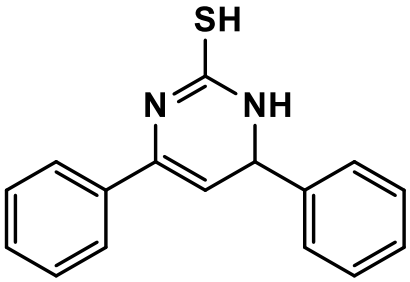
IR Spectroscopy:

Figure S1: IR Spectroscopy of Compound **5a**



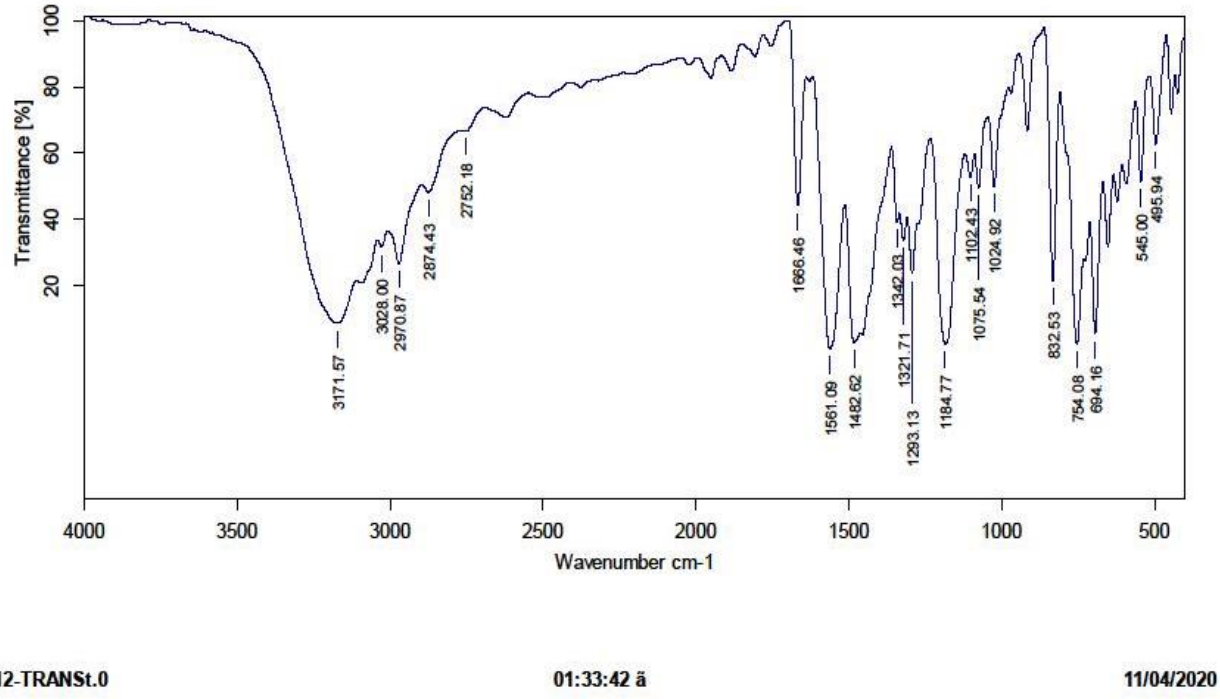
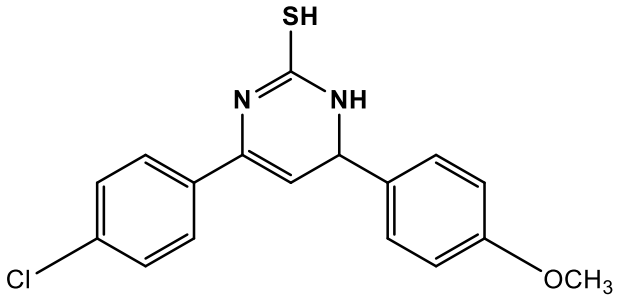


Figure S2: IR Spectroscopy of Compound **5b**



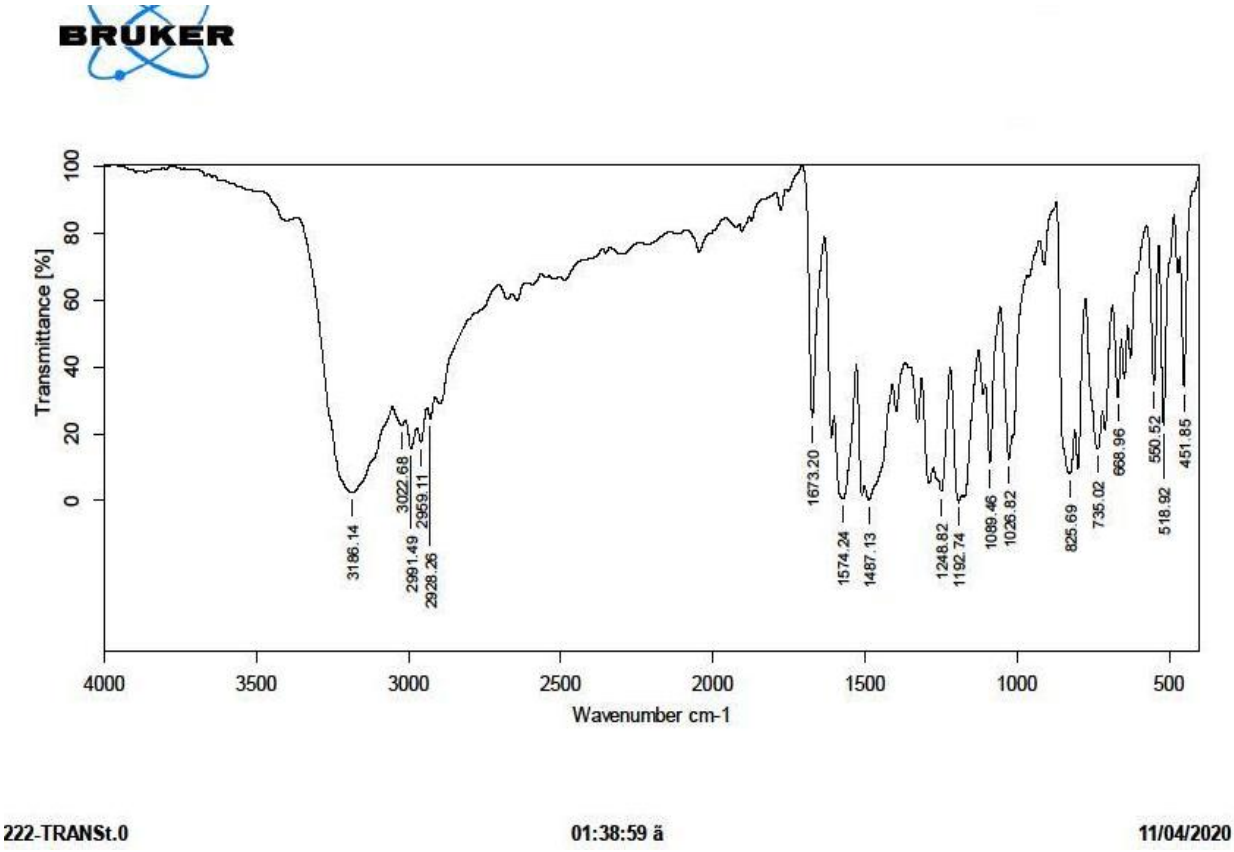
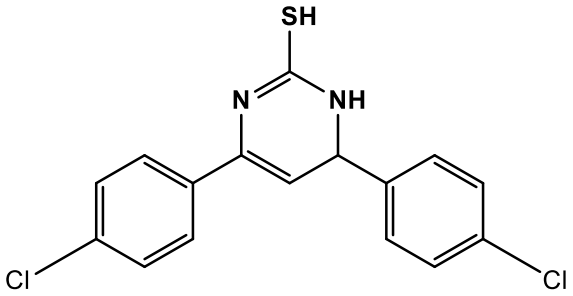
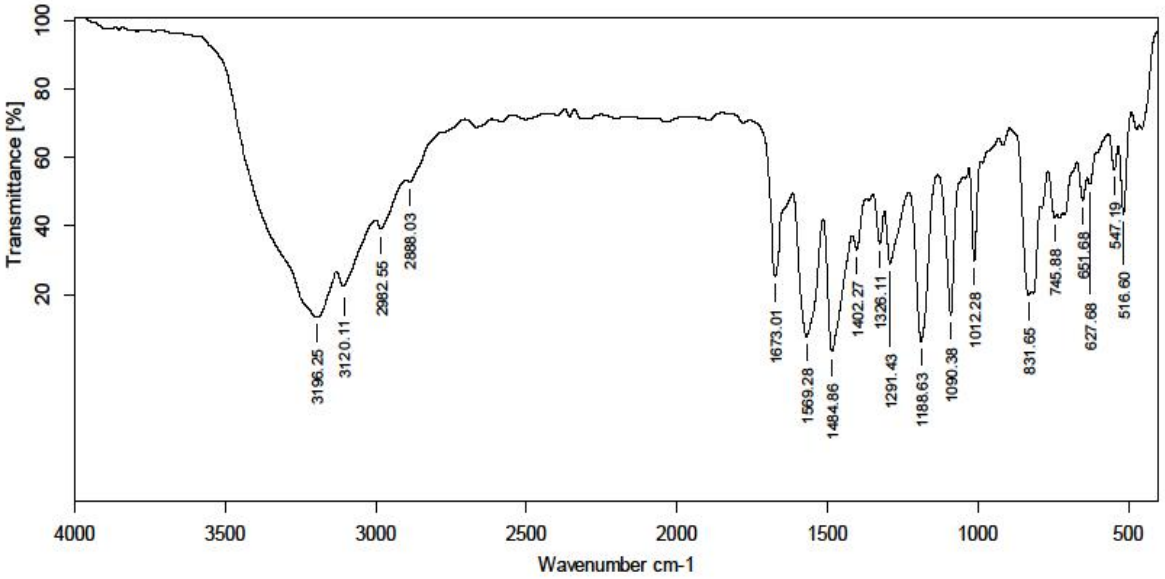


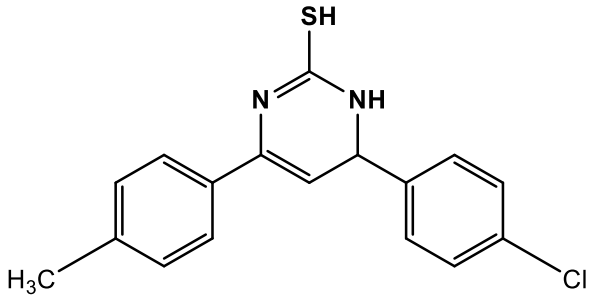
Figure S3: IR Spectroscopy of Compound **5c**

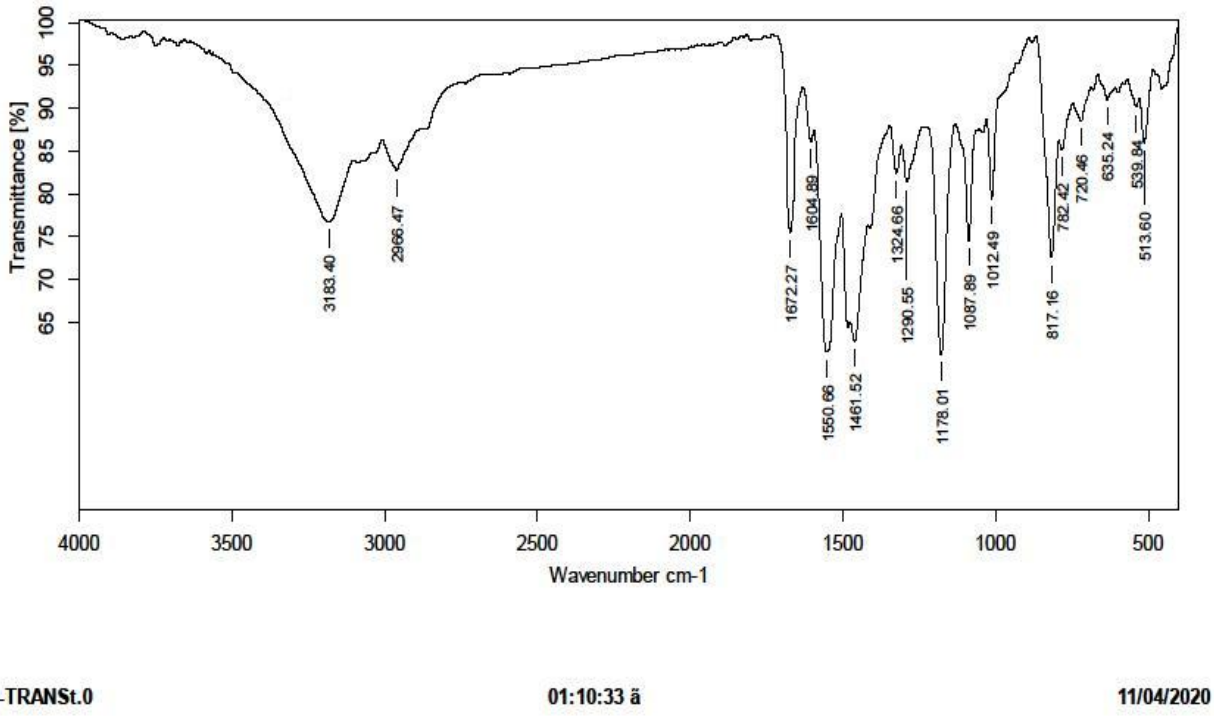




24-TRANSt.0 12:30:28 ã 11/04/2020

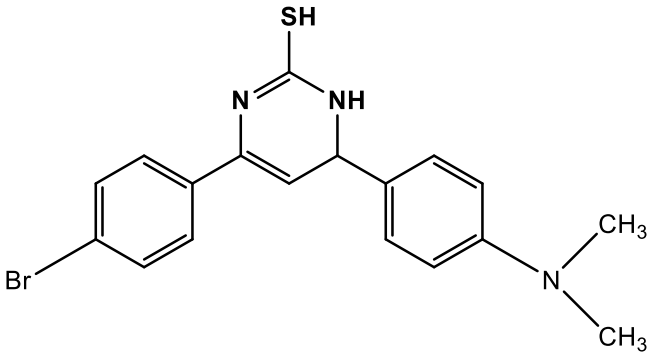
Figure S4: IR Spectroscopy of Compound **5d**

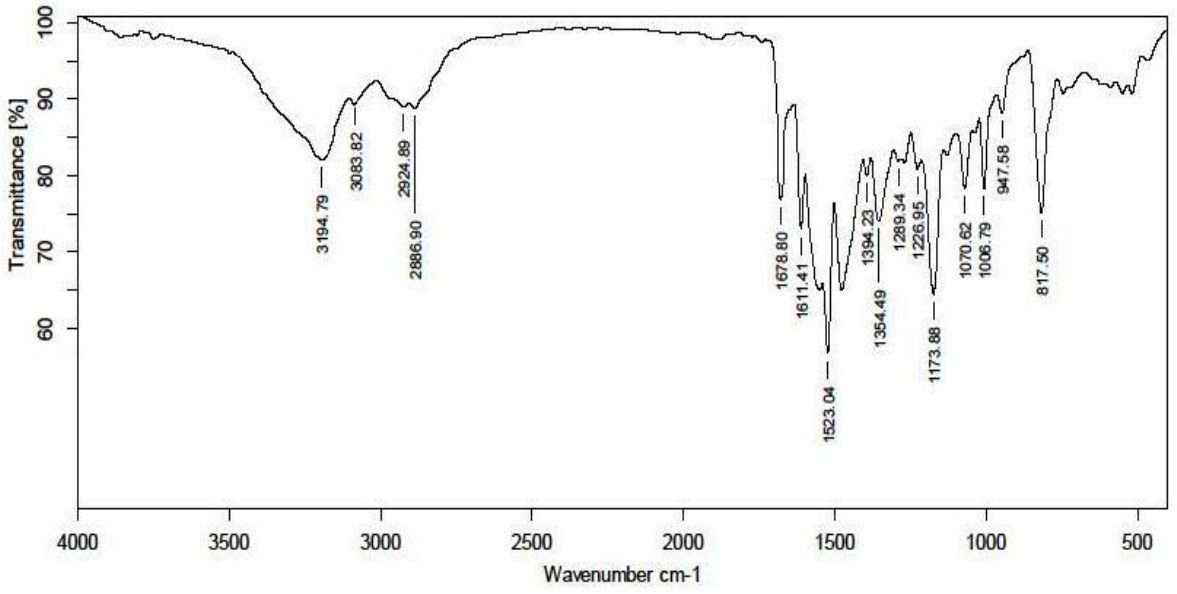




26-TRANSt.0 01:10:33 ã 11/04/2020

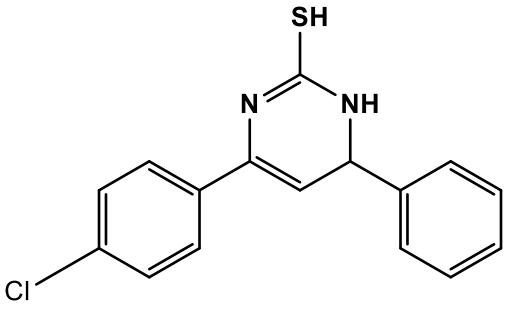
Figure S5: IR Spectroscopy of Compound **5e**

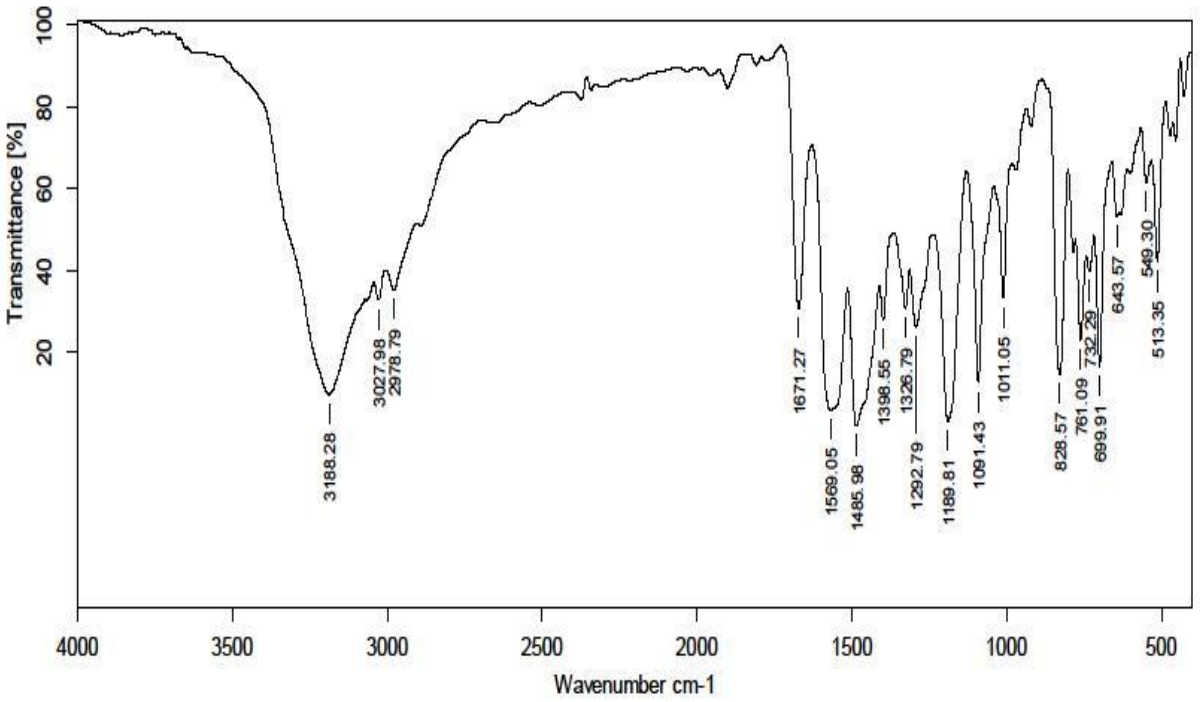




28-TRANSt.0 01:05:56 ã 11/04/2020

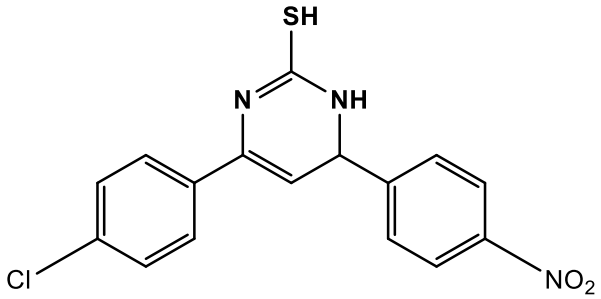
Figure S6: IR Spectroscopy of Compound **5f**





31-TRANSt.0 12:44:25 ã 11/04/2020

Figure S7: IR Spectroscopy of Compound **5g**



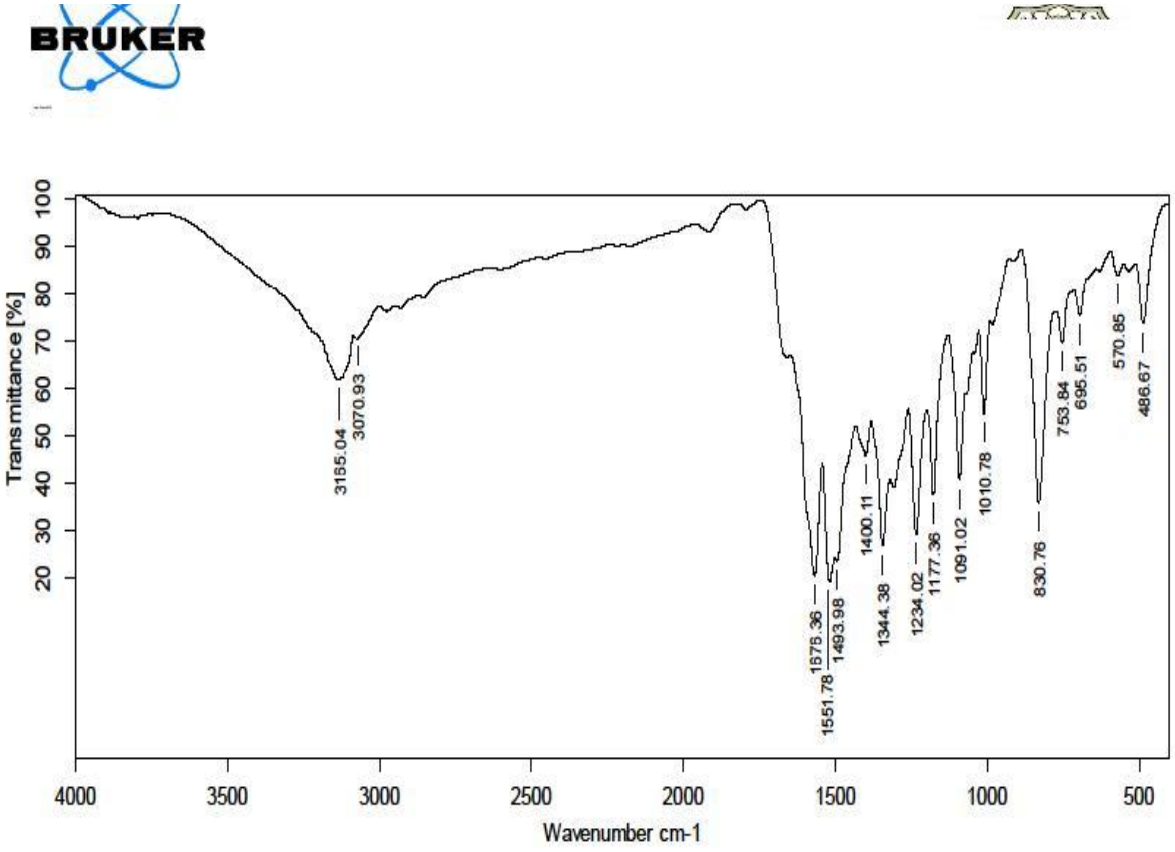
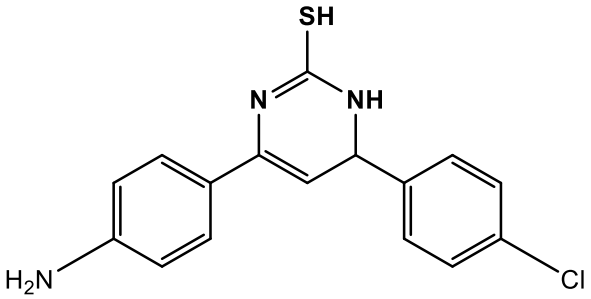
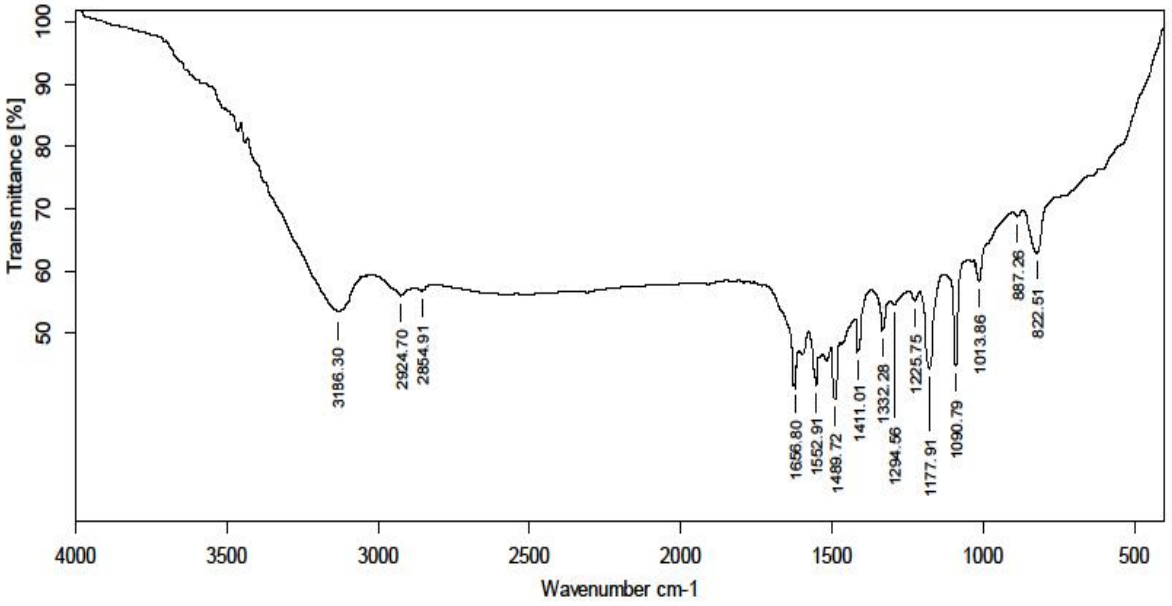


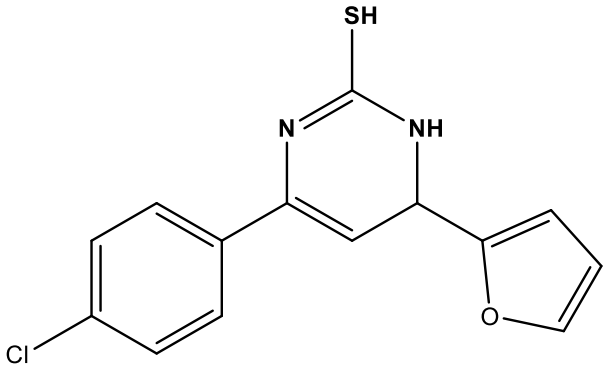
Figure S8: IR Spectroscopy of Compound **5h**

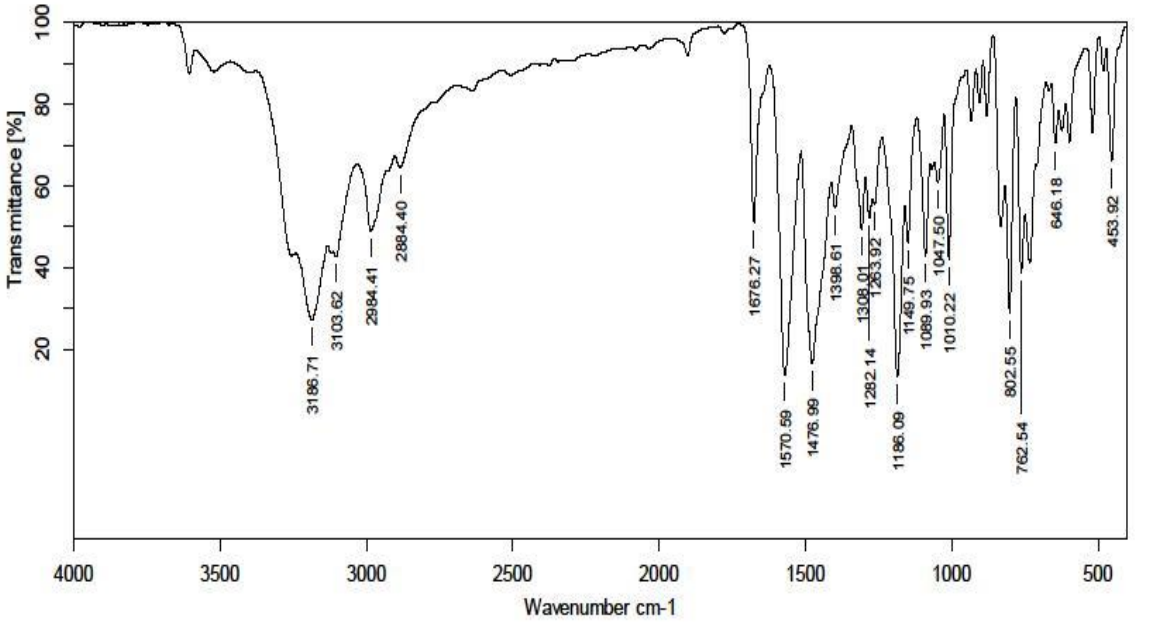




103-TRANSt.0 01:17:11 ã 11/04/2020

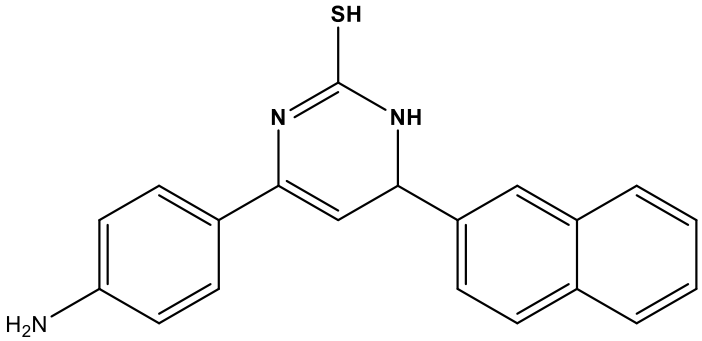
Figure S9: IR Spectroscopy of Compound **5i**

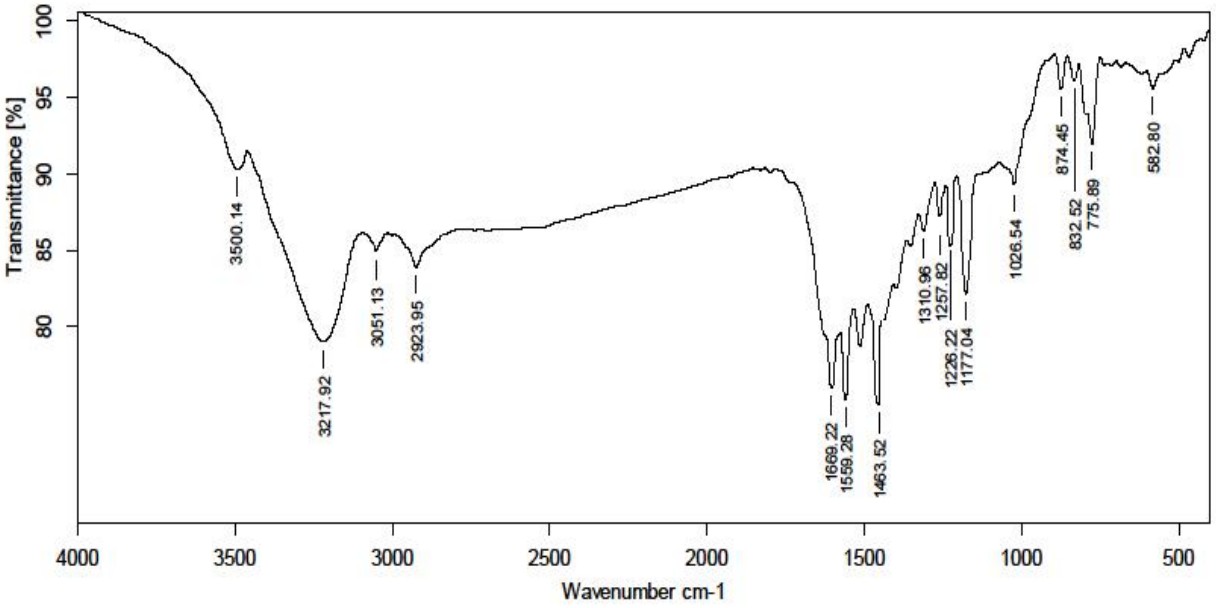




25-TRANSt.0 12:56:39 ä 11/04/2020

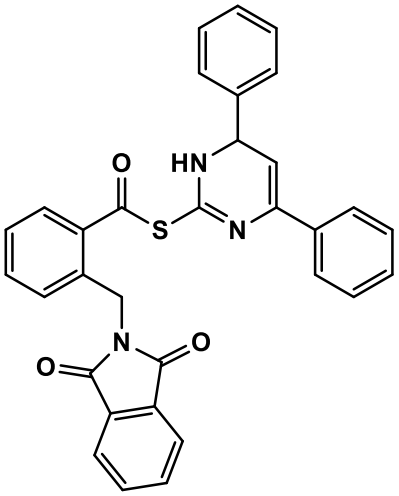
Figure S10: IR Spectroscopy of Compound **5j**

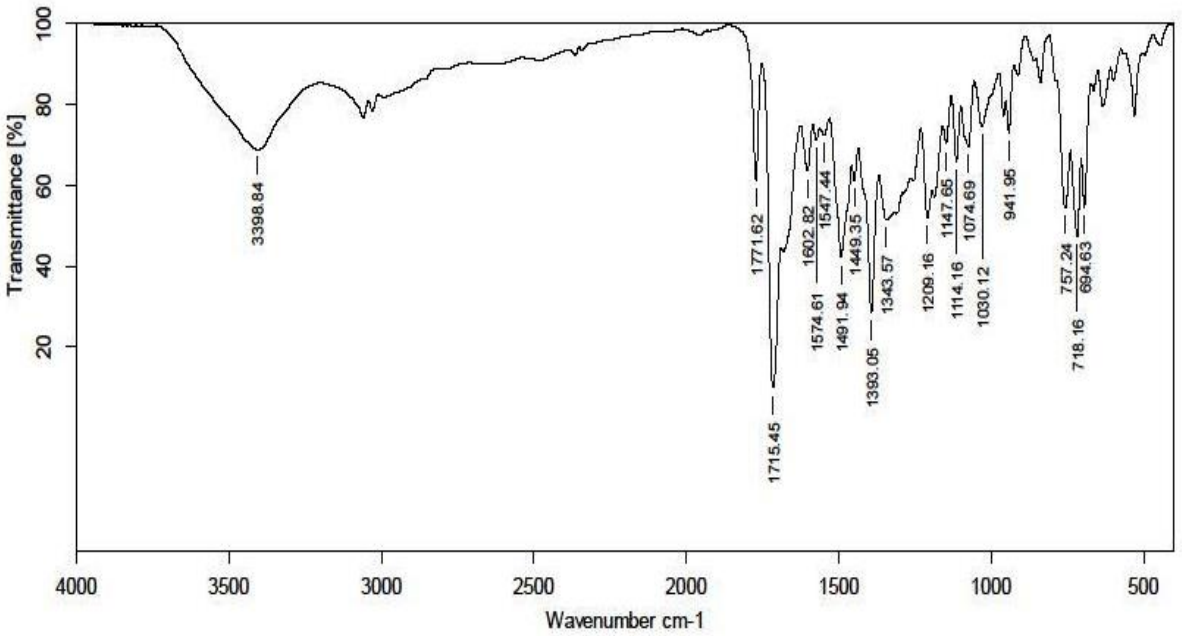




105-TRANSt.0 01:26:22 ã 11/04/2020

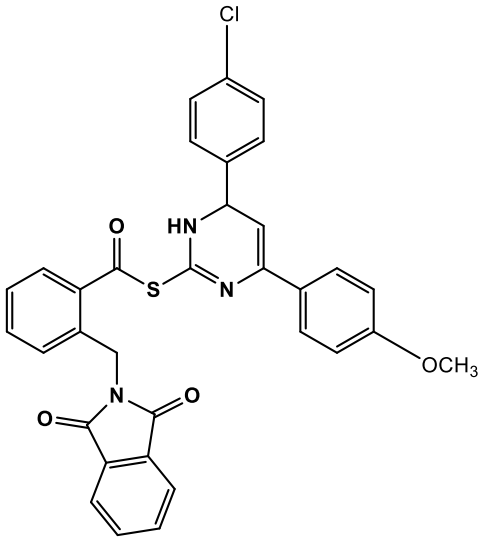
Figure S11: IR Spectroscopy of Compound **10a**

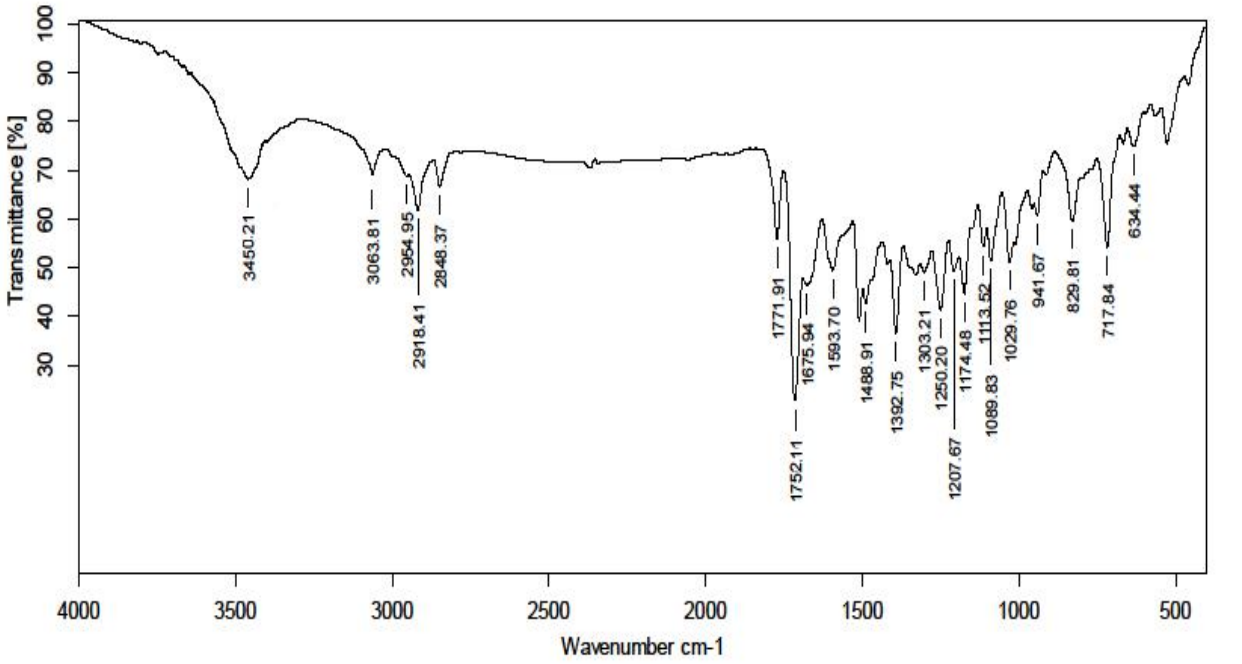




98-TRANS.0 12:26:37 ã 13/04/2020

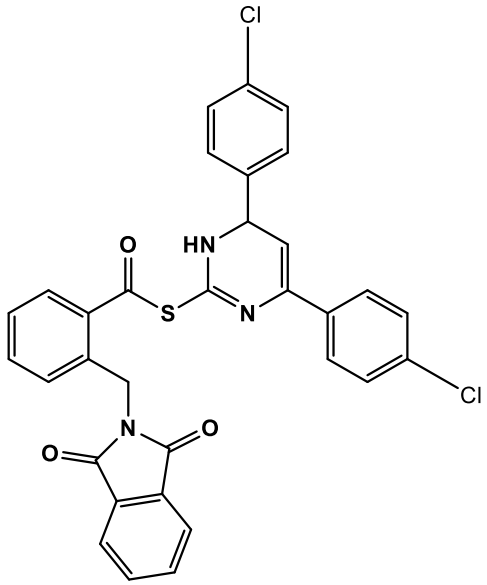
Figure S12: IR Spectroscopy of Compound **10b**

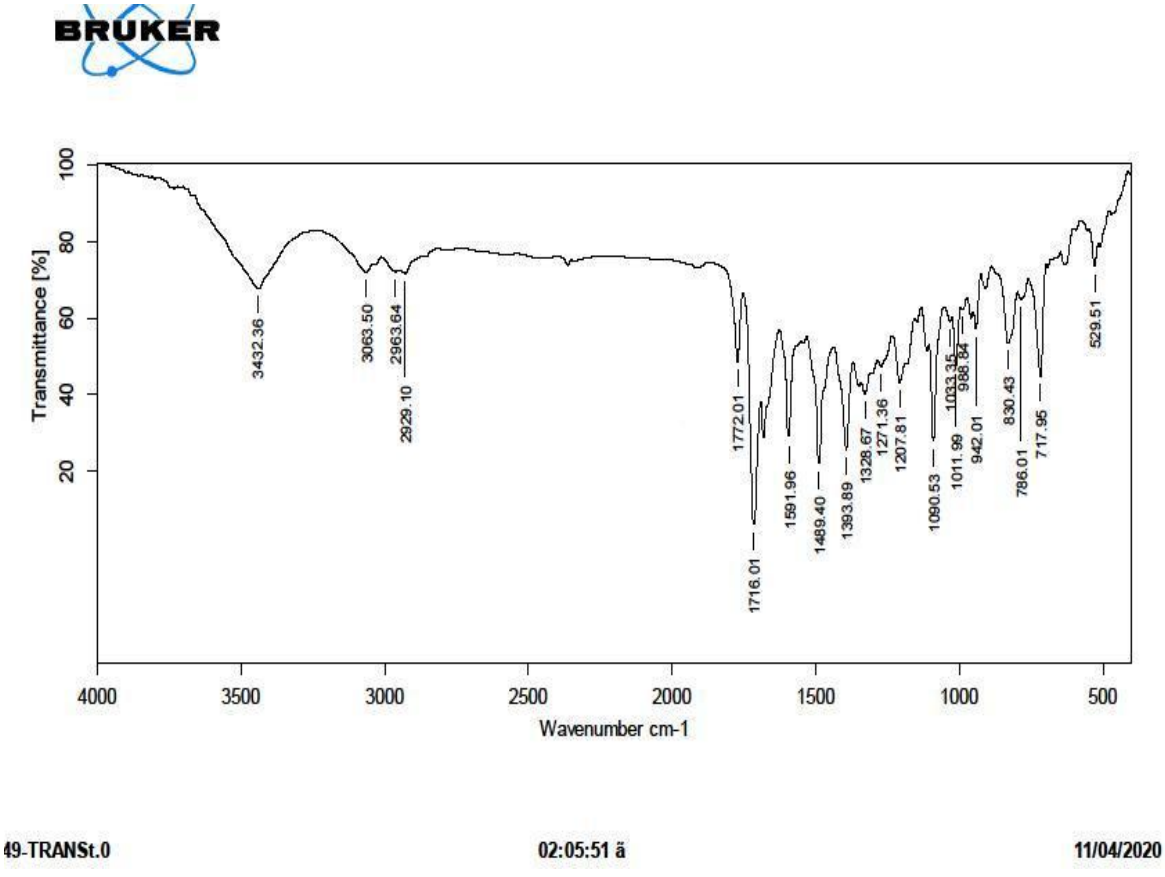




97-TRANSt.0 02:26:11 ã 11/04/2020

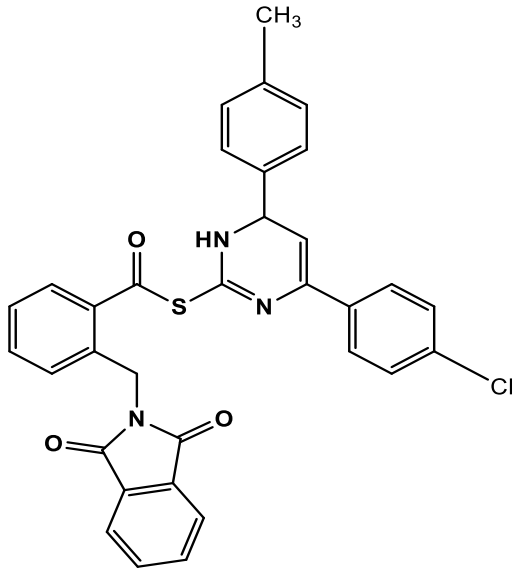
Figure S13: IR Spectroscopy of Compound **10c**

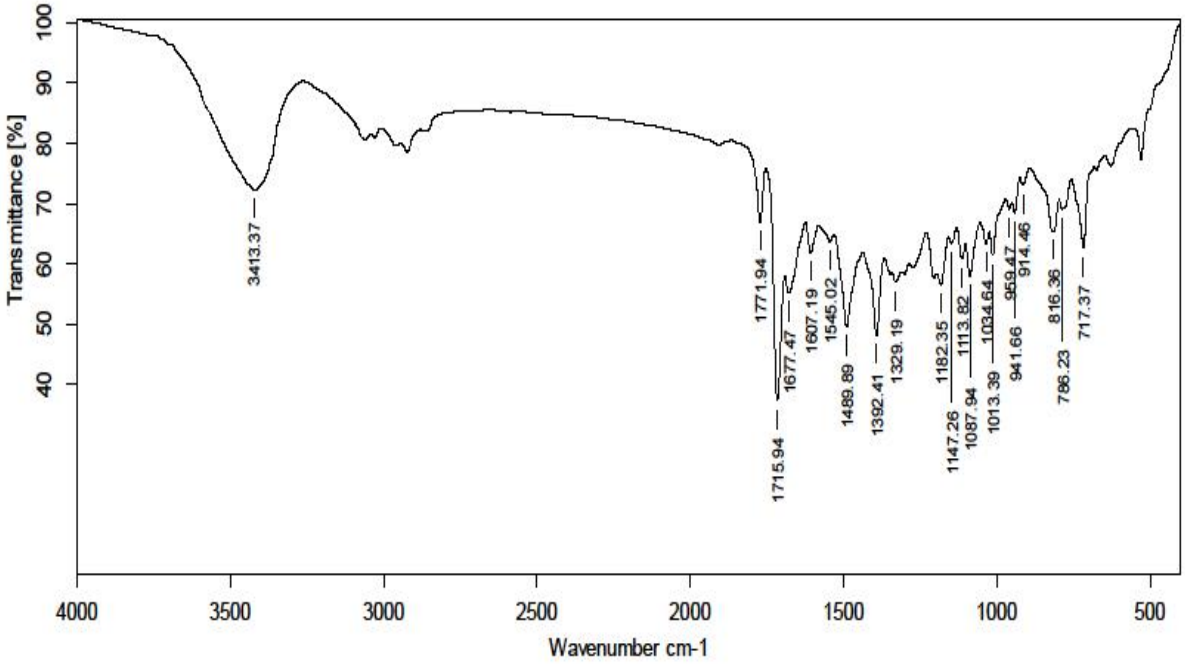




49-TRANSt.0 02:05:51 ã 11/04/2020

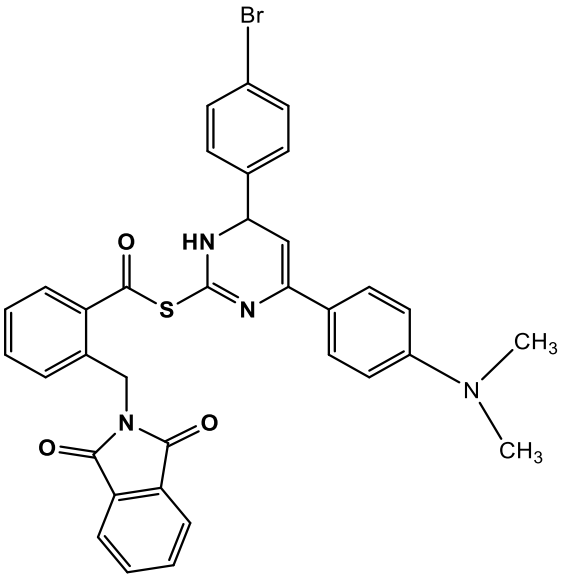
Figure S14: IR Spectroscopy of Compound **10d**

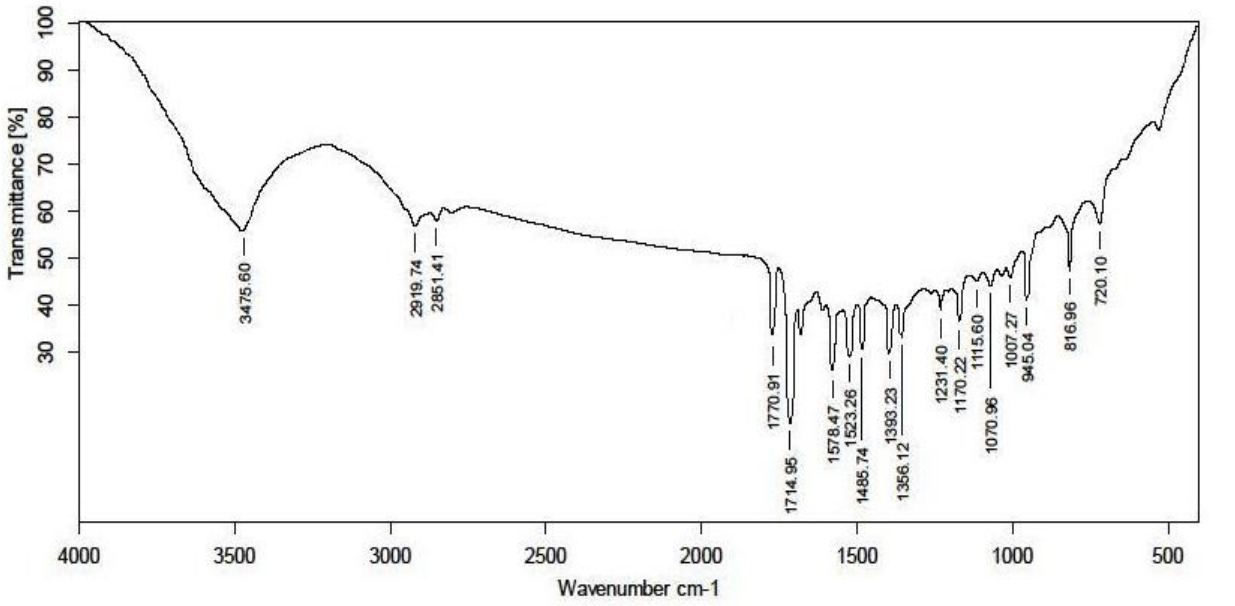




69-TRANS.1 12:27:01 ã 13/04/2020

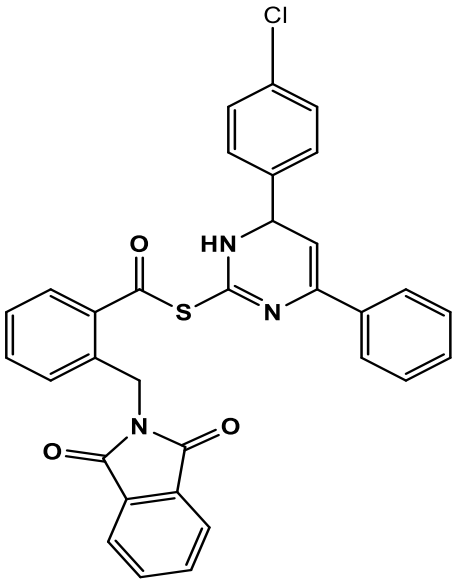
Figure S15: IR Spectroscopy of Compound **10e**

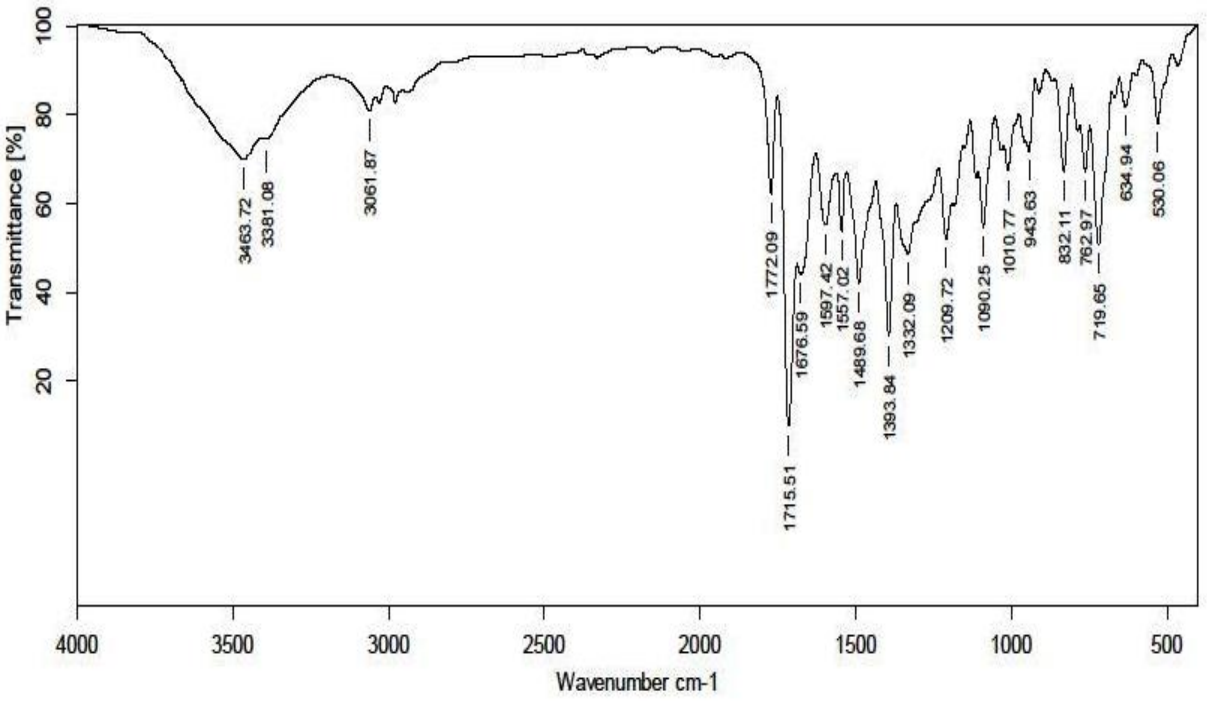




89-TRANSt.0 02:12:27 ã 11/04/2020

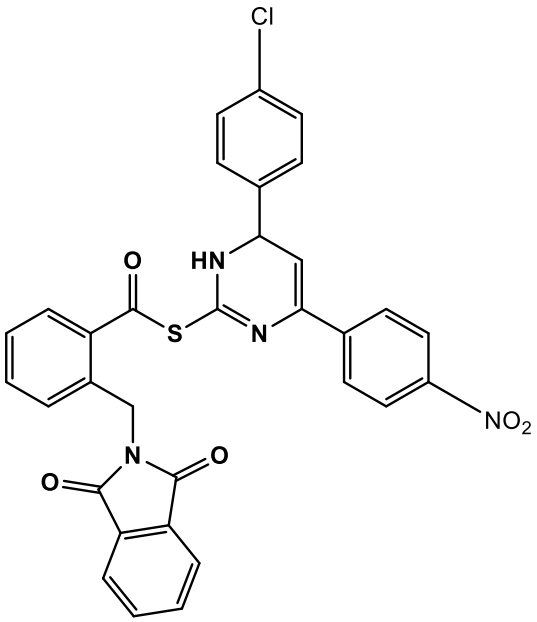
Figure S16: IR Spectroscopy of Compound **10f**

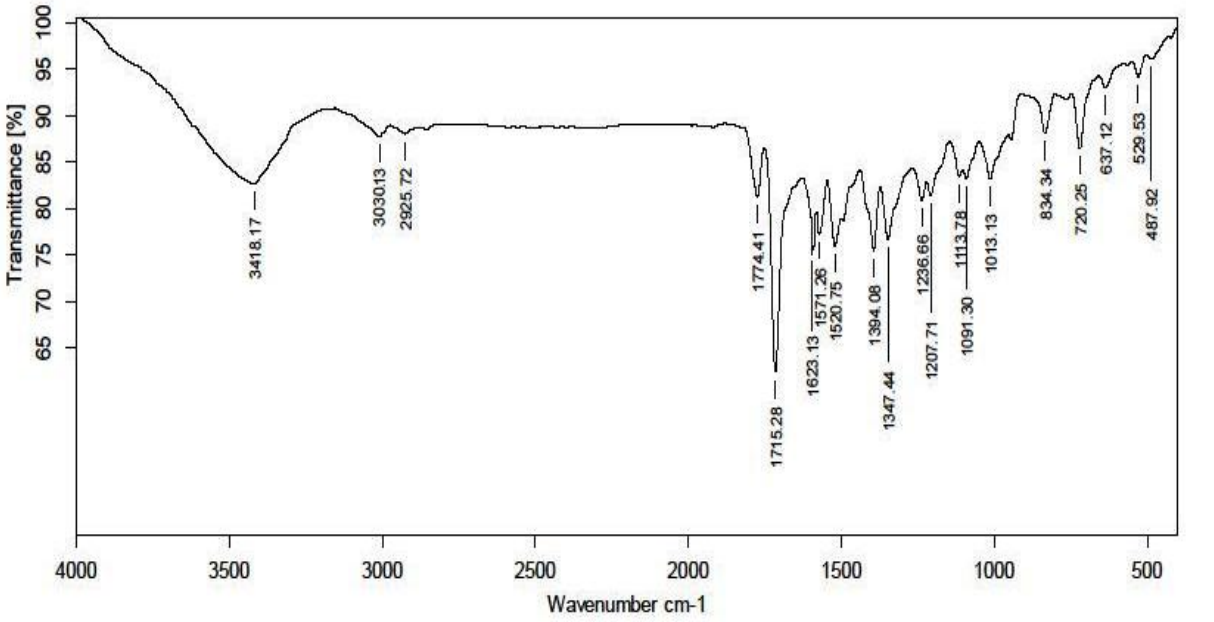




101-TRANSt.0 02:17:19 ã 11/04/2020

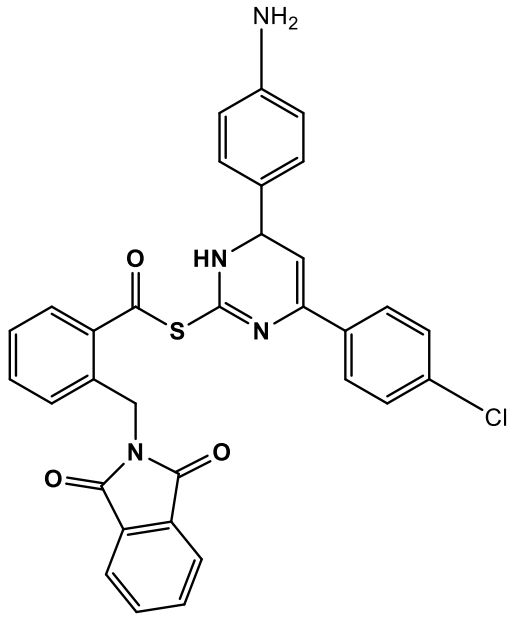
Figure S17: IR Spectroscopy of Compound **10g**

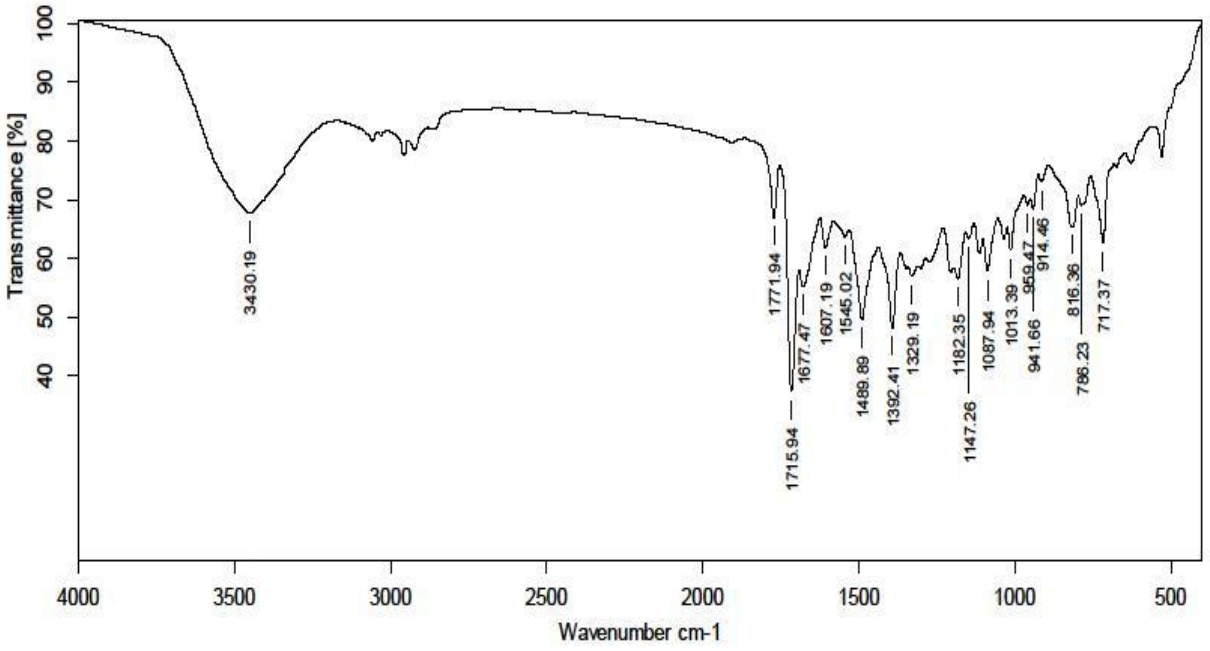




102-TRANSt.0 02:21:32 ã 11/04/2020

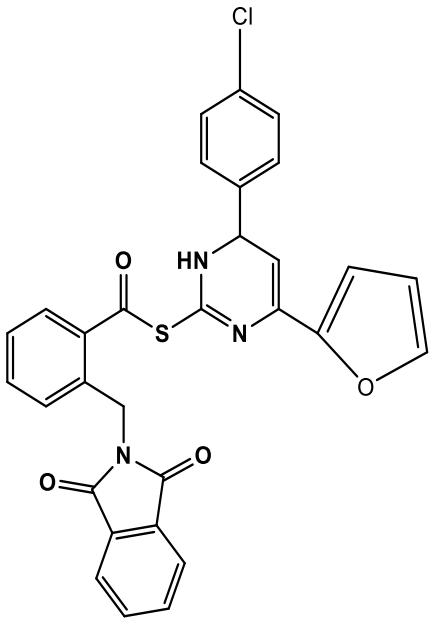
Figure S18: IR Spectroscopy of Compound **10h**

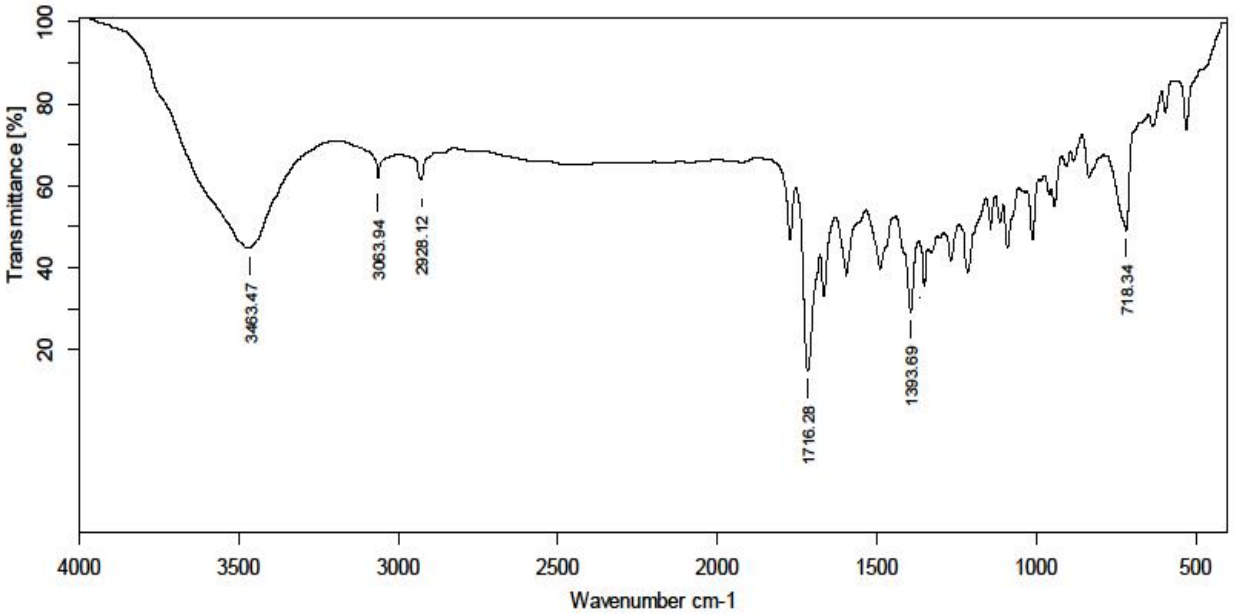




69-TRANS.1 12:27:01 ã 13/04/2020

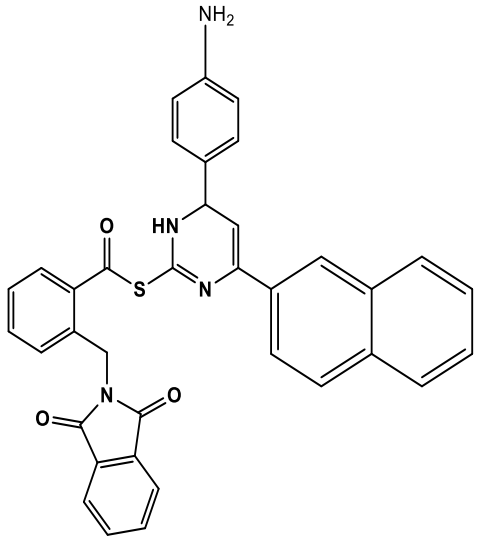
Figure S19: IR Spectroscopy of Compound **10i**

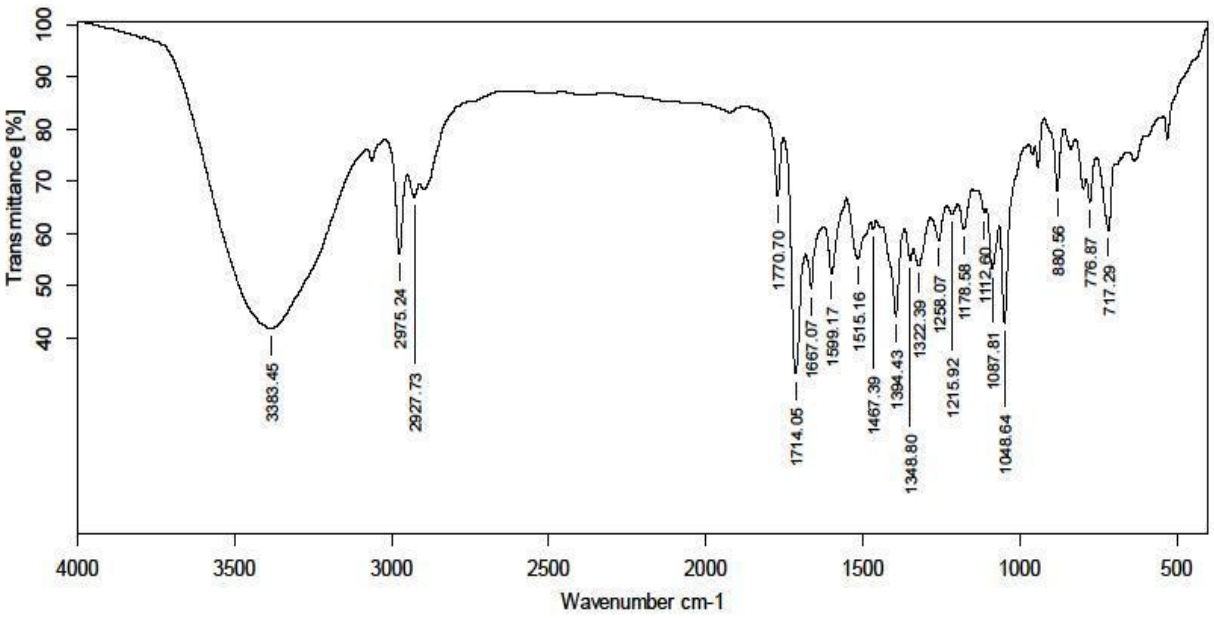




100-TRANS.0 12:25:36 ã 13/04/2020

Figure S20: IR Spectroscopy of Compound **10j**





106-TRANS.0 12:12:06 ã 13/04/2020

^{1}H NMR Spectroscopy

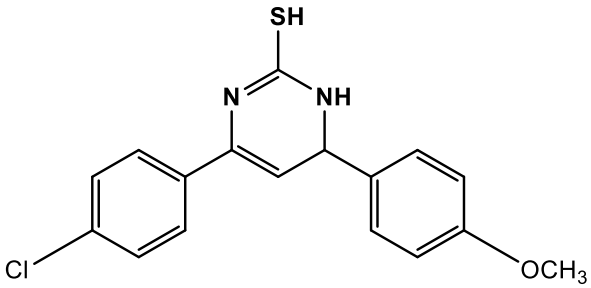


Figure S21: ^{1}H NMR Spectroscopy of Compound **5b**

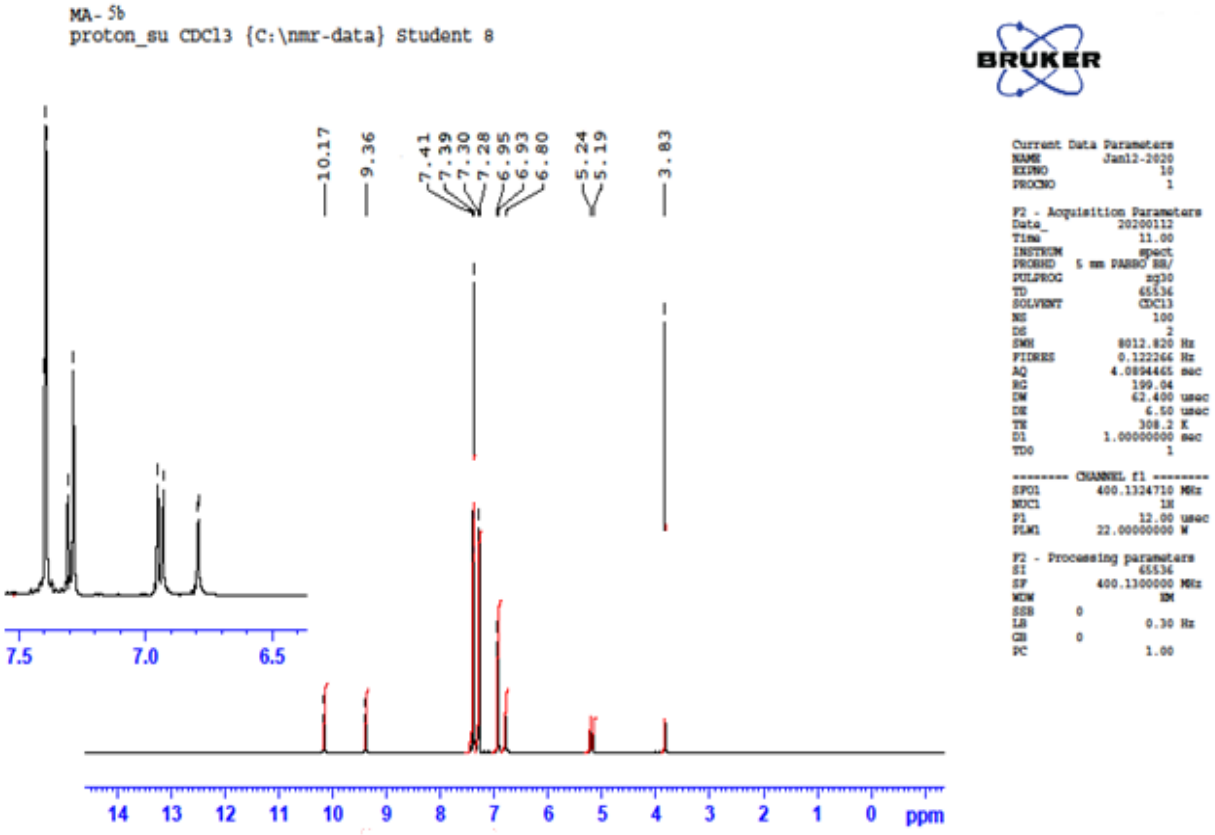
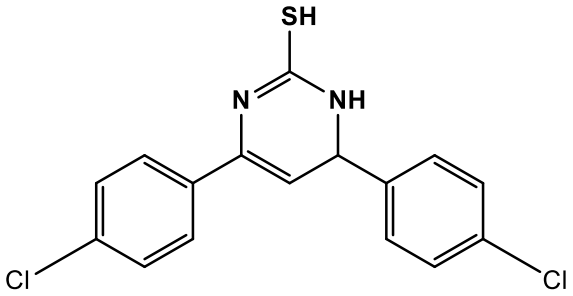


Figure S22: ^{1}H NMR Spectroscopy of Compound **5c**



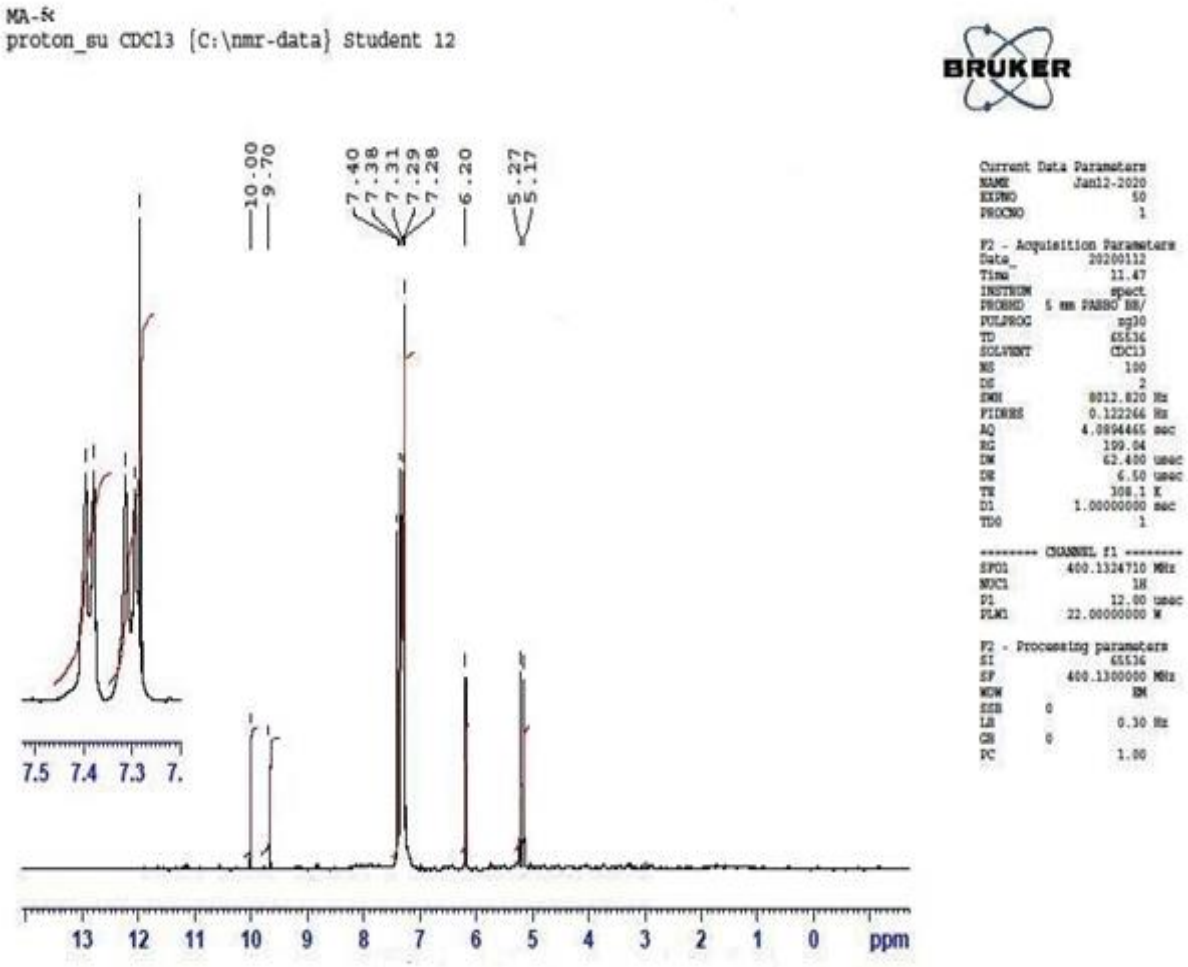
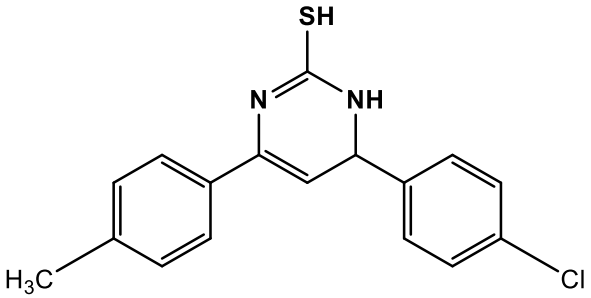


Figure S23: ^{1}H NMR Spectroscopy of Compound **5d**



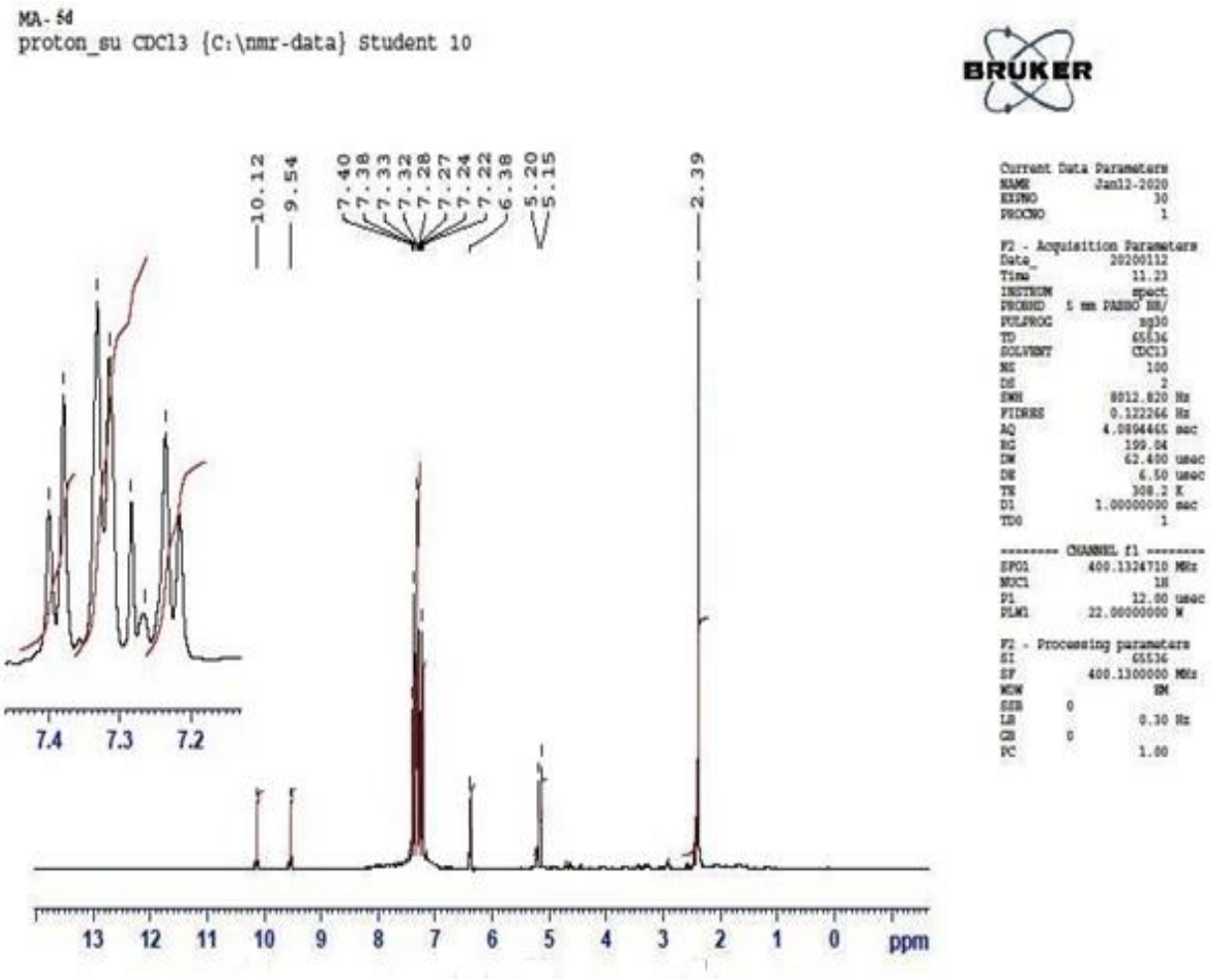
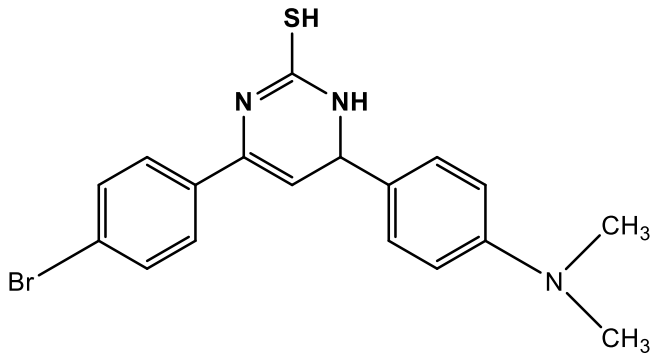


Figure S24: ^{1}H NMR Spectroscopy of Compound **5e**



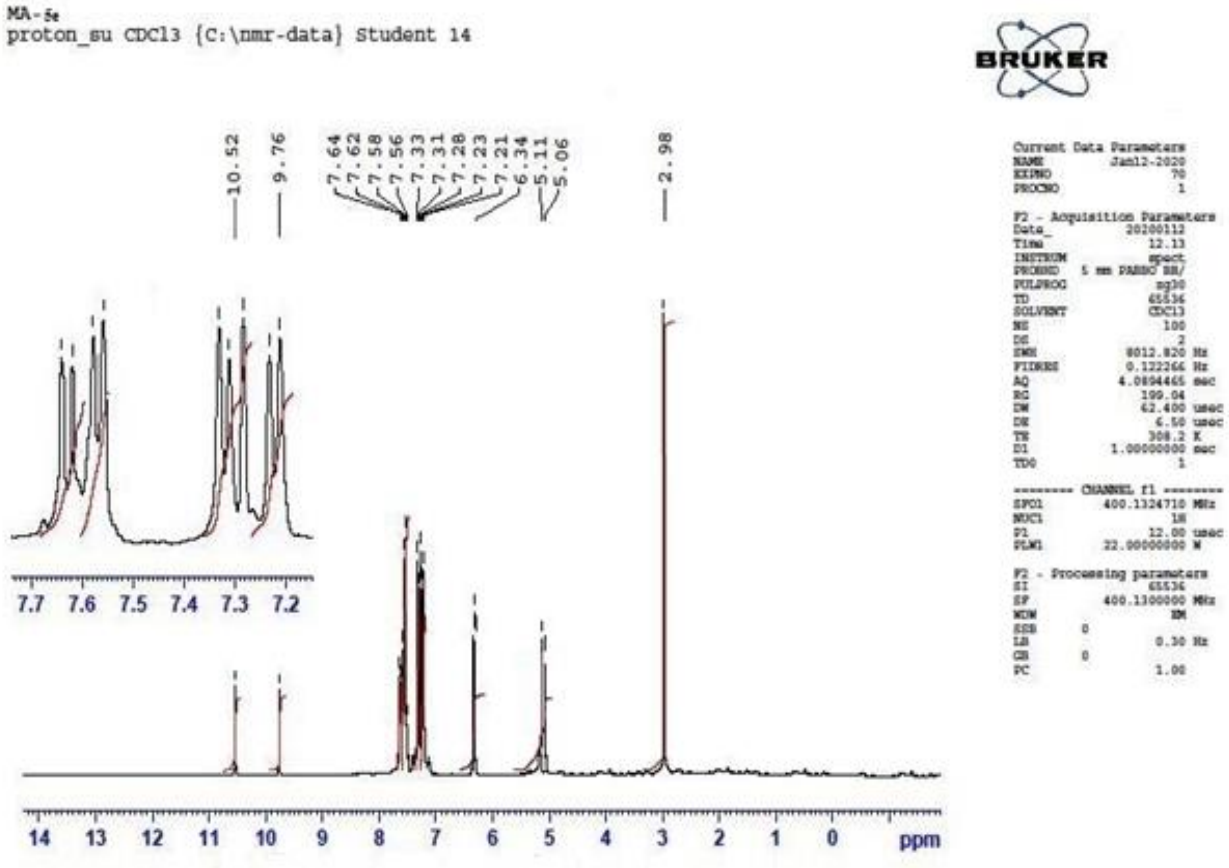
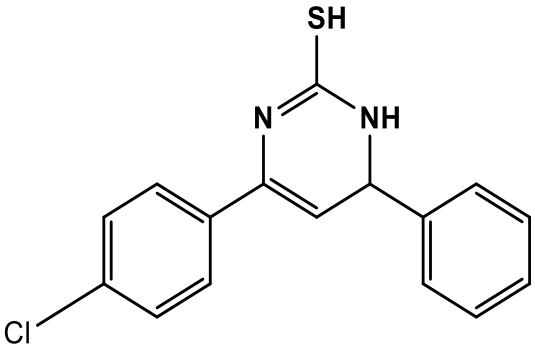


Figure S25: ^{1}H NMR Spectroscopy of Compound **5f**



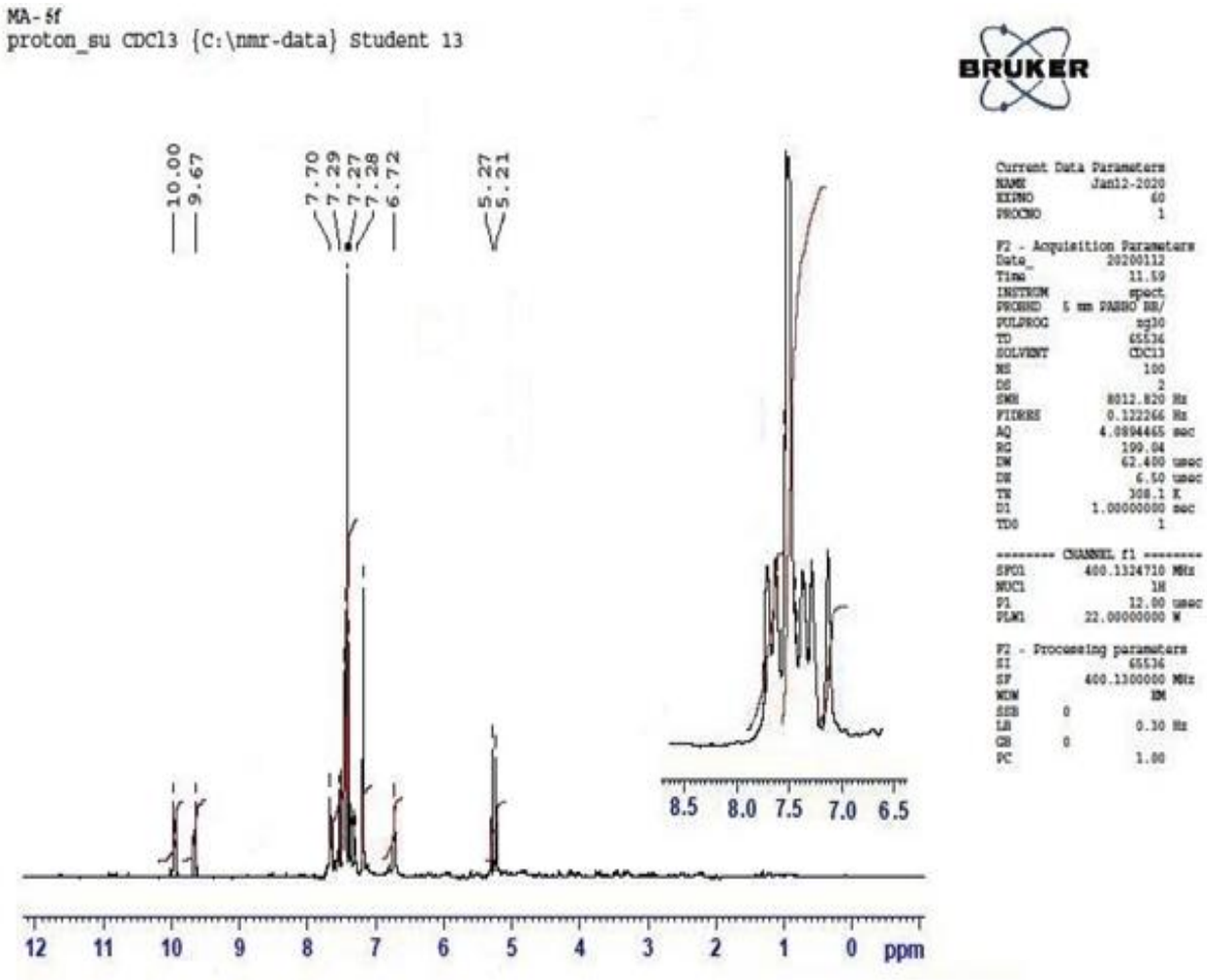
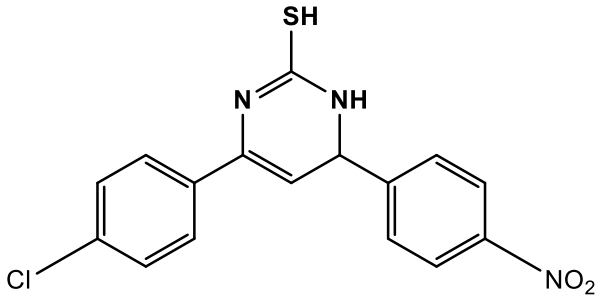


Figure S26: ^{1}H NMR Spectroscopy of Compound **5g**



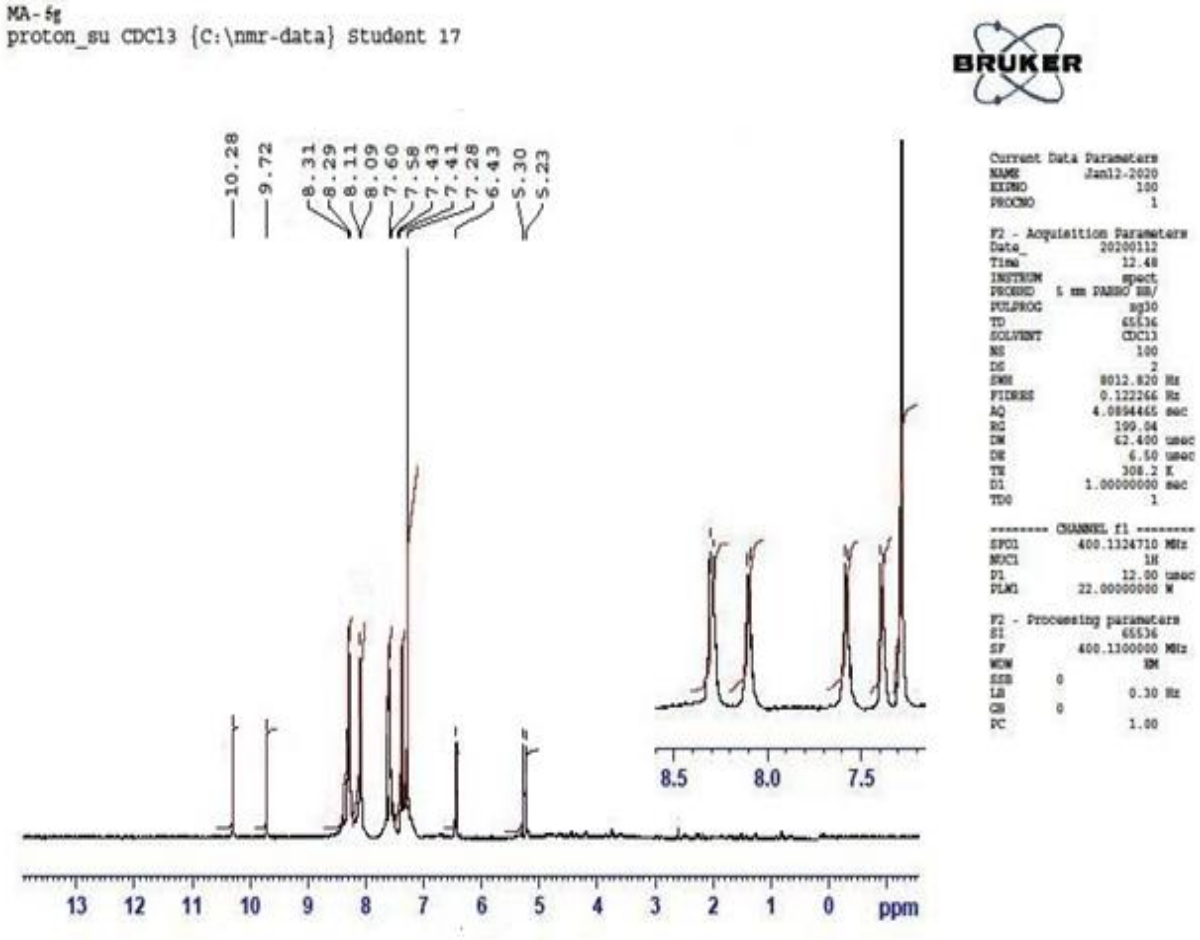
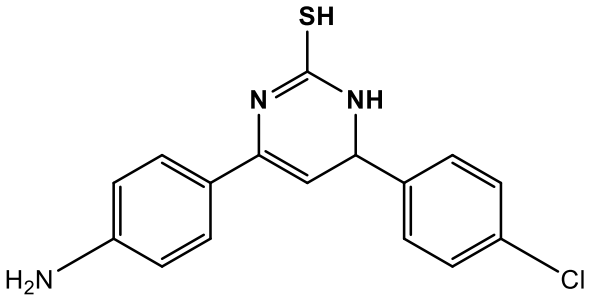


Figure S27: ^{1}H NMR Spectroscopy of Compound **5h**



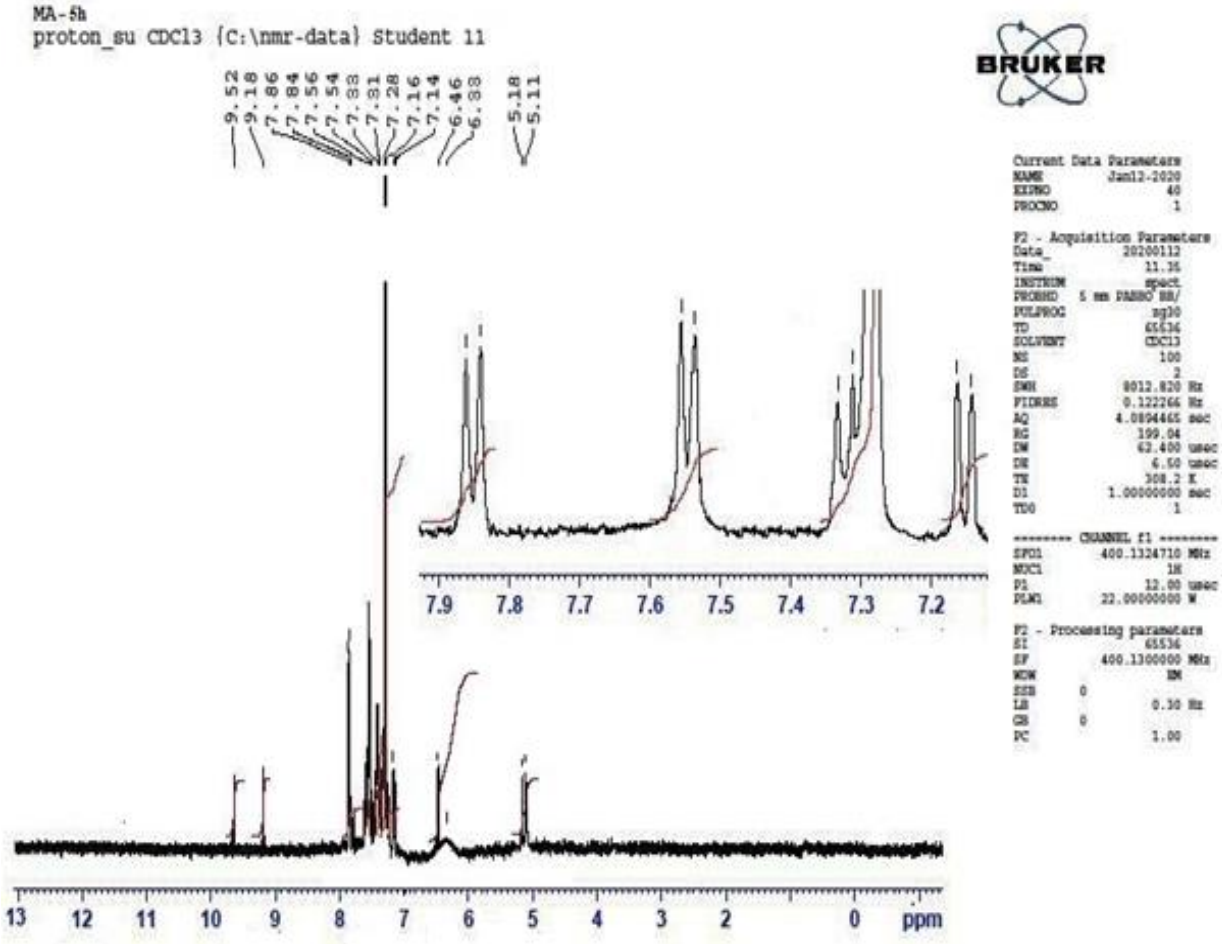
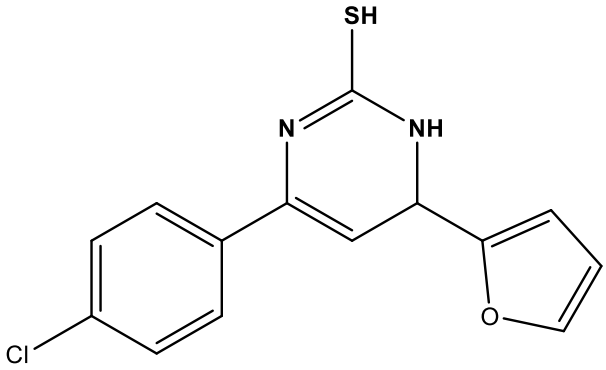


Figure S28: ^{1}H NMR Spectroscopy of Compound **5i**



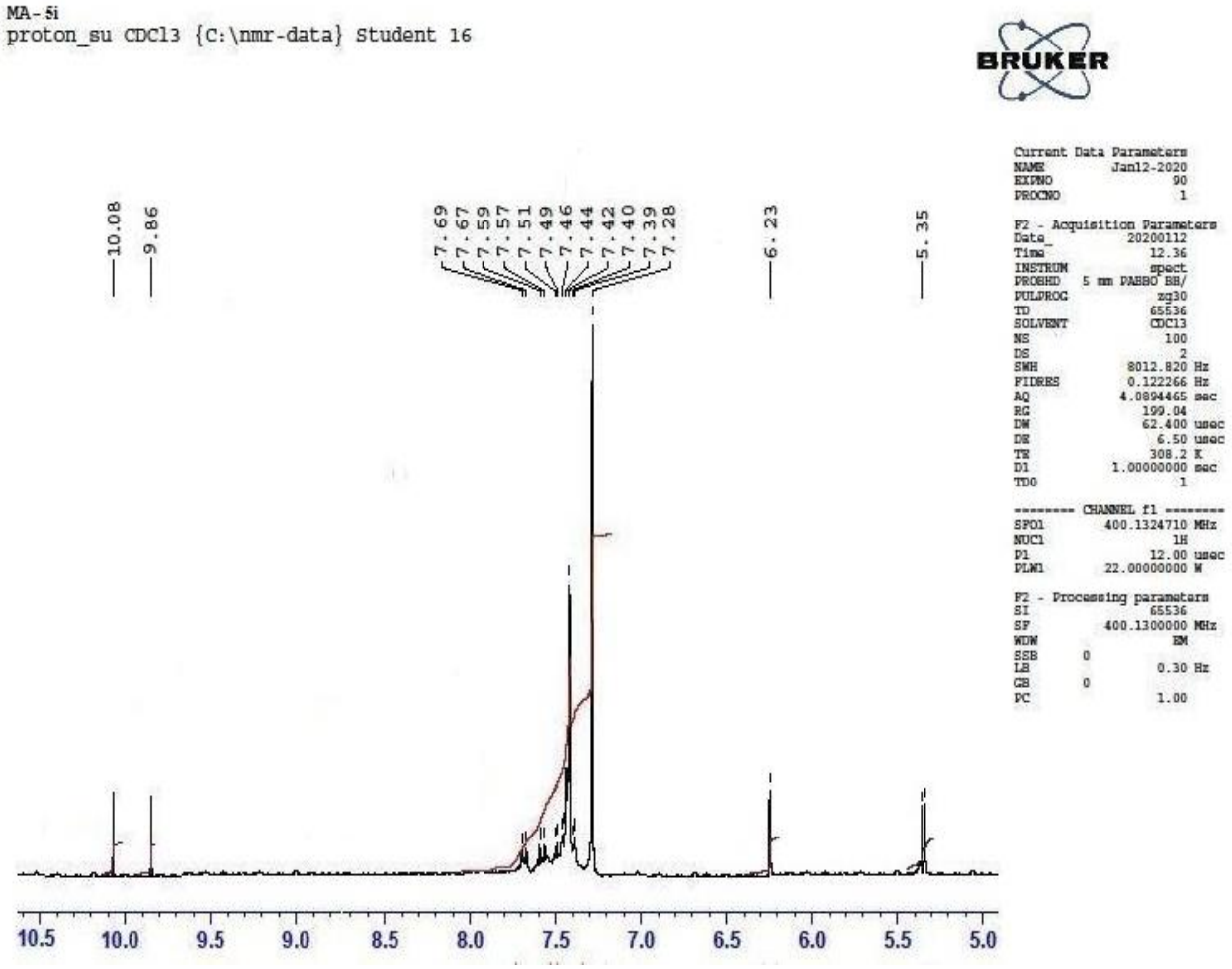
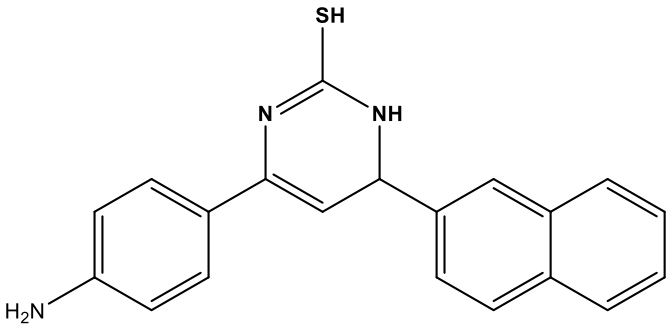


Figure S29: ^{1}H NMR Spectroscopy of Compound **5j**



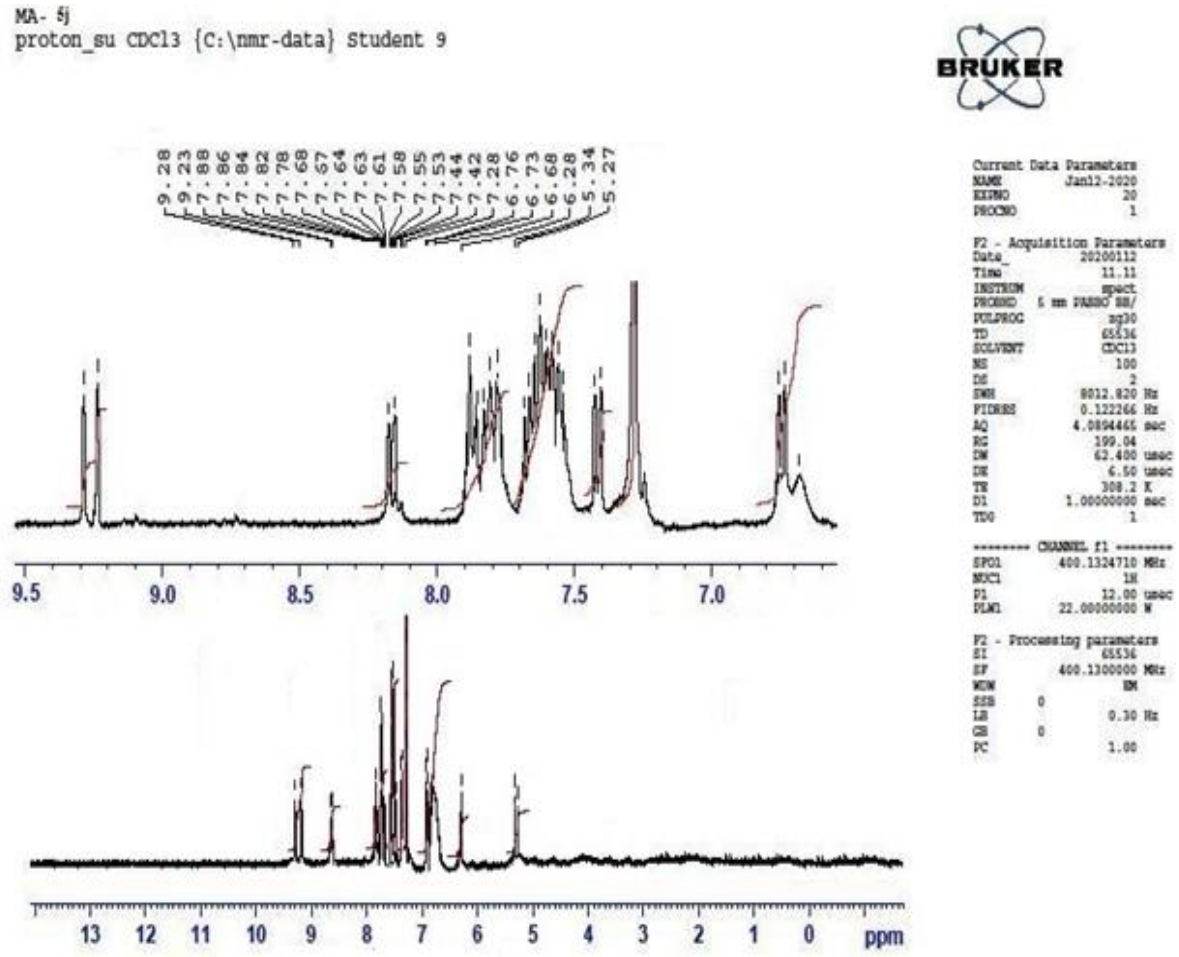
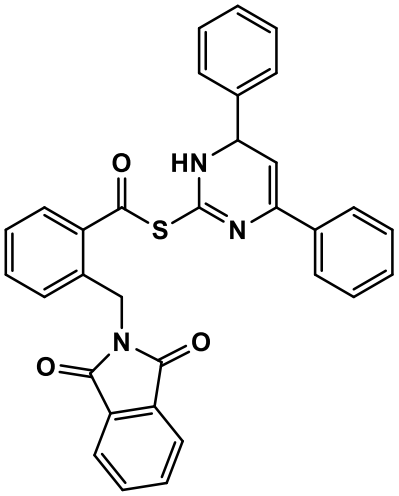


Figure S30: ^{1}H NMR Spectroscopy of Compound **10a**



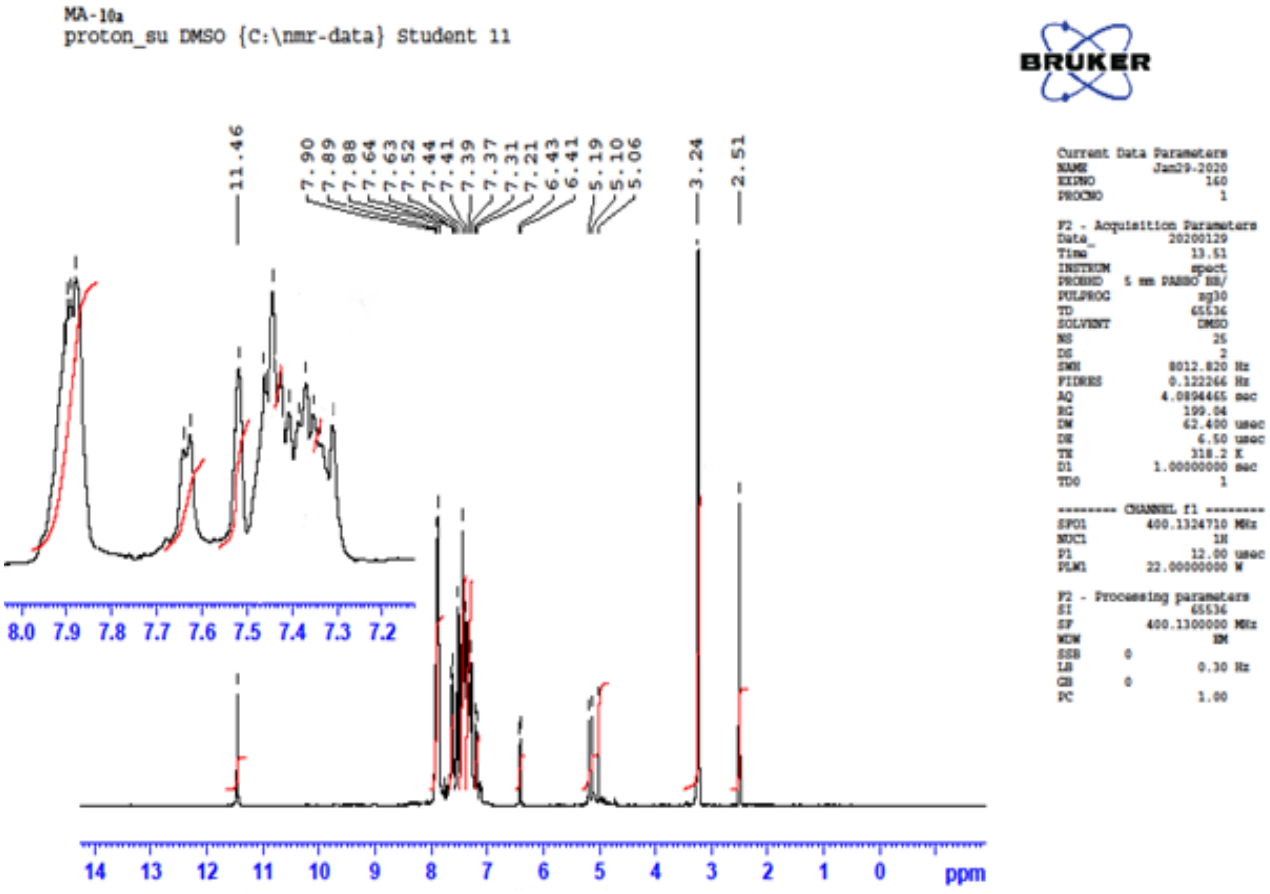
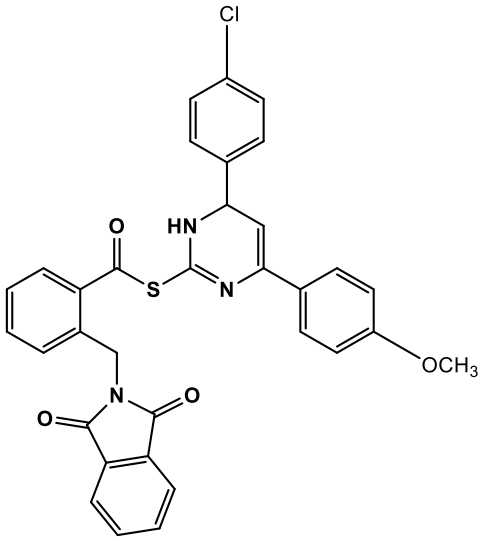


Figure S31: ^{1}H NMR Spectroscopy of Compound **10b**



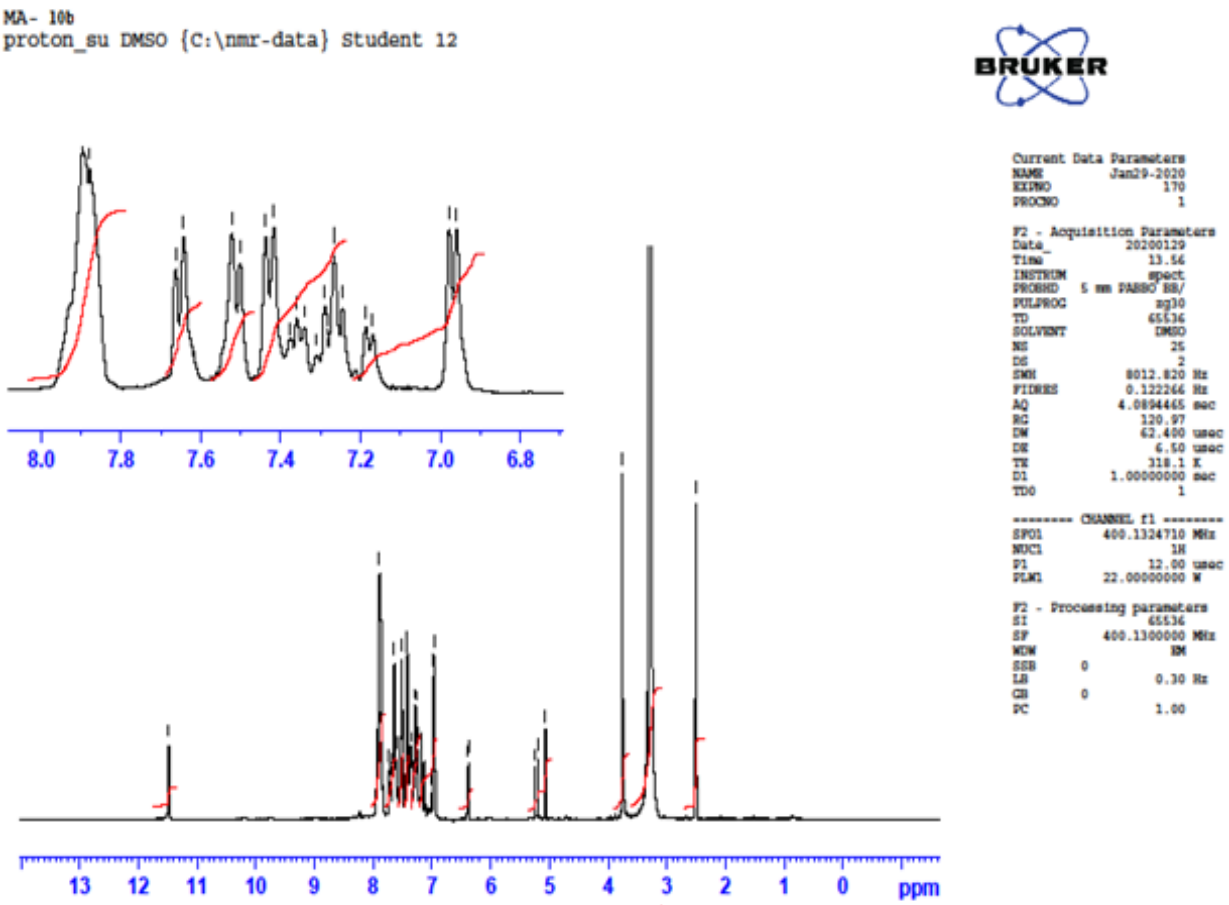


Figure S32: ^{1}H NMR Spectroscopy of Compound **10c**

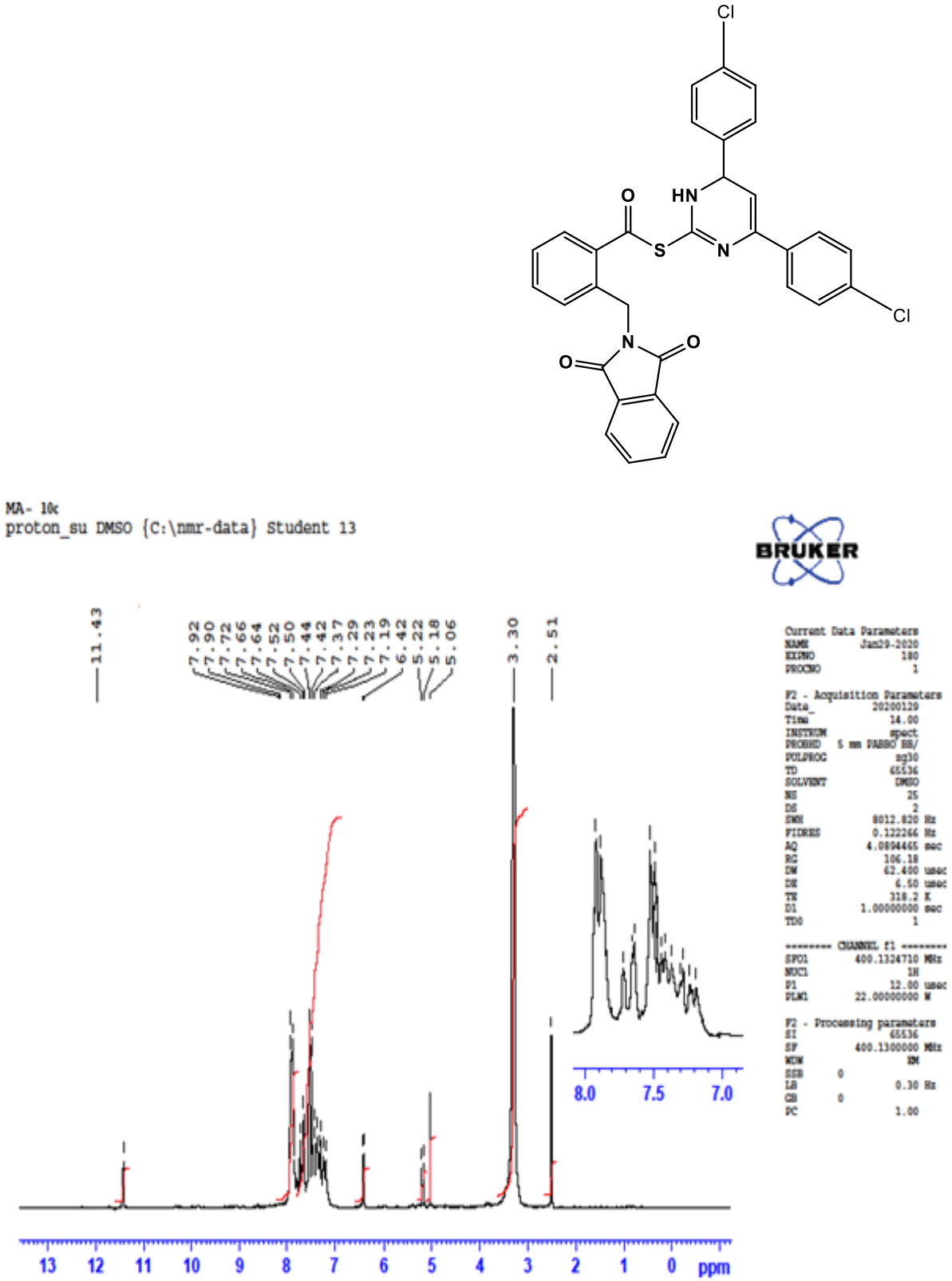
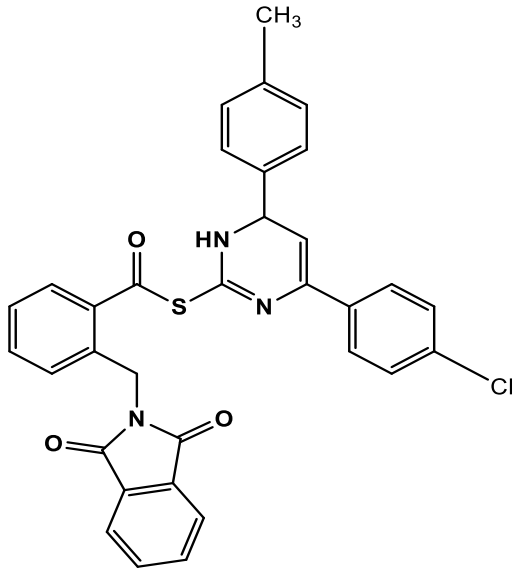


Figure S33: ^{1}H NMR Spectroscopy of Compound **10d**



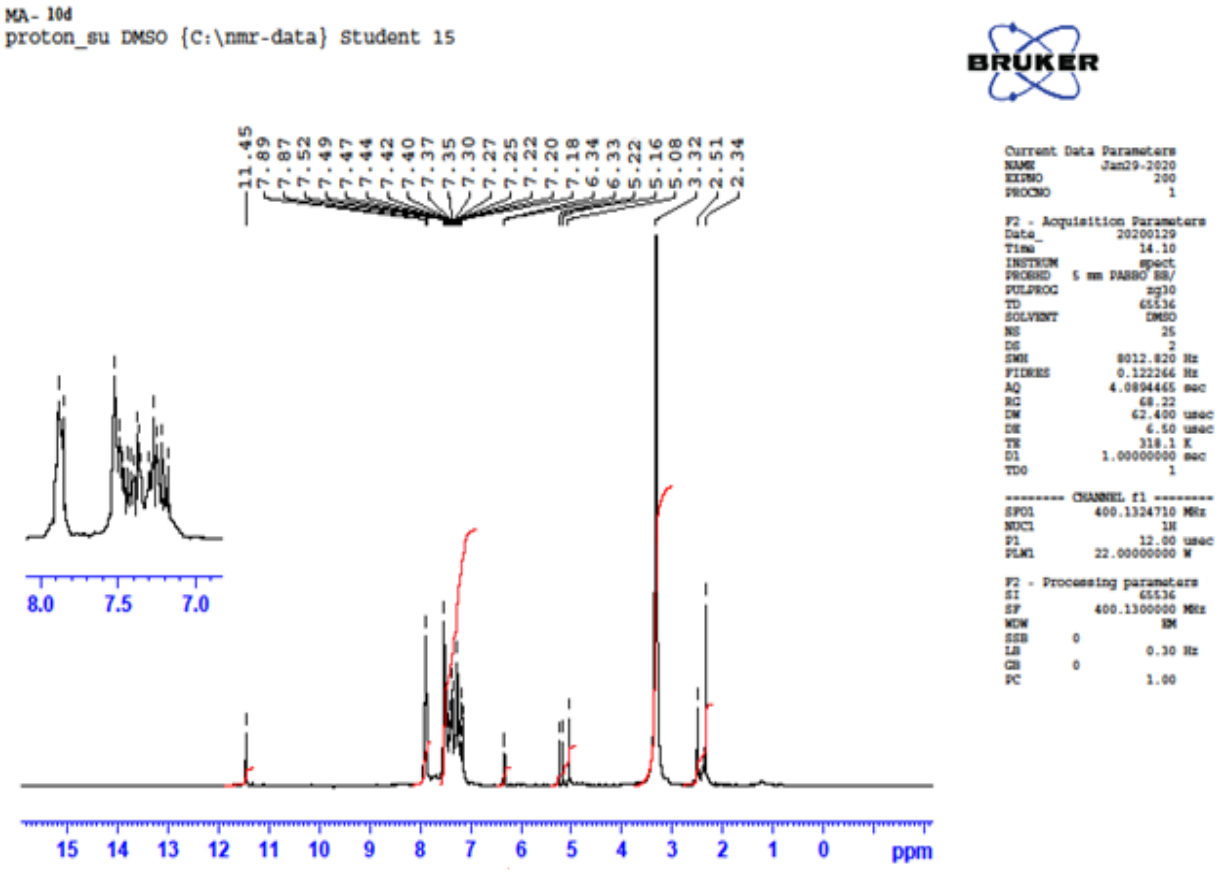
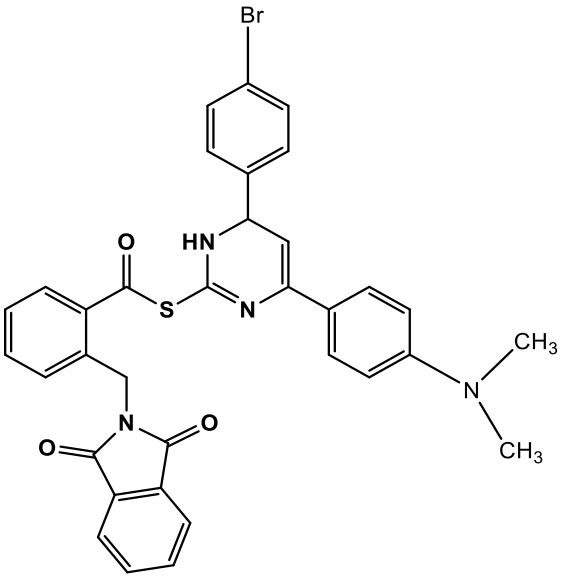


Figure S34: ^{1}H NMR Spectroscopy of Compound **10e**



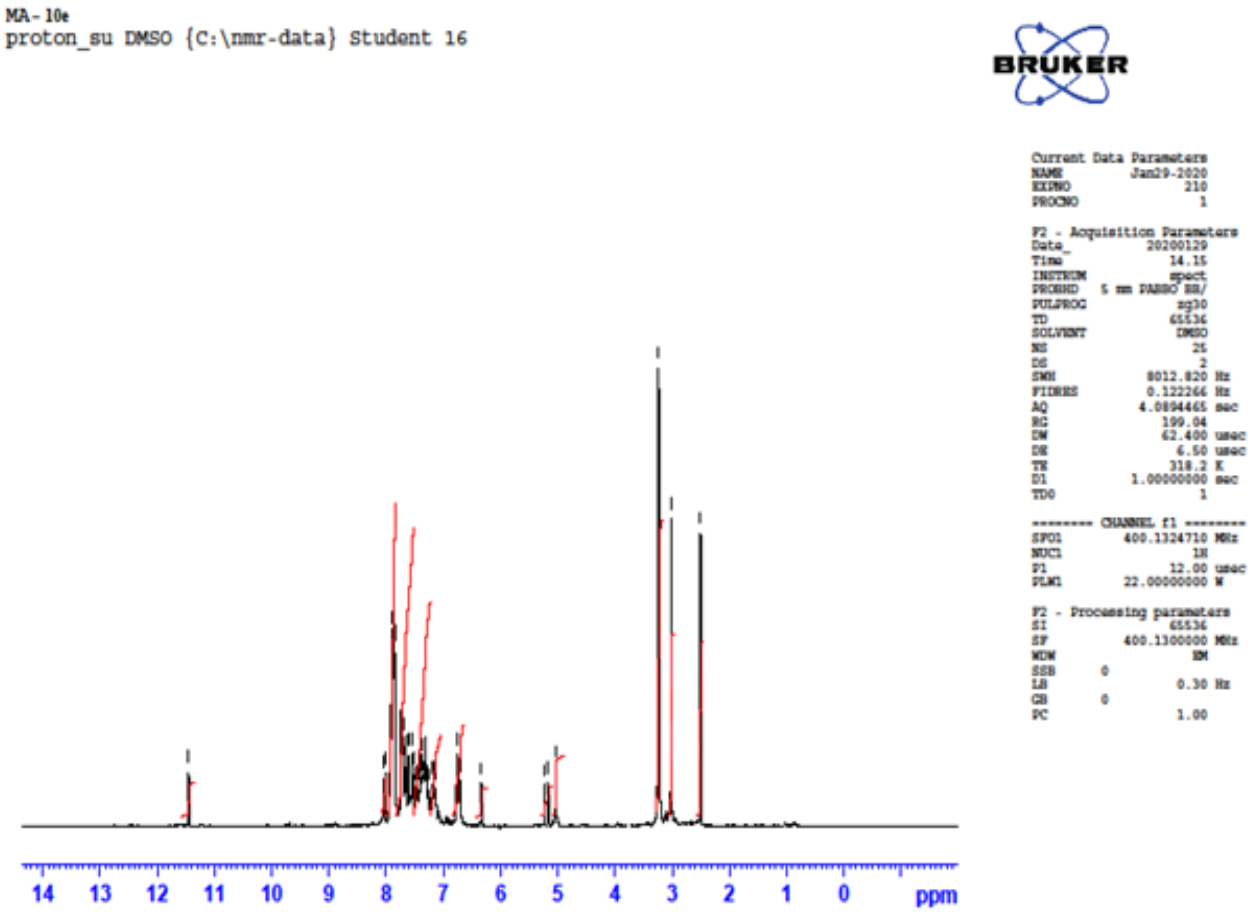


Figure S35: ^{1}H NMR Spectroscopy of Compound **10f**

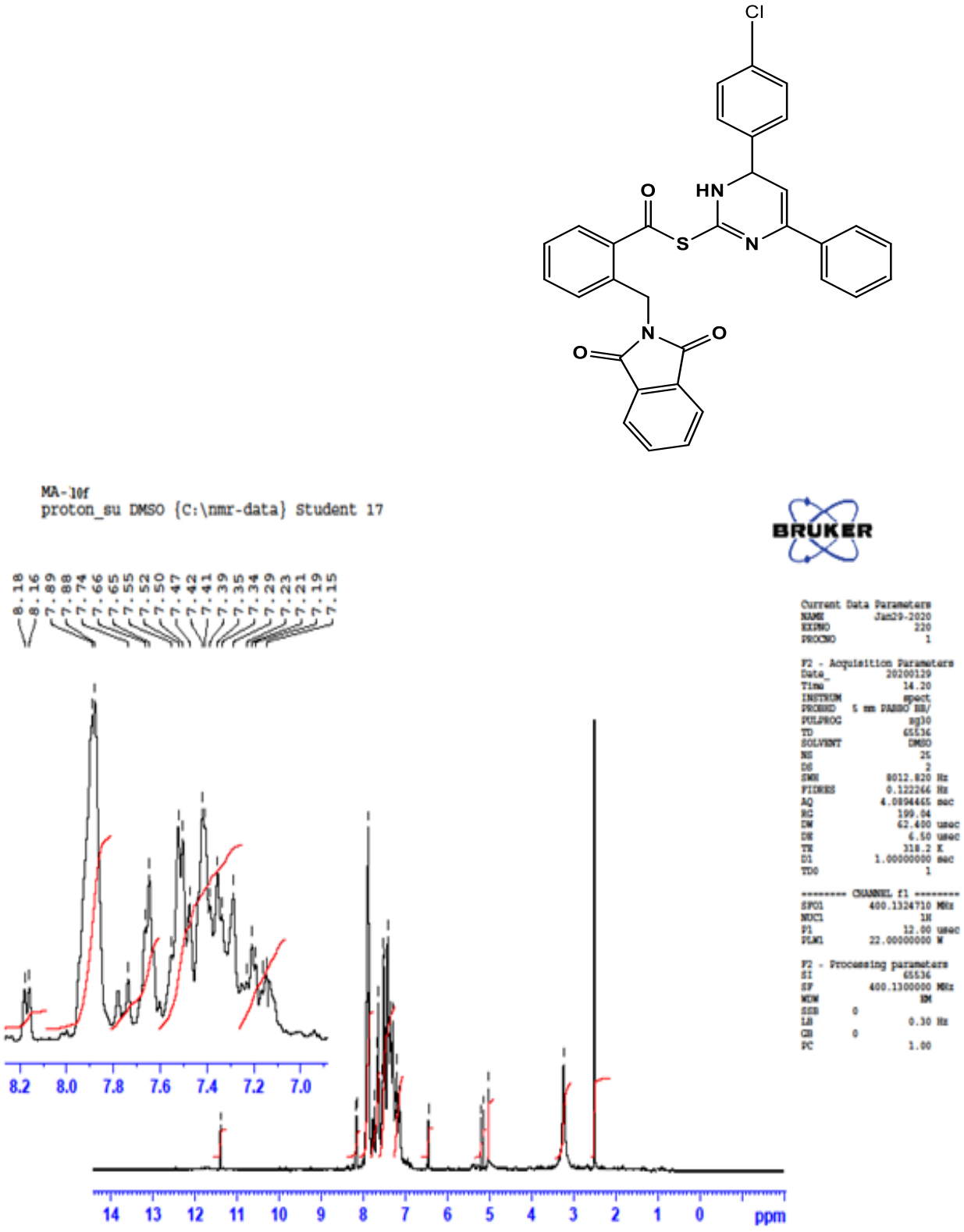


Figure S36: ^{1}H NMR Spectroscopy of Compound **10g**

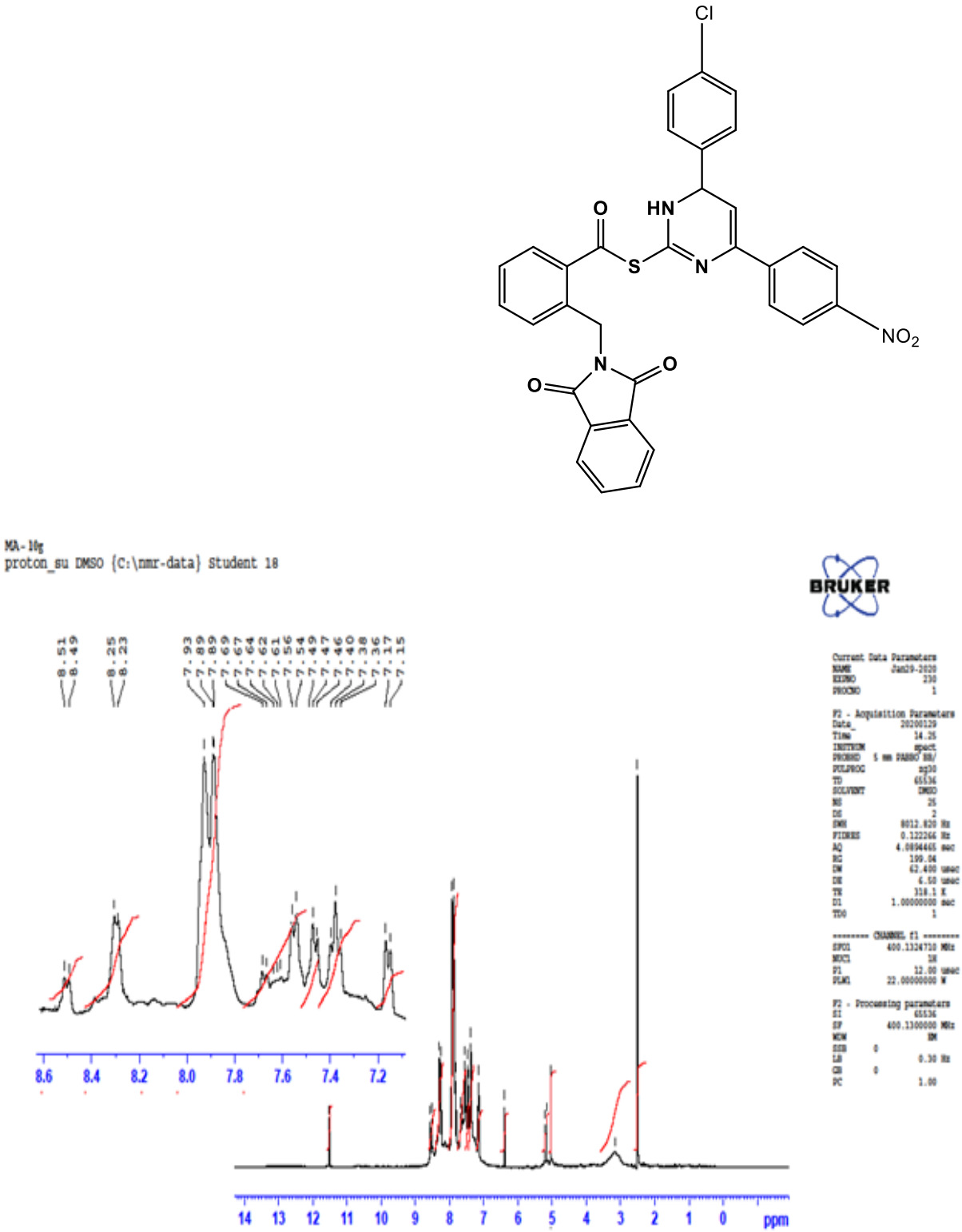
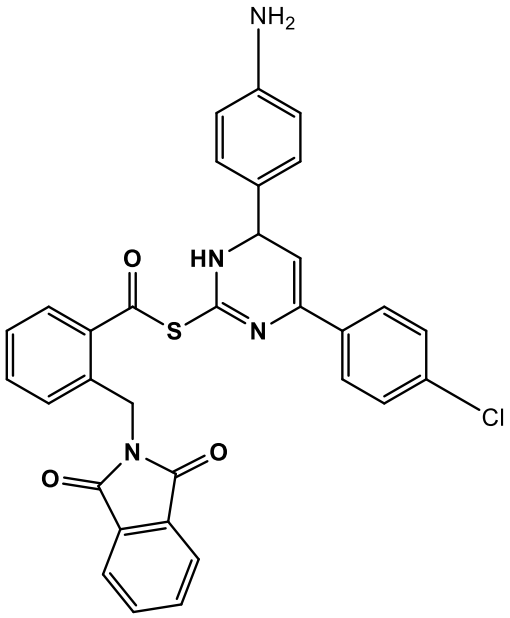


Figure S37: ^{1}H NMR Spectroscopy of Compound **10h**



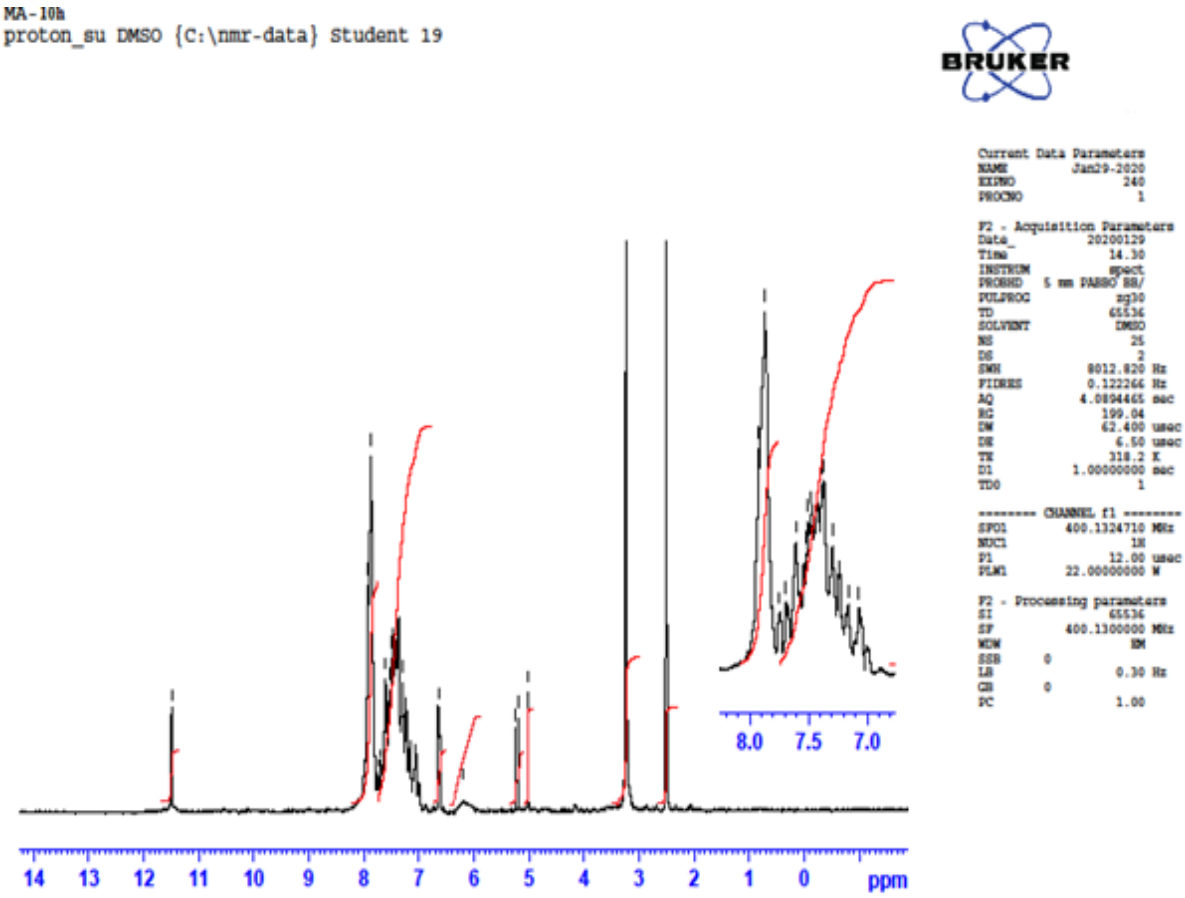


Figure S38: ^{1}H NMR Spectroscopy of Compound **10i**

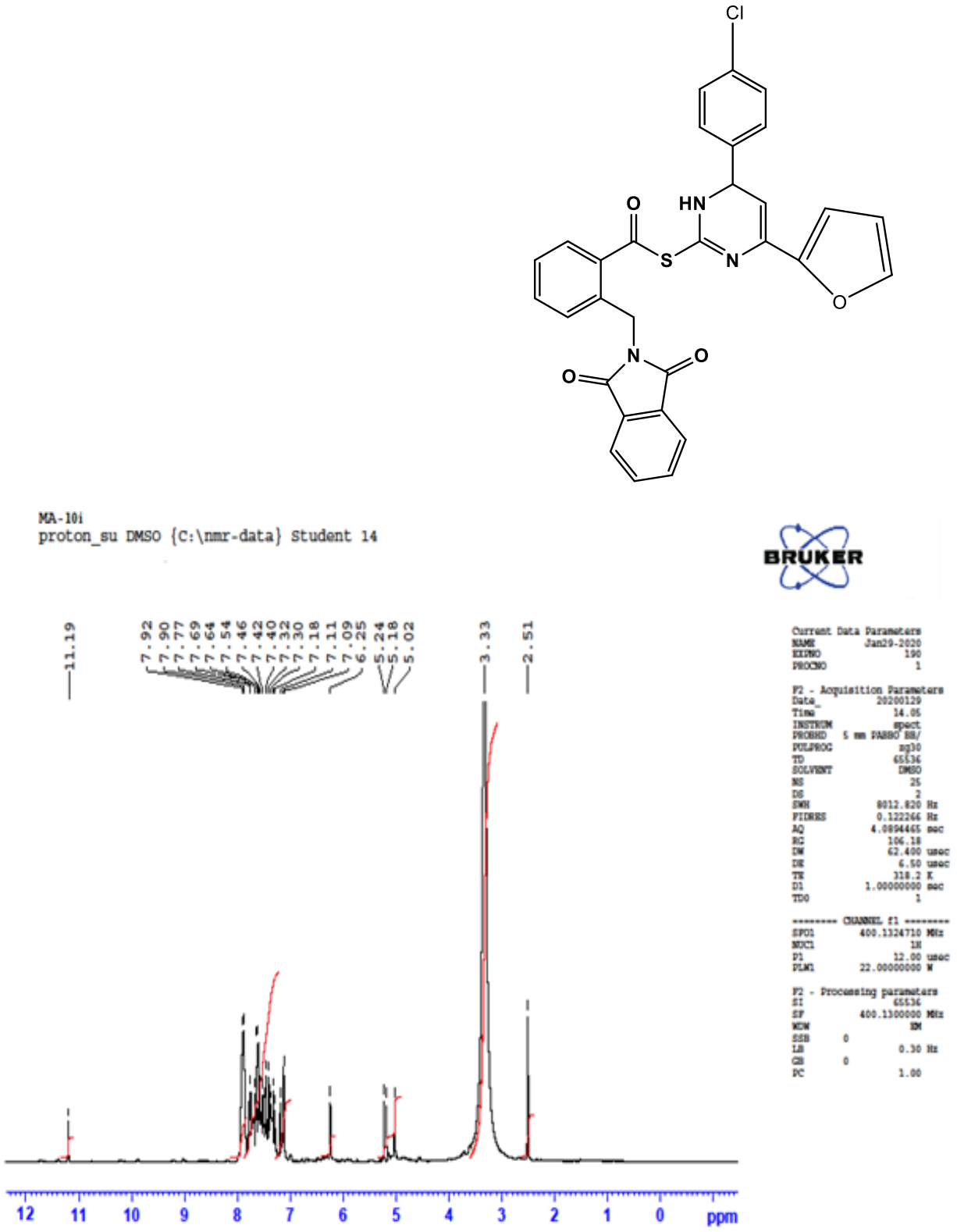
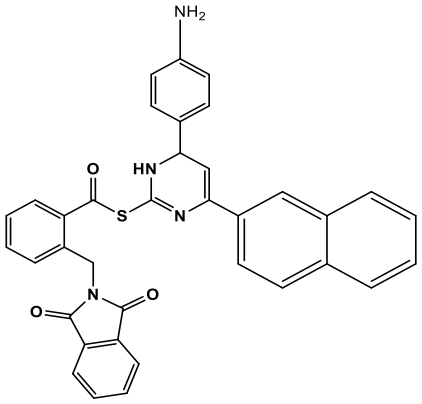
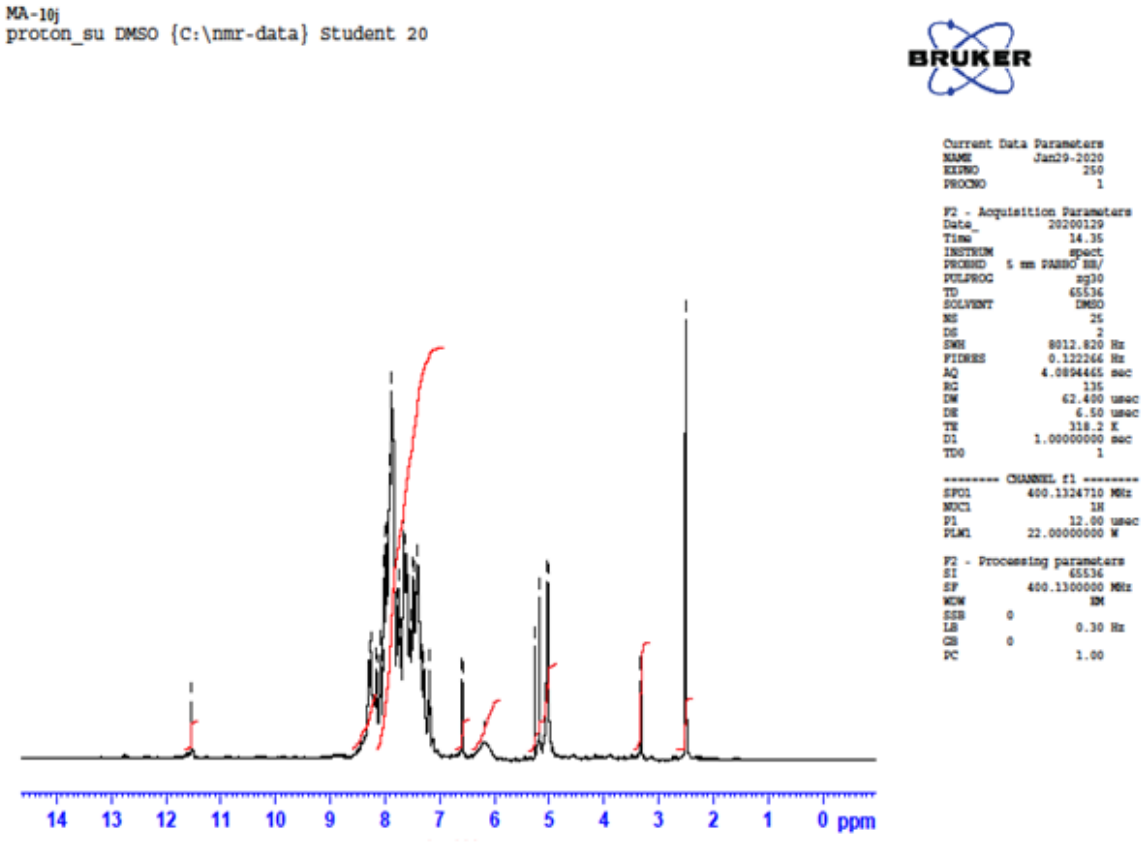


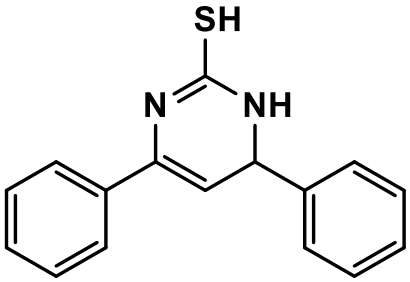
Figure S39: ^{1}H NMR Spectroscopy of Compound **10j**





^{13}C NMR Spectroscopy

Figure S40: ^{13}C NMR Spectroscopy of Compound **5a**



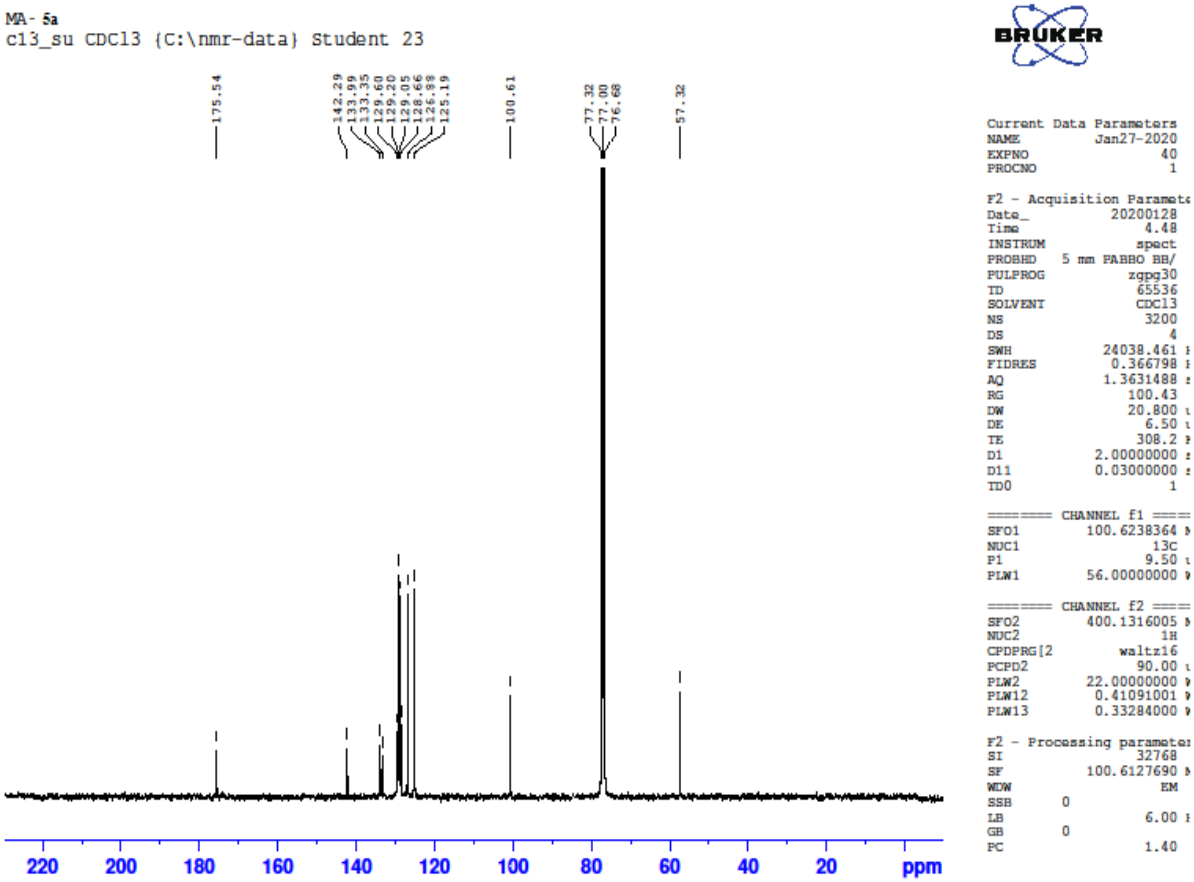
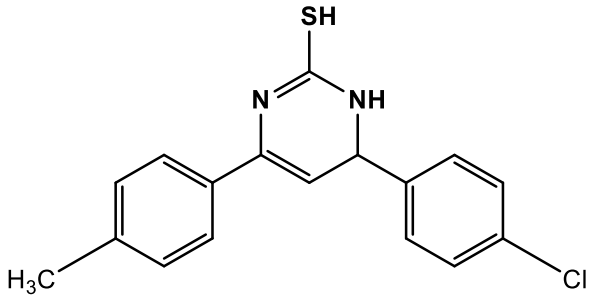


Figure S41: ^{13}C NMR Spectroscopy of Compound **5d**



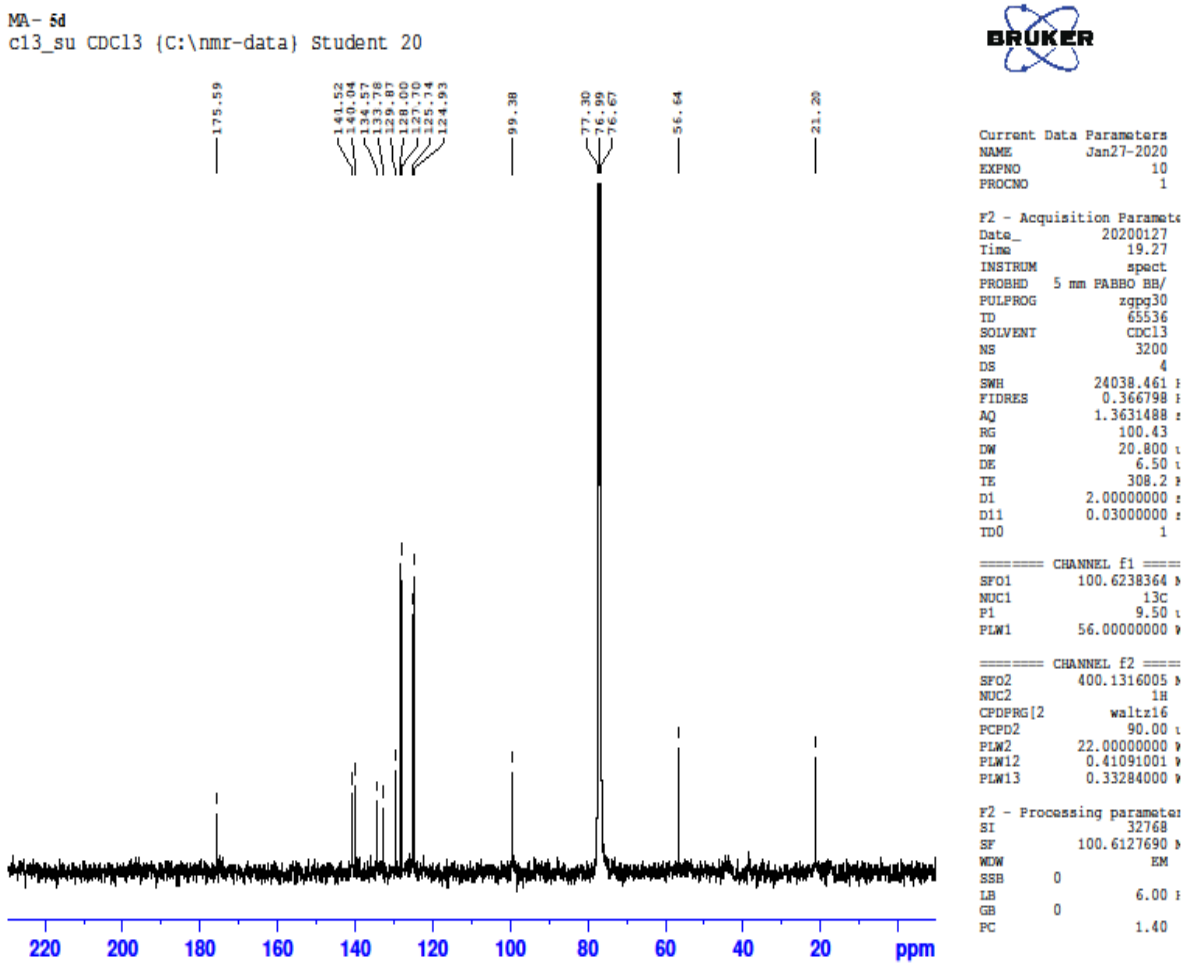
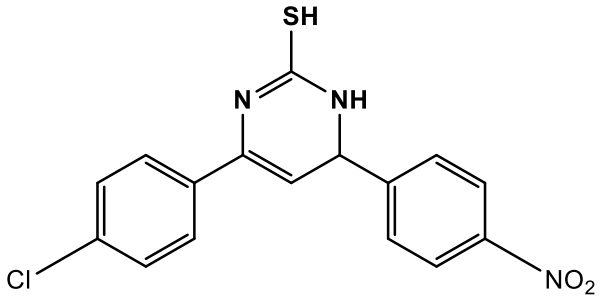


Figure S42: ^{13}C NMR Spectroscopy of Compound **5g**



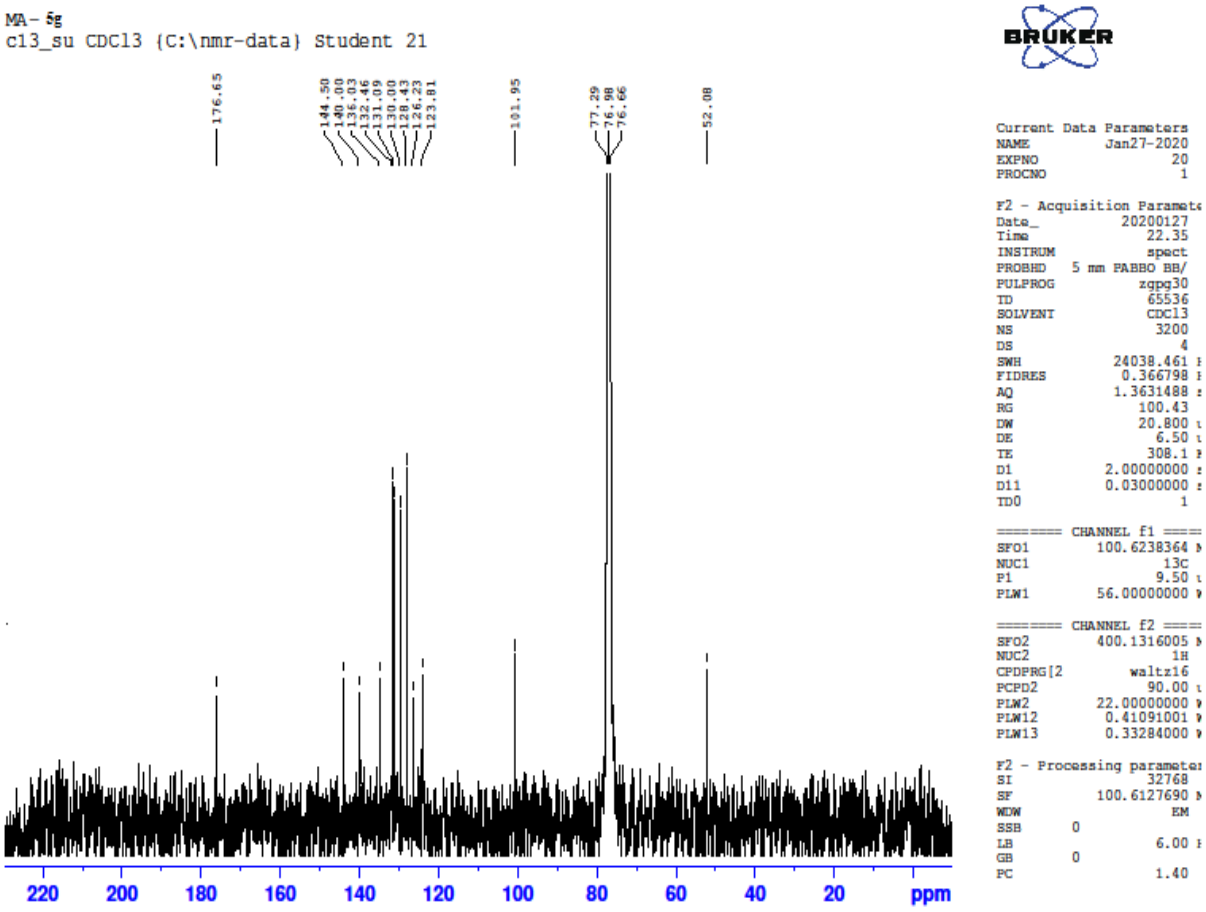
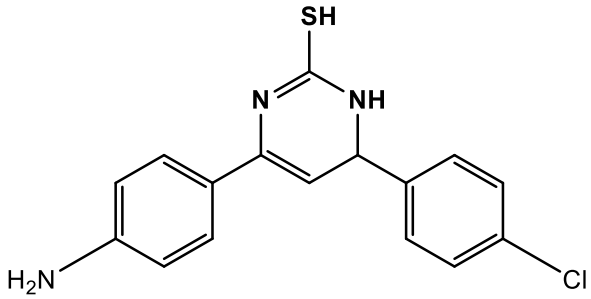


Figure S43: ^{13}C NMR Spectroscopy of Compound **5h**



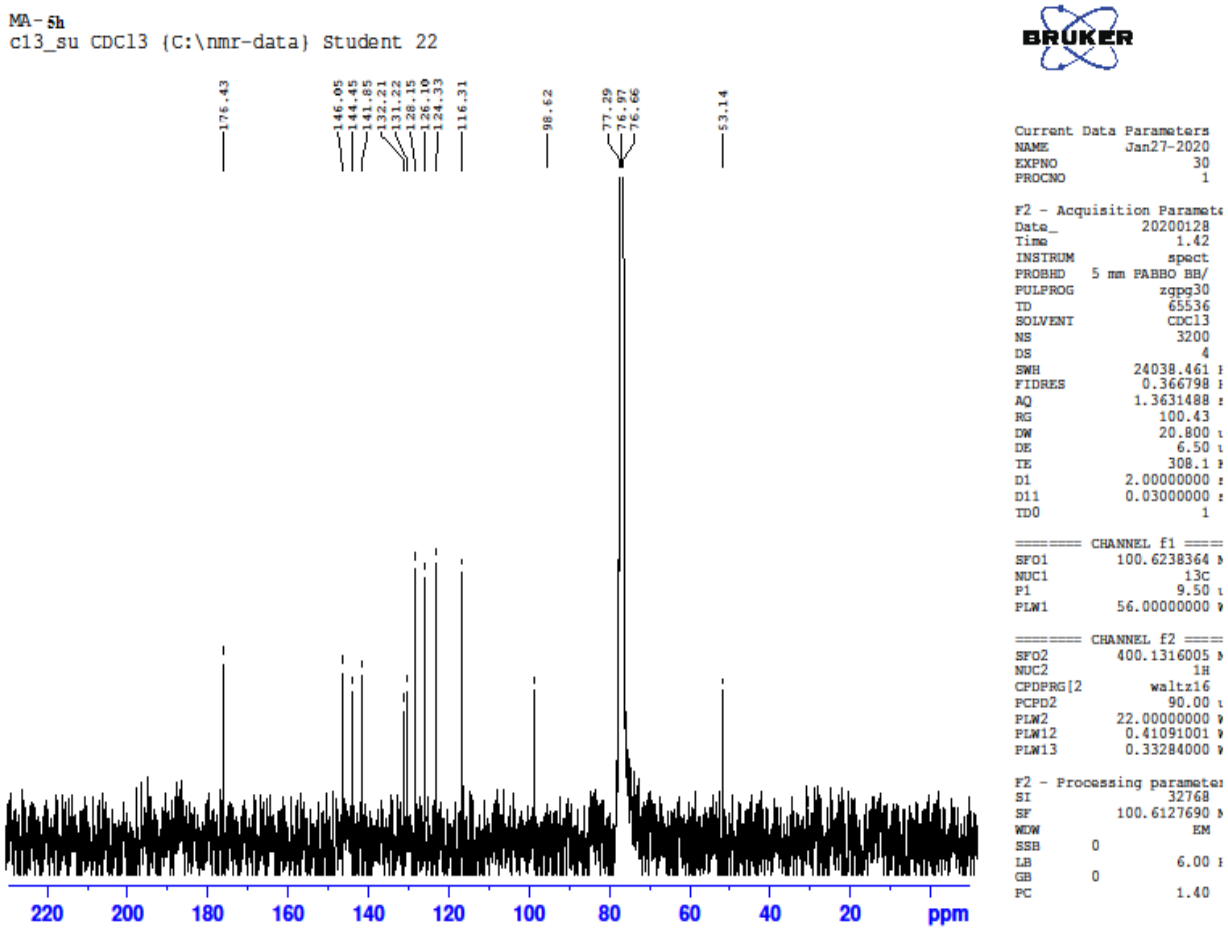
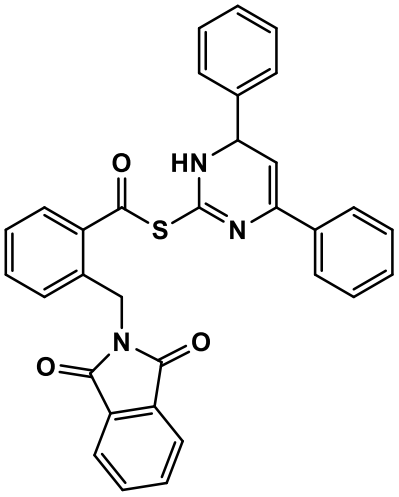


Figure S44: ^{13}C NMR Spectroscopy of Compound **10a**



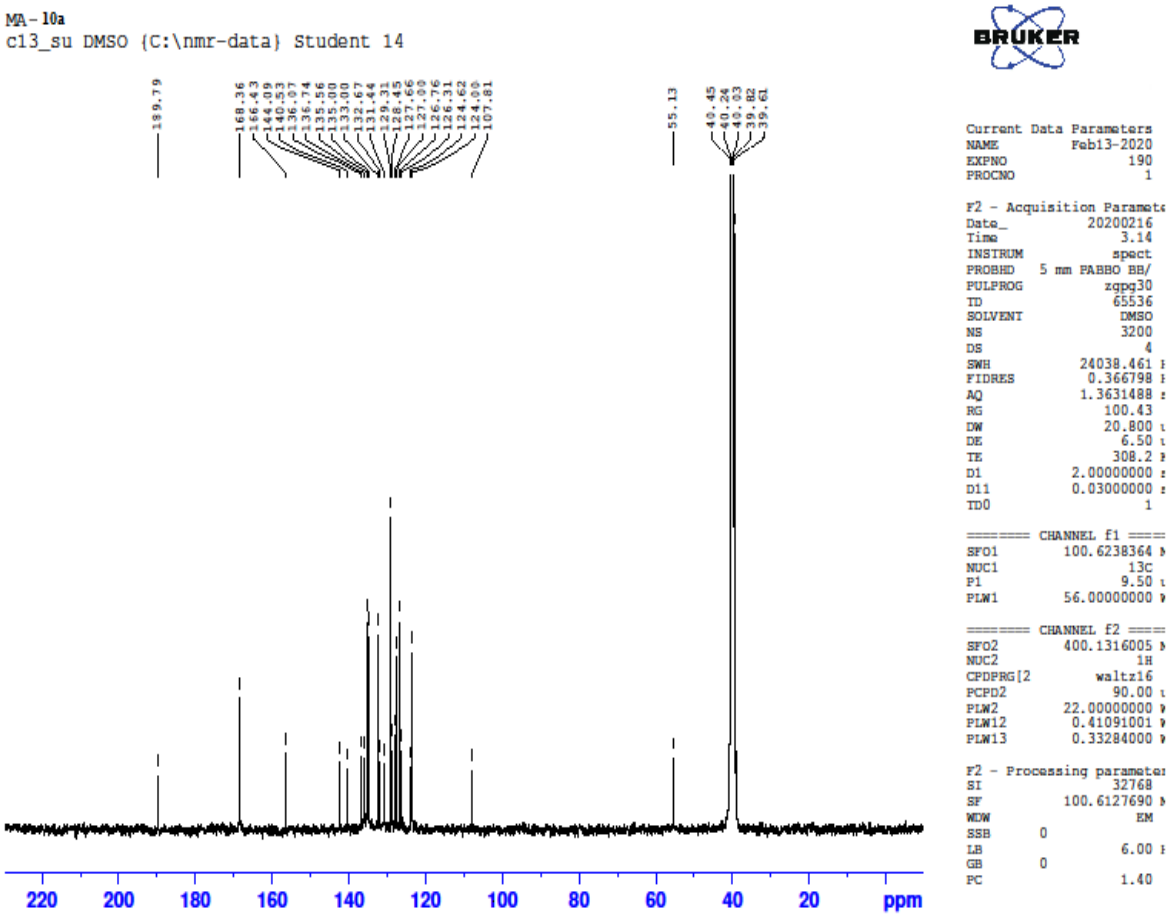


Figure S45: ^{13}C NMR Spectroscopy of Compound **10b**

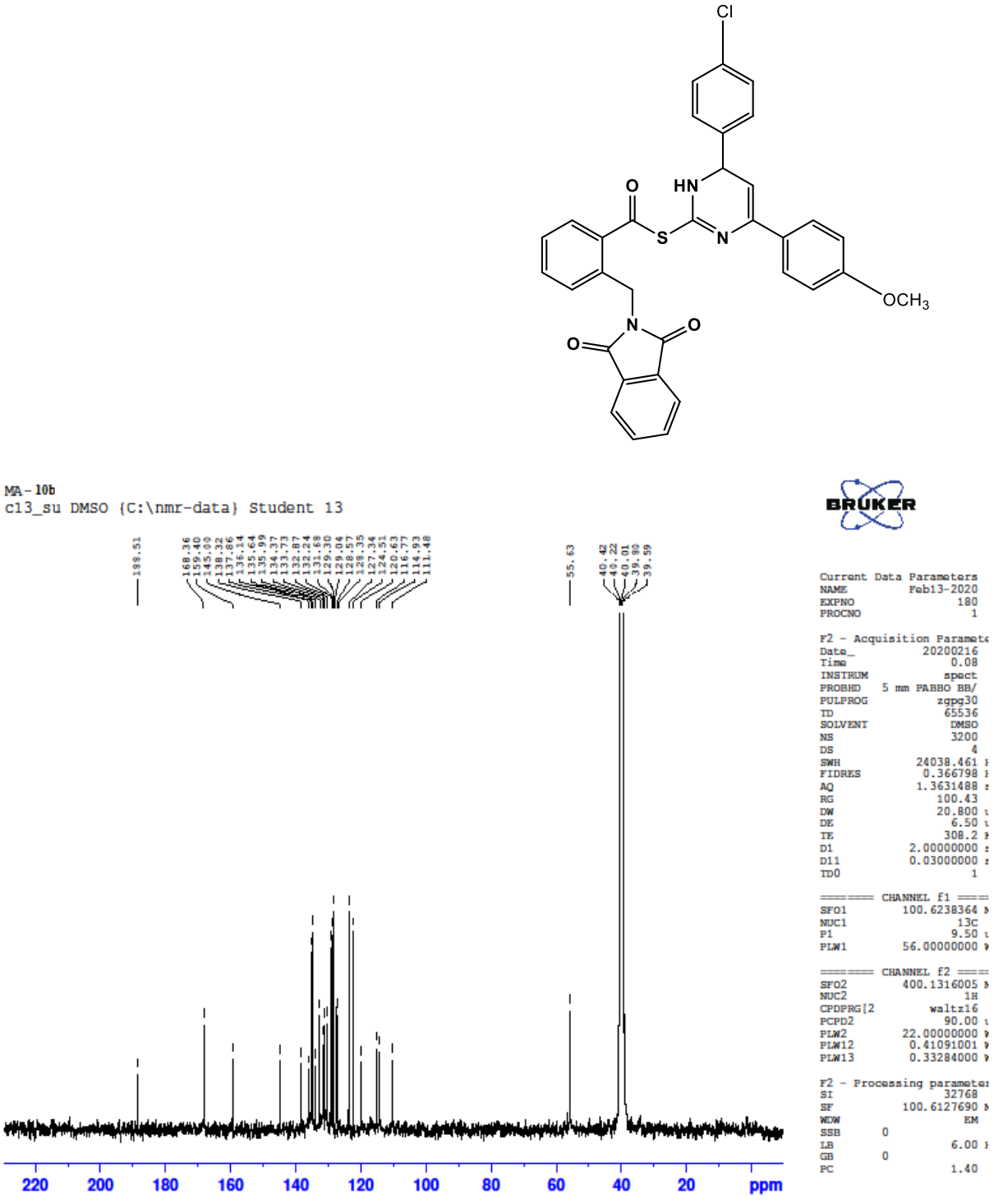


Figure S46: ^{13}C NMR Spectroscopy of Compound **10d**

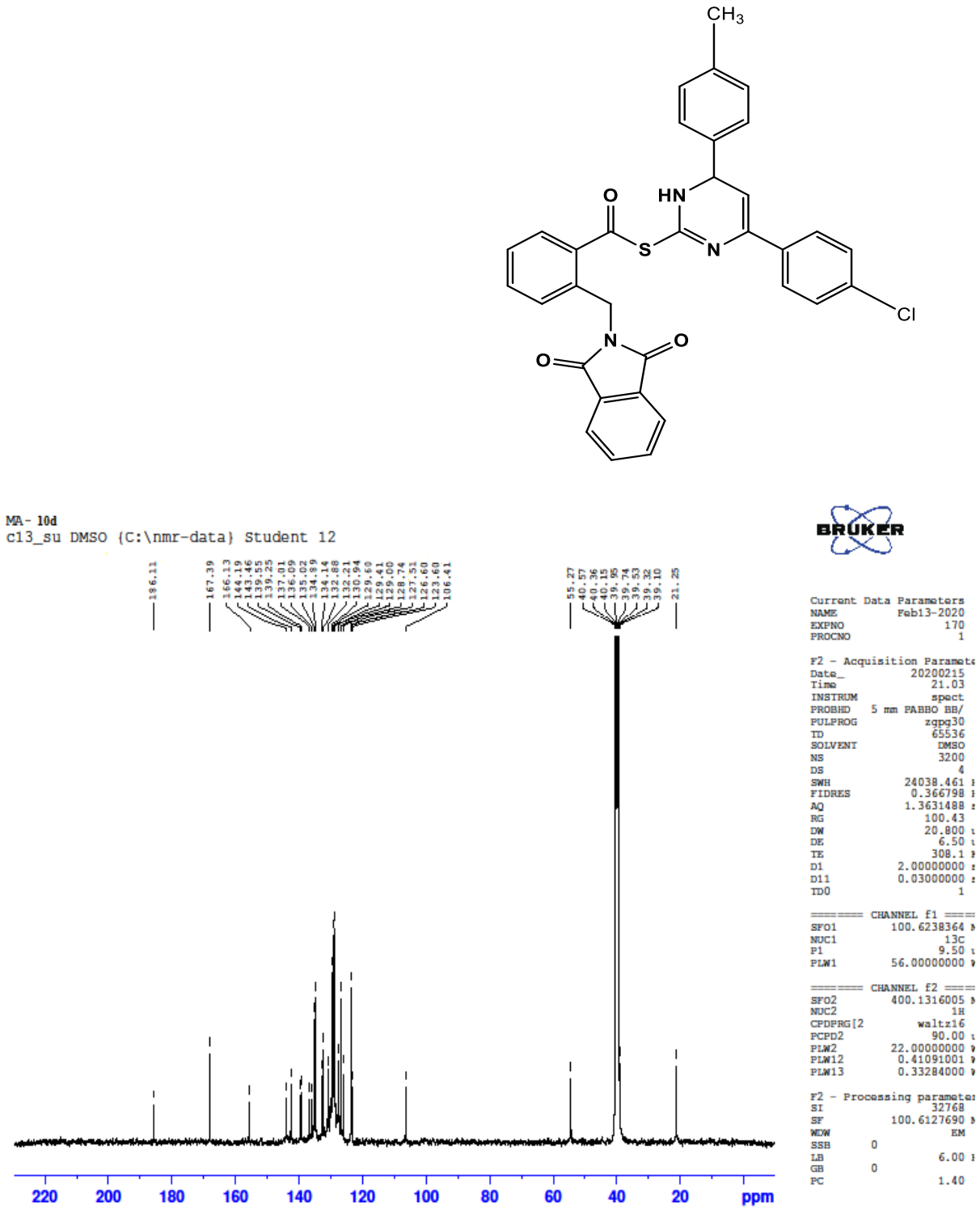
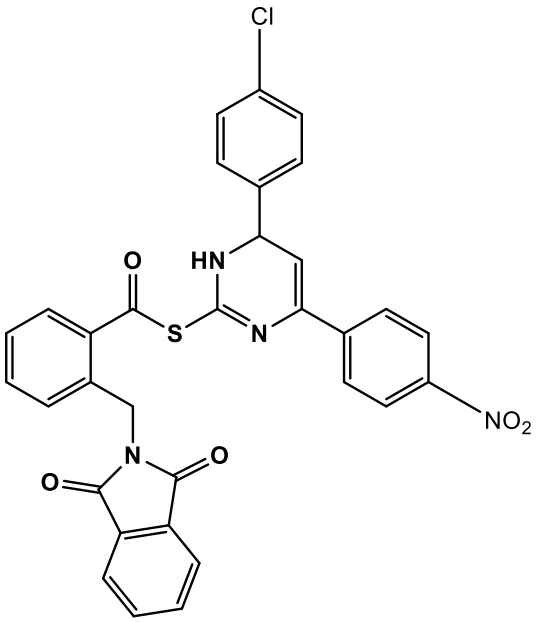


Figure S47: ^{13}C NMR Spectroscopy of Compound **10g**



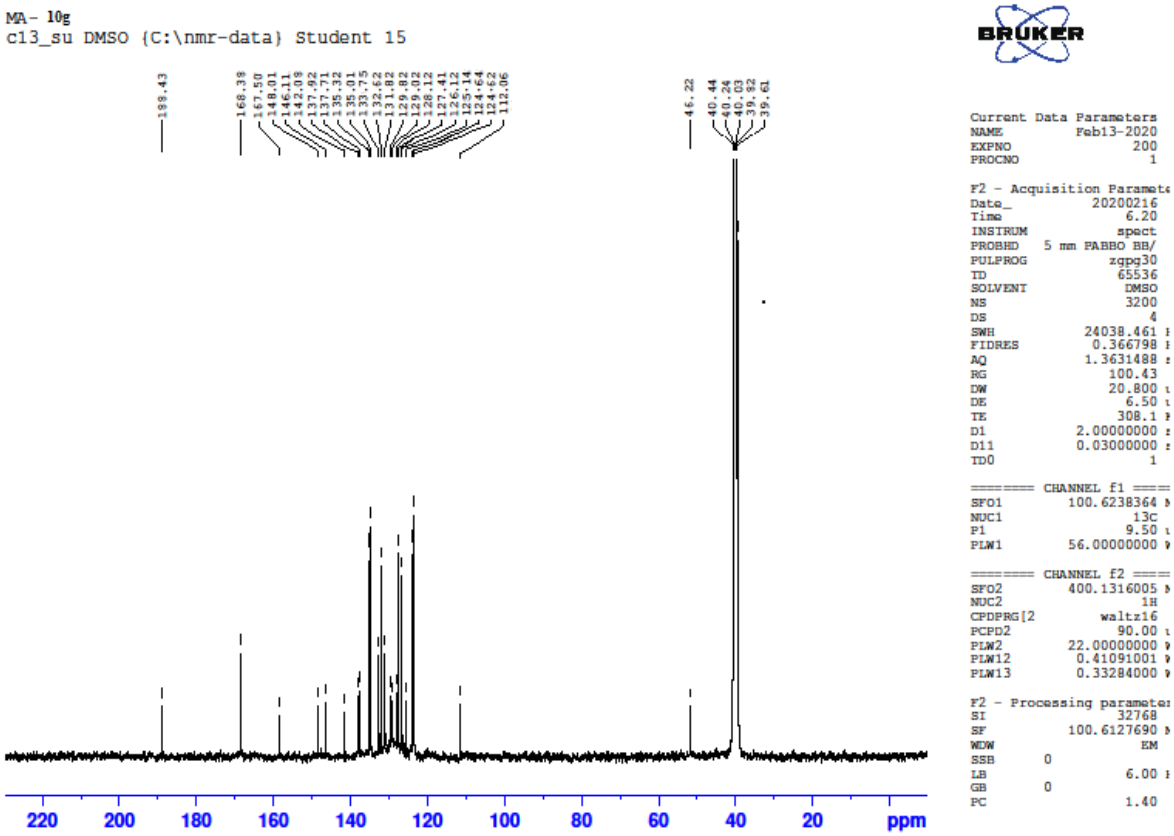
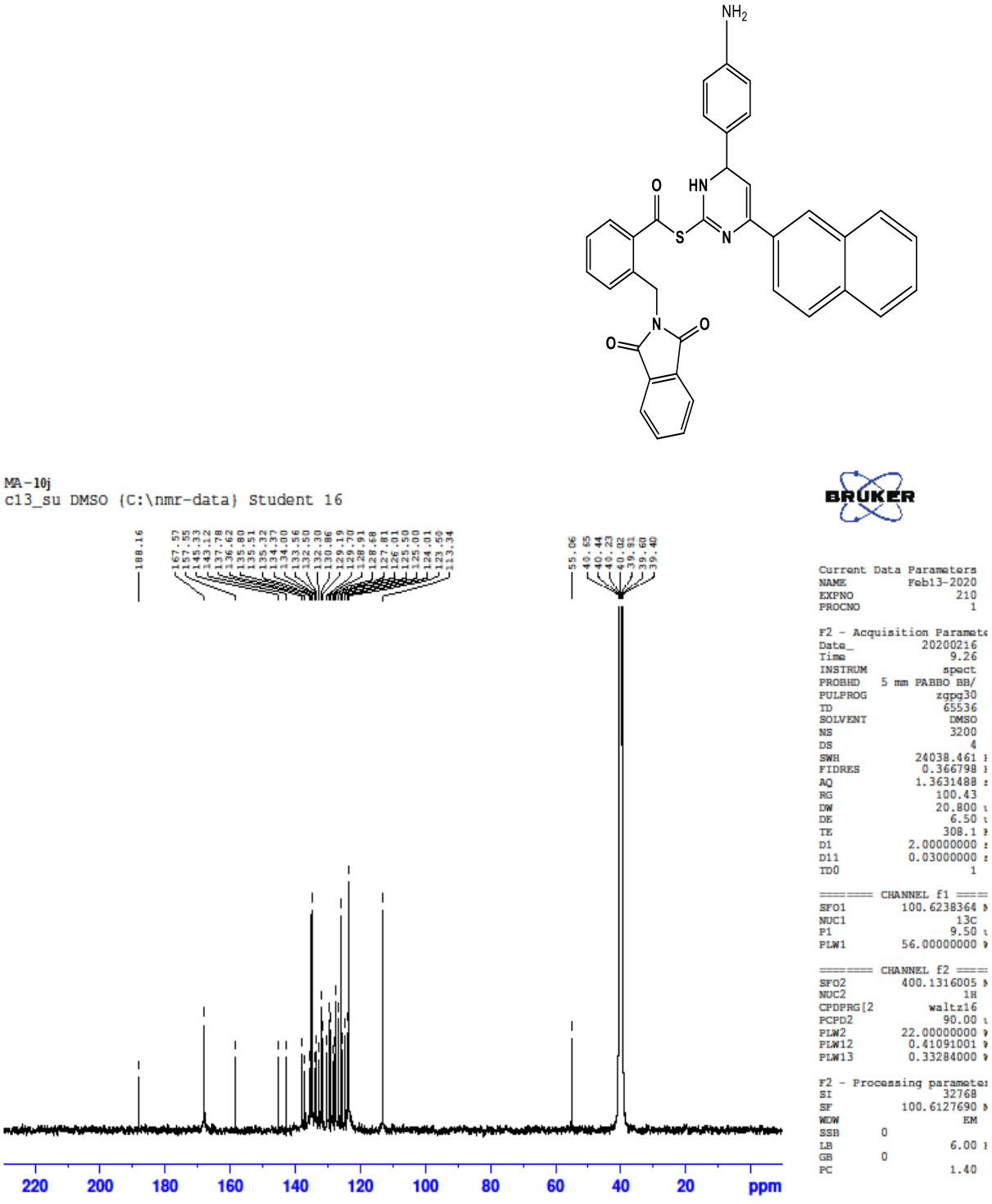
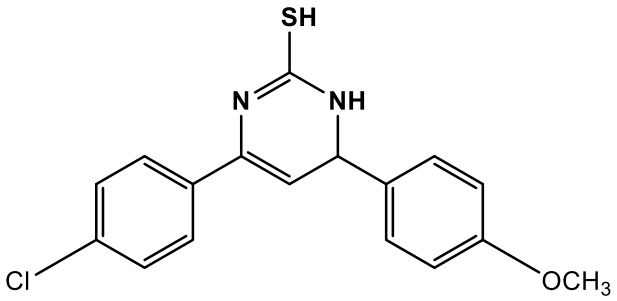


Figure S48: ^{13}C NMR Spectroscopy of Compound **10j**



Mass Spectroscopy

Figure S49: Mass Spectroscopy of Compound **5b**



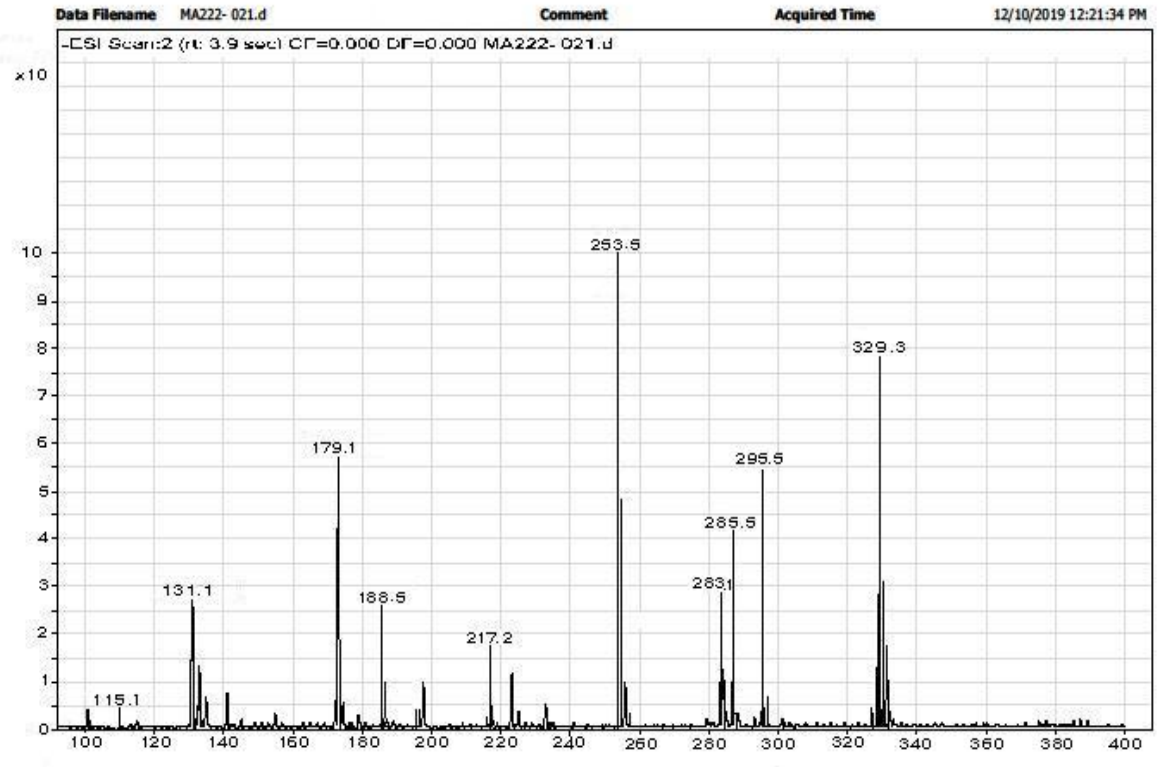
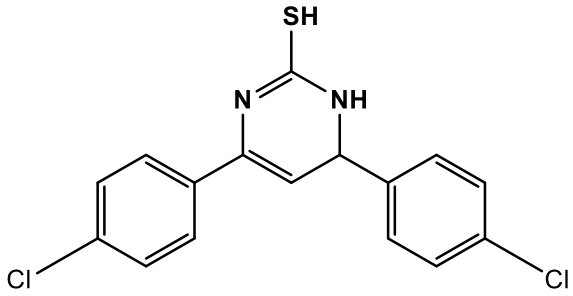


Figure S50: Mass Spectroscopy of Compound **5c**



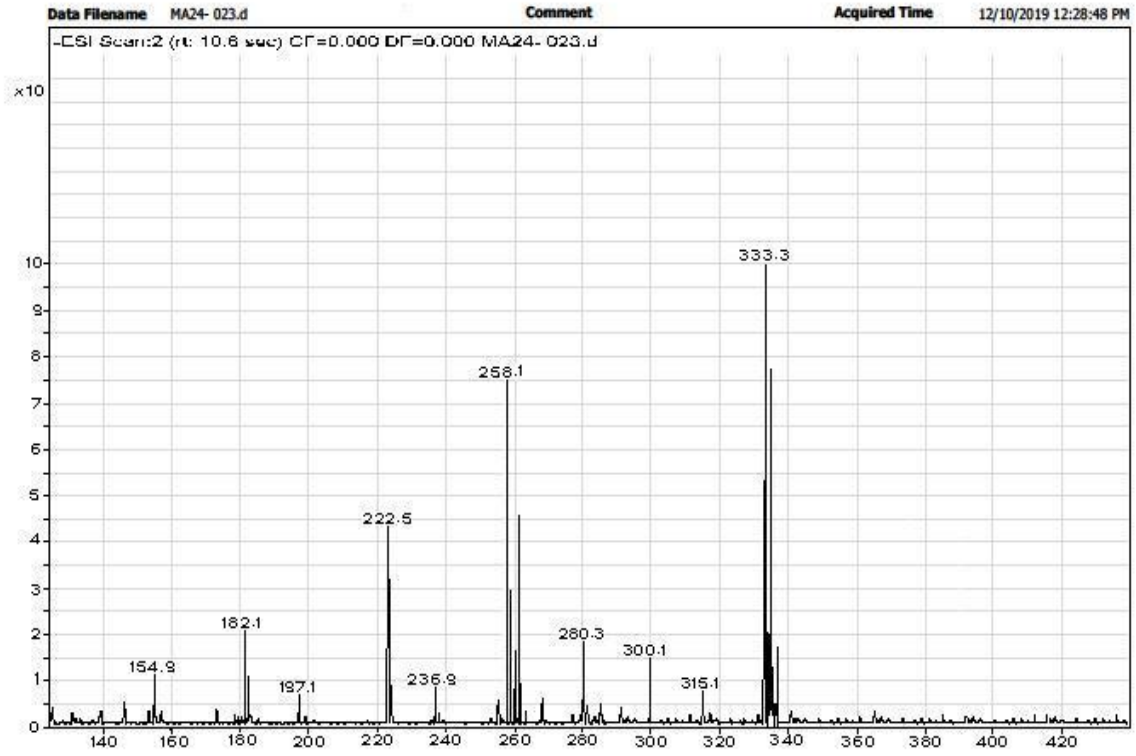
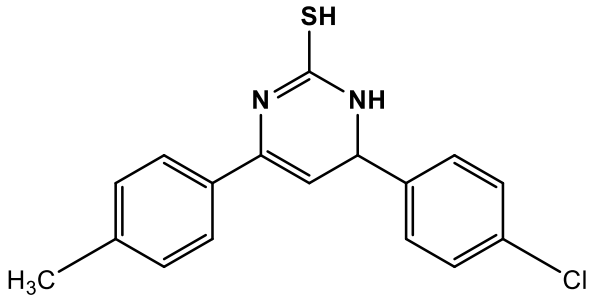


Figure S51: Mass Spectroscopy of Compound **5d**



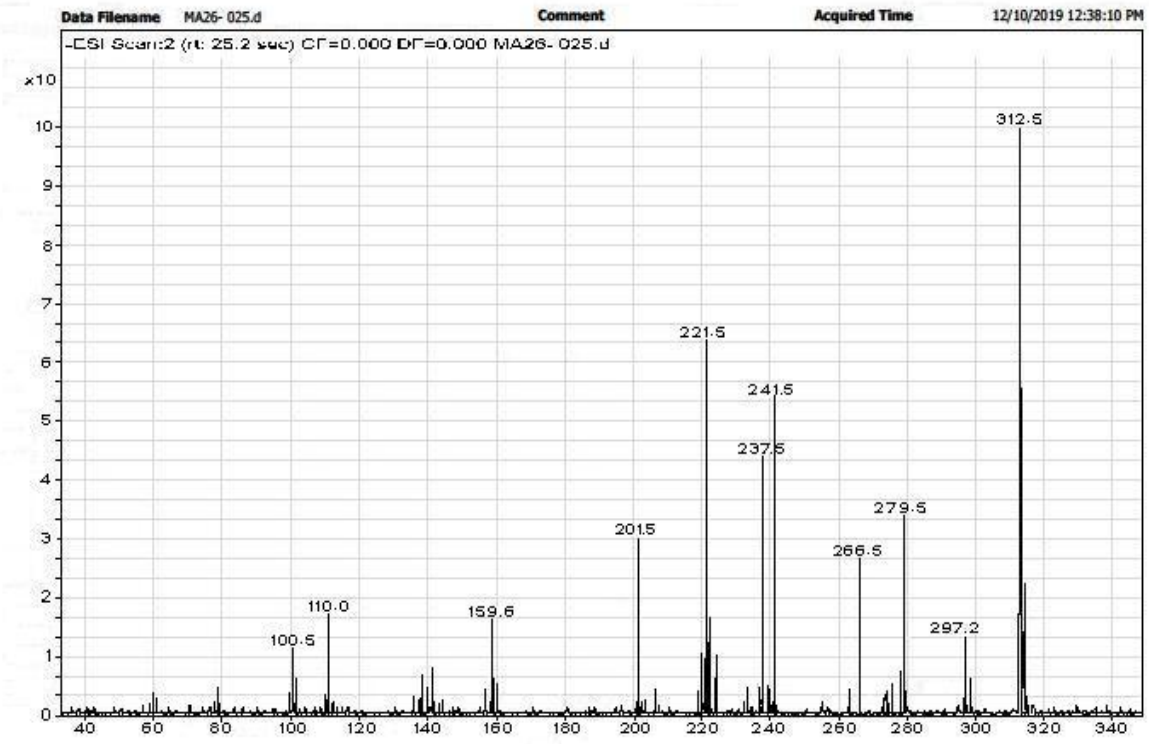
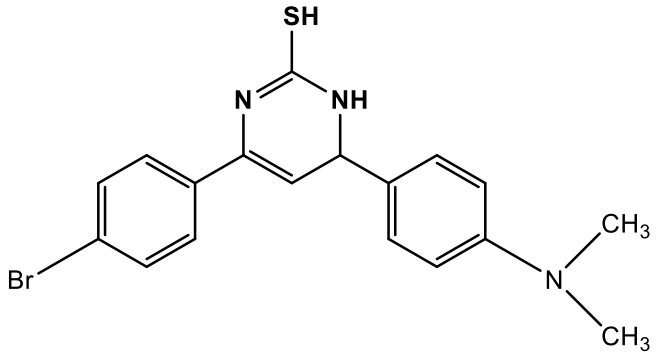


Figure S52: Mass Spectroscopy of Compound **5e**



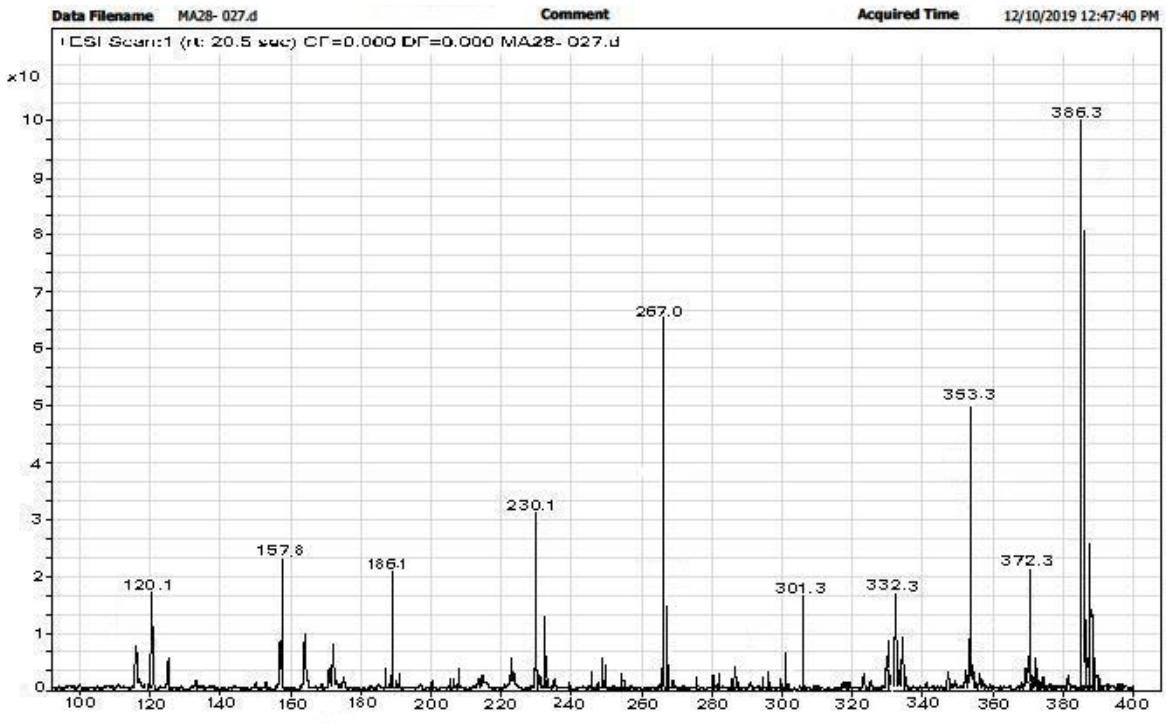
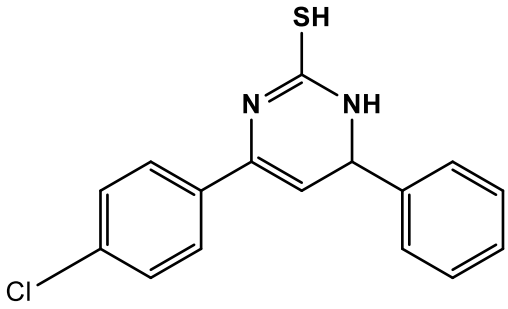


Figure S53: Mass Spectroscopy of Compound **5f**



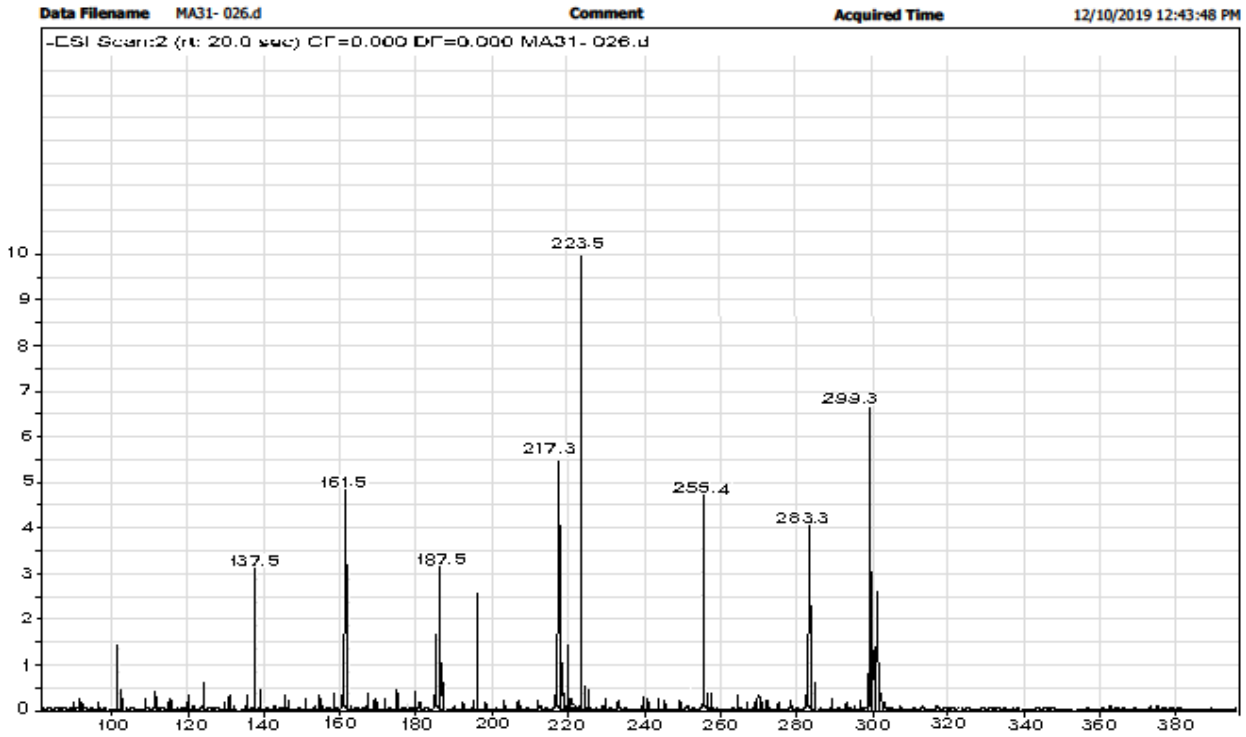
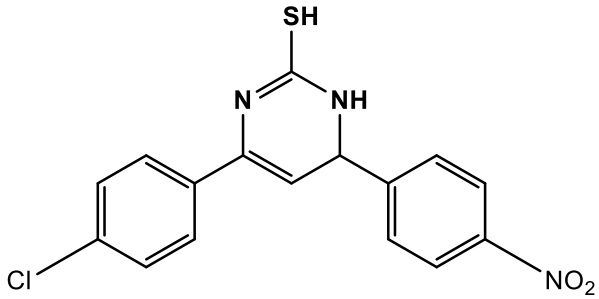


Figure S54: Mass Spectroscopy of Compound **5g**



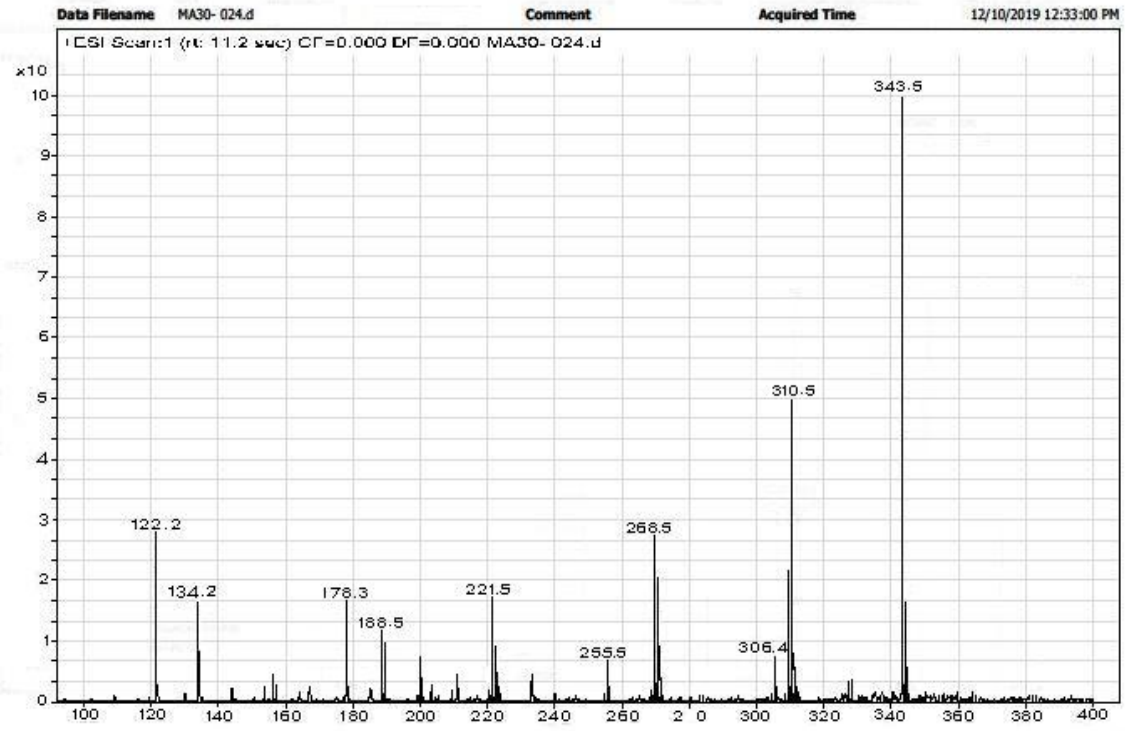
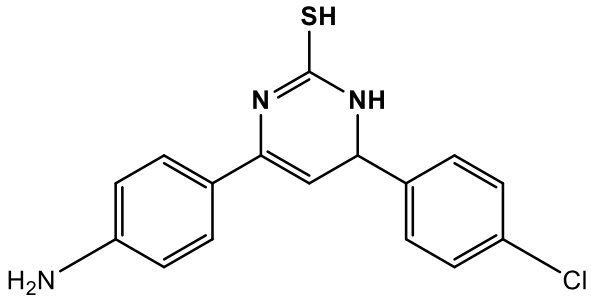


Figure S55: Mass Spectroscopy of Compound **5h**



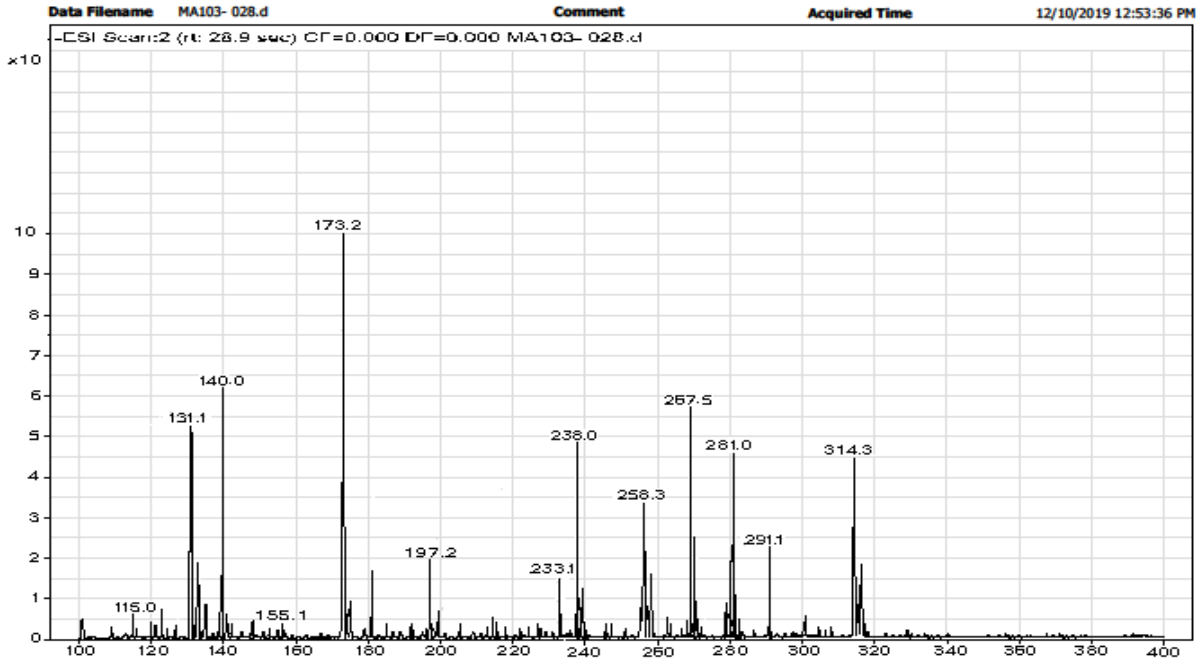
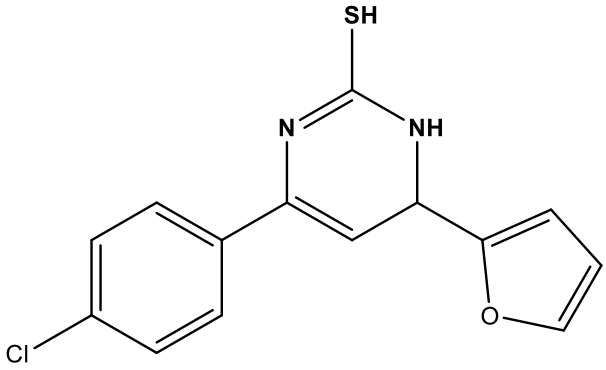


Figure S56: Mass Spectroscopy of Compound **5i**



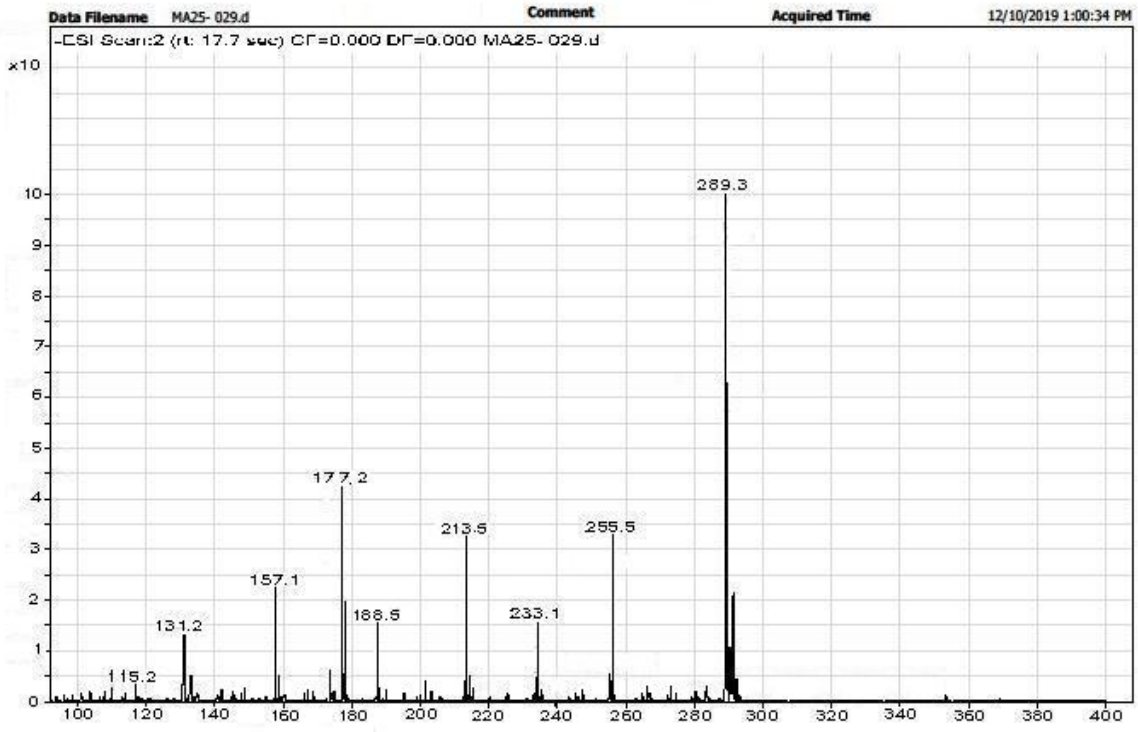
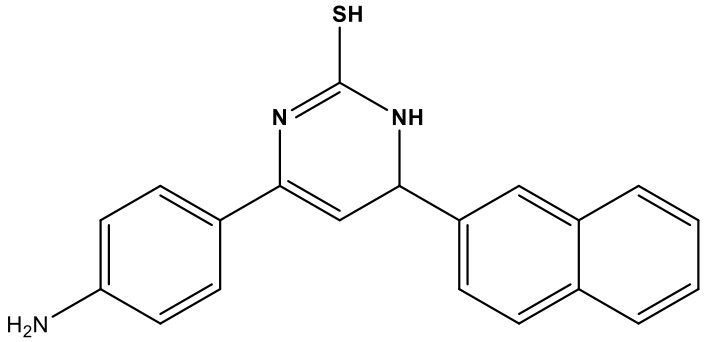


Figure S57: Mass Spectroscopy of Compound **5j**



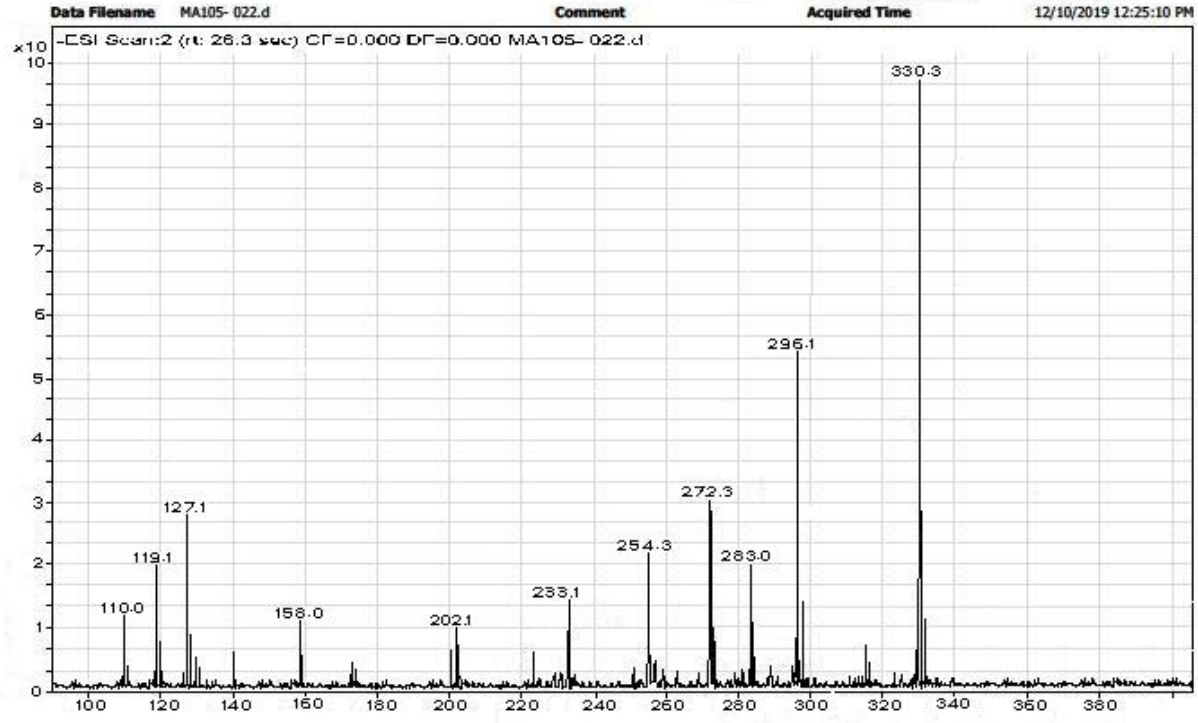
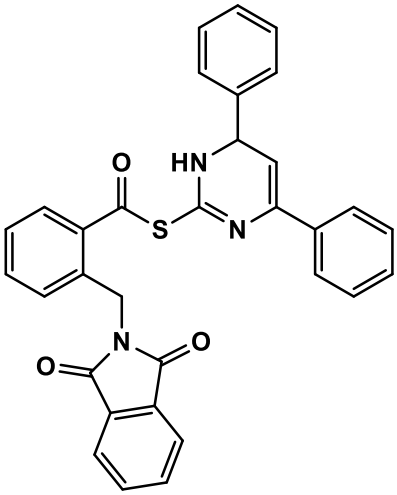


Figure S58: Mass Spectroscopy of Compound **10a**



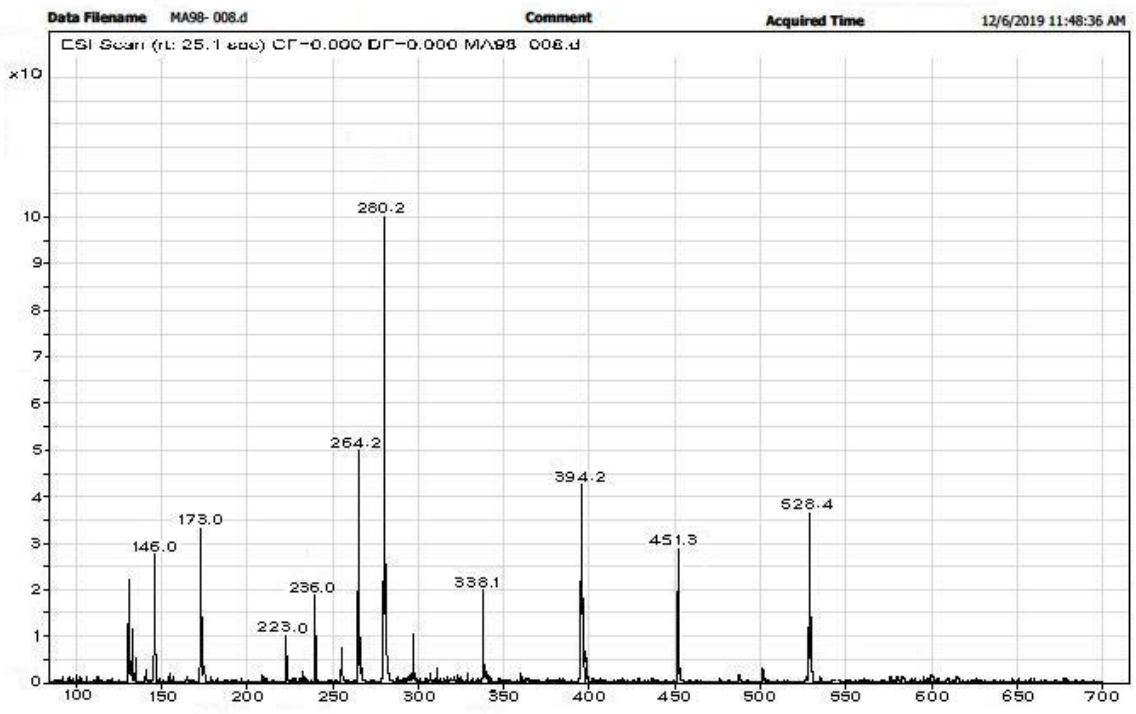
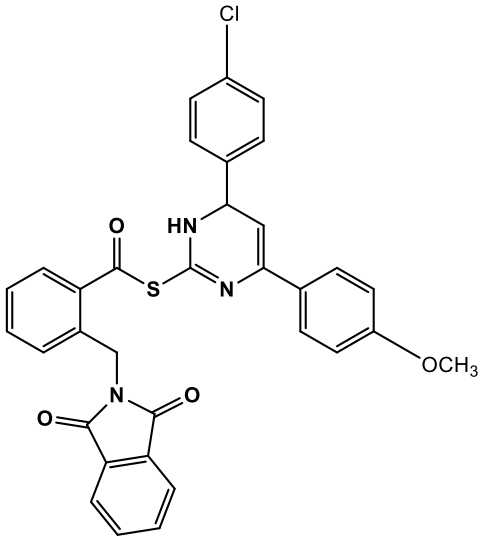


Figure S59: Mass Spectroscopy of Compound **10b**



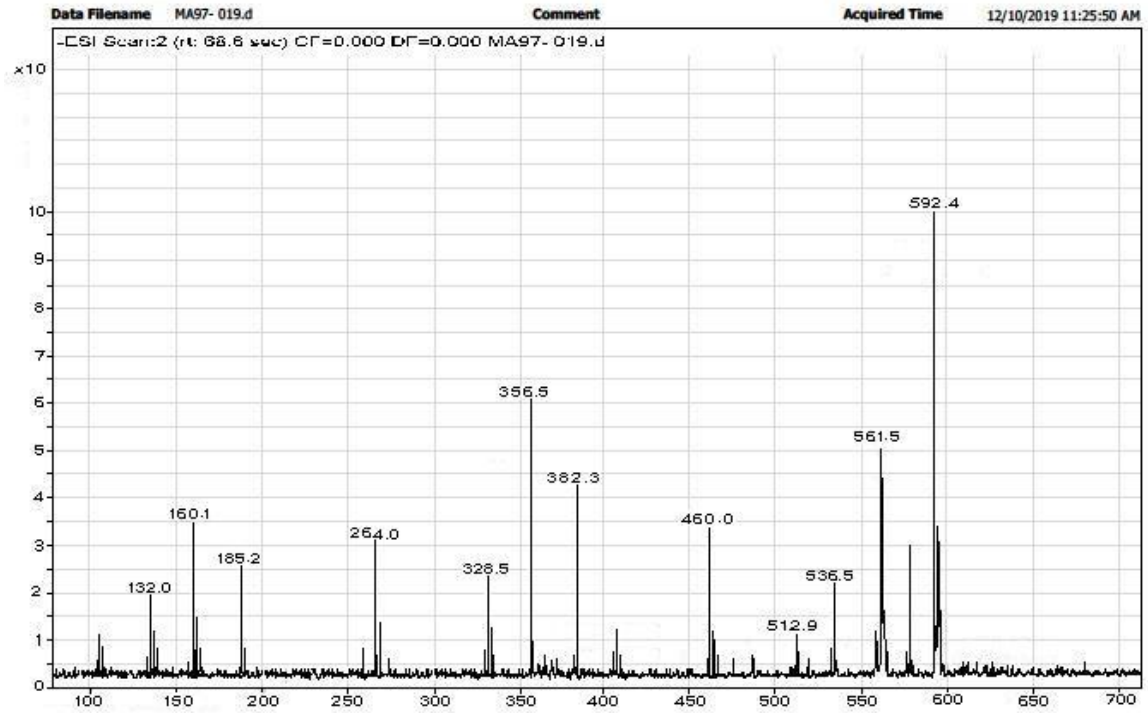
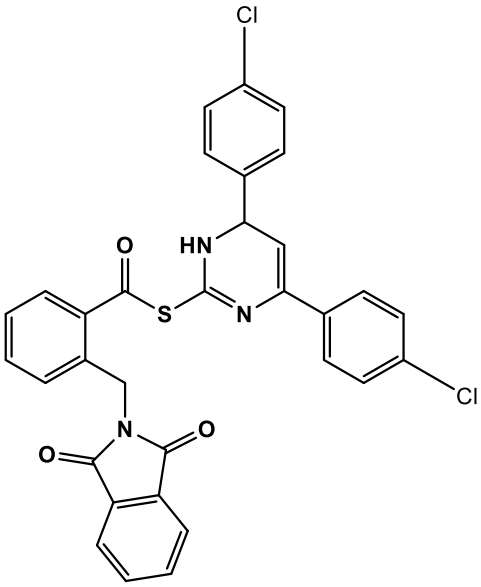


Figure S60: Mass Spectroscopy of Compound **10c**



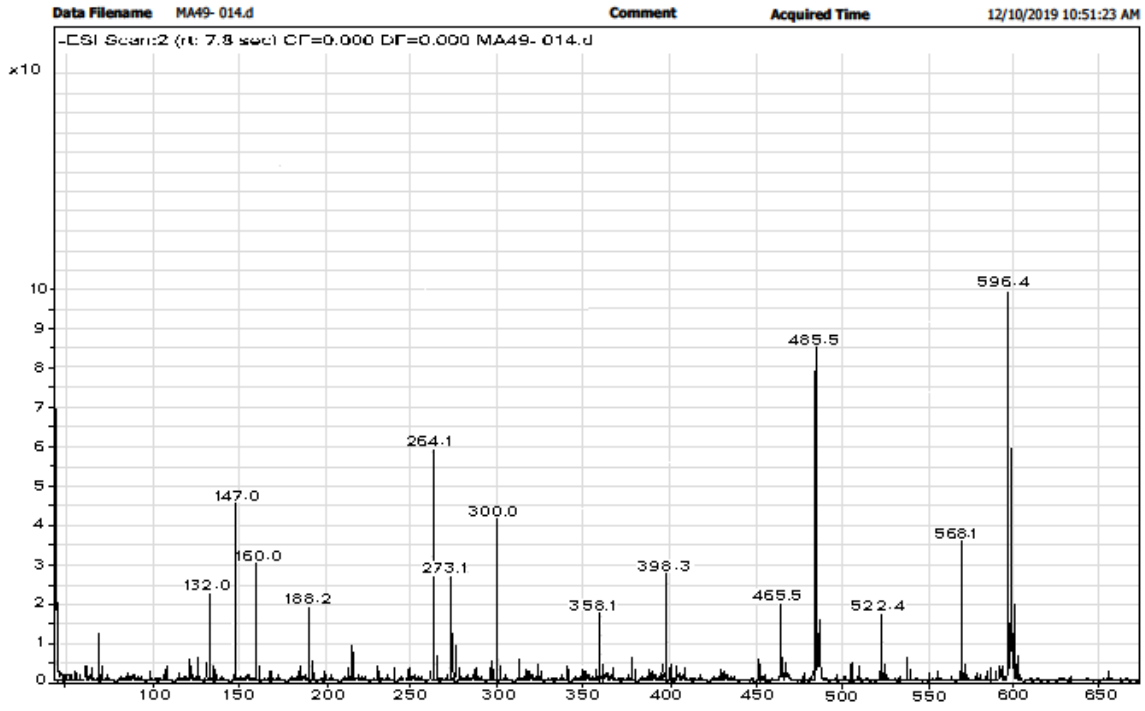
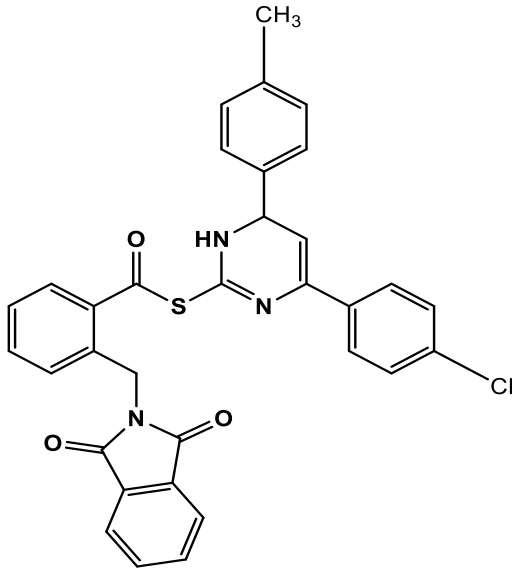


Figure S61: Mass Spectroscopy of Compound **10d**



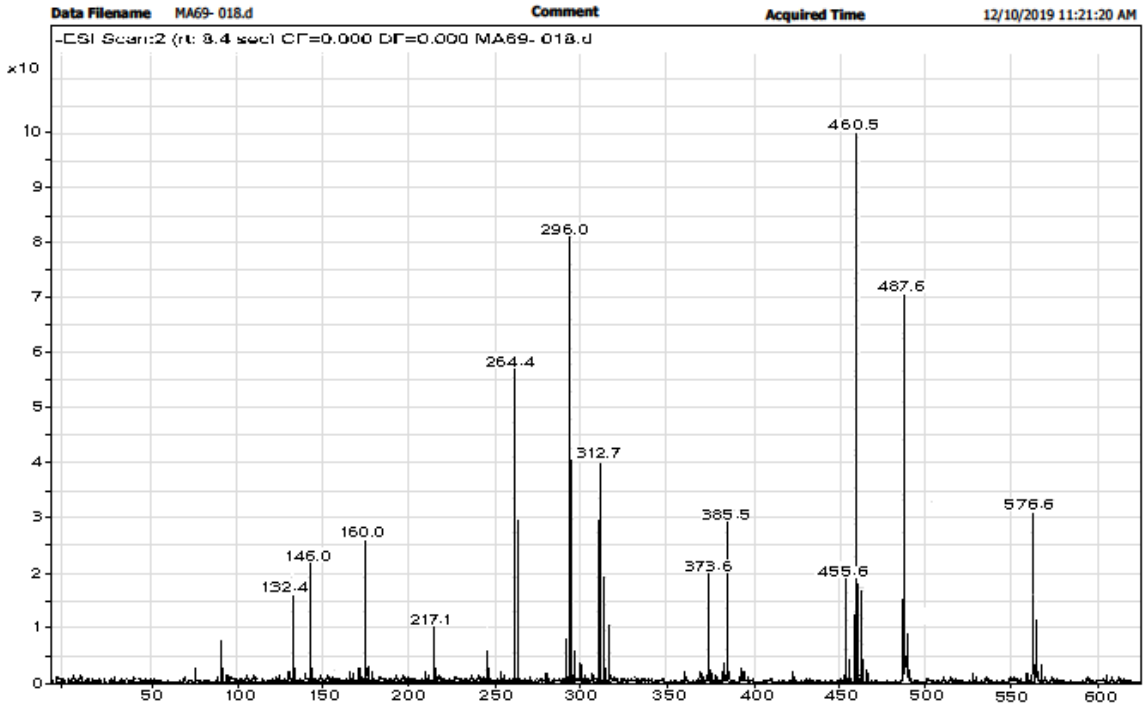
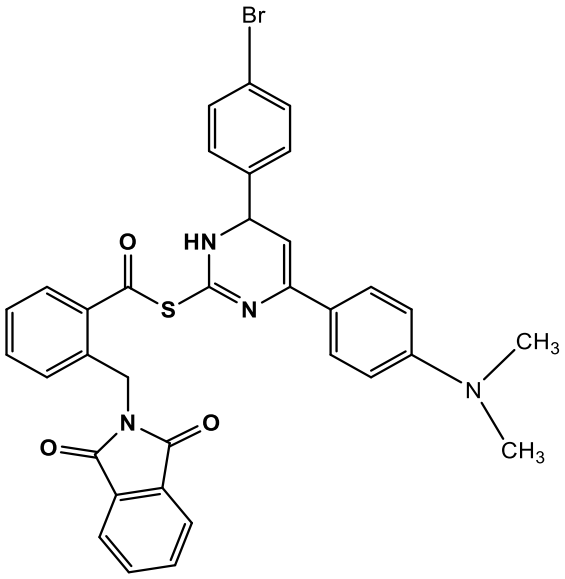


Figure S62: Mass Spectroscopy of Compound **10e**



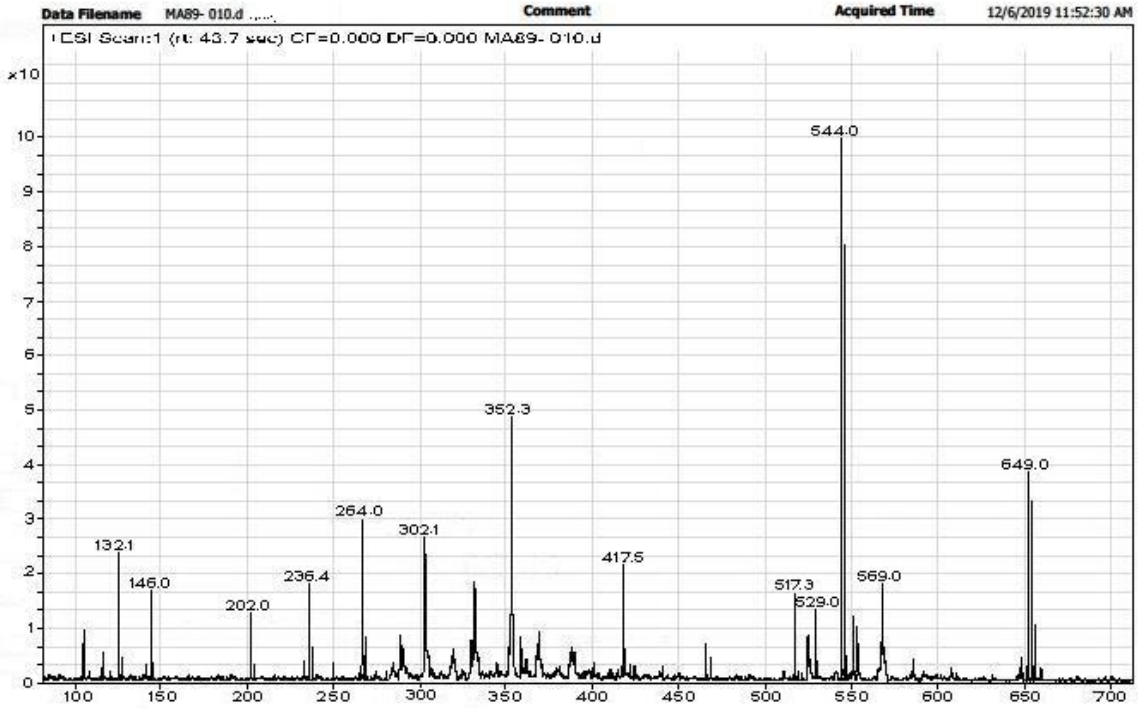
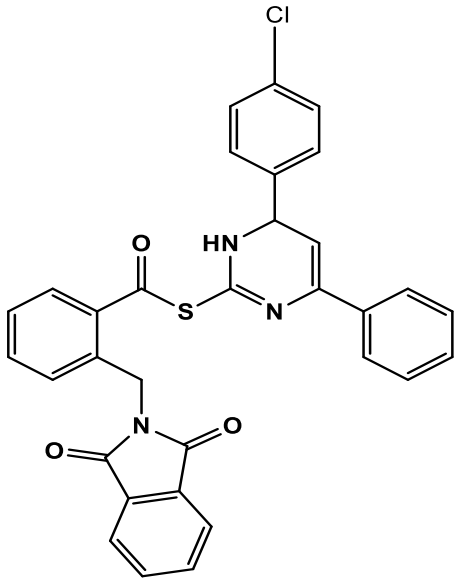


Figure S63: Mass Spectroscopy of Compound **10f**



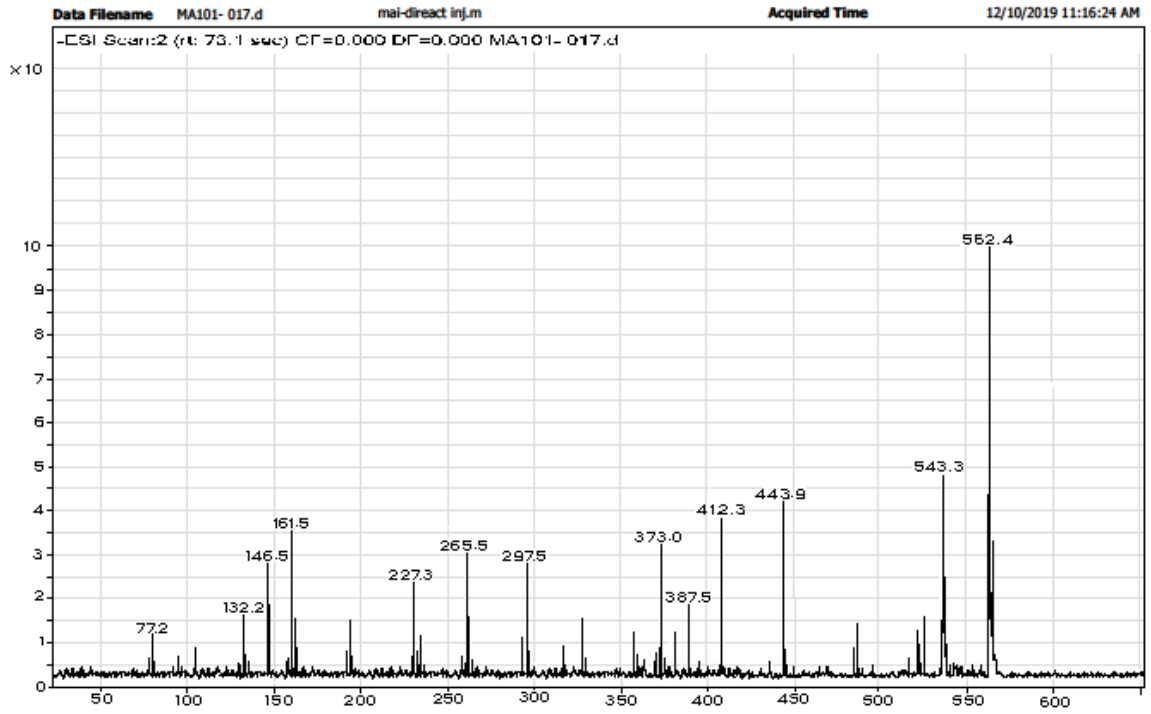
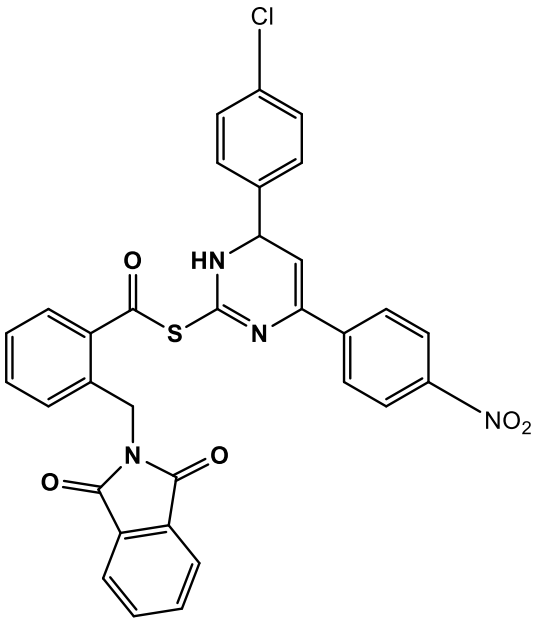


Figure S64: Mass Spectroscopy of Compound **10g**



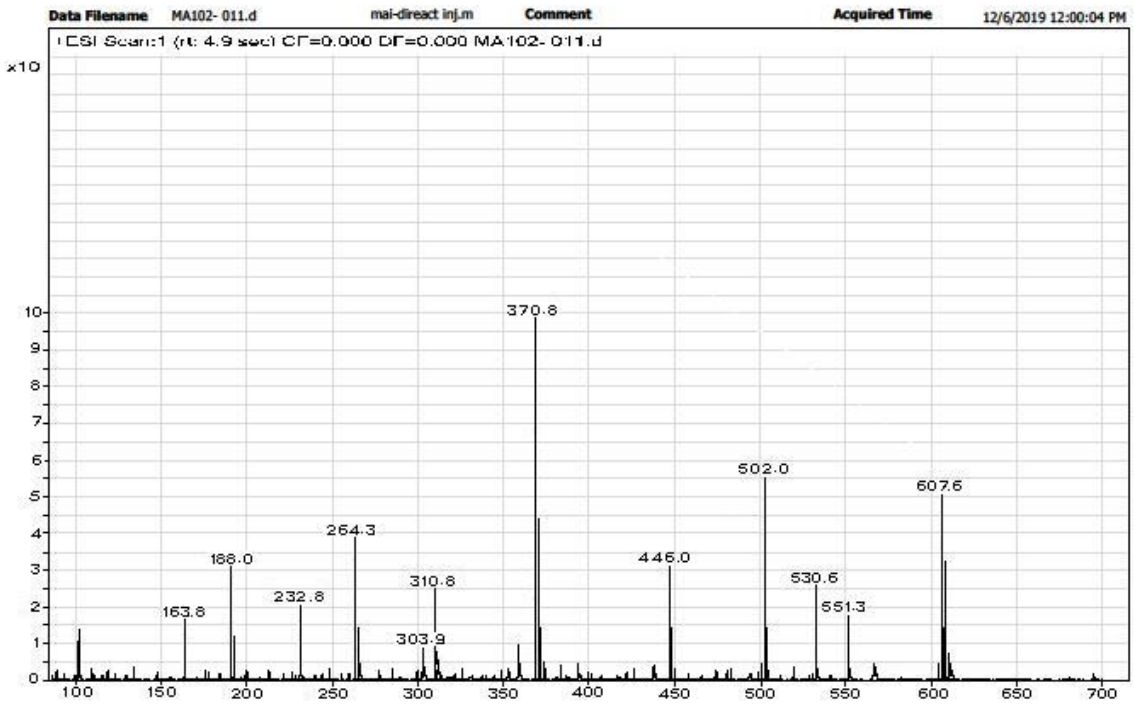
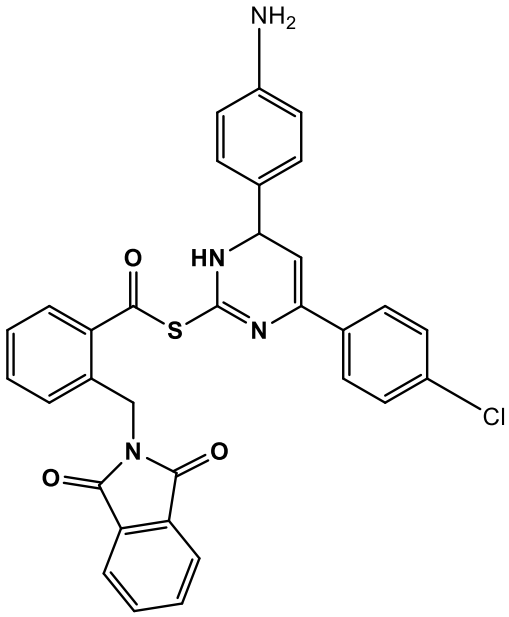


Figure S65: Mass Spectroscopy of Compound **10h**



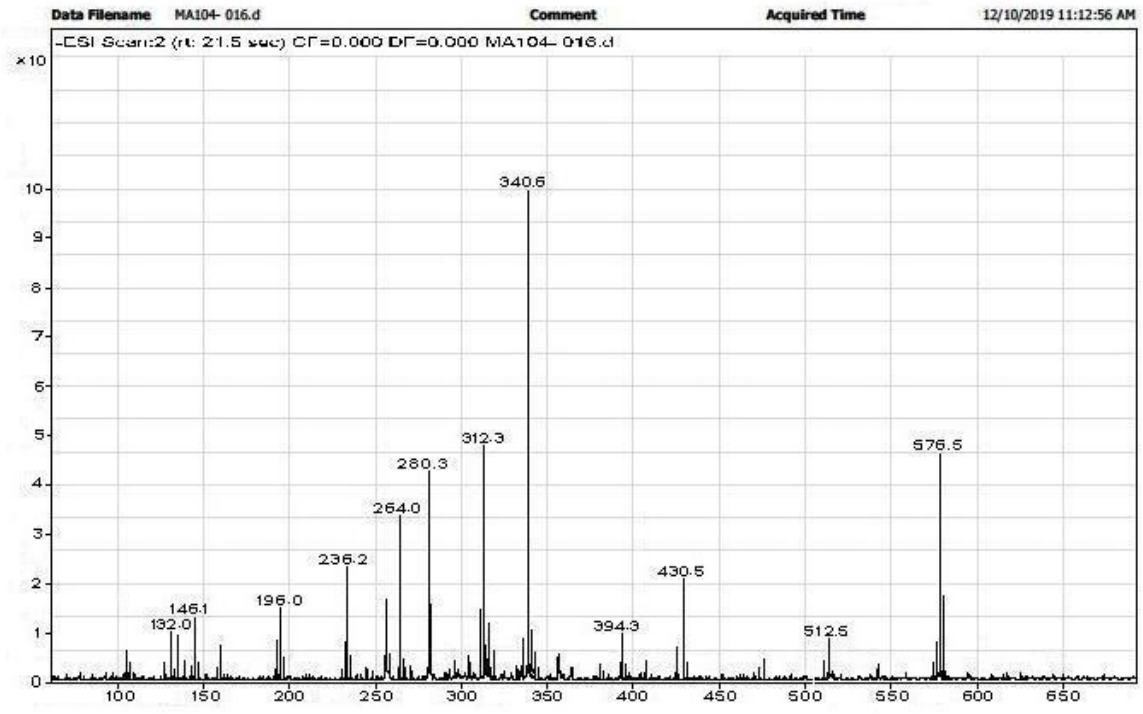
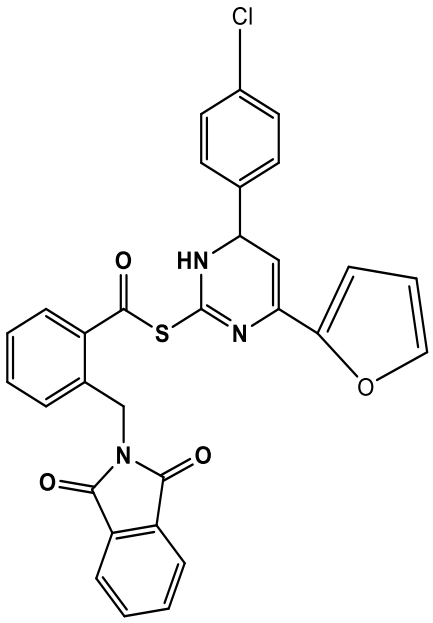


Figure S66: Mass Spectroscopy of Compound **10i**



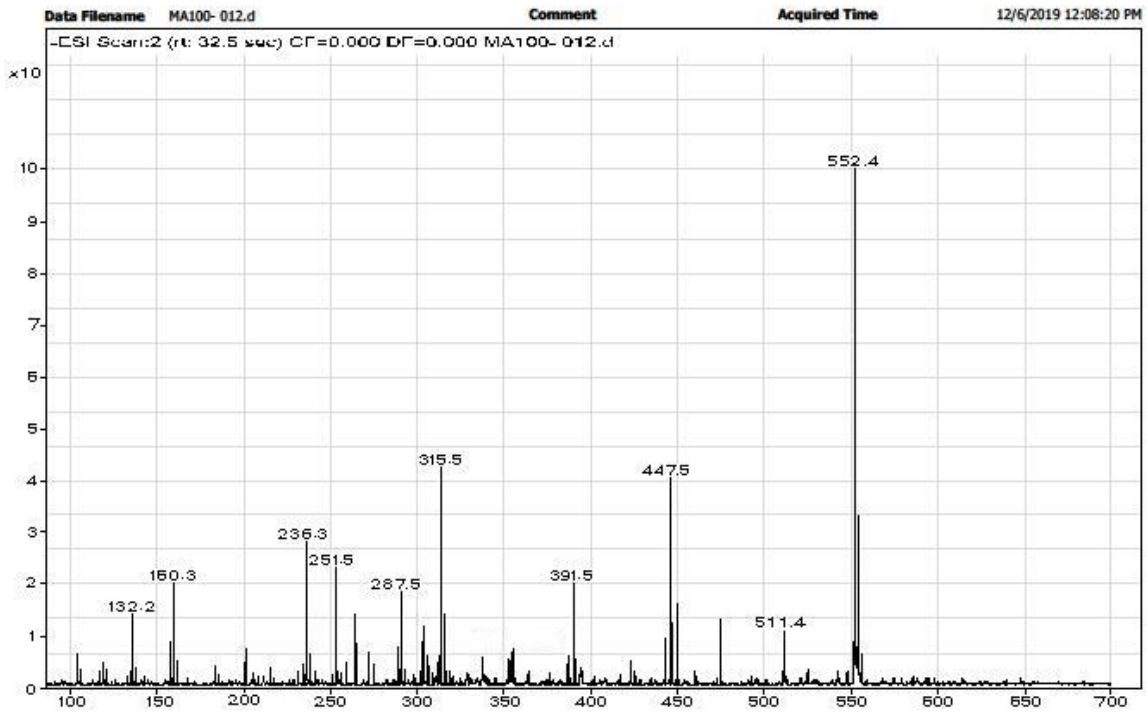


Figure S67: Mass Spectroscopy of Compound **10j**