

Supplementary Material

Salicylic Acid as Ionic Liquid Formulation May Have Enhanced Potency to Treat Some Chronic Skin Diseases

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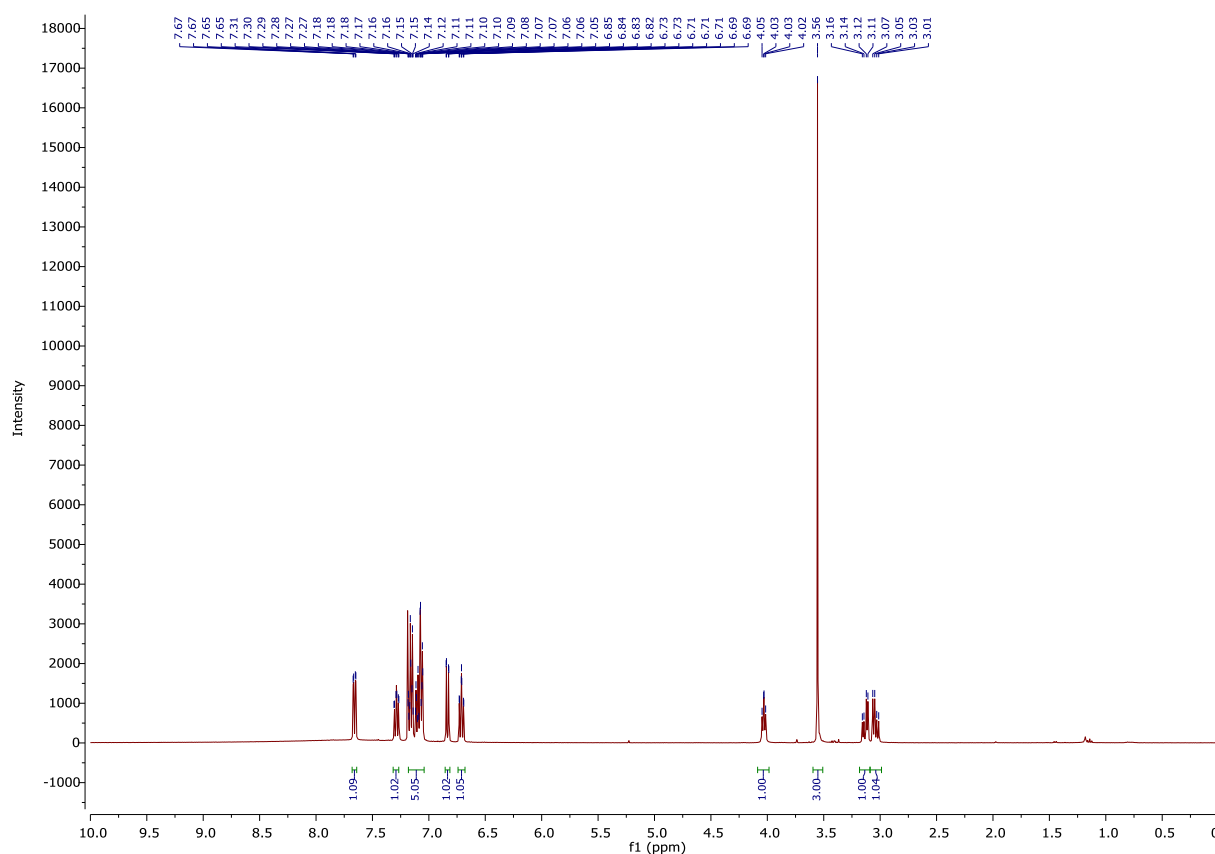
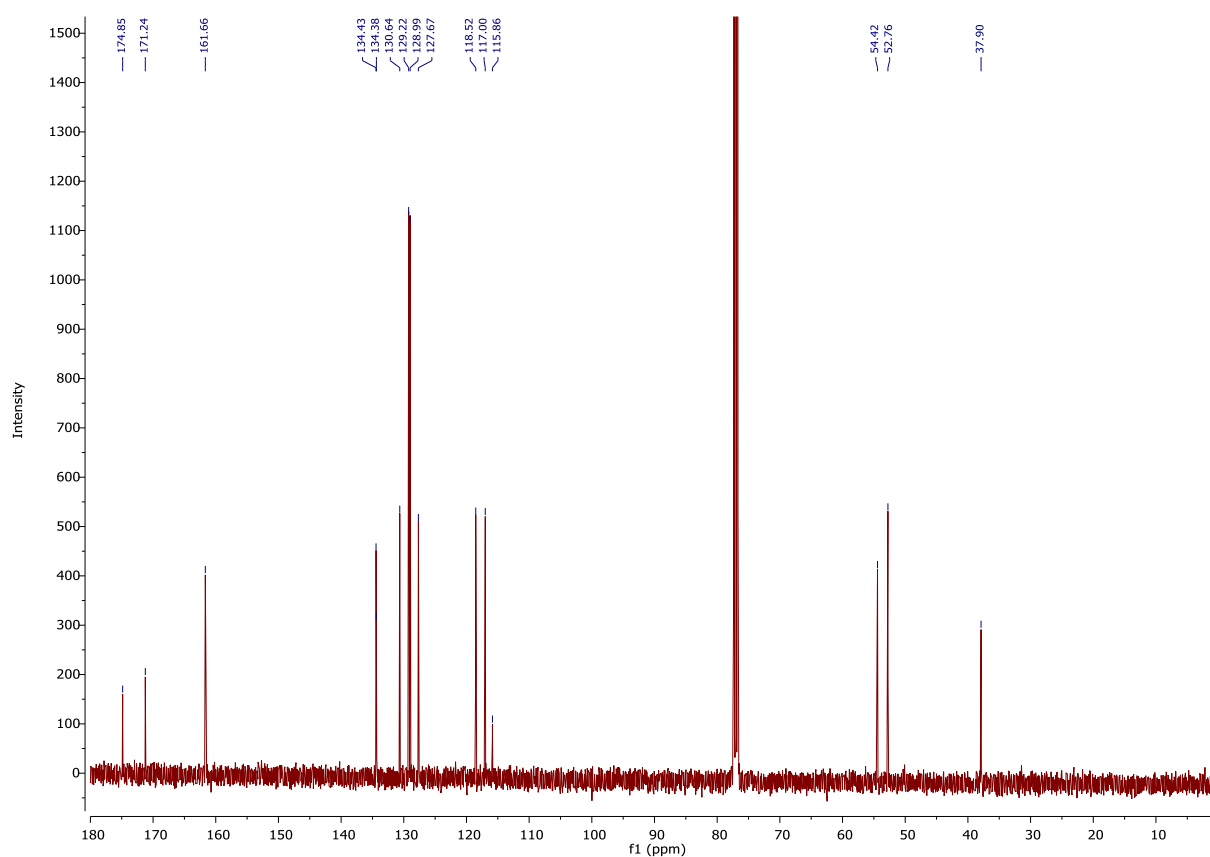
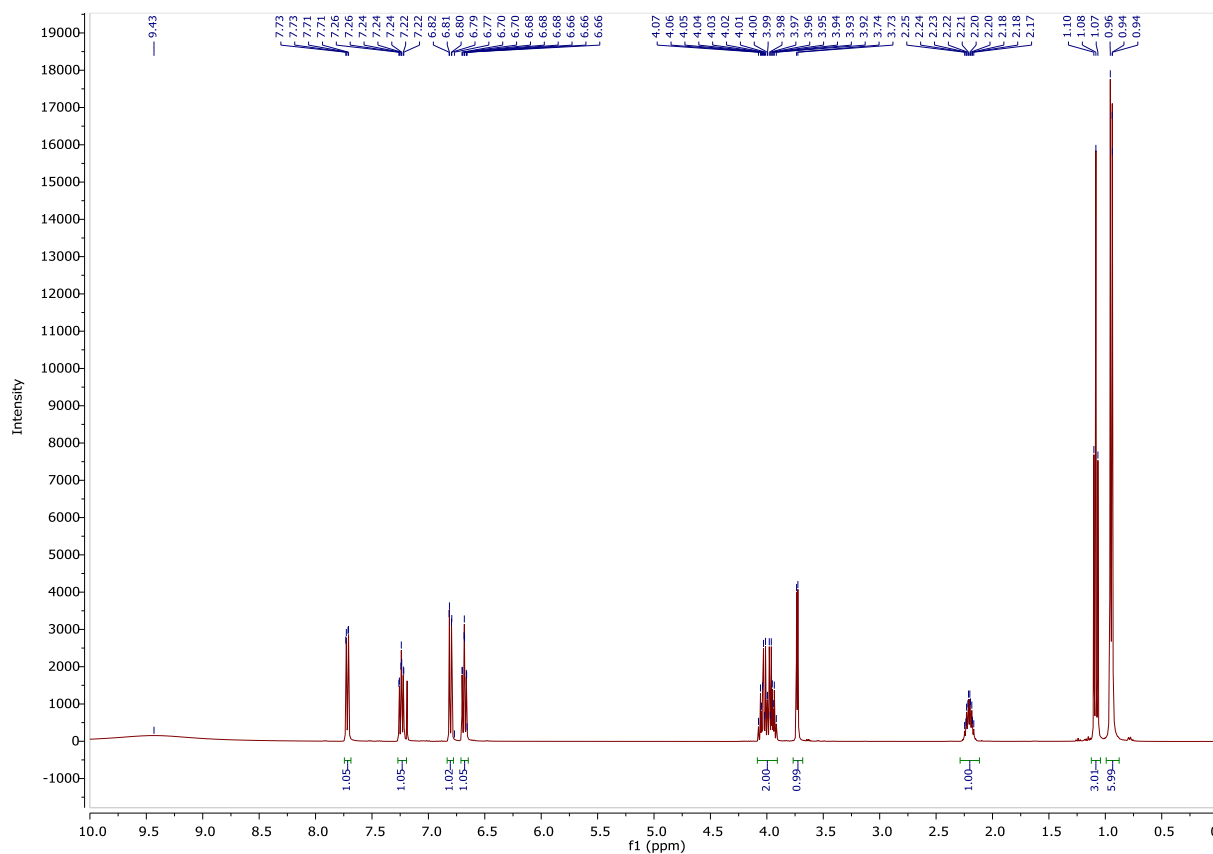
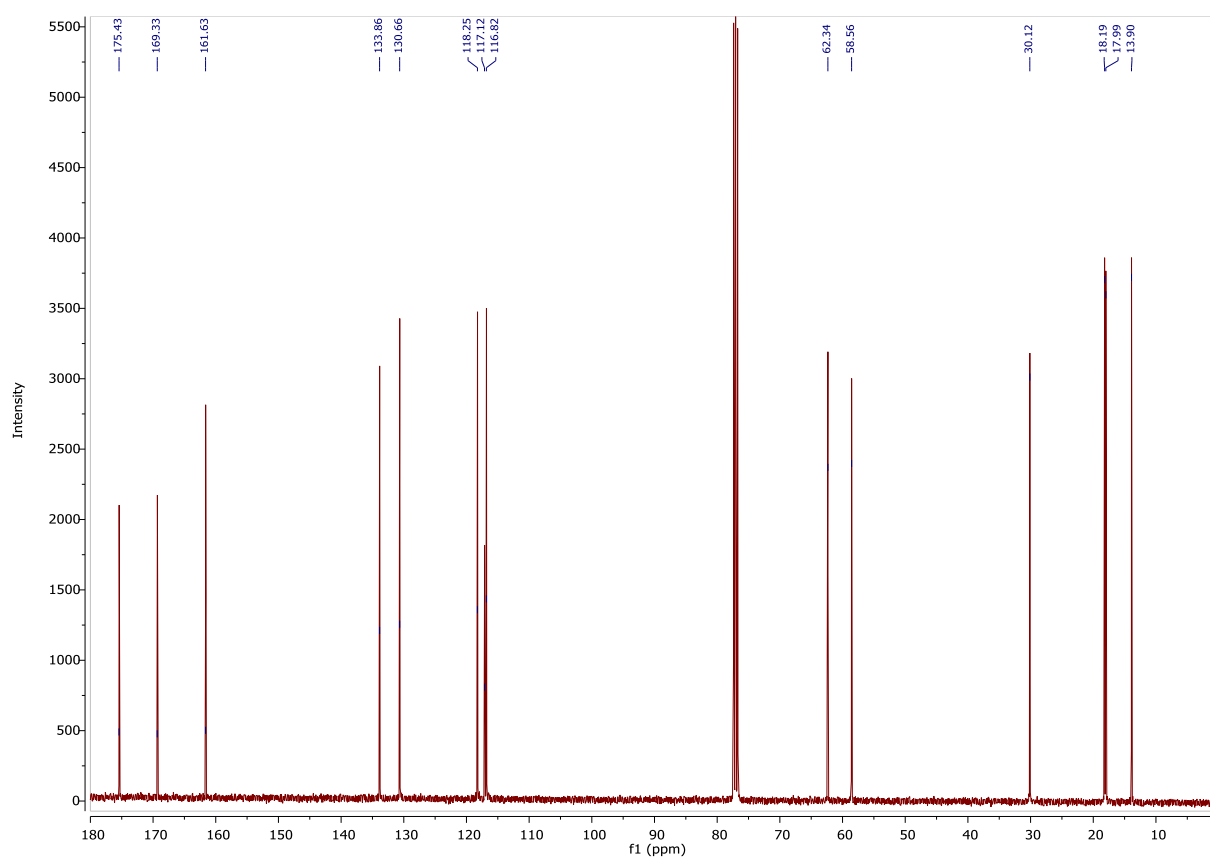
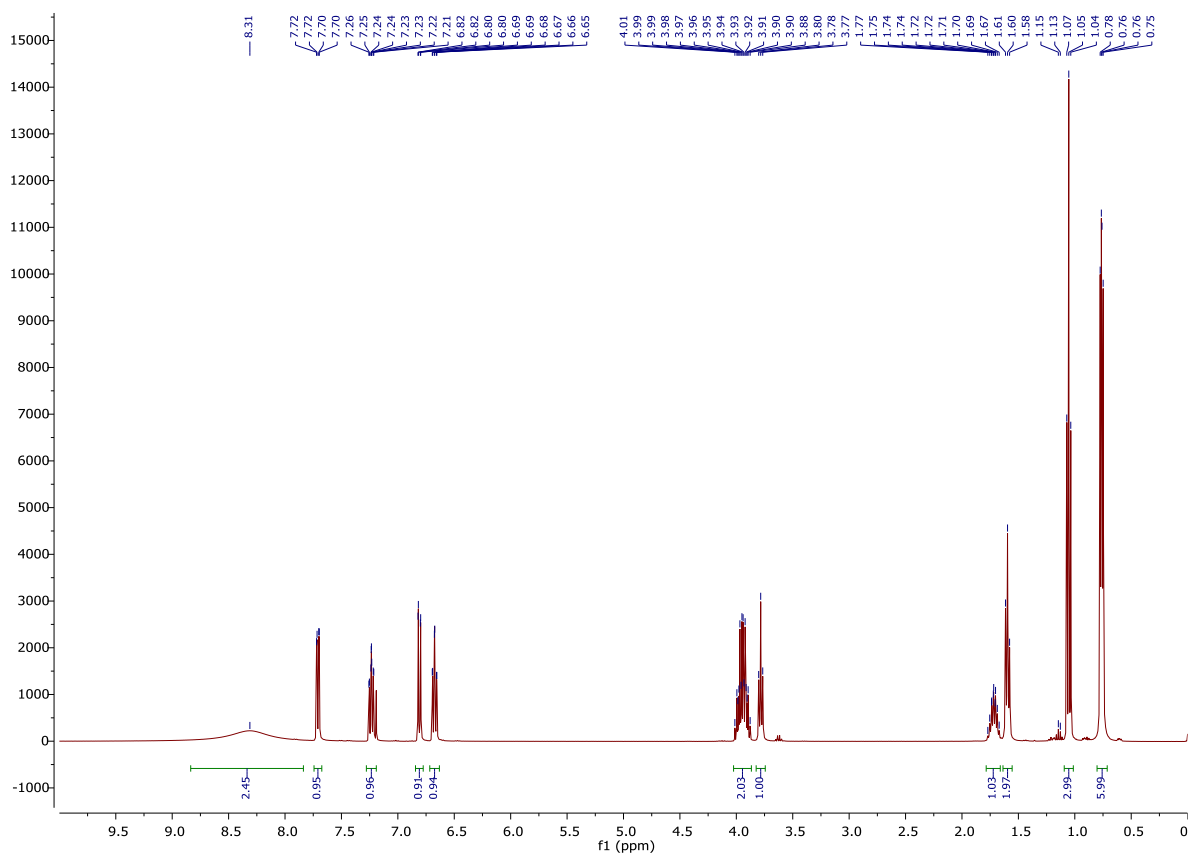
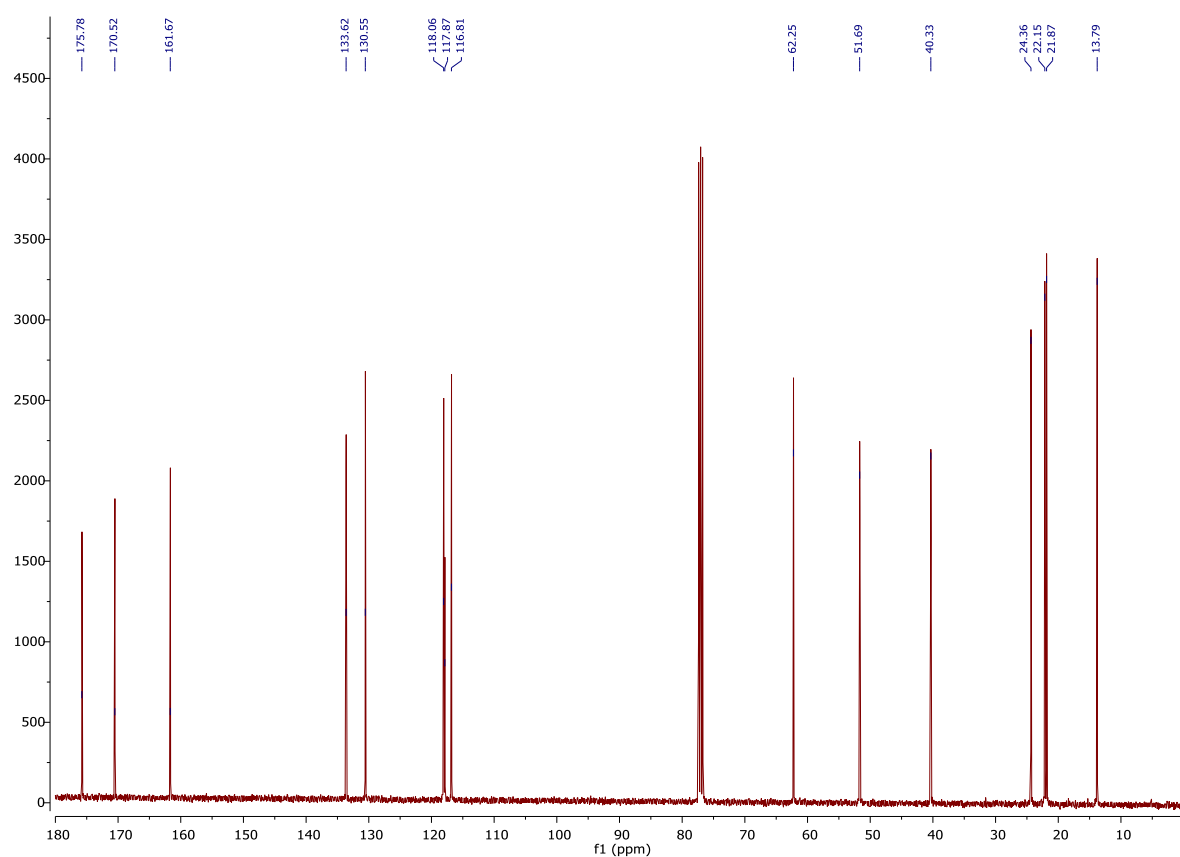
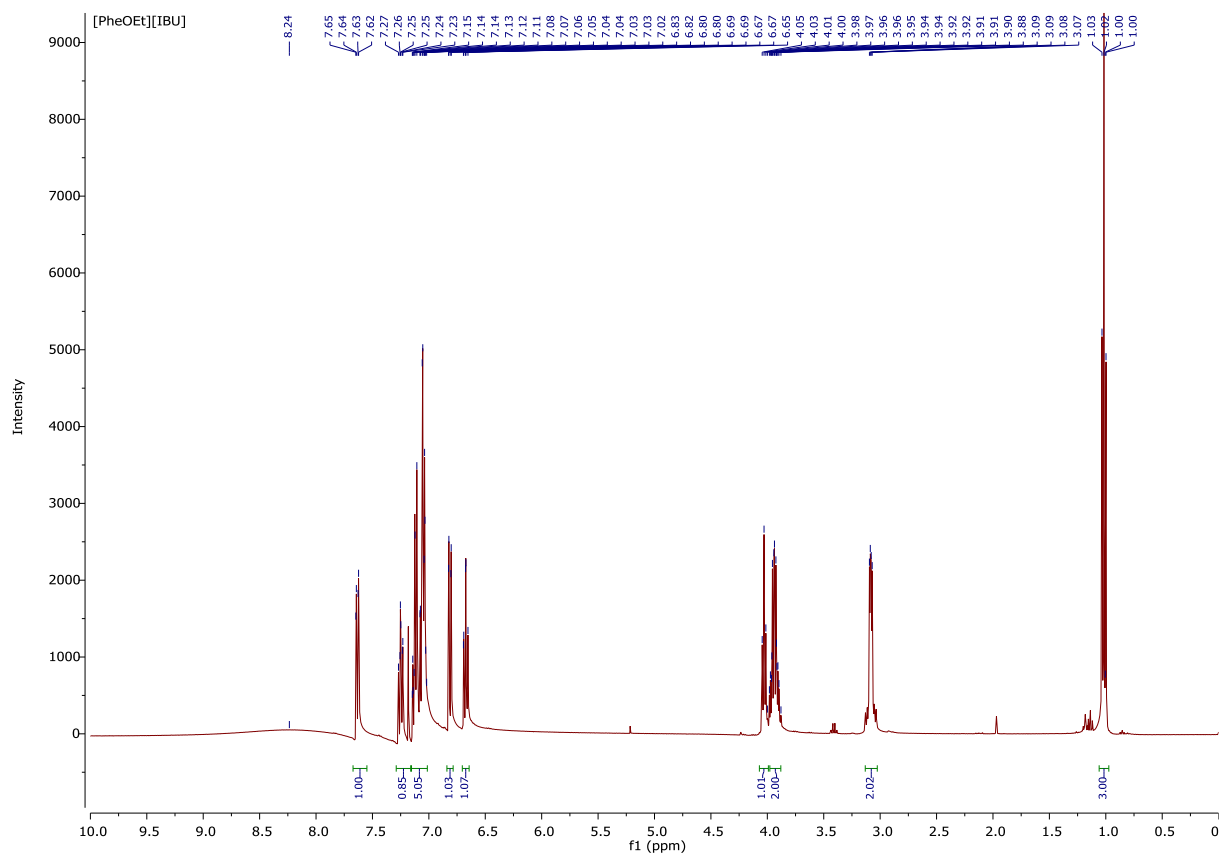
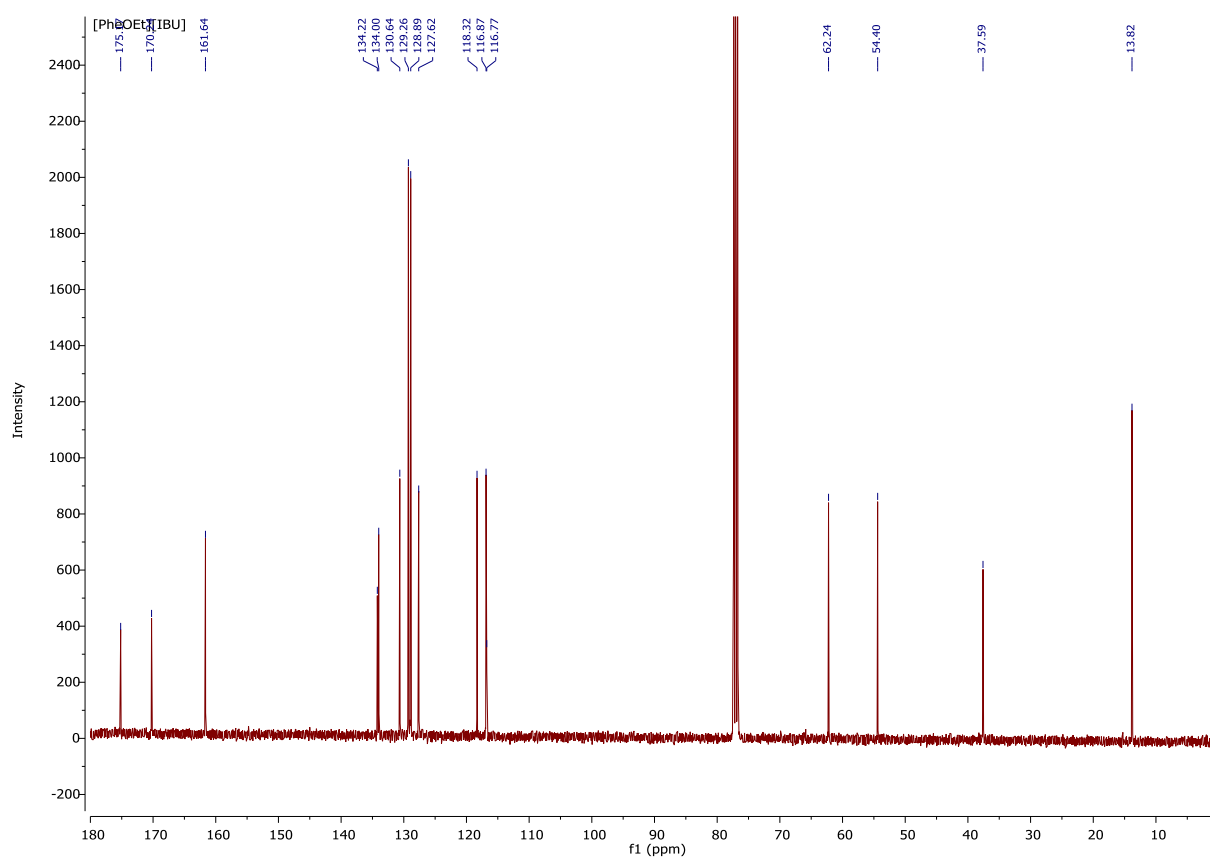
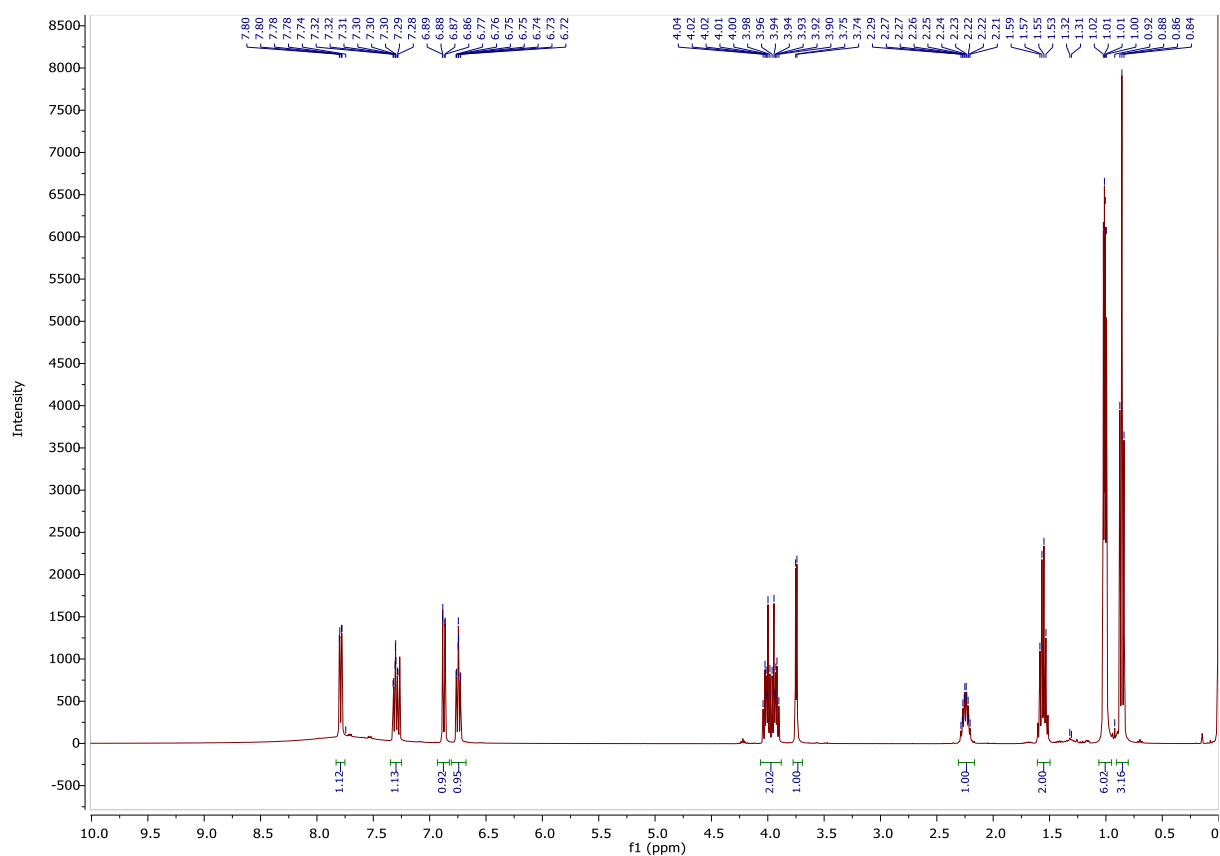


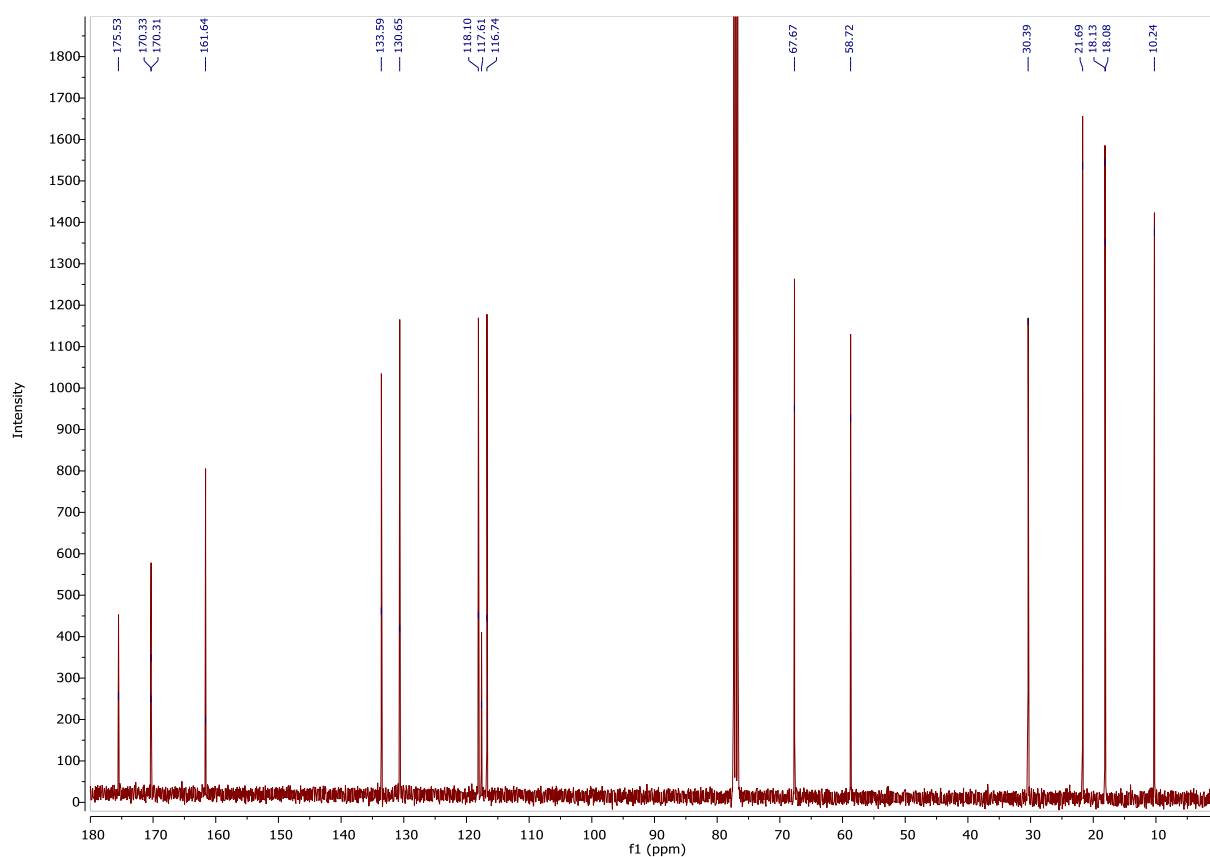
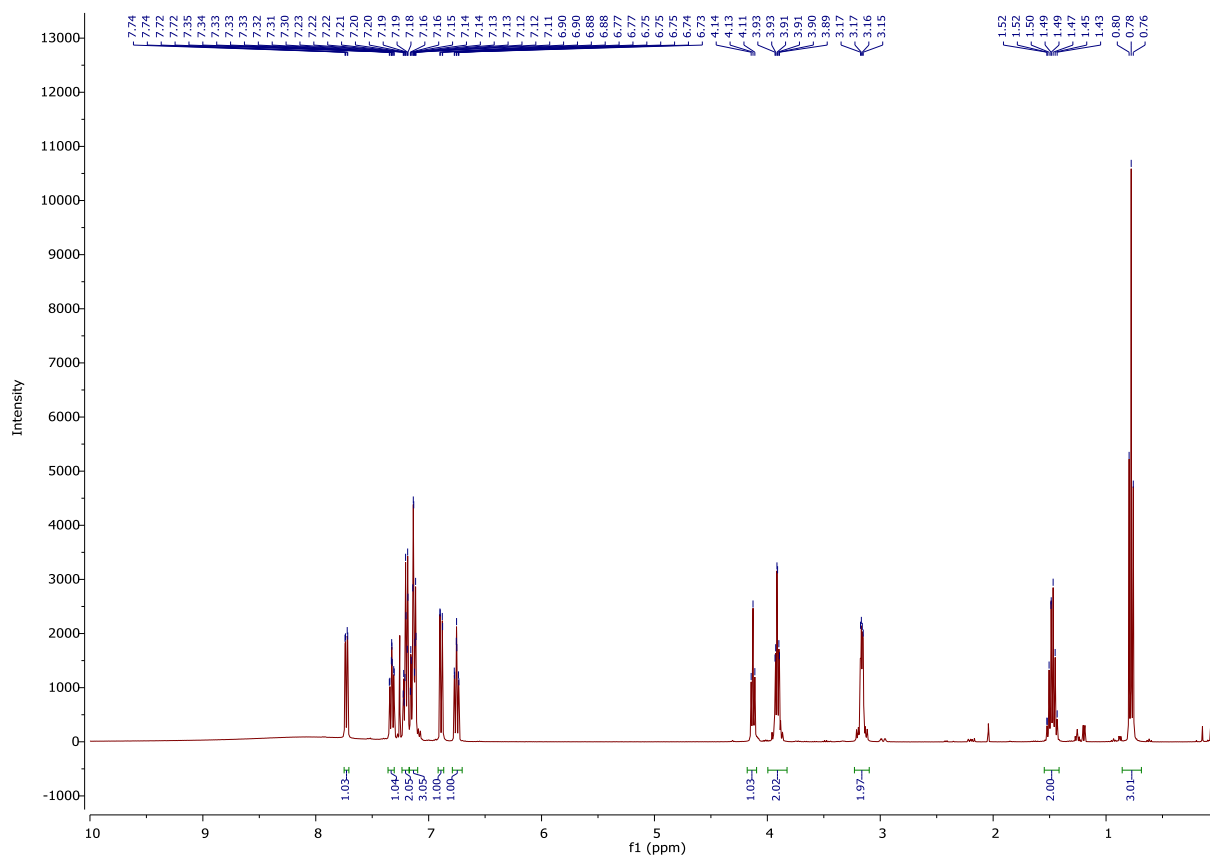
Figure S1. ¹H NMR spectra of [PheOMe][SA].

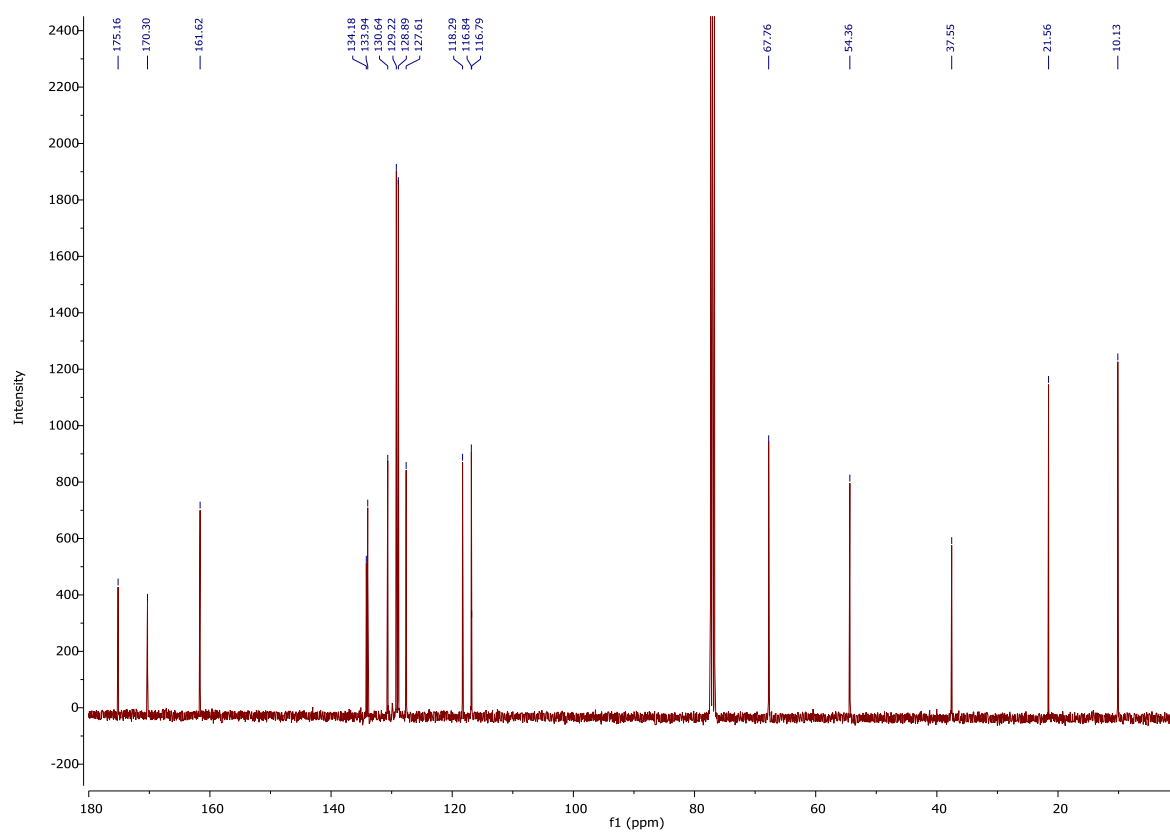
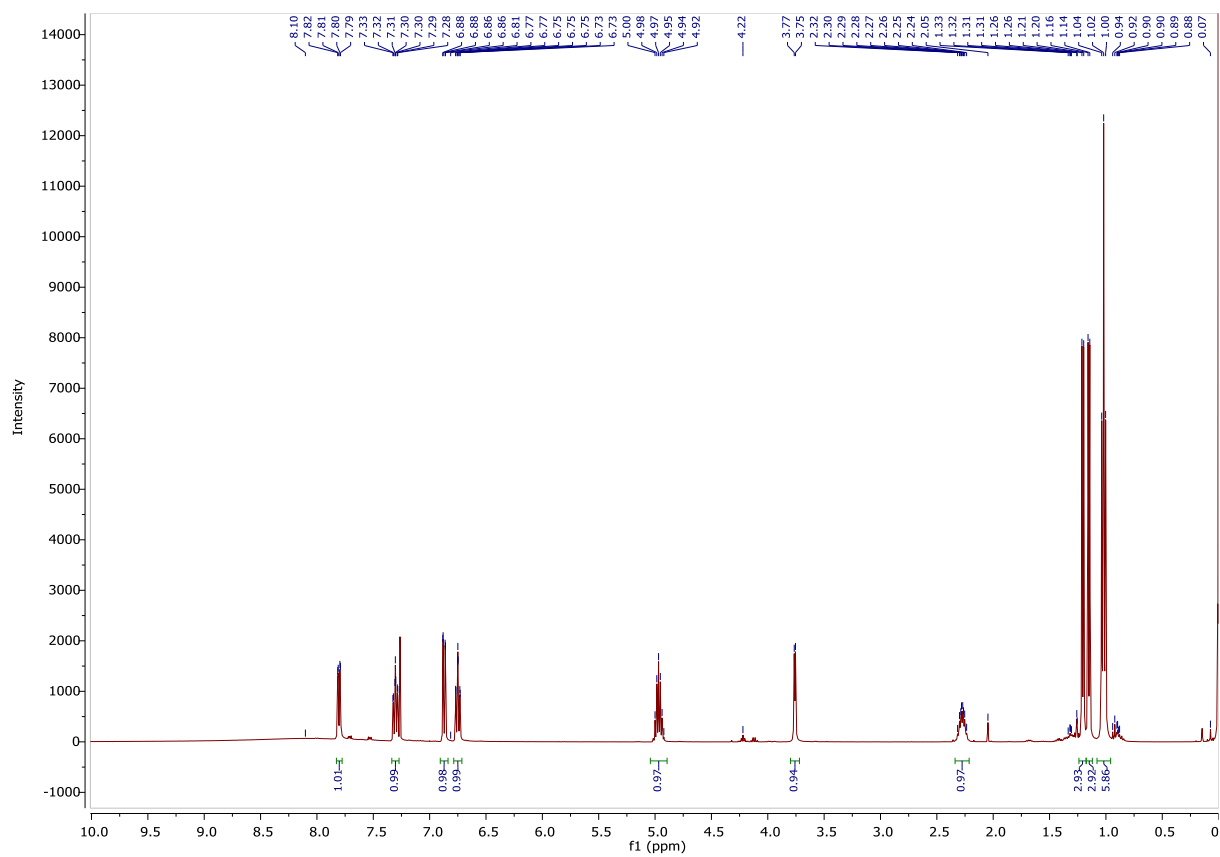
Figure S2. ^{13}C NMR spectra of [PheOMe][SA].Figure S3. ^1H NMR spectra of [ValOEt][SA].

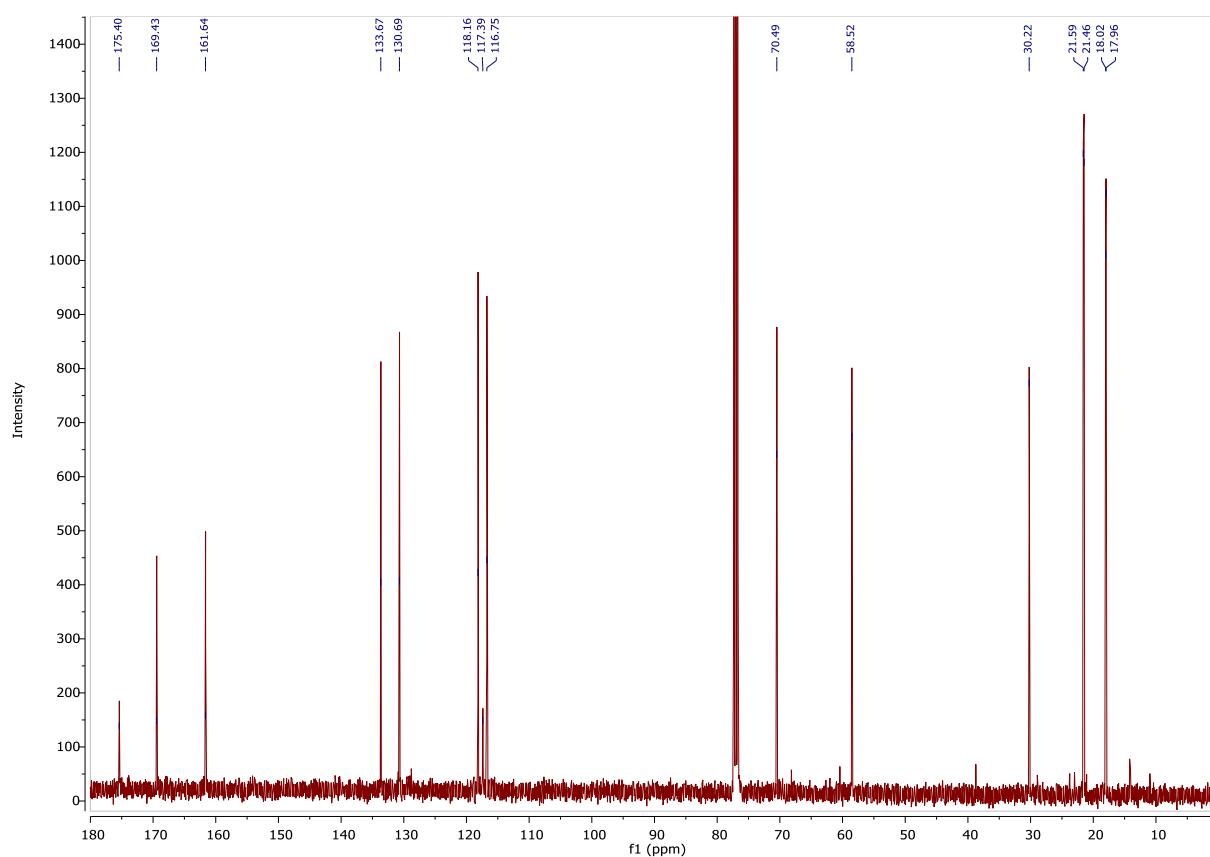
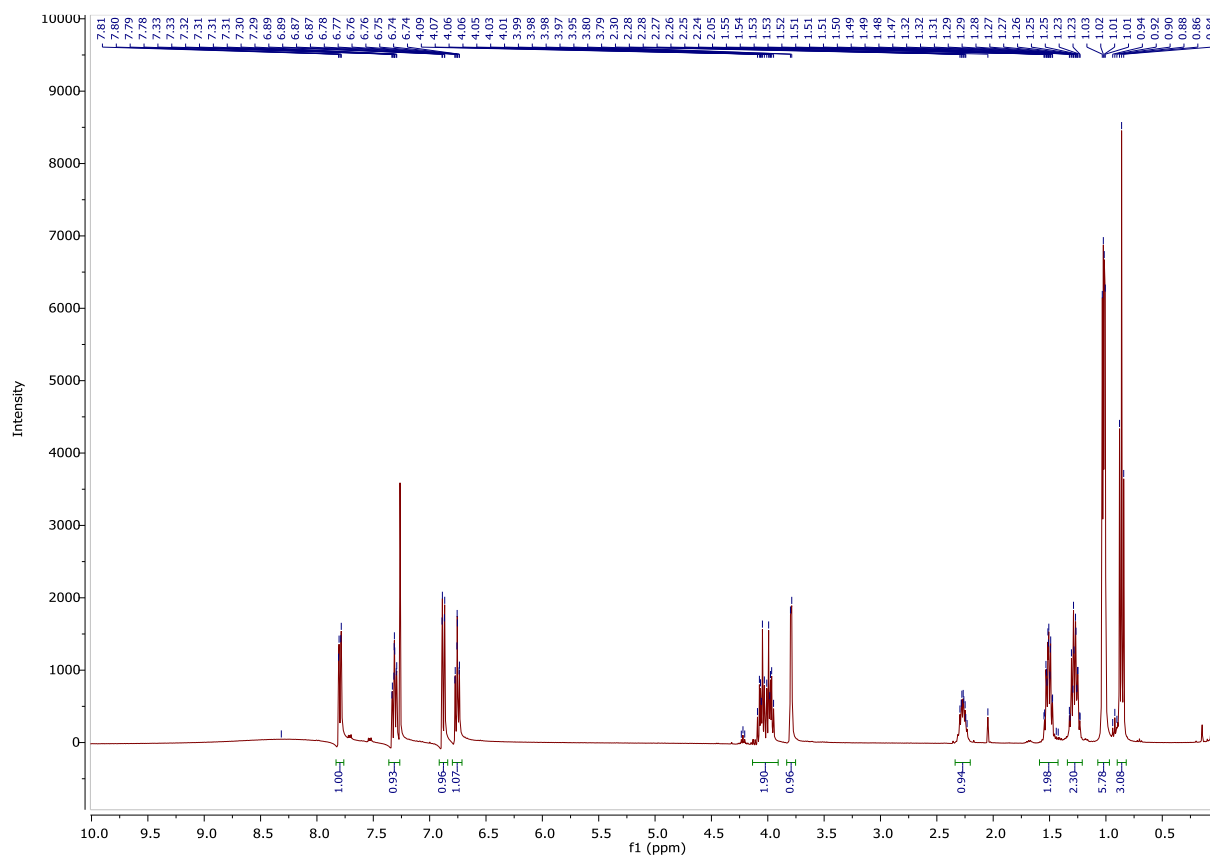
Figure S4. ^{13}C NMR spectra of [ValOEt][SA].Figure S5. ^1H NMR spectra of [LeuOEt][SA].

Figure S6. ¹³C NMR spectra of [LeuOEt][SA].Figure S7. ¹H NMR spectra of [PheOEt][SA].

Figure S8. ¹³C NMR spectra of [PheOEt][SA].Figure S9. ¹H NMR spectra of [ValOPr][SA].

Figure S10. ¹³C NMR spectra of [ValOPr][SA].Figure S11. ¹H NMR spectra of [PheOPr][SA].

Figure S12. ¹³C NMR spectra of [PheOPr][SA].Figure S13. ¹H NMR spectra of [ValOiPr][SA].

Figure S14. ^{13}C NMR spectra of [ValOiPr][SA].Figure S15. ^1H NMR spectra of [ValOBu][SA].

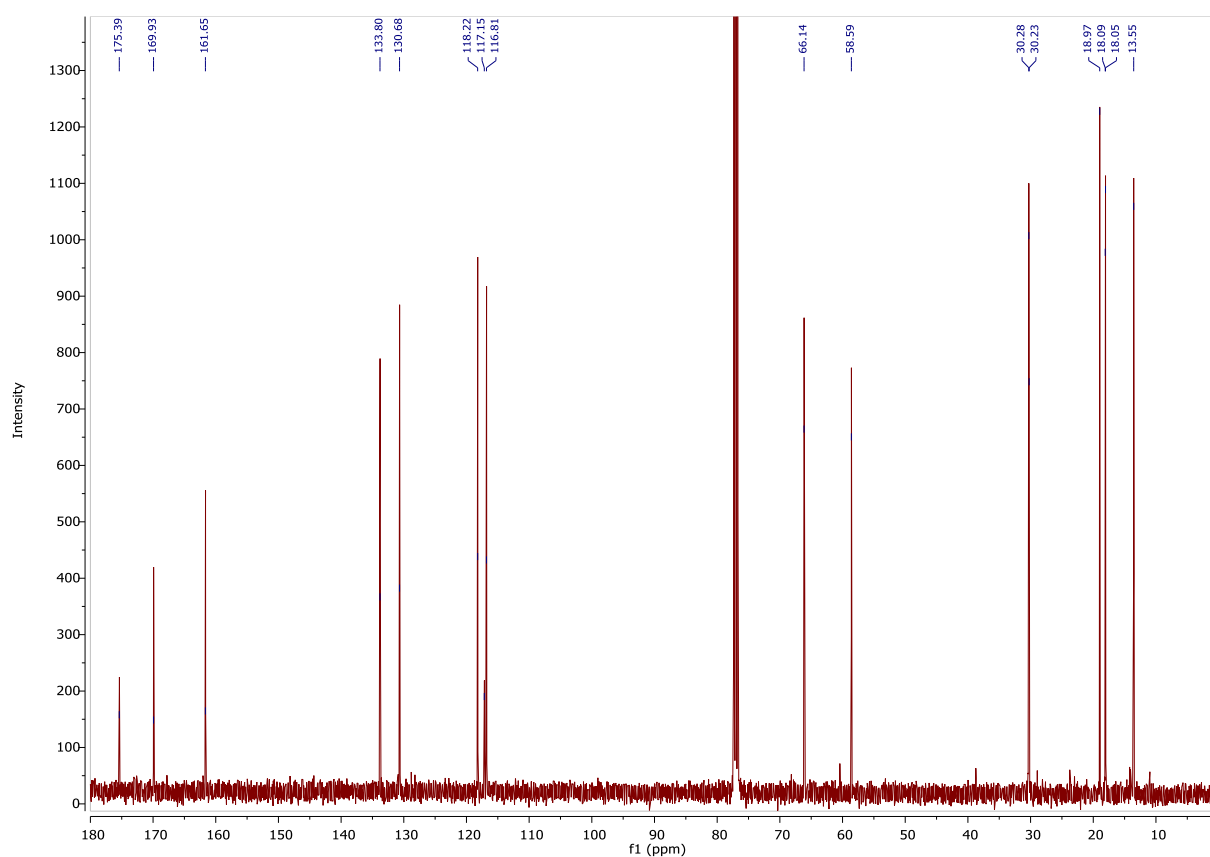
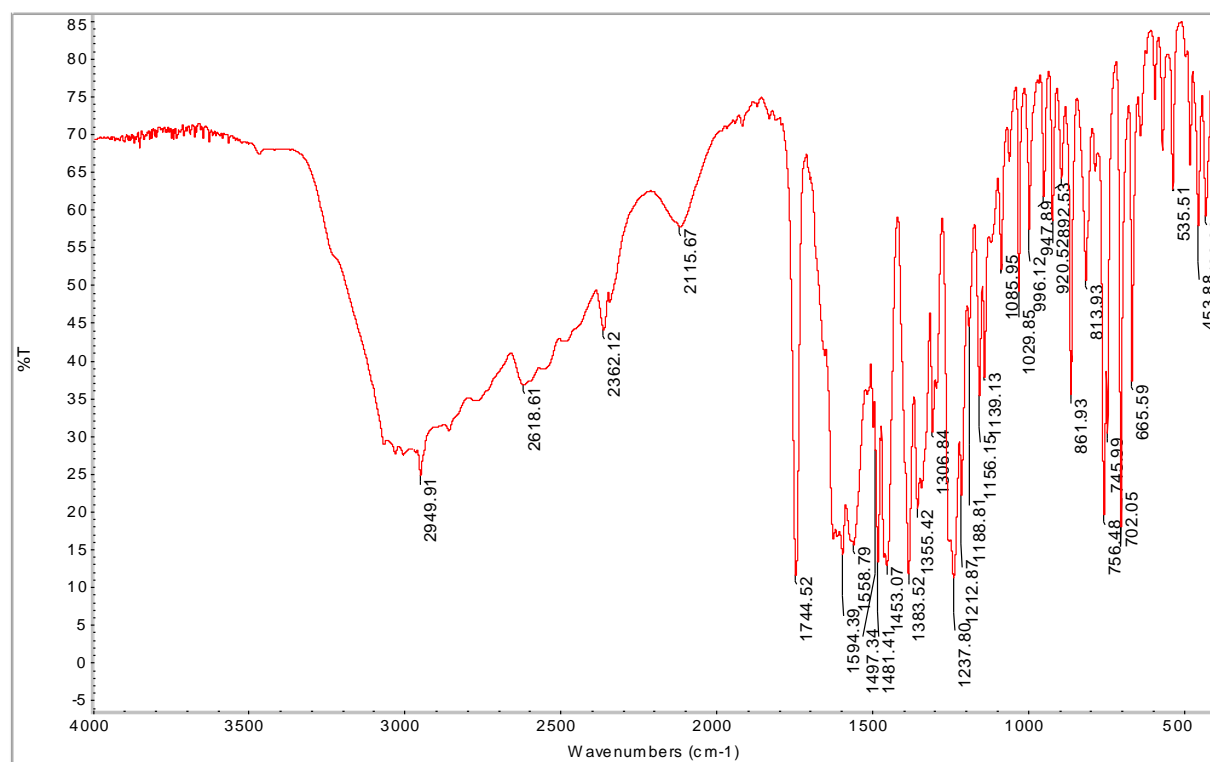
Figure S16. ^{13}C NMR spectra of [ValOBu][SA].

Figure S17. FT-IR spectra of [PheOMe][SA].

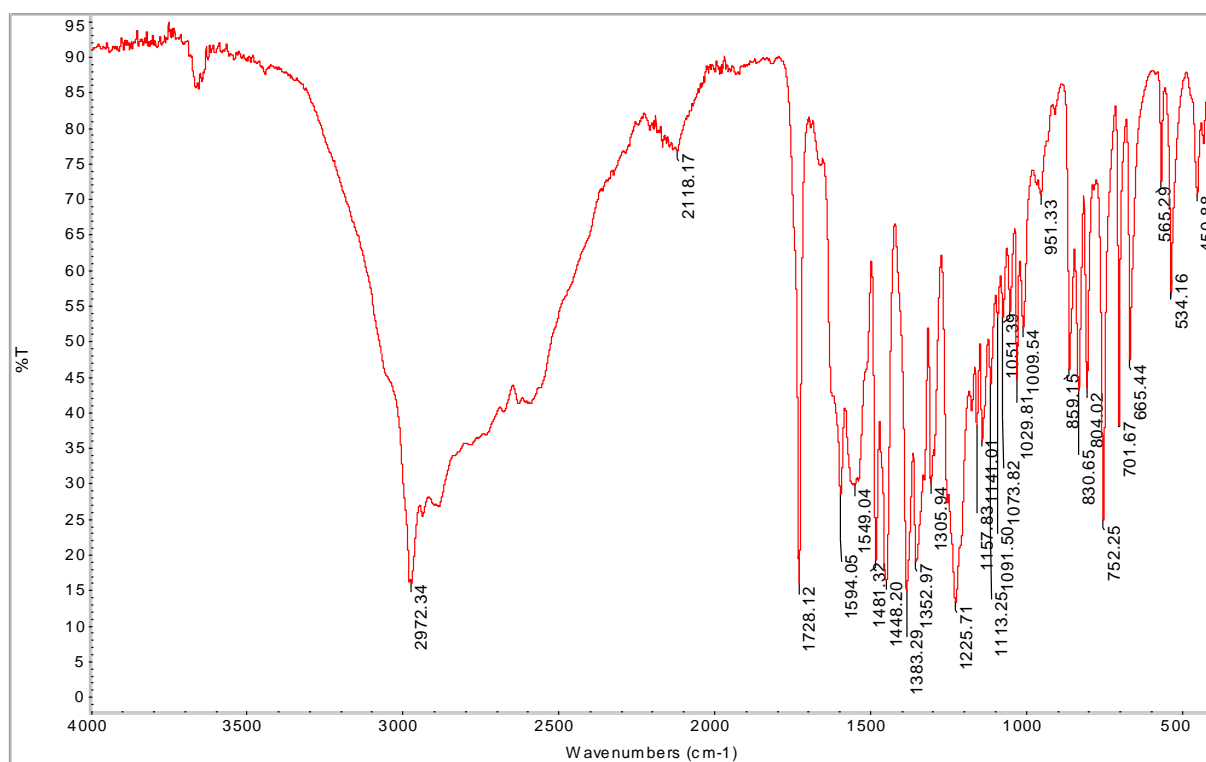


Figure S18. FT-IR spectra of [ValOEt][SA].

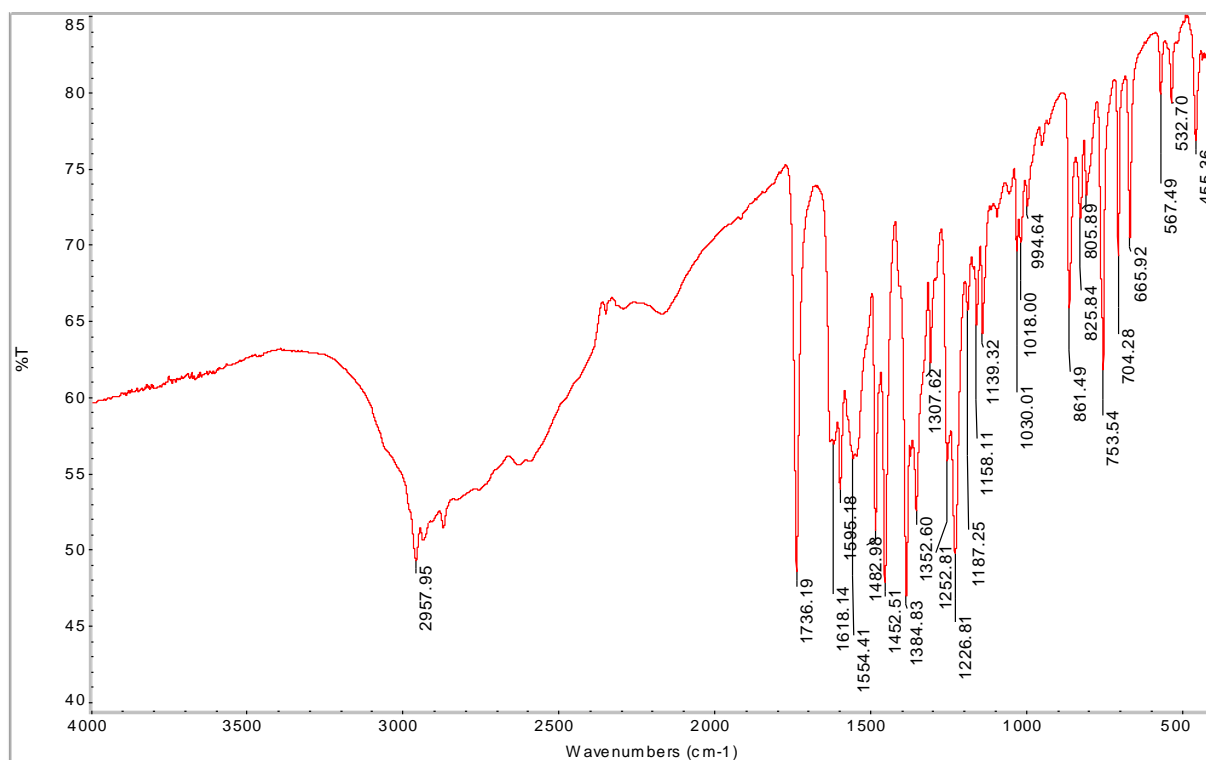


Figure S19. FT-IR spectra of [LeuOEt][SA].

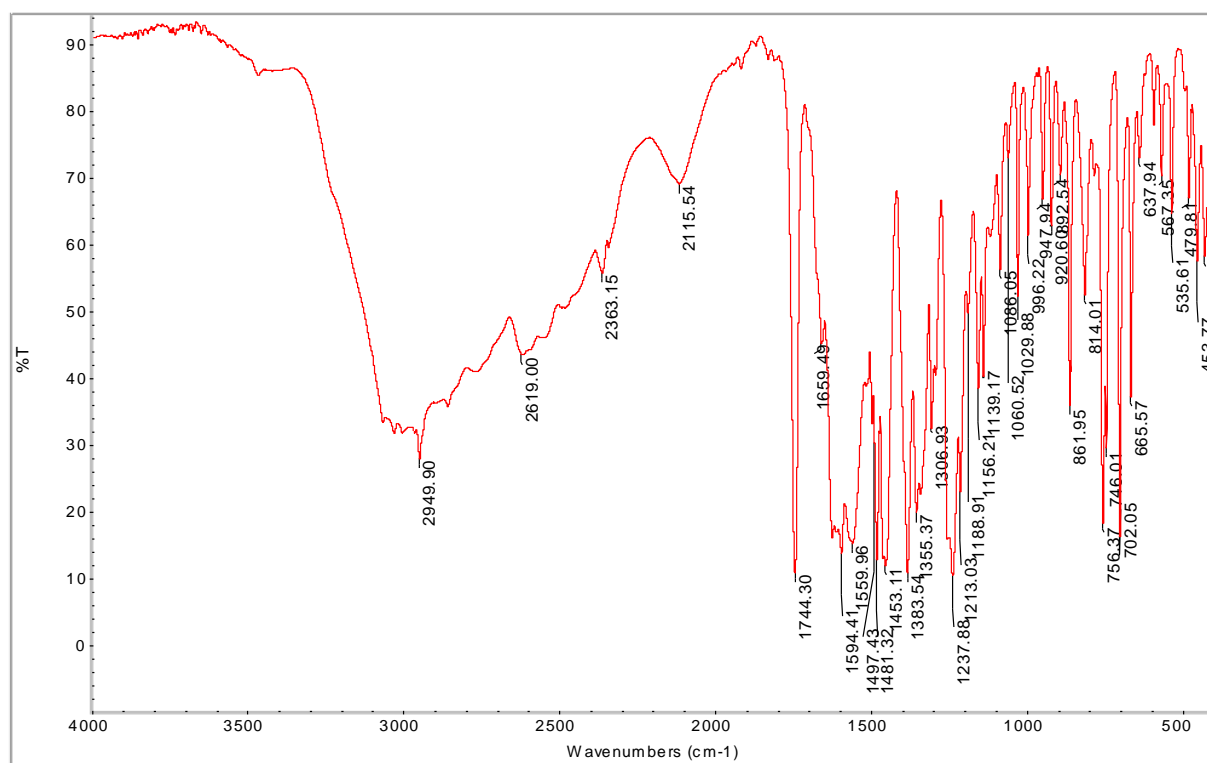


Figure S20. FT-IR spectra of [PheOEt][SA].

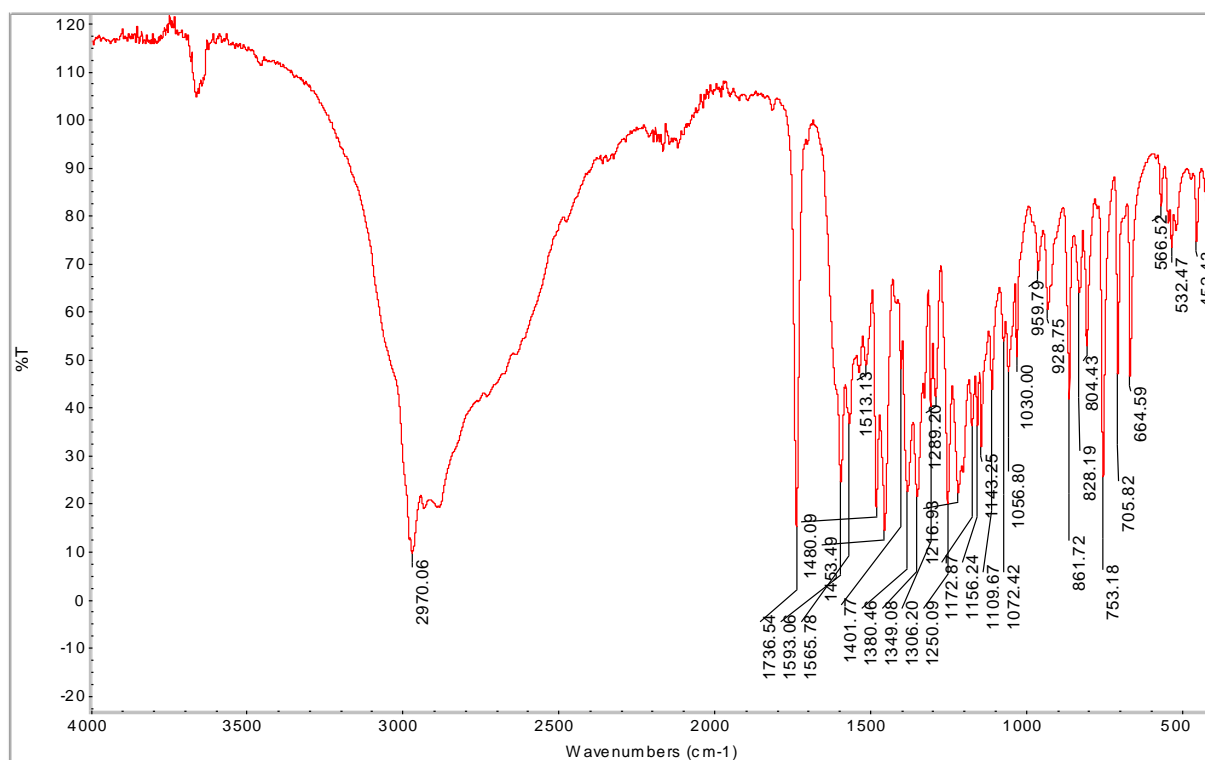


Figure S21. FT-IR spectra of [ValOPr][SA].

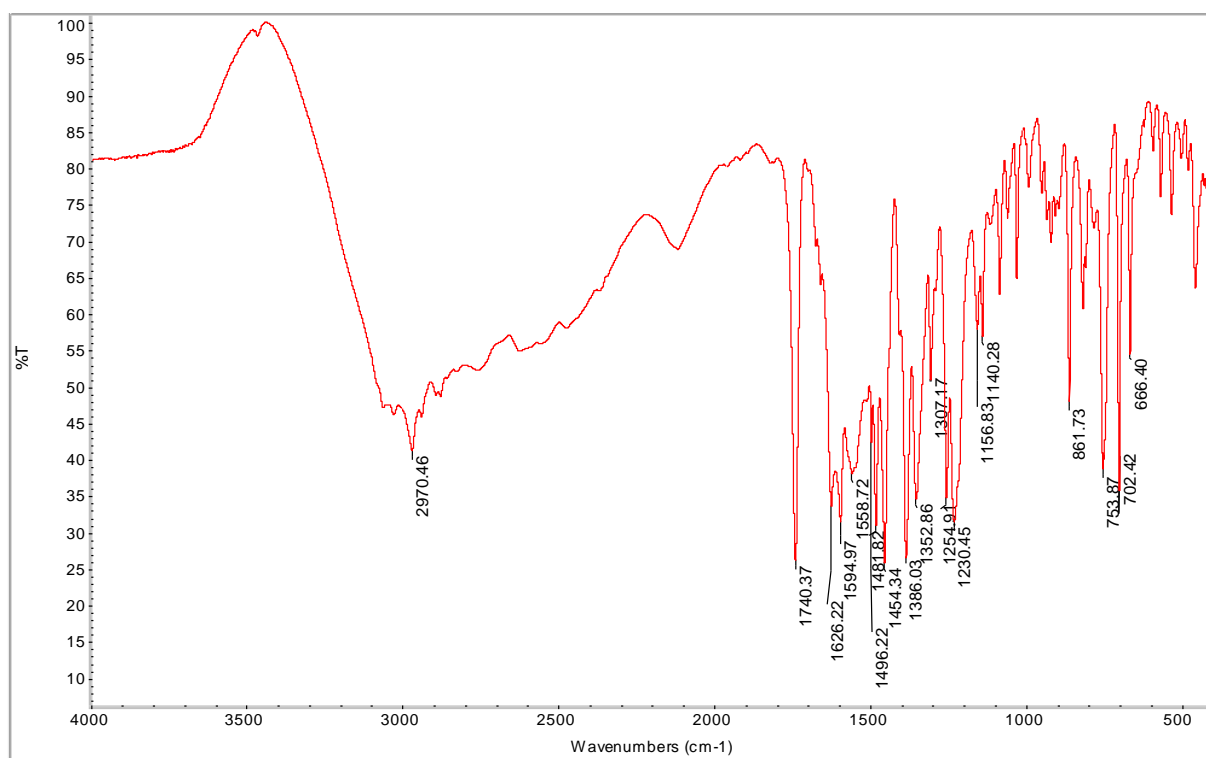


Figure S22. FT-IR spectra of [PheOPr][SA].

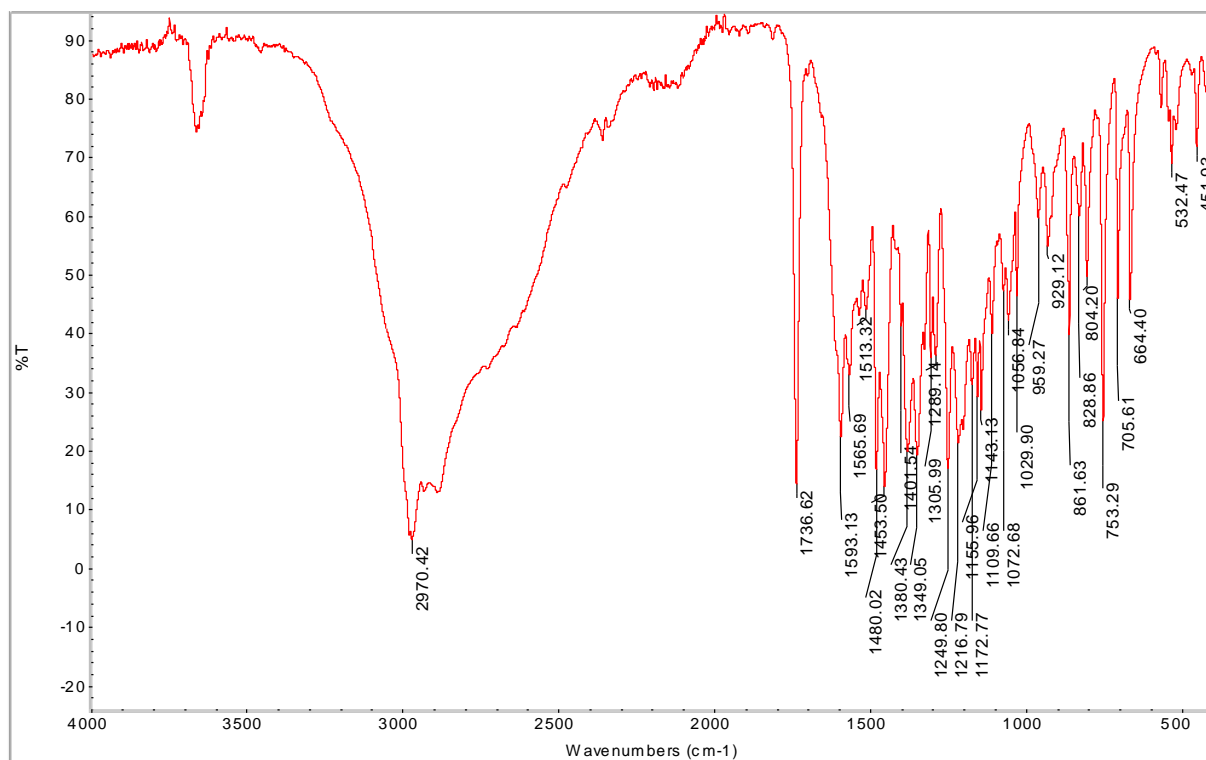


Figure S23. FT-IR spectra of [ValOiPr][SA].

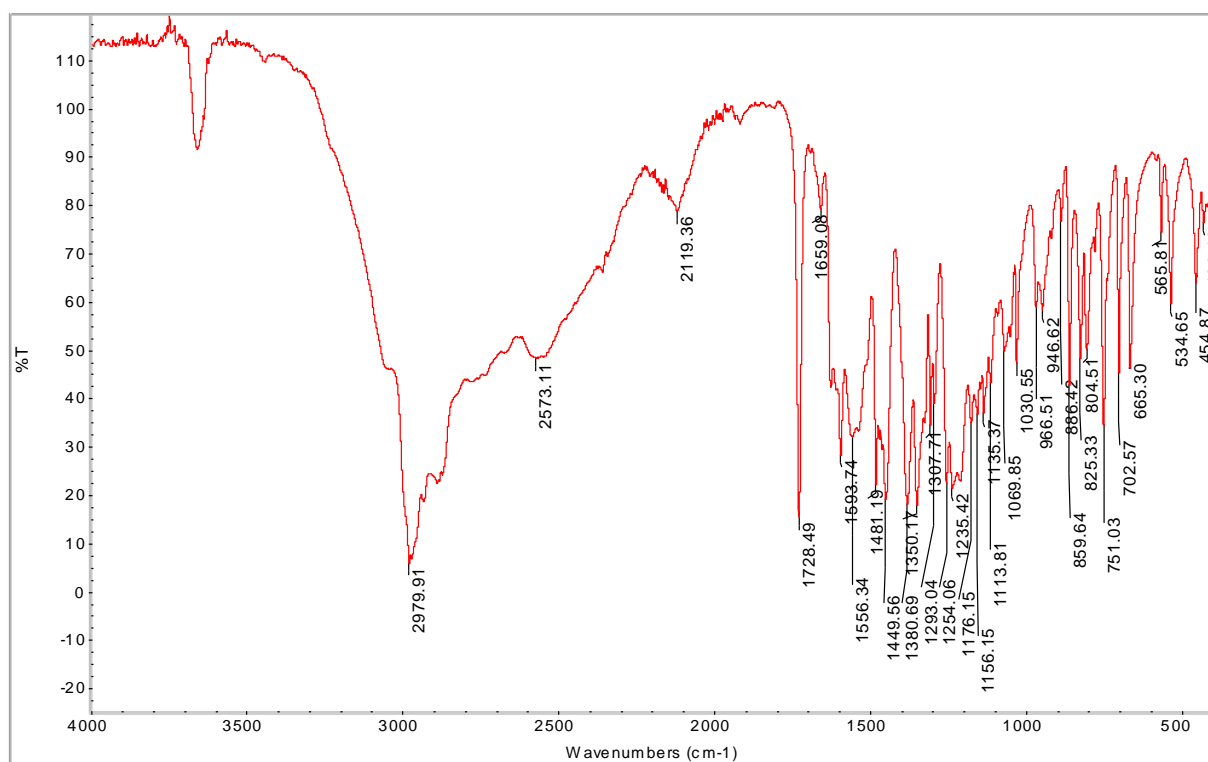


Figure S24. FT-IR spectra of [ValOBu][SA].

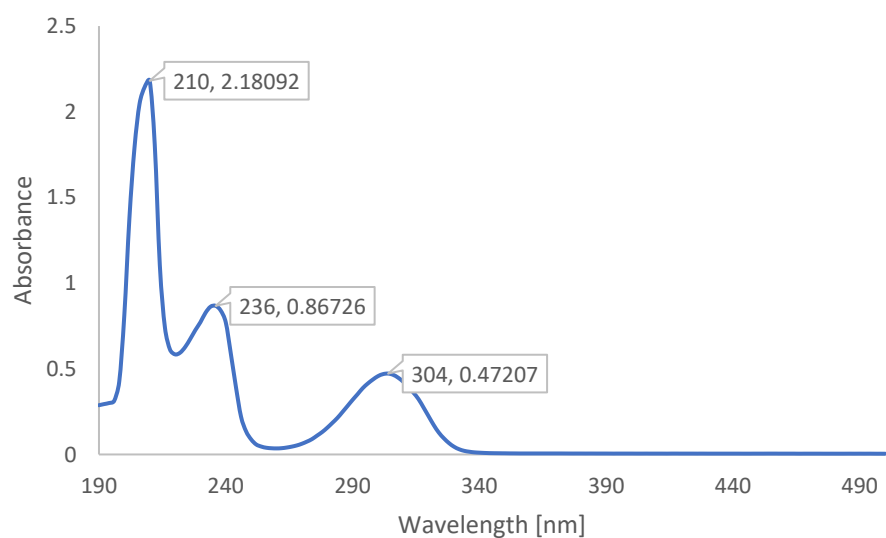


Figure S25. UV-Vis spectra of [PheOMe][SA].

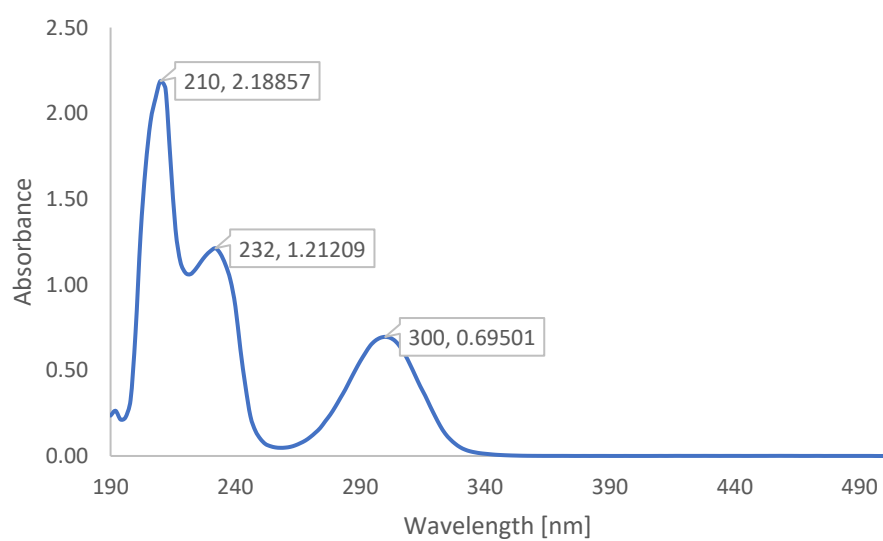


Figure S26. UV-Vis spectra of [ValOEt][SA].

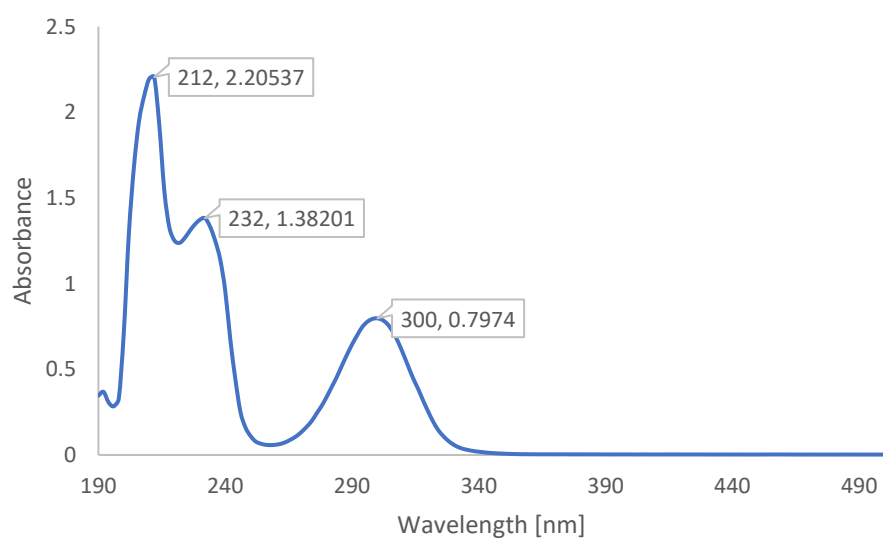


Figure S27. UV-Vis spectra of [LeuOEt][SA].

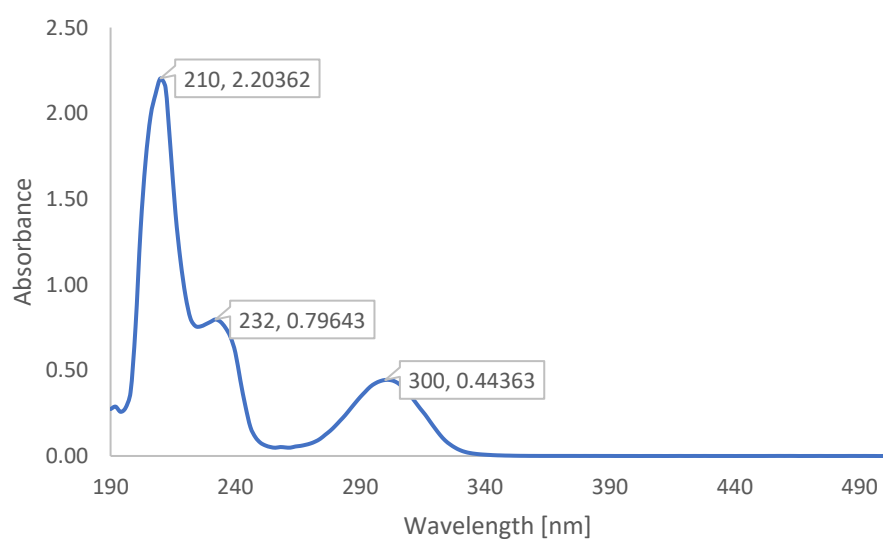


Figure S28. UV-Vis spectra of [PheOEt][SA].

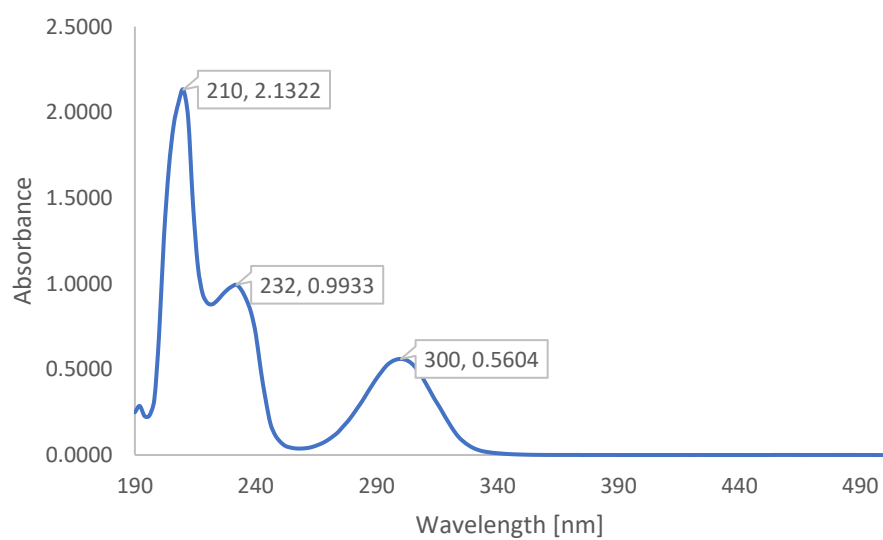


Figure S29. UV-Vis spectra of [ValOPr][SA].

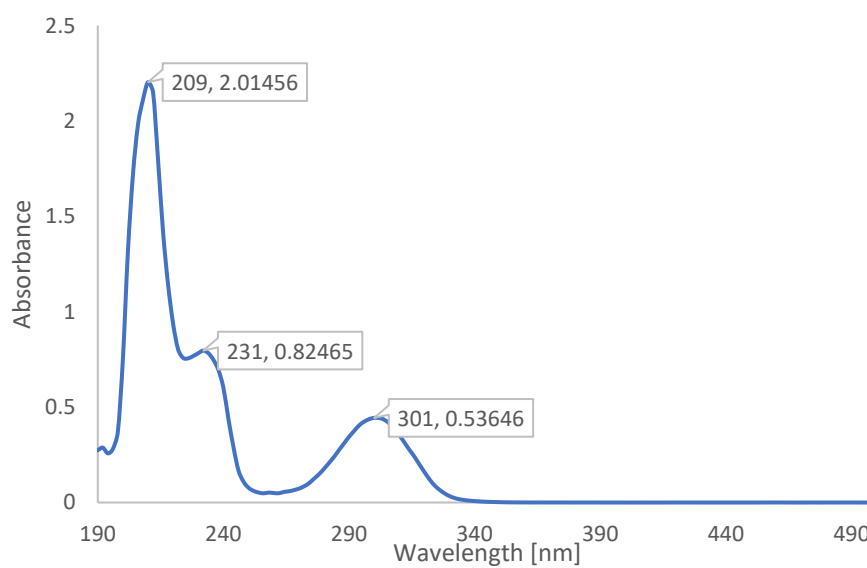


Figure S30. UV-Vis spectra of [PheOPr][SA].

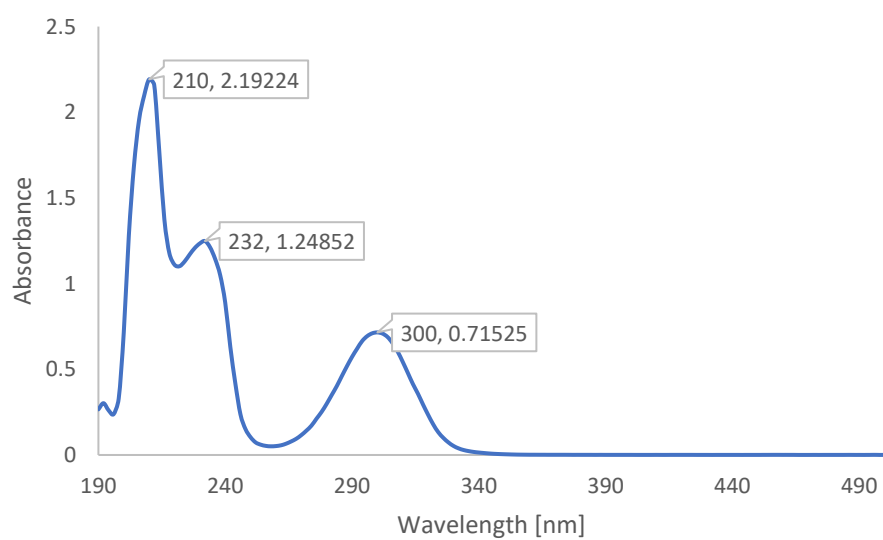


Figure S31. UV-Vis spectra of [ValOiPr][SA].

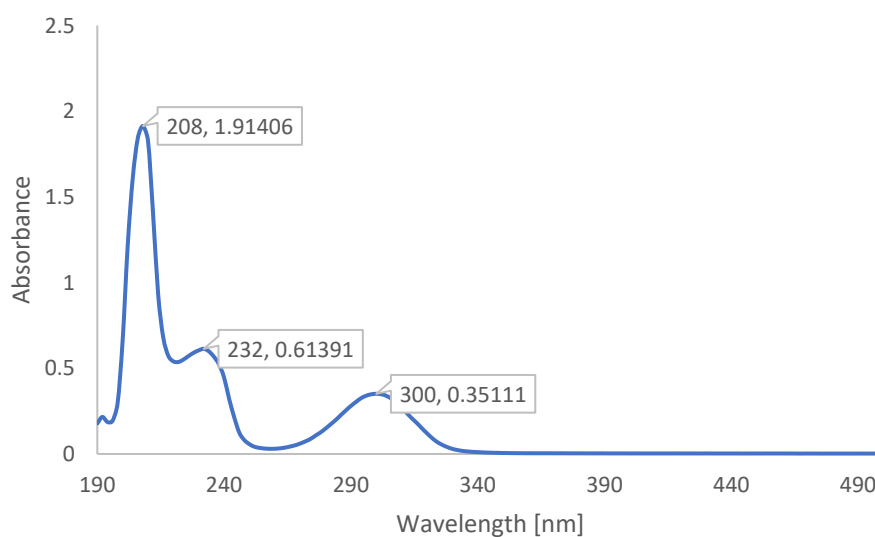


Figure S32. UV-Vis spectra of [ValOBu][SA].

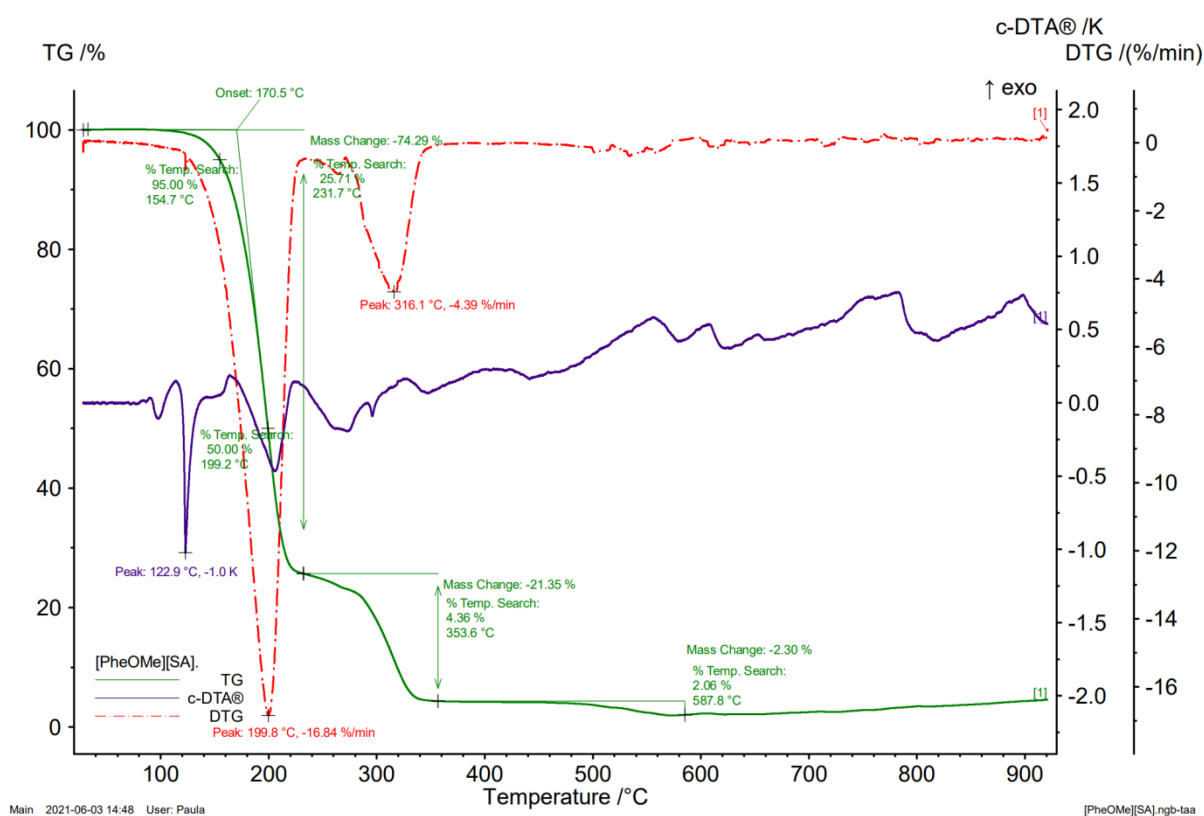


Figure S33. The TG, DTG, and c-DTA curves of [PheOMe][SA].

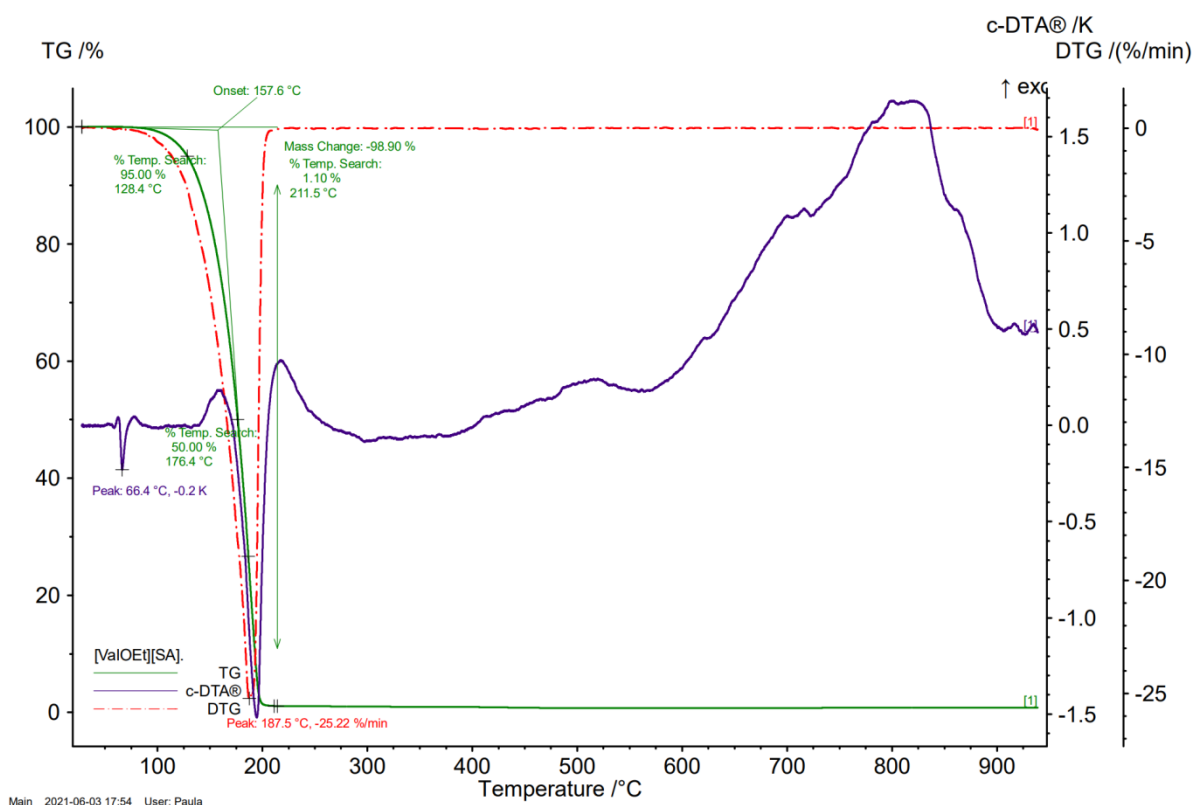


Figure S34. The TG, DTG, and c-DTA curves of [ValOEt][SA].

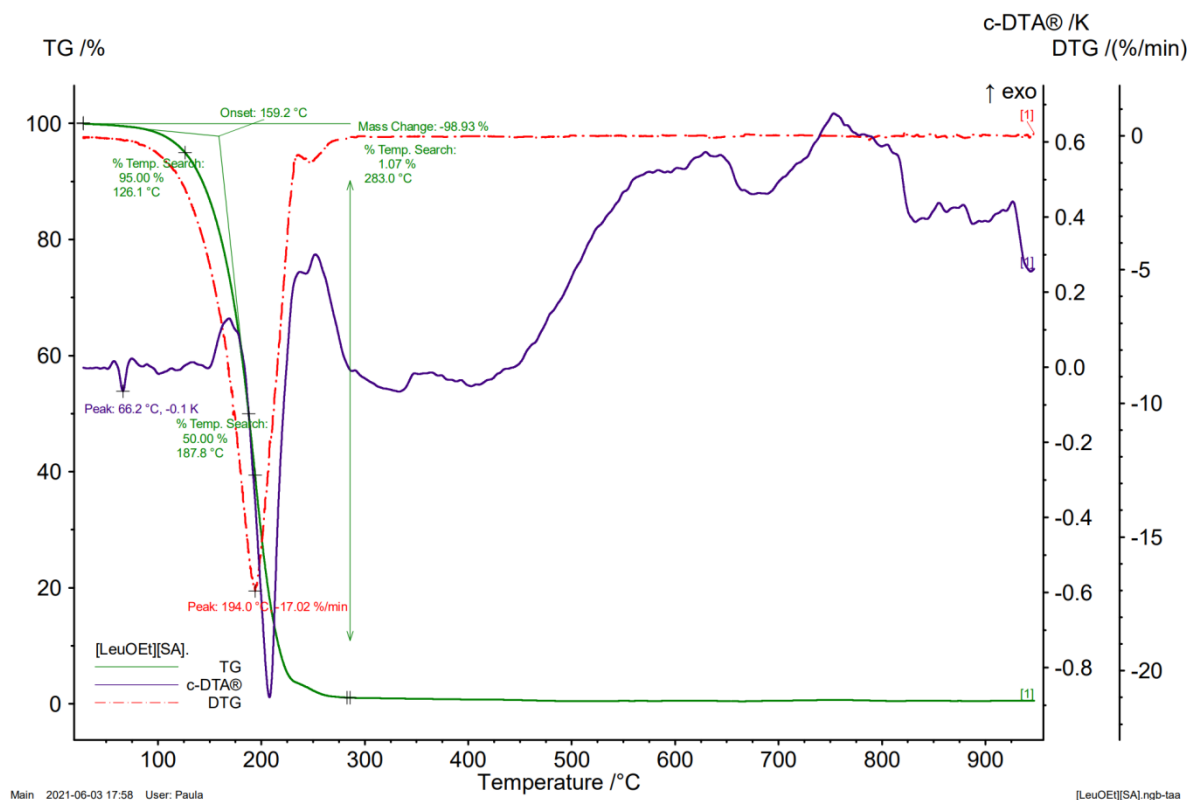


Figure S35. The TG, DTG, and c-DTA curves of [LeuOEt][SA].

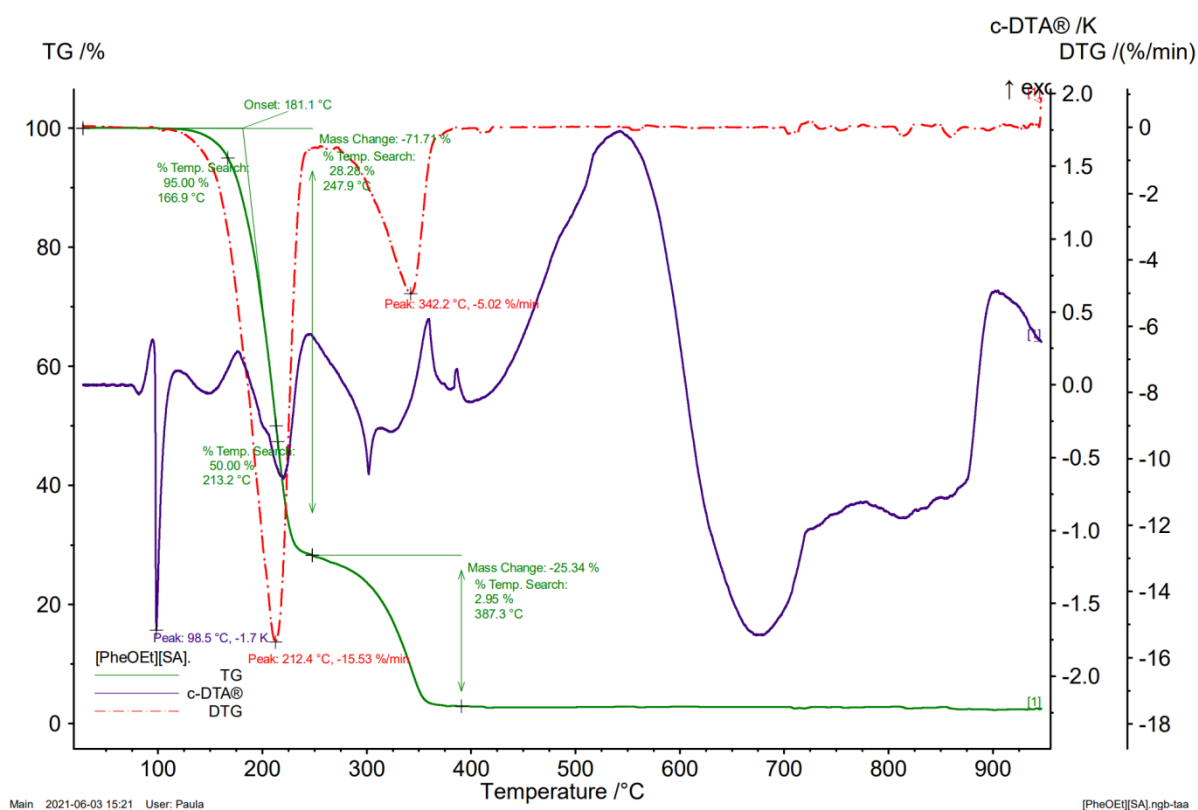


Figure S36. The TG, DTG, and c-DTA curves of [PheOEt][SA].

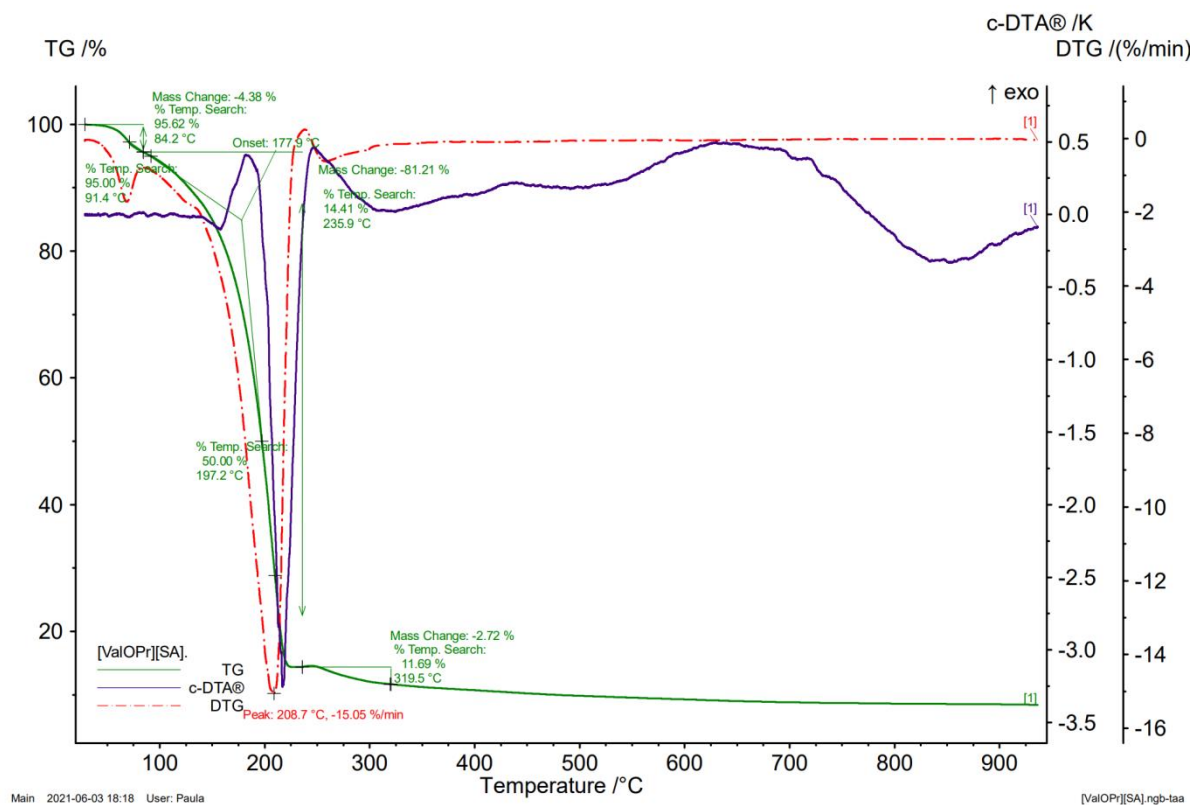


Figure S37. The TG, DTG, and c-DTA curves of [ValOPr][SA].

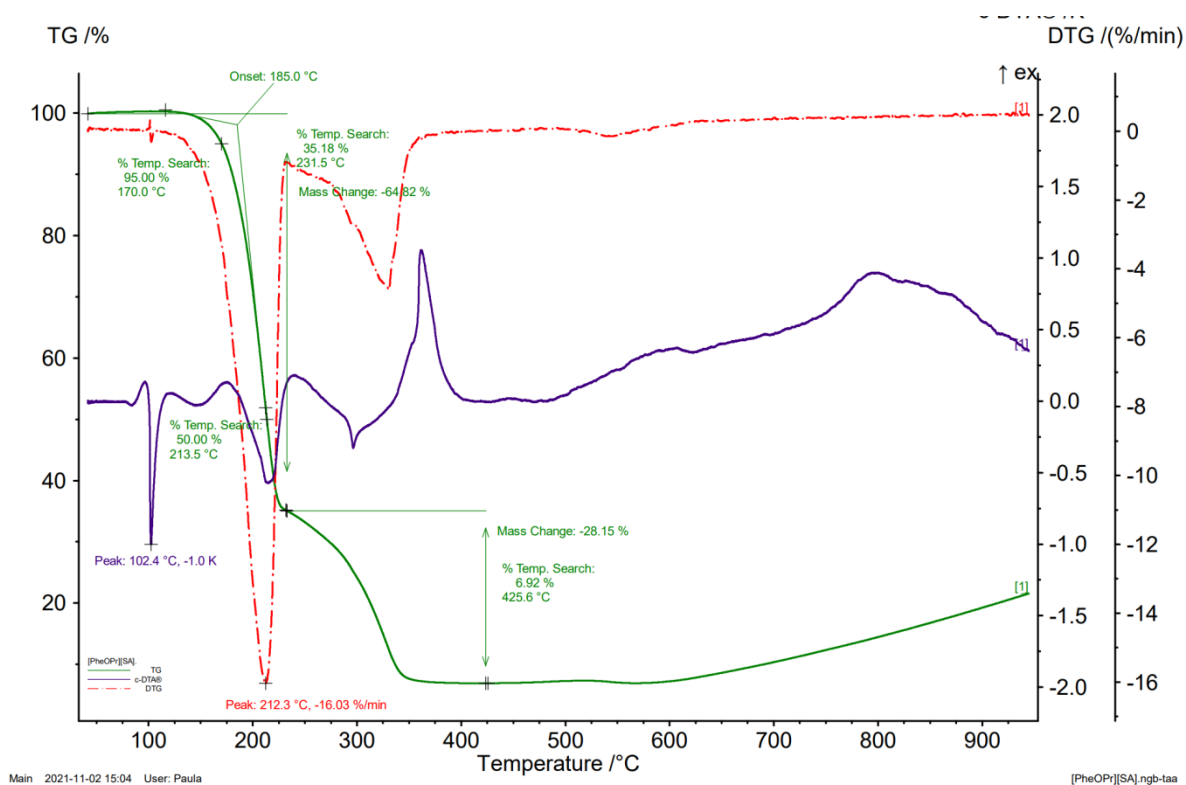


Figure S38. The TG, DTG, and c-DTA curves of [PheOPr][SA].

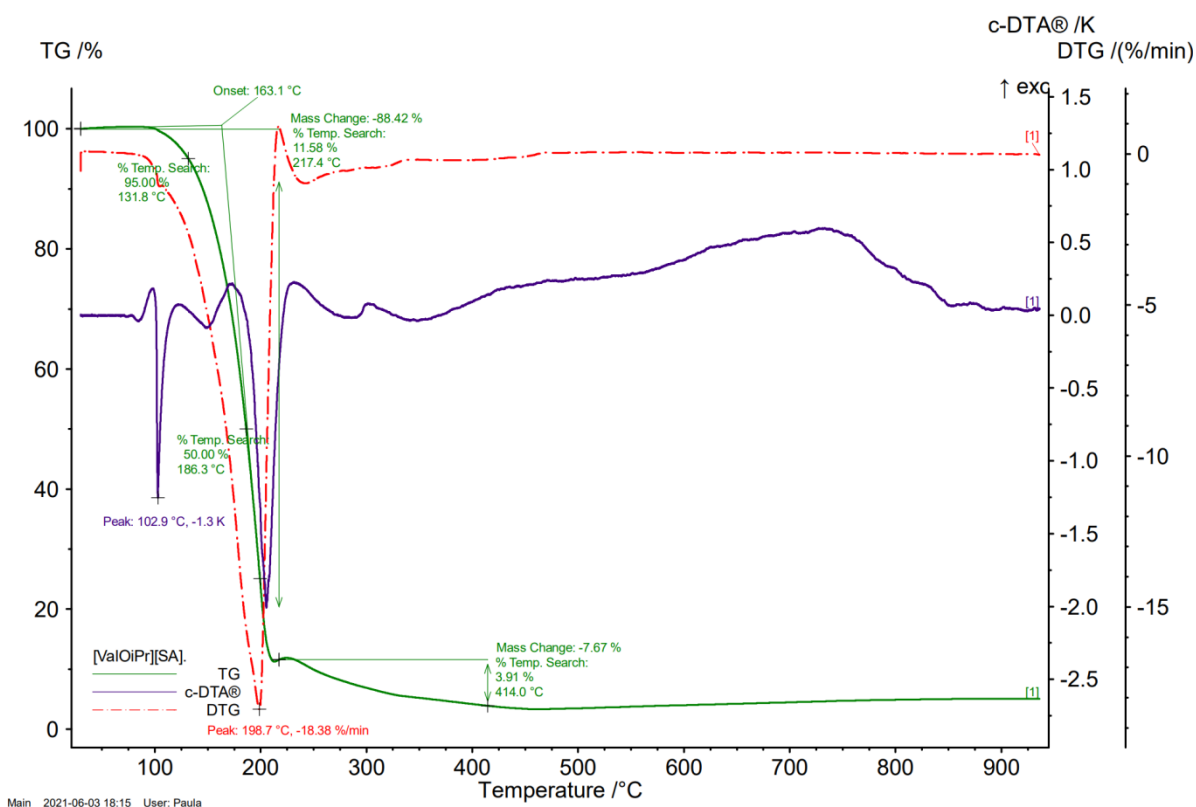


Figure S39. The TG, DTG, and c-DTA curves of [ValOiPr][SA].

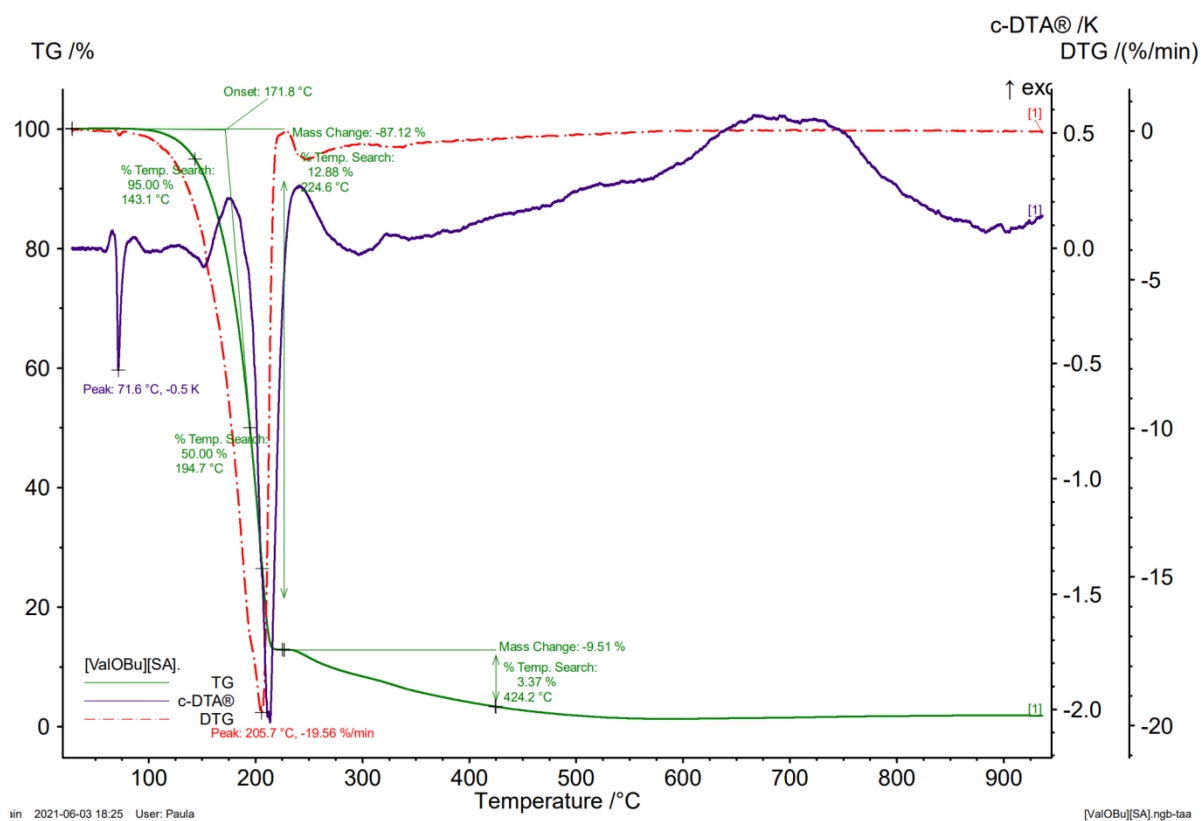


Figure S40. The TG, DTG, and c-DTA curves of [ValOBu][SA].

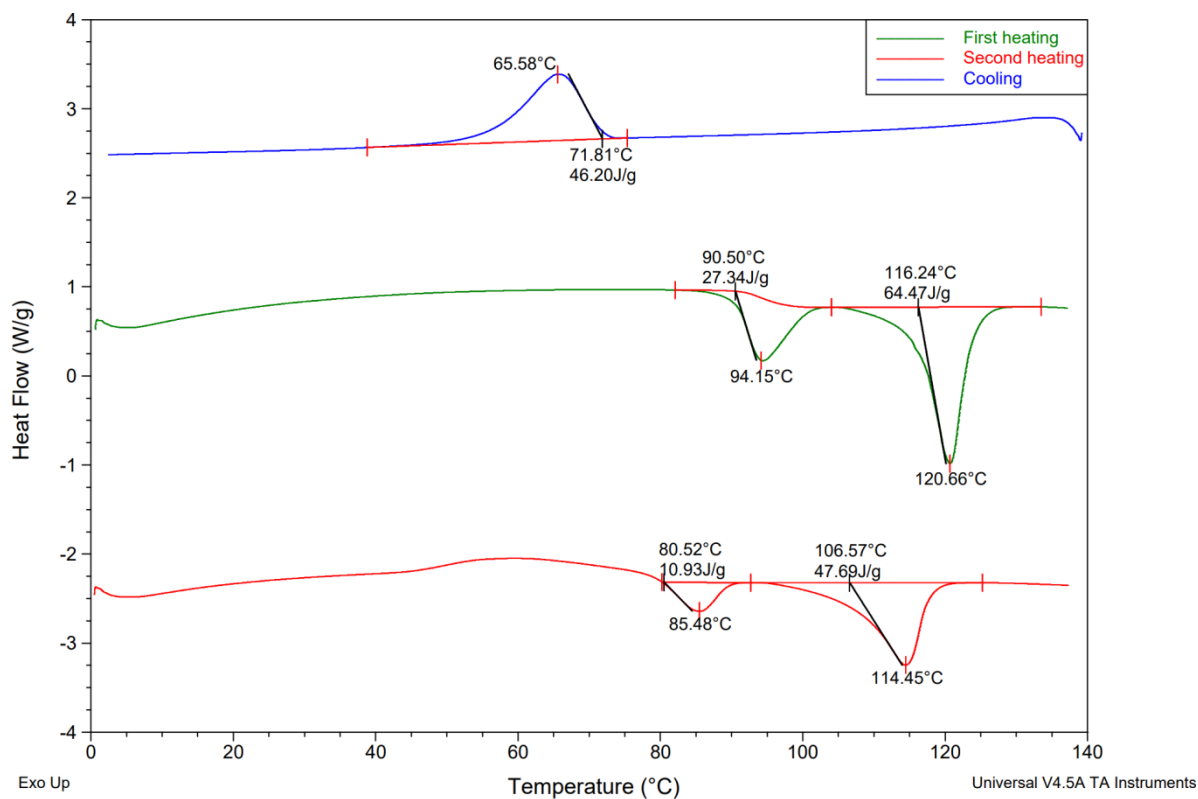


Figure S41. The DSC curves of [PheOMe][SA].

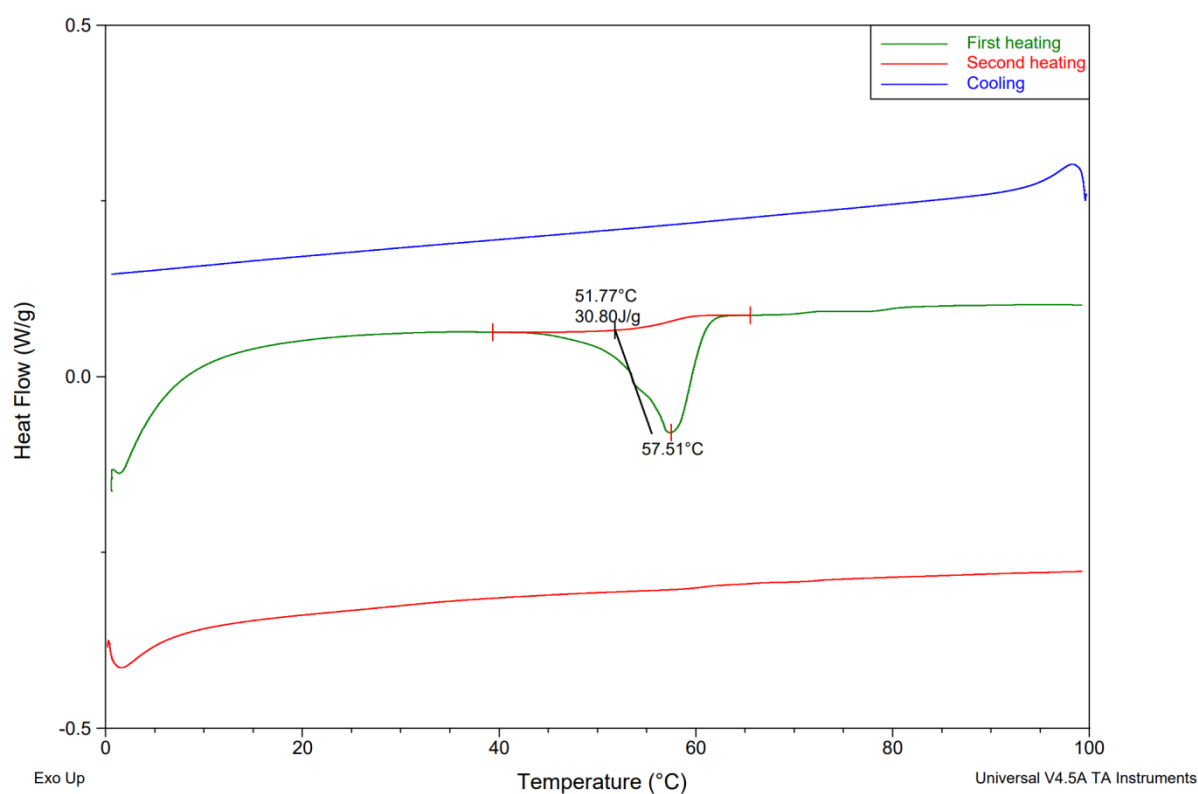


Figure S42. The DSC curves of [ValOEt][SA].

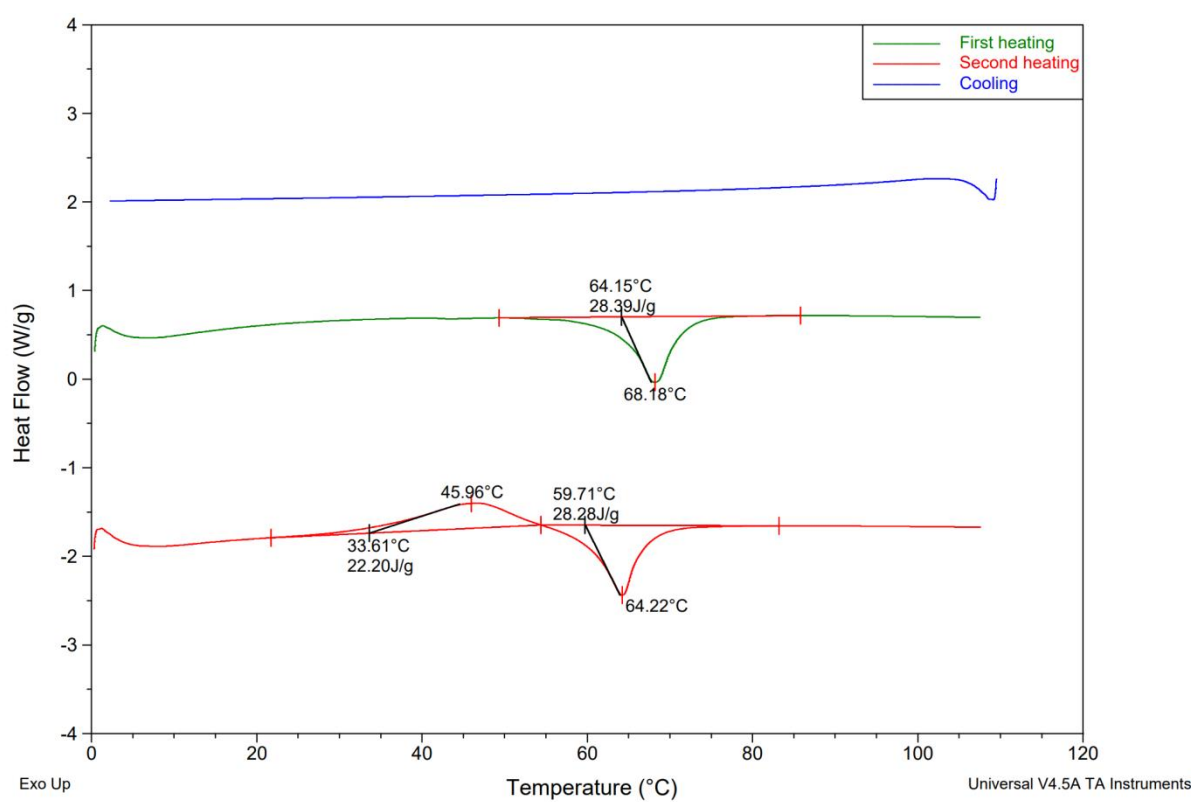


Figure S43. The DSC curves of [LeuOEt][SA].

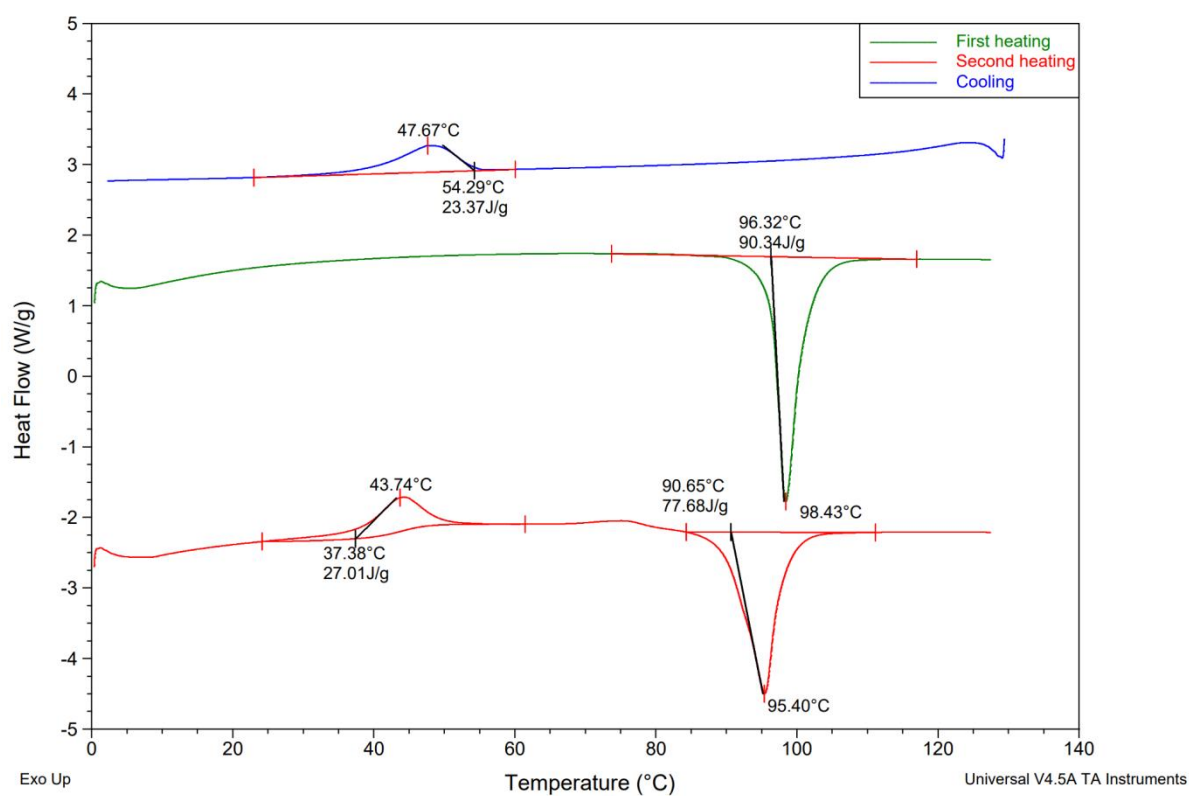


Figure S44. The DSC curves of [PheOEt][SA].

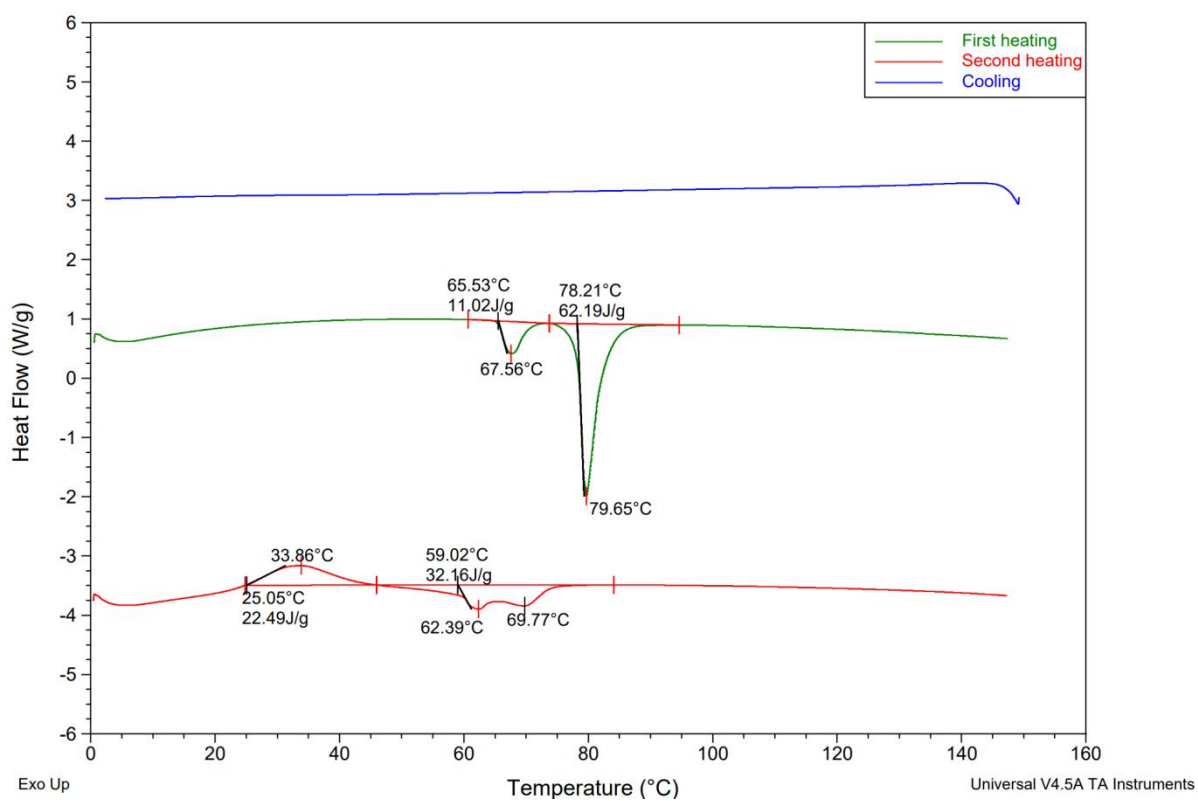


Figure S45. The DSC curves of [ValOPr][SA].

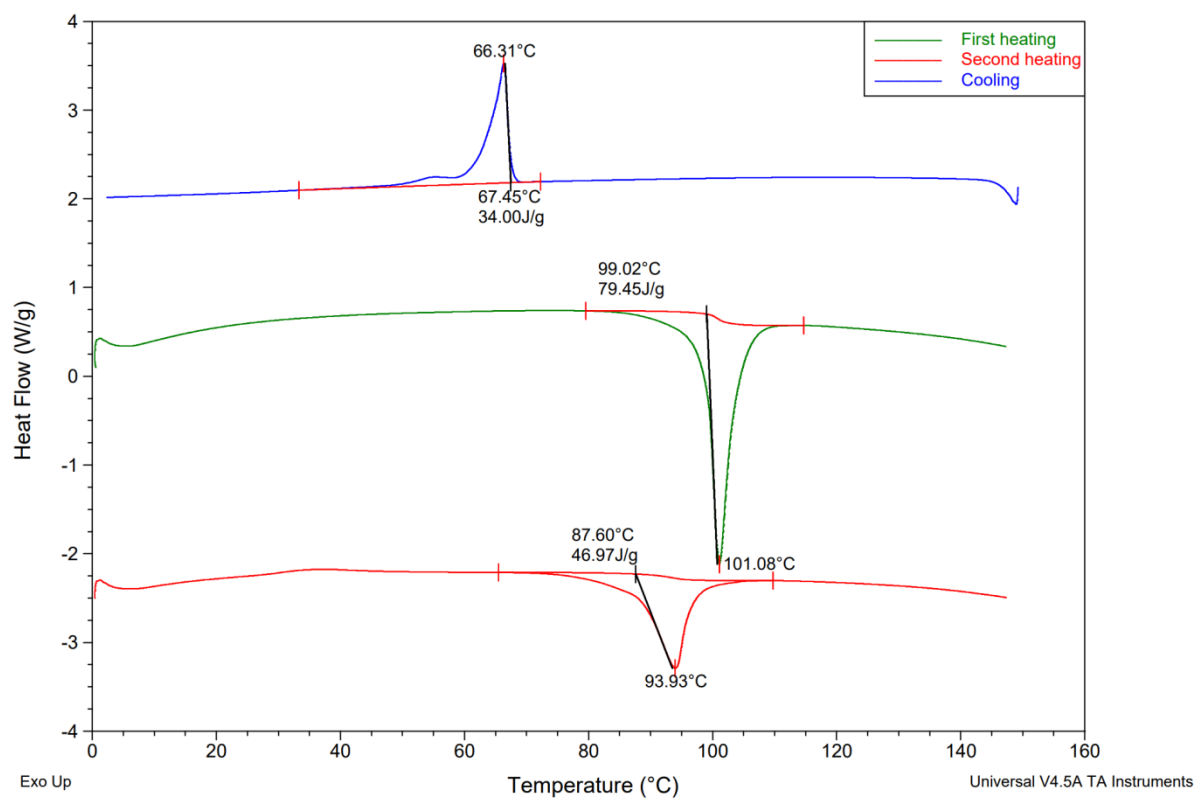


Figure S46. The DSC curves of [PheOPr][SA].

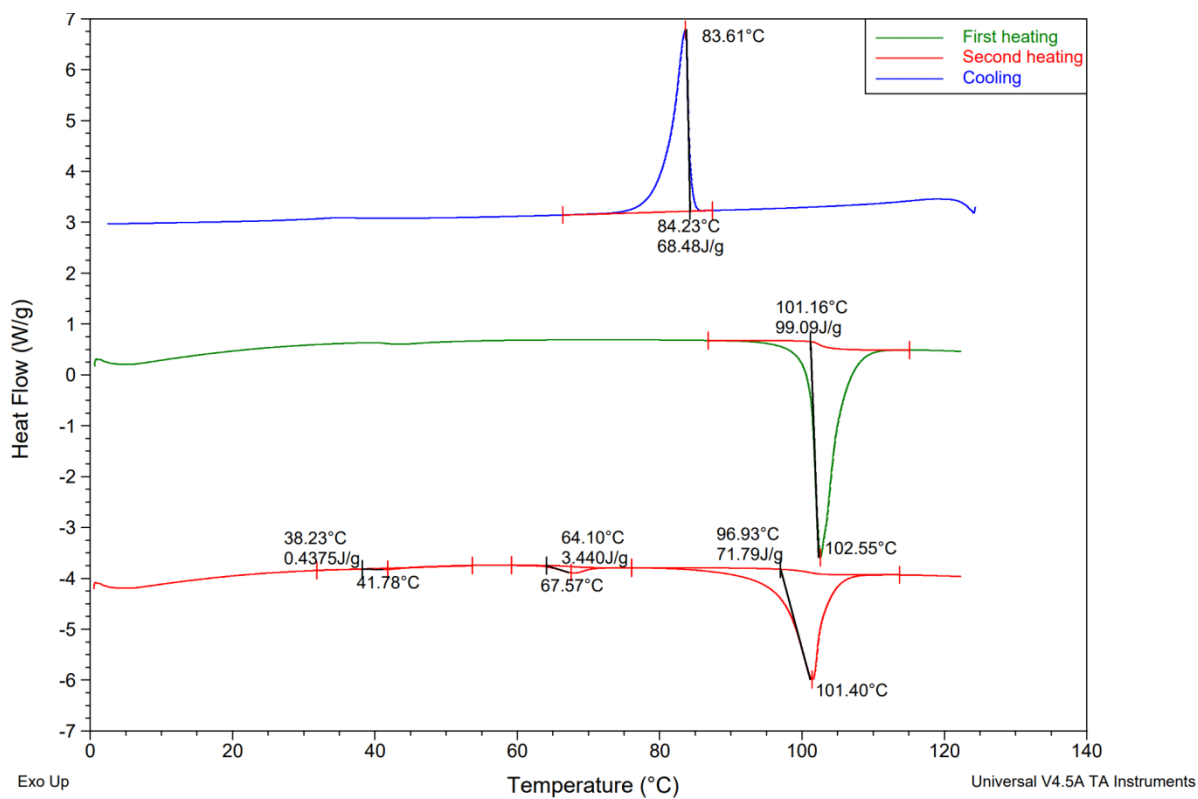


Figure S47. The DSC curves of [ValOiPr][SA].

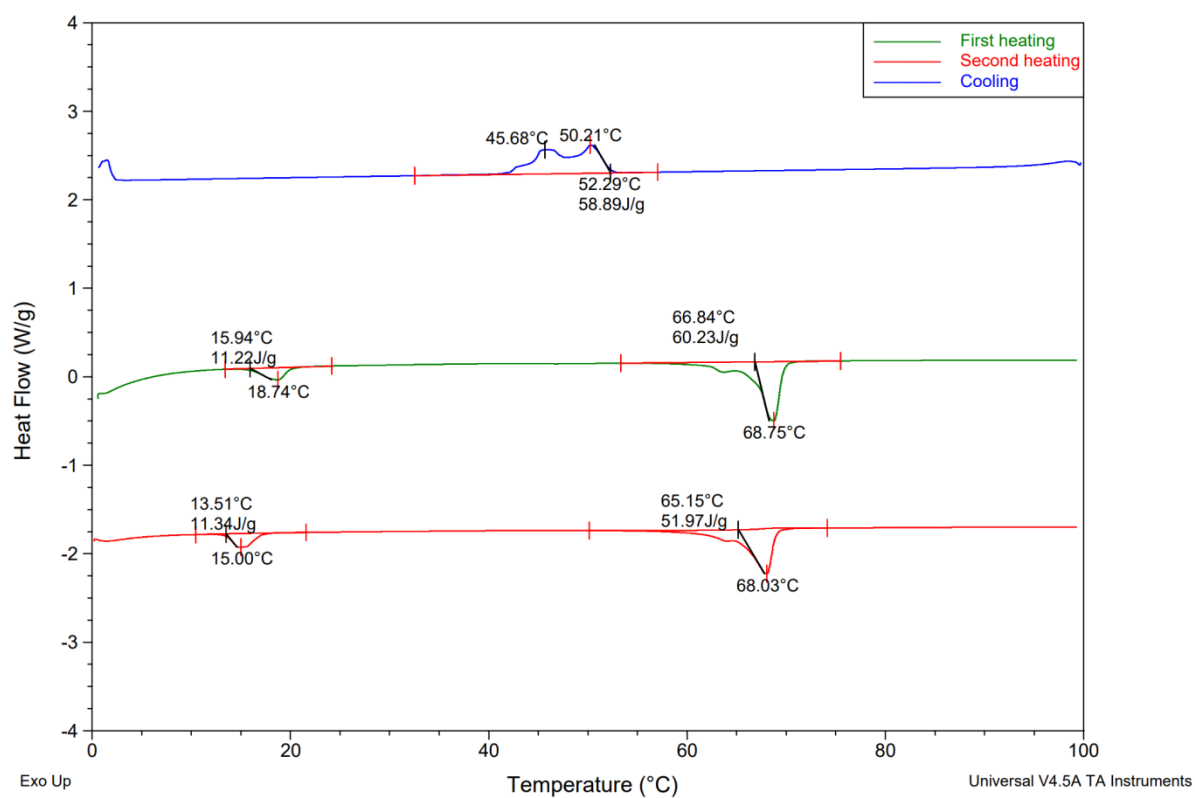


Figure S48. The DSC curves of [ValOBu][SA].

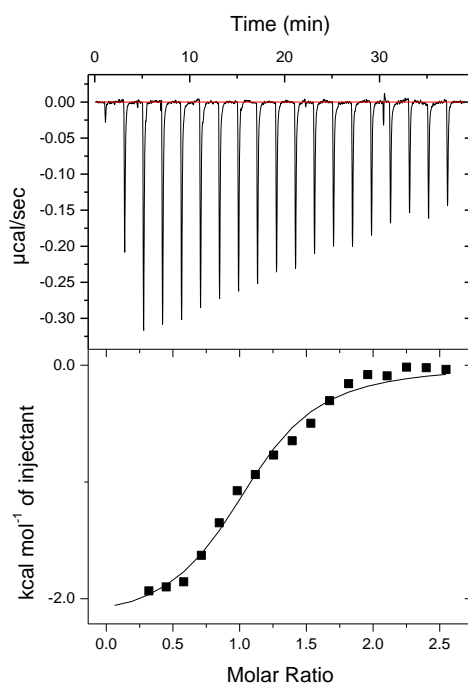


Figure S49. Raw data of titration of 350 μM [LeuOEt][SA] with 27 μM at 25 °C (upper panel). Integrated heat profile of calorimetric titration shown in upper panel (lower panel). The solid lines represent the best fit to a single binding site model.

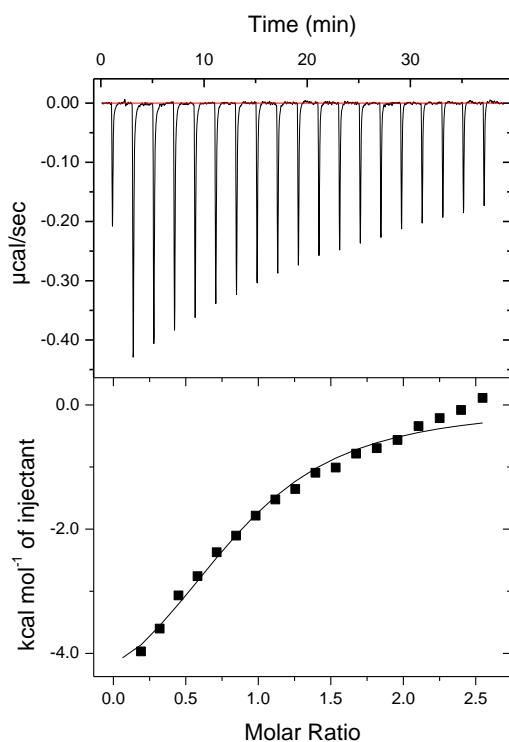


Figure S50. Raw data of titration of 500 µM [PheOPr][SA] with 27 µM at 25 °C (upper panel). Integrated heat profile of calorimetric titration shown in upper panel (lower panel). The solid lines represent the best fit to a single binding site model.

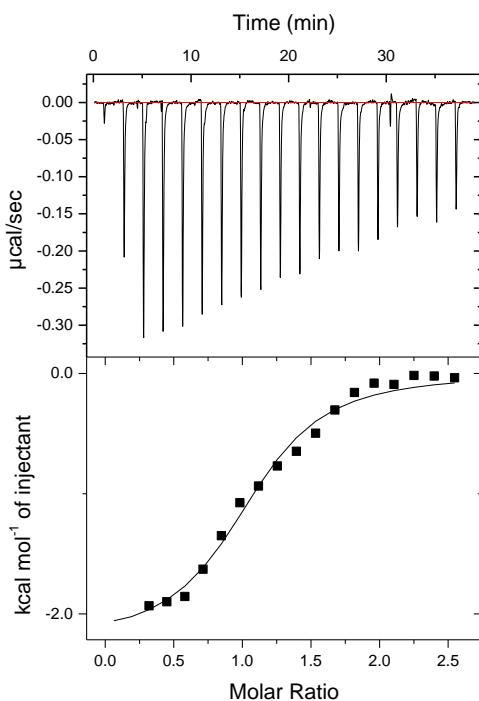


Figure S51. Raw data of titration of 500 µM [PheOPr][SA] with 27 µM at 25 °C (upper panel). Integrated heat profile of calorimetric titration shown in upper panel (lower panel). The solid lines represent the best fit to a single binding site model.

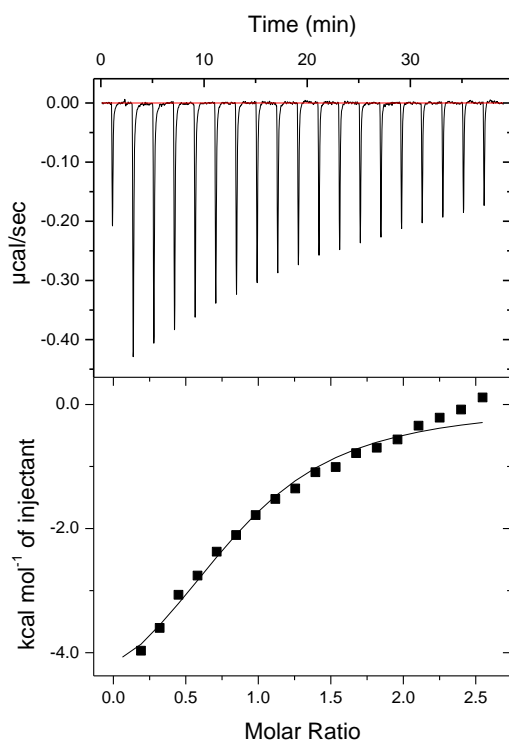


Figure S52. Raw data of titration of 350 μM [ValOiPr][SA] with 27 μM at 25 $^{\circ}\text{C}$ (upper panel). Integrated heat profile of calorimetric titration shown in upper panel (lower panel). The solid lines represent the best fit to a single binding site model.

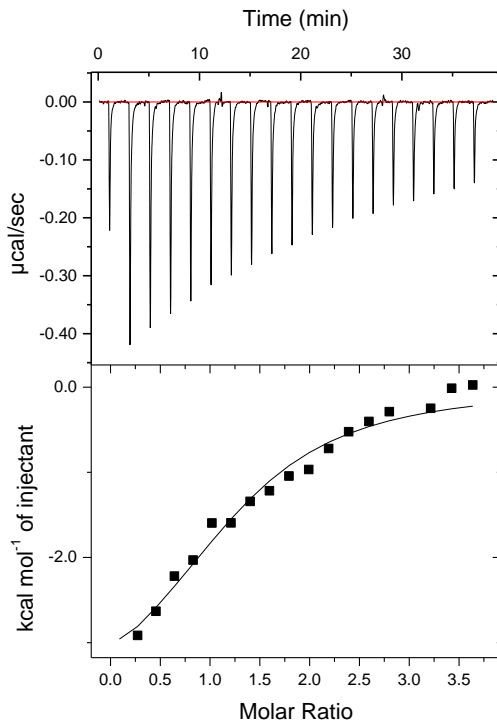


Figure S53. Raw data of titration of 500 μM [ValOBu][SA] with 27 μM at 25 $^{\circ}\text{C}$ (upper panel). Integrated heat profile of calorimetric titration shown in upper panel (lower panel). The solid lines represent the best fit to a single binding site model.

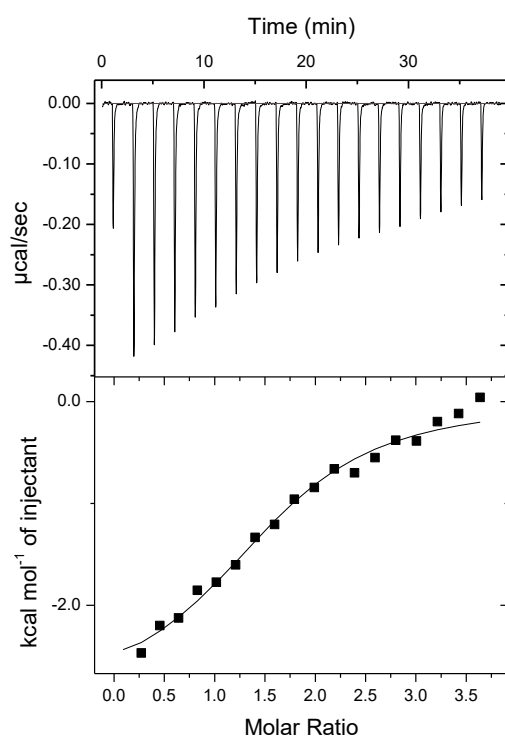


Figure S54. Raw data of titration of 500 μM [ValOPr][SA] with 27 μM at 25 $^{\circ}\text{C}$ (upper panel). Integrated heat profile of calorimetric titration shown in upper panel (lower panel). The solid lines represent the best fit to a single binding site model.

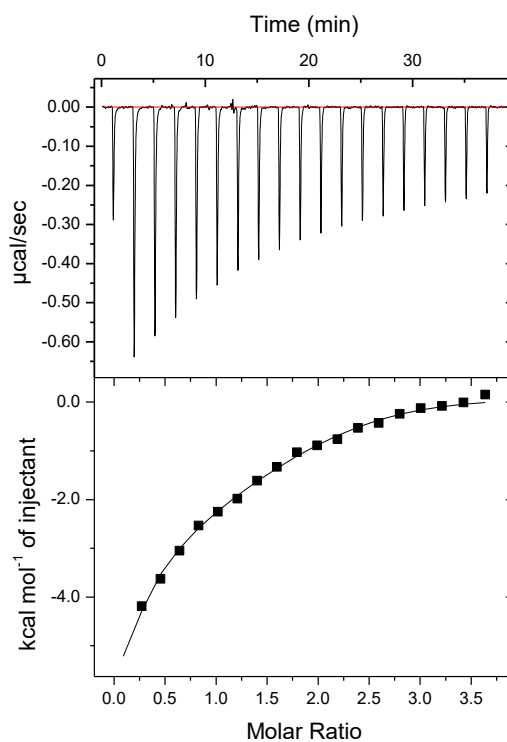


Figure S55. Raw data of titration of 500 μM [ValOEt][SA] with 27 μM at 25 $^{\circ}\text{C}$ (upper panel). Integrated heat profile of calorimetric titration shown in upper panel (lower panel). The solid lines represent the best fit to a single binding site model.

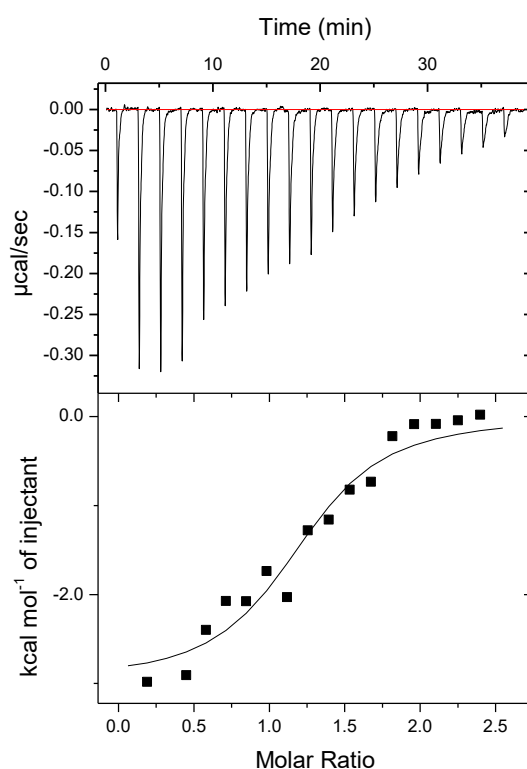


Figure S56. Raw data of titration of 500 μM [PheOEt][SA] with 27 μM at 25 $^{\circ}\text{C}$ (upper panel). Integrated heat profile of calorimetric titration shown in upper panel (lower panel). The solid lines represent the best fit to a single binding site model.

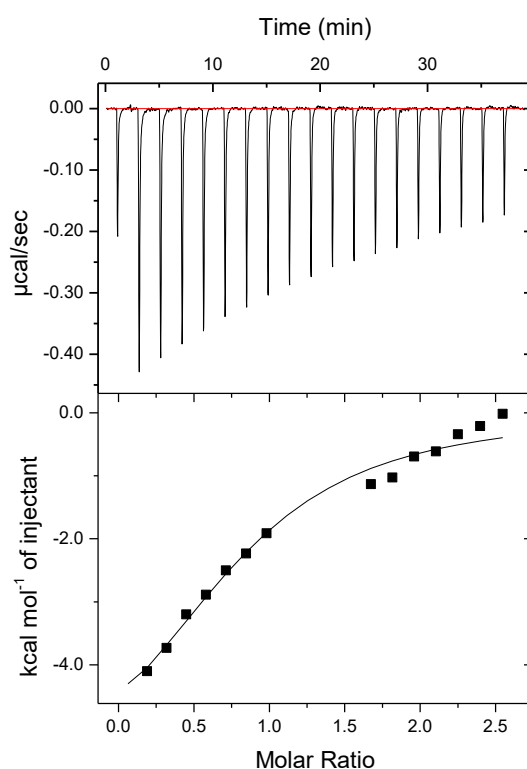


Figure S57. Raw data of titration of 500 μM [PheOMe][SA] with 27 μM at 25 $^{\circ}\text{C}$ (upper panel). Integrated heat profile of calorimetric titration shown in upper panel (lower panel). The solid lines represent the best fit to a single binding site model.