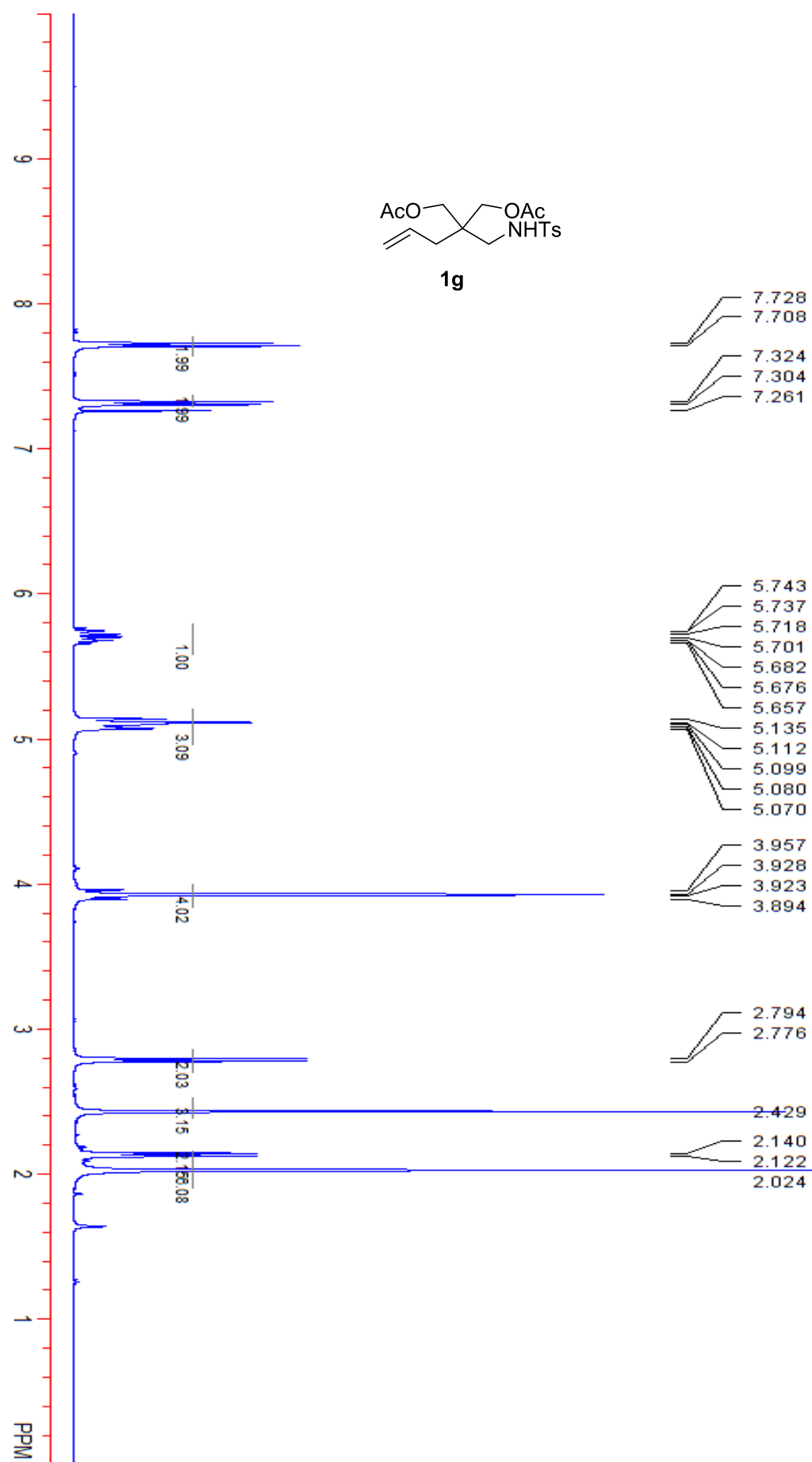


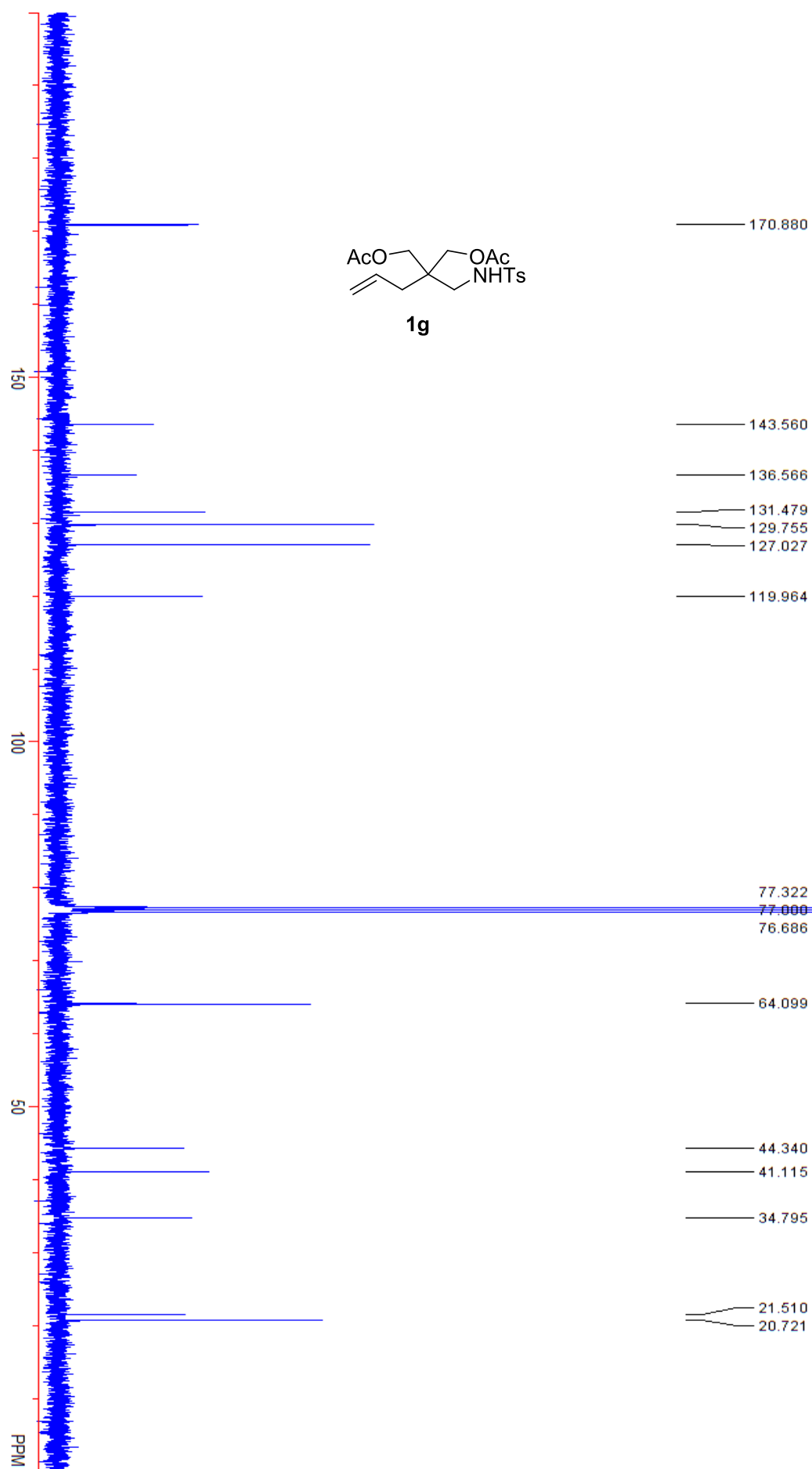


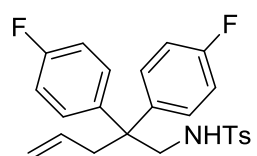




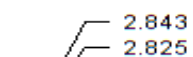
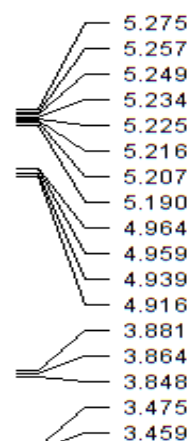
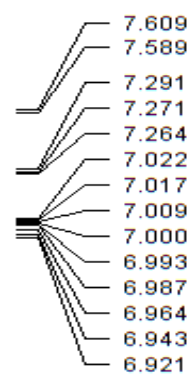
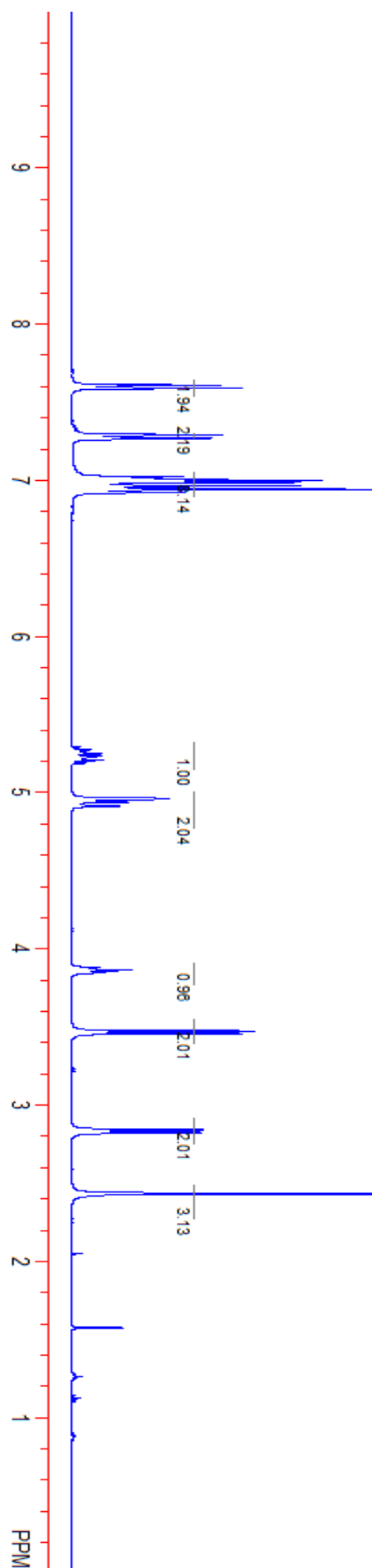


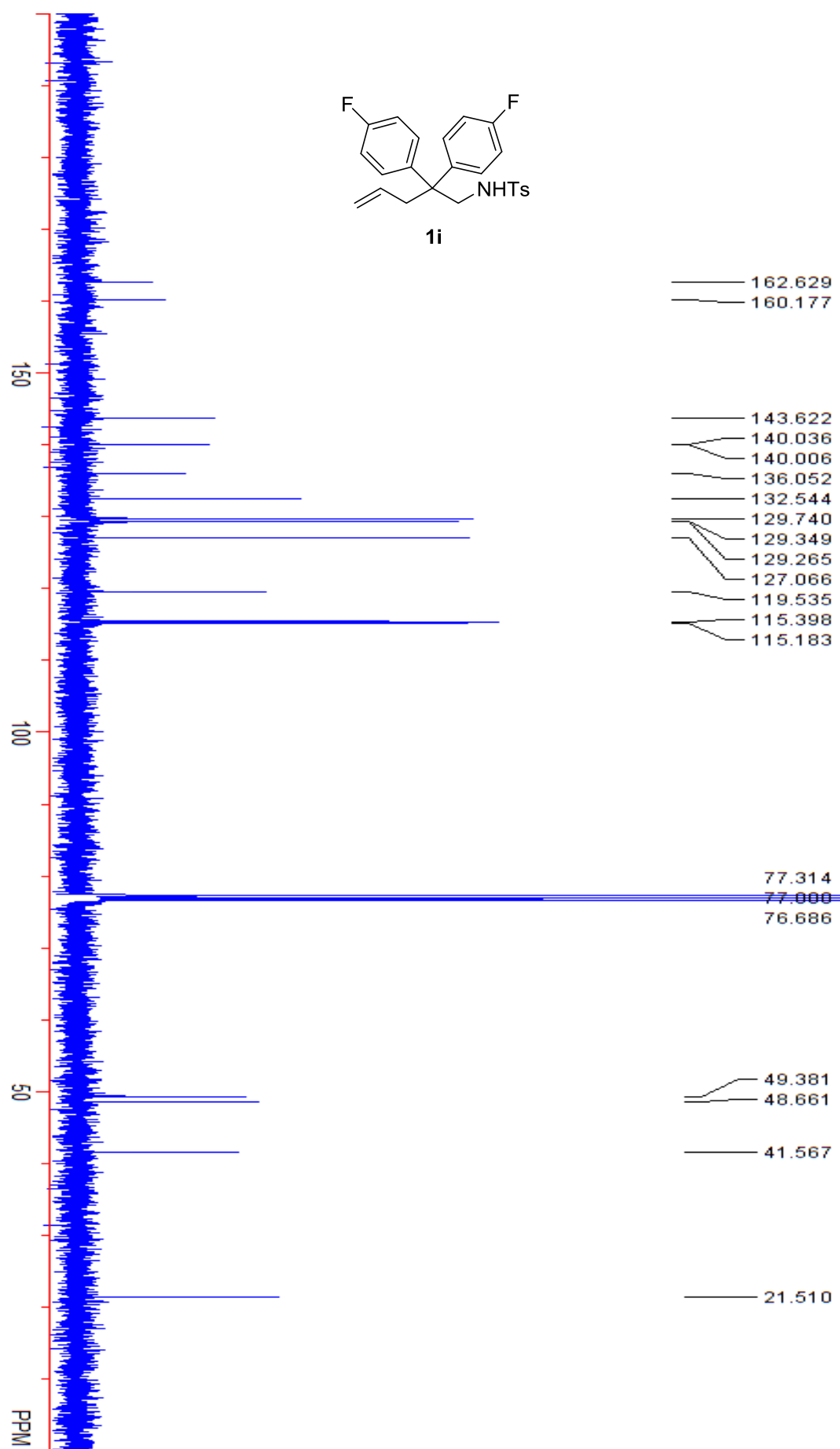


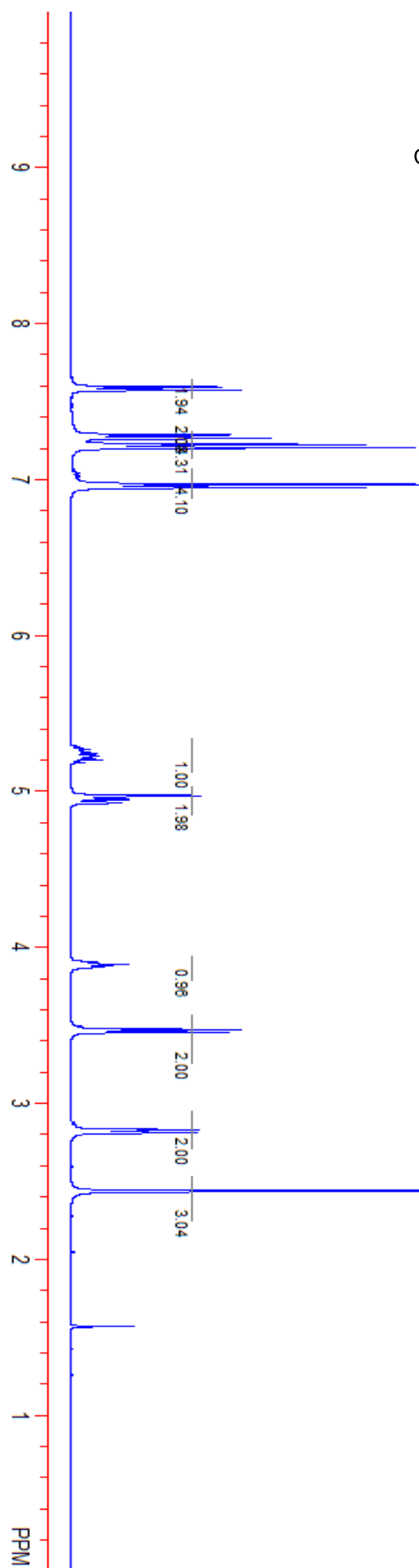
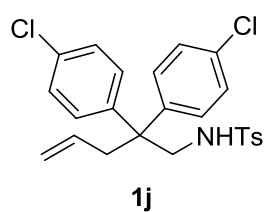




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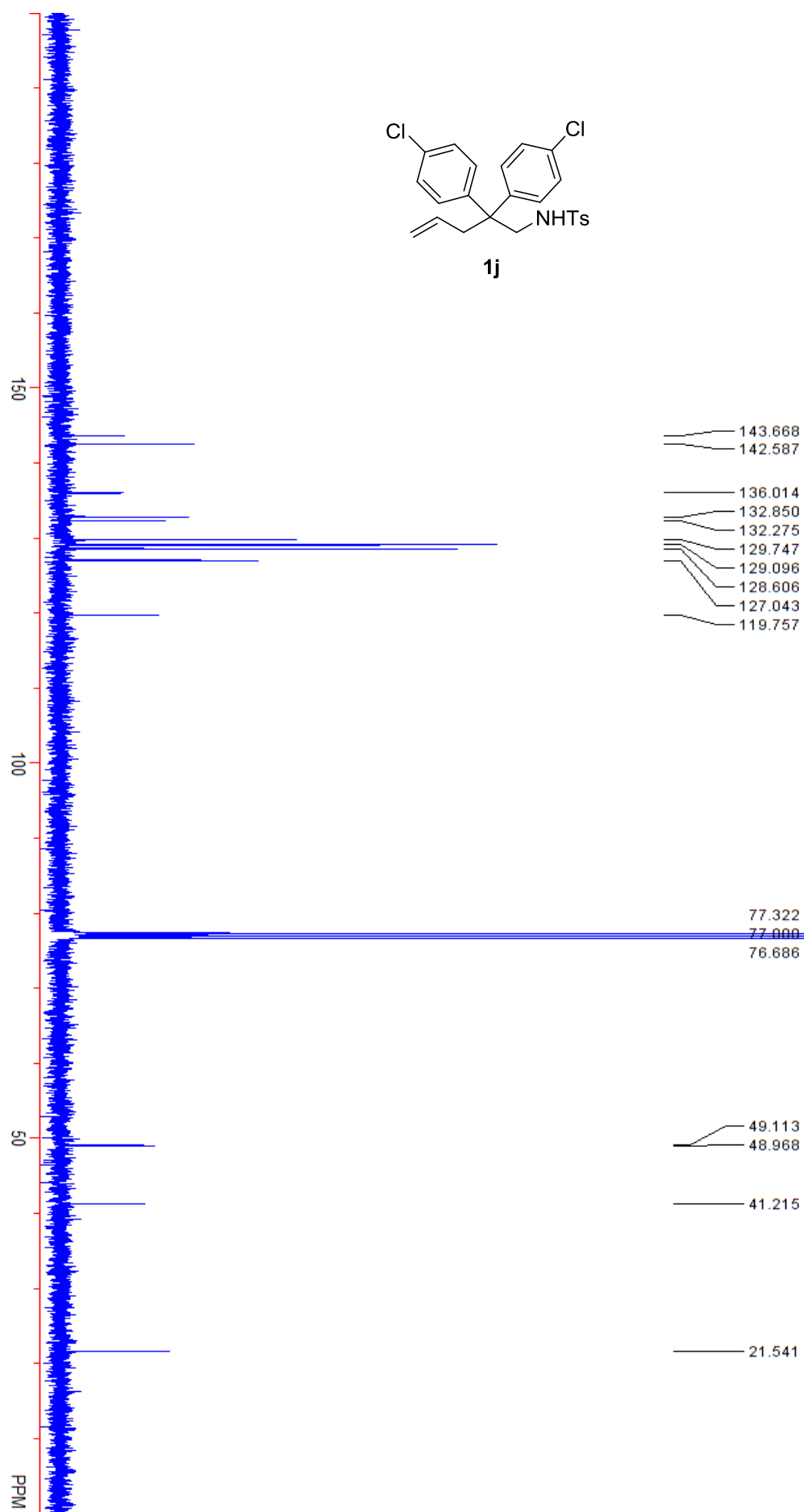
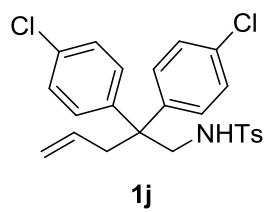


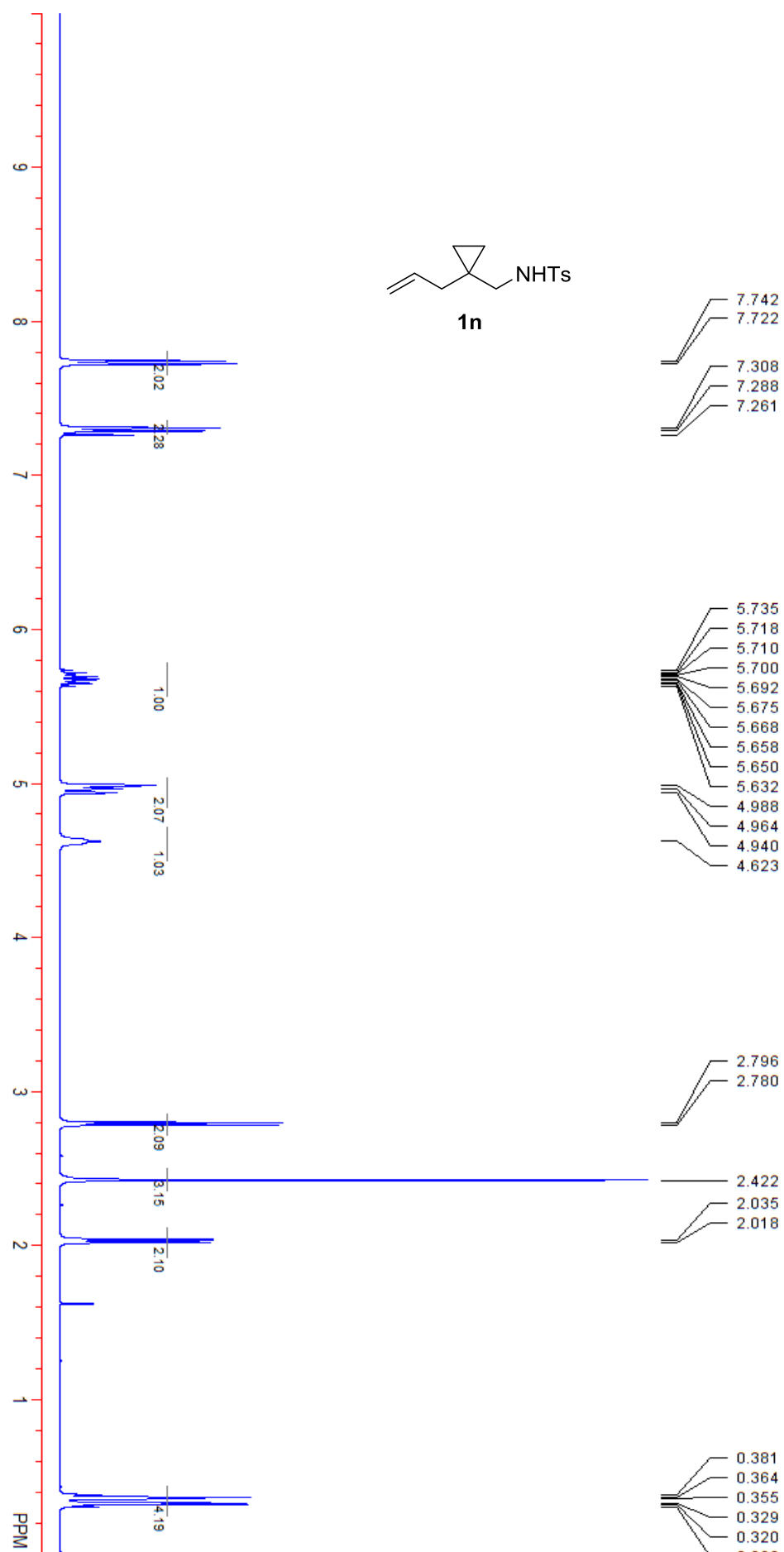
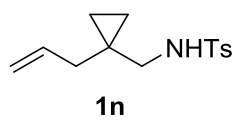


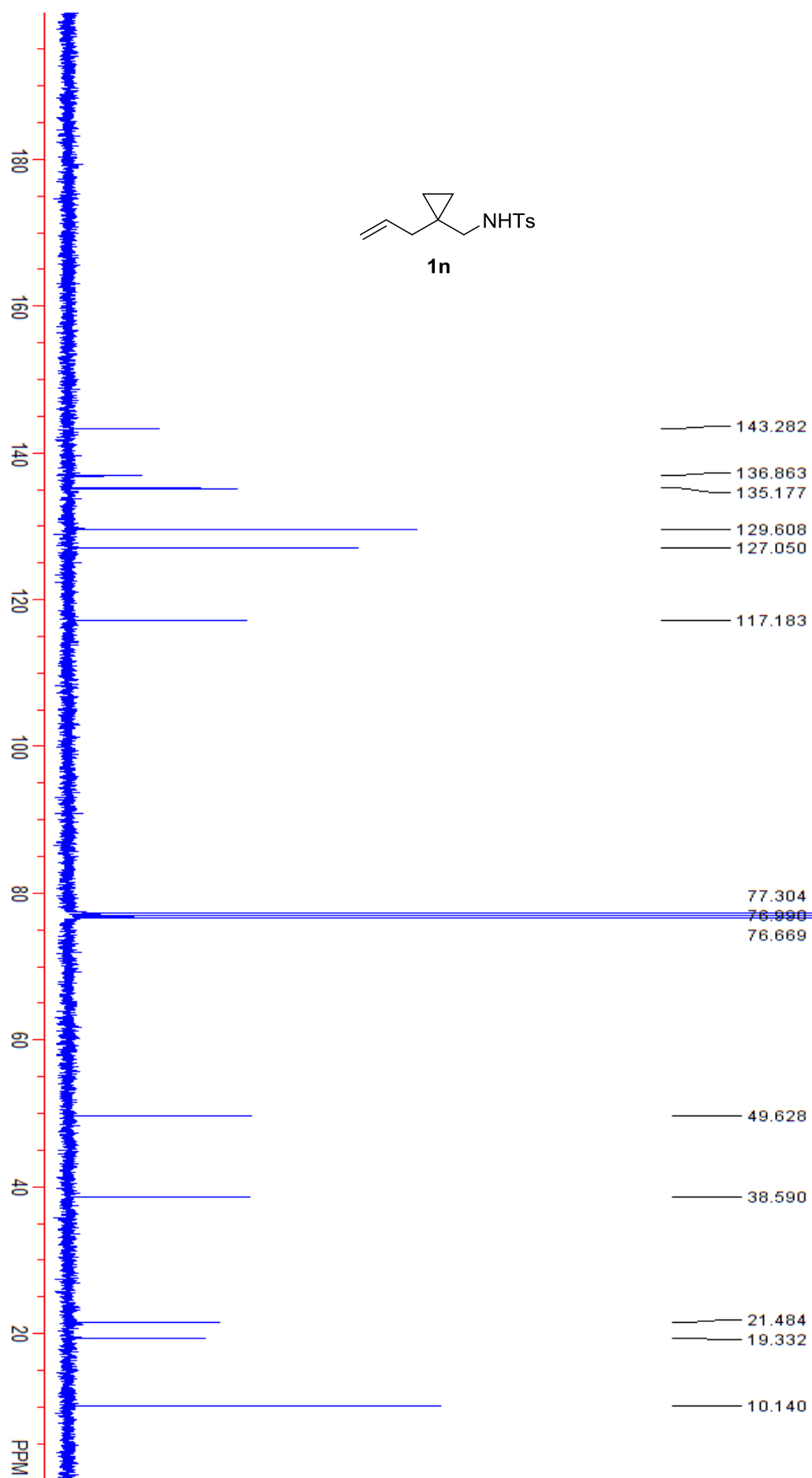
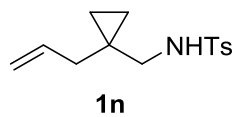
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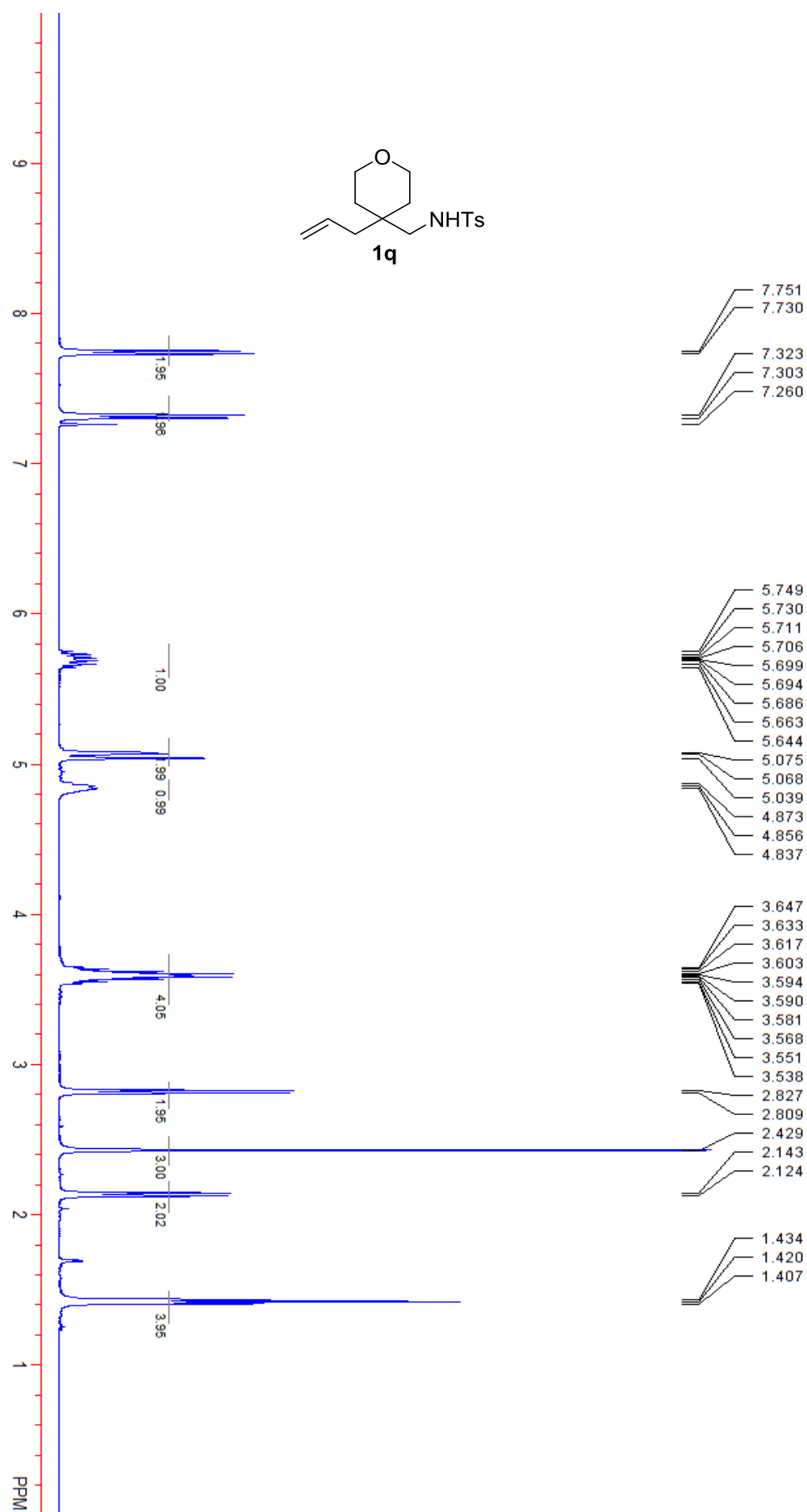
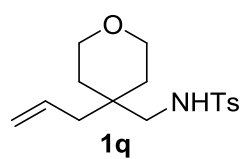
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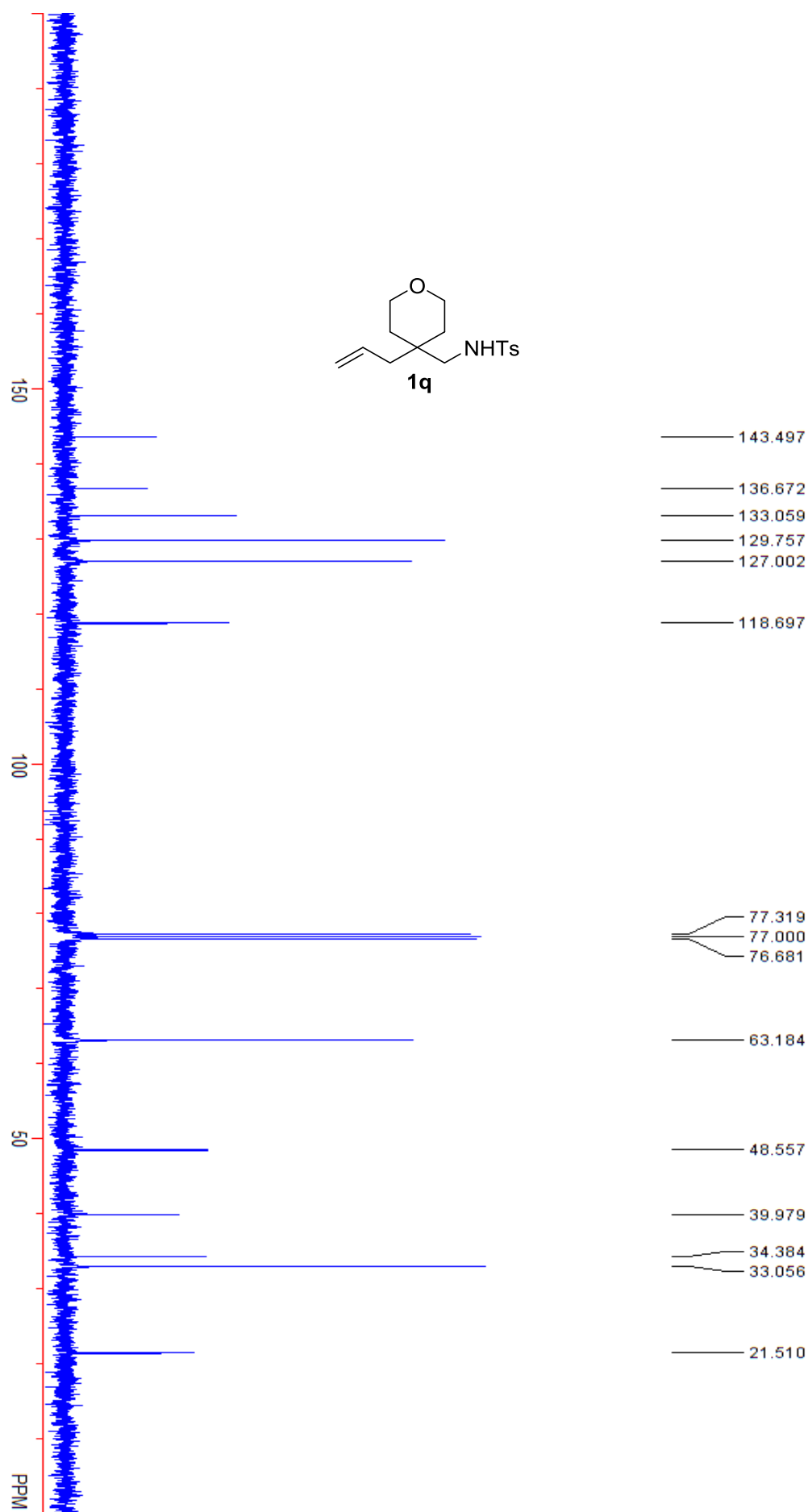
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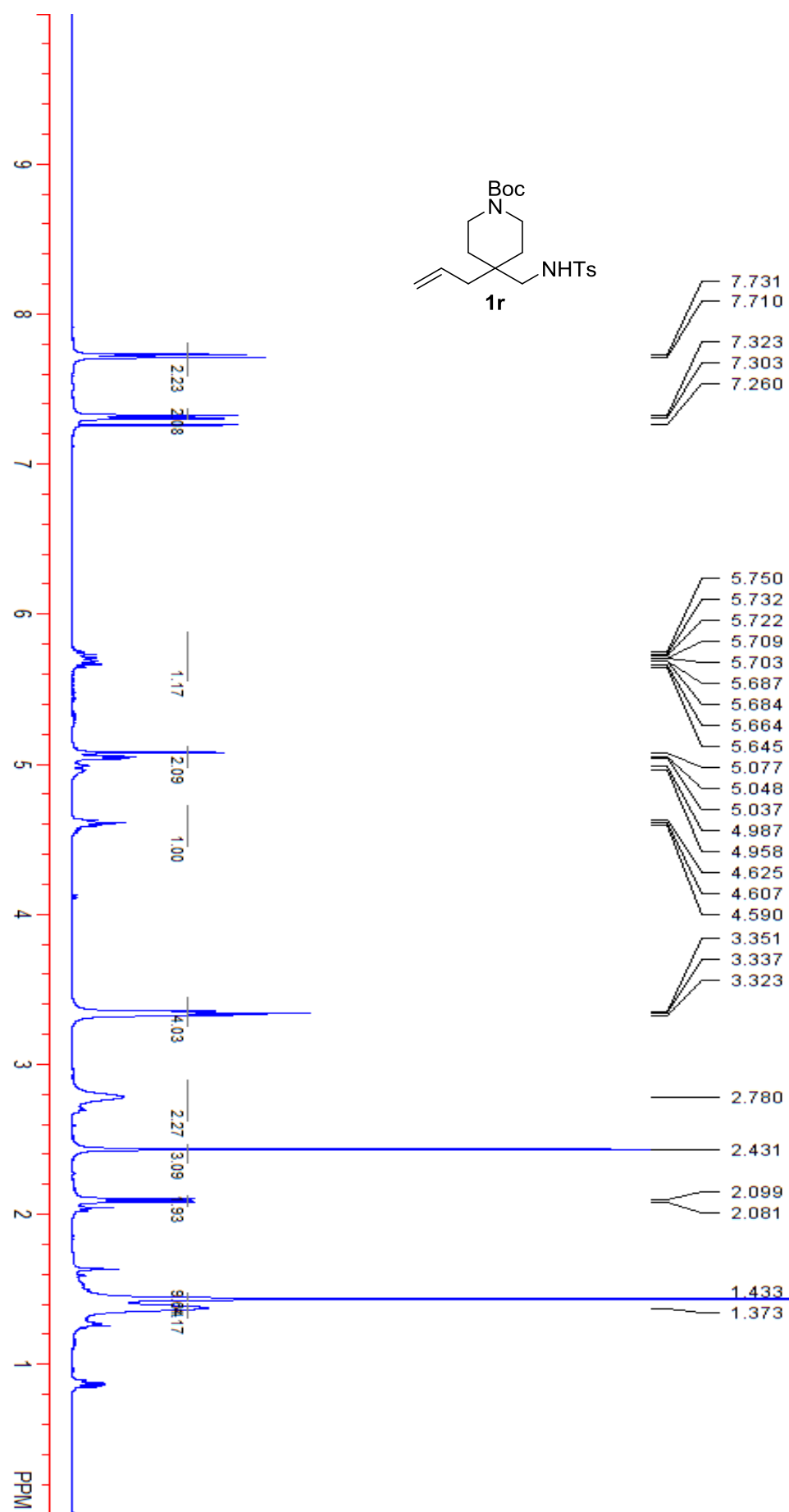


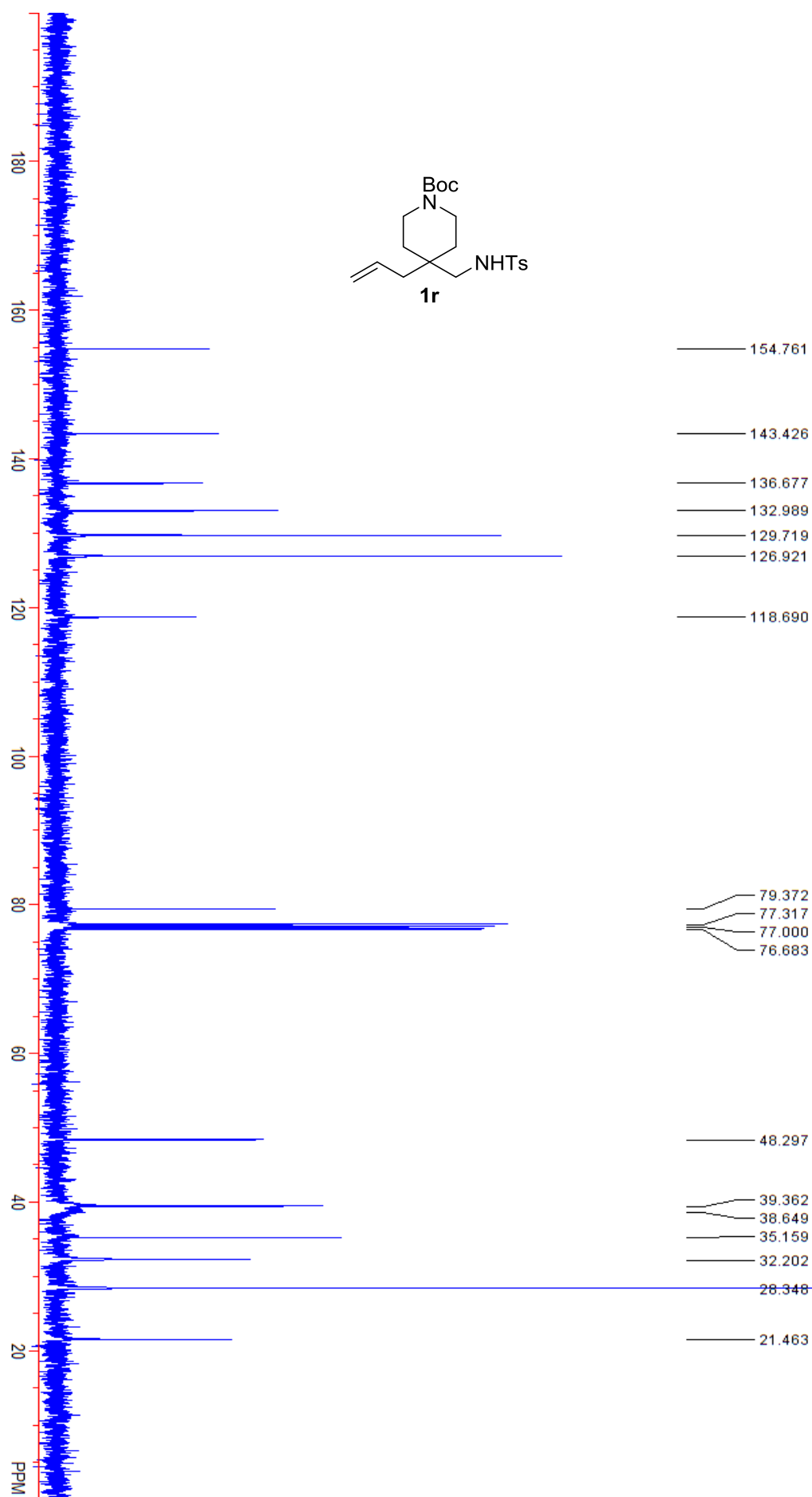
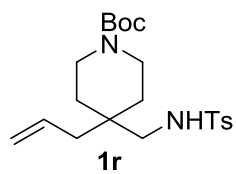


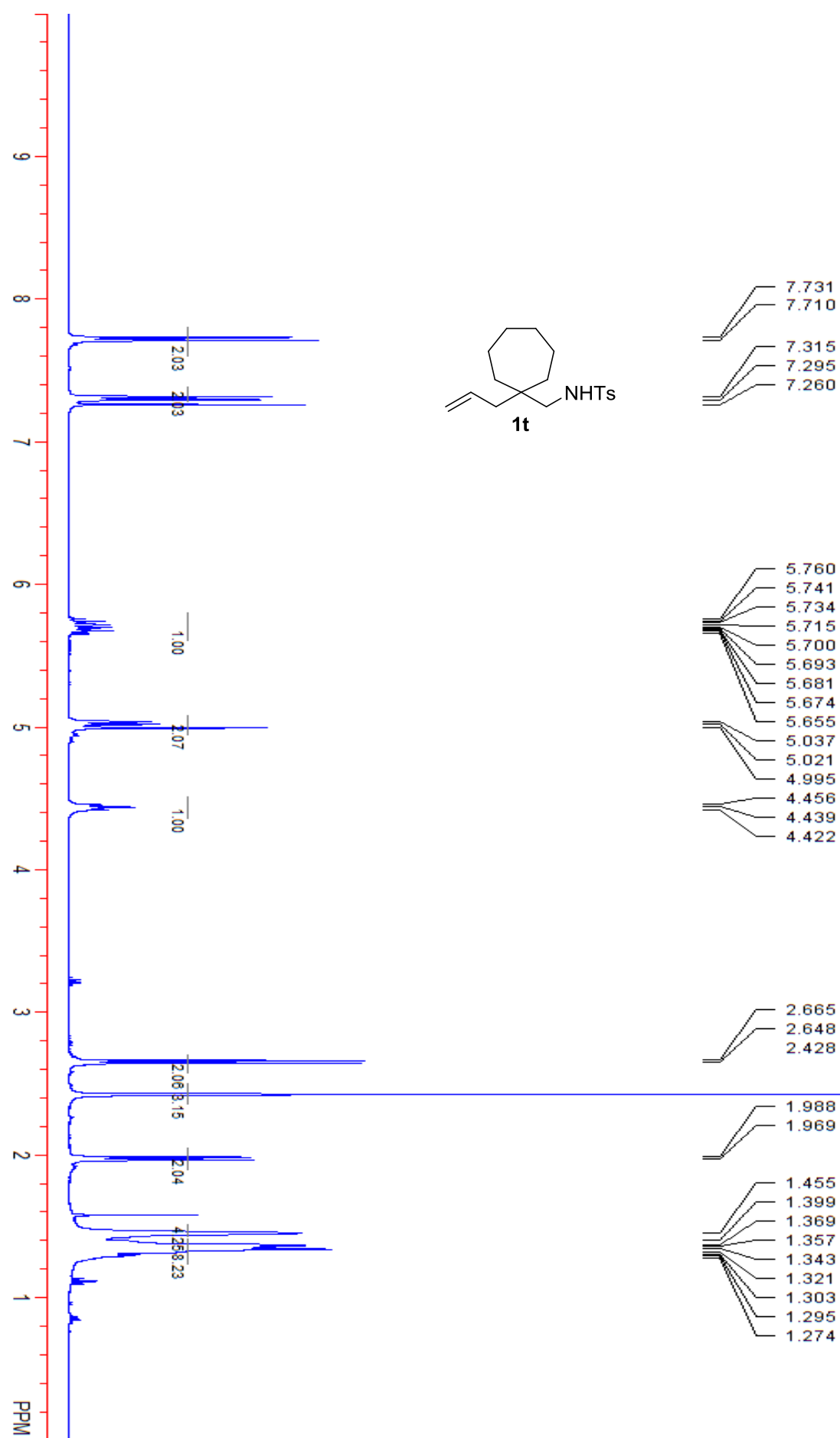


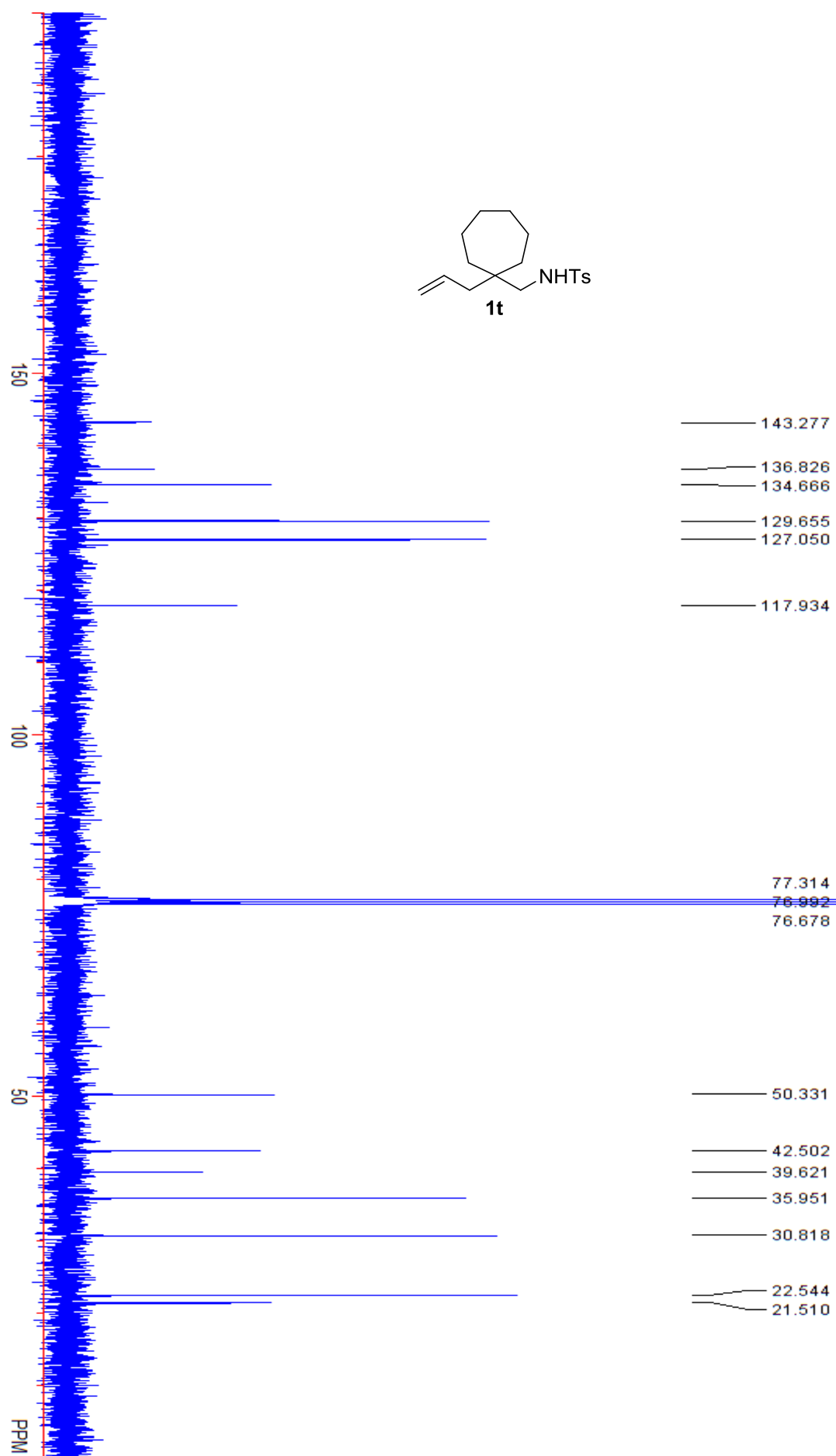
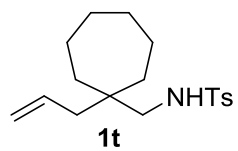


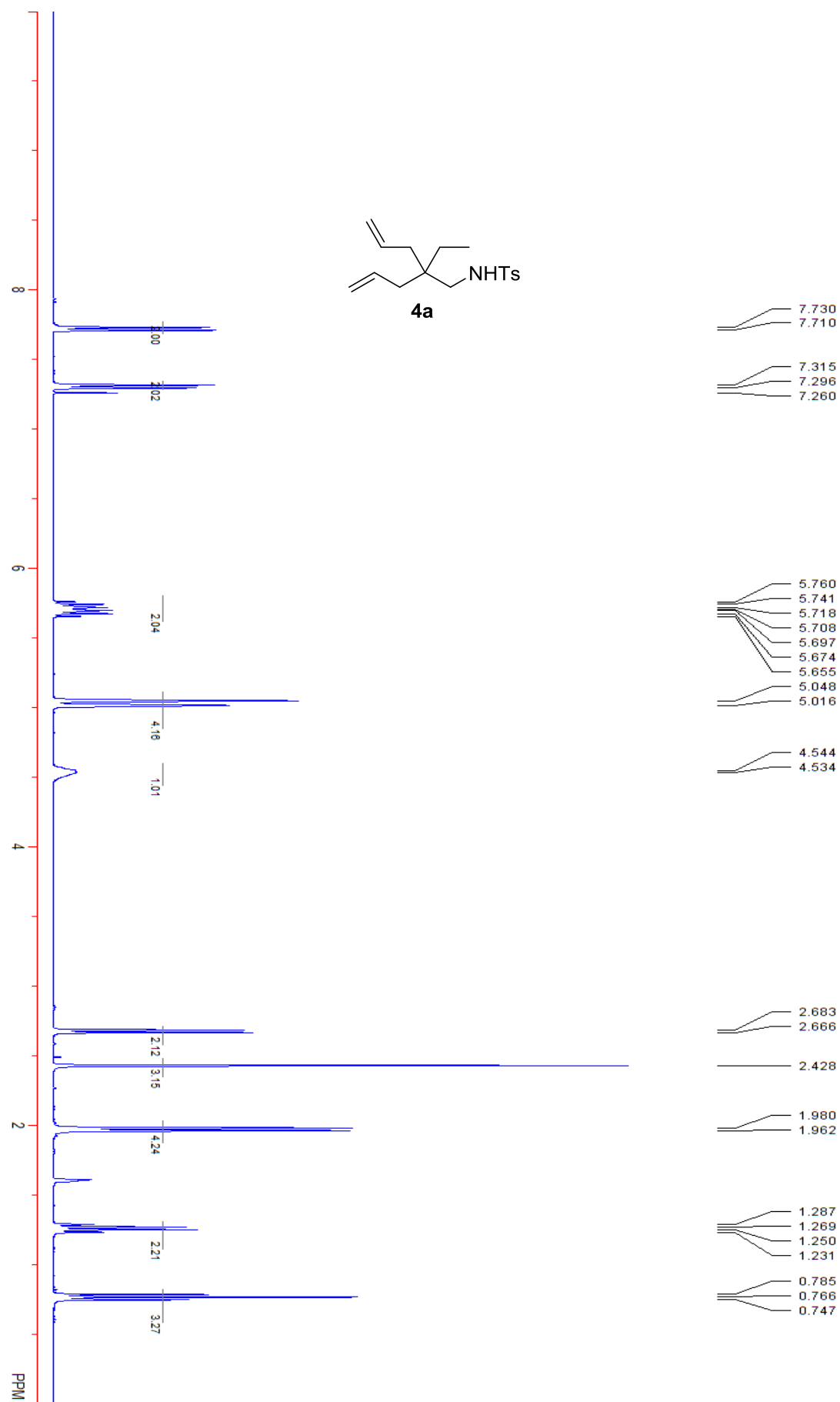


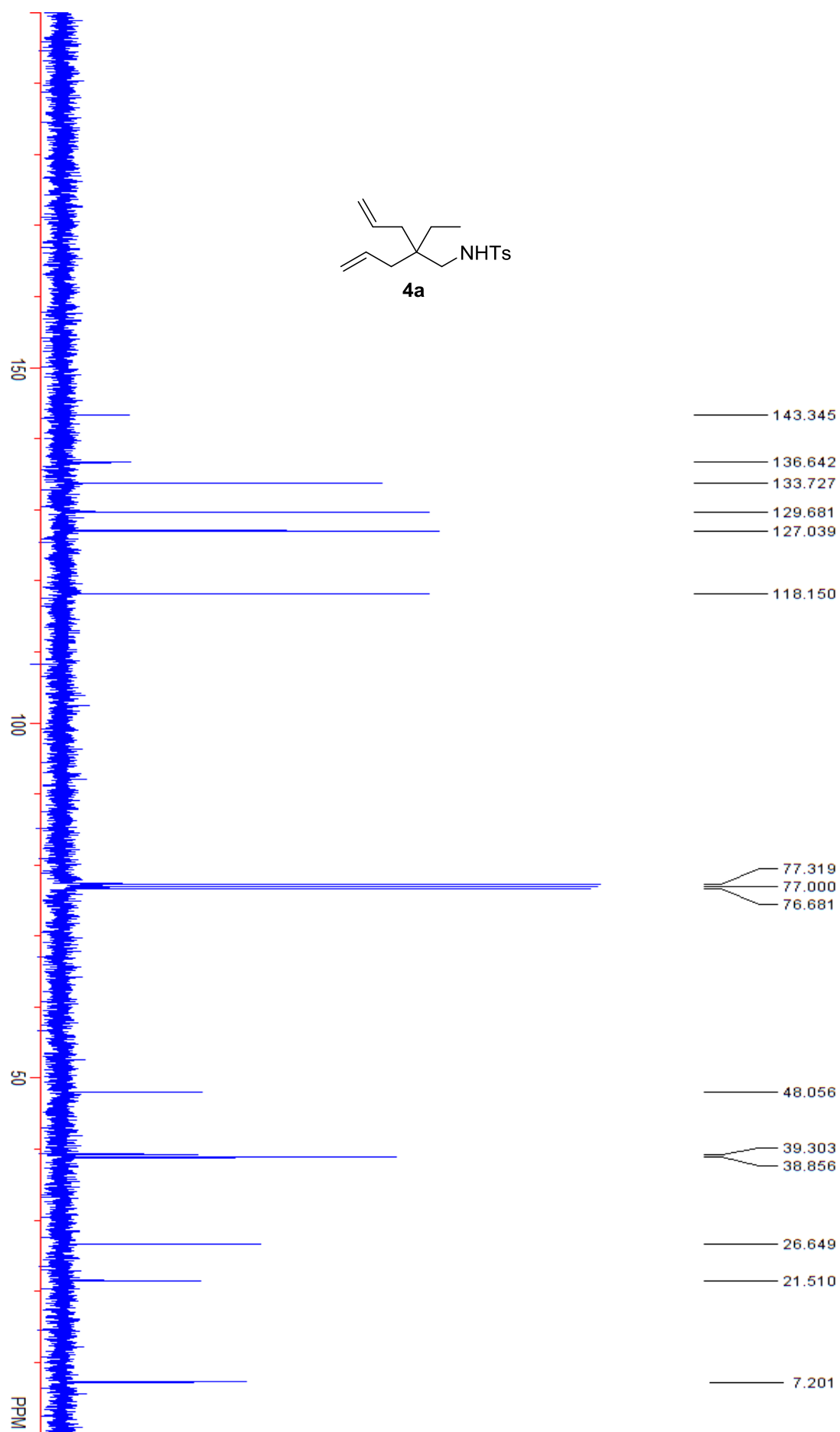
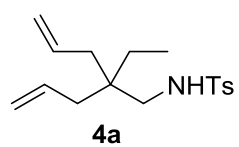


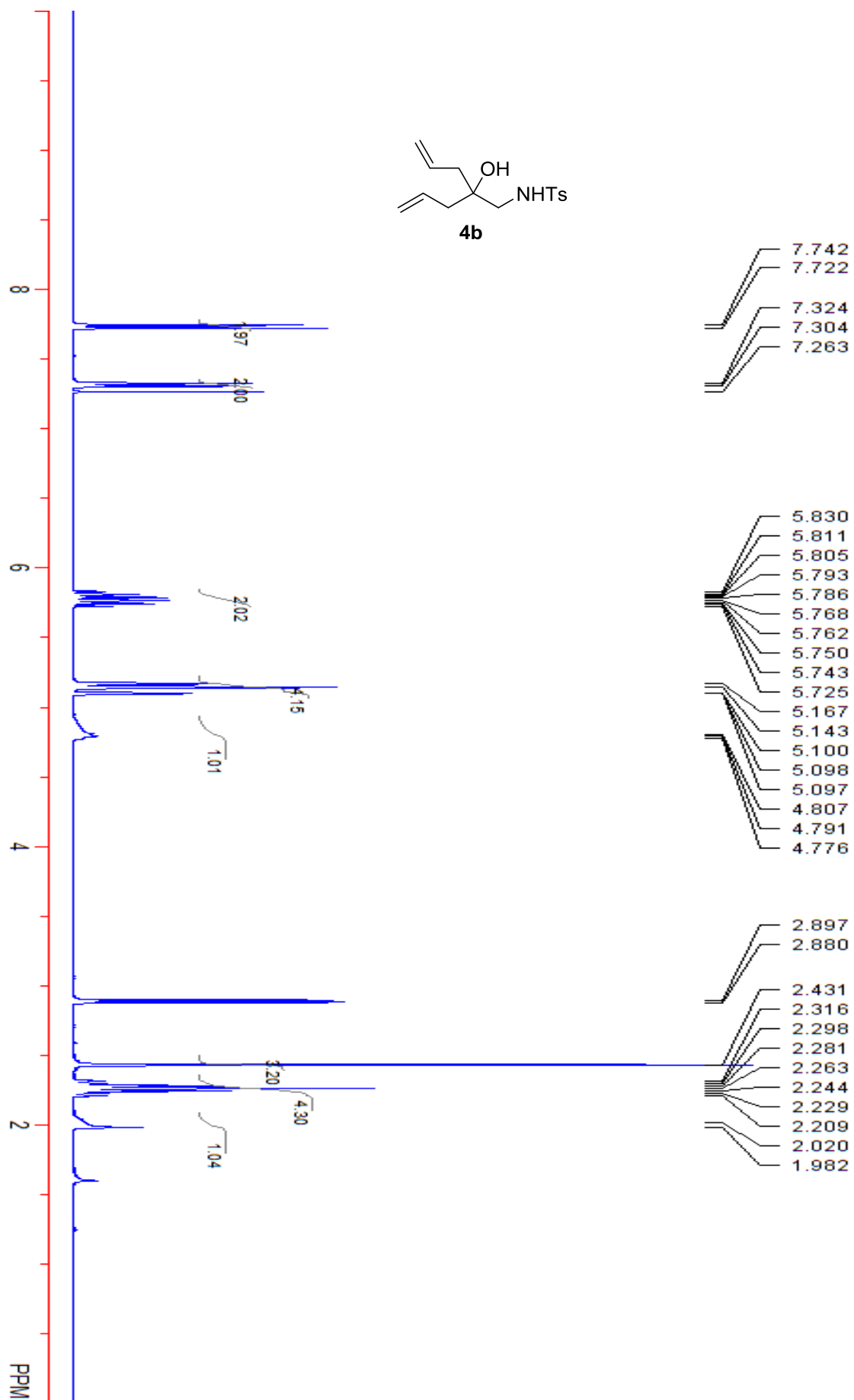
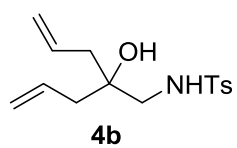


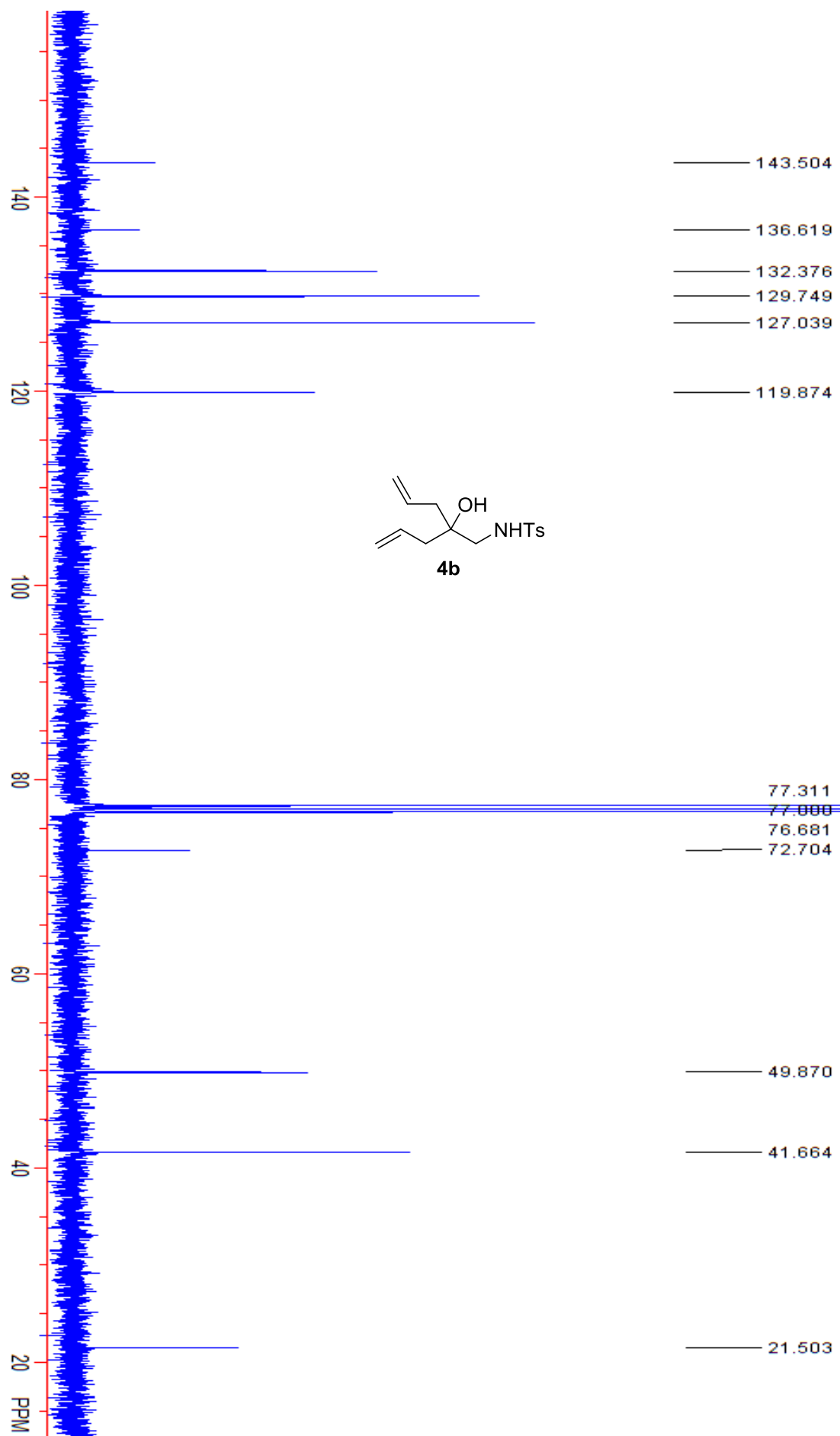


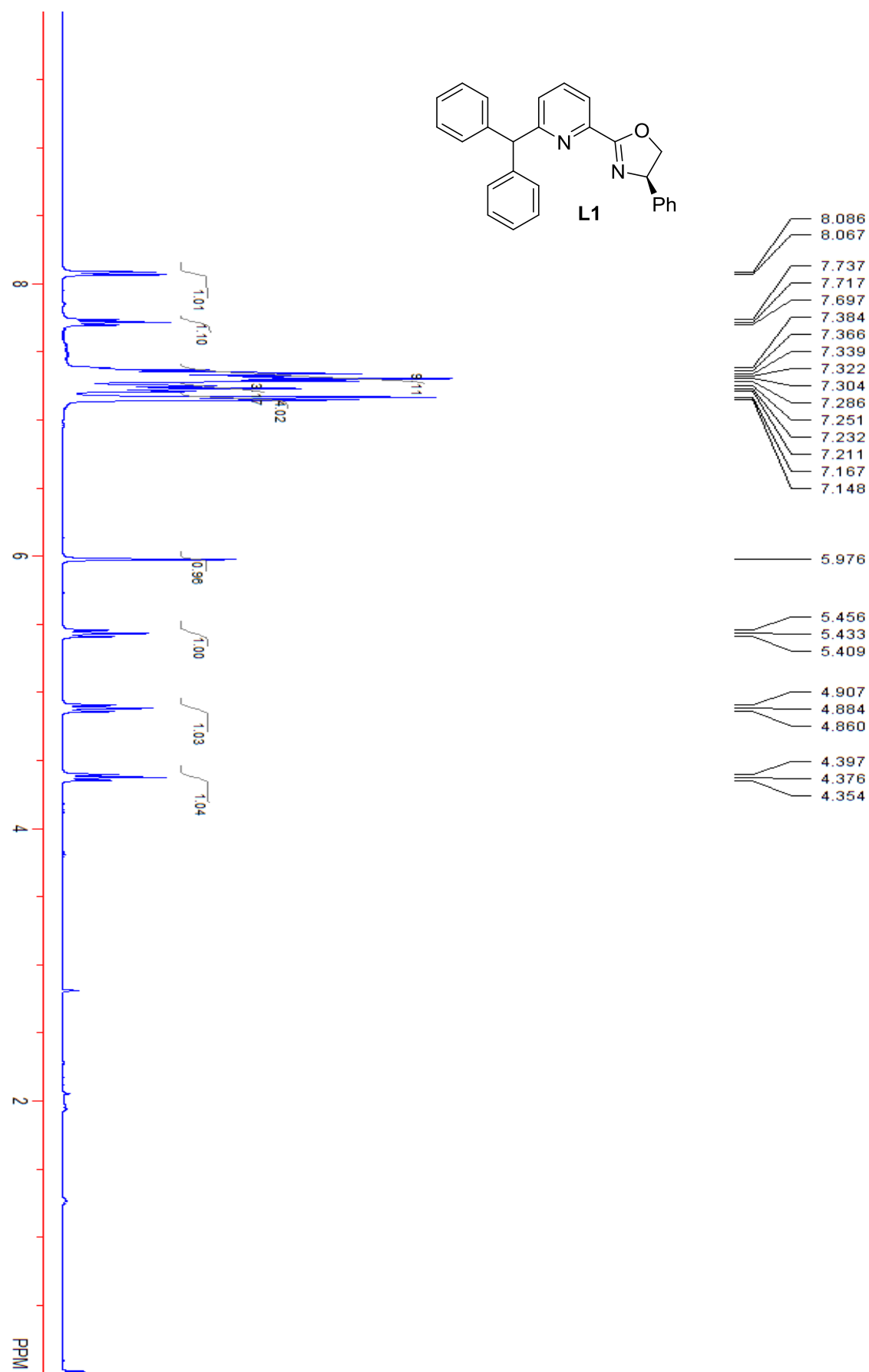


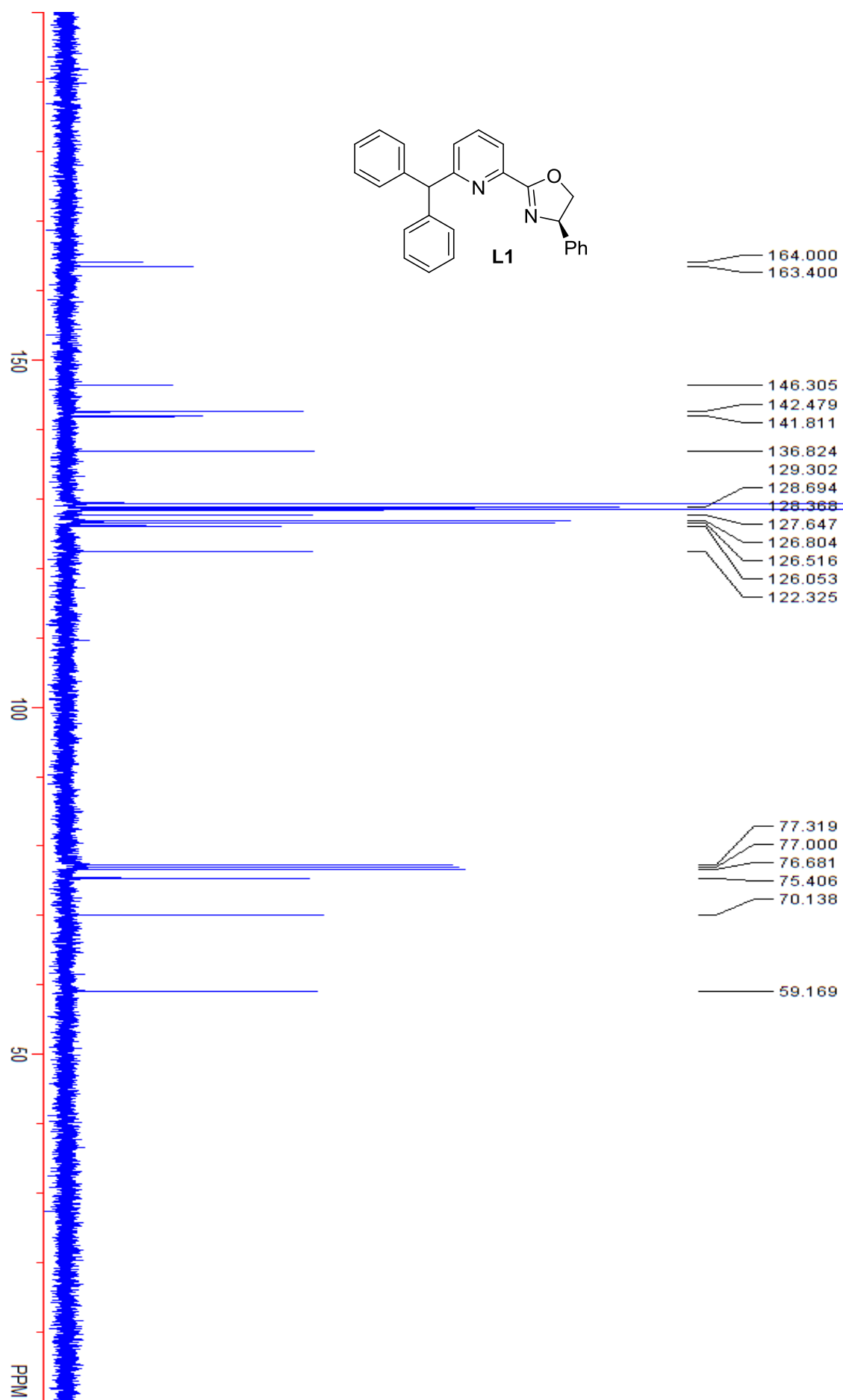


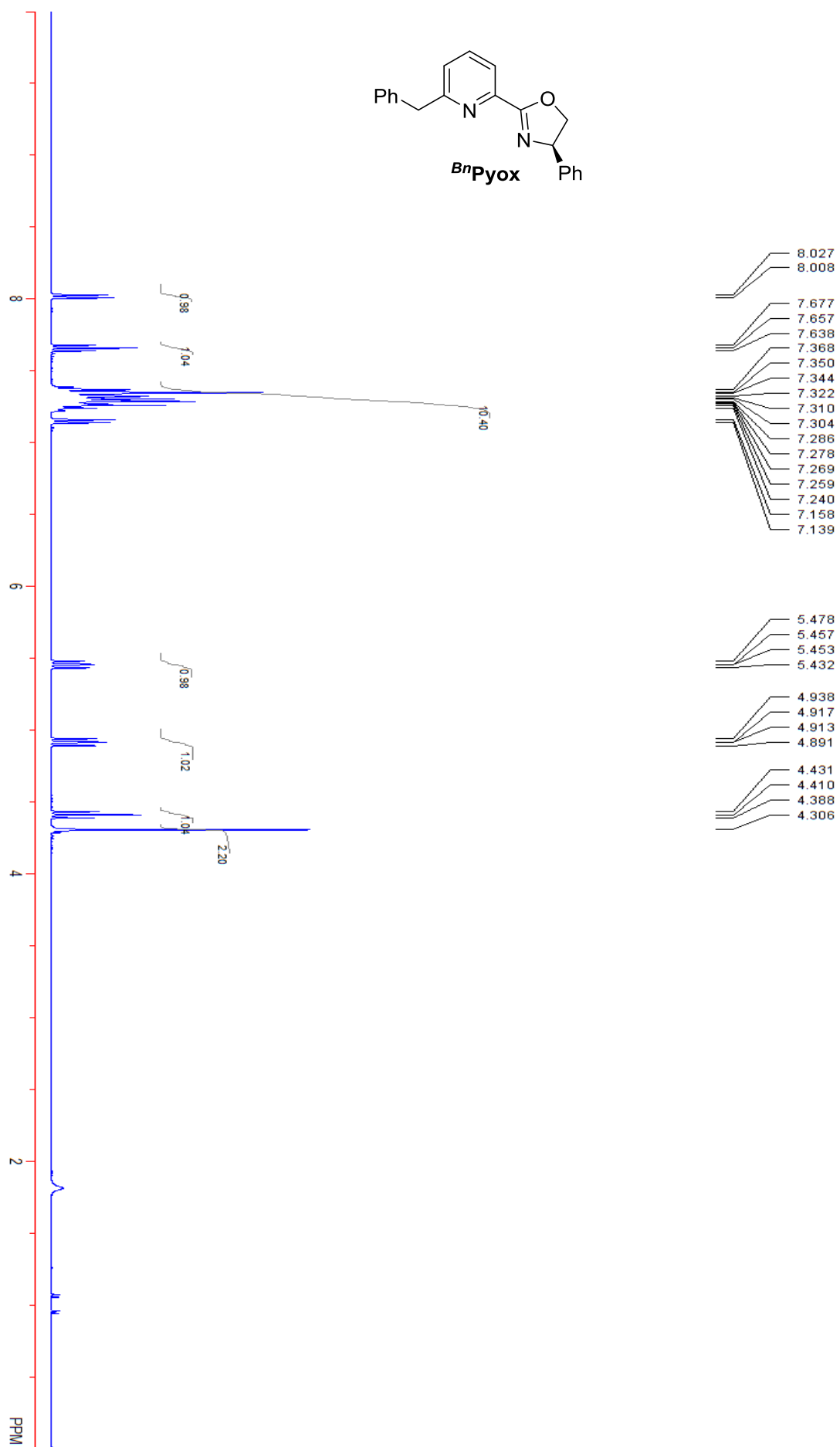
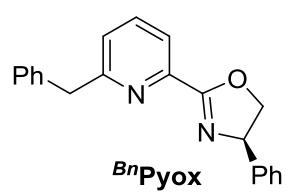


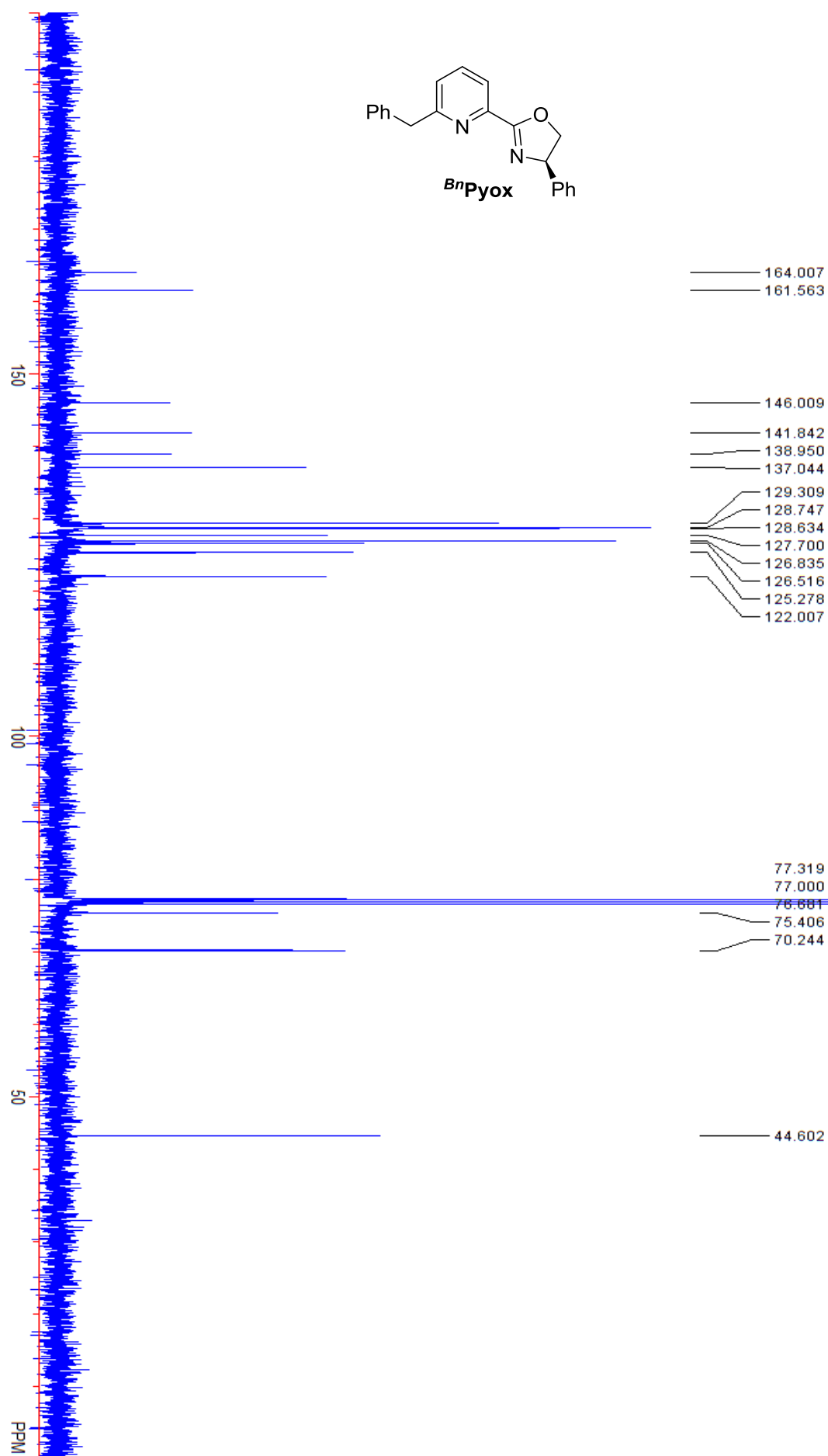
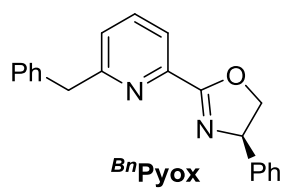


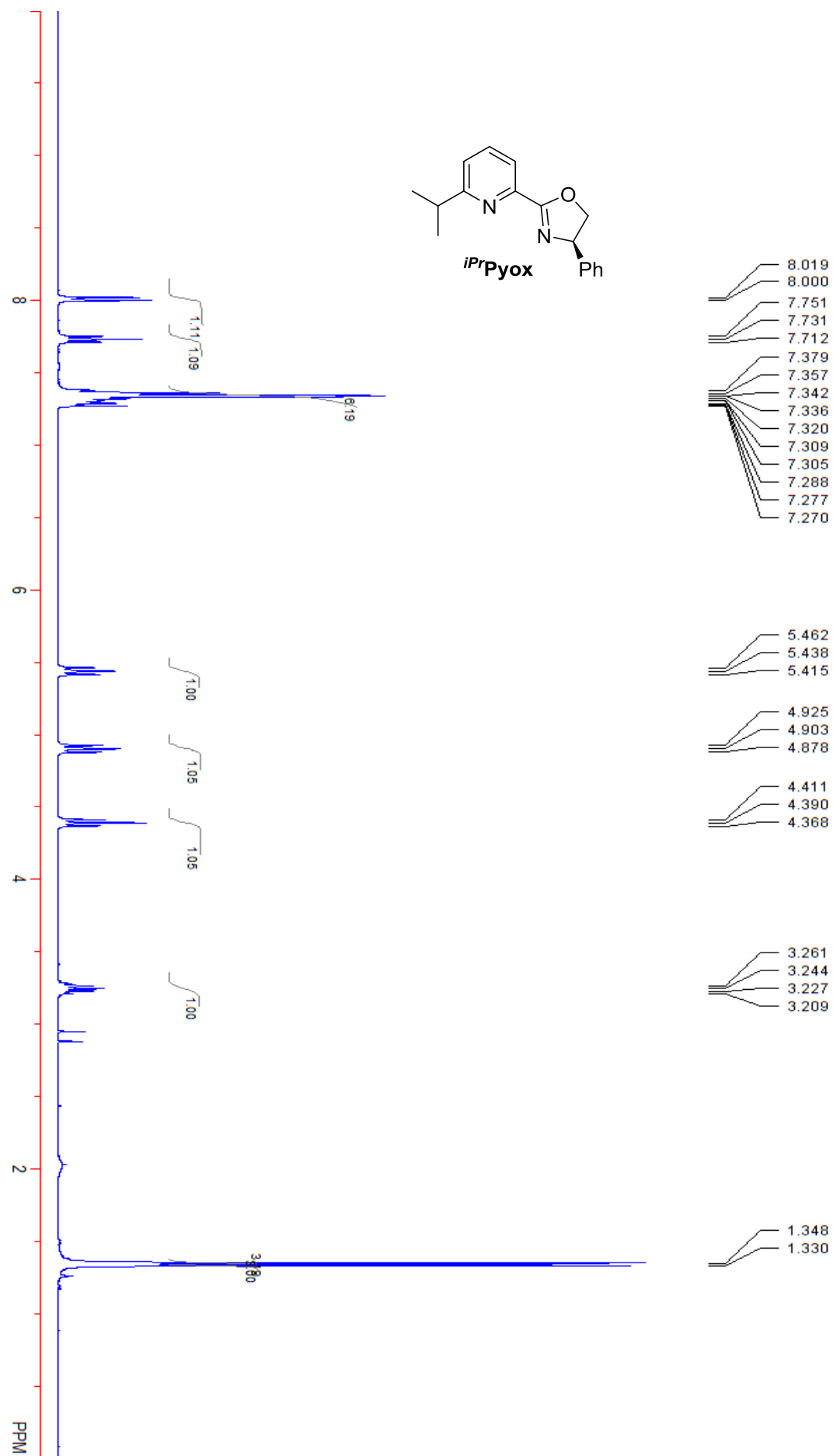


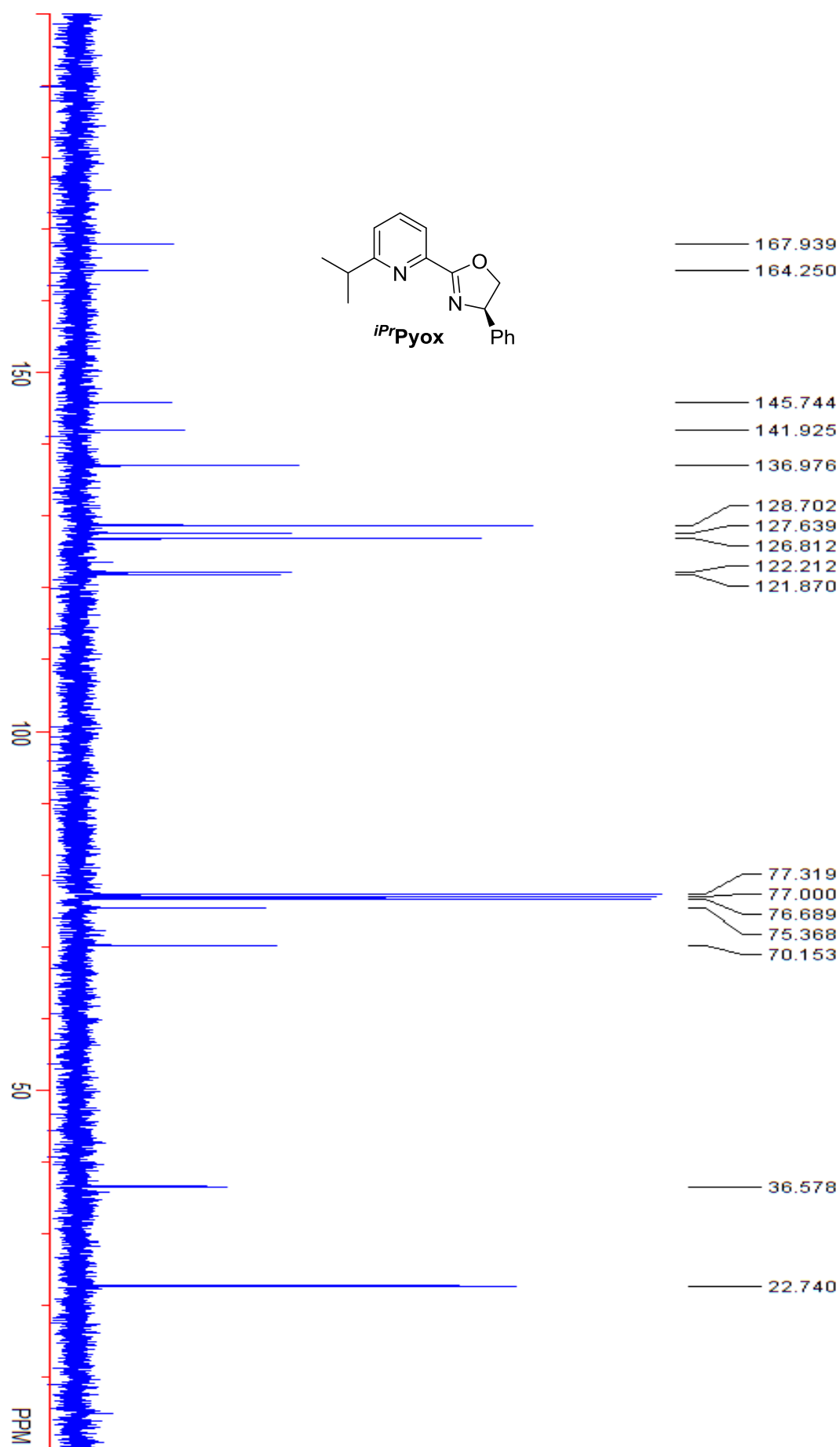












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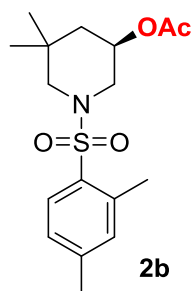
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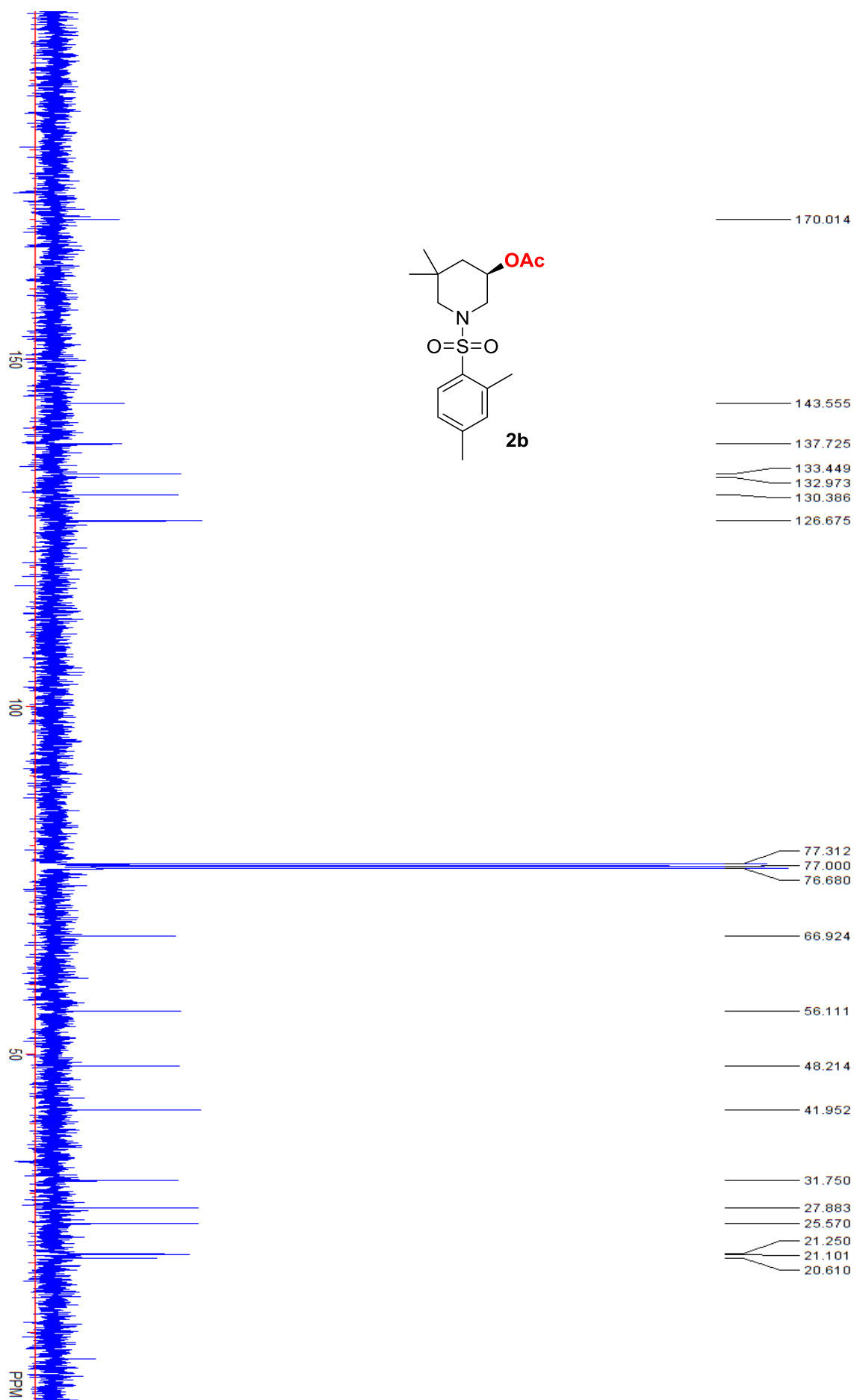
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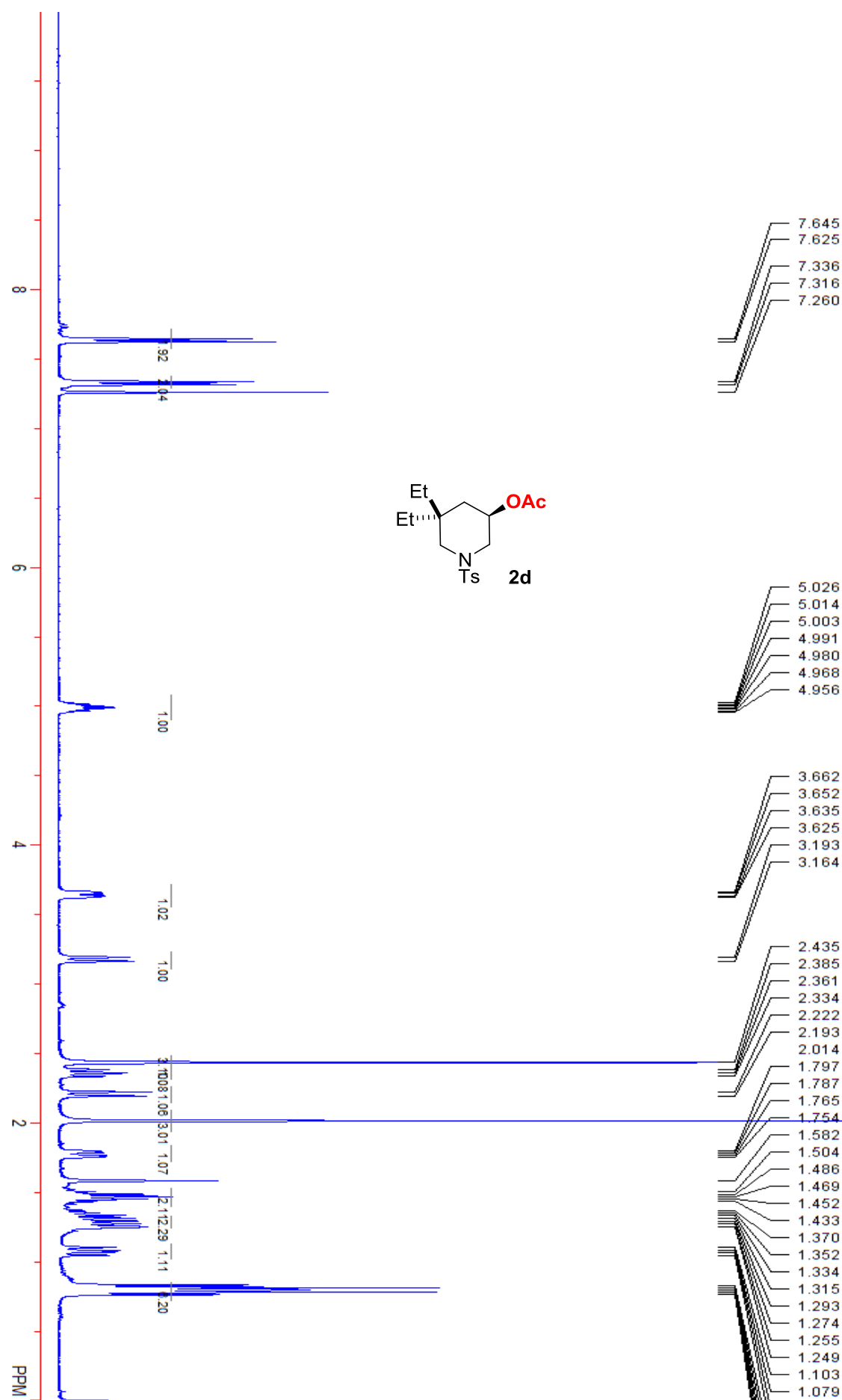
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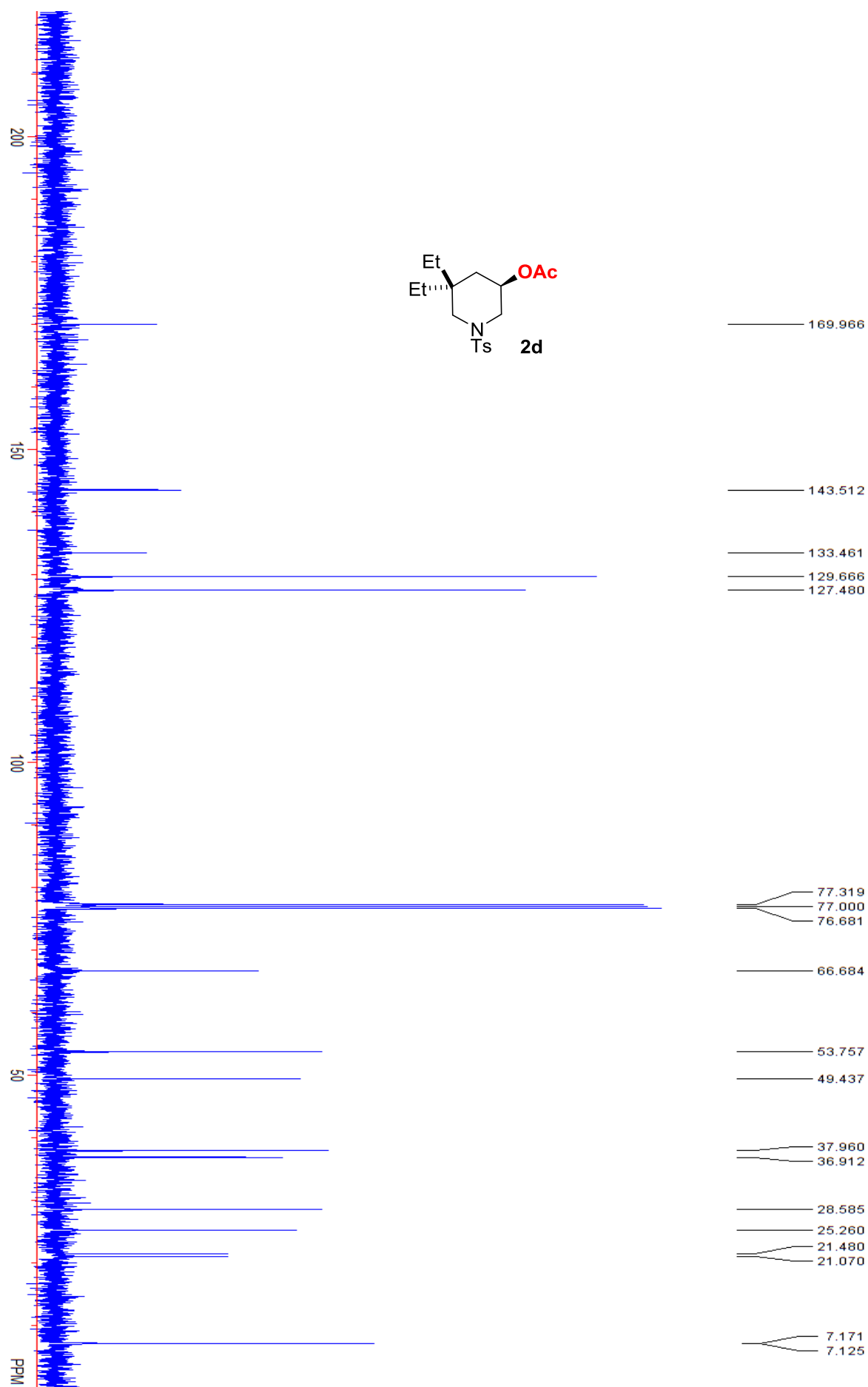
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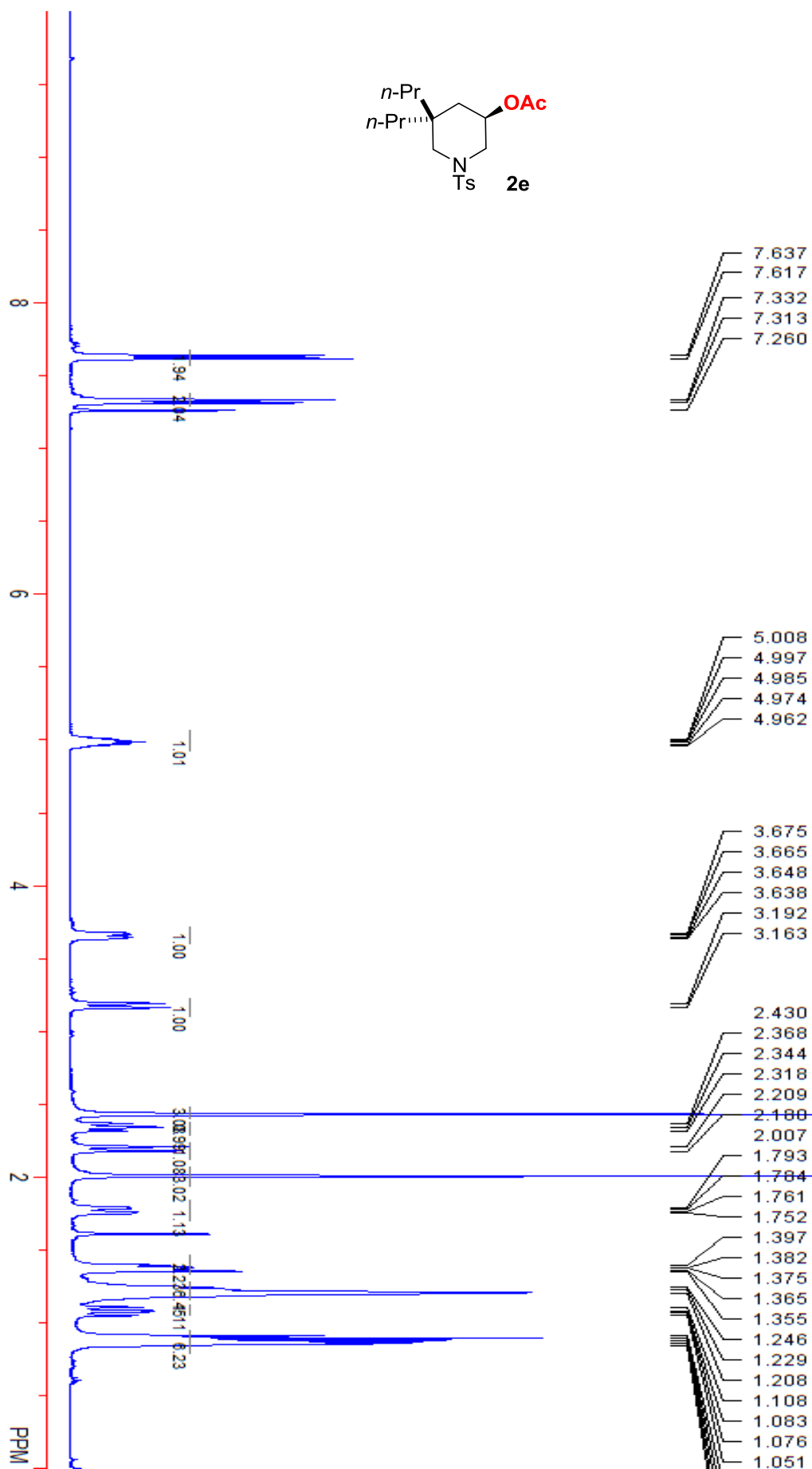
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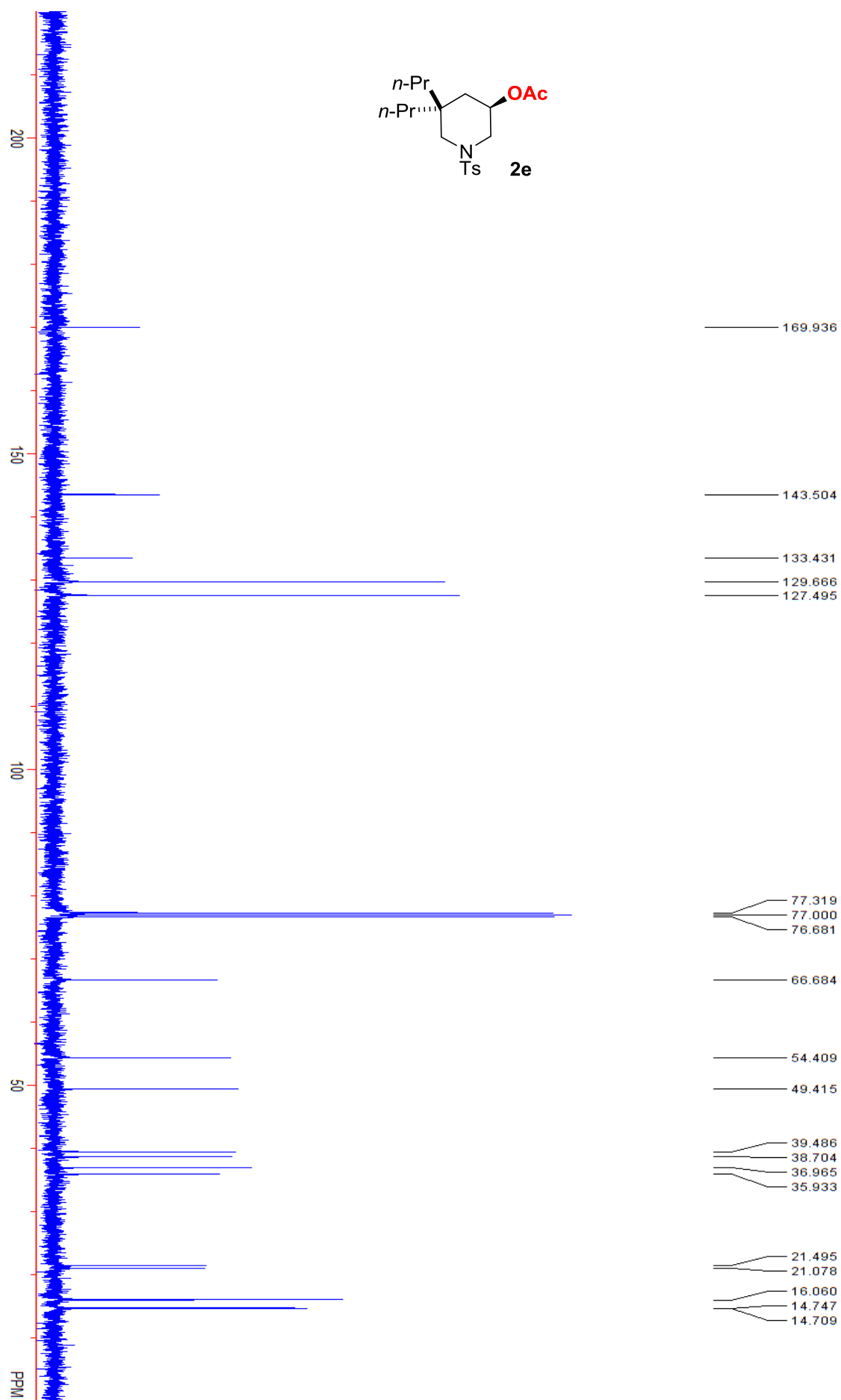


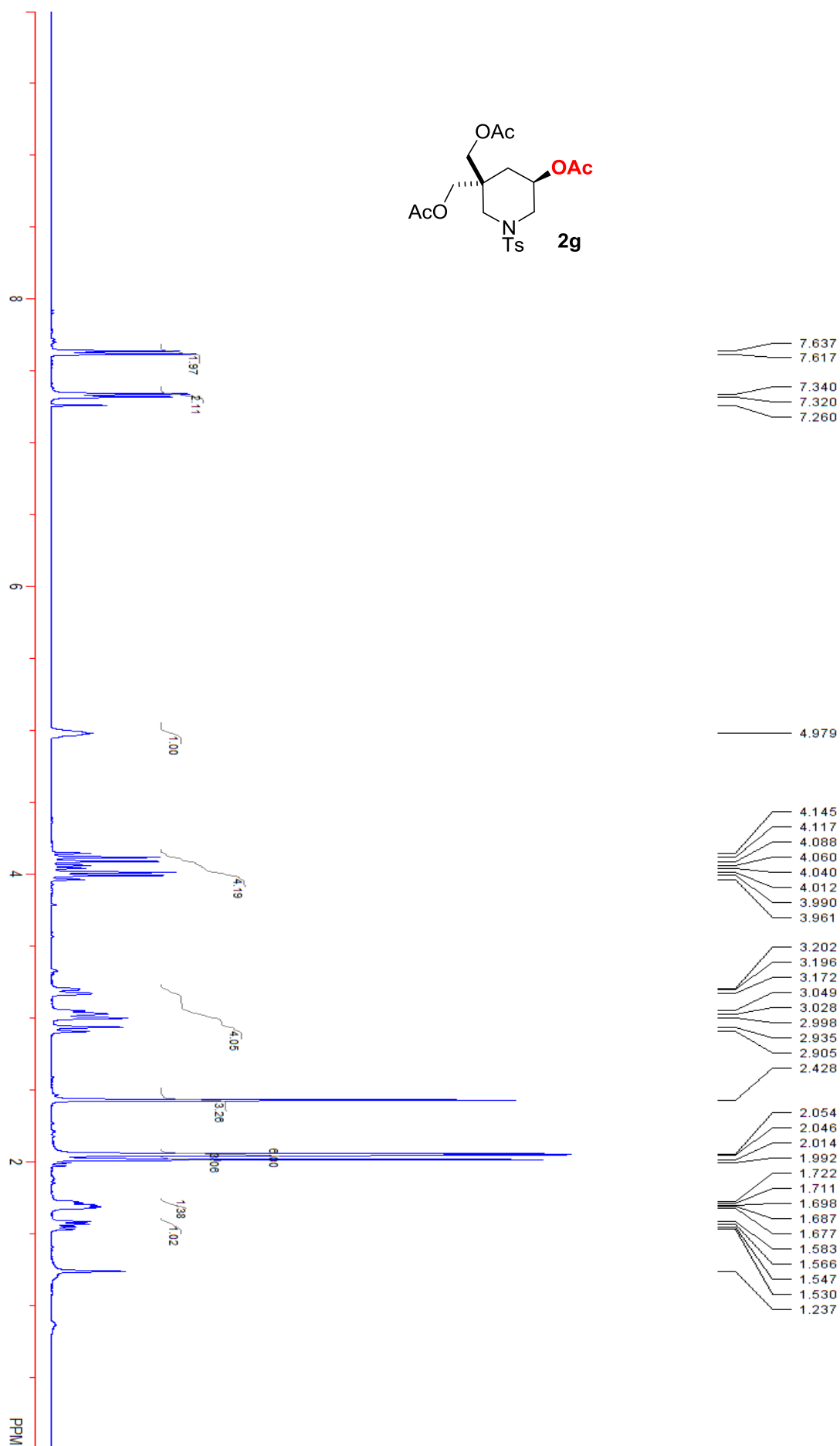
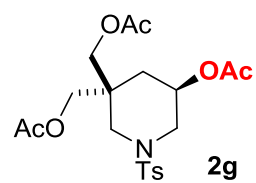


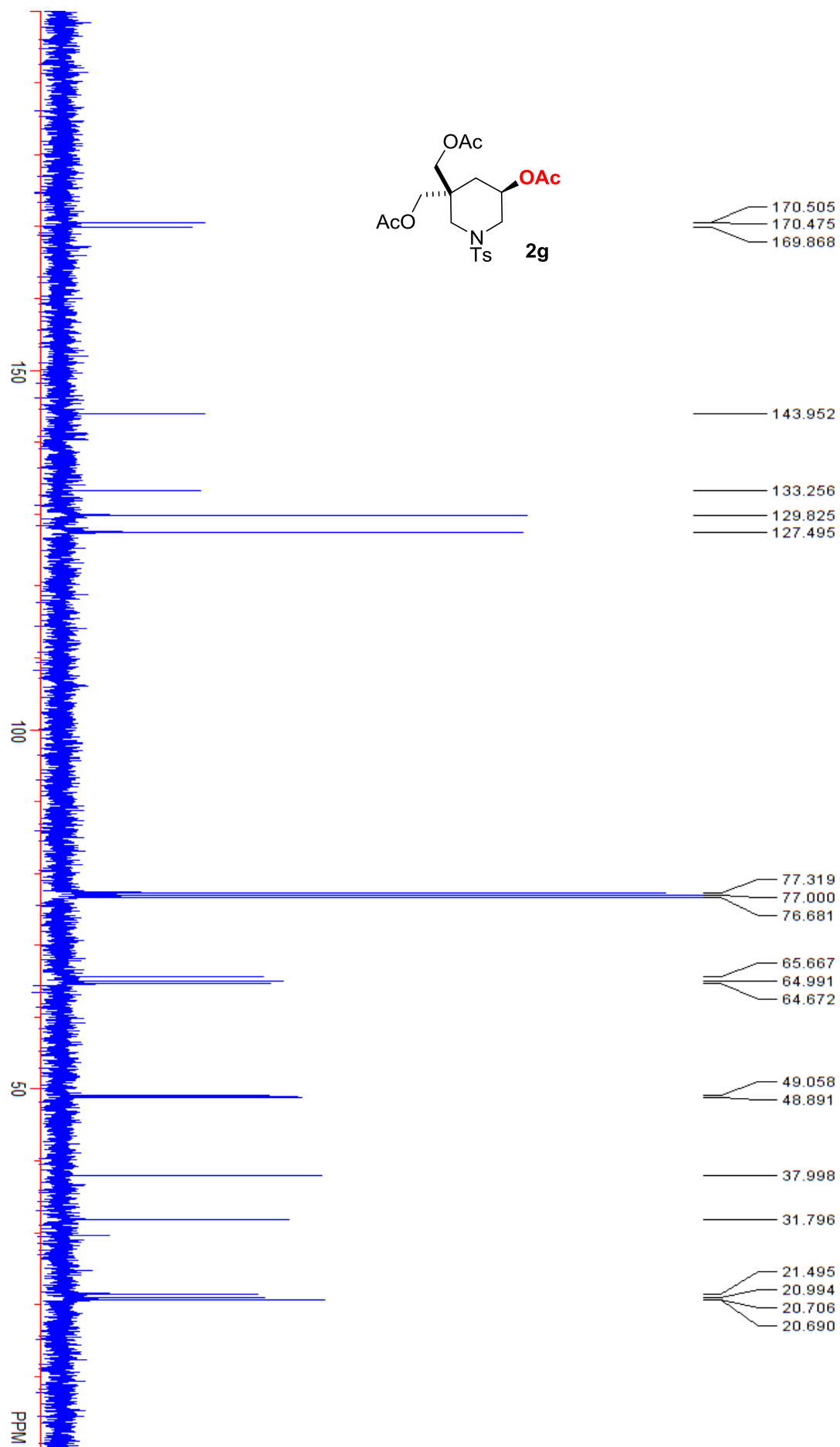


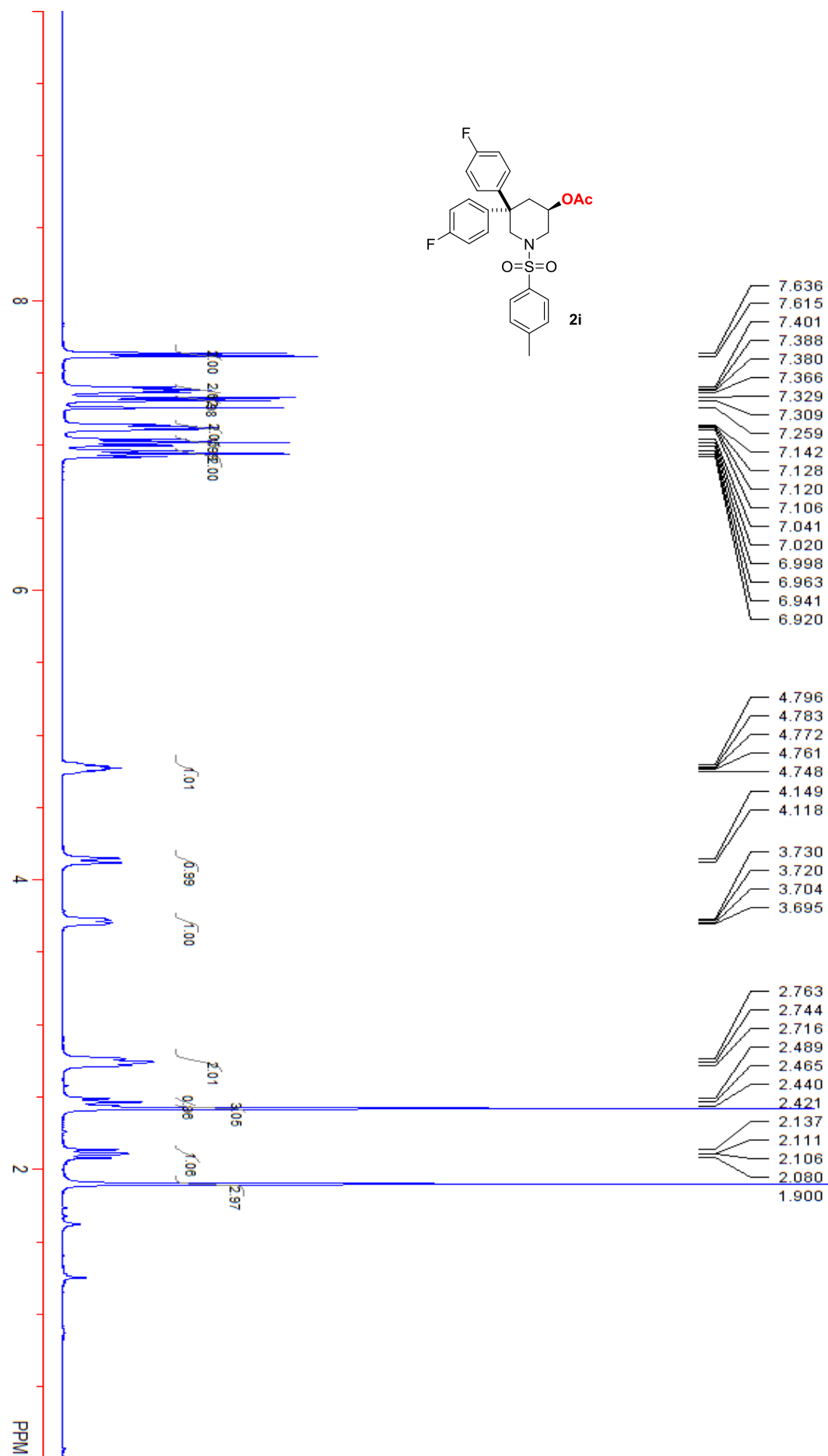


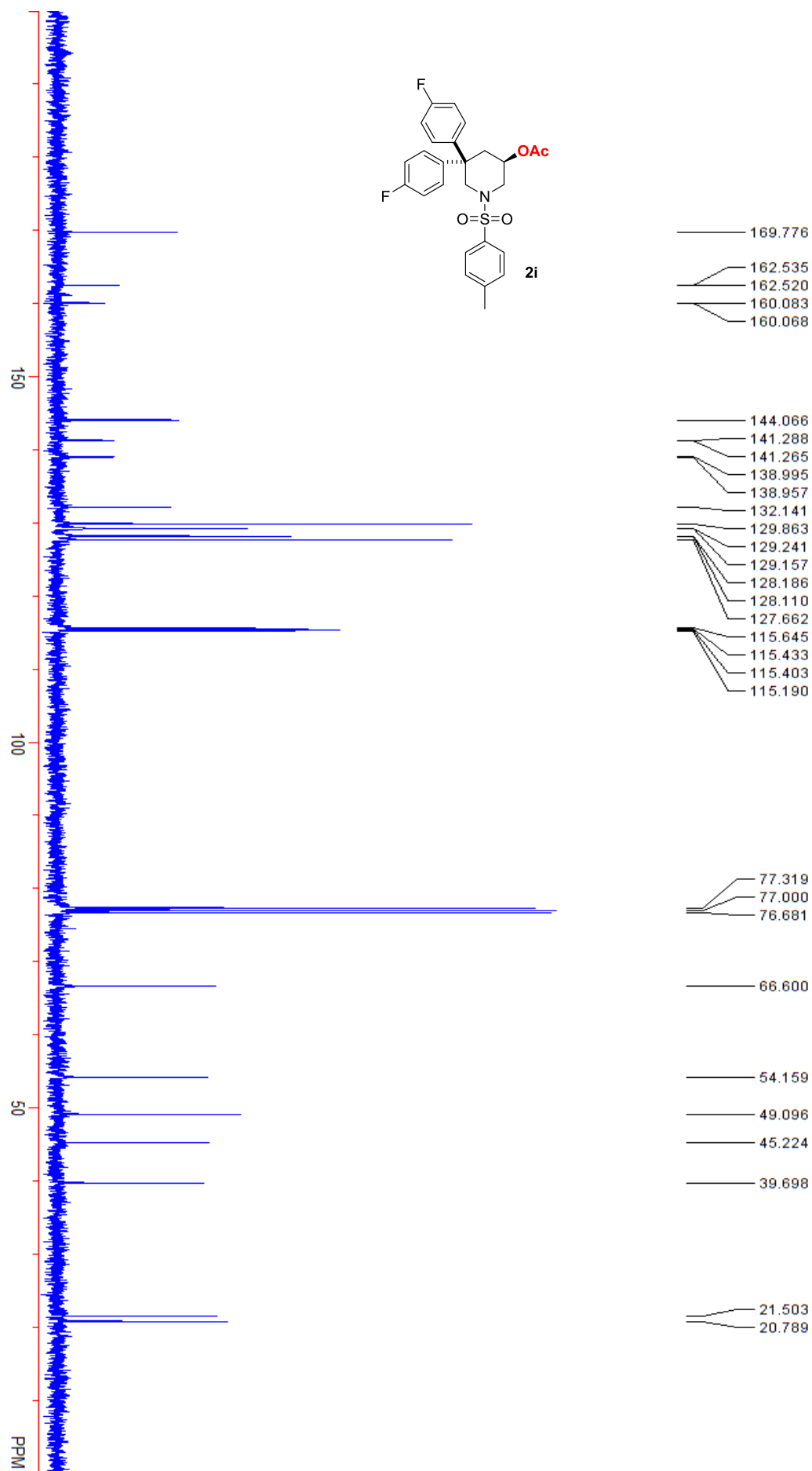


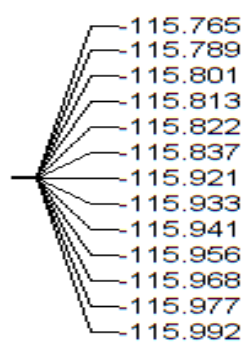
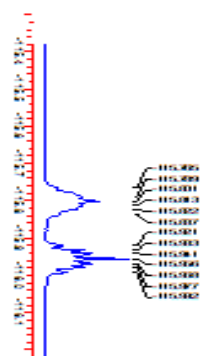
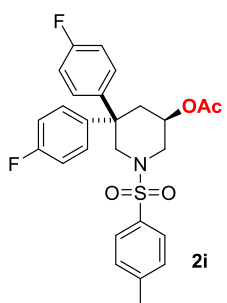
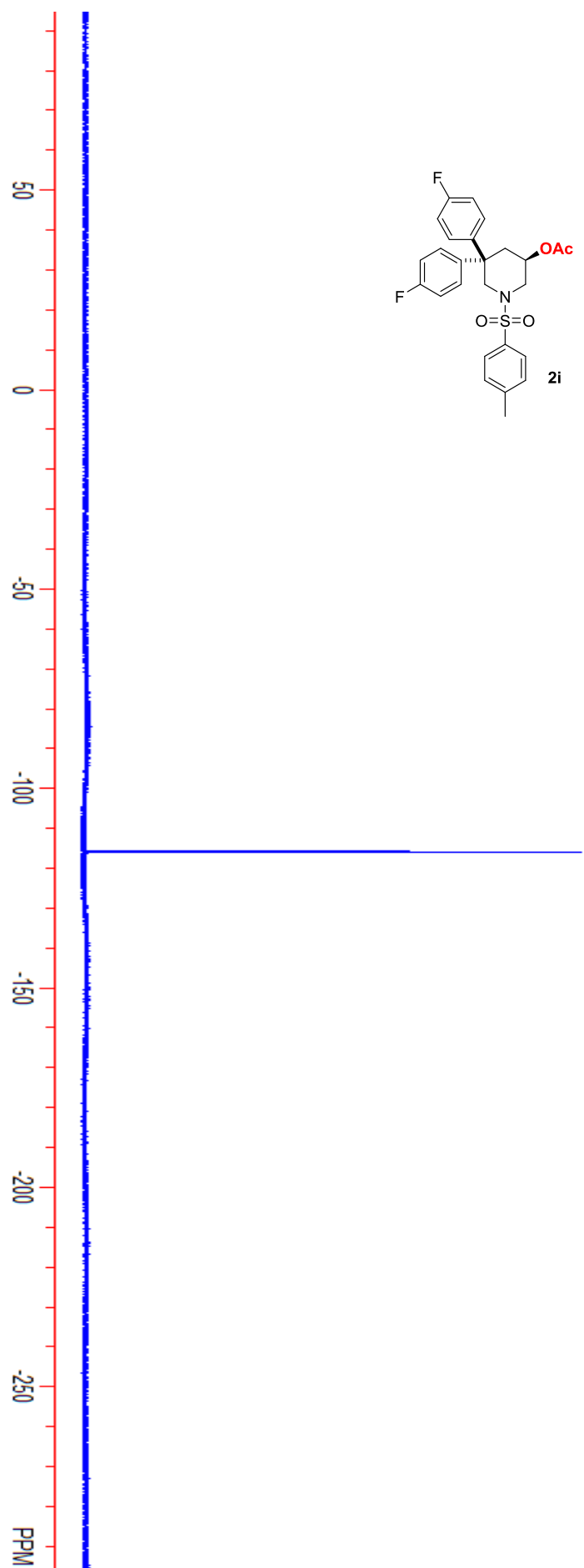


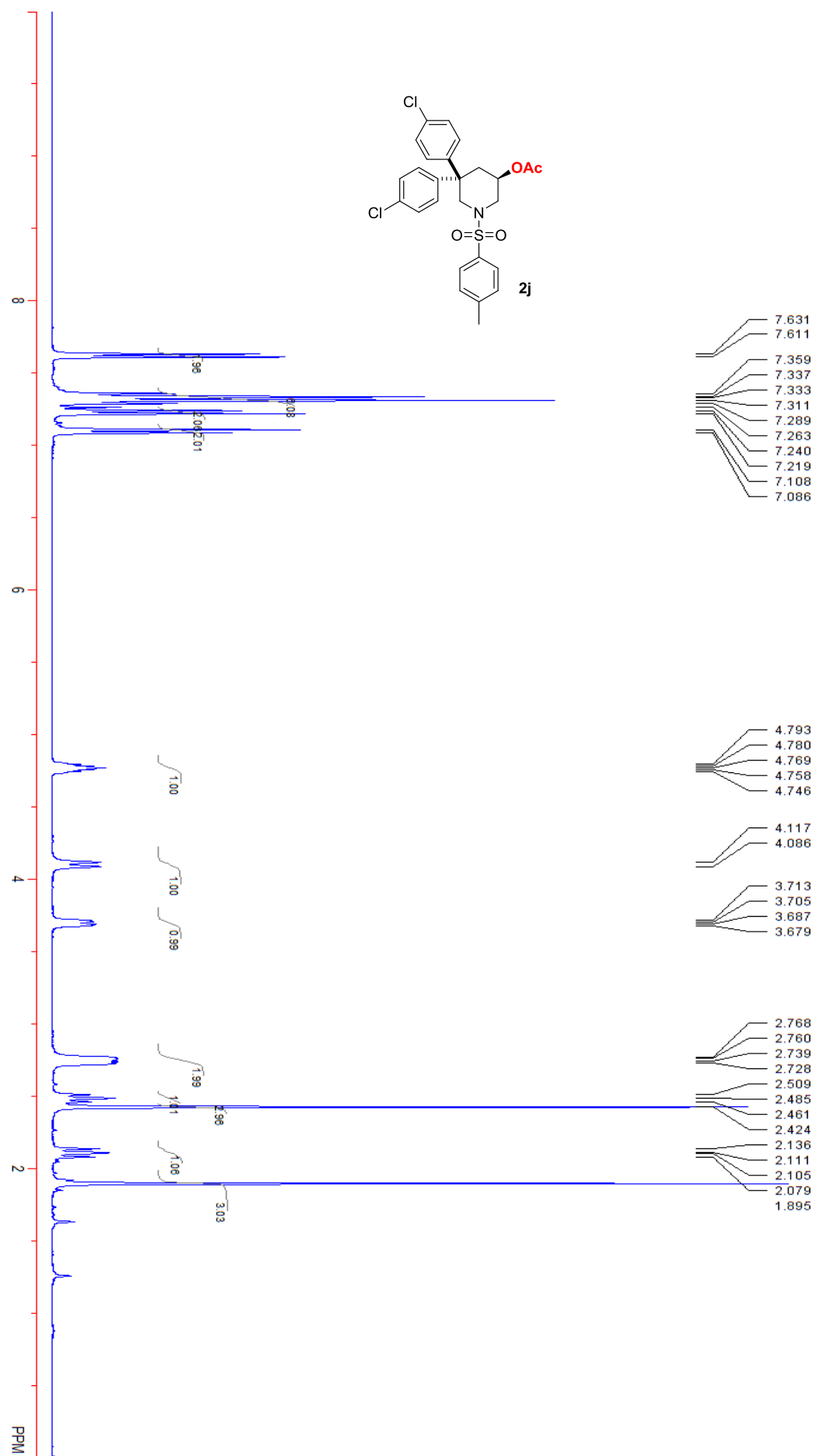


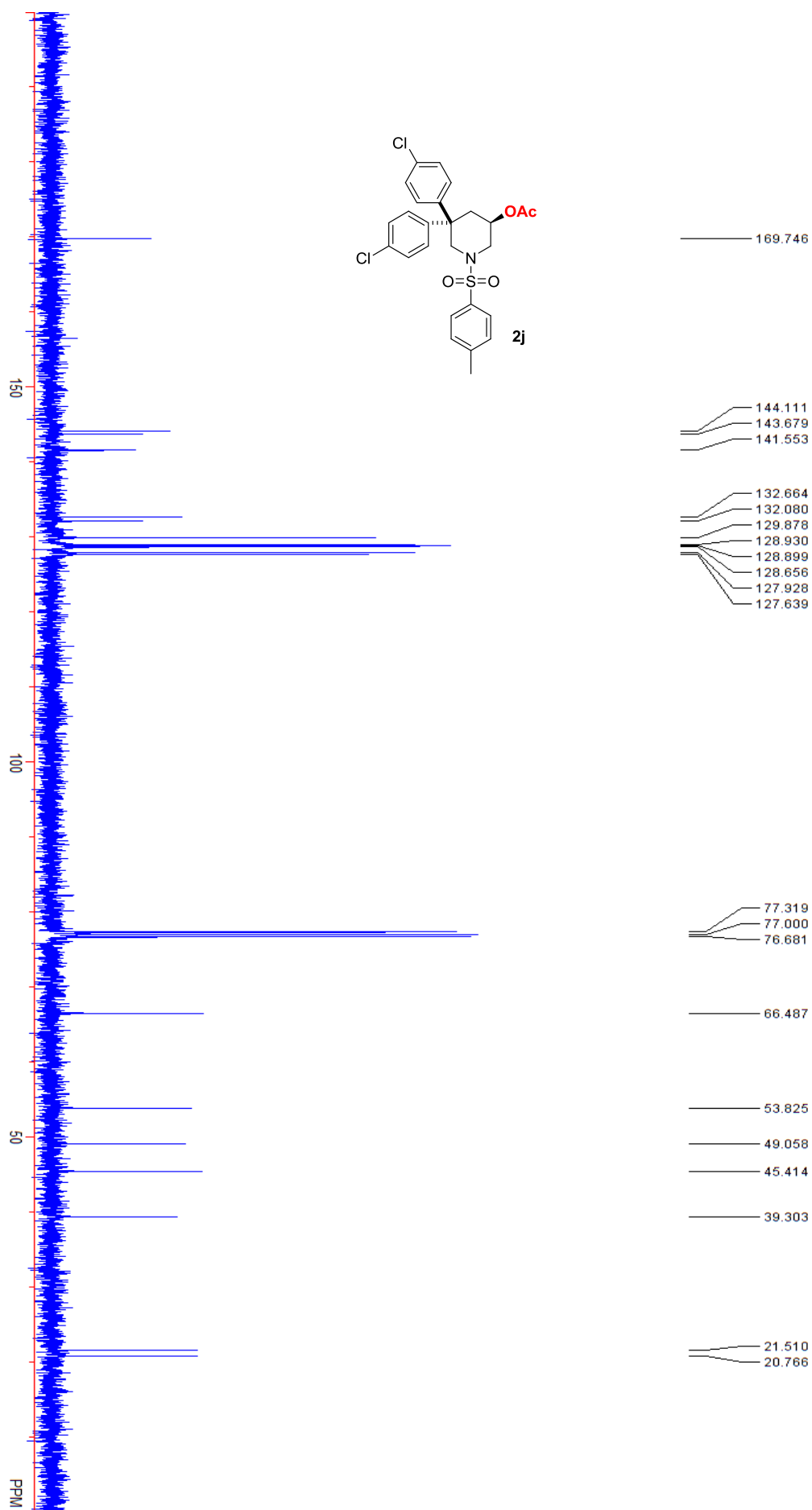


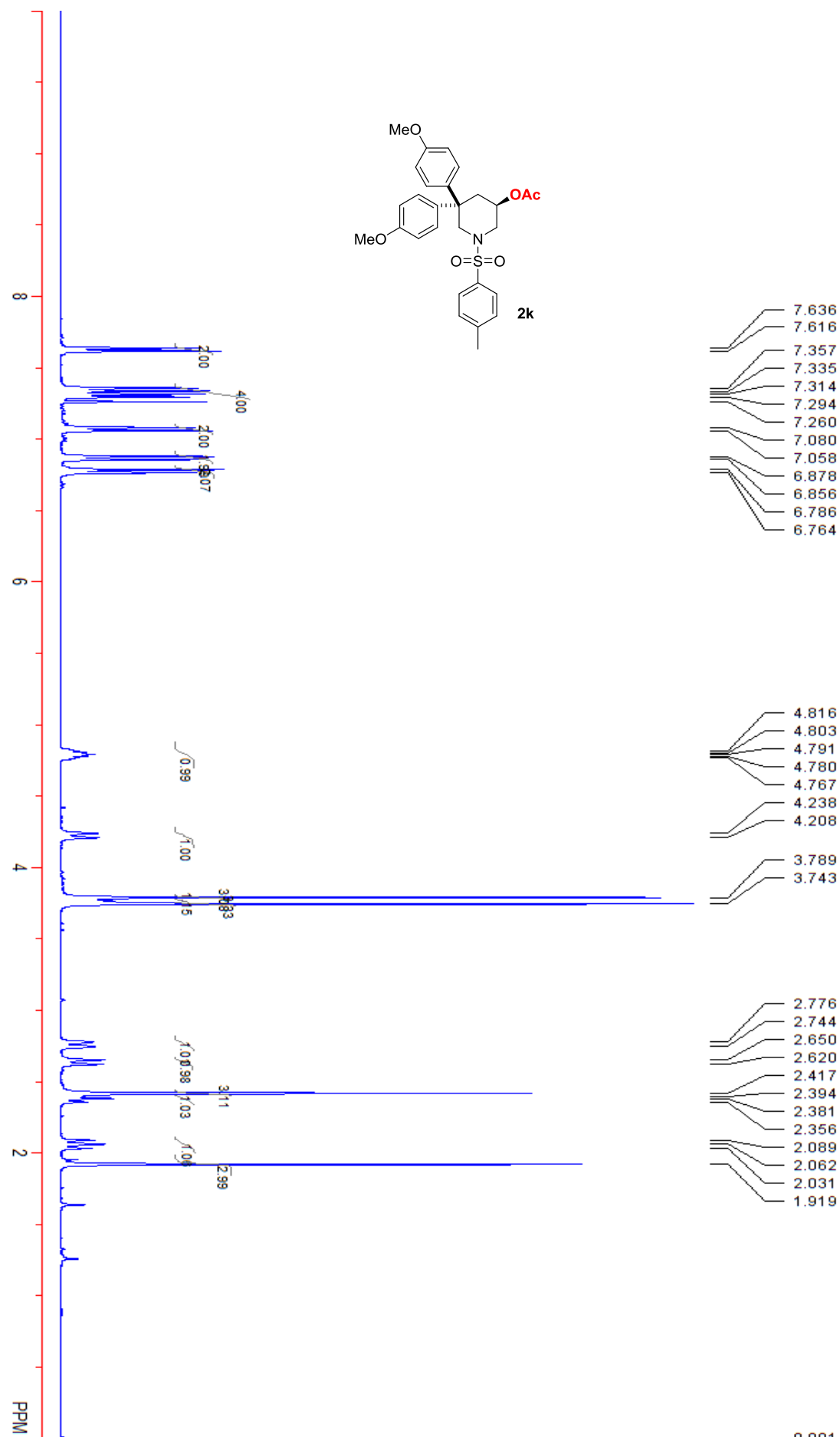


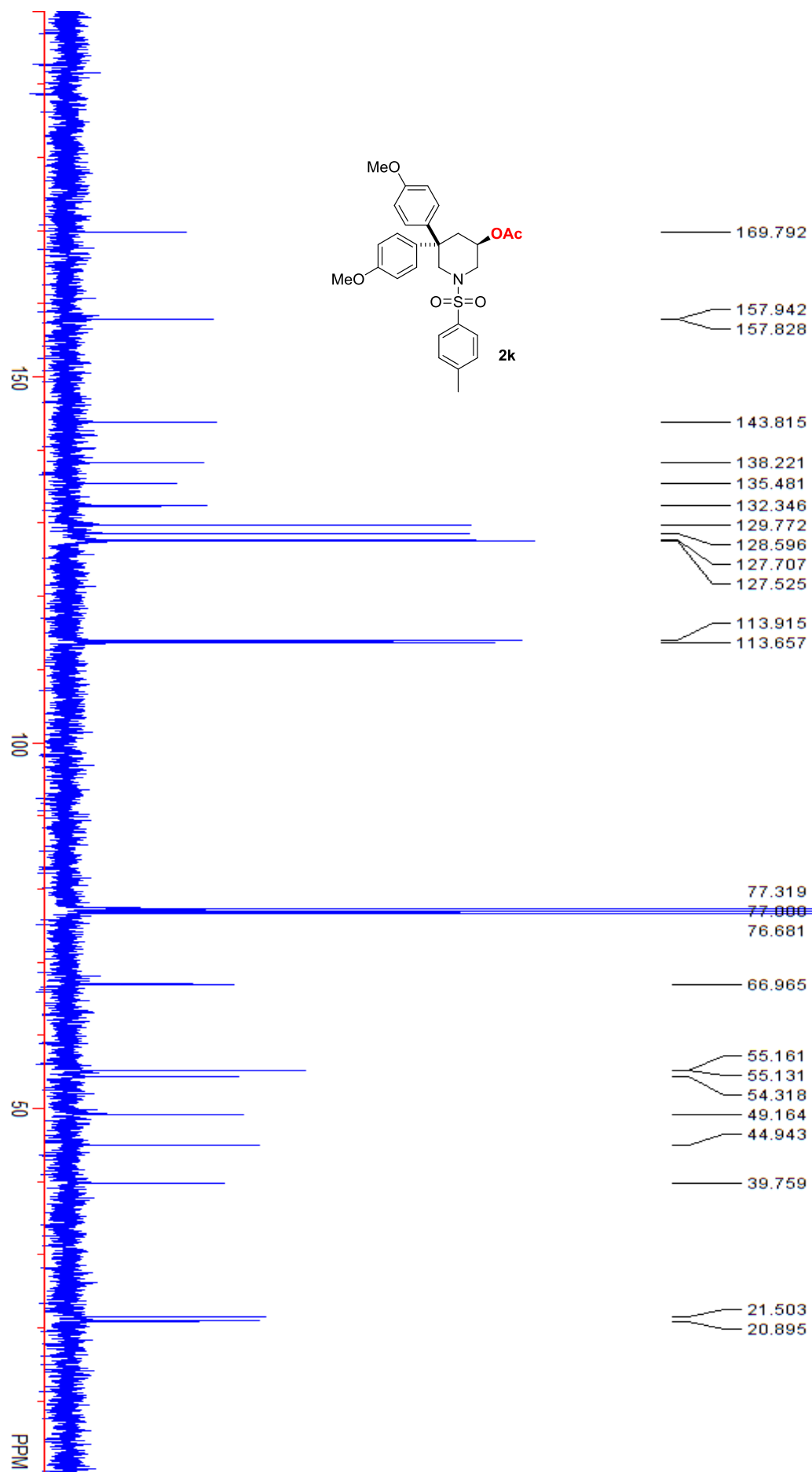


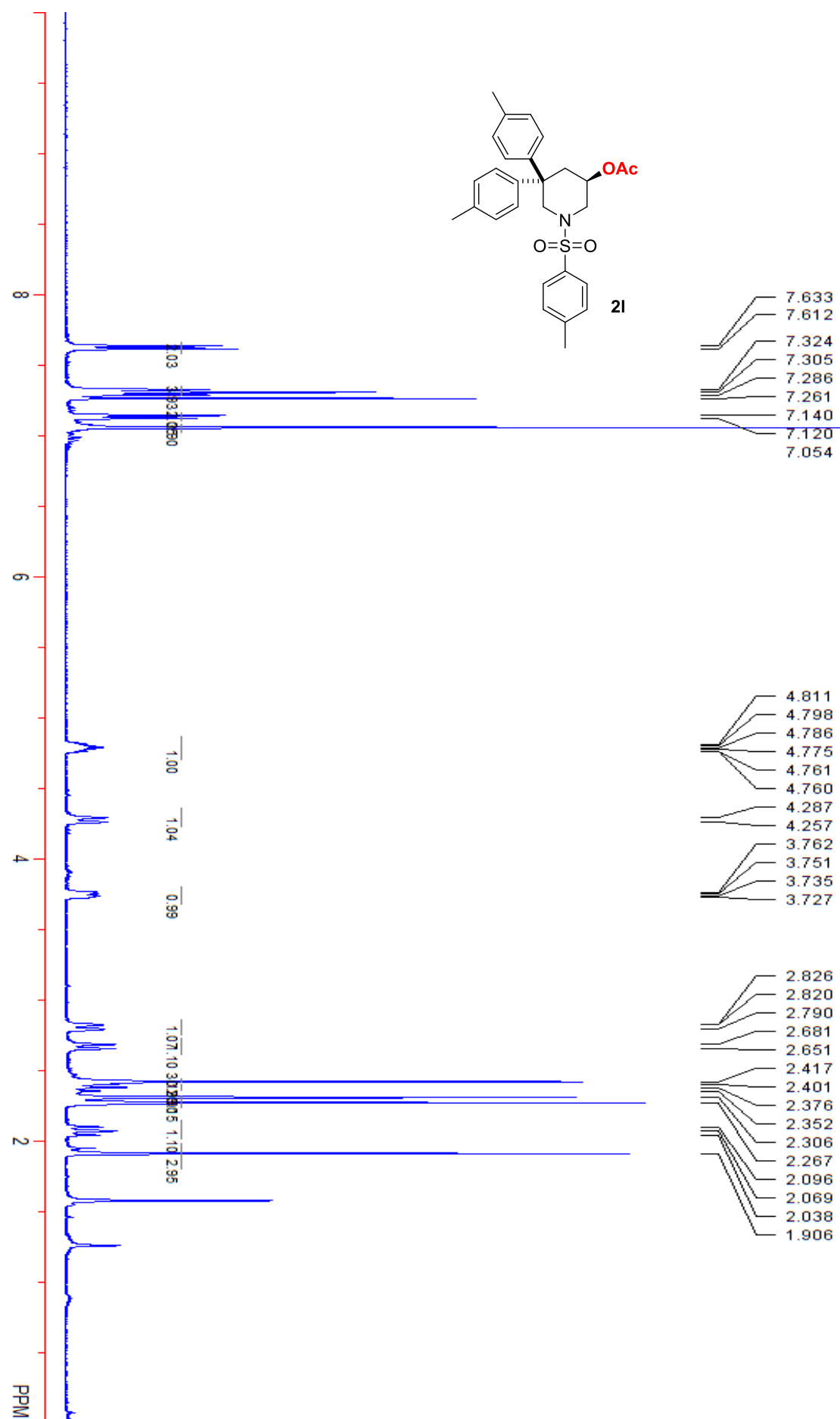


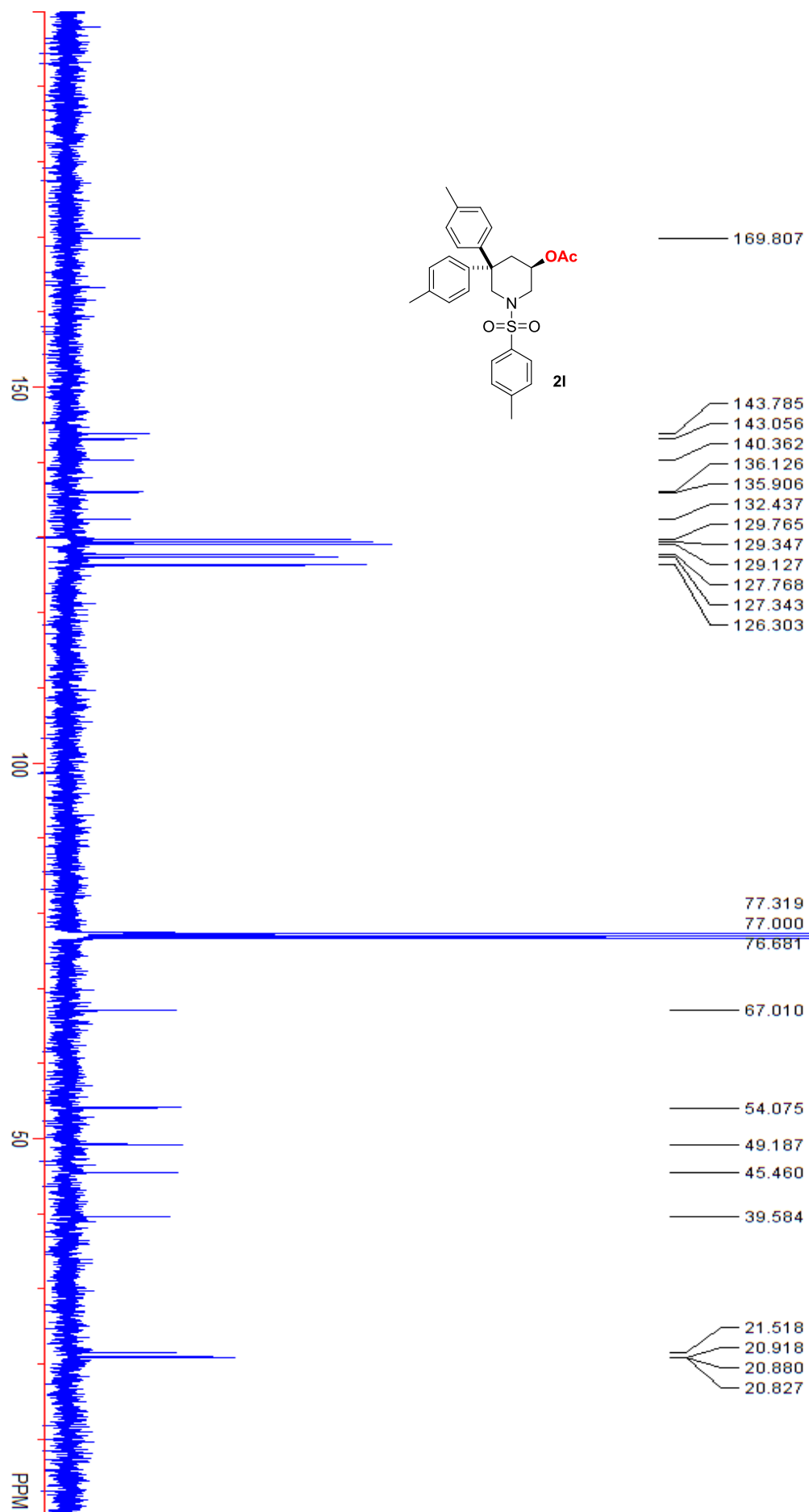


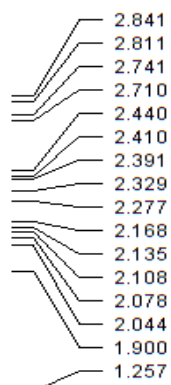
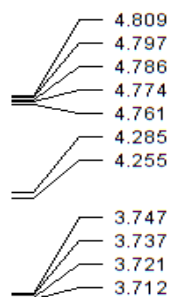
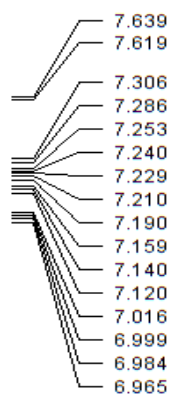
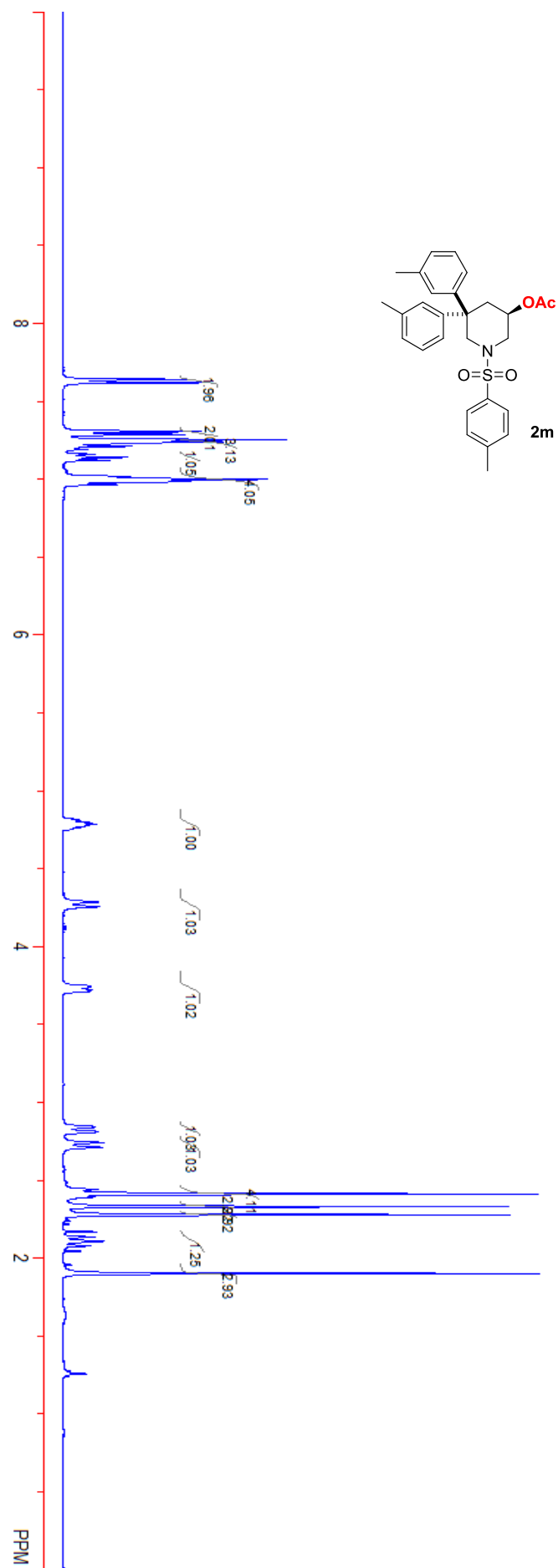


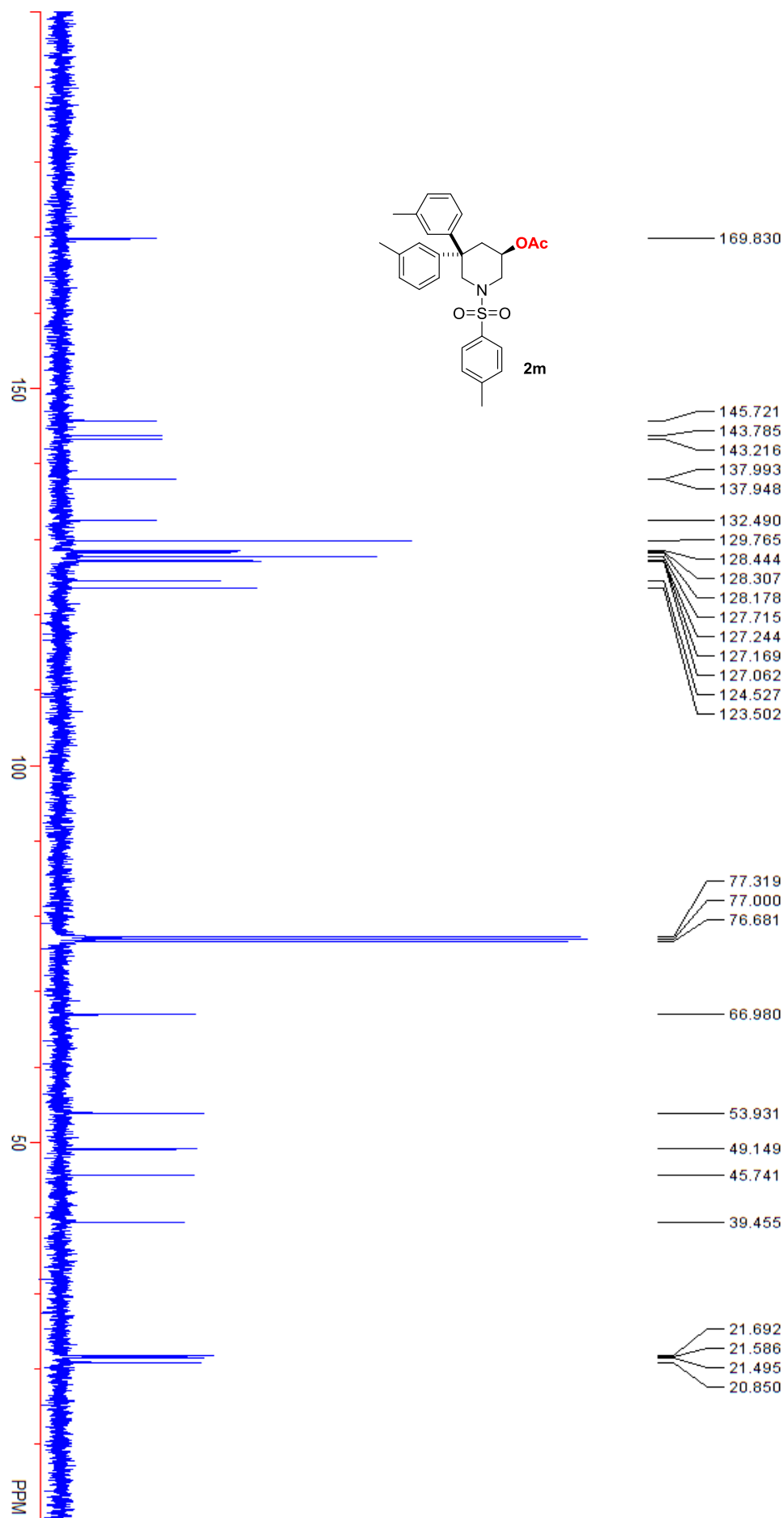


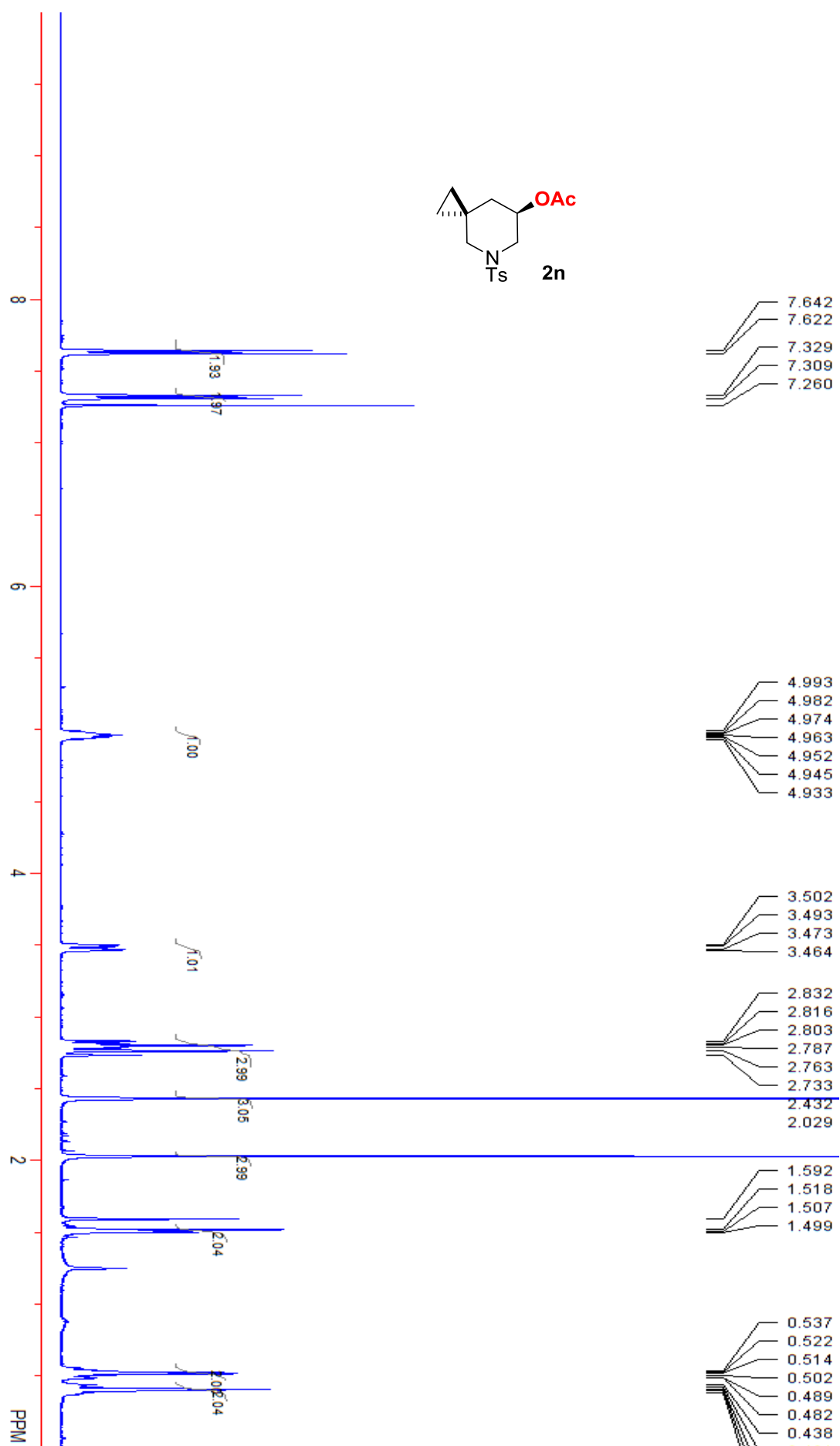
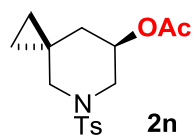


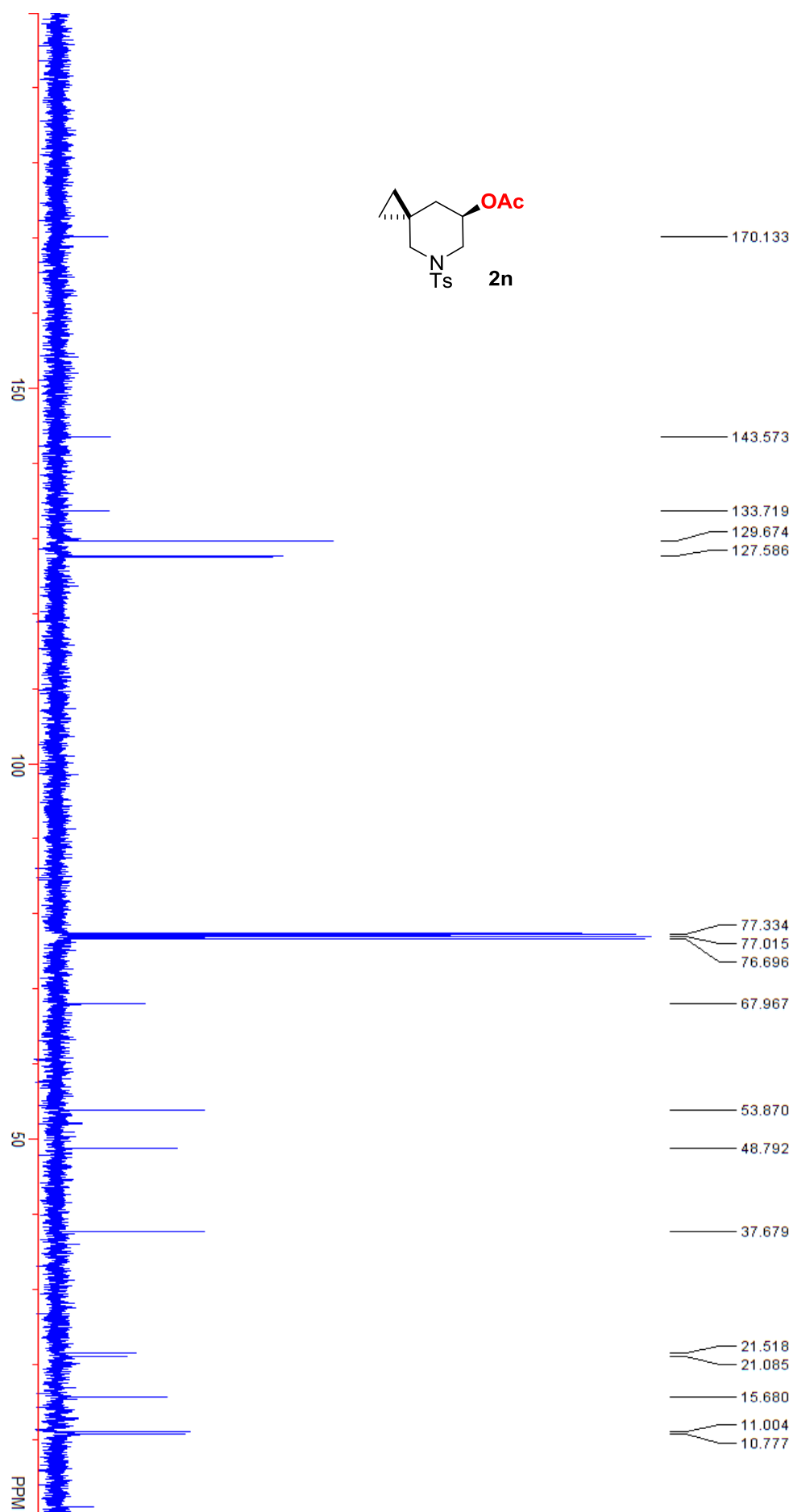


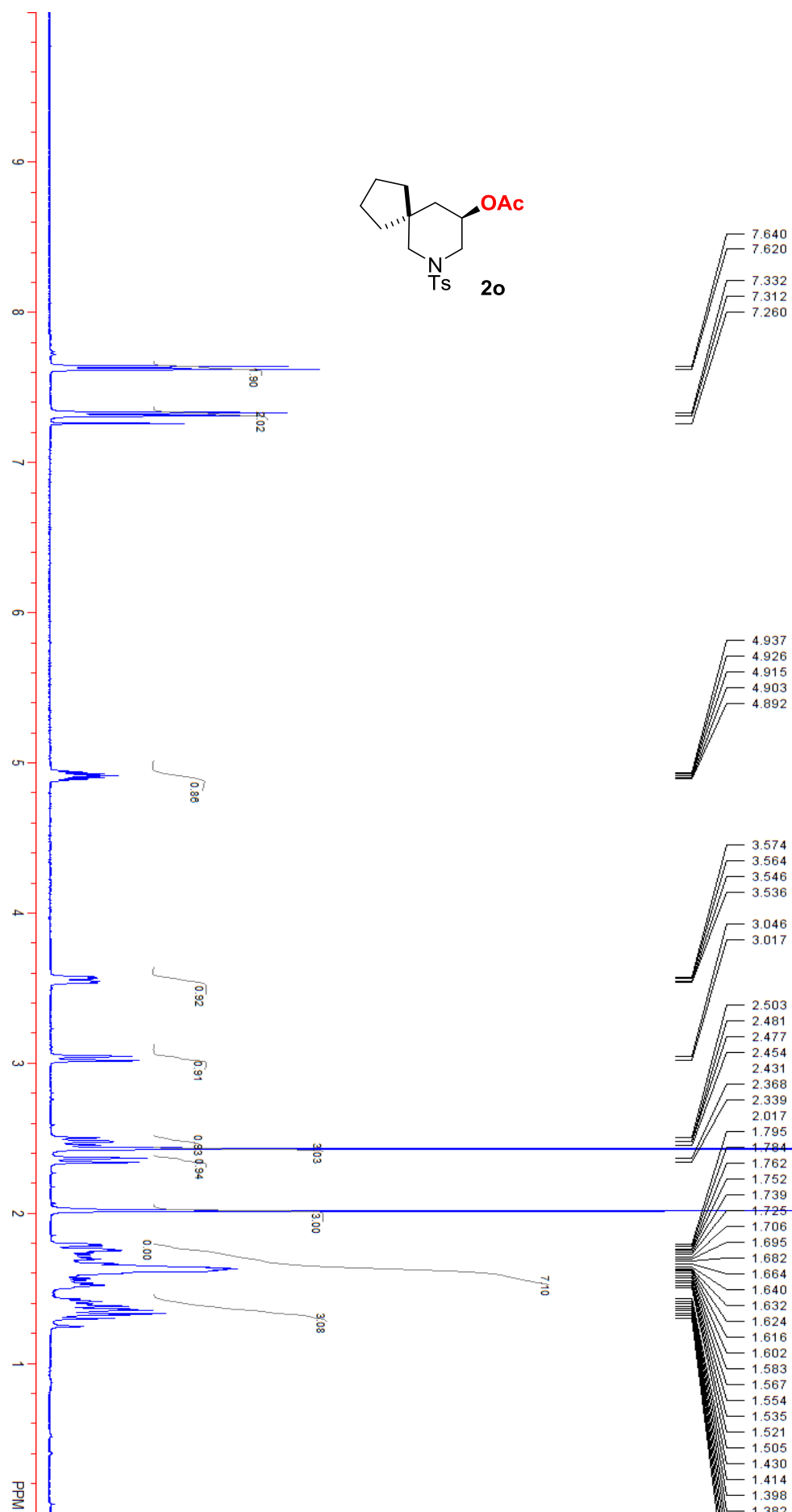


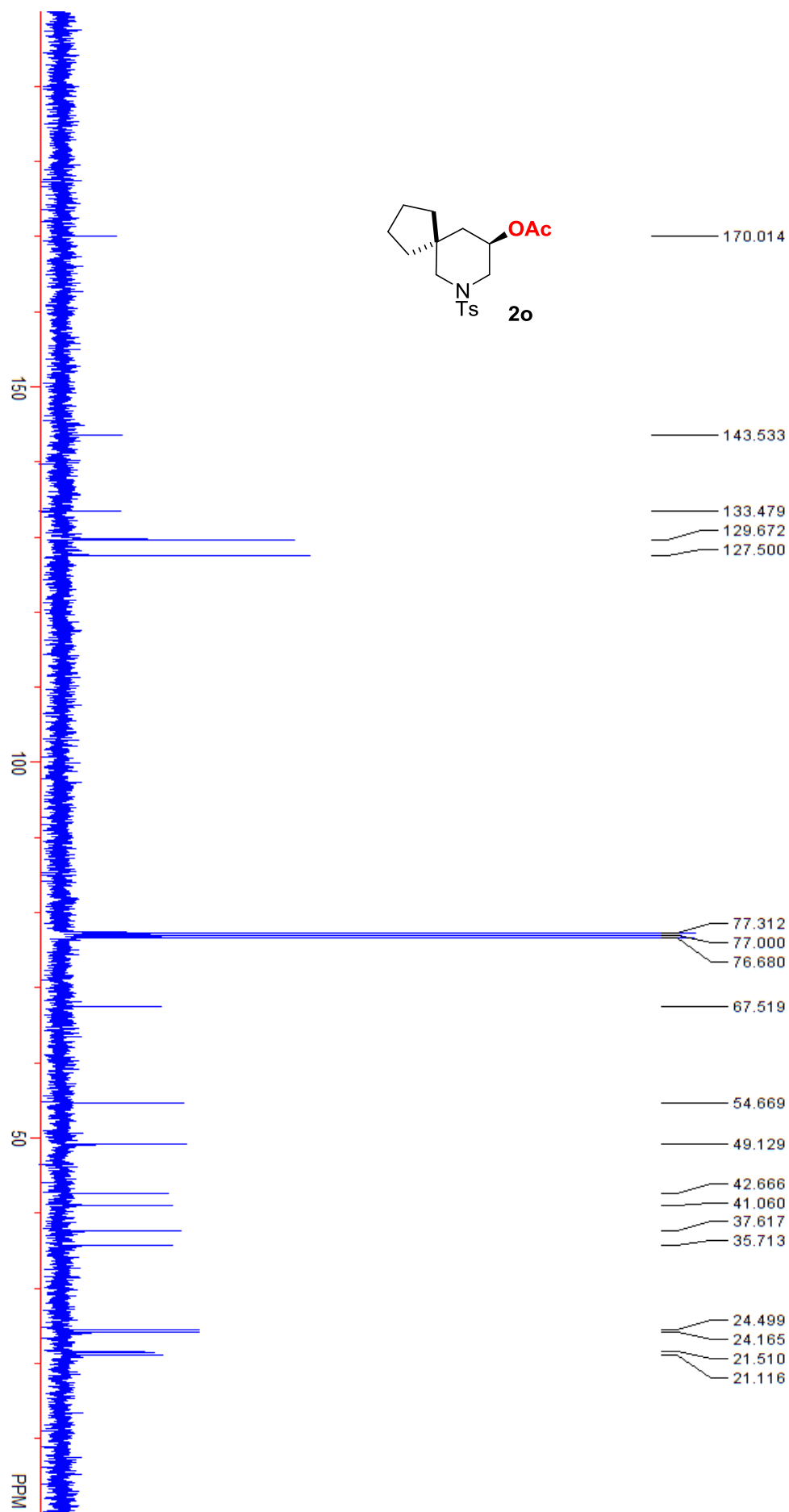


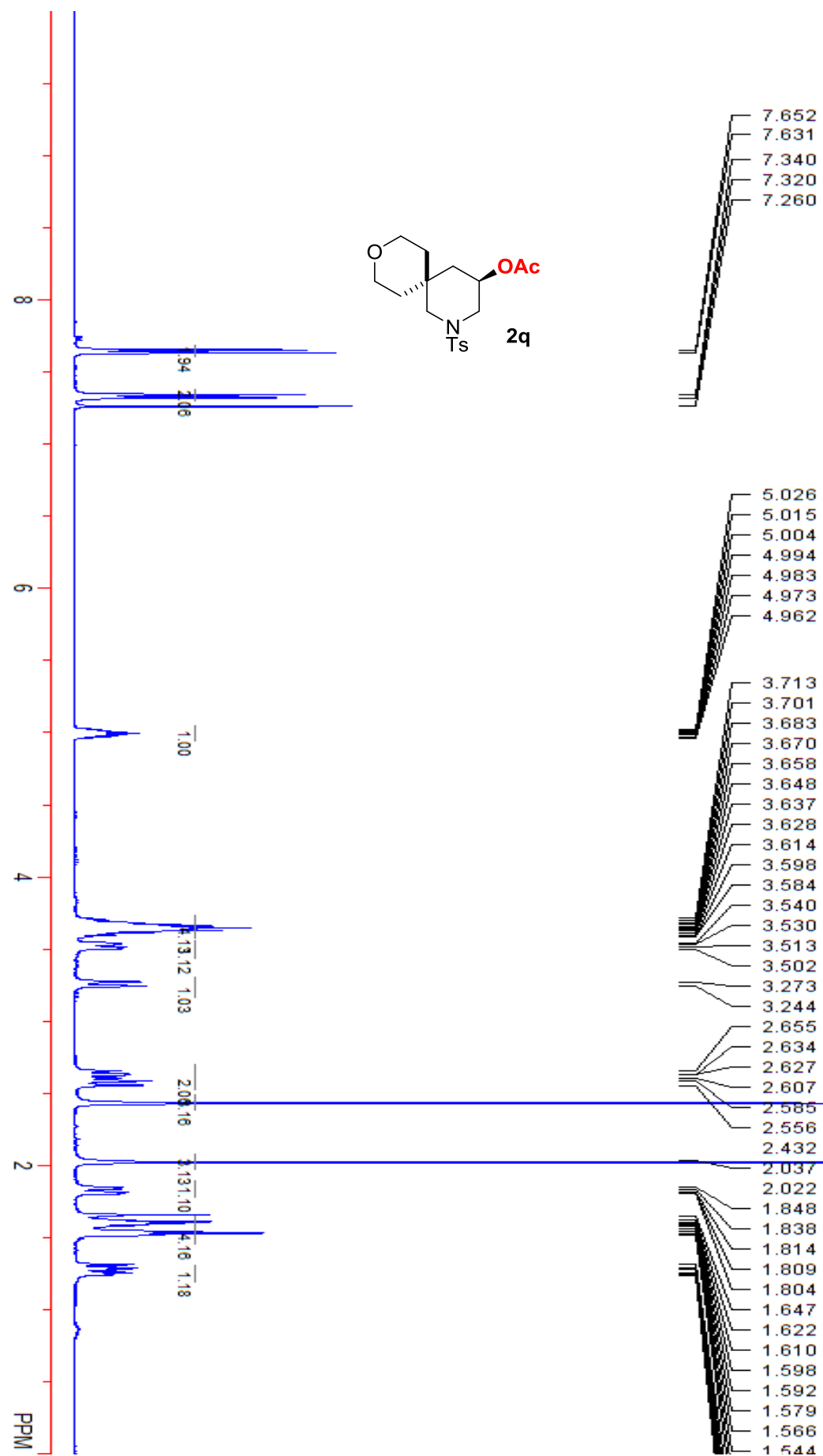


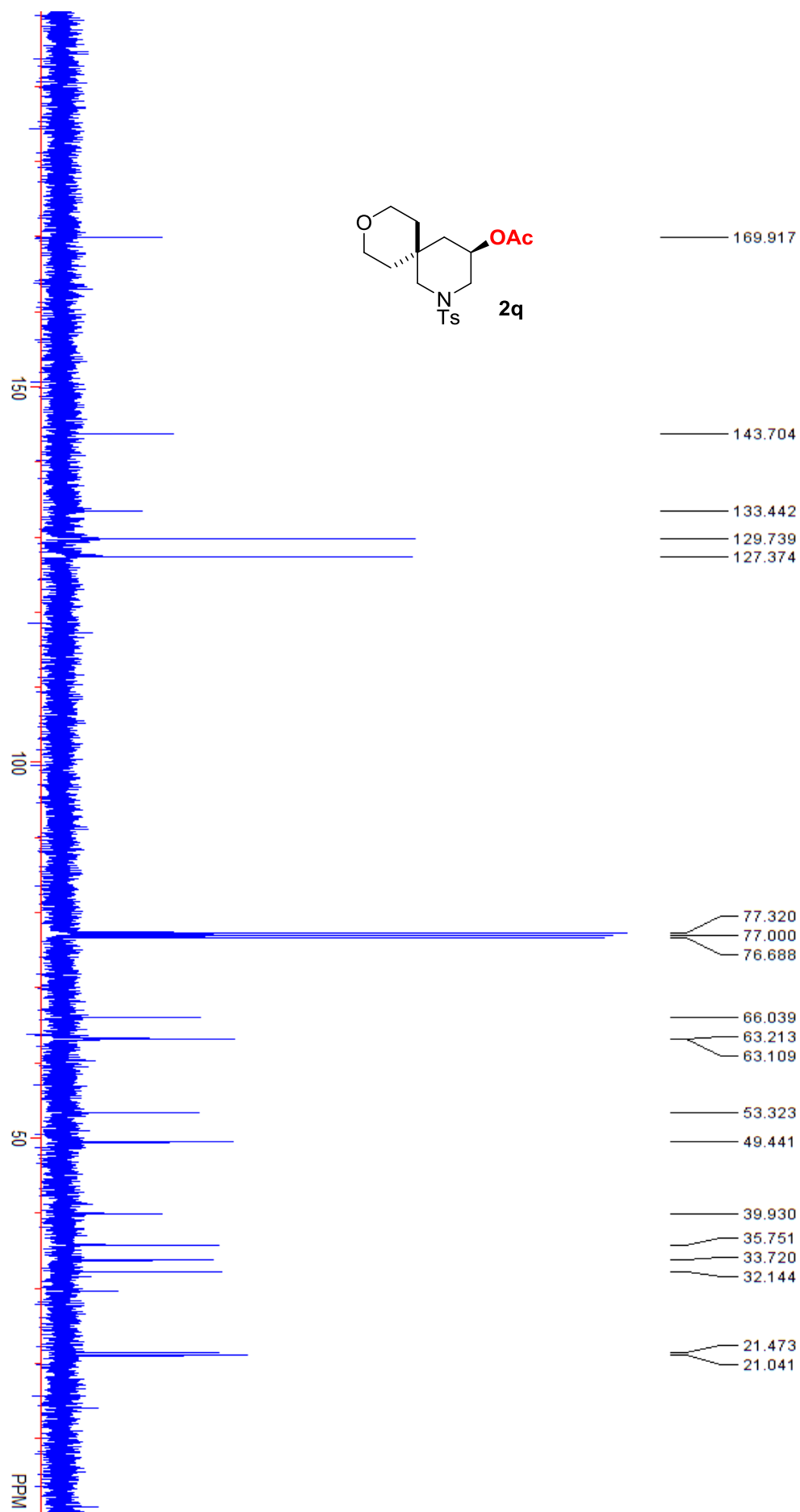


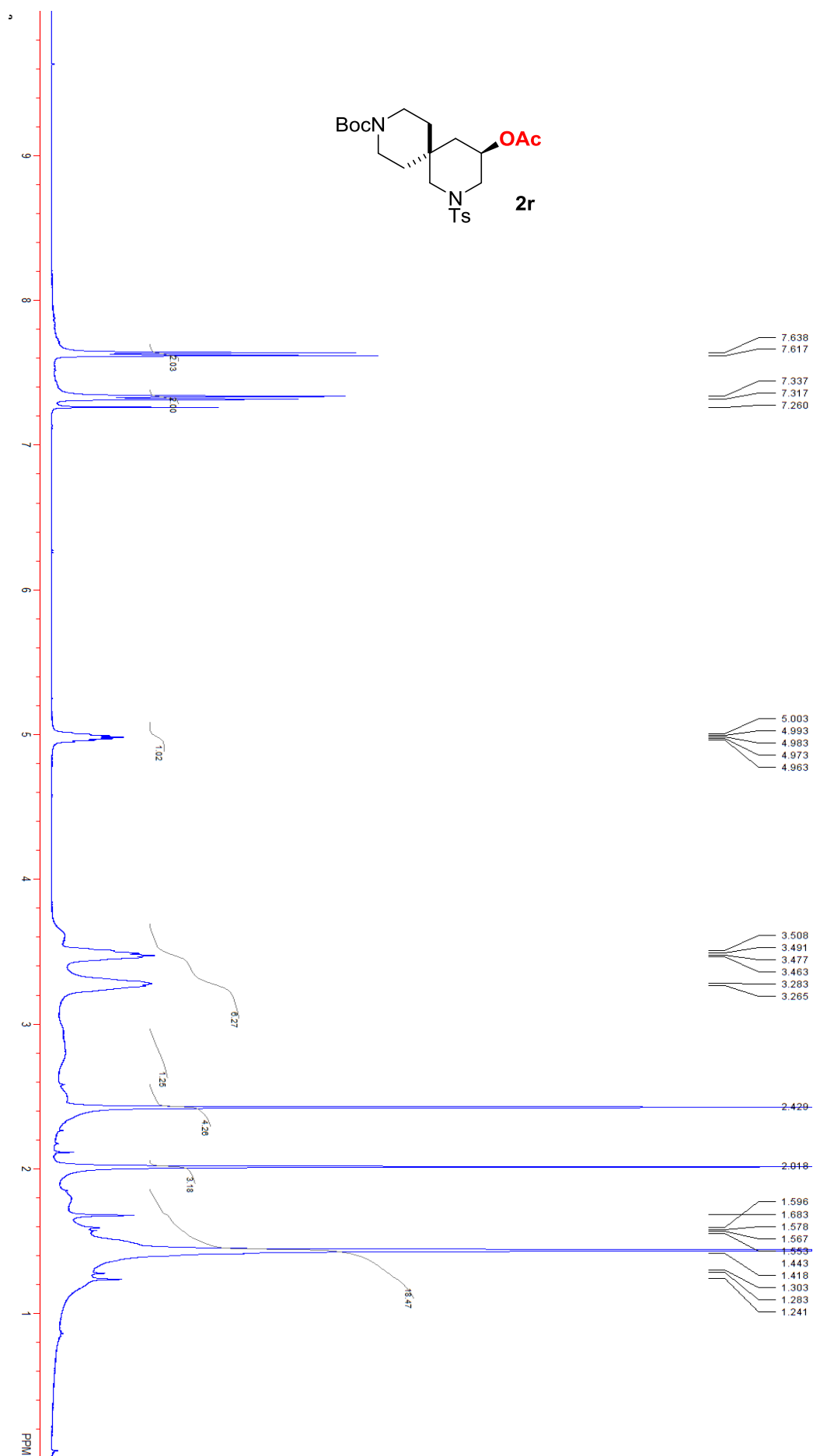
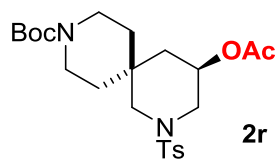


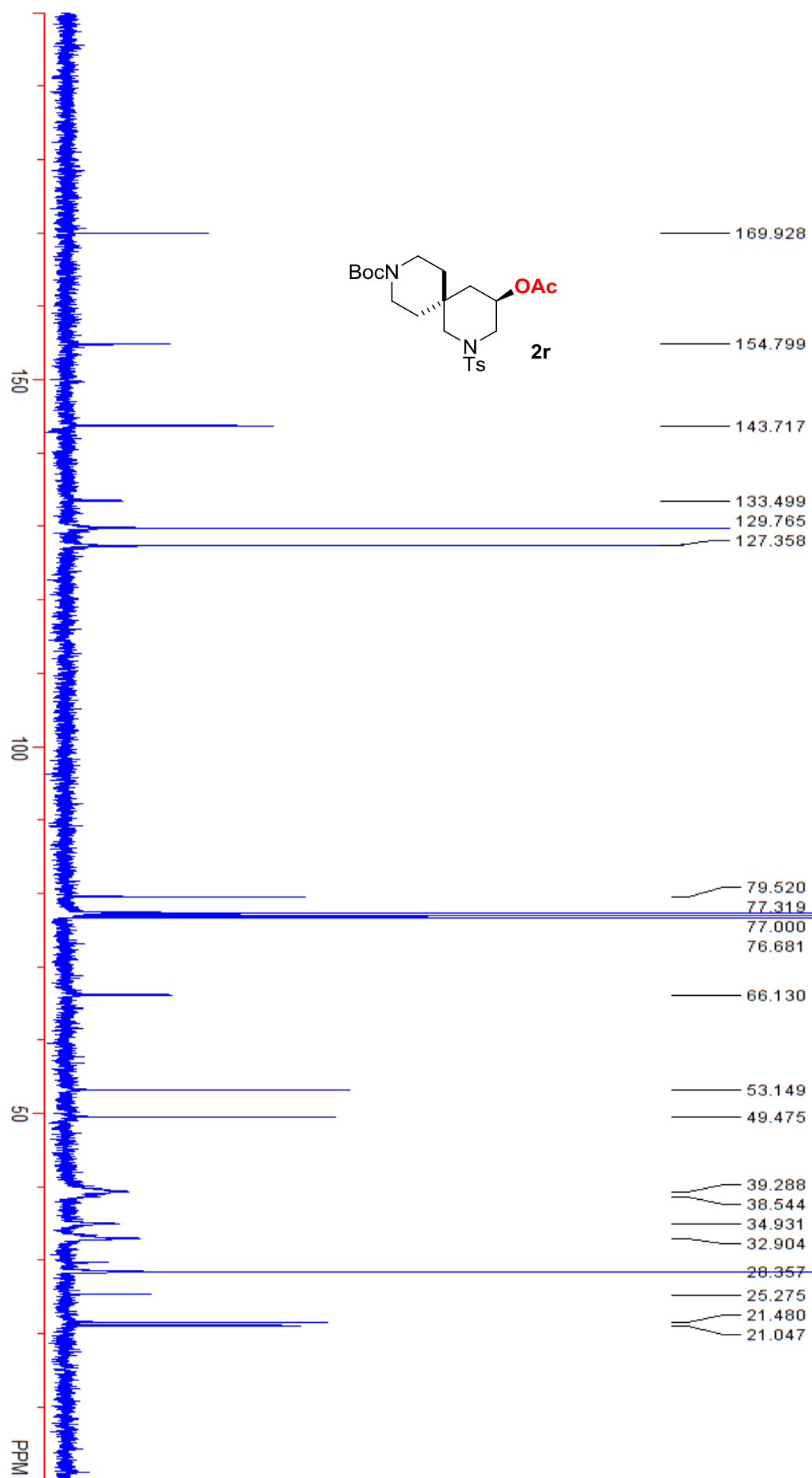


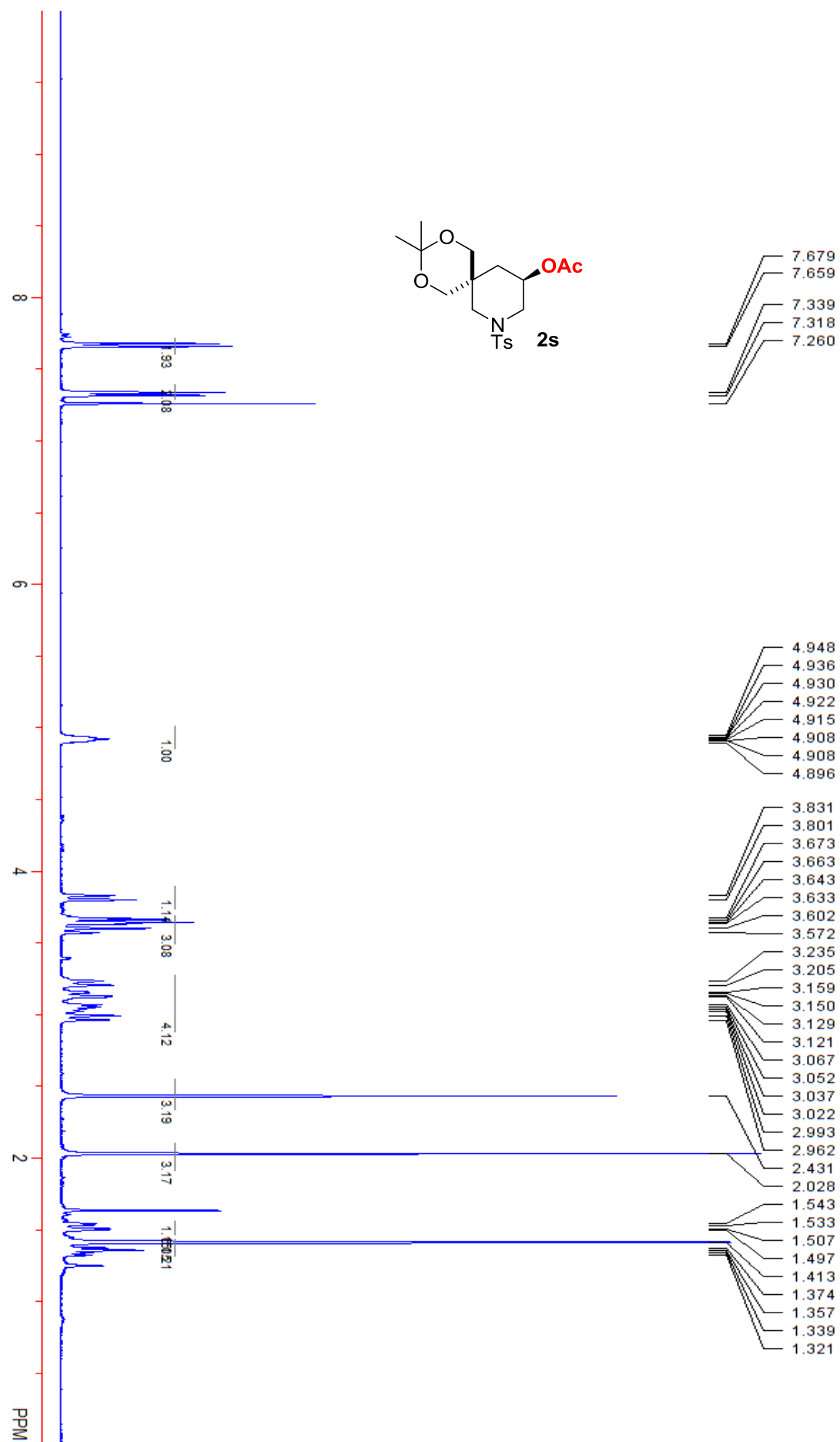


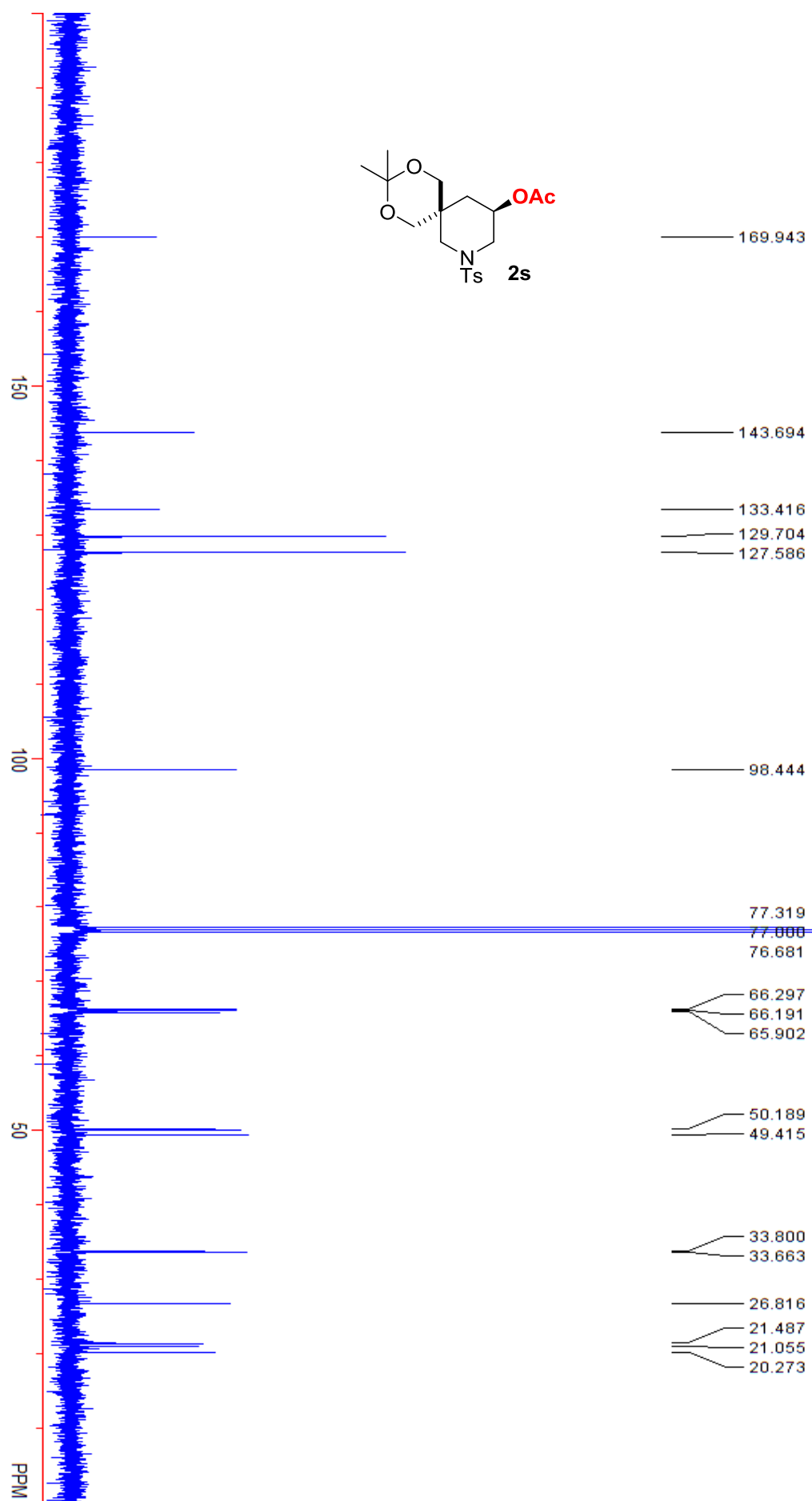


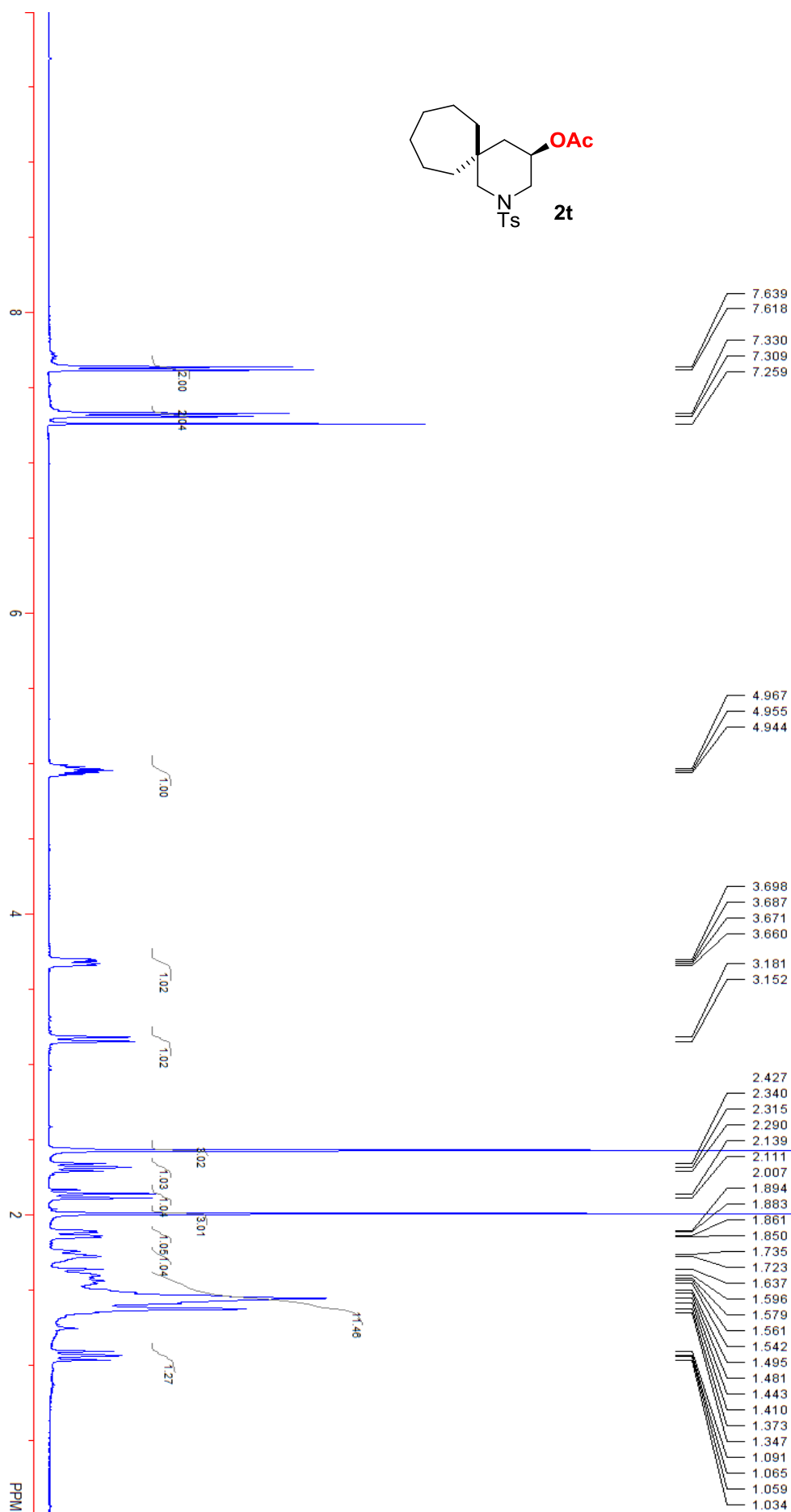
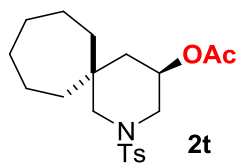


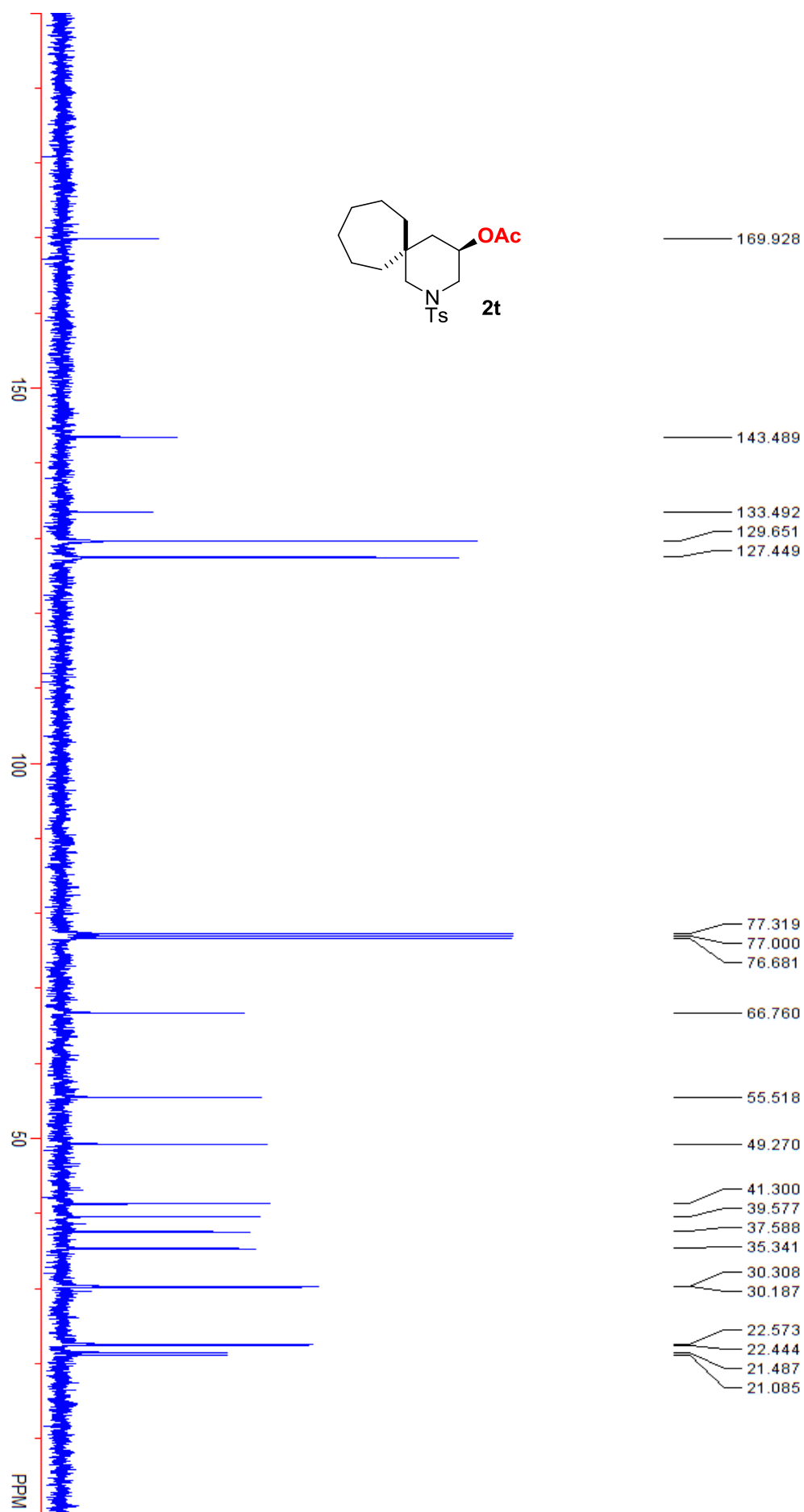


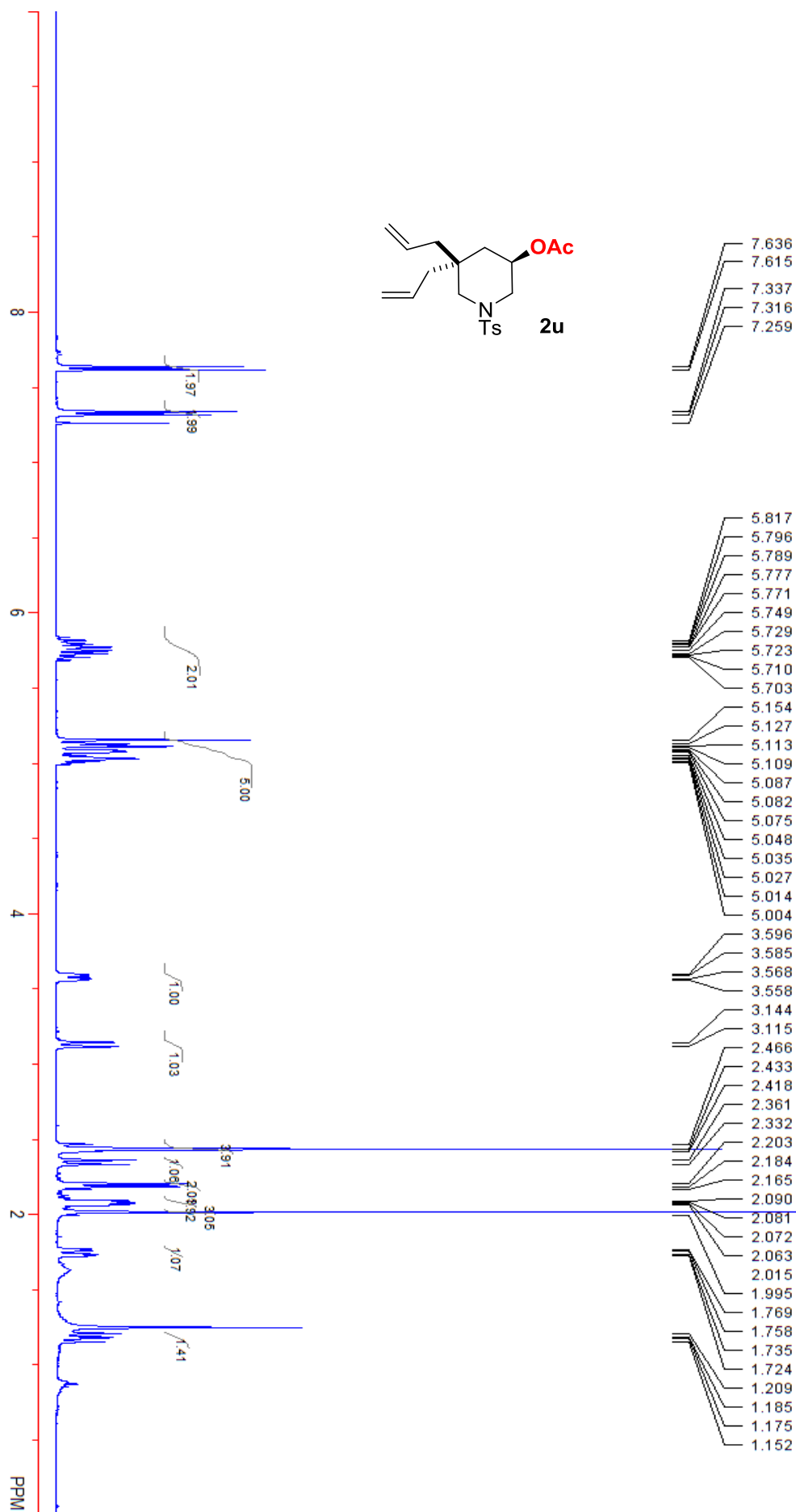
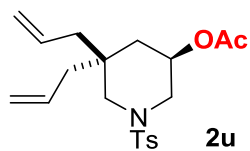


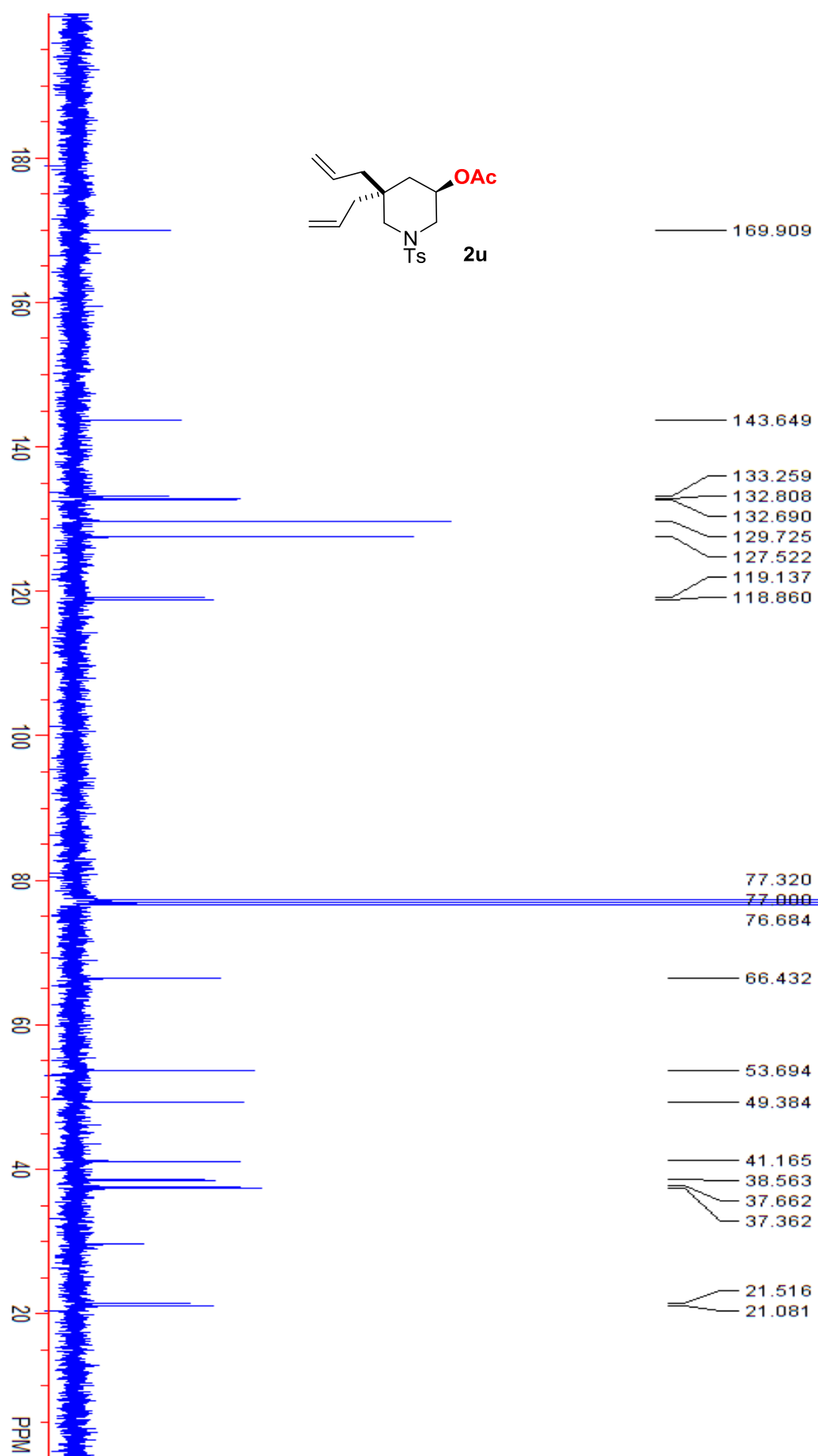


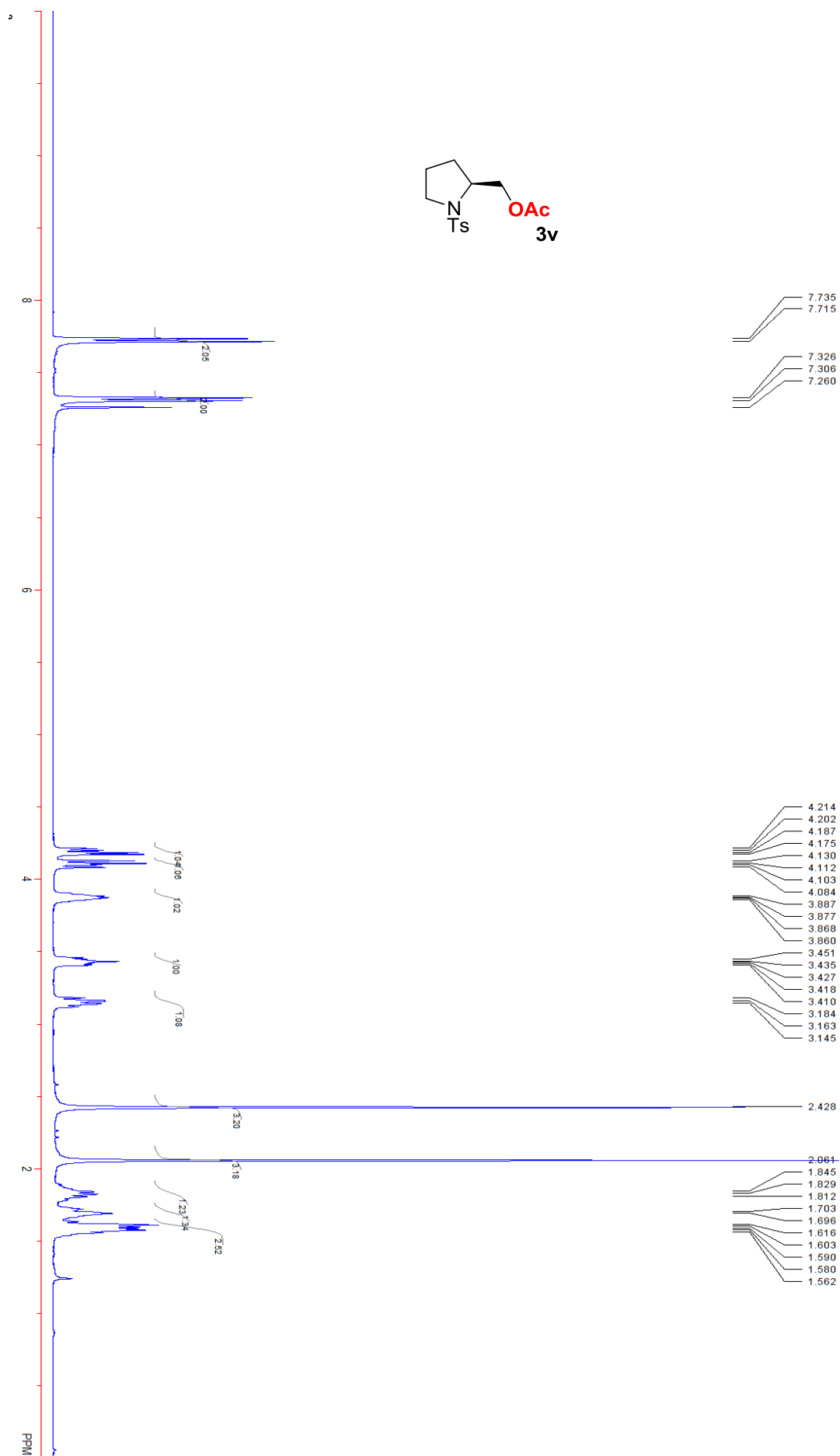
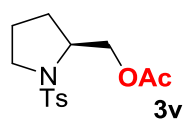


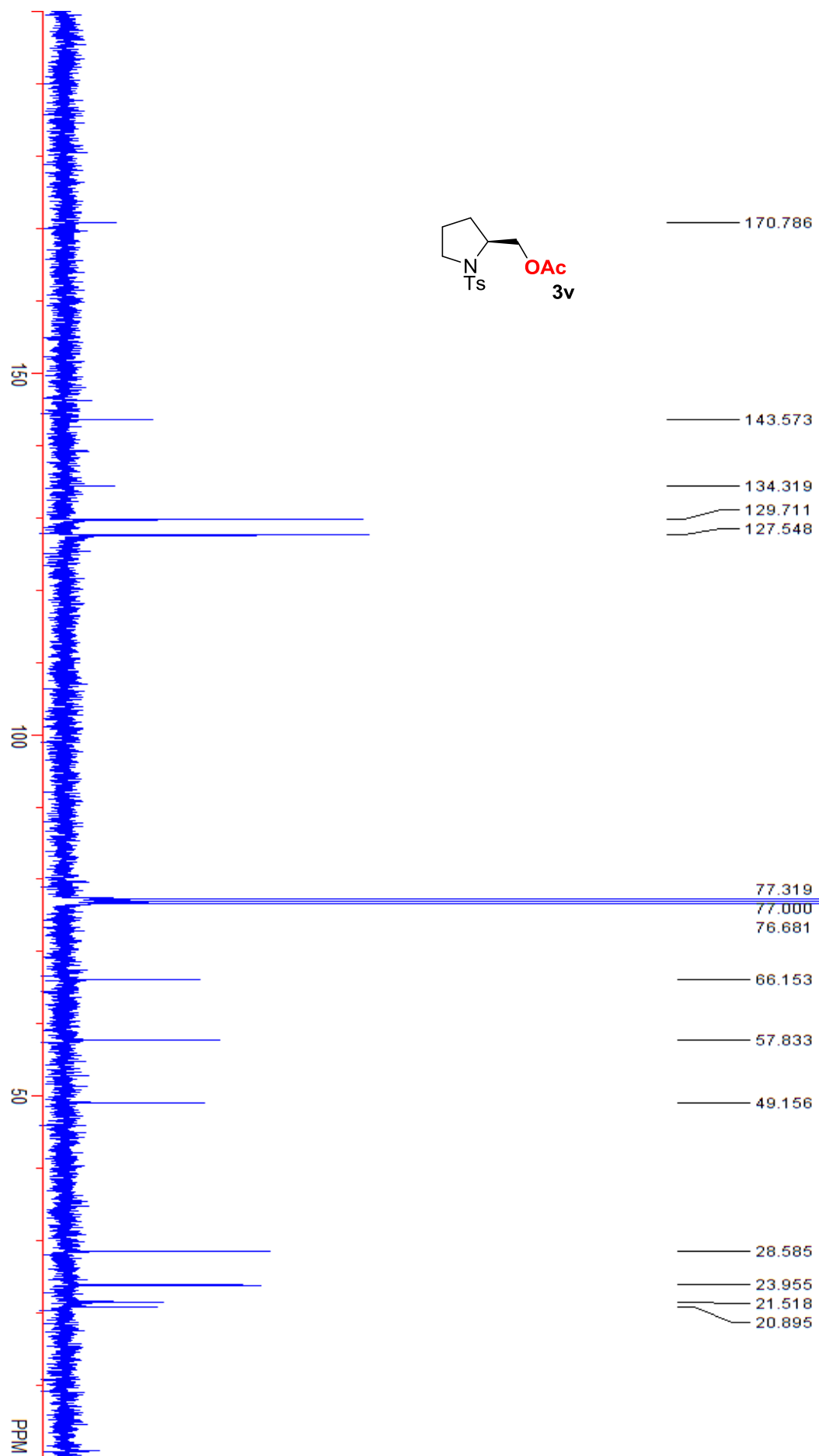


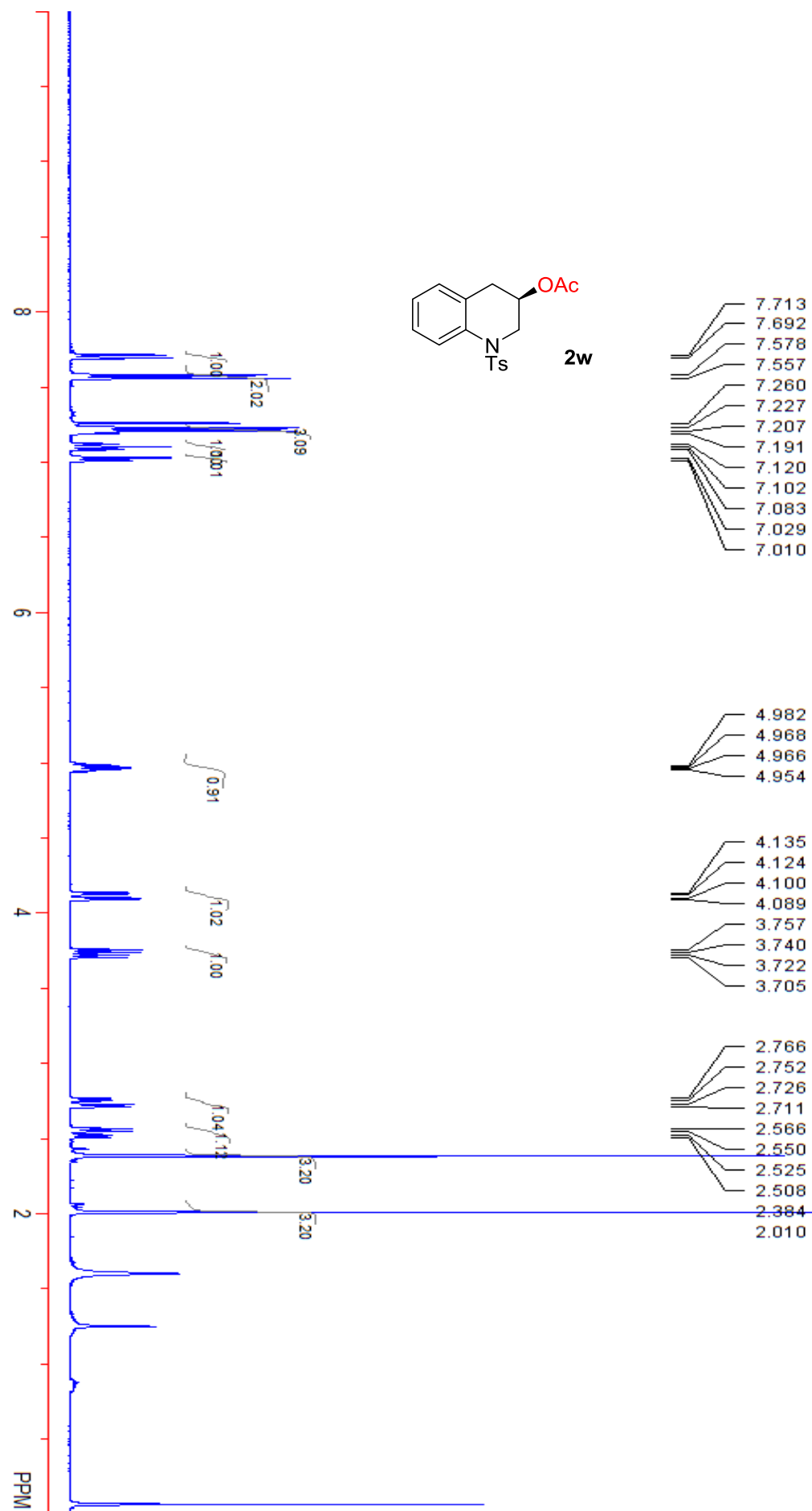


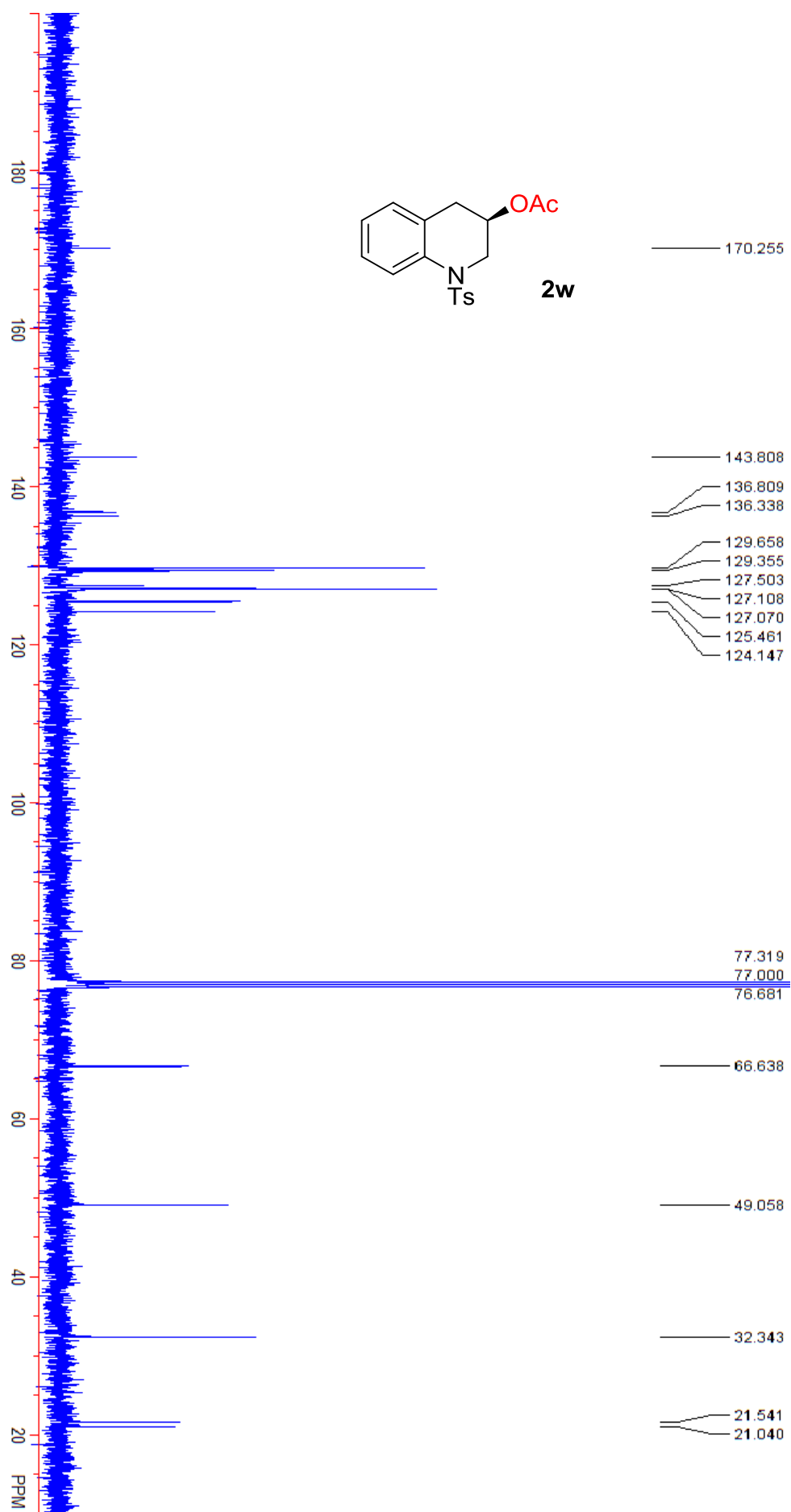


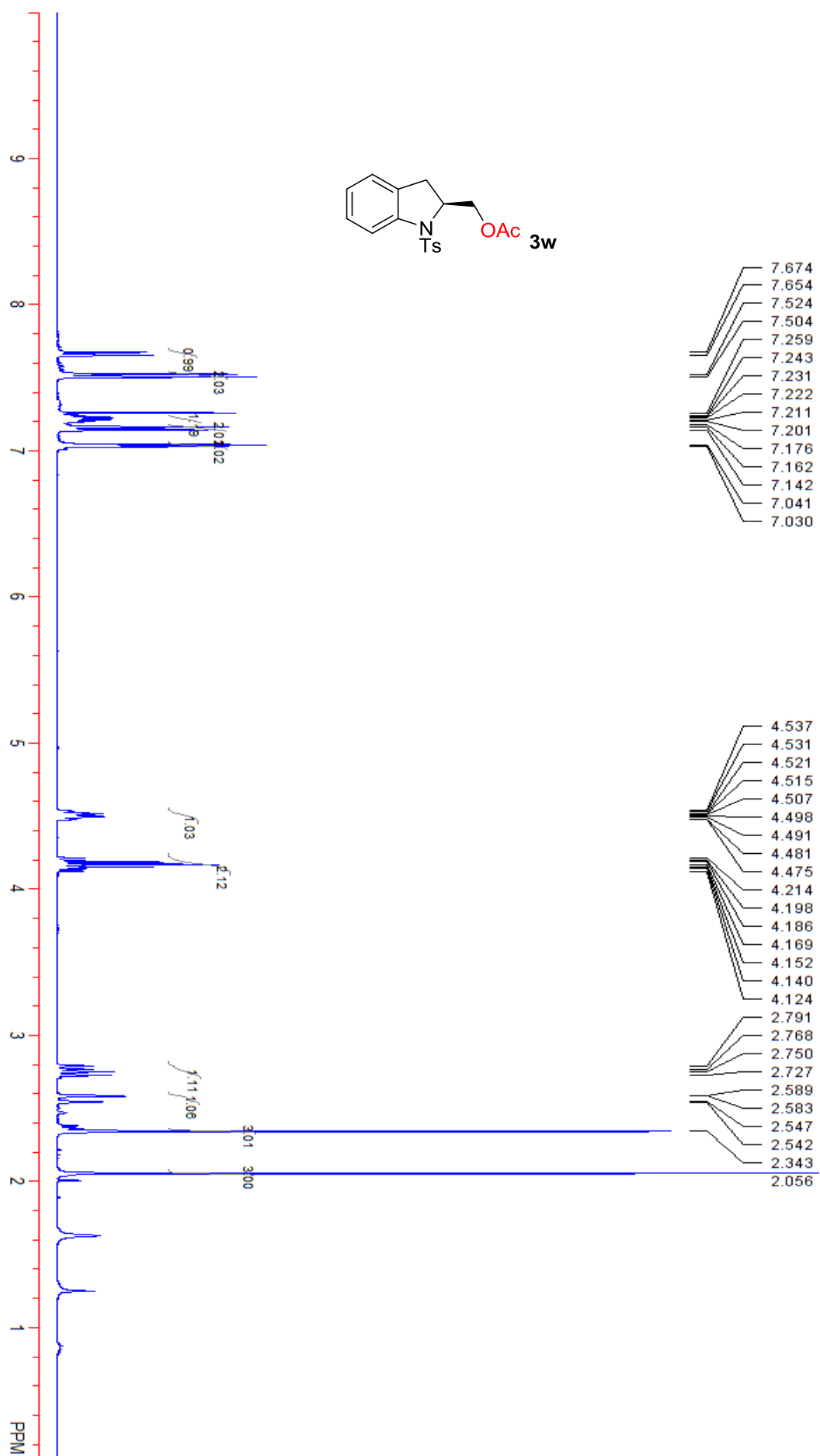
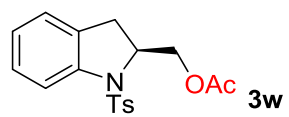


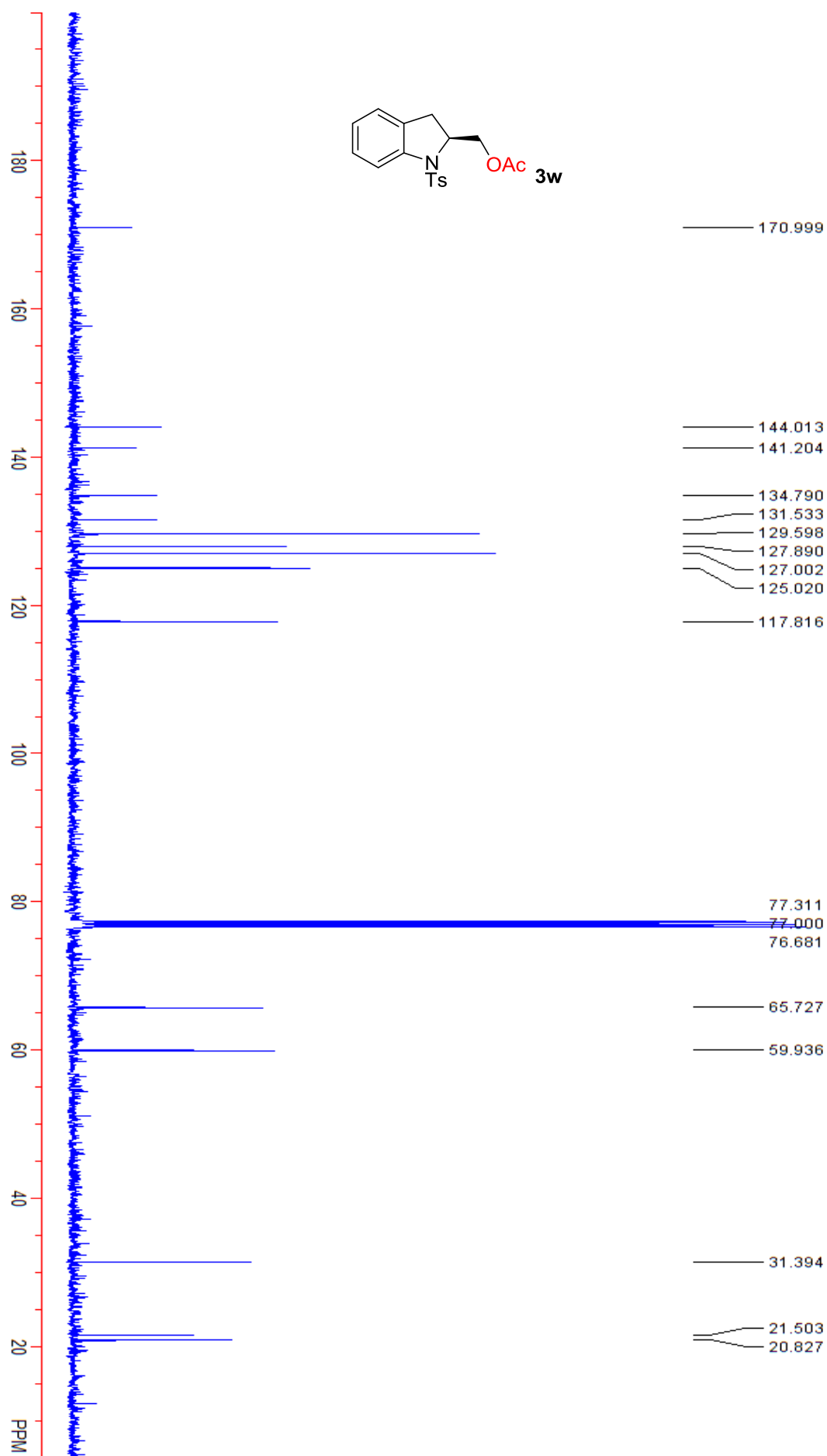
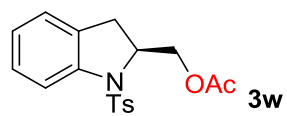


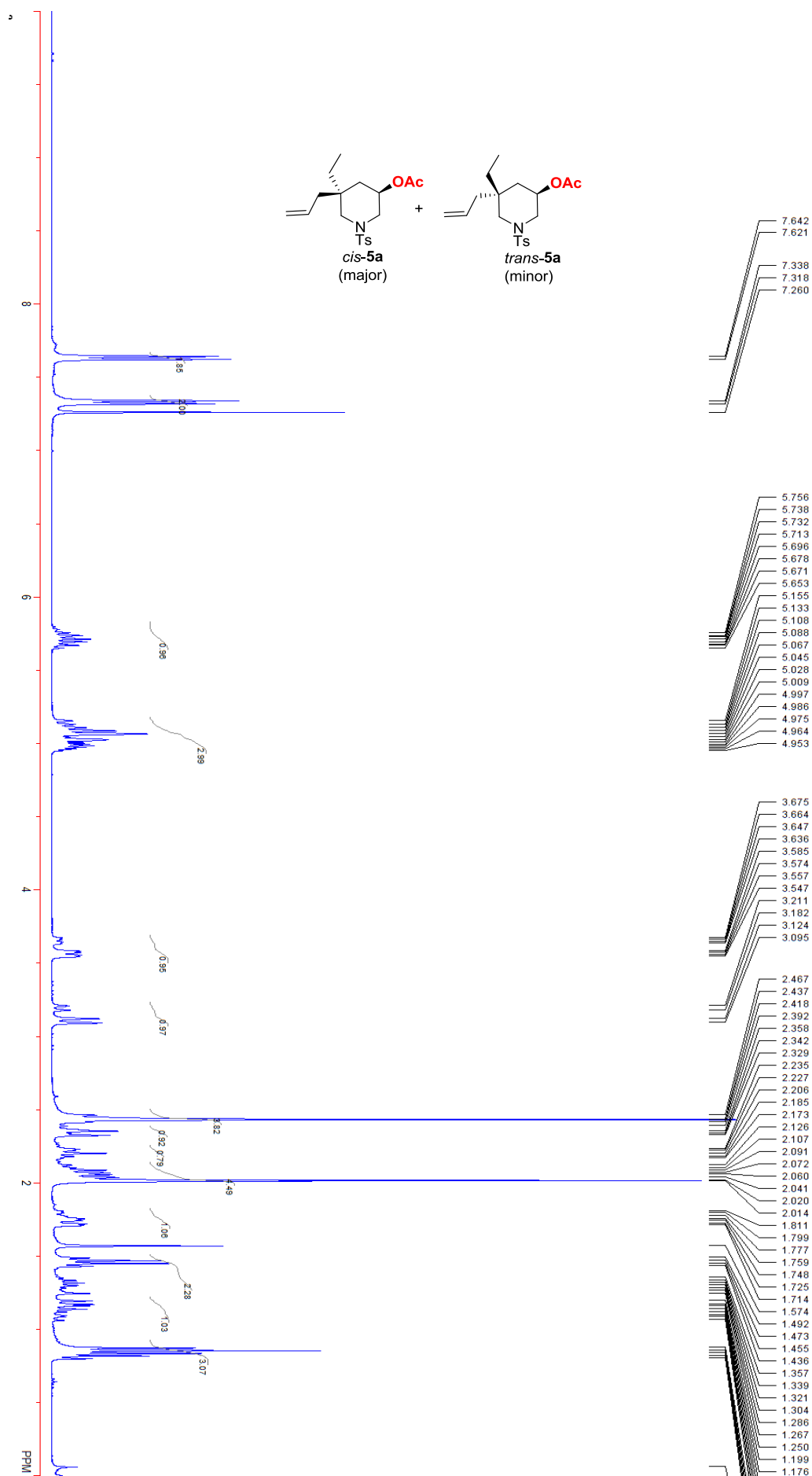


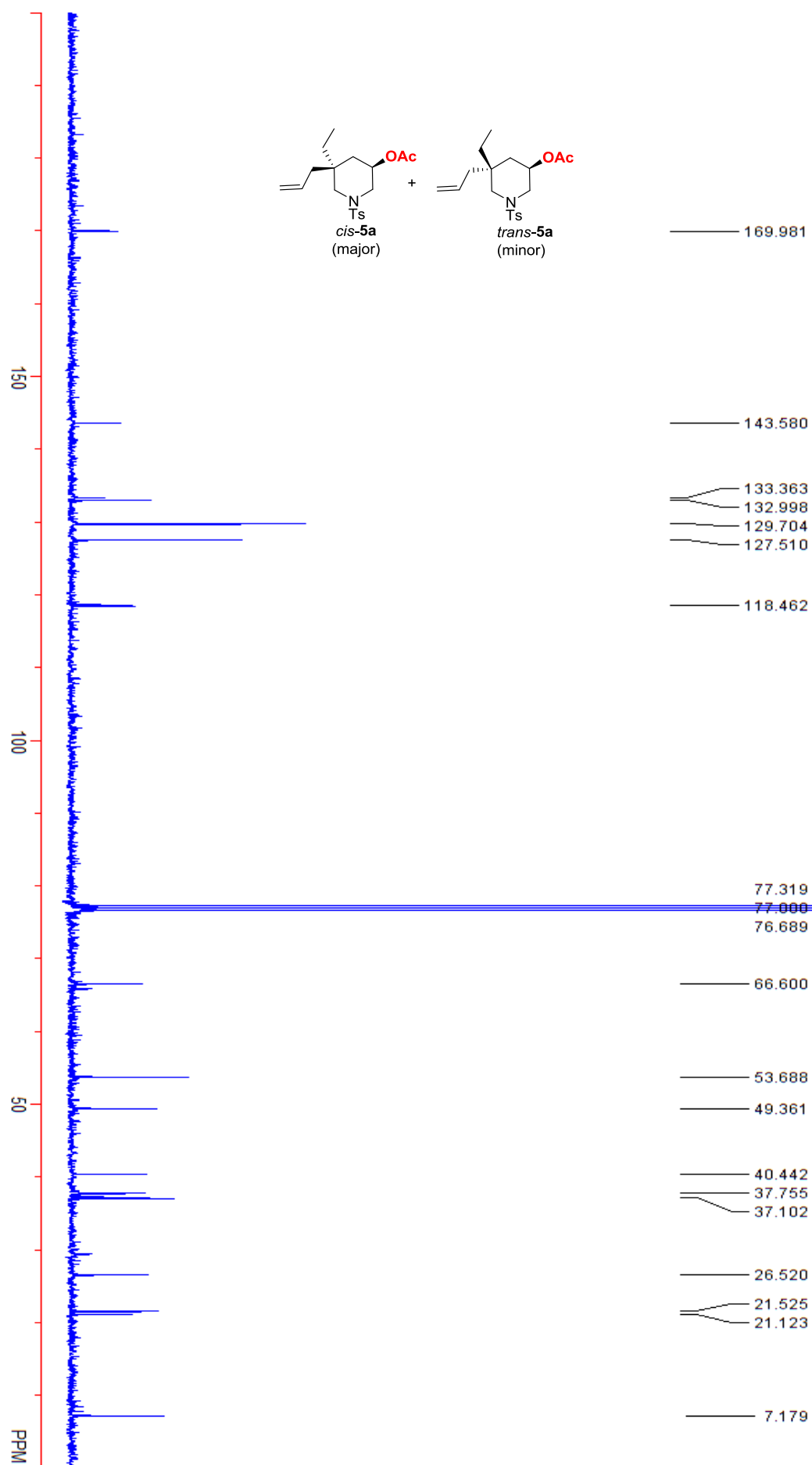


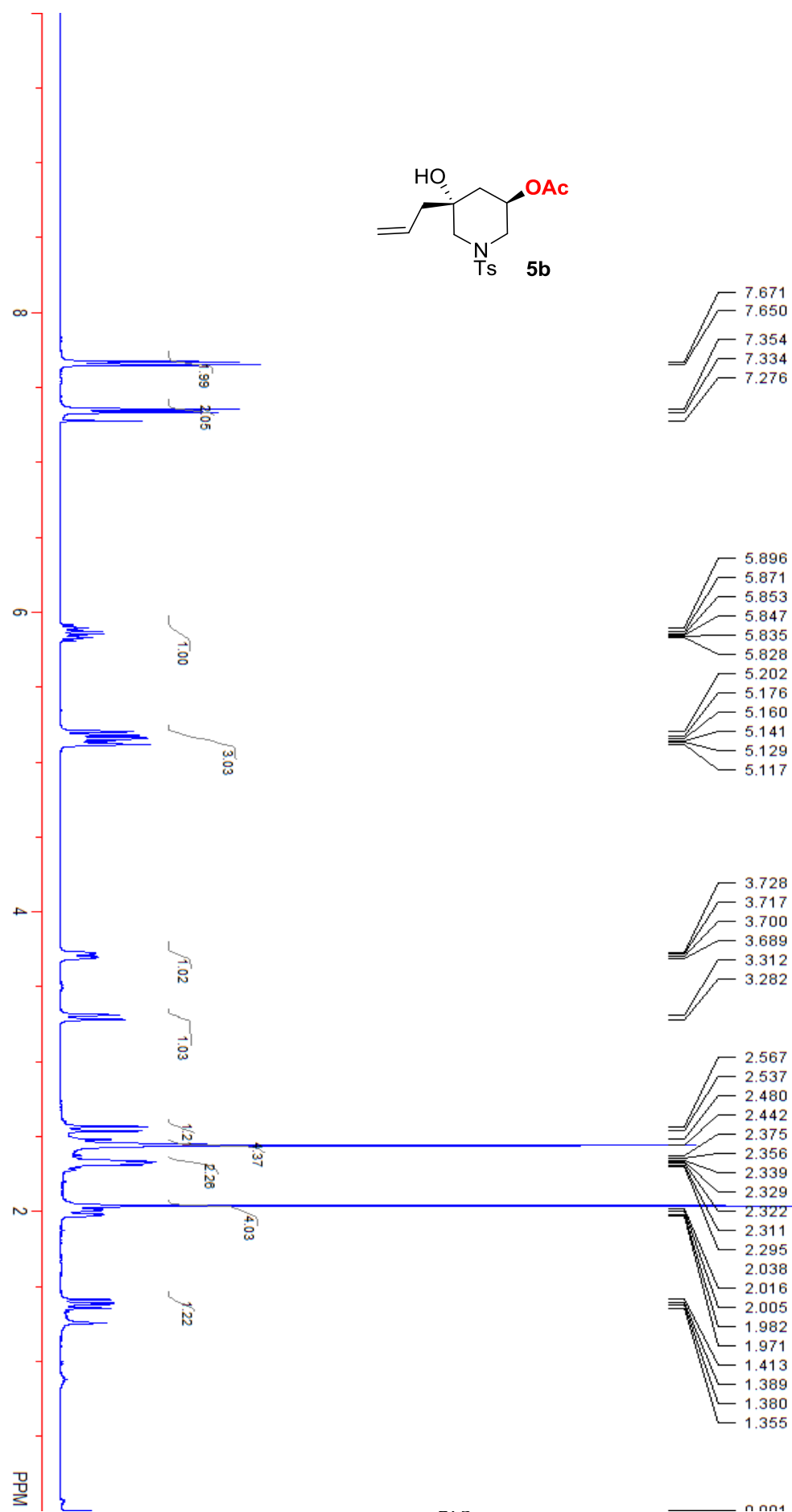
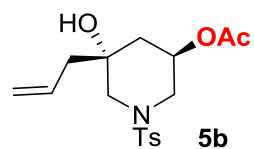


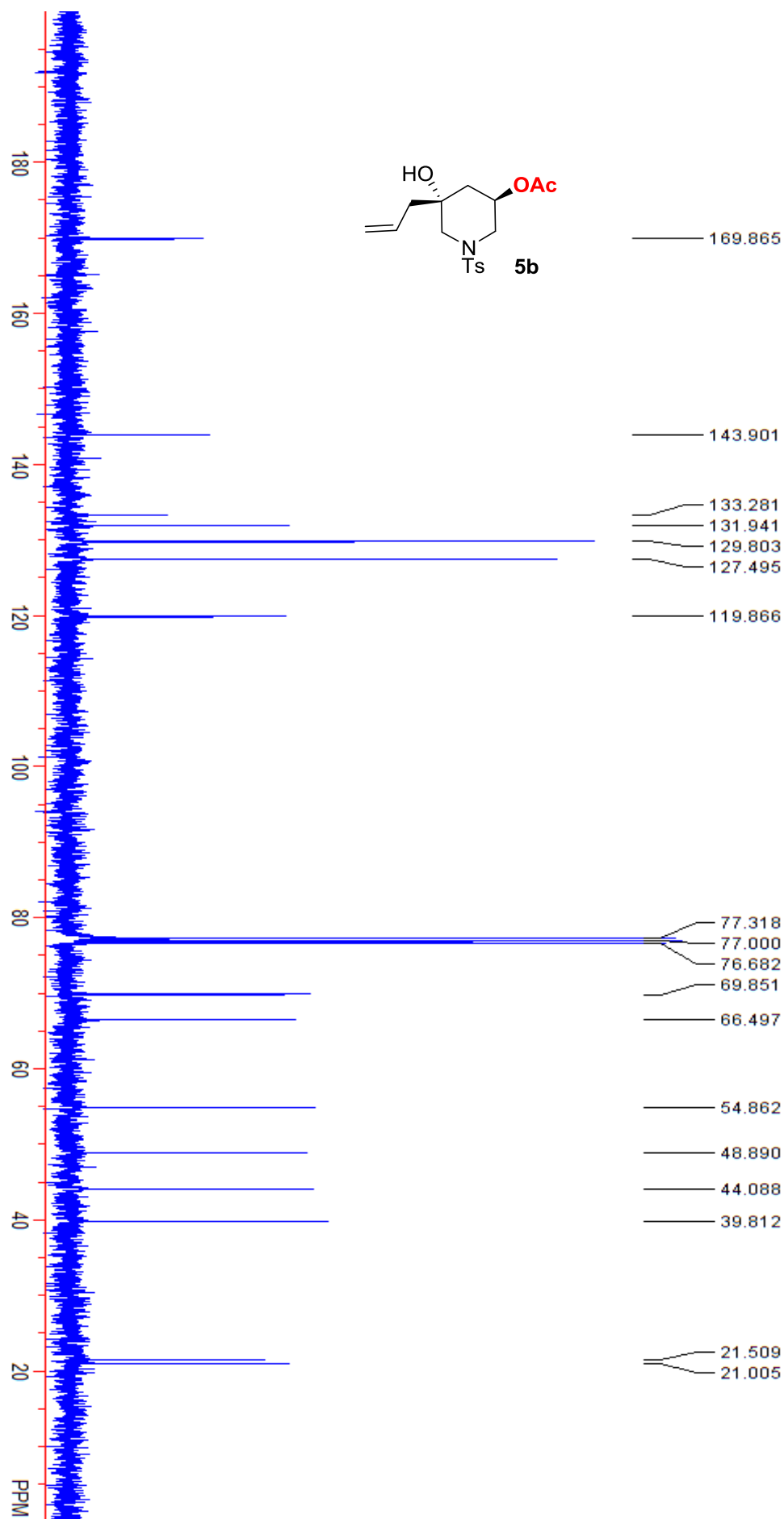


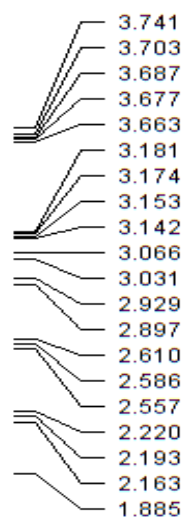
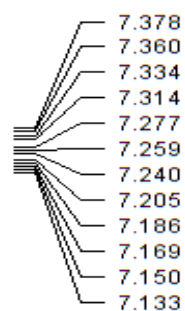
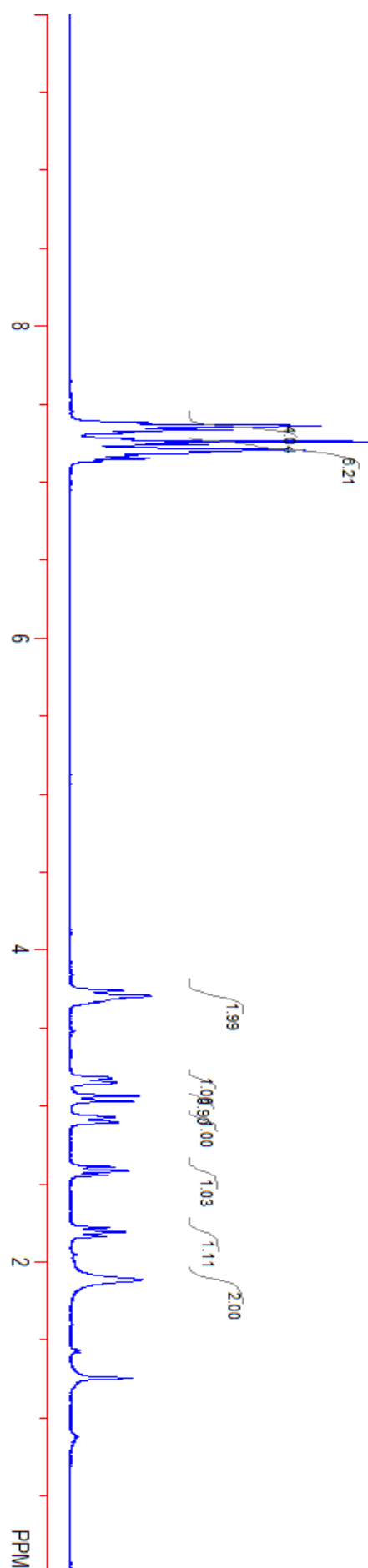
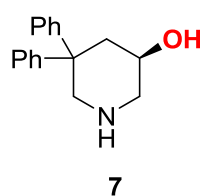


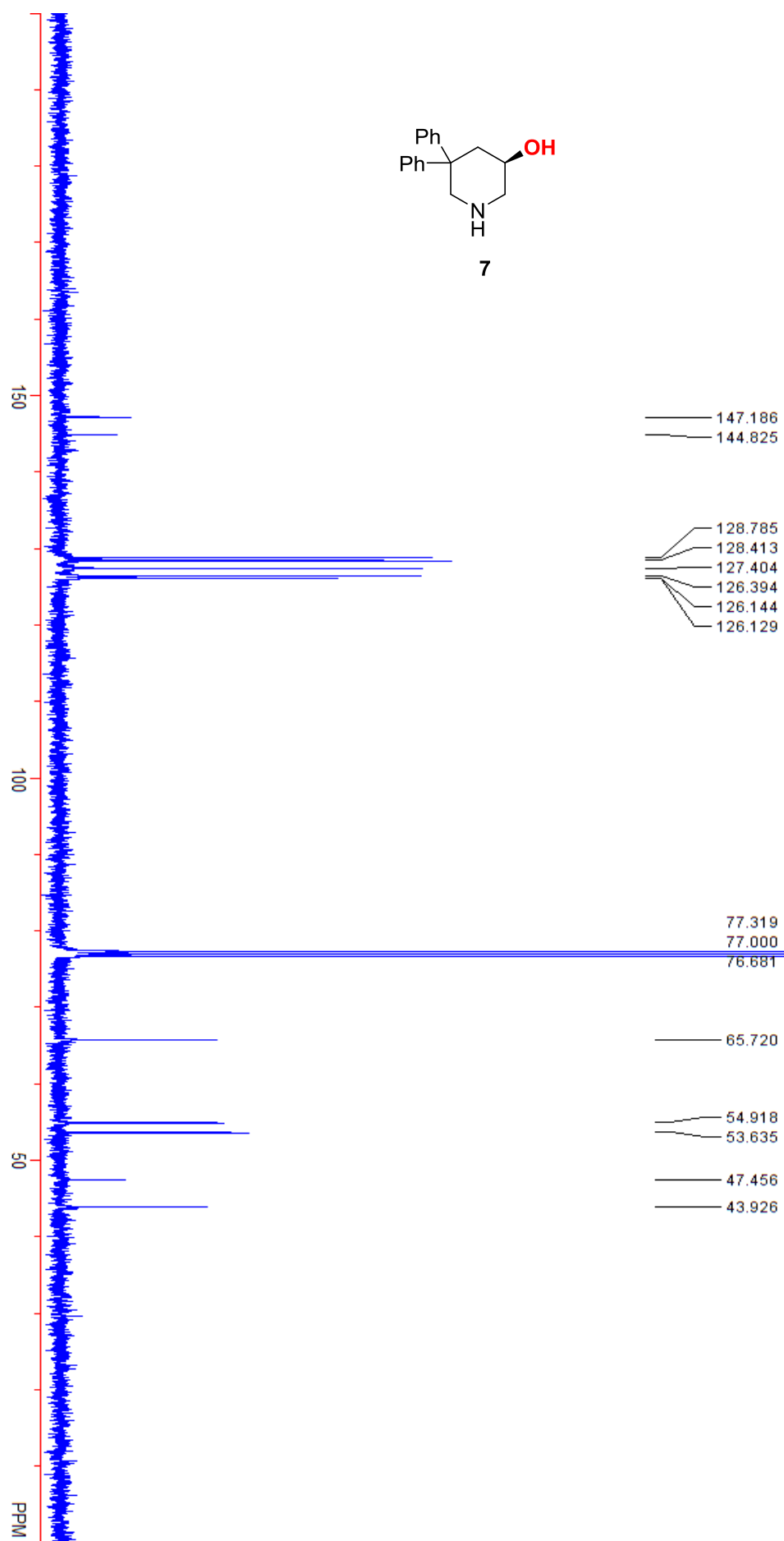
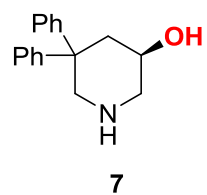


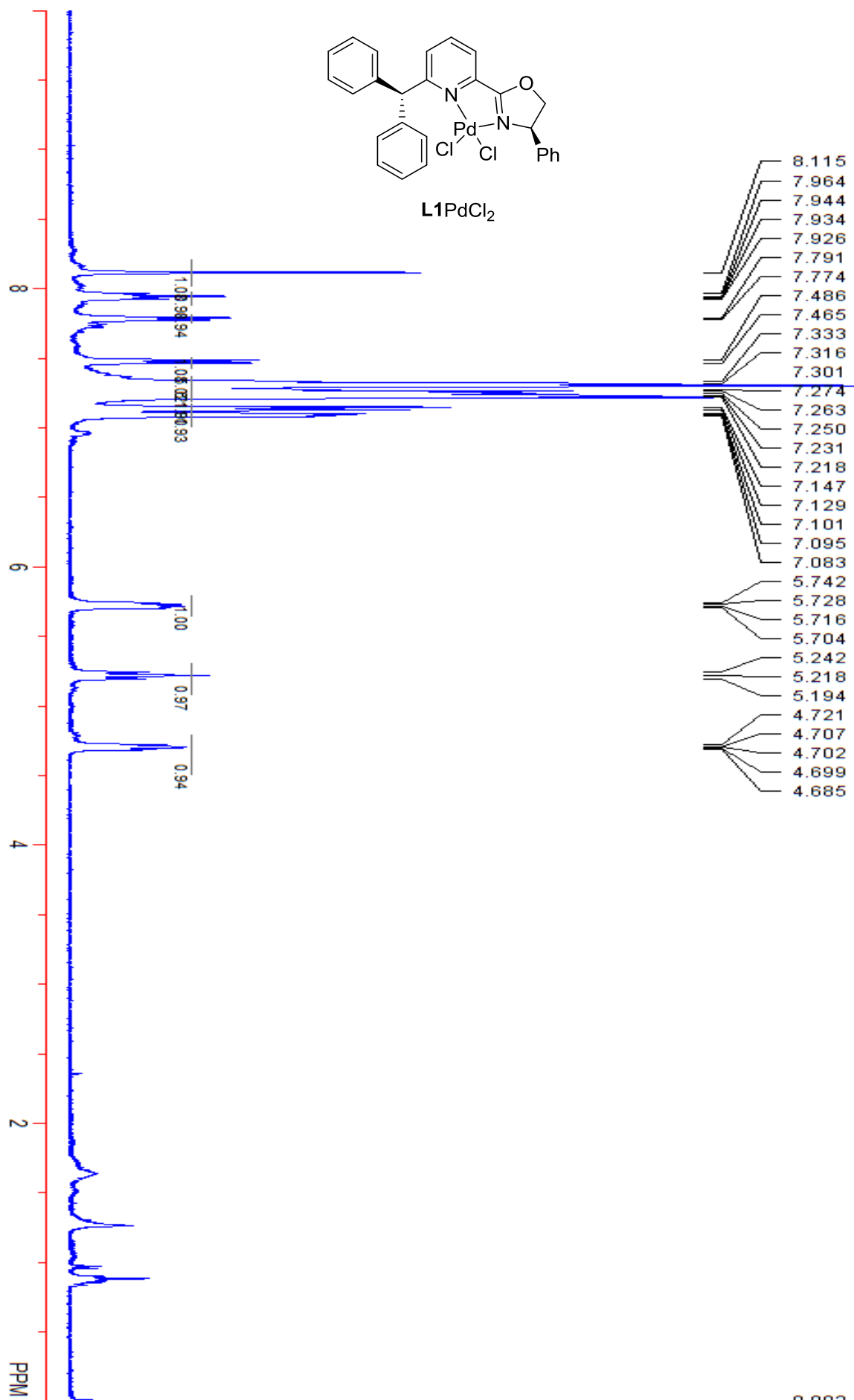


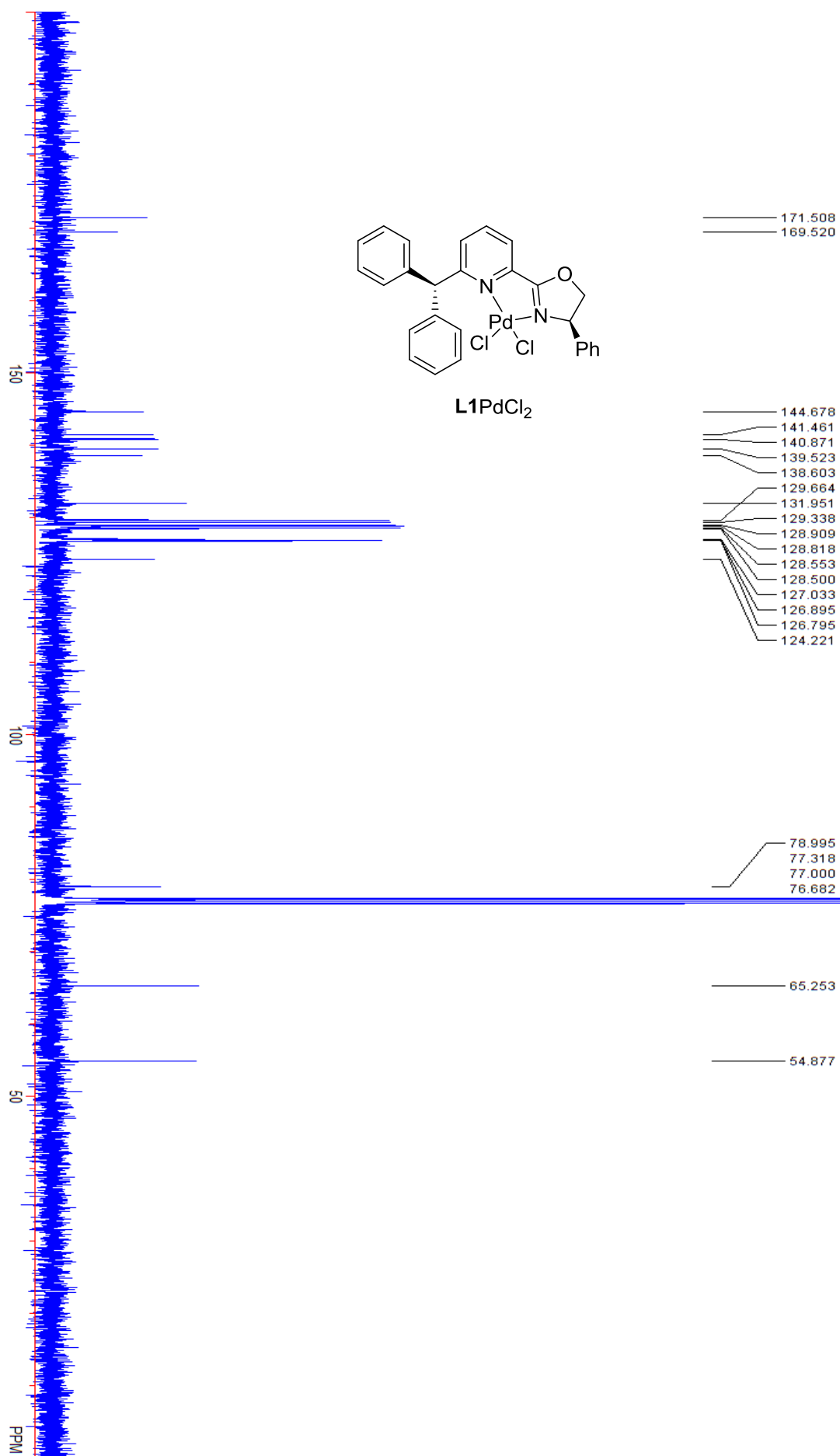




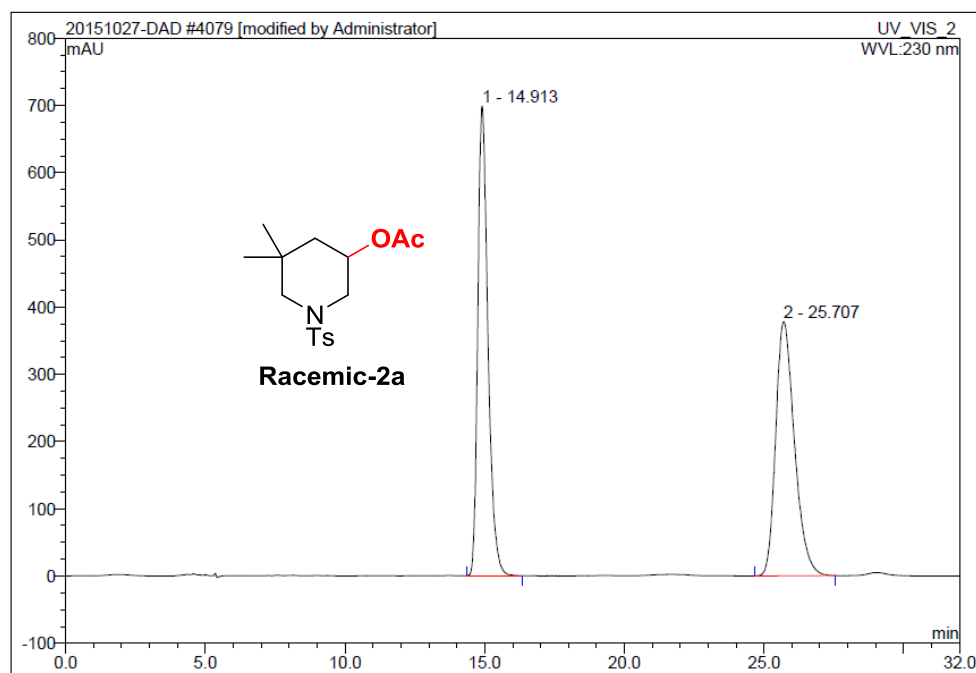




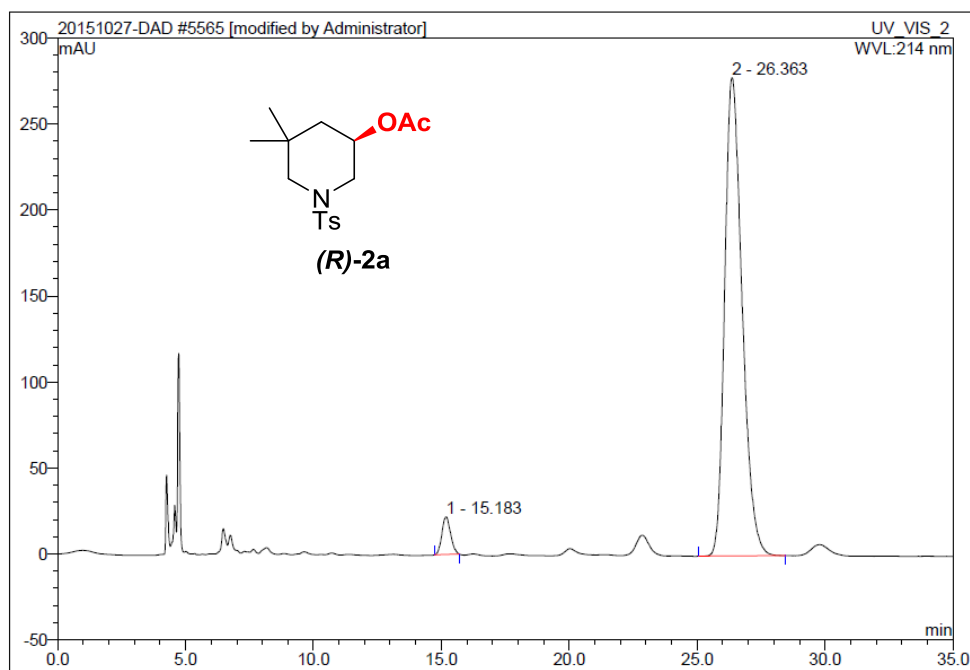




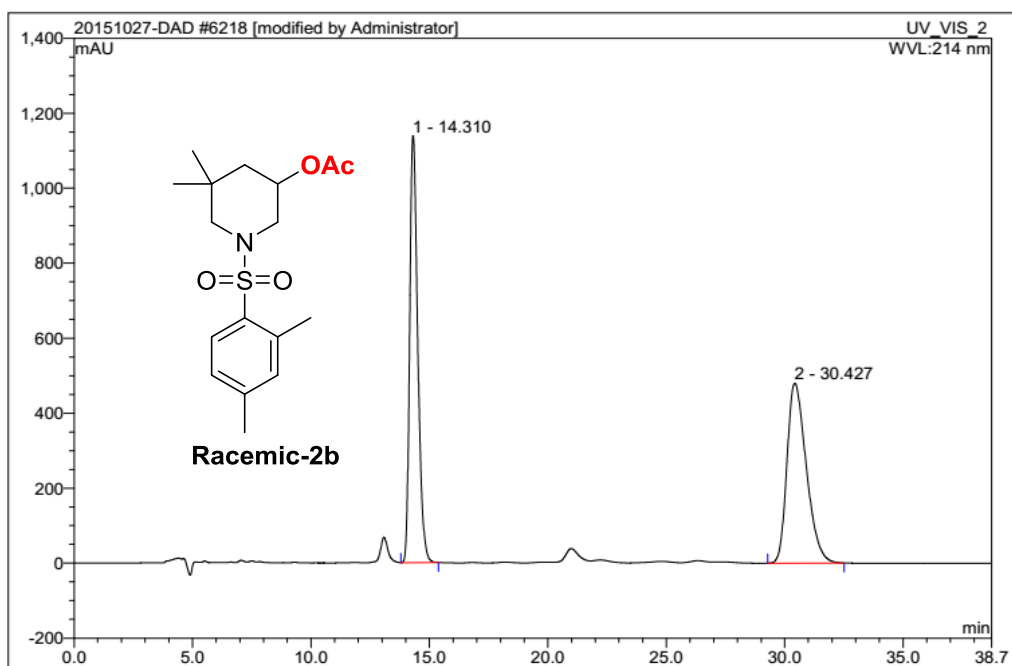
7. HPLC analysis of the Products



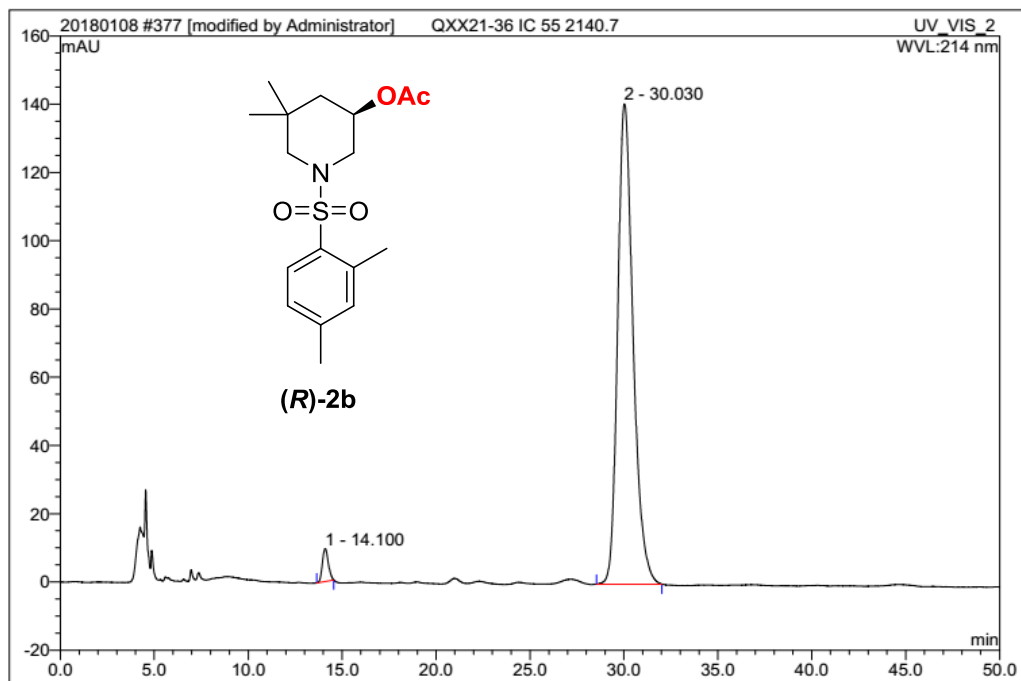
No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	14.91	n.a.	699.217	295.001	50.01	n.a.	BMB
2	25.71	n.a.	378.107	294.868	49.99	n.a.	BMB
Total:			1077.324	589.869	100.00	0.000	



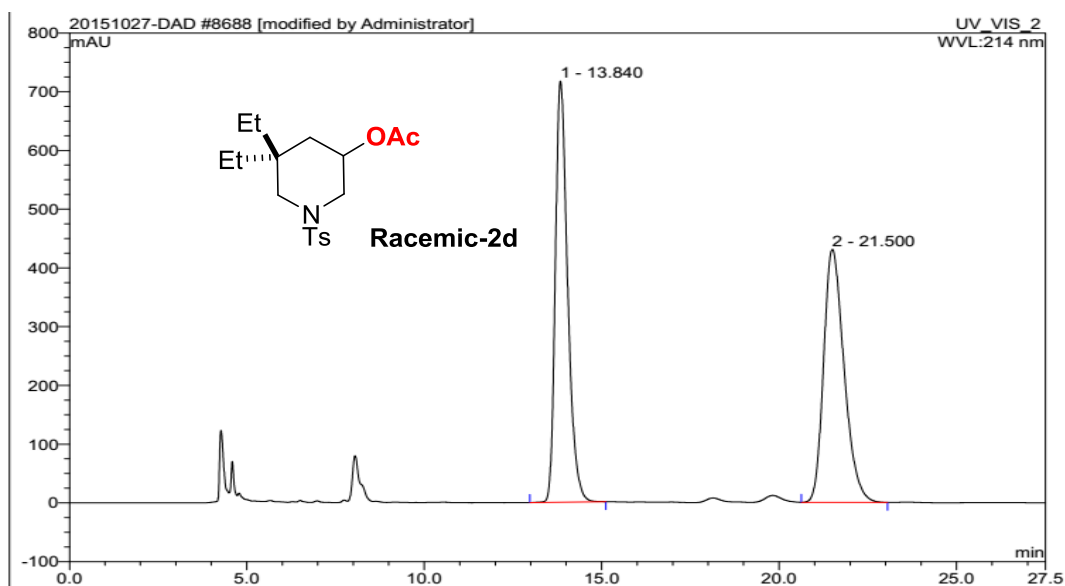
No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	15.18	n.a.	21.987	8.607	3.77	n.a.	BMB*
2	26.36	n.a.	278.007	219.737	96.23	n.a.	BMB*
Total:			299.994	228.344	100.00	0.000	



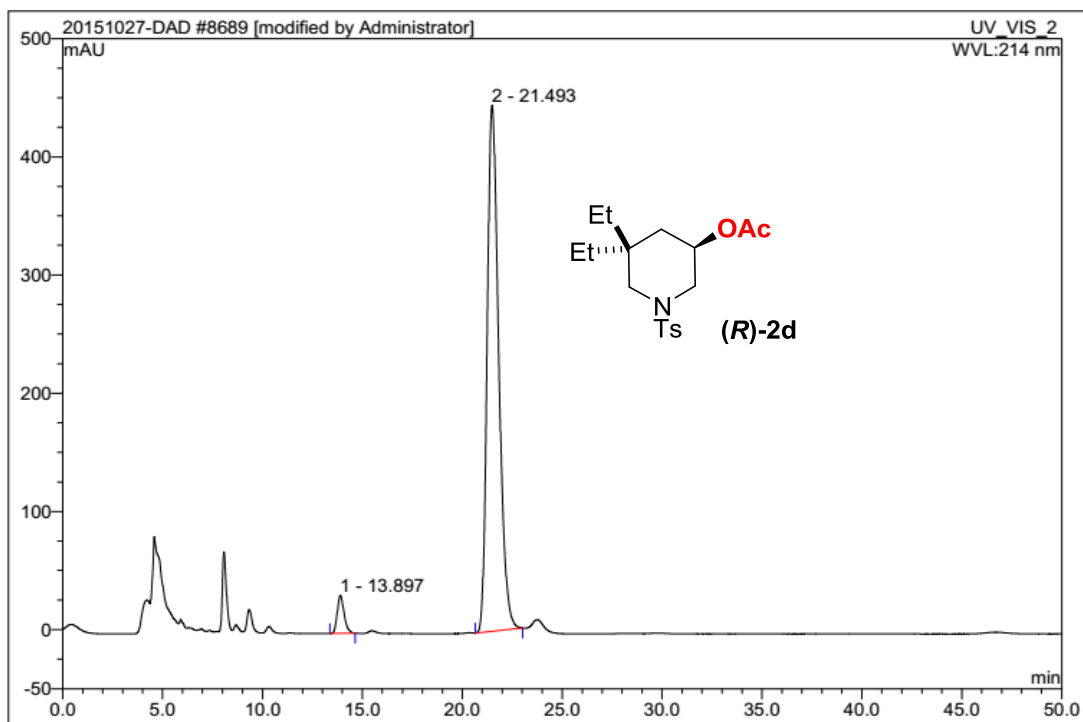
No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	14.31	n.a.	1138.889	447.805	49.65	n.a.	BMB
2	30.43	n.a.	480.213	454.056	50.35	n.a.	BMB
Total:			1619.102	901.861	100.00	0.000	



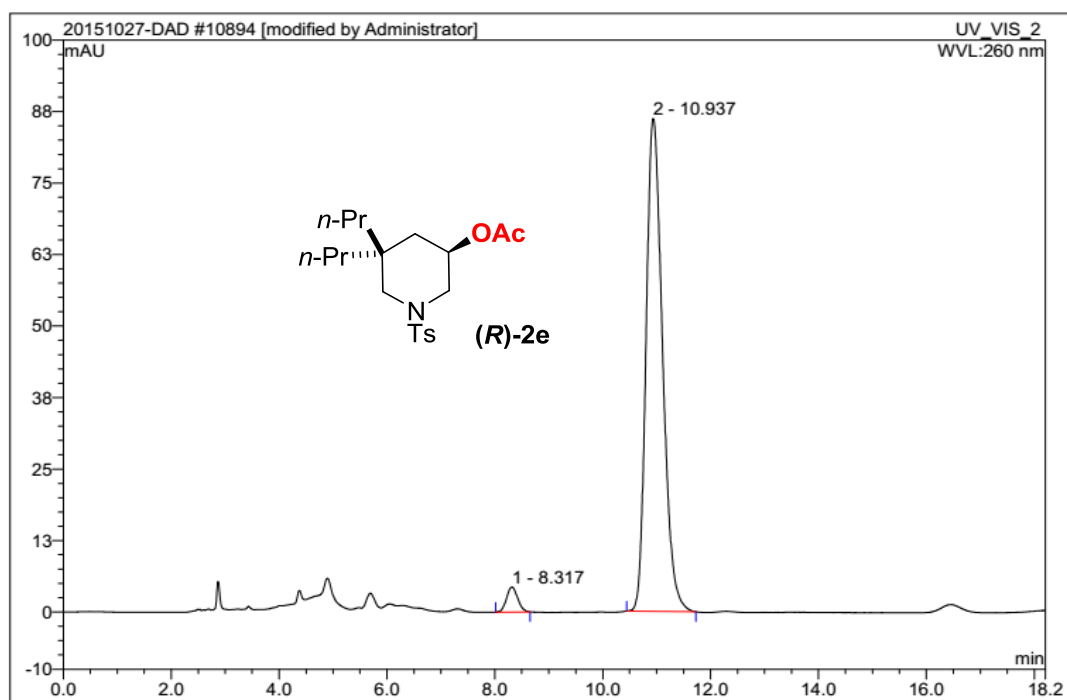
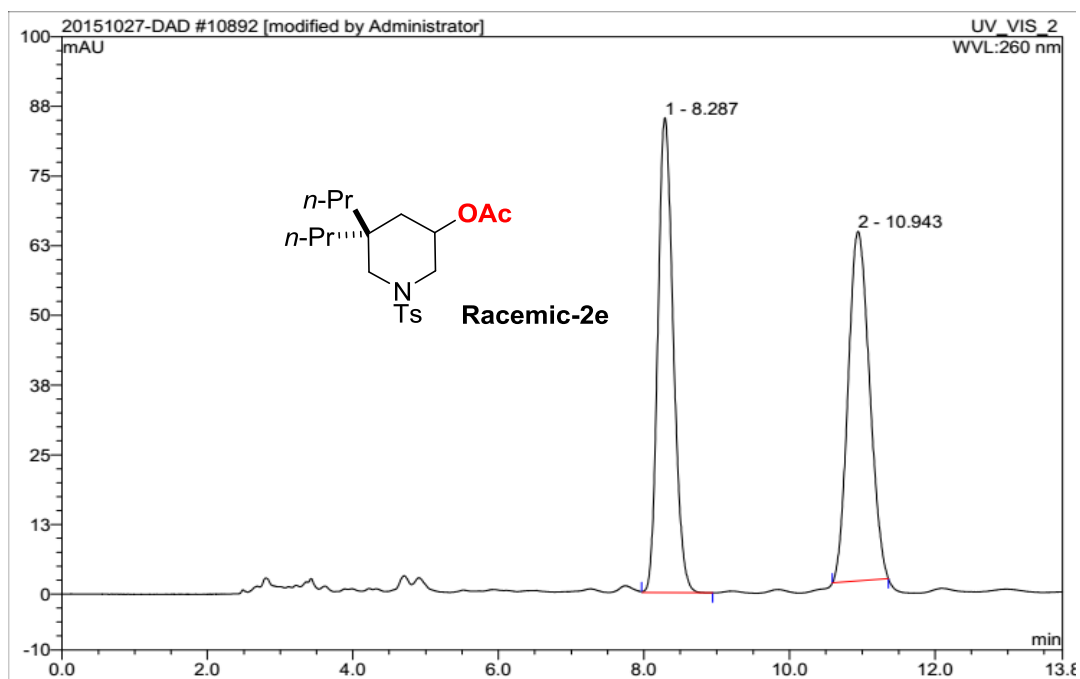
No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	14.10	n.a.	9.628	3.514	2.56	n.a.	BMB*
2	30.03	n.a.	140.799	133.970	97.44	n.a.	BMB
Total:			150.427	137.484	100.00	0.000	

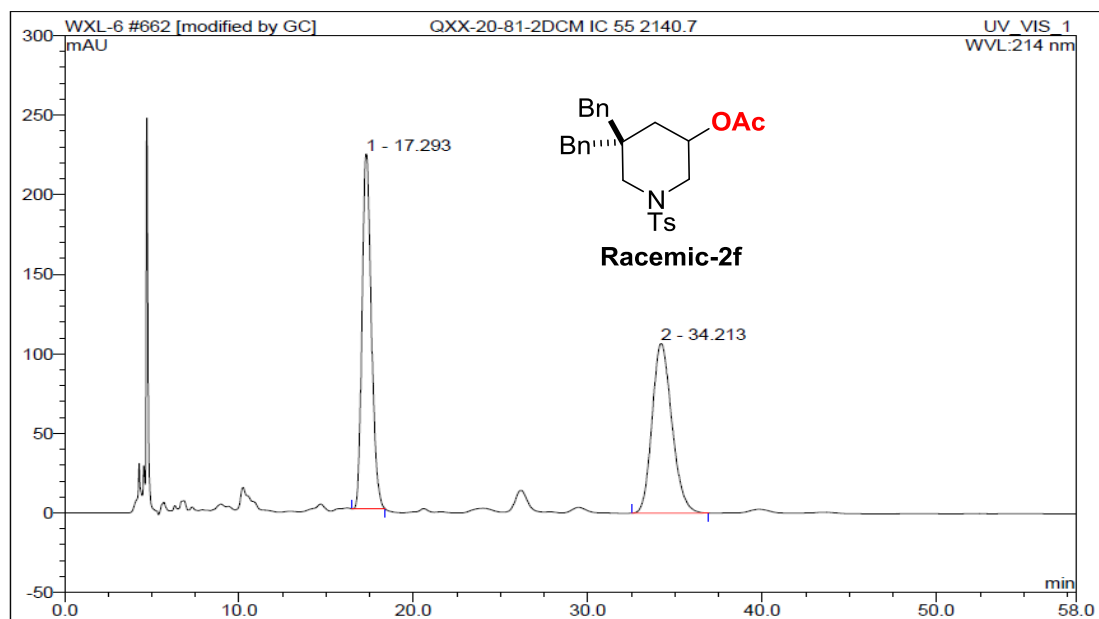


No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	13.84	n.a.	717.179	288.417	50.00	n.a.	BMB
2	21.50	n.a.	430.707	288.367	50.00	n.a.	BMB*
Total:			1147.886	576.785	100.00	0.000	

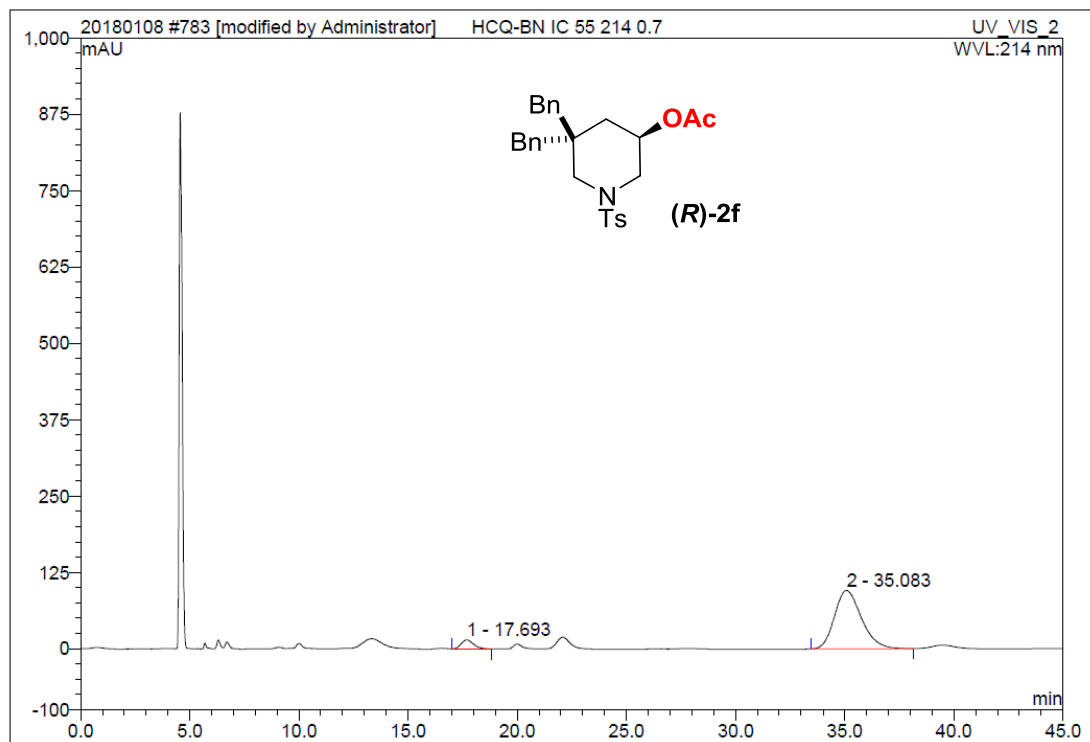


No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	13.90	n.a.	32.187	12.759	4.12	n.a.	BMB
2	21.49	n.a.	445.210	297.134	95.88	n.a.	BMB*
Total:			477.396	309.894	100.00	0.000	

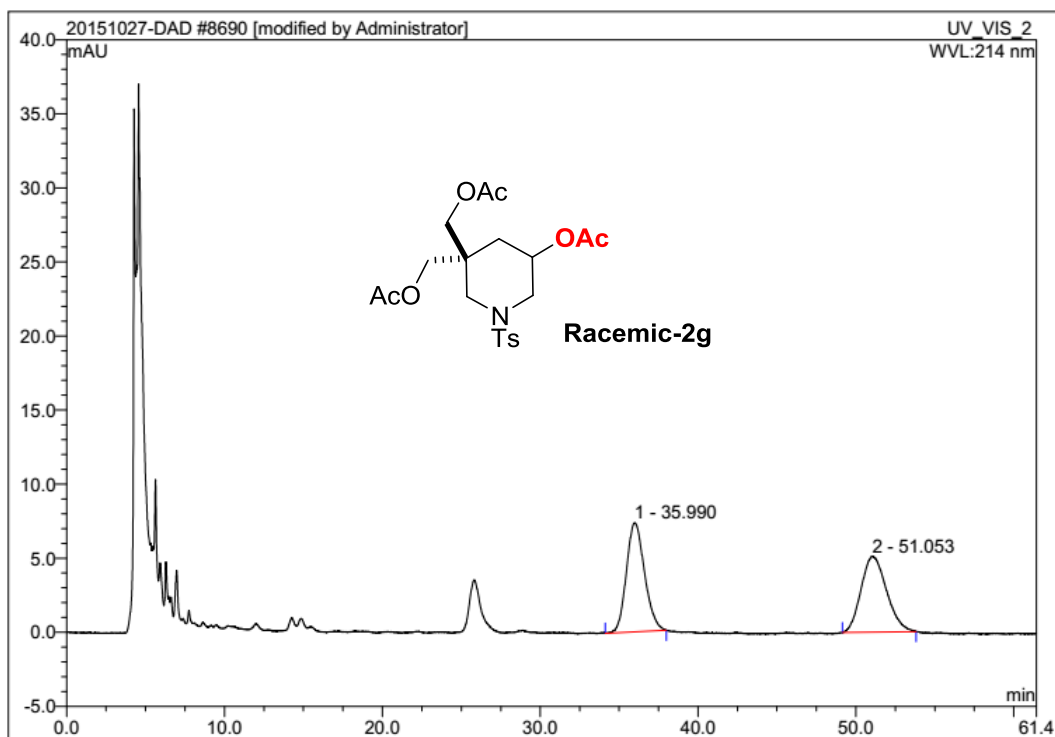




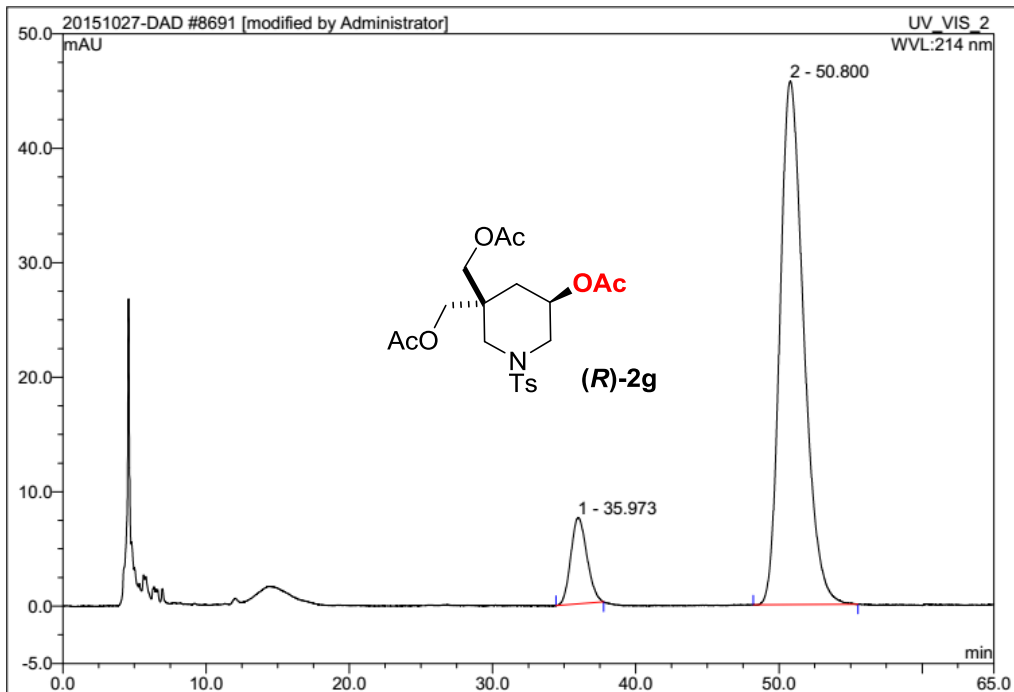
No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	17.29	n.a.	223.272	137.934	49.44	n.a.	BMB*
2	34.21	n.a.	106.596	141.076	50.56	n.a.	BMB*
Total:			329.868	279.010	100.00	0.000	



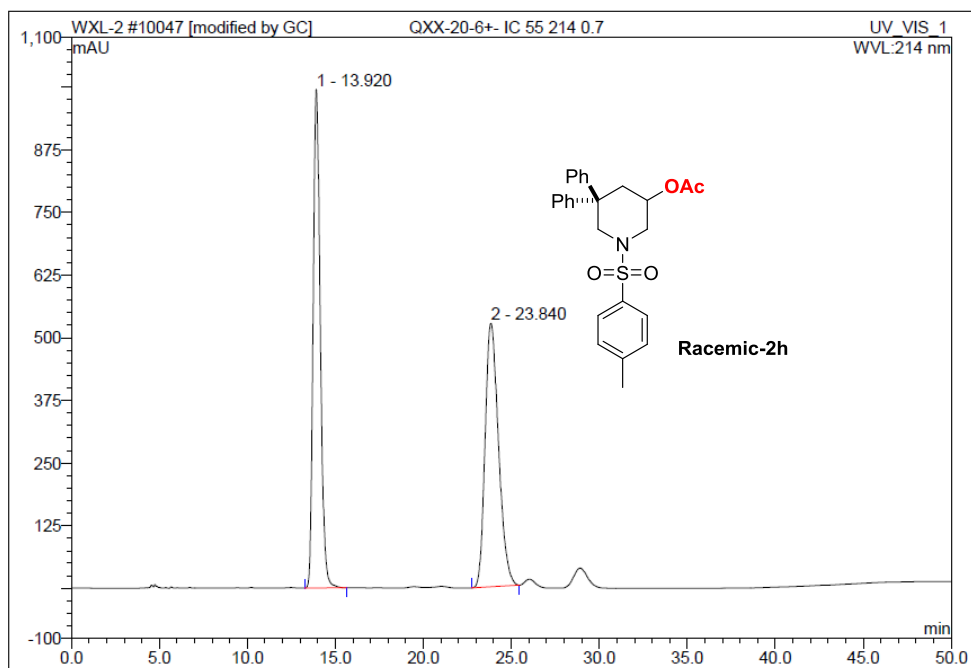
No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	17.69	n.a.	14.741	9.718	6.63	n.a.	BMB
2	35.08	n.a.	95.476	136.778	93.37	n.a.	BMB*
Total:			110.217	146.495	100.00	0.000	



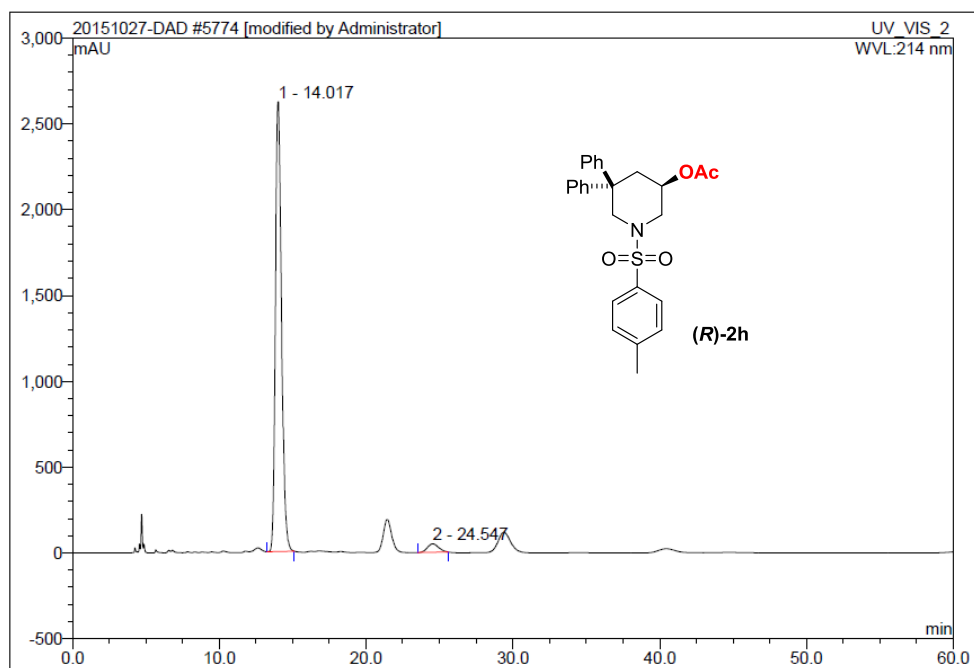
No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	35.99	n.a.	7.385	9.843	50.63	n.a.	BMB*
2	51.05	n.a.	5.148	9.597	49.37	n.a.	BMB*
Total:			12.533	19.440	100.00	0.000	



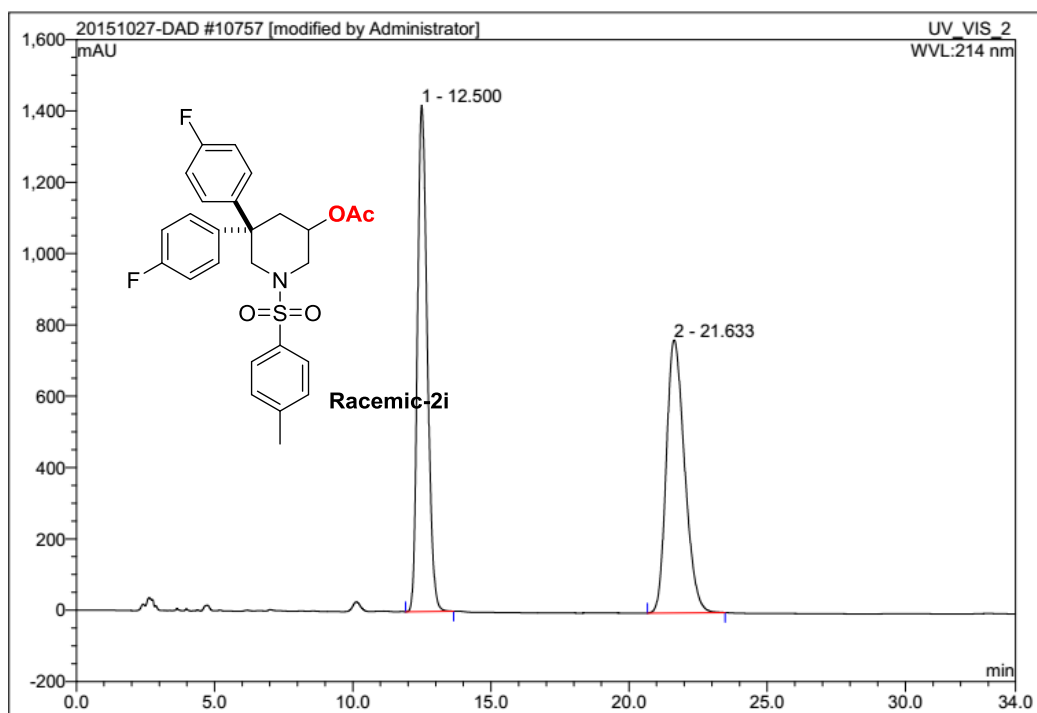
No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	35.97	n.a.	7.565	9.848	10.09	n.a.	BMB*
2	50.80	n.a.	45.727	87.706	89.91	n.a.	BMB*
Total:			53.291	97.555	100.00	0.000	



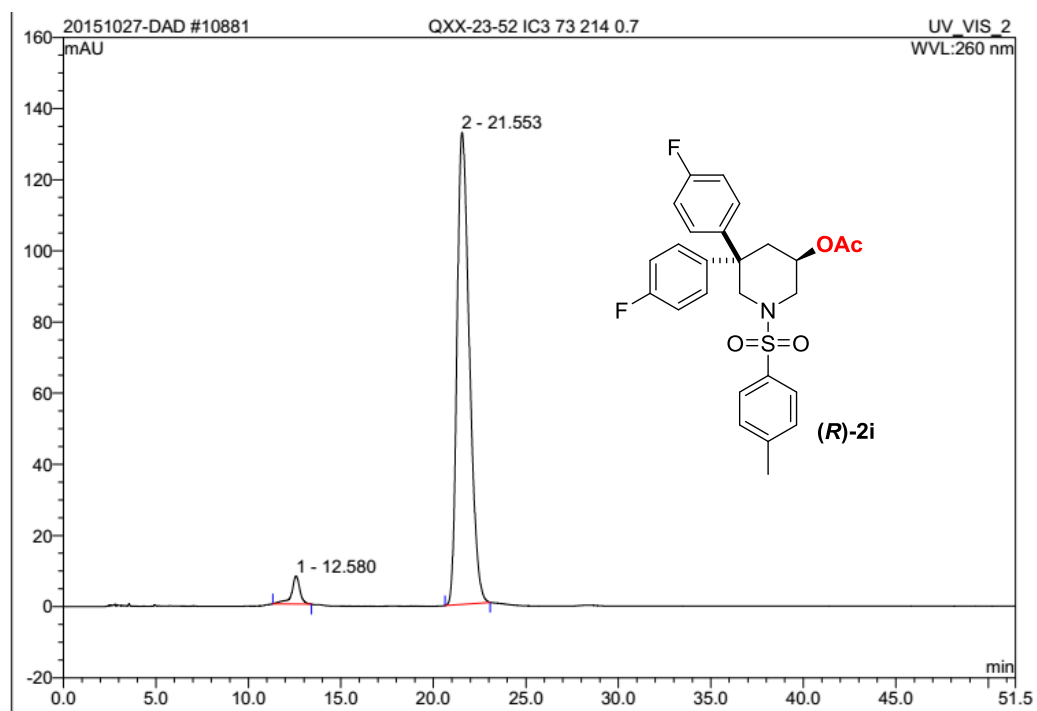
No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	13.92	n.a.	994.974	468.872	50.17	n.a.	BMB
2	23.84	n.a.	526.005	465.631	49.83	n.a.	BMB*
Total:			1520.979	934.503	100.00	0.000	



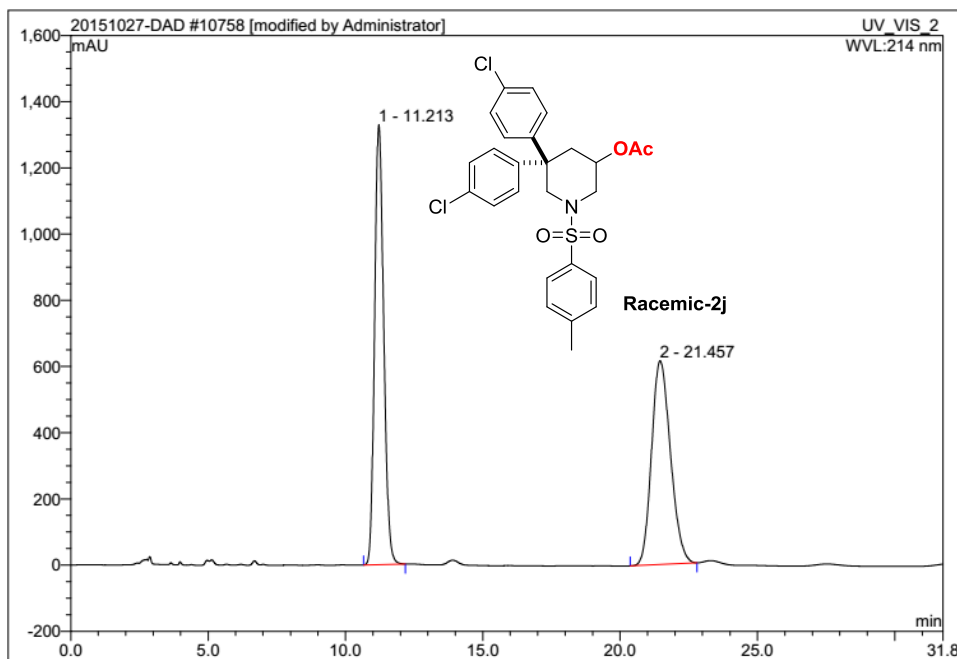
No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	14.02	n.a.	2622.190	1265.543	96.69	n.a.	BMB*
2	24.55	n.a.	48.878	43.371	3.31	n.a.	BMB*
Total:			2671.068	1308.914	100.00	0.000	



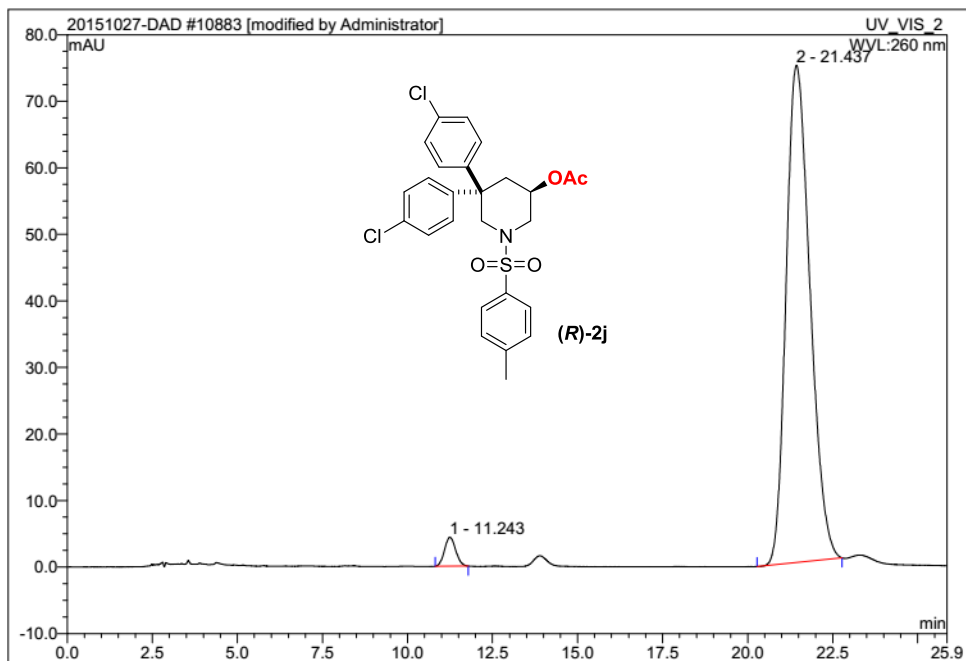
No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	12.50	n.a.	1419.323	584.383	49.85	n.a.	BMB
2	21.63	n.a.	765.166	587.855	50.15	n.a.	BMB
Total:			2184.489	1172.239	100.00	0.000	



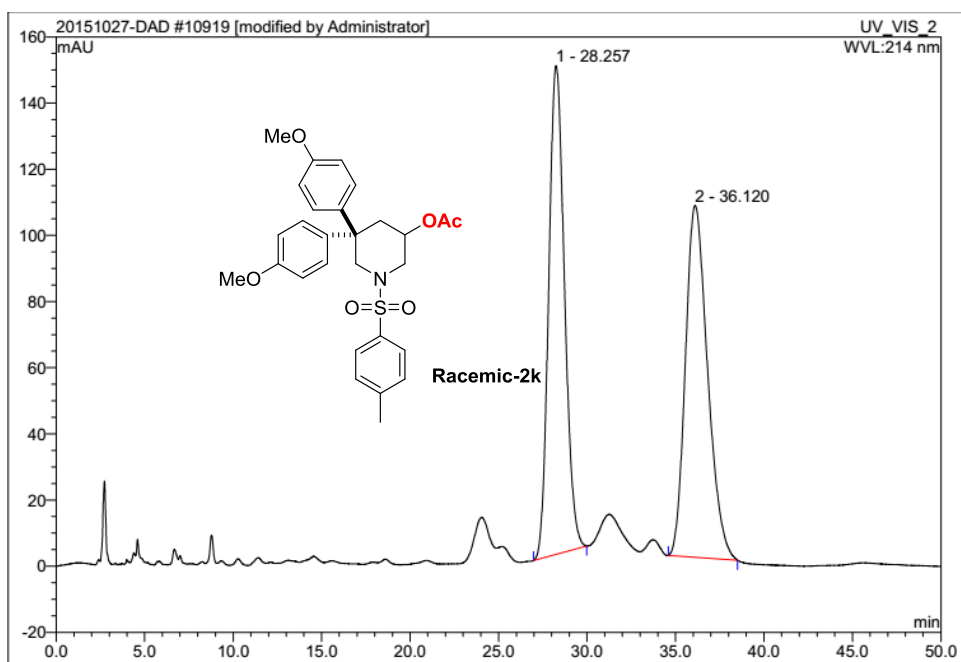
No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	12.58	n.a.	7.892	4.182	3.91	n.a.	BMB
2	21.55	n.a.	132.756	102.856	96.09	n.a.	BMB
Total:			140.649	107.038	100.00	0.000	



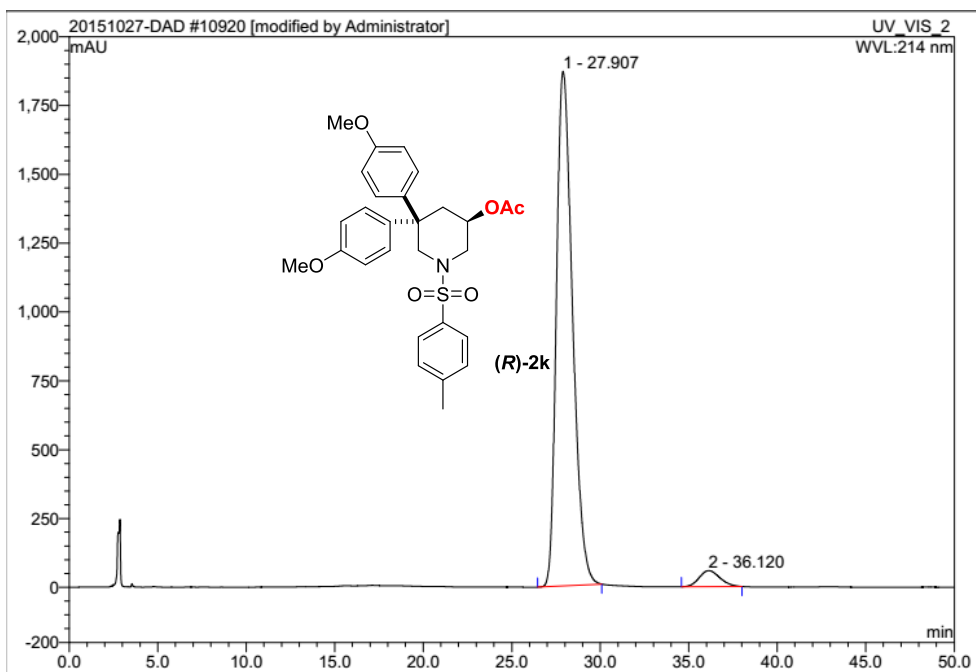
No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	11.21	n.a.	1328.080	510.047	50.95	n.a.	BMB*
2	21.46	n.a.	615.876	491.048	49.05	n.a.	BMB*
Total:			1943.956	1001.095	100.00	0.000	



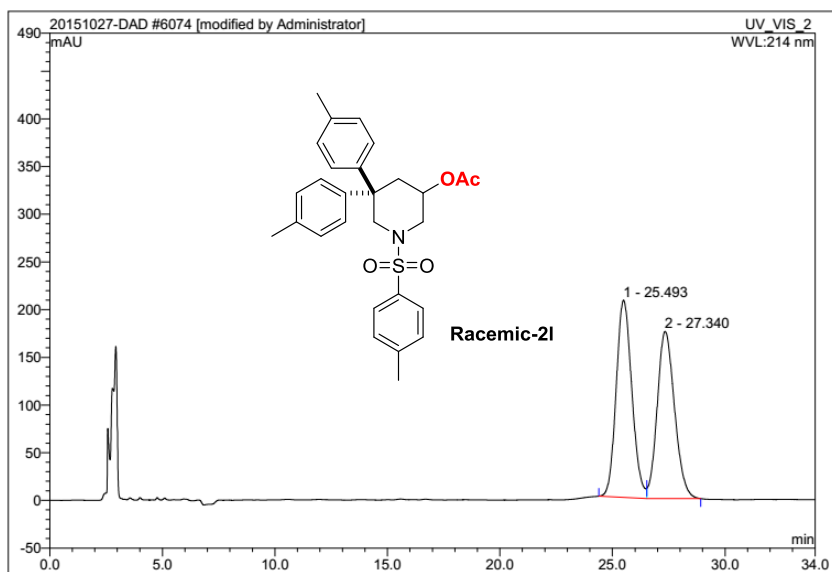
No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	11.24	n.a.	4.367	1.659	2.66	n.a.	BMB
2	21.44	n.a.	74.764	60.820	97.34	n.a.	BMB*
Total:			79.131	62.479	100.00	0.000	



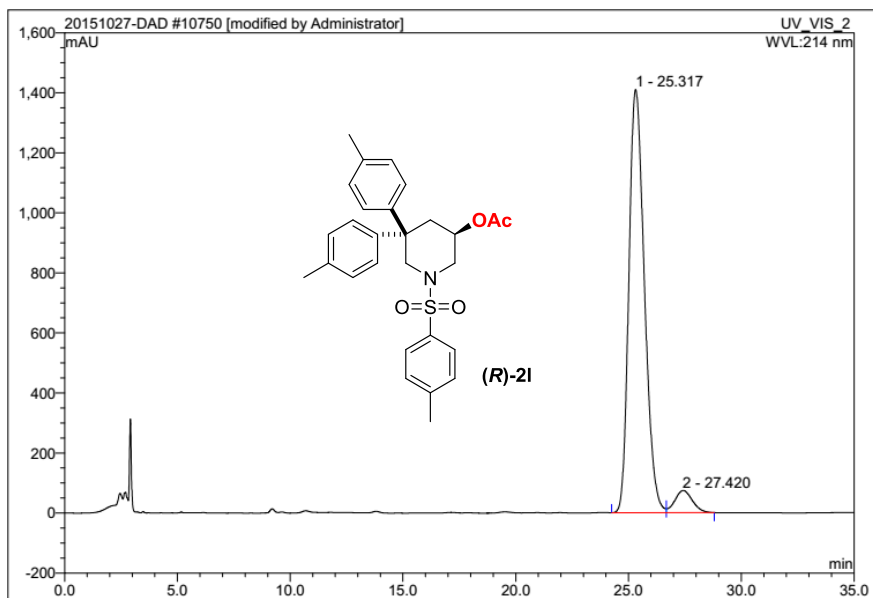
No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	28.26	n.a.	147.795	152.484	49.70	n.a.	BMB
2	36.12	n.a.	106.406	154.310	50.30	n.a.	BMB
Total:			254.200	306.795	100.00	0.000	



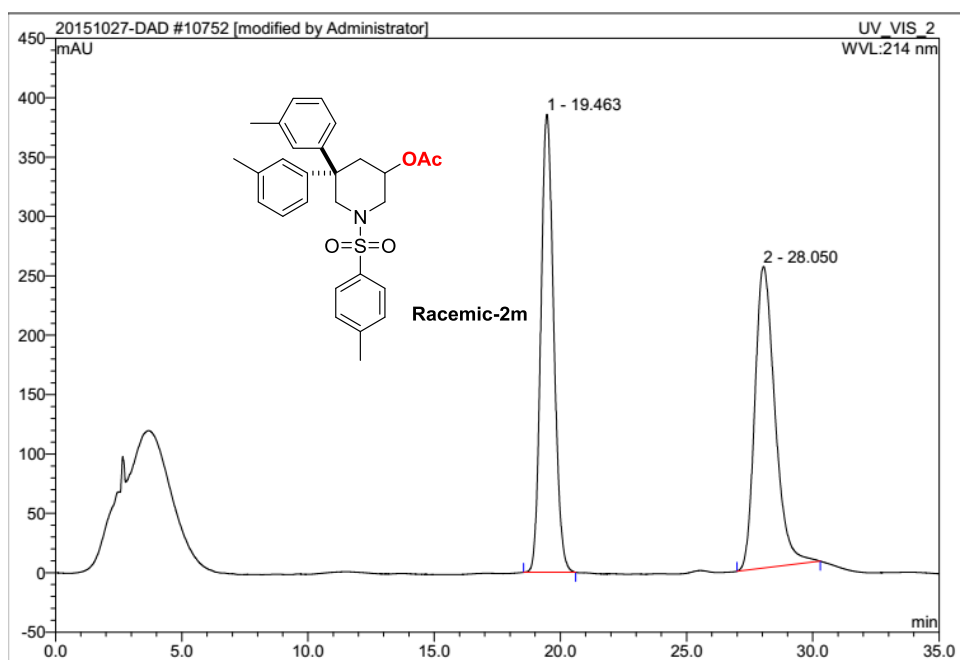
No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	27.91	n.a.	1869.270	1962.356	96.13	n.a.	BMB*
2	36.12	n.a.	58.187	78.928	3.87	n.a.	BMB*
Total:			1927.457	2041.284	100.00	0.000	



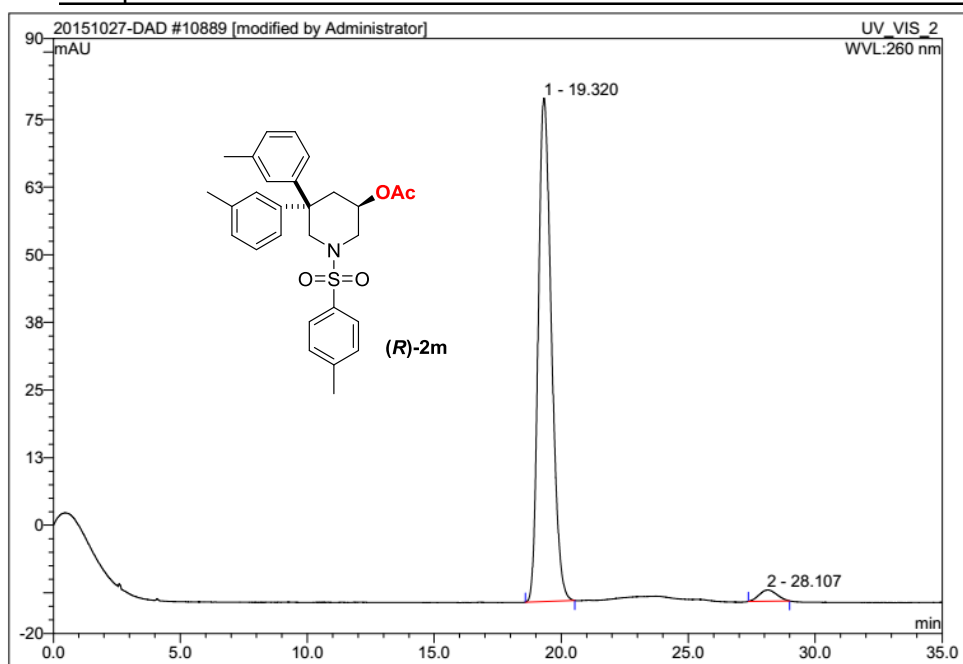
No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	25.49	n.a.	206.806	167.068	51.61	n.a.	BM *
2	27.34	n.a.	175.388	156.673	48.39	n.a.	MB*
Total:			382.195	323.741	100.00	0.000	



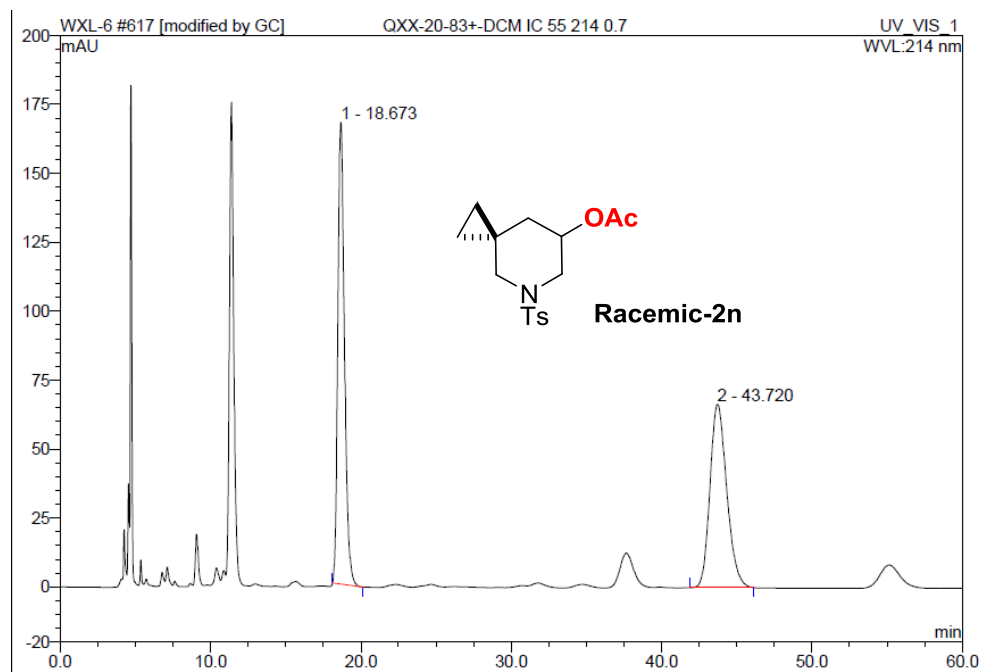
No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	25.32	n.a.	1410.407	1123.190	94.40	n.a.	BM
2	27.42	n.a.	73.812	66.638	5.60	n.a.	MB
Total:			1484.219	1189.828	100.00	0.000	



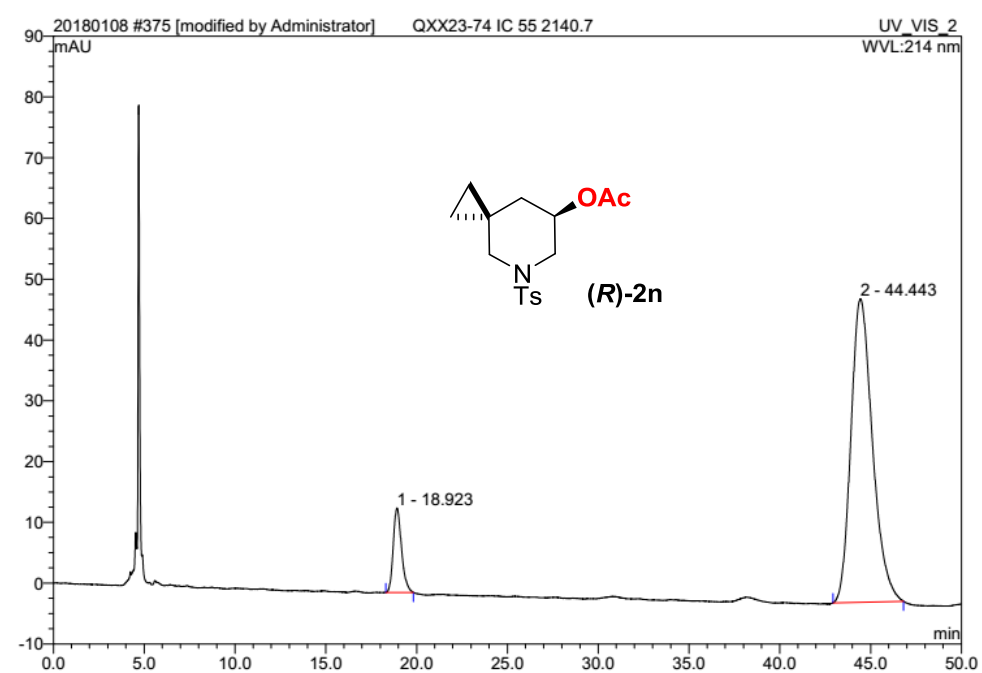
No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	19.46	n.a.	385.946	228.392	49.32	n.a.	BMB
2	28.05	n.a.	254.024	234.737	50.68	n.a.	BMB*
Total:			639.970	463.129	100.00	0.000	



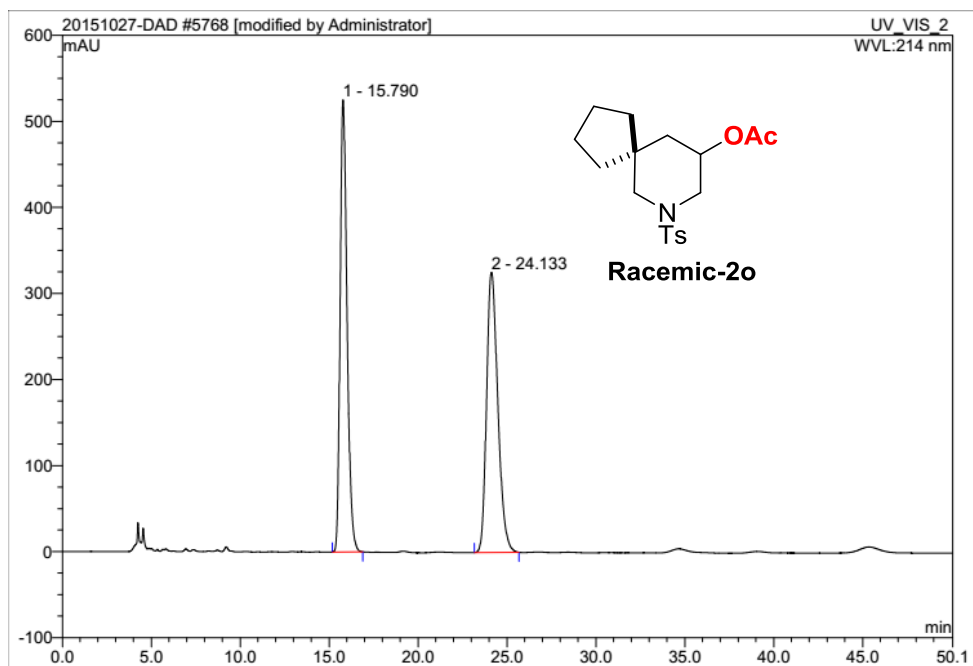
No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	19.32	n.a.	93.060	55.812	97.12	n.a.	BMB
2	28.11	n.a.	2.065	1.656	2.88	n.a.	BMB*
Total:			95.125	57.468	100.00	0.000	



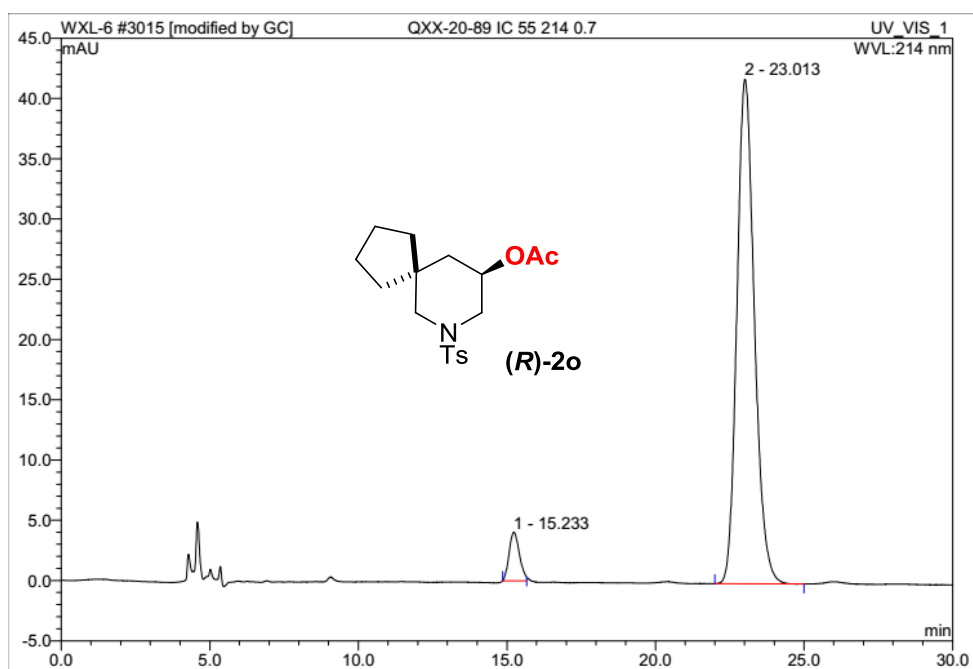
No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	18.67	n.a.	167.502	86.046	49.97	n.a.	BMB*
2	43.72	n.a.	66.519	86.157	50.03	n.a.	BMB*
Total:			234.022	172.204	100.00	0.000	



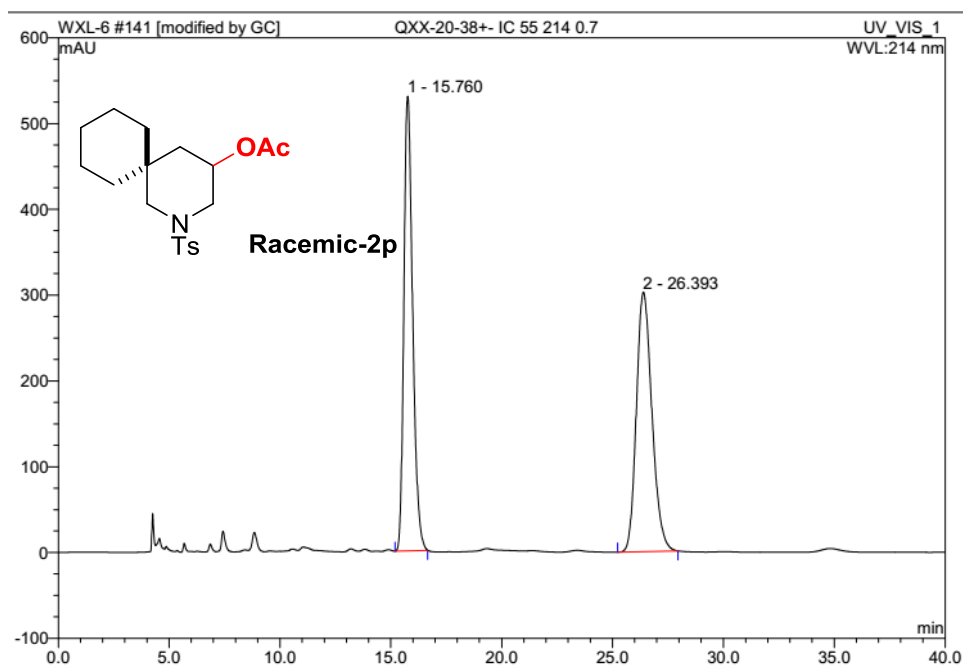
No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	18.92	n.a.	13.933	7.383	9.71	n.a.	BMB
2	44.44	n.a.	49.923	68.651	90.29	n.a.	BMB*
Total:			63.856	76.034	100.00	0.000	



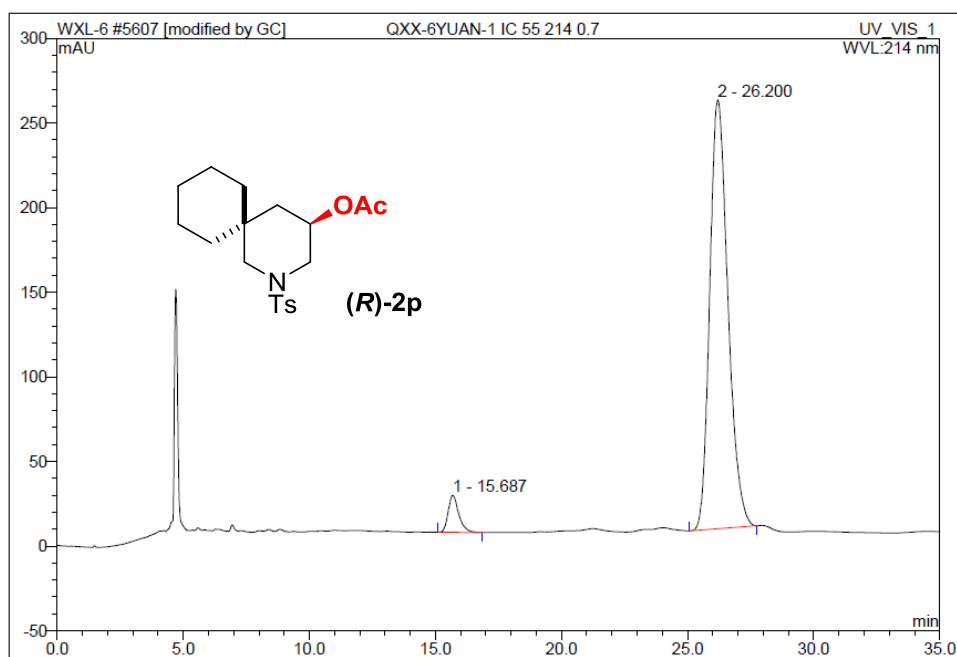
No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	15.79	n.a.	525.556	237.334	49.84	n.a.	BMB
2	24.13	n.a.	325.484	238.860	50.16	n.a.	BMB
Total:			851.040	476.195	100.00	0.000	



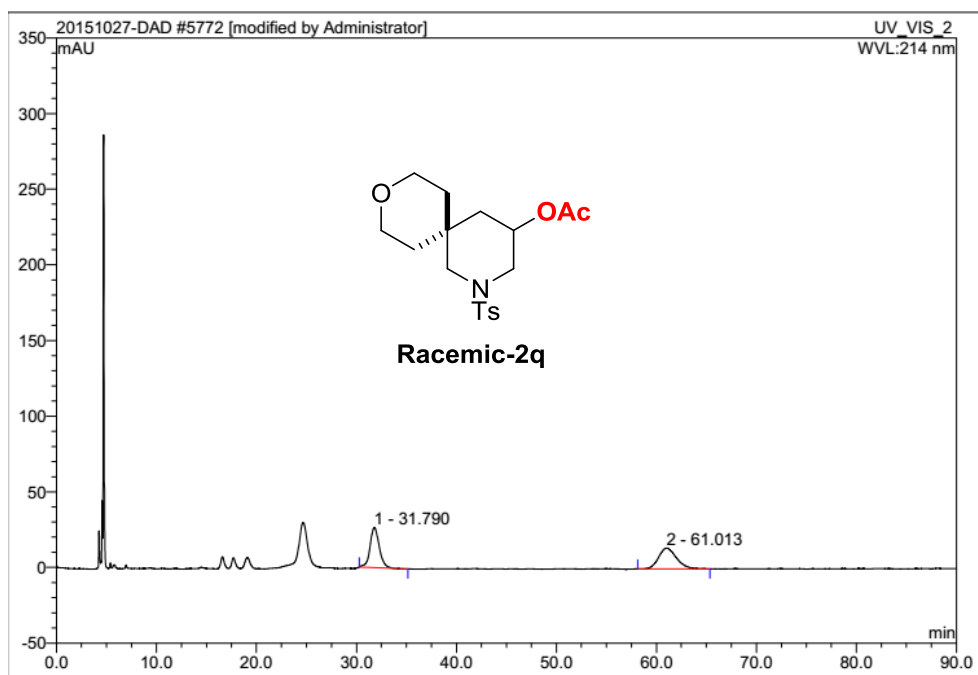
No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	15.23	n.a.	4.025	1.605	5.32	n.a.	BM *
2	23.01	n.a.	41.888	28.546	94.68	n.a.	BMB*
Total:			45.913	30.150	100.00	0.000	



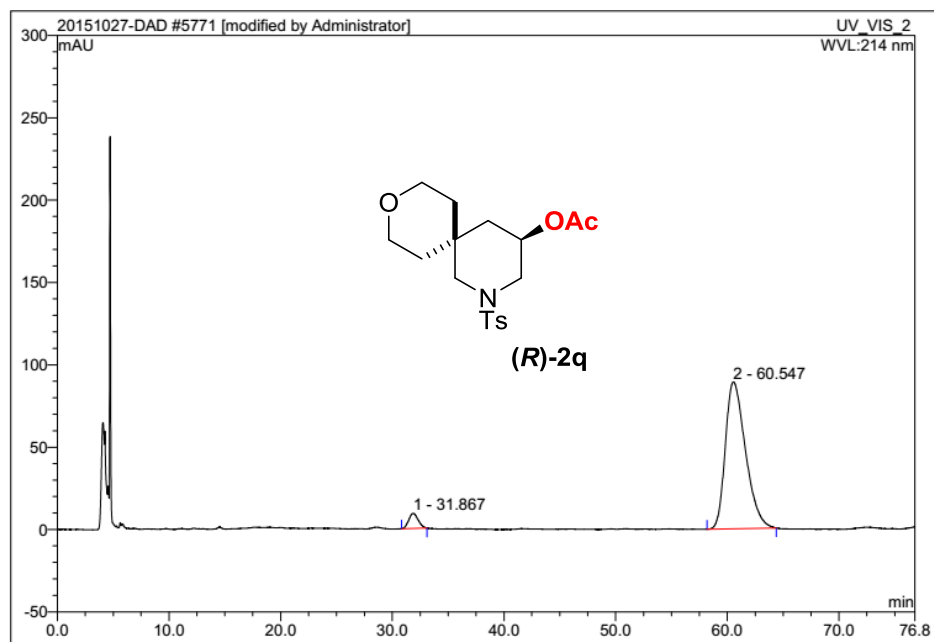
No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	15.76	n.a.	530.189	243.341	49.71	n.a.	BMB*
2	26.39	n.a.	302.610	246.180	50.29	n.a.	BMB*
Total:			832.799	489.521	100.00	0.000	



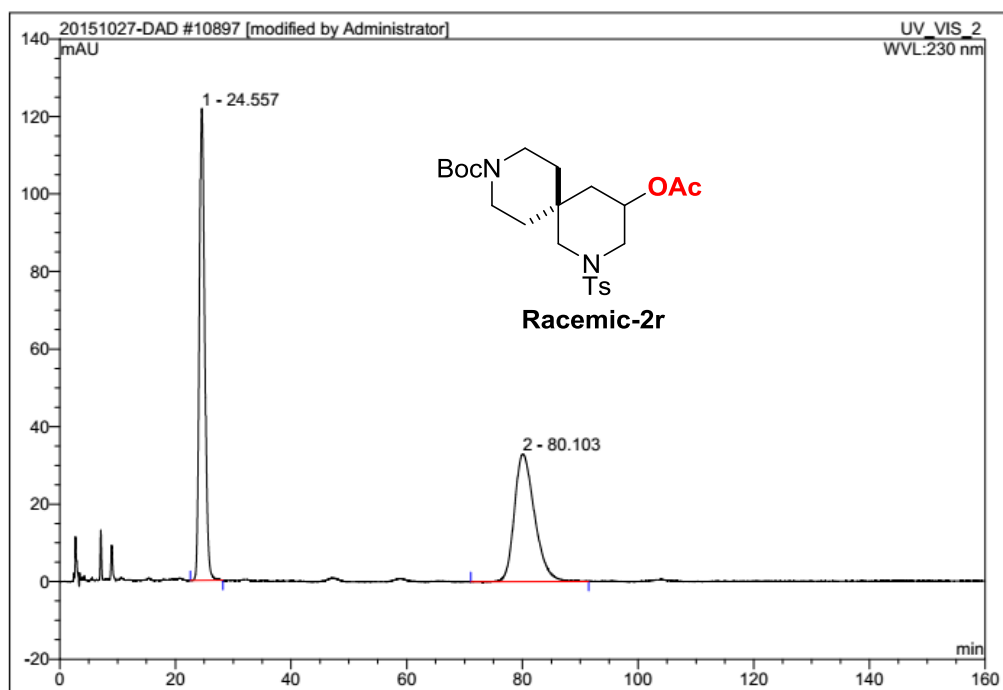
No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	15.69	n.a.	22.008	10.675	4.79	n.a.	BMB
2	26.20	n.a.	253.511	211.982	95.21	n.a.	BMB*
Total:			275.519	222.657	100.00	0.000	



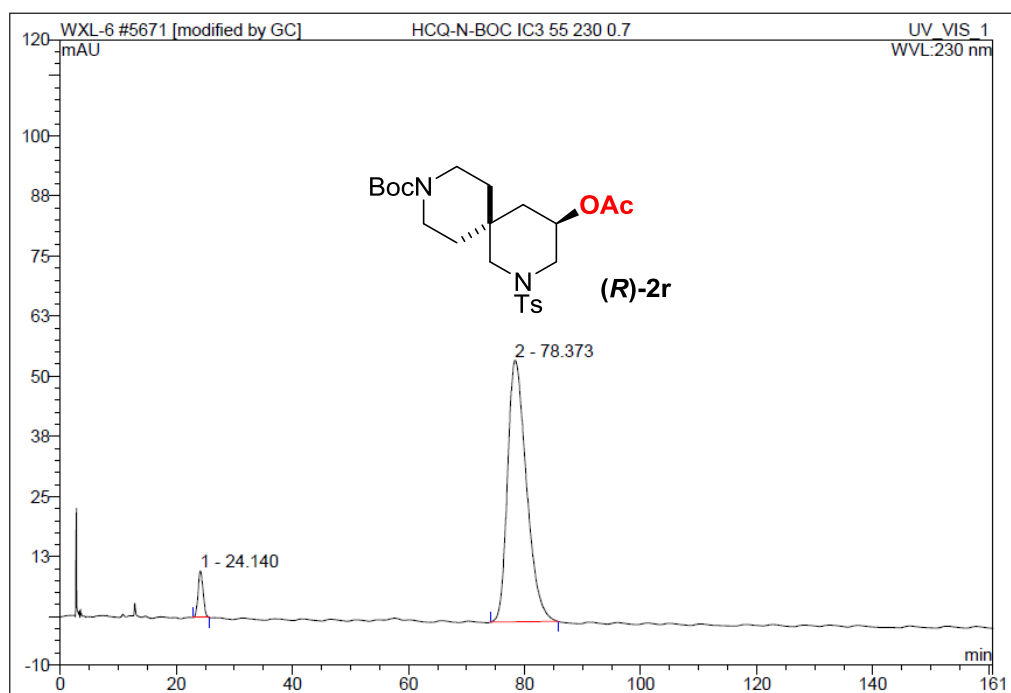
No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	31.79	n.a.	26.601	28.164	49.61	n.a.	BMB*
2	61.01	n.a.	13.686	28.608	50.39	n.a.	BMB*
Total:			40.287	56.773	100.00	0.000	



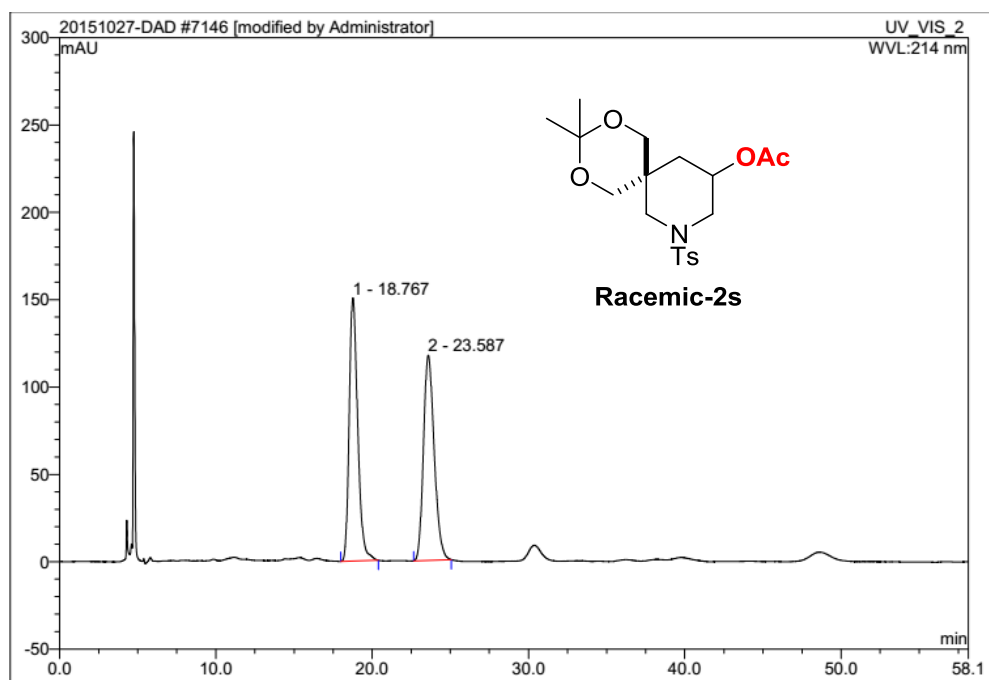
No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	31.87	n.a.	9.181	9.015	4.61	n.a.	BMB*
2	60.55	n.a.	89.191	186.590	95.39	n.a.	BMB*
Total:			98.372	195.604	100.00	0.000	



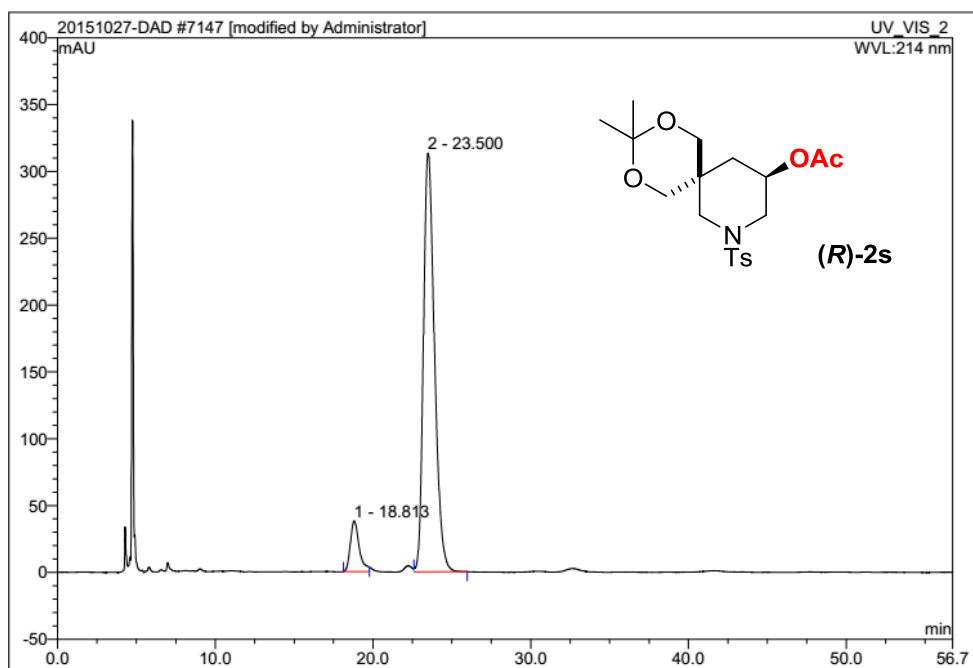
No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	24.56	n.a.	121.727	133.110	49.98	n.a.	BMB*
2	80.10	n.a.	32.935	133.198	50.02	n.a.	BMB*
Total:			154.663	266.308	100.00	0.000	



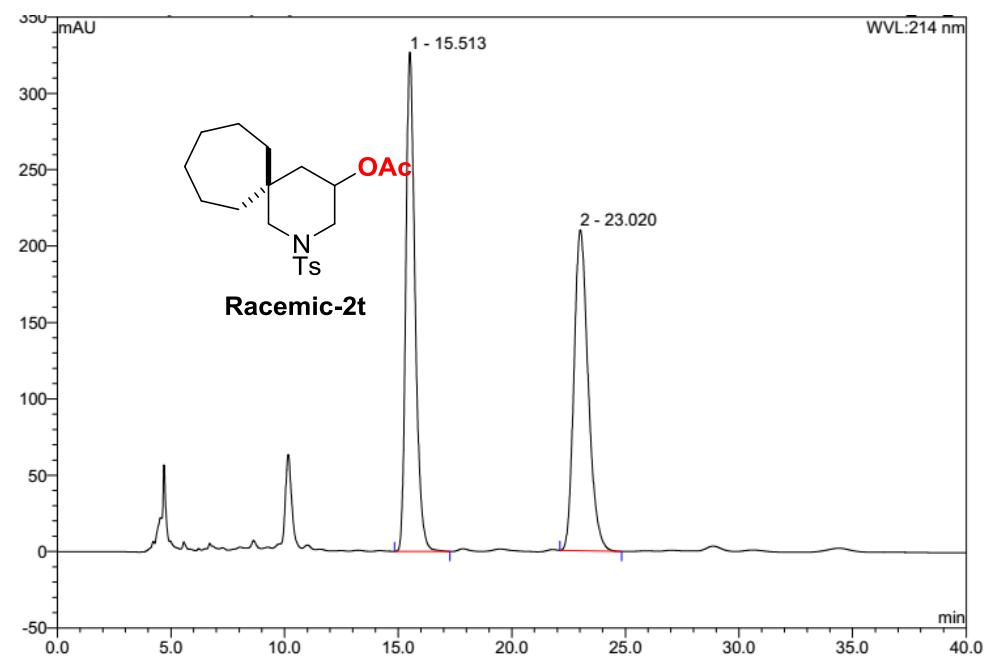
No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	24.14	n.a.	9.648	9.741	4.52	n.a.	BMB
2	78.37	n.a.	54.420	205.829	95.48	n.a.	BMB
Total:			64.068	215.570	100.00	0.000	



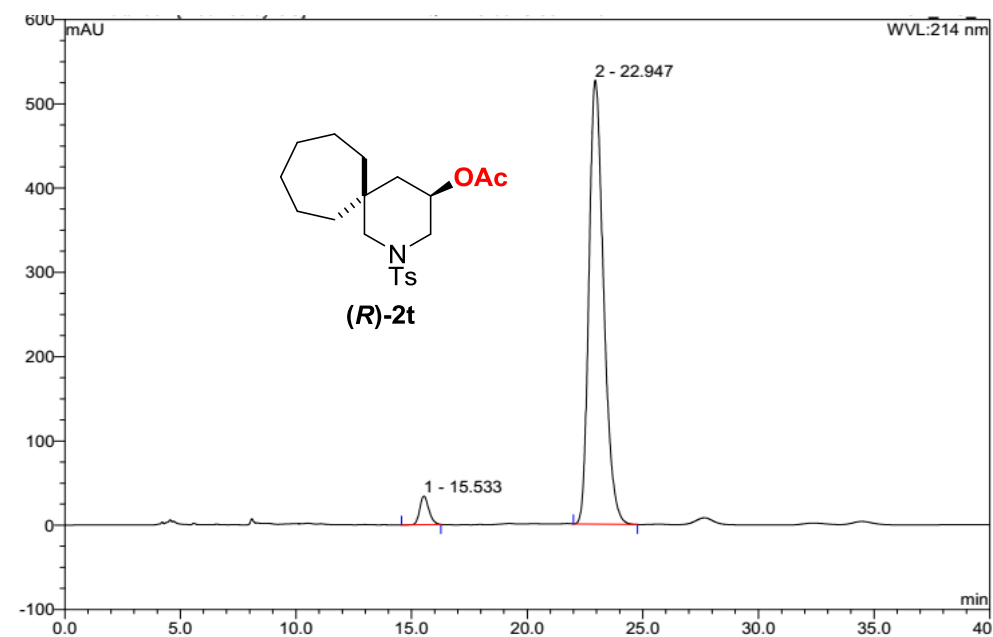
No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	18.77	n.a.	150.699	95.077	50.40	n.a.	BMB
2	23.59	n.a.	117.533	93.550	49.60	n.a.	BMB
Total:			268.232	188.627	100.00	0.000	



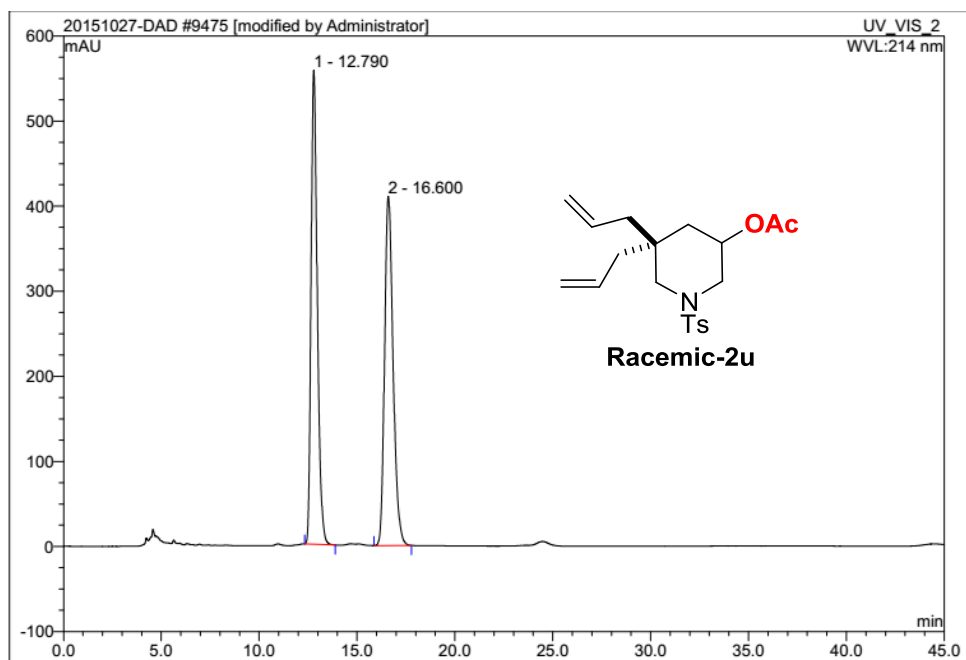
No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	18.81	n.a.	37.852	24.620	8.83	n.a.	BM *
2	23.50	n.a.	313.571	254.248	91.17	n.a.	MB*
Total:			351.423	278.868	100.00	0.000	



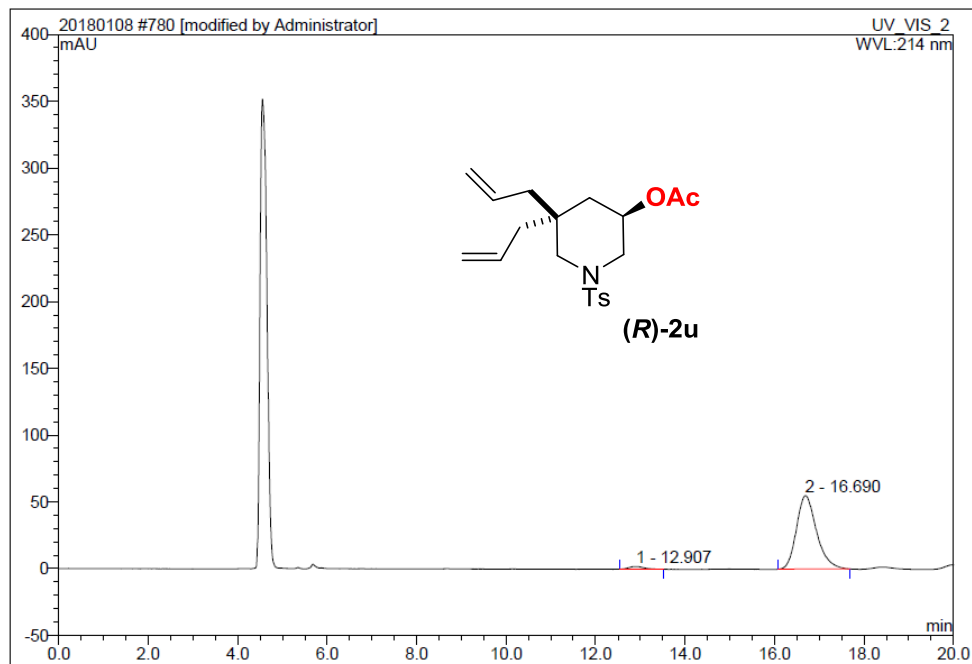
No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	15.51	n.a.	327.023	154.667	50.28	n.a.	BMB
2	23.02	n.a.	210.199	152.920	49.72	n.a.	BMB
Total:			537.222	307.587	100.00	0.000	



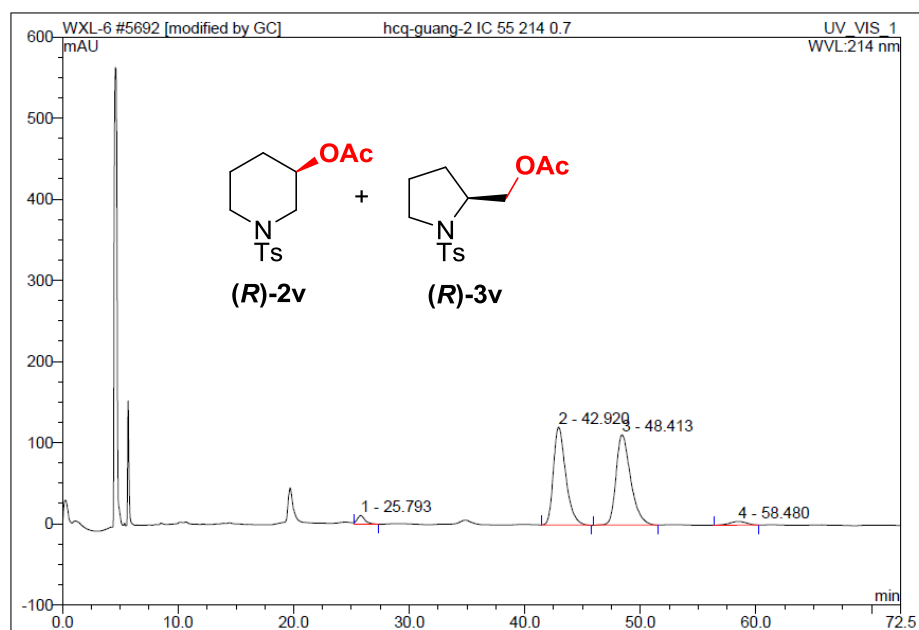
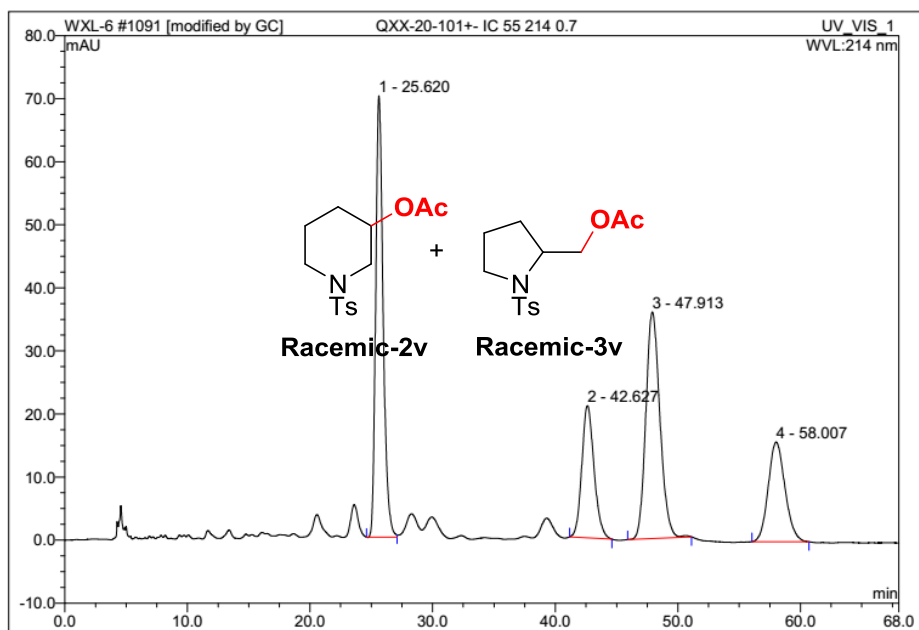
No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	15.53	n.a.	33.946	15.501	3.86	n.a.	BMB*
2	22.95	n.a.	526.976	386.129	96.14	n.a.	BMB
Total:			560.922	401.630	100.00	0.000	

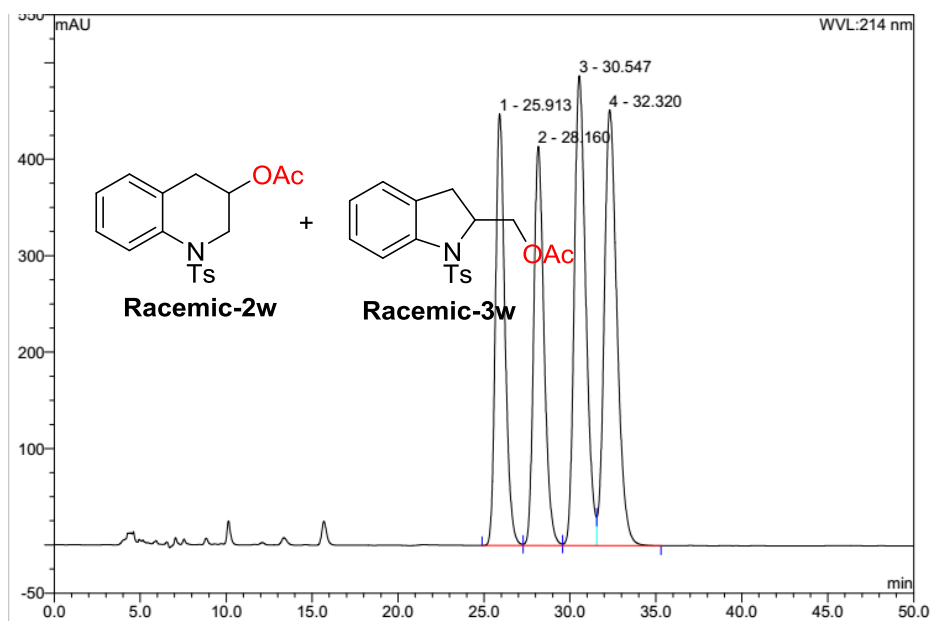


No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	12.79	n.a.	556.926	205.716	49.80	n.a.	BMB
2	16.60	n.a.	410.180	207.361	50.20	n.a.	BMB
Total:			967.106	413.077	100.00	0.000	

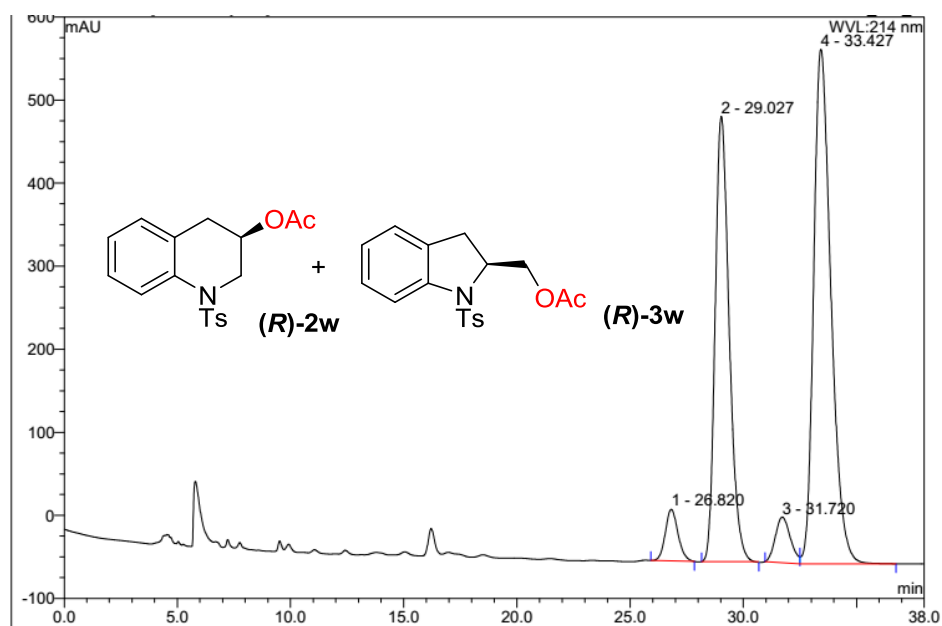


No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	12.91	n.a.	2.003	0.749	2.55	n.a.	BMB*
2	16.69	n.a.	55.033	28.673	97.45	n.a.	BMB
Total:			57.037	29.423	100.00	0.000	

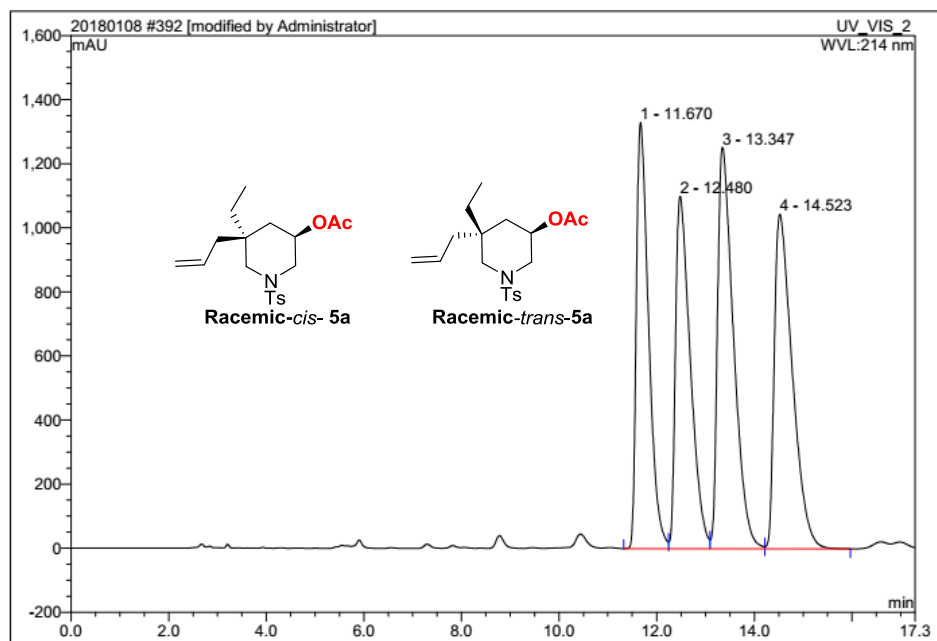




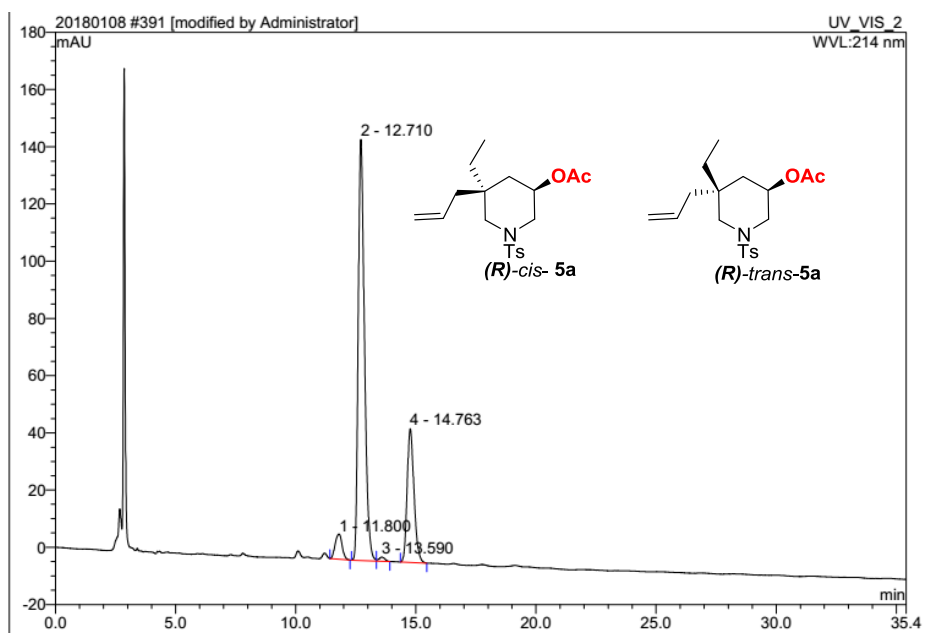
No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	25.91	n.a.	447.866	286.520	21.31	n.a.	BM
2	28.16	n.a.	414.465	289.733	21.55	n.a.	M
3	30.55	n.a.	487.695	379.135	28.20	n.a.	M
4	32.32	n.a.	452.265	389.146	28.94	n.a.	MB
Total:			1802.291	1344.534	100.00	0.000	



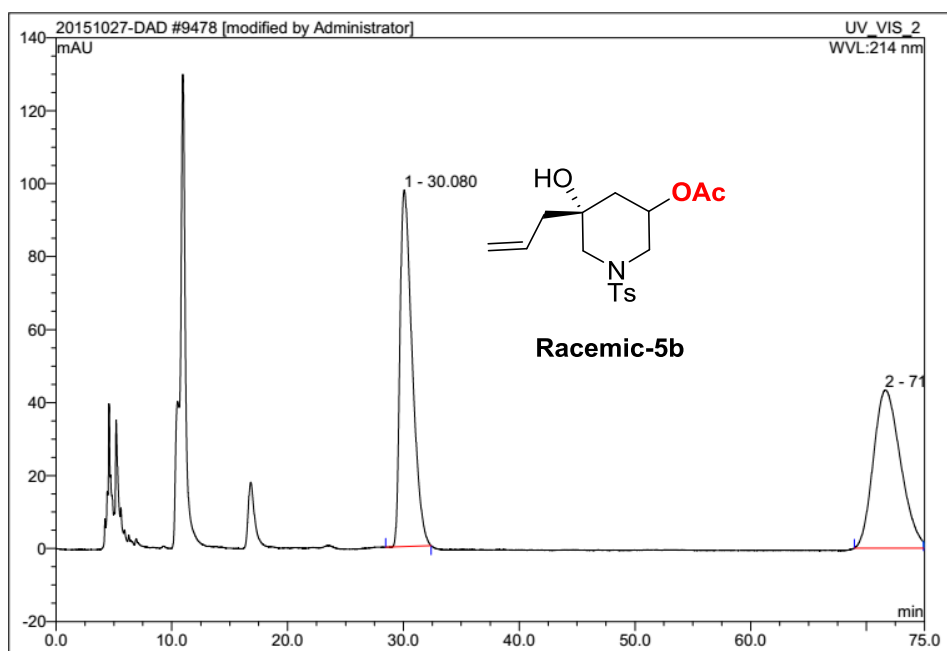
No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	26.82	n.a.	62.139	40.370	3.97	n.a.	BMB*
2	29.03	n.a.	536.371	385.414	37.92	n.a.	BM *
3	31.72	n.a.	54.913	42.222	4.15	n.a.	BM *
4	33.43	n.a.	619.390	548.502	53.96	n.a.	MB*
Total:			1272.813	1016.509	100.00	0.000	



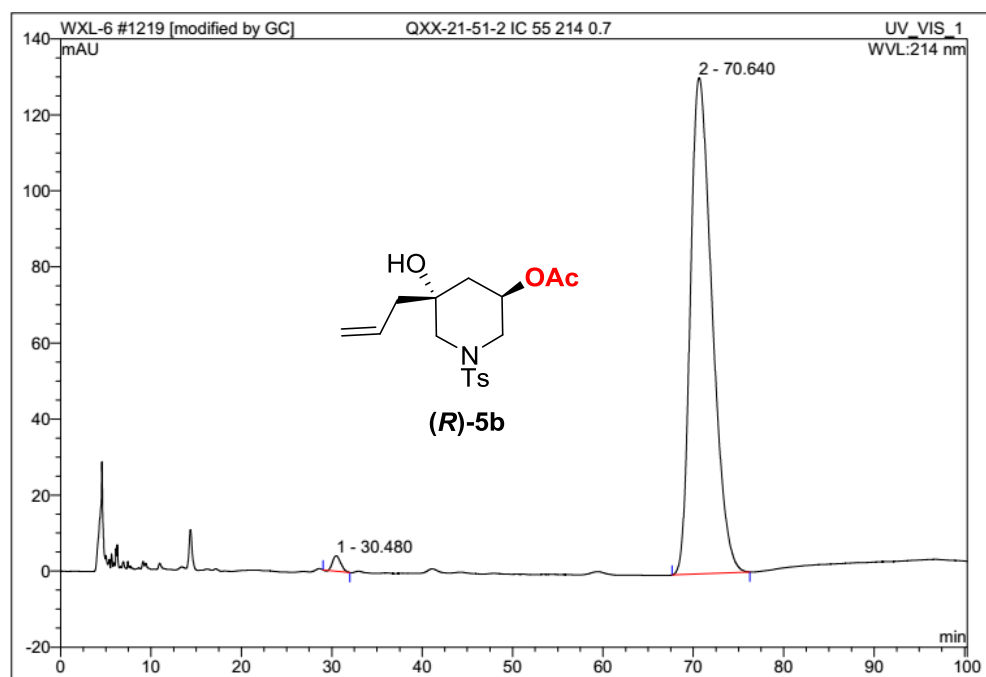
No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	11.67	n.a.	1330.010	388.049	22.86	n.a.	BM
2	12.48	n.a.	1100.230	387.114	22.81	n.a.	M
3	13.35	n.a.	1253.214	475.032	27.99	n.a.	M
4	14.52	n.a.	1044.113	447.023	26.34	n.a.	MB
Total:			4727.568	1697.218	100.00	0.000	



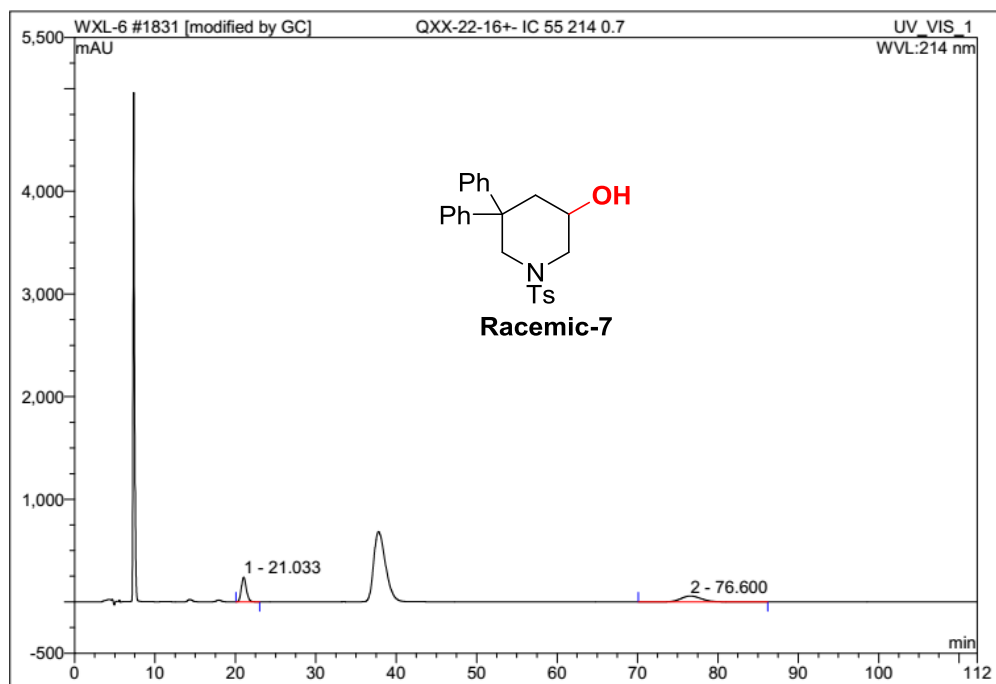
No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	11.80	n.a.	8.770	2.932	4.64	n.a.	BMB*
2	12.71	n.a.	147.252	44.366	70.14	n.a.	BM
3	13.59	n.a.	1.473	0.421	0.67	n.a.	MB
4	14.76	n.a.	46.770	15.532	24.56	n.a.	BMB
Total:			204.265	63.251	100.00	0.000	



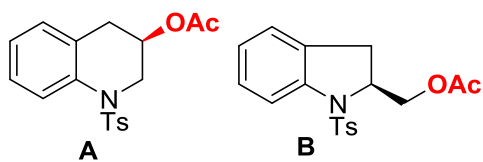
No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	30.08	n.a.	97.708	119.363	50.39	n.a.	BMB*
2	71.64	n.a.	43.412	117.539	49.61	n.a.	BM *
Total:			141.120	236.902	100.00	0.000	

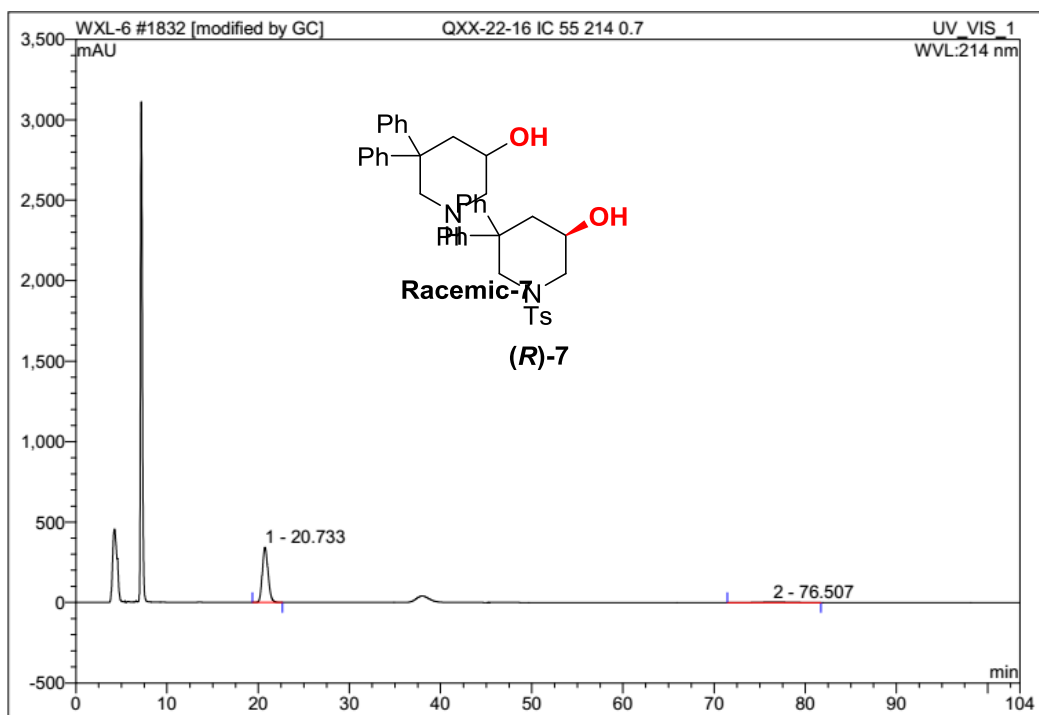


No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	30.48	n.a.	4.037	4.155	1.13	n.a.	BMB*
2	70.64	n.a.	130.483	362.506	98.87	n.a.	BMB*
Total:			134.519	366.661	100.00	0.000	

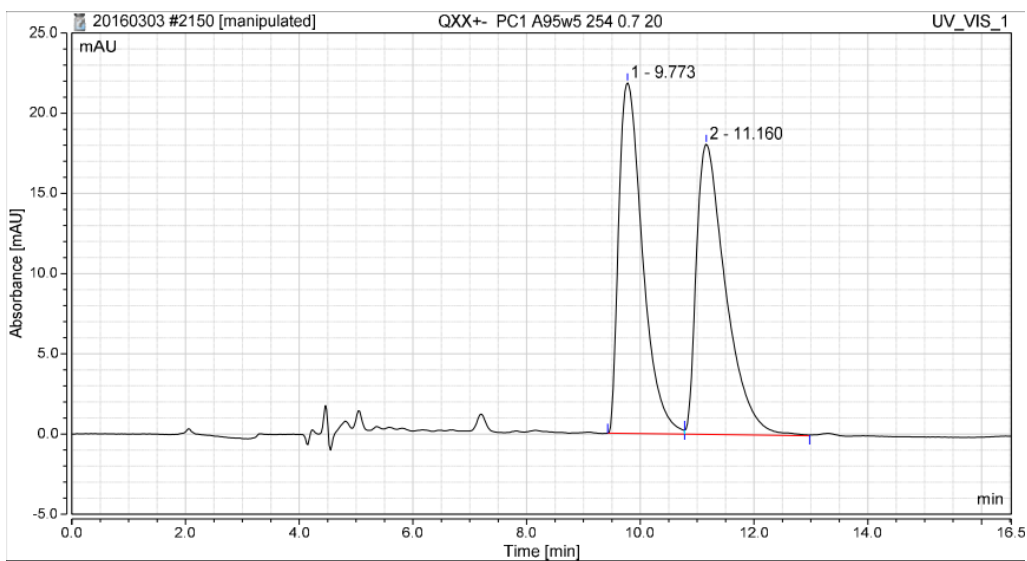


No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	21.03	n.a.	239.645	172.801	50.78	n.a.	BMB*
2	76.60	n.a.	57.457	167.490	49.22	n.a.	BMB*
Total:			297.102	340.291	100.00	0.000	



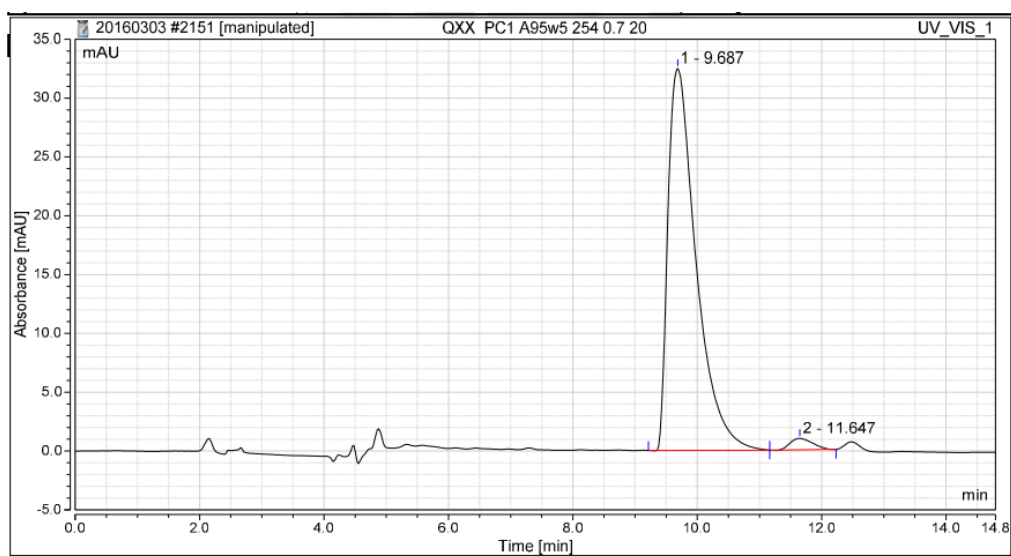


No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	20.73	n.a.	344.377	249.513	96.63	n.a.	BMB*
2	76.51	n.a.	3.012	8.704	3.37	n.a.	BMB*
Total:			347.389	258.217	100.00	0.000	



Integration Results

No.	Retention Time min	Area mAU*min	Height mAU	Relative Area %
1	9.773	10.617	21.868	49.55
2	11.160	10.808	18.095	50.45
Total:		21.425	39.963	100.00



Integration Results				
No.	Retention Time min	Area mAU*min	Height mAU	Relative Area %
1	9.687	16.973	32.465	97.71
2	11.647	0.398	0.963	2.29
Total:		17.371	33.428	100.00

