

Figure S1. TGA and DTG curves of 3A1-3A7 and 4.

Table S1. Wavelength maxima [nm] of absorption spectra together with oscillator strengths calculated for **3A2-3A6** molecules with the TD-DFT method.

Code	Calculated wavelengths [nm] (oscillator strengths)	Transitions
3A2	351.34 (0.31)	HOMO->LUMO (98%)
	297.56 (0.15)	H-1->LUMO (83%)
	287.98 (0.28)	HOMO->L+2 (91%)
	283.38 (0.17)	H-4->LUMO (14%), H-3->L+1 (45%), H-2->LUMO (17%)
	280.88 (0.98)	H-3->L+1 (16%), H-2->LUMO (63%)
	263.40 (0.16)	H-1->L+1 (69%)
	262.16 (0.15)	H-7->LUMO (10%), H-2->L+1 (67%)
	256.98 (0.12)	HOMO->L+4 (32%), HOMO->L+5 (16%), HOMO->L+6 (20%)
	251.04 (0.23)	H-1->L+2 (86%)
3A3	304.66 (1.02)	HOMO->LUMO (95%)
	299.31 (0.13)	H-1->LUMO (84%)
	269.37 (0.65)	H-4->LUMO (17%), H-2->LUMO (50%), H-1->L+1 (11%), HOMO->L+2 (10%)
	253.48 (0.19)	H-1->L+2 (67%), H-1->L+3 (22%)
	250.30 (0.19)	H-5->L+1 (17%), H-2->L+1 (54%)
	248.10 (0.04)	HOMO->L+3 (72%)
3A4	352.97 (0.49)	HOMO->LUMO (97%)
	308.80 (1.17)	HOMO->L+2 (89%)
	297.99 (0.15)	H-1->LUMO (84%)
	279.82 (0.49)	H-5->L+1 (10%), H-2->LUMO (71%)
	262.91 (0.15)	H-2->L+1 (61%)
	252.92 (0.23)	H-1->L+2 (50%), H-1->L+3 (39%)
	244.36 (0.11)	H-9->L+1 (11%), H-7->L+1 (43%)
3A5	381.65 (0.19)	HOMO->LUMO (98%)
	307.01 (0.22)	HOMO->L+2 (51%), HOMO->L+3 (40%)
	299.04 (0.13)	H-3->LUMO (80%)
	292.92 (0.34)	HOMO->L+4 (35%), HOMO->L+7 (24%)
	288.29 (0.96)	H-2->LUMO (68%), H-1->L+3 (10%)
	273.39 (0.29)	H-1->L+2 (49%), HOMO->L+6 (16%), HOMO->L+7 (13%)
	266.99 (0.28)	H-4->LUMO (51%), H-1->L+3 (15%)
	266.16 (0.15)	H-4->L+1 (12%), H-2->L+1 (69%)
	264.17 (0.36)	H-3->L+1 (24%), H-1->L+3 (37%), HOMO->L+7 (21%)
	263.51 (0.15)	H-8->L+1 (10%), H-4->LUMO (21%), H-3->L+1 (50%)
3A6	341.99 (0.32)	HOMO->LUMO (96%)
	302.68 (0.13)	H-2->LUMO (33%), H-1->LUMO (30%), HOMO->L+1 (23%)
	302.27 (0.12)	H-2->LUMO (18%), H-1->LUMO (49%), HOMO->L+1 (16%)
	287.29 (1.20)	H-3->LUMO (40%), HOMO->L+3 (30%), HOMO->L+4 (11%)
	281.30 (0.10)	H-3->LUMO (37%), HOMO->L+3 (31%)
	267.69 (0.11)	H-1->L+2 (13%), HOMO->L+4 (30%), HOMO->L+5 (25%)
	264.57 (0.33)	H-1->L+2 (16%), HOMO->L+5 (22%)
	252.78 (0.22)	H-2->L+2 (41%), H-2->L+3 (43%)

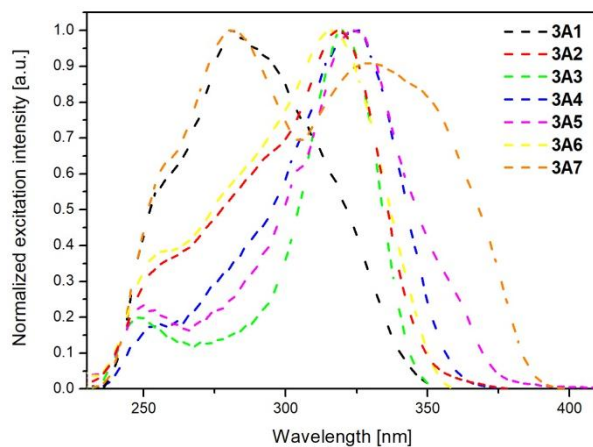
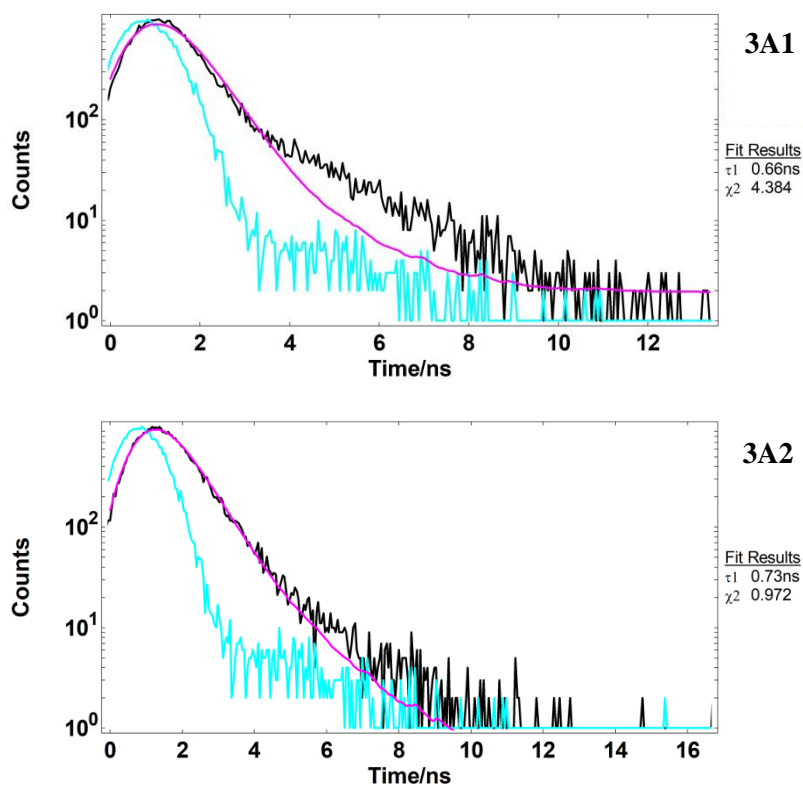
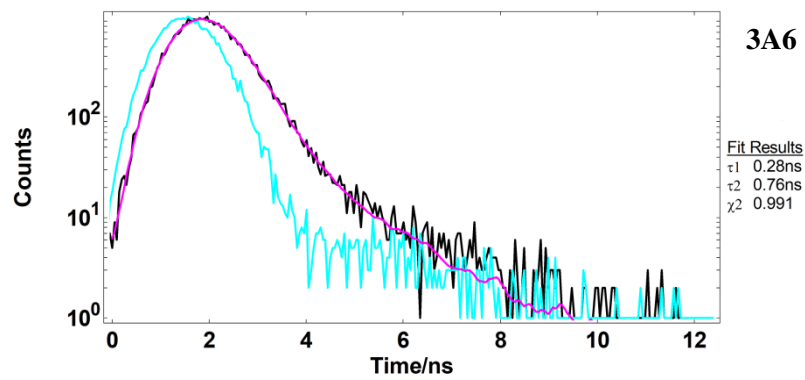
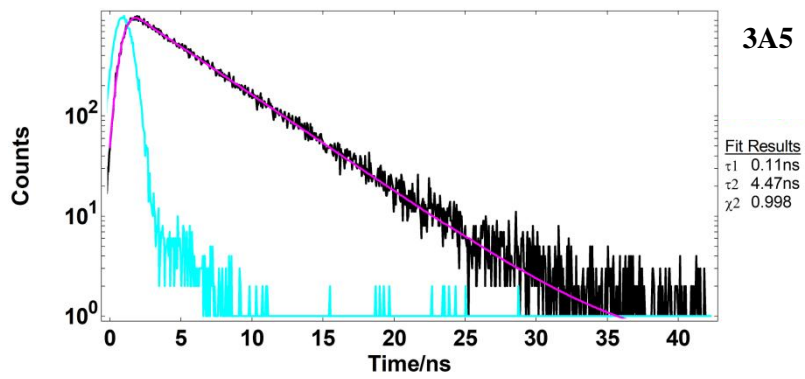
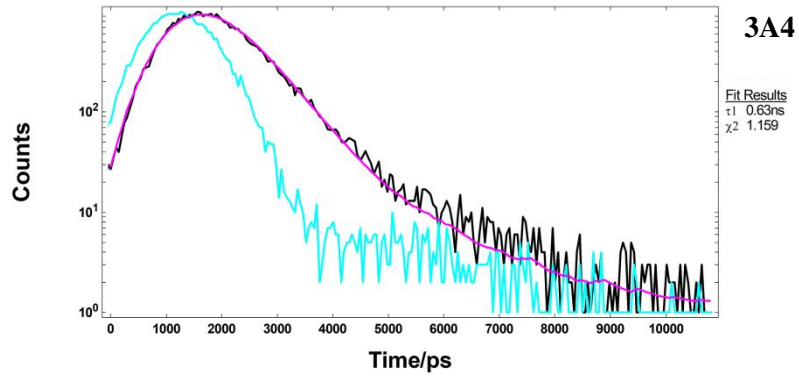
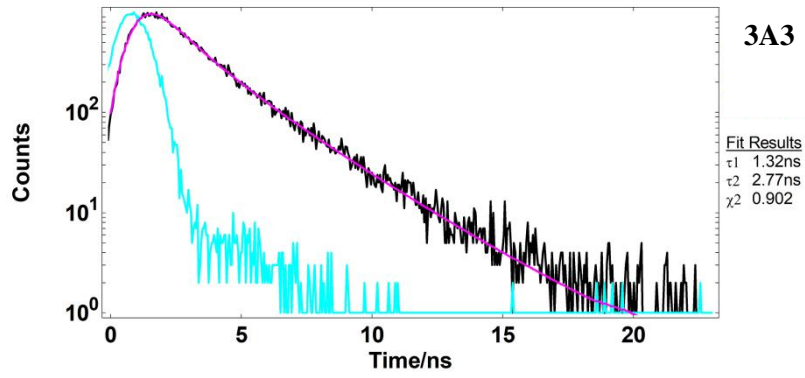


Figure S2. Normalized excitation spectra of **3A1-3A7**.





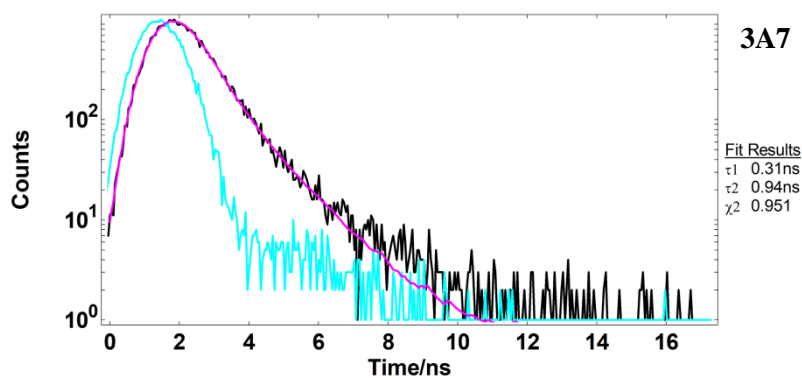
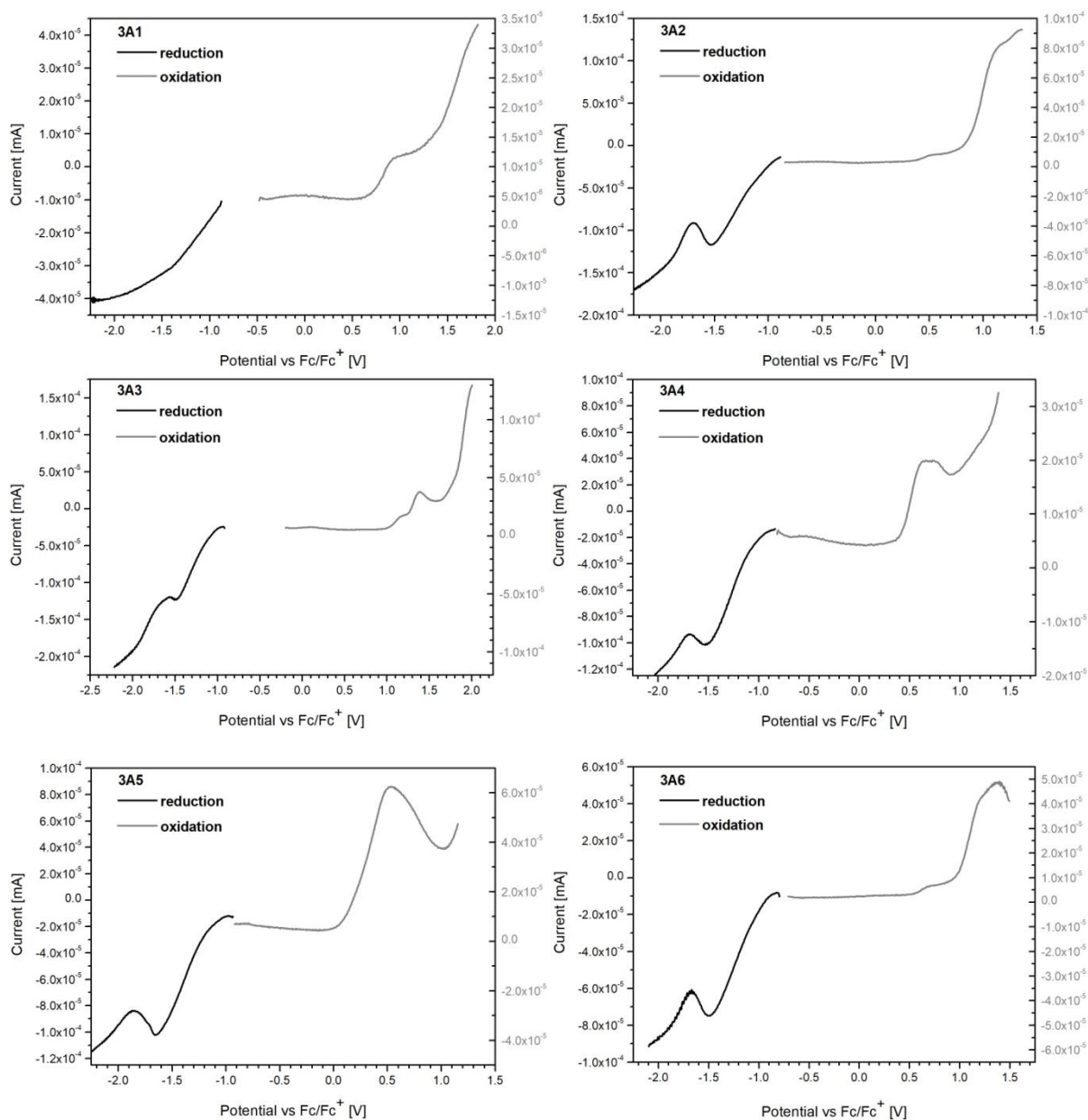


Figure S3. Decay curves of compounds **3A1-3A7** in chloroform solution.



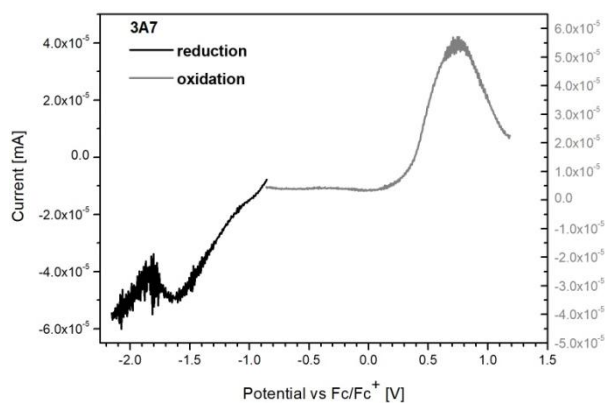
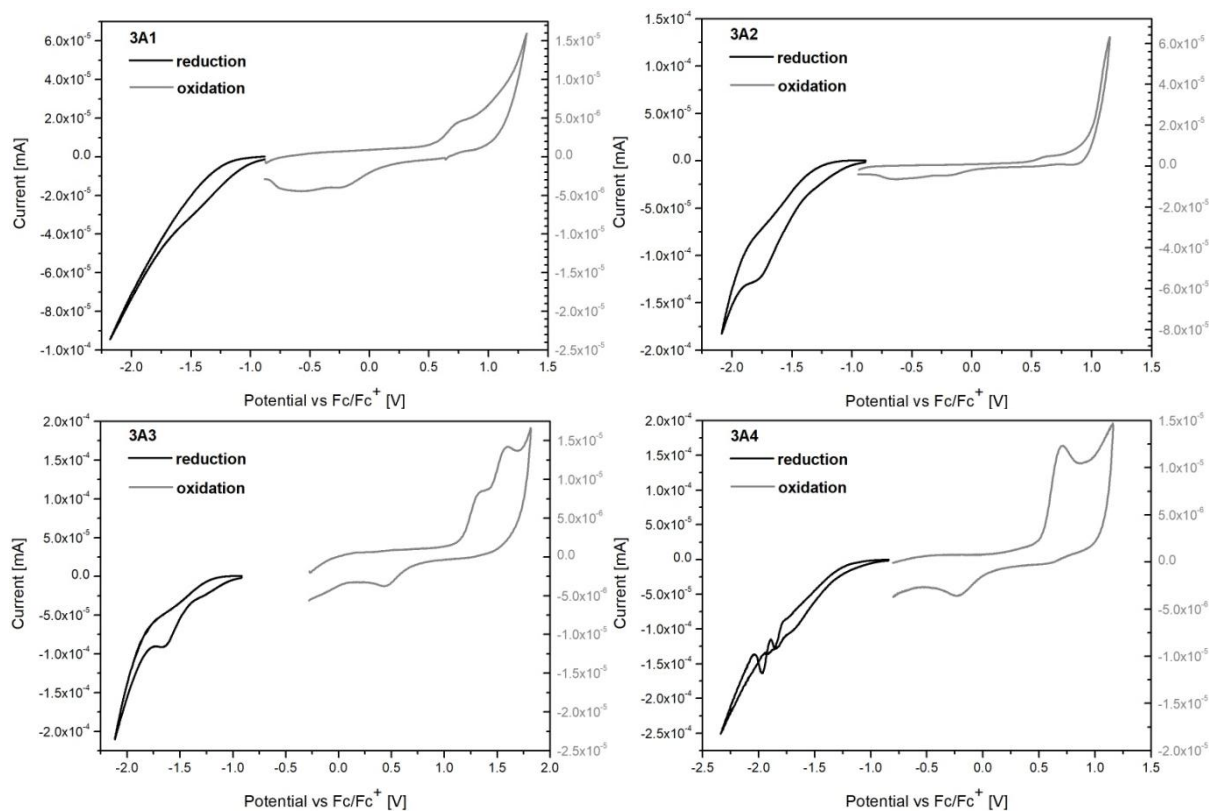


Figure S4. Differential pulse voltammetry (DPV) reduction and oxidation of **3A1-3A7**.



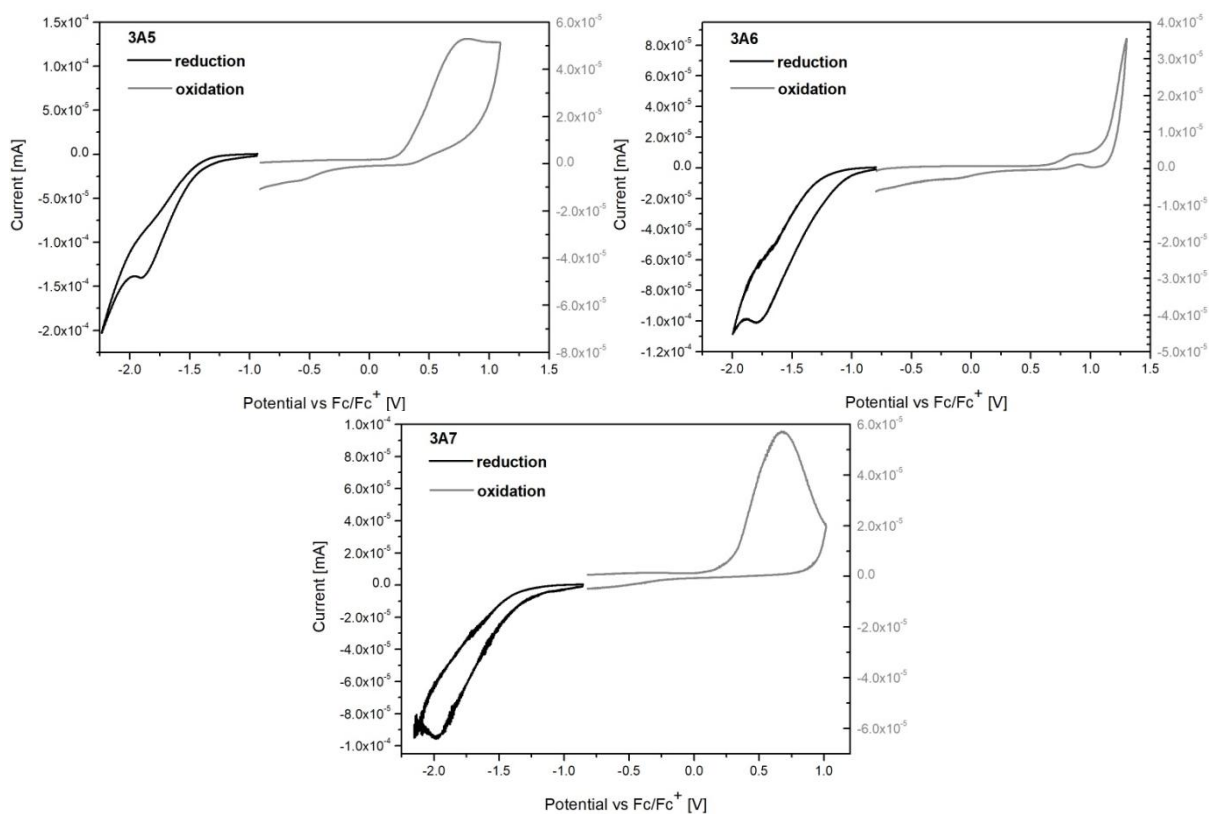
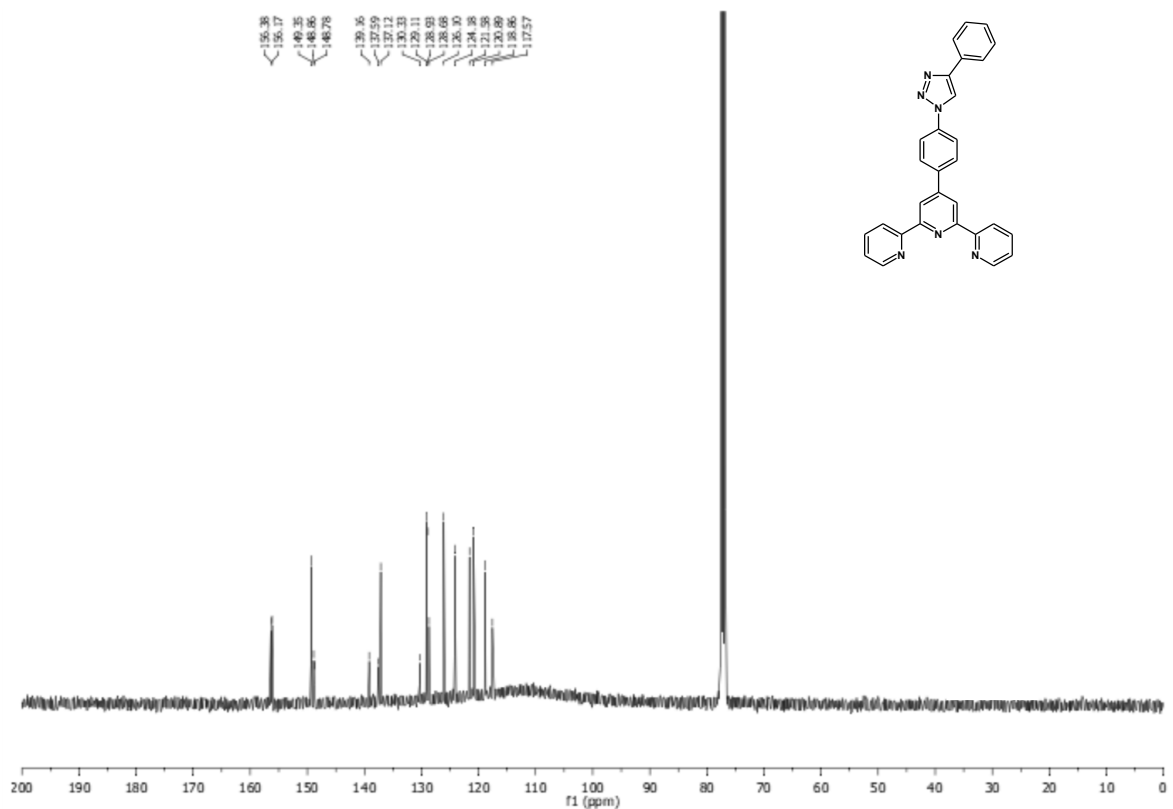
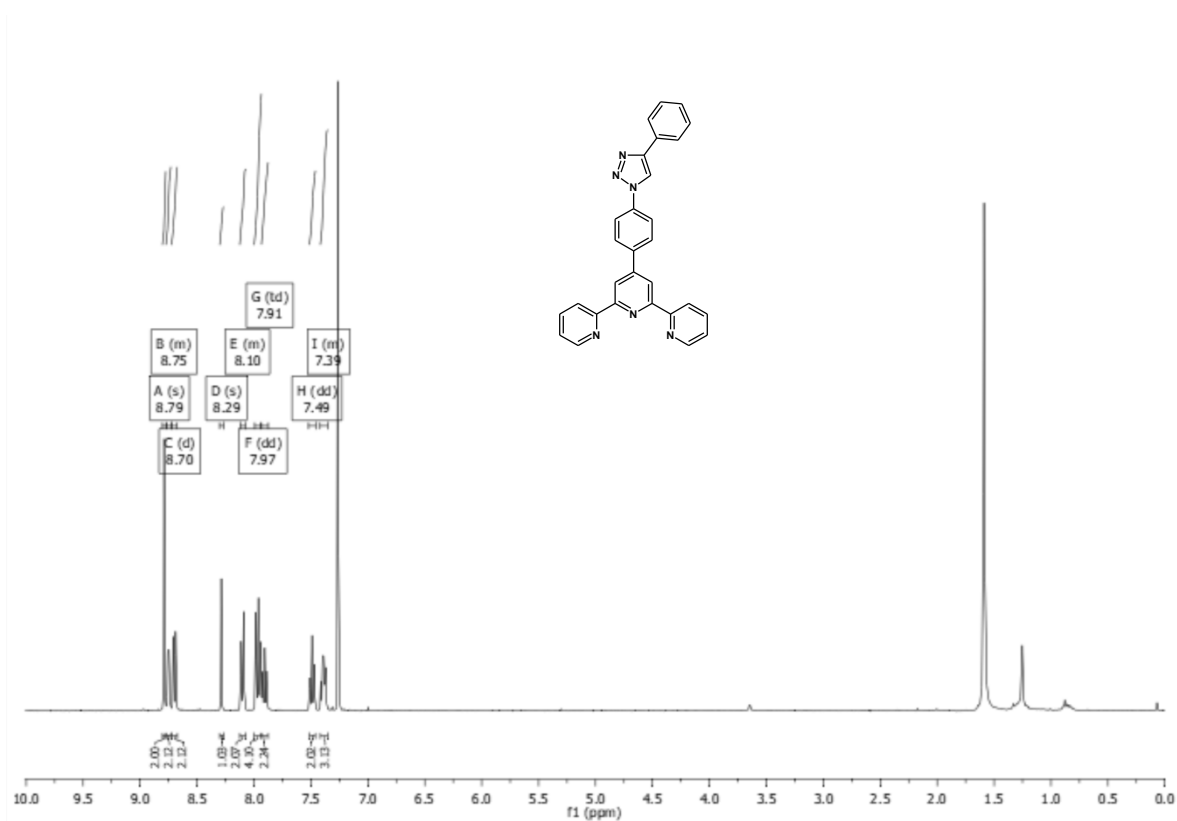


Figure S5. Cyclic voltammetry (CV) reduction and oxidation of **3A1-3A7**.

^1H NMR and ^{13}C NMR spectra of target compounds 3A1-3A7 and 4



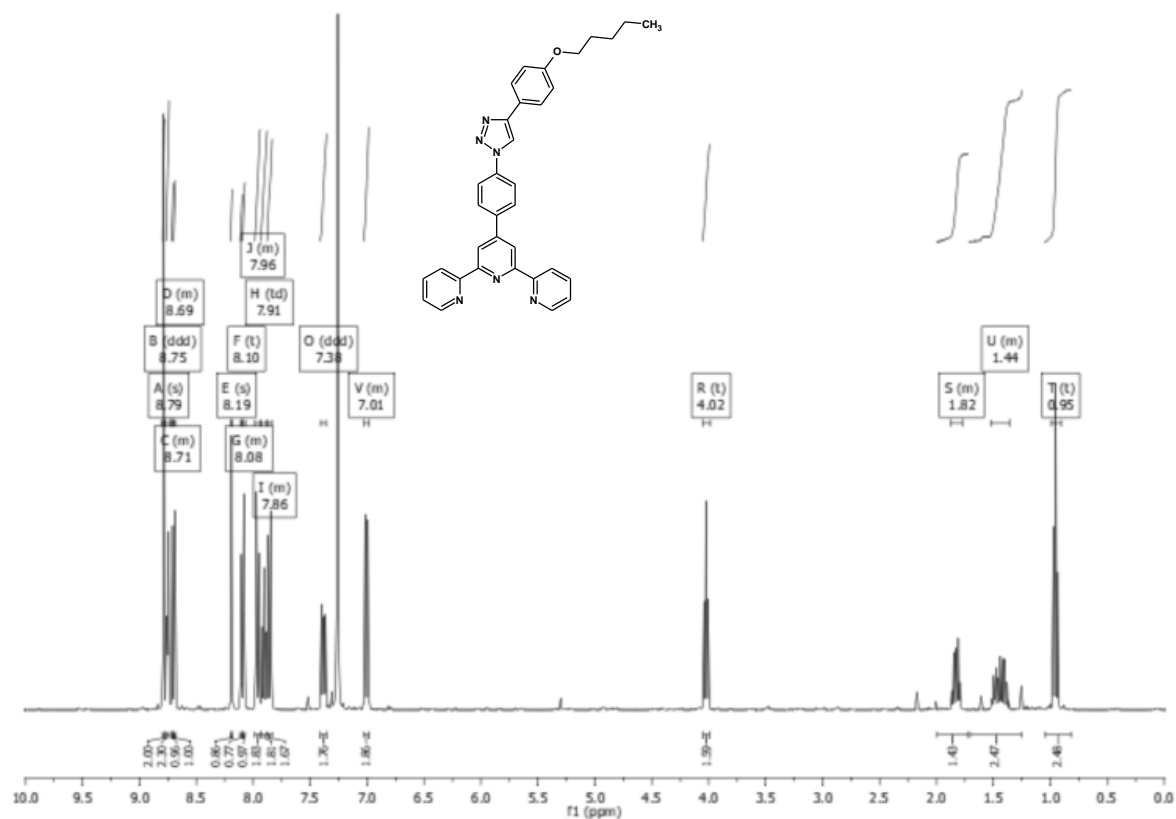


Figure S8. ^1H NMR plot of 3A2.

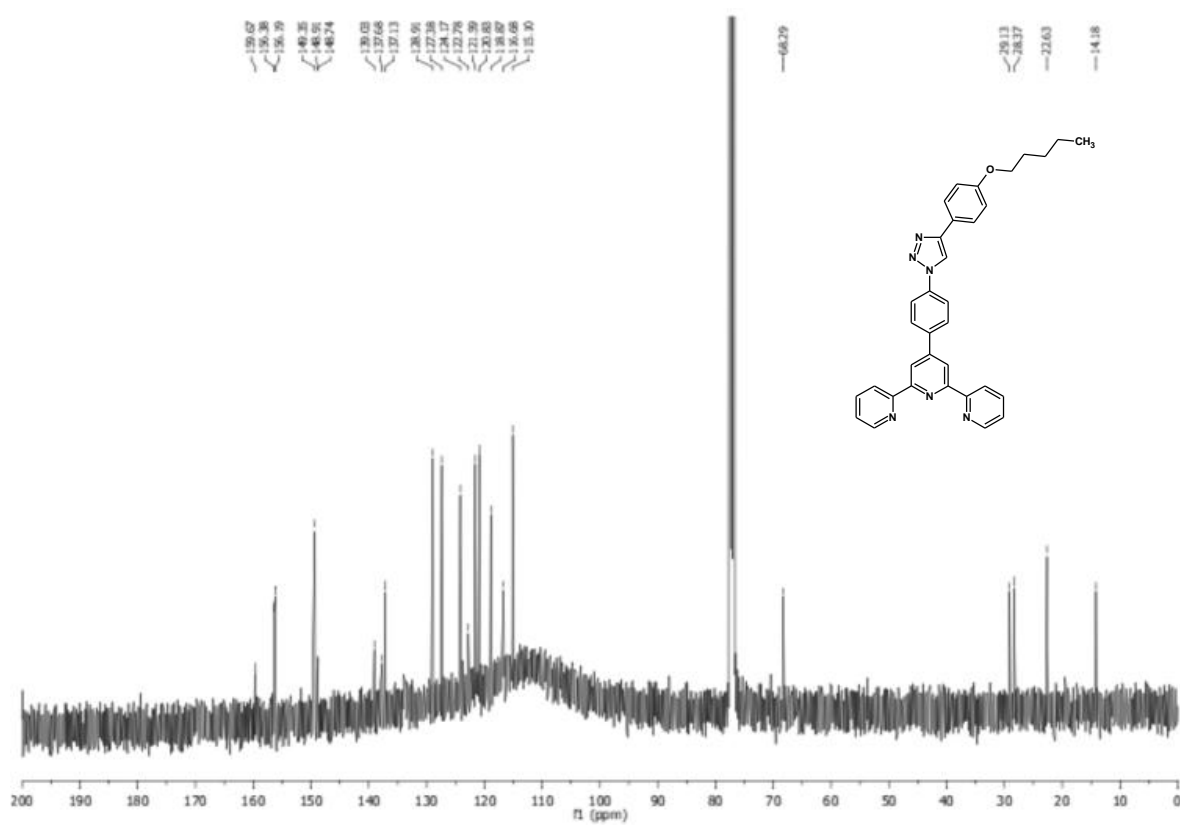


Figure S9. ^{13}C NMR plot of 3A2.

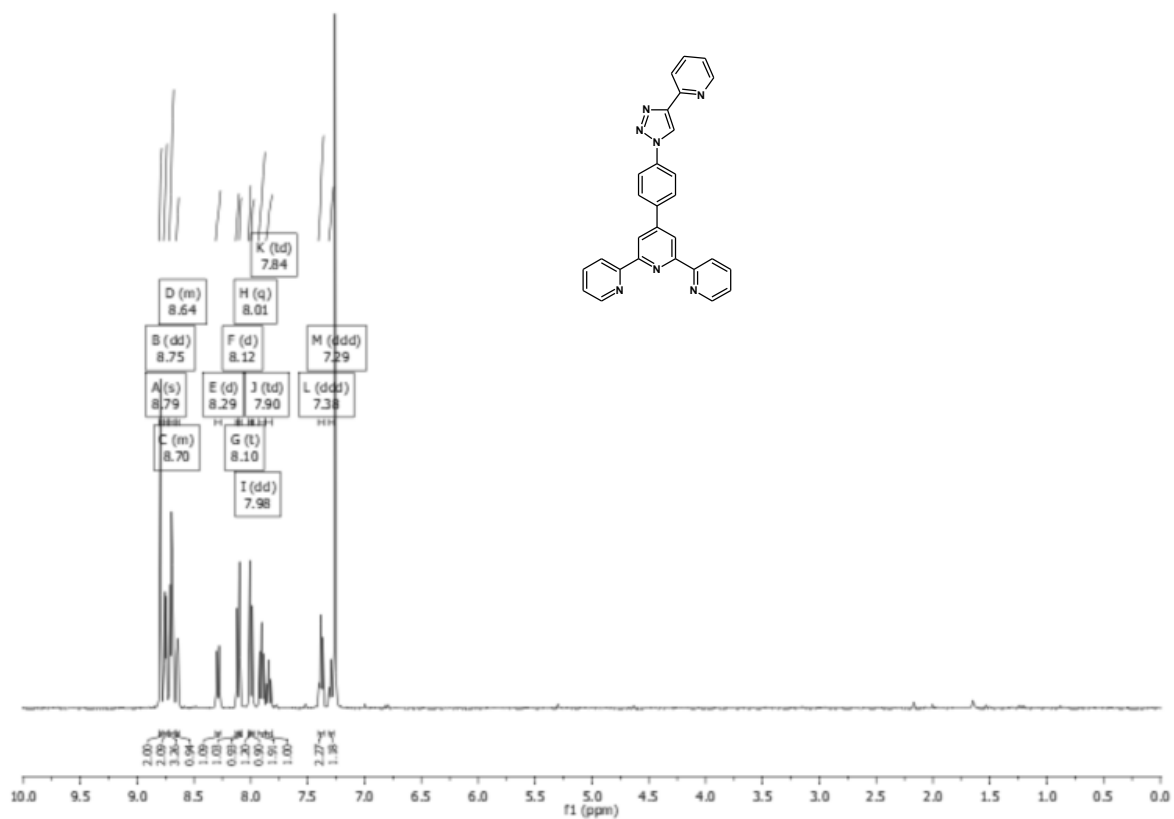


Figure S10. ^1H NMR plot of 3A3.

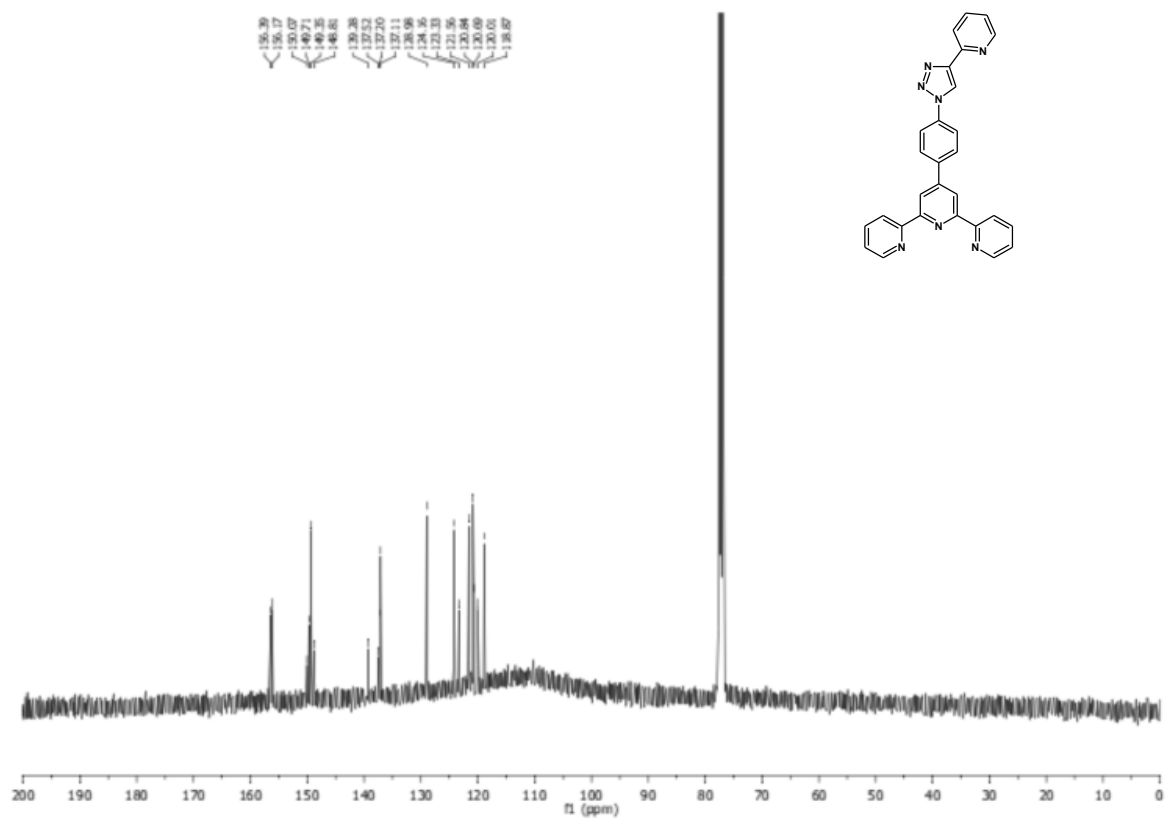


Figure S11. ^{13}C NMR plot of 3A3.

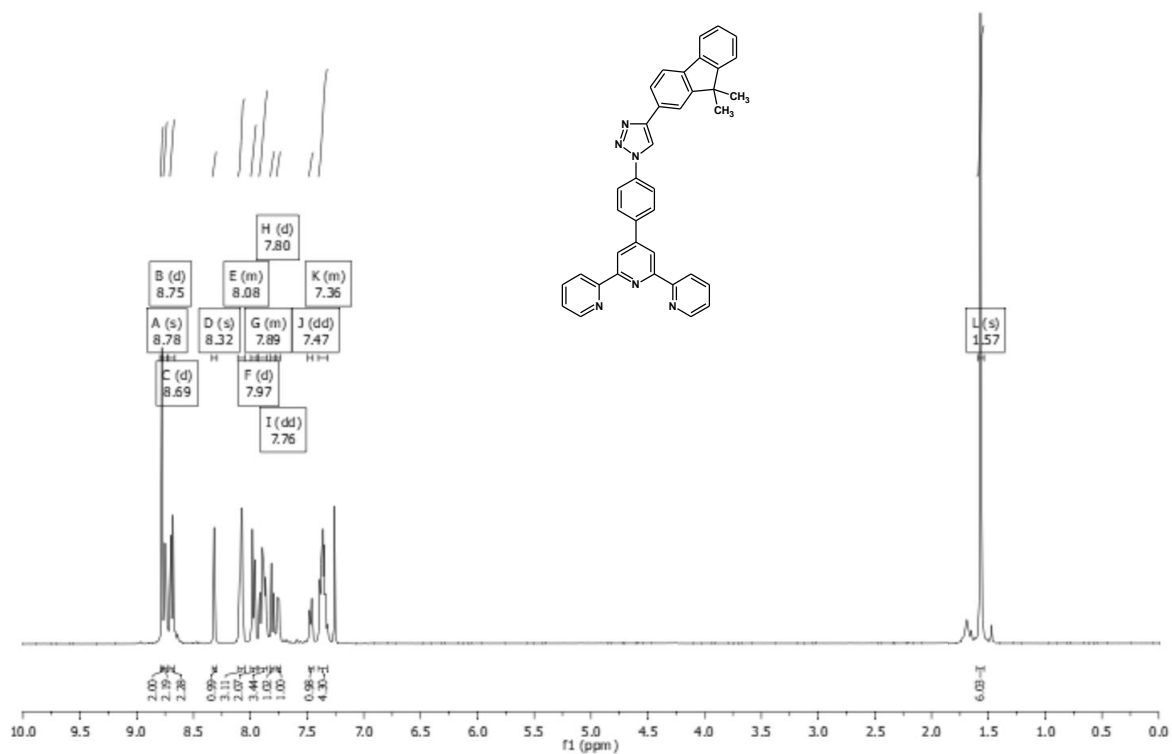


Figure S12. ^1H NMR plot of 3A4.

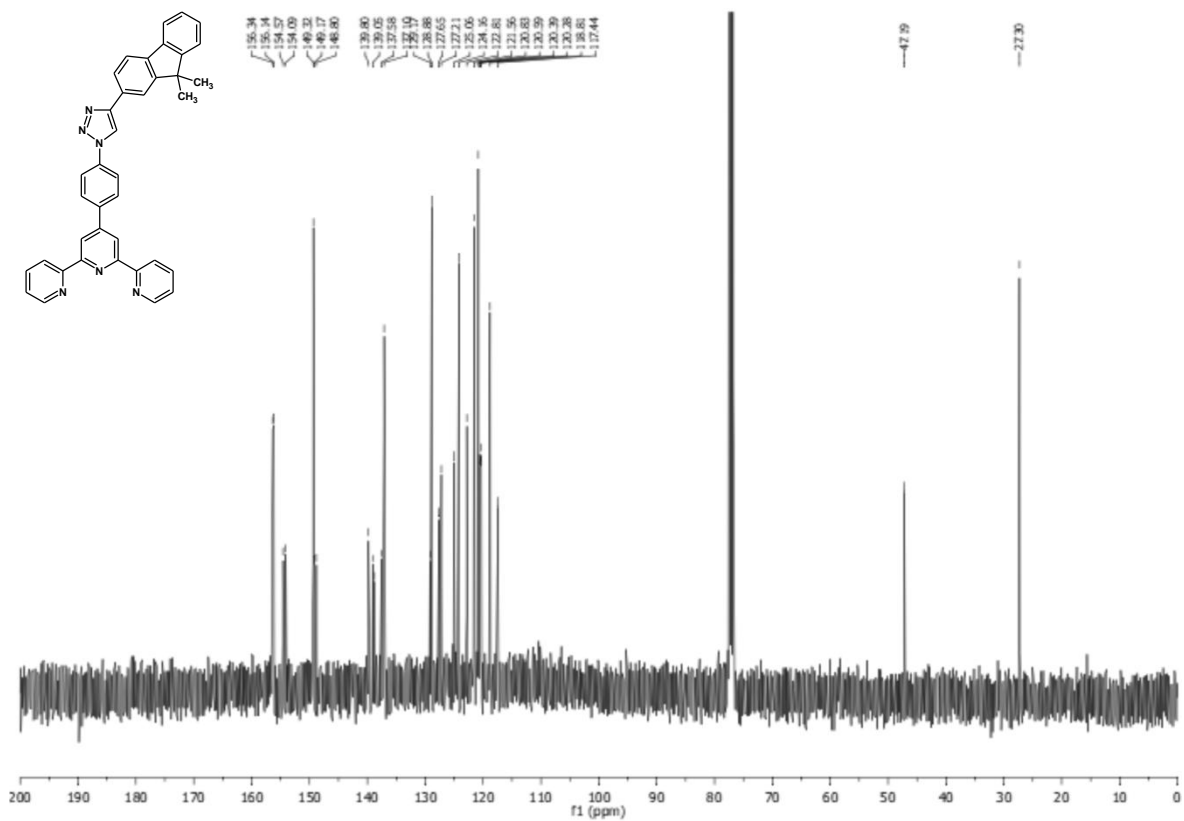


Figure S13. ^{13}C NMR plot of 3A4.

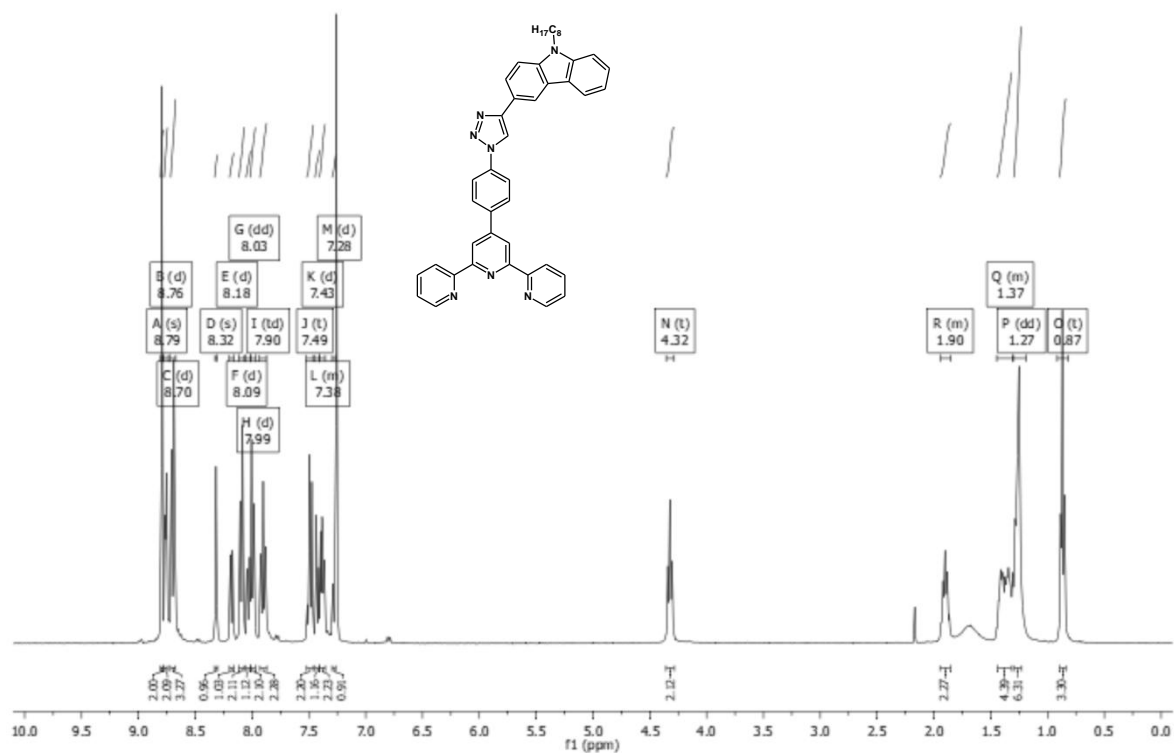


Figure S14. ^1H NMR plot of 3A5.

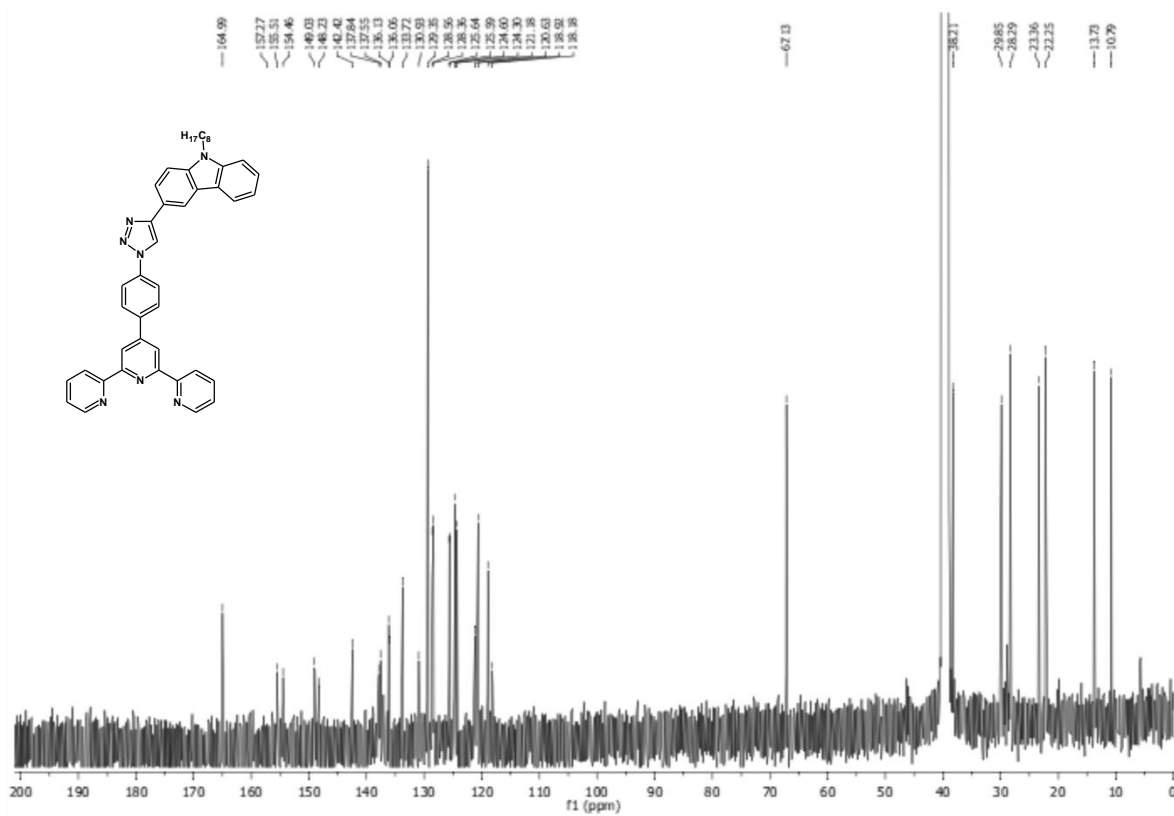


Figure S15. ^{13}C NMR plot of 3A5.

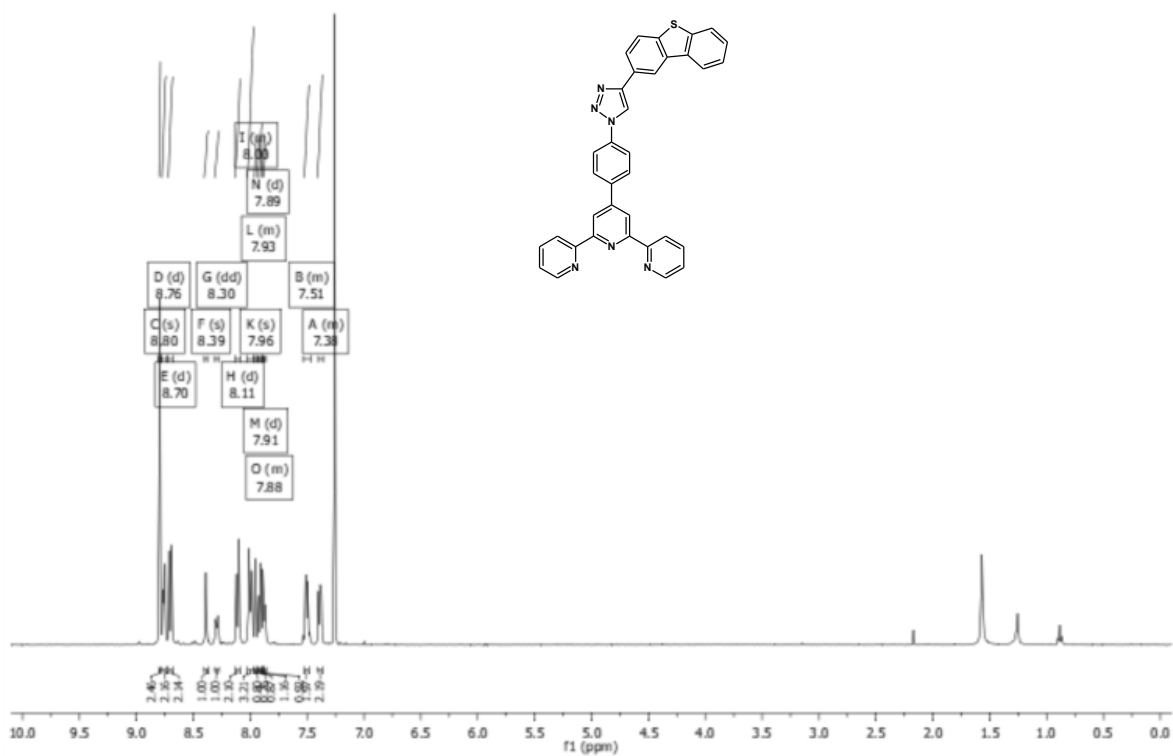


Figure S16. ^1H NMR plot of 3A6.

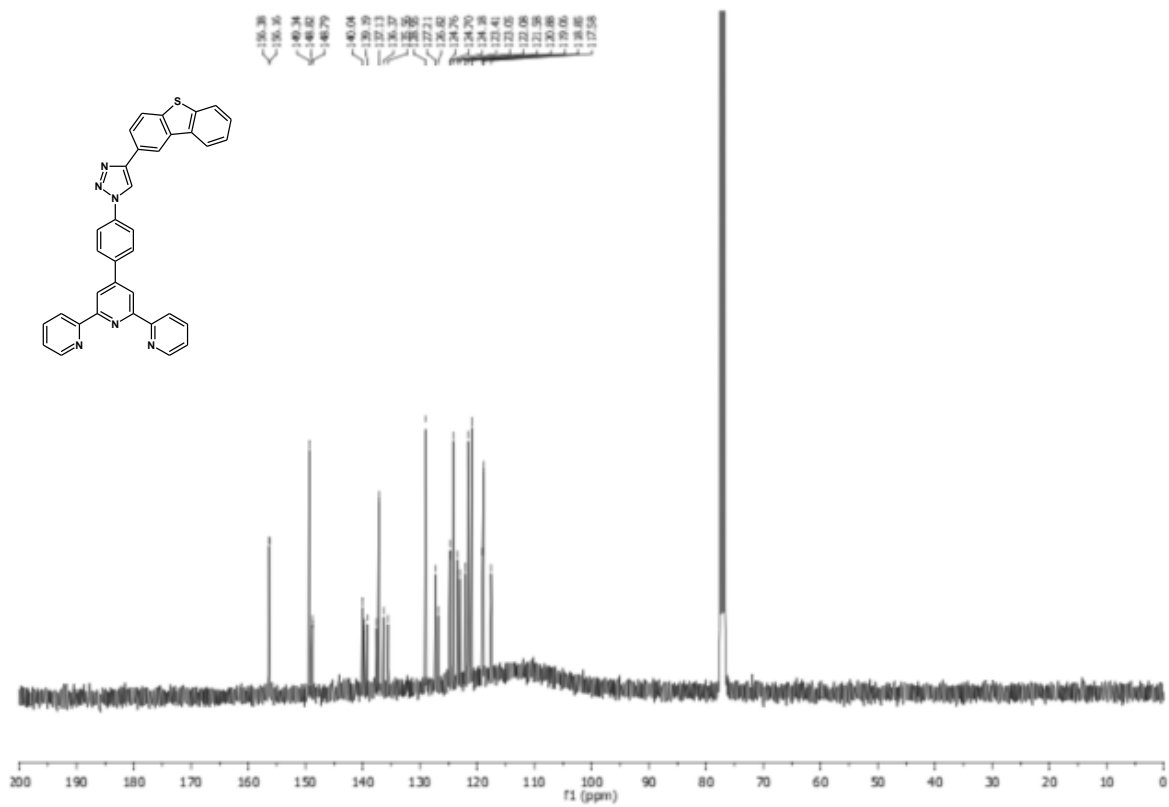


Figure S17. ^{13}C NMR plot of 3A6.

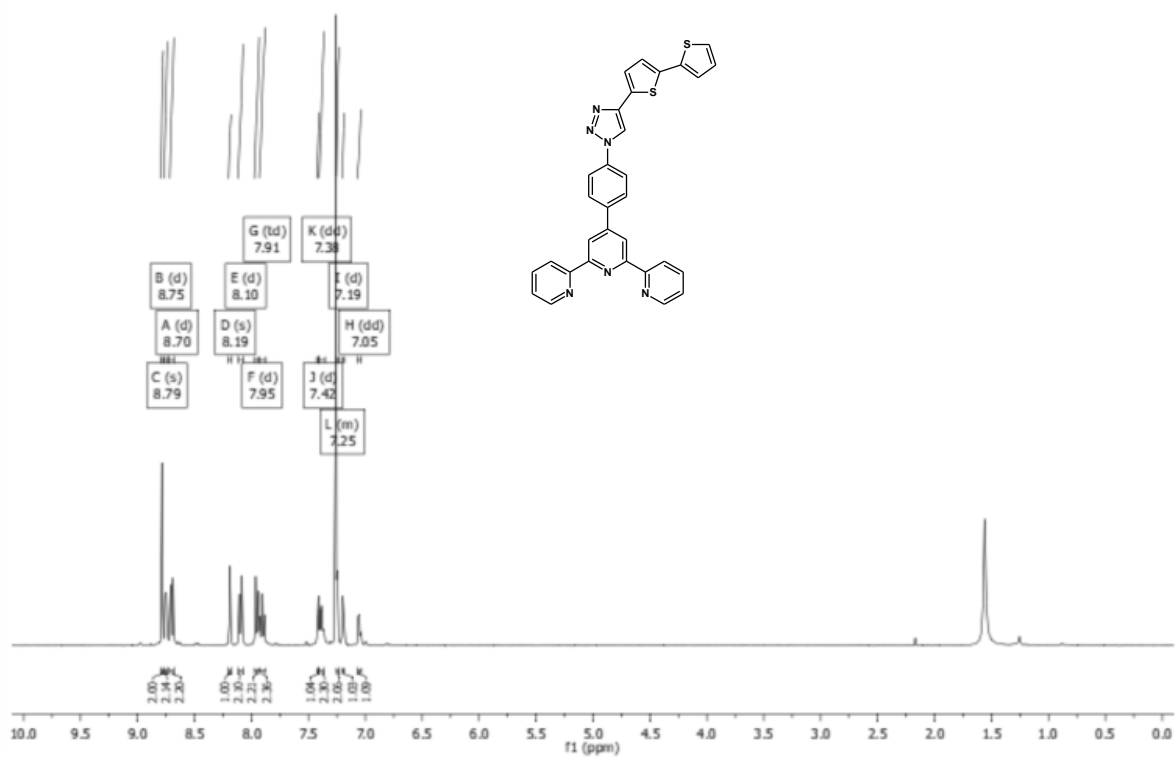


Figure S18. ^1H NMR plot of 3A7.

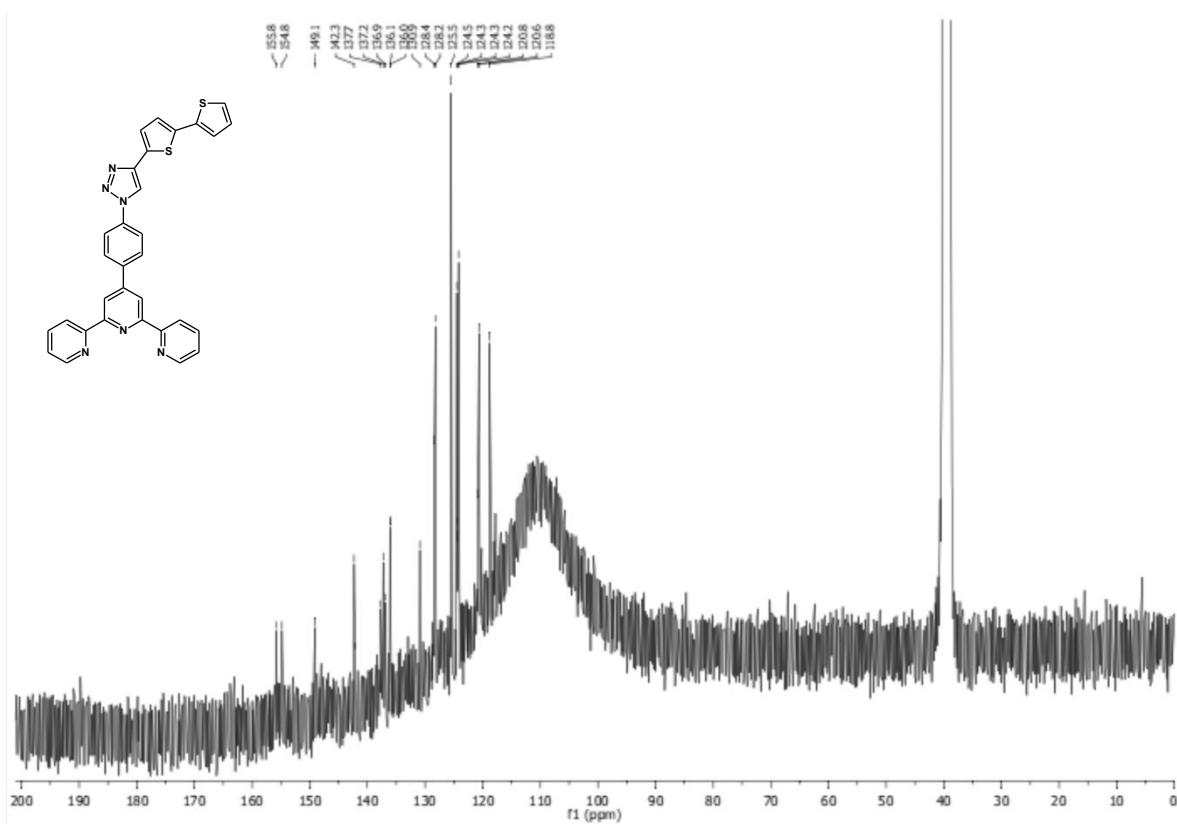


Figure S19. ^{13}C NMR plot of 3A7.

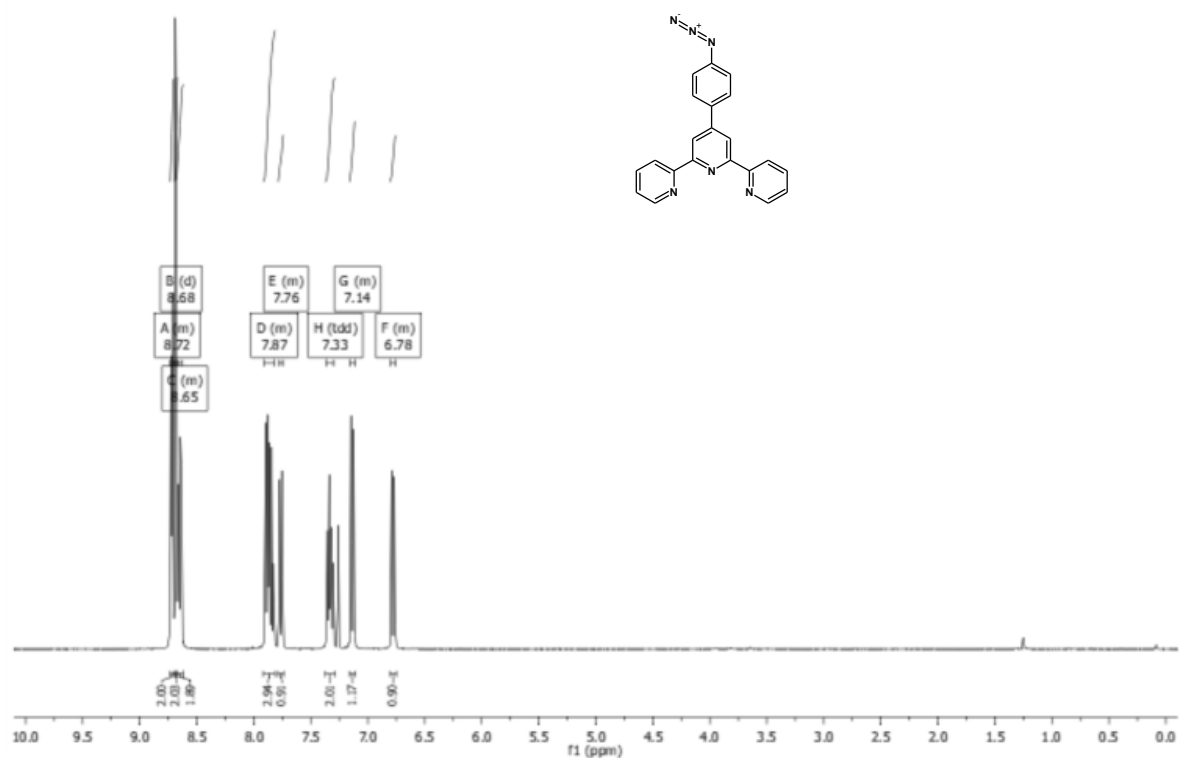


Figure S20. ^1H NMR plot of 4.

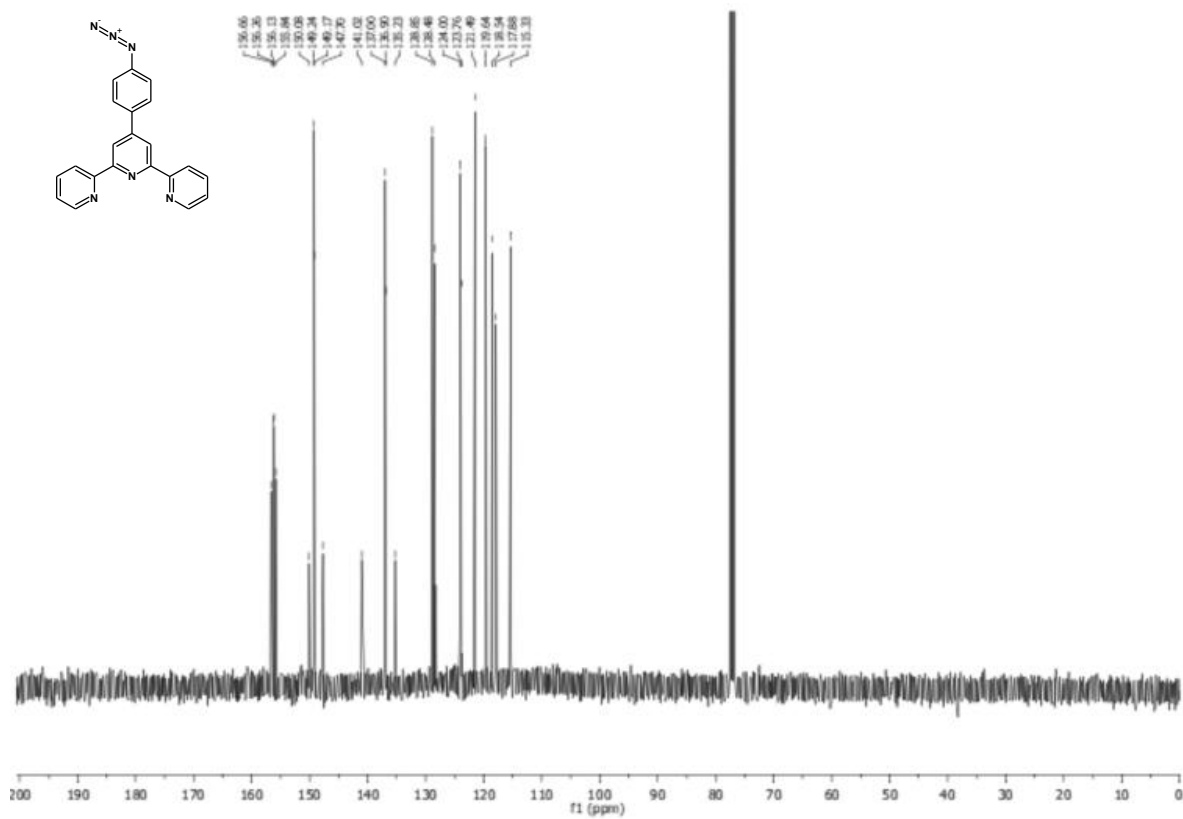


Figure S21. ^{13}C NMR plot of 4.

MS spectra of target compounds 3A1-3A7 and 4

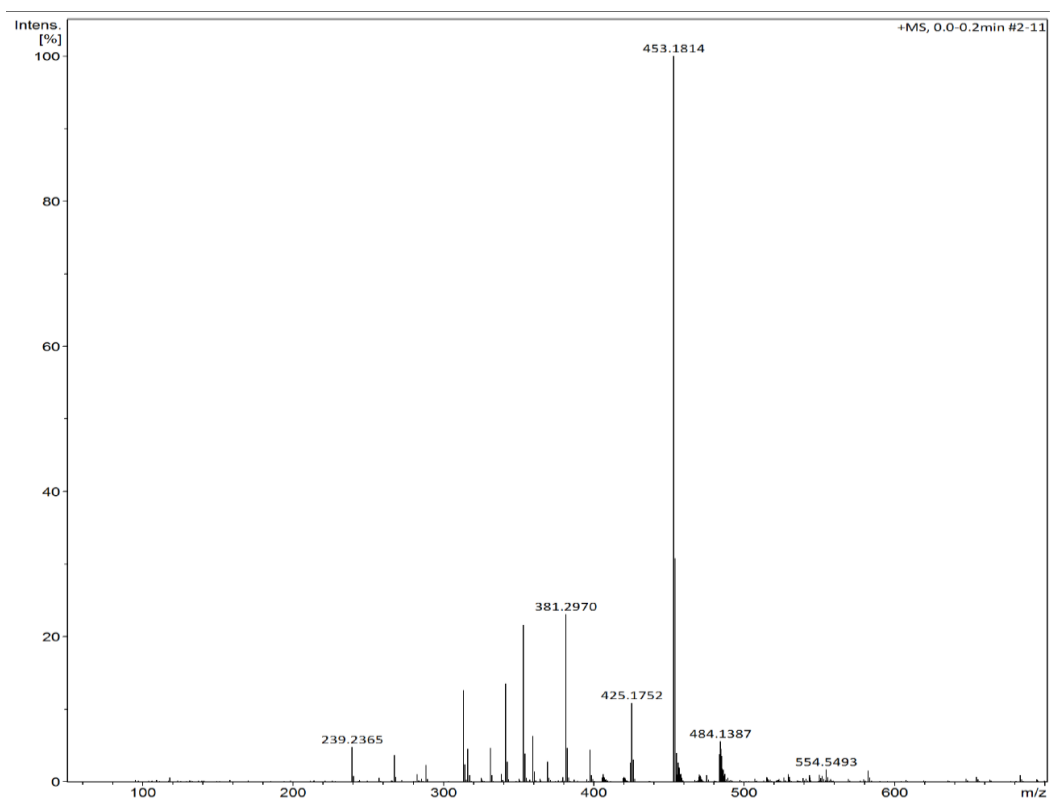


Figure S22. MS spectrum of 3A1.

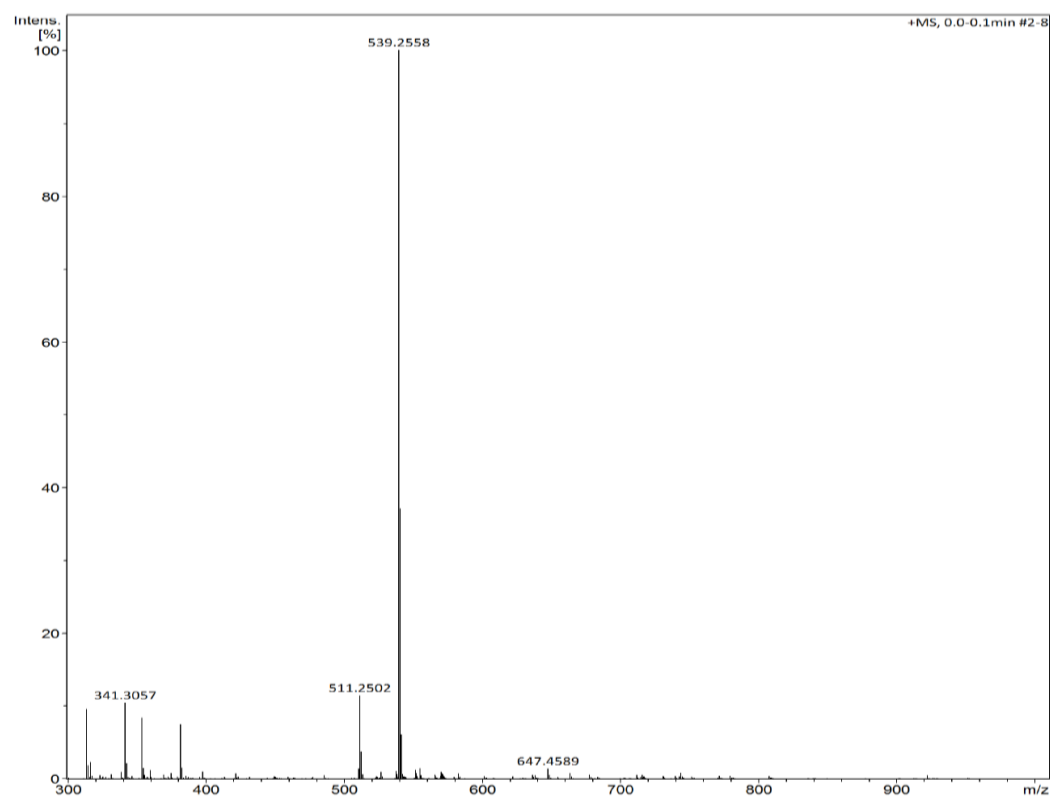


Figure S23. MS spectrum of 3A2.

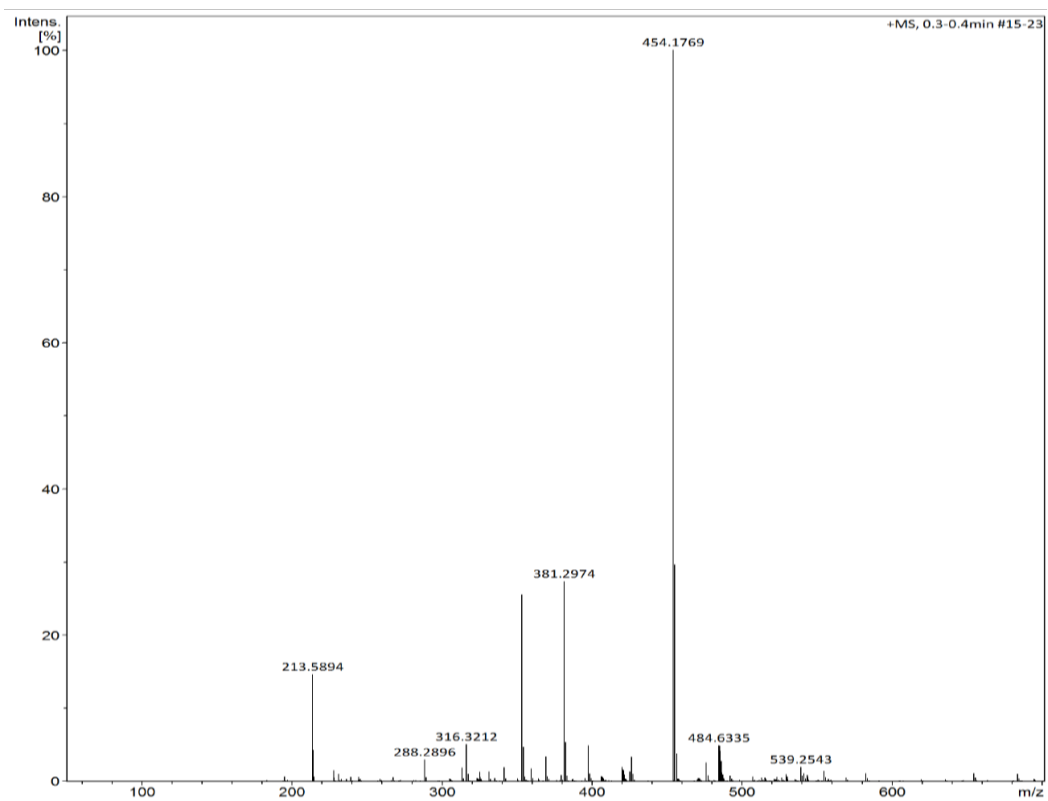


Figure S24. MS spectrum of 3A3.

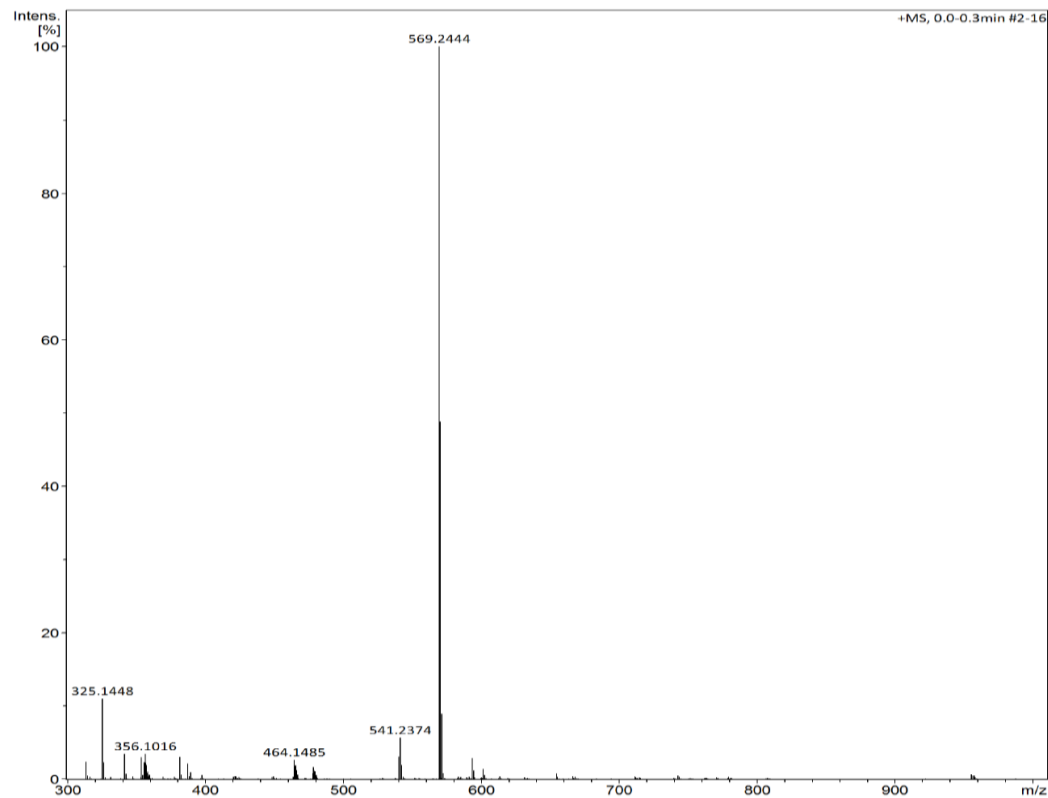


Figure S25. MS spectrum of 3A4.

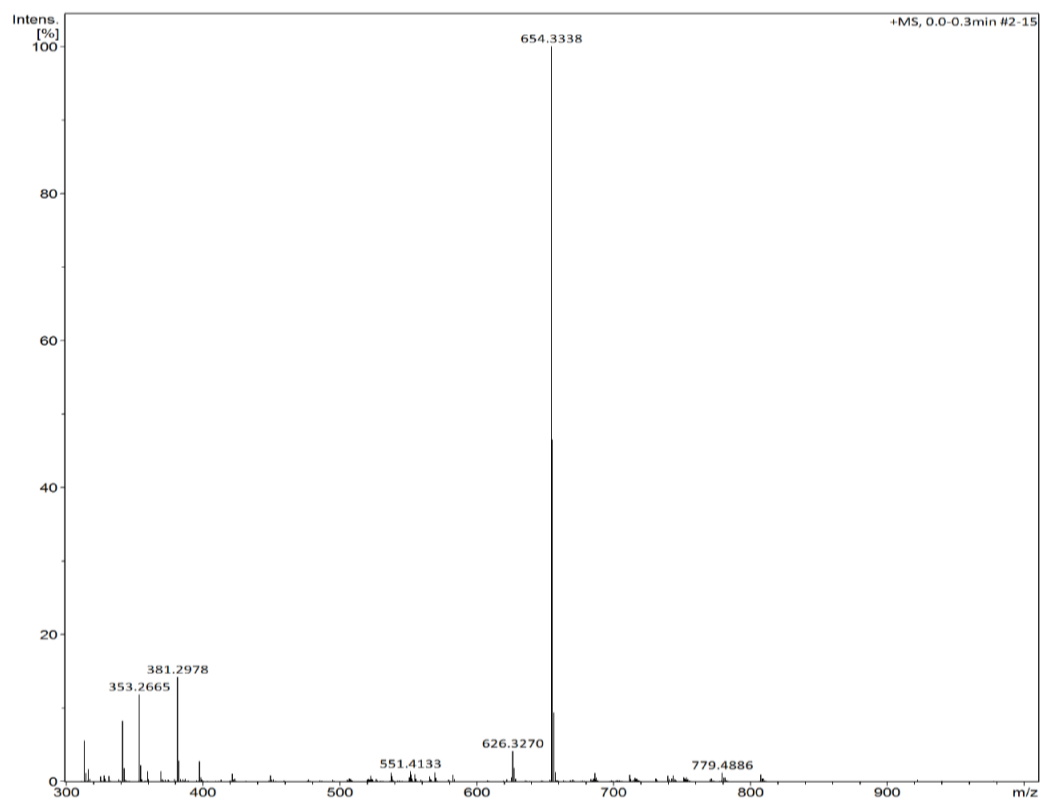


Figure S26. MS spectrum of 3A5.

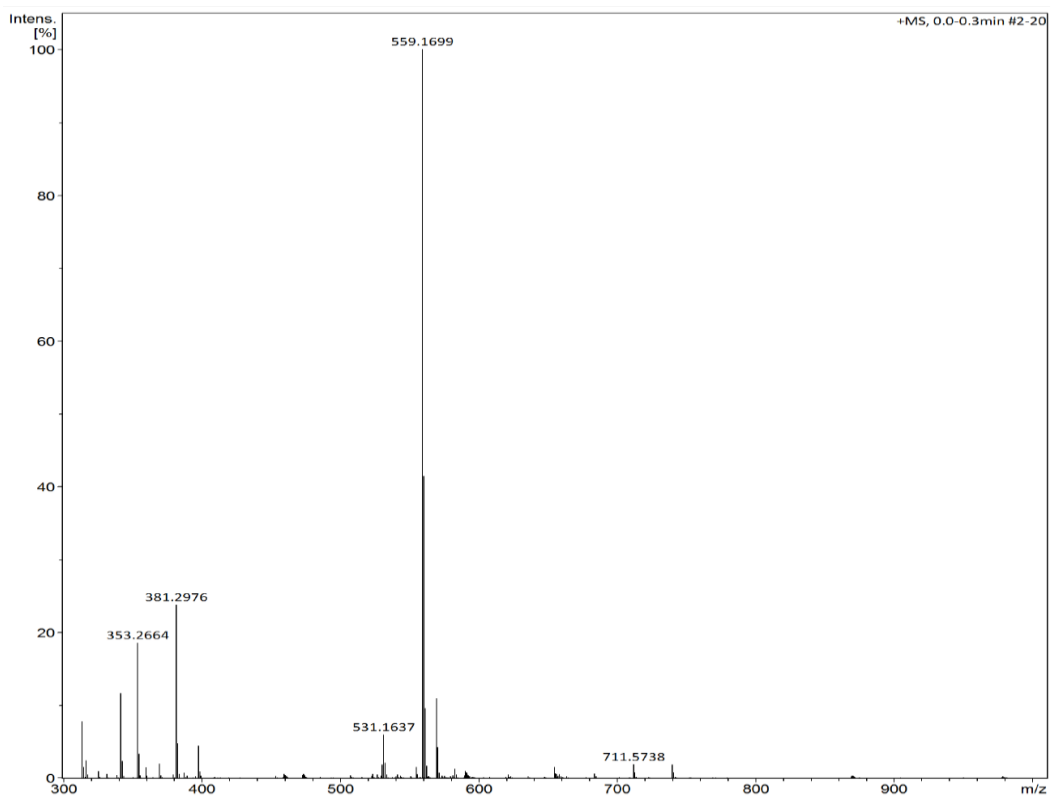


Figure S27. MS spectrum of 3A6.

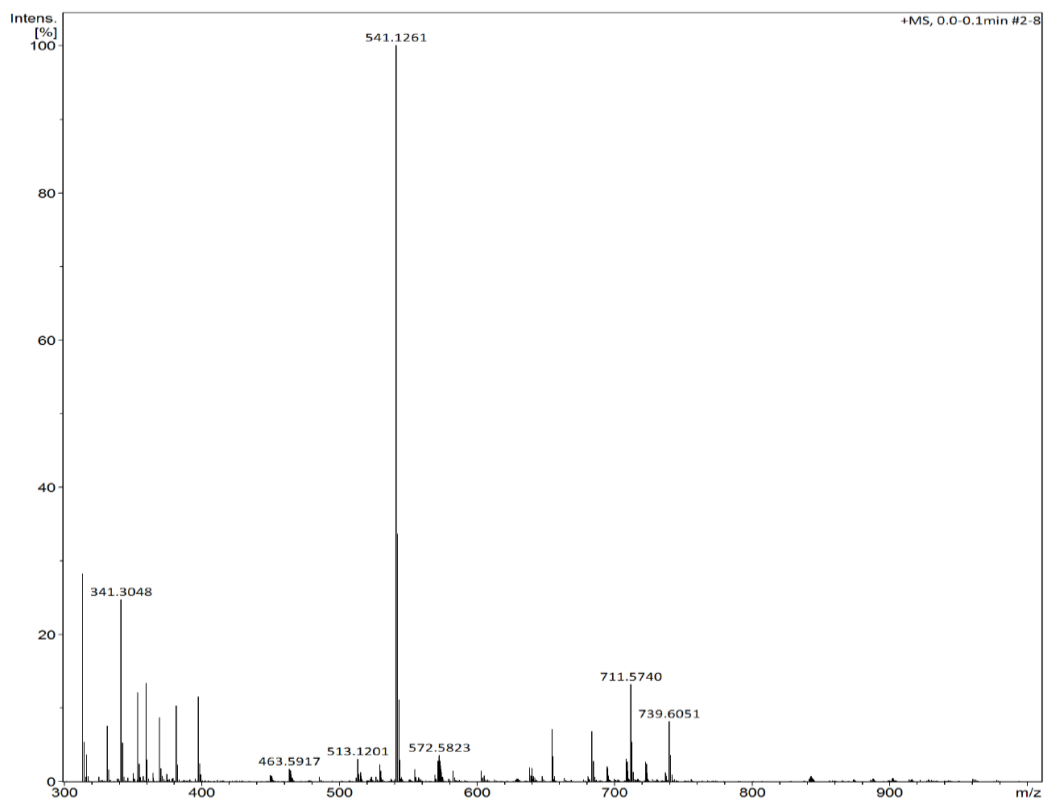


Figure S28. MS spectrum of 3A7.

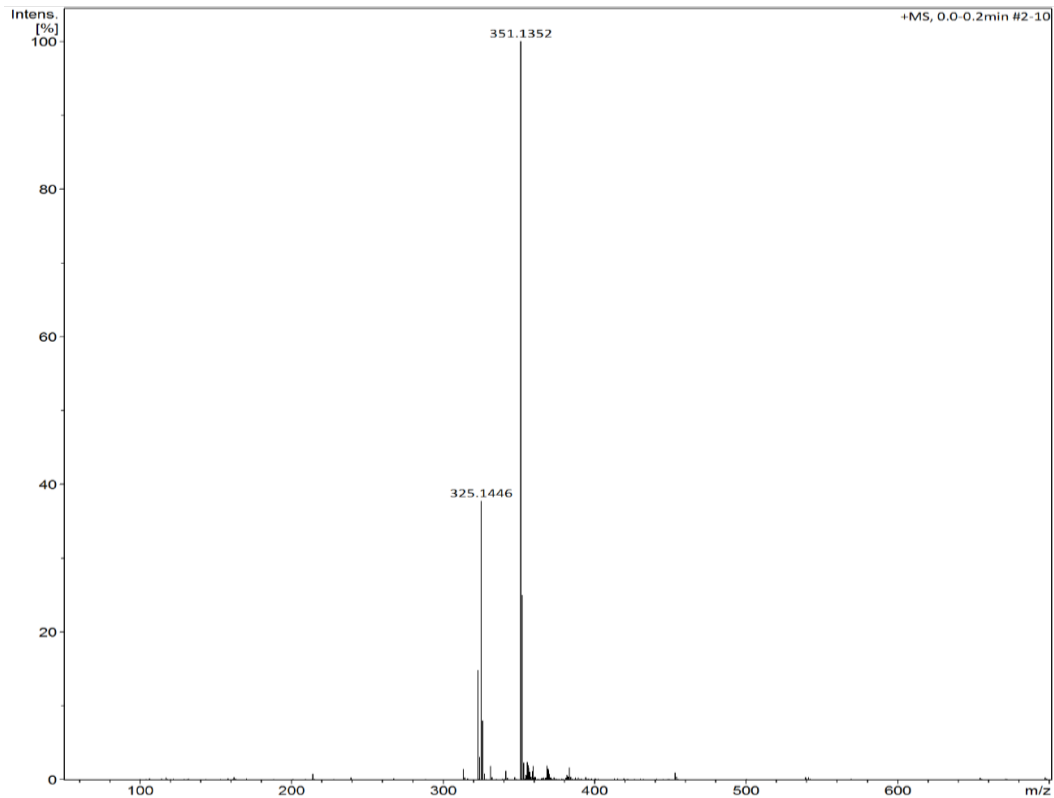


Figure S29. MS spectrum of 4.

Cartesian coordinates of DFT-optimized structure of **3A1** by B3LYP /6-31G**/CHCl₃:
Charge = 0; multiplicity=1

C	-4.175717000	-0.054245000	0.001640000
C	-5.177481000	-1.024635000	0.127018000
C	-6.522988000	-0.633768000	0.146166000
N	-6.905239000	0.649410000	0.062987000
C	-5.954300000	1.588818000	-0.049367000
C	-4.587608000	1.281082000	-0.090132000
C	-7.607015000	-1.655123000	0.278124000
C	-7.482794000	-2.915365000	-0.326085000
C	-8.515150000	-3.839595000	-0.183027000
C	-9.639248000	-3.479990000	0.557145000
C	-9.674478000	-2.201624000	1.117948000
N	-8.693288000	-1.302915000	0.989513000
C	-6.414289000	3.008089000	-0.151695000
N	-7.555914000	3.232065000	-0.827521000
C	-7.981525000	4.494762000	-0.934173000
C	-7.314249000	5.591469000	-0.384655000
C	-6.136255000	5.355308000	0.320444000
C	-5.677607000	4.045323000	0.439943000
C	-2.740452000	-0.427690000	-0.034007000
C	-2.318217000	-1.610045000	-0.665593000
C	-0.975088000	-1.965778000	-0.710001000
C	-0.024950000	-1.139725000	-0.102264000
C	-0.419843000	0.035523000	0.542636000
C	-1.766032000	0.387072000	0.564681000
N	1.348013000	-1.506713000	-0.142240000
C	2.450581000	-0.711241000	-0.110518000
C	3.521461000	-1.584105000	-0.170910000
N	3.012010000	-2.857197000	-0.235104000
N	1.712732000	-2.815281000	-0.217132000
C	4.965692000	-1.317899000	-0.179786000
C	5.876754000	-2.384312000	-0.259341000
C	7.248939000	-2.142655000	-0.269494000
C	7.736363000	-0.835385000	-0.201533000
C	6.837830000	0.231150000	-0.122346000
C	5.464831000	-0.006651000	-0.111136000
H	-4.912955000	-2.068374000	0.251873000
H	-3.857530000	2.068929000	-0.237343000
H	-6.606463000	-3.157729000	-0.917317000
H	-8.444832000	-4.817686000	-0.649112000
H	-10.469491000	-4.164407000	0.696000000
H	-10.536390000	-1.885887000	1.703169000
H	-8.905336000	4.640856000	-1.491213000
H	-7.712001000	6.593659000	-0.504788000
H	-5.587523000	6.173168000	0.777475000
H	-4.776737000	3.826987000	1.003065000
H	-3.045414000	-2.245737000	-1.159873000
H	-0.655165000	-2.868110000	-1.216084000

H	0.309793000	0.658207000	1.048351000
H	-2.064478000	1.288804000	1.088884000
H	2.385999000	0.363402000	-0.079408000
H	5.496427000	-3.398472000	-0.312510000
H	7.939759000	-2.978416000	-0.331057000
H	7.206004000	1.251407000	-0.068762000
H	4.779859000	0.833826000	-0.048288000
H	8.806025000	-0.648953000	-0.210047000

Cartesian coordinates of DFT-optimized structure of **3A2** by B3LYP /6-31G**/CHCl₃:
Charge = 0; multiplicity=1

C	-2.044175000	-1.042298000	0.018224000
C	-3.259358000	-1.717028000	-0.152511000
C	-3.277737000	-3.117933000	-0.174438000
N	-2.165470000	-3.858368000	-0.049294000
C	-0.994031000	-3.222929000	0.108972000
C	-0.891648000	-1.826002000	0.154278000
C	-4.565603000	-3.854783000	-0.361556000
C	-5.759370000	-3.363079000	0.187690000
C	-6.940316000	-4.074754000	-0.011243000
C	-6.895967000	-5.254403000	-0.751103000
C	-5.660650000	-5.668057000	-1.253600000
N	-4.518147000	-4.997754000	-1.070672000
C	0.224796000	-4.076822000	0.257597000
N	0.076524000	-5.244424000	0.910575000
C	1.155532000	-6.020493000	1.057284000
C	2.423098000	-5.692828000	0.571917000
C	2.571632000	-4.486828000	-0.109581000
C	1.457925000	-3.665562000	-0.270369000
C	-1.982545000	0.439394000	0.051634000
C	-3.012282000	1.191032000	0.643085000
C	-2.961437000	2.579663000	0.682312000
C	-1.873603000	3.244579000	0.108154000
C	-0.841470000	2.520611000	-0.495236000
C	-0.897142000	1.130236000	-0.511251000
N	-1.827442000	4.665145000	0.138374000
C	-0.745076000	5.489899000	0.117830000
C	-1.270667000	6.768871000	0.155847000
N	-2.638008000	6.650330000	0.198390000
N	-2.974043000	5.392787000	0.186593000
C	-0.599974000	8.073426000	0.161084000
C	-1.345082000	9.255266000	0.334332000
C	-0.725980000	10.495848000	0.338927000
C	0.664816000	10.597146000	0.170423000
C	1.421959000	9.430518000	-0.002229000
C	0.786334000	8.188627000	-0.006725000
H	-4.174971000	-1.158978000	-0.310862000
H	0.068416000	-1.356953000	0.336588000
H	-5.758776000	-2.453959000	0.778785000
H	-7.874283000	-3.717197000	0.411200000
H	-7.788495000	-5.843506000	-0.933293000
H	-5.587844000	-6.585068000	-1.835676000
H	1.001673000	-6.954886000	1.594171000
H	3.260272000	-6.366157000	0.722235000
H	3.533924000	-4.192454000	-0.516981000
H	1.537870000	-2.732620000	-0.817331000
H	-3.849858000	0.683764000	1.110160000
H	-3.748264000	3.150847000	1.158920000

H	-0.014605000	3.033776000	-0.973284000
H	-0.102626000	0.579127000	-1.003256000
H	0.265356000	5.116925000	0.114342000
H	-2.419541000	9.187471000	0.464984000
H	-1.301100000	11.406449000	0.472043000
H	2.495594000	9.476151000	-0.136234000
O	1.175900000	11.859260000	0.188380000
C	2.584990000	12.038644000	-0.004875000
C	2.872051000	13.532365000	0.030515000
C	4.356829000	13.847298000	-0.189358000
C	4.662234000	15.350137000	-0.162609000
C	6.143050000	15.666036000	-0.392426000
H	1.392588000	7.299077000	-0.150958000
H	2.884661000	11.606898000	-0.969606000
H	3.138496000	11.515096000	0.786640000
H	2.541936000	13.933417000	0.996657000
H	2.266747000	14.024341000	-0.740810000
H	4.680810000	13.430073000	-1.153049000
H	4.957908000	13.342835000	0.580126000
H	4.342827000	15.766154000	0.802195000
H	4.056524000	15.854392000	-0.927377000
H	6.771185000	15.202811000	0.377049000
H	6.329369000	16.744607000	-0.368974000
H	6.480939000	15.290574000	-1.365025000

Cartesian coordinates of DFT-optimized structure of **3A3** by B3LYP /6-31G**/CHCl₃:
Charge = 0; multiplicity=1

C	-4.158496000	-0.067576000	-0.014122000
C	-5.165145000	-1.031271000	0.122521000
C	-6.507803000	-0.631340000	0.153119000
N	-6.882280000	0.654034000	0.068561000
C	-5.926451000	1.586899000	-0.056157000
C	-4.562155000	1.270106000	-0.106863000
C	-7.597336000	-1.644653000	0.300575000
C	-7.487571000	-2.909013000	-0.297802000
C	-8.524508000	-3.825545000	-0.139093000
C	-9.638688000	-3.454415000	0.610334000
C	-9.659834000	-2.172725000	1.164196000
N	-8.674072000	-1.281315000	1.020814000
C	-6.378160000	3.008650000	-0.161455000
N	-7.525277000	3.236377000	-0.826685000
C	-7.943397000	4.501297000	-0.936637000
C	-7.262944000	5.596691000	-0.400860000
C	-6.079300000	5.356707000	0.293417000
C	-5.628346000	4.044363000	0.416219000
C	-2.725908000	-0.449955000	-0.059461000
C	-2.313874000	-1.629680000	-0.702256000
C	-0.973052000	-1.993262000	-0.755353000
C	-0.015594000	-1.178133000	-0.144421000
C	-0.400377000	-0.005781000	0.511675000
C	-1.744126000	0.354051000	0.541581000
N	1.355796000	-1.552258000	-0.192376000
C	2.462085000	-0.768028000	-0.121717000
C	3.520829000	-1.649745000	-0.210939000
N	3.010359000	-2.915012000	-0.330721000
N	1.711284000	-2.863276000	-0.318462000
C	4.959035000	-1.360844000	-0.194050000
C	5.904745000	-2.389040000	-0.315319000
C	7.255997000	-2.057265000	-0.291708000
C	7.621341000	-0.718426000	-0.149462000
C	6.605960000	0.232773000	-0.036774000
N	5.302291000	-0.065109000	-0.056514000
H	-4.905771000	-2.076264000	0.247974000
H	-3.827734000	2.052237000	-0.262617000
H	-6.618885000	-3.160579000	-0.896436000
H	-8.465312000	-4.806694000	-0.600275000
H	-10.471924000	-4.132559000	0.761483000
H	-10.513732000	-1.847933000	1.756185000
H	-8.871975000	4.650362000	-1.484903000
H	-7.655005000	6.600863000	-0.523133000
H	-5.520144000	6.173529000	0.739526000
H	-4.723035000	3.823460000	0.971163000
H	-3.047391000	-2.257017000	-1.197940000
H	-0.661183000	-2.893448000	-1.270043000

H	0.334750000	0.609544000	1.018167000
H	-2.034879000	1.253986000	1.073173000
H	2.430239000	0.305015000	-0.044638000
H	5.572041000	-3.414823000	-0.423783000
H	8.011693000	-2.831495000	-0.383049000
H	6.853033000	1.286792000	0.075235000
H	8.662500000	-0.414927000	-0.125996000

Cartesian coordinates of DFT-optimized structure of **3A4** by B3LYP /6-31G**/CHCl₃:
Charge = 0; multiplicity=1

C	-4.335933000	-0.860298000	-0.845813000
C	-5.491282000	-1.336606000	-1.461445000
C	-5.397014000	-2.448059000	-2.296198000
C	-4.141566000	-3.033940000	-2.469930000
N	-3.023450000	-2.590152000	-1.885944000
C	-3.116988000	-1.512605000	-1.084974000
C	-1.854239000	-1.030684000	-0.445113000
C	-1.637445000	0.339756000	-0.250400000
C	-0.448501000	0.775240000	0.347629000
C	0.477614000	-0.207632000	0.718293000
C	0.190332000	-1.557828000	0.475808000
N	-0.955922000	-1.963064000	-0.092499000
C	1.165271000	-2.622643000	0.866500000
N	0.653406000	-3.793975000	1.288159000
C	1.508434000	-4.757507000	1.646575000
C	2.897554000	-4.621556000	1.606264000
C	3.424197000	-3.410830000	1.161906000
C	2.547498000	-2.395487000	0.786032000
C	-0.184257000	2.217411000	0.575673000
C	-1.225499000	3.094489000	0.924593000
C	-0.990562000	4.450021000	1.125318000
C	0.307632000	4.950051000	0.987960000
C	1.363013000	4.096657000	0.655767000
C	1.111040000	2.744096000	0.446292000
N	0.546425000	6.337647000	1.190144000
N	-0.224874000	7.053835000	2.051104000
N	0.209109000	8.280115000	2.035446000
C	1.268533000	8.389936000	1.168870000
C	1.488594000	7.137490000	0.623039000
C	1.960663000	9.662629000	0.934293000
C	1.536388000	10.824730000	1.605810000
C	2.171742000	12.047565000	1.400993000
C	3.247112000	12.116333000	0.511780000
C	3.680737000	10.958650000	-0.166227000
C	3.047179000	9.742449000	0.040752000
H	-4.382419000	-0.011791000	-0.172047000
H	-6.446846000	-0.852743000	-1.284261000
H	-6.268151000	-2.856416000	-2.797384000
H	-4.030136000	-3.903874000	-3.114741000
H	-2.367737000	1.060162000	-0.600129000
H	1.392571000	0.070756000	1.228406000
H	1.061250000	-5.689595000	1.987509000
H	3.539181000	-5.441923000	1.909801000
H	4.497505000	-3.259722000	1.100164000
H	2.928968000	-1.451011000	0.414098000
H	-2.232602000	2.712011000	1.053055000
H	-1.798652000	5.120789000	1.389726000

H	2.374300000	4.478221000	0.570199000
H	1.933323000	2.094598000	0.165364000
H	2.186692000	6.774565000	-0.112676000
C	4.093307000	13.242318000	0.101222000
C	5.043891000	12.769997000	-0.827258000
C	4.864748000	11.273100000	-1.081278000
C	4.073045000	14.587499000	0.479285000
C	5.012727000	15.457644000	-0.078792000
C	5.957283000	14.990275000	-0.999786000
C	5.976686000	13.641984000	-1.378663000
C	4.523771000	10.989771000	-2.561932000
C	6.123033000	10.475741000	-0.669824000
H	0.699566000	10.754342000	2.291690000
H	1.827502000	12.931252000	1.930620000
H	3.386802000	8.853655000	-0.484003000
H	3.341817000	14.954846000	1.193869000
H	5.010421000	16.506134000	0.204480000
H	6.681411000	15.679210000	-1.424690000
H	6.714295000	13.290023000	-2.095079000
H	3.631925000	11.540811000	-2.873874000
H	4.339361000	9.921801000	-2.717869000
H	5.354071000	11.285530000	-3.211335000
H	6.384596000	10.662708000	0.375646000
H	6.977944000	10.757573000	-1.292915000
H	5.956232000	9.400873000	-0.794535000

Cartesian coordinates of DFT-optimized structure of **3A5** by B3LYP /6-31G**/CHCl₃:
Charge = 0; multiplicity=1

C	-1.861609000	-0.907393000	0.142530000
C	-2.996007000	-1.477144000	-0.449100000
C	-3.038131000	-2.858660000	-0.680514000
N	-2.018323000	-3.675021000	-0.373263000
C	-0.922700000	-3.139987000	0.186920000
C	-0.808980000	-1.772024000	0.467822000
C	-4.241980000	-3.485825000	-1.308449000
C	-5.528265000	-2.988767000	-1.049035000
C	-6.625082000	-3.597887000	-1.654568000
C	-6.407548000	-4.683918000	-2.499632000
C	-5.092601000	-5.112036000	-2.692588000
N	-4.029344000	-4.539487000	-2.118533000
C	0.191990000	-4.077754000	0.525494000
N	-0.151866000	-5.316848000	0.922926000
C	0.830559000	-6.168511000	1.235225000
C	2.188449000	-5.849829000	1.170410000
C	2.541235000	-4.568969000	0.750992000
C	1.530210000	-3.668391000	0.423048000
C	-1.777689000	0.548958000	0.412894000
C	-2.915512000	1.281270000	0.792595000
C	-2.846140000	2.647634000	1.040103000
C	-1.618790000	3.307032000	0.921279000
C	-0.470355000	2.599347000	0.555804000
C	-0.557584000	1.234765000	0.298532000
N	-1.545248000	4.703378000	1.178000000
C	-0.664686000	5.619658000	0.690643000
C	-1.039464000	6.818702000	1.269886000
N	-2.124518000	6.565144000	2.072498000
N	-2.428680000	5.300055000	2.020278000
C	-0.467717000	8.162827000	1.123112000
C	-1.141038000	9.274448000	1.682513000
C	-0.644860000	10.567425000	1.571325000
C	0.559578000	10.754723000	0.882743000
C	1.253710000	9.654197000	0.308464000
C	0.736477000	8.363771000	0.436435000
H	-3.820558000	-0.848236000	-0.764301000
H	0.072099000	-1.393002000	0.972442000
H	-5.669452000	-2.156748000	-0.368060000
H	-7.629918000	-3.234825000	-1.461901000
H	-7.229035000	-5.191463000	-2.994002000
H	-4.884583000	-5.958062000	-3.345297000
H	0.517747000	-7.160032000	1.557774000
H	2.939138000	-6.586285000	1.436770000
H	3.583708000	-4.276346000	0.671916000
H	1.775204000	-2.672330000	0.070946000
H	-3.867816000	0.775230000	0.910835000
H	-3.728356000	3.204870000	1.329600000

H	0.487294000	3.102031000	0.481038000
H	0.336226000	0.701426000	-0.007195000
H	0.098221000	5.364064000	-0.025294000
H	-2.072679000	9.102460000	2.209750000
H	-1.187146000	11.400227000	2.006232000
H	1.274496000	7.521861000	0.010526000
C	2.441654000	10.197757000	-0.316917000
C	2.408795000	11.601011000	-0.091795000
N	1.272108000	11.920485000	0.644066000
C	3.419266000	12.441467000	-0.572156000
C	4.469563000	11.855958000	-1.276696000
C	4.518116000	10.468816000	-1.504917000
C	3.508571000	9.635950000	-1.028790000
C	0.867937000	13.264159000	1.038480000
C	0.028544000	13.993505000	-0.020361000
C	-0.358796000	15.409543000	0.421255000
C	-1.195018000	16.162094000	-0.621341000
C	-1.574615000	17.582835000	-0.186700000
C	-2.409303000	18.339889000	-1.226837000
C	-2.784138000	19.762665000	-0.794328000
C	-3.617041000	20.512938000	-1.838180000
H	3.392429000	13.513683000	-0.408844000
H	5.265881000	12.487653000	-1.659168000
H	5.350592000	10.046230000	-2.058935000
H	3.548204000	8.565152000	-1.207756000
H	1.774663000	13.835190000	1.263653000
H	0.311184000	13.185569000	1.977504000
H	-0.874425000	13.405829000	-0.228191000
H	0.596493000	14.037254000	-0.958119000
H	0.552341000	15.984688000	0.638624000
H	-0.918359000	15.356825000	1.365847000
H	-2.108902000	15.589887000	-0.834305000
H	-0.637612000	16.208284000	-1.567508000
H	-0.659158000	18.152753000	0.027406000
H	-2.131068000	17.535895000	0.760296000
H	-3.326901000	17.772620000	-1.439293000
H	-1.854574000	18.384676000	-2.175129000
H	-1.866948000	20.328956000	-0.582200000
H	-3.338572000	19.717863000	0.153007000
H	-3.074778000	20.603365000	-2.786450000
H	-3.866978000	21.524101000	-1.500410000
H	-4.557367000	19.989131000	-2.045066000

Cartesian coordinates of DFT-optimized structure of **3A6** by B3LYP /6-31G**/CHCl₃:

Charge = 0; multiplicity=1

C	-4.349675000	-1.101380000	0.347882000
C	-5.579763000	-1.738488000	0.200526000
C	-5.643041000	-2.908543000	-0.553042000
C	-4.460979000	-3.388546000	-1.120561000
N	-3.272620000	-2.790144000	-0.987644000
C	-3.216141000	-1.655832000	-0.265659000
C	-1.878823000	-0.998812000	-0.136789000
C	-1.778443000	0.398264000	-0.096883000
C	-0.519037000	0.999529000	0.016784000
C	0.590583000	0.149116000	0.093292000
C	0.404909000	-1.239021000	0.046724000
N	-0.806733000	-1.803881000	-0.073559000
C	1.577515000	-2.163321000	0.137636000
N	1.511459000	-3.303669000	-0.574252000
C	2.550225000	-4.143093000	-0.508854000
C	3.695025000	-3.908495000	0.255464000
C	3.757108000	-2.730724000	0.996960000
C	2.684299000	-1.843855000	0.938811000
C	-0.367739000	2.475335000	0.036599000
C	-1.320003000	3.287826000	0.675326000
C	-1.184775000	4.671126000	0.705089000
C	-0.089256000	5.267846000	0.074226000
C	0.865721000	4.483396000	-0.578018000
C	0.726491000	3.098766000	-0.584958000
N	0.044624000	6.683717000	0.098839000
N	-1.054020000	7.481019000	0.174368000
N	-0.640476000	8.714568000	0.181253000
C	0.729480000	8.747551000	0.108625000
C	1.174316000	7.438868000	0.055070000
C	1.480568000	10.009360000	0.106797000
C	0.788577000	11.232825000	0.243395000
C	1.464305000	12.446377000	0.247936000
C	2.854833000	12.442856000	0.115394000
C	3.573987000	11.234122000	-0.022908000
C	2.872972000	10.022100000	-0.026583000
H	-4.265545000	-0.201861000	0.947651000
H	-6.468600000	-1.331493000	0.672681000
H	-6.577365000	-3.440726000	-0.696798000
H	-4.472076000	-4.300470000	-1.714922000
H	-2.666590000	1.009639000	-0.207050000
H	1.588650000	0.561992000	0.183152000
H	2.466347000	-5.052815000	-1.100760000
H	4.504771000	-4.630276000	0.268409000
H	4.619995000	-2.508033000	1.617019000
H	2.695093000	-0.931103000	1.524267000
H	-2.161832000	2.832287000	1.185966000
H	-1.911089000	5.289321000	1.217894000
H	1.695992000	4.946162000	-1.099760000

H	1.460003000	2.500568000	-1.115082000
H	2.158818000	7.003010000	0.023752000
H	-0.290286000	11.214750000	0.346566000
H	3.420151000	9.090806000	-0.136668000
C	5.007505000	11.459117000	-0.147205000
C	5.336887000	12.832793000	-0.098503000
S	3.908681000	13.860853000	0.096966000
C	6.658252000	13.273944000	-0.198885000
C	7.665083000	12.323081000	-0.350874000
C	7.357597000	10.954213000	-0.401734000
C	6.039852000	10.520605000	-0.300979000
H	0.916131000	13.376845000	0.353918000
H	6.896912000	14.331924000	-0.159883000
H	8.698039000	12.647475000	-0.430646000
H	8.155527000	10.227963000	-0.520660000
H	5.810213000	9.459969000	-0.341076000

Cartesian coordinates of DFT-optimized structure of **3A7** by B3LYP /6-31G**/CHCl₃:
Charge = 0; multiplicity=1

C	-1.702793000	-1.223116000	-0.213231000
C	-2.942421000	-1.714740000	0.213855000

C	-3.111822000	-3.091601000	0.412970000
N	-2.122040000	-3.977420000	0.221095000
C	-0.931557000	-3.518915000	-0.195340000
C	-0.682872000	-2.159171000	-0.423560000
C	-4.430748000	-3.634410000	0.863415000
C	-5.631317000	-3.039247000	0.446926000
C	-6.840647000	-3.571502000	0.888292000
C	-6.817608000	-4.681342000	1.730088000
C	-5.574833000	-5.209389000	2.085791000
N	-4.405578000	-4.711361000	1.670418000
C	0.145337000	-4.532758000	-0.417683000
N	0.165124000	-5.591991000	0.412380000
C	1.123140000	-6.507853000	0.234998000
C	2.099443000	-6.431652000	-0.760354000
C	2.071083000	-5.338139000	-1.623044000
C	1.080624000	-4.373587000	-1.451470000
C	-1.475986000	0.228707000	-0.420286000
C	-2.497833000	1.053998000	-0.920225000
C	-2.295845000	2.415632000	-1.115487000
C	-1.048885000	2.974291000	-0.819969000
C	-0.013293000	2.174198000	-0.330179000
C	-0.234213000	0.815430000	-0.127422000
N	-0.839477000	4.366253000	-1.026733000
C	0.020260000	5.208133000	-0.392419000
C	-0.182674000	6.436689000	-0.995154000
N	-1.150643000	6.276505000	-1.958115000
N	-1.542854000	5.036985000	-1.977403000
H	-3.752369000	-1.030255000	0.437024000
H	0.295747000	-1.834227000	-0.757093000
H	-5.619757000	-2.191142000	-0.228759000
H	-7.781540000	-3.131559000	0.572399000
H	-7.732527000	-5.132053000	2.099695000
H	-5.518039000	-6.076819000	2.741022000
H	1.113431000	-7.348463000	0.926574000
H	2.850655000	-7.208661000	-0.854075000
H	2.800307000	-5.239767000	-2.421288000
H	1.019744000	-3.524489000	-2.123320000
H	-3.461831000	0.625850000	-1.174093000
H	-3.089231000	3.045167000	-1.498732000
H	0.961073000	2.599824000	-0.118300000
H	0.569687000	0.208654000	0.275424000
H	0.653810000	4.893633000	0.420376000
C	0.433549000	7.727473000	-0.753285000
C	0.118136000	8.928860000	-1.345710000
C	0.907687000	10.011605000	-0.881544000
C	1.838895000	9.654030000	0.071076000
S	1.744695000	7.927203000	0.390929000
C	2.804990000	10.480920000	0.764846000
S	3.219844000	12.080080000	0.162311000
C	4.331553000	12.342909000	1.469914000

C	4.388199000	11.263672000	2.308273000
C	3.521898000	10.205620000	1.910504000
H	-0.667362000	9.021661000	-2.085296000
H	0.781929000	11.031694000	-1.226422000
H	4.870989000	13.277466000	1.534489000
H	5.021125000	11.224282000	3.187111000
H	3.417589000	9.277883000	2.461979000