

Supporting Information

Poly[N-(2-chloroprop-2-en-1-yl)aniline]s: Sythesis, polymer analogous reaction, and Physicochemical Properties

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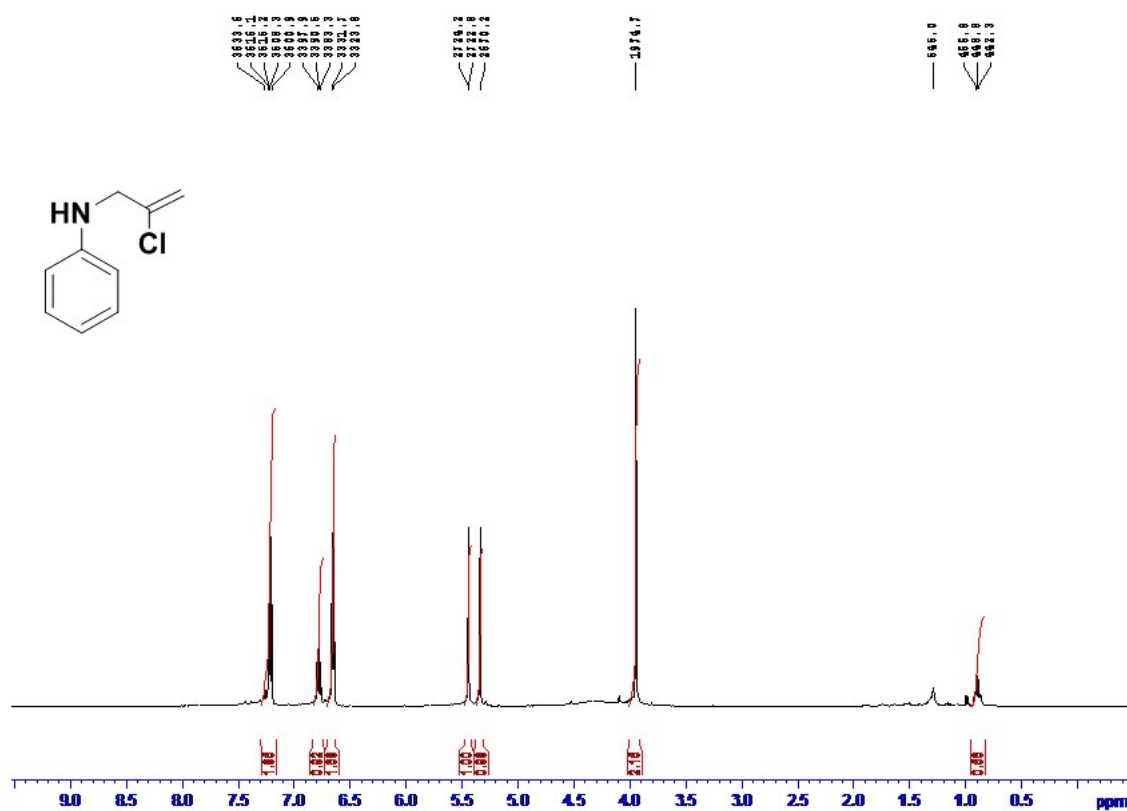


Figure S1. ¹H NMR spectra of N-(2-chloroprop-2-en-1-yl)aniline

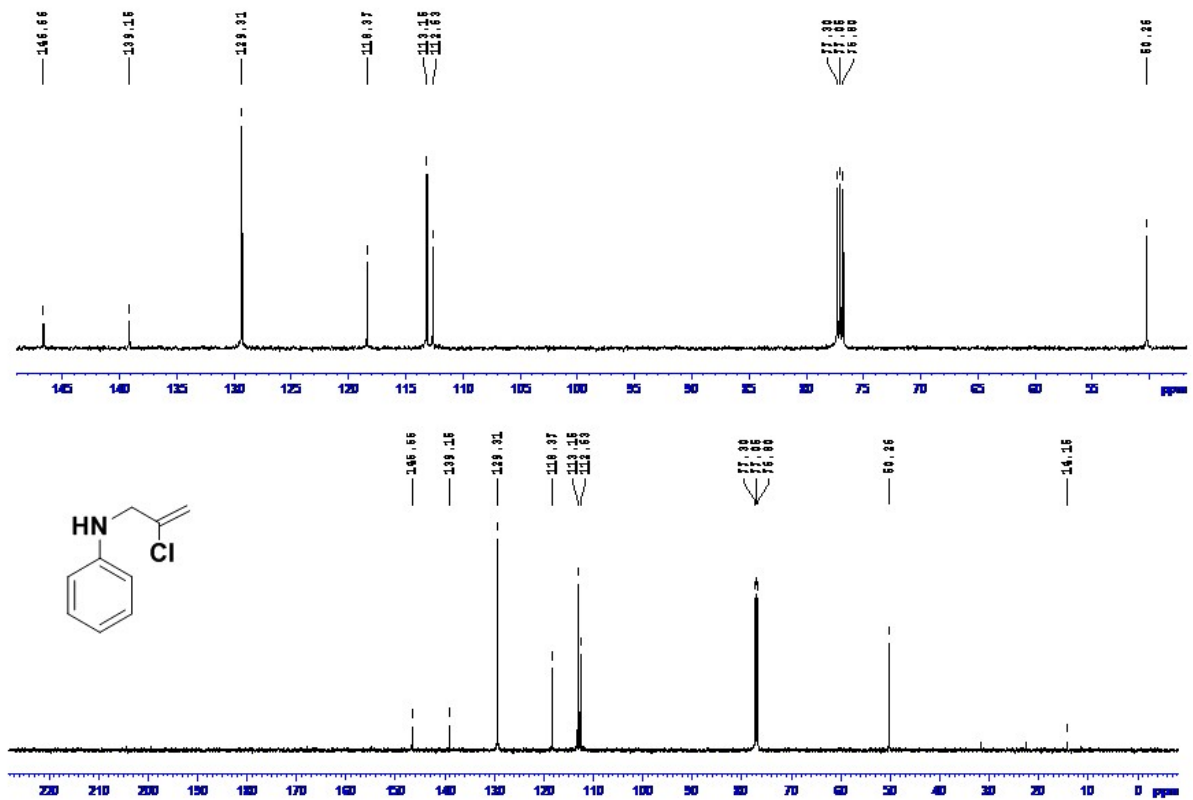


Figure S2. ^{13}C NMR spectra of N-(2-chloroprop-2-en-1-yl)aniline

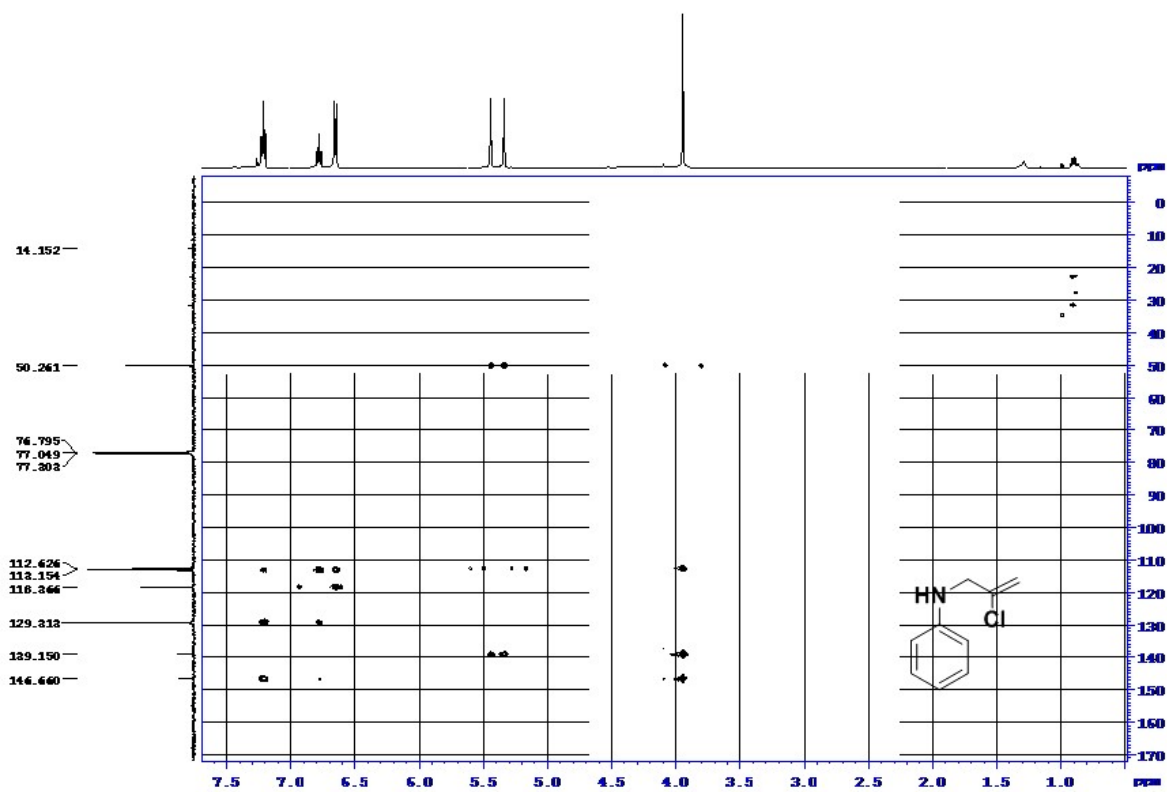


Figure S3. ^1H - ^{15}N HMBC spectra of N-(2-chloroprop-2-en-1-yl)aniline

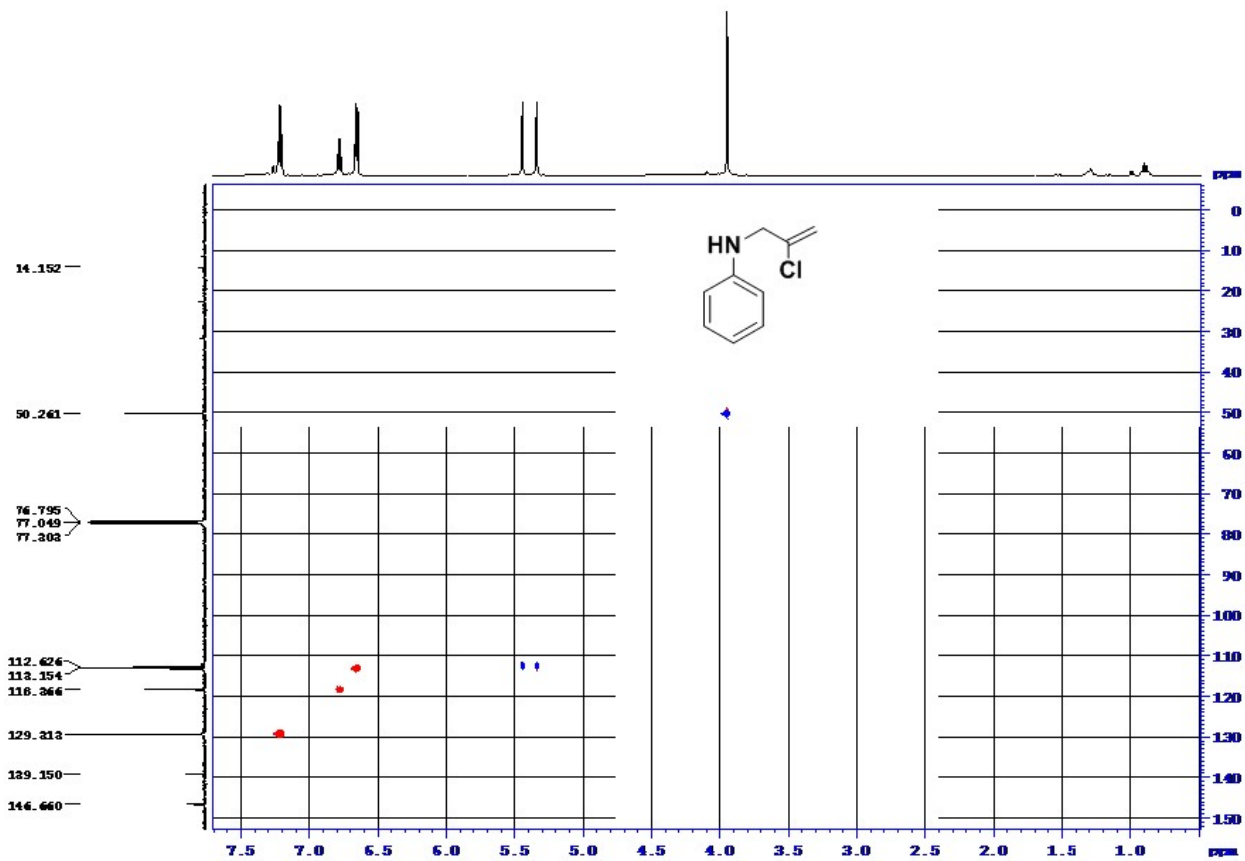


Figure S4. ^1H - ^{13}C HSQC spectra of N-(2-chloroprop-2-en-1-yl)aniline

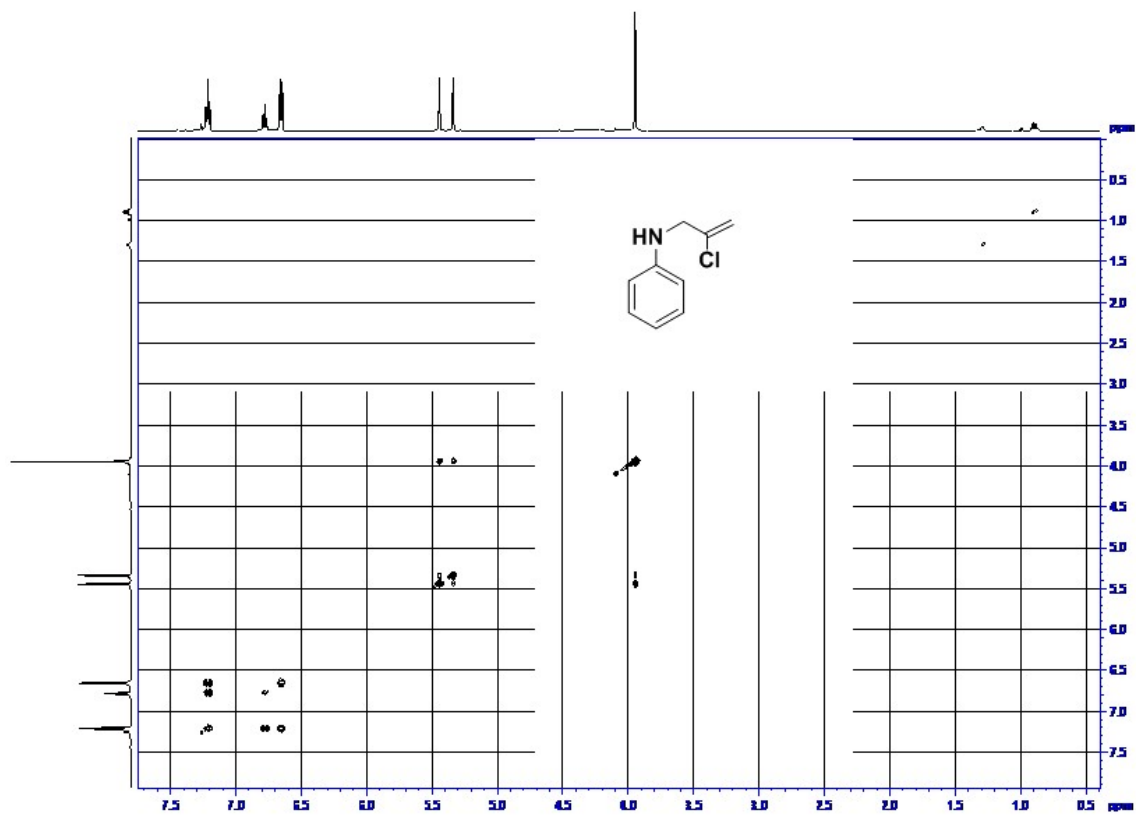


Figure S5. ^1H - ^{13}C COSY spectra of N-(2-chloroprop-2-en-1-yl)aniline

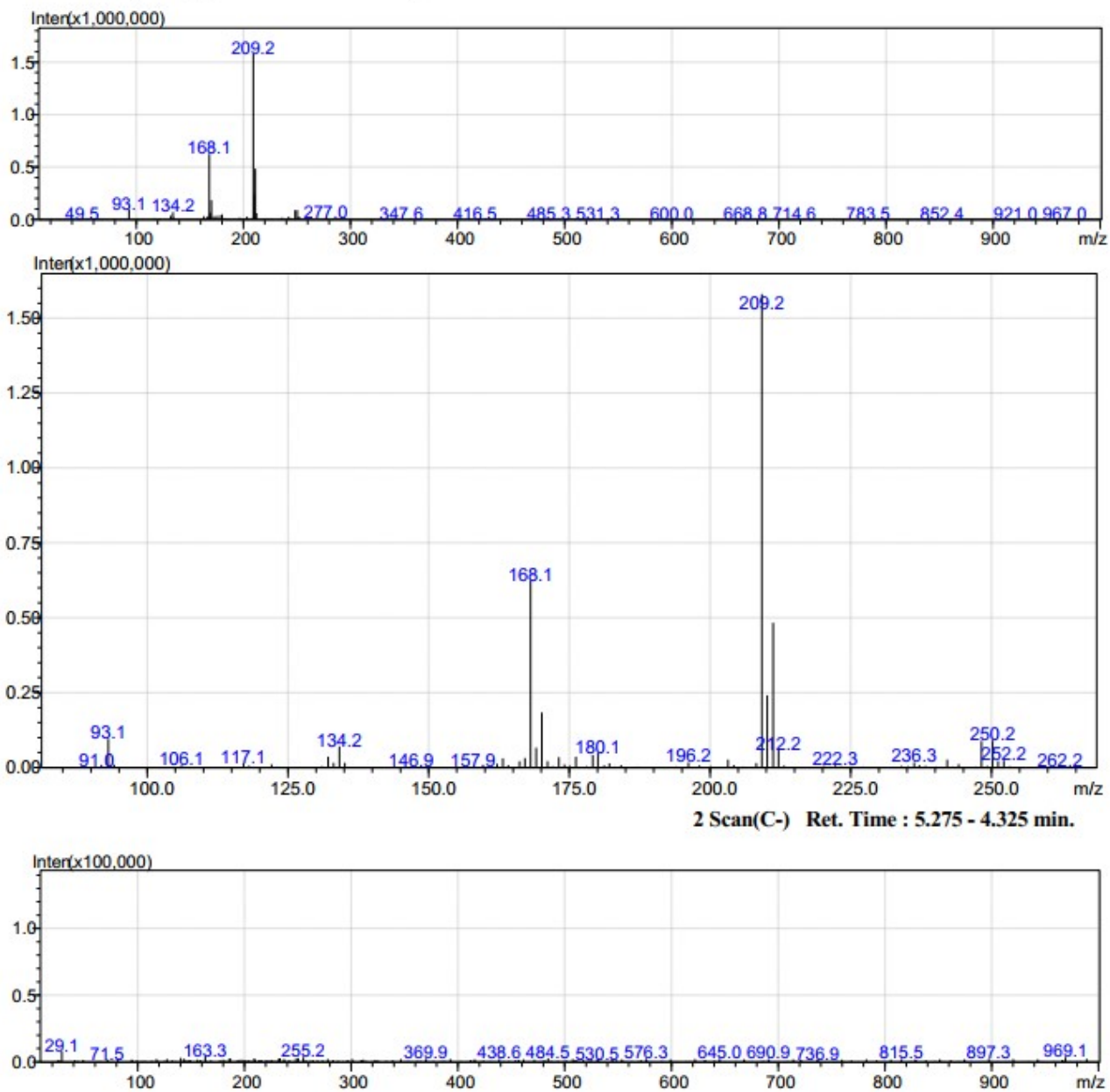


Figure S6. Mass spectrum of N-(2-chloroprop-2-en-1-yl)aniline

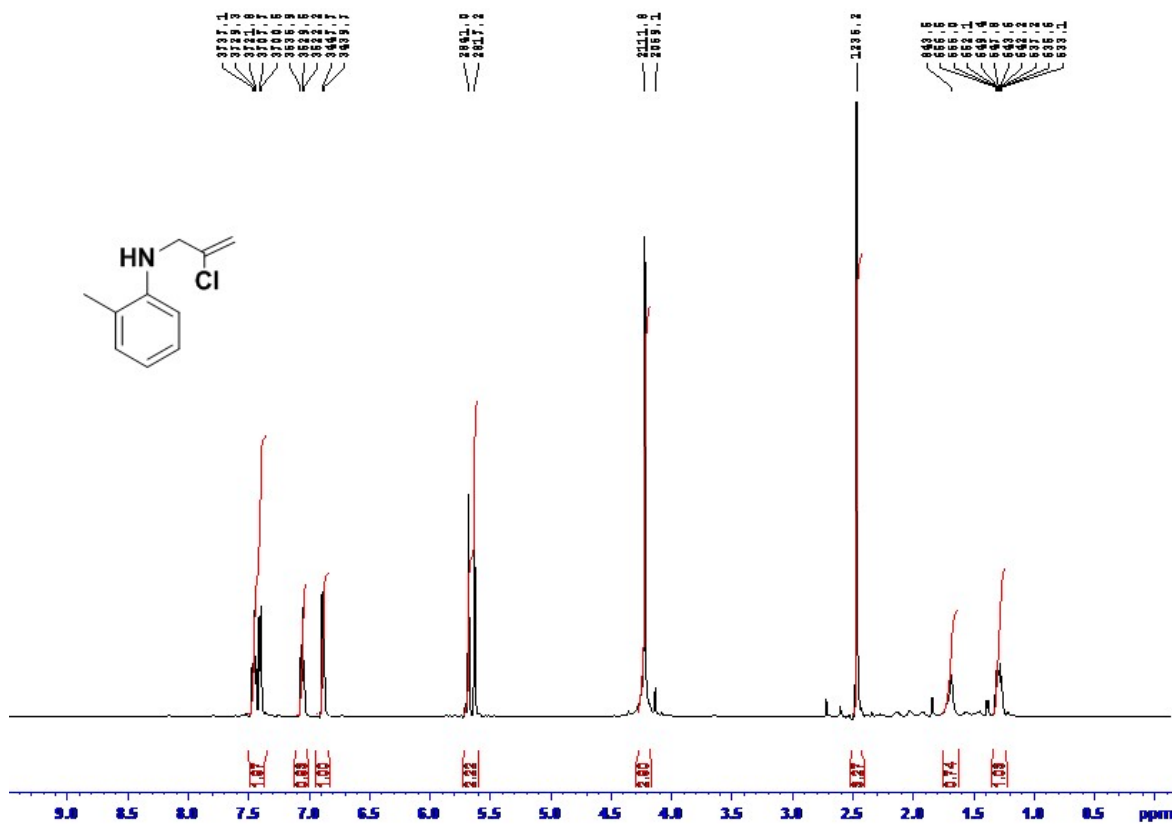


Figure S7. ^1H NMR spectra of N-(2-chloroprop-2-en-1-yl)-2-methylaniline

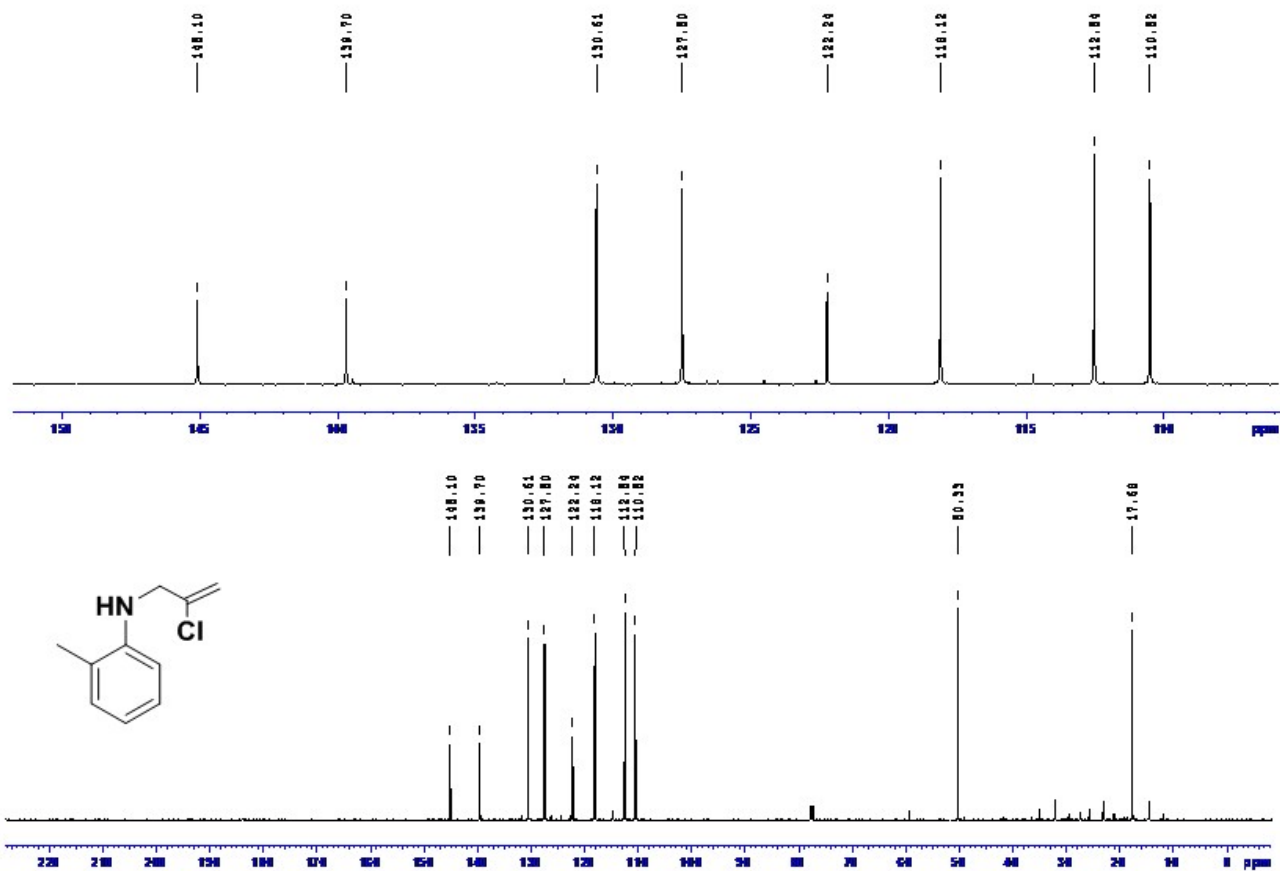


Figure S8. ^{13}C NMR spectra of N-(2-chloroprop-2-en-1-yl)-2-methylaniline

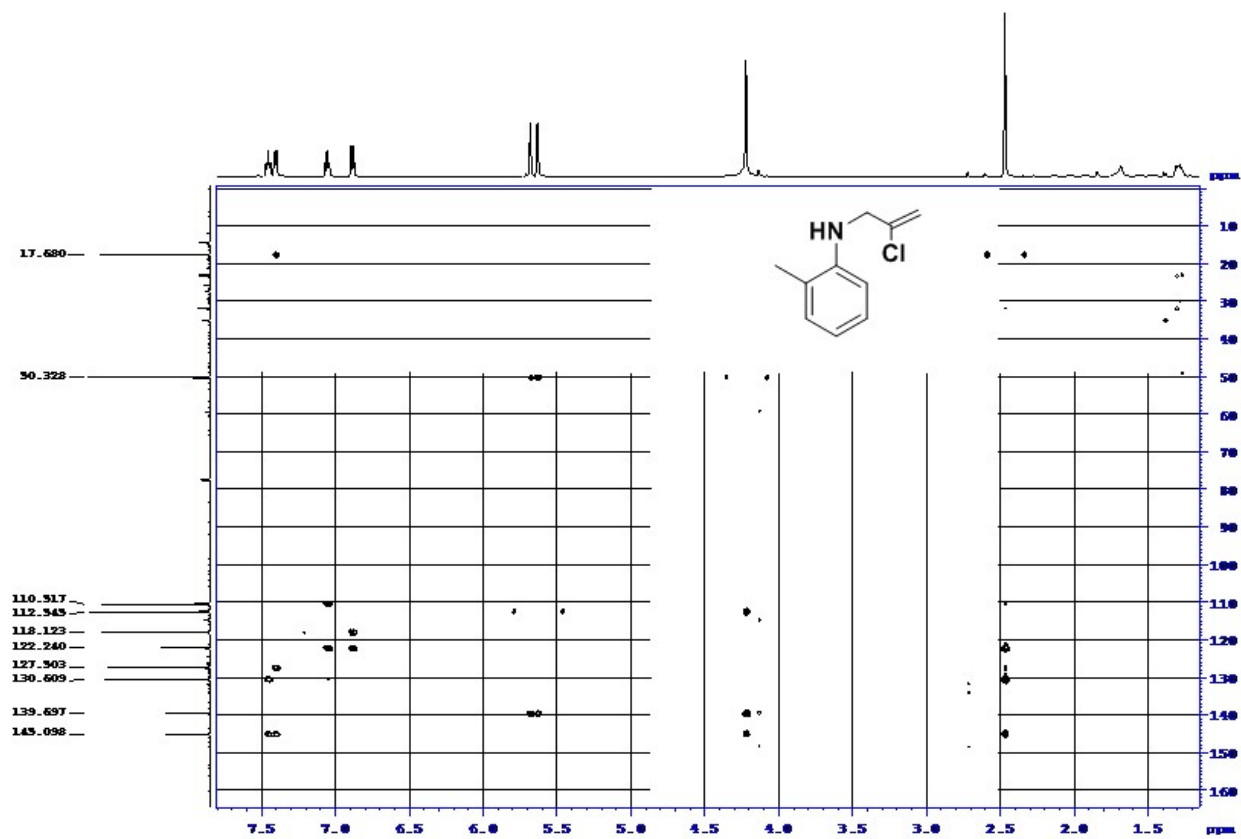


Figure S9. ^1H - ^{15}N HMBC spectra of N-(2-chloroprop-2-en-1-yl)-2-methylaniline

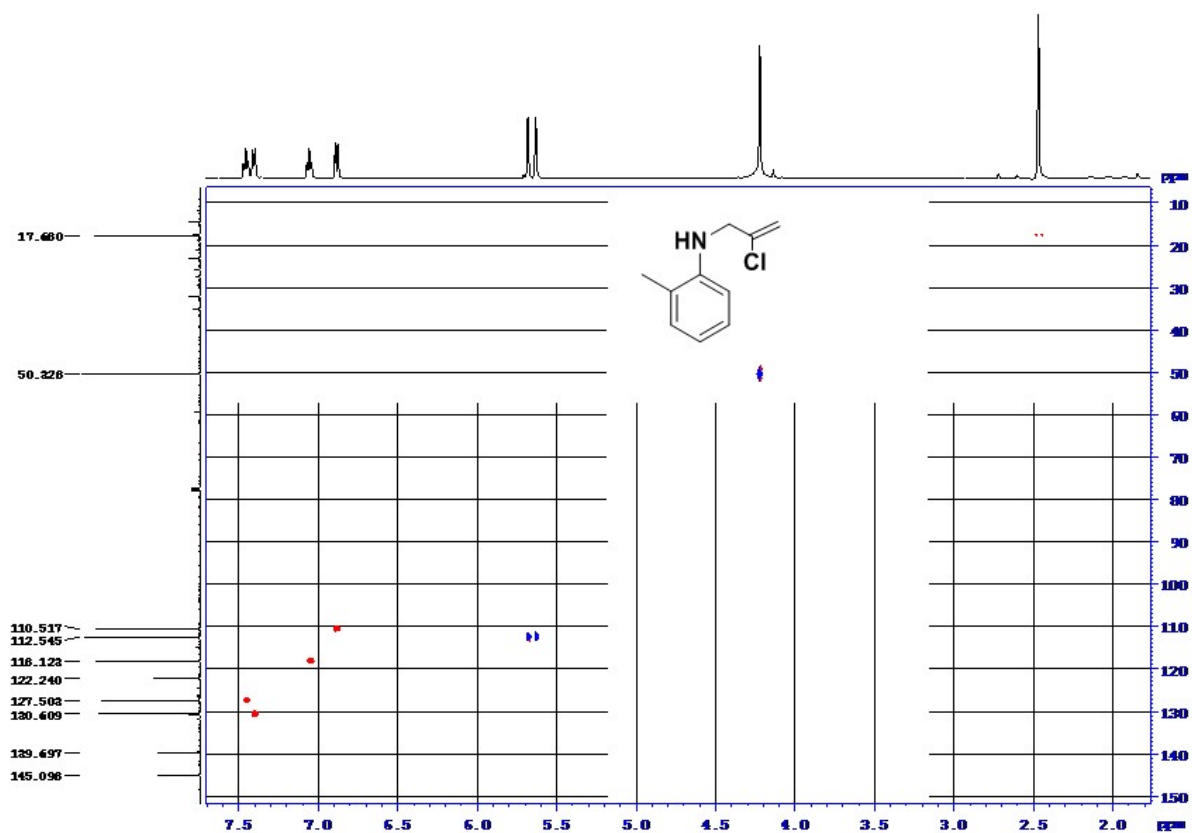


Figure S10. ^1H - ^{13}C HSQC spectra of N-(2-chloroprop-2-en-1-yl)-2-methylaniline

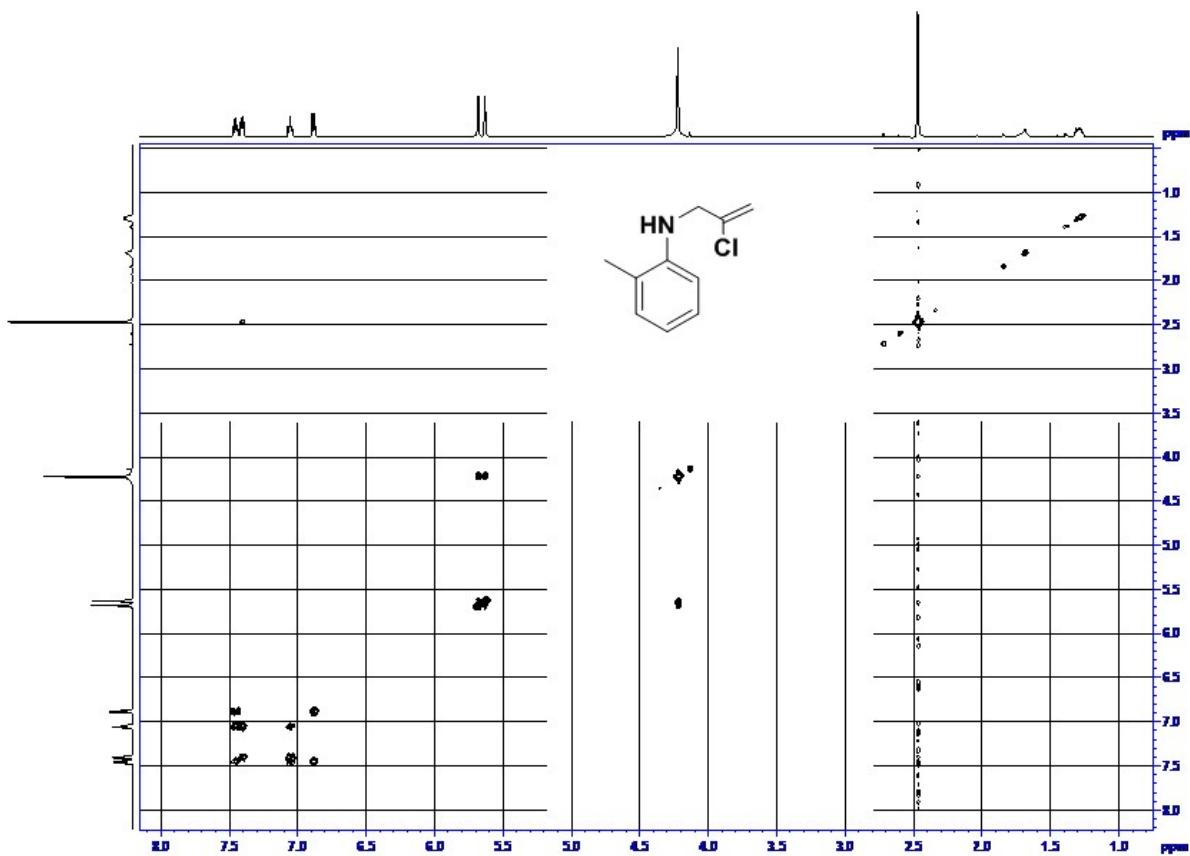


Figure S11. ^1H - ^{13}C COSY spectra of N-(2-chloroprop-2-en-1-yl)-2-methylaniline

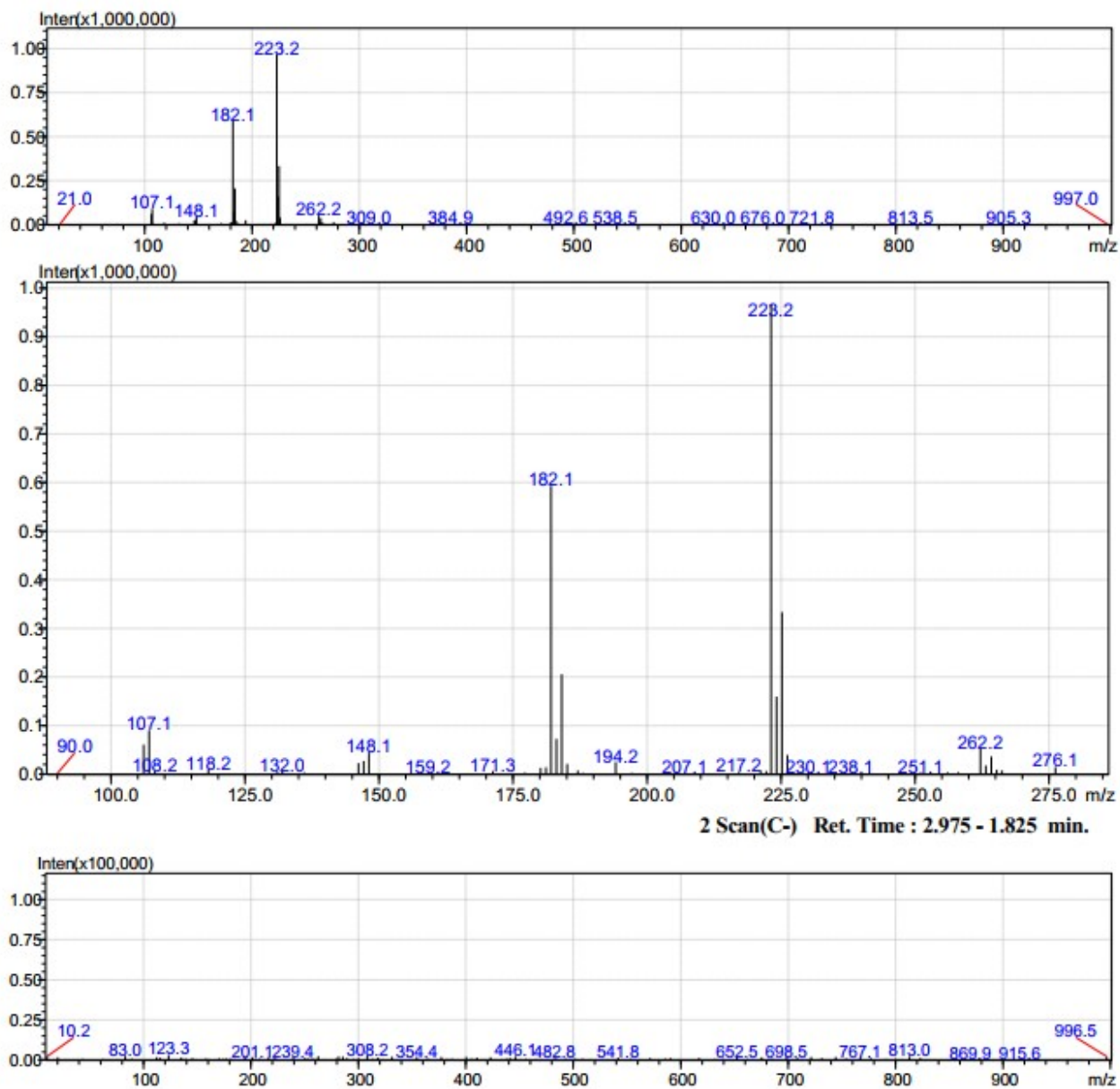


Figure S12. Mass spectrum of N-(2-chloroprop-2-en-1-yl)-2-methylaniline

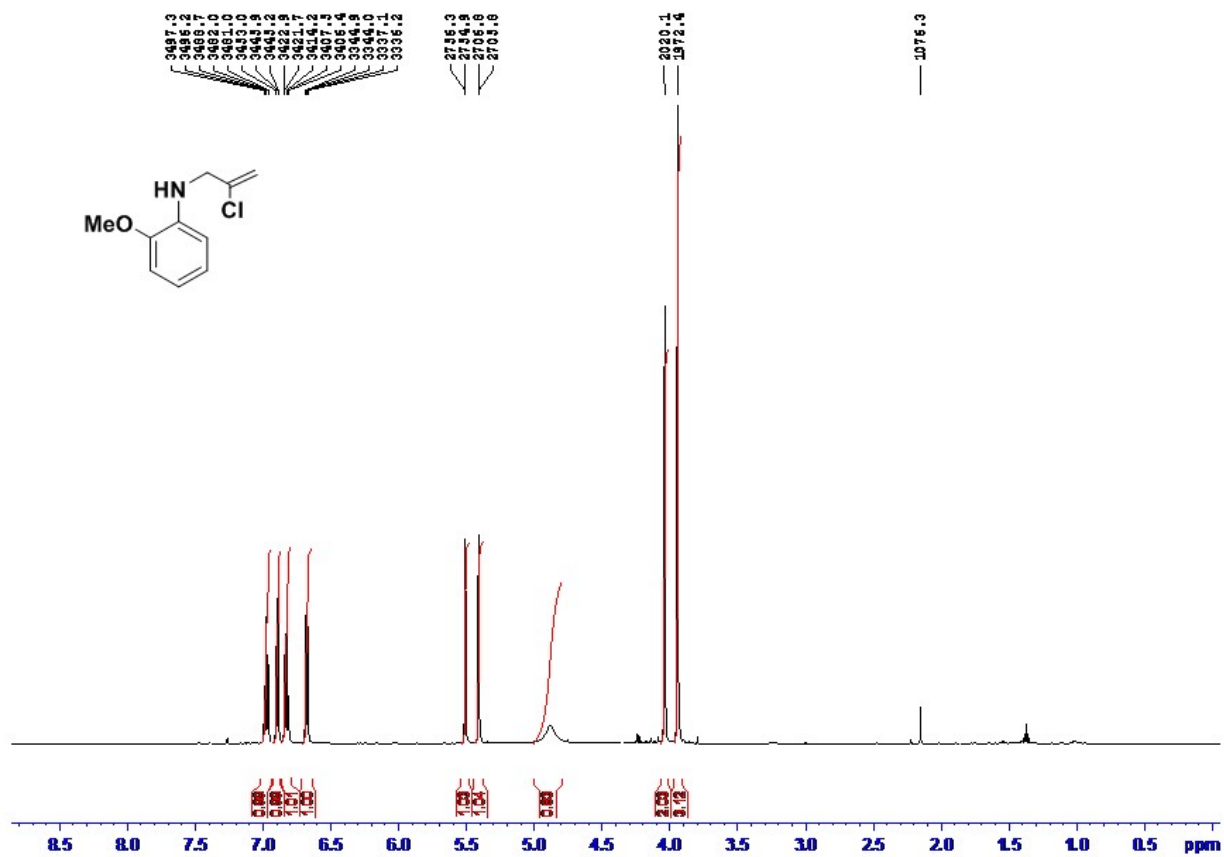


Figure S13. ¹H NMR spectra of N-(2-chloroprop-2-en-1-yl)-2-methoxyaniline

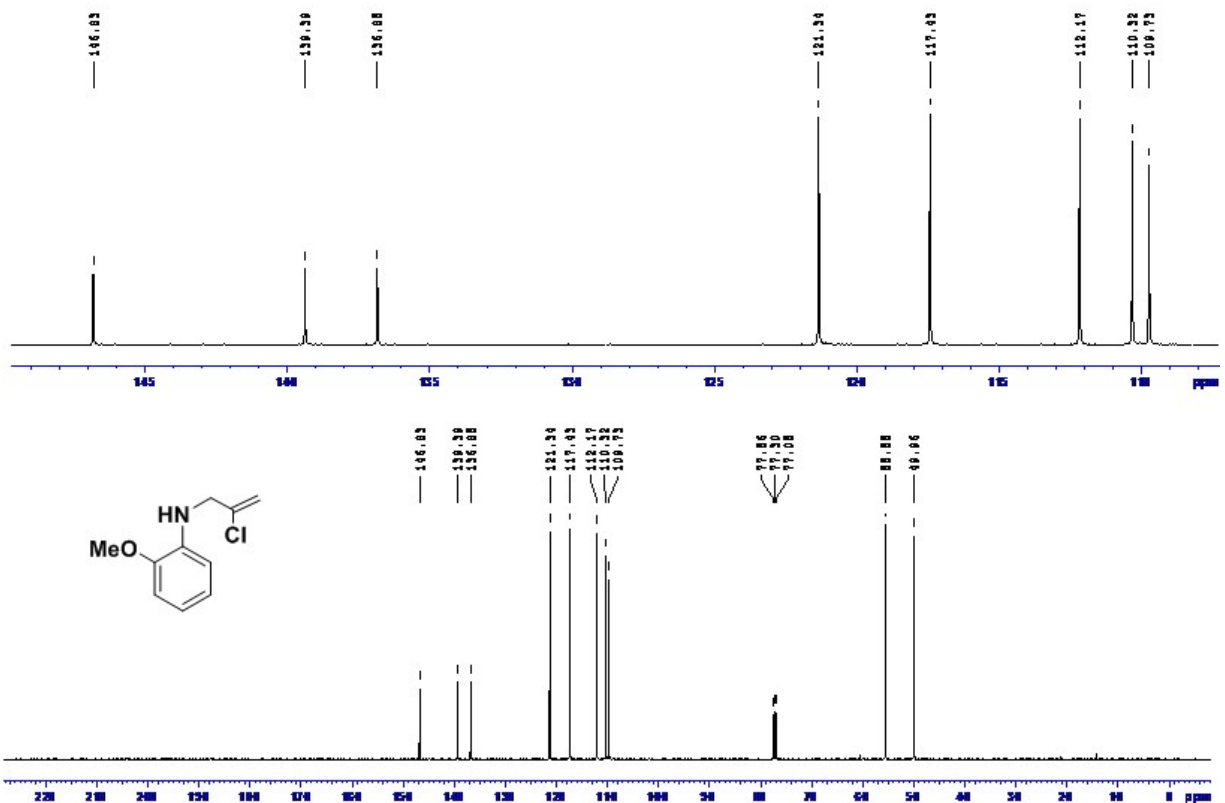


Figure S14. ¹³C NMR spectra of N-(2-chloroprop-2-en-1-yl)-2-methoxyaniline

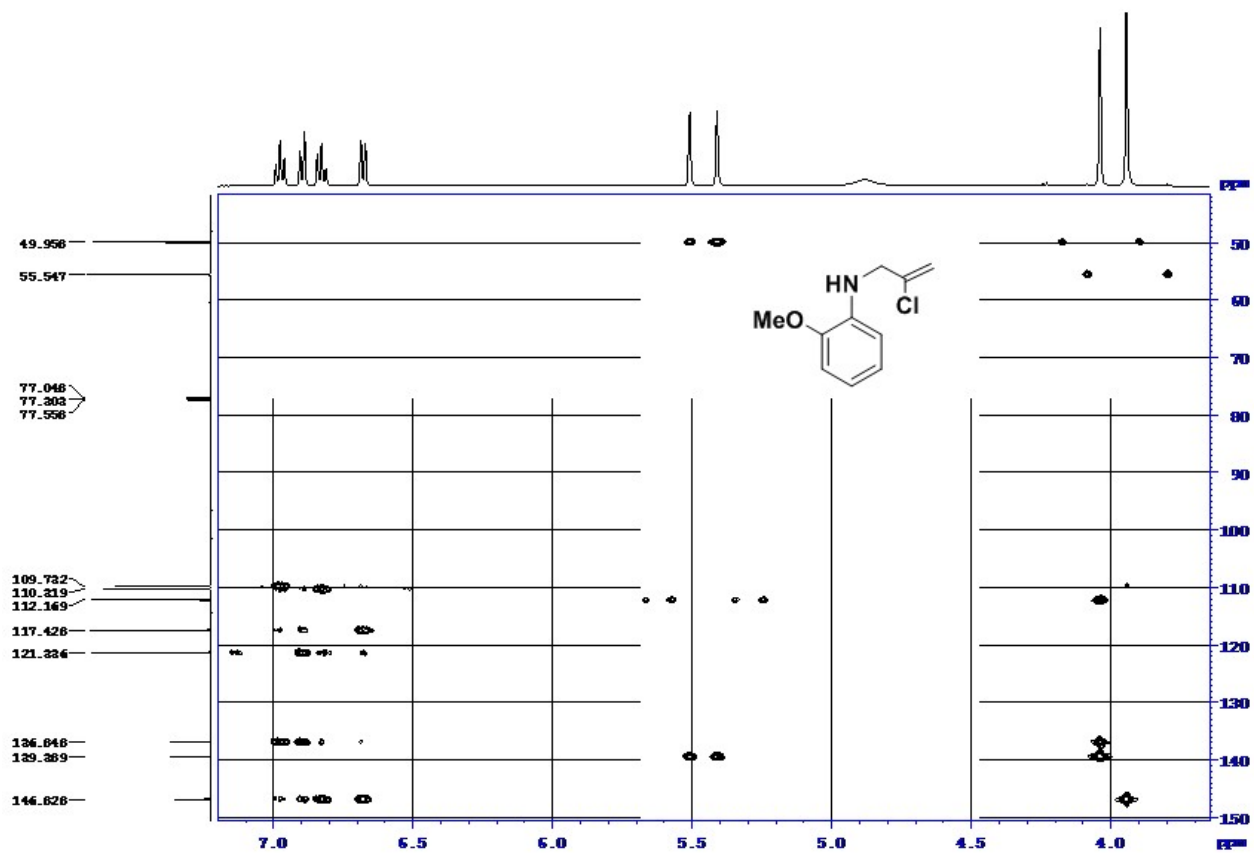


Figure S15. ^1H - ^{15}N HMBC spectra of N-(2-chloroprop-2-en-1-yl)-2-methoxyaniline

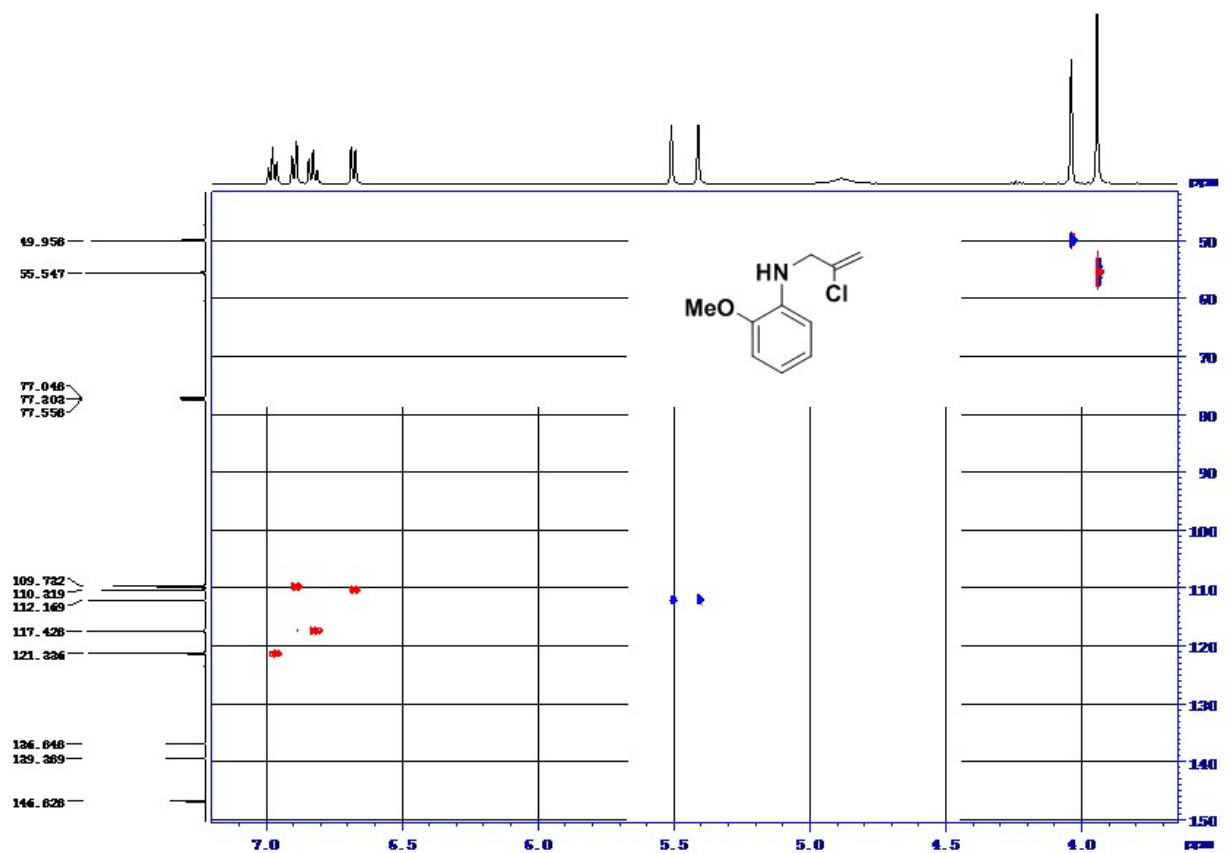


Figure S16. ^1H - ^{13}C HSQC spectra of N-(2-chloroprop-2-en-1-yl)-2-methoxyaniline

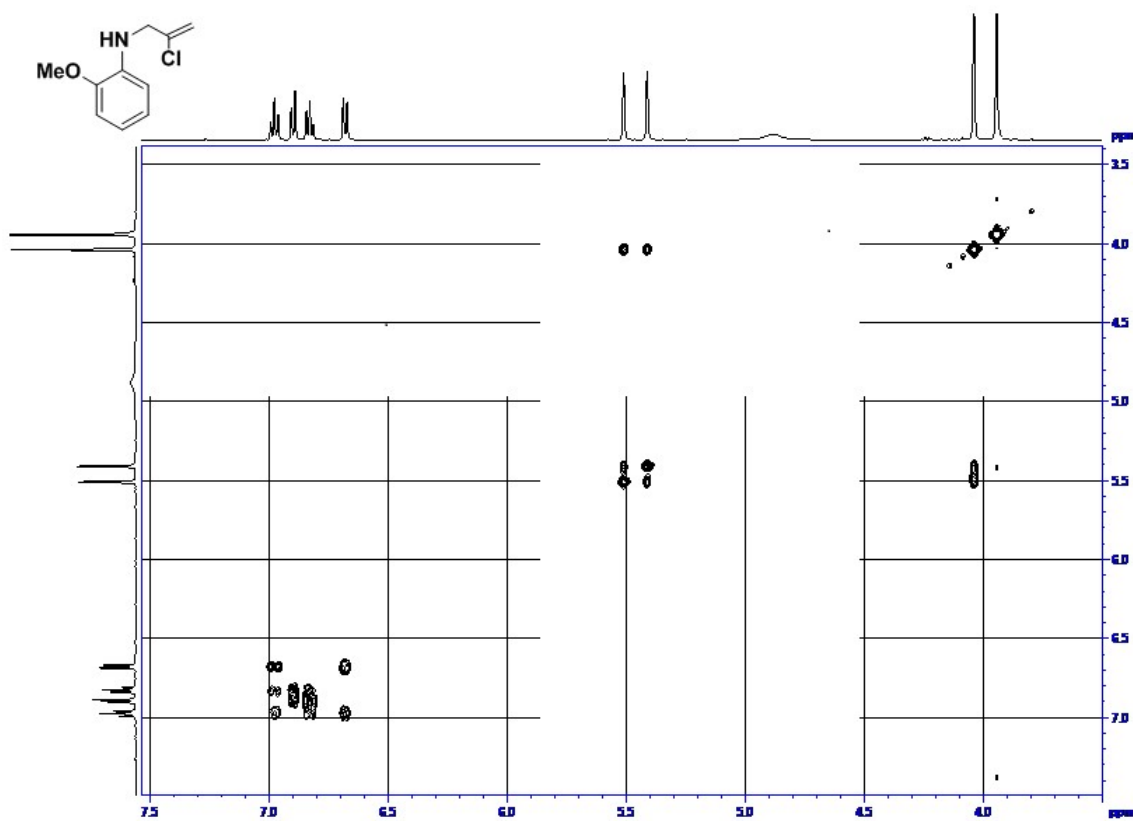


Figure S17. ^1H - ^{13}C COSY spectra of N-(2-chloroprop-2-en-1-yl)-2-methoxyaniline

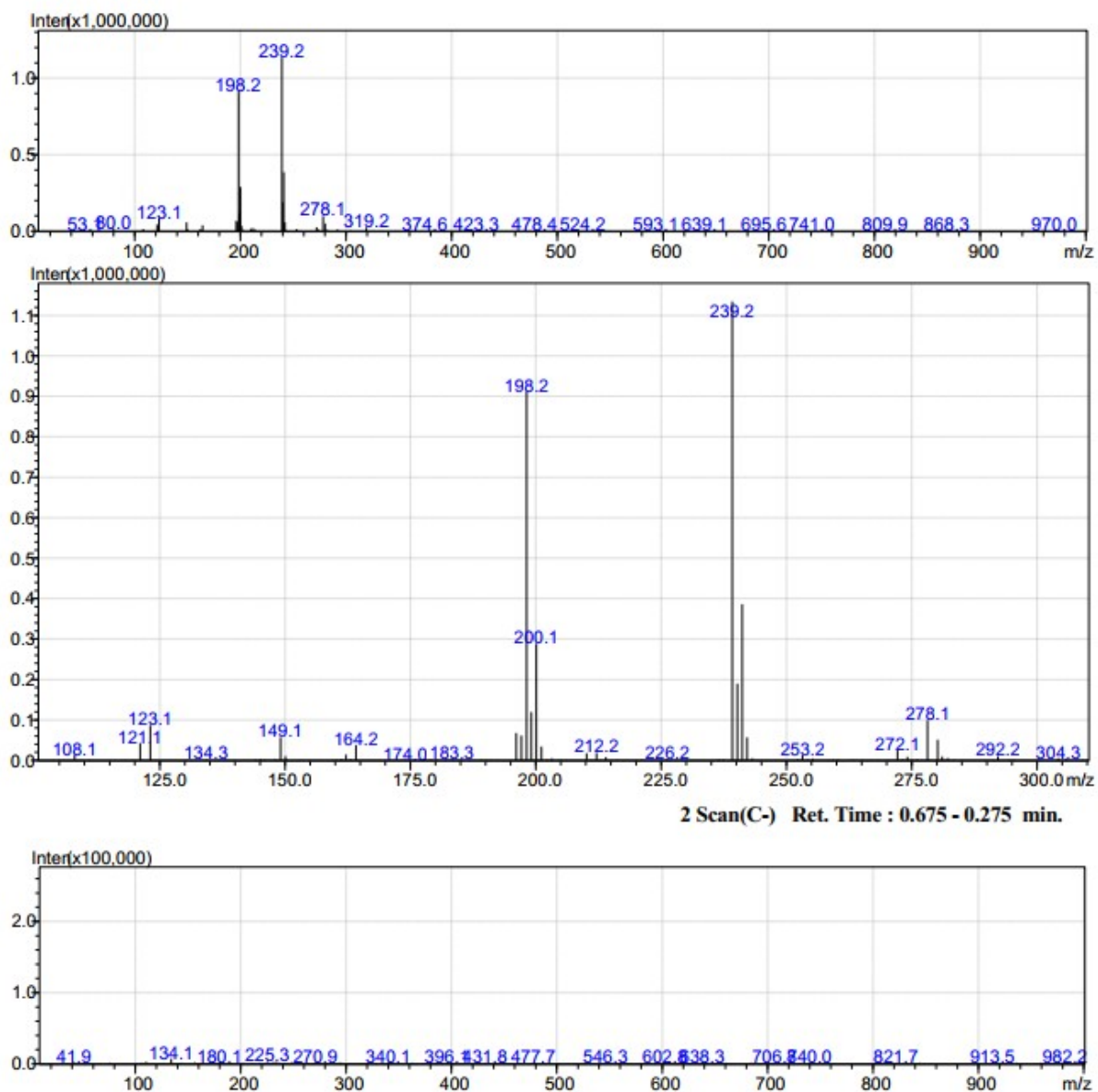


Figure S18. Mass spectrum of N-(2-chloroprop-2-en-1-yl)-2-methoxyaniline

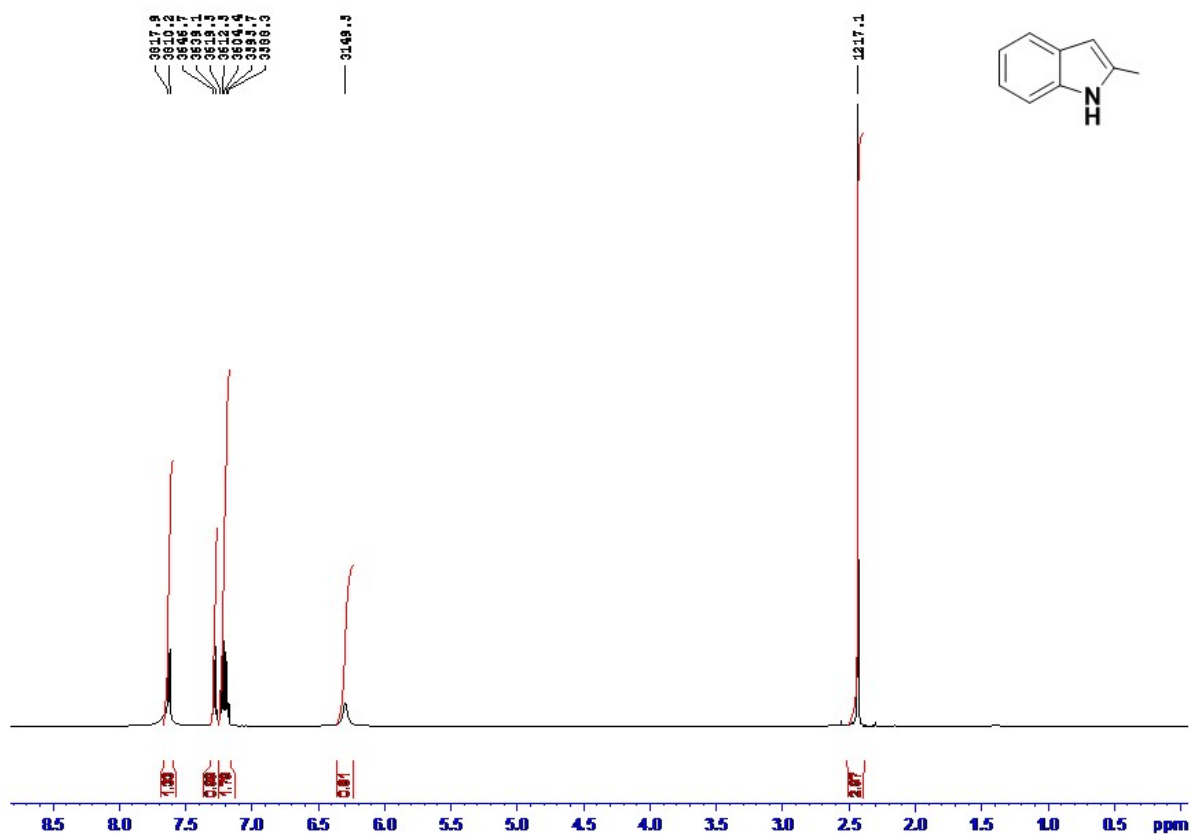


Figure S19. ^1H NMR spectra of 2-methyl-1*H*-indole

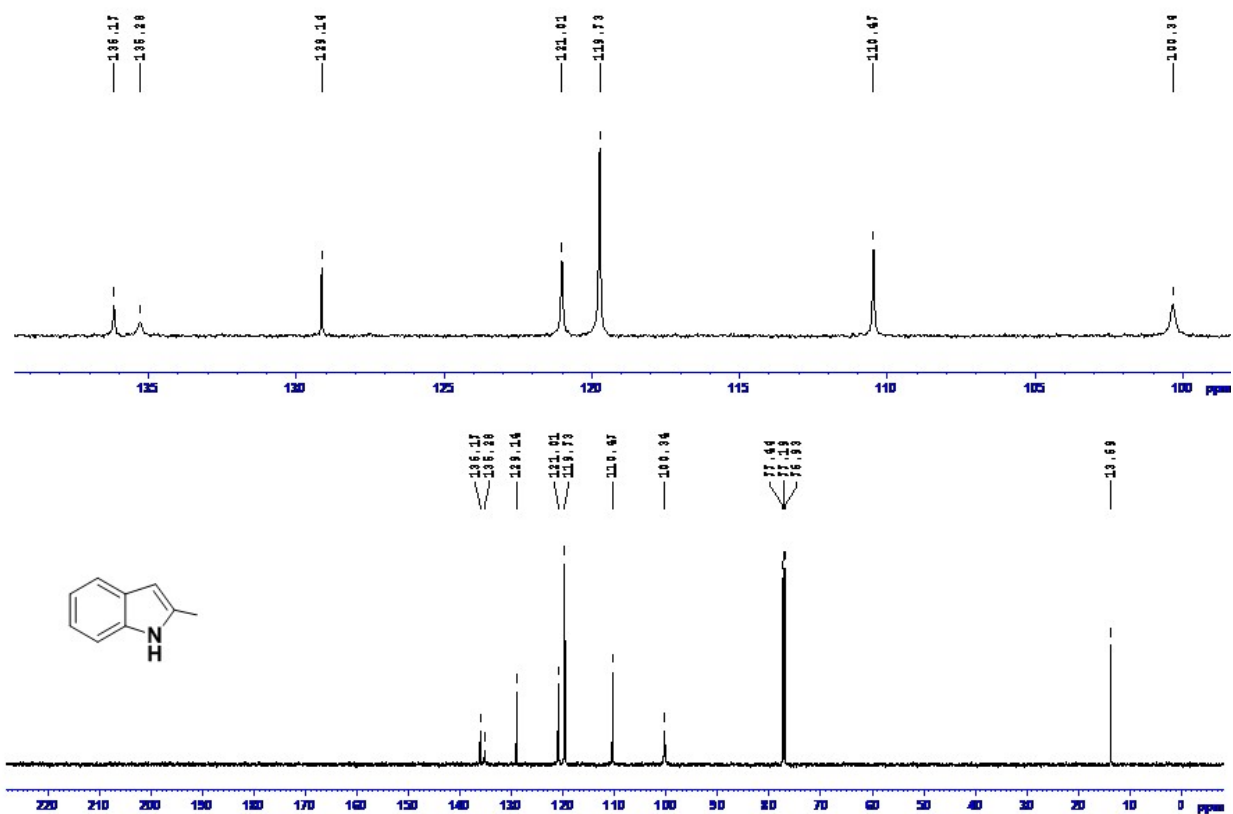


Figure S20. ^{13}C NMR spectra of 2-methyl-1*H*-indole

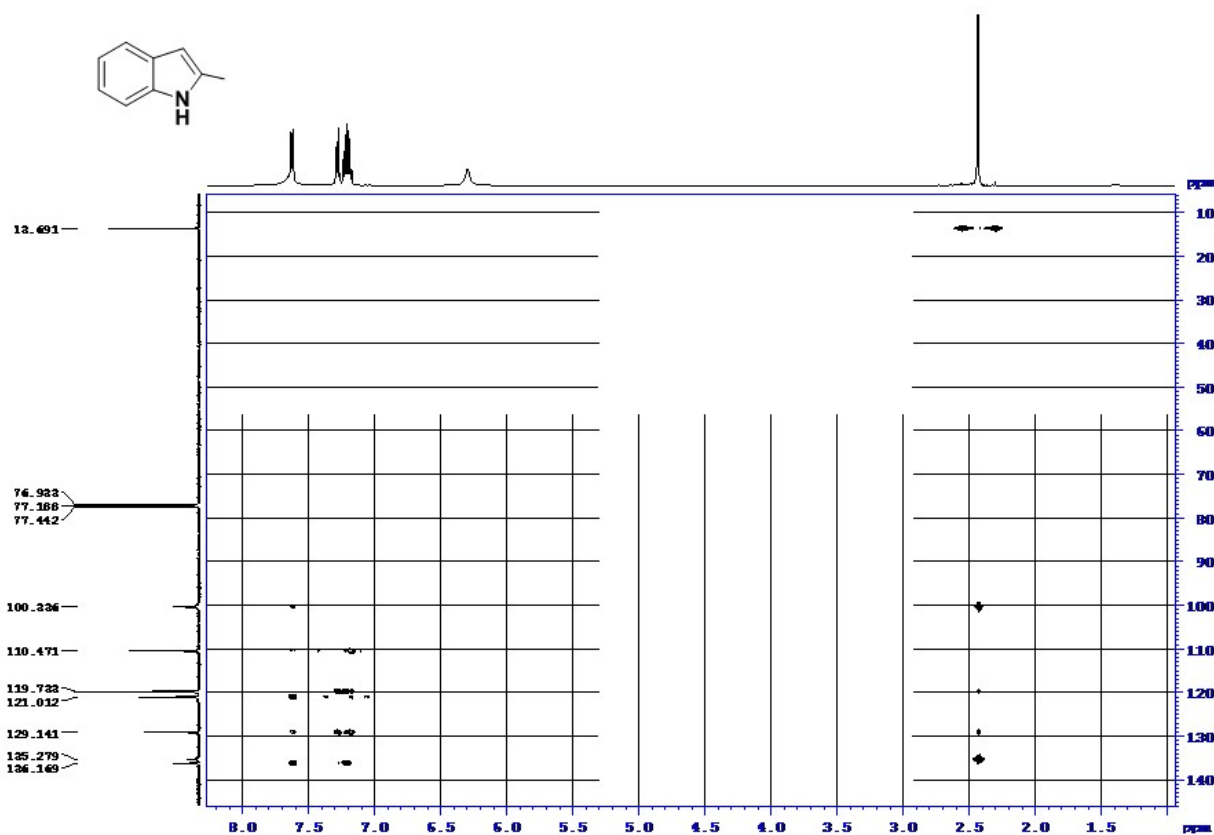


Figure S21. ^1H - ^{15}N HMBC spectra of 2-methyl-1H-indole

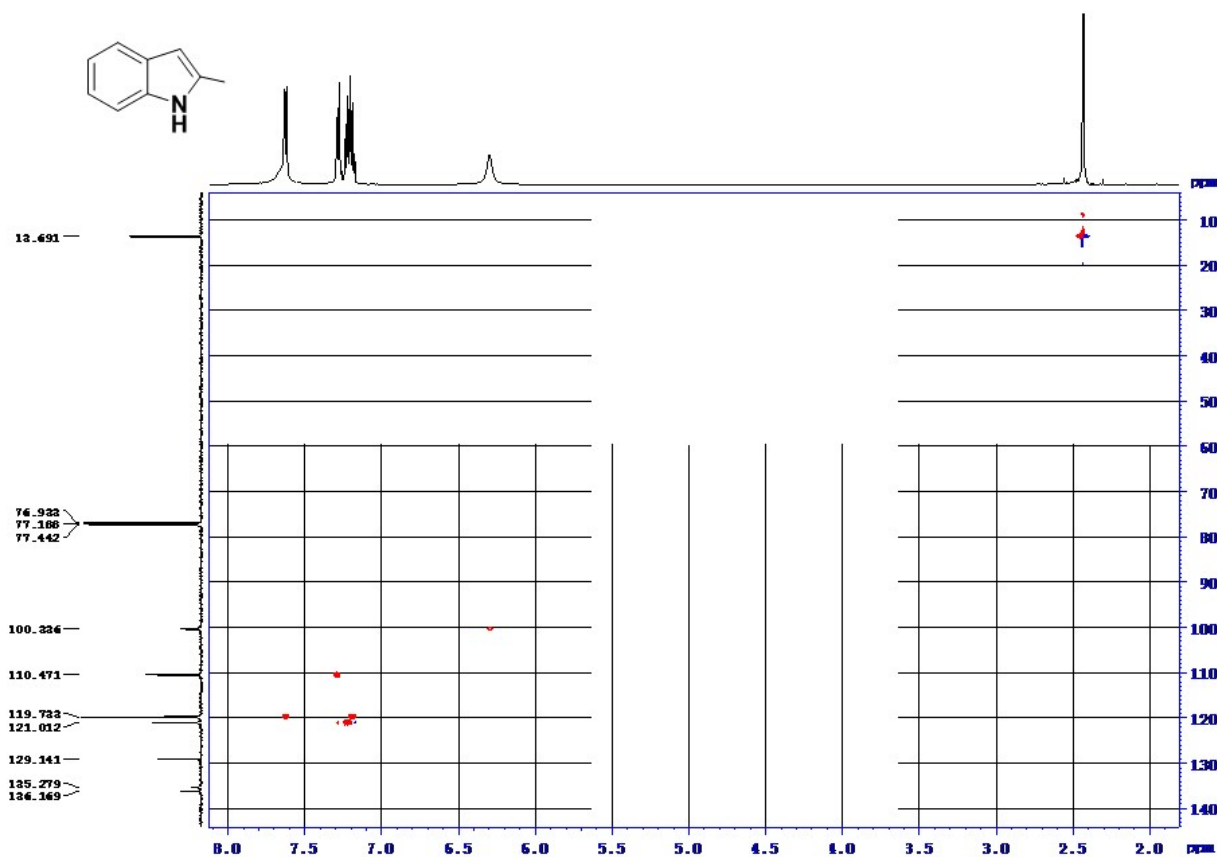


Figure S22. ^1H - ^{13}C HSQC spectra of 2-methyl-1H-indole

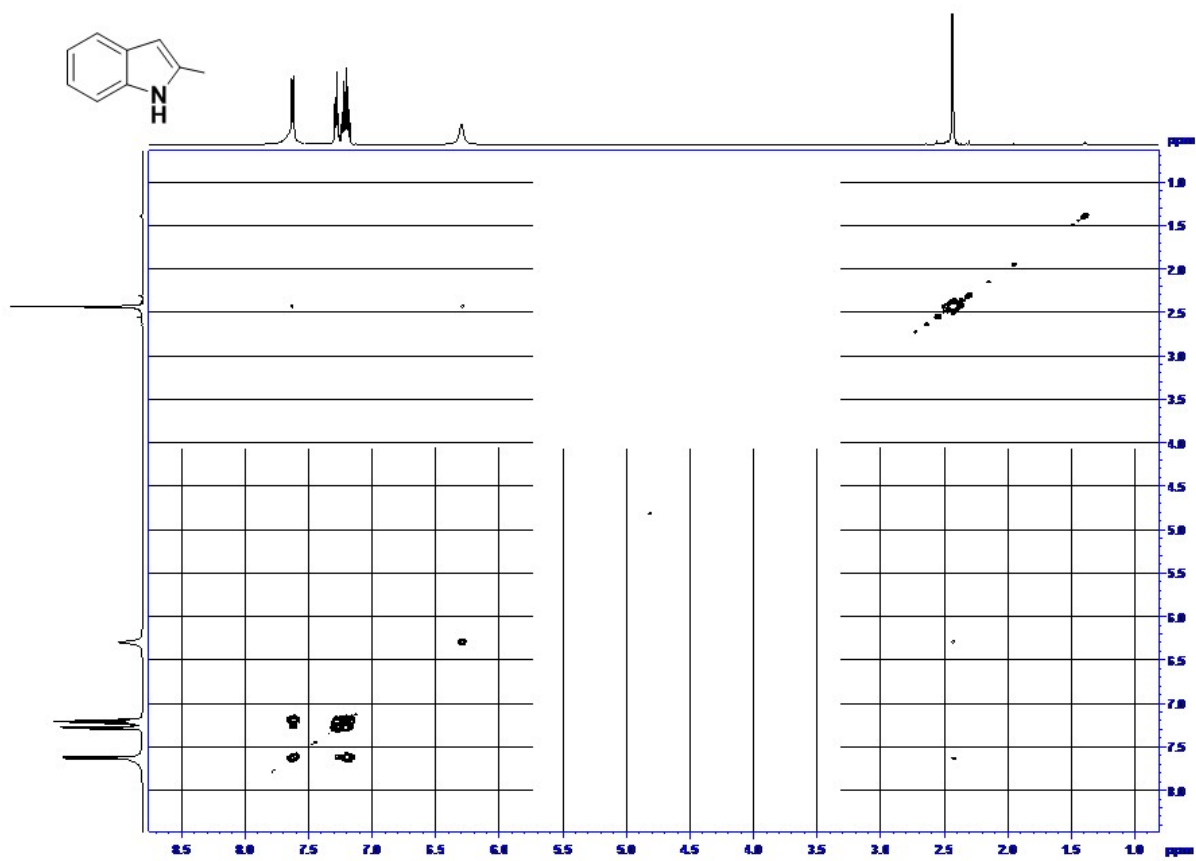


Figure S23. ^1H - ^{13}C COSY spectra of 2-methyl-1*H*-indole

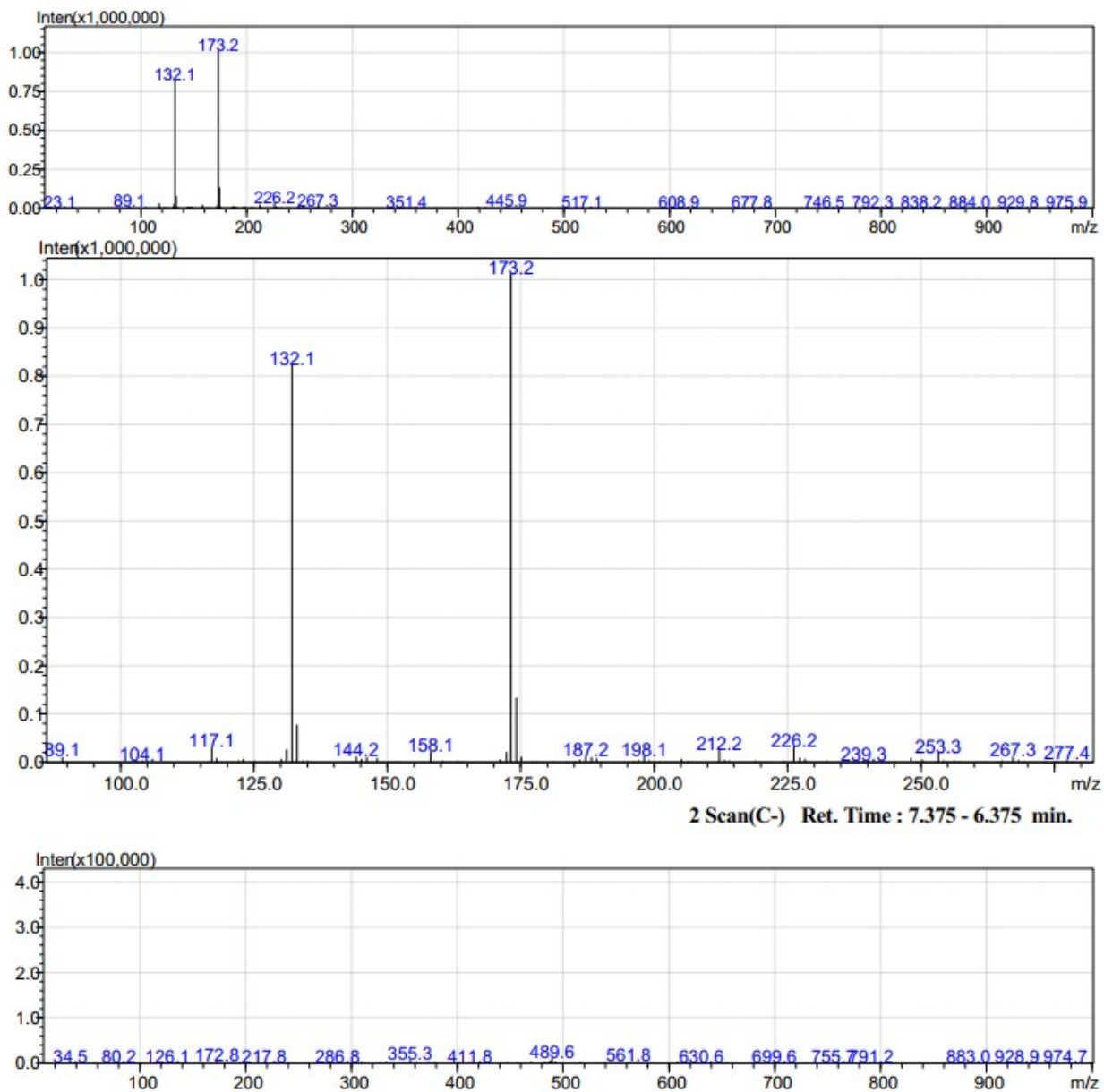


Figure S24. Mass spectrum of 2-methyl-1*H*-indole

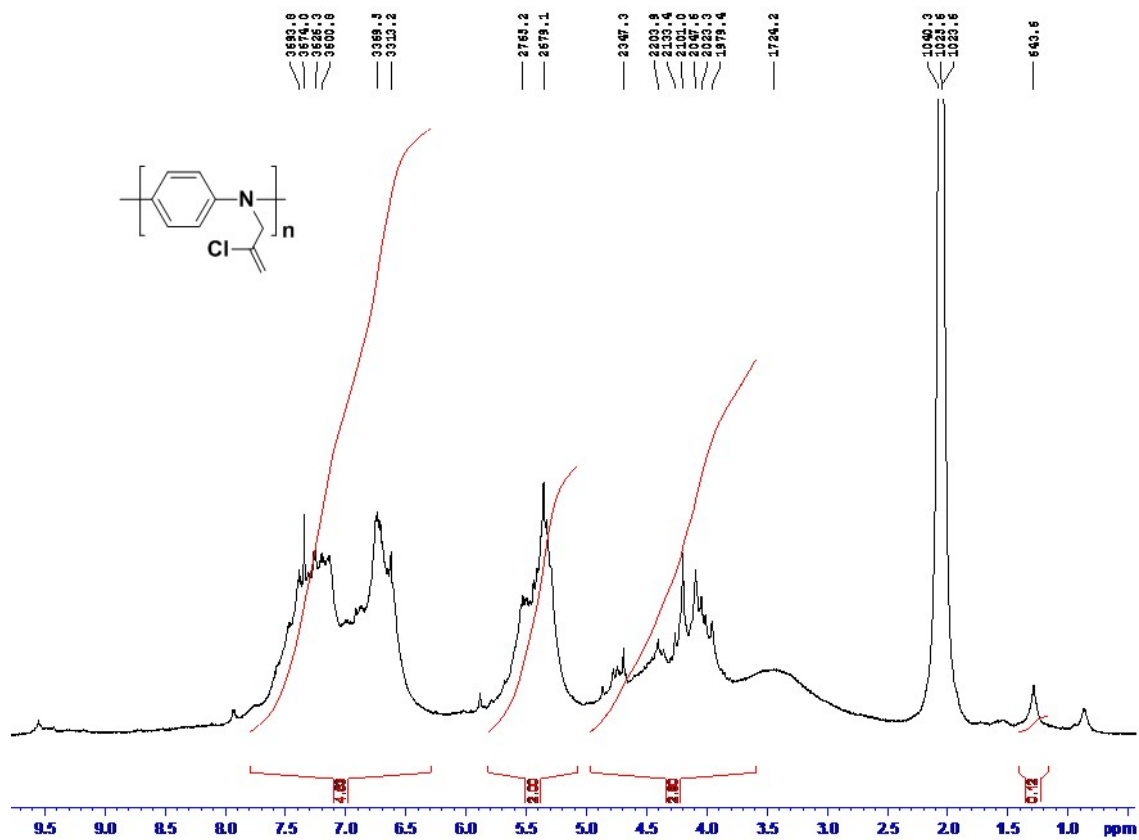


Figure S25. ^1H NMR spectra of poly[N-(2-chloroprop-2-en-1-yl)aniline]

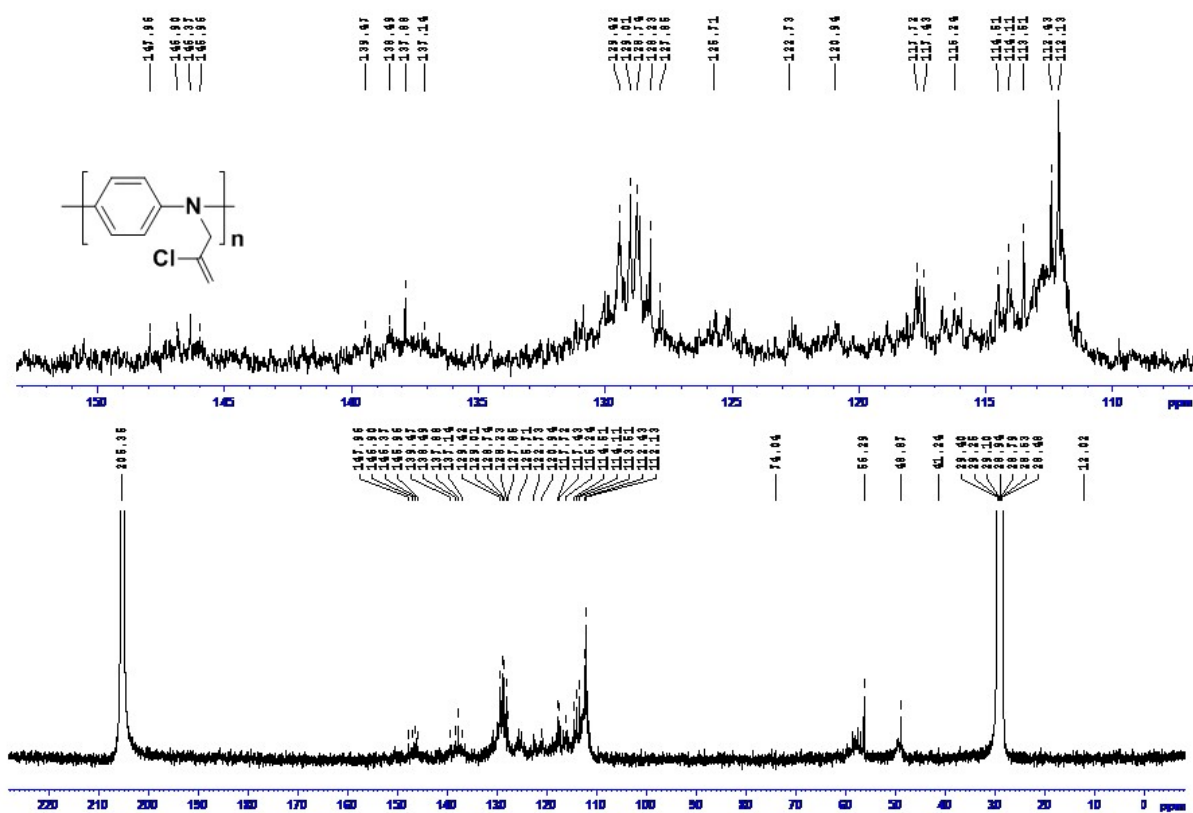


Figure S26. ^{13}C NMR spectra of poly[N-(2-chloroprop-2-en-1-yl)aniline]

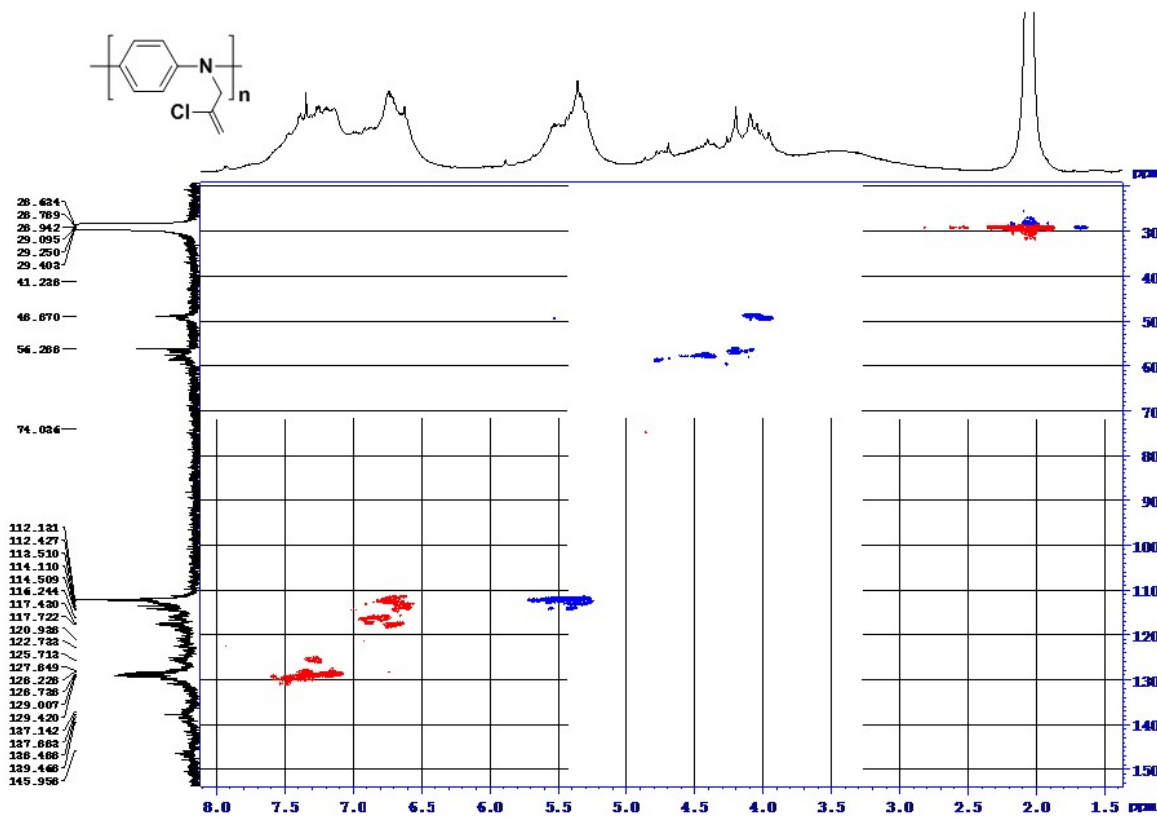


Figure S27. ¹H-¹³C HSQC spectra of poly[N-(2-chloroprop-2-en-1-yl)aniline]

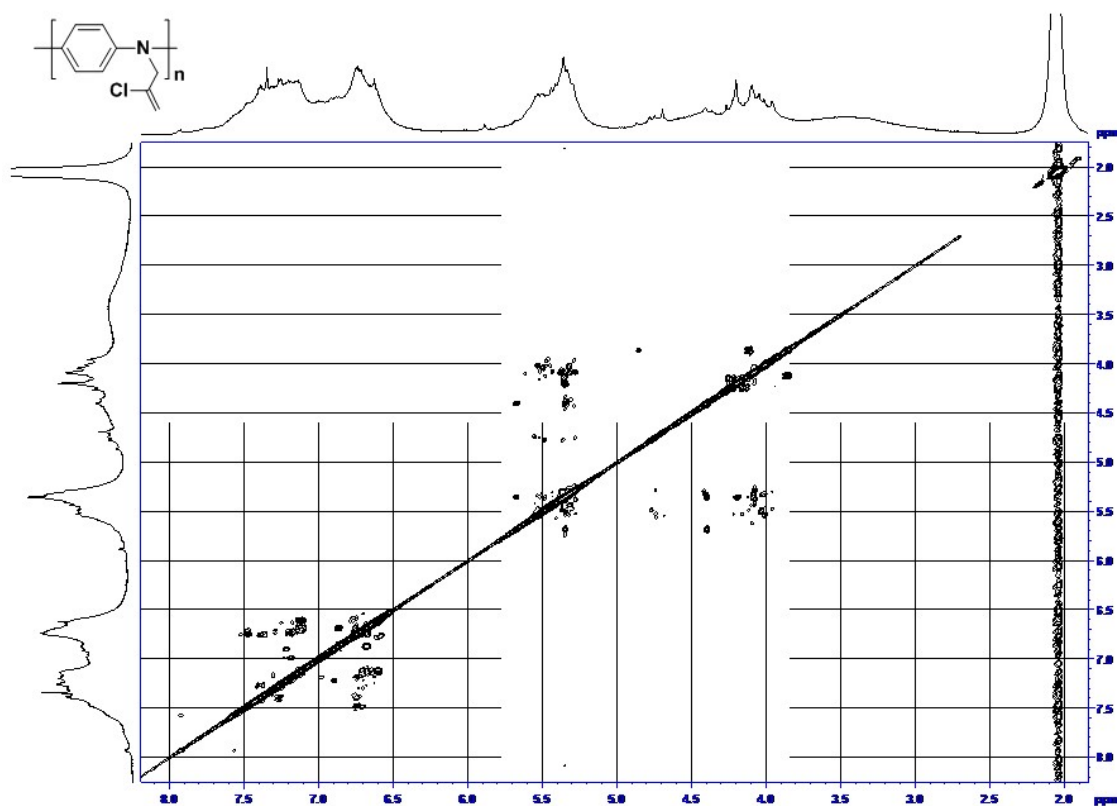


Figure S28. ¹H-¹³C COSY spectra of poly[N-(2-chloroprop-2-en-1-yl)aniline]

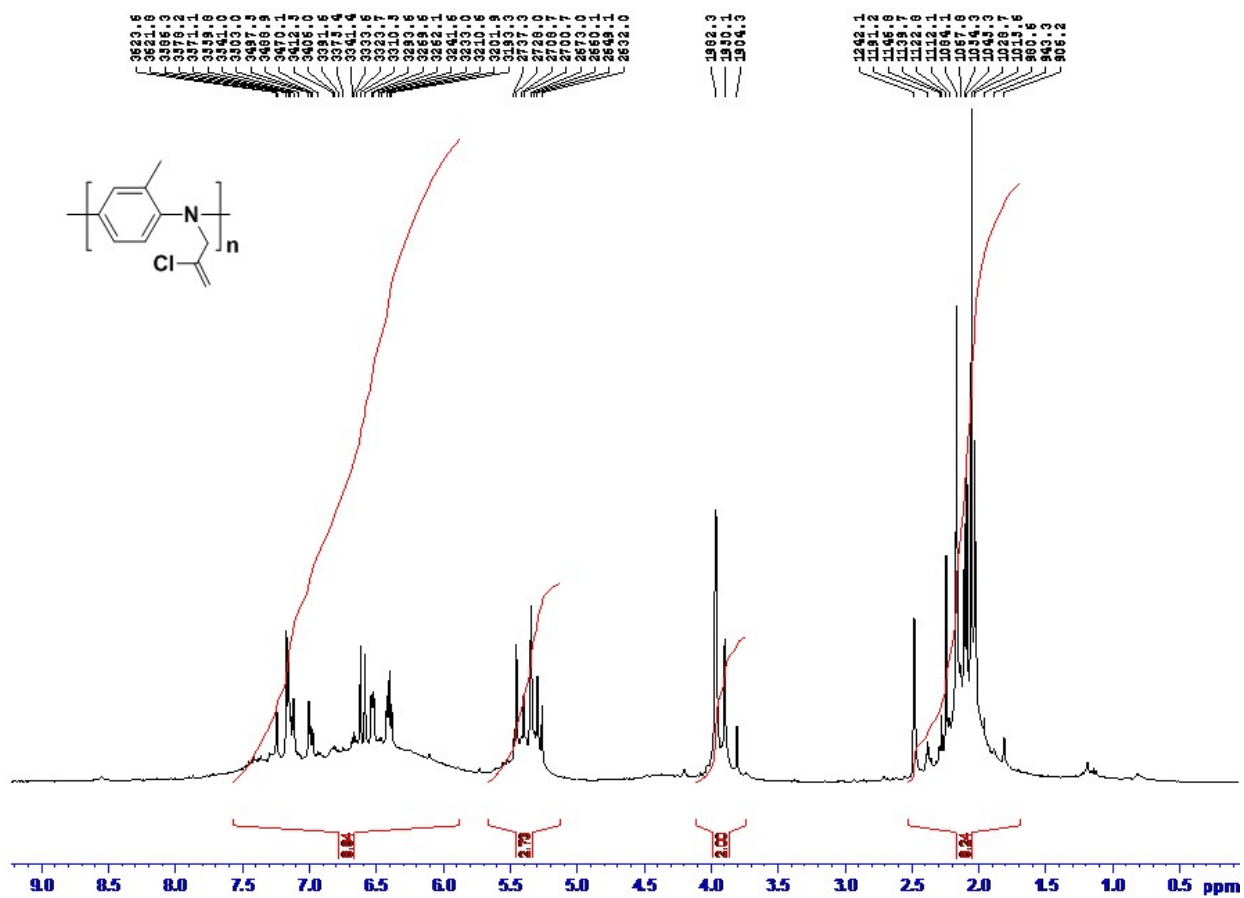


Figure S29. ¹H NMR spectra of poly[N-(2-chloroprop-2-en-1-yl)-2-methylaniline]

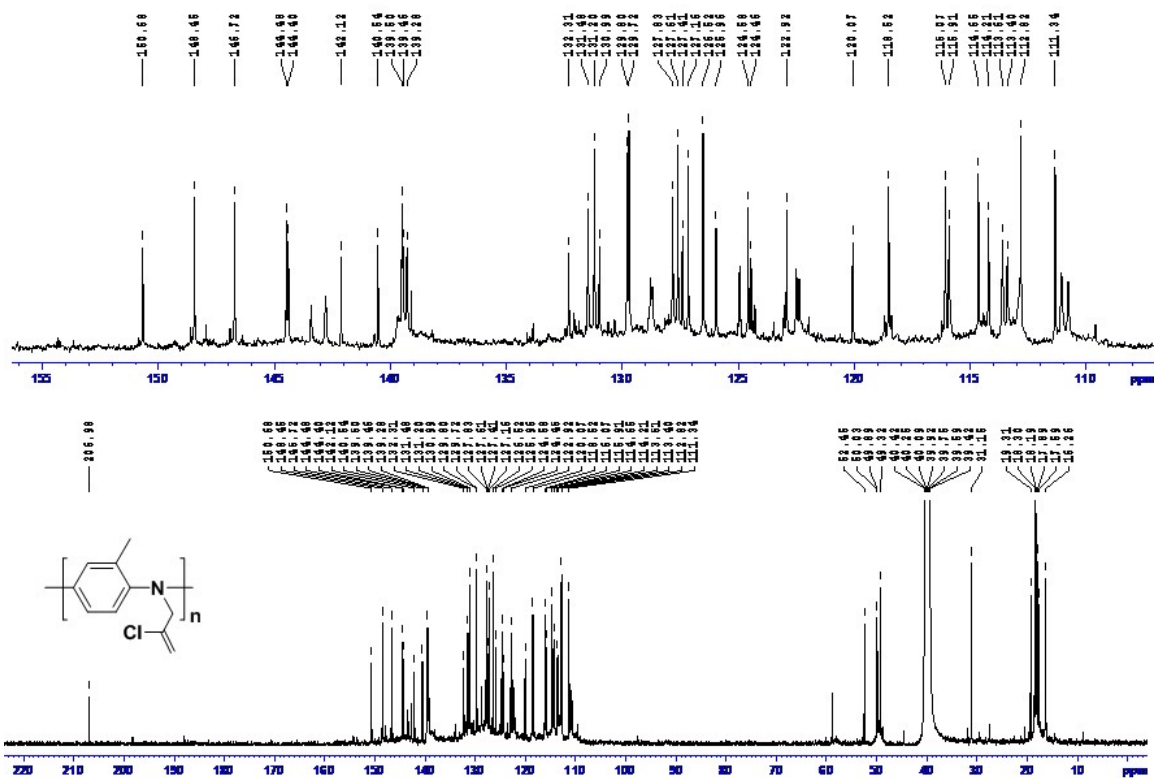


Figure S30. ¹³C NMR spectra of poly[N-(2-chloroprop-2-en-1-yl)-2-methylaniline]

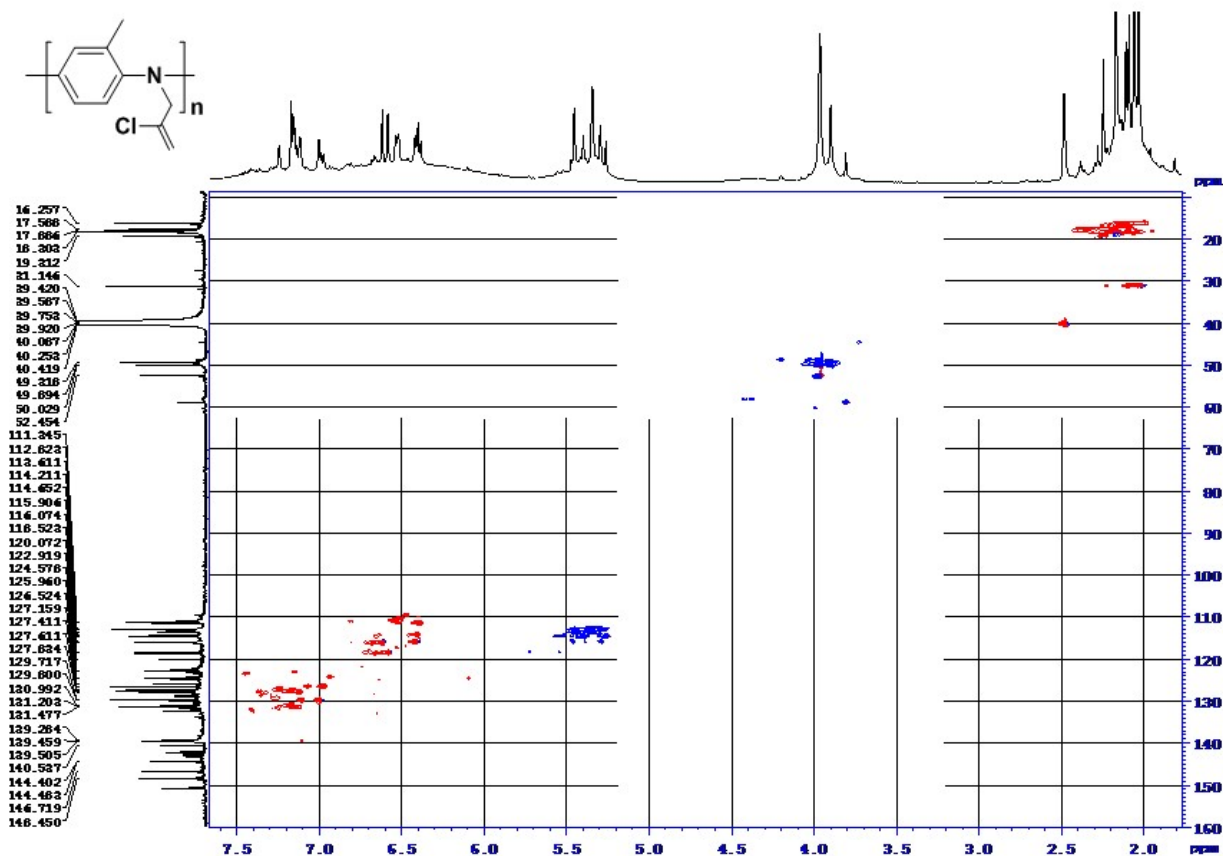


Figure S31. ^1H - ^{13}C HSQC spectra of poly[N-(2-chloroprop-2-en-1-yl)-2-methylaniline]

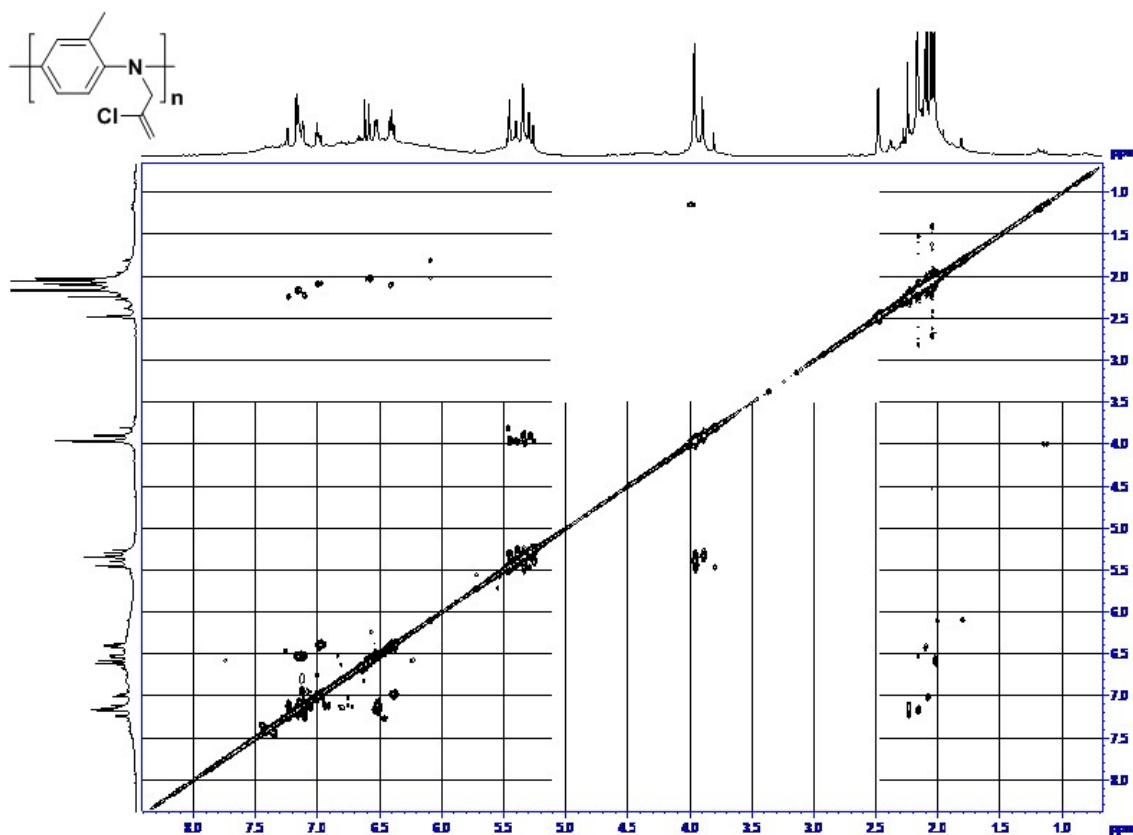


Figure S32. ^1H - ^{13}C COSY spectra of poly[N-(2-chloroprop-2-en-1-yl)-2-methylaniline]

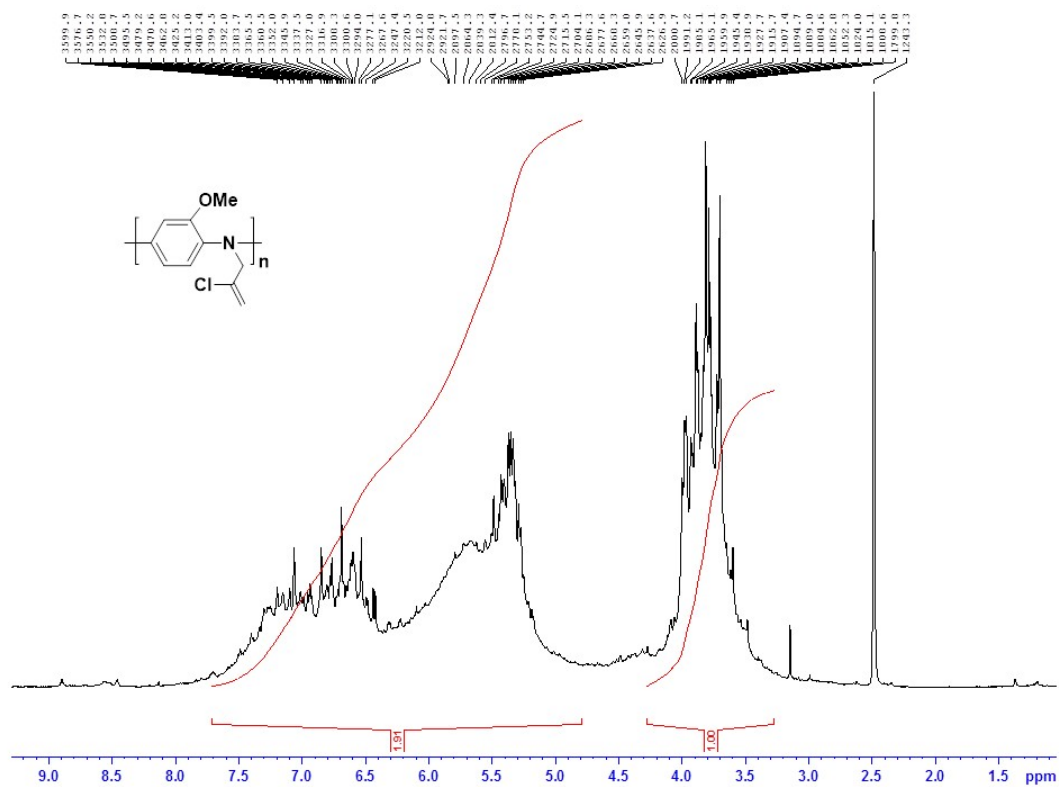


Figure S33. ¹H NMR spectra of poly[N-(2-chloroprop-2-en-1-yl)-2-methoxyaniline]

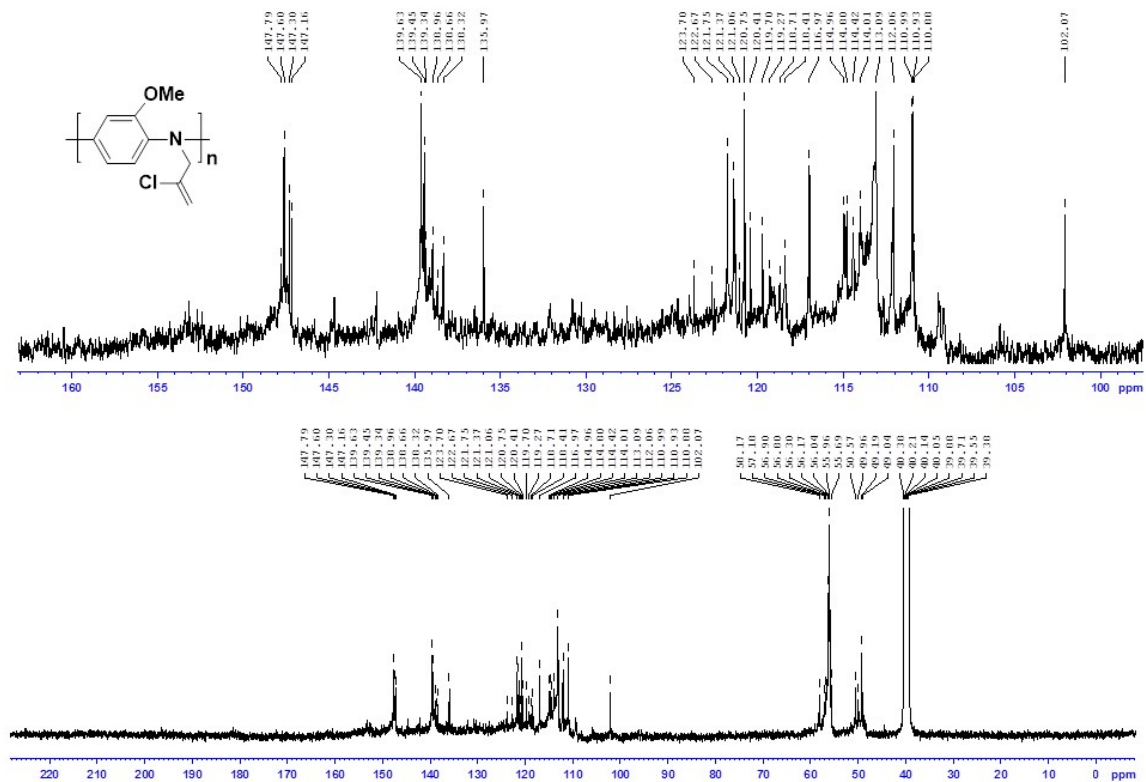


Figure S34. ¹³C NMR spectra of poly[N-(2-chloroprop-2-en-1-yl)-2-methoxyaniline]

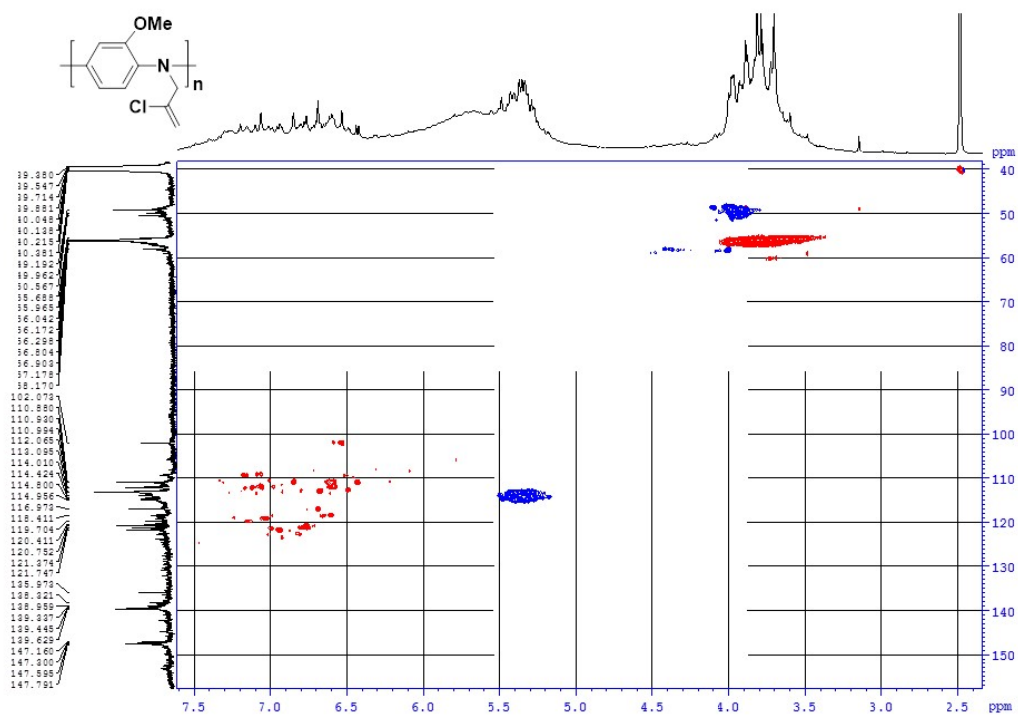


Figure S35. ^1H - ^{13}C HSQC spectra of poly[N-(2-chloroprop-2-en-1-yl)-2-methoxyaniline]

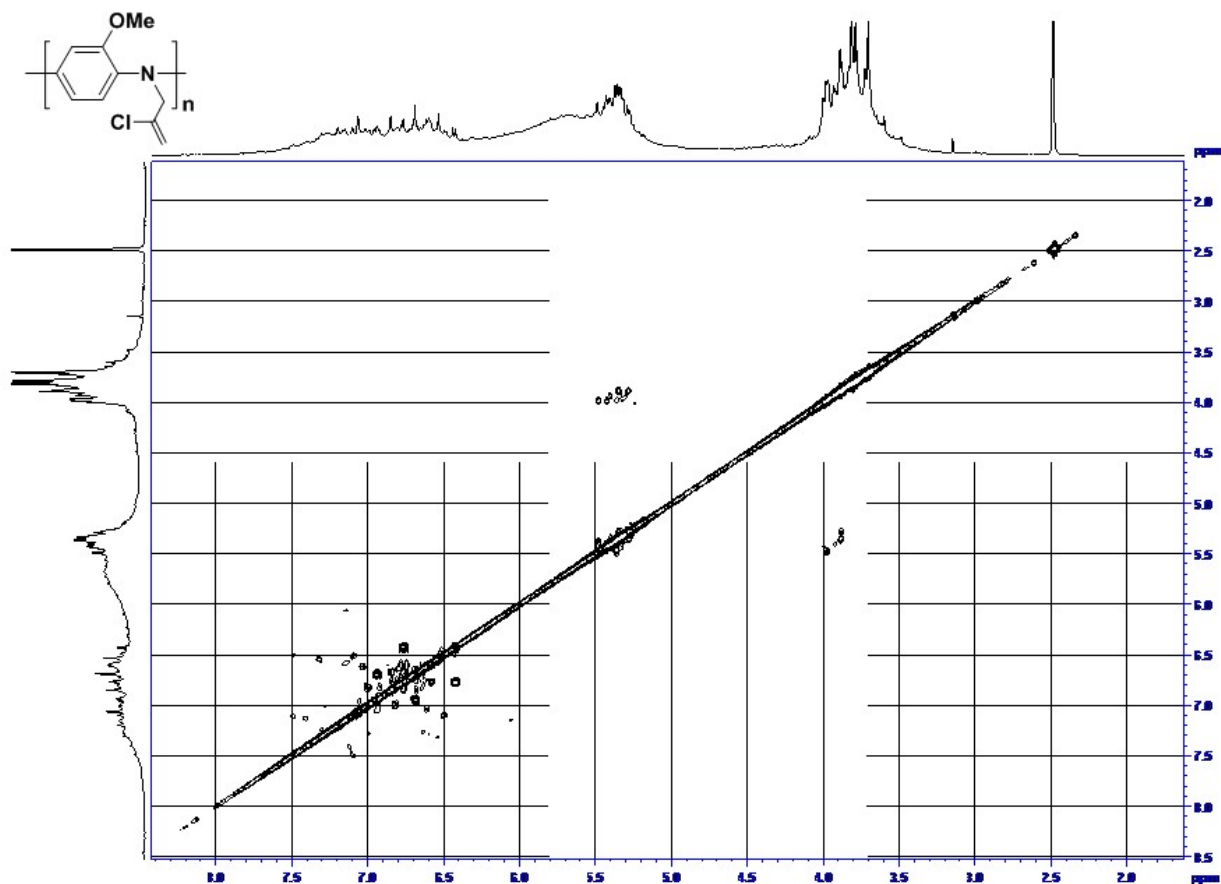


Figure S36. ^1H - ^{13}C COSY spectra of poly[N-(2-chloroprop-2-en-1-yl)-2-methoxyaniline]

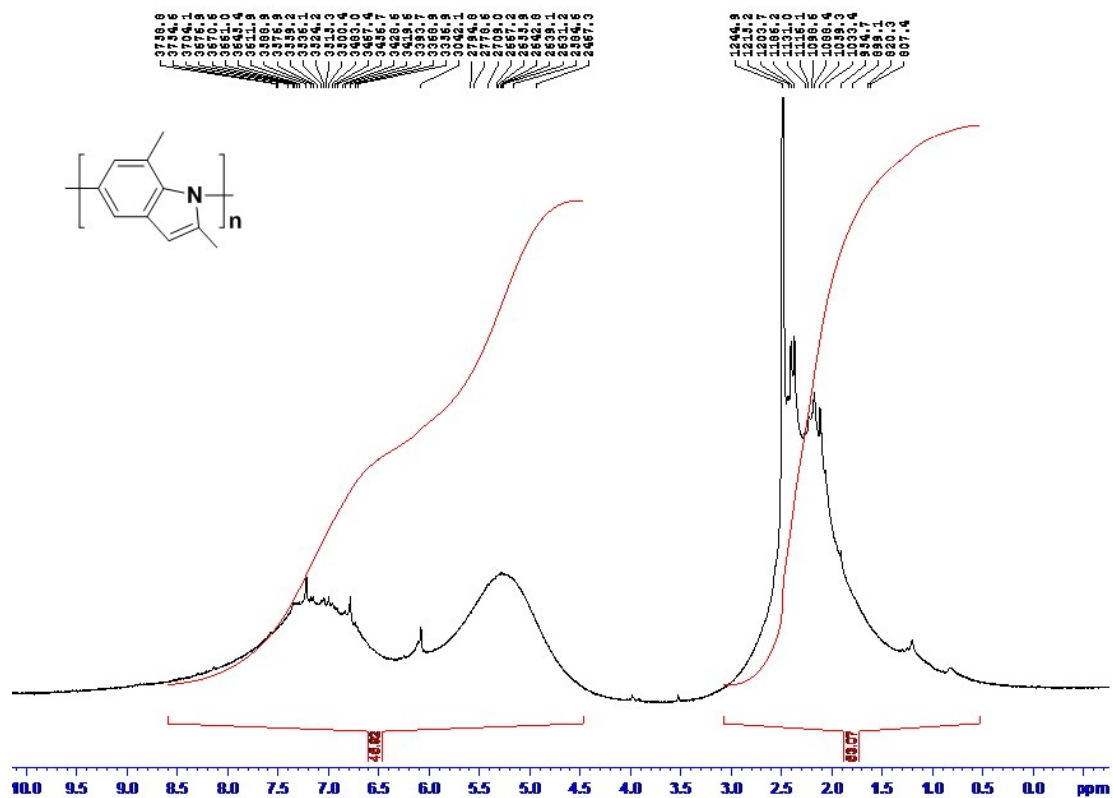


Figure S37. ¹H NMR spectra of poly[2,7-dimethyl-1*H*-indole]

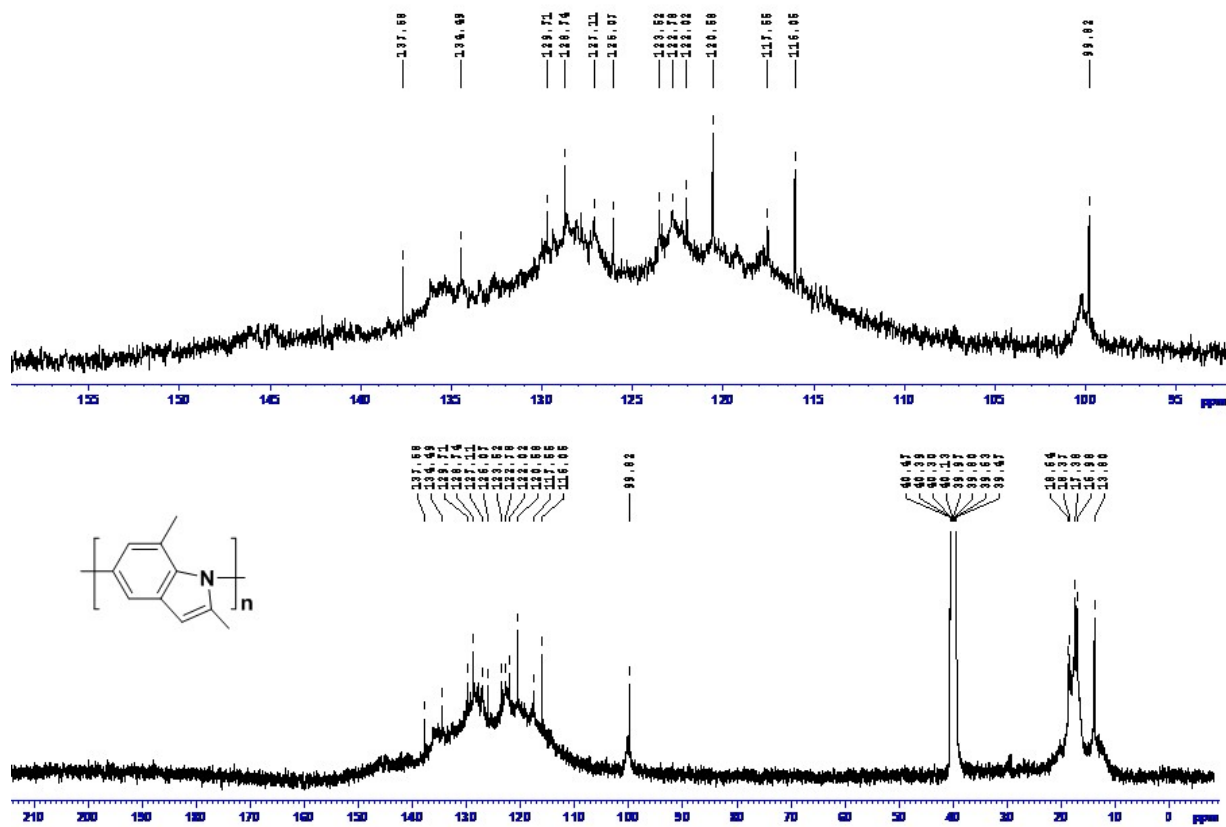


Figure S38. ¹³C NMR spectra of poly[2,7-dimethyl-1*H*-indole]

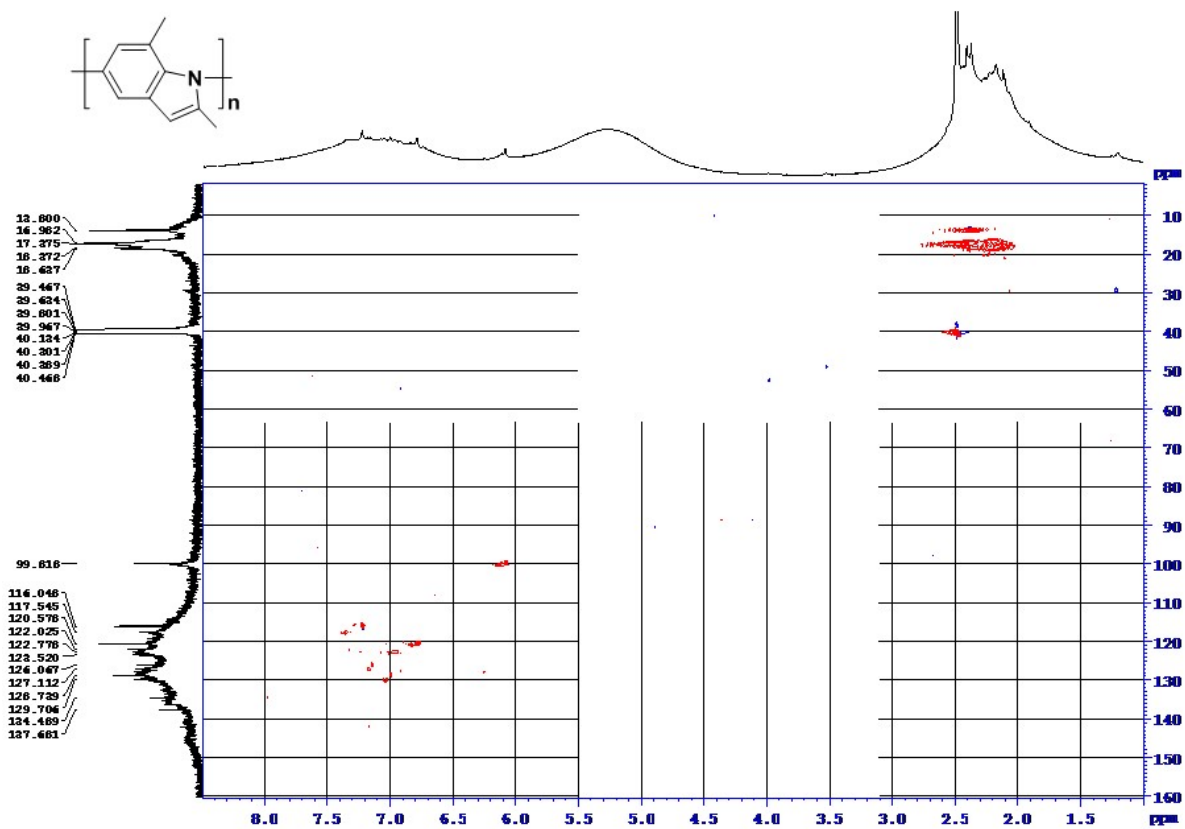
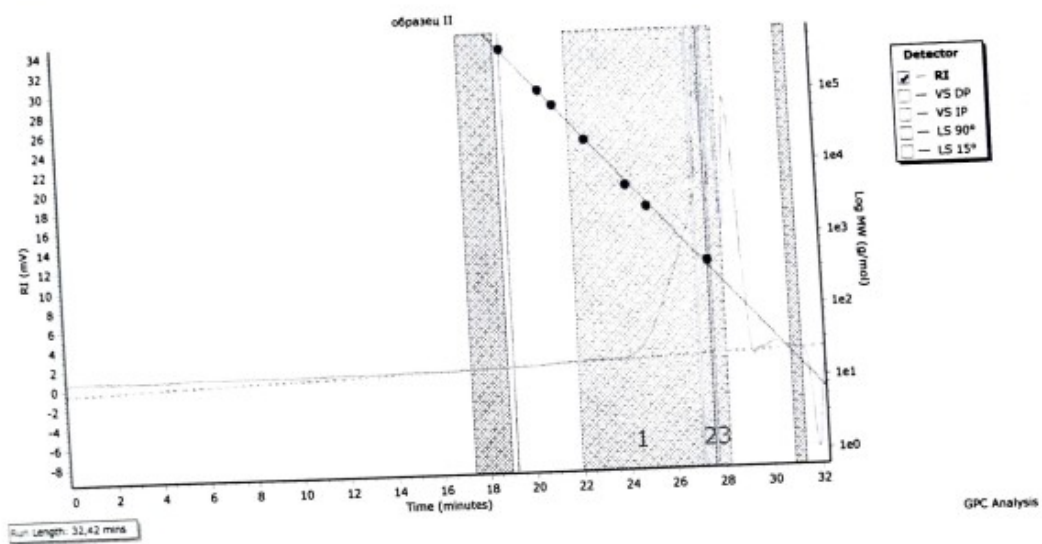


Figure S39. ^1H - ^{13}C HSQC spectra of poly[2,7-dimethyl-1H-indole]

Chromatogram Plot



Distribution Plot

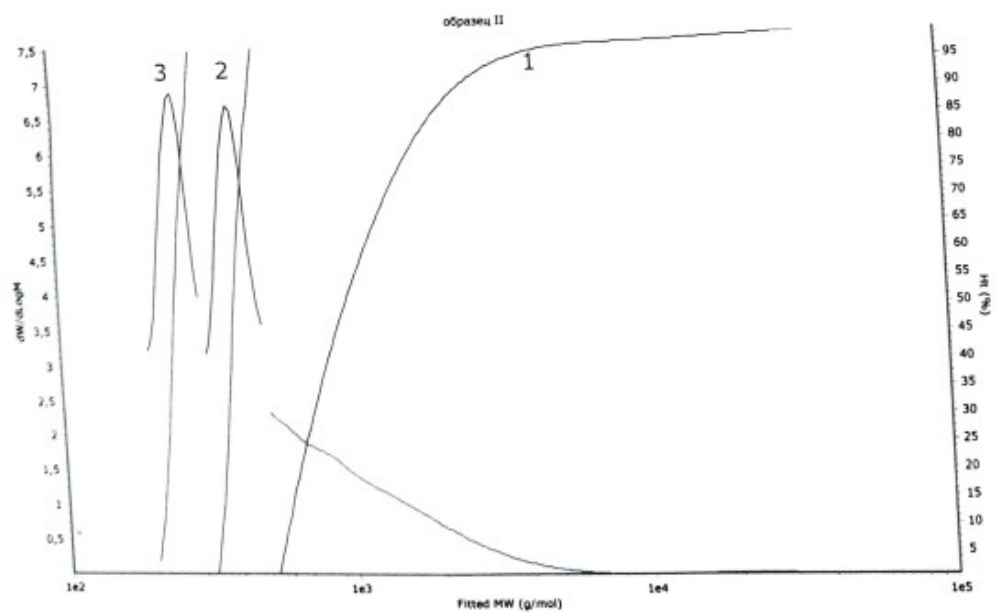
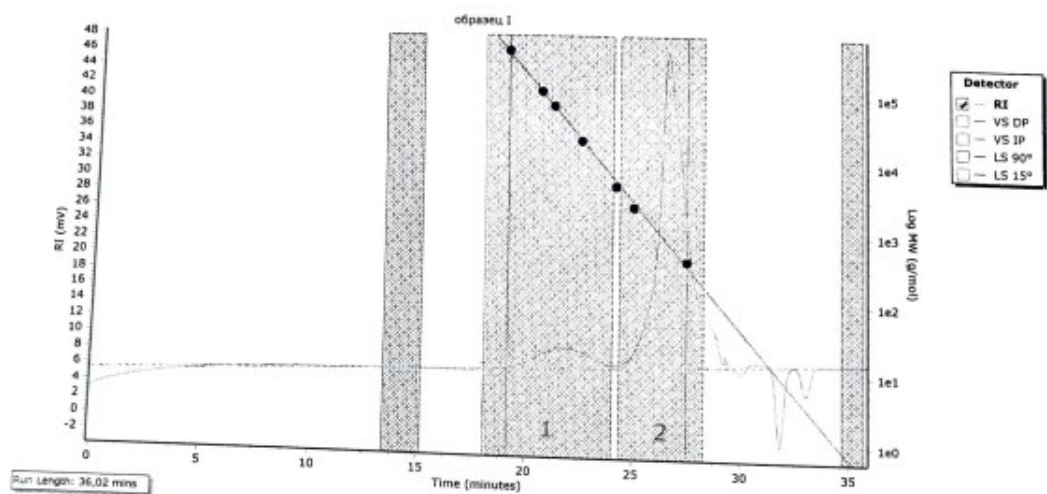


Figure S40. GPC plot of poly[2-methyl-1*H*-indole]

Chromatogram Plot



GPC Analysis

Distribution Plot

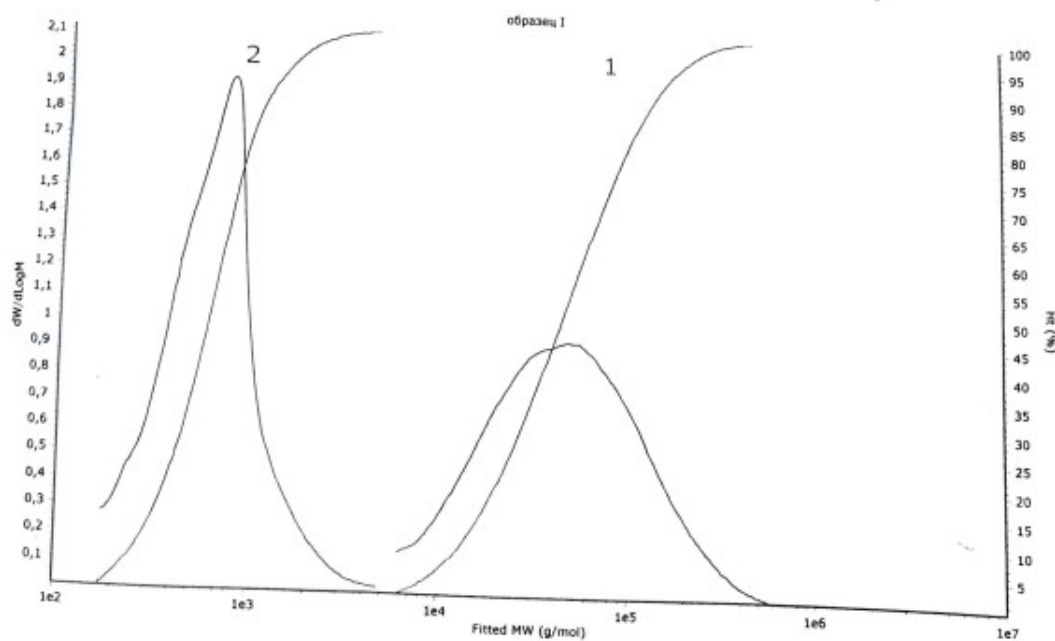
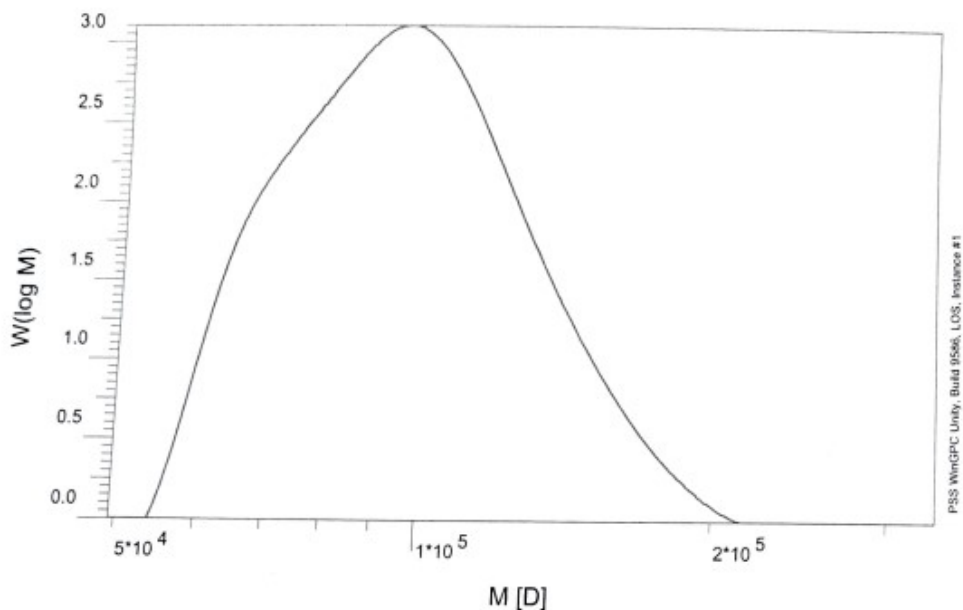


Figure S41. GPC plot of poly[2,7-dimethyl-1*H*-indole]



Sample : Sample 9 filtrated
Integration from: Sunday 16.02.20 15:07:06
Integration to : Sunday 16.02.20 15:11:42
Calibration File : PS_THF_ReadyCal.CAL
MHK - A (Cal.): 6.369E-7
Int.stand.-cal.: 50.000 ml
Pump : LC-20AD
Concentration : 1.000 g/l
Column 1 : PSS SDV 10um e3
Column 2 : PSS SDV 10 um e5
Column 3 : PSS SDV 10um e7
Detector 1 : RID-10A
Detector 2 : WGE n-100x/n-201x
Detector 3 : WGE n-100x/n-201x
Operator : Rafikov Ratmir

Eluent : THF
MHK - K (Cal.): 3.233E-2 ml/g
Int.stand.-sam.: ----- ml
Flowrate : 1.000 ml/min
Inject volume : 500.000 ul
Temperature : 35.000 °C
Temperature : 35.000 °C
Temperature : 35.000 °C
Delay volume : 0.880 ml
Delay volume : 0.000 ml
Delay volume : 0.000 ml
Acquisition interval 1.000 sec

RID-10A		
		Uncert. [%]
Mn :	9.2566e4	1.86 g/mol
Mw :	9.9696e4	1.79 g/mol
Mz :	1.0772e5	1.84 g/mol
Mv :	9.8319e4	1.86 g/mol
D :	1.0770e0	2.58
[n] :	4.8885e1	1.13 ml/g
Vp :	3.2458e1	1.78 ml
Mp :	9.6167e4	1.89 g/mol
A :	1.266e-5	1.78 ml*V
< 49380	0.00	1.78
w% :	100.00	1.78
> 336220	0.00	1.78

Figure S42. GPC plot of poly[7-methoxy-2-methyl-1*H*-indole]