Electronic Supplementary Material (ESI) for Polymer Chemistry.

Supporting Information

Synthesis of Highly Refractive and Highly Fluorescent Rigid Cyanuryl Polyimines with Polycyclic Aromatic Hydrocarbon Pendants

*Tomohiro Kotaki,[1] Naoya Nishimura,[2], Masaaki Ozawa,[2] A. Fujimori,[3] Hiroki Muraoka,[1] Satoshi Ogawa,[1] Toshinobu Korenaga,[1] Eiichi Suzuki,[1] Yoshiyuki Oishi,[1] and Yuji Shibasaki[1]**

[1]Department of Chemistry & Bioengineering, Faculty of Engineering, Iwate University, 4-3-5 Ueda, Morioka, Iwate 020-8551, Japan

[2]Materials Research Department, Chemical Research Laboratories, Nissan Chemical Industries Ltd., 488-6, Ssuzumi-Cho, Funabashi-shi, Chiba 274-0052, Japan

[3]Graduate School of Science and Engineering, Saitama University, 255 Shimo-okubo, Sakura-ku, Saitama 338-8570, Japan.

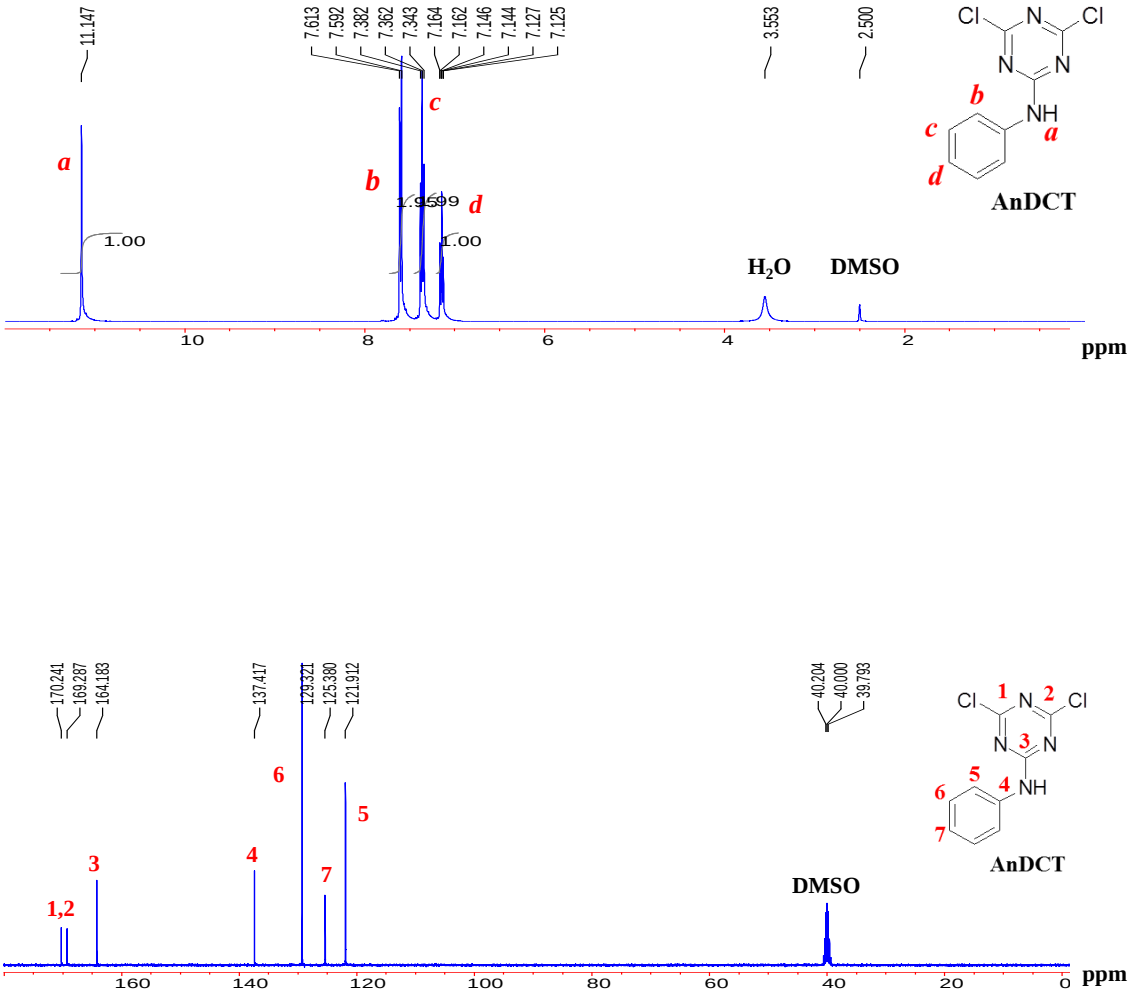
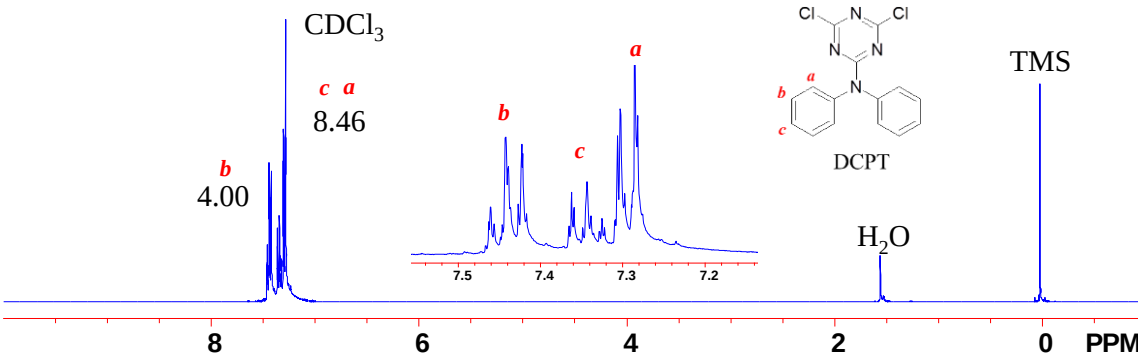


Figure S1. ^{1}H and ^{13}C NMR spectra of AnDCT (DMSO-d_6)



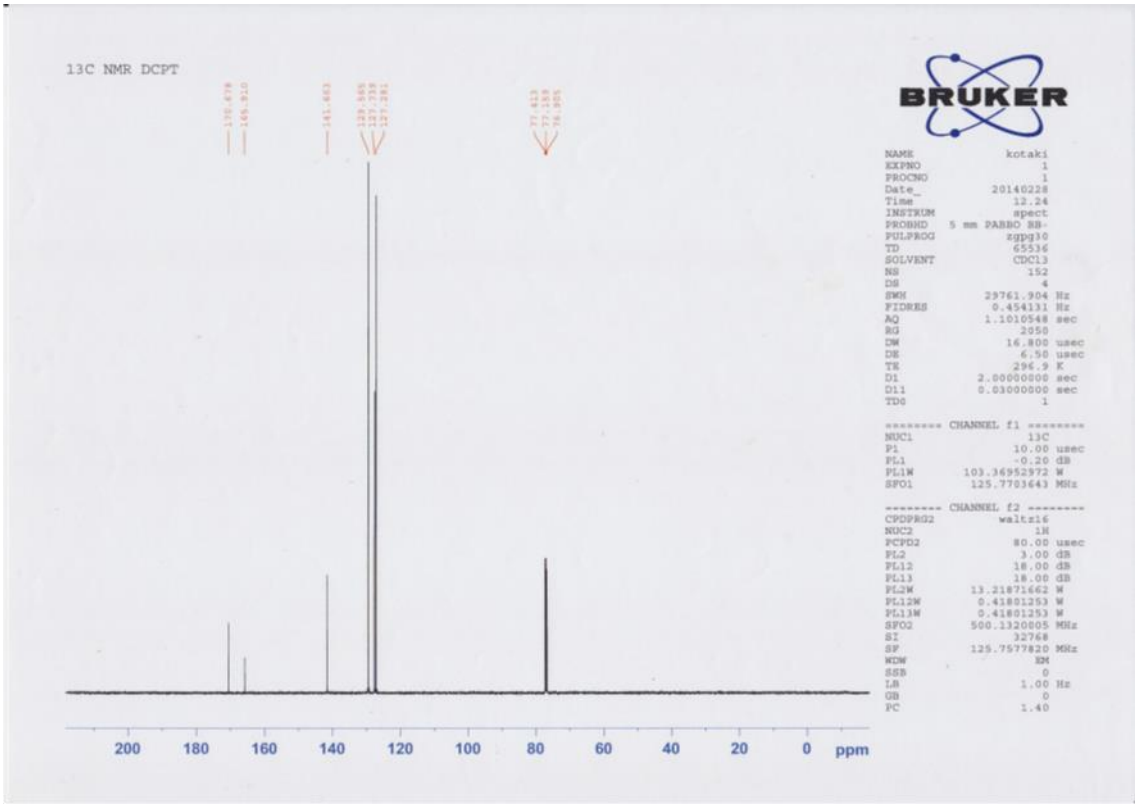


Figure S2. ^{1}H and ^{13}C NMR spectra of DCPT (DMSO-d_6)

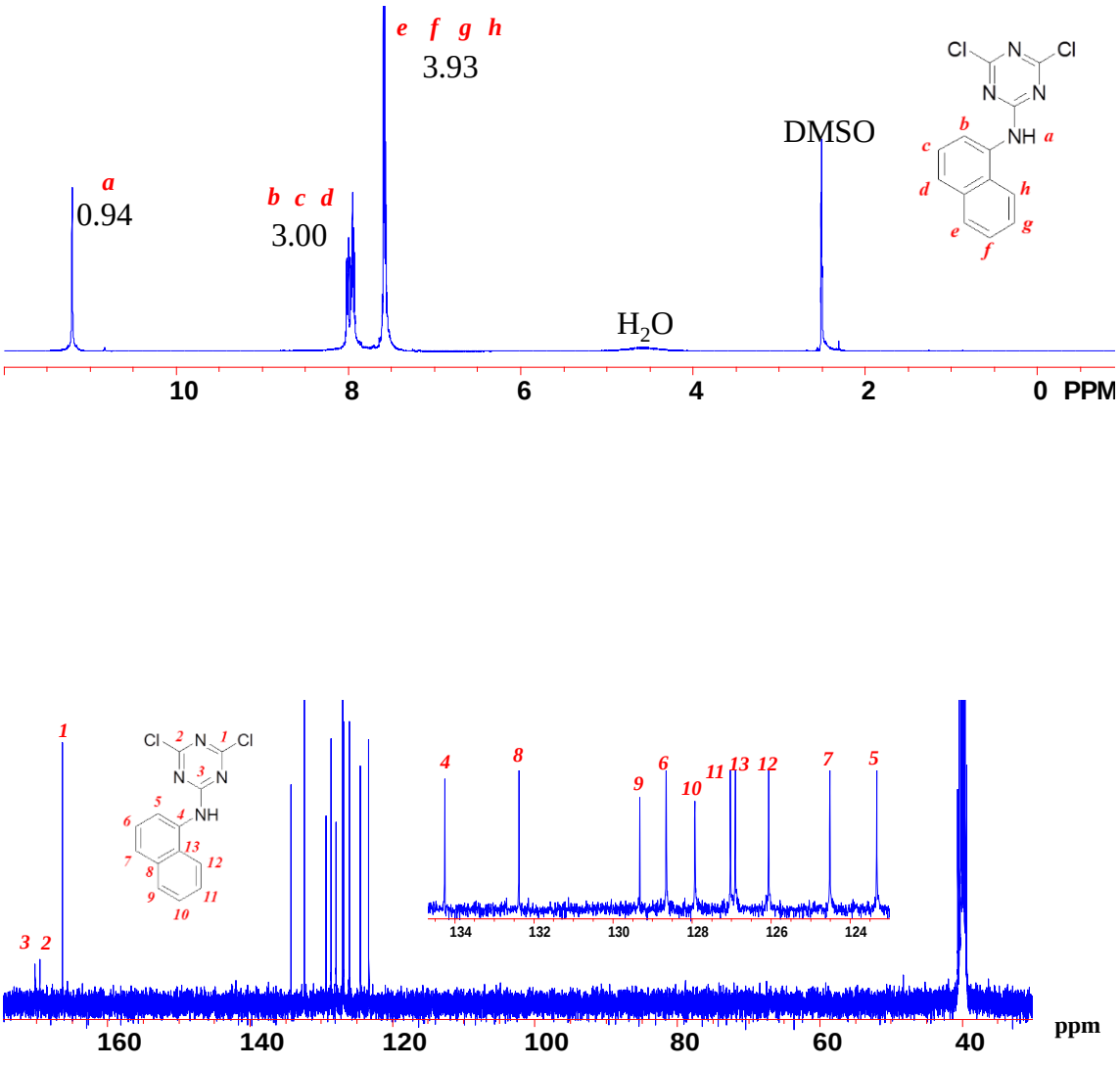


Figure S3. ^{1}H and ^{13}C NMR spectra of αDCNT (DMSO-d_6)

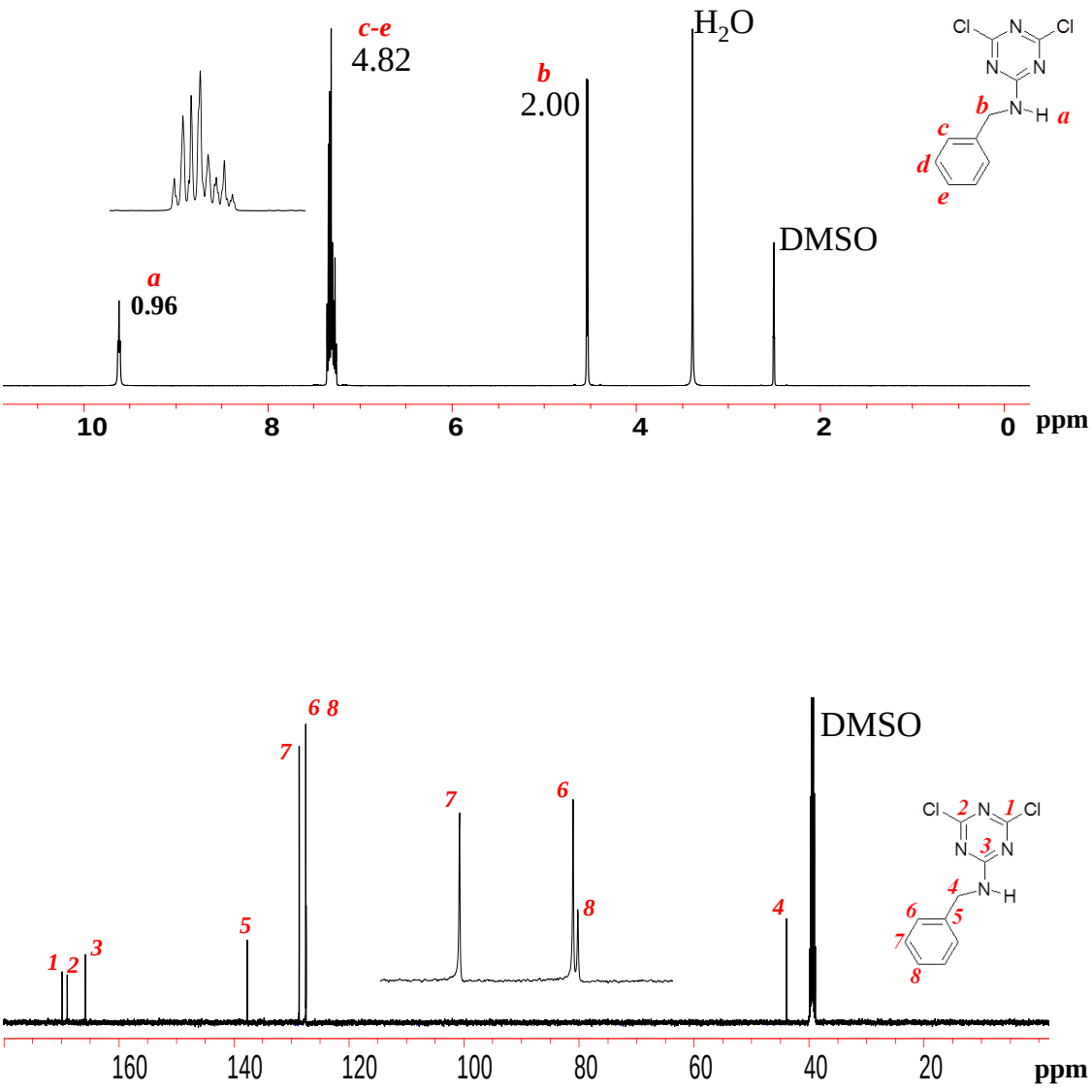


Figure S4. ^{1}H and ^{13}C NMR spectra of BnDCT (DMSO-d_6)

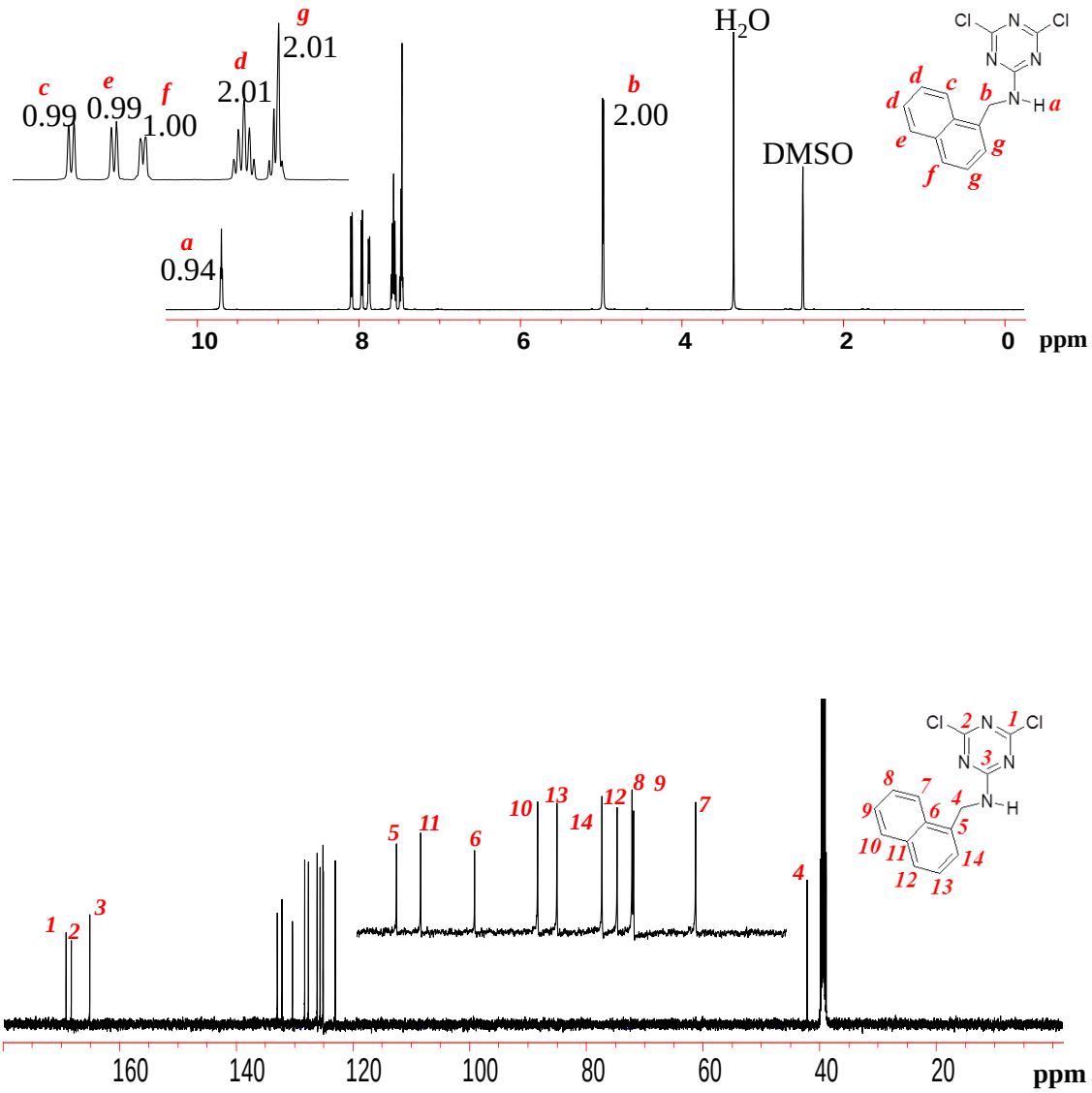


Figure S5. ^{1}H and ^{13}C NMR spectra of DCNmT (DMSO-d_6)

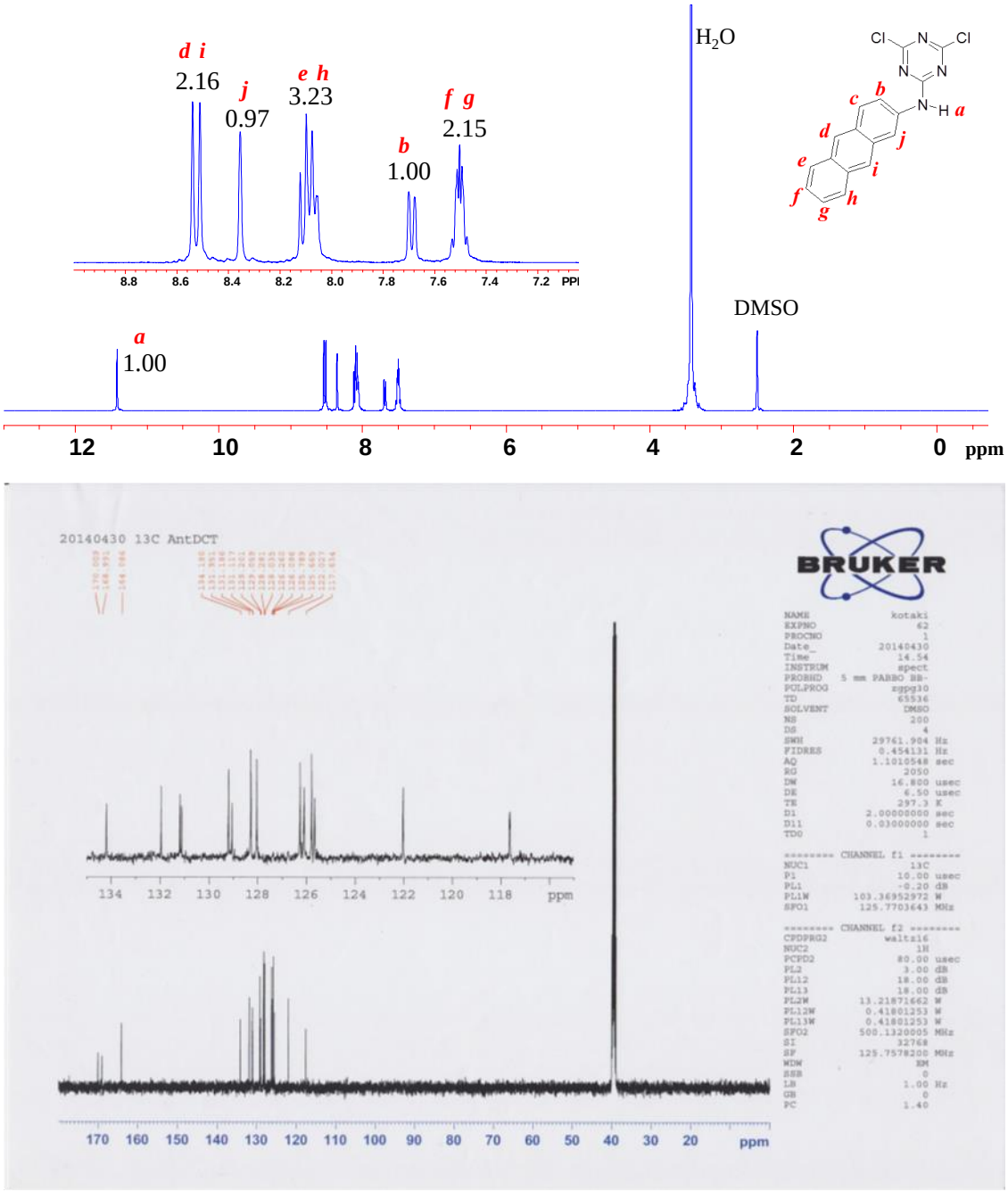


Figure S6. ^{1}H and ^{13}C NMR spectra of βAntDCT (DMSO-d_6)

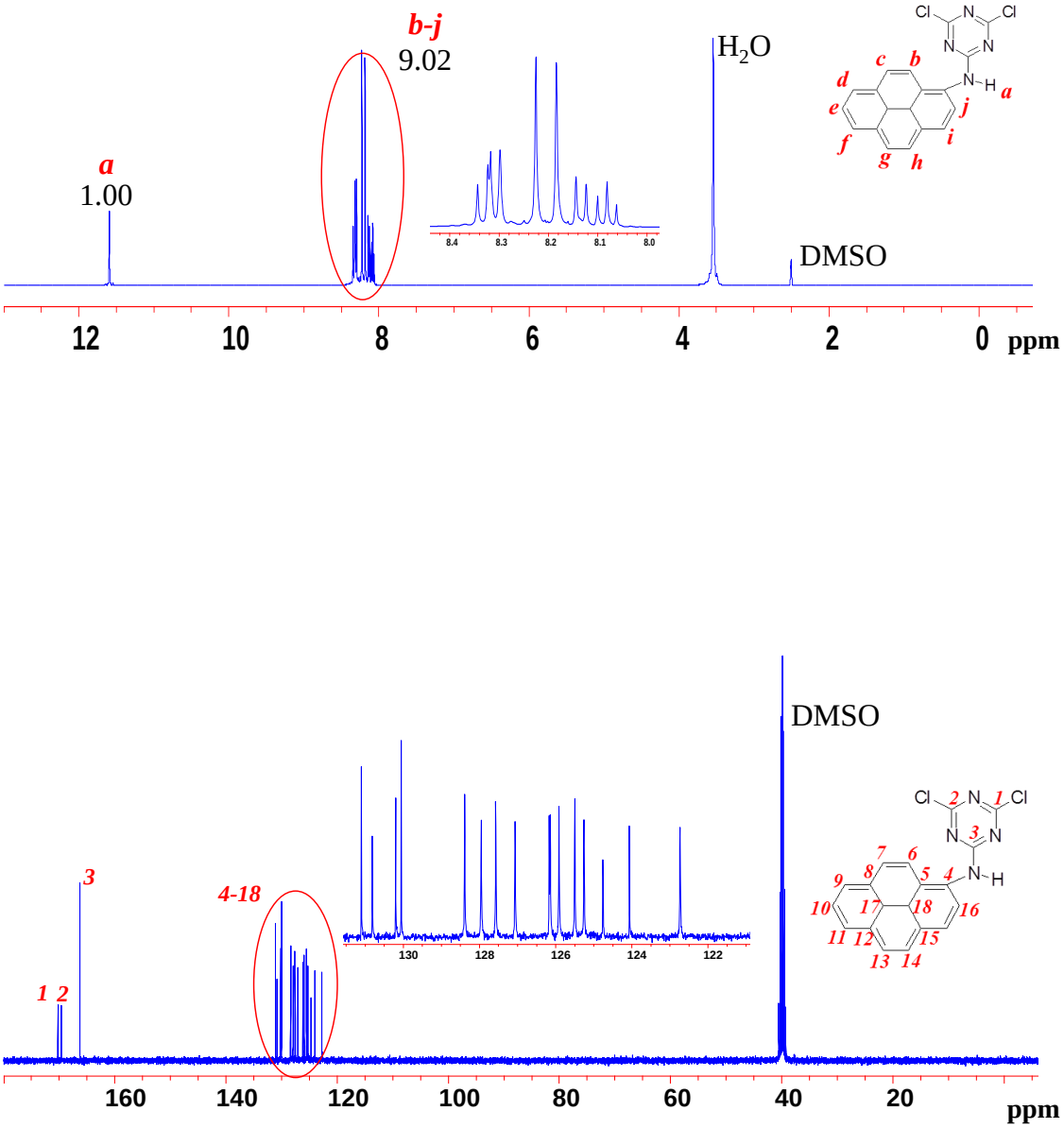


Figure S7. ^{1}H and ^{13}C NMR spectra of αDCPyT (DMSO-d_6)

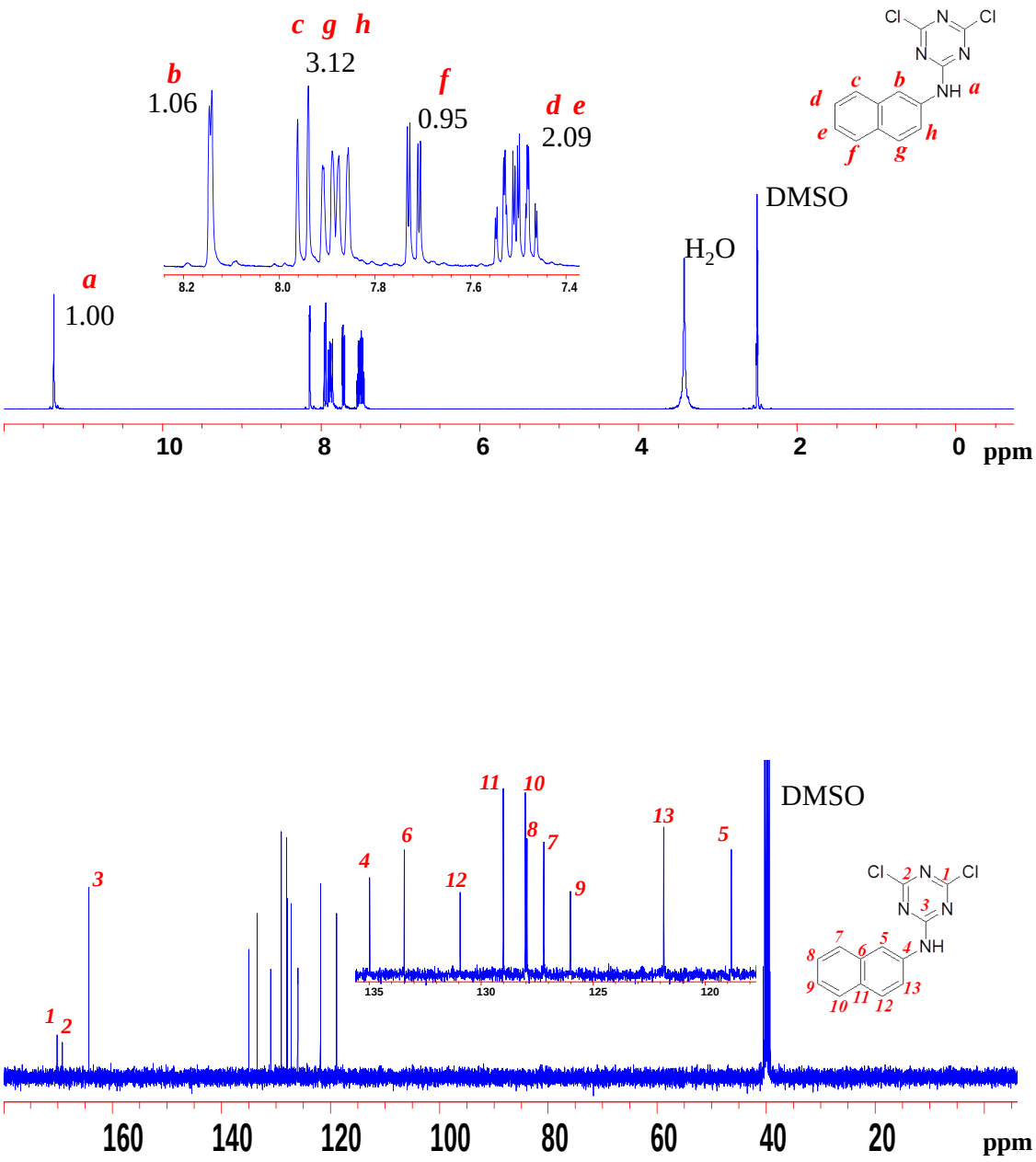


Figure S8. ^{1}H and ^{13}C NMR spectra of βDCNT (DMSO-d_6)

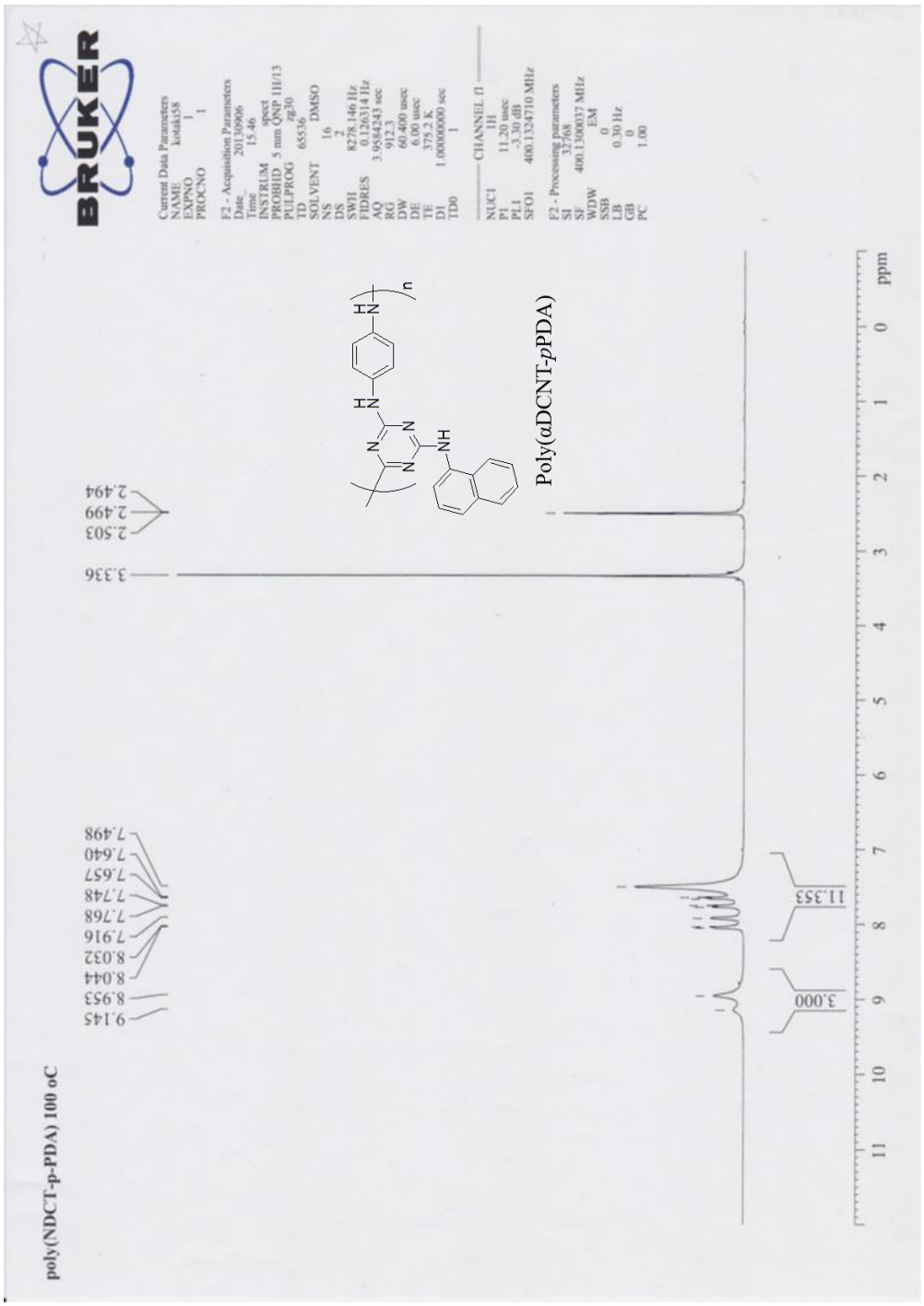


Figure S9. ^{1}H NMR spectra of poly(αDCNT-*p*PDA) (DMSO-d_6)

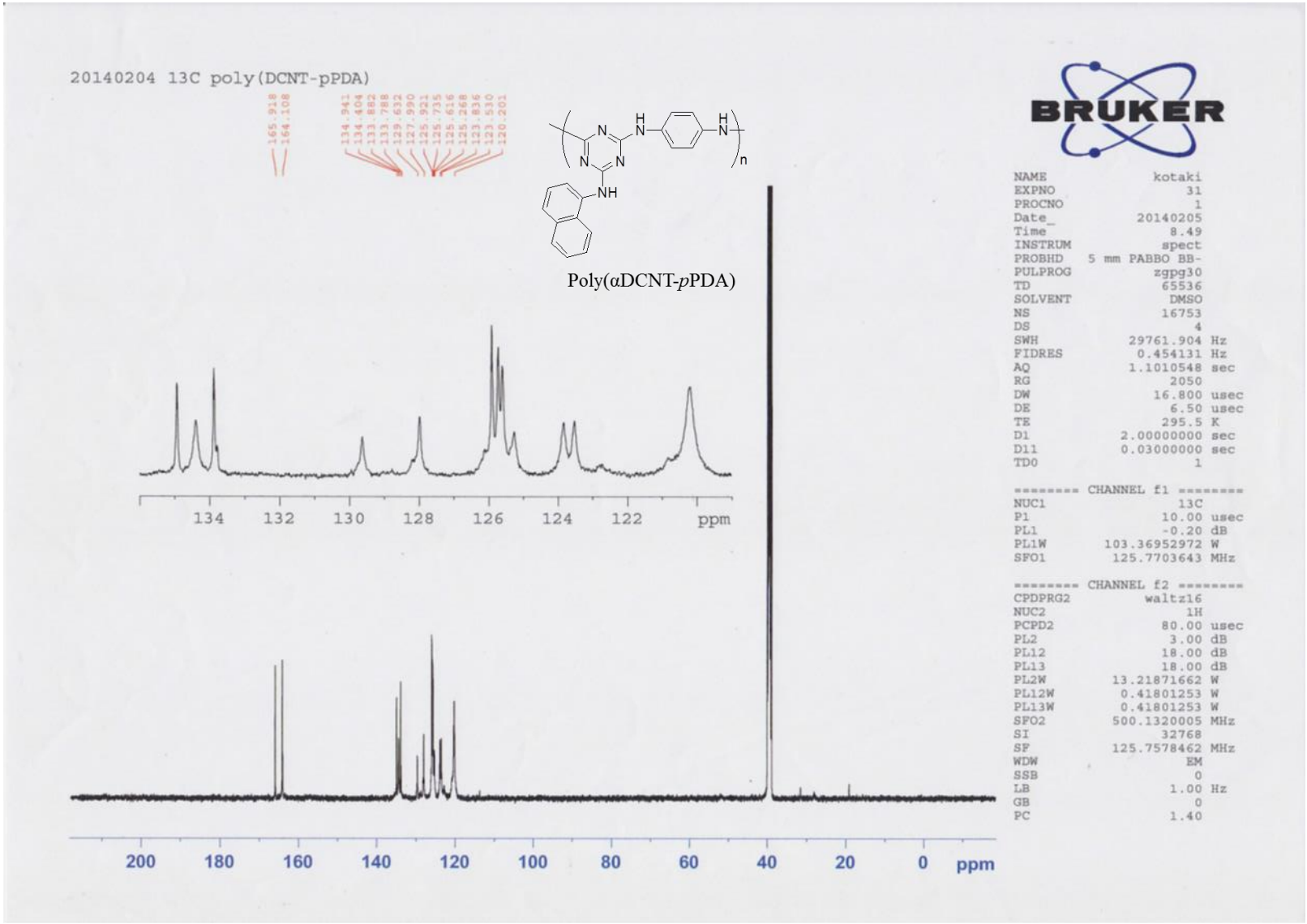


Figure S10. ^{13}C NMR spectra of poly(αDCNT-*p*PDA) (DMSO-d_6)

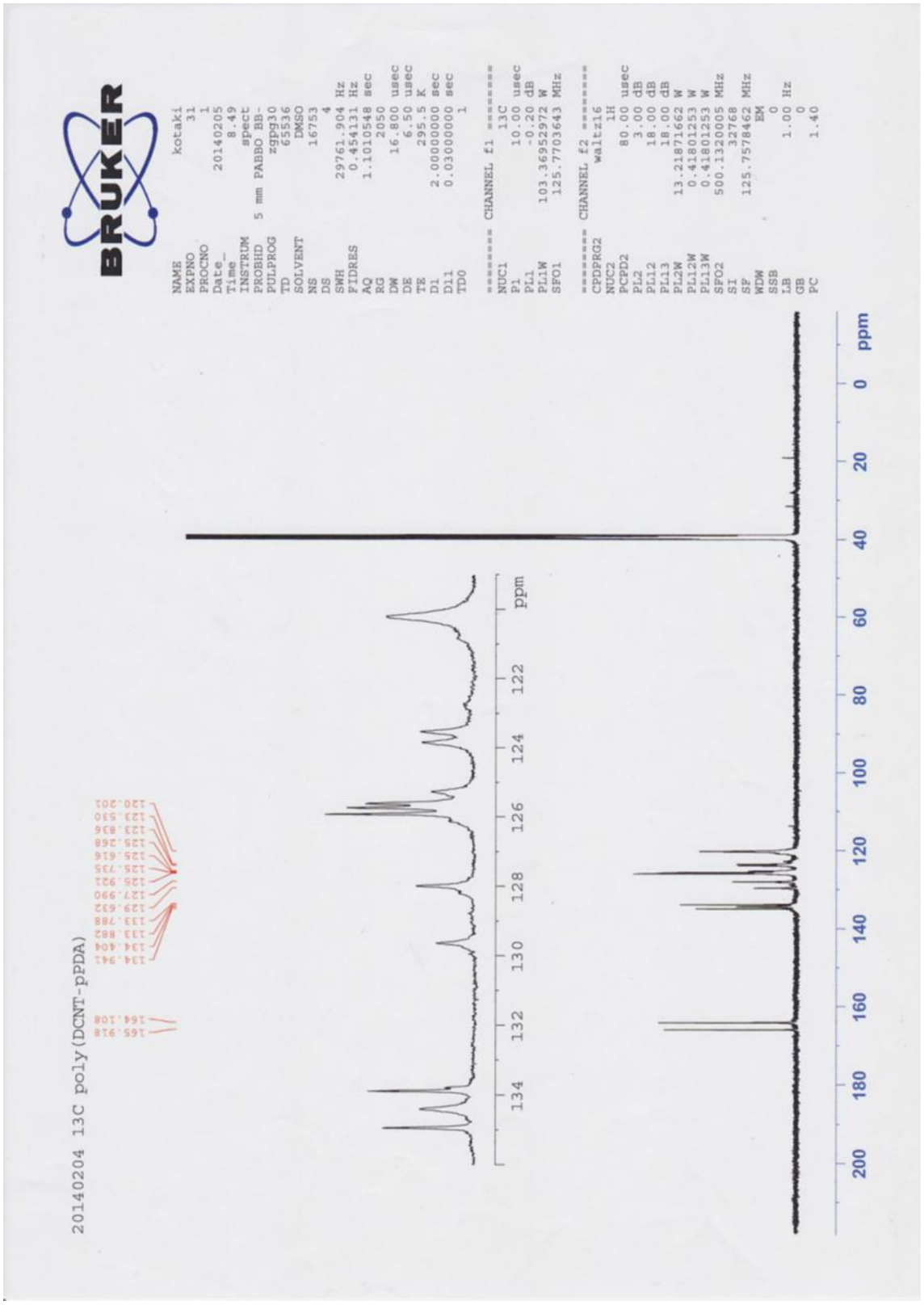


Figure S11. ^{1}H NMR spectra of poly(αDCNT-*m*PDA) (DMSO-d_6)

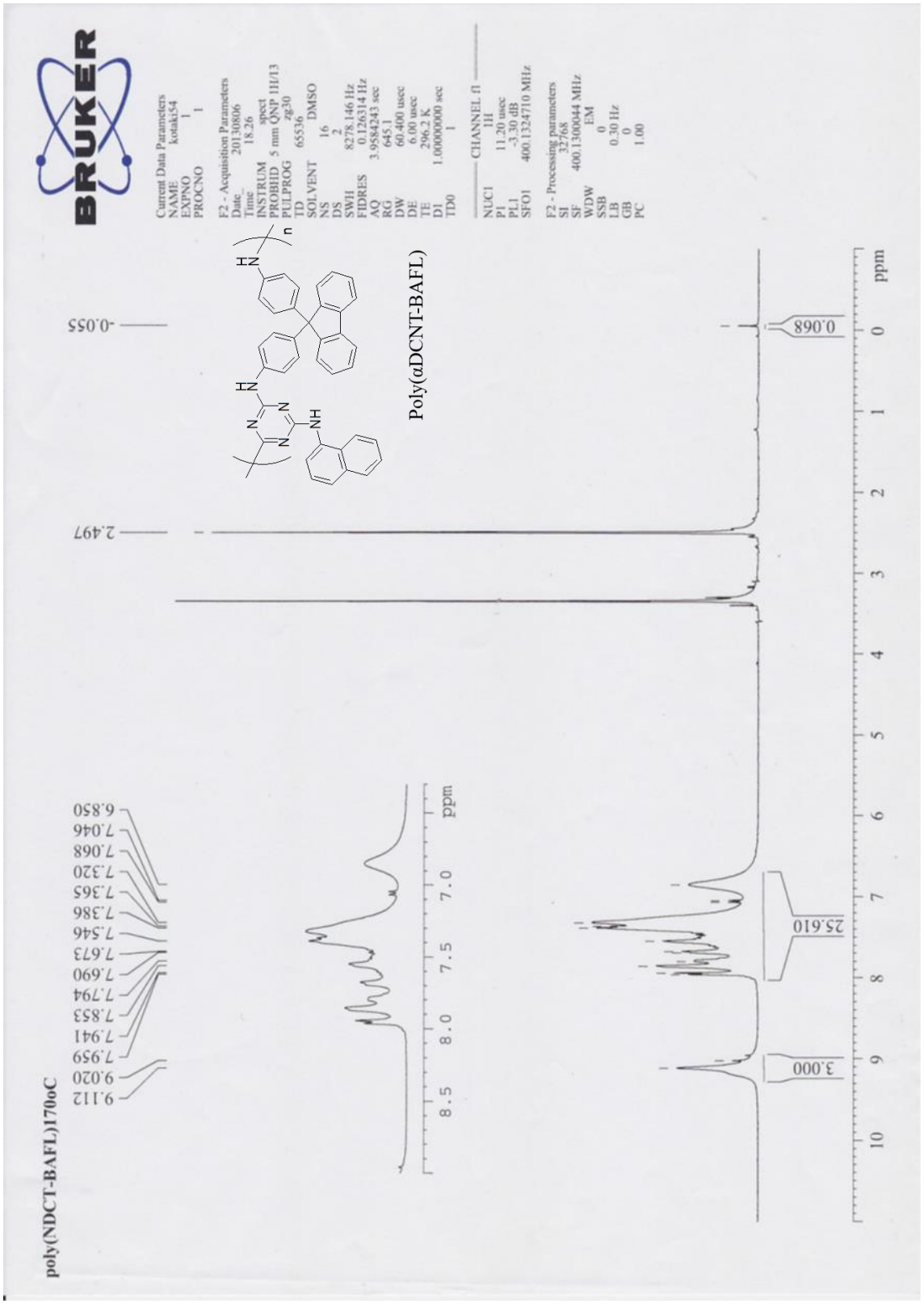


Figure S12. ^{1}H NMR spectra of poly(αDCNT-BAFL) (DMSO-d_6)

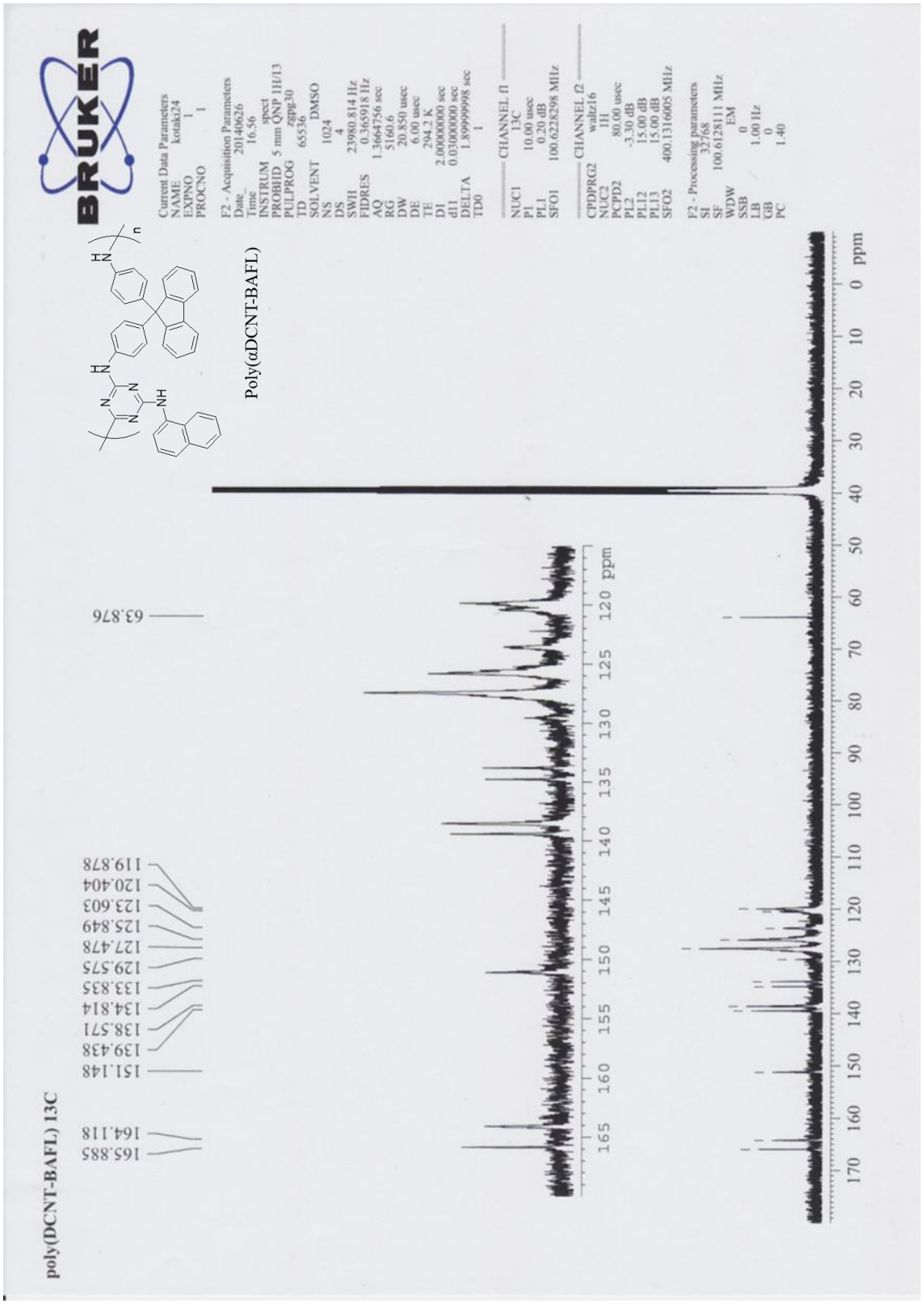


Figure S13. ^{13}C NMR spectra of poly(αDCNT-BAFL) (DMSO-d_6)

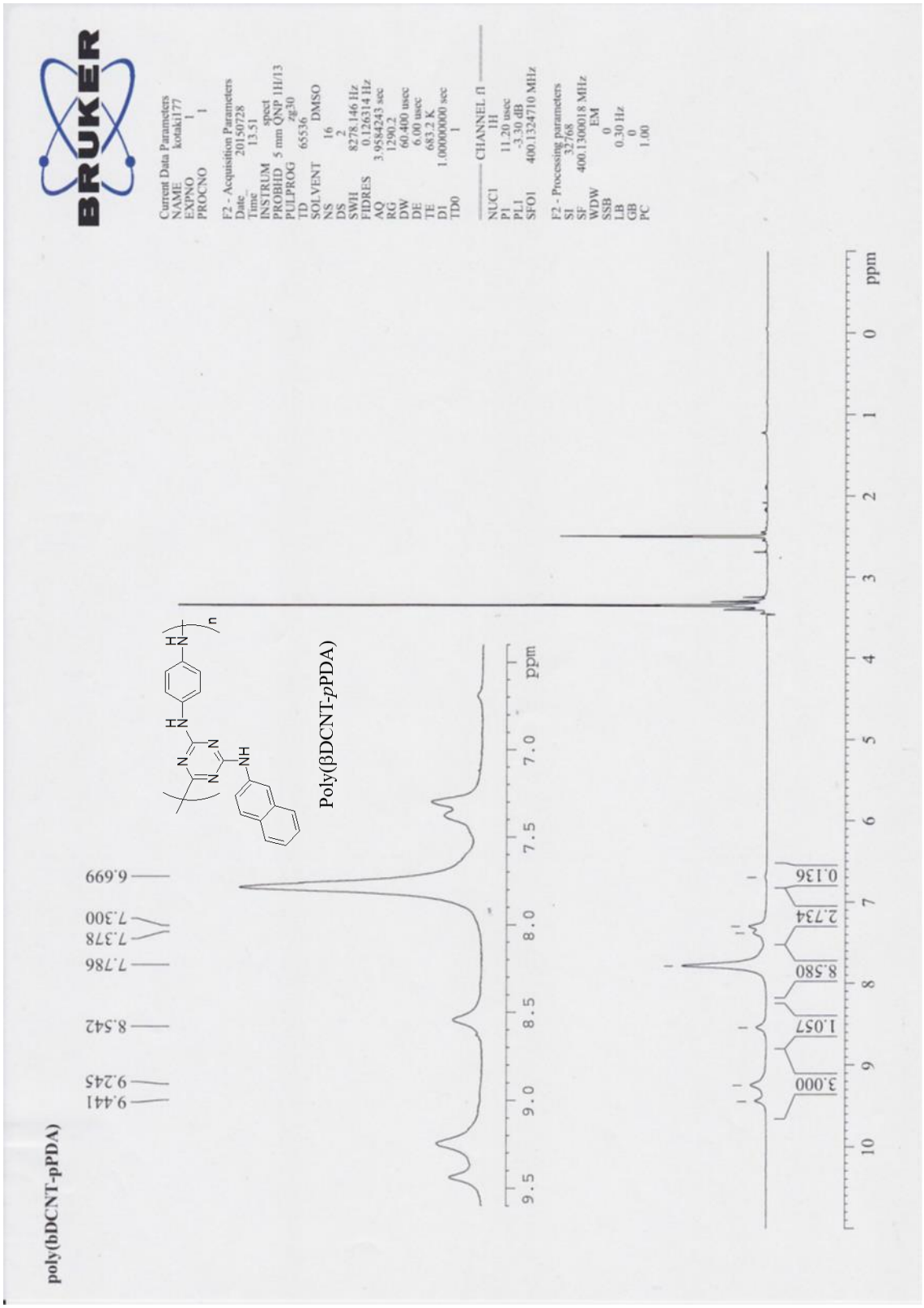


Figure S14. ^{1}H NMR spectra of poly(βDCNT-*p*PDA) (DMSO-d_6)

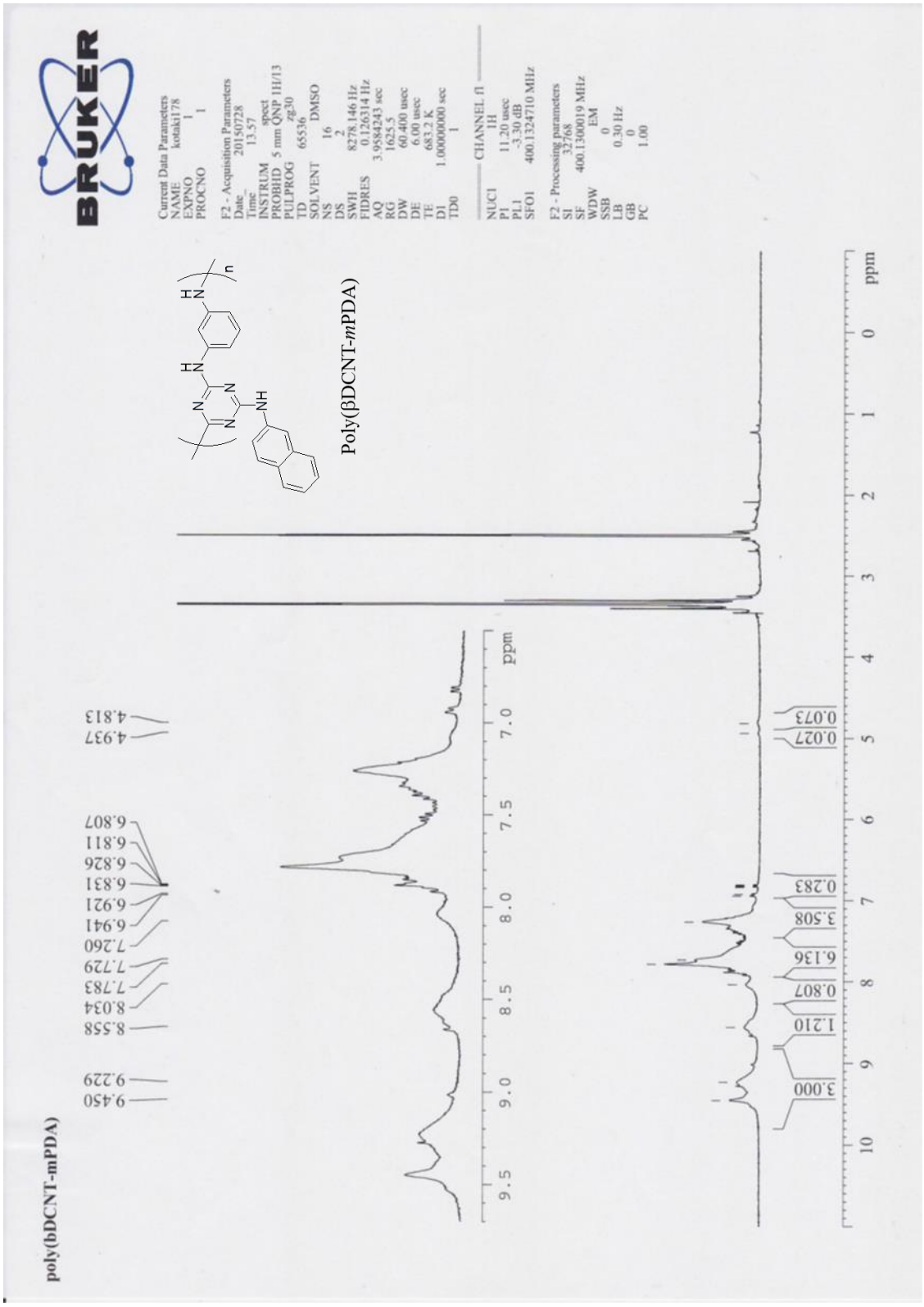


Figure S15. ^{1}H NMR spectra of poly(βDCNT-*m*PDA) (DMSO-d_6)

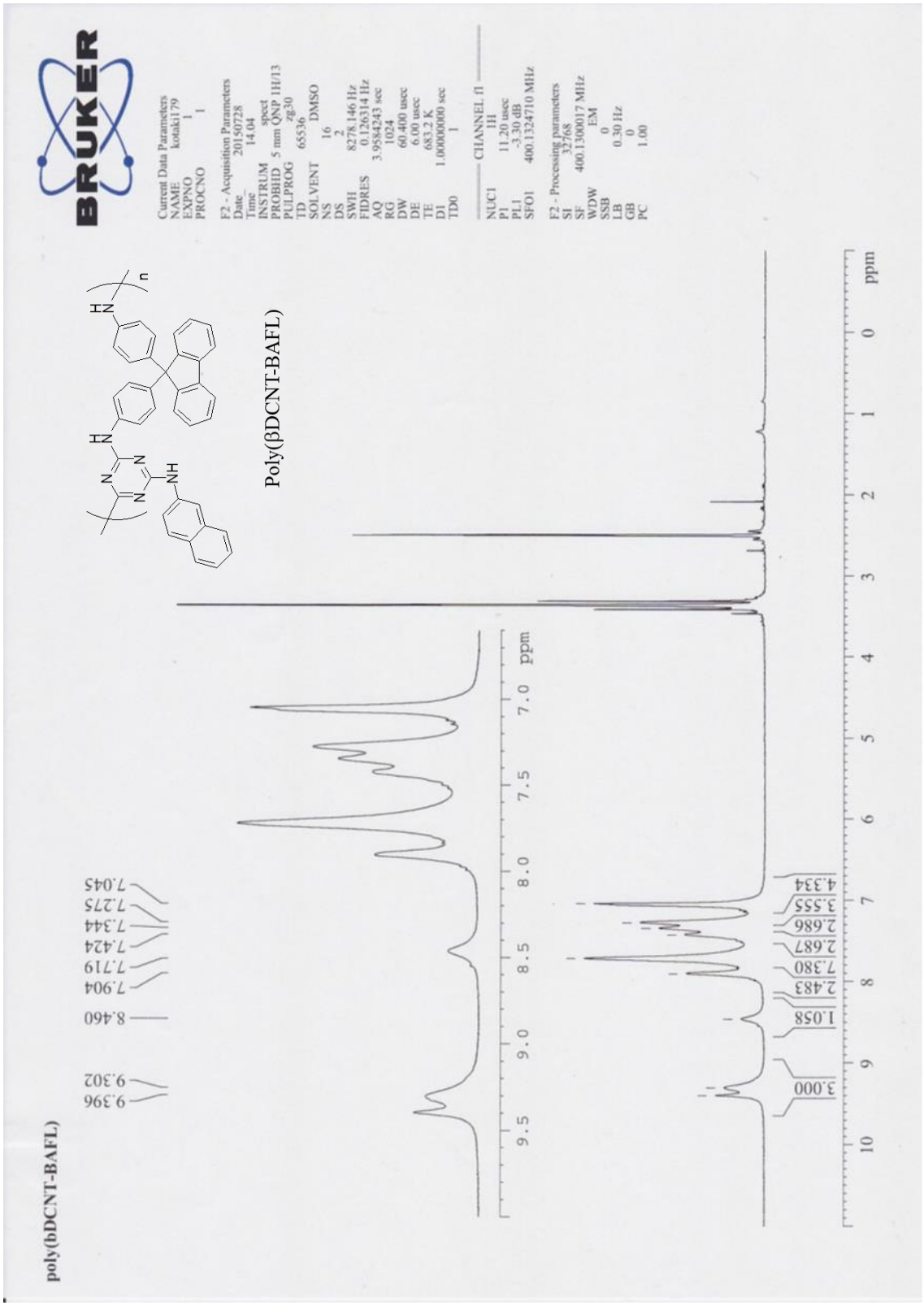


Figure S16. ^{1}H NMR spectra of poly(βDCNT-BAFL) (DMSO-d_6)

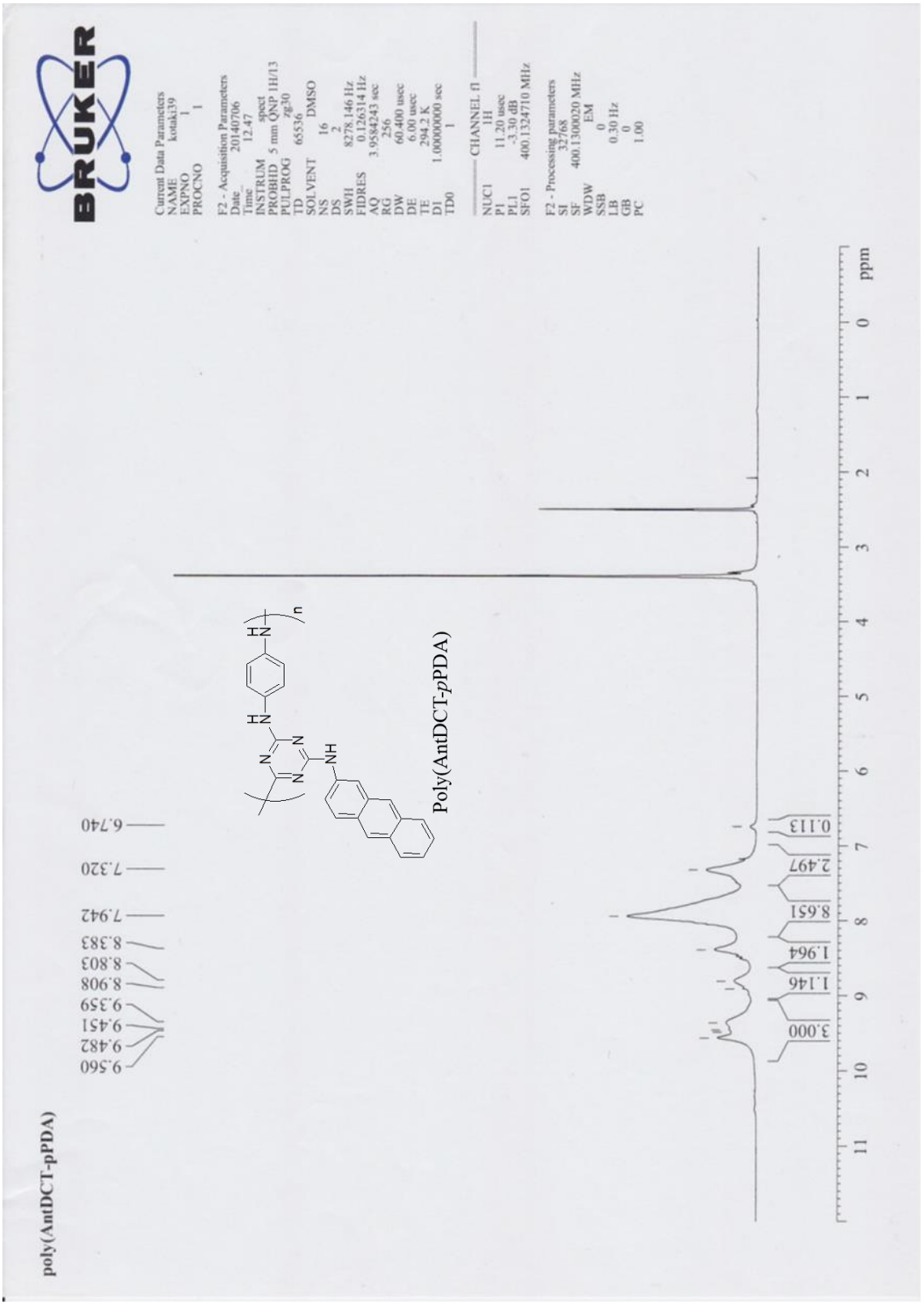


Figure S17. ^{1}H NMR spectra of poly(βAntDCT-*p*PDA) (DMSO-d_6)

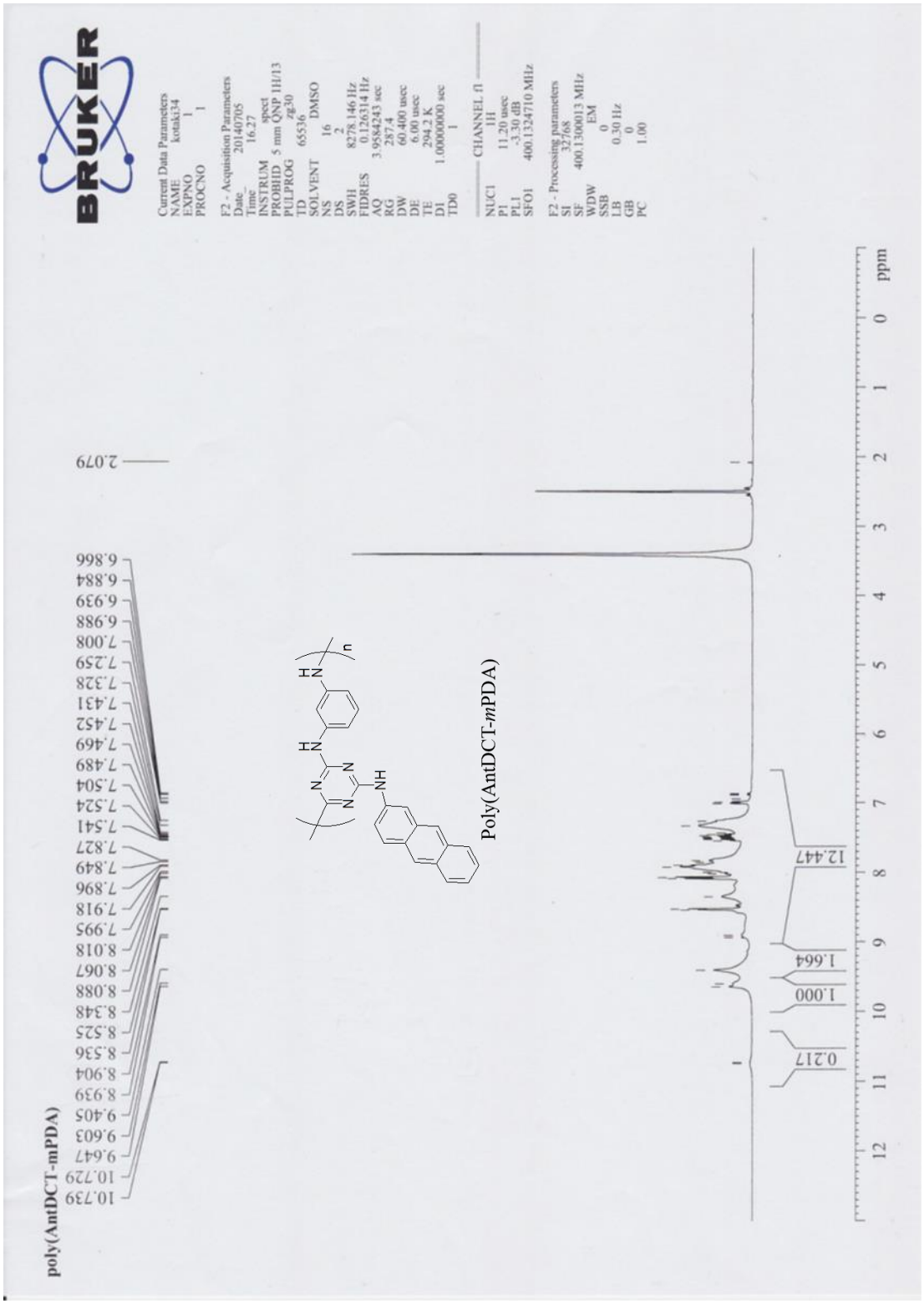


Figure S18. ^{1}H NMR spectra of poly(βAntDCT-*m*PDA) (DMSO-d_6)

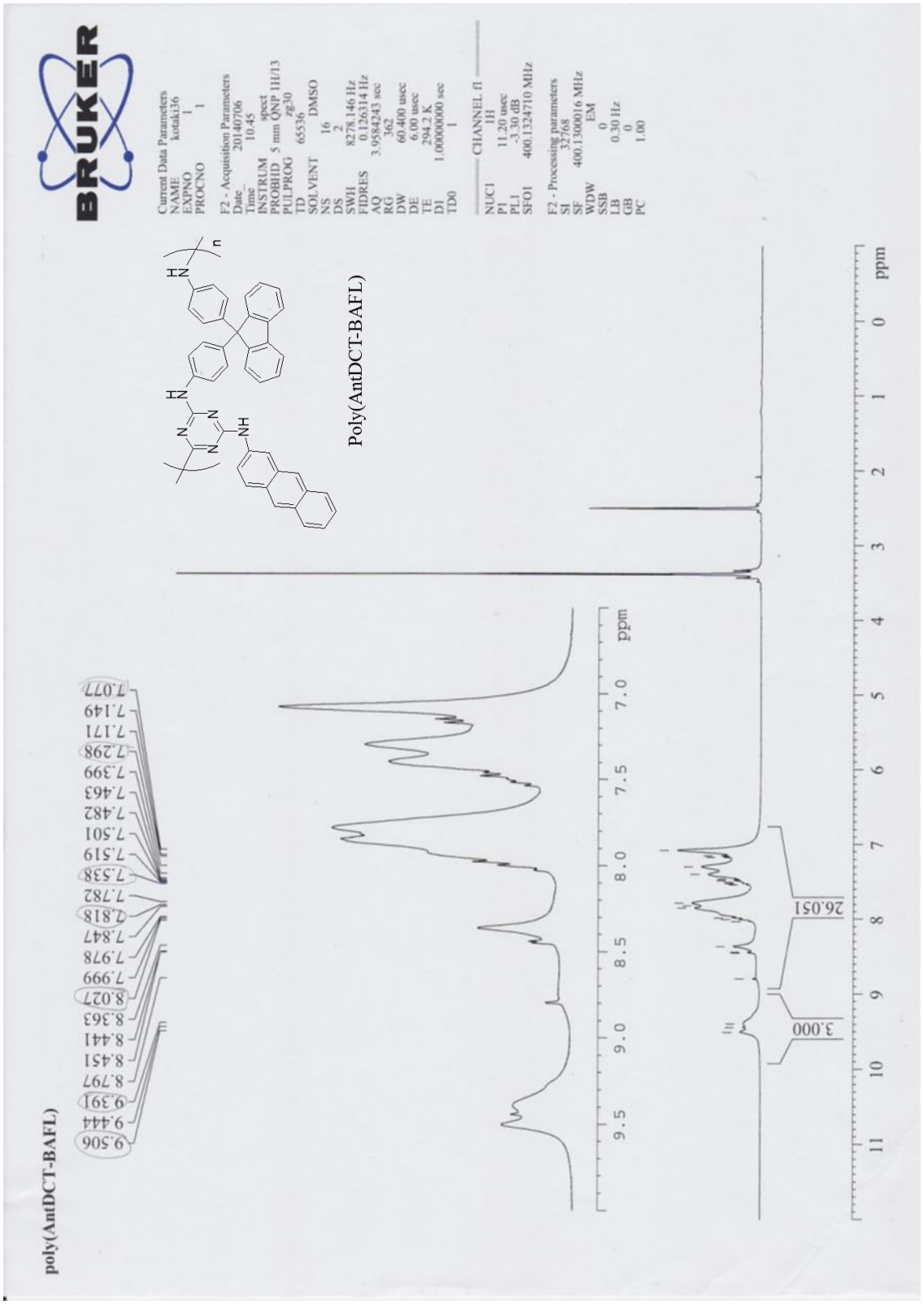


Figure S19. ^{1}H NMR spectra of poly(βAntDCT-BAFL) (DMSO-d_6)

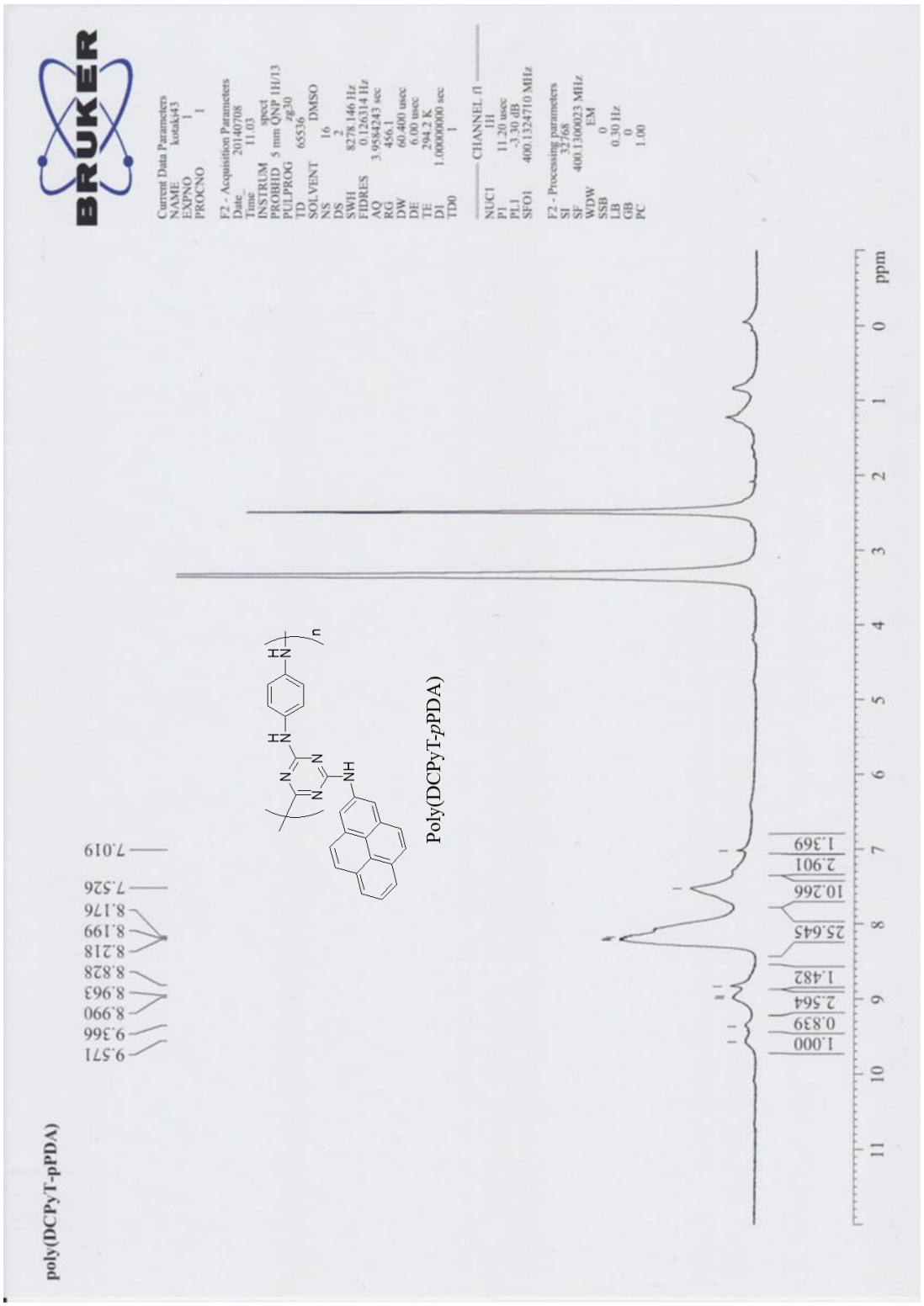


Figure S20. ^{1}H NMR spectra of poly(βDCPyT-*p*PDA) (DMSO-d_6)

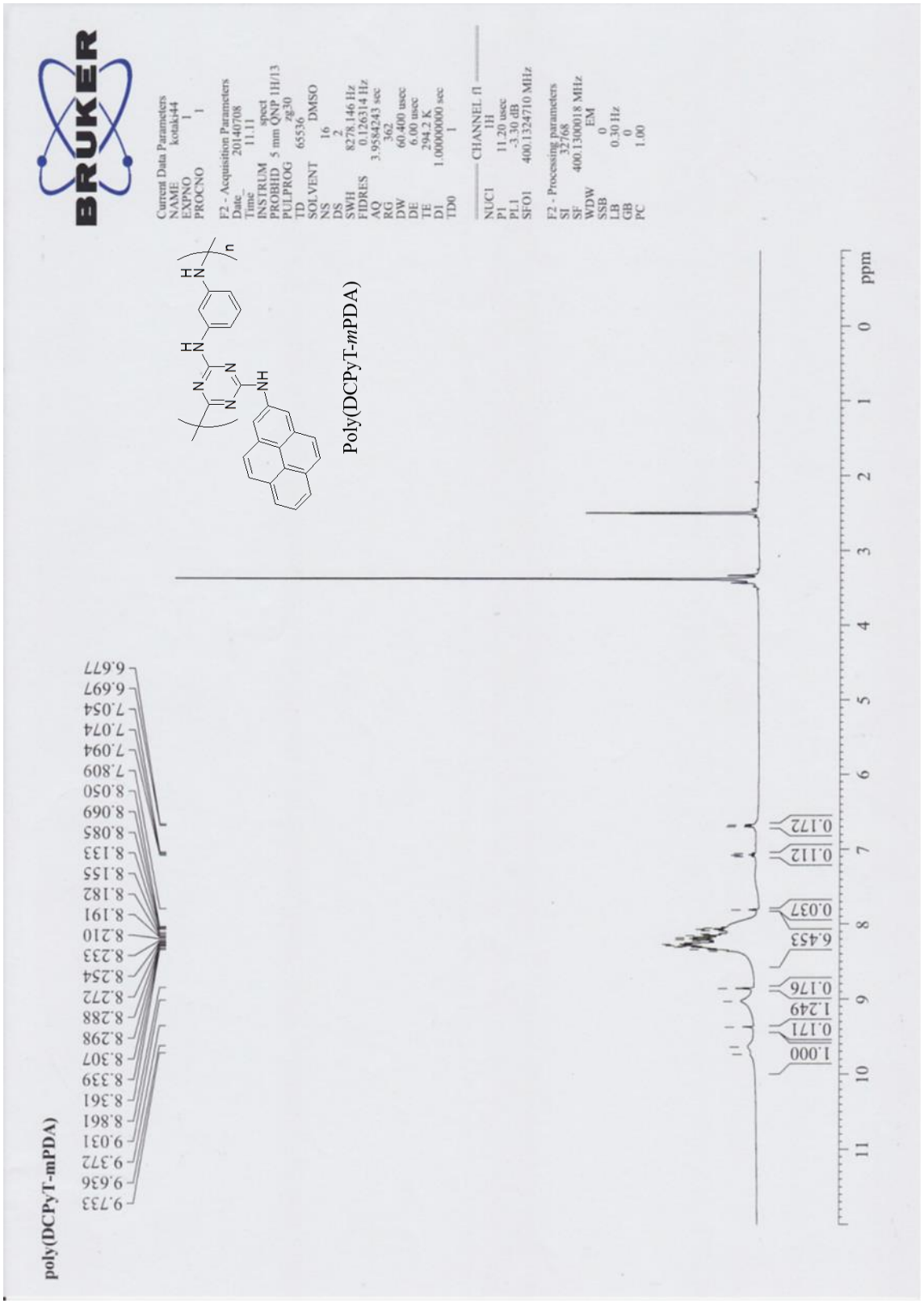


Figure S21. ^{1}H NMR spectra of poly(βDCPyT-*m*PDA) (DMSO-d_6)

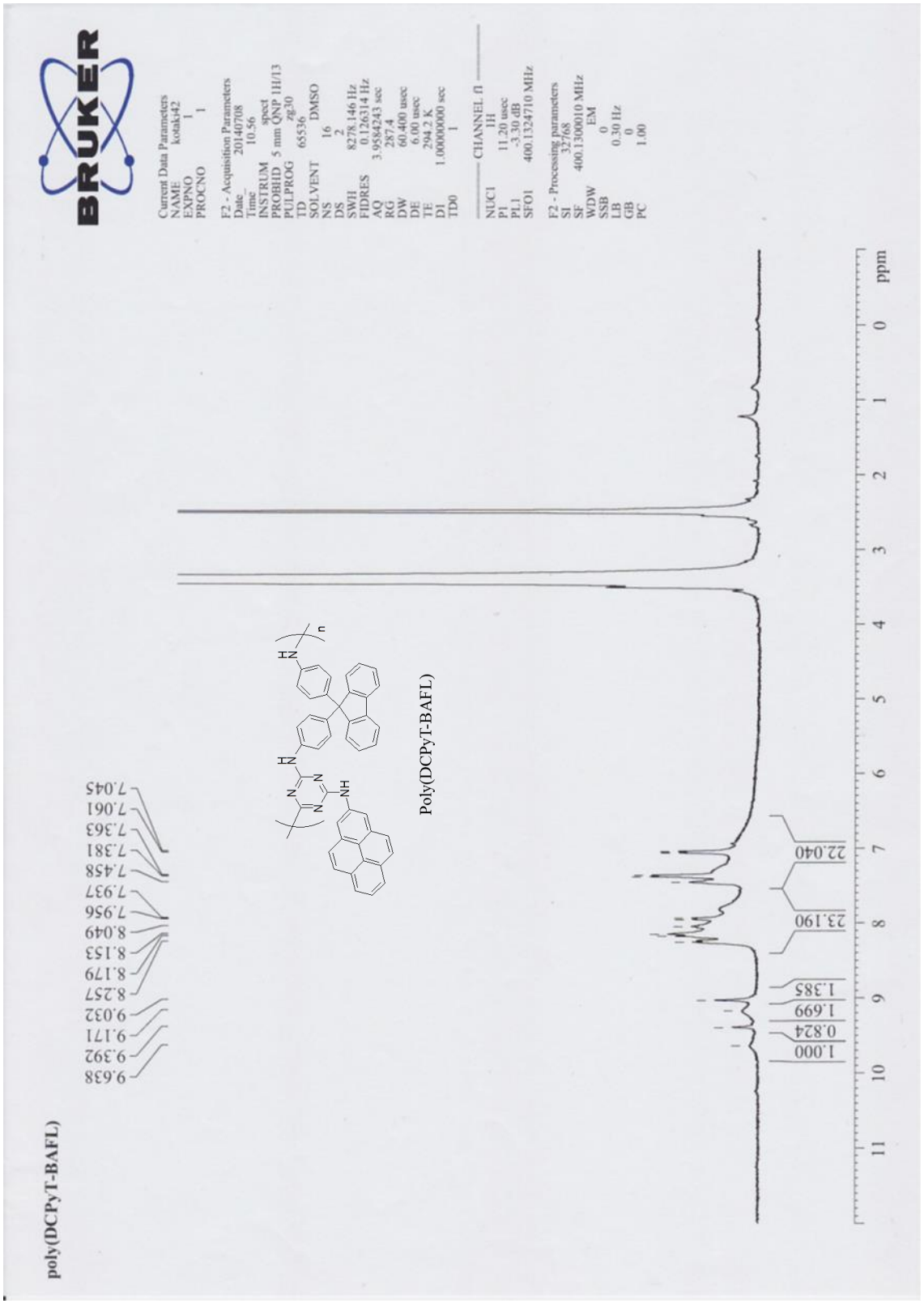


Figure S22. ^{1}H NMR spectra of poly(βDCPyT-BAFL) (DMSO-d_6)

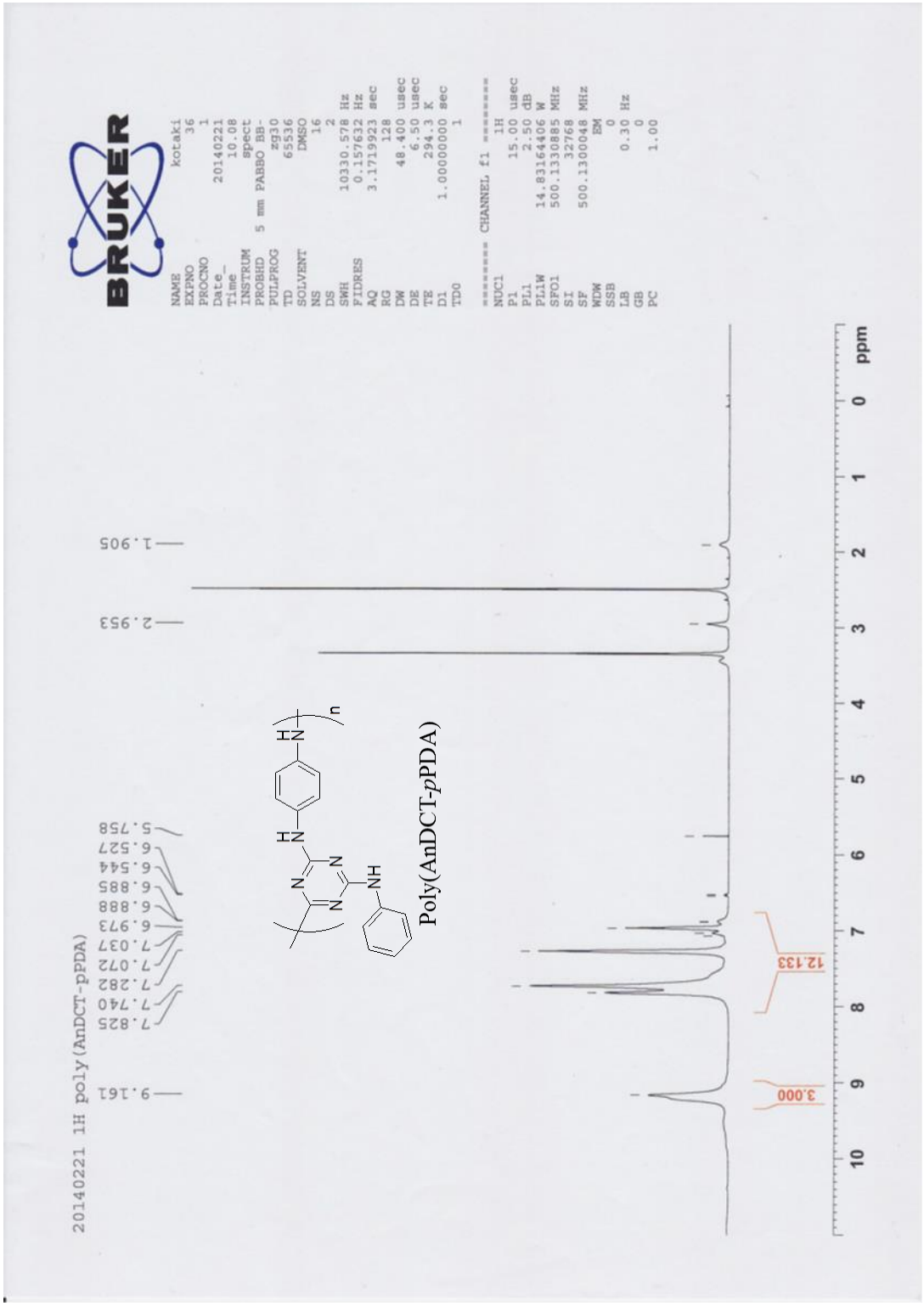


Figure S23. ^{1}H NMR spectra of poly(AnDCT-*p*PDA) (DMSO-d_6)

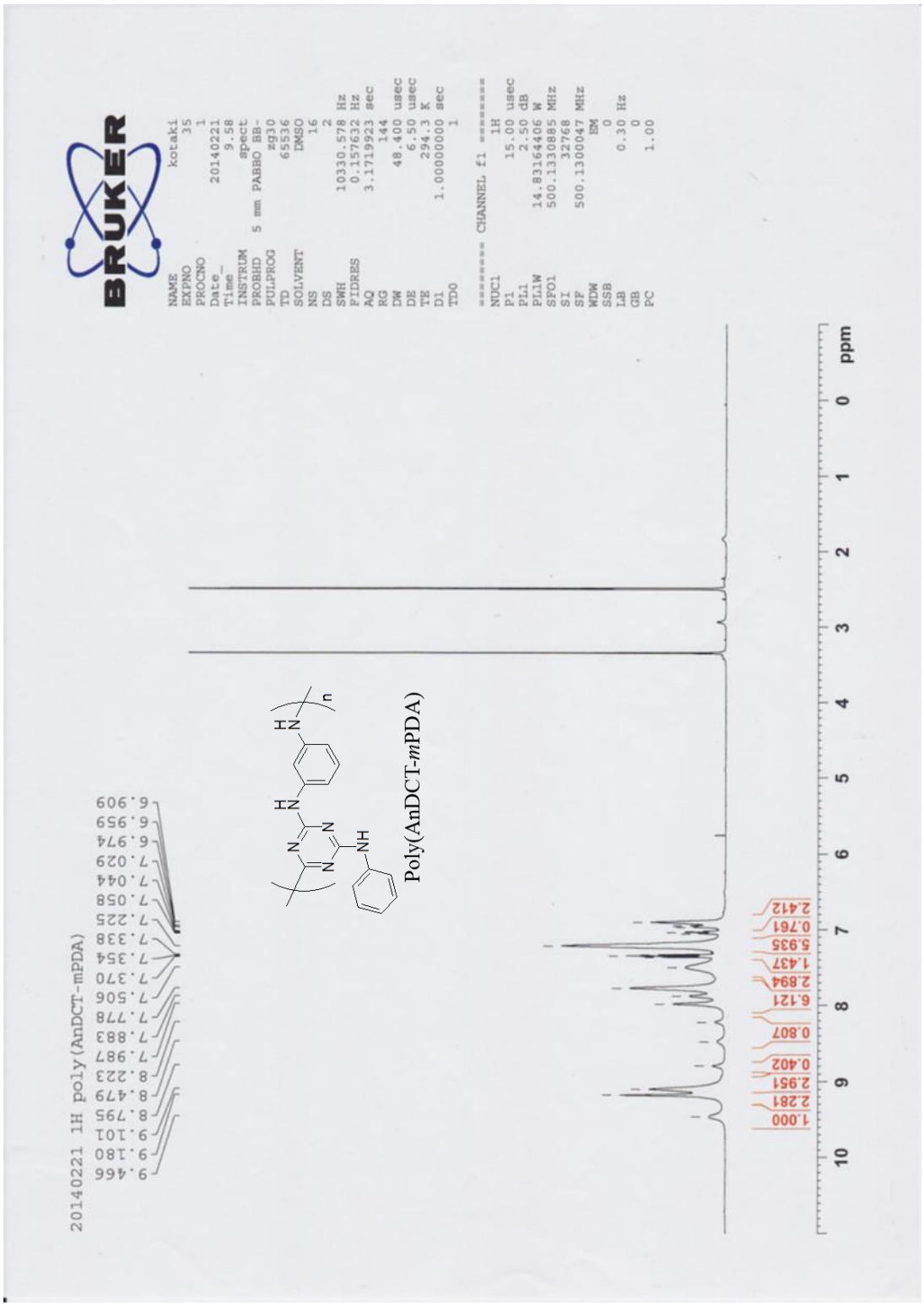


Figure S24. ^{1}H NMR spectra of poly(AnDCT-*m*PDA) (DMSO-d_6)

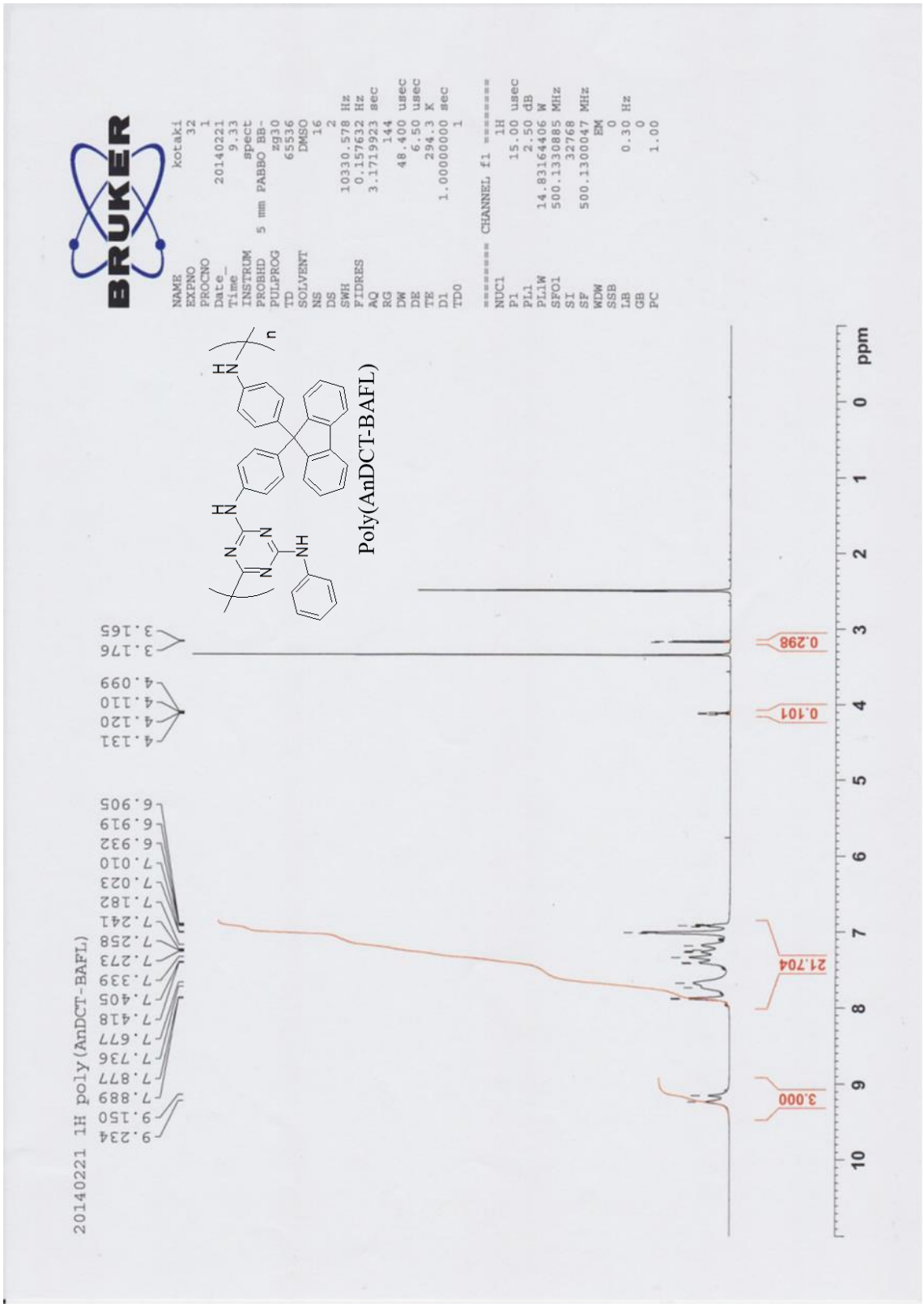


Figure S25. ^{1}H NMR spectra of poly(AnDCT-BAFL) (DMSO-d_6)

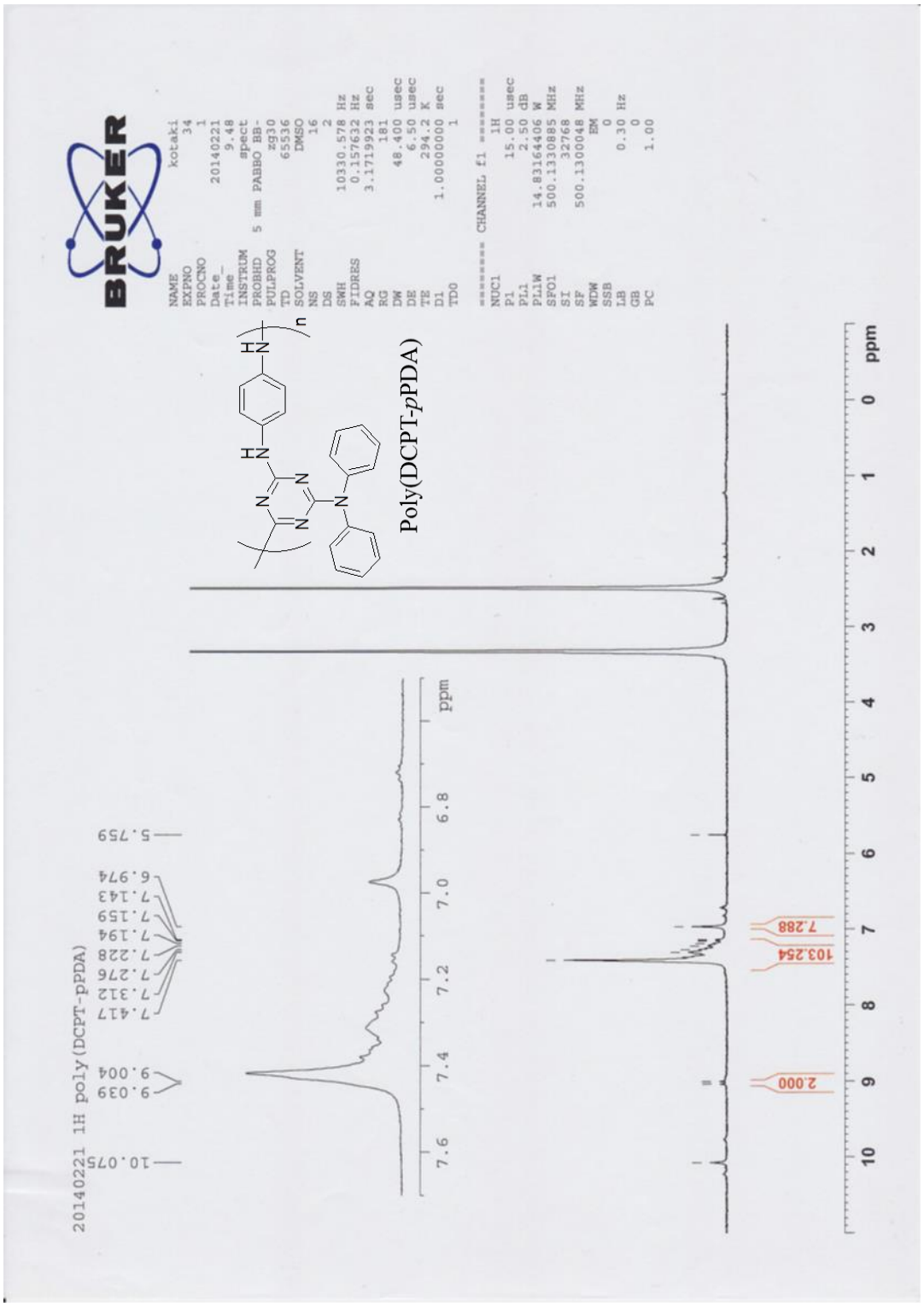


Figure S26. ^{1}H NMR spectra of poly(DCPT-*p*PDA) (DMSO-d_6)

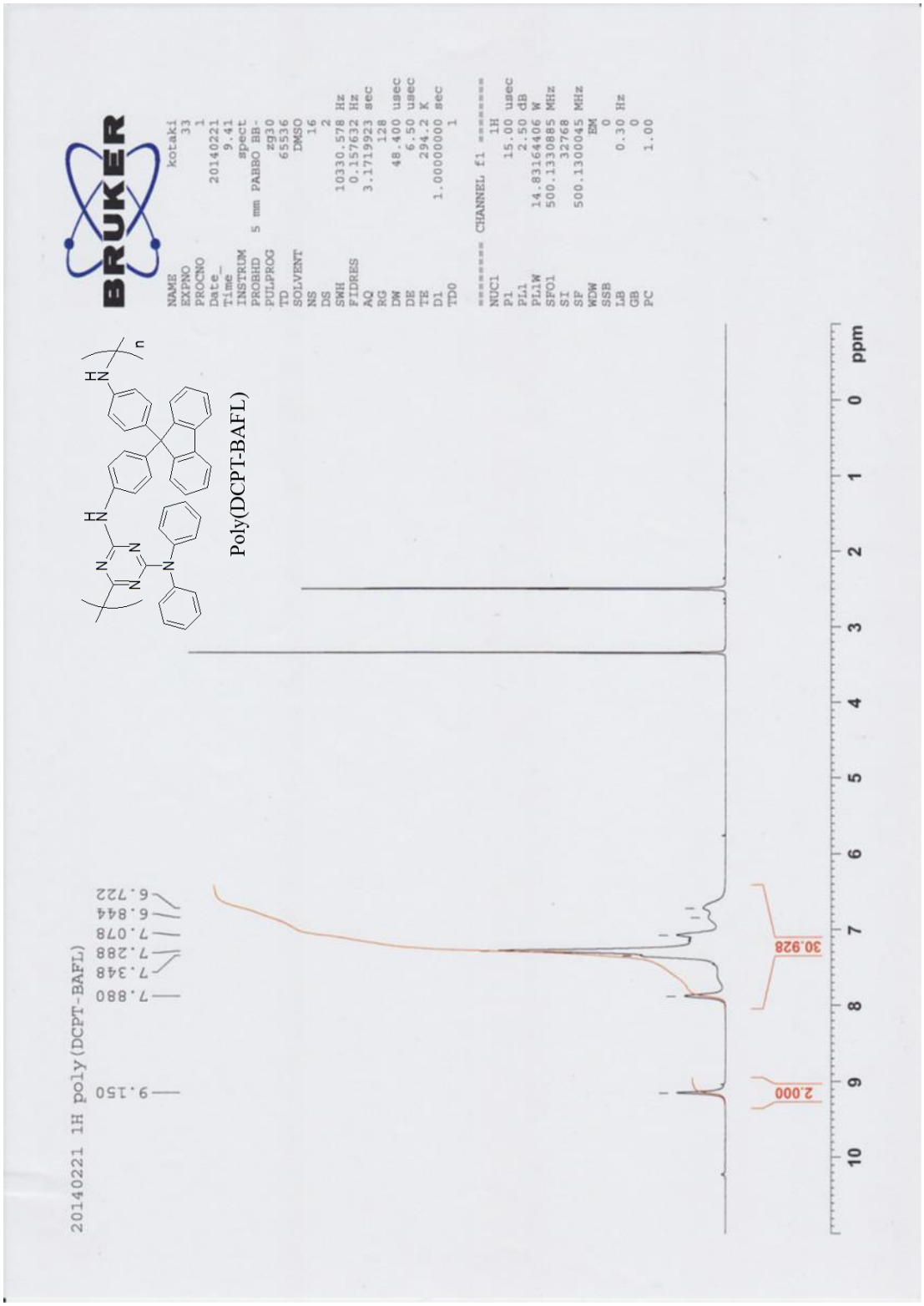


Figure S27. ^{1}H NMR spectra of poly(DCPT-BAFL) (DMSO-d_6)

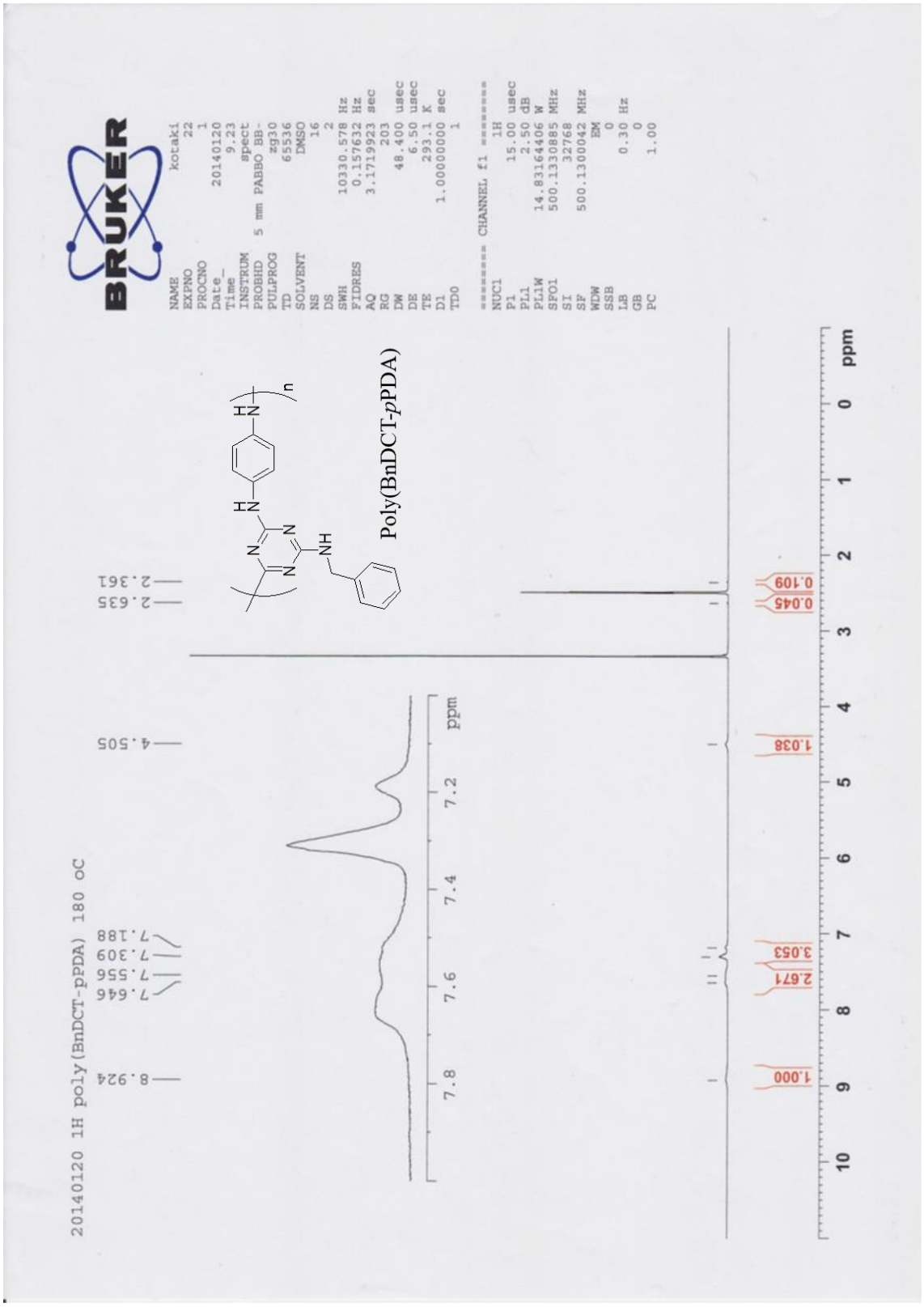


Figure S28. ^{1}H NMR spectra of poly(BnDCT-*p*PDA) (DMSO-d_6)

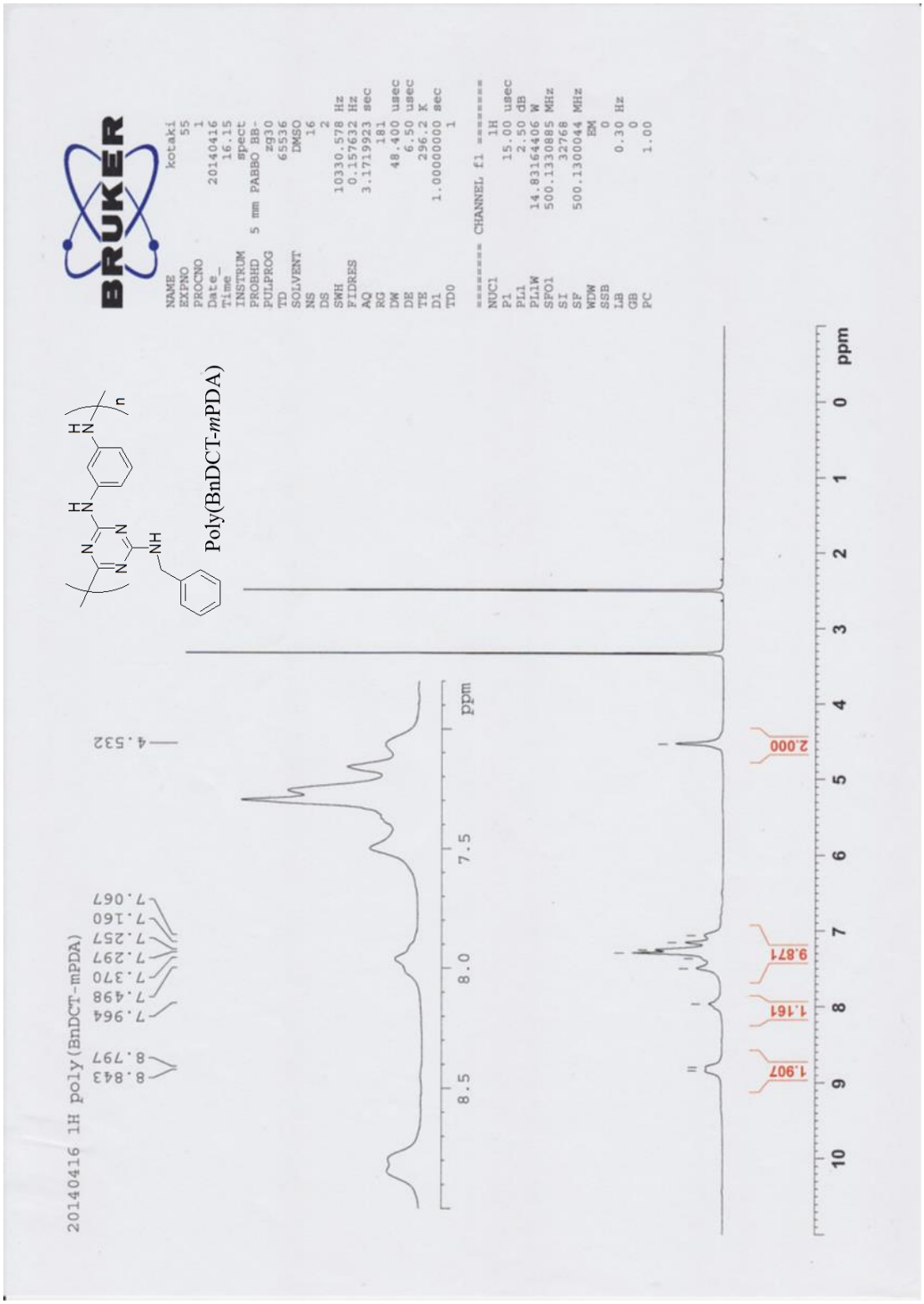


Figure S29. ^{1}H NMR spectra of poly(BnDCT-*m*PDA) (DMSO-d_6)

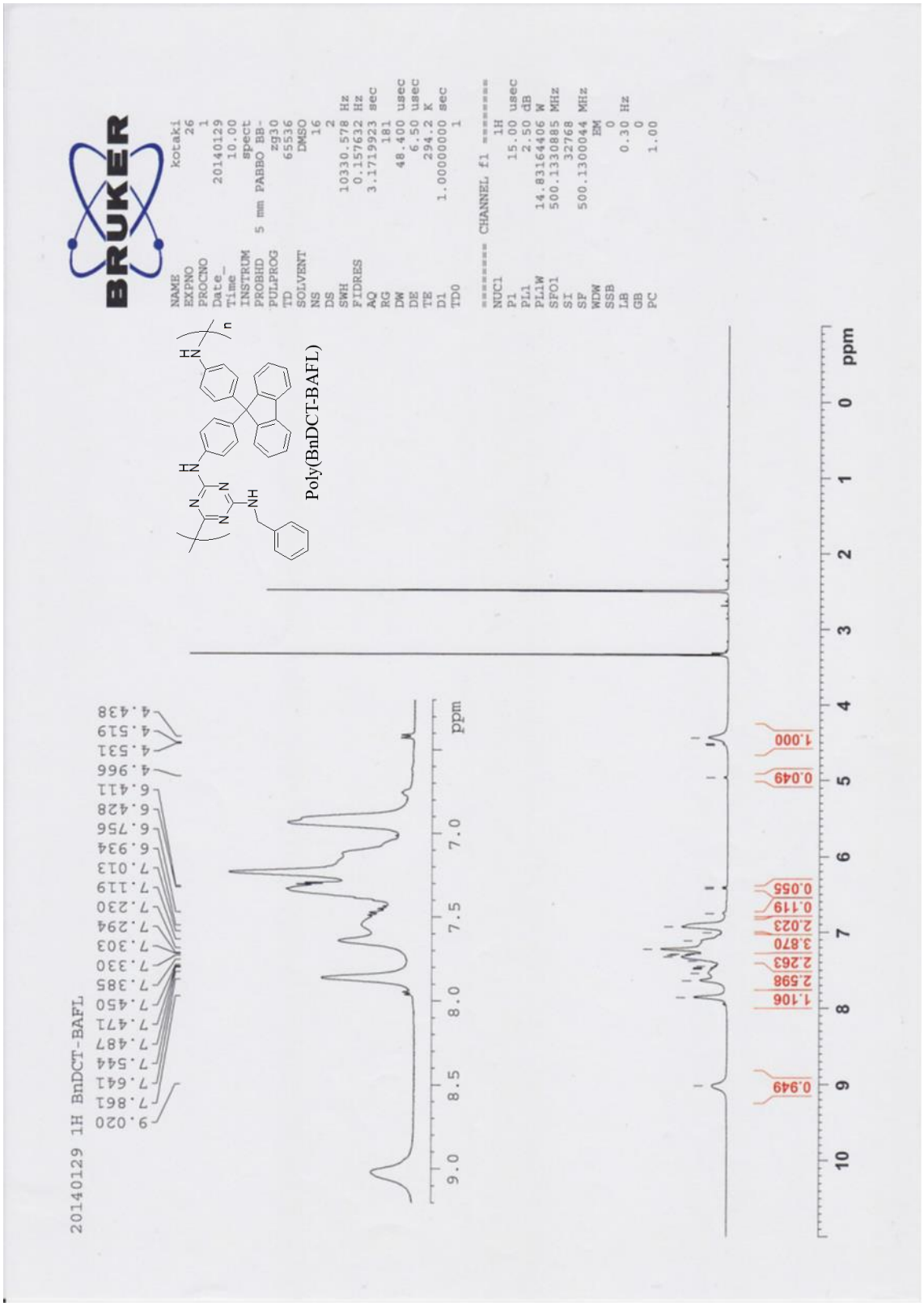


Figure S30. ^{1}H NMR spectra of poly(BnDCT-BAFL) (DMSO-d_6)

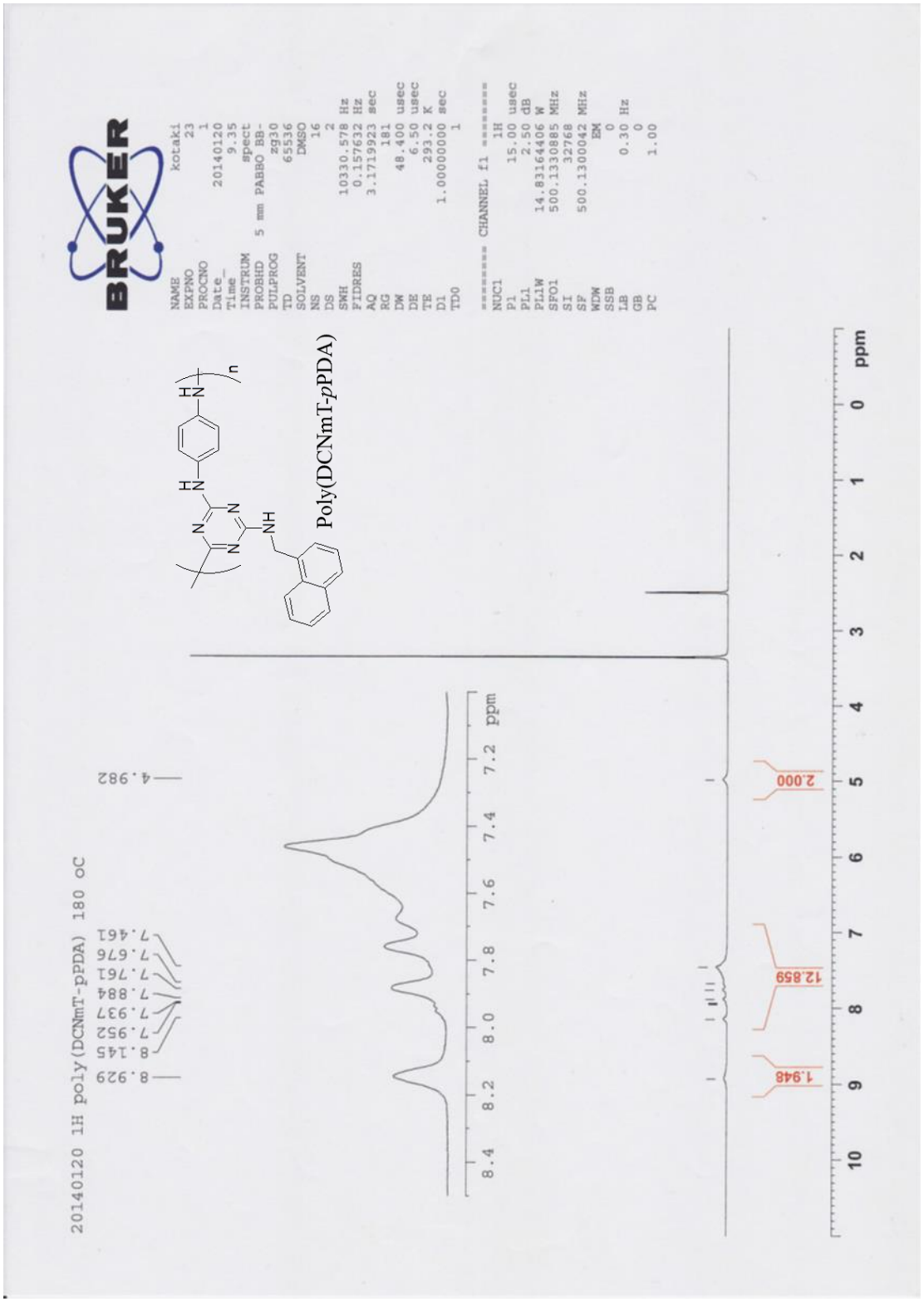


Figure S31. ^{1}H NMR spectra of poly(DCNmT-*p*PDA) (DMSO-d_6)

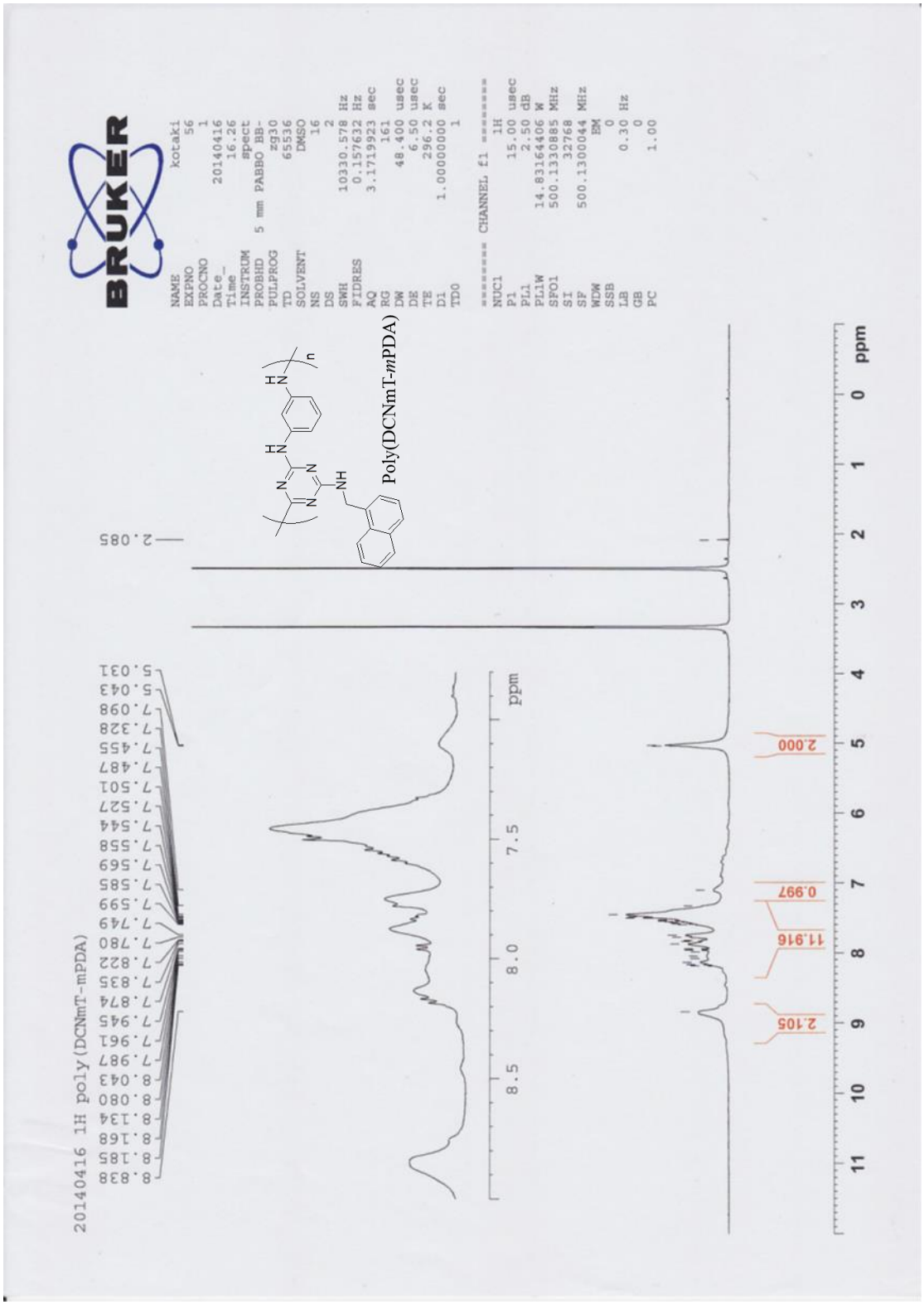


Figure S32. ^{1}H NMR spectra of poly(DCNmT-*m*PDA) (DMSO-d_6)

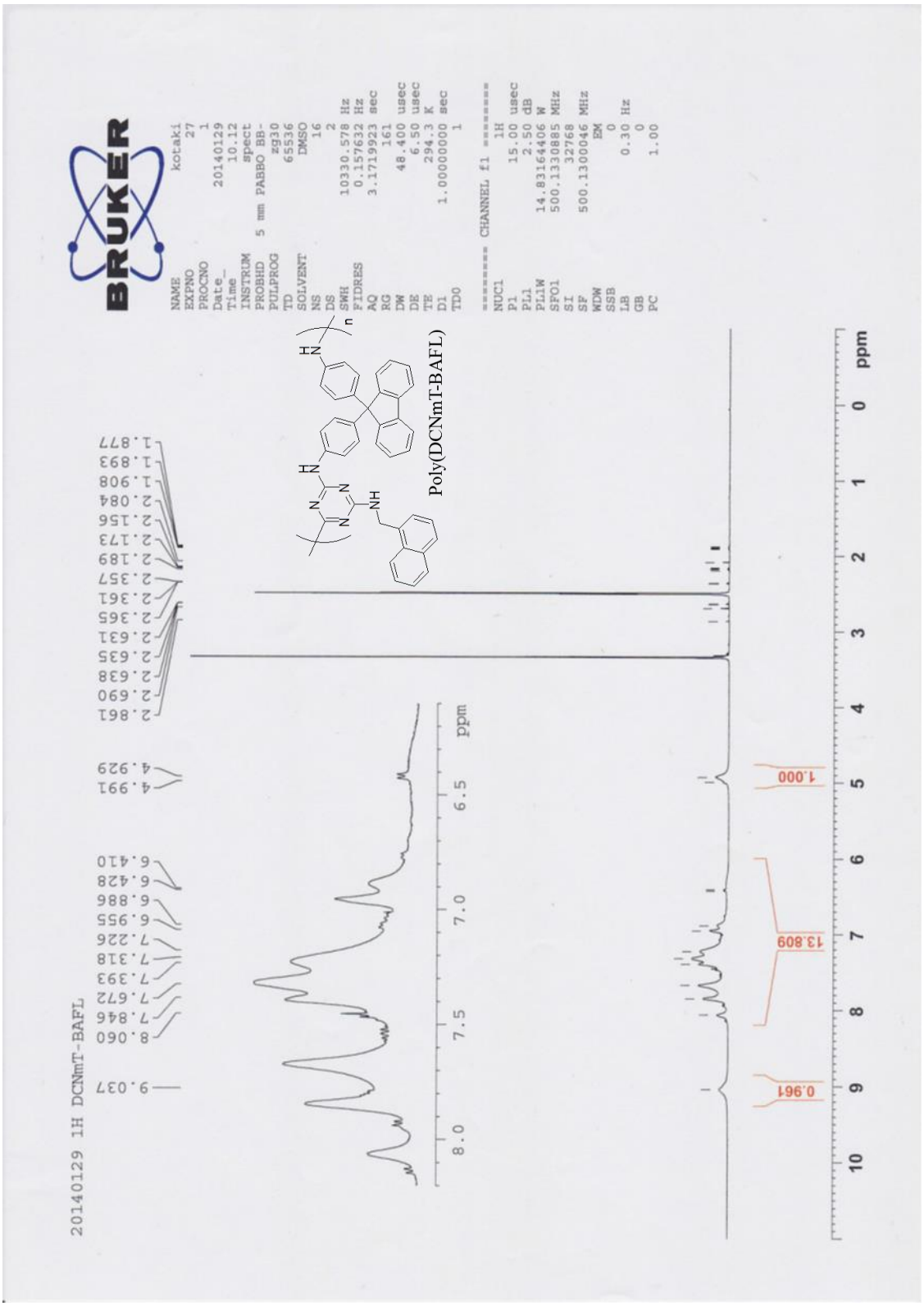


Figure S33. ^{1}H NMR spectra of poly(DCNmT-BAFL) (DMSO-d_6)

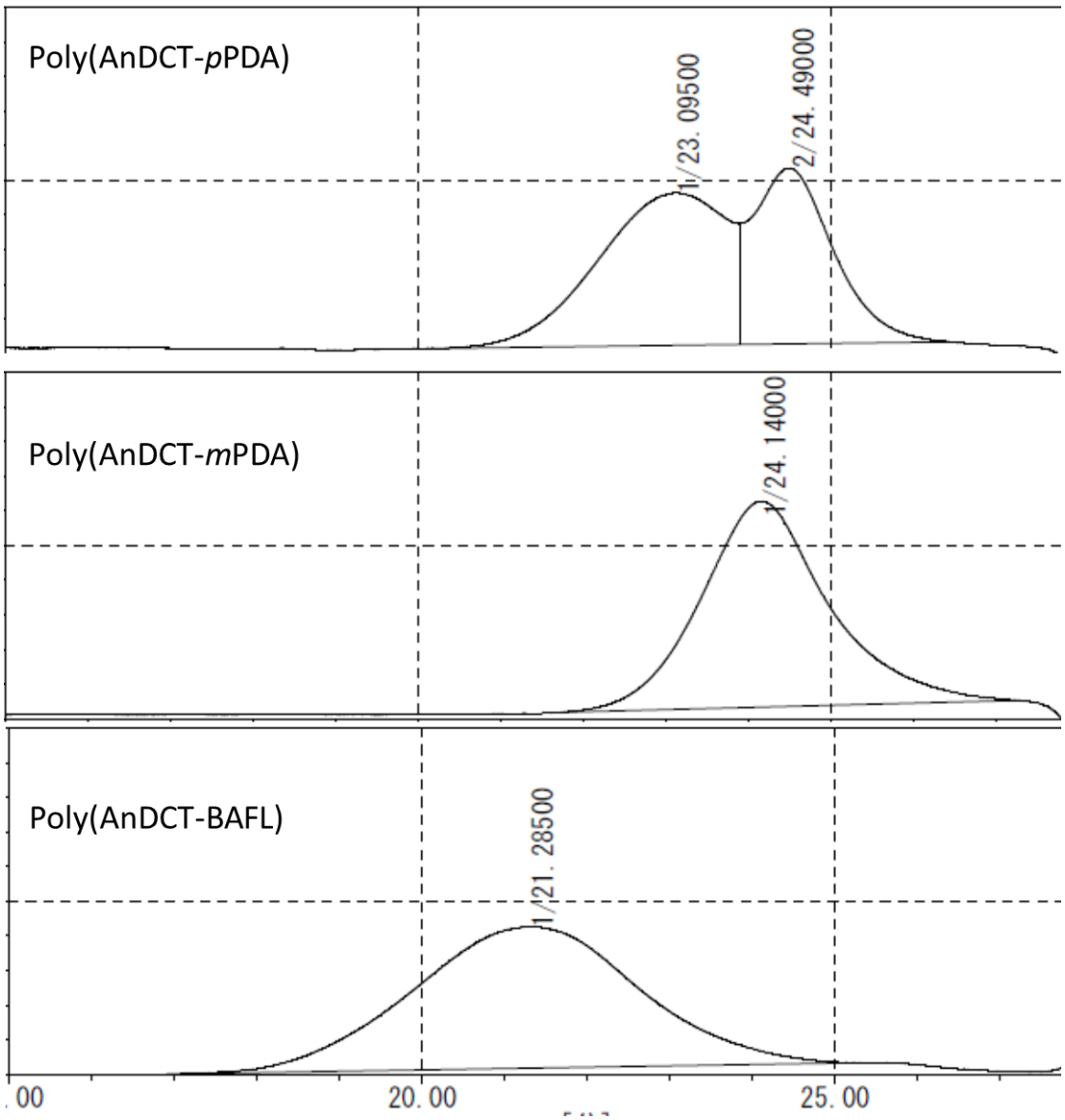


Figure S34. GPC profiles of AnDCT-based PG polymers (NMP, LiBr)

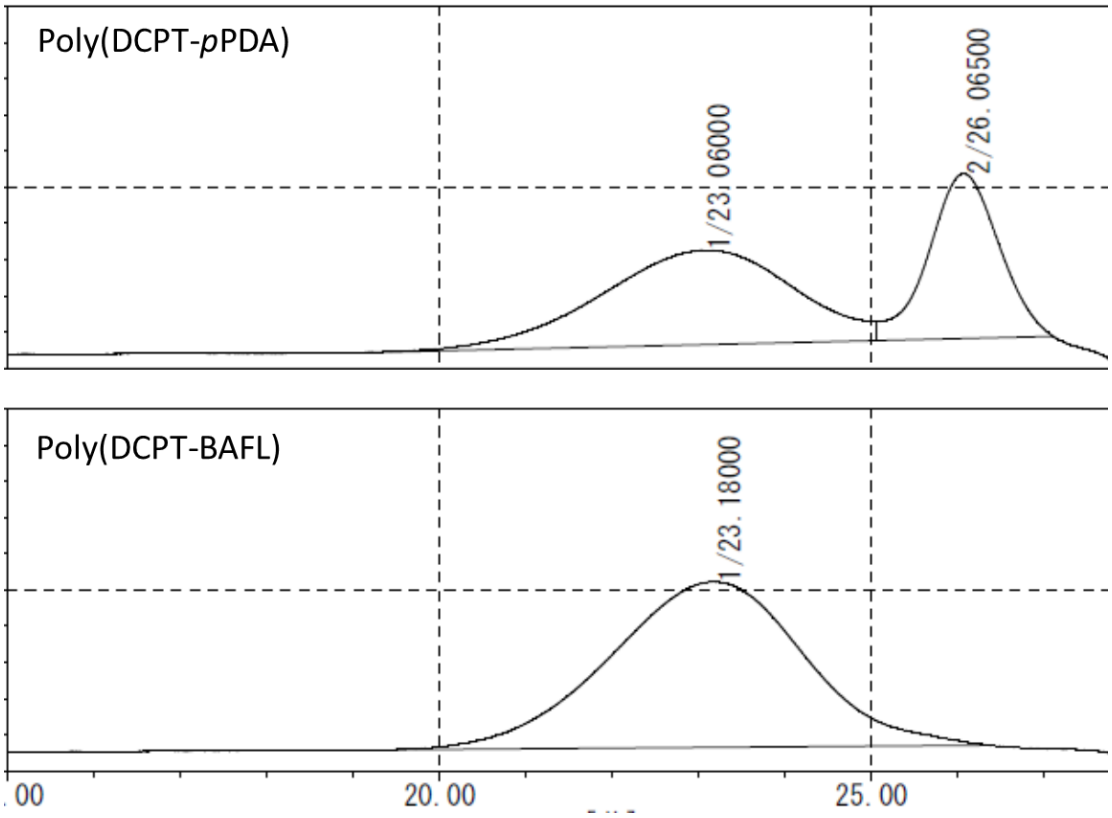


Figure S35. GPC profiles of DCPT-based PG polymers (NMP, LiBr)

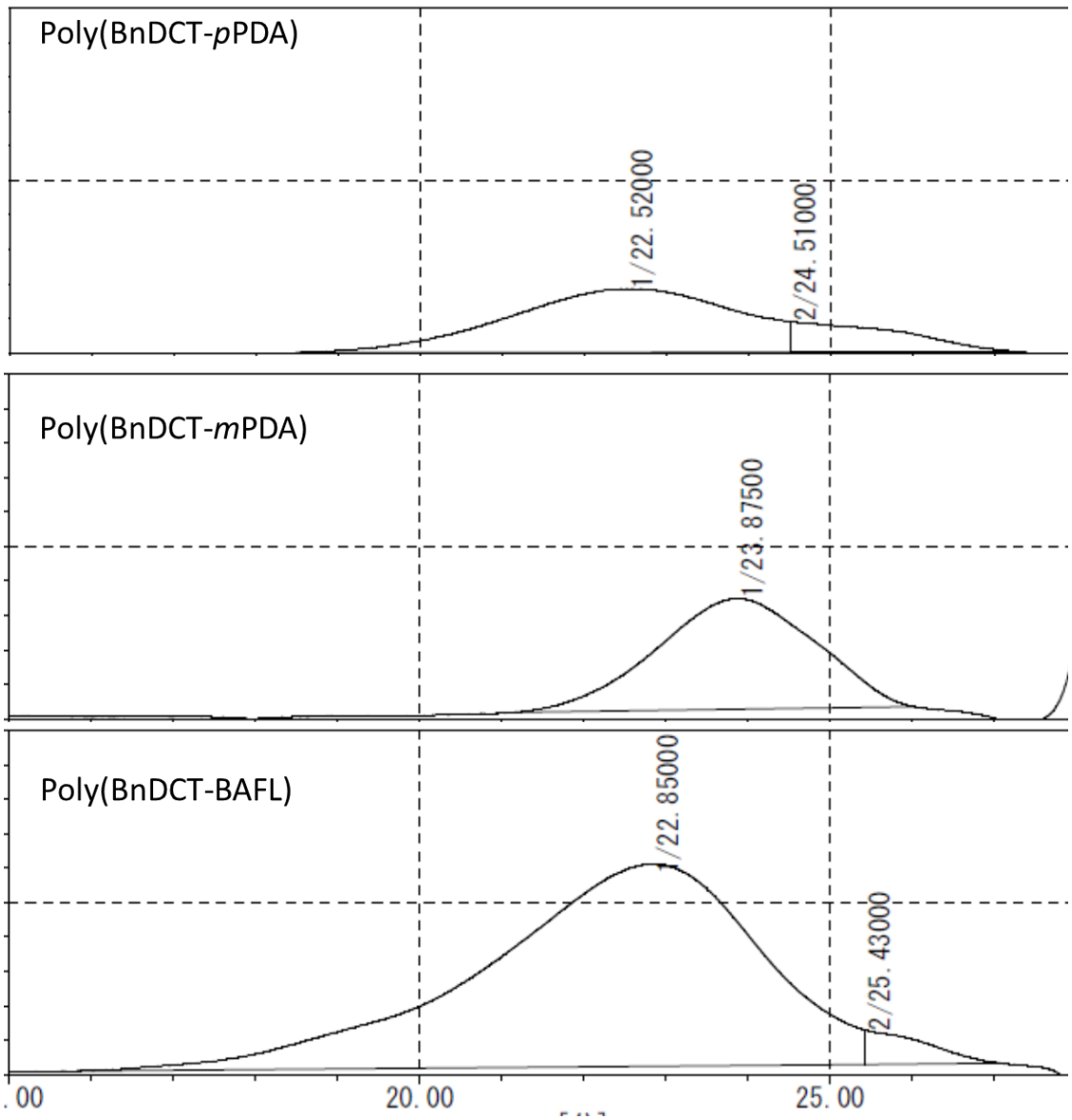


Figure S36. GPC profiles of BnDCT-based PG polymers (NMP, LiBr)

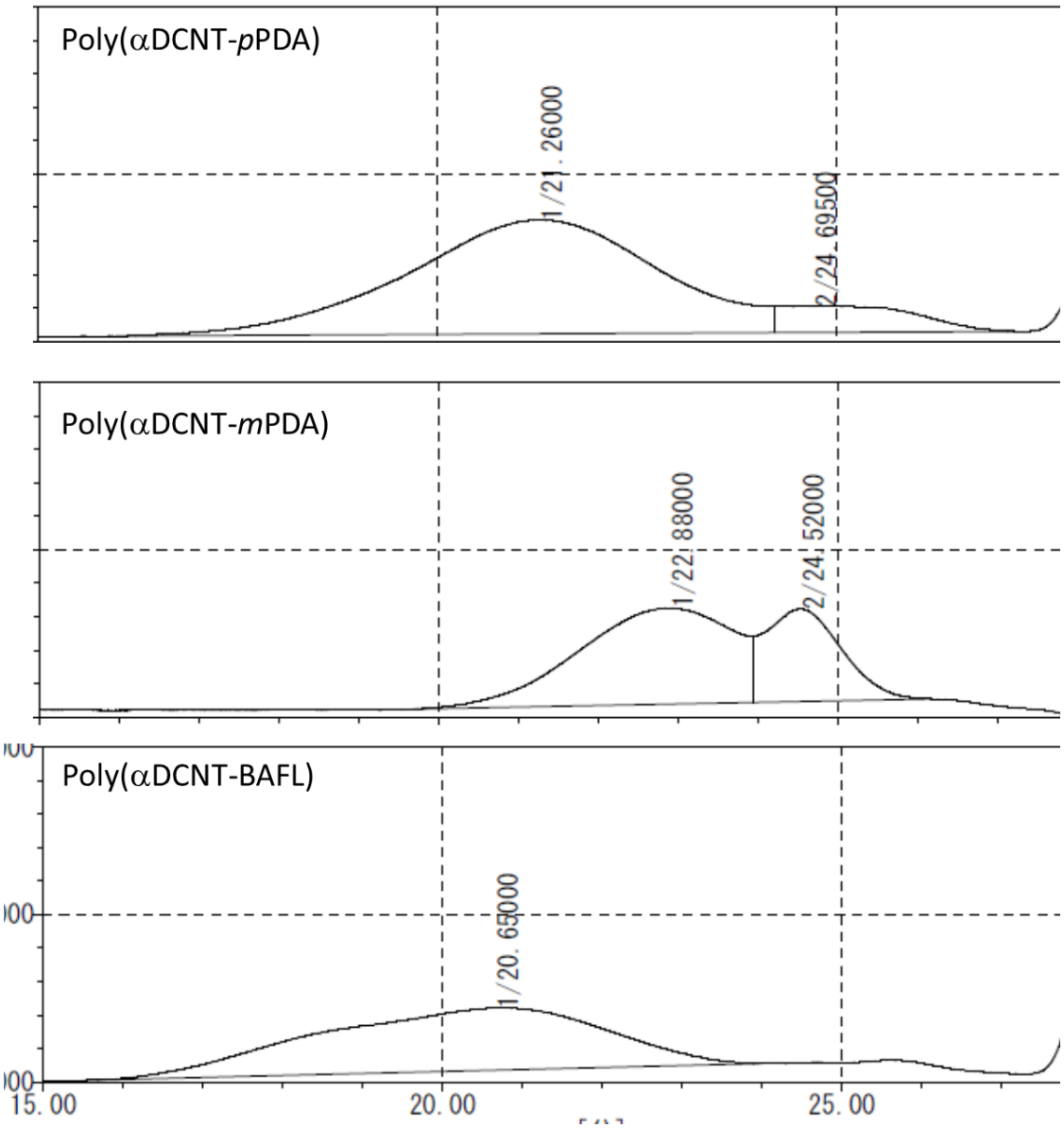


Figure S37. GPC profiles of αDCNT-based PG polymers (NMP, LiBr)

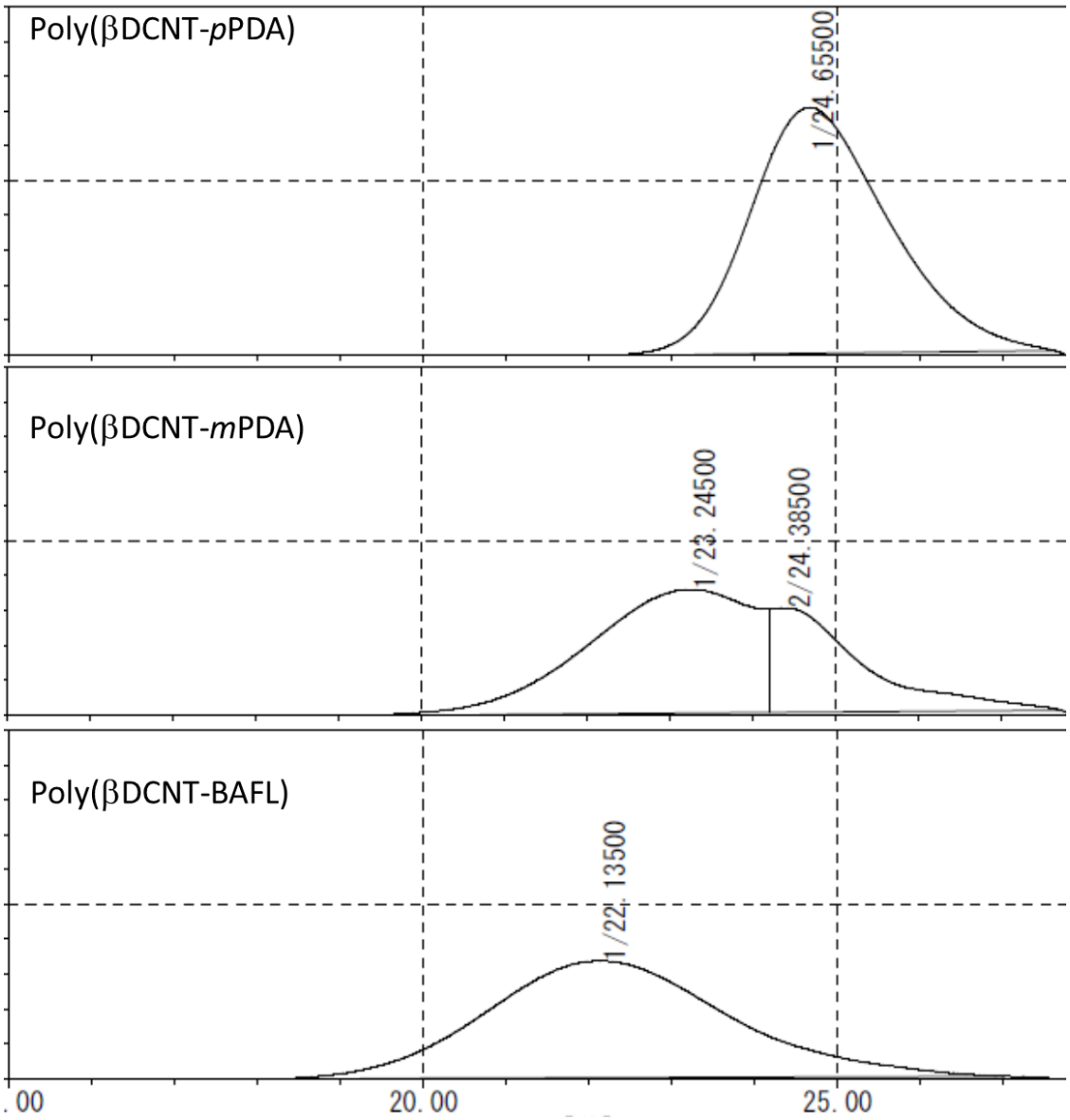


Figure S38. GPC profiles of βDCNT-based PG polymers (NMP, LiBr)

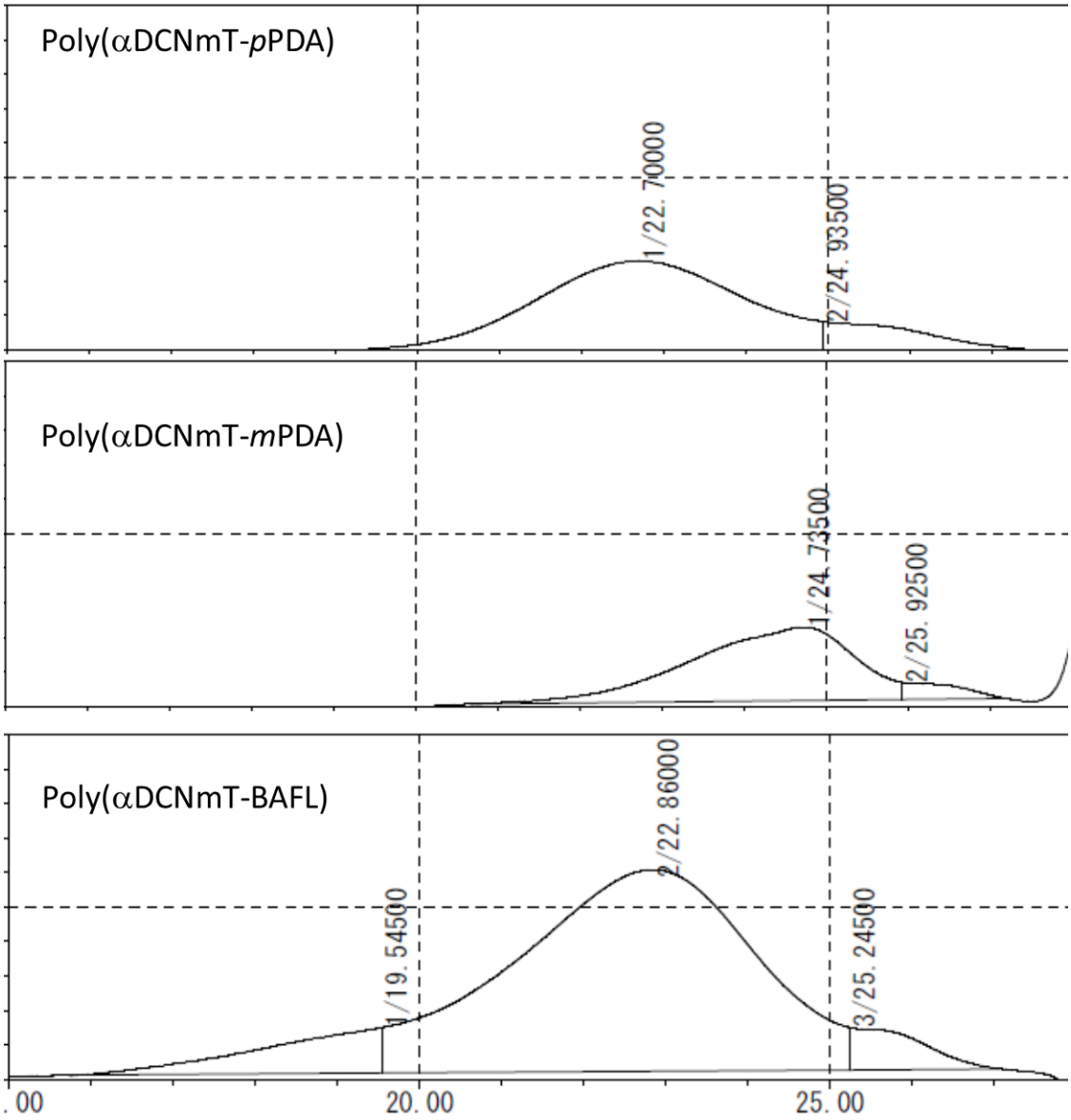


Figure S39. GPC profiles of αDCNmT-based PG polymers (NMP, LiBr)

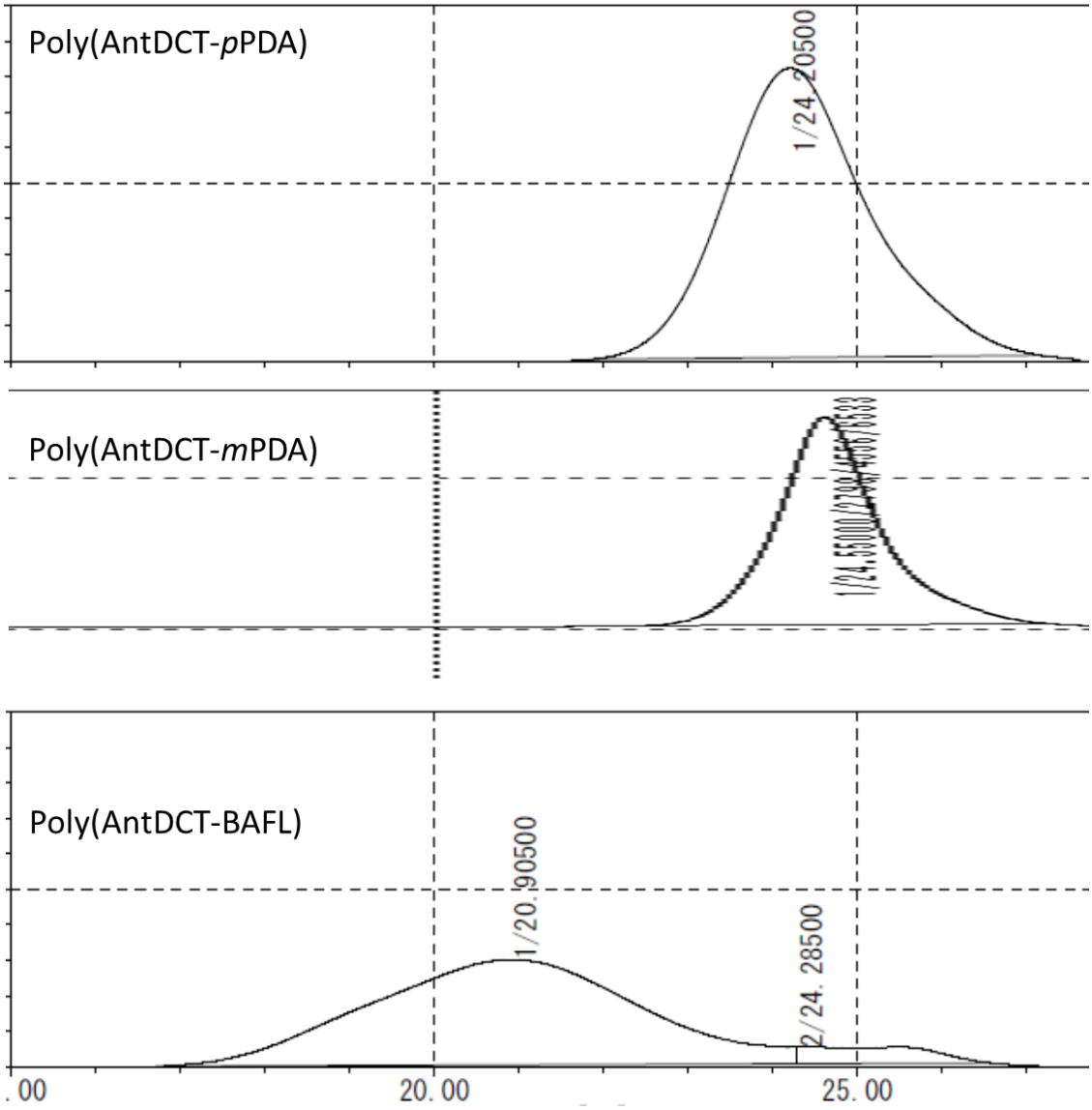


Figure S40. GPC profiles of AntDCT-based PG polymers (NMP, LiBr)

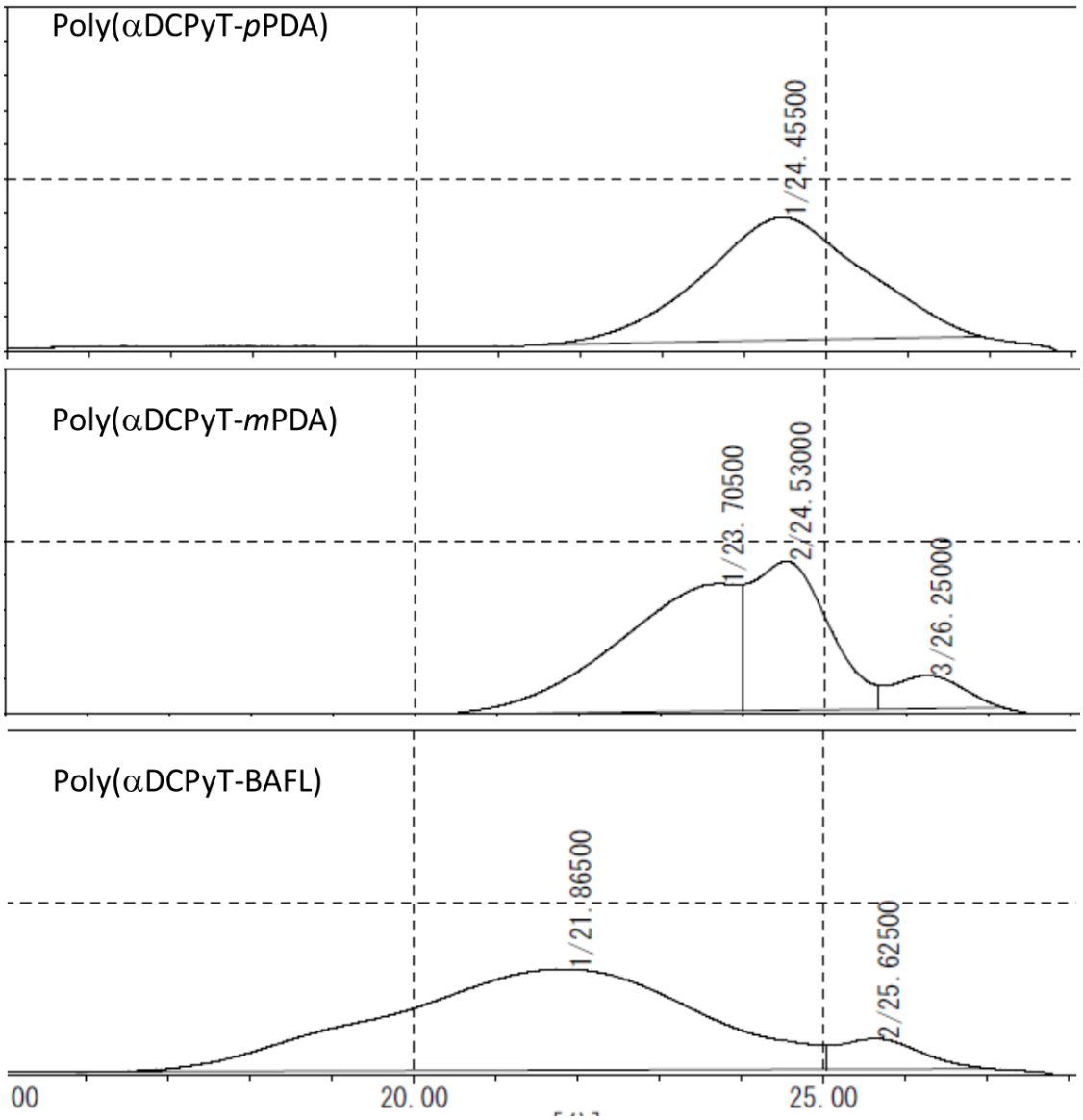


Figure S41. GPC profiles of αDCPyT-based PG polymers (NMP, LiBr)