

## CHAPTER IV

### CONCLUSION

Through the liquid/liquid system, benzoxazines are shown to be ionophores and form complexes with various metal ions. It is found that the ion extraction percentage to the system is strongly influenced by the solvent employed. The ionophores establish the guest responsive structure for all types of metal ions though little ion selectivity has been observed. In addition, curing percentage also affect the ion extraction. Oligomers exhibit slightly higher ion affinity than the monomer. Concentration of ions increased non-linearly with increasing ionophore concentration. Compared with other well known host compounds for ion extraction, benzoxazines showed much higher ion affinity than all other hosts.