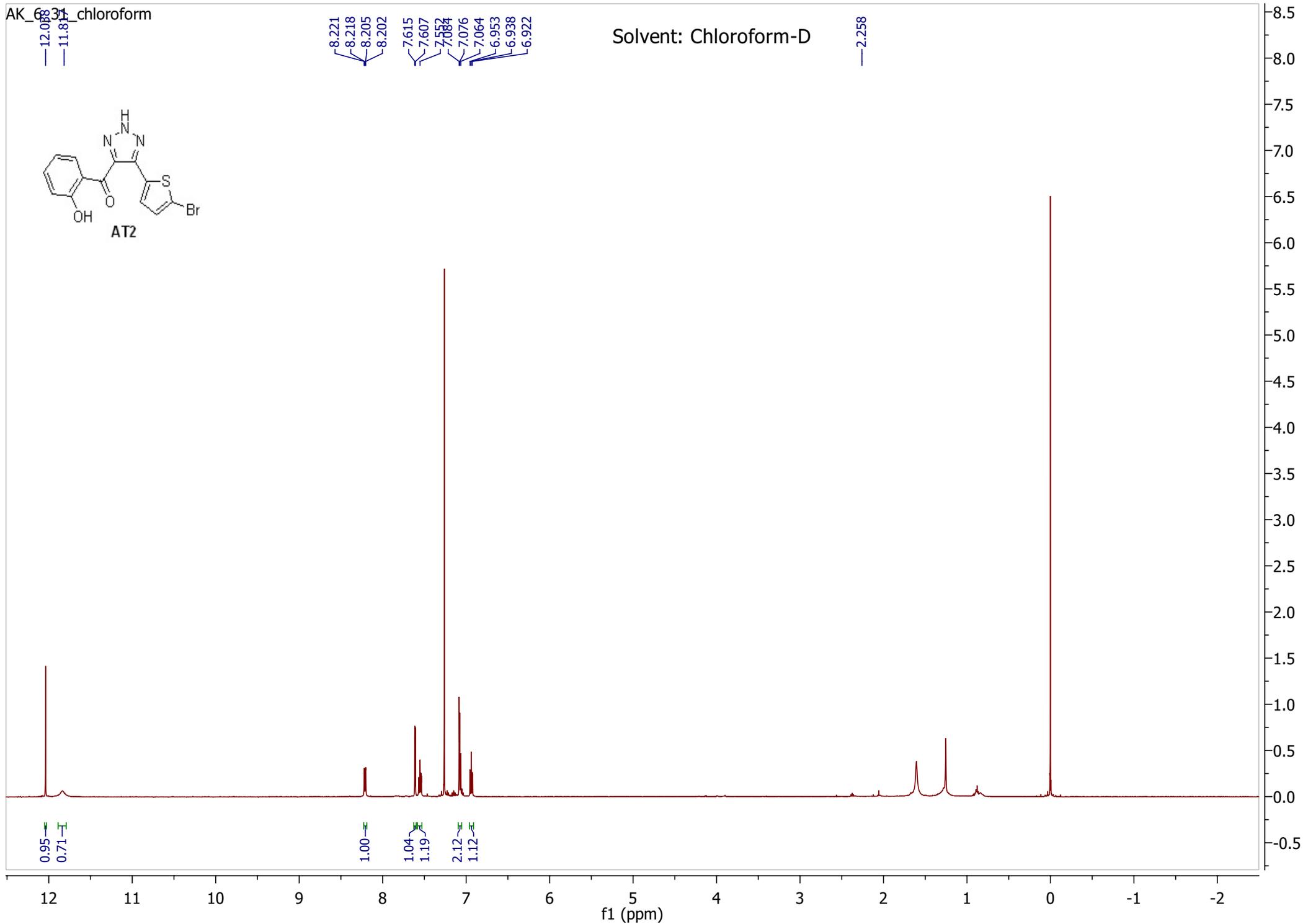
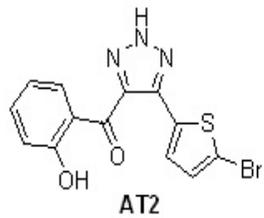


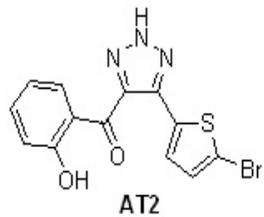
Supplementary figures and information:

Figure S1: NMR spectra for AT2 and AT5

AK_6831_chloroform

Solvent: Chloroform-D





191.294

163.880

137.418

133.704

130.743

129.713

119.488

119.326

118.583

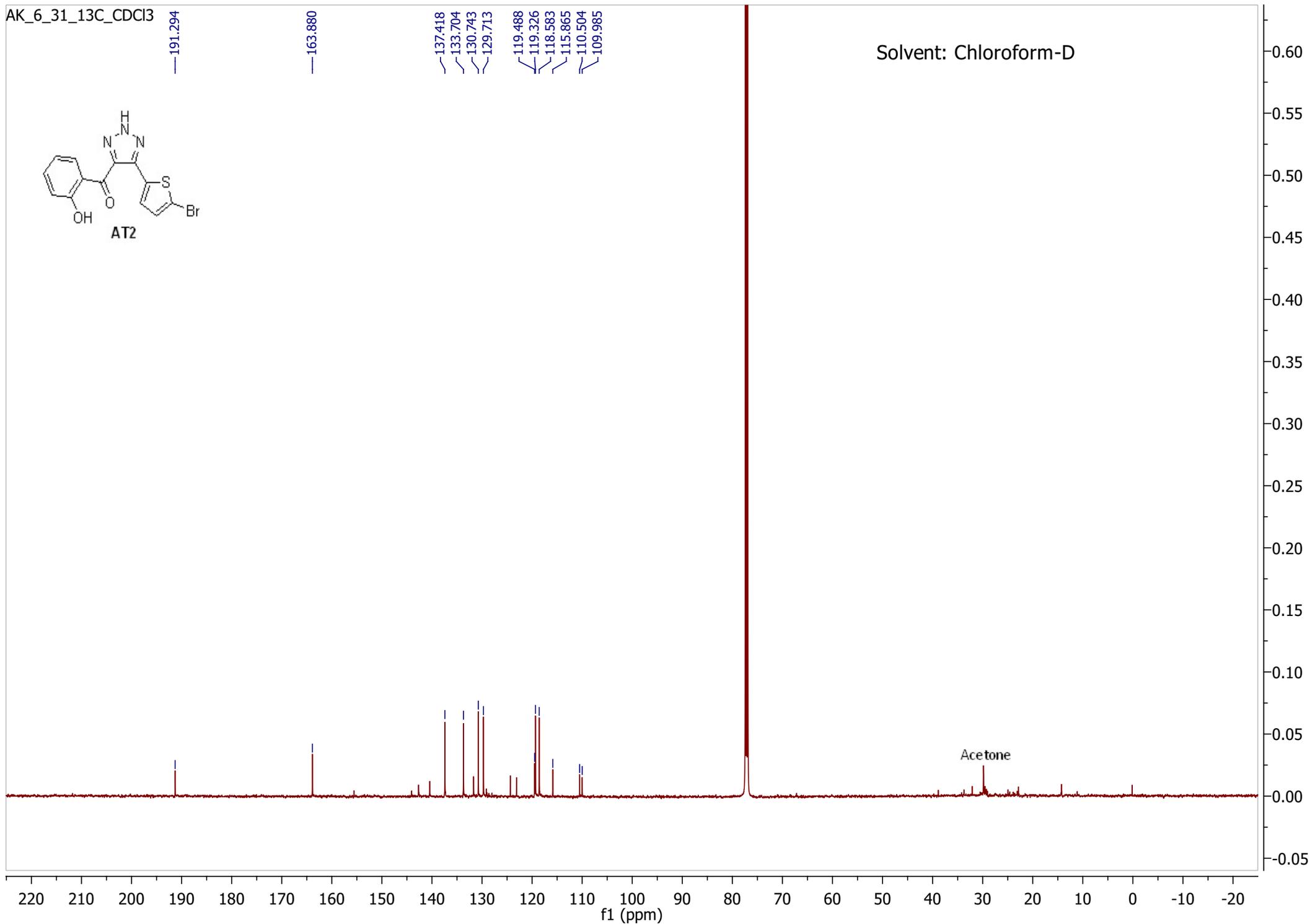
115.865

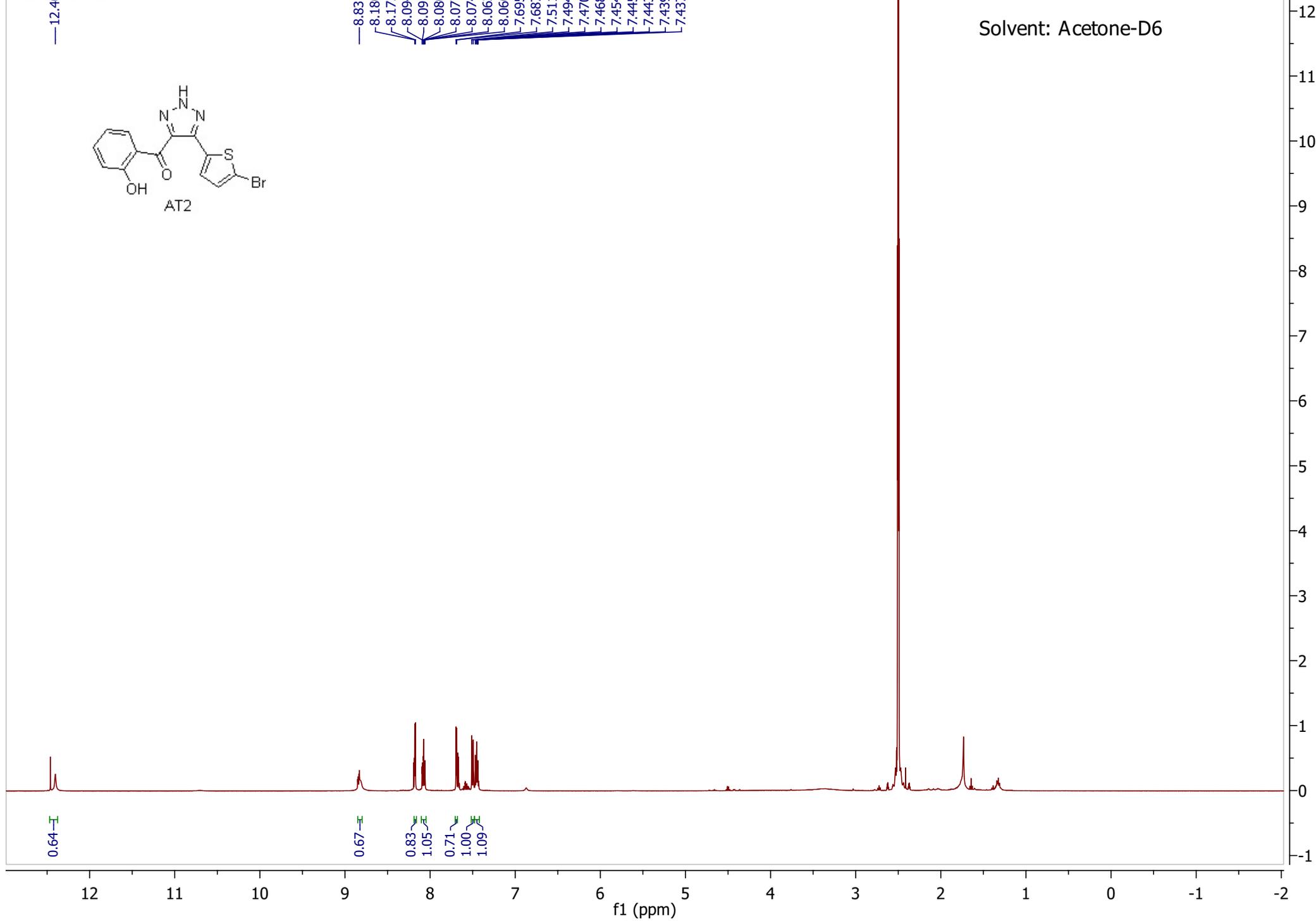
110.504

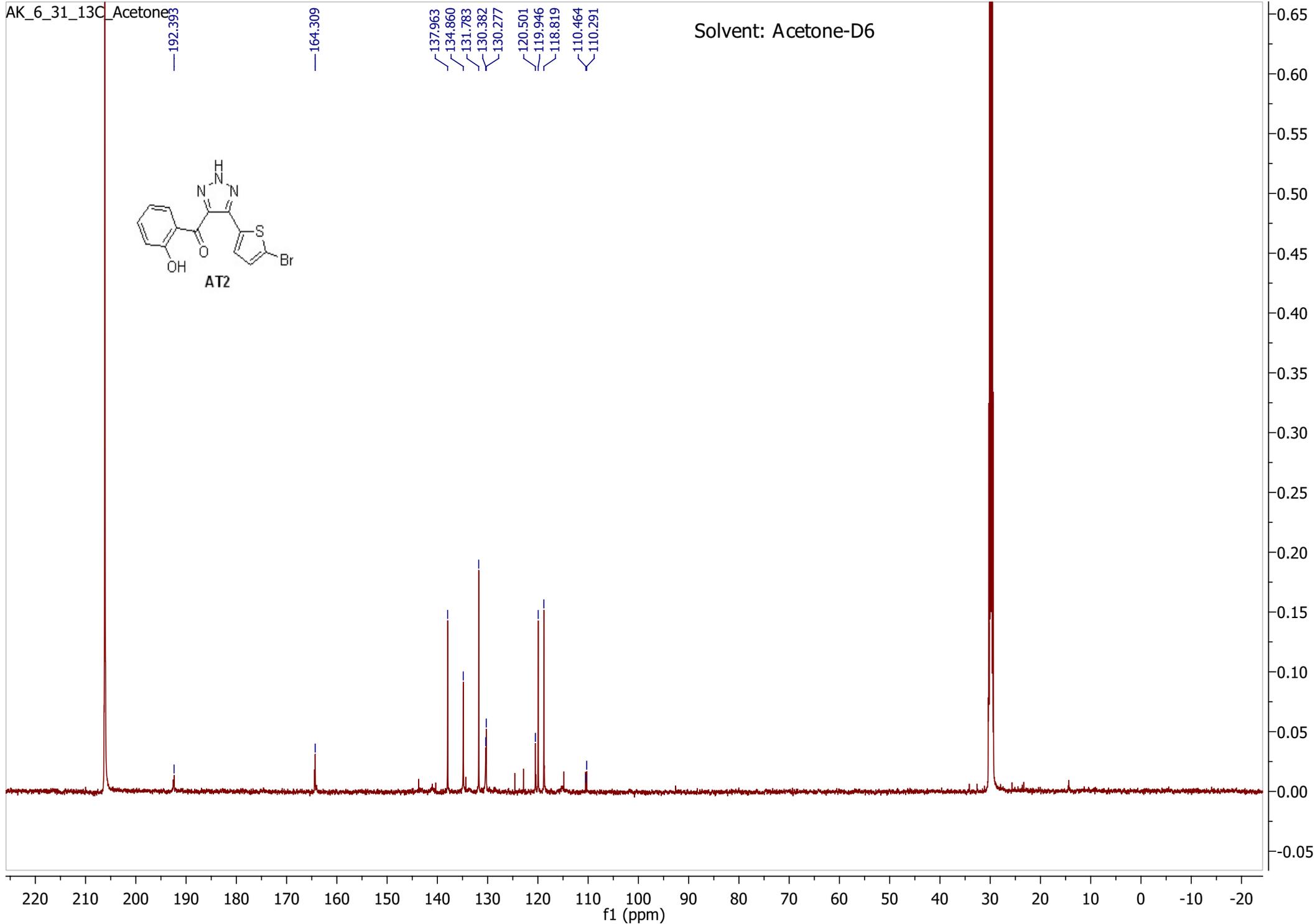
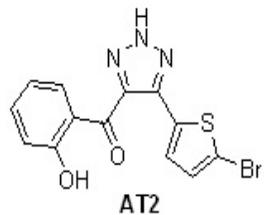
109.985

Solvent: Chloroform-D

Acetone



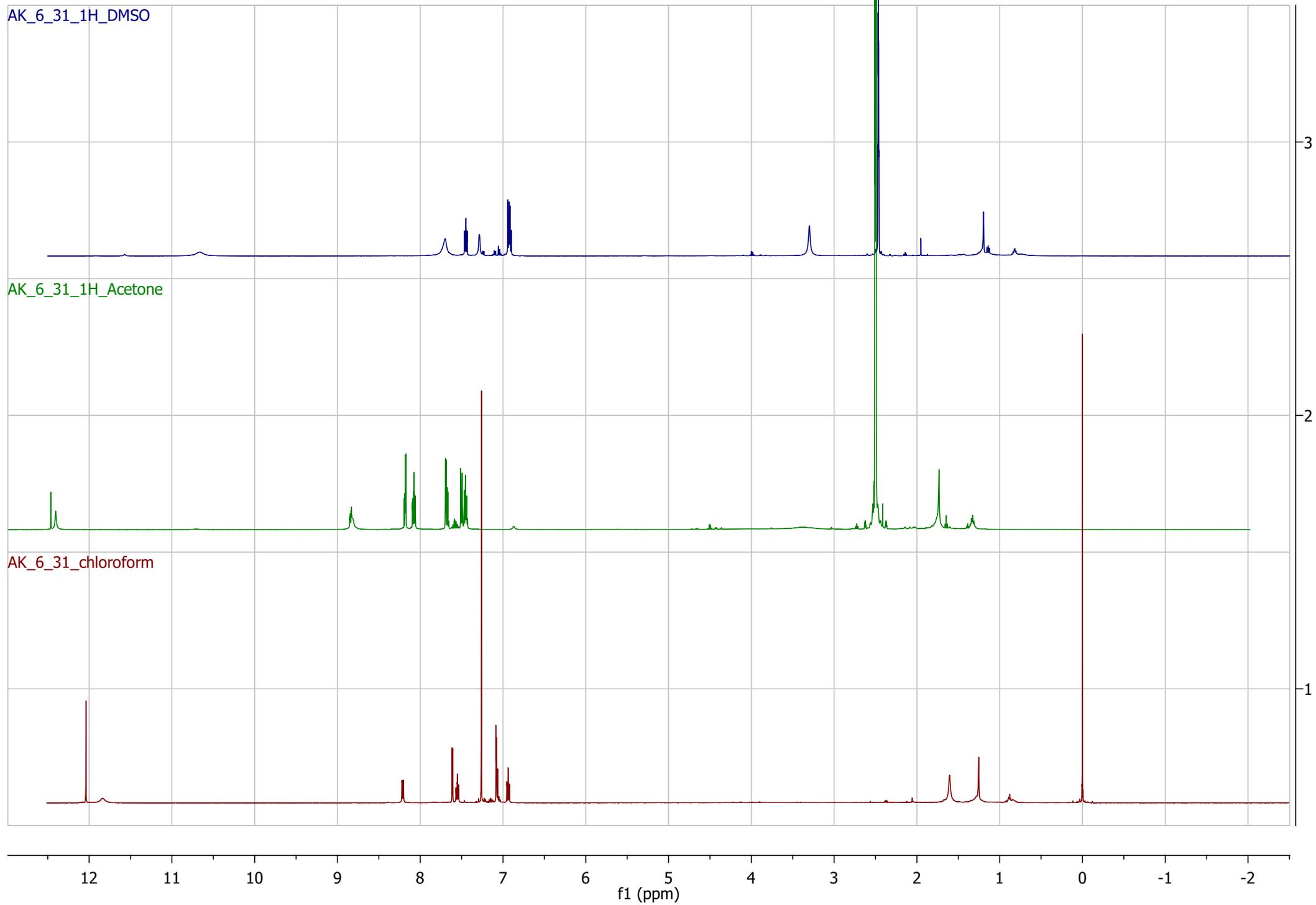




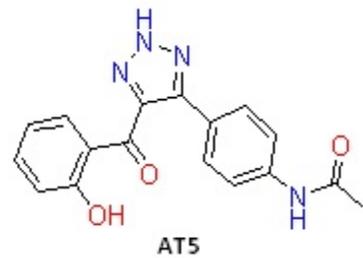
AK_6_31_1H_DMSO

AK_6_31_1H_Acetone

AK_6_31_chloroform



AK_5_103_Fr2_1H_DMSO



11.075

10.133

7.866

7.813

7.782

7.680

7.525

7.499

7.473

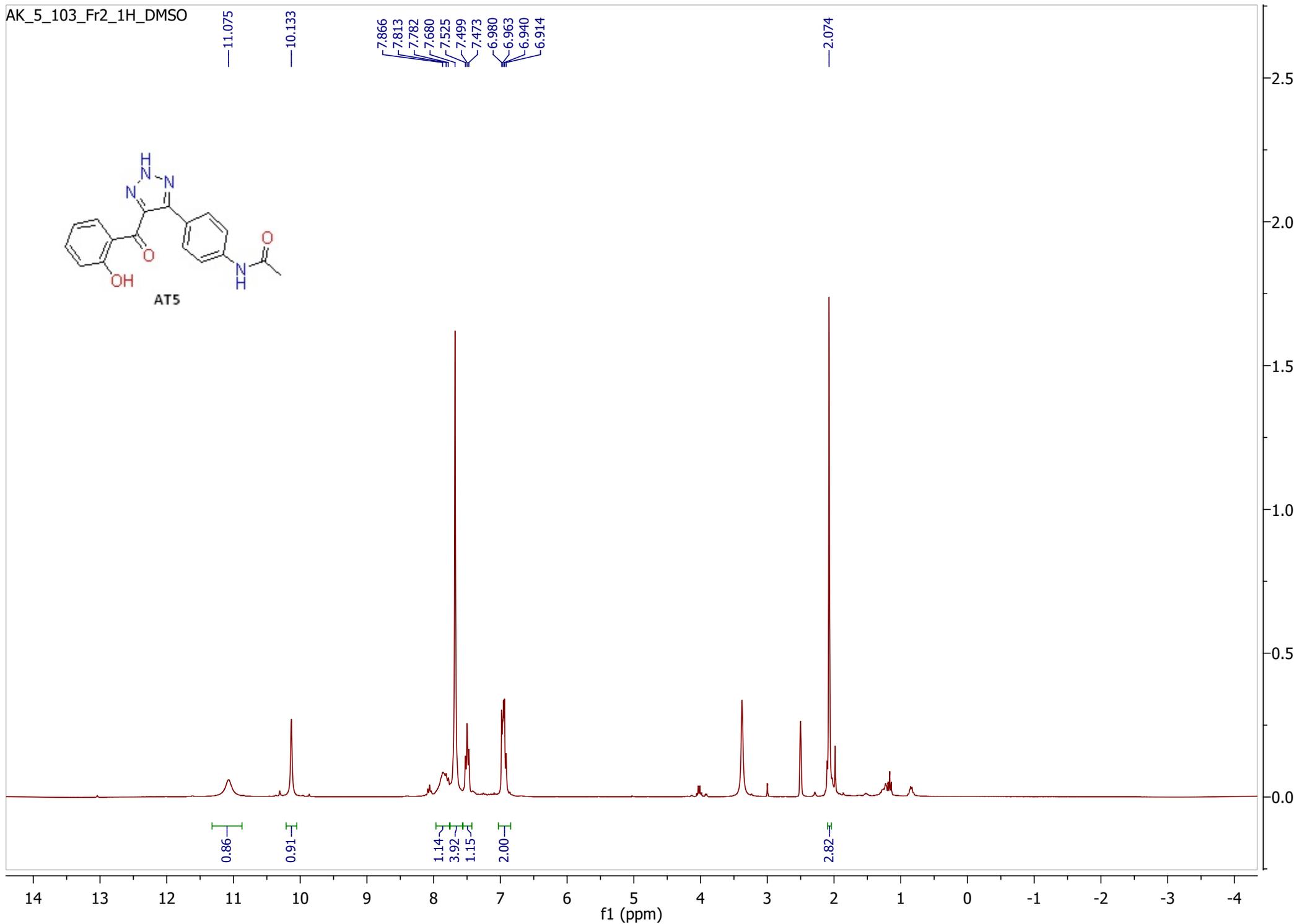
6.980

6.963

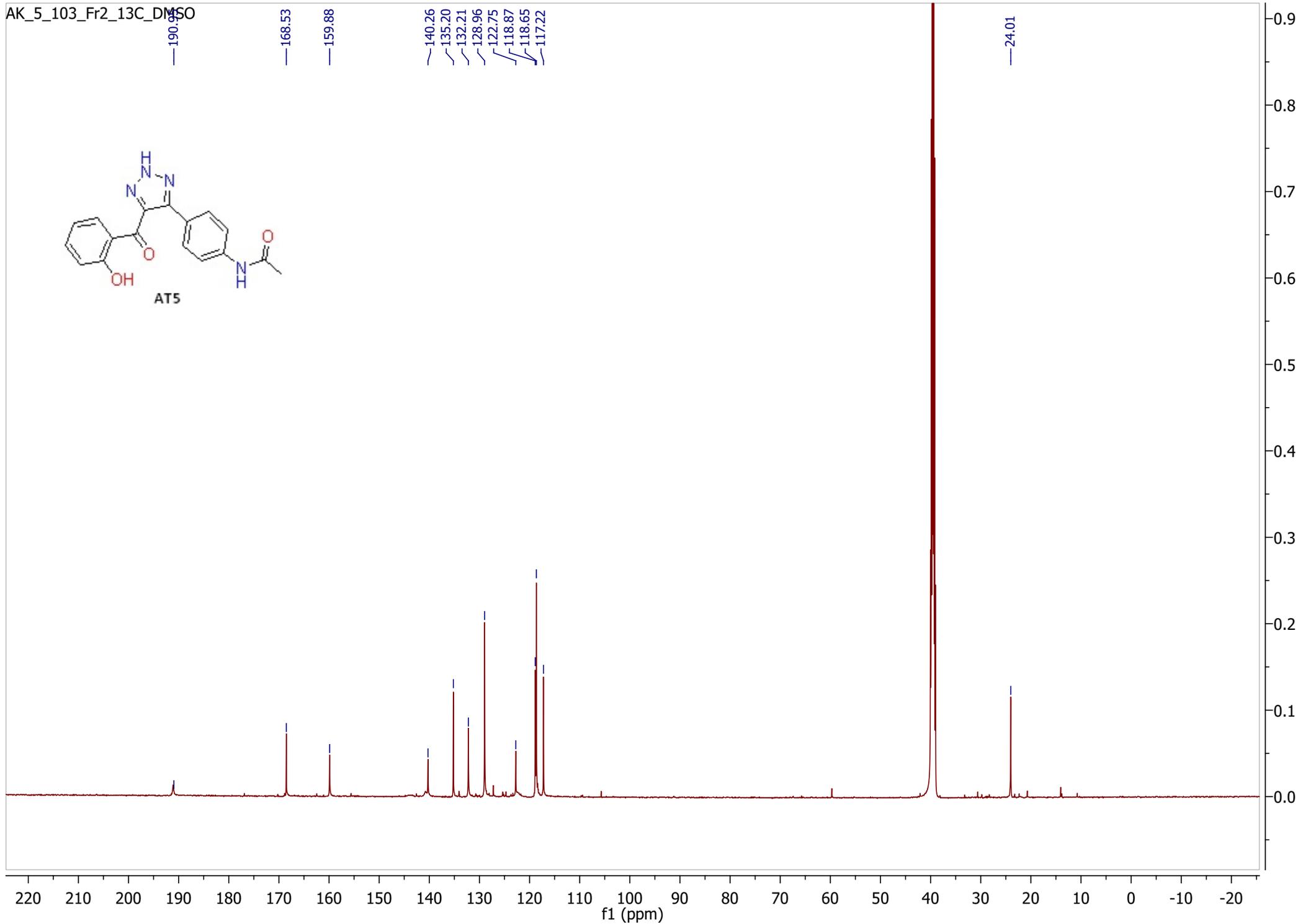
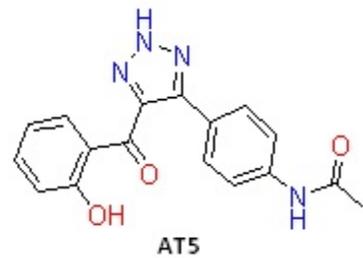
6.940

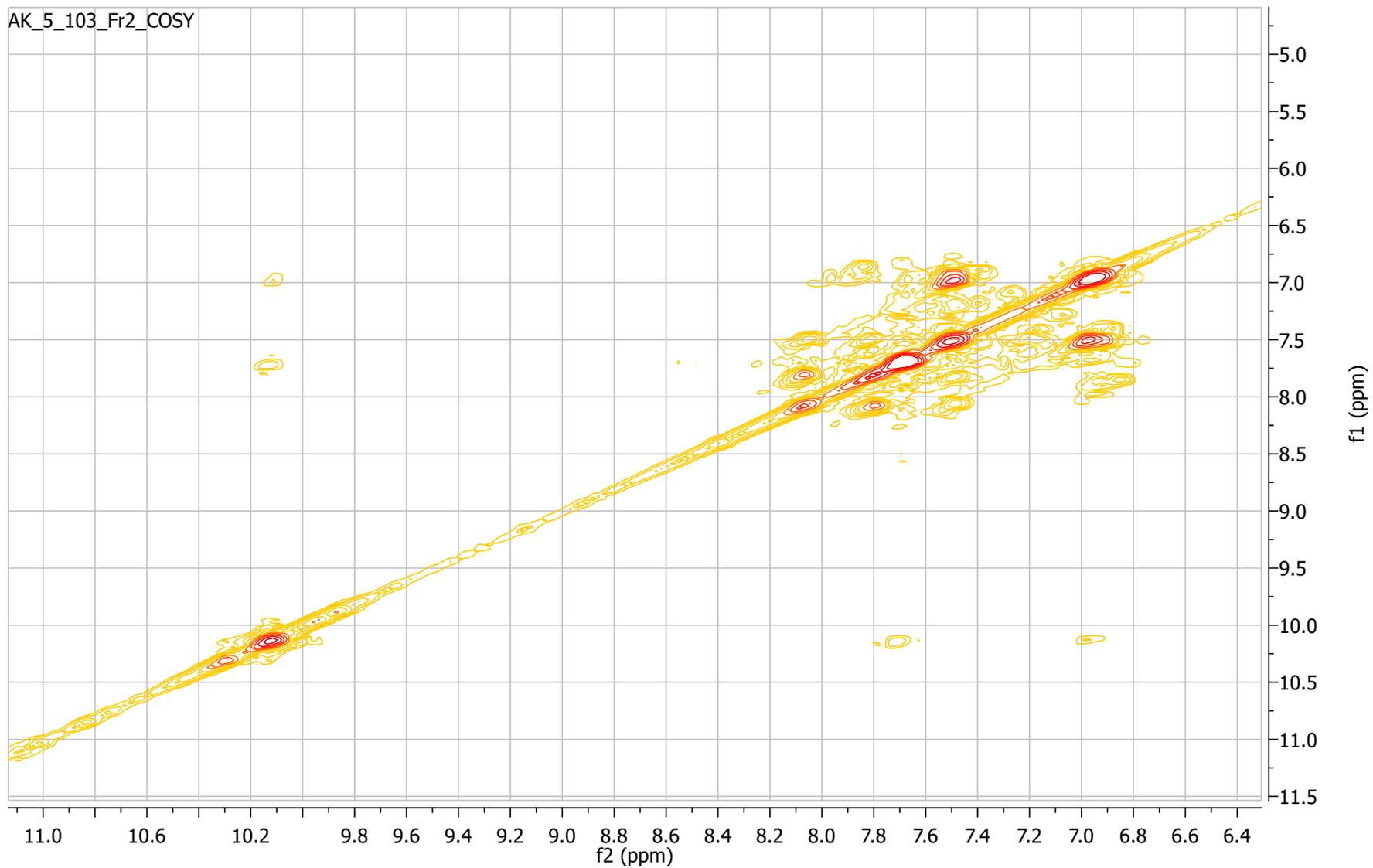
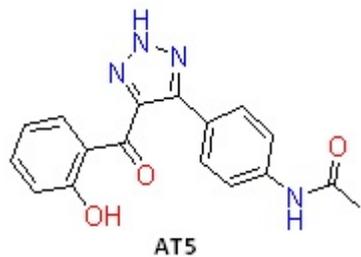
6.914

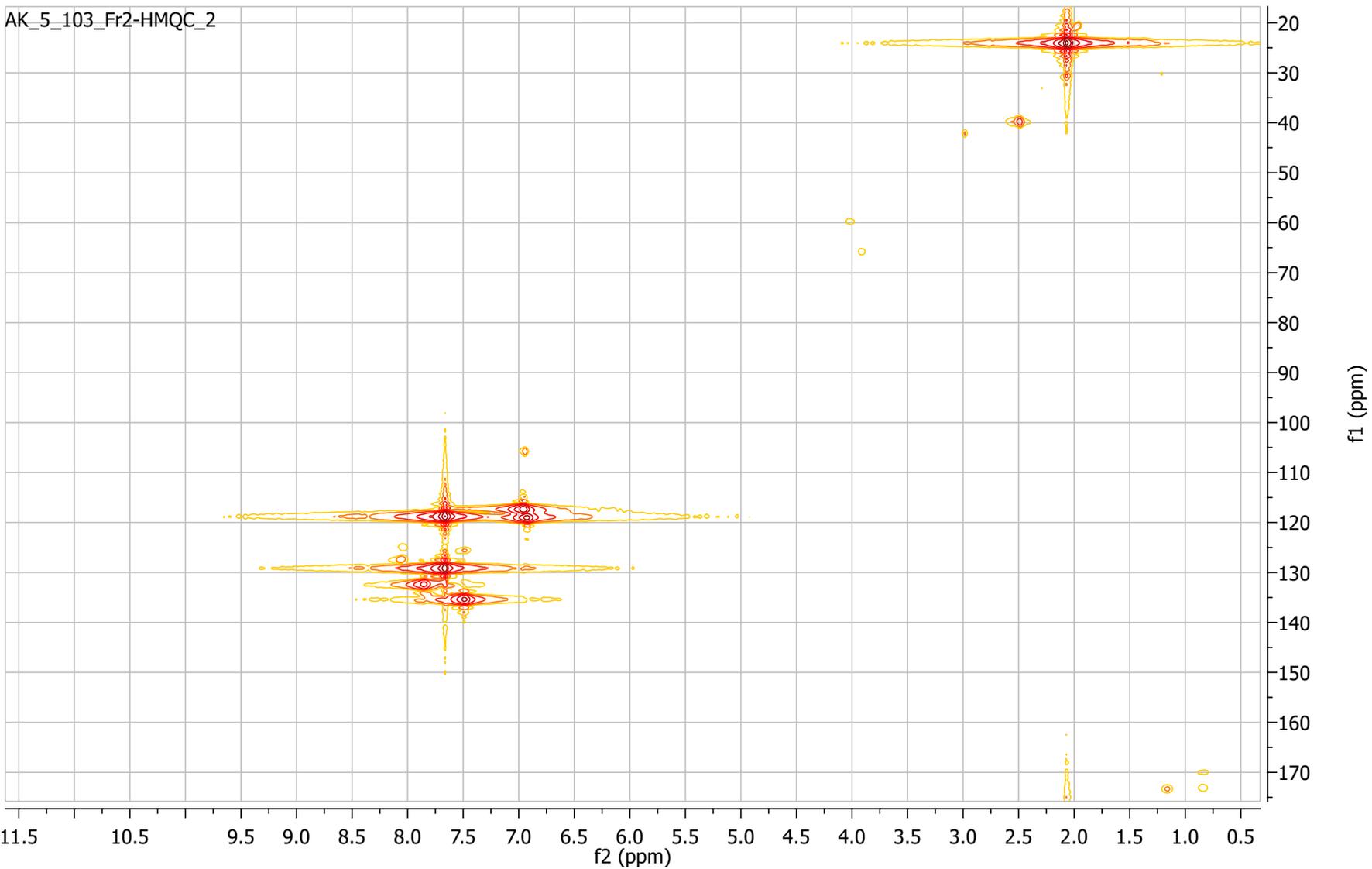
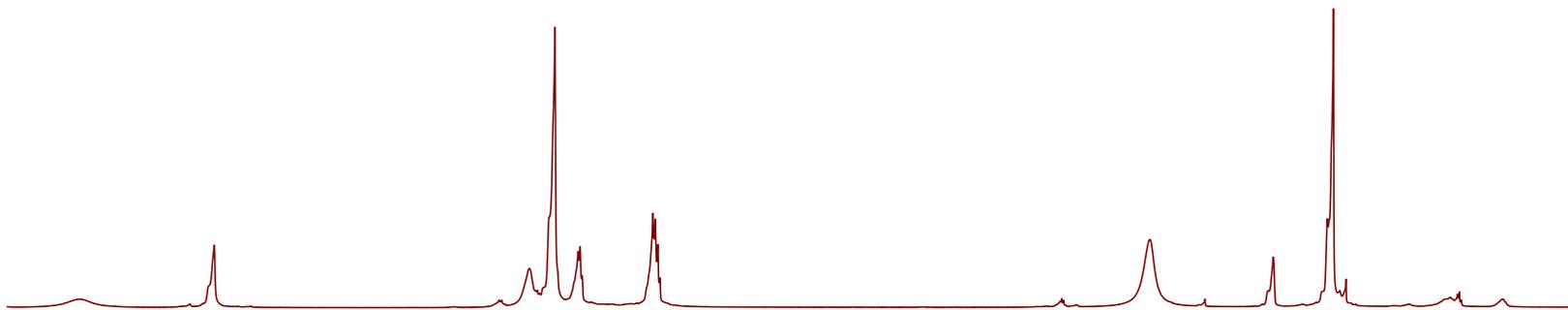
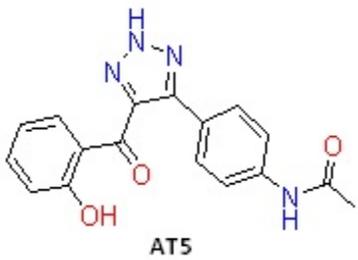
2.074



AK_5_103_Fr2_13C_DMSO







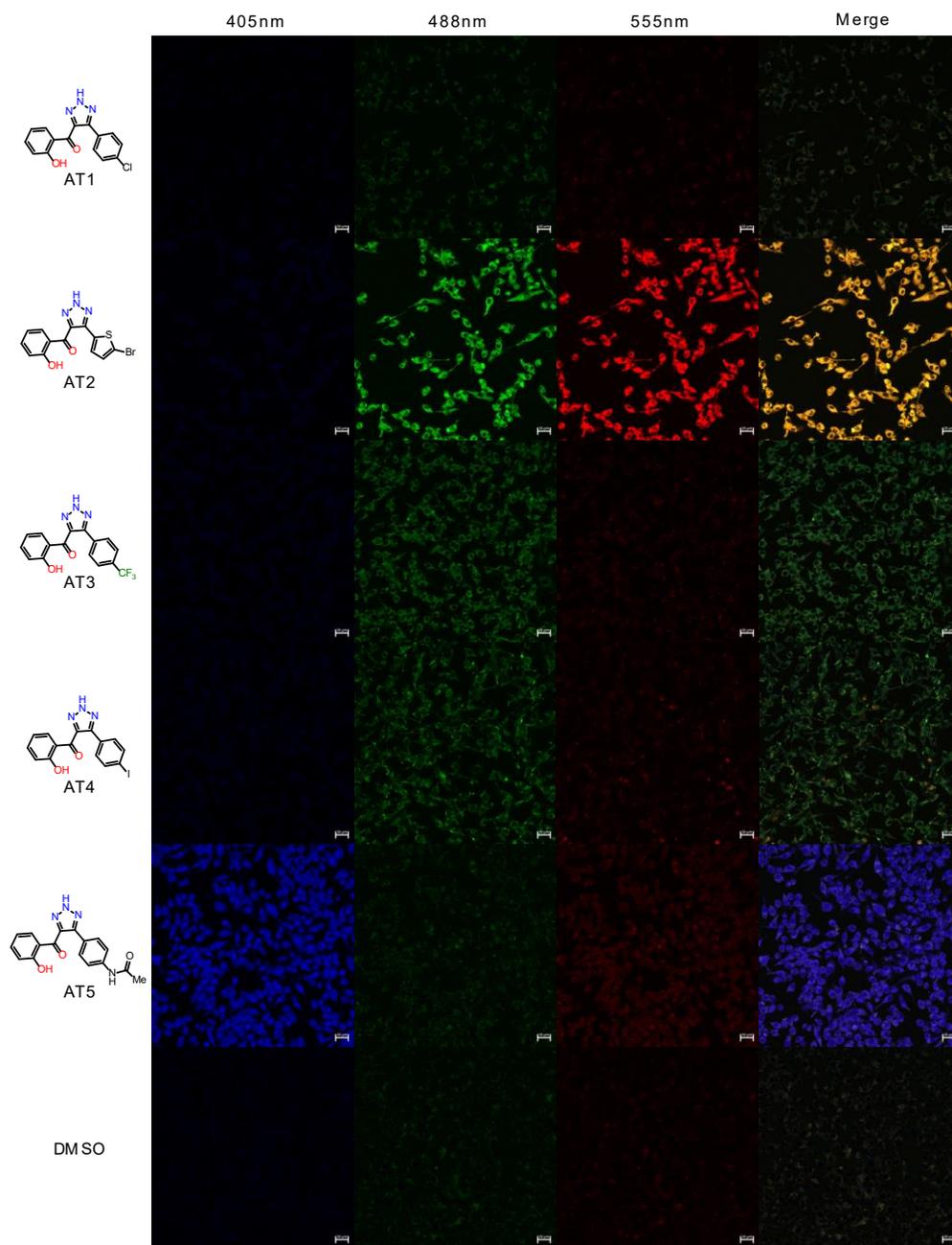


Figure S2: Full set of structures and images for figure 2. Brightness across all images was adjusted equally post analysis. Scale bars are 20µm.

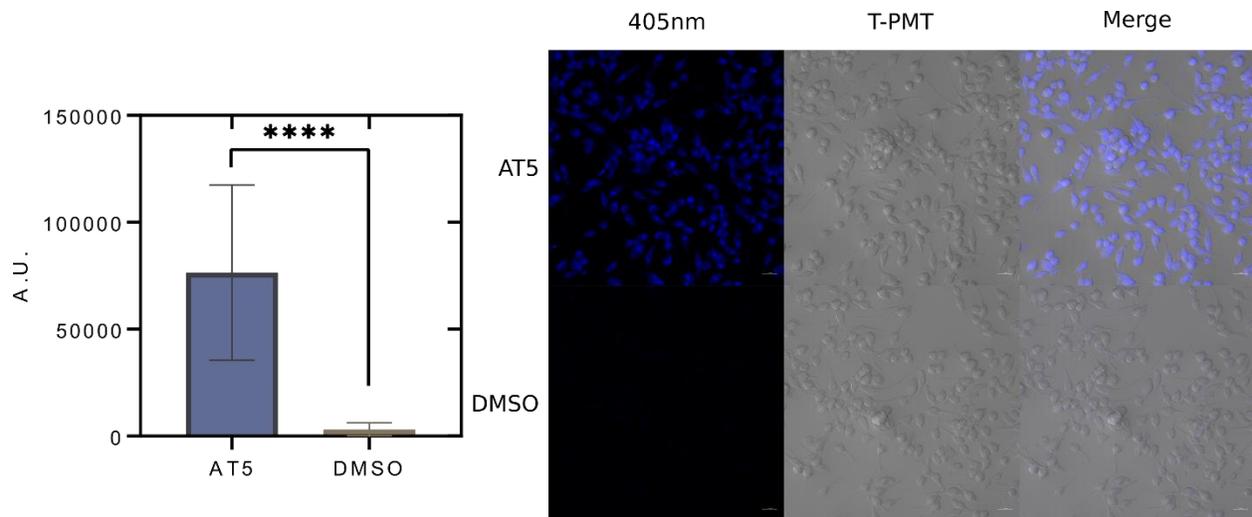


Figure S3: Fluorescent signal of **AT5** in fixed RAW 264.7 cells/unit area (pixel). Data is shown as the mean \pm SD, $n=300$ cells across three, independent replicates. **** $p<0.0001$ using a two-tailed t-test with a Welch's correction. Values where the fluorescence intensity of the cell was less than the background (negative values) were set to zero. Brightness across all images was adjusted equally post analysis.

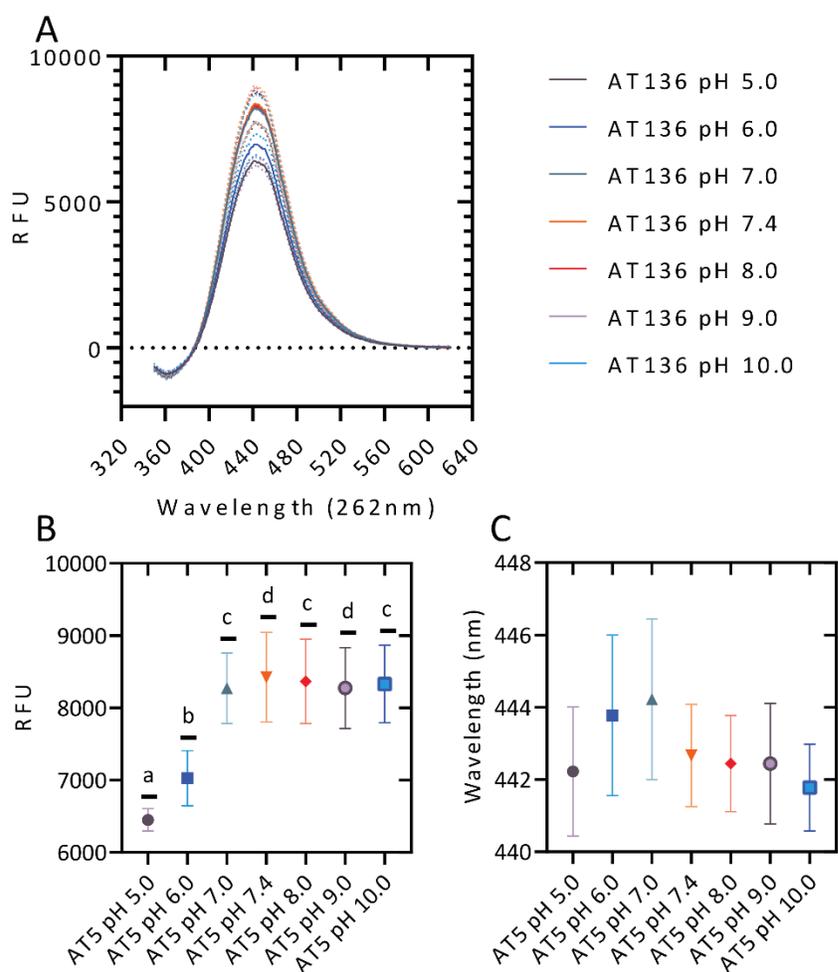


Figure S4: Effect of pH on emission of **AT5**. **A.** Emissions spectra of 100 μ M **AT5** in PBS at various pH. **B.** Peak emissions \pm SD of 100 μ M **AT5** in PBS at various pH. **C.** Peak emission wavelengths of 100 μ M **AT5** in PBS at various pH. Each value was measured using the CLARIOstar microplate reader in triplicate for three, independent replicates ($n=9$). Statistical analysis was done using a Brown-Forsythe and Welch ANOVA; a-b, $p < 0.05$; a-c/d, $p \leq 0.0001$; b-c, $p < 0.0010$; b-d, $p < 0.0014$; c-d, $p > 0.9999$.

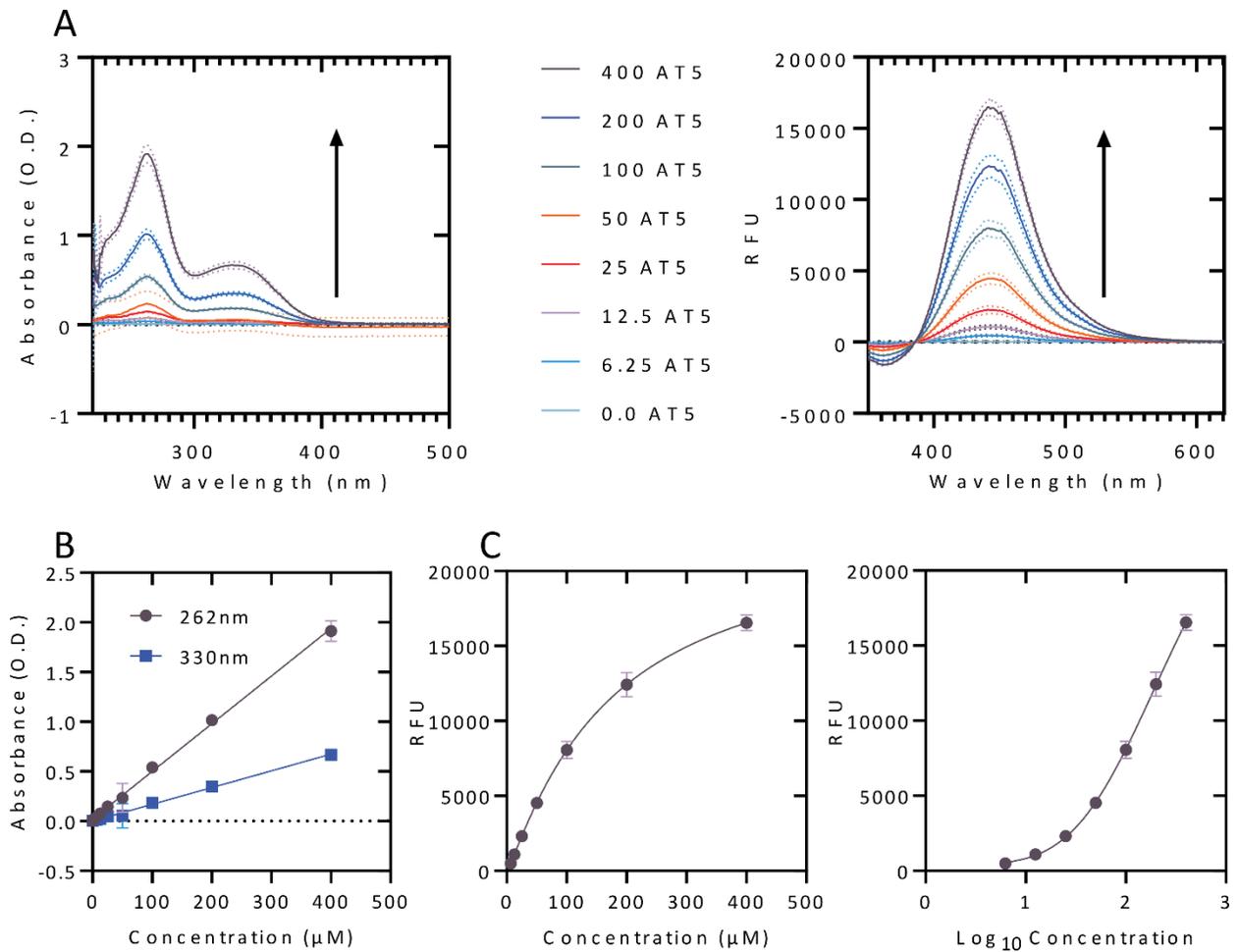


Figure S5: Absorbance and emission spectra for **AT5** at varying concentrations in PBS. **A.** Absorbance (left) and emissions (right) spectra of increasing concentrations (arrow) of **AT5** in μM . Absorbance at wavelengths above 500nm not shown. **B.** Absorbance at 262nm and 330nm for increasing concentrations of **AT5** including a linear regression analysis for each ($r^2_{262\text{nm}} = 0.988$ and $r^2_{330\text{nm}} = 0.958$). **C.** Peak emissions for increasing concentrations (left) and the log_{10} of each concentration (right) of **AT5**. Peak emissions for 0.0 μM could not be determined due to lack of signal. Each value was measured using the CLARIOstar microplate reader in triplicate for three, independent replicates ($n=9$).

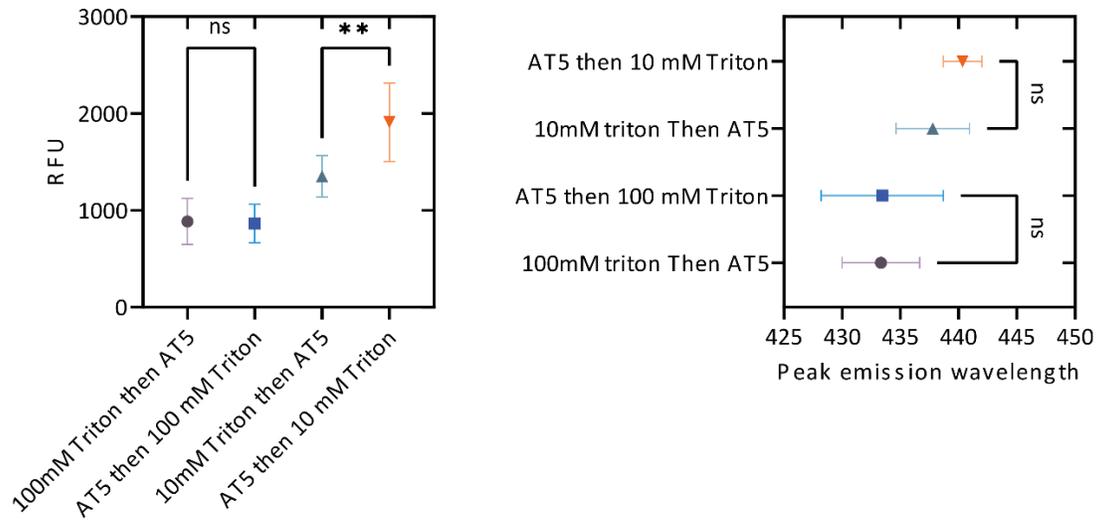


Figure S6: Order of mixing of **AT5** in Triton X-100. **AT5** was added to PBS either 30min before or 30min after the addition of Triton X-100. The solutions were then mixed and pipetted in triplicate into UV 96-well plates. Peak fluorescent intensity and peak emission wavelength for each is represented as the mean \pm SD. Statistical analysis performed is a Brown-Forsythe and Welch ANOVA, $n=9$ wells across three, independent replicates. ** $p<0.01$.