

Supplementary Material

A new enantioselective synthesis of antiobesity drug lorcaserin

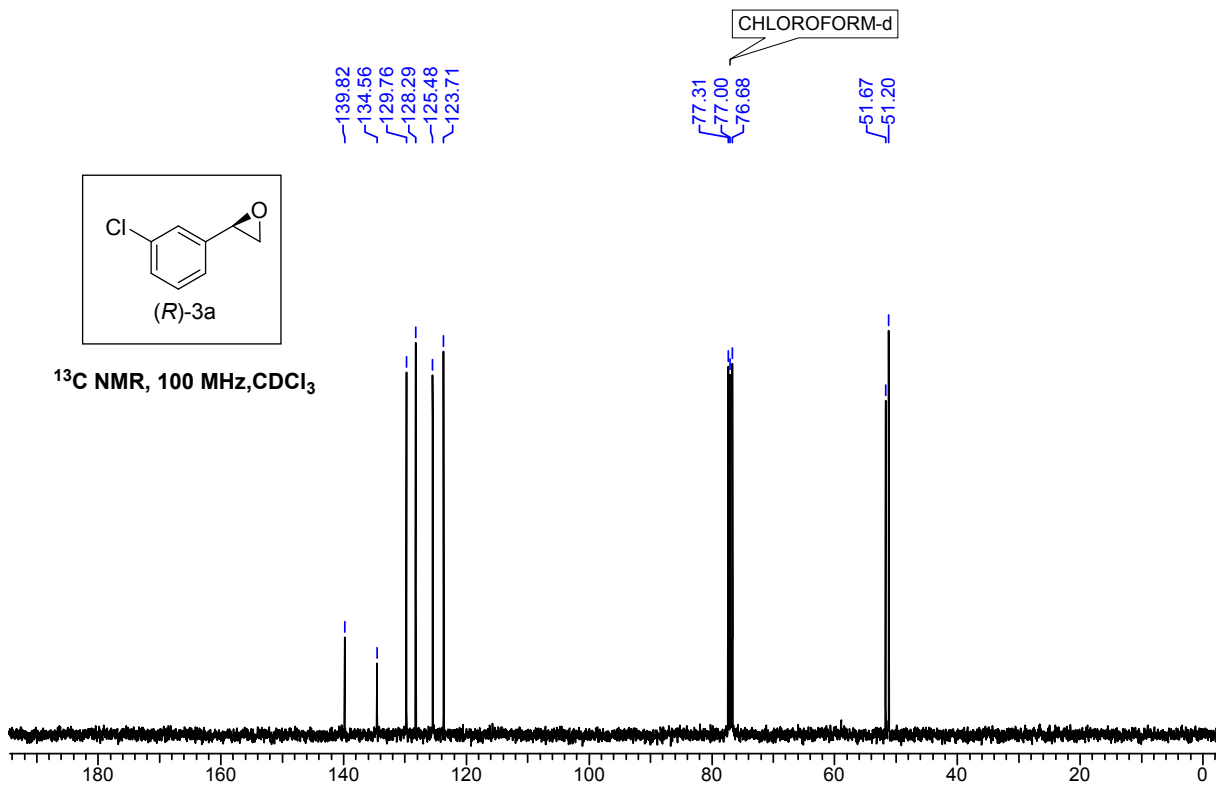
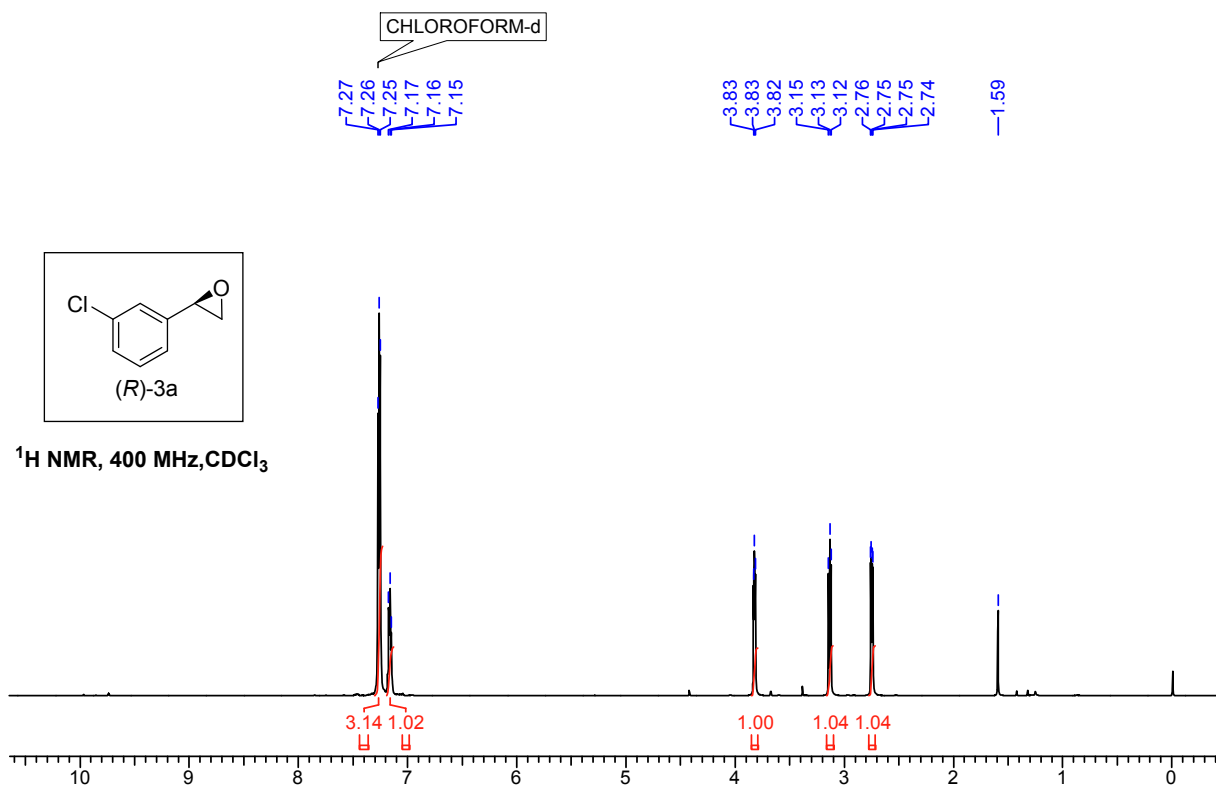
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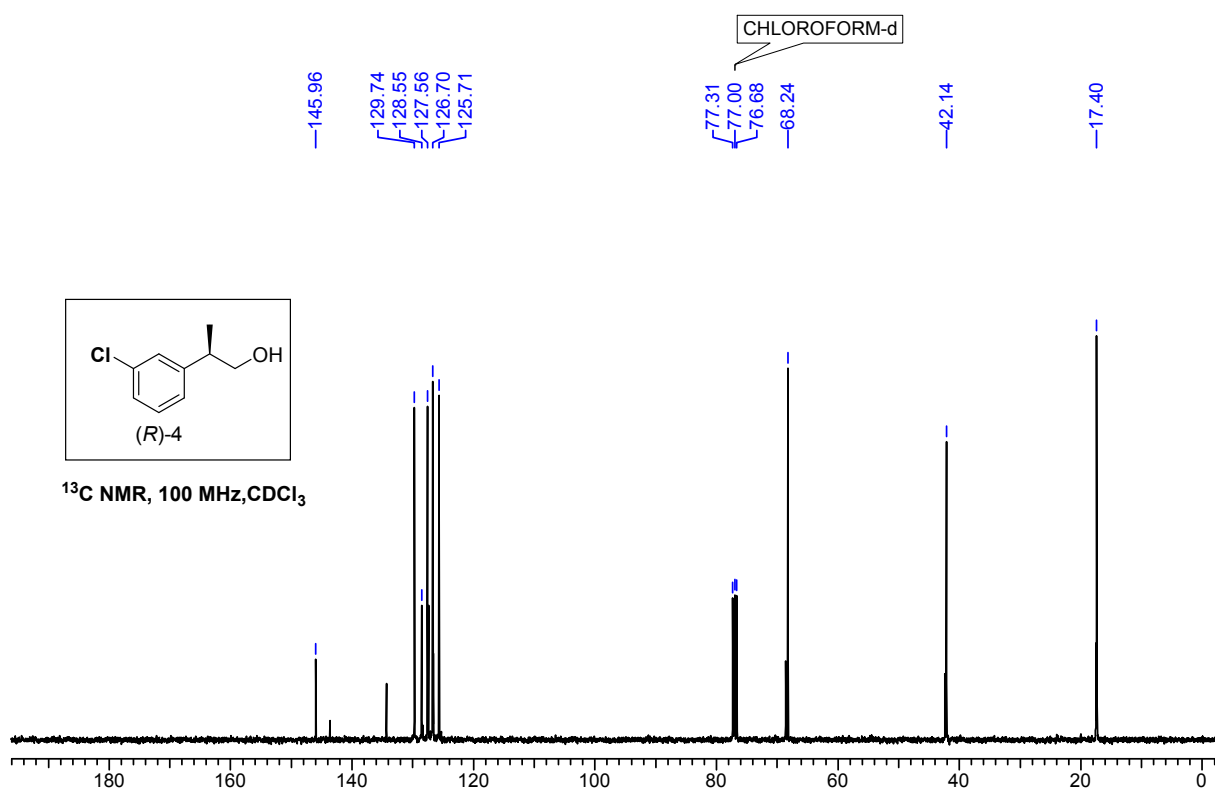
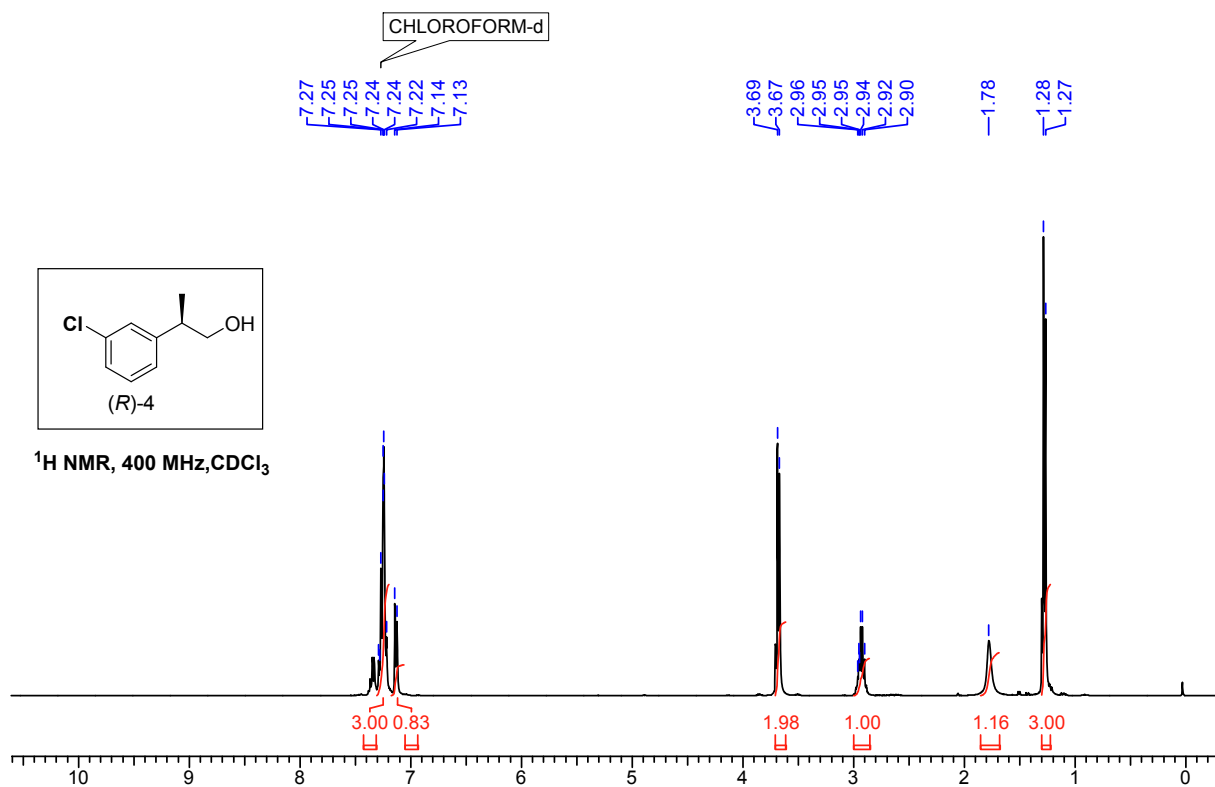
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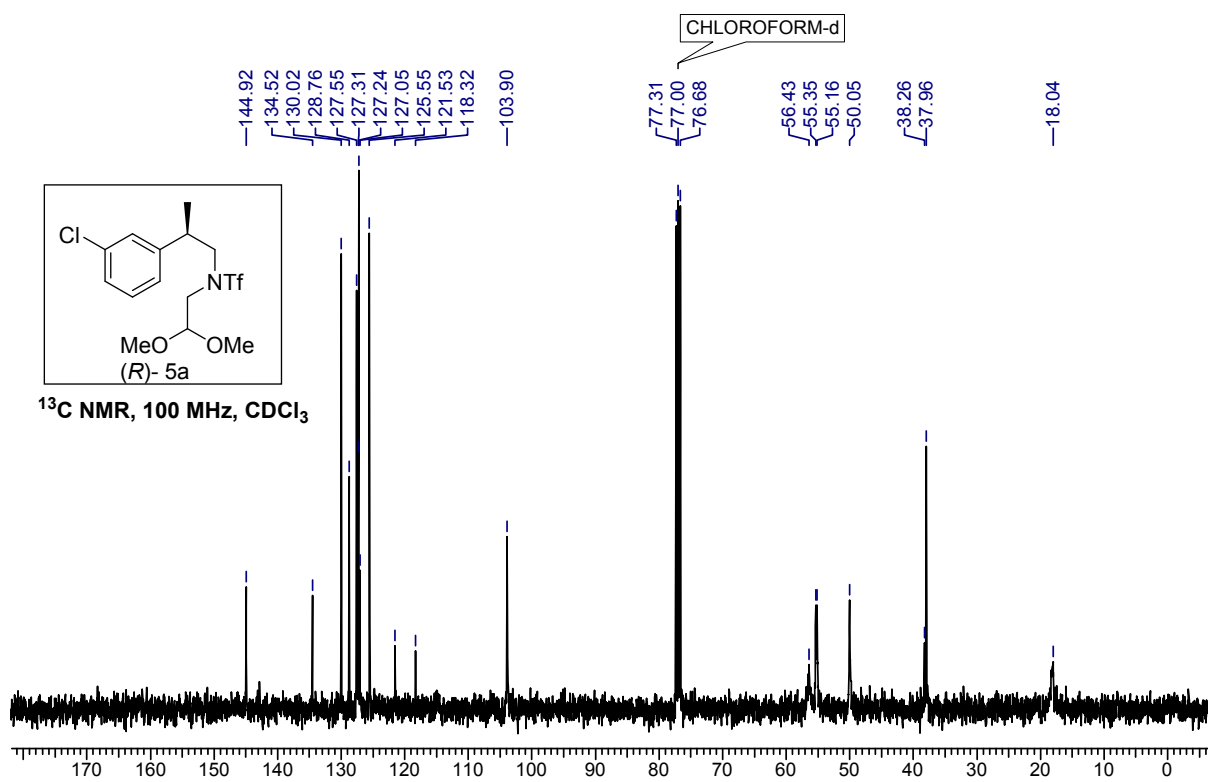
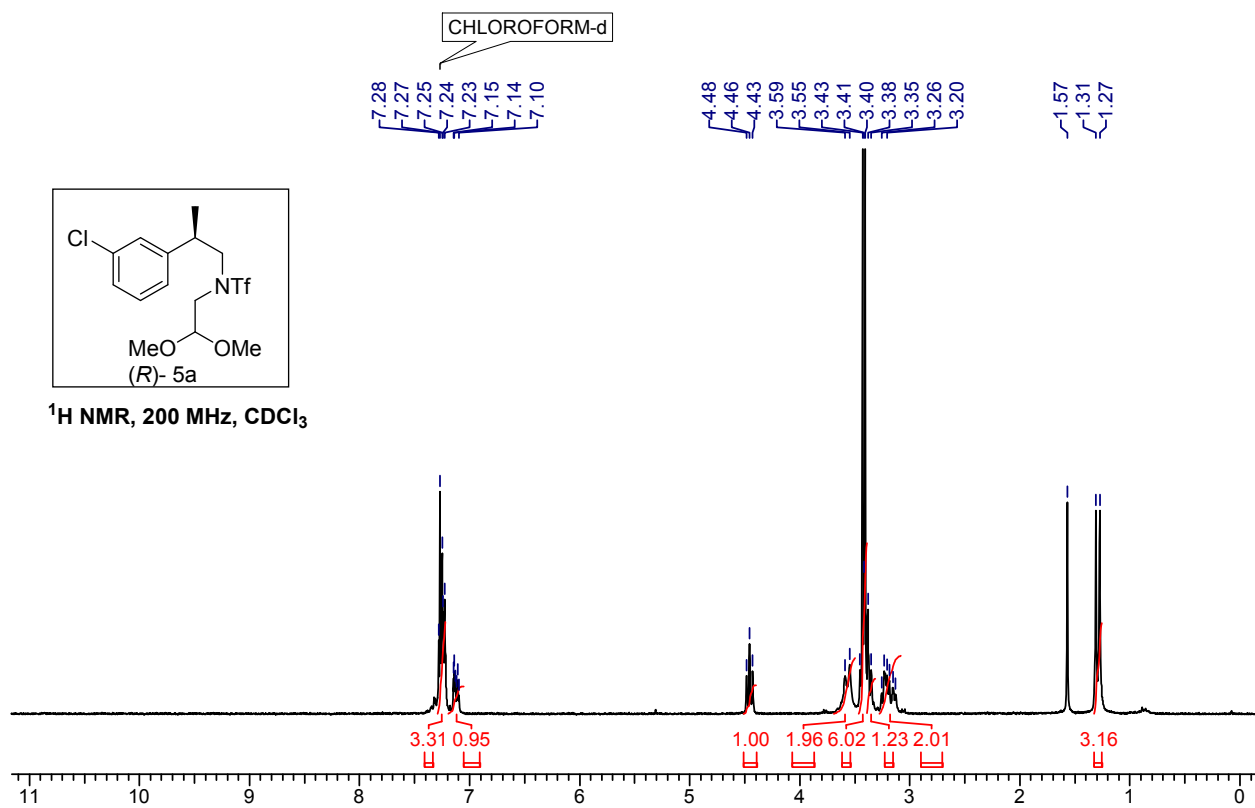
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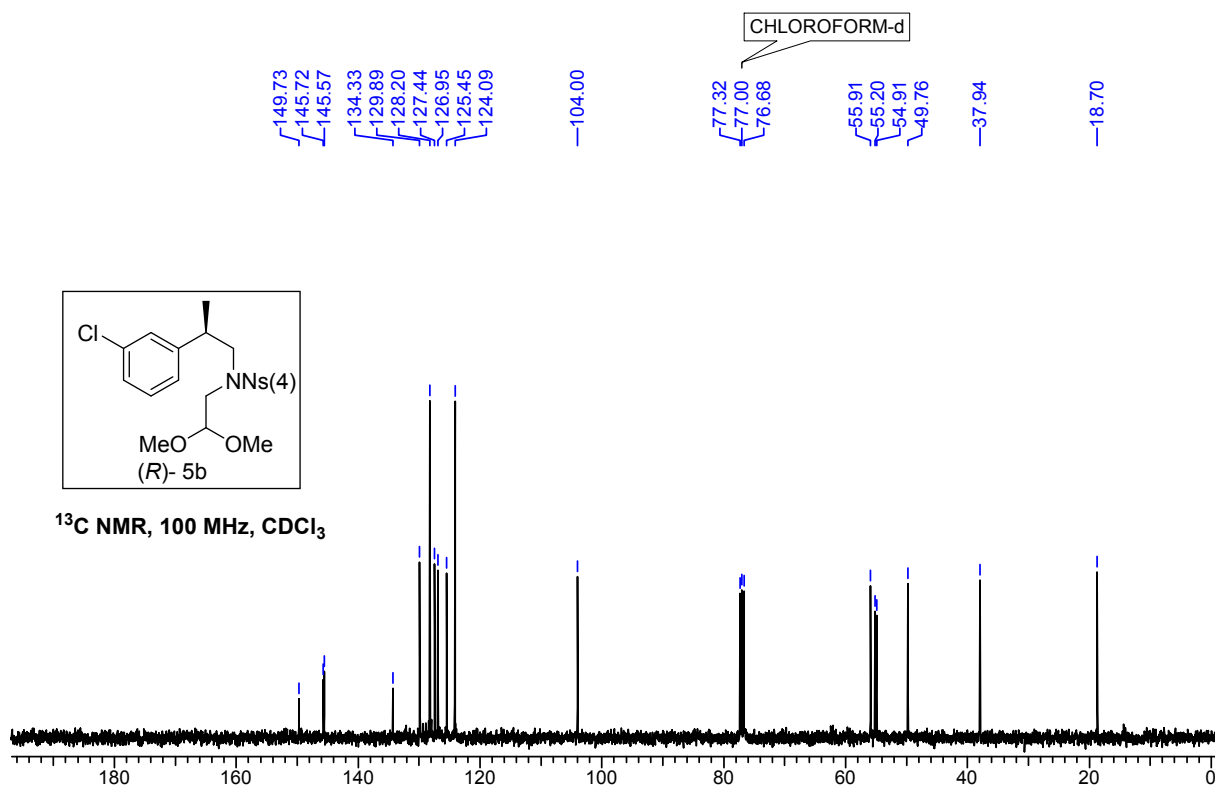
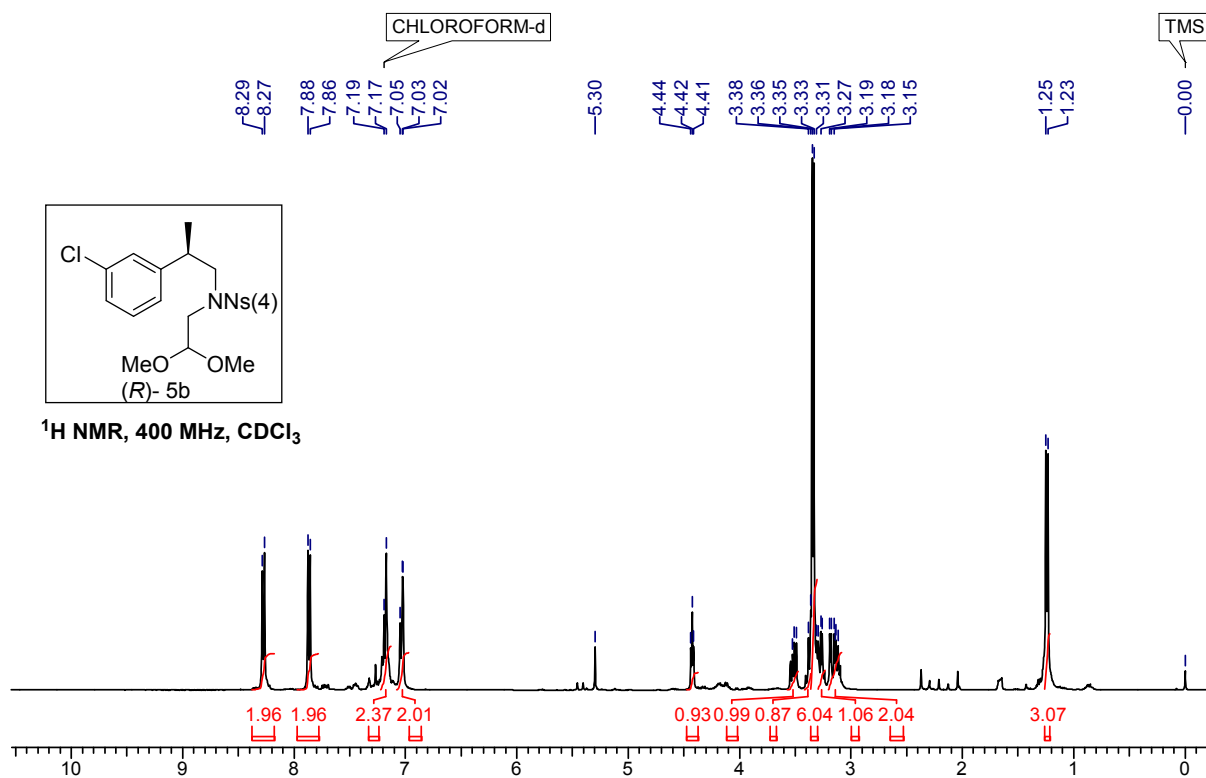
¹H NMR & ¹³C NMR of Compound (R)-3a in CDCl₃



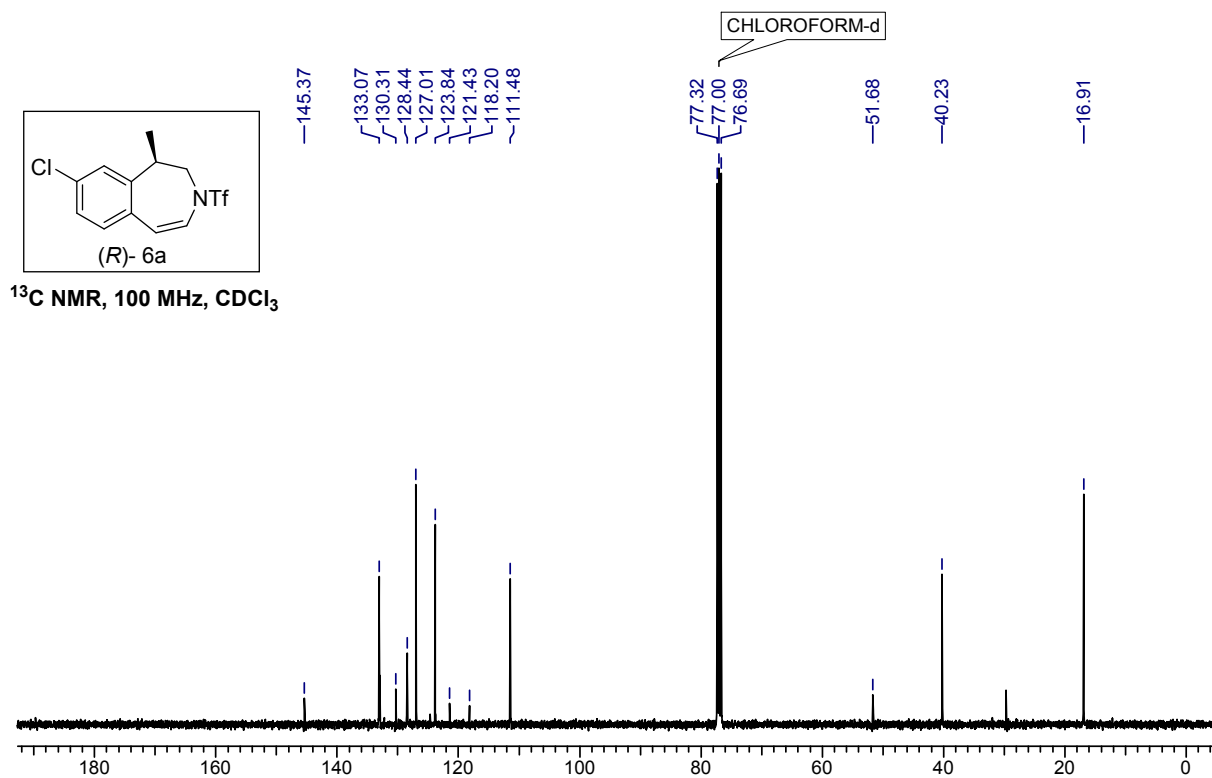
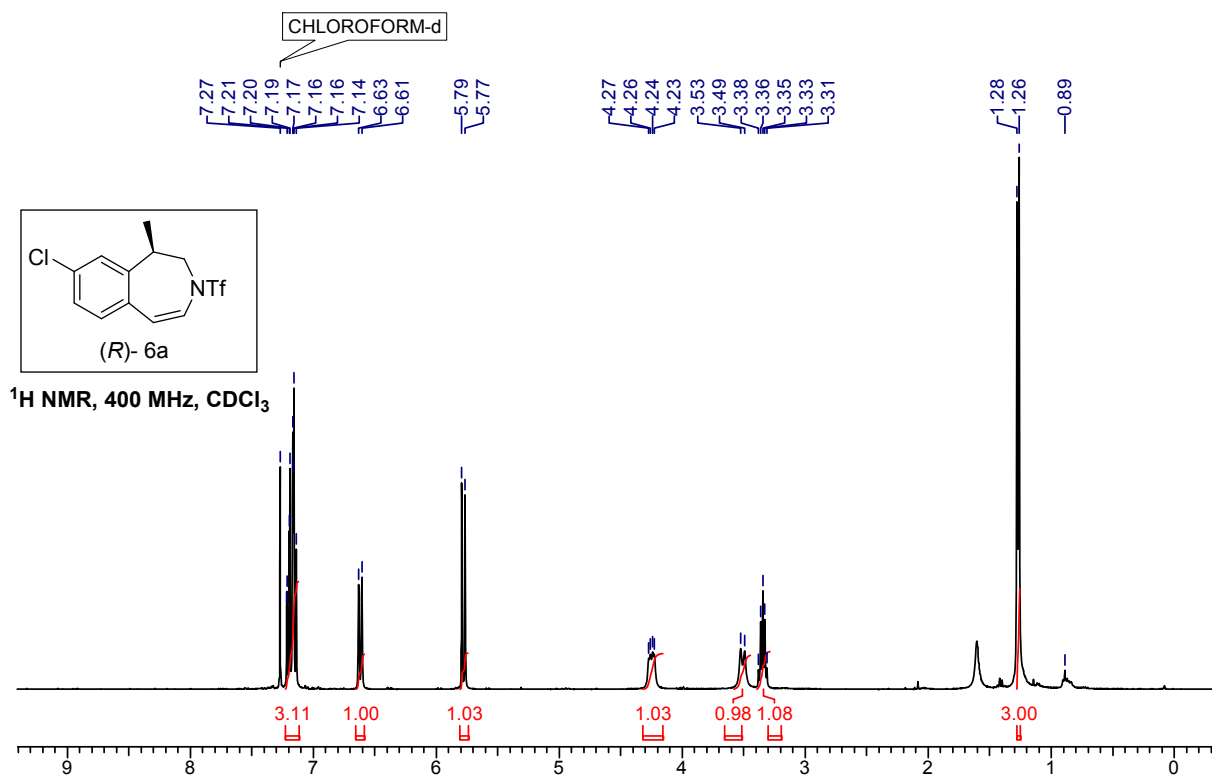
¹H NMR & ¹³C NMR of Compound (R)-4 in CDCl₃



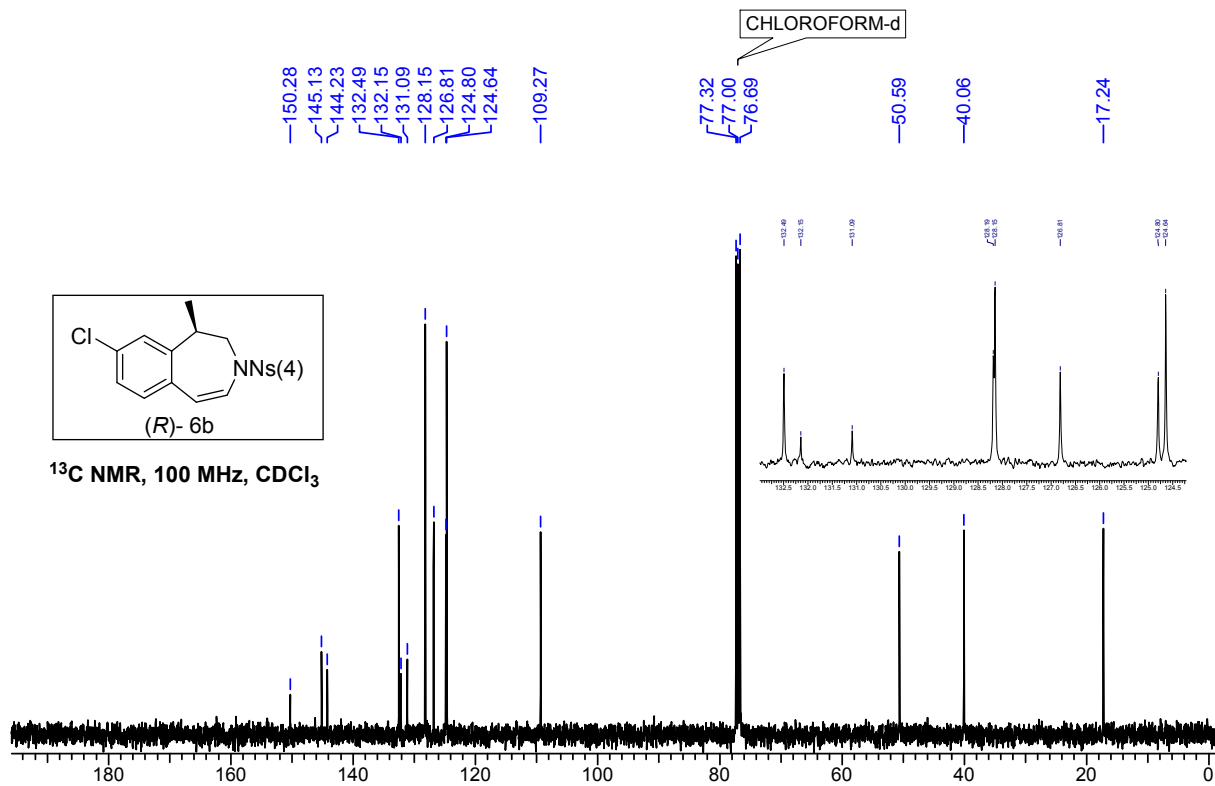
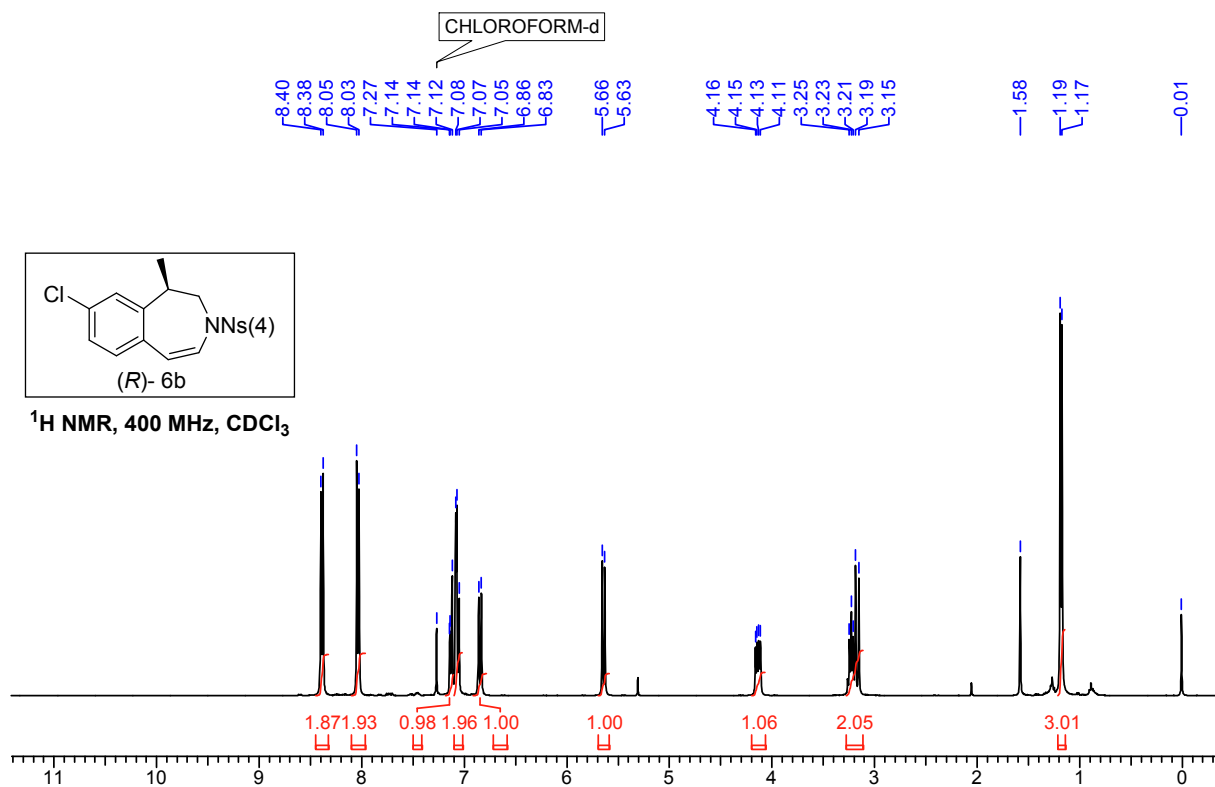
¹H NMR & ¹³C NMR of Compound (R)-5a in CDCl₃



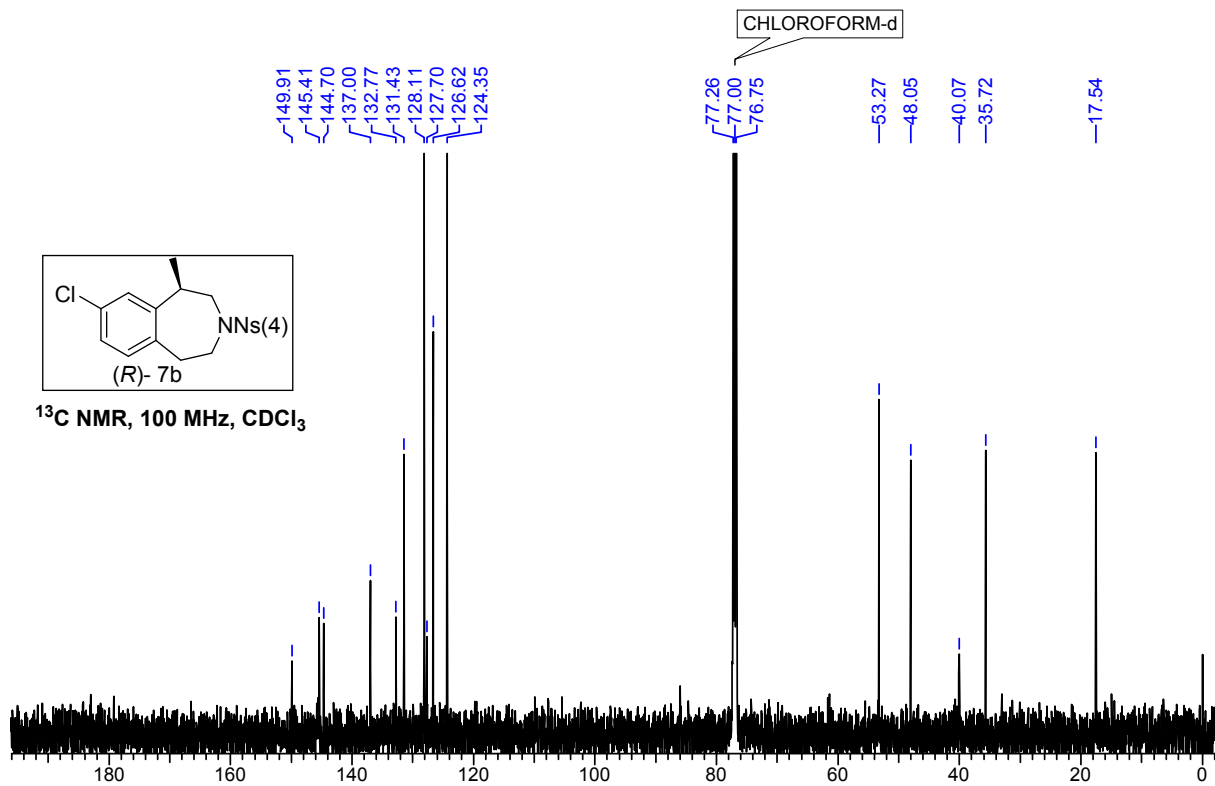
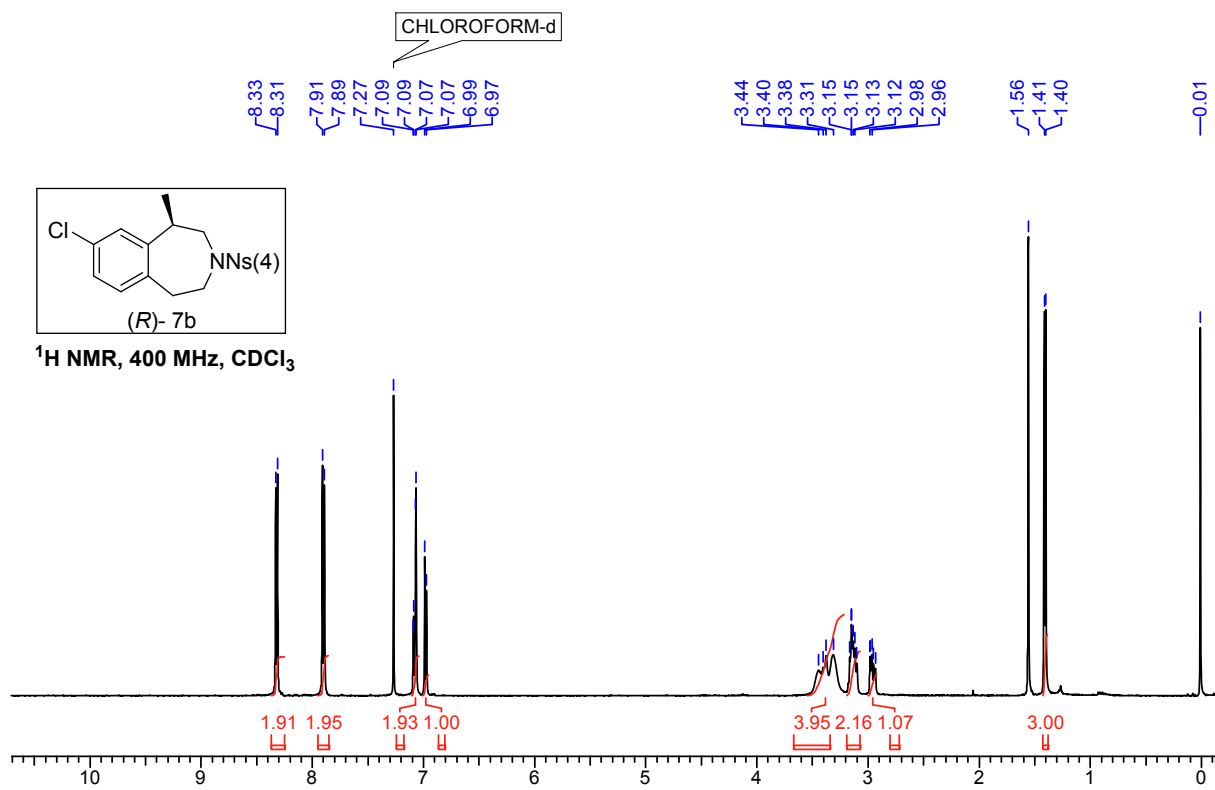
¹H NMR & ¹³C NMR of Compound (R)-5b in CDCl₃



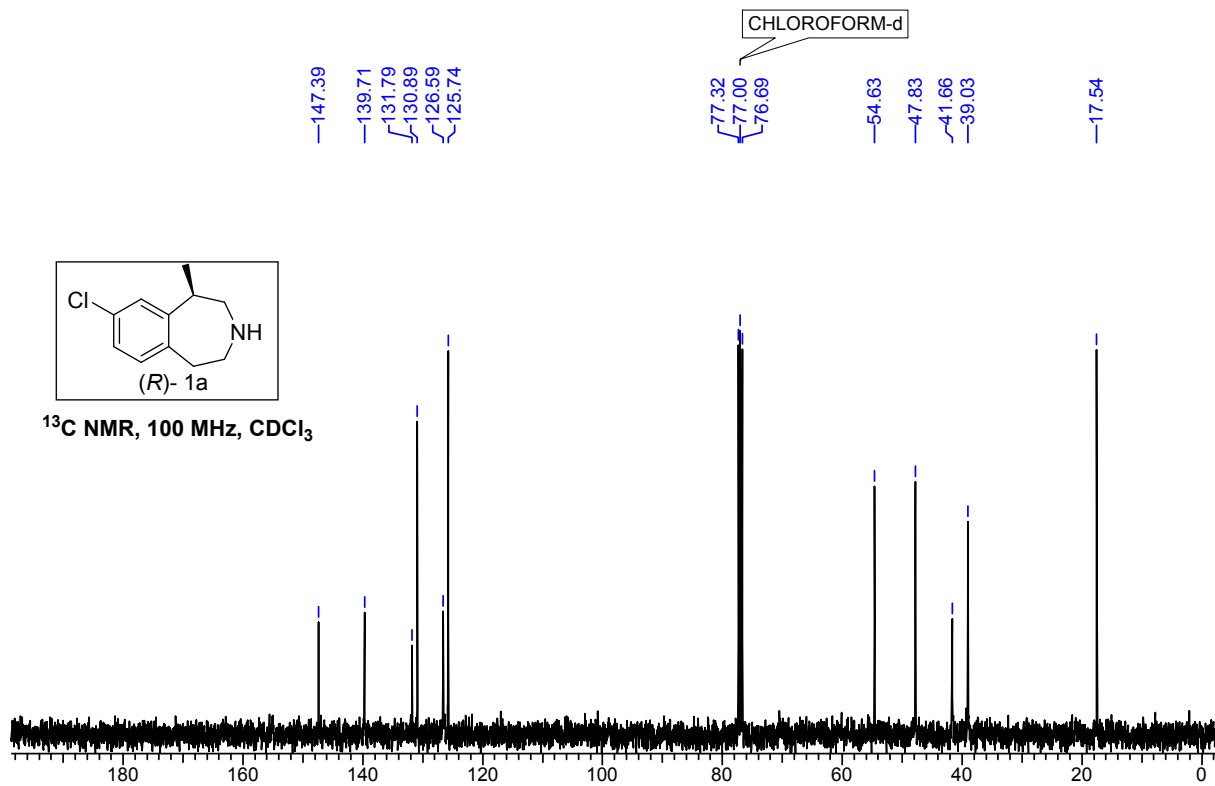
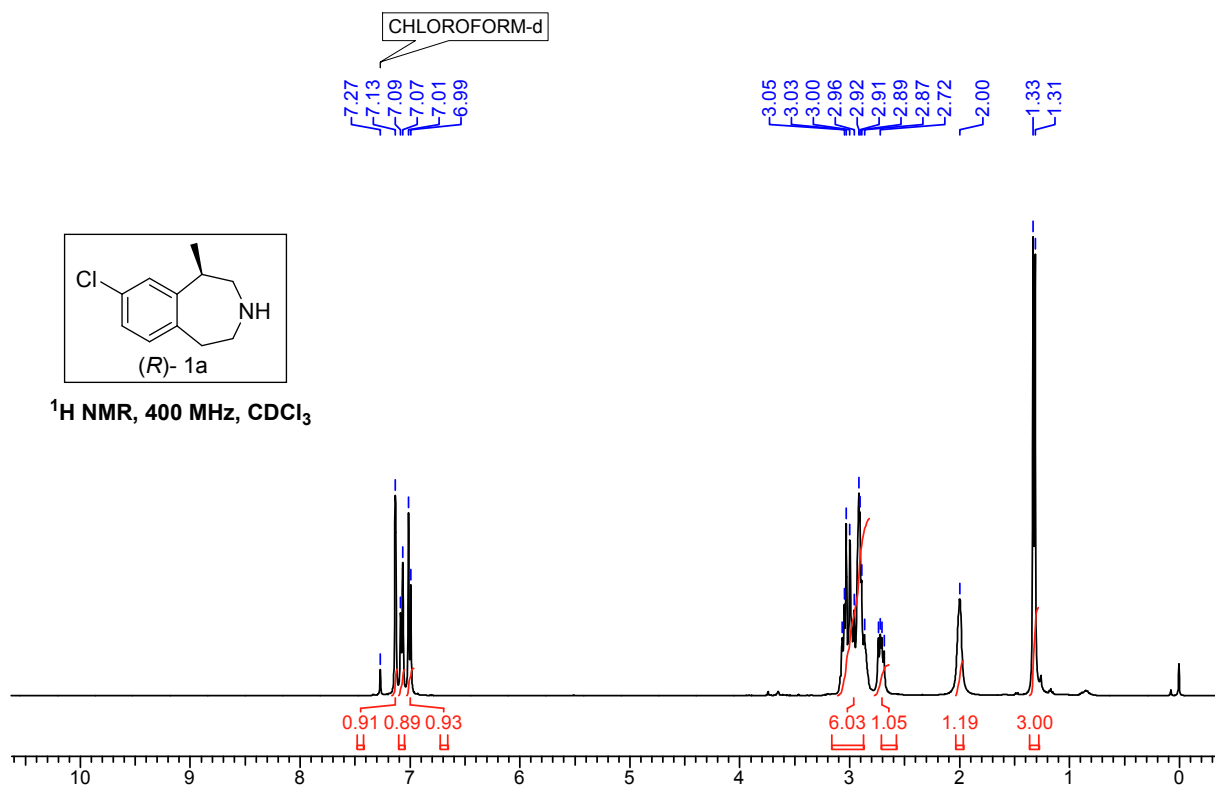
¹H NMR & ¹³C NMR of Compound (R)-6a in CDCl₃



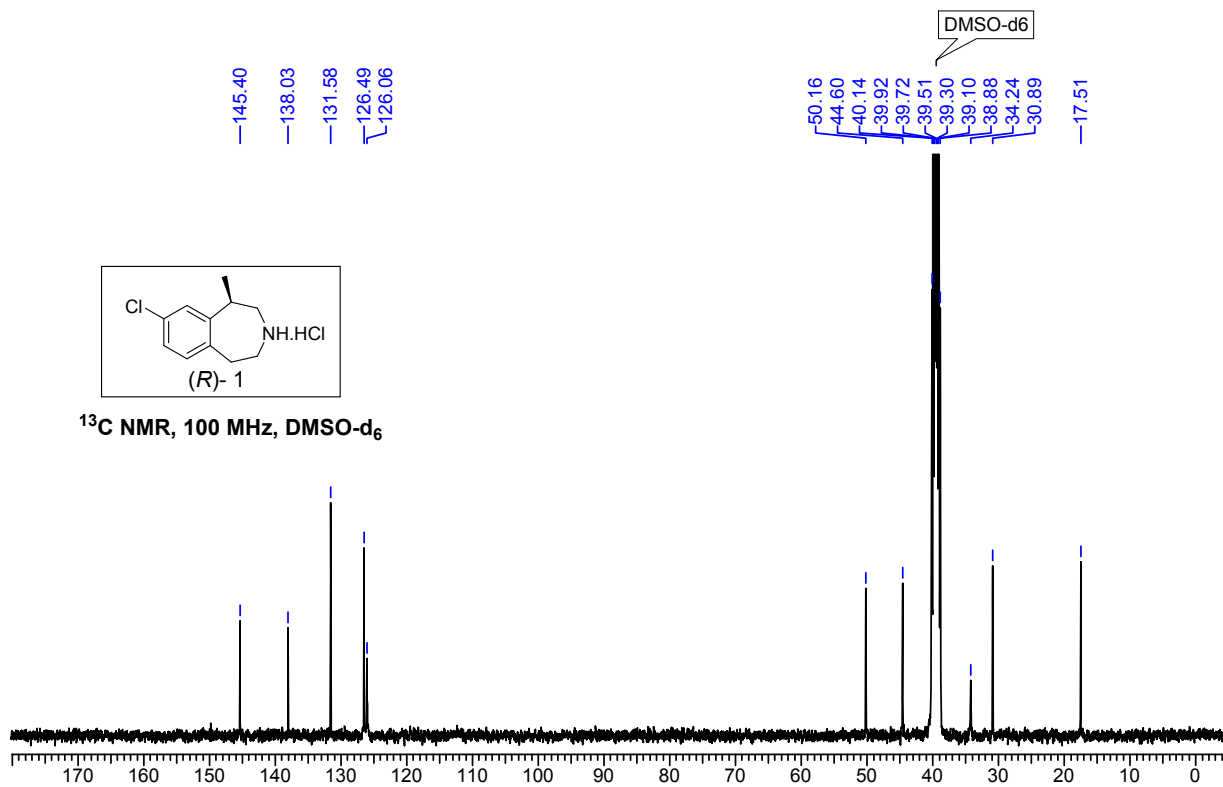
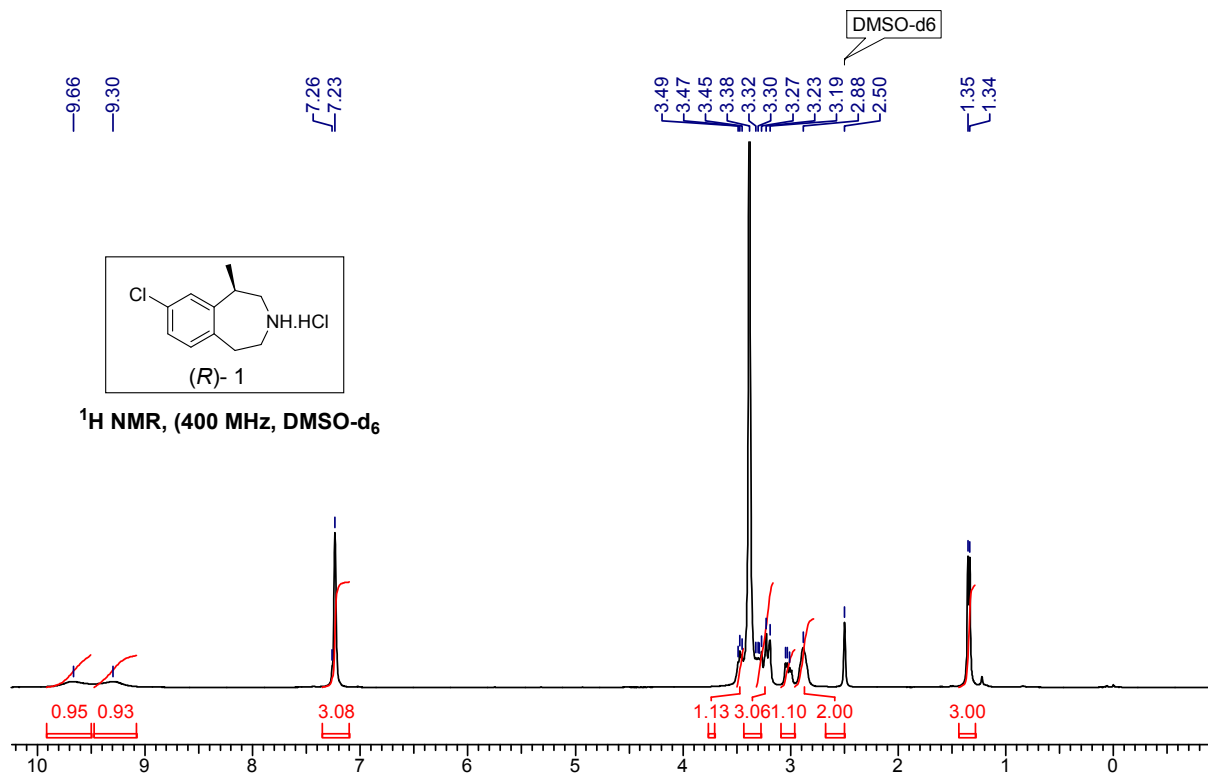
¹H NMR & ¹³C NMR of Compound (R)-6b in CDCl₃



¹H NMR & ¹³C NMR of Compound (R)-7b in CDCl₃

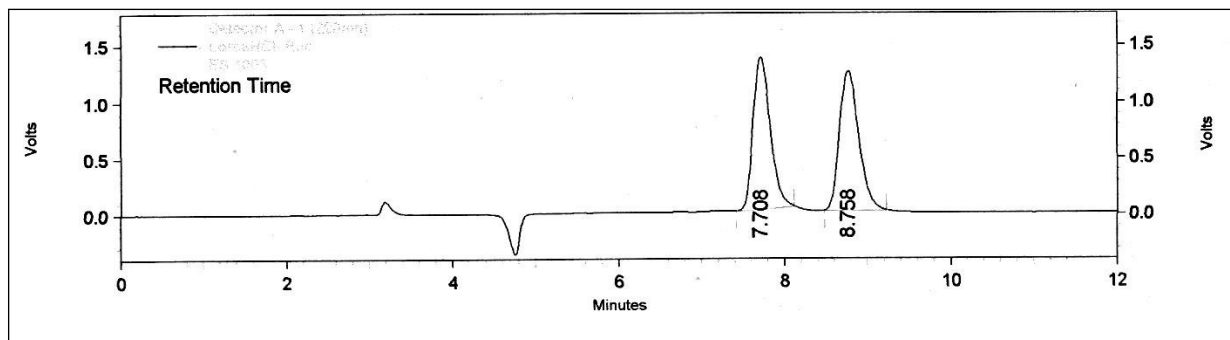


¹H NMR & ¹³C NMR of Compound (R)-1a in CDCl₃



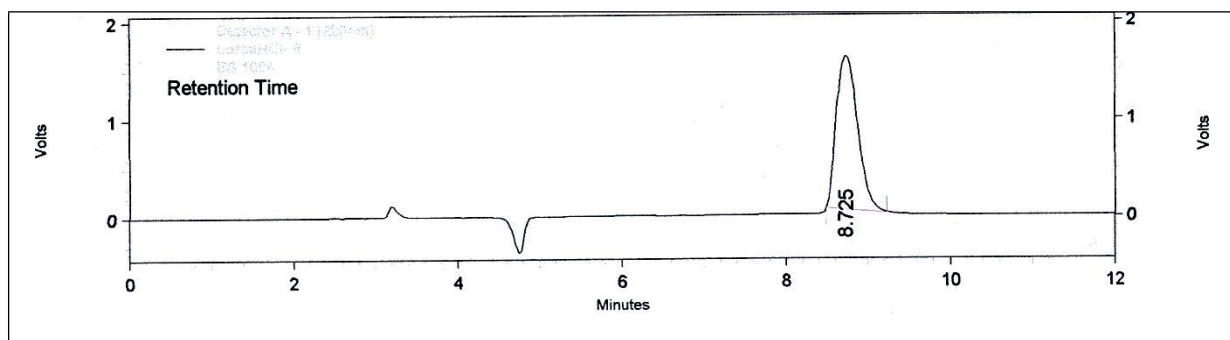
¹H NMR & ¹³C NMR of Compound (R)-1 in DMSO-d₆

Chiral HPLC Analysis of (R)-Lorcaserin Hydrochloride (R)-1



Racemic Sample Chromatograph

Pk #	Retention Time (mins)	Area	Area %
1	7.708	9701740	49.133
2	8.758	10044069	50.867
Totals		19745809	100.000



Chiral Sample Chromatograph

Pk #	Retention Time (mins)	Area	Area %
1	7.708	0	0
2	8.725	14114209	100.00
Totals		14114209	100.000