

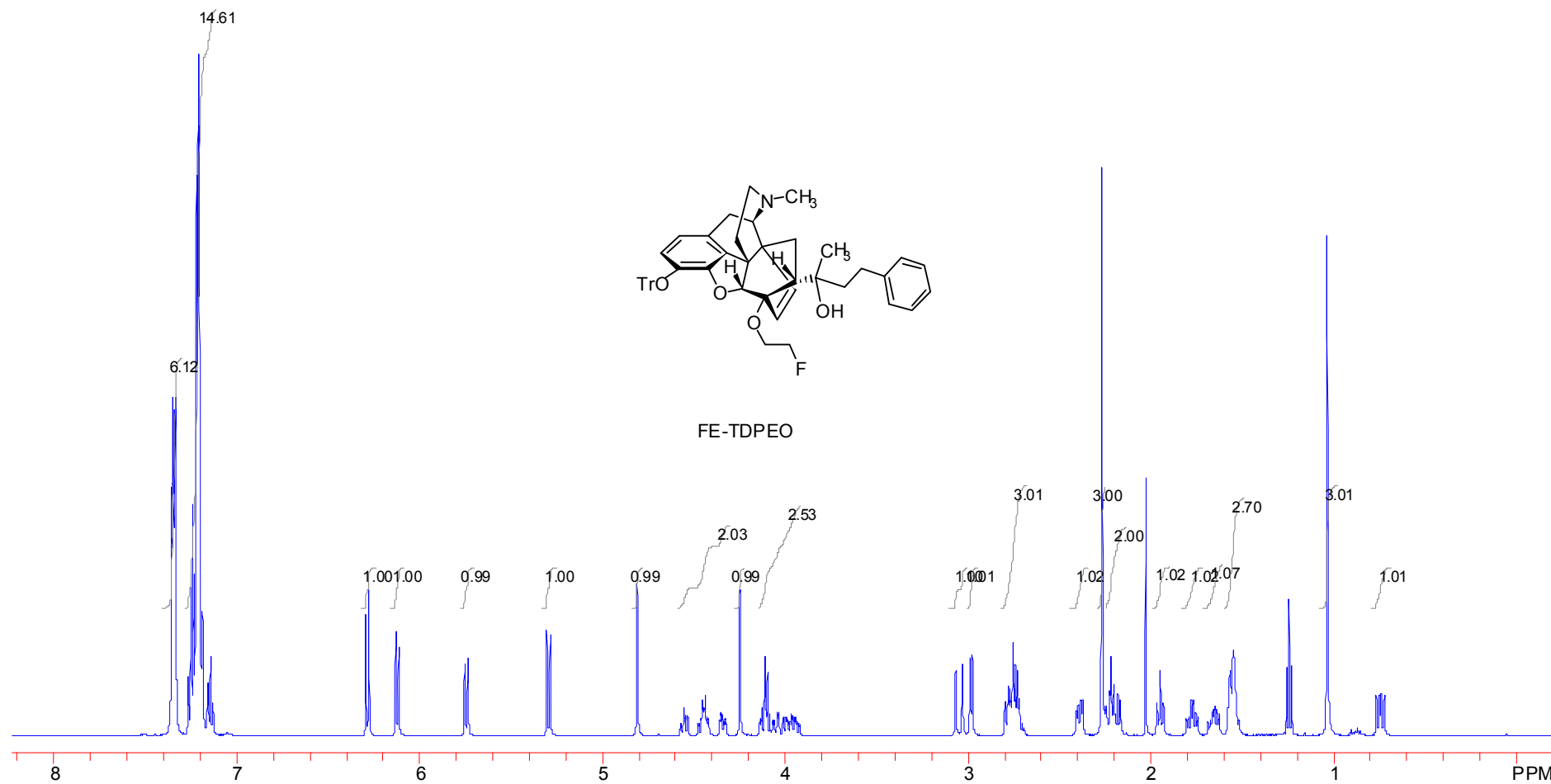
Figure S1. ^1H -NMR spectrum of FE-TDPEO (**2**) in CDCl_3 .

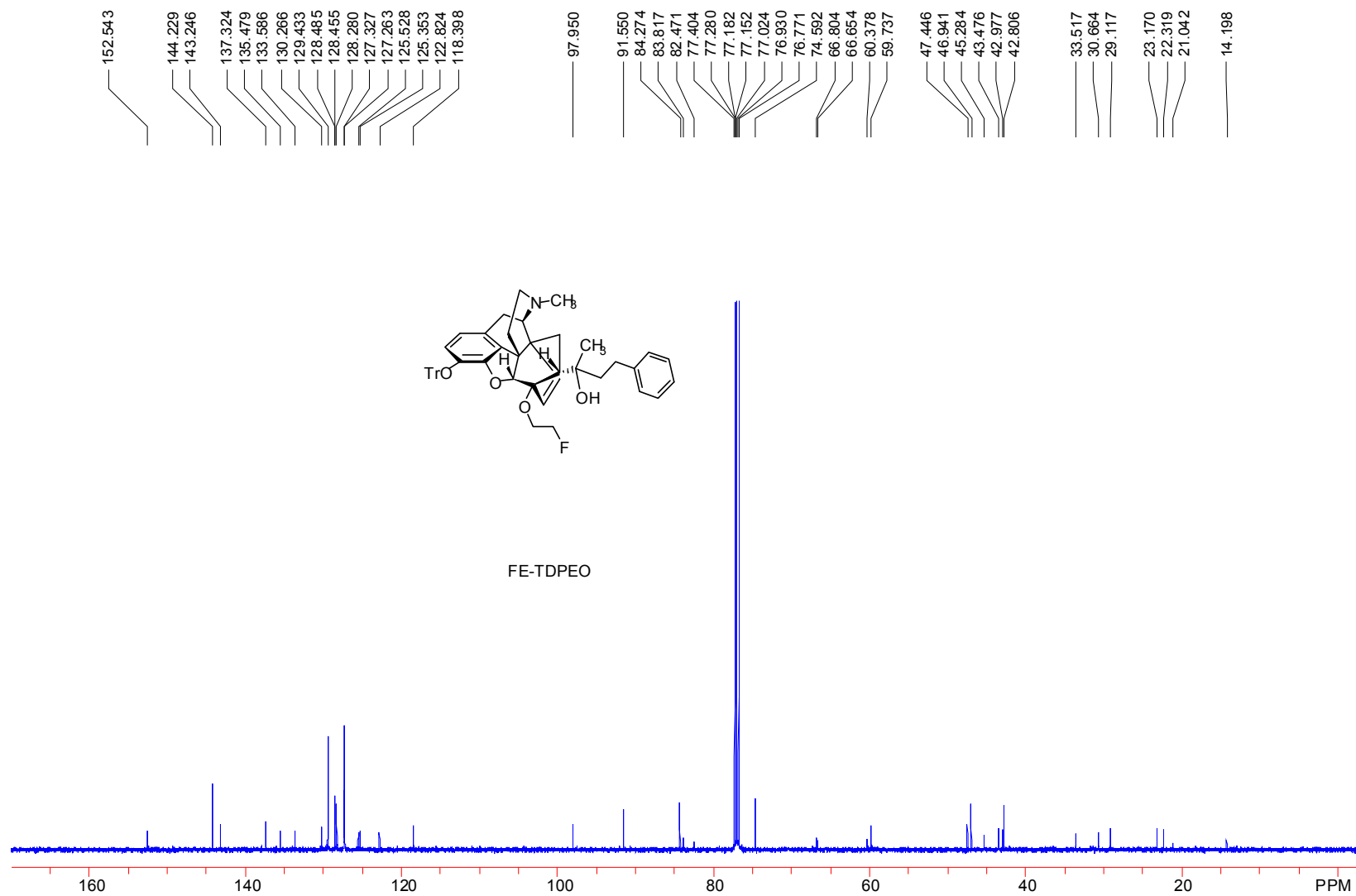
Figure S2. ^{13}C -NMR spectrum of FE-TDPEO (**2**) in CDCl_3 .

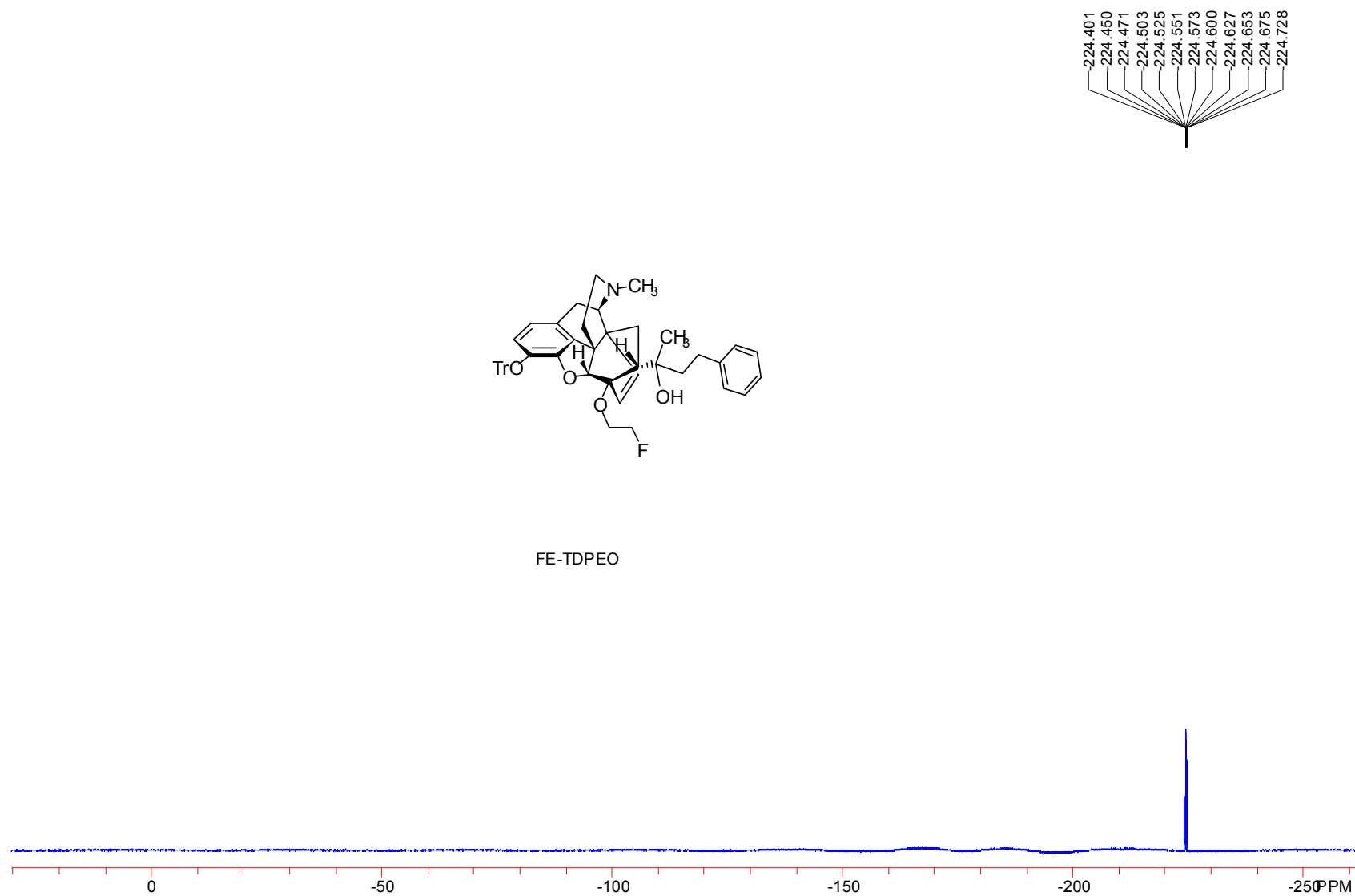
Figure S3. ^{19}F -NMR spectrum of FE-TDPEO (**2**) in CDCl_3 .

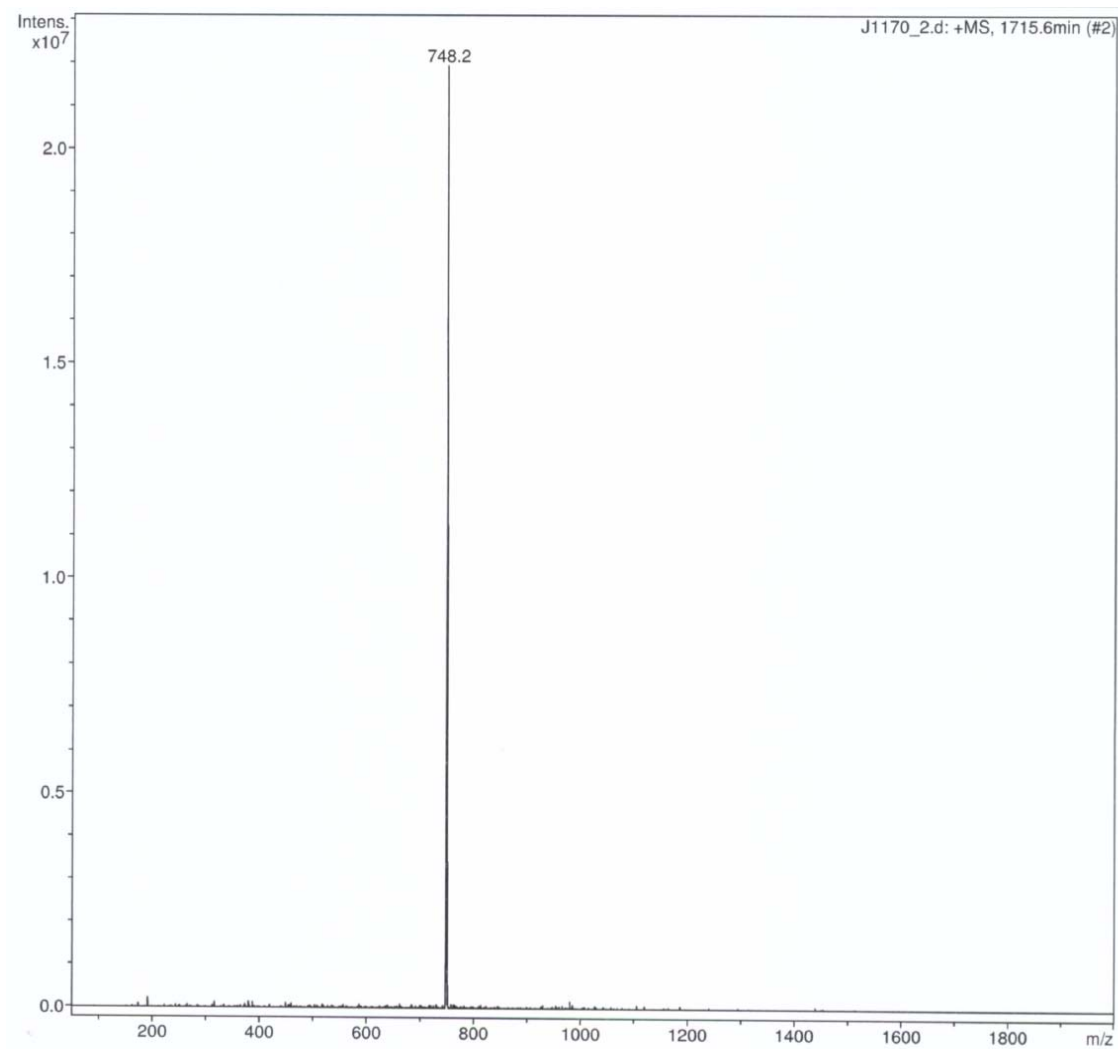
Figure S4. ESI-MS of FE-TDPEO (**2**) in CDCl_3 .

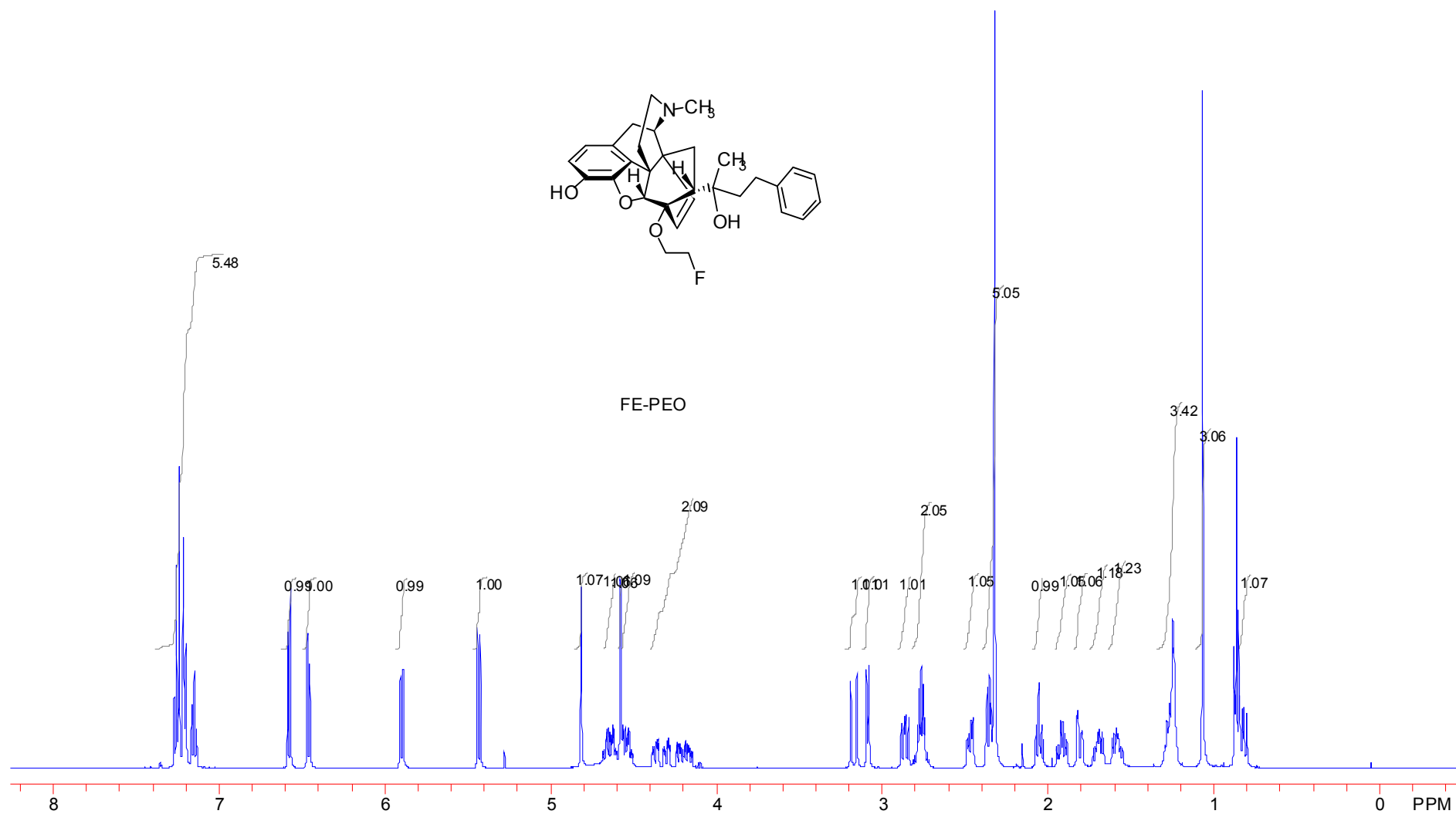
Figure S5. ^1H -NMR spectrum of FE-PEO (**3**) in CDCl_3 .

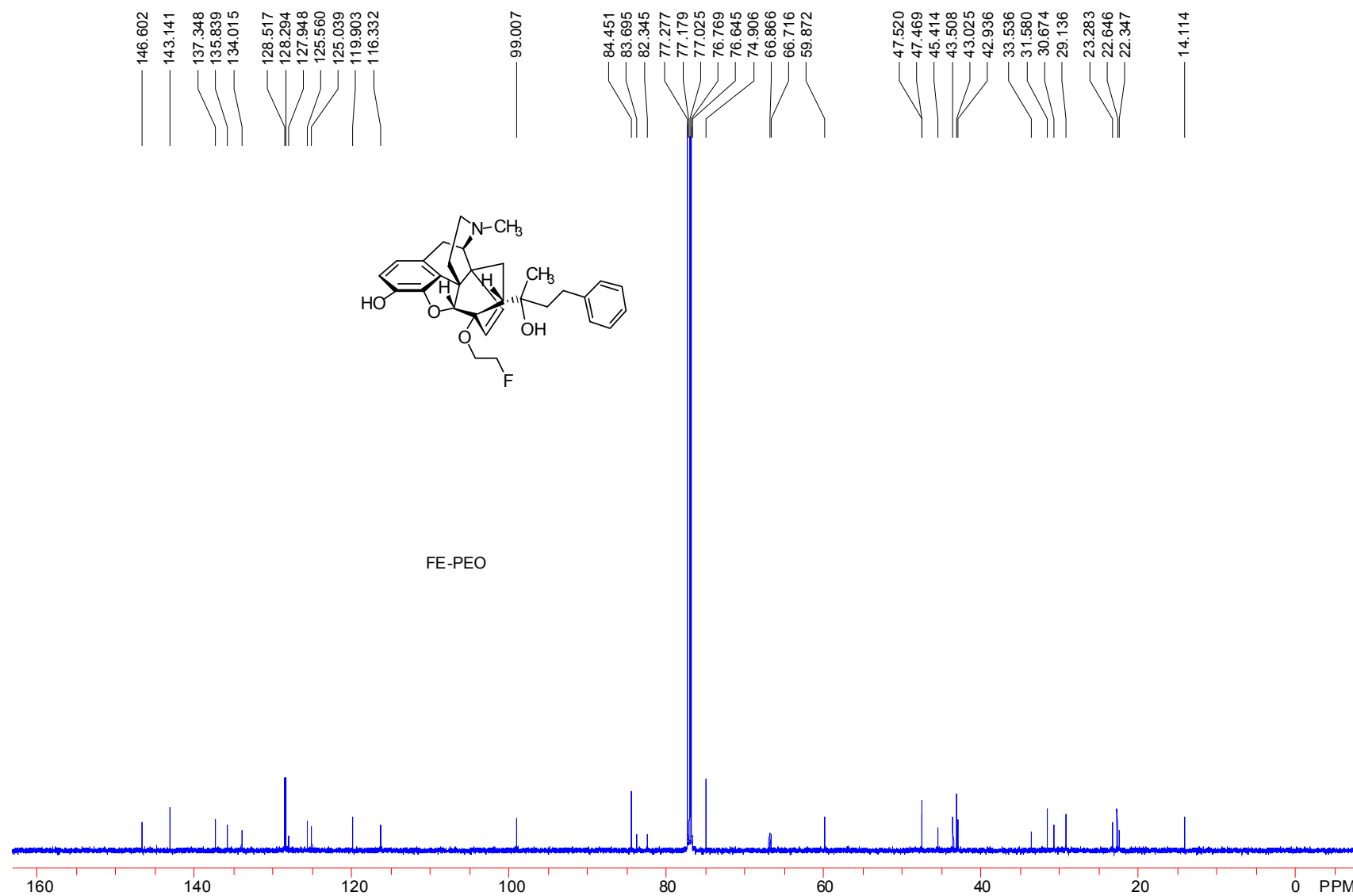
Figure S6. ^{13}C -NMR spectrum of FE-PEO (**3**) in CDCl_3 .

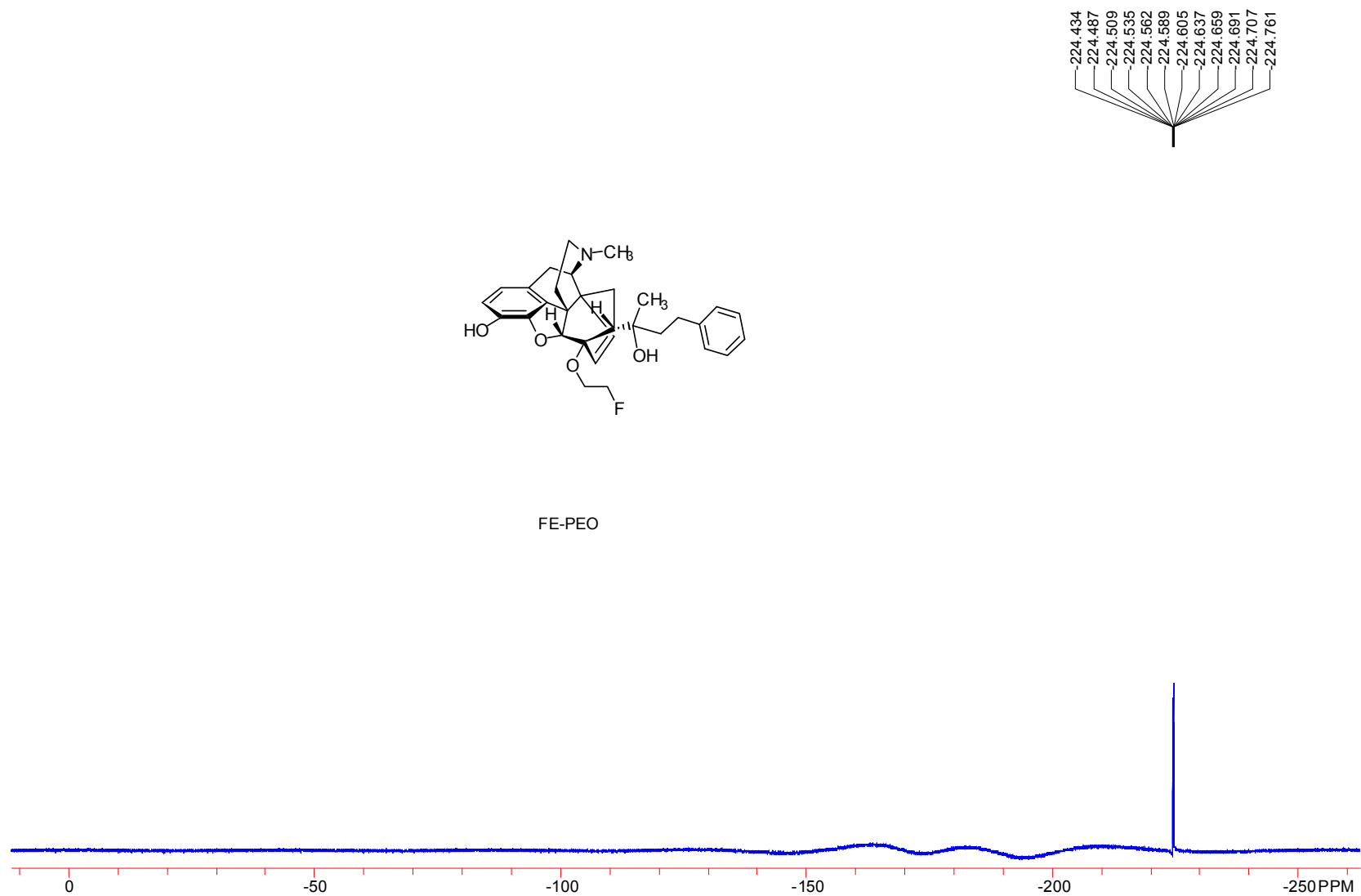
Figure S7. ^{19}F -NMR spectrum of FE-PEO (**3**) in CDCl_3 .

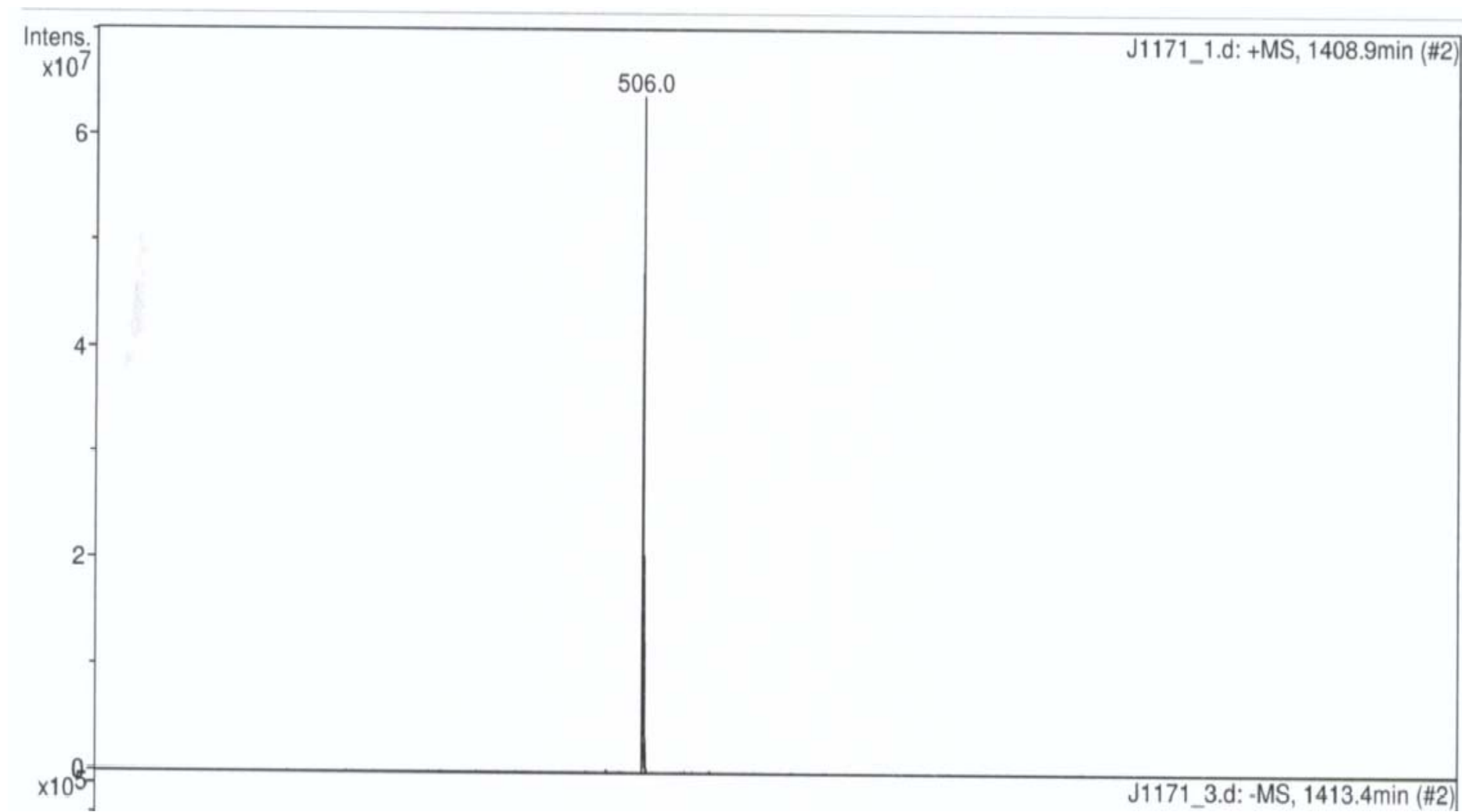
Figure S8. ESI-MS of FE-PEO (3).

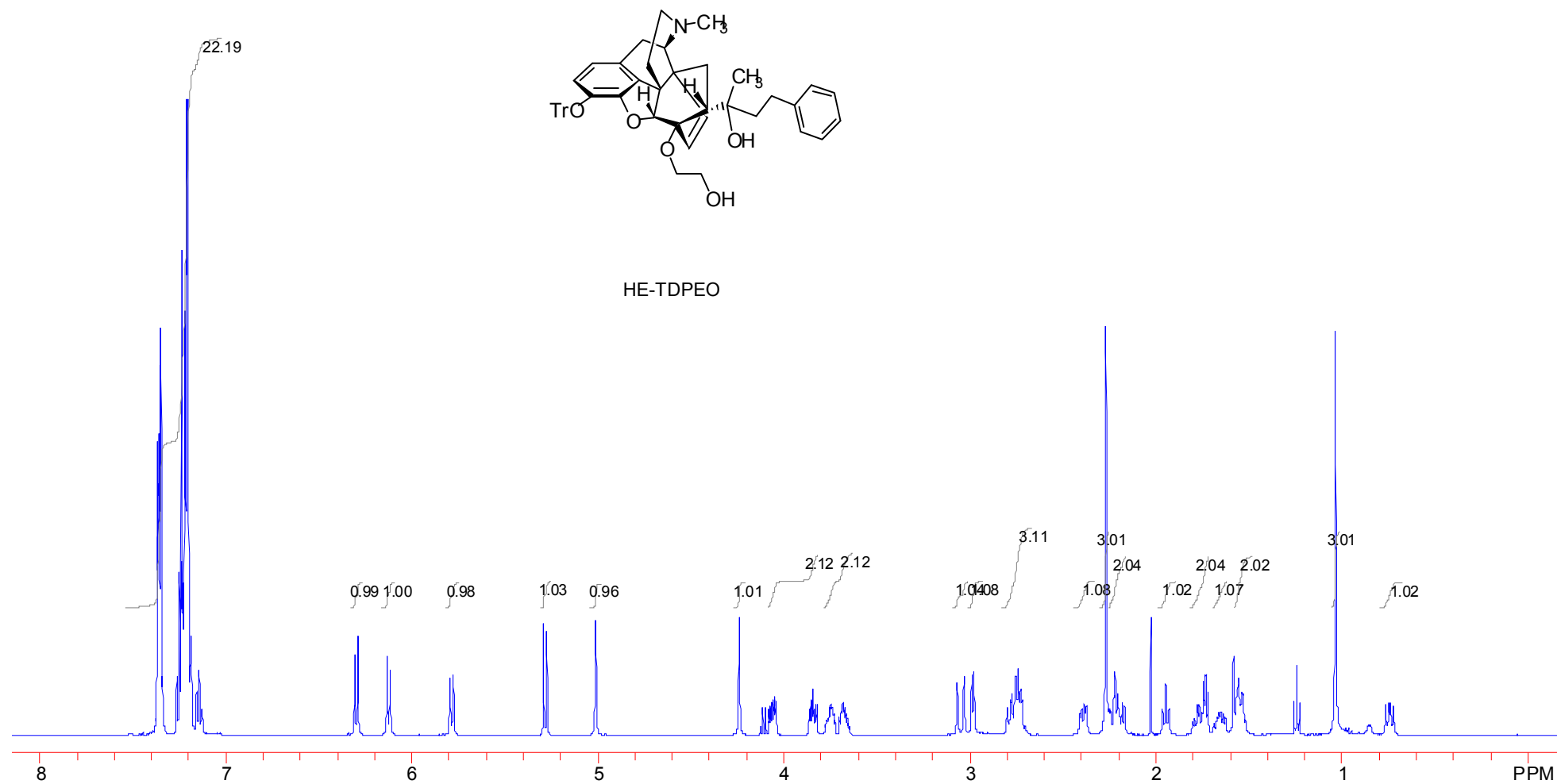
Figure S9. ^1H -NMR spectrum of HE-TDPEO (**4**) in CDCl_3 .

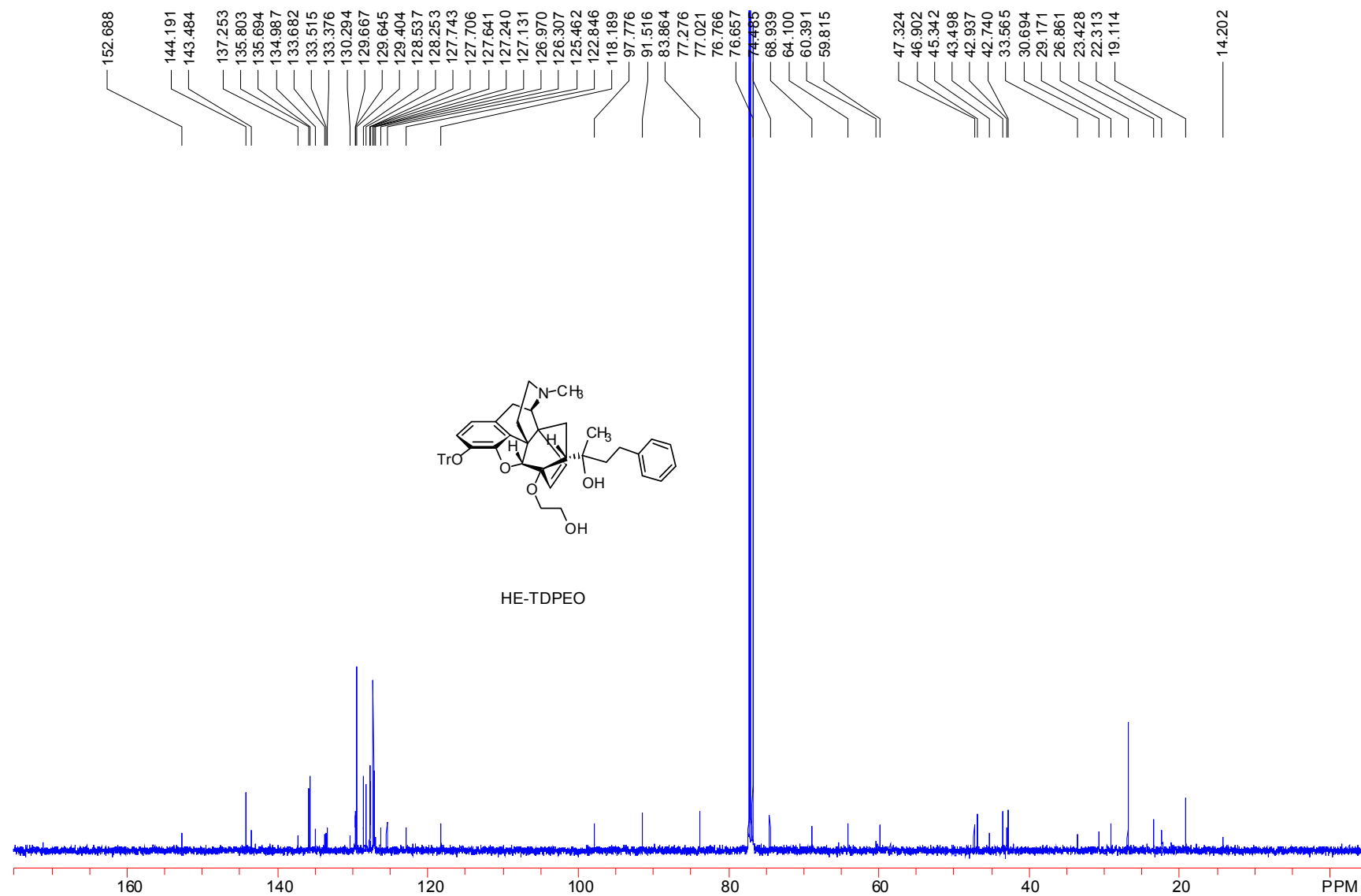
Figure S10. ^{13}C -NMR spectrum of HE-TDPEO (4) in CDCl_3 .

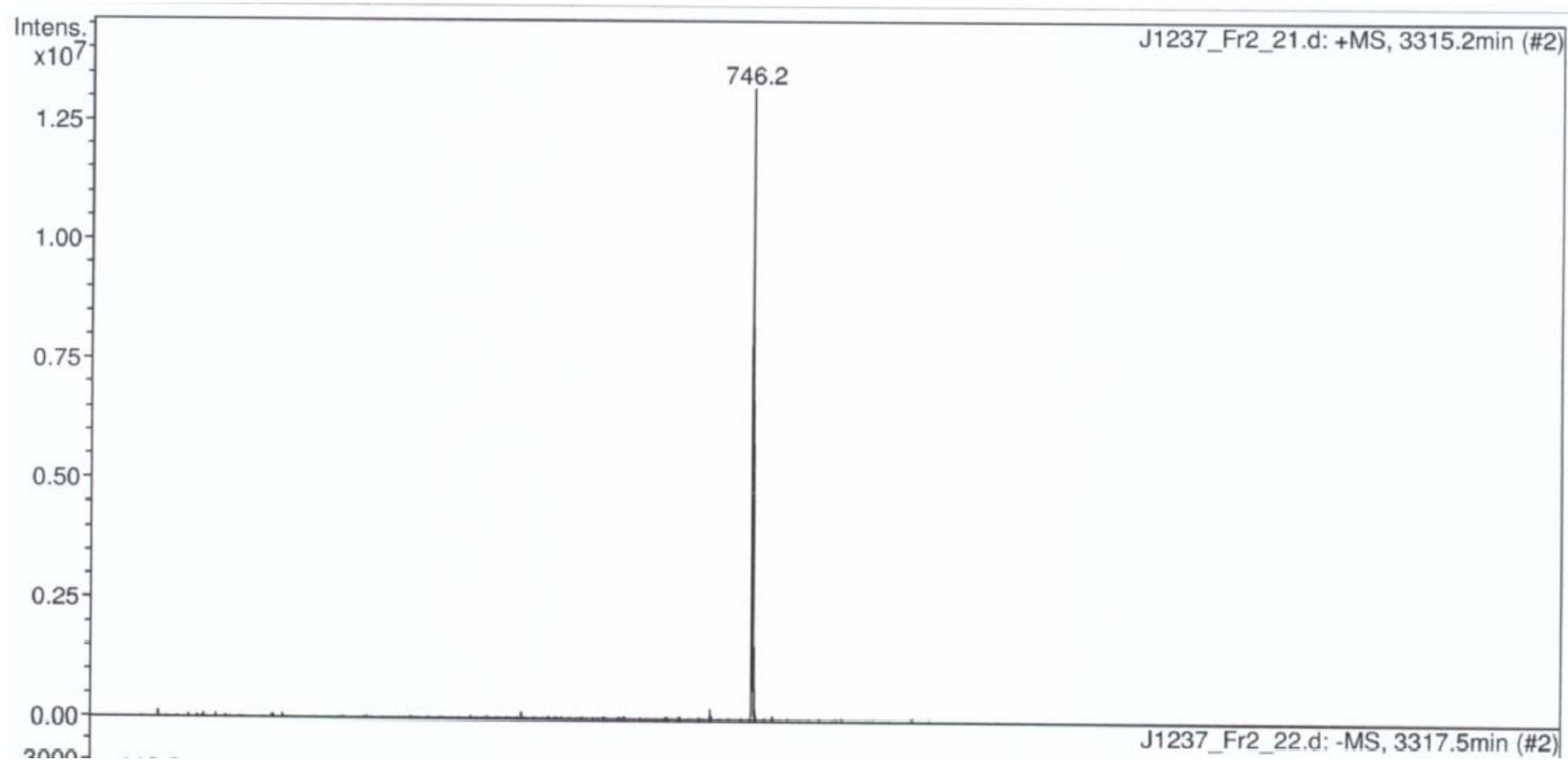
Figure S11. ESI-MS of HE-TDPEO (4).

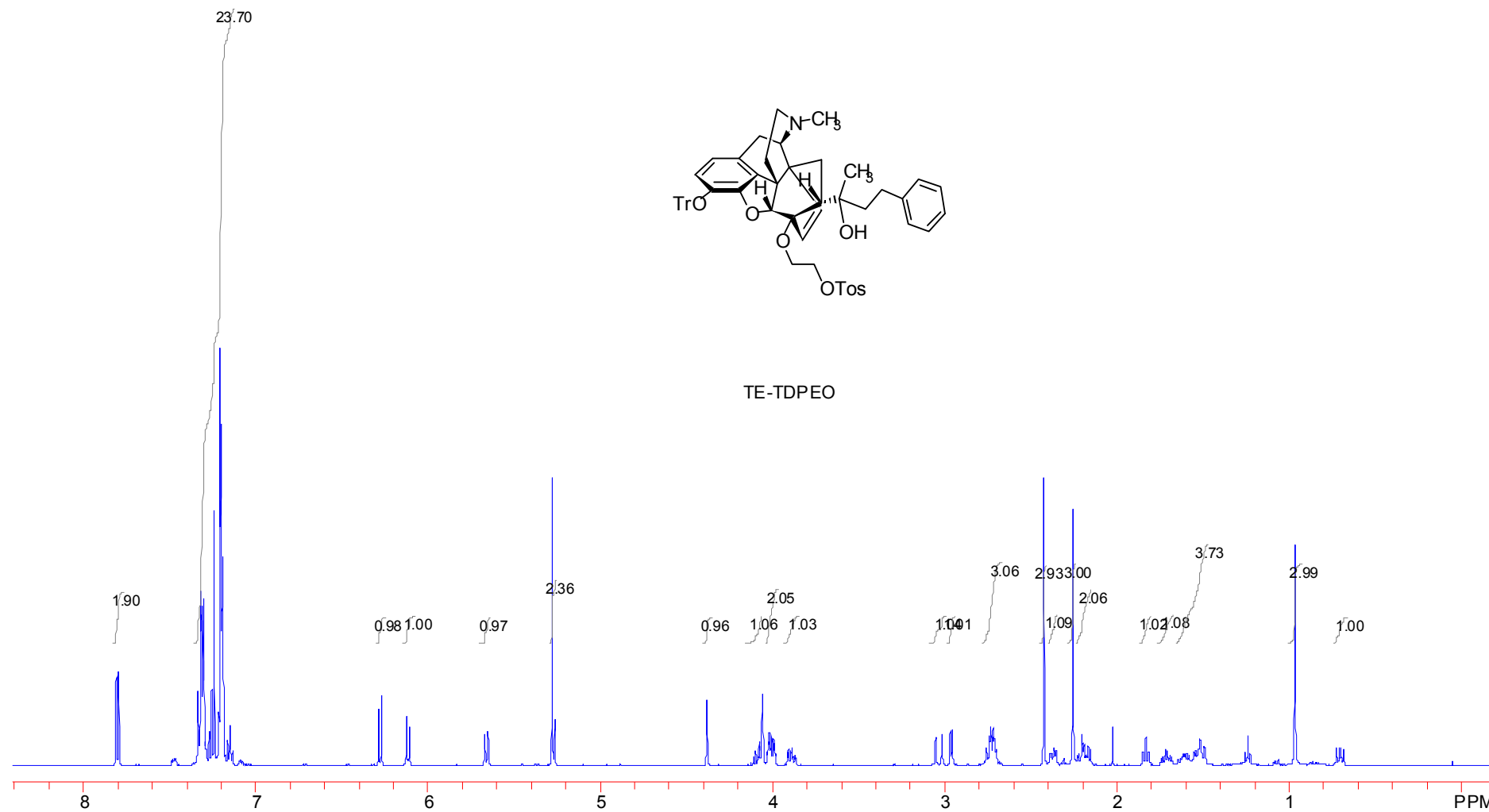
Figure S12. ^1H -NMR spectrum of TE-TDPEO (**5**) in CDCl_3 .

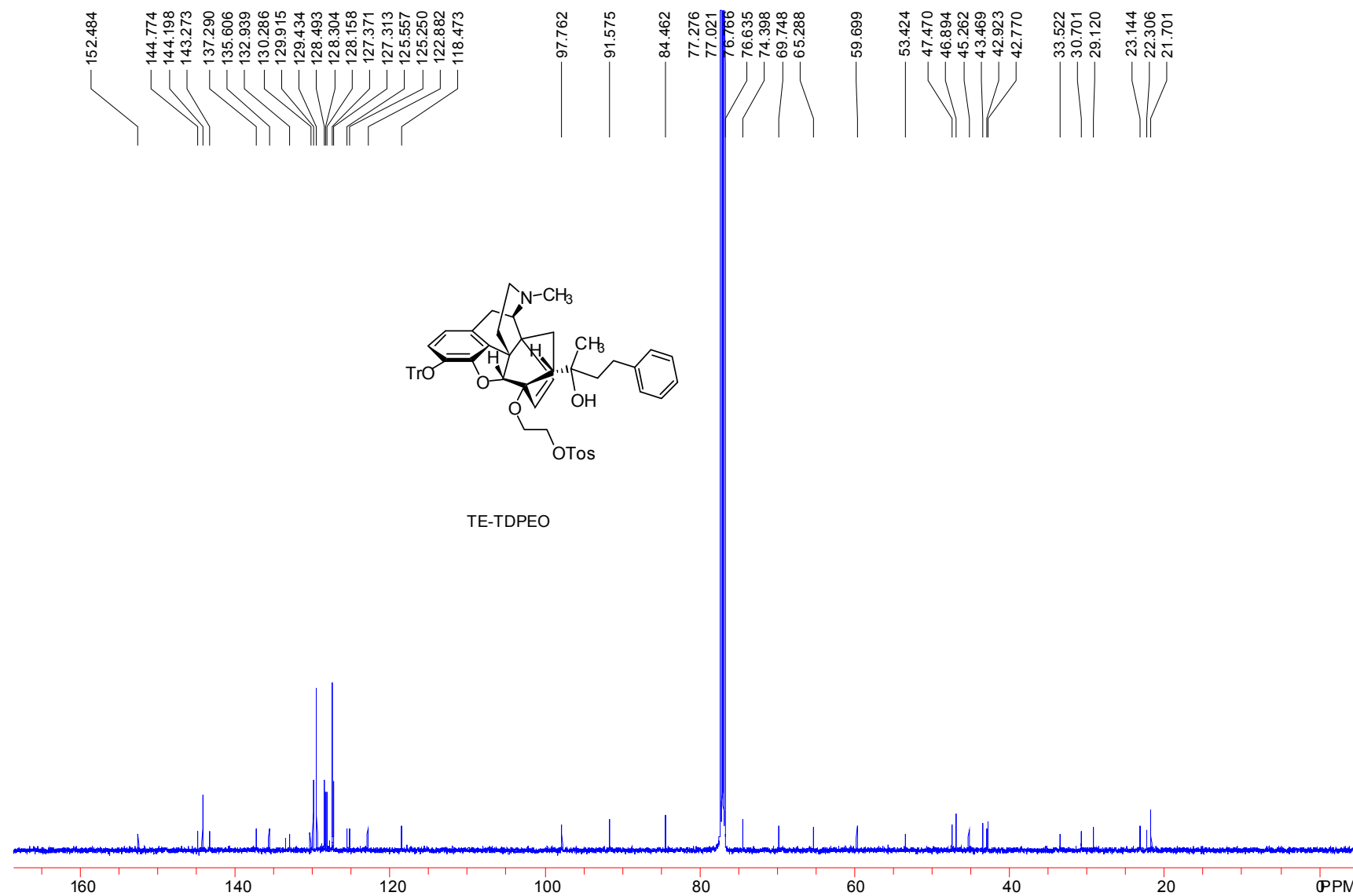
Figure S13. ^{13}C -NMR spectrum of TE-TDPEO (**5**) in CDCl_3 

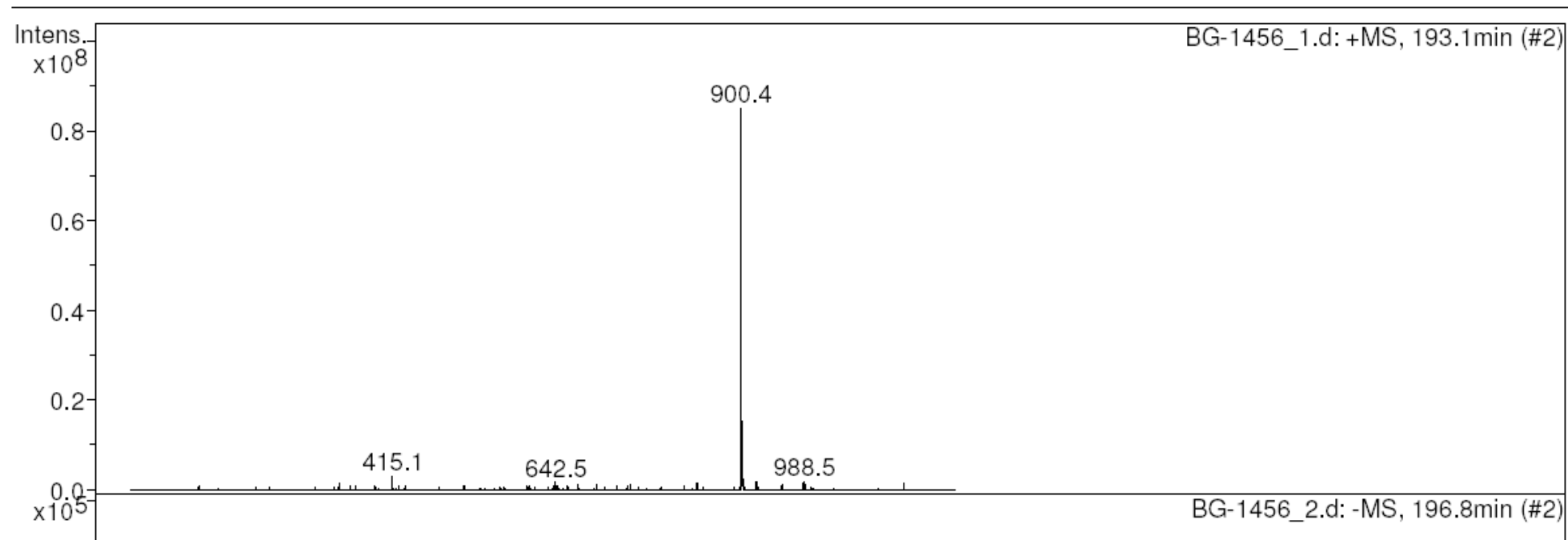
Figure S14. ESI-MS of TE-TDPEO (5).

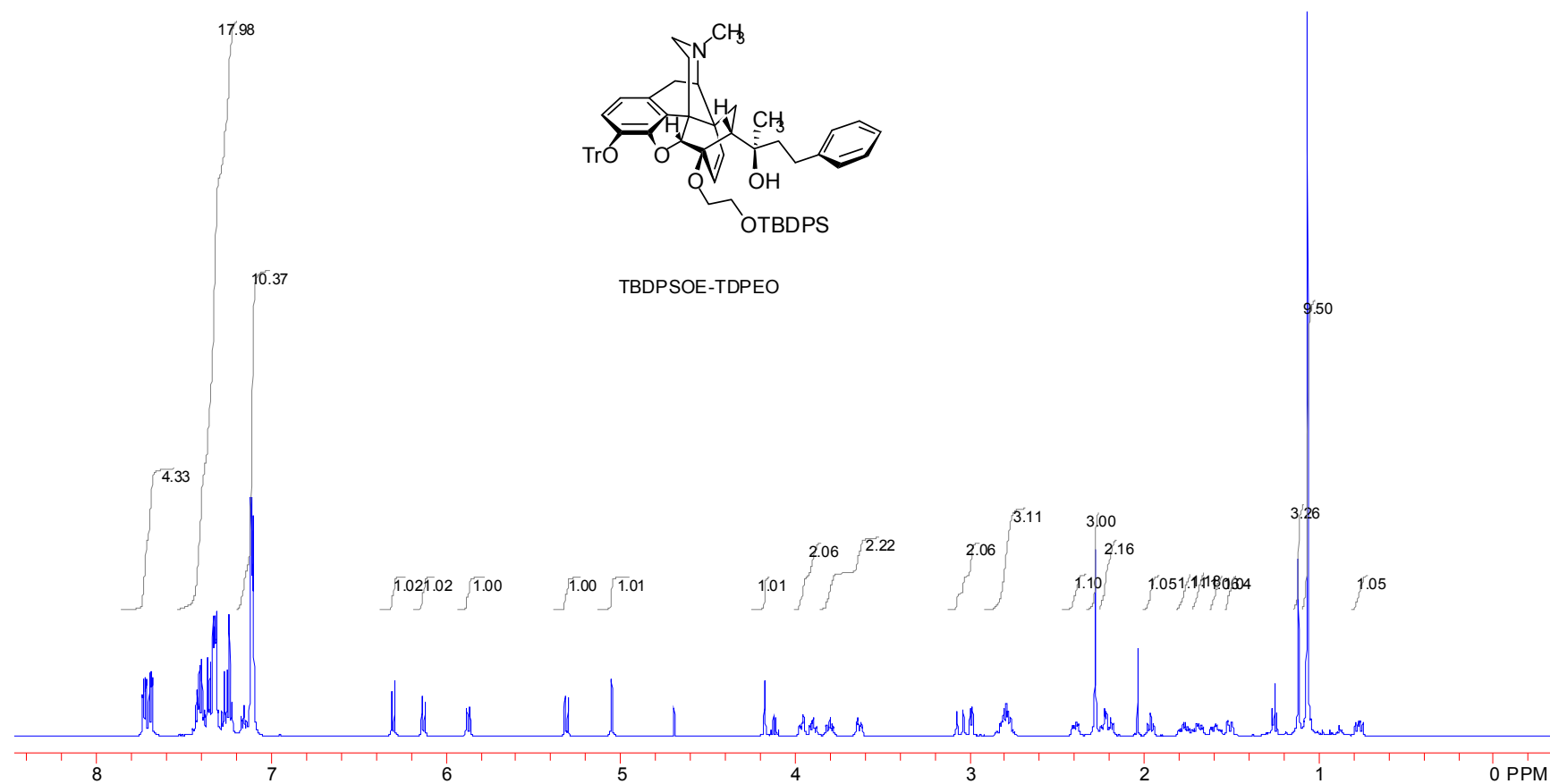
Figure S15. ^1H -NMR spectrum of TBDPSOE-TDPEO (**6**) in CHCl_3 .

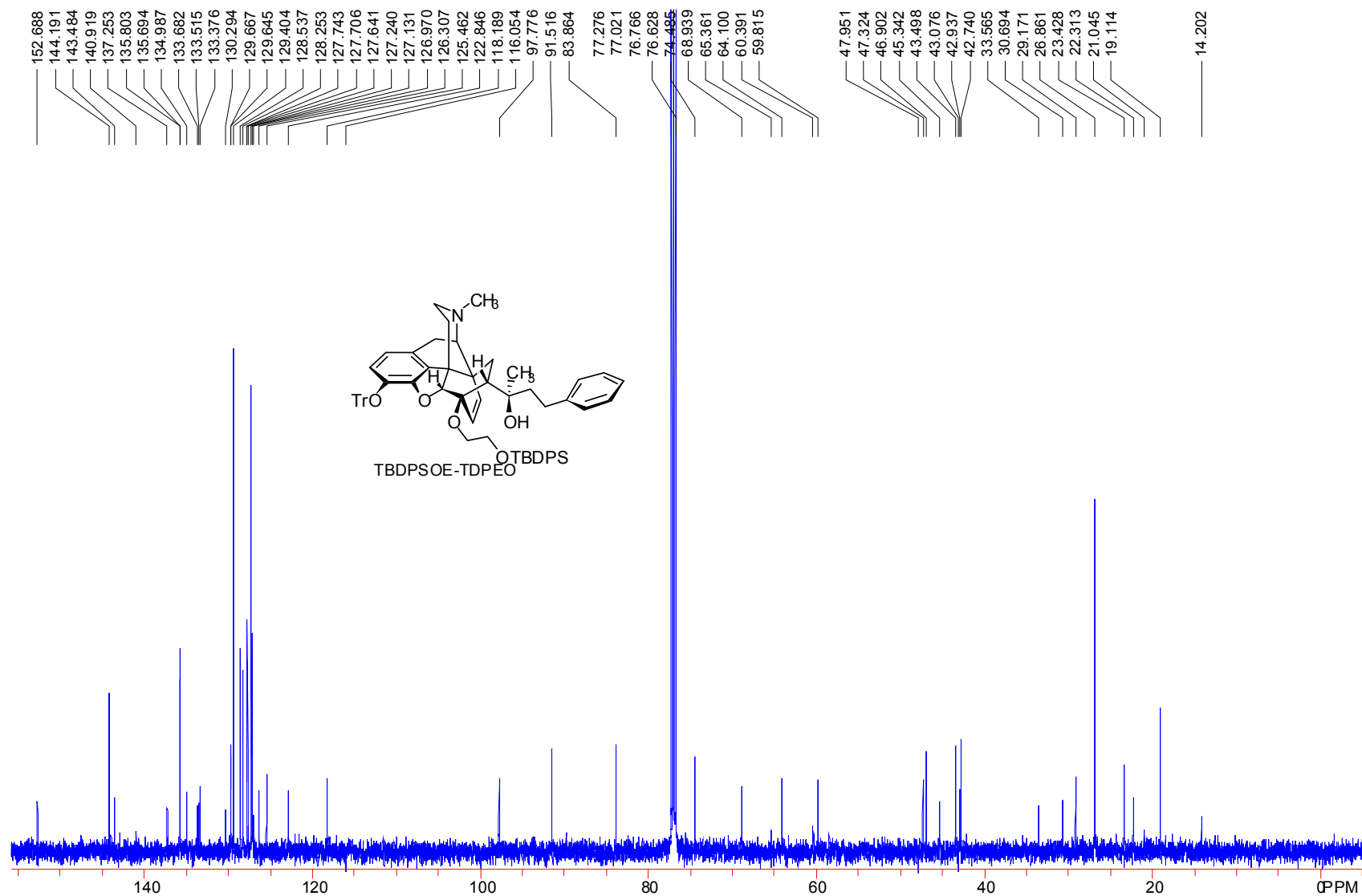
Figure S16. ^{13}C -NMR spectrum of TBDPSOE-TDPEO (**6**) in CDCl_3 .

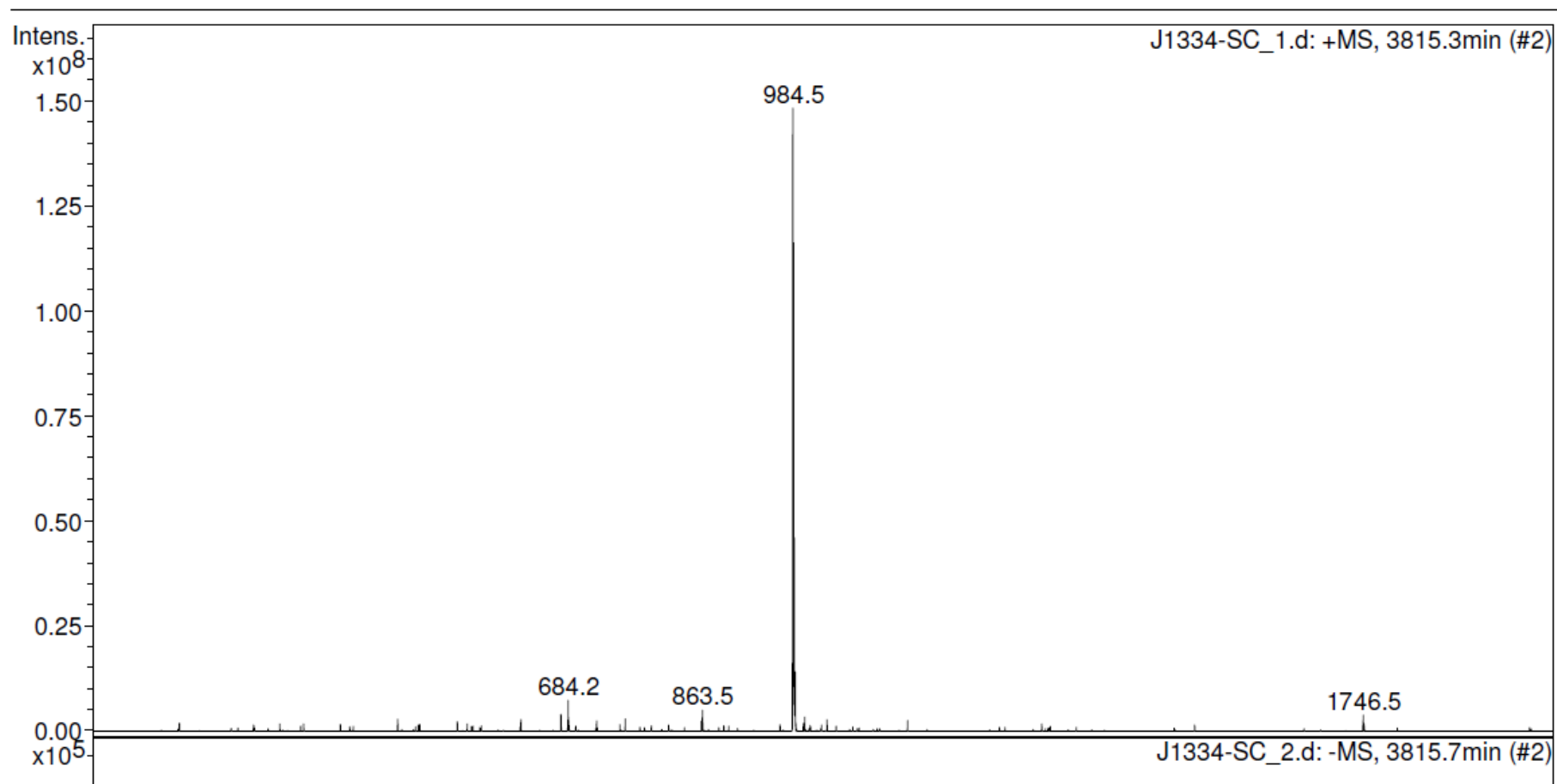
Figure S17. ESI-MS of TBDPSOE -TDPEO (6).

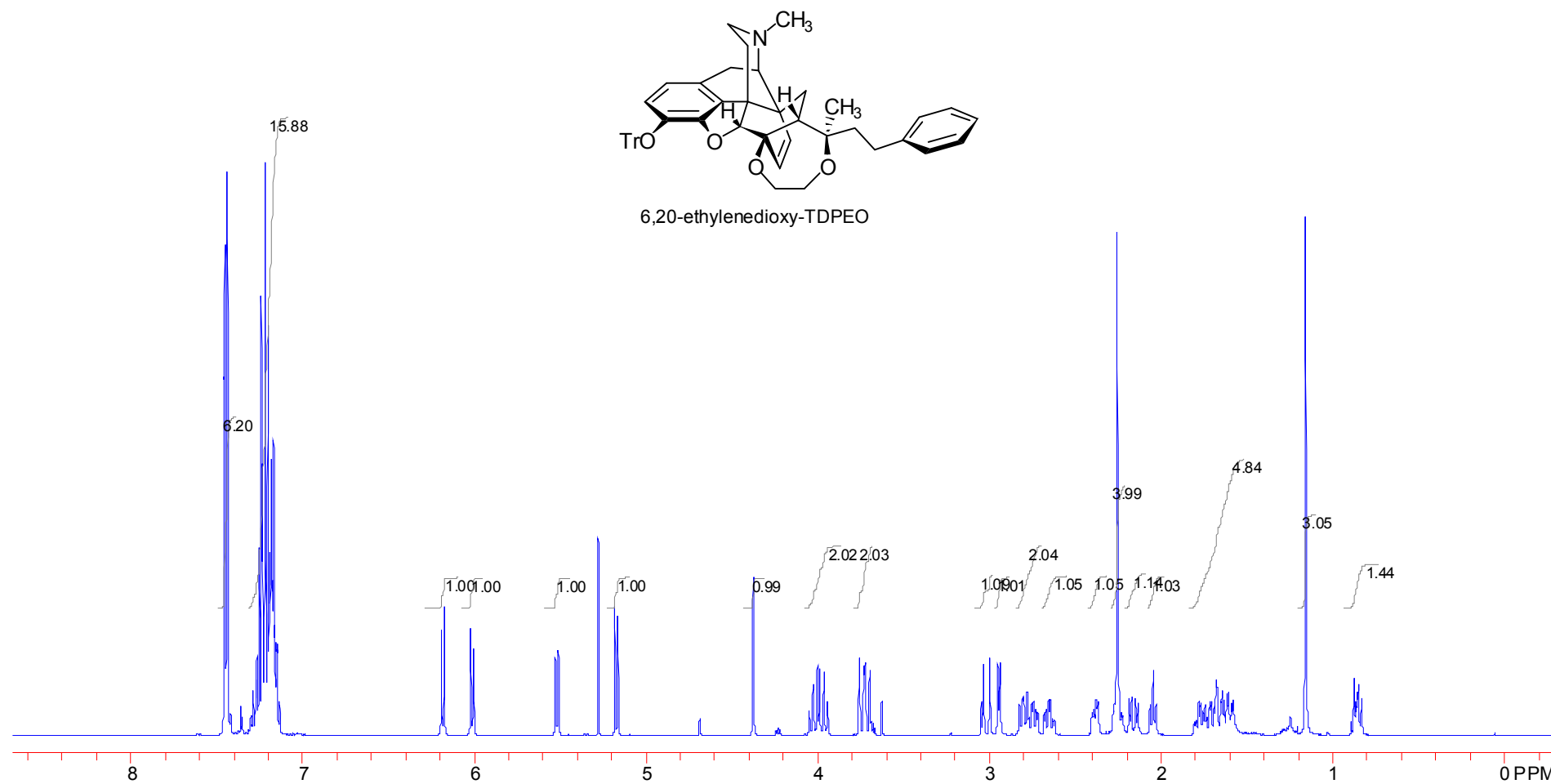
Figure S18. ^1H -NMR spectrum of 6,20-ethylenedioxy-TDPEO (**7**) in CDCl_3 .

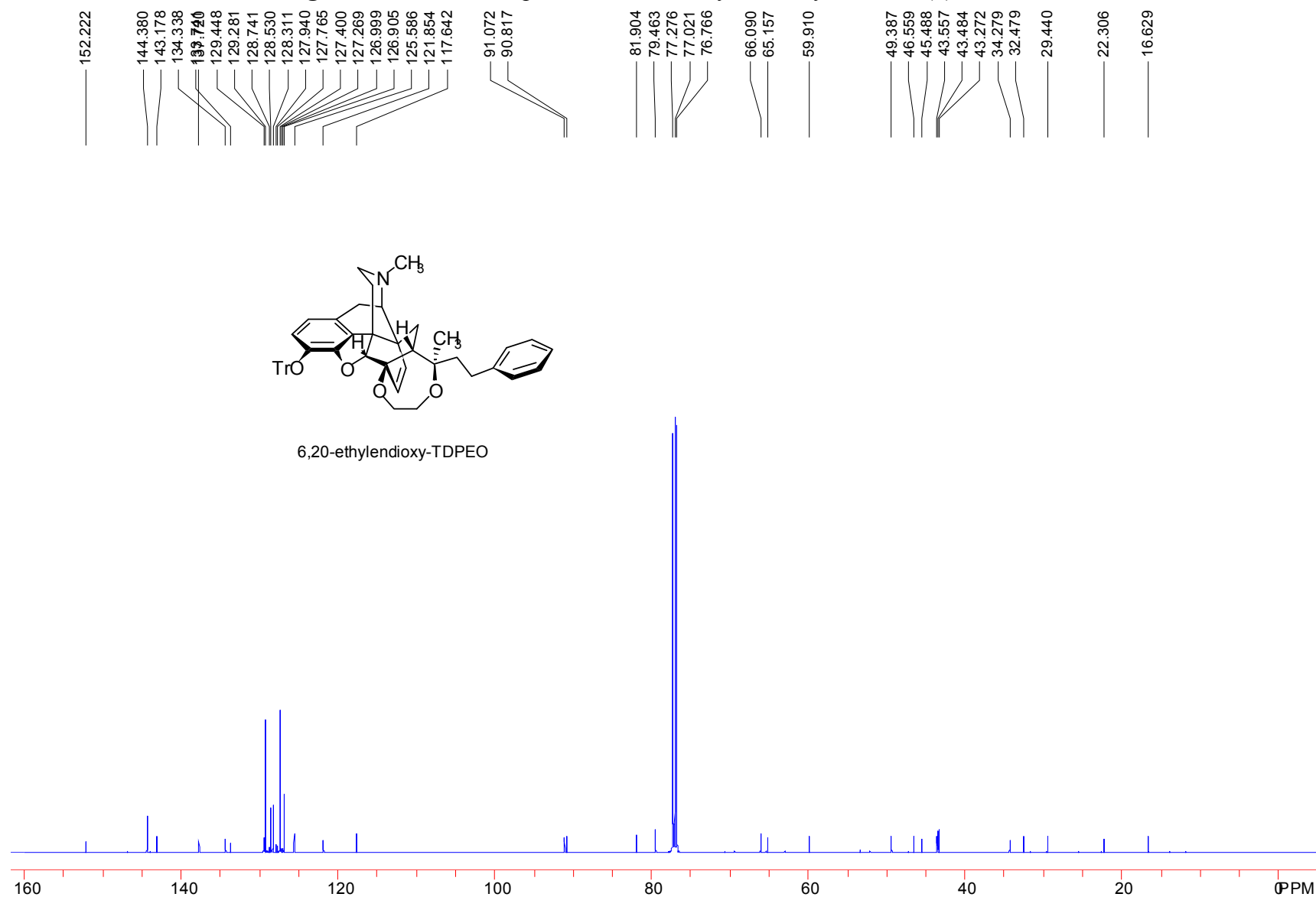
Figure S19. ^{13}C -NMR spectrum of 6,20-ethylenedioxy-TDPEO (**7**) in CDCl_3 .

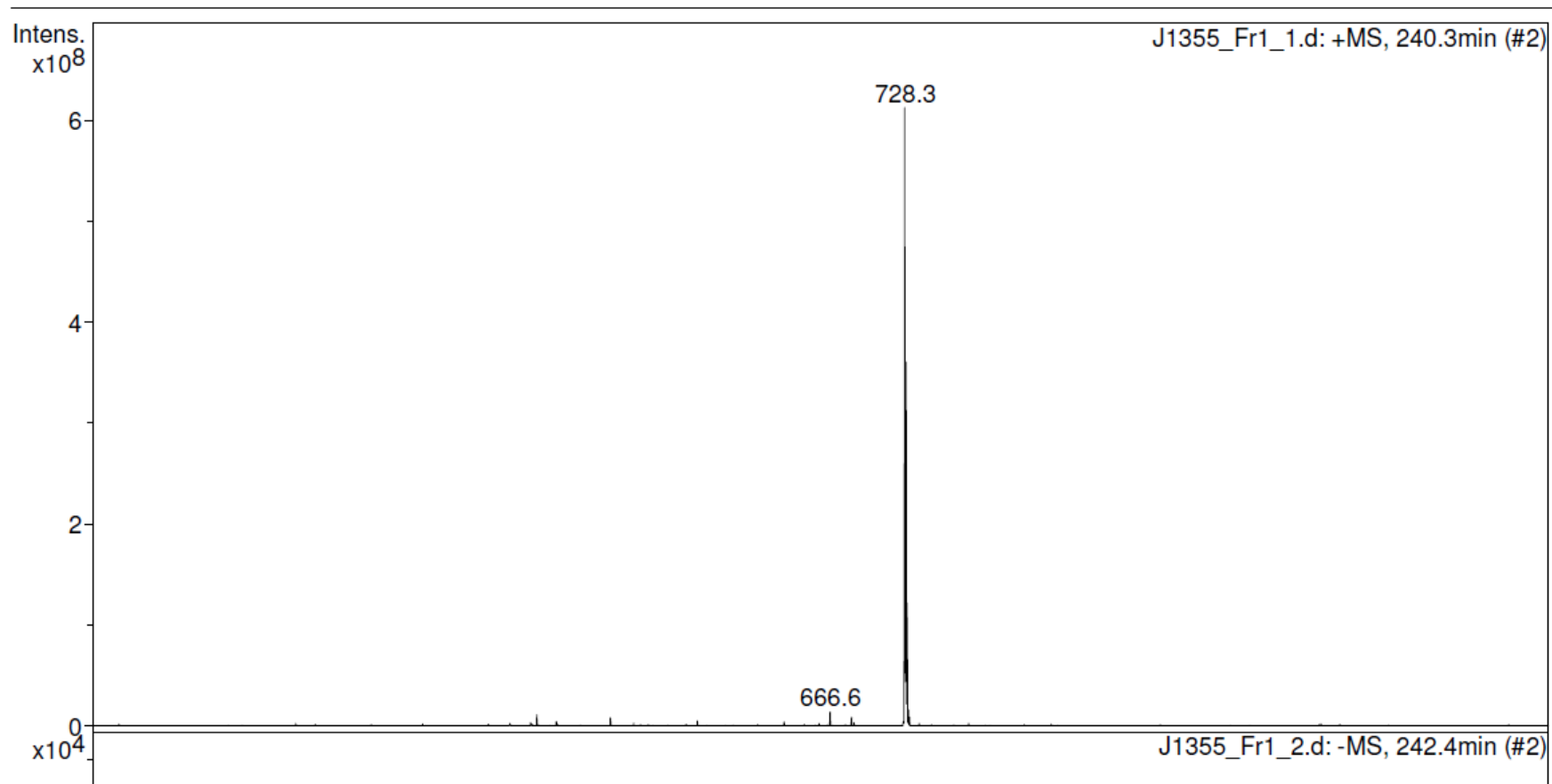
Figure S20. ESI-MS of 6,20-ethylenedioxy -TDPEO (7).

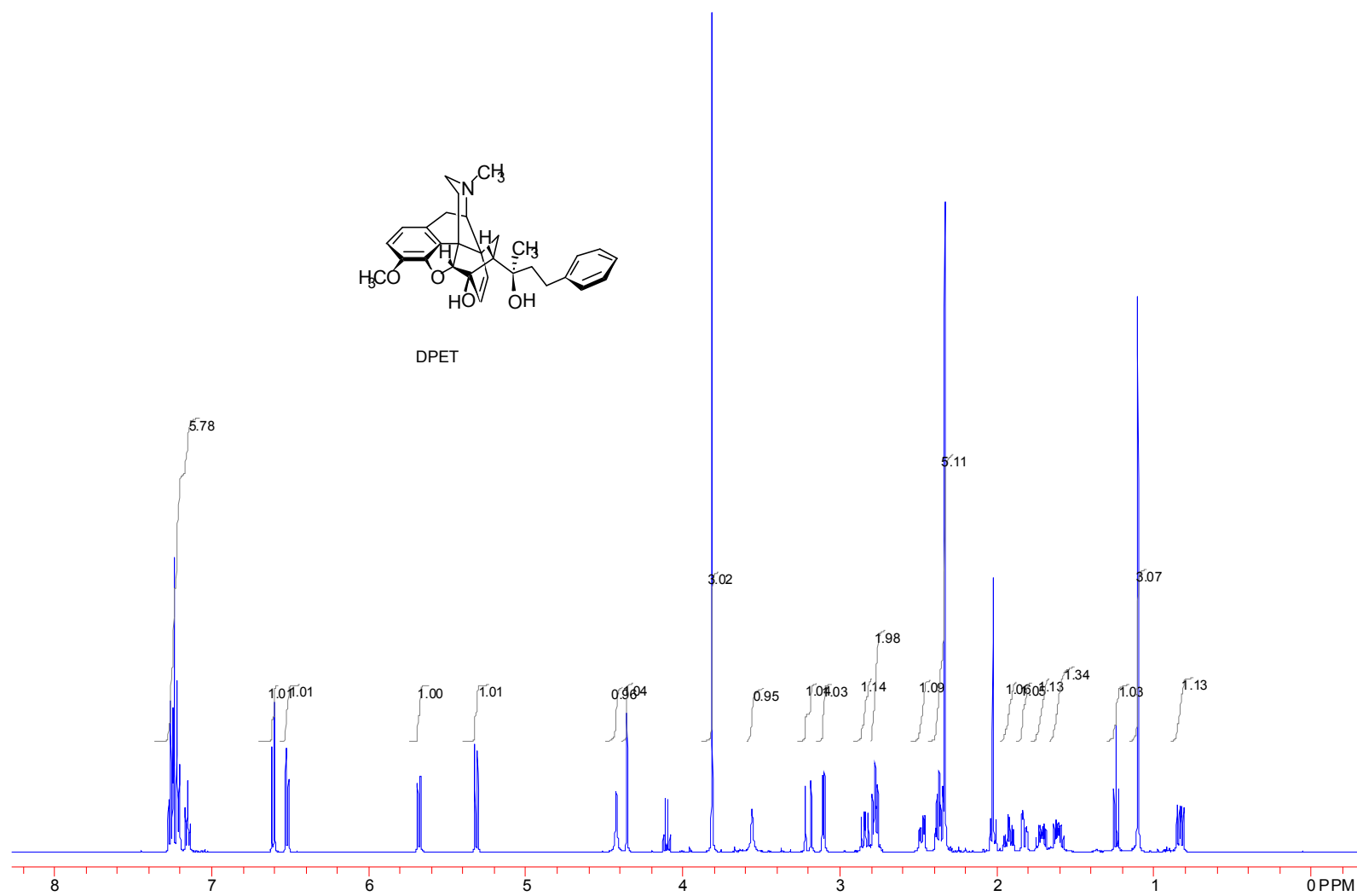
Figure S21. ^1H -NMR spectrum of DPET (**9**) in CDCl_3 .

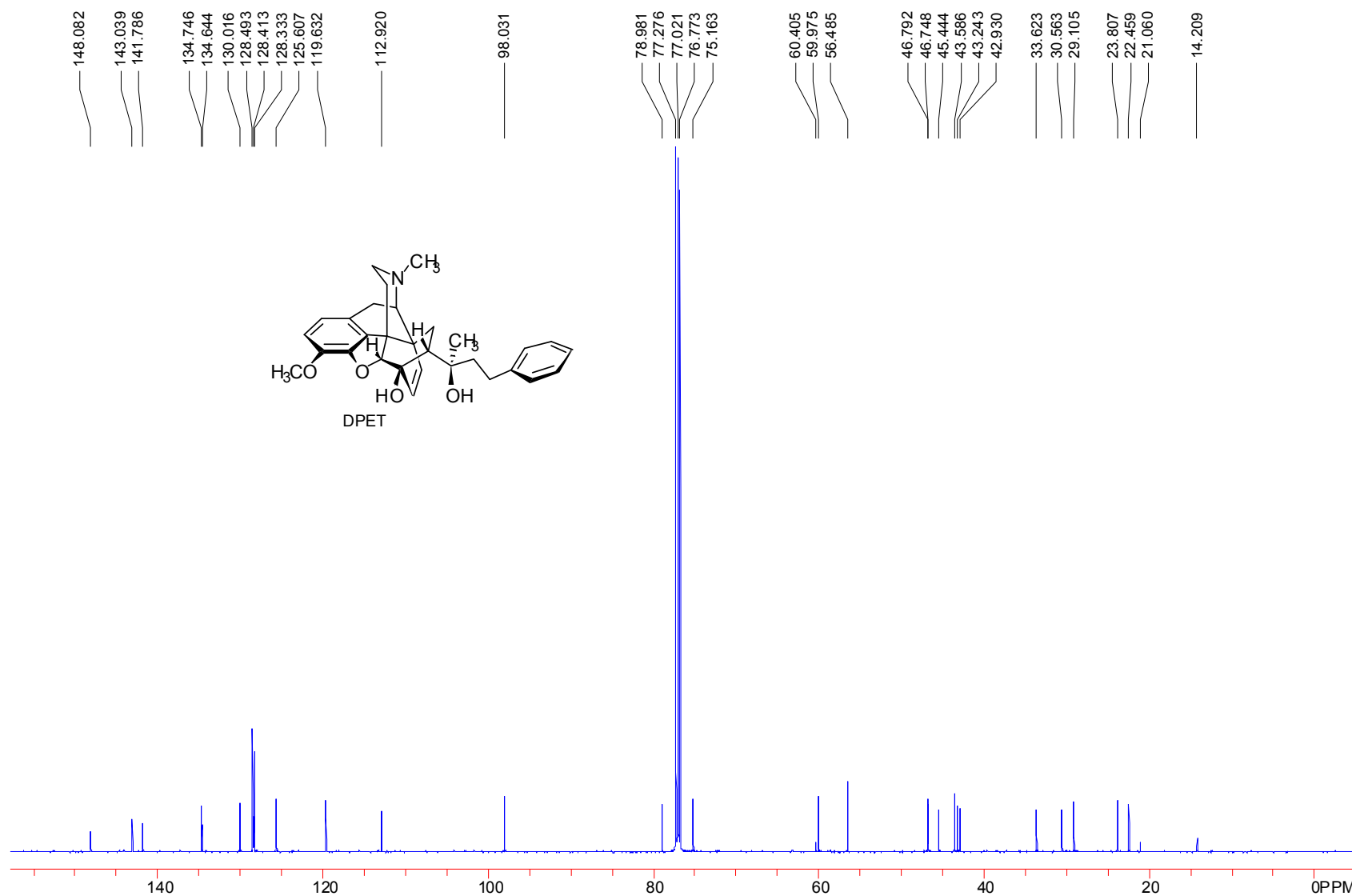
Figure S22. ^{13}C -NMR spectrum of DPET (9) in CDCl_3 .

Figure S23. ESI-MS of DPET (9).

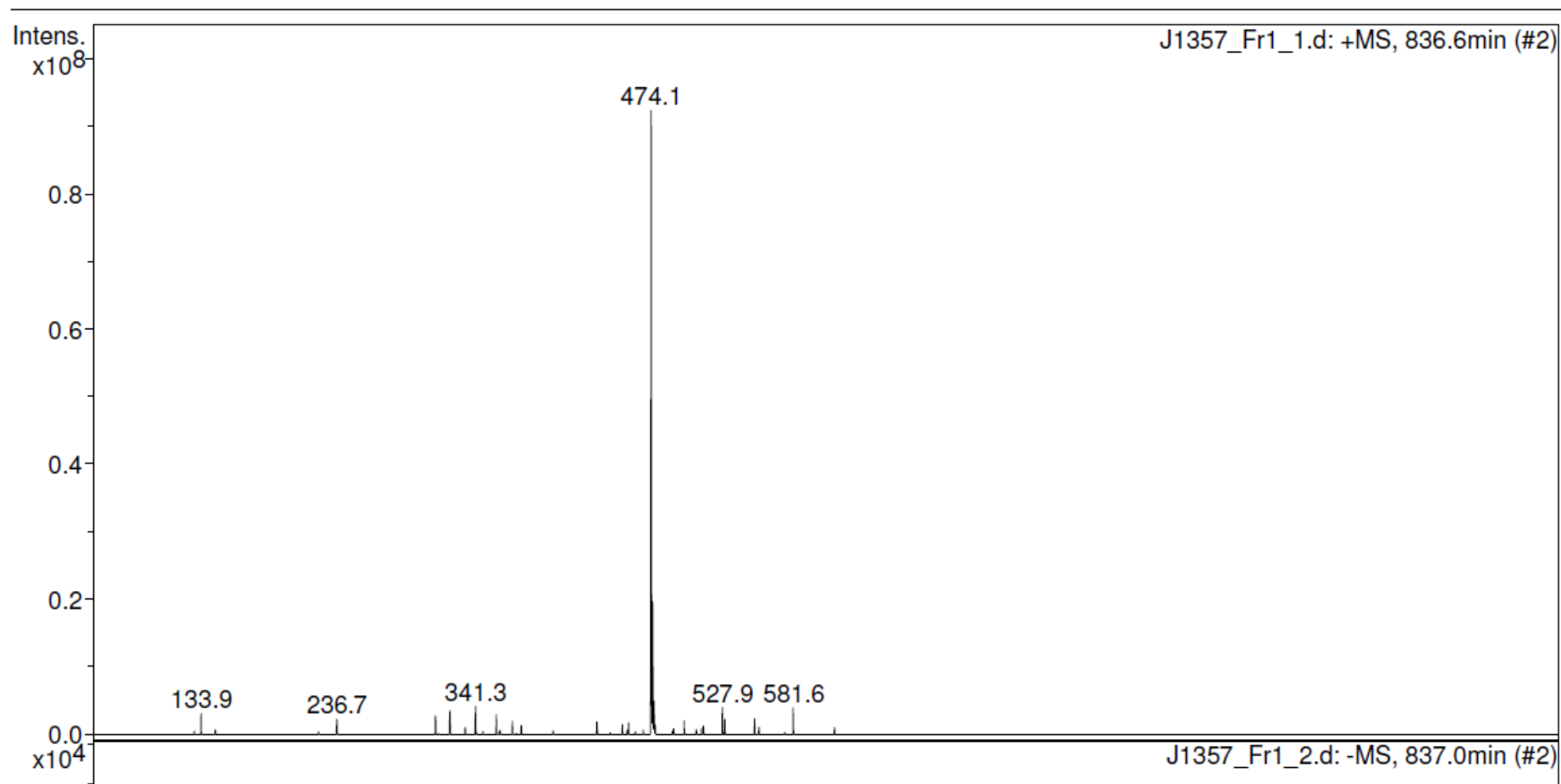


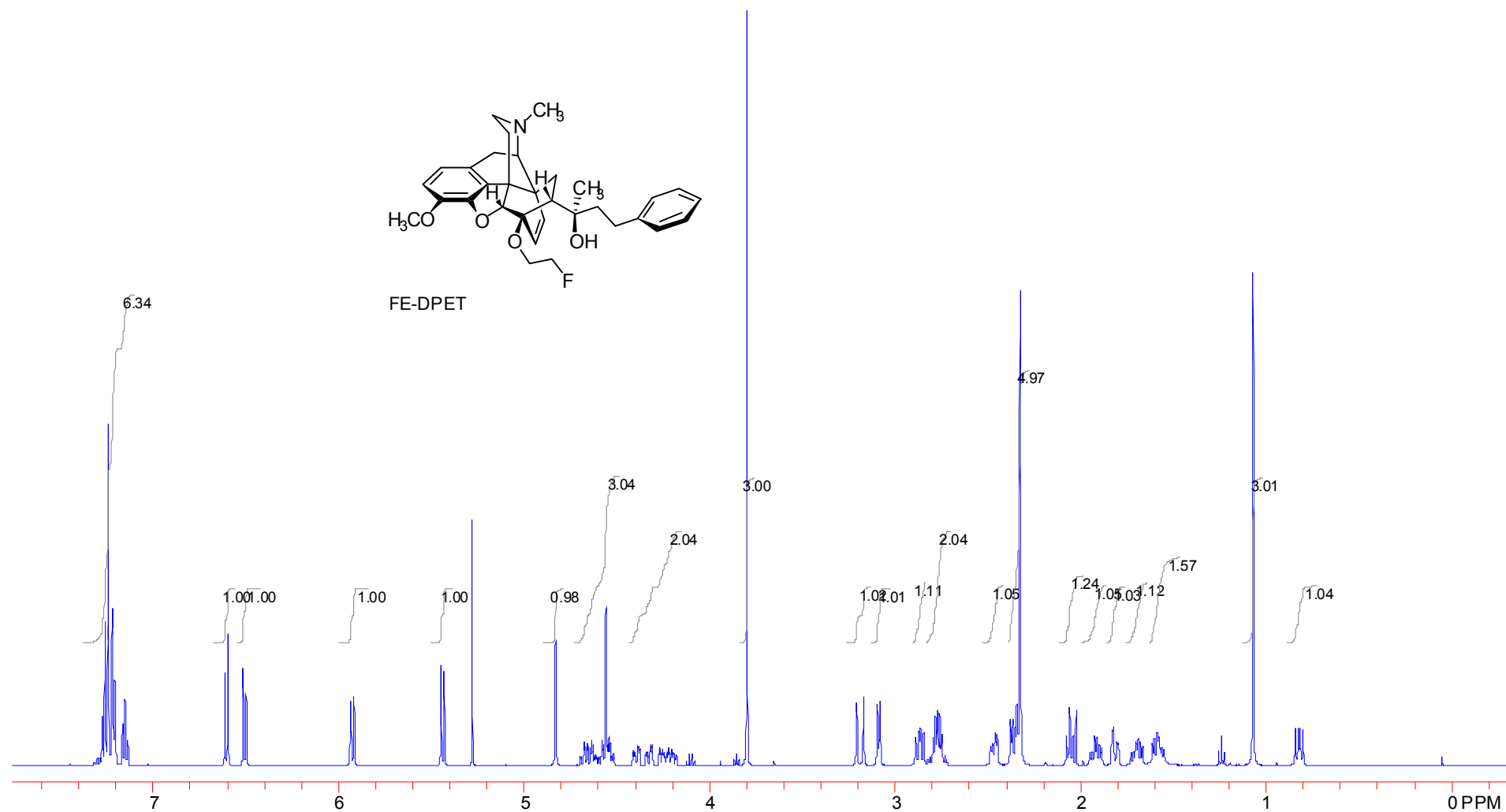
Figure S24. ^1H -NMR spectrum of FE-DPET (10) in CDCl_3 .

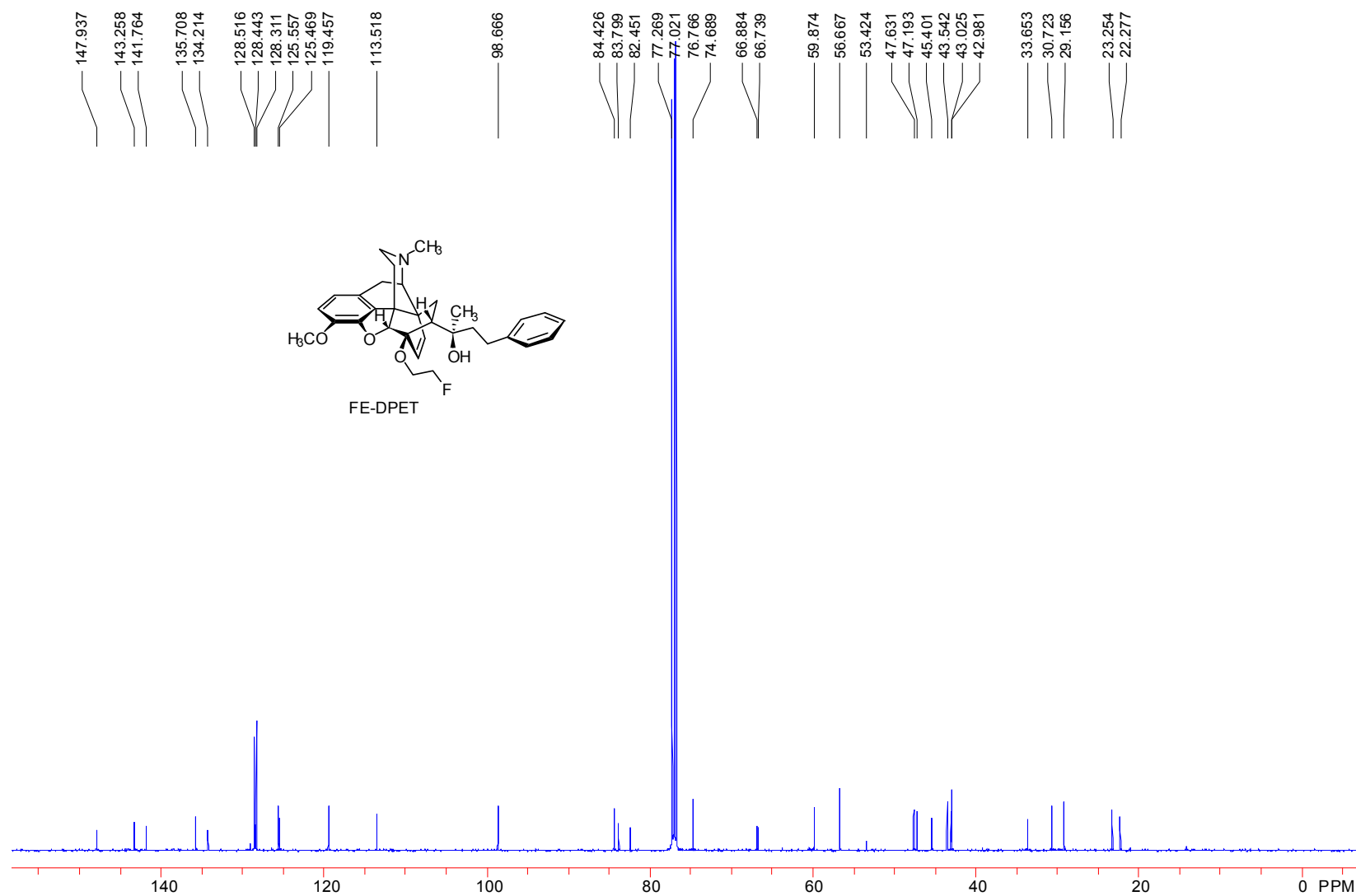
Figure S25. ^{13}C -NMR spectrum of FE-DPET (**10**) in CDCl_3 .

Figure S26. ^{19}F -NMR spectrum of FE-DPET (**10**) in CDCl_3 .

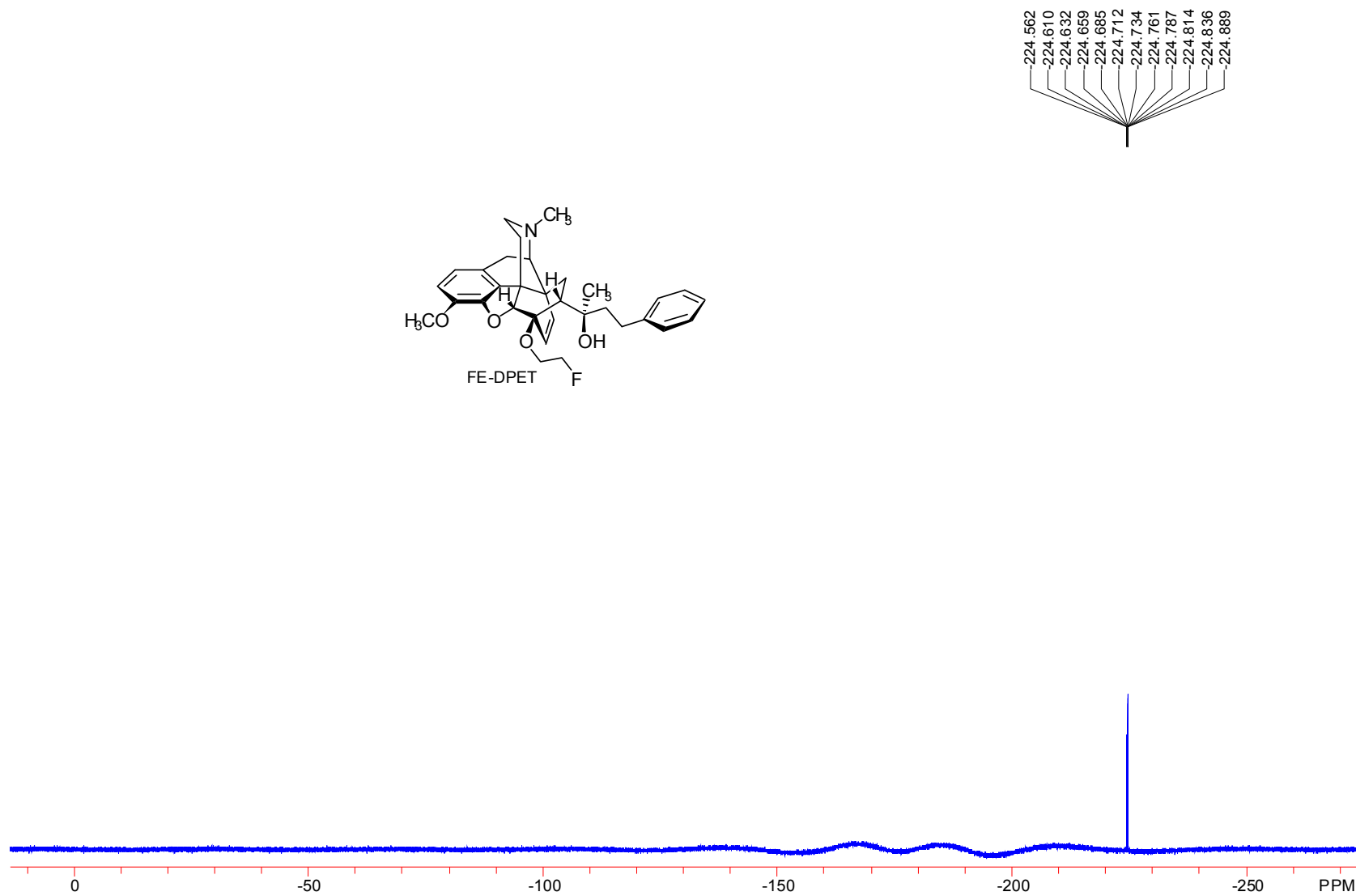


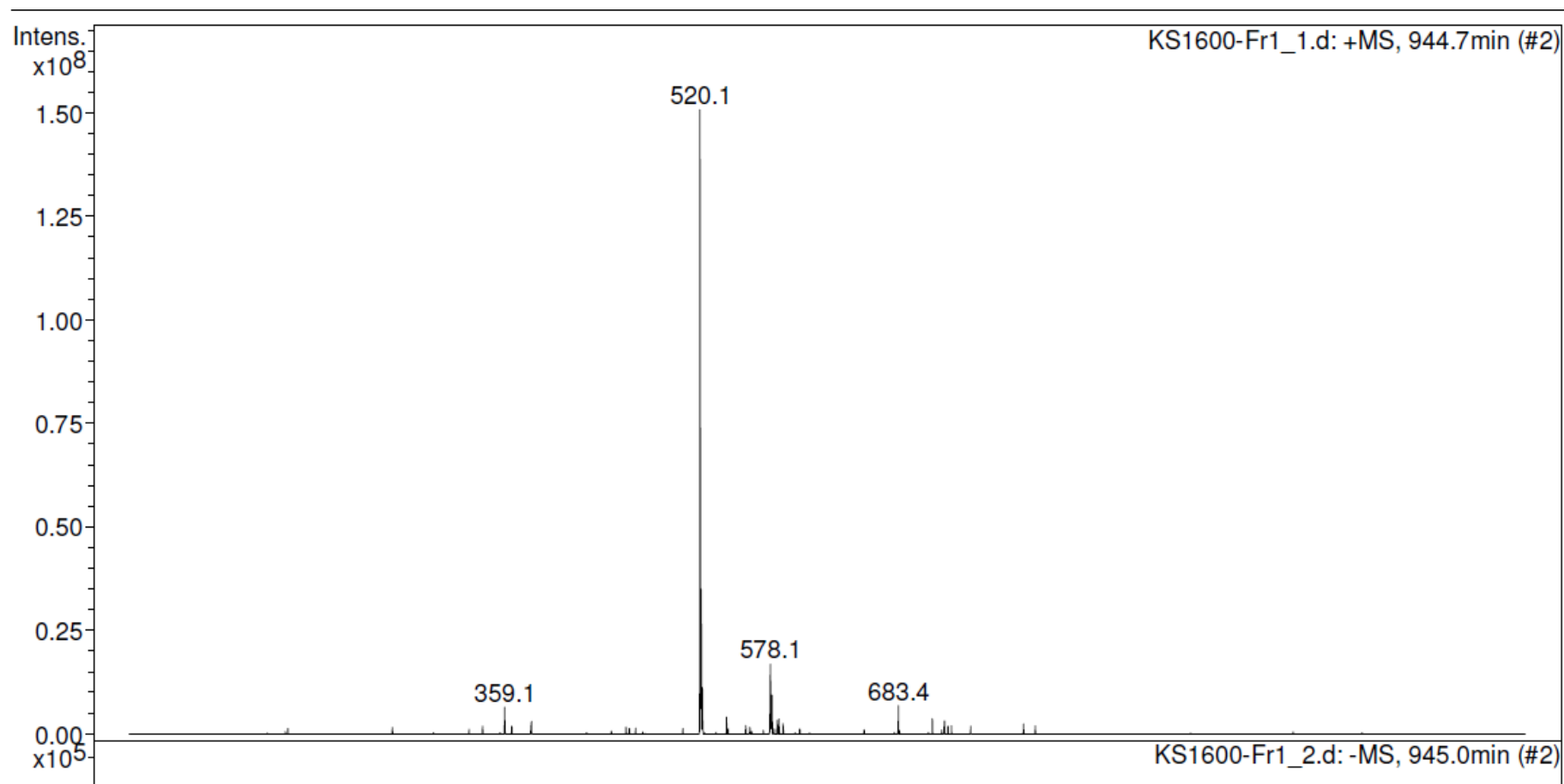
Figure S27. ESI-MS of FE-DPET (10).

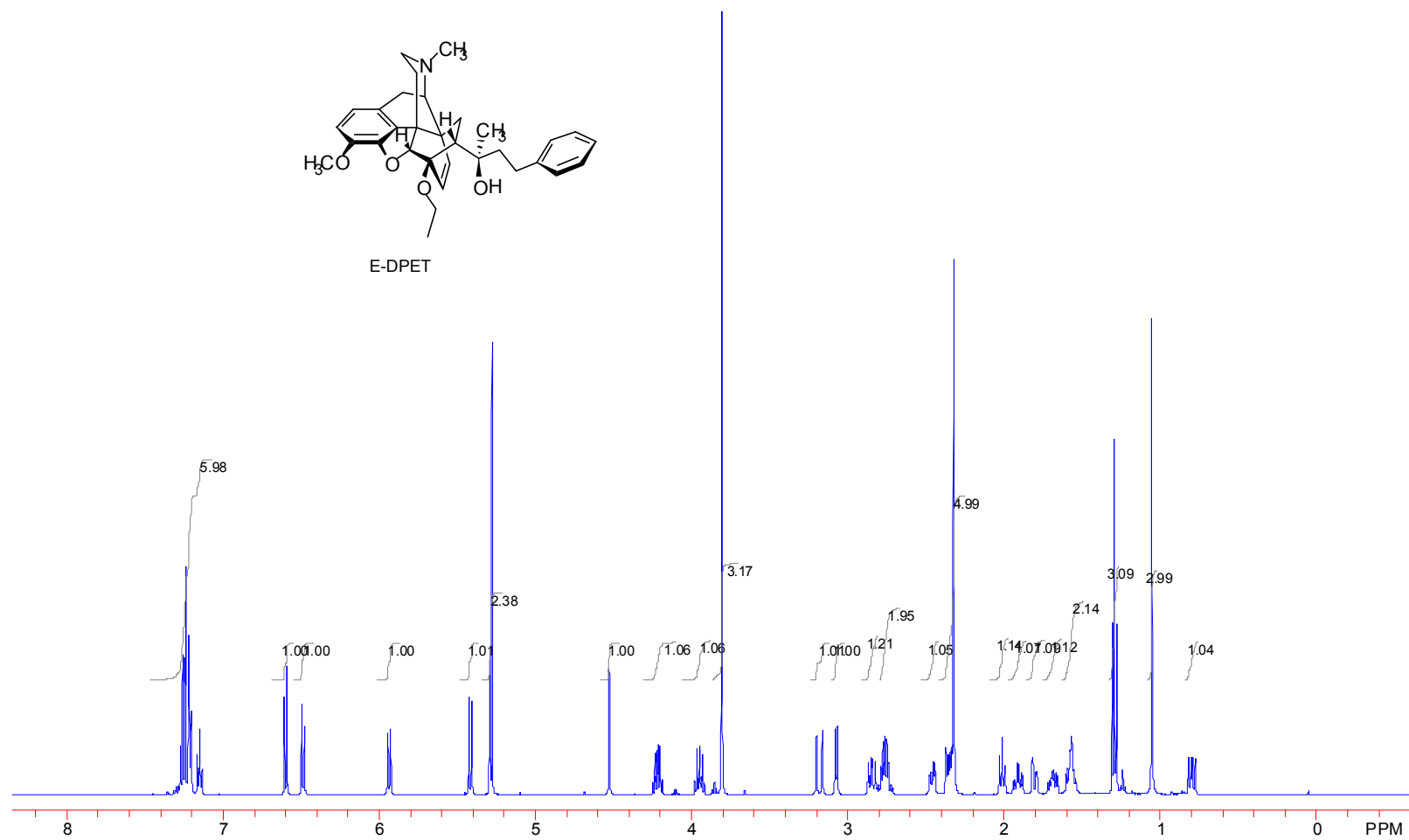
Figure S28. ^1H -NMR spectrum of E-DPET (11) in CDCl_3 .

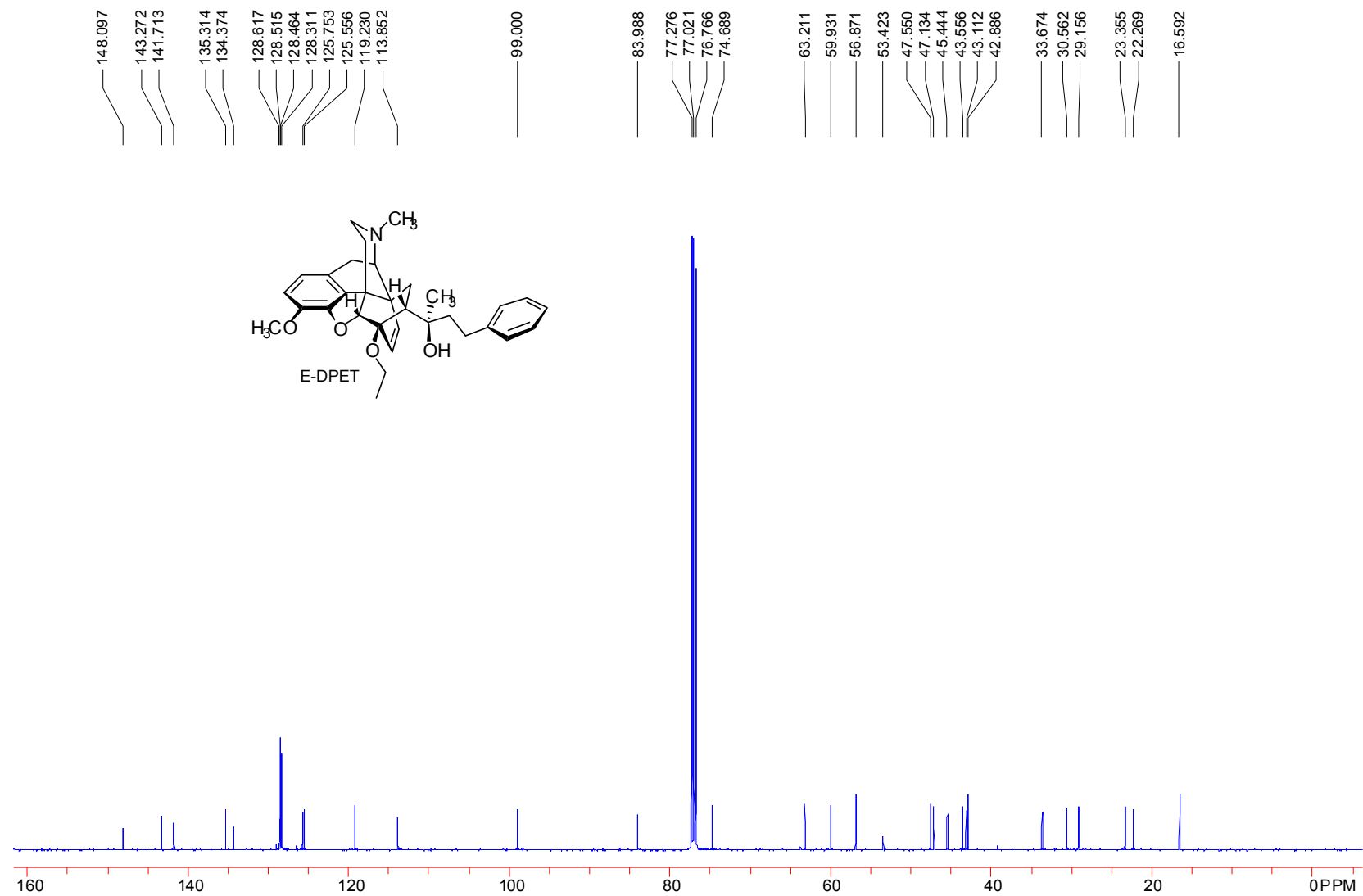
Figure S29. ^{13}C -NMR spectrum of E-DPET (11) in CDCl_3 .

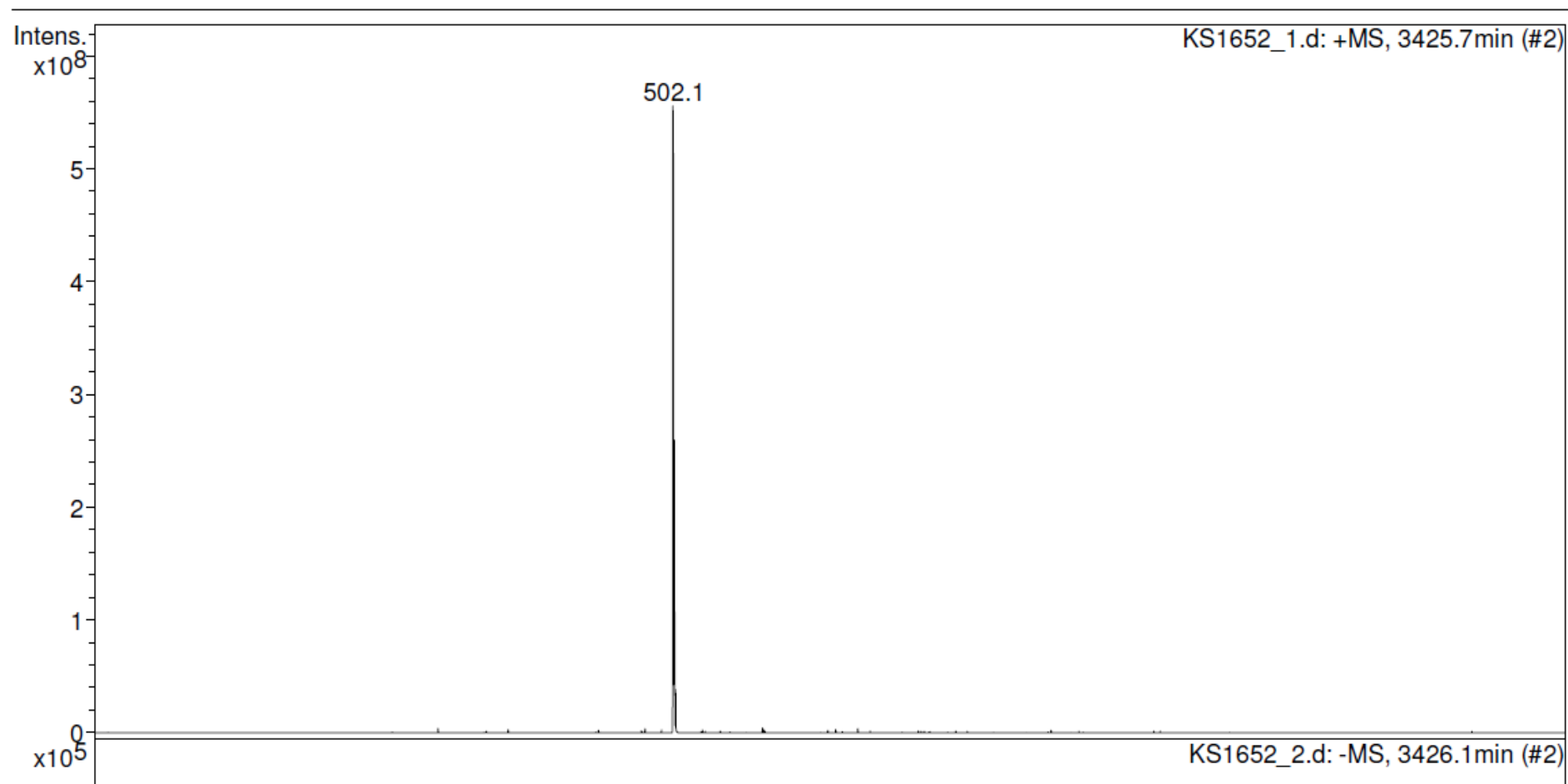
Figure S30. ESI-MS of E-DPET (11).

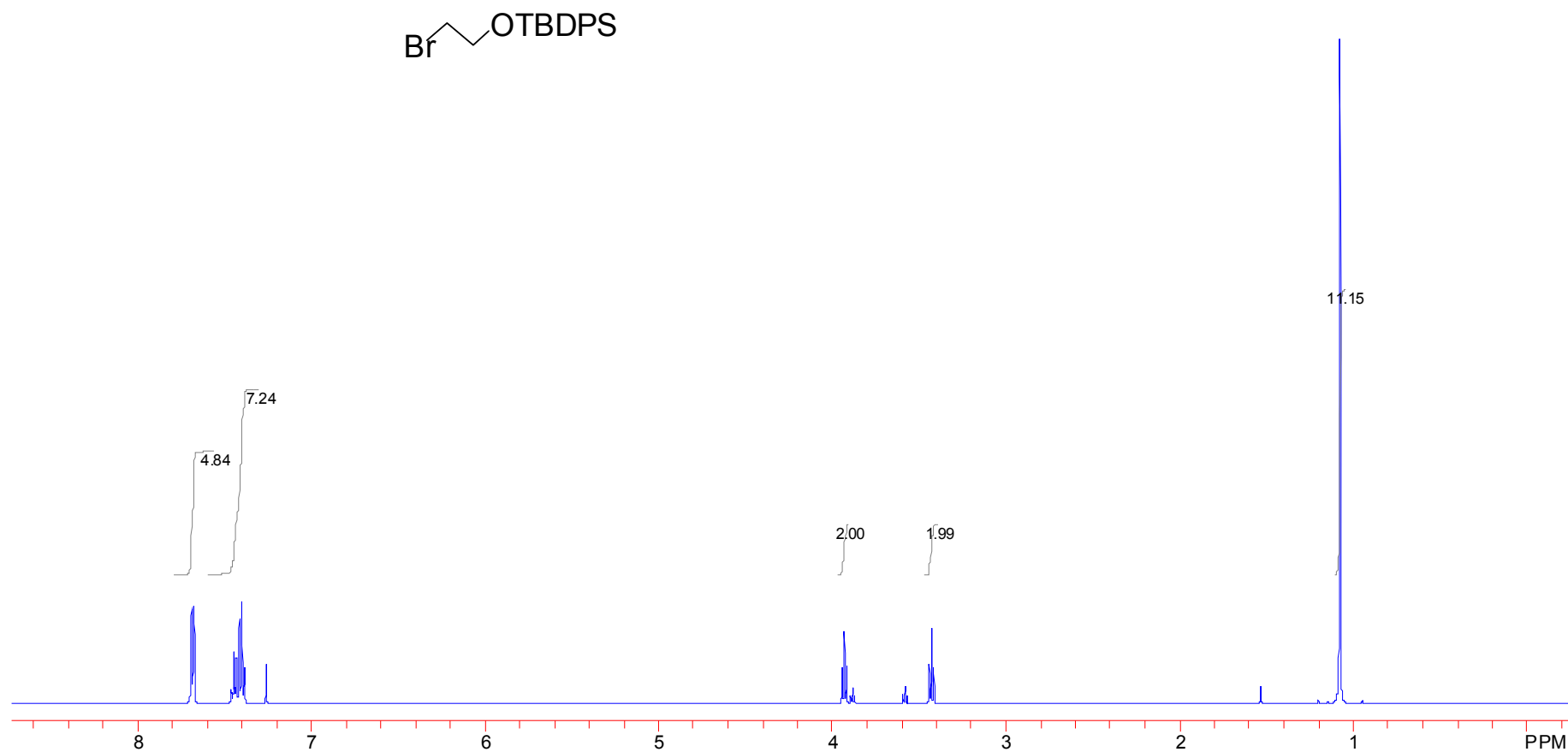
Figure S31. ^1H -NMR spectrum of (2-Brom-ethoxy)-*tert*-butyl-diphenyl-silan (**15a**).

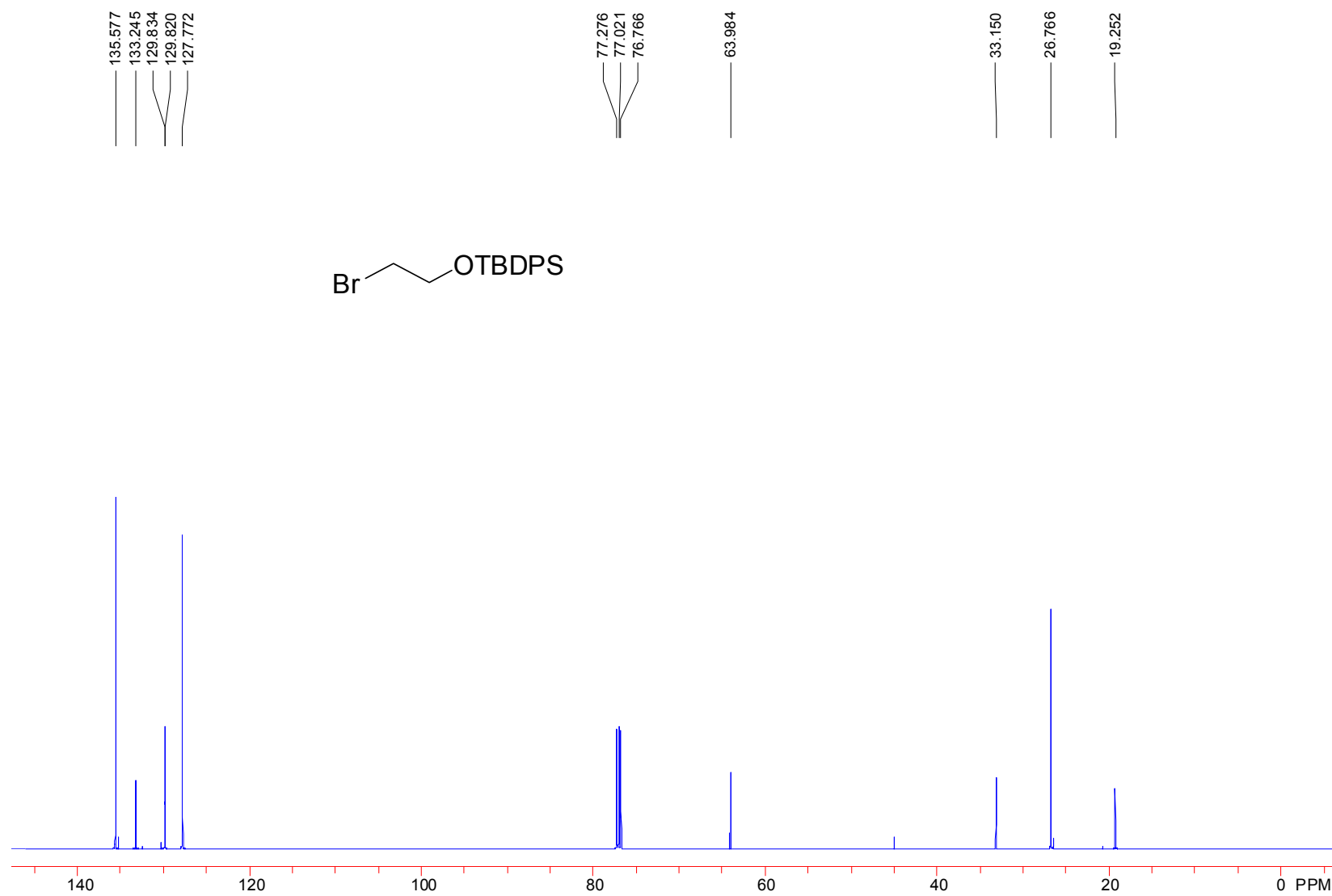
Figure S32. ^{13}C -NMR spectrum of (2-Brom-ethoxy)-*tert*-butyl-diphenyl-silan (**15a**).

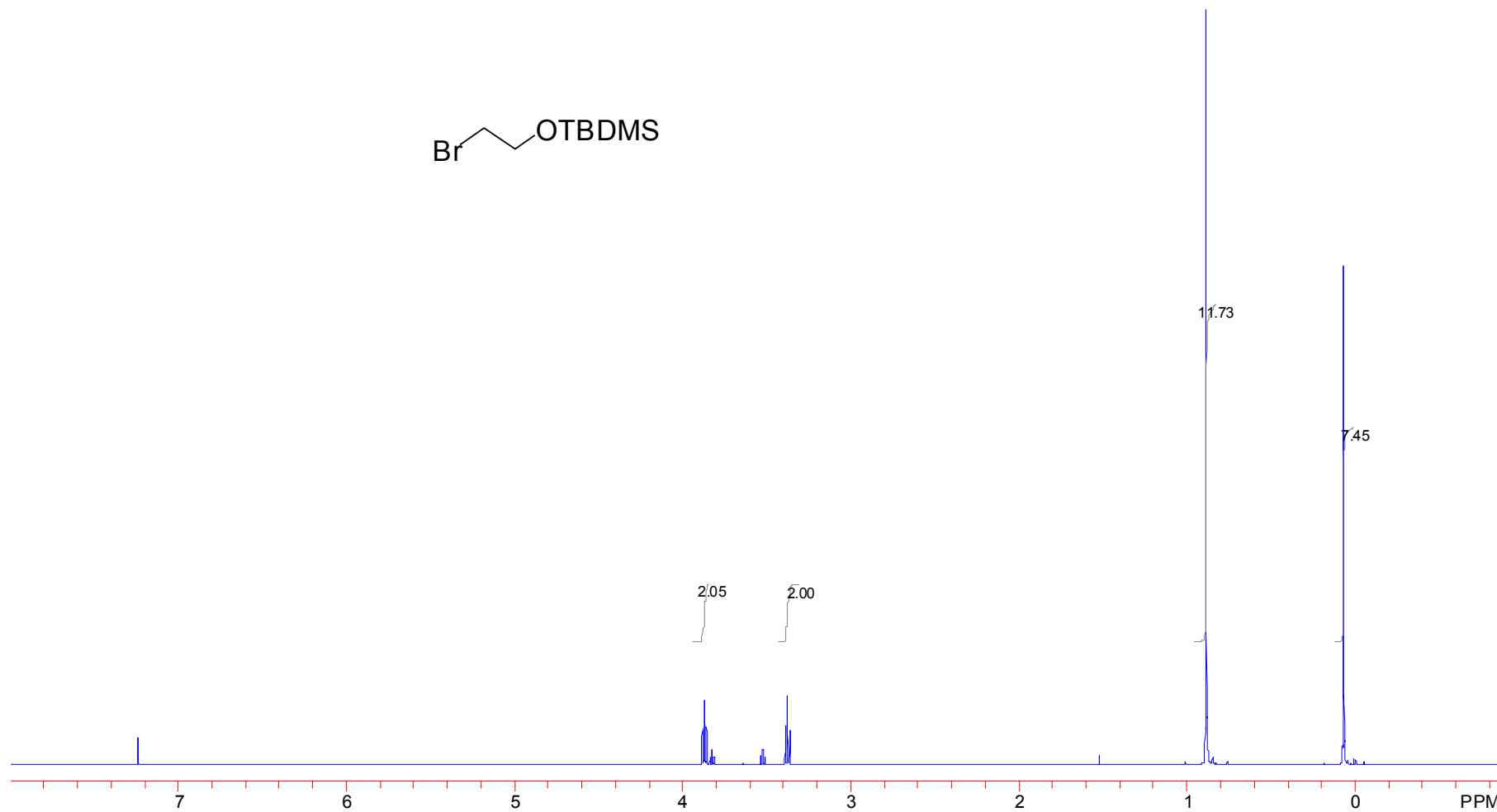
Figure S33. ^1H -NMR spectrum of (2-Brom-ethoxy)-*tert*-butyl-dimethyl-silan (**15b**).

Figure S34. ^{13}C -NMR spectrum of (2-Brom-ethoxy)-*tert*-butyl-dimethyl-silan (**15b**).