Supplementary material to:

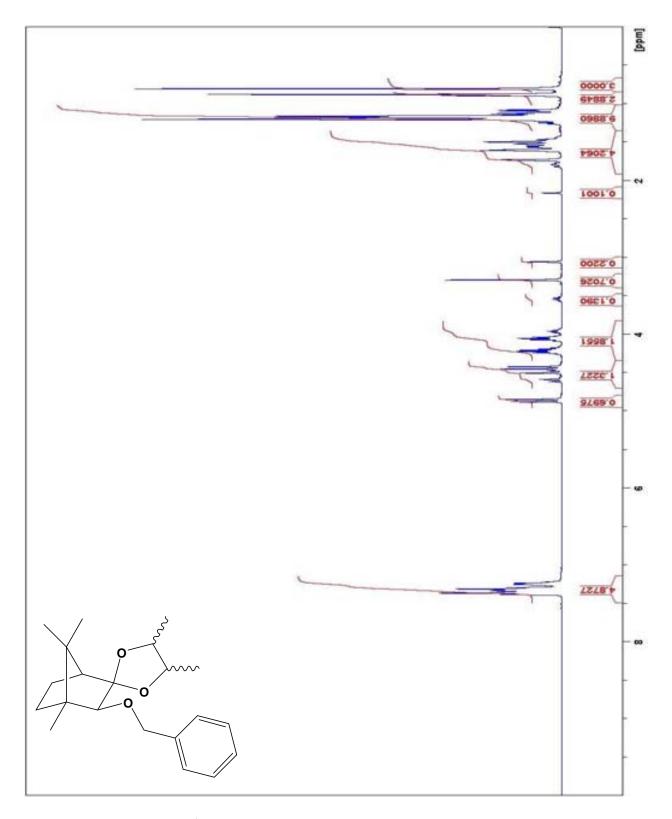
G.A. Boyle, T. Govender, H.G. Kruger and G.E.M. Maguire, *S. Afr. J. Chem.*, 2009, **62**, 113–123.

Supplementary Information Synthesis of novel 3-hydroxy-3-pyridylcamphor derivatives

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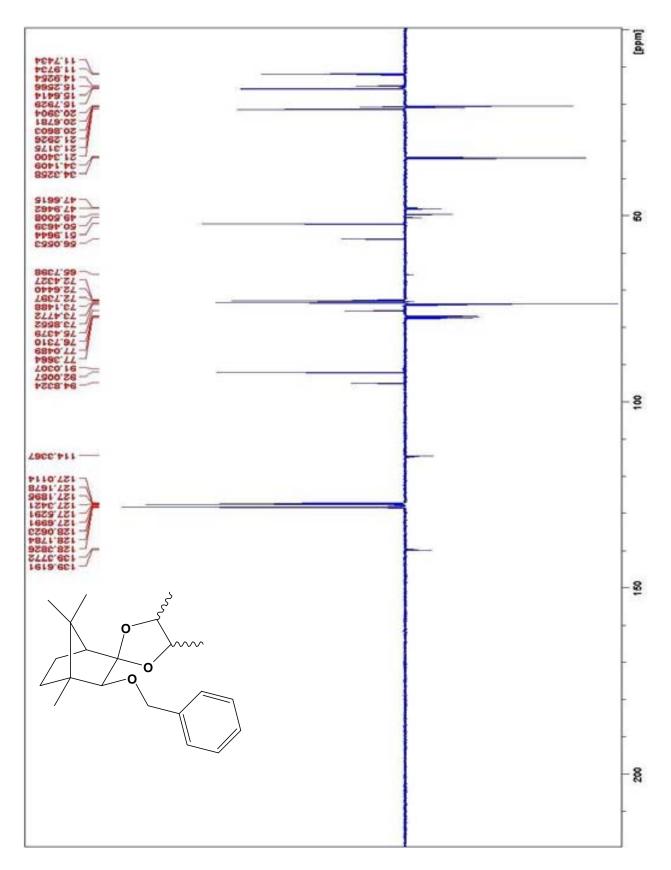
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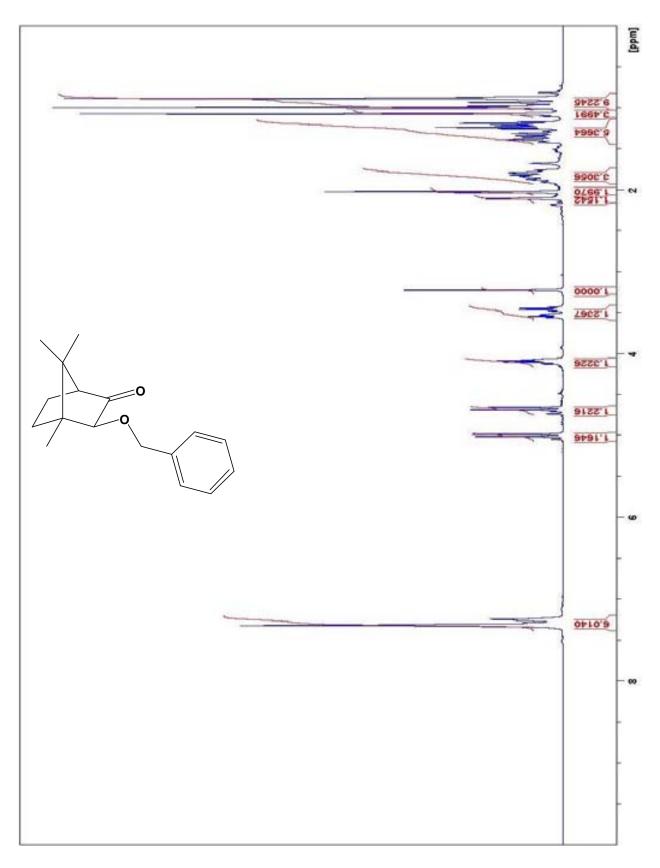


SECTION 1: ¹H AND ¹³C APT NMR SPECTRA OF NOVEL COMPOUNDS

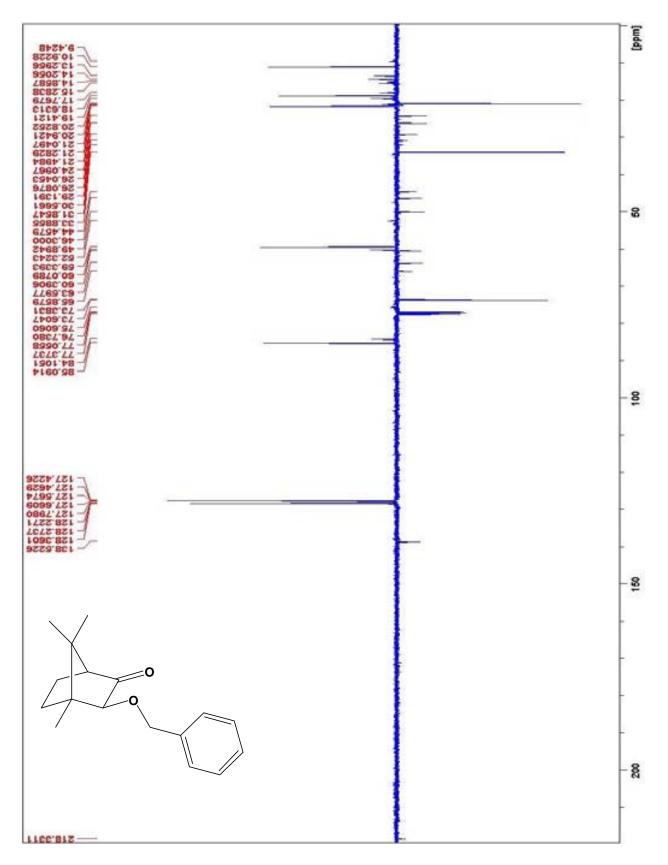
¹H NMR Spectrum (400 MHz) of Compound **11**



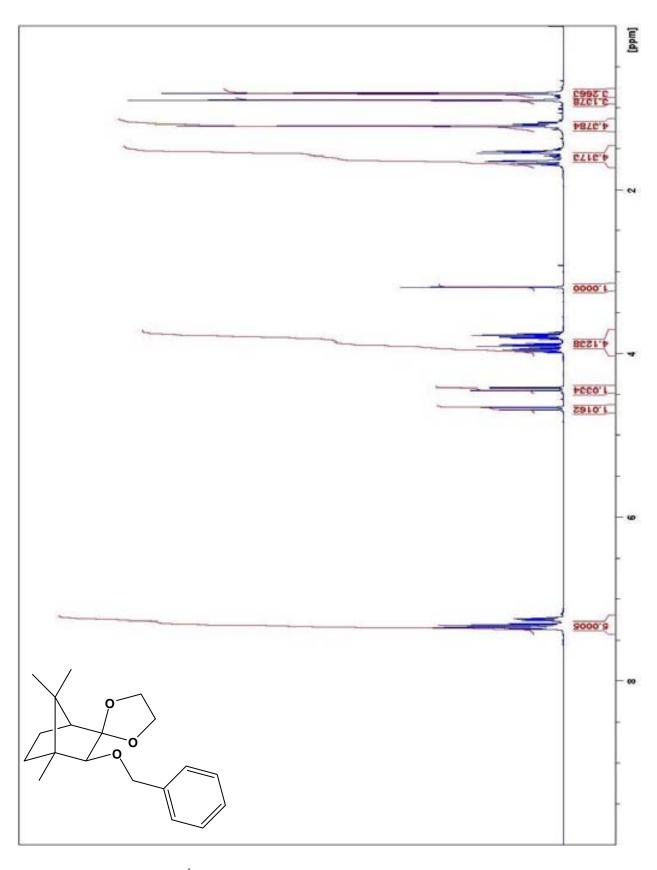
 ^{13}C APT NMR Spectrum (400MHz) of Compound 11



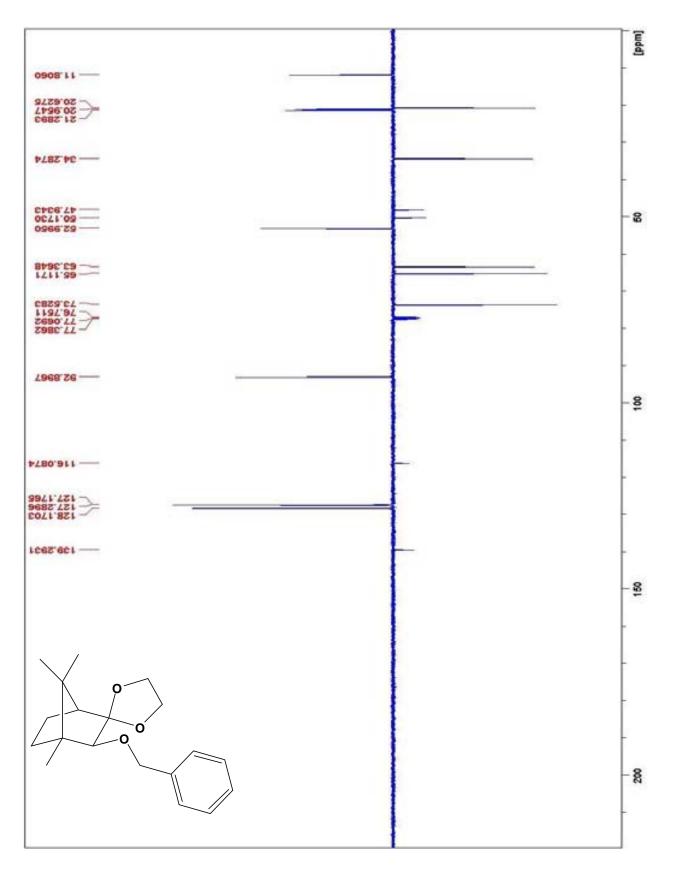
 ^1H NMR Spectrum (400 MHz) of Compound 12 obtained from Method A



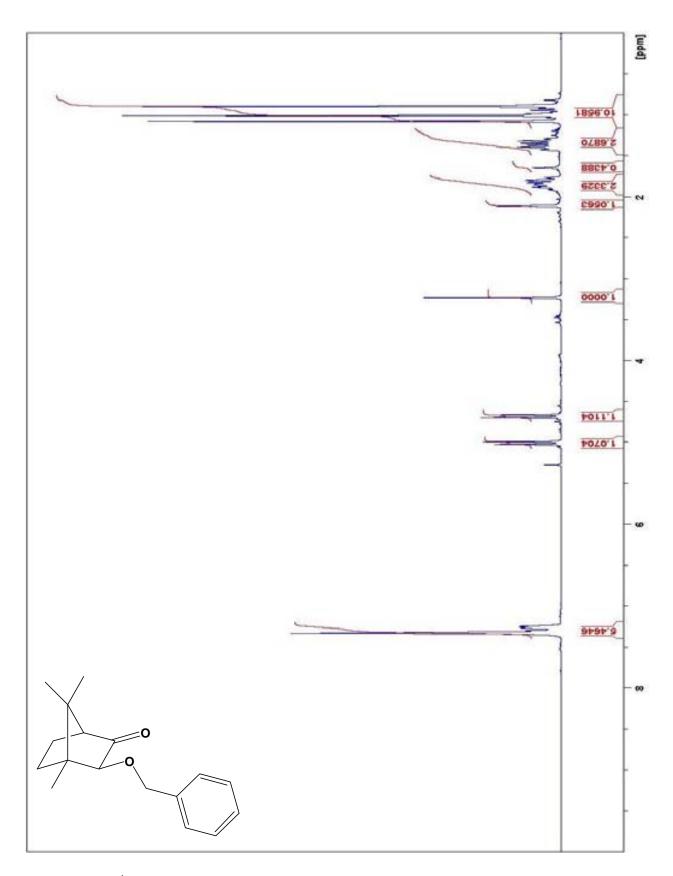
¹³C APT NMR Spectrum (400 MHz) of Compound **12** obtained from Method A



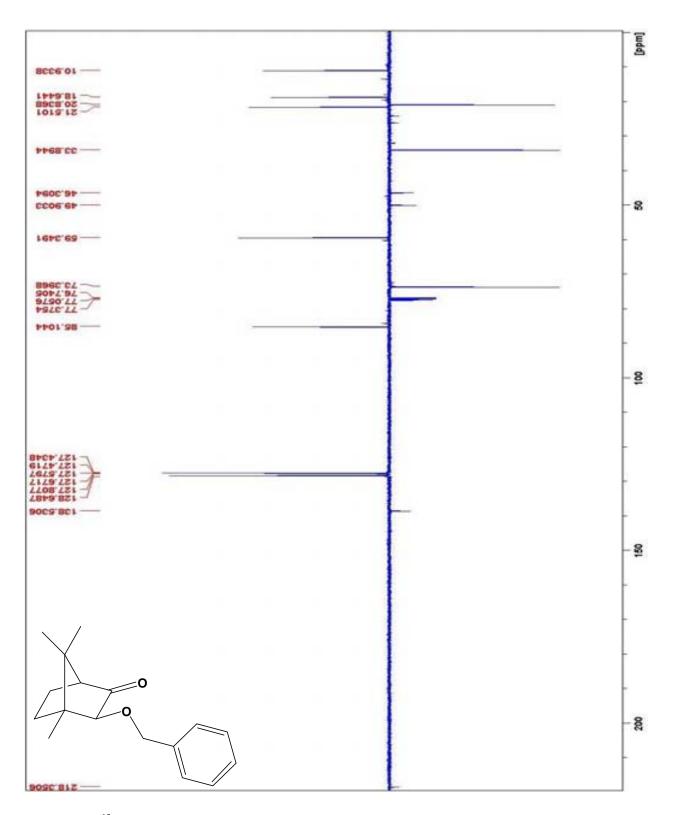
¹H NMR Spectrum (400 MHz) of Compound 15



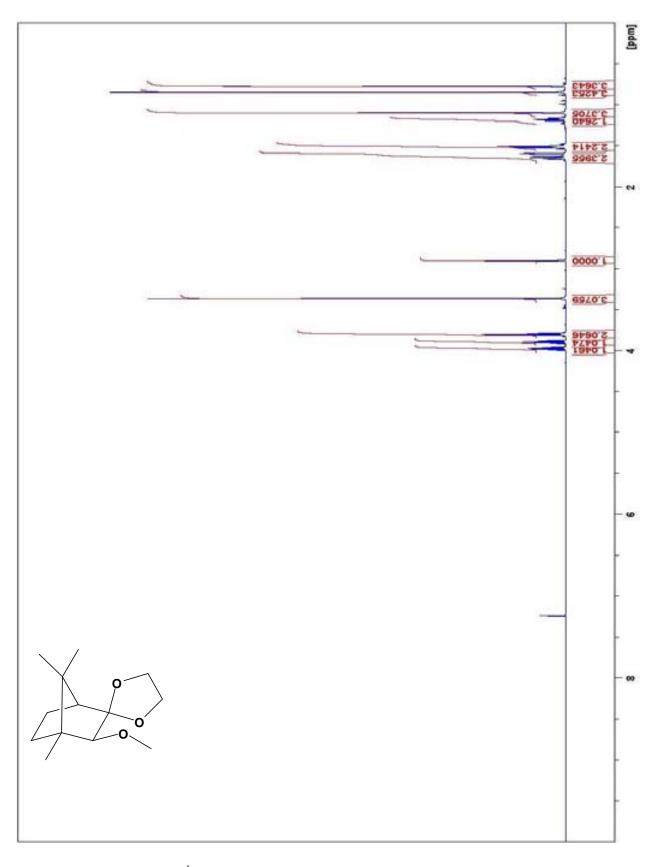
¹³C APT NMR Spectrum (400 MHz) of Compound **15**



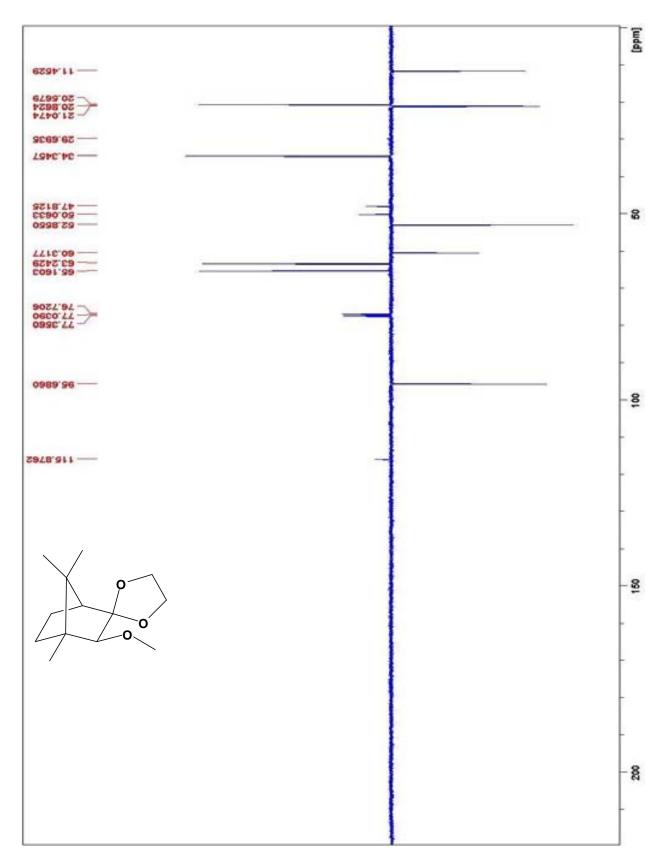
¹H NMR Spectrum (400 MHz) of Compound **12** obtained from Method B



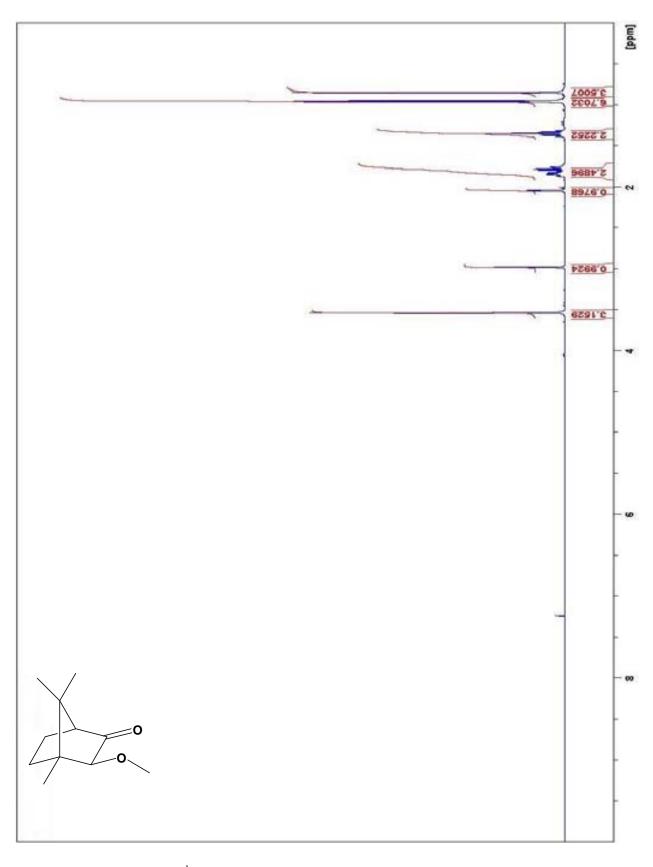
 ^{13}C APT NMR Spectrum (400 MHz) of Compound 12 obtained from Method B



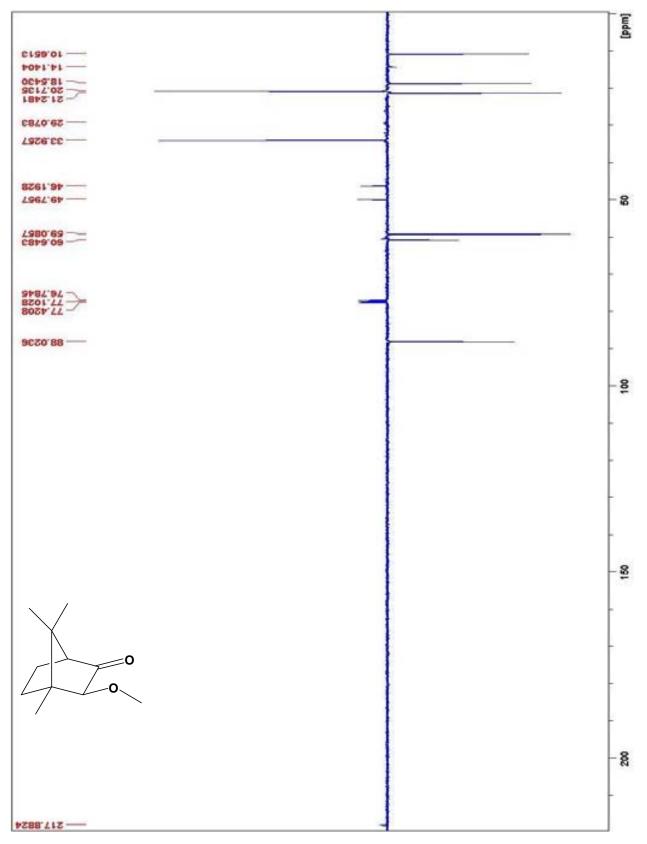
¹H NMR Spectrum (400 MHz) of Compound 16



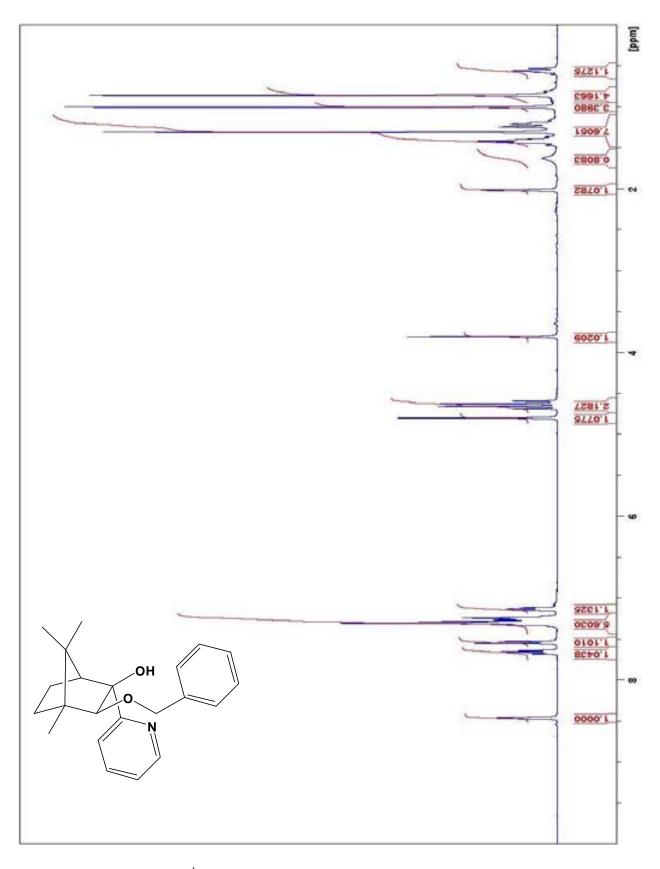
¹³C APT NMR Spectrum (400 MHz) of Compound 16



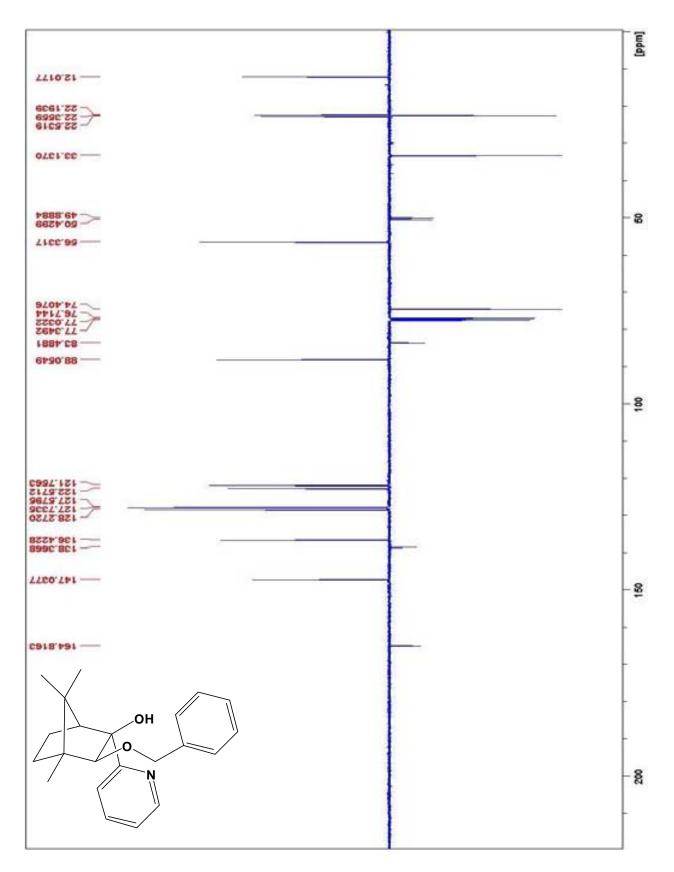
¹H NMR Spectrum (400 MHz) of Compound **17**



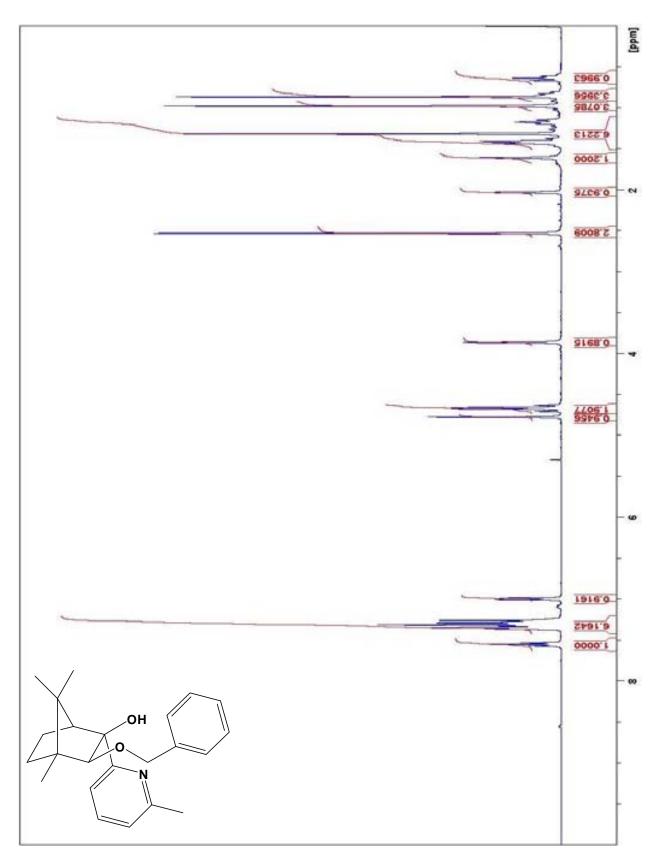
¹³C APT NMR Spectrum (400 MHz) of Compound 17



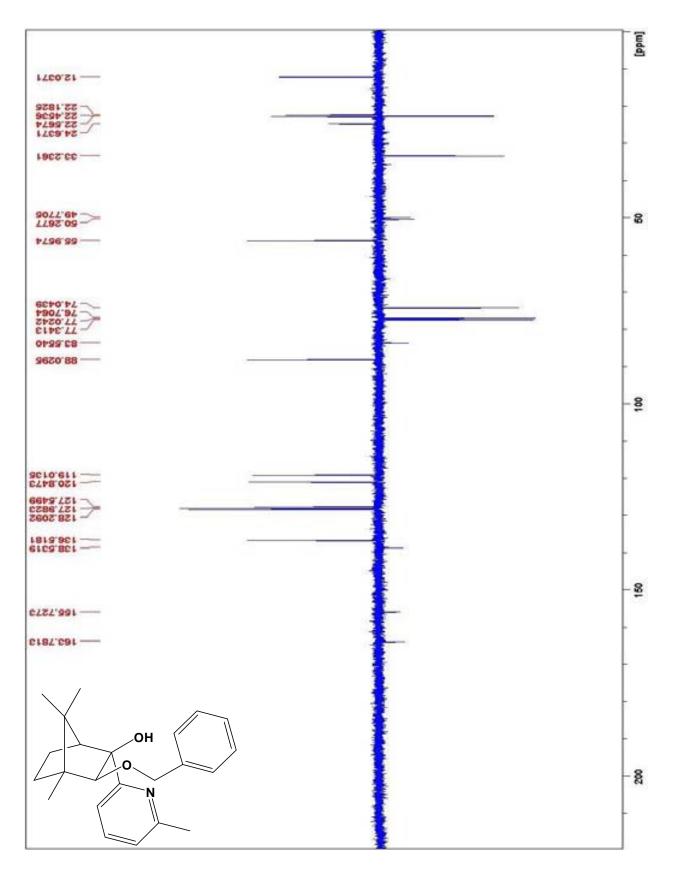
¹H NMR Spectrum (400 MHz) of Compound $\mathbf{3}$



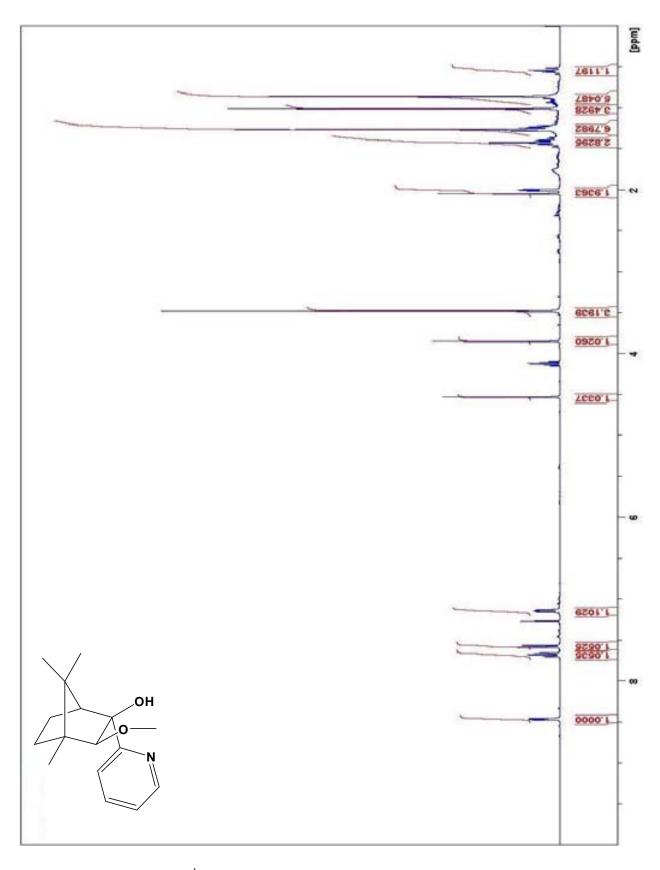
 ^{13}C APT NMR Spectrum (400 MHz) of Compound **3**



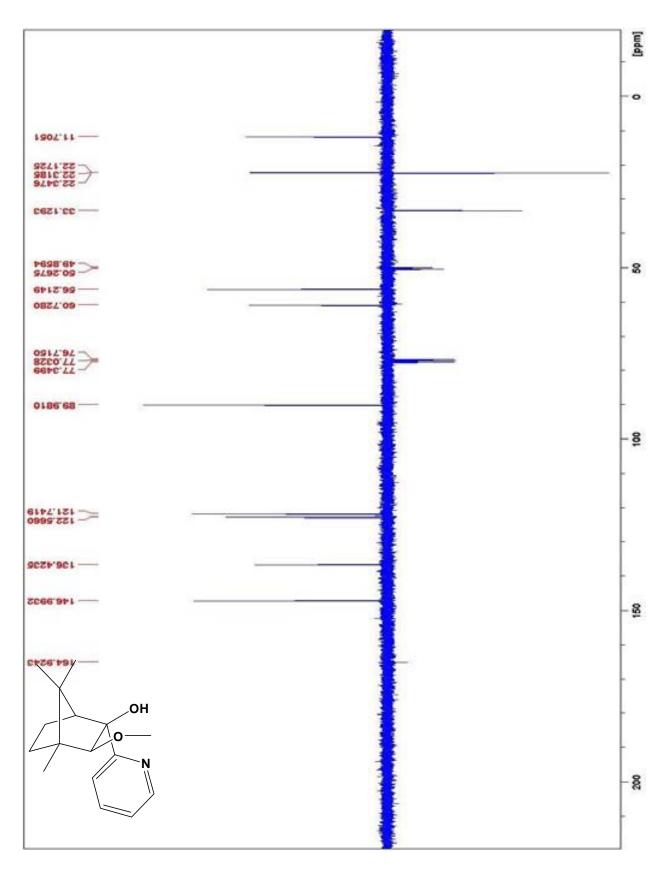
¹H NMR Spectrum (400 MHz) of Compound 4



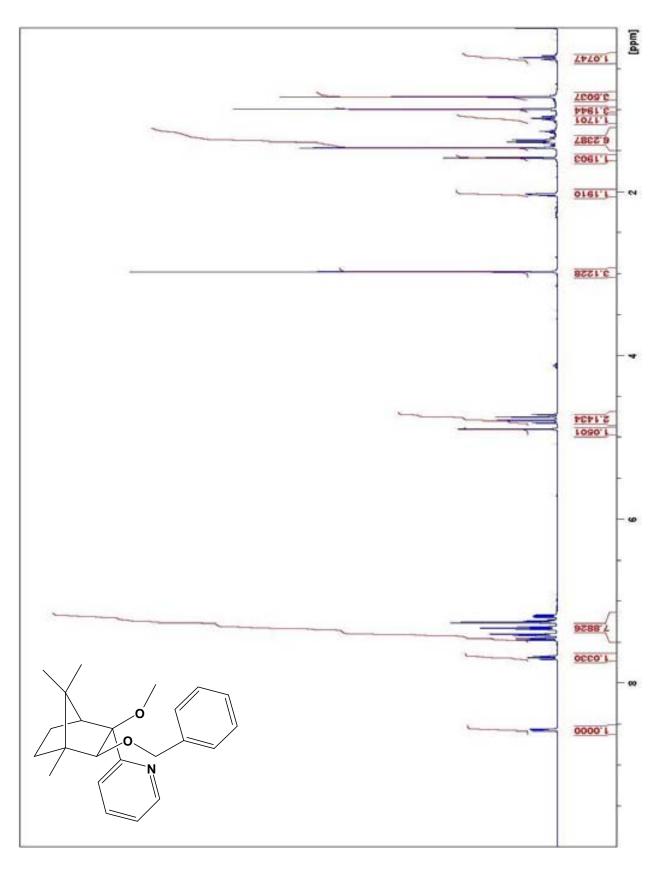
 ^{13}C APT NMR Spectrum (400 MHz) of Compound 4



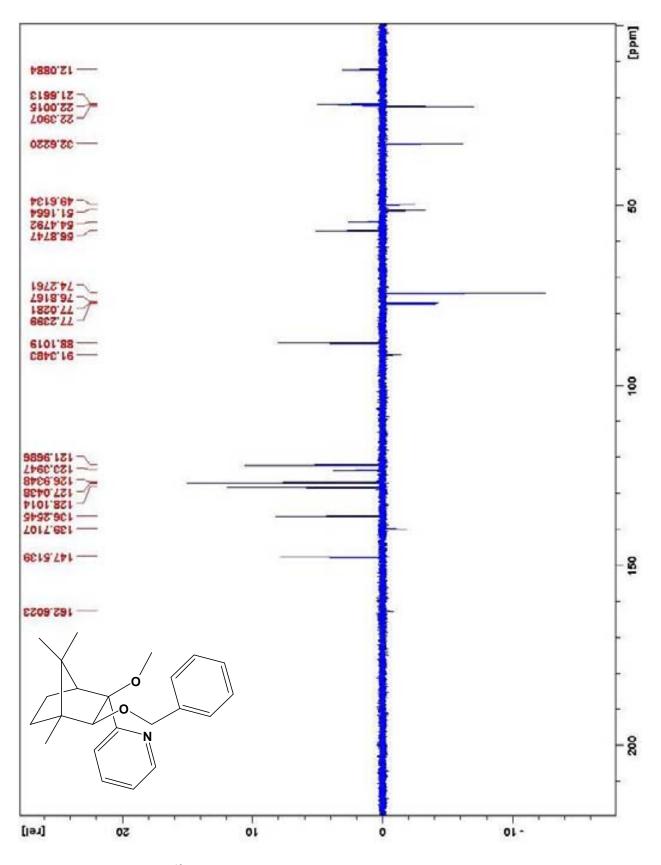
¹H NMR Spectrum (400 MHz) of Compound **5**



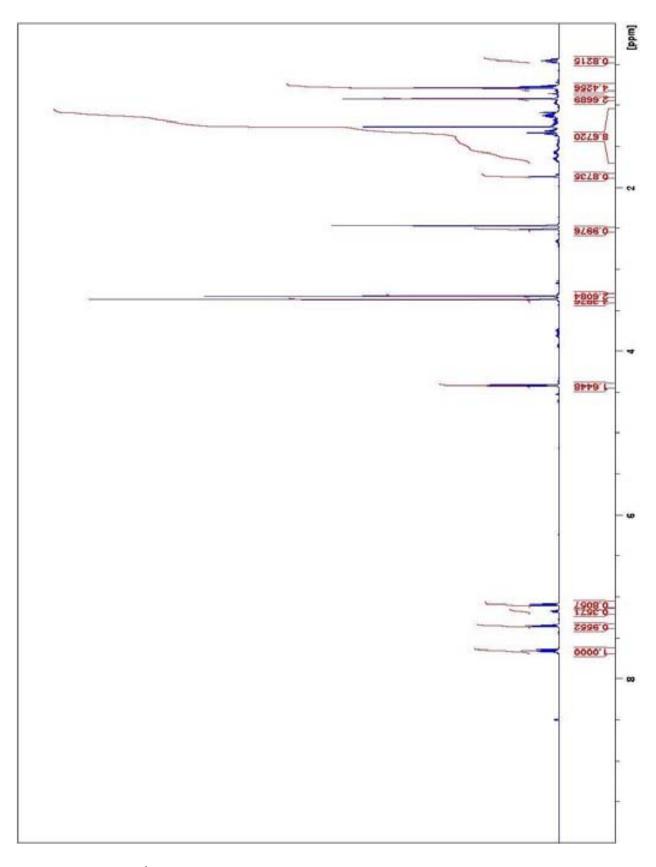
 ^{13}C APT NMR Spectrum (400 MHz) of Compound 5



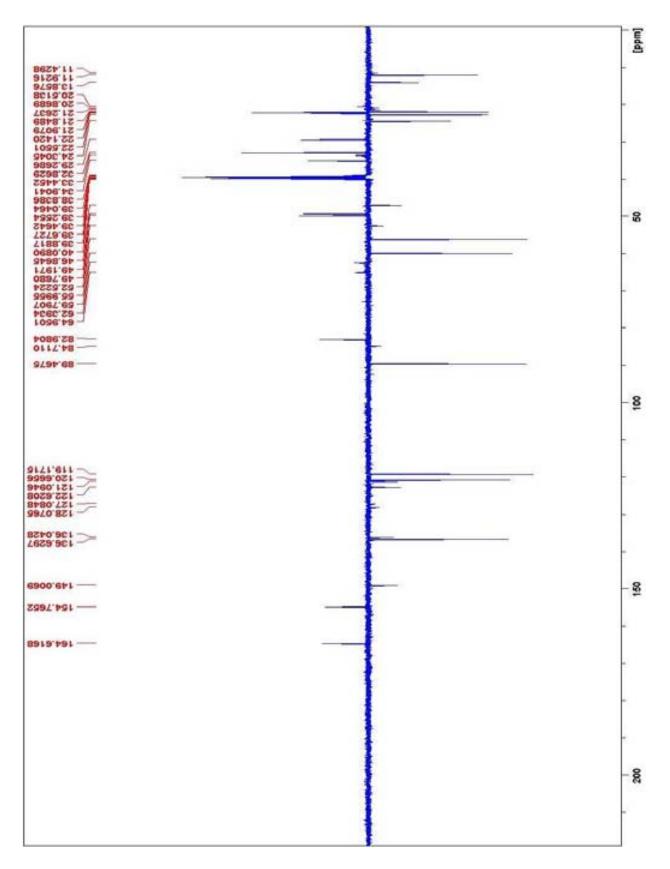
¹H NMR Spectrum (400 MHz) of Compound $\mathbf{6}$



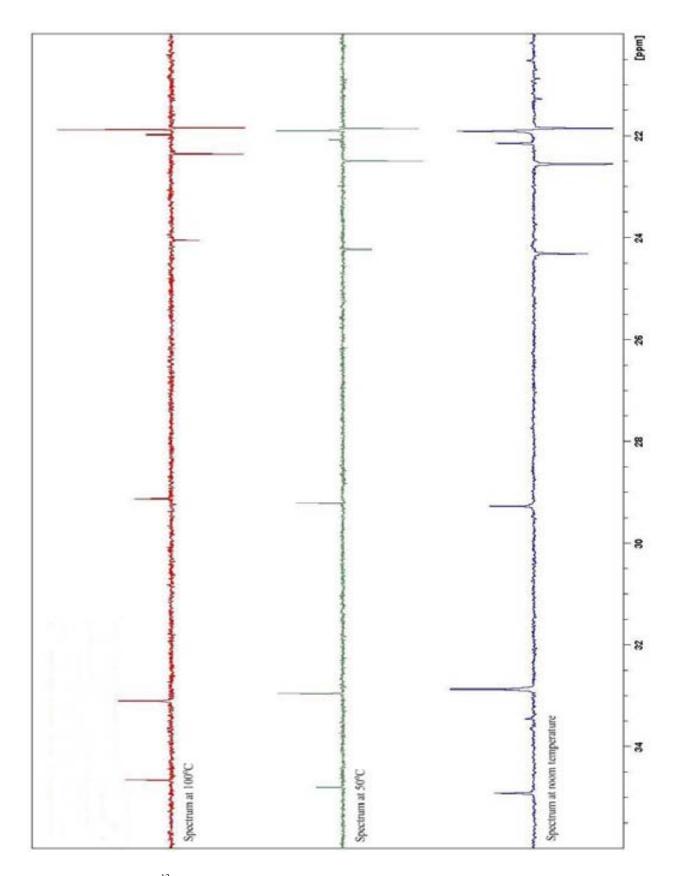
 ^{13}C APT NMR Spectrum (400 MHz) of Compound **6**



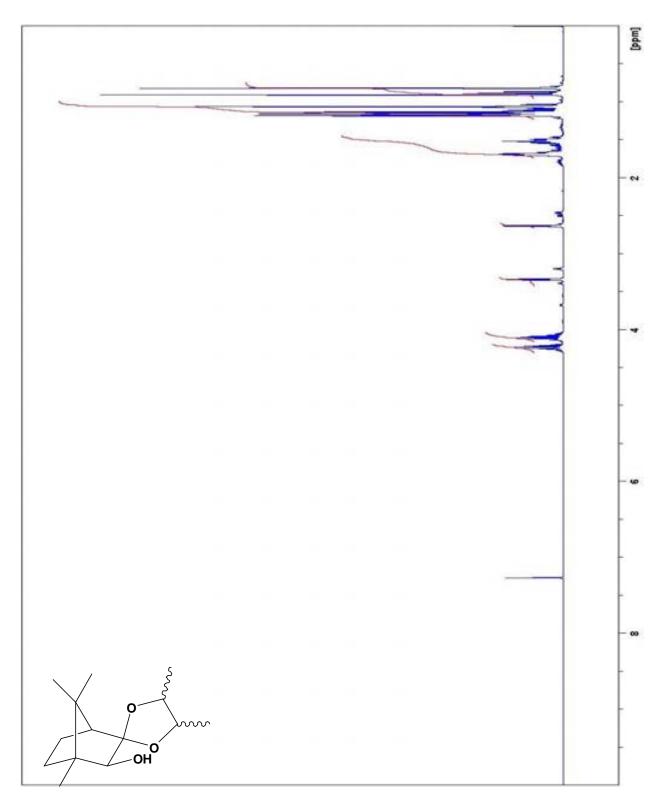
¹H NMR Spectrum (600 MHz) of Compound **18** in DMSO-D6



¹³C APT NMR Spectrum (400 MHz) of Compound **18** in DMSO-D6

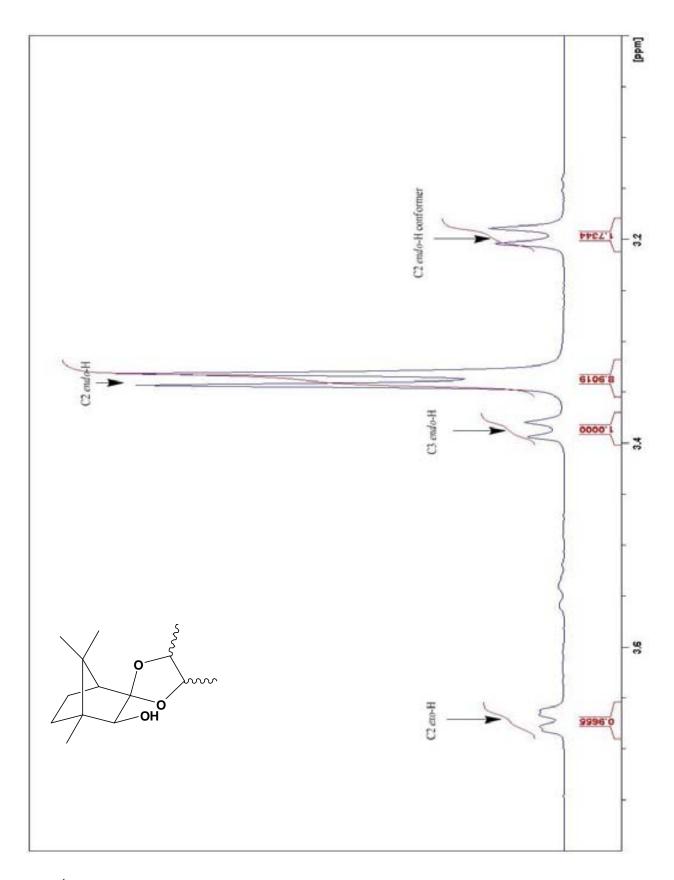


High temperature ¹³C APT NMR Spectrum (400 MHz) of Compound **18** in DMSO-D6 expanded

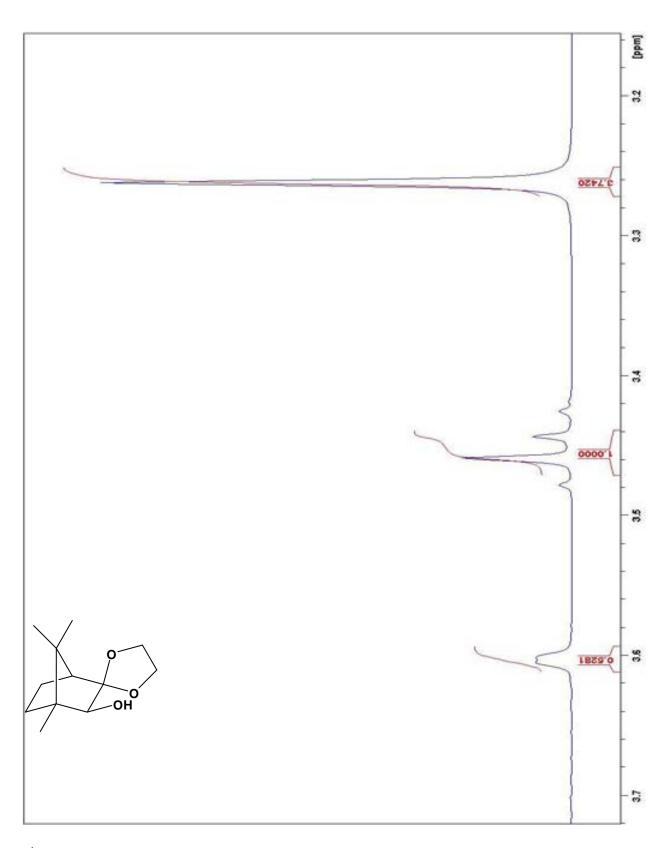


SECTION 2: DIASTEREOMERIC RATIO DETERMINATIONS

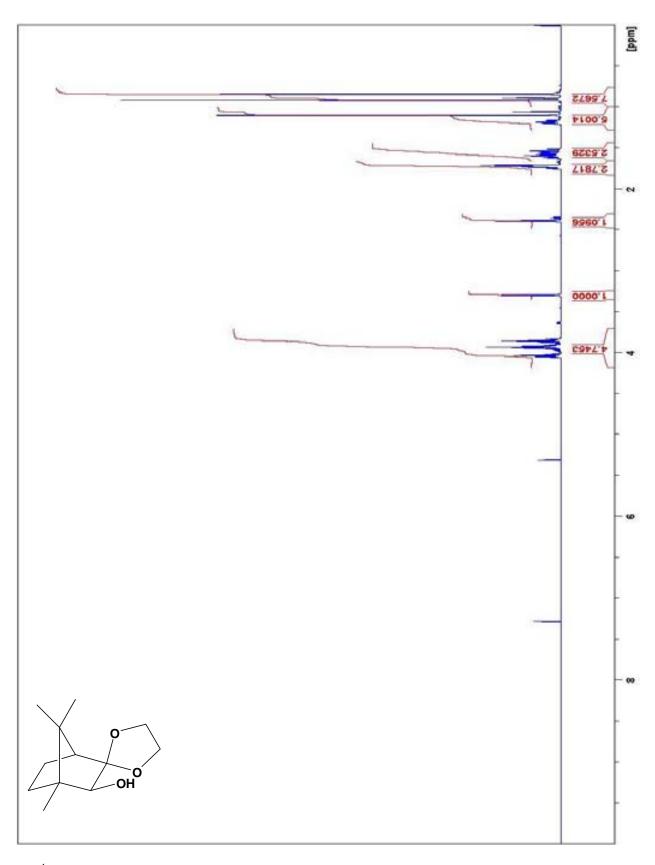
¹H NMR Spectrum (400 MHz) of Compound 10



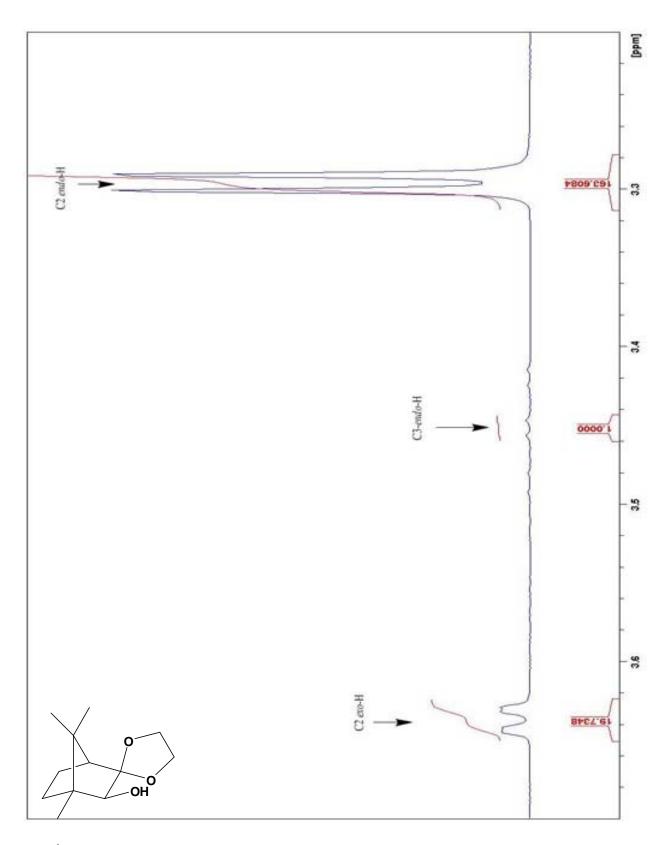
¹H NMR Spectrum (400 MHz) of crude Compound **10** expanded to show diastereomeric ratio



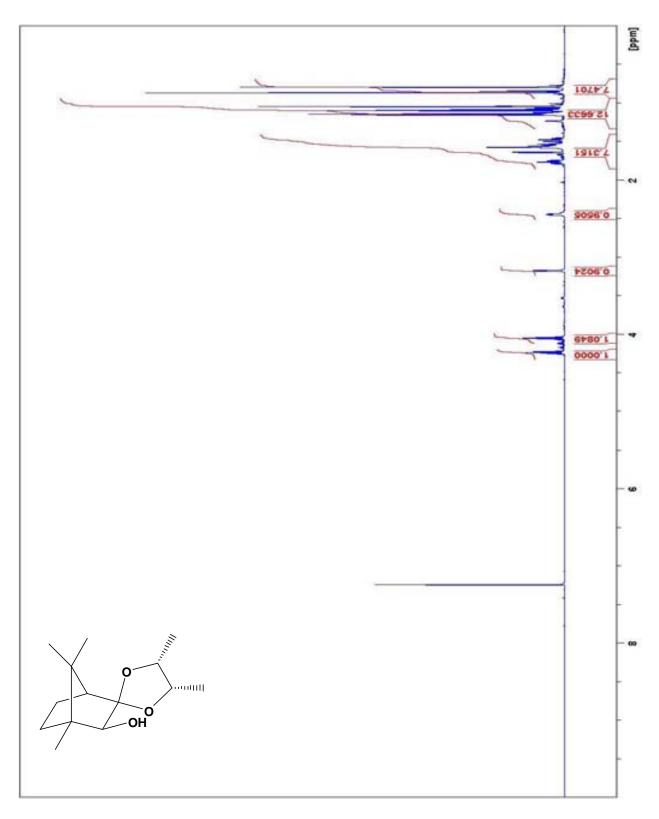
¹H NMR Spectrum (400 MHz) of Compound **14** before recrystallisation of preceding compound **13**(1:3



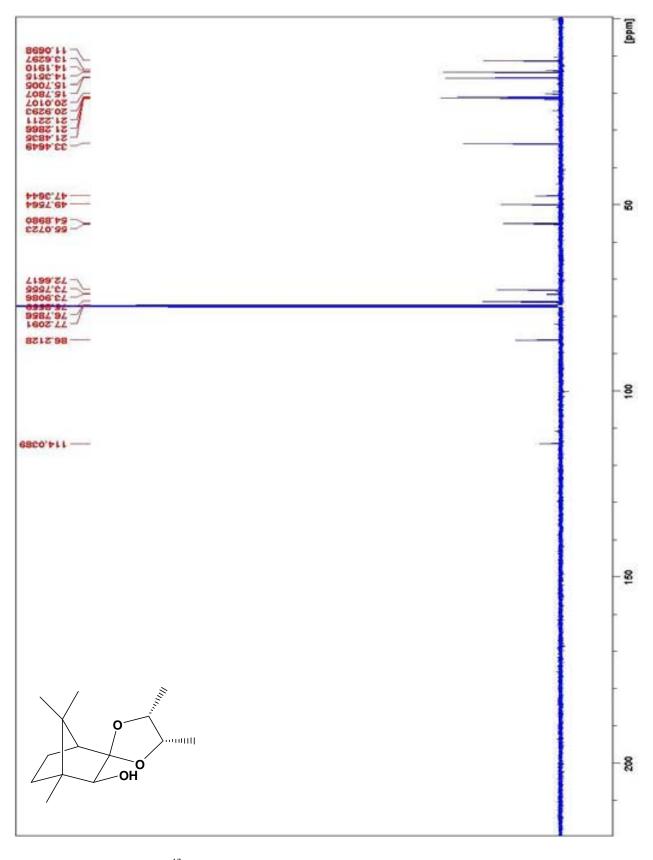
¹H NMR Spectrum (600 MHz) of Compound 14 after recrystallisation of preceding compound 13



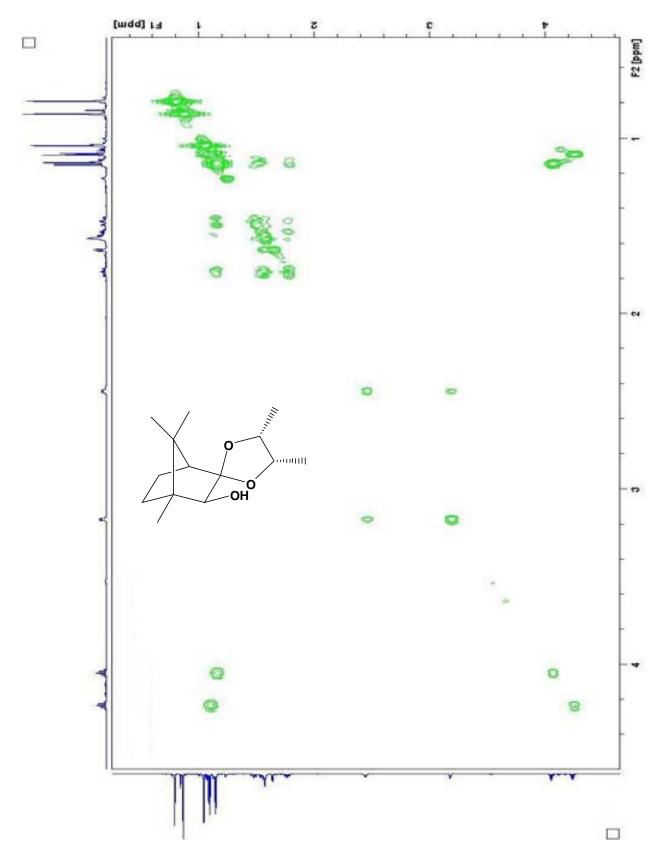
¹H NMR Spectrum (600 MHz) of Compound **14** (expanded) showing diastereomeric ratio after recrystallisation of preceding compound **13**



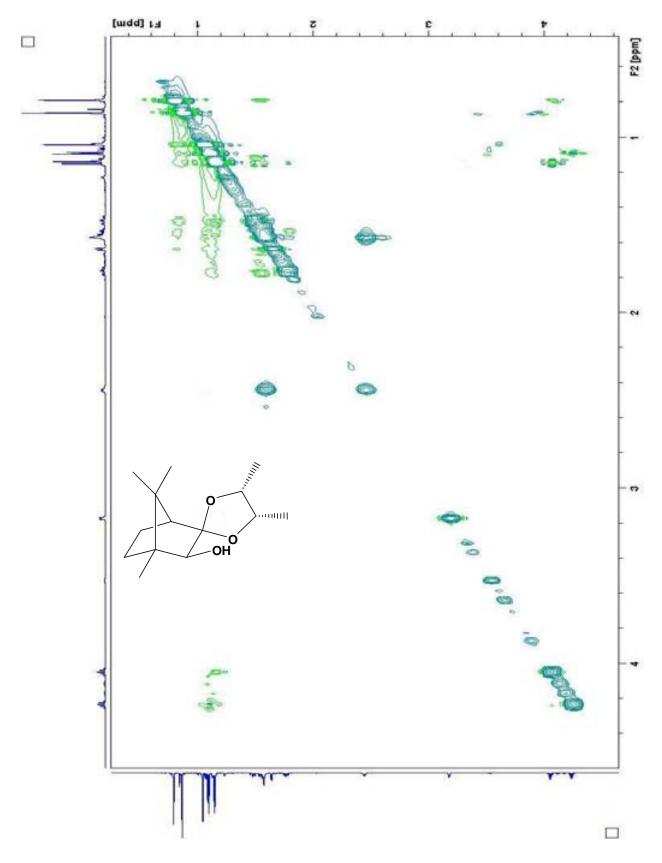
¹H NMR Spectrum (600 MHz) of Compound **10a-3**



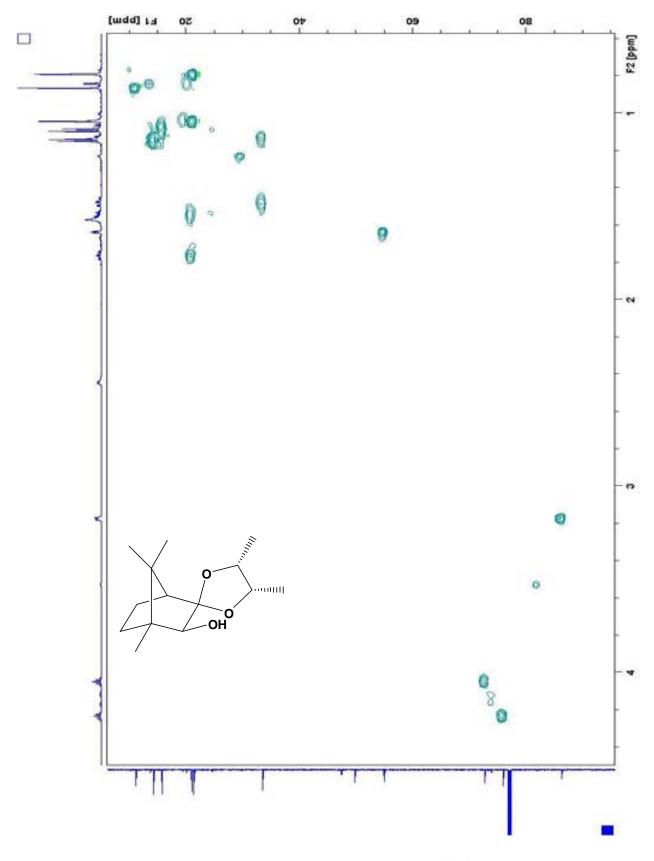
¹³C NMR Spectrum (600 MHz) of Compound 10a-3



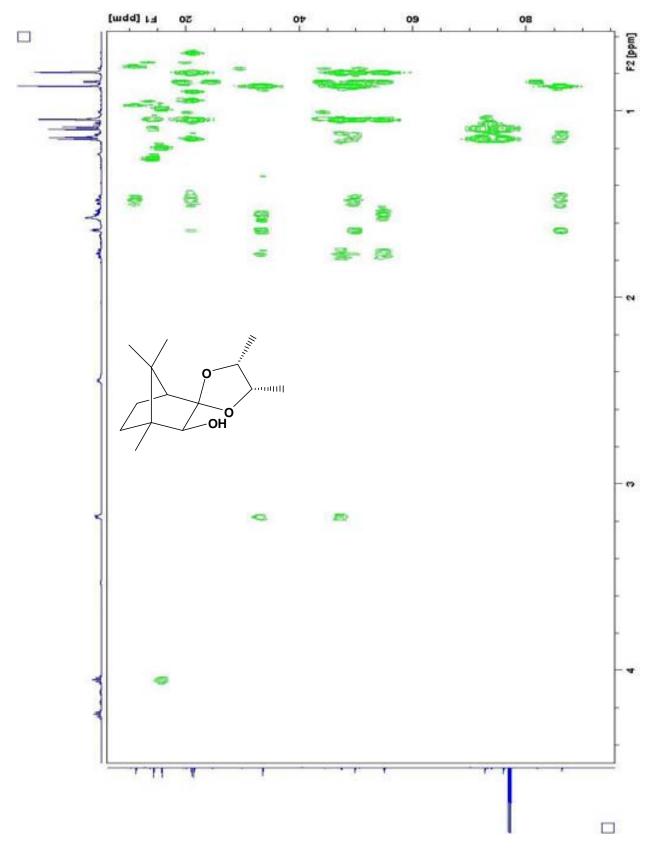
COSY Spectrum (600MHz) of Compound 10a-3



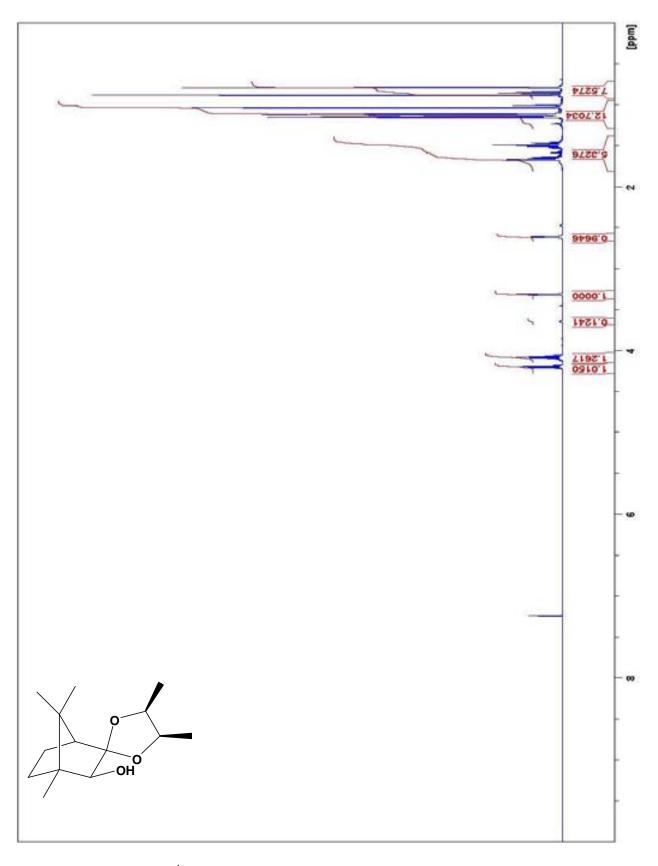
NOESY Spectrum (600MHz) of Compound 10a-3



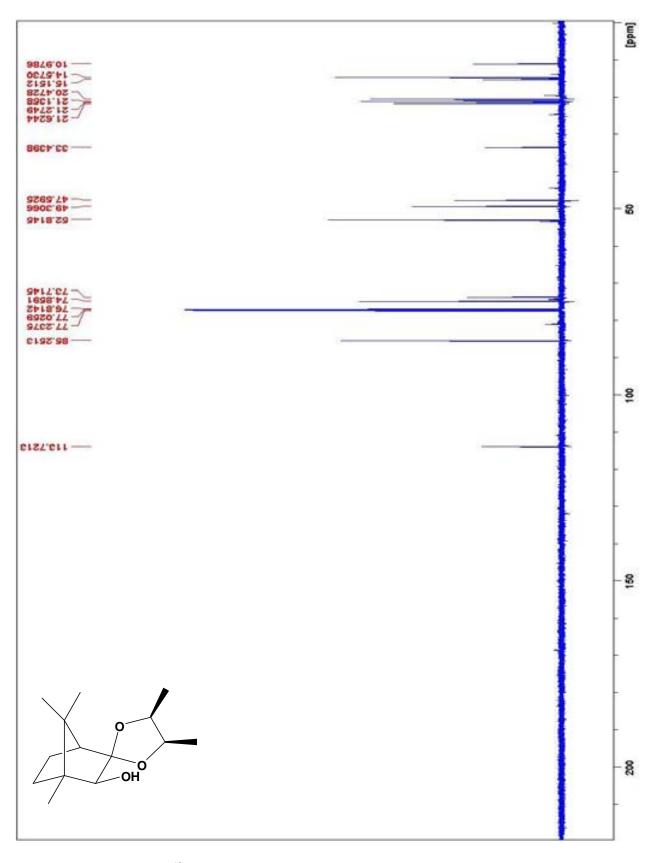
HSQC Spectrum (600MHz) of Compound 10a-3



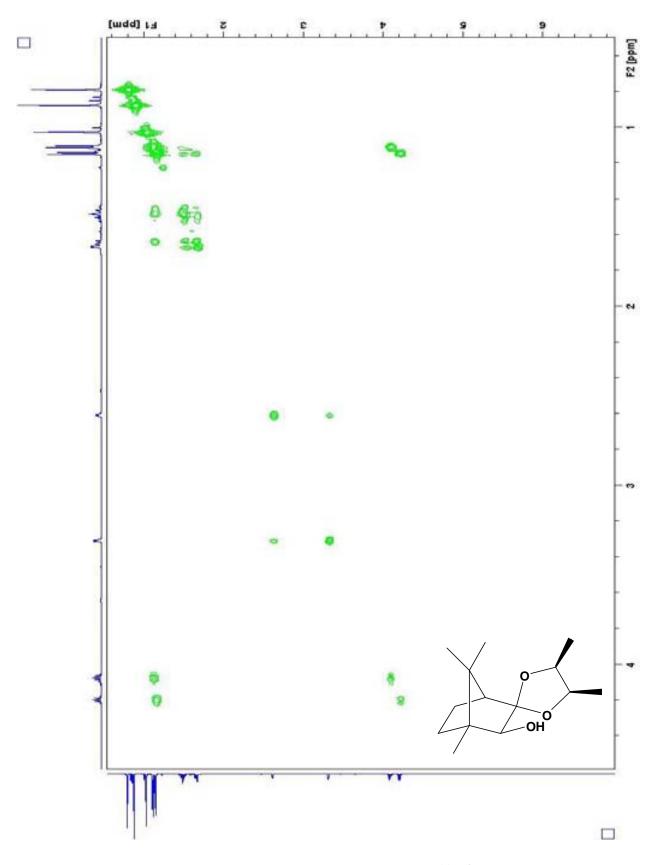
HMBC Spectrum (600MHz) of Compound 10a-3



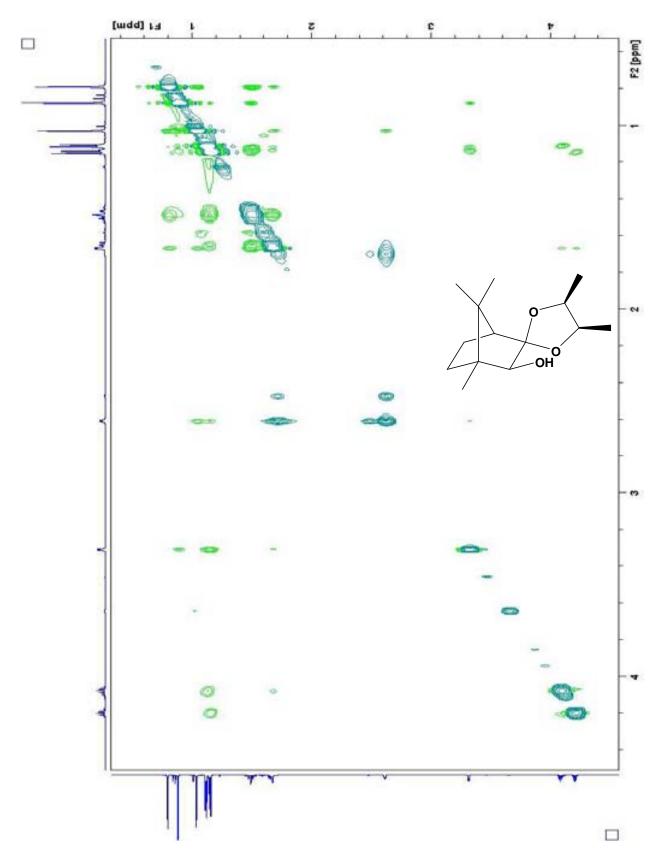
¹H NMR Spectrum (600 MHz) of Compound 10a-4



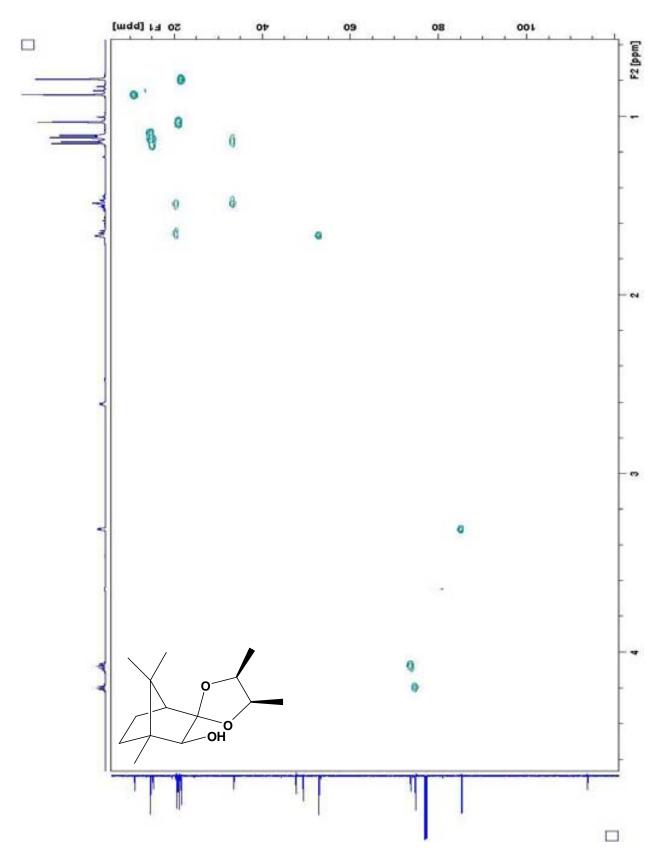
¹³C NMR Spectrum (600 MHz) of Compound 10a-4



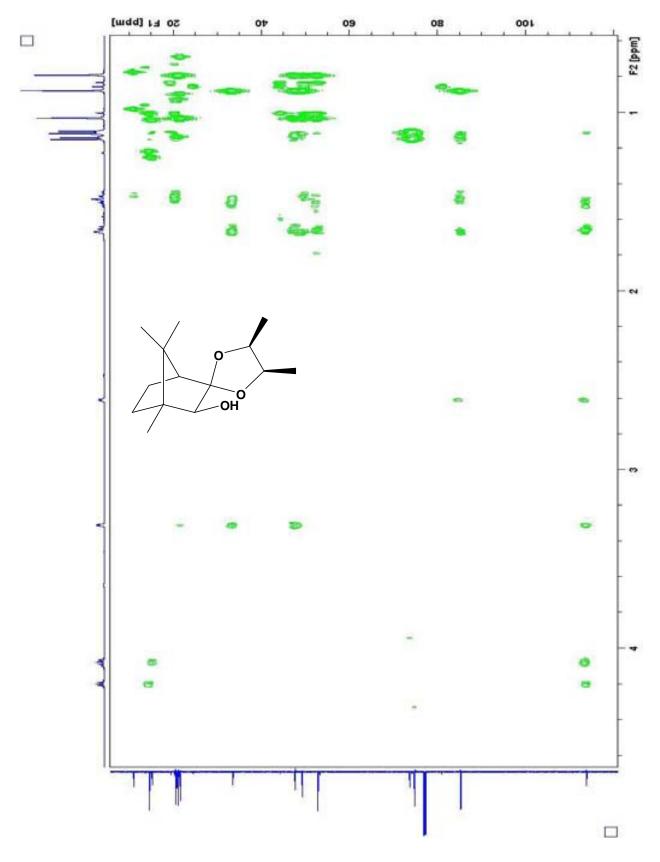
COSY Spectrum (600MHz) of Compound 10a-4



NOESY Spectrum (600MHz) of Compound 10a-4



HSQC Spectrum (600MHz) of Compound 10a-4



HMBC Spectrum (600MHz) of Compound 10a-4