

Supporting information

Synthesis and Anti-Pim-1/2 Kinase Activity of Potassium 6-oxo-7,13,16,22-tetraazatetracyclo[12.6.2.1^{8,12}.0^{17,21}]tricos-1(20),8,10,12(23),14(22),15(16),17,18-octaen-2-yne-15-carboxylate

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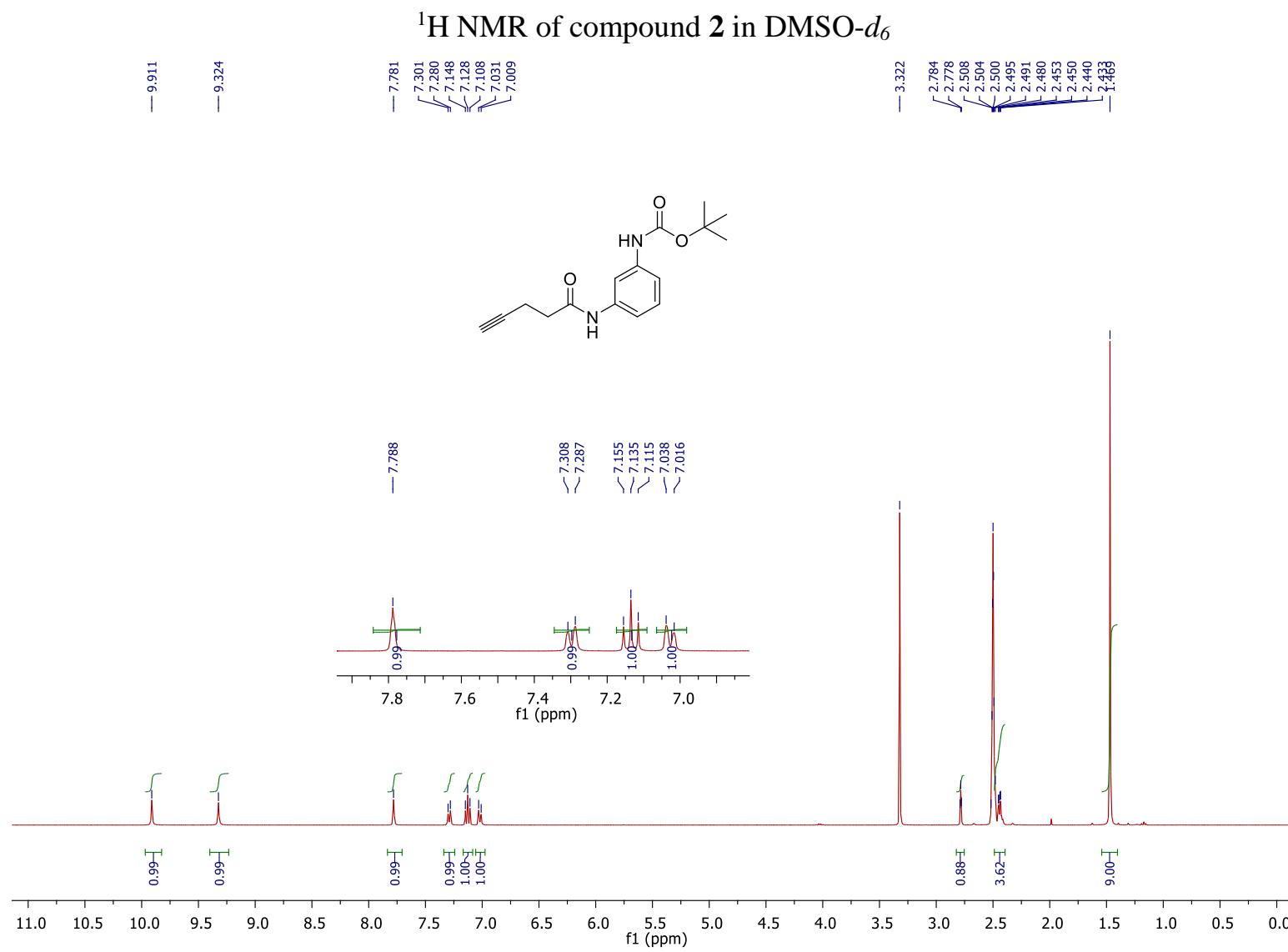
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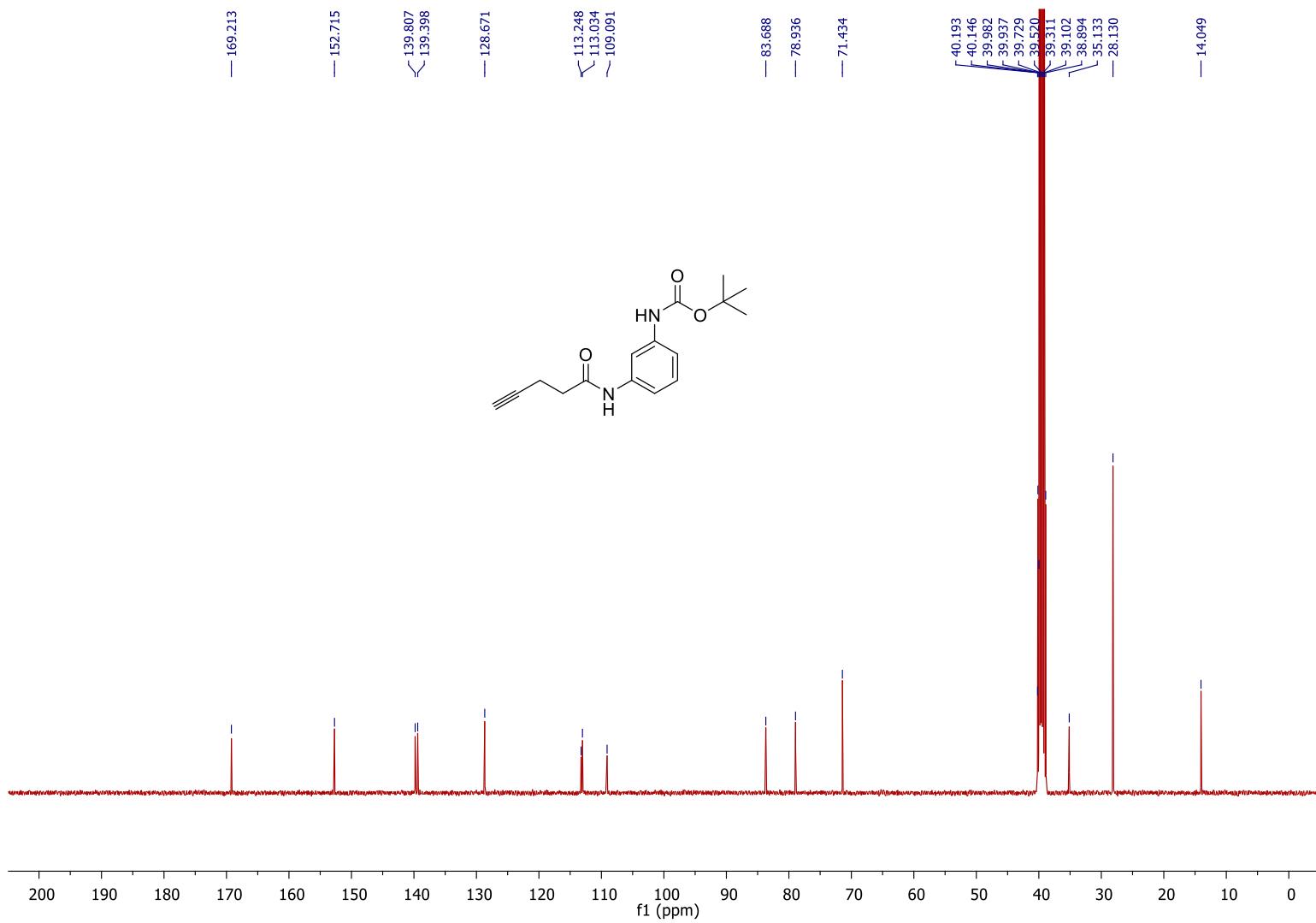
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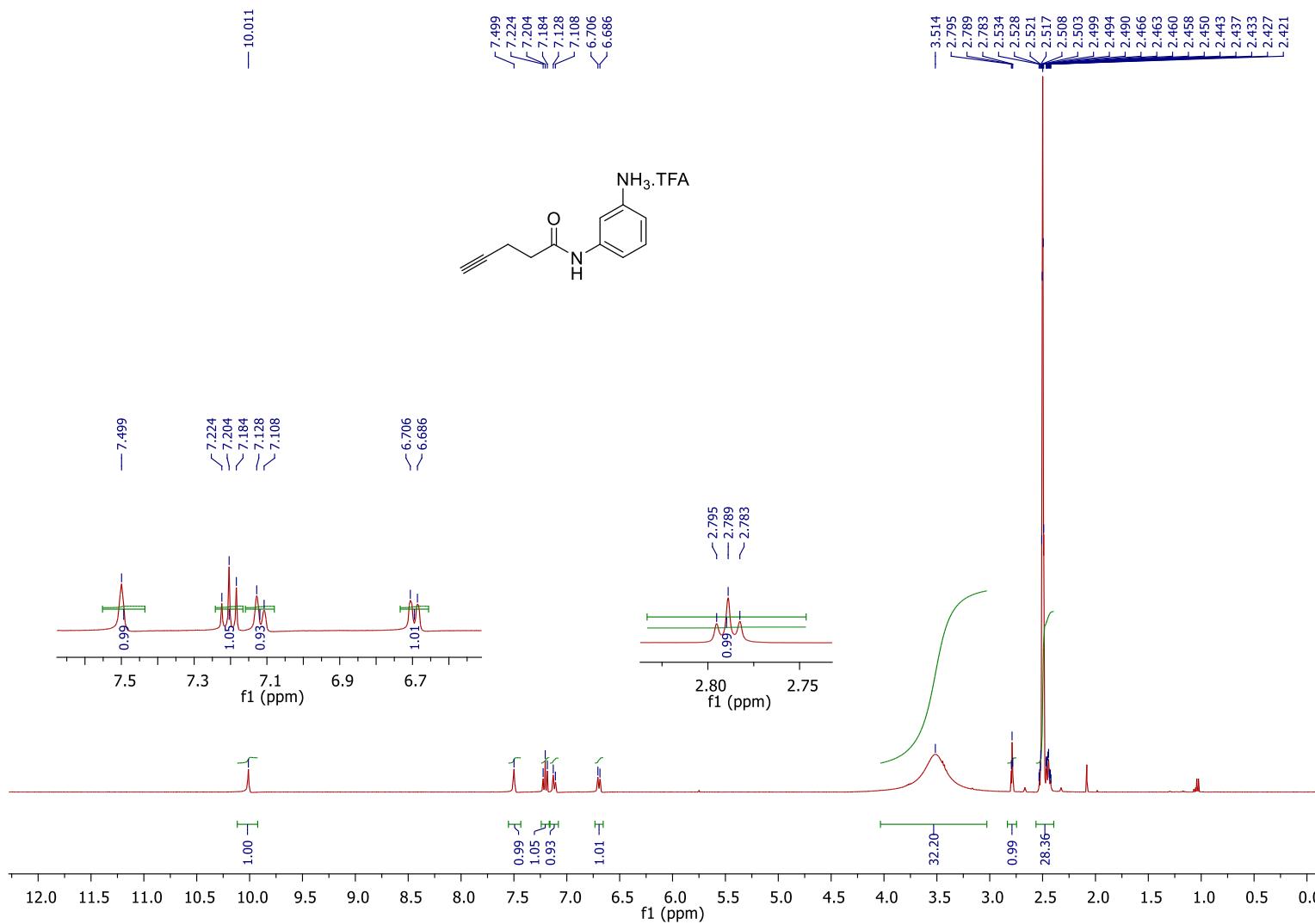
1. NMR spectra



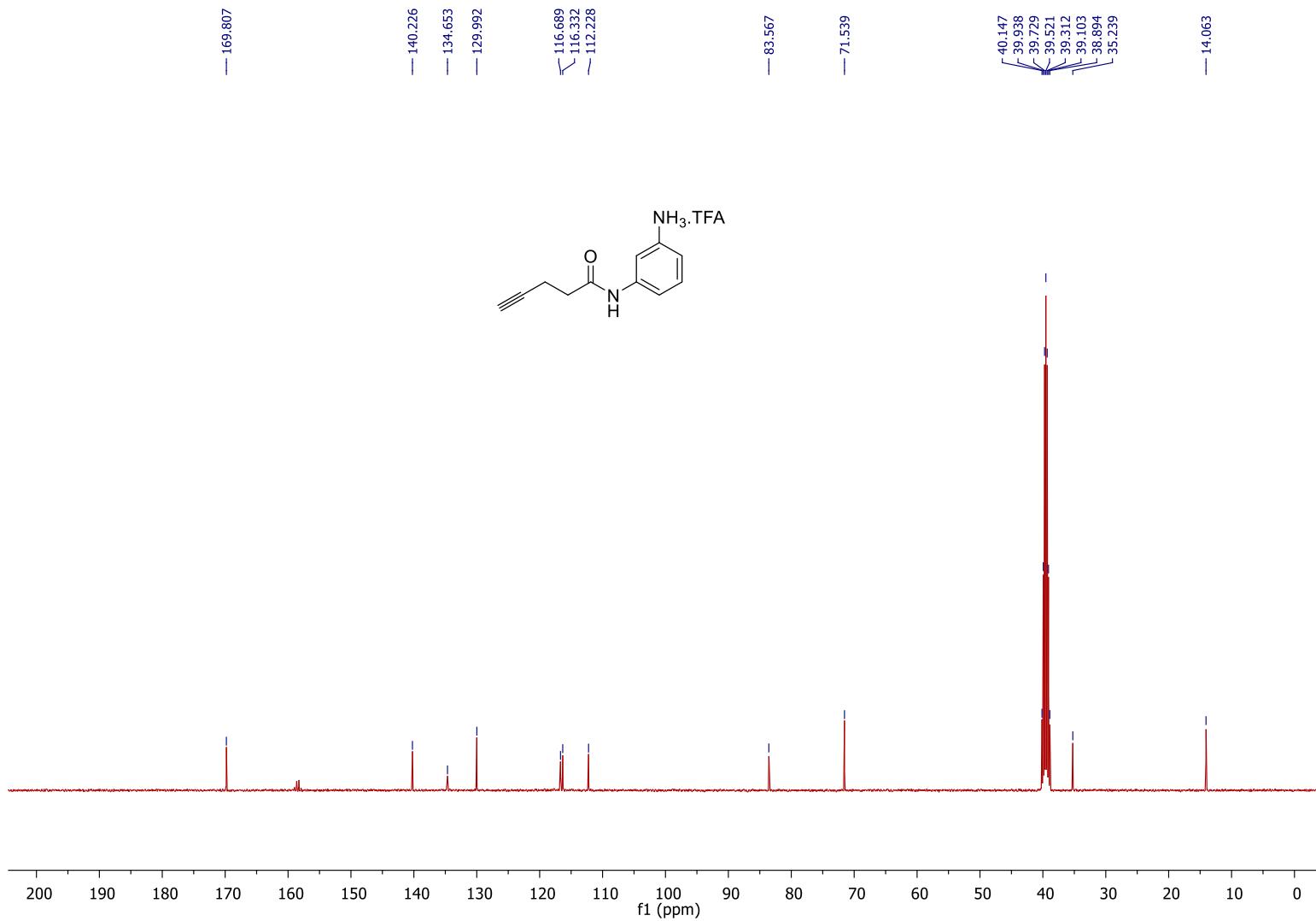
¹³C NMR of compound **2** in DMSO-*d*₆



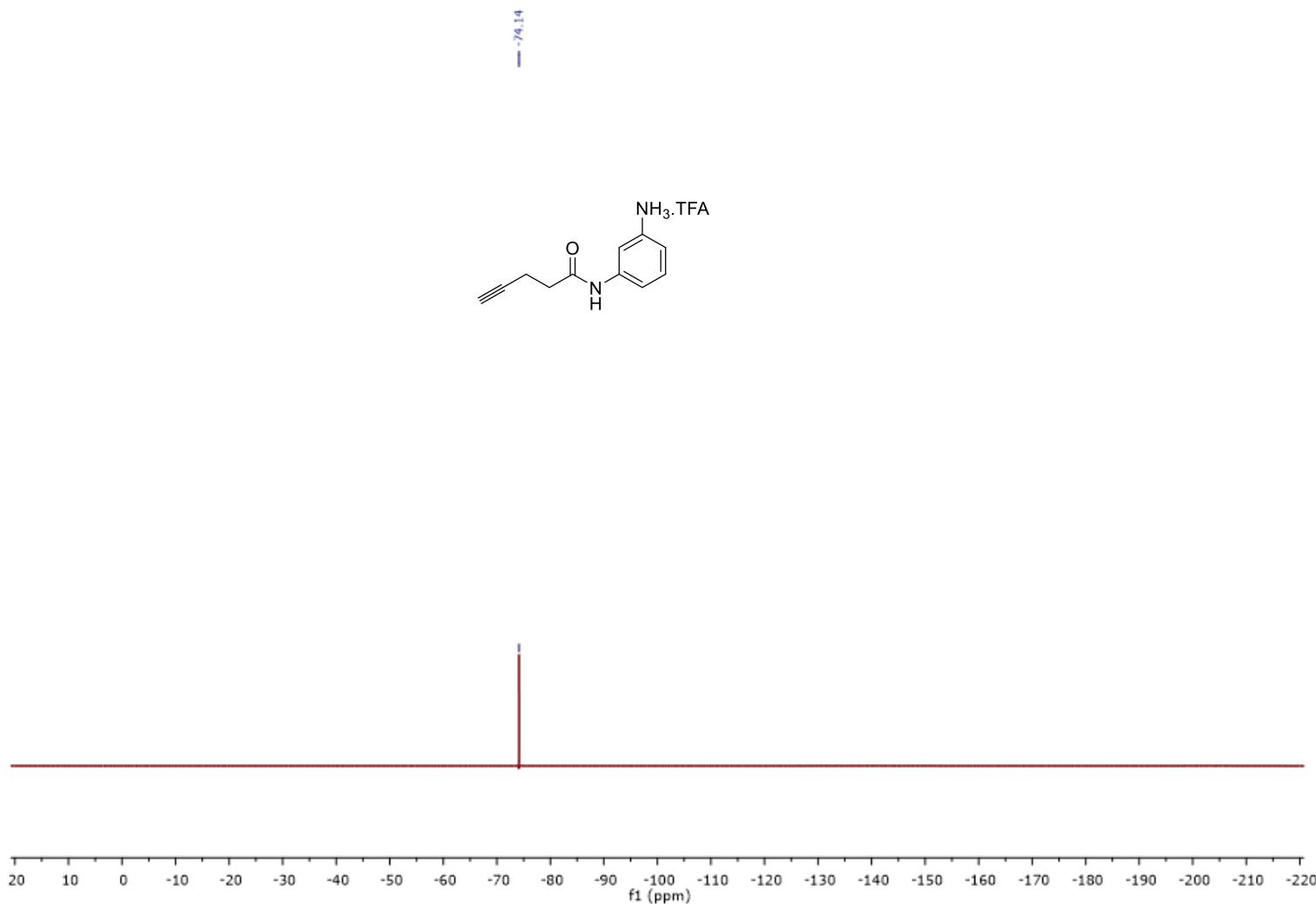
¹H NMR of compound **3** in DMSO-*d*₆



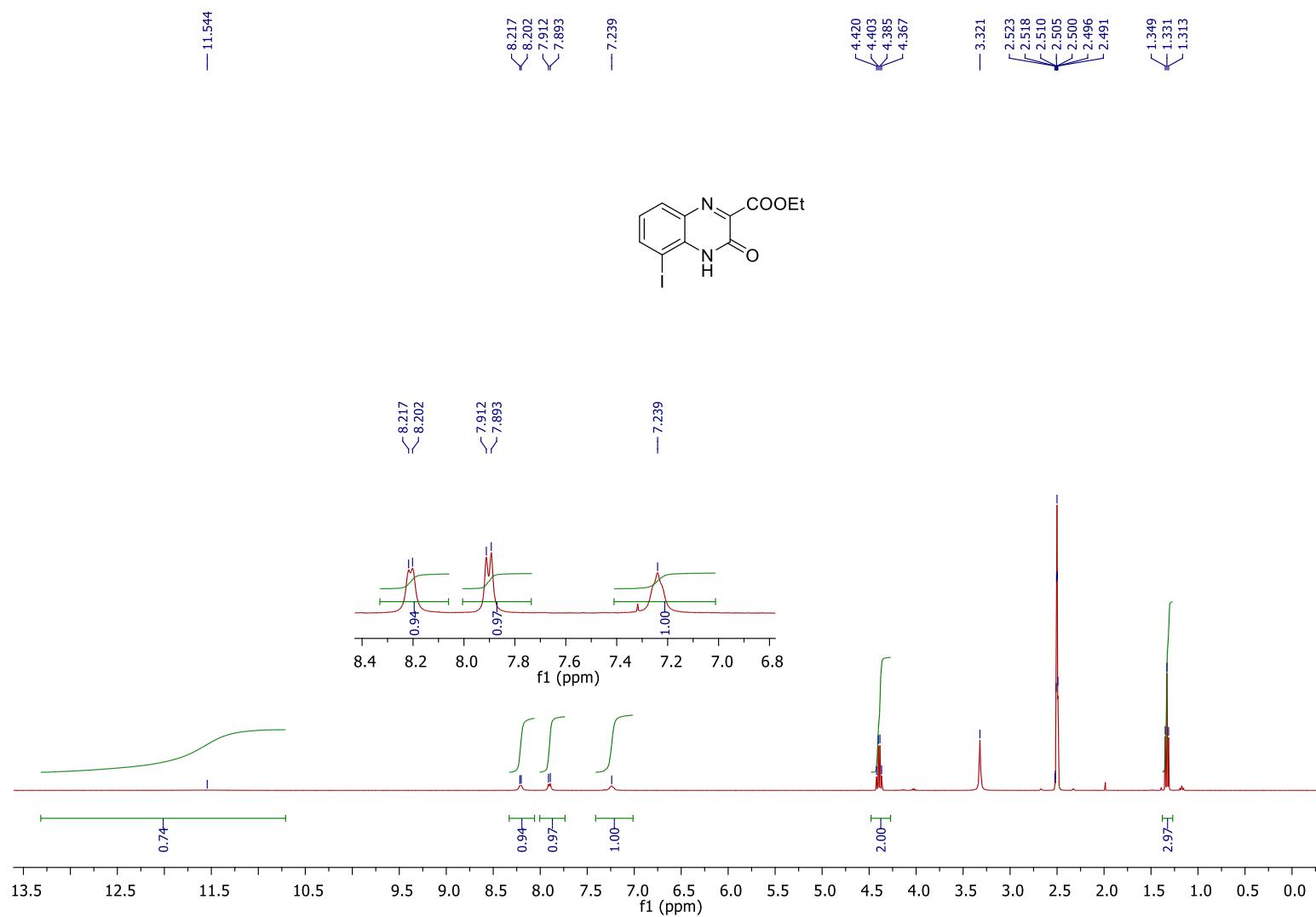
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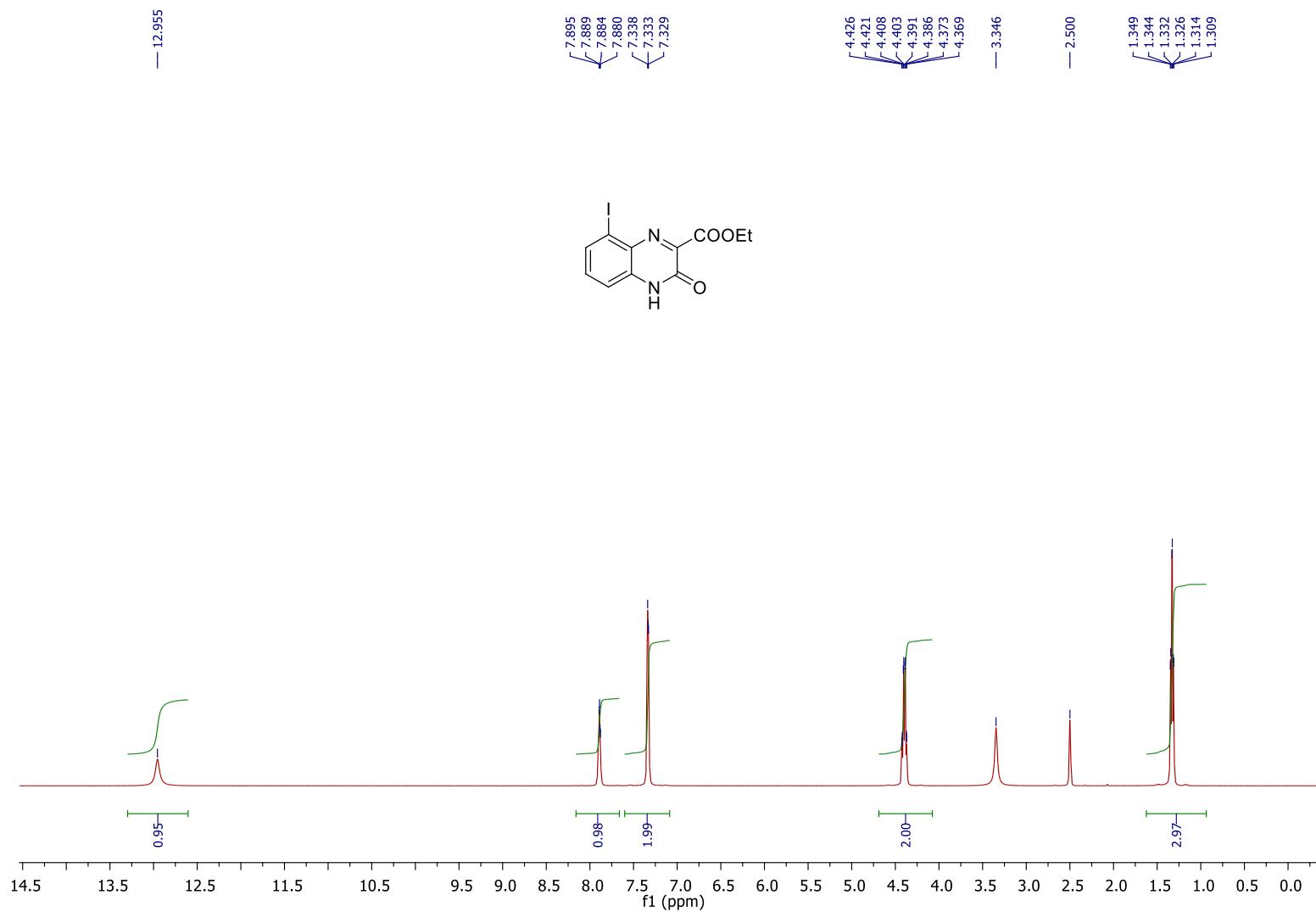
¹⁹F NMR of compound **3** in DMSO-*d*₆



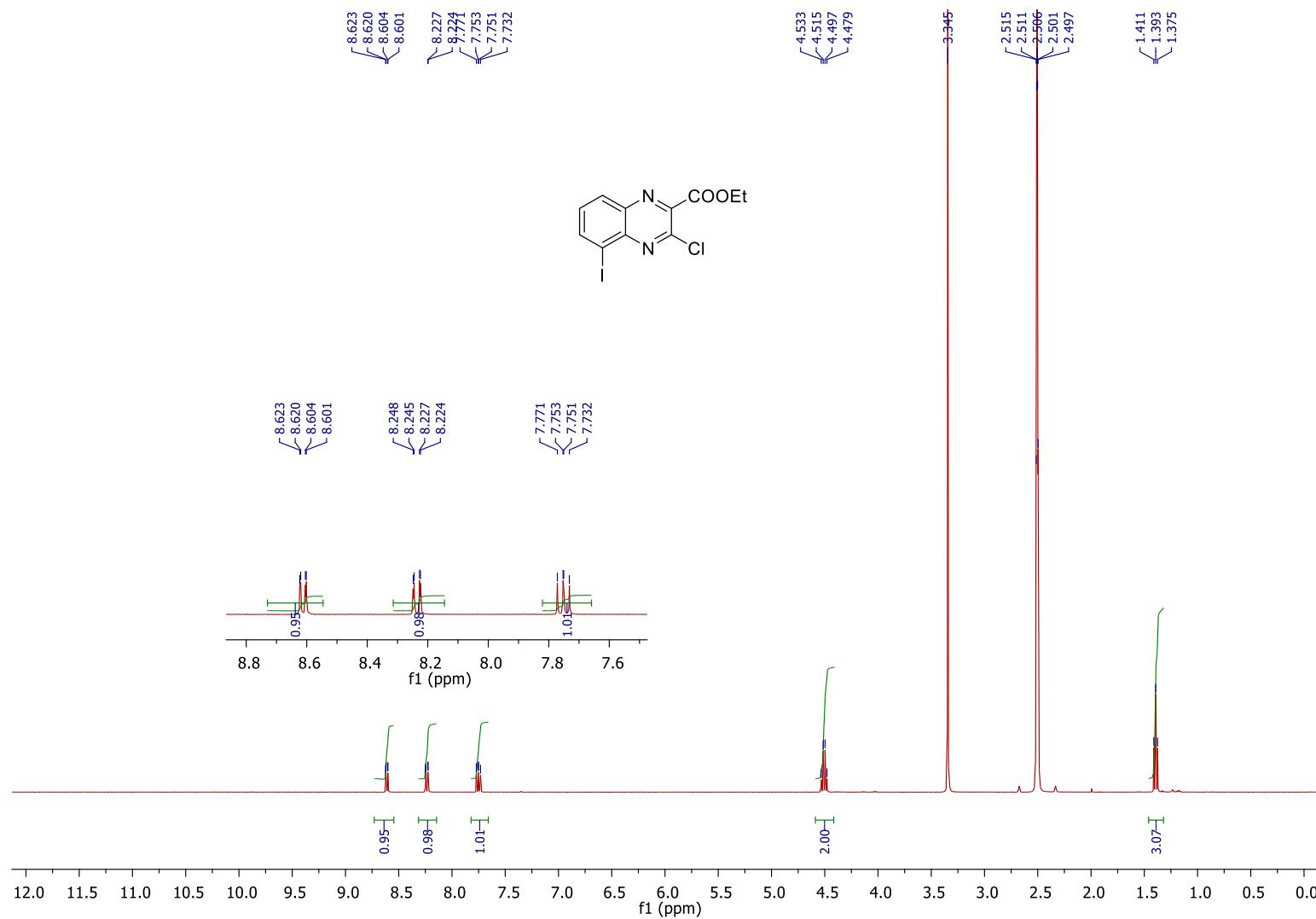
¹H NMR of compound **4a** in DMSO-*d*₆



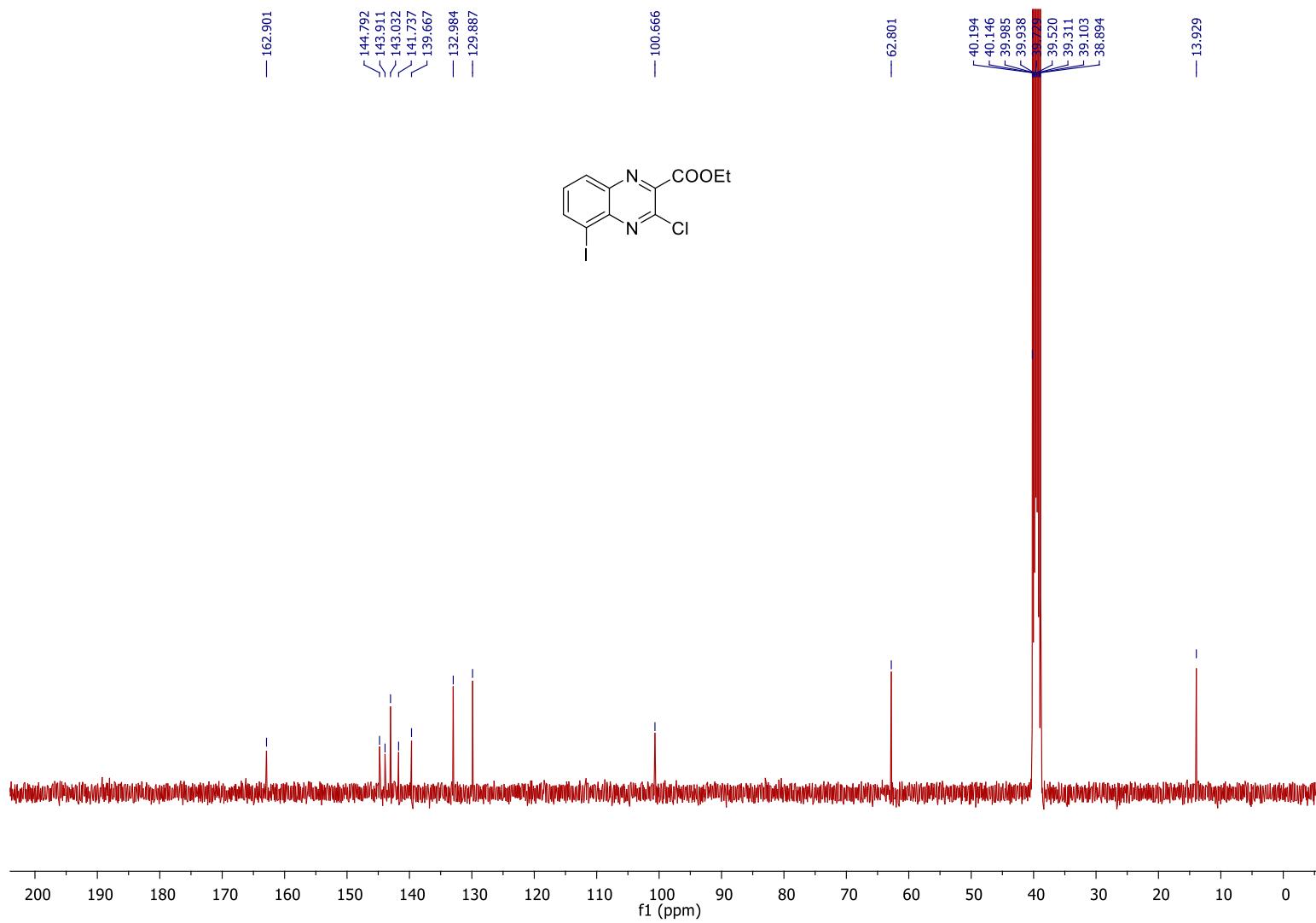
¹H NMR of compound **4b** in DMSO-*d*₆



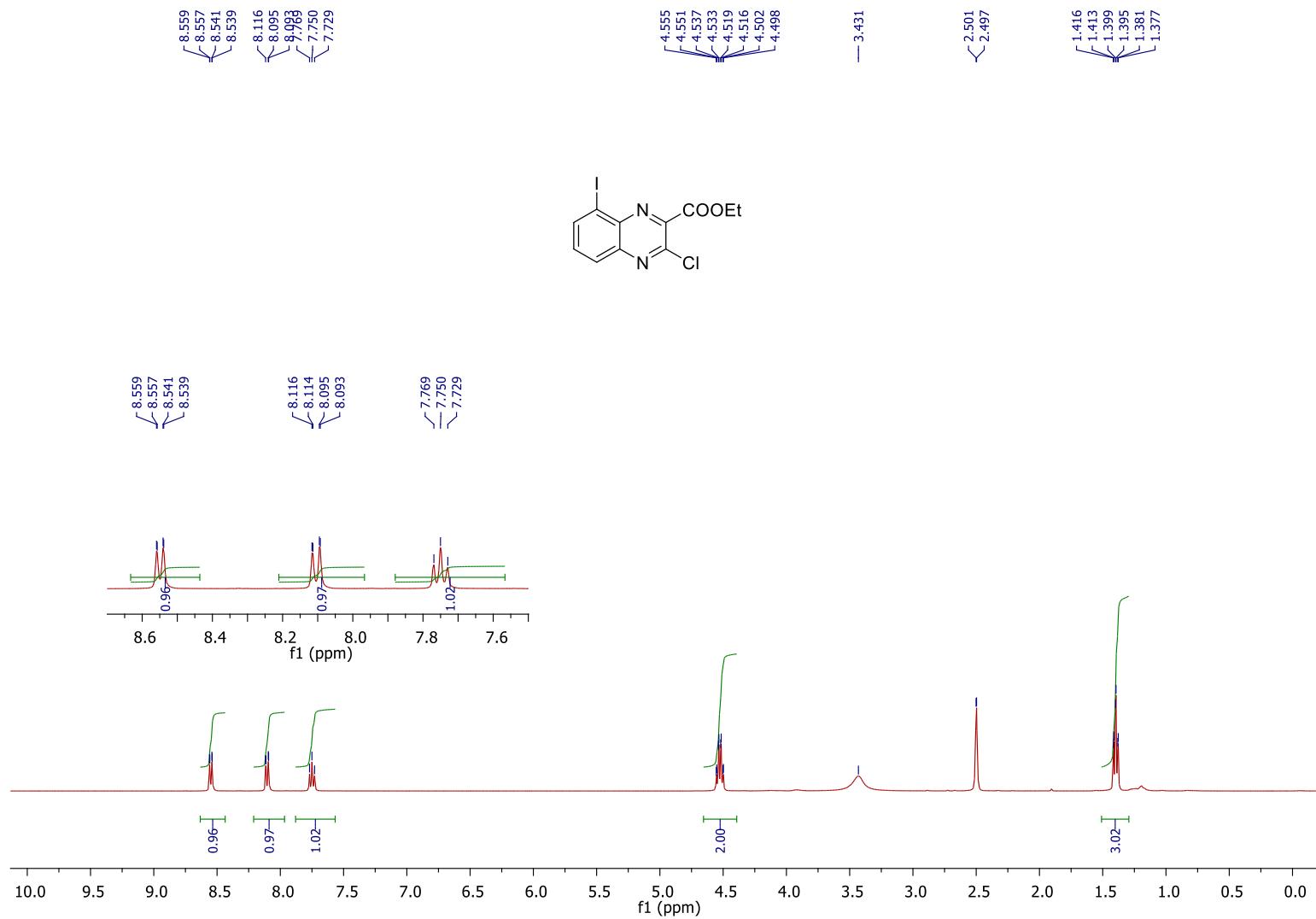
¹H NMR of compound **5a** in DMSO-*d*₆



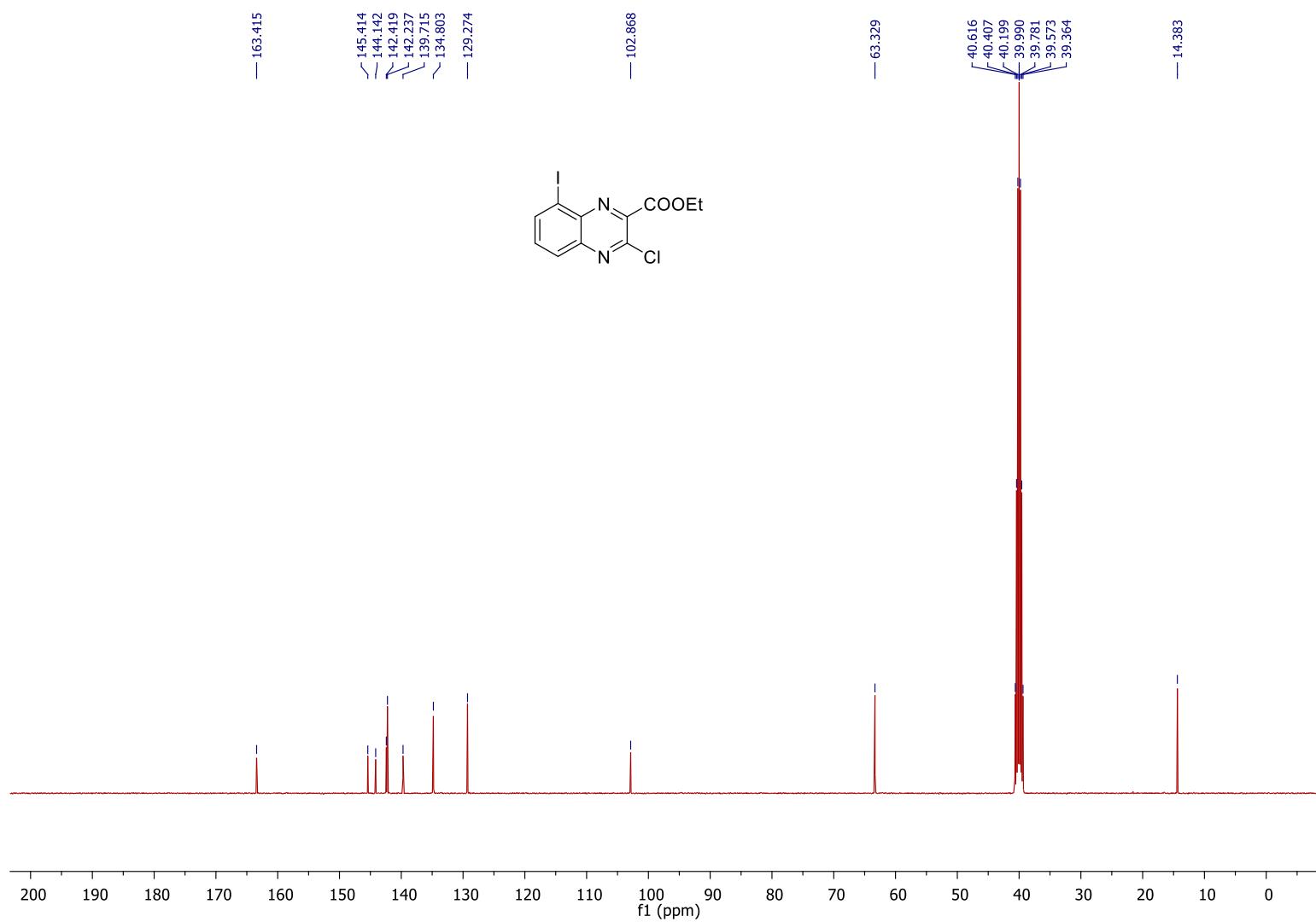
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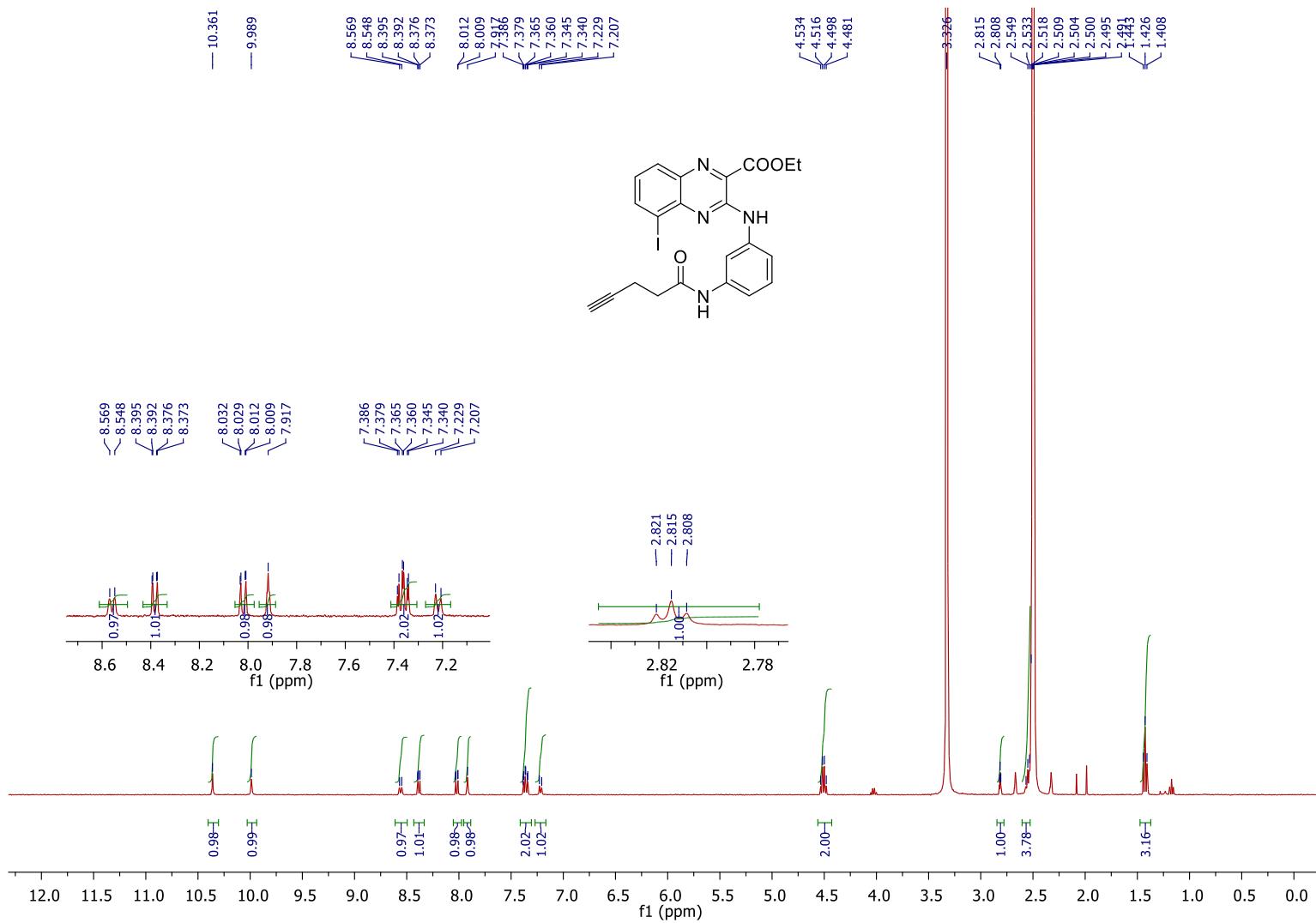
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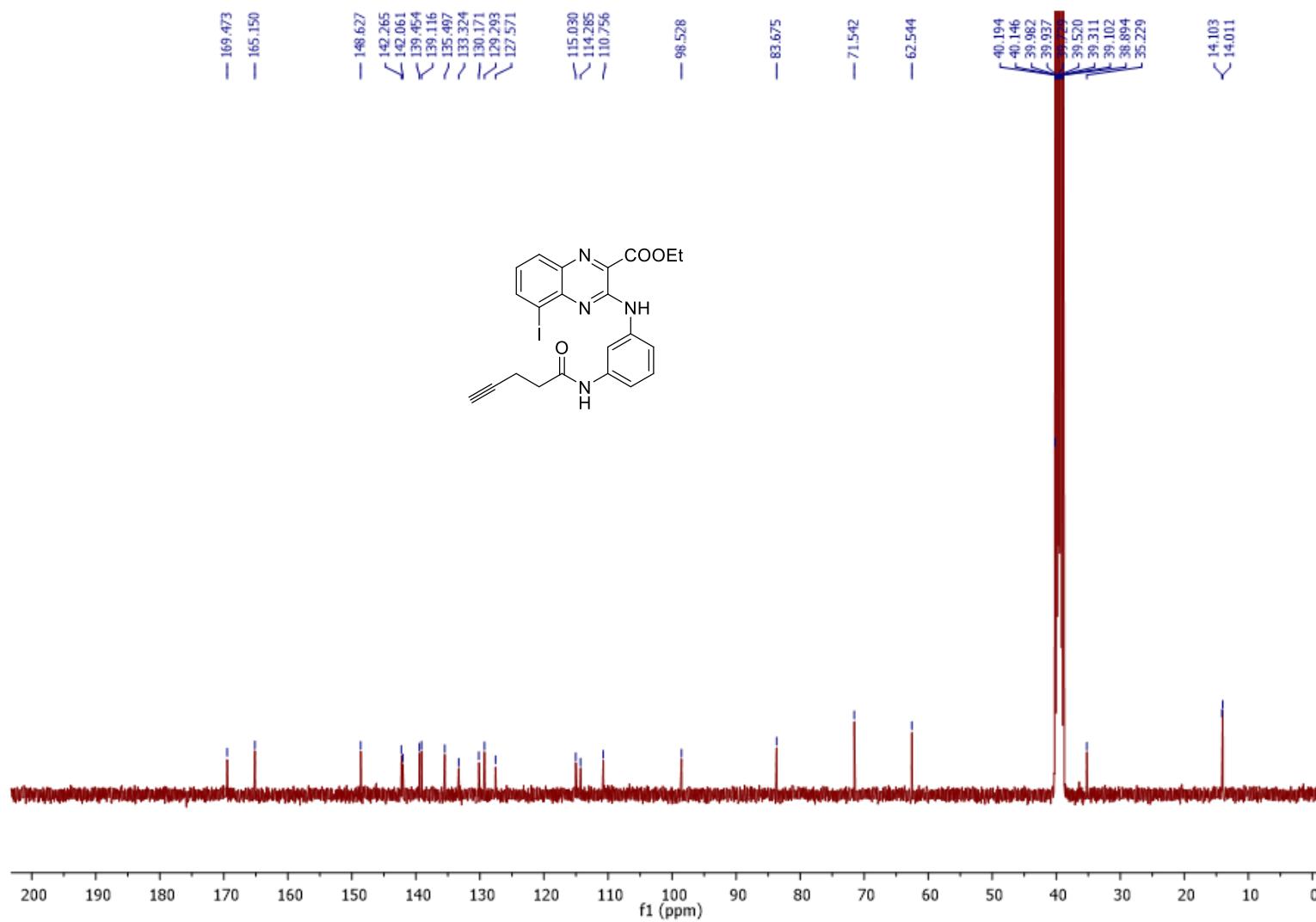
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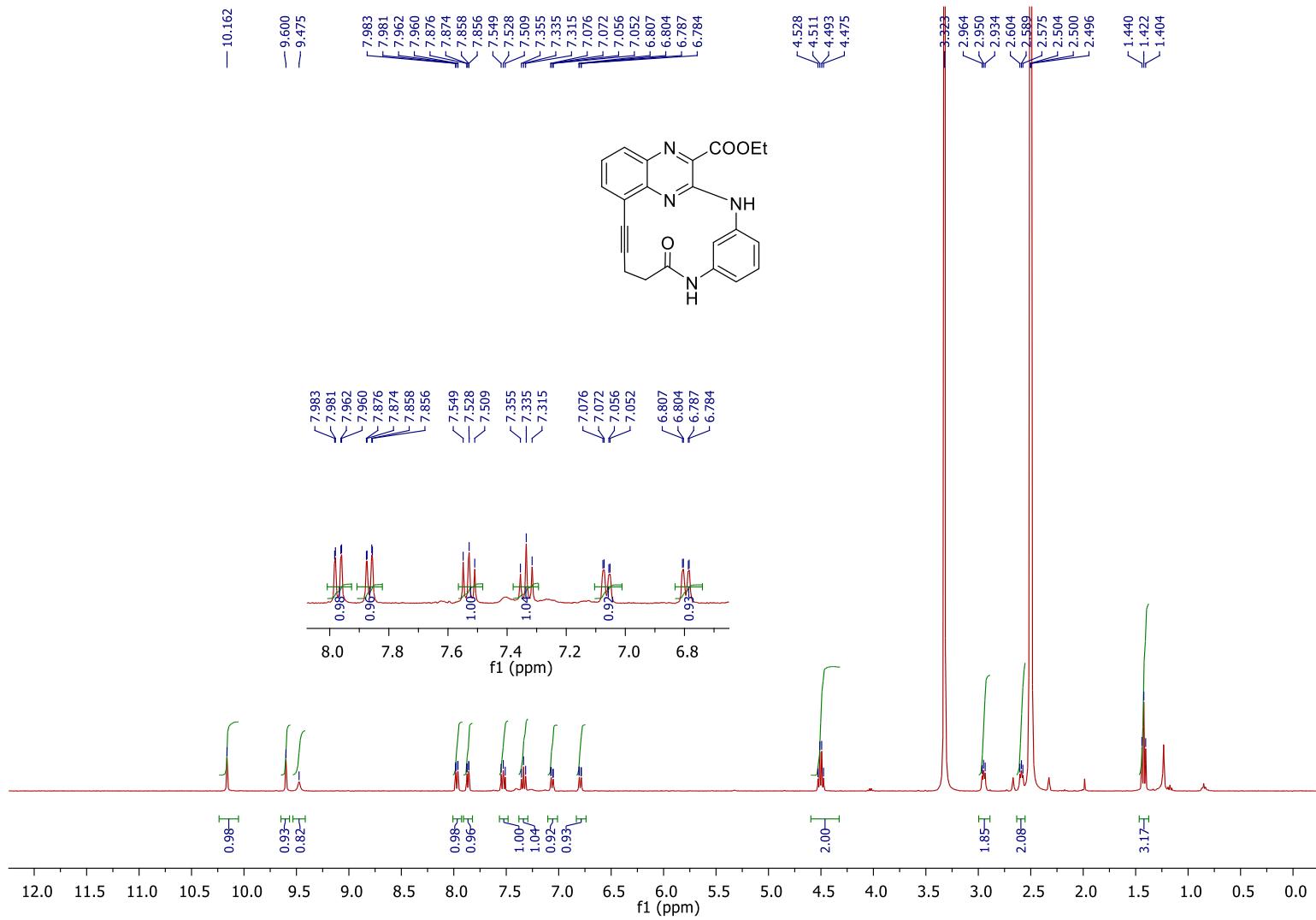
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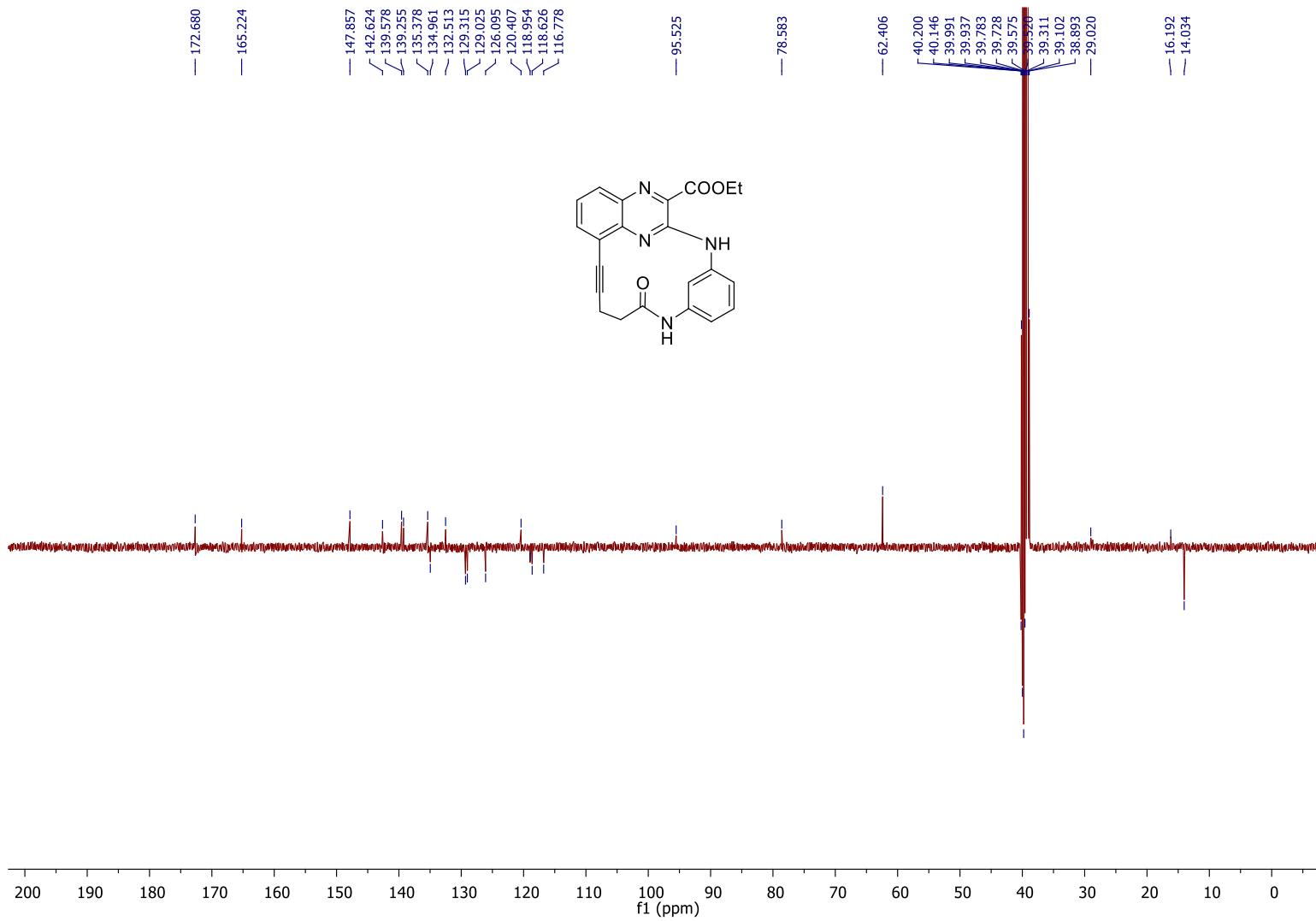
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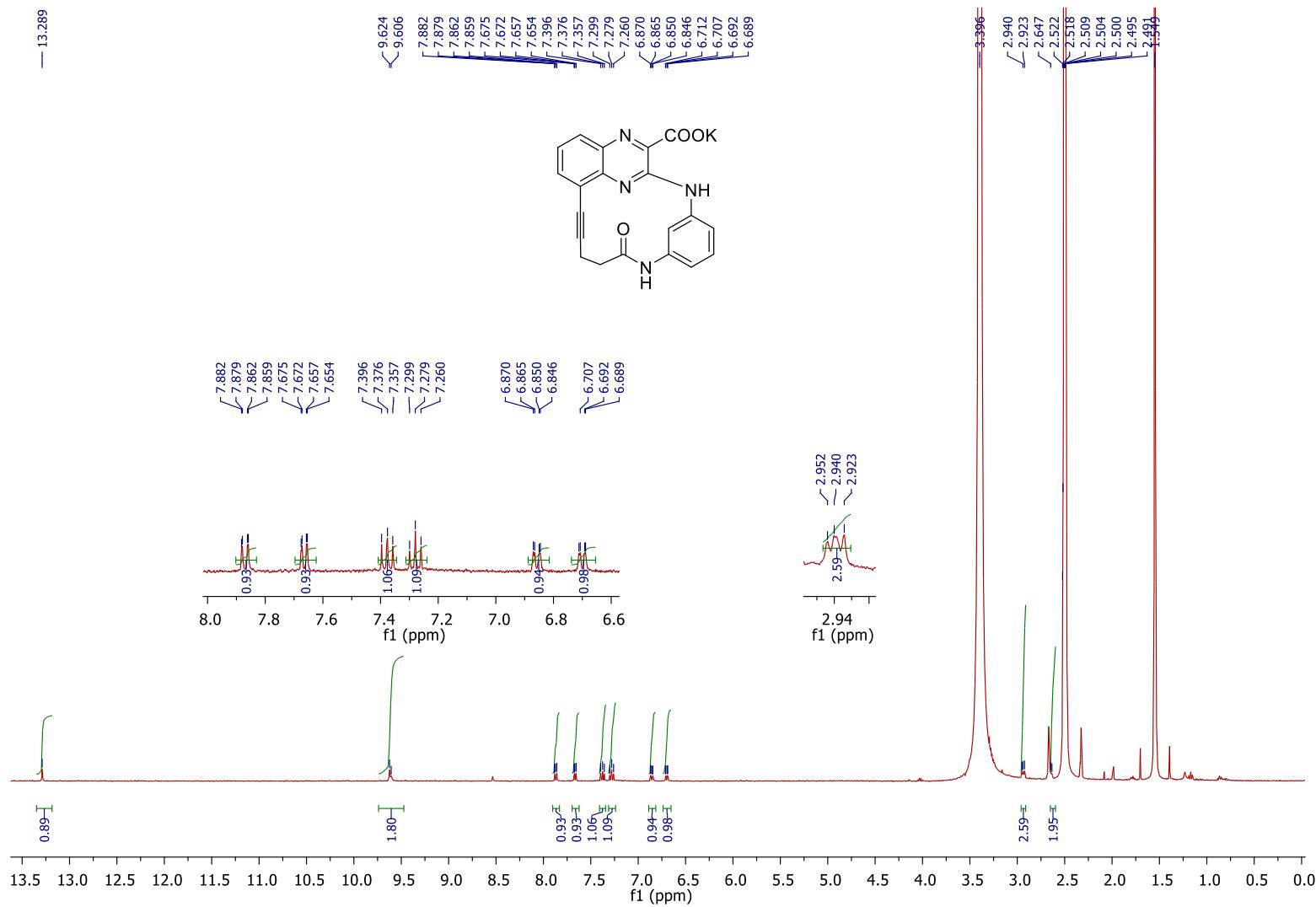
¹H NMR of compound 7 in DMSO-*d*₆



¹³C NMR (JMOD) of compound **7** in DMSO-*d*₆

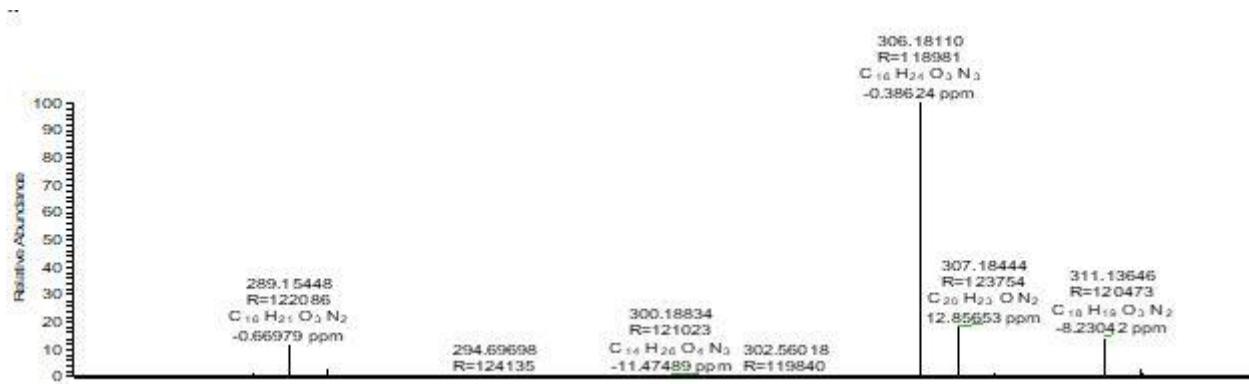


¹H NMR of compound **8** in DMSO-*d*₆

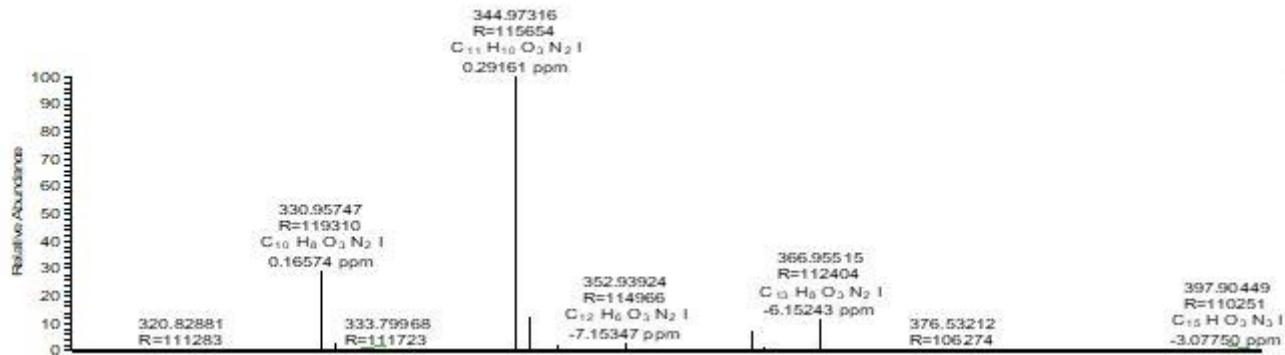


2. HRMS spectra

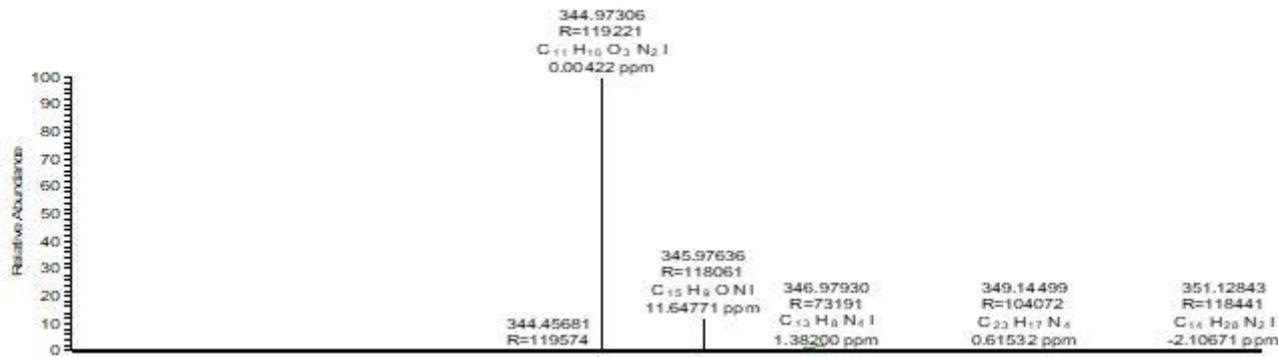
HRMS spectrum of compound 2



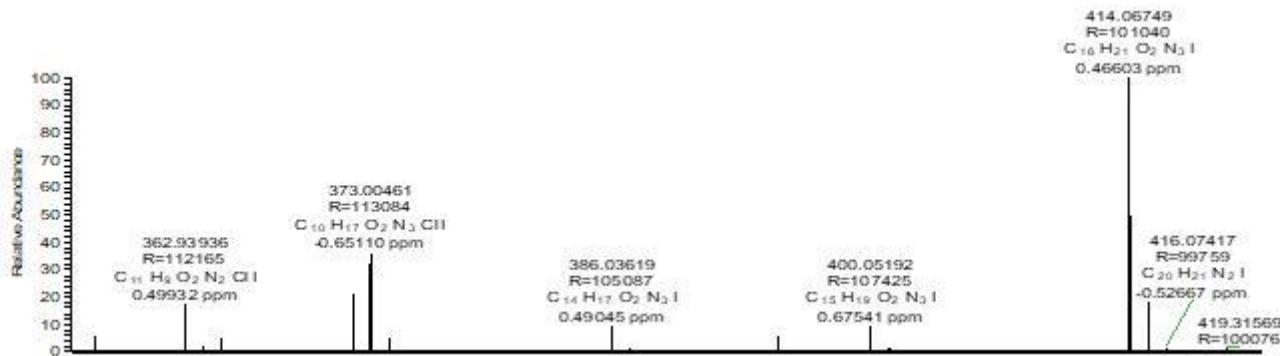
HRMS spectrum of compound **4a**



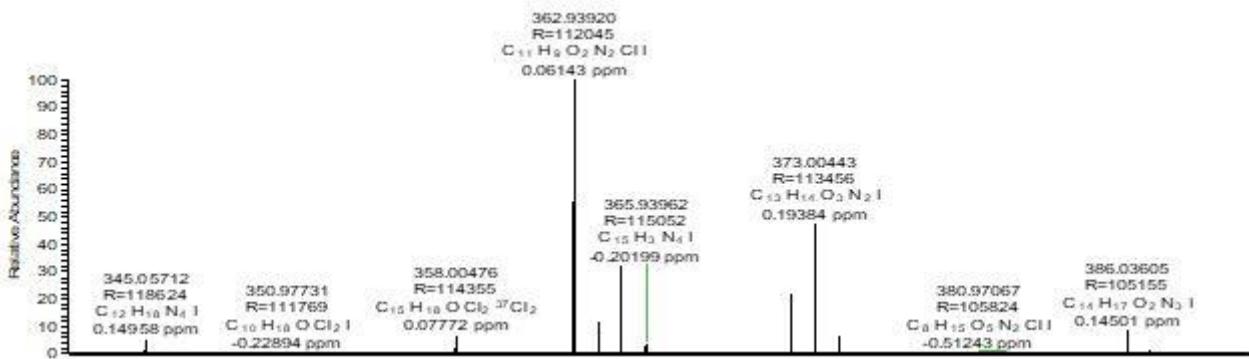
HRMS spectrum of compound **4b**



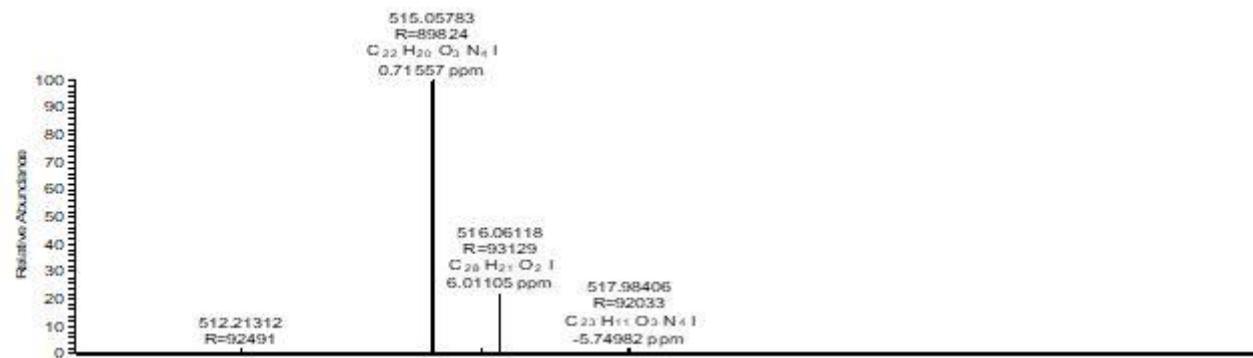
HRMS spectrum of compound **5a**



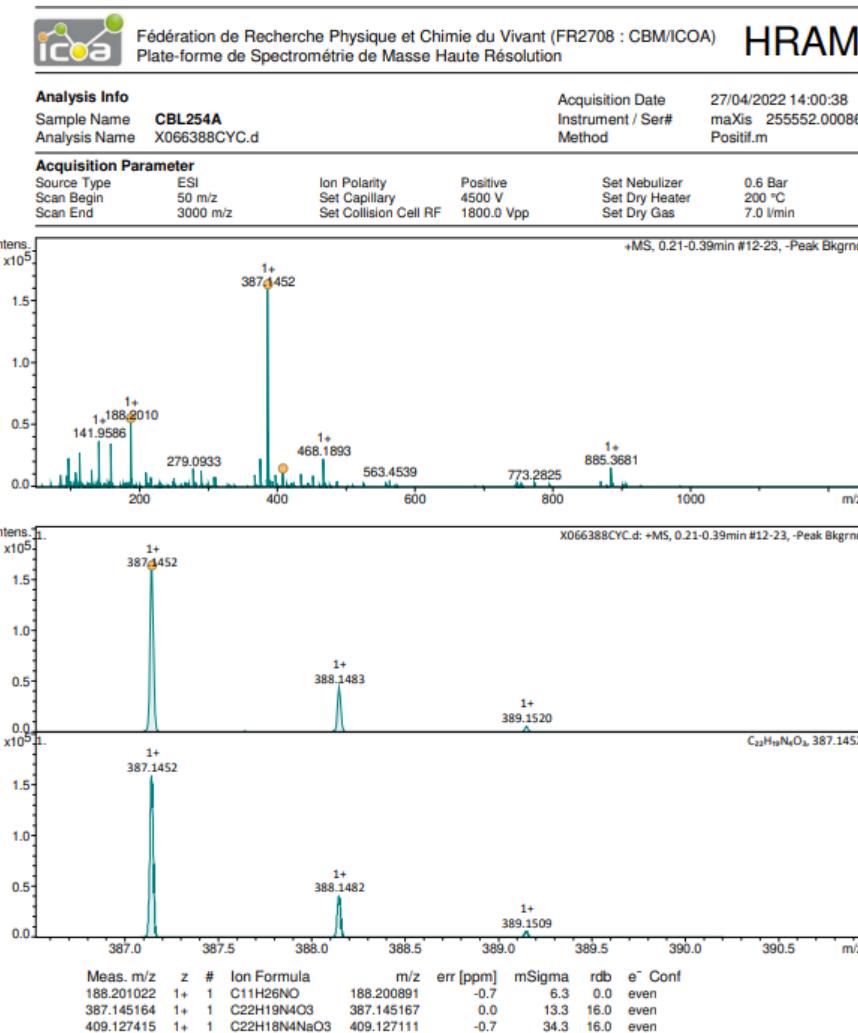
HRMS spectrum of compound **5b**



HRMS spectrum of compound **6**



HRMS spectrum of compound 7



HRMS spectrum of compound **8**

