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Synthesis and hydroformylation evaluation of Fréchet-type organometallic dendrons with *N,O*-salicylaldimine Rh(I) complexes at the focal point

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† CCDC 1837993 (**1**), 1837994 (**4**) and 1837995 (**7**).

Supporting Information

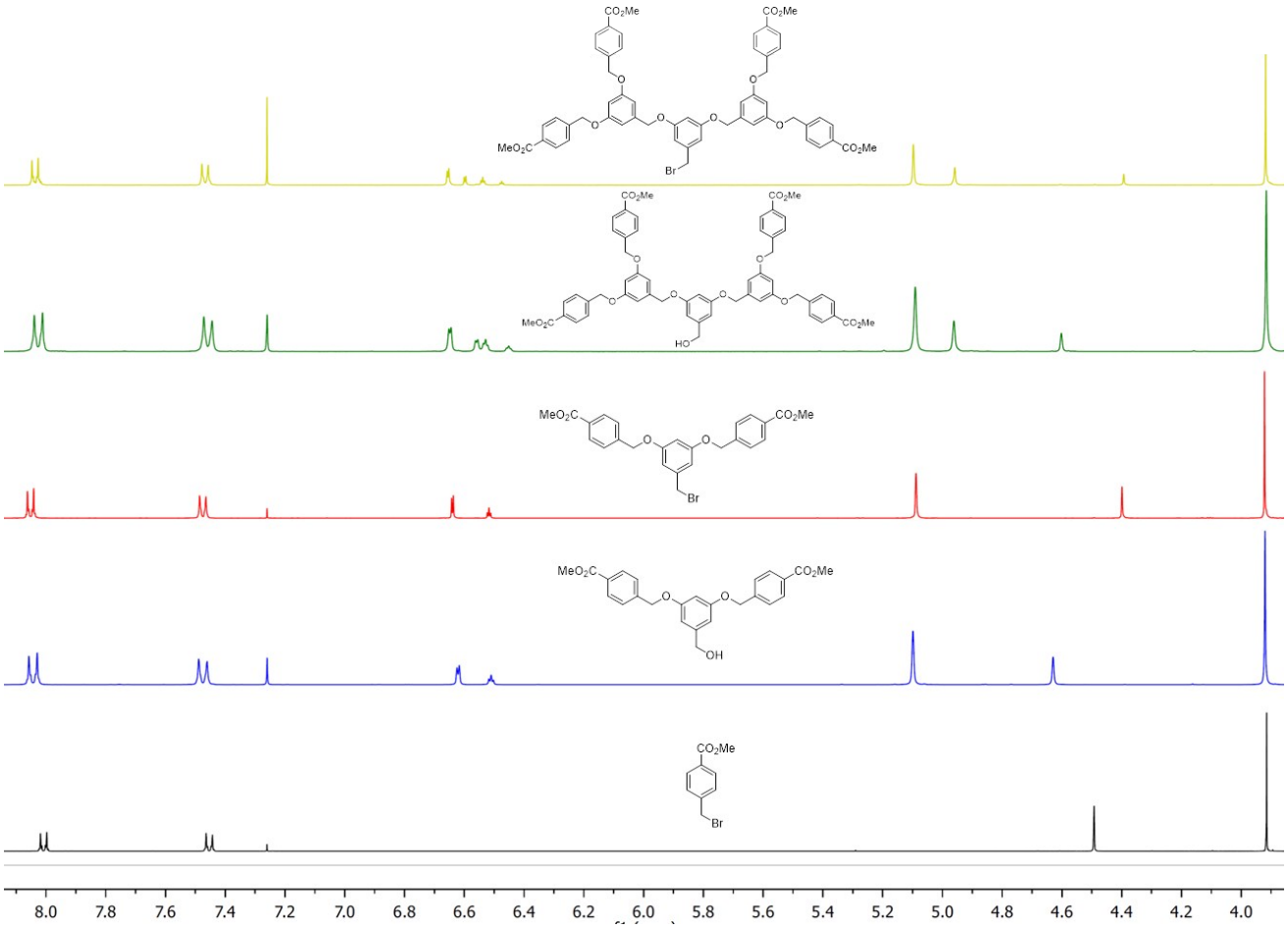


Figure S1: Stacked ^{1}H NMR spectra of the Fréchet dendron precursors.

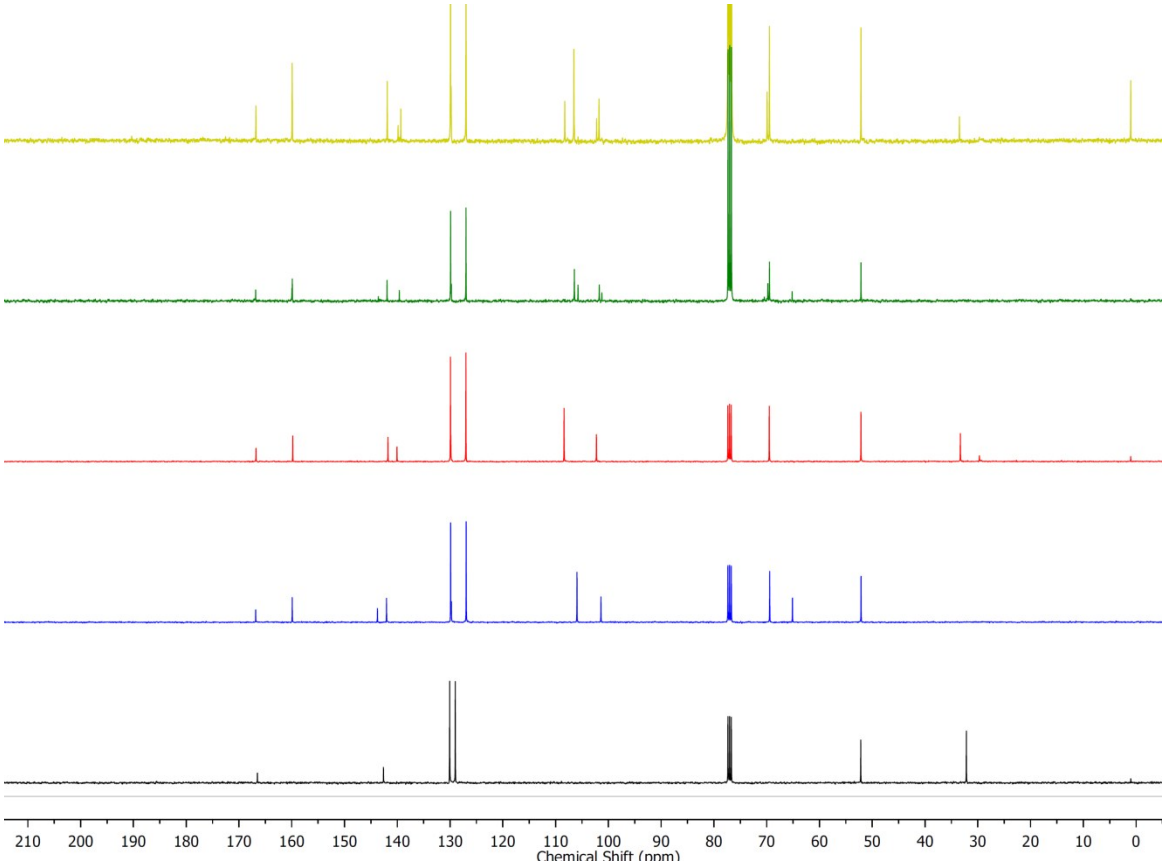


Figure S2: Stacked $^{13}C\{^{1}H\}$ NMR spectra of the Fréchet dendron precursors.

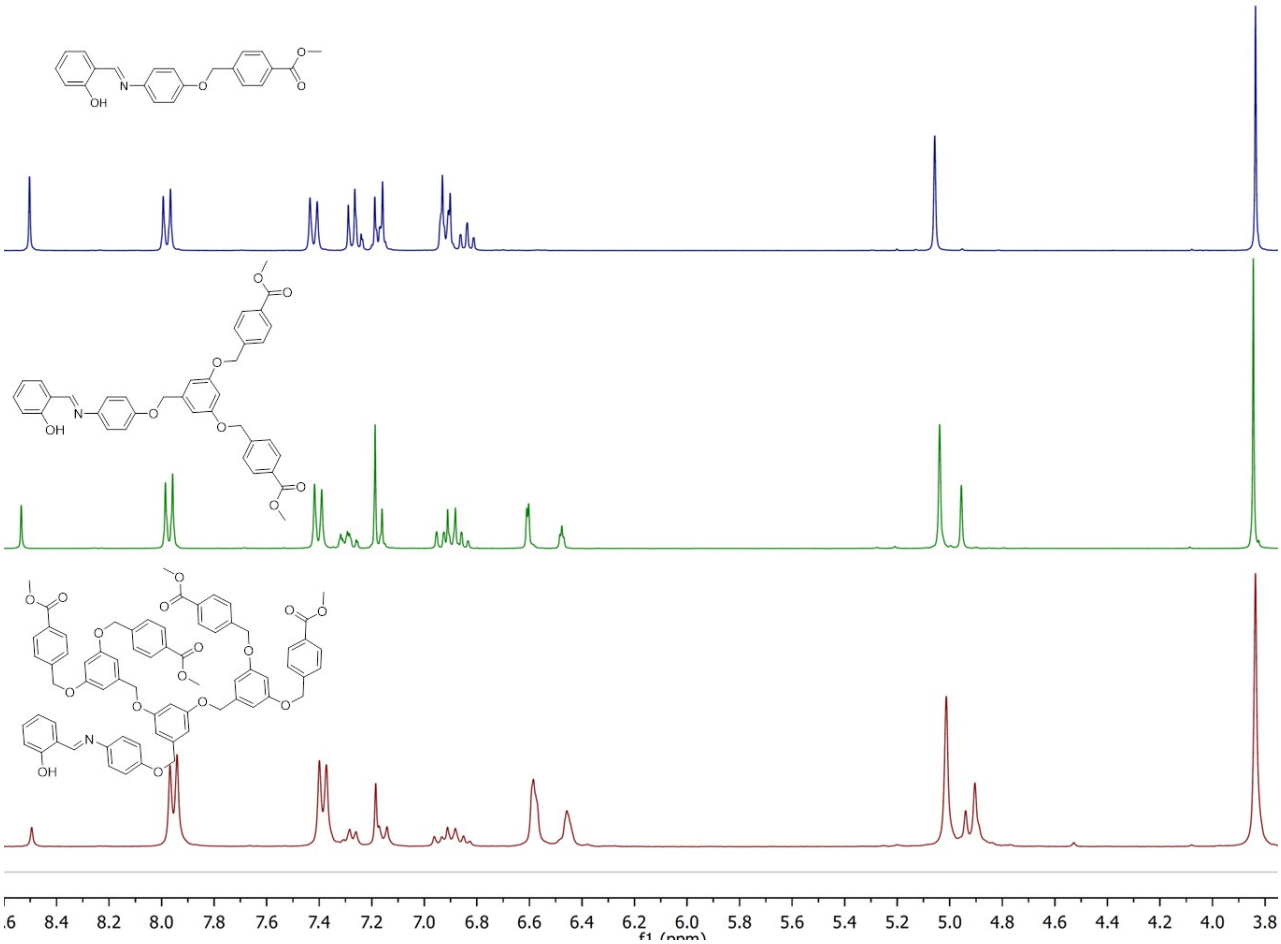


Figure S3: Stacked ^{1}H NMR spectra of ligands **1**, **2** and **3** respectively.

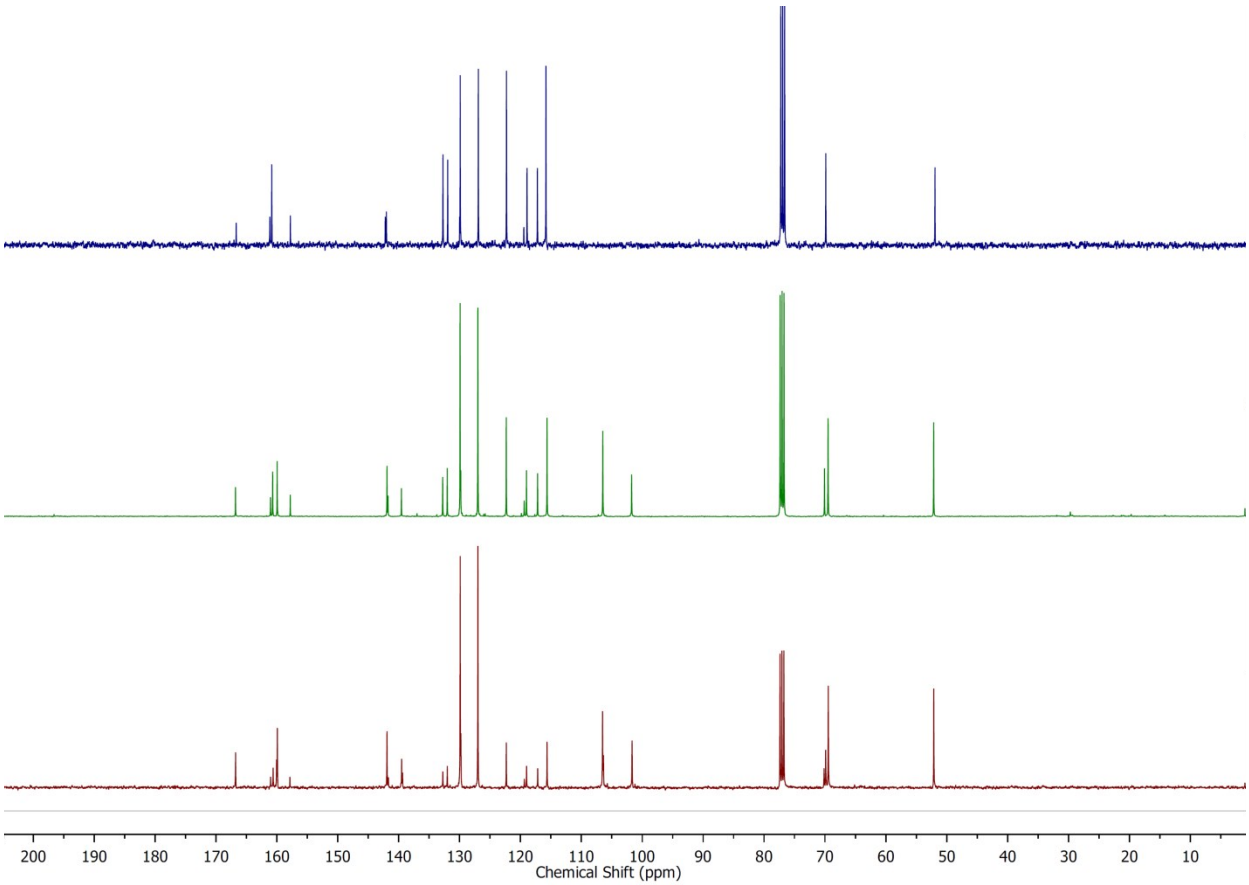


Figure S4: Stacked $^{13}C\{^{1}H\}$ NMR spectra of **1**, **2** and **3** respectively.

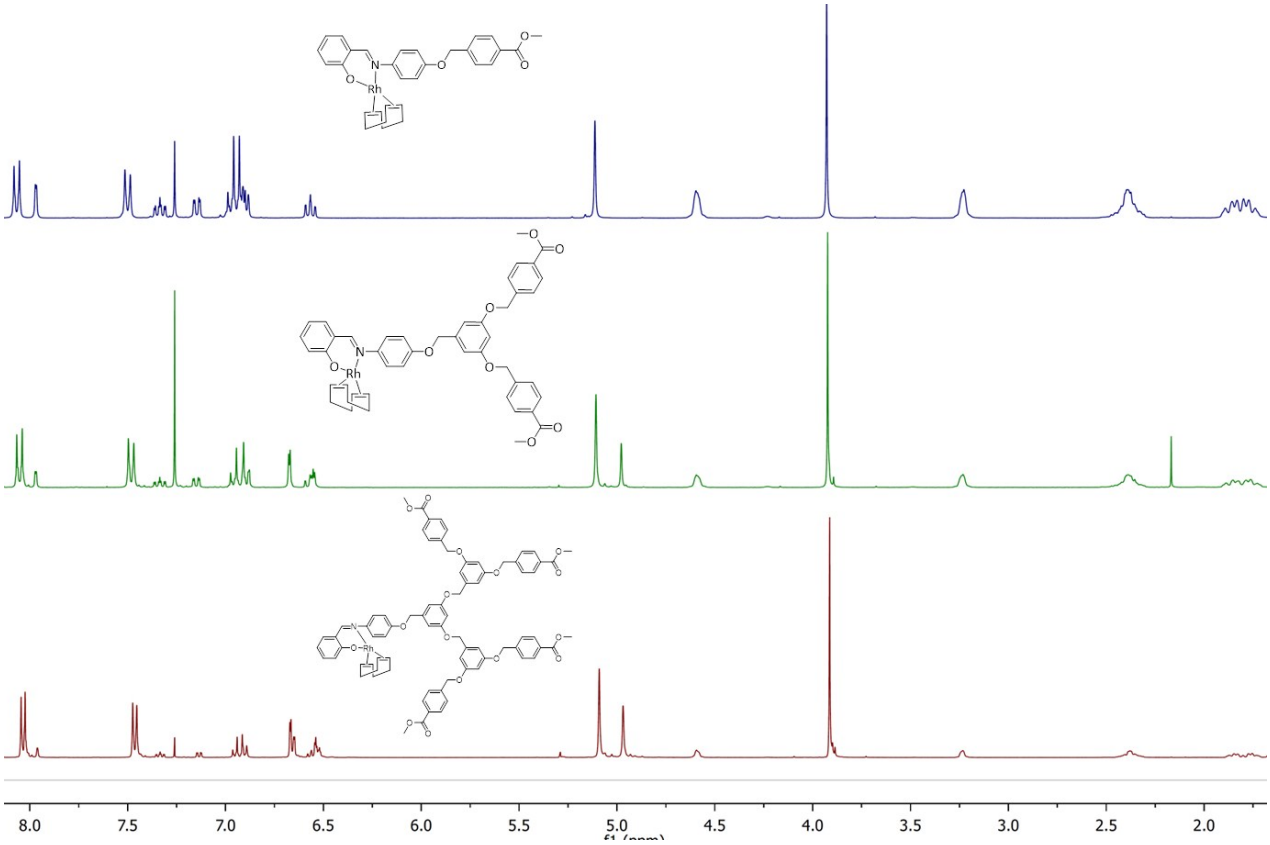


Figure S5: Stacked ^{1}H NMR spectra of **4**, **5** and **6** respectively.

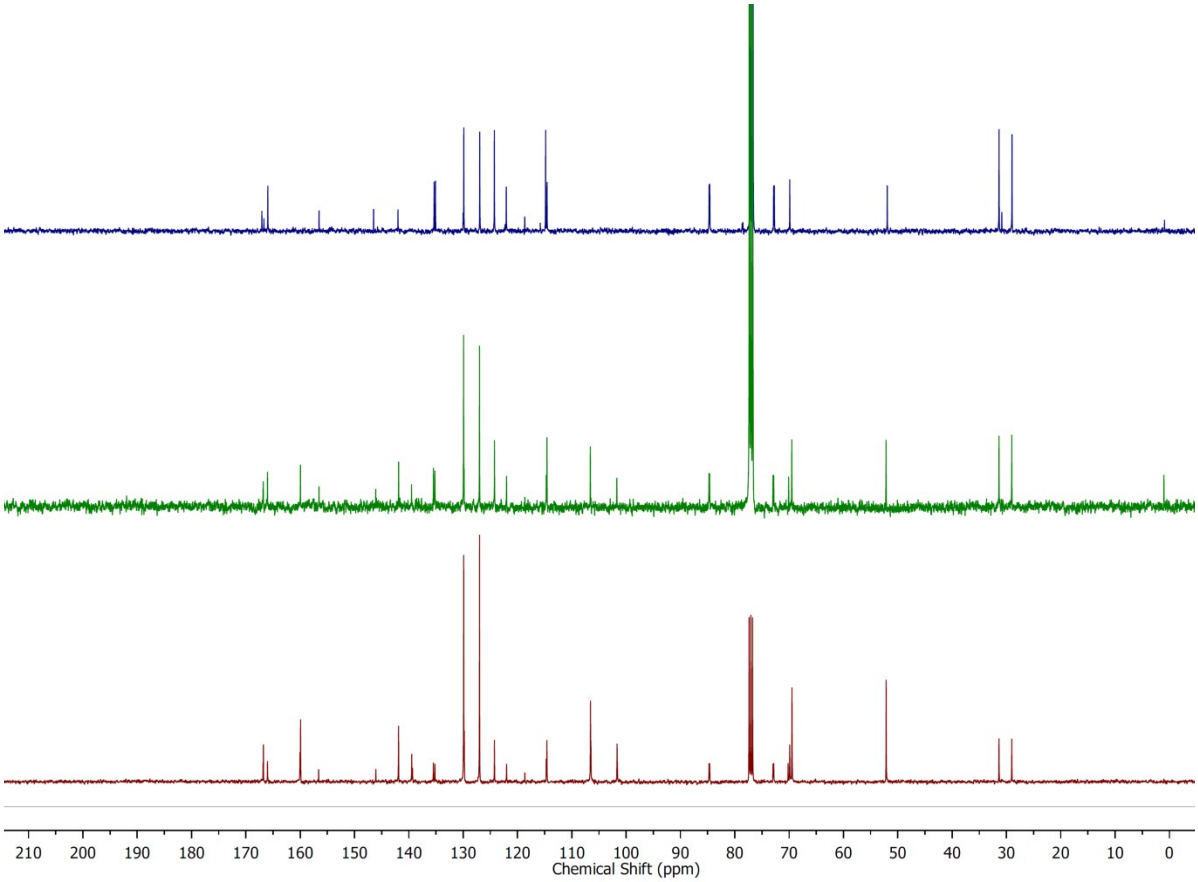


Figure S6: Stacked $^{13}C\{^{1}H\}$ NMR spectra of **4**, **5** and **6** respectively.

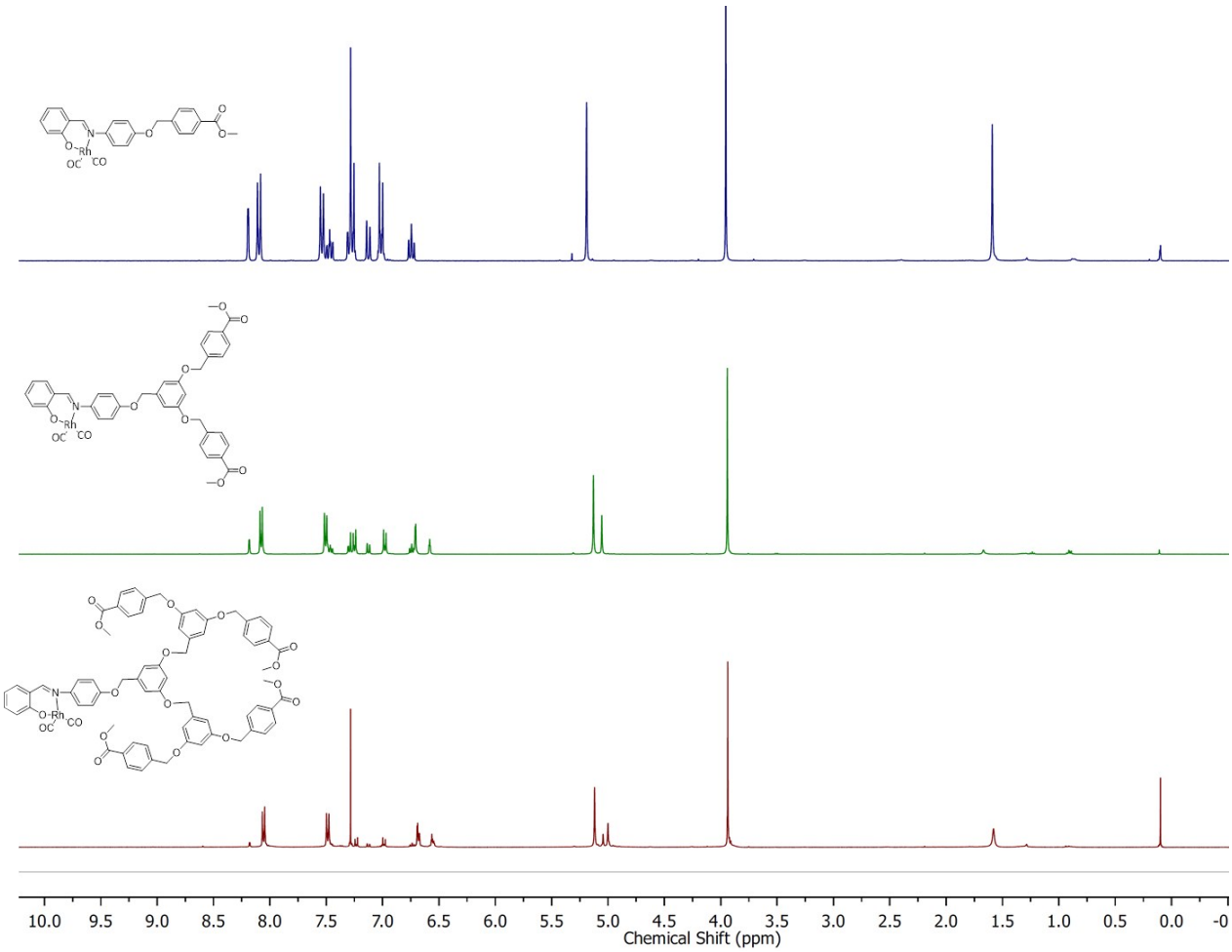


Figure S7: Stacked ^{1}H NMR spectra of **7**, **8** and **9** respectively.

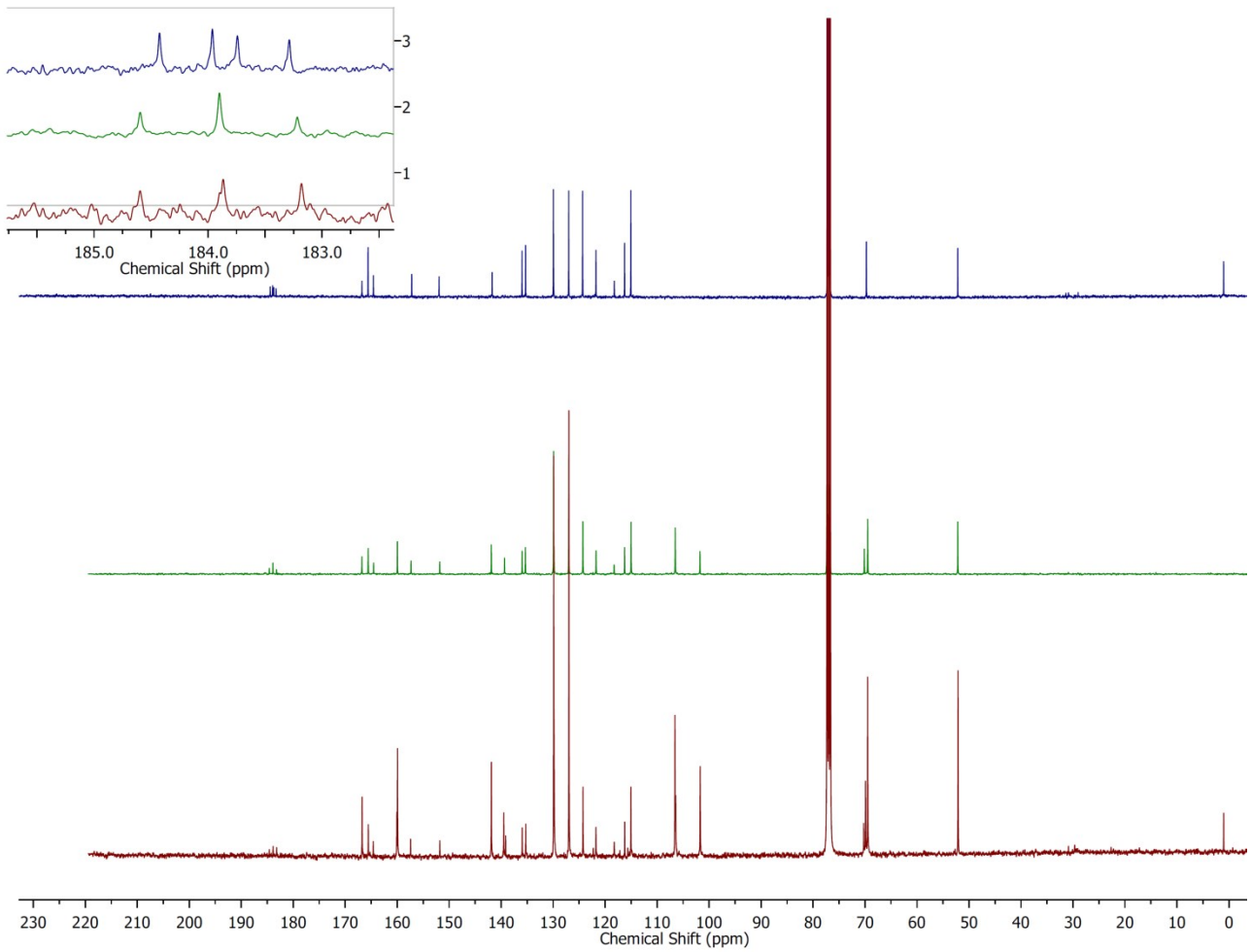


Figure S8: Stacked $^{13}C\{^{1}H\}$ NMR spectra of **7**, **8** and **9** respectively.

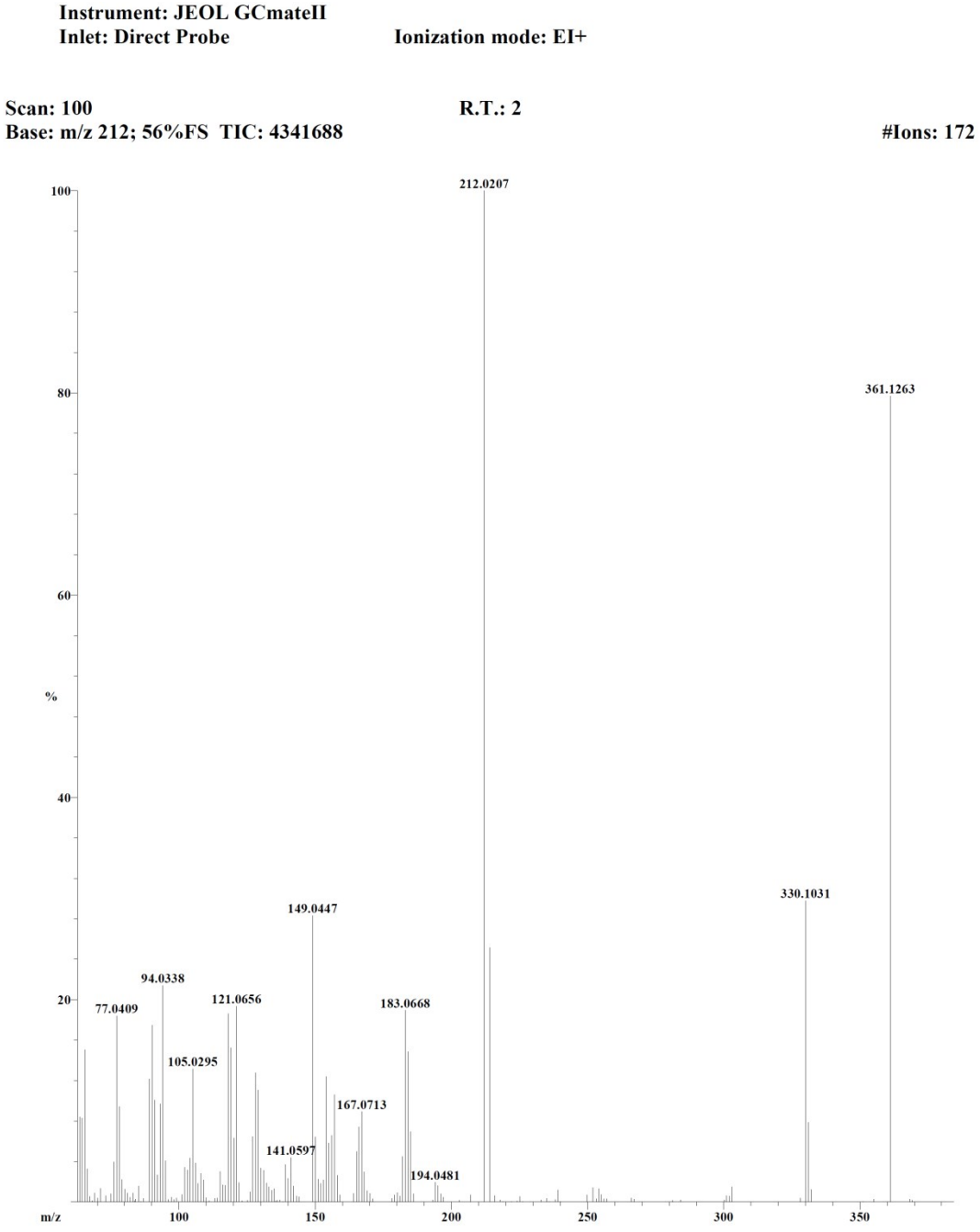


Figure S9: EI-MS of compound **1**.

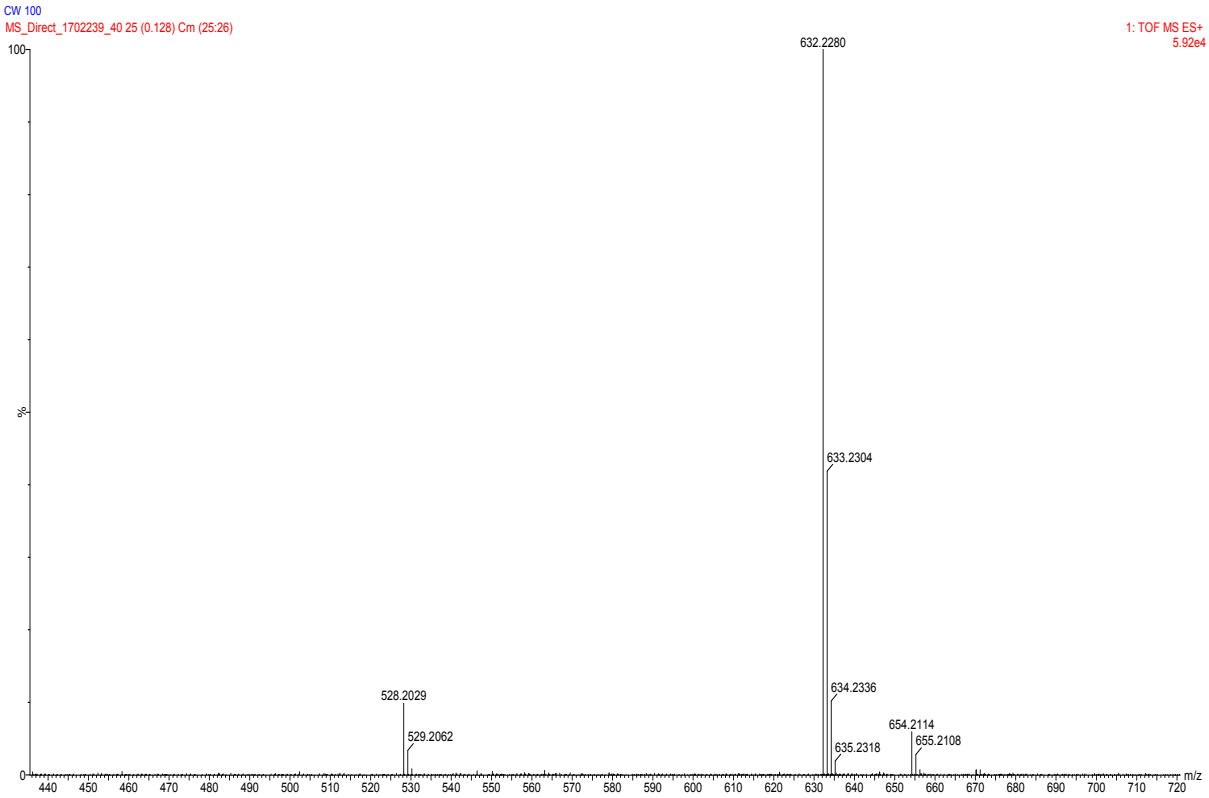
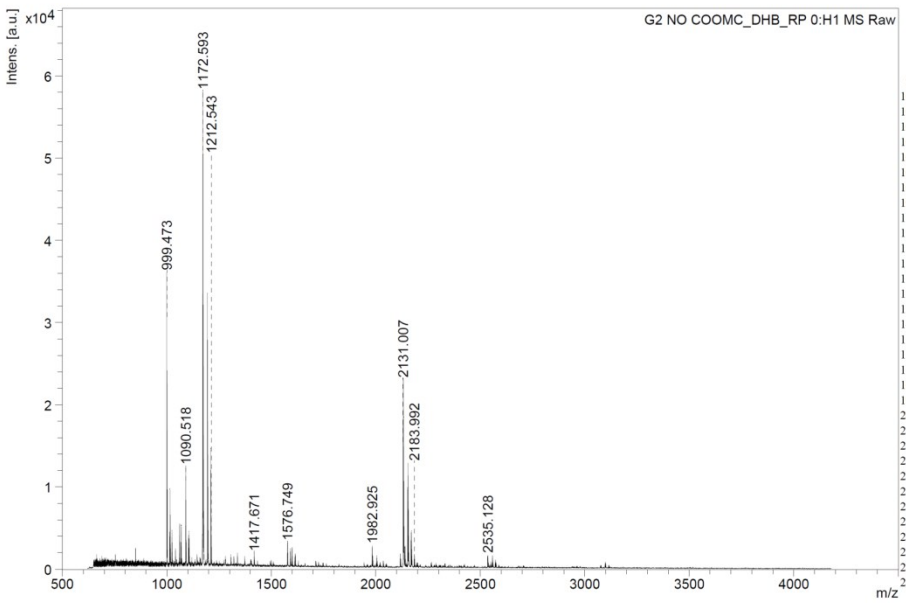


Figure S10: ESI-TOF-MS (+) of compound **2**.



m/z	S/N	Quality Fac.	Res.	Intens.	Area
999.473	92.6	6530	6077	30610.26	9602
1013.476	9.1	101	6947	3223.65	838
1015.454	24.0	1542	7089	8040.26	2157
1024.493	11.7	914	8933	4108.06	867
1041.478	6.4	551	14384	2320.61	322
1060.600	11.8	903	6337	4033.00	1251
1067.533	7.5	165	7784	2648.71	640
1068.552	8.2	479	6292	2846.77	877
1090.518	33.7	3418	7284	10677.73	3165
1103.503	9.9	345	8491	3317.96	808
1106.495	12.6	963	8630	4157.80	1026
1172.593	161.0	4446	4938	47634.62	24055
1174.584	42.6	384	11116	12816.90	2846
1194.567	98.1	6692	7205	28646.62	10172
1210.540	45.2	3839	8269	13214.41	4141
1212.543	7.6	198	11913	2451.56	485
1417.671	6.1	656	8593	1749.30	614
1576.749	12.3	999	9754	2849.07	1139
1590.773	8.4	873	8578	1984.82	889
1598.735	10.5	1591	11174	2420.15	866
1613.735	7.4	255	10341	1744.27	656
1982.925	12.1	1064	9812	2015.68	1203
2004.905	7.0	805	10263	1206.42	656
2116.960	8.2	650	10029	1273.57	759
2131.007	114.2	1452	7195	15444.09	14804
2132.463	10.7	76	5989	1604.87	1725
2132.972	42.3	323	31760	6573.83	1463
2138.965	13.8	1267	9101	2026.28	1424
2152.984	65.0	2416	8691	8724.66	6932
2155.964	16.6	445	10856	2359.63	1406
2168.957	24.8	3230	10104	3372.67	2261
2183.992	7.0	534	8861	1075.61	725
2535.128	8.6	519	8681	940.13	826
2558.117	8.1	546	9167	874.88	728

Figure S11: MALDI-TOF-MS (+) of compound **3**.

Instrument: JEOL GCmateII
Inlet: Direct Probe **Ionization mode: EI+**

Scan: 144 **R.T.: 2.88**
Base: m/z 212; 29%FS TIC: 3181218 **#Ions: 251**

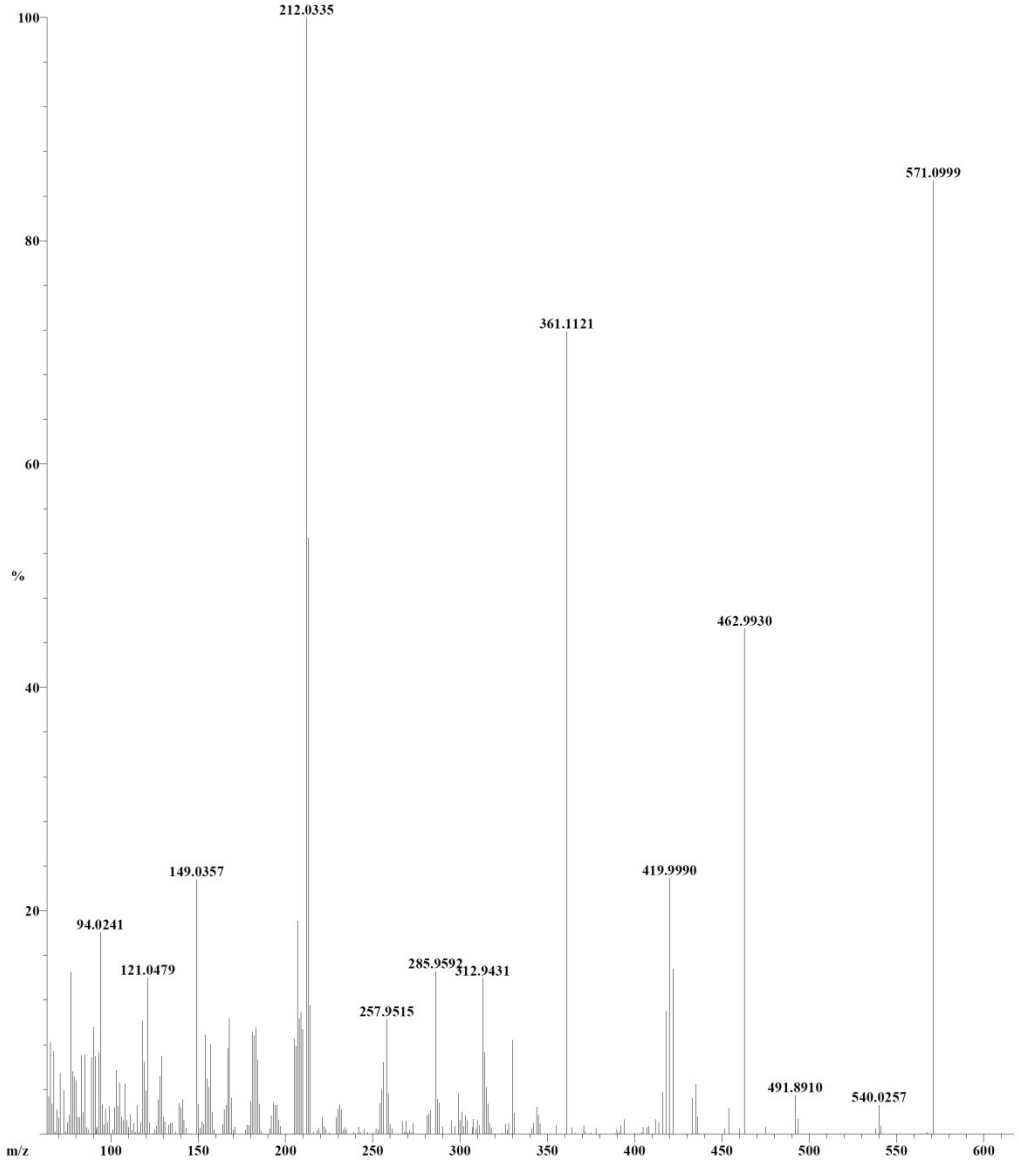


Figure S12: EI-MS (+) of compound **4**.

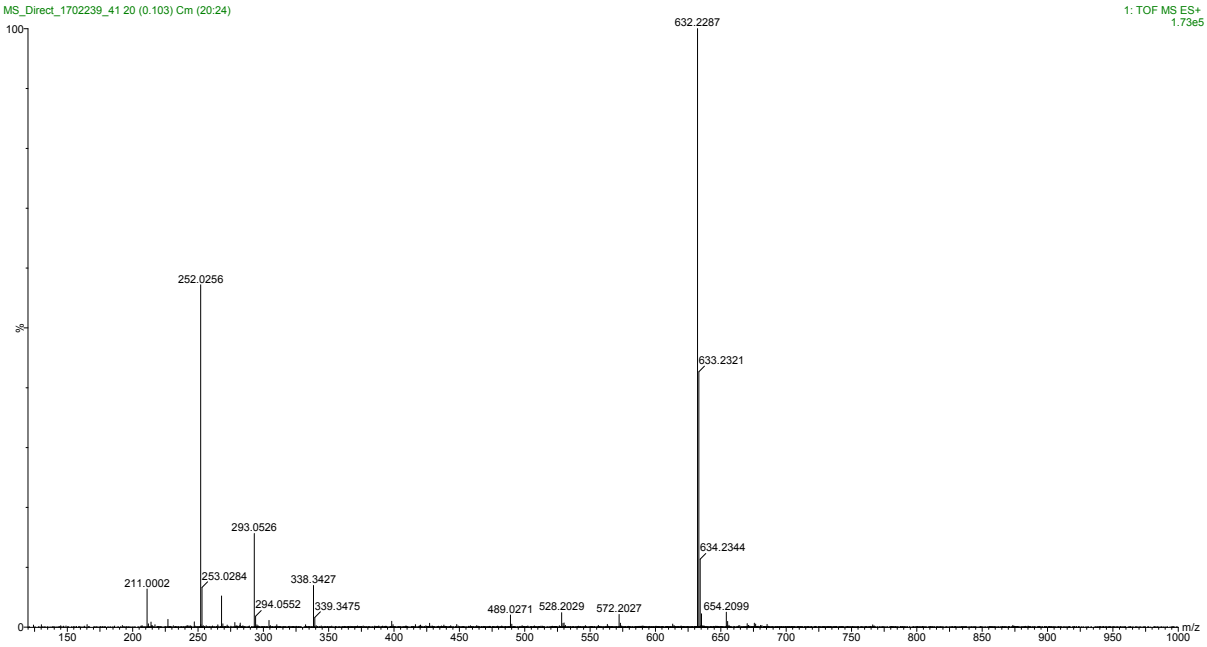


Figure S13: ESI-TOF-MS (+) of compound **5**.

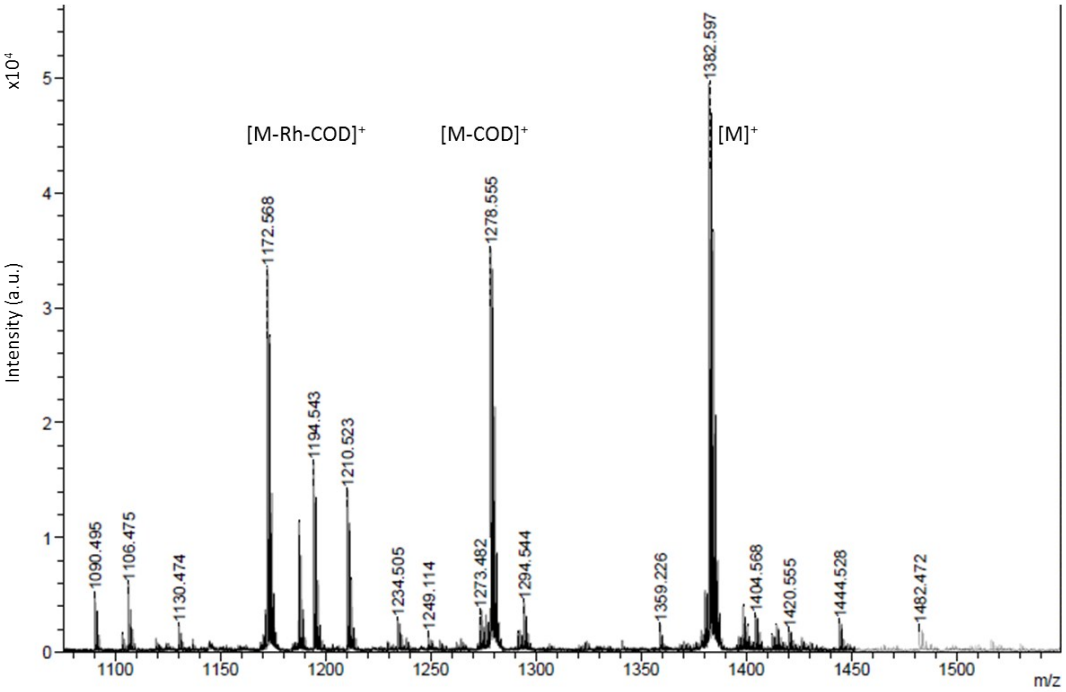


Figure S14: MALDI-TOF-MS (+) of compound **6**.

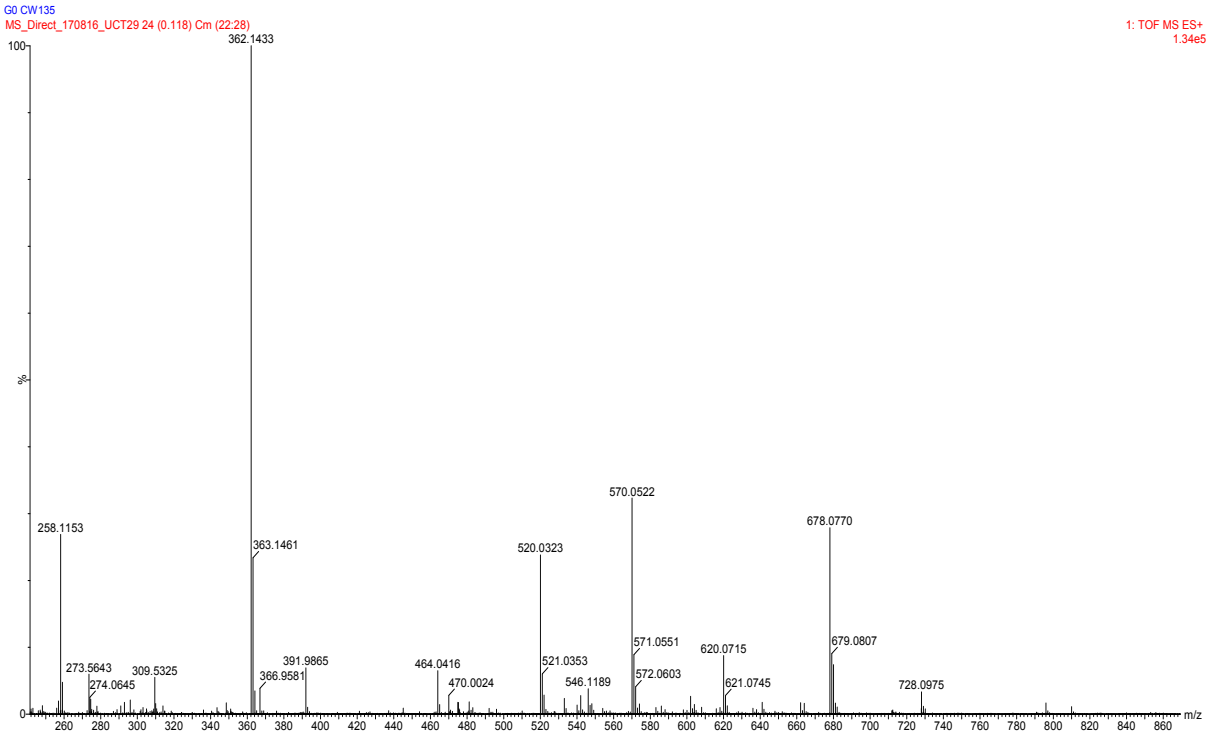


Figure S15: ESI-TOF-MS (+) of compound **7**.

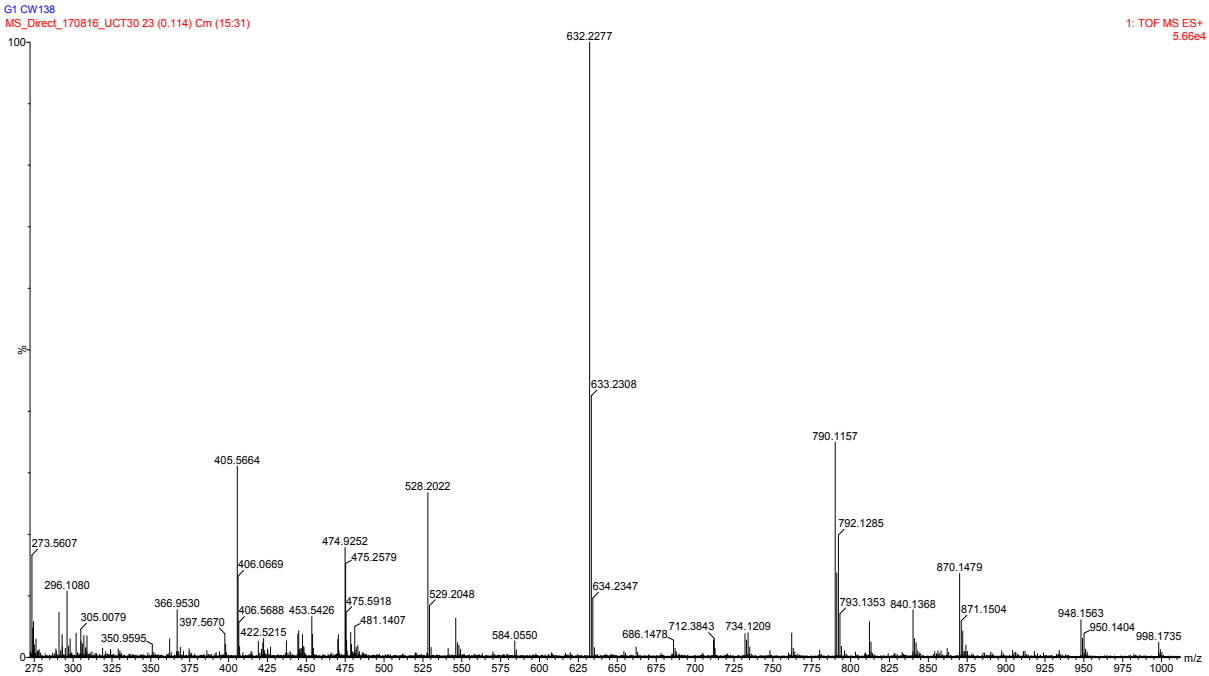


Figure S16: ESI-TOF-MS (+) of compound **8**.

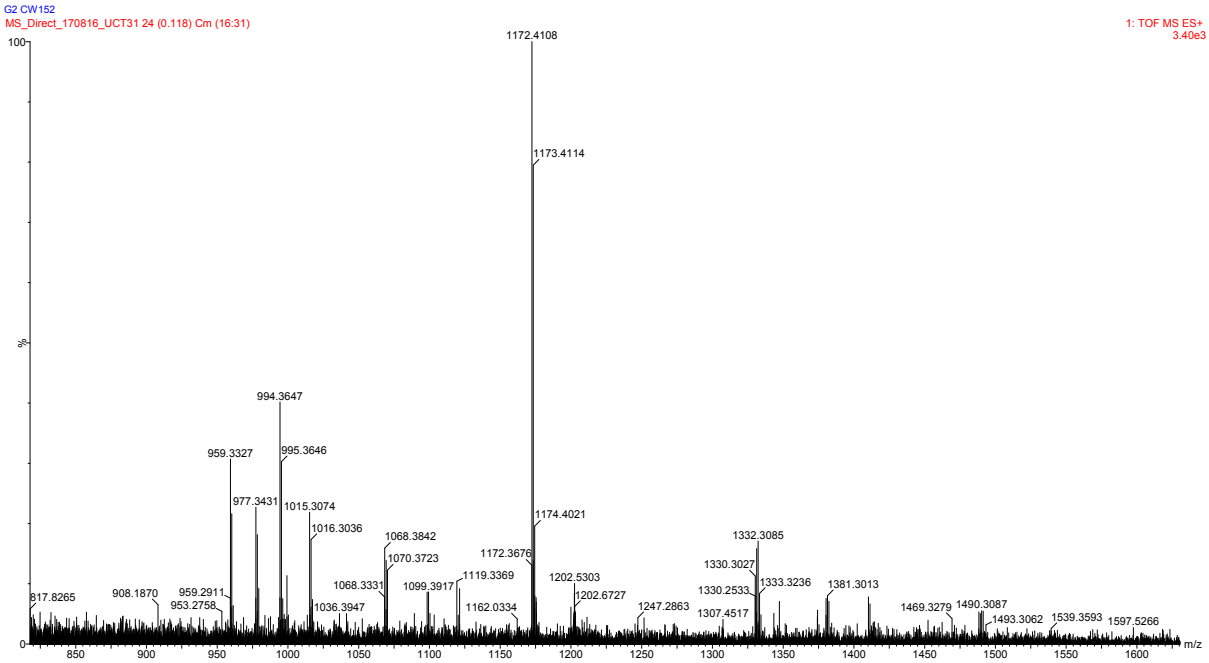


Figure S17: ESI-TOF-MS (+) of compound **9**.