

## Supporting Information

for

# A new protocol for the synthesis of 4,7,12,15-tetrachloro[2.2]paracyclophane

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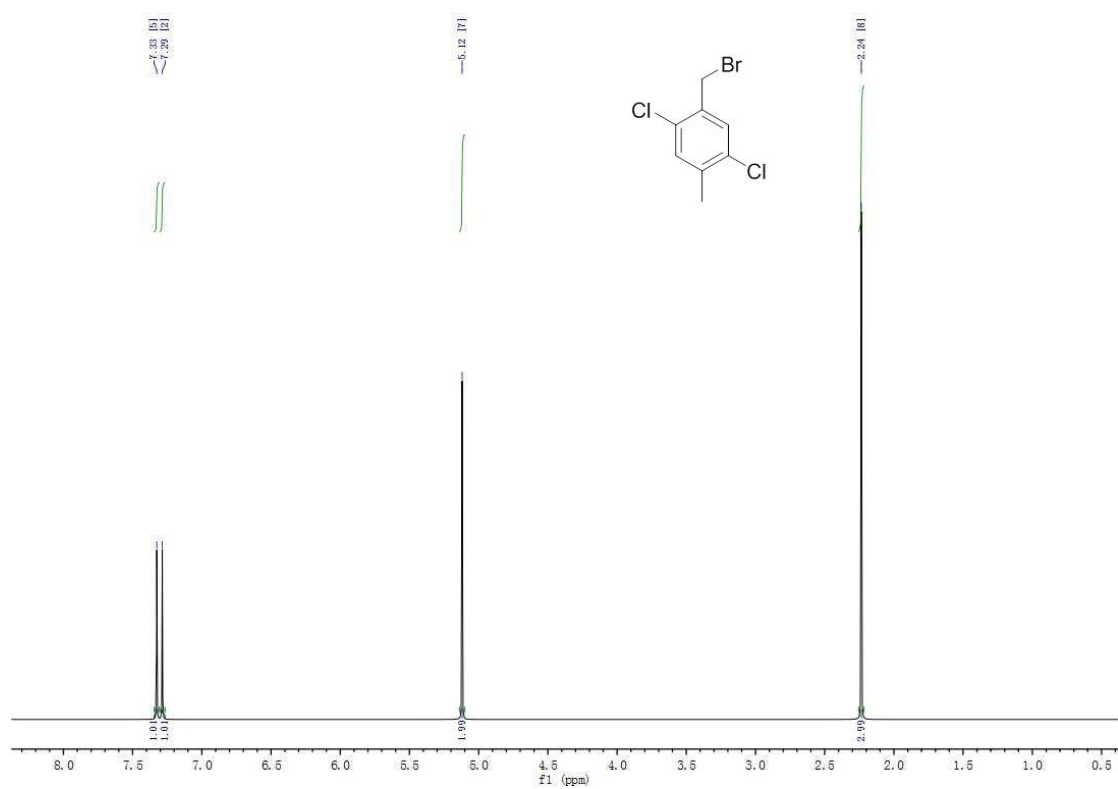
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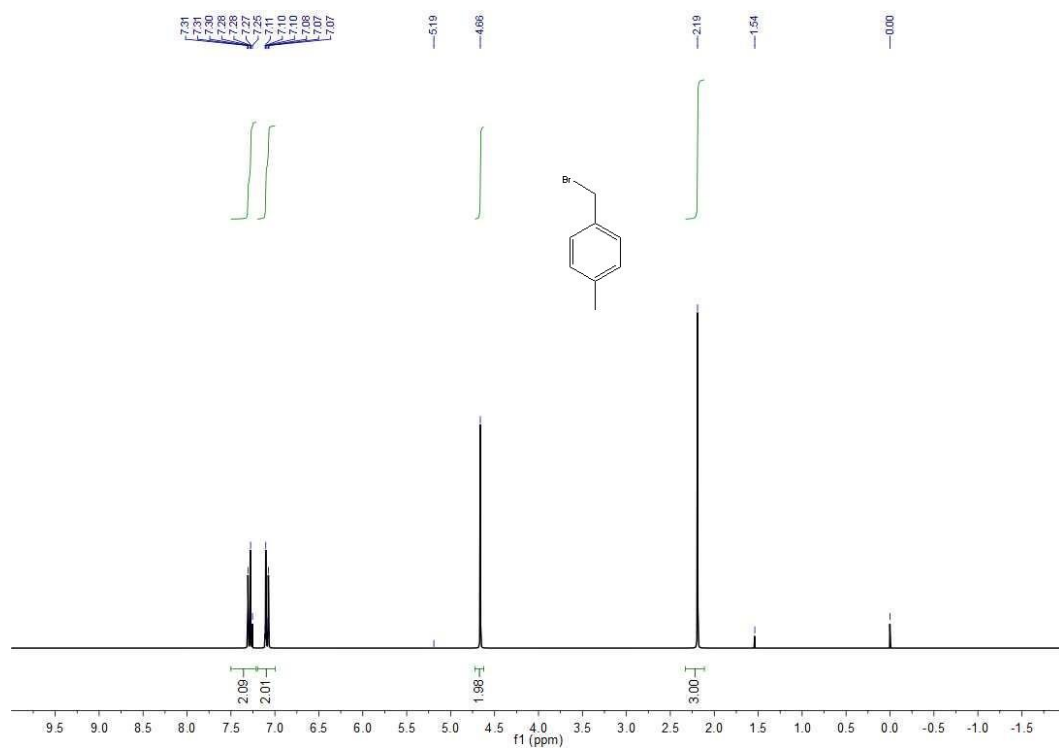
### Copies of MS, <sup>1</sup>H and <sup>13</sup>C NMR spectra of the synthesized compounds

1. <sup>1</sup> H NMR spectra of <b>2a–10a</b> .....	S2–S4
2. MS spectrum of <b>2a</b> .....	S5
3. <sup>1</sup> H NMR and <sup>13</sup> C NMR spectra of <b>16</b> .....	S6
4. <sup>1</sup> H NMR spectra of <b>17–20</b> .....	S7

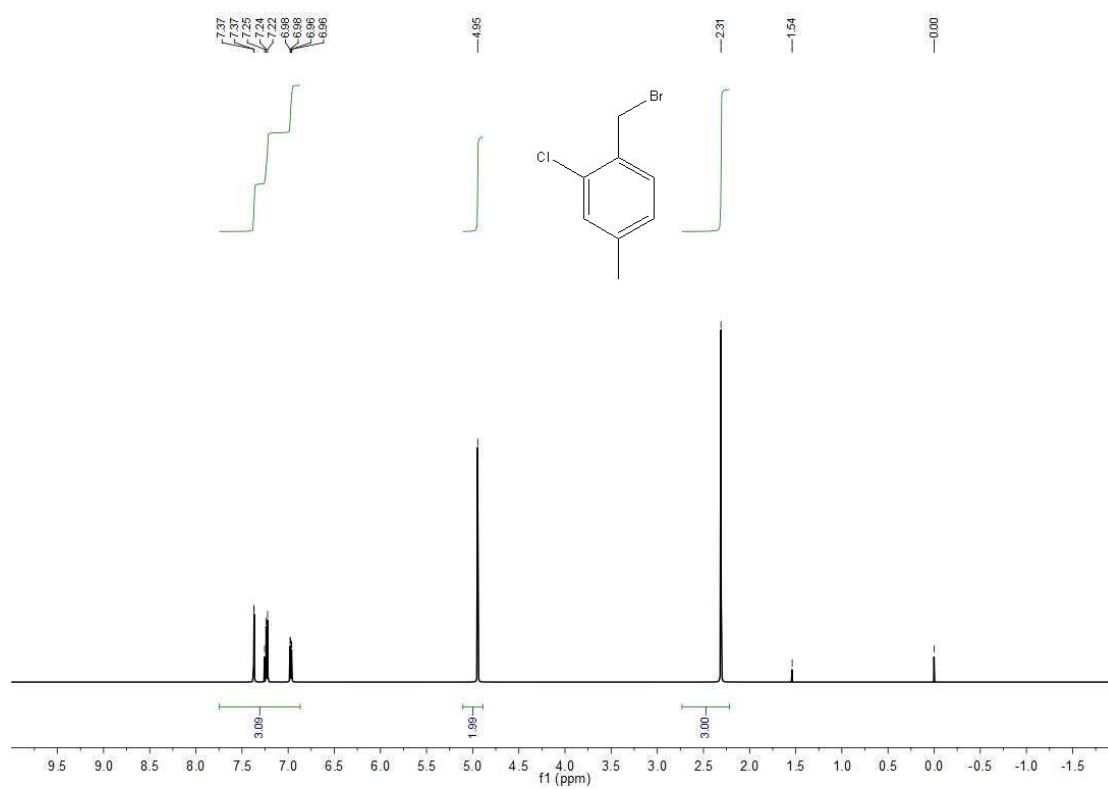
$^1\text{H}$  NMR spectrum of 1-(bromomethyl)-2,5-dichloro-4-methylbenzene (**2a**)



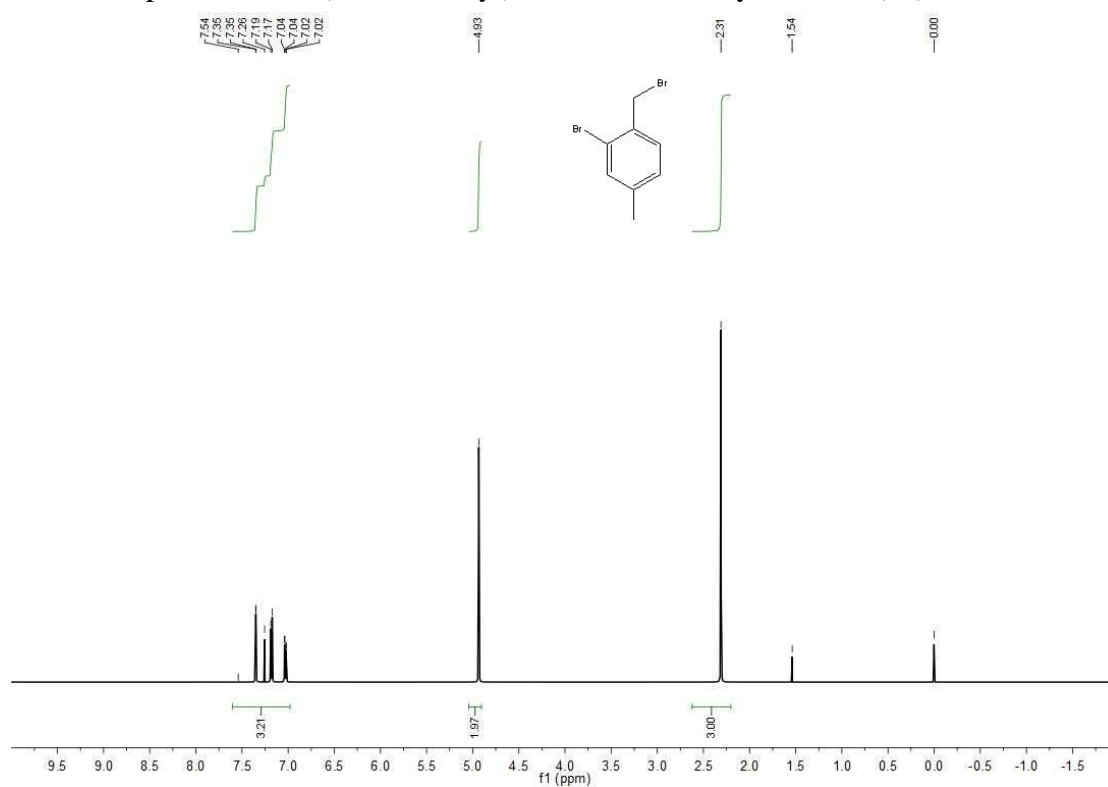
$^1\text{H}$  NMR spectrum of 1-(bromomethyl)-4-methylbenzene (**4a**)



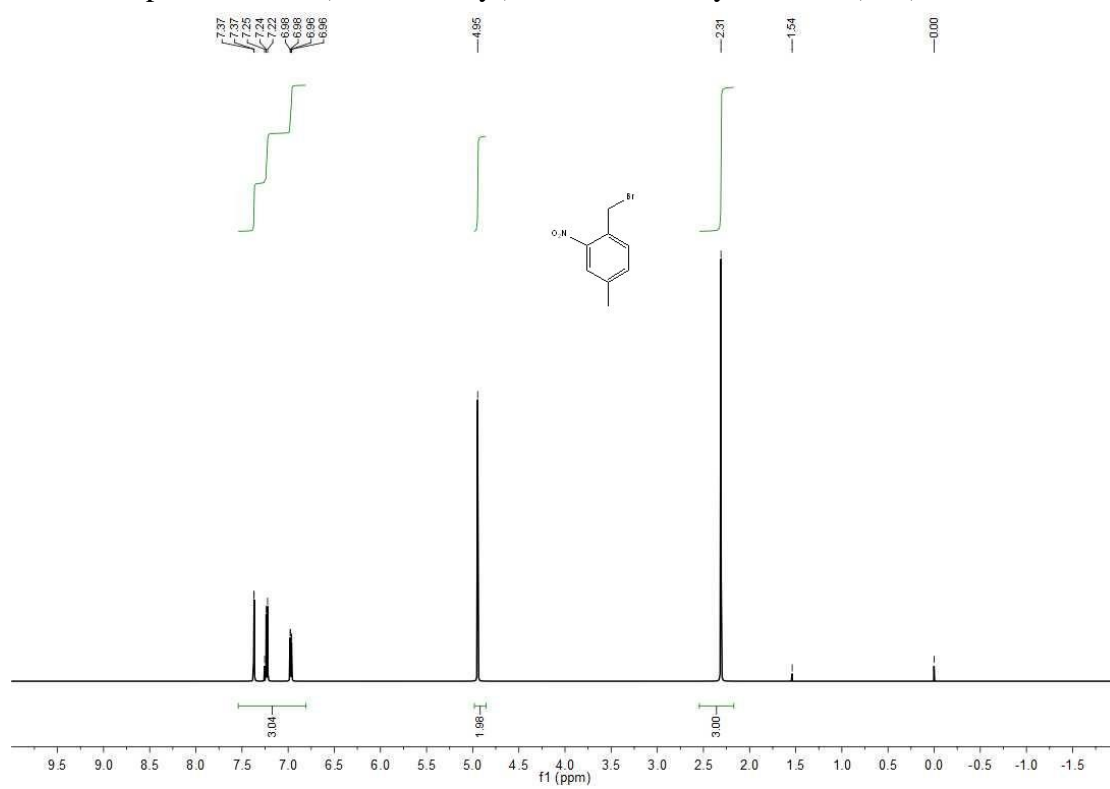
$^1\text{H}$  NMR spectrum of 1-(bromomethyl)-2-chloro-4-methylbenzene (**6a**)



$^1\text{H}$  NMR spectrum of 1-(bromomethyl)-2-bromo-4-methylbenzene (**8a**)

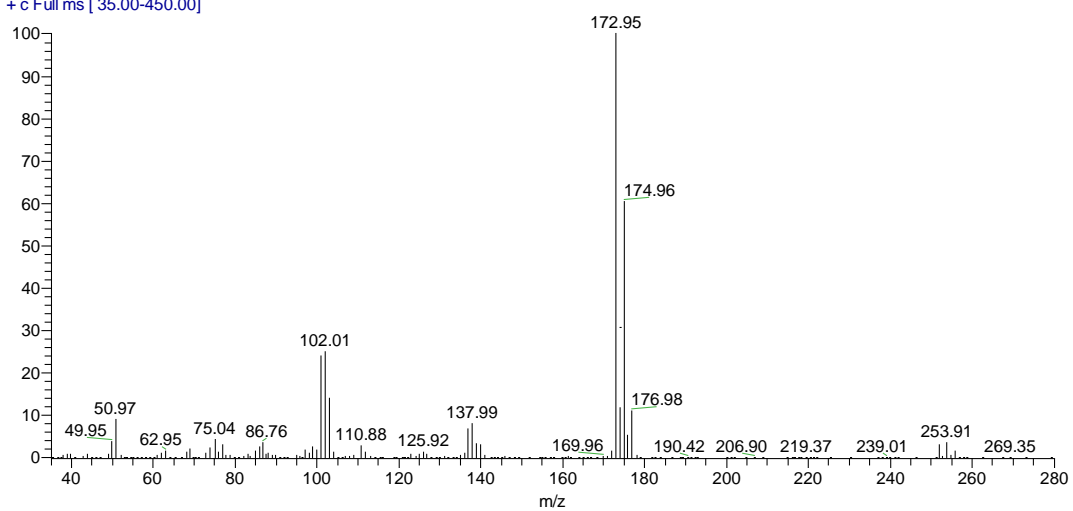


<sup>1</sup>H NMR spectrum of 1-(bromomethyl)-2-nitro-4-methylbenzene (**10a**)

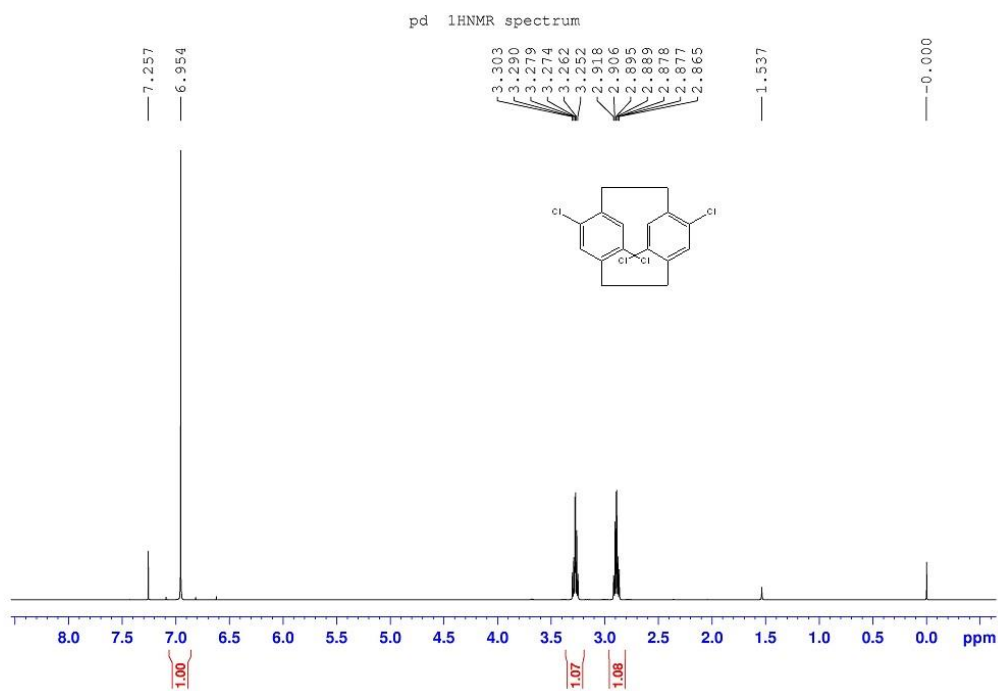


# Mass spectrum of 1-(bromomethyl)-2,5-dichloro-4-methylbenzene (**2a**)

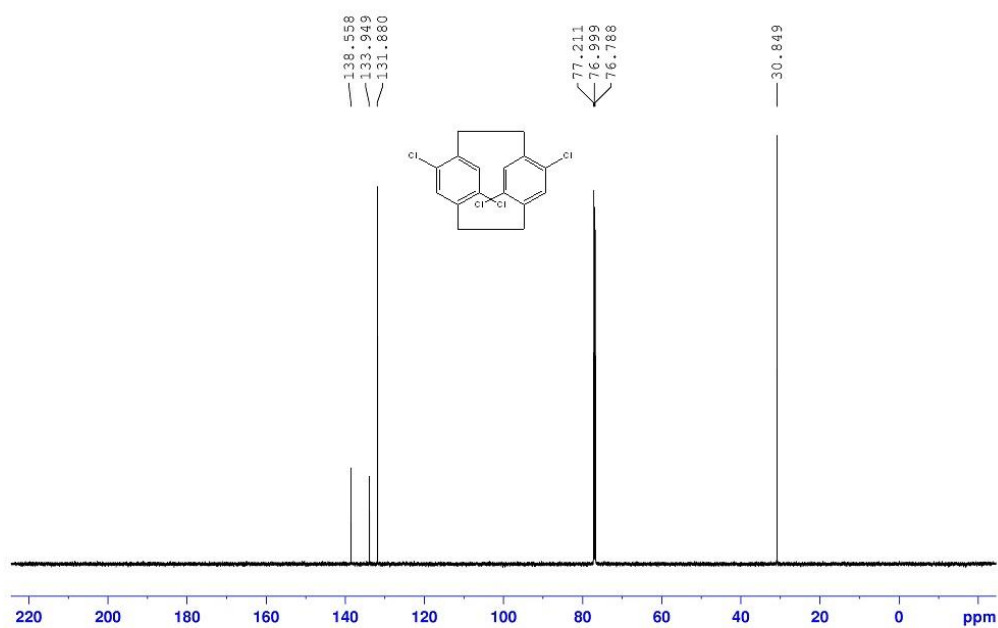
T: + c Full ms [ 35.00-450.00]



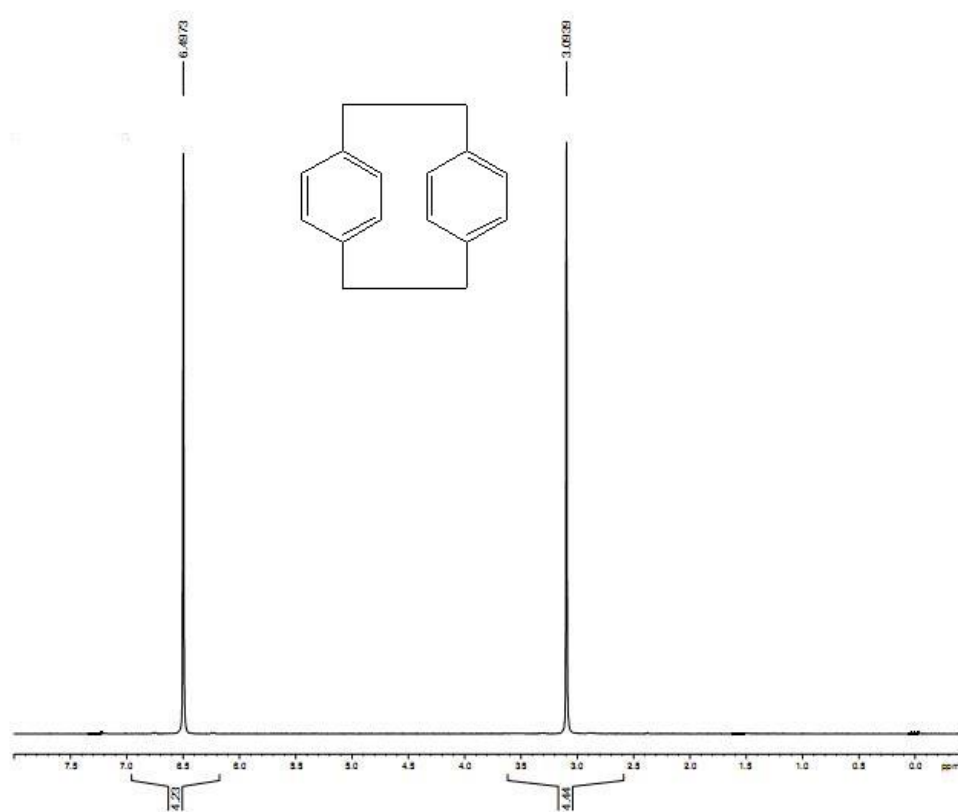
$^1\text{H}$  NMR spectrum of 4,7,12,15-tetrachloro[2.2]paracyclophane (**16**)



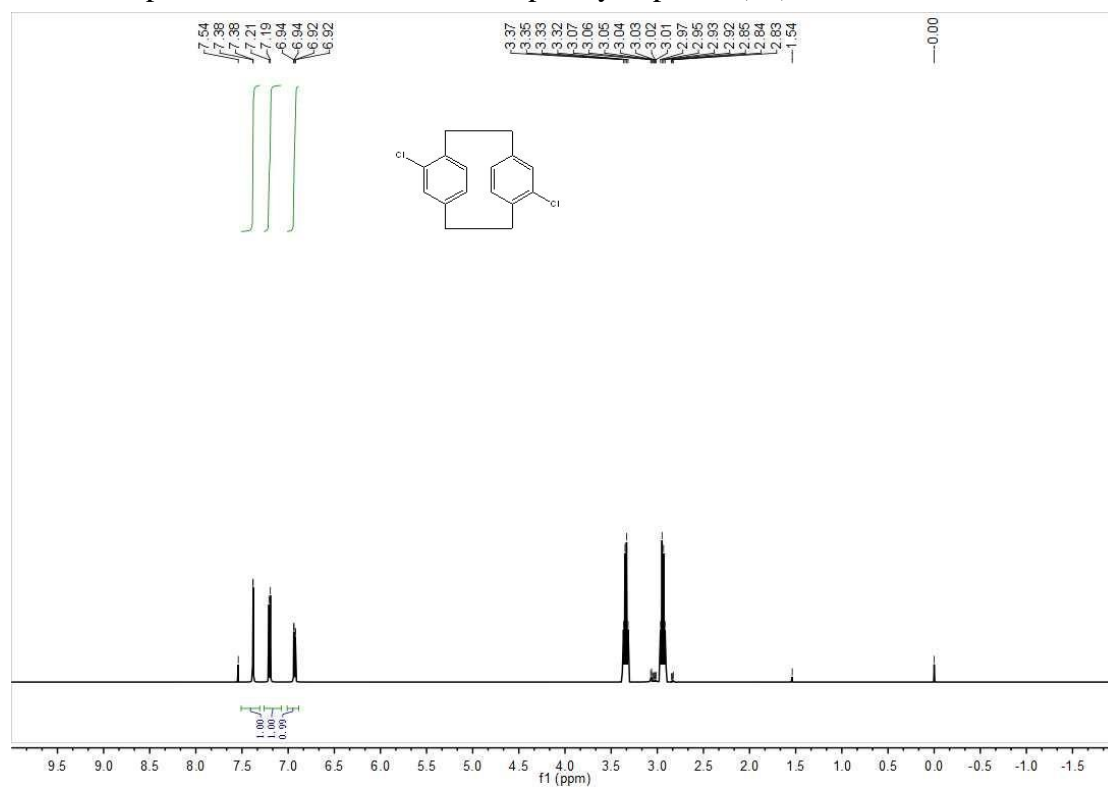
$^{13}\text{C}$  NMR spectrum of 4,7,12,15-tetrachloro[2.2]paracyclophane (**16**)



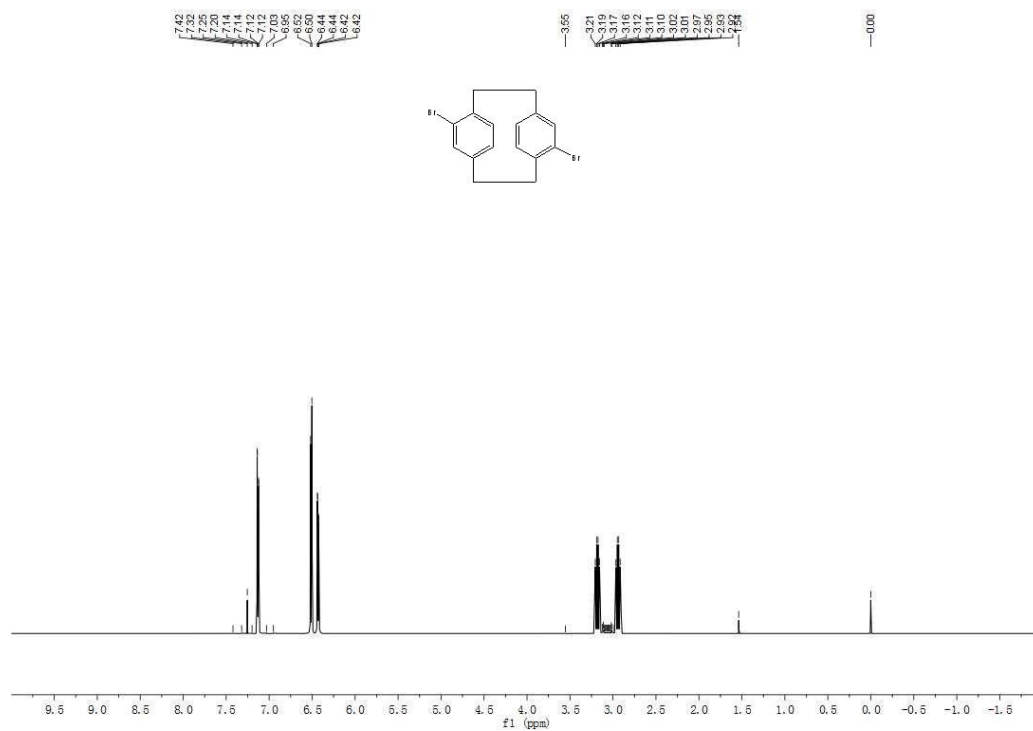
$^1\text{H}$  NMR spectrum of [2.2]paracyclophane (**17**)



$^1\text{H}$  NMR spectrum of 4,16-dichloro[2.2]paracyclophane (**18**)



$^1\text{H}$  NMR spectrum of 4,16-dibromo[2.2]paracyclophane (**19**)



$^1\text{H}$  NMR spectrum of 4,16-dinitro[2.2]paracyclophane (**20**)

