Supplementary data

Synthesis of substituted naphtho[1,2-*b*]benzofuran-7(8*H*)-ones *via* photoinduced rearrangement of 4*H*-chromen-4-ones derivatives

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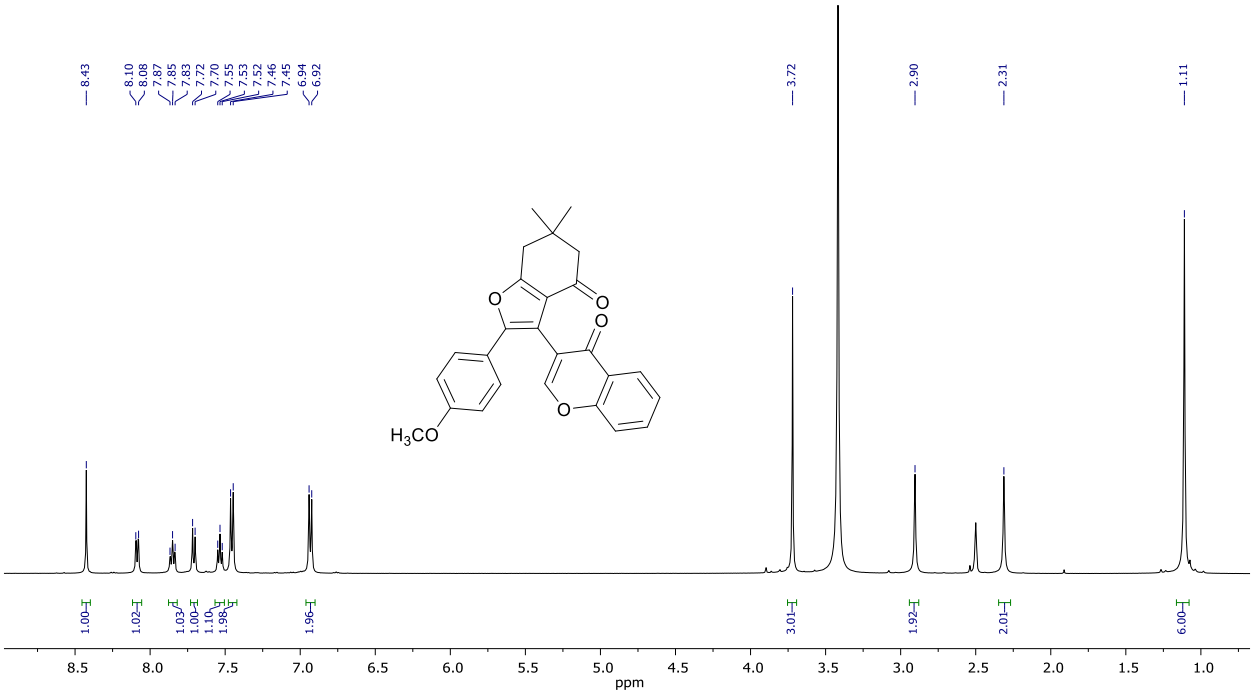
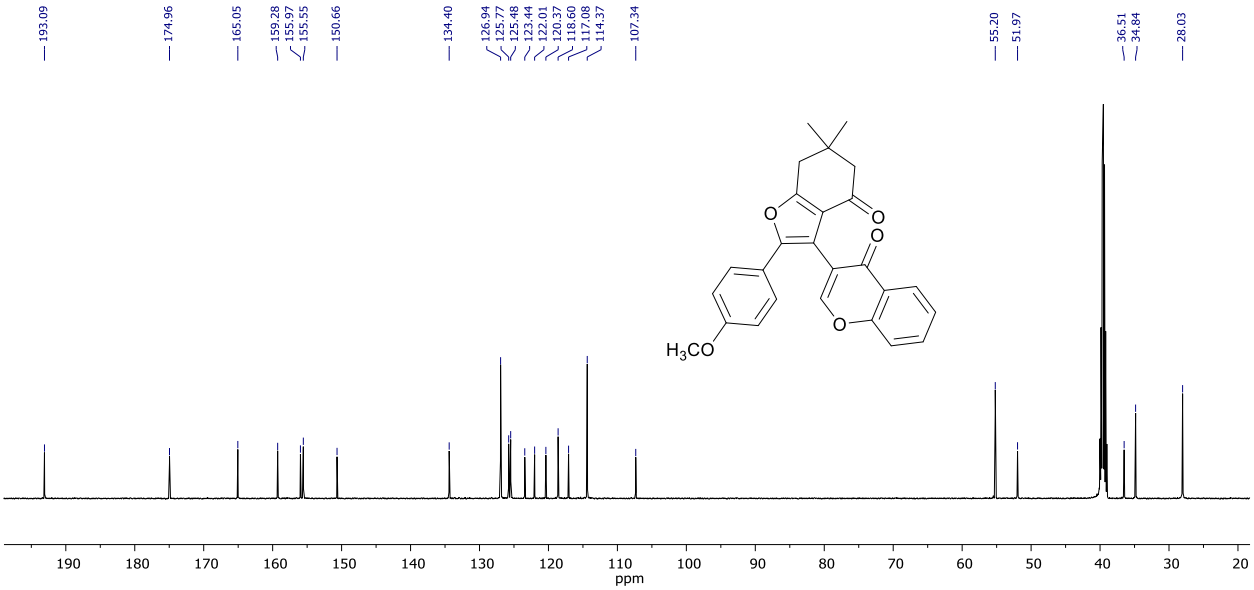
1. **NMR ^{1}H and ^{13}C spectra for compounds 1.**

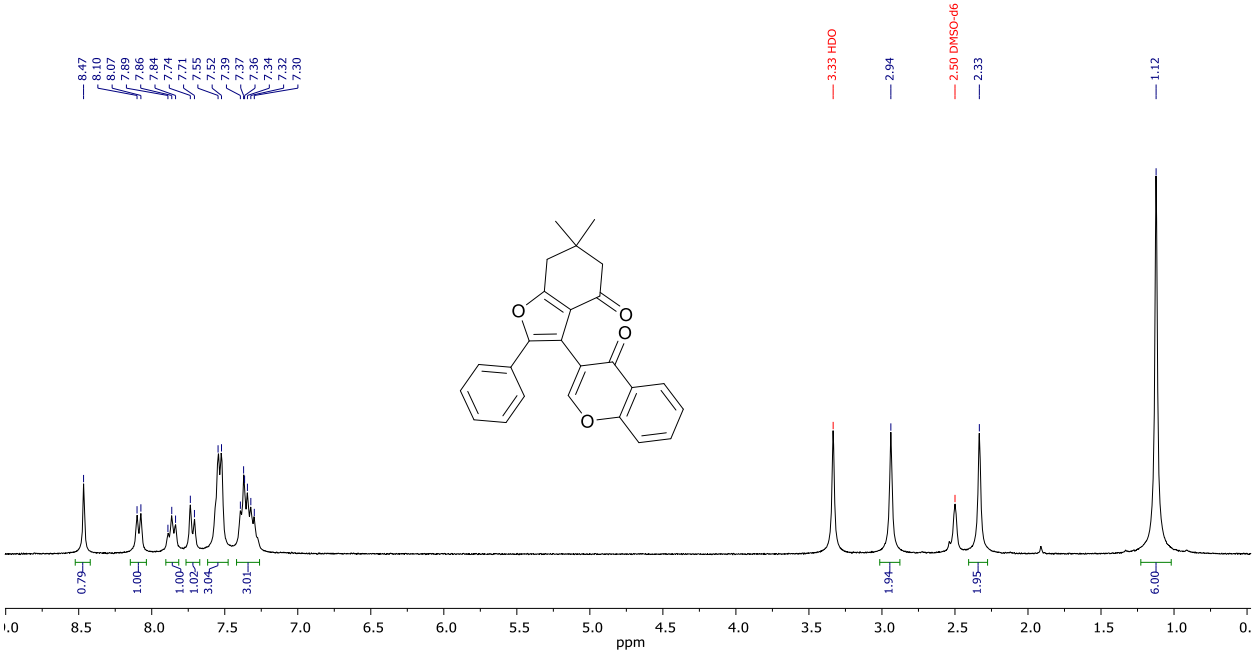
^{1}H NMR spectrum (500 MHz) of **1a** in DMSO-d_6



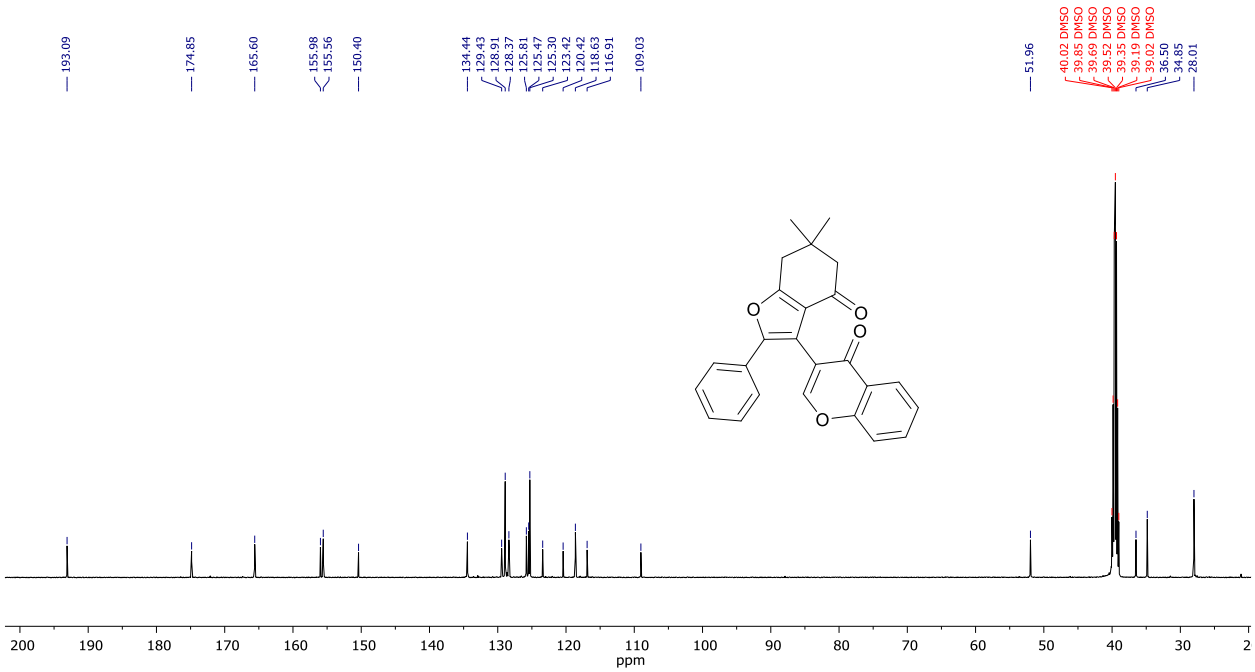
^{13}C NMR spectrum (126 MHz) of **1a** in DMSO-d_6



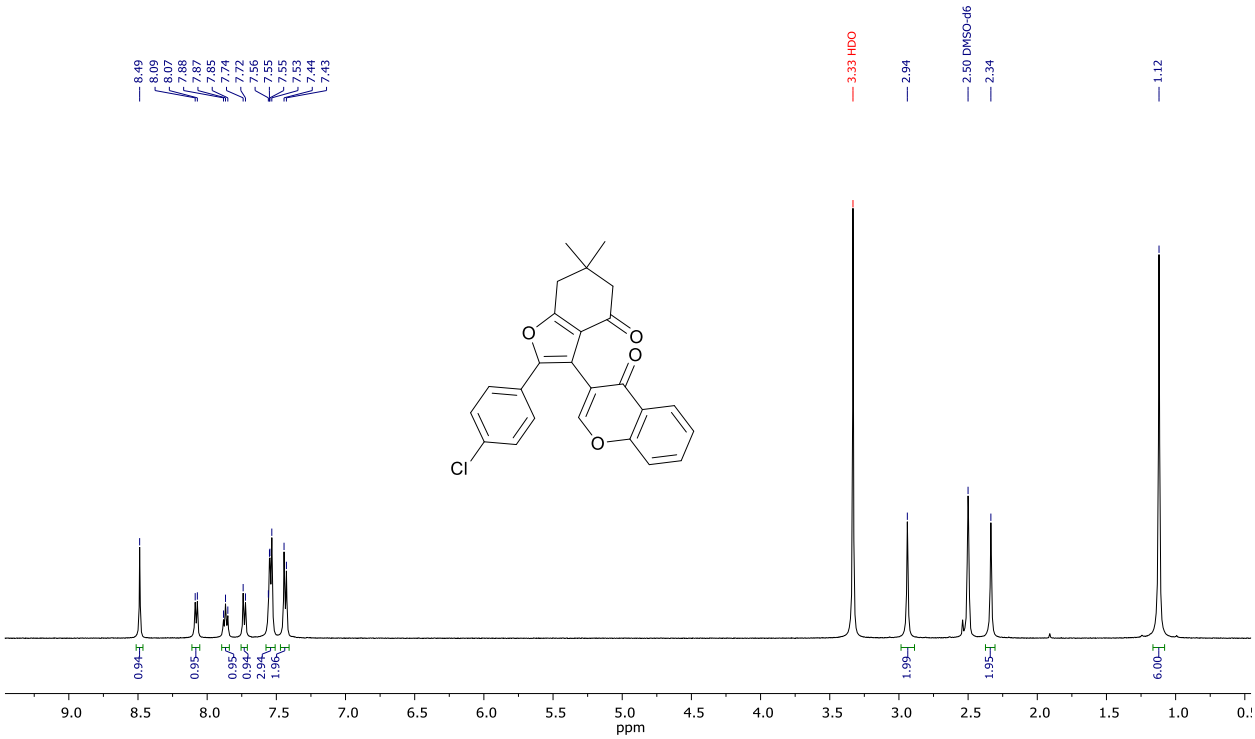
^{1}H NMR spectrum (300 MHz) of **1b** in DMSO-d_6



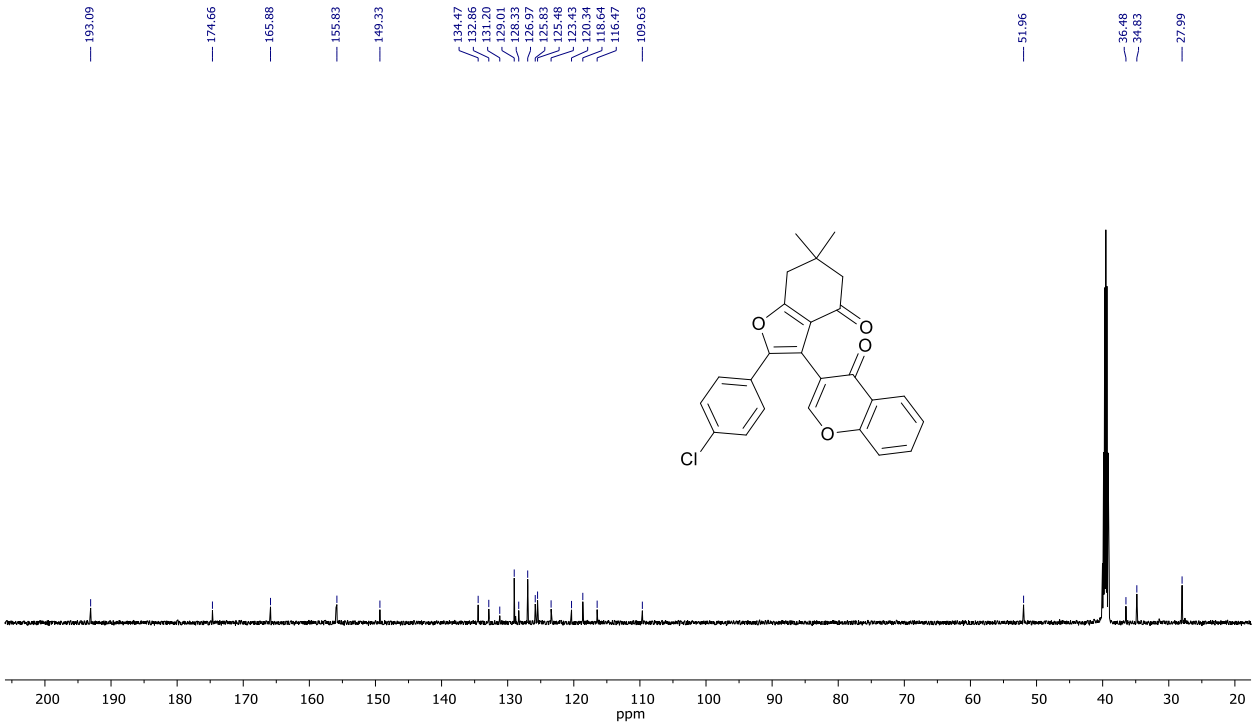
^{13}C NMR spectrum (126 MHz) of **1b** in DMSO-d_6



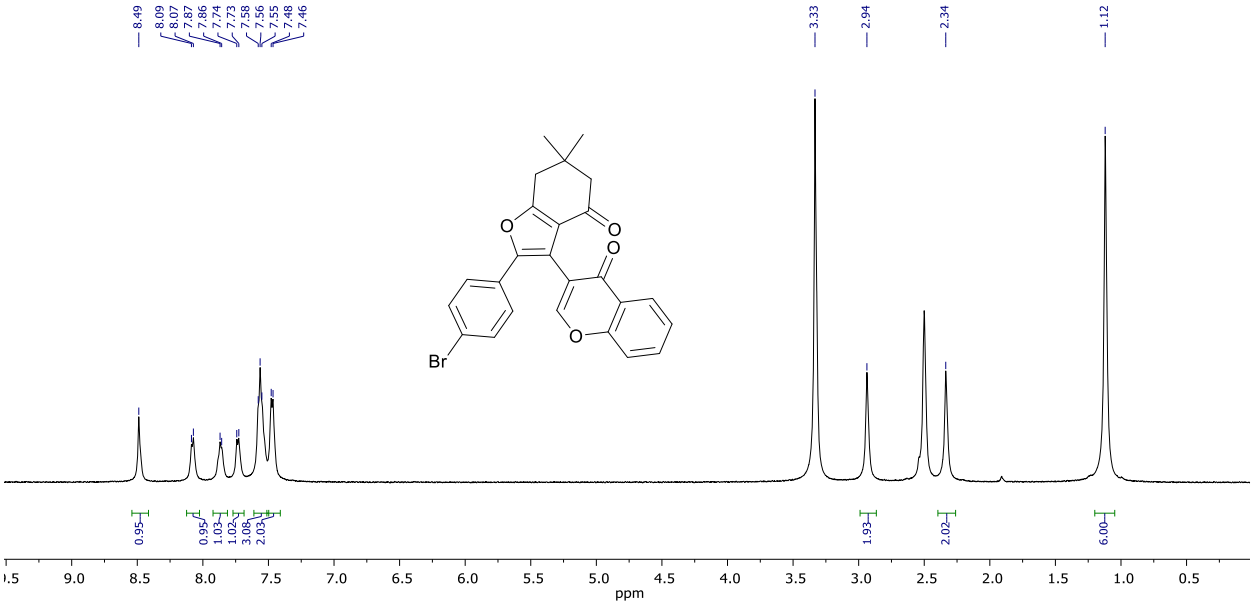
^{1}H NMR spectrum (500 MHz) of **1c** in DMSO-d_6



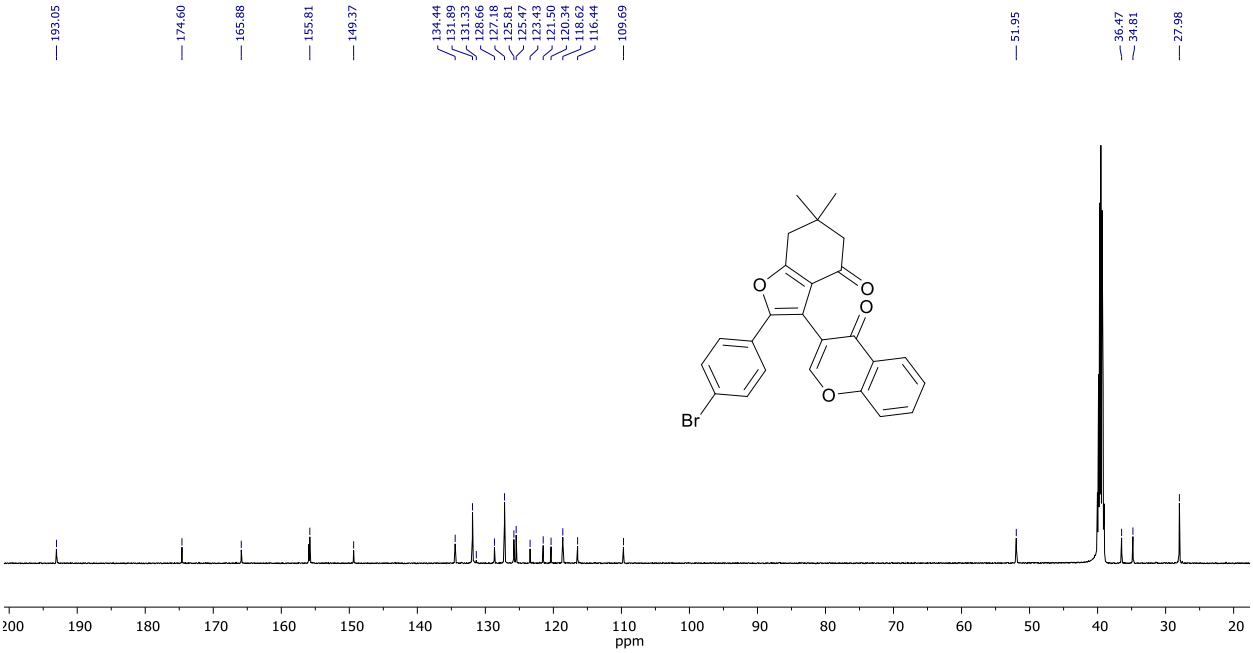
^{13}C NMR spectrum (126 MHz) of **1c** in DMSO-d_6



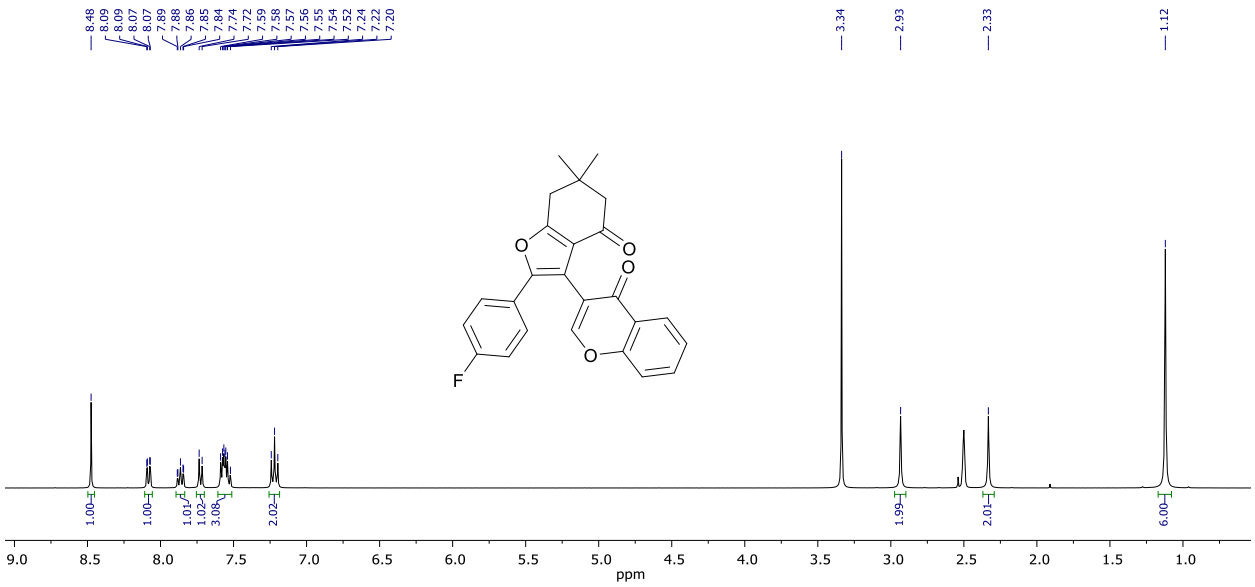
^{1}H NMR spectrum (500 MHz) of **1d** in DMSO-d_6



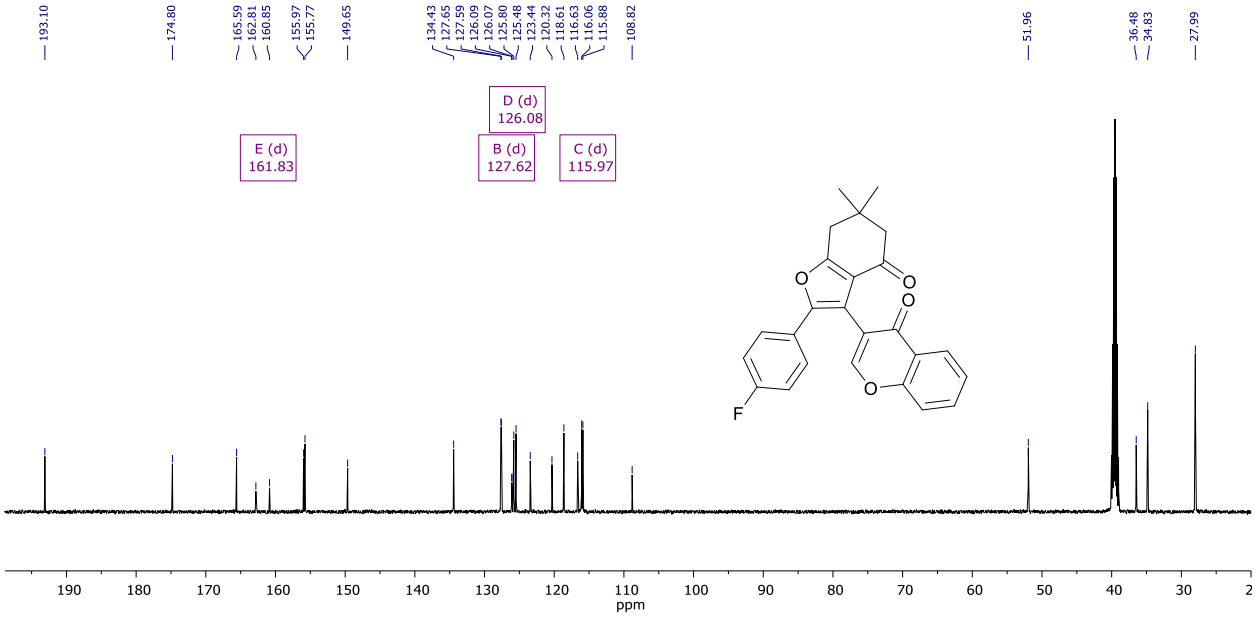
^{13}C NMR spectrum (126 MHz) of **1d** in DMSO-d_6



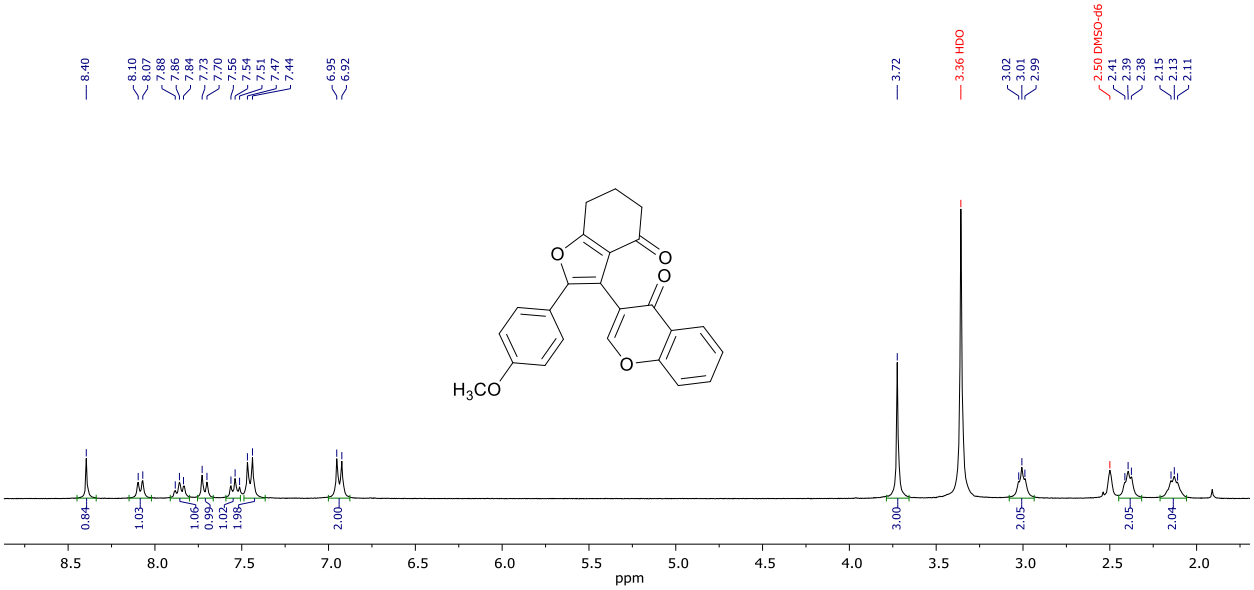
^{1}H NMR spectrum (400 MHz) of **1e** in DMSO-d_6



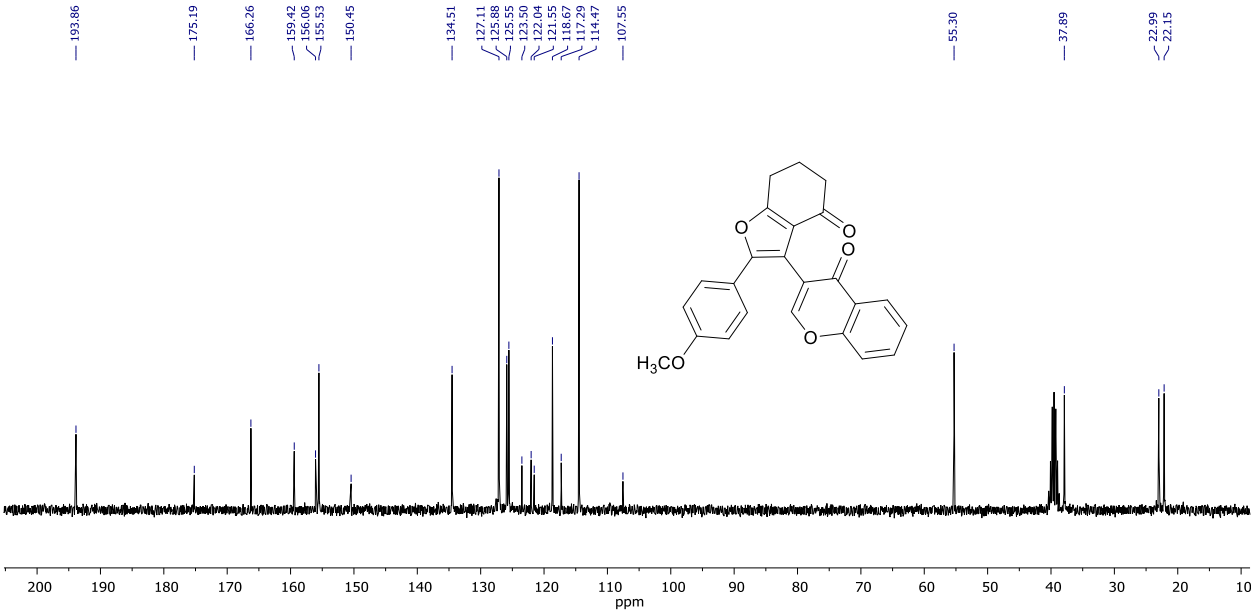
^{13}C NMR spectrum (126 MHz) of **1e** in DMSO-d_6



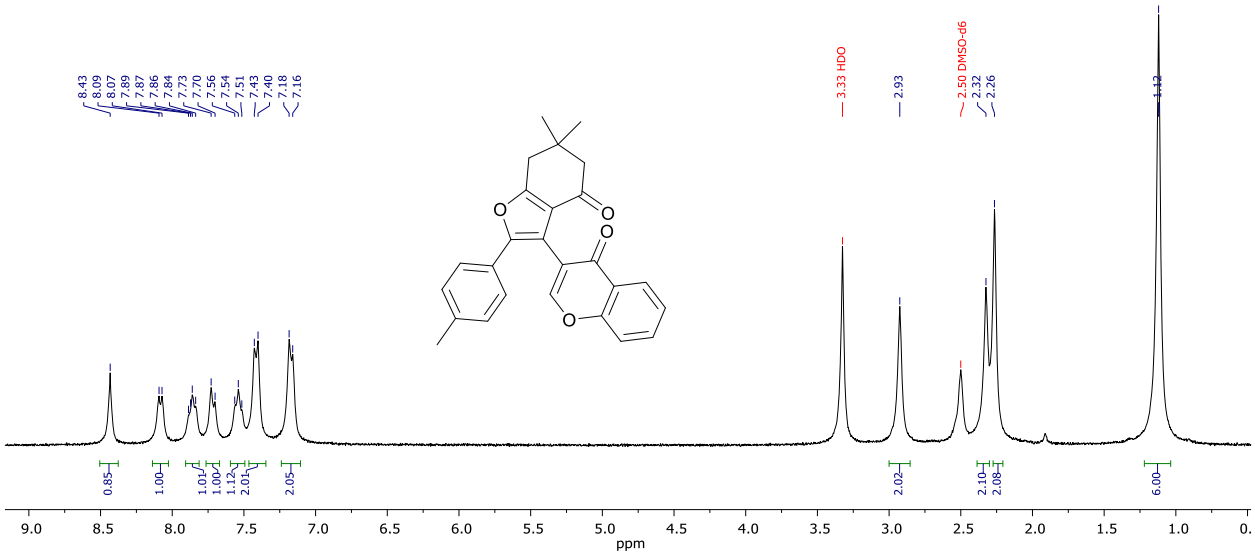
^{1}H NMR spectrum (300 MHz) of **1f** in DMSO-d_6



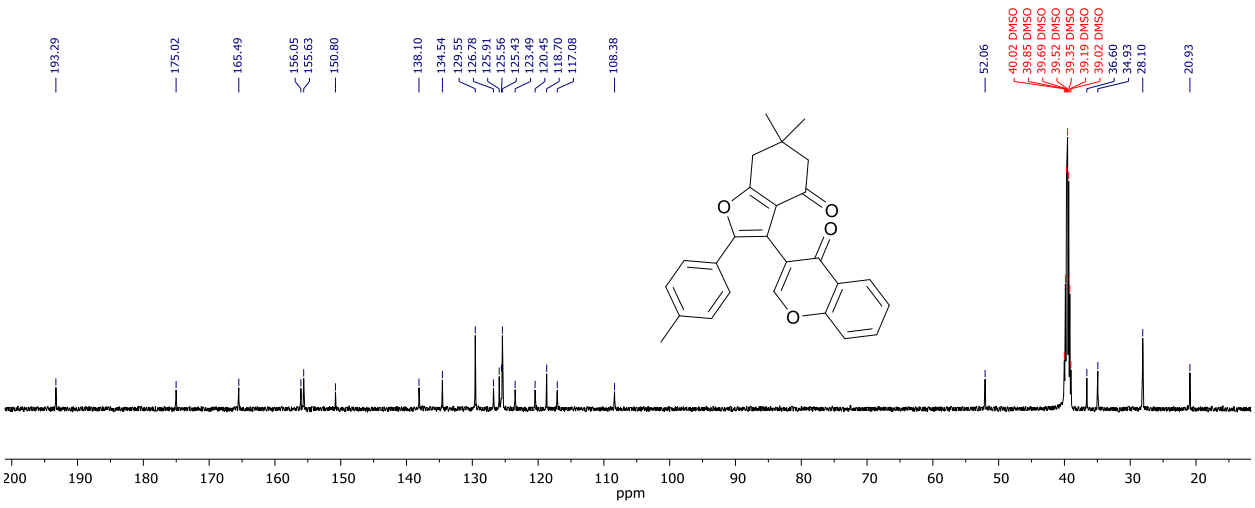
^{13}C NMR spectrum (75 MHz) of **1f** in DMSO-d_6



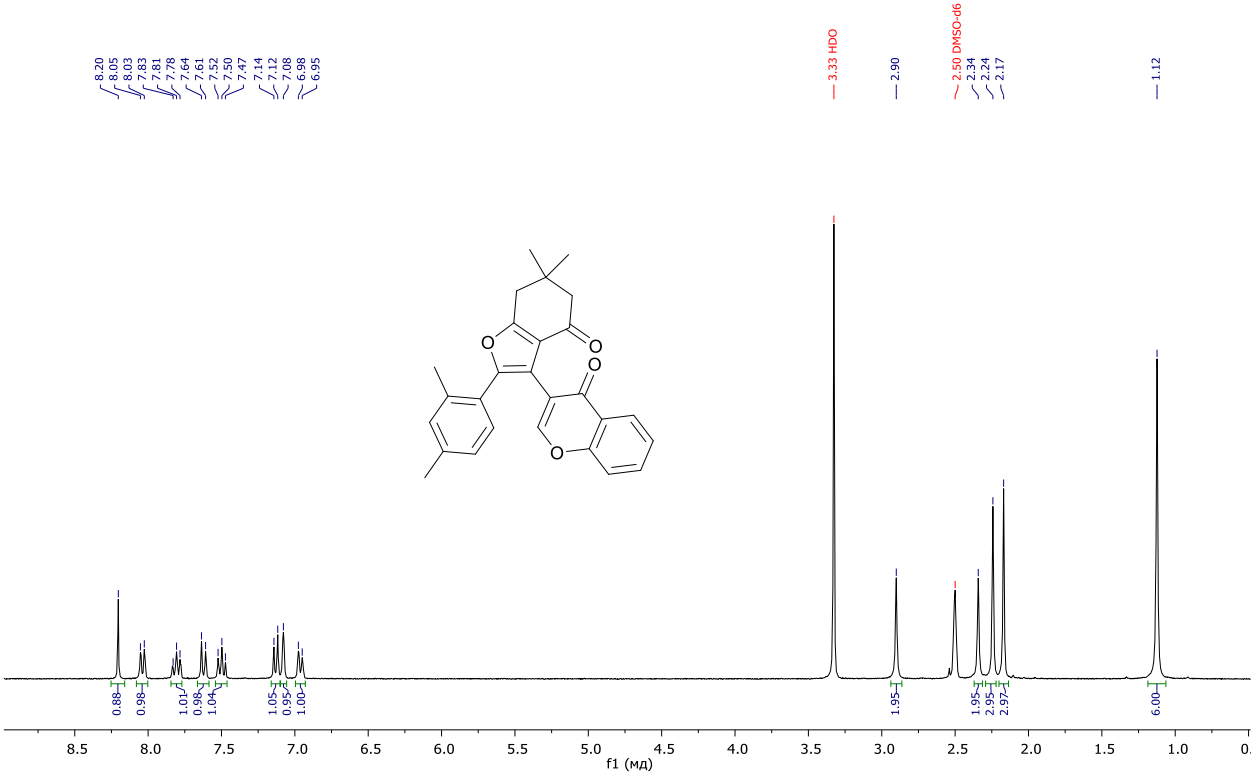
^{1}H NMR spectrum (300 MHz) of **1g** in DMSO-d_6



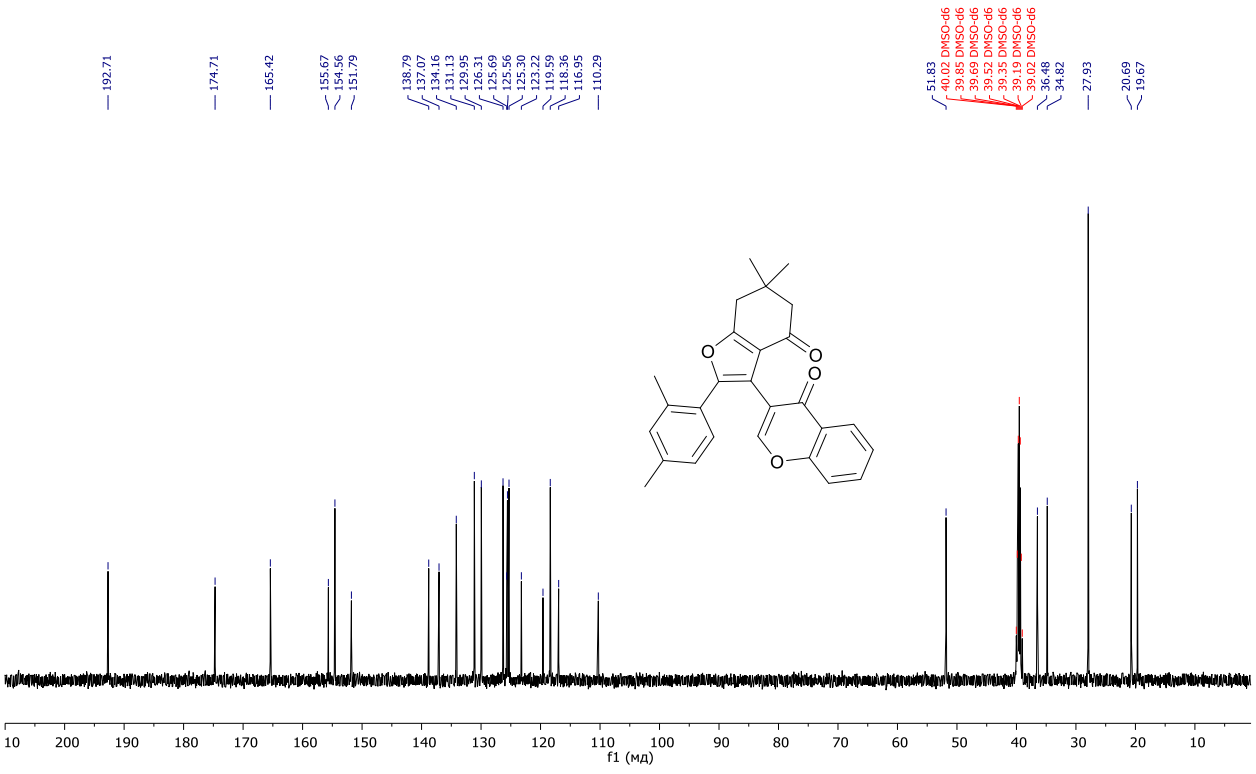
^{13}C NMR spectrum (126 MHz) of **1g** in DMSO-d_6



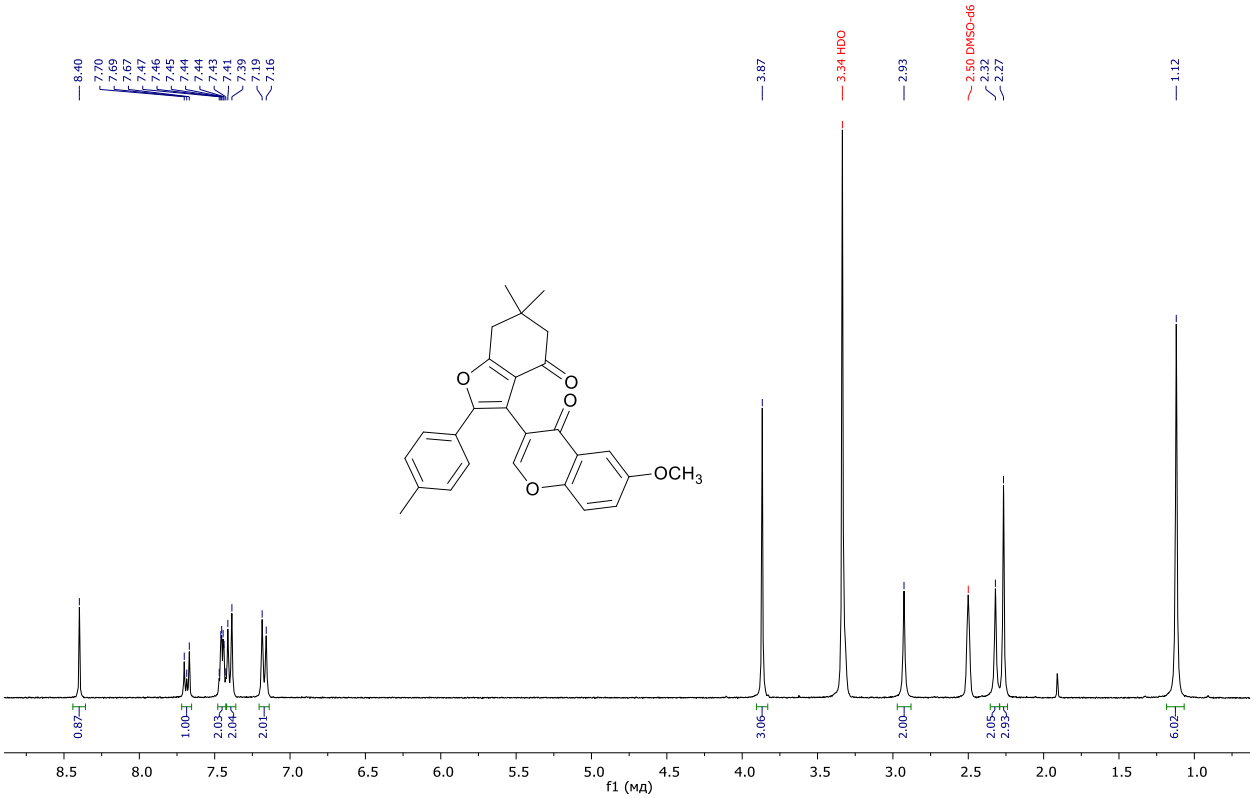
^{1}H NMR spectrum (300 MHz) of **1h** in DMSO-d_6



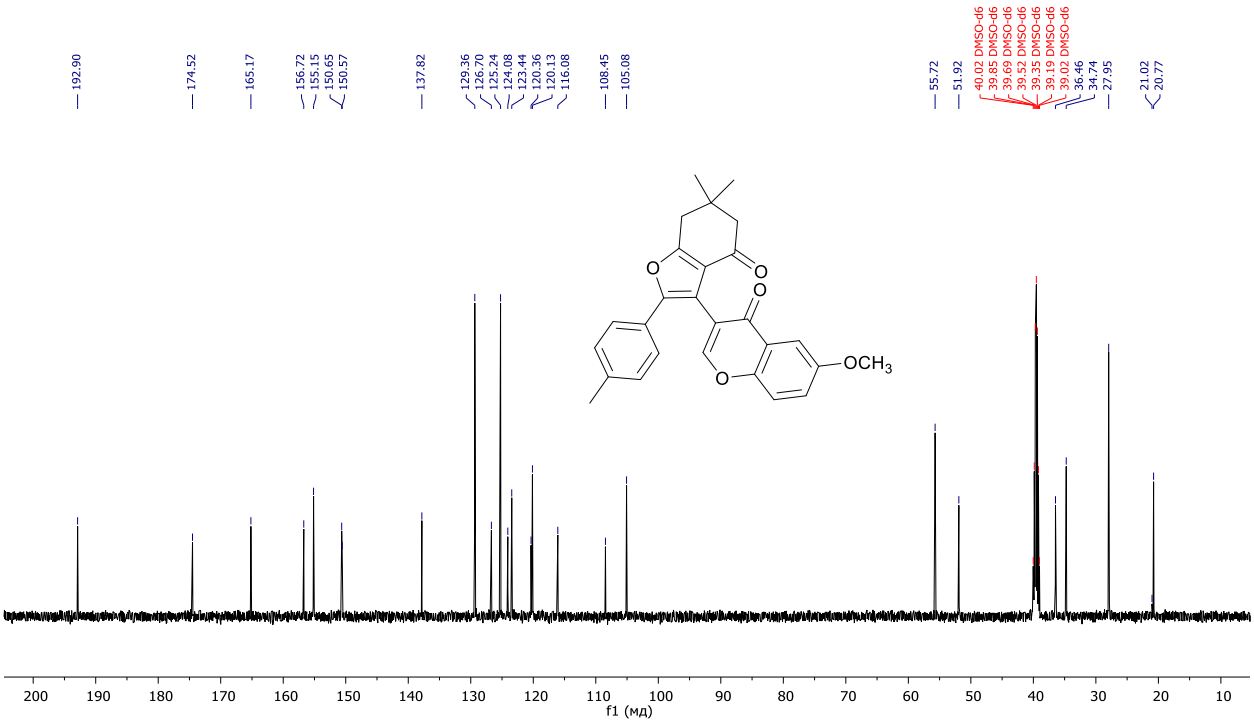
^{13}C NMR spectrum (126 MHz) of **1h** in DMSO-d_6



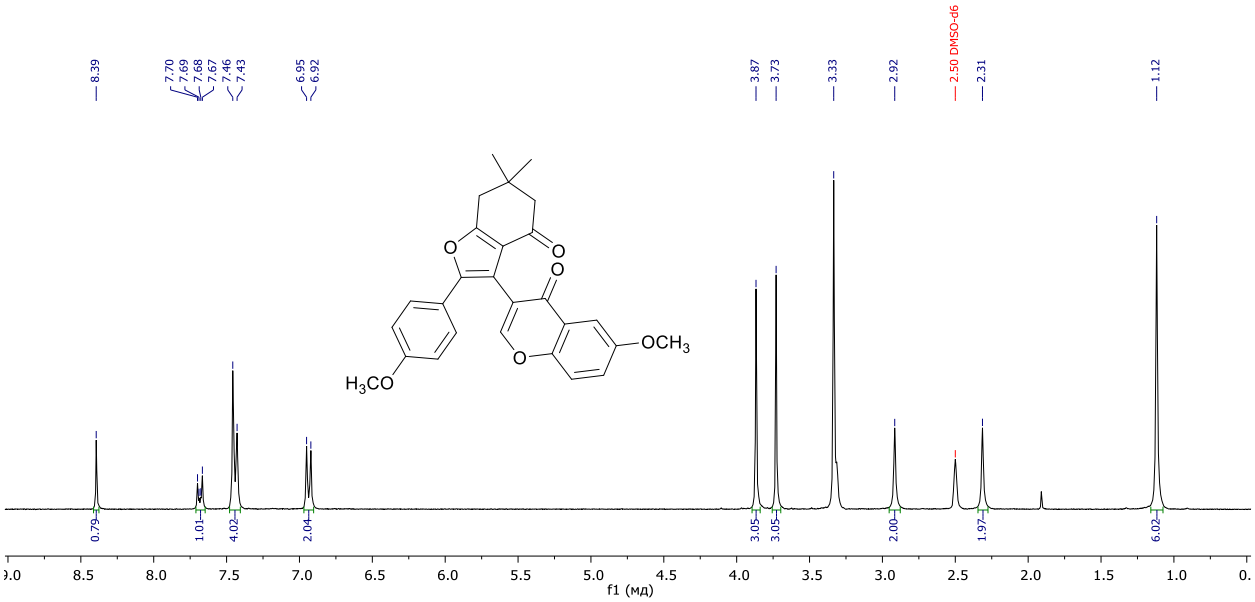
^{1}H NMR spectrum (300 MHz) of **1i** in DMSO-d_6



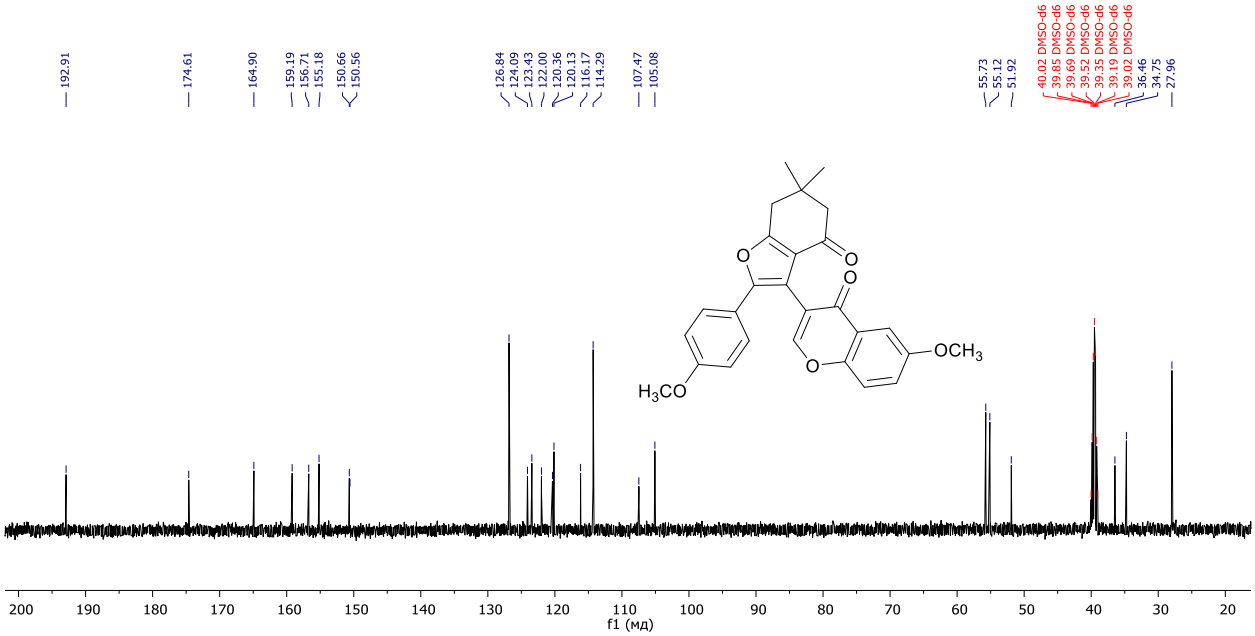
^{13}C NMR spectrum (126 MHz) of **1i** in DMSO-d_6



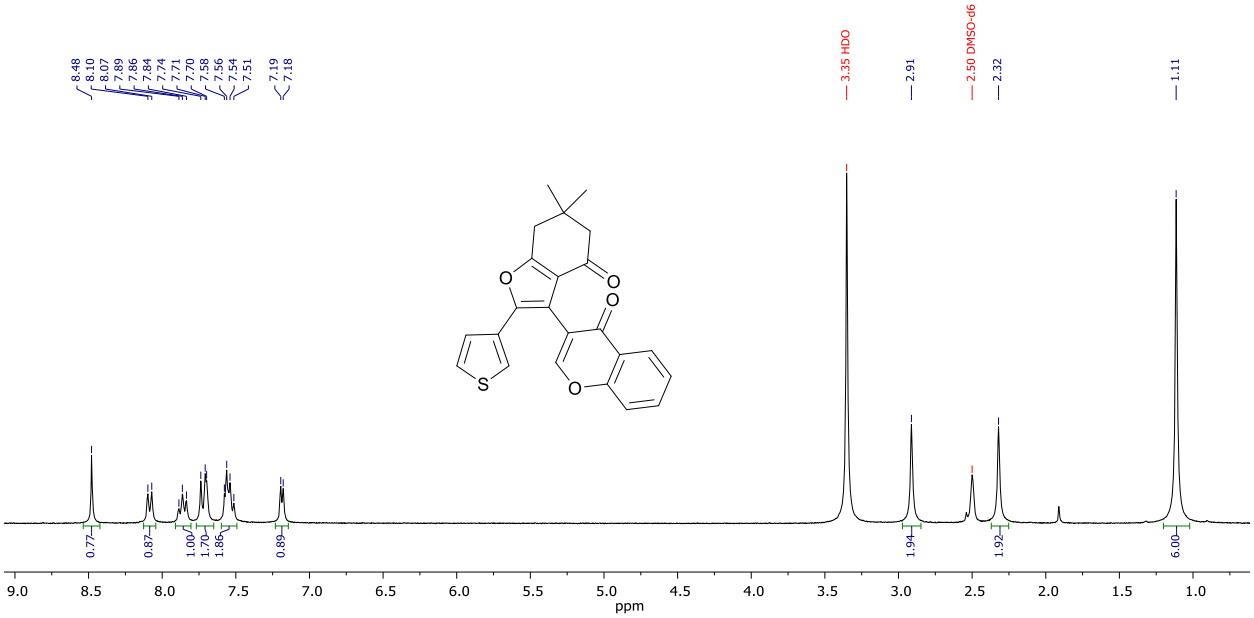
^{1}H NMR spectrum (300 MHz) of **1j** in DMSO-d_6



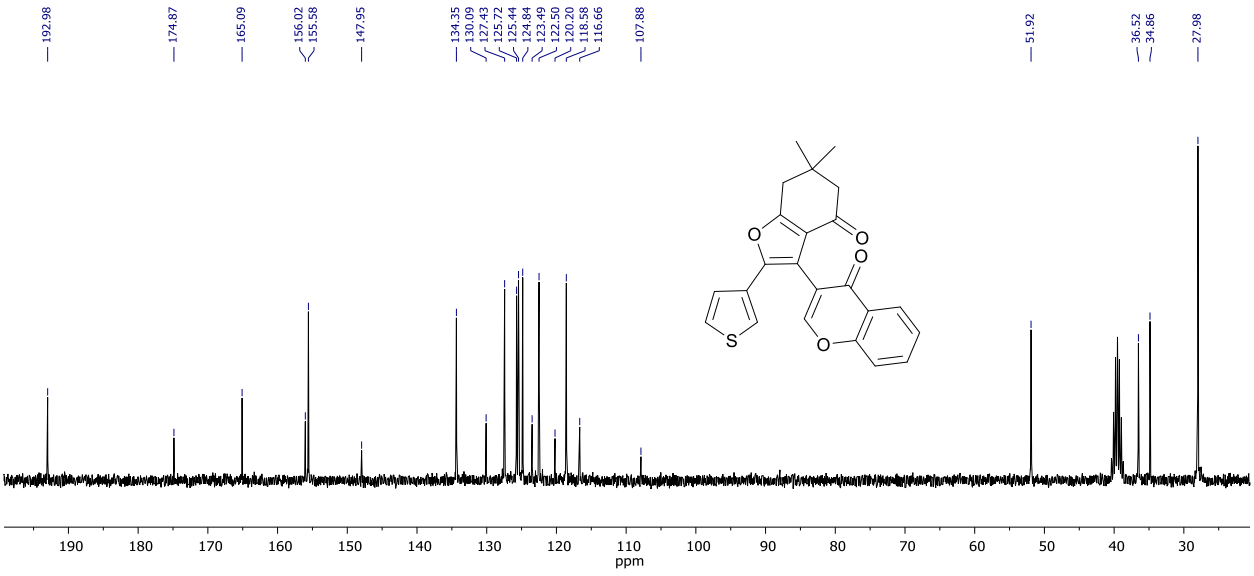
^{13}C NMR spectrum (126 MHz) of **1j** in DMSO-d_6



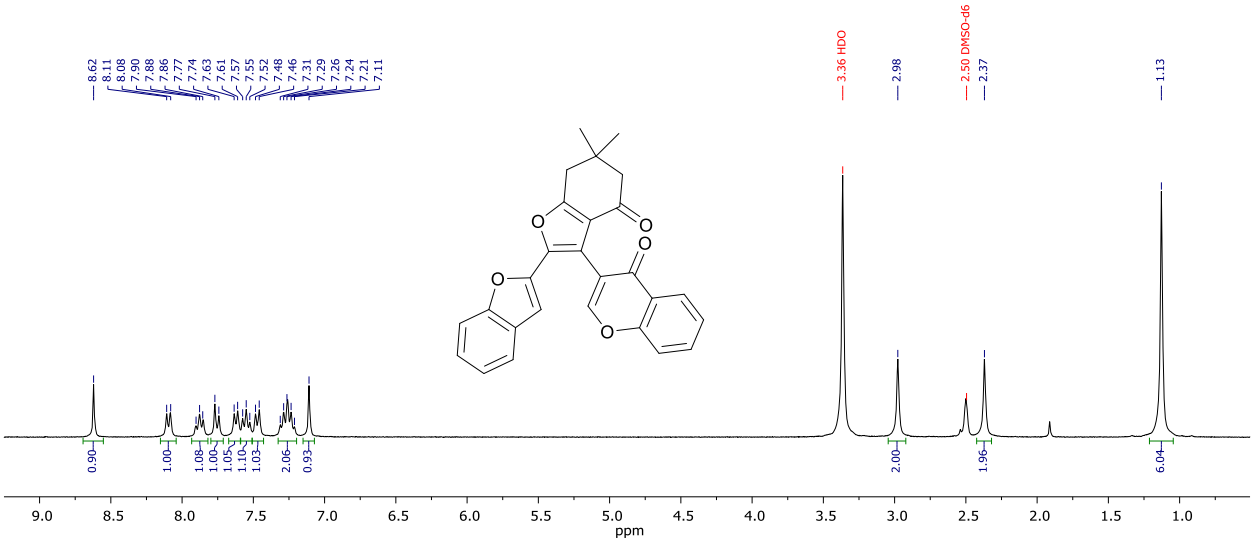
^{1}H NMR spectrum (300 MHz) of **1k** in DMSO-d_6



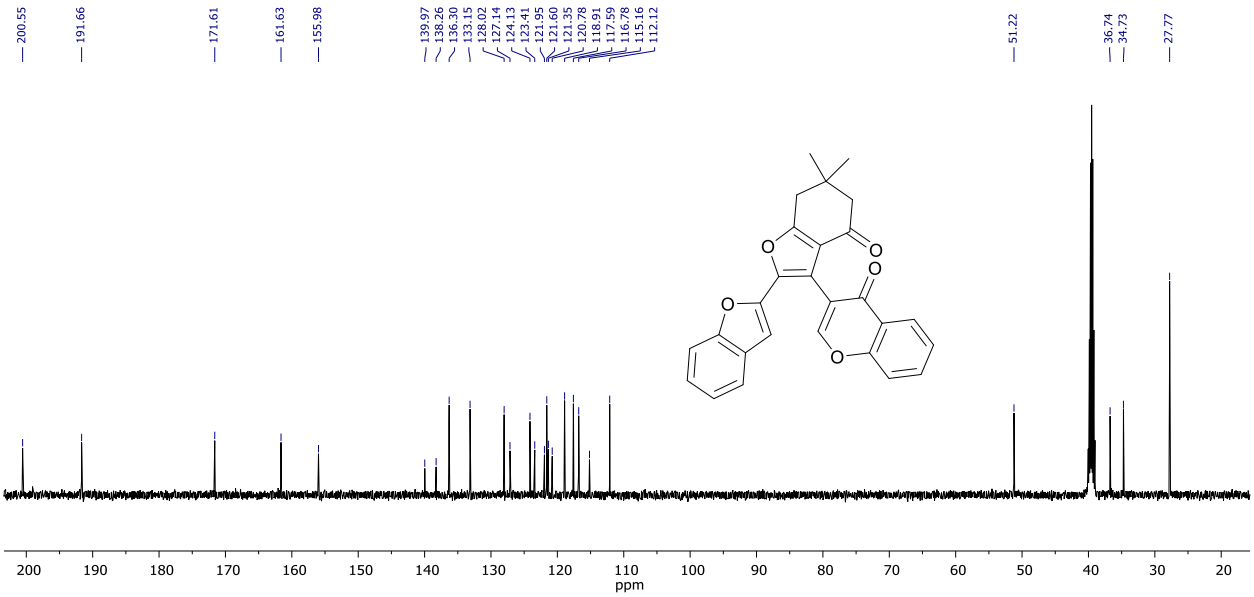
^{13}C NMR spectrum (75 MHz) of **1k** in DMSO-d_6



^{1}H NMR spectrum (300 MHz) of **1l** in DMSO-d_6

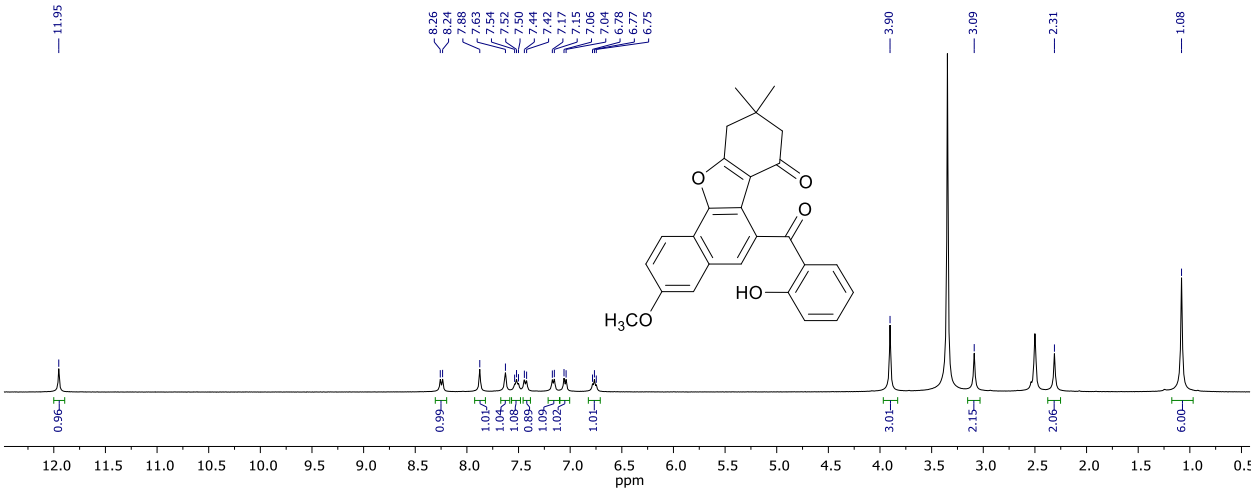


^{13}C NMR spectrum (75 MHz) of **1l** in DMSO-d_6

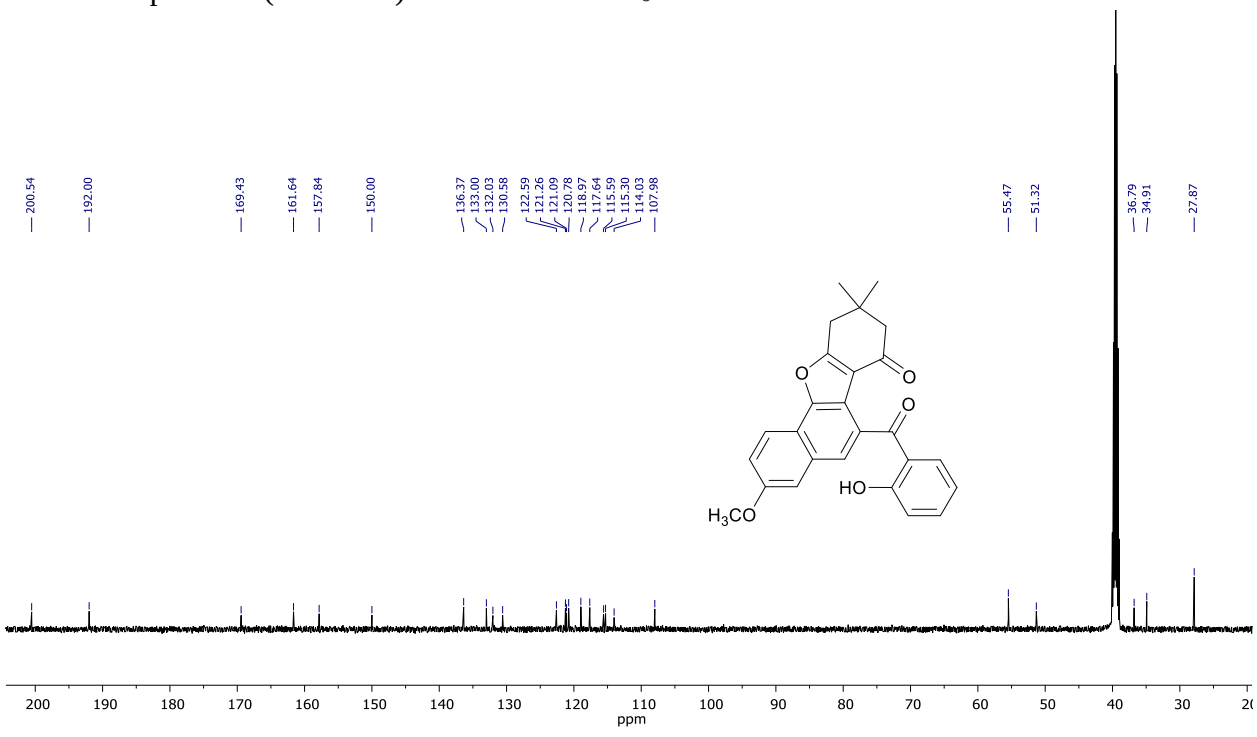


2. NMR ^{1}H and ^{13}C spectra for photoproducts 5.

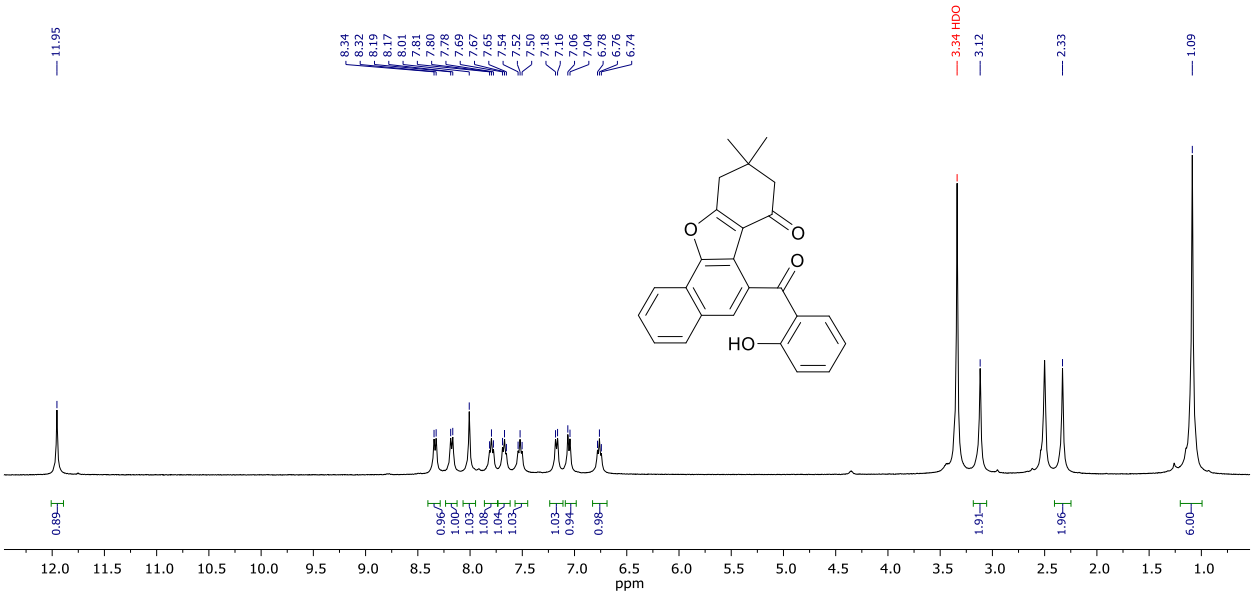
^{1}H NMR spectrum (400 MHz) of **5a** in DMSO-d_6



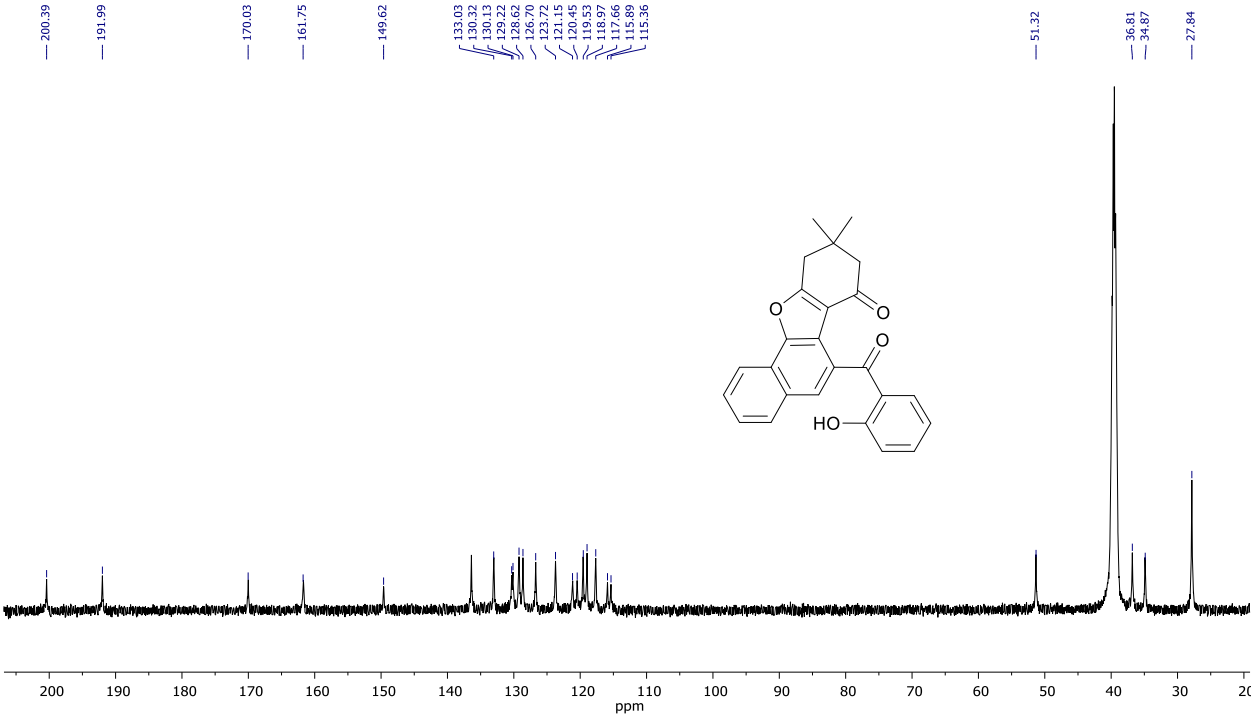
^{13}C NMR spectrum (126 MHz) of **5a** in DMSO-d_6



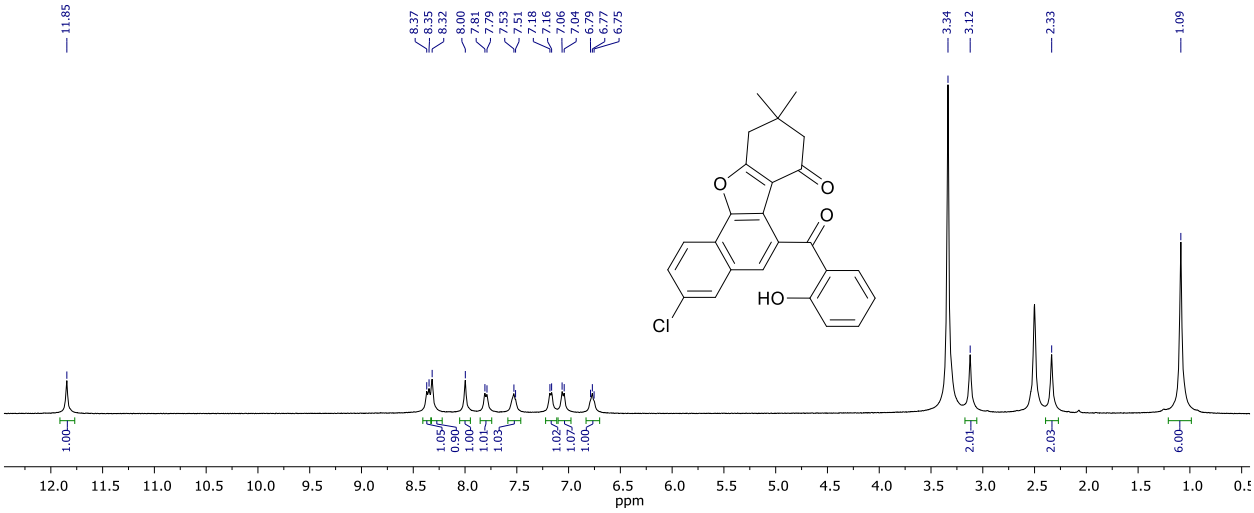
^{1}H NMR spectrum (400 MHz) of **5b** in DMSO-d_6



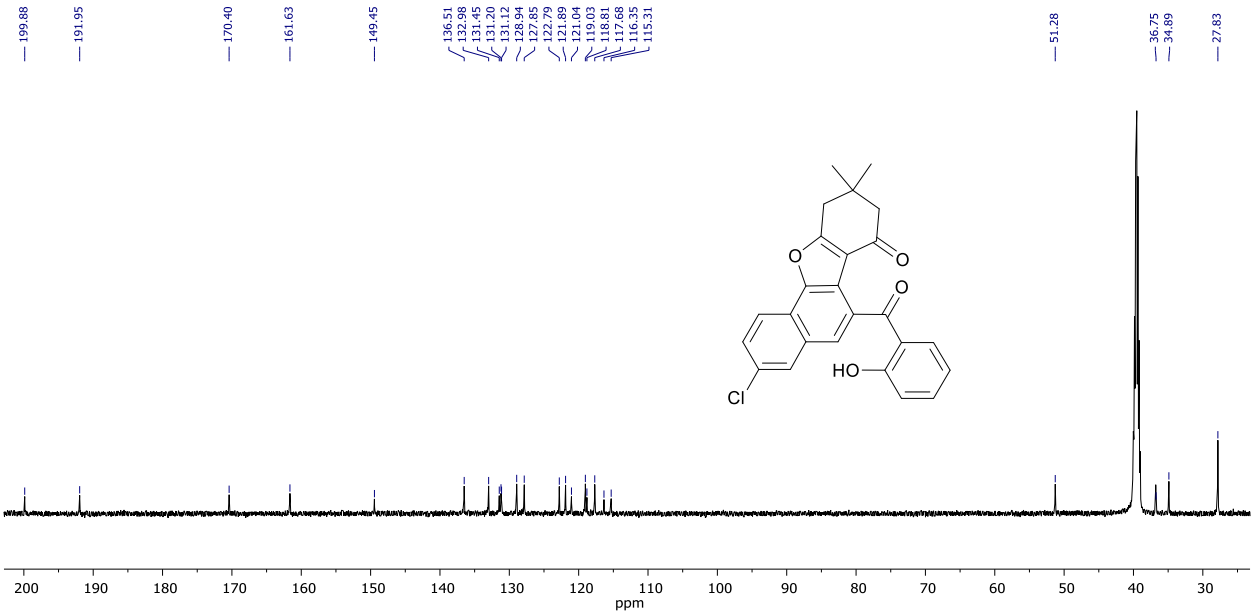
^{13}C NMR spectrum (126 MHz) of **5b** in DMSO-d_6



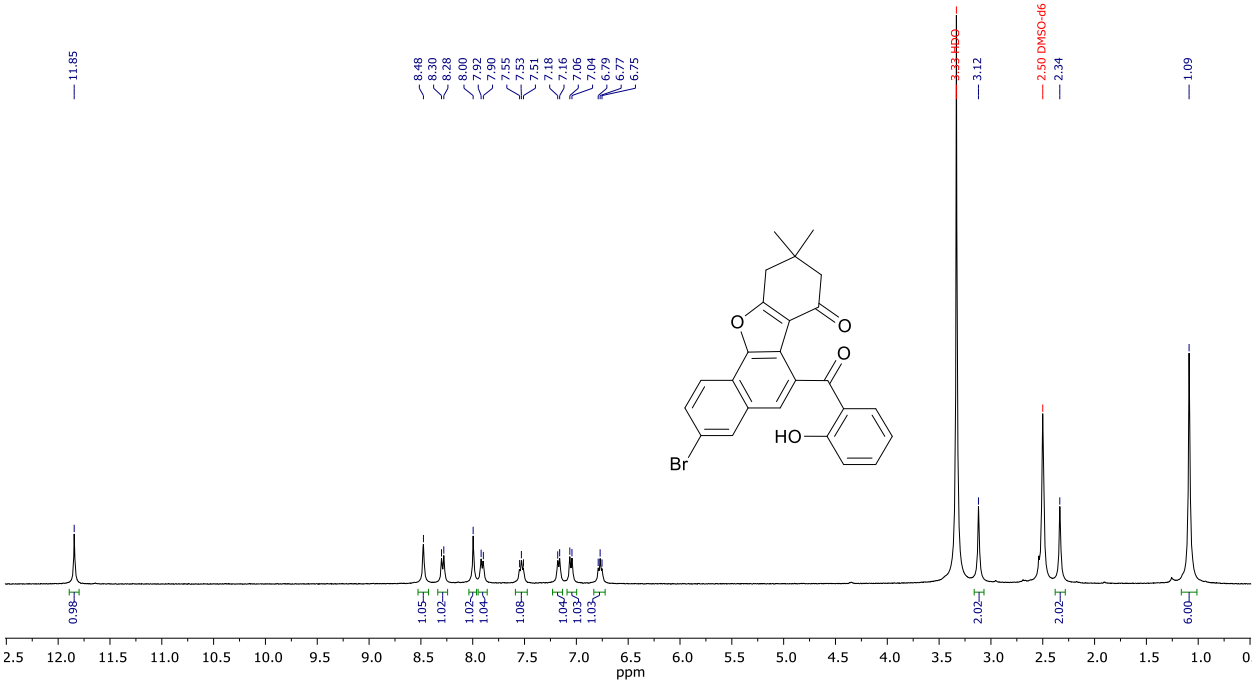
^{1}H NMR spectrum (400 MHz) of **5c** in DMSO-d_6



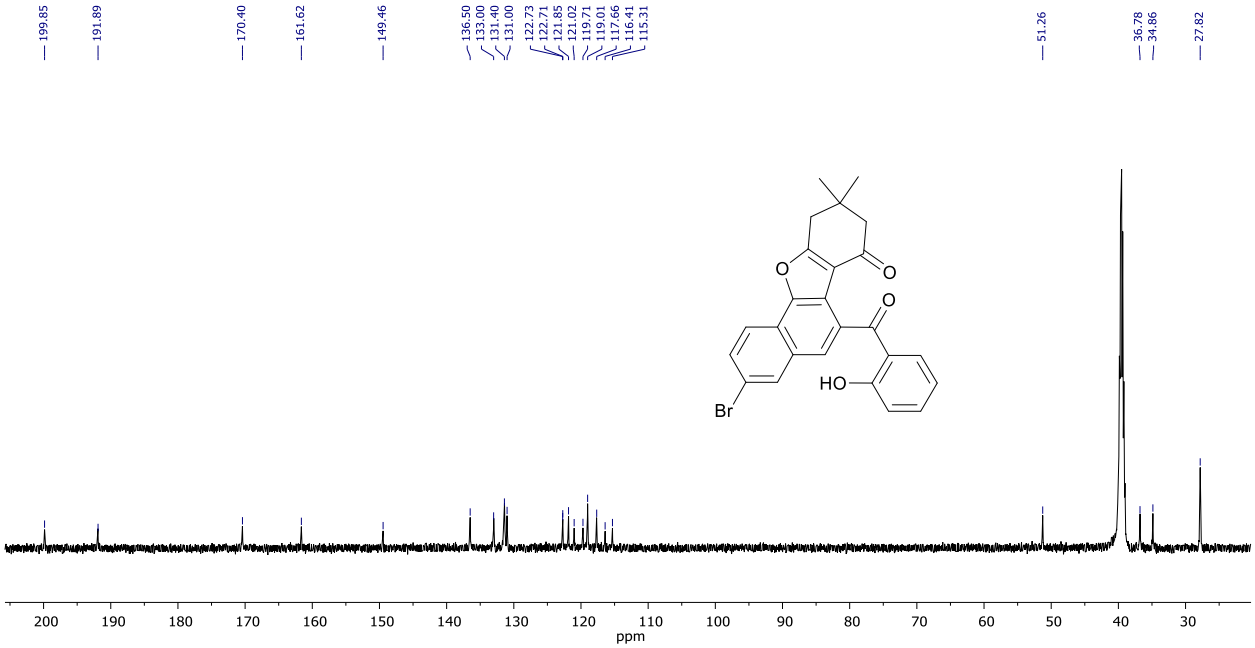
^{13}C NMR spectrum (126 MHz) of **5c** in DMSO-d_6



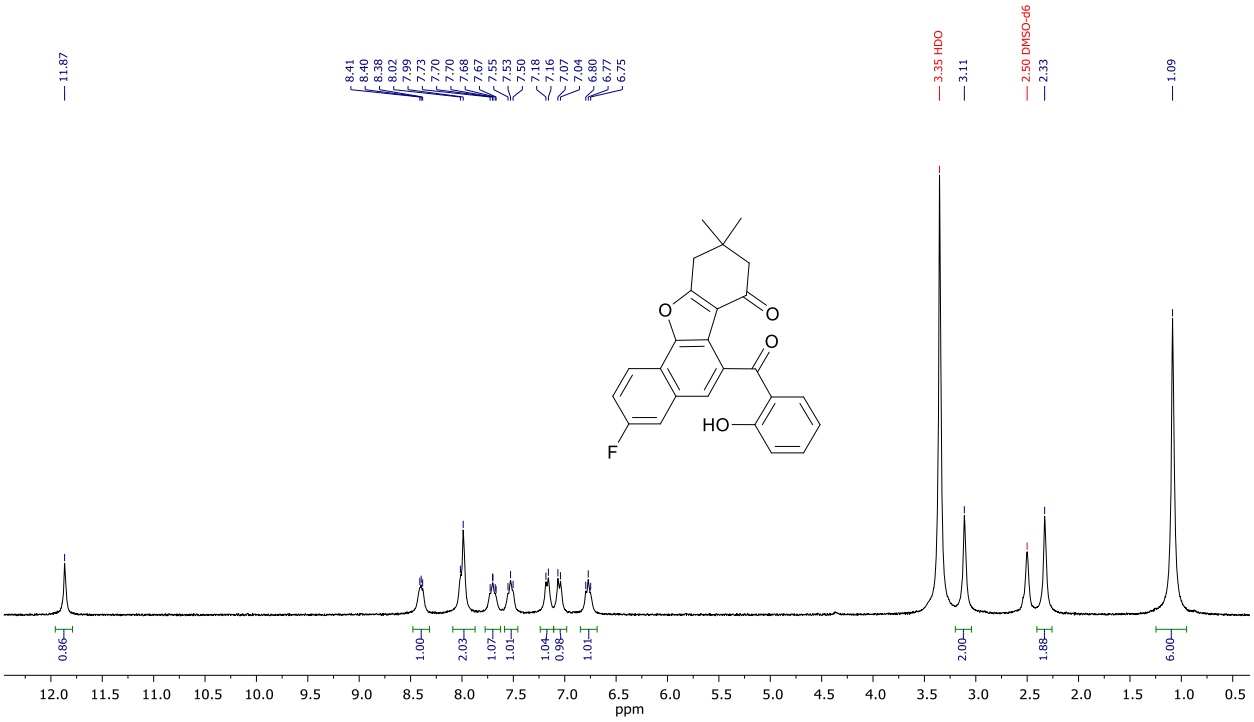
^{1}H NMR spectrum (400 MHz) of **5d** in DMSO-d_6



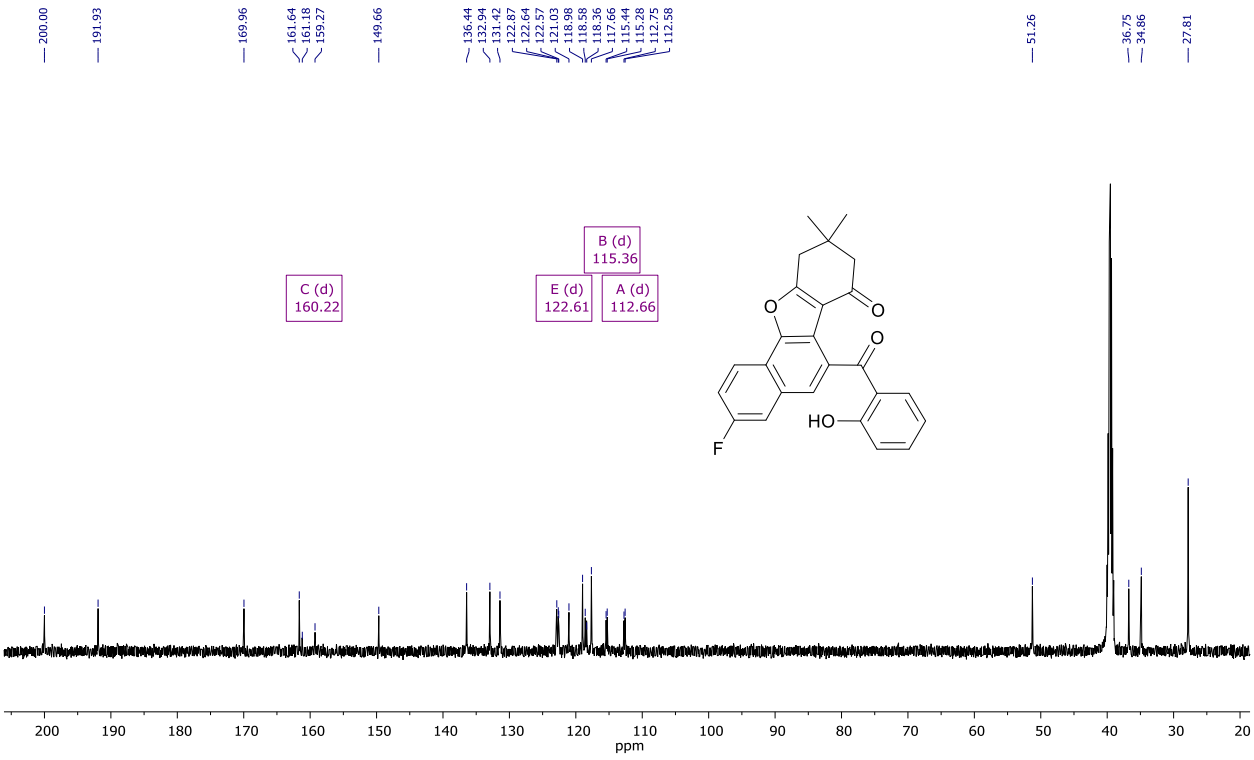
^{13}C NMR spectrum (126 MHz) of **5d** in DMSO-d_6



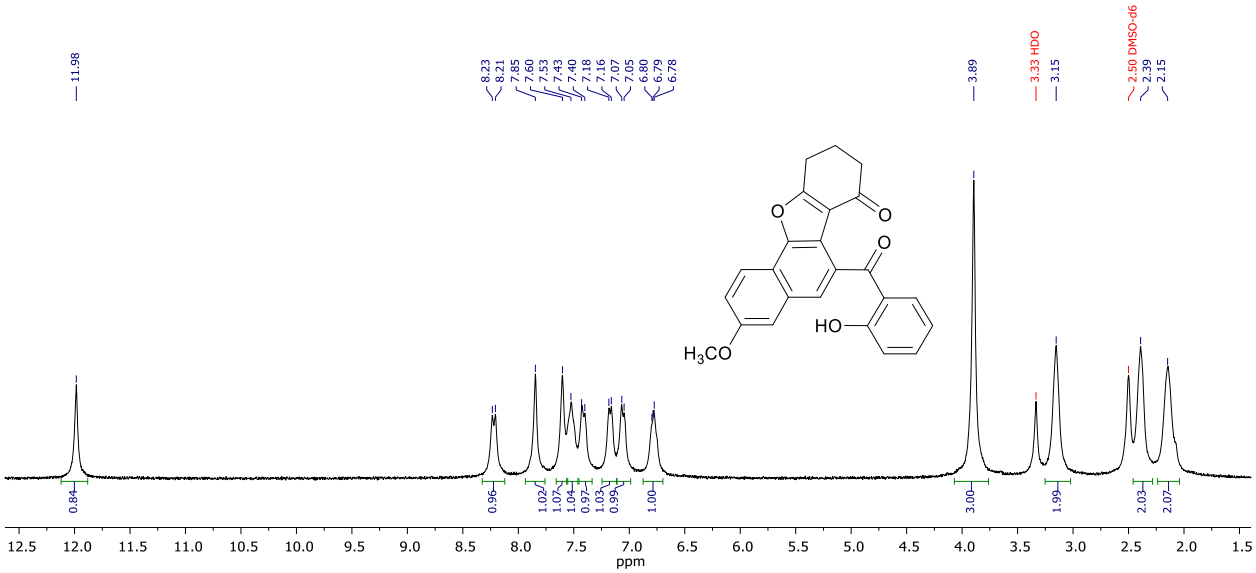
^{1}H NMR spectrum (300 MHz) of **5e** in DMSO-d_6



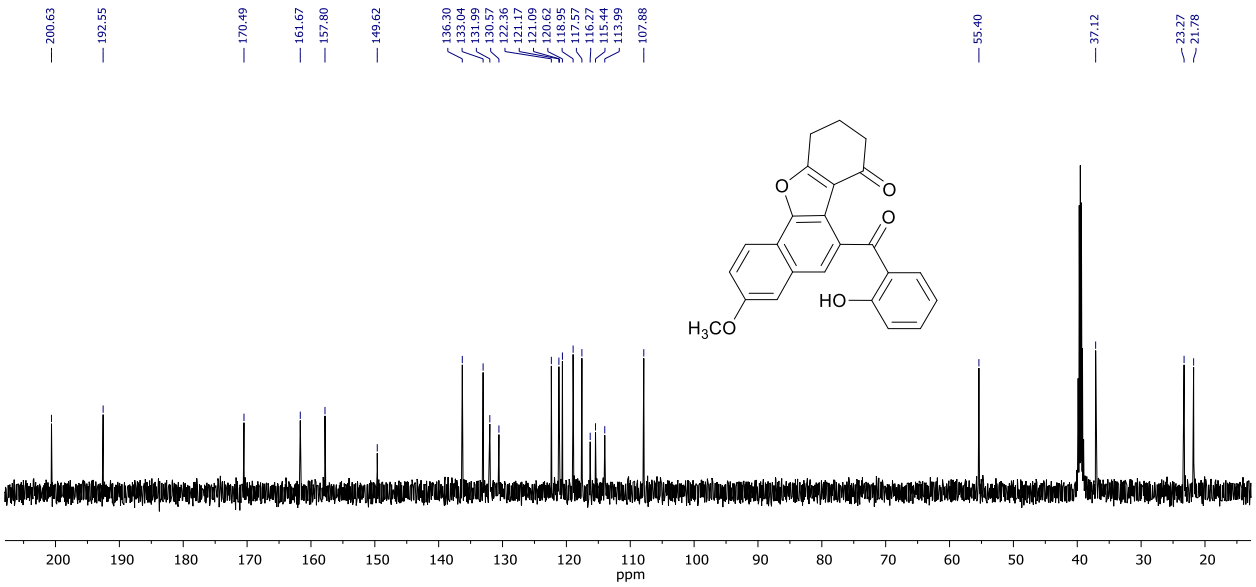
^{13}C NMR spectrum (126 MHz) of **5e** in DMSO-d_6



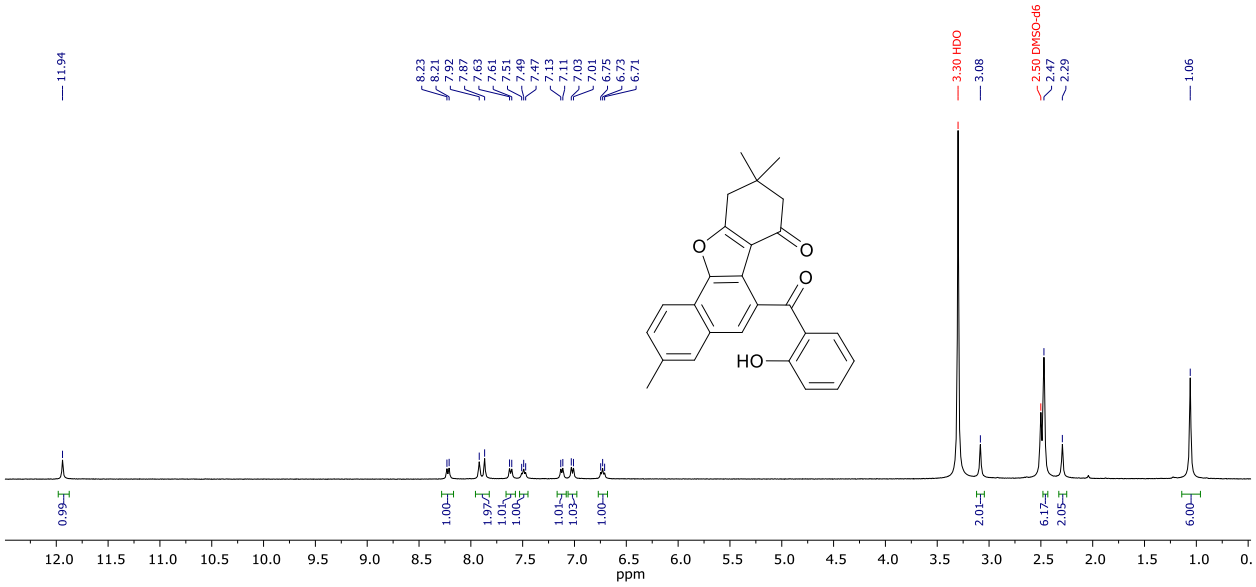
^{1}H NMR spectrum (300 MHz) of **5f** in DMSO-d_6



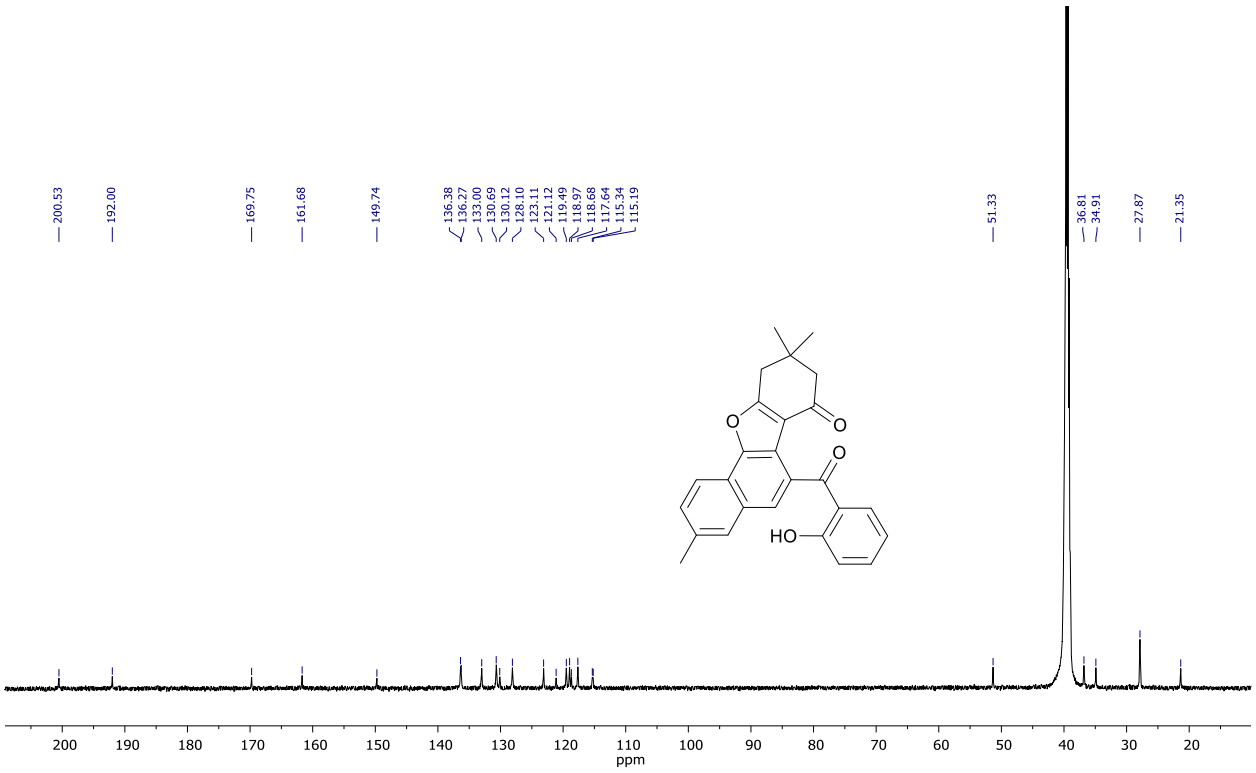
^{13}C NMR spectrum (126 MHz) of **5f** in DMSO-d_6



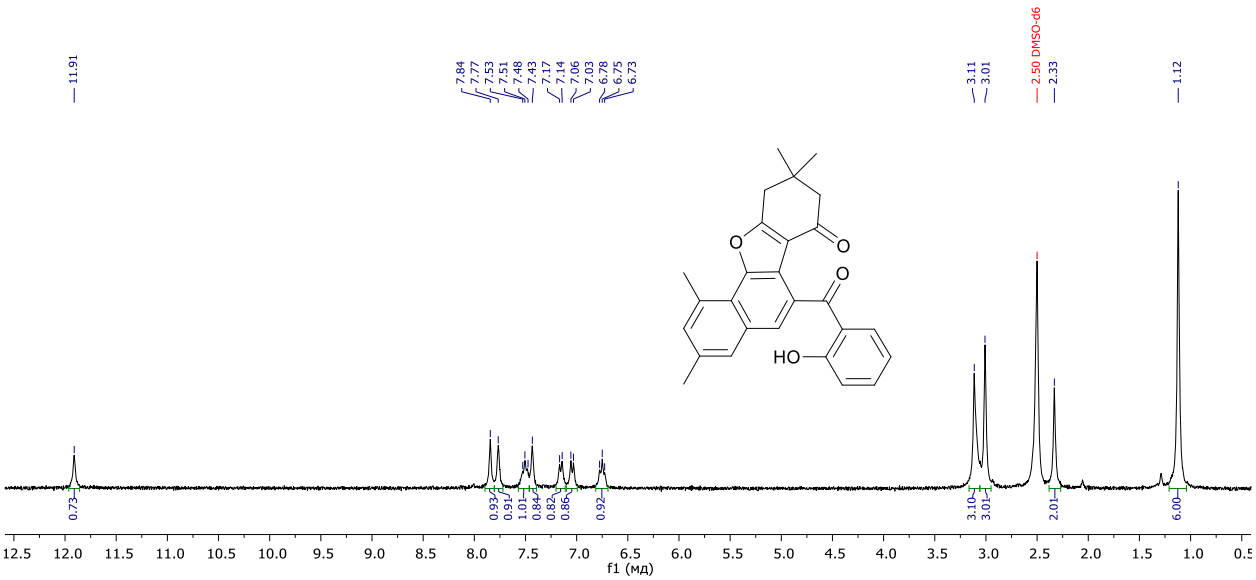
^{1}H NMR spectrum (400 MHz) of **5g** in DMSO-d_6



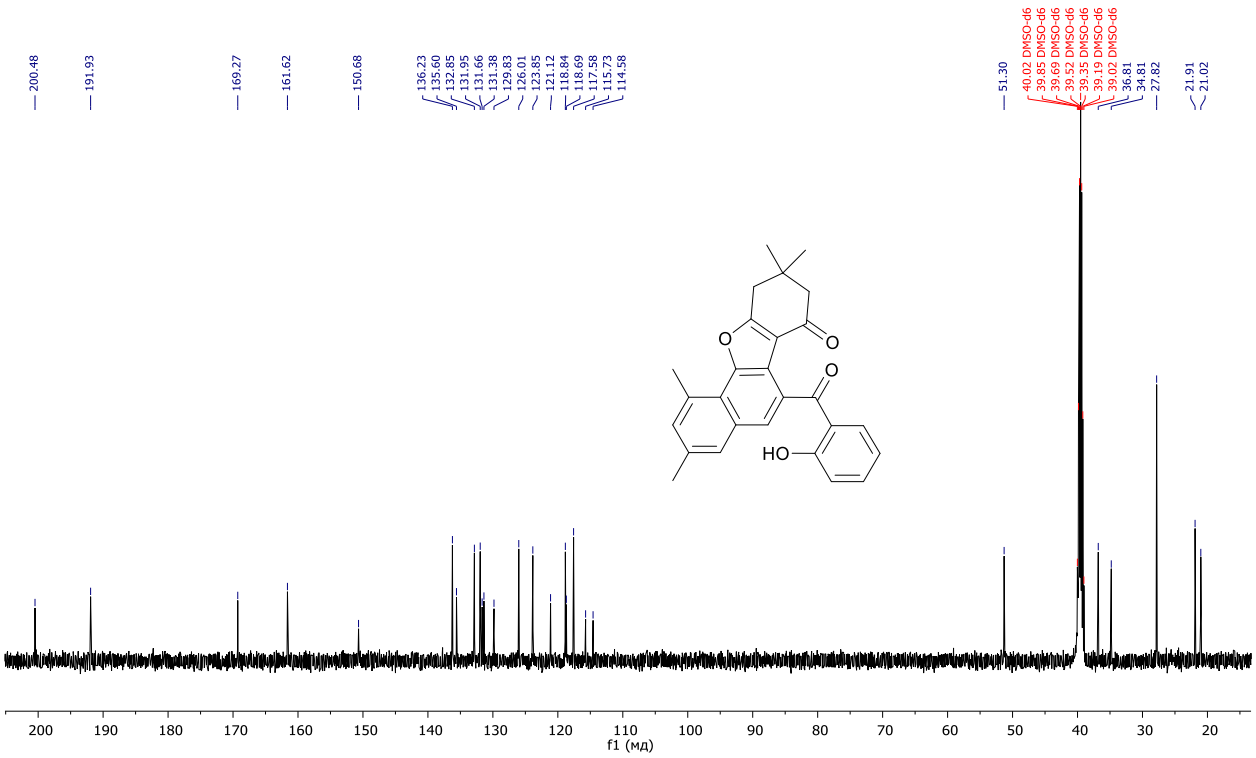
^{13}C NMR spectrum (126 MHz) of **5g** in DMSO-d_6



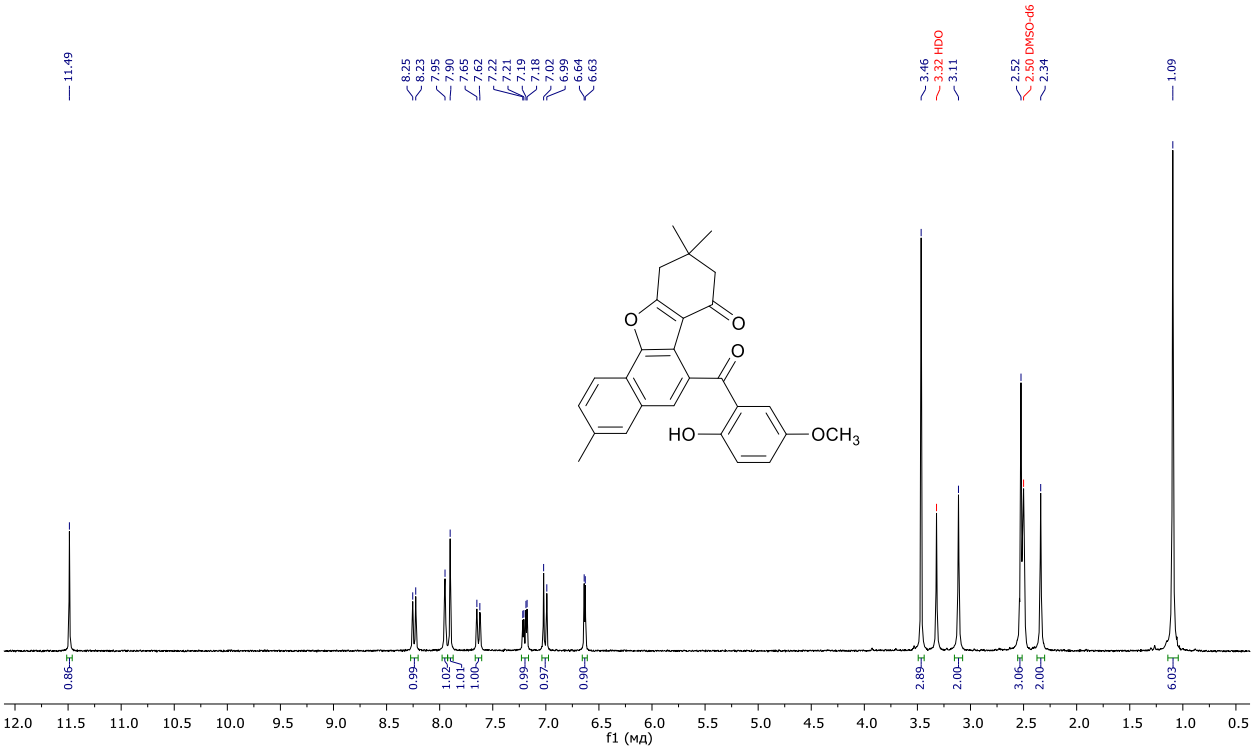
^{1}H NMR spectrum (300 MHz) of **5h** in DMSO-d_6



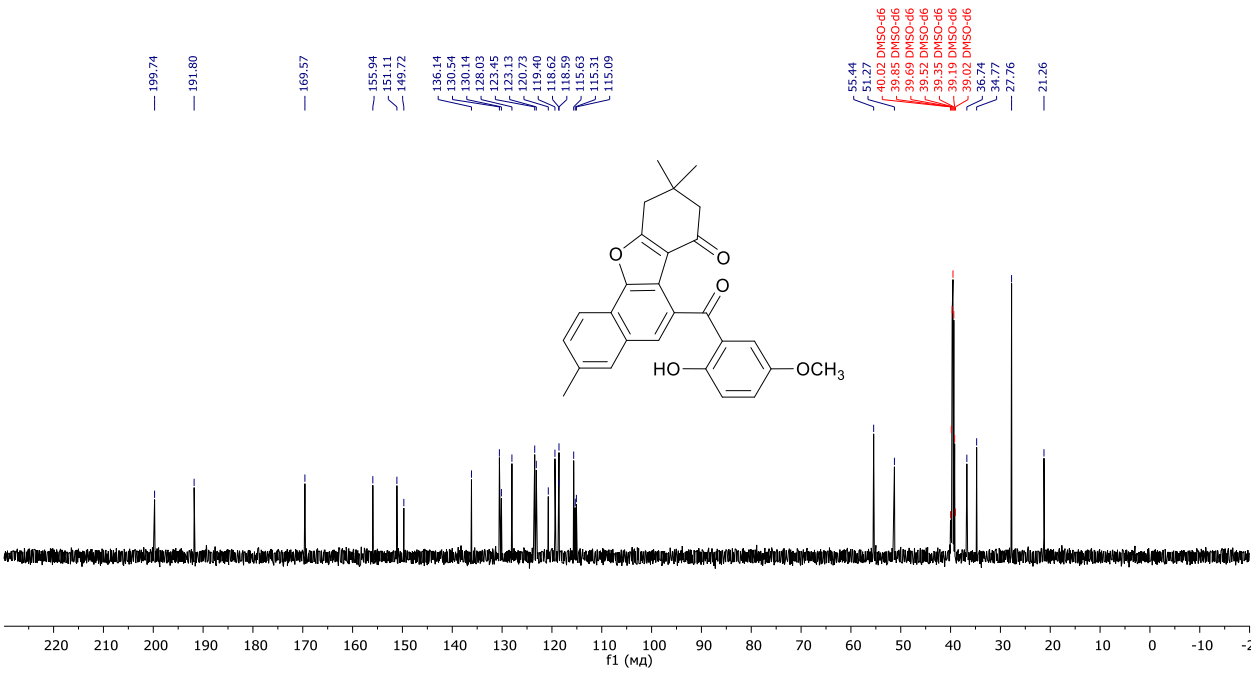
^{13}C NMR spectrum (126 MHz) of **5h** in DMSO-d_6



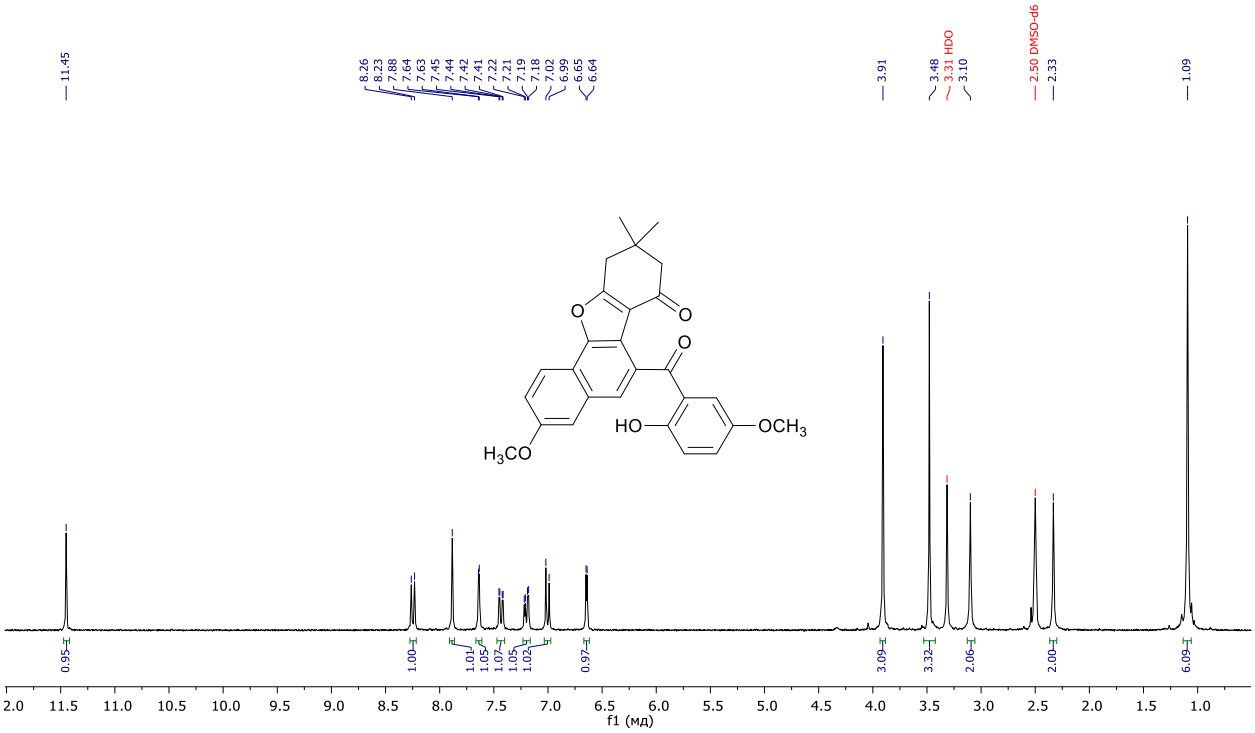
^{1}H NMR spectrum (300 MHz) of **5i** in DMSO-d_6



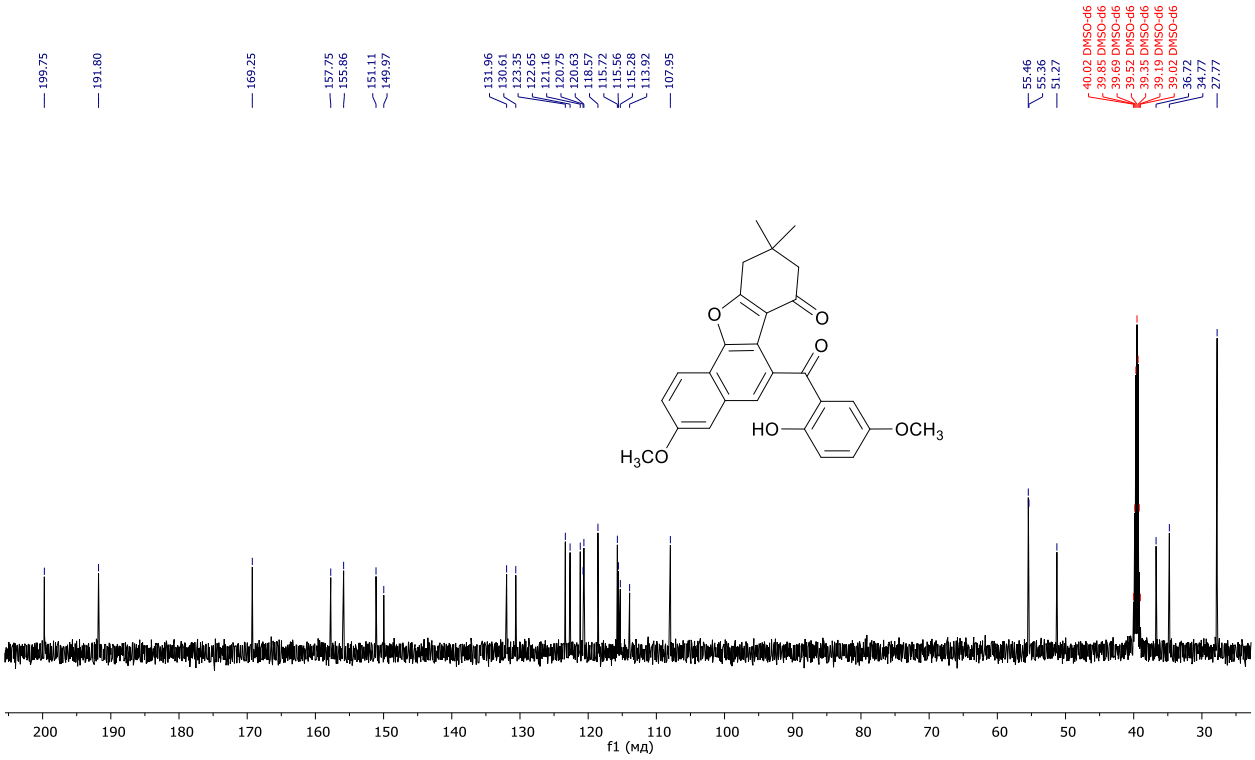
^{13}C NMR spectrum (126 MHz) of **5i** in DMSO-d_6



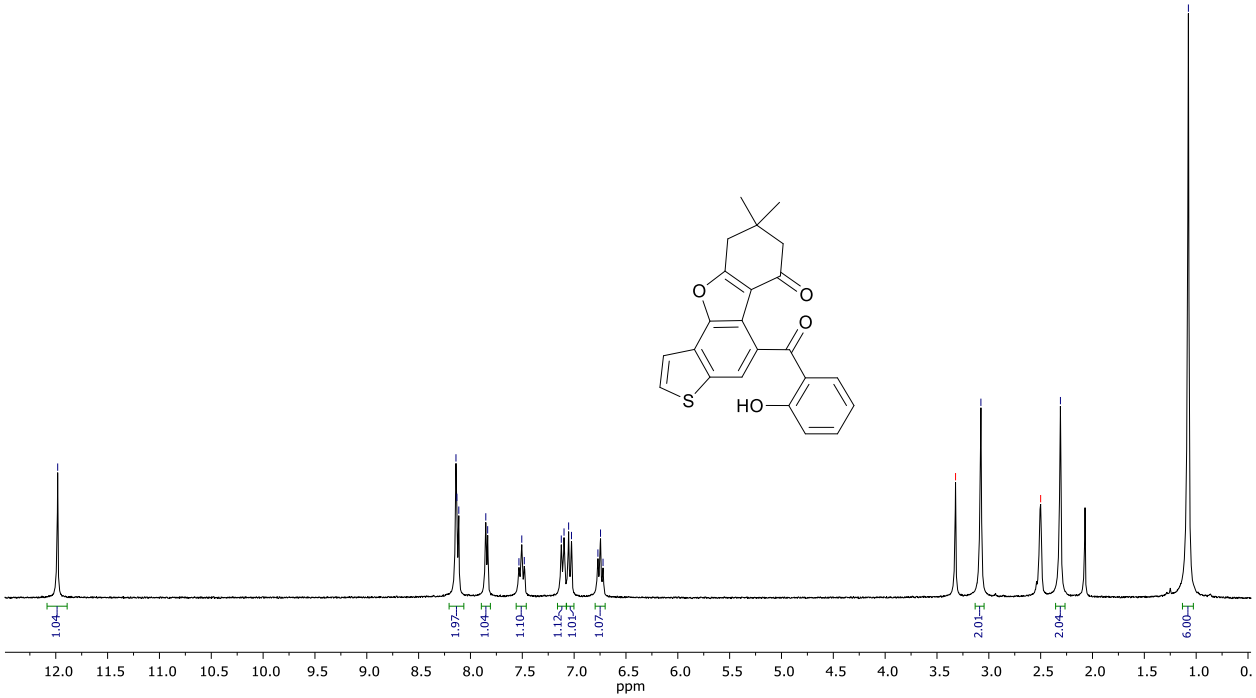
^{1}H NMR spectrum (300 MHz) of **5j** in DMSO-d_6



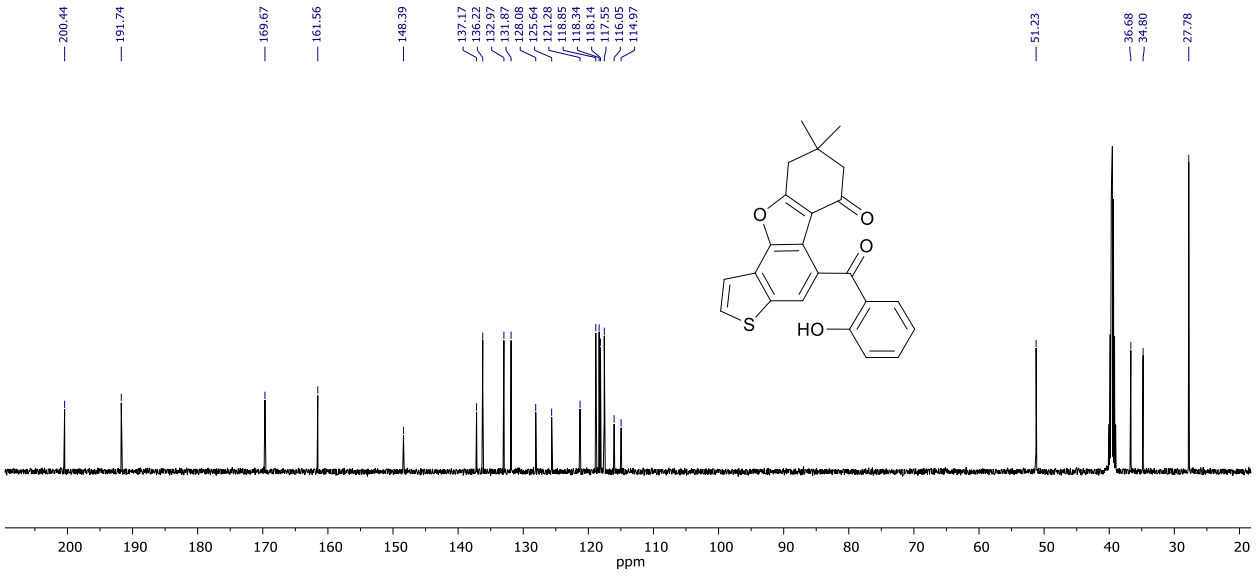
^{13}C NMR spectrum (126 MHz) of **5j** in DMSO-d_6



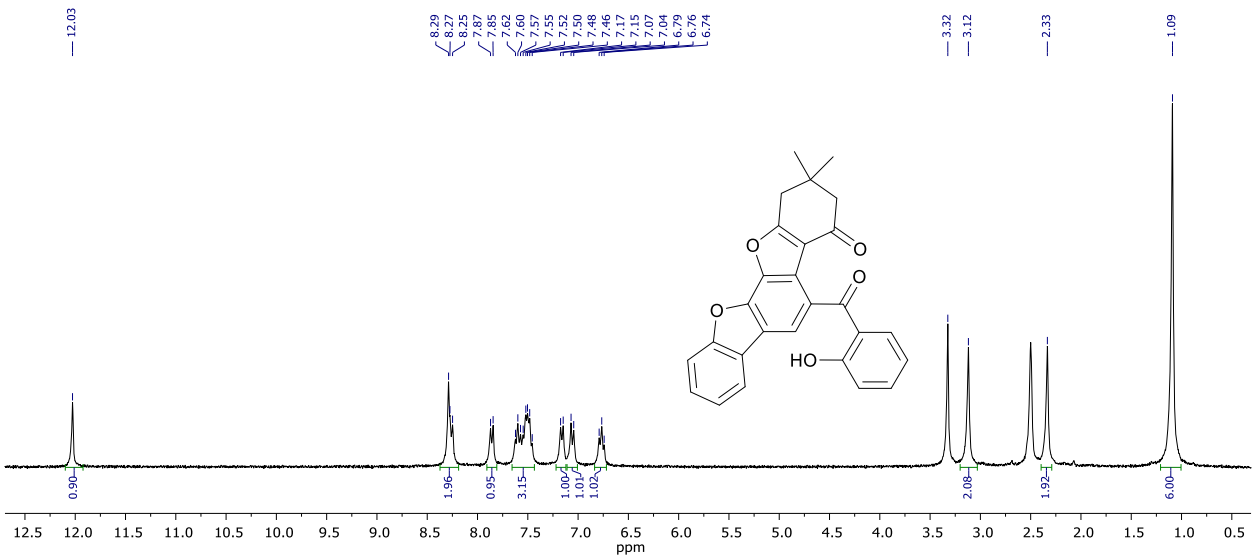
^{1}H NMR spectrum (300 MHz) of **5k** in DMSO-d_6



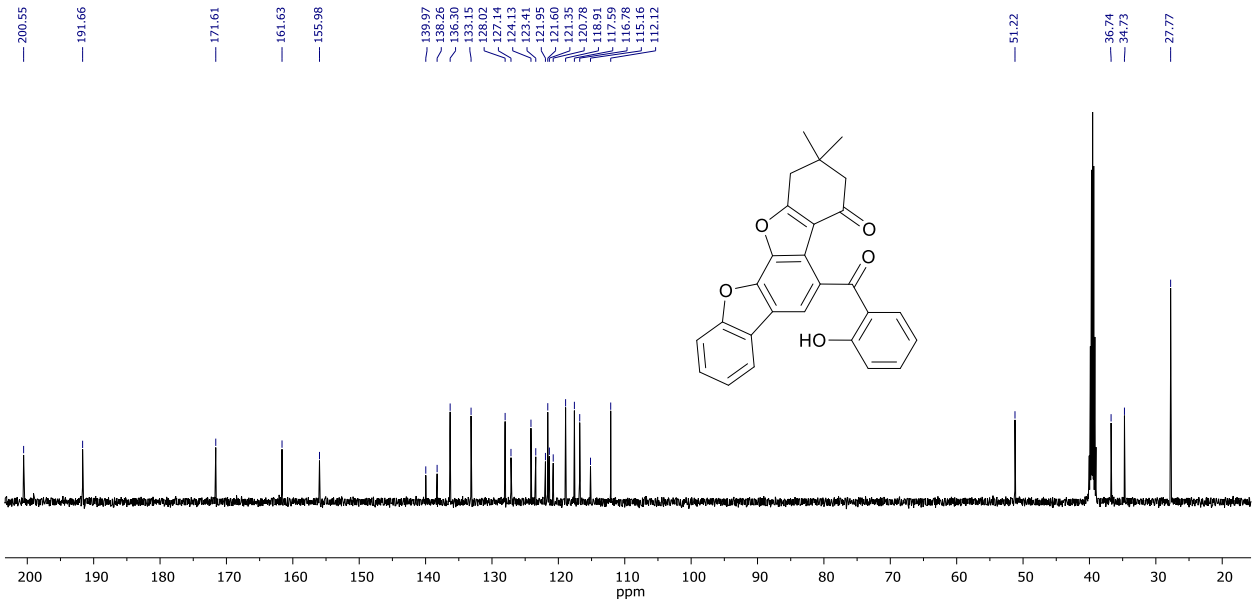
^{13}C NMR spectrum (126 MHz) of **5k** in DMSO-d_6



^{1}H NMR spectrum (300 MHz) of **5l** in DMSO-d_6

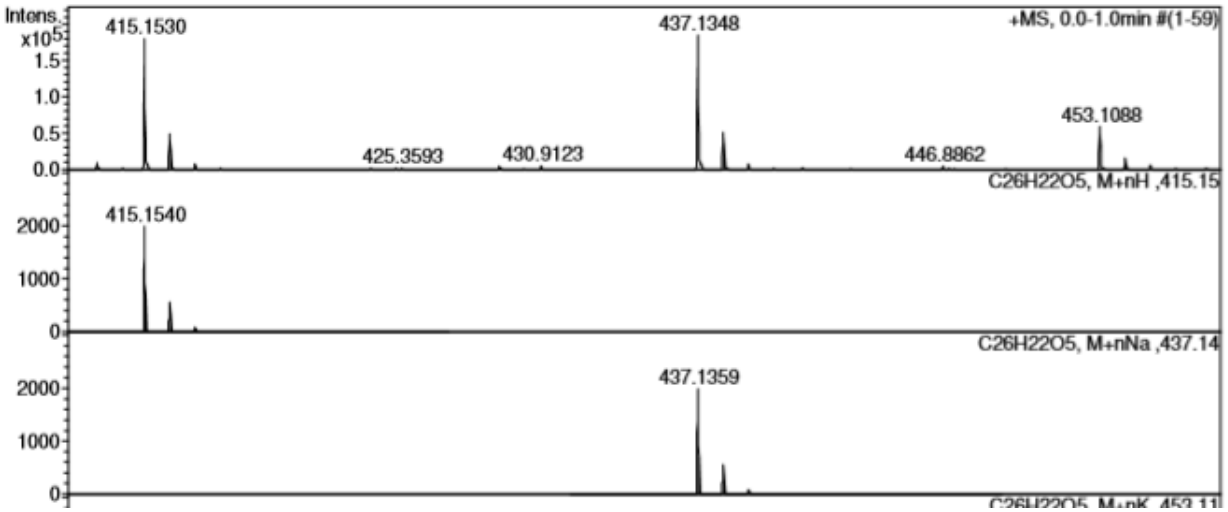


^{13}C NMR spectrum (126 MHz) of **5l** in DMSO-d_6

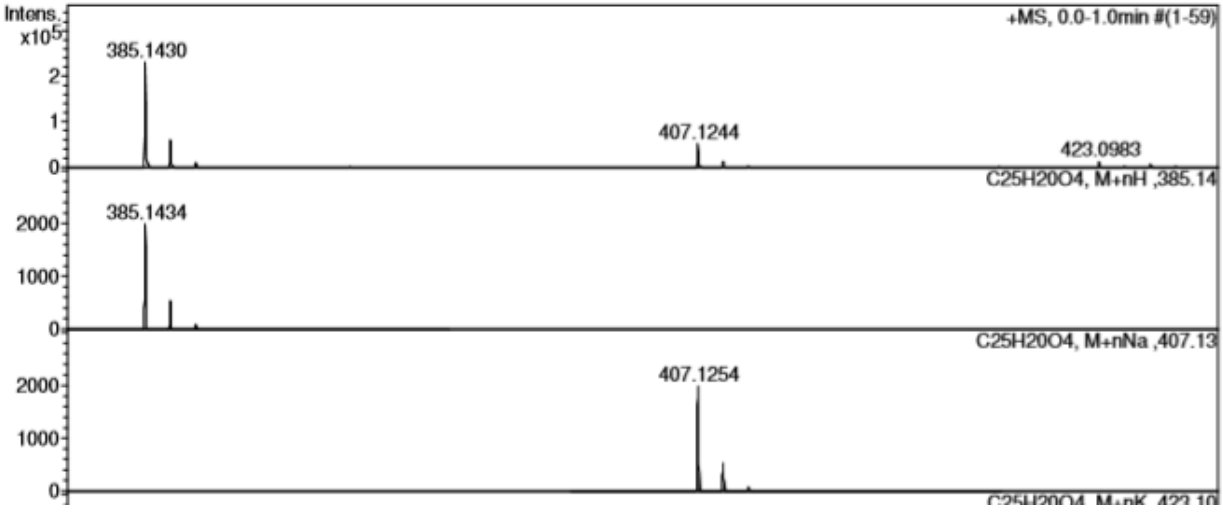


3. HRMS for all compounds.

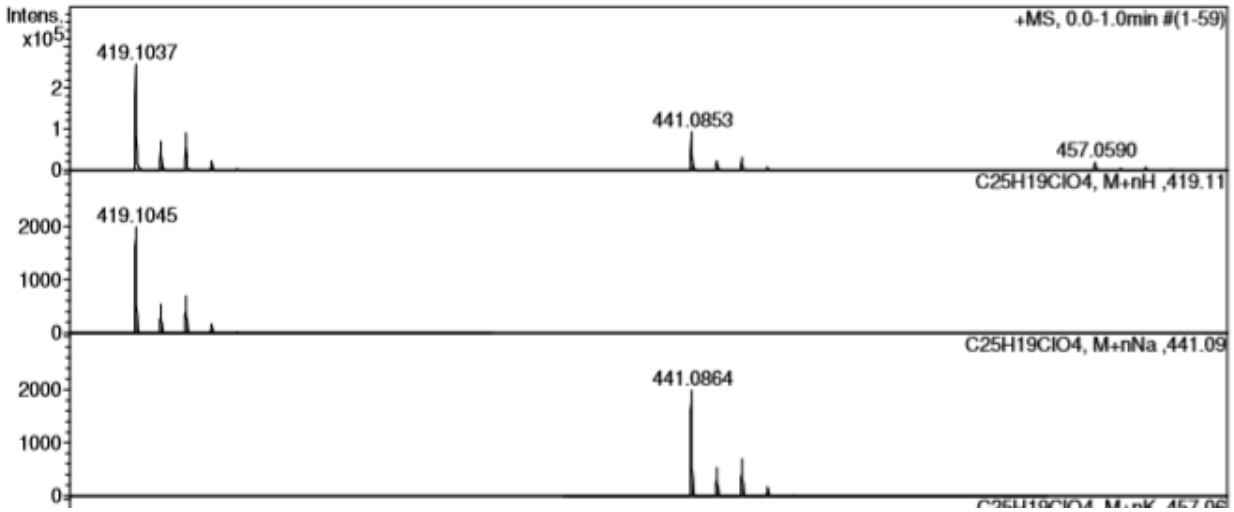
HRMS for **1a**



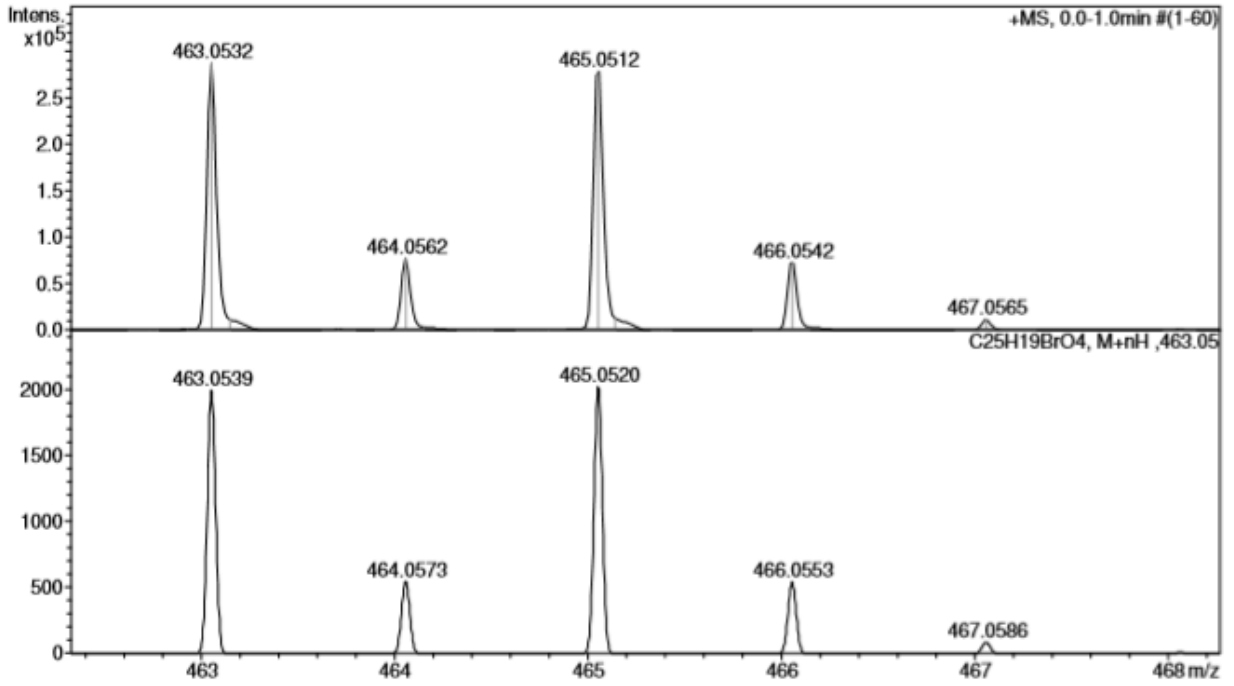
HRMS for **1b**



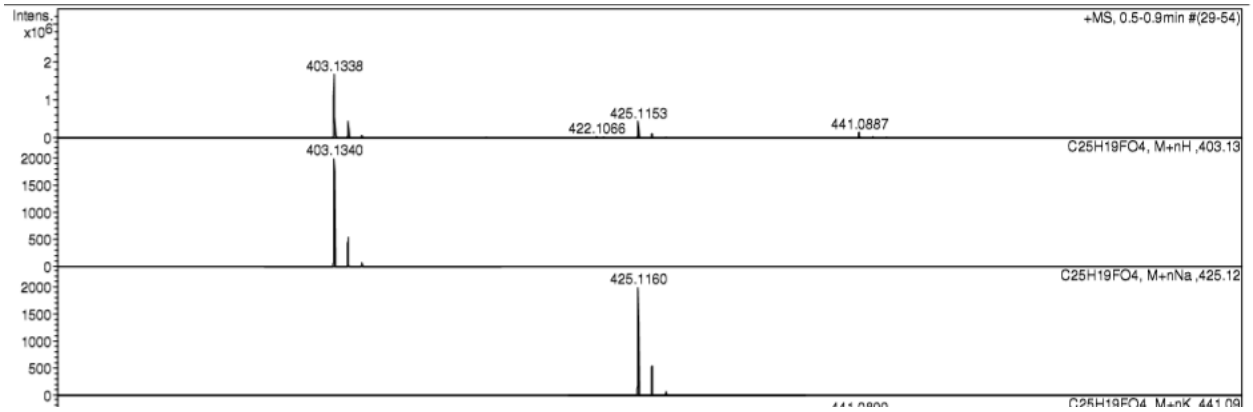
HRMS for **1c**



HRMS for **1d**



HRMS for **1e**



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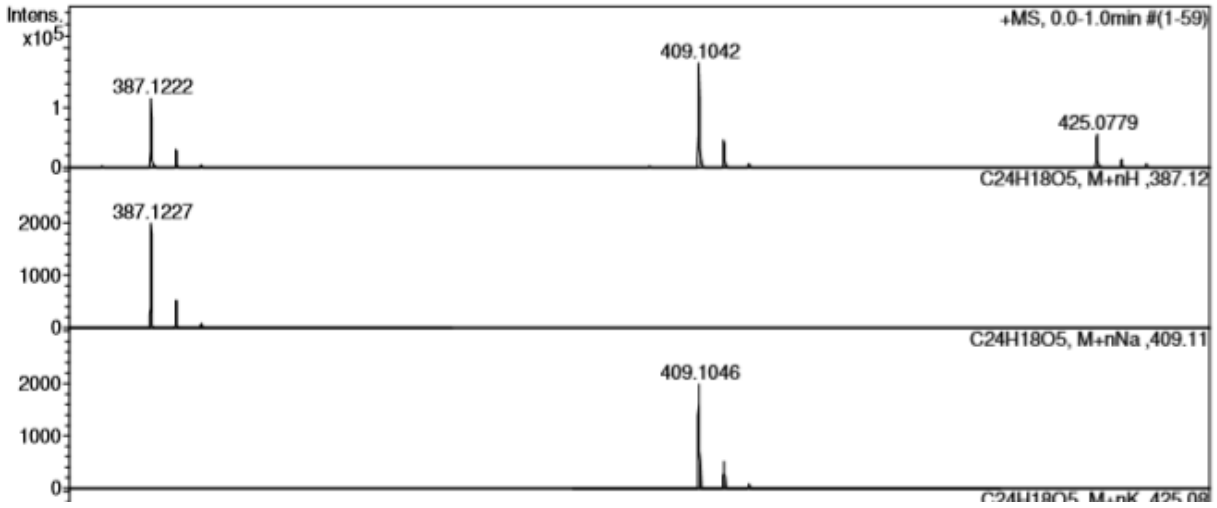
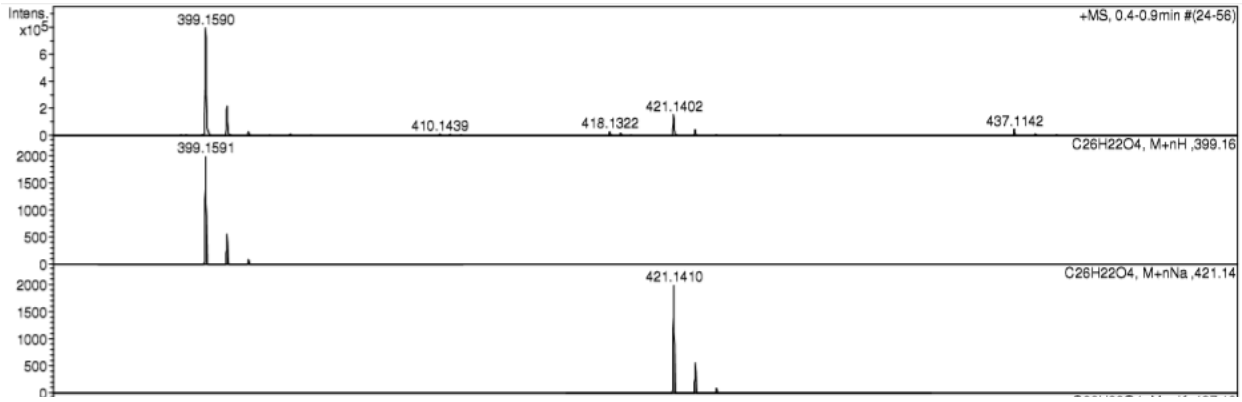
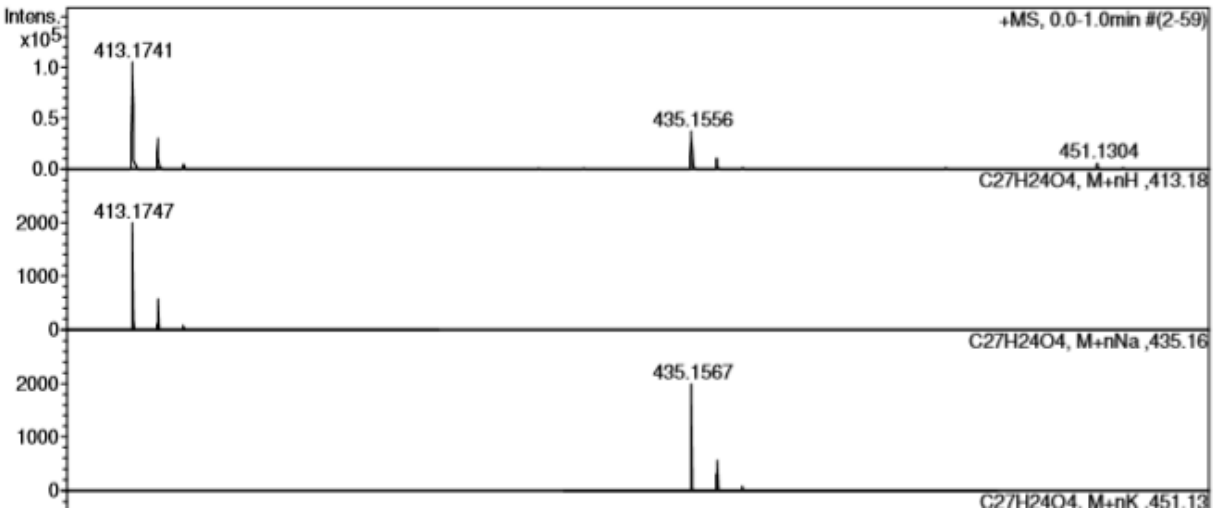


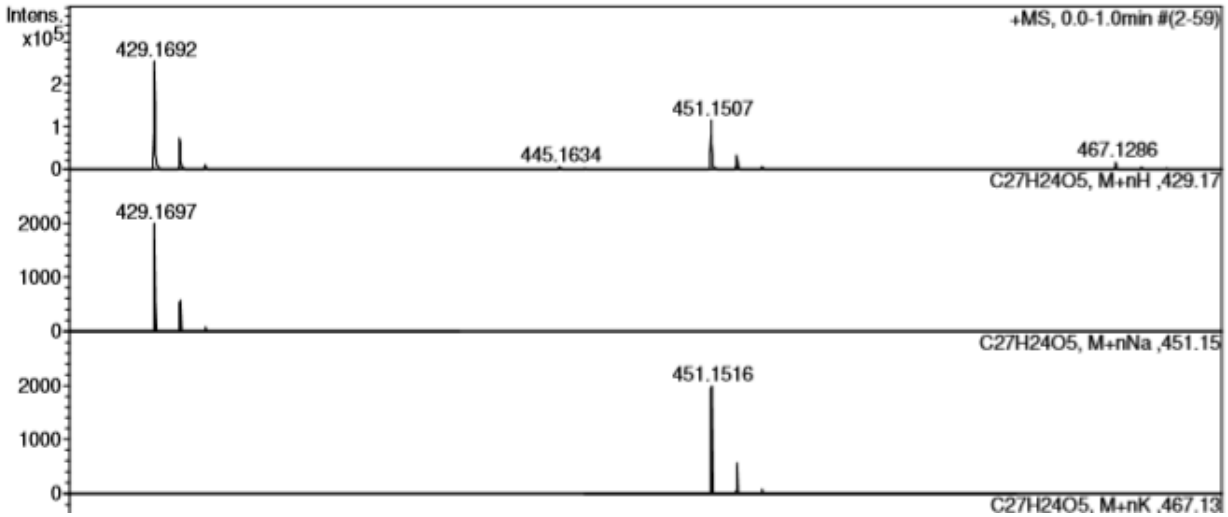
HRMS for **1g**



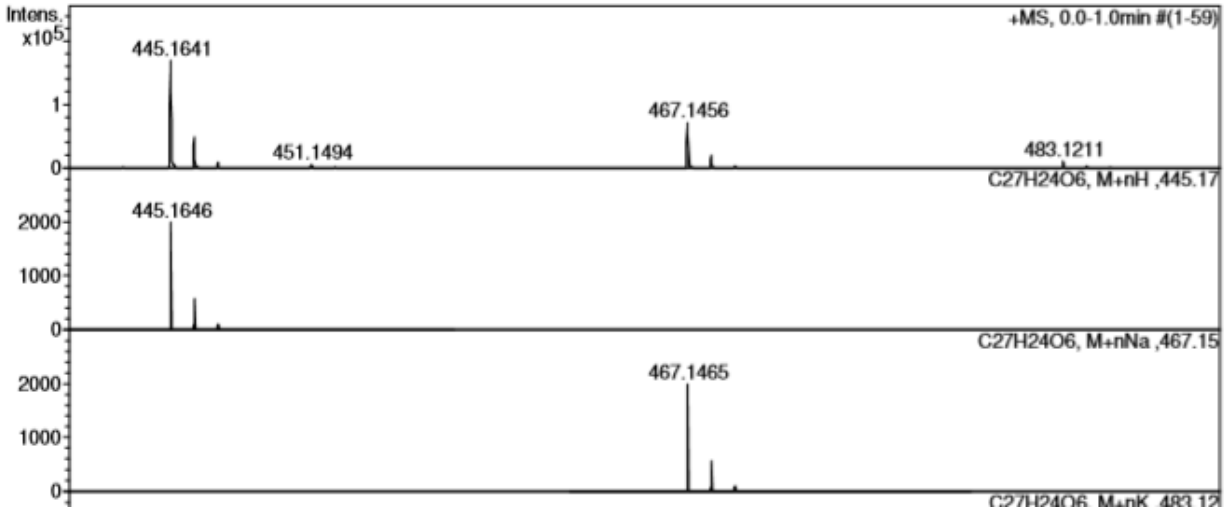
HRMS for **1h**



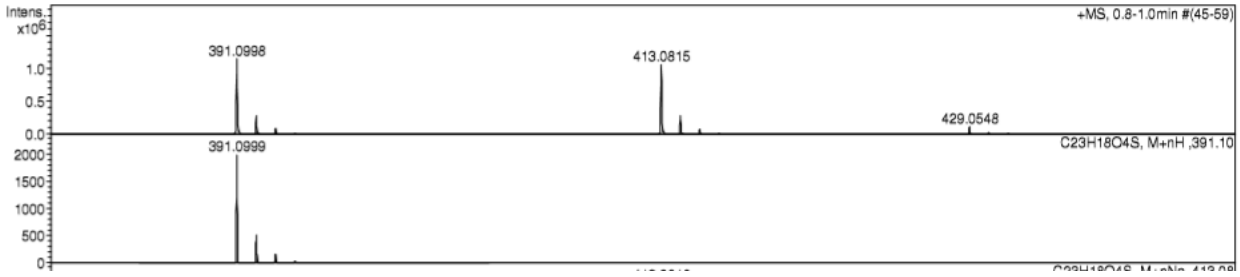
HRMS for **1i**



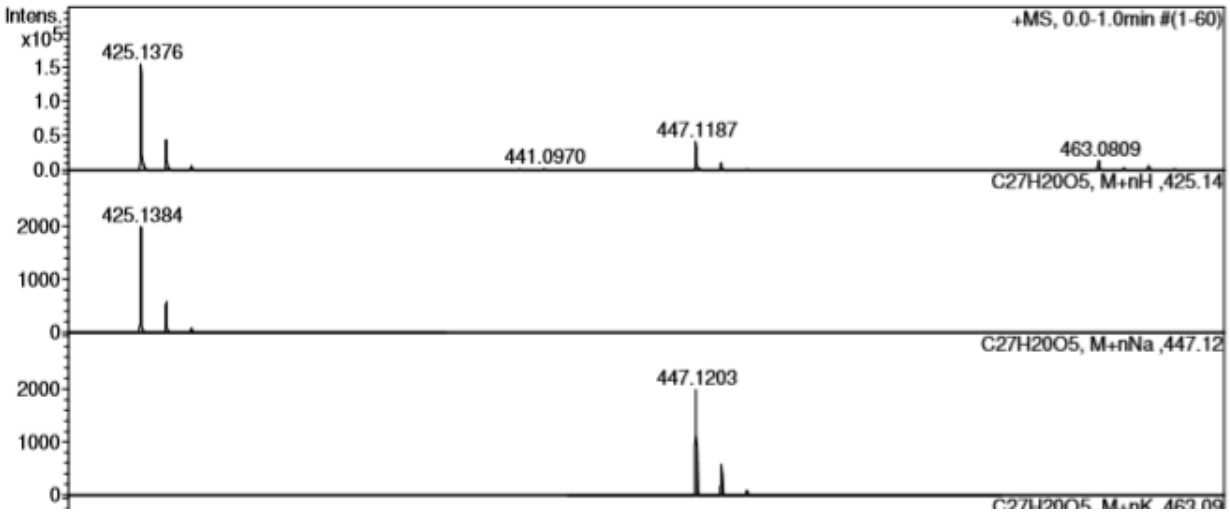
HRMS for **1j**



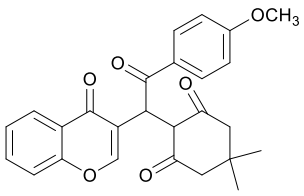
HRMS for **1k**



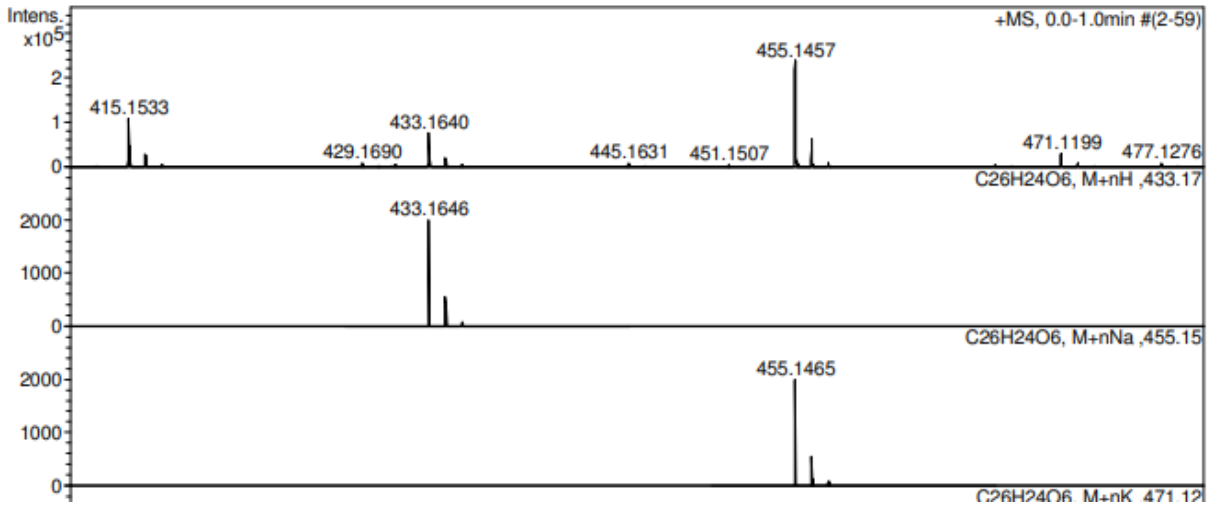
HRMS for **1l**



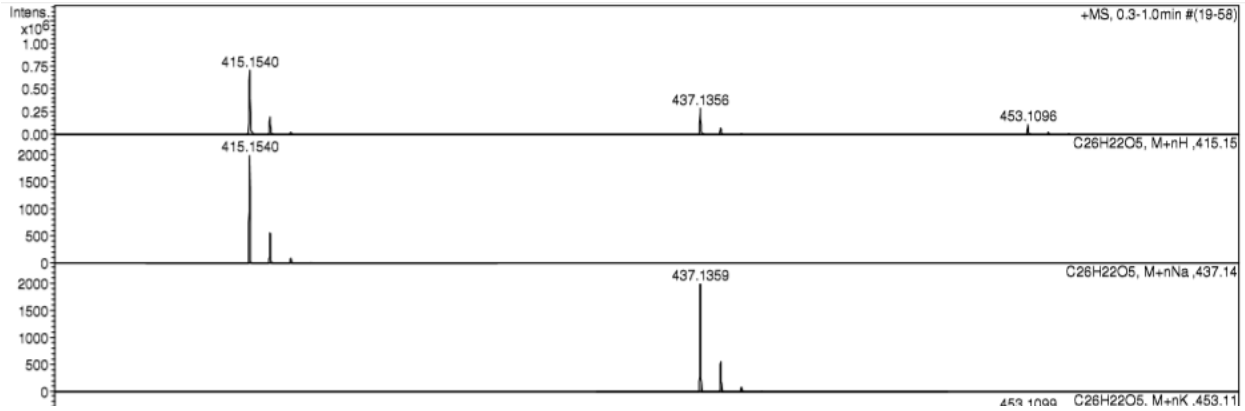
HRMS for intermediate **C**



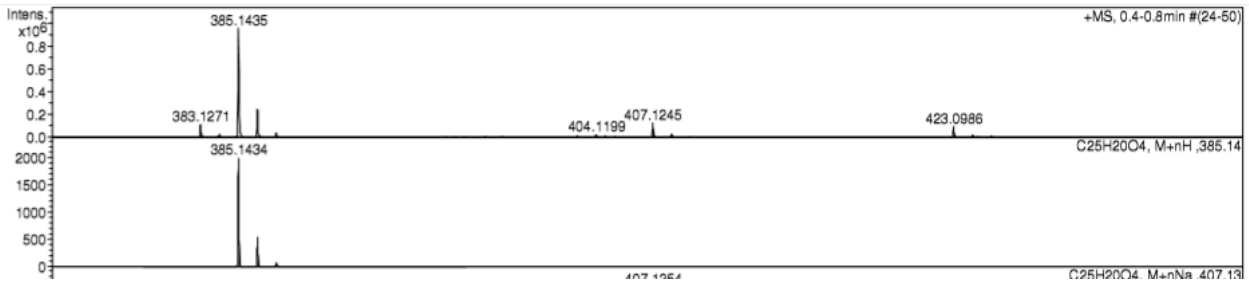
Chemical Formula: $C_{26}H_{24}O_6$



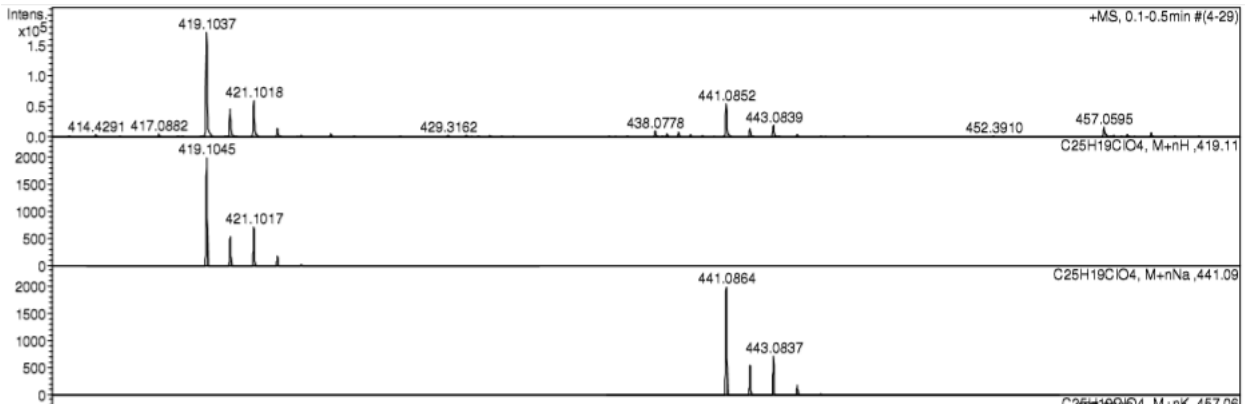
HRMS for **5a**



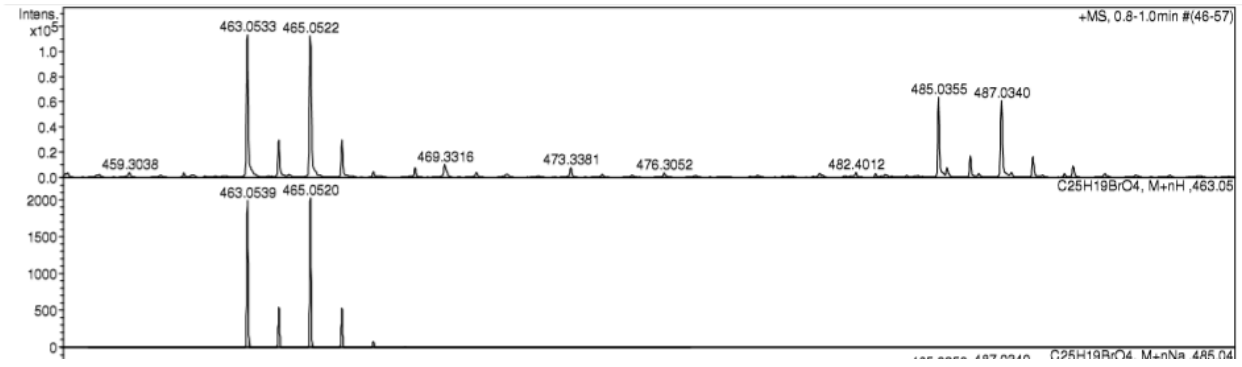
HRMS for **5b**



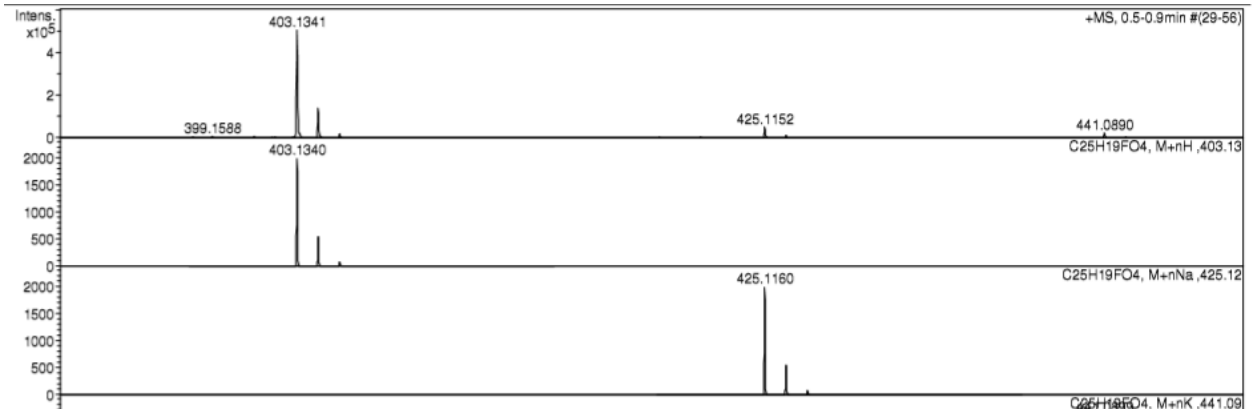
HRMS for **5c**



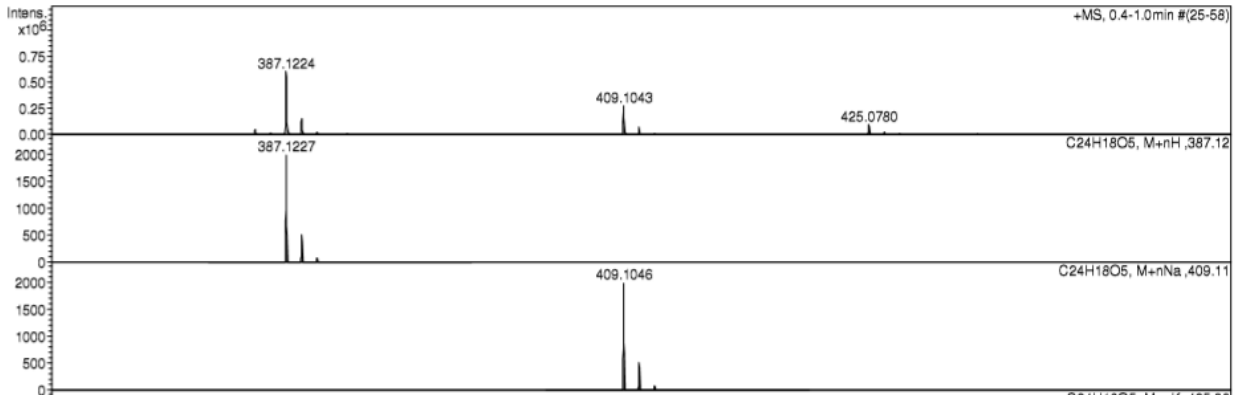
HRMS for **5d**



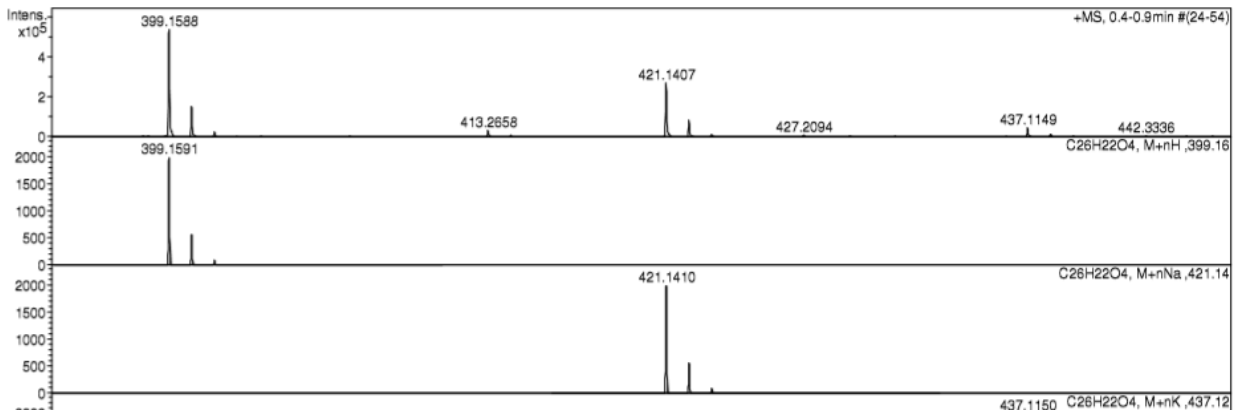
HRMS for **5e**



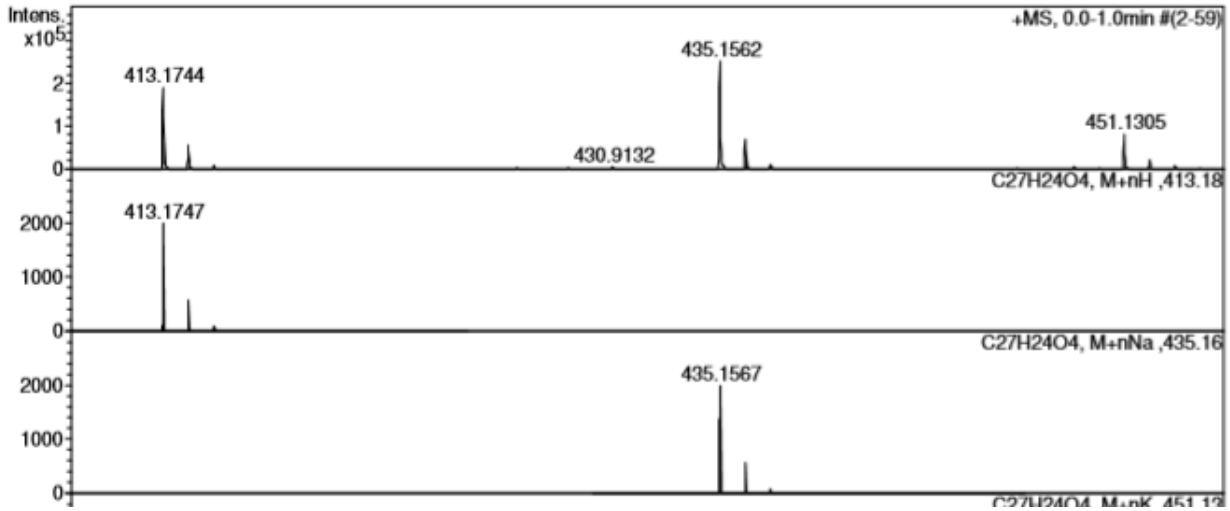
HRMS for **5f**



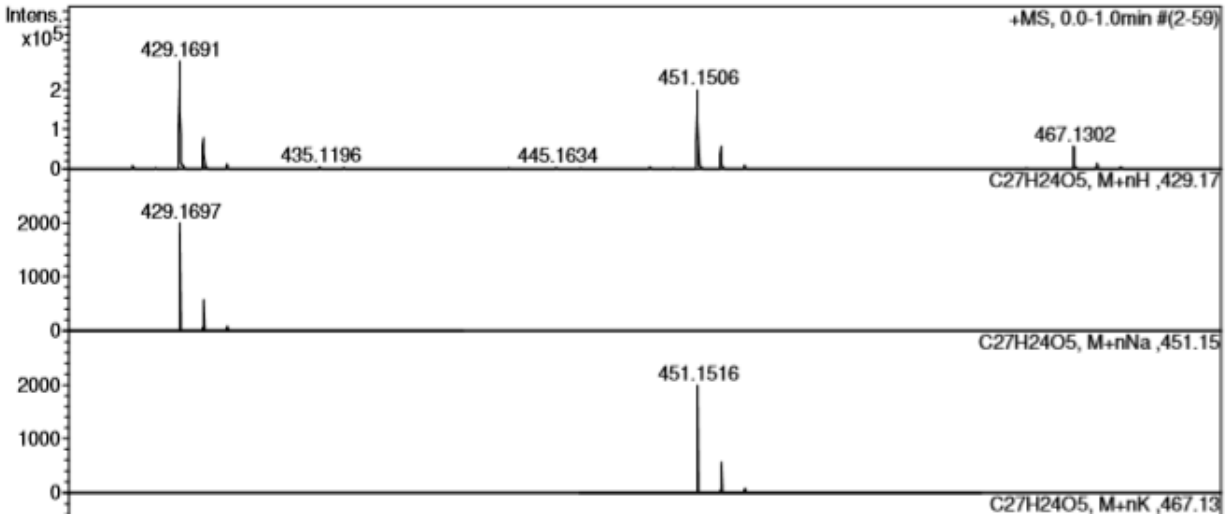
HRMS for **5g**



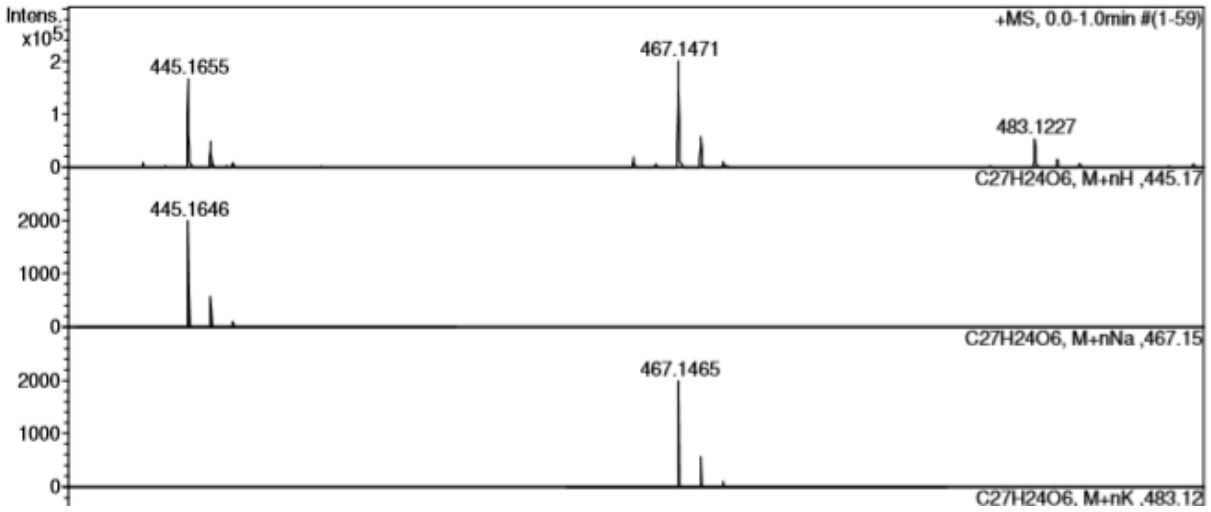
HRMS for **5h**



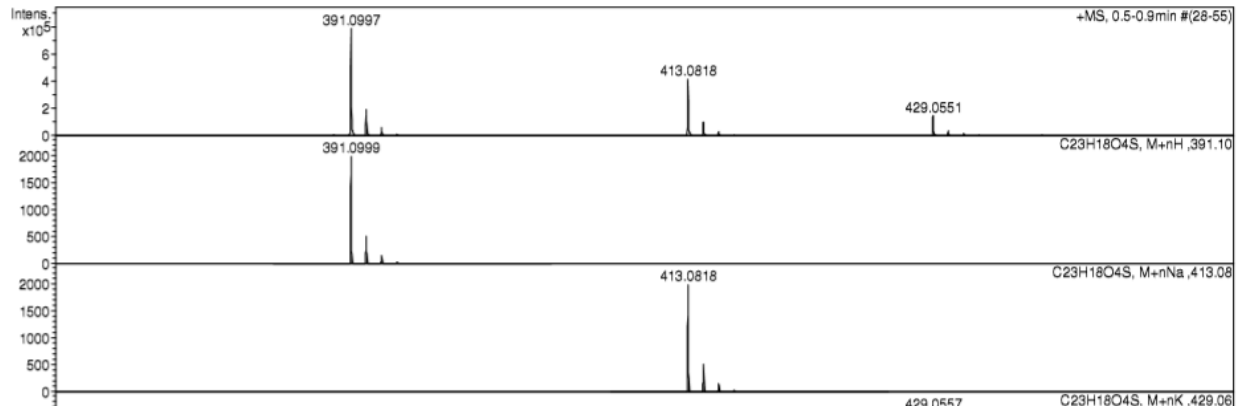
HRMS for **5i**



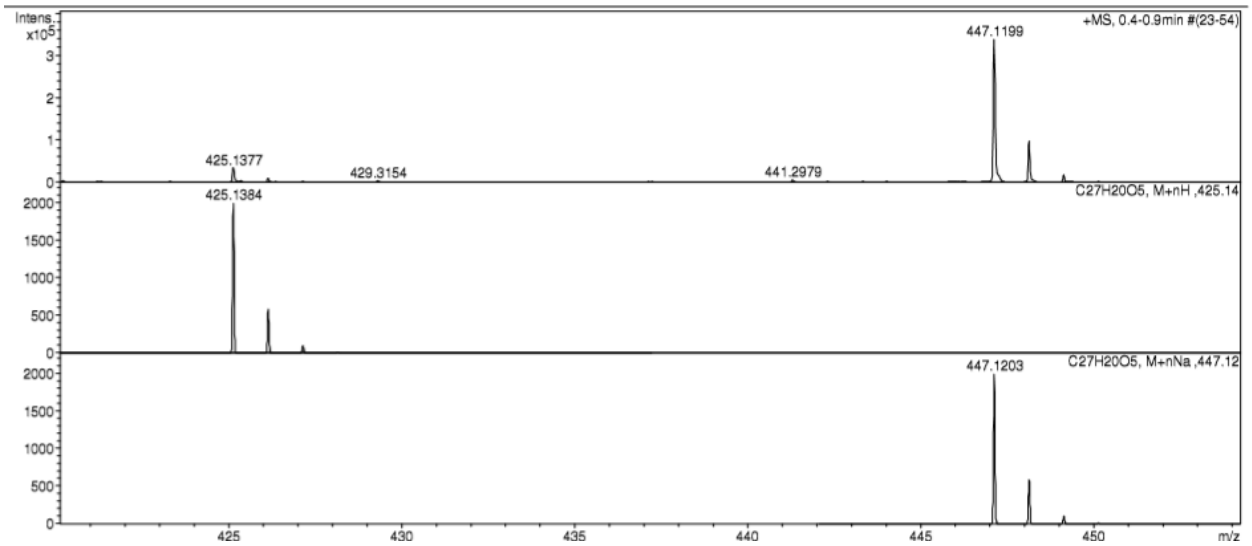
HRMS for **5j**



HRMS for **5k**



HRMS for **5l**



4. Photochemical setup.