

Synthesis and characterization of perfluoro-*tert*-butyl semifluorinated amphiphilic polymers and their potential application in hydrophobic drug delivery.

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Supporting Information

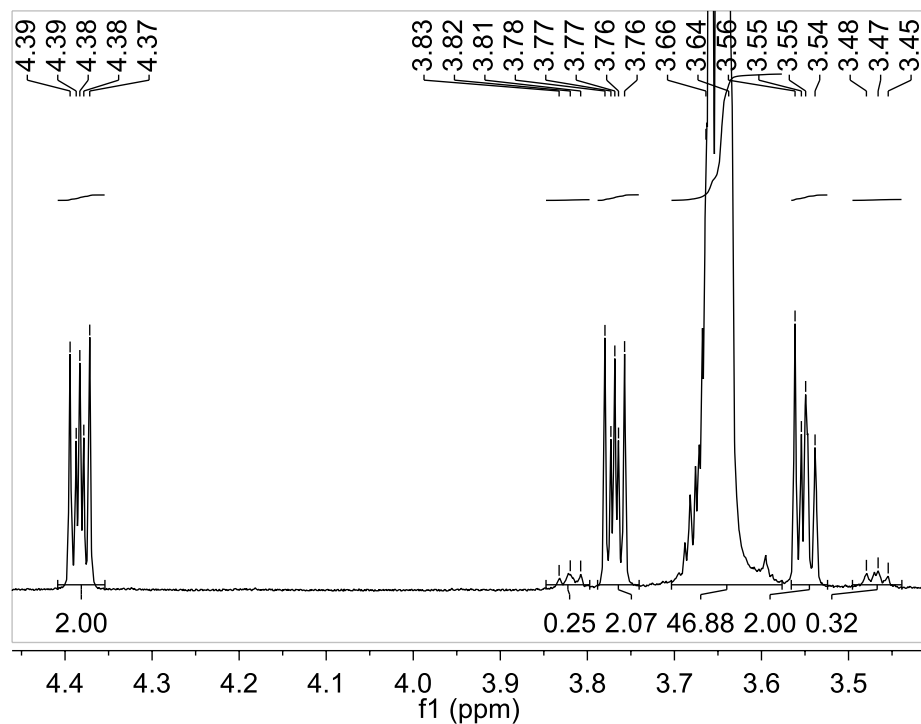
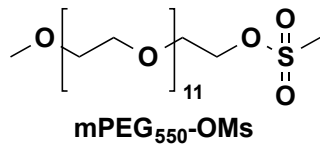
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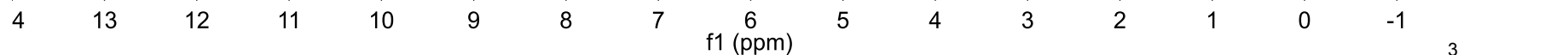
¹H-NMR (CDCl₃, 400 MHz)

PROTON
sed-l-18_20May2011



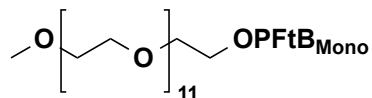
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4.38
4.37
4.37
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3.82
3.81
3.78
3.77
3.77
3.76
3.76
3.66
3.64
3.56
3.55
3.55
3.54
3.48
3.47
3.45
3.38
3.09
1.84

2.00 0.25 2.07 46.88 2.00 0.32 2.78 3.00 2.13

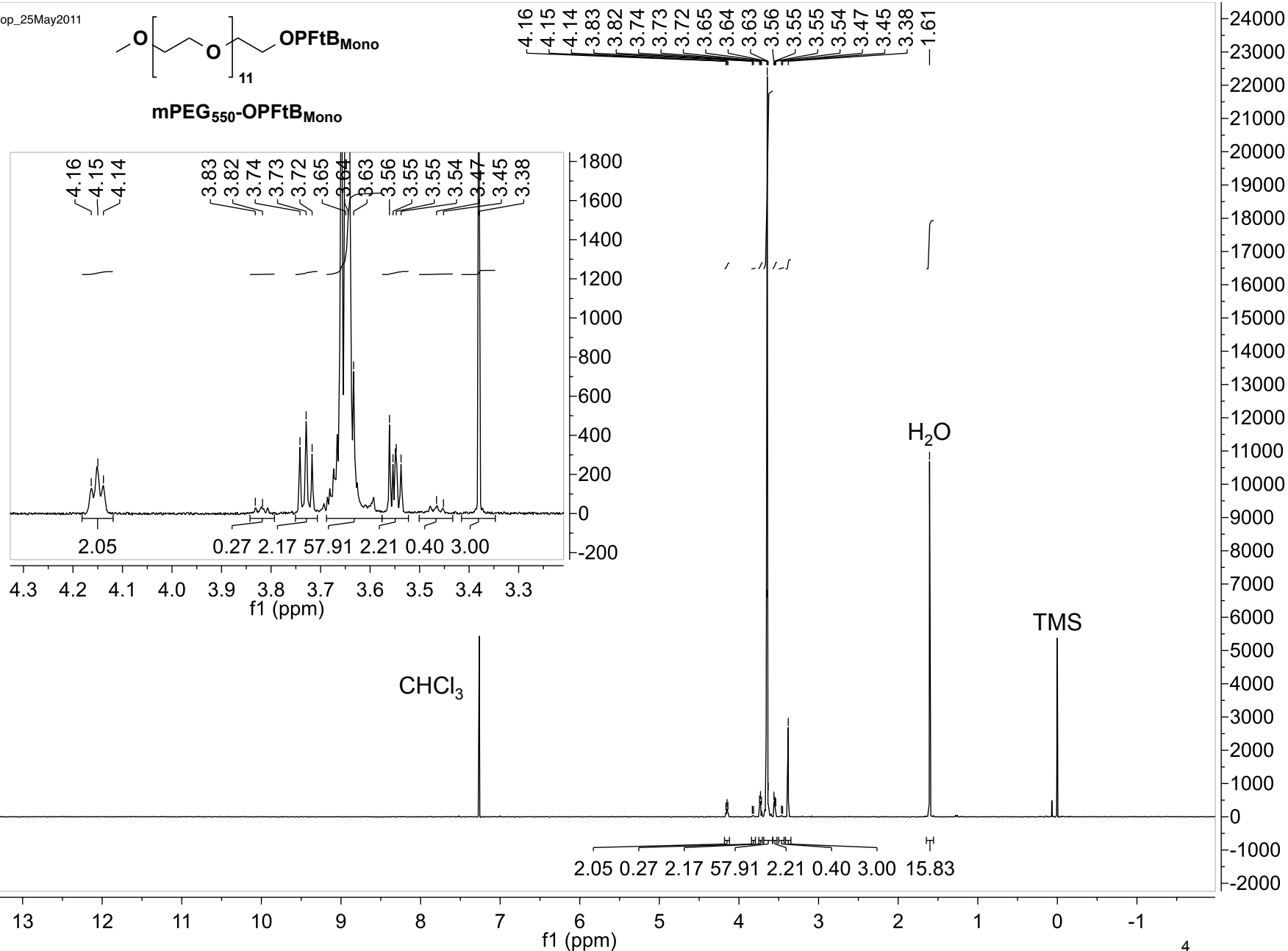


¹H-NMR (CDCl₃, 400 MHz)

PROTON
sed-l-19-lyop_25May2011

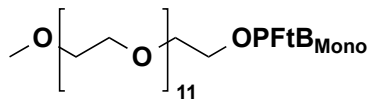


mPEG₅₅₀-OPFtB_{Mono}

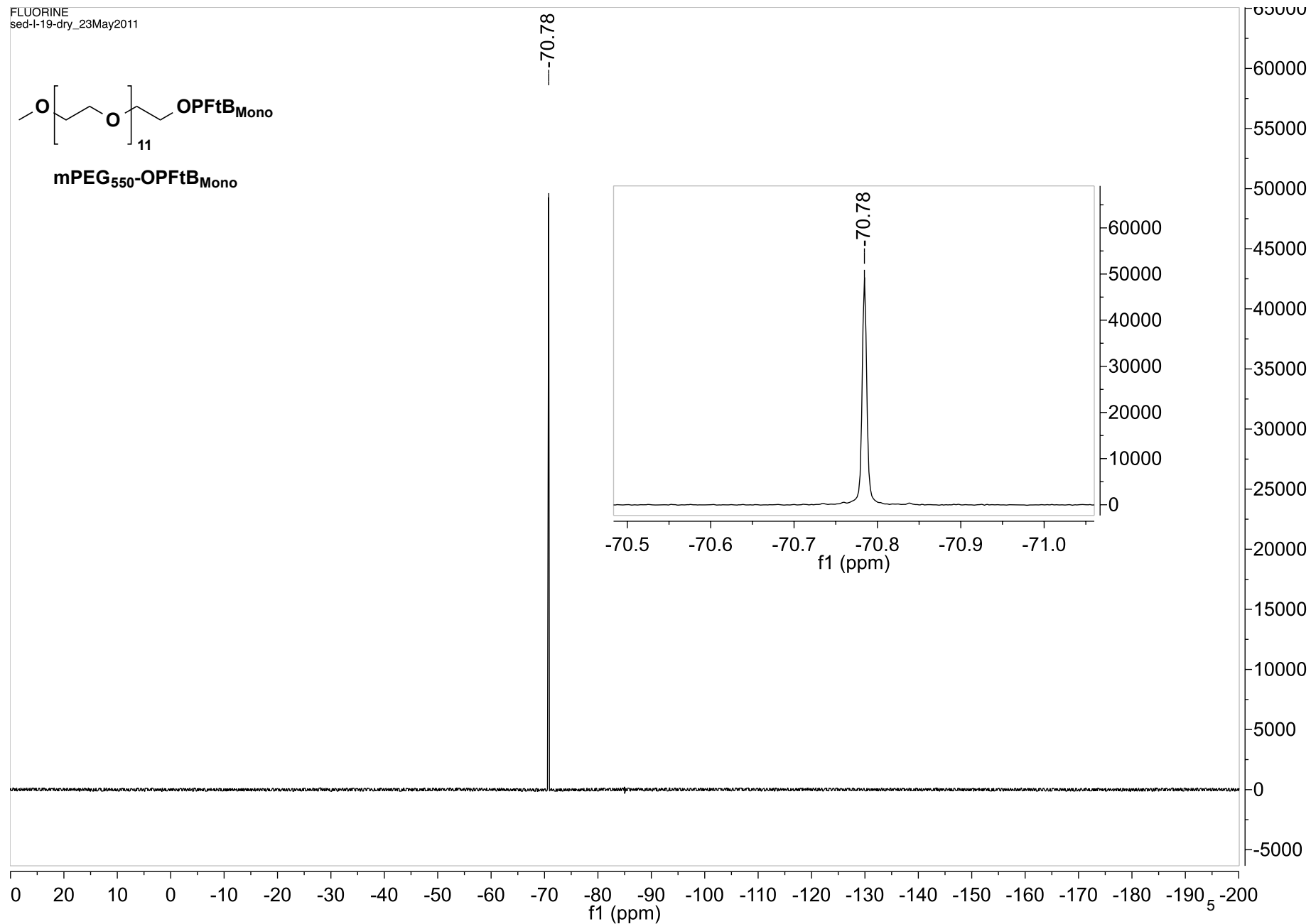


^{19}F -NMR (CDCl_3 , 400 MHz)

FLUORINE
sed-l-19-dry_23May2011



mPEG₅₅₀-OPFtB_{Mono}

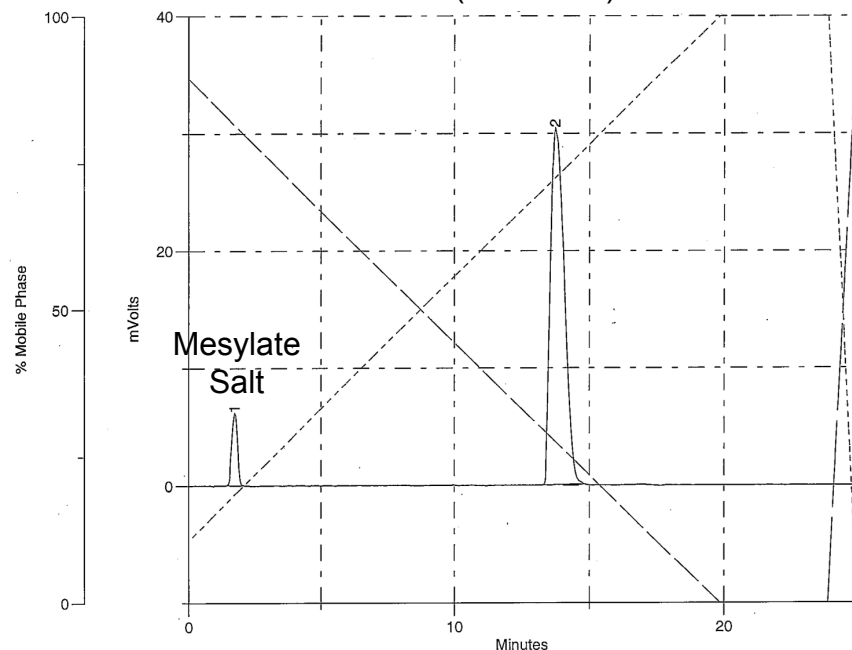
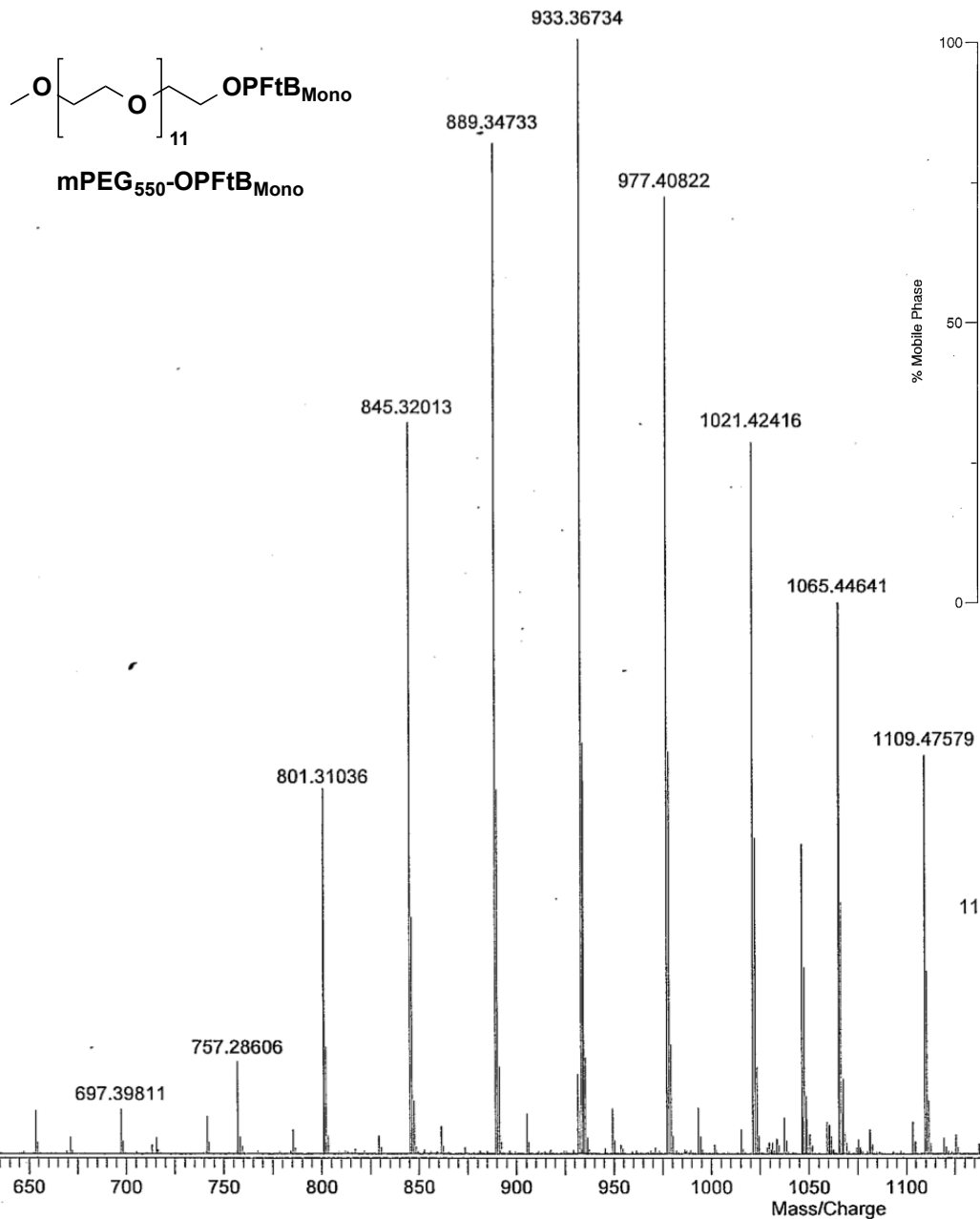


File: SED-I-19.trans
SED-I-19 17%lp,10ls,100m/z agitensin 17% 10ls

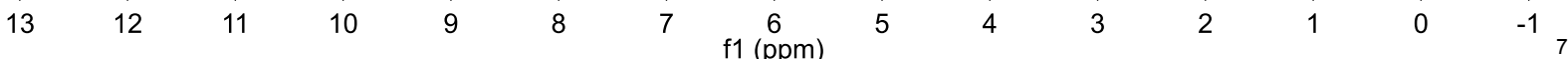
18.624

TotInt: 246.48

Scale: 8.6389

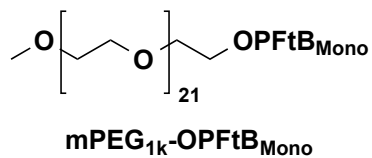


PROTON
TAB-I-9-purified_10Jan2012

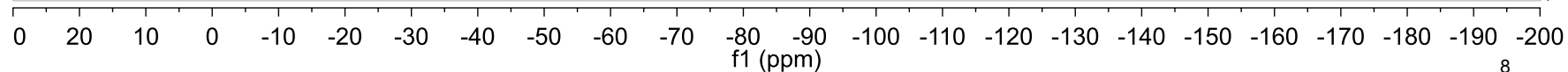
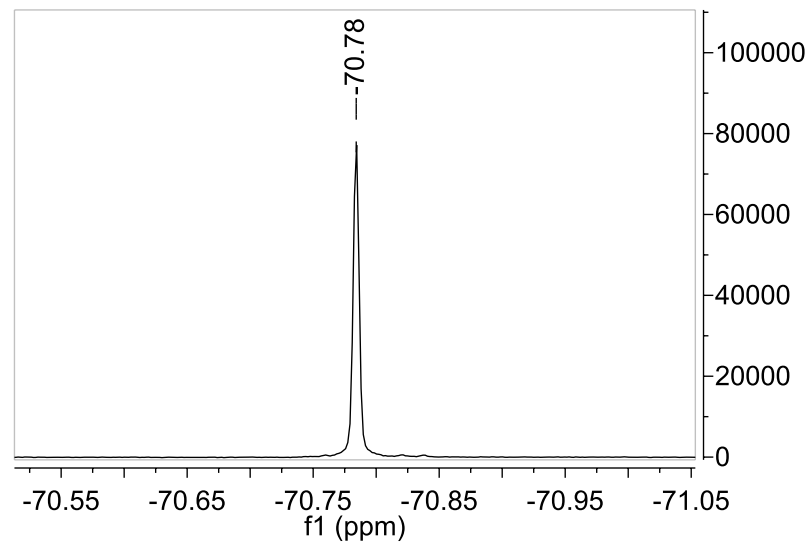


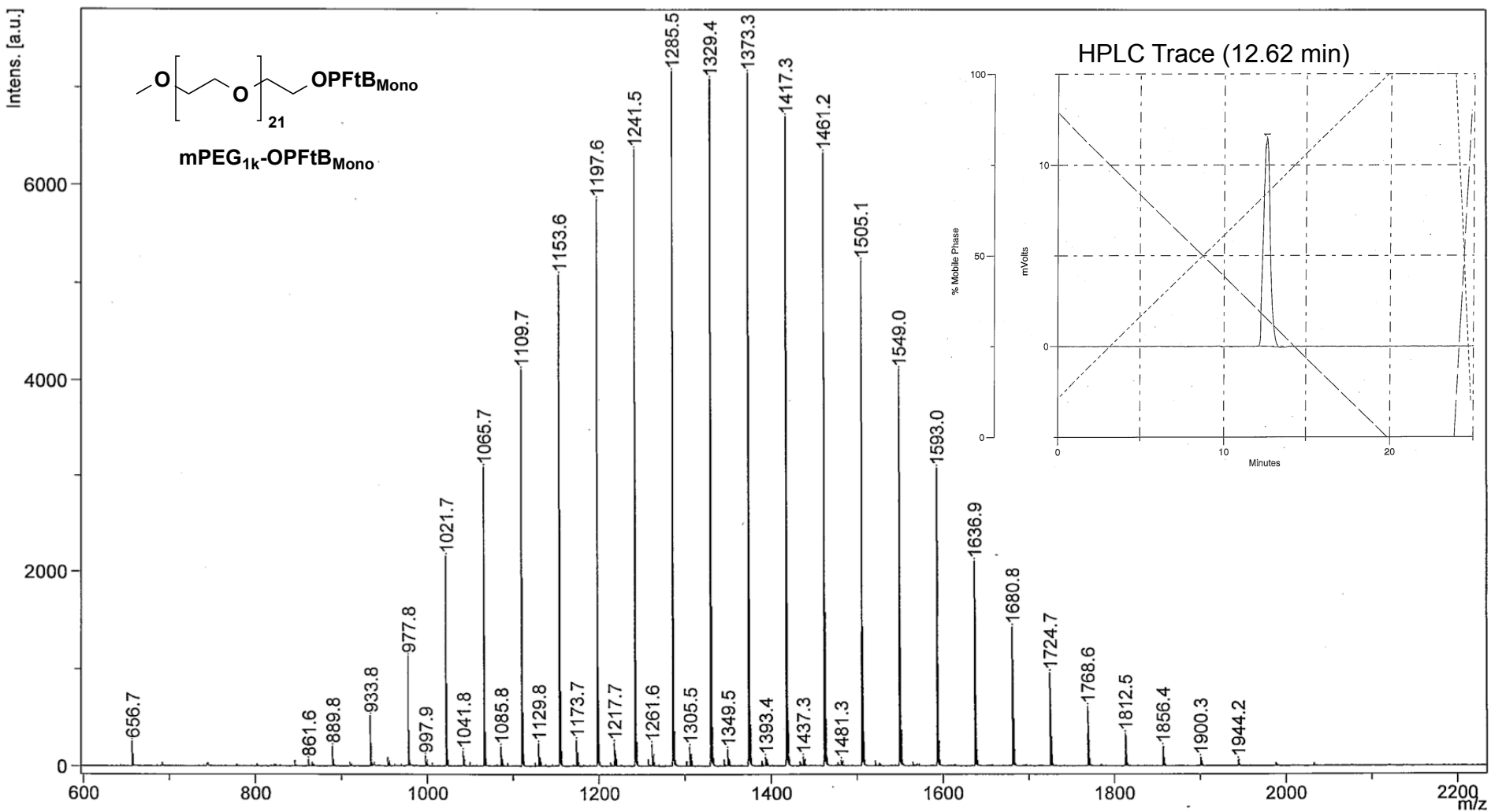
¹⁹F-NMR (CDCl₃, 400 MHz)

FLUORINE
TAB-I-9-purified_10Jan2012



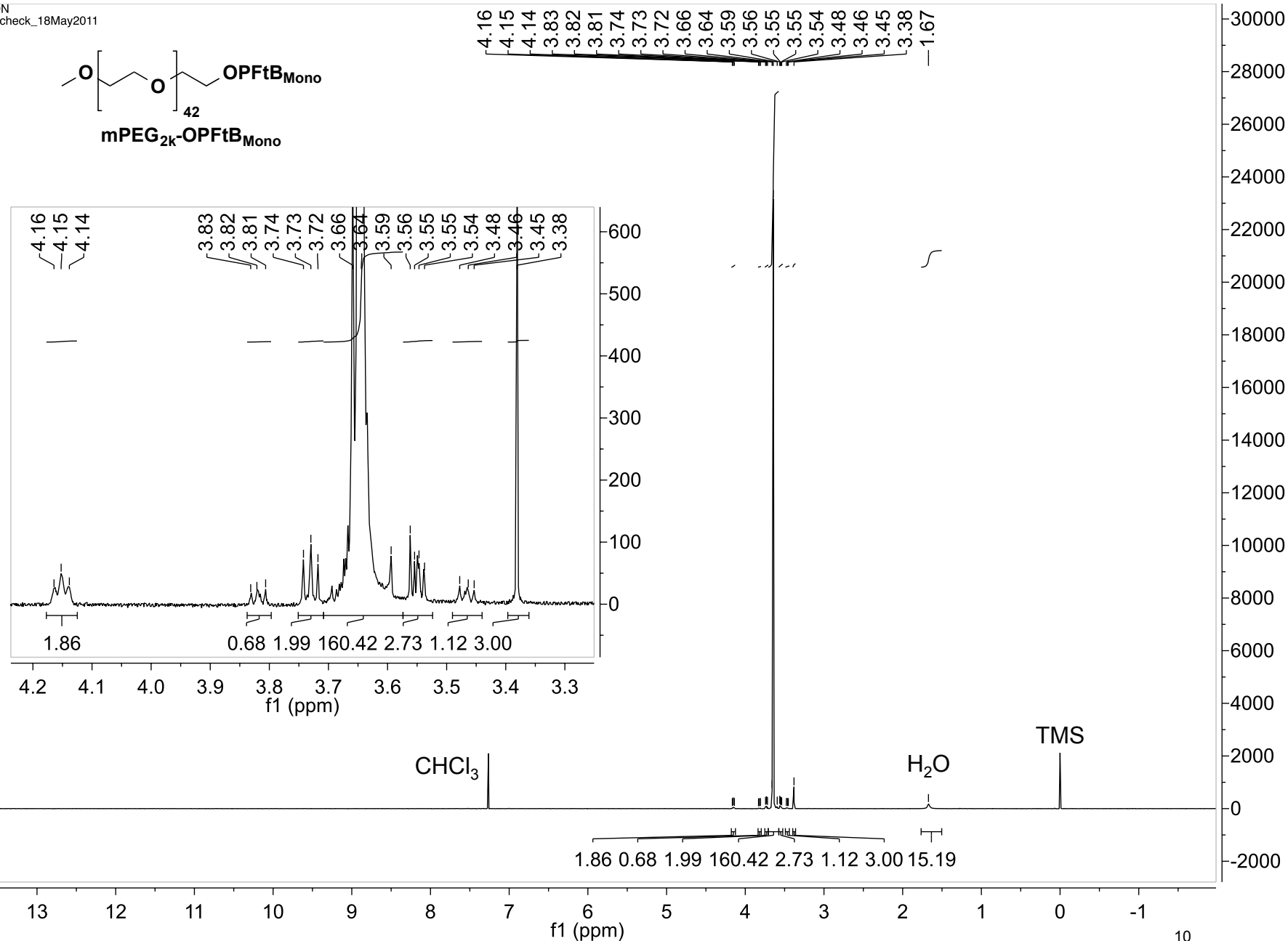
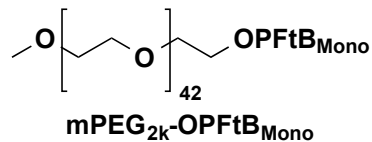
--70.78





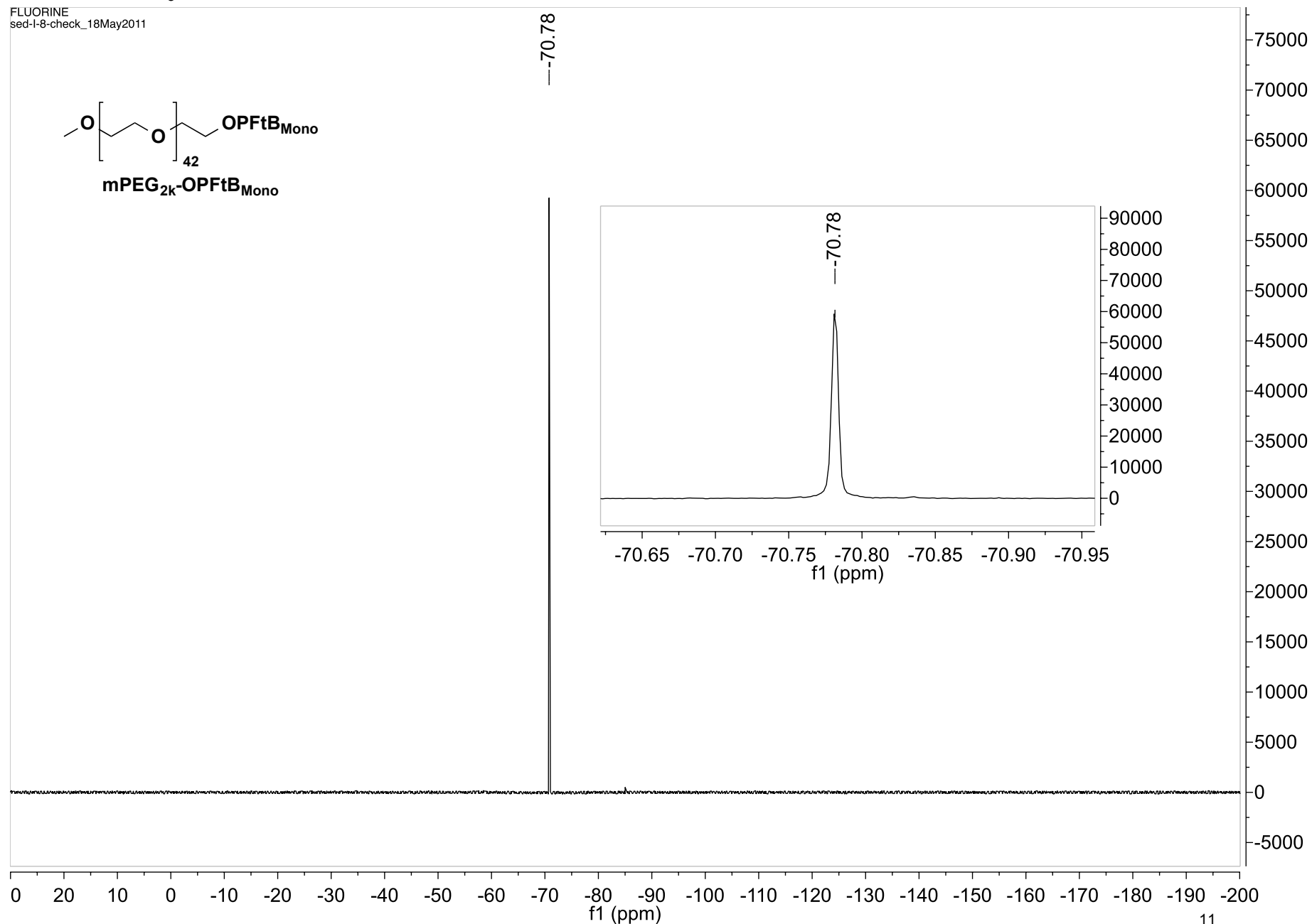
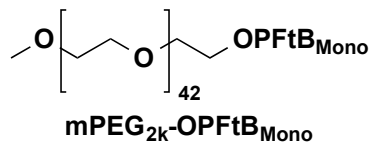
¹H-NMR (CDCl₃, 400 MHz)

PROTON
sed-l-8-check_18May2011



¹⁹F-NMR (CDCl₃, 400 MHz)

FLUORINE
sed-l-8-check_18May2011



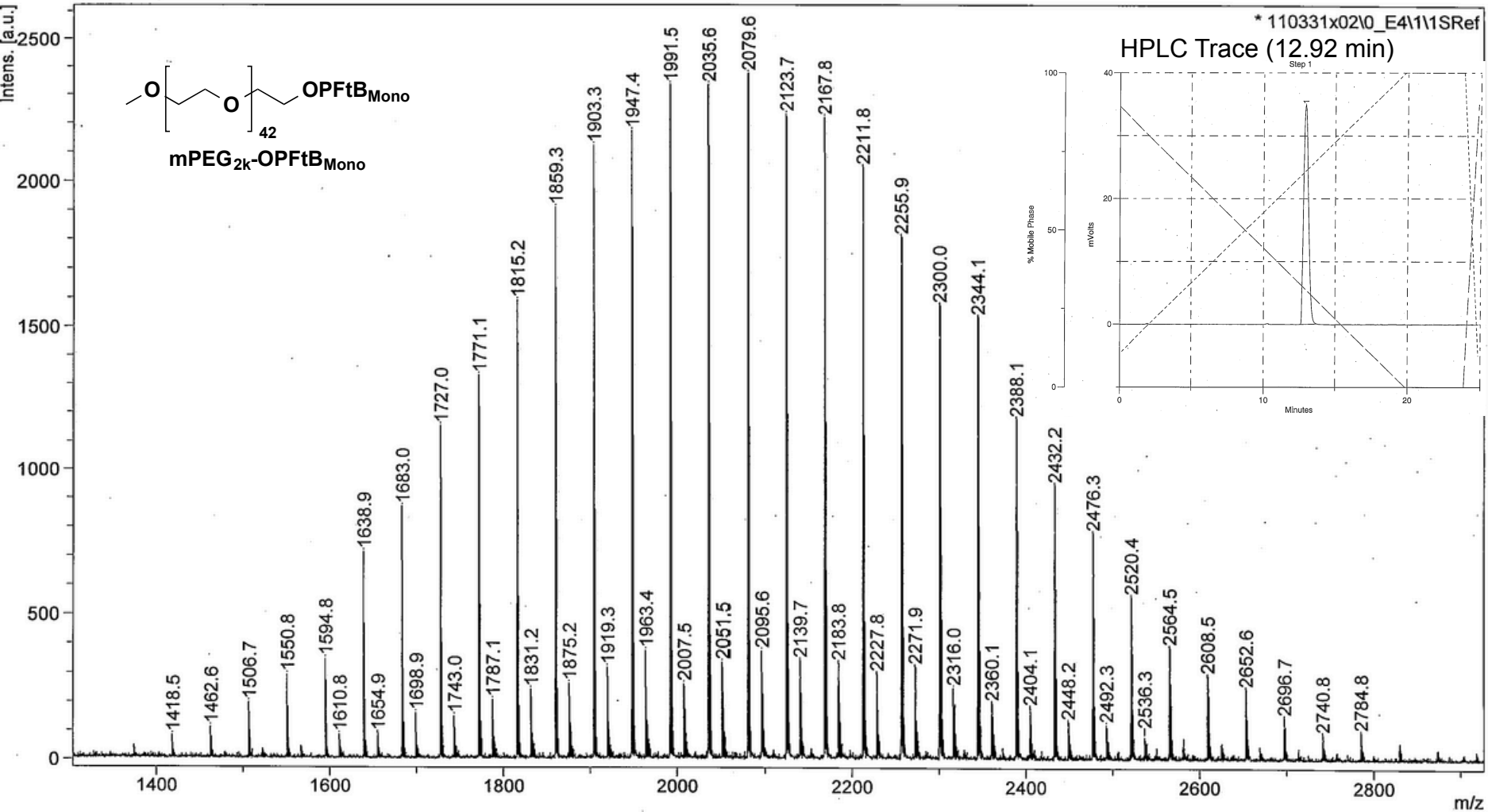
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Comment 1

Decato 890 // CHCA // RP_PepMix.par

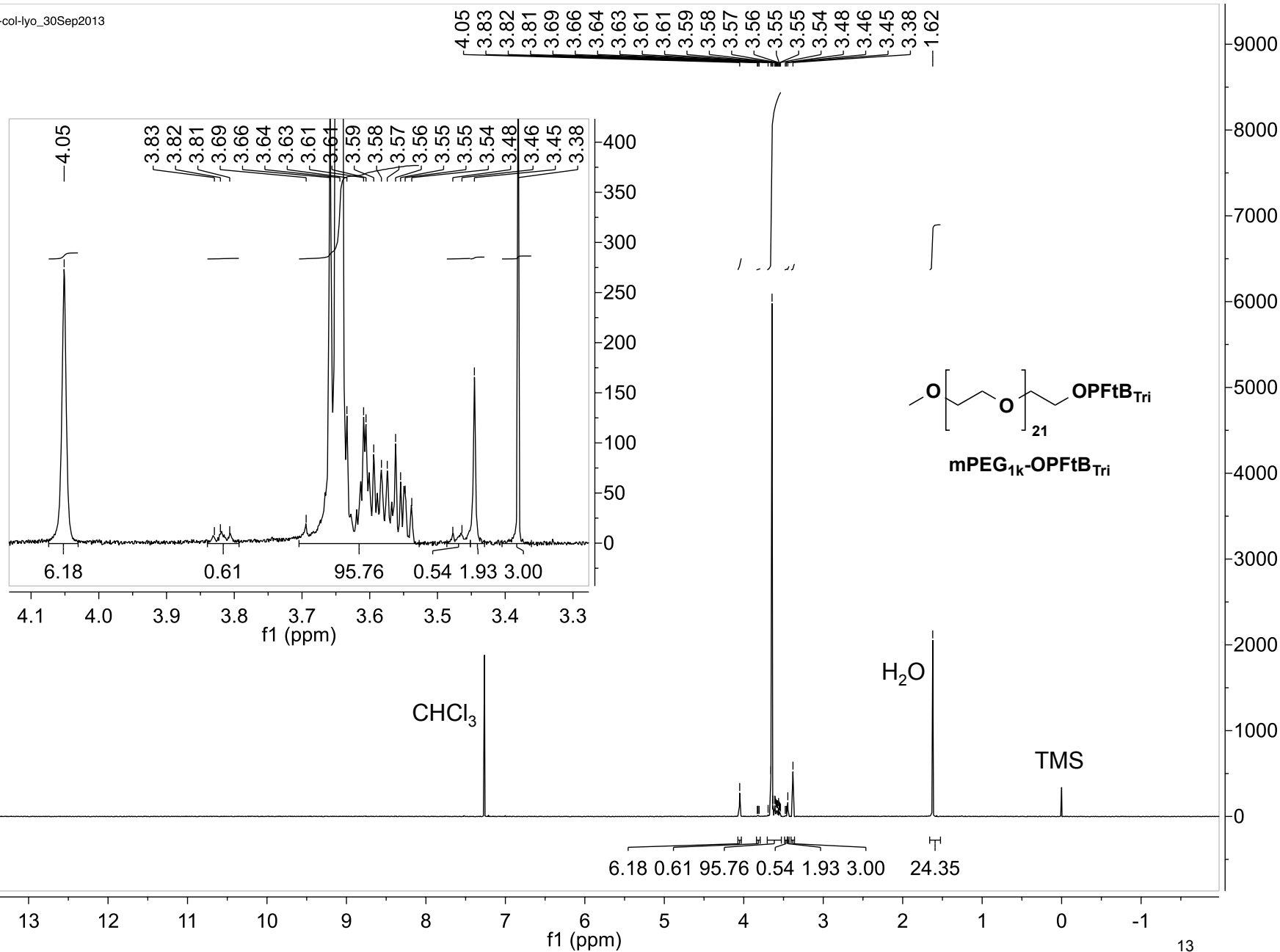
Comment 2

250 shots, 50% Ip (68), 120-3640



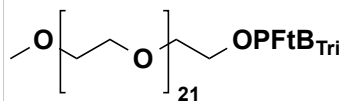
¹H-NMR (CDCl₃, 400 MHz)

PROTON
EJM-I-29-col-lyo_30Sep2013

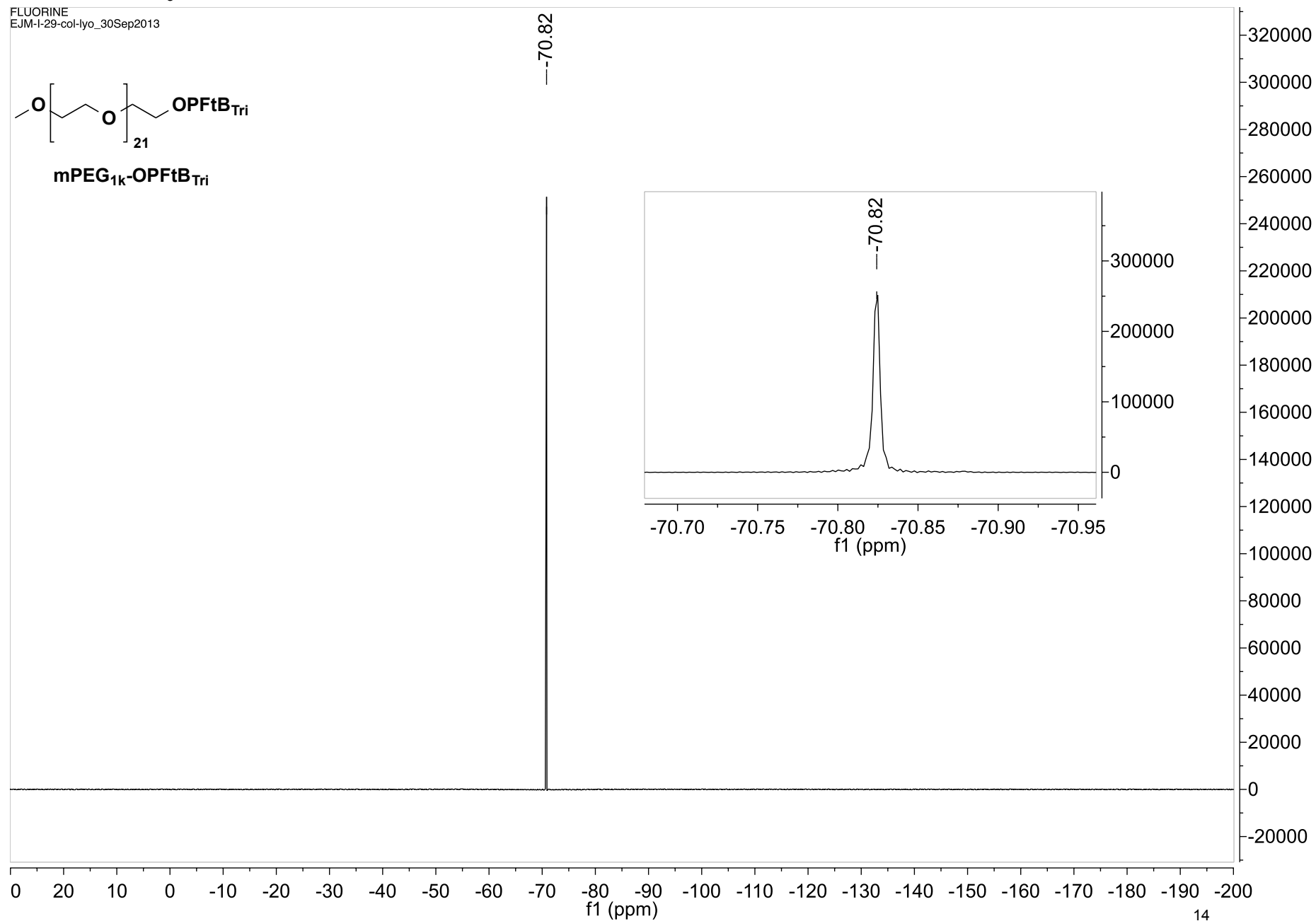


¹⁹F-NMR (CDCl₃, 400 MHz)

FLUORINE
EJM-I-29-col-lyo_30Sep2013

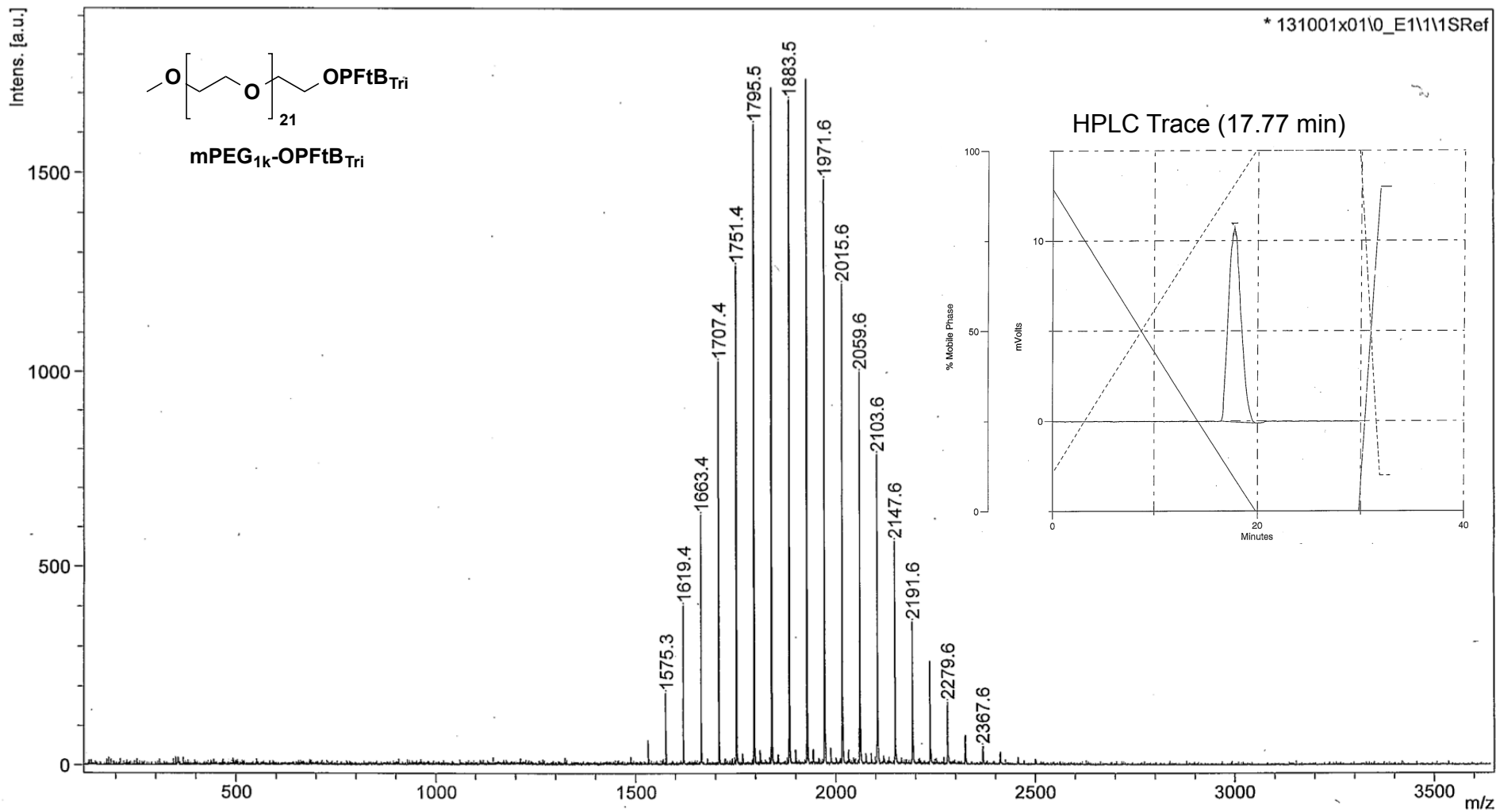


mPEG_{1k}-OPFtBTri



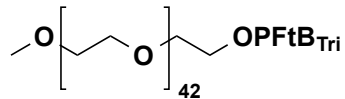
Decato 3728 // CHCA // RP_PepMix.par

100 shots, 10% lp (74)

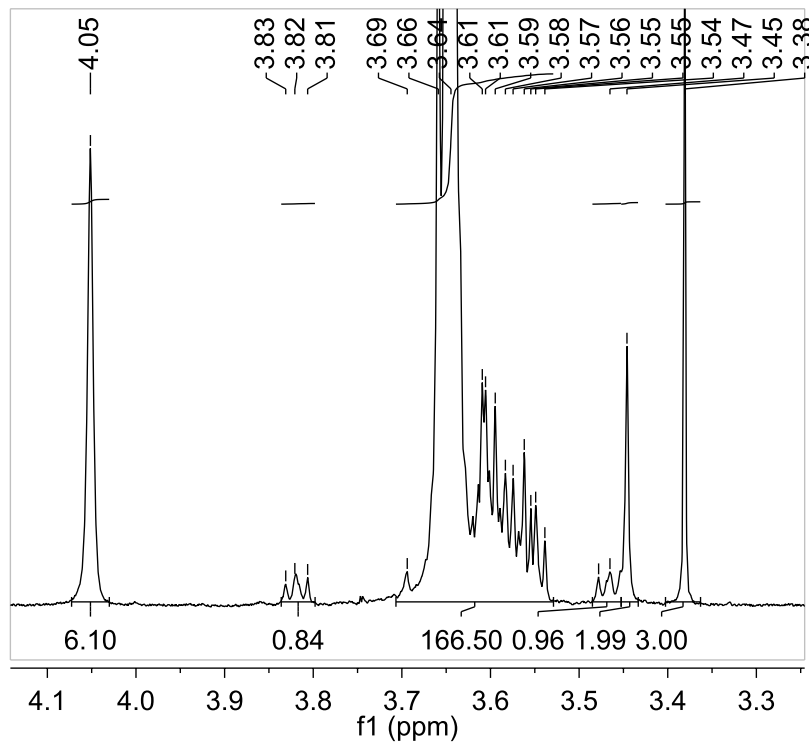


¹H-NMR (CDCl₃, 400 MHz)

PROTON
TAB-I-34-lyo-30mg_01Oct2013



mPEG_{2k}-OPFtB_{Tri}



4.05
3.83
3.82
3.81
3.69
3.66
3.64
3.61
3.61
3.59
3.58
3.57
3.56
3.55
3.55
3.54
3.48
3.47
3.45
3.38
1.97

65000

60000

55000

50000

45000

40000

35000

30000

25000

20000

15000

10000

5000

0

-5000

H₂O

TMS

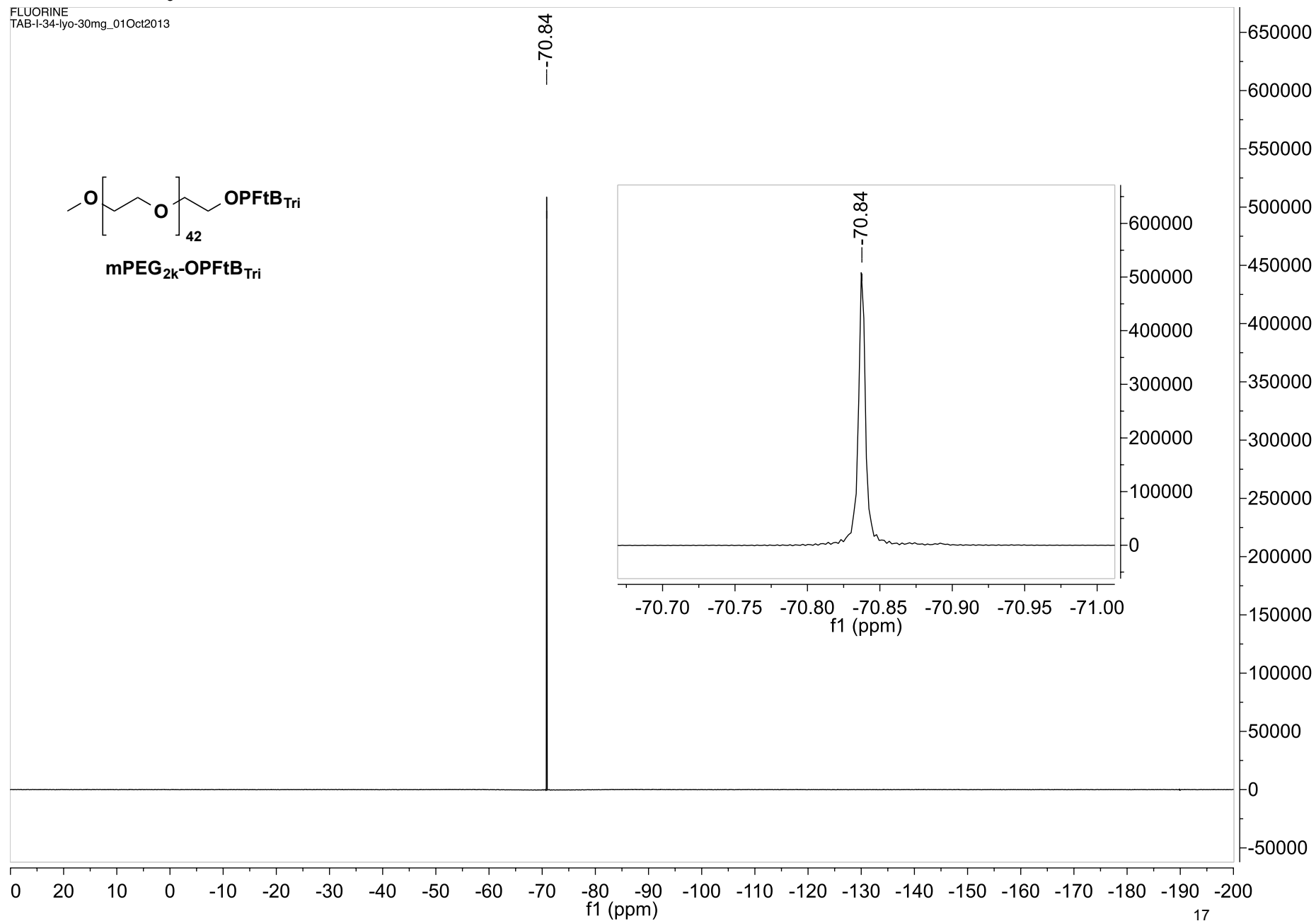
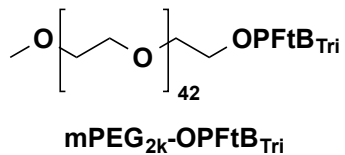
CHCl₃

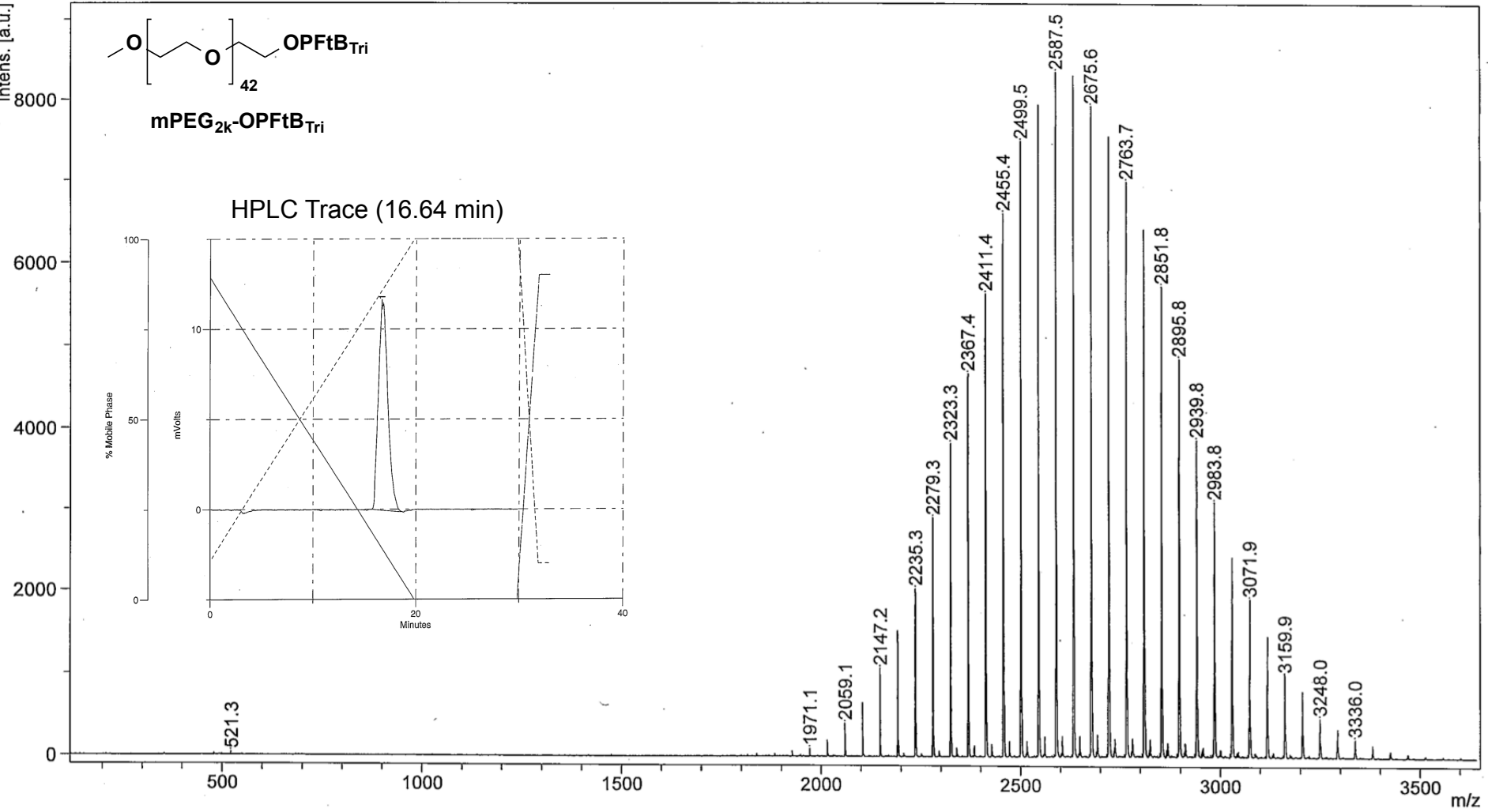
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f1 (ppm)

¹⁹F-NMR (CDCl₃, 400 MHz)

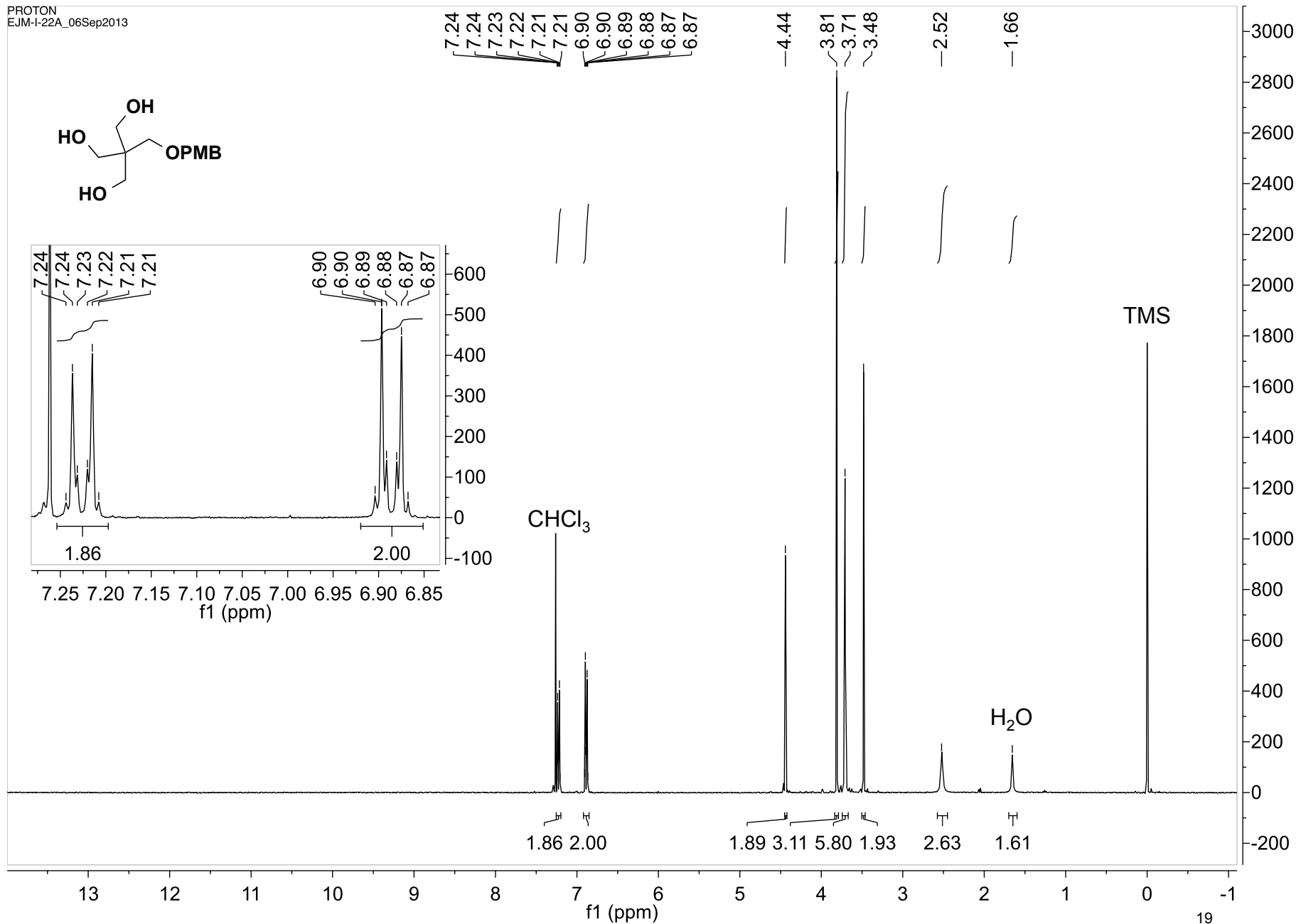
FLUORINE
TAB-I-34-lyo-30mg_01Oct2013





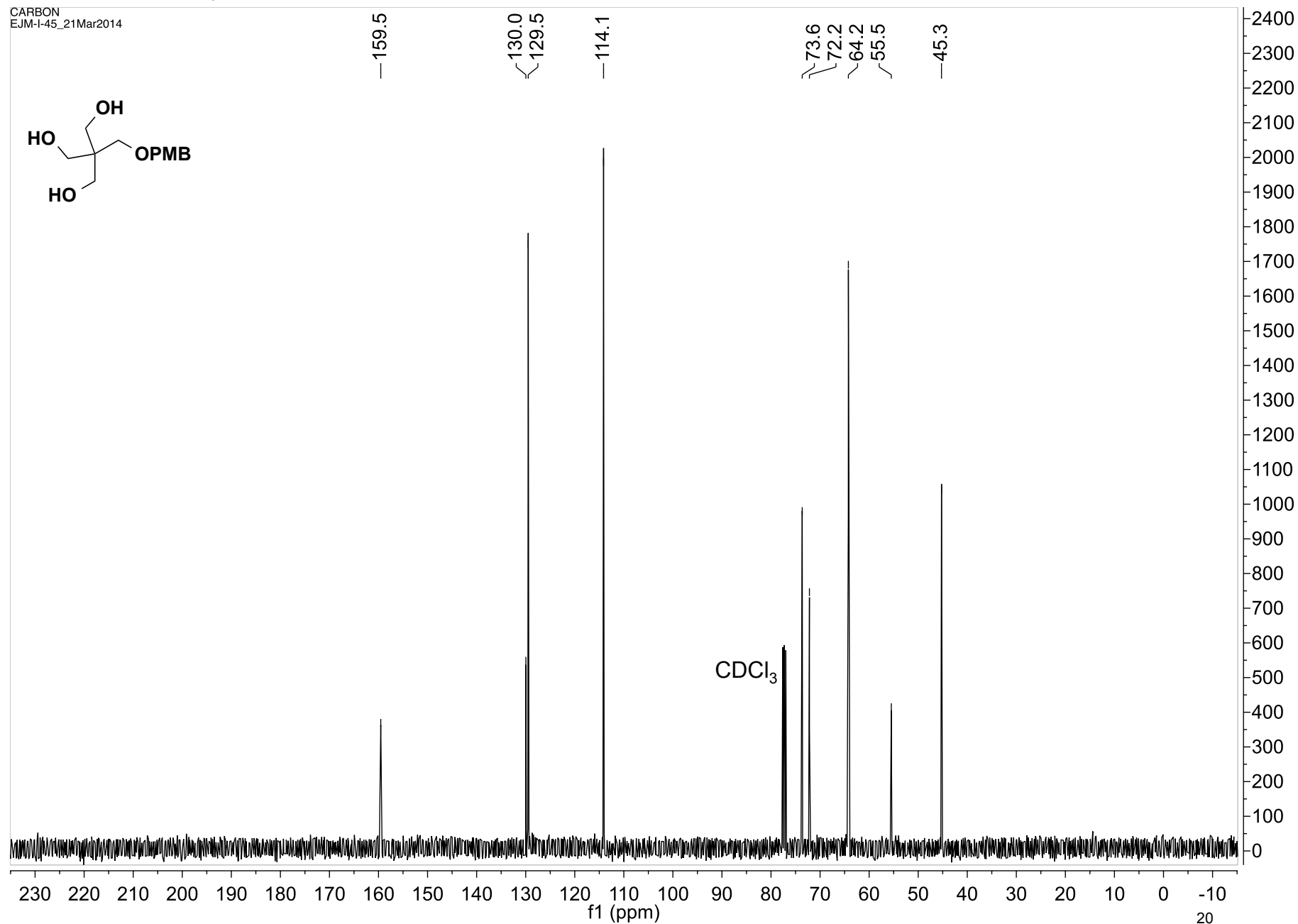
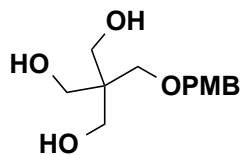
¹H-NMR (CDCl₃, 400 MHz)

PROTON
EJM-I-22A_06Sep2013



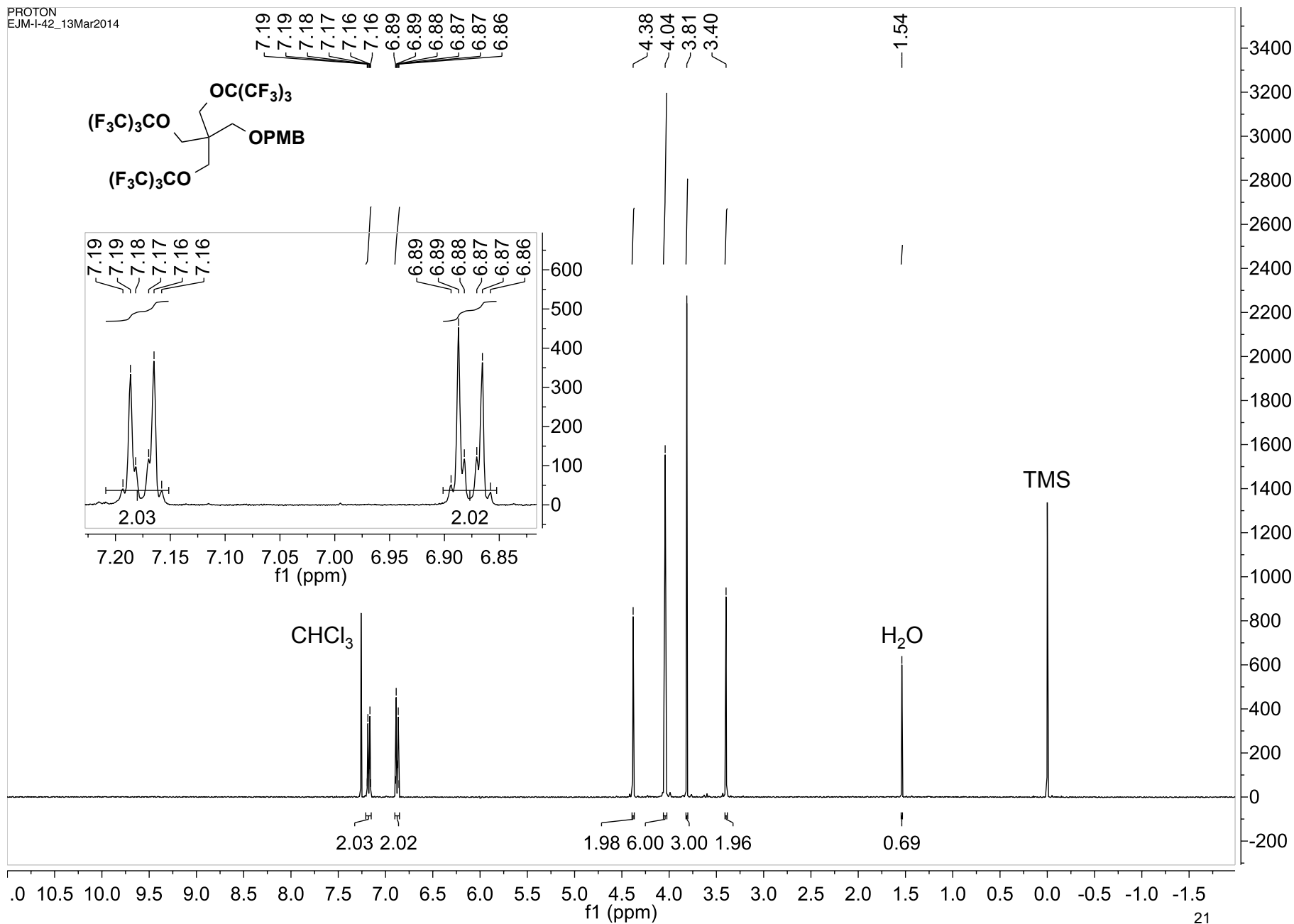
$^{13}\text{C}\{^1\text{H}\}$ -NMR (CDCl_3 , 100 MHz)

CARBON
EJM-I-45_21Mar2014



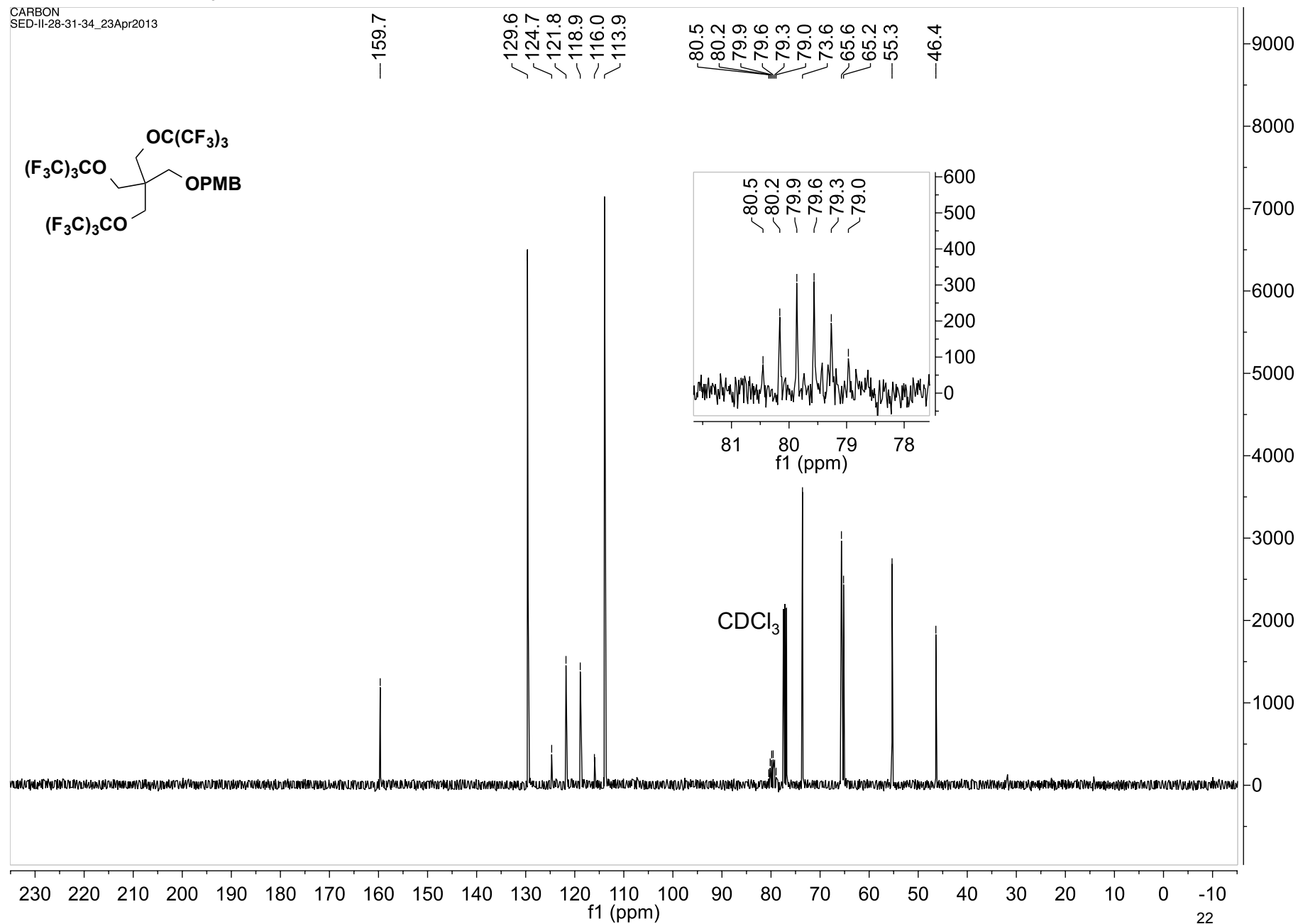
¹H-NMR (CDCl₃, 400 MHz)

PROTON
EJM-I-42_13Mar2014



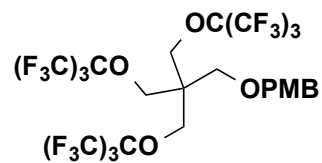
$^{13}\text{C}\{^1\text{H}\}$ -NMR (CDCl_3 , 100 MHz)

CARBON
SED-II-28-31-34_23Apr2013

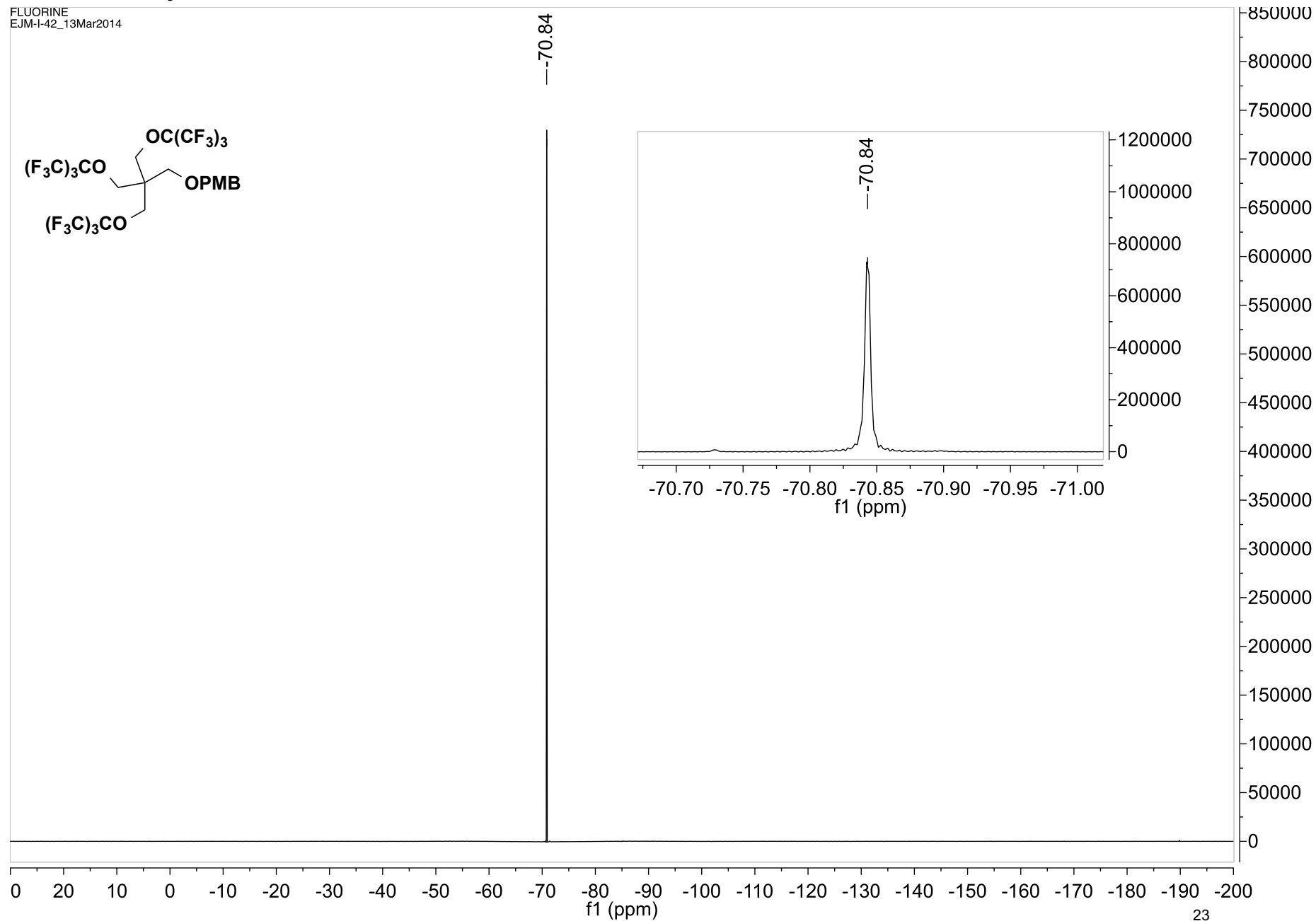
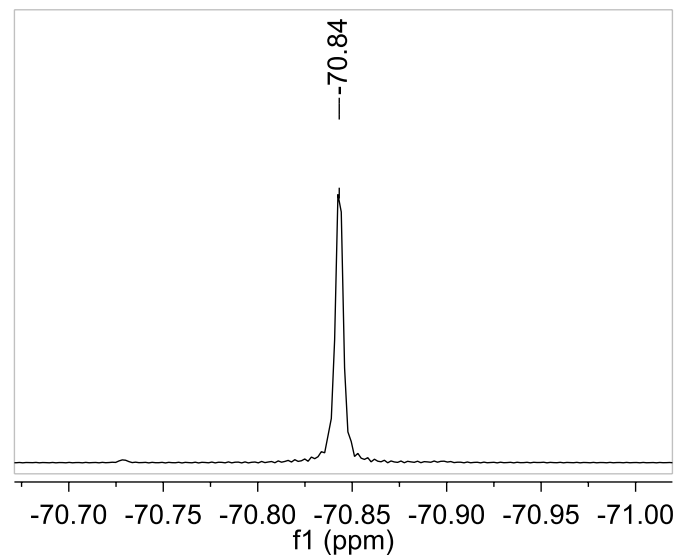


¹⁹F-NMR (CDCl₃, 400 MHz)

FLUORINE
EJM-I-42_13Mar2014

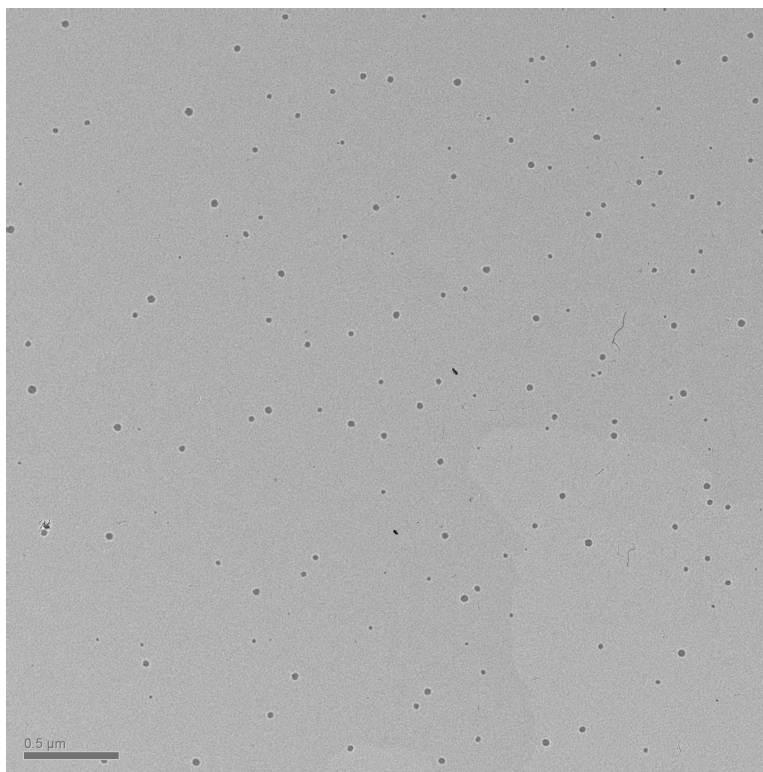


--70.84



Enhanced contrast TEM image

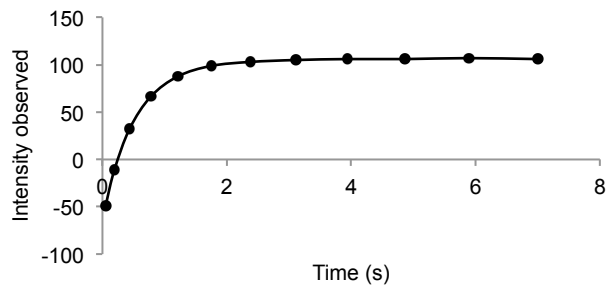
Contrast has been increased uniformly over the entire image for clarity.



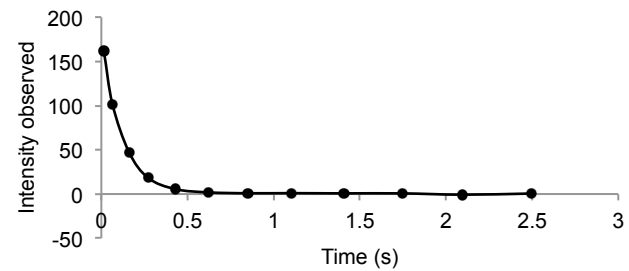
TEM image of mPEG_{1k}-OPFtB_{TRI} micelles, scale bar: 0.5 μm.
Due to difficulties in achieving contrast, an aqueous solution of polymer was dried and then imaged.

mPEG_{1k}-OPFtB_{TRI}

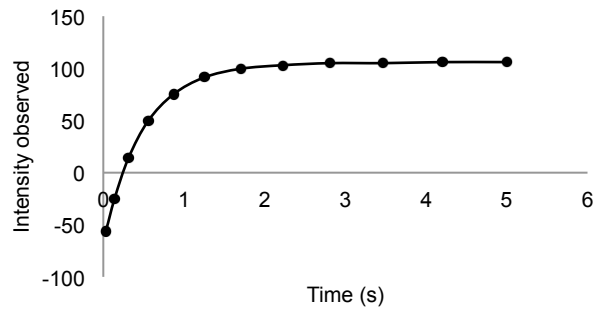
T₁ : mPEG_{1k}PfTb_{TRI}



T₂ : mPEG_{1k}PfTb_{TRI}



T₁ : mPEG_{2k}PfTb_{TRI}



T₂ : mPEG_{2k}PfTb_{TRI}

