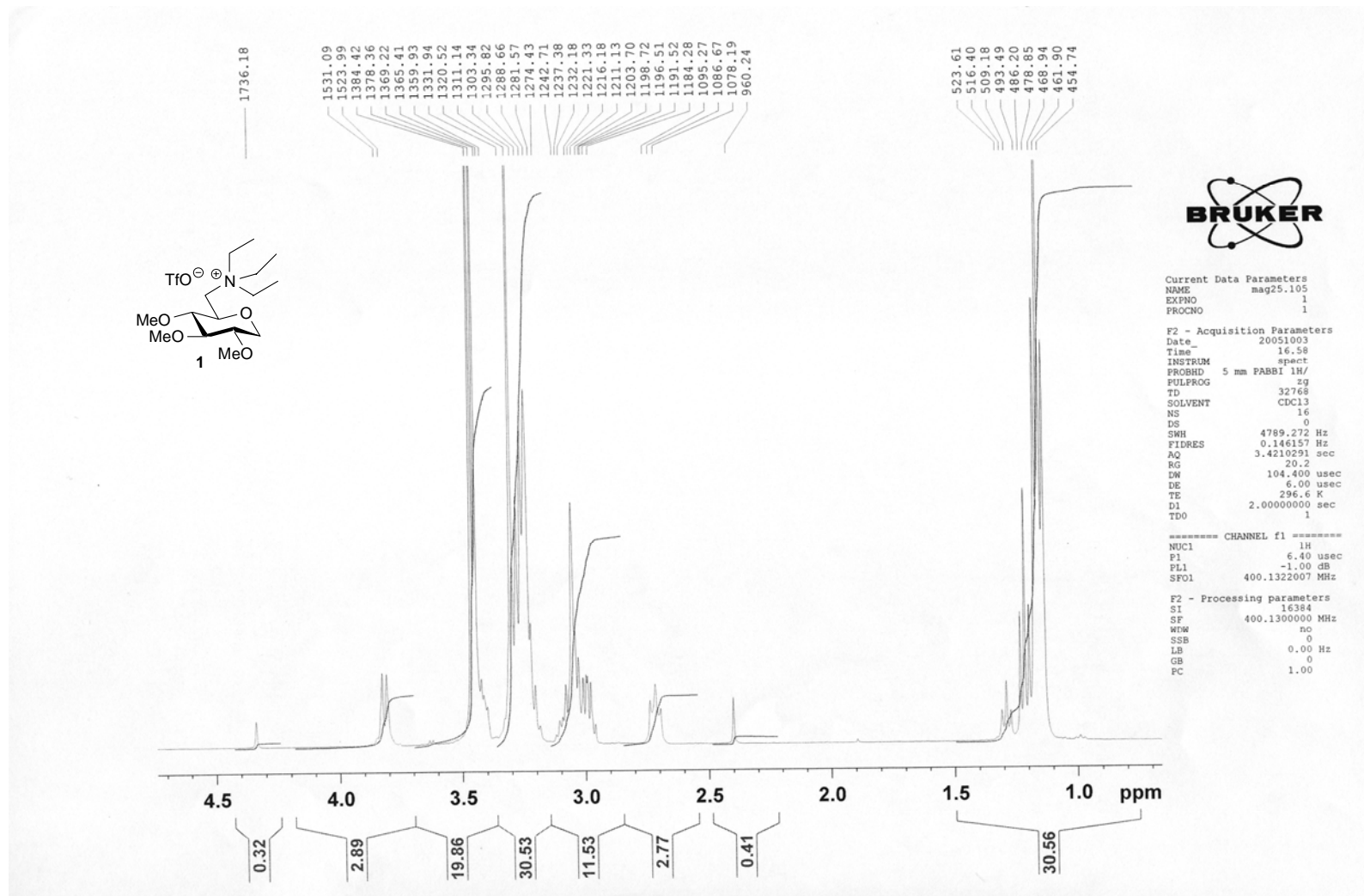


## Supplementary information

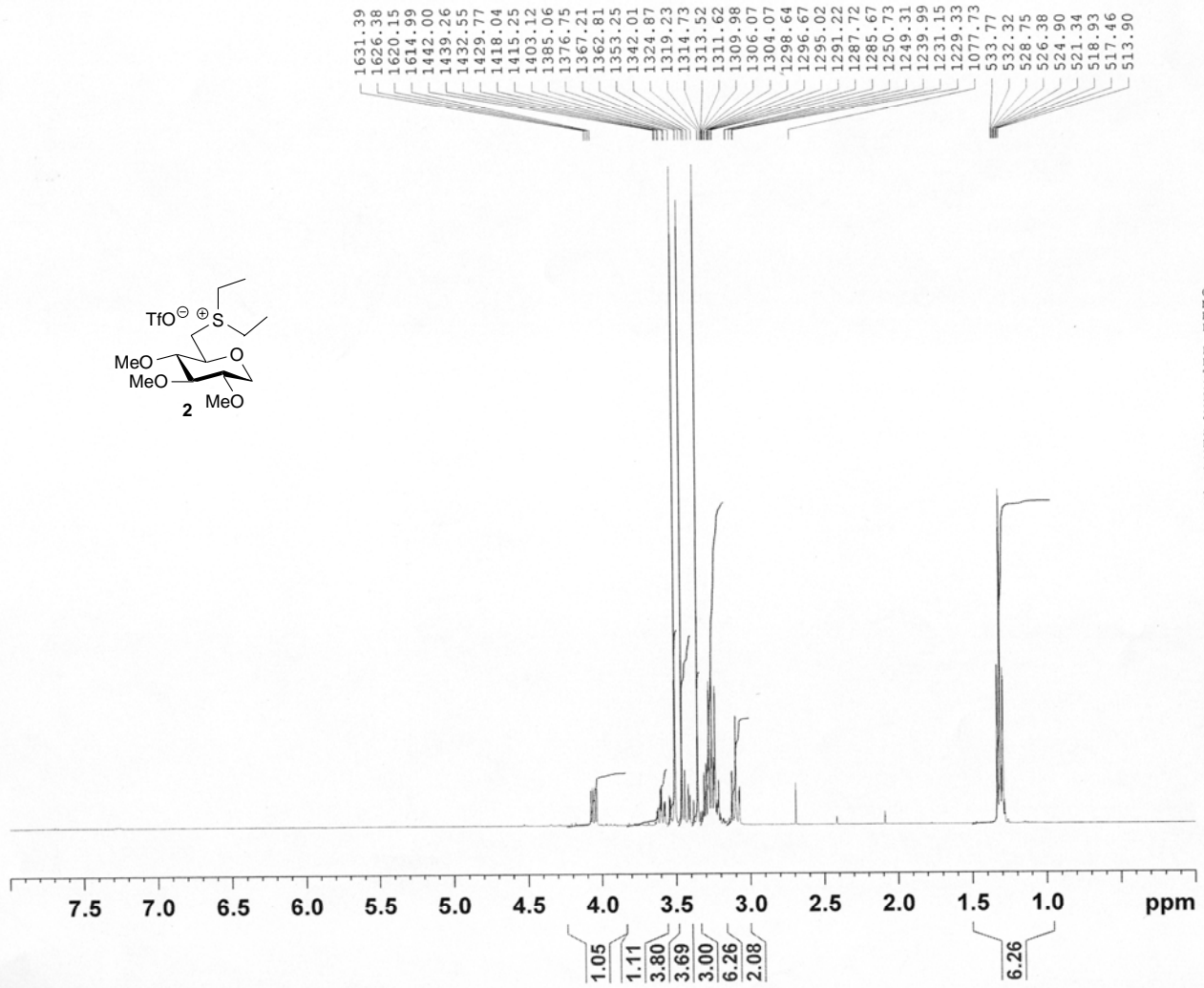
### Glucose-derived ionic liquids: exploring low-cost sources for novel chiral solvents

Laura Poletti,<sup>\*a</sup> Cinzia Chiappe,<sup>b</sup> Luigi Lay,<sup>a</sup> Daniela Pieraccini,<sup>b</sup> Laura Polito,<sup>a</sup> Giovanni Russo<sup>a</sup>

<sup>1</sup>H NMR spectrum of IL 1



<sup>1</sup>H NMR spectrum of IL 2



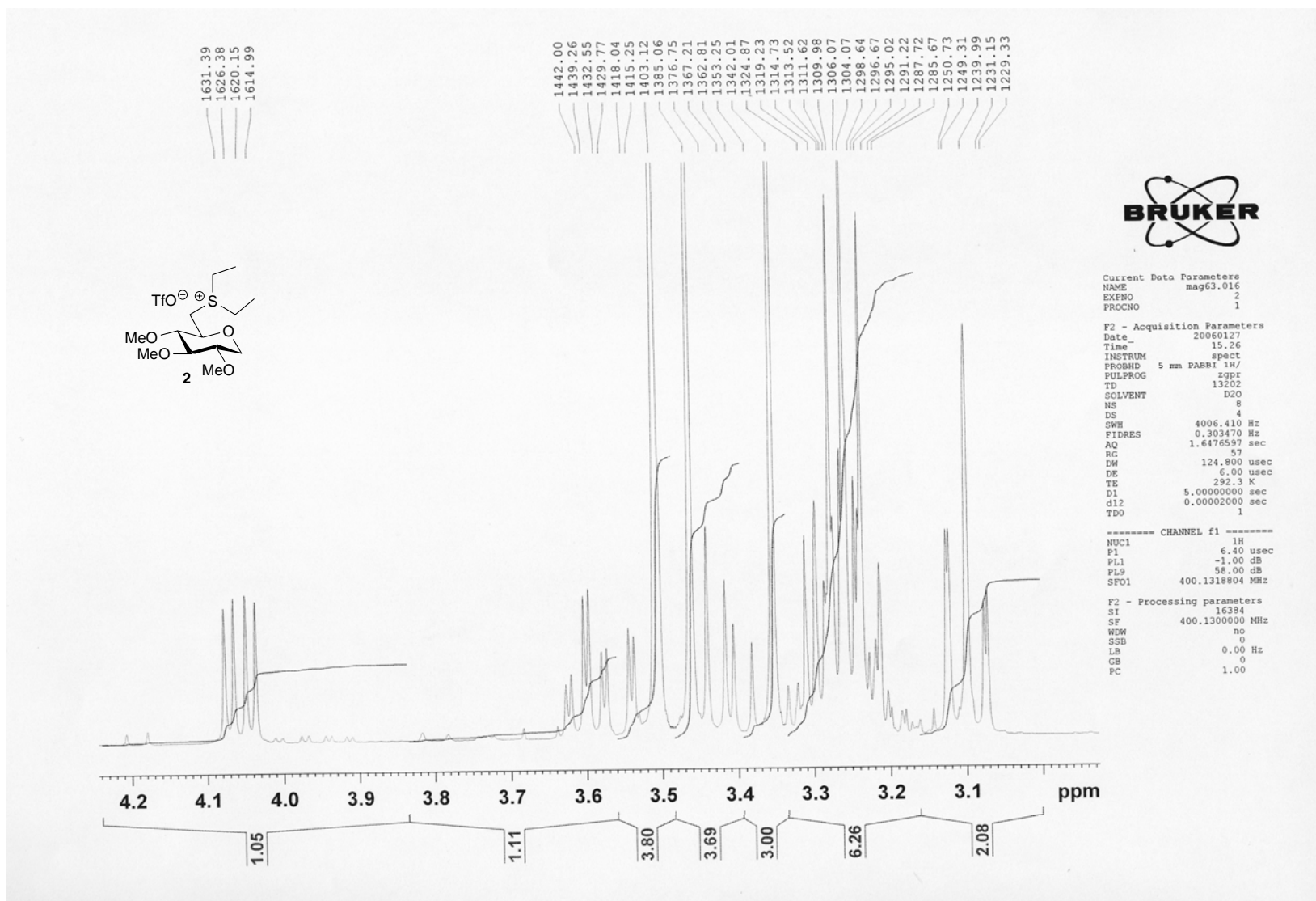
Current Data Parameters  
 NAME mag63.016  
 EXPNO 2  
 PROCNO 1

F2 - Acquisition Parameters  
 Date\_ 20060127  
 Time\_ 15.26  
 INSTRUM spect  
 PROBHD 5 mm PABBI 1H/  
 PULPROG zgpr  
 TD 13202  
 SOLVENT D2O  
 NS 8  
 DS 4  
 SWH 4006.410 Hz  
 FIDRES 0.303470 Hz  
 AQ 1.6476597 sec  
 RG 57  
 DW 124.800 usec  
 DE 6.00 usec  
 TE 292.3 K  
 D1 5.00000000 sec  
 d12 0.00002000 sec  
 TDO 1

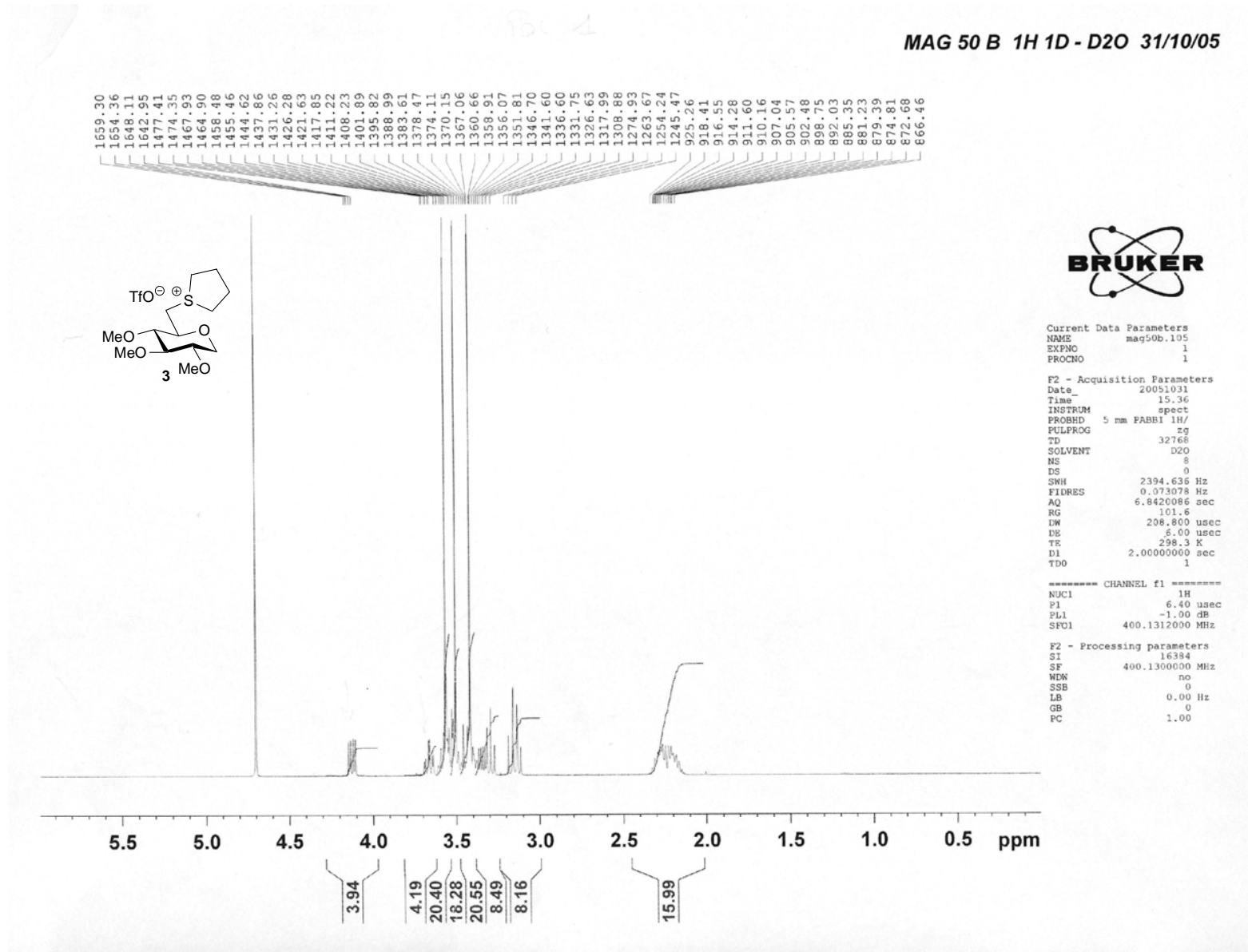
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 PL1 -1.00 dB  
 PL3 58.00 dB  
 SFO1 400.1318604 MHz

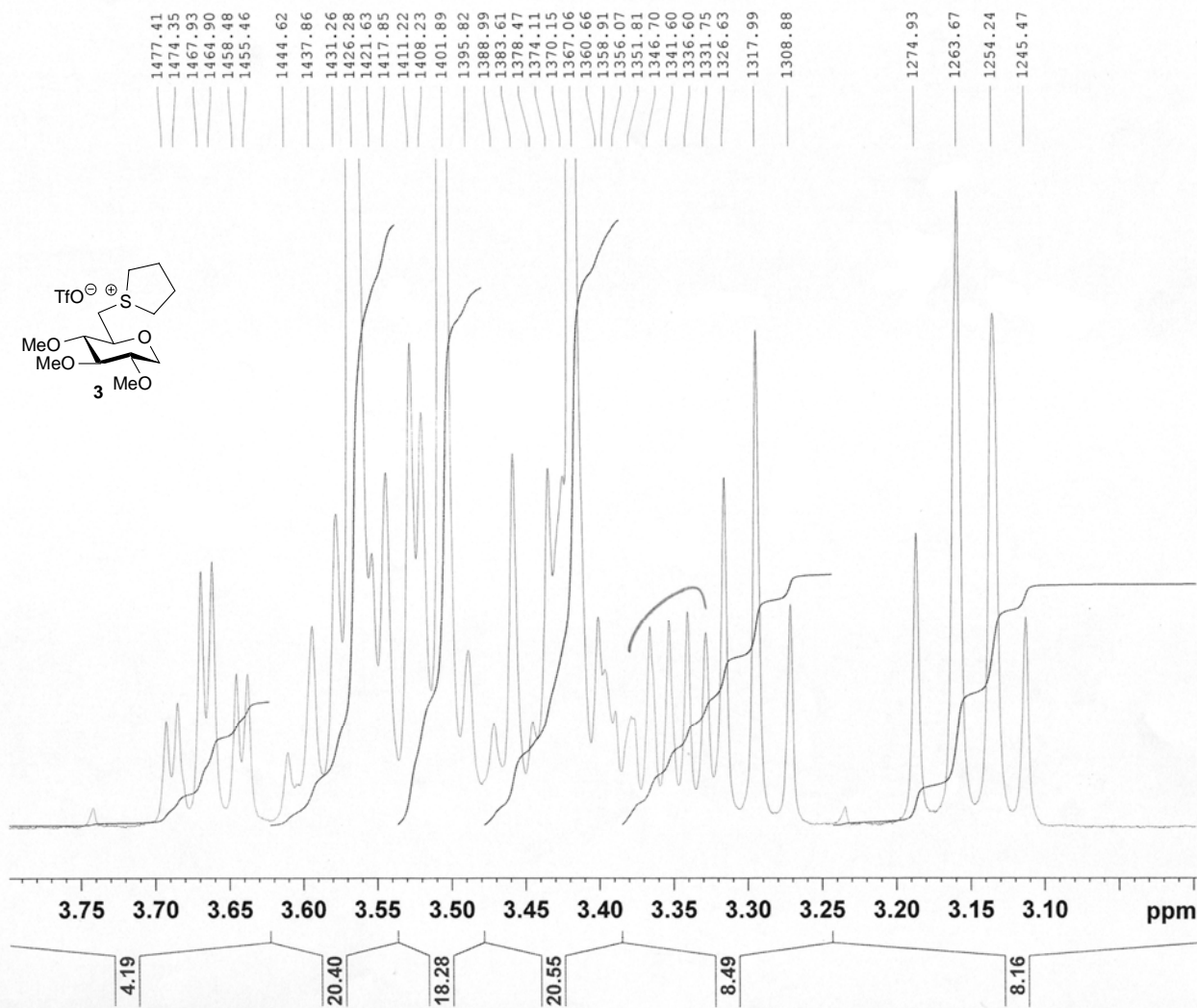
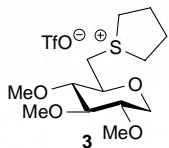
F2 - Processing parameters  
 SI 16384  
 SF 400.1300000 MHz  
 WDW no  
 SSB 0  
 LB 0.00 Hz  
 GB 0  
 FC 1.00

<sup>1</sup>H NMR spectrum of IL 2



<sup>1</sup>H NMR spectrum of IL 3





Current Data Parameters  
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 EXPNO 1  
 PROCNO 1

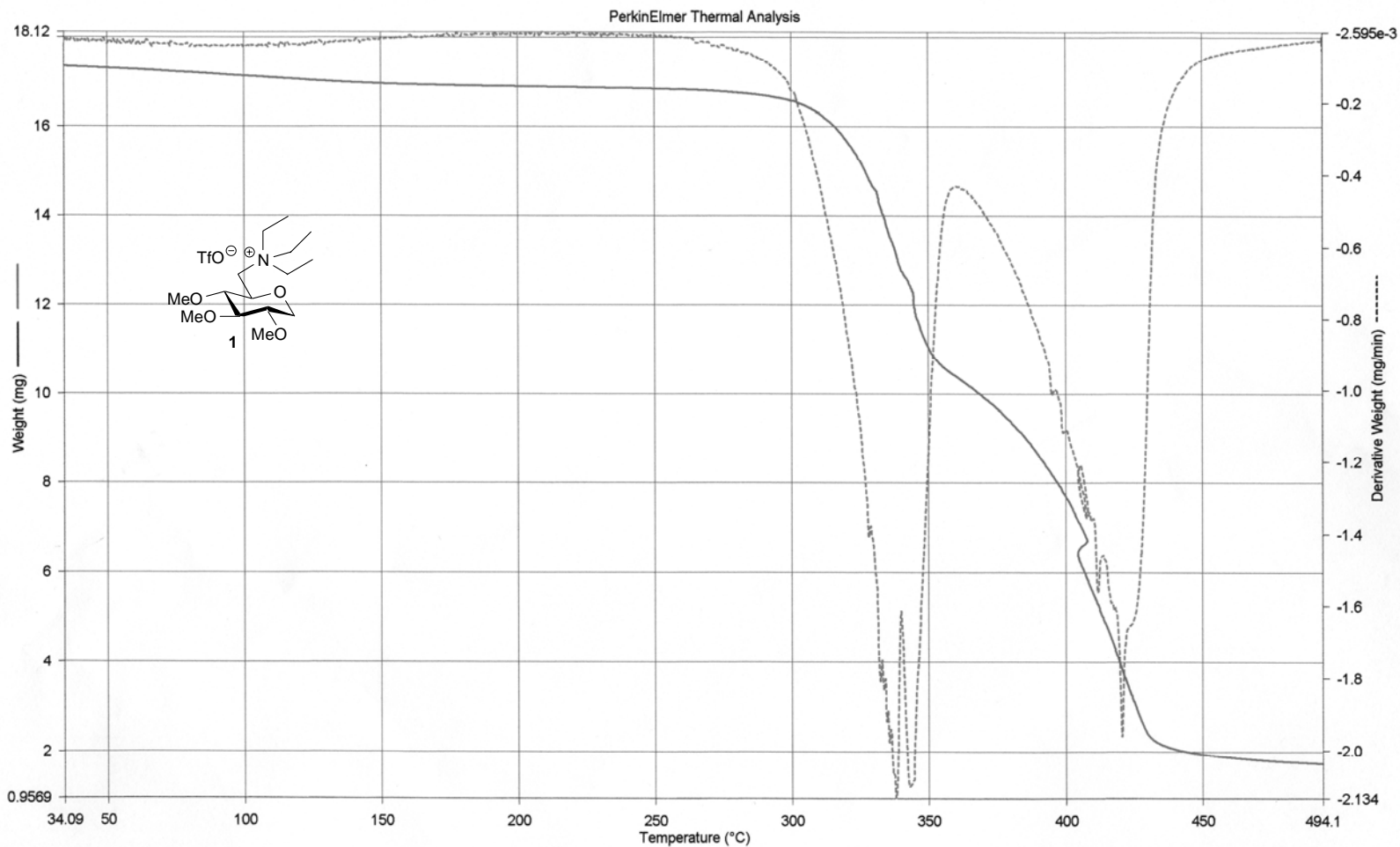
F2 - Acquisition Parameters  
 Date\_ 20051031  
 Time 15.36  
 INSTRUM spect  
 PROBHD 5 mm PABBI 1H/  
 PULPROG zg  
 TD 32768  
 SOLVENT D2O  
 NS 8  
 DS 0  
 SWH 2394.636 Hz  
 FIDRES 0.073078 Hz  
 AQ 6.8420086 sec  
 RG 101.6  
 DW 208.800 usec  
 DE 6.00 usec  
 TE 298.3 K  
 D1 2.00000000 sec  
 TD0 1

----- CHANNEL f1 -----  
 NUC1 1H  
 P1 6.40 usec  
 PL1 -1.00 dB  
 SFO1 400.1312000 MHz

F2 - Processing parameters  
 SI 16384  
 SF 400.1300000 MHz  
 WDW no  
 SSB 0  
 LB 0.00 Hz  
 GB 0  
 FC 1.00

# TGA analysis of IL 1.

Filename: C:\Program Files\Pyris\TGA...\Poletti-3.tgd  
Operator ID: Serena-Laura  
Sample ID: Poletti-3  
Sample Weight: 17.341 mg  
Comment:



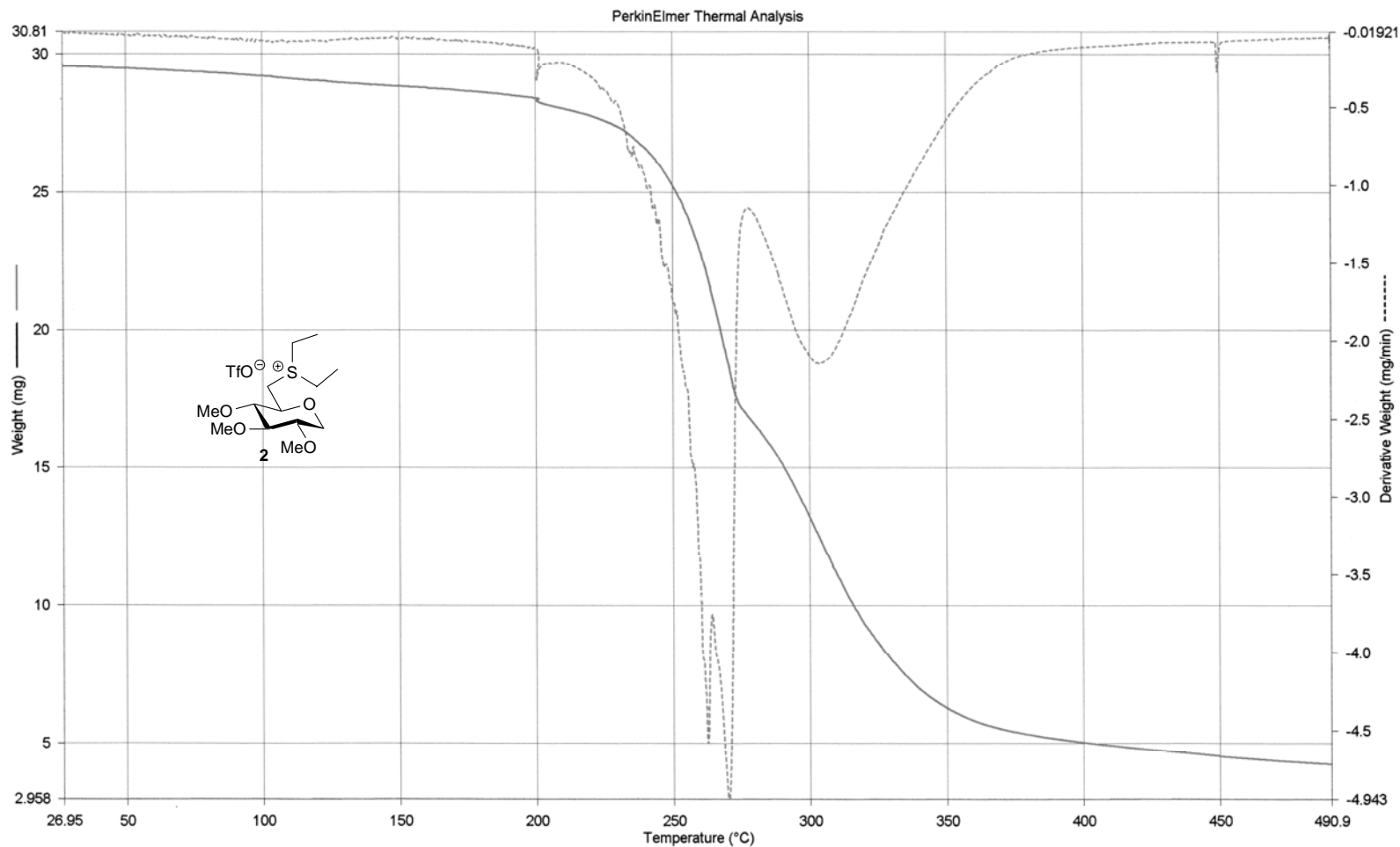
1) Heat from 35.00°C to 500.00°C at 10.00°C/min

2) Cool from 500.00°C to 30.00°C at 40.00°C/min

26/07/2006 15.21.36

TGA analysis of IL 2.

Filename: C:\Program Files\Pyris\TGA...\Poletti-2.tgd  
 Operator ID: Serena-Laura  
 Sample ID: Poletti-2  
 Sample Weight: 29.552 mg  
 Comment:

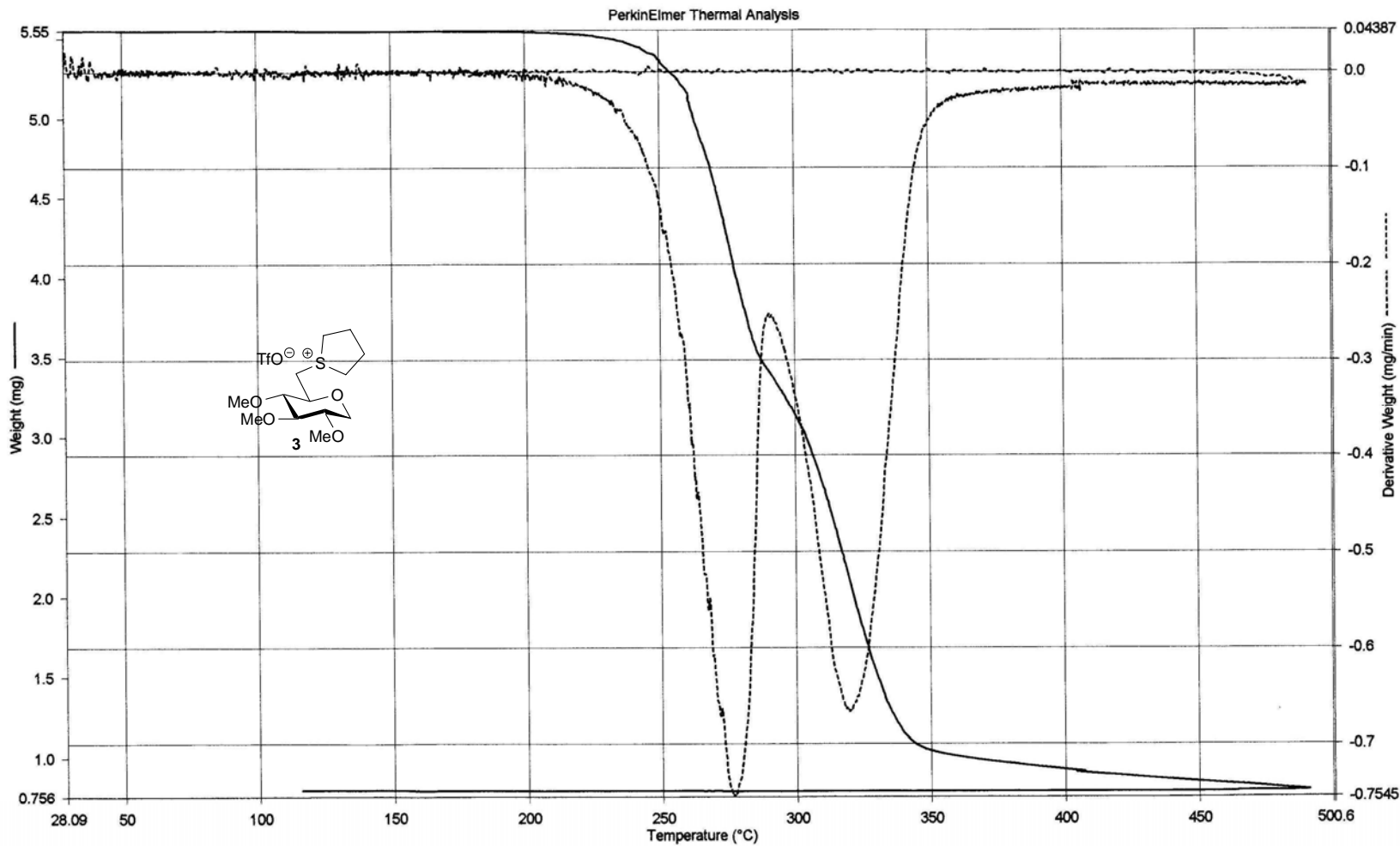


26/07/2006 14.11.45

1) Heat from 30.00°C to 500.00°C at 10.00°C/min  
 2) Cool from 500.00°C to 30.00°C at 40.00°C/min

TGA analysis of IL 3.

Filename: C:\Program Files\Pyris\TGA...\Poletti-1.tgd  
 Operator ID: Serena-Laura  
 Sample ID: Poletti-1  
 Sample Weight: 5.545 mg  
 Comment:



24/07/2006 17.00.36

1) Heat from 30.00°C to 500.00°C at 10.00°C/min  
 2) Cool from 500.00°C to 30.00°C at 40.00°C/min