

Supporting Information

Synthesis and C-H Functionalization Chemistry of Thiazole-semicoronenediimides (TsCDIs) and – coronenediimides (TCDIs).

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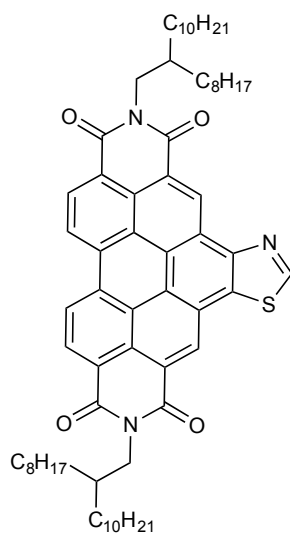
¹H NMR of Thienothiophene-TsCDI **14**

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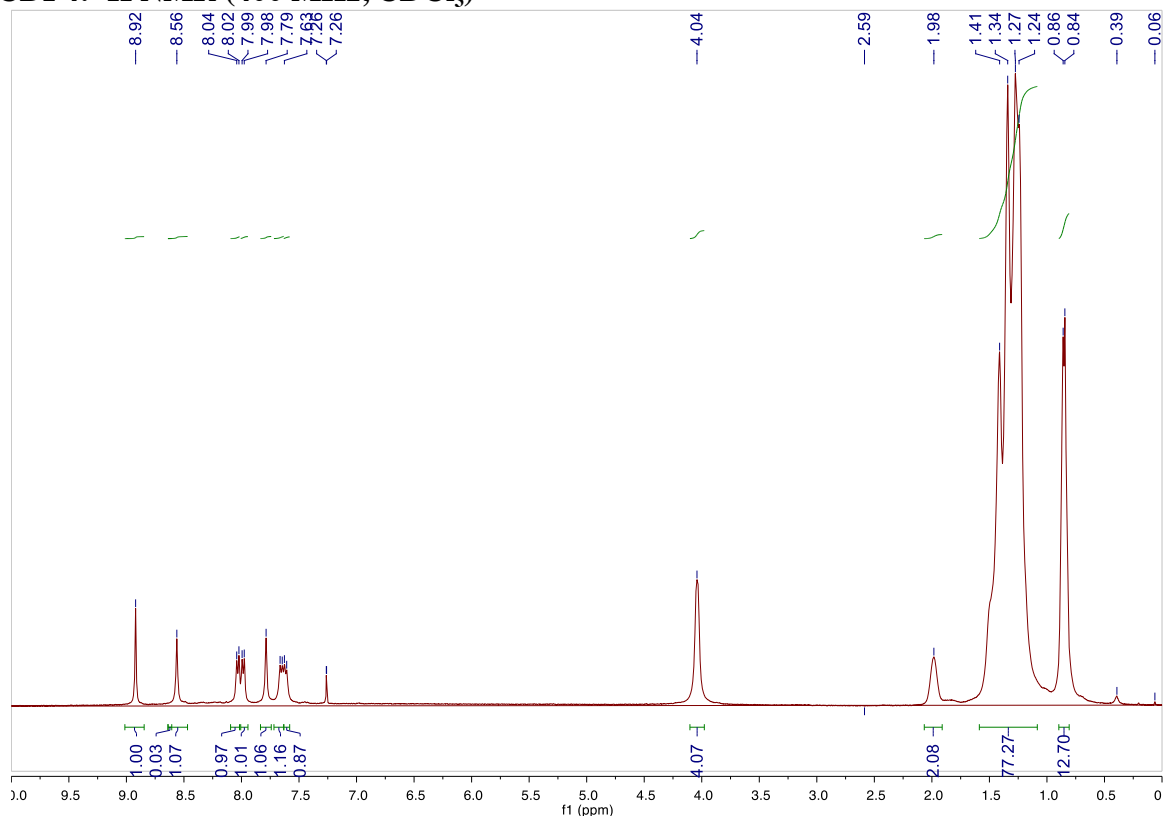
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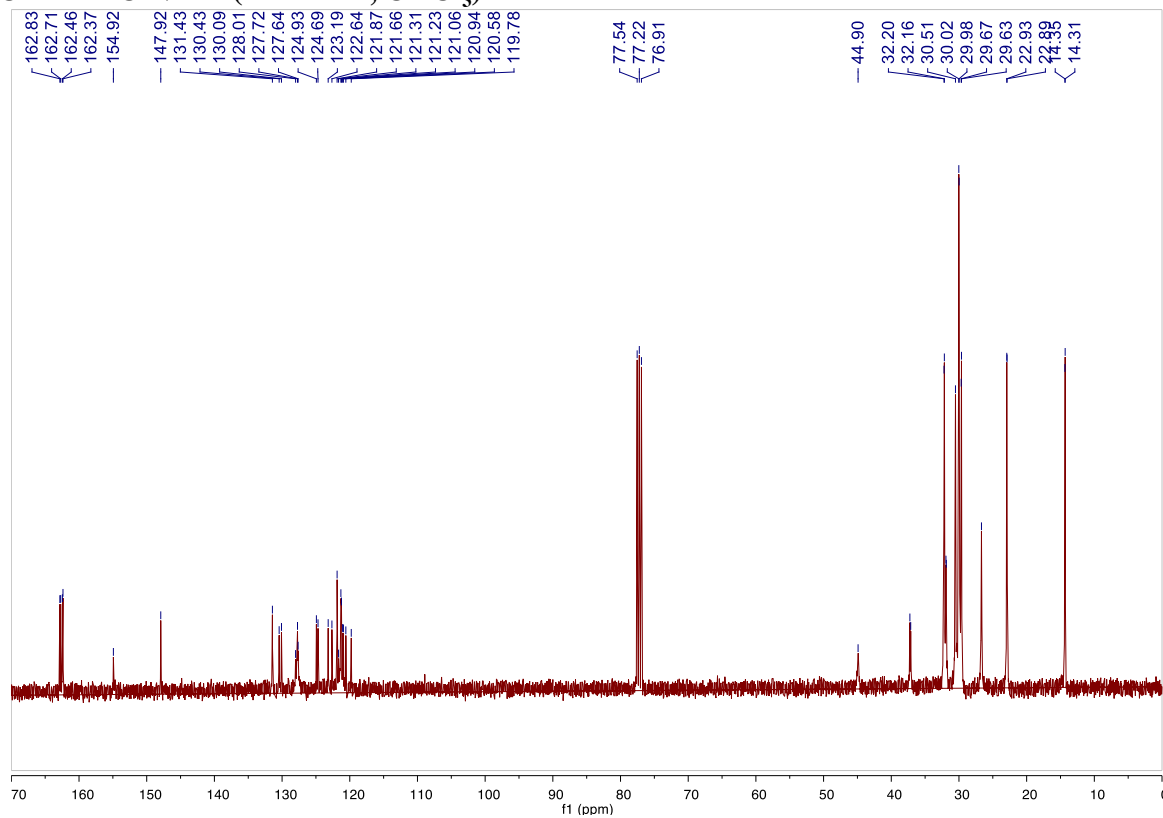
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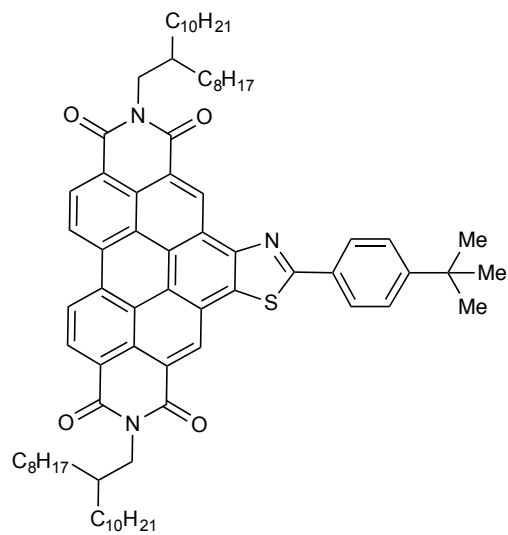


TsCDI 4: ^1H NMR (400 MHz, CDCl_3)

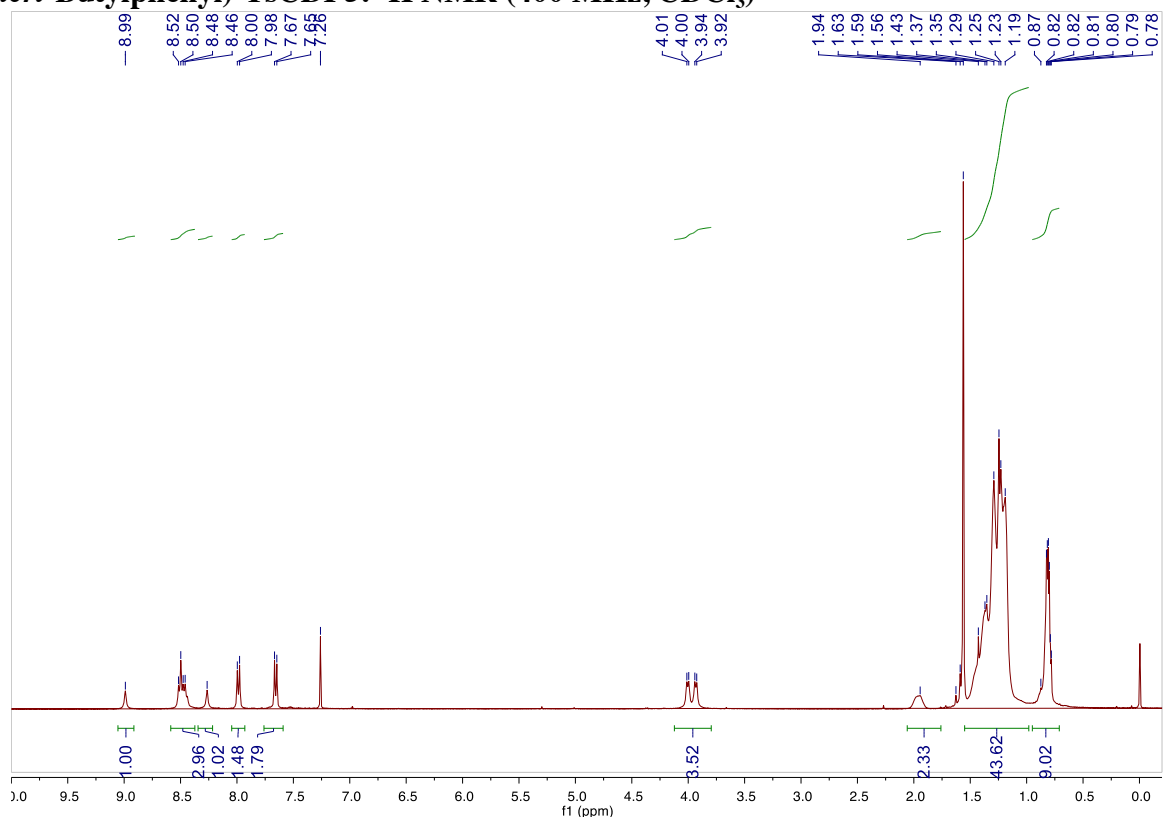


TsCDI 4: ^{13}C NMR (100 MHz, CDCl_3)

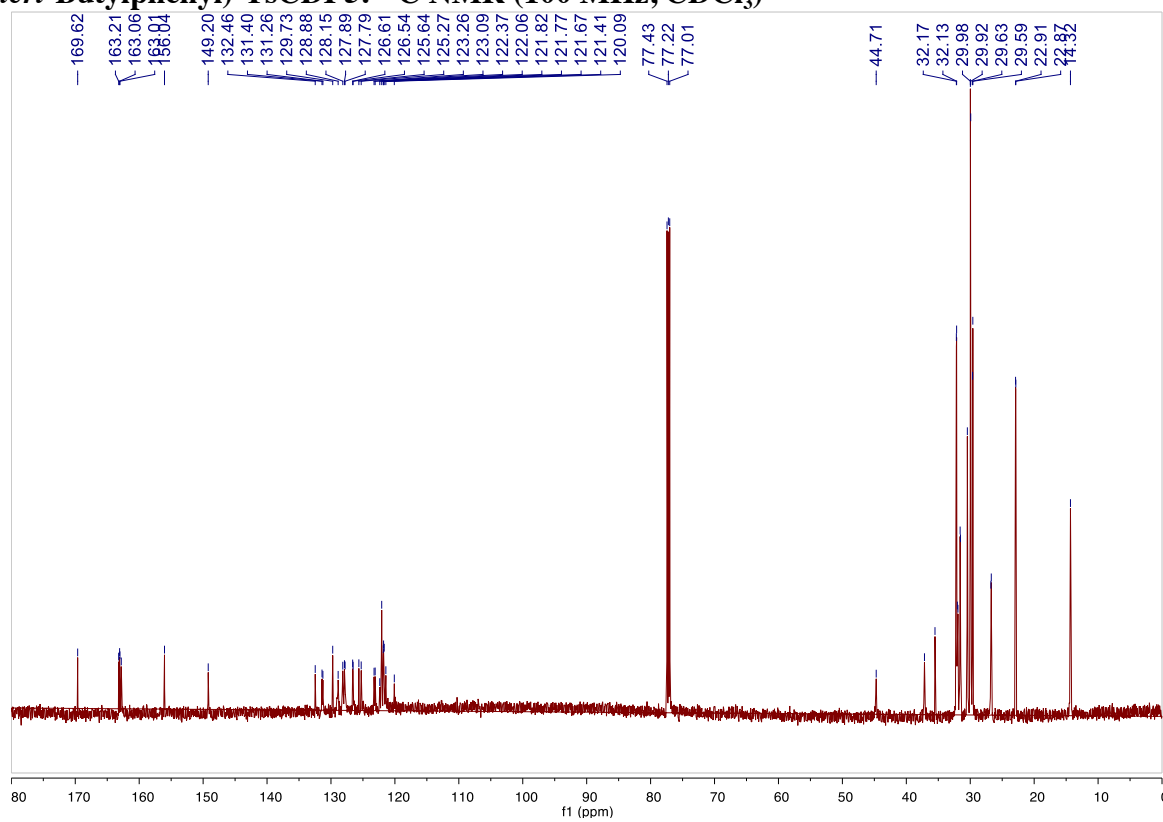


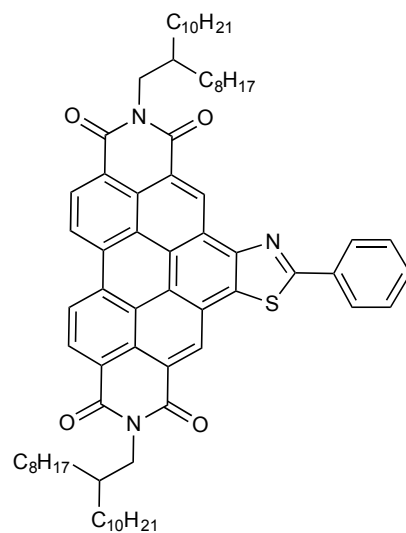


(4-*tert*-Butylphenyl)-TsCDI 5: ^1H NMR (400 MHz, CDCl_3)

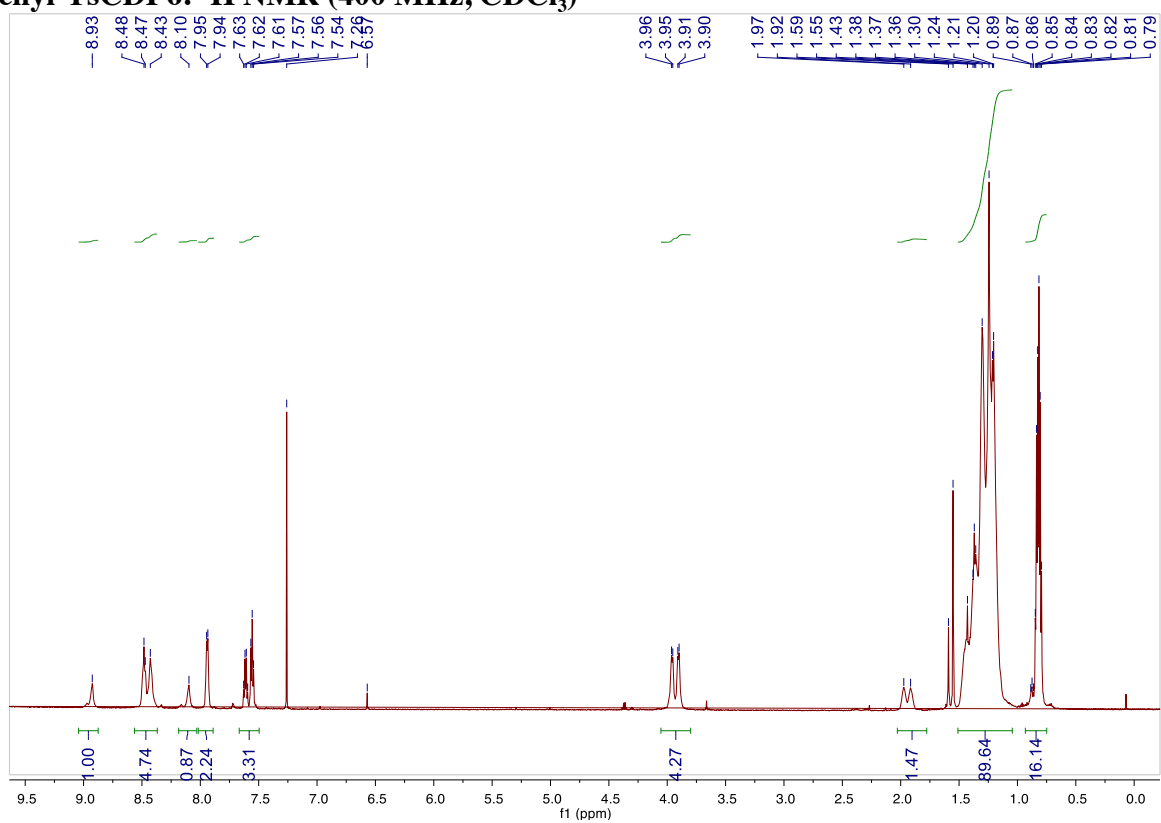


(4-*tert*-Butylphenyl)-TsCDI 5: ^{13}C NMR (100 MHz, CDCl_3)

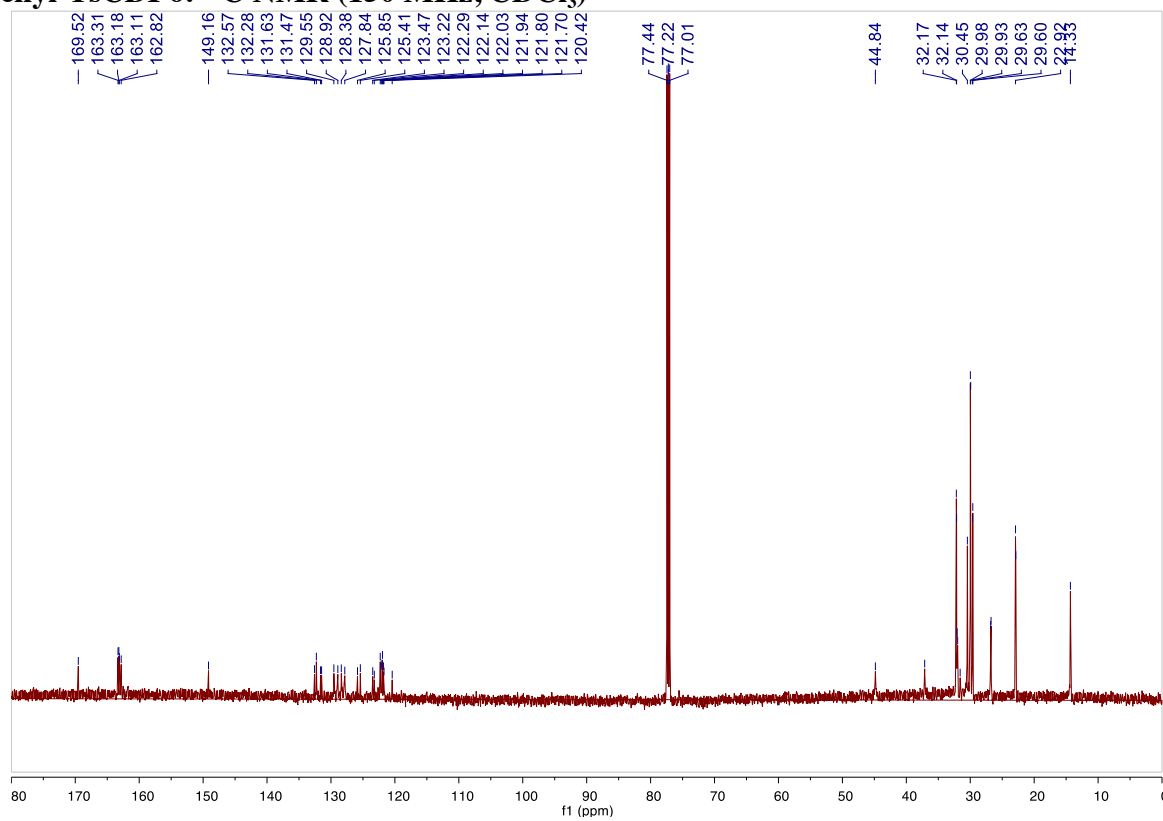


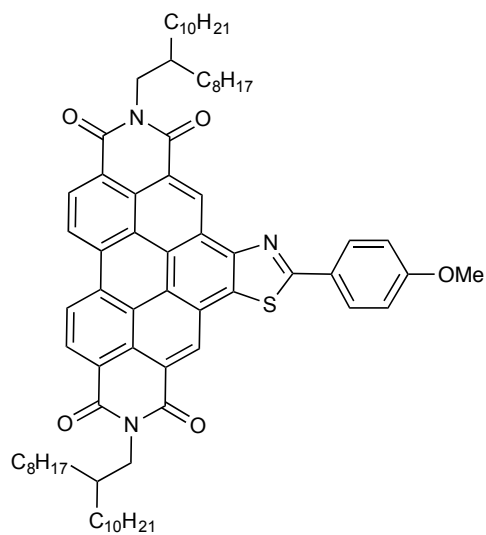


Phenyl-TsCDI 6: ^1H NMR (400 MHz, CDCl_3)

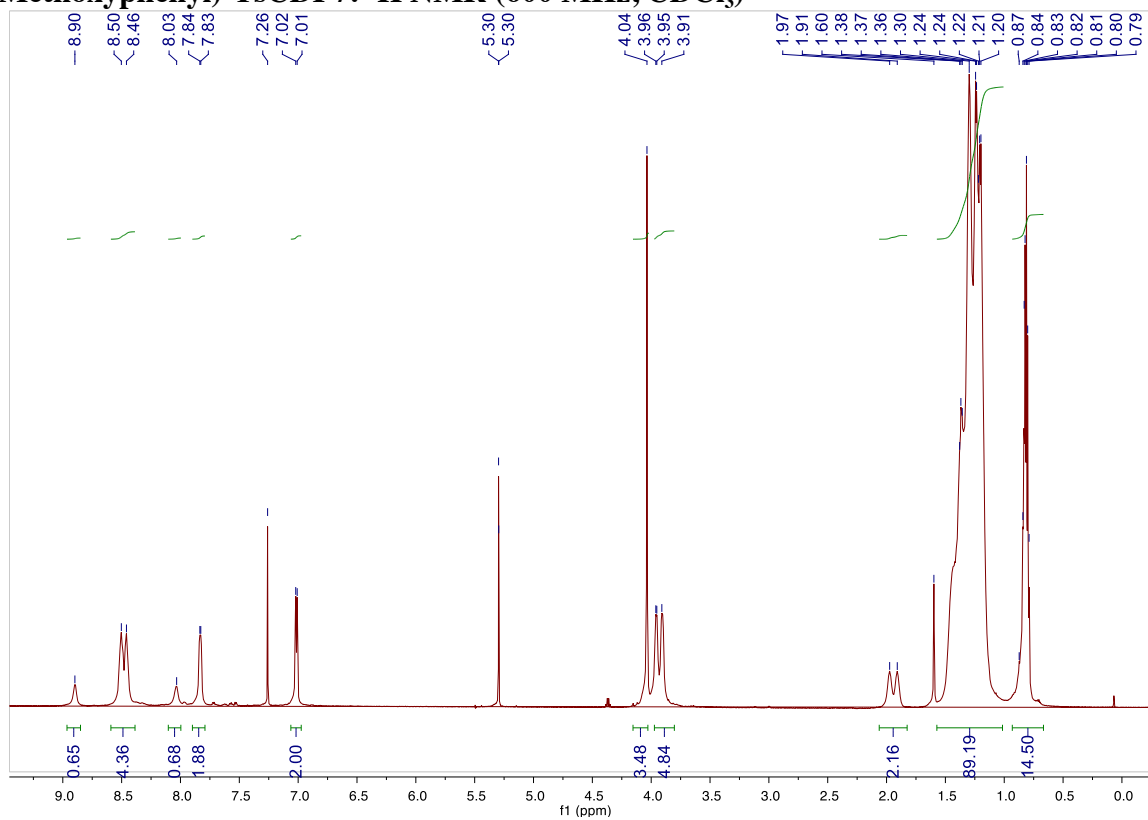


Phenyl-TsCDI 6: ^{13}C NMR (150 MHz, CDCl_3)

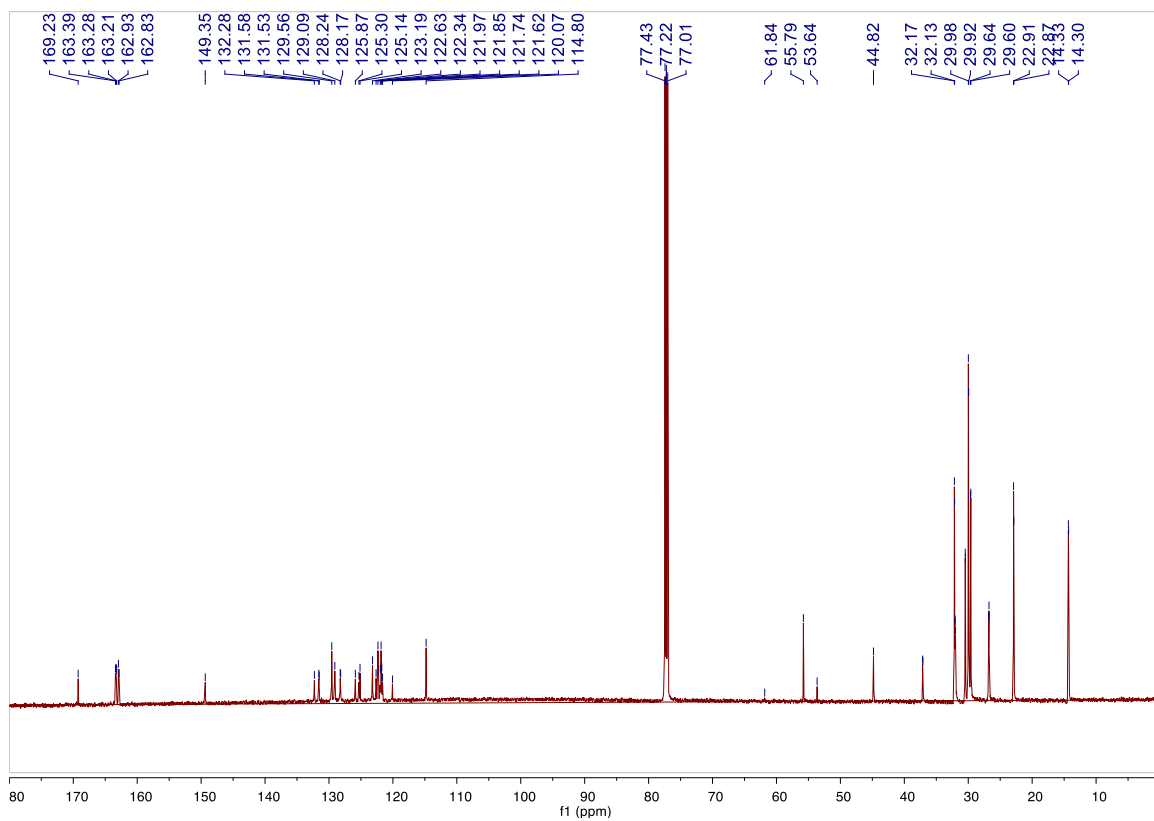


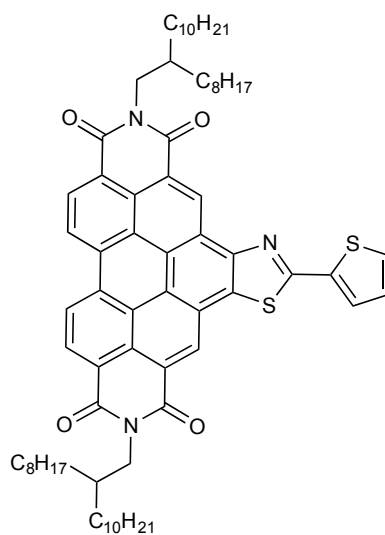


(4-Methoxyphenyl)-TsCDI 7: ^1H NMR (600 MHz, CDCl_3)

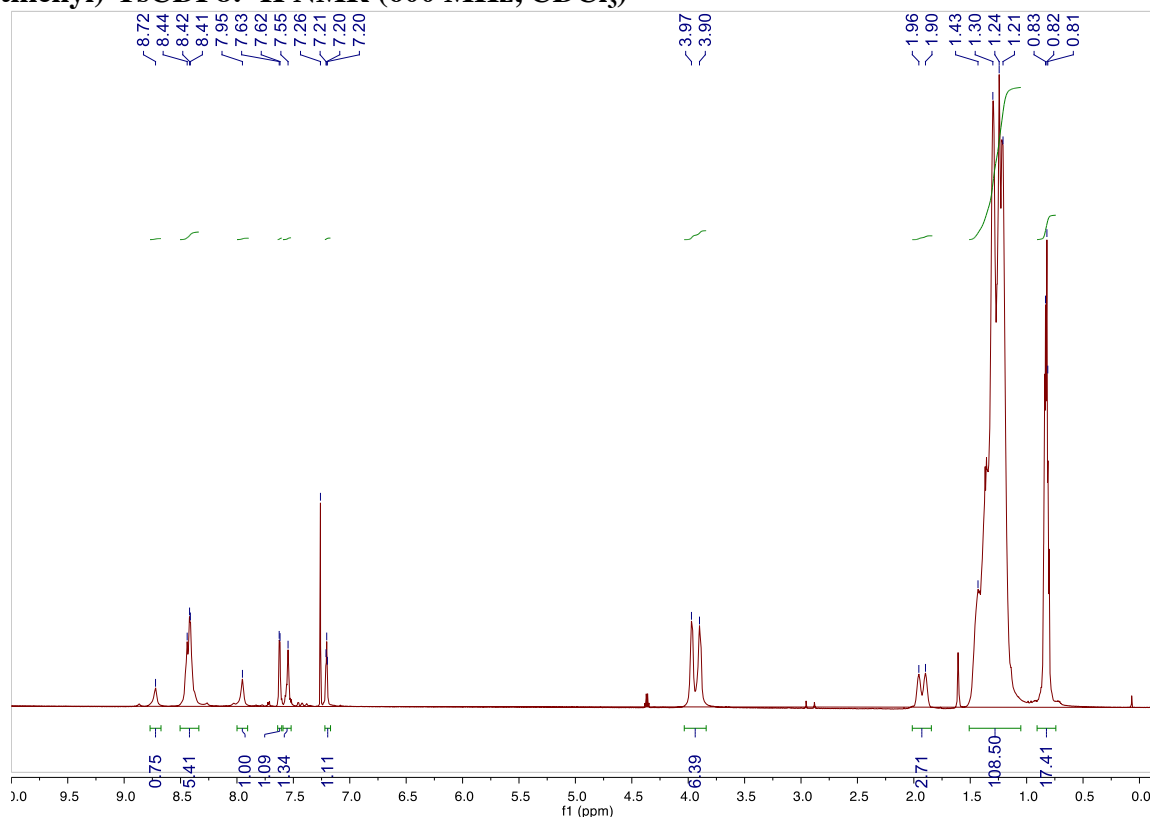


(4-Methoxyphenyl)-TsCDI 7: ^{13}C NMR (150 MHz, CDCl_3)

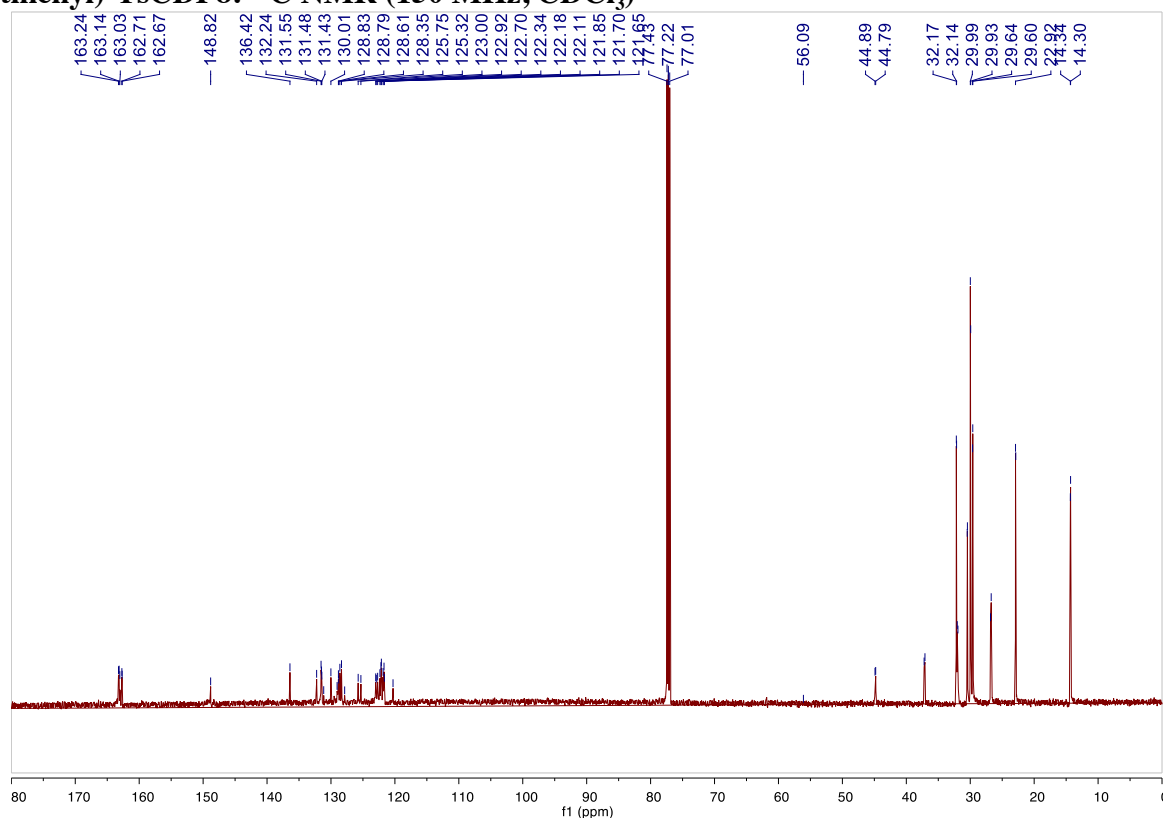


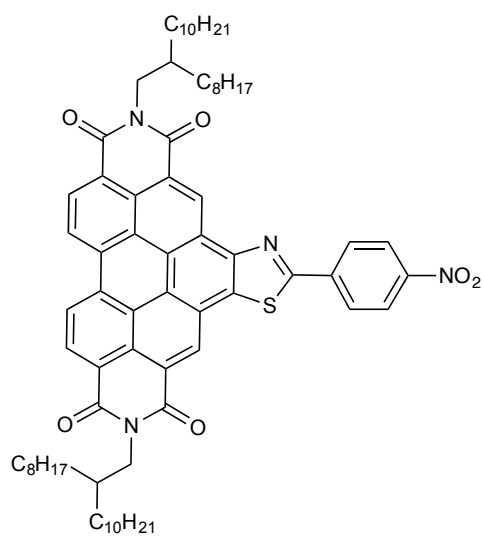


(2-thienyl)-TsCDI 8: ^1H NMR (600 MHz, CDCl_3)

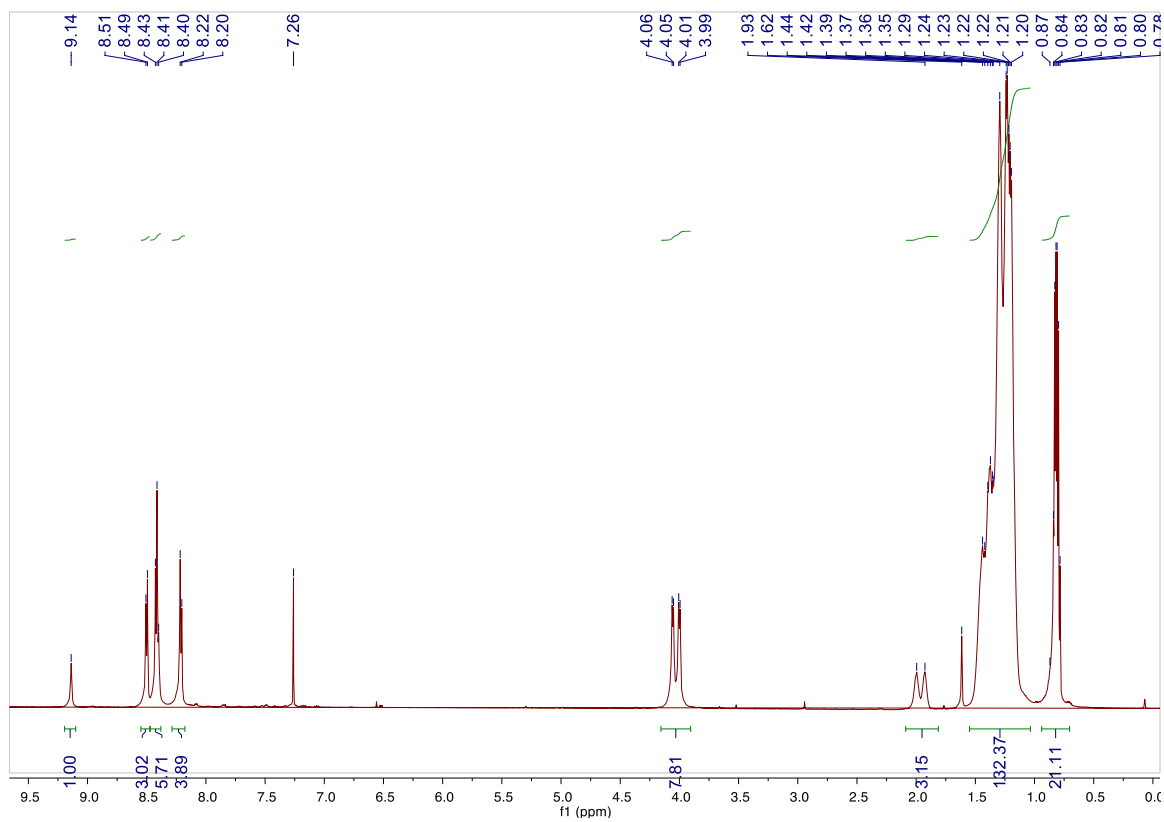


(2-thienyl)-TsCDI 8: ^{13}C NMR (150 MHz, CDCl_3)

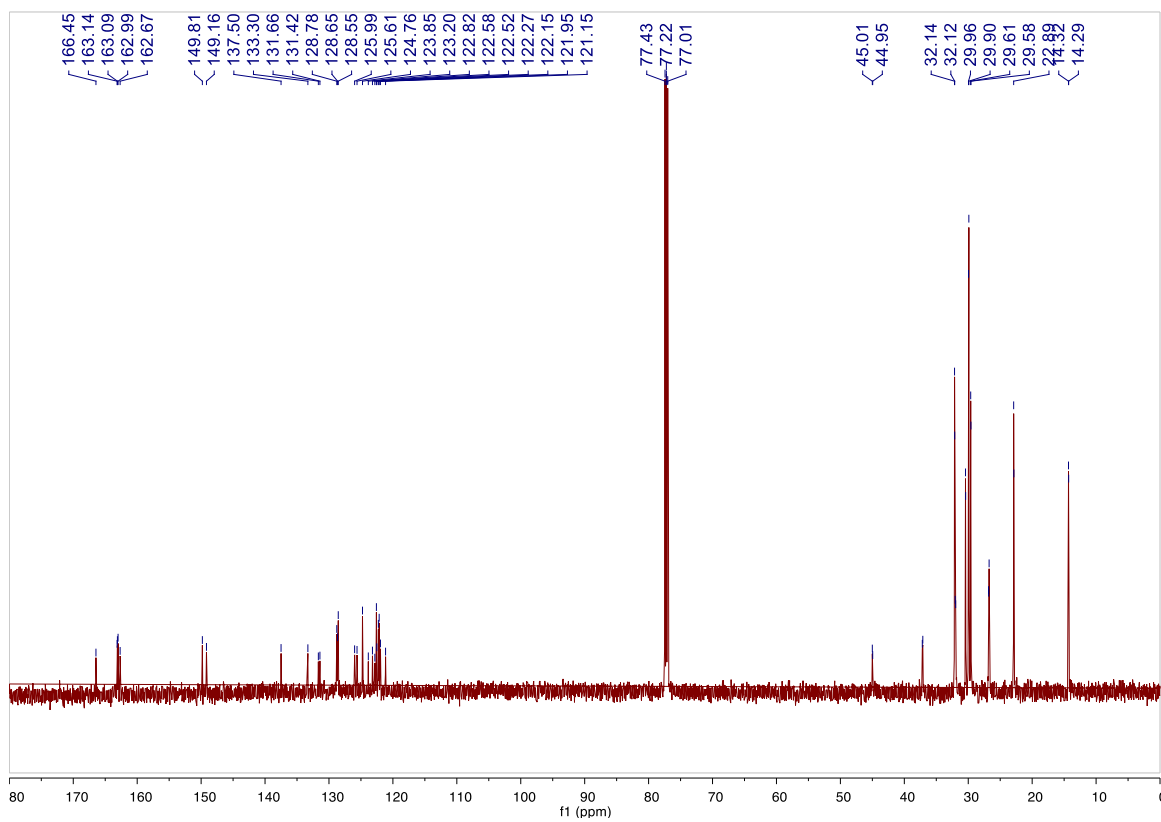


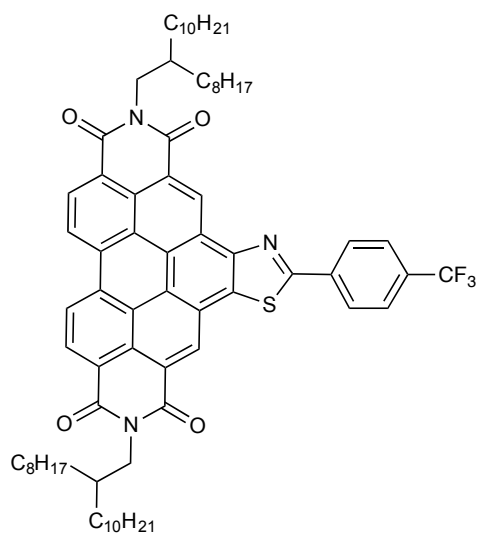


(4-Nitrophenyl)-TsCDI 9: 1H NMR (600 MHz, $CDCl_3$)

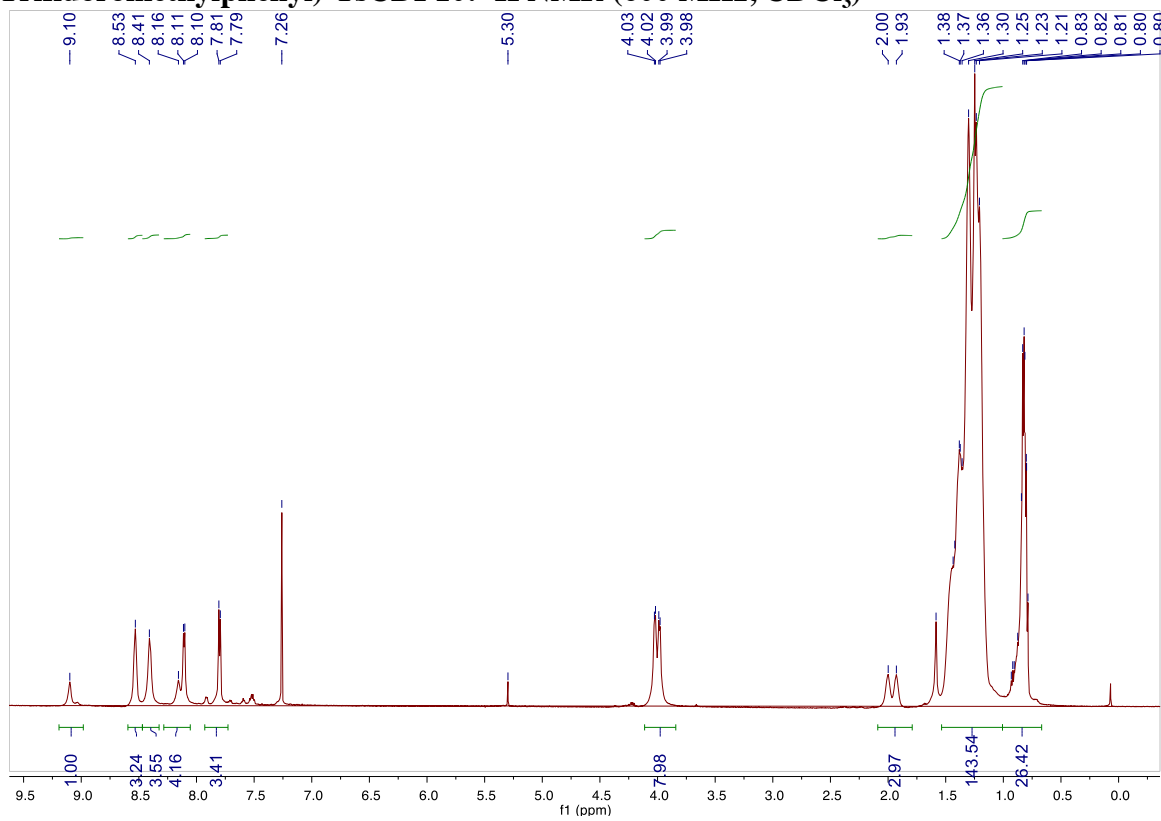


(4-Nitrophenyl)-TsCDI 9: ^{13}C NMR (150 MHz, CDCl_3)

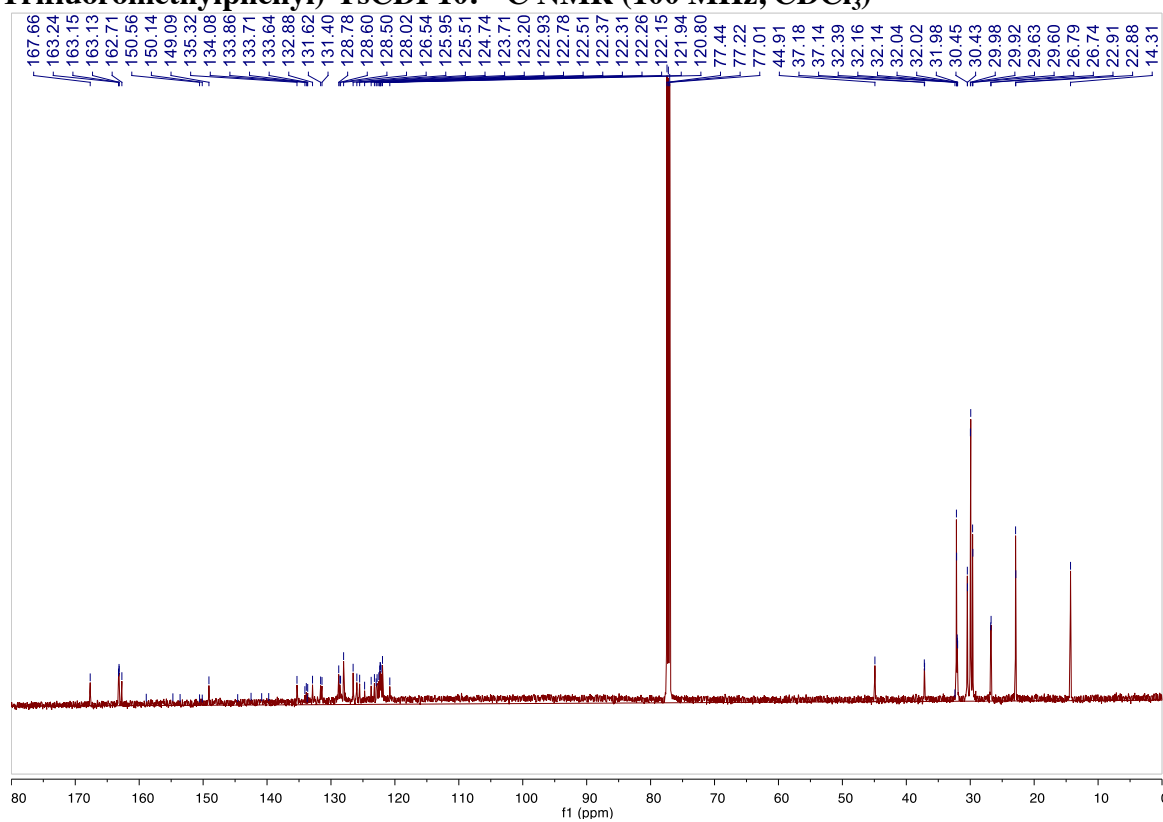




(4-Trifluoromethylphenyl)-TsCDI 10: ^1H NMR (600 MHz, CDCl_3)

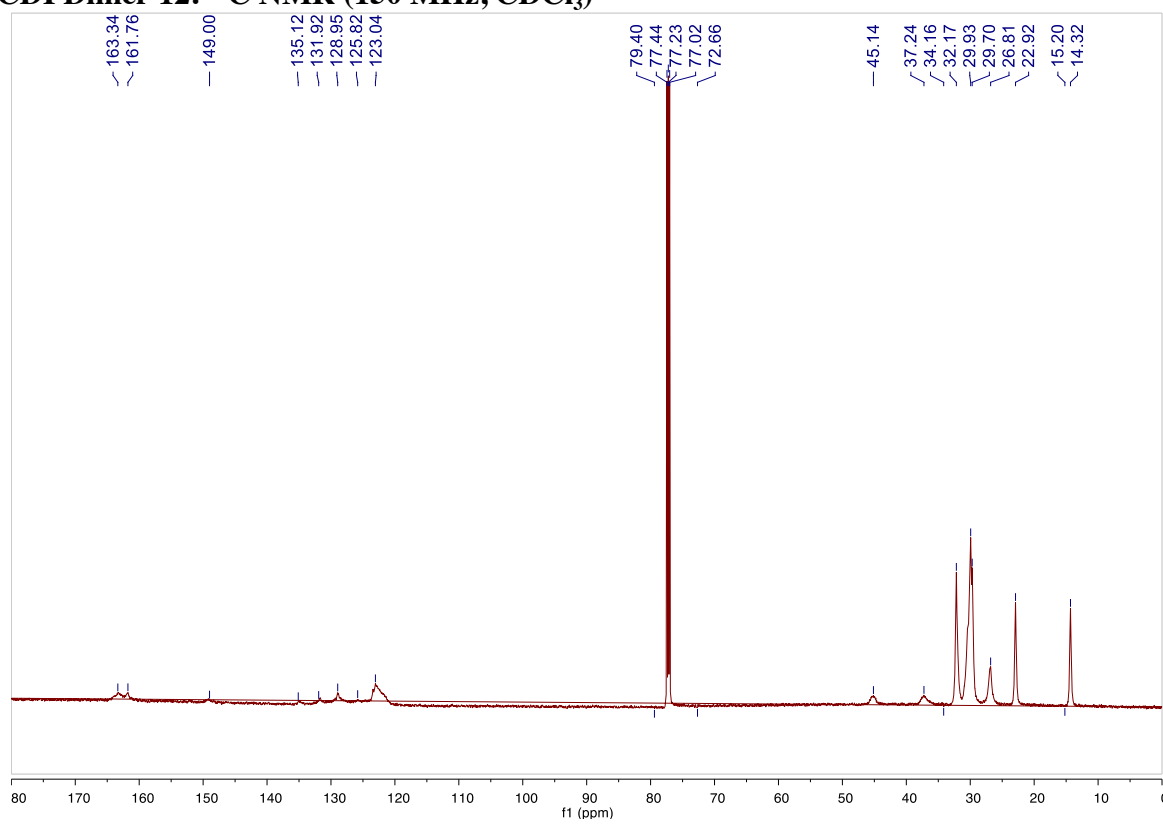


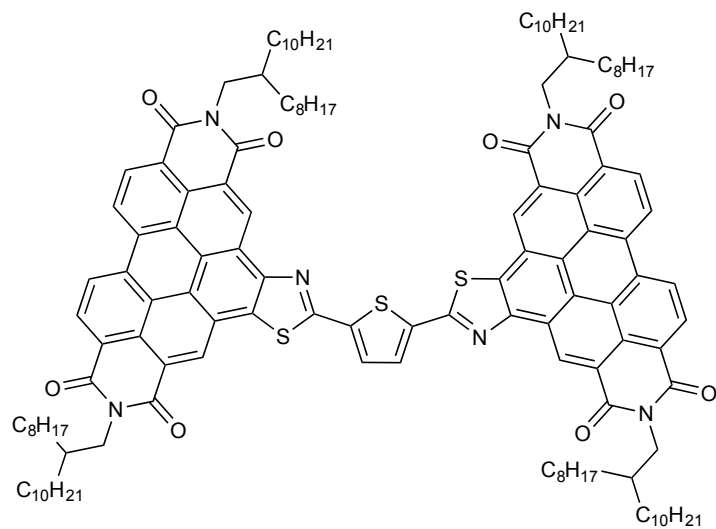
(4-Trifluoromethylphenyl)-TsCDI 10: ^{13}C NMR (100 MHz, CDCl_3)



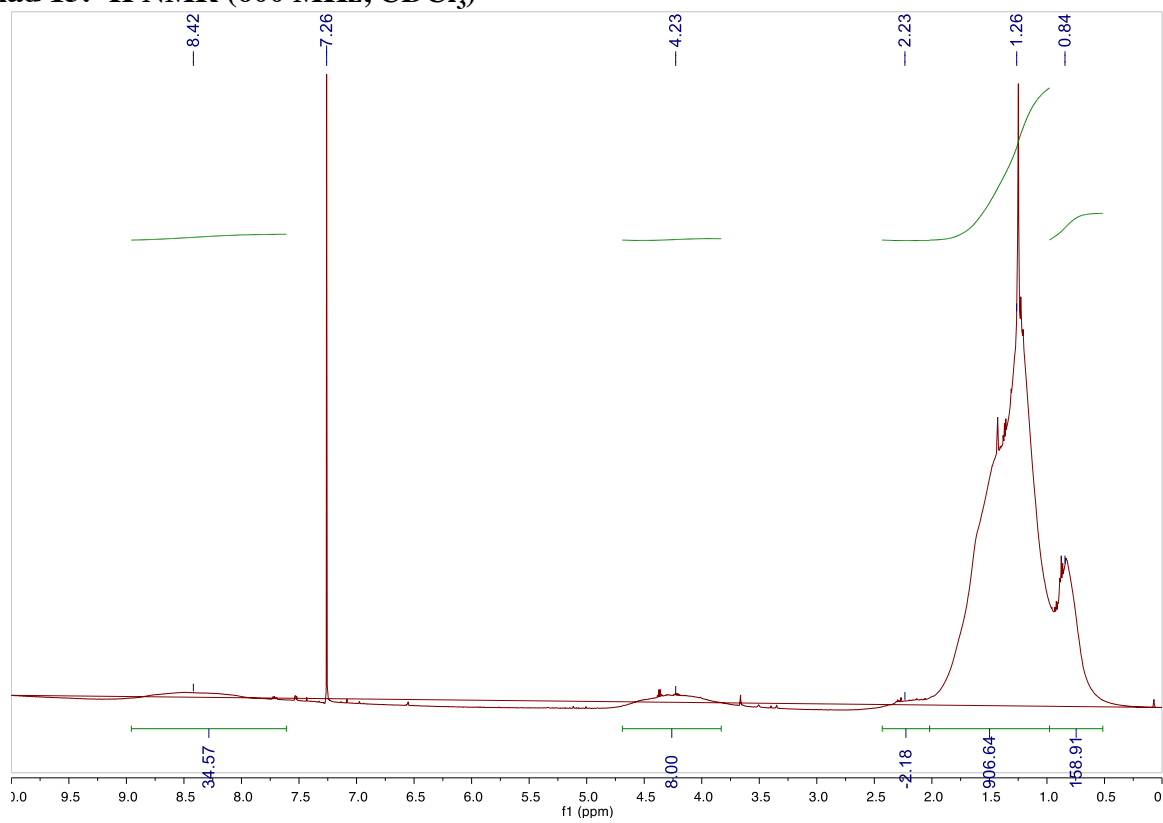


TsCDI Dimer 12: ^{13}C NMR (150 MHz, CDCl_3)

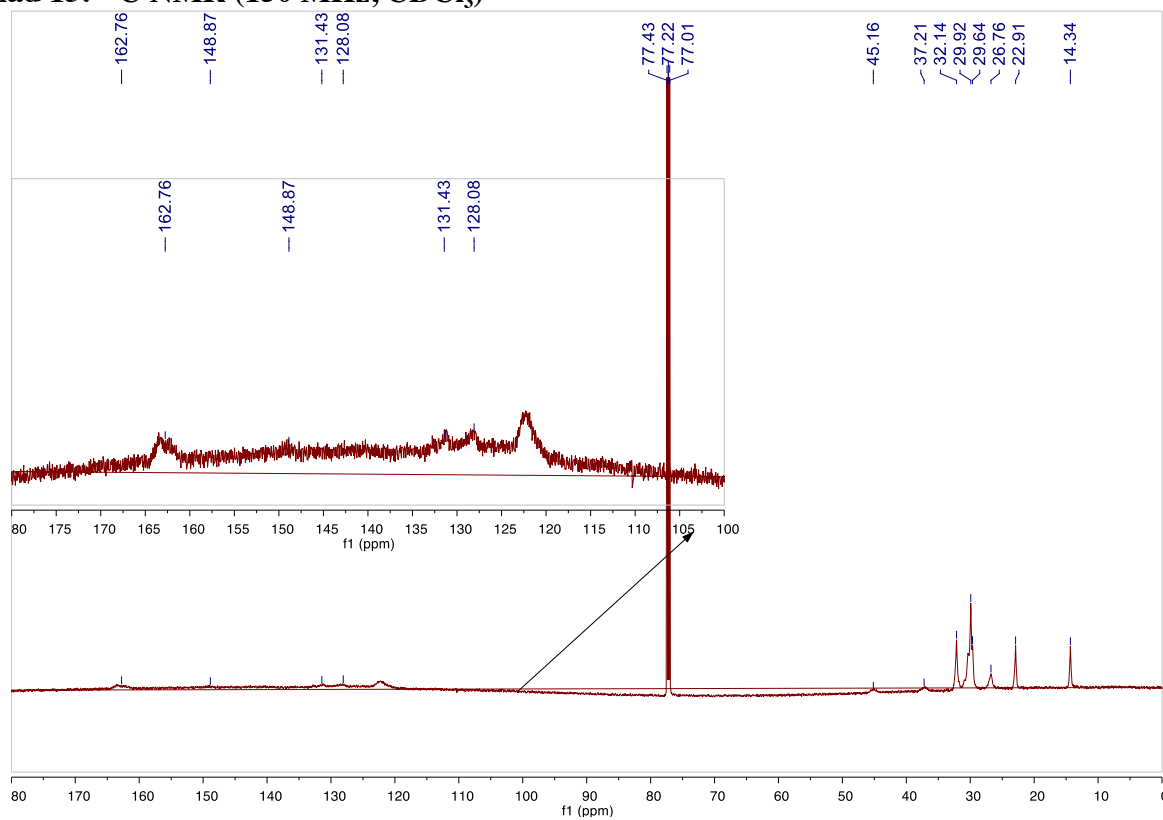


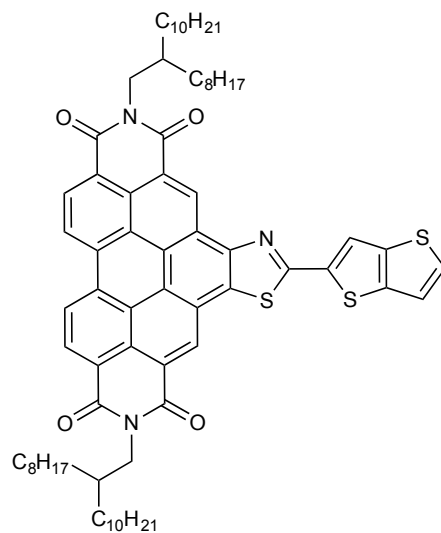


Triad 13: ^1H NMR (600 MHz, CDCl_3)

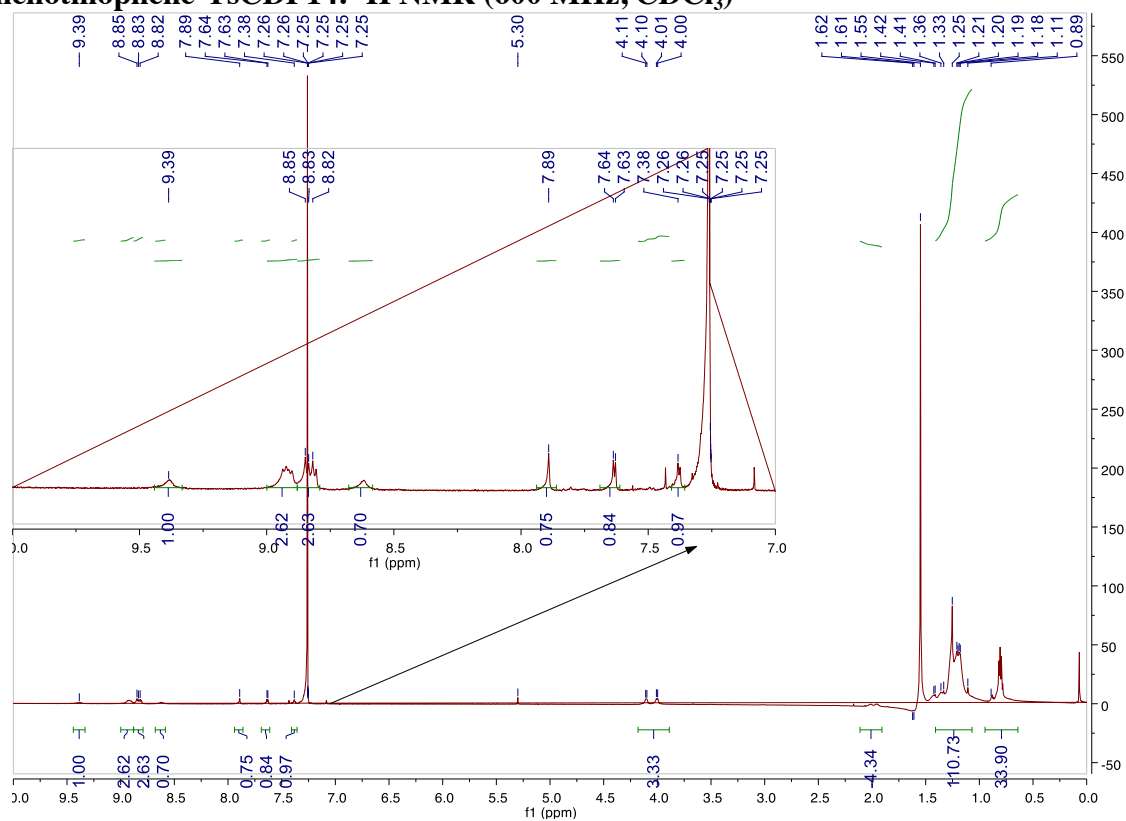


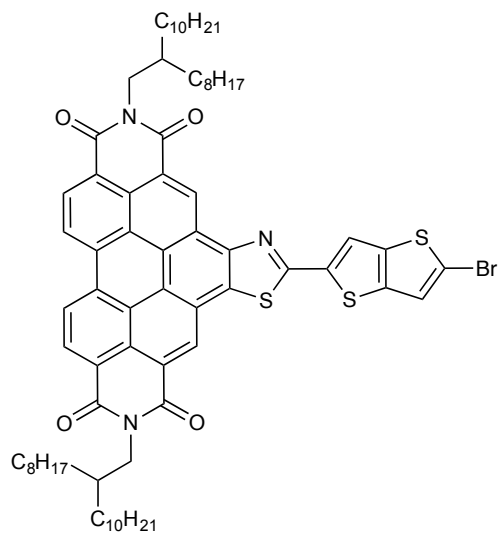
Triad 13: ^{13}C NMR (150 MHz, CDCl_3)



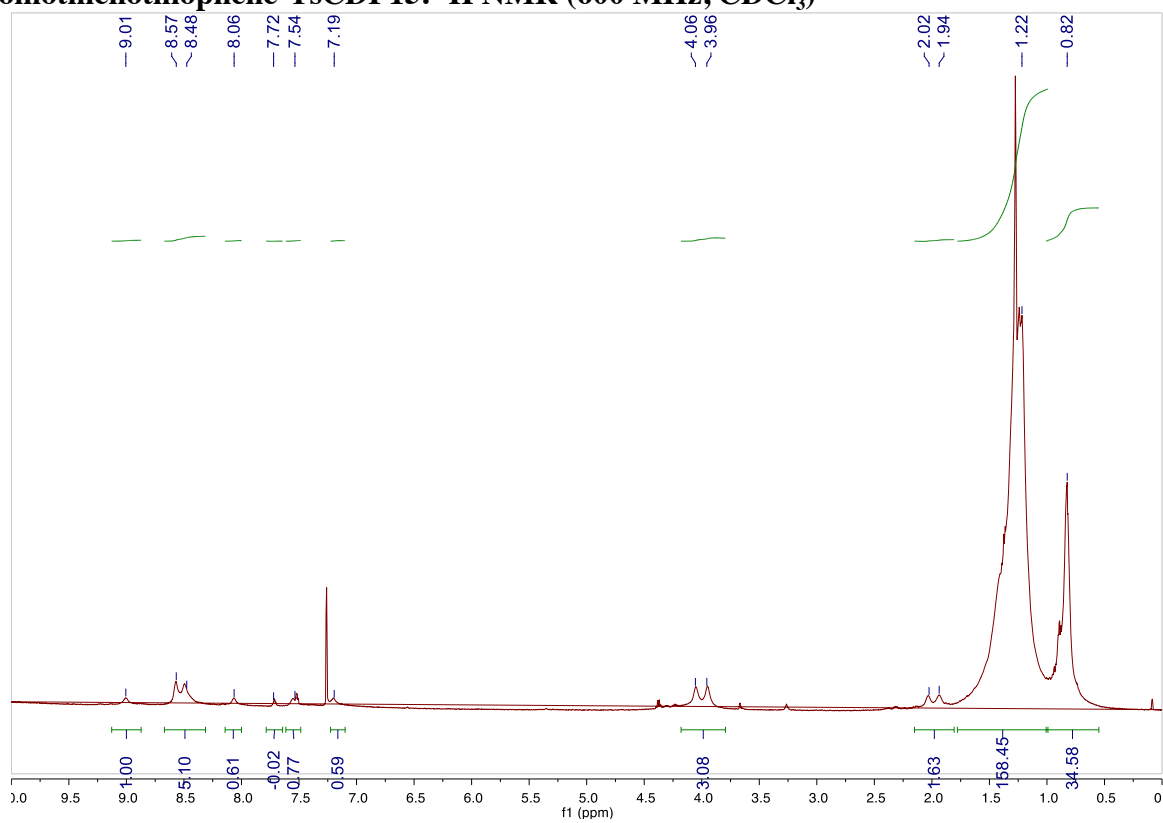


Thienothiophene-TsCDI 14: ^1H NMR (600 MHz, CDCl_3)

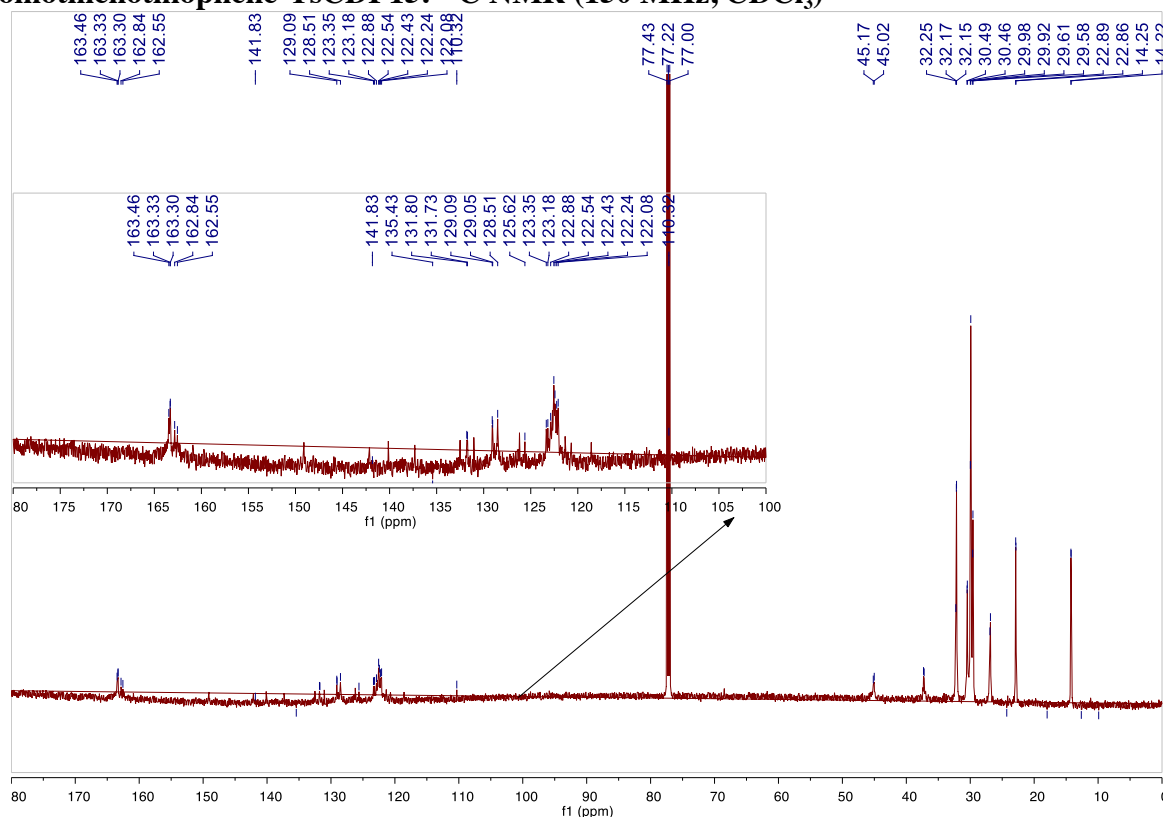


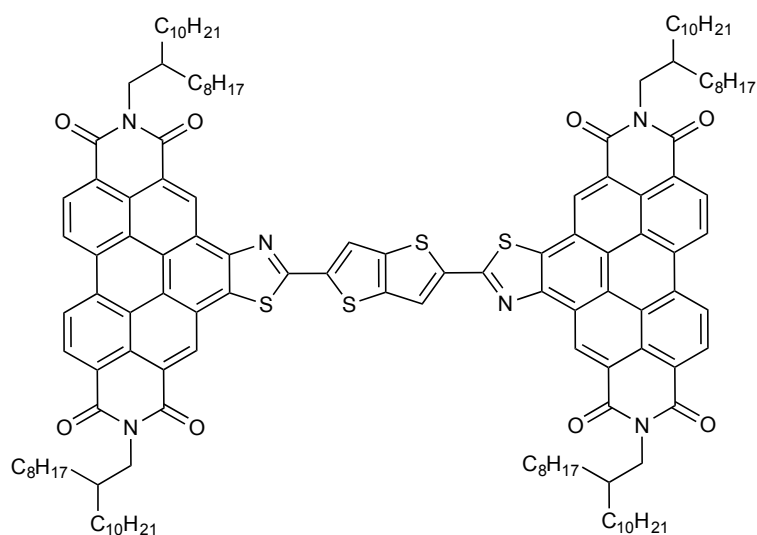


Bromothienothiophene-TsCDI 15: ¹H NMR (600 MHz, CDCl₃)

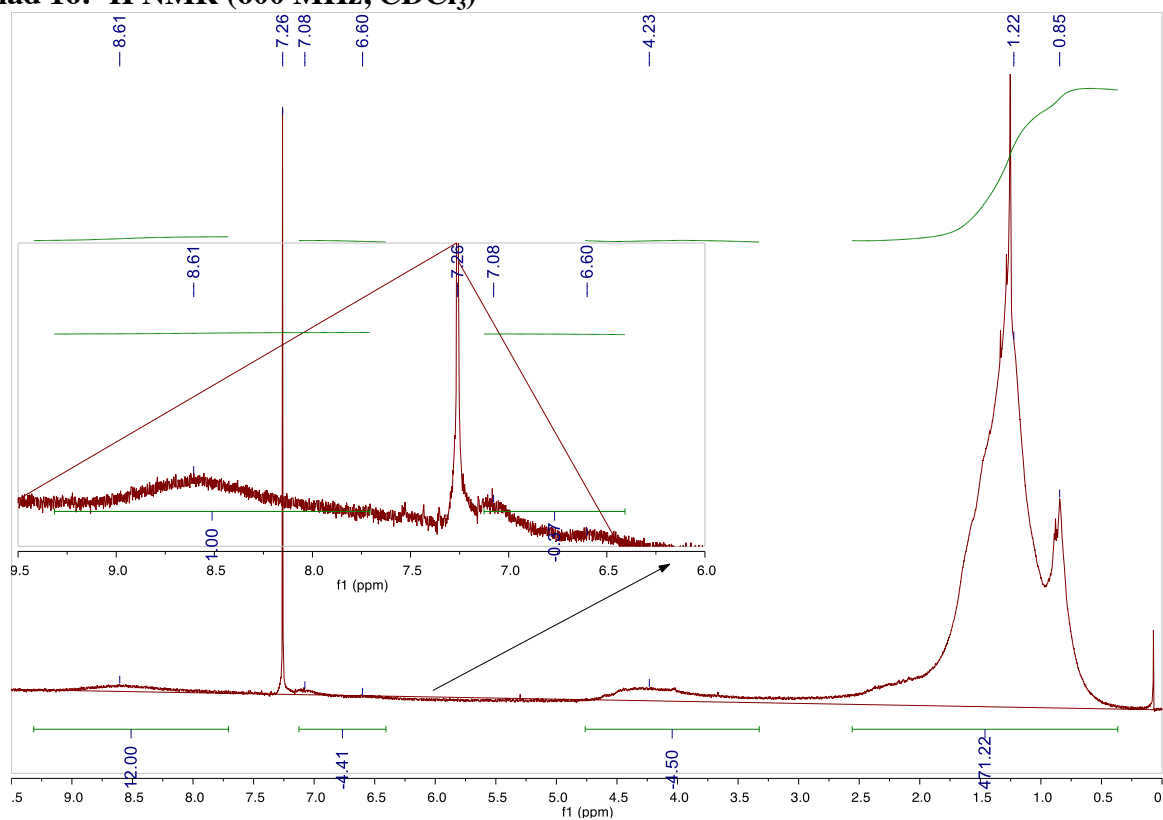


Bromothiophenethiophene-TsCDI 15: ^{13}C NMR (150 MHz, CDCl_3)

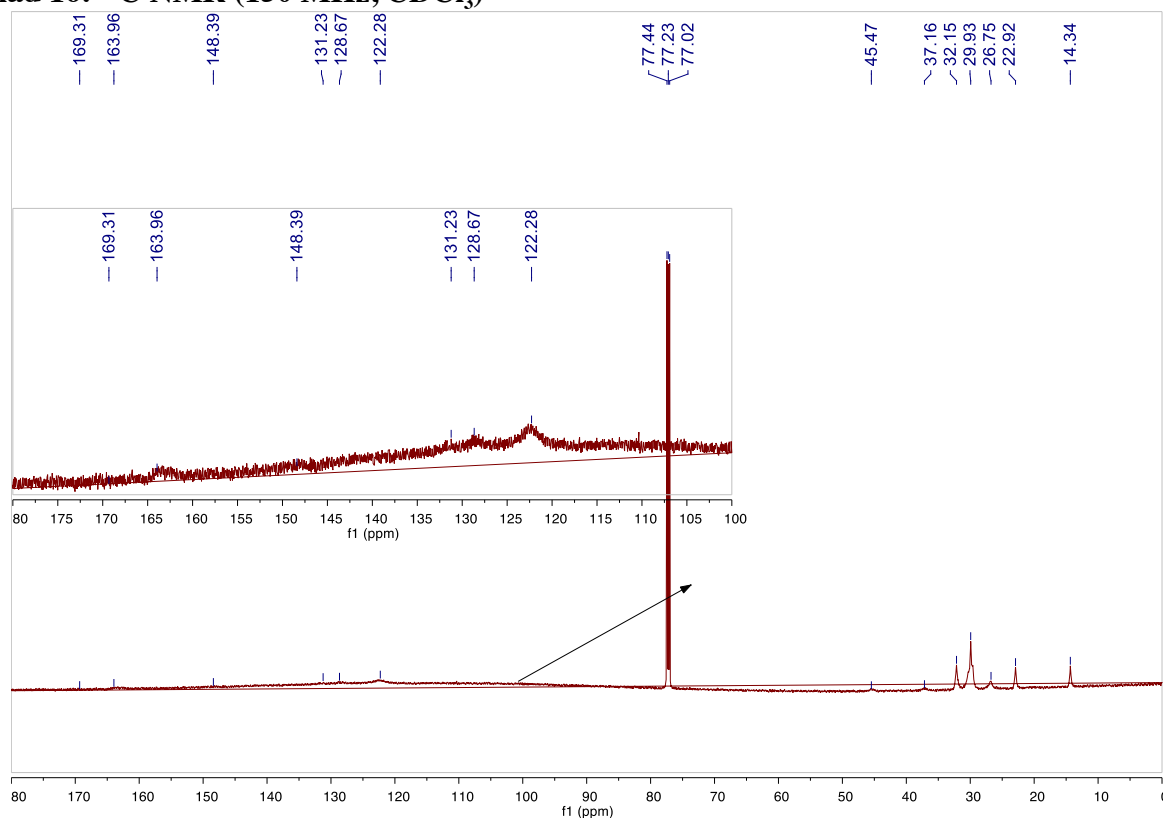


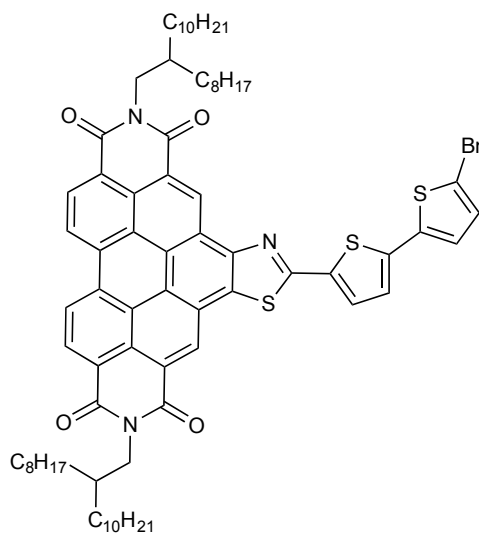


Triad 16: ¹H NMR (600 MHz, CDCl₃)

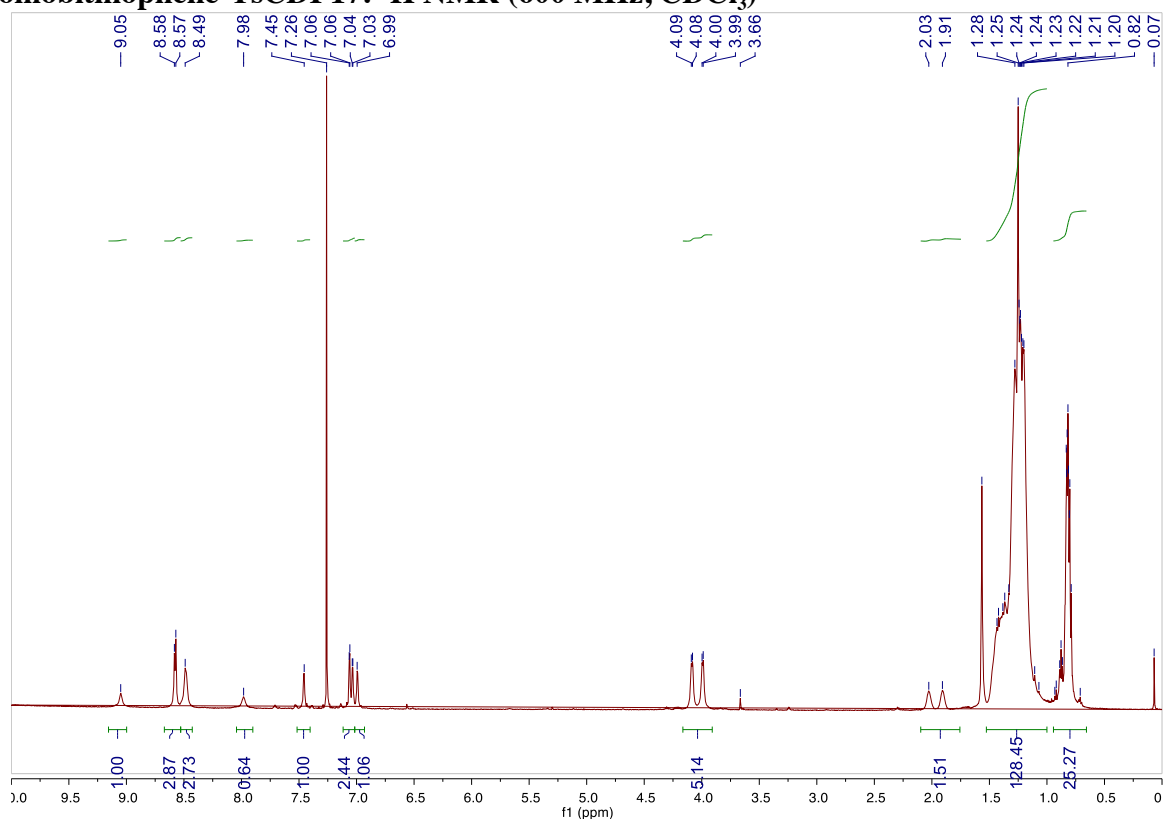


Triad 16: ^{13}C NMR (150 MHz, CDCl_3)

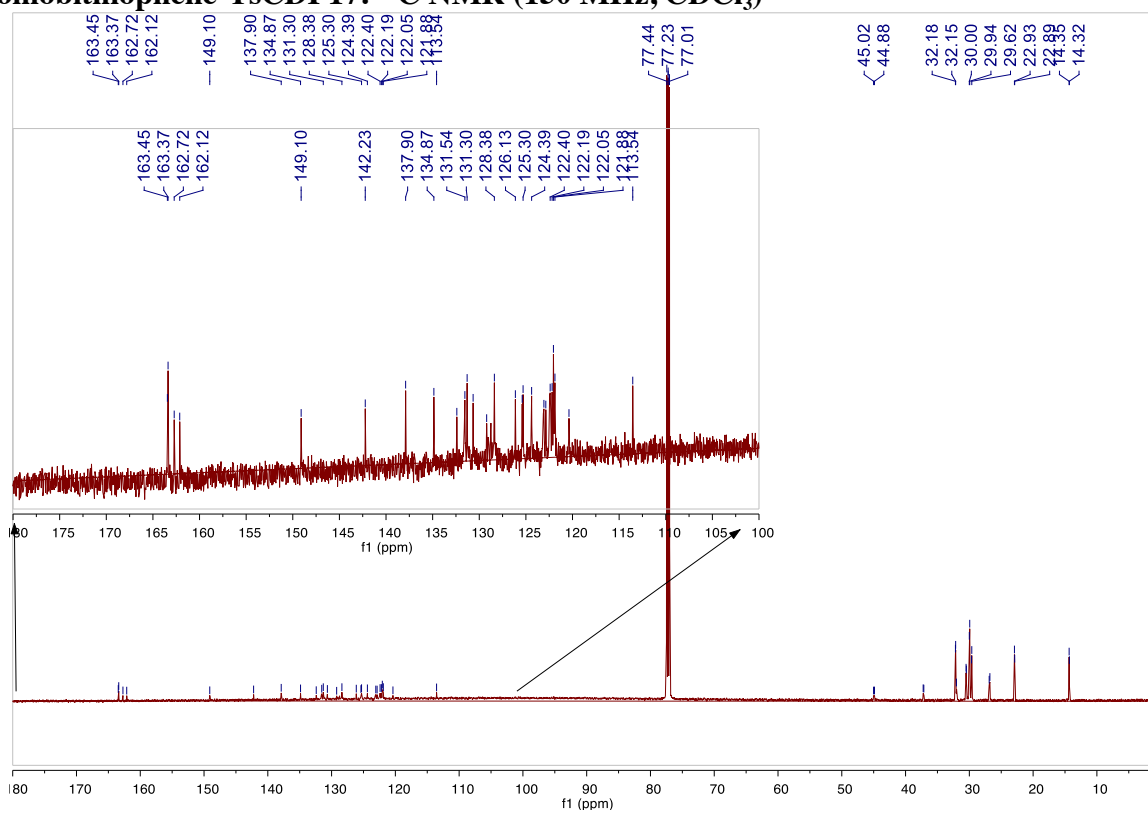


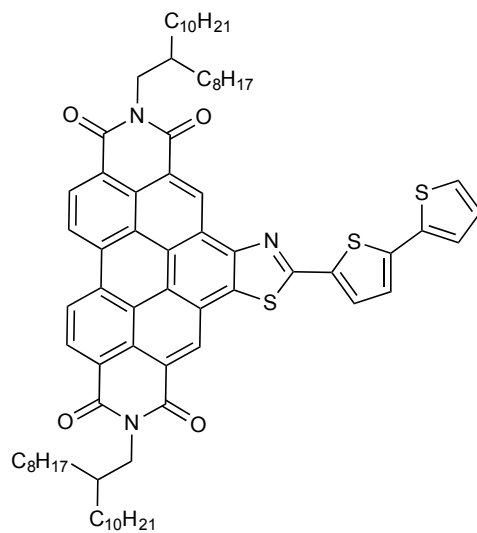


Bromobithiophene-TsCDI 17: ^1H NMR (600 MHz, CDCl_3)

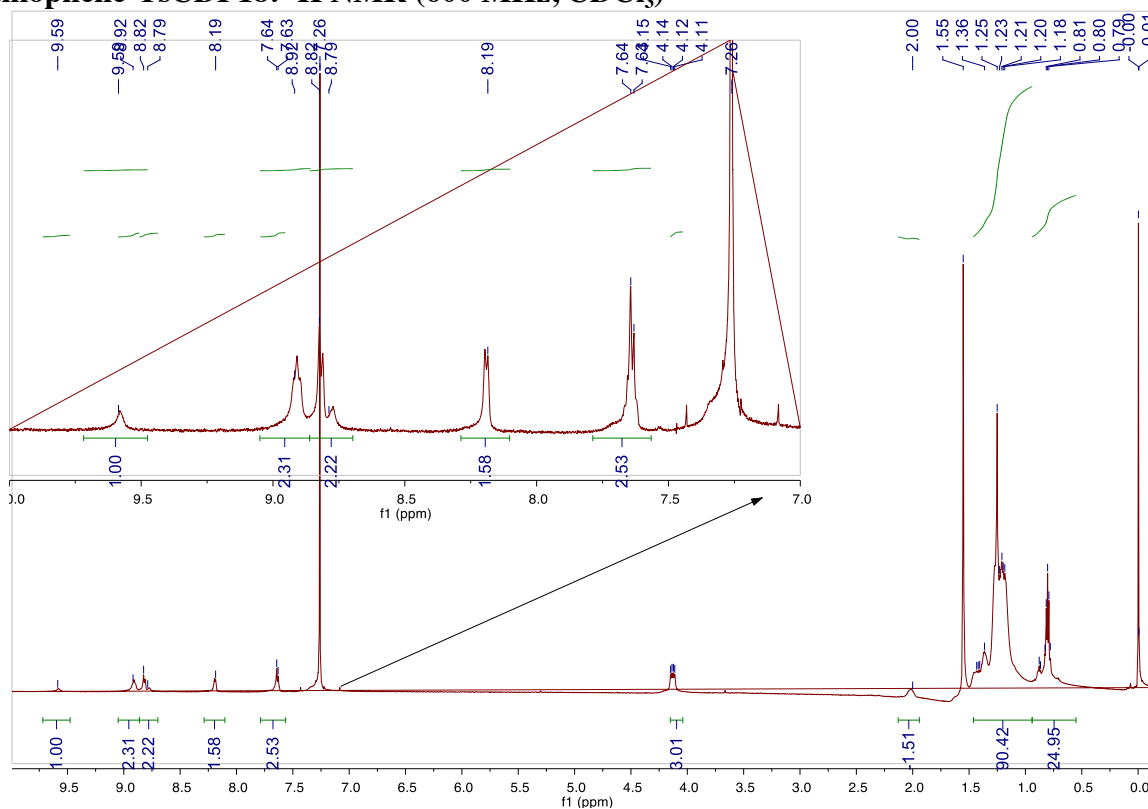


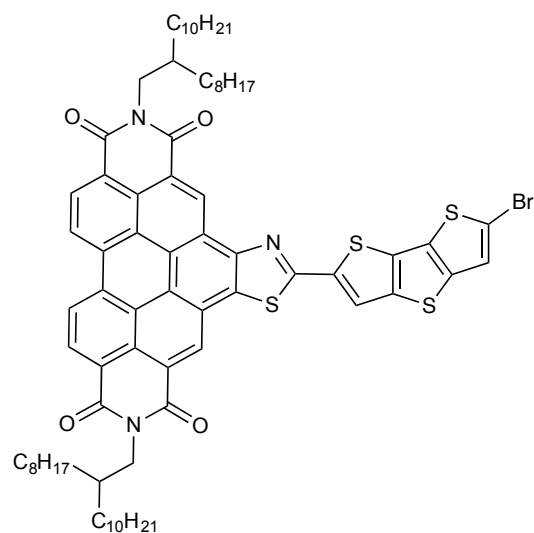
Bromobithiophene-TsCDI 17: ^{13}C NMR (150 MHz, CDCl_3)



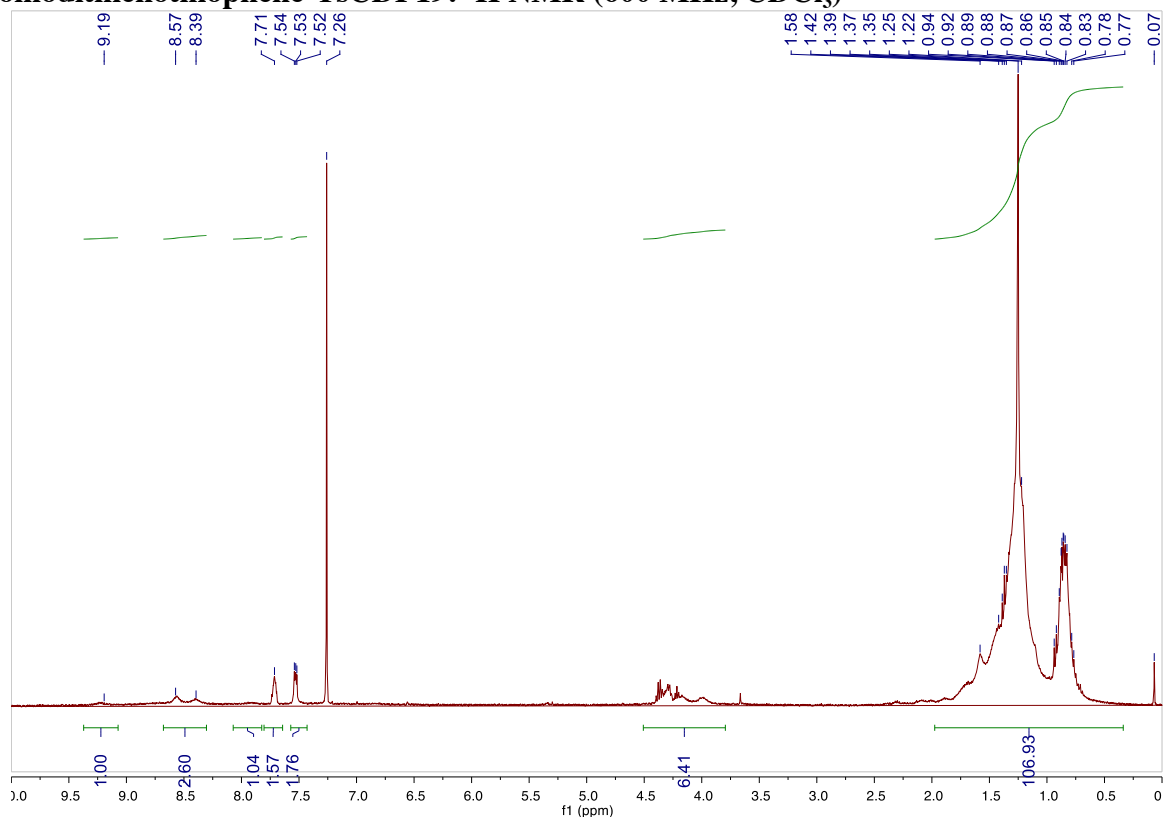


Bithiophene-TsCDI 18: ^1H NMR (600 MHz, CDCl_3)

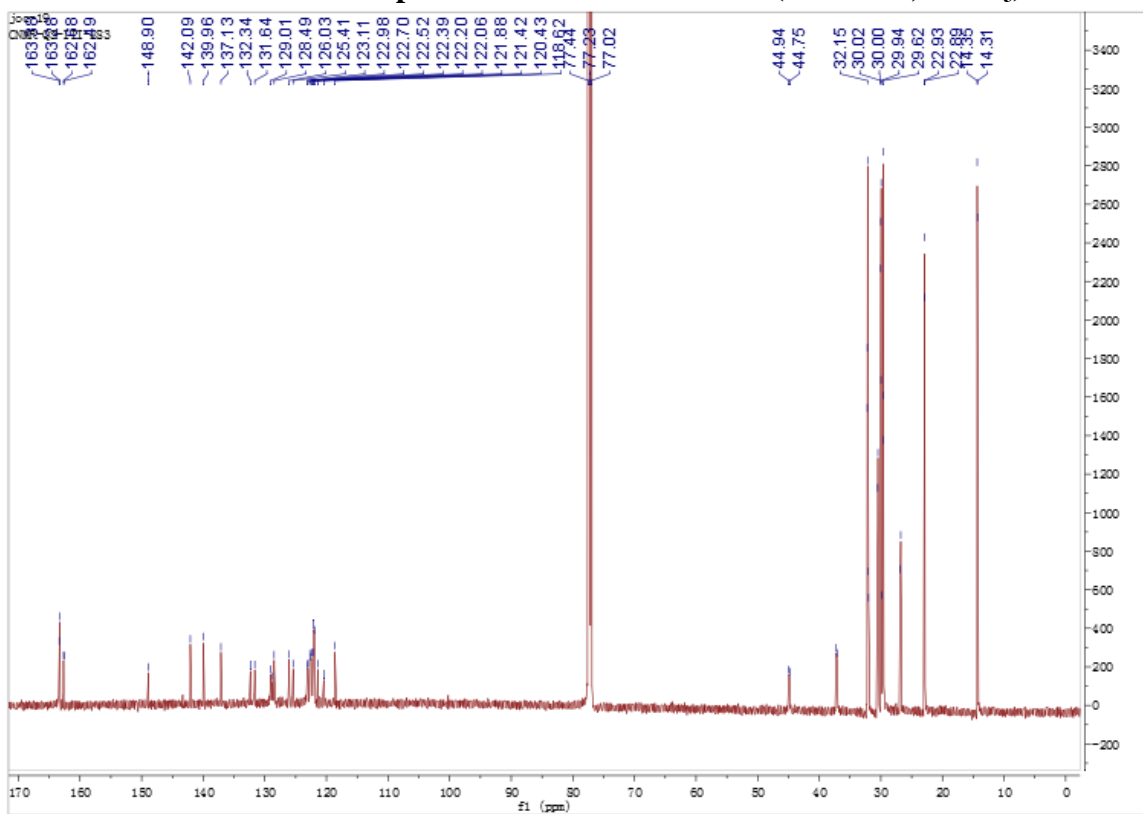


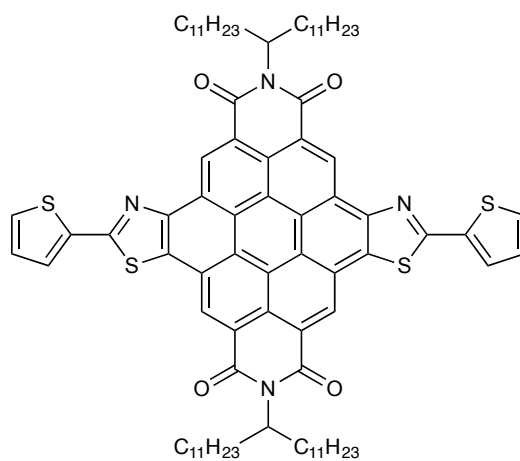


Bromodithienothiophene-TsCDI 19: ^1H NMR (600 MHz, CDCl_3)

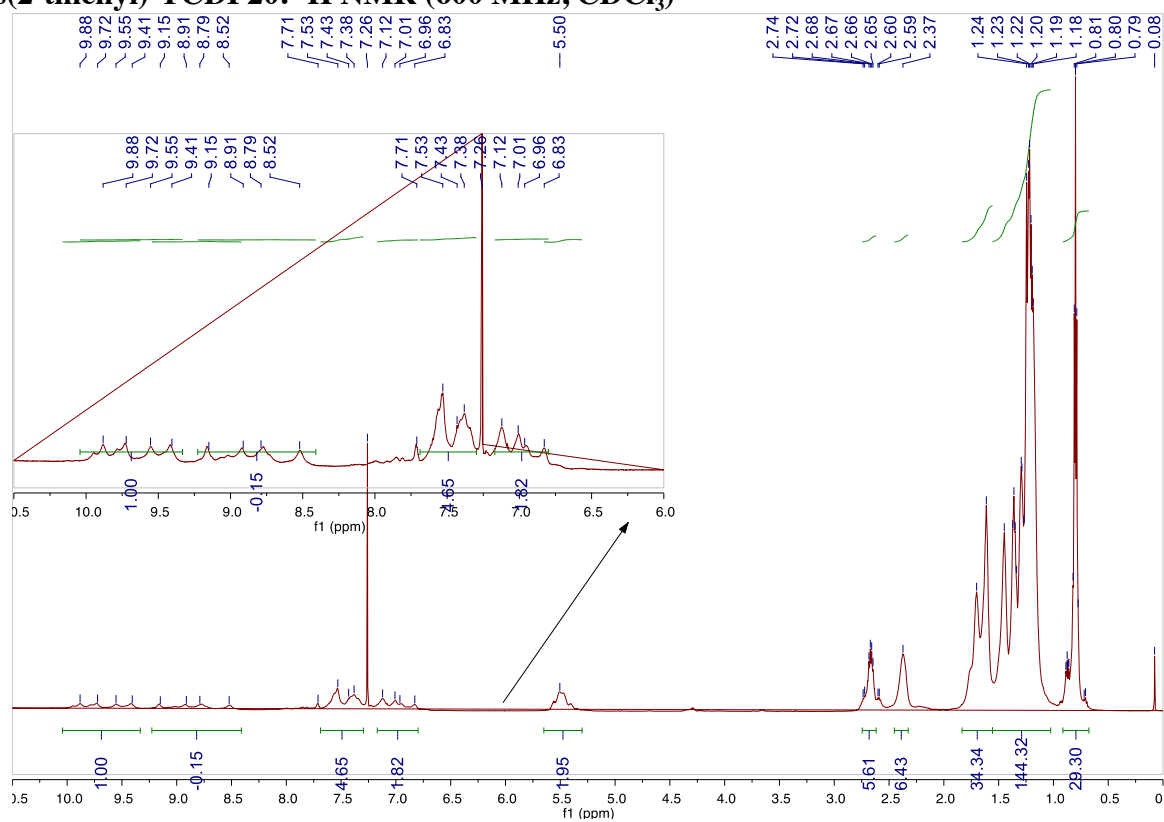


Bromodithienothiophene-TsCDI 19: ^{13}C NMR (150 MHz, CDCl_3)

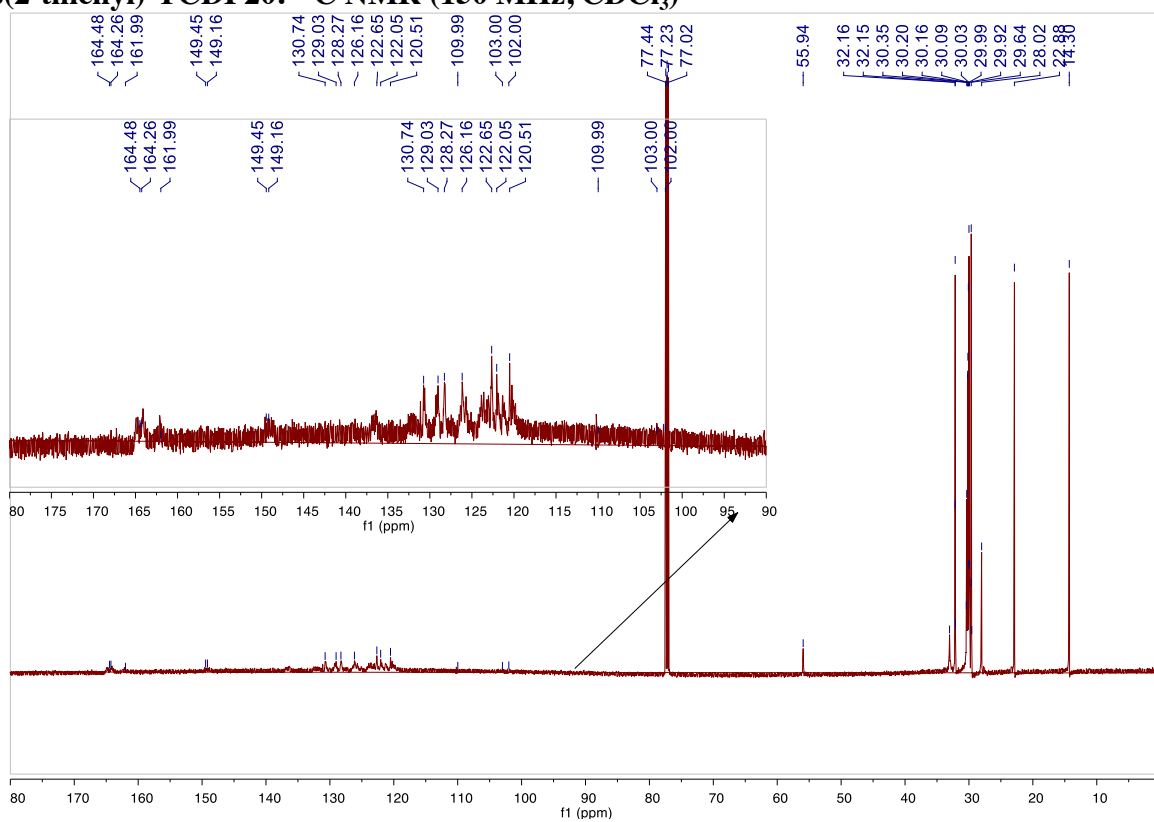


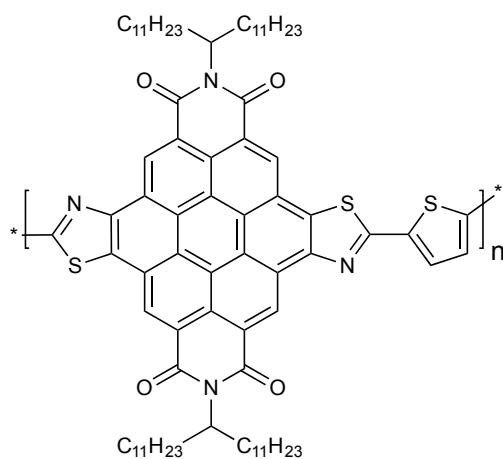


Bis(2-thienyl)-TCDI 20: ^1H NMR (600 MHz, CDCl_3)



Bis(2-thienyl)-TCDI 20: ^{13}C NMR (150 MHz, CDCl_3)





Polymer 22: ^1H NMR (600 MHz, CDCl_3)

