

Associated data

for

Neutral thioether and selenoether coordination to Group 1 cations (Li–Cs) – synthesis, spectroscopic and structural properties

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*School of Chemistry, University of Southampton, Southampton SO17 1BJ, UK. *Email:*

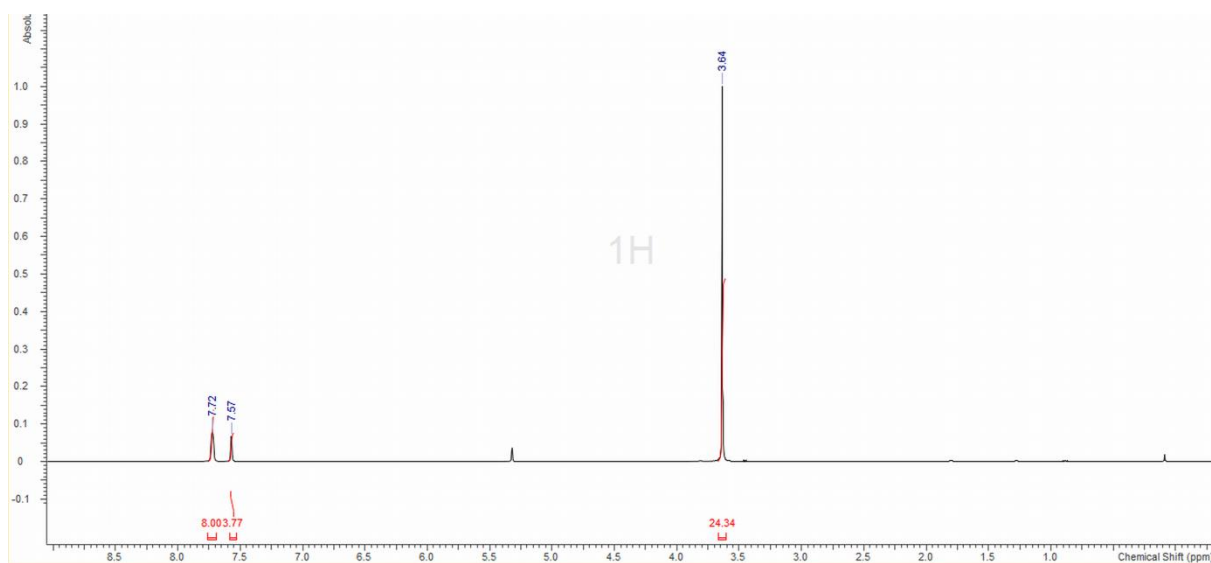
G.Reid@soton.ac.uk

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[Na(18-crown-6)][BAr ^F]	2
[Li([18]aneO ₄ S ₂)][BAr ^F]	4
[Na([18]aneO ₄ S ₂)][BAr ^F]	6
[K([18]aneO ₄ S ₂)][BAr ^F]	8
[Rb([18]aneO ₄ S ₂)][BAr ^F]	9
[Cs([18]aneO ₄ S ₂)][BAr ^F]	10
[Li([18]aneO ₂ S ₄)][BAr ^F]	12
[Na([18]aneO ₂ S ₄)][BAr ^F]	14
[K([18]aneO ₂ S ₄)][BAr ^F]	16
[Na([18]aneO ₄ Se ₂)][BAr ^F]	17
[K([18]aneO ₄ Se ₂)][BAr ^F]	19

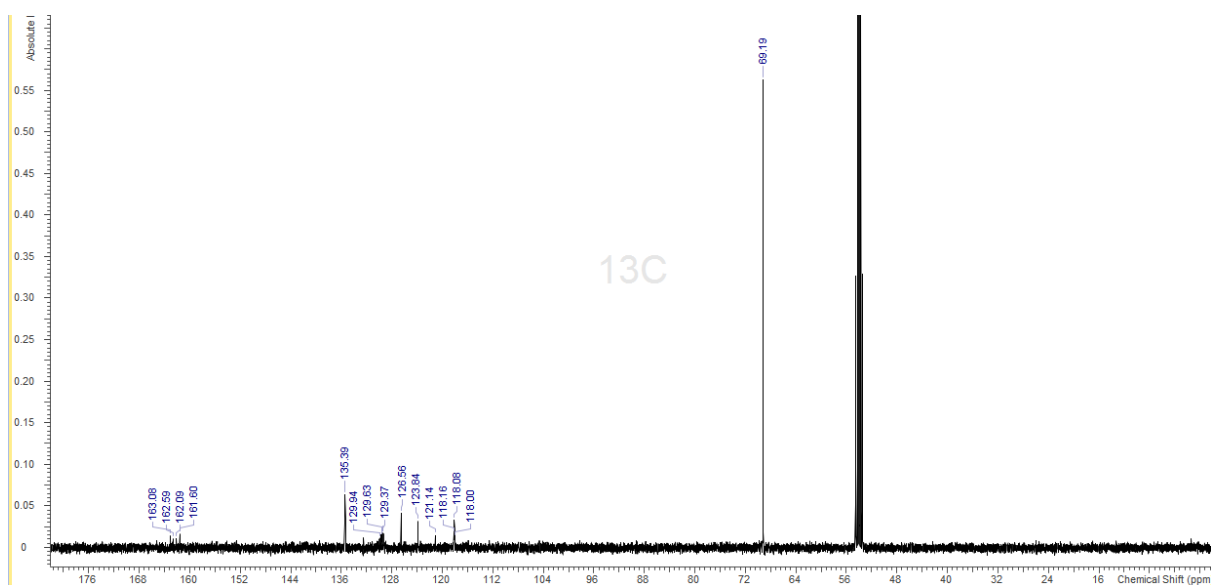
* Corresponding author: E-mail G.Reid@soton.ac.uk

[Na(18-crown-6)][BAr^F]

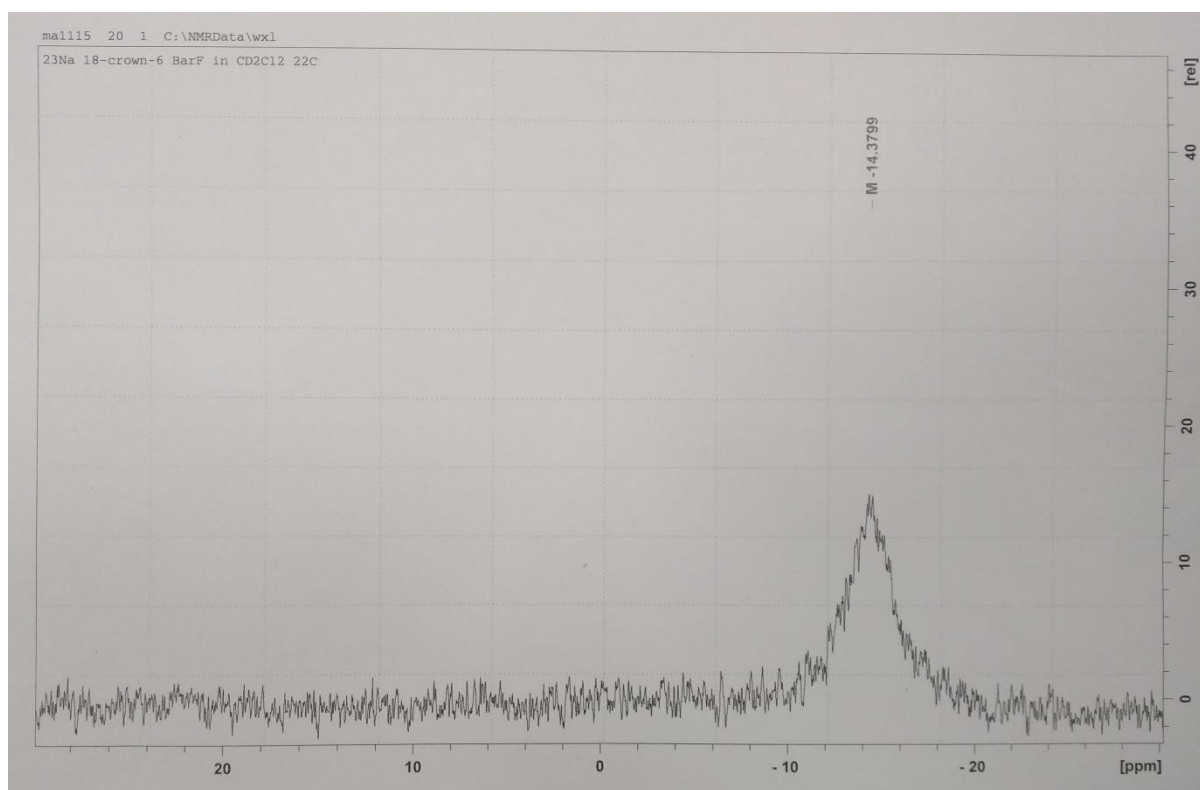
¹H NMR spectrum (400 MHz, CD₂Cl₂, 298 K)



¹³C{¹H} NMR spectrum (100.6 MHz, CD₂Cl₂, 298 K)

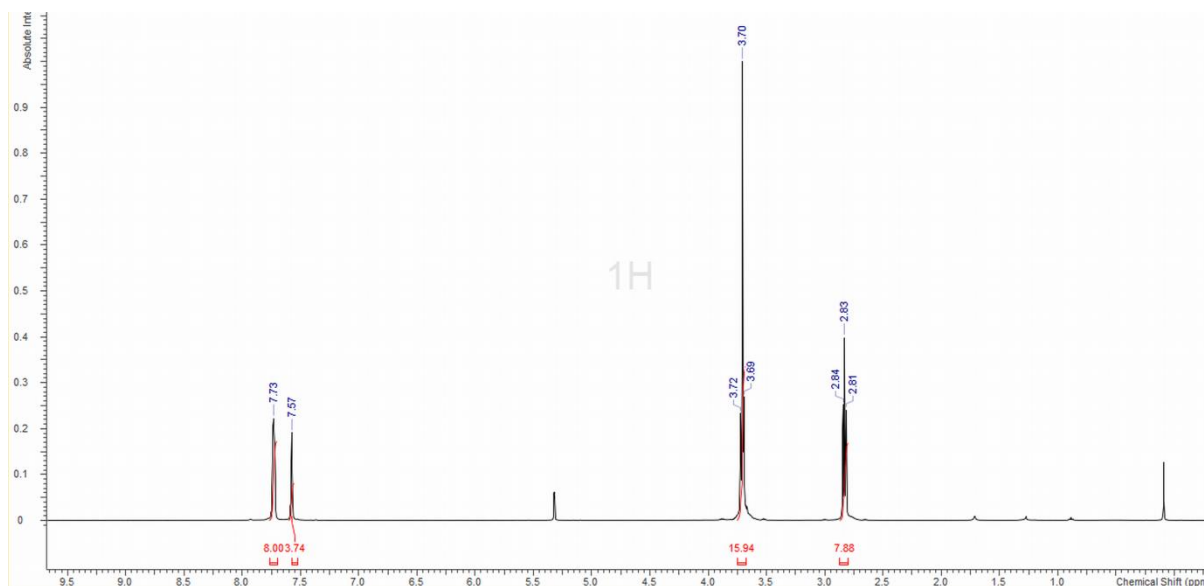


^{23}Na NMR spectrum (105.8 MHz, CD_2Cl_2 , 298 K)

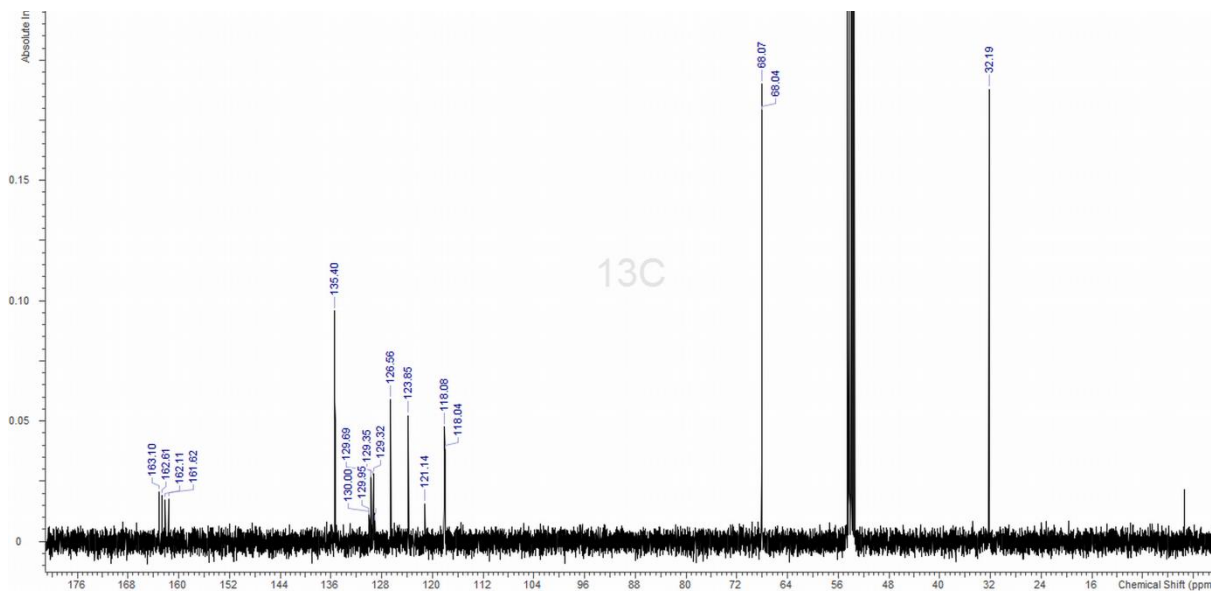


[Li([18]aneO₄S₂)] [BAr^F]

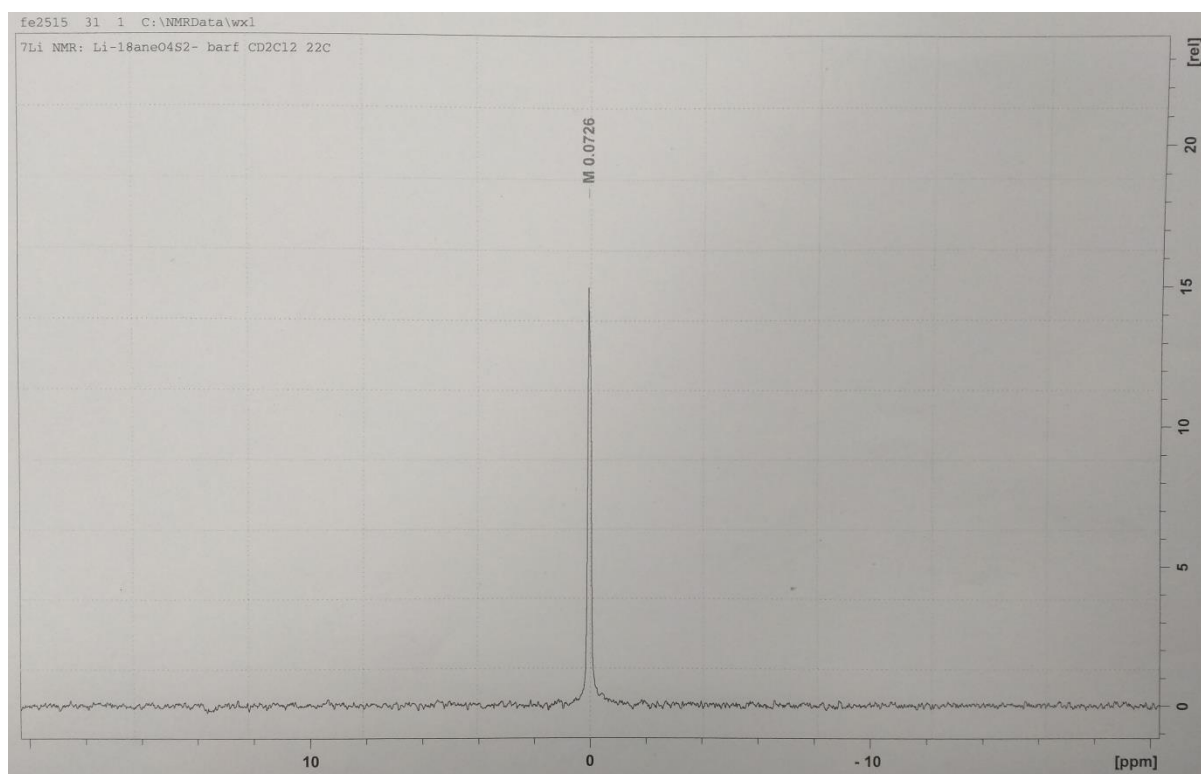
¹H NMR spectrum (400 MHz, CD₂Cl₂, 298 K)



¹³C{¹H} NMR spectrum (100.6 MHz, CD₂Cl₂, 298 K)

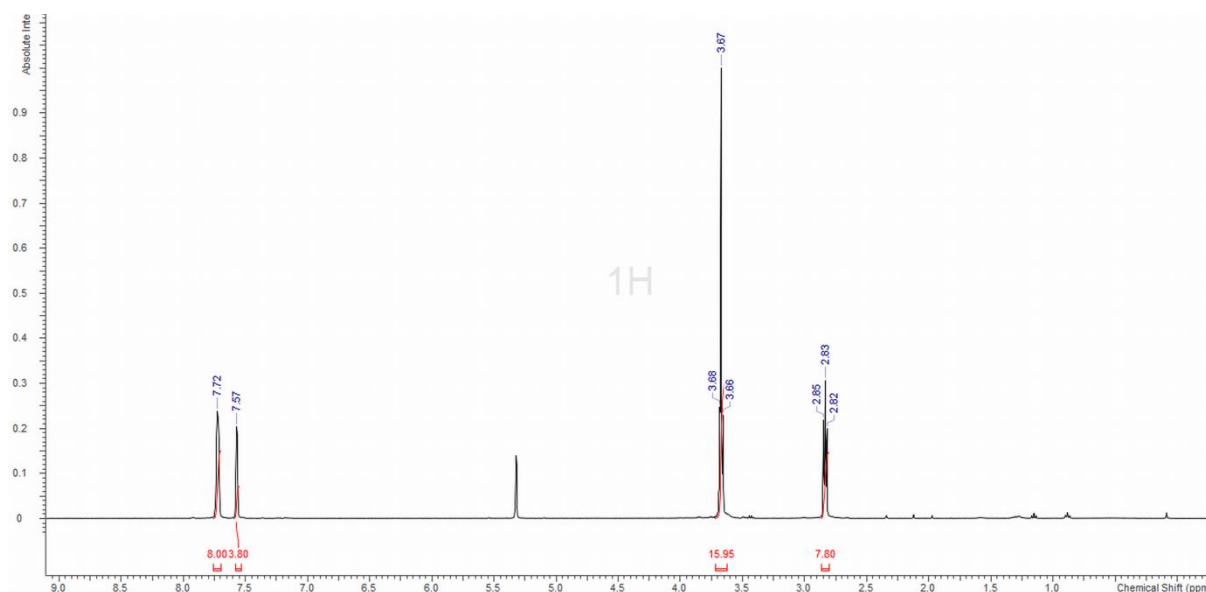


^7Li NMR spectrum (155.5 MHz, CD_2Cl_2 , 298 K)

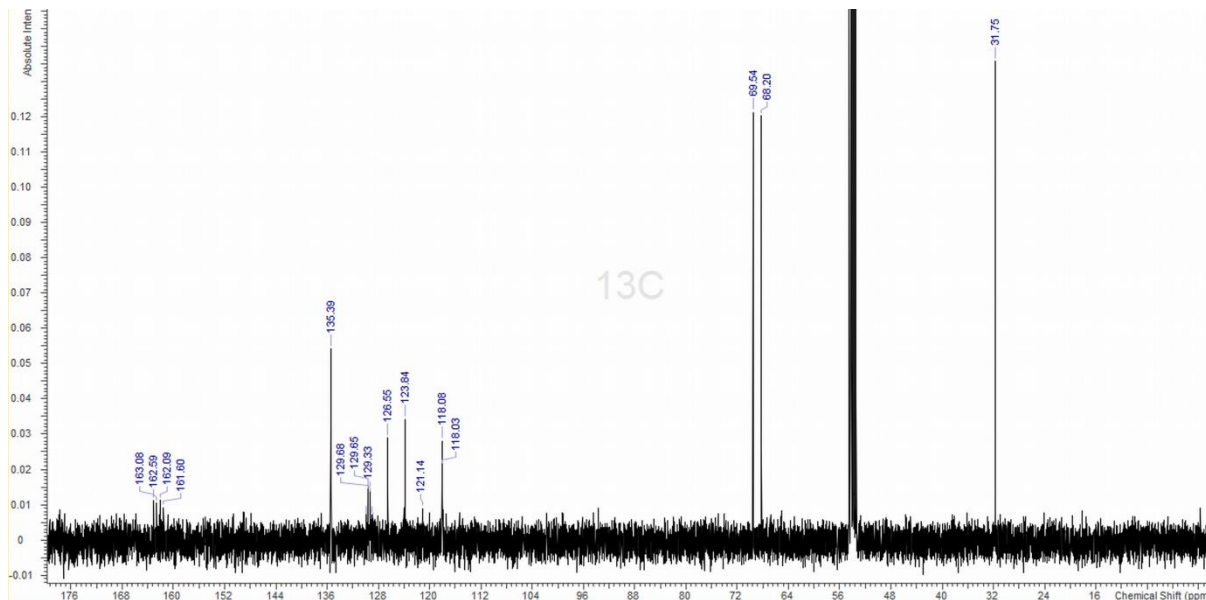


[Na([18]aneO₄S₂)] [BAr^F]

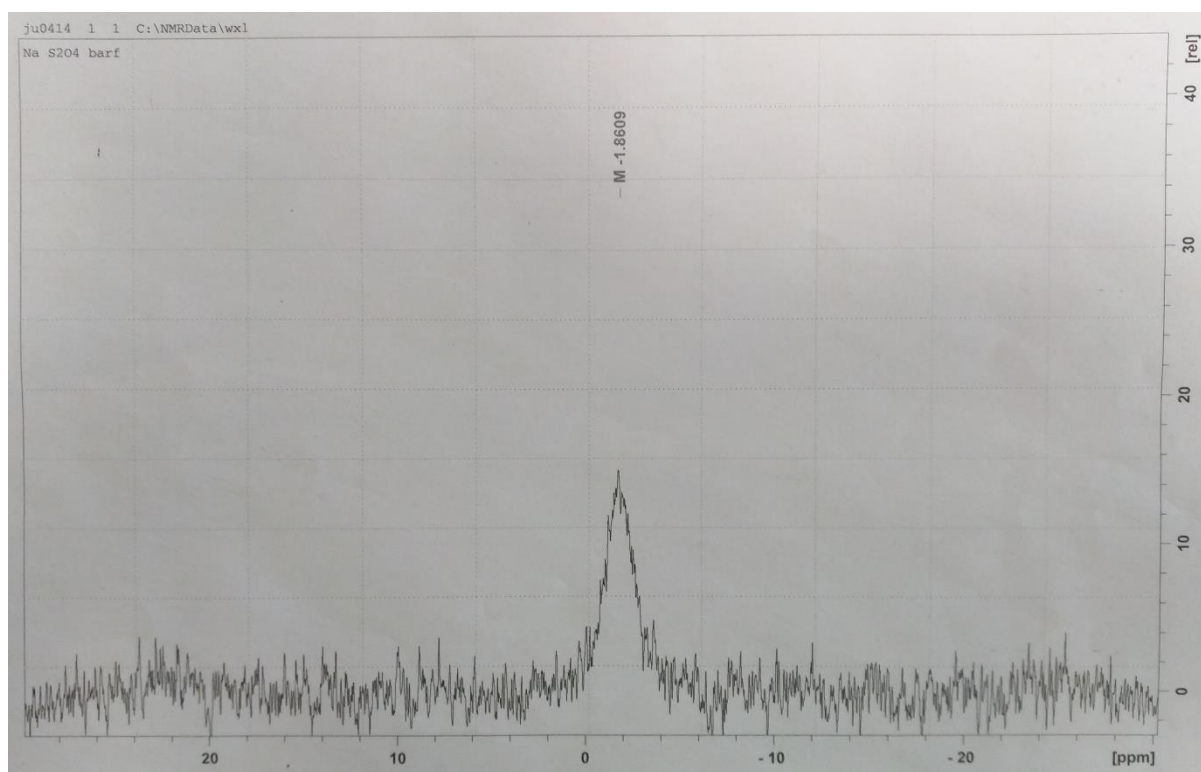
¹H NMR spectrum (400 MHz, CD₂Cl₂, 298 K)



¹³C{¹H} NMR spectrum (100.6 MHz, CD₂Cl₂, 298 K)

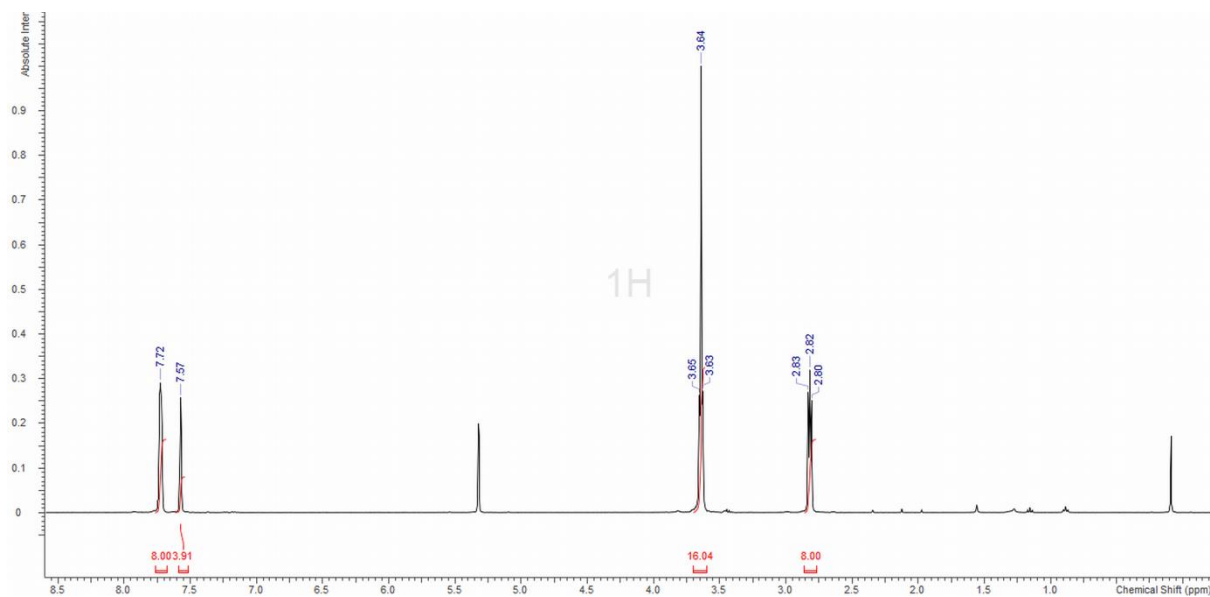


^{23}Na NMR spectrum (105.8 MHz, CD_2Cl_2 , 298 K)

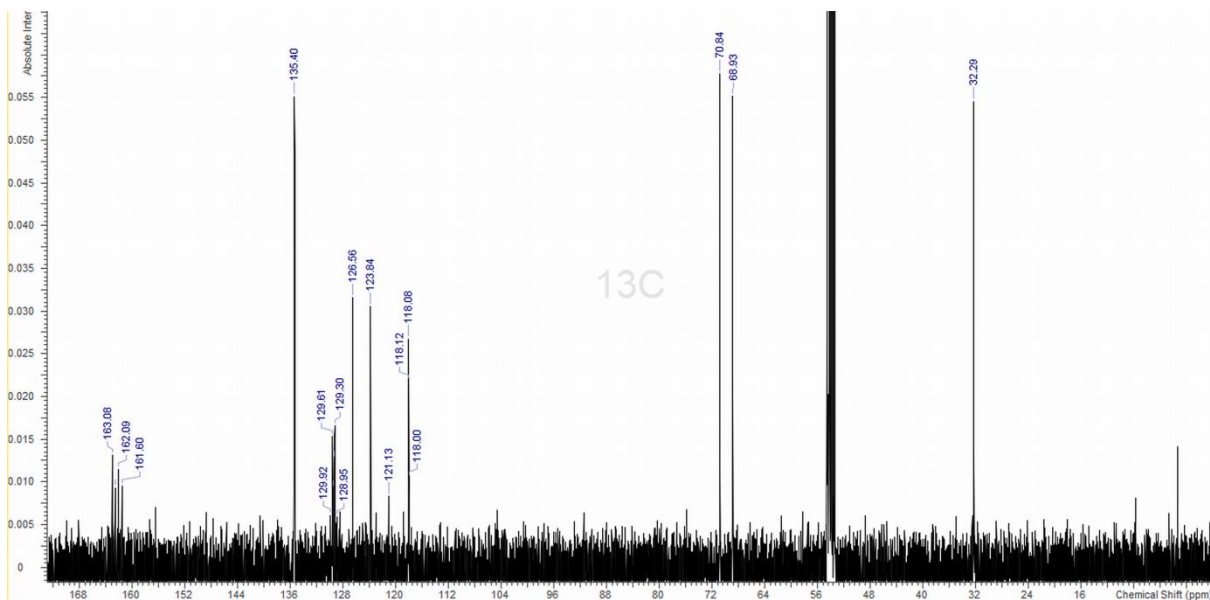


[K([18]aneO₄S₂)] [BAr^F]

¹H NMR spectrum (400 MHz, CD₂Cl₂, 298 K)

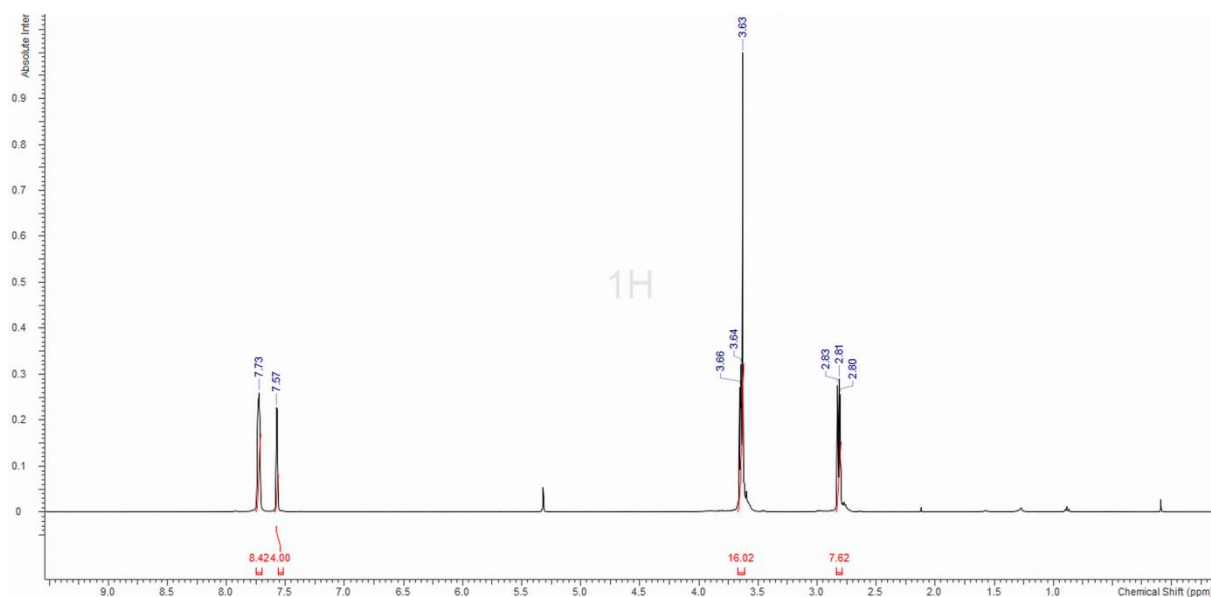


¹³C{¹H} NMR spectrum (100.6 MHz, CD₂Cl₂, 298 K)

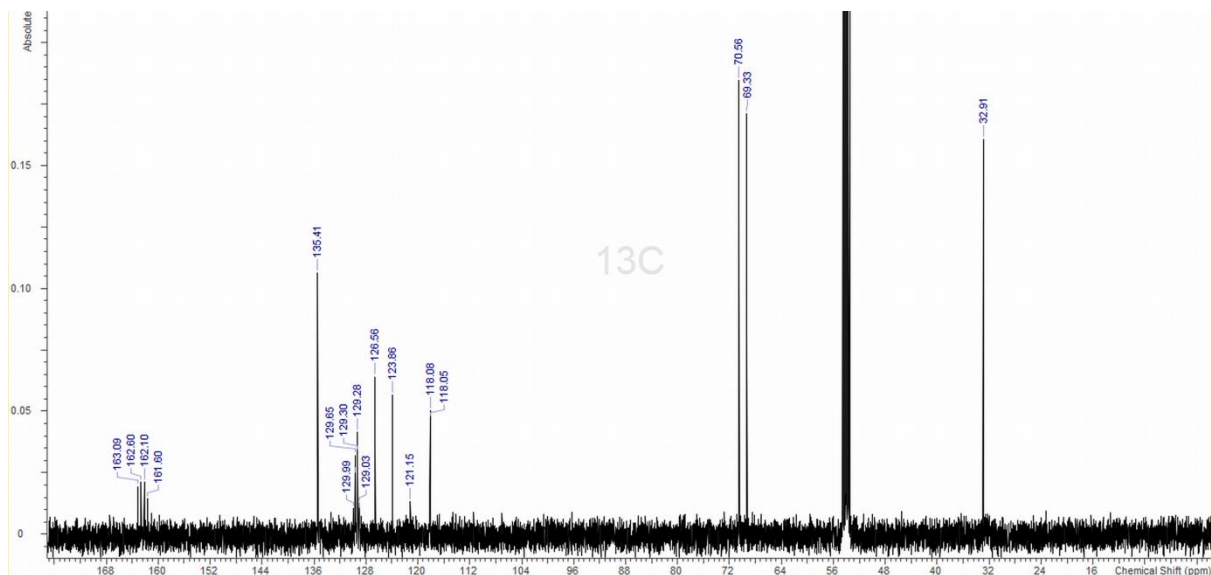


[Rb([18]aneO₄S₂)] [BAr^F]

¹H NMR spectrum (400 MHz, CD₂Cl₂, 298 K)

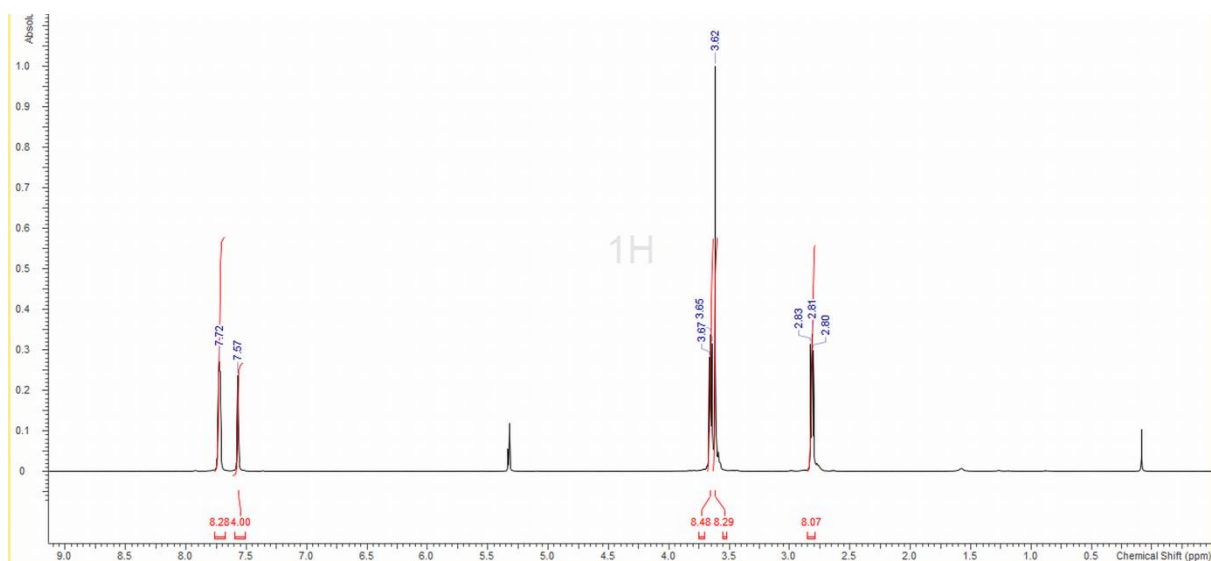


¹³C{¹H} NMR spectrum (100.6 MHz, CD₂Cl₂, 298 K)

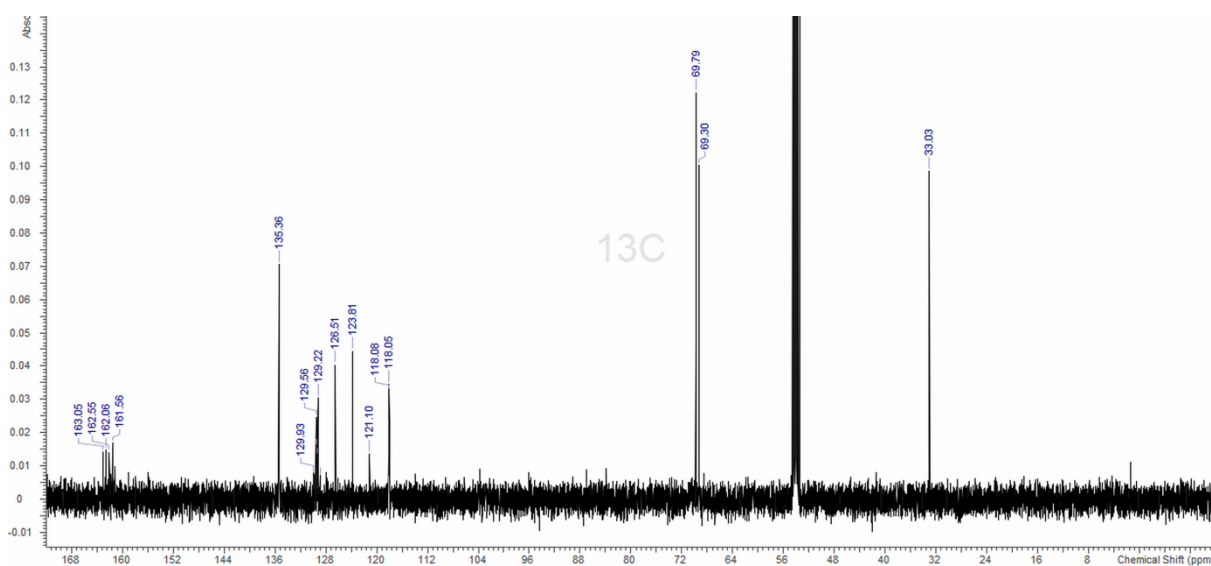


[Cs([18]aneO₄S₂)] [BAr^F]

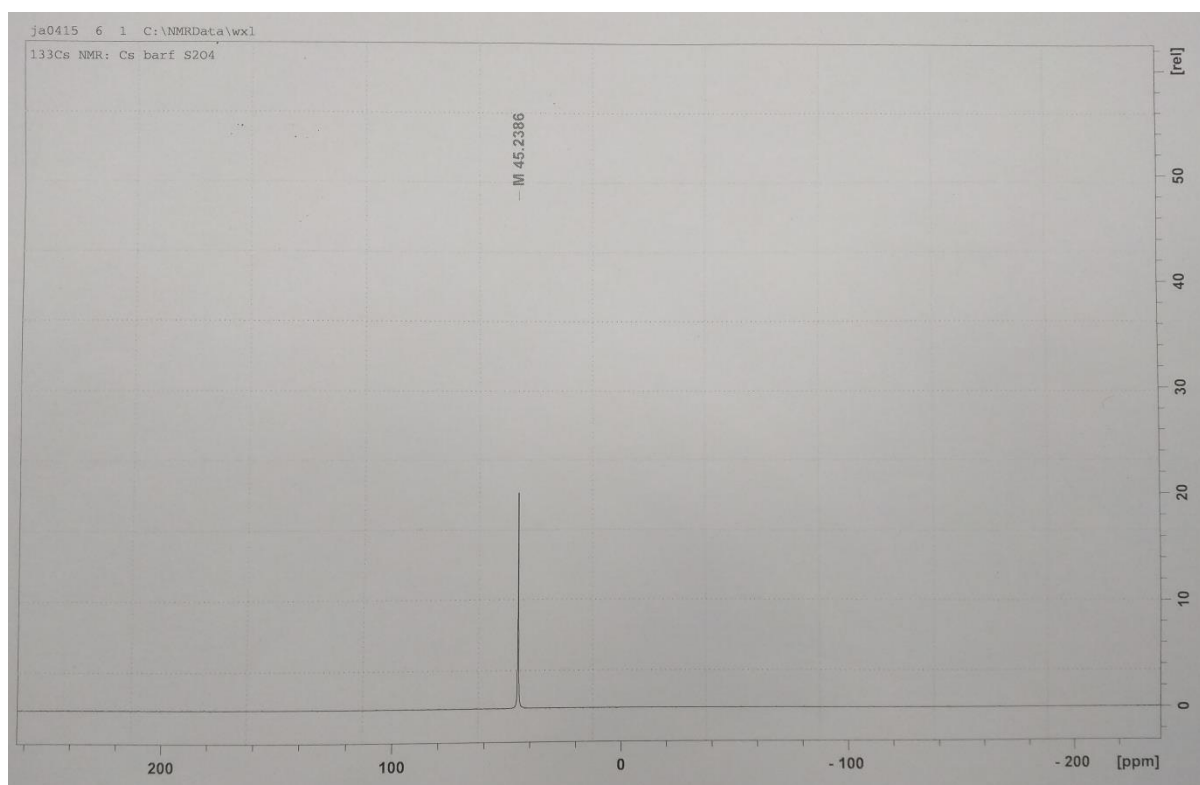
¹H NMR spectrum (400 MHz, CD₂Cl₂, 298 K)



¹³C{¹H} NMR spectrum (100.6 MHz, CD₂Cl₂, 298 K)

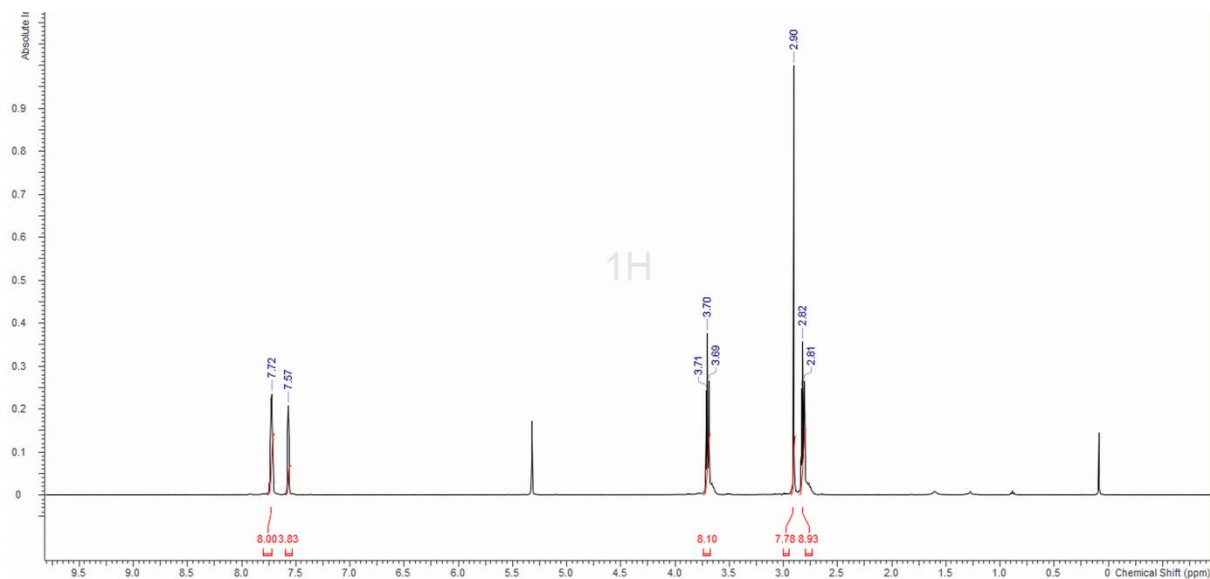


^{133}Cs NMR spectrum (52.5 MHz, CD_2Cl_2 , 298 K)

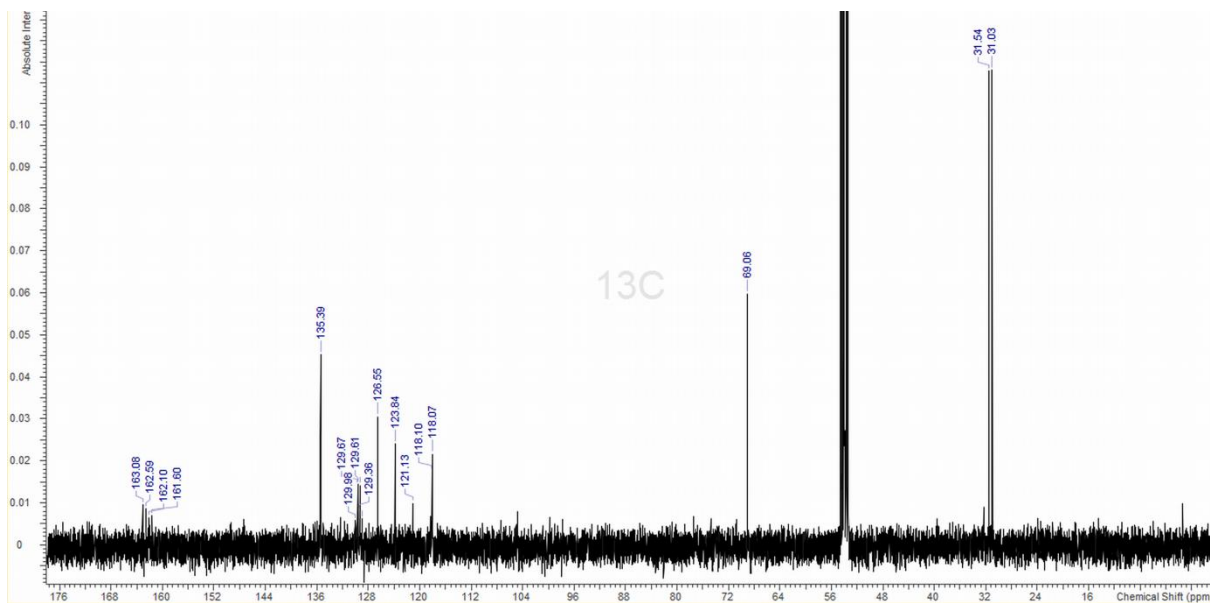


[Li([18]aneO₂S₄)] [BAr^F]

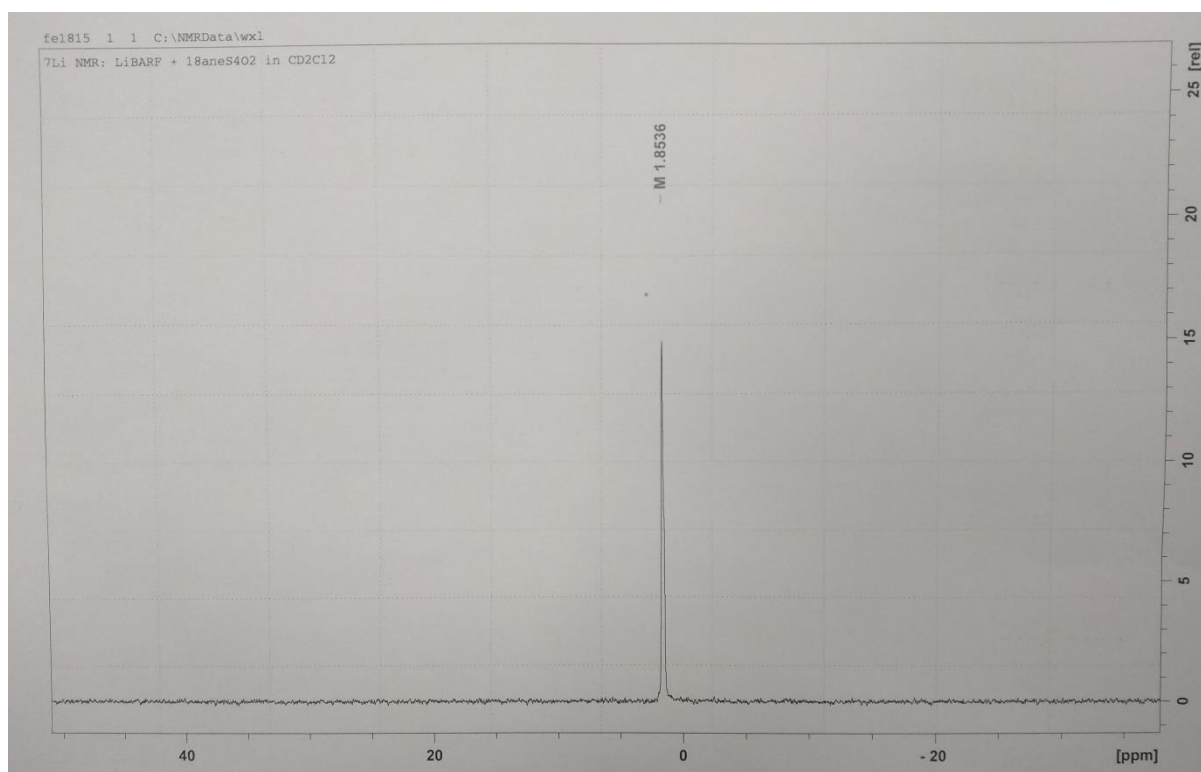
¹H NMR spectrum (400 MHz, CD₂Cl₂, 298 K)



¹³C{¹H} NMR spectrum (100.6 MHz, CD₂Cl₂, 298 K)

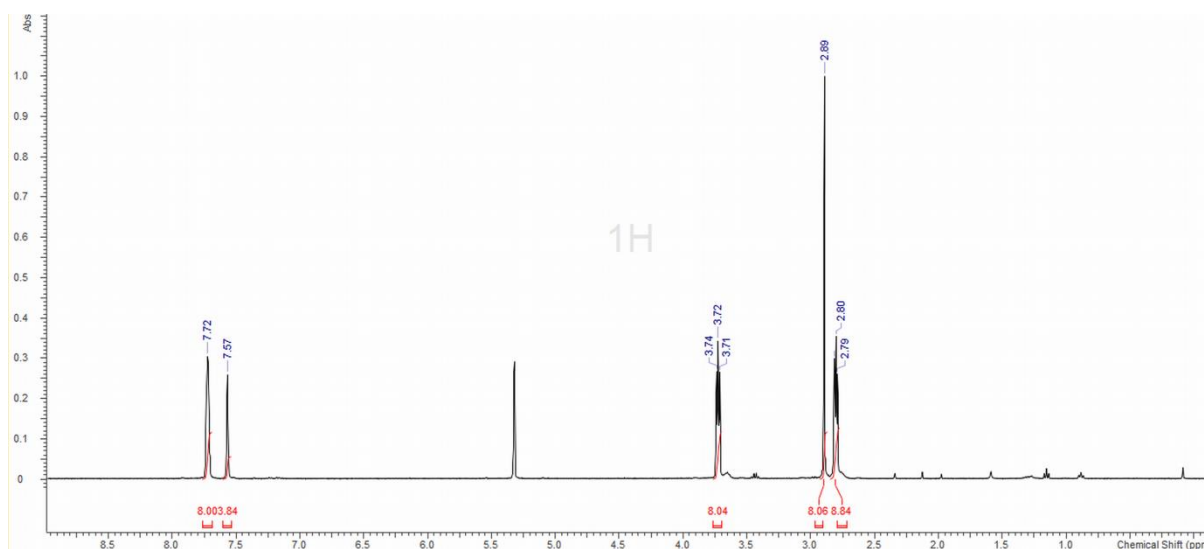


^7Li NMR spectrum (155.5 MHz, CD_2Cl_2 , 298 K)

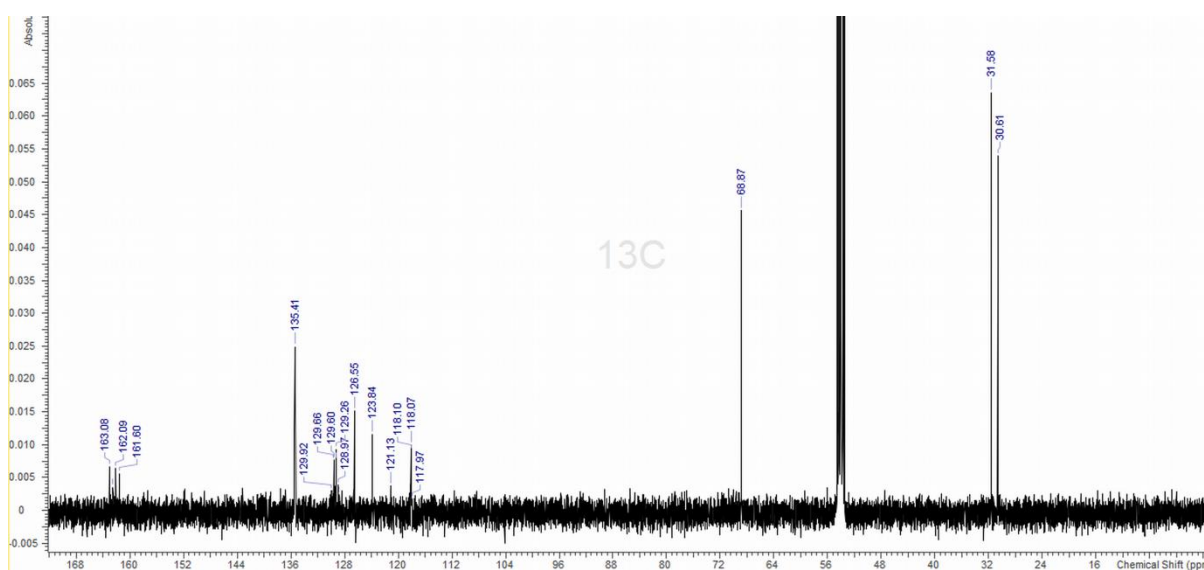


[Na([18]aneO₂S₄)] [BAr^F]

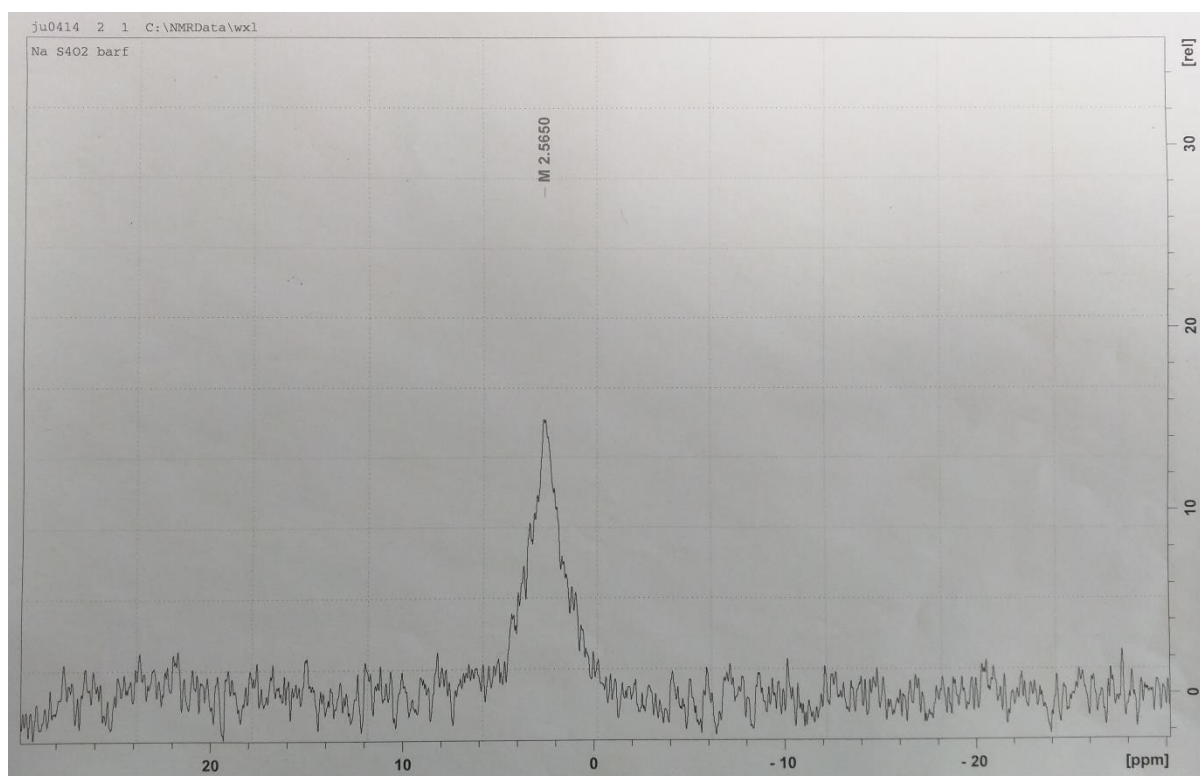
¹H NMR spectrum (400 MHz, CD₂Cl₂, 298 K)



¹³C{¹H} NMR spectrum (100.6 MHz, CD₂Cl₂, 298 K)

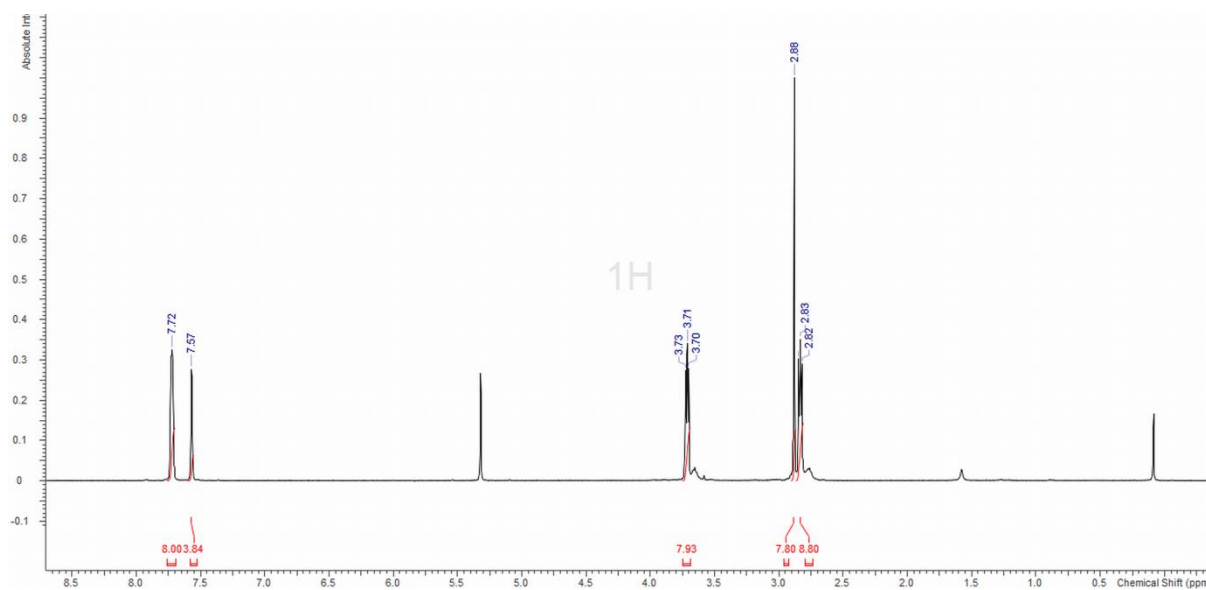


^{23}Na NMR spectrum (105.8 MHz, CD_2Cl_2 , 298 K)

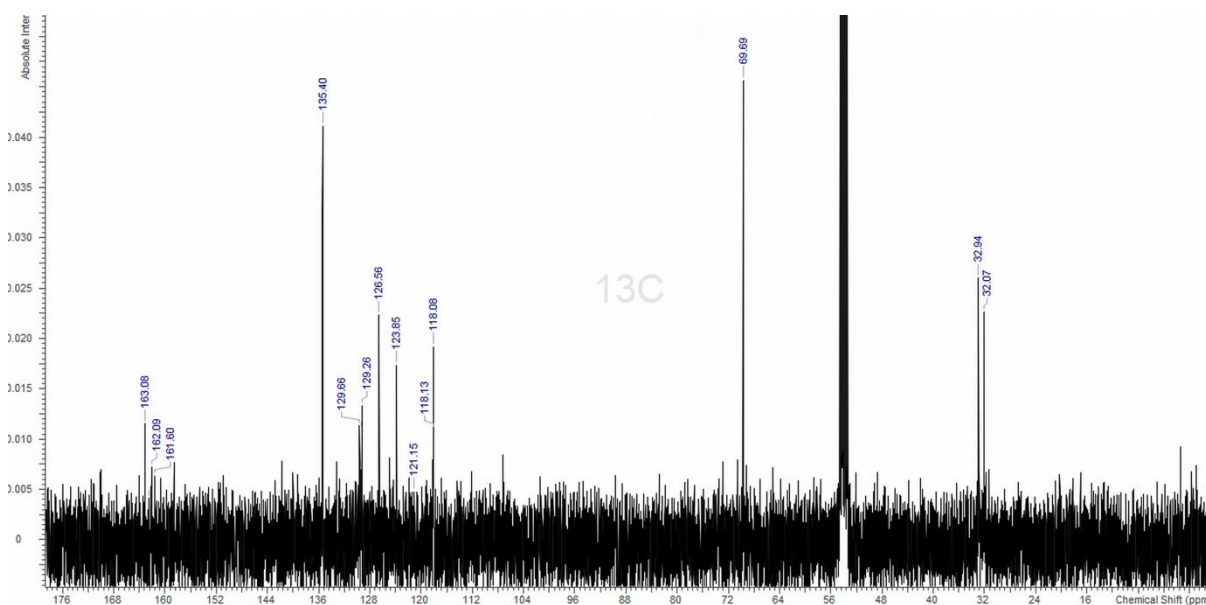


[K([18]aneO₂S₄)] [BAr^F]

¹H NMR spectrum (400 MHz, CD₂Cl₂, 298 K)

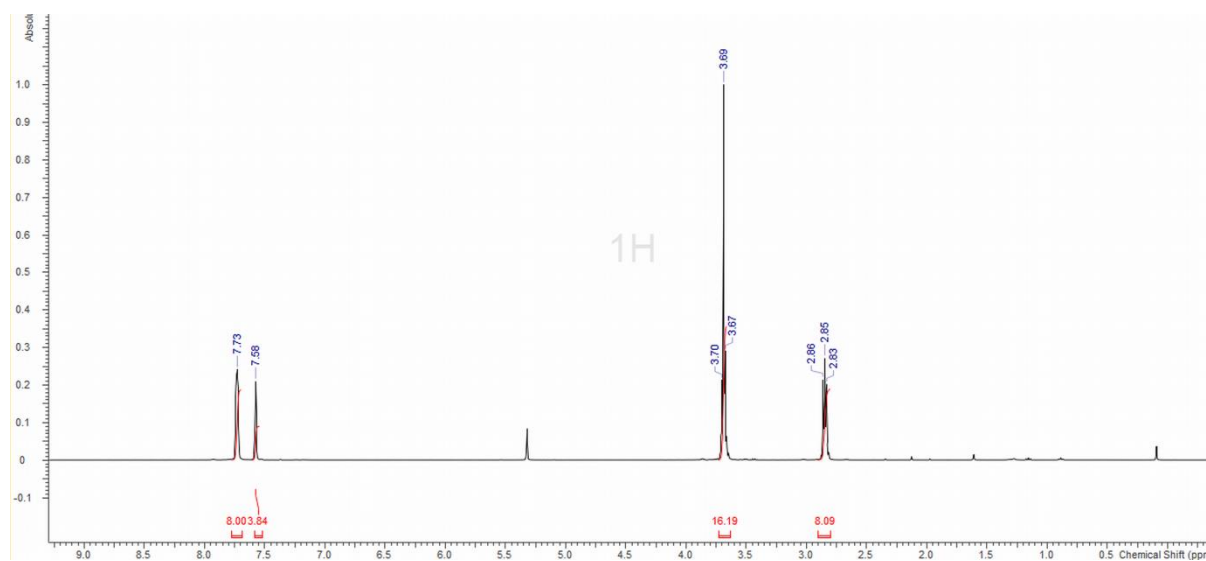


¹³C{¹H} NMR spectrum (100.6 MHz, CD₂Cl₂, 298 K)

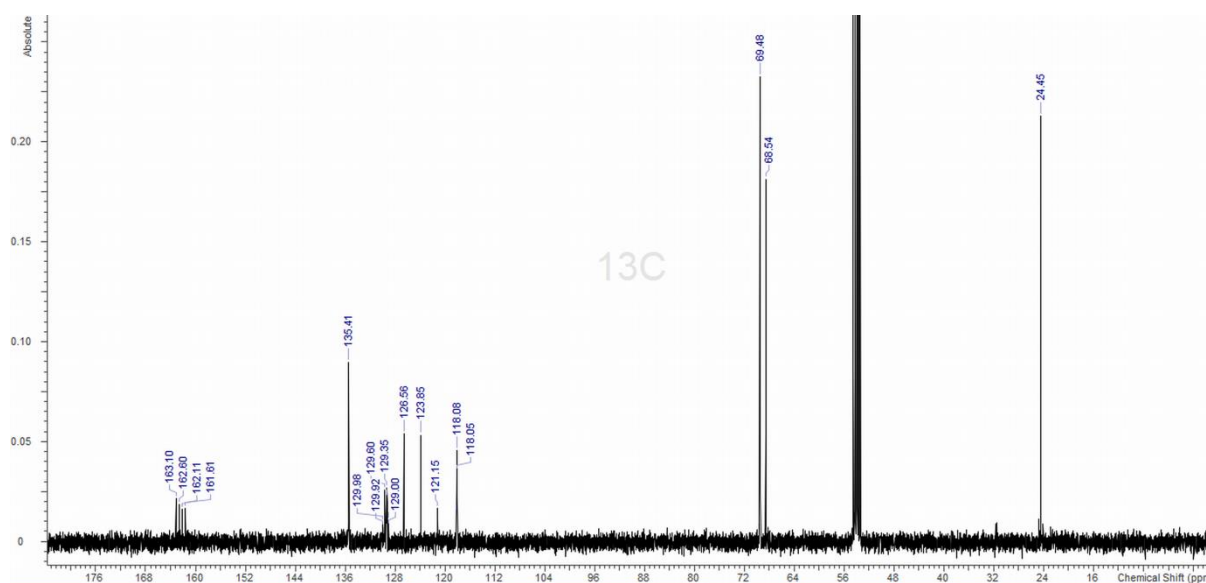


[Na([18]aneO₄Se₂)] [BAr^F]

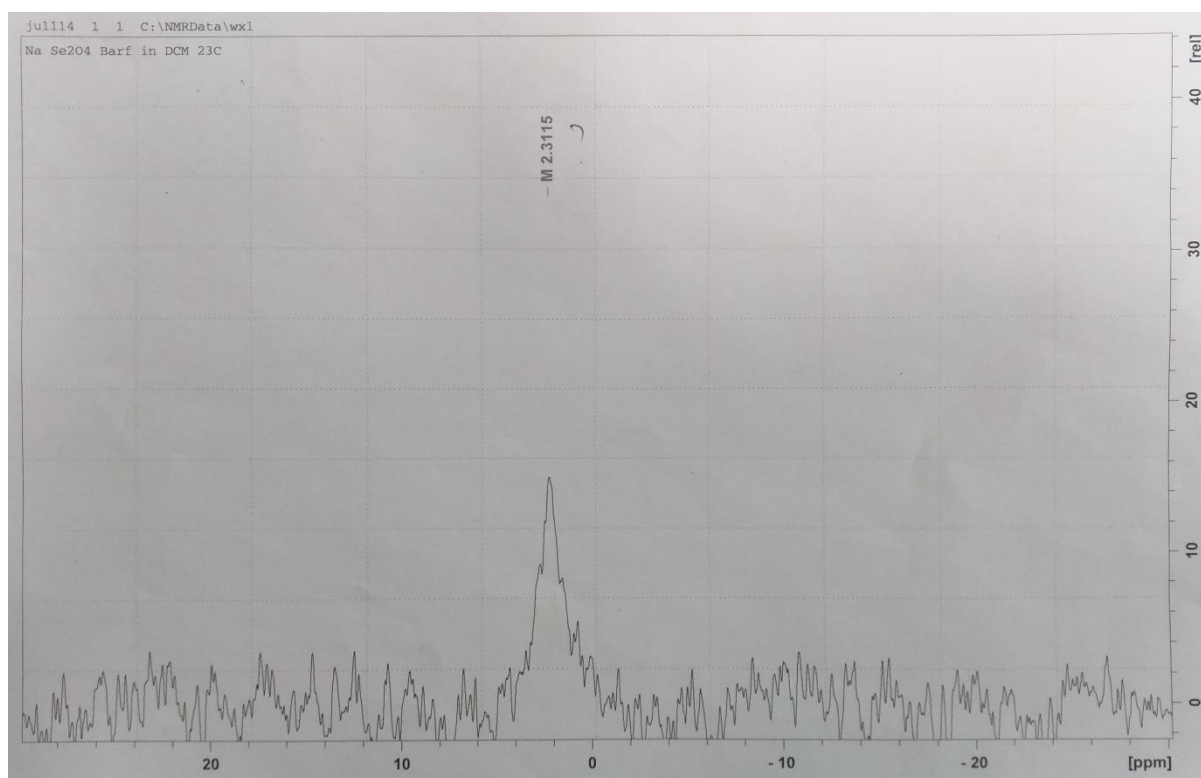
¹H NMR spectrum (400 MHz, CD₂Cl₂, 298 K)



¹³C{¹H} NMR spectrum (100.6 MHz, CD₂Cl₂, 298 K)

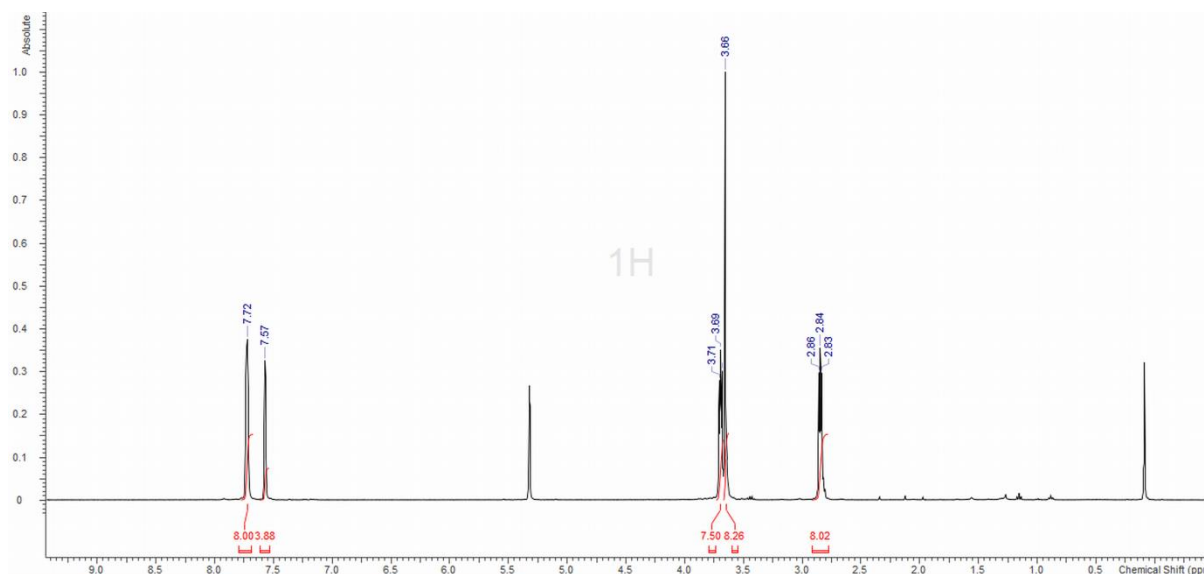


^{23}Na NMR spectrum (105.8 MHz, CD_2Cl_2 , 298 K)



[K([18]aneO₄Se₂)] [BAr^F]

¹H NMR spectrum (400 MHz, CD₂Cl₂, 298 K)



¹³C{¹H} NMR spectrum (100.6 MHz, CD₂Cl₂, 298 K)

