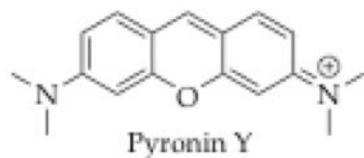


quantitative NMR

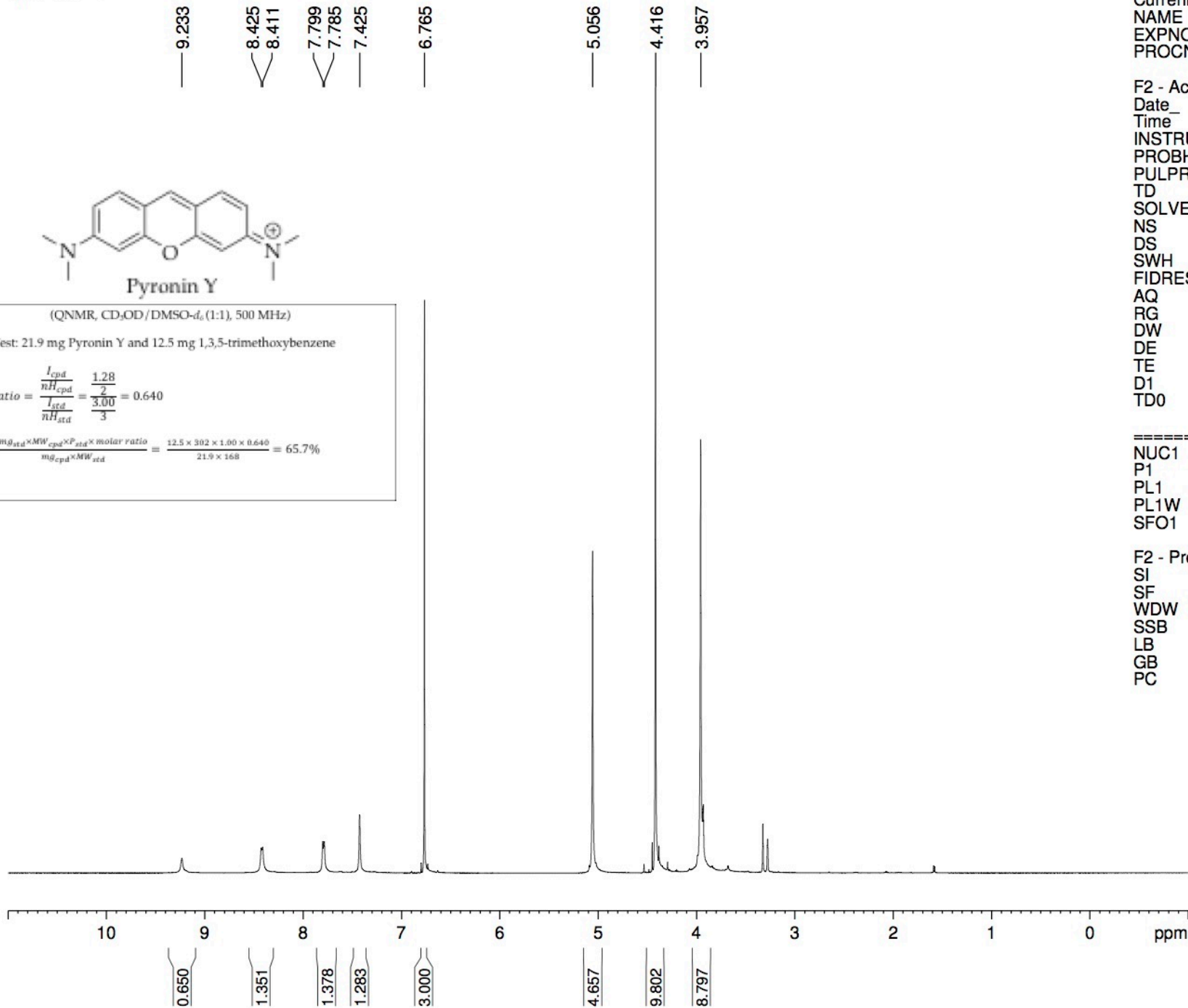


(QNMR, CD<sub>3</sub>OD/DMSO-*d*<sub>6</sub> (1:1), 500 MHz)

Purity Test: 21.9 mg Pyronin Y and 12.5 mg 1,3,5-trimethoxybenzene

$$\text{molar ratio} = \frac{\frac{I_{cpd}}{nH_{cpd}}}{\frac{I_{std}}{nH_{std}}} = \frac{\frac{1.28}{2}}{\frac{3.00}{3}} = 0.640$$

$$\text{wt\%} = \frac{m_{std} \times MW_{cpd} \times P_{std} \times \text{molar ratio}}{m_{cpd} \times MW_{std}} = \frac{12.5 \times 302 \times 1.00 \times 0.640}{21.9 \times 168} = 65.7\%$$



Current Data Parameters  
 NAME KAS-2019-256  
 EXPNO 1  
 PROCNO 999

F2 - Acquisition Parameters  
 Date\_ 20191206  
 Time 16.33  
 INSTRUM av600  
 PROBHD 5 mm BB5  
 PULPROG zg30  
 TD 65536  
 SOLVENT MeOD  
 NS 8  
 DS 0  
 SWH 12376.237 Hz  
 FIDRES 0.188846 Hz  
 AQ 2.6476543 sec  
 RG 114  
 DW 40.400 usec  
 DE 6.50 usec  
 TE 295.3 K  
 D1 30.0000000 sec  
 TD0 1

===== CHANNEL f1 =====  
 NUC1 1H  
 P1 16.50 usec  
 PL1 -1.00 dB  
 PL1W 31.62277603 W  
 SFO1 600.1336008 MHz

F2 - Processing parameters  
 SI 65536  
 SF 600.1300273 MHz  
 WDW EM  
 SSB 0  
 LB 0.30 Hz  
 GB 0  
 PC 1.00