SUPPLEMENTARY MATERIALS

Piperidinium and Pyrrolidinium Ionic Liquids as Precursors in the Synthesis of New Platinum Catalysts for Hydrosilylation

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Outline:

1. NMR Spectra of complexes
2. ESI-MS spectra of complexes
3. NMR spectra of isolated products

1. NMR Spectra of complexes

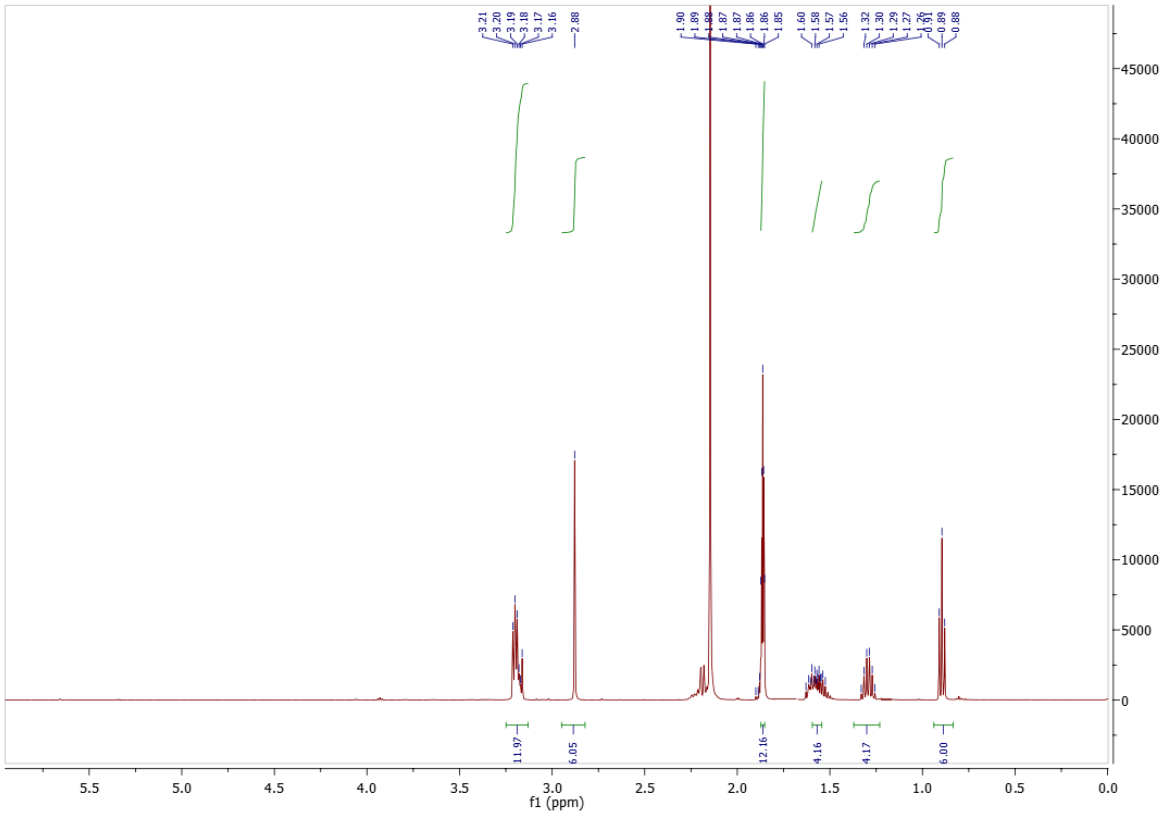

Figure S1: ^{1}H NMR spectrum of Bis(1-butyl-1-methylpiperidinium) Tetrachloroplatinate(II) $[BMPip]_2[PtCl_4]$

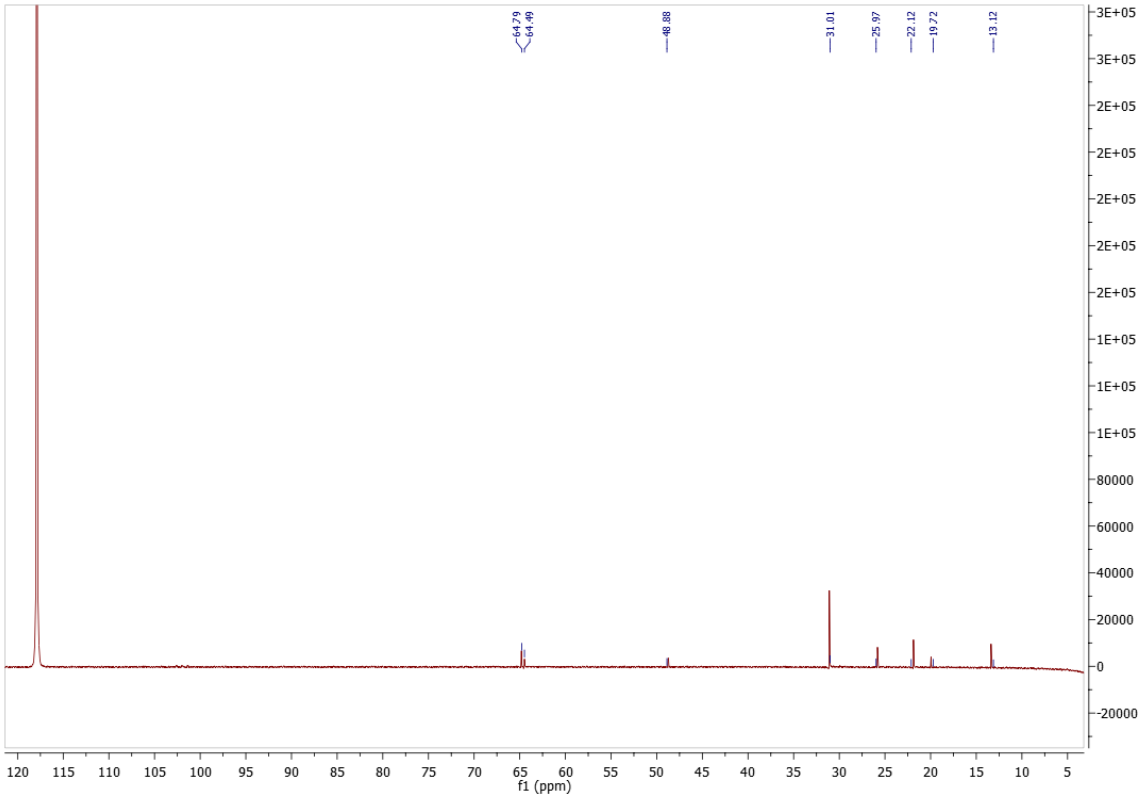

Figure S2: ^{13}C NMR spectrum of Bis(1-butyl-1-methylpiperidinium) Tetrachloroplatinate(II) $[BMPip]_2[PtCl_4]$

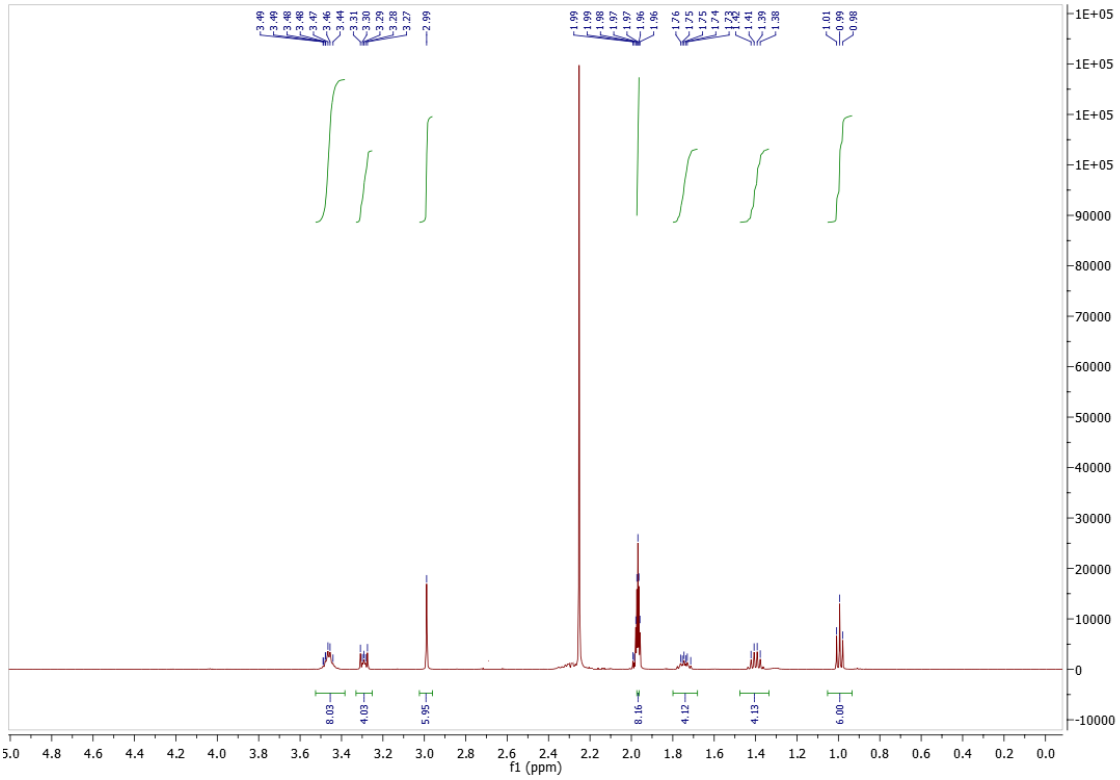

Figure S3: ^{1}H NMR spectrum of Bis(1-butyl-1-methylpyrrolidinium) Tetrachloroplatinate(II) $[BMPyrr]_2[PtCl_4]$

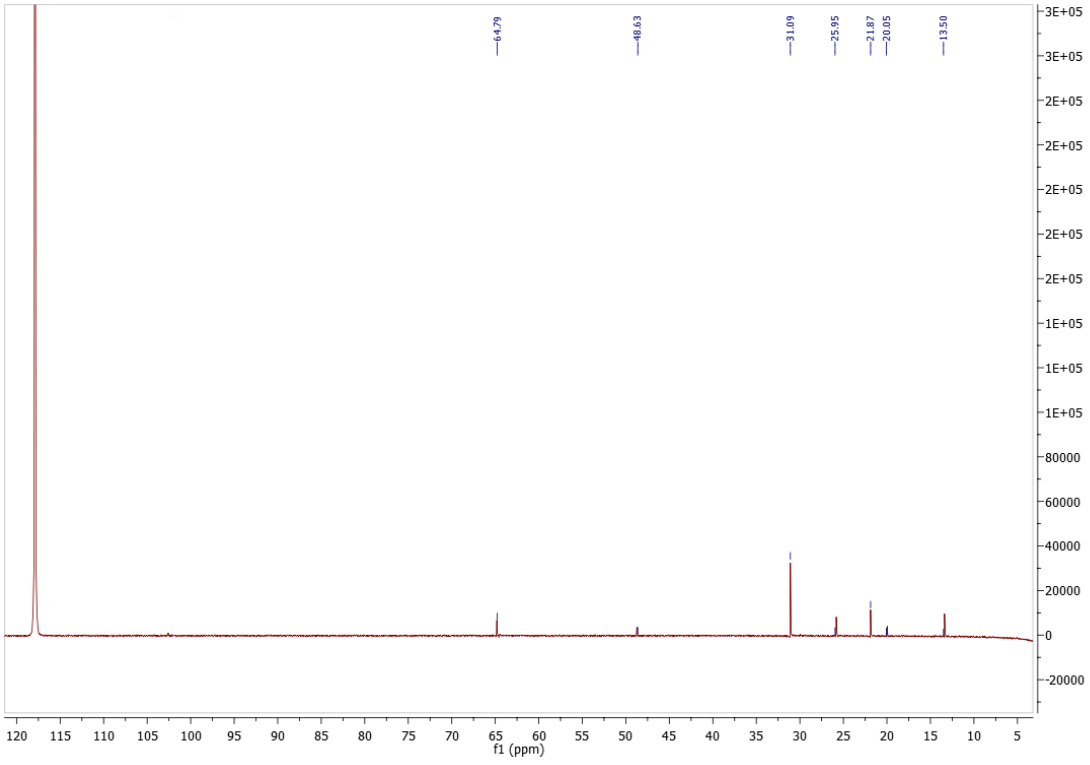

Figure S4: ^{13}C NMR spectrum of Bis(1-butyl-1-methylpyrrolidinium) Tetrachloroplatinate(II) $[BMPyrr]_2[PtCl_4]$

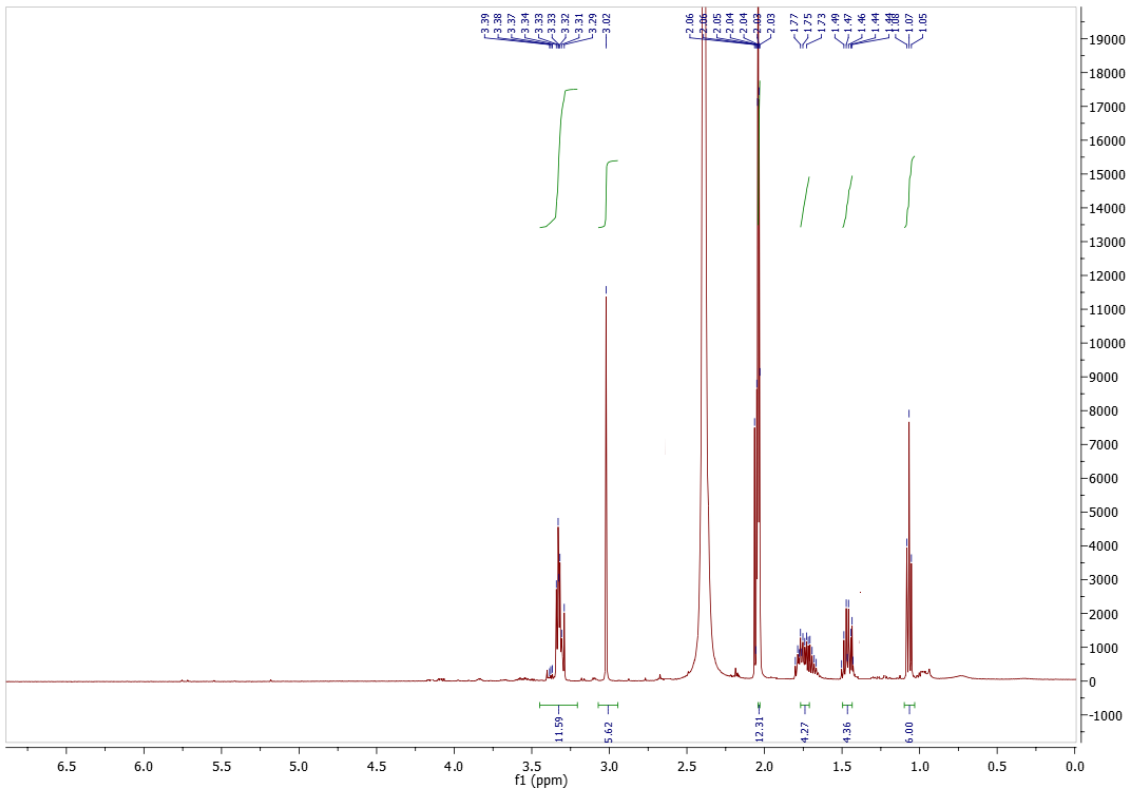

Figure S5: ^{1}H NMR spectrum of Bis(1-butyl-1-methylpiperidinium) Heksachloroplatinate(IV) $[BMPip]_2[PtCl_6]$

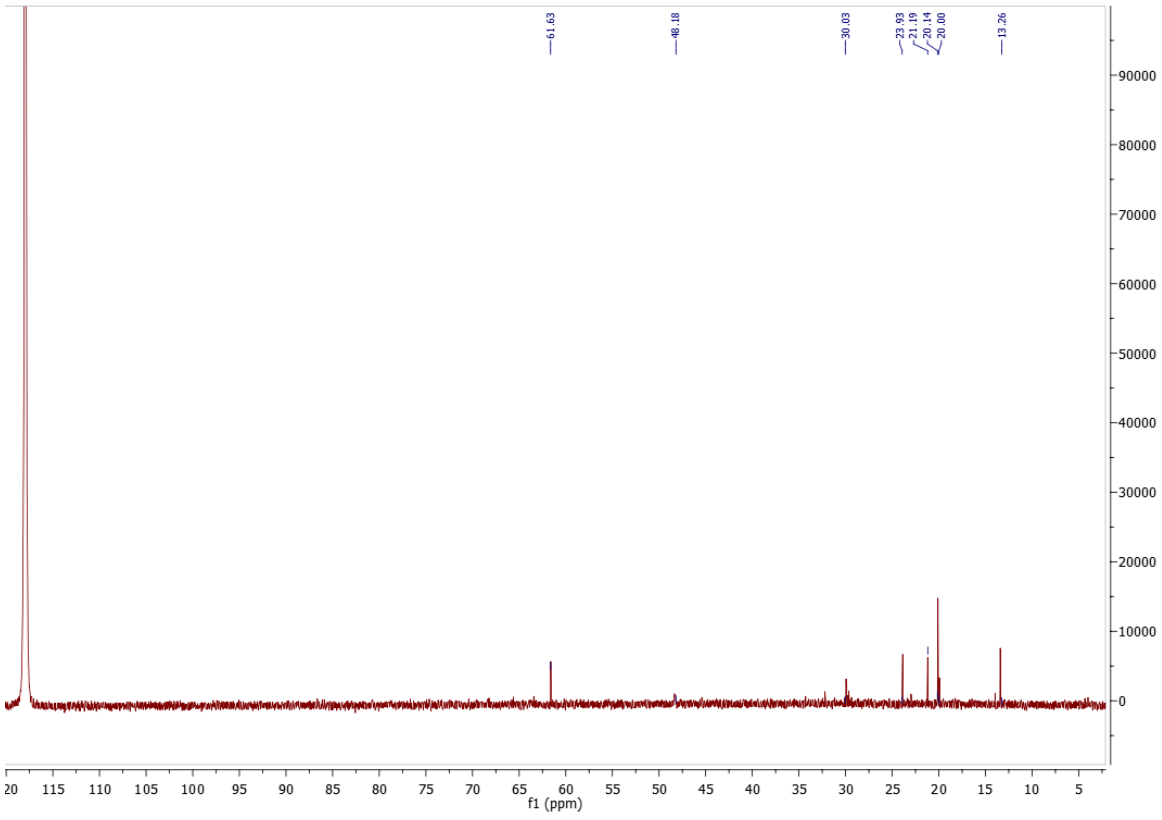

Figure S6: ^{13}C NMR spectrum of Bis(1-butyl-1-methylpiperidinium) Heksachloroplatinate(IV) $[BMPip]_2[PtCl_6]$

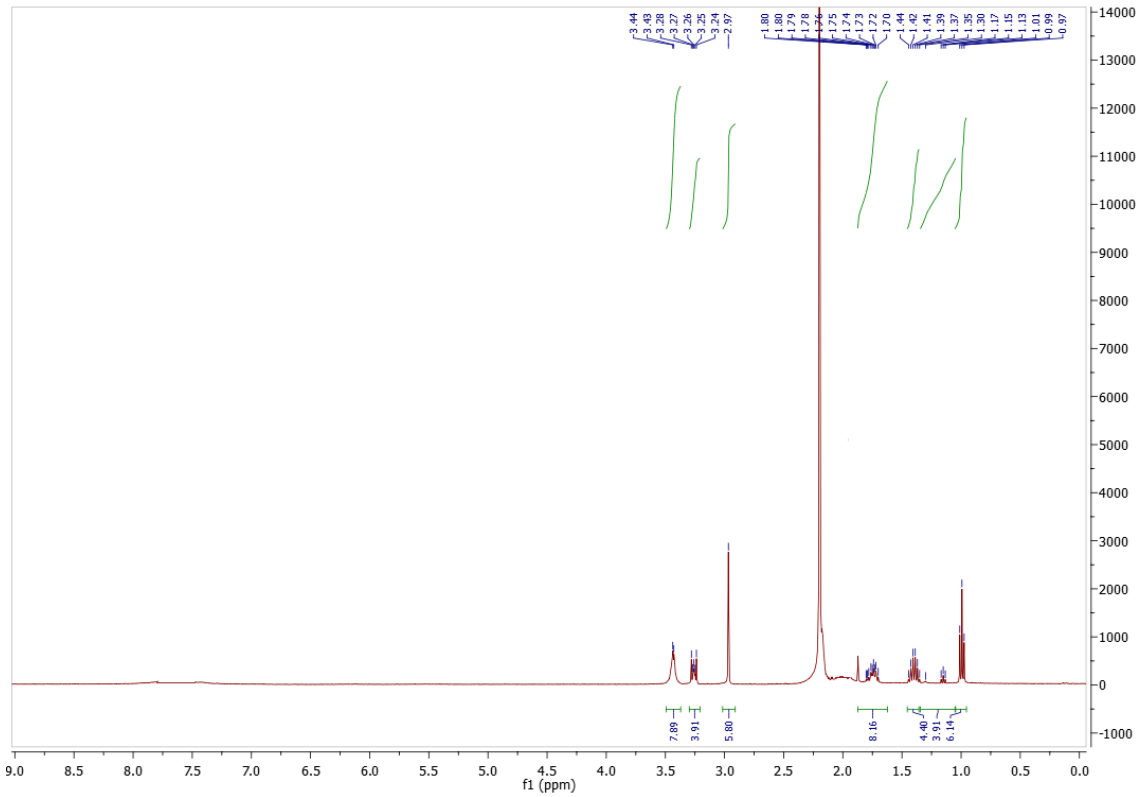

Figure S7: ^{1}H NMR spectrum of Bis(1-butyl-1-methylpyrrolidinium) Heksachloroplatinate(IV) $[BMPyrr]_2[PtCl_6]$

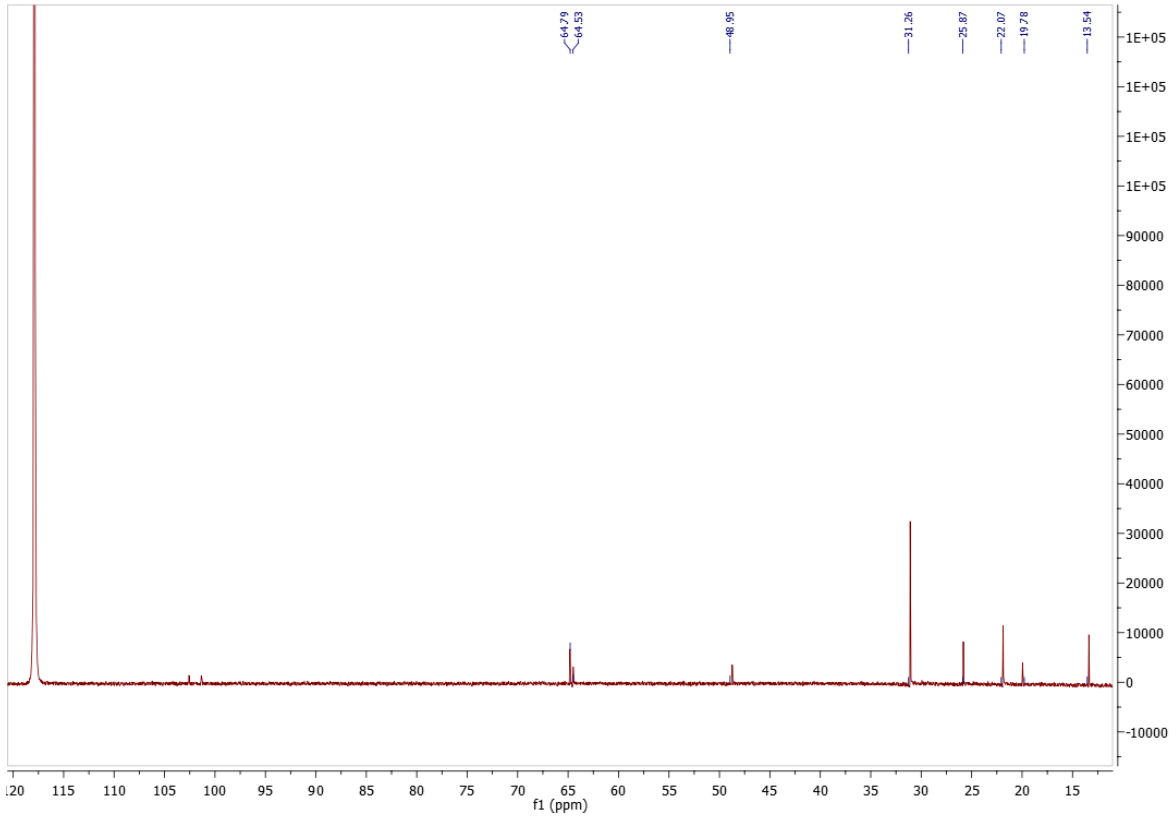

Figure S8: ^{13}C NMR spectrum of Bis(1-butyl-1-methylpyrrolidinium) Heksachloroplatinate(IV) $[BMPyrr]_2[PtCl_6]$

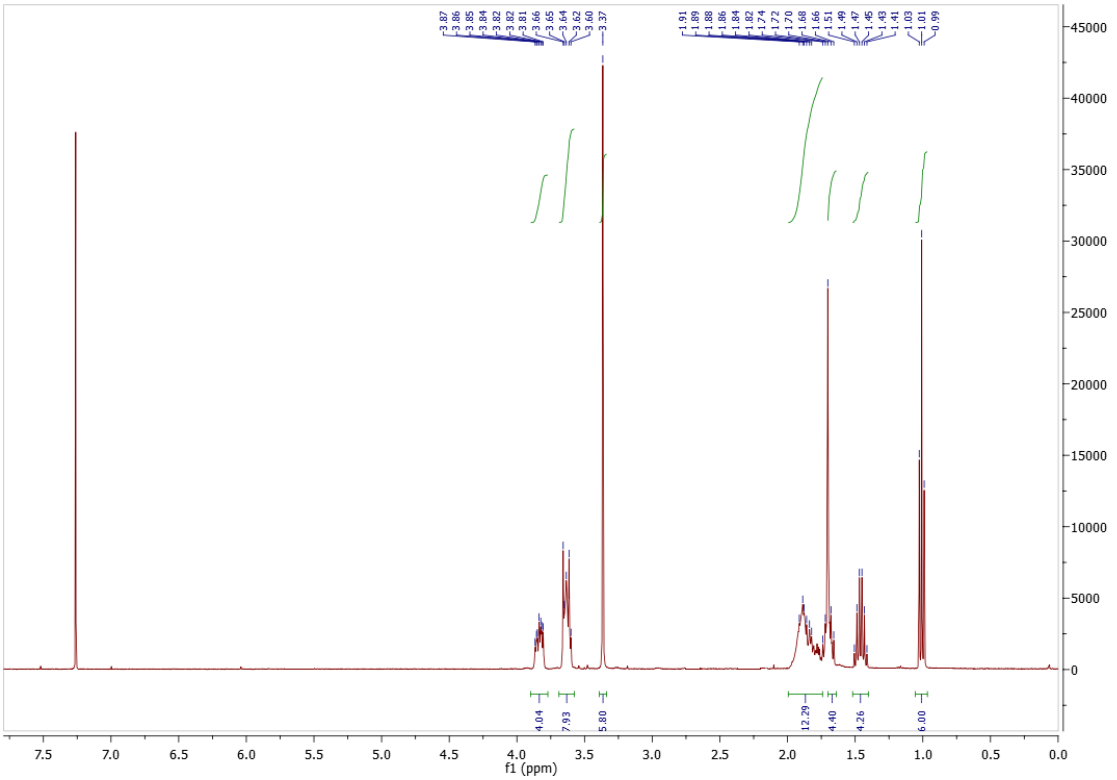

Figure S9: ^{1}H NMR spectrum of Bis(1-butyl-1-methylpiperidinium) Hexachlorodiplatinate(II) $[BMPip]_2[Pt_2Cl_6]$

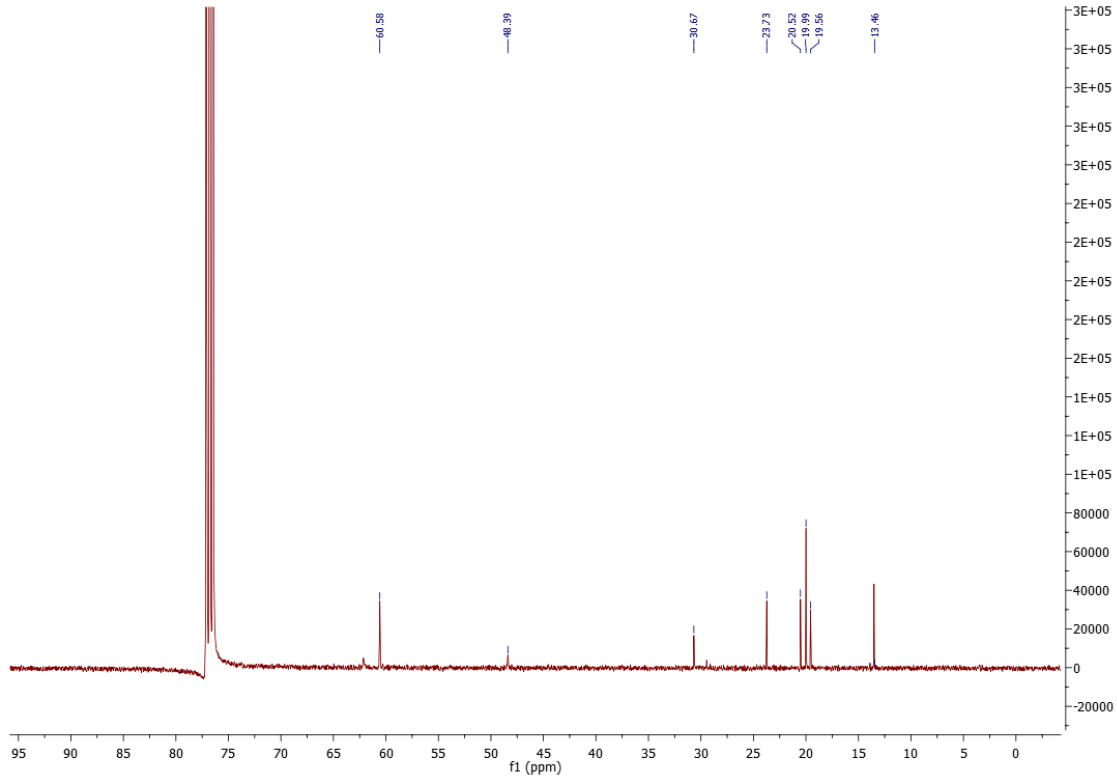

Figure S10: ^{13}C NMR spectrum of Bis(1-butyl-1-methylpiperidinium) Hexachlorodiplatinate(II) $[BMPip]_2[Pt_2Cl_6]$

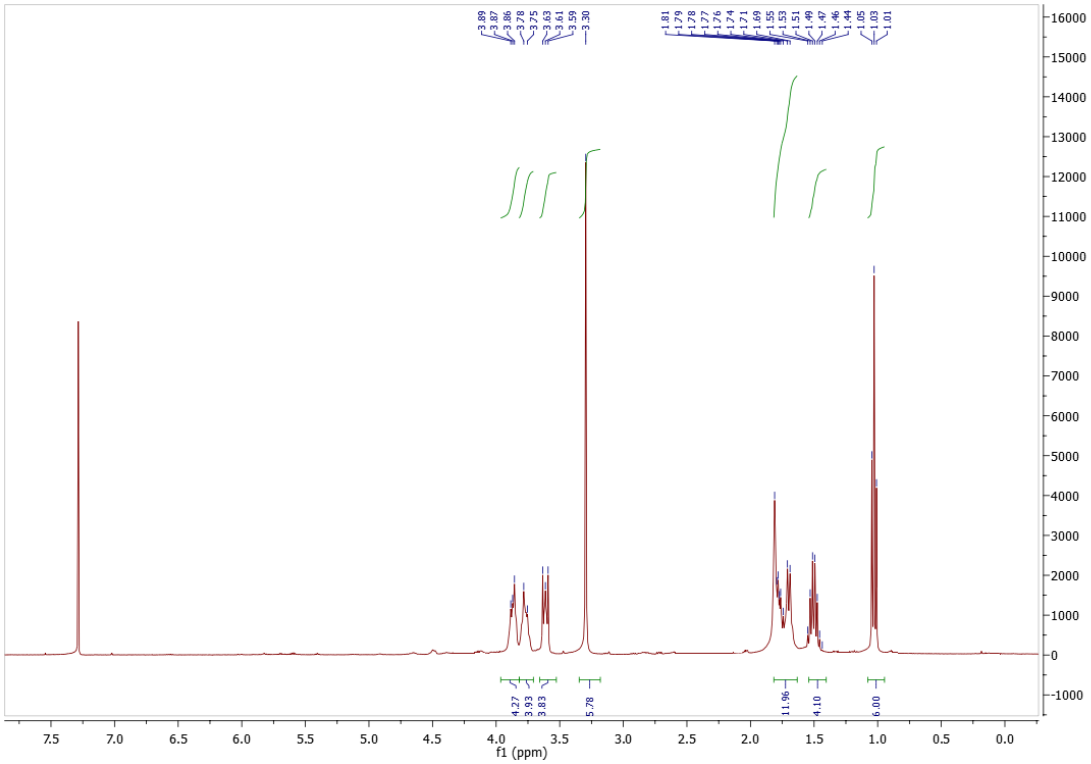

Figure S11: ^{1}H NMR spectrum of Bis(1-butyl-1-methylpyrrolidinium) Hexachlorodiplatinate(II) $[BMPyrr]_2[Pt_2Cl_6]$

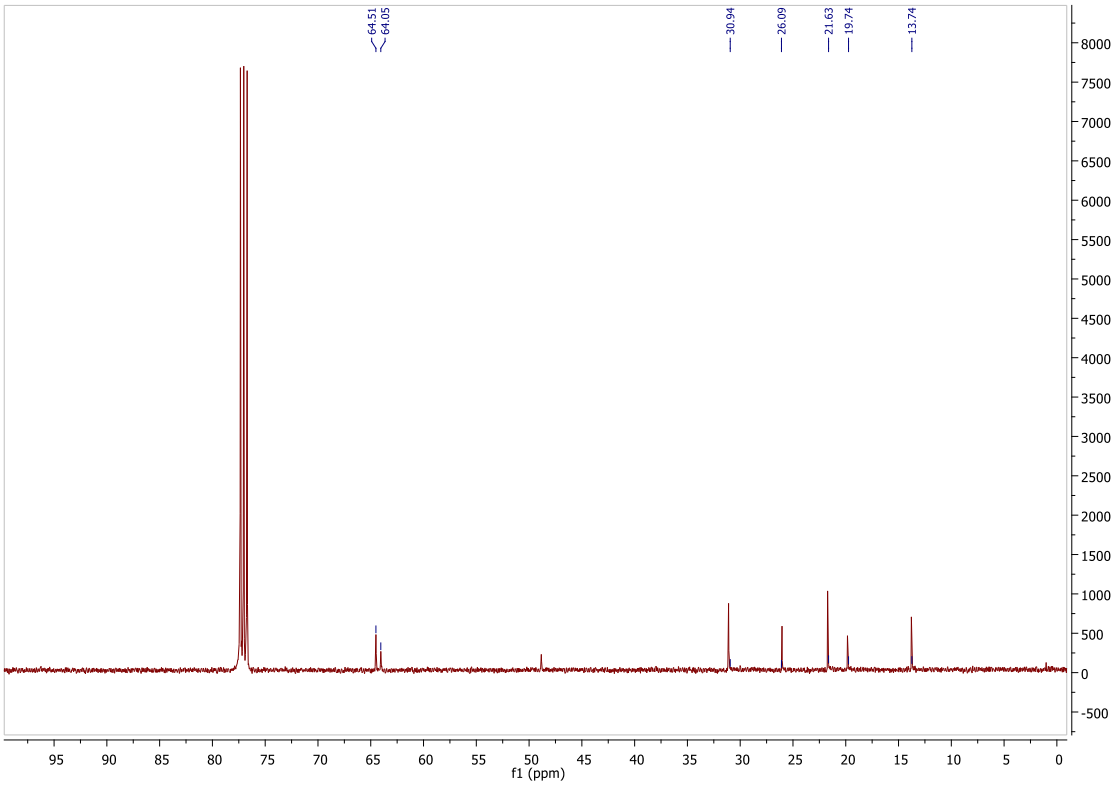

Figure S12: ^{13}C NMR spectrum of Bis(1-butyl-1-methylpyrrolidinium) Hexachlorodiplatinate(II) $[BMPyrr]_2[Pt_2Cl_6]$

2. **ESI-MS spectra of complexes**

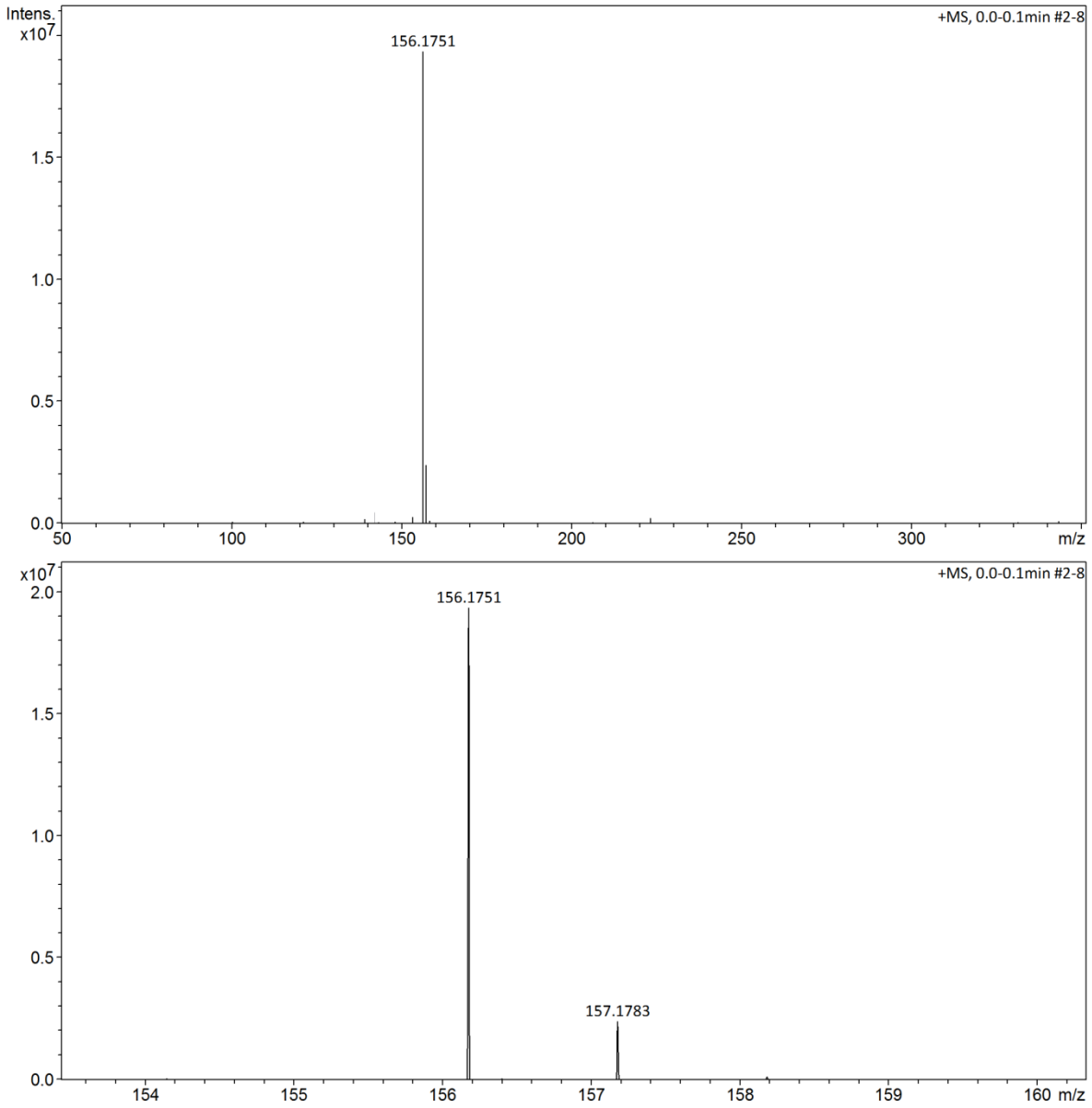

Figure S13: ESI-MS(+) of $[BMPip]_2[PtCl_4]$

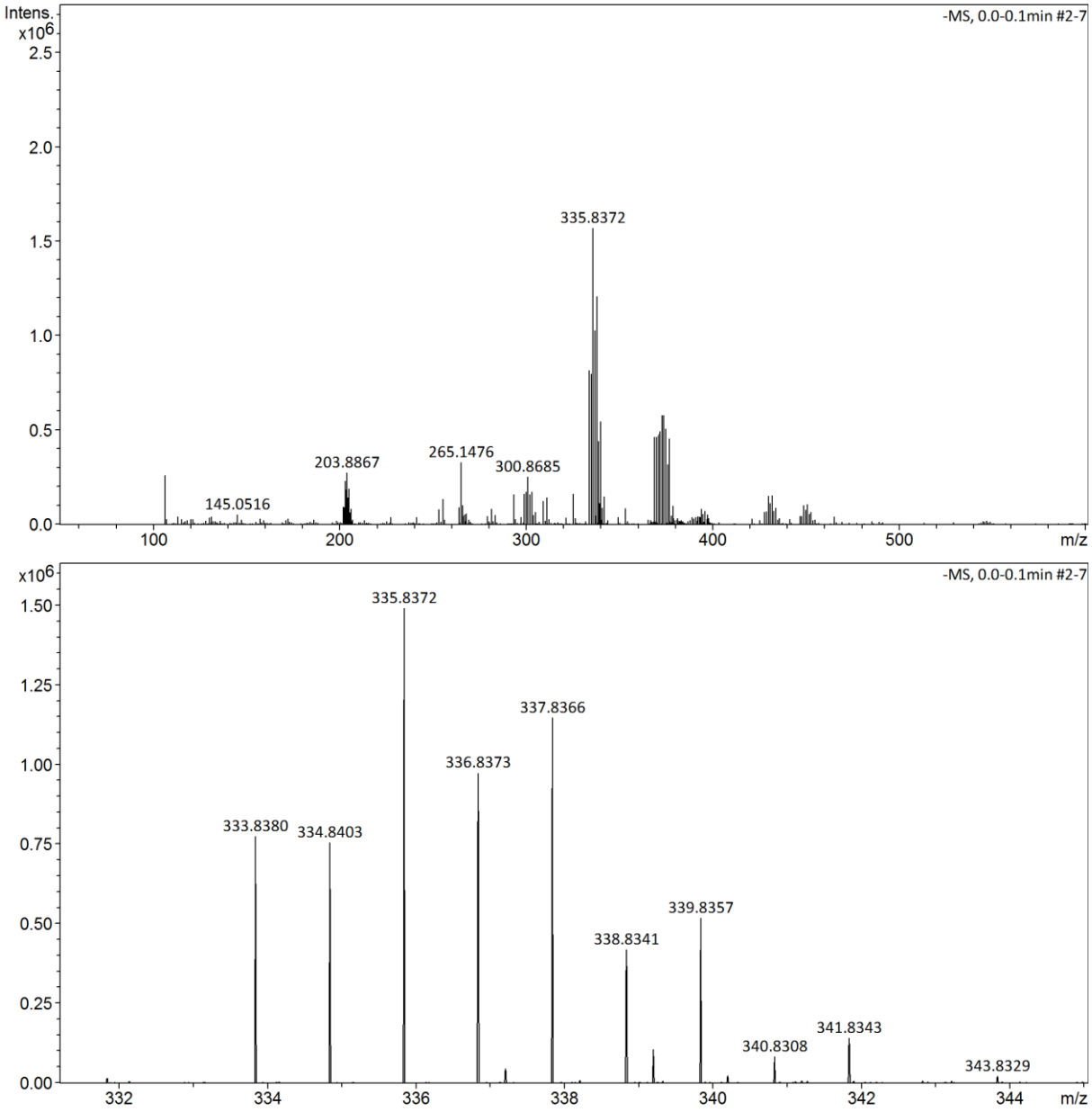

Figure S14: ESI-MS(-) of $[BMPip]_2[PtCl_4]$

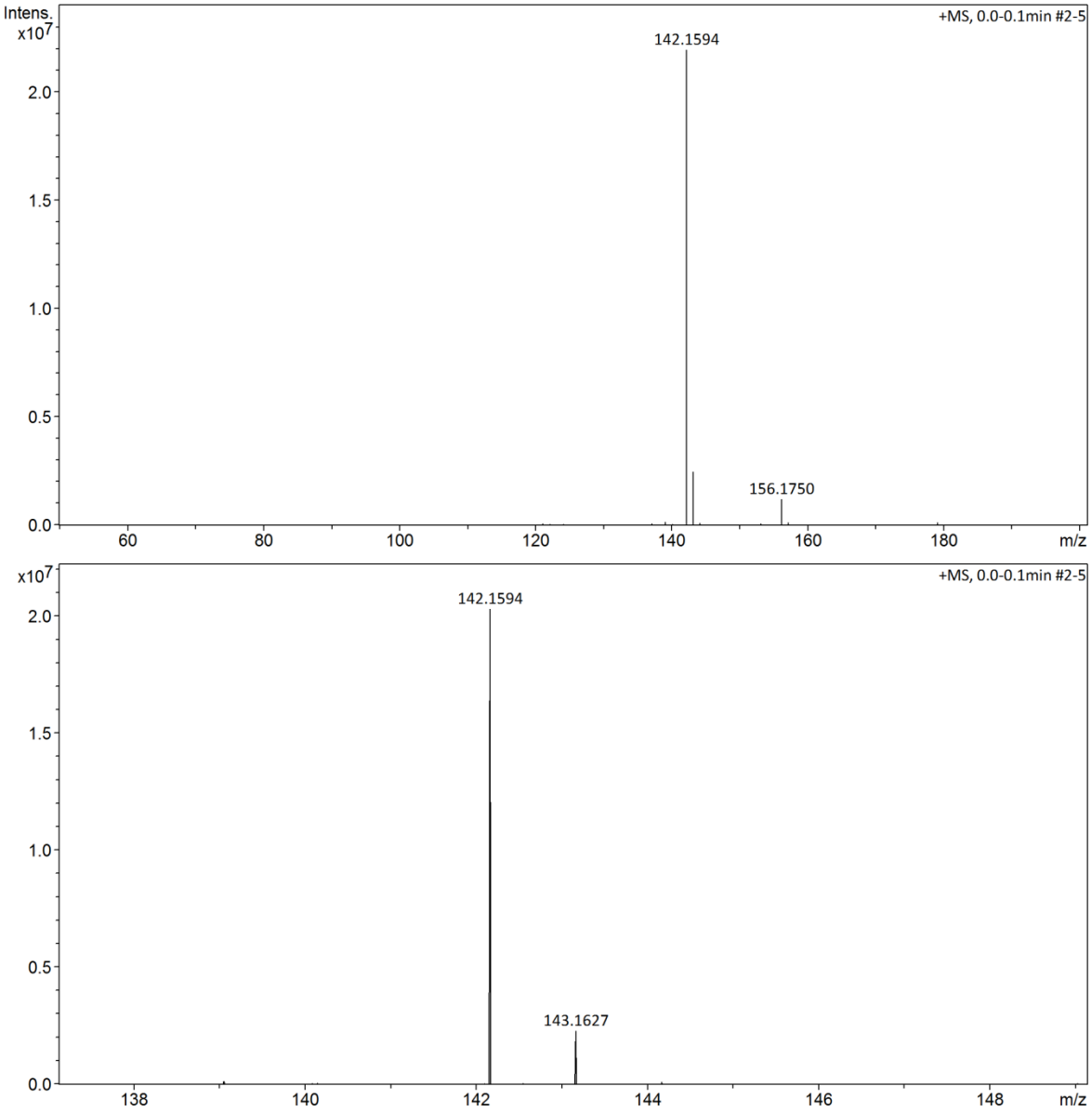

Figure S15: ESI-MS(+) of $[BMPyrr]_2[PtCl_4]$

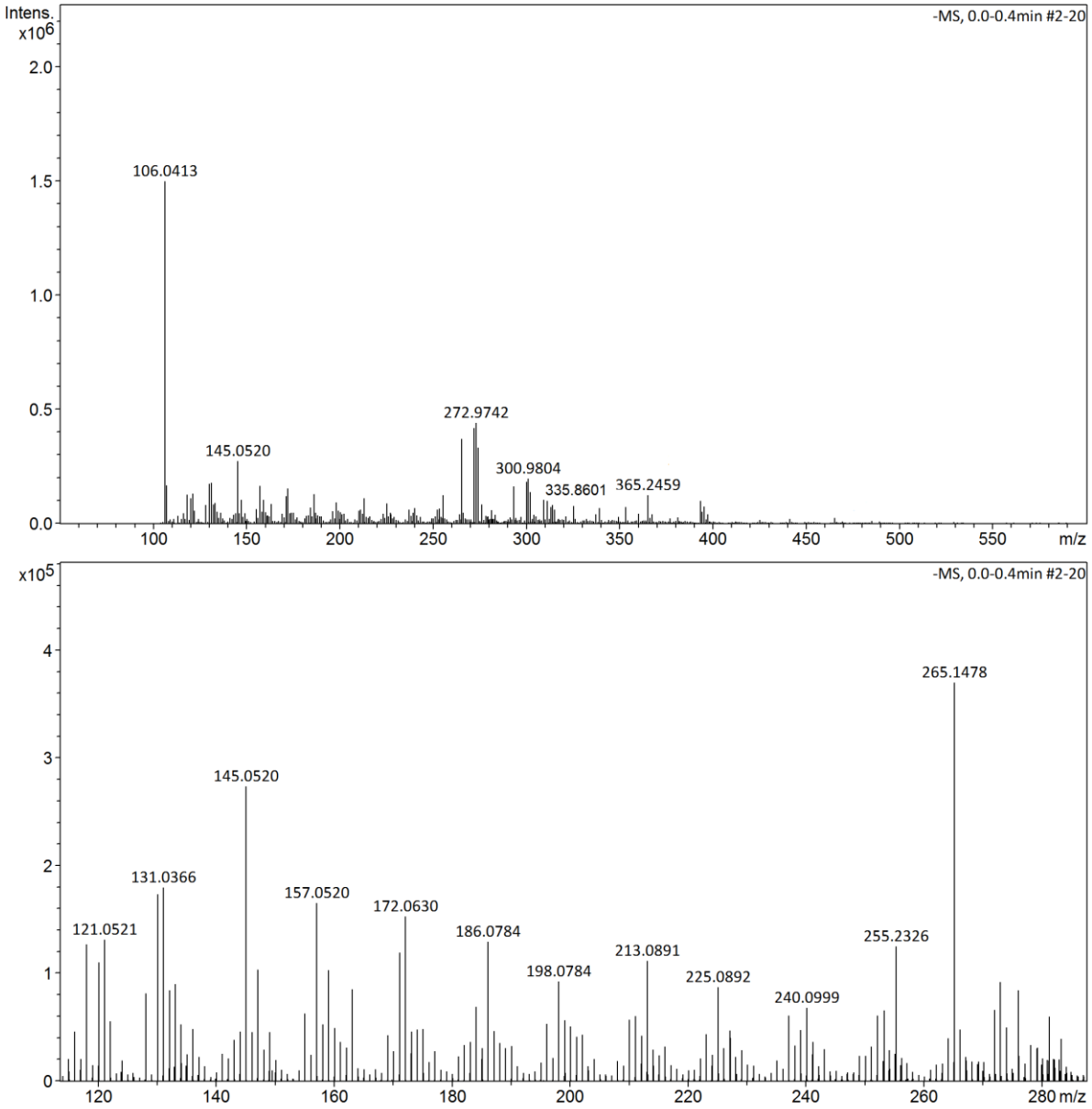

Figure S16: ESI-MS(-) of $[BMPyrr]_2[PtCl_4]$

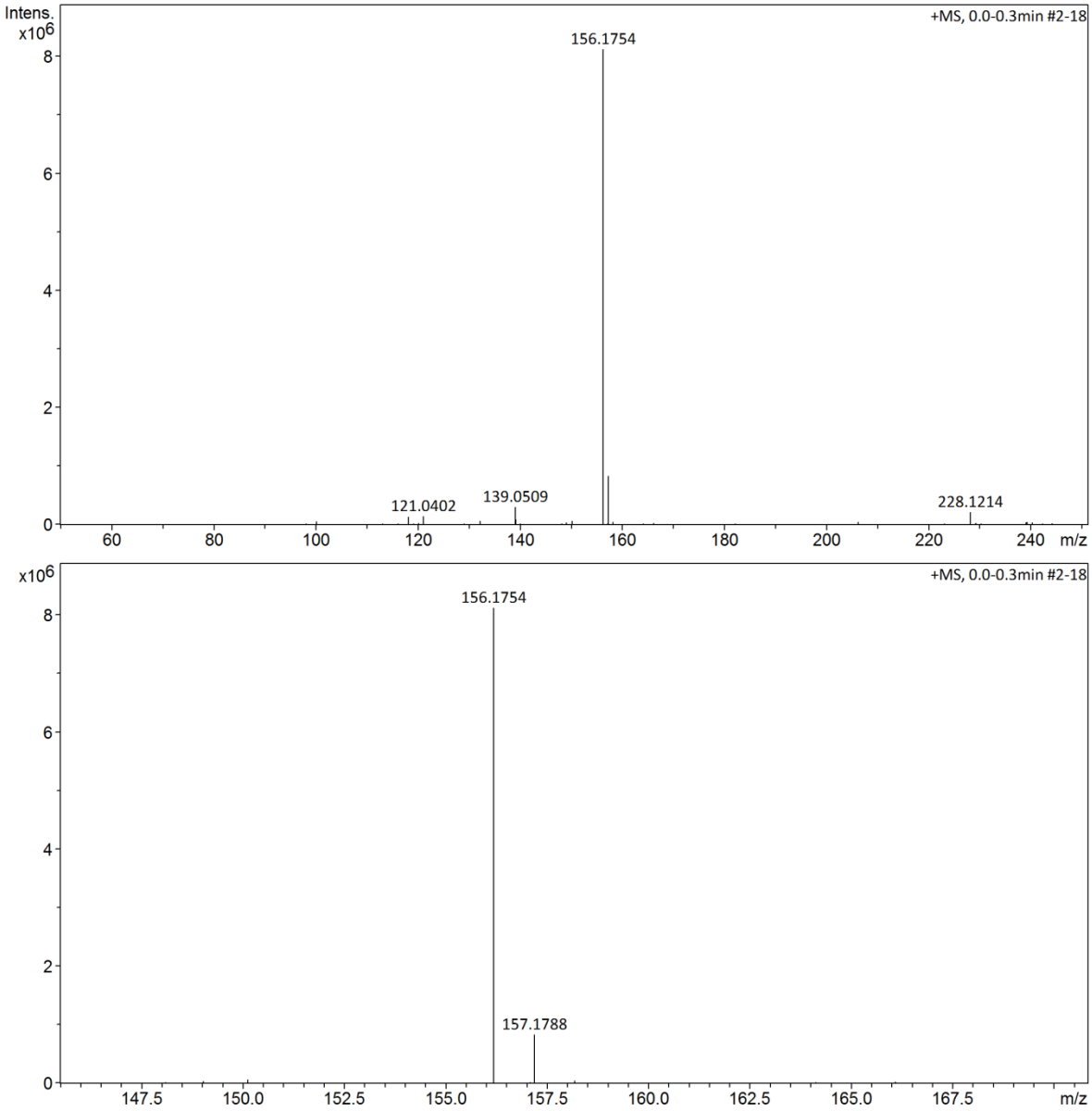

Figure S17: ESI-MS(+) of $[BMPip]_2[Pt_2Cl_6]$

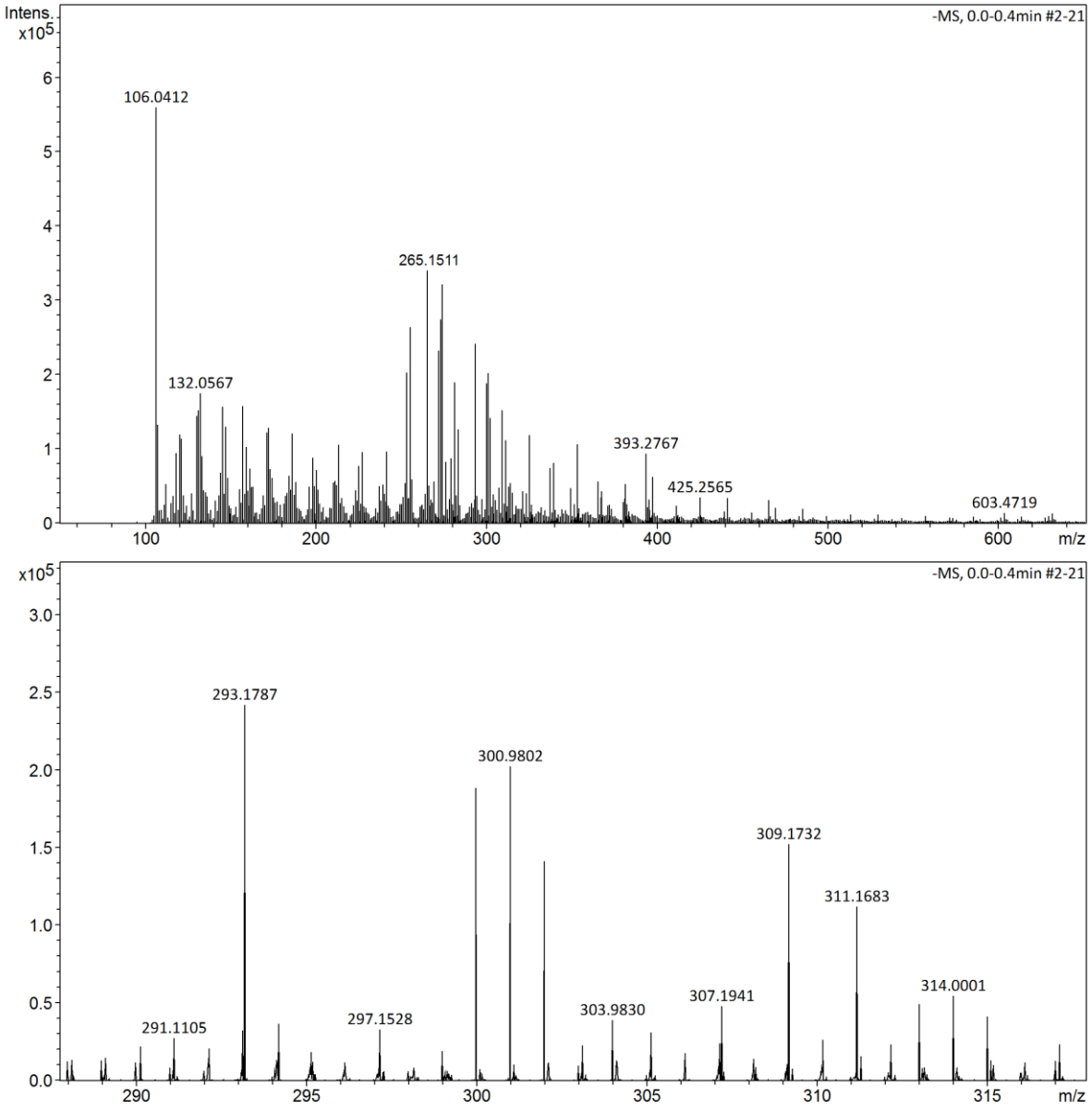

Figure S18: ESI-MS(-) of $[BMPip]_2[Pt_2Cl_6]$

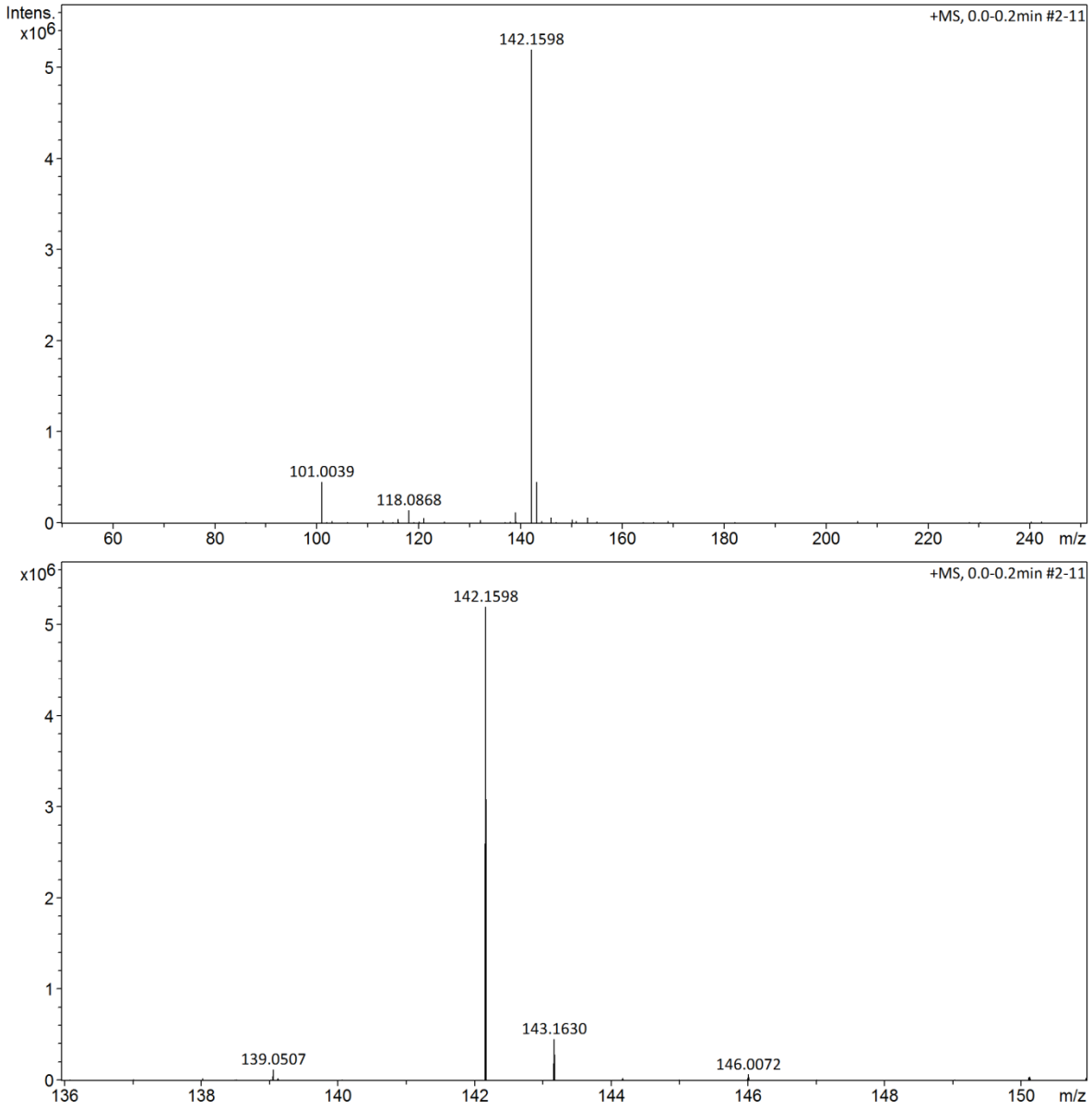

Figure S19: ESI-MS(+) of $[BMPyrr]_2[Pt_2Cl_6]$

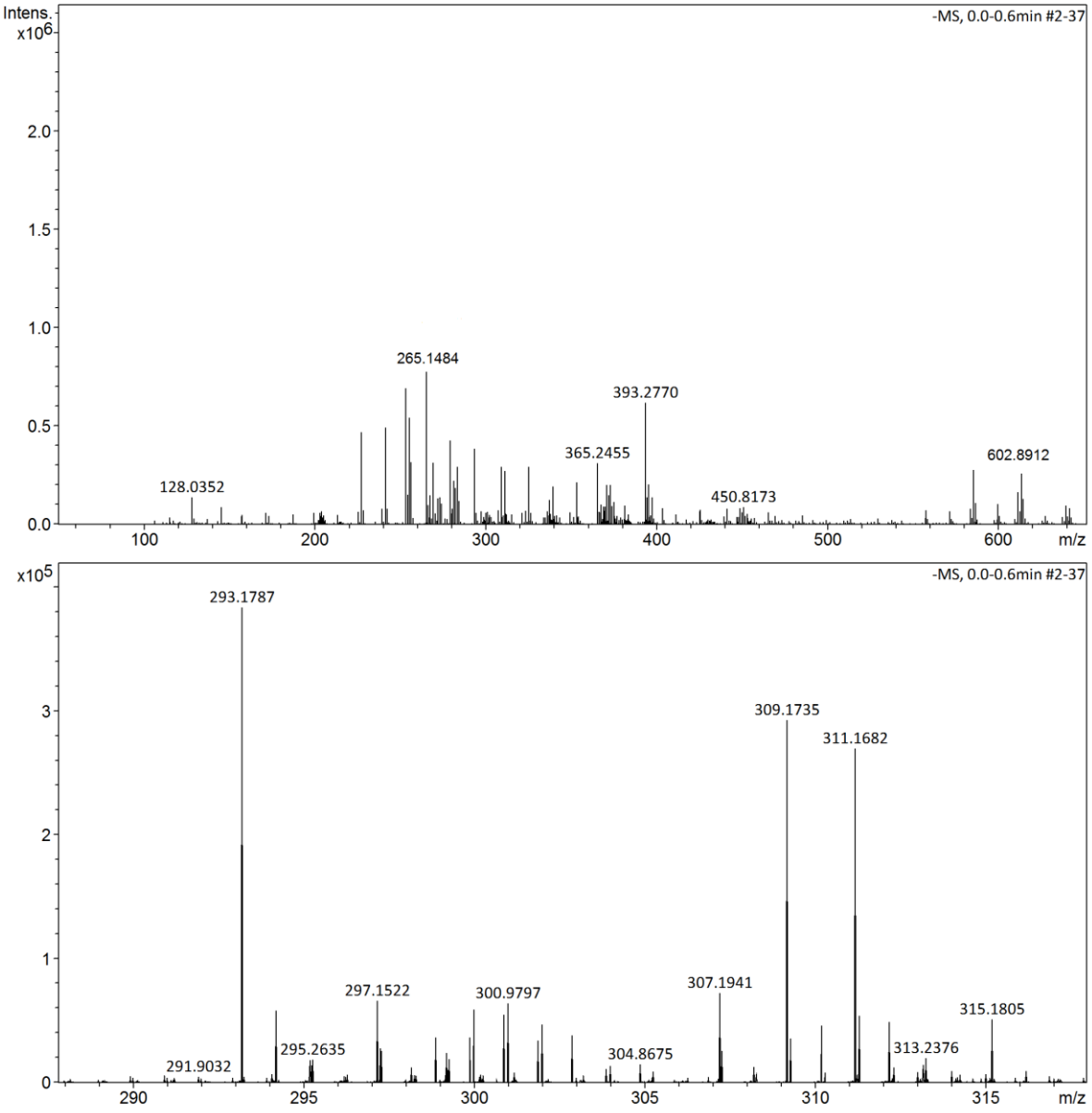

Figure S20: ESI-MS(-) of $[BMPyrr]_2[Pt_2Cl_6]$

3. NMR spectra of isolated products

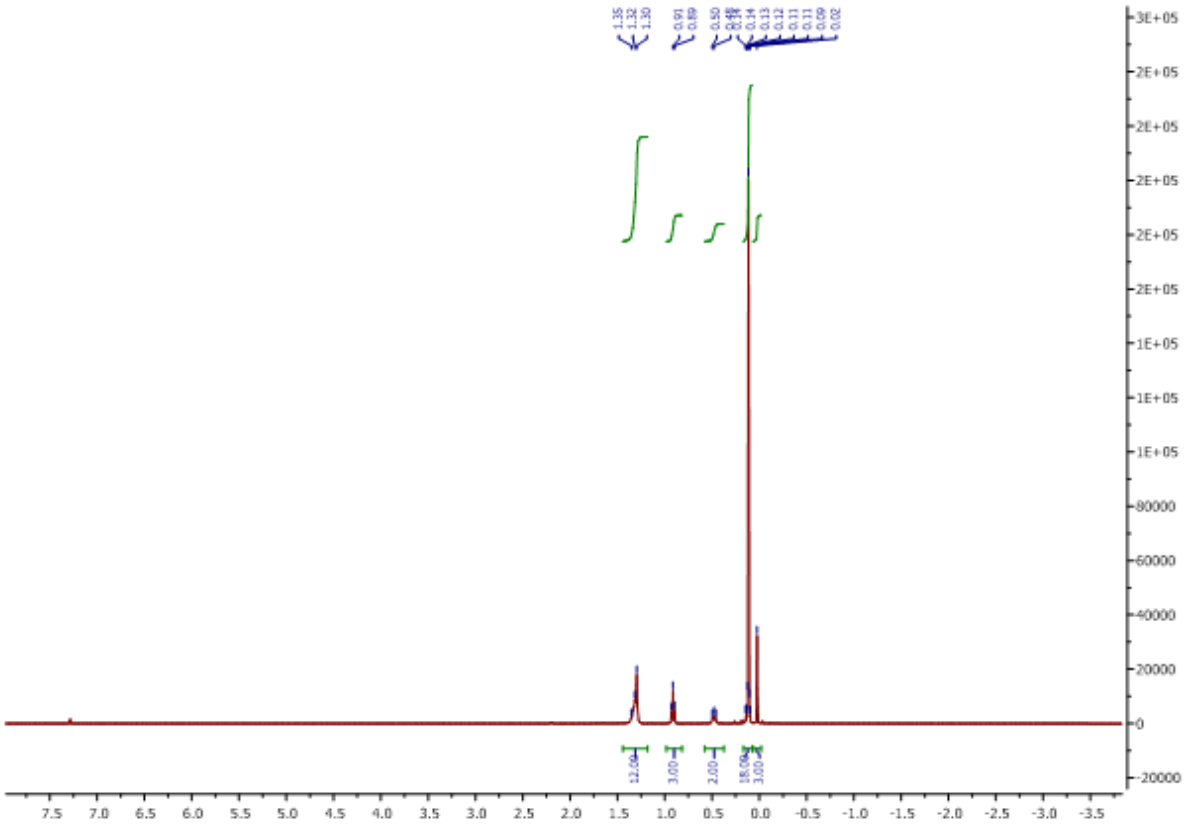

Figure S21: ^{1}H NMR spectrum of 3-octyl-1,1,1,3,5,5,5-heptamethyltrisiloxane

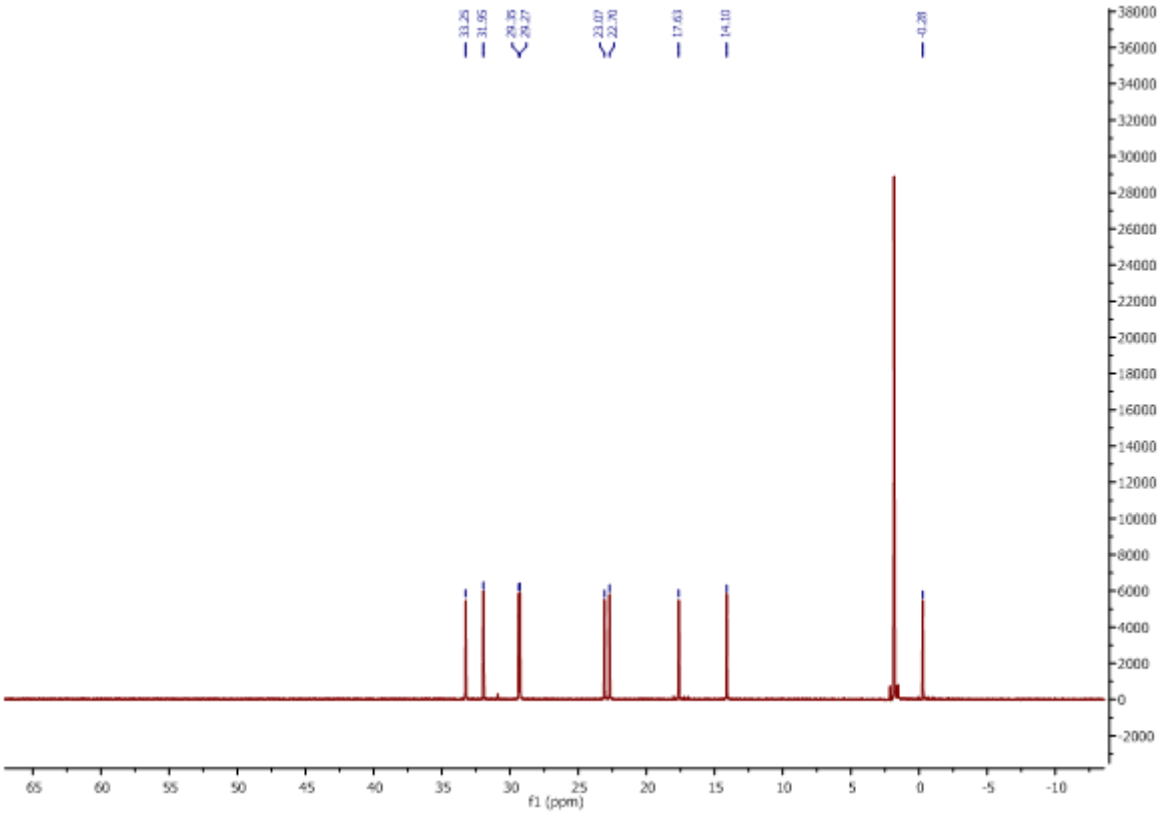

Figure S22: ^{13}C NMR spectrum of 3-octyl-1,1,1,3,5,5,5-heptamethyltrisiloxane

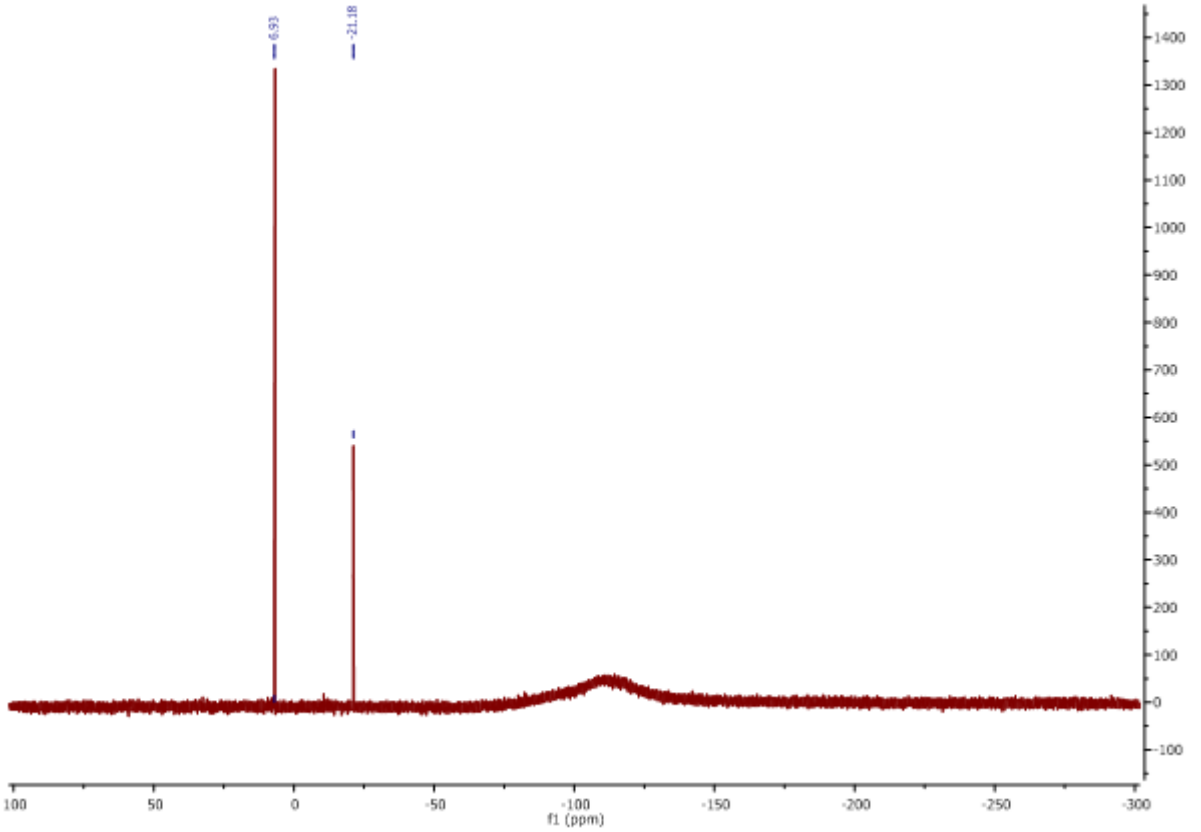

Figure S23: ^{29}Si NMR spectrum of 3-octyl-1,1,1,3,5,5,5-heptamethyltrisiloxane.

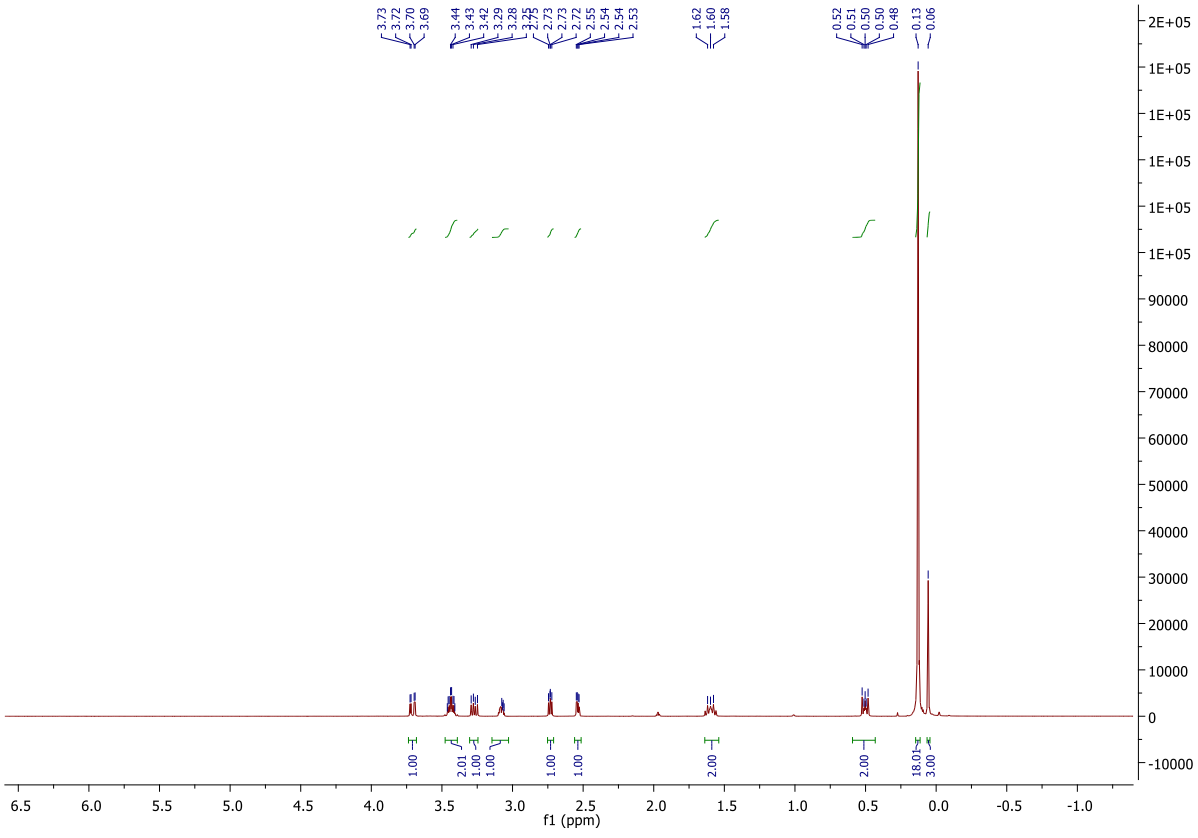

Figure S24: [1]H NMR spectrum of 3-(3-glycidyloxypropyl)-1,1,1,3,5,5,5-heptamethyltrisiloxane.

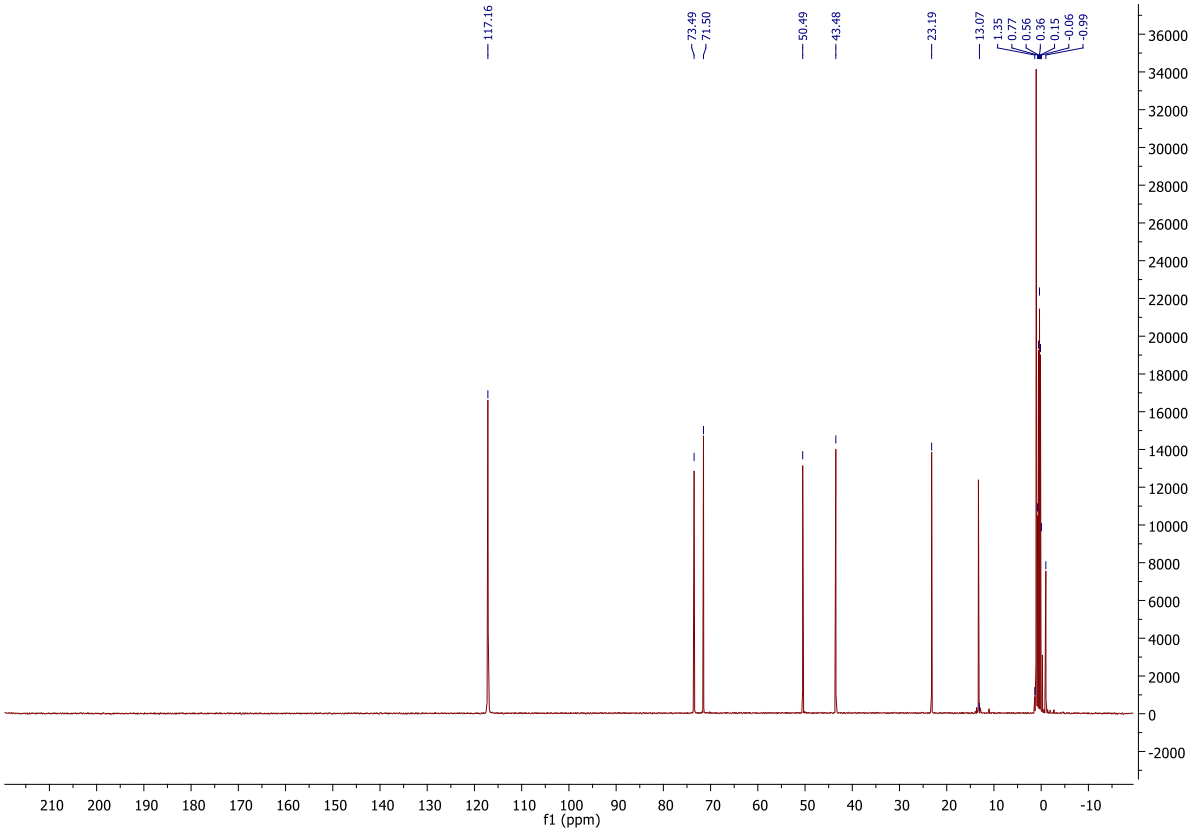

Figure S25: [13]C NMR spectrum of 3-(3-glycidyloxypropyl)-1,1,1,3,5,5,5-heptamethyltrisiloxane.

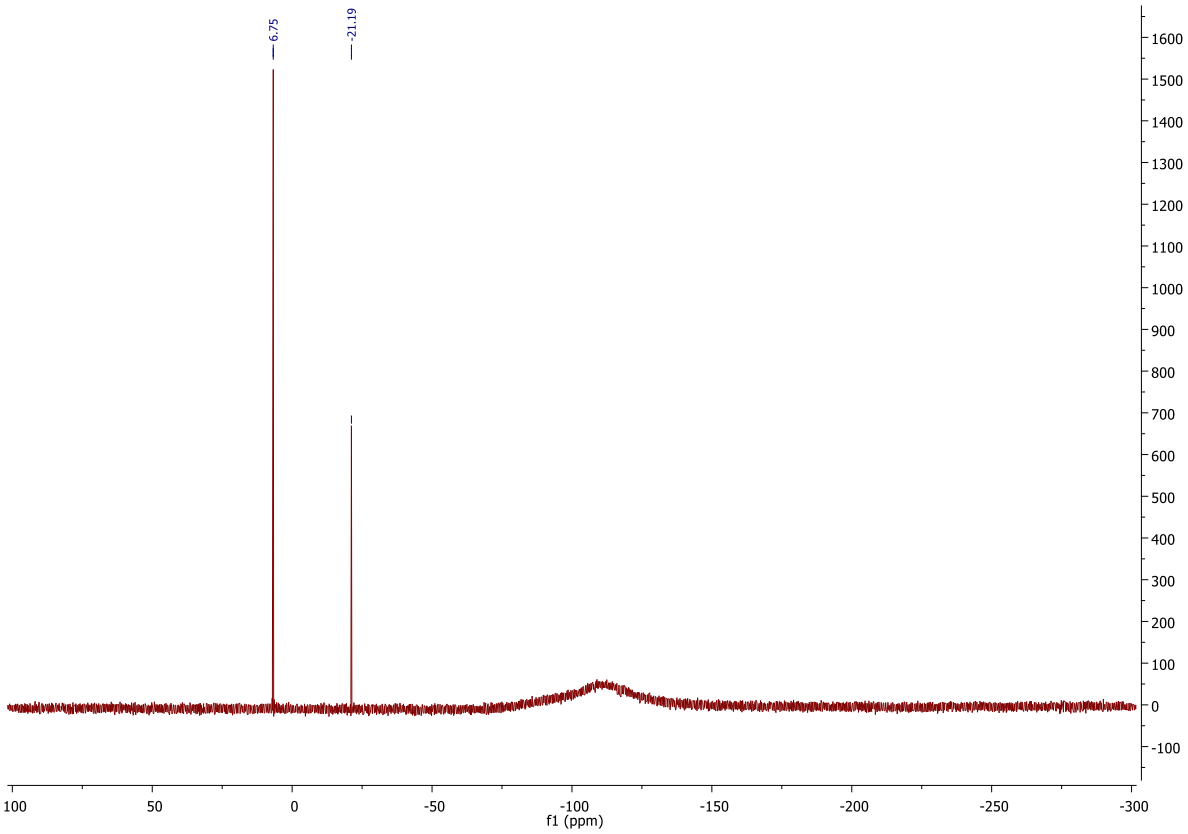

Figure S26: [29]Si NMR spectrum of 3-(3-glycidyloxypropyl)-1,1,1,3,5,5,5-heptamethyltrisiloxane.