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Supplementary File

Towards Volatile Organoselenium Compounds with Cost-Effective Synthesis

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1. NMR Spectra of *i*Pr$_3$Si-SeH

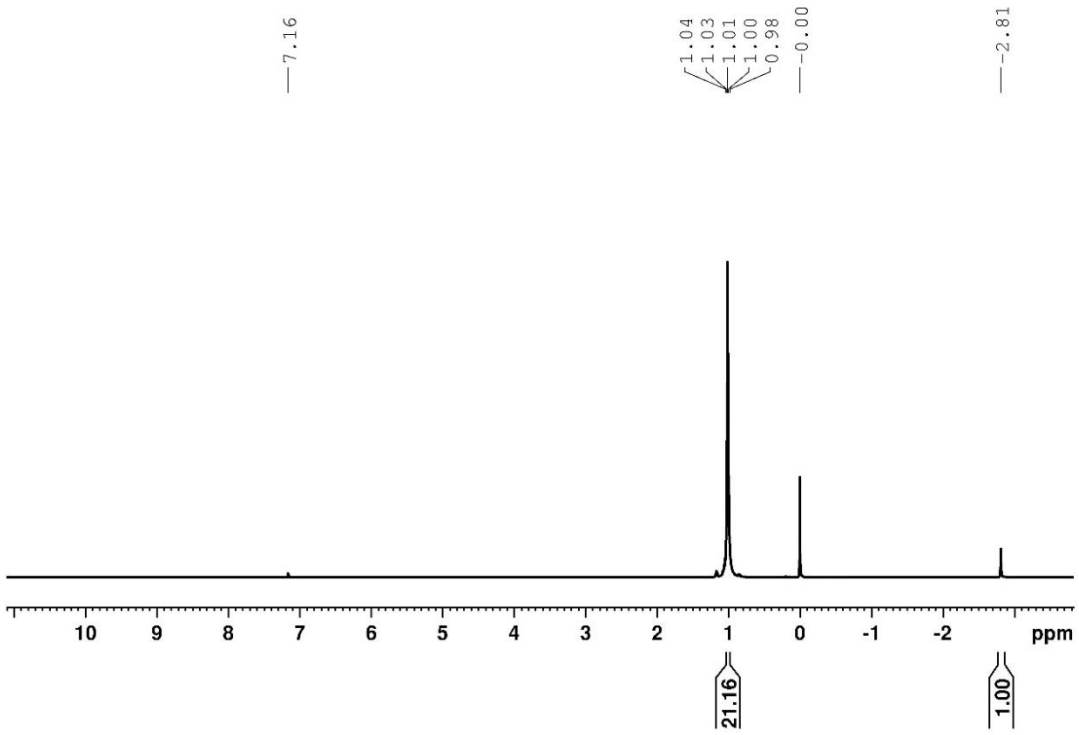

Figure S1. ^{1}H NMR (400 MHz, 25 °C, C_6D_6) spectrum of *i*Pr$_3$Si-SeH.

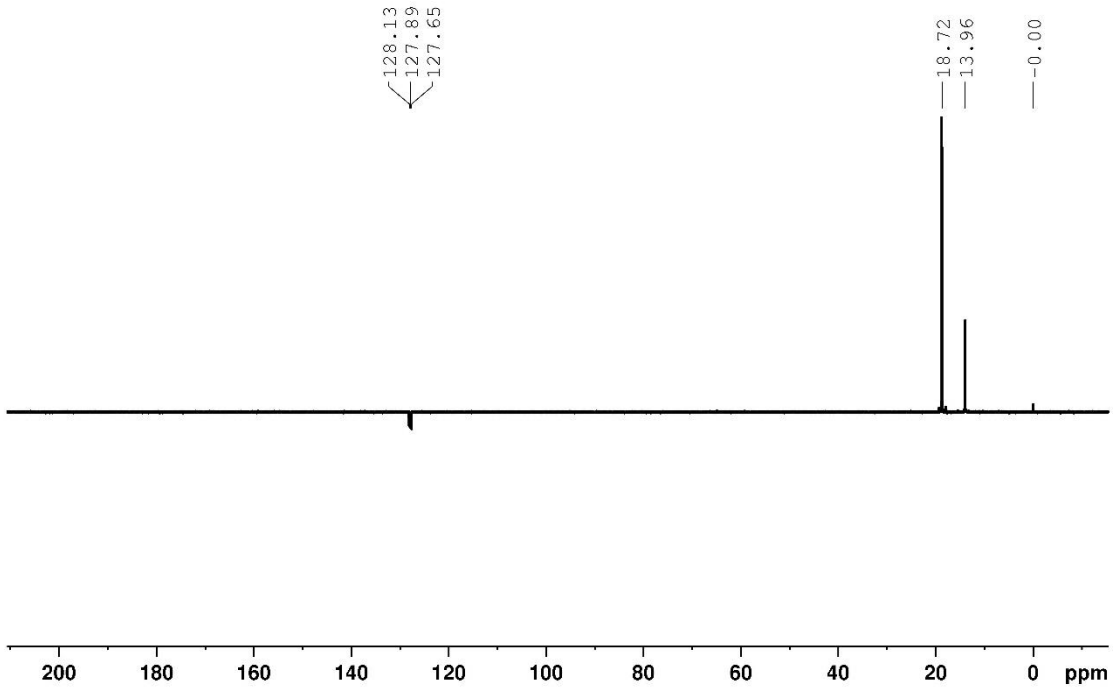

Figure S2. ^{13}C-NMR (125 MHz, 25 °C, C_6D_6) spectrum of *i*Pr$_3$Si-SeH.

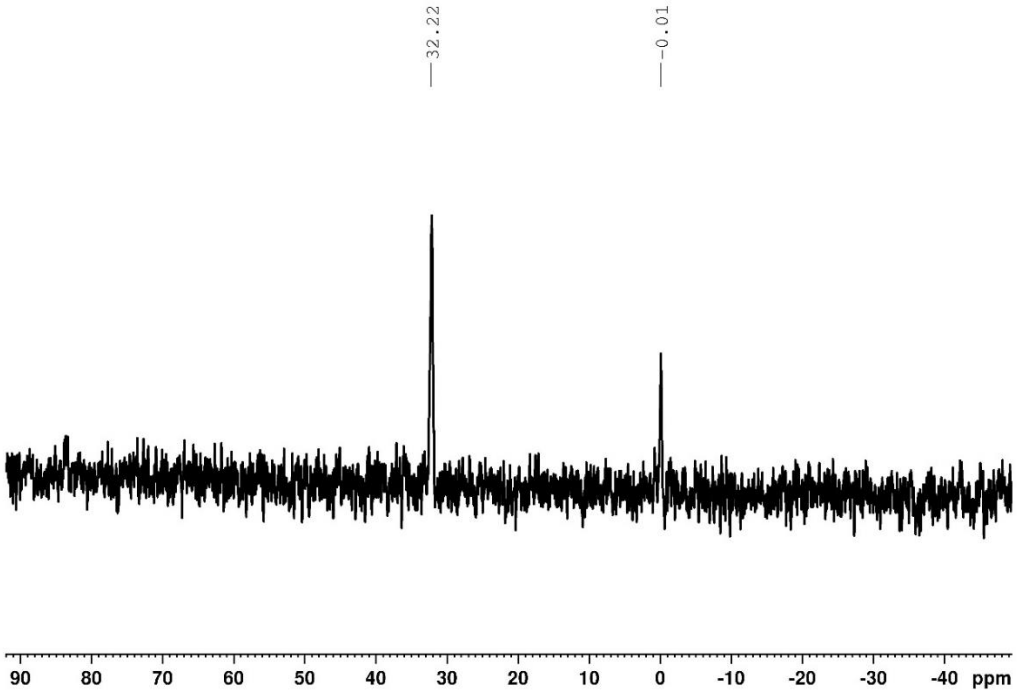

Figure S3. ^{29}Si-NMR (99 MHz, 25 °C, C_6D_6) spectrum of *i*Pr$_3$Si-SeH.

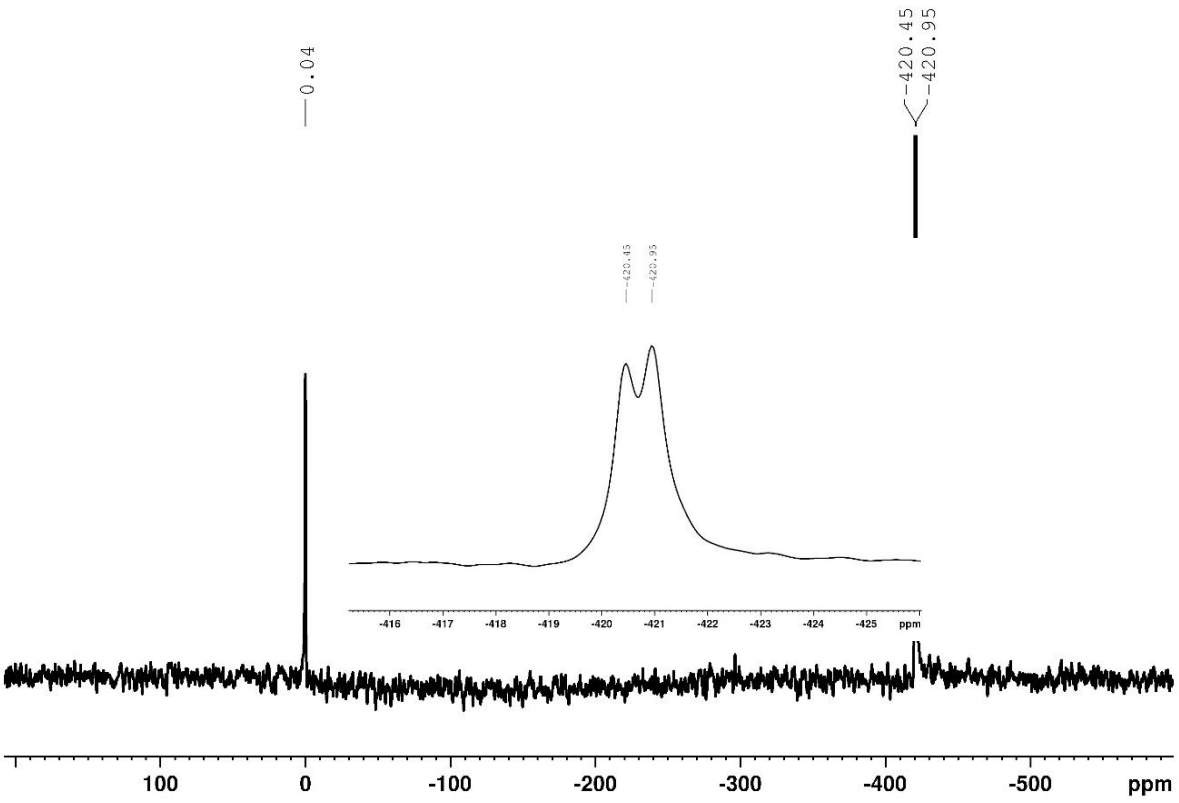

Figure S4. ^{77}Se-NMR (95 MHz, 25 °C, C_6D_6, gated) spectrum of *i*Pr$_3$Si-SeH (detail around 420 ppm as an inset).

2. NMR Spectra of PhMe$_2$Si-Se-SiMe$_2$Ph

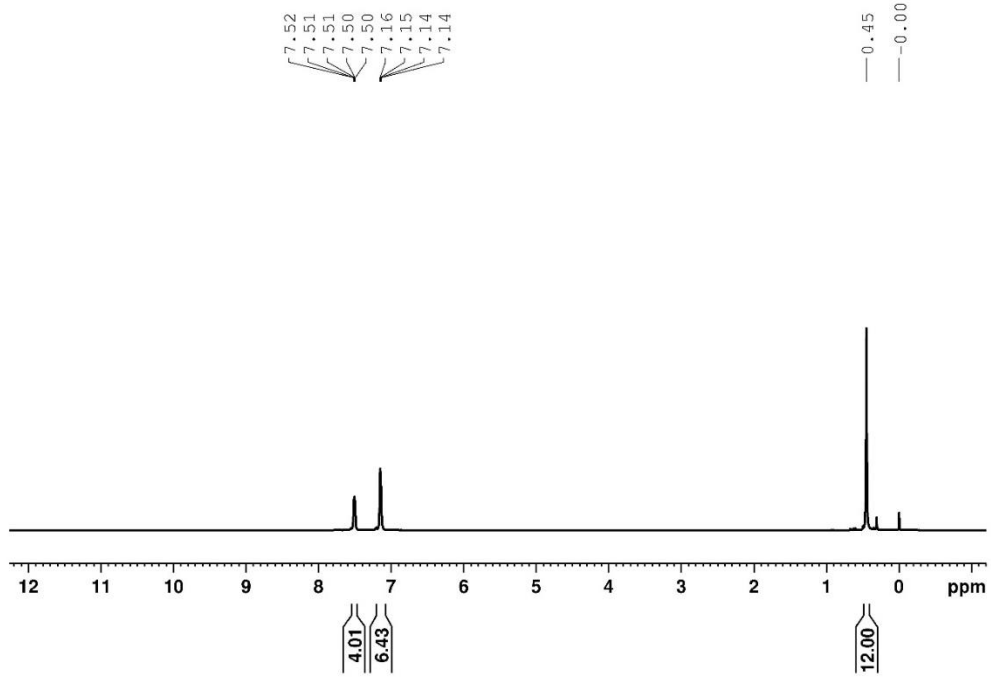

Figure S5. ^{1}H-NMR (400 MHz, 25 °C, C_6D_6) spectrum of PhMe$_2$Si-Se-SiMe$_2$Ph.

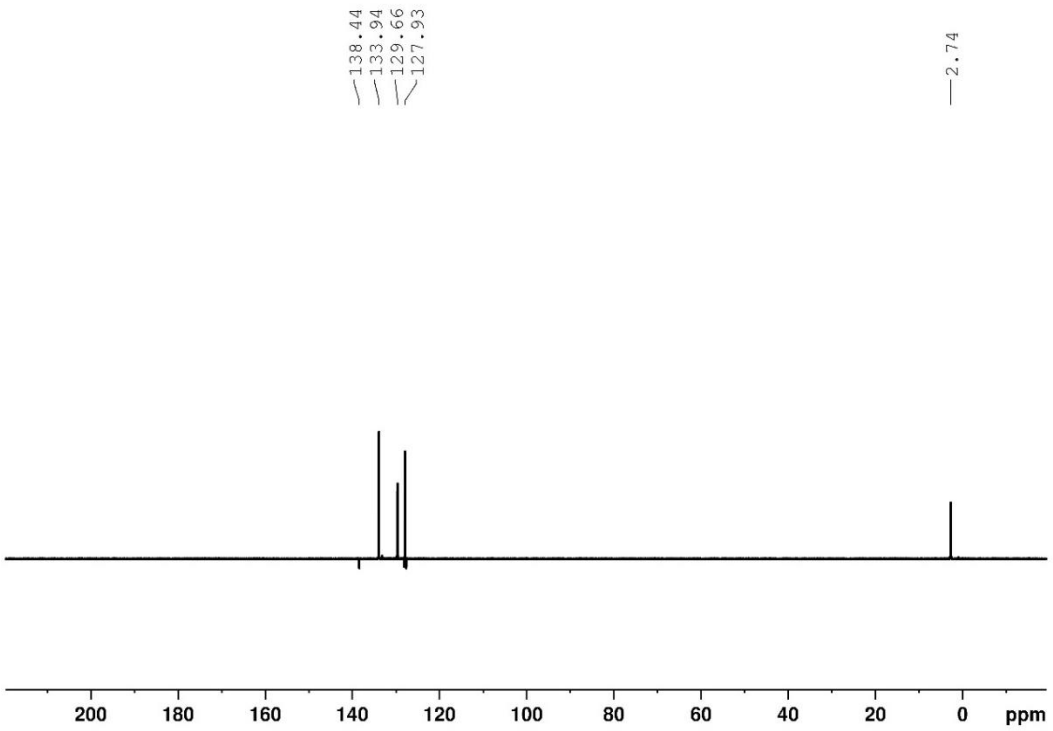

Figure S6. ^{13}C-NMR (125 MHz, 25 °C, C_6D_6) spectrum of $PhMe_2Si\text{-}Se\text{-}SiMe_2Ph$.

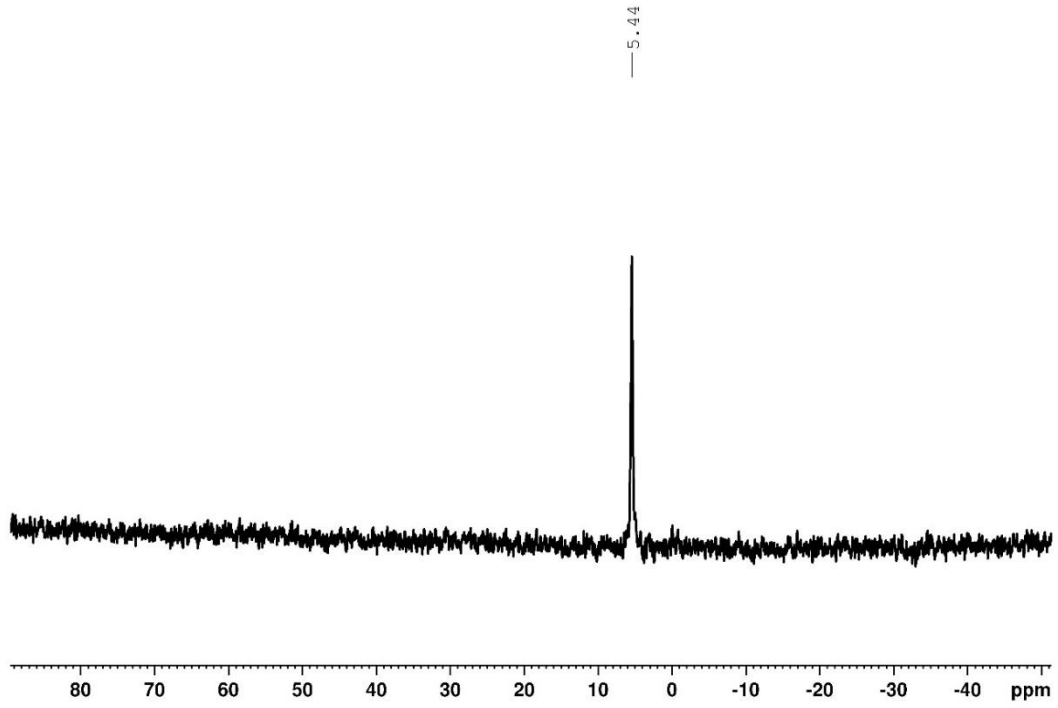

Figure S7. ^{29}Si-NMR (99 MHz, 25 °C, C_6D_6) spectrum of $PhMe_2Si\text{-}Se\text{-}SiMe_2Ph$.

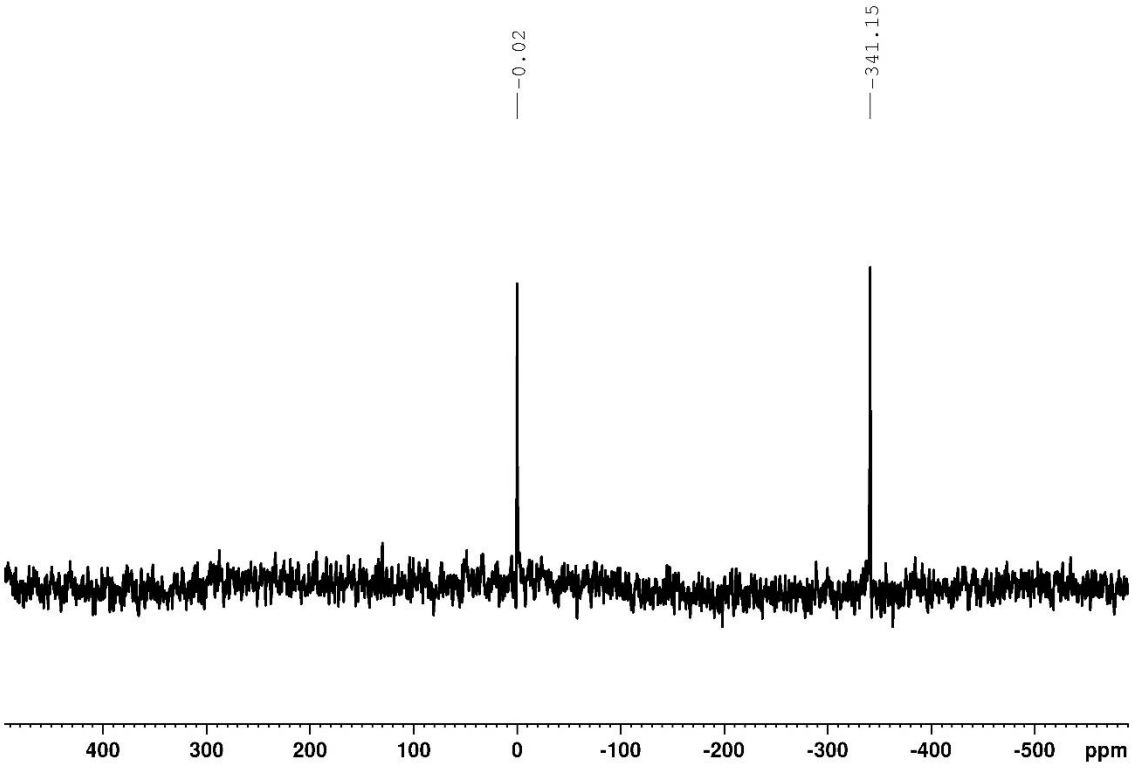

Figure S8. ^{77}Se-NMR (95 MHz, 25 °C, C_6D_6) spectrum of $PhMe_2Si\text{-}Se\text{-}SiMe_2Ph$.

3. NMR Spectra of *i*Pr$_3$Si-Se-SiMe$_3$

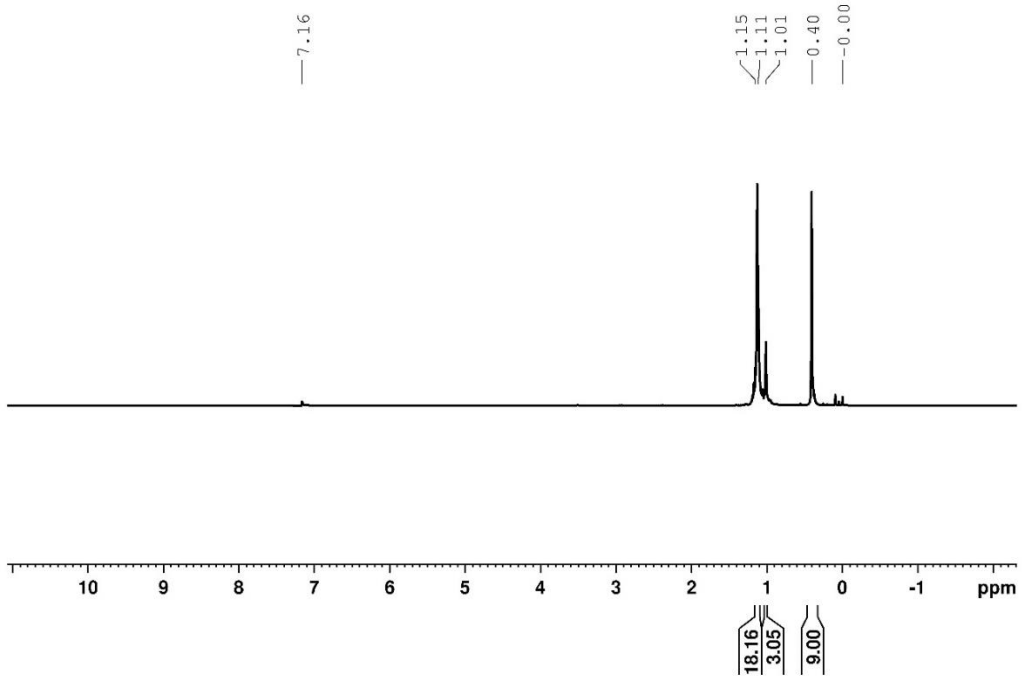

Figure S9. ^{1}H NMR (400 MHz, 25 °C, C_6D_6) spectrum of *i*$Pr_3Si\text{-}Se\text{-}SiMe_3$.

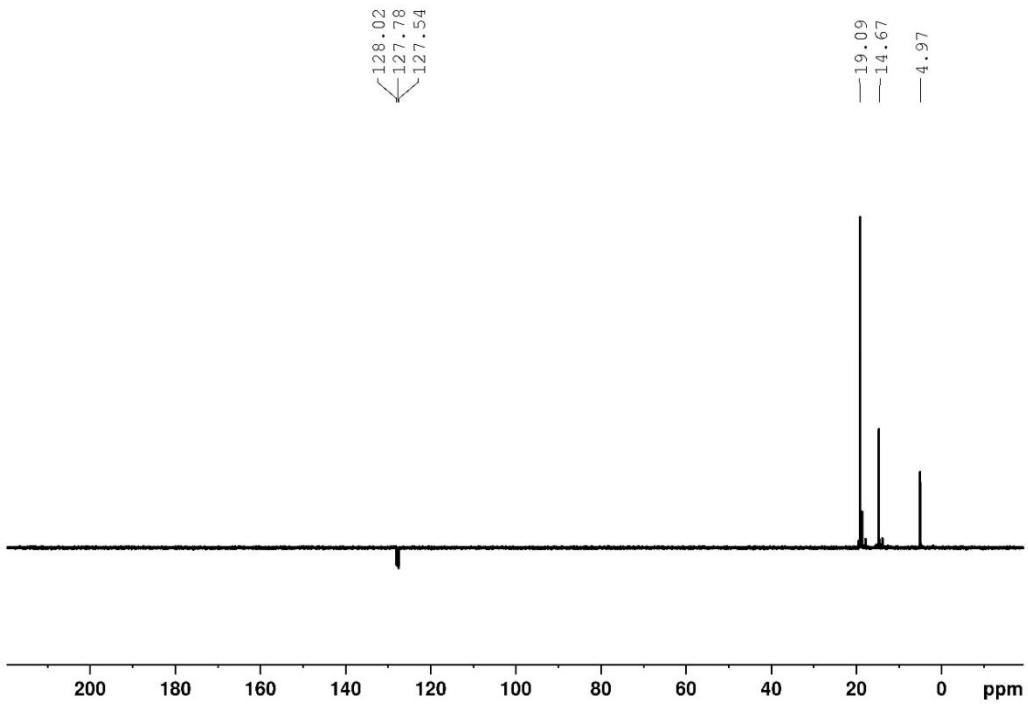

Figure S10. ^{13}C-NMR (125 MHz, 25 °C, C_6D_6) spectrum of *i*Pr$_3$Si-Se-SiMe$_3$.

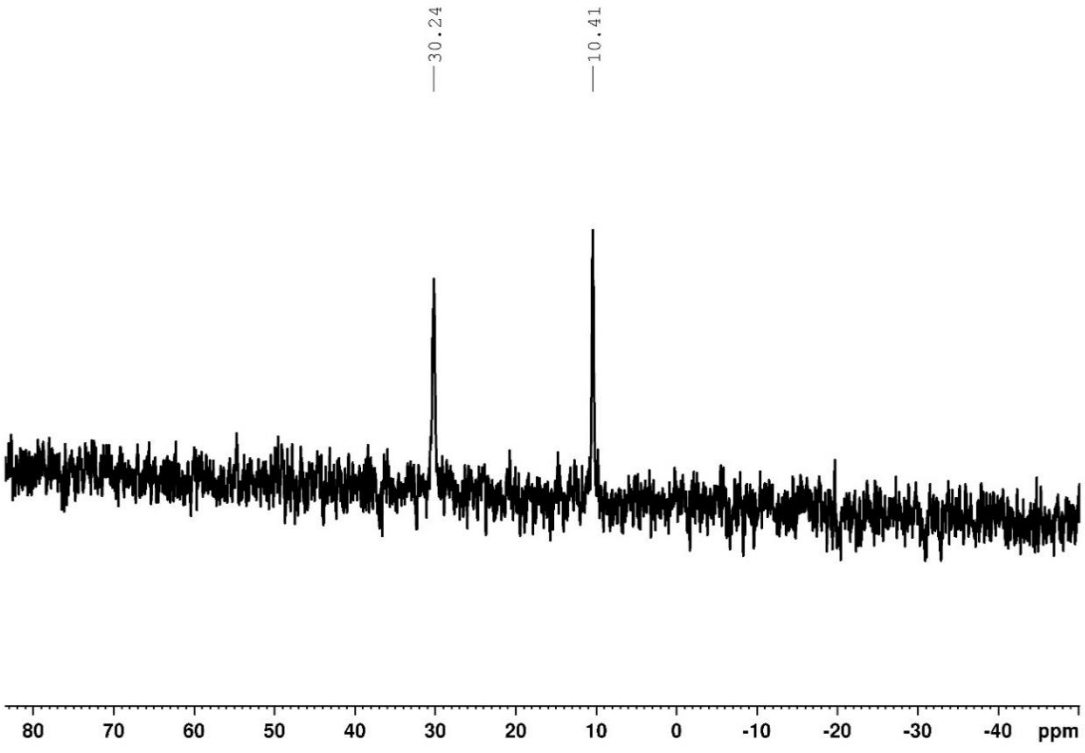

Figure S11. ^{29}Si-NMR (99 MHz, 25 °C, C_6D_6) spectrum of *i*Pr$_3$Si-Se-SiMe$_3$.

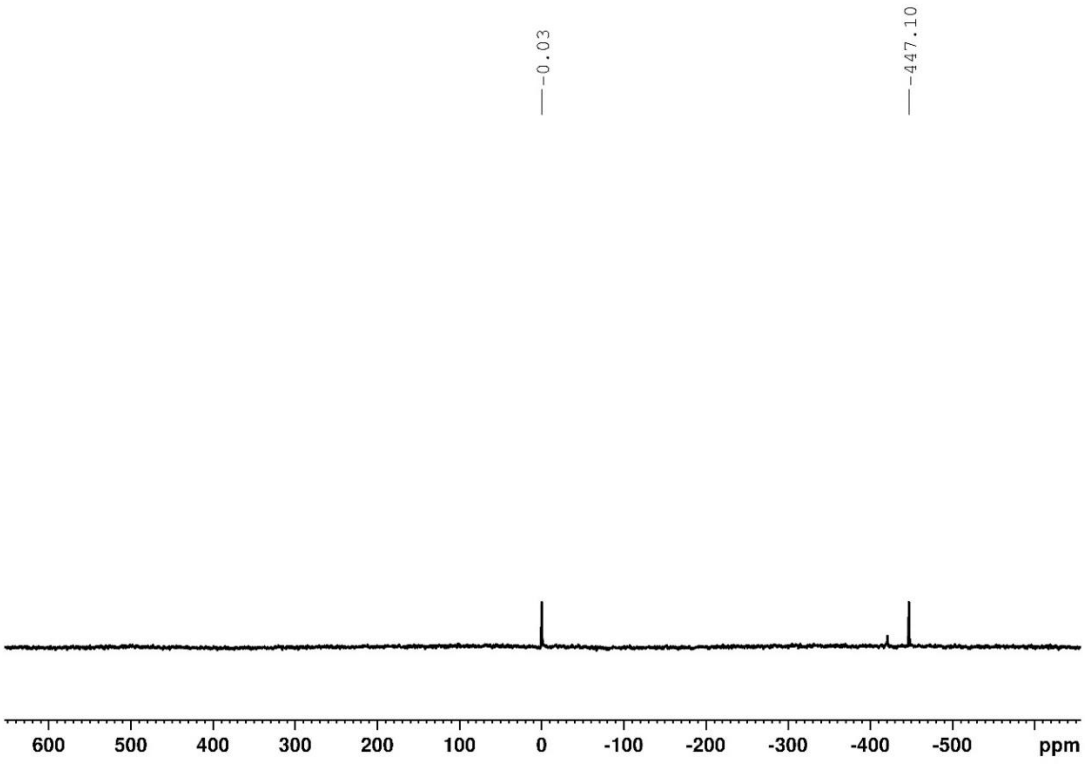

Figure S12. ^{77}Se-NMR (95 MHz, 25 °C, C_6D_6) spectrum of *i*Pr$_3$Si-Se-SiMe$_3$.

4. GC/MS Records

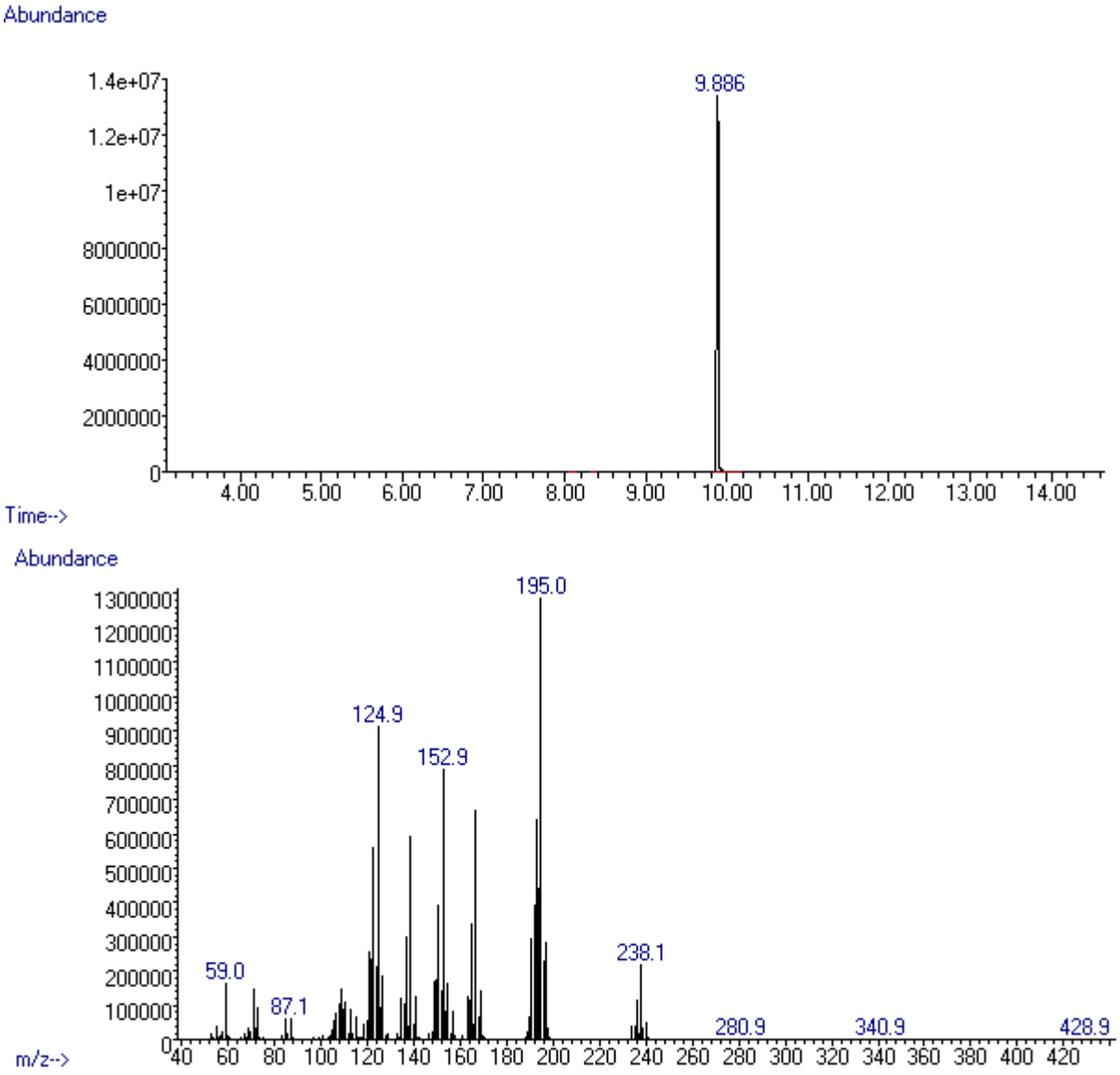

Figure S13. GC/MS record of *i*Pr$_3$Si-SeH.

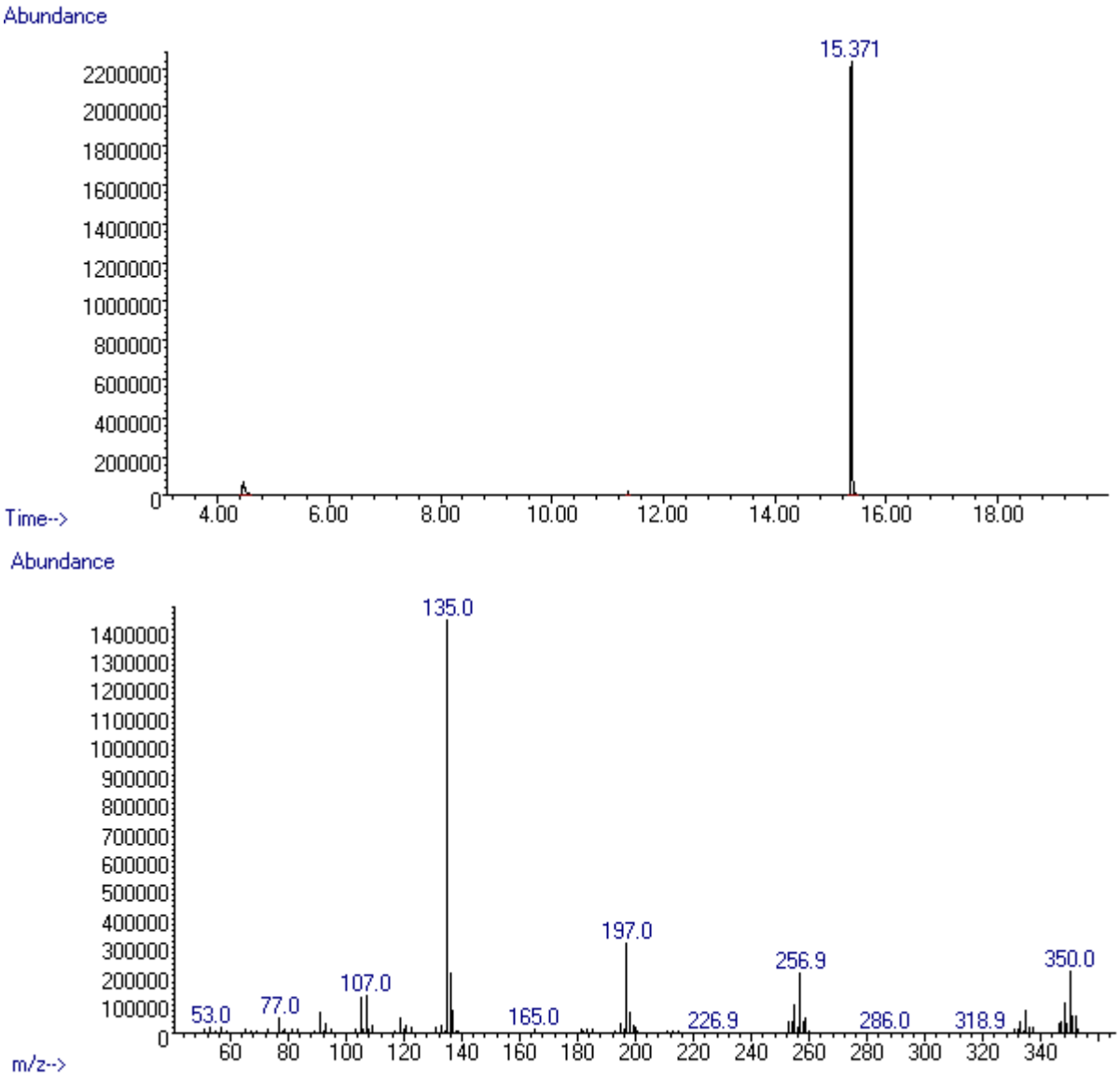

Figure S14. GC/MS record of $PhMe_2Si\text{-}Se\text{-}SiMe_2Ph$.

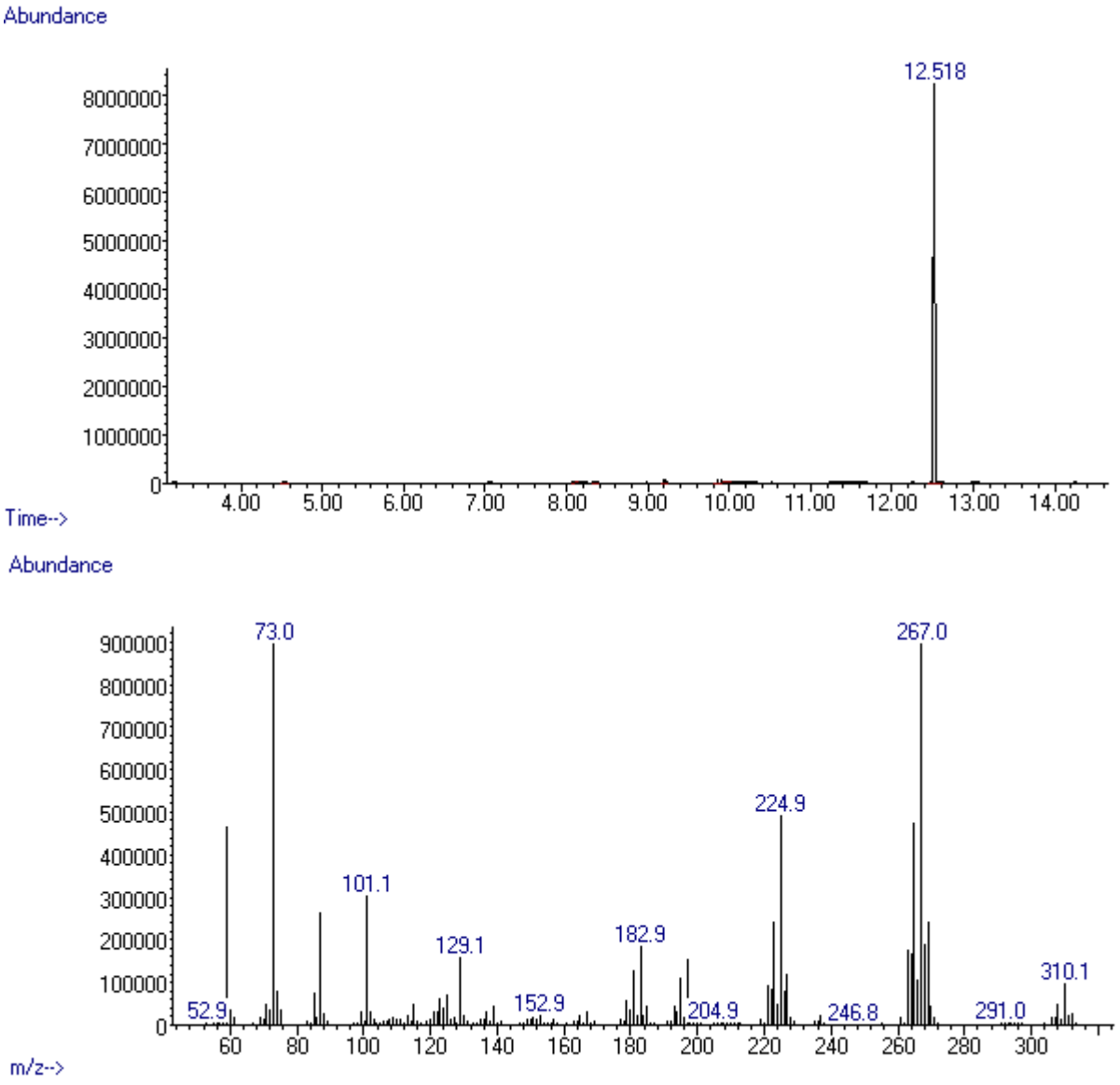

Figure S15. GC/MS record of *i*Pr$_3$Si-Se-SiMe$_3$.

5. DSC Thermograms

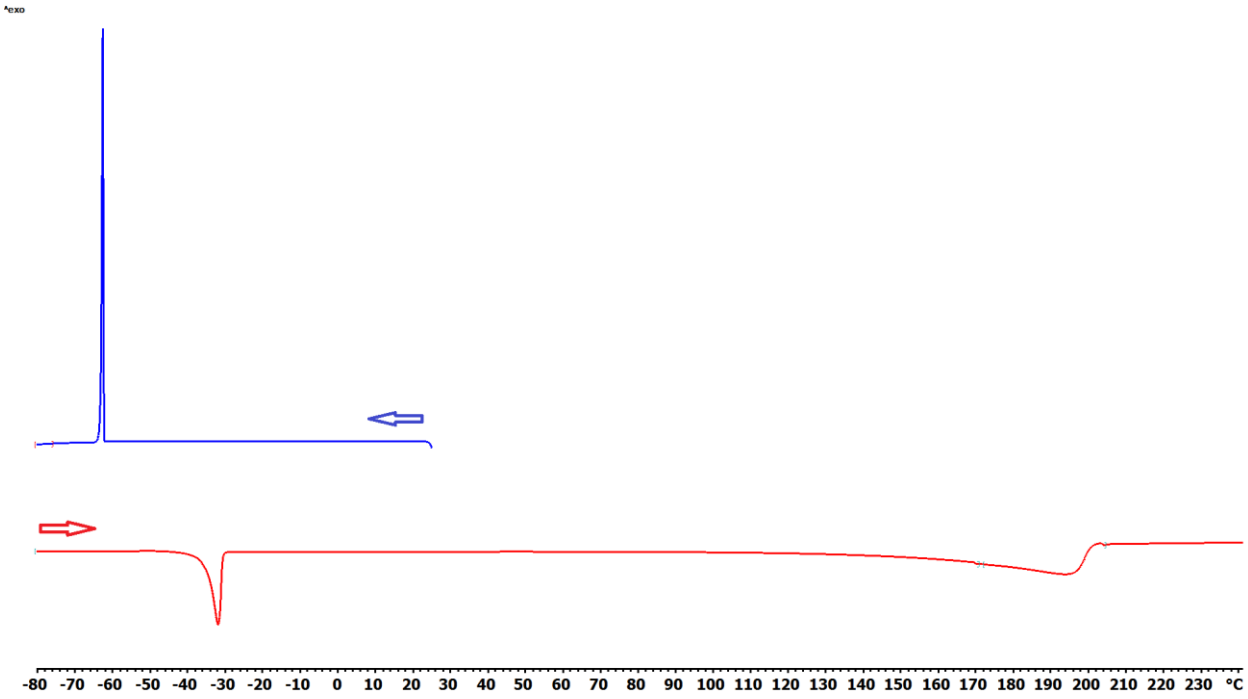

Figure S16. DSC curve of *i*Pr$_3$Si-SeH.

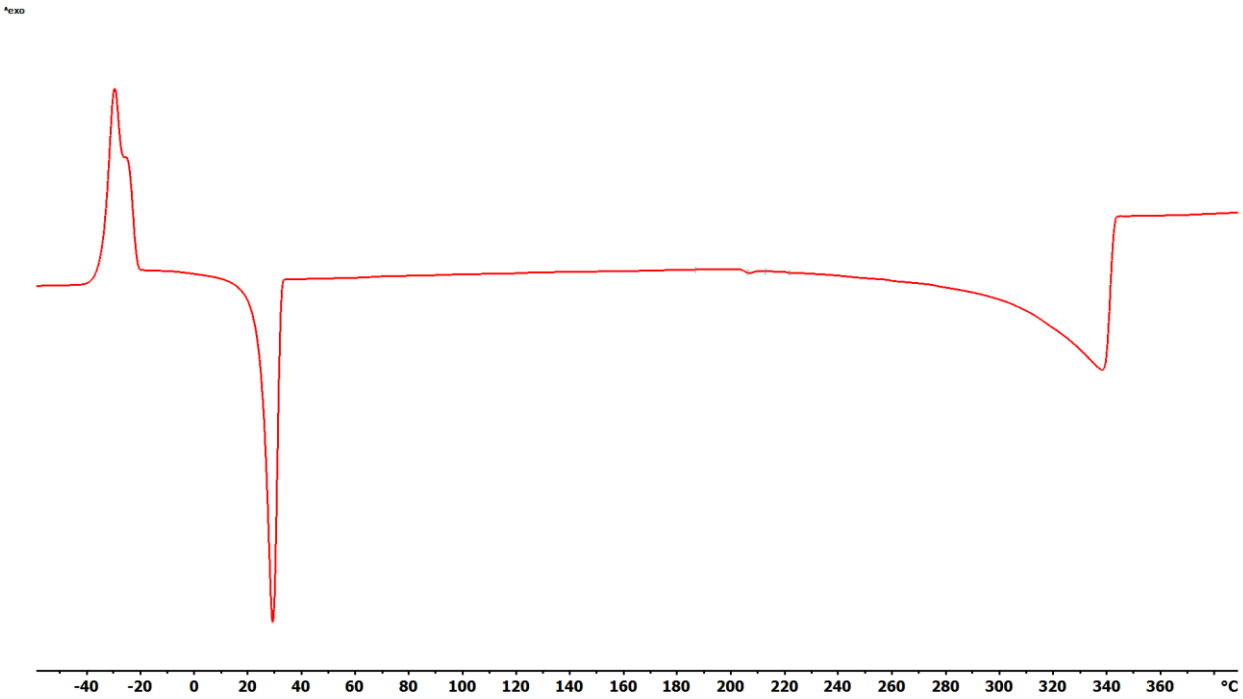

Figure S17. DSC curve of PhMe$_2$Si-Se-SiMe$_2$Ph.

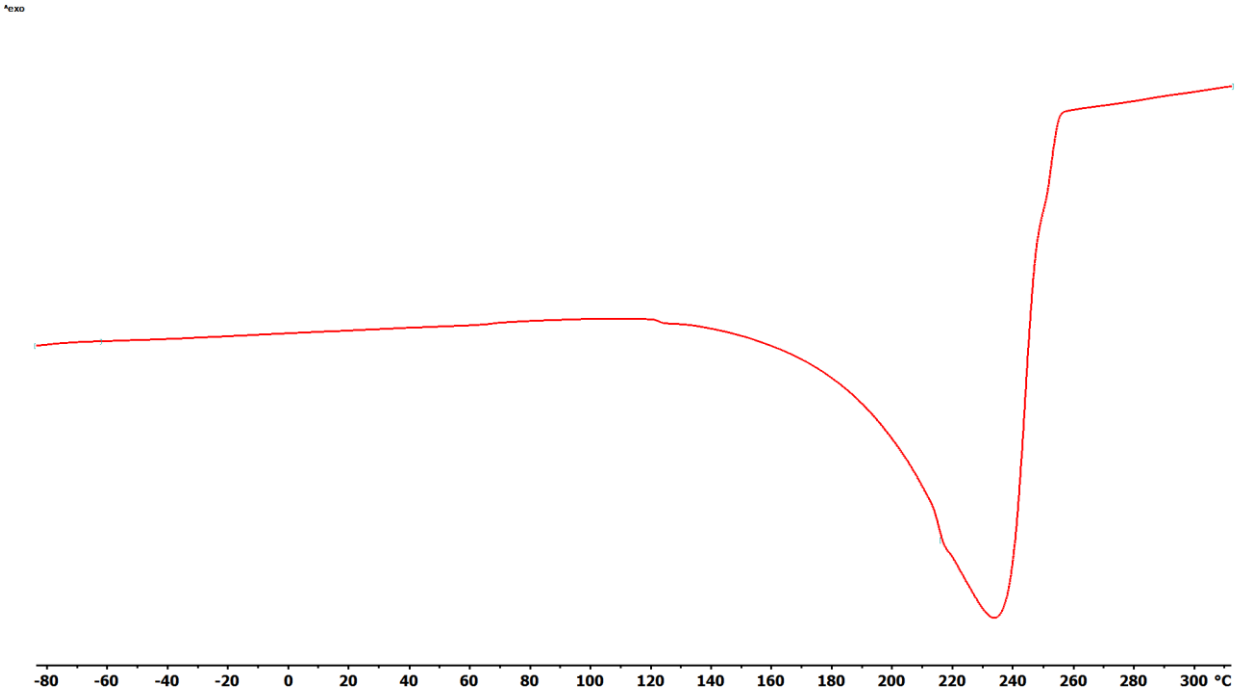

Figure S18. DSC curve of *i*Pr$_3$Si-Se-SiMe$_3$.

6. TGA

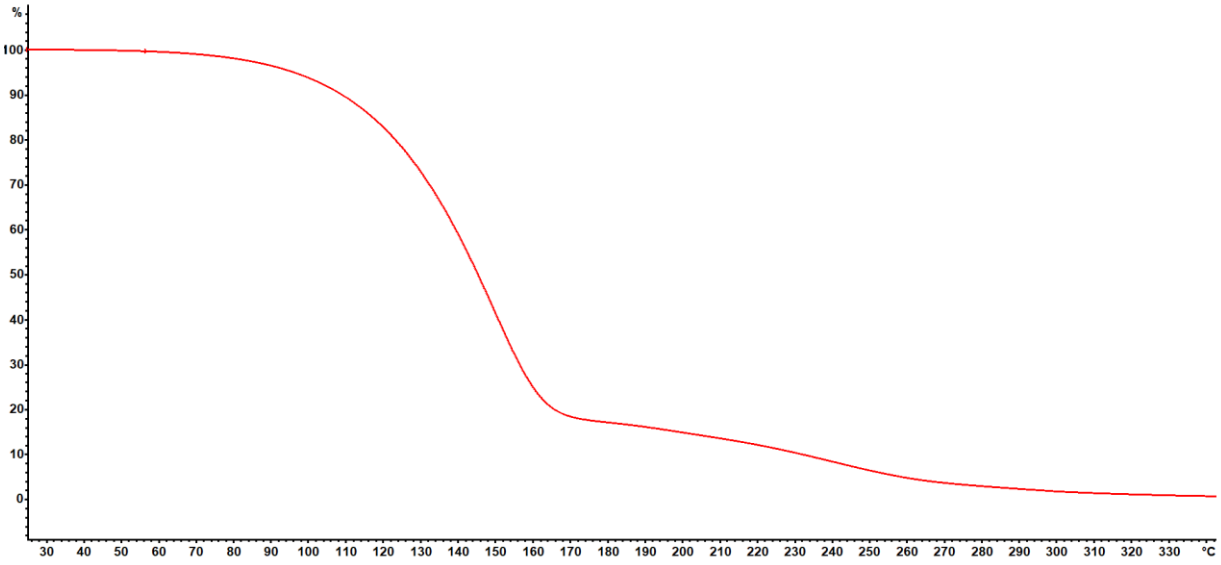

Figure S19. TGA curve of *i*Pr$_3$Si-SeH.

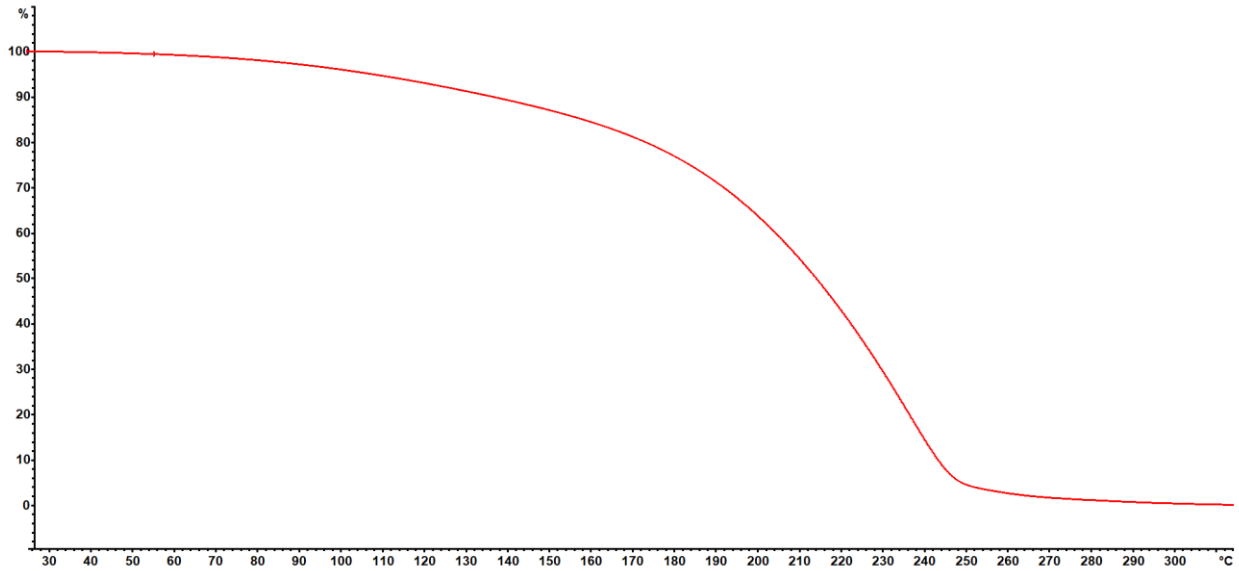

Figure S20. TGA curve of $PhMe_2Si\text{-}Se\text{-}SiMe_2Ph$.

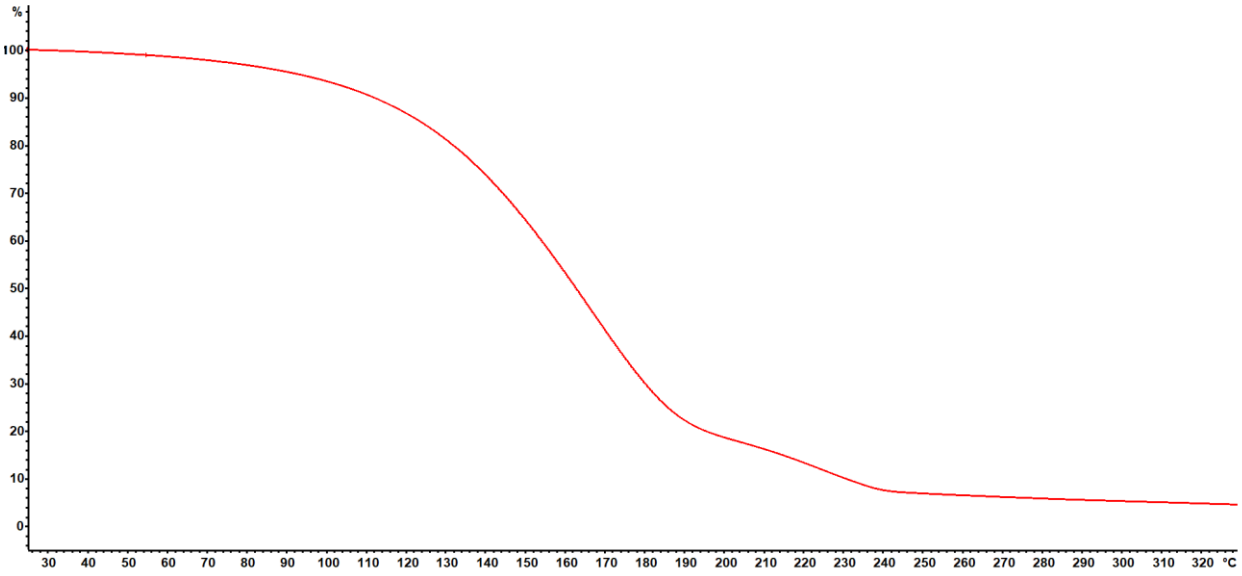

Figure S21. TGA curve of $i Pr_3Si\text{-}Se\text{-}SiMe_3$.

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