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BF_3-Et_2O Mediated Skeletal Rearrangements of Norbornyl Appended Cyclopentanediols[†]

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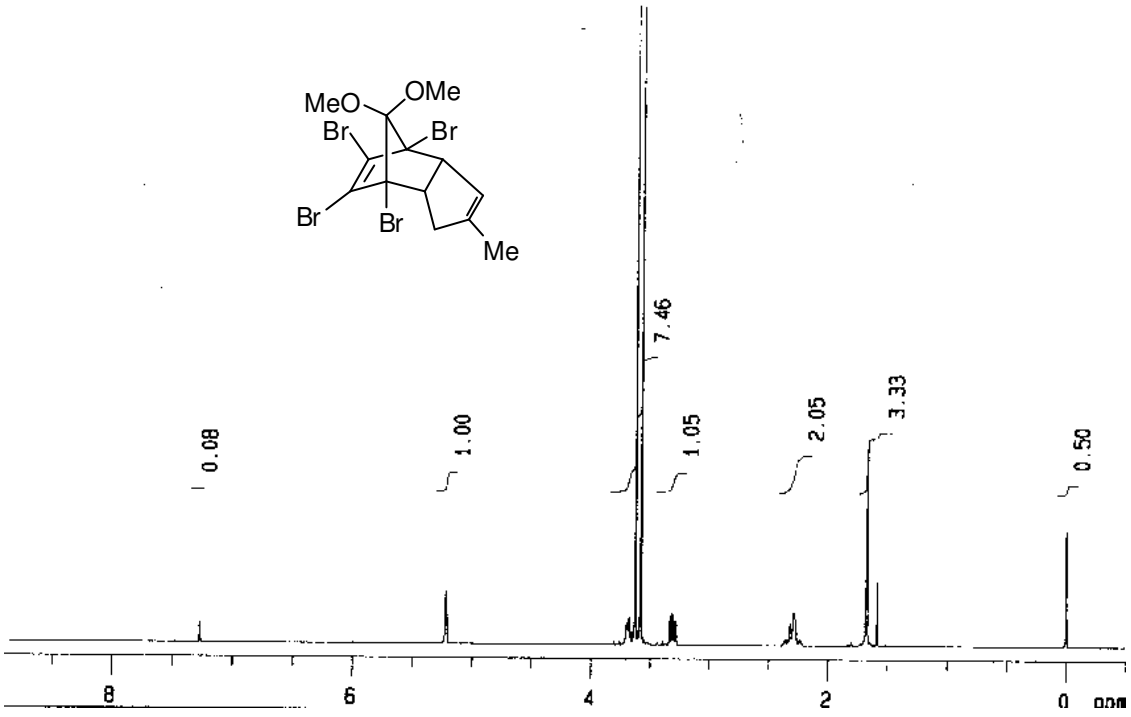
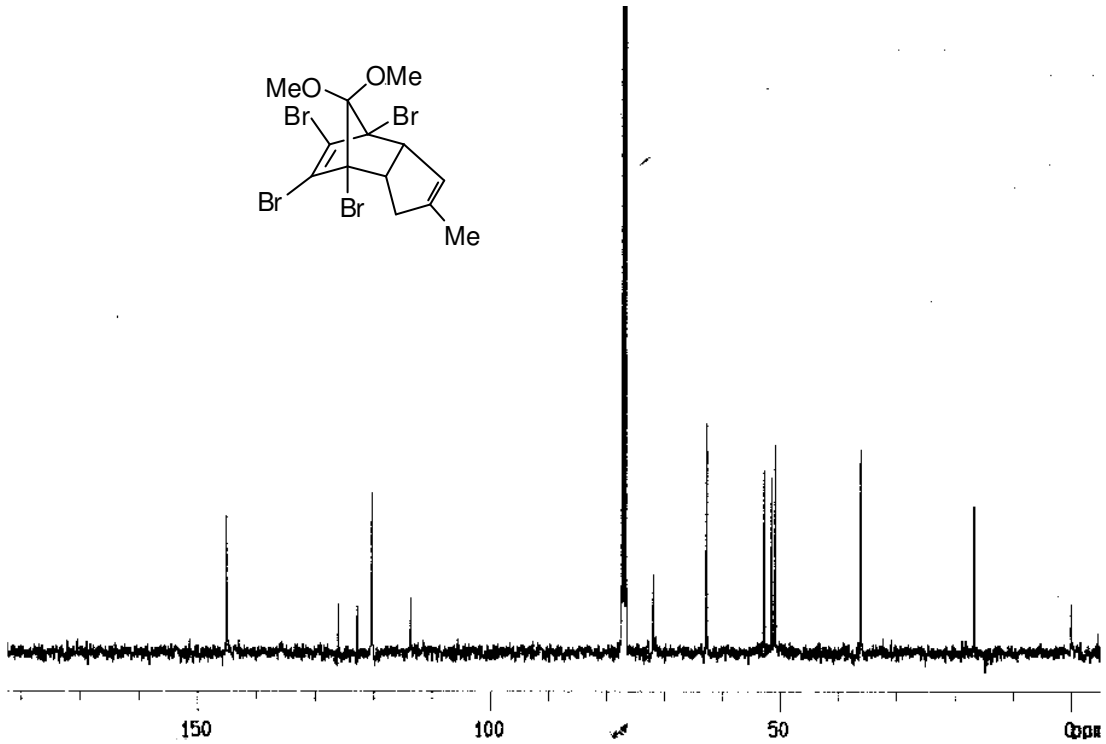
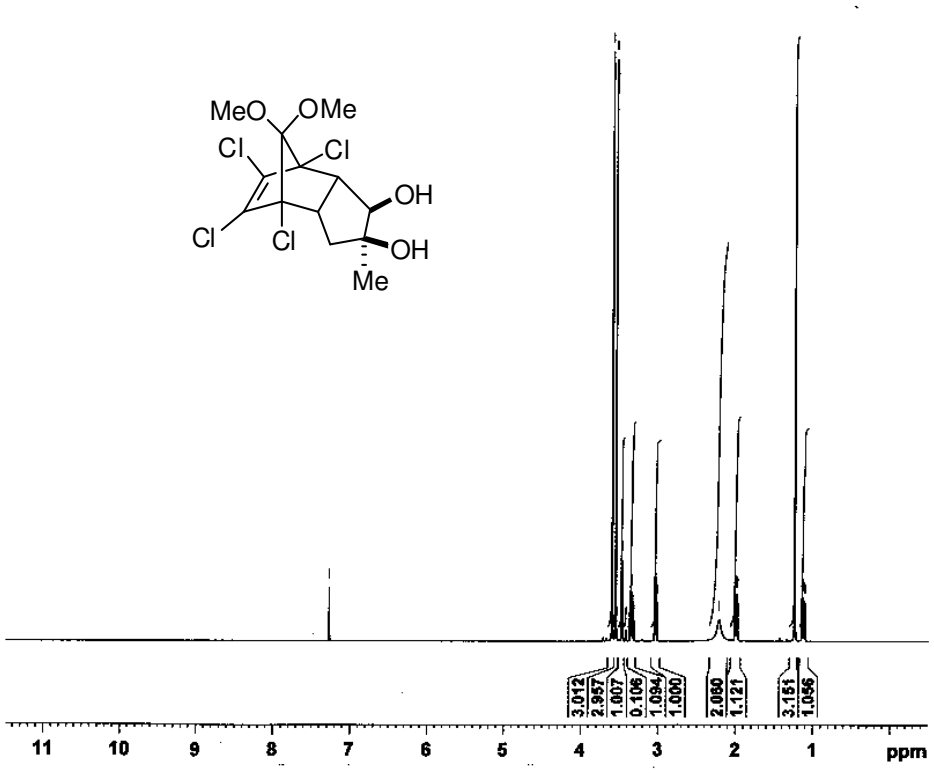
Selected Spectra

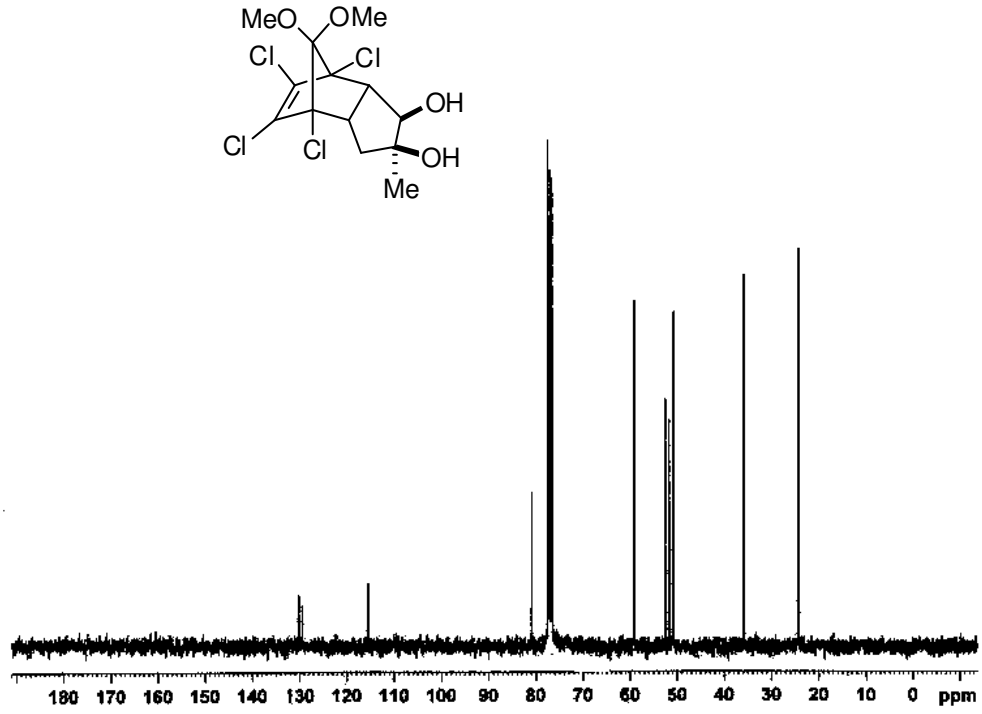
^{1}H&^{13}C NMR (400 MHz, $CDCl_3$) of Compound 2



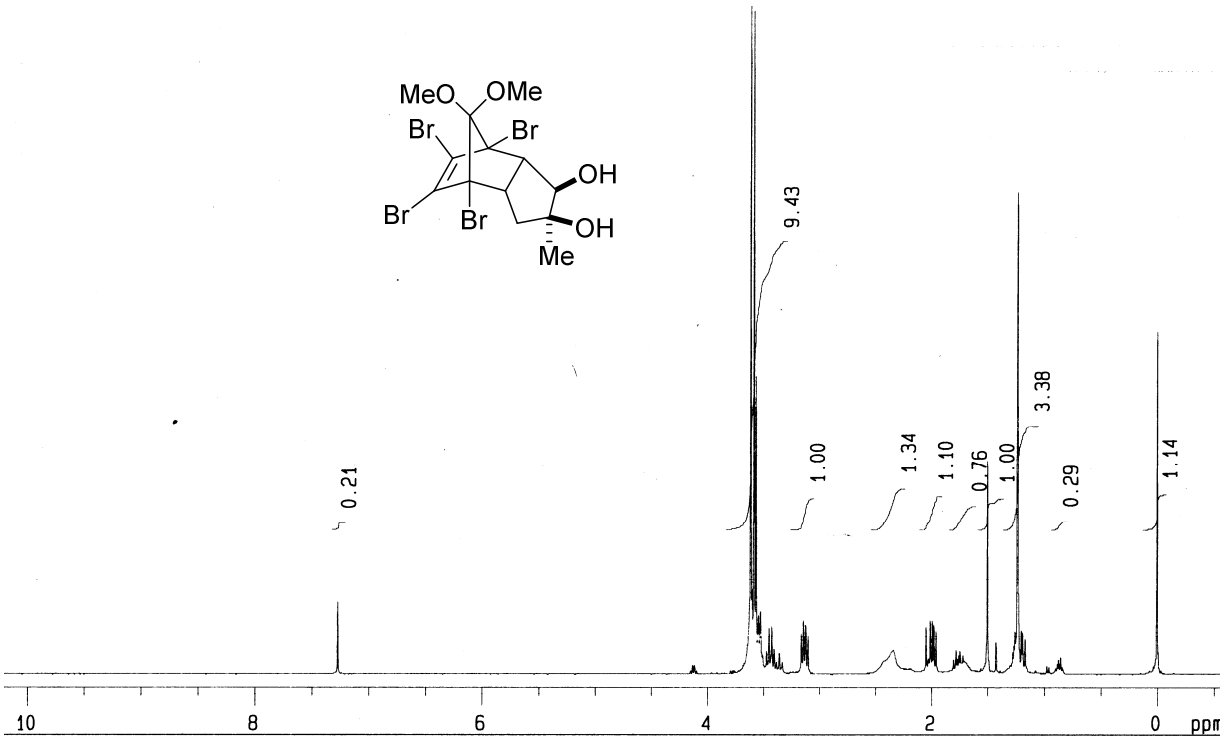


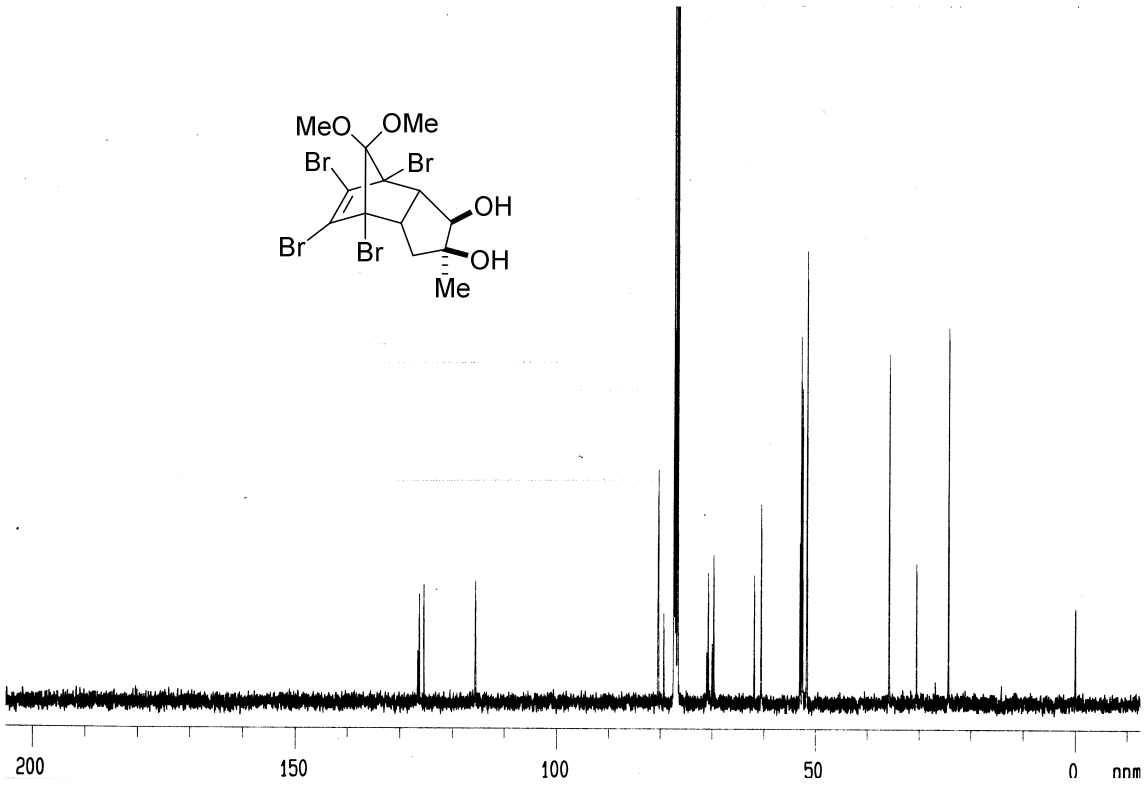
^{1}H (600 MHz, $CDCl_3$) & ^{13}C (75 MHz, $CDCl_3$) NMR of Compound 3



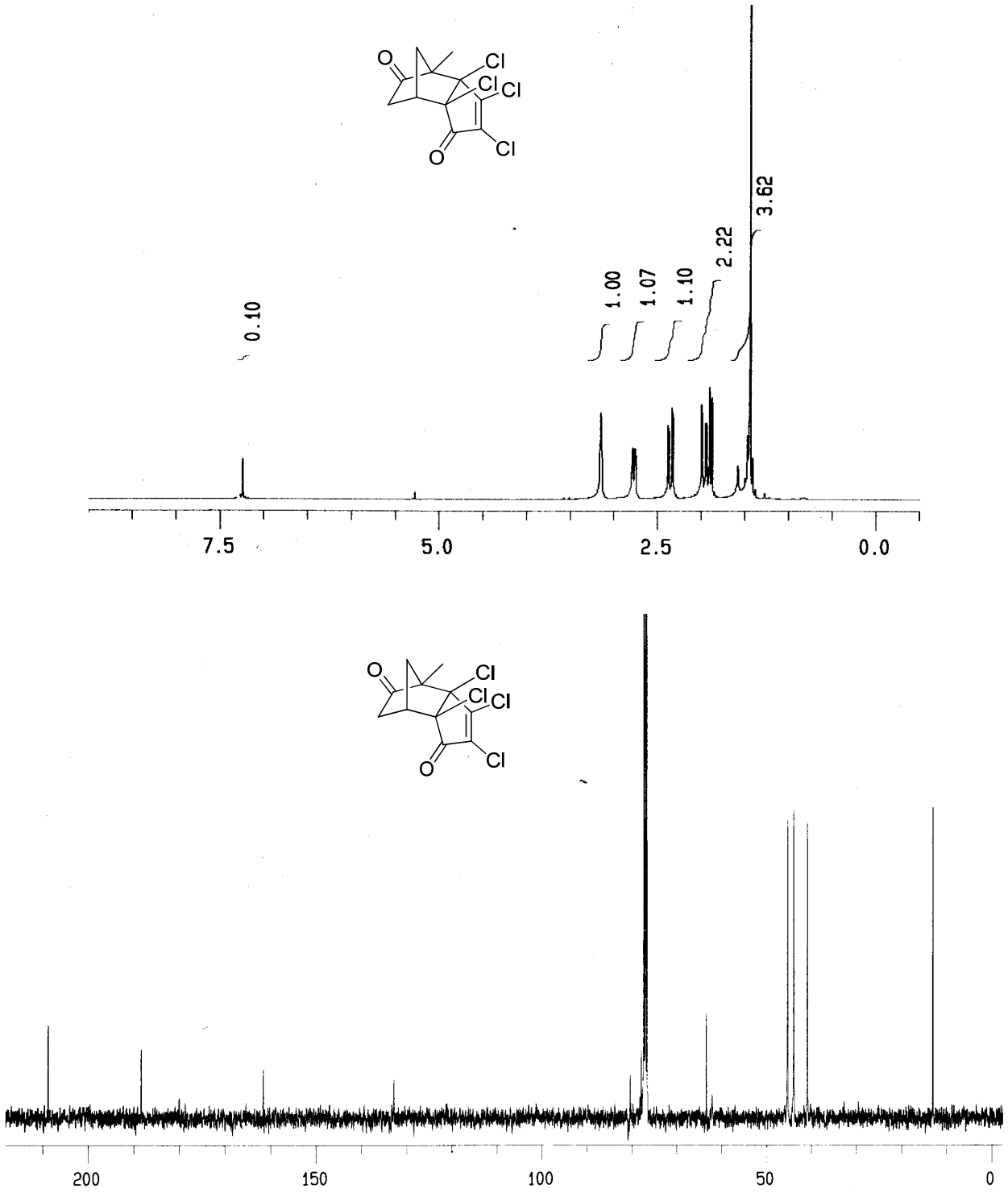


^{1}H (400 MHz, $CDCl_3$) & ^{13}C (100 MHz, $CDCl_3$) NMR of Compound 4

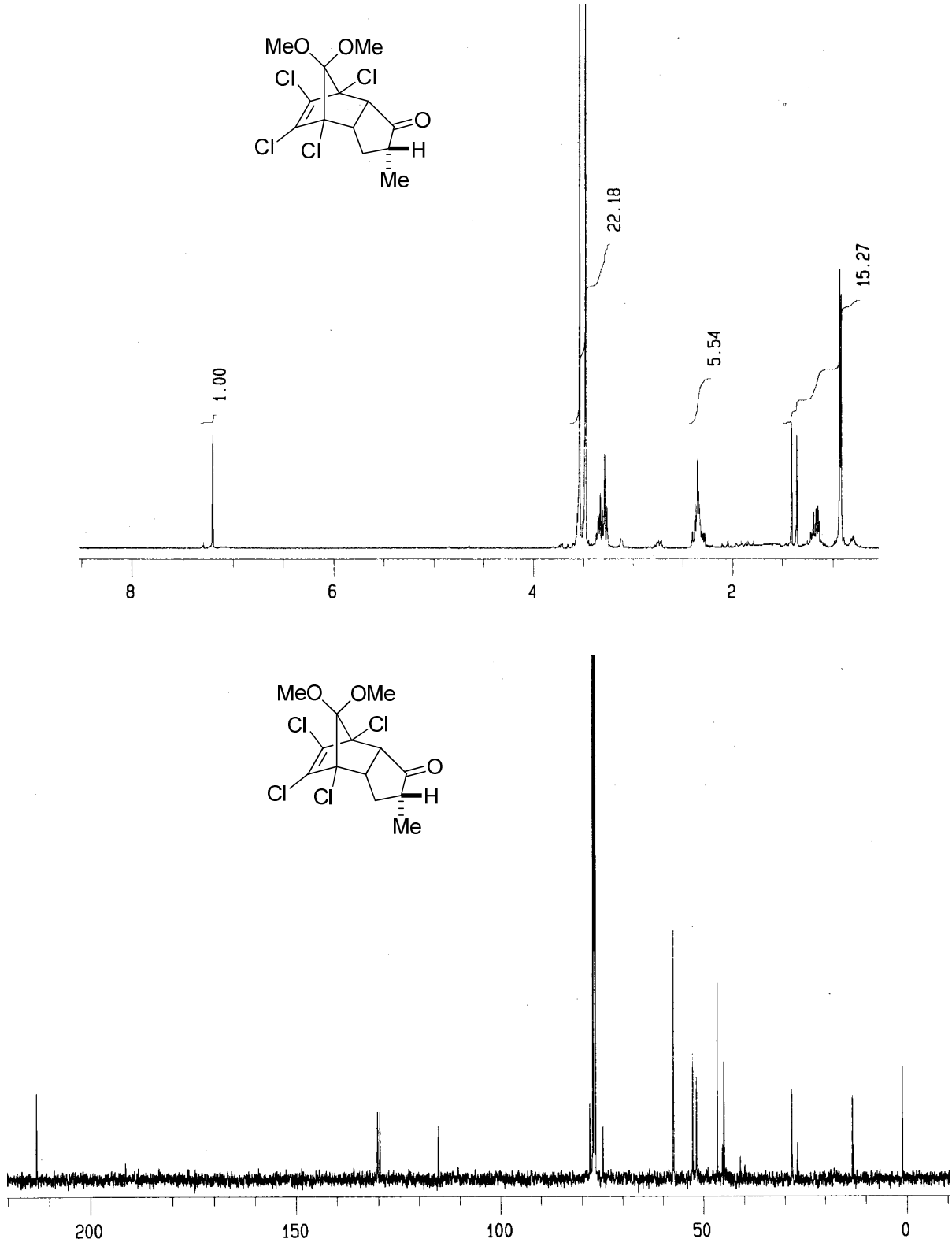




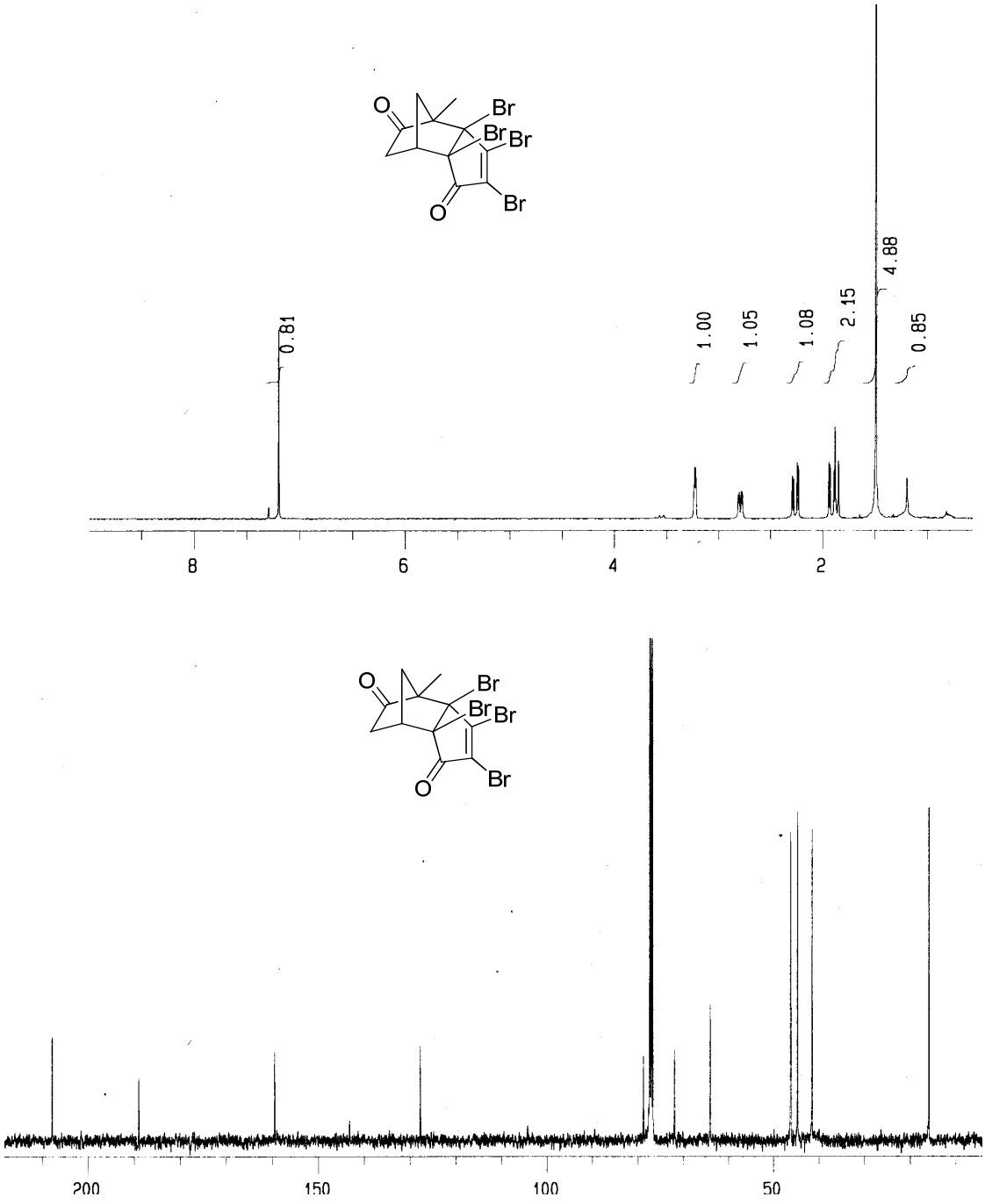
^{1}H NMR (400 MHz) and ^{13}C NMR (100 MHz) of 5 in $CDCl_3$



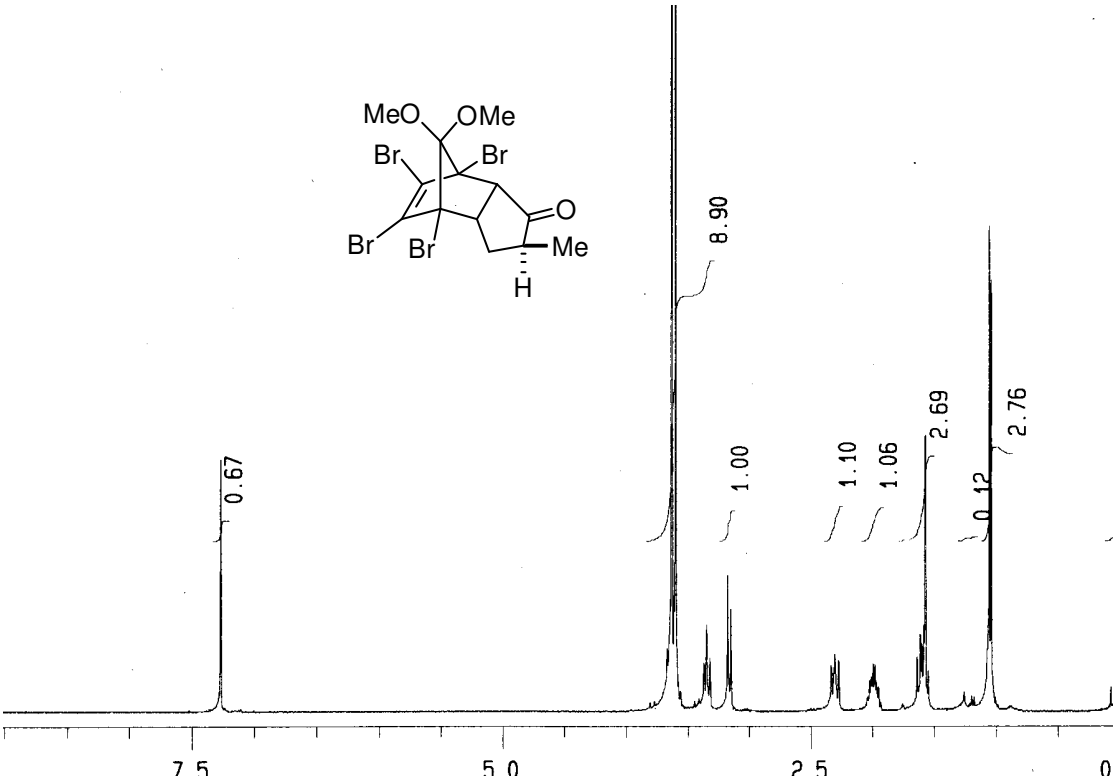
^{1}H NMR (400 MHz) and ^{13}C NMR (100 MHz) of 6 in $CDCl_3$

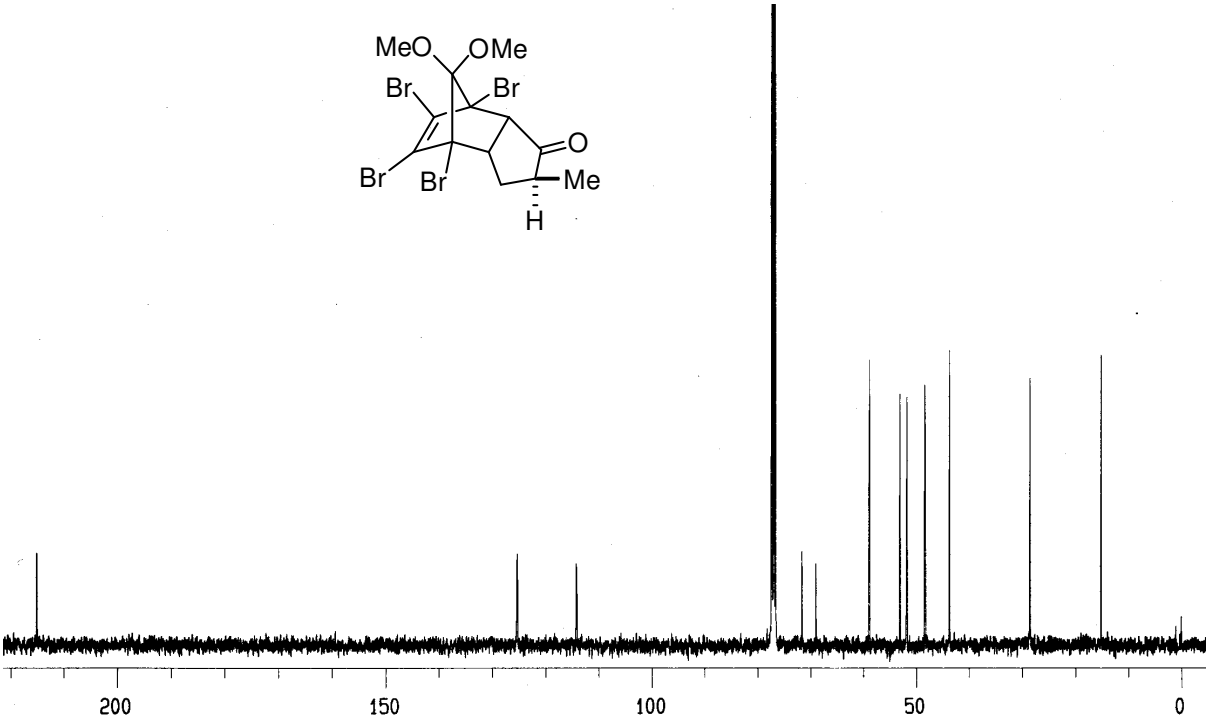


^{1}H NMR (400 MHz) and ^{13}C NMR (100 MHz) of 7 in $CDCl_3$

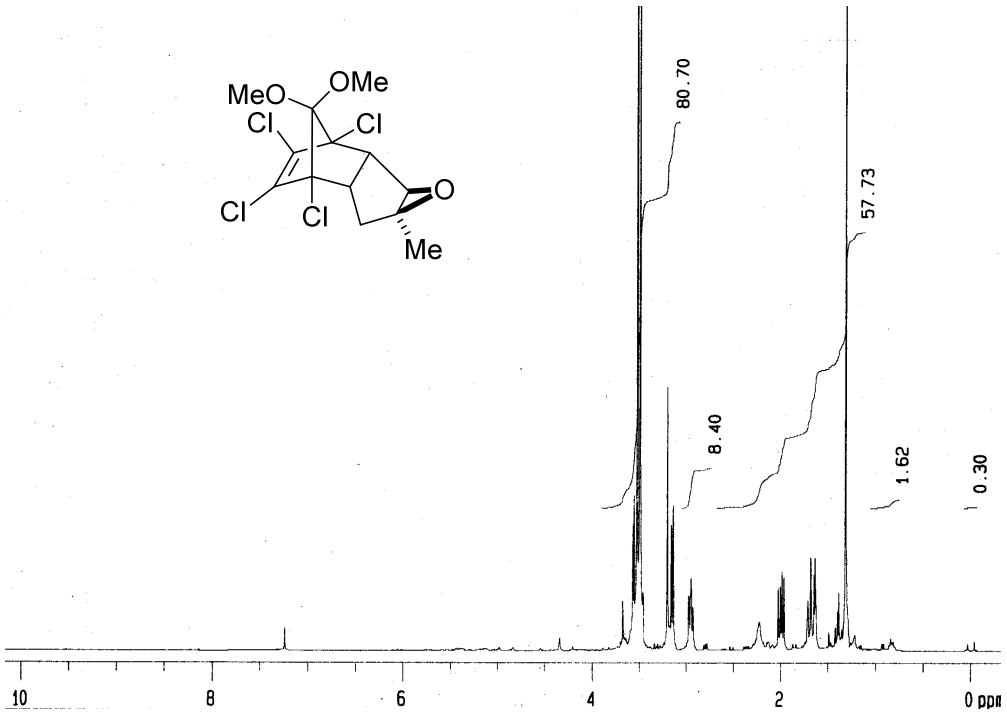


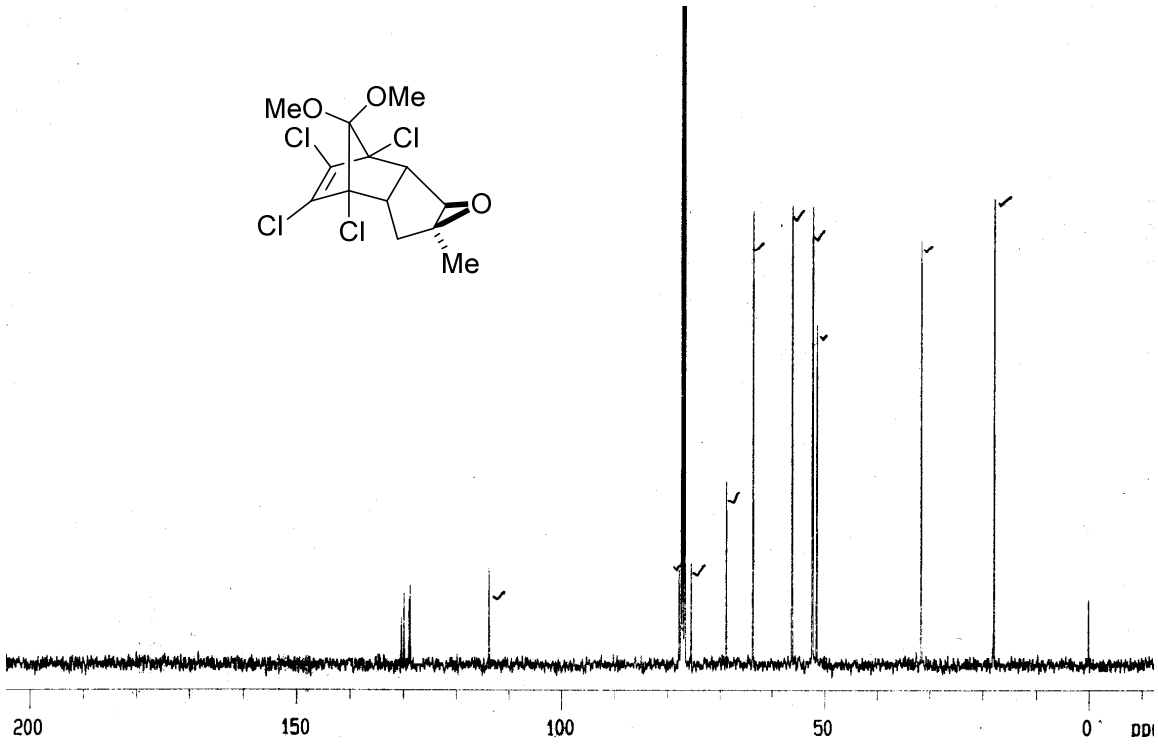
^{1}H NMR (400 MHz) and ^{13}C NMR (100 MHz) of 8 in $CDCl_3$



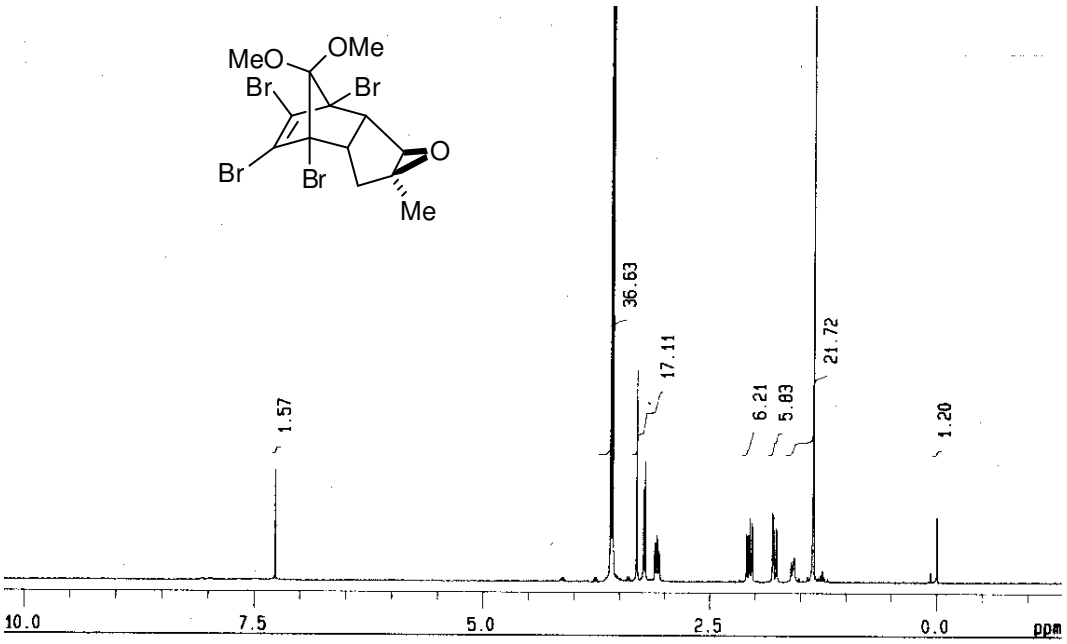


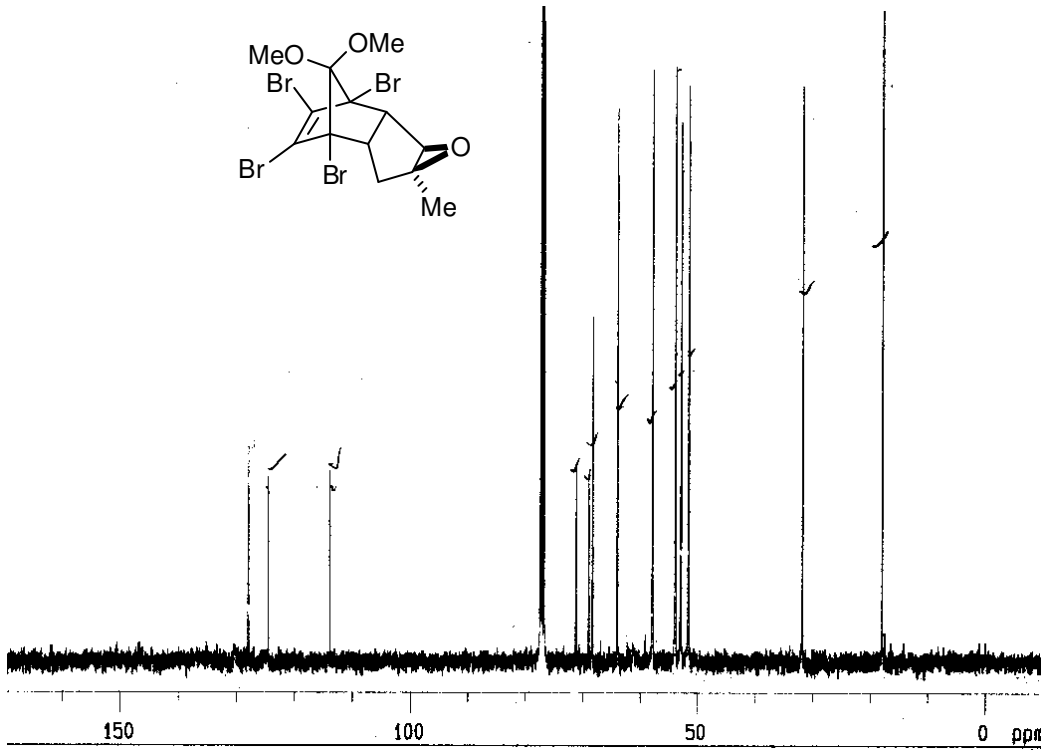
^{1}H NMR (400 MHz, $CDCl_3$) of Compound 9



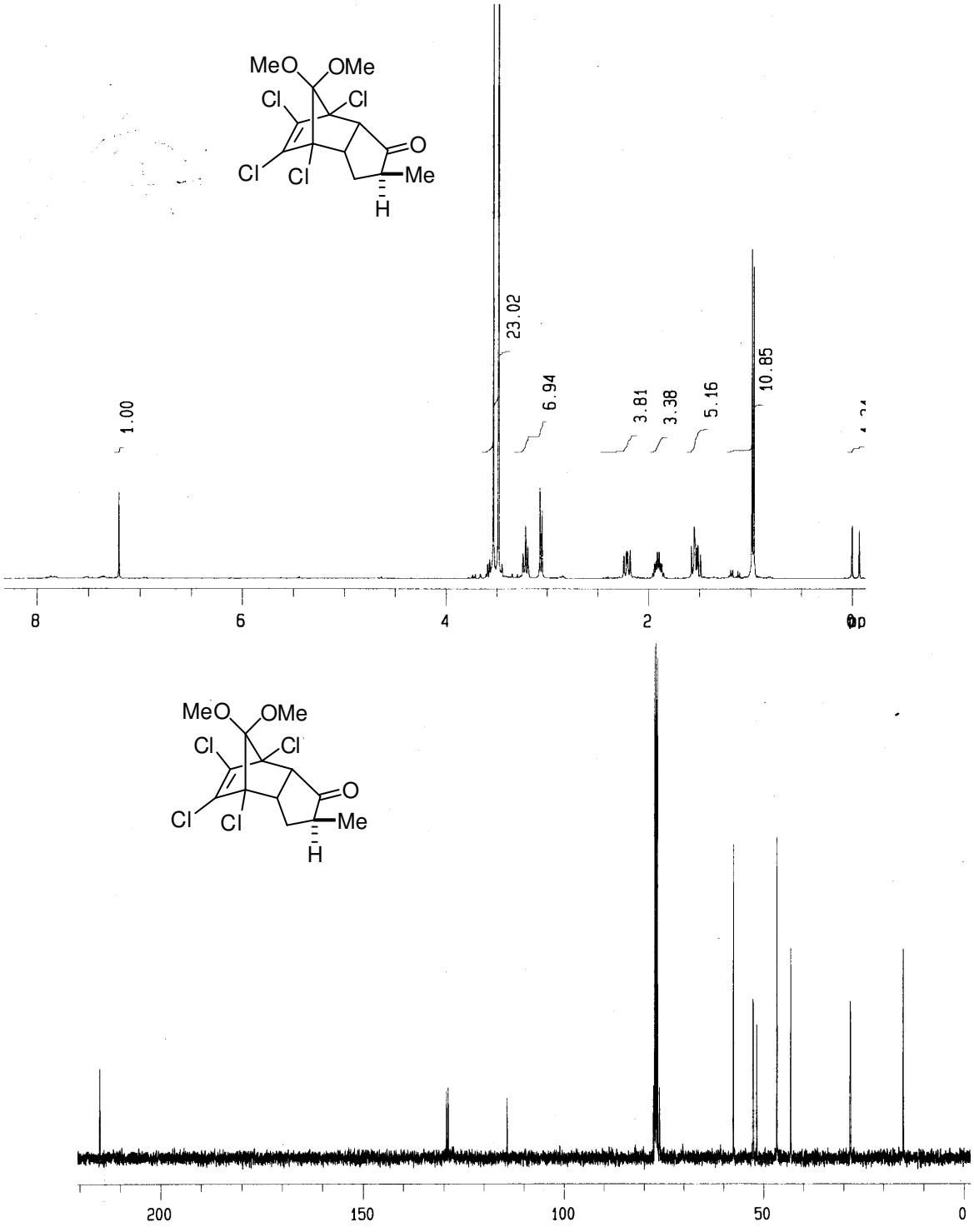


^{1}H NMR (400 MHz, $CDCl_3$) of Compound 10

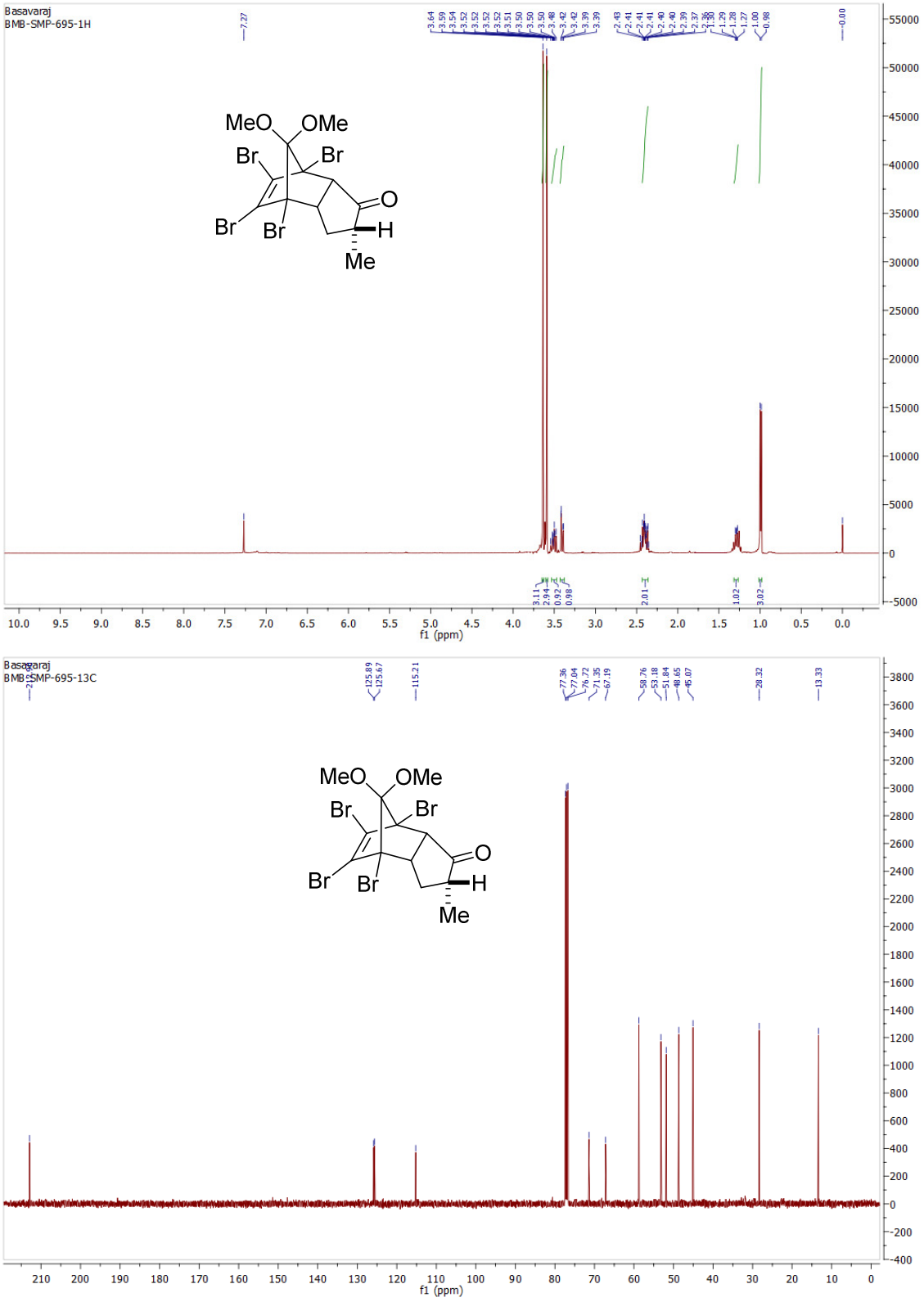




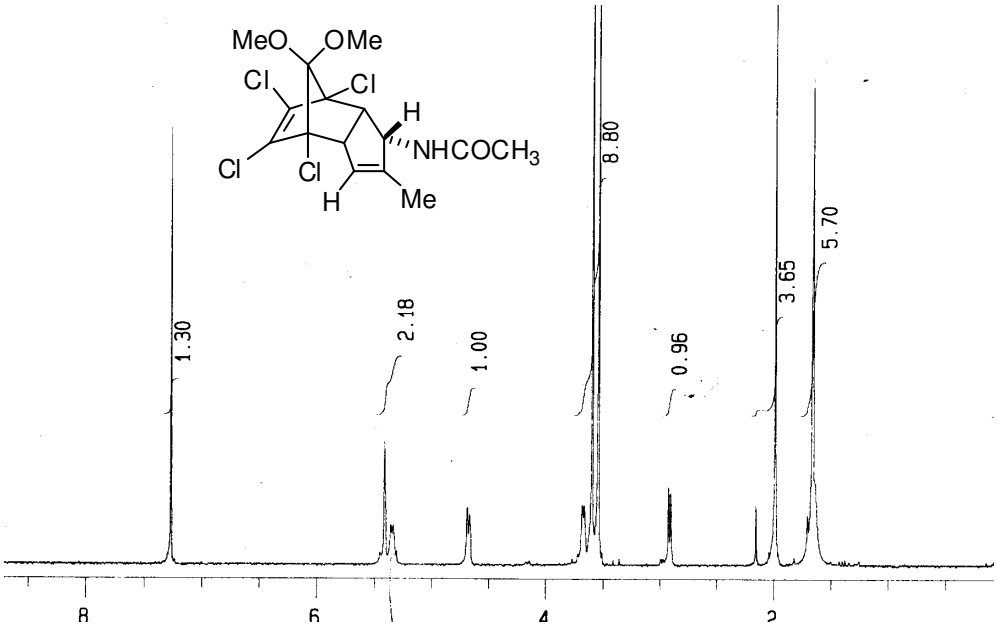
^{1}H NMR (400 MHz) and ^{13}C NMR (100 MHz) of 11 in $CDCl_3$

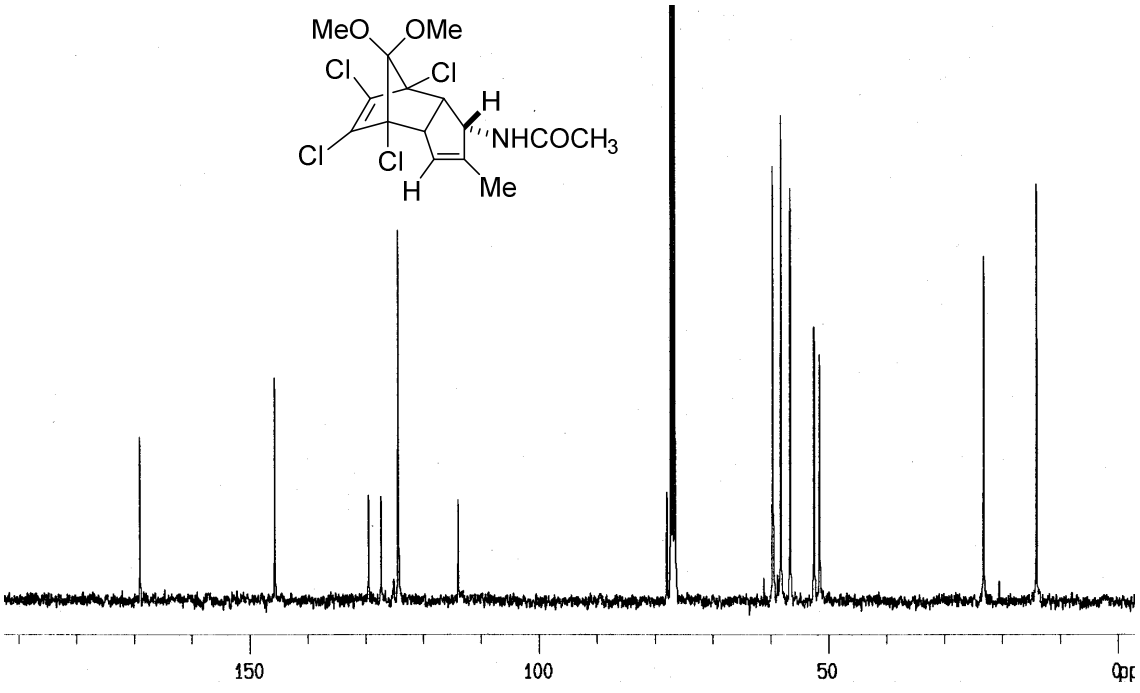


^{1}H NMR (400 MHz) and ^{13}C NMR (100 MHz) of 12 in $CDCl_3$

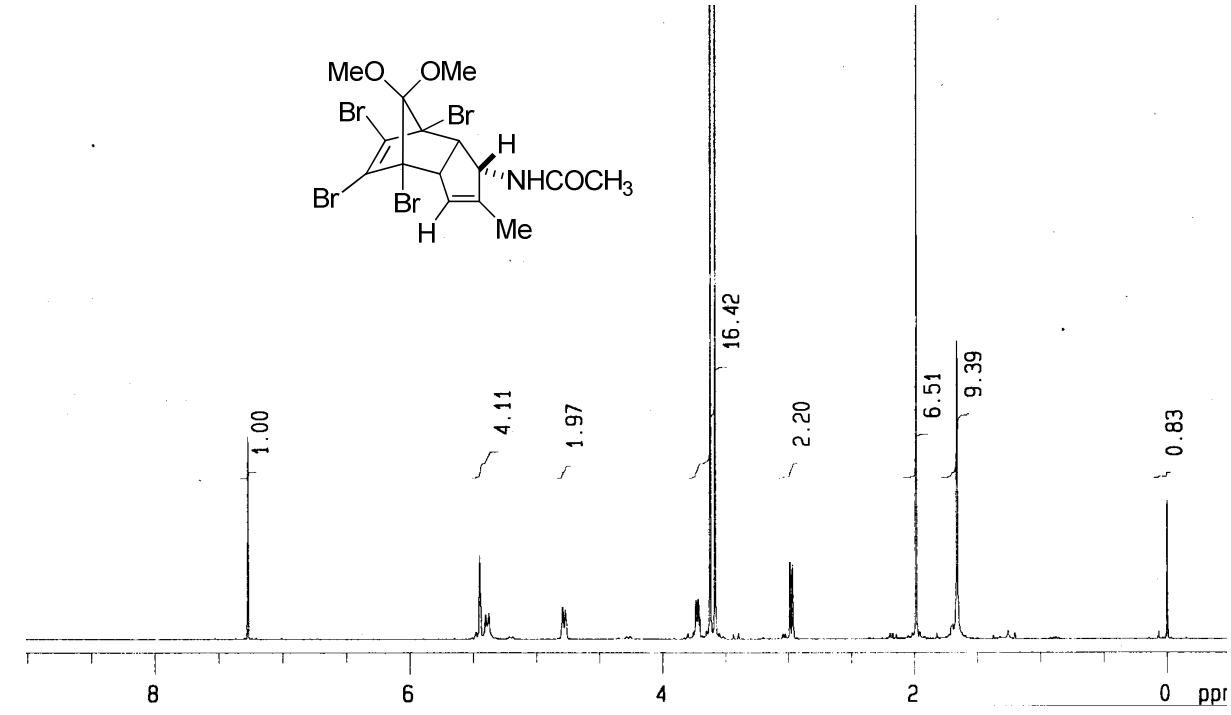


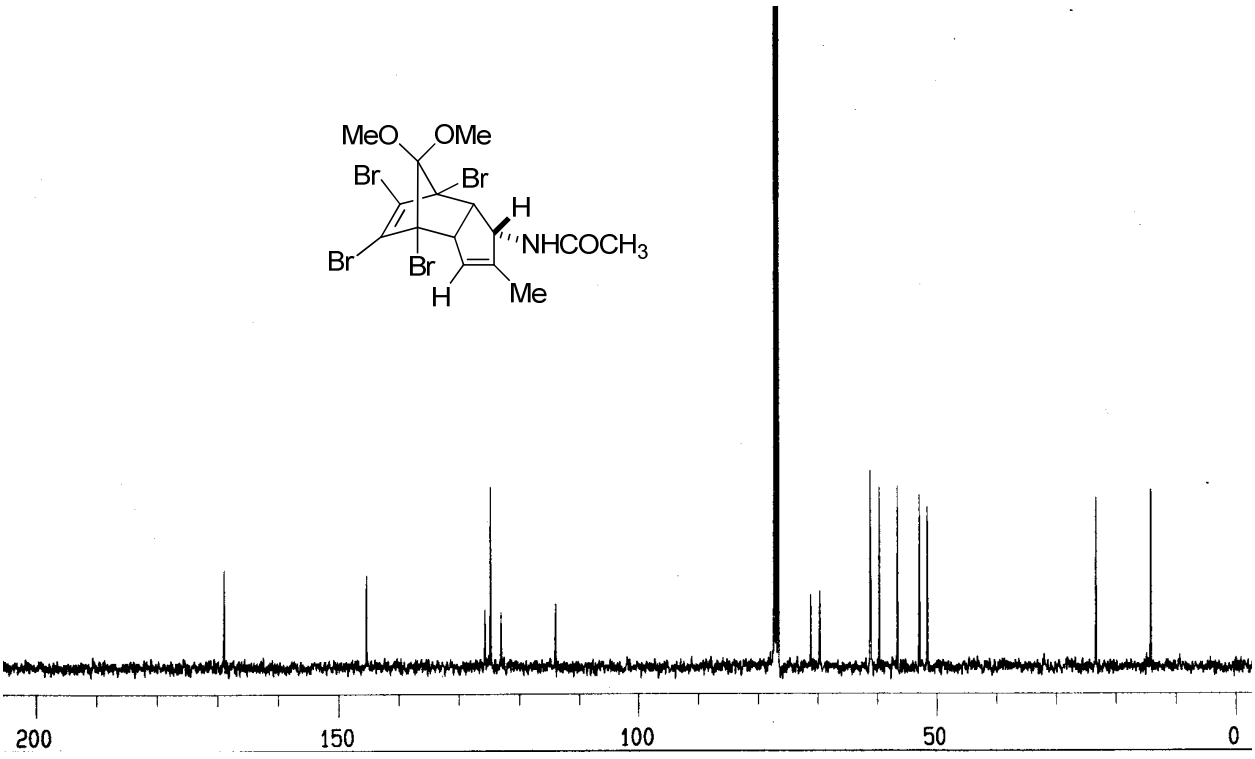
^{1}H NMR (400 MHz) and ^{13}C NMR (100 MHz) of 13 in $CDCl_3$



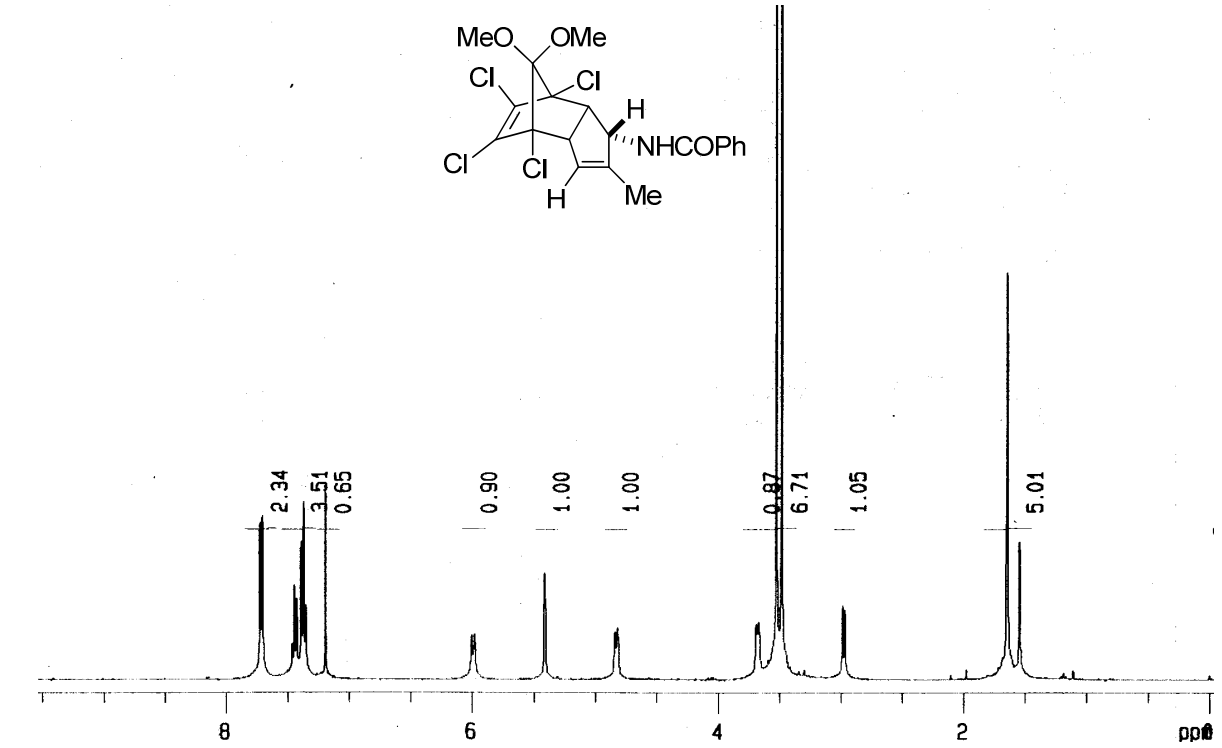


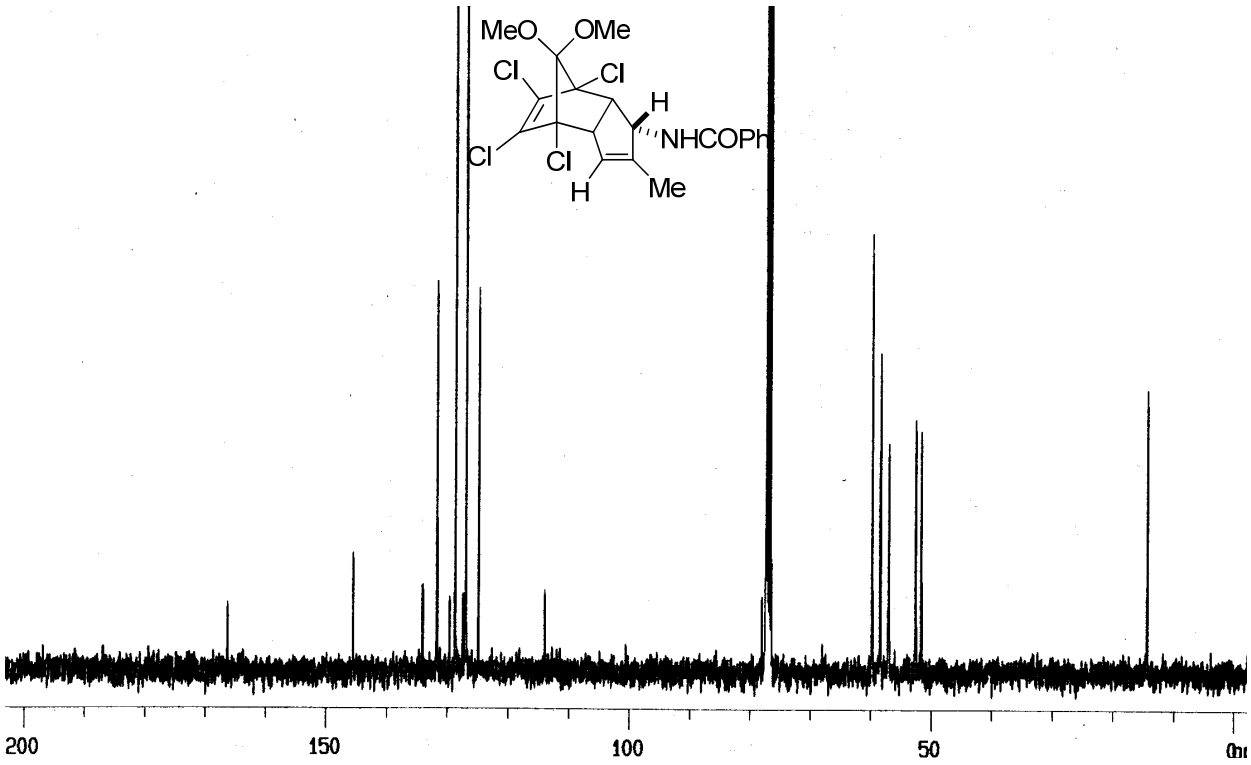
^{1}H NMR (400 MHz) and ^{13}C NMR (100 MHz) of 14 in $CDCl_3$



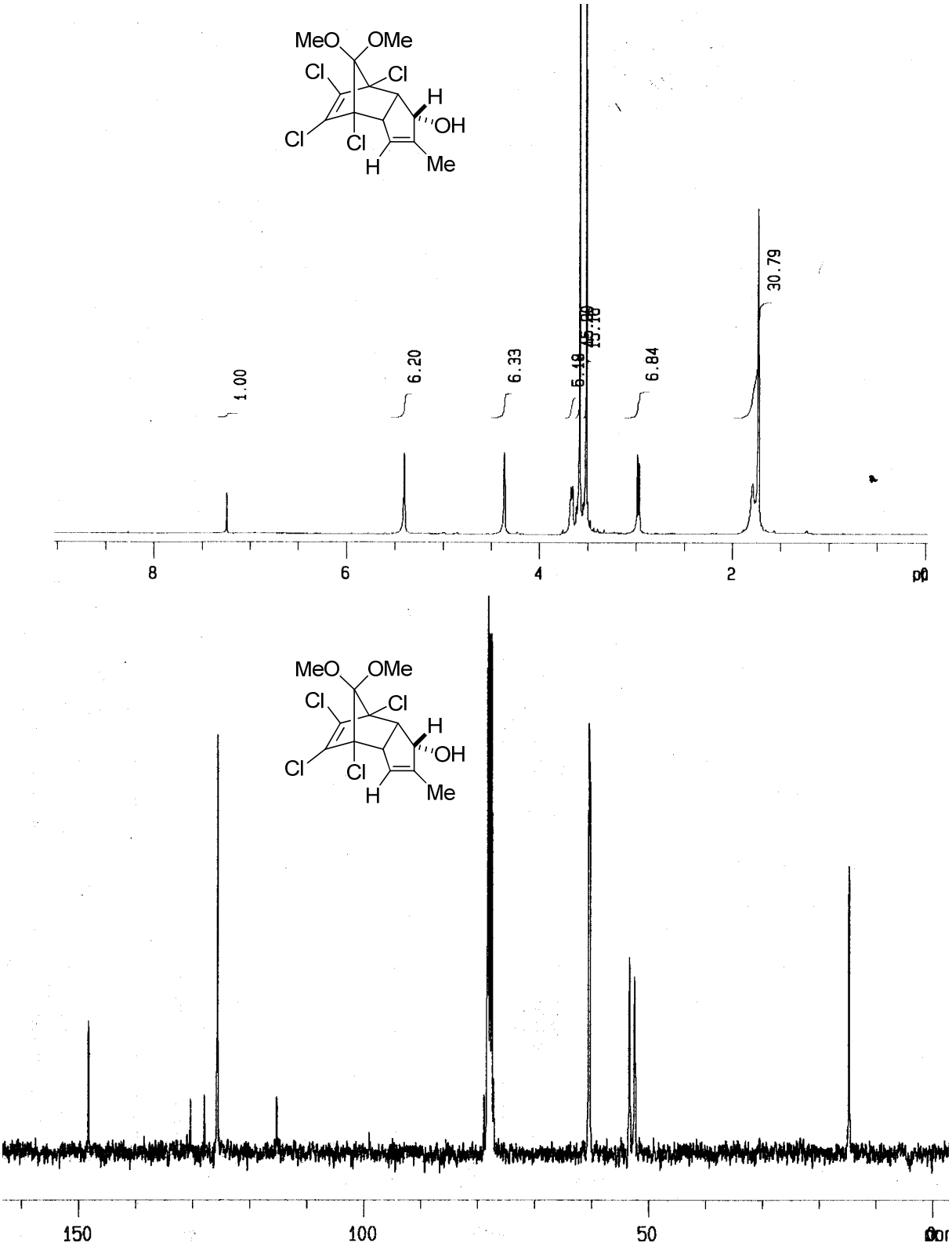


^{1}H NMR (400 MHz) and ^{13}C NMR (100 MHz) of 15 in $CDCl_3$

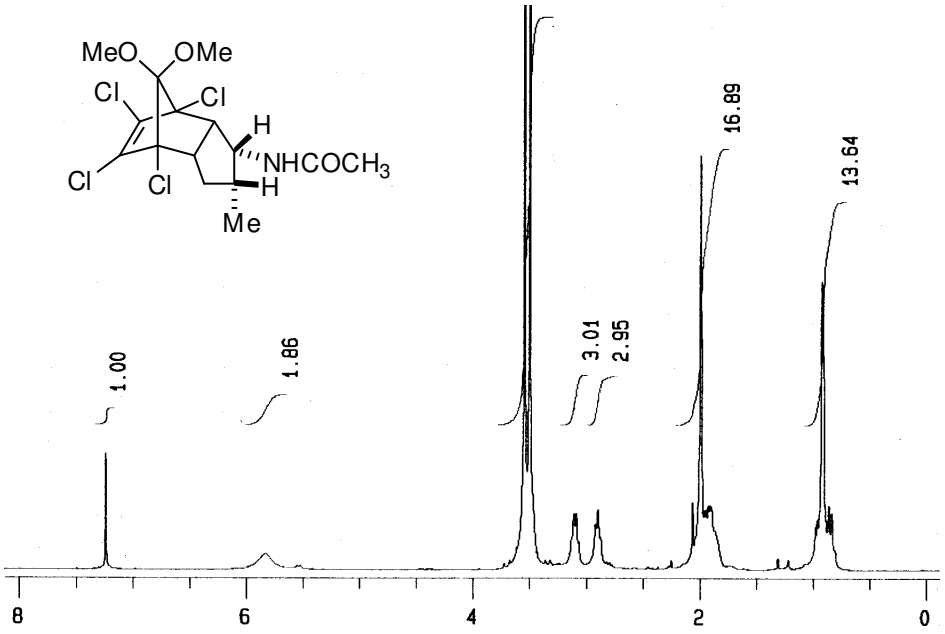


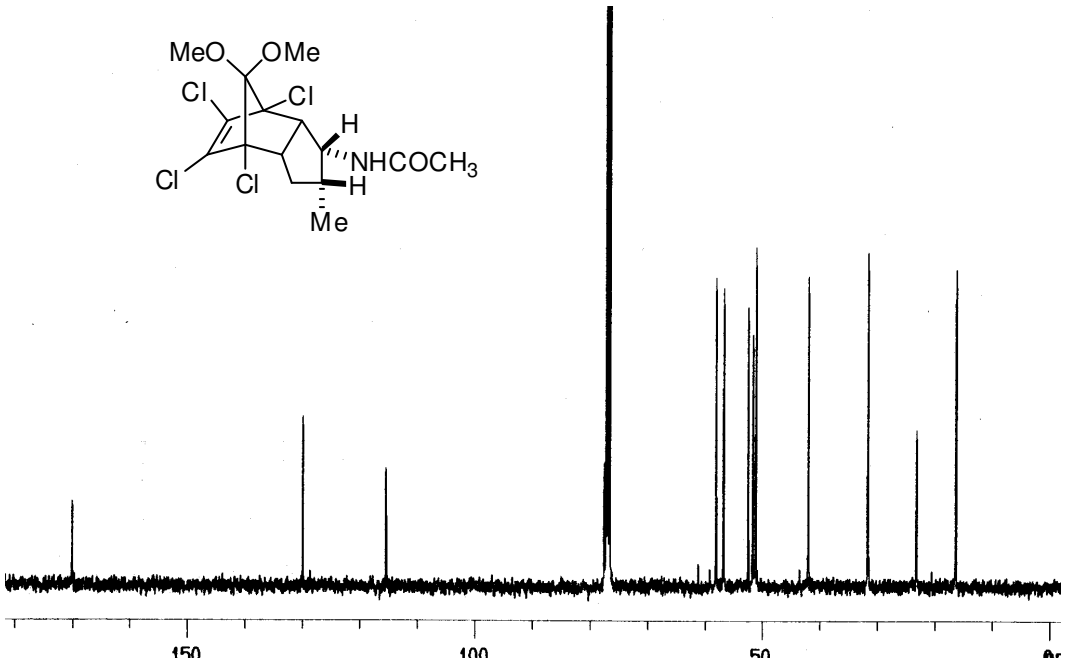


^{1}H NMR (400 MHz) and ^{13}C NMR (100 MHz) of 16 in $CDCl_3$

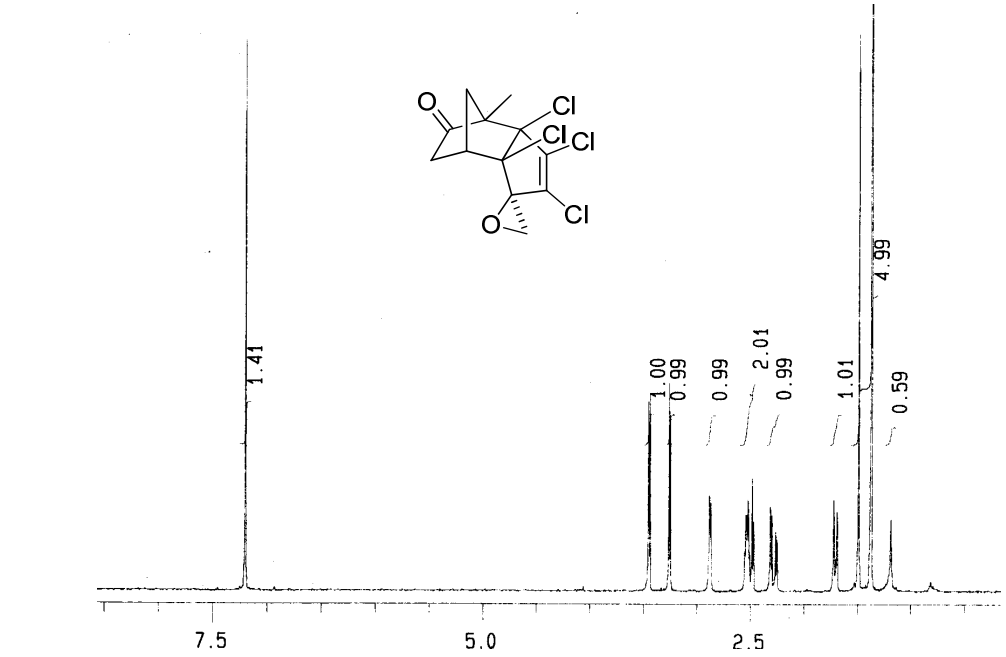


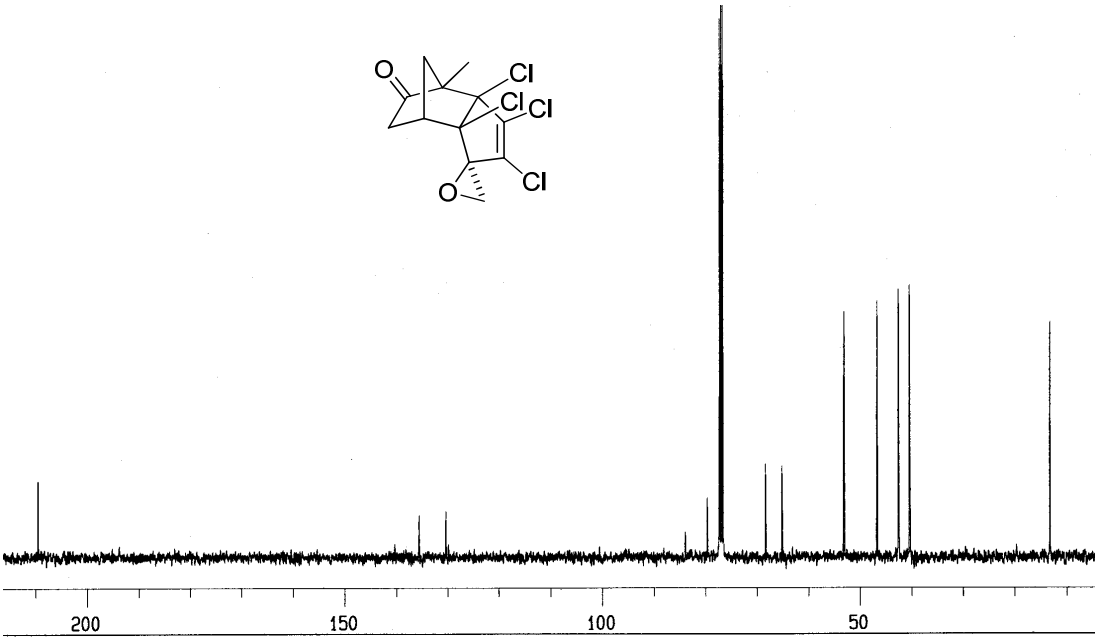
^{1}H NMR (400 MHz) and ^{13}C NMR (100 MHz) of 17 in $CDCl_3$



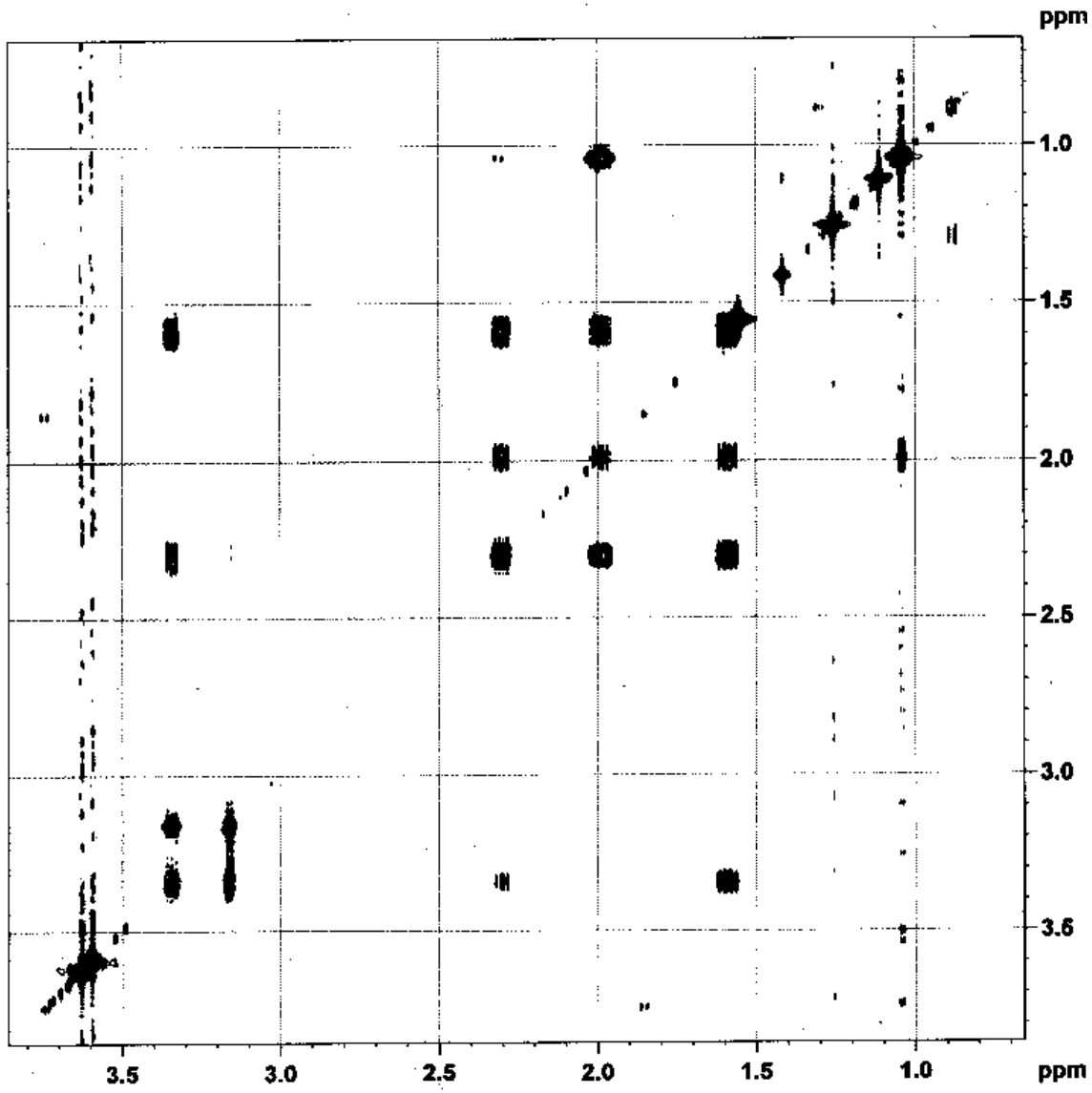


^{1}H NMR (400 MHz) and ^{13}C NMR (100 MHz) of 18 in $CDCl_3$

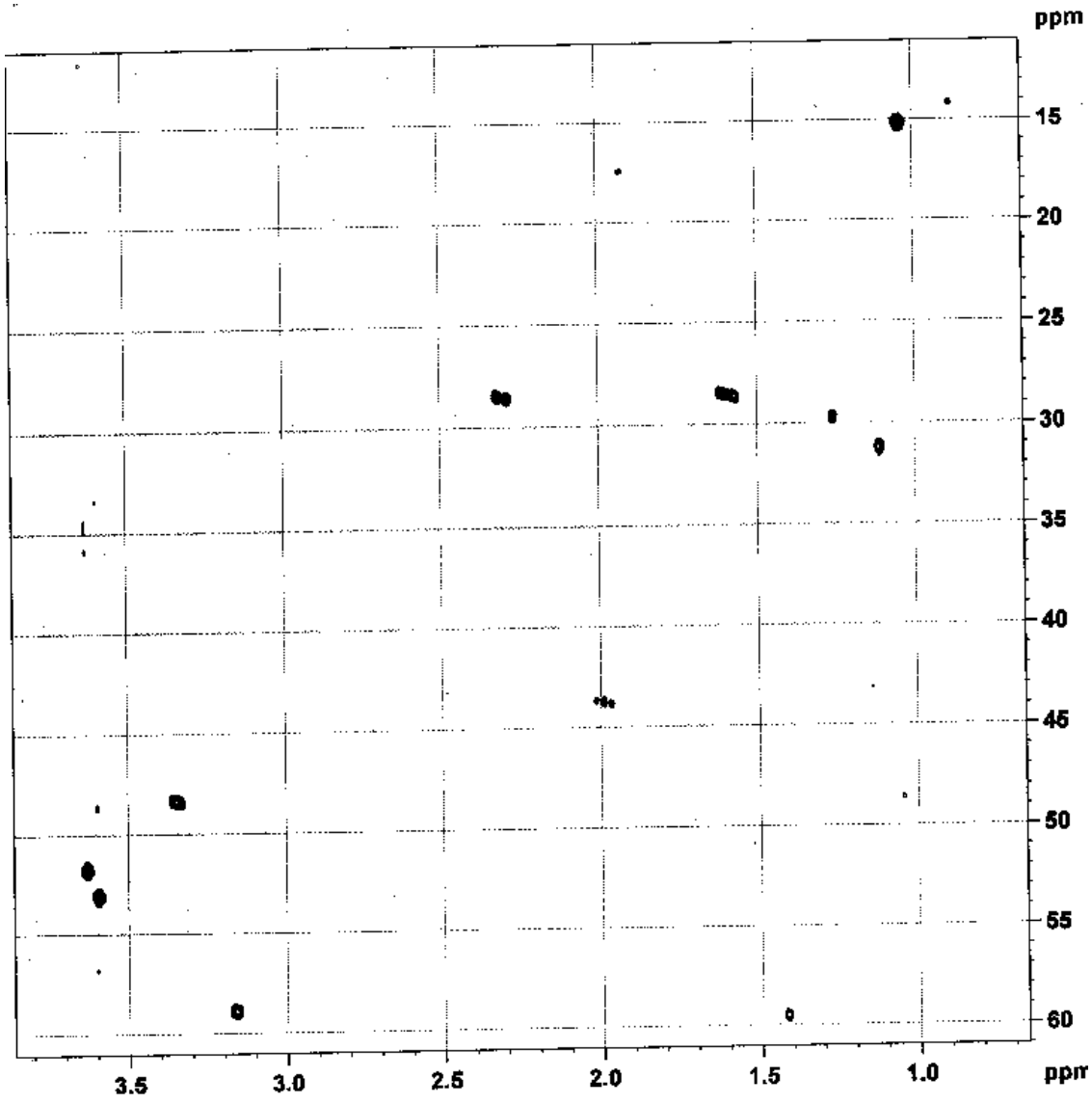




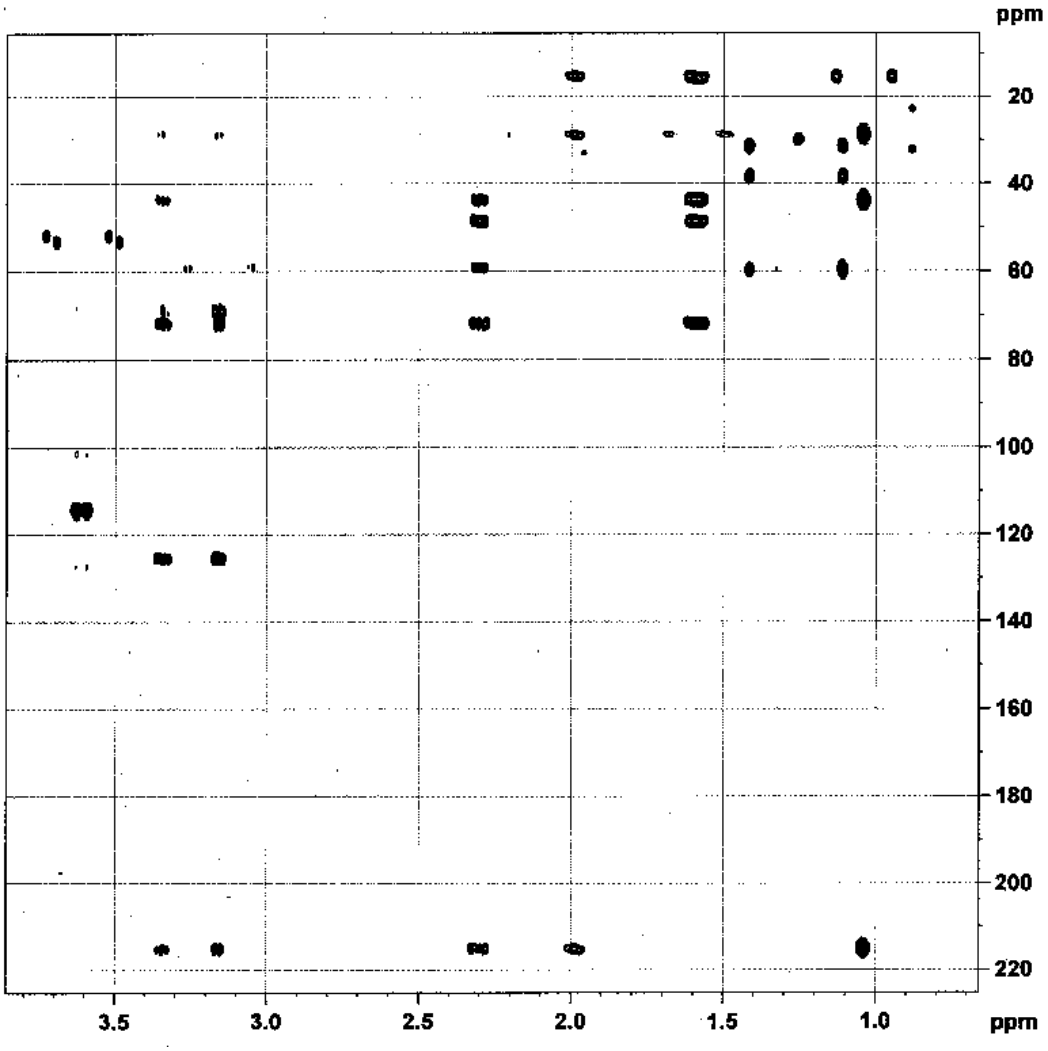
600 MHz $^{1}H/^{1}H$ COSY spectrum of 8 in $CDCl_3$ solution



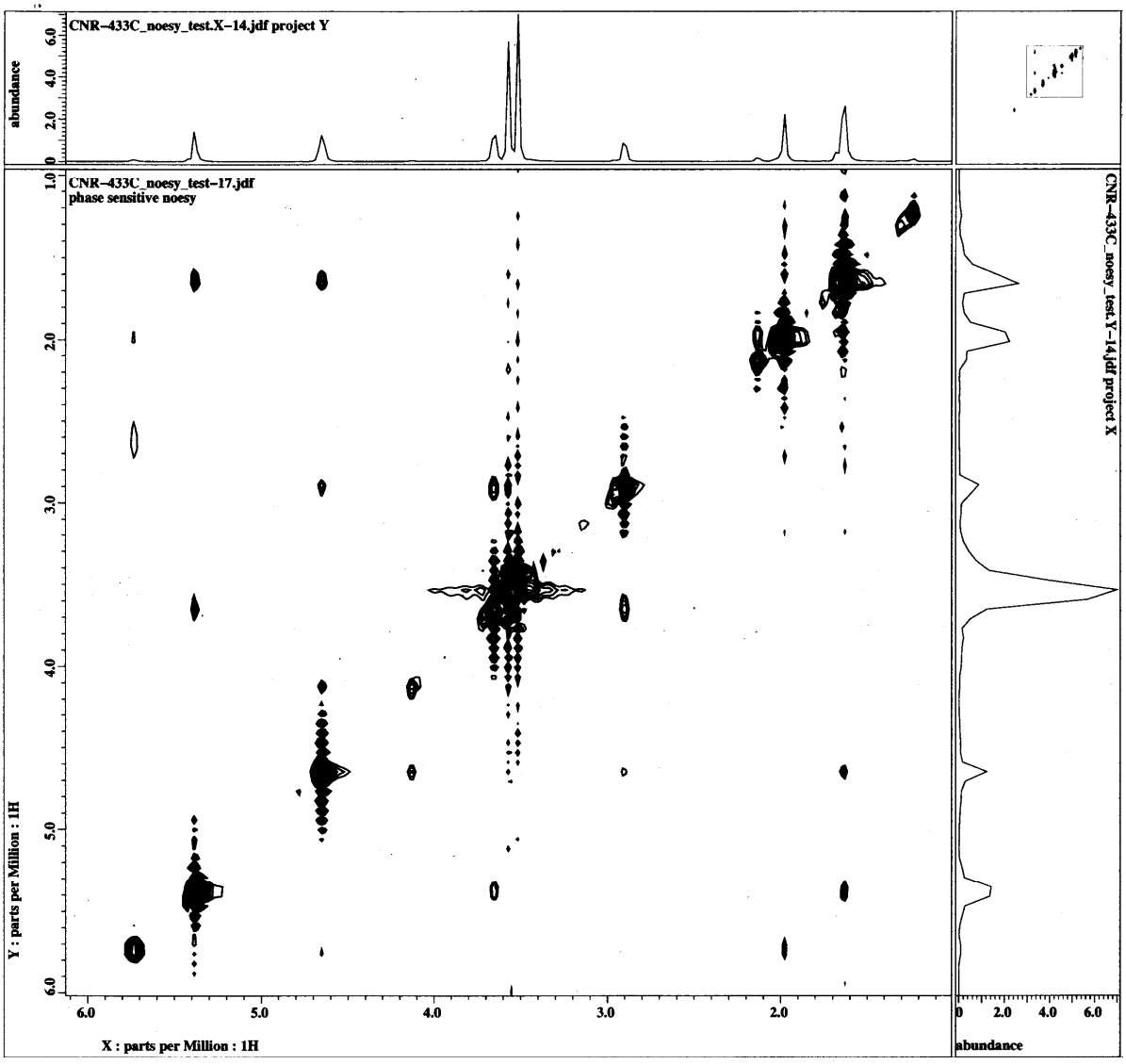
600 MHz HMQC spectrum of 8 in $CDCl_3$ solution



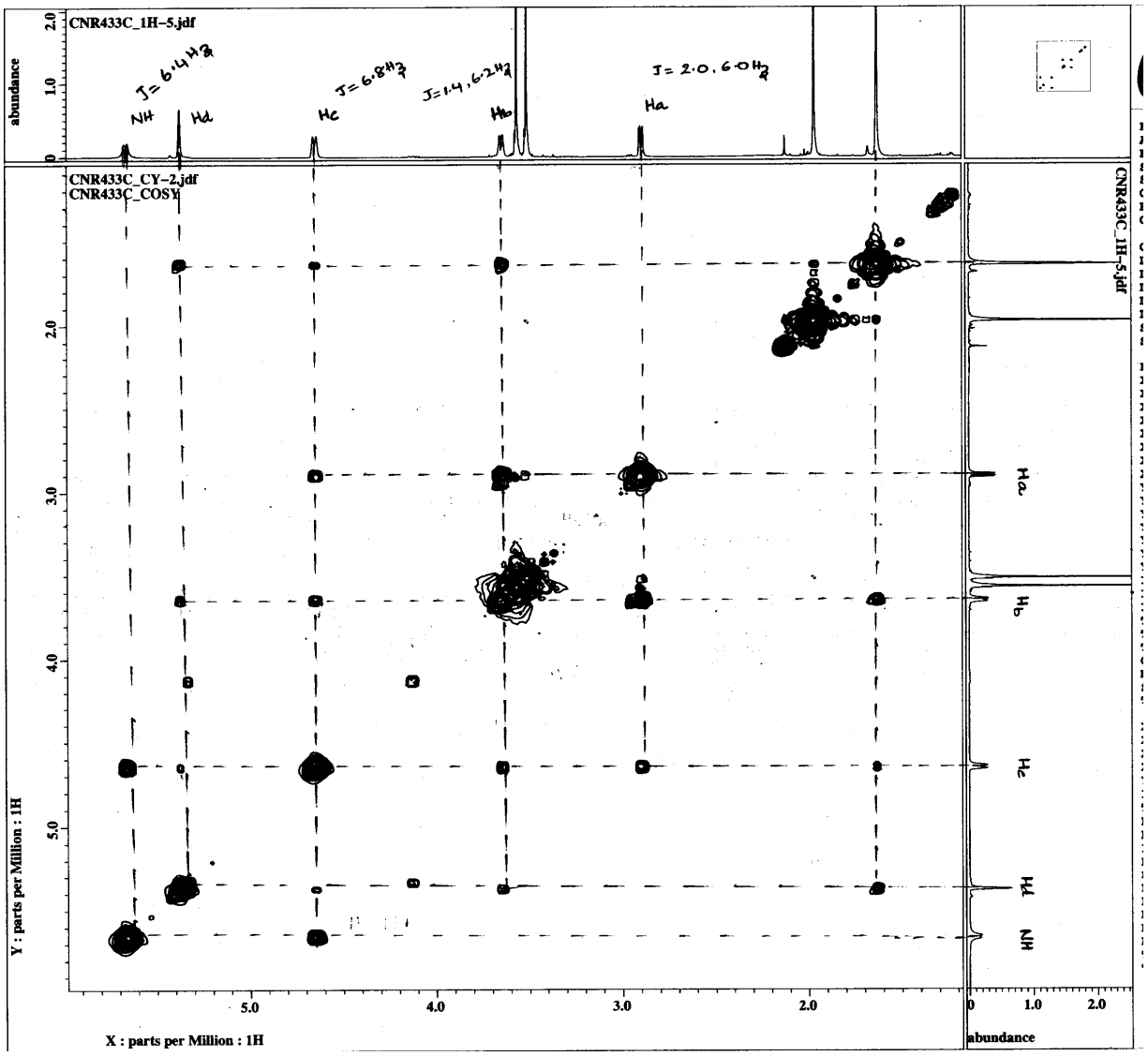
600 MHz HMBC spectrum of 8 in $CDCl_3$ solution



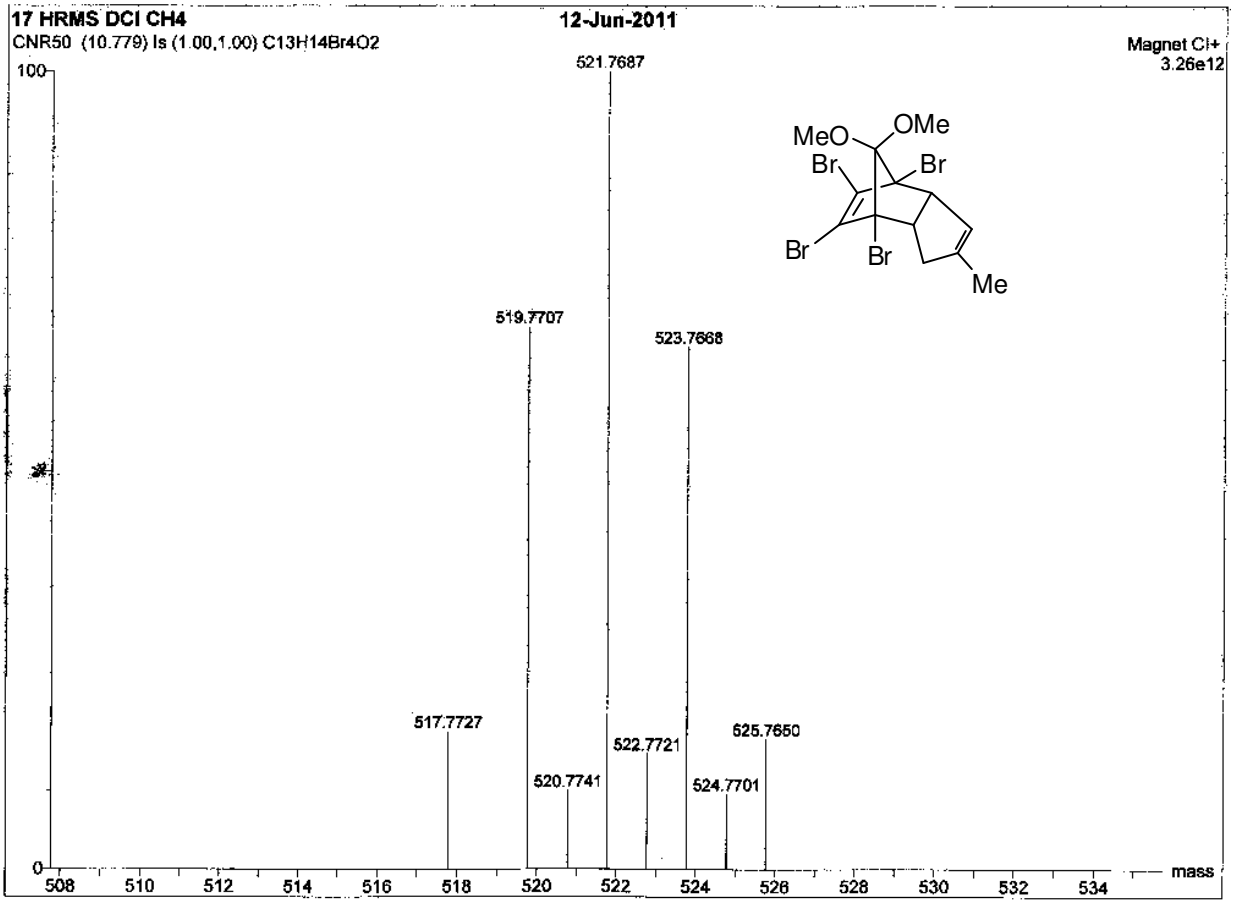
500 MHz $^{1}H/^{1}H$ NOESY spectrum of 13 in $CDCl_3$ solution



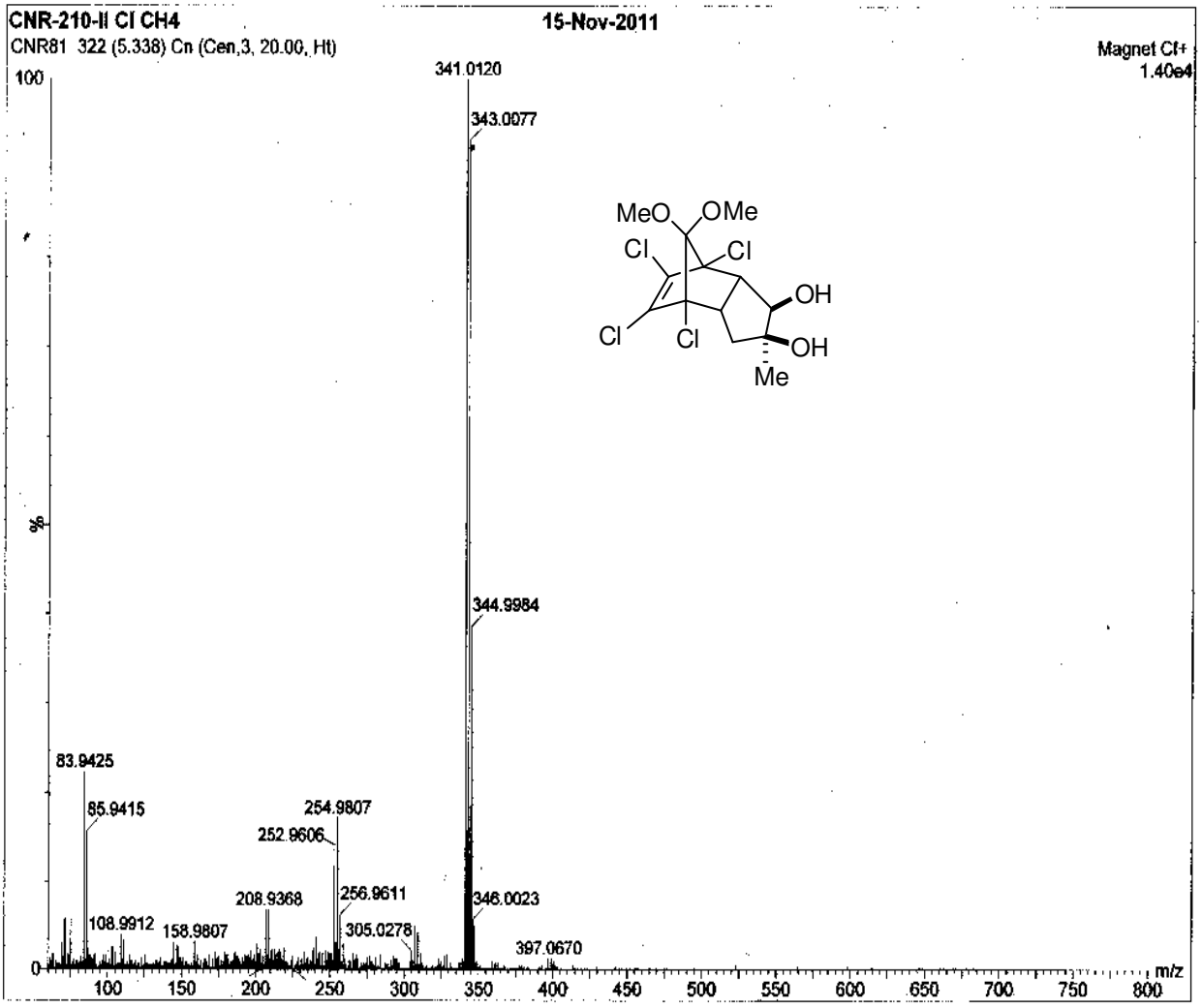
500 MHz $^1H/^1H$ COSY spectrum of 13 in $CDCl_3$ solution



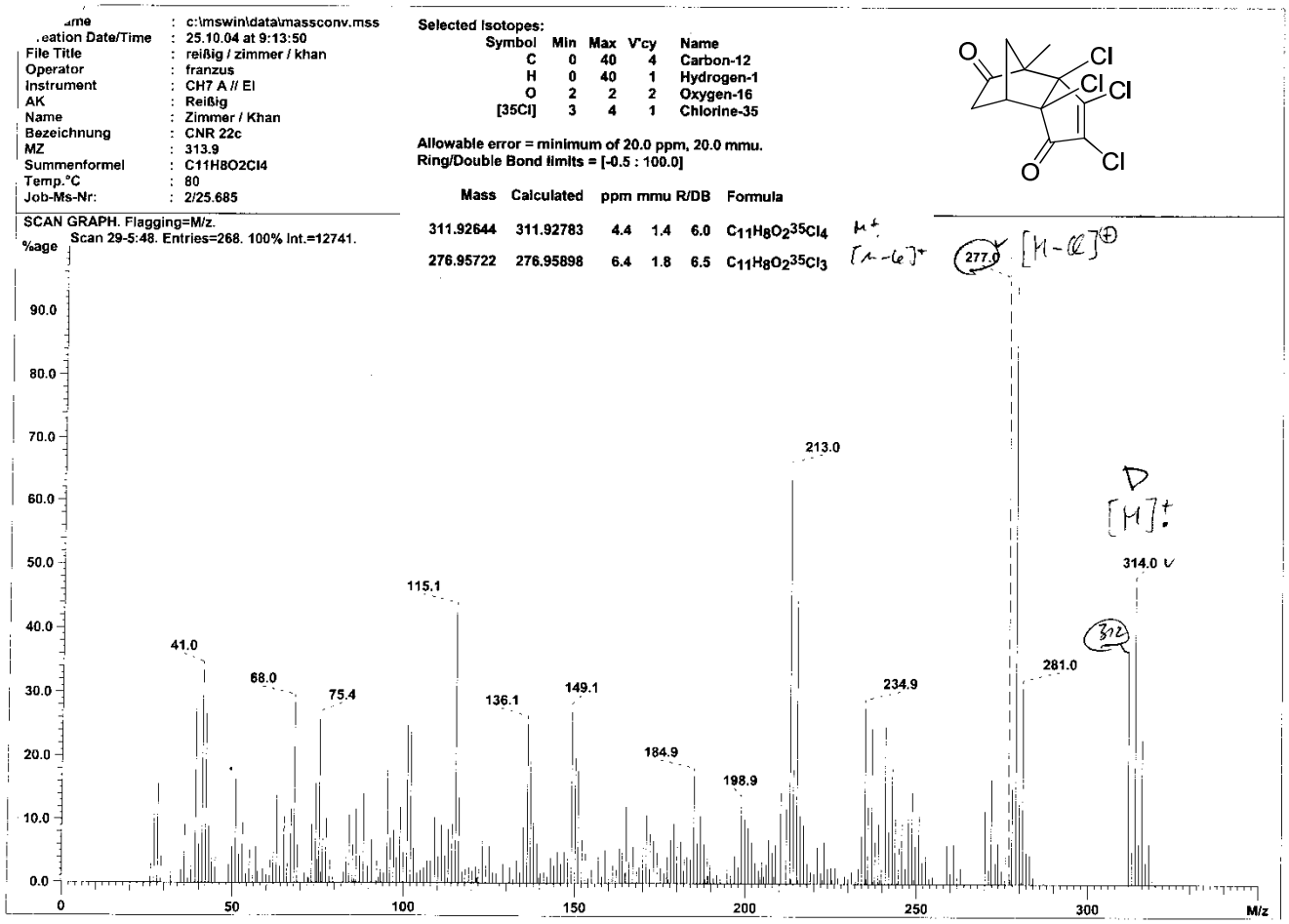
HRMS (DCI) of Compound 2



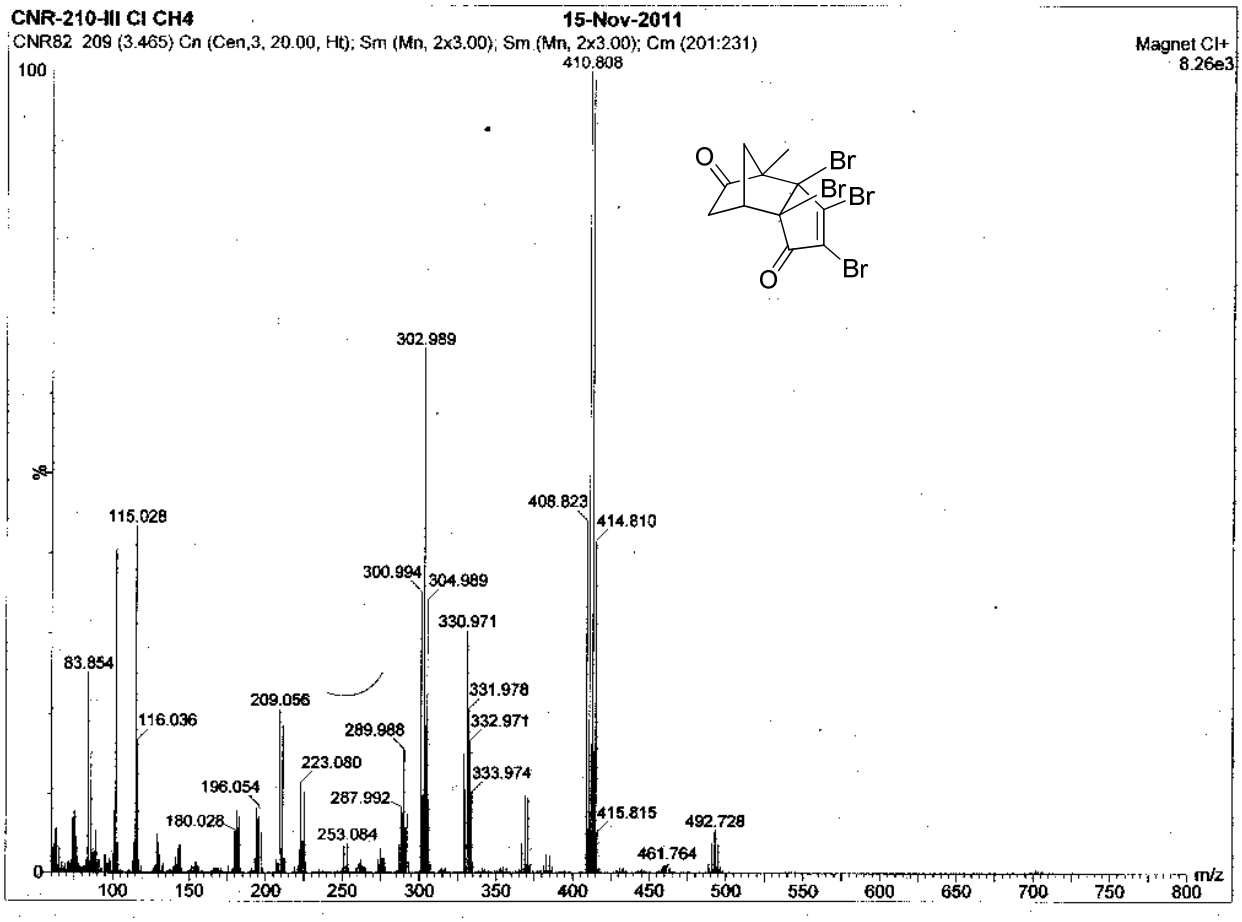
HRMS (DCI) of Compound 3



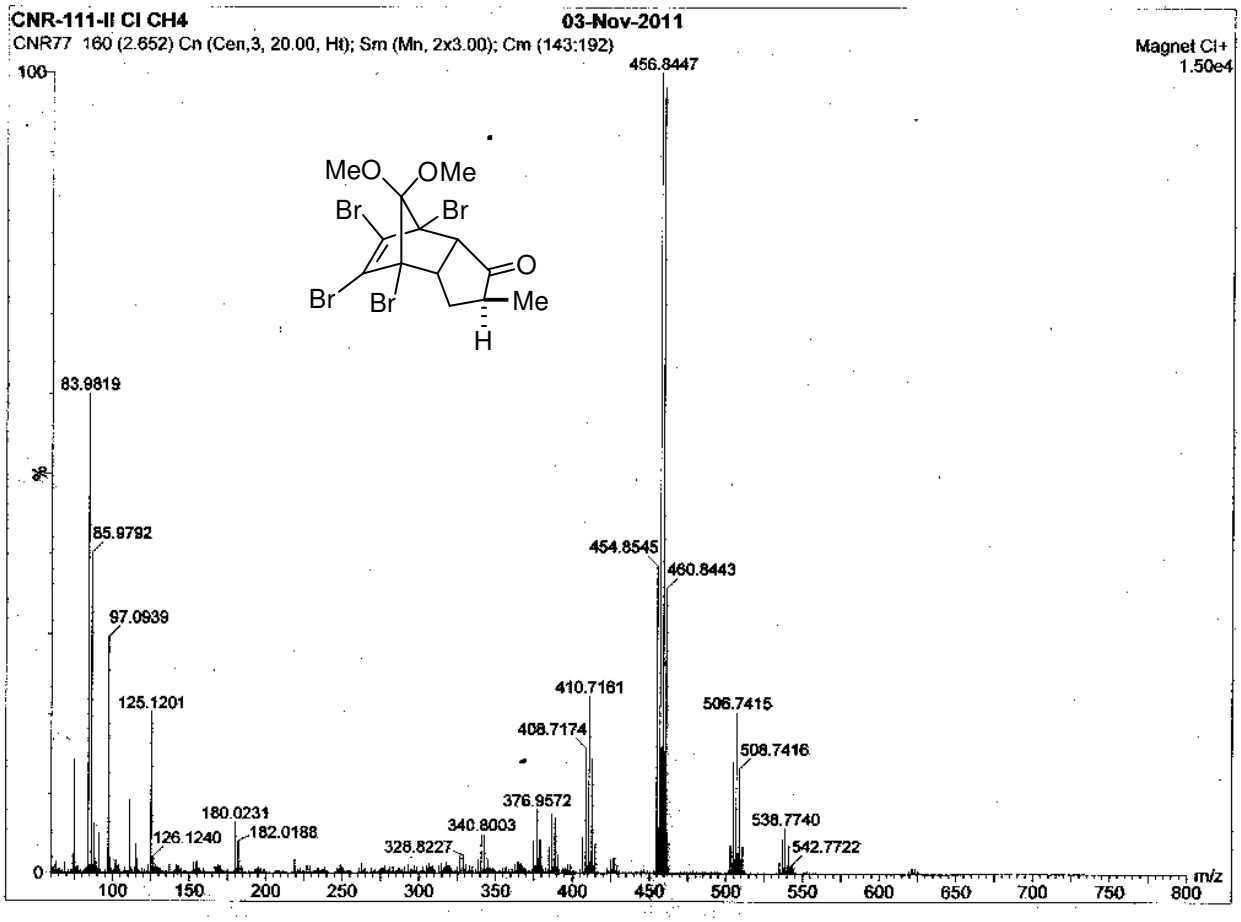
HRMS (EI) of Compound 5



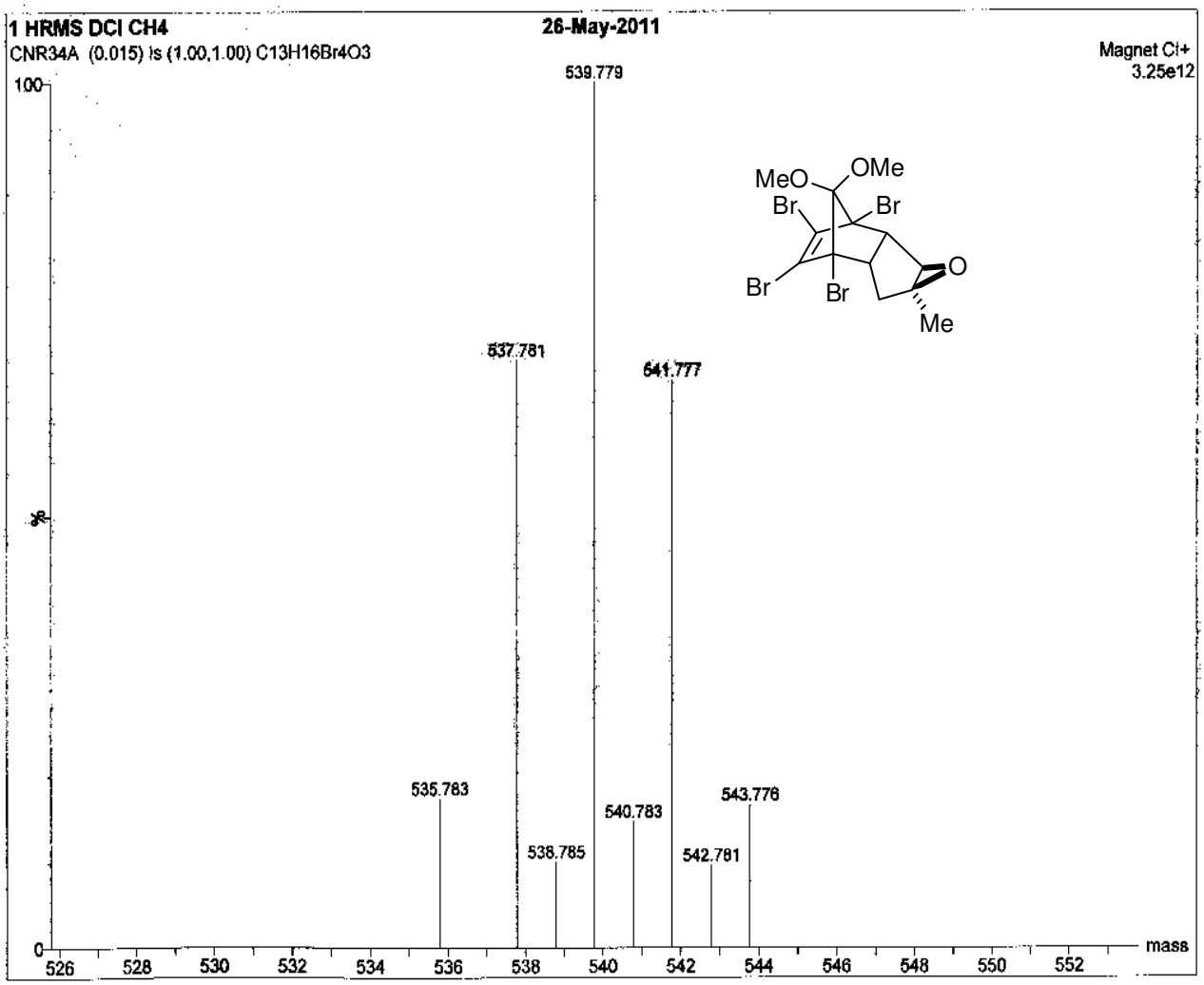
HRMS (DCI) of Compound 7



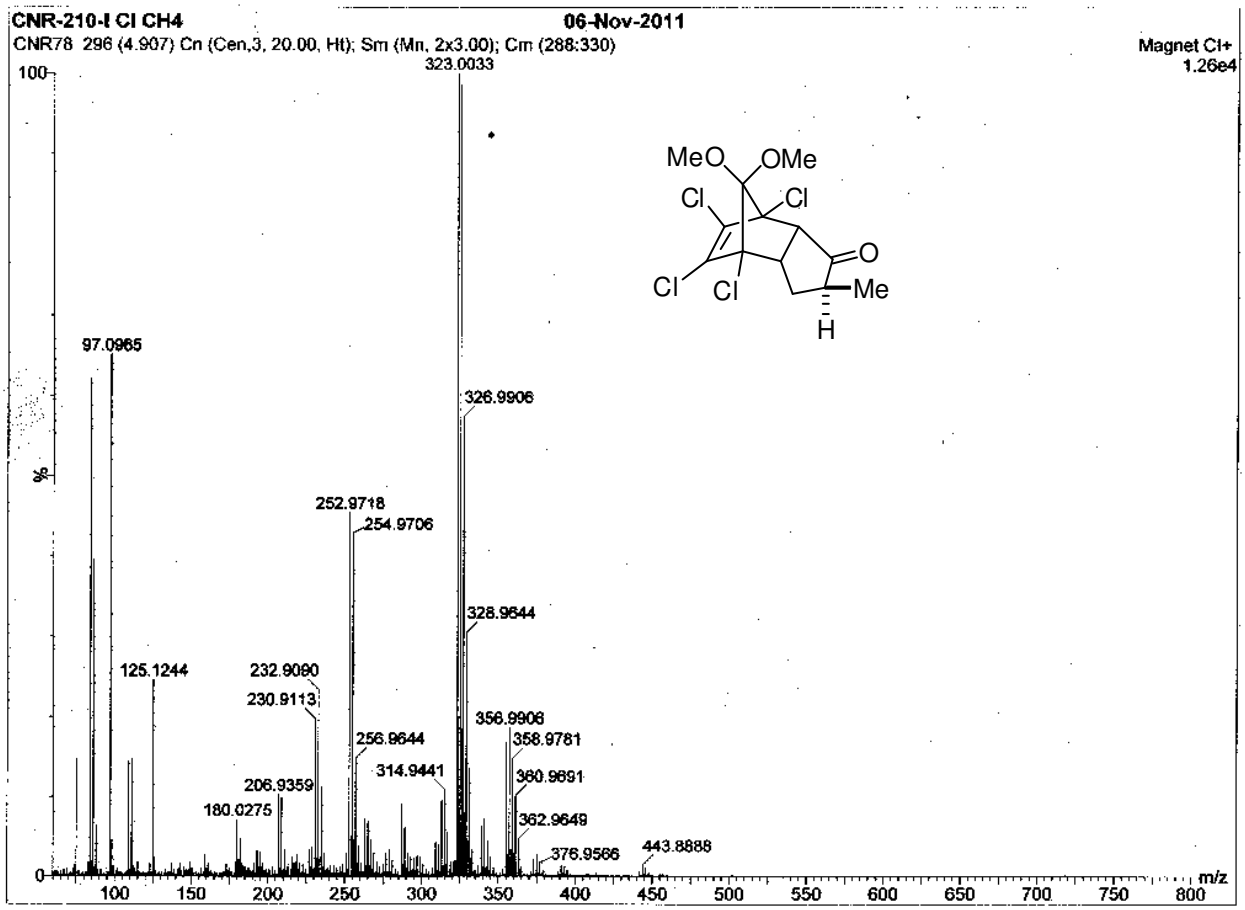
HRMS (DCI) of Compound 8



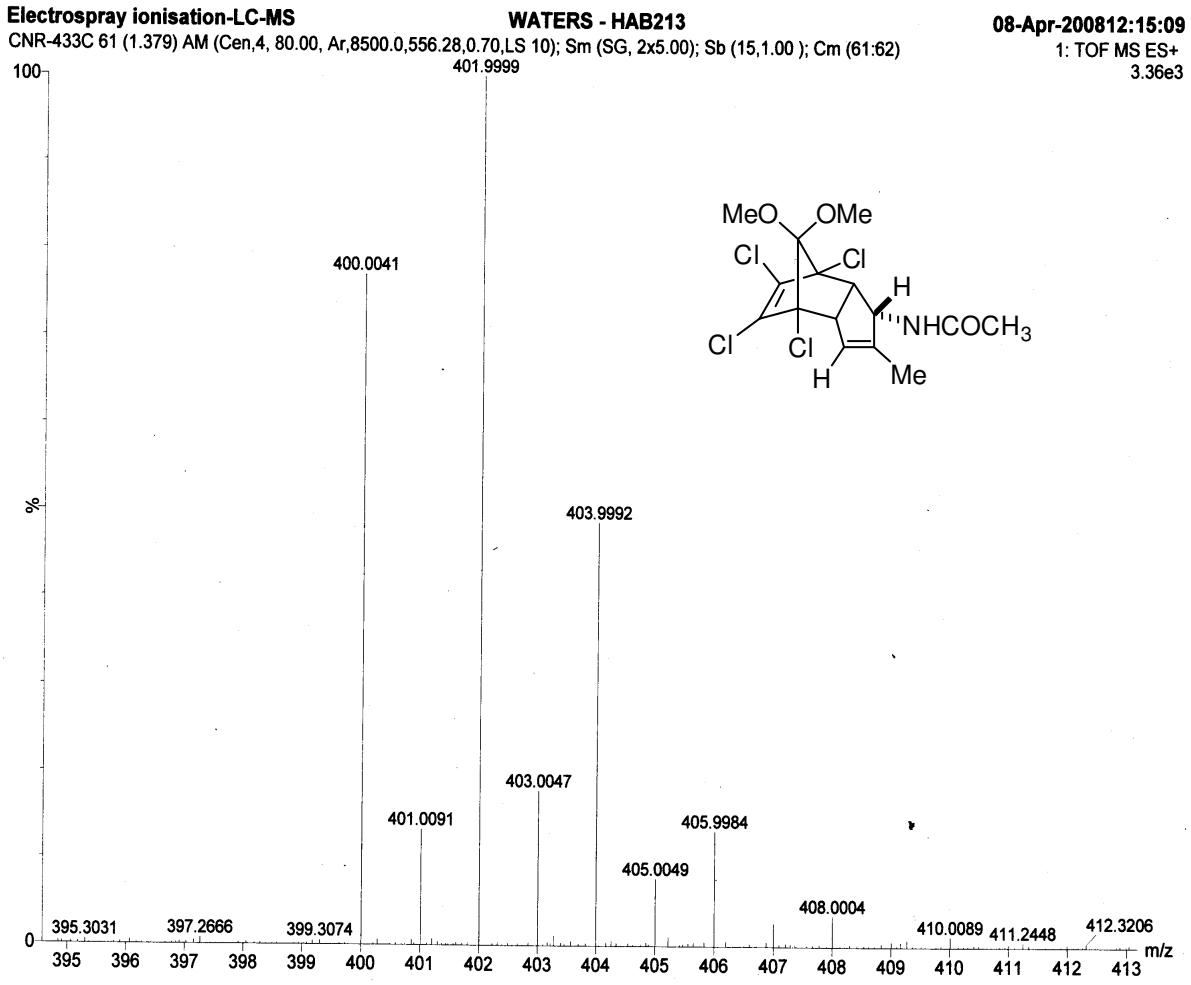
HRMS (DCI) of Compound 10



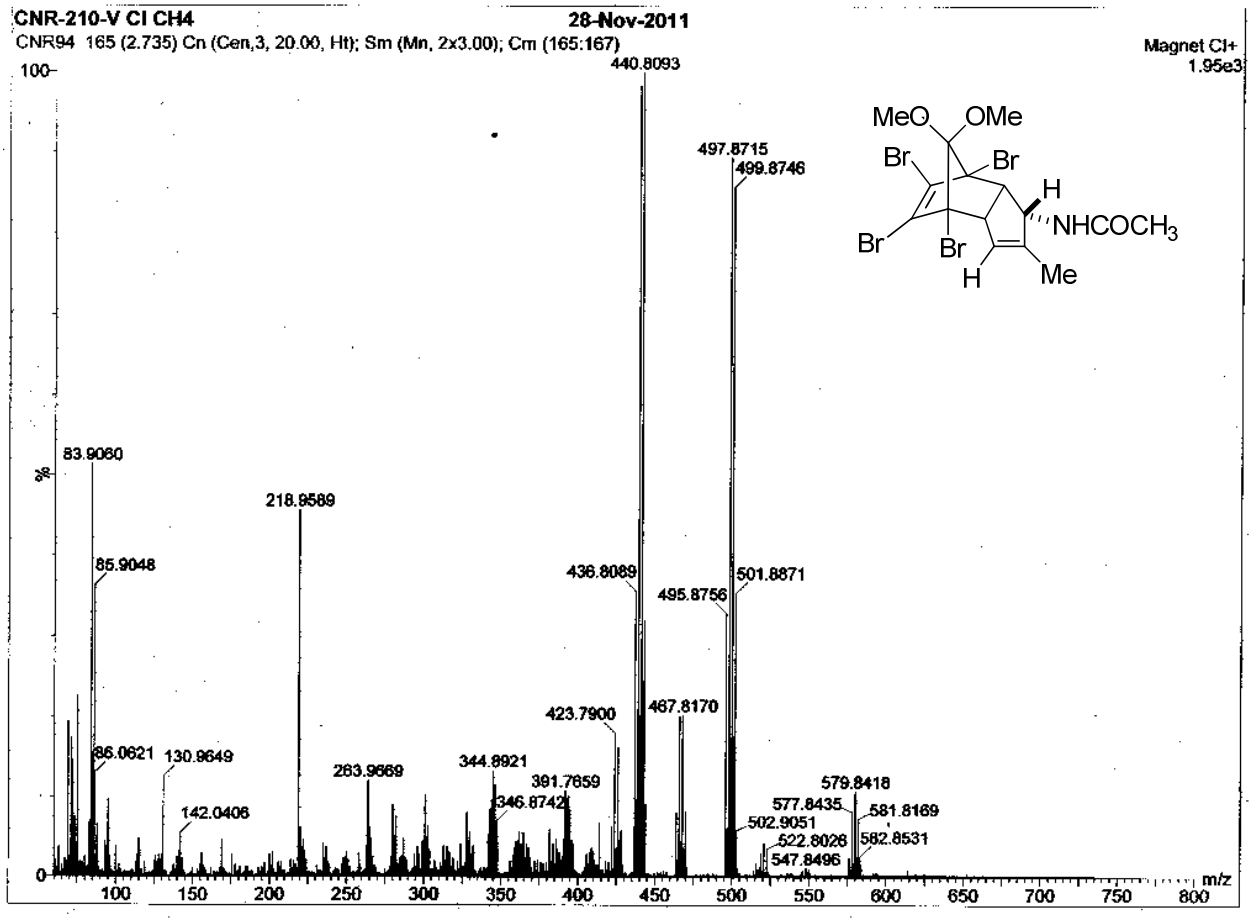
HRMS (DCI) of Compound 11



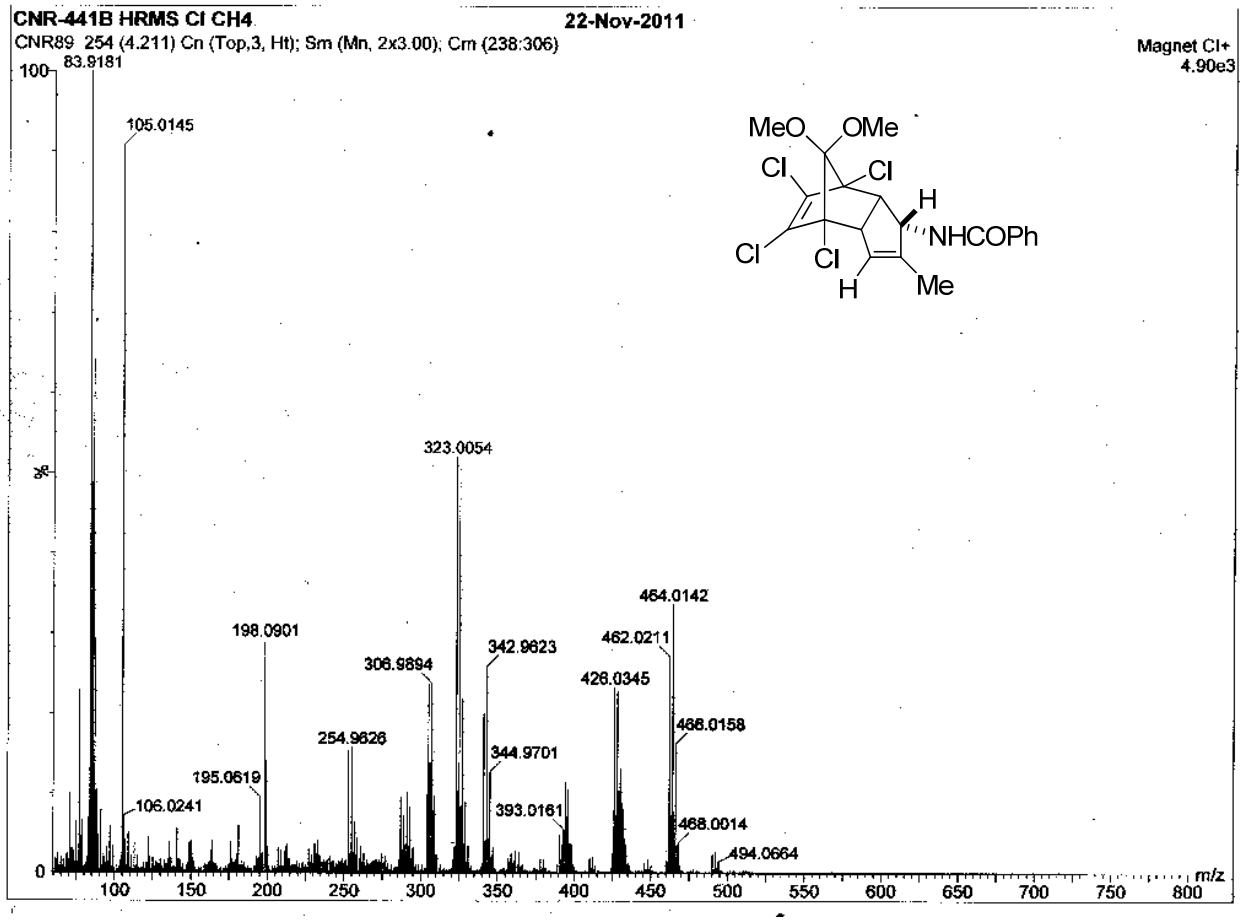
HRMS (ESI) of Compound 13



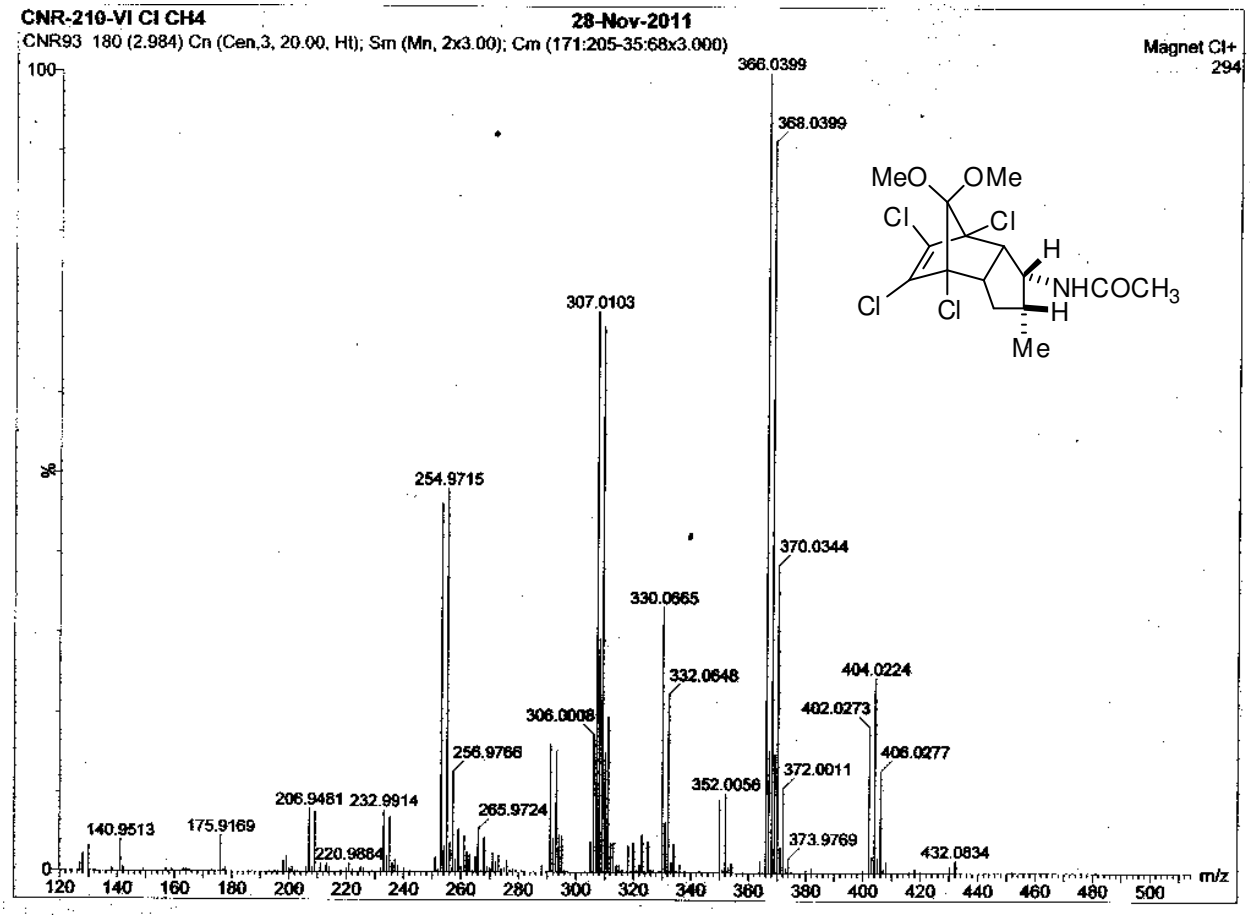
HRMS (DCI) of Compound 14



HRMS (DCI) of Compound 15



HRMS (DCI) of Compound 17



X-ray Ortep diagram of 5