

SUPPORTING INFORMATION

Bypassing the stereoselectivity issue: transformations of Kinugasa adducts from chiral alkynes and non-chiral acyclic nitrones

Rafał Kutaszewicz, Barbara Grzeszczyk, Marcin Górecki, Olga Staszewska-Krajewska, Bartłomiej Furman, and
Marek Chmielewski*

Institute of Organic Chemistry of the Polish Academy of Sciences Kasprzaka 44/52, 01-224 Warsaw, Poland

Table of contents

1. HPLC with <i>on-line</i> ECD analyses	2
2. Separate ECD analyses	11
3. Theoretical computations.....	13
3.1. Predicting the structure of Cu (I) enolates of 11	13
3.2. Conformational search and TDDFT calculations of ECD and UV spectra of selected compounds	14
3.3. Cartesian coordinates, number of imaginary frequencies, and total energies of computed conformers.....	18
3.4. HPLC with <i>on-line</i> ECD analysis in combination with TDDFT calculations: a representative example	90
4. Crystallographic data	91
5. HPLC analyses of reference samples	93
6. NMR spectra	96
References.....	136

1. HPLC with *on-line* ECD analyses

The analysis of compounds **8–12**, **22**, **23** and **27** were performed using a Jasco analytical HPLC system equipped with PU-2089 *Plus* pump containing an inner degasser, column oven, a 20 μ L sample loop, and MD-2010 high resolution diode array UV–VIS detector (195–600 nm) with various analytical columns at 20 $^{\circ}$ C; the mobile phase was *i*-PrOH/hexane (the exact chromatographic conditions are given below). In all cases, the concentration of injected samples was *ca.* 1 mg/mL. ECD detection was obtained at one fixed wavelength by setting the flow cell attachment in the sample chamber of ECD Jasco J-815 spectropolarimeter, and then introducing an eluant from HPLC. The signal was processed by ChromNAV Jasco software. The *on-line* ECD spectra were recorded in the range 200–450 nm at room temperature. Solutions with about maximum ECD absorption (manual ‘stop-flow’) were trapped in the flow cell having a *ca.* 0.1 cm path length and then *on-line* ECD spectra under following conditions were recorded: 100 nm/min scanning speed, a step size of 0.2 nm, a bandwidth of 2 nm, a response time of 0.5 s, and an accumulation of 5 scans. The spectra were background corrected using the same mobile phase. The experimental ECD signal was not corrected for the concentration.

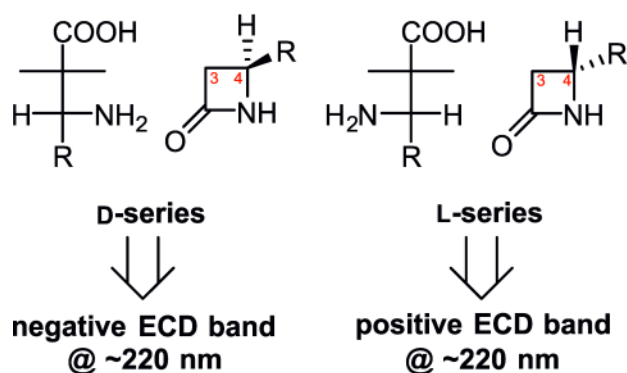
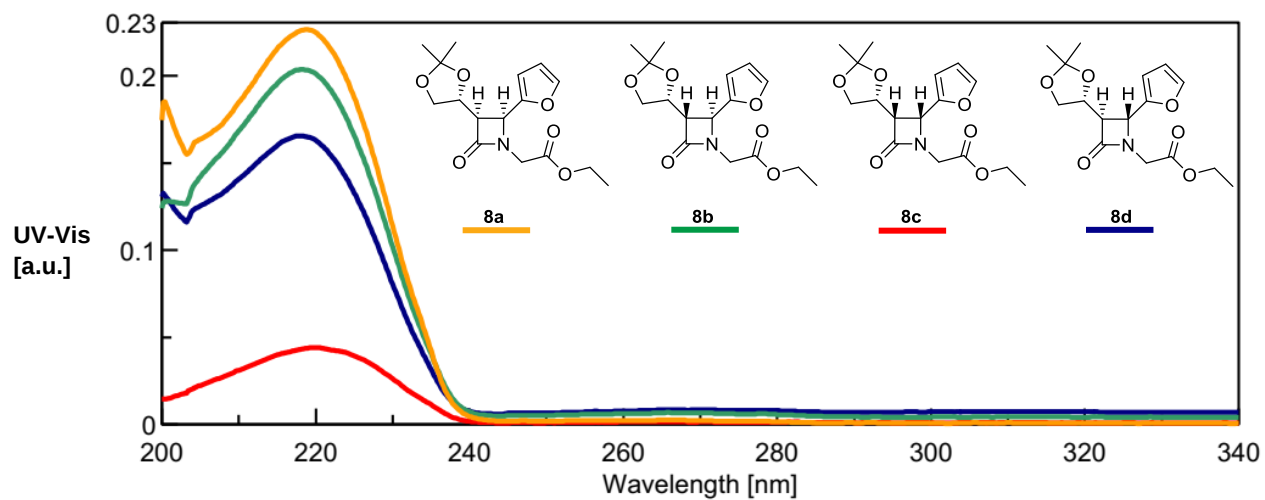
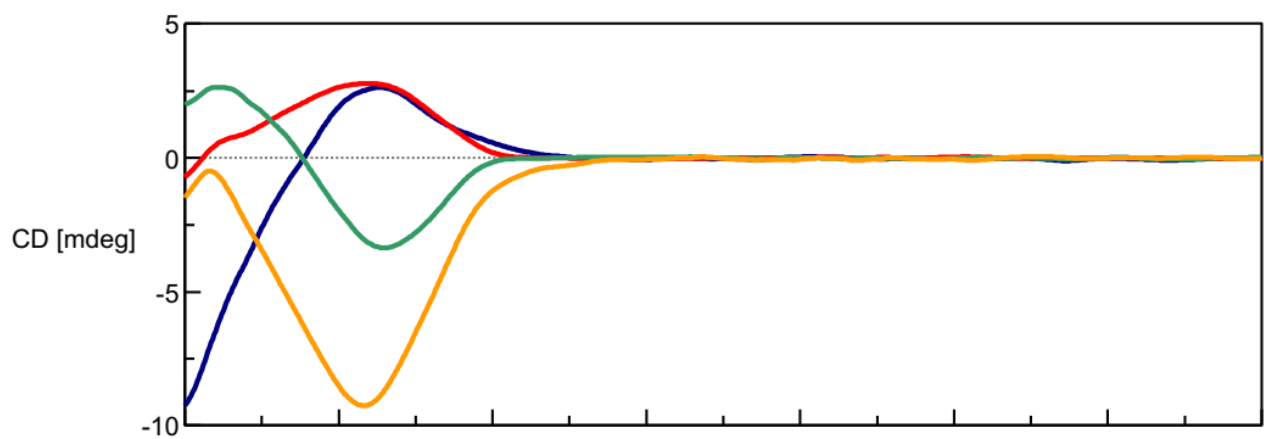
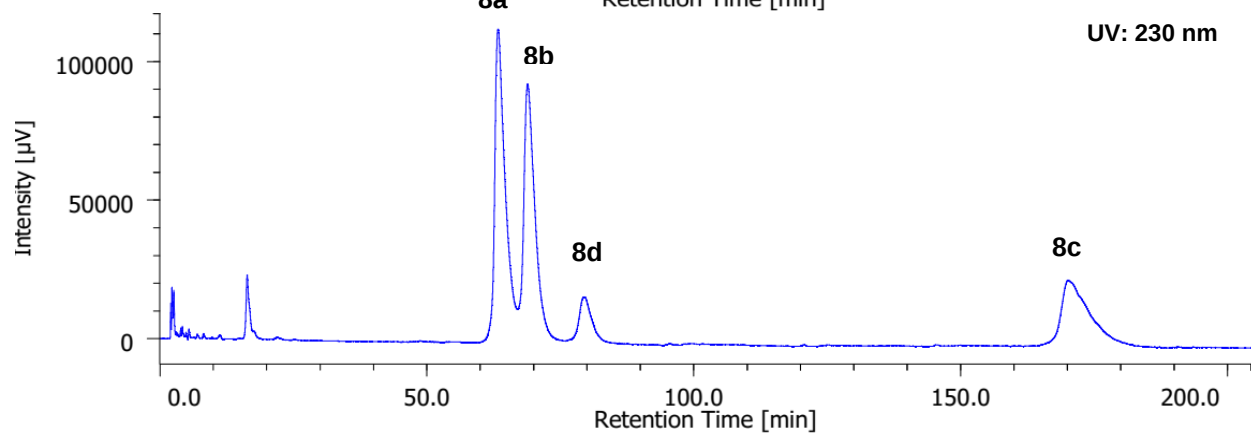
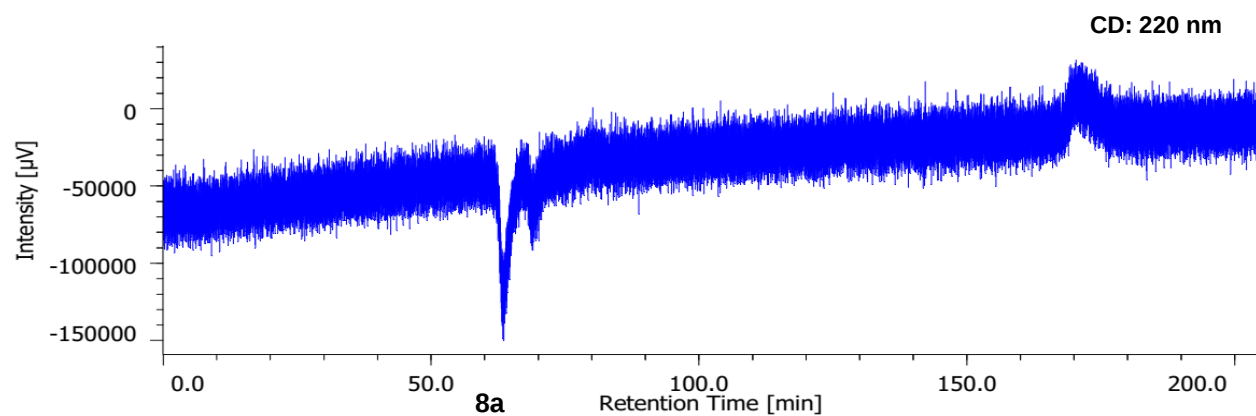
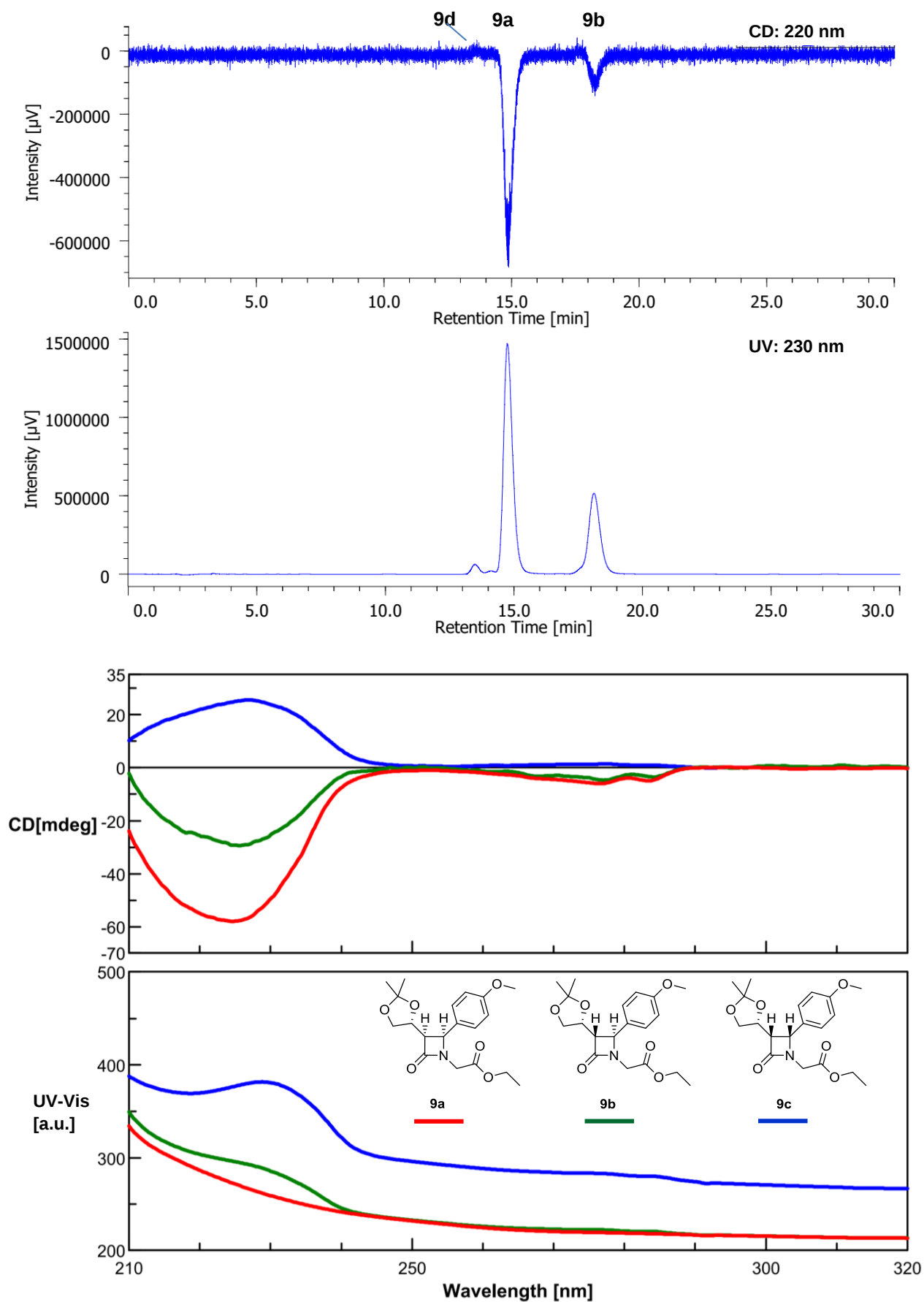


Figure S1. Definition of D- and L-series for β -lactams with reference to the helicity rule for the diagnostic $n\text{--}\pi^*$ ECD band.

separation conditions: Lichrospher[®] Si60/5 μ m, *i*-PrOH/Hexane 1/99, 1 mL/min

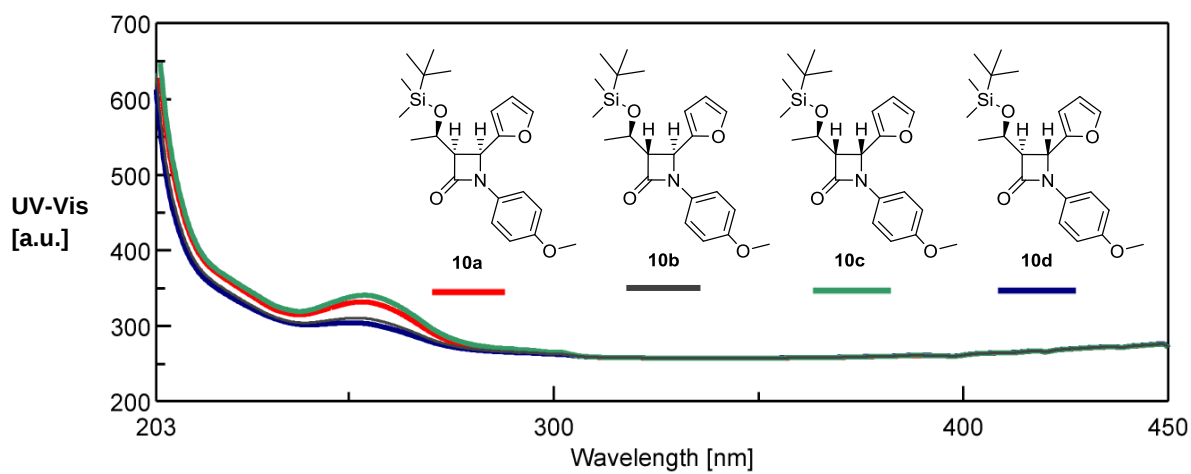
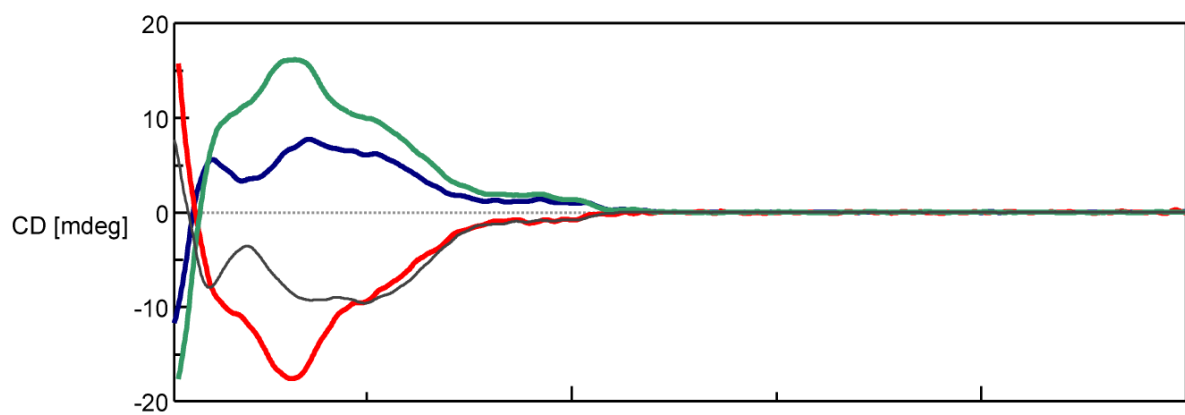
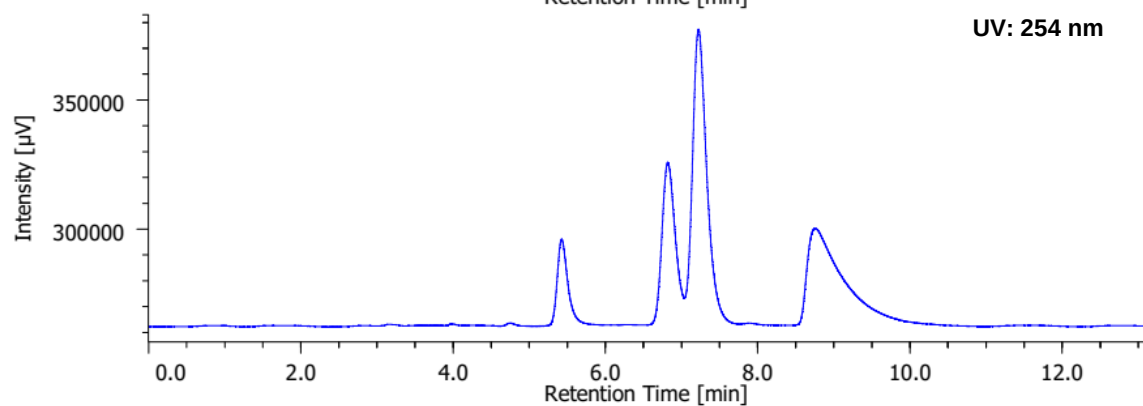
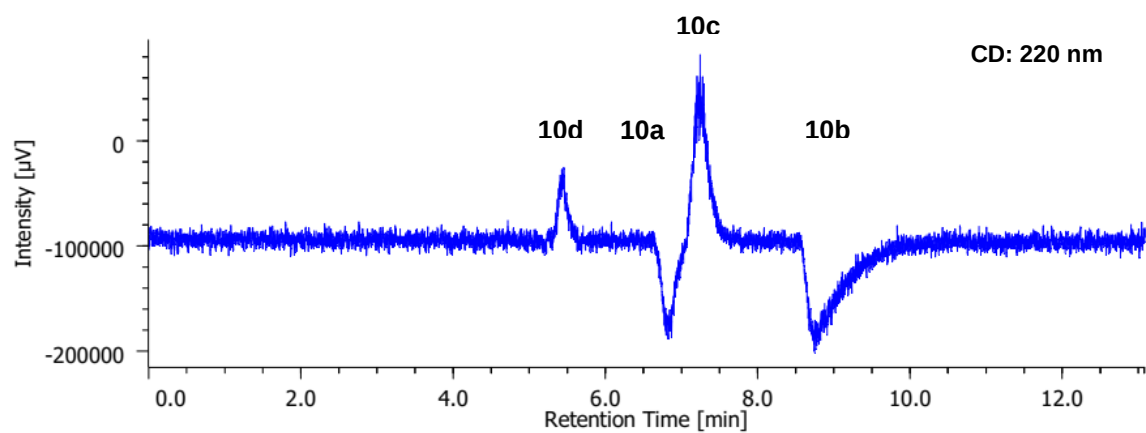


separation conditions: Daicel Chiralpak[®] AD-H, *i*-PrOH/Hexane 13/87, 1 mL/min

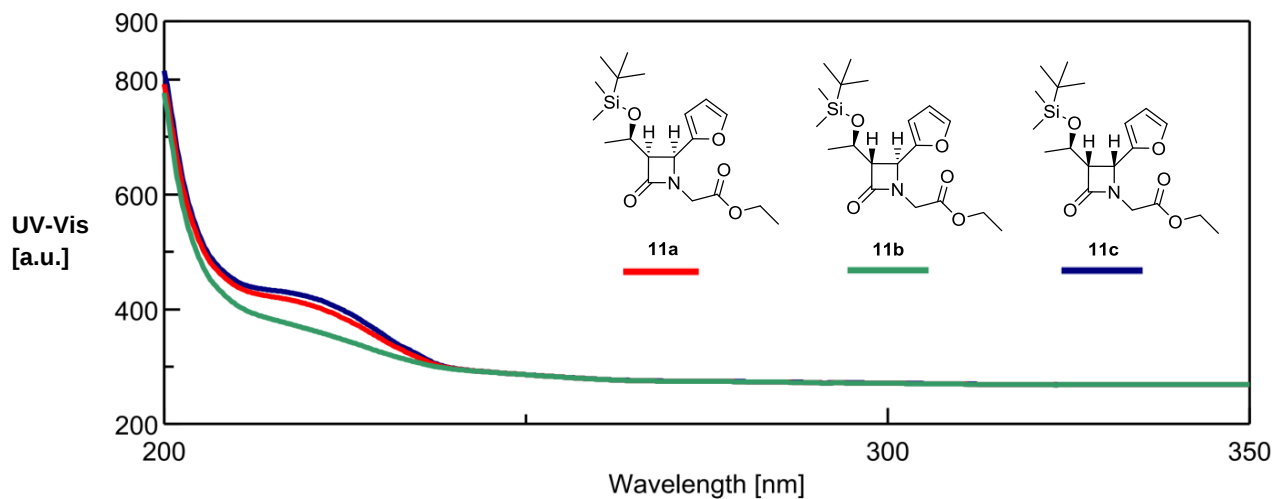
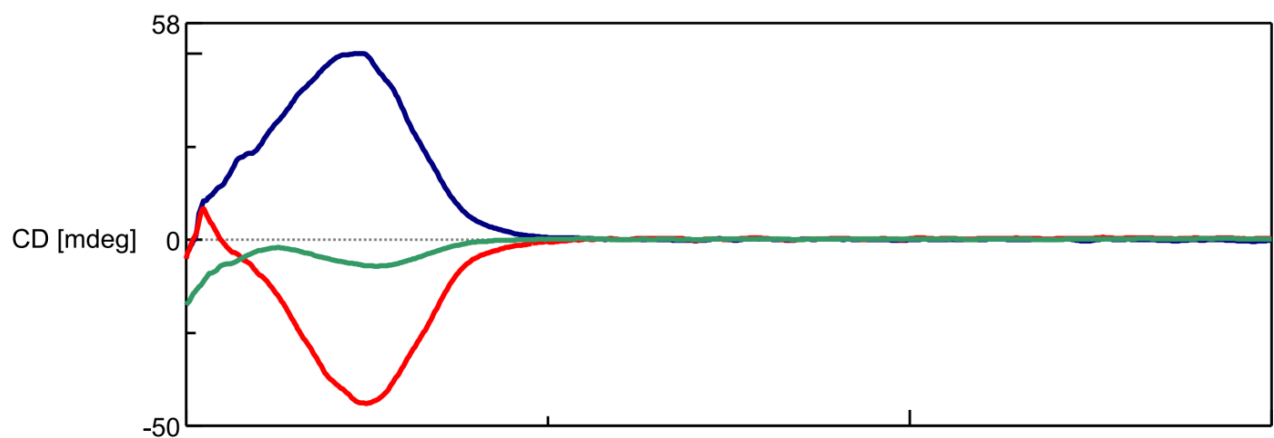
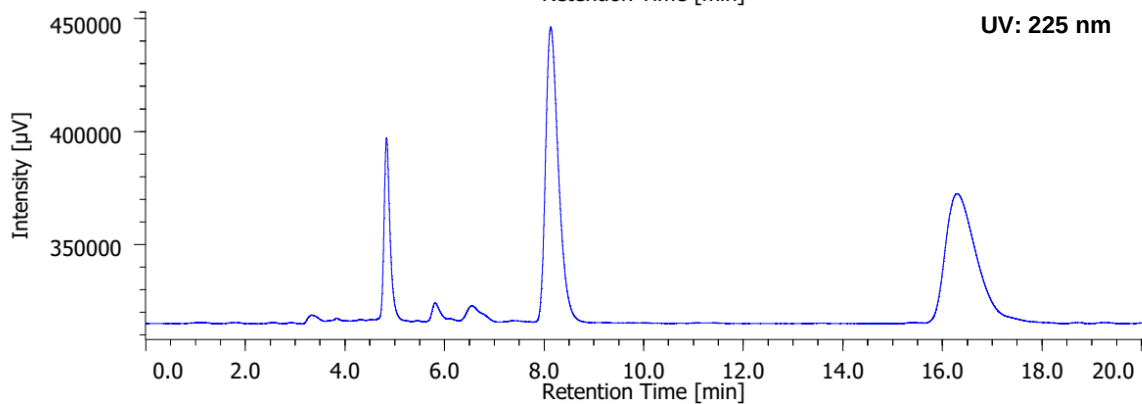
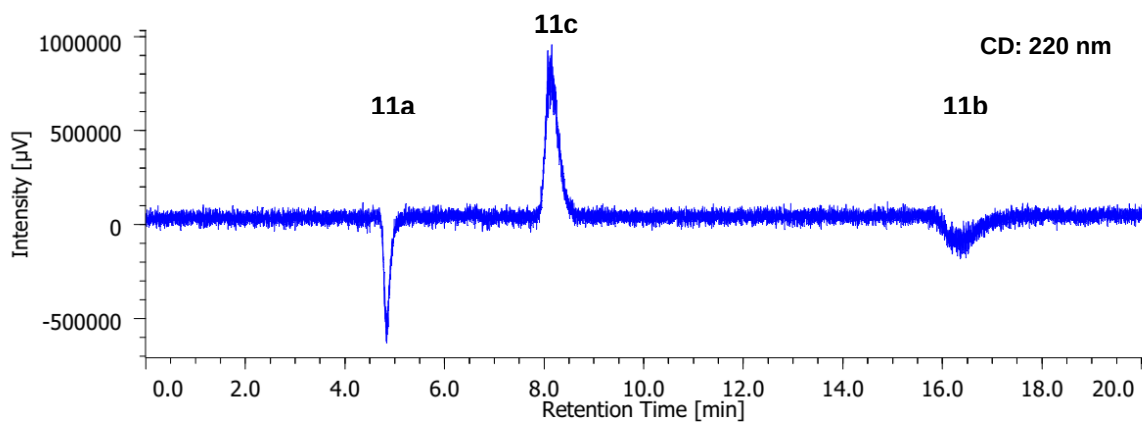


ECD and UV spectra of pure **9c** (blue) were obtained apart from HPLC-ECD analysis, normalized and imposed on the figure.

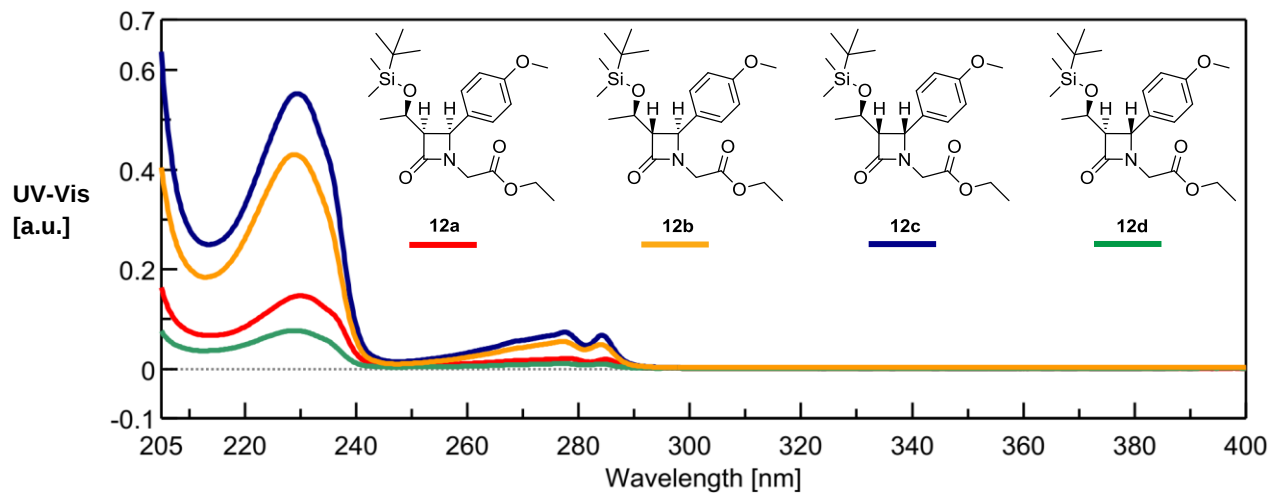
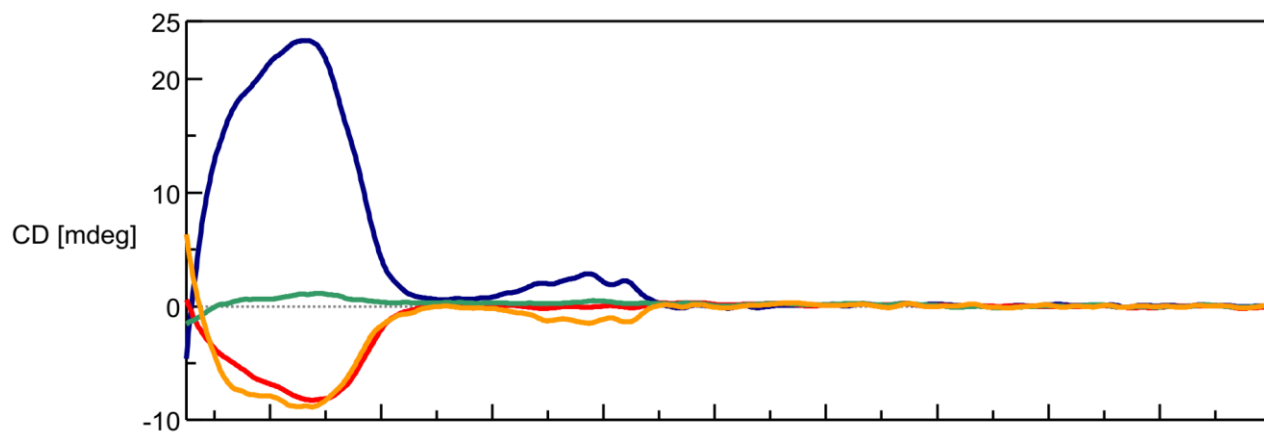
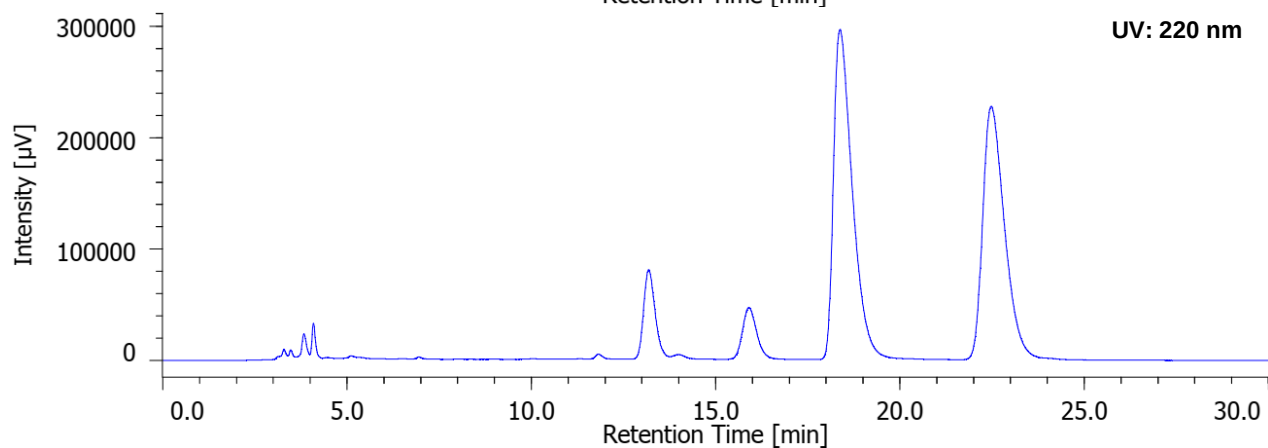
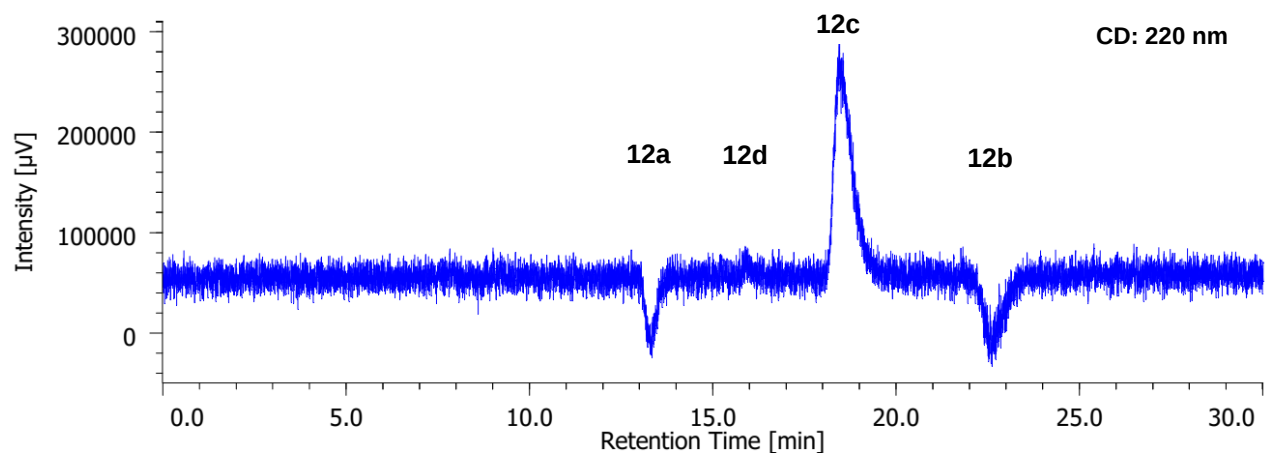
separation conditions: Daicel Chiralcel[®] OD-H, *i*-PrOH/Hexane 10/90, 1 mL/min



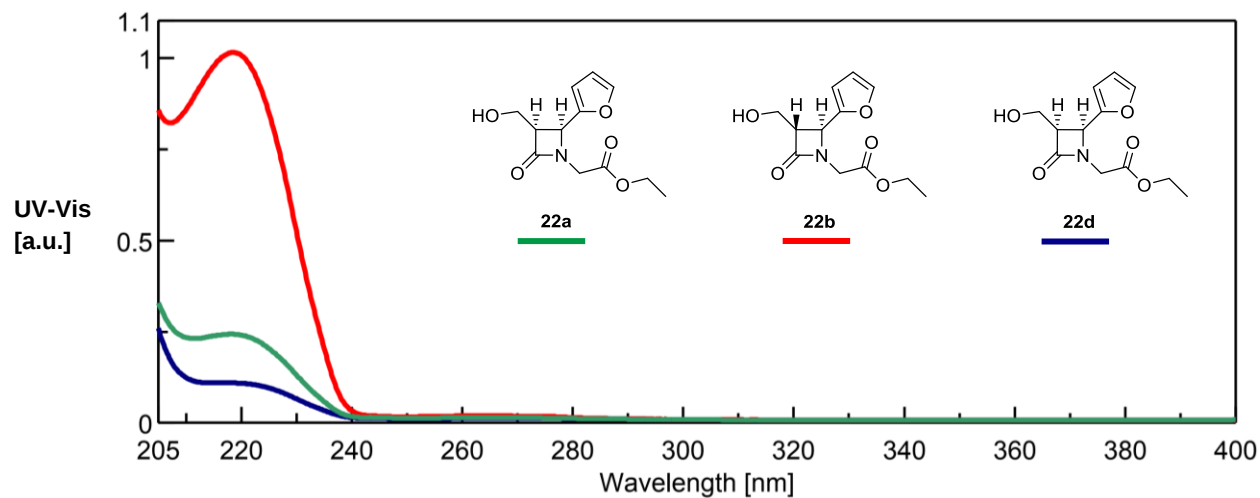
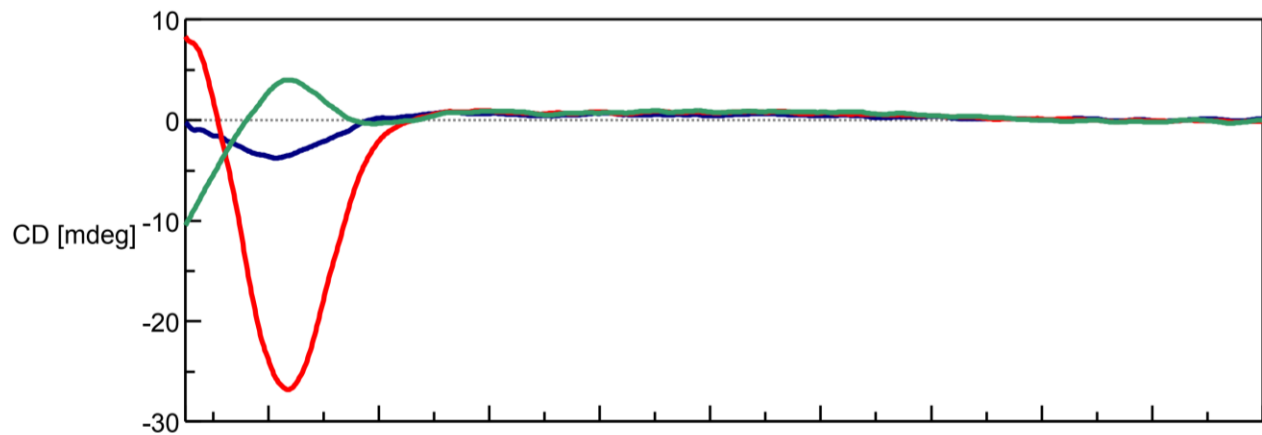
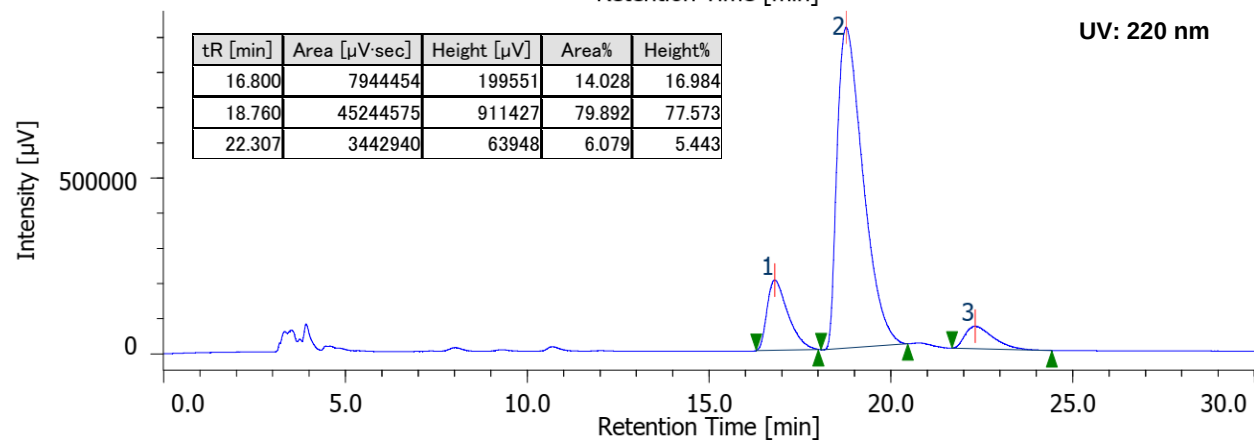
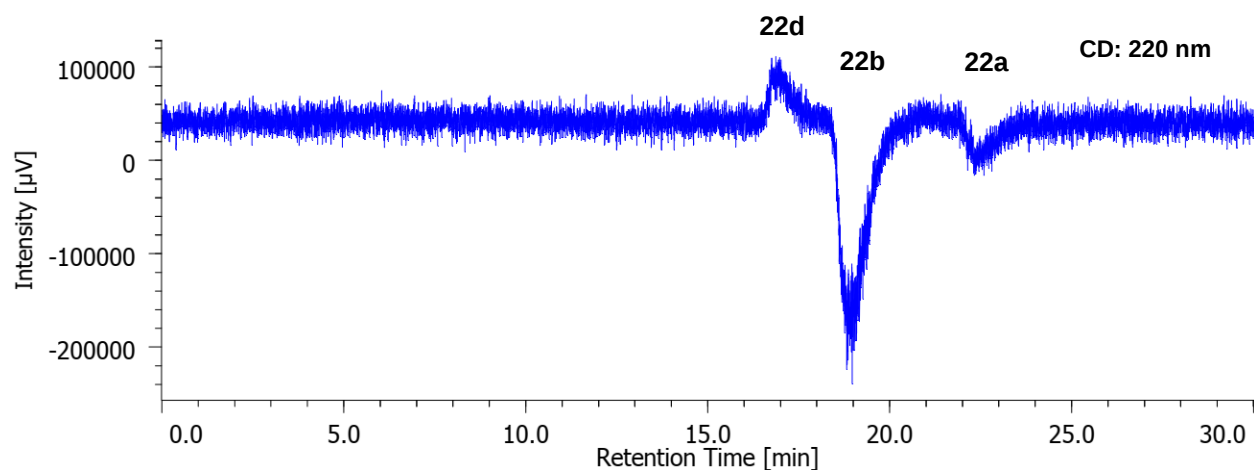
separation conditions: Daicel Chiralcel[®] AS-H, *i*-PrOH/Hexane 5/95, 1 mL/min



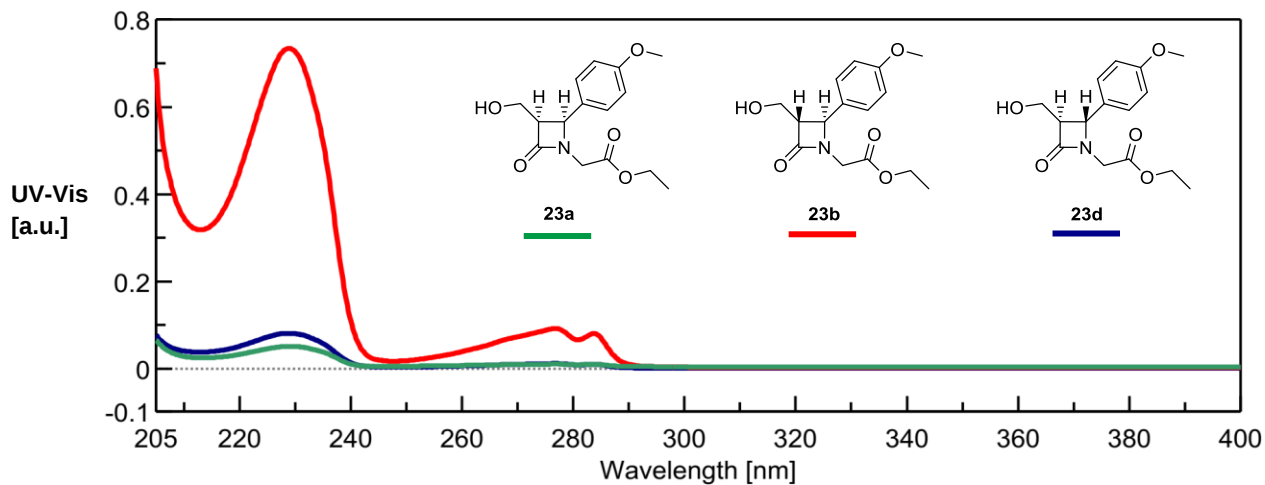
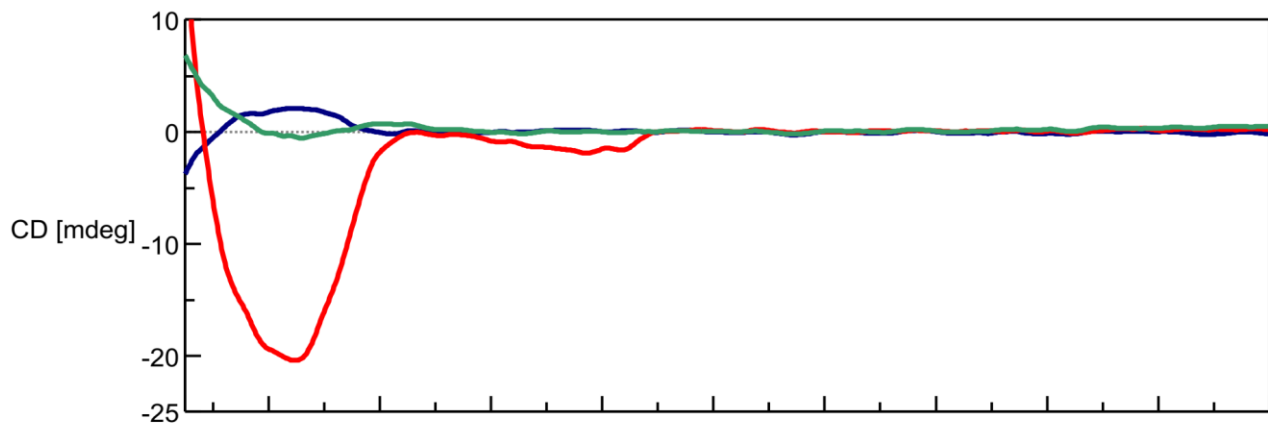
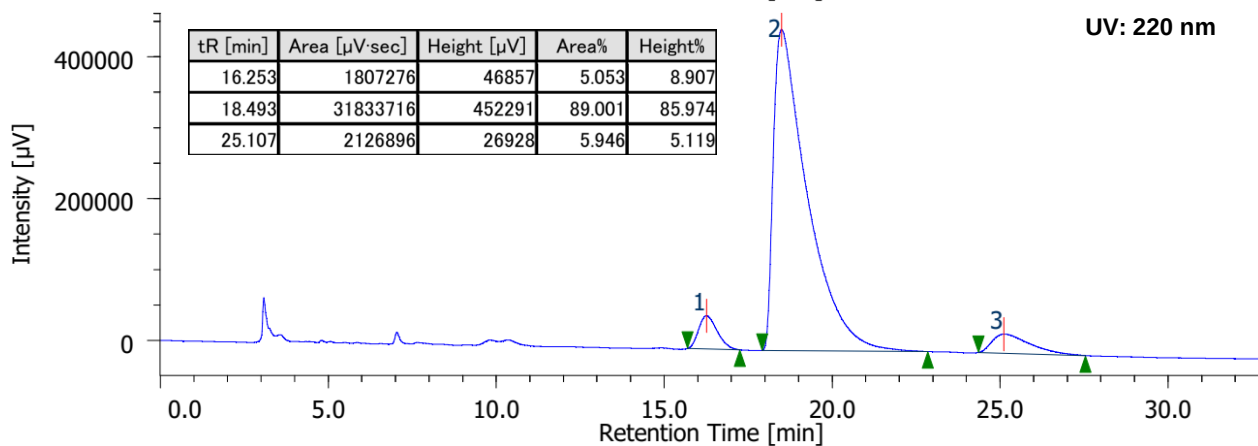
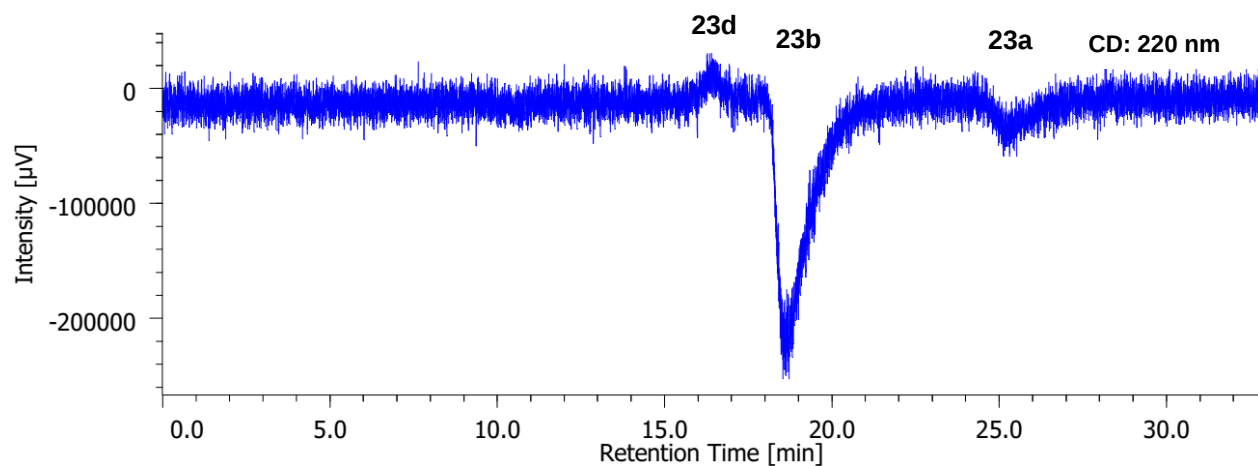
separation conditions: Daicel Chiralpak[®] AD-H, *i*-PrOH/Hexane 2/98, 1 mL/min



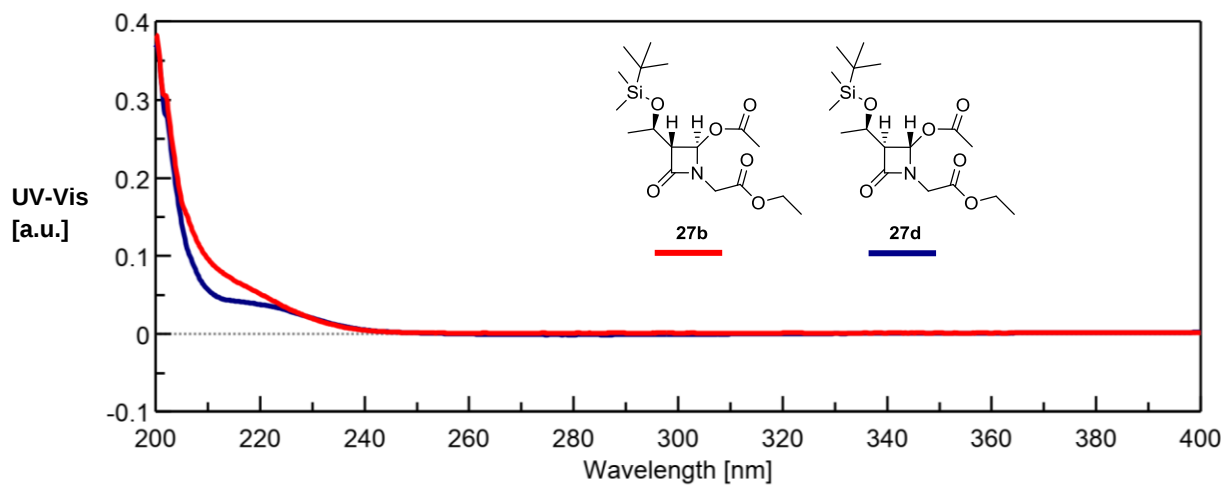
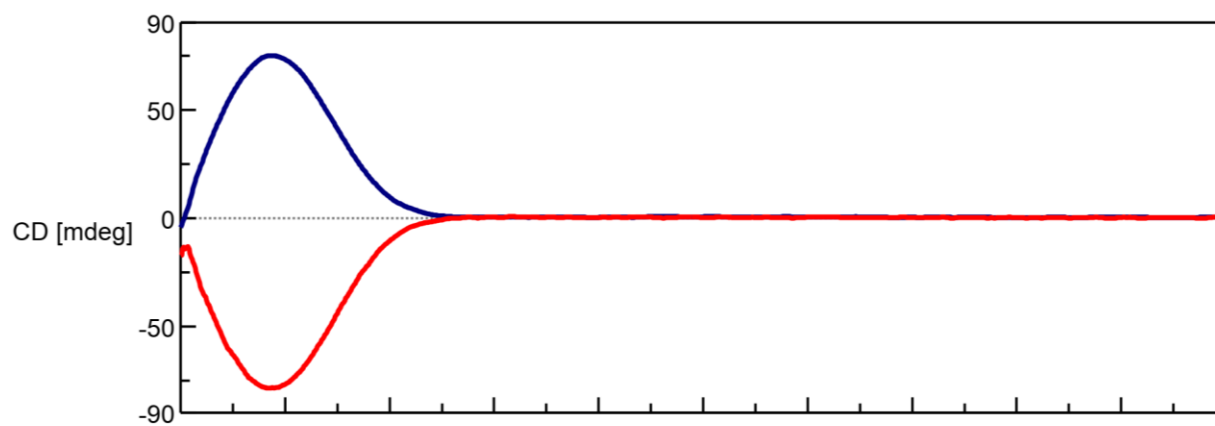
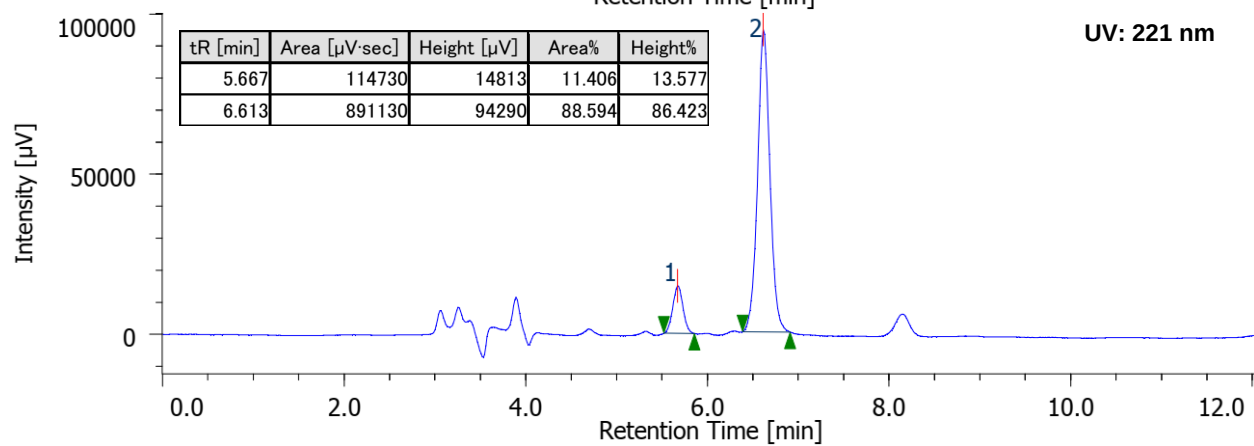
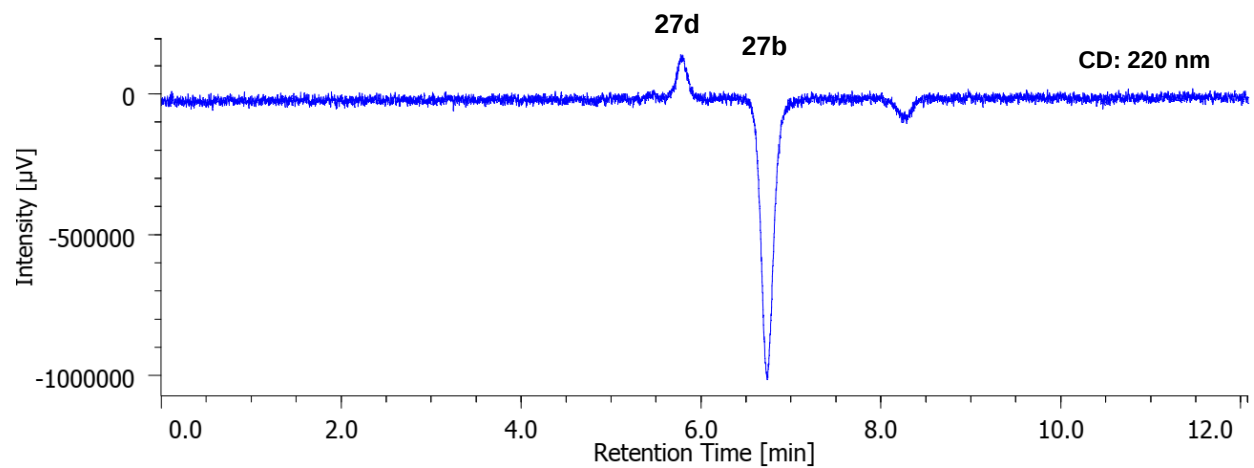
separation conditions: Daicel Chiralcel® OJ-H, *i*-PrOH/Hexane 10/90, 1 mL/min



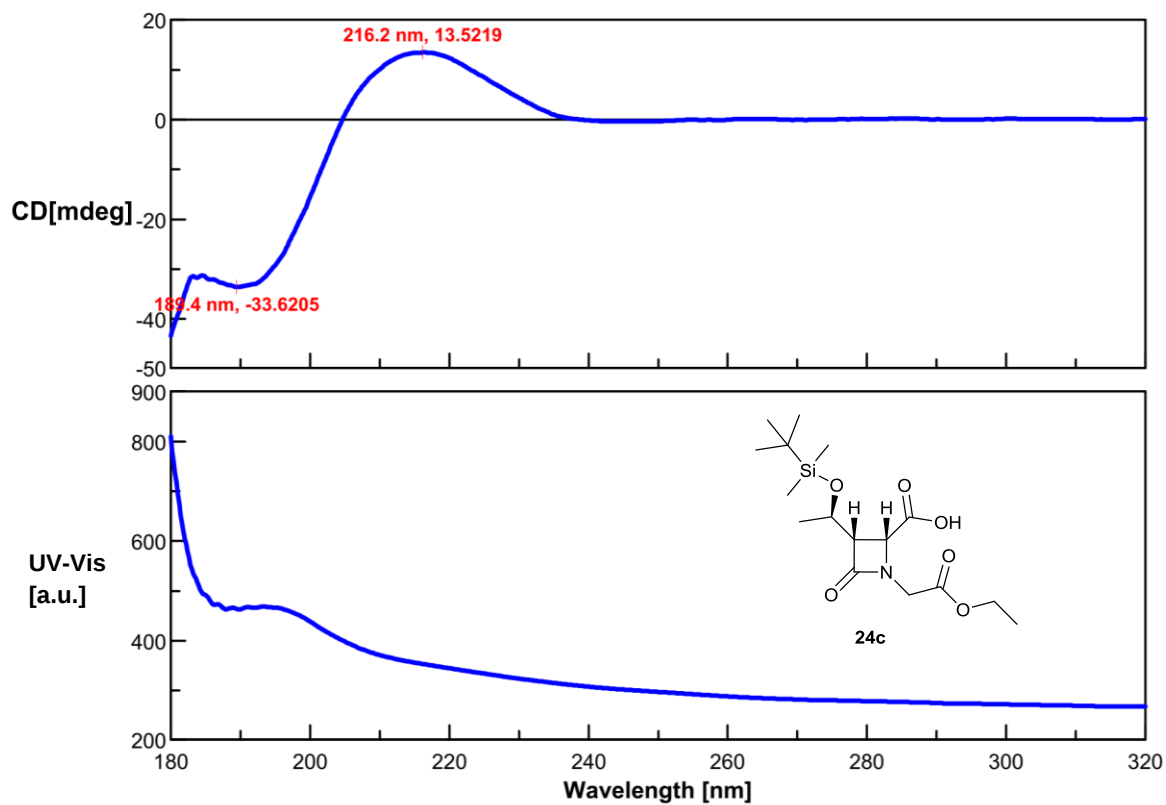
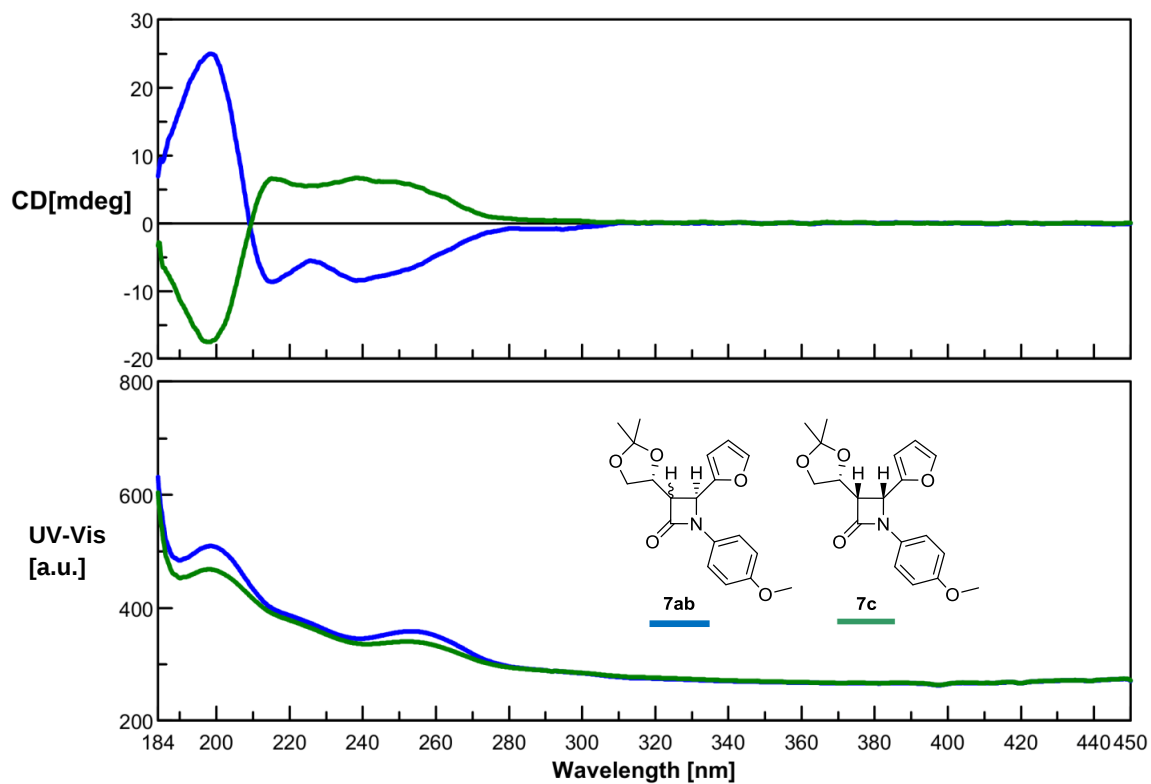
separation conditions: Daicel Chiralcel[®] OD-H, *i*-PrOH/Hexane 15/85, 1 mL/min

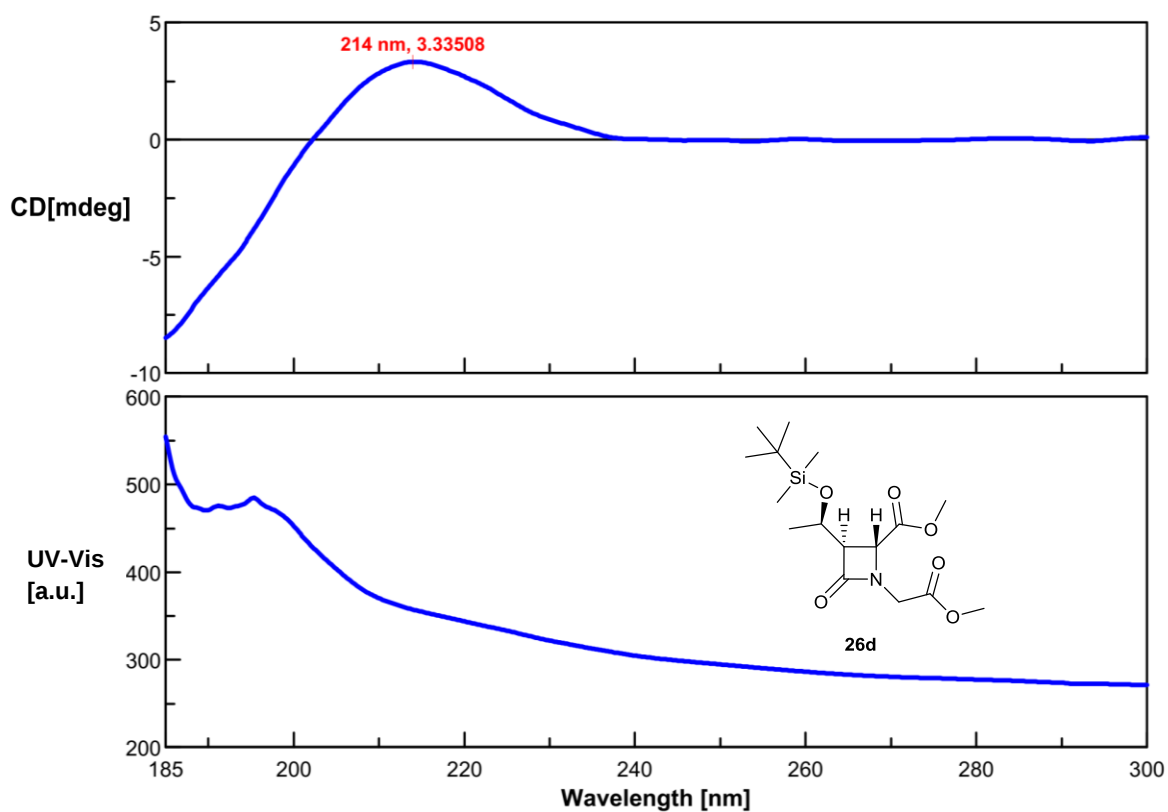
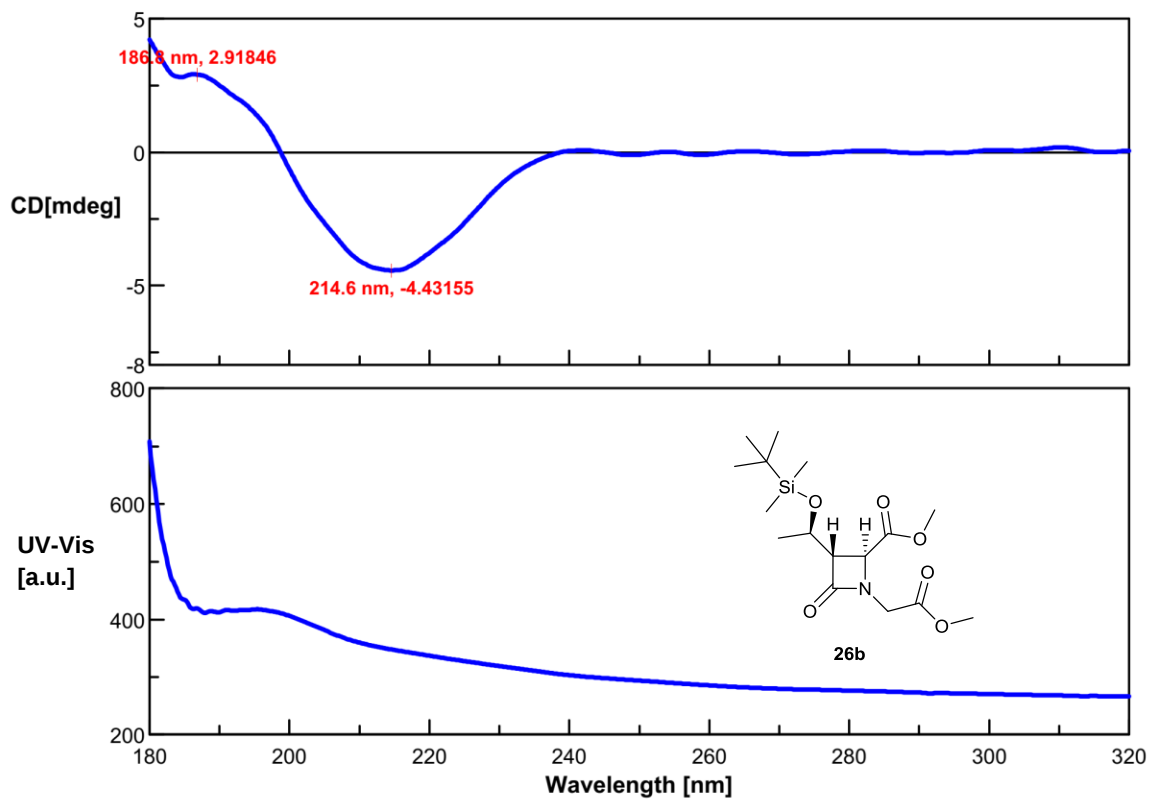


separation conditions: Daicel Chiralpak[®] IA, *i*-PrOH/Hexane 5/95, 1 mL/min



2. Separate ECD analyses

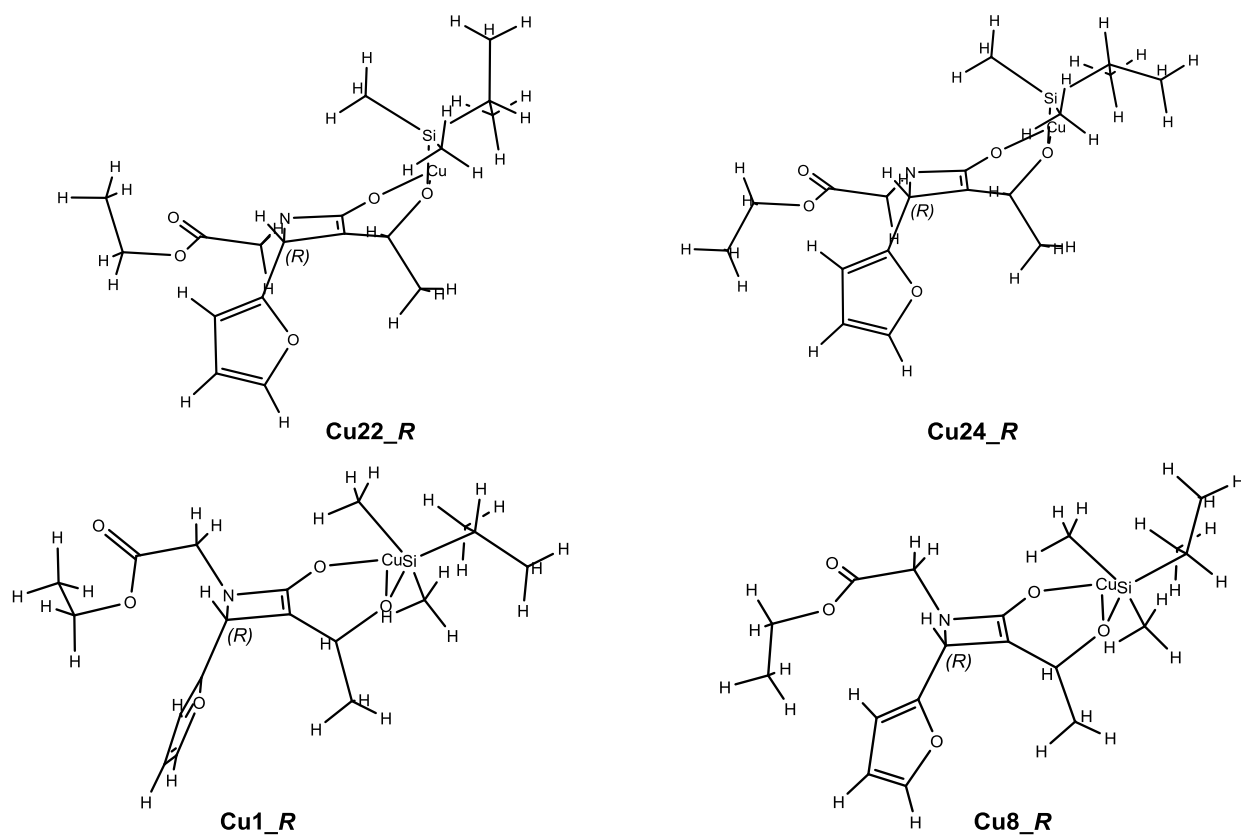
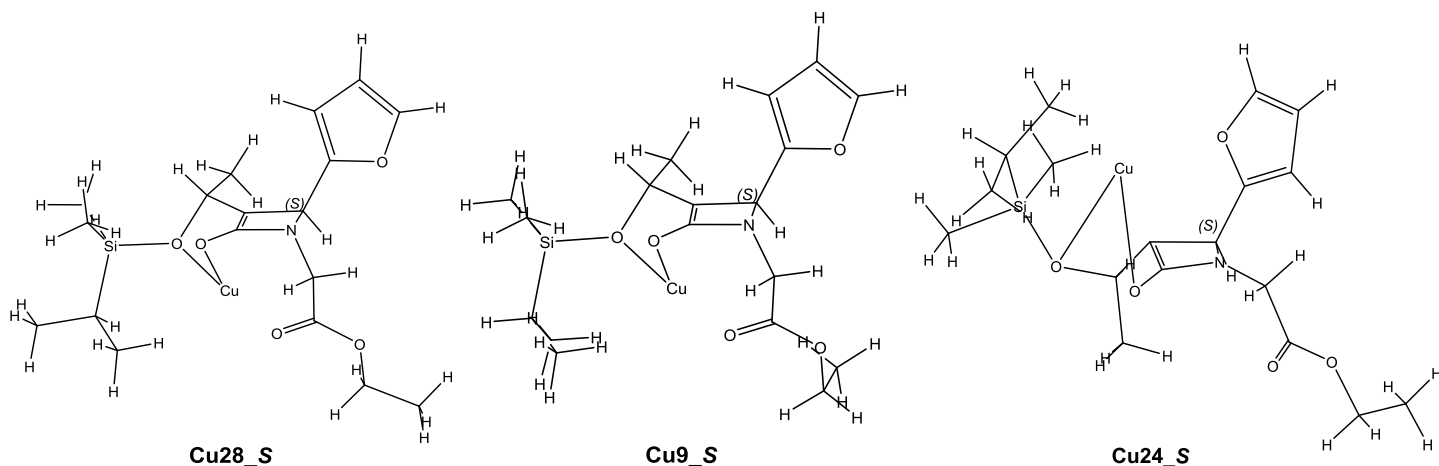




3. Theoretical computations

3.1. Predicting the structure of Cu (I) enolates of 11

A conformational search was carried out using Spartan'14 (Wave function, Inc. Irvine, CA). Then, the obtained conformers within 3 kcal mol⁻¹ were submitted for DFT re-optimization at B3LYP/6-31G(d) level of theory using the Gaussian09 package.^[2] Conformers found in the range of 1 kcal mol⁻¹ are presented below. Their relative free energies (ΔE) and contributions and are given in Table S1.



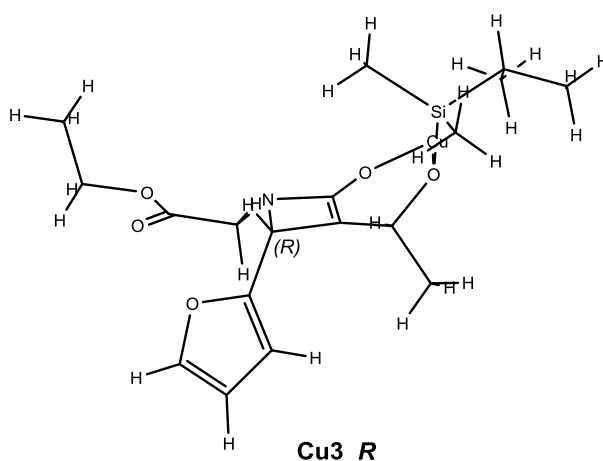
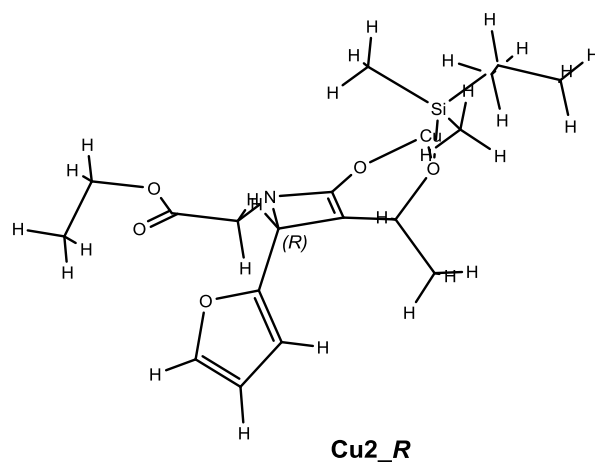
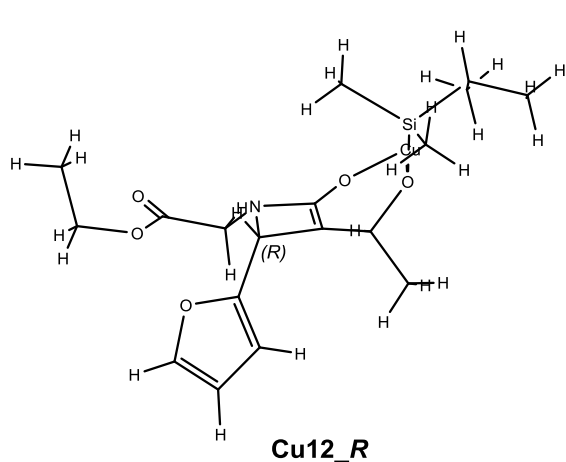


Table S1. Conformers found in the range of 1 kcal mol⁻¹ and their relative free energies (ΔE) and contributions

C-4 (S) Conformers	ΔE / kcal mol ⁻¹	% Contribution	C-4 (R) Conformers	ΔE / kcal mol ⁻¹	% Contribution
Cu28_S	0	54.2	Cu22_R	0	26.7
Cu9_S	0.4	27.3	Cu24_R	0.15	20.6
Cu24_S	0.64	18.5	Cu1_R	0.31	15.7
			Cu8_R	0.4	13.7
			Cu12_R	0.51	11.3
			Cu2_R	0.79	7.0
			Cu3_R	0.99	5.0

3.2. Conformational search and TDDFT calculations of ECD and UV spectra of selected compounds

In the first step, a conformational search was carried out using the MMFF94s method implemented to Conflex program.^[1] Then, the obtained conformers within 5 kcal mol⁻¹ were submitted for DFT re-optimization at ω B97X-D/6-311+G(d,p) level of theory using the Gaussian09 package.^[2] Finally, the selected group of conformers with population $\geq 3\%$ were used for computations of ECD spectra using CAM-B3LYP/def2-TZVP level. Conformers found and their relative free energies (ΔE) are given in Tables S2–S4. Based on comparison experimental and computed UV spectra, ECD spectra were shifted by *ca.* 8-10 nm in relation to the experimental ones. All spectra are presented with a half-width in the range of 0.30-0.35 eV at 1/e of peak height.

Table S2. Calculated at ω B97XD/6-311+G(d,p) level of theory relative energies ΔE (kcal/mol) and conformer distribution (>3%) at 25 °C for compounds **11a**, **11b** and **11c**.

		ΔE / kcal mol ⁻¹	Pop. / %
Compound 11a	#1	0	21.40
	#2	0	21.24
	#3	0.06	19.21
	#4	0.30	12.79
	#5	0.62	7.54
	#6	0.64	7.29
	#7	0.79	5.64
	#8	0.88	4.87

Compound 11b	#1	0	25.49
	#2	0.42	12.57
	#3	0.55	10.06
	#4	0.63	8.79
	#5	0.67	8.19
	#6	0.72	7.54
	#7	0.77	6.89
	#8	1.02	4.58
	#9	1.04	4.39
	#10	1.08	4.14
	#11	1.10	3.99
	#12	1.20	3.38

Compound 11c	#1	0	22.58
	#2	0.08	19.87
	#3	0.08	19.81
	#4	0.58	8.40
	#5	0.65	7.59
	#6	0.86	5.25
	#7	0.90	4.97
	#8	0.96	4.44
	#9	1.18	3.06

Table S3. Calculated at ω B97XD/6-311+G(d,p) level of theory relative energies ΔE (kcal/mol) and conformer distribution (>3%) at 25 °C for compound **26b**.

		ΔE / kcal mol ⁻¹	Pop. / %
Compound 26b	#1	0	56.49
	#2	0.76	15.75
	#3	1.06	9.40
	#4	1.21	7.32
	#5	1.37	5.57
	#6	1.56	4.06
	#7	2.25	1.26

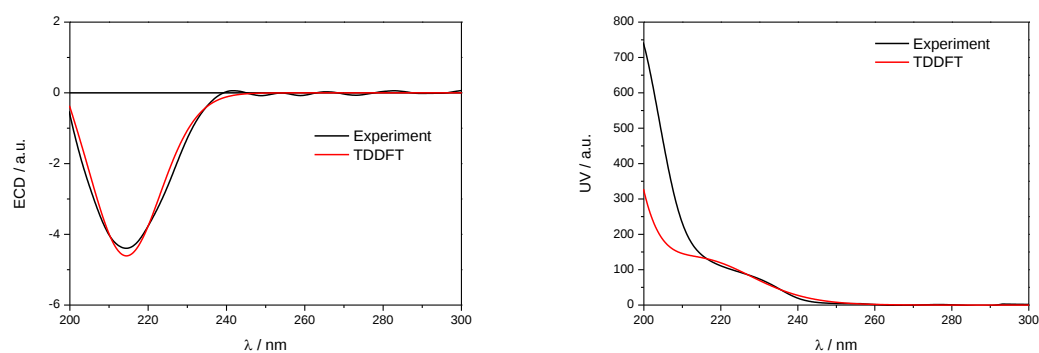


Figure S2. Comparison of experimental (recorded in acetonitrile) and theoretical ECD (left) and UV (right) spectra calculated at CAM-B3LYP/def2-TZVP level of theory for **26b**.

Table S4. Calculated at ω B97XD/6-311+G(d,p) level of theory relative energies ΔE (kcal/mol) and conformer distribution (>3%) at 25 °C for compound **26d**.

		ΔE / kcal mol ⁻¹	Pop. / %
Compound 26d	#1	0	41.51
	#2	0.47	18.90
	#3	0.6	14.97
	#4	1.06	6.93
	#5	1.27	4.84
	#6	1.47	3.46
	#7	1.49	3.32
	#8	1.53	3.13
	#9	1.57	2.94

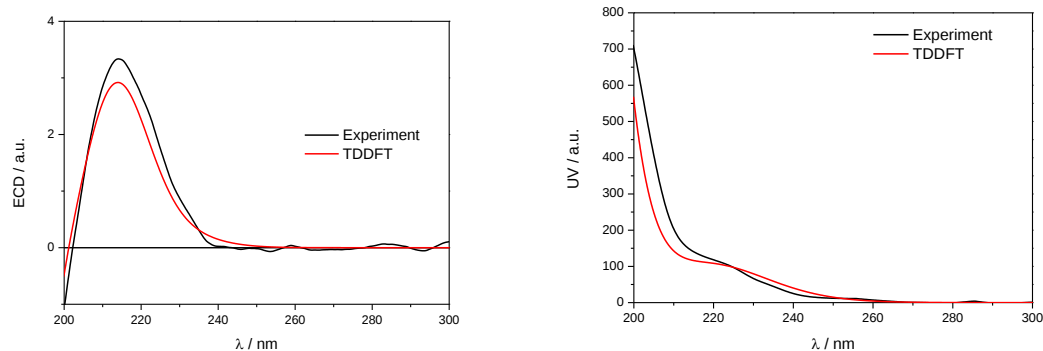


Figure S3. Comparison of experimental (recorded in acetonitrile) and theoretical ECD (left) and UV (right) spectra calculated at CAM-B3LYP/def2-TZVP level of theory for **26d**.

3.3. Cartesian coordinates, number of imaginary frequencies, and total energies of computed conformers

C-4(S) conformers of Cu (I) enolate of 11

Conformer Cu28_5

No. of imaginary frequencies = 0

Total energy = -3063.4638394

C	-0.326100	1.000900	-0.226400
C	-0.417200	0.421900	-1.529800
N	-1.853900	0.237900	-1.434700
C	-1.836800	0.861400	-0.050200
C	0.805800	1.680600	0.449400
O	1.811700	0.570100	0.695500
Cu	0.501900	-0.899500	0.126600
O	0.316400	0.073600	-2.463300
C	-2.665700	2.092900	0.063100
C	-2.360700	-1.115800	-1.651900
C	-2.701800	-3.762800	0.974400
C	-4.003300	-4.466500	1.305100
C	-2.502100	3.386800	-0.341000
C	-3.695700	4.089000	0.026800
C	-4.500100	3.173300	0.632700
O	-3.891700	1.953400	0.665800
H	-2.192000	0.145200	0.708800
C	0.469200	2.319700	1.786400
H	1.322800	2.400100	-0.200000
Si	3.441700	0.680200	0.178100
C	4.335300	1.973500	1.225300
C	4.138200	-1.055200	0.521900
C	5.665200	-1.124000	0.327400
C	3.427000	-2.139700	-0.306500
C	3.489200	1.125000	-1.650600
C	-1.961200	-2.101100	-0.564900
O	-0.811700	-2.237800	-0.107400
O	-2.981900	-2.813800	-0.089500
H	-3.449500	-1.125200	-1.749400
H	-1.919200	-1.450500	-2.599100
H	-2.299900	-3.212800	1.831200
H	-1.930700	-4.456400	0.626000
H	-3.834600	-5.193600	2.106600
H	-4.392500	-4.999700	0.432200
H	-4.760700	-3.751600	1.641200
H	-1.637700	3.782300	-0.855200
H	-3.919100	5.134400	-0.136400
H	-5.480500	3.221400	1.081900
H	-0.255100	3.128900	1.645400

H	0.028600	1.578500	2.461500
H	1.366700	2.727500	2.261200
H	4.342600	1.697300	2.286300
H	3.857800	2.956900	1.139700
H	5.376600	2.090400	0.900600
H	3.926600	-1.251500	1.585200
H	6.044100	-2.128400	0.558700
H	6.196600	-0.416000	0.973800
H	5.948800	-0.905200	-0.710200
H	3.638100	-2.036100	-1.377600
H	3.728700	-3.149500	0.000500
H	2.335000	-2.069300	-0.186500
H	4.401700	0.741900	-2.124900
H	2.620600	0.704100	-2.171900
H	3.476200	2.210300	-1.807700

Conformer Cu9_5

No. of imaginary frequencies = 0

Total energy = -3063.4631943

C	-0.422200	0.959800	-0.271300
C	-0.484900	0.430100	-1.596600
N	-1.885800	0.069800	-1.471600
C	-1.898500	0.630200	-0.060500
C	0.643600	1.733000	0.409600
O	1.769600	0.729100	0.596100
Cu	0.632700	-0.848900	-0.028900
O	0.255100	0.214900	-2.564700
C	-2.864400	1.746600	0.132500
C	-2.236700	-1.322700	-1.739000
C	-2.217100	-4.154100	0.719900
C	-2.375800	-3.595400	2.125000
C	-2.871800	3.065900	-0.219200
C	-4.127000	3.602900	0.215900
C	-4.793400	2.573000	0.805700
O	-4.042300	1.435600	0.766300
H	-2.141300	-0.155400	0.673500
C	0.272500	2.282800	1.776500
H	1.067000	2.525600	-0.221800
Si	3.366000	1.006800	0.044500
C	4.203700	2.290000	1.148200
C	4.215100	-0.686300	0.211400
C	3.627500	-1.717900	-0.768700
C	4.187900	-1.224900	1.654800
C	3.324000	1.581600	-1.747200
C	-1.692000	-2.307900	-0.715500

O	-0.524400	-2.323400	-0.285500
O	-2.608300	-3.173600	-0.280900
H	-3.319400	-1.456800	-1.808300
H	-1.790800	-1.561200	-2.713100
H	-1.190400	-4.468500	0.521100
H	-2.894800	-4.991900	0.542500
H	-3.400500	-3.249500	2.292800
H	-1.689500	-2.760900	2.296200
H	-2.151600	-4.378100	2.858500
H	-2.080200	3.583400	-0.742200
H	-4.479800	4.619100	0.105700
H	-5.755700	2.483900	1.286800
H	-0.536000	3.015200	1.681000
H	-0.072100	1.474800	2.430500
H	1.133000	2.765800	2.249400
H	5.248600	2.435400	0.844700
H	4.199000	1.990200	2.202000
H	3.706800	3.265000	1.076300
H	5.268200	-0.515200	-0.065600
H	2.545900	-1.833700	-0.591800
H	4.085700	-2.707100	-0.639200
H	3.748400	-1.418600	-1.815100
H	3.158700	-1.409200	1.988400
H	4.732000	-2.175900	1.729600
H	4.644000	-0.526400	2.365800
H	3.195100	2.667700	-1.826800
H	4.262600	1.329700	-2.257300
H	2.495000	1.107900	-2.287300

Conformer Cu24_5

No. of imaginary frequencies = 0

Total energy = -3063.4628250

C	0.231900	-0.280400	0.101500
C	-0.582000	-0.885100	-1.029400
N	-1.664000	-0.044800	-0.782700
C	-1.084400	0.500000	0.465300
C	0.775400	-1.223900	1.182600
O	2.097100	-1.707200	0.877400
Cu	1.554000	0.788400	-0.719400
O	-0.441900	-1.748900	-1.875900
C	-1.022400	1.984800	0.554800
C	-3.006700	-0.107200	-1.270300
C	-6.233200	-1.560900	-0.125700
C	-6.859400	-0.649100	0.918400
C	-1.678100	2.903400	1.320000

C	-1.205500	4.200200	0.926600
C	-0.294100	3.985700	-0.057300
O	-0.160900	2.643900	-0.298100
H	-1.604400	0.117900	1.351300
C	-0.079900	-2.468800	1.424500
H	0.830800	-0.645200	2.118000
Si	3.539700	-0.880600	0.810300
C	4.834000	-2.171300	1.270600
C	4.041000	-0.255800	-0.947700
C	3.610700	1.162800	-1.385900
C	3.704600	-1.297700	-2.032600
C	3.606200	0.541800	2.057200
C	-3.963300	-0.863800	-0.346100
O	-3.664300	-1.376200	0.710700
O	-5.202900	-0.871800	-0.877900
H	-3.422900	0.893500	-1.448100
H	-2.983800	-0.621000	-2.238300
H	-5.795600	-2.450100	0.334400
H	-6.960800	-1.864200	-0.882300
H	-7.255600	0.260300	0.454700
H	-6.122800	-0.369200	1.676800
H	-7.685400	-1.168500	1.417800
H	-2.416700	2.680600	2.078000
H	-1.507700	5.158700	1.325500
H	0.324600	4.632700	-0.660200
H	-1.117300	-2.199100	1.651300
H	-0.078200	-3.095200	0.527700
H	0.322500	-3.052200	2.259500
H	4.797800	-3.030300	0.591400
H	4.646200	-2.548100	2.282400
H	5.851700	-1.763000	1.245400
H	5.139700	-0.209400	-0.864500
H	4.240900	1.526100	-2.208800
H	3.683500	1.924200	-0.598500
H	2.611700	1.199900	-1.924200
H	2.622000	-1.453000	-2.113800
H	4.080100	-0.988300	-3.017700
H	4.153600	-2.269200	-1.800000
H	3.476300	0.155800	3.075400
H	4.579800	1.047700	2.019900
H	2.832000	1.300700	1.895200

C-4(R) Conformers of Cu (I) enolate of 11

Conformer Cu22_R**No. of imaginary frequencies = 0****Total energy = -3063.447216**

C	-0.125700	0.807200	-0.089800
C	0.221800	-0.390300	-0.657200
N	1.458500	-0.538400	0.042700
C	1.203300	0.833700	0.655000
C	-1.362100	1.627100	-0.091200
O	-2.540300	0.736600	-0.242900
Cu	-2.100400	-1.064500	-1.367200
O	-0.275100	-1.267800	-1.478600
C	2.668000	-0.844600	-0.687200
C	6.085200	-1.904400	0.284100
C	6.050500	-3.309400	0.867600
C	-1.459800	2.642900	-1.231300
H	-1.461900	2.168400	0.862500
Si	-3.532300	0.247000	1.038500
C	-4.333200	1.733300	1.871600
C	-4.830500	-0.802800	0.106500
C	-5.572700	-1.798300	1.015800
C	-4.175900	-1.525800	-1.082600
C	-2.558400	-0.782600	2.275500
C	3.826100	-1.146600	0.249600
O	3.835800	-0.974700	1.448000
O	4.881600	-1.612700	-0.461500
H	2.473300	-1.727100	-1.305700
H	2.994900	-0.046900	-1.377700
H	6.204100	-1.154200	1.070000
H	6.891100	-1.794900	-0.446500
H	5.249900	-3.397000	1.607300
H	7.003200	-3.532600	1.362100
H	5.888400	-4.053500	0.080700
H	-0.604900	3.324700	-1.186300
H	-1.423100	2.123900	-2.195300
H	-2.388100	3.224200	-1.172700
H	-3.593600	2.368900	2.372000
H	-5.053200	1.411800	2.634500
H	-4.869300	2.351200	1.142400
H	-5.568500	-0.097300	-0.302900
H	-6.343200	-2.347000	0.458600
H	-6.072900	-1.290700	1.849100
H	-4.887500	-2.539800	1.444000
H	-4.869300	-2.161800	-1.642500
H	-3.801800	-0.793700	-1.841300
H	-3.380700	-2.232300	-0.742100

H	-1.755200	-0.188800	2.726600
H	-3.199700	-1.144000	3.088600
H	-2.082500	-1.651900	1.807400
C	2.185600	1.908800	0.340900
O	2.169100	2.471300	-0.914000
C	3.157000	3.411000	-0.949000
H	3.262600	3.943300	-1.882400
C	3.805000	3.468600	0.246100
H	4.627200	4.122600	0.502500
C	3.174700	2.490600	1.082700
H	3.431200	2.232900	2.100800
H	1.163600	0.732600	1.746900

Conformer Cu24_R

No. of imaginary frequencies = 0

Total energy = -3063.446975

C	-0.125100	0.615200	-0.108900
C	0.179100	-0.659600	-0.508400
N	1.425200	-0.744300	0.185900
C	1.217100	0.705400	0.606800
C	-1.339100	1.461600	-0.206300
O	-2.543700	0.593000	-0.203800
Cu	-2.175700	-1.368000	-1.050200
O	-0.358700	-1.628200	-1.189300
C	2.611600	-1.180700	-0.515000
C	6.043800	-2.122200	0.520300
C	6.909700	-0.871200	0.484600
C	-1.436600	2.302600	-1.480800
H	-1.402900	2.138400	0.659600
Si	-3.533300	0.329400	1.143700
C	-4.219500	1.954600	1.799800
C	-4.890600	-0.787000	0.386000
C	-4.257800	-1.718100	-0.663300
C	-6.074500	-0.012000	-0.219400
C	-2.602900	-0.596200	2.492100
C	3.786000	-1.365100	0.431900
O	3.819800	-1.038100	1.597000
O	4.822400	-1.935500	-0.230000
H	2.386600	-2.140000	-0.993000
H	2.937400	-0.500300	-1.321800
H	6.538700	-2.965400	0.031400
H	5.789200	-2.397200	1.546900
H	7.134600	-0.582900	-0.547500
H	7.856400	-1.056100	1.005700
H	6.400800	-0.039100	0.979400
H	-0.563800	2.959100	-1.551600

H	-1.434700	1.648100	-2.359200
H	-2.348000	2.912800	-1.490700
H	-3.426700	2.587000	2.215700
H	-4.943800	1.773100	2.603800
H	-4.725500	2.524300	1.012900
H	-5.271800	-1.422400	1.199300
H	-4.961500	-2.442300	-1.085600
H	-3.447700	-2.352500	-0.225200
H	-3.907000	-1.129600	-1.547000
H	-6.817200	-0.696400	-0.650300
H	-6.585900	0.596800	0.533900
H	-5.744800	0.660300	-1.021300
H	-3.265200	-0.832700	3.334600
H	-2.173000	-1.536100	2.127200
H	-1.771200	0.002100	2.881100
C	2.221600	1.700100	0.136600
O	2.205500	2.080400	-1.184600
C	3.213900	2.982200	-1.358600
H	3.322400	3.374800	-2.358500
C	3.874600	3.192600	-0.187800
H	4.713200	3.857300	-0.031600
C	3.230700	2.357500	0.782600
H	3.489600	2.241700	1.825900
H	1.193100	0.755700	1.702700

Conformer Cu1_R

No. of imaginary frequencies = 0

Total energy = -3063.446719

C	-0.062000	0.503900	0.088600
C	0.362800	-0.706600	-0.398200
N	1.735300	-0.549400	-0.028600
C	1.359200	0.761900	0.600600
C	-1.247400	1.353300	-0.204500
O	-2.435500	0.474000	-0.287800
Cu	-1.961900	-1.529600	-0.930800
O	-0.130500	-1.755100	-0.983400
C	2.359000	-1.589800	0.772800
C	5.917200	-0.944700	-0.153700
C	6.602200	-2.277600	-0.416600
C	-1.190400	2.120800	-1.526900
H	-1.410600	2.078200	0.606600
Si	-3.576900	0.320400	0.956100
C	-4.345900	1.988100	1.365400
C	-4.825800	-0.892600	0.163300
C	-4.069000	-1.895000	-0.725500

C	-5.954000	-0.208600	-0.629300
C	-2.800300	-0.454200	2.484600
C	3.867300	-1.454000	0.933500
O	4.449800	-1.704100	1.968800
O	4.476700	-1.074400	-0.206700
H	1.942700	-1.672300	1.789200
H	2.163700	-2.539800	0.259000
H	6.199700	-0.540000	0.821100
H	6.151000	-0.213700	-0.931600
H	6.373300	-2.990500	0.380500
H	7.689000	-2.137700	-0.451400
H	6.278500	-2.699300	-1.373900
H	-0.325200	2.791400	-1.523500
H	-1.075000	1.420700	-2.361500
H	-2.098300	2.716400	-1.683100
H	-3.612500	2.672000	1.807800
H	-5.159800	1.871600	2.091900
H	-4.758100	2.469900	0.472300
H	-5.278500	-1.462900	0.988200
H	-4.705300	-2.688700	-1.129200
H	-3.279300	-2.449600	-0.155200
H	-3.657300	-1.383400	-1.627800
H	-6.634200	-0.949400	-1.069900
H	-6.553100	0.450200	0.008400
H	-5.554800	0.398700	-1.451300
H	-1.974100	0.159800	2.859900
H	-3.537300	-0.555300	3.291400
H	-2.389200	-1.449200	2.278300
C	2.133500	1.914800	0.052100
O	1.823400	3.144300	0.579900
C	2.597000	4.066300	-0.071400
H	2.468800	5.090700	0.243900
C	3.385100	3.453500	-0.994400
H	4.097900	3.934500	-1.650600
C	3.082700	2.051700	-0.916200
H	3.507900	1.241300	-1.488500
H	1.457800	0.729200	1.696800

Conformer Cu8_R

No. of imaginary frequencies = 0

Total energy = -3063.446586

C	0.006700	0.488200	-0.103500
C	0.241000	-0.718400	-0.713500
N	1.609400	-0.833200	-0.318100
C	1.423200	0.454700	0.468000

C	-1.055300	1.512700	-0.288300
O	-2.365900	0.818600	-0.349800
Cu	-2.190500	-1.138400	-1.230900
O	-0.412200	-1.605400	-1.399200
C	2.009500	-2.066300	0.355600
C	5.508200	-1.142400	1.216300
C	6.161400	-0.568500	-0.032000
C	-0.964200	2.333500	-1.576300
H	-1.073900	2.206100	0.565400
Si	-3.428400	0.674100	0.961100
C	-3.995600	2.370300	1.548400
C	-4.862400	-0.300800	0.156500
C	-5.733200	-1.052000	1.179600
C	-4.314700	-1.260900	-0.913000
C	-2.633100	-0.297500	2.362600
C	3.519300	-2.216100	0.458500
O	4.150500	-3.168400	0.054400
O	4.065800	-1.156900	1.095300
H	1.580000	-2.150800	1.372100
H	1.637900	-2.902400	-0.239600
H	5.853700	-2.160000	1.415300
H	5.699200	-0.516100	2.091500
H	5.968400	-1.211400	-0.895400
H	7.246500	-0.504200	0.113200
H	5.777000	0.434000	-0.243300
H	-0.008100	2.863500	-1.607100
H	-1.005700	1.667300	-2.445000
H	-1.782400	3.060700	-1.645700
H	-3.170000	2.952500	1.973600
H	-4.762400	2.277900	2.327700
H	-4.424000	2.948700	0.722100
H	-5.497400	0.435700	-0.357300
H	-6.573100	-1.560100	0.688300
H	-6.157200	-0.372300	1.928400
H	-5.156800	-1.815700	1.715600
H	-5.085800	-1.886100	-1.374900
H	-3.864800	-0.697100	-1.764700
H	-3.601200	-2.002000	-0.472000
H	-3.313200	-0.394200	3.217700
H	-2.338000	-1.305500	2.049400
H	-1.724300	0.204200	2.713000
C	2.391200	1.542000	0.156200
O	2.457400	2.000900	-1.132700
C	3.394100	2.991000	-1.164200
H	3.562700	3.445000	-2.129100
C	3.921800	3.188200	0.074800

H	4.679500	3.910800	0.345500
C	3.266300	2.245200	0.934100
H	3.432000	2.097500	1.992400
H	1.488700	0.256300	1.546700

Conformer Cu12_R

No. of imaginary frequencies = 0

Total energy = -3063.446407

C	-0.153700	0.814800	-0.240500
C	0.223400	-0.425400	-0.694000
N	1.470500	-0.468500	-0.006400
C	1.176400	0.944300	0.491100
C	-1.451300	1.535200	-0.194300
O	-2.564500	0.551300	-0.179400
Cu	-2.081100	-1.312900	-1.166200
O	-0.259300	-1.392000	-1.416600
C	2.678800	-0.824800	-0.713000
C	6.103600	-1.815400	0.300100
C	6.084600	-3.222200	0.880100
C	-1.729200	2.455000	-1.384800
H	-1.513800	2.136600	0.725500
Si	-3.447900	0.122900	1.200200
C	-4.238200	1.638400	1.987900
C	-4.742200	-1.070900	0.449600
C	-4.094100	-1.878300	-0.688900
C	-6.025600	-0.376300	-0.039800
C	-2.358600	-0.783200	2.437800
C	3.833300	-1.093600	0.239500
O	3.826000	-0.916700	1.436000
O	4.905200	-1.542200	-0.460300
H	2.474600	-1.735700	-1.285900
H	3.014700	-0.065100	-1.440600
H	6.199400	-1.065400	1.089400
H	6.917300	-1.690800	-0.419300
H	5.276100	-3.324700	1.609300
H	7.034400	-3.430900	1.386700
H	5.945100	-3.967100	0.089600
H	-0.951100	3.223500	-1.440400
H	-1.706200	1.879300	-2.316700
H	-2.705400	2.946500	-1.293000
H	-3.483300	2.315500	2.403800
H	-4.899200	1.345200	2.813200
H	-4.834400	2.203800	1.263600
H	-5.015100	-1.784200	1.241600
H	-4.756400	-2.636600	-1.118400

H	-3.208400	-2.462200	-0.336000
H	-3.848600	-1.210000	-1.551700
H	-6.728500	-1.101400	-0.470800
H	-6.542900	0.138000	0.777100
H	-5.807400	0.368600	-0.815300
H	-1.568300	-0.129000	2.823300
H	-2.946500	-1.133700	3.295600
H	-1.860700	-1.652500	1.993000
C	2.099700	2.022100	0.038900
O	3.061200	2.426600	0.933000
C	3.810000	3.384300	0.320700
H	4.606400	3.807500	0.914300
C	3.360400	3.604600	-0.945400
H	3.762800	4.310800	-1.658700
C	2.247200	2.721000	-1.128200
H	1.627500	2.614300	-2.006700
H	1.150000	0.938000	1.587900

Conformer Cu2_R

No. of imaginary frequencies = 0

Total energy = -3063.445954

C	-0.028500	0.650500	-0.312900
C	0.164000	-0.607600	-0.827900
N	1.453100	-0.814700	-0.254400
C	1.363700	0.604300	0.302600
C	-1.221200	1.519500	-0.140100
O	-2.442900	0.678800	-0.104900
Cu	-2.263800	-1.191000	-1.186100
O	-0.481700	-1.487200	-1.533000
C	2.545000	-1.272500	-1.086600
C	4.867800	-1.874000	1.776600
C	5.867500	-0.727500	1.819100
C	-1.450700	2.541300	-1.255500
H	-1.152800	2.064800	0.814100
Si	-3.313500	0.310200	1.299800
C	-3.856400	1.879100	2.185800
C	-4.788100	-0.668900	0.572600
C	-4.306400	-1.505200	-0.626000
C	-5.988300	0.208900	0.175000
C	-2.298500	-0.786300	2.443500
C	3.790500	-1.719900	-0.334600
O	4.759200	-2.188400	-0.896400
O	3.703800	-1.521600	0.994800
H	2.184000	-2.134800	-1.657200
H	2.883000	-0.527800	-1.827800

H	5.316900	-2.777400	1.356500
H	4.469000	-2.093900	2.770300
H	5.384100	0.189100	2.171400
H	6.283200	-0.546100	0.823900
H	6.691800	-0.974300	2.498500
H	-0.584900	3.208500	-1.322100
H	-1.559900	2.027700	-2.217100
H	-2.347600	3.144200	-1.068900
H	-4.407000	2.549500	1.517200
H	-2.999300	2.432900	2.585900
H	-4.509600	1.637700	3.033700
H	-5.117200	-1.373400	1.351100
H	-5.082300	-2.152400	-1.046900
H	-3.489800	-2.214100	-0.340600
H	-4.016300	-0.839100	-1.476700
H	-6.800400	-0.398400	-0.246000
H	-6.394700	0.750900	1.035500
H	-5.708300	0.951300	-0.582800
H	-1.406200	-0.262100	2.804600
H	-2.884100	-1.088000	3.321200
H	-1.950300	-1.696600	1.941900
C	2.364400	1.588800	-0.195800
O	3.438100	1.850300	0.623700
C	4.236600	2.744400	-0.024700
H	5.123200	3.054100	0.507700
C	3.709600	3.061300	-1.238700
H	4.128300	3.745300	-1.964100
C	2.492600	2.313100	-1.349000
H	1.794000	2.309400	-2.173100
H	1.425500	0.562300	1.397800

Conformer Cu3_R

No. of imaginary frequencies = 0

Total energy = -3063.445637

C	-0.031300	0.782900	-0.206000
C	0.223600	-0.363600	-0.916400
N	1.523400	-0.596100	-0.375800
C	1.362100	0.708000	0.403500
C	-1.265800	1.552900	0.095100
O	-2.444100	0.657400	-0.010200
Cu	-2.172000	-1.000800	-1.378000
O	-0.378400	-1.148900	-1.758400
C	2.632400	-0.853400	-1.270500
C	5.055600	-1.642500	1.457600
C	5.049200	-3.134900	1.754400

C	-1.548400	2.725400	-0.846000
H	-1.222900	1.942900	1.124000
Si	-3.286400	0.020900	1.313600
C	-3.906700	1.394600	2.440200
C	-4.712000	-0.902900	0.432300
C	-4.193600	-1.508000	-0.884200
C	-5.957700	-0.035500	0.177700
C	-2.209000	-1.192000	2.266800
C	3.901500	-1.357000	-0.599100
O	4.854000	-1.774300	-1.225100
O	3.863800	-1.244800	0.743000
H	2.312600	-1.622800	-1.980200
H	2.929100	0.023700	-1.872400
H	5.029300	-1.050200	2.375700
H	5.931700	-1.361600	0.867700
H	5.092500	-3.710100	0.825300
H	4.145500	-3.418000	2.304000
H	5.921600	-3.398400	2.364100
H	-0.717300	3.437100	-0.800800
H	-1.633100	2.365900	-1.877500
H	-2.474300	3.245600	-0.572100
H	-4.494000	2.134800	1.886100
H	-3.078400	1.920300	2.929000
H	-4.543500	0.985200	3.234400
H	-5.000500	-1.740200	1.085200
H	-4.937600	-2.116500	-1.407900
H	-3.341100	-2.211400	-0.714400
H	-3.941100	-0.698800	-1.614300
H	-6.740000	-0.608100	-0.337600
H	-6.386400	0.339900	1.113000
H	-5.720200	0.832300	-0.450300
H	-1.345900	-0.686800	2.715300
H	-2.774700	-1.666400	3.078800
H	-1.812900	-1.986200	1.623400
C	2.311900	1.809200	0.081400
O	3.365000	1.989700	0.946800
C	4.119800	3.014200	0.460800
H	4.985800	3.279200	1.048600
C	3.585000	3.494600	-0.695000
H	3.972400	4.305600	-1.296300
C	2.408900	2.713700	-0.940400
H	1.716400	2.807000	-1.764400
H	1.427000	0.491200	1.477600

Compound 11a

Conformer #1**No. of imaginary frequencies = 0****Total energy = -1463.0933109**

C	-0.036637	0.269461	-1.048794
C	0.415912	-0.853723	-0.104038
N	1.625197	-0.249422	0.103956
C	1.398475	0.863832	-0.818752
O	-0.036234	-1.885409	0.318432
C	1.581141	2.214957	-0.232023
H	2.020607	0.796102	-1.714438
C	-1.270883	1.065990	-0.635089
H	-0.175869	-0.096377	-2.069097
C	2.233576	3.315748	-0.683888
C	2.033323	4.336681	0.299592
C	1.283475	3.769878	1.273375
O	1.002394	2.481307	0.967537
C	2.801778	-0.701175	0.773120
C	3.886377	-1.152996	-0.191731
O	4.957136	-1.575616	0.480886
C	6.072309	-2.036190	-0.306133
O	3.801164	-1.123732	-1.390228
C	7.155457	-2.475111	0.650856
C	-1.487921	2.289819	-1.514496
O	-2.374125	0.195724	-0.751368
Si	-3.493056	-0.117107	0.457582
C	-2.614598	-0.471964	2.072372
C	-4.589659	1.392598	0.666458
C	-4.463244	-1.612642	-0.168632
C	-3.528214	-2.831167	-0.233505
C	-5.631045	-1.912103	0.784968
C	-5.015607	-1.320036	-1.572697
H	-1.143659	1.392930	0.405160
H	2.785275	3.388330	-1.608035
H	2.403364	5.349247	0.283616
H	0.890880	4.129162	2.209904
H	3.213596	0.081095	1.419242
H	2.526310	-1.541783	1.414840
H	6.402597	-1.220054	-0.953129
H	5.732848	-2.854877	-0.944699
H	8.019541	-2.832086	0.085480
H	6.804056	-3.286472	1.291335
H	7.476895	-1.645497	1.283834
H	-2.398886	2.807786	-1.206008
H	-0.649786	2.988270	-1.442694
H	-1.605963	1.982762	-2.557272
H	-3.333651	-0.766314	2.843524

H	-1.888092	-1.277902	1.944102
H	-2.082406	0.409261	2.444427
H	-5.331258	1.241232	1.456840
H	-5.121715	1.630733	-0.258833
H	-3.990632	2.266797	0.942556
H	-4.063856	-3.693519	-0.650958
H	-2.652196	-2.636233	-0.857178
H	-3.163328	-3.115901	0.757780
H	-6.182905	-2.794902	0.438608
H	-6.342347	-1.081010	0.835375
H	-5.285081	-2.124160	1.802231
H	-5.571764	-2.189129	-1.946793
H	-5.702769	-0.467187	-1.571943
H	-4.210161	-1.104207	-2.279475

Conformer #2

No. of imaginary frequencies = 0

Total energy = -1463.0933038

C	0.057652	0.277740	-0.996907
C	0.499522	-0.783521	0.021282
N	1.680759	-0.132707	0.251756
C	1.468435	0.918929	-0.744126
O	0.059848	-1.808135	0.472972
C	1.598939	2.306661	-0.234275
H	2.127742	0.811973	-1.609036
C	-1.209765	1.062827	-0.670664
H	-0.033859	-0.143319	-2.001159
C	2.245985	3.392665	-0.727805
C	1.983519	4.467315	0.180847
C	1.205976	3.944067	1.157363
O	0.965317	2.632741	0.921928
C	2.847238	-0.531516	0.970631
C	3.949749	-1.044656	0.057948
O	5.009611	-1.413252	0.778865
C	6.140673	-1.947896	0.061864
O	3.881317	-1.096042	-1.141237
C	5.950961	-3.418796	-0.248286
C	-1.422477	2.234032	-1.619957
O	-2.287097	0.159839	-0.781059
Si	-3.439775	-0.121985	0.403614
C	-2.610308	-0.377184	2.062565
C	-4.577343	1.368586	0.500834
C	-4.353180	-1.669284	-0.181152
C	-3.386580	-2.864528	-0.164600
C	-5.540531	-1.956718	0.751833
C	-4.871368	-1.454117	-1.611992

H	-1.129439	1.445844	0.354985
H	2.833745	3.421239	-1.631921
H	2.332417	5.485442	0.116351
H	0.767400	4.351030	2.053098
H	3.243984	0.295626	1.568016
H	2.565045	-1.327764	1.663900
H	6.983251	-1.785259	0.733591
H	6.286255	-1.364965	-0.849142
H	6.851730	-3.808951	-0.728978
H	5.109605	-3.567116	-0.926999
H	5.776119	-3.987862	0.667288
H	-2.355564	2.744664	-1.371104
H	-0.603441	2.955560	-1.555463
H	-1.495520	1.870886	-2.648738
H	-3.349589	-0.646828	2.823546
H	-1.864881	-1.173558	1.999753
H	-2.107509	0.532215	2.406633
H	-5.342534	1.237454	1.272115
H	-5.081890	1.548536	-0.452579
H	-4.008501	2.269527	0.753807
H	-3.888999	-3.758920	-0.555095
H	-2.499250	-2.675547	-0.773909
H	-3.041646	-3.093607	0.847989
H	-6.060941	-2.867136	0.429105
H	-6.272735	-1.142411	0.746222
H	-5.219002	-2.116176	1.786544
H	-5.392528	-2.354091	-1.962701
H	-5.581027	-0.621854	-1.668618
H	-4.051440	-1.246722	-2.304543

Conformer #3

No. of imaginary frequencies = 0

Total energy = -1463.0932091

C	0.013977	0.154193	-0.993177
C	0.365039	-0.950511	0.014387
N	1.601093	-0.410335	0.240682
C	1.474742	0.670659	-0.737985
O	-0.163531	-1.933311	0.463705
C	1.723313	2.034175	-0.207199
H	2.120562	0.522969	-1.606929
C	-1.182353	1.040327	-0.657307
H	-0.114384	-0.247538	-2.001317
C	2.460359	3.068356	-0.685574
C	2.293024	4.146802	0.240922
C	1.475338	3.676667	1.211609
O	1.122469	2.394722	0.956259

C	2.724848	-0.900307	0.970984
C	3.816584	-1.449191	0.066794
O	4.837250	-1.897967	0.799126
C	5.971958	-2.433265	0.089039
O	3.771177	-1.467839	-1.134368
C	6.911960	-1.331909	-0.357597
C	-1.293841	2.237205	-1.591793
O	-2.331957	0.233453	-0.780480
Si	-3.509697	0.032373	0.395839
C	-2.712493	-0.306783	2.055456
C	-4.524625	1.608172	0.506323
C	-4.540984	-1.429632	-0.211698
C	-3.673177	-2.698495	-0.205488
C	-5.752634	-1.632251	0.712302
C	-5.032633	-1.156731	-1.642082
H	-1.071663	1.402085	0.373304
H	3.046412	3.060932	-1.591213
H	2.727795	5.132193	0.191370
H	1.074913	4.105339	2.115052
H	3.157733	-0.117381	1.602397
H	2.378843	-1.698015	1.632975
H	5.611520	-3.017138	-0.759345
H	6.447953	-3.098438	0.809015
H	7.793253	-1.773567	-0.829661
H	7.242271	-0.735036	0.495411
H	6.426490	-0.679172	-1.084986
H	-2.181694	2.820691	-1.337715
H	-0.417882	2.887175	-1.517020
H	-1.394505	1.894513	-2.625247
H	-3.475203	-0.525672	2.809581
H	-2.031829	-1.158695	1.986920
H	-2.141611	0.556211	2.412624
H	-5.302691	1.528689	1.271777
H	-5.007235	1.840393	-0.447136
H	-3.887164	2.457294	0.774464
H	-4.243401	-3.545123	-0.609097
H	-2.770299	-2.573927	-0.808478
H	-3.352936	-2.966408	0.805675
H	-6.342599	-2.493936	0.375728
H	-6.417104	-0.761784	0.713743
H	-5.450614	-1.829711	1.746339
H	-5.621931	-2.008052	-2.006145
H	-5.673458	-0.269939	-1.691603
H	-4.195099	-1.007175	-2.328442

Conformer #4

No. of imaginary frequencies = 0

Total energy = -1463.0928257

C	-0.373127	0.102040	0.782710
C	-0.575833	-0.821298	-0.425474
N	-1.729323	-0.170883	-0.787650
C	-1.768730	0.703286	0.383459
O	-0.023925	-1.773307	-0.908283
C	-1.890192	2.144006	0.040875
H	-2.548587	0.426407	1.098954
C	0.854404	1.007573	0.759859
H	-0.401841	-0.454038	1.722709
C	-1.570360	2.866923	-1.061680
C	-1.903772	4.226223	-0.757914
C	-2.400470	4.216548	0.500881
O	-2.404213	2.955702	0.998293
C	-2.782436	-0.589404	-1.662472
C	-3.821083	-1.517047	-1.043667
O	-3.519465	-1.853623	0.209891
C	-4.415947	-2.768678	0.867494
O	-4.793853	-1.895458	-1.638517
C	-3.871998	-3.011688	2.255679
C	0.875091	1.978431	1.931955
O	1.989251	0.174593	0.810602
Si	3.254925	0.201367	-0.290100
C	2.580681	0.185696	-2.037961
C	4.247884	1.771646	-0.024255
C	4.261821	-1.348770	0.097877
C	3.428399	-2.594794	-0.243089
C	5.552918	-1.350987	-0.736587
C	4.621759	-1.370028	1.591936
H	0.838034	1.585336	-0.175535
H	-1.148213	2.475133	-1.973666
H	-1.792182	5.088821	-1.395165
H	-2.784868	4.982589	1.153024
H	-3.310894	0.277671	-2.066589
H	-2.339388	-1.124052	-2.506233
H	-4.465192	-3.687691	0.279319
H	-5.414769	-2.326417	0.886172
H	-4.520880	-3.712461	2.786124
H	-3.831547	-2.082241	2.828017
H	-2.868095	-3.438425	2.209476
H	1.776796	2.593077	1.885117
H	0.004325	2.638419	1.921545
H	0.888332	1.422770	2.873456
H	3.397770	0.122728	-2.763615
H	1.916276	-0.668831	-2.186987

H	2.020325	1.099188	-2.261985
H	5.073762	1.847133	-0.738191
H	4.665933	1.813018	0.985433
H	3.615180	2.654998	-0.160729
H	3.978726	-3.502076	0.037322
H	2.469622	-2.598027	0.281449
H	3.212169	-2.657144	-1.313777
H	6.129144	-2.262597	-0.535178
H	6.196646	-0.497906	-0.498034
H	5.346016	-1.329134	-1.811906
H	5.201638	-2.271885	1.825985
H	5.230780	-0.505890	1.878064
H	3.724879	-1.372747	2.216731

Conformer #5

No. of imaginary frequencies = 0

Total energy = -1463.0923275

C	-0.342022	0.084000	0.756355
C	-0.586494	-0.770264	-0.495521
N	-1.777553	-0.142100	-0.746735
C	-1.766108	0.676410	0.466436
O	-0.029836	-1.668154	-1.069711
C	-1.966318	2.131119	0.253112
H	-2.499904	0.339784	1.204874
C	0.882709	0.994864	0.748041
H	-0.321632	-0.529253	1.660926
C	-2.757361	3.036710	0.882489
C	-2.494165	4.301152	0.265173
C	-1.571124	4.058524	-0.694458
O	-1.241696	2.745743	-0.716228
C	-2.848204	-0.493192	-1.626579
C	-3.903170	-1.422289	-1.039844
O	-3.593994	-1.831983	0.190972
C	-4.507737	-2.755399	0.811306
O	-4.895871	-1.742732	-1.636041
C	-3.956851	-3.084338	2.178998
C	0.897194	1.952109	1.931911
O	2.013440	0.154932	0.802947
Si	3.297670	0.186984	-0.276071
C	2.659995	0.215369	-2.035792
C	4.310014	1.735417	0.043041
C	4.274033	-1.385522	0.103547
C	3.414858	-2.611892	-0.244273
C	5.564816	-1.410105	-0.730850
C	4.633355	-1.423315	1.597378
H	0.876998	1.578434	-0.181788

H	-3.440735	2.827503	1.690594
H	-2.938256	5.254962	0.500536
H	-1.076022	4.681348	-1.420555
H	-3.360526	0.402399	-1.987806
H	-2.424720	-0.998599	-2.498154
H	-4.588099	-3.641676	0.178000
H	-5.494505	-2.289330	0.864221
H	-4.618692	-3.794772	2.679773
H	-3.886083	-2.187460	2.798537
H	-2.964972	-3.533713	2.099991
H	1.805261	2.558549	1.903288
H	0.032332	2.620927	1.917686
H	0.893784	1.386656	2.867863
H	3.491540	0.160260	-2.745583
H	1.989272	-0.628077	-2.215777
H	2.110711	1.137383	-2.251184
H	5.157882	1.806669	-0.645156
H	4.698436	1.755115	1.065128
H	3.696790	2.631463	-0.099511
H	3.949229	-3.532553	0.023360
H	2.460727	-2.601275	0.288623
H	3.188385	-2.659118	-1.313465
H	6.125241	-2.331712	-0.530041
H	6.223455	-0.568528	-0.491801
H	5.357874	-1.383772	-1.805934
H	5.190016	-2.340771	1.827423
H	5.264197	-0.576329	1.887317
H	3.736640	-1.406190	2.222394

Conformer #6

No. of imaginary frequencies = 0

Total energy = -1463.0922957

C	0.105936	0.911623	-1.530031
C	0.286640	-0.605308	-1.697409
N	1.645997	-0.477904	-1.772830
C	1.671566	0.979464	-1.616864
O	-0.424777	-1.572239	-1.761905
C	2.483356	1.512577	-0.492038
H	2.017880	1.486650	-2.523337
C	-0.616106	1.373242	-0.266285
H	-0.381279	1.366189	-2.396376
C	3.496248	2.416166	-0.473985
C	3.898013	2.549442	0.892513
C	3.099341	1.712283	1.594328
O	2.236170	1.075351	0.769649
C	2.696617	-1.448643	-1.860405

C	3.361124	-1.760110	-0.524557
O	2.459715	-1.866210	0.444853
C	2.954135	-2.051945	1.779693
O	4.546816	-1.905955	-0.382625
C	1.791543	-1.838262	2.720650
C	-0.517577	2.879582	-0.066023
O	-1.966797	0.999871	-0.417050
Si	-2.865953	0.128341	0.699601
C	-1.858881	-1.308175	1.353755
C	-3.319506	1.264777	2.123653
C	-4.392125	-0.444813	-0.254914
C	-3.968615	-1.469851	-1.319303
C	-5.396045	-1.094322	0.711235
C	-5.054950	0.759545	-0.942197
H	-0.169426	0.865426	0.597521
H	3.907569	2.923482	-1.332546
H	4.678450	3.176623	1.292002
H	3.023752	1.462038	2.639612
H	2.257198	-2.374466	-2.243960
H	3.475743	-1.121559	-2.551158
H	3.761892	-1.337001	1.954147
H	3.372025	-3.058536	1.862840
H	2.120445	-1.975229	3.753716
H	0.986702	-2.546566	2.514951
H	1.394377	-0.827028	2.608605
H	-1.072518	3.169941	0.828923
H	0.520423	3.203327	0.049257
H	-0.957556	3.397703	-0.922509
H	-2.484790	-1.964064	1.967482
H	-1.440739	-1.892879	0.530696
H	-1.032728	-0.965741	1.983727
H	-3.894385	0.734544	2.889152
H	-3.913316	2.117051	1.781533
H	-2.417249	1.656952	2.604632
H	-4.837310	-1.766661	-1.920997
H	-3.206323	-1.066803	-1.990677
H	-3.553677	-2.375529	-0.866946
H	-6.271208	-1.455706	0.156974
H	-5.755830	-0.386580	1.465299
H	-4.964764	-1.955330	1.233124
H	-5.939133	0.432215	-1.503963
H	-5.386745	1.511748	-0.218474
H	-4.369413	1.244157	-1.642131

Conformer #7

No. of imaginary frequencies = 0

Total energy = -1463.0920538

C	0.293815	0.205367	-0.846179
C	0.622446	-0.718994	0.334834
N	1.794421	-0.056573	0.585145
C	1.701514	0.840923	-0.566775
O	0.126341	-1.676641	0.866827
C	1.846501	2.285398	-0.259376
H	2.420609	0.589803	-1.352110
C	-0.967318	1.057345	-0.729444
H	0.263597	-0.345015	-1.789982
C	2.572660	3.267363	-0.851286
C	2.278745	4.473150	-0.137924
C	1.404707	4.123233	0.834439
O	1.133765	2.798225	0.775843
C	2.905690	-0.407116	1.412500
C	3.979746	-1.261761	0.752451
O	3.671621	-1.591458	-0.503236
C	4.586368	-2.467654	-1.192529
O	4.986601	-1.588567	1.321616
C	4.320981	-3.917085	-0.840567
C	-1.068675	2.092911	-1.840875
O	-2.062458	0.172814	-0.802862
Si	-3.304855	0.073535	0.320052
C	-2.602757	0.014161	2.054402
C	-4.395242	1.591493	0.143188
C	-4.224737	-1.513810	-0.131557
C	-3.300097	-2.719196	0.103633
C	-5.481681	-1.653375	0.742244
C	-4.636629	-1.469769	-1.611585
H	-0.950329	1.574702	0.238625
H	3.232930	3.145480	-1.695674
H	2.671608	5.460227	-0.321499
H	0.911276	4.671450	1.619440
H	3.392382	0.490325	1.803800
H	2.531408	-0.972162	2.269783
H	5.608061	-2.176163	-0.943463
H	4.400140	-2.271512	-2.248434
H	4.972379	-4.562094	-1.435746
H	3.283262	-4.182359	-1.052896
H	4.527343	-4.103206	0.214549
H	-1.999720	2.654542	-1.736268
H	-0.232704	2.797028	-1.810038
H	-1.077994	1.594793	-2.814287
H	-3.403470	-0.127703	2.787235
H	-1.888505	-0.806753	2.152589
H	-2.087718	0.944664	2.313436

H	-5.219440	1.576879	0.862949
H	-4.821589	1.662292	-0.861365
H	-3.816973	2.503217	0.326564
H	-3.802622	-3.644023	-0.207755
H	-2.367304	-2.628973	-0.458661
H	-3.033078	-2.826362	1.159058
H	-6.007883	-2.584794	0.498673
H	-6.185103	-0.829371	0.582862
H	-5.236839	-1.688339	1.809096
H	-5.160459	-2.394903	-1.884060
H	-5.314351	-0.635685	-1.822368
H	-3.765084	-1.369971	-2.263867

Conformer #8

No. of imaginary frequencies = 0

Total energy = -1463.0919155

C	-0.241662	0.045581	0.802947
C	-0.470458	-0.899394	-0.385787
N	-1.682355	-0.326999	-0.663561
C	-1.679213	0.586926	0.478229
O	0.111983	-1.812150	-0.908718
C	-1.906532	2.015825	0.147922
H	-2.403900	0.300240	1.246111
C	0.963395	0.979024	0.723749
H	-0.205187	-0.500713	1.748931
C	-2.710289	2.956261	0.705876
C	-2.475516	4.169116	-0.017359
C	-1.554855	3.863999	-0.961302
O	-1.200596	2.560095	-0.875909
C	-2.731924	-0.725437	-1.547328
C	-3.856651	-1.533939	-0.915629
O	-3.588914	-1.886838	0.343152
C	-4.588778	-2.664602	1.030532
O	-4.862541	-1.817788	-1.509178
C	-5.656002	-1.773131	1.632635
C	0.963296	2.016410	1.838171
O	2.111961	0.168712	0.829451
Si	3.393741	0.160967	-0.252939
C	2.752748	0.061860	-2.008971
C	4.369903	1.750056	-0.037309
C	4.407103	-1.360914	0.223218
C	3.577954	-2.626602	-0.048271
C	5.699291	-1.406145	-0.608190
C	4.765231	-1.297846	1.716493
H	0.941110	1.496237	-0.244307
H	-3.384223	2.802840	1.534179

H	-2.935990	5.130982	0.141202
H	-1.076732	4.432701	-1.741180
H	-3.186632	0.143783	-2.030208
H	-2.293723	-1.343315	-2.335637
H	-4.030724	-3.199261	1.798773
H	-5.018903	-3.382180	0.330422
H	-6.362539	-2.381888	2.202417
H	-6.209175	-1.249636	0.851168
H	-5.212350	-1.040287	2.310893
H	1.858579	2.637603	1.762181
H	0.084968	2.665128	1.782432
H	0.975634	1.517543	2.811166
H	3.583888	-0.023362	-2.716254
H	2.098397	-0.804543	-2.130893
H	2.185050	0.956877	-2.282602
H	5.215373	1.795995	-0.730593
H	4.758502	1.845372	0.980450
H	3.735896	2.620449	-0.236613
H	4.133549	-3.515903	0.276130
H	2.622717	-2.605893	0.482284
H	3.354978	-2.745288	-1.112664
H	6.280366	-2.300837	-0.351997
H	6.338154	-0.536779	-0.420450
H	5.493413	-1.449629	-1.682947
H	5.343786	-2.185565	2.002394
H	5.374896	-0.419495	1.953752
H	3.867541	-1.264258	2.339407

Compound 11b

Conformer #1

No. of imaginary frequencies = 0

Total energy = -1463.0985297

C	0.708754	0.430158	1.600404
C	2.199296	0.121705	1.791123
N	2.530663	0.771621	0.625576
C	1.143734	1.014982	0.222389
O	2.869418	-0.493512	2.576168
C	0.832462	2.431089	-0.089151
H	0.824396	0.371831	-0.601728
C	-0.214797	-0.775495	1.537484
H	0.315731	1.181359	2.288741
C	1.413080	3.609907	0.245581
C	0.594810	4.633838	-0.334149
C	-0.411760	3.992356	-0.971588
O	-0.277147	2.650426	-0.836269

C	3.685838	0.595112	-0.202662
C	3.692270	-0.672736	-1.050865
O	2.672020	-1.484891	-0.765759
C	2.643567	-2.750510	-1.451970
O	4.540306	-0.905837	-1.868804
C	1.535689	-3.575161	-0.839386
C	-0.398182	-1.426140	2.897745
O	-1.458177	-0.324558	1.034890
Si	-2.288618	-0.981107	-0.260106
C	-1.326671	-0.719608	-1.850728
C	-2.521383	-2.821274	0.025140
C	-3.930806	-0.046313	-0.287310
C	-3.668371	1.447670	-0.539691
C	-4.828695	-0.604799	-1.403137
C	-4.636216	-0.212848	1.068181
H	0.235584	-1.506706	0.848503
H	2.309282	3.730292	0.833296
H	0.741731	5.700730	-0.280157
H	-1.261623	4.325778	-1.543050
H	3.805013	1.446902	-0.875952
H	4.573775	0.554730	0.433224
H	3.618348	-3.228889	-1.338178
H	2.480512	-2.565821	-2.516632
H	1.505031	-4.558113	-1.314971
H	0.563169	-3.100050	-0.984806
H	1.702637	-3.713604	0.230988
H	-1.042117	-2.304449	2.809953
H	0.567124	-1.728994	3.310882
H	-0.870663	-0.720405	3.585994
H	-1.873809	-1.128316	-2.706086
H	-1.154604	0.344965	-2.030187
H	-0.352131	-1.217301	-1.822003
H	-3.003574	-3.297996	-0.833607
H	-3.135544	-3.012108	0.909347
H	-1.558566	-3.319488	0.178287
H	-4.614125	2.003546	-0.514418
H	-3.004110	1.871230	0.218337
H	-3.209664	1.619146	-1.518501
H	-5.783936	-0.066031	-1.424851
H	-5.055613	-1.665366	-1.252232
H	-4.369853	-0.493868	-2.391260
H	-5.584714	0.338677	1.070040
H	-4.868185	-1.261600	1.280591
H	-4.020571	0.169444	1.886614

Conformer #2

No. of imaginary frequencies = 0

Total energy = -1463.0978631

C	0.041634	-0.098402	1.905266
C	1.501864	-0.276538	2.339135
N	1.941091	0.587999	1.366723
C	0.621810	0.708533	0.715099
O	2.097191	-0.926491	3.156876
C	0.113239	2.077242	0.459062
H	0.587239	0.136292	-0.214361
C	-0.741935	-1.345176	1.527705
H	-0.543190	0.510879	2.598514
C	-0.391607	3.062975	1.242904
C	-0.732374	4.141033	0.367108
C	-0.407142	3.725086	-0.879837
O	0.111354	2.476736	-0.841483
C	3.242351	0.693823	0.785873
C	3.490979	-0.379567	-0.266496
O	4.682295	-0.205981	-0.836433
C	5.064933	-1.167110	-1.839632
O	2.721713	-1.260454	-0.546142
C	6.409997	-0.746003	-2.382937
C	-1.104065	-2.180087	2.743684
O	-1.910808	-0.899824	0.869689
Si	-2.460972	-1.294273	-0.659382
C	-1.083310	-1.146174	-1.925016
C	-3.103808	-3.055202	-0.652061
C	-3.831125	-0.029437	-0.980656
C	-3.246998	1.389294	-0.881113
C	-4.421009	-0.242173	-2.383793
C	-4.939270	-0.194127	0.071555
H	-0.120103	-1.947250	0.848319
H	-0.515966	3.023524	2.313547
H	-1.169406	5.090748	0.631202
H	-0.484788	4.177196	-1.854355
H	3.385060	1.678504	0.333071
H	3.992422	0.584156	1.573129
H	4.296119	-1.186341	-2.615180
H	5.101200	-2.155370	-1.375432
H	6.736907	-1.460702	-3.141895
H	7.160136	-0.719240	-1.590192
H	6.352225	0.242516	-2.842944
H	-1.646479	-3.077091	2.436269
H	-0.201384	-2.474896	3.284729
H	-1.745720	-1.601313	3.413418
H	-1.416184	-1.547930	-2.887429
H	-0.788344	-0.104687	-2.081017

H	-0.191559	-1.708275	-1.629900
H	-3.540458	-3.325291	-1.618539
H	-3.868437	-3.192203	0.117345
H	-2.293231	-3.762321	-0.448407
H	-4.037686	2.134892	-1.033086
H	-2.795400	1.571685	0.098022
H	-2.478755	1.568939	-1.639757
H	-5.209611	0.495474	-2.578027
H	-4.869533	-1.235228	-2.493993
H	-3.664171	-0.124402	-3.166477
H	-5.722240	0.559376	-0.082267
H	-5.415064	-1.178243	0.010361
H	-4.546584	-0.069398	1.084464

Conformer #3

No. of imaginary frequencies = 0

Total energy = -1463.0976523

C	0.478149	0.230986	1.909685
C	1.962293	-0.023206	2.209624
N	2.344967	0.612956	1.059360
C	0.972818	0.780988	0.547343
O	2.593876	-0.585098	3.065500
C	0.560098	2.140145	0.124652
H	0.772124	0.083258	-0.268115
C	-0.438423	-0.978549	1.835895
H	0.036512	0.995990	2.552648
C	0.221135	3.278024	0.780880
C	-0.106879	4.241295	-0.224110
C	0.058867	3.612453	-1.411721
O	0.467562	2.337868	-1.218425
C	3.601235	0.612627	0.375451
C	3.787284	-0.473721	-0.676460
O	2.765671	-1.332370	-0.717755
C	2.829652	-2.379381	-1.706842
O	4.759129	-0.530483	-1.380821
C	2.393842	-1.877330	-3.068646
C	-0.731756	-1.556116	3.209402
O	-1.630626	-0.548802	1.209323
Si	-2.359873	-1.191281	-0.150410
C	-1.088025	-1.461825	-1.507598
C	-3.145148	-2.836621	0.282636
C	-3.628979	0.112053	-0.662085
C	-2.919128	1.456419	-0.894537
C	-4.324996	-0.329418	-1.960028
C	-4.677929	0.281528	0.448655
H	0.060959	-1.746483	1.224726

H	0.199440	3.415080	1.850482
H	-0.428359	5.260104	-0.078009
H	-0.070100	3.918352	-2.436419
H	3.771428	1.572609	-0.119273
H	4.394022	0.484226	1.116834
H	2.152754	-3.144822	-1.326379
H	3.844784	-2.778633	-1.732882
H	2.372517	-2.711243	-3.774878
H	3.091439	-1.128084	-3.445571
H	1.392665	-1.444314	-3.017898
H	-1.363416	-2.442930	3.119923
H	0.199547	-1.828000	3.712653
H	-1.260090	-0.817644	3.818127
H	-1.533573	-2.014431	-2.340536
H	-0.710714	-0.512522	-1.898442
H	-0.233344	-2.044495	-1.149732
H	-3.650189	-3.279779	-0.581058
H	-3.877823	-2.725655	1.086408
H	-2.385189	-3.549026	0.619786
H	-3.650603	2.221648	-1.182636
H	-2.406129	1.803060	0.006979
H	-2.176710	1.396857	-1.696794
H	-5.070480	0.416586	-2.261377
H	-4.848779	-1.283891	-1.841090
H	-3.615218	-0.433659	-2.787357
H	-5.404644	1.053408	0.166404
H	-5.234759	-0.644107	0.626433
H	-4.214173	0.584742	1.391489

Conformer #4

No. of imaginary frequencies = 0

Total energy = -1463.097525

C	0.616894	0.252885	1.653884
C	2.105363	-0.018289	1.916147
N	2.483537	0.743529	0.838209
C	1.105347	0.922155	0.346905
O	2.745182	-0.673172	2.695033
C	0.665389	2.308808	0.066361
H	0.921127	0.285248	-0.522991
C	-0.298229	-0.949638	1.496698
H	0.187625	0.958682	2.369008
C	-0.353728	3.072159	0.529208
C	-0.302072	4.299468	-0.208532
C	0.743262	4.180518	-1.058764
O	1.339548	2.971870	-0.910179
C	3.707032	0.680203	0.093863

C	3.829347	-0.503088	-0.860030
O	2.802223	-1.350641	-0.755707
C	2.854653	-2.538093	-1.565502
O	4.756589	-0.649403	-1.609065
C	1.632295	-3.361189	-1.231027
C	-0.497208	-1.689005	2.807611
O	-1.541650	-0.470153	1.016402
Si	-2.300910	-0.911760	-0.407074
C	-1.328678	-0.304854	-1.893935
C	-2.436716	-2.781114	-0.480320
C	-3.990417	-0.067085	-0.313317
C	-3.795206	1.442904	-0.099996
C	-4.765745	-0.303159	-1.619504
C	-4.791655	-0.643561	0.864867
H	0.157780	-1.633682	0.764873
H	-1.064599	2.787568	1.287971
H	-0.955980	5.151503	-0.112876
H	1.177909	4.835044	-1.795562
H	3.847391	1.593612	-0.486856
H	4.539439	0.607838	0.798147
H	3.781181	-3.071166	-1.341609
H	2.880421	-2.245751	-2.618049
H	1.644529	-4.291630	-1.803252
H	0.715925	-2.821103	-1.481127
H	1.613327	-3.610193	-0.167572
H	-1.136988	-2.560778	2.652381
H	0.463884	-2.014757	3.212864
H	-0.981110	-1.031705	3.534865
H	-1.876412	-0.508060	-2.819306
H	-1.149010	0.772725	-1.835342
H	-0.359590	-0.806008	-1.978911
H	-2.910019	-3.108224	-1.411101
H	-3.026131	-3.168827	0.354798
H	-1.448273	-3.249076	-0.434222
H	-4.769072	1.947105	-0.063332
H	-3.276152	1.643231	0.840787
H	-3.215683	1.902098	-0.907409
H	-5.757854	0.160416	-1.555792
H	-4.917533	-1.369227	-1.819855
H	-4.256944	0.135655	-2.483508
H	-5.755424	-0.127154	0.955649
H	-5.004092	-1.708644	0.728305
H	-4.256375	-0.522972	1.811031

Conformer #5

No. of imaginary frequencies = 0

Total energy = -1463.0974593

C	0.171953	0.785908	1.831568
C	1.618423	0.593294	2.307318
N	2.122354	0.961166	1.082811
C	0.795447	1.051275	0.441697
O	2.159428	0.213055	3.310815
C	0.485205	2.334351	-0.231714
H	0.630700	0.216073	-0.243851
C	-0.707614	-0.453408	1.909168
H	-0.331757	1.646692	2.276178
C	-0.410409	3.325438	-0.005517
C	-0.232170	4.277560	-1.061323
C	0.757228	3.787917	-1.842632
O	1.201974	2.603227	-1.356147
C	3.370514	0.587137	0.492909
C	3.325962	-0.824211	-0.079693
O	4.436686	-1.087858	-0.765580
C	4.536879	-2.391443	-1.375210
O	2.414009	-1.595192	0.071444
C	3.785817	-2.445541	-2.690305
C	-1.162762	-0.735569	3.330349
O	-1.818381	-0.228353	1.060728
Si	-2.356952	-1.287069	-0.120219
C	-0.985986	-1.648365	-1.350224
C	-2.892252	-2.893075	0.685542
C	-3.794799	-0.371604	-0.939336
C	-3.294146	0.971656	-1.495257
C	-4.361859	-1.222383	-2.086807
C	-4.897615	-0.109883	0.098284
H	-0.113960	-1.305626	1.545360
H	-1.122902	3.368445	0.802368
H	-0.769223	5.200318	-1.212154
H	1.240019	4.143728	-2.737342
H	3.654127	1.287859	-0.295066
H	4.147638	0.620062	1.260880
H	4.162690	-3.136569	-0.671261
H	5.607114	-2.536570	-1.518978
H	3.936692	-3.422934	-3.155704
H	4.151199	-1.679003	-3.377244
H	2.715412	-2.303860	-2.533046
H	-1.750932	-1.655524	3.364140
H	-0.297921	-0.841452	3.990293
H	-1.786791	0.086258	3.691879
H	-1.311367	-2.408560	-2.067532
H	-0.710425	-0.753524	-1.916076
H	-0.085164	-2.026246	-0.856257

H	-3.286973	-3.598045	-0.052569
H	-3.663710	-2.722363	1.441138
H	-2.042018	-3.376781	1.177233
H	-4.125975	1.524190	-1.950295
H	-2.862230	1.596269	-0.708866
H	-2.531099	0.836650	-2.268620
H	-5.198588	-0.700722	-2.568010
H	-4.741180	-2.186704	-1.732233
H	-3.611105	-1.417644	-2.859565
H	-5.725481	0.445517	-0.360459
H	-5.311111	-1.041933	0.496922
H	-4.521462	0.479440	0.939149

Conformer #6

No. of imaginary frequencies = 0

Total energy = -1463.0973807

C	0.534062	0.520461	1.785387
C	1.983082	0.164900	2.145902
N	2.435705	0.589833	0.923474
C	1.104365	0.851008	0.372141
O	2.552457	-0.335479	3.079310
C	0.916058	2.212506	-0.184731
H	0.804607	0.107003	-0.368642
C	-0.472503	-0.615528	1.852493
H	0.154555	1.400337	2.309532
C	1.469396	3.420763	0.087756
C	0.823895	4.358663	-0.781826
C	-0.064312	3.642969	-1.510149
O	-0.014598	2.334581	-1.163045
C	3.685252	0.358481	0.265312
C	3.749976	-0.877659	-0.622905
O	2.620024	-1.588604	-0.602490
C	2.571696	-2.765347	-1.434658
O	4.724985	-1.159335	-1.265903
C	2.244476	-2.413349	-2.871835
C	-0.805061	-0.992268	3.286478
O	-1.635320	-0.188653	1.168617
Si	-2.414069	-1.040543	-0.042605
C	-1.229491	-1.332506	-1.470271
C	-2.977687	-2.698016	0.629429
C	-3.863925	0.058770	-0.554321
C	-3.337360	1.432976	-0.997885
C	-4.618900	-0.600291	-1.720075
C	-4.820048	0.242435	0.634854
H	-0.029702	-1.489461	1.347632
H	2.236572	3.615968	0.820478

H	1.001812	5.419776	-0.853577
H	-0.772396	3.900941	-2.279609
H	3.957147	1.216051	-0.356520
H	4.460142	0.249568	1.027927
H	1.789805	-3.376913	-0.983381
H	3.526315	-3.288054	-1.358394
H	2.137796	-3.332364	-3.453808
H	3.042919	-1.817857	-3.316799
H	1.304781	-1.859727	-2.931535
H	-1.507934	-1.828412	3.302869
H	0.102199	-1.274605	3.826365
H	-1.268956	-0.142364	3.793755
H	-1.696936	-1.944032	-2.248067
H	-0.912836	-0.387723	-1.921290
H	-0.334731	-1.863744	-1.129980
H	-3.500847	-3.280865	-0.134749
H	-3.652251	-2.571166	1.480415
H	-2.122314	-3.292637	0.966438
H	-4.174594	2.078134	-1.293258
H	-2.791581	1.931061	-0.192499
H	-2.660983	1.354054	-1.854483
H	-5.466148	0.027388	-2.022996
H	-5.022892	-1.580661	-1.446294
H	-3.979951	-0.730551	-2.599645
H	-5.645954	0.908369	0.355144
H	-5.260054	-0.707701	0.954352
H	-4.308781	0.685071	1.494282

Conformer #7

No. of imaginary frequencies = 0

Total energy = -1463.0972952

C	0.245463	-1.657354	-1.166460
C	1.487824	-1.404924	-2.036908
N	2.171165	-0.876562	-0.978827
C	1.027842	-0.919413	-0.054397
O	1.786518	-1.561673	-3.192038
C	1.242694	-1.621798	1.233111
H	0.638835	0.086387	0.127889
C	-1.063141	-1.036501	-1.619648
H	0.102197	-2.719993	-0.955639
C	0.645870	-2.675327	1.840522
C	1.276199	-2.808676	3.120800
C	2.202492	-1.825042	3.186357
O	2.191421	-1.088334	2.048479
C	3.438843	-0.214875	-0.910388
C	3.386794	1.282998	-0.652050

O	2.159921	1.789774	-0.797270
C	1.986274	3.184842	-0.478851
O	4.359750	1.921212	-0.352165
C	1.831968	3.378992	1.016153
C	-1.618485	-1.761013	-2.836080
O	-1.951437	-1.114788	-0.518606
Si	-3.164185	-0.047055	-0.081441
C	-4.106800	0.506066	-1.607087
C	-4.254724	-1.031173	1.070503
C	-2.439651	1.469786	0.813319
C	-1.536819	2.283611	-0.127306
C	-3.593010	2.374007	1.283711
C	-1.629097	1.021651	2.040242
H	-0.875463	0.014841	-1.883288
H	-0.156695	-3.269720	1.434212
H	1.065560	-3.541468	3.883189
H	2.919915	-1.529076	3.933179
H	4.070741	-0.645480	-0.129981
H	3.943594	-0.369344	-1.868243
H	1.081617	3.470006	-1.015604
H	2.834823	3.746468	-0.872071
H	1.600979	4.426254	1.227608
H	2.754197	3.119201	1.538082
H	1.017647	2.761063	1.401544
H	-2.532939	-1.280731	-3.189090
H	-0.882000	-1.756333	-3.643522
H	-1.848749	-2.798137	-2.577595
H	-4.881487	1.233873	-1.348610
H	-3.448860	0.971508	-2.347270
H	-4.597633	-0.346373	-2.085070
H	-5.100055	-0.437692	1.430287
H	-3.690621	-1.381105	1.939156
H	-4.654109	-1.909140	0.555861
H	-1.183938	3.190335	0.380938
H	-0.650709	1.722667	-0.438142
H	-2.066068	2.602533	-1.030926
H	-3.192827	3.243491	1.820078
H	-4.269397	1.852826	1.968113
H	-4.185569	2.754627	0.445810
H	-1.168554	1.889504	2.529656
H	-2.263992	0.528981	2.782878
H	-0.832588	0.320067	1.778088

Conformer #8

No. of imaginary frequencies = 0

Total energy = -1463.0969104

C	0.605179	0.495249	1.590190
C	2.118198	0.309163	1.756485
N	2.379663	0.998342	0.596335
C	0.970817	1.130291	0.214083
O	2.847624	-0.265891	2.519458
C	0.540992	2.519622	-0.075725
H	0.695182	0.472534	-0.613284
C	-0.208190	-0.787777	1.525259
H	0.158363	1.202282	2.292294
C	1.031862	3.738661	0.259015
C	0.122278	4.697915	-0.294624
C	-0.841912	3.982672	-0.919029
O	-0.597287	2.654998	-0.799192
C	3.537156	0.912302	-0.244101
C	3.672294	-0.384419	-1.035924
O	2.614448	-1.186766	-0.885373
C	2.673706	-2.481883	-1.514897
O	4.629410	-0.632020	-1.717760
C	3.394444	-3.477505	-0.630145
C	-0.328728	-1.454810	2.884950
O	-1.488199	-0.451315	1.026640
Si	-2.260511	-1.193160	-0.258751
C	-1.288526	-0.911553	-1.839307
C	-2.373619	-3.037336	0.067686
C	-3.960059	-0.370857	-0.329445
C	-3.792546	1.133157	-0.601304
C	-4.796223	-1.004775	-1.452973
C	-4.679594	-0.564570	1.014869
H	0.305930	-1.473775	0.832728
H	1.926916	3.926262	0.830582
H	0.184622	5.772686	-0.233322
H	-1.727534	4.250788	-1.470305
H	3.545230	1.741092	-0.956461
H	4.435812	1.002371	0.369581
H	3.159152	-2.379668	-2.486564
H	1.628631	-2.757581	-1.661300
H	3.359846	-4.467633	-1.091526
H	2.921538	-3.534577	0.352547
H	4.440837	-3.195595	-0.502538
H	-0.874482	-2.396964	2.794309
H	0.661004	-1.652749	3.303929
H	-0.878627	-0.802635	3.568390
H	-1.785742	-1.381616	-2.693443
H	-1.182396	0.156049	-2.049601
H	-0.284709	-1.342882	-1.768790
H	-2.849517	-3.559112	-0.768131

H	-2.949774	-3.248088	0.972720
H	-1.377241	-3.472072	0.199996
H	-4.773209	1.625582	-0.602135
H	-3.171833	1.611730	0.160681
H	-3.327796	1.320361	-1.574410
H	-5.781876	-0.526230	-1.505501
H	-4.961683	-2.074347	-1.286711
H	-4.323723	-0.883376	-2.433413
H	-5.660732	-0.074074	0.990612
H	-4.849001	-1.623257	1.236680
H	-4.106811	-0.132979	1.839983

Conformer #9

No. of imaginary frequencies = 0

Total energy = -1463.0968697

C	0.611330	0.147058	1.666285
C	2.131976	-0.008714	1.807019
N	2.362357	0.864306	0.774428
C	0.940361	0.964797	0.395861
O	2.879074	-0.656789	2.490785
C	0.377040	2.329507	0.273681
H	0.732370	0.392983	-0.516742
C	-0.213505	-1.108202	1.443699
H	0.174965	0.742926	2.471116
C	-0.508848	3.050630	1.002878
C	-0.693214	4.286975	0.304362
C	0.095680	4.217055	-0.792499
O	0.751318	3.032026	-0.829238
C	3.534336	1.011493	-0.035844
C	3.794734	-0.123692	-1.019826
O	2.912752	-1.116239	-0.894779
C	3.151278	-2.301213	-1.676098
O	4.710590	-0.117713	-1.797270
C	2.211550	-3.368698	-1.166497
C	-0.279359	-1.975981	2.689358
O	-1.496156	-0.663716	1.052567
Si	-2.573037	-1.323810	-0.041177
C	-1.633157	-2.367279	-1.286504
C	-3.811397	-2.391804	0.871938
C	-3.417202	0.153688	-0.874429
C	-2.407732	0.898352	-1.761977
C	-4.590427	-0.335747	-1.738877
C	-3.942176	1.117430	0.201526
H	0.252154	-1.682278	0.628995
H	-0.989687	2.734907	1.914583
H	-1.330427	5.110563	0.584032

H	0.297155	4.894665	-1.605193
H	3.486489	1.945082	-0.599663
H	4.411184	1.067809	0.614027
H	4.198566	-2.586962	-1.559906
H	2.979708	-2.067352	-2.729766
H	2.383057	-4.301001	-1.709709
H	1.169735	-3.076893	-1.312027
H	2.380680	-3.551366	-0.103102
H	-0.840656	-2.891918	2.487380
H	0.728320	-2.243022	3.017727
H	-0.781296	-1.435911	3.496535
H	-2.307334	-2.715954	-2.074740
H	-0.829804	-1.798002	-1.763443
H	-1.194499	-3.252738	-0.816583
H	-4.531342	-2.844695	0.183536
H	-4.369114	-1.805403	1.607392
H	-3.305263	-3.201903	1.405364
H	-2.885684	1.766737	-2.231944
H	-1.561394	1.270318	-1.178454
H	-2.022045	0.262281	-2.565215
H	-5.065776	0.514076	-2.243937
H	-5.360243	-0.831760	-1.139451
H	-4.265402	-1.035350	-2.516694
H	-4.431163	1.979261	-0.269838
H	-4.678557	0.637715	0.854693
H	-3.126905	1.491903	0.825639

Conformer #10

No. of imaginary frequencies = 0

Total energy = -1463.0968142

C	-0.147481	1.306156	0.658162
C	-1.322516	2.234934	0.312312
N	-1.752420	1.390594	-0.670577
C	-0.671931	0.407235	-0.487862
O	-1.736918	3.294292	0.703962
C	-1.089205	-0.971517	-0.128879
H	-0.005017	0.383475	-1.356623
C	1.265765	1.839185	0.511023
H	-0.272439	0.854974	1.645128
C	-0.922138	-1.761258	0.959036
C	-1.593570	-2.993211	0.666244
C	-2.112819	-2.850972	-0.575060
O	-1.805091	-1.630561	-1.077016
C	-2.923229	1.399886	-1.493423
C	-4.041292	0.464503	-1.050162
O	-3.949375	0.144162	0.235854

C	-4.938409	-0.765034	0.747850
O	-4.912358	0.092836	-1.791459
C	-4.592119	-1.040070	2.191768
C	1.595463	2.868216	1.579017
O	2.132739	0.724572	0.604532
Si	3.369789	0.340833	-0.455891
C	2.686205	0.171816	-2.196301
C	4.657699	1.702082	-0.435381
C	4.041973	-1.304189	0.188114
C	2.960049	-2.388435	0.052421
C	5.280461	-1.712110	-0.626041
C	4.430030	-1.156121	1.667883
H	1.355335	2.310999	-0.480750
H	-0.385662	-1.504449	1.858239
H	-1.672627	-3.864359	1.296944
H	-2.692073	-3.493174	-1.217104
H	-3.327286	2.416778	-1.484068
H	-2.680793	1.146398	-2.527695
H	-4.916364	-1.675181	0.143252
H	-5.924871	-0.307931	0.638210
H	-5.324714	-1.729061	2.619267
H	-4.601476	-0.117688	2.776169
H	-3.602104	-1.494208	2.266175
H	2.603660	3.261330	1.429815
H	0.879744	3.693495	1.546398
H	1.549398	2.402839	2.567013
H	3.486289	-0.075557	-2.900922
H	1.933338	-0.618931	-2.256621
H	2.229853	1.104614	-2.542649
H	5.464128	1.495881	-1.145566
H	5.099934	1.819300	0.557658
H	4.210482	2.660939	-0.717006
H	3.316303	-3.332422	0.483440
H	2.038123	-2.108771	0.570502
H	2.709704	-2.582335	-0.995308
H	5.673575	-2.669072	-0.261220
H	6.085553	-0.975106	-0.540638
H	5.050288	-1.839544	-1.689174
H	4.820469	-2.106616	2.052810
H	5.209987	-0.400973	1.810937
H	3.569564	-0.870453	2.278590

Conformer #11

No. of imaginary frequencies = 0

Total energy = -1463.0967806

C	0.590021	0.128825	1.773027
---	----------	----------	----------

C	2.041699	-0.316645	2.002228
N	2.479570	0.410994	0.928087
C	1.124618	0.765429	0.468988
O	2.617619	-1.042766	2.769137
C	0.854222	2.202837	0.232280
H	0.844478	0.177399	-0.411920
C	-0.467607	-0.945631	1.608094
H	0.264094	0.866098	2.510514
C	-0.003429	3.097243	0.780525
C	0.162370	4.315397	0.044758
C	1.106162	4.061365	-0.890441
O	1.533996	2.778706	-0.795037
C	3.721993	0.337142	0.219674
C	3.802324	-0.730964	-0.863163
O	2.670785	-1.430070	-0.973776
C	2.637918	-2.460597	-1.976304
O	4.778969	-0.904373	-1.540450
C	1.211176	-2.949022	-2.064859
C	-0.759966	-1.656800	2.919543
O	-1.611037	-0.287718	1.101699
Si	-2.870119	-0.911419	0.193875
C	-2.364277	-2.561482	-0.542006
C	-4.358652	-1.142441	1.305121
C	-3.206834	0.374804	-1.156565
C	-1.920662	0.636729	-1.955425
C	-4.301433	-0.140024	-2.104882
C	-3.664939	1.691997	-0.510089
H	-0.103164	-1.678614	0.872368
H	-0.684882	2.905702	1.593816
H	-0.352240	5.250693	0.196320
H	1.566669	4.656768	-1.660928
H	3.948946	1.296234	-0.251431
H	4.517363	0.128039	0.938779
H	3.327463	-3.254376	-1.679339
H	2.990513	-2.042982	-2.921673
H	1.136300	-3.742657	-2.811743
H	0.544687	-2.135358	-2.361921
H	0.872555	-3.346916	-1.105609
H	-1.500009	-2.447933	2.770833
H	0.153947	-2.099793	3.323074
H	-1.158570	-0.946113	3.648611
H	-3.209748	-3.012973	-1.069829
H	-1.542646	-2.459319	-1.255193
H	-2.051443	-3.266359	0.234501
H	-5.239670	-1.457519	0.737530
H	-4.604950	-0.213042	1.825507

H	-4.158738	-1.905997	2.062675
H	-2.118492	1.345129	-2.769425
H	-1.145742	1.073756	-1.320974
H	-1.523042	-0.278134	-2.408451
H	-4.515479	0.609656	-2.876554
H	-5.240356	-0.340670	-1.578230
H	-3.998906	-1.059046	-2.617545
H	-3.818602	2.458625	-1.279924
H	-4.610490	1.572341	0.028141
H	-2.916056	2.071078	0.191553

Conformer #12

No. of imaginary frequencies = 0

Total energy = -1463.096624

C	-0.203534	1.051476	1.697425
C	1.191858	0.836109	2.302542
N	1.803706	1.094607	1.101921
C	0.540677	1.167910	0.345765
O	1.637300	0.517404	3.372742
C	0.336281	2.395923	-0.458914
H	0.400905	0.278144	-0.274562
C	-1.184243	-0.101682	1.832463
H	-0.670370	1.983898	2.023124
C	-0.611352	3.363911	-0.468956
C	-0.275554	4.242256	-1.550527
C	0.847362	3.735653	-2.108818
O	1.231003	2.608262	-1.460918
C	3.103086	0.696715	0.657065
C	3.125289	-0.750207	0.182160
O	4.323464	-1.065663	-0.306412
C	4.484281	-2.411069	-0.796545
O	2.190721	-1.505669	0.235370
C	5.892310	-2.538521	-1.328171
C	-1.677457	-0.237096	3.264739
O	-2.255908	0.168759	0.946767
Si	-3.179743	-0.919121	0.070338
C	-3.454626	-2.479206	1.076956
C	-4.792940	-0.027778	-0.236386
C	-2.323035	-1.347029	-1.572465
C	-1.041977	-2.158410	-1.318413
C	-3.272490	-2.192451	-2.439126
C	-1.977510	-0.055089	-2.330239
H	-0.667852	-1.026930	1.538698
H	-1.455511	3.430857	0.198345
H	-0.801541	5.129760	-1.864160
H	1.471196	4.043998	-2.930985

H	3.448917	1.345305	-0.150883
H	3.807110	0.798036	1.486805
H	3.735736	-2.589216	-1.572166
H	4.290193	-3.106451	0.023284
H	6.044188	-3.546229	-1.722088
H	6.626088	-2.362865	-0.539001
H	6.069862	-1.823473	-2.134062
H	-2.346578	-1.094730	3.359318
H	-0.832906	-0.370428	3.945297
H	-2.225442	0.663708	3.554672
H	-3.994897	-3.229388	0.491583
H	-2.511100	-2.929563	1.399353
H	-4.047648	-2.265615	1.970700
H	-5.480357	-0.636958	-0.830334
H	-4.626697	0.913290	-0.767542
H	-5.282568	0.206641	0.712710
H	-0.544908	-2.385250	-2.270302
H	-0.314116	-1.630650	-0.696946
H	-1.257712	-3.113413	-0.828944
H	-2.784529	-2.451028	-3.387259
H	-4.193894	-1.654575	-2.683016
H	-3.548452	-3.132295	-1.949815
H	-2.877520	0.509106	-2.595133
H	-1.338255	0.609658	-1.744276
H	-1.452069	-0.291122	-3.264311

Compound 11c

Conformer #1

No. of imaginary frequencies = 0

Total energy = -1463.0206855

C	0.186053	1.491201	-0.394991
C	1.443368	2.111050	0.233282
N	2.070683	0.899803	0.266924
C	0.955570	0.130516	-0.292321
O	1.802235	3.209316	0.571565
C	-1.148044	1.671263	0.305177
H	0.078705	1.799942	-1.438332
C	3.390157	0.520432	0.654626
C	4.228480	0.055978	-0.524633
O	5.459924	-0.259292	-0.120839
C	6.369253	-0.729446	-1.134066
O	3.839031	-0.031893	-1.657962
C	7.697928	-0.995287	-0.466643
C	-1.548866	3.140620	0.327279
O	-2.081154	0.884968	-0.411683

Si	-3.540234	0.264984	0.120536
C	-3.311703	-0.546856	1.792578
C	-4.830655	1.621172	0.255201
C	-4.024125	-0.991998	-1.210438
C	-2.901733	-2.028053	-1.375364
C	-5.320275	-1.710239	-0.801047
C	-4.242723	-0.270111	-2.549682
H	-1.062756	1.301383	1.335250
H	3.871027	1.385443	1.117914
H	3.368845	-0.280250	1.402108
H	6.447129	0.032735	-1.912665
H	5.949529	-1.630884	-1.586951
H	8.415038	-1.352239	-1.209700
H	7.599866	-1.756267	0.310268
H	8.095951	-0.084721	-0.014470
H	-2.489949	3.276133	0.864533
H	-0.775110	3.739021	0.813793
H	-1.681619	3.507170	-0.694309
H	-4.262653	-0.941517	2.163532
H	-2.596452	-1.371803	1.739802
H	-2.944372	0.168821	2.534752
H	-5.828482	1.194200	0.397556
H	-4.851123	2.236810	-0.648086
H	-4.632608	2.279322	1.106096
H	-3.174966	-2.761499	-2.144704
H	-1.965498	-1.550455	-1.675500
H	-2.712467	-2.575021	-0.446182
H	-5.605724	-2.440448	-1.568328
H	-6.157278	-1.013284	-0.688743
H	-5.204865	-2.254734	0.141814
H	-4.500704	-0.995080	-3.332039
H	-5.060441	0.455633	-2.492961
H	-3.341174	0.261223	-2.867740
H	1.186510	-0.299637	-1.268938
C	0.475653	-0.961876	0.592264
C	0.228187	-2.273871	0.354414
O	0.302036	-0.692039	1.913803
C	-0.133545	-2.852967	1.612192
H	0.295583	-2.765367	-0.603138
C	-0.066655	-1.847130	2.515637
H	-0.399053	-3.878514	1.813513
H	-0.246929	-1.789381	3.576034

Conformer #2

No. of imaginary frequencies = 0

Total energy = -1463.0200834

C	-0.262996	1.461693	0.327664
C	-1.521724	2.029181	-0.346540
N	-2.113374	0.799868	-0.362756
C	-0.985472	0.075588	0.229771
O	-1.901658	3.107143	-0.724912
C	1.082672	1.669448	-0.342365
H	-0.191570	1.792963	1.367156
C	-3.393102	0.360892	-0.815330
C	-4.251179	-0.181303	0.314538
O	-5.430159	-0.588826	-0.159721
C	-6.370487	-1.128224	0.790695
O	-3.911289	-0.252444	1.465152
C	-7.135148	-0.027035	1.496688
C	1.442139	3.149010	-0.381002
O	2.019105	0.923463	0.411993
Si	3.503865	0.325691	-0.071506
C	3.335136	-0.531350	-1.727930
C	4.765370	1.708275	-0.210913
C	3.982536	-0.886572	1.302092
C	2.882158	-1.947119	1.460576
C	5.307901	-1.579650	0.947029
C	4.143595	-0.127075	2.628666
H	1.034581	1.279714	-1.367428
H	-3.901583	1.212278	-1.274707
H	-3.299286	-0.415681	-1.582714
H	-5.829113	-1.754998	1.501397
H	-7.030124	-1.751926	0.187788
H	-7.882992	-0.469520	2.159811
H	-7.650774	0.610557	0.775298
H	-6.464503	0.586262	2.100522
H	2.390786	3.302000	-0.900054
H	0.662607	3.716472	-0.894738
H	1.542090	3.536355	0.636644
H	4.304016	-0.912535	-2.065247
H	2.637955	-1.371338	-1.672527
H	2.970434	0.157511	-2.496266
H	5.774485	1.301300	-0.330847
H	4.758498	2.341491	0.680321
H	4.565681	2.345400	-1.077365
H	3.148945	-2.652242	2.258130
H	1.924460	-1.486527	1.716682
H	2.737316	-2.523753	0.541392
H	5.588775	-2.285961	1.738043
H	6.129741	-0.863546	0.843973
H	5.234556	-2.146955	0.013402
H	4.395164	-0.826218	3.436227

H	4.945228	0.616728	2.577453
H	3.220550	0.389811	2.906315
H	-1.223290	-0.350928	1.206259
C	-0.454051	-1.011627	-0.631887
C	-0.174989	-2.313729	-0.375311
O	-0.266188	-0.751641	-1.953662
C	0.223011	-2.896359	-1.620441
H	-0.246108	-2.796895	0.586187
C	0.143706	-1.902724	-2.536239
H	0.520020	-3.916244	-1.805961
H	0.340016	-1.851807	-3.594132

Conformer #3

No. of imaginary frequencies = 0

Total energy = -1463.0199438

C	0.200572	1.537445	-0.500425
C	1.424779	2.250393	0.094710
N	2.092118	1.068888	0.235736
C	1.013622	0.217890	-0.274411
O	1.737631	3.384359	0.350542
C	-1.149669	1.728599	0.165446
H	0.099346	1.754658	-1.567185
C	3.408496	0.762764	0.691394
C	4.292234	0.215319	-0.416498
O	5.508377	-0.059002	0.059872
C	6.465832	-0.615336	-0.862875
O	3.944381	0.043467	-1.553936
C	6.284440	-2.112545	-1.011423
C	-1.613252	3.173329	0.028667
O	-2.038330	0.833587	-0.475295
Si	-3.473395	0.196867	0.100112
C	-3.218154	-0.496859	1.820187
C	-4.812856	1.510552	0.151078
C	-3.903308	-1.158245	-1.151233
C	-2.736278	-2.152140	-1.252832
C	-5.168811	-1.905811	-0.701505
C	-4.146936	-0.524207	-2.529878
H	-1.063647	1.473171	1.229767
H	3.855166	1.678331	1.086942
H	3.384999	0.032146	1.507442
H	7.432582	-0.371472	-0.423271
H	6.365496	-0.106202	-1.822764
H	7.064871	-2.510852	-1.664873
H	5.315902	-2.342714	-1.458139
H	6.360575	-2.610131	-0.042157
H	-2.559742	3.327366	0.551128

H	-0.866334	3.855053	0.442112
H	-1.761272	3.415744	-1.027229
H	-4.157565	-0.889548	2.221464
H	-2.482630	-1.305104	1.817848
H	-2.865339	0.274624	2.511862
H	-5.794094	1.056985	0.323634
H	-4.857922	2.065647	-0.789727
H	-4.638532	2.228204	0.957897
H	-2.968022	-2.933784	-1.987707
H	-1.816976	-1.650495	-1.566003
H	-2.536681	-2.644569	-0.295716
H	-5.424069	-2.686516	-1.428734
H	-6.034211	-1.239391	-0.624430
H	-5.030874	-2.394573	0.268519
H	-4.375954	-1.301377	-3.270034
H	-4.991702	0.171928	-2.513831
H	-3.265790	0.022078	-2.878119
H	1.276200	-0.280870	-1.209701
C	0.561260	-0.817548	0.689953
C	0.367467	-2.153089	0.555793
O	0.370166	-0.451355	1.985271
C	0.023376	-2.645331	1.855064
H	0.458908	-2.714827	-0.360289
C	0.045221	-1.569137	2.676102
H	-0.202919	-3.661540	2.135953
H	-0.143091	-1.435021	3.728110

Conformer #4

No. of imaginary frequencies = 0

Total energy = -1463.0199094

C	0.226509	-1.361193	0.181787
C	1.393557	-1.902985	-0.657636
N	2.110355	-0.755273	-0.477864
C	1.119418	-0.088875	0.374881
O	1.644445	-2.918616	-1.253158
C	-1.129002	-1.251090	-0.494360
H	0.115678	-1.912225	1.119175
C	3.453431	-0.411420	-0.814981
C	4.368620	-0.387111	0.398830
O	5.604041	-0.036188	0.039581
C	6.583515	0.040966	1.092735
O	4.030253	-0.633578	1.525227
C	7.887661	0.482646	0.471510
C	-1.678419	-2.633216	-0.817451
O	-1.977625	-0.549439	0.394384
Si	-3.282592	0.436045	0.036217

C	-2.972141	2.087713	0.854546
C	-3.416398	0.643514	-1.823926
C	-4.852301	-0.358336	0.754961
C	-4.707070	-0.483965	2.280093
C	-6.068974	0.524871	0.431106
C	-5.076500	-1.755507	0.159213
H	-1.015292	-0.687102	-1.427426
H	3.826980	-1.151254	-1.527473
H	3.500296	0.566730	-1.305050
H	6.665908	-0.940710	1.564898
H	6.228981	0.747816	1.846598
H	8.655302	0.554226	1.245629
H	7.782208	1.461165	-0.001340
H	8.223495	-0.233776	-0.280802
H	-2.626827	-2.549168	-1.352787
H	-0.971222	-3.191155	-1.435712
H	-1.852045	-3.192267	0.106414
H	-3.840155	2.748186	0.766769
H	-2.750579	1.957109	1.917258
H	-2.117172	2.588000	0.393579
H	-4.241055	1.316728	-2.075966
H	-3.591167	-0.306789	-2.336260
H	-2.498879	1.080359	-2.228720
H	-5.593413	-0.969703	2.707594
H	-3.832838	-1.083808	2.550523
H	-4.606096	0.494374	2.760179
H	-6.978421	0.084615	0.858723
H	-6.229771	0.621106	-0.647634
H	-5.968154	1.531563	0.849151
H	-6.003731	-2.189760	0.554257
H	-5.169451	-1.727605	-0.931837
H	-4.259785	-2.435452	0.413776
H	1.467452	0.019455	1.404468
C	0.702166	1.252181	-0.105429
C	0.751847	2.469890	0.490781
O	0.261943	1.383427	-1.384532
C	0.300799	3.417306	-0.482629
H	1.067683	2.663490	1.503804
C	0.019658	2.699252	-1.594931
H	0.196829	4.484102	-0.365658
H	-0.343665	2.961342	-2.574735

Conformer #5

No. of imaginary frequencies = 0

Total energy = -1463.0184418

C	0.614358	-0.968968	-0.819395
---	----------	-----------	-----------

C	1.862442	-0.802563	-1.697480
N	2.310145	0.240160	-0.936544
C	1.197108	0.219329	0.017314
O	2.333899	-1.352541	-2.658400
C	-0.758698	-0.852301	-1.454665
H	0.660788	-1.905808	-0.256922
C	3.567328	0.918406	-0.903276
C	4.563974	0.407102	0.128069
O	4.099247	-0.635144	0.818653
C	4.988461	-1.202886	1.798231
O	5.644745	0.905731	0.292075
C	4.265727	-2.357647	2.451249
C	-0.981332	-1.967757	-2.467509
O	-1.689811	-0.916304	-0.392561
Si	-3.262657	-0.350879	-0.336138
C	-3.327180	1.418467	-0.944792
C	-4.387462	-1.415094	-1.396103
C	-3.728929	-0.483099	1.495114
C	-2.694347	0.271066	2.343833
C	-5.119429	0.130957	1.721878
C	-3.747174	-1.961139	1.915705
H	-0.836062	0.118772	-1.960614
H	4.037820	0.819690	-1.884511
H	3.423208	1.986660	-0.717865
H	5.257251	-0.426208	2.517934
H	5.902301	-1.523502	1.293351
H	4.915962	-2.821904	3.196333
H	3.993478	-3.113952	1.712392
H	3.357305	-2.017442	2.953328
H	-1.953195	-1.858369	-2.953670
H	-0.201283	-1.950458	-3.232110
H	-0.955577	-2.938796	-1.965677
H	-4.361572	1.770158	-1.004636
H	-2.773997	2.088792	-0.282344
H	-2.892879	1.506706	-1.945782
H	-5.440131	-1.202121	-1.184507
H	-4.214353	-2.478790	-1.212776
H	-4.224303	-1.225853	-2.461243
H	-2.949036	0.193843	3.408767
H	-1.692268	-0.141873	2.200824
H	-2.653404	1.334664	2.088049
H	-5.402981	0.042623	2.777943
H	-5.892864	-0.375044	1.134520
H	-5.141679	1.194919	1.464769
H	-3.982221	-2.050094	2.983998
H	-4.502836	-2.530232	1.364917

H	-2.776314	-2.435908	1.746246
H	1.504562	-0.093546	1.018662
C	0.480819	1.514124	0.140612
C	0.115268	2.245246	1.223229
O	0.167848	2.187871	-0.997610
C	-0.471449	3.449608	0.719784
H	0.245982	1.957836	2.254603
C	-0.406036	3.355896	-0.629083
H	-0.878767	4.272176	1.285611
H	-0.714881	4.004864	-1.431393

Conformer #6

No. of imaginary frequencies = 0

Total energy = -1463.0180401

C	0.545903	-1.192776	-0.408855
C	1.800955	-1.292541	-1.288000
N	2.246098	-0.074976	-0.860119
C	1.110893	0.202054	0.023584
O	2.274060	-2.097421	-2.047503
C	-0.823056	-1.298073	-1.054208
H	0.597187	-1.907250	0.417602
C	3.482584	0.610397	-1.061477
C	4.473299	0.532088	0.091588
O	4.043709	-0.248437	1.084727
C	4.930236	-0.424470	2.207982
O	5.519790	1.123425	0.086157
C	5.956974	-1.504302	1.933974
C	-1.029728	-2.680961	-1.657727
O	-1.761579	-1.029217	-0.030212
Si	-3.333978	-0.477154	-0.175363
C	-3.395936	0.998655	-1.326264
C	-4.451482	-1.830487	-0.839844
C	-3.816501	-0.008230	1.594902
C	-2.790012	0.983339	2.163309
C	-5.208812	0.642831	1.600855
C	-3.838400	-1.270231	2.471987
H	-0.904748	-0.540047	-1.843700
H	3.971038	0.179482	-1.939186
H	3.311182	1.670139	-1.272027
H	4.268340	-0.701660	3.028459
H	5.407105	0.531109	2.432255
H	6.556844	-1.671791	2.832137
H	6.626799	-1.206721	1.125803
H	5.468182	-2.443361	1.666060
H	-1.999669	-2.743217	-2.155831
H	-0.244722	-2.901322	-2.384851

H	-0.999298	-3.439724	-0.871074
H	-4.432928	1.299237	-1.505083
H	-2.858450	1.854087	-0.909671
H	-2.950403	0.766641	-2.298667
H	-5.505276	-1.563673	-0.710625
H	-4.277250	-2.777426	-0.321961
H	-4.285658	-1.995541	-1.908434
H	-3.056006	1.253680	3.193374
H	-1.786671	0.549435	2.172695
H	-2.746655	1.907253	1.577796
H	-5.497256	0.905783	2.626240
H	-5.978755	-0.030557	1.209987
H	-5.231257	1.563460	1.008569
H	-4.081709	-1.008276	3.509555
H	-4.589919	-1.989123	2.130315
H	-2.866422	-1.771968	2.471893
H	1.390420	0.229822	1.079996
C	0.392358	1.462067	-0.296988
C	0.011143	2.510632	0.474545
O	0.100040	1.717777	-1.599546
C	-0.563220	3.477470	-0.410999
H	0.127706	2.585389	1.544136
C	-0.476878	2.940523	-1.650481
H	-0.977809	4.440194	-0.158012
H	-0.771024	3.284017	-2.628123

Conformer #7

No. of imaginary frequencies = 0

Total energy = -1463.0176531

C	0.422347	1.407475	-0.662936
C	1.634079	2.208680	-0.162105
N	2.258398	1.072323	0.263710
C	1.181367	0.153516	-0.111529
O	1.965855	3.365209	-0.133808
C	-0.954319	1.753471	-0.126859
H	0.380016	1.394729	-1.755489
C	3.520950	0.851535	0.894677
C	4.509788	0.011463	0.102709
O	4.109454	-0.209872	-1.150978
C	4.962575	-1.031105	-1.971797
O	5.536275	-0.396450	0.576955
C	4.682570	-2.502343	-1.739793
C	-1.365416	3.156776	-0.552345
O	-1.834882	0.771973	-0.640600
Si	-3.319794	0.295307	-0.034326
C	-3.184585	-0.007319	1.808576

C	-4.620631	1.609529	-0.356237
C	-3.719617	-1.296052	-0.980596
C	-2.573743	-2.304132	-0.805779
C	-5.020203	-1.907139	-0.434343
C	-3.891475	-0.980156	-2.474718
H	-0.932406	1.697571	0.969279
H	3.981369	1.827513	1.070916
H	3.398922	0.367710	1.868904
H	6.003691	-0.785939	-1.757216
H	4.723819	-0.732402	-2.992320
H	5.298064	-3.104787	-2.412490
H	3.632714	-2.731932	-1.937077
H	4.922936	-2.783639	-0.713083
H	-2.335164	3.418944	-0.123921
H	-0.624663	3.888217	-0.221333
H	-1.445818	3.209208	-1.641512
H	-4.162086	-0.259824	2.230743
H	-2.493774	-0.824679	2.030414
H	-2.825108	0.885034	2.330687
H	-5.626431	1.209992	-0.192134
H	-4.565656	1.976745	-1.384494
H	-4.496754	2.465202	0.313910
H	-2.799415	-3.231946	-1.347073
H	-1.633531	-1.902241	-1.192717
H	-2.415597	-2.563125	0.246009
H	-5.263742	-2.827285	-0.979924
H	-5.872035	-1.228316	-0.545837
H	-4.932950	-2.168768	0.625220
H	-4.099261	-1.900562	-3.035095
H	-4.725138	-0.293087	-2.651837
H	-2.987425	-0.528539	-2.893352
H	1.475778	-0.542917	-0.900474
C	0.644328	-0.640890	1.023058
C	0.408515	-1.968556	1.167699
O	0.399951	0.001535	2.196071
C	-0.020936	-2.159026	2.519608
H	0.525626	-2.719414	0.402433
C	-0.001582	-0.931976	3.090382
H	-0.297696	-3.084212	2.999368
H	-0.237242	-0.569484	4.076927

Conformer #8

No. of imaginary frequencies = 0

Total energy = -1463.017785

C	0.513215	1.340591	-0.463253
C	1.731947	2.049083	0.147476

N	2.269361	0.861587	0.552994
C	1.188491	0.018807	0.037307
O	2.125443	3.182083	0.245148
C	-0.873021	1.719344	0.023606
H	0.532495	1.403075	-1.554804
C	3.537410	0.531322	1.120473
C	4.548224	-0.073427	0.156332
O	4.137246	-0.025692	-1.112072
C	5.020454	-0.578751	-2.107053
O	5.597701	-0.531633	0.521780
C	4.828552	-2.076644	-2.233324
C	-1.196208	3.163011	-0.338299
O	-1.770471	0.812122	-0.588449
Si	-3.314581	0.396253	-0.095193
C	-3.311049	0.001977	1.735648
C	-4.520385	1.796206	-0.426804
C	-3.746634	-1.125314	-1.137087
C	-2.658278	-2.195381	-0.965444
C	-5.097556	-1.696241	-0.676685
C	-3.836933	-0.729236	-2.619285
H	-0.910817	1.600632	1.114105
H	3.978064	1.446760	1.524219
H	3.422690	-0.169923	1.951967
H	6.049667	-0.330692	-1.843651
H	4.747692	-0.060287	-3.025977
H	5.458323	-2.459944	-3.040077
H	3.788315	-2.314866	-2.467697
H	5.112158	-2.582494	-1.308901
H	-2.172133	3.449808	0.059177
H	-0.438686	3.837533	0.067563
H	-1.220341	3.279565	-1.425250
H	-4.328420	-0.192176	2.088842
H	-2.698933	-0.876956	1.953747
H	-2.916547	0.838158	2.321431
H	-5.553979	1.445933	-0.340668
H	-4.384711	2.208174	-1.430305
H	-4.393041	2.610732	0.292156
H	-2.904124	-3.084257	-1.560814
H	-1.684419	-1.822000	-1.292755
H	-2.556968	-2.511739	0.077616
H	-5.365016	-2.570688	-1.283015
H	-5.908789	-0.968320	-0.781566
H	-5.067672	-2.020286	0.368641
H	-4.061955	-1.610009	-3.234120
H	-4.629416	0.005038	-2.796199
H	-2.895506	-0.301933	-2.976888

H	1.507434	-0.623684	-0.787962
C	0.547417	-0.838944	1.066556
C	0.255588	-2.163262	1.089831
O	0.232092	-0.276035	2.262829
C	-0.287069	-2.435773	2.385904
H	0.406190	-2.860222	0.280605
C	-0.271317	-1.255699	3.048750
H	-0.634137	-3.381323	2.770885
H	-0.571990	-0.959032	4.039666

Conformer #9

No. of imaginary frequencies = 0

Total energy = -1463.017704

C	0.619922	-0.937890	-0.508967
C	1.785249	-0.942679	-1.509119
N	2.347219	0.158647	-0.926627
C	1.352547	0.280088	0.145686
O	2.136285	-1.624245	-2.436397
C	-0.788564	-0.783759	-1.055653
H	0.653873	-1.815880	0.141863
C	3.645518	0.739659	-1.065248
C	4.699110	0.223286	-0.093607
O	4.254572	-0.791435	0.648479
C	5.193676	-1.378234	1.568078
O	5.804585	0.688464	-0.020876
C	4.486774	-2.513982	2.270335
C	-1.173776	-1.993907	-1.894484
O	-1.644913	-0.632750	0.060687
Si	-3.087964	0.208697	0.168434
C	-2.907125	1.471726	1.534088
C	-3.439793	1.060755	-1.465925
C	-4.454062	-1.035529	0.605947
C	-4.110196	-1.719720	1.939173
C	-5.799825	-0.304509	0.743837
C	-4.575292	-2.106691	-0.487853
H	-0.829377	0.113727	-1.683552
H	4.009859	0.536114	-2.075382
H	3.594969	1.825645	-0.949168
H	5.529110	-0.607172	2.265776
H	6.063614	-1.722847	1.004610
H	5.170699	-2.990969	2.976217
H	4.152295	-3.265376	1.552376
H	3.619082	-2.150793	2.825524
H	-2.164897	-1.853425	-2.331917
H	-0.450597	-2.146283	-2.699220
H	-1.195752	-2.892258	-1.270985

H	-3.854247	1.982831	1.731801
H	-2.576254	0.997060	2.461827
H	-2.165593	2.226438	1.261658
H	-4.381340	1.615304	-1.411730
H	-3.518341	0.349925	-2.293425
H	-2.648628	1.775750	-1.709334
H	-4.872084	-2.468832	2.189171
H	-3.142774	-2.228105	1.889106
H	-4.073094	-1.002015	2.764773
H	-6.589433	-1.017411	1.012095
H	-6.101297	0.178161	-0.191645
H	-5.774116	0.460780	1.526002
H	-5.377008	-2.813190	-0.238992
H	-4.814458	-1.670401	-1.463555
H	-3.649460	-2.678433	-0.590357
H	1.766756	0.026770	1.125585
C	0.731062	1.623818	0.251570
C	0.705467	2.522326	1.268258
O	0.149019	2.161098	-0.851935
C	0.055296	3.691749	0.760097
H	1.103717	2.367828	2.258741
C	-0.257058	3.411049	-0.526518
H	-0.149338	4.612780	1.281948
H	-0.744895	3.967600	-1.309349

Compound 26b

Conformer #1

No. of imaginary frequencies = 0

Total energy = -1422.8363536

C	0.523705	0.028672	1.720498
C	1.972434	-0.392035	2.020852
N	2.442300	0.320244	0.952416
C	1.134091	0.724814	0.466089
O	2.524929	-1.094759	2.824195
C	0.934265	2.217427	0.359694
H	0.844078	0.240318	-0.467492
C	-0.460945	-1.095823	1.442487
H	0.113034	0.724829	2.455901
C	3.723016	0.327092	0.321318
C	3.756571	-0.564499	-0.909720
O	4.954503	-0.510586	-1.492378
C	5.119655	-1.307161	-2.669795
O	2.834167	-1.221892	-1.313495
C	-0.797455	-1.875334	2.702855
O	-1.629015	-0.515289	0.898664

Si	-2.365019	-0.971084	-0.534735
C	-1.224362	-0.639437	-1.985279
C	-2.764089	-2.802294	-0.468319
C	-3.925141	0.096337	-0.617937
C	-3.532999	1.582309	-0.617948
C	-4.705500	-0.226127	-1.902347
C	-4.811836	-0.192809	0.603437
O	-0.224340	2.484496	-0.247917
O	1.698802	3.052911	0.763666
C	-0.578184	3.864505	-0.358398
H	0.006141	-1.777467	0.713789
H	4.461314	-0.036764	1.040154
H	4.013275	1.343537	0.040867
H	-3.436070	-3.036207	0.361772
H	-1.851595	-3.392905	-0.338001
H	-5.007772	-1.277785	-1.944593
H	-4.121489	-0.006251	-2.802069
H	-5.152152	-1.233158	0.621637
H	-4.281316	0.005435	1.538732
H	0.161425	4.402064	-0.953917
H	-0.967476	0.421996	-2.043787
H	6.143695	-1.139096	-2.994476
H	4.957248	-2.361460	-2.441881
H	4.415400	-0.993118	-3.441527
H	-1.482937	-2.691291	2.462922
H	0.108046	-2.287880	3.154309
H	-1.285782	-1.217288	3.426488
H	-1.704626	-0.926365	-2.926087
H	-0.294331	-1.212066	-1.908259
H	-3.239257	-3.137722	-1.395202
H	-4.433081	2.209774	-0.649787
H	-2.919344	1.836748	-1.488368
H	-2.964573	1.842857	0.278786
H	-5.619931	0.378151	-1.950332
H	-5.706213	0.442845	0.580733
H	-0.643938	4.321285	0.630240
H	-1.549343	3.877577	-0.847972

Conformer #2

No. of imaginary frequencies = 0

Total energy = -1422.8351491

C	-0.518765	-0.028000	-1.790049
C	-1.959542	-0.527233	-1.994820
N	-2.404334	0.197847	-0.924971
C	-1.097994	0.711383	-0.548858
O	-2.518682	-1.283811	-2.743283

C	-1.005982	2.219489	-0.542312
H	-0.715813	0.310298	0.394017
C	0.503150	-1.110421	-1.479741
H	-0.158635	0.635469	-2.579601
C	-3.655084	0.191715	-0.236089
C	-3.596368	-0.624523	1.044225
O	-4.774210	-0.597853	1.669126
C	-4.854070	-1.332506	2.894275
O	-2.625532	-1.206348	1.450138
C	0.865520	-1.909177	-2.722470
O	1.629310	-0.467056	-0.925720
Si	2.720342	-1.086313	0.182560
C	1.865344	-2.388747	1.226285
C	4.174298	-1.846499	-0.723043
C	3.271529	0.395830	1.227407
C	2.118403	0.847434	2.136871
C	4.478461	0.001463	2.093450
C	3.661849	1.558232	0.300269
O	0.230903	2.609394	-0.232126
O	-1.918061	2.969437	-0.772113
C	0.461699	4.018428	-0.177289
H	0.056170	-1.786601	-0.735381
H	-4.408131	-0.242544	-0.898291
H	-3.972638	1.211457	-0.001736
H	4.704299	-1.098327	-1.319246
H	3.839896	-2.636396	-1.401757
H	5.340770	-0.288621	1.485091
H	4.245828	-0.829950	2.767923
H	4.494609	1.292268	-0.359271
H	2.817499	1.859682	-0.324856
H	-0.187467	4.481890	0.567210
H	0.933974	-2.014711	1.661359
H	-5.865898	-1.179289	3.261972
H	-4.668194	-2.392197	2.713790
H	-4.123859	-0.956227	3.612197
H	1.550519	-2.721187	-2.465807
H	-0.031856	-2.337634	-3.175576
H	1.358501	-1.261255	-3.452097
H	2.515801	-2.702807	2.048735
H	1.627166	-3.282325	0.641212
H	4.889058	-2.289426	-0.022864
H	2.427335	1.715460	2.733976
H	1.816102	0.061146	2.835534
H	1.246315	1.146995	1.550269
H	4.787571	0.848829	2.718150
H	3.980102	2.424084	0.896001

H	0.274942	4.473811	-1.151002
H	1.507071	4.130251	0.102153

Conformer #3

No. of imaginary frequencies = 0

Total energy = -1422.834662

C	0.741914	0.213438	1.638616
C	2.207378	-0.194418	1.867562
N	2.602486	0.435215	0.720031
C	1.264936	0.809439	0.296004
O	2.811206	-0.843782	2.678312
C	1.049624	2.291281	0.099071
H	0.908900	0.259689	-0.576852
C	-0.262158	-0.921495	1.520383
H	0.386501	0.966438	2.346023
C	3.841827	0.399033	0.008364
C	3.911515	-0.605971	-1.132754
O	2.822623	-1.379203	-1.208831
C	2.826749	-2.360874	-2.249538
O	4.848855	-0.686106	-1.878410
C	-0.510211	-1.588634	2.862905
O	-1.462587	-0.379525	1.007083
Si	-2.300054	-0.967299	-0.317932
C	-1.238589	-0.816216	-1.858713
C	-2.715782	-2.773765	-0.034289
C	-3.842979	0.119756	-0.424616
C	-3.425444	1.585957	-0.621182
C	-4.712322	-0.326400	-1.611425
C	-4.650269	-0.004795	0.877130
O	-0.101697	2.506308	-0.543471
O	1.791957	3.158473	0.474082
C	-0.481215	3.873182	-0.720298
H	0.152788	-1.666130	0.821709
H	4.631552	0.139003	0.717587
H	4.083224	1.383994	-0.398758
H	-3.342905	-2.904669	0.851626
H	-1.804205	-3.362147	0.112739
H	-5.045388	-1.364282	-1.507258
H	-4.182657	-0.234323	-2.565379
H	-5.003395	-1.027998	1.040316
H	-4.055378	0.290332	1.745774
H	0.261353	4.401218	-1.320338
H	-0.979789	0.228485	-2.052418
H	1.866210	-2.866618	-2.178604
H	2.938803	-1.882492	-3.223393
H	3.642563	-3.069299	-2.099728

H	-1.214940	-2.415102	2.746807
H	0.425039	-1.969449	3.280333
H	-0.939703	-0.866144	3.561918
H	-1.762244	-1.208945	-2.735606
H	-0.307727	-1.383296	-1.754093
H	-3.244420	-3.200100	-0.892155
H	-4.314032	2.229236	-0.653312
H	-2.880090	1.727364	-1.559962
H	-2.783019	1.929355	0.193846
H	-5.611209	0.299009	-1.675849
H	-5.534568	0.643545	0.836743
H	-0.579834	4.367633	0.247245
H	-1.440781	3.844947	-1.231567

Conformer #4

No. of imaginary frequencies = 0

Total energy = -1422.8344266

C	-0.352237	-1.433975	1.199109
C	-1.695527	-1.093978	1.868868
N	-2.248025	-0.743832	0.670392
C	-1.046984	-0.968772	-0.115570
O	-2.129834	-1.082405	2.989990
C	-1.206359	-2.016864	-1.192742
H	-0.612168	-0.060507	-0.537647
C	0.838144	-0.613445	1.672724
H	-0.112557	-2.499924	1.216793
C	-3.509775	-0.162199	0.342328
C	-3.382591	1.304691	-0.029463
O	-4.579012	1.817151	-0.319924
C	-4.600253	3.198026	-0.694276
O	-2.351866	1.922271	-0.070747
C	1.275825	-1.067168	3.058729
O	1.871152	-0.779622	0.724043
Si	3.075140	0.304377	0.296468
C	3.719728	1.185034	1.823535
C	4.402429	-0.764698	-0.468465
C	2.424577	1.574997	-0.960350
C	1.278461	2.406429	-0.361621
C	3.567704	2.527017	-1.353867
C	1.927409	0.847780	-2.219995
O	-0.089775	-2.119987	-1.913842
O	-2.199666	-2.669573	-1.379667
C	-0.093513	-3.104373	-2.950035
H	0.528422	0.441218	1.719823
H	-4.163723	-0.252006	1.213122
H	-3.984950	-0.702117	-0.481986

H	4.002909	-1.331752	-1.313337
H	4.781621	-1.481037	0.265316
H	4.420775	1.991867	-1.783368
H	3.928695	3.110310	-0.500985
H	2.747759	0.339784	-2.737491
H	1.169482	0.094660	-1.989914
H	-0.884136	-2.895691	-3.672425
H	2.929029	1.730326	2.347651
H	-5.645921	3.433351	-0.877649
H	-4.202678	3.816757	0.111292
H	-4.007824	3.356341	-1.596636
H	2.079216	-0.431942	3.435521
H	0.435886	-1.022763	3.756440
H	1.641760	-2.096406	3.010413
H	4.496626	1.906903	1.555431
H	4.158647	0.471106	2.526062
H	5.246293	-0.167885	-0.826528
H	0.953034	3.170312	-1.078831
H	1.584701	2.928383	0.550996
H	0.395743	1.807764	-0.123201
H	3.217410	3.240849	-2.109966
H	1.490775	1.566866	-2.924843
H	-0.244554	-4.098932	-2.527674
H	0.883730	-3.033978	-3.421934

Conformer #5

No. of imaginary frequencies = 0

Total energy = -1422.8341688

C	0.520311	0.677701	1.475729
C	1.972101	0.378778	1.872925
N	2.419196	0.638527	0.601306
C	1.088099	0.818518	0.030057
O	2.548361	0.008472	2.859320
C	0.803538	2.121603	-0.680208
H	0.781346	0.003742	-0.625036
C	-0.480935	-0.450549	1.672656
H	0.133761	1.609213	1.895000
C	3.634939	0.224150	-0.024919
C	3.523440	-1.173719	-0.618965
O	4.646463	-1.501462	-1.257446
C	4.676988	-2.806125	-1.846601
O	2.560173	-1.886602	-0.527467
C	-0.786122	-0.684461	3.142677
O	-1.655093	-0.090133	0.975088
Si	-2.436583	-1.039771	-0.165812
C	-1.314526	-1.338992	-1.636510

C	-2.885167	-2.683402	0.619490
C	-3.963266	-0.032750	-0.643609
C	-3.531918	1.381048	-1.066115
C	-4.687203	-0.718841	-1.813408
C	-4.916145	0.065218	0.558146
O	1.451287	3.154236	-0.136853
O	0.047734	2.213463	-1.612308
C	1.170919	4.436083	-0.704884
H	-0.042064	-1.366349	1.246936
H	4.426239	0.215980	0.728850
H	3.937474	0.926641	-0.805901
H	-3.484497	-2.540506	1.522713
H	-1.984892	-3.240752	0.897722
H	-4.989658	-1.742879	-1.567979
H	-4.063207	-0.756932	-2.711869
H	-5.300833	-0.916138	0.853941
H	-4.421541	0.511447	1.425923
H	1.781601	5.142322	-0.147226
H	-1.042966	-0.396583	-2.121348
H	5.659174	-2.897880	-2.303907
H	4.536715	-3.570465	-1.081170
H	3.893075	-2.900402	-2.599342
H	-1.490099	-1.512955	3.248518
H	0.128701	-0.918569	3.692470
H	-1.240600	0.210708	3.575551
H	-1.814511	-1.972876	-2.375572
H	-0.393741	-1.852138	-1.339930
H	-3.457133	-3.310800	-0.071114
H	-4.409241	1.964157	-1.374377
H	-2.829224	1.366477	-1.904402
H	-3.045754	1.908463	-0.241495
H	-5.597816	-0.163699	-2.070922
H	-5.779959	0.693028	0.304914
H	0.111590	4.674096	-0.596494
H	1.434139	4.451403	-1.763662

Conformer #6

No. of imaginary frequencies = 0

Total energy = -1422.8338704

C	0.660801	1.076890	1.417045
C	1.994453	0.472807	1.893010
N	2.451320	0.374568	0.610360
C	1.245835	0.886737	-0.014919
O	2.474969	0.153192	2.947292
C	1.456477	2.154505	-0.811933
H	0.700185	0.152847	-0.612059

C	-0.578927	0.268275	1.767587
H	0.526463	2.123425	1.700528
C	3.635794	-0.208347	0.062863
C	3.458995	-1.584082	-0.560883
O	2.236882	-2.089999	-0.367391
C	2.016285	-3.400273	-0.899339
O	4.335965	-2.147615	-1.157049
C	-0.900316	0.410925	3.248759
O	-1.636965	0.741171	0.959339
Si	-2.966973	-0.096215	0.382697
C	-3.600016	-1.286988	1.687941
C	-4.230588	1.226086	0.008443
C	-2.513932	-1.055438	-1.198349
C	-1.415552	-2.092346	-0.914187
C	-3.758063	-1.790415	-1.725164
C	-2.019251	-0.074363	-2.273062
O	0.345569	2.481605	-1.473868
O	2.478171	2.787331	-0.843419
C	0.397726	3.690090	-2.236117
H	-0.371547	-0.789285	1.544368
H	4.366128	-0.310446	0.869744
H	4.076400	0.449459	-0.690401
H	-3.827536	1.961168	-0.693105
H	-4.508934	1.755268	0.923733
H	-4.578225	-1.099747	-1.944741
H	-4.125377	-2.537477	-1.014685
H	-2.812607	0.614288	-2.580280
H	-1.178443	0.531339	-1.925536
H	1.174629	3.625856	-2.999375
H	-2.831889	-1.998722	2.005215
H	0.988774	-3.649496	-0.645469
H	2.154422	-3.398389	-1.981572
H	2.709330	-4.112544	-0.449936
H	-1.750246	-0.216848	3.521831
H	-0.037637	0.119019	3.852851
H	-1.151399	1.451363	3.471880
H	-4.447117	-1.863760	1.305051
H	-3.942825	-0.745986	2.574238
H	-5.140255	0.802292	-0.426957
H	-1.179945	-2.650324	-1.830013
H	-1.726230	-2.820750	-0.157589
H	-0.486587	-1.628647	-0.570810
H	-3.518387	-2.316405	-2.657772
H	-1.697860	-0.622083	-3.168315
H	0.603050	4.541040	-1.584977
H	-0.583012	3.788732	-2.695546

Conformer #7**No. of imaginary frequencies = 0****Total energy = -1422.8327667**

C	0.665276	0.449250	1.479198
C	2.113124	0.063139	1.815956
N	2.538505	0.410422	0.561284
C	1.208574	0.692079	0.037960
O	2.694222	-0.400538	2.759515
C	0.960199	2.061490	-0.550759
H	0.856636	-0.049719	-0.679506
C	-0.397065	-0.628339	1.616739
H	0.341769	1.363434	1.982143
C	3.777236	0.153900	-0.105238
C	3.811265	-1.093500	-0.978041
O	2.706712	-1.835636	-0.863461
C	2.677993	-3.035405	-1.643002
O	4.741447	-1.368005	-1.685746
C	-0.666700	-0.972742	3.072082
O	-1.567335	-0.133261	1.001186
Si	-2.471157	-0.912702	-0.175637
C	-1.406081	-1.217097	-1.690033
C	-3.068366	-2.556830	0.501413
C	-3.892086	0.278464	-0.536647
C	-3.322510	1.605470	-1.063320
C	-4.829701	-0.331249	-1.591353
C	-4.681330	0.543229	0.755523
O	1.675353	3.013898	0.050278
O	0.176044	2.263096	-1.440927
C	1.434383	4.351703	-0.395330
H	-0.037124	-1.530000	1.095432
H	4.551179	0.034653	0.657557
H	4.069322	1.001009	-0.731440
H	-3.684410	-2.417752	1.393900
H	-2.222875	-3.196176	0.776135
H	-5.276211	-1.271052	-1.249743
H	-4.312236	-0.524512	-2.536828
H	-5.136958	-0.370511	1.150790
H	-4.040411	0.965720	1.534130
H	0.387673	4.618185	-0.240993
H	-1.029754	-0.275589	-2.100392
H	1.706002	-3.485423	-1.454020
H	2.794867	-2.803869	-2.702397
H	3.477391	-3.708489	-1.330525
H	-1.418231	-1.762890	3.134929
H	0.249438	-1.307673	3.564509

H	-1.048391	-0.092719	3.596175
H	-1.975919	-1.728778	-2.471820
H	-0.547556	-1.852328	-1.446470
H	-3.661771	-3.100748	-0.239702
H	-4.137402	2.316197	-1.250659
H	-2.775664	1.474431	-2.001307
H	-2.635151	2.059898	-0.345223
H	-5.652146	0.361751	-1.807151
H	-5.492235	1.256464	0.561391
H	1.676559	4.451433	-1.454387
H	2.083460	4.982135	0.207765

Compound 26d

Conformer #1

No. of imaginary frequencies = 0

Total energy = -1422.8344224

C	0.541212	-0.333567	-1.303813
C	1.961101	-0.646442	-1.804696
N	2.514590	0.170670	-0.860645
C	1.258959	0.550476	-0.238034
C	0.946364	2.026346	-0.322625
H	1.133061	0.194162	0.786003
O	2.445227	-1.338696	-2.659400
C	3.875907	0.481777	-0.552745
C	4.417541	-0.134657	0.726923
O	3.508424	-0.870790	1.373628
O	5.542647	0.037328	1.109462
C	3.956621	-1.500580	2.577379
H	-0.029024	0.256574	-2.023833
C	-0.294166	-1.503156	-0.783363
O	1.579617	2.832460	-0.951142
O	-0.147457	2.314906	0.386387
C	-0.589528	3.673872	0.340455
O	-1.338143	-0.997064	0.023334
C	0.504960	-2.509986	0.028906
Si	-2.879433	-0.574482	-0.479855
C	-2.789073	0.834667	-1.716465
C	-3.700591	-2.058771	-1.277812
C	-3.771133	-0.049158	1.103474
C	-3.605334	-1.139753	2.173470
C	-3.172988	1.267318	1.624807
C	-5.266470	0.155518	0.809993
H	4.019473	1.564060	-0.488345
H	4.497475	0.121734	-1.376024
H	4.301435	-0.753626	3.293688

H	4.770067	-2.194196	2.360725
H	3.093010	-2.035309	2.966460
H	-0.702750	-2.020430	-1.663160
H	-0.845025	3.954619	-0.683001
H	-1.468668	3.714523	0.979450
H	0.188151	4.342814	0.711450
H	-0.165650	-3.291555	0.390001
H	1.285231	-2.969099	-0.582561
H	0.974120	-2.033882	0.893343
H	-3.785342	1.232534	-1.932975
H	-2.175466	1.650323	-1.324072
H	-2.357233	0.507804	-2.667537
H	-4.691321	-1.796368	-1.661020
H	-3.820167	-2.877979	-0.563407
H	-3.115939	-2.434423	-2.123113
H	-4.116832	-0.842770	3.097600
H	-4.037606	-2.093180	1.852495
H	-2.551288	-1.309953	2.406587
H	-3.655542	1.553080	2.567867
H	-3.330477	2.084774	0.913110
H	-2.097886	1.178197	1.802500
H	-5.434757	0.919405	0.043047
H	-5.747963	-0.769008	0.476359
H	-5.785968	0.486660	1.717562

Conformer #2

No. of imaginary frequencies = 0

Total energy = -1422.8336803

C	-0.336821	-0.056445	1.198062
C	-1.627861	-0.570091	1.858594
N	-2.402290	0.076746	0.936976
C	-1.290062	0.618802	0.171756
C	-1.264075	2.128013	0.120185
H	-1.194951	0.212317	-0.838330
O	-1.906040	-1.275172	2.791810
C	-3.811662	0.057141	0.704211
C	-4.174945	-0.741856	-0.534806
O	-5.497497	-0.753038	-0.709380
O	-3.389761	-1.279295	-1.269556
C	-5.975848	-1.469399	-1.851741
H	0.202496	0.660358	1.819677
C	0.622930	-1.104717	0.627405
O	-2.167855	2.844512	0.462980
O	-0.102062	2.570977	-0.368053
C	0.032919	3.990111	-0.480690
O	1.385531	-0.500399	-0.399062

C	-0.077459	-2.325181	0.052262
Si	2.870271	0.257885	-0.270354
C	2.973264	1.378785	-1.759153
C	2.945118	1.253769	1.319354
C	4.244266	-1.054636	-0.305789
C	4.038990	-2.076506	0.824386
C	4.205449	-1.793093	-1.653539
C	5.616073	-0.382708	-0.133666
H	-4.203596	1.072884	0.602093
H	-4.292285	-0.397762	1.573765
H	-7.055671	-1.340931	-1.845414
H	-5.715384	-2.525872	-1.772825
H	-5.545243	-1.058860	-2.766066
H	1.270970	-1.431233	1.451597
H	-0.073434	4.463189	0.496603
H	1.031096	4.157736	-0.879965
H	-0.721662	4.391600	-1.158712
H	0.667804	-2.990591	-0.388170
H	-0.612711	-2.867146	0.835489
H	-0.791561	-2.043916	-0.725920
H	3.926749	1.914087	-1.796385
H	2.865730	0.810296	-2.686362
H	2.163655	2.111471	-1.722356
H	3.916387	1.745522	1.426813
H	2.791629	0.632061	2.206760
H	2.175663	2.031078	1.310497
H	4.853829	-2.811231	0.823338
H	4.028100	-1.603107	1.811879
H	3.103182	-2.630315	0.701626
H	4.955724	-2.593597	-1.669126
H	4.425515	-1.122826	-2.490159
H	3.226632	-2.247771	-1.834402
H	5.806057	0.366917	-0.909132
H	5.712607	0.107319	0.840452
H	6.414738	-1.131916	-0.202045

Conformer #3

No. of imaginary frequencies = 0

Total energy = -1422.8334606

C	-0.215233	-0.383656	0.981322
C	-1.488017	-0.789761	1.741397
N	-2.260360	0.006471	0.945653
C	-1.176659	0.468120	0.094470
C	-0.933964	1.958336	0.155712
H	-1.239051	0.131886	-0.941035
O	-1.756534	-1.520664	2.657260

C	-3.669459	0.232510	0.907911
C	-4.305332	-0.340834	-0.345966
O	-5.622324	-0.125416	-0.339717
O	-3.713881	-0.898342	-1.231139
C	-6.343395	-0.607995	-1.477256
H	0.447413	0.233021	1.592490
C	0.574351	-1.479078	0.270993
O	-1.410033	2.702039	0.973533
O	-0.095785	2.338582	-0.809597
C	0.299249	3.711634	-0.795052
O	1.380735	-0.845434	-0.701601
C	-0.300691	-2.531537	-0.393222
Si	3.047122	-0.802145	-0.817753
C	3.726728	-2.541636	-0.645019
C	3.363664	-0.108482	-2.521750
C	3.790806	0.327699	0.523171
C	3.122590	1.710130	0.465354
C	3.587095	-0.275656	1.922328
C	5.299939	0.489147	0.272172
H	-3.896019	1.301694	0.968813
H	-4.113849	-0.245183	1.784442
H	-7.387202	-0.372292	-1.284131
H	-6.206441	-1.684661	-1.586024
H	-5.998863	-0.109043	-2.384336
H	1.195031	-1.976110	1.029285
H	0.810697	3.948178	0.139685
H	0.976607	3.829548	-1.637758
H	-0.569424	4.362398	-0.905290
H	0.333918	-3.245393	-0.922136
H	-0.885966	-3.072814	0.354357
H	-0.988172	-2.082915	-1.114340
H	4.818328	-2.548267	-0.719551
H	3.459409	-2.994102	0.314418
H	3.335389	-3.184638	-1.438577
H	4.432651	0.005247	-2.722547
H	2.886922	0.868996	-2.633329
H	2.944518	-0.771316	-3.283441
H	3.539870	2.368310	1.237963
H	3.279551	2.196372	-0.502833
H	2.043645	1.642441	0.625432
H	4.018109	0.384041	2.685743
H	4.073634	-1.250880	2.020502
H	2.529231	-0.404229	2.169936
H	5.826716	-0.469963	0.309192
H	5.505366	0.950759	-0.698532
H	5.743343	1.133884	1.041280

Conformer #4**No. of imaginary frequencies = 0****Total energy = -1422.8327343**

C	0.541212	-0.333567	-1.303813
C	1.961101	-0.646442	-1.804696
N	2.514590	0.170670	-0.860645
C	1.258959	0.550476	-0.238034
C	0.946364	2.026346	-0.322625
H	1.133061	0.194162	0.786003
O	2.445227	-1.338696	-2.659400
C	3.875907	0.481777	-0.552745
C	4.417541	-0.134657	0.726923
O	3.508424	-0.870790	1.373628
O	5.542647	0.037328	1.109462
C	3.956621	-1.500580	2.577379
H	-0.029024	0.256574	-2.023833
C	-0.294166	-1.503156	-0.783363
O	1.579617	2.832460	-0.951142
O	-0.147457	2.314906	0.386387
C	-0.589528	3.673872	0.340455
O	-1.338143	-0.997064	0.023334
C	0.504960	-2.509986	0.028906
Si	-2.879433	-0.574482	-0.479855
C	-2.789073	0.834667	-1.716465
C	-3.700591	-2.058771	-1.277812
C	-3.771133	-0.049158	1.103474
C	-3.605334	-1.139753	2.173470
C	-3.172988	1.267318	1.624807
C	-5.266470	0.155518	0.809993
H	4.019473	1.564060	-0.488345
H	4.497475	0.121734	-1.376024
H	4.301435	-0.753626	3.293688
H	4.770067	-2.194196	2.360725
H	3.093010	-2.035309	2.966460
H	-0.702750	-2.020430	-1.663160
H	-0.845025	3.954619	-0.683001
H	-1.468668	3.714523	0.979450
H	0.188151	4.342814	0.711450
H	-0.165650	-3.291555	0.390001
H	1.285231	-2.969099	-0.582561
H	0.974120	-2.033882	0.893343
H	-3.785342	1.232534	-1.932975
H	-2.175466	1.650323	-1.324072
H	-2.357233	0.507804	-2.667537
H	-4.691321	-1.796368	-1.661020

H	-3.820167	-2.877979	-0.563407
H	-3.115939	-2.434423	-2.123113
H	-4.116832	-0.842770	3.097600
H	-4.037606	-2.093180	1.852495
H	-2.551288	-1.309953	2.406587
H	-3.655542	1.553080	2.567867
H	-3.330477	2.084774	0.913110
H	-2.097886	1.178197	1.802500
H	-5.434757	0.919405	0.043047
H	-5.747963	-0.769008	0.476359
H	-5.785968	0.486660	1.717562

Conformer #5

No. of imaginary frequencies = 0

Total energy = -1422.8323951

C	0.249379	1.355650	0.379547
C	1.596930	2.087339	0.282974
N	2.086335	1.149922	-0.591149
C	0.870032	0.329605	-0.590486
C	1.054120	-1.075014	-0.044386
H	0.390671	0.266911	-1.571055
O	2.089523	3.080659	0.745059
C	3.400550	0.935470	-1.114411
C	4.283783	-0.012319	-0.313712
O	3.731079	-0.361216	0.847729
O	5.358745	-0.387015	-0.697353
C	4.498172	-1.233934	1.679821
H	0.098621	0.922668	1.369121
C	-1.018339	2.058716	-0.111018
O	0.688571	-1.474348	1.028097
O	1.689063	-1.830571	-0.946985
C	1.958911	-3.179324	-0.556652
O	-1.957542	1.063048	-0.467172
C	-0.787749	2.959550	-1.313225
Si	-3.104828	0.339513	0.520439
C	-2.372441	-0.042762	2.201405
C	-4.558878	1.504093	0.721378
C	-3.581882	-1.236757	-0.413886
C	-4.291165	-0.871506	-1.727585
C	-2.315212	-2.047144	-0.733348
C	-4.522494	-2.087244	0.455019
H	3.913900	1.900375	-1.147813
H	3.352520	0.550926	-2.135452
H	3.845169	-1.491529	2.510425
H	5.393284	-0.723088	2.037610
H	4.793948	-2.126470	1.125770

H	-1.400708	2.674719	0.714723
H	1.024710	-3.710689	-0.369080
H	2.494144	-3.626156	-1.390999
H	2.570468	-3.196389	0.346901
H	-1.736262	3.397070	-1.628886
H	-0.092422	3.765089	-1.065240
H	-0.382342	2.390909	-2.154943
H	-3.126122	-0.499051	2.850782
H	-1.523109	-0.727044	2.125607
H	-2.028787	0.869734	2.699664
H	-5.361884	1.038315	1.301290
H	-4.968242	1.800010	-0.248073
H	-4.258661	2.413918	1.250570
H	-4.524652	-1.780679	-2.296019
H	-5.234881	-0.347280	-1.547424
H	-3.664311	-0.233490	-2.357651
H	-2.582658	-2.975191	-1.254558
H	-1.763975	-2.319293	0.171844
H	-1.641202	-1.480824	-1.382792
H	-4.038363	-2.412310	1.381216
H	-5.436045	-1.545393	0.722533
H	-4.827370	-2.989349	-0.089778

Conformer #6

No. of imaginary frequencies = 0

Total energy = -1422.832079

C	0.452959	-0.778474	-1.253111
C	1.903783	-1.069791	-1.665769
N	2.349116	0.067695	-1.035516
C	1.049408	0.385883	-0.434574
C	0.545060	1.776065	-0.768087
H	1.028844	0.231884	0.646019
O	2.489641	-1.928693	-2.266096
C	3.673756	0.493365	-0.701154
C	4.178046	0.083702	0.675724
O	3.369988	-0.786659	1.283049
O	5.202967	0.499340	1.143917
C	3.801832	-1.256401	2.563395
H	-0.132994	-0.405644	-2.094623
C	-0.336176	-1.818965	-0.458205
O	-0.126051	2.069130	-1.721685
O	0.967641	2.654984	0.145752
C	0.549216	4.010235	-0.044536
O	-1.326970	-1.125156	0.277805
C	0.509196	-2.631042	0.508832
Si	-2.899856	-0.801402	-0.205714

C	-2.928338	-0.214545	-1.984289
C	-3.918179	-2.366190	-0.044046
C	-3.481060	0.549010	0.987503
C	-3.532715	-0.007838	2.418948
C	-2.503525	1.734709	0.942282
C	-4.881276	1.031481	0.575581
H	3.768535	1.579496	-0.770663
H	4.359462	0.060321	-1.434632
H	3.045620	-1.970220	2.882460
H	3.870806	-0.427448	3.269244
H	4.775115	-1.741166	2.479238
H	-0.800652	-2.509219	-1.176214
H	-0.539249	4.075106	-0.002350
H	0.997001	4.571717	0.771967
H	0.897141	4.386299	-1.007625
H	-0.133134	-3.316862	1.064182
H	1.265393	-3.207378	-0.029307
H	1.014448	-1.976434	1.222971
H	-3.957113	-0.024240	-2.305501
H	-2.351089	0.704333	-2.119489
H	-2.517843	-0.973825	-2.658088
H	-4.975293	-2.177839	-0.255413
H	-3.841903	-2.785291	0.962716
H	-3.574602	-3.127717	-0.751168
H	-3.824308	0.781647	3.123072
H	-4.265319	-0.815636	2.512764
H	-2.559362	-0.395650	2.733569
H	-2.845509	2.529849	1.617182
H	-2.424689	2.161997	-0.062532
H	-1.501556	1.434043	1.262838
H	-4.879786	1.481202	-0.422260
H	-5.614138	0.217738	0.578860
H	-5.239312	1.793892	1.278483

Conformer #7

No. of imaginary frequencies = 0

Total energy = -1422.8320409

C	-0.465852	0.029316	1.187795
C	-1.773692	-0.442761	1.846608
N	-2.525138	0.165336	0.880832
C	-1.395574	0.661047	0.111972
C	-1.341807	2.166527	-0.001956
H	-1.282629	0.207858	-0.876162
O	-2.072828	-1.101113	2.806640
C	-3.936036	0.178508	0.644161
C	-4.420175	-0.715485	-0.486026

O	-3.424682	-1.366962	-1.096083
O	-5.576811	-0.811585	-0.793627
C	-3.811459	-2.245786	-2.156355
H	0.060372	0.774970	1.786610
C	0.503928	-1.047715	0.694334
O	-2.199237	2.918628	0.378858
O	-0.204800	2.558985	-0.584525
C	-0.032896	3.970814	-0.736951
O	1.285683	-0.508752	-0.352972
C	-0.186142	-2.300668	0.179588
Si	2.758977	0.278460	-0.245836
C	2.892921	1.260431	-1.827349
C	2.772546	1.413964	1.248691
C	4.148891	-1.011700	-0.118746
C	3.915288	-1.936226	1.086889
C	4.171465	-1.863909	-1.398084
C	5.504047	-0.304676	0.045386
H	-4.280381	1.195352	0.439197
H	-4.433196	-0.156107	1.557733
H	-2.888400	-2.695370	-2.515733
H	-4.302840	-1.687284	-2.954435
H	-4.491663	-3.012684	-1.783795
H	1.135179	-1.326502	1.548274
H	-0.062506	4.465776	0.234811
H	0.942787	4.098626	-1.201198
H	-0.816509	4.383199	-1.374149
H	0.566598	-2.994532	-0.199740
H	-0.747516	-2.790203	0.978626
H	-0.875515	-2.059508	-0.633352
H	3.839460	1.805971	-1.885196
H	2.823073	0.607525	-2.701027
H	2.072225	1.979636	-1.881389
H	3.732058	1.932414	1.334794
H	2.608309	0.871982	2.185140
H	1.990579	2.172599	1.152276
H	4.743950	-2.648868	1.183801
H	3.851410	-1.381556	2.029050
H	2.997777	-2.521660	0.973670
H	4.931360	-2.651174	-1.316270
H	4.414919	-1.265344	-2.281319
H	3.206105	-2.348079	-1.575432
H	5.710537	0.386196	-0.778849
H	5.558227	0.260340	0.981234
H	6.315212	-1.043064	0.062628

Conformer #8

No. of imaginary frequencies = 0

Total energy = -1422.8319844

C	0.207480	1.271486	0.447288
C	1.558496	1.996856	0.518045
N	2.096726	1.163844	-0.428221
C	0.874353	0.374588	-0.621969
C	1.072758	-1.106951	-0.359927
H	0.459117	0.474155	-1.627940
O	2.023057	2.925572	1.122647
C	3.439417	0.980637	-0.878438
C	4.183457	-0.089617	-0.091186
O	5.402389	-0.270114	-0.599916
O	3.745264	-0.684763	0.855151
C	6.209362	-1.262802	0.040613
H	0.016985	0.723741	1.369298
C	-1.039148	2.038476	0.009740
O	1.577452	-1.835552	-1.175803
O	0.657526	-1.497436	0.840754
C	0.938490	-2.856368	1.184851
O	-1.984947	1.093224	-0.455913
C	-0.782911	3.055413	-1.089924
Si	-3.165536	0.321095	0.449410
C	-2.479935	-0.187312	2.119687
C	-4.606916	1.491548	0.698174
C	-3.642640	-1.187787	-0.588929
C	-4.291693	-0.730621	-1.904703
C	-2.383406	-2.009938	-0.906301
C	-4.636471	-2.059326	0.195769
H	3.974692	1.926879	-0.761817
H	3.459984	0.715118	-1.938336
H	7.159562	-1.253244	-0.488046
H	5.735502	-2.242130	-0.040670
H	6.353267	-1.016409	1.093450
H	-1.427103	2.572065	0.888835
H	2.017753	-3.009199	1.219797
H	0.498383	-3.005482	2.168479
H	0.492168	-3.534038	0.455293
H	-1.720715	3.542463	-1.362412
H	-0.074785	3.816600	-0.753489
H	-0.382391	2.571629	-1.984939
H	-3.259396	-0.664740	2.721381
H	-1.649356	-0.890200	2.013124
H	-2.120379	0.678536	2.684823
H	-5.427606	1.005364	1.234713
H	-4.993240	1.851668	-0.259063
H	-4.301880	2.363226	1.285716

H	-4.532398	-1.599618	-2.529942
H	-5.224895	-0.186425	-1.728362
H	-3.623488	-0.081102	-2.477553
H	-2.649067	-2.903275	-1.485095
H	-1.876020	-2.345409	0.003783
H	-1.669346	-1.430132	-1.497369
H	-4.197144	-2.447466	1.120314
H	-5.546556	-1.509575	0.458731
H	-4.941319	-2.922384	-0.408989

Conformer #9

No. of imaginary frequencies = 0

Total energy = -1422.8319249

C	-0.336829	-0.202966	1.014649
C	-1.627670	-0.477328	1.802748
N	-2.358431	0.291712	0.942846
C	-1.259549	0.598478	0.043920
C	-0.930555	2.070286	-0.062512
H	-1.347355	0.151726	-0.947655
O	-1.931721	-1.117087	2.773426
C	-3.756894	0.577585	0.873535
C	-4.519892	-0.153649	-0.220201
O	-3.770762	-1.056661	-0.858759
O	-5.674081	0.065258	-0.469821
C	-4.433815	-1.805975	-1.881139
H	0.343141	0.447266	1.569059
C	0.418426	-1.391129	0.429357
O	-1.285580	2.912867	0.718901
O	-0.164730	2.305048	-1.129239
C	0.309064	3.644957	-1.279675
O	1.264109	-0.894530	-0.588134
C	-0.486115	-2.472956	-0.141797
Si	2.935503	-0.931276	-0.660376
C	3.528950	-2.655800	-0.221165
C	3.333031	-0.502965	-2.432874
C	3.686667	0.346913	0.533348
C	3.039909	1.721539	0.303438
C	3.465874	-0.079034	1.994088
C	5.199034	0.454286	0.272349
H	-3.928154	1.649297	0.741950
H	-4.206221	0.293362	1.828561
H	-4.788095	-1.140743	-2.669931
H	-5.281259	-2.350169	-1.462494
H	-3.688223	-2.497661	-2.266853
H	1.005409	-1.832578	1.246632
H	0.935060	3.921939	-0.429451

H	0.892705	3.647297	-2.197445
H	-0.526622	4.342224	-1.353813
H	0.127868	-3.275772	-0.554955
H	-1.130728	-2.889513	0.635998
H	-1.115734	-2.075452	-0.941302
H	4.621507	-2.705012	-0.191022
H	3.159088	-2.976738	0.757091
H	3.183010	-3.380946	-0.963311
H	4.406755	-0.570676	-2.629620
H	3.003985	0.511187	-2.674531
H	2.820406	-1.190335	-3.110898
H	3.466761	2.462646	0.990813
H	3.204721	2.083020	-0.716655
H	1.960135	1.691556	0.469714
H	3.893892	0.665876	2.676352
H	3.944539	-1.038005	2.214678
H	2.404657	-0.171032	2.244603
H	5.709885	-0.503499	0.416460
H	5.413031	0.801646	-0.743135
H	5.652105	1.172349	0.967107

3.4. HPLC with *on-line* ECD analysis in combination with TDDFT calculations: a representative example

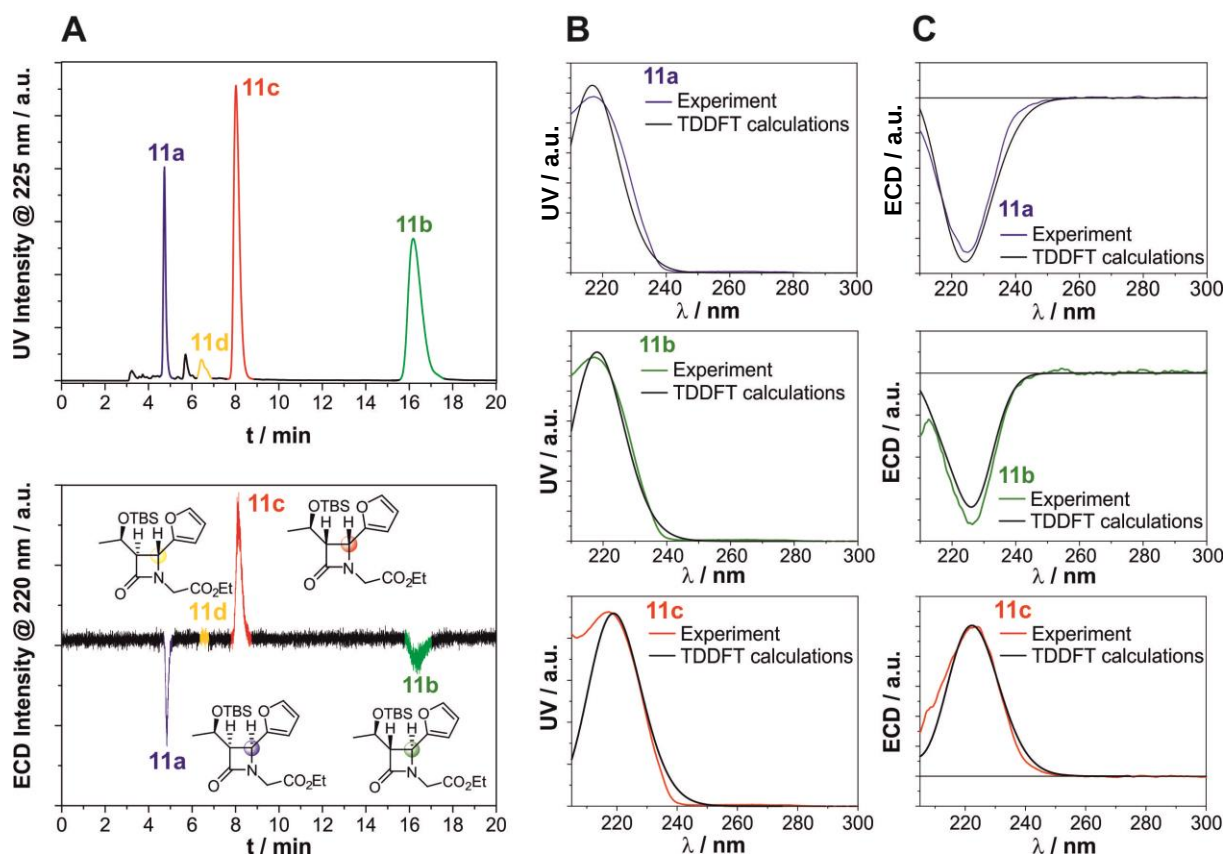


Figure S4. (A) UV (top) and ECD (bottom) chromatogram of **11abcd** mixture on Daicel Chiralcel® AS-H (250 $\times$ 4.6 mm, 5 μ m) column, eluent *i*-PrOH/hexane = 5/95, flow 1 mL/min, UV detection at 225 nm, ECD detection at 220 nm; (B) and (C) *on-line* UV and ECD spectra compared to those computed at CAM-B3LYP/def2-TZVP level of theory. Note that using $c \sim 1$ mg/ml it was not possible to record a full ECD spectrum.

4. Crystallographic data

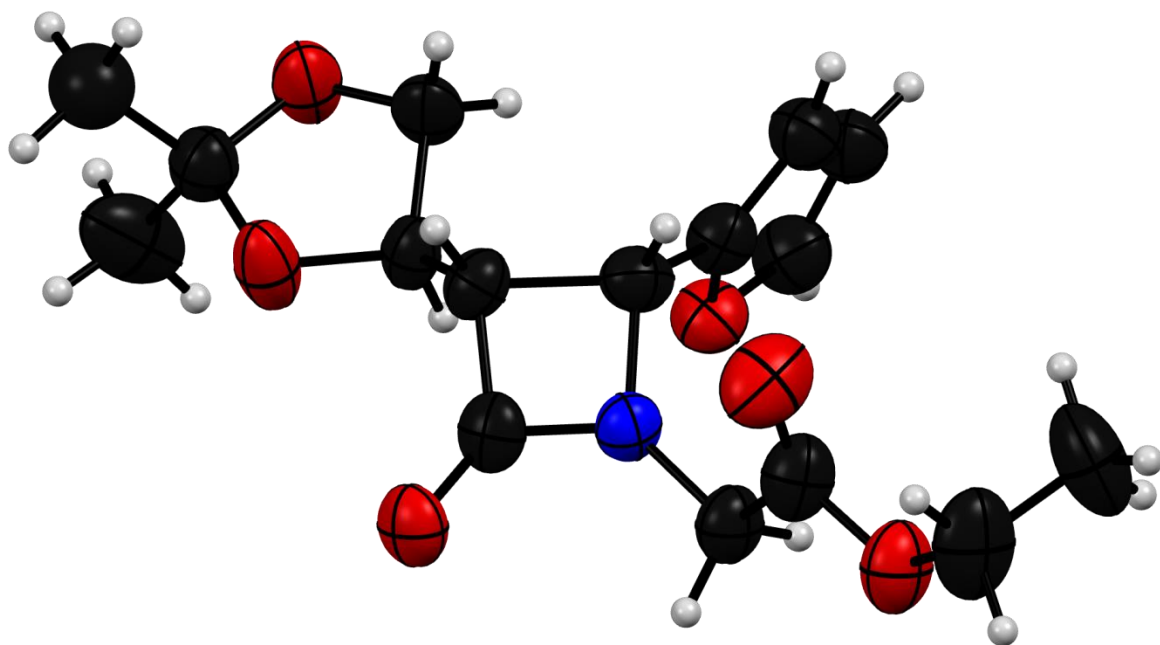


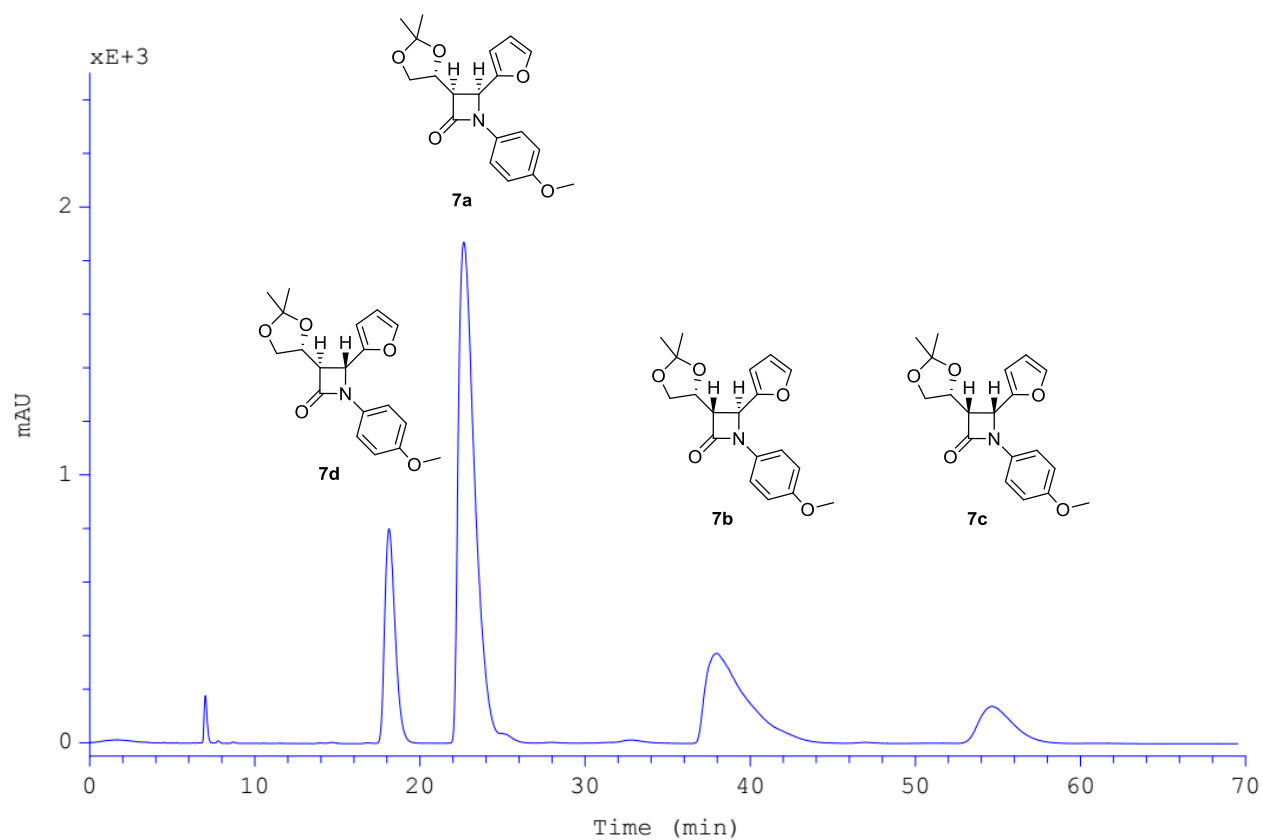
Figure S5. ORTEP plot of **8c**, represented by thermal ellipsoids shown at the 35% probability level.

Colorless crystals suitable for X-ray structural analysis were obtained by slow evaporation of heptane–ether solution of **8c**. Crystal data were obtained on a Bruker APEX II CCD detector employing graphite monochromated Cu-K α radiation ($\lambda=1.54178$ Å) at 296(2) K and operating in the ϕ - ω scan mode. The structure was solved by direct methods SHELXS-2014^[3] and refined with full-matrix least-squares calculations on F^2 using SHELX-2014.^[3] All non-hydrogen atoms were refined anisotropically. The hydrogen atom positions were geometrically idealized and allowed to ride on their parent atoms. Crystallographic data for **8c** have been deposited at the Cambridge Crystallographic Data Centre (deposition no. **CCDC 1878740**). Copies of these data can be obtained free of charge via www.ccdc.cam.ac.uk/conts/retrieving.html or from the Cambridge Crystallographic Data Centre, 12, Union Road, Cambridge CB21EZ, UK [fax: (+44) 1223-336-033; or email: deposit@ccdc.cam.ac.uk].

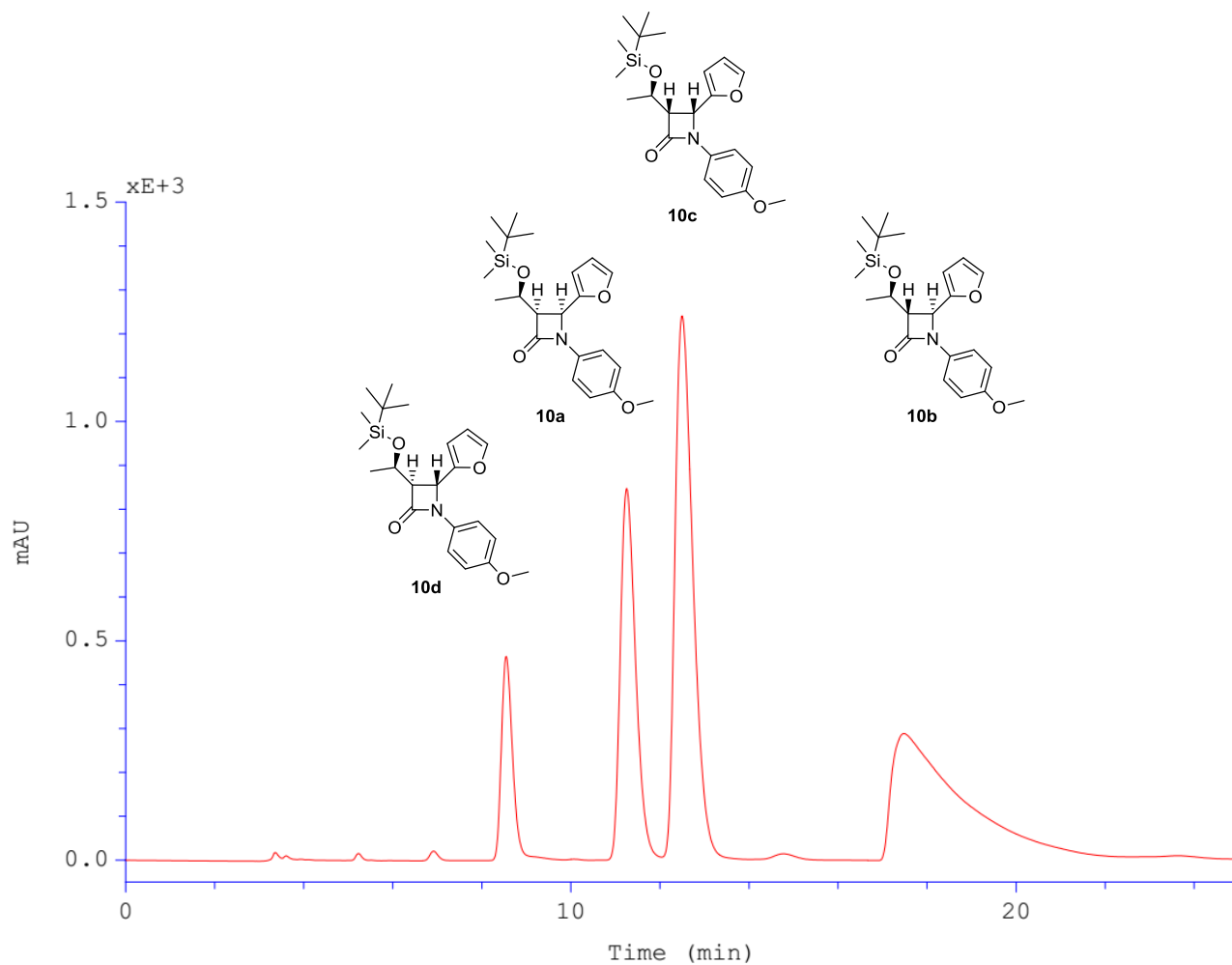
Table S5. Summary of the crystal parameters and refinement metrics for **8c**.

Chemical formula	C ₁₆ H ₂₁ NO ₆	θ range [°]	4.88 to 66.58
Formula weight	323.34 g/mol	Index ranges	-5<= <i>h</i> <=6, -20<= <i>k</i> <=18, -9<= <i>l</i> <=9
CCDC number	1878740	Reflections collected	5201
Crystal appearance	colorless block	Reflections unique	1983 [R(int) = 0.0465]
Crystal size [mm]	0.215 x 0.350 x 0.440	Completeness	78.4%
Crystal system	monoclinic	Absorption correction	numerical
Space group	P 1 2 ₁ 1	Max and min transmission	0.8430 and 0.7130
<i>a</i> [Å]	5.4441(3)	Solution method	direct methods
<i>b</i> [Å]	18.1287(8)	Refinement method	Full-matrix least-squares on F ²
<i>c</i> [Å]	8.5243(4)	H atom treatment	geometrically idealized
α [°]	90	Data/restraints/parameters	1983 / 1 / 214
β [°]	95.698(3)	Goodness-of-fit on F²	0.873
γ [°]	90	Final R indices [I>2σ(I)]⁴	1551 data; R1 = 0.0645, wR2 = 0.1458
<i>V</i> [Å³]	837.14(7)	R indices (all data)	R1 = 0.0942, wR2 = 0.1886
<i>Z</i>	2	Absolute structure parameter	-0.5(9)
<i>T</i> [K]	296(2)	Largest diff peak and hole [eÅ⁻³]	0.252 and -0.334
<i>D</i>_{calc.} [gcm⁻³]	1.283		
μ [mm⁻¹]	0.824		
F(000)	344		

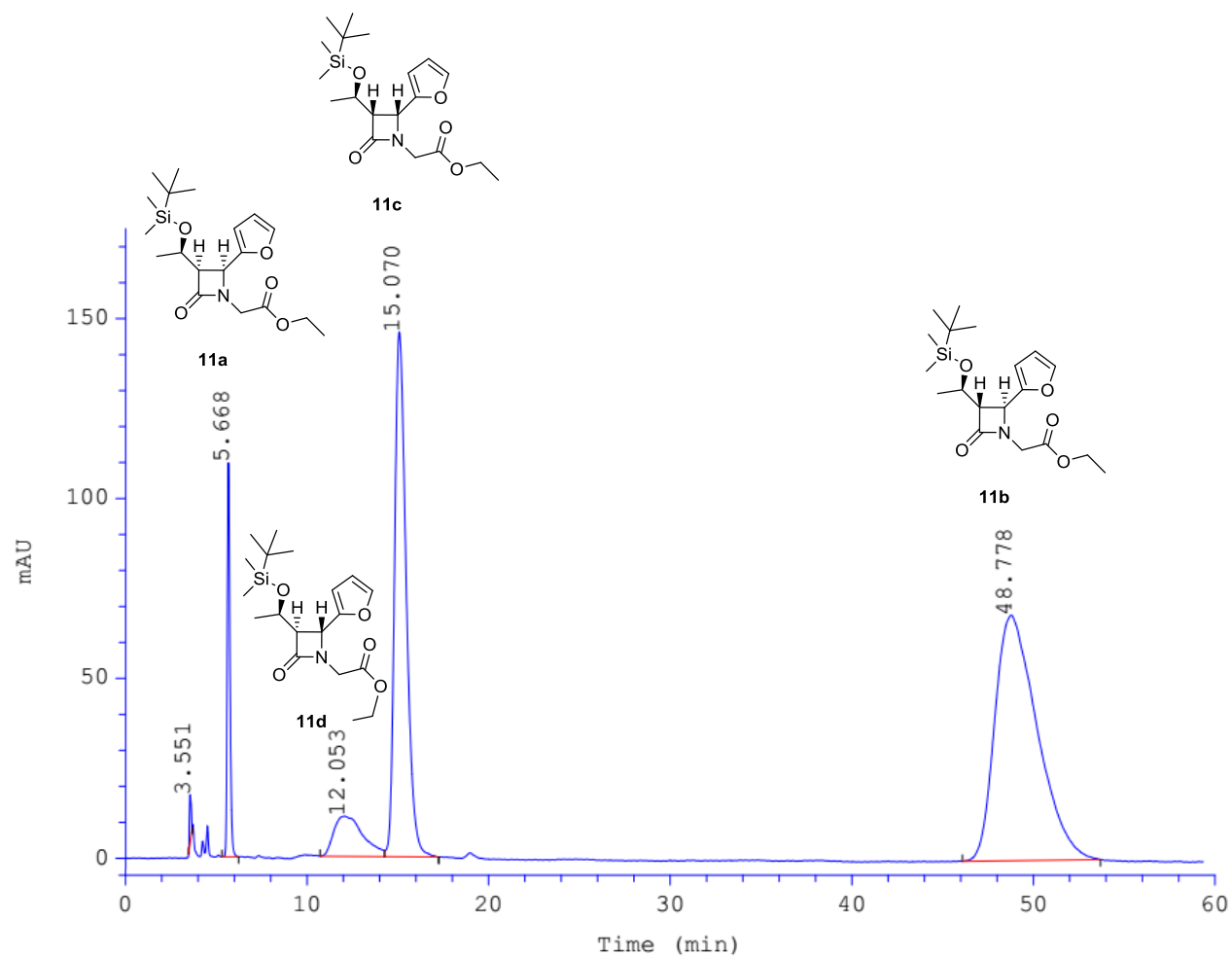
5. HPLC analyses of reference samples



conditions	Daicel Chiralcel® OD-H, <i>i</i> -PrOH/Hexane 5/95, 1 mL/min, 254 nm			
product	7a	7b	7c	7d
t _R /min	22.6	38.0	54.6	18.1

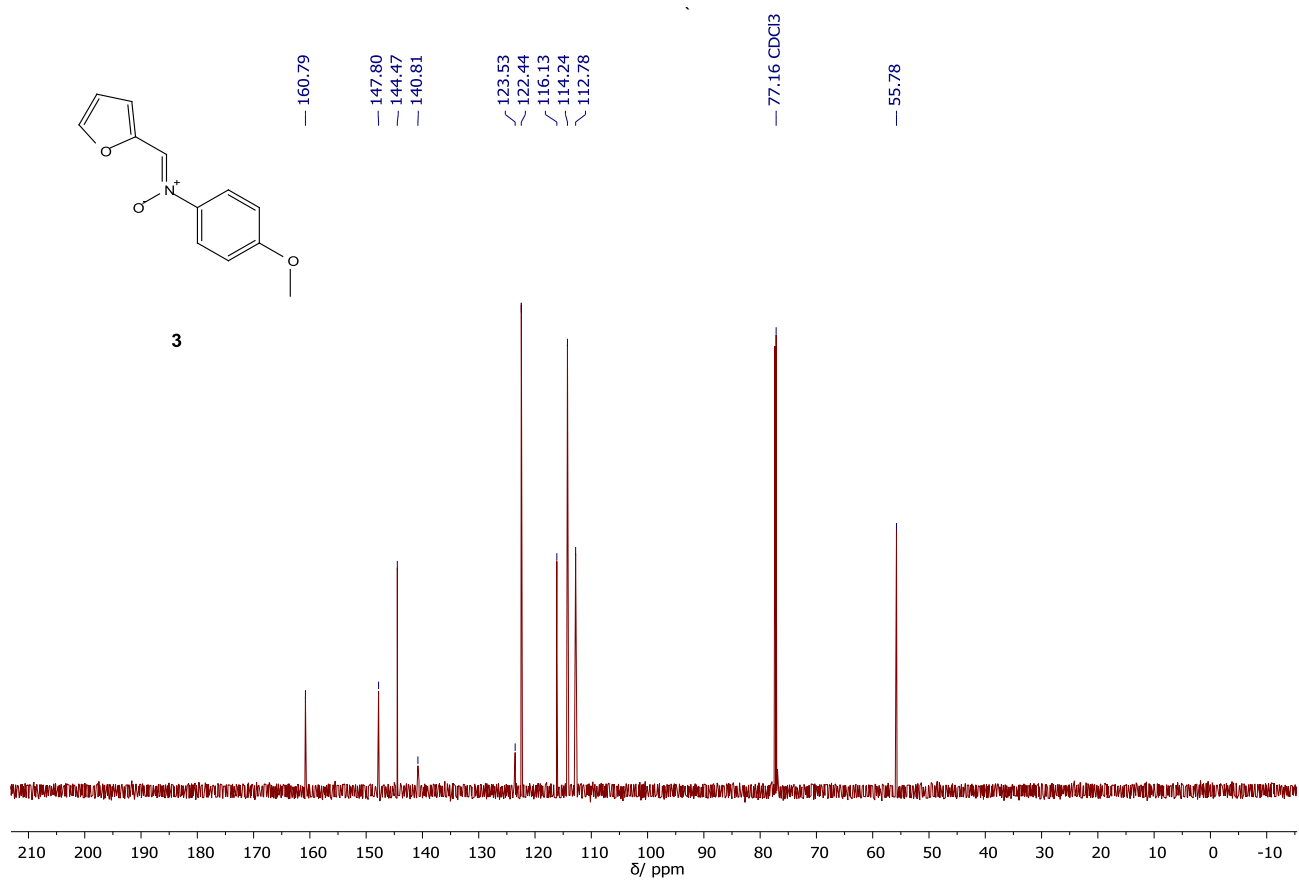
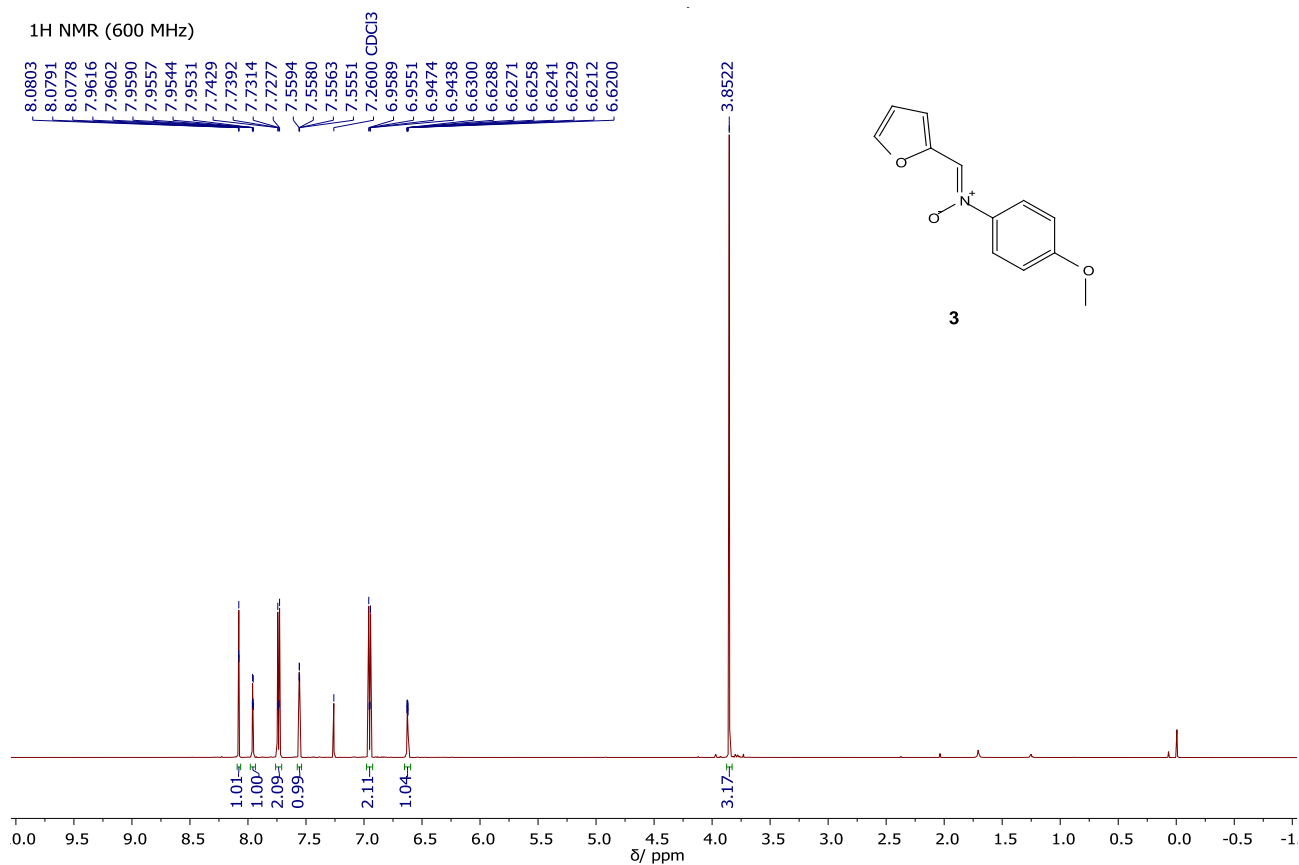


conditions	Daicel Chiralcel® OD-H, <i>i</i> -PrOH/Hexane 2/98, 1 mL/min, 254 nm			
product	10a	10b	10c	10d
t _R /min	11.5	17.7	12.6	8.3

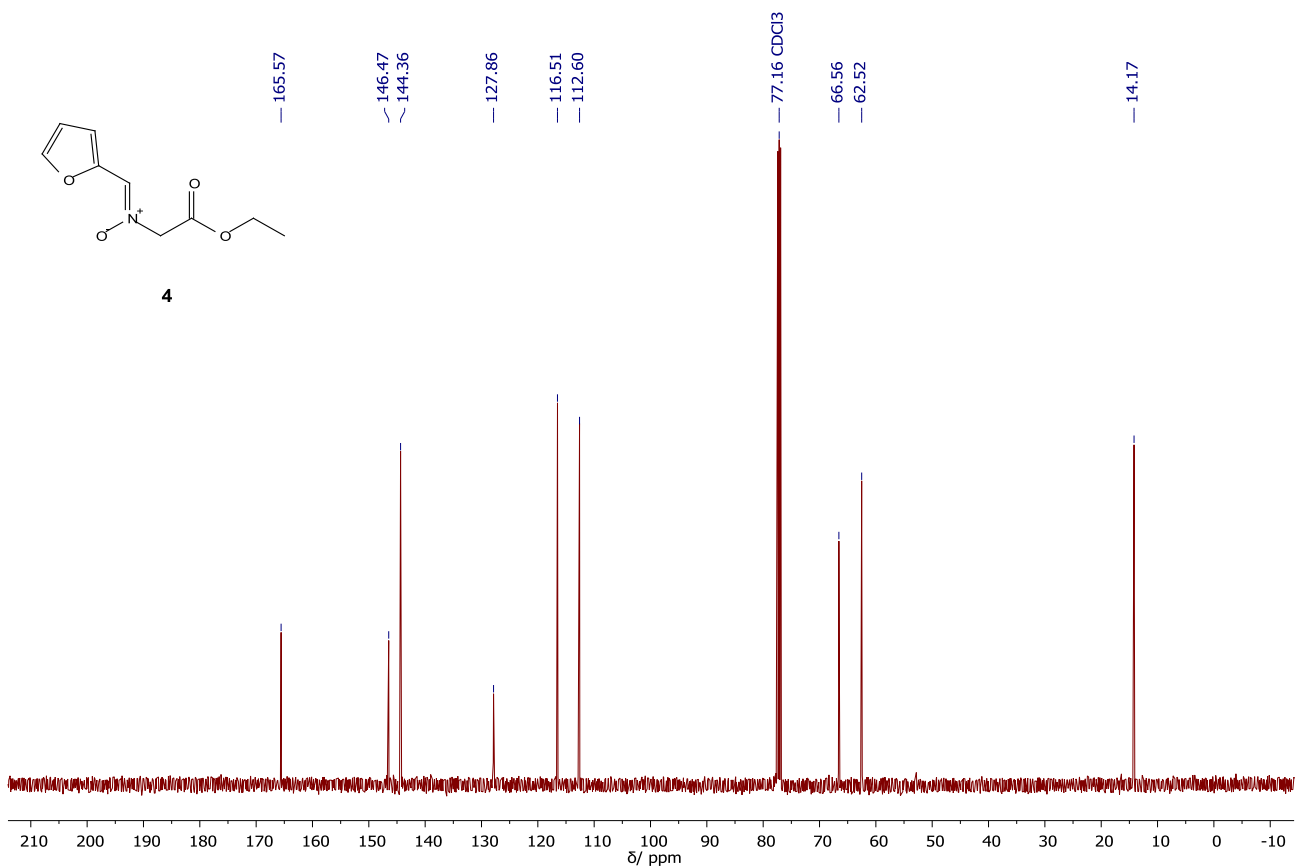
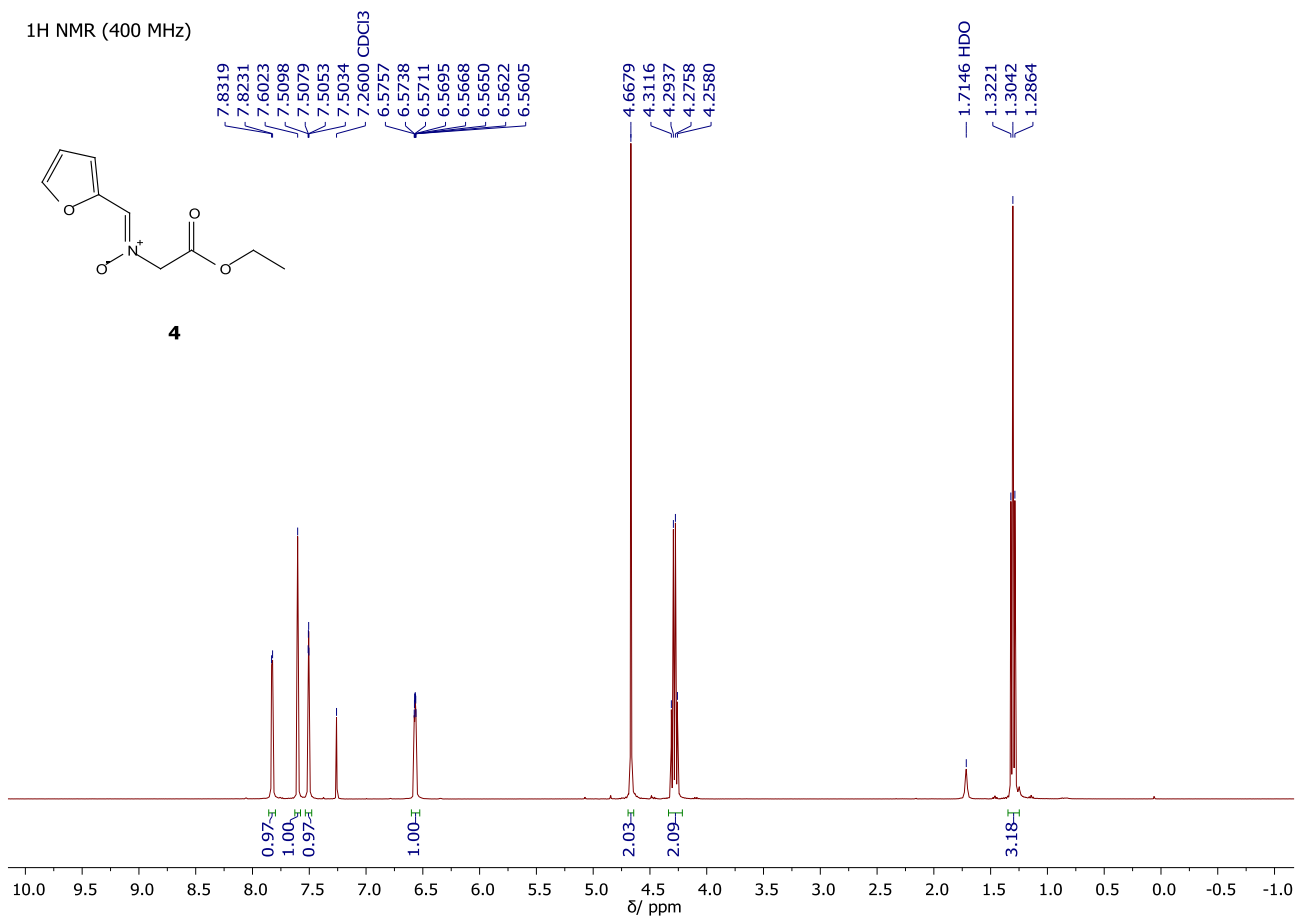


conditions	Daicel Chiralcel® AS-H, <i>i</i> -PrOH/Hexane 5/95, 1 mL/min, 225 nm			
product	11a	11b	11c	11d
t_R /min	5.7	48.8	15.1	12.1

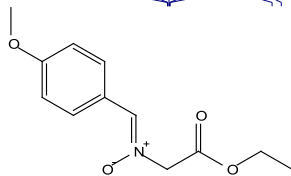
6. NMR spectra



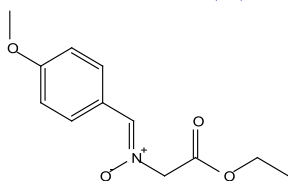
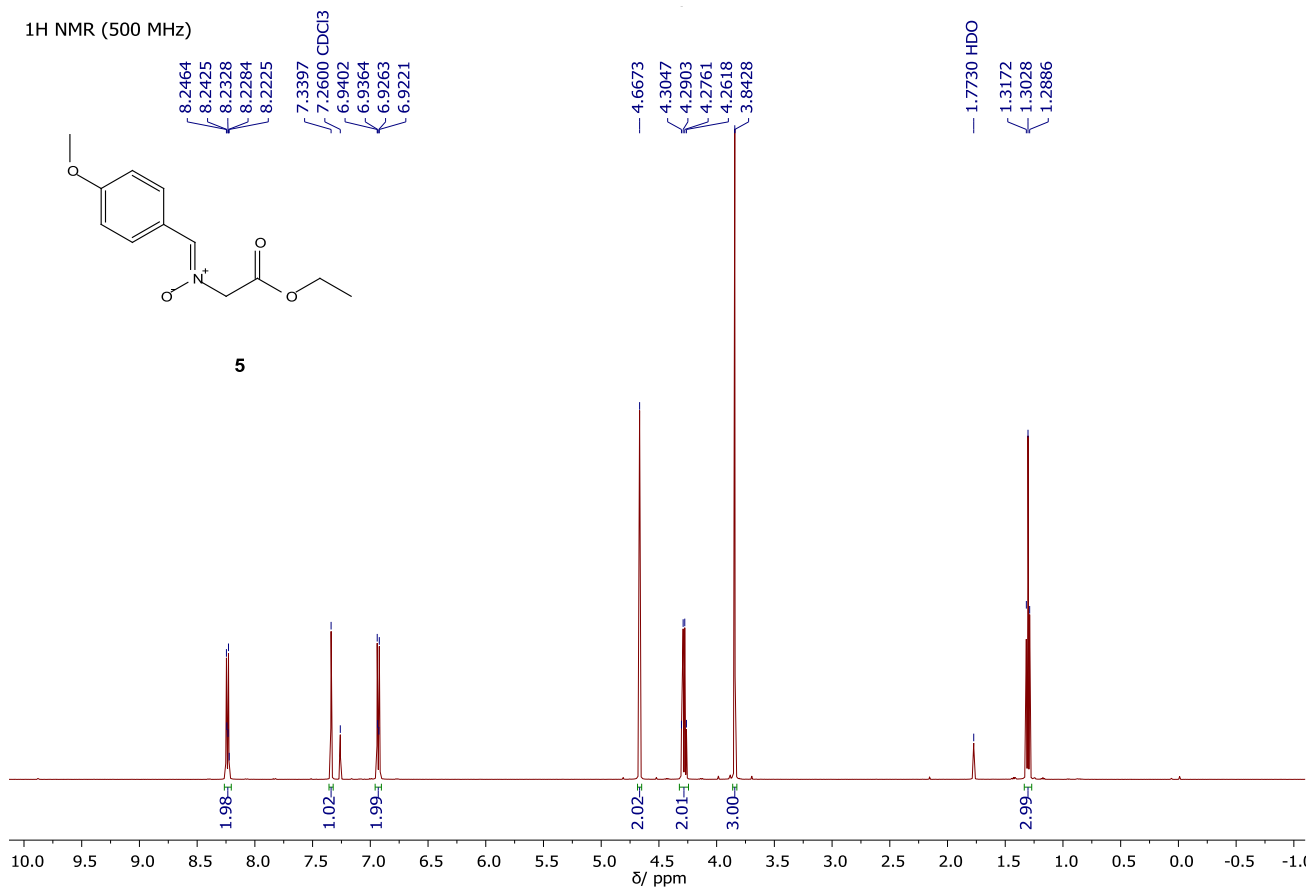
¹H NMR (400 MHz)



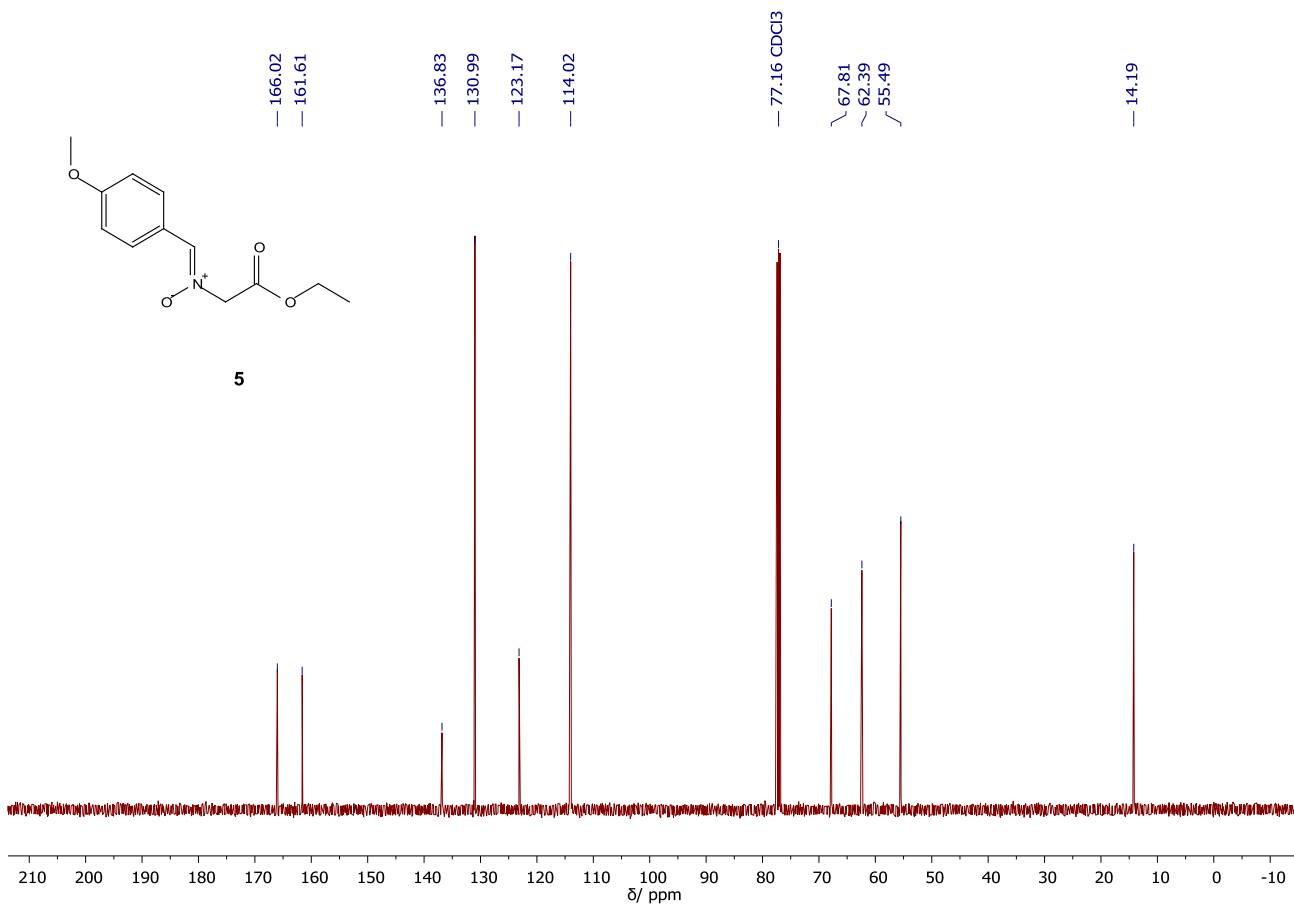
¹H NMR (500 MHz)

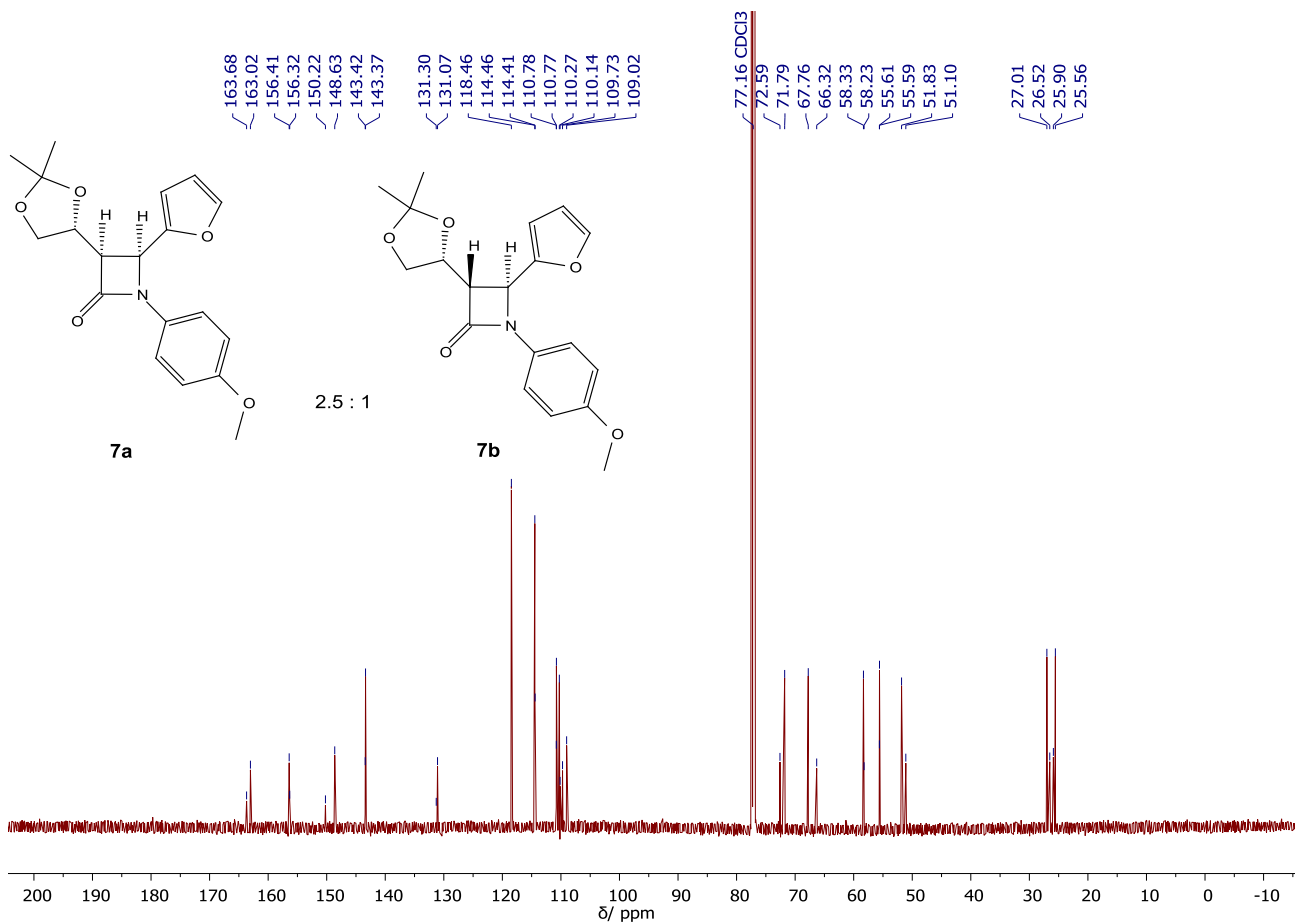
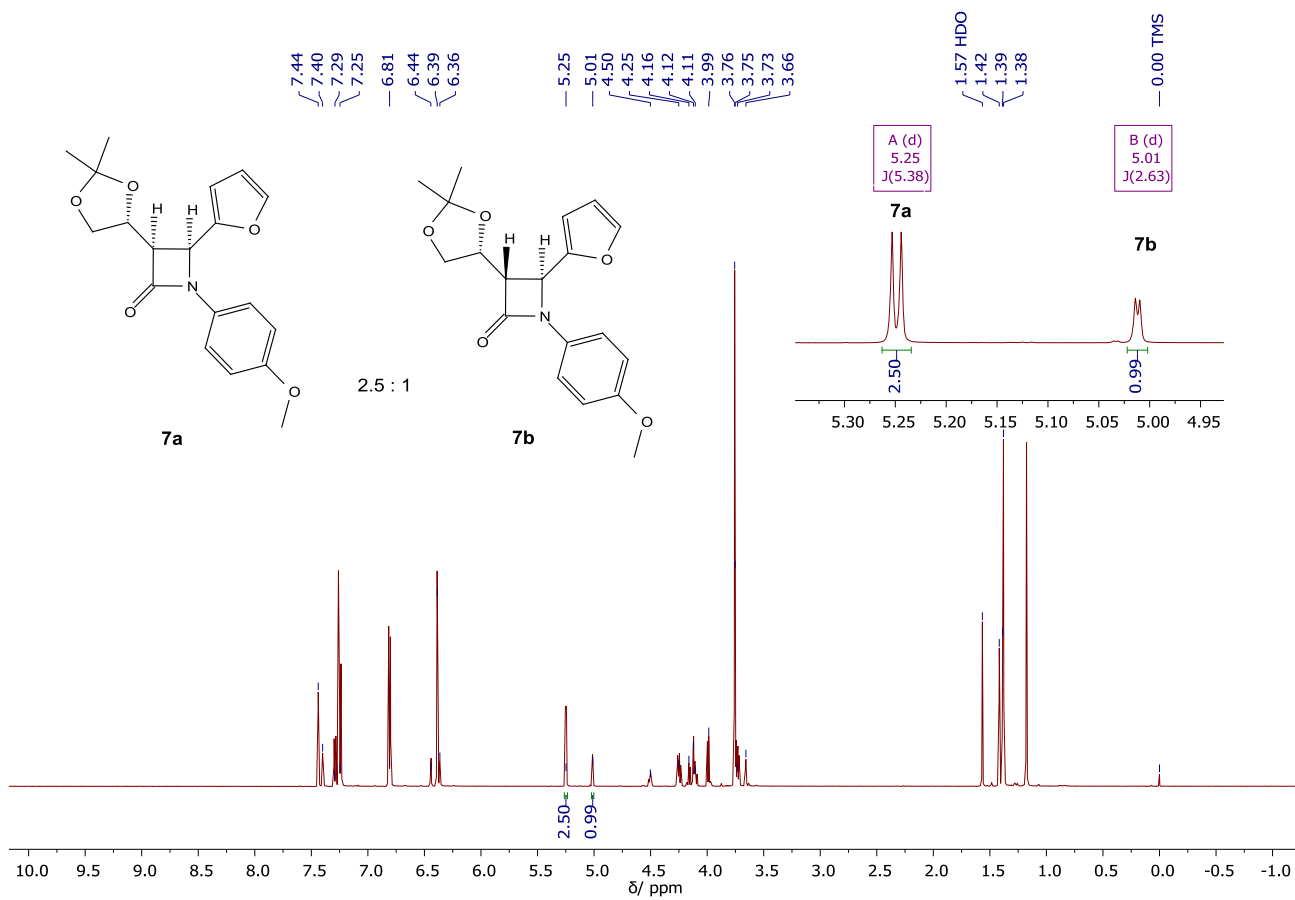


5

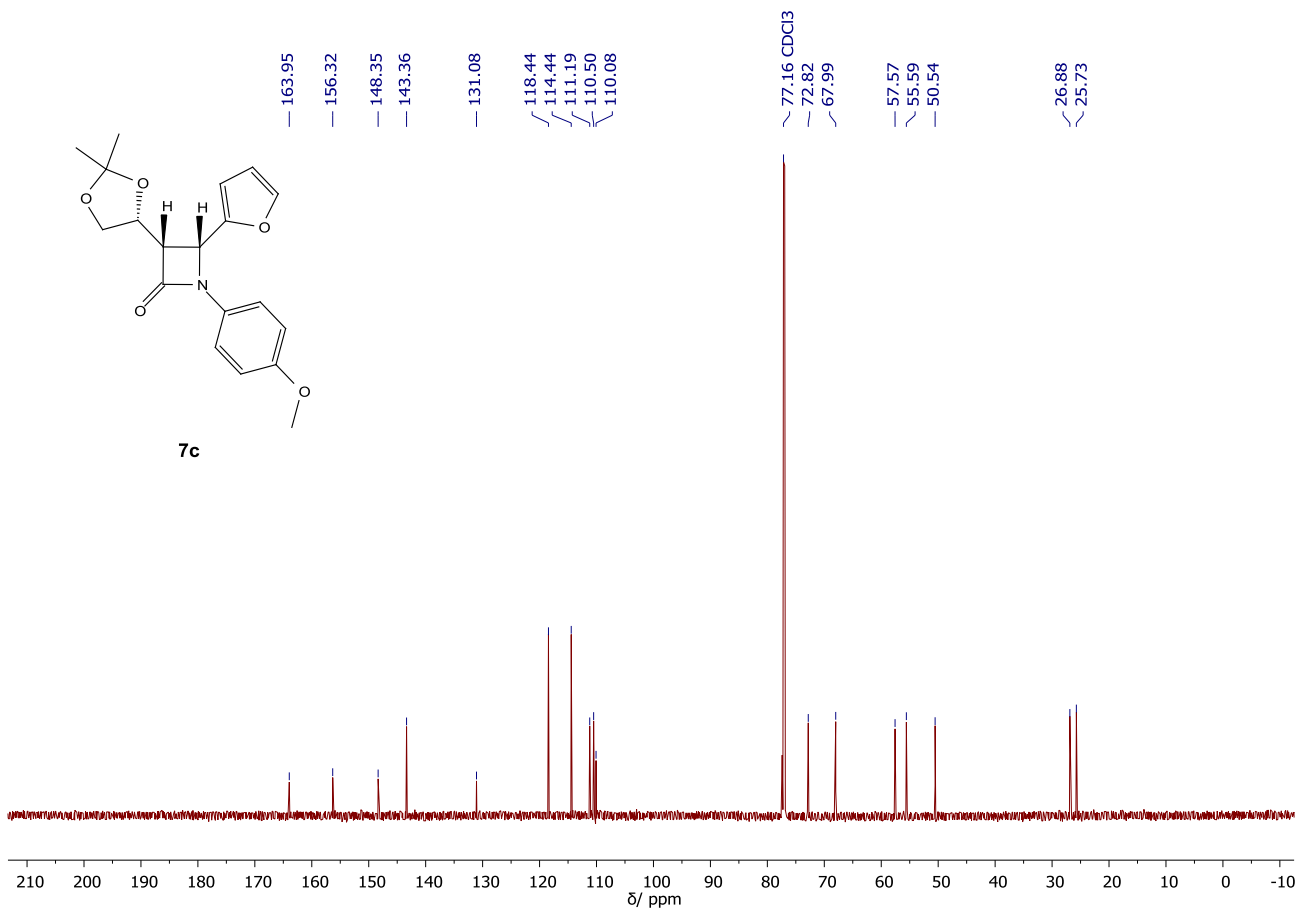
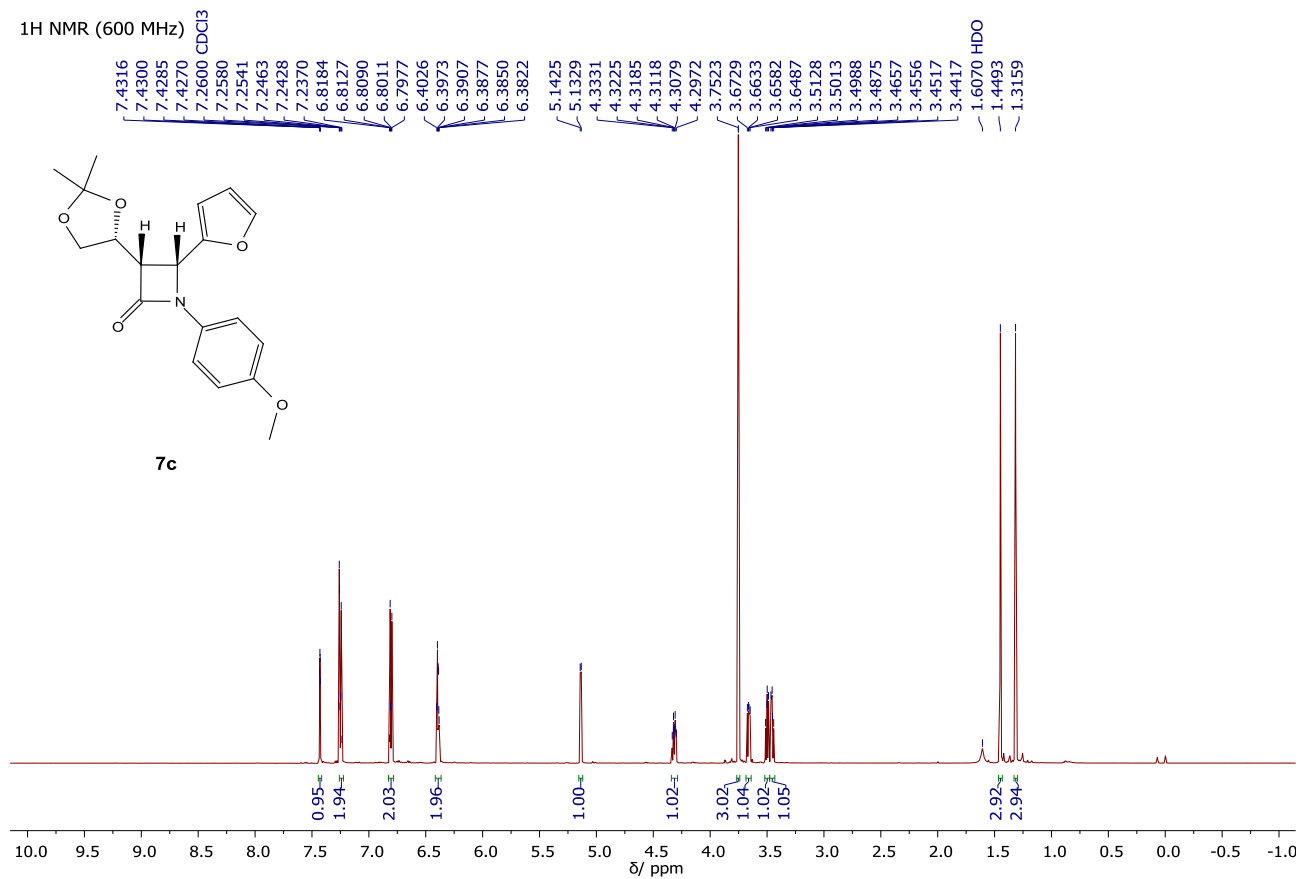


5

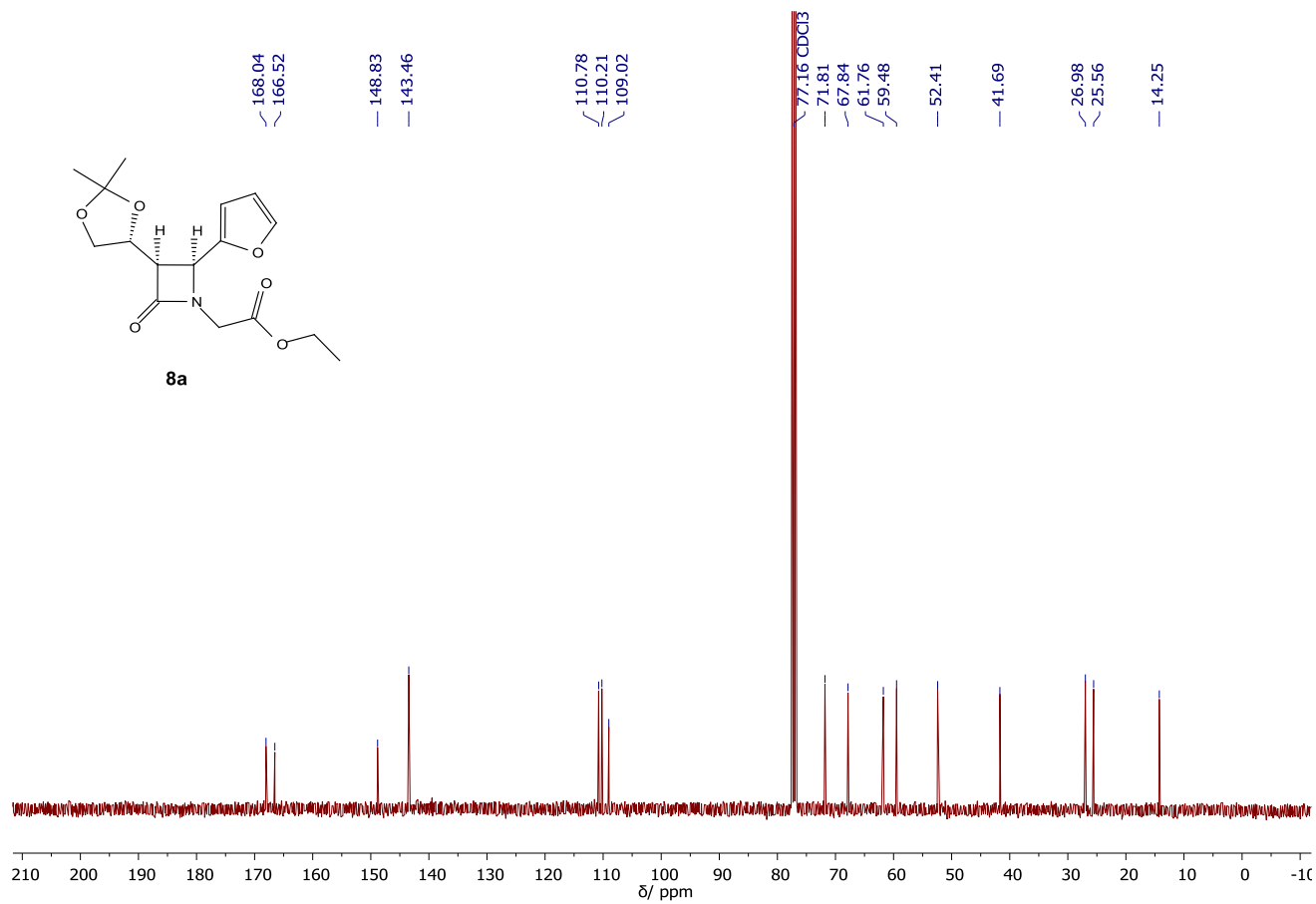
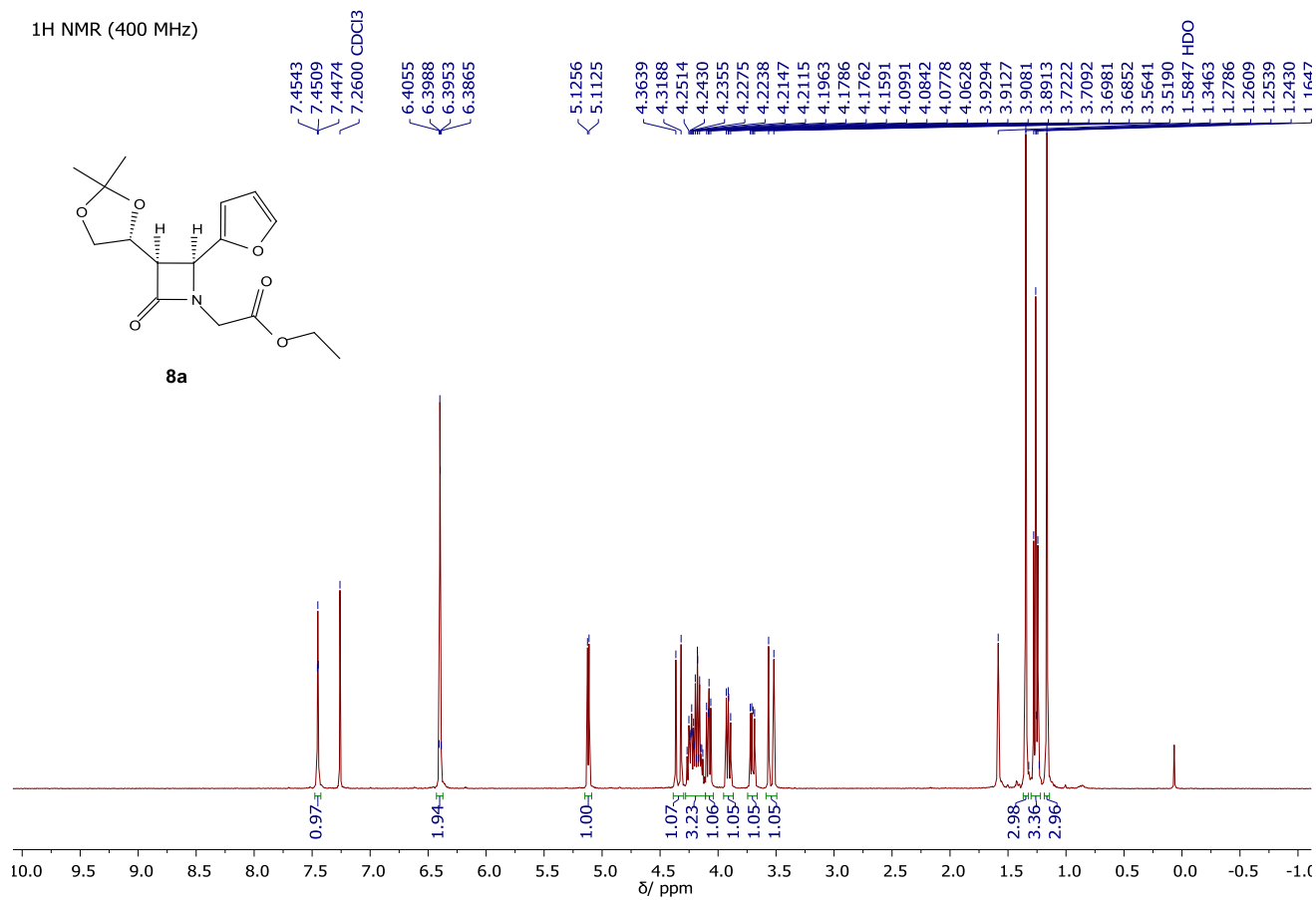


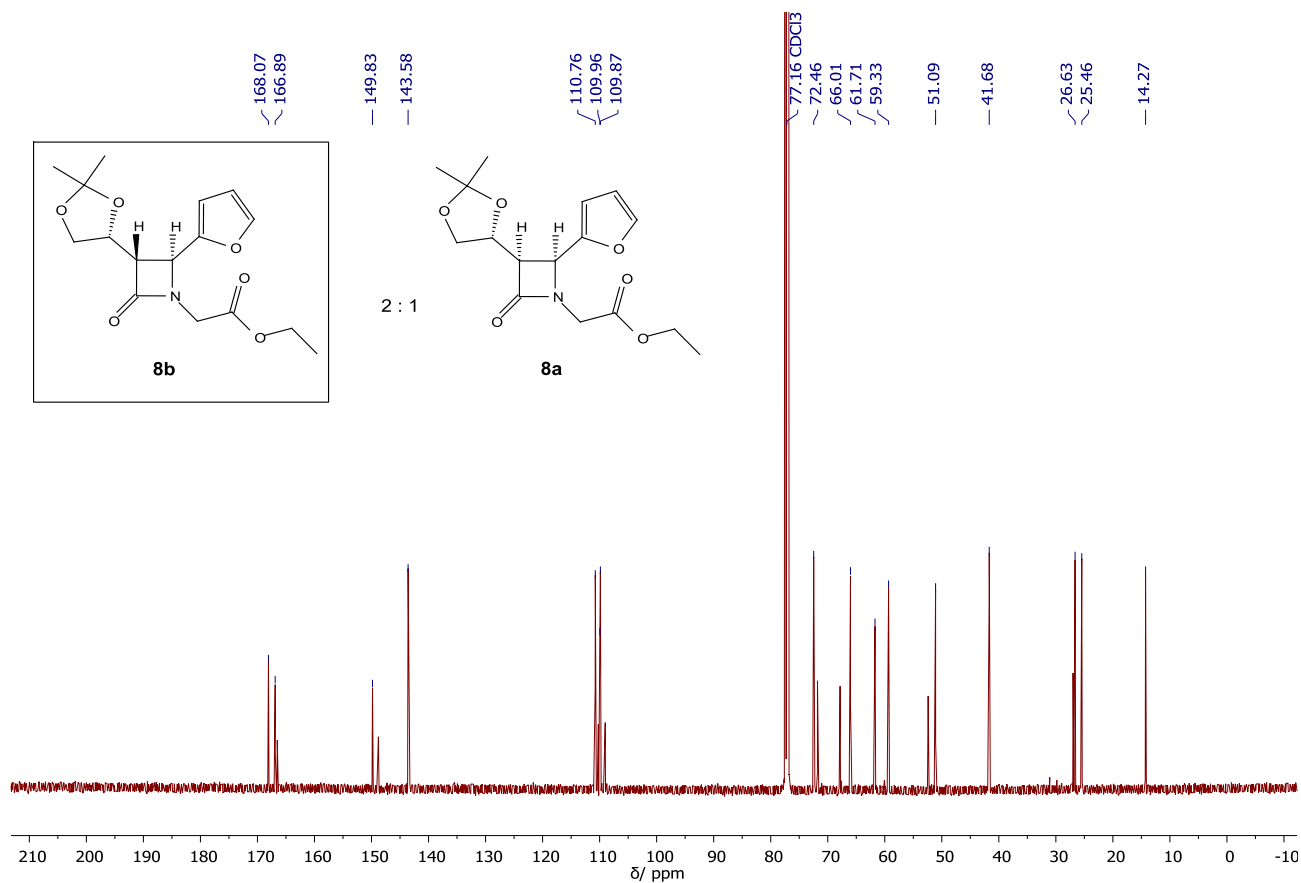
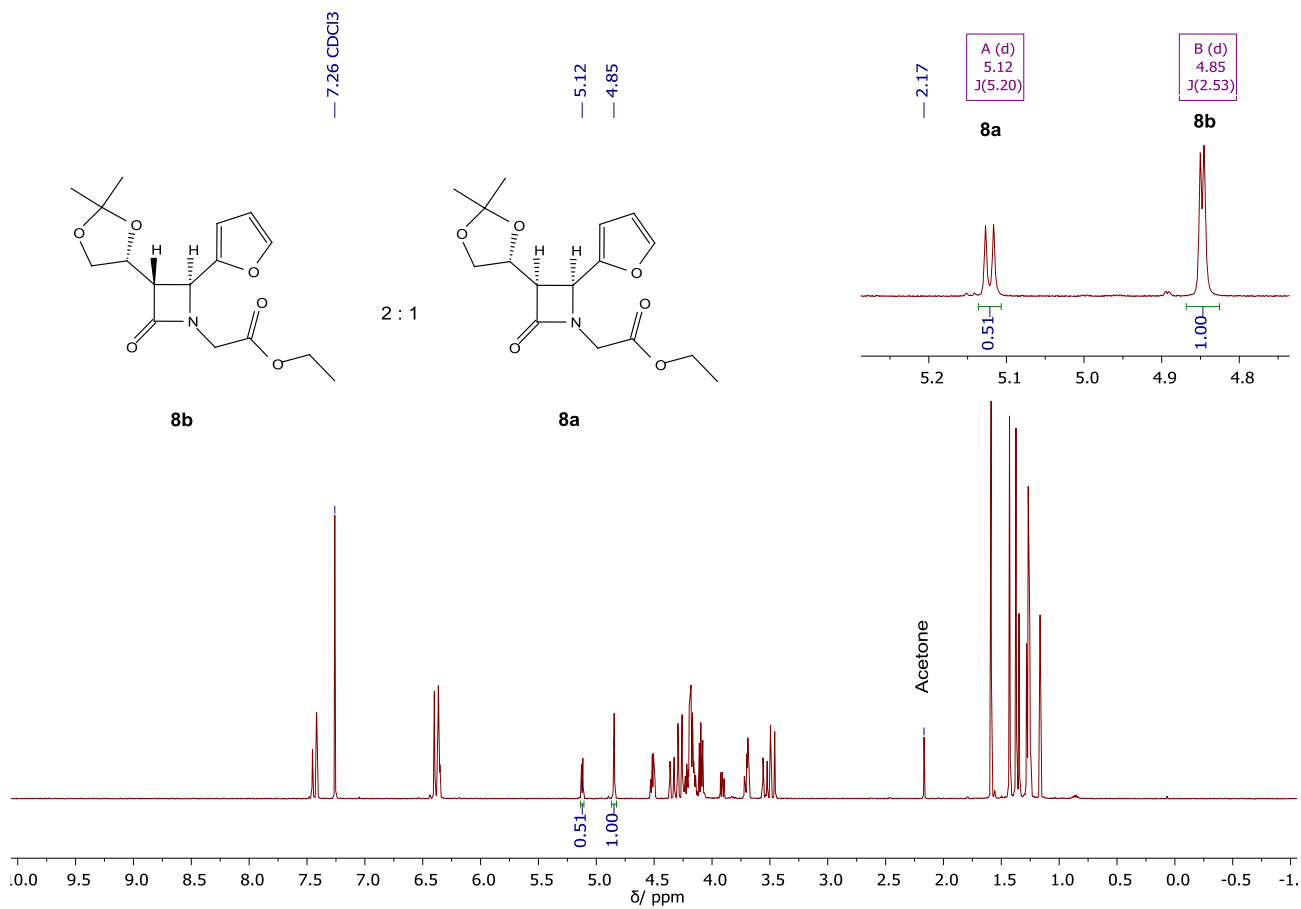


¹H NMR (600 MHz)

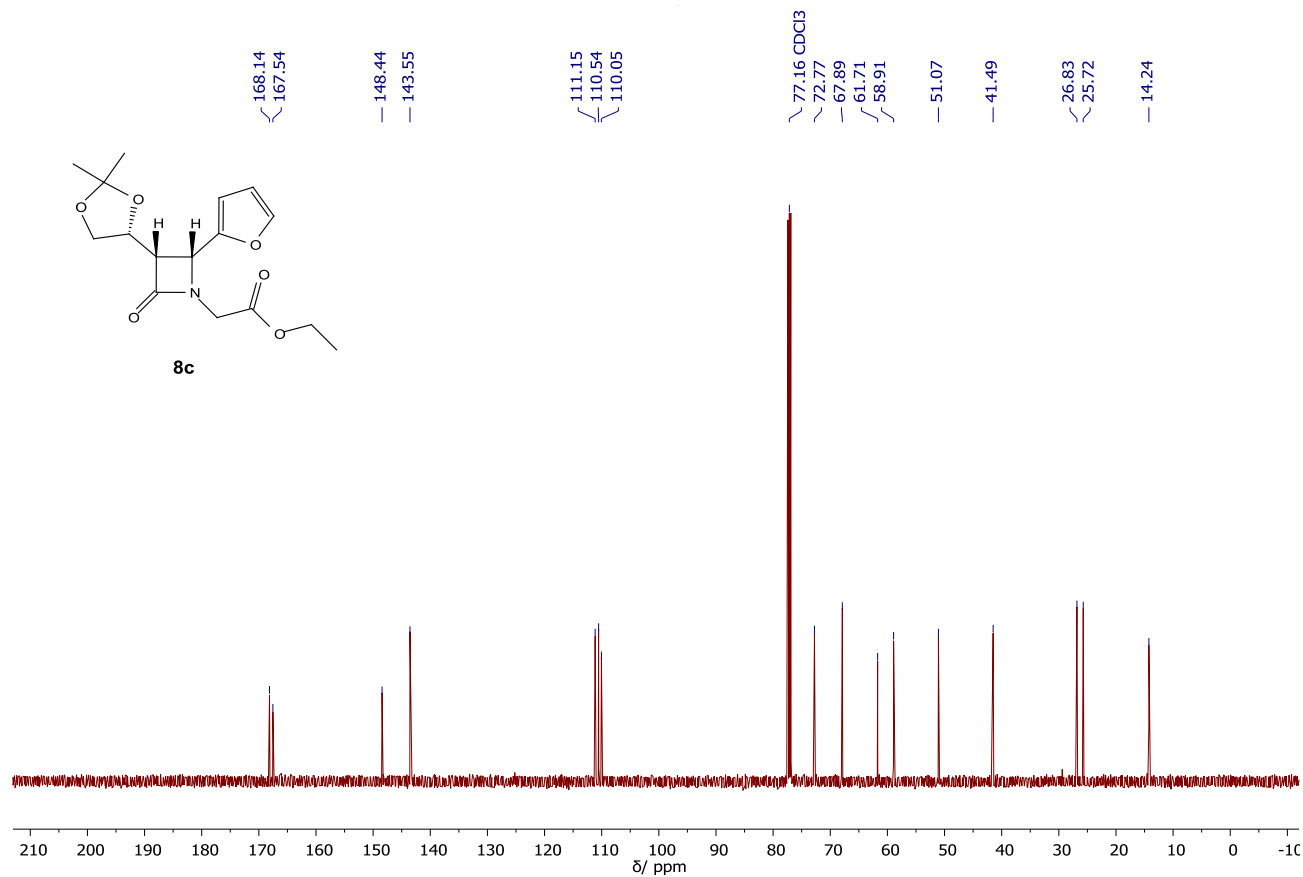
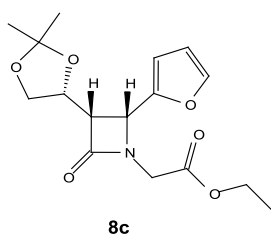
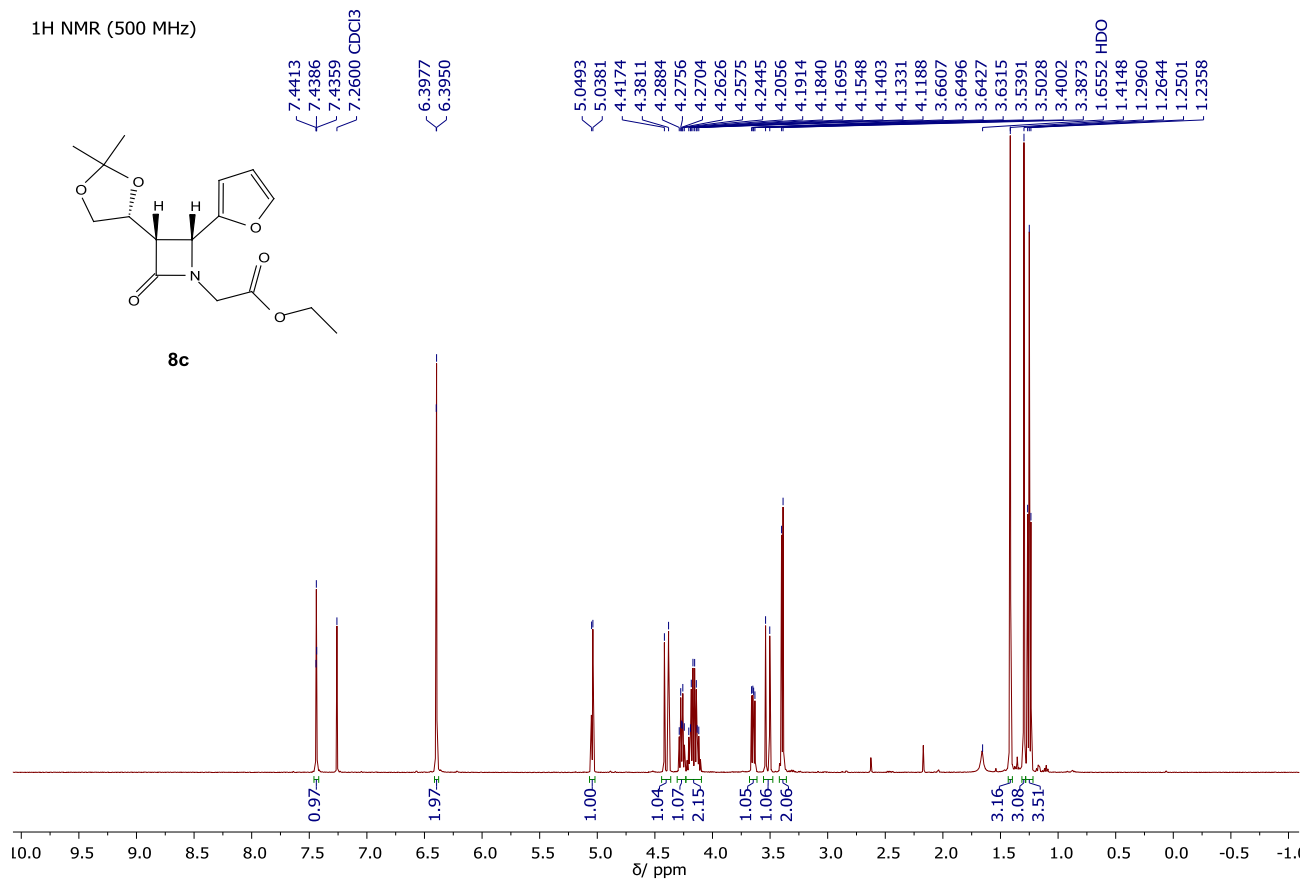
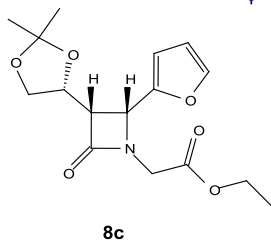


¹H NMR (400 MHz)

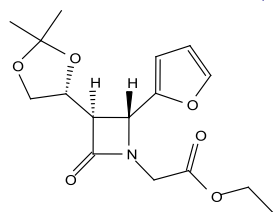




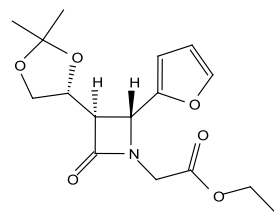
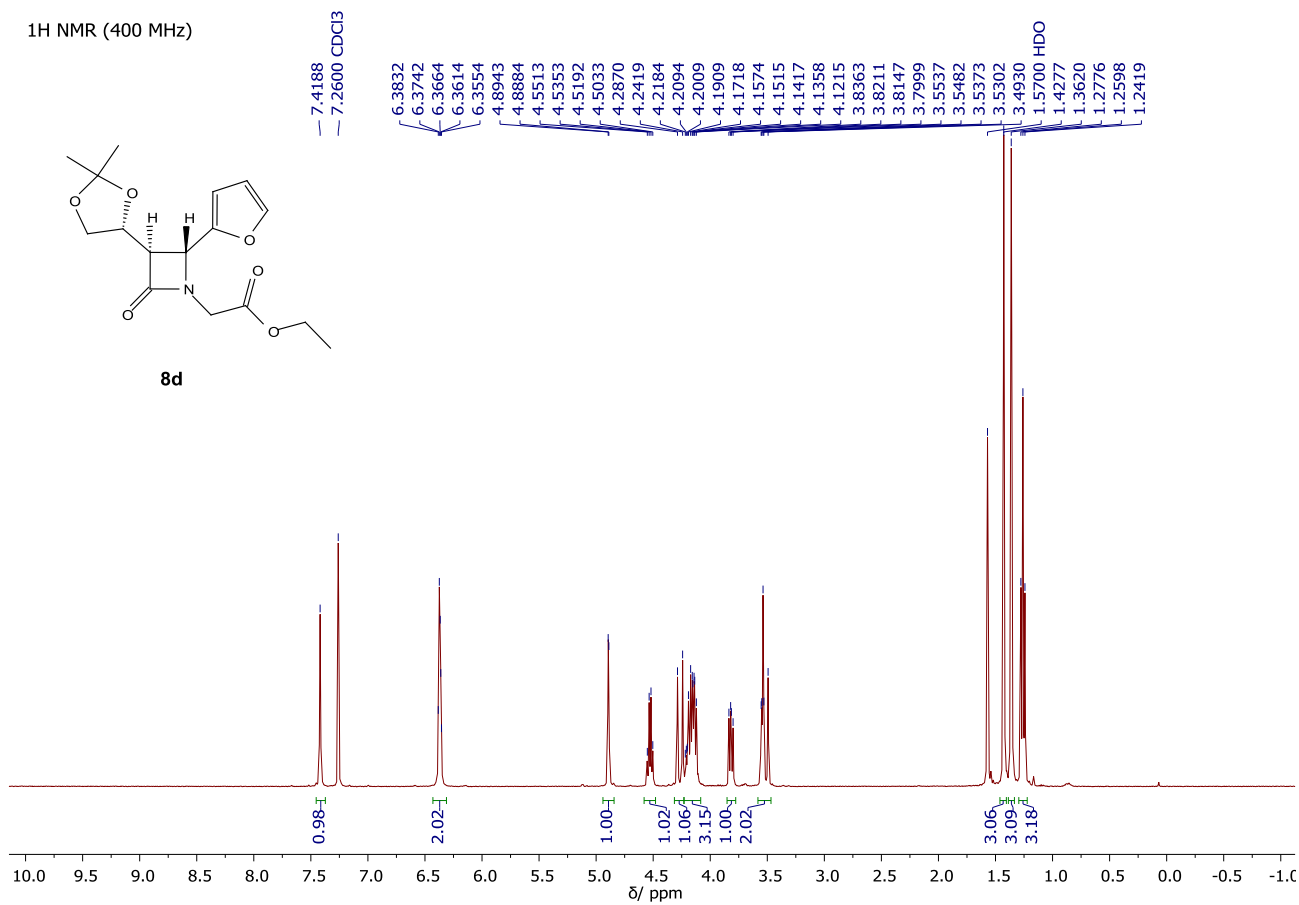
¹H NMR (500 MHz)



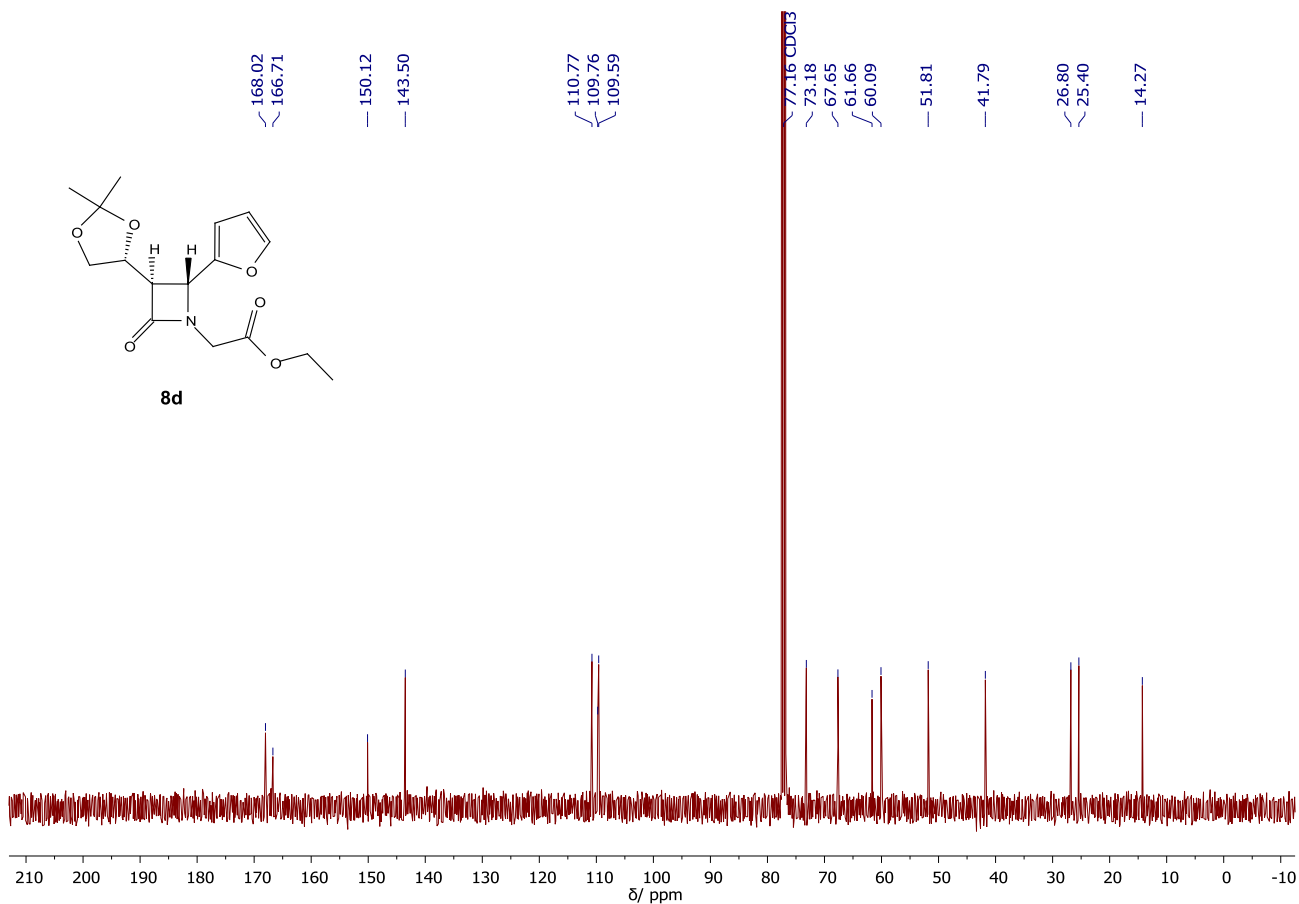
¹H NMR (400 MHz)

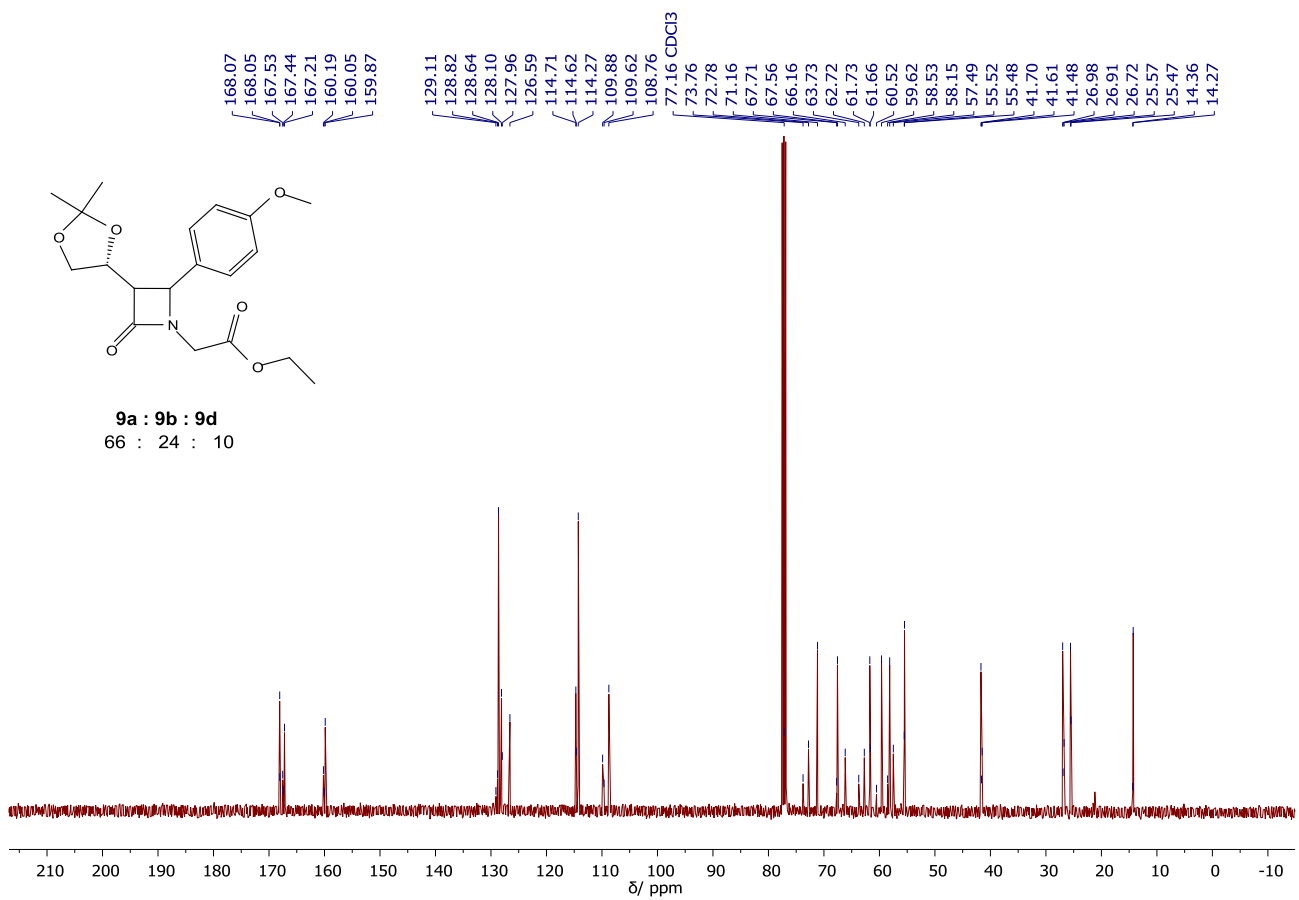
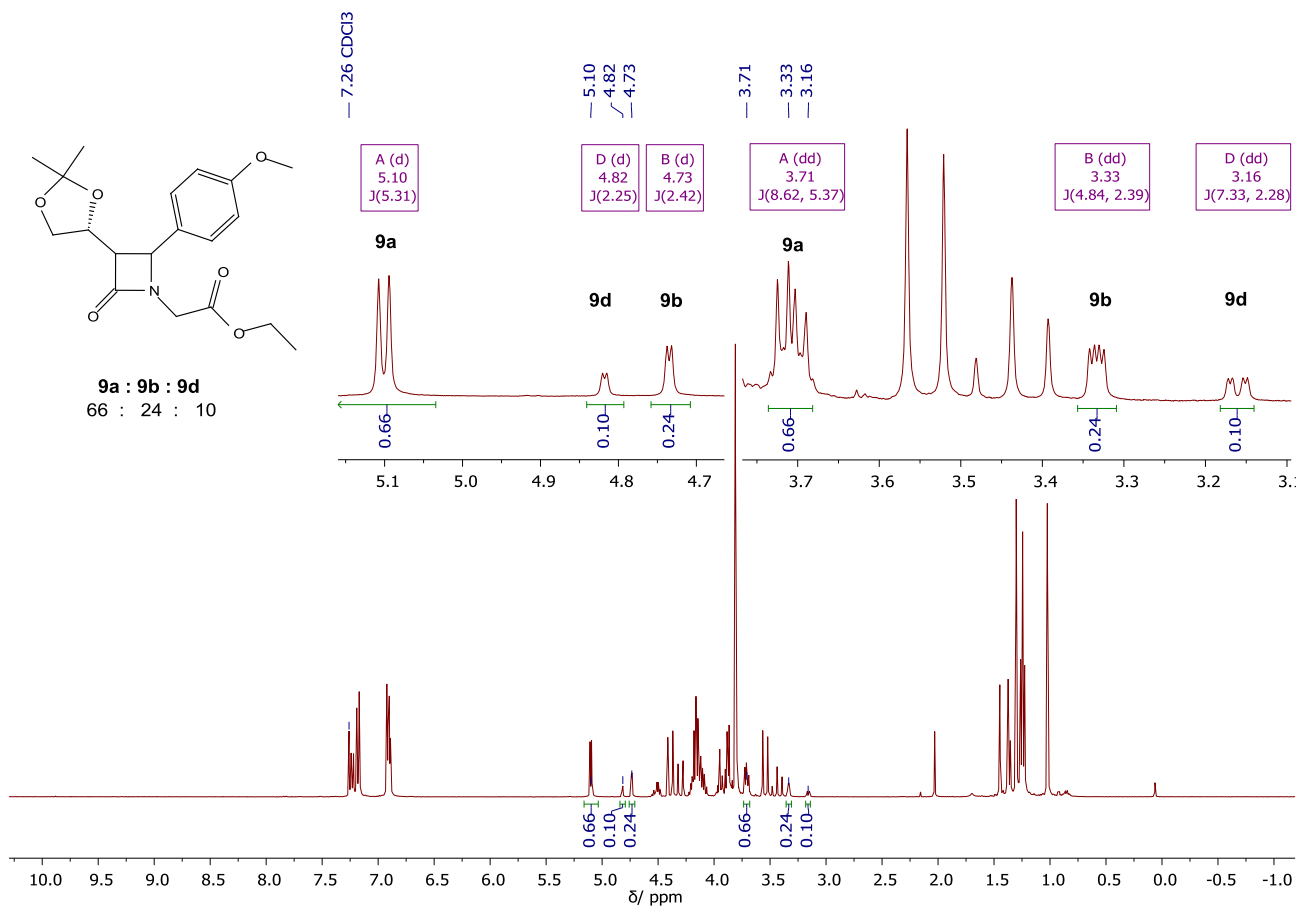


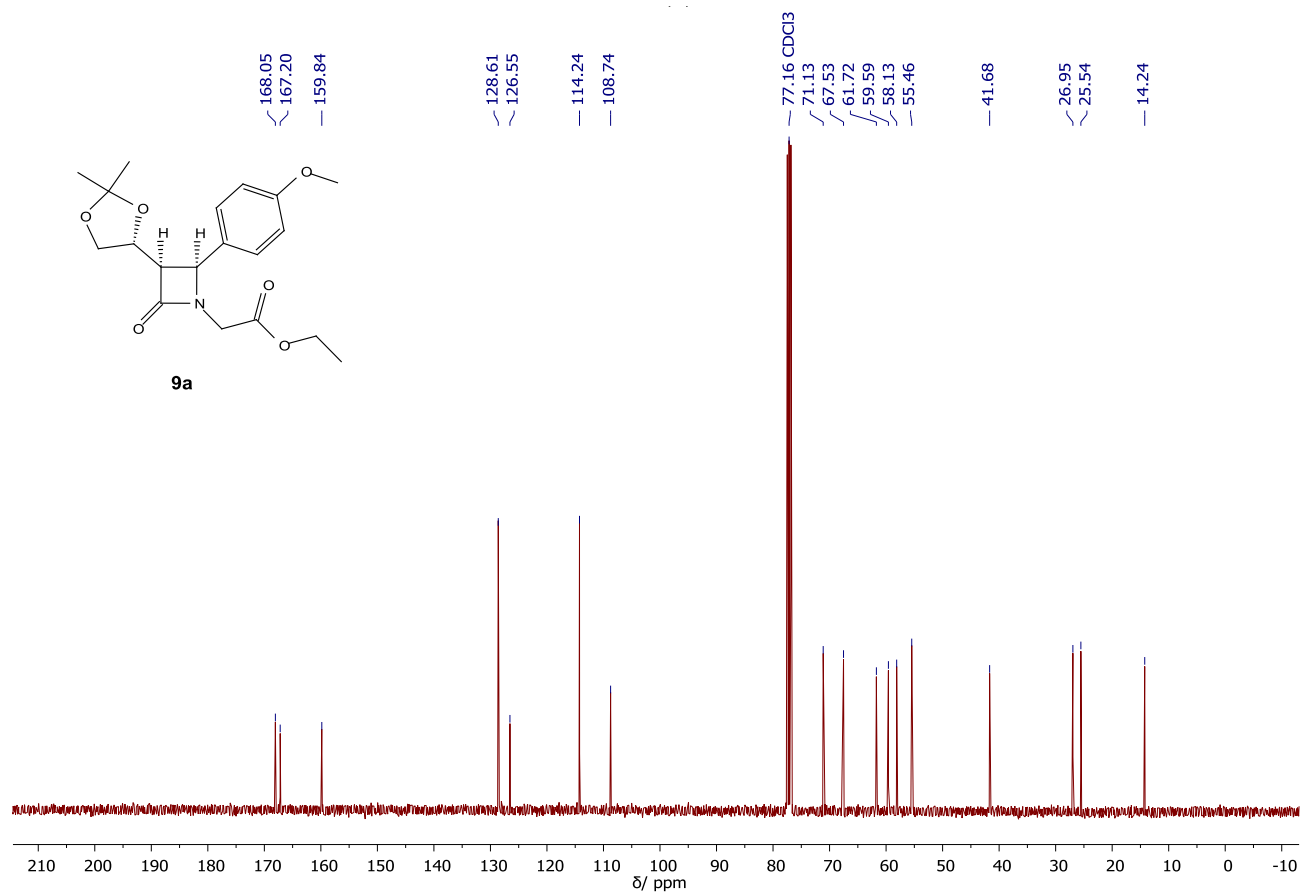
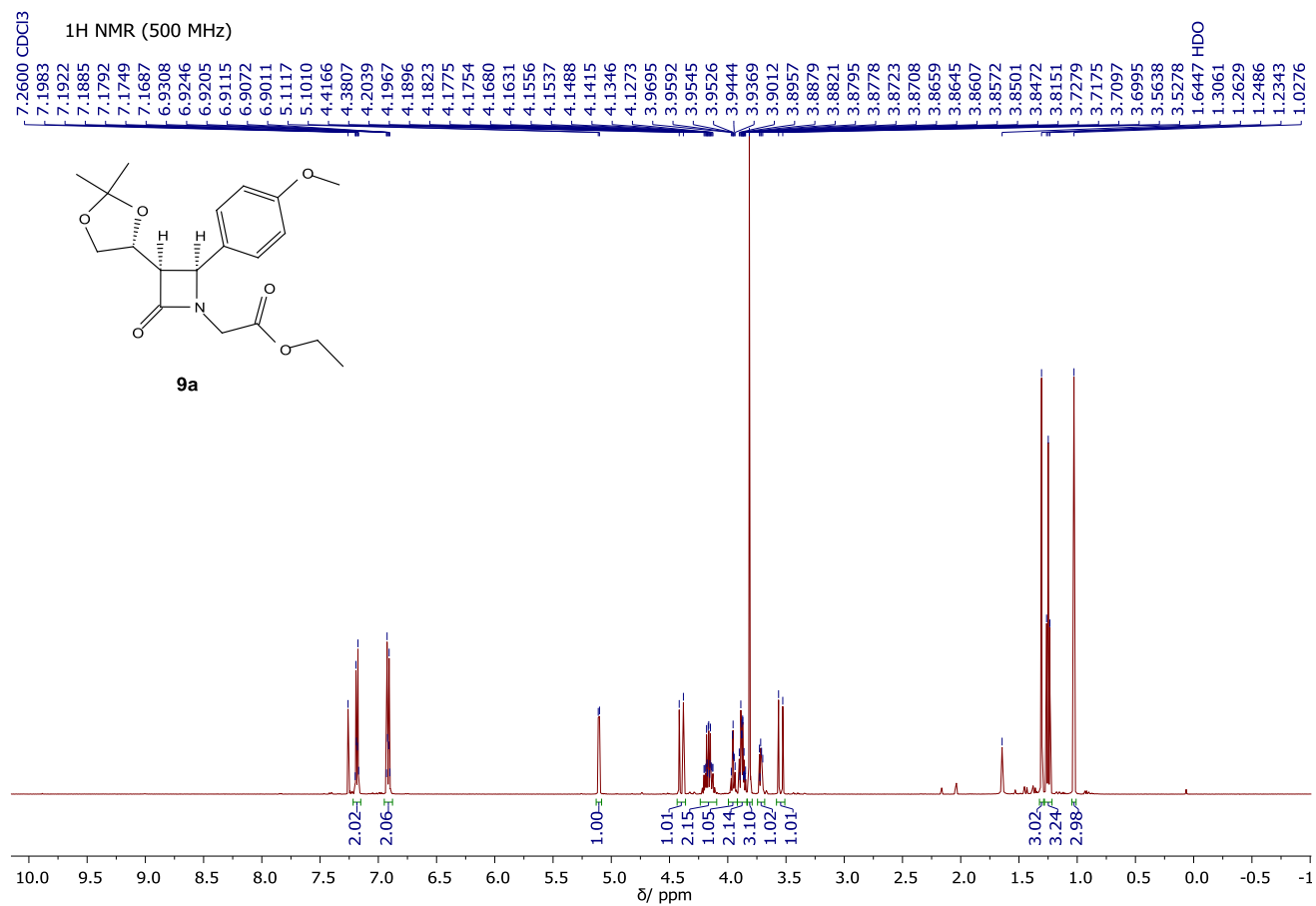
8d



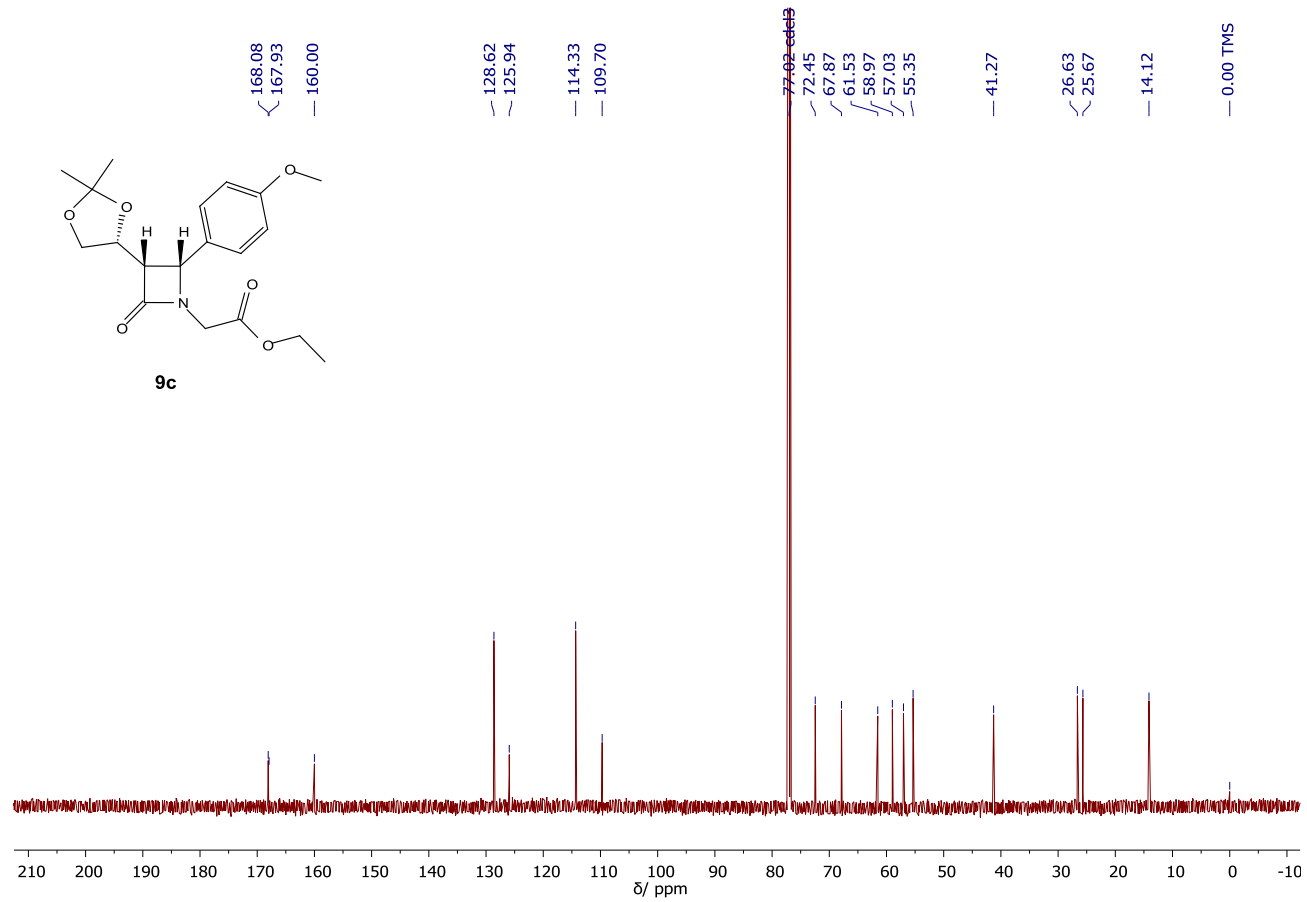
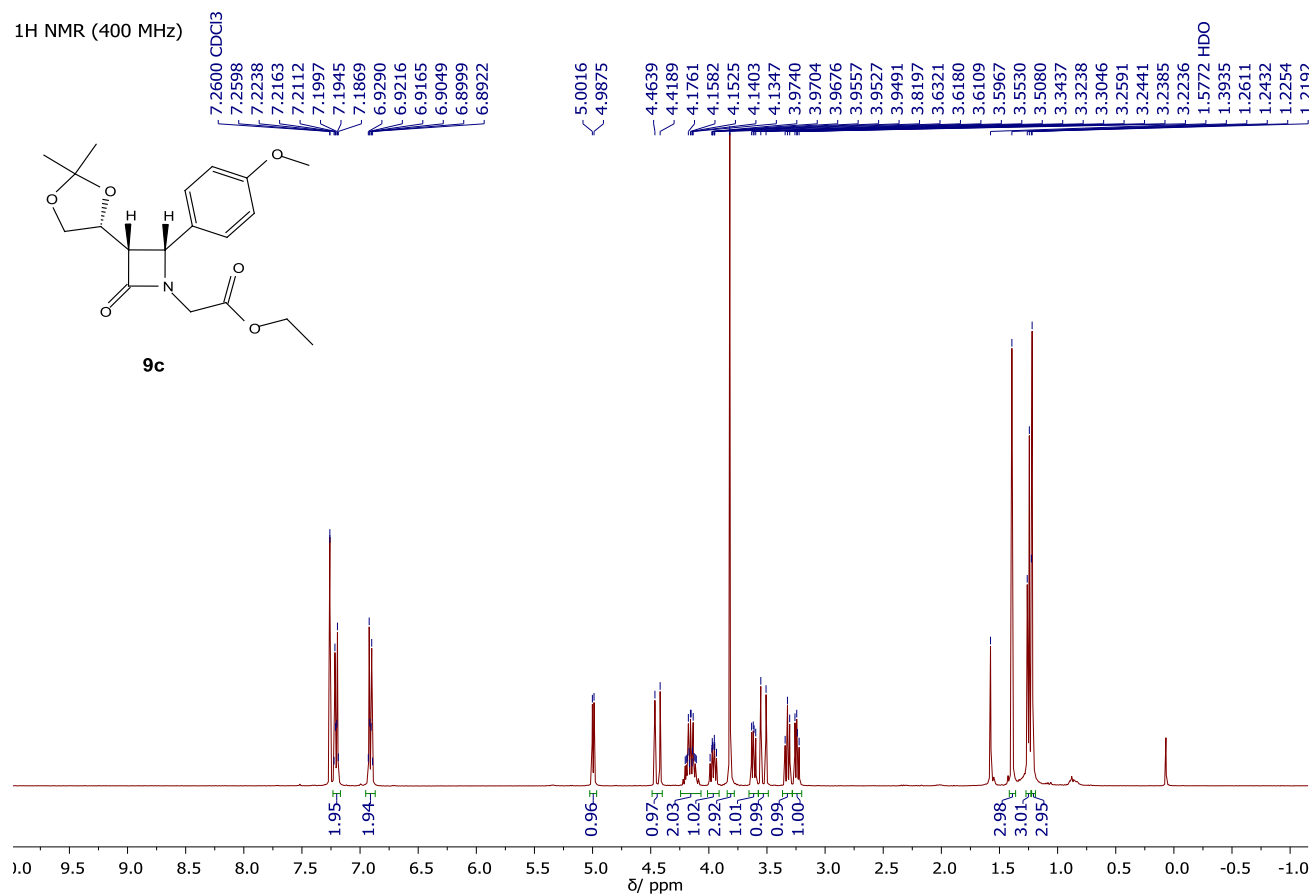
8d

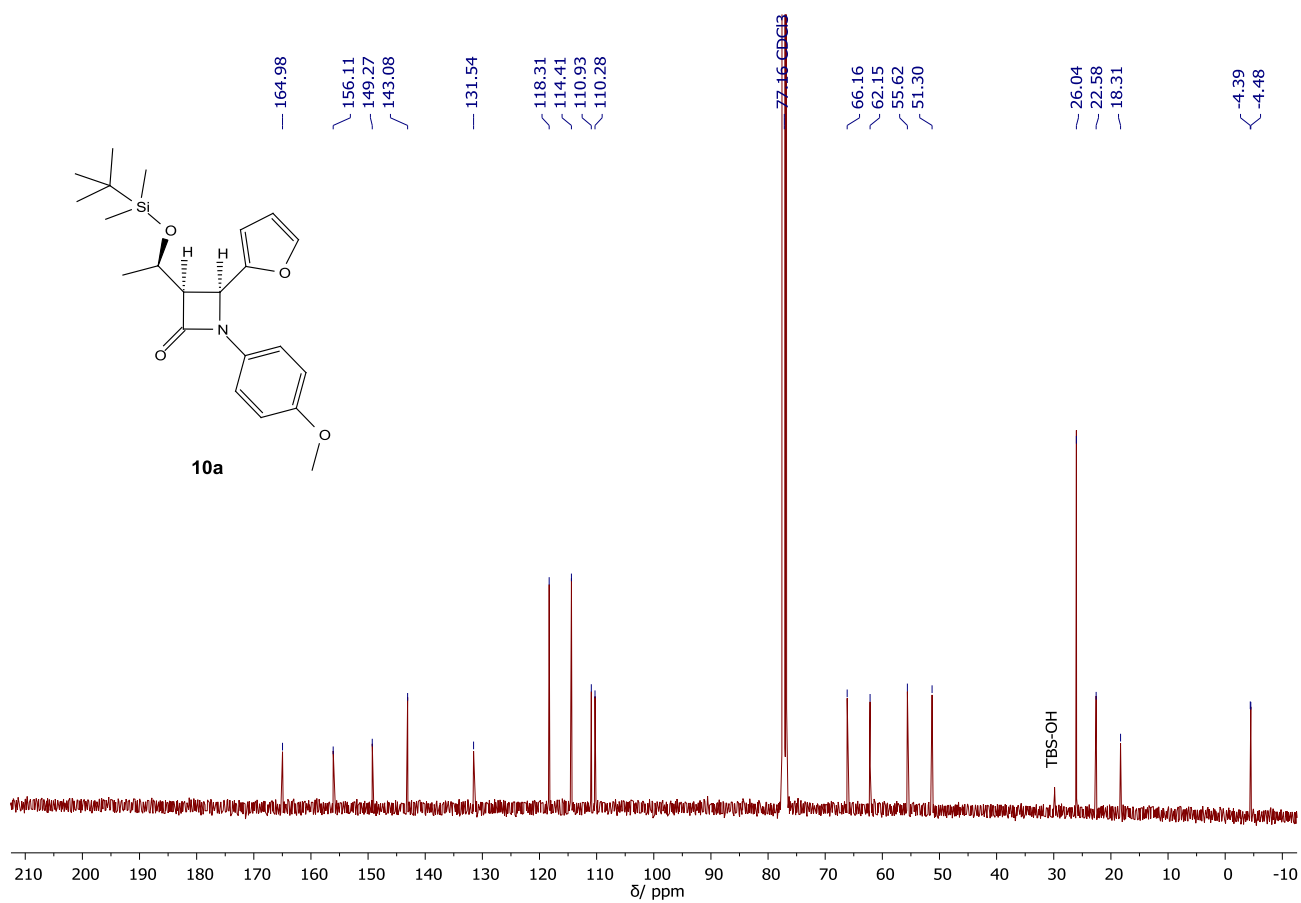
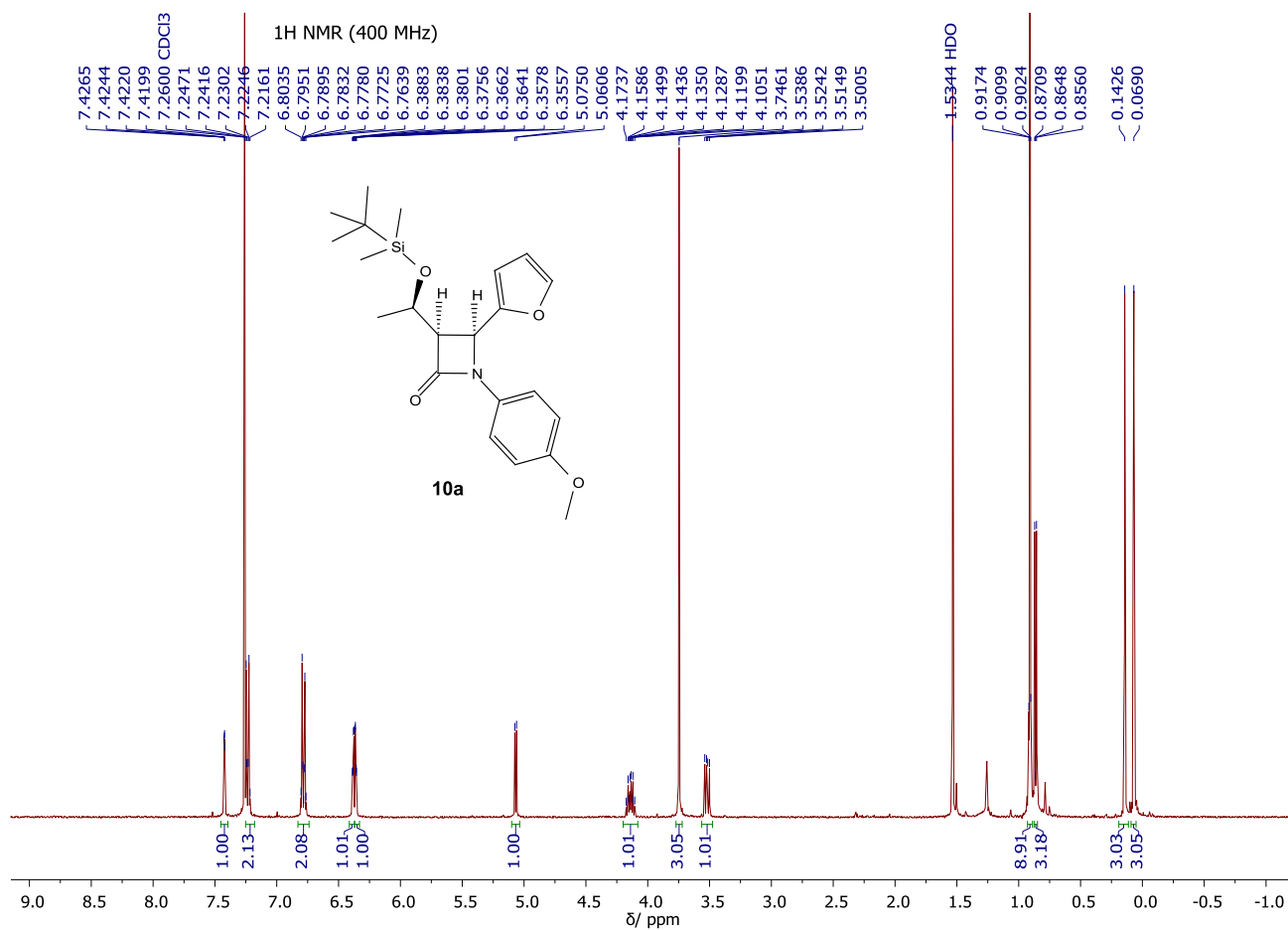


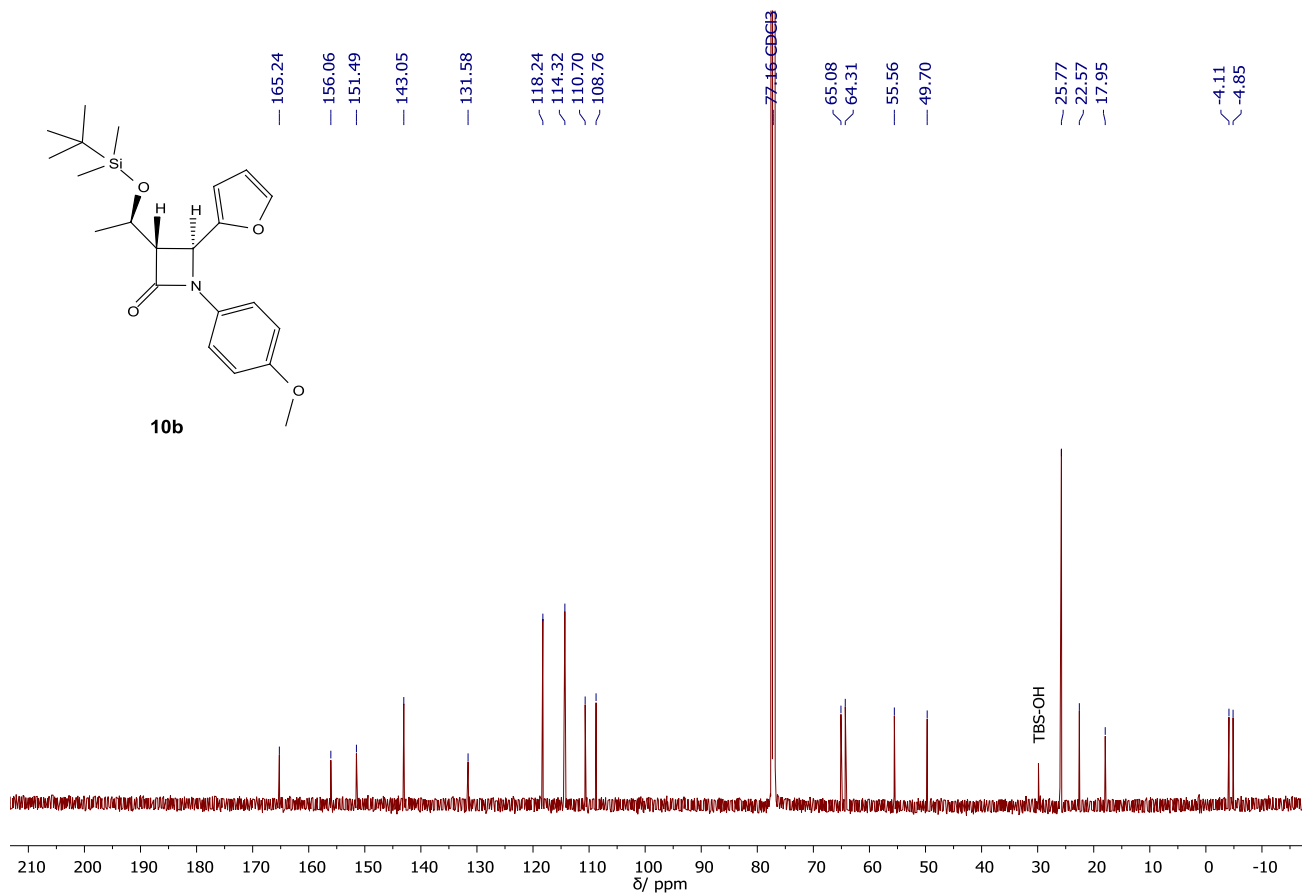
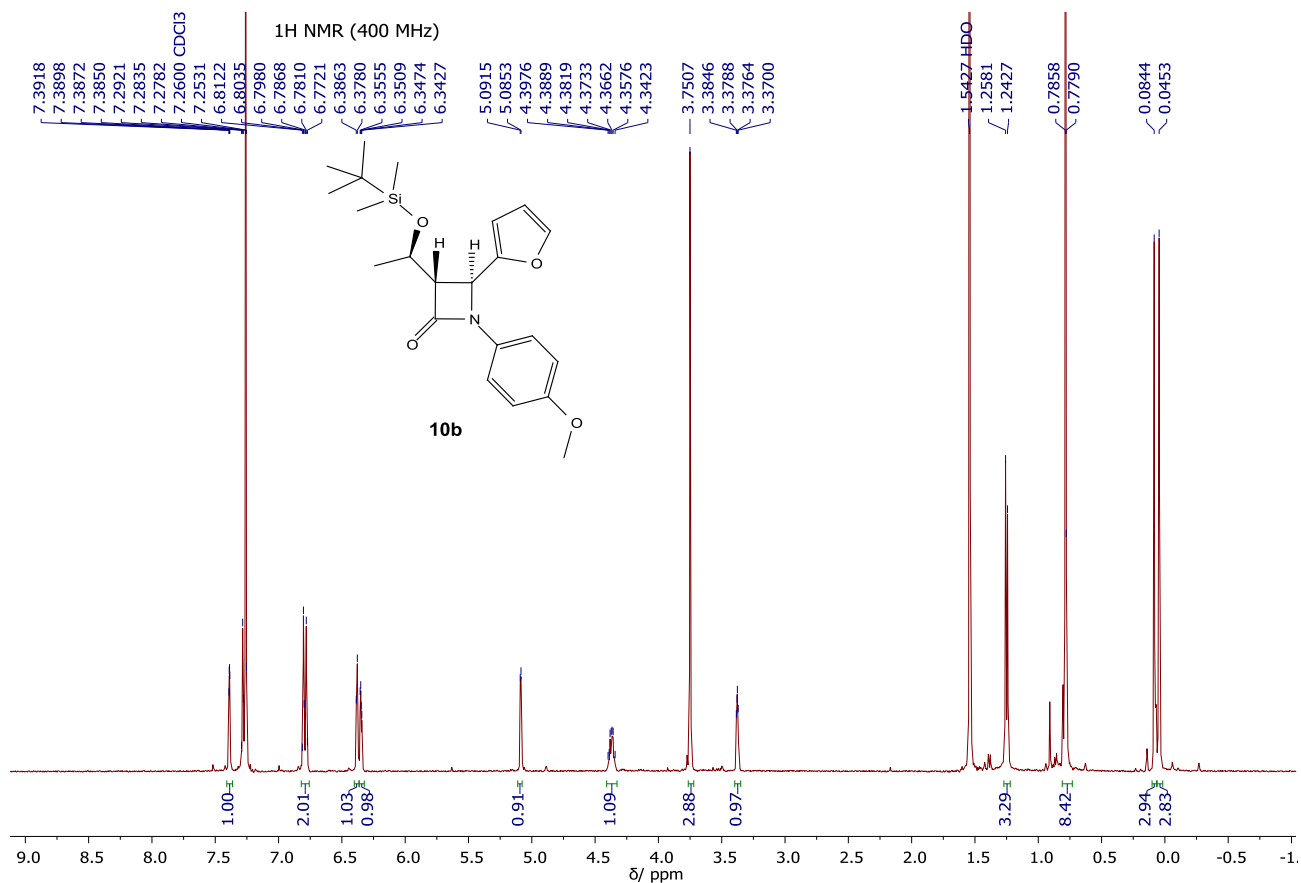


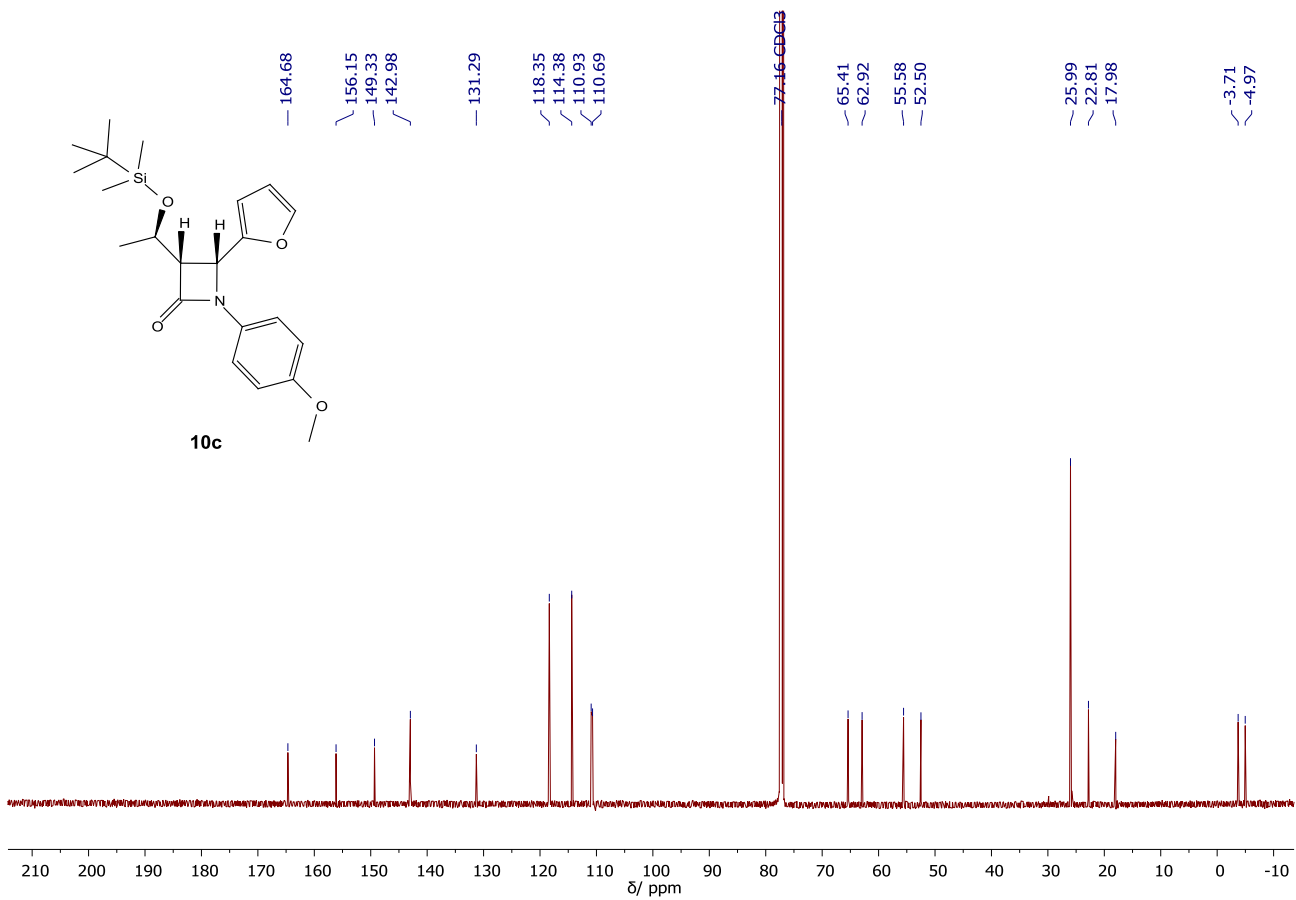
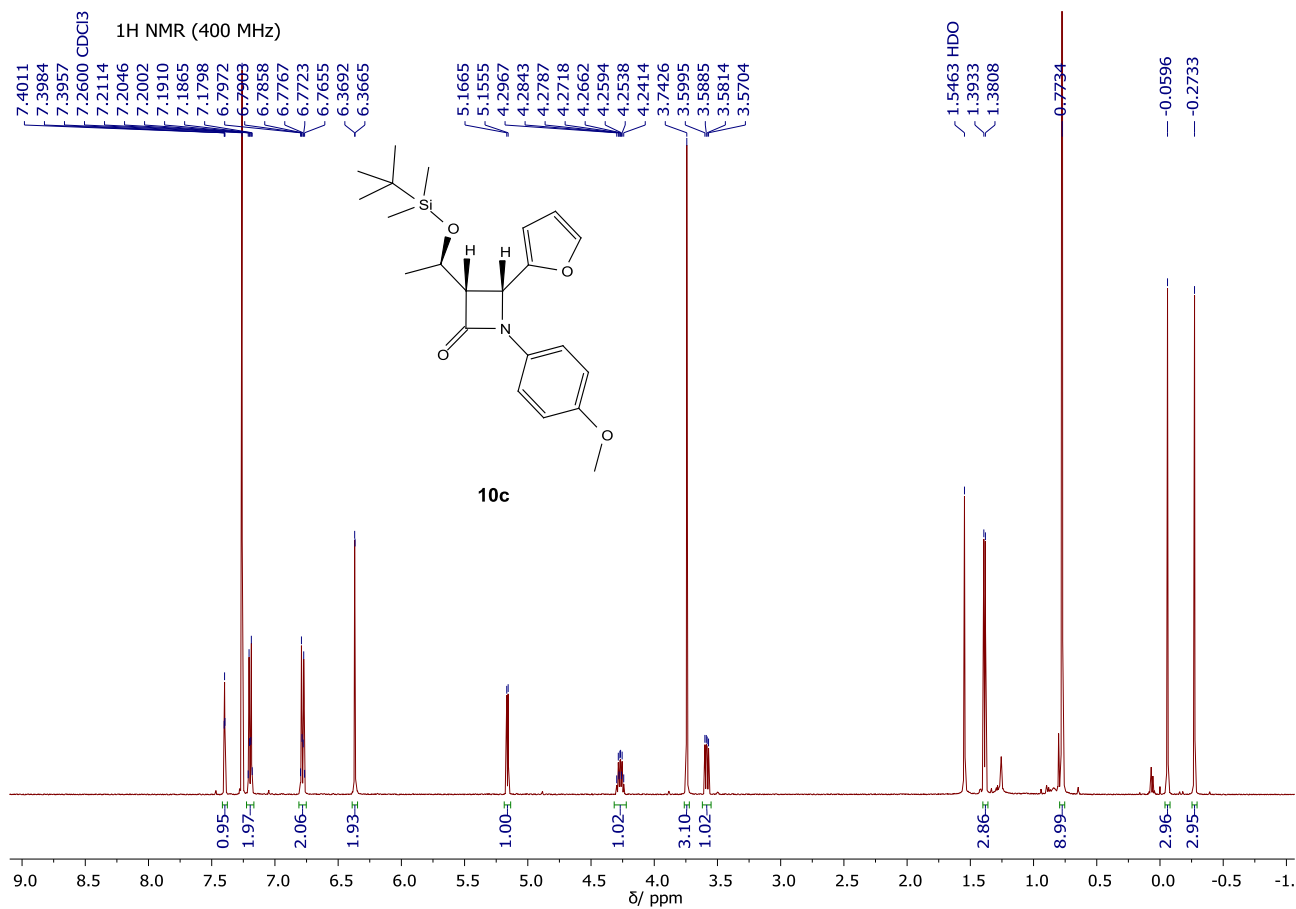


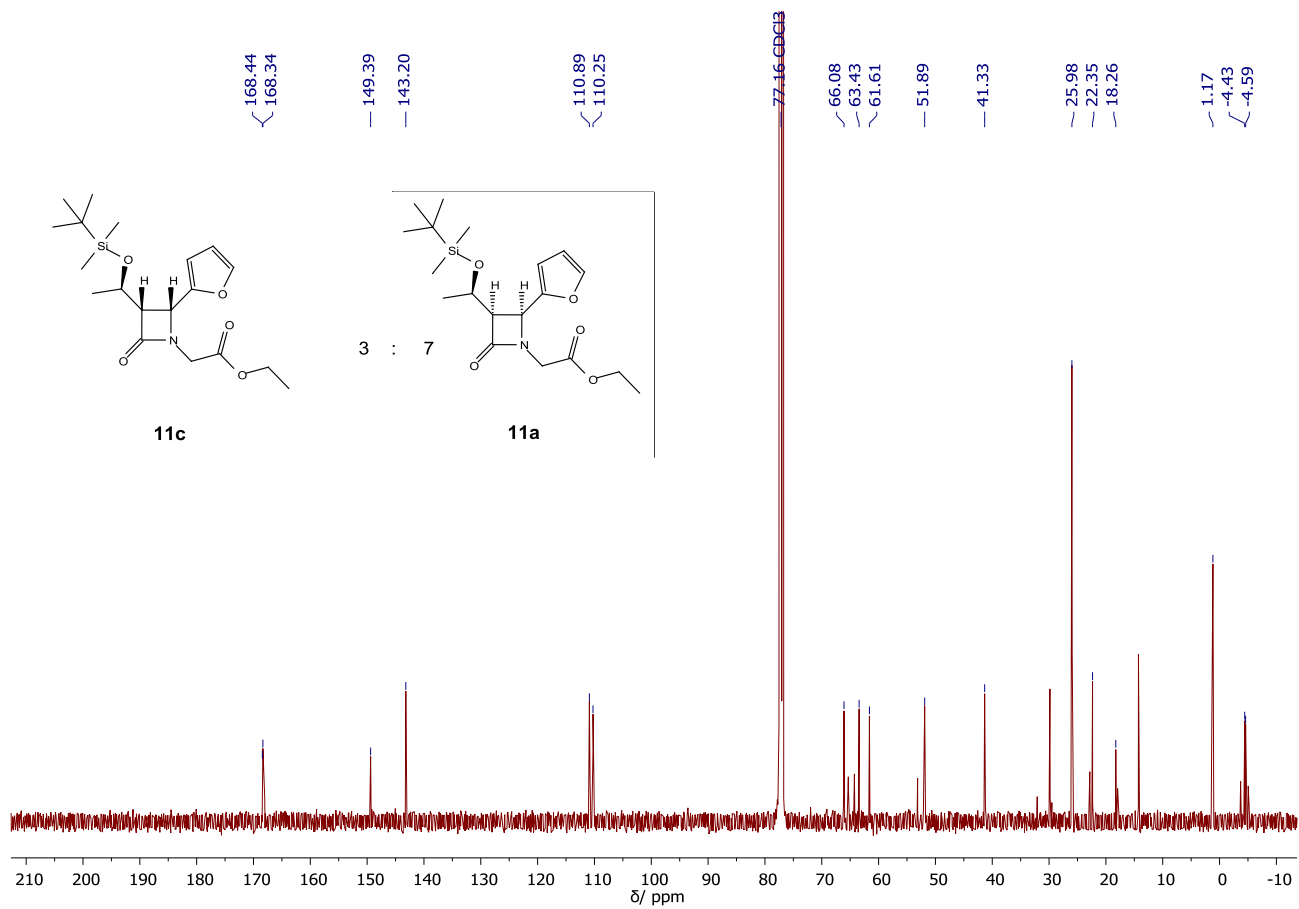
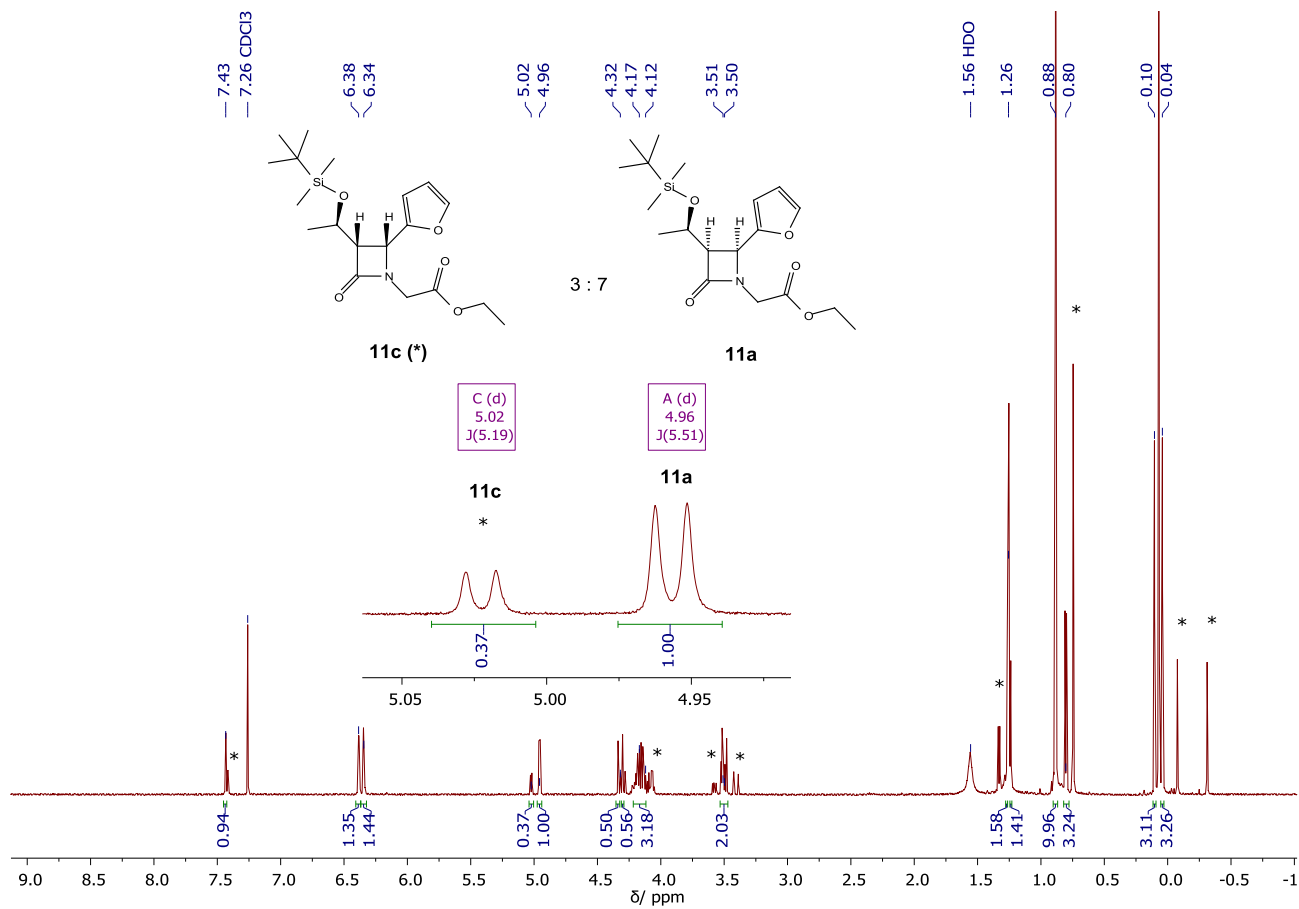
¹H NMR (400 MHz)



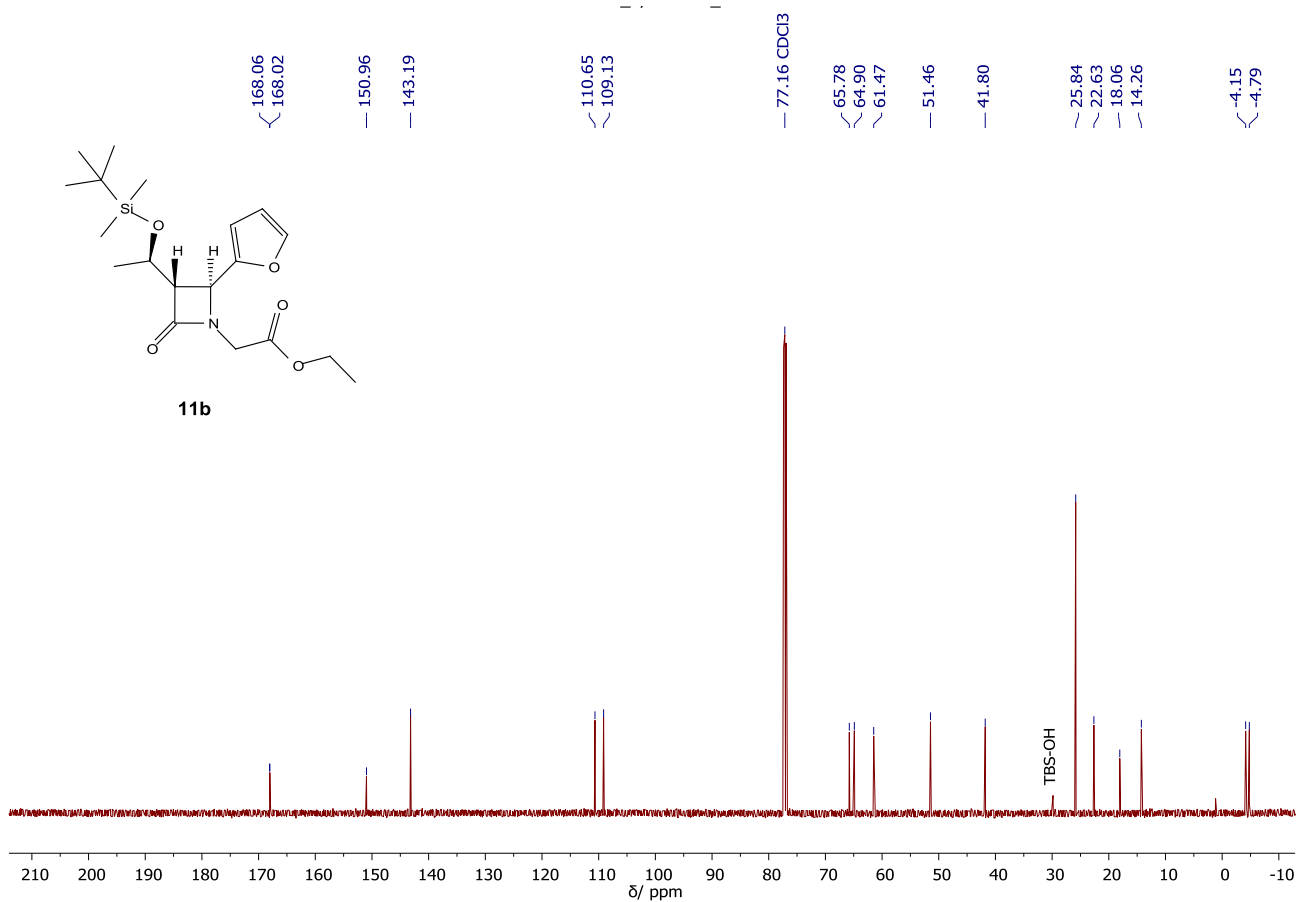
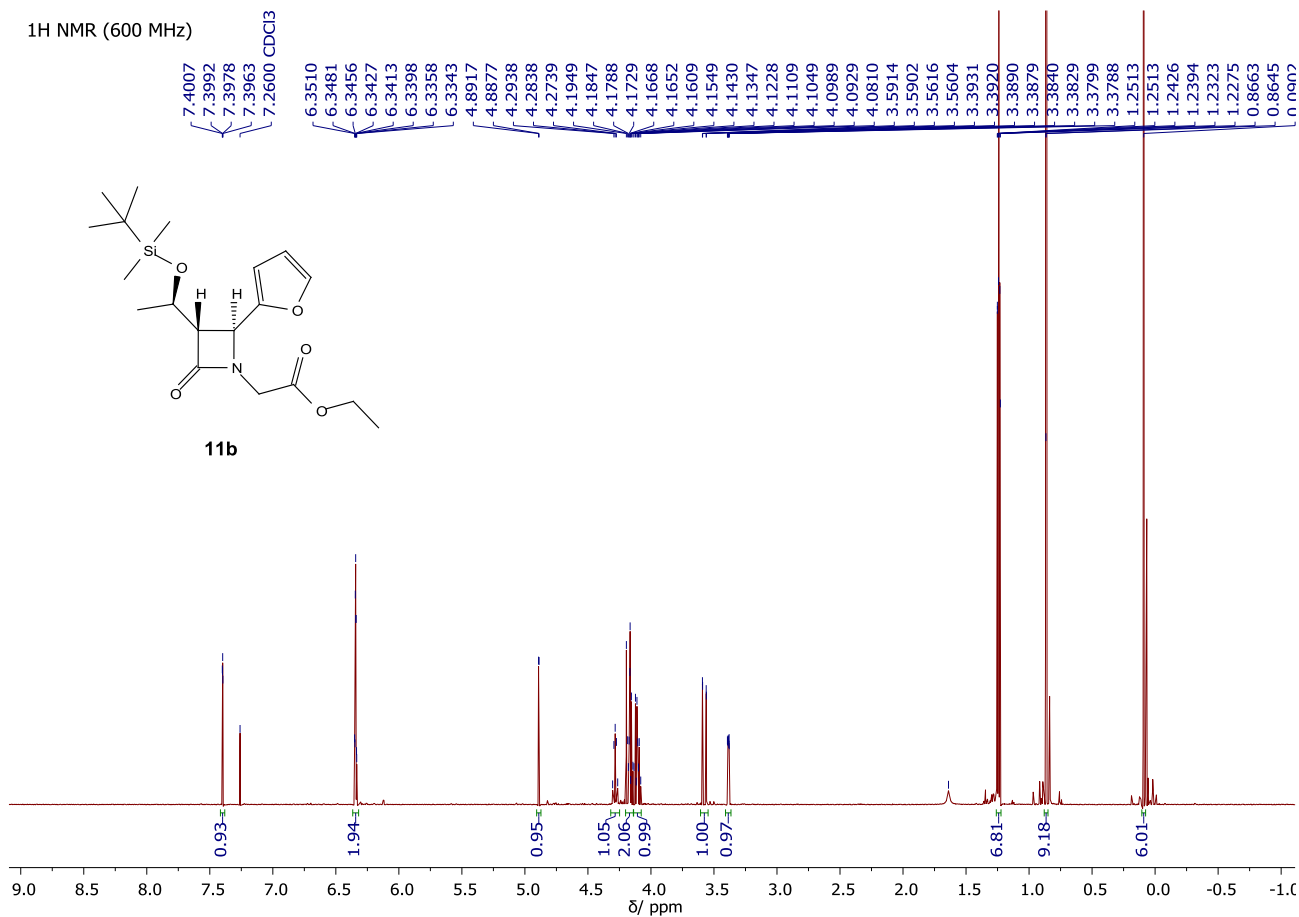


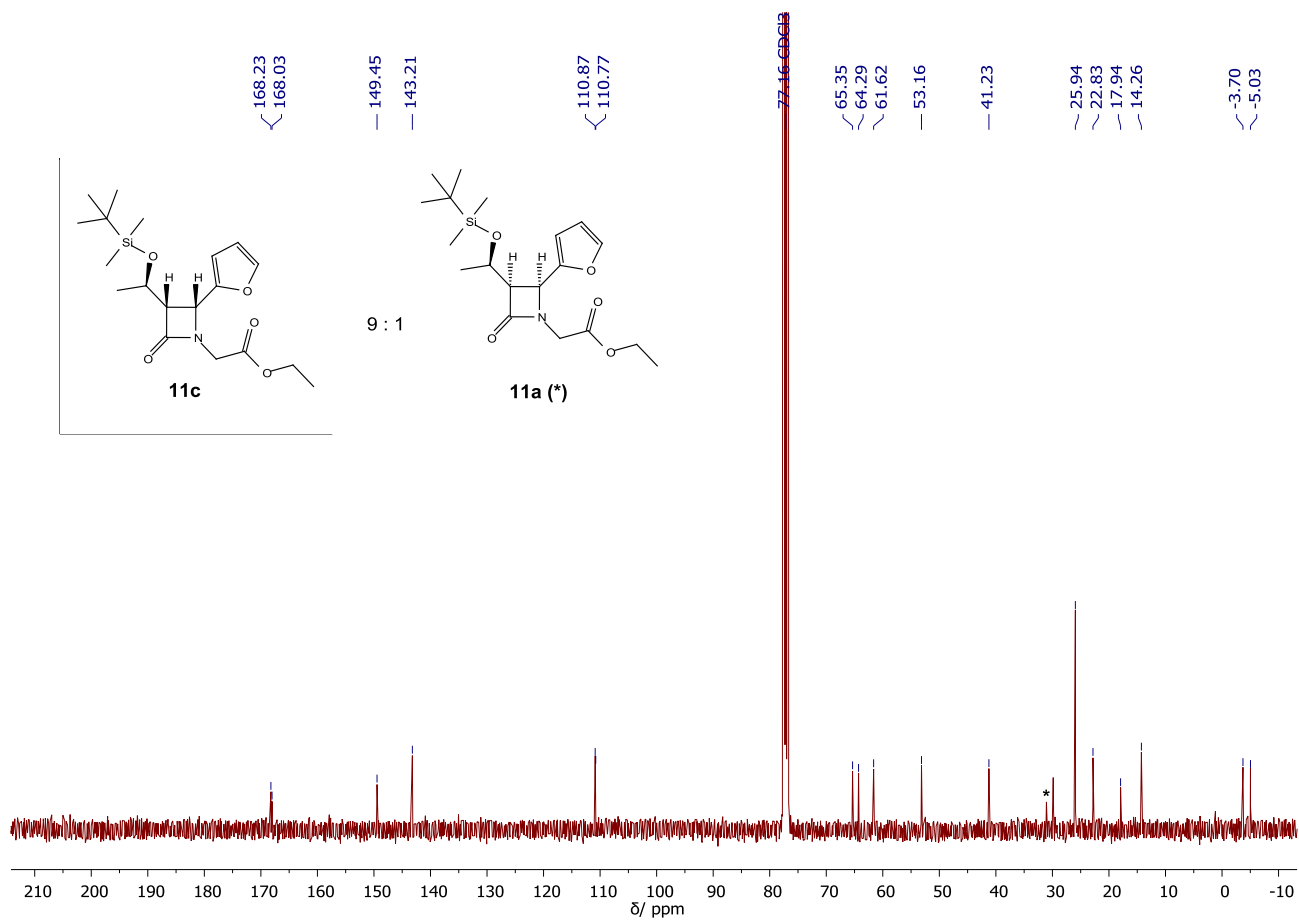


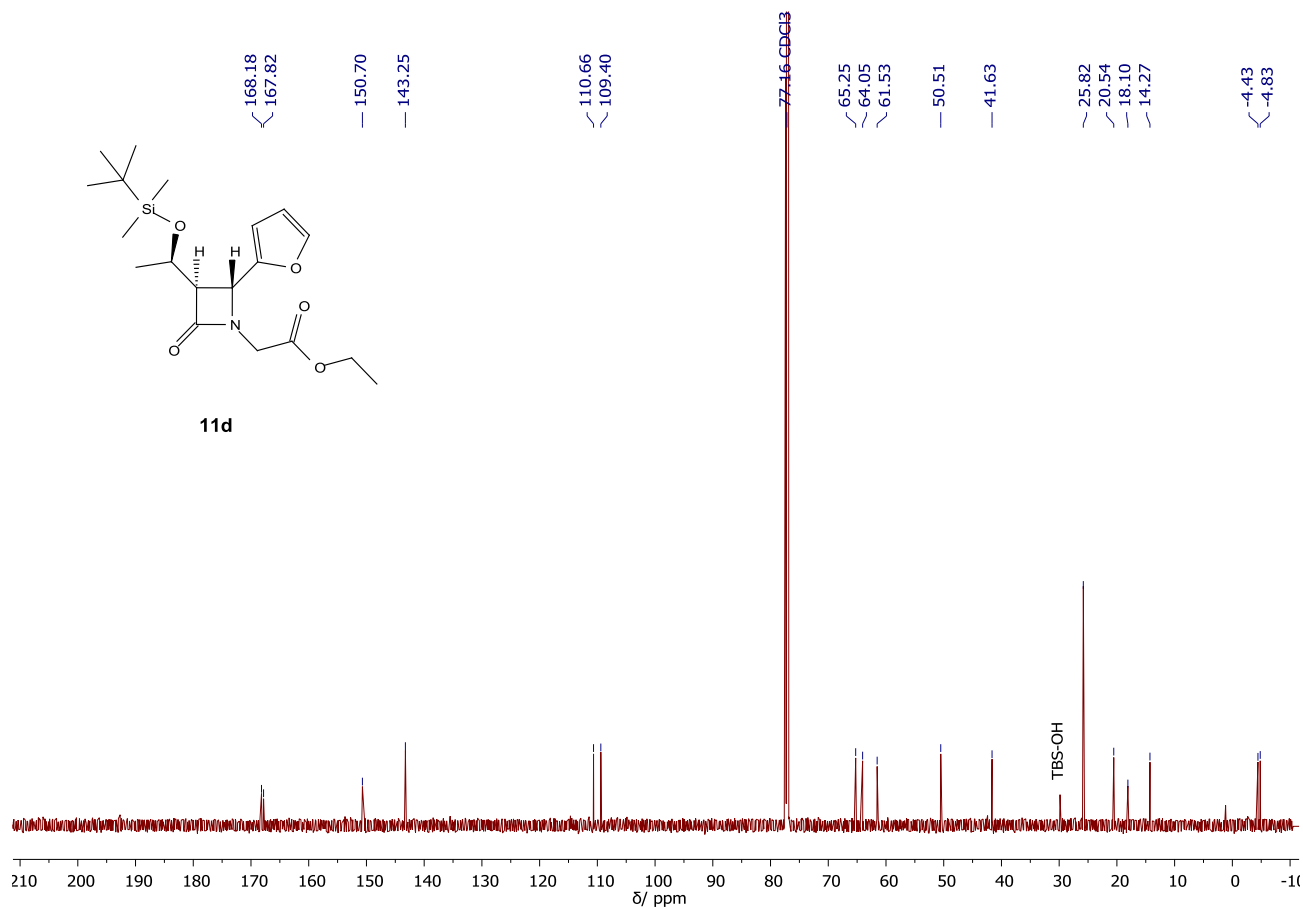
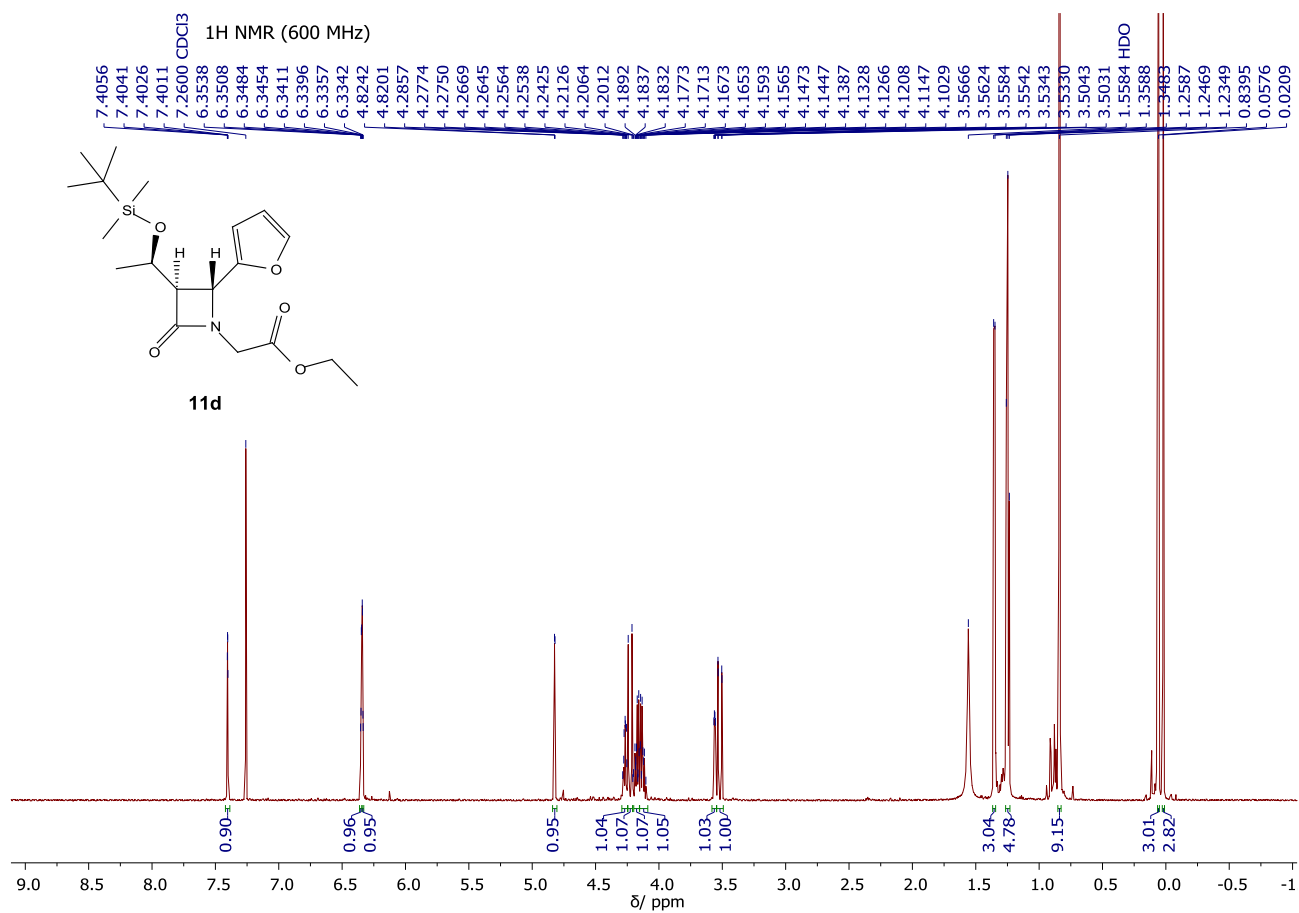


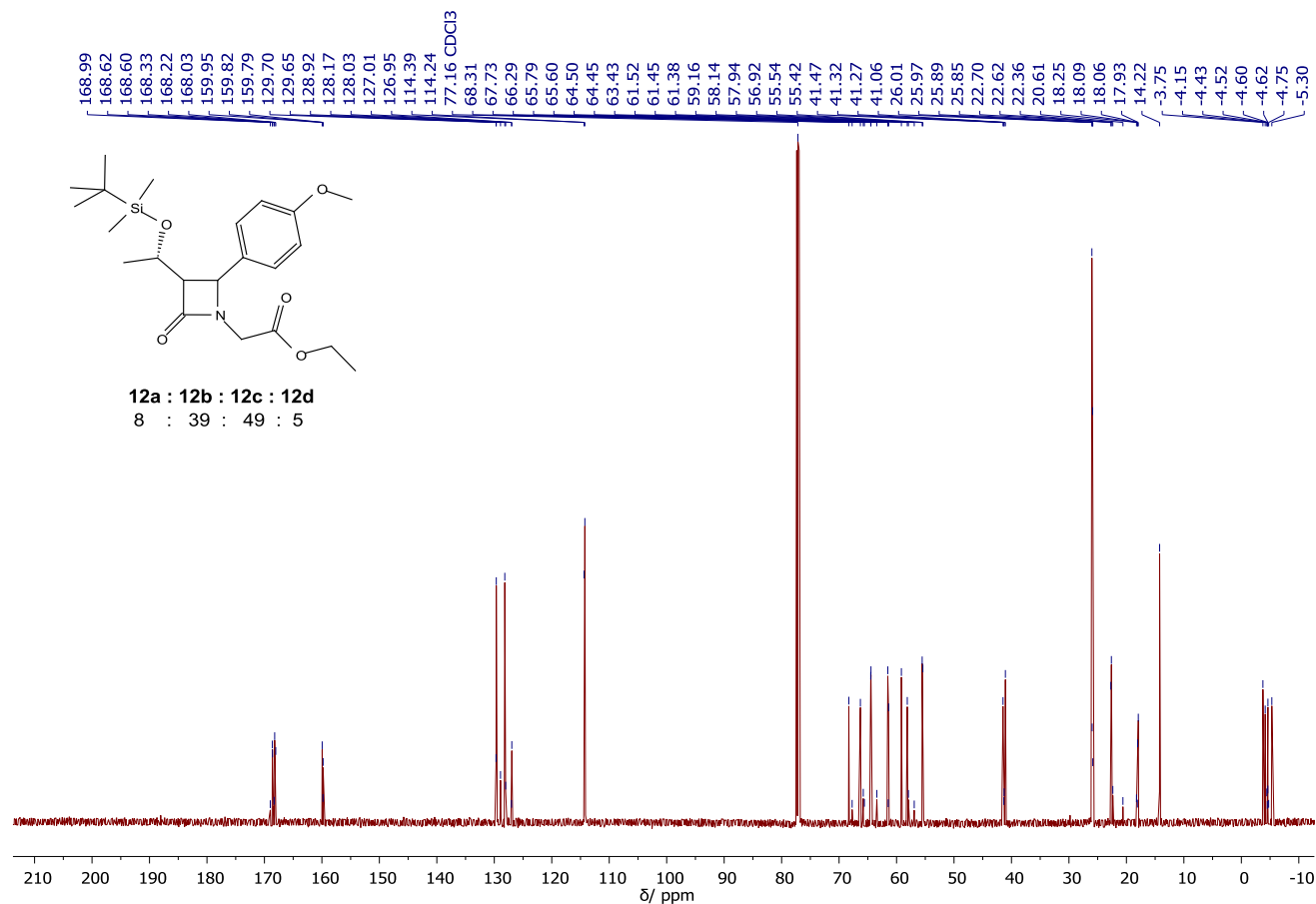
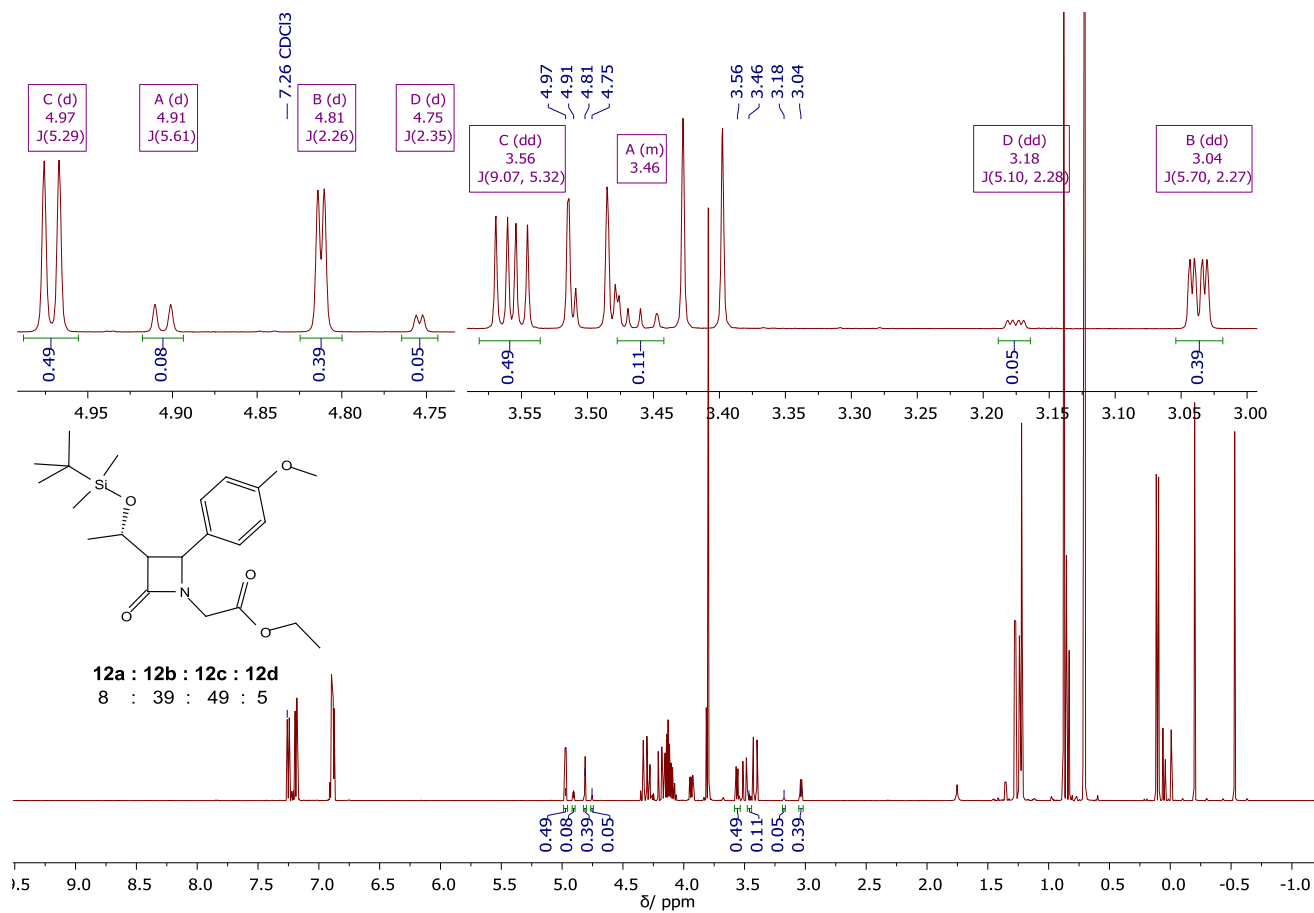


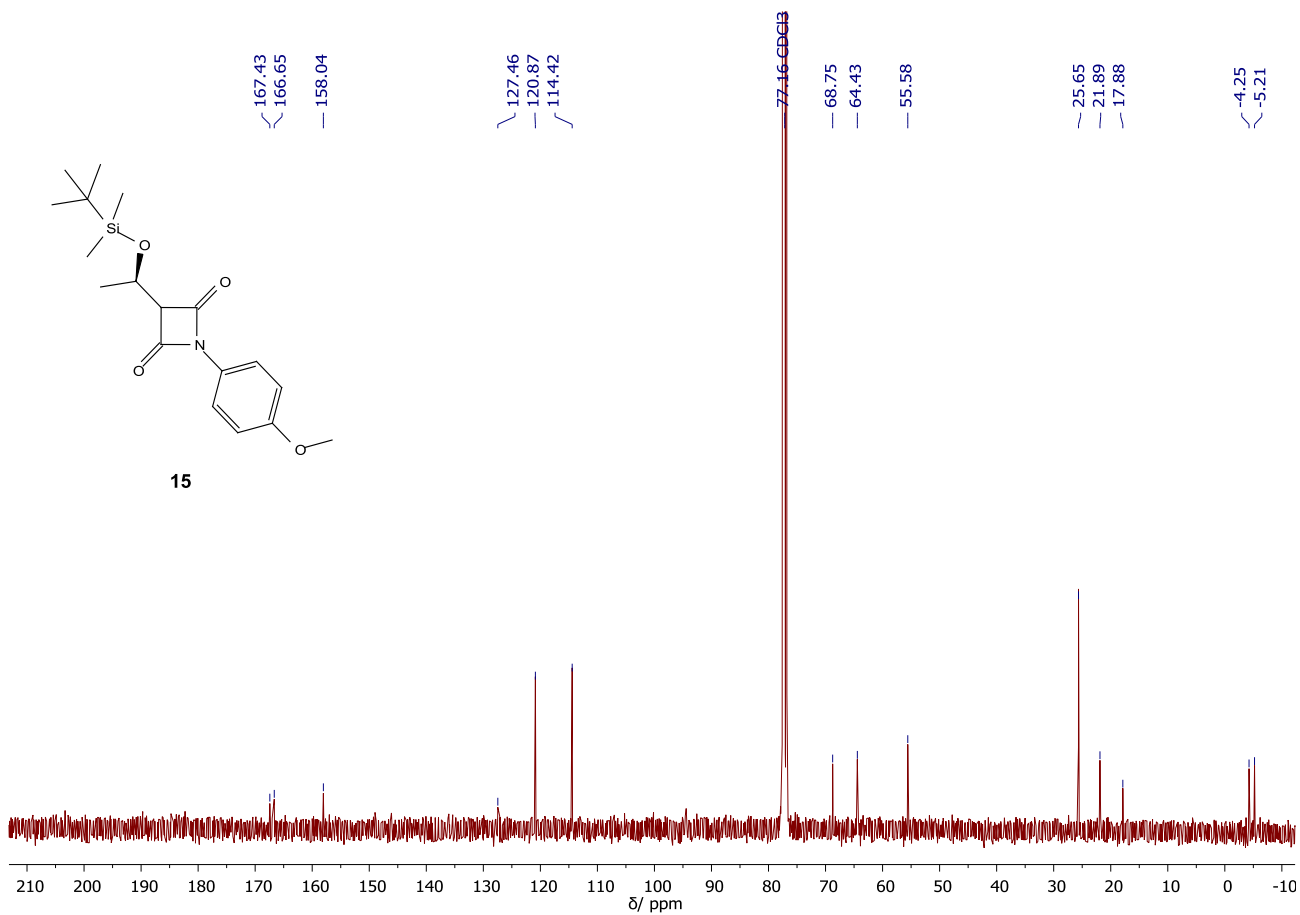
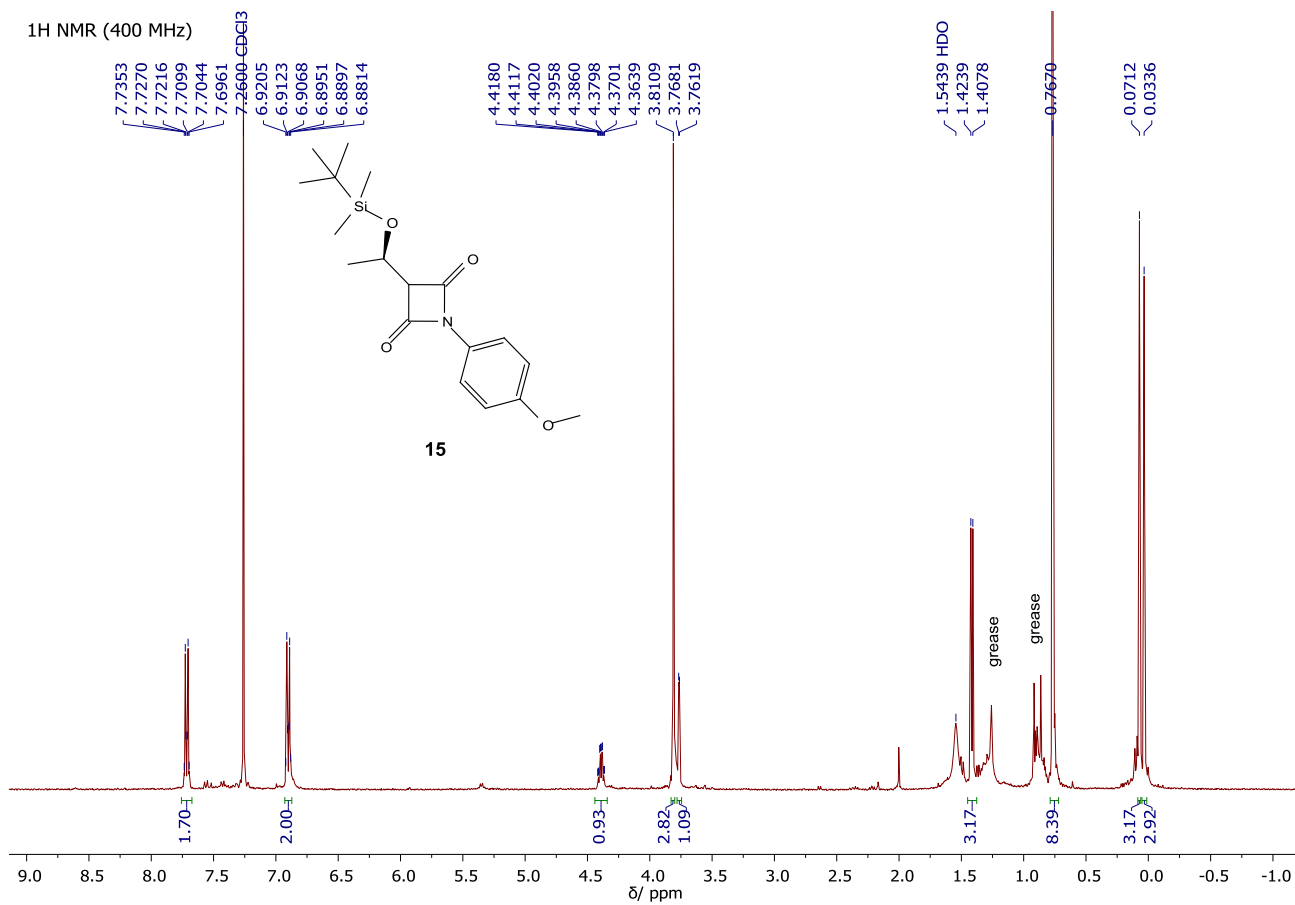
¹H NMR (600 MHz)



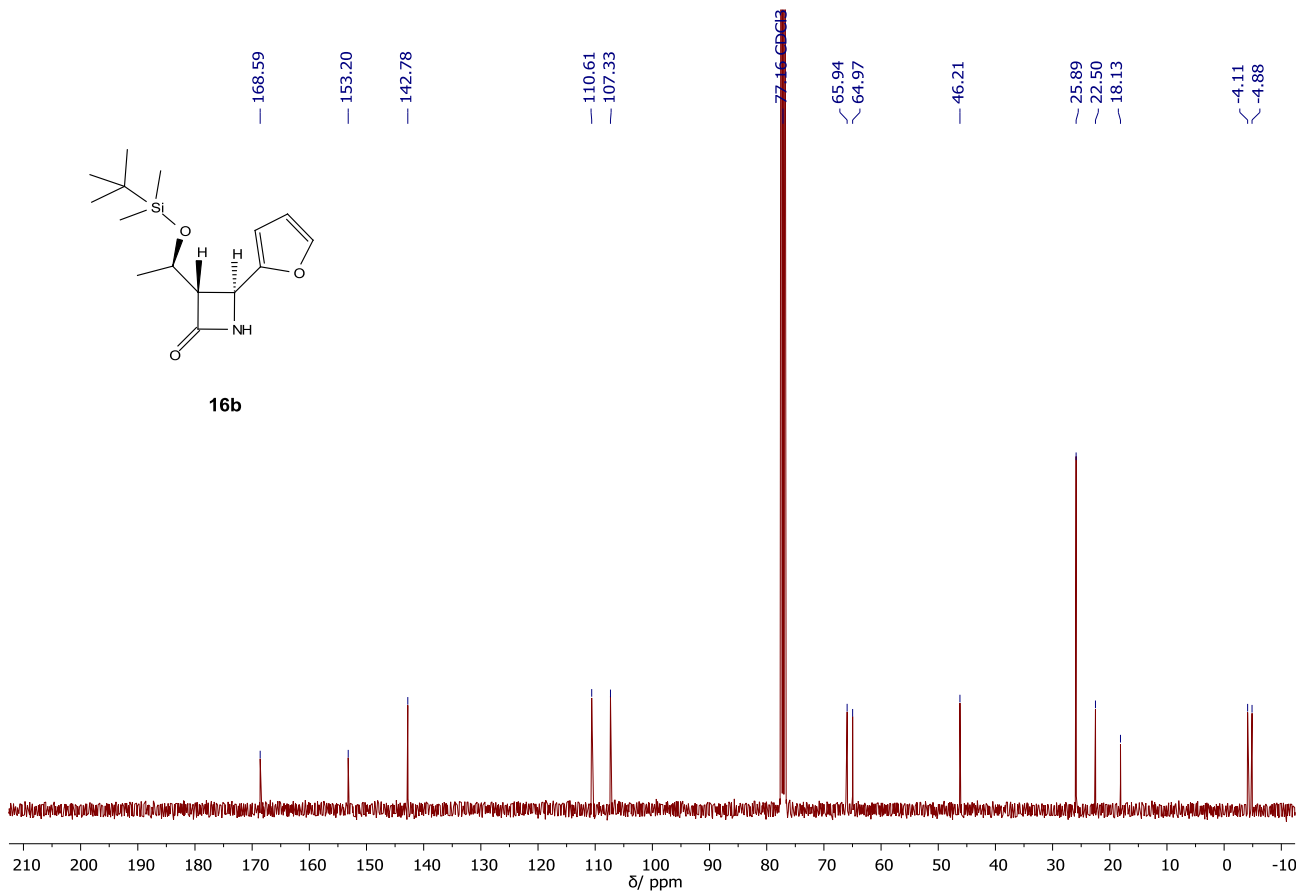
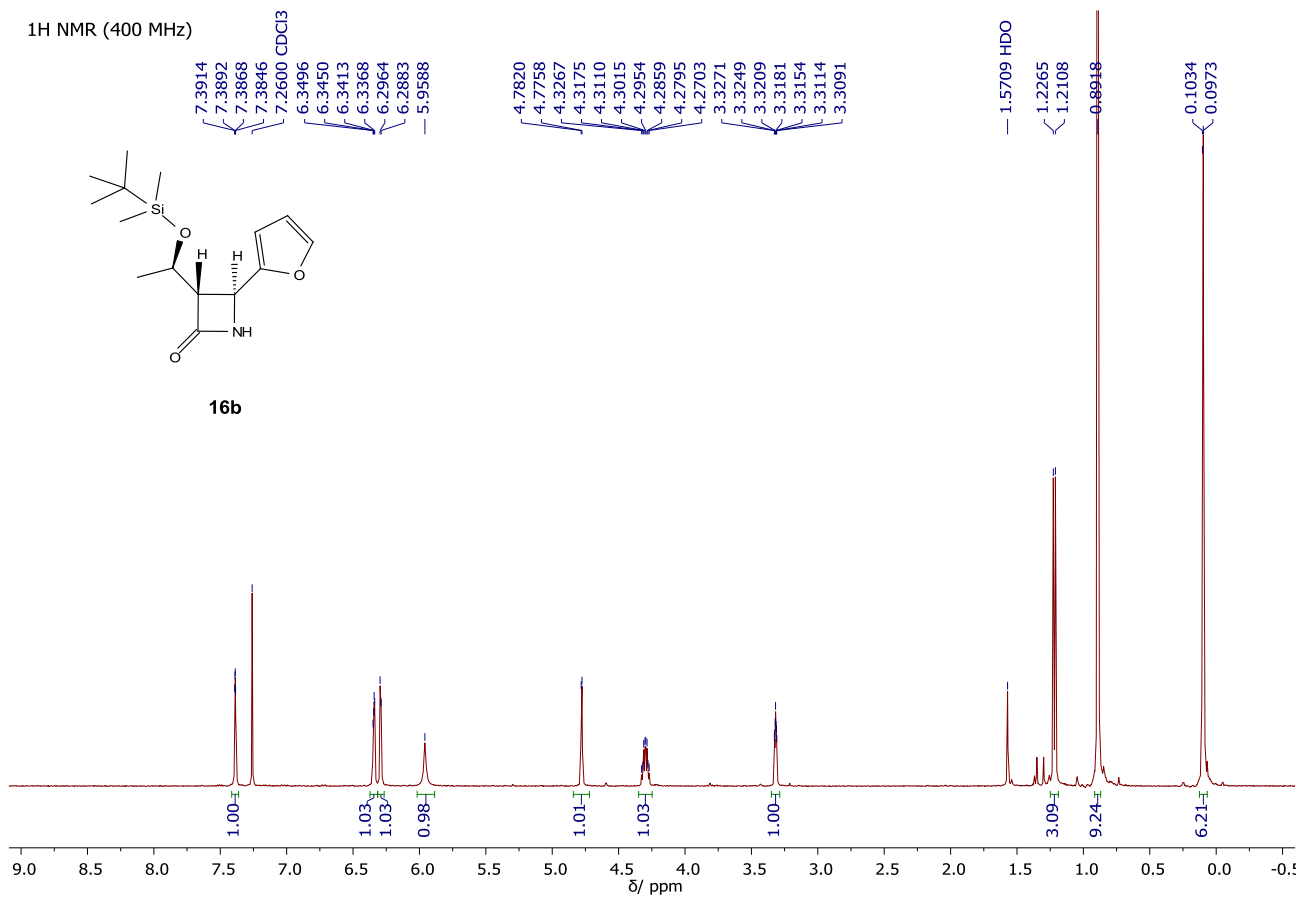






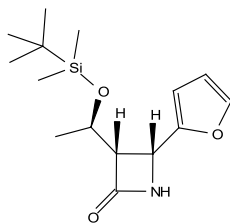


¹H NMR (400 MHz)

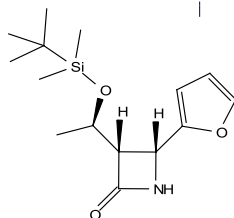
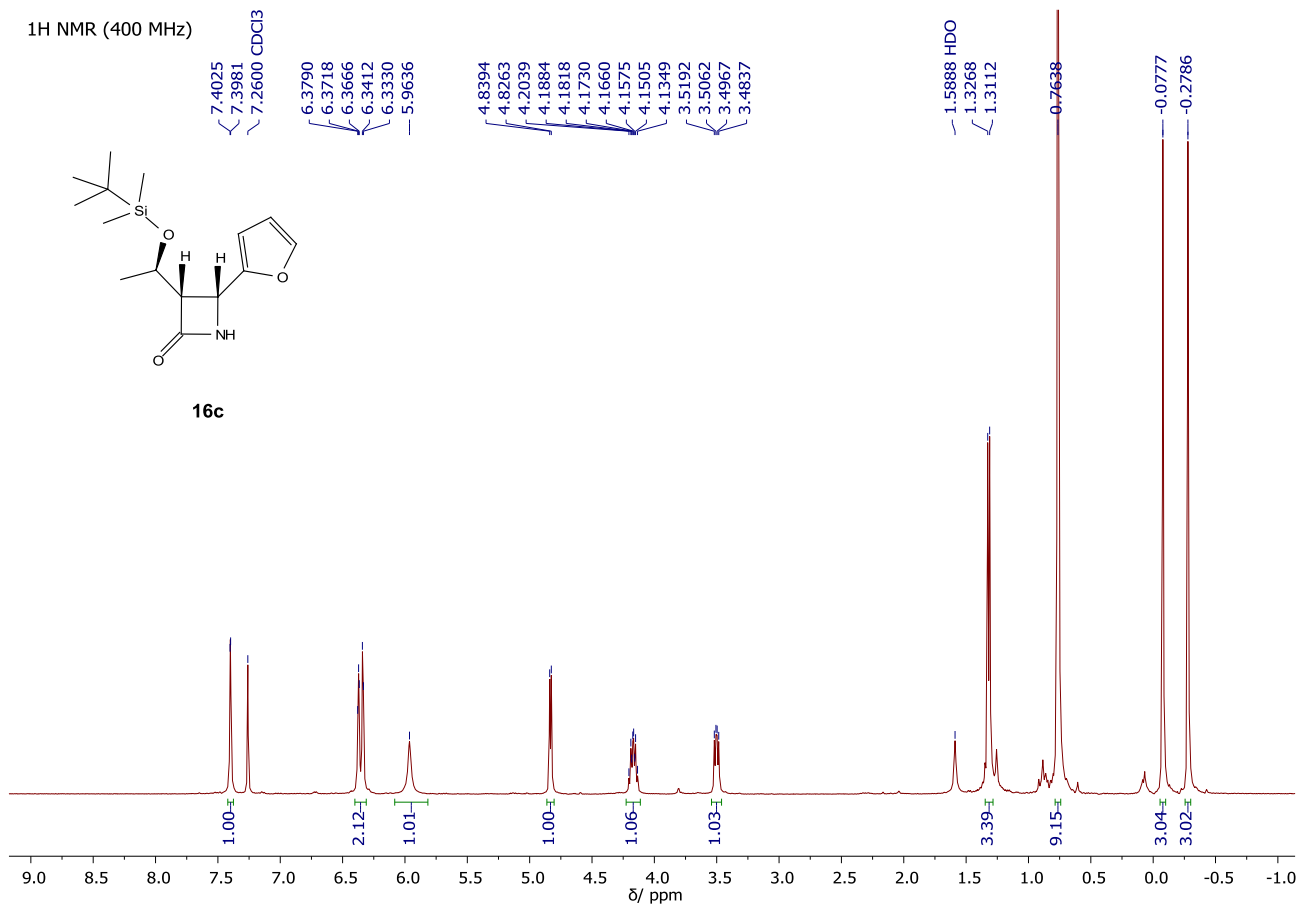


¹H NMR (400 MHz)

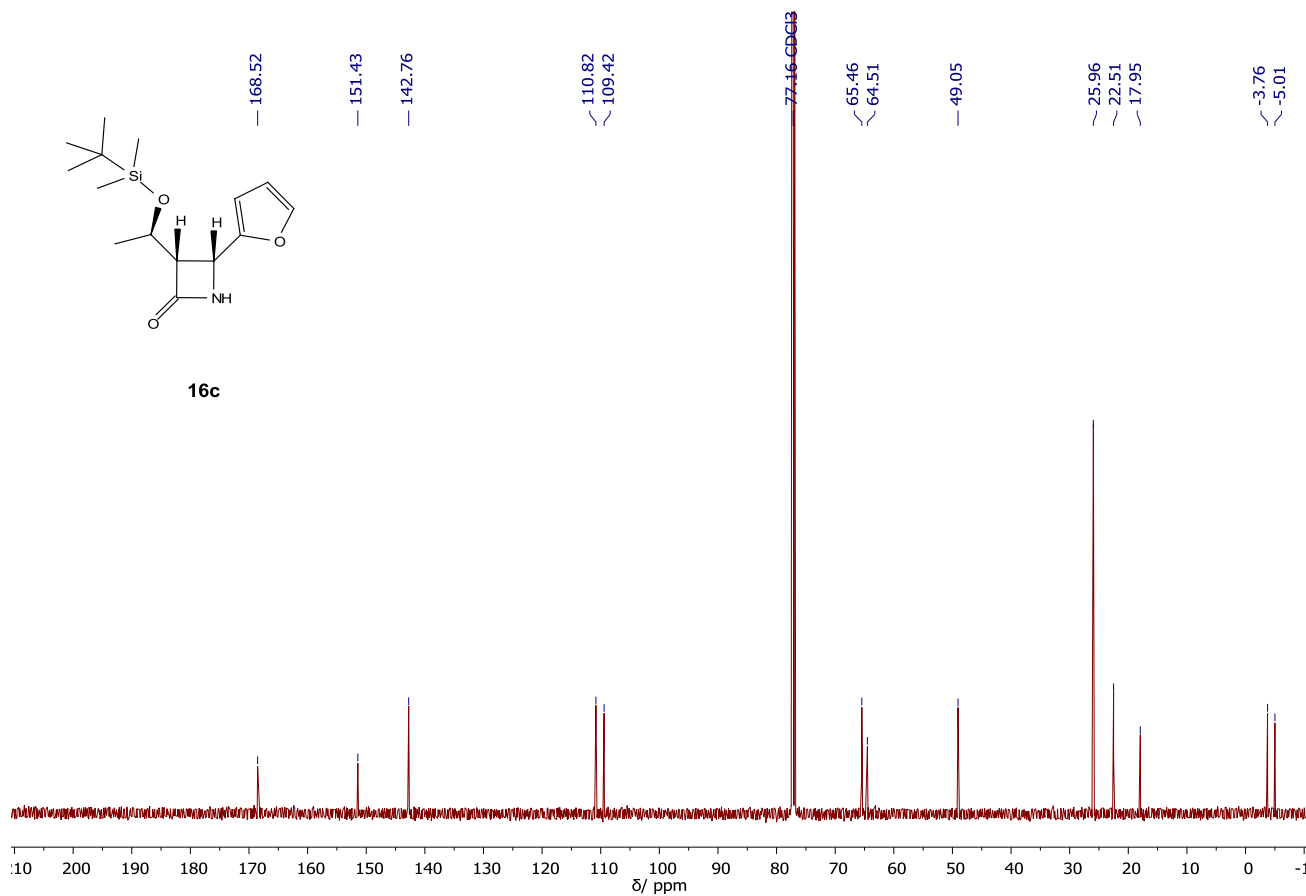
CDCl₃

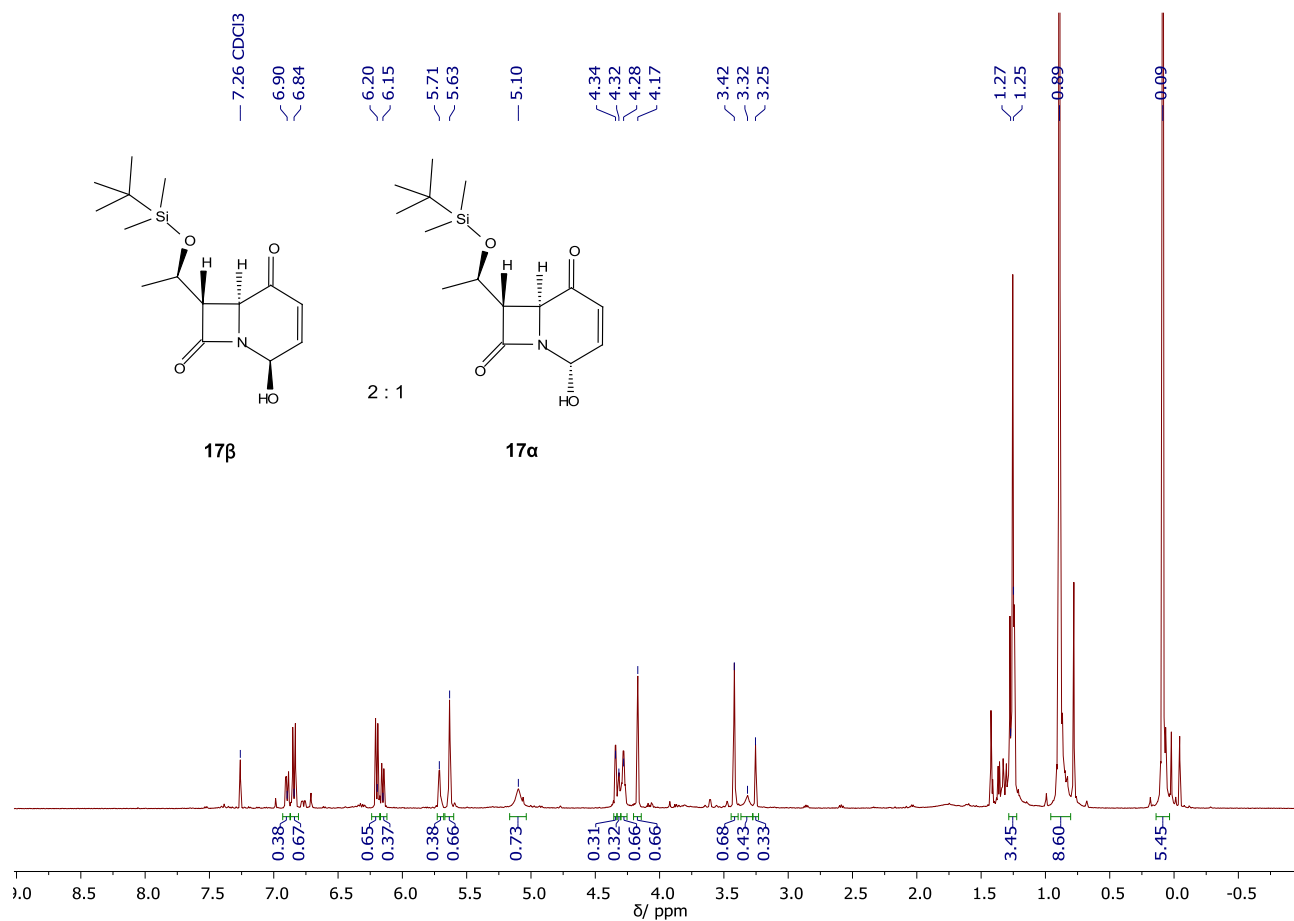


16c

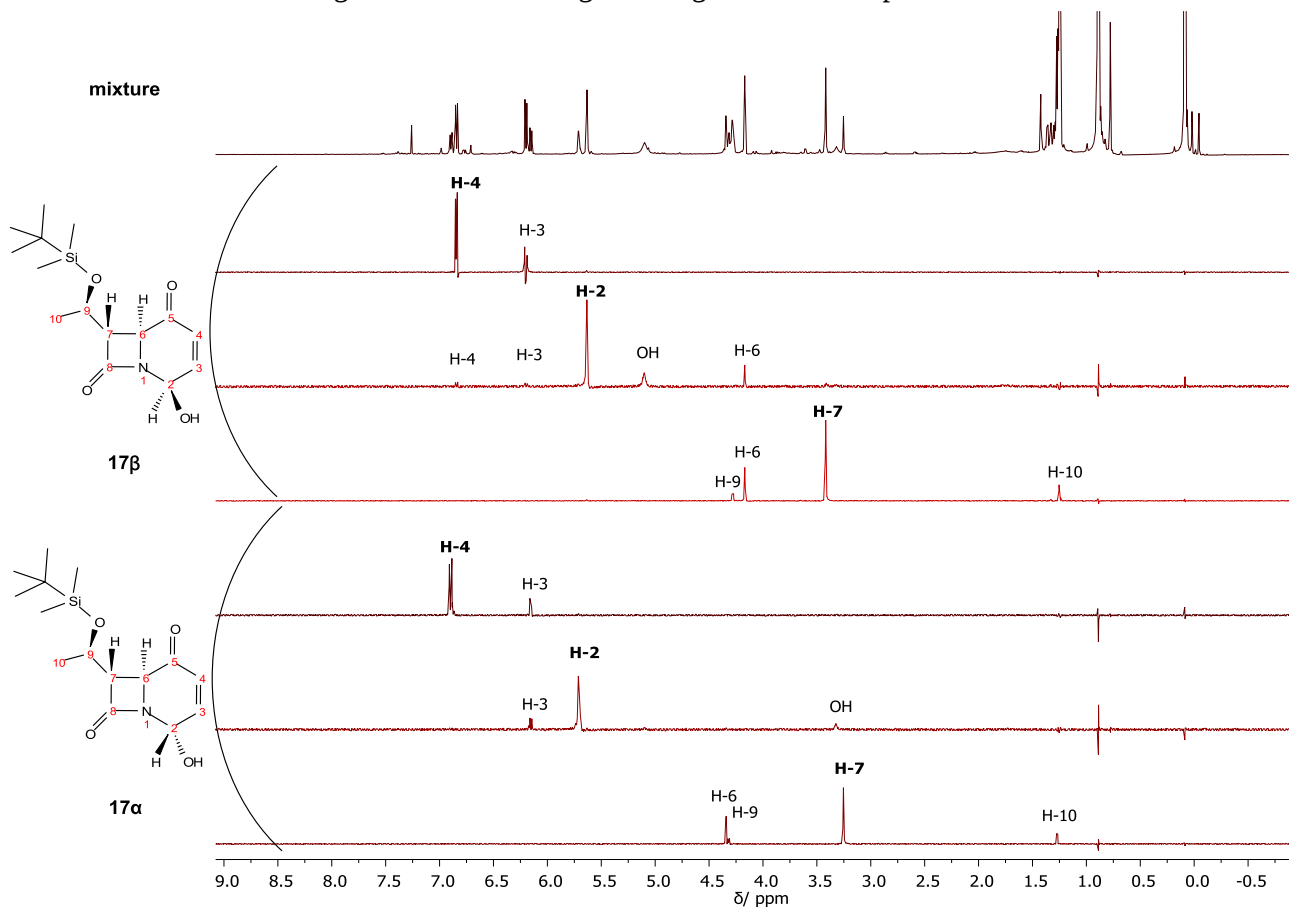


16c

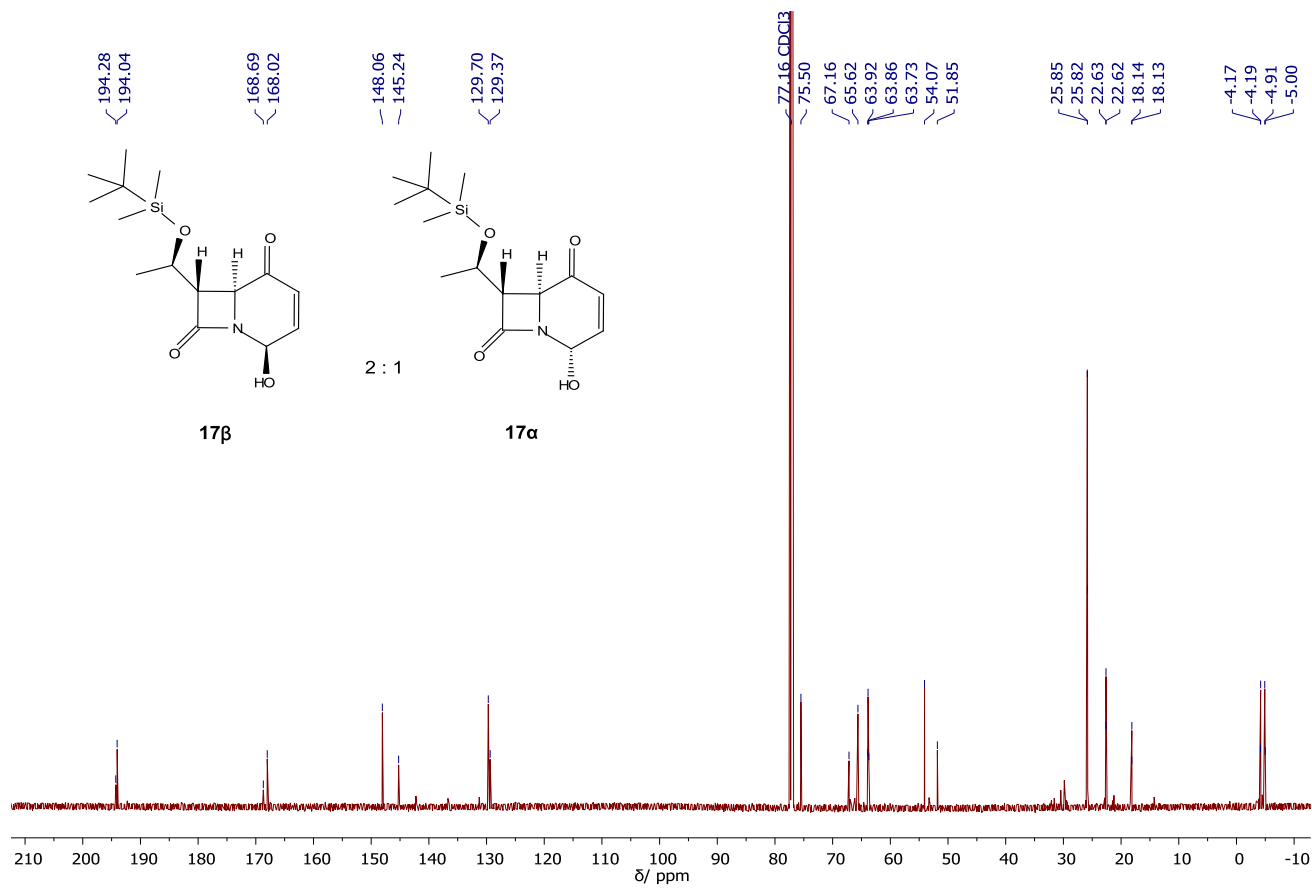
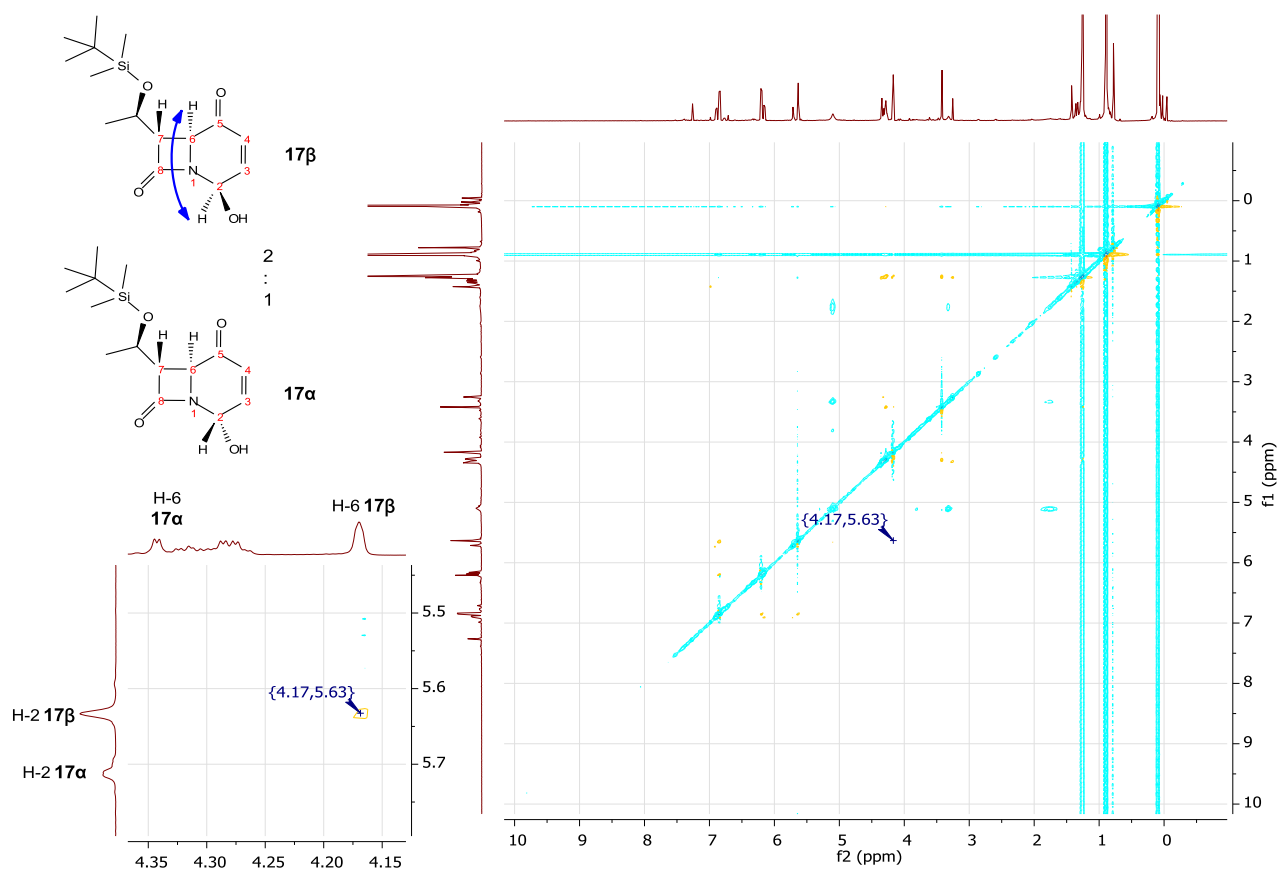


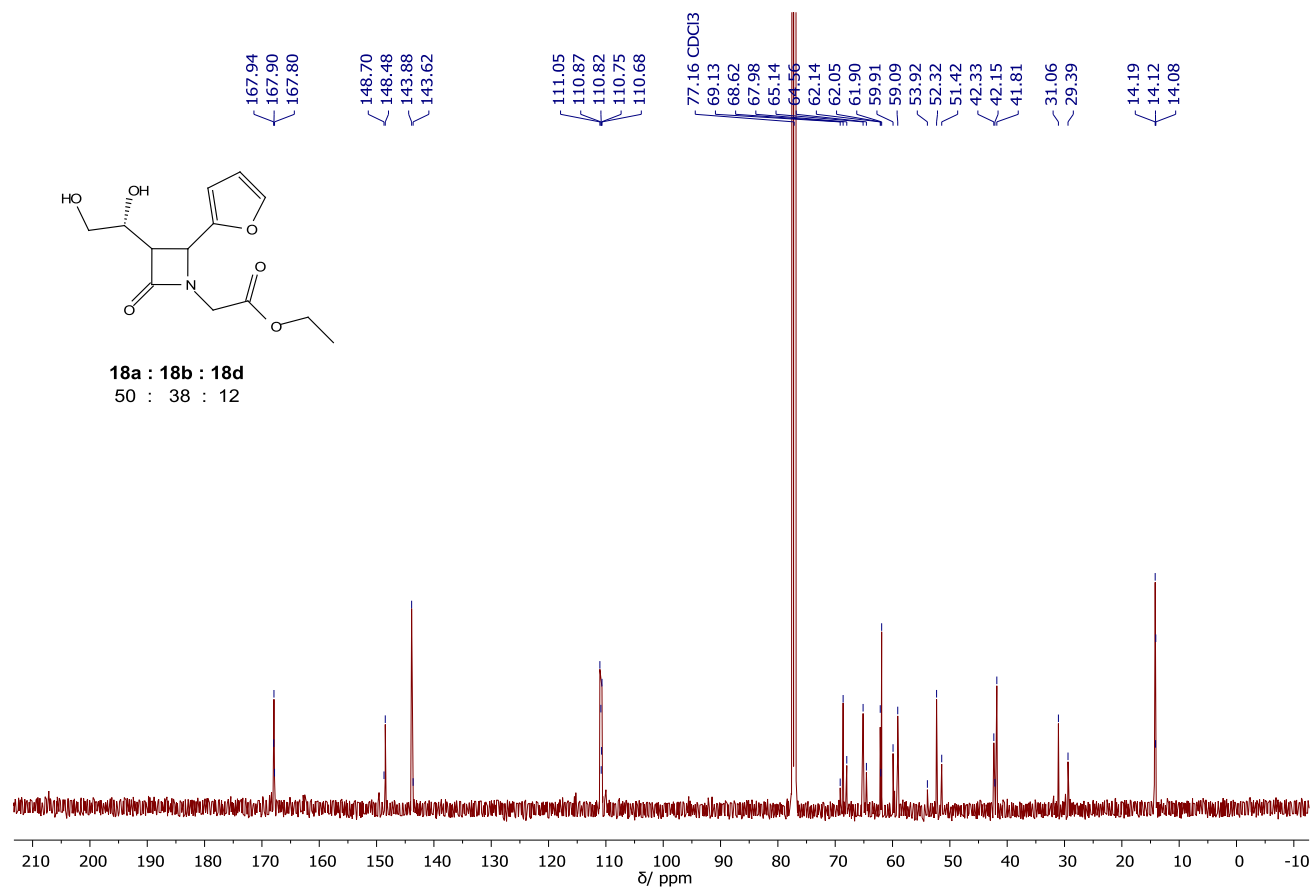
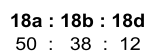


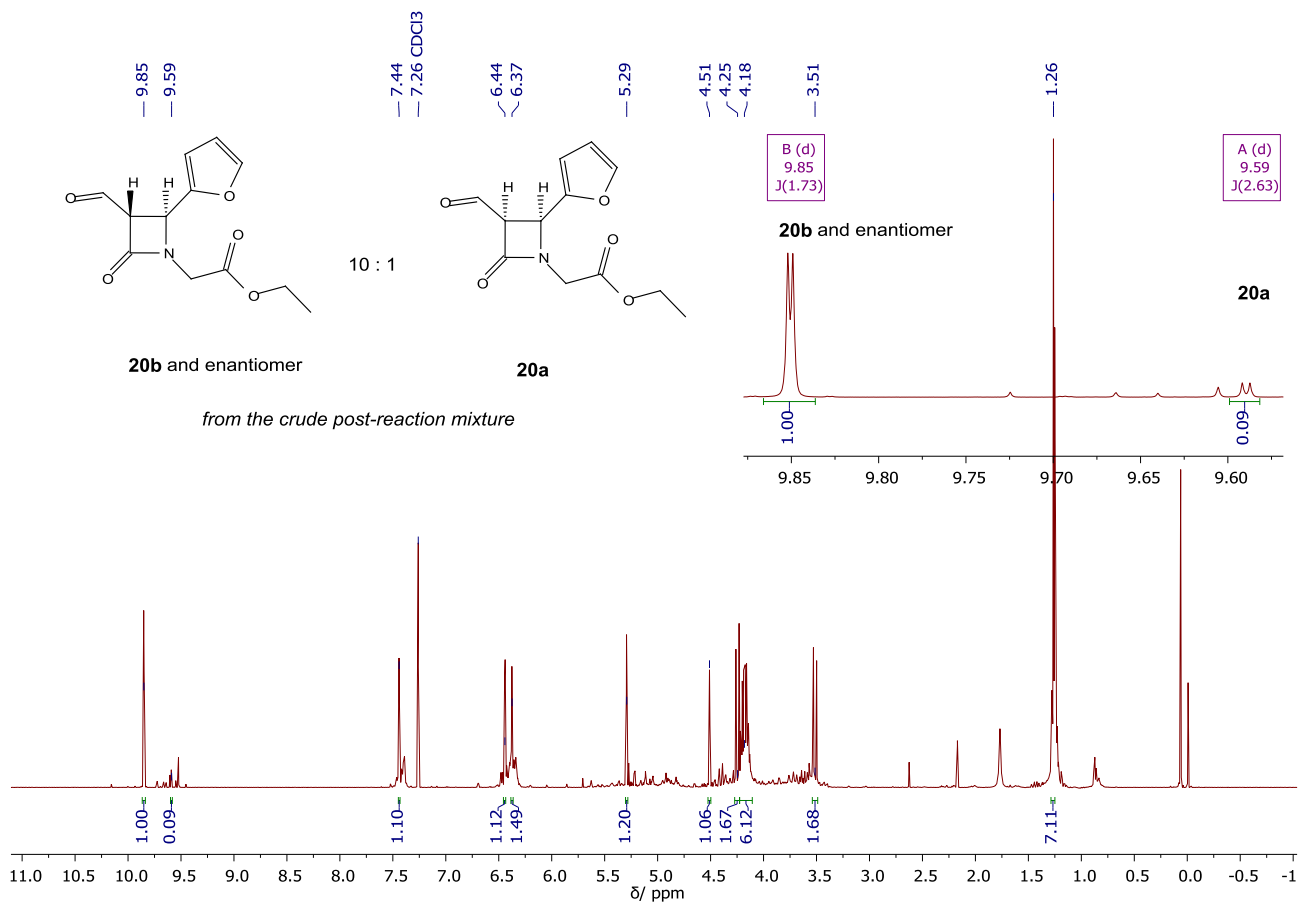
Signals in **17** were assigned using ^1H TOCSY experiment:



Stereochemistry of **17** was confirmed by ^1H - ^1H NOESY experiment:

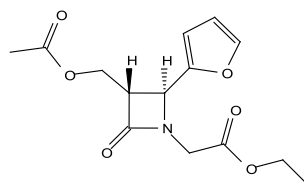






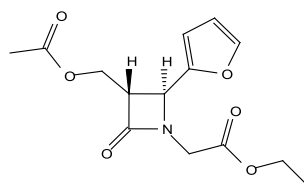
1H NMR (600 MHz)

CDCl₃

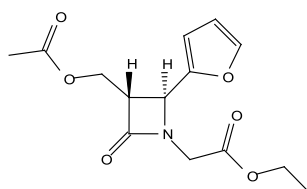
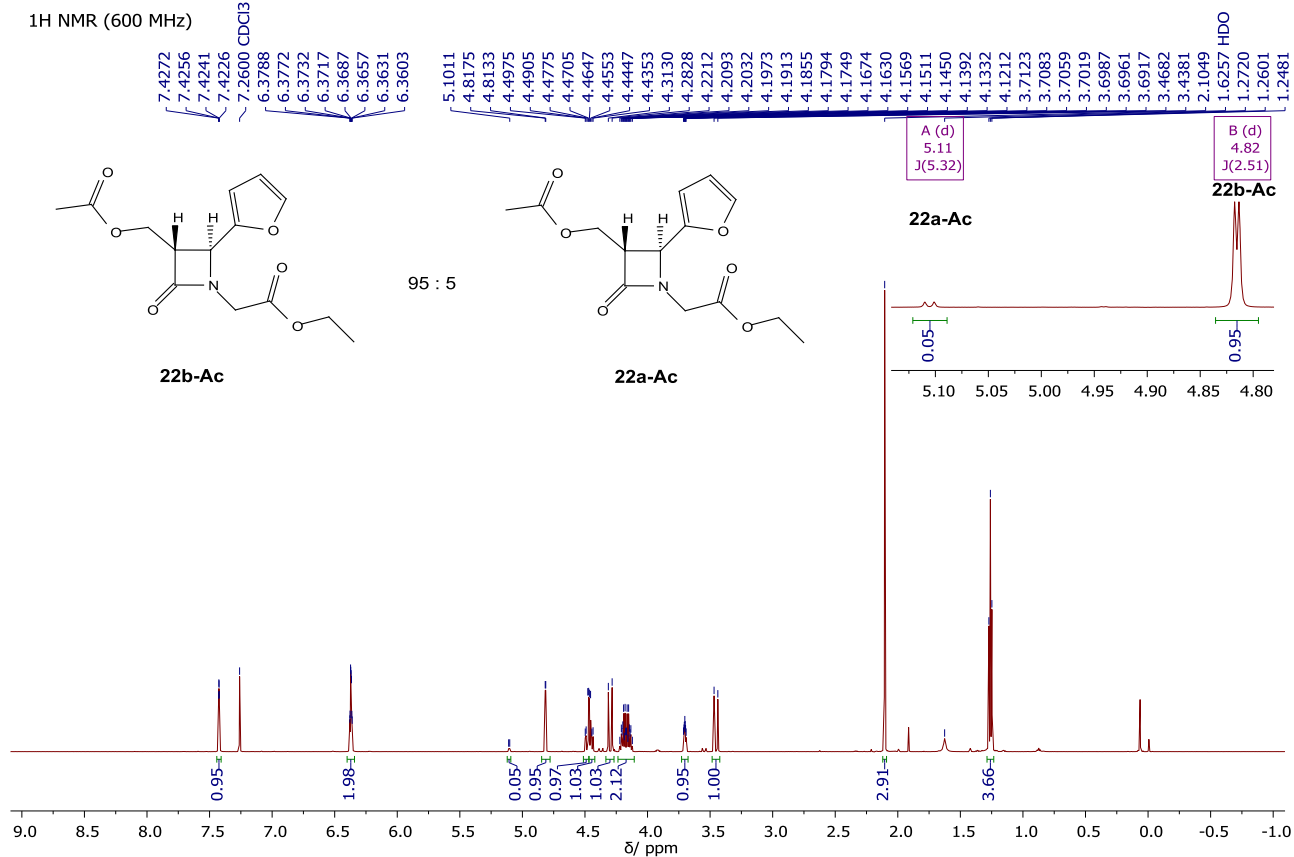


22b-Ac

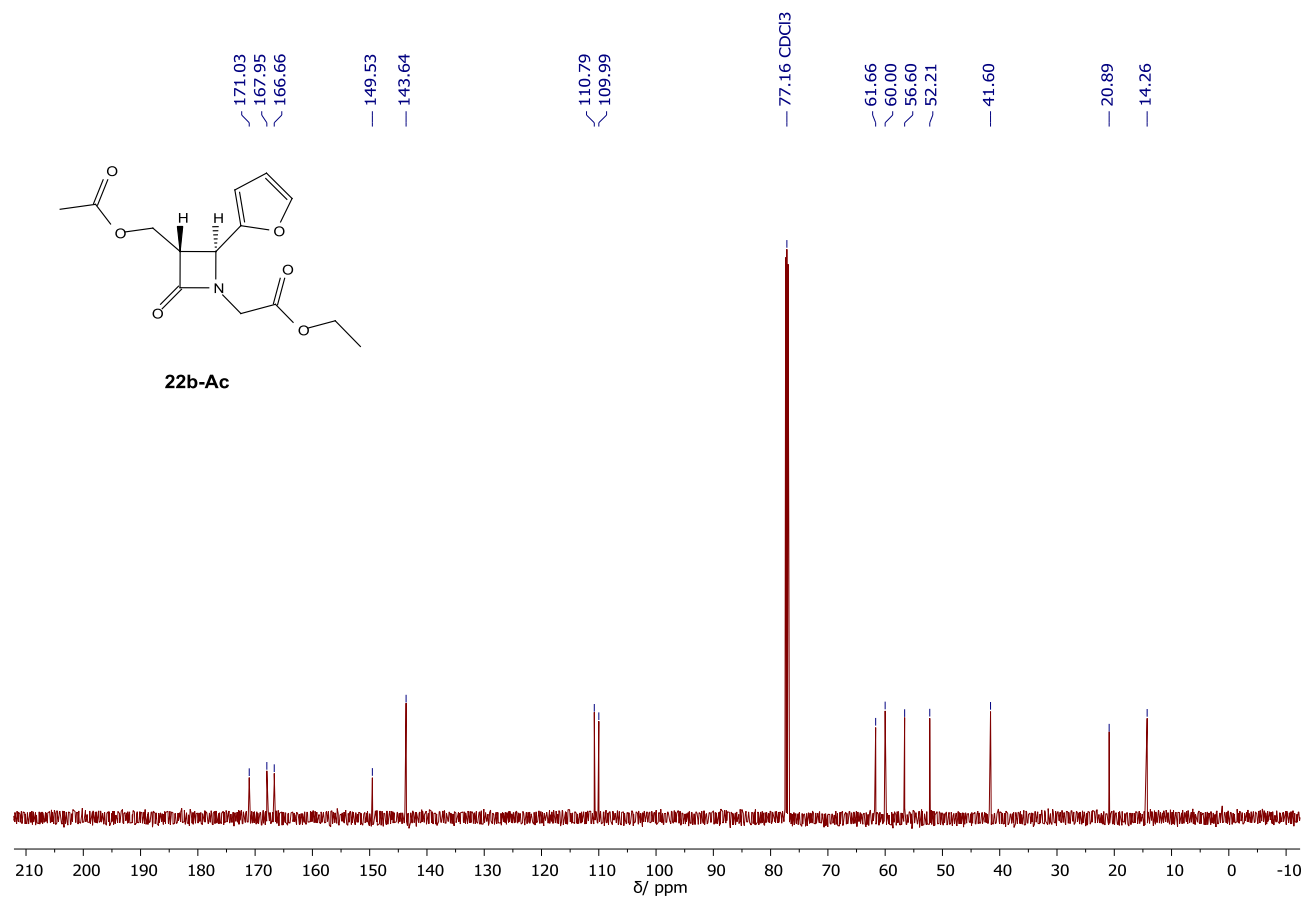
95 : 5

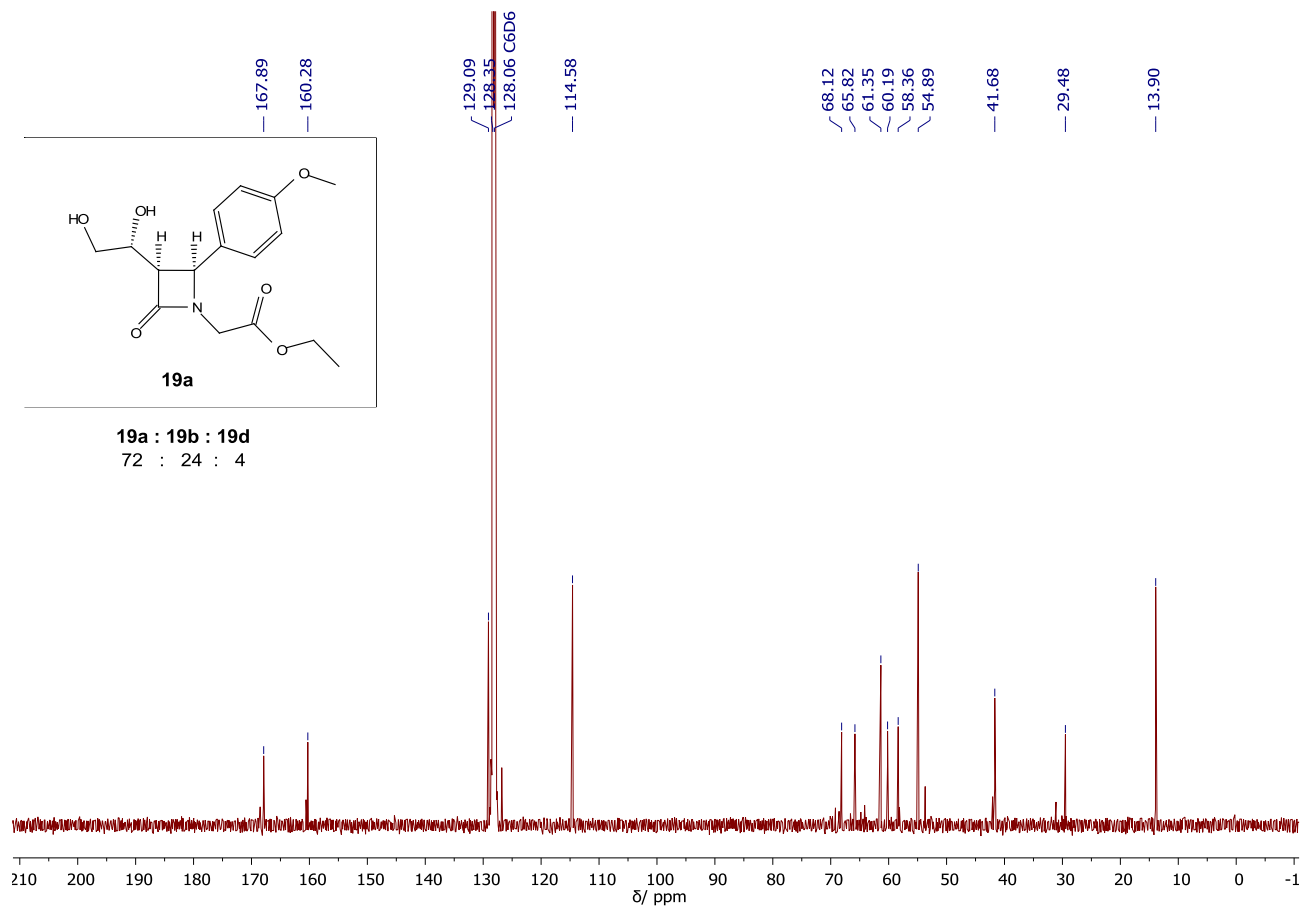
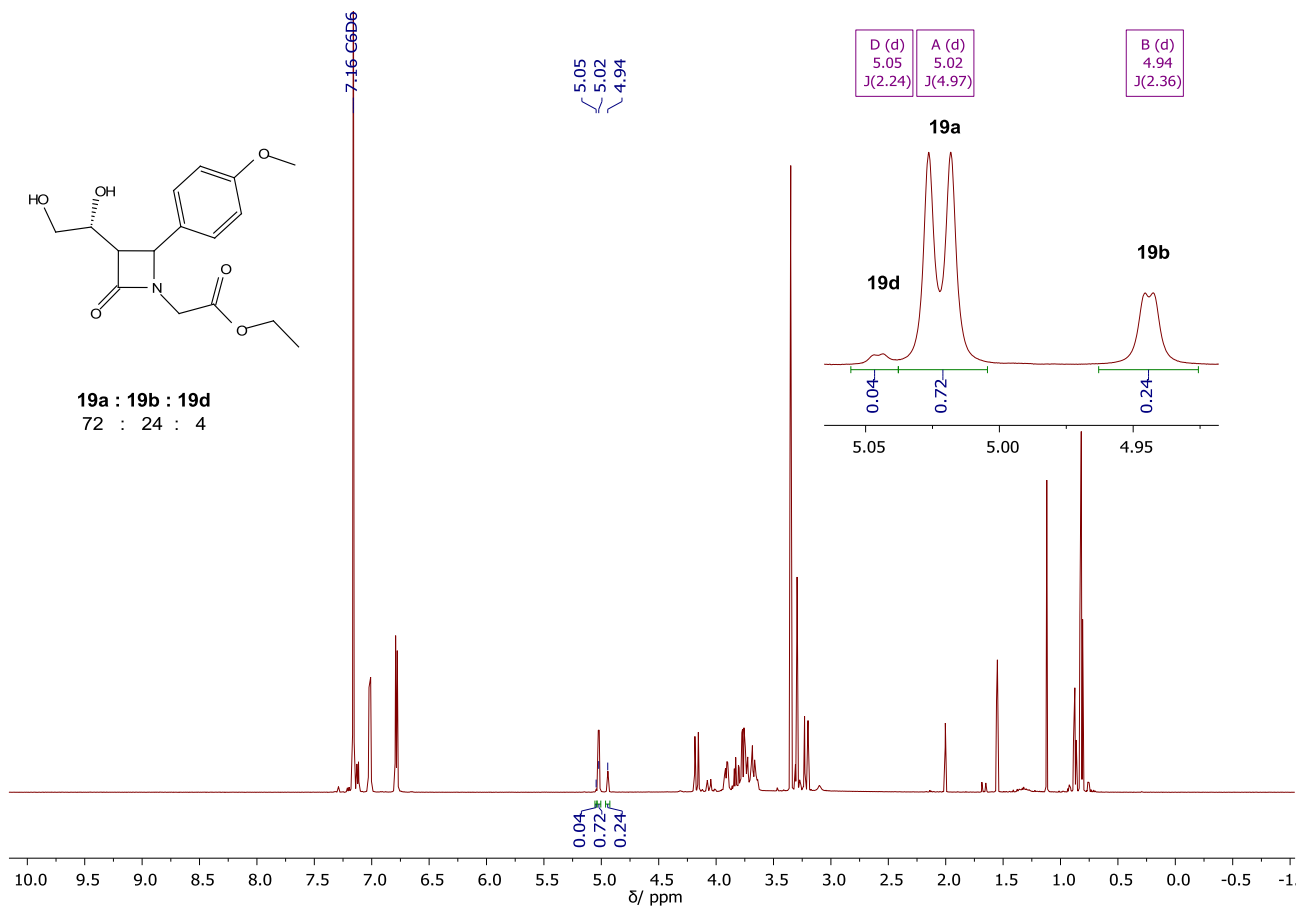


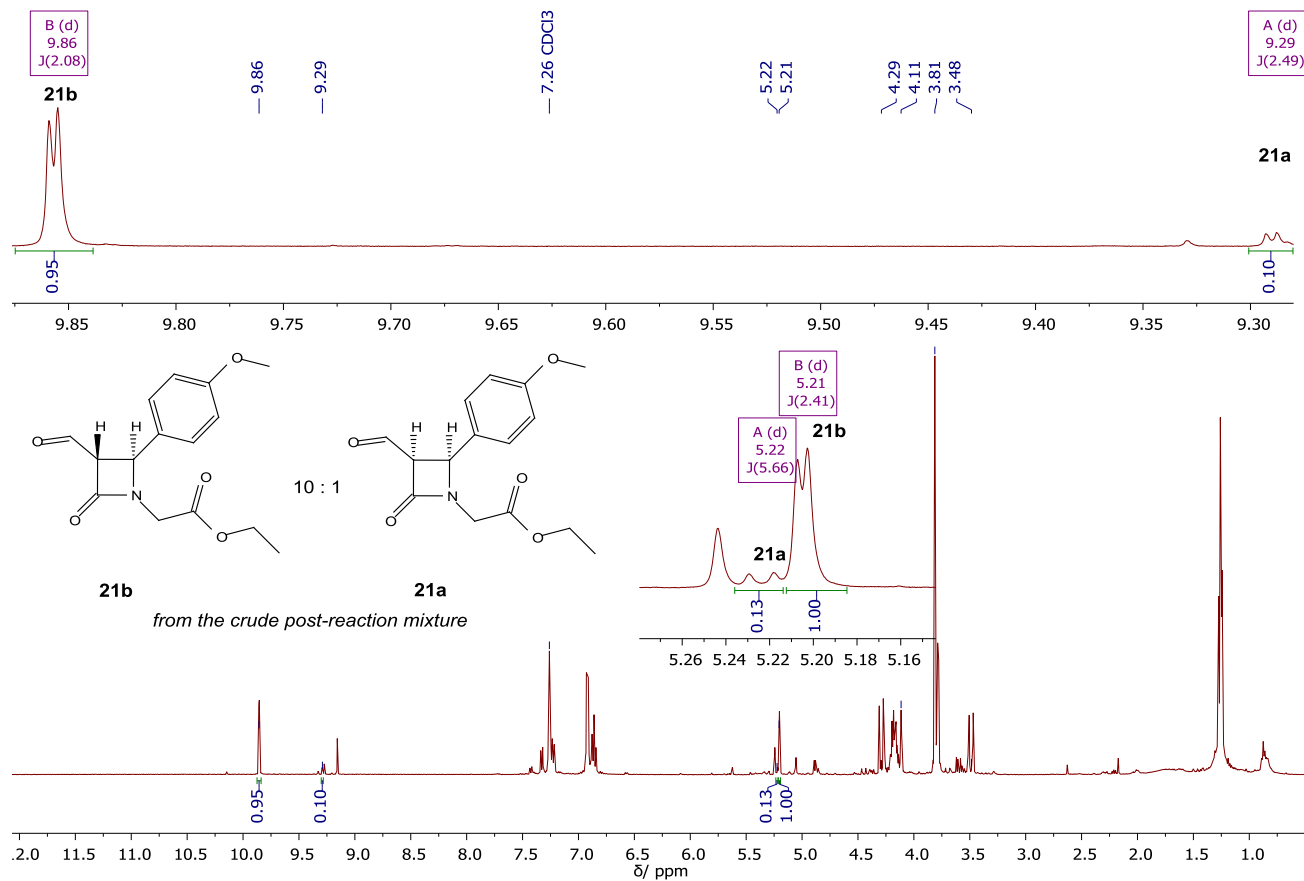
22a-Ac

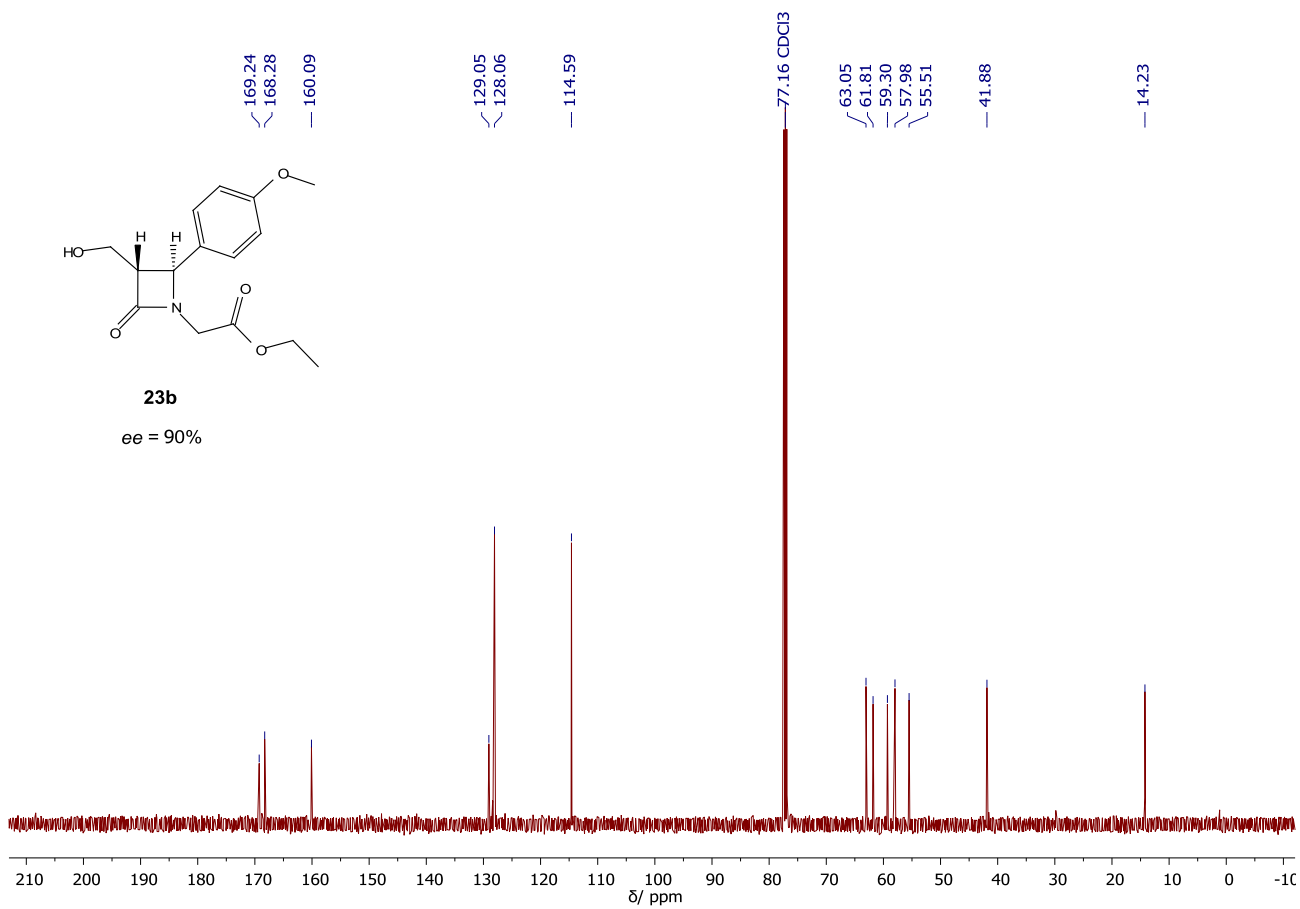
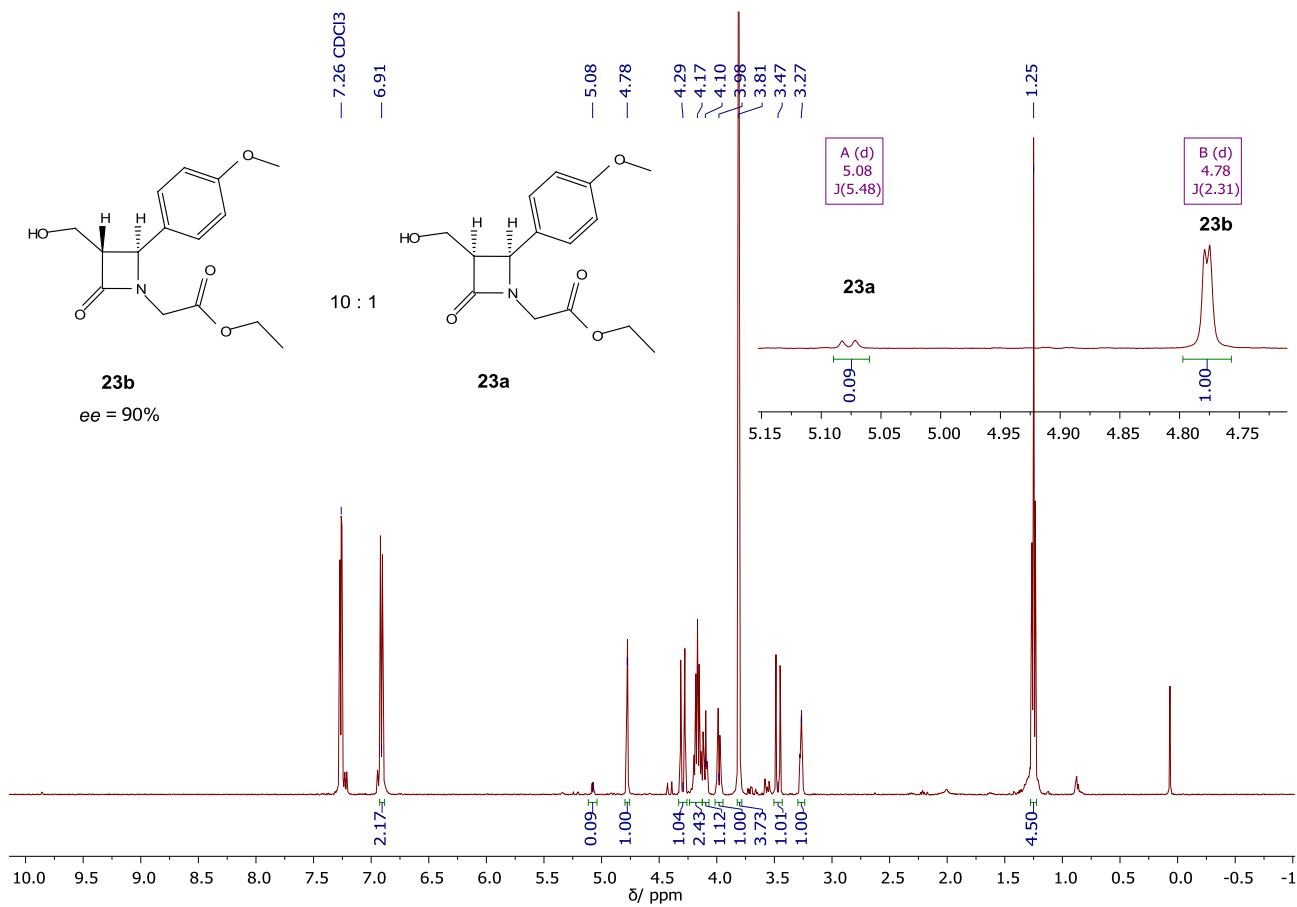


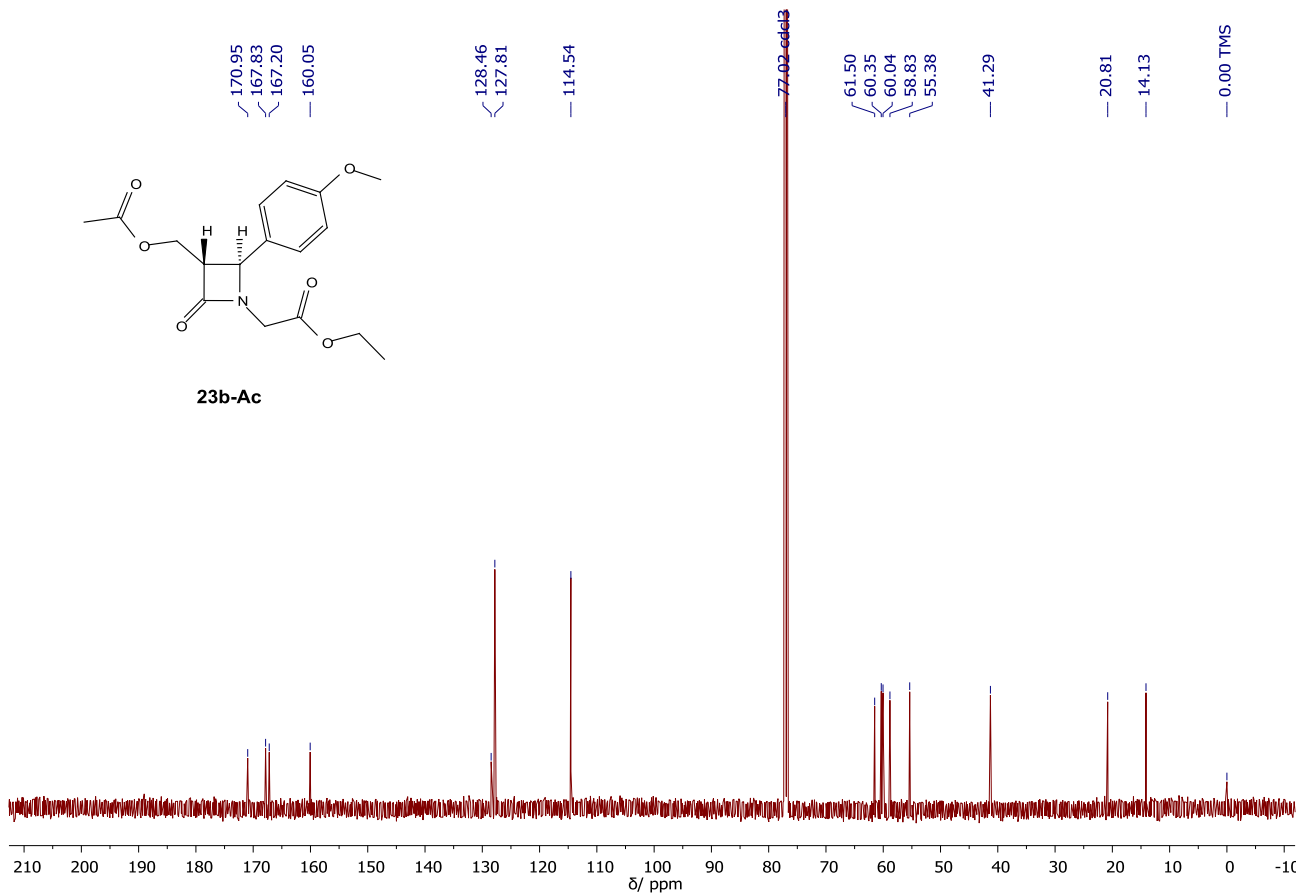
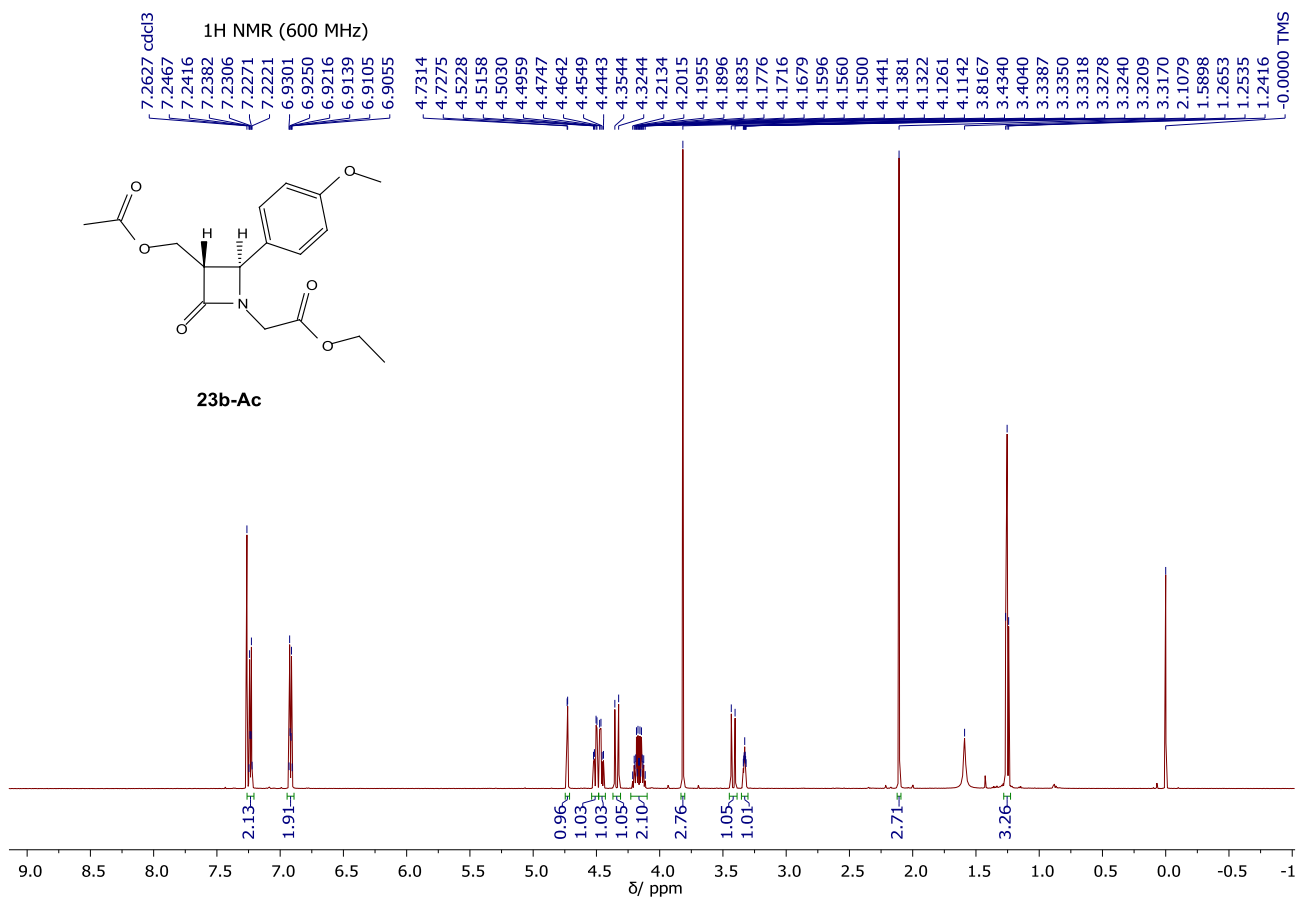
22b-Ac

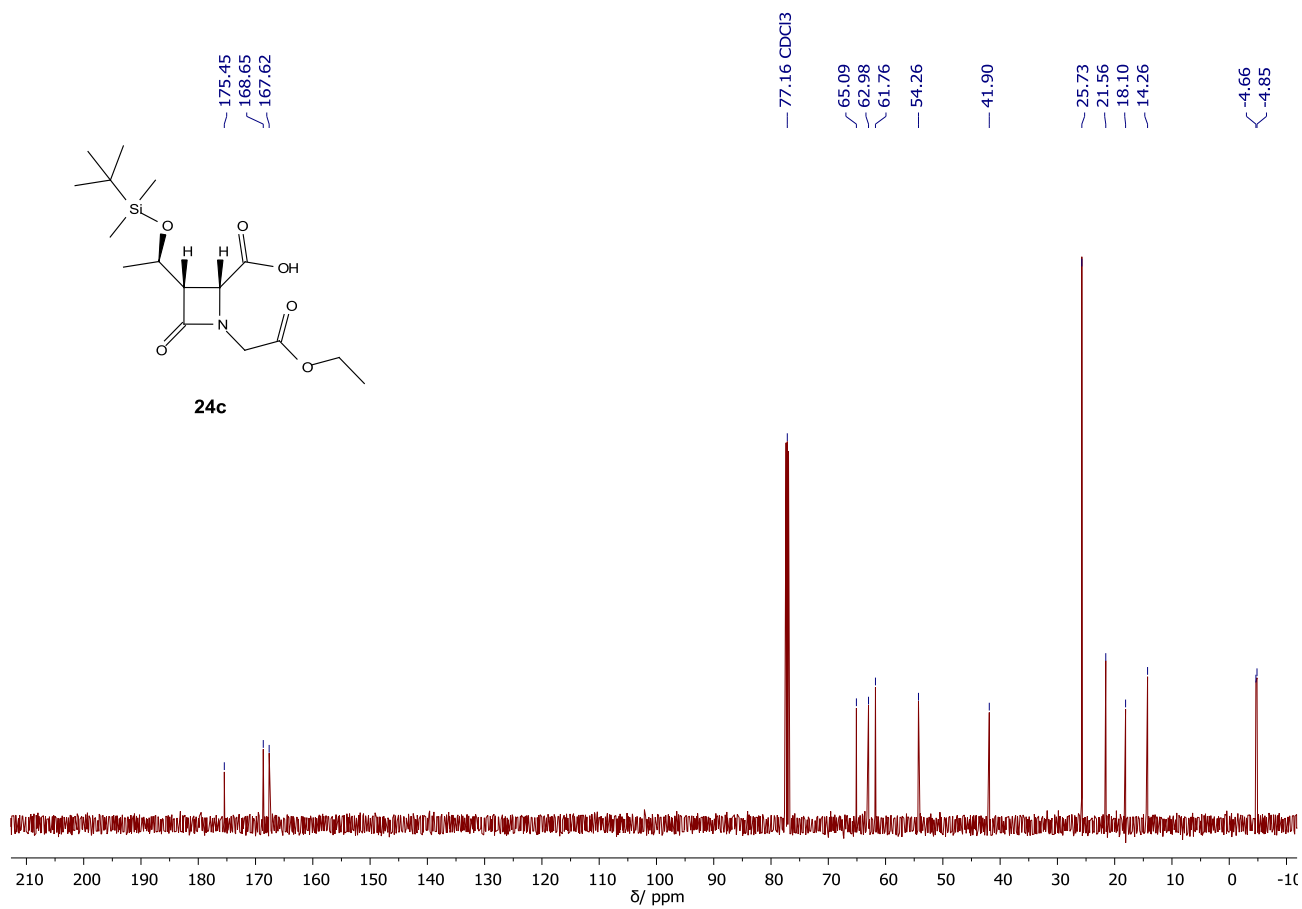
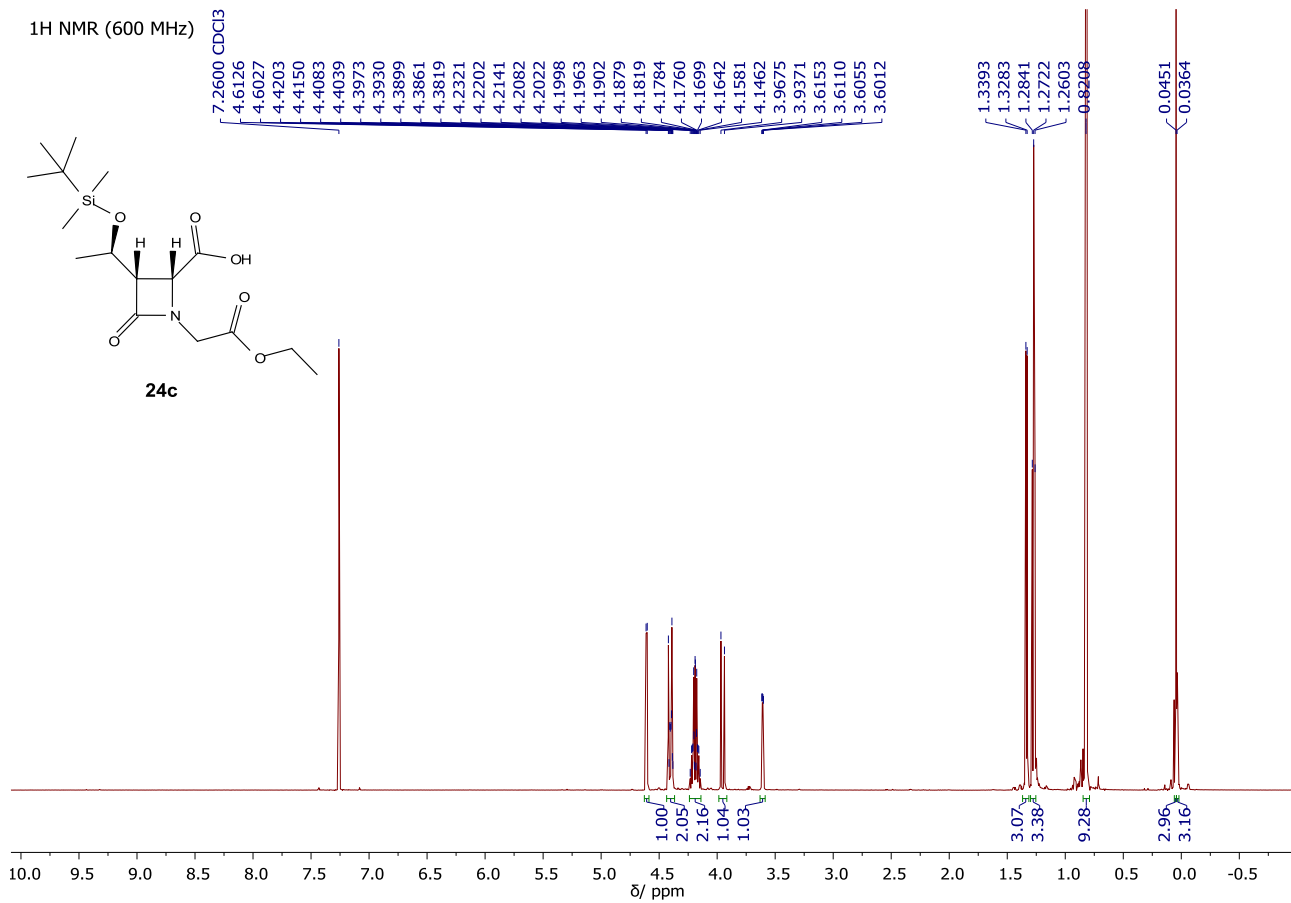


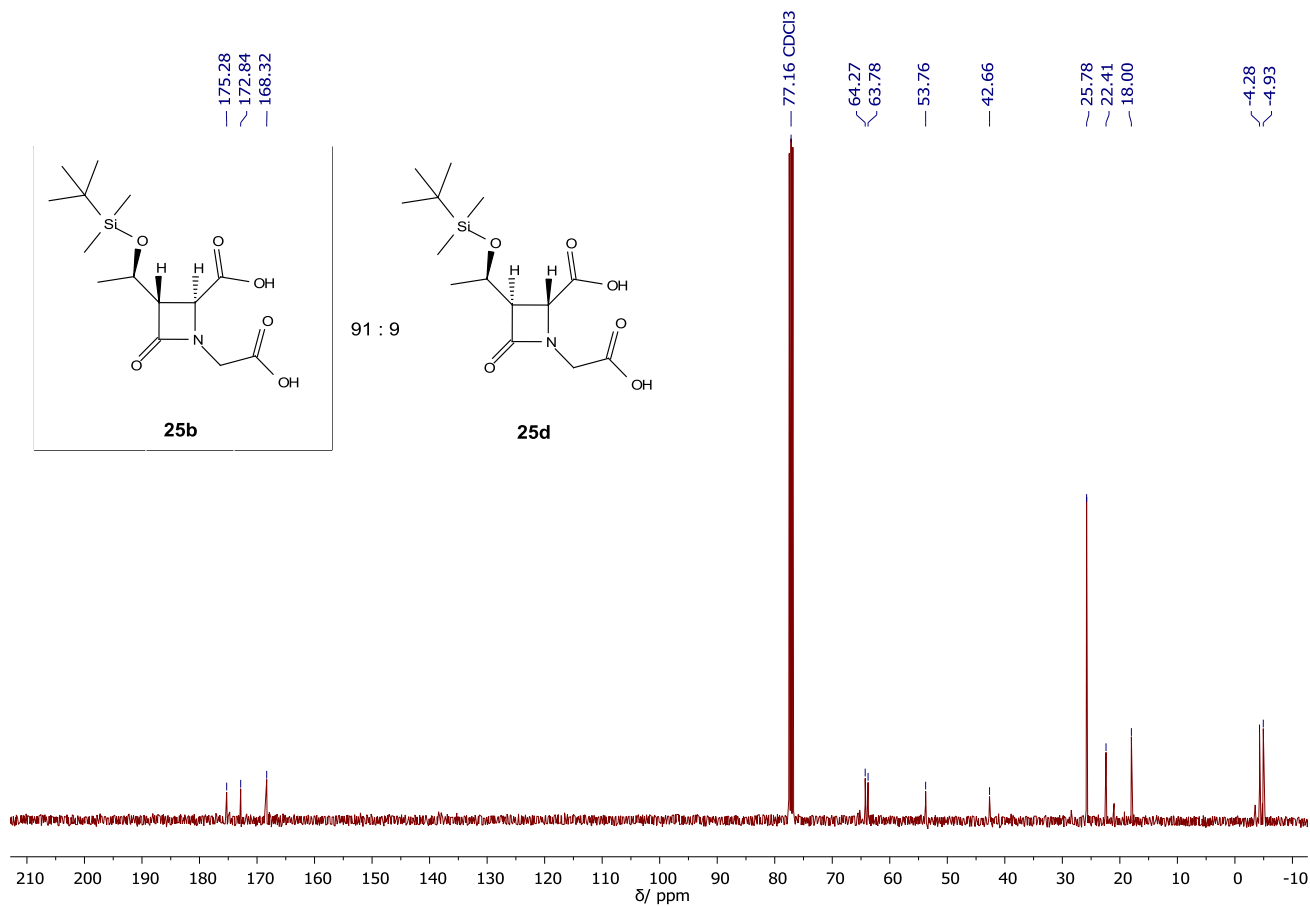
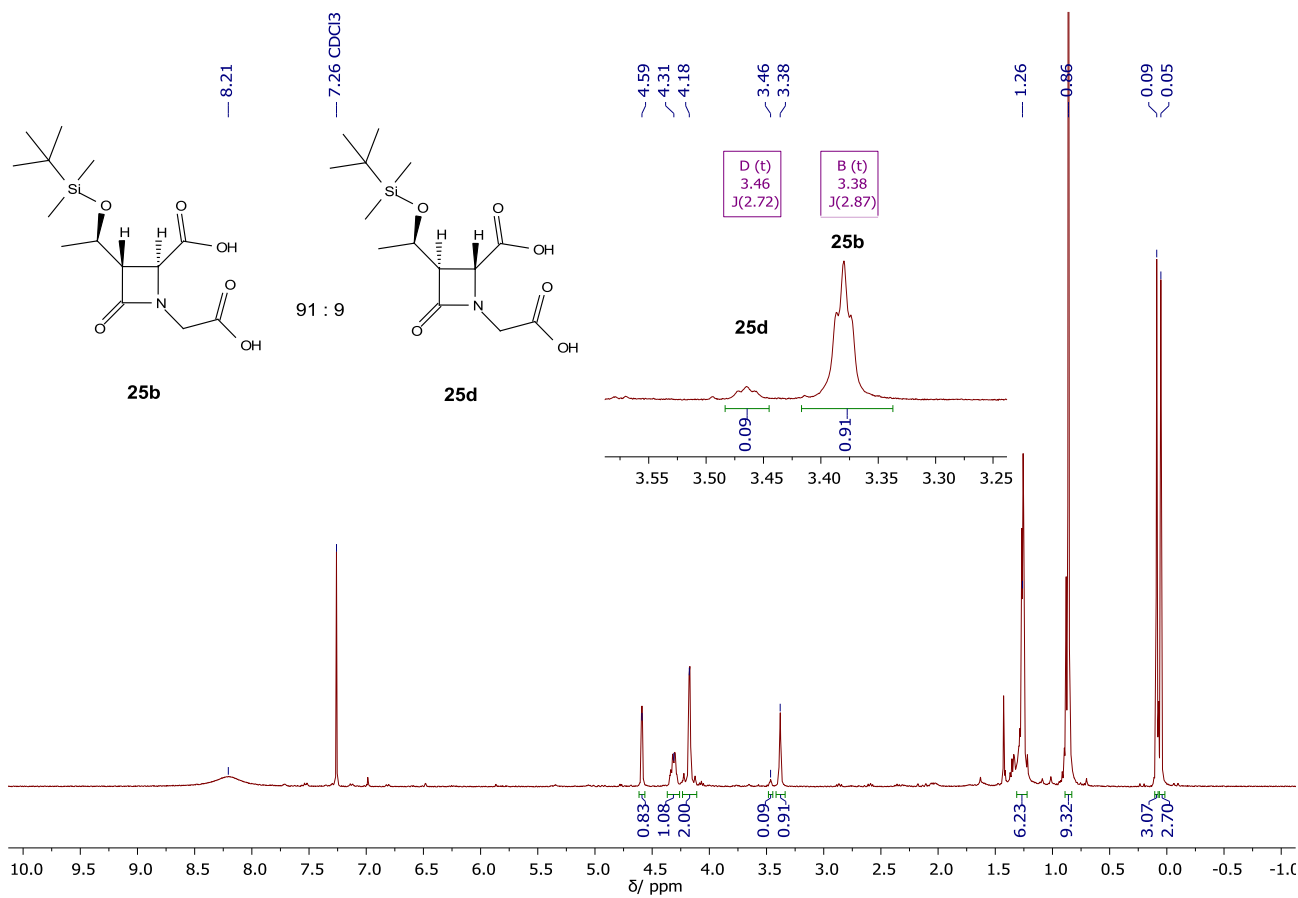




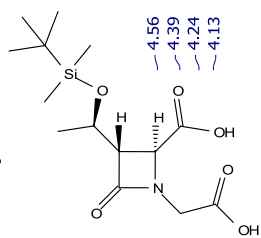




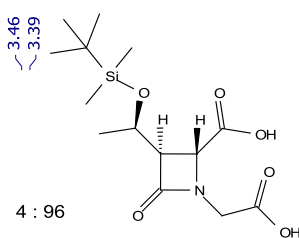




from the crude post-reaction mixture

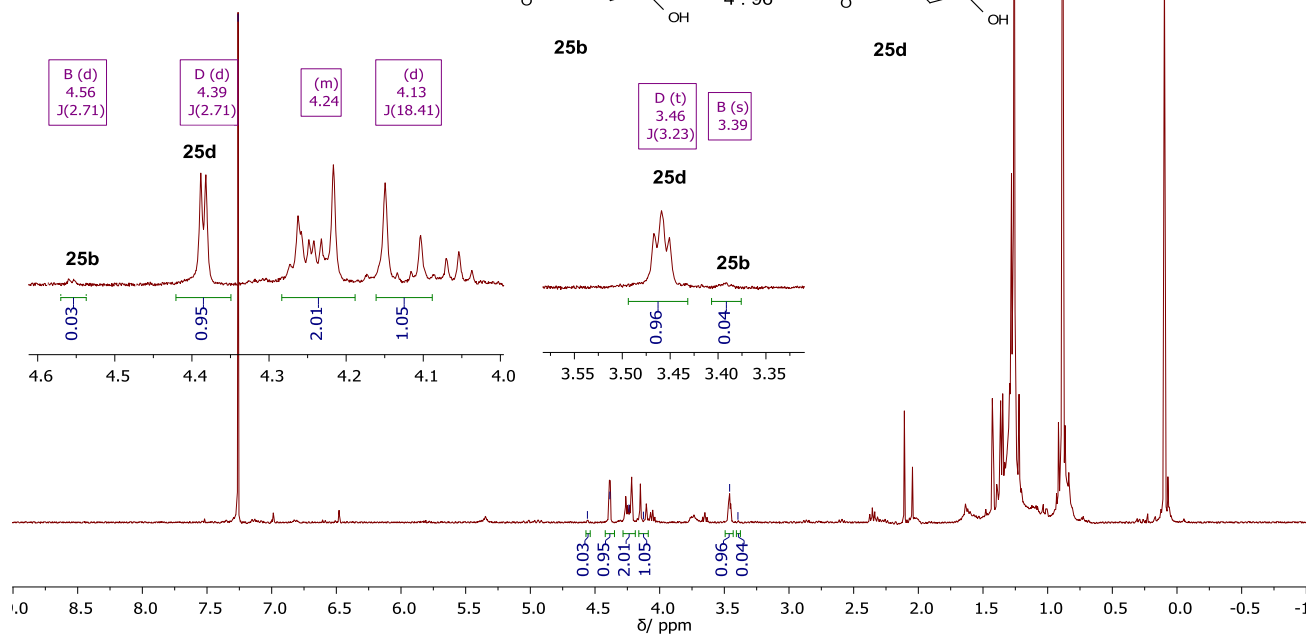


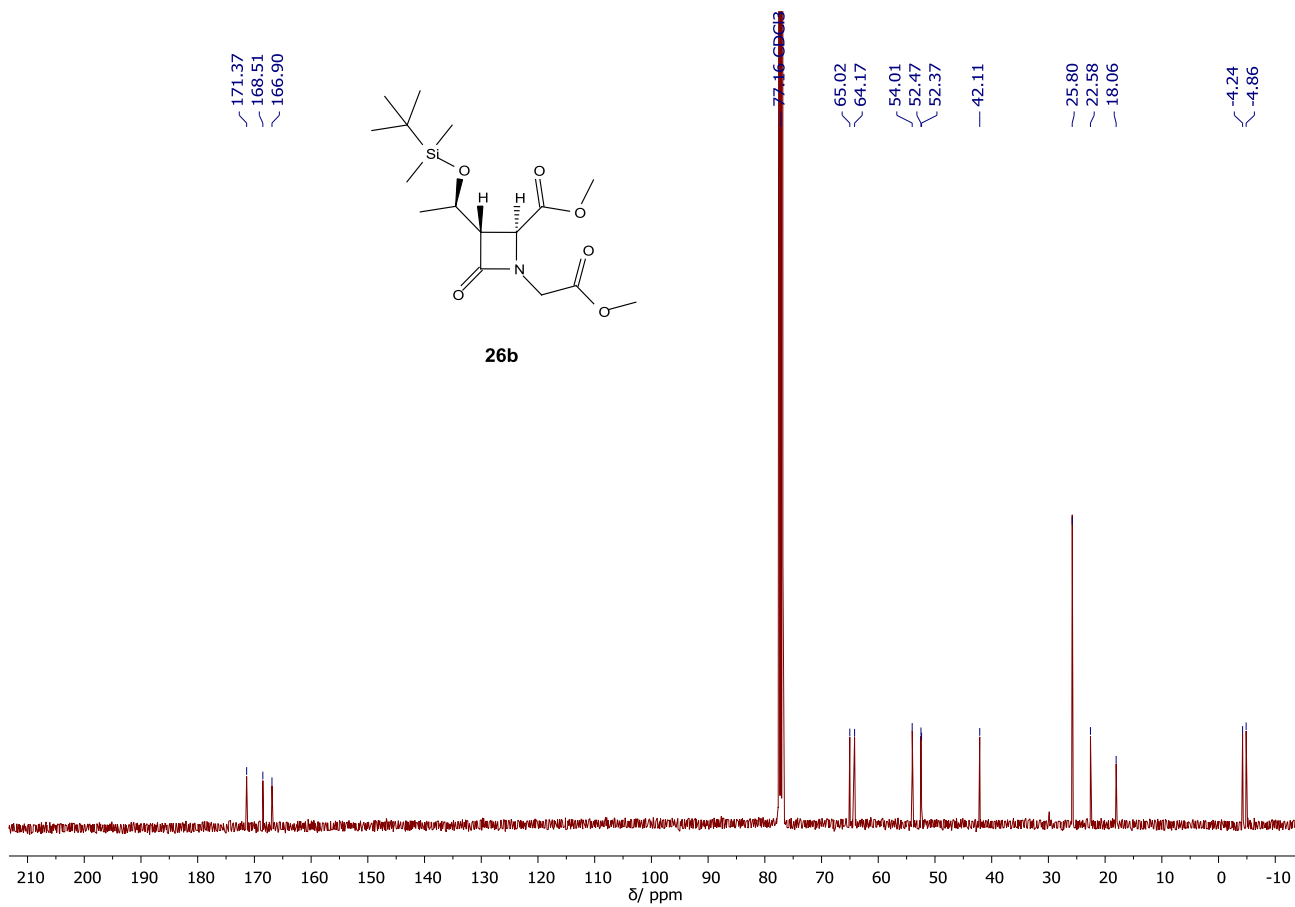
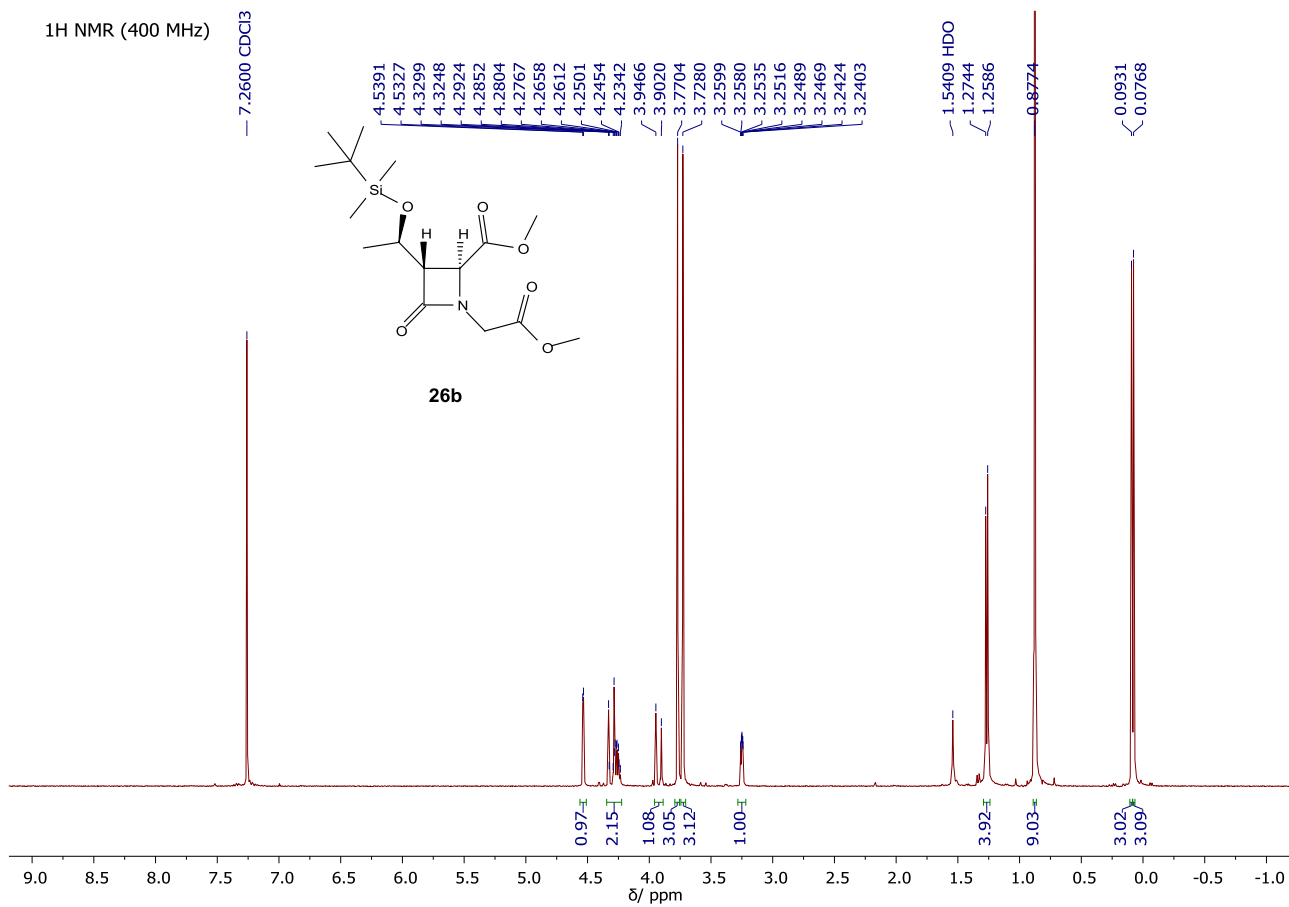
25b

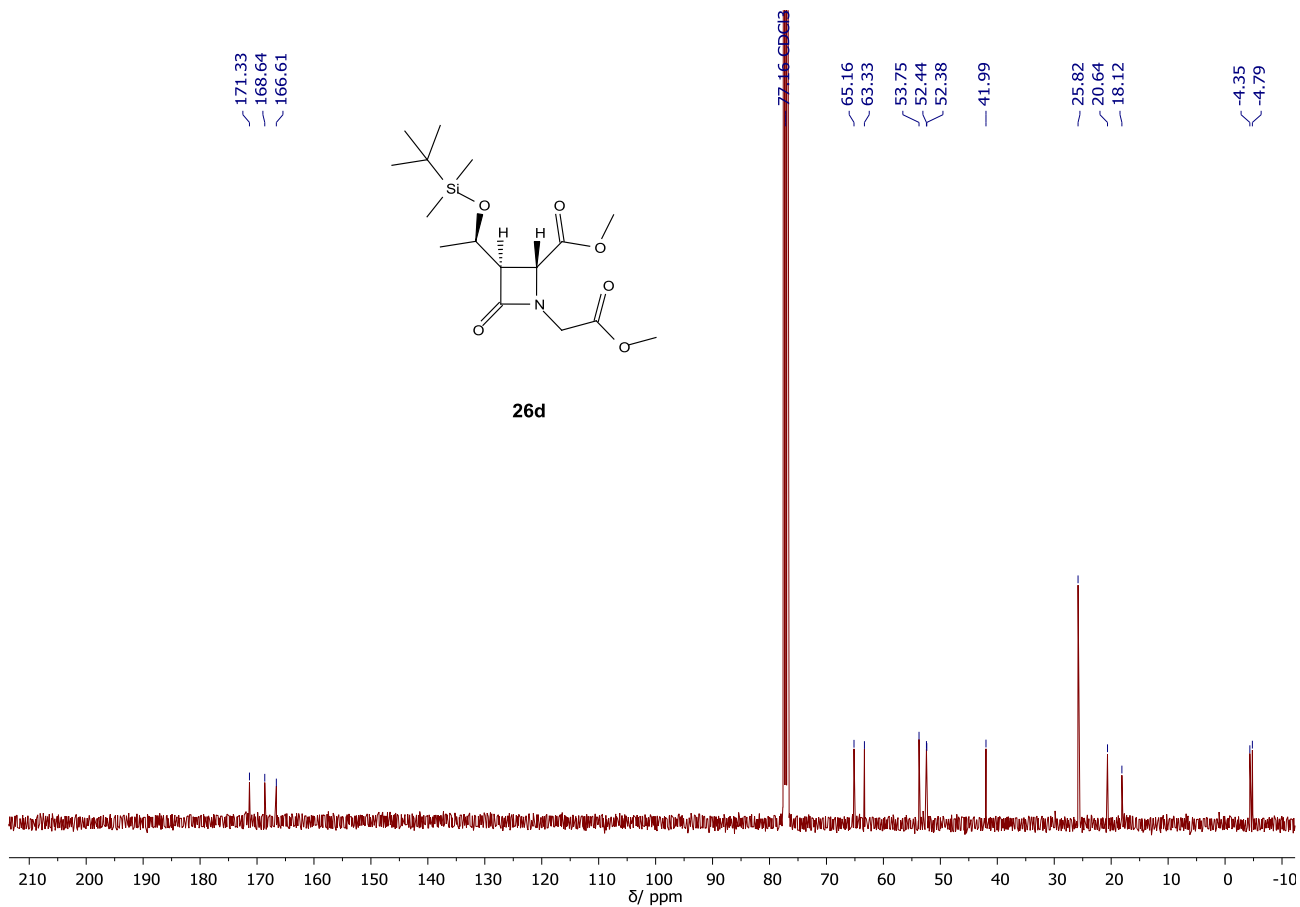
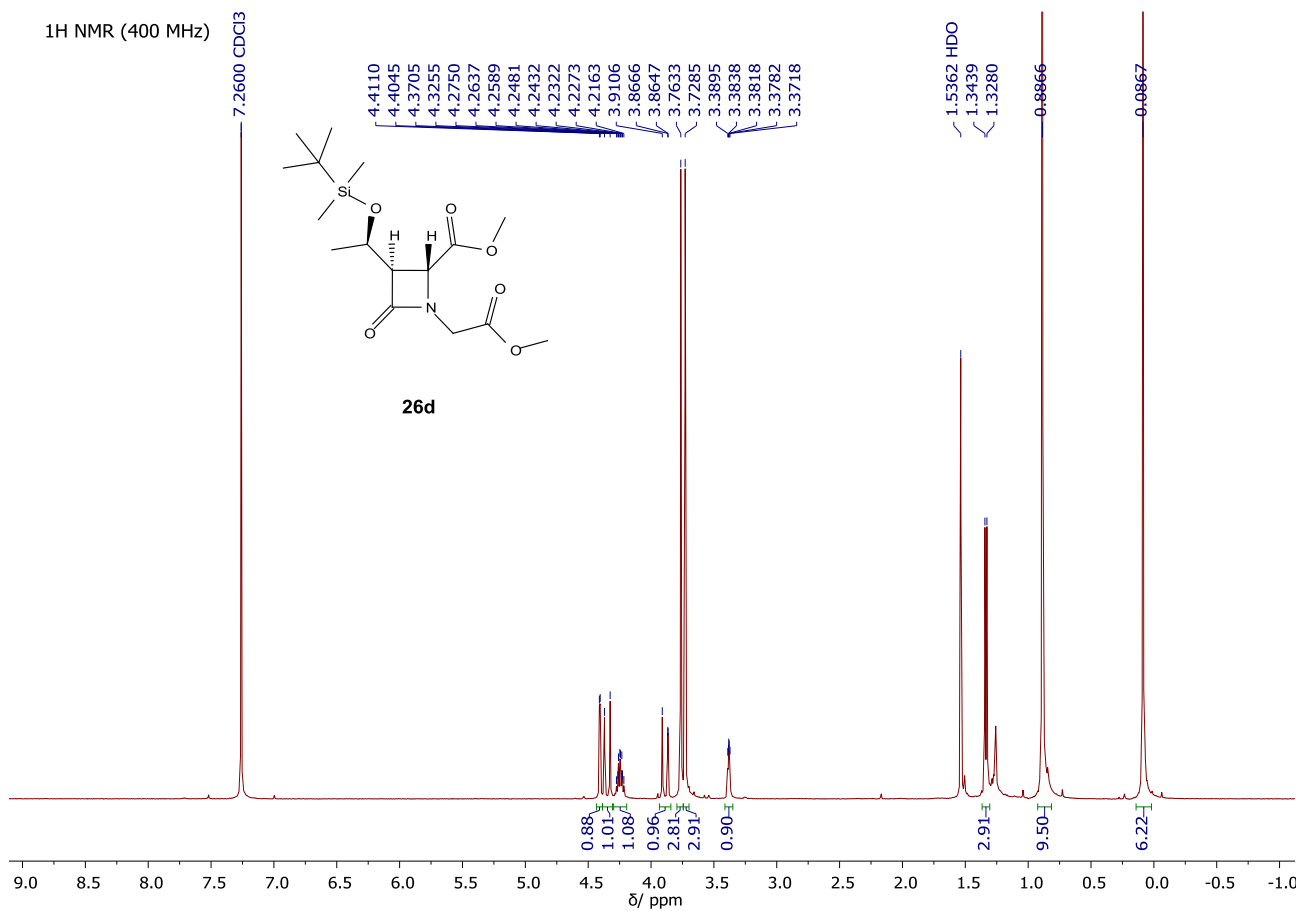


4 : 96

25d







¹H NMR (400 MHz)

— 7.2600 CDCl₃

— 6.0030

4.2537
4.2386
4.2244
4.2094
4.2049
4.2007
4.1872
4.1832
4.1692
4.1651
4.1515
4.1474
4.1383
4.0181
3.2500
3.2380

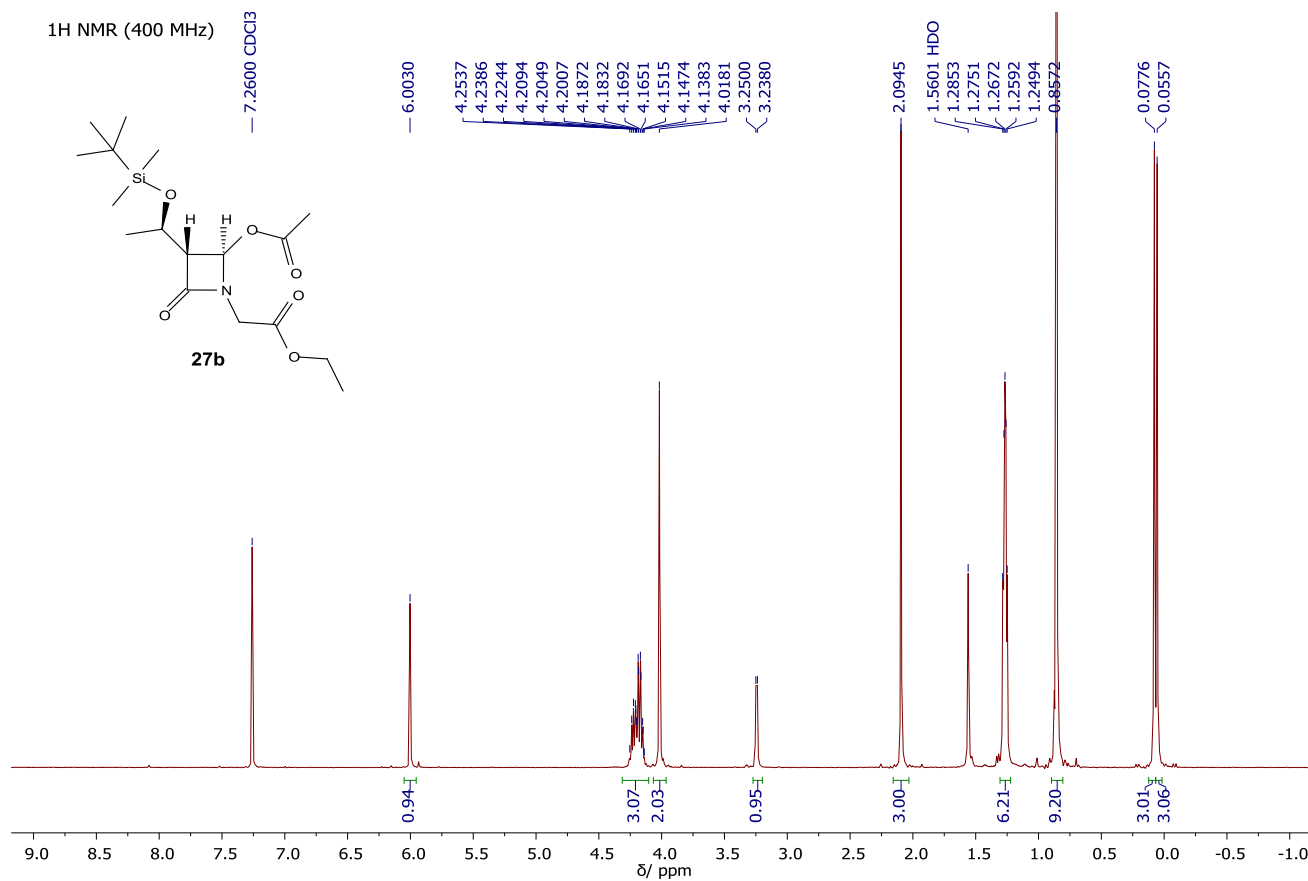
2.0945

1.5601 H₂O
1.2853
1.2751
1.2672
1.2592
1.2494

0.8572

0.0776
0.0557

27b



171.89
168.25
166.82

79.29
77.16 CDCl₃

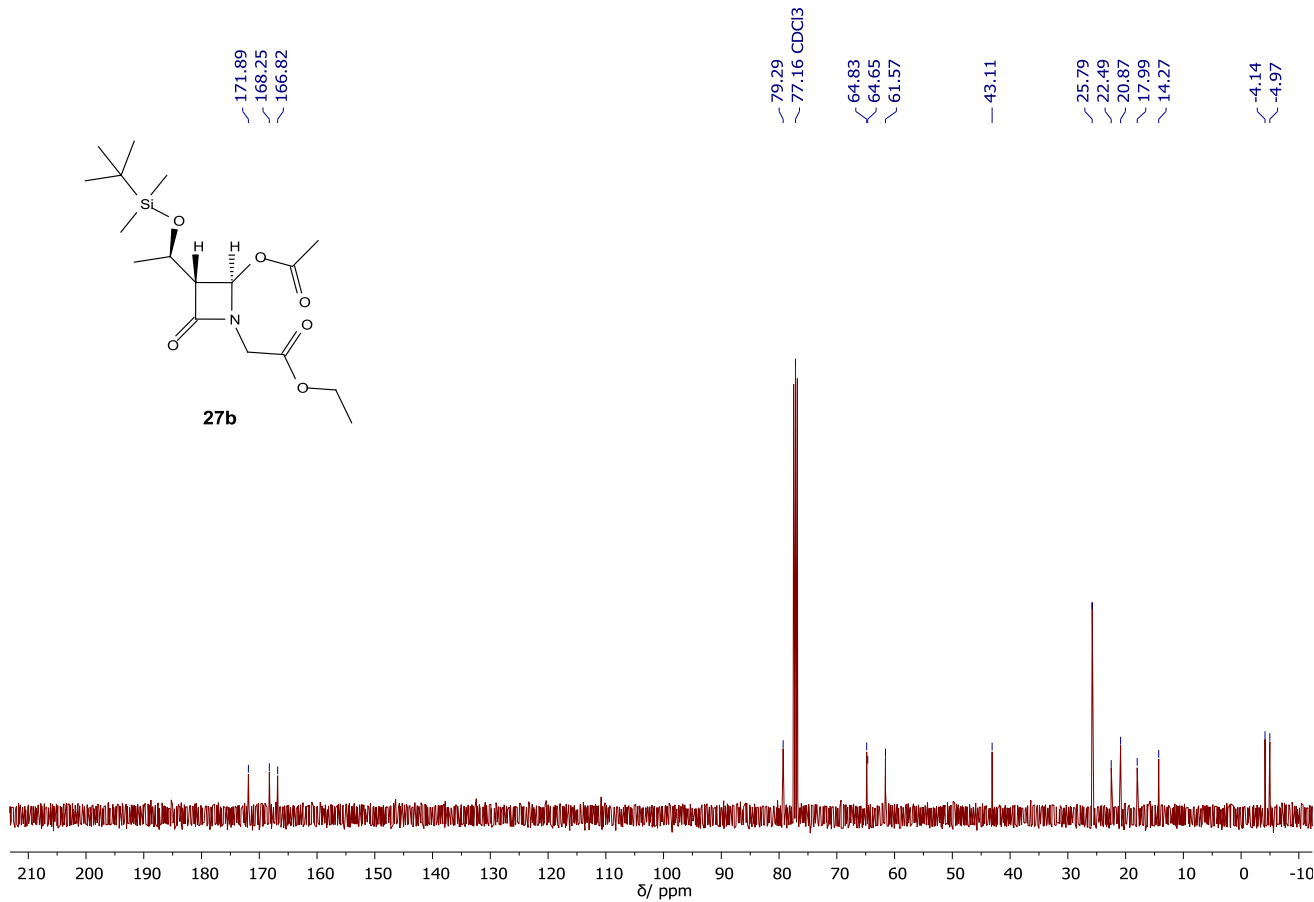
64.83
64.65
61.57

43.11

25.79
22.49
20.87
17.99
14.27

4.14
4.97

27b



References

- [1] CONFLEX 7, Conflex Corp., Japan, **2012**. H. Goto and E. Osawa, *J. Am. Chem. Soc.*, **1989**, 111, 8950–8951. H. Goto and E. Osawa, *J. Chem. Soc., Perkin Trans. 2*, **1993**, 187–198.
- [2] M. J. Frisch, G. W. Trucks, H. B. Schlegel, G. E. Scuseria, M. A. Robb, J. R. Cheeseman, G. Scalmani, V. Barone, B. Mennucci, G. A. Petersson, H. Nakatsuji, M. Caricato, X. Li, H. P. Hratchian, A. F. Izmaylov, J. Bloino, G. Zheng, J. L. Sonnenberg, M. Hada, M. Ehara, K. Toyota, R. Fukuda, J. Hasegawa, M. Ishida, T. Nakajima, Y. Honda, O. Kitao, H. Nakai, T. Vreven, J. A. Montgomery Jr., J. E. Peralta, F. Ogliaro, M. Bearpark, J. J. Heyd, E. Brothers, K. N. Kudin, V. N. Staroverov, R. Kobayashi, J. Normand, K. Raghavachari, A. Rendell, J. C. Burant, S. S. Iyengar, J. Tomasi, M. Cossi, N. Rega, J. M. Millam, M. Klene, J. E. Knox, J. B. Cross, V. Bakken, C. Adamo, J. Jaramillo, R. Gomperts, R. E. Stratmann, O. Yazyev, A. J. Austin, R. Cammi, C. Pomelli, J. W. Ochterski, R. L. Martin, K. Morokuma, V. G. Zakrzewski, G. A. Voth, P. Salvador, J. J. Dannenberg, S. Dapprich, A. D. Daniels, Ö. Farkas, J. B. Foresman, J. V. Ortiz, J. Cioslowski, D. J. Fox, Gaussian 09, revision D.01, Gaussian, Inc., Wallingford, CT, **2013**.
- [3] G. M. Sheldrick, SHELXL-2014. Program for the Refinement of Crystal Structures from Diffraction Data, University of Göttingen, Germany, **2014**.