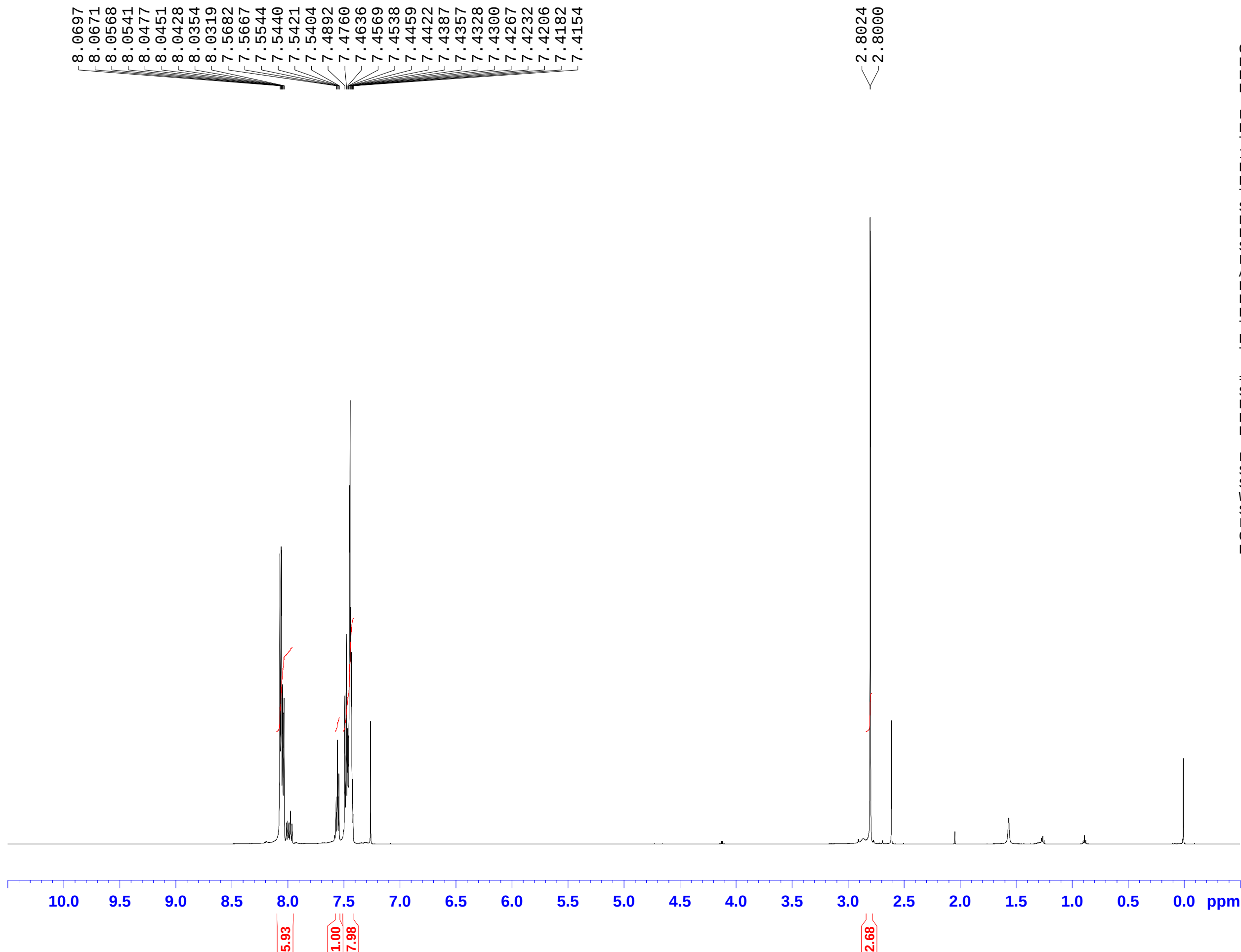


Current Data Parameters
NAME OS-B
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20170915
Time 8.41
INSTRUM spect
PROBHD 5 mm CPPBBO BB
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 16
DS 2
SWH 12019.230 Hz
FIDRES 0.183399 Hz
AQ 2.7262976 sec
RG 17.5
DW 41.600 use
DE 10.00 use
TE 300.0 K
D1 1.00000000 sec
TD0 1

===== CHANNEL f1 =====
SF01 600.1337060 MHz
NUC1 1H
P1 12.00 use
PLW1 23.00000000 W

F2 - Processing parameters
SI 65536
SF 600.1300152 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00





Current Data Parameters
 NAME OS-B-Q
 EXPNO 10
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20170915
 Time 8.46
 INSTRUM spect
 PROBHD 5 mm CPPBBO BB
 PULPROG zg30
 TD 65536
 SOLVENT CDC13
 NS 16
 DS 2
 SWH 12019.230 Hz
 FIDRES 0.183399 Hz
 AQ 2.7262976 sec
 RG 15.79
 DW 41.600 use
 DE 10.00 use
 TE 300.0 K
 D1 1.00000000 sec
 TD0 1

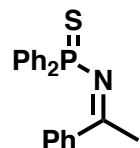
===== CHANNEL f1 =====
 SFO1 600.1337060 MHz
 NUC1 1H
 P1 12.00 use
 PLW1 23.00000000 W

F2 - Processing parameters
 SI 65536
 SF 600.1300149 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

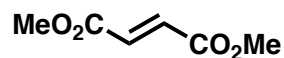
8.0560
8.0535
8.0440
8.0420
8.0339
8.0314
8.0214
8.0182
7.5525
7.5508
7.5402
7.5298
7.5279
7.4752
7.4622
7.4498
7.4318
7.4302
7.4285
7.4250
7.4190
7.4166
7.4096
7.4069
7.2599
6.8578

3.7988

2.7888
2.7864



4 21.5 mg
 MW 335.40 (0.0641 mmol)



dimethyl fumarate
 MW 144.13
 ($P_{\text{std}} > 98.0\%$) 21.2 mg
 (0.147 mmol)

$$\text{Molar Ratio}_{\text{NMR}} = \frac{6.00 \div 6}{2.62 \div 6} = 2.29$$

$$P_{\text{pdt}} = \text{Molar Ratio}_{\text{NMR}} \times \frac{0.0641 \text{ mmol}_{\text{pdt}}}{0.147 \text{ mmol}_{\text{std}}} \times >98.0\% > 98\%$$

