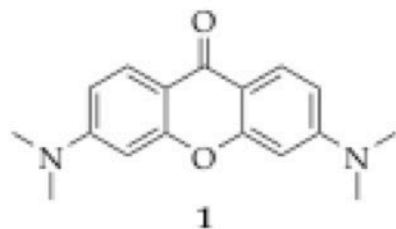


quantitative NMR



7.998
7.983

6.629
6.614
6.390

6.010

3.690

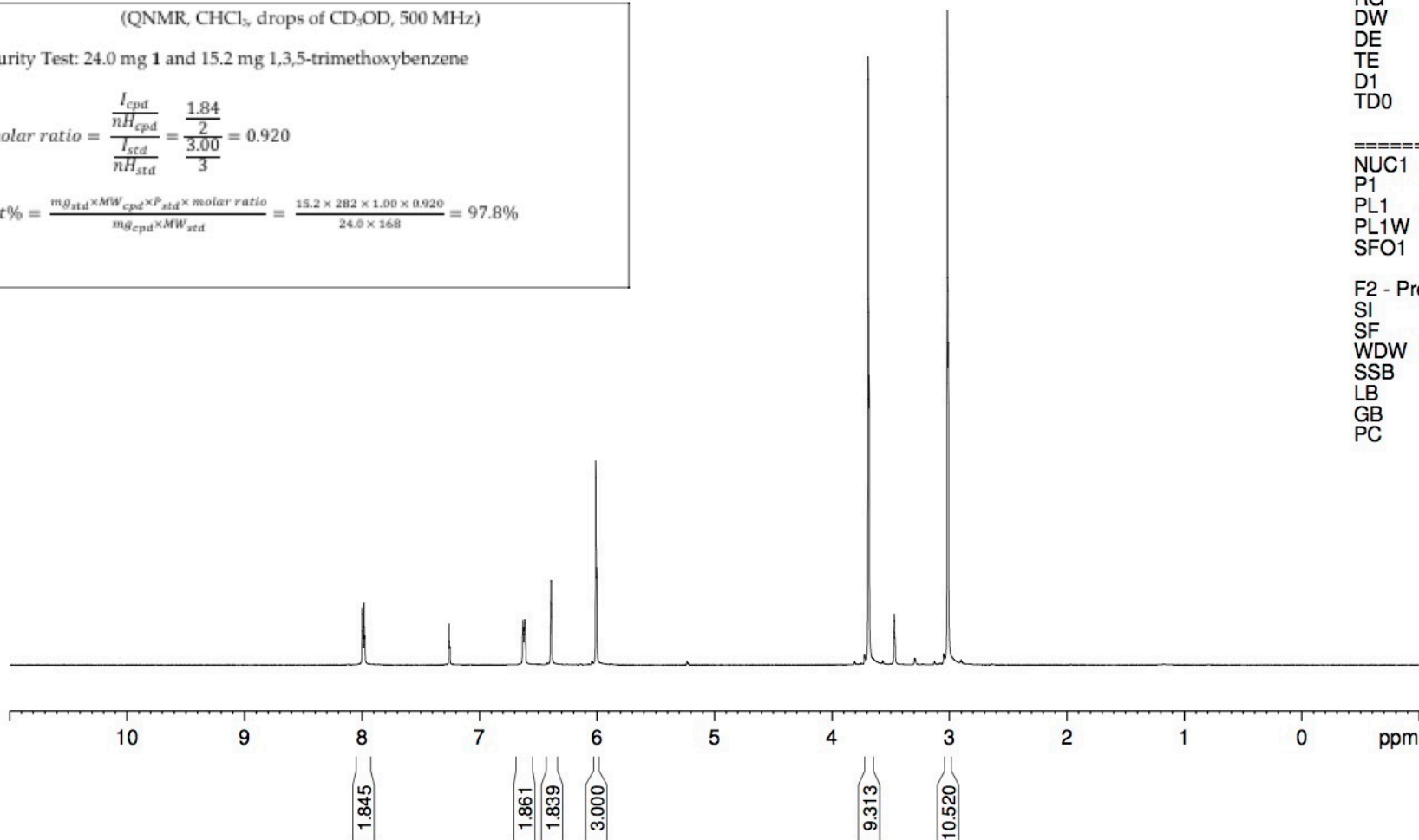
3.016

(QNMR, CHCl₃, drops of CD₃OD, 500 MHz)

Purity Test: 24.0 mg 1 and 15.2 mg 1,3,5-trimethoxybenzene

$$\text{molar ratio} = \frac{\frac{I_{\text{cpd}}}{nH_{\text{cpd}}}}{\frac{I_{\text{std}}}{nH_{\text{std}}}} = \frac{\frac{1.84}{2}}{\frac{3.00}{3}} = 0.920$$

$$\text{wt}\% = \frac{mg_{\text{std}} \times MW_{\text{cpd}} \times P_{\text{std}} \times \text{molar ratio}}{mg_{\text{cpd}} \times MW_{\text{std}}} = \frac{15.2 \times 282 \times 1.00 \times 0.920}{24.0 \times 168} = 97.8\%$$



Current Data Parameters
NAME KAS-2020-010
EXPNO 1
PROCNO 999

F2 - Acquisition Parameters
Date_ 20200109
Time 16.29
INSTRUM av600
PROBHD 5 mm BB5
PULPROG zg30
TD 65536
SOLVENT CDCl₃
NS 8
DS 0
SWH 12376.237 Hz
FIDRES 0.188846 Hz
AQ 2.6476543 sec
RG 181
DW 40.400 usec
DE 6.50 usec
TE 295.1 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 600.1324011 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00