

Supporting Information 2

N-Functionalization of α -aminophosphonates; Cytotoxic effect of the new derivatives

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b. Eötvös Loránd Research Network (ELKH), Research Group of Peptide Chemistry, Eötvös Loránd University, H-1117 Budapest, Hungary

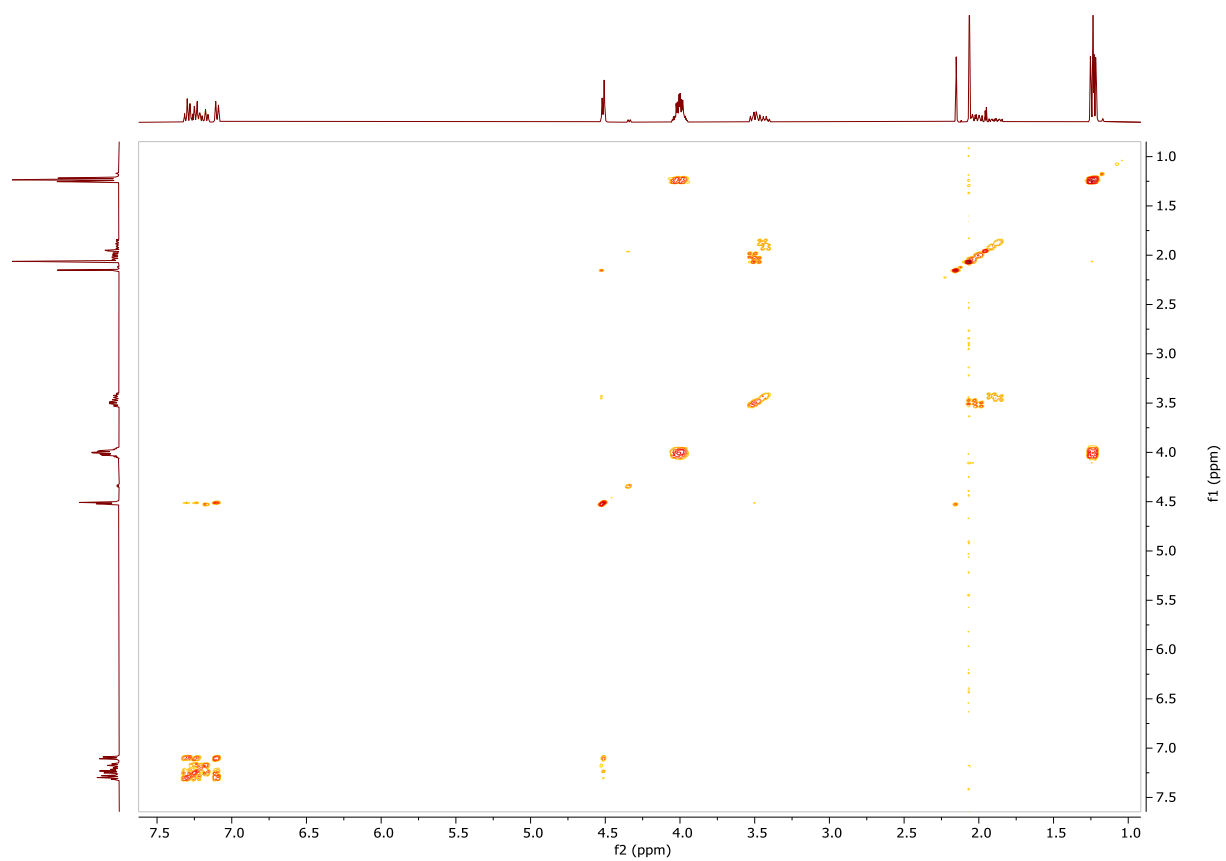
c. Department of Genetics, Cell-and Immunobiology, Semmelweis University, Nagyvárad tér 4, H-1089 Budapest, Hungary

d. MS Proteomics Research Group, Research Centre for Natural Sciences, H-1117 Budapest, Hungary

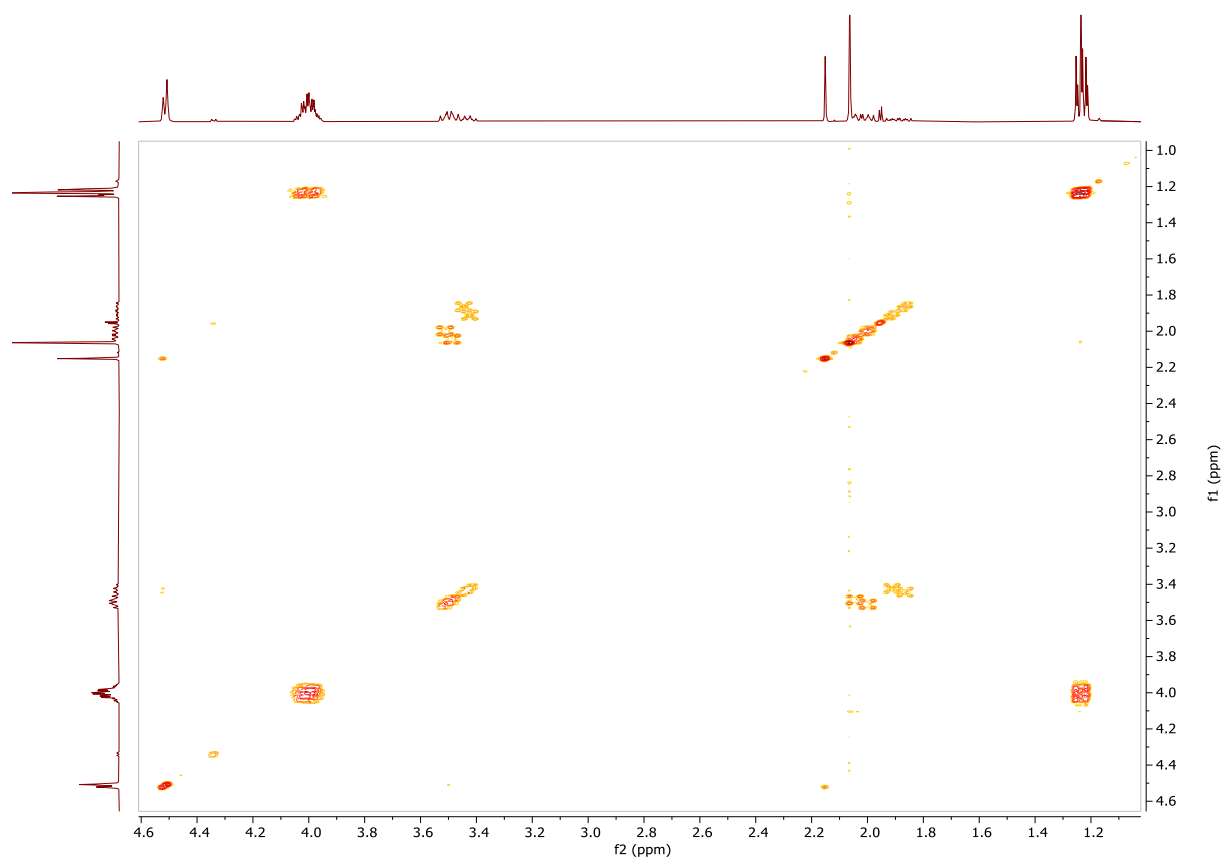
e. Department Chemie, Ludwig-Maximilians-Universität München, Butenandtstr. 5-13, D-81377 München, Germany. E-mail: konstantin.karaghiosoff@cup.uni-muenchen.de

2D NMR spectra for 7a, 7b, 8a, 8b and 9a

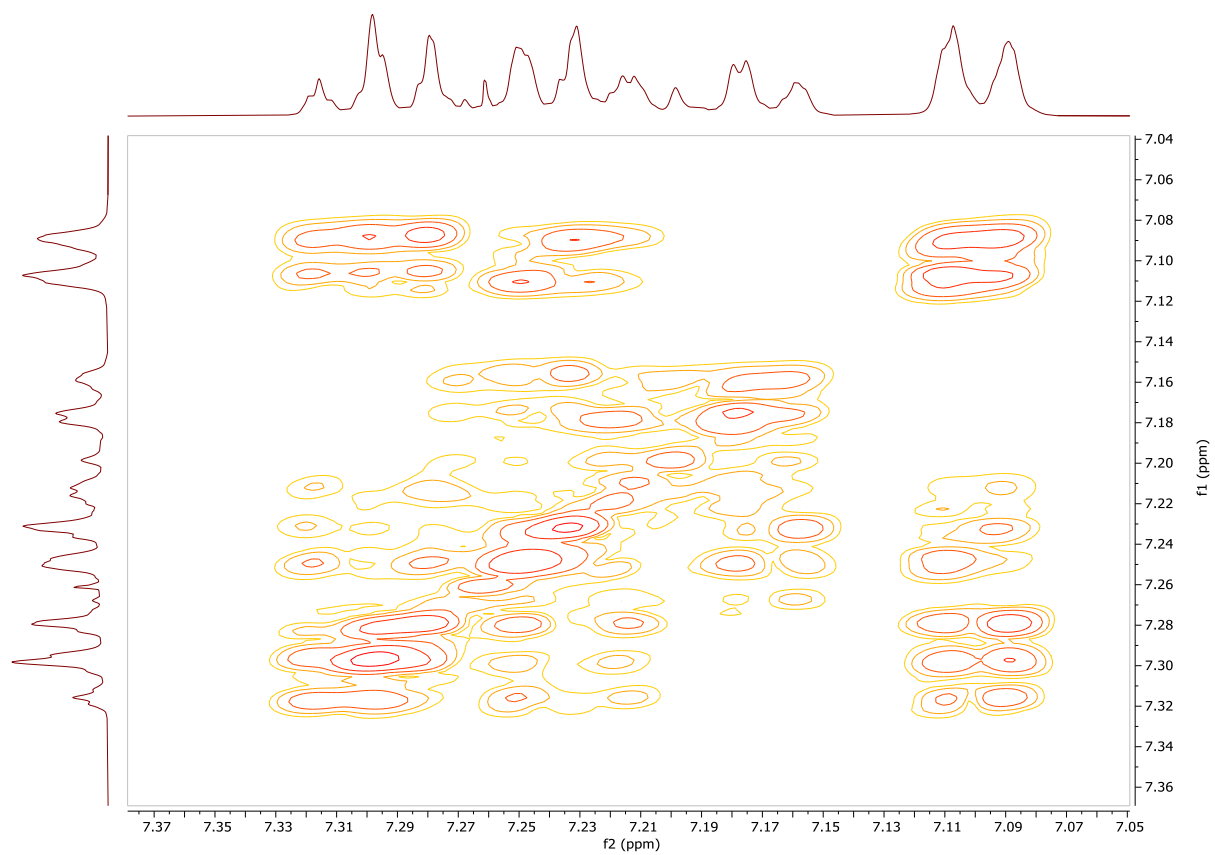
$^1\text{H}, ^1\text{H}$ COSY in CDCl_3 for **7a**



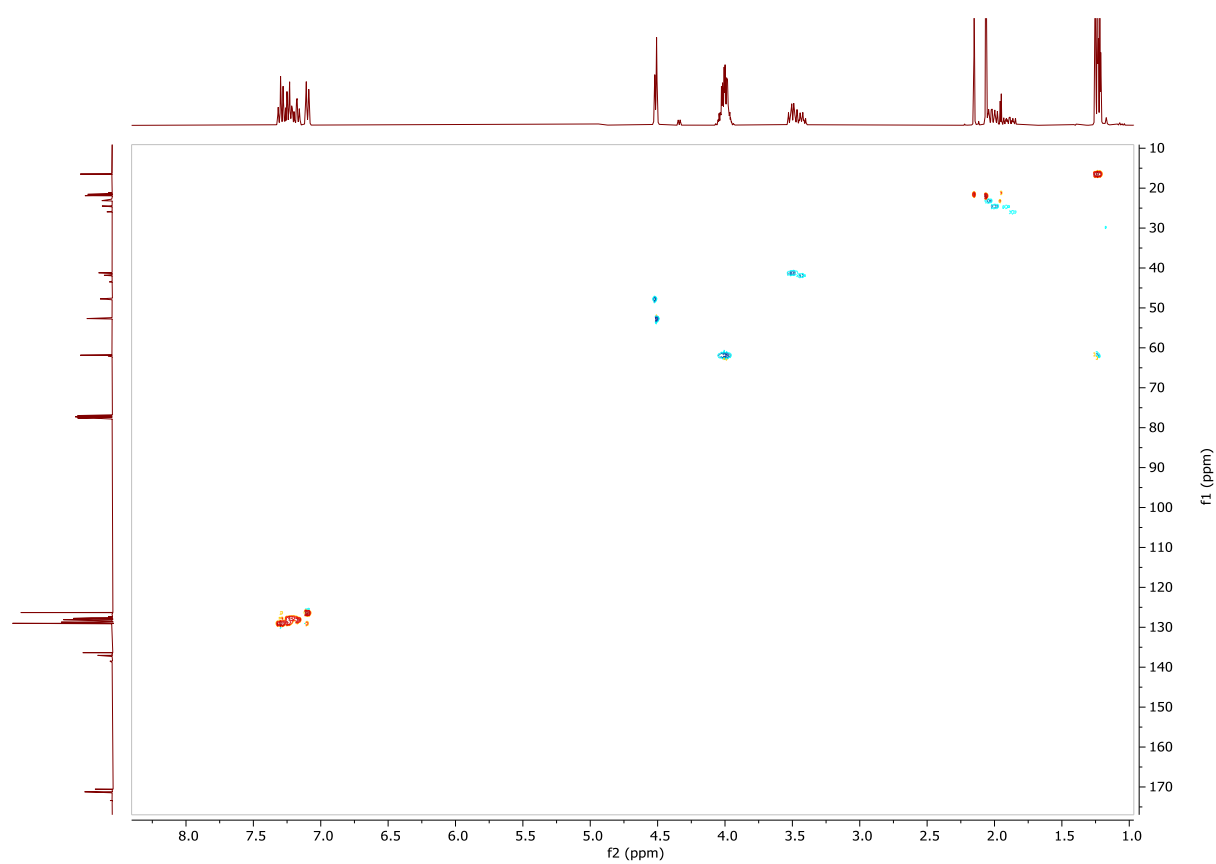
$^1\text{H}, ^1\text{H}$ COSY in CDCl_3 for **7a** (zoomed in)



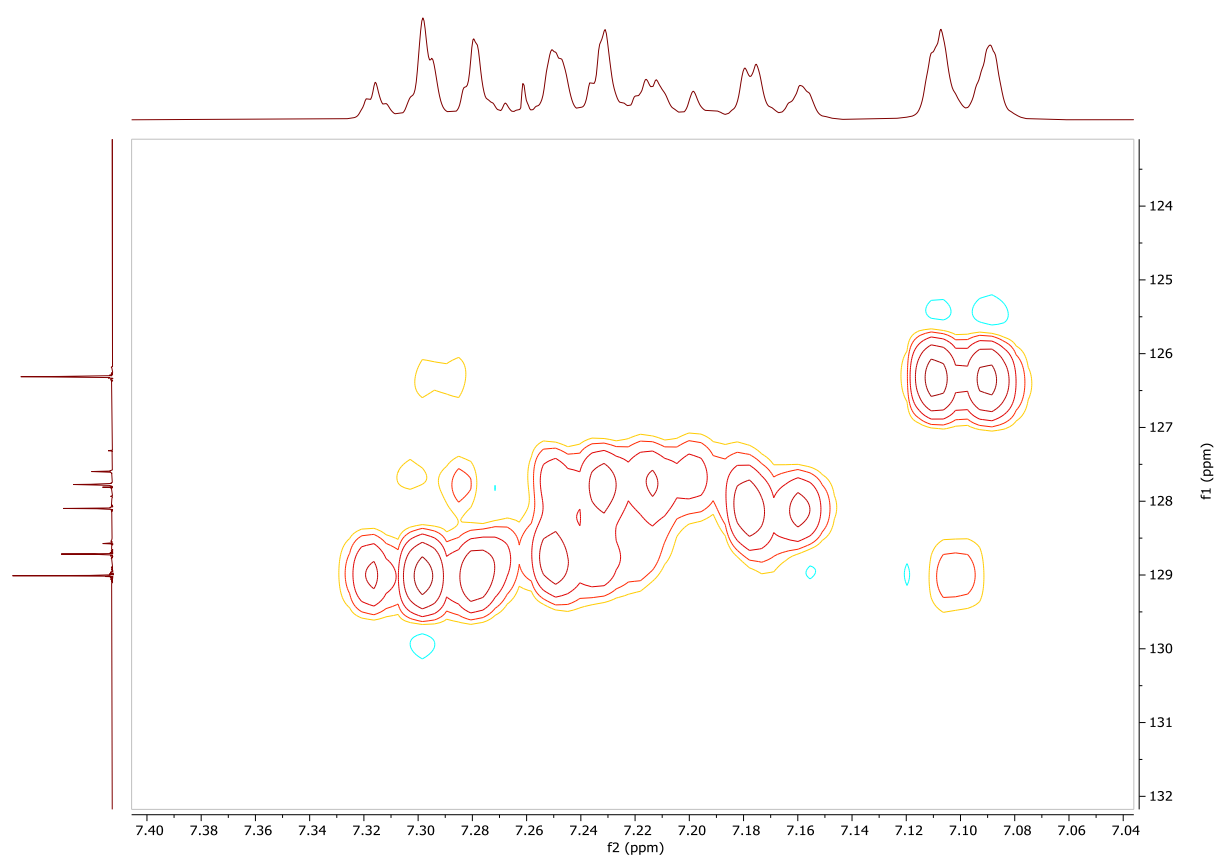
$^1\text{H}, ^1\text{H}$ COSY in CDCl_3 for **7a** (zoomed in)



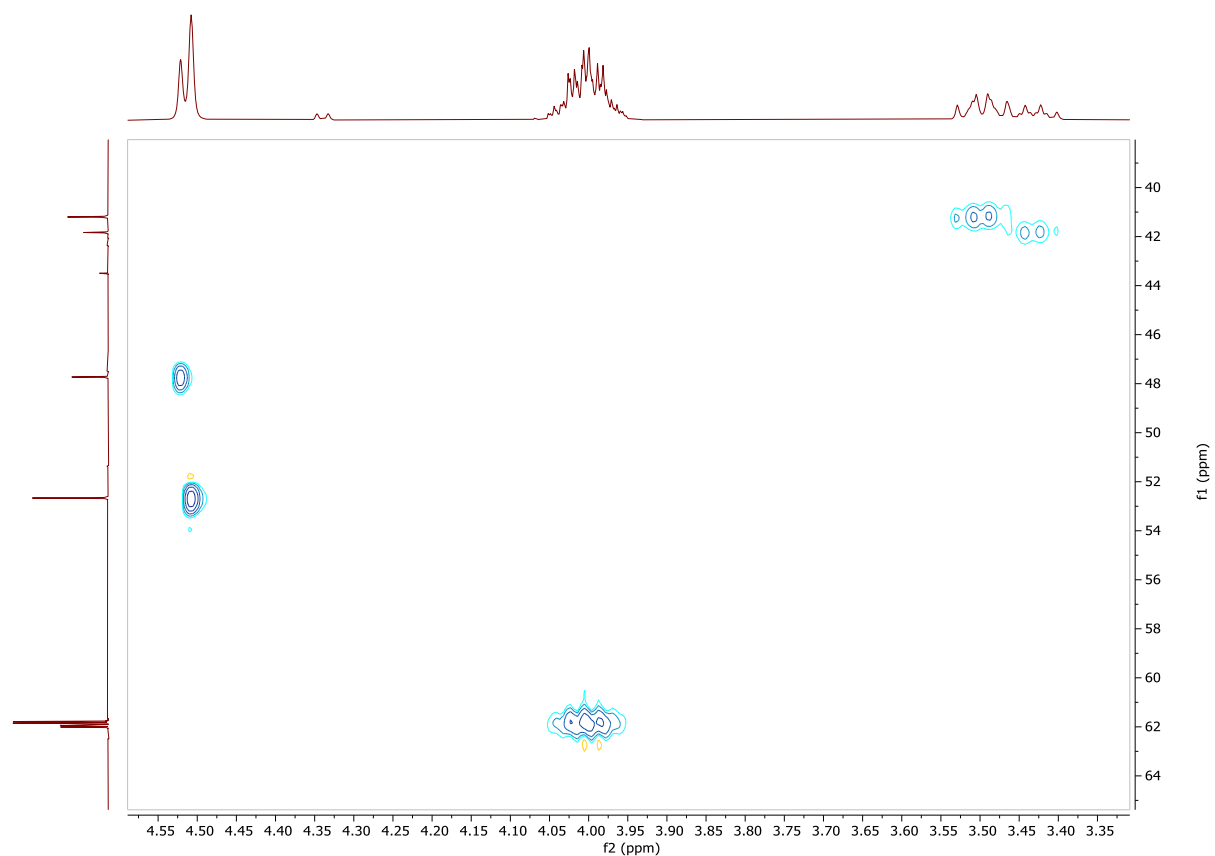
^1H , ^{13}C HSQC in CDCl_3 for **7a**



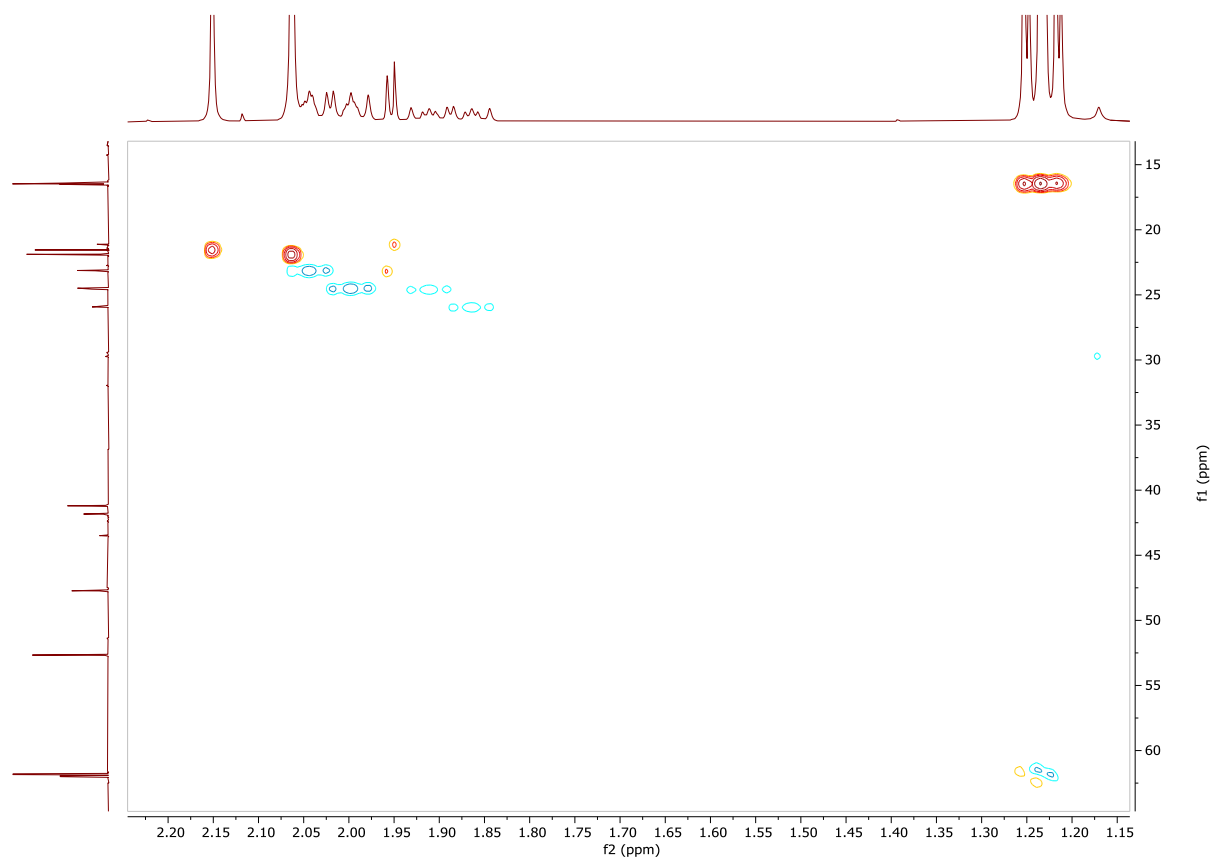
^1H , ^{13}C HSQC in CDCl_3 for **7a** (zoomed in)



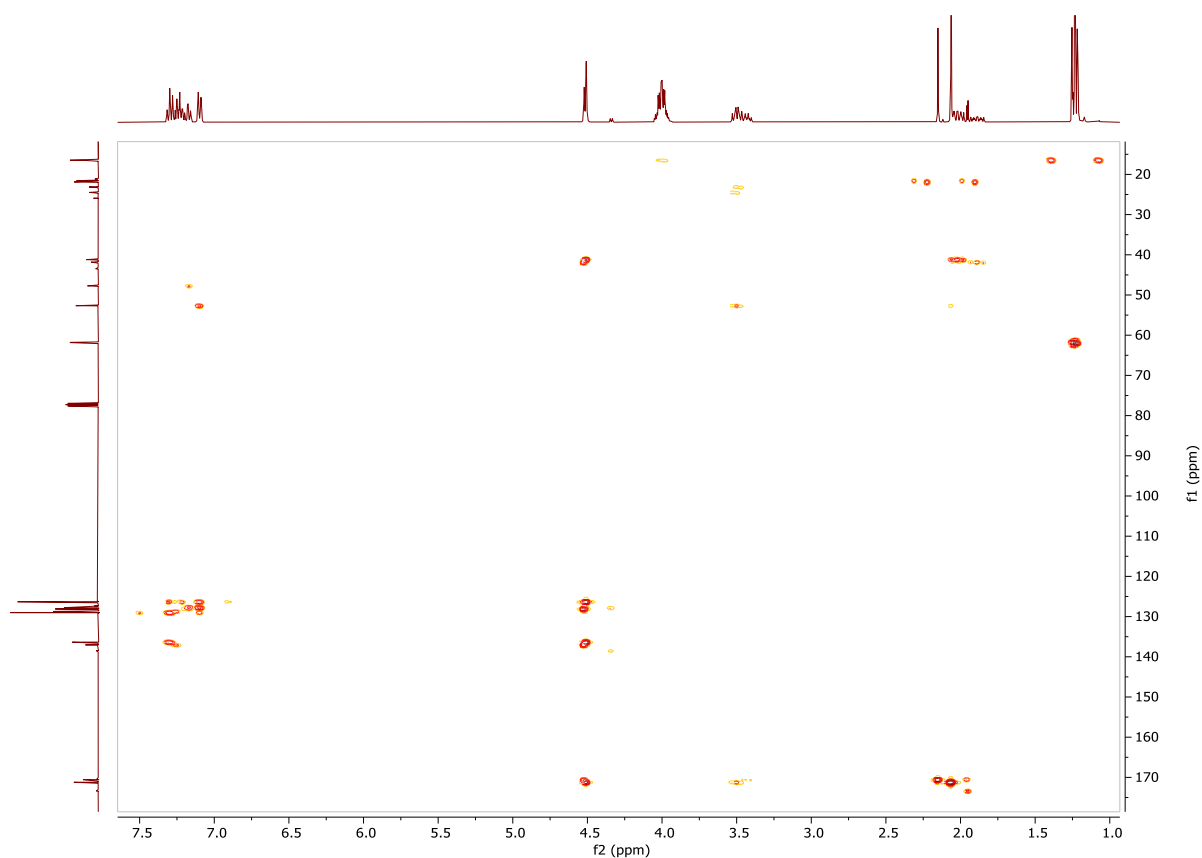
^1H , ^{13}C HSQC in CDCl_3 for **7a** (zoomed in)



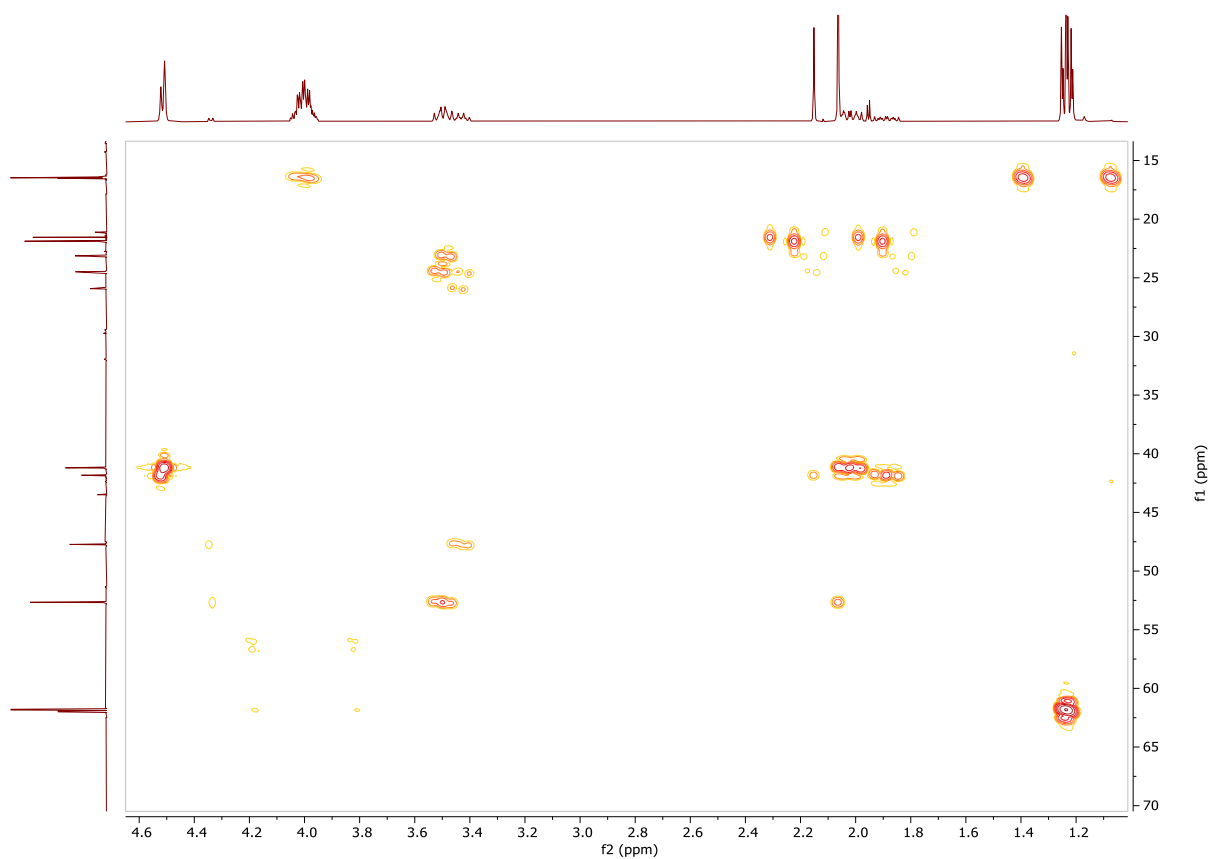
^1H , ^{13}C HSQC in CDCl_3 for **7a** (zoomed in)



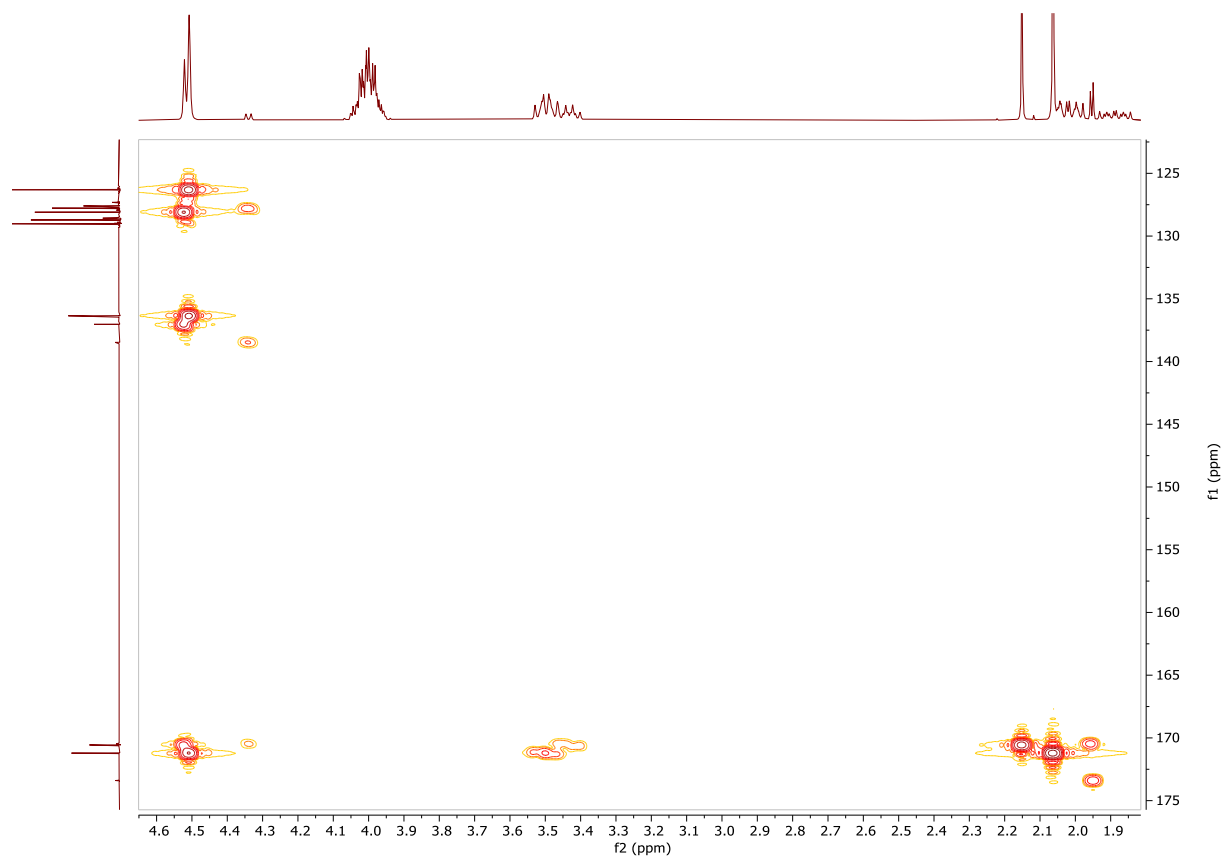
^1H , ^{13}C HMBC in CDCl_3 for **7a**



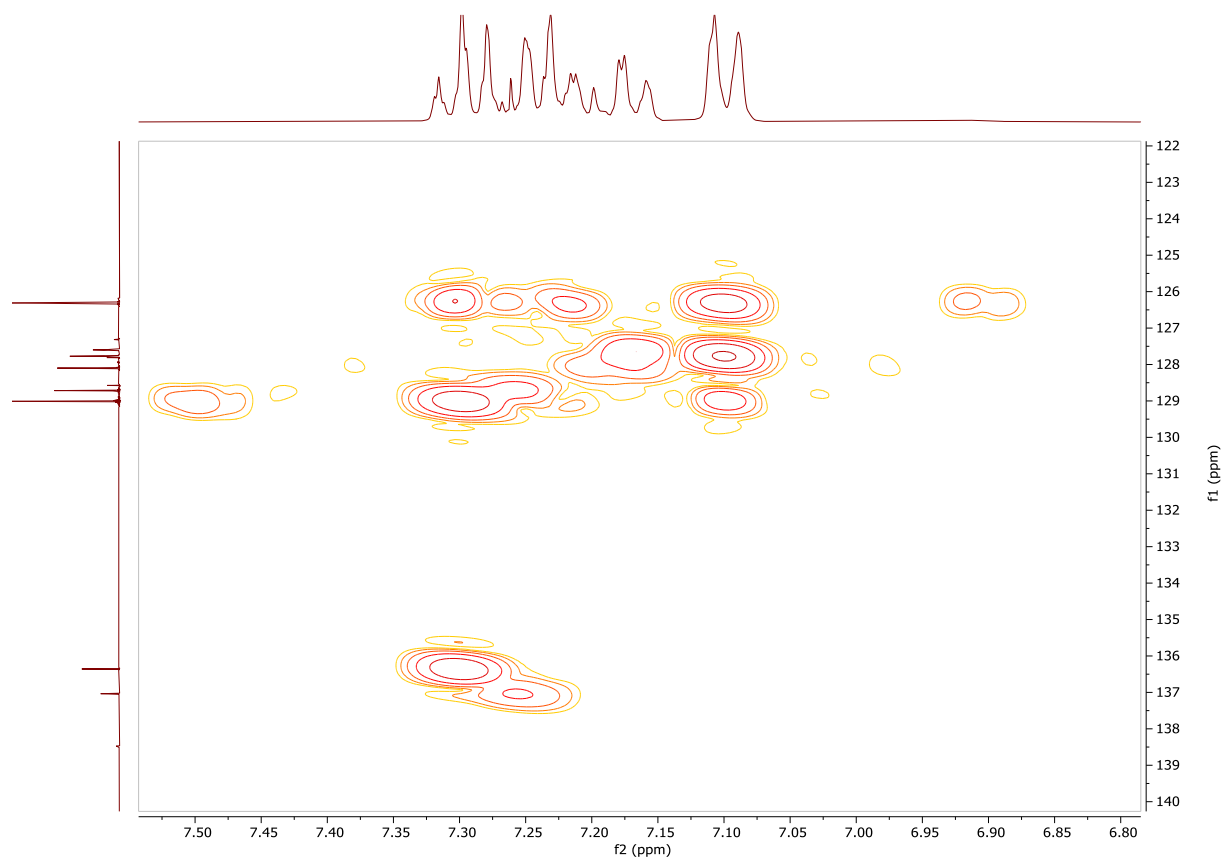
^1H , ^{13}C HMBC in CDCl_3 for **7a** (zoomed in)



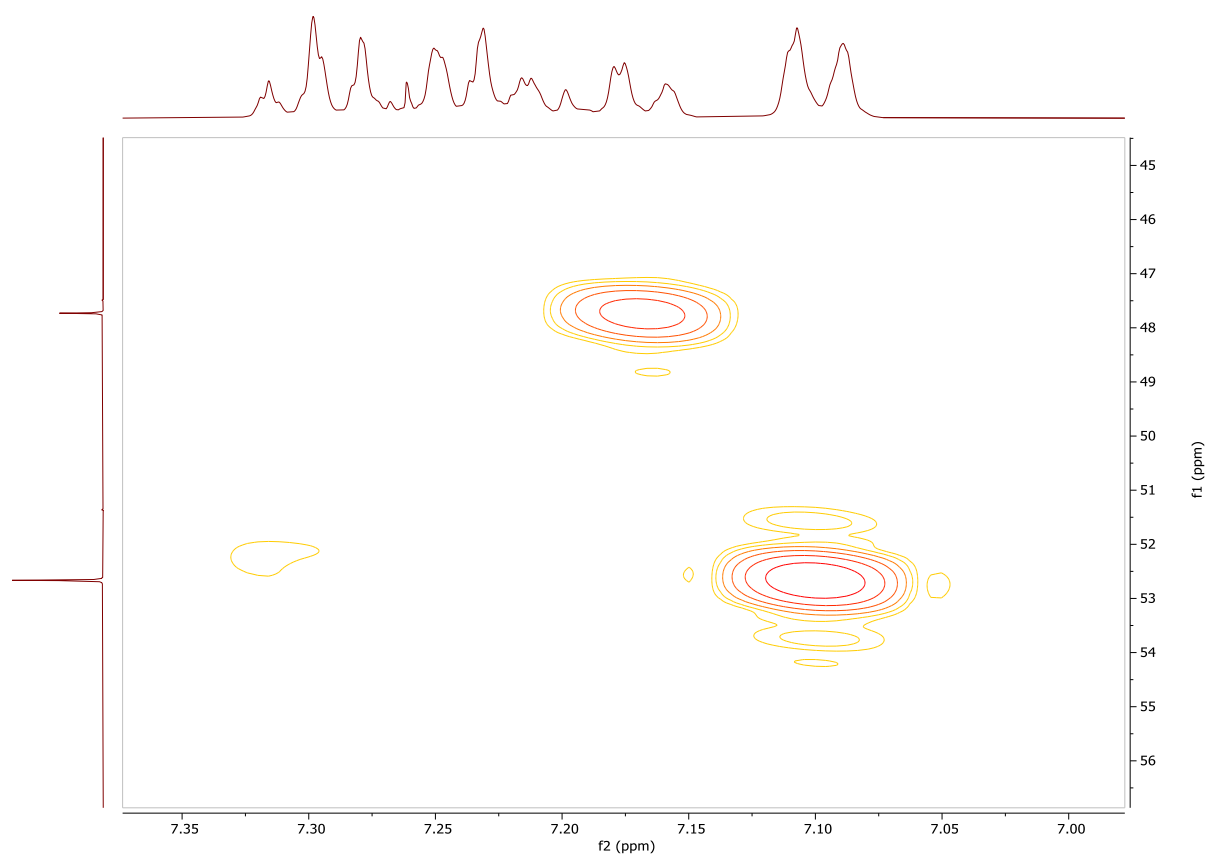
^1H , ^{13}C HMBC in CDCl_3 for **7a** (zoomed in)



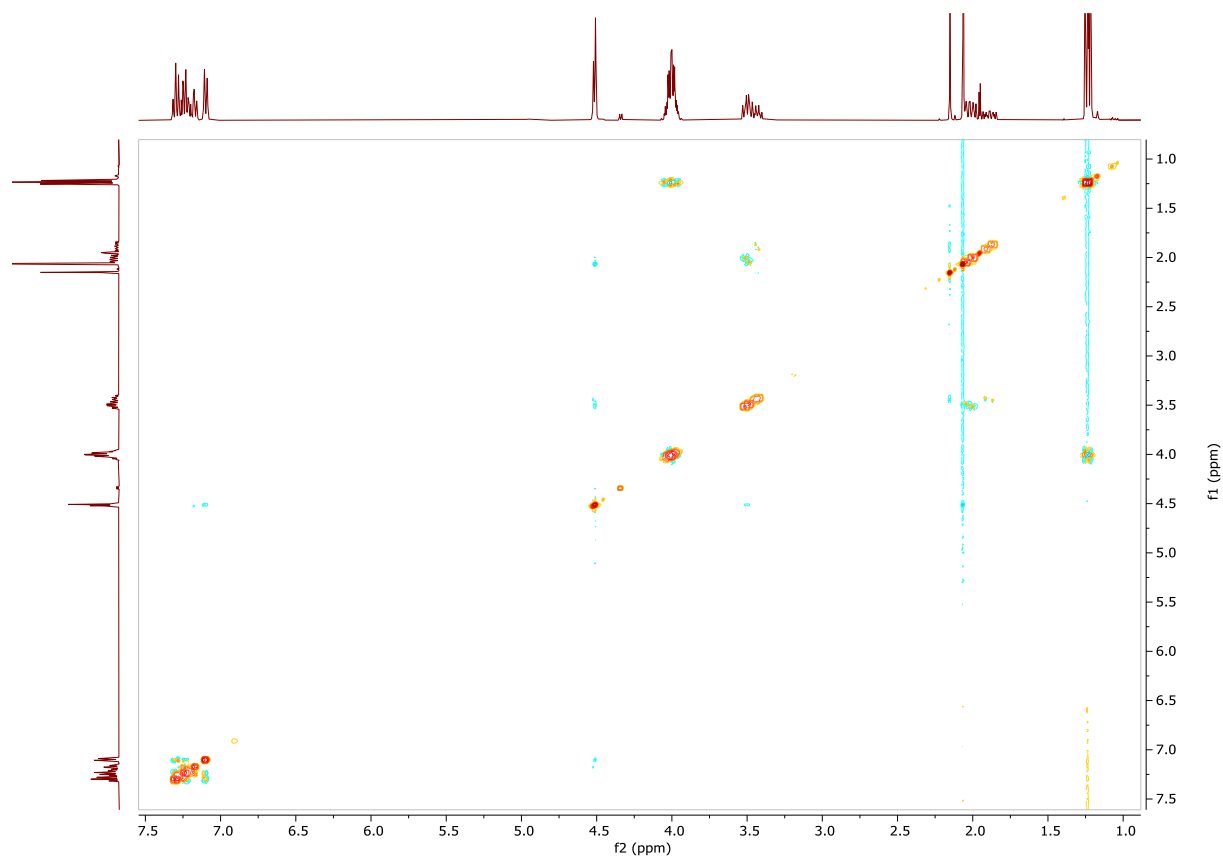
^1H , ^{13}C HMBC in CDCl_3 for **7a** (zoomed in)



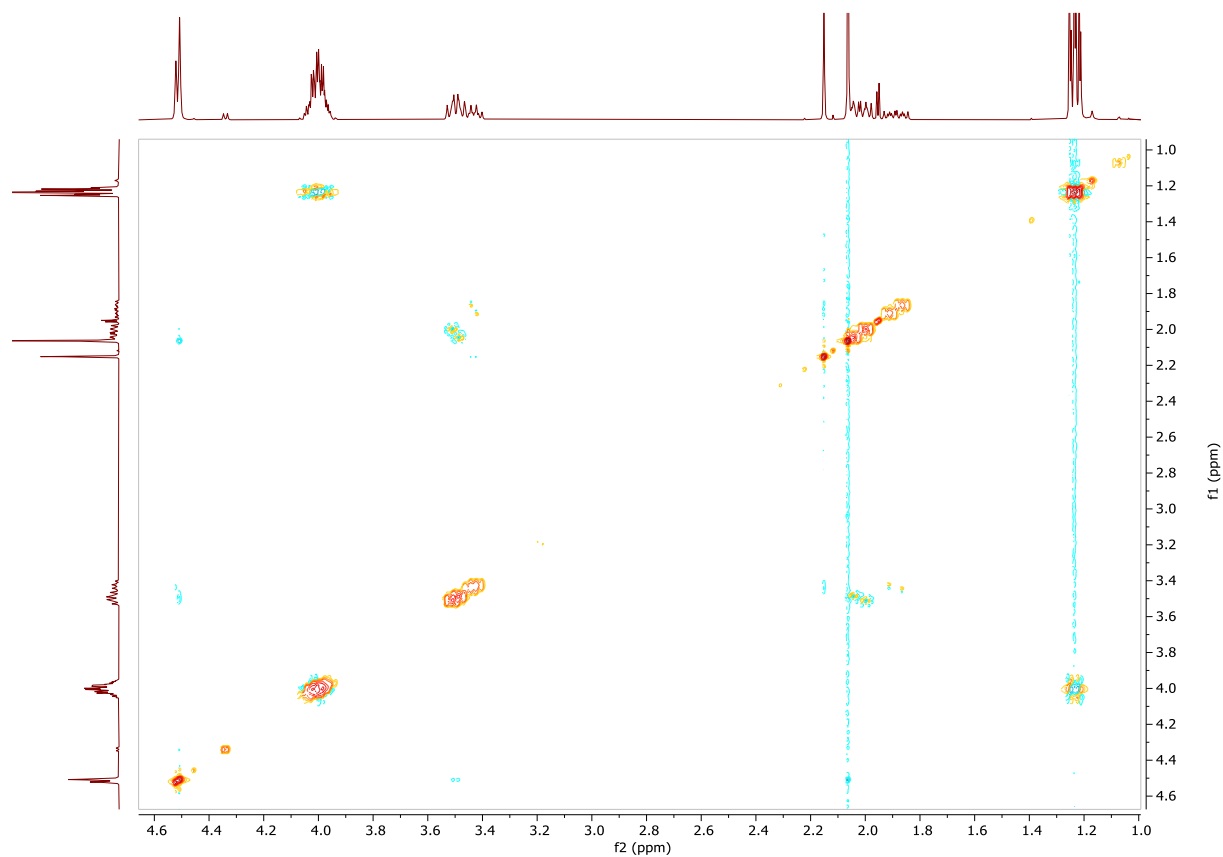
^1H , ^{13}C HMBC in CDCl_3 for **7a** (zoomed in)



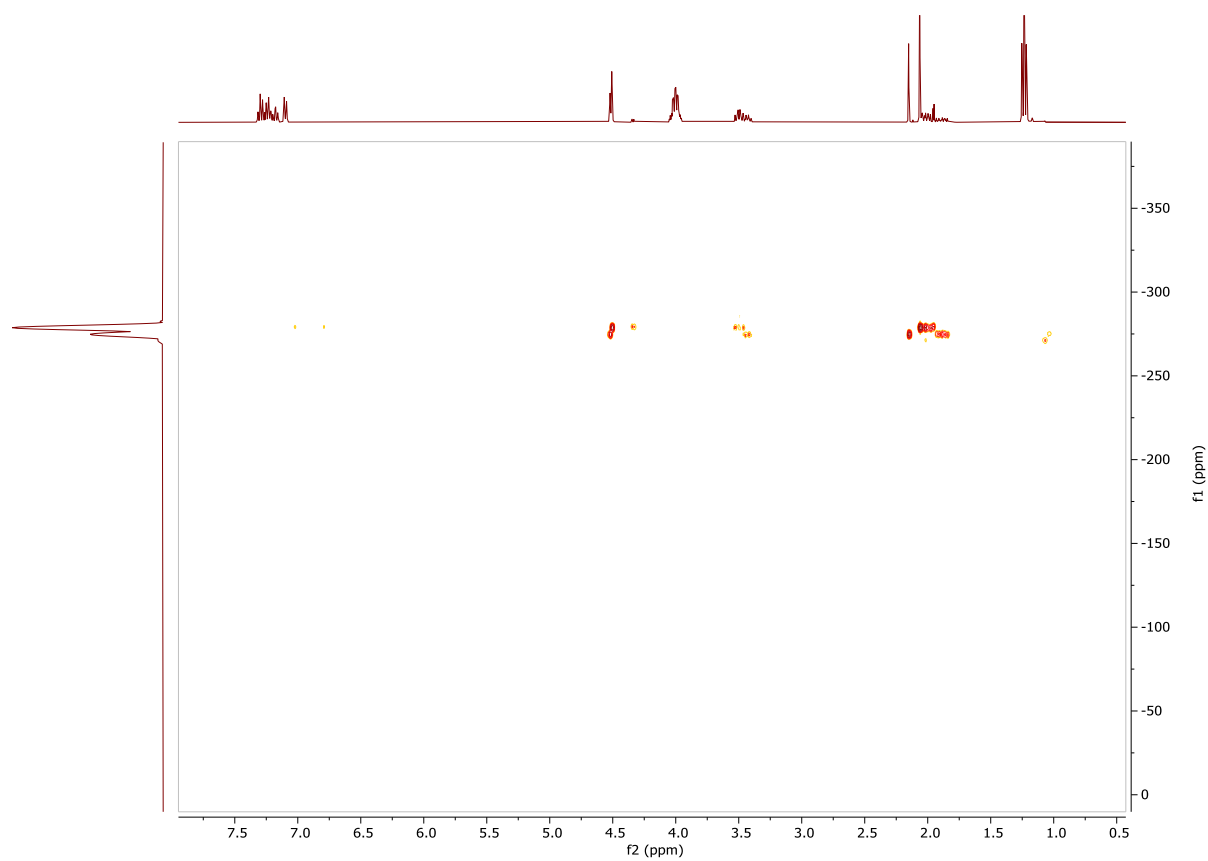
$^1\text{H}, ^1\text{H}$ NOESY in CDCl_3 for **7a**



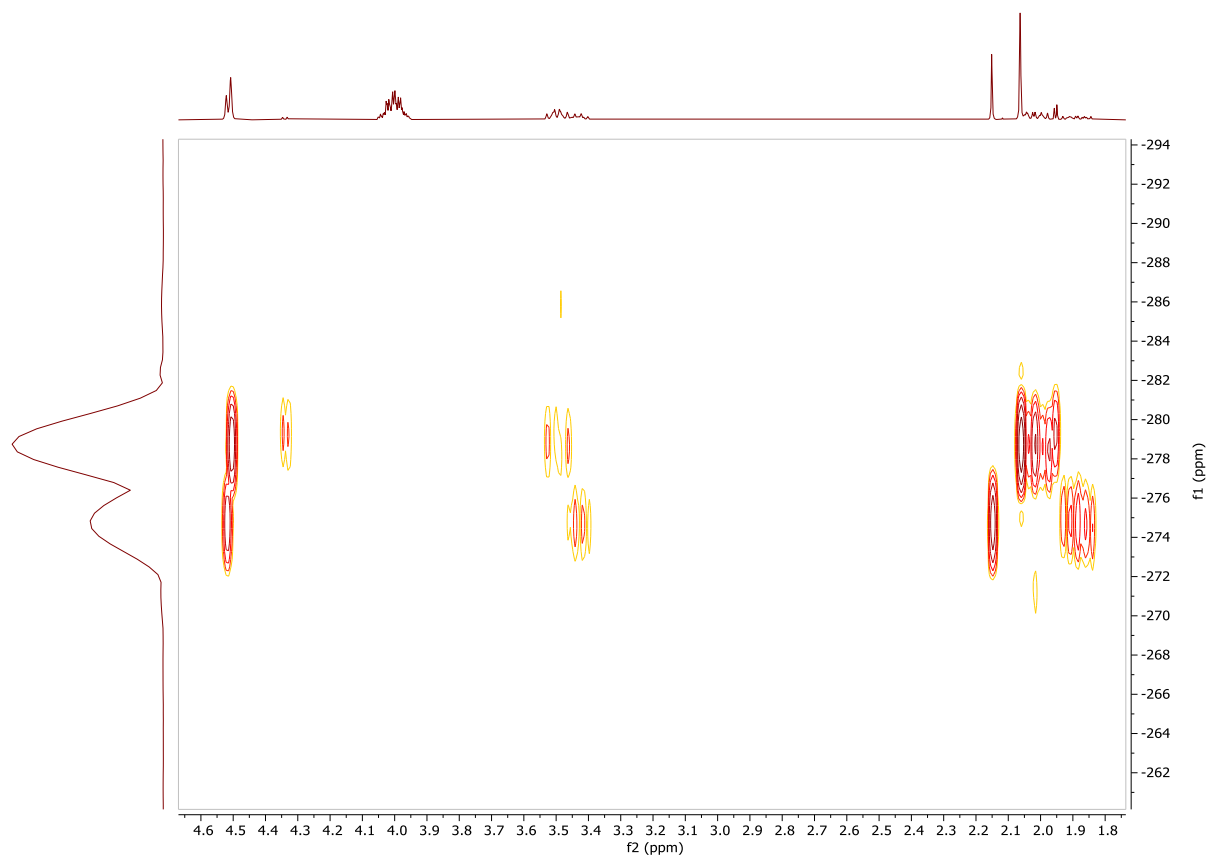
$^1\text{H}, ^1\text{H}$ NOESY in CDCl_3 for **7a** (zoomed in)



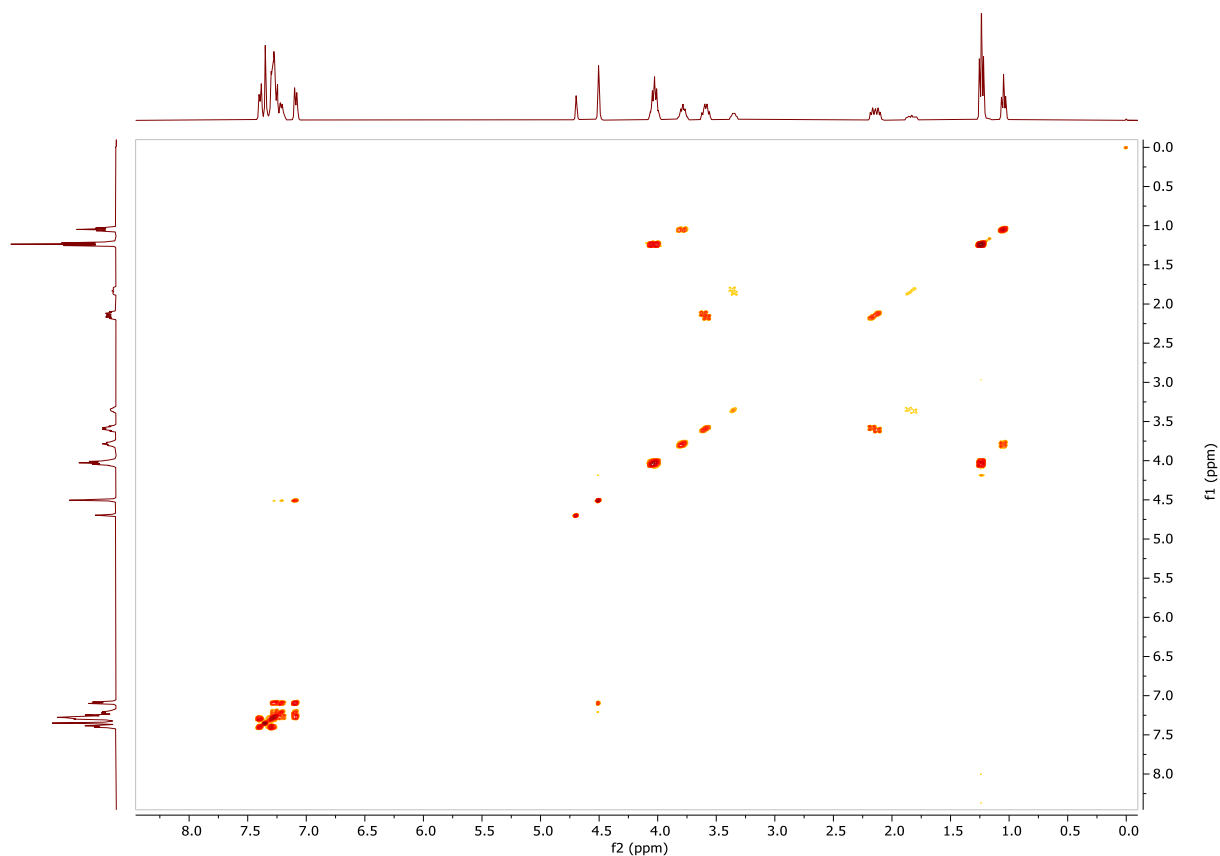
^1H , ^{15}N HMBC in CDCl_3 for **7a**



^1H , ^{15}N HMBC in CDCl_3 for **7a** (zoomed in)



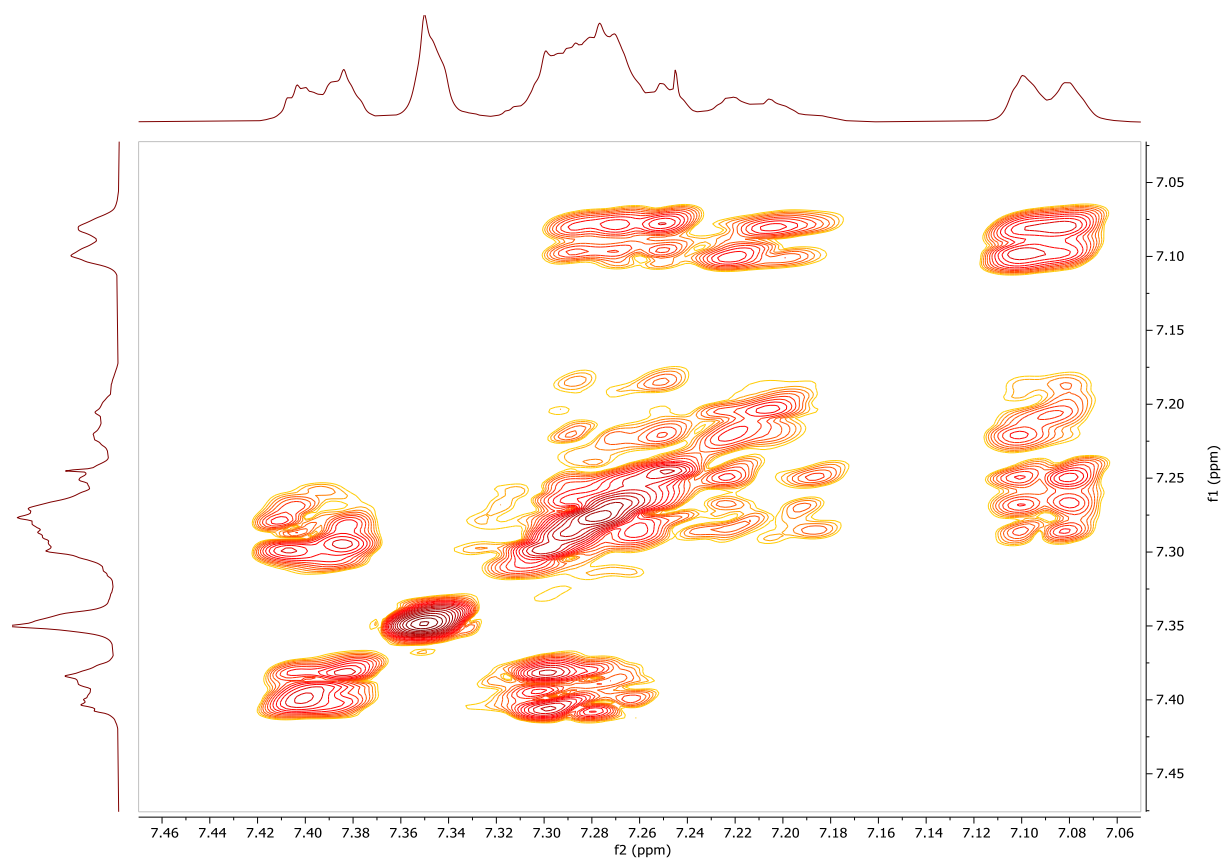
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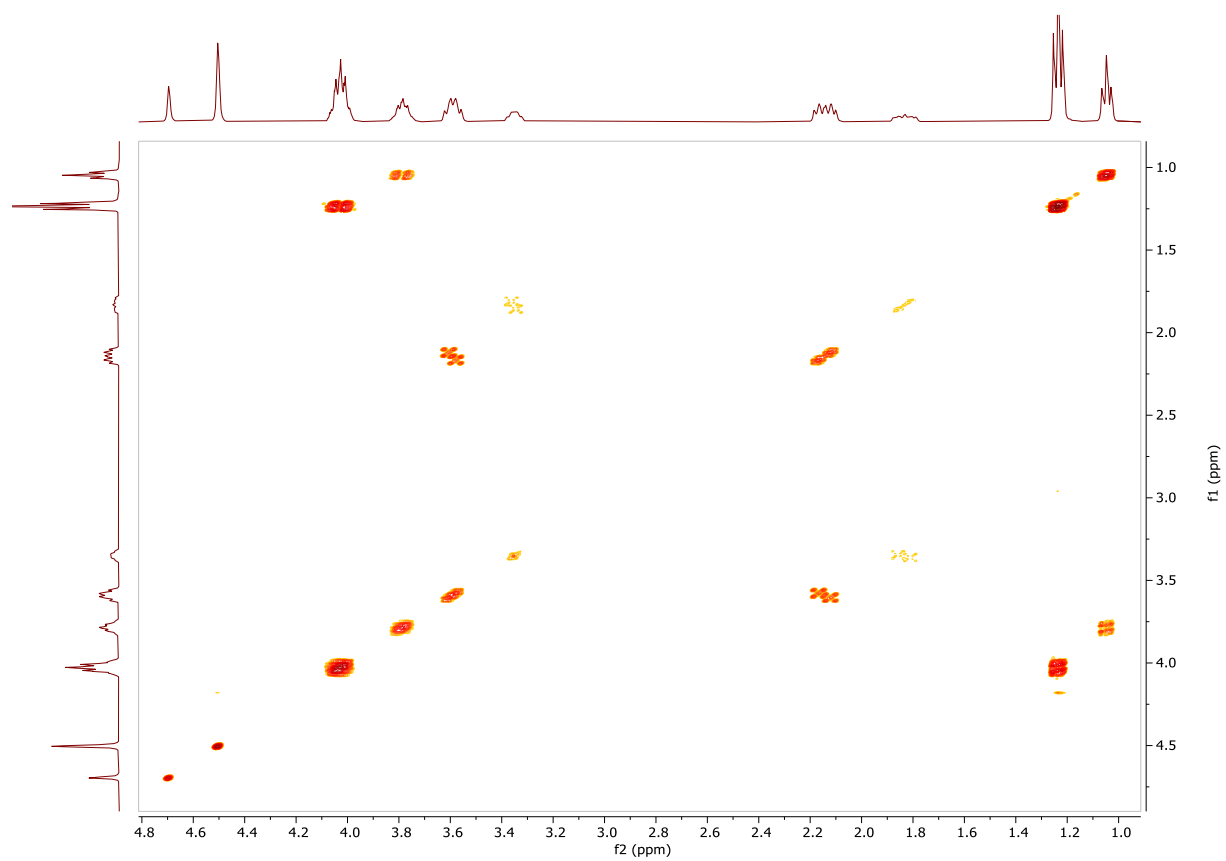
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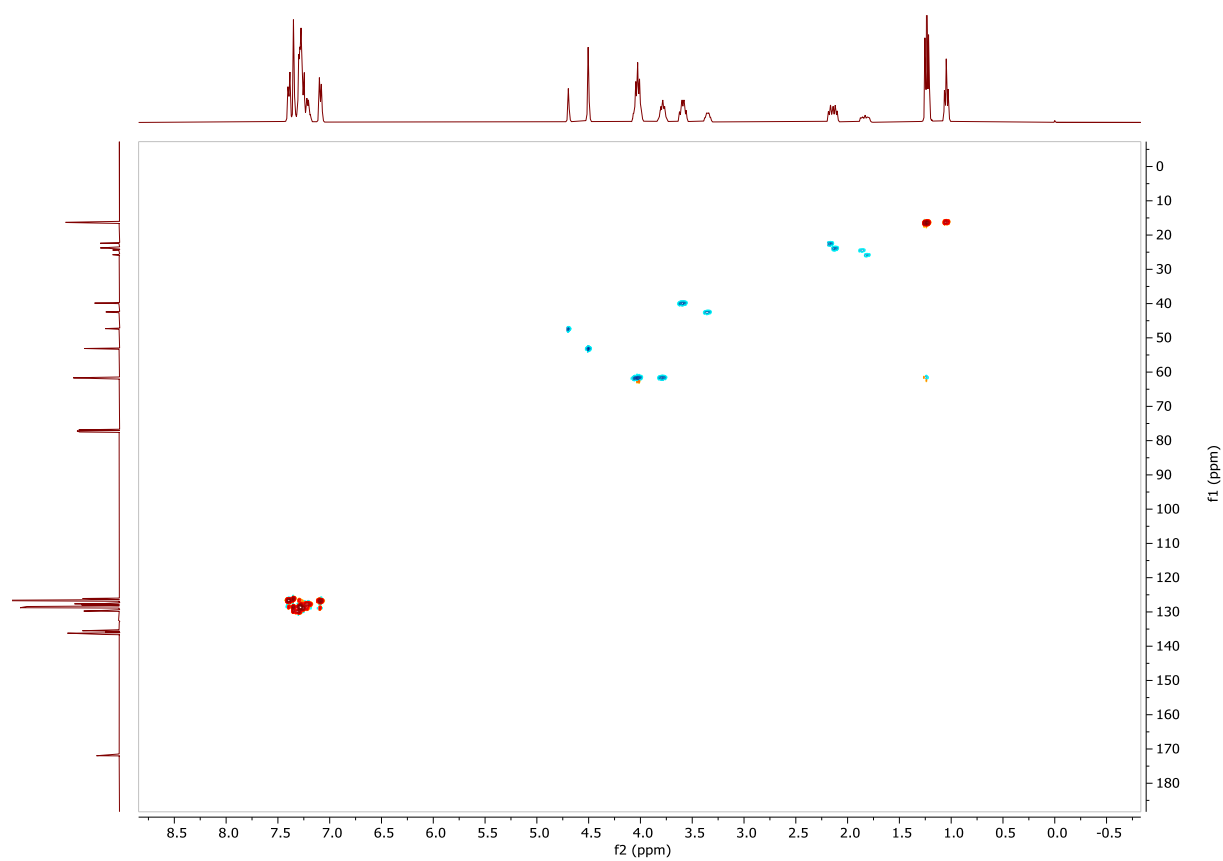
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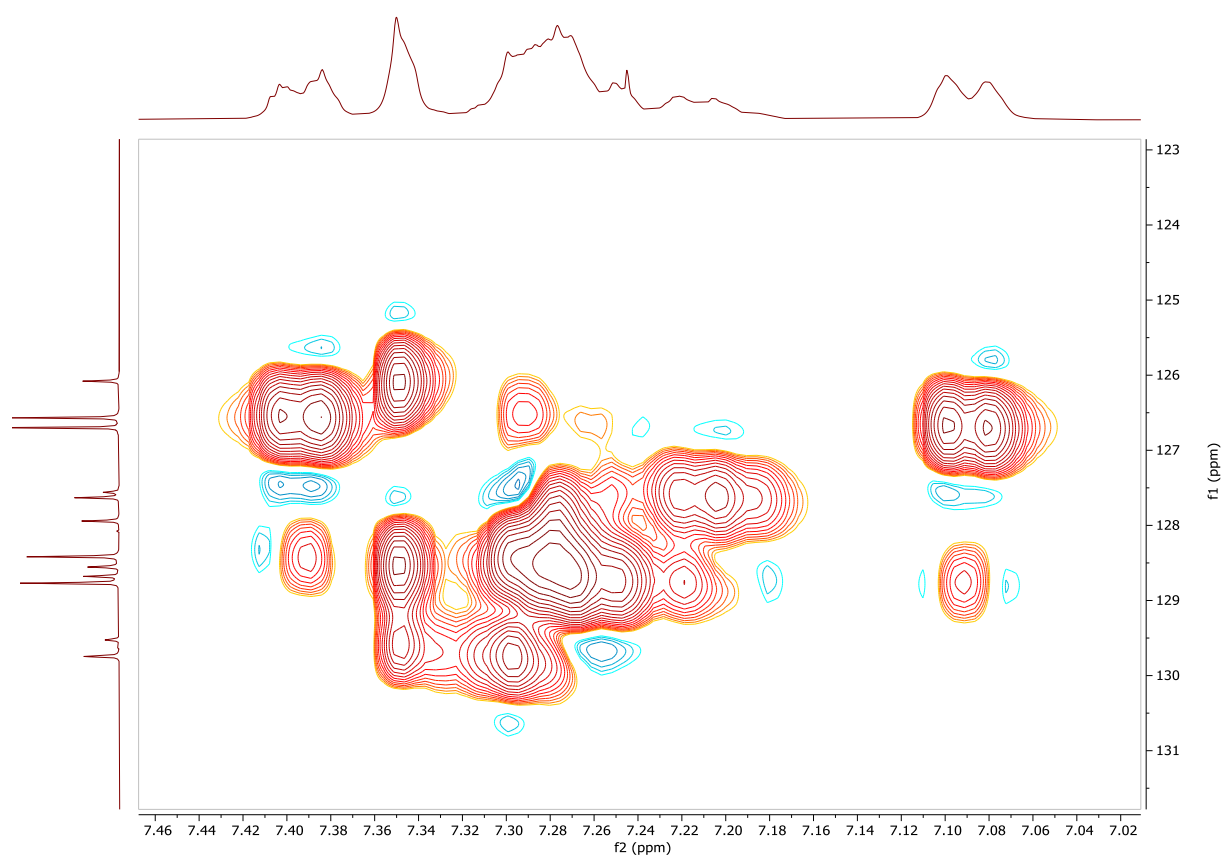
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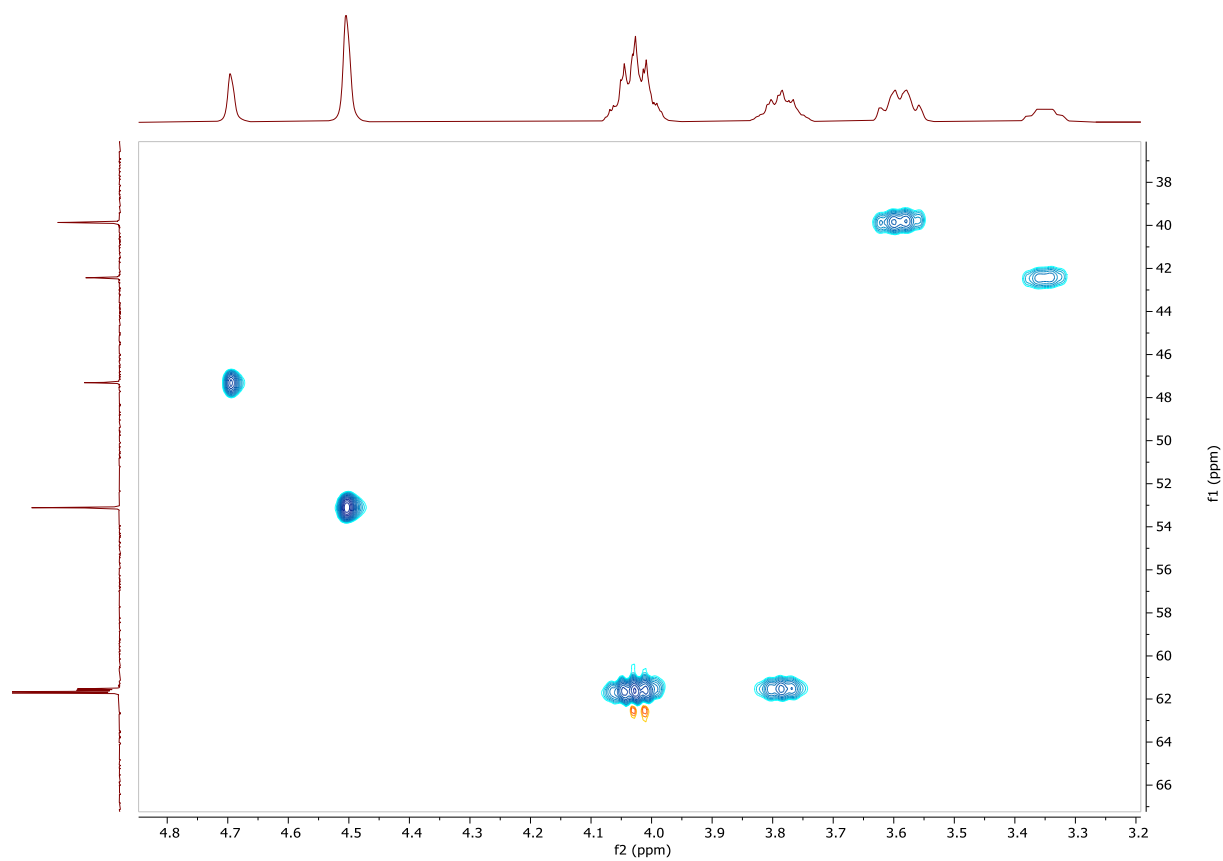
^1H , ^{13}C HSQC in CDCl_3 for **7b**



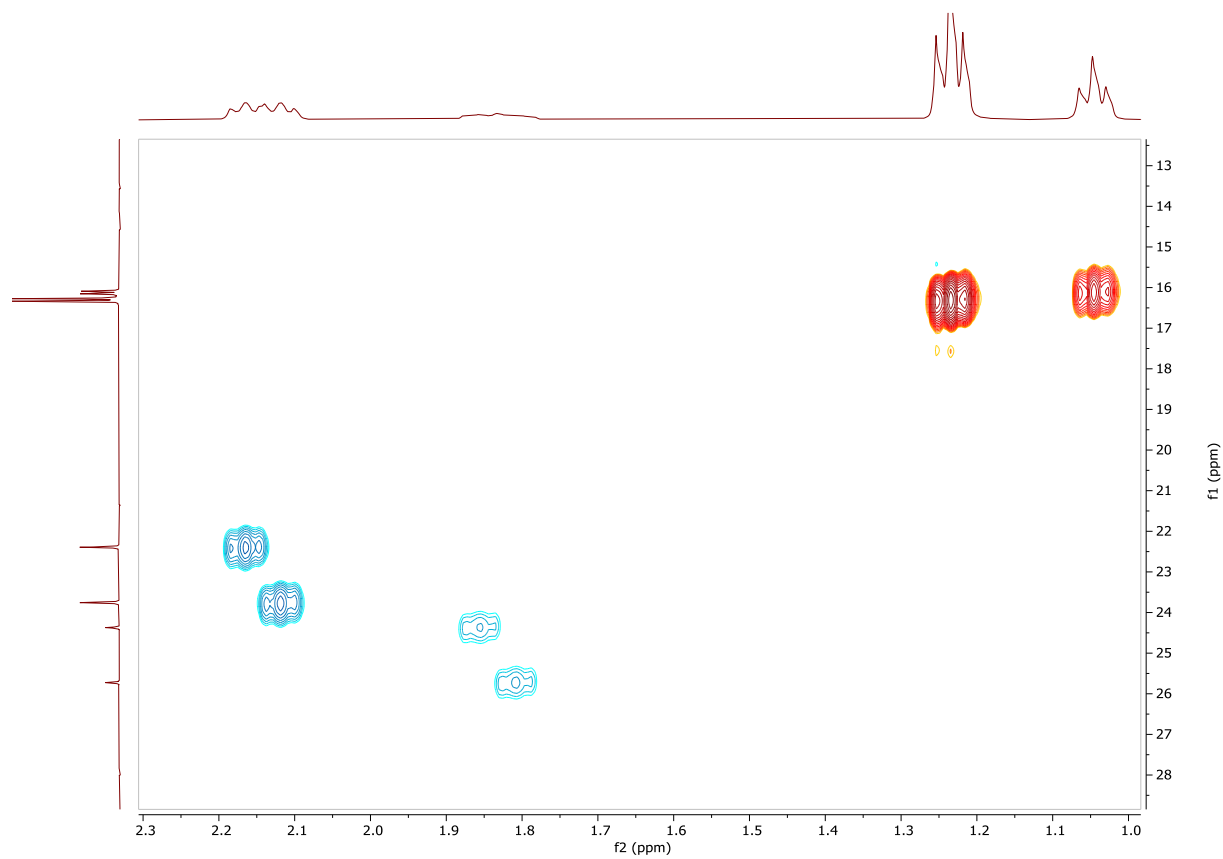
^1H , ^{13}C HSQC in CDCl_3 for **7b** (zoomed in)



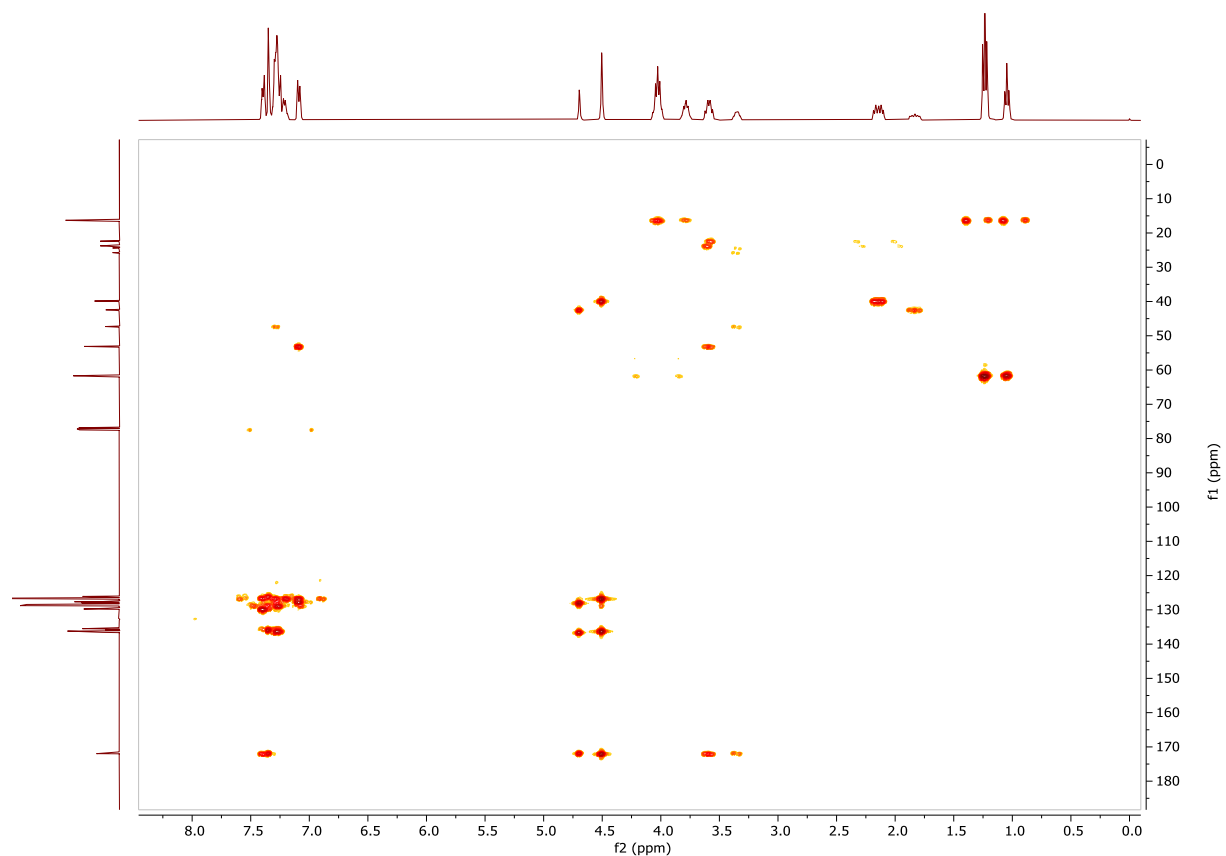
^1H , ^{13}C HSQC in CDCl_3 for **7b** (zoomed in)



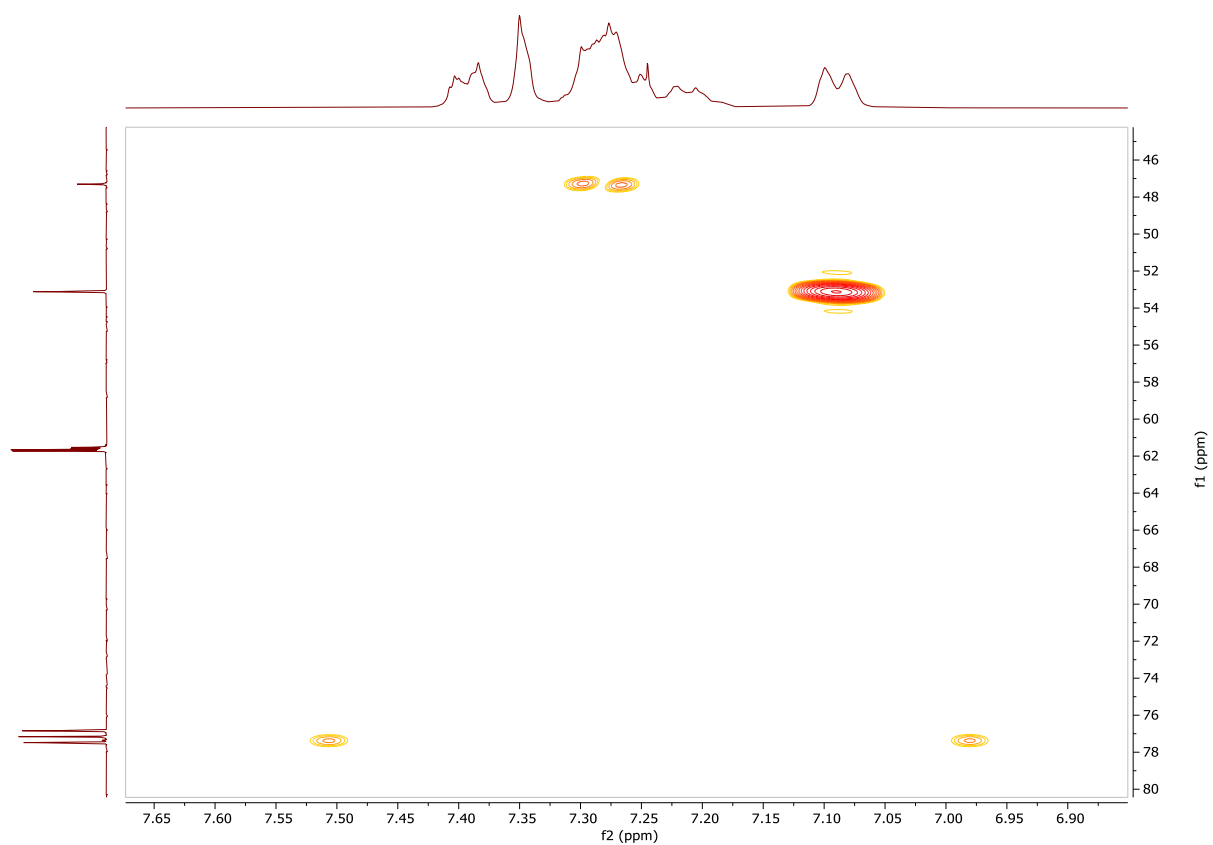
^1H , ^{13}C HSQC in CDCl_3 for **7b** (zoomed in)



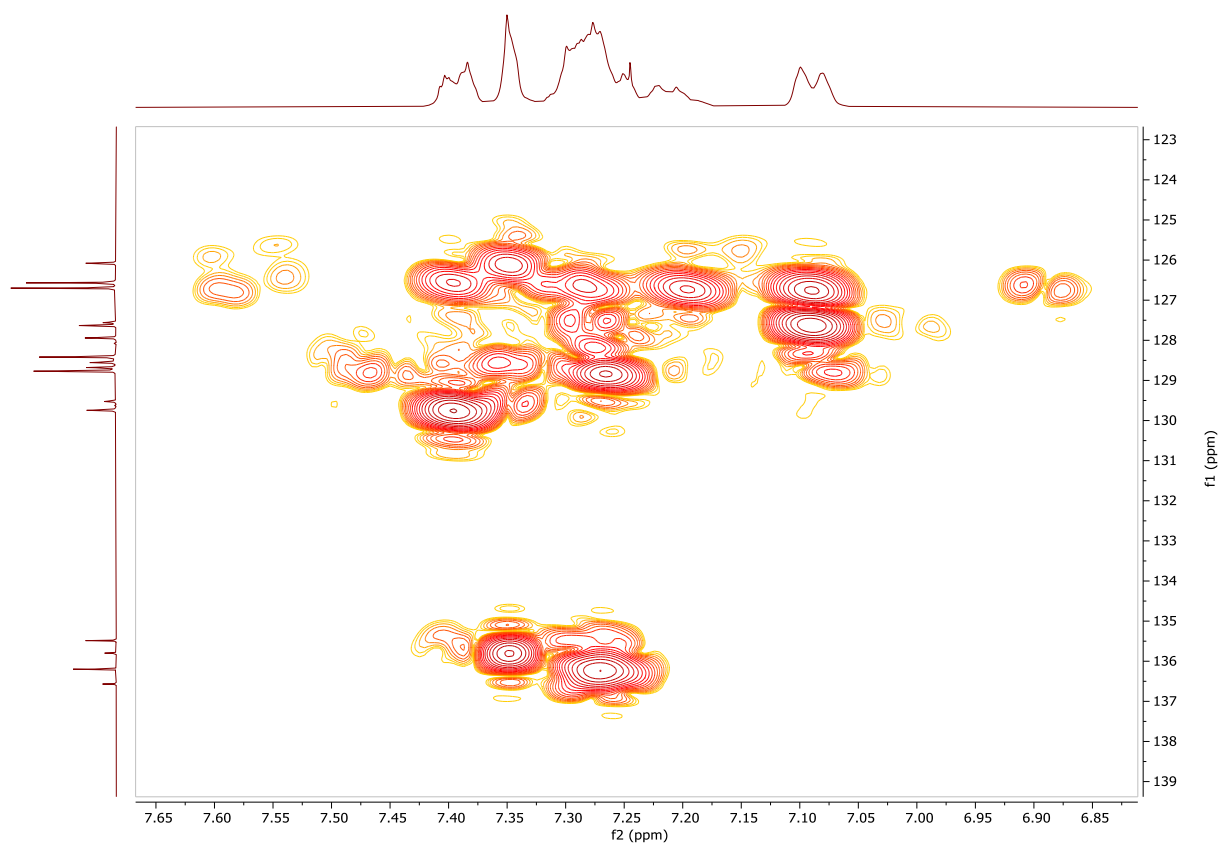
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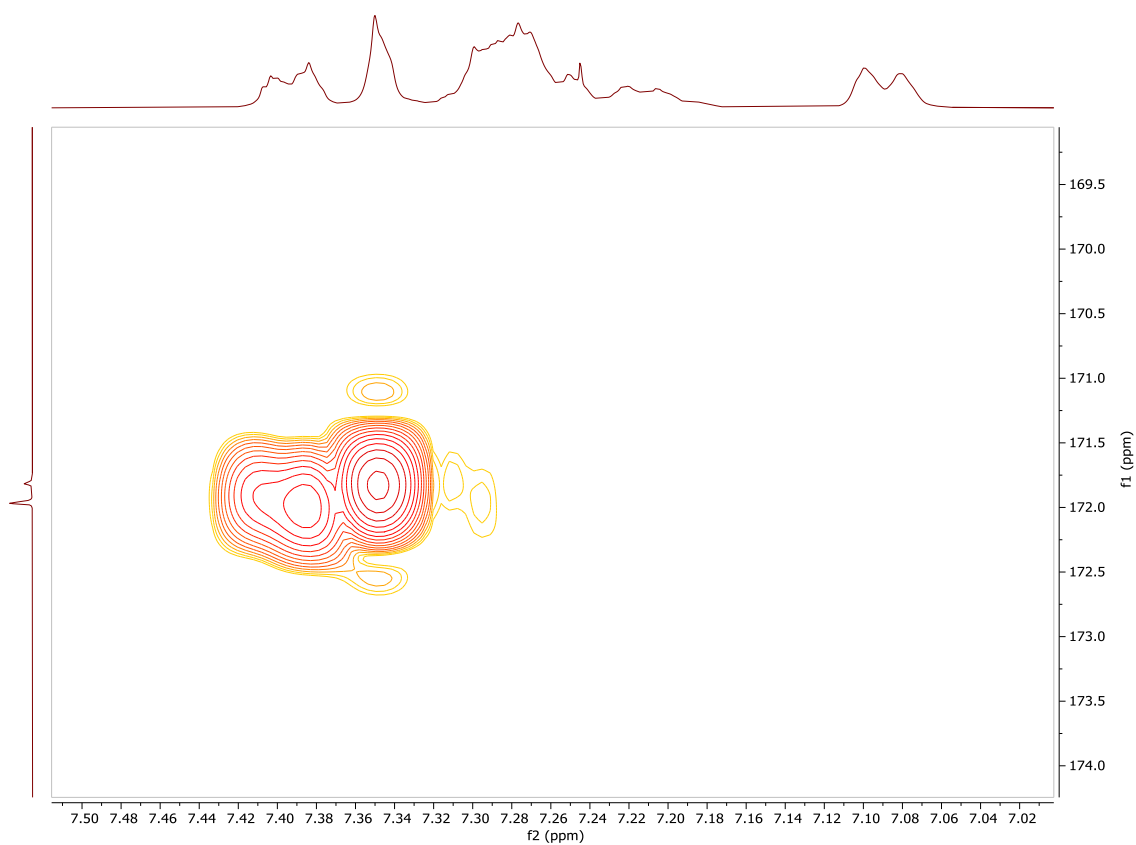
^1H , ^{13}C HMBC in CDCl_3 for **7b** (zoomed in)



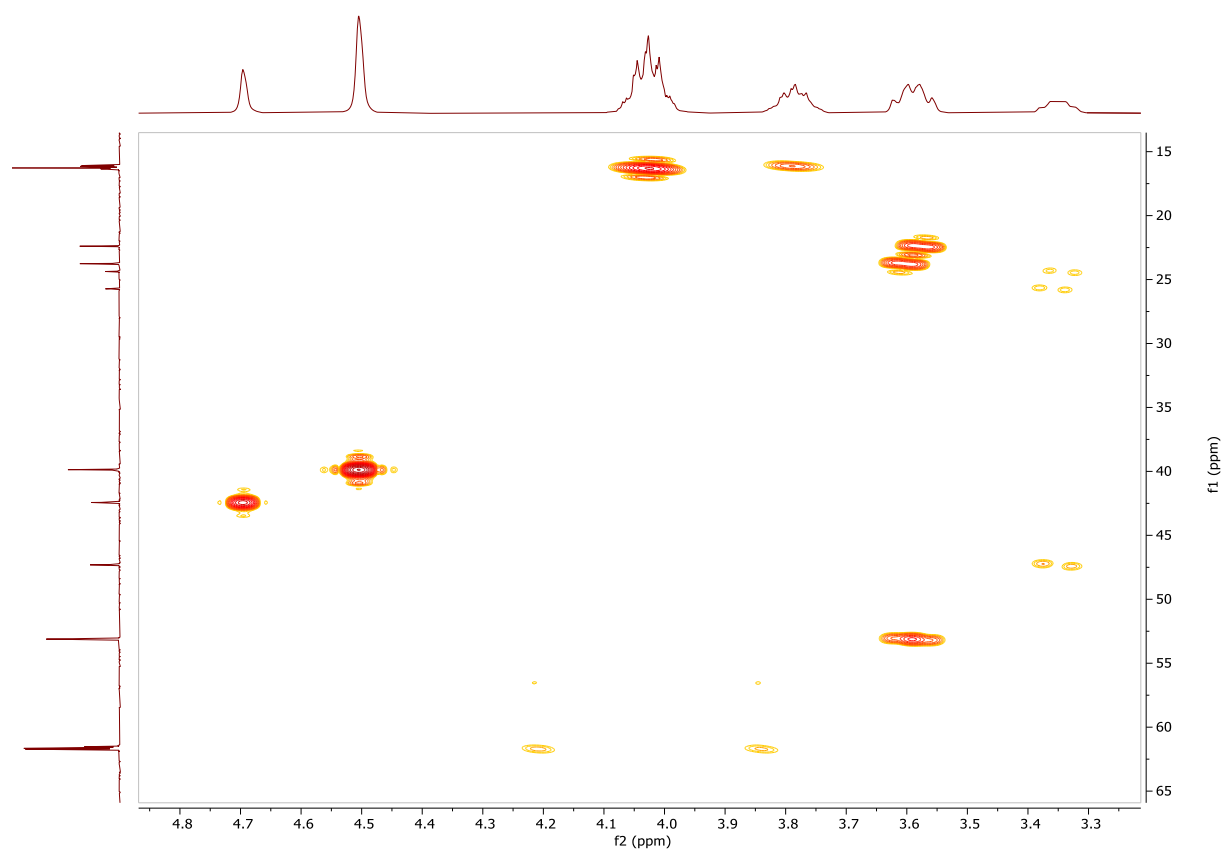
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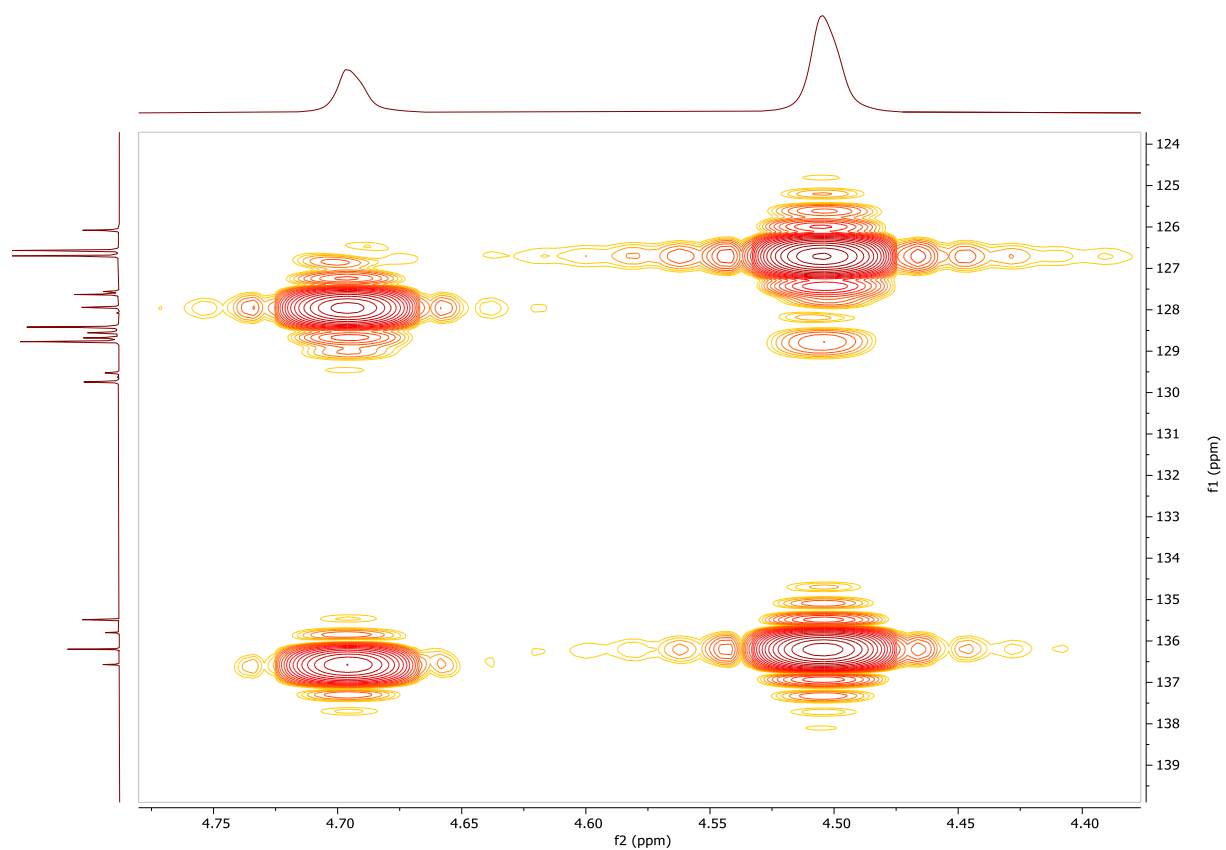
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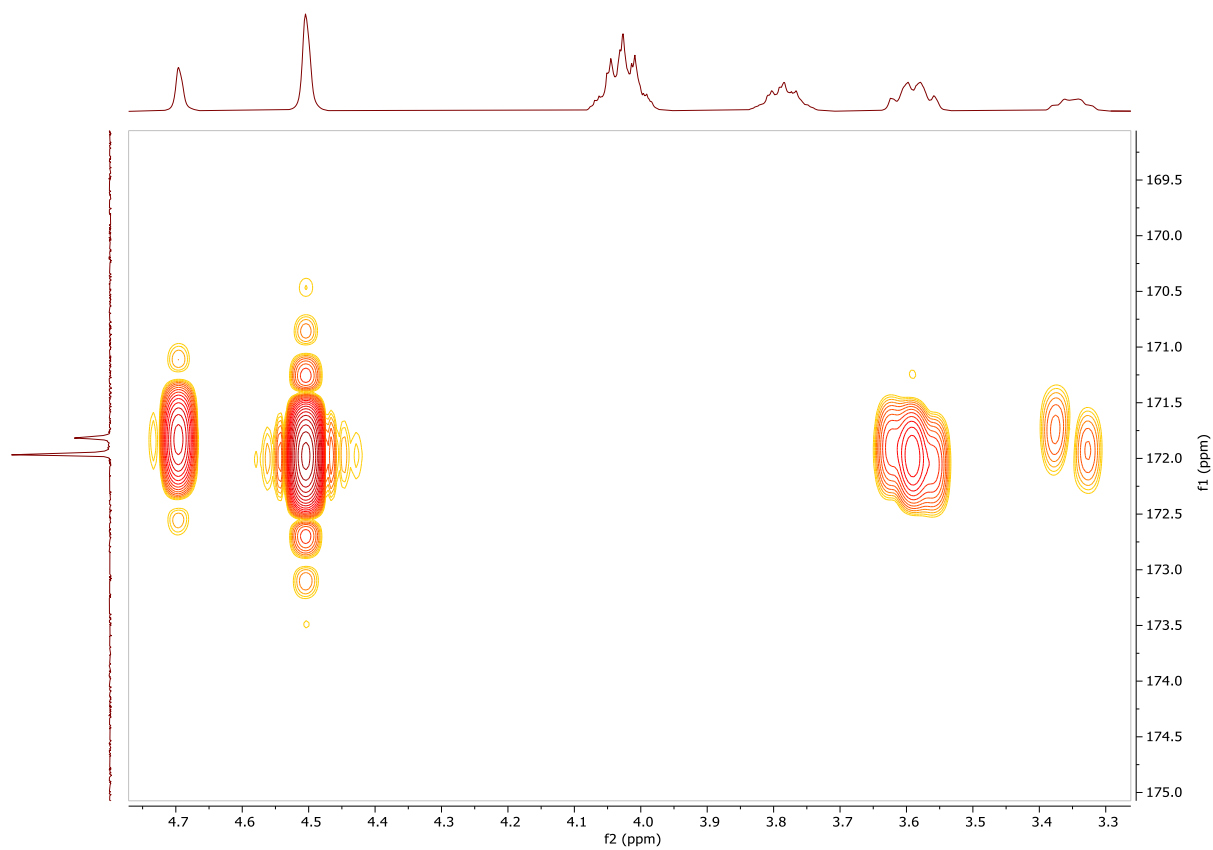
^1H , ^{13}C HMBC in CDCl_3 for **7b** (zoomed in)



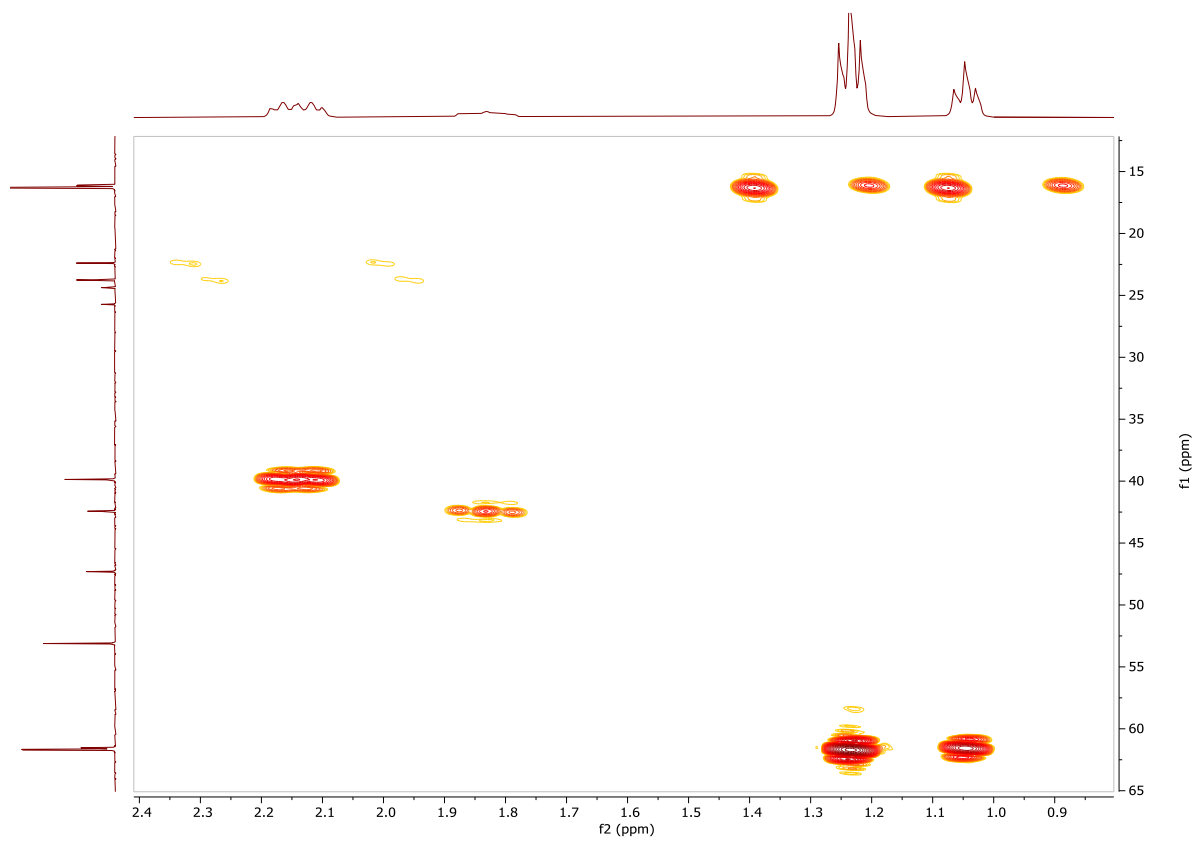
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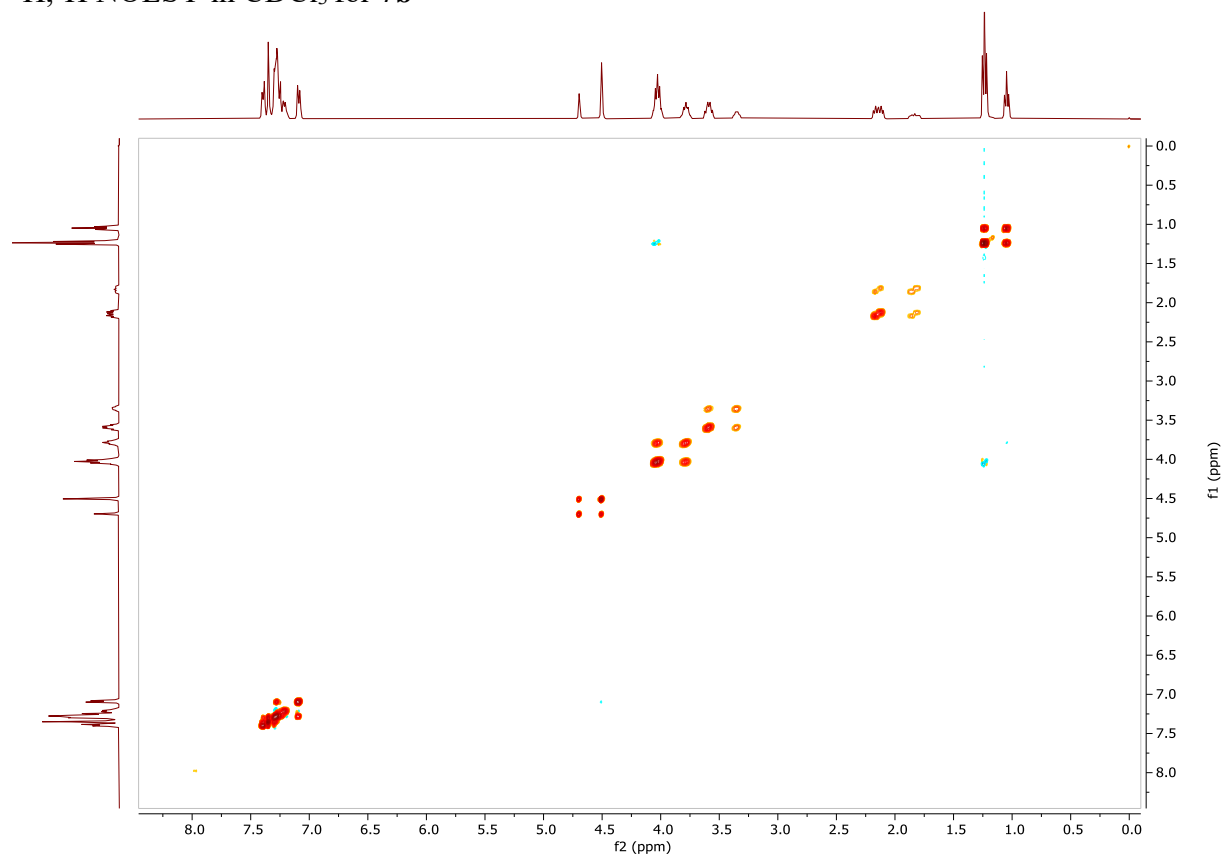
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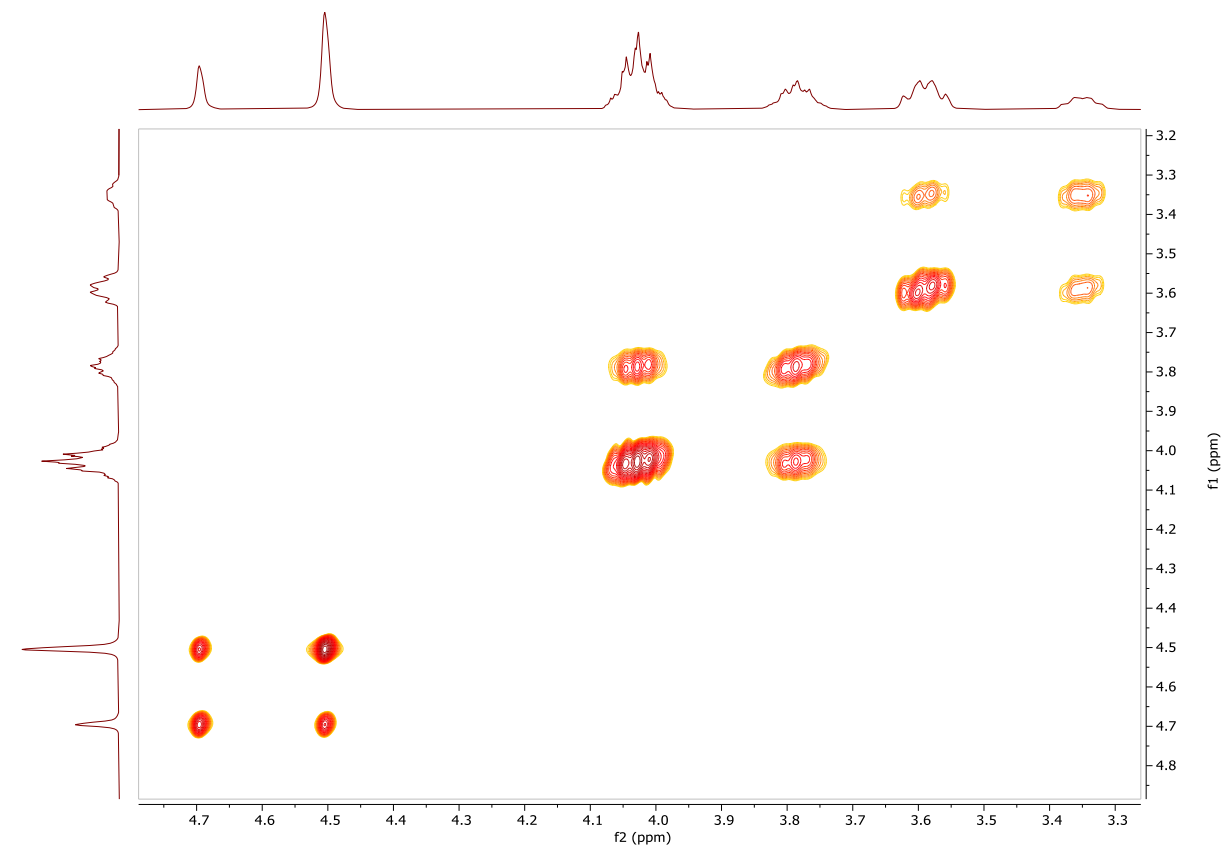
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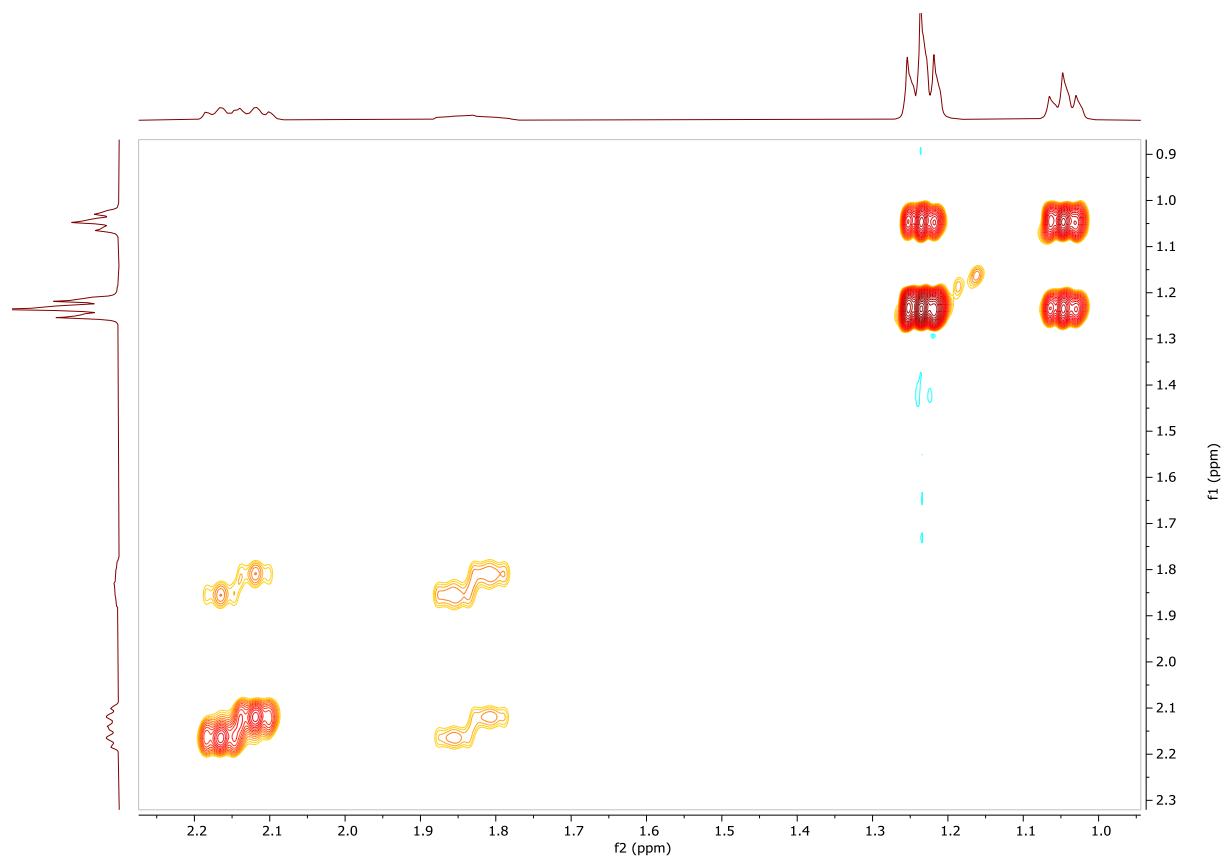
$^1\text{H}, ^1\text{H}$ NOESY in CDCl_3 for **7b**



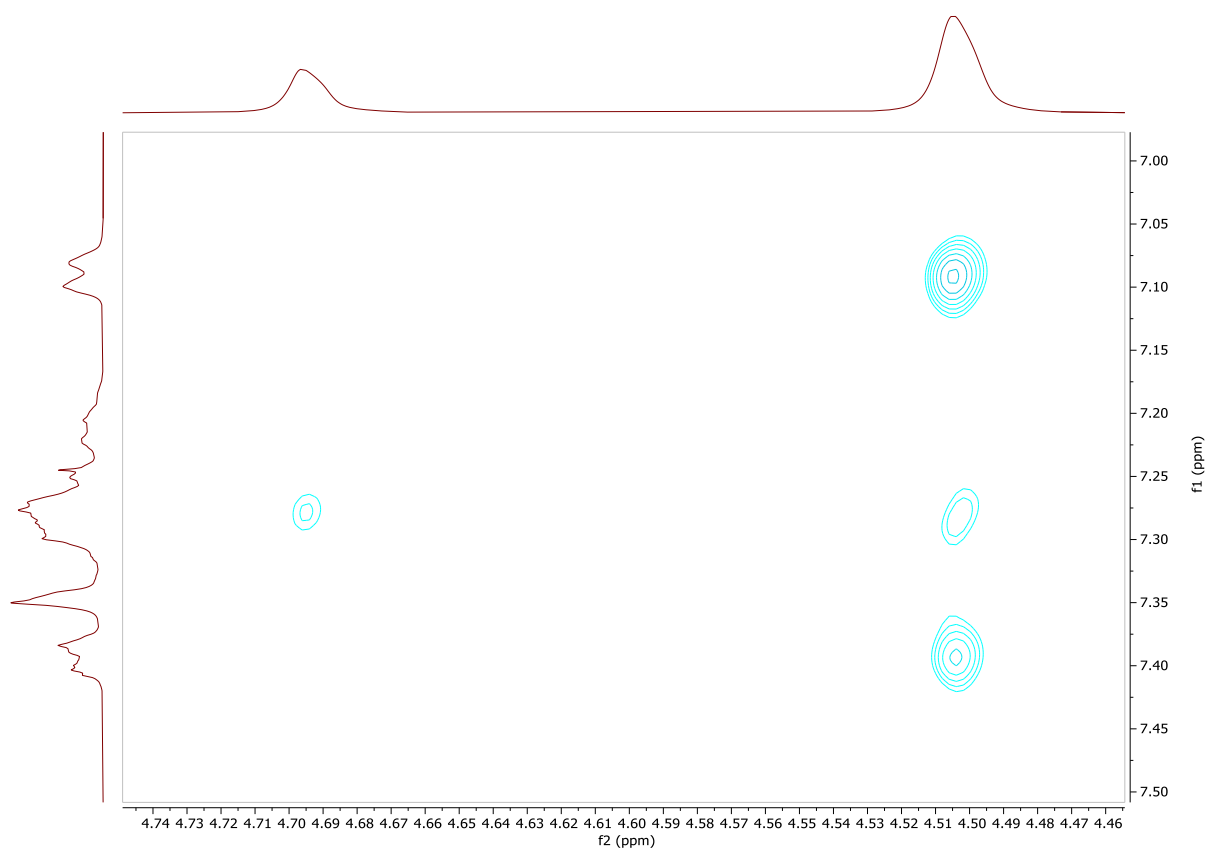
$^1\text{H}, ^1\text{H}$ NOESY in CDCl_3 for **7b** (zoomed in)



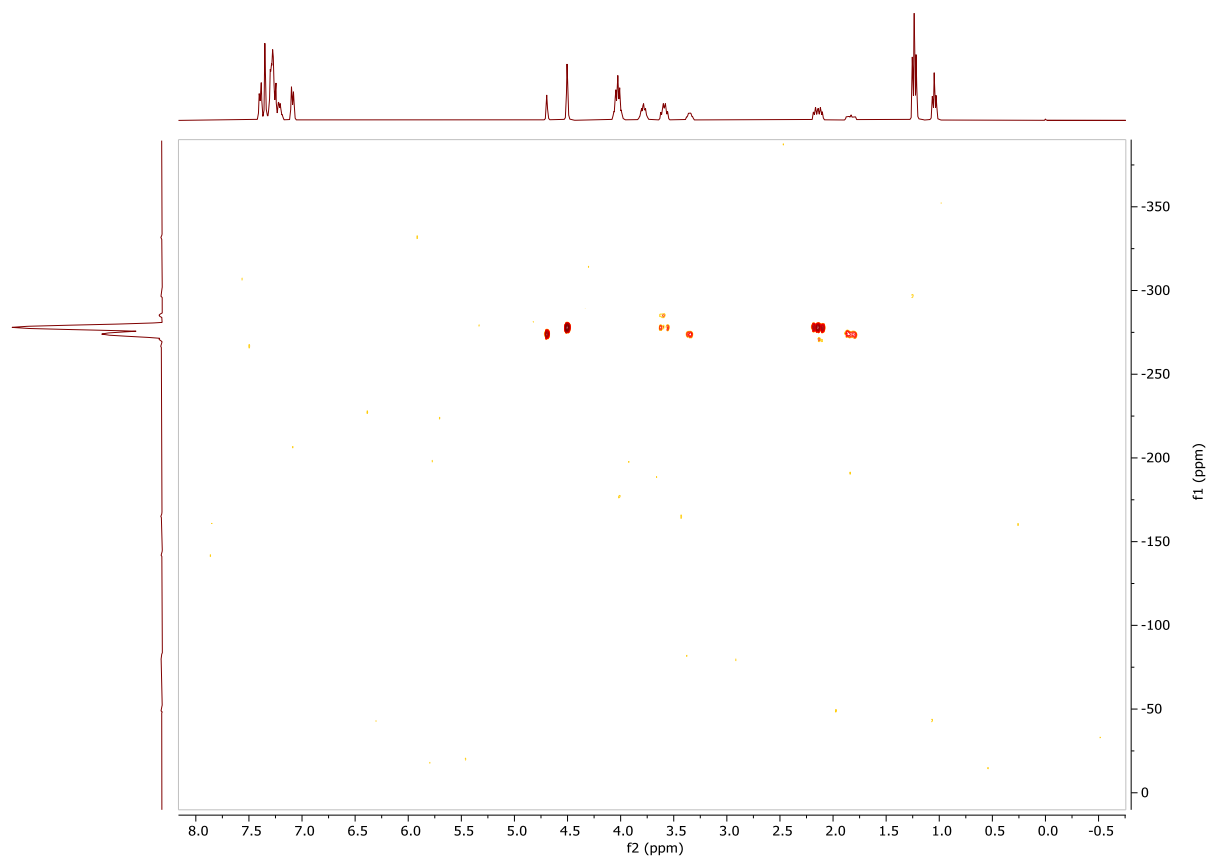
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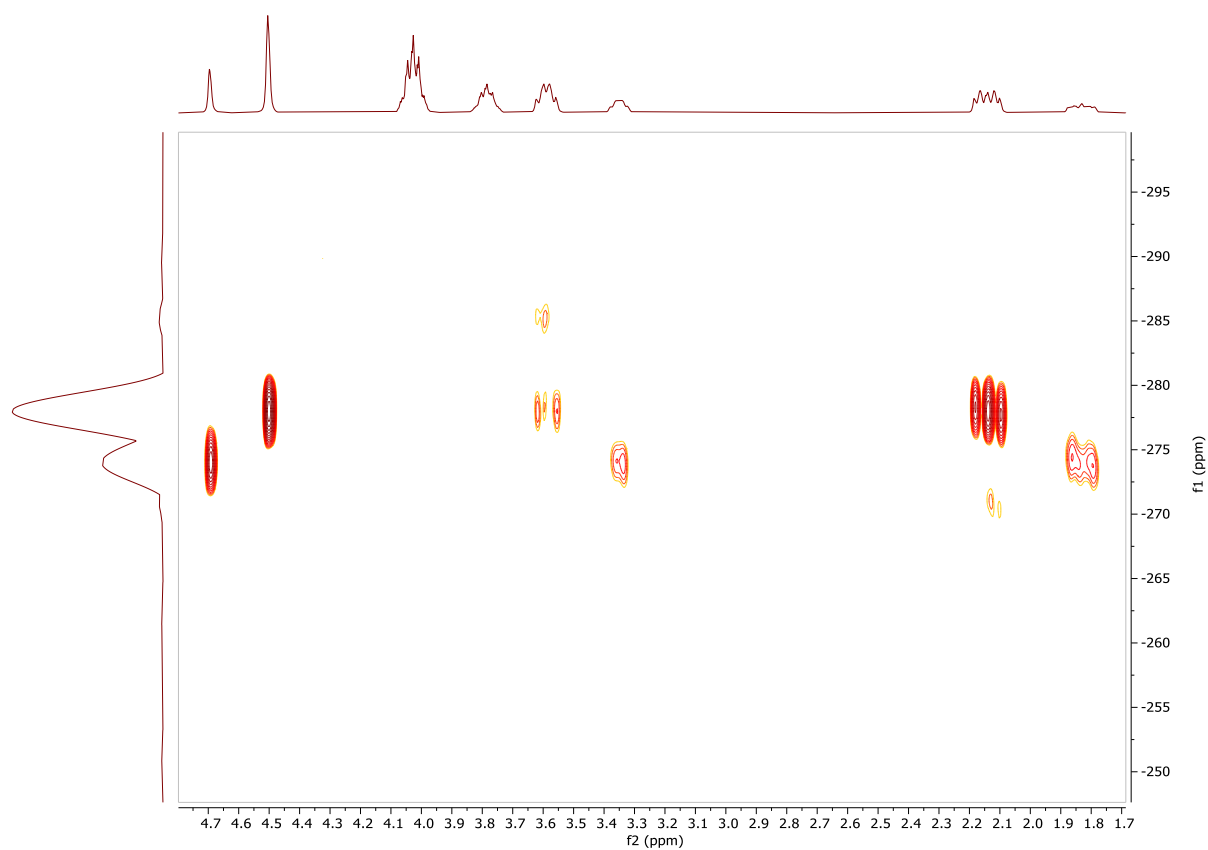
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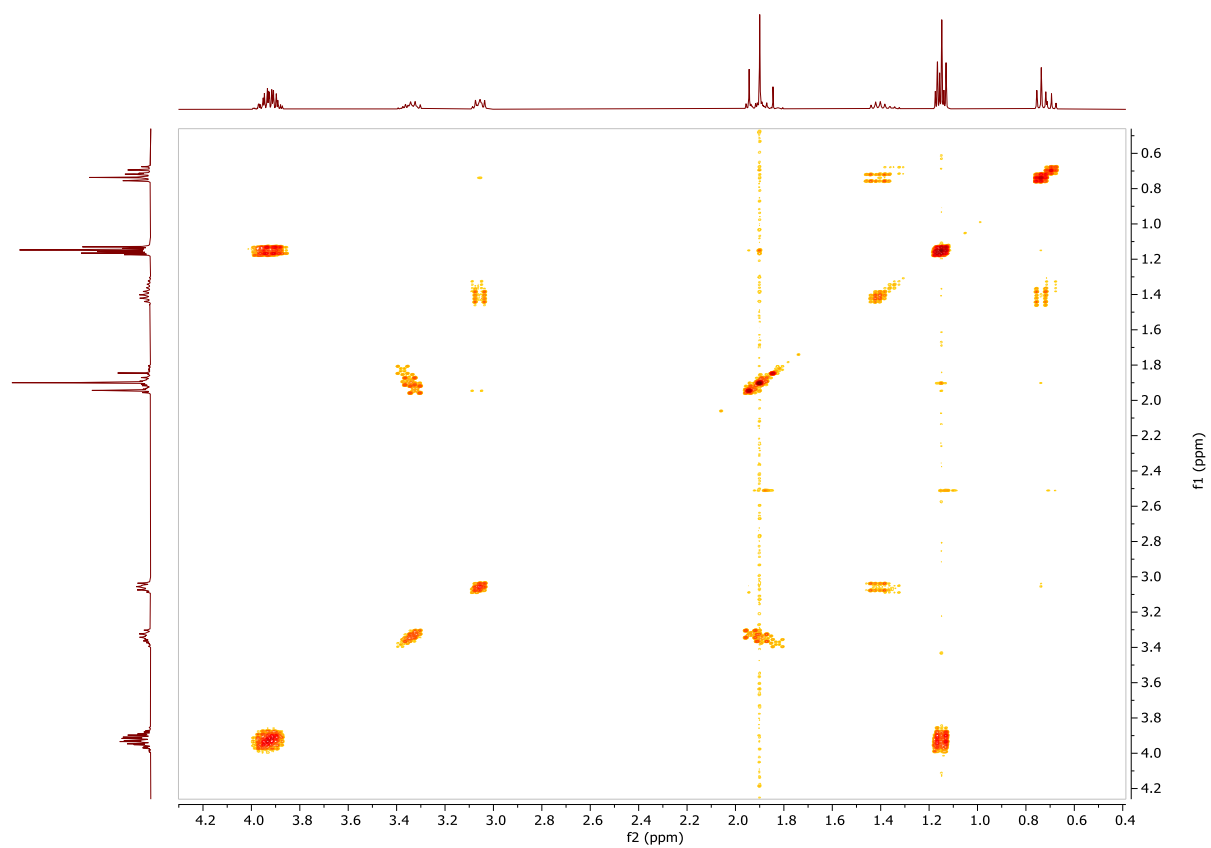
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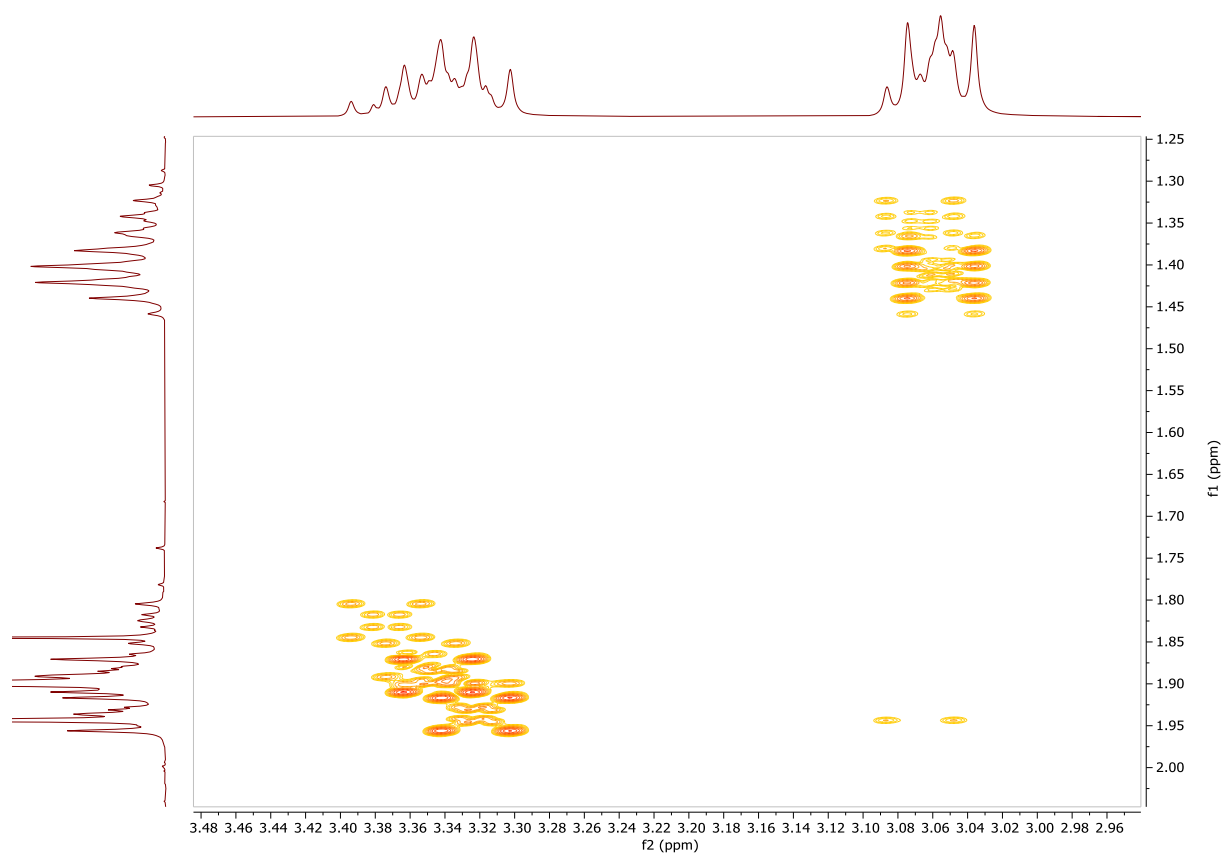
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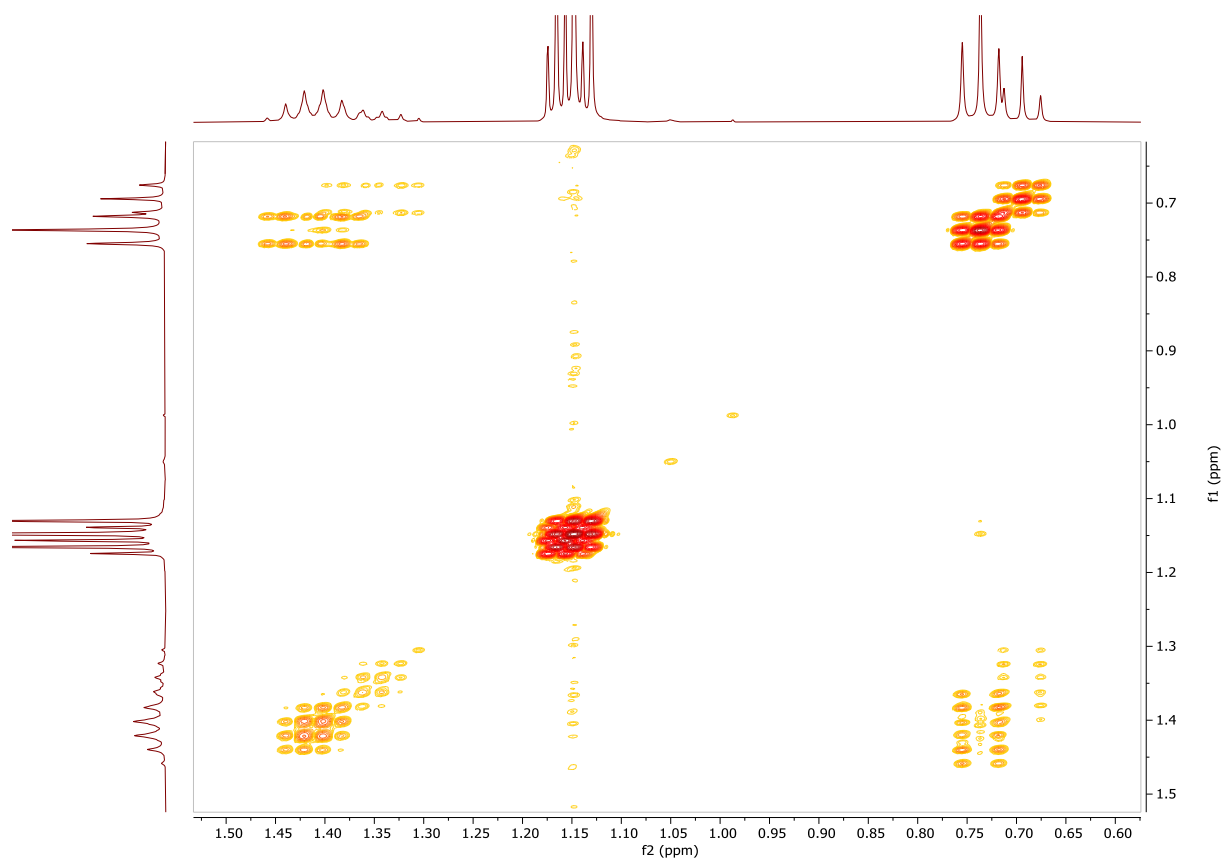
^1H , ^1H -COSY NMR spectrum of **8a** in CDCl_3



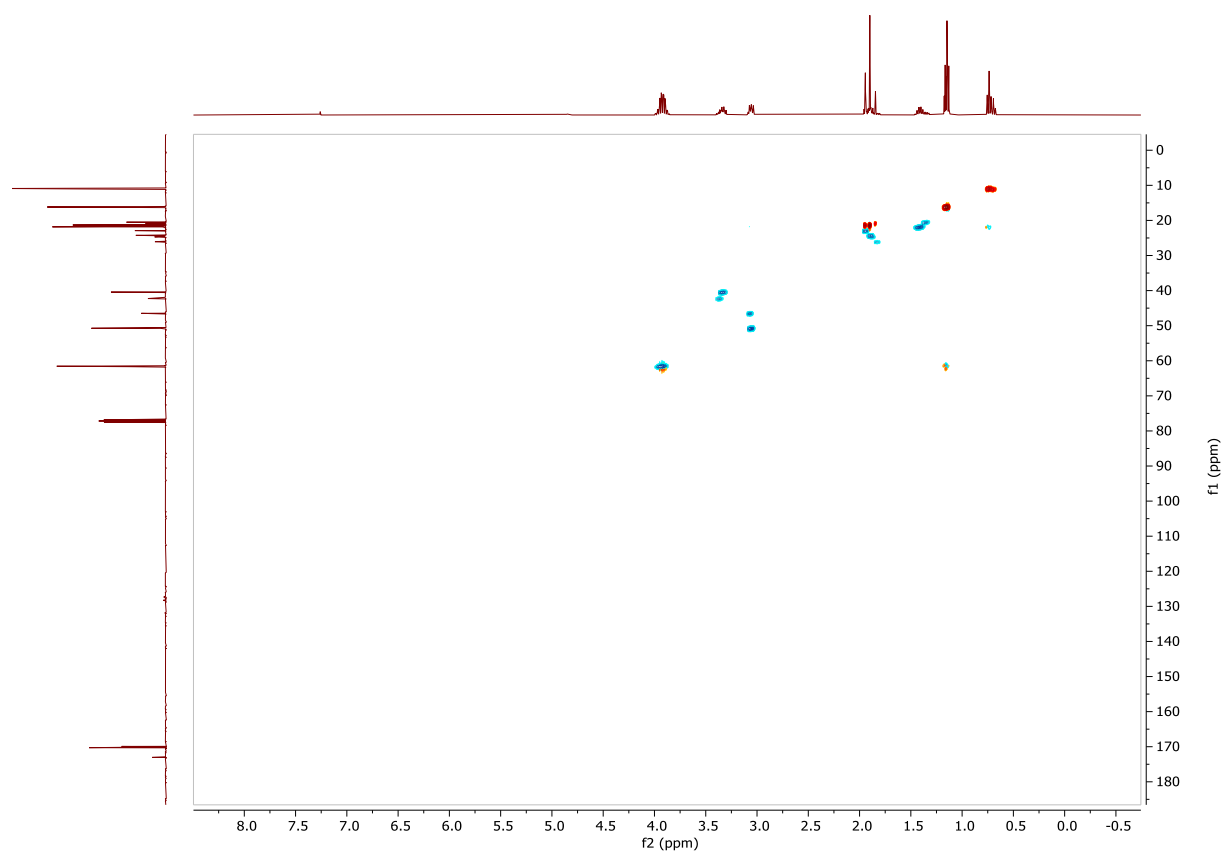
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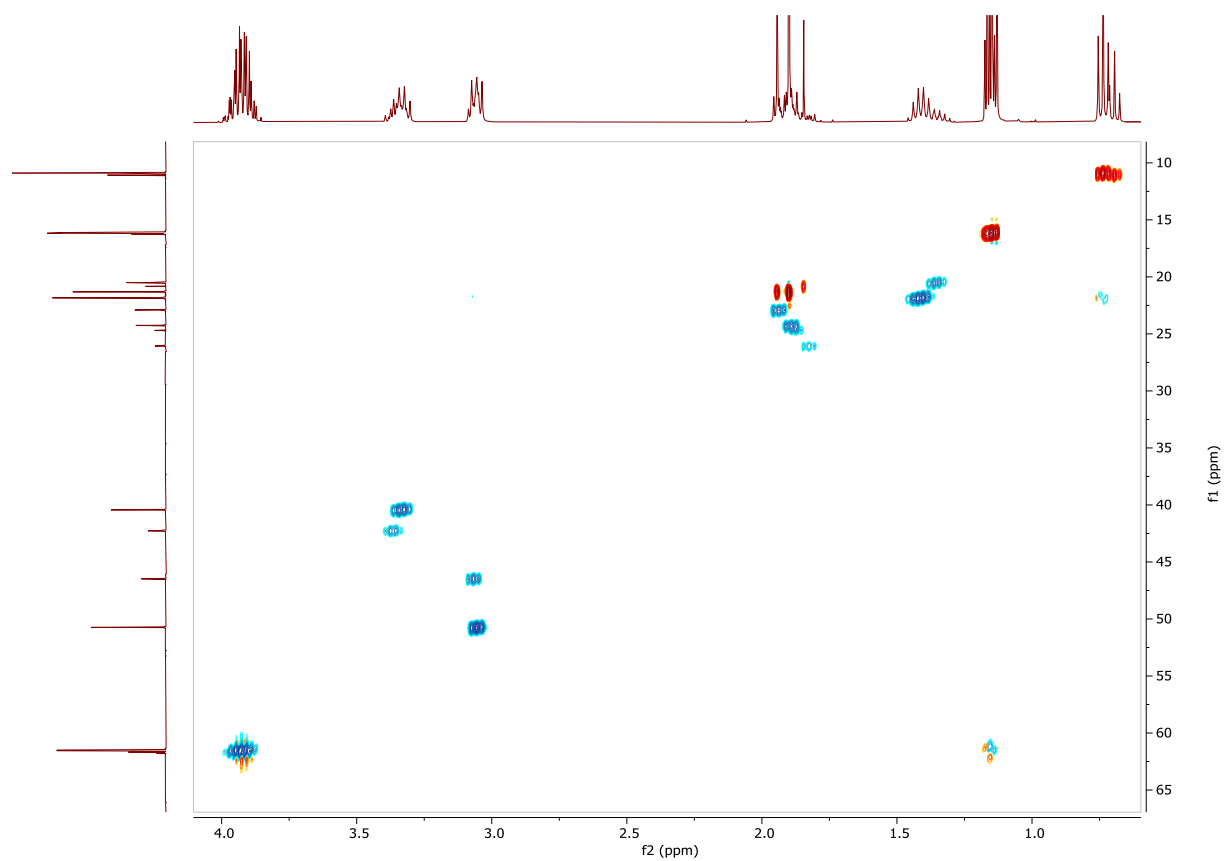
$^1\text{H}, ^1\text{H}$ -COSY NMR spectrum of **8a** in CDCl_3 (zoomed in)



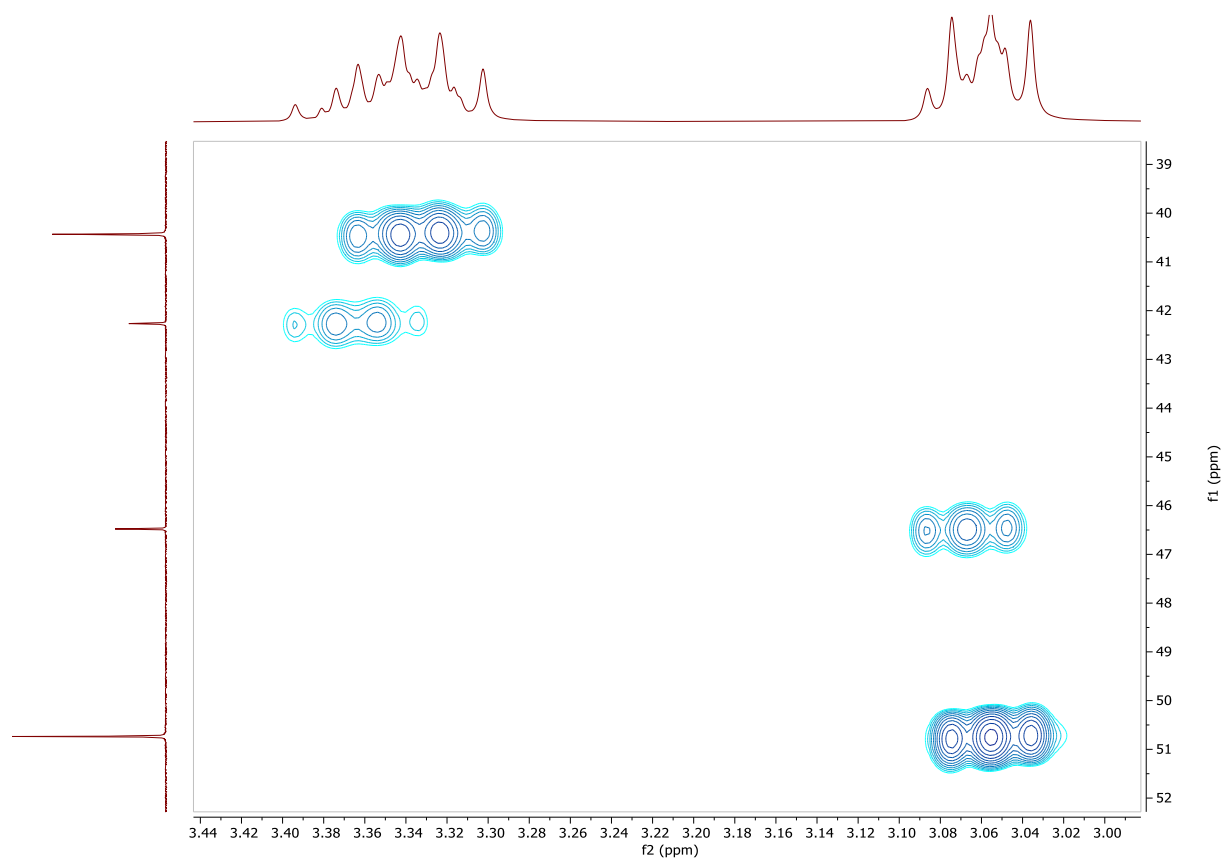
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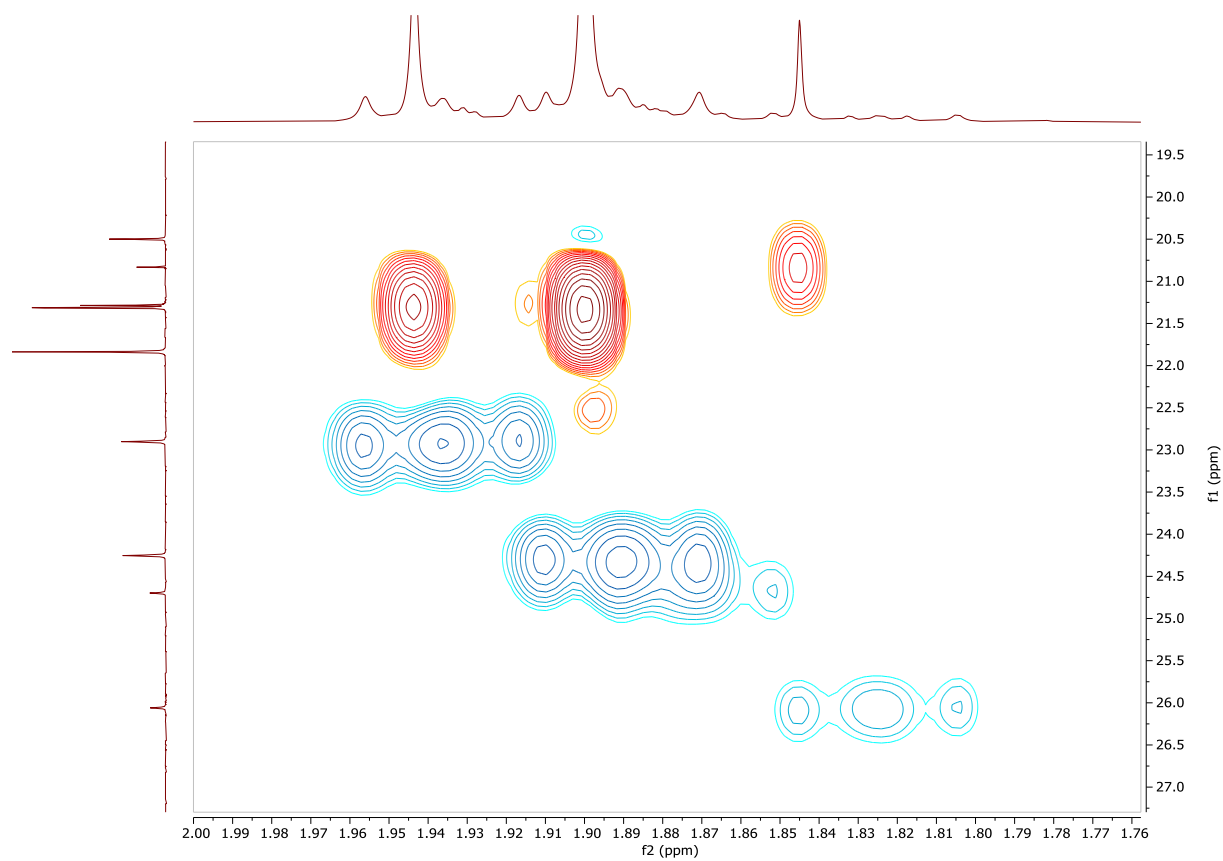
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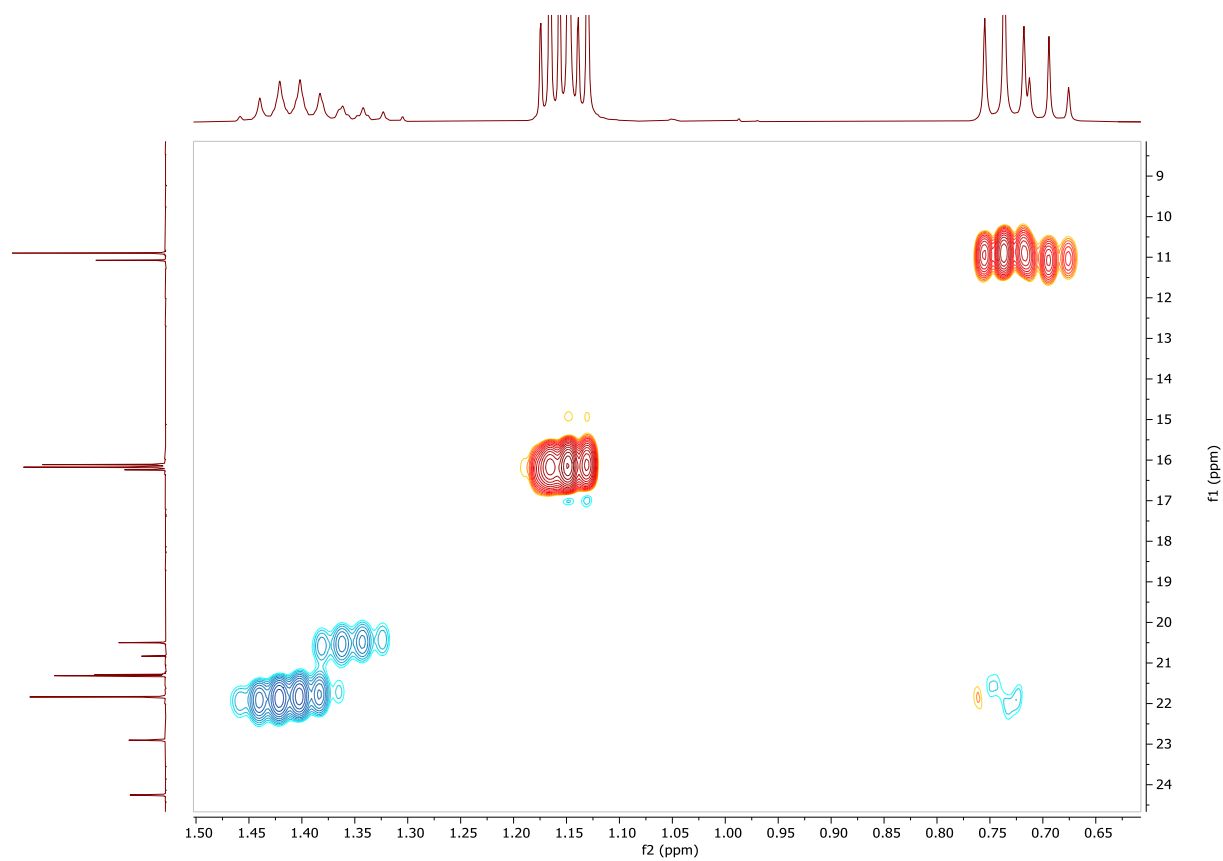
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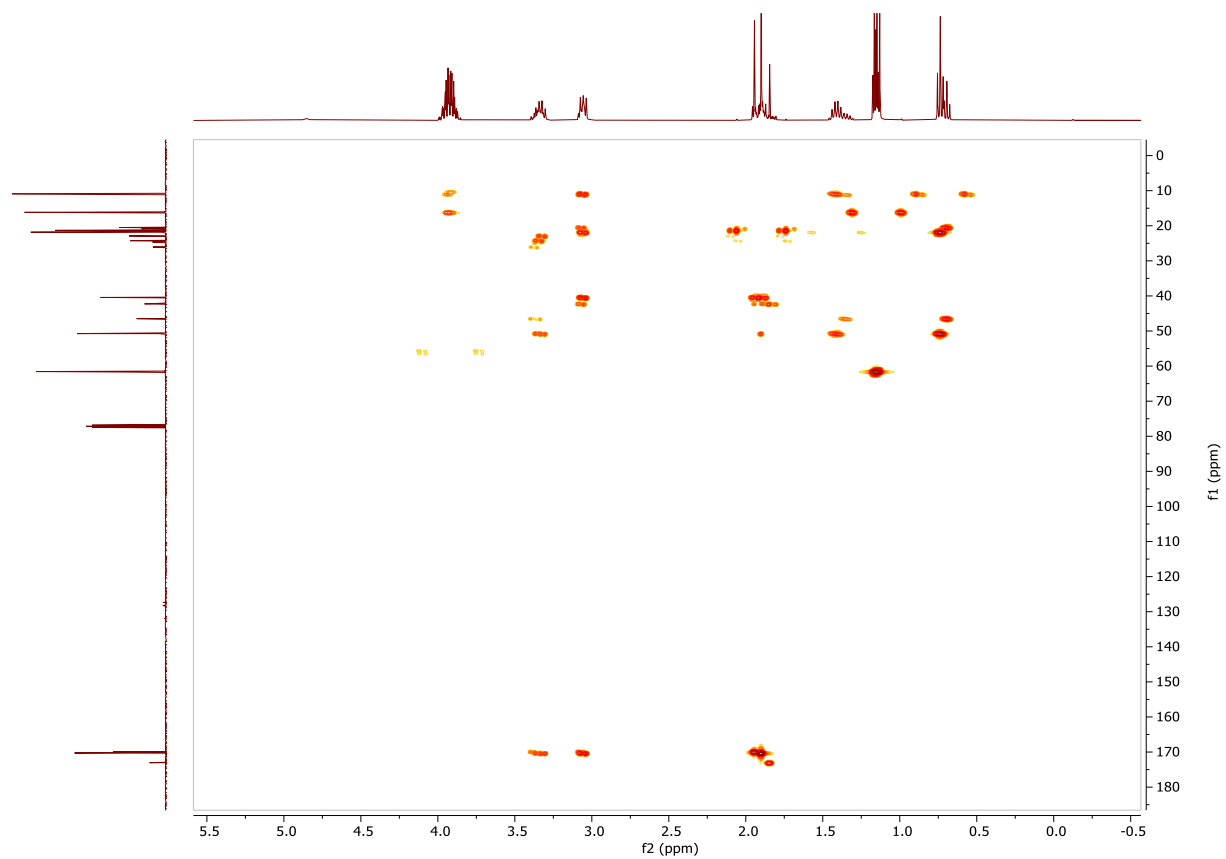
^1H , ^{13}C -HSQC NMR spectrum of **8a** in CDCl_3 (zoomed in)



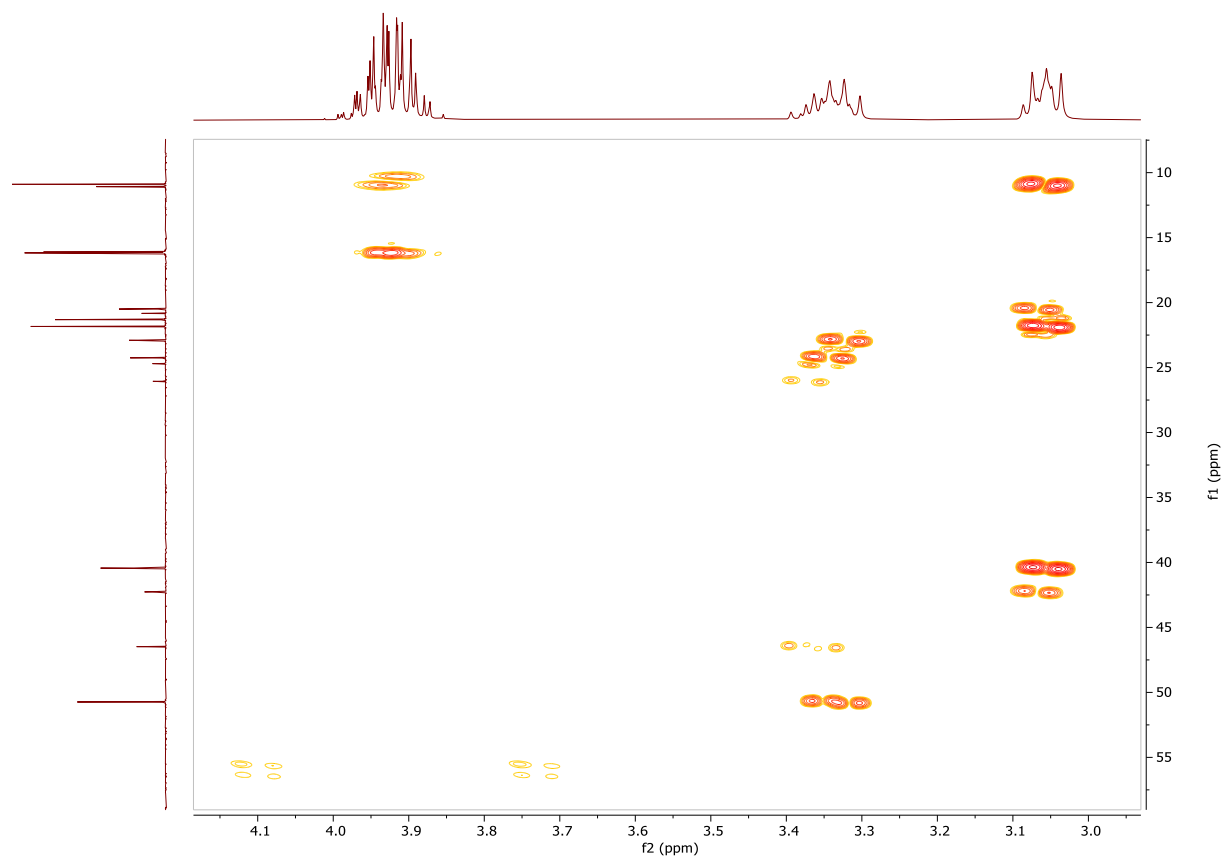
^1H , ^{13}C -HSQC NMR spectrum of **8a** in CDCl_3 (zoomed in)



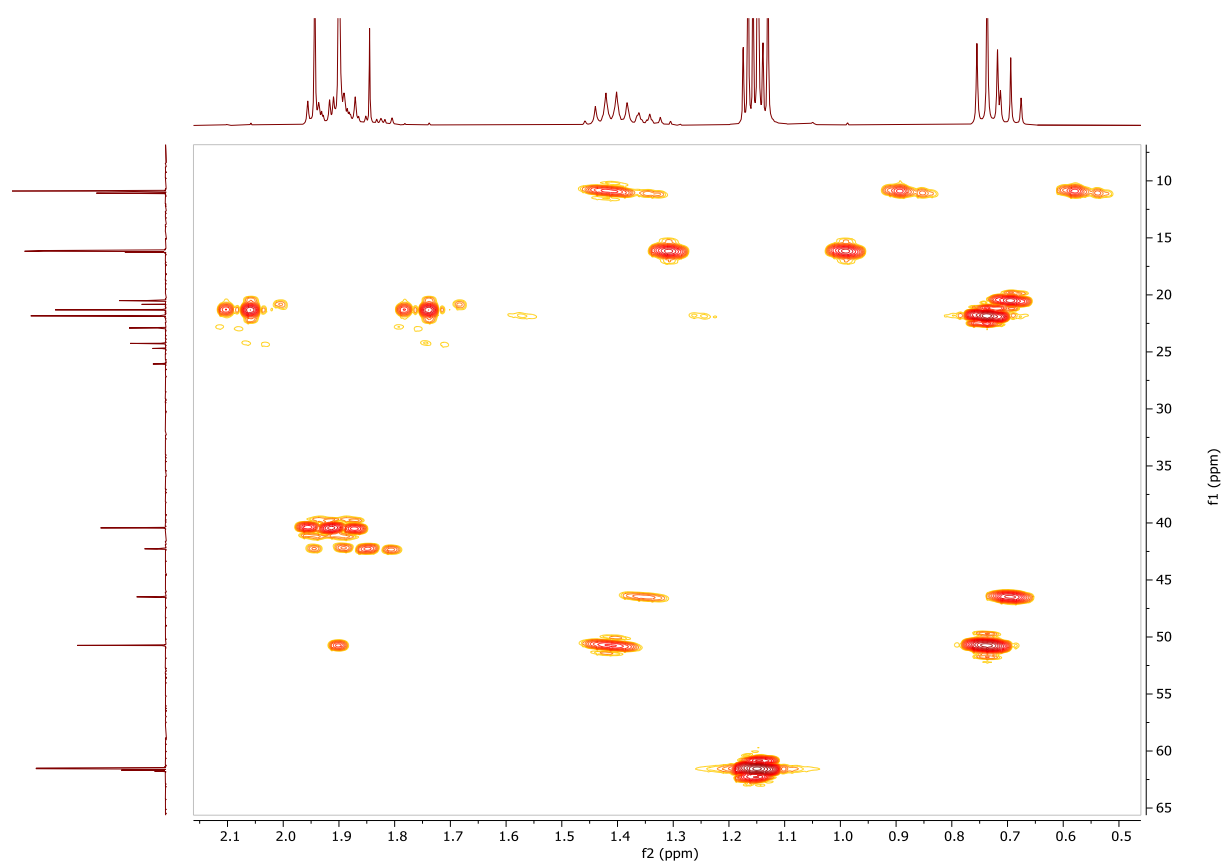
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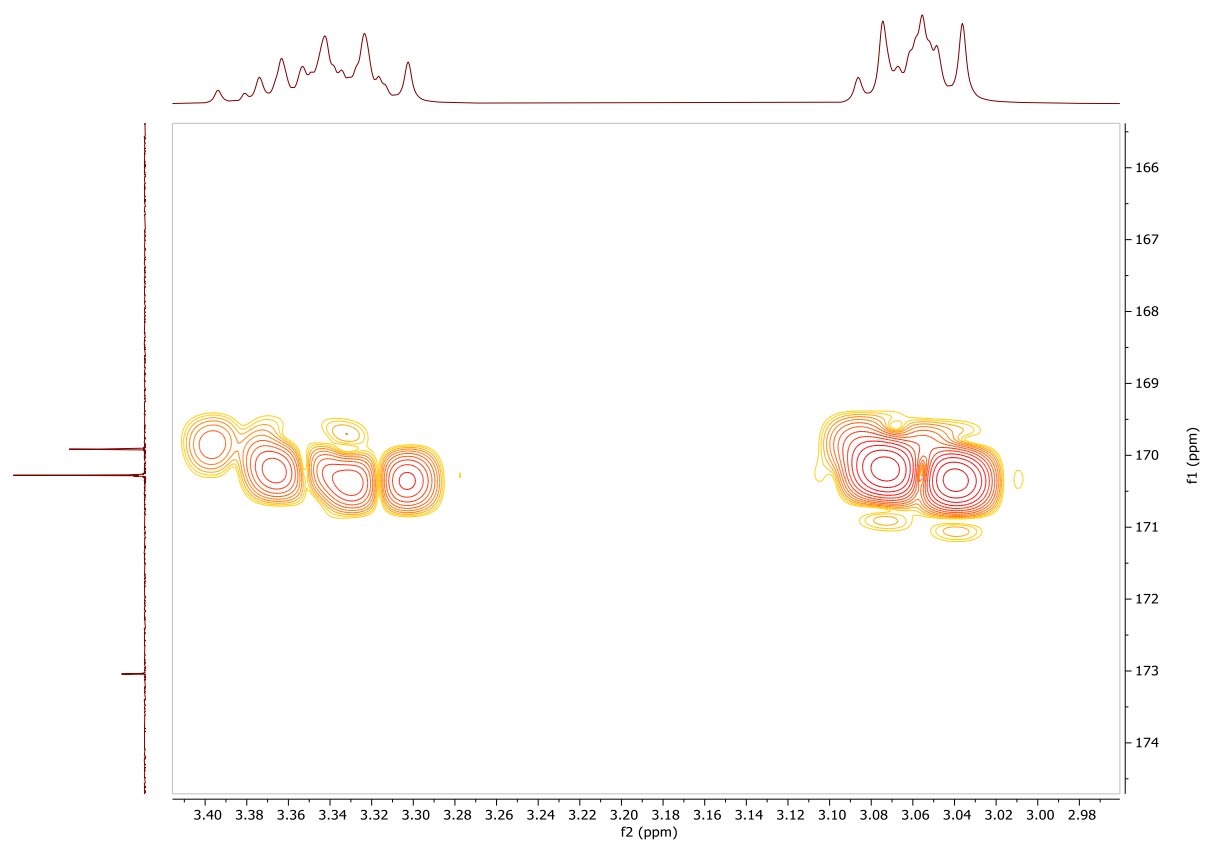
^1H , ^{13}C -HMBC NMR spectrum of **8a** in CDCl_3 (zoomed in)



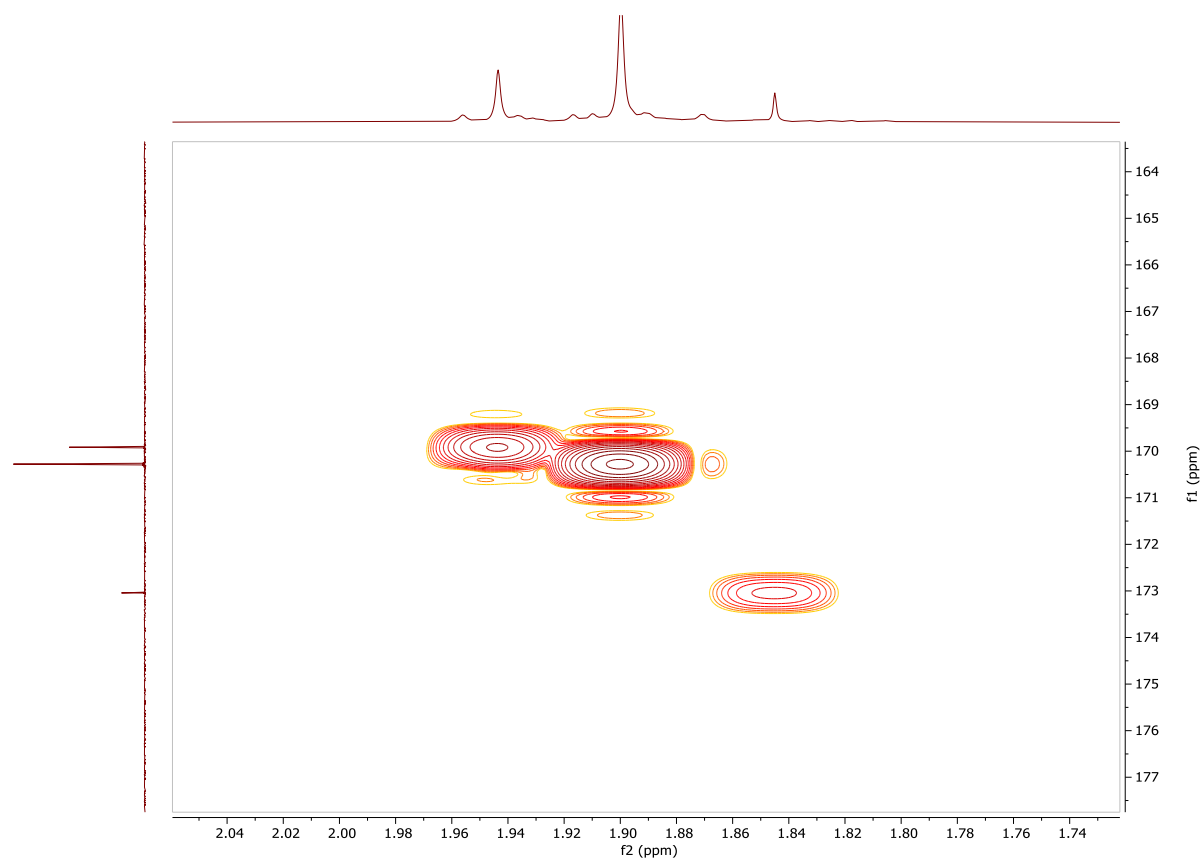
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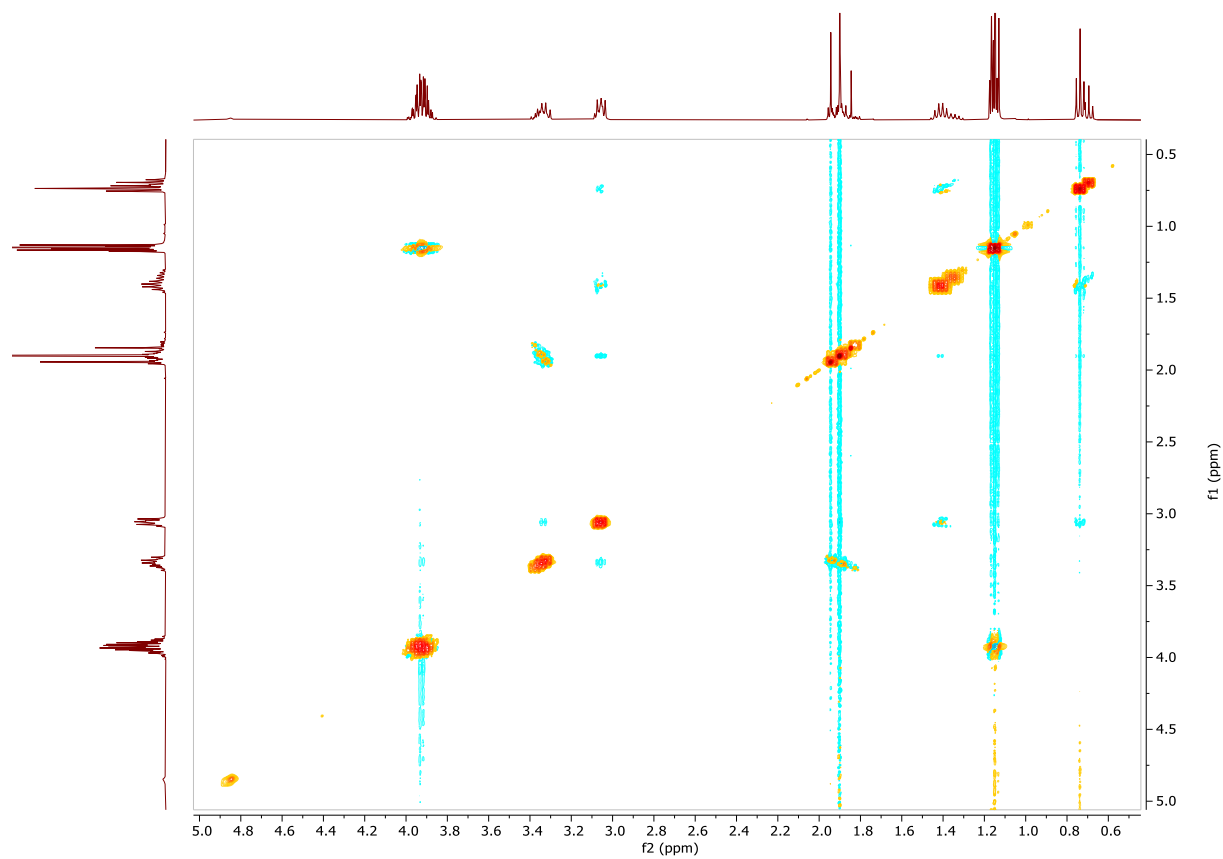
^1H , ^{13}C -HMBC NMR spectrum of **8a** in CDCl_3 (zoomed in)



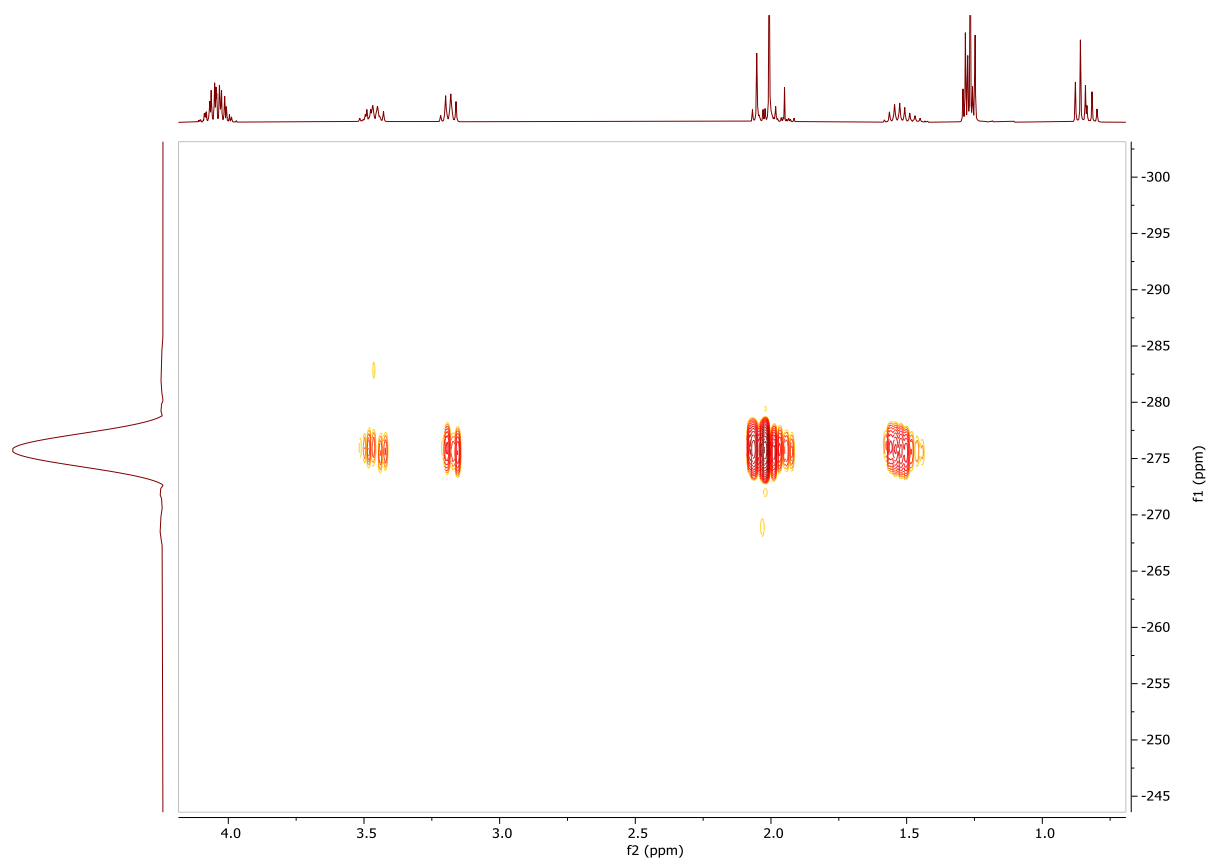
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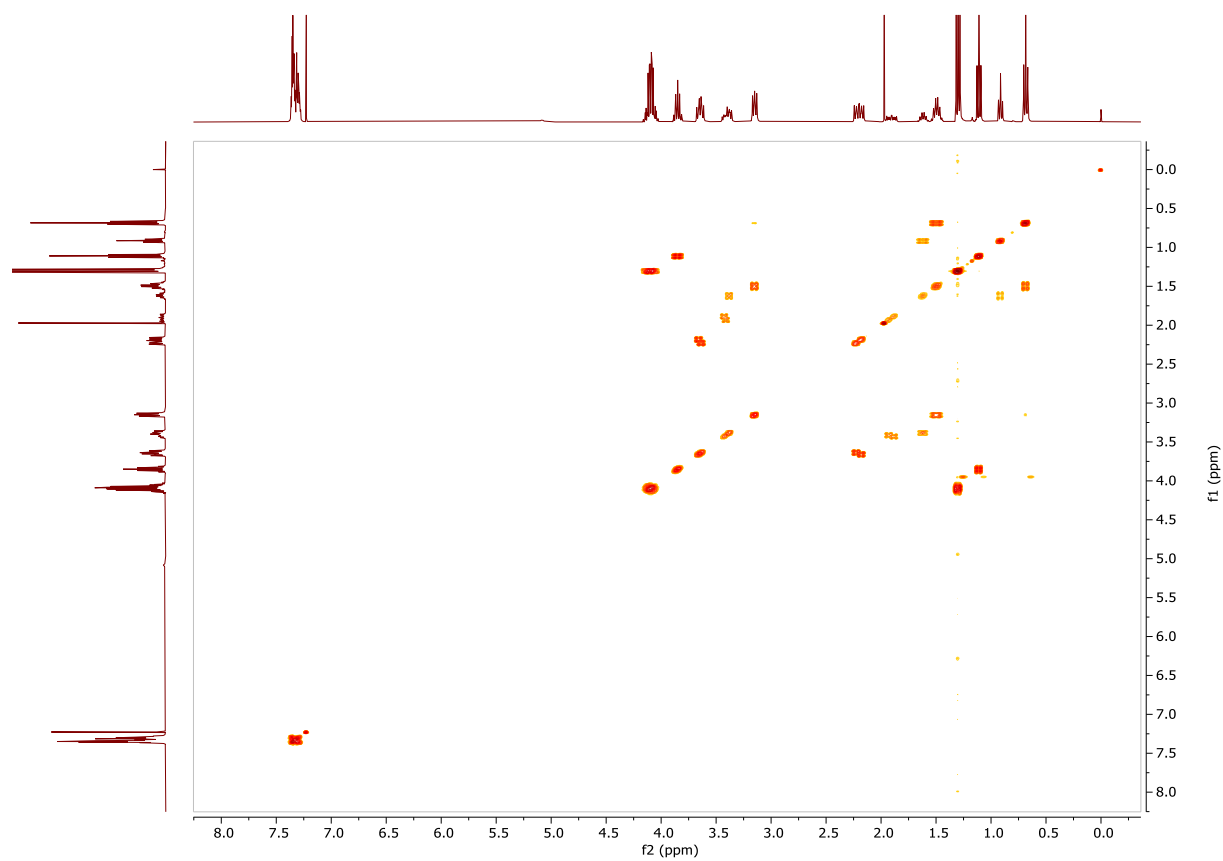
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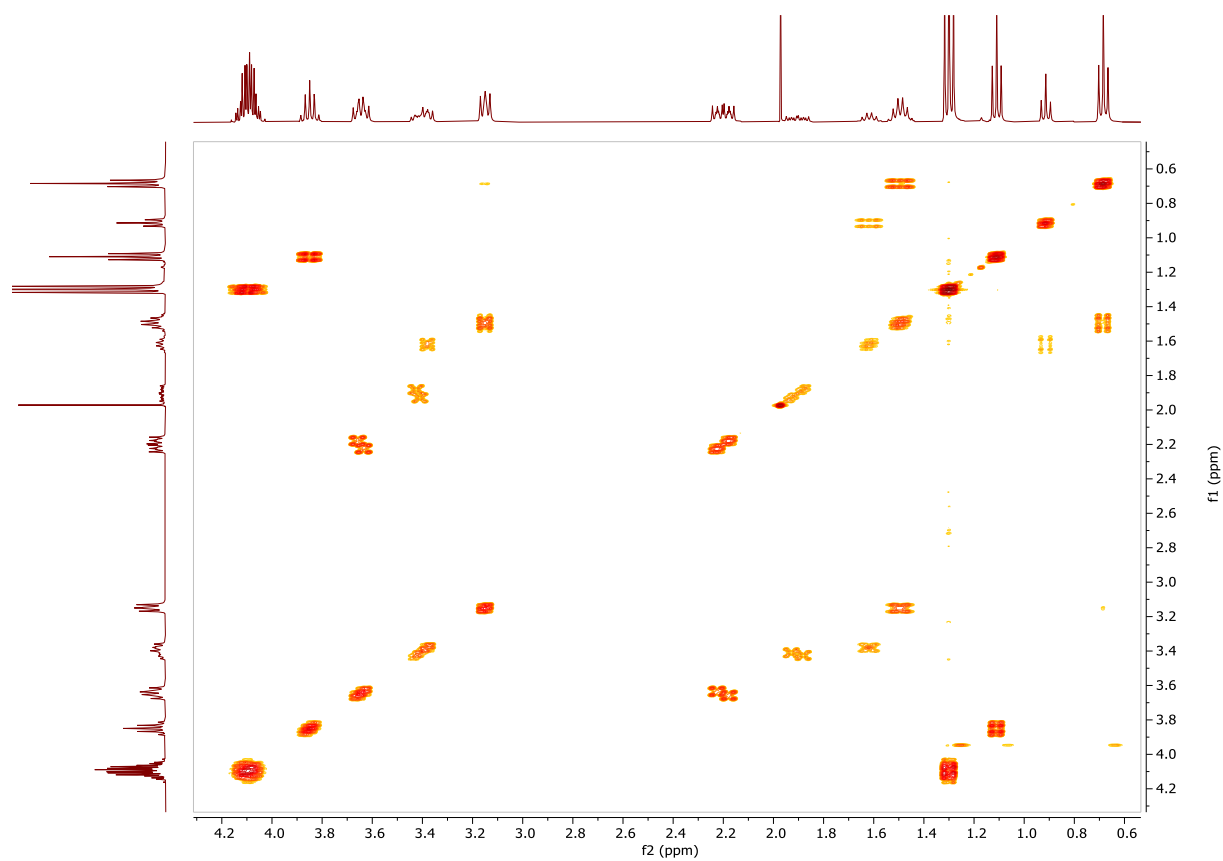
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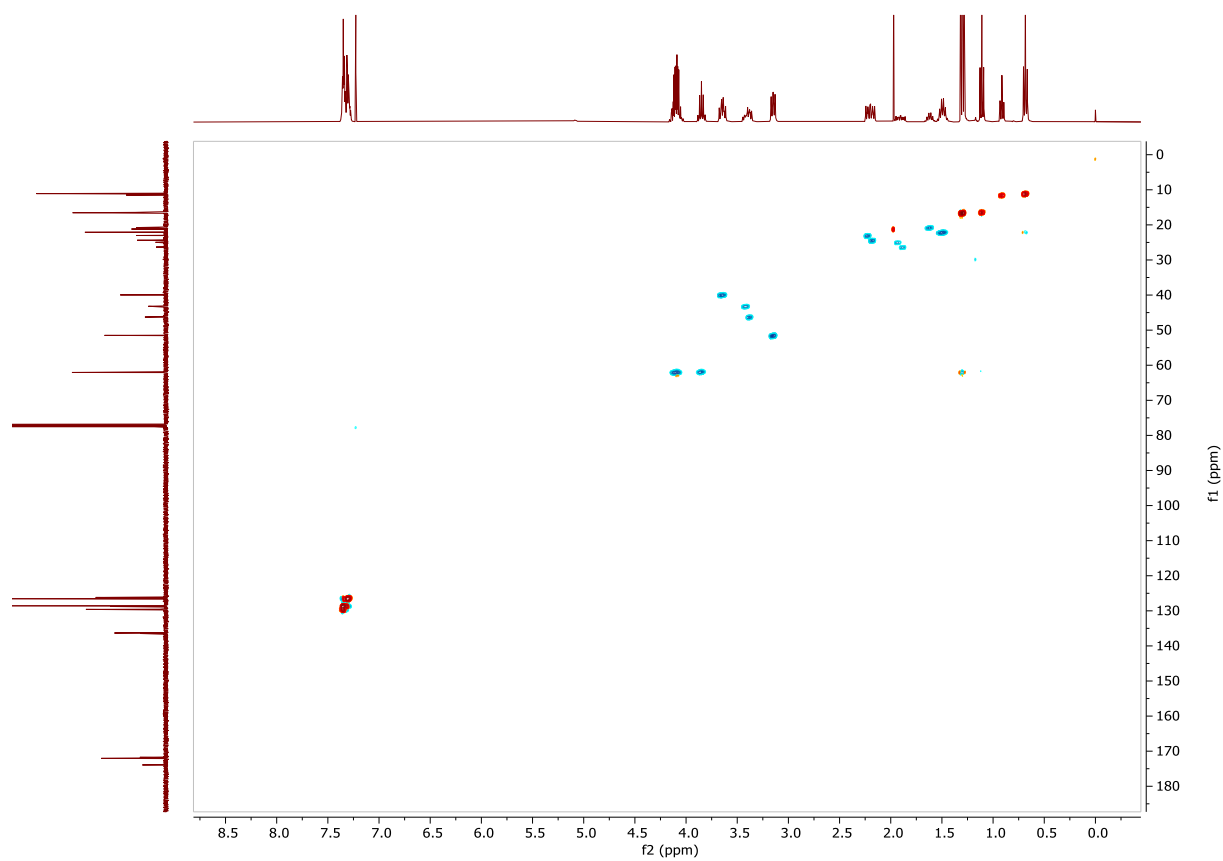
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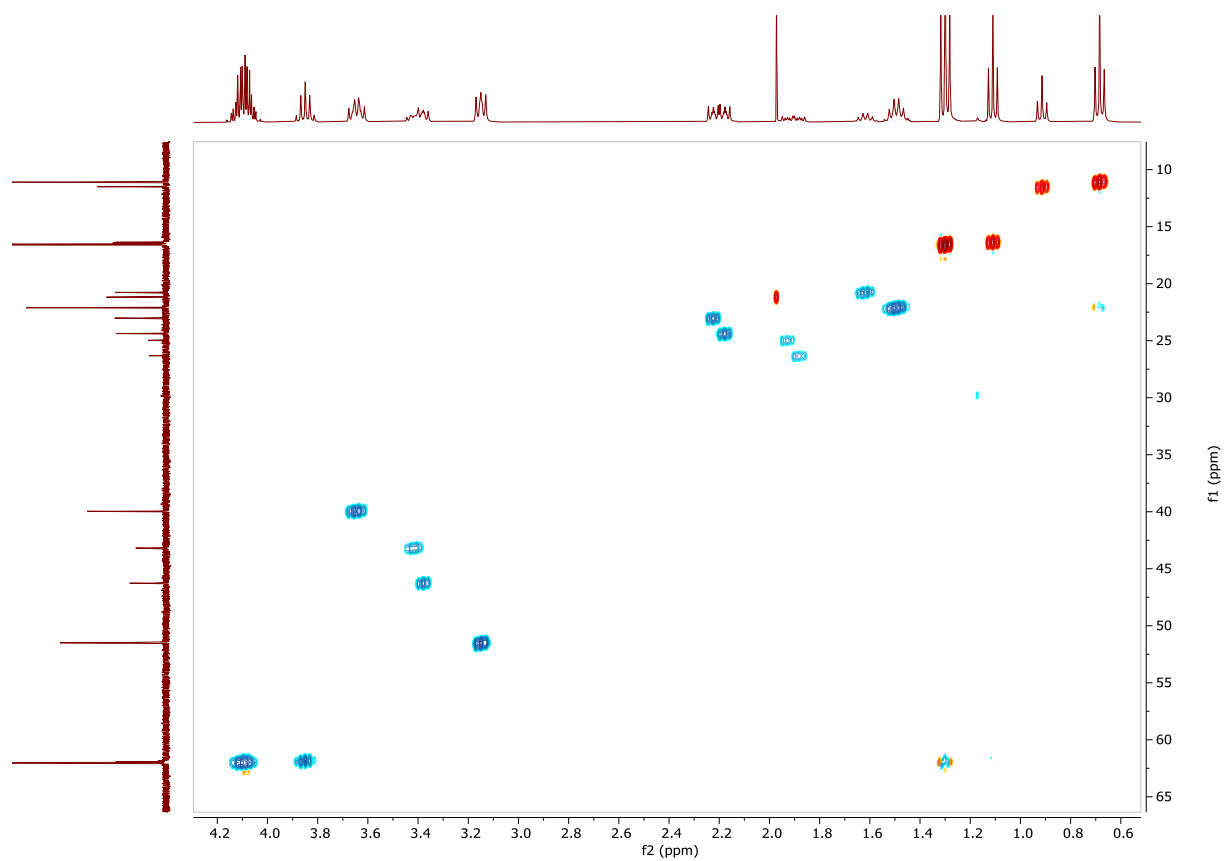
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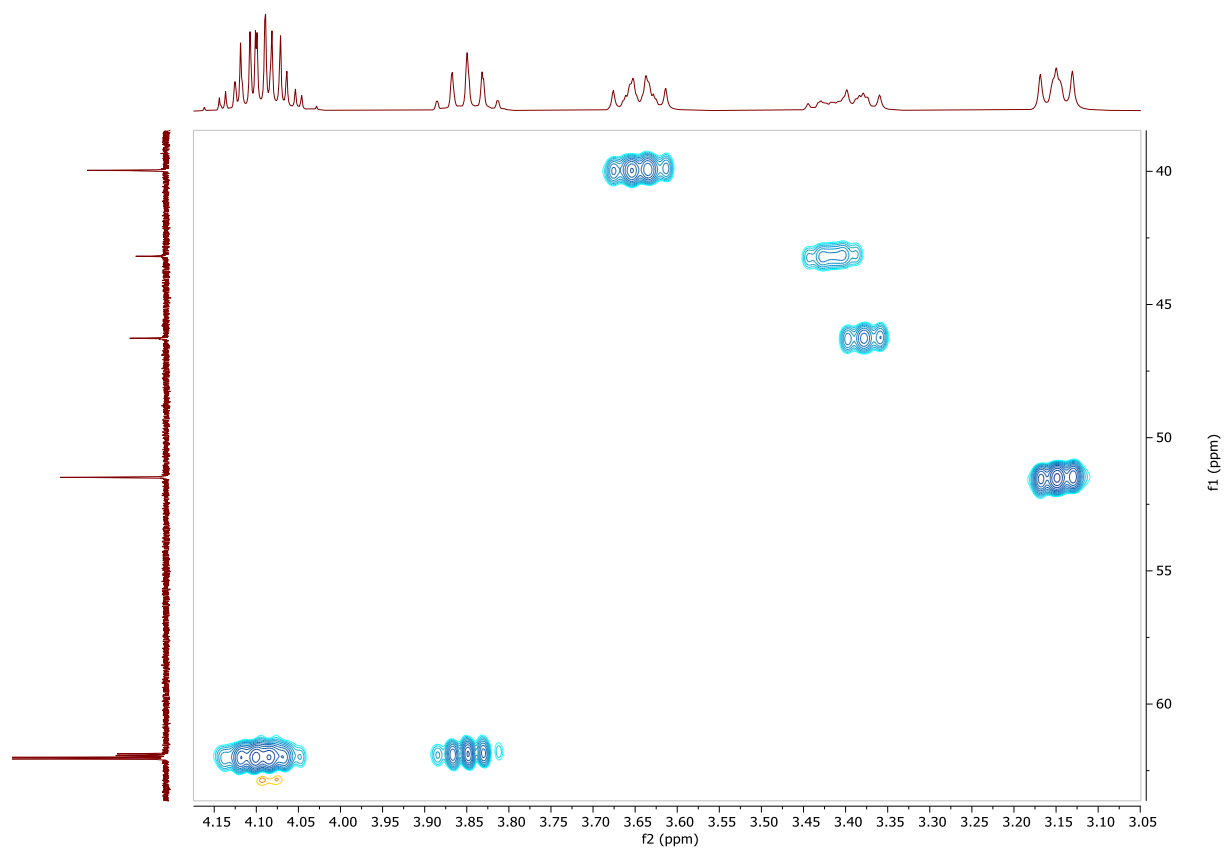
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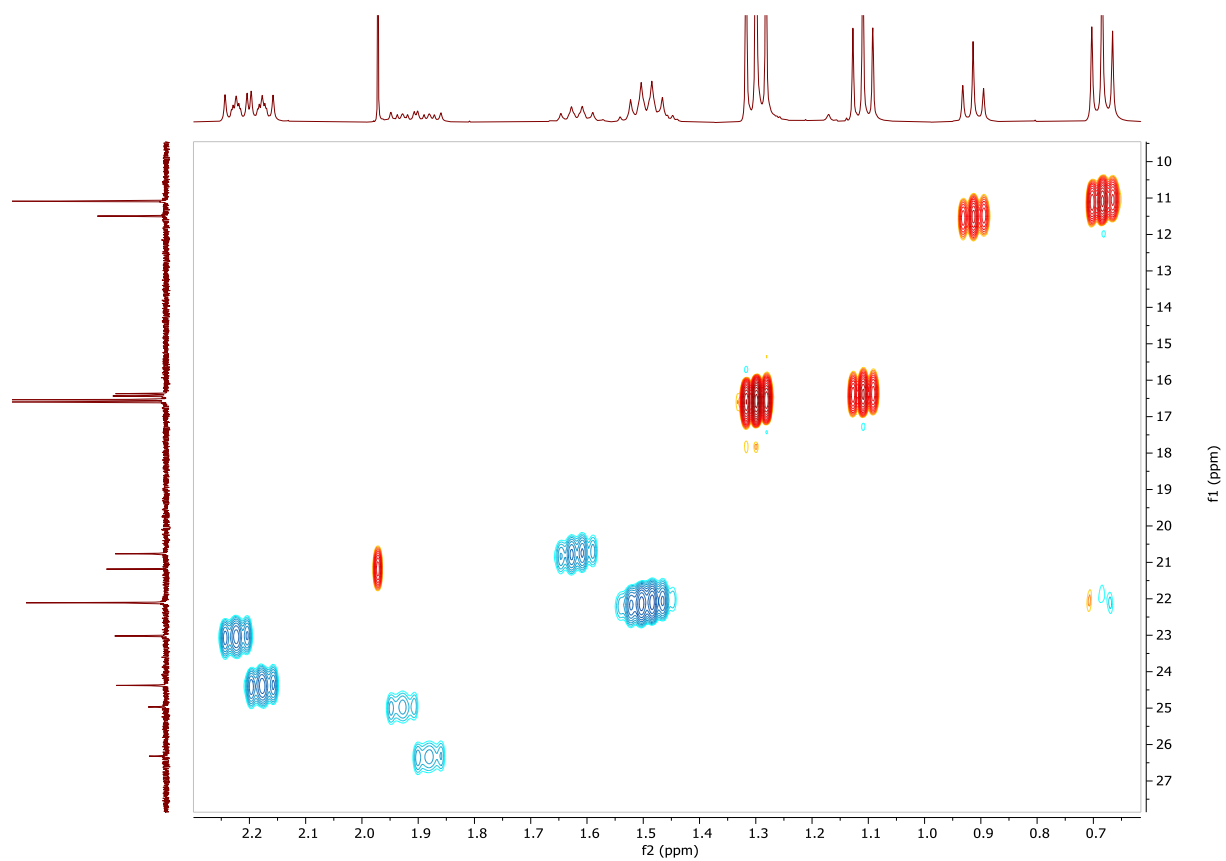
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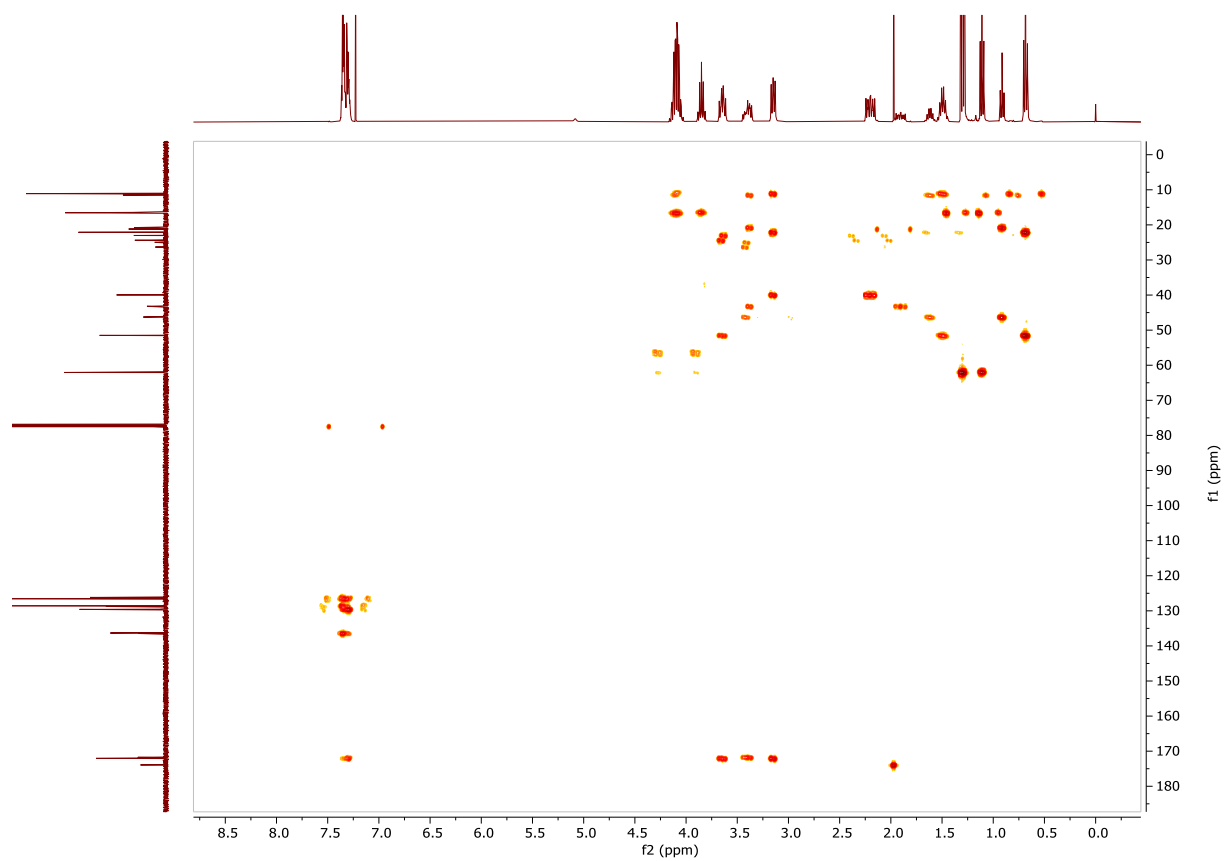
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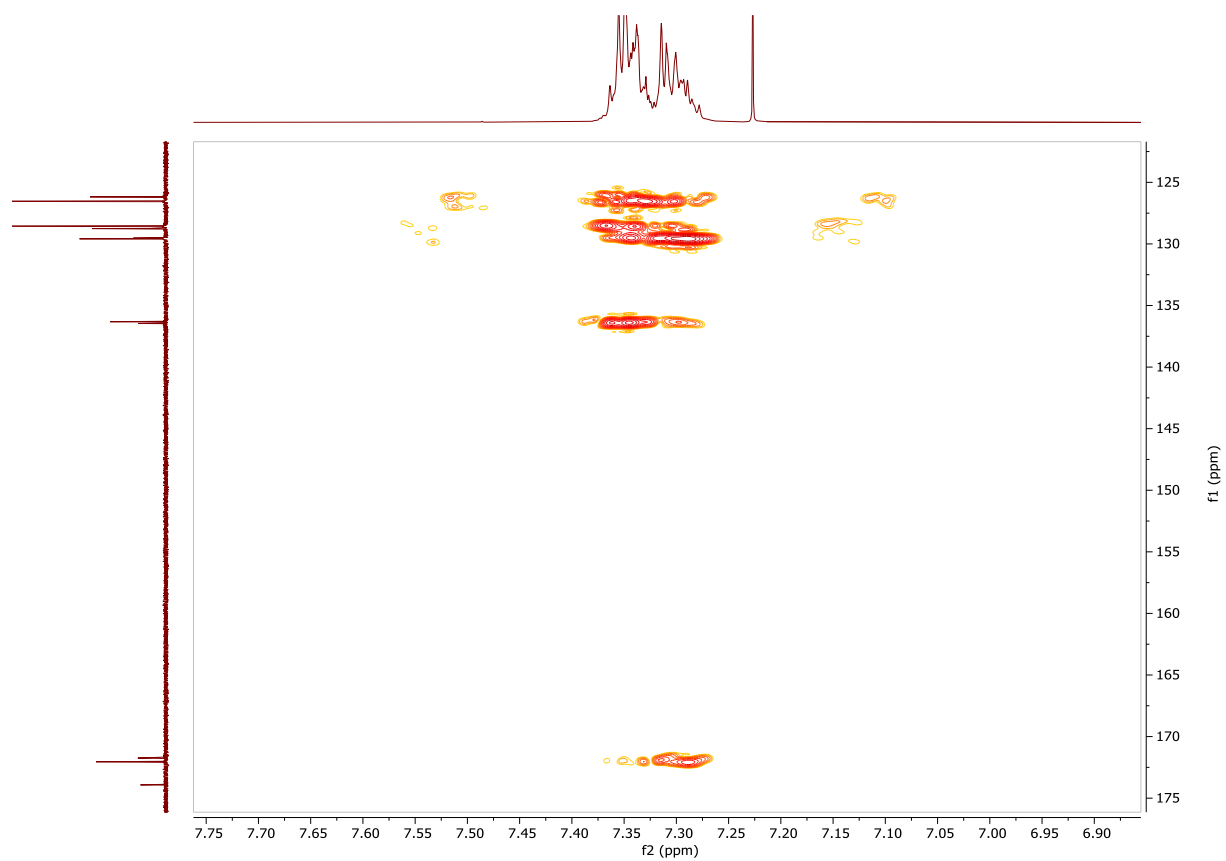
^1H , ^{13}C -HSQC NMR spectrum of **8b** in CDCl_3 (zoomed in)



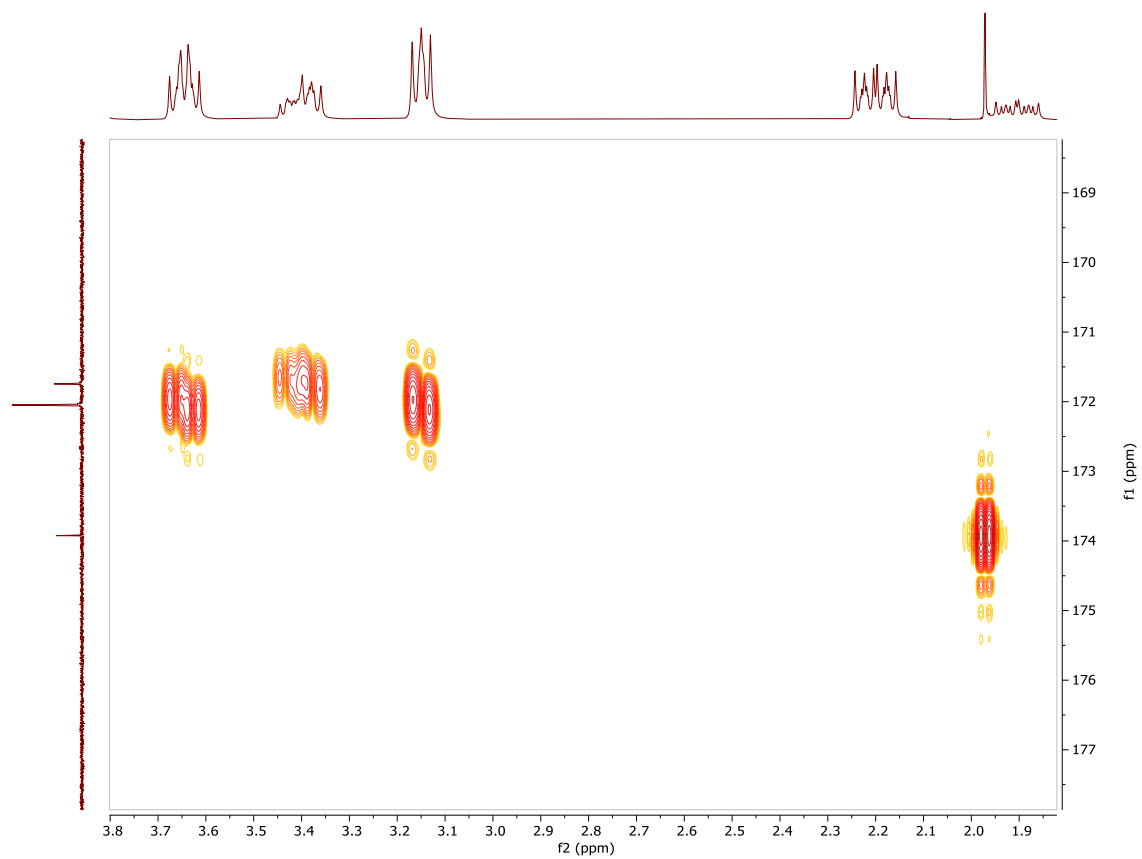
^1H , ^{13}C -HMBC NMR spectrum of **8b** in CDCl_3



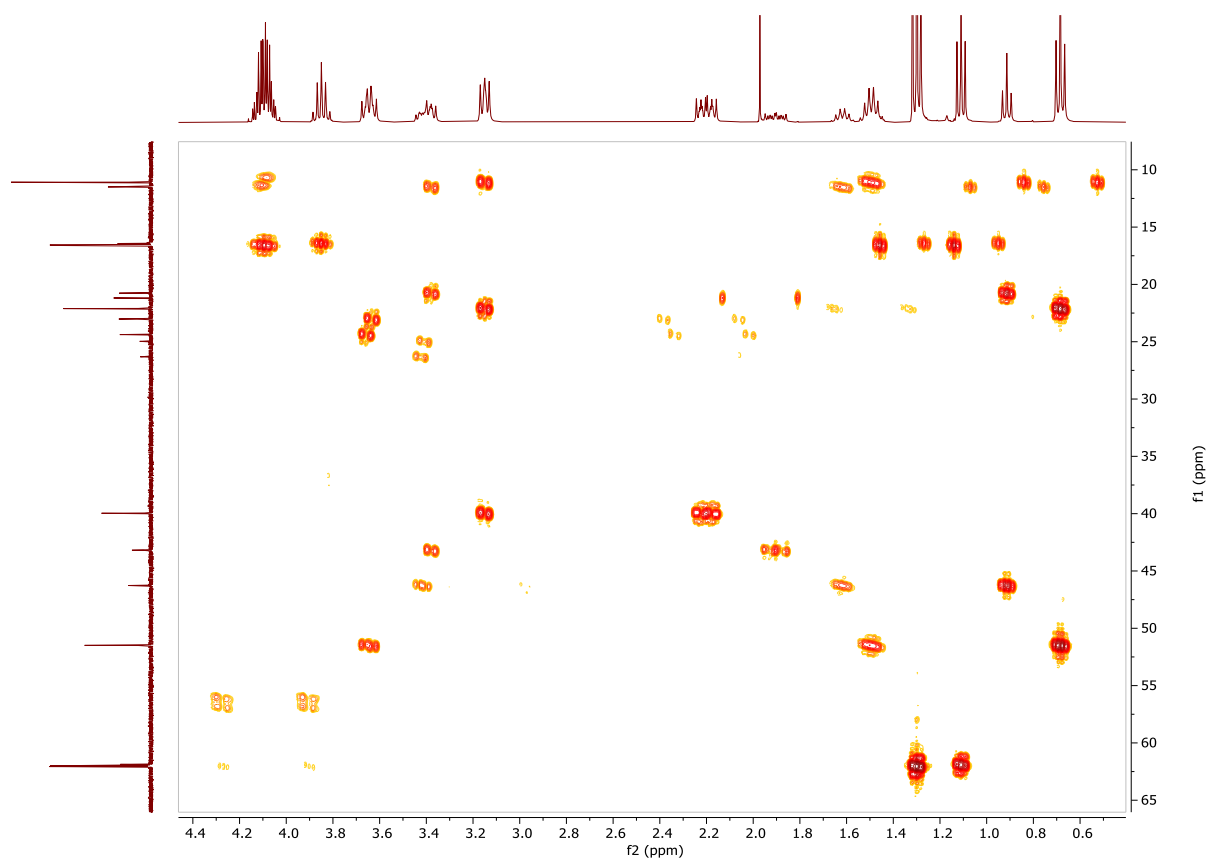
^1H , ^{13}C -HMBC NMR spectrum of **8b** in CDCl_3 (zoomed in)



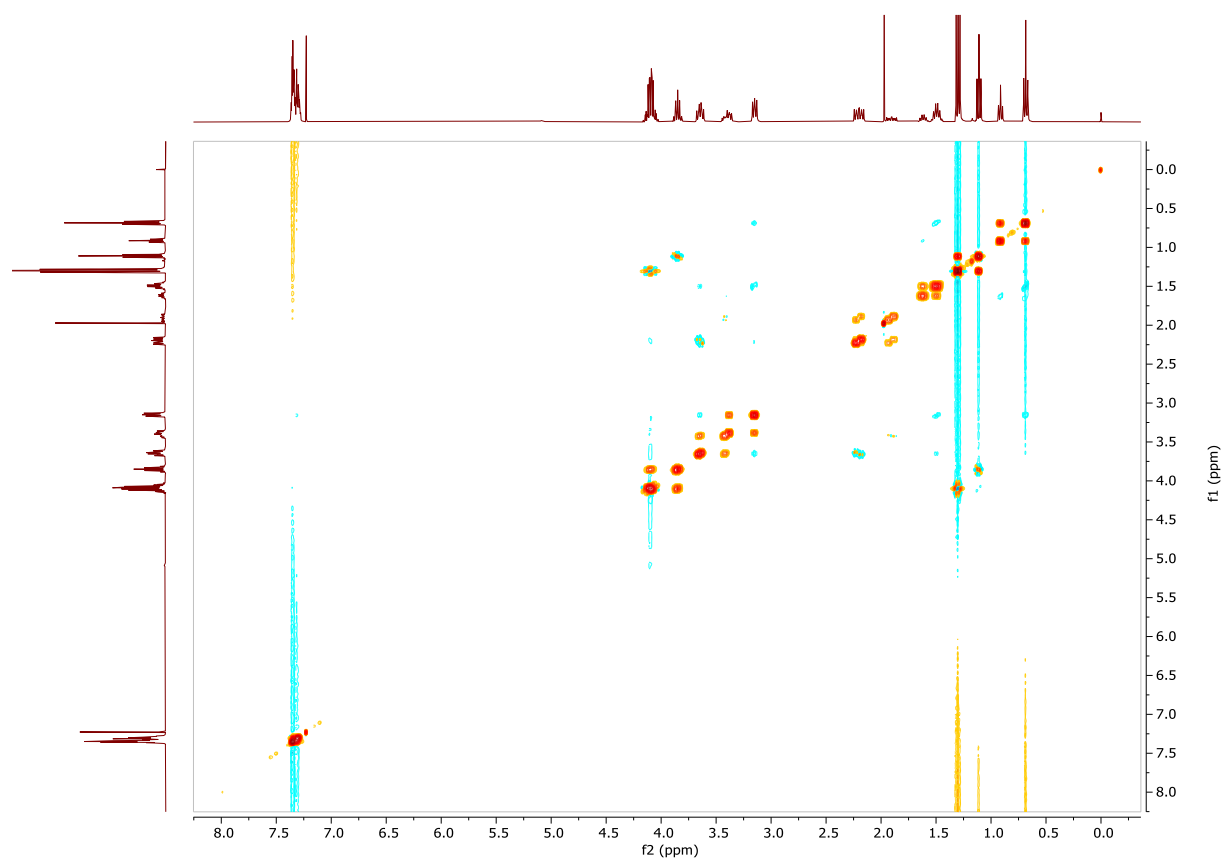
^1H , ^{13}C -HMBC NMR spectrum of **8b** in CDCl_3 (zoomed in)



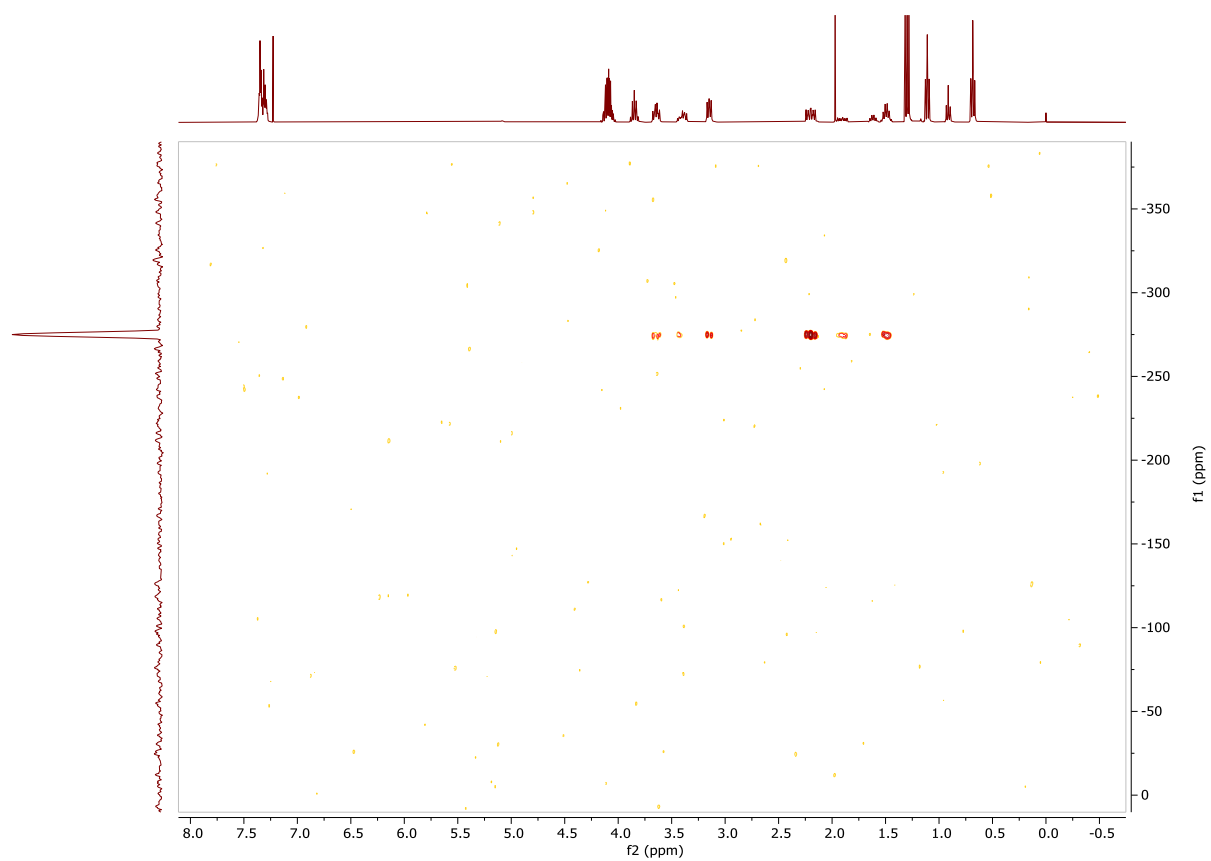
$^1\text{H}, ^{13}\text{C}$ -HMBC NMR spectrum of **8b** in CDCl_3 (zoomed in)



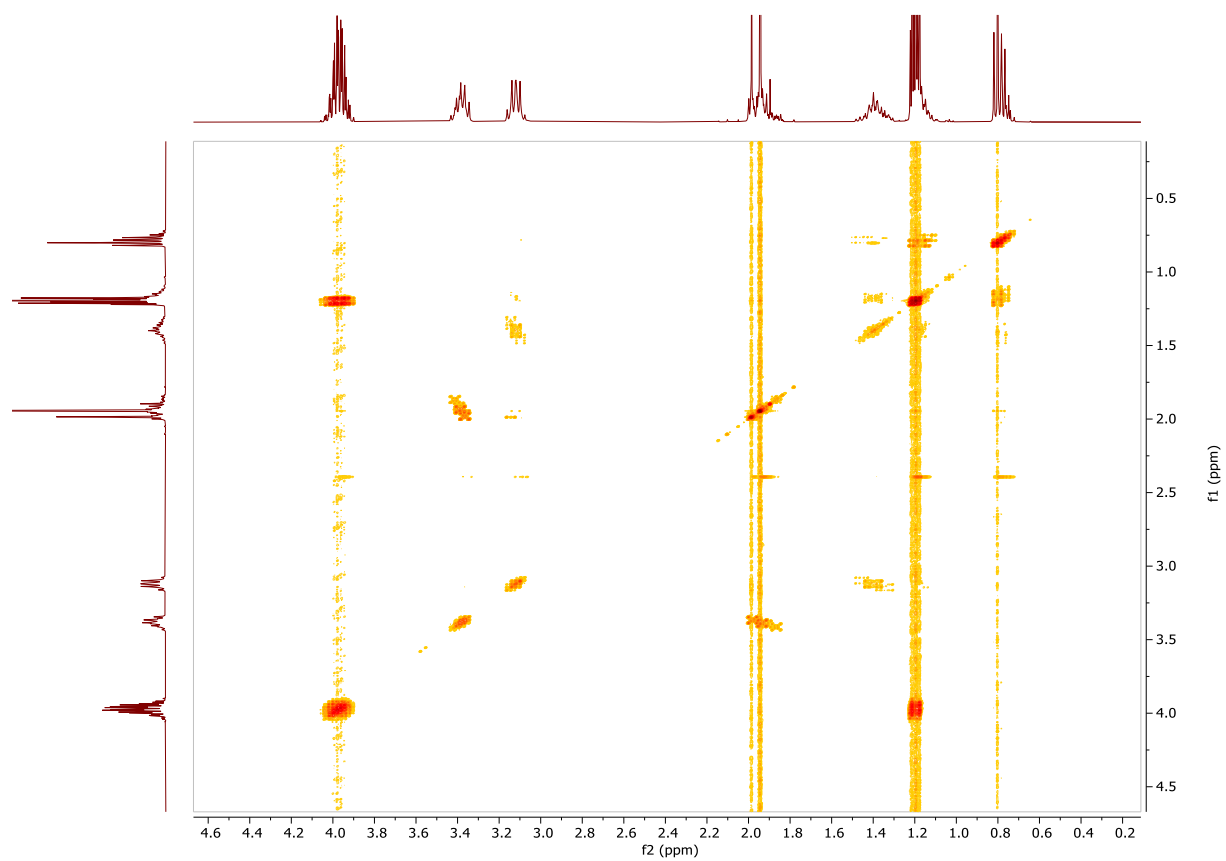
$^1\text{H}, ^1\text{H}$ -NOESY NMR spectrum of **8b** in CDCl_3



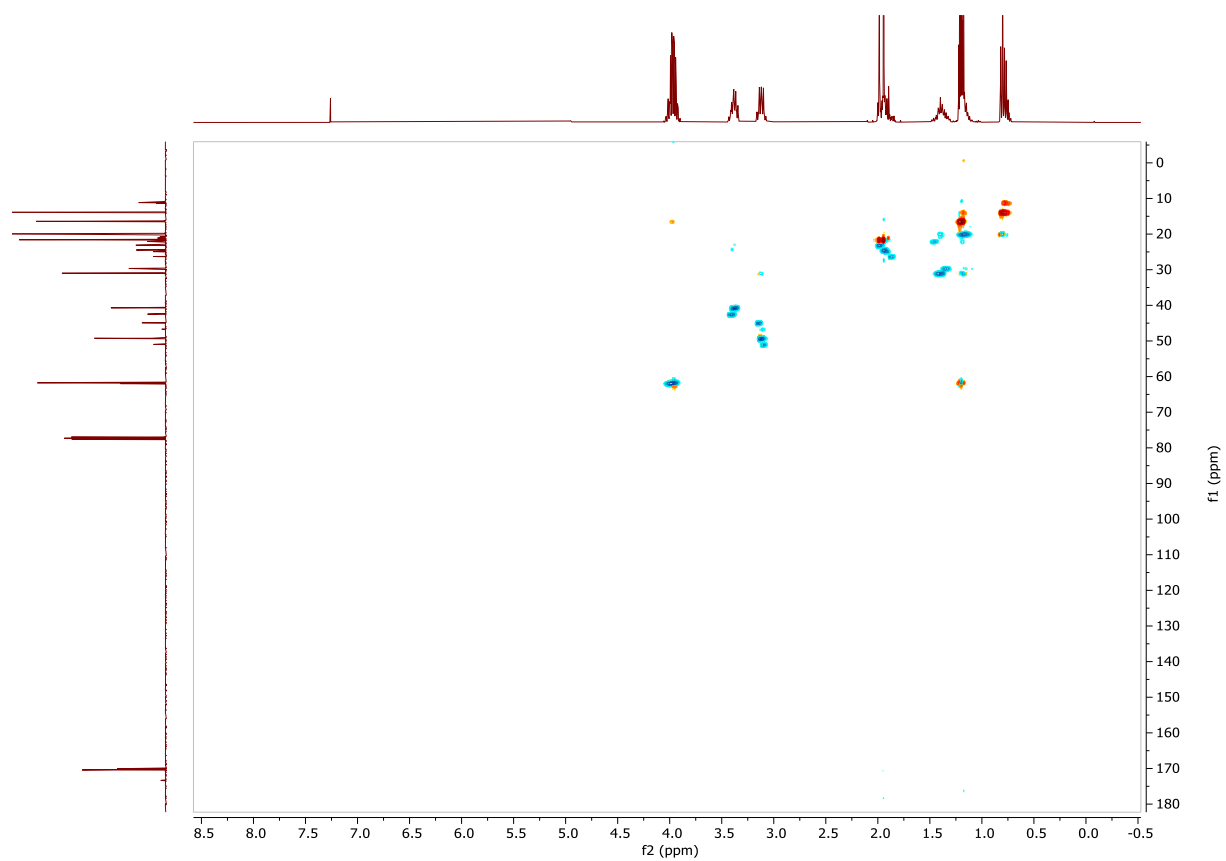
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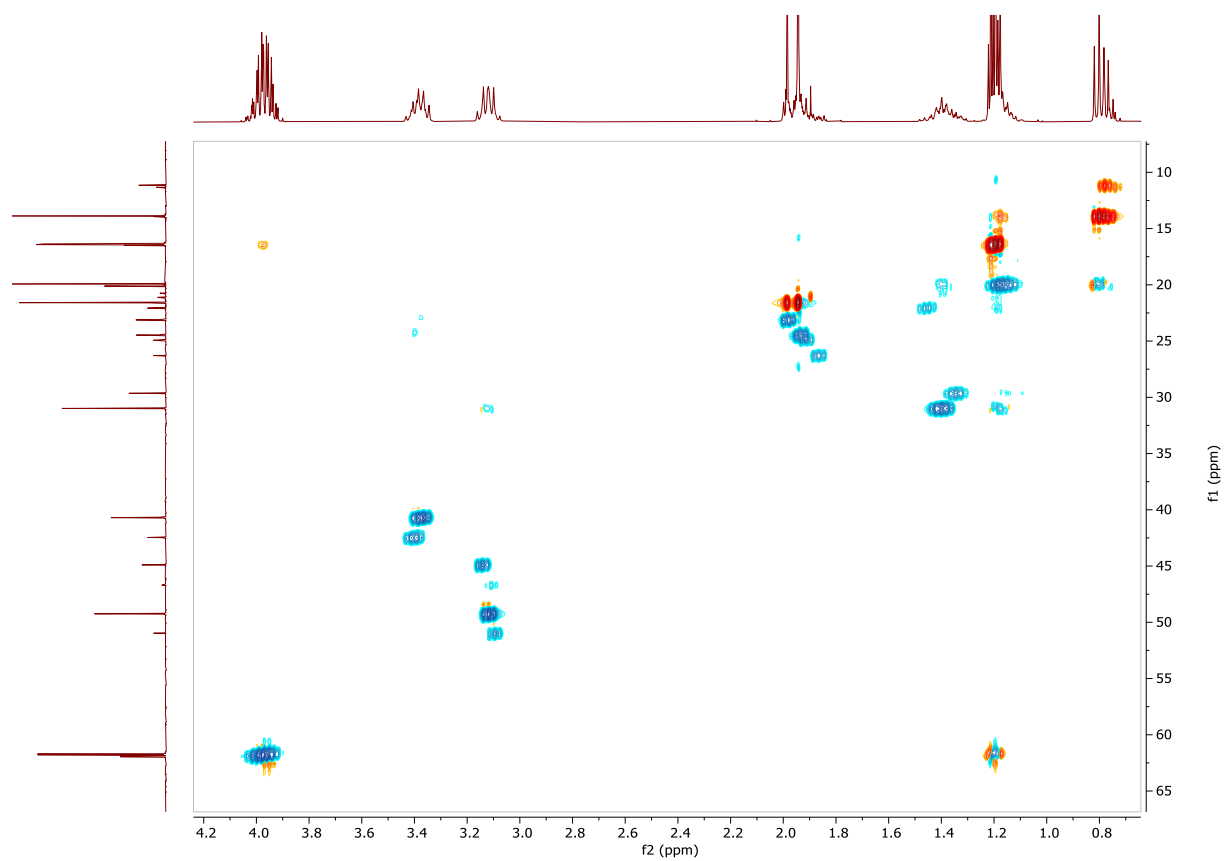
$^1\text{H}, ^1\text{H}$ -COSY NMR spectrum of **9a** in CDCl_3



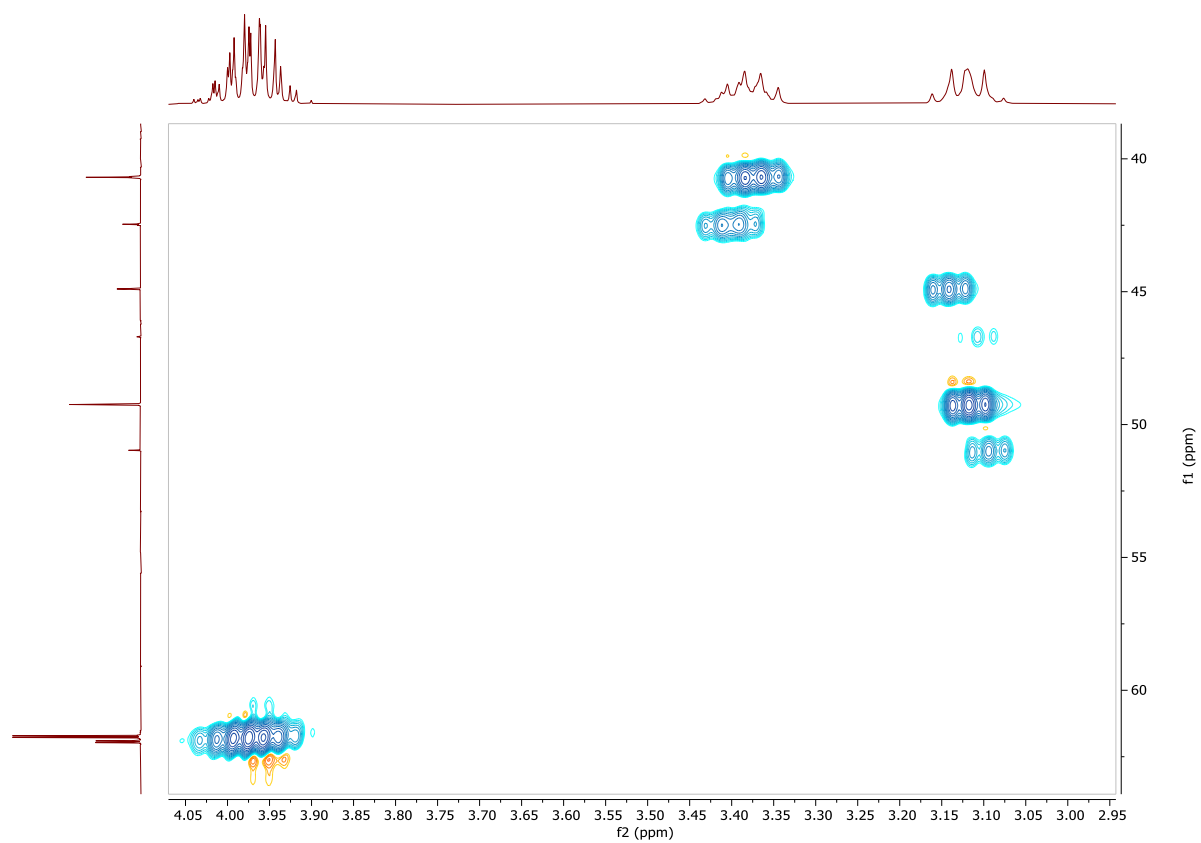
^1H , ^{13}C -HSQC NMR spectrum of **9a** in CDCl_3



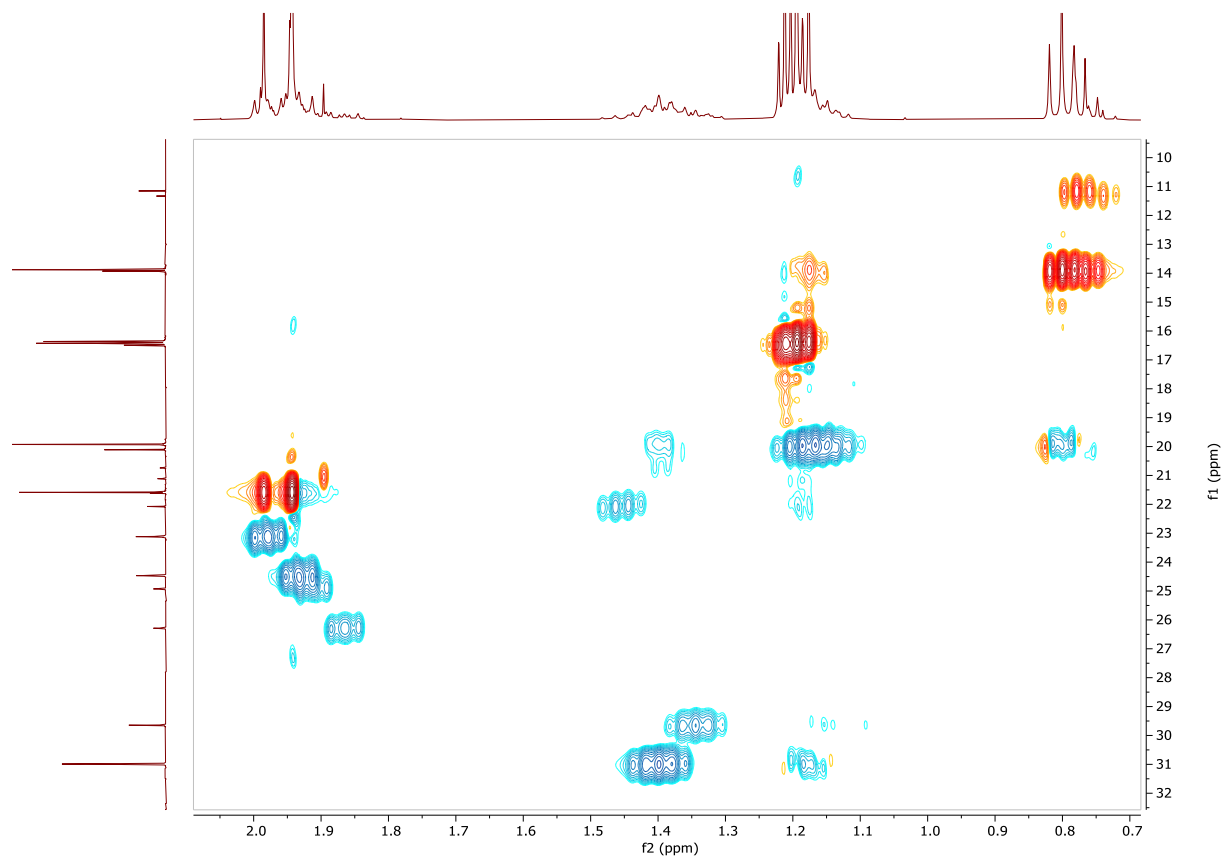
^1H , ^{13}C -HSQC NMR spectrum of **9a** in CDCl_3 (zoomed in)



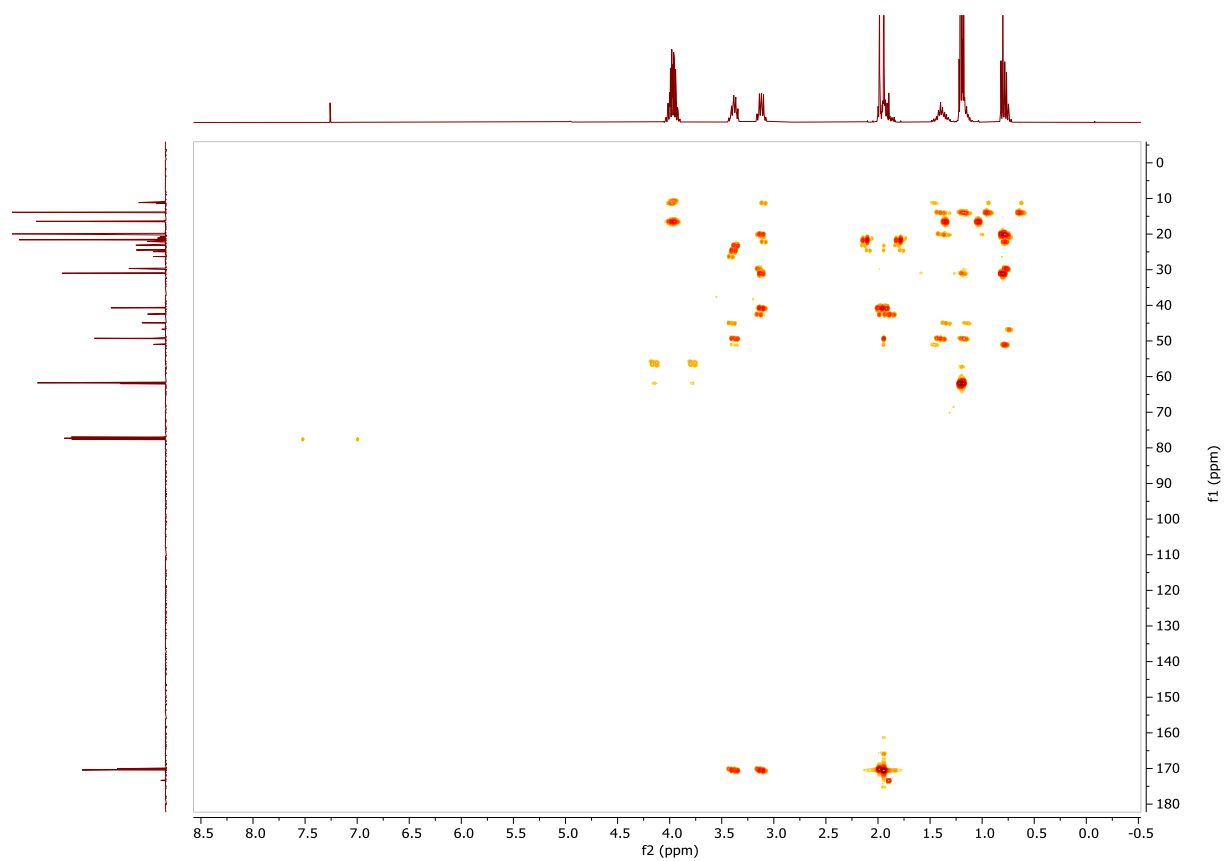
^1H , ^{13}C -HSQC NMR spectrum of **9a** in CDCl_3 (zoomed in)



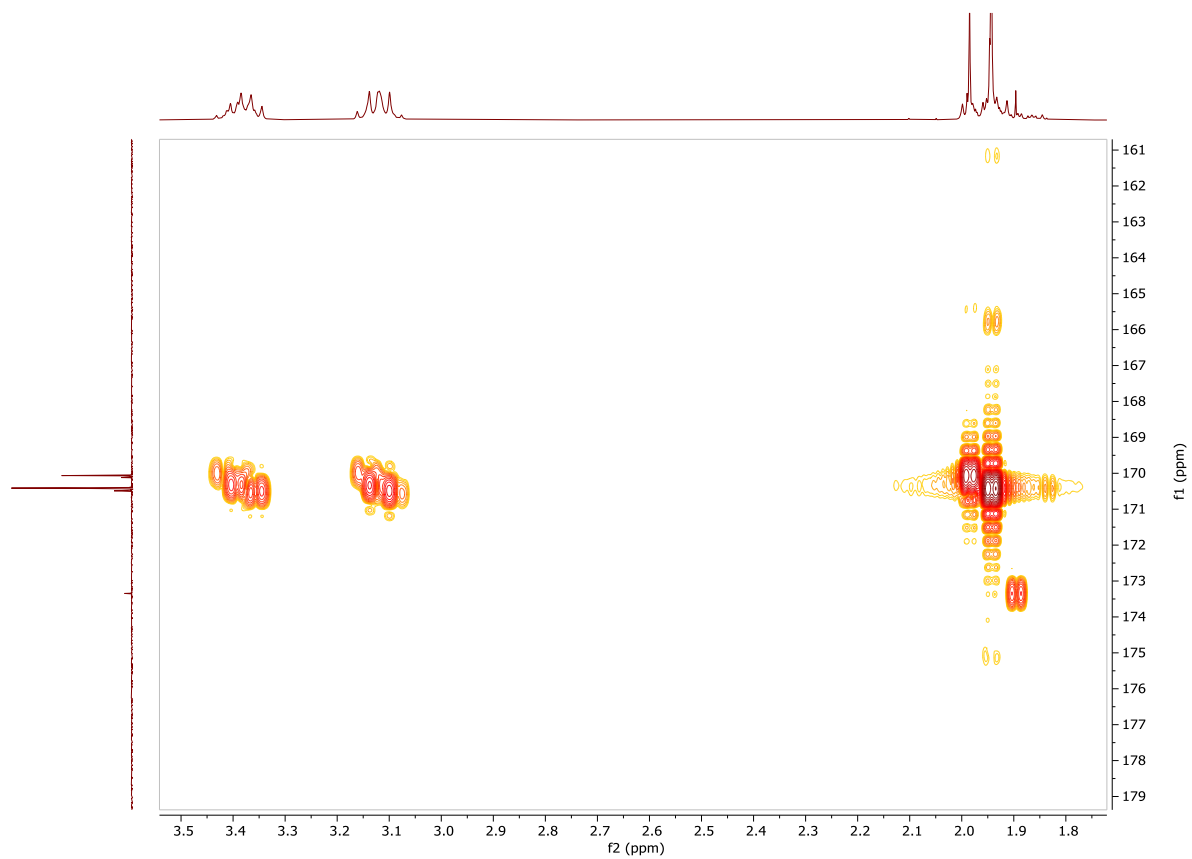
^1H , ^{13}C -HSQC NMR spectrum of **9a** in CDCl_3 (zoomed in)



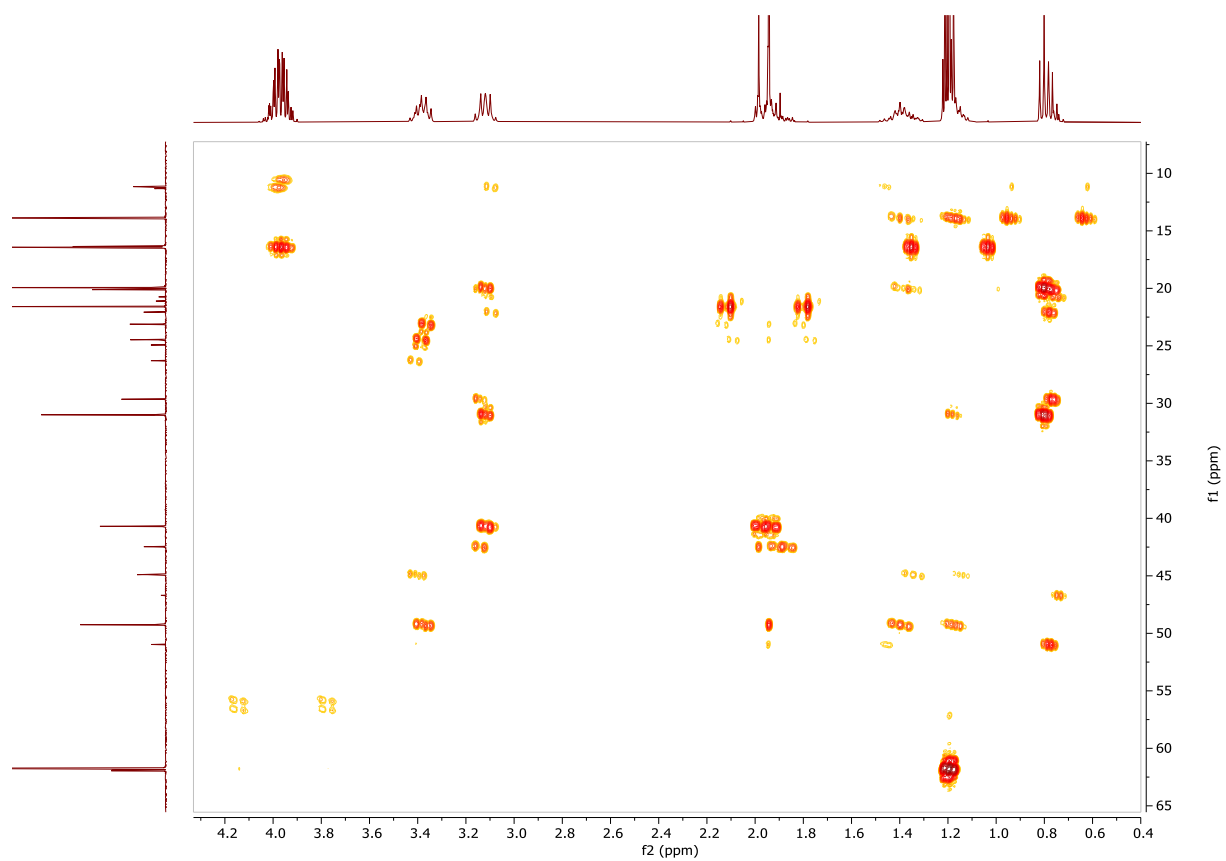
^1H , ^{13}C -HMBC NMR spectrum of **9a** in CDCl_3



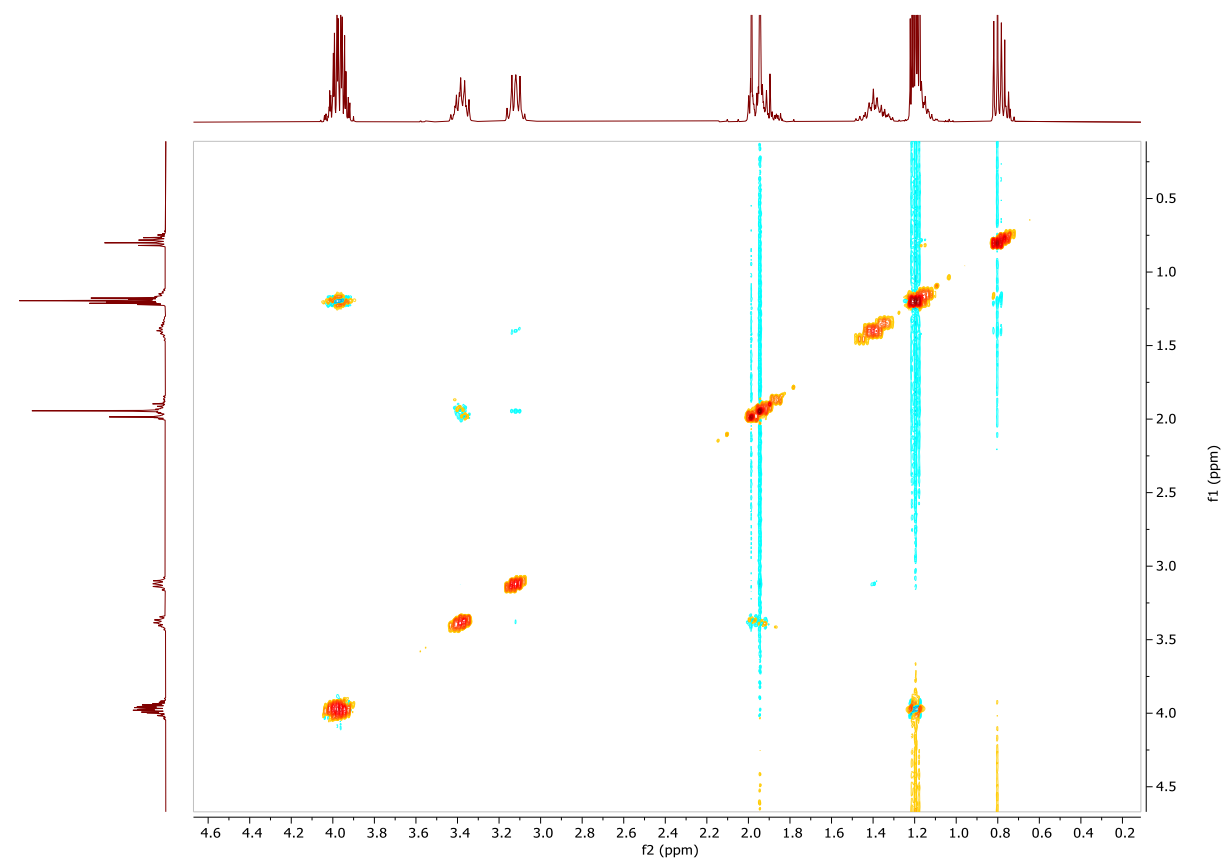
^1H , ^{13}C -HMBC NMR spectrum of **9a** in CDCl_3 (zoomed in)



$^1\text{H}, ^{13}\text{C}$ -HMBC NMR spectrum of **9a** in CDCl_3 (zoomed in)



$^1\text{H}, ^1\text{H}$ -NOESY NMR spectrum of **9a** in CDCl_3



^1H , ^{15}N -HMBC NMR spectrum of **9a** in CDCl_3

