Supporting information 1

N-Benzyl Derivatives of Long-Chained 4-Amino-7-chloro-quionolines as Inhibitors of Pyocyanin Production in *Pseudomonas aeruginosa*

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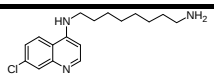
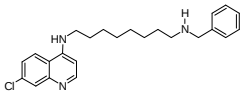
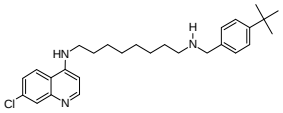
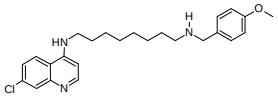
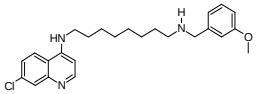
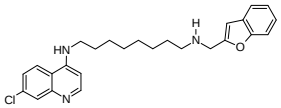
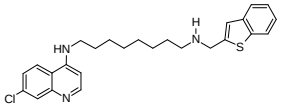
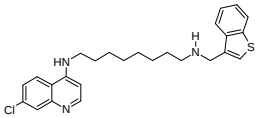
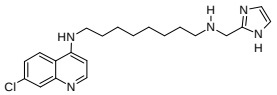
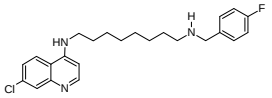
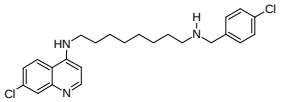
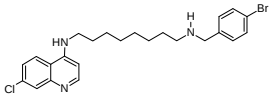
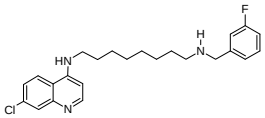
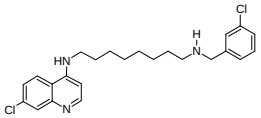
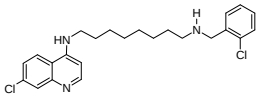
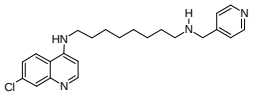
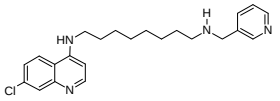
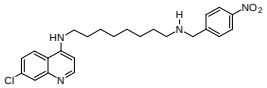
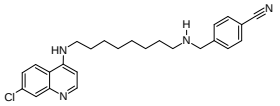
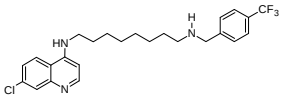
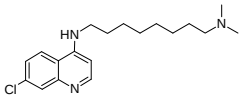
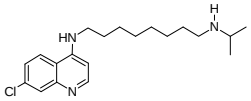
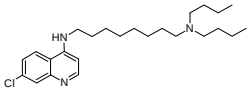
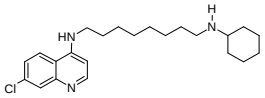
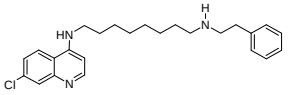
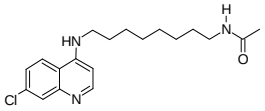
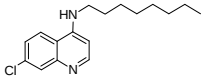
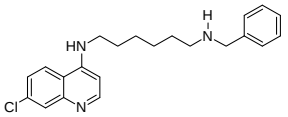
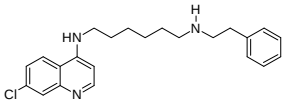
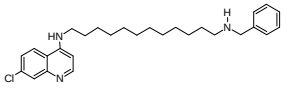
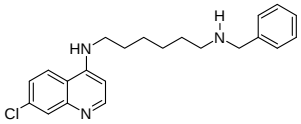
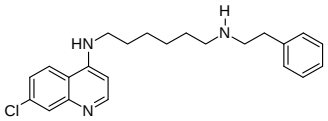
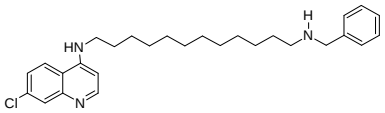
Table S1. Antibacterial and cytotoxic effects of investigated compounds on *P. aeruginosa* PAO1 and human lung fibroblast cell line (MRC5), respectively.

Comp.	Structure	MIC (mM) [a]	IC_{50} (µM) [b]
1		2	12.5
7		4	5
8		4	4
9		4	12.5
10		4	5
11		4	4
12		4	5
13		4	1
14		4	30
15		4	5
16		2	5
17		4	5
18		4	4
19		4	5
20		4	5
21		4	10

22		4	10
23		4	5
24		4	5
25		4	1
26		4	40
27		4	10
28		4	10
29		4	10
30		4	5
5		4	50
6		4	20
33		4	7.5
34		4	7.5
35		>4	2.5

[a] Minimal inhibitory concentration (MIC) corresponds to the lowest concentration of tested compound that causes inhibition of visible bacterial growth; [b] IC_{50}-concentration of the compound that inhibits 50% cell viability.

Table S2. Effects of the compounds **33 - 35** on pyocyanin (PYO) production, activities of QS receptors and biofilm formation in *P. aeruginosa*.

Comp.	Structure	PYO[a] (%)	LasR[a] (%)	RhlR[a] (%)	PqsR[a] (%)	$BFIC_{50}$[b] (μM)
33		56±5	93±2	81±6	64±3	n.a.
34		75±9	127±1	92±2	47±2	n.a.
35		17±4	44±2	52±6	19±1	50

[a]Activity of the compounds at 50 μM concentration; Values are presented as mean ± SD;
[b]$BFIC_{50}$ – concentration of compound that inhibited biofilm formation by 50%; n.a. – not active.

Table S3. Specific amplification primer sets for QS genes and reference gene (*RplU*) for *P. aeruginosa.*

Gene symbol	Type of primer	Primer sequence (5'-3')	Amplicon size (bp)
lasR	LasR-F	TGGATGCTCAAGGACTACGC	160 bp
	LasR-R	CCGAGCAGTTGCAGATAACC	
lasI	LasI-F	GCACATCTGGGAACTCAGC	164 bp
	LasI-R	TCATCTTCTCCACGCCTACG	
rhlR	RhlR-F	CTCCTCGGAAATGGTGGTC	176 bp
	RhlR-R	GCTCGAAGCTGGAGATGTTC	
rhlI	RhlI-F	CTACCTGTGCAGCGAAACC	195 bp
	RhlI-R	CCGTTGCGAACGAAATAGC	
pqsR	PqsR-F	CTGATCTGCCGGTAATTGG	143 bp
	PqsR-R	ATCGACGAGGAACTGAAGA	
pqsA	PqsA-F	CAATACACCTCGGGTTCCAC	154 bp
	PqsA-R	TGCCATAGCCGAAGAACATC	
rplU	rplU-F	CGAATTCCTCAAGGTCGAGA	206 bp
	rplU-R	GCTTCATGTGGTGCTTACGA	

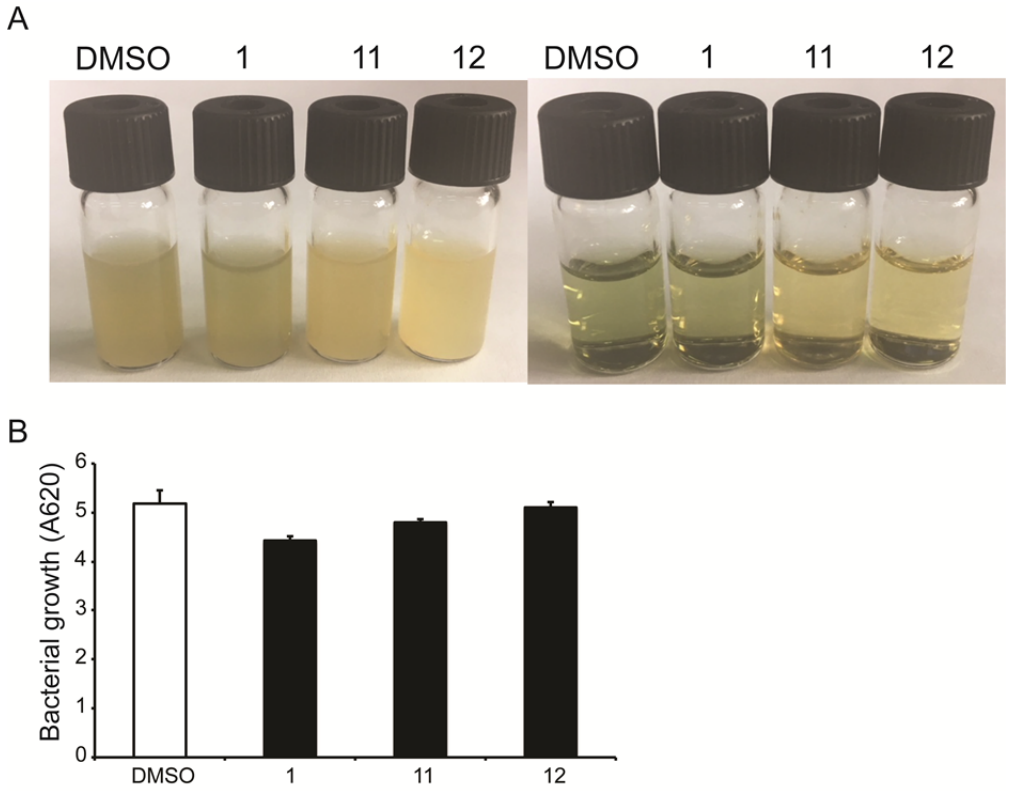


Figure S1. Inhibition of pyocyanin production in *P. aeruginosa* PA14 after 24h incubation with 0.1% DMSO, **1**, **11**, and **12** at a concentration of 50 μM. A) Left panel demonstrates bacterial cultures and the right panel shows respective supernatants. B) Bacterial growth in the presence of tested compounds. The values were plotted relative to a DMSO-treated control and presented as mean ± SD

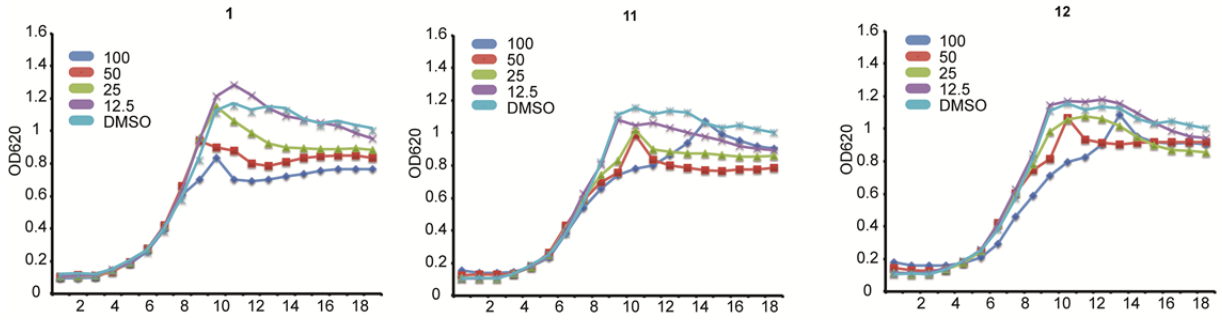


Figure S2. *P. aeruginosa* PAO1 growth curves cultured in the presence of selected compounds.

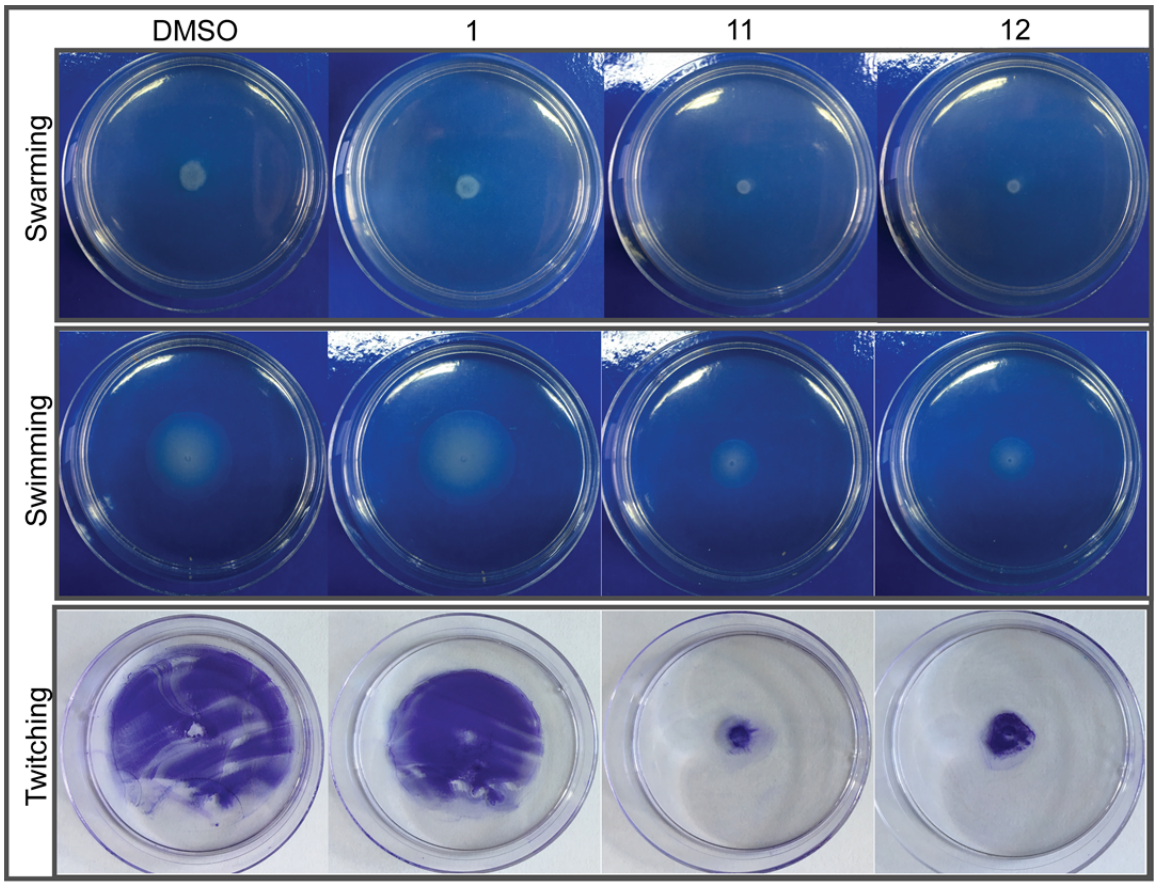


Figure S3: Representative images of the effects of **1**, **11** and **12** (50 µM) on *P. aeruginosa* motility.

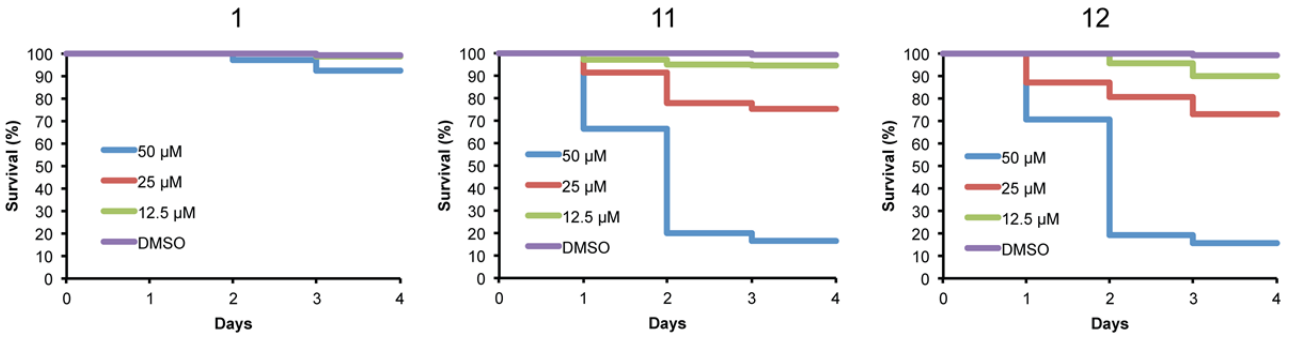


Figure S4: Toxicity of select compounds on *Caenorhabditis elegans* during 4 days infection.

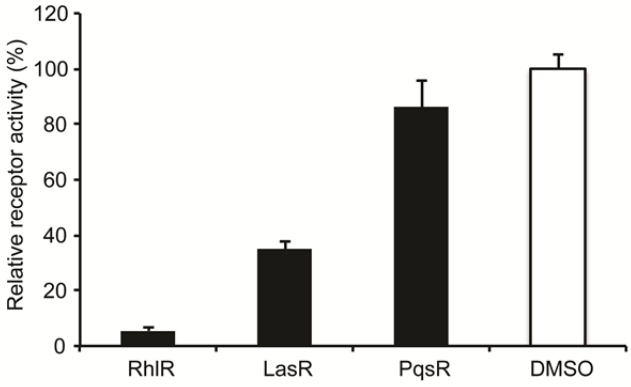


Figure S5: Effects of Furanone C-30 on the activity of QS receptors detected by bioluminescence measurements. Values are plotted relative to a DMSO-treated control and presented as mean ± SD.

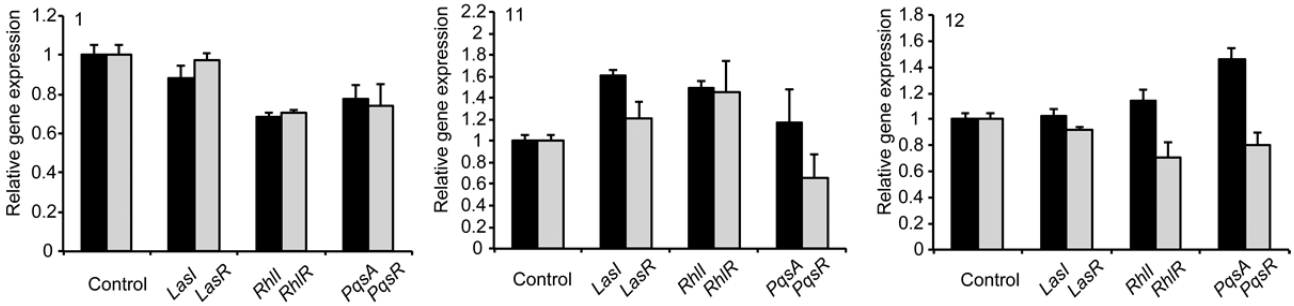


Figure S6: Effects of select compounds at 50 μM on the expression of QS related genes in *P. aeruginosa* PAO1. Results are expressed as means ± SD (n = 3).

Cytotoxicity assay

MRC5 human lung fibroblasts were obtained from the American Type Culture Collection (ATCC). Cells were maintained as monolayer cultures in RPMI-1640 supplemented with 100 μg/mL streptomycin, 100 U/mL penicillin and 10% (v/v) FBS (all from Sigma, Munich, Germany). Cells were grown in a humidified atmosphere of 95% air and 5% CO_2 at 37°C.

Cytotoxicity on MRC5 cells was evaluated with 3-(4,5-dimethylthiazol-2-yl)-2,5-diphenyltetrazolium bromide (MTT).[1] The assay was carried out as previously described [2] using 4AQ derivatives in the concentration ranging from 10 to 200 μg/mL. The results are presented as concentrations of the compounds that inhibited 50% cell viability (IC_{50}).

Toxicity against *Caenorhabditis elegans*

C. elegans N2 (glp-4; sek-1) was propagated under standard conditions, synchronized by hypochlorite bleaching, and cultured on nematode growth medium using *E. coli* OP50 as a food source, as described previously.[3] The *C. elegans* survival assay was carried out as described previously with minor modifications [4]. In brief, synchronized worms (L4 stage) were suspended in a medium containing 95% M9 buffer (3 g of KH_2PO_4, 6 g of Na_2HPO_4, 5 g of NaCl, and 1 ml of 1 M

$MgSO_4 \times 7H_2O$ in 1 liter of water), 5% LB broth (Oxoid), and 10 μg of cholesterol (Sigma-Aldrich) per ml. Twenty-five μL of this suspension of nematodes were transferred to the wells of a 96-well microtiter plate where 75 μL of medium were added to the uninfected control wells while 25 μL of medium were added to tested wells. An overnight bacterial culture was centrifuged, resuspended in the assay medium, and standardized to $2x10^9$ CFU/ml. Aliquots of 25 μL of this standardized suspension were added to the wells. Next, 25 μL solvent control or 25 μL of a concentrated solution was added to the test wells. Subsequently the plates were incubated at 25 °C for up to 4 days. The fraction of dead worms was determined by counting the number of dead worms and the total number of worms in each well, using a stereomicroscope (SMZ143-N2GG, Motic, Germany). The compounds were tested at least three times in each assay and each assay was repeated at least two times ($n \geq 6$). At least 25 *C. elegans* nematodes were used for in each well (25-40 nematodes/well).

Analysis of QS regulatory genes expression

The effect of tested compounds on the relative expression of QS genes (*lasI*, *lasR*, *rhlI*, *rhlR*, *pqsA* and *pqsR*) in *P. aeruginosa* PAO1 was assessed using real-time polymerase chain reaction (RT-PCR). Diluted overnight culture of *P. aeruginosa* PAO1 was grown until the mid exponential phase (OD600 0.6–0.7 approximately 4 h) with the compounds (50 μM) or DMSO (0.1%). Cultures were pelleted, and mRNA was extracted using GeneJet RNA purification kit (Thermo Fisher Scientific, Lithuania). The prepared mRNA was reverse transcribed into cDNA using RevertAid RT Reverse Transcription Kit (Thermo Fisher Scientific) according to manufacturer's protocol.

The RT-PCR was carried out using 7500 Real-Time PCR System (Applied Biosystems, California, USA). Reaction was set up using SYBR Green qPCR Master Mix (Thermo Fisher Scientific) and primers shown in Table S2. Melting temperature for all sets of primers was 60°C. The level of gene expression was relatively normalized to the expression of the housekeeping gene *RplU*. Results were analyzed using 7500 System Software (Applied Biosystem) and calculated as $2^{-\Delta Ct}$. Results are finally presented as percentage of the relative expression of certain genes in *P. aeruginosa* grown with compounds comparing to relative expression of certain genes in *P. aeruginosa* grown without compounds, which were set as 1.

Principal Component Analysis

The data overview is obtained by using a singular value decomposition algorithm (SVD) and a 0.95 confidence level for Q and T2 Hotelling limits for outliers.

The chromatography was combined with different chemometric tools[5] in order to explain molecular interactions between examined compounds and chromatographic system. PCA was first performed on R_M retention data and resulted in three-component model that explains 98.86% of the total variance. The first principal component, PC1, accounted for 88.18% of data variance, the second, PC2, for 7.70%, and the third 2.98%. Score values for PC1 and PC2 were presented in

Figure S5 (A and B). Compounds **14** and **6** lay outside the Hotelling T2 ellipse and that is in accordance with significantly lower retention and lipophilicity of derivative **14** and very strong retention and high lipophilicity of compound **6**. Considering other compounds, it can be observed that separation is based on their lipophilicity along the PC1 axis. Compounds with low lipophilicity are positioned on the negative segment of PC1 score, and high lipophilic compounds are positioned at the right side of graph with positive values of PC1. Compounds **11** and **12** which possess high ability to inhibit pyocyanin production are in the group with most lipophilic derivatives. The graph of loadings [Figure S5 (A and B)], does not reveal any significant influence of the mobile phase composition along the PC1 direction. In general, systems containing methanol have negative impact on PC2, while chromatographic systems containing acetone or dioxane have positive impact on PC2. The exceptions are systems with lowest content of acetone (50%) and dioxane (40%) which have negative impact on PC2.

Another preview of investigated compounds is obtained by performing PCA on the reduced set of calculated structural descriptors, which describe physico-chemical, geometrical, constitutional, and electrostatic property of investigated substances. The PCA resulted in two component model that explains 61.37% of the total variance [Figure S5 (C and D)]. The first principal component, PC1, accounted for 34.19% of data variance, the second one, PC2, for 27.19%. Compounds **14** and **6** are outliers since they lay outside the Hotelling T2 ellipse. It is evident that more polar compounds are in the left side of the PC score, while less polar compounds are in the right side. Compounds **5** and **23** have the most negative values of PC1. The graph of loadings [Figure S5], indicate that descriptors, which encode lipophilic features of compounds have negative impact on PC1, and descriptors, which encode hydrophobic (dispersive) interactions have positive impact on PC1.

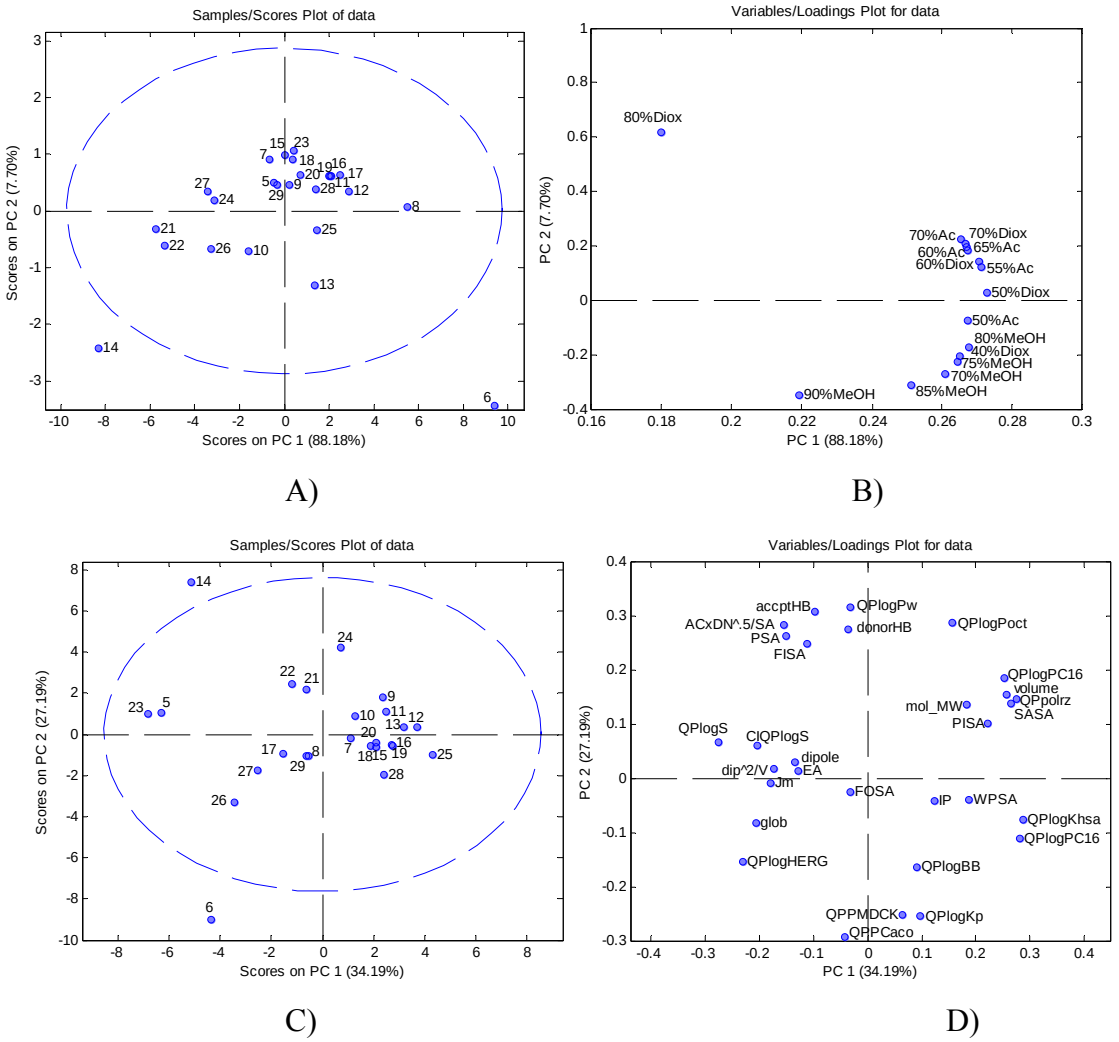


Figure S7. PC1–PC2 score plots of retention parameters and descriptors (A and C respectively) and factor loadings (B and D respectively).

Multivariate statistical modeling and analysis. PLS regression was performed by a PLS_Toolbox software package (v. 5.7 Eigenvectors Inc.) for MATLAB (v. 7.8.0 R2009) (MathWorks, Natick, MA, USA). Details of Principal Component Analysis (PCA) and Partial Least Square (PLS) modelling are given in Supporting material 1 file.

Partial Least Square modelling

The PLS method was employed by means of SIMPLS algorithm without forcing orthogonally constrains to the model which are supposed to condense Y-block variance into the first few latent variables.

The quality of the regression fits was monitored with the $R^2_{\text{cal, the}}$ cumulative sum of squares of the *Y*s explained by all extracted components, R^2_{CV}, the cumulative fraction of the total variation of the *Ys* that can be predicted by all extracted components, respectively. These values have to be as high as possible, and with root-mean-square errors of calibration cross-validation, and prediction,

RMSEC, and *RMSECV* respectively, have to be as low as possible, with the lowest difference between them[6]. The low value of *RMSEC* is desirable but if the high values of *RMSECV* are present at the same time, it indicates the poor predictability of the calibration model. It is considered that QSRR model is predictive, if the following conditions are satisfied: $R^2_{cal} > 0.6$, $R^2_{CV} > 0.5$[7].

The assessment of descriptors that have the greatest influence on activity was done based on variable importance in the projection (VIP) scores. Variables with VIP scores lower than 1 was considered as insignificant.

The entire set of 176 molecular descriptors was used in modelling of lipophilicity parameters and biological activity. The number of variables in the final models was reduced by a double fold PLS. Cross-validation was done with venetian blinds procedure with 3 splits.

In QSPR analysis compounds **18**, **5**, and **6** were excluded from final PLS models since exhibited large deviation from the regression line. Prediction performances of the PLS models were performed on the test set of randomly choose compounds (**14, 15, 16, 20**, and **29**).

In QSAR analysis compounds **13**, **14**, **25**, and **6** were excluded from final PLS models since exhibited large deviation from the regression line. The predictive of the QSAR models were checked on data set of randomly chosen compounds (**24, 15, 16, 20**, and **29)**

Quantitative structure property (QSPR) models were built by partial least square (PLS) analysis in order to quantify relationships between lipophilicity expressed as R_M^0 and log*D*, as dependent variables and structural descriptors of compounds as independent ones. The statistical performance of each model and the most important descriptors (VIP > 1.1) are given in Table S4 in decreasing order with the sign of their contribution to the dependent variable.

Table S4. The statistical performances of QSPR models connecting the most contributing molecular descriptors with molecular lipophilicity.[a]

Dependent variable / organic modifier	***Statistical performance of the model***	***Structural descriptors included in PLS model*** [b]
R_M^0(MeOH)	RMSEC = 0.233, RMSECV = 0.293, RMSEP = 0.432 R^2cal = 0.873, R^2_{CV} = 0.807, R^2_{pred} = 0.950 PLS1: = 65.41% and 67.30% PLS2: = 14.64% and 20.05%	accptHB (-), ALOGP4 (-), ACxDN^.5/SA (-), ALOGP3 (-), PHOA (+), PEOE6 (+), QPlogKhsa (+), QPlogPo/w (+), QPPCaco (+), CIQPlogS (-), vX1 (+), PSA (-), TSC (+), TCI6 (+)
R_M^0(Acetone)	RMSEC = 0.124, RMSECV = 0.164, RMSEP = 0.205 R^2cal = 0.839, R^2_{CV} = 0.729, R^2_{pred} = 0.915	accptHB (-), ALOGP4 (-), CIQPlogS (-), TCI8 (+, TCI6 (+), TCI9 (+), TCI7 (+), TCI10 (+),

	PLS1: = 65.85% and 70.49% PLS2: = 14.43% and 13.42%	SCIX2 (+), CIX2 (+), SCIX0 (+), SMT (+)
R_M^0(Dioxane)	RMSEC = 0.122, RMSECV = 0.171, RMSEP = 0.306 R^2cal = 0.928, R^2_{CV} = 0.861, R^2_{pred} = 0.675 PLS1: = 65.90% and 79.03% PLS2: = 14.36% and 13.77%	accptHB (-), vX2 (+), SCIX2 (+), CIQPlogS (-), TCI3 (+), vX0 (), TCI8 (+), PEOE6 (+), TCI2 (+), TCI6 (+), TCI9 (+), CIX2 (+), SCIX0 (+), TCI1 (+), mol_MW (+), TCI10 (+)
logD	RMSEC = 0.166, RMSECV = 0.247, RMSEP = 0.237 R^2cal = 0.970, R^2_{CV} = 0.857, R^2_{pred} = 0.961 PLS1: = 65.43% and 65.78% PLS2: = 14.62% and 20.22% PLS1: = 5.41% and 7.35% PLS2: = 5.35% and 3.71%	accptHB (-), ALOGP10 (+), TCI4 (+), CIQPlogS (-), PHOA (+), vX1 (+), QPlogPw (-), ACxDN^.5/SA (-), QPPCaco (+), TCI6 (-), TCI7 (-)

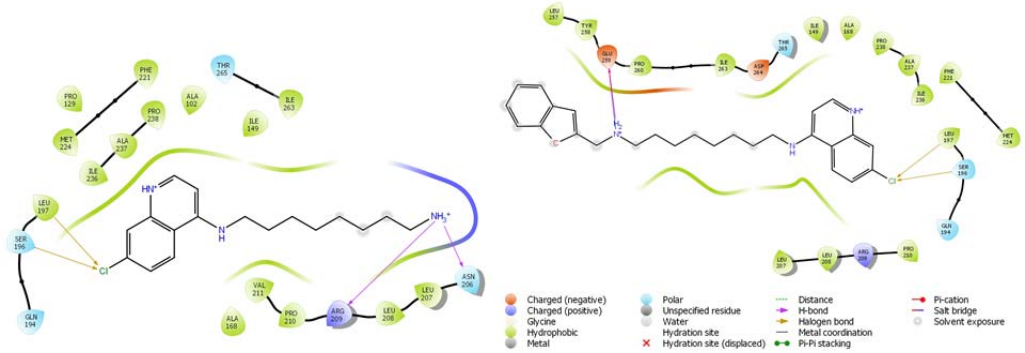
[a] Graphics that illustrate obtained PLS models for contribution of structural descriptor to molecular lipophilicity and inhibition of PYO production were provided in Supporting Information 2 (Graphics S9). [b] For abbreviation definitions and complete list of molecular descriptors see Supporting Information 2.

Table S5. Glide emodel and docking score obtained for examined AQ derivatives, AI (HHQ and PQS) and antagonist **3-NH2-7Cl-C9-QNZ**.[a]

Compound	Glide emodel	Docking score	PqsR activity ± SD	Distance from Leu207 (Å)
12	-85.918	-7.546	25±2 [c]	2.92
11	-85.134	-7.797	7±0.5 [c]	2.52
1	-72.530	-8.088	68±2 [c]	/
3-NH_2-7Cl-C9-QNZ[b]	-62.265	-8.554	5.0±1.6 [d, e]	1.93
6	-54.898	-7.687	9±1 [c, e]	2.36
PQS	-49.576	-7.534	1.9 ± 0.7 [e, f]	2.31
HHQ	-47.690	-6.832	0.8 ± 0.3 [e, f]	2.83

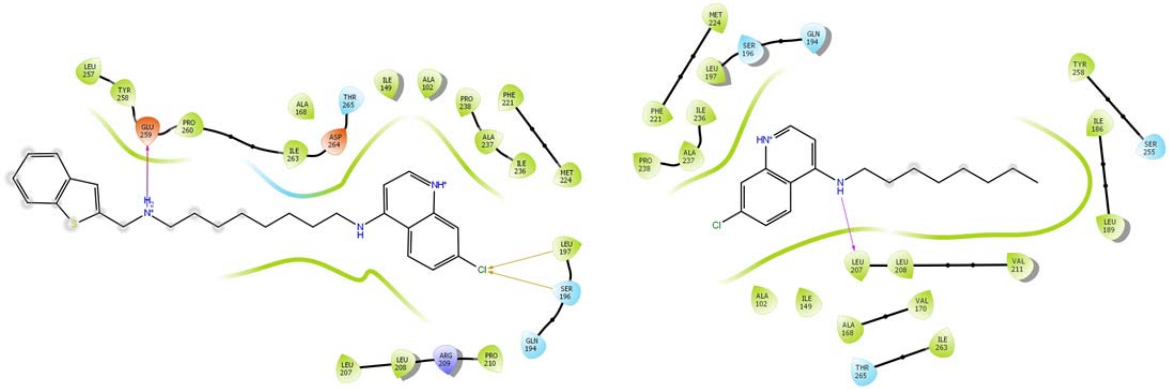
[a] Compounds were presented according to decreasing values of Glide emodel. [b] Structure and fitting mode were taken from the crystal structure; [c]Antagonistic activity, expressed as % of PqsR activity measured at 50 μM concentration of tested compounds; [d] Antagonistic activity, expressed as IC_{50} (μM). [e] Data were taken from reference *8*f; Agonist activity, expressed as EC_{50} (μM).

Ligand-receptor interaction diagrams



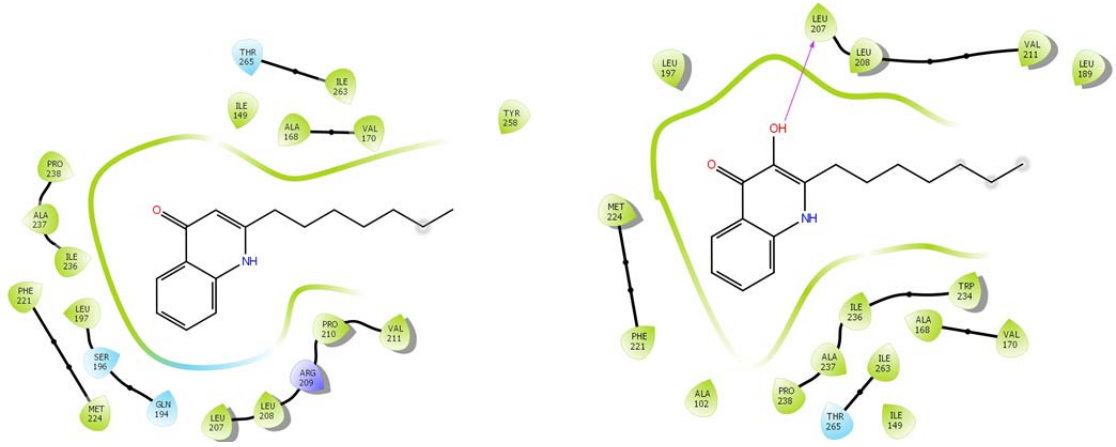
1 **11**

Figure S8. Ligand interaction diagrams for derivative **1** and **11.** Alkyl chain of **1** was placed in the hydrophobic pocket defined by side chain residues of Leu207, Val211, and Ile236. Benzofurane residues of **11** is positioned outside the structure of the receptor, in the region boarded with side chain residues of Glu151, Tyr165, Tyr206, Tyr258, Glu259, Pro260, Asp, 264, Lys266, and Tyr268.



12 **6**

Figure S9. Ligand interaction diagrams for derivative **12** and **6.** Benzothiophene residues of **12**, is positioned outside the structure of the receptor, in the region boarded with side chain residues of Glu151, Tyr165, Tyr206, Tyr258, Glu259, Pro260, Asp, 264, Lys266, and Tyr268. Derivative **6** positioned alkyl chain downward, comparing to the side chains of **11** and **12**, and was stabilized with hydrophobic interactions with the side chains of Val170, Ile186, Leu189, Ile236, and Tyr258.



HHQ **PQS**

Figure S10. Ligand interaction diagrams for derivative **HHQ** and **PQS**.

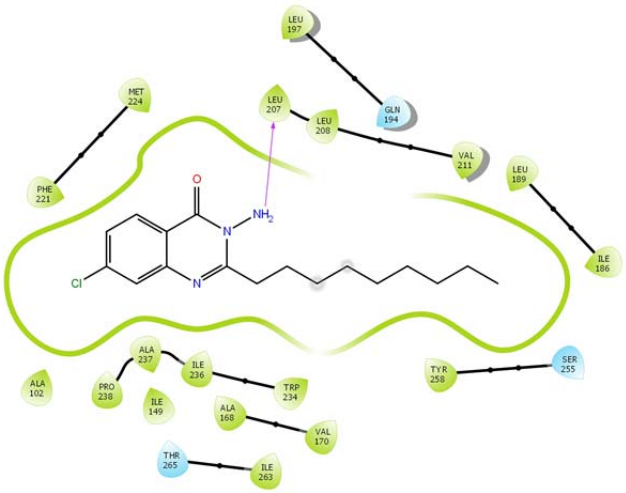


Figure S11. Ligand interaction diagrams for derivative **3-NH_2-7Cl-C9-QNZ**.

Figure S12: Overlapped structures of compounds **1** (orange), **11** (cyan), **12** (green) and **6** (purple). For full ligand interaction diagrams see Figures S8 and S9.

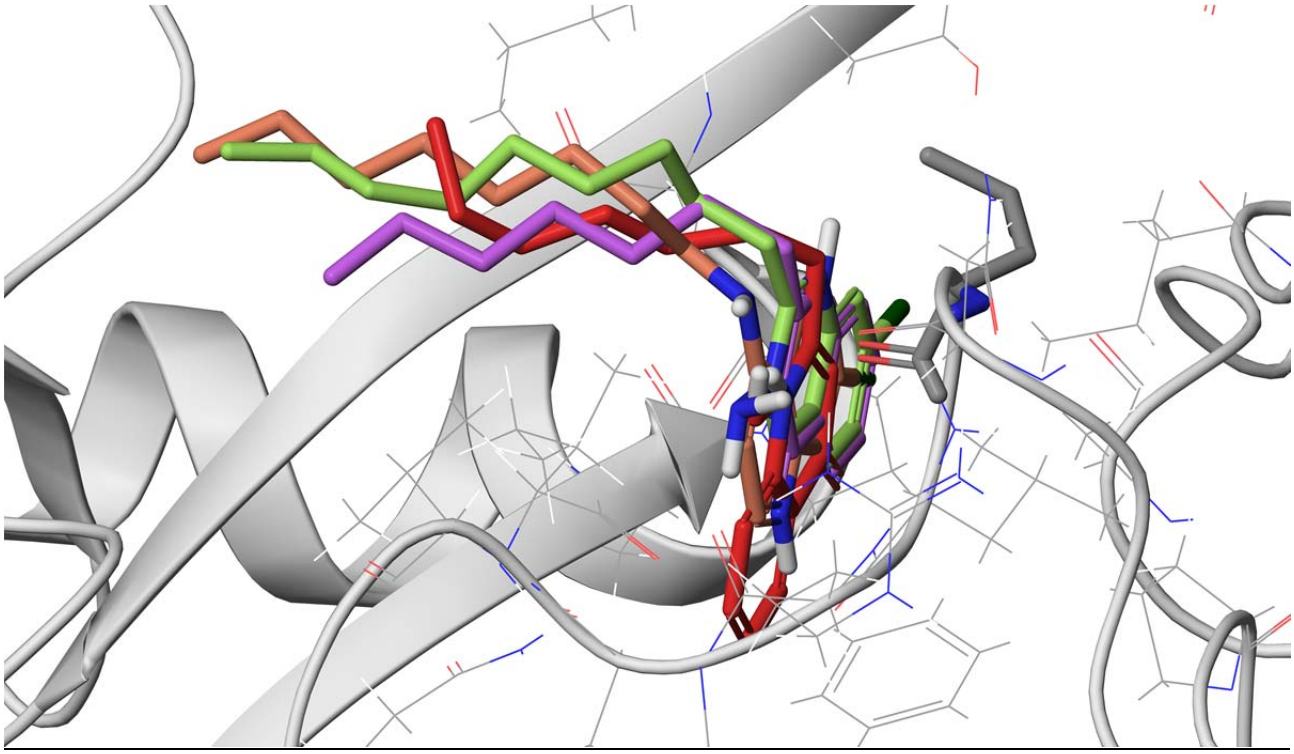


Figure S13: Overlapped structures of compounds HHQ (red), PQS (purple), **3-NH_2-7Cl-C9-QNZ** (green) and **6** (orange). For full ligand interaction diagrams see Figures S9-S11.

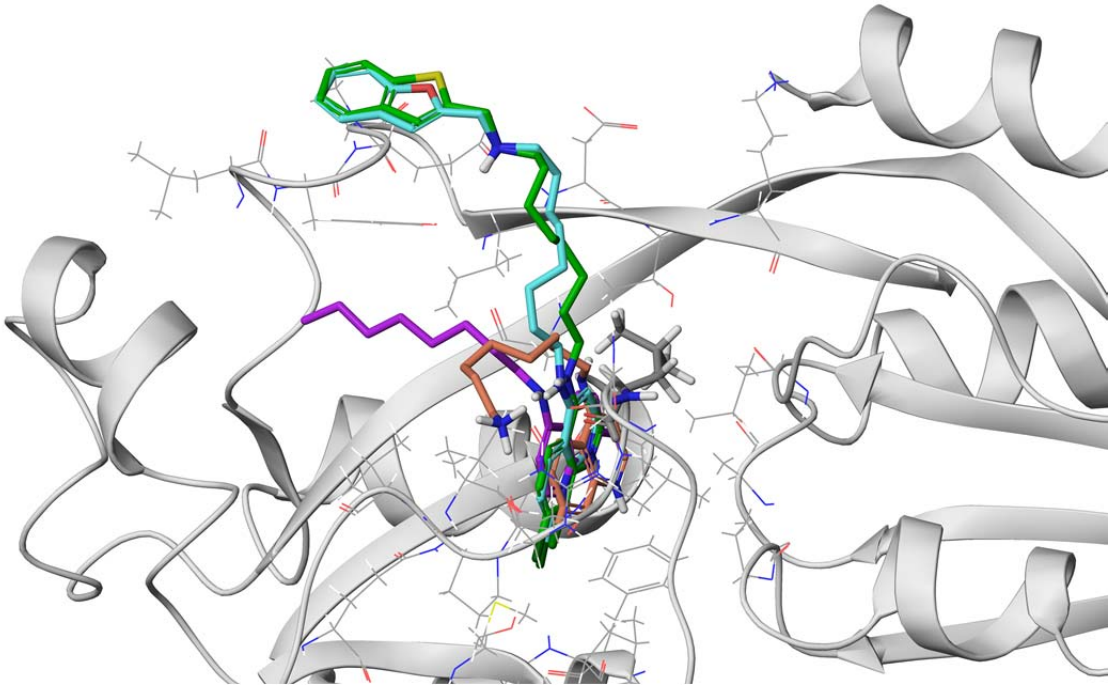
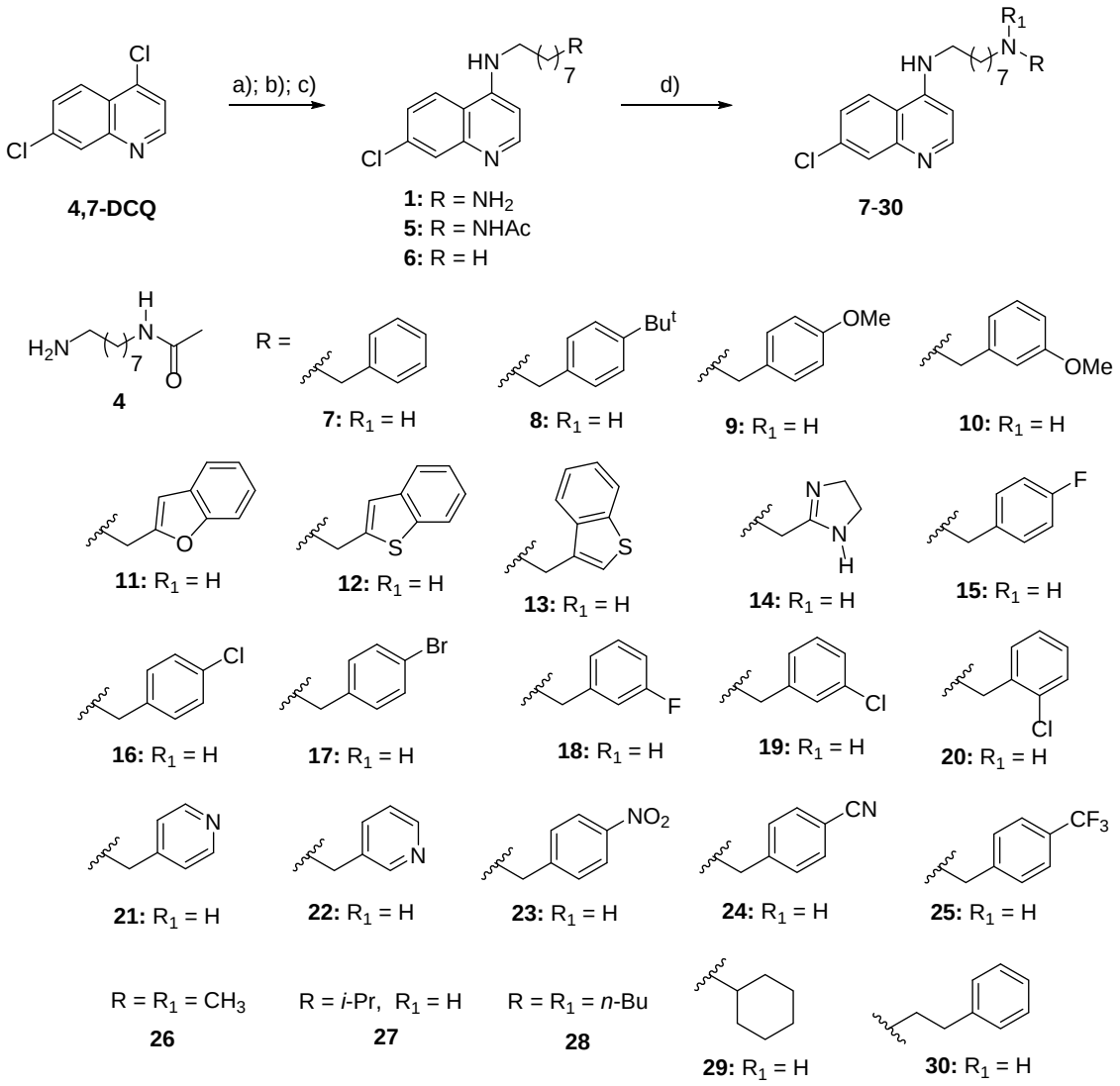


Figure S14: Overlaped structures of compounds **1** (orange), **11** (cyan), **12** (green) and **6** (purple) docked in the bonding site PqsR with key amino acid residues emphasized in stick, and characteristic interactions, representing three different mode of binding with receptor. The docking simulation results showed that quinoline rings of **1**, **11**, **12**, and **6** occupied the same hydrophobic

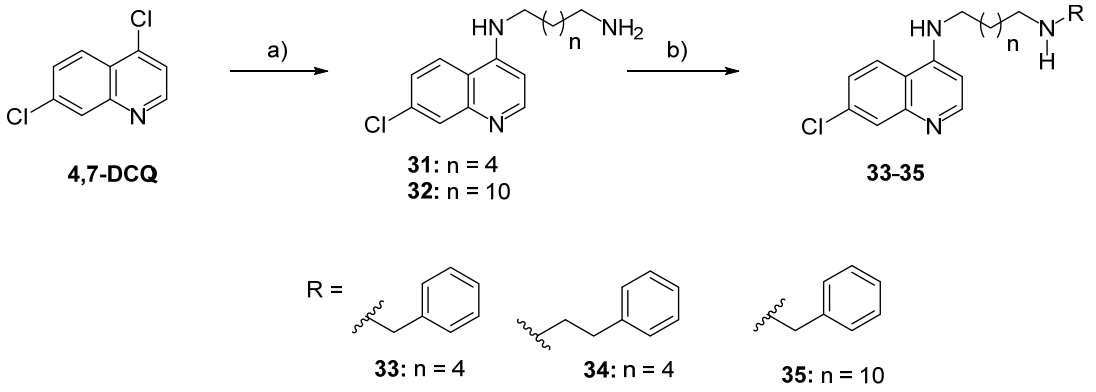
pocket of the receptor, surrounded with side chain residues of Ala102, Ile149, Ala168, Leu197, Leu207, Leu208, Pro210, Phe221, Met224, Ile236, and Pro238.

Synthesis



a) 1,8-diaminooctane, 130 ^{o}C, Ar; b) **4**, 130 ^{o}C, MW, 1,4-dioxane; c) 8-aminooctane, DMSO, 130 ^{o}C, Ar; d) carbonyl comp., $NaBH_4$, MeOH.

Scheme S1. Reaction scheme for synthesis of examined derivatives.



a) 1,6-diaminohexane or 1,12-diaminododecane, 130 °C, Ar; b) carbonyl comp., $NaBH_4$, MeOH.

Scheme S2. Reaction scheme for synthesis of derivatives **33-35**.

Compounds **1, 31** and **32** were synthetized according to described procedure.[9]

***N*-benzyl-*N'*-(7-chloroquinoline-4-yl)octane-1,8-diamine (7):**

General procedure: Mixture of **1** (153.1 mg, 0.498 mmol) and benzaldehide (60.69 µL, 0,59 mmol, 1.2 eq) in MeOH (15 mL) was stirred at r.t 2 hours after what $NaBH_4$ (56.52 mg, 1.494 mmol, 3 eq) was added in one portion. After 2 hours stirring at r.t. solvent was removed under reduce pressure and product was purified by column chromatography (dry-flash, SiO_2, gradient DCM/MeOH→MeOH→ DCM/MeOH/NH_3(aq) = 18:1:1). Yield 151.4 mg (76 %). Amorphous powder softens at 61-65 °C. IR (ATR): 3278m, 2928s, 2855s, 1610m, 1582s, 1455m, 1368m, 1334m, 1208w, 1137w, 1082w, 901w, 851w, 807w, 745w, 700w cm^{-1}. ^{1}H NMR (500 MHz, CD_3OD, δ): 8.33 (*d*, 1H, *J* = 5.8, H-2), 8.14 (*d*, 1H, *J* = 8.9, H-5), 7.77 (*bs*, 1H, H-8), 7.50-7.37 (*m*, 6H, H-Ar and H-6), 6.56-6.49 (*m,* 1H, H-3), 4.10, (s, 2H, H-17), 3.40-3.35 (*m*, 2H, H-9), 2.96-2.90 (m, 2H, H-16), 1.75 (*quint*, *J* = 7.2, 2H, H-10), 1.71-1.64 (*m*, 2H, H-15), 1.51-1.33 [*m*, 8H, H-(11-14)]. ^{13}C NMR (125 MHz, CD_3OD, δ): 151.9, 149.9, 147.1, 135.4, 132.6, 129.3, 128.8, 128.7, 125.2, 124.8, 123.2, 117.1, 98.2, 51.3, 42.7, 28.8, 28.8, 27.9, 26.6, 26.2. (+)TOF-HRMS (*m/z*): calc. for $[C_{24}H_{30}N_3Cl + H]^+$ 396.2207, found 396.2216. HPLC purity: Method A: RT 8.657, area 97.49 %; method B: RT 11.190, area 97.94 %.

***N*-(7-chloroquinoline-4-yl)-*N'*-(4-tertbutylbenzyl)octane-1,8-diamine (8)**:

Derivative **8** was obtained according to general procedure, using **1** (151.3 mg, 0.495 mmol), 4-tert-butylbenzaldehyde (99.34 µL, 0.594 mmol, 1.2 eq) and $NaBH_4$ (56.18, 1.48 mmol, 3 eq). Yield 198.7 mg (89 %), as pale yellow oil. IR (ATR): 3254m, 2928s, 2855s, 1610m, 1579s, 1540m, 1454m, 1366m, 1332m, 1203w, 1136w, 1080w, 878w, 850w, 807w, 770w, 646w cm^{-1}. ^{1}H NMR (500 MHz, CD_3OD, δ): 8.33 (*d*, 1H, *J* = 5.5, H-2), 8.09 (*d*, 1H, *J* = 9.2, H-5), 7.76 (*d*, 1H, J = 2.1, H-8), 7.40-7.32 (*m*, 3H, H-19, H-23 and H-6), 7.23 (*d*, 2H, *J* = 8.2, H-20 and H-22) 6.47 (*dd,* 1H, J_1 = 5.5, J_2 = 2.4, H-3), 3.70, (*s*, 2H, H-17), 3.36-3.29 (*m*, 2H, overlaped with solvent, H-9), 2.56 (*t*,

2H, *J* = 7.5, H-16), 1.72 (*quint*, *J* = 7.1, 2H, H-10), 1.51 (*quint*, *J* = 6.9, 2H, H-15), 1.47-1.24 [*m*, 8H, H-(11-14)], 1.29 (s, 9H, *t*-Bu). ^{13}C NMR (125 MHz, CD_3OD, δ): 151.3, 150.9, 149.9, 148.3, 135.5, 134.8, 127.9, 126.1, 124.9, 124.4, 122.9, 117.3, 98.1, 52.4, 48.4, 42.6, 33.8, 30.4, 29.0, 28.9, 28.6, 27.9, 26.8, 26.7. (+)TOF-HRMS (*m/z*): calc. for $[C_{28}H_{38}N_3Cl+H]^+$ 452,28330, found 452,2828. HPLC purity: Method A: RT 8.876, area 95.33 %; method B: RT 11.805, area 95.05 %.

***N*-(7-chloroquinoline-4-yl)-*N'*-(4-metoxylbenzyl)octane-1,8-diamine (9)**:

Derivative **9** was obtained according to general procedure, using **9** (224.2 mg, 0.733 mmol), 4-metoxybenzaldehyde (119.7 mg, 0.879 mmol, 1.2 eq)[10] and $NaBH_4$ (83.19, 2.2 mmol, 3 eq). Yield 271.7 mg (87 %). Amorphous powder softens at 53 – 55 °C. IR (ATR): 3330w, 3234m, 3066m, 2995m, 2926s, 2857s, 2822m, 2800m, 2757w, 1611m, 1580s, 1547m, 1512s, 1457s, 1430m, 1365m, 1331m, 1282w, 1243s, 1203w, 1175w, 1133w, 1083w, 1046m, 900w, 869w, 851w, 823w, 800m, 782w, 740w, 633w cm^{-1}. ^{1}H NMR (500 MHz, CD_3OD, δ): 8.32 (*d*, 1H, *J* = 5.8, H-2), 8.07 (*d*, 1H, *J* = 8.8, H-5), 7.76 (*d*, 1H, *J* = 2.1, H-8), 7.35 (*dd*, 1H, J_1 = 8.9, J_2 = 2.1, H-6), 7.21 (*d*, 2H, *J* = 8.5, H-20 and H-22), 6.85 (*d*, 2H, *J* = 8.5, H-19 and H-23), 6.44 (*d,* 1H, *J* = 5.5, H-3), 3.75 (*s*, 3H, OCH_3), 3.64, (*s*, 2H, H-17), 3.32-3.26 (*m*, 2H, overlaped with solvent, H-9), 2.55-2.48 (*m*, 2H, H-16), 1.71 (*quint*, *J* = 7.3, 2H, H-10), 1.49 (*quint*, *J* = 7.2, 2H, H-15), 1.45-1.23 [*m*, 8H, H-(11-14)]. ^{13}C NMR (125 MHz, CD_3OD, δ): 158.9, 151.2, 150.9, 148.2, 134.8, 130.9, 129.3, 126.1, 124.4, 122.9, 117.3, 113.4, 98.1, 54.2, 52.3, 48.3, 42.6, 29.1, 28.9, 28.7, 27.9, 26.9, 26.7. (+)TOF-HRMS (*m/z*): calc. for $[C_{25}H_{32}N_3ClO+H]^+$ 426.2312, found 426.2321. HPLC purity: Method A: RT 8.596, area 97.94 %; method B: RT 10.501, area 98.13 %.

***N*-(7-chloroquinoline-4-yl)-*N'*-(3-metoxylbenzyl)octane-1,8-diamine (10):**

Derivative **10** was obtained according to general procedure, using **1** (226.6 mg, 0.741 mmol), 3-metoxybenzaldehyde (108.35 μL, 0.889 mmol, 1.2 eq) and $NaBH_4$ (84.09 mg, 2.223 mmol, 3 eq). Yield 213.0 mg (67%). Amorphous powder softens at 37-40 °C. IR (ATR): 3279m, 3060w, 2929s, 2854m, 1608m, 1581s, 1540w, 1488w, 1455m, 1368w, 1332w, 1265m, 1158w, 1137w, 1081w, 1042w, 900w, 878w, 851w, 807w, 778w, 737w, 697w cm^{-1}. ^{1}H NMR (500 MHz, CD_3OD, δ): 8.32 (*d*, 1H, *J* = 5.8, H-2), 8.08 (*d*, 1H, *J* = 8.9, H-5), 7.76 (*d*, 1H, *J* = 2.1, H-8), 7.36 (*dd*, 1H, J_1 = 8.9, J_2 = 2.1, H-6), 7.23 (*t*, 1H, *J* = 7.9, H-22), 6.95-6.88 (*m*, 2H, H-19 and H-23), 6.83 (*dd*, 1H, J_1 = 8.2, J_2 = 2.1, H-21), 6.46 (*d*, 1H, *J* = 5.5, H-3), 3.78 (*s*, 2H, H-17), 3.77 (*s*, 3H, CH_3-O), 3.36-3.30 (*m*, 2H, H-9, overlaped with solvent signal), 2.66-2.60 (*m*, 2H, H-16), 1.72 (*quint*, 2H, *J* = 7.3, H-10), 1.59-1,49 (*m*, 2H, H-15), 1.47-1.20 [*m*, 8H, H-(11-14)]. ^{13}C NMR (125 MHz, CD_3OD, δ): 159.9, 151.3, 150.8, 148.1, 138.7, 134.8, 129.2, 126.0, 124.4, 122.9, 120.6, 117.3, 113.9, 112.8, 98.1, 54.2, 52.4, 42.6, 29.0, 28.9, 28.1, 27.9, 26.7. (+)ESI-HRMS (*m/z*): calculated for $[C_{25}H_{32}ClN_3O + H]^+$ 426.23121, found 426.23056. HPLC purity: Method A: RT 8.721, area 96.38 %; method B: RT 11.456, area 95.70 %.

***N*-(1-benzofurane-2-ylmethyl)-*N'*-(7-chloroquinoline-4-yl)octane-1,8-diamine (11):**

Derivative **11** was obtained according to general procedure, using **1** (153.4 mg, 0.501 mmol), 1-benzofuran-2-carbaldehyde (72.91 μL, 0.602 mmol, 1.2 eq) and $NaBH_4$ (56.85 mg, 1.503 mmol, 3 eq). Yield 203.1 mg (93%). Amorphous powder softens at 43-46 ^oC. IR (ATR): 3283m, 3064m, 2928s, 2854m, 1609m, 1580s, 1539w, 1453m, 1429w, 1368w, 1332w, 1280sr, 1253w, 1204w, 1171w, 1137w, 1004w, 1081w, 1009w, 944w, 901w, 878w, 851w, 806w, 748w, 646w cm^{-1}. ^1H NMR (500 MHz, CD_3OD, δ): 8.31 (*d*, 1H, *J* = 5.8, H-2), 8.08 (*d*, 1H, *J* = 8.9, H-5), 7.75 (*d*, 1H, *J* = 2.1, H-8), 7.51 (*d*, 1H, *J* = 7.6, H-4'), 7.42 (*d*, 1H, *J* = 8.2, H-7'), 7.36 (*dd*, 1H, J_1 = 9.0, J_2 = 2.0, H-6), 7.25 – 7.20 (m, 1H, H-6'), 7.20 – 7.14 (m, 1H, H-5'), 6.68 (s, 1H, H-3'), 6.46 (*d*, 1H, *J* = 5.8, H-3), 3.92 (*s*, 2H, H-17), 3.34-3.28 (*m*, 2H, H-9, overlaped with solvent signal), 2.64 (*t*, 2H, J = 7.3, H-16), 1.70 (*dt*, 2H, J_1 = 14.4, J_2 = 7.3, H-10), 1.57-1,47 (*m*, 2H, H-15), 1.46-1.20 [*m*, 8H, H-(11-14)]. ^{13}C NMR (125 MHz, CD_3OD, δ): 155.21, 155.16, 151.8, 150.7, 147.9, 135.3, 128.5, 126.0, 124.8, 124.0, 123.2, 122.7, 120.7, 117.5, 110.7, 104.6, 98.4, 48.4, 45.4, 42.9, 29.3, 29.1, 28.7, 28.1, 27.0, 26.9. (+)ESI-HRMS (*m/z*): calculated for $[C_{26}H_{30}ClN_3O + H]^+$ 436.21556, found 436.21474. HPLC purity: Method A: RT 8.723, area 95.45 %; method B: RT 10.787, area 95.28 %.

***N*-(benzothiophene-2-yl)-*N'*-(7-chloroquinoline-4-yl)octane-1,8-diamine: (12):**

Derivative **12** was obtained according to general procedure, using **1** (142.5 mg, 0.47 mmol), 1-benzothiophene-2-carbaldehyde (90.6 mg, 0.56 mmol, 1.2 eq) and $NaBH_4$ (52.9 mg, 1.40 mmol, 3 eq). Yield 168.7 mg (80%). Amorphous powder softens at 70-76 °C. IR (ATR): 3277m, 3063m, 2927s, 2853m, 1610m, 1580s, 1539m, 1454m, 1429m, 1368m, 1332m, 1280w, 1136w, 1081w, 1035w, 878w, 852w, 808w, 744w cm^{-1}. ^1H NMR (500 MHz, CD_3OD, δ): 8.32 (*d*, 1H, *J* = 5.6, H-2), 8.07 (*d*, 1H, *J* = 8.9, H-5), 7.79-7.74 (*m*, 2H, *J* = 7.9, H-8 and H-7'), 7.69 (*d*, 1H, *J* = 7.5, H-4'), 7.36 (*dd*, 1H, J_1 = 8.9, J_2 = 2.2, H-6), 7.32-7.22 (m, 2H, H-5' and H-6'), 7.21 (s, 1H, H-3'), 7.39-7.28 (*m*, 3H, H-6, H-5' and H-6'), 6.46 (*d*, 1H, *J* = 5.6, H-3), 4.02 (*s*, 2H, H-17), 3.33-3.28 (*m*, 2H, H-9, overlaped with solvent signal), 2.64-2.58 (*m*, 2H, H-16), 1.70 (*quint*, 2H, *J* = 7.3, H-10), 1.56-1.47 (*m*, 2H, H-15), 1.46-1.24 [*m*, 8H, H-(11-14)]. ^{13}C NMR (125 MHz, CD_3OD, δ): 153.0, 152.4, 149.7, 144.7, 141.4, 141.3, 136.5, 127.6, 126.1, 125.4, 125.3, 124.5, 124.4, 123.7, 123.3, 118.9, 99.7, 49.8, 44.2, 30.6, 30.5, 30.3, 29.5, 28.4, 28.3. (+)ESI-HRMS (*m/z*): calculated for $[C_{26}H_{30}ClN_3S + H]^+$ 452.1927, obtained 452.1921. HPLC purity: Method A: RT 8.845, area 95.27 %; method B: RT 11.590, area 96.34 %.

***N*-(benzothiophene-3-yl)-*N'*-(7-chloroquinoline-4-yl)-octane-1,8-diamine (13):**

Derivative **13** was obtained according to general procedure, using **1** (150.0 mg, 0.49 mmol), 1-benzothiophene-3-carbaldehyde (95.7 mg, 0.59 mmol, 1.2 eq) and $NaBH_4$ (55.6 mg, 1.47 mmol, 3 eq). Yield 190.9 mg (86%). Amorphous powder softens at 83-91 °C. IR (ATR): 3264m, 3063m, 2927s, 2853s, 1610m, 1580s, 1539m, 1455m, 1429m, 1368m, 1332m, 1280w, 1253w, 1137w,

1080w, 878w, 851w, 807w, 764w, 732w, 646w cm^{-1}. ^1H NMR (500 MHz, CD_3OD, δ): 8.30 (*d*, 1H, *J* = 5.65, H-2), 8.06 (*d*, 1H, *J* = 9.2, H-5), 7.83 (*d*, 1H, *J* = 7.9, H-7'), 7.80 (*d*, 1H, *J* = 7.9, H-4'), 7.74 (*m*, 1H, *J* = 1.8, H-8), 7.43 (s, 1H, H-2'), 7.40-7.28 (*m*, 1H, H-6, H-5' and H-6'), 6.44 (*d*, 1H, *J* = 5.8, H-3), 3.99 (*s*, 2H, H-17), 3,33-3,24 (*m*, 2H, H-9), 2.64 (*t*, 2H, *J* = 7.5, H-16), 1.69 (*quint*, 2H, *J* = 7.2, H-10), 1.58-1.47 (*m*, 2H, H-15), 1.45-1.20 [*m*, 8H, H-(11-14)]. ^{13}C NMR (125 MHz, CD_3OD, δ): 152.9, 152.5, 149.8, 142.1, 139.8, 136.4, 135.2, 127.7, 126.0, 125.7, 125.3, 125.0, 124.5, 123.9, 122.7, 118.9, 99.7, 50.4, 47.6, 44.2, 30.6, 30.5, 30.3, 29.5, 28.4, 28.3. (+)ESI-HRMS (*m/z*): calculated for $[C_{26}H_{30}ClN_3S + H]^+$ 452.1927, obtained 452.1923. 426.23121, found 426.23056. HPLC purity: Method A: RT 8.830, area 96.79 %; method B: RT 10.872, area 96.89 %.

***N*-(7-chloroquinoline-4-yl)-*N'*-(1*H*-imidazol-2-ylmethyl)octane-1,8-diamine (14):**

Derivative **14** was obtained according to general procedure, using **1** (150.0 mg, 0.49 mmol), 2-formyl-1*H*-imidazol hydrochloride (78.2 mg, 0.59 mmol, 1.2 eq) and $NaBH_4$ (55.6 mg, 1.47 mmol, 3 eq). Yield 104.3 mg (55%). Amorphous pale brown powder softens at 119-122 °C. IR (ATR): 3243m, 3152m, 3070m, 2930s, 2853s, 1610m, 1582s, 1548m, 1489m, 1456m, 1430m, 1371m, 1334m, 1288w, 1248w, 1208w, 1136w, 1089w, 980w, 896w, 874w, 849w, 807w, 763w, 730w, 678w, 622w cm^{-1}. ^1H NMR (500 MHz, CD_3OD, δ): 8.23 (*d*, 1H, *J* = 5.65, H-2), 7.99 (*d*, 1H, *J* = 9.1, H-5), 7.66 (*d*, 1H, *J* = 2.05, H-8), 7.27 (*dd*, 1H, J_1 = 9.1, J_2 = 2.05, H-6), 6.87 (s, 2H, H-21 and H-22), 6.38 (*d*, 1H, *J* = 5.65, H-3), 3.27 – 3.18 (*m*, 2H, H-9), 2.44 (*t*, 2H, *J* = 7.3, H-16), 1.63 (*quint*, 2H, *J* = 7.3, H-10), 1.45-1.13 [*m*, 10H, H-(11-15)]. ^{13}C NMR (125 MHz, CD_3OD, δ): 153.0, 152.4, 149.7, 147.8, 136.5, 127.6, 126.1, 124.5, 122.9, 118.9, 99.7, 50.0, 46.8, 44.2, 30.6, 30.5, 29.5, 28.4, 28.3. (+)ESI-HRMS (*m/z*): calculated for $[C_{21}H_{28}ClN_5 + H]^+$ 386.21115, obtained 386.21087. HPLC purity: Method A: RT 8.054, area 97.70 %; method B: RT 10.161, area 98.62 %.

***N*-(7-chloroquinoline-4-yl)-*N'*-(4-fluorobenzyl)octane-1,8-diamine (15):**

Derivative **15** was obtained according to general procedure, using **1** (150.0 mg, 0.49 mmol), 4-fluorobenzaldehyde (63 μL, 0.59 mmol, 1.2 eq) and $NaBH_4$ (55.6 mg, 1.47 mmol, 3 eq). Yield 172.7 mg (85%). Amorphous powder softens at 80-83 °C. IR (ATR): 3217m, 3108m, 3063m, 3004m, 2931s, 2854s, 2815m, 1607m, 1577s, 1544m, 1510s, 1450m, 1430m, 1368m, 1331m, 1280w, 1245w, 1223s, 1155w, 1136w, 1113w, 1083w, 1017w, 967w, 898w, 851m, 827w, 807m, 768w, 641w, cm^{-1}. ^1H NMR (500 MHz, CD_3OD, δ): 8.33 (*d*, 1H, *J* = 5.8, H-2), 8.08 (*d*, 1H, *J* = 8.8, H-5), 7.76 (*d*, 1H, *J* = 2.1, H-8), 7.40-7.30 (*m*, 3H, H-6, H-20 and H-22), 7.08-7.01 (*m*, 2H, H-19 and H-23), 6.47 (*d*, 1H, *J* = 5.8, H-3), 3.74 (*s*, 2H, H-17), 3.36-3.27 (*m*, 2H, H-9, overlaped with solvent signal), 2.60-2.54 (*m*, 2H, H-16), 1.72 (*quint*, 2H, *J* = 7.3, H-10), 1.56-1.48 (*m*, 2H, H-15), 1.47-1.23 [*m*, 8H, H-(11-14)]. ^{13}C NMR (125 MHz, CD_3OD, δ): 161.8 (*d*, $^1J(^{19}F,^{13}C)$ = 242.5, C21), 151.0, 150.5, 150.8, 147.9, 134.5, 134.0, 129.81 (*d*, $^2J(^{19}F,^{13}C)$ = 8.2, C19 and C23), 125.7, 124.1, 122.6, 117.0, 114.35 (*d*, $^3J(^{19}F,^{13}C)$ = 20.75, C20 and C22), 97.8, 51.6, 48.0, 42.2, 28.7, 28.6, 28.2,

27.6, 26.5, 26.4. (+)TOF-HRMS (*m/z*): calculated for $[C_{24}H_{29}N_3FCl + H]^+$ 414.2112, found 414.2125. HPLC purity: Method A: RT 8.636, area 97.02 %; method B: RT 10.454, area 96.64 %.

***N*-(4-chlorobenzyl)-*N'*-(7-chloroquinoline-4-yl)octane-1,8-diamine (16):**

Derivative **16** was obtained according to general procedure, using **1** (151.6 mg, 0.5 mmol), 4-chlorobenzaldehyde (83.6 mg, 0.6 mmol, 1.2 eq) and $NaBH_4$ (56.3 mg, 1.49 mmol, 3 eq). Yield 190.0 mg (89%). Amorphous powder softens at 59-63 ^oC. IR (ATR): 3208m, 3062m, 3021m, 2933s, 2853s, 1580s, 1545m, 1491m, 1453m, 1430m, 1368m, 1332m, 1281w, 1246w, 1206w, 1139w, 1094w, 1017w, 972w, 898w, 846m, 805m, 764w, 734w, 644w, cm^{-1}. ^1H NMR (500 MHz, CD_3OD, δ): 8.31 (*d*, 1H, *J* = 5.8, H-2), 8.07 (*d*, 1H, *J* = 9.1, H-5), 7.75 (*d*, 1H, *J* = 2.05, H-8), 7.35 (*dd*, 1H, J_1 = 9.1, J_2 = 2.05, H-6), 7.33-7.27 (*m*, 4H, Ar), 6.46 (*d*, 1H, *J* = 5.8, H-3), 3.72 (*s*, 2H, H-17), 3.37-3.26 (*m*, 2H, H-9, overlaped with solvent signal), 2.55 (*t*, 2H, J = 7.5, H-16), 1.71 (*quint*, 2H, *J* = 7.3, H-10), 1.55-1.46 (*m*, 2H, H-15), 1.45-1.19 [*m*, 8H, H-(11-14)]. ^{13}C NMR (125 MHz, CD_3OD, δ): 151.6, 151.1, 148.4, 137.5, 135.1, 133.0, 130.0, 128.4, 126.3, 124.7, 123.1, 117.6, 98.4, 52.2, 48.6, 42.8, 29.3, 29.2, 28.8, 28.2, 27.1, 27.0, 26.9. (+)ESI-HRMS (*m/z*): calculated for $[C_{24}H_{29}Cl_2N_3 + H]^+$ 430.1817, found 430.1814. HPLC purity: Method A: RT 8.744, area 98.83 %; method B: RT 10.728, area 98.94 %.

***N*-(4-bromobenzyl)-*N'*-(7-chloroquinoline-4-yl)octane-1,8-diamine (17):**

Derivative **17** was obtained according to general procedure, using **1** (148.6 mg, 0.49 mmol), 4-bromobenzaldehyde (107.3 mg, 0.58 mmol, 1.2 eq) and $NaBH_4$ (55.2 mg, 1.46 mmol, 3 eq). Yield 207.9 mg (90%). Amorphous powder softens at 75-77 ^oC. IR (ATR): 3650w, 3269m, 3064m, 2927s, 2853s, 1610m, 1580s, 1539m, 1485m, 1452m, 1368m, 1332m, 1281w, 1248w, 1203w, 1136w, 1075w, 1011w, 901w, 878w, 850w, 806w, 769w, 645w cm^{-1}. ^1H NMR (500 MHz, CD_3OD, δ): 8.34 (*d*, 1H, *J* = 5.5, H-2), 8.09 (*d*, 1H, *J* = 8.9, H-5), 7.77 (*d*, 1H, *J* = 2.1, H-8), 7.46 (*d*, 2H, *J* = 8.5, H-20 and H-22), 7.38 (*dd*, 1H, J_1 = 9.2, J_2 = 2.1, H-6), 7.25 (*d*, 2H, *J* = 8.5, H-19 and H-23), 6.49 (*d*, 1H, *J* = 5.5, H-3), 3.70 (*s*, 2H, H-17), 3.38-3.29 (*m*, 2H, H-9, overlaped with solvent signal), 2.58-2.50 (*m*, 2H, H-16), 1.74 (*quint*, 2H, *J* = 7.3, H-10), 1.57-1.25 [*m*. 10H, H-(11-15)]. ^{13}C NMR (125 MHz. CD_3OD. δ): 150.9, 150.5, 147.8, 137.9, 134.4, 130.6, 129.6, 125.7, 124.0, 122.4, 120.0, 116.9, 97.7, 51.7, 48.0, 42.1, 28.6, 28.5, 28.3, 27.4, 26.4, 26.3. (+)ESI-HRMS (*m/z*): calculated for $[C_{24}H_{29}BrClN_3 + H]^+$ 474.13116, found 474.13157. HPLC purity: Method A: RT 8.815, area 98.12 %; method B: RT 11.504, area 97.64 %.

***N*-(7-chloroquinoline-4-yl)-*N'*-(3-fluorobenzyl)octane-1,8-diamine (18):**

Derivative **18** was obtained according to general procedure, using **1** (150.0 mg, 0.49 mmol), 4-fluorobenzaldehyde (72.98 mg, 0.59 mmol, 1.2 eq) and $NaBH_4$ (55.61 mg, 1.47 mmol, 3 eq). Yield 184.1 mg (91%). Amorphous powder softens at 37-42 ^oC. IR (ATR): 3278m, 3063m, 2928s, 2854m, 1612m, 1580s, 1541m, 1486m, 1452m, 1368m, 1332m, 1252m, 1138m, 1080w, 876w,

852w, 806w, 784w, 688w, 647w, 522w cm^{-1}. ^{1}H NMR (500 MHz, CD_3OD, δ): 8.32 (*d*, 1H, *J* = 5.8, H-2), 8.08 (*d*, 1H, *J* = 8.8 Hz, H-5), 7.75 (*d*, 1H, *J* = 2.1 Hz, H-8), 7.39-7.30 (*m*, 2H, H-22 and H-6), 7.18-7.09 (*m*, 2H, H-19 and H-23), 7.0 (*td*, 1H, J_1 = 8.5, J_2 = 2.4, H-21), 6.48 (*d,* 1H, *J* = 5.8 Hz, H-3), 3.82 (*s*, 2H, H-17), 3.37-3.29 (*m*, 2H, H-9, overlaped with solvent signal), 2.67-2.59 (m, 2H, H-16), 1.72 (*quint*, 2H, H-10), 1.59-1.50 (*m*, 2H, H-15), 1.48-1.22 [*m*, 8H, H-(11-14)]. ^{13}C NMR (125 MHz, CD_3OD, δ): 164.4 (*d*, $^{1}J(^{19}F,^{13}C)$ = 242.9, C20), 153.0, 152.3, 149.6, 141.9 (*d*, $^{3}J(^{19}F,^{13}C)$ = 6.4, C18), 136.5, 131.5 (*d*, $^{3}J(^{19}F,^{13}C)$ = 8.2, C22), 127.5, 126.1, 125.8 (*d*, $^{4}J(^{19}F,^{13}C)$ = 2.7, C23), 124.5, 118.9, 116.6 (*d*, $^{2}J(^{19}F.^{13}C)$ = 21.6, C19), 115.5 (*d*. $^{2}J(^{19}F.^{13}C)$ = 20.8, C21), 99.7, 53.56, 49.8, 44.2, 30.6, 30.5, 29.8, 29.5, 28.3. (+)ESI-HRMS (*m/z*): calculated for $[C_{24}H_{29}ClFN_3 + H]^+$ 414.21123, found 414.21038. HPLC purity: Method A: RT 8.702, area 97.43 %; method B: RT 11.492, area 96.27 %.

***N*-(3-chlorobenzyl)-*N'*-(7-chloroquinoline-4-yl)octane-1,8-diamine (19):**

Derivative **19** was obtained according to general procedure, using **1** (150.6 mg, 0.49 mmol), 3-chlorobenzaldehyde (83.06 mg, 0.59 mmol, 1.2 eq) and $NaBH_4$ (55.84 mg, 1.48 mmol, 3 eq). Yield 165.5 mg (78%). Amorphous powder softens at 58-62 ^{o}C. IR (ATR): 3231m, 3062w, 2924s, 2854m, 2816w, 2749w, 1580s, 1537m, 1456m, 1366m, 1330m, 1280w, 1230w, 1208w, 1165w, 1139w, 1078w, 892w, 864w, 849w, 811w, 768w, 737w, 698w, 681w, 640w cm^{-1}. ^{1}H NMR (500 MHz, CD_3OD, δ): 8.32 (*d*, 1H, *J* = 5.65, H-2), 8.08 (*d*, 1H, *J* = 8.9, H-5), 7.76 (*d*, 1H, *J* = 2.1, H-8), 7.40-7.35 (*m*, 2H, H-19 and H-6), 7.33-7.21 (*m*, 3H, H-21, H-22 and H-23), 6.47 (*d*, 1H, *J* = 5.65, H-3), 3.73 (*s*, 2H, H-17), 3.37-3.27 (*m*, 2H, H-9, overlaped with solvent signal), 2.59-2.51 (*m*, 2H, H-16), 1.72 (*quint*, 2H, H-10), 1.56-1.47 (*m*, 2H, H-15), 1.47-1.22 [*m*, 8H, H-(11-14)]. ^{13}C NMR (125 MHz, CD_3OD, δ): 152.9, 152.4, 149.8, 142.6, 136.4, 135.5, 131.1, 129.8, 128.5, 128.1, 127.6, 126.1, 124.5, 118.9, 99.7, 53.8, 50.0, 44.2, 30.6, 30.5, 30.2, 29.5, 28.4, 28.3. (+)ESI-HRMS (*m/z*): calculated for $[C_{24}H_{29}Cl_2N_3 + H]^+$ 430.18168, found 430.18153. HPLC purity: Method A: RT 8.673, area 96.83 %; method B: RT 11.420, area 96.44 %.

***N*-(2-chlorobenzyl)-*N'*-(7-chloroquinoline-4-yl)octane-1,8-diamine (20):**

Derivative **20** was obtained according to general procedure, using **1** (153.6 mg, 0.50 mmol), 2-chlorobenzaldehyde (84.7 mg, 0.60 mmol, 1.2 eq) and $NaBH_4$ (57.0 mg, 1.50 mmol, 3 eq). Yield 163.6 mg (76%). Amorphous powder softens at 69-74 ^{o}C. IR (ATR): 3229m, 3064m, 3019w, 2925s, 2854m, 2811w, 1581s, 1546m, 1451m, 1367m, 1332m, 1279w, 1249w, 1203w, 1137w, 1079w, 1043w, 899w, 850w, 803w, 747w, 699w, 642w cm^{-1}. ^{1}H NMR (500 MHz, CD_3OD, δ): 8.32 (*d*, 1H, *J* = 5.65, H-2), 8.09 (*d*, 1H, *J* = 9.2, H-5), 7.76 (*d*, 1H, *J* = 2.1 Hz, H-8), 7.42 (*dd*, 1H, J_1 = 7.2, J_2 = 2.0, H-6), 7.40-7.35 (*m*, 2H, H-20 and H-21), 7.31-7.23 (*m*, 2H, H-22 and H23), 6.48 (*d*, 1H, *J* = 5.65 Hz, H-3), 3.88 (*s*, 2H, H-17), 3.37-3.29 (*m*, 2H, H-9, overlaped with solvent signal), 2.64-2.58 (*m*, 2H, H-16), 1.73 (*quint*, 2H, *J* = 7.3, H-10), 1.54 (*quint*, 2H, *J* = 7.2, H-15), 1.48-1.23

[*m*, 8H, H-(11-14)]. ^{13}C NMR (125 MHz, CD_3OD, δ): 153.0, 152.3, 149.6, 137.4, 136.5, 135.1, 131.9, 130.7, 130.3, 128.4, 127.5, 126.1, 124.5, 118.9, 99.7, 51.5, 49.9, 44.2, 30.6, 30.5, 30.1, 29.5, 28.33, 28.27. (+)ESI-HRMS (*m/z*): calculated for $[C_{24}H_{29}Cl_2N_3 + H]^+$ 430.18168, found 430.18151. HPLC purity: Method A: RT 8.674, area 96.71 %; method B: RT 11.324, area 97.07 %.

***N*-(7-chloroquinoline-4-yl)-*N'*-(pyridin-4-ylmethyl)octane-1,8-diamine (21):**

Derivative **21** was obtained according to general procedure, using **1** (150.0 mg, 0.49 mmol), 4-pyridinecarbaldehyde (56 μL, 0.59 mmol, 1.2 eq) and $NaBH_4$ (55.7 mg, 1.47 mmol, 3 eq). Yield 154.2 mg (79%). Amorphous powder softens at 70-73 °C. IR (ATR): 3297m, 2934s, 2858m, 12324w, 1690w, 1609m, 1578s, 1544m, 1463w, 1373m, 1331m, 1291w, 1255w, 1221w, 1132m, 1082w, 1000w, 906w, 875w, 854w, 805w, 769w, 730w, 608w cm^{-1}. ^{1}H NMR (500 MHz, CD_3OD, δ): 8.46 (*d*, 2H, *J* = 5.65, H-20, H-22), 8.33 (*d*, 1H, *J* = 5.65, H-2), 8.09 (*d*, 1H, *J* = 9.0, H-5), 7.76 (*d*, 1H, *J* = 1.95 Hz, H-8), 7.4 (*d*, 2H, *J* = 5.65, H-19, H-23), 7.37 (*dd*, 1H, J_1 = 9.0, J_2 = 1.98, H-6), 6.48 (*d*, 1H, *J* = 5.65 Hz, H-3), 3.78 (*s*, 2H, H-17), 3.36-3.29 (*m*, 2H, H-9, overlaped with solvent signal), 2.58-2.51 (*m*, 2H, H-16), 1.73 (*quint*, 2H, *J* = 7.3, H-10), 1.52-1.48 (*m*, 2H, H-15), 1.48-1.23 [*m*, 8H, H-(11-14)]. ^{13}C NMR (125 MHz, CD_3OD, δ): 152.9, 152.5, 151.7, 150.2, 149.8, 136.4, 127.7, 126.0, 125.1, 124.1, 118.9, 99.7, 53.3, 50.3, 44.2, 30.7, 30.6, 30.5, 29.5, 28.4, 28.3. (+)ESI-HRMS (*m/z*): calculated for $[C_{23}H_{29}ClN_4 + H]^+$ 397.21589, found 397.21523. HPLC purity: Method A: RT 8.077, area 98.96 %; method B: RT 10.177, area 98.94 %.

***N*-(7-chloroquinoline-4-yl)-*N'*-(pyridin-3-ylmethyl)octane-1,8-diamine (22):**

Derivative **22** was obtained according to general procedure, using **1** (150.4 mg, 0.49 mmol), 3-pyridinecarbaldehyde (55 μL, 0.59 mmol, 1.2 eq) and $NaBH_4$ (50.7 mg, 1.47 mmol, 3 eq). Yield 168.4 mg (86%). Amorphous powder softens at 54-56 °C. IR (ATR): 3288m, 2928s, 2854m, 1609m, 1581s, 1541m, 1453m, 1427m, 1368m, 1332m, 1281w, 1249w, 1136w, 1028w, 879w, 851w, 806w, 715w, 644w cm^{-1}. ^{1}H NMR (500 MHz, CD_3OD, δ): 8.51 (*d*, 1H, *J* = 1.8, H-19), 8.42 (*dd*, 1H, J_1 = 4.9, J_2 =1.5, H-21), 8.33 (*d*, 1H, *J* = 5.65, H-2), 8.09 (*d*, 1H, *J* = 8.9, H-5), 7.82 (*dt*, 1H, J_1 = 7.8, J_2 = 1.8, H-23), 7.76 (*d*, 1H, *J* = 2.1 Hz, H-8), 7.42-7.35 (*m*, 2H, H-6 and H22), 6.48 (*d*, 1H, *J* = 5.65 Hz, H-3), 3.76 (*s*, 2H, H-17), 3.37-3.29 (*m*, 2H, H-9, overlaped with solvent signal), 2.59-2.51 (*m*, 2H, H-16), 1.78-1.68 (*m*, 2H, H-10), 1.57-1.48 (*m*, 2H, H-15), 1.48-1.24 [*m*, 8H, H-(11-14)]. ^{13}C NMR (125 MHz, CD_3OD, δ): 152.9, 152.6, 150.4, 149.9, 148.9, 138.6, 137.4, 136.4, 127.7, 126.0, 125.3, 124.5, 118.9, 99.7, 51.8, 50.2, 44.2, 30.7, 30.5, 29.5, 28.5, 28.3. (+)ESI-HRMS (*m/z*): calculated for $[C_{23}H_{29}ClN_4 + H]^+$ 397.21589, found 397.21544. HPLC purity: Method A: RT 8.134, area 98.27 %; method B: RT 9.822, area 97.92 %.

***N*-(7-chloroquinoline-4-yl)-*N'*-(4-nitrobenzyl)octane-1,8-diamine (23):**

Derivative **23** was obtained according to general procedure, using **1** (153.9 mg, 0.50 mmol), 4-chlorobenzaldehyde (91.2 mg, 0.6 mmol, 1.2 eq) and $NaBH_4$ (57.1 mg, 1.51 mmol, 3 eq). Yield

181.1 mg (82%). Amorphous powder softens at 57-60 ^{o}C. IR (ATR): 3620w, 3422m, 3352m, 3109m, 2934s, 2858m, 1607m, 1578s, 1515s, 1480m, 1449m, 1373m, 1345s, 1290w, 1252w, 1207w, 1168w, 1136w, 1108w, 1059w, 1016w, 907w, 856m, 809m, 771w, 735w, 688w, 654w, cm^{-1}. ^{1}H NMR (500 MHz, CD_3OD, δ): 8.33 (*d*, 1H, *J* = 5.65, H-2), 8.22-8.16 (*m*, 2H, H-20 and H-22), 8.09 (*d*, 1H, *J* = 8.85, H-5), 7.75 (*d*, 1H, *J* = 2.1, H-8), 7.60-7.54 (*m*, 2H, H-19 and H-23), 7.38 (*dd*, 1H, J_1 = 8.85, J_2 = 2.1, H-6), 6.49 (*d*, 1H, *J* = 5.65, H-3), 3.86 (*s*, 2H, H-17), 3.37-3.29 (*m*, 2H, H-9, overlaped with solvent signal), 2.62-2.54 (*m*, 2H, H-16), 1.77-1.69 (*m*, 2H, H-10), 1.58-1.49 (*m*, 2H, H-15), 1.48-1.23 [*m*, 8H, H-(11-14)]. ^{13}C NMR (125 MHz, CD_3OD, δ): 151.6, 150.8, 148.1, 147.3, 147.0, 135.1, 129.2, 126.9, 126.1, 124.7, 123.2, 123.1, 117.4, 98.3, 62.7, 52.2, 48.8, 42.7, 29.2, 29.1, 29.0, 28.0, 27.0, 26.8. (+)ESI-HRMS (*m/z*): calculated for $[C_{24}H_{29}ClN_3O_2 + H]^+$ 441.20573, found 441.20478. HPLC purity: Method A: RT 8.620, area 97.88 %; method B: RT 11.249, area 97.95 %.

***N*-(4-cyanobenzyl)-*N'*-(7-chloroquinoline-4-yl)octane-1,8-diamine (24):**

Derivative **24** was obtained according to general procedure, using **1** (256.7 mg, 0.834 mmol), 4-formylbenzonitrile (131.3 mg, 1.0 mmol,) and $NaBH_4$ (94.6 mg, 2.50 mmol, 3 eq). Yield 199.3 mg (56%). Amorphous powder softens at 56-61 °C. IR (ATR): 3293m, 3064w, 2928s, 2854s, 2228m, 1609m, 1581s, 1540m, 1454m, 1368m, 1333w, 1281w, 1249w, 1206w, 1136w, 1081w, 901w, 878w, 851w, 813w, 768w cm^{-1}. ^{1}H NMR (500 MHz, CD_3OD, δ): 8.33 (*d*, 1H, *J* = 5.65, H-2), 8.09 (*d*, 1H, *J* = 9.05, H-5), 7.76 (*d*, 1H, *J* = 2.15, H-8), 7.68 (*d*, 2H, *J* = 8.3, H-20 and H-22), 7.52 (*d*, 2H, *J* = 8.2, H-19 and H-23), 7.38 (*dd*, 1H, J_1 = 9.05, J_2 = 2.5, H-6), 6.49 (*d*, 1H, *J* = 5.65, H-3), 3.85 (*s*, 2H, H-17), 3.37-3.32 (*m*, 2H, H-9, overlaped with solvent signal), 2.62-2.56 (*m*, 2H, H-16), 1.77 (*quint*, 2H, H-10), 1.59-1.49 (*m*, 2H, H-15), 1.48-1.21 [*m*, 8H, H-(11-14)]. ^{13}C NMR (125 MHz, CD_3OD, δ): 153.1, 152.1, 149.4, 145.9, 136.6, 133.5, 130.7, 127.4, 126.2, 124.5, 119.8, 118.8, 112.3, 99.7, 53.8, 50.1, 44.2, 30.6, 30.5, 30.1, 29.5, 28.34, 28.27. (+)ESI-MS (*m/z*): calculated for $[C_{25}H_{29}ClN_4 + H]^+$ 421.21589, found 421.21489. HPLC purity: Method A: RT 8.065, area 95.81 %; method B: RT 10.185, area 95.07 %.

***N*-(7-chloroquinoline-4-yl)-*N'*-(4-trifluoromethylbenzyl)octane-1,8-diamine (25):**

Derivative **25** was obtained according to general procedure, using **1** (150.0 mg, 0.49 mmol), 4-trifluoromethylbenzaldehyde (80.6 µL, 0.59 mmol,) and $NaBH_4$ (55.6 mg, 1.47 mmol, 3 eq). Yield 203.2 mg (89%). Amorphous powder softens at 40-43 °C. IR (ATR): 3259m, 3063w, 2929s, 2855m, 1612m, 1580s, 1538m, 1452m, 1424w, 1368m, 1327s, 1280w, 1163m, 1124s, 1066m, 1018w, 878w, 849w, 810w, 767w, 642w cm^{-1}. ^{1}H NMR (500 MHz, CD_3OD, δ): 8.32 (*d*, 1H, *J* = 5.5, H-2), 8.08 (*d*, 1H, *J* = 8.85, H-5), 7.76 (*d*, 1H, *J* = 1.95, H-8), 7.61, 7.50 (ABq, 4H, *J*AB = 8.2, $C_6H_4CF_3$), 7.37 (*dd*, 1H, J_1 = 8.85, J_2 = 1.95, H-6), 6.47 (*d*, 1H, *J* = 5.5, H-3), 3.79 (*s*, 2H, H-17), 3.37-3.28 (*m*, 2H, H-9, overlaped with solvent signal), 2.54 (*t*, 2H, J = 7.5, H-16), 1.73 (*quin*, 2H,

H-10), 1.56-1.48 (*m*, 2H, H-15), 1.48-1.21 [*m*, 8H, H-(11-14)]. ^{13}C NMR (125 MHz, CD_3OD, δ): 152.9, 152.5, 149.9, 145.5, 136.4, 133.5, 130.2, 127.7, 126.43, 126.40, 126.0, 125.9 (*q*, *J* = 269.9, CF_3), 124.4, 118.98, 99.7, 54.0, 50.2, 44.2, 30.7, 30.5, 29.5, 28.5, 28.3. (+)ESI-MS (*m/z*): calculated for $[C_{25}H_{29}ClF_3N_3 + H]^+$ 464.20803, found 464.20732. HPLC purity: Method A: RT 8.886, area 96.63 %; method B: RT 11.554, area 96.85 %.

***N*,*N*-dimethyl-*N*'-(7-chloroquinoline-4-yl)-octane-1,8-diamine (26)**

Solution of **1** (150.0 mg, 0.49 mmol) and 36% formaldehyde (245.4 μL, 3.19 mmol, 6.5 eq) in MeOH (6 mL), was stirred at r.t. and suspension of $ZnCl_2$ anh. (66.8 mg, 0.49 mmol) and $NaBH_3CN$ (61.6 mg, 0.98 mmol) in MeOH (6 mL) was added dropwise. After 3 hours solvent was removed under reduce pressure and product was purified by column chromatography (dry-flash, SiO_2, gradient DCM/MeOH→MeOH→ DCM/MeOH/NH_3(aq) = 9:1:1). Yield 87.2 mg (53%). Amorphous powder softens at 87-89 °C. IR (ATR): 3251s, 3066m, 2980m, 2931s, 2851s, 2808m, 2780m, 2749m, 1610m, 1580s, 1544s, 1490m, 1458s, 1428m, 1369m, 1330s, 1280m, 1236m, 1211m, 1166m, 1136m, 1079w, 1034w, 994w, 905w, 867w, 844m, 801m, 725w, 638w, cm^{-1}. ^{1}H NMR (500 MHz, CD_3OD, δ): 8.34 (*d,* 1H, *J* = 5.8 Hz, H-2), 8.09 (*d,* 1H, *J* = 8.9 Hz, H-5), 7.77 (*d,* 1H, *J* = 2.2 Hz, H-8), 7.38 (*dd,* 1H, J_1 = 8.9 Hz, J_2 = 2.2 Hz, H-6), 6.50 (*d*, 1H, *J* = 5.8 Hz, H-3), 3.35 (*t,* 2H, *J* = 7.2 Hz, H-9), 2.33-2.27 (*m,* 2H, H-16), 2.23 (s, 6H, $N(CH_3)_2$), 1.75 (*quin,* 2H, *J* = 7.2 Hz, H-10), 1.52-1.26 [*m,* 10H, H-(11-15)]. ^{13}C NMR (125 MHz, CD_3OD, δ): 152.9, 152.5, 149.8, 136.4, 127.7, 126.0, 124.5, 118.9, 99.7, 60.8, 45.4, 44.1, 30.7, 30.5, 29.5, 28.6, 28.3, 28.3. (+)TOF-HRMS (*m/z*): calculated for $[C_{19}H_{28}ClN_3 + H]^+$ 334.2050, found 334.2036. HPLC purity: Method A: RT 8.730, area 99.58 %; method B: RT 9.730, area 99.32 %.

***N*-(7-chloroquinoline-4-yl)-*N'*-(propan-2-yl)octane-1,8-diamine (27).**

Solution of **1** (100.0 mg, 0.33 mmol) and acetone (29.0 μL, 0.40 mmol, 1.2 eq) in DCE (6.4 mL), was stirred at r.t. 2 hours, $NaBH_3CN$ (104.9 mg, 0.99 mmol) was added, following with an additional $NaBH_3CN$ (104.9 mg, 0.99 mmol) after 8h. After 15 hours solvent was removed under reduce pressure, vater was added and pH was adjuced to 11 with 1M NaOH solution. Water was removed by filtration, and product was purified by column chromatography (dry-flash, SiO_2, gradient DCM/MeOH→MeOH→ DCM/MeOH/NH_3(aq) = 9:1:1). Yield 87.2 mg (53%). Amorphous powder softens at 52-54 °C. IR (ATR): 3271m, 3063w, 2928s, 2854s, 1610m, 1580s, 1540m, 1453m, 1368m, 1332w, 1280w, 1249w, 1170w, 1136w, 1080w, 850w, 806m, cm^{-1}. ^{1}H NMR (500 MHz, CD_3OD, δ): 8.33 (*d,* 1H, *J* = 5.5 Hz, H-2), 8.09 (*d,* 1H, *J* = 8.85 Hz, H-5), 7.76 (*d,* 1H, *J* = 1.95 Hz, H-8), 7.37 (*dd,* 1H, J_1 = 8.85 Hz, J_2 = 1.95 Hz, H-6), 6.48 (*d*, 1H, *J* = 5.5 Hz, H-3), 3.36-3.29 (*m,* 2H, H-9, overlaped with solvent signal), 2.77 (*spt*, 1H, *J* = 6.3, H-17), 2.56-2.50 (*m,* 2H, H-16), 1.79-1.69 (*m,* 2H, H-10), 1.53-1.23 [*m,* 10H, H-(11-15)], 1.06 (*d*, 6H, *J* = 6.1, H-18 and H-18'). ^{13}C NMR (125 MHz, CD_3OD, δ): 151.3, 151.0, 148.3, 134.8, 126.2, 124.5, 122.9,

117.4, 98.2, 48.4, 46.8, 42.6, 29.2, 29.0, 28.0, 27.0, 26.8. (+)ESI-MS (*m/z*): calculated for $[C_{20}H_{30}ClN_3 + H]^+$ 348.2206, found 348.2204. HPLC purity: Method A: RT 8.249, area 99.0 %; method B: RT 9.943, area 98.57 %.

***N*,*N*-dibutyl-*N*'-(7-chloroquinolin-4-yl)octane-1,8-diamine (28)**

Derivative **28** was obtained according procedure described for **27**, using **1** (150.2 mg, 0.49 mmol) and butanal (52.0 μL, 0.59 mmol, 1.2 eq) in DCE (6.0 mL) and $NaBH_3CN$ (2 × 156.1 mg, 1.47 mmol, 3 eq). Reaction mixture was work-up as described for DO240, and product was purified by column chromatography (dry-flash, SiO_2, gradient DCM/MeOH→MeOH→DCM/MeOH/NH_3(aq) = 9:1:1). Yield 74.5 mg (36%) as pale yellow oil. IR (ATR): 3277w, 3061w, 2930s, 2856s, 2798m, 1650w, 1610m, 1576s, 1538m, 1455m, 1369m, 1332w, 1279w, 1252w, 1199w, 1136w, 1082w, 901w, 878w, 851w, 810m, cm^{-1}. ^1H NMR (500 MHz, CD_3OD, δ): 8.33 (*d,* 1H, *J* = 5.8 Hz, H-2), 8.09 (*d,* 1H, *J* = 8.9 Hz, H-5), 7.76 (*d,* 1H, *J* = 2.1 Hz, H-8), 7.37 (*dd,* 1H, J_1 = 8.9 Hz, J_2 = 2.1 Hz, H-6), 6.48 (*d*, 1H, *J* = 5.8 Hz, H-3), 3.37-3.30 (*m,* 2H, H-9, overlaped with solvent signal), 2.48-2.40 (*m*, 6H, H-16, H-17 and H-17'), 1.78-1.69 (*m,* 2H, H-10), 1.50-1.23 [*m,* 18H, H-(11-15), H-18, H-18', H-19, H-19'], 0.93 (*d*, 6H, *J* = 7.3, H-20 and H-20'). ^{13}C NMR (125 MHz, CD_3OD, δ): 152.9, 152.5, 149.9, 136.4, 127.7, 126.0, 124.5, 118.9, 99.7, 55.2, 54.9, 44.2, 30.7, 30.6, 29.5, 28.7, 28.3, 27.3, 22.0, 14.5. (+)ESI-MS (*m/z*): calculated for $[C_{25}H_{40}ClN_3 + H]^+$ 418.2989, found 418.2984. HPLC purity: Method A: RT 8.787, area 95.31 %; method B: RT 11.669, area 95.50 %.

***N*-(7-chloroquinolin-4-yl)-*N'*-cyclohexyloctane-1,8-diamine (29)**

Derivative **29** was obtained according procedure described for **27**, using **1** (159.8 mg, 0.52 mmol) and cyclohexanone (65.4 μL, 0.63 mmol, 1.2 eq) in DCE (6.0 mL) and $NaBH_3CN$ (2 × 166.0 mg, 1.57 mmol, 3 eq). Reaction mixture was work-up as described for **27**, and product was purified by column chromatography (dry-flash, SiO_2, gradient DCM/MeOH→MeOH→DCM/MeOH/NH_3(aq) = 9:1:1). Yield 131.8 mg (65%). Amorphous powder softens at 105-108 ^oC. IR (ATR): 3243m, 3066w, 2926s, 2852s, 1612m, 1580s, 1544m, 1456m, 1430w, 1369m, 1332m, 1280w, 1238w, 1207w, 1136m, 1081w, 905w, 848w, 802w, 767w cm^{-1}. ^1H NMR (500 MHz, CD_3OD, δ): 8.33 (*d,* 1H, *J* = 5.8 Hz, H-2), 8.09 (*d,* 1H, *J* = 9.1 Hz, H-5), 7.76 (*d,* 1H, *J* = 2.2 Hz, H-8), 7.38 (*dd,* 1H, J_1 = 9.1 Hz, J_2 = 2.2 Hz, H-6), 6.48 (*d*, 1H, *J* = 5.8 Hz, H-3), 3.37-3.30 (*m,* 2H, H-9, overlaped with solvent signal), 2.58-2.52 (*m*, 2H, H-16), 2.40 (*tt,* 1H, J_1 = 10.9, J_2 = 3.7, H_{ax}-17), 1.93-1.86 (*m,* 2H, H_{eq}-18 and H_{eq}-22), 1.79-1.69 (*m,* 4H, H-10, H_{eq}-19 and H_{eq}-21), 1.67-1.59 (*m*, 1H, H_{eq}-20), 1.52-1.21 [m, 12H, H-(11-15), H_{eq}-19 and H_{eq}-21], 1.17 (*tt*, 1H, J_1 = 12.4, J_2 = 3.3, H_{ax}-20), 1.12-1.01 (m, 2H, H_{ax}-19, H_{ax}-21). ^{13}C NMR (125 MHz, CD_3OD, δ): 152.9, 152.6, 149.9, 136.4, 127.7, 126.0, 124.5, 118.9, 99.7, 58.2, 47.7, 44.2, 33.8, 30.74, 30.70, 30.5, 29.5, 28.6, 28.3, 27.3, 26.3. (+)ESI-MS (*m/z*): calculated for $[C_{23}H_{34}ClN_3 + H]^+$ 388.25195, found 388.25151. HPLC purity: Method A: RT 8.573, area 98.41 %; method B: RT 10.507, area 98.16 %.

***N*-(7-chloroquinolin-4-yl)-*N*'-(2-phenylethyl)octane-1,8-diamine (30)**

Derivative **30** was obtained according to general procedure, using **1** (150.0 mg, 0.49 mmol), phenylacetaldehyde (70.9 mg, 0.59 mmol, 1.2 eq) and $NaBH_4$ (55.61 mg, 1.47 mmol, 3 eq). Yield 79.8 mg (44%) as pale yellow oil. IR (ATR): 3293m, 3064m, 2927m, 2939s, 2855m, 1610m, 1581s, 1541w, 1454m, 1369m, 1333w, 1282w, 1250w, 1205w, 1137w, 1081w, 878w, 852w, 808w, 749w cm^{-1}. ^1H NMR (500 MHz, CD_3OD, δ): 8.18 (*d,* 1H, *J* = 5.5 Hz, H-2), 7.95 (*d,* 1H, *J* = 9.1 Hz, H-5), 7.62 (*d,* 1H, *J* = 2.05 Hz, H-8), 7.23 (*dd,* 1H, J_1 = 9.1 Hz, J_2 = 2.05 Hz, H-6), 7.18-7.11 (m, 2H, H-21 and H-23), 7.11-7.02 (m, 3H, H-20, H22 and H-24), 6.33 (*d*, 1H, *J* = 5.8 Hz, H-3), 3.25-3.15 (*m,* 2H, H-9, overlaped with solvent signal), 2.86-2.78 (*m*, 2H, H-18), 2.76-2.68 (*m*, 2H, H-17), 2.63-2.55 (*m*, 2H, H-16), 1.58 (*dt,* 2H, J_1 = 14.4, J_2 = 7.3, H-10), 1.46-1.36 (*m,* 2H, H-15), 1.52-1.21 (m, 8H, H-(11-14). ^{13}C NMR (125 MHz, CD_3OD, δ): 151.4, 150.8, 148.2, 138.2, 134.9, 128.3, 128.2, 126.3, 126.1, 124.5, 122.9, 117.3, 98.1, 49.8, 48.4, 42.6, 33.9, 28.9, 27.9, 27.6, 26.7, 26.5. HPLC purity: Method A: RT 8.622, area 86.99 %; method B: RT 12.384, area 88.45 %.

***N*-(8-[(7- chloroquinolin-4-yl)amino]octyl)acetamide (5):**

Mixture of 4,7-dichloroquinoline (50 mg, 0.252 mmol, 1 eq.) and **4**[11] (103.20 mg, 0.554 mmol, 2.2 eq.) in dioxane (2 mL) was heated at 160 ^oC in MW reactor for 5.5 h. A cooled to room temperature, solvent was removed under reduce pressure and product was purified by column chromatography (dry-flash, SiO_2, gradient DCM/MeOH→MeOH→DCM/MeOH/NH_3(aq) = 9:1:1). Yield 37.1 mg (42%). Amorphous powder softens at 74-78 ^oC. IR (ATR): 3260s, 3069s, 2926s, 2854s, 1654s, 1610s, 1583s, 1553s, 1454m, 1370m, 1332m, 1285m, 1245w, 1212m, 1166w, 1139w, 1107w, 1089w, 1040w, 903w, 854w, 811w, 766w, 720w cm^{-1}. ^1H NMR (500 MHz, CD_3OD, δ): 8.37 (*d,* 1H, *J* = 6.7 Hz, H-2), 8.31 (*d,* 1H, *J* = 9.1 Hz, H-5), 7.83 (*d,* 1H, *J* = 2.05 Hz, H-8), 7.58 (*dd,* 1H, J_1 = 9.1 Hz, J_2 = 2.05, Hz, H-6), 6.75 (*d*, 1H, *J* = 6,7 Hz, H-3), 3.52 (*t,* 2H, *J* = 7.3 Hz, H-9), 3.16 (*t,* 2H, *J* = 7.2 Hz, H-16), 1.94 (*s,* 3H, Ac-N), 1.80 (*quin*, 2H, *J* = 6.9 Hz, H-10), 1.48-1.25 [*m,* 10H, H-(11-15)]. ^{13}C NMR (125 MHz, CD_3OD, δ): 171.3, 154.05, 144.7, 141.4, 137.5, 125.8, 123.6, 120.8, 115.7, 97.8, 42.8, 38.6, 28.5, 28.45, 28.38, 27.3, 26.2, 26.0, 20.7. (+)TOF-HRMS (*m/z*): calculated for $[C_{19}H_{26}ClN_3O + H]^+$ 348.1843, found 348,1840. HPLC purity: Method A: RT 8.839, area 98.66 %; method B: RT 11.071, area 99.48 %.

7-chloro-*N*-octylquinolin-4-amine (6):

Compound **6** was synthetized according to procedure described in the literature[9], using 4,7-dichloroquinoline (150.0 mg, 0.76 mmol), 1-aminooctane (251 µL, 1.5 mmol, 2 eq) in DMSO (250 µL). Product was purified by column chromatography (dry-flash, SiO_2, gradient DCM/[MeOH:Et_3N = 9:1] = 98:2. Yield 153.7 mg (70%). Amorphous powder softens at 65-69 ^oC. IR (ATR): 3217m, 3062m, 3008m, 2928s, 2855m, 12324w, 1610w, 1580s, 1541m, 1490w, 1456m, 1433m, 1369m, 1330m, 1303w, 1280w, 1252w, 1206w, 1143m, 1080w, 1017w, 980w, 908w, 874w, 852w, 824w,

799w, 772w, 727w, 646w, 622w, 600w cm^{-1}. ^1H NMR (500 MHz, CD_3Cl, δ): 8.53 (*d*, 2H, *J* = 5.5, H-2), 7.96 (*d*, 1H, *J* = 2.1, H-8), 7.66 (*d*, 1H, *J* = 9.05 Hz, H-5), 7.35 (*dd*, 1H, J_1 = 9.05, J_2 = 2.1, H-6), 6.41 (*d*, 1H, *J* = 5.2 Hz, H-3), 5.03 (bs, 1H, N-H), 3.34-3.26 (*m*, 2H, H-9), 1.76 (*quint*, 2H, *J* = 7.3, H-10), 1.46-1.41 (*m*, 2H, H-11), 1.41-1.22 [*m*, 8H, H-(12-15)], 0.90 (*t*, H, *J* = 6.7, H-16). ^{13}C NMR (125 MHz, CD_3Cl, δ): 151.8, 149.8, 149.7, 148.8, 134.8, 128.5, 125.2, 120.8, 117.0, 98.94, 98.91, 43.2, 43.1, 31.7, 29.2, 29.1, 28.80, 28.76, 22.5, 14.0. (+)ESI-HRMS (*m/z*): calculated for $[C_{17}H_{23}ClN_2 + H]^+$ 291.1628, found 291.1622. HPLC purity: Method A: RT 10.018, area 99.06 %; method B: RT 12.184, area 99.09 %.

***N*-benzyl-*N*'-(7-chloroquinolin-4-yl)hexane-1,6-diamine (33)**

Derivative **34** was obtained according to general procedure, using **31** (148.5 mg, 0.54 mmol), benzaldehyde (68.76 mg, 0.65 mmol) and $NaBH_4$ (61.3 mg, 1.62 mmol, 3 ekv). Yield 135.6 mg (69%) as pale yellow oil. IR (ATR) cm^{-1}: 3268m, 3062m, 2930s, 2854m, 1609m, 1580s, 1539m, 1452m, 1367m, 1331w, 1280w, 1136w, 900w, 876w, 850w, 808w, 736w.^{1}HNMR (500 MHz, CD_3OD , δ): 8.27 (*d*, 1H, *J* = 5.65, H-2), 8.03 (*d*, 1H, *J* = 9.05, H-5), 7.71 (*d*, 1H, *J* = 1.95, H-8), 7.32 (*dd*, 1H, J_1 = 9.05, J_2 = 1.95, H-6), 7.27 – 7.21 (*m*, 4H, H-Ar(17,18, 20 and 21)), 7.20 – 7.14 (*m*, 1H, H-19), 6.42 (*d*, 1H, *J* = 5.65, H-3), 3.65 (*s*, 2H, H-15), 3.31-3.23 (*m*, 1H, H-9, overlaped with solvent signal), 2.53 – 2.46 (*m*, 2H, H-14), 1.72 – 1.64 (*m*, 2H, H-10), 1.49 (*quin*, 2H, *J* = 7.4, H-13), 1.44 – 1.29 (*m*, 4H, H-11 and H-12). ^{13}C NMR (125 MHz, CD_3OD, δ): 151.5, 151.2, 148.5, 139.4, 135.0, 128.3, 128.2, 126.9, 126.4, 124.7, 123.1, 117.6, 98.38, 53.3, 48.6, 42.7, 29.1, 28.1, 27.0, 26.9. HPLC purity: Method A: RT 8.265, area 99.45 %; method B: RT 11.627, area 98.81 %.

***N*-(7-chloroquinolin-4-yl)-*N*'-(2-phenylethyl)hexane-1,6-diamine (34)**

Derivative **34** was obtained according to general procedure, using **31** (150.8 mg, 0.54 mmol), phenylacetaldehyde (77.9 mg, 0.65 mmol, 1.2 eq) and $NaBH_4$ (69.91 mg, 1.85 mmol, 3 eq). Yield 108.0 mg (52%) as pale yellow oil.

IR (ATR): 3329s, 2929s, 2855s, 1581s, 1452m, 1368m, 1333m, 1281w, 1250w, 1134m, 878w, 851w, 807w, 748w, 700w cm^{-1}. ^1H NMR (500 MHz, CD_3OD, δ): 8.19(*d,* 1H, *J* = 5.65 Hz, H-2), 7.97 (*d,* 1H, *J* = 9.1 Hz, H-5), 7.62 (*d,* 1H, *J* = 1.9 Hz, H-8), 7.24 (*dd,* 1H, J_1 = 9.1 Hz, J_2 = 1.9 Hz, H-6), 7.19-7.13 (m, 2H, H-19 and H-21), 7.13-7.05 (m, 3H, H-18, H20 and H-22), 6.36 (*d*, 1H, *J* = 5.65 Hz, H-3), 6.36 (*d*, 1H, *J* = 5.65 Hz, H-3), 3.22 (*t,* 2H, *J* = 7.2, 2H, H-9), 2.97-2.90 (*m*, 2H, H-16), 2.82-2.76 (*m*, 2H, H-15), 2.76-2.69 (*m*, 2H, H-14), 1.62 (*quin,* 2H, *J* = 7.1, H-10), 1.52 (*dt,* 2H, J_1 = 15.0, J_2 = 7.5, H-13), 1.39-1.24 (m, 4H, H-11 and H-12). ^{13}C NMR (125 MHz, CD_3OD, δ): 151.5, 150.6, 147.9, 137.5, 135.0. 128.4, 128.3, 126.5, 125.9, 124.6, 123.0, 117.3, 98.2, 49.3, 42.4, 33.1, 27.7, 26.8, 26.3, 26.1. HPLC purity: Method A: RT 8.407, area 96.26 %; method B: RT 11.857, area 98.54 %.

***N*-benzyl-*N*'-(7-chloroquinolin-4-yl)dodecane-1,12-diamine (35)**

Derivative **35** was obtained according to general procedure, using **32** (161.4 mg, 0.45 mmol), benzaldehyde (56.8 mg, 0.54 mmol) and $NaBH_4$ (50.6 mg, 1.34 mmol, 3 ekv). Yield 128.3 mg (64%) as pale yellow oil. IR (ATR) cm^{-1}: 3230m, 3063w, 2923s, 2852m, 1666w, 1610w, 1545m, 1491w, 1452m, 1430w, 1366m, 1332w, 1279w, 1248w, 1204w, 1137w, 1081w, 1026w, 900w, 850w, 804w, 747w, 725w, 695w. ^{1}HNMR (500 MHz, CD_3OD , δ): 8.33 (*d*, 1H, *J* = 5.5, H-2), 8.09 (*d*, 1H, *J* = 8.9, H-5), 7.76 (*d*, 1H, *J* = 2.05, H-8), 7.37 (*dd*, 1H, J_1 = 8.9, J_2 = 2.05, H-6), 7.35 – 7.22 (*m*, 5H, H-Ar), 6.47(*d*, 1H, *J* = 5.5, H-3), 3.76 (*s*, 2H, H-21), 3.36-3.29 (*m*, 2H, H-9, overlaped with solvent signal), 2.61 – 2.55 (*m*, 2H, H-20), 1.73 (*quin*, 2H, *J* = 7.3, H-10), 1.56 – 1.48 (*m*, 2H, H-19), 1.48 – 1.40 (*m*, 2H, H-11), 1.40-1.17 (m, 14H, H-(12-18). ^{13}C NMR (125 MHz, CD_3OD, δ): 151.0, 150.6, 147.9, 138.0, 134.5, 128.2, 127.9, 127.8, 127.5, 126.6, 126.2, 125.8, 124.1, 122.6, 117.0, 97.8, 52.5, 48.0, 42.3, 28.9, 28.8, 28.7, 28.2, 27.6, 26.6, 26.4. (+)TOF-HRMS (*m/z*): calculated for $[C_{28}H_{38}ClN_3 + H]^+$ 452.2833, found 452.2811. HPLC purity: Method A: RT 9.078, area 92.63 %; method B: RT 13.143, area 98.10 %.

HPLC analyses for purity

Compounds were analyzed for purity (HPLC) using a Agylent Technologies 1260 liquid chromatograph equipped with quaternary pump (G1311B), injector (G1329B), 1260 ALS, TCC 1260 (G1316A), and detector 1260 DAD VL+ (G1315C). For data processing, LC OpenLab CDS ChemStation software was used. Zorbax Eclipse Plus C18 2.1 x 100mm, 1.8µ, was used as the stationary phase. Eluents were made from the following solvents: 0.2% formic acid in water and acetonitrile or methanol (S) for method A or method B respectively. The analyses were performed at the UV max of the compounds to maximize selectivity. All samples were dissolved in methanol and final concentrations were ~ 1mg/mL. The flow rate was 0.2mL/min. Compounds were eluted using gradient protocol: 0 – 1 min 95% S, 1 - 6 min 95% S → 5% S, 11 - 14 min 5% S, 14 – 15 min 5% S → 95% S. HPLC purity of all synthetized compounds were >95%, with exeption of **30** which is 87% and 88.45% pure.

Thin-layer chromatography for lipophilicity determination

Method: Methanol, acetone, dioxane, and hydrochloric acid were of analytical-grade purity and purchased from Merck (Darmstadt, Germany). Water was purified using Millipore Simplicity 185 S.A., 67120, water purification system (Molshem, France). Thin-layer chromatography was performed on 10×10 cm aluminium sheet plates of RP-18W F254s (Art. 5559, Merck, Darmstadt,

Germany) stationary phase using the vertical developing chamber (CAMAG Muttenz, Switzerland). The investigated substances were dissolved in methanol, and the plates were spotted with 0.2 μL aliquots of freshly prepared solutions (C ~50 μg/mL). The isocratic mobile phase contained solvents methanol, acetone and dioxane as an organic modifier, water, and hydrochloric acid (conc.). The portion of hydrochloric acid was kept constant at 5 Vol%, while contents of organic modifier and water were changed, with final pH=1 of mobile phase. Methanol was used in range 90-70 Vol% (increment 5%), acetone in range 70-50 Vol% (increment 5%), and dioxane in range of 80-30 Vol% (increment 10%). Before development, the chromatographic chamber was saturated for 15 min in with vapors of the corresponding mobile phase. Detection of individual zones was performed using UV lamp (254nm). All experiments were performed at ambient temperature (22±2 °C).

The retention factor RM0, is obtained by extrapolationof plots of RM values versus the concentration of the organic modifier in mobile phase to zero concentration of the modifier (pure water), usually conducted by using the linear Eq. (1)[12]

$$RM = RM0 + bC \qquad (1)$$

The slope, *b*, is related to the specific hydrophobic surface area of compounds, and C is the volume fraction of organic component in mobile phase.

The *R*M is calculated according to Eq. (2)[13]

$$RM = \log (1/RF-1) \qquad (2)$$

Correlations: Introduction of halogen atom into benzyl-group resulted in increased lipophilicity of the analogues. For chloro substituted derivatives **20** (*orto*-), **19** (*meta*-), and **16** (*para*-) corresponding R_M^0 values increased in order *orto* < *meta* < *para*. Introduction of groups with opposite electronic effects such as nitro- and metoxy-groups in *para* position resulted in higher lipophilicity of both compounds **23** and **9**, in comparison to **7**. Among the benzyl-substituted derivatives, the highest R_M^0 values was exhibited by compound **8** with *t*-butyl group, followed by compound **25** with trifluoromethyl group, while nitrile-group **24** caused decreasing of R_M^0 and $\log D_{exp}$ values in comparison to compound **7**. Due to increased number of nitrogen atoms, which were protonated under applied conditions, compounds **21** and **22** with pyridine ring and compound **14** with imidazole exhibited the lowest lipophilicity. Accordingly, for compounds with *N*-alkyl groups, the increase in the number and length of alkyl substituents led to the increase of lipophilicity.

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Compound 7: ^{1}H NMR spectrum (500 MHz, CD_3OD):

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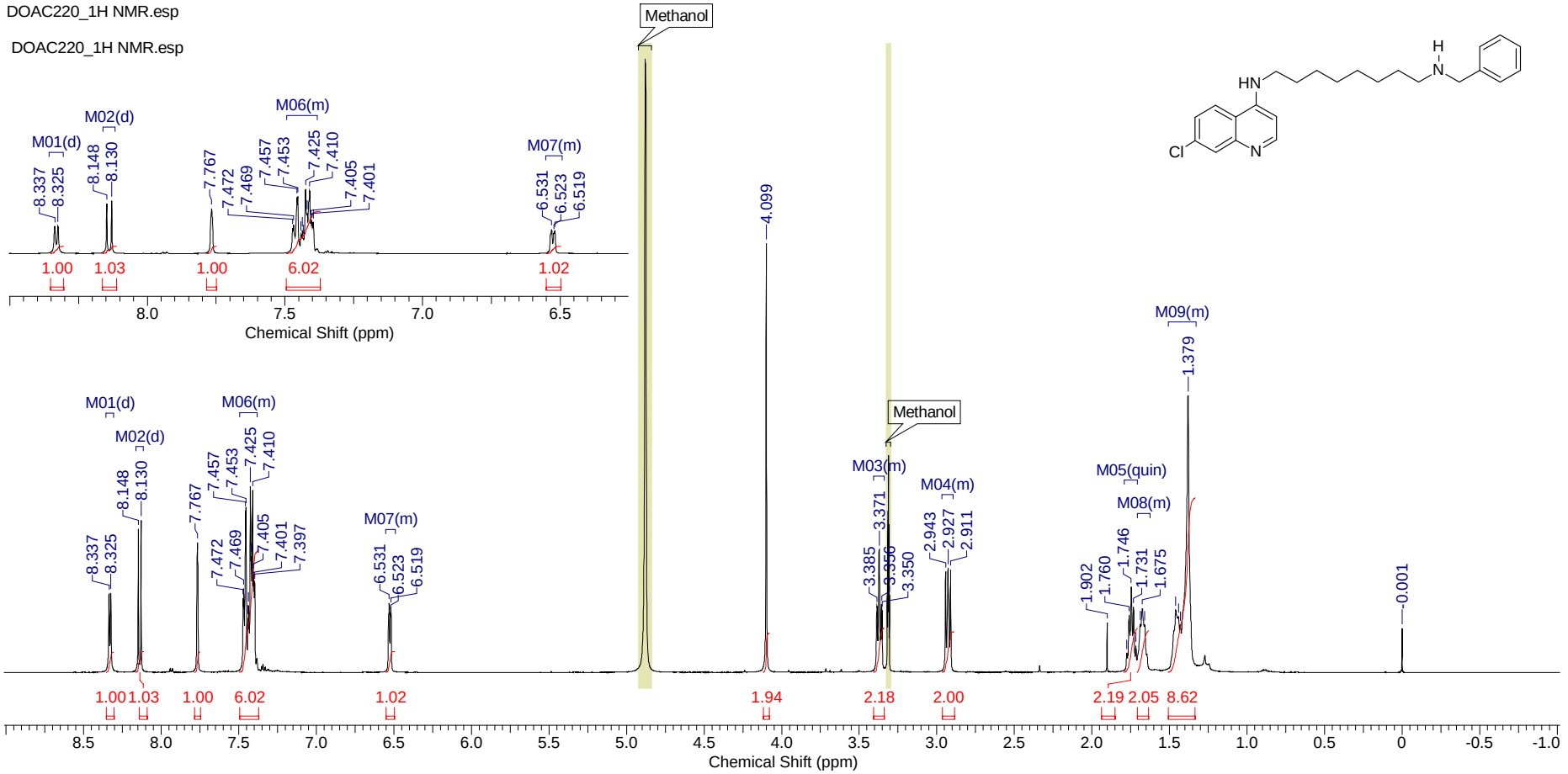

Compound 7: ^{13}C NMR spectrum (125 MHz, CD_3OD):

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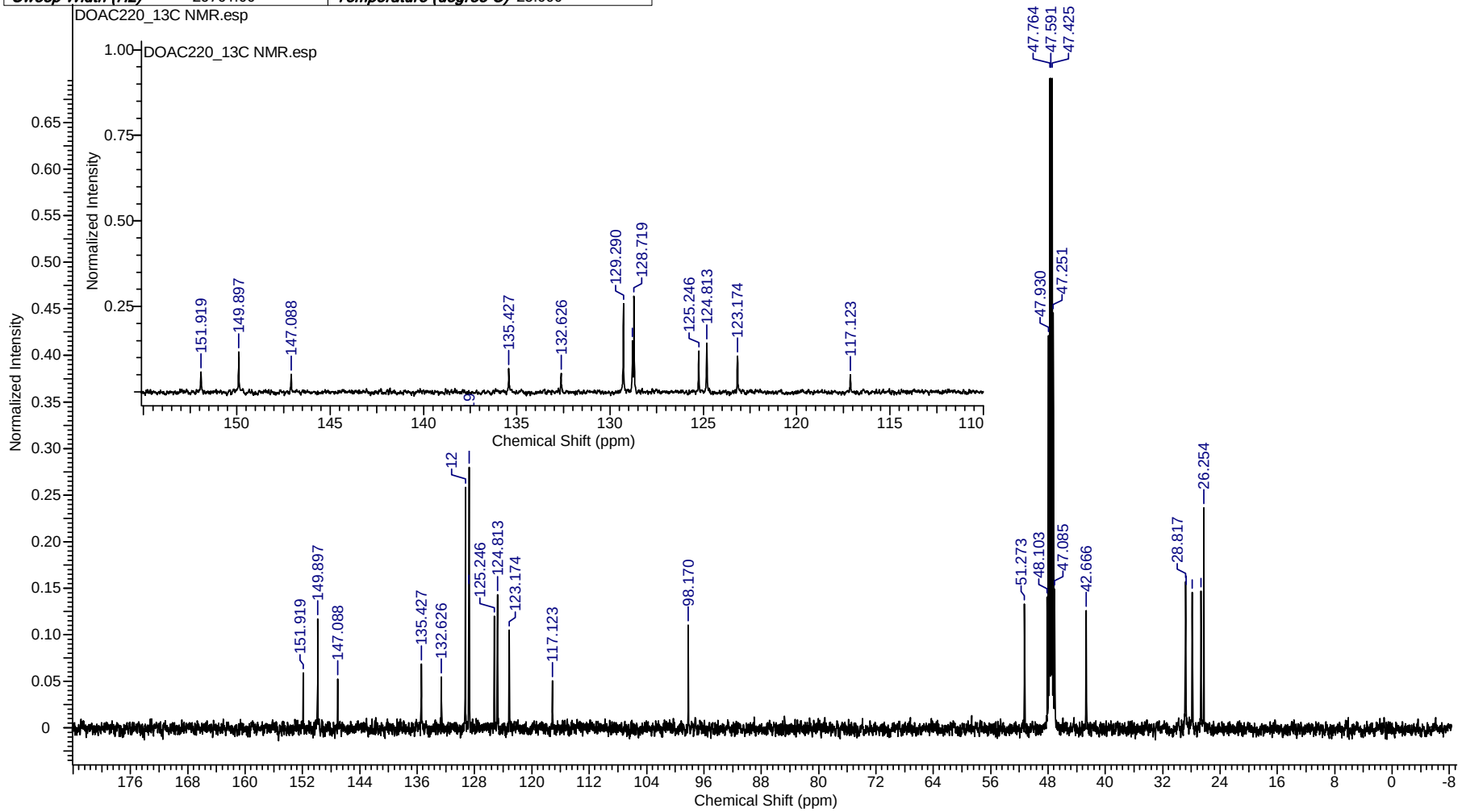

Compound 8: ^{1}H NMR spectrum (500 MHz, CD_3OD):

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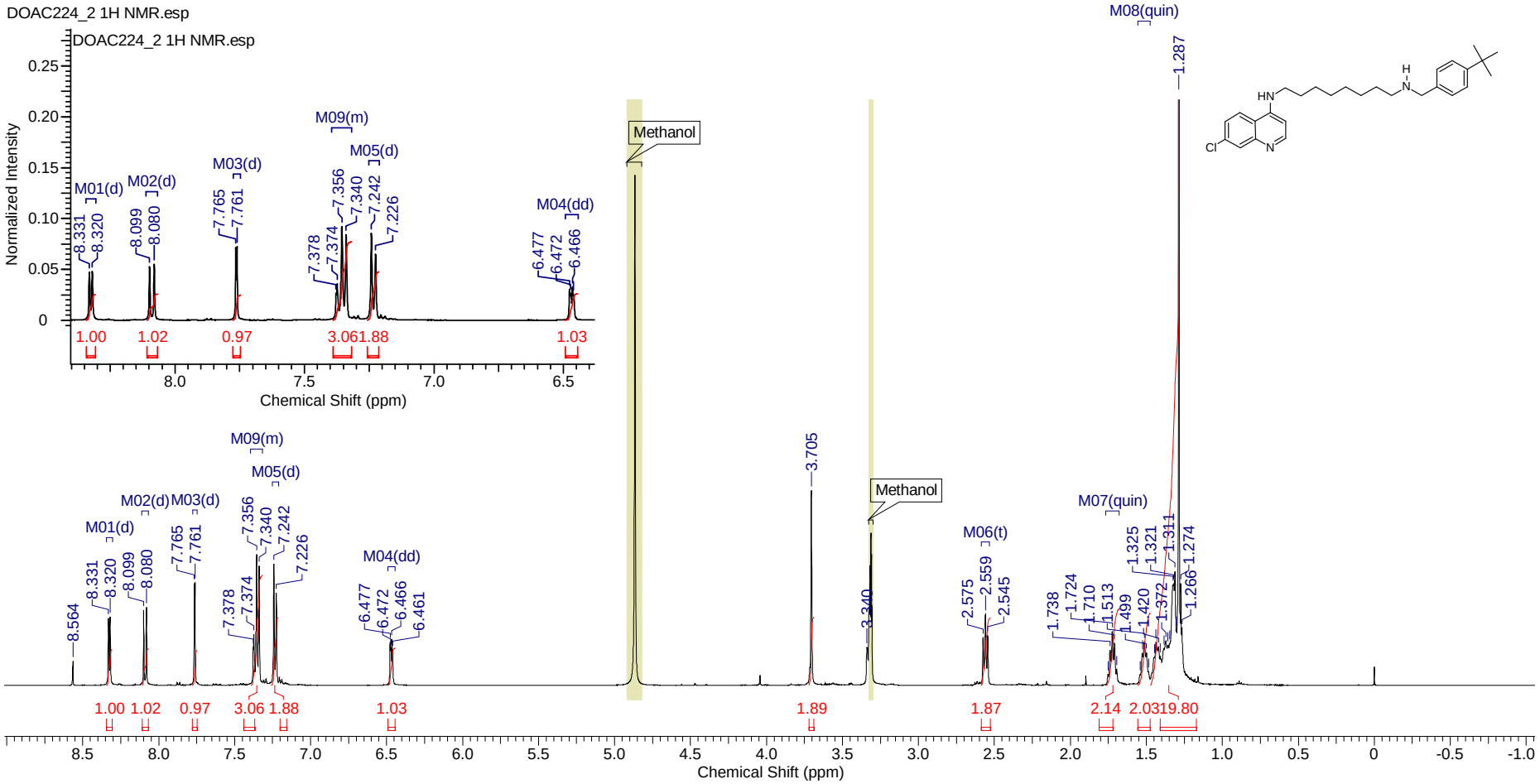

Compound 8: ^{13}C NMR spectrum (125 MHz, CD_3OD):

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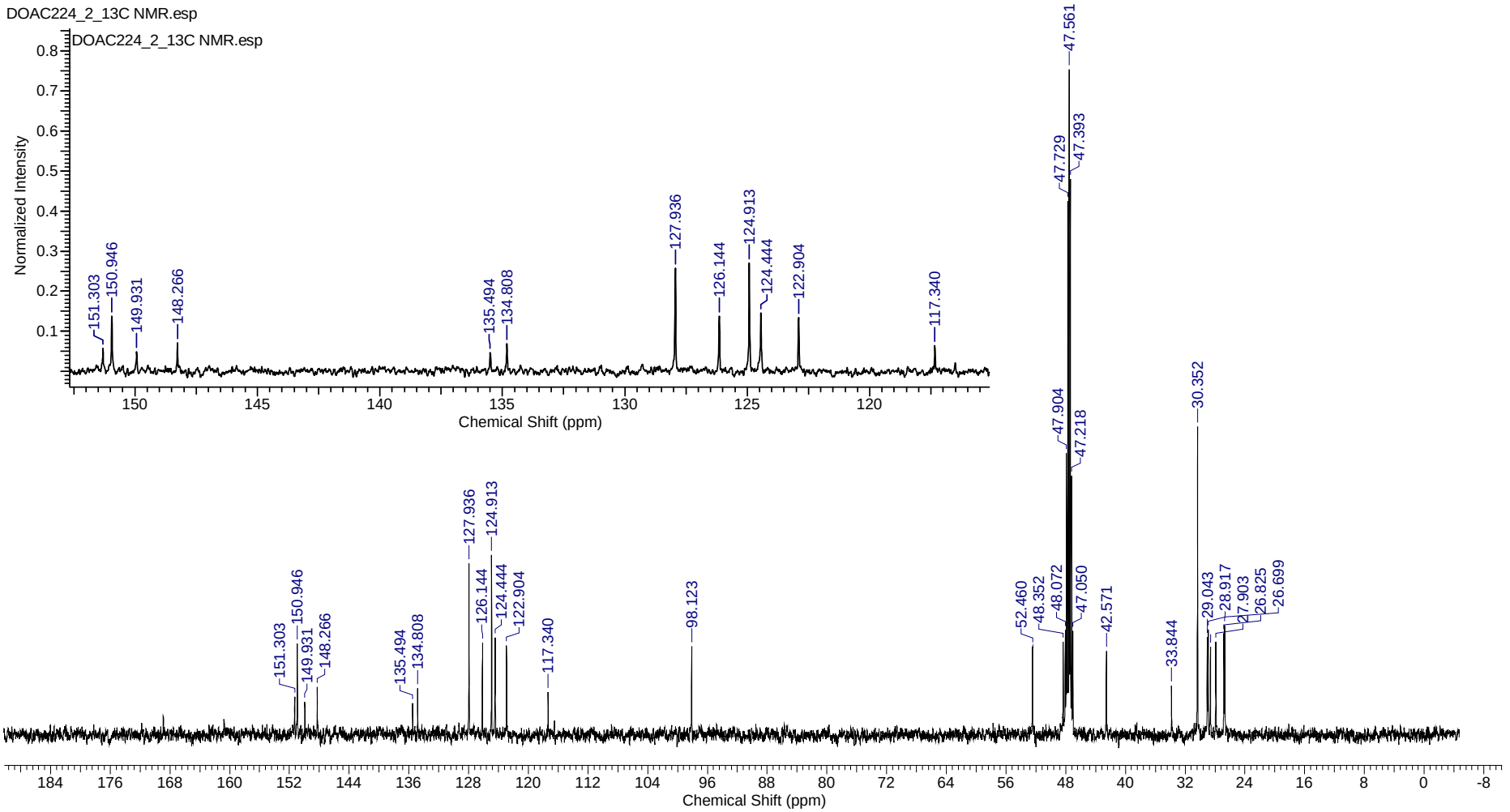

Compound 9: ^{1}H NMR spectrum (500 MHz, CD_3OD):

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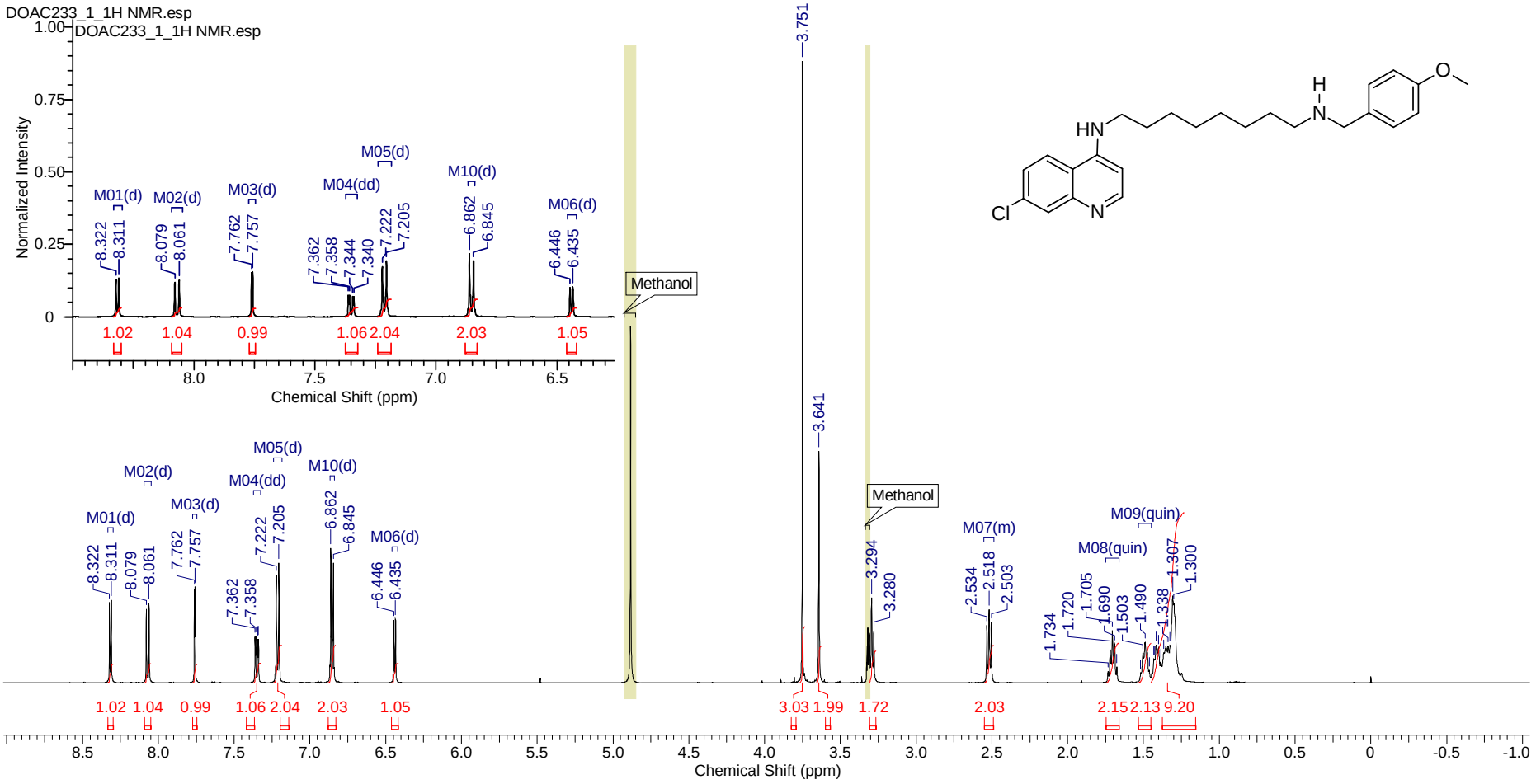

Compound 9: ^{13}C NMR spectrum (125 MHz, CD_3OD):

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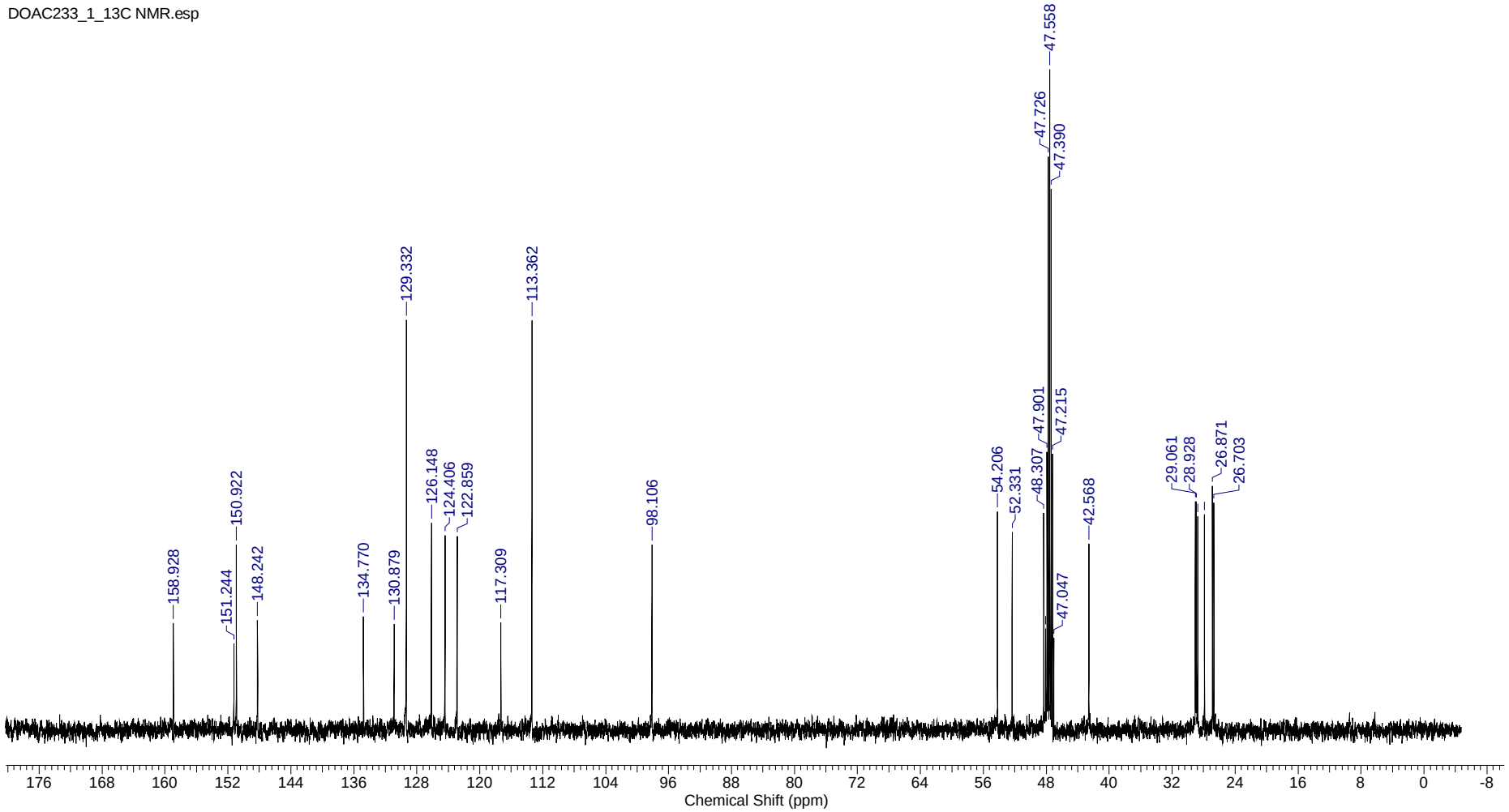
DOAC233_1_13C NMR.esp



Compound 10: ^{1}H NMR spectrum (500 MHz, CD_3OD):

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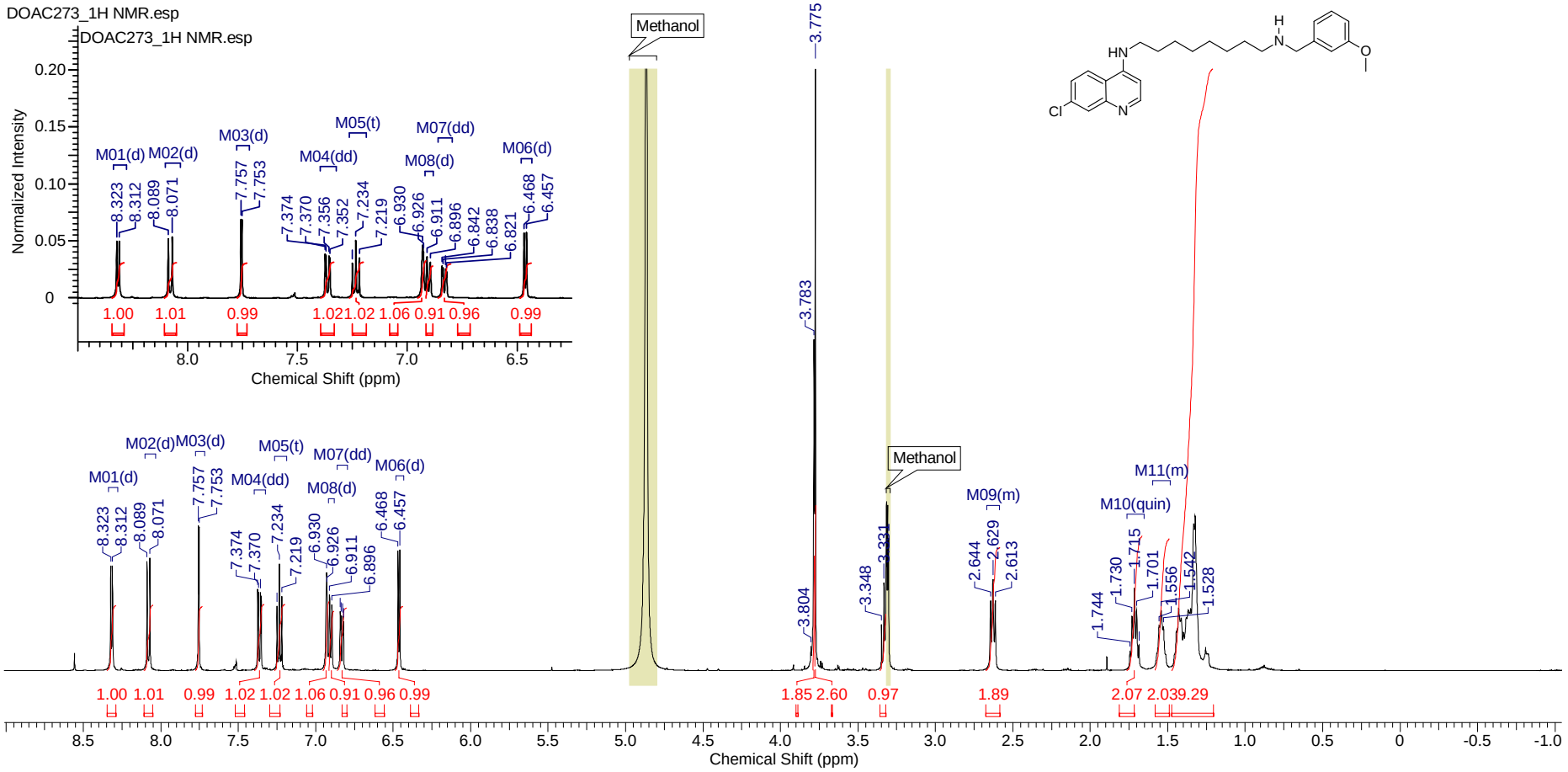

Compound 10: ^{13}C NMR spectrum (125 MHz, CD_3OD):

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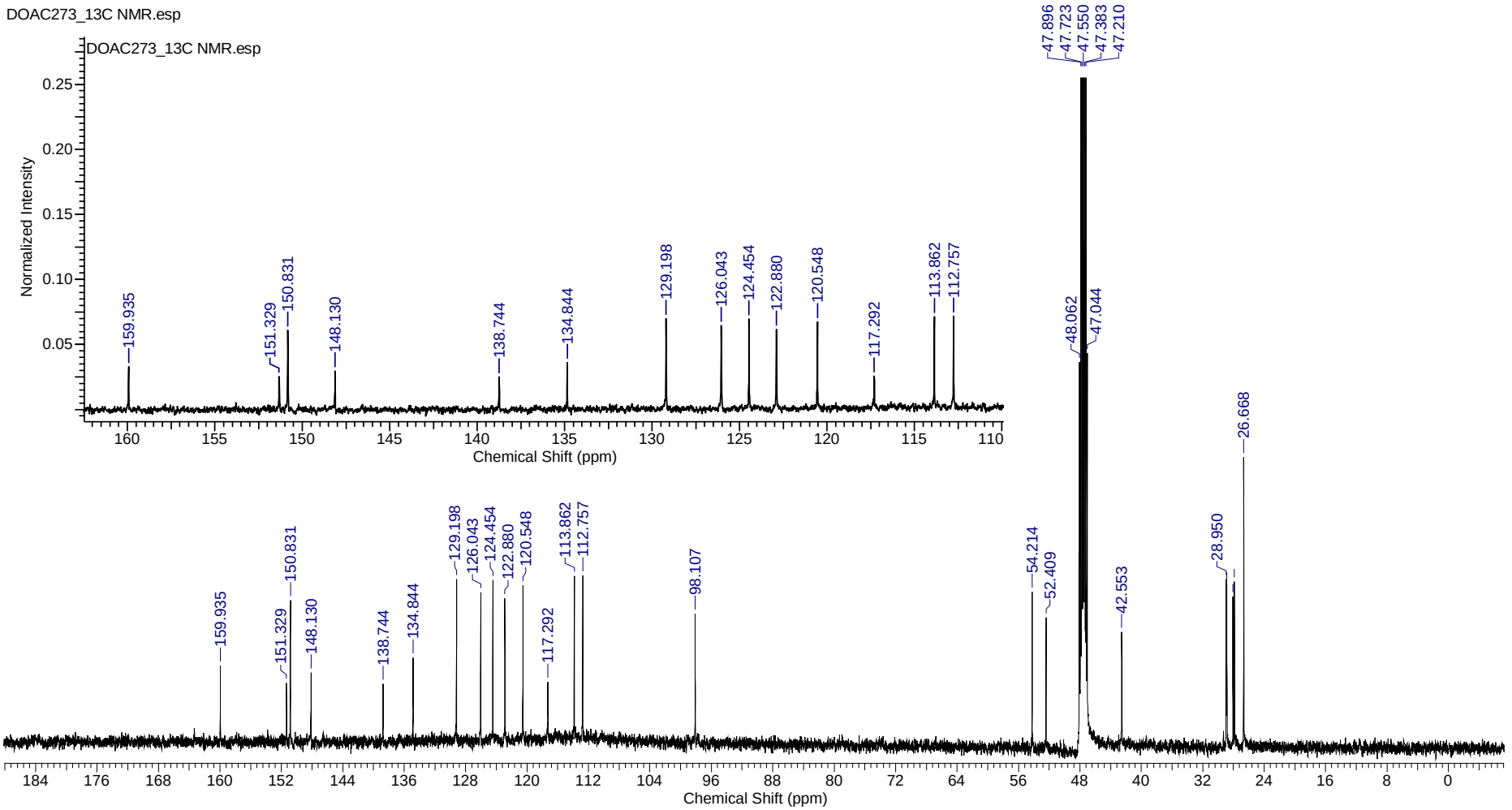

Compound 11: ^{1}H NMR spectrum (500 MHz, CD_3OD):

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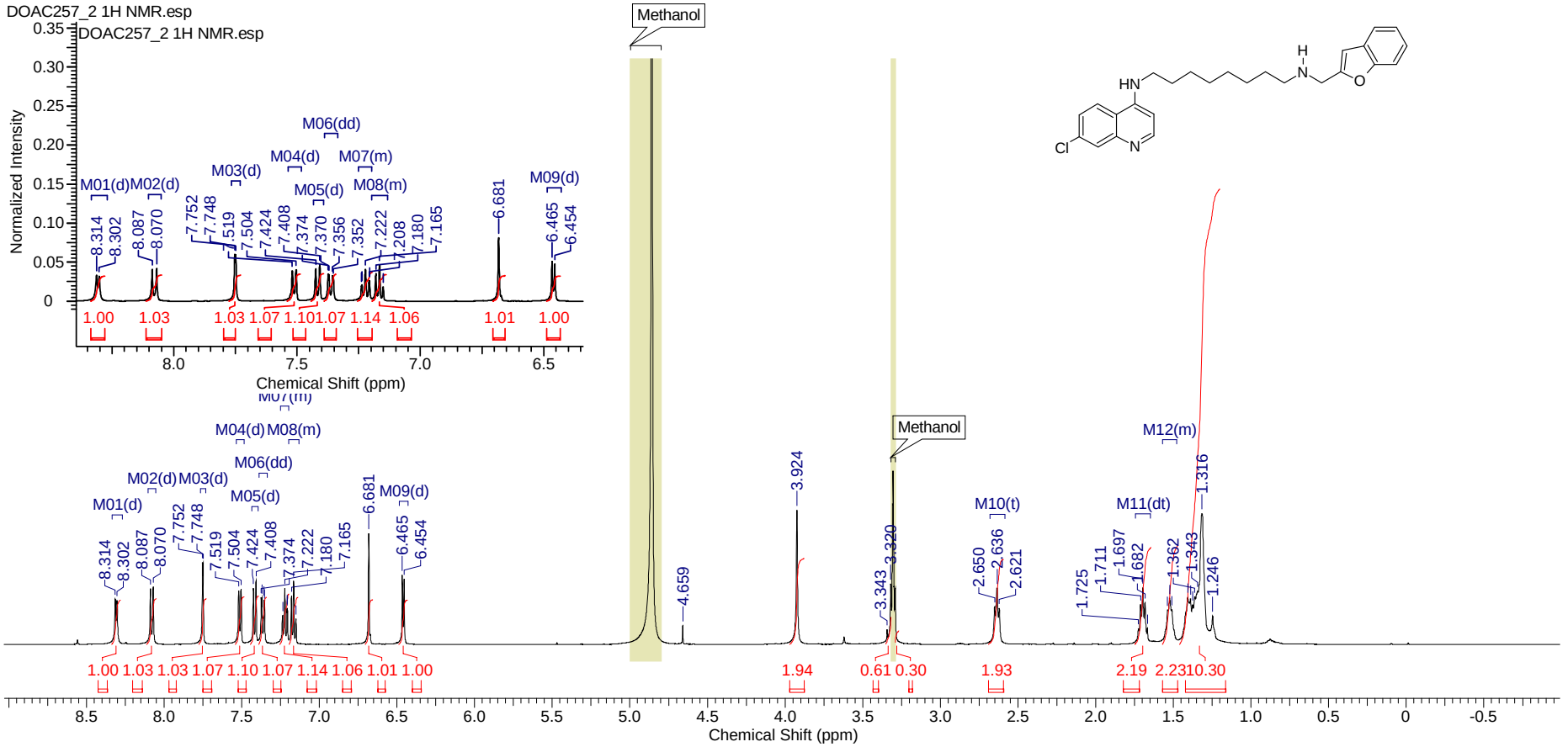
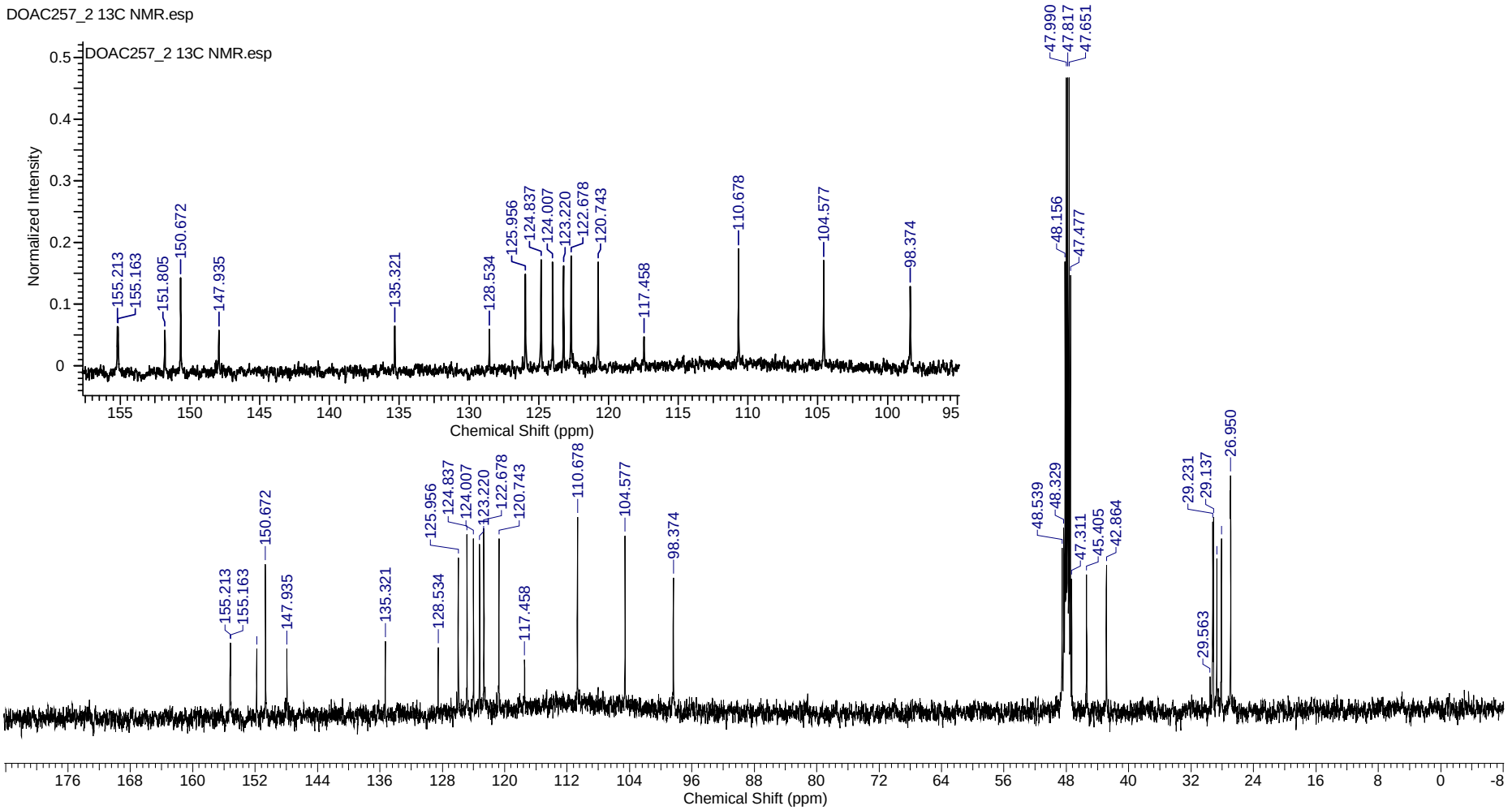
Nucleus	1H	***Number of Transients***	16	***Origin***	spect	***Original Points Count***	16384
Owner	nmrsu	***Points Count***	32768	***Pulse Sequence***	zg30	***Receiver Gain***	114.00
SW(cyclical) (Hz)	10000.00	***Solvent***	METHANOL-d4	***Spectrum Offset (Hz)***	4240.3477	***Spectrum Type***	STANDARD
Sweep Width (Hz)	9999.70	***Temperature (degree C)***	25.000				



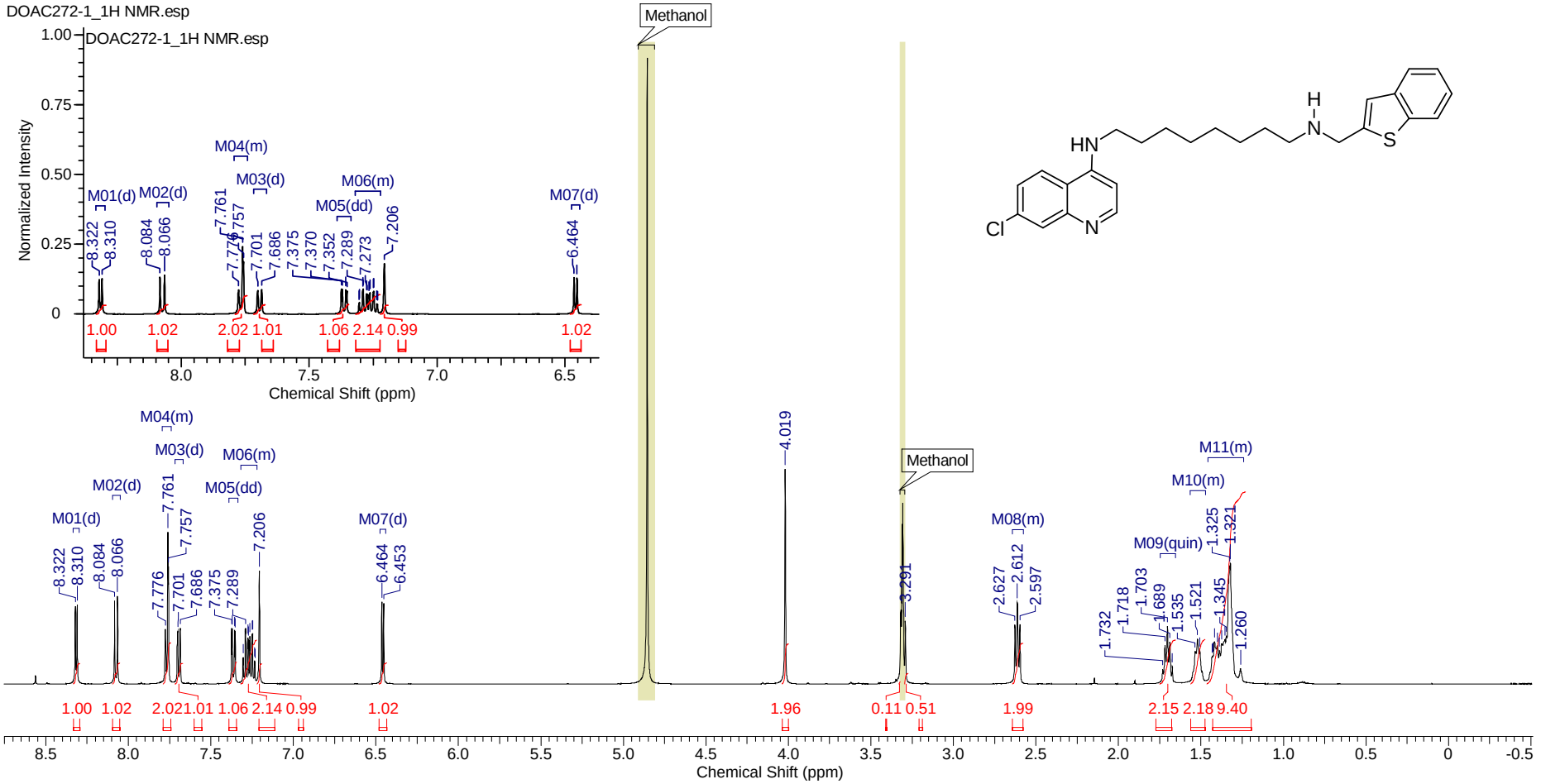
Compound 11: ^{13}C NMR spectrum (125 MHz, CD_3OD):

Acquisition Time (sec)	0.5505	***Comment***	Z8107_0241 (PH BBI 500S2 H-BB-D-05 Z)			***Date***	24 Jun 2017 11:55:12
Date Stamp	24 Jun 2017 11:55:12						
File Name	C:\Users\Dejan Opsenica\Documents\Radni dnevnik\DOAC\DOAC256_257\DOAC257_2\10\pdata\1\1r					***Frequency (MHz)***	125.79
Nucleus	13C	***Number of Transients***	347	***Origin***	spect	***Original Points Count***	16384
Owner	nmrsu	***Points Count***	32768	***Pulse Sequence***	zgpg30	***Receiver Gain***	203.00
SW(cyclical) (Hz)	29761.90	***Solvent***	METHANOL-d4	***Spectrum Offset (Hz)***	13861.8125	***Spectrum Type***	STANDARD
Sweep Width (Hz)	29761.00	***Temperature (degree C)***	25.100				



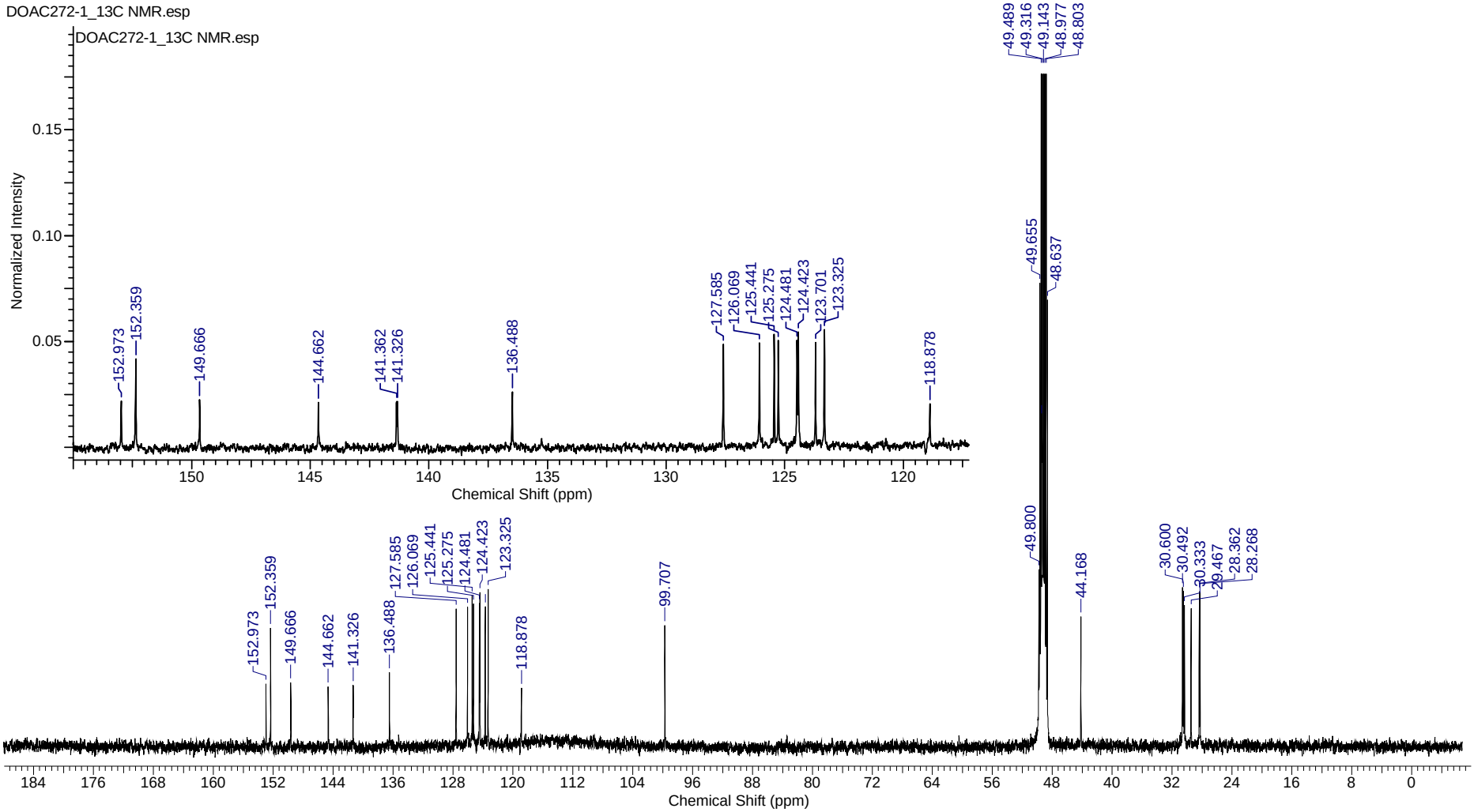
Compound 12: ^{1}H NMR spectrum (500 MHz, CD_3OD):

Acquisition Time (sec)	3.1894	***Comment***	Z8107_0241 (PH BBI 500S2 H-BB-D-05 Z)			***Date***	28 Sep 2017 10:59:44
Date Stamp	28 Sep 2017 10:59:44			***File Name***	C:\Users\Dejan Opsenica\Documents\Radni dnevnik\DOAC\DOAC272\DOAC272-1\1\pdata\1\1r		
Frequency (MHz)	500.26	***Nucleus***	1H	***Number of Transients***	16	***Origin***	spect
Original Points Count	16384	***Owner***	nmrsu	***Points Count***	32768	***Pulse Sequence***	zg30
Receiver Gain	71.80	***SW(cyclical) (Hz)***	5136.99	***Solvent***	METHANOL-d4	***Spectrum Offset (Hz)***	2315.9019
Spectrum Type	STANDARD	***Sweep Width (Hz)***	5136.83	***Temperature (degree C)***	25.000		



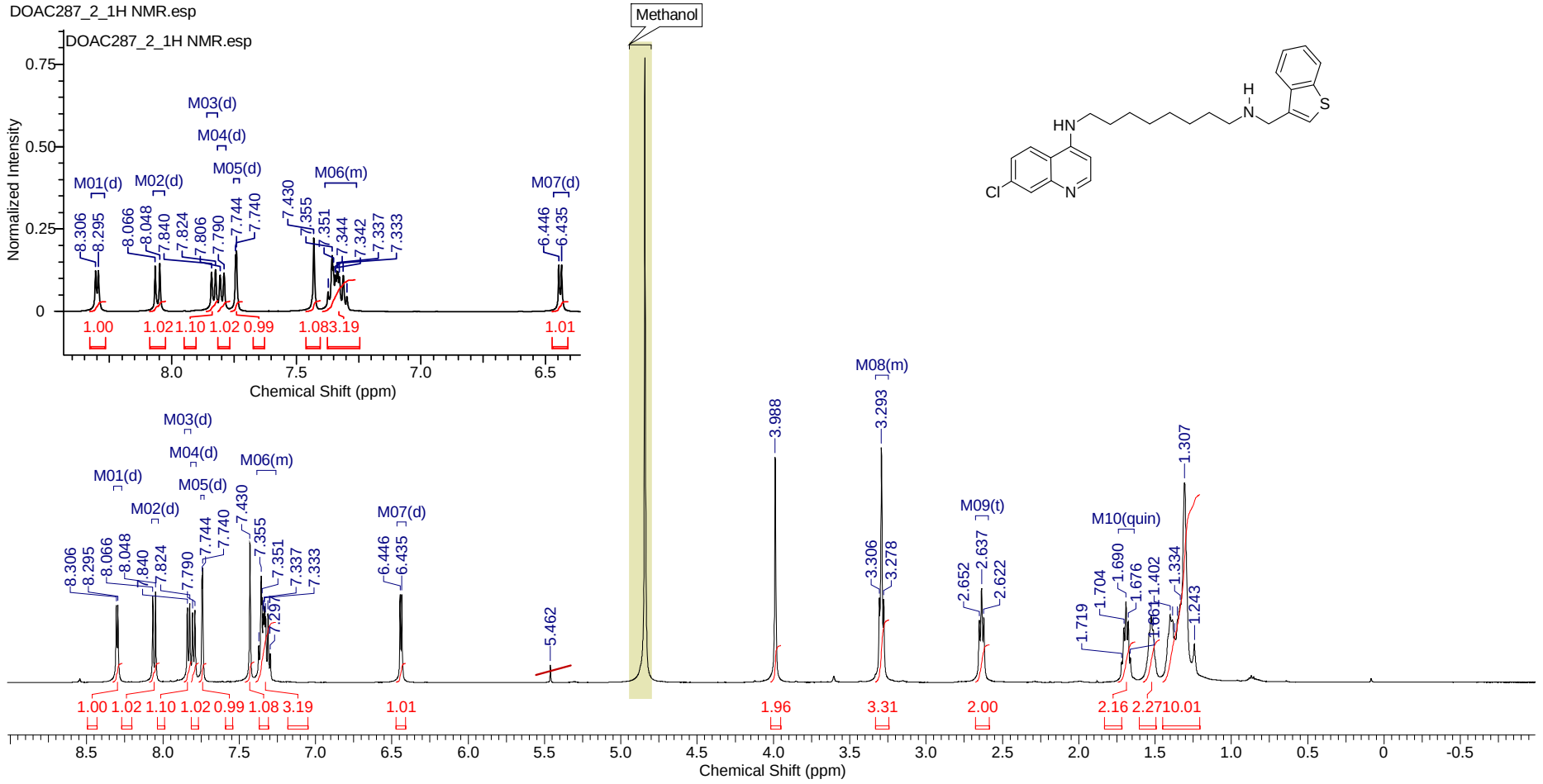
Compound 12: ^{13}C NMR spectrum (125 MHz, CD_3OD):

Acquisition Time (sec)	0.5505	*Comment*	Z8107_0241 (PH BBI 500S2 H-BB-D-05 Z)			*Date*	28 Sep 2017 11:40:16
Date Stamp	28 Sep 2017 11:40:16			*File Name*	C:\Users\Dejan Opsenica\Documents\Radni dnevnik\DOAC\DOAC272\DOAC272-1\2\pdata\1\1r		
Frequency (MHz)	125.79	*Nucleus*	13C	*Number of Transients*	801	*Origin*	spect
Original Points Count	16384	*Owner*	nmrsu	*Points Count*	32768	*Pulse Sequence*	zgpg30
Receiver Gain	203.00	*SW(cyclical) (Hz)*	29761.90	*Solvent*	METHANOL-d4	*Spectrum Offset (Hz)*	14030.3984
Spectrum Type	STANDARD	*Sweep Width (Hz)*	29761.00	*Temperature (degree C)*	25.000		



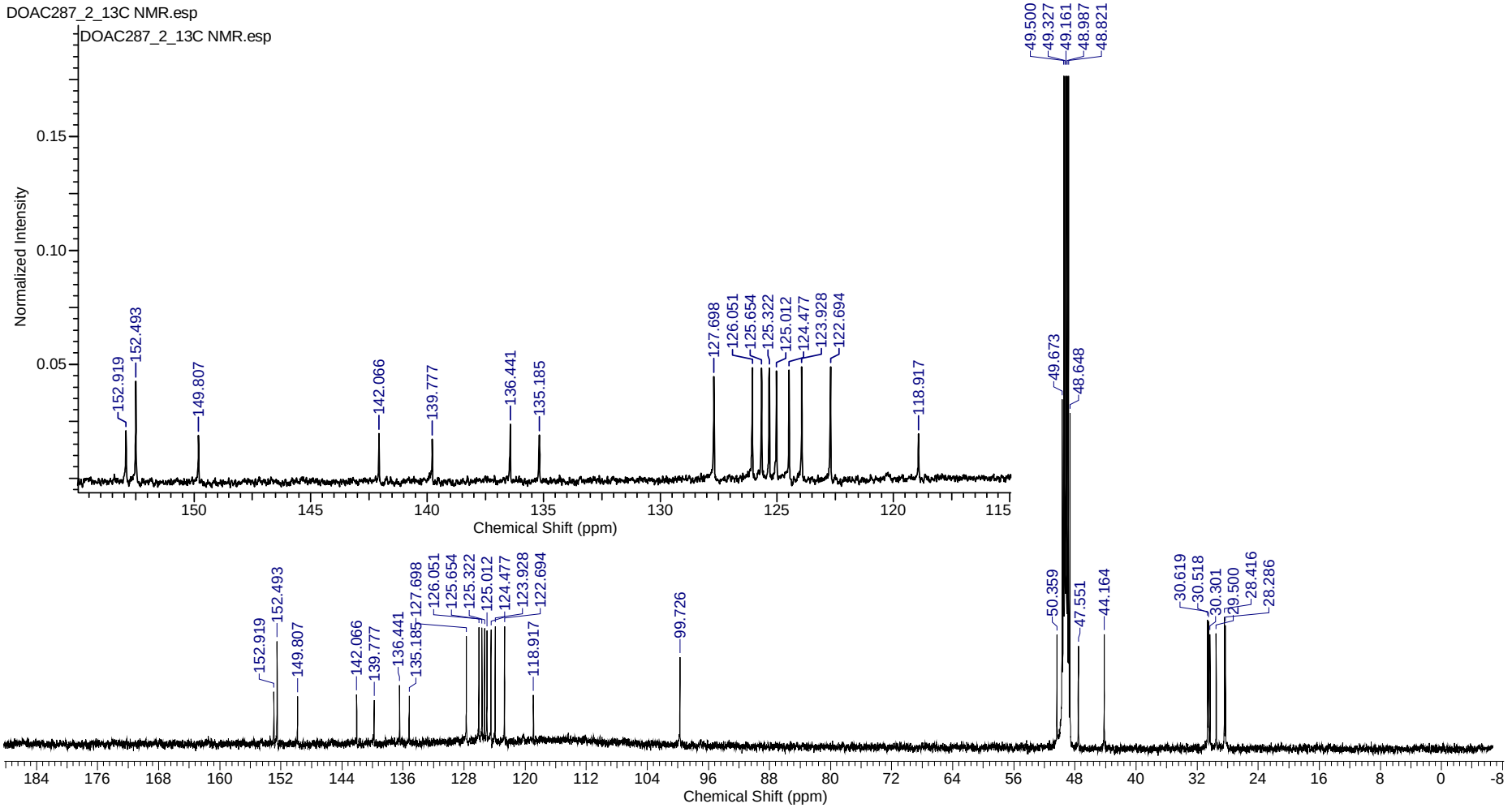
Compound 13: ^{1}H NMR spectrum (500 MHz, CD_3OD):

Acquisition Time (sec)	1.6384	***Comment***	Z8107_0241 (PH BBI 500S2 H-BB-D-05 Z)			***Date***	19 Jan 2018 12:31:12
Date Stamp	19 Jan 2018 12:31:12			***File Name***	C:\Users\Dejan Opsenica\Documents\Radni dnevnik\DOAC\DOAC287\DOAC287_2\1\pdata\1\1r		
Frequency (MHz)	500.26	***Nucleus***	1H	***Number of Transients***	16	***Origin***	spect
Original Points Count	16384	***Owner***	nmrsu	***Points Count***	32768	***Pulse Sequence***	zg30
Receiver Gain	101.00	***SW(cyclical) (Hz)***	10000.00	***Solvent***	METHANOL-d4	***Spectrum Offset (Hz)***	4234.4644
Spectrum Type	STANDARD	***Sweep Width (Hz)***	9999.70	***Temperature (degree C)***	25.000		



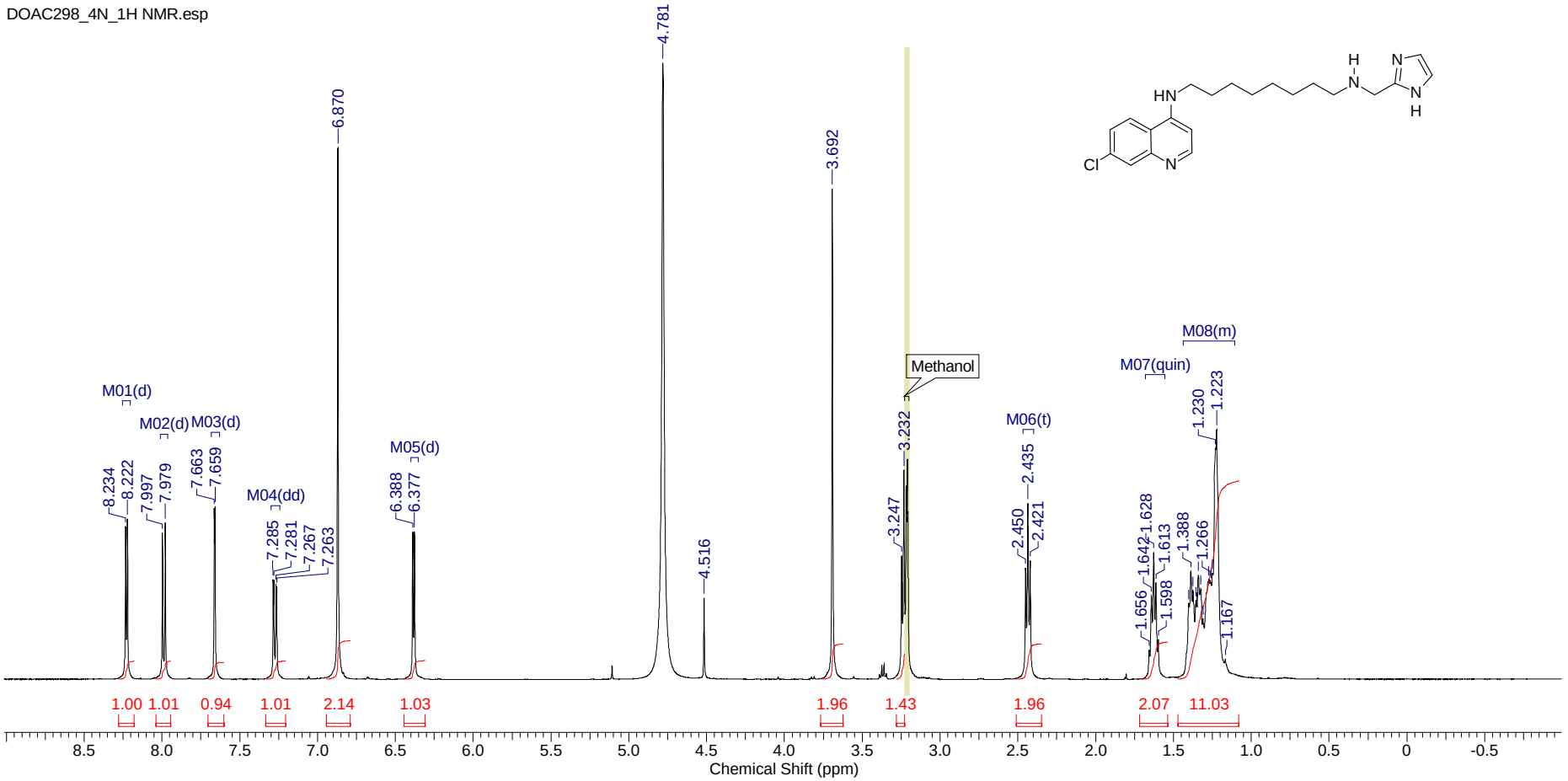
Compound 13: ^{13}C NMR spectrum (125 MHz, CD_3OD):

Acquisition Time (sec)	0.5505	***Comment***	Z8107_0241 (PH BBI 500S2 H-BB-D-05 Z)			***Date***	19 Jan 2018 13:30:56
Date Stamp	19 Jan 2018 13:30:56						
File Name	C:\Users\Dejan Opsenica\Documents\Radni dnevnik\DOAC\DOAC287\DOAC287_2\10\pdata\1\1r					***Frequency (MHz)***	125.79
Nucleus	13C	***Number of Transients***	1365	***Origin***	spect	***Original Points Count***	16384
Owner	nmrsu	***Points Count***	32768	***Pulse Sequence***	zgpg30	***Receiver Gain***	203.00
SW(cyclical) (Hz)	29761.90	***Solvent***	METHANOL-d4	***Spectrum Offset (Hz)***	14031.7803	***Spectrum Type***	STANDARD
Sweep Width (Hz)	29761.00	***Temperature (degree C)***	25.000				



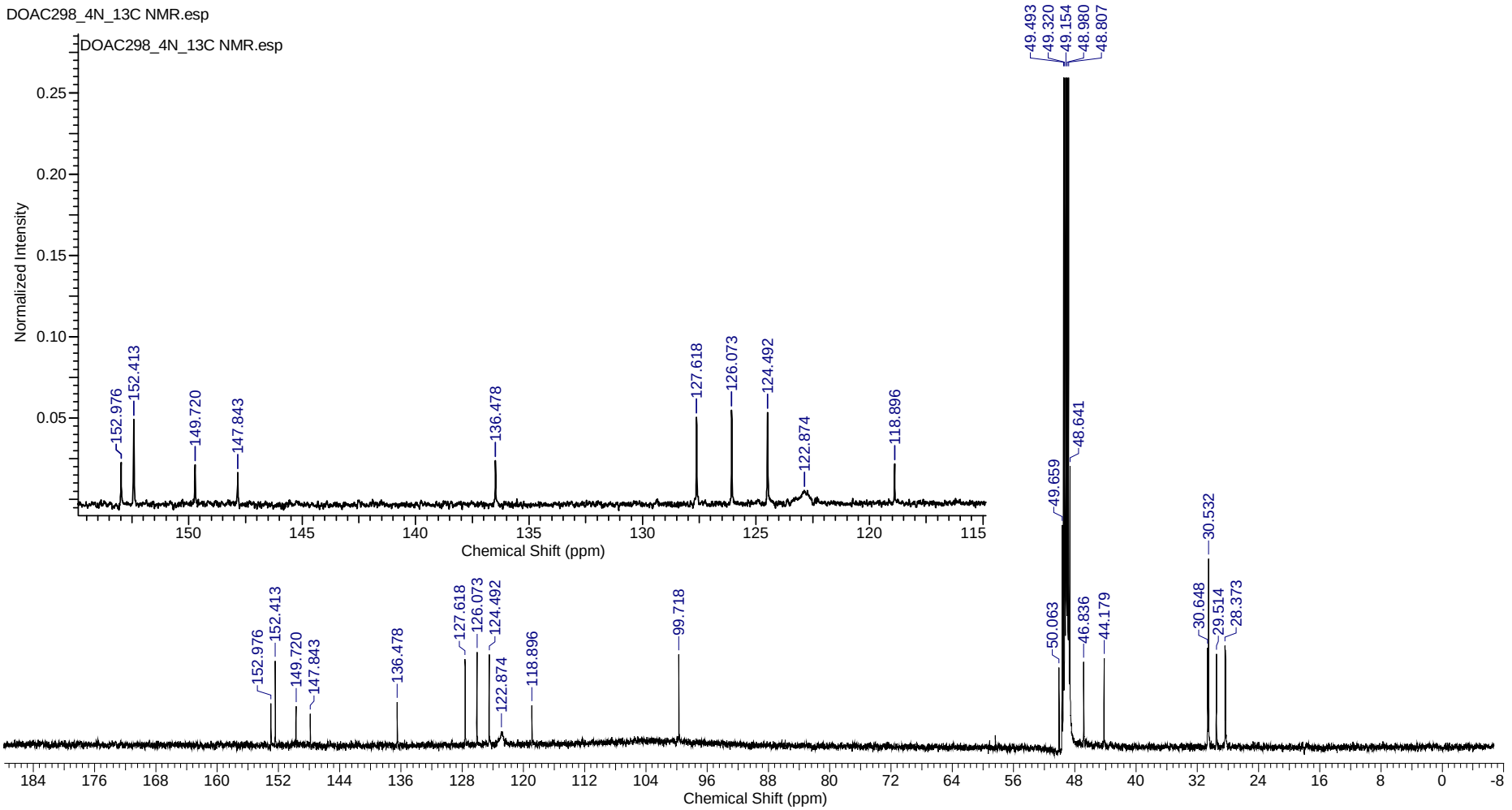
Compound 14: ^{1}H NMR spectrum (500 MHz, CD_3OD):

Acquisition Time (sec)	1.6384	***Comment***	Z8107_0241 (PH BBI 500S2 H-BB-D-05 Z)			***Date***	04 Jun 2018 09:21:36
Date Stamp	04 Jun 2018 09:21:36			***File Name***	C:\Users\Dejan Opsenica\Documents\Radni dnevnik\DOAC\DOAC298\DOAC298_4N\1\pdata\1\1r		
Frequency (MHz)	500.26	***Nucleus***	1H	***Number of Transients***	16	***Origin***	spect
Original Points Count	16384	***Owner***	nmrsu	***Points Count***	32768	***Pulse Sequence***	zg30
Receiver Gain	71.80	***SW(cyclical) (Hz)***	10000.00	***Solvent***	METHANOL-d4	***Spectrum Offset (Hz)***	4192.9839
Spectrum Type	STANDARD	***Sweep Width (Hz)***	9999.70	***Temperature (degree C)***	25.000		



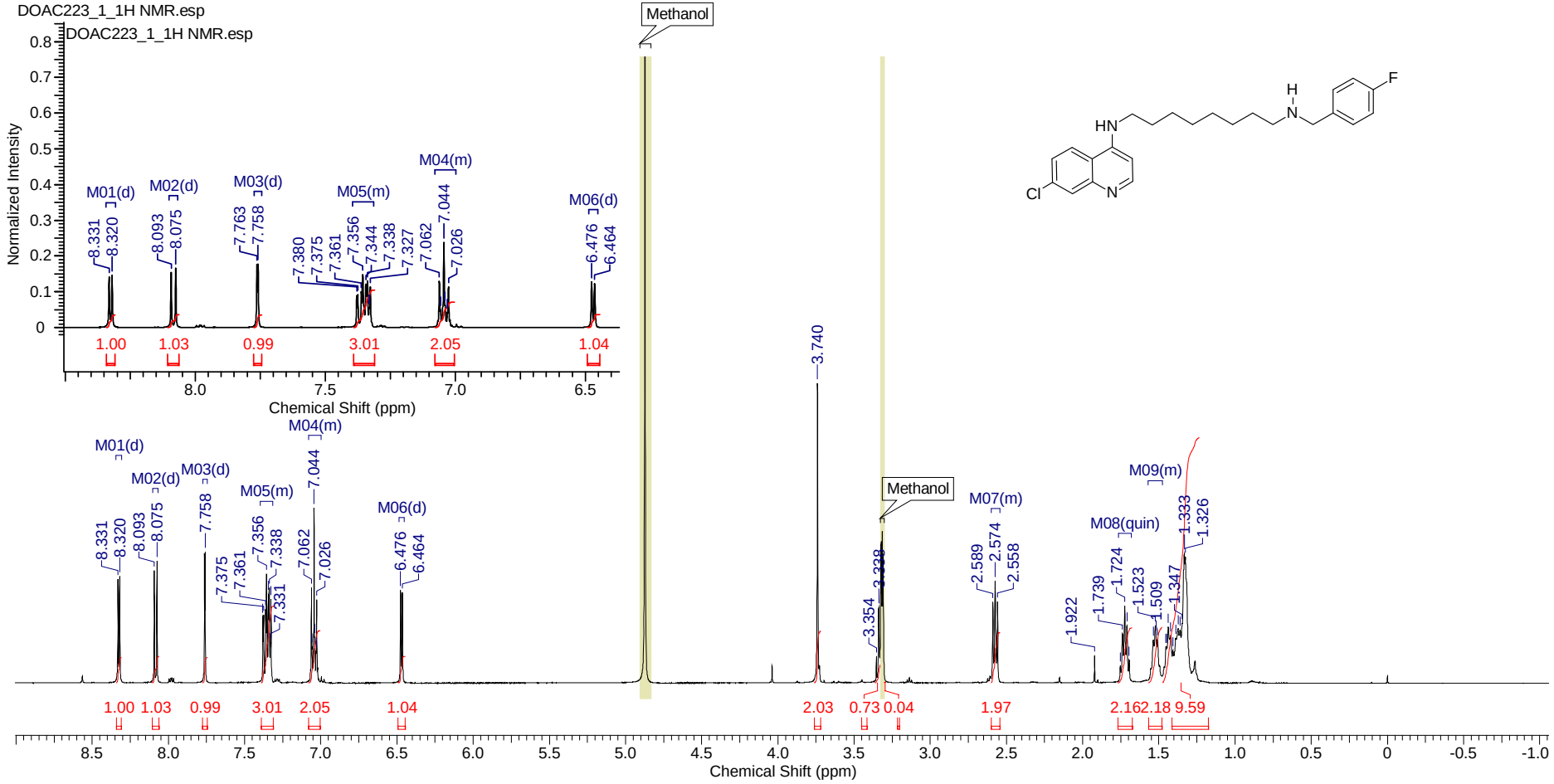
Compound 14: ^{13}C NMR spectrum (125 MHz, CD_3OD):

Acquisition Time (sec)	0.5505	***Comment***	Z8107_0241 (PH BBI 500S2 H-BB-D-05 Z)			***Date***	04 Jun 2018 10:12:48
Date Stamp	04 Jun 2018 10:12:48						
File Name	C:\Users\Dejan Opsenica\Documents\Radni dnevnik\DOAC\DOAC298\DOAC298_4N\10\pdata\1\1r					***Frequency (MHz)***	125.79
Nucleus	13C	***Number of Transients***	1181	***Origin***	spect	***Original Points Count***	16384
Owner	nmrsu	***Points Count***	32768	***Pulse Sequence***	zgpg30	***Receiver Gain***	203.00
SW(cyclical) (Hz)	29761.90	***Solvent***	METHANOL-d4	***Spectrum Offset (Hz)***	14031.7803	***Spectrum Type***	STANDARD
Sweep Width (Hz)	29761.00	***Temperature (degree C)***	25.000				



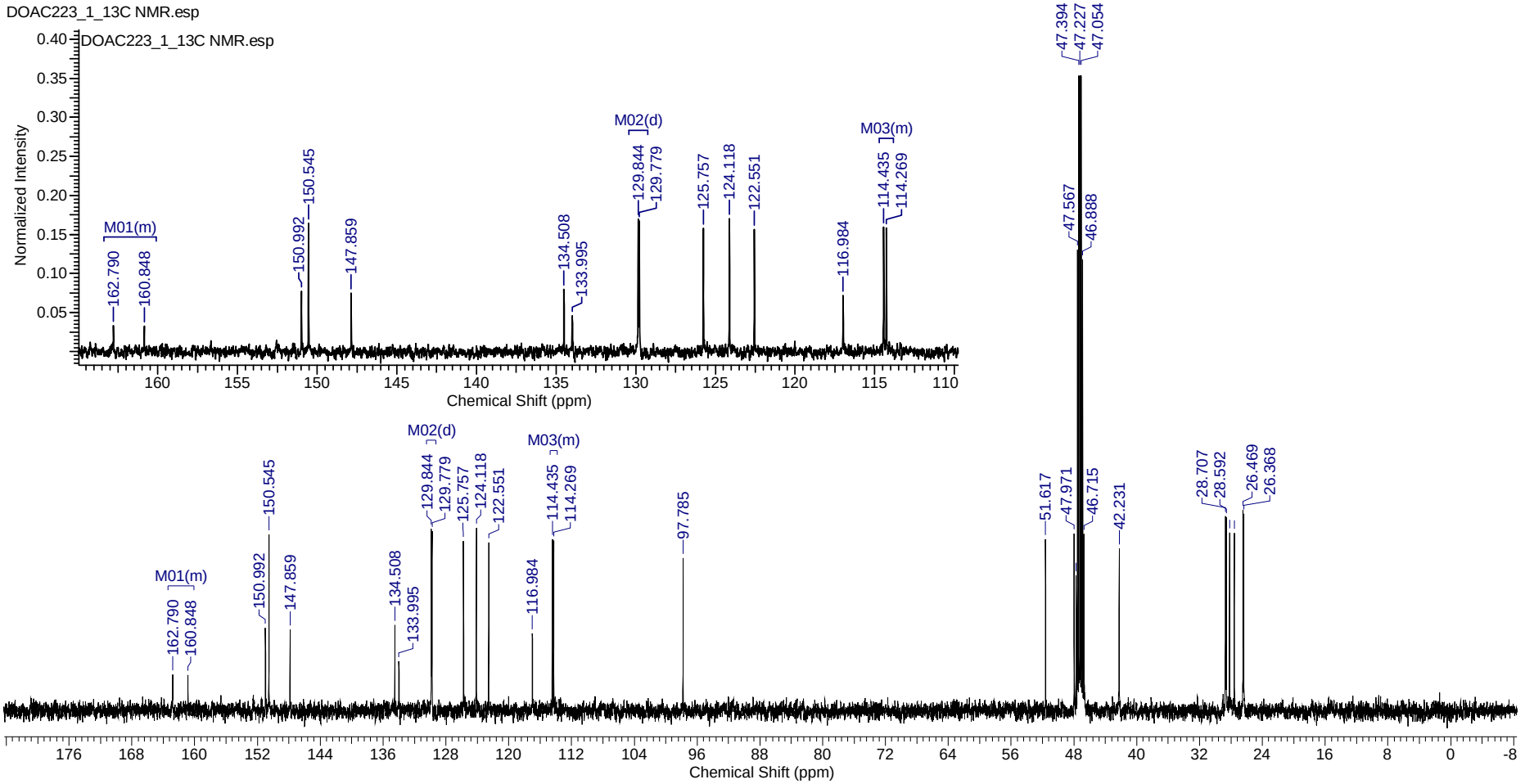
Compound 15: ^{1}H NMR spectrum (500 MHz, CD_3OD):

Number of Nuclei 15 H's							
Acquisition Time (sec)	1.6384	***Comment***	Z8007_0118 (PH BBO 500S2 BB-H-D-05 Z)			***Date***	18 Jan 2017 15:45:20
Date Stamp	18 Jan 2017 15:45:20			***File Name***	C:\Users\Dejan Opsenica\Documents\Radni dnevnik\DOAC\DOAC223\DOAC223_1\1\pdata\1\1r		
Frequency (MHz)	500.26	***Nucleus***	1H	***Number of Transients***	8	***Origin***	spect
Original Points Count	16384	***Owner***	nmrsu	***Points Count***	32768	***Pulse Sequence***	zg30
Receiver Gain	144.00	***SW(cyclical) (Hz)***	10000.00	***Solvent***	METHANOL-d4	***Spectrum Offset (Hz)***	4245.1099
Spectrum Type	STANDARD	***Sweep Width (Hz)***	9999.70	***Temperature (degree C)***	25.000		



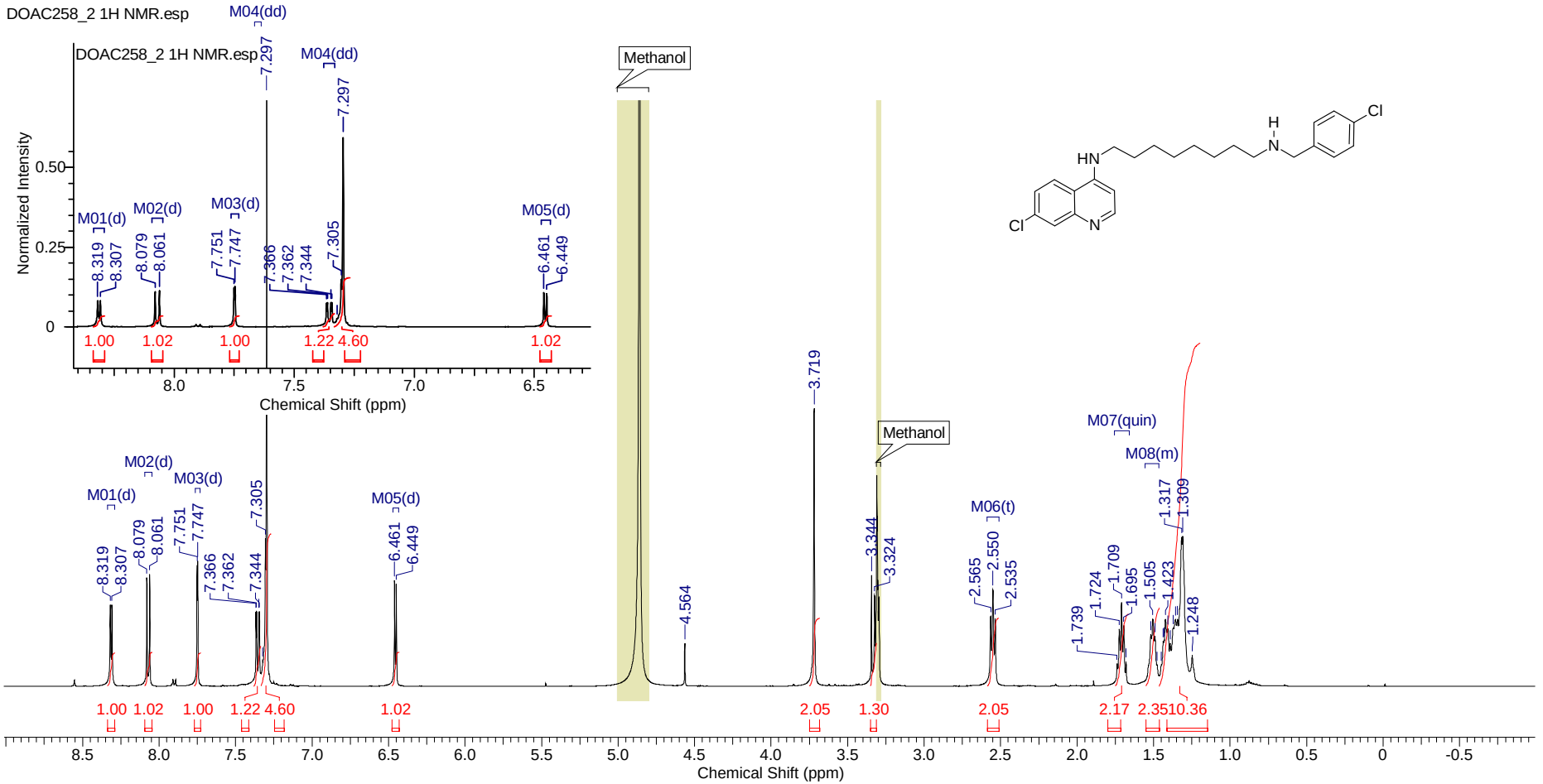
Compound 15: ^{13}C NMR spectrum (125 MHz, CD_3OD):

Acquisition Time (sec)	0.5505	***Comment***	Z8007_0118 (PH BBO 500S2 BB-H-D-05 Z)			***Date***	18 Jan 2017 15:51:44
Date Stamp	18 Jan 2017 15:51:44			***File Name***	C:\Users\Dejan Opsenica\Documents\Radni dnevnik\DOAC\DOAC223\DOAC223_1\2\pdata\1\1r		
Frequency (MHz)	125.79	***Nucleus***	13C	***Number of Transients***	128	***Origin***	spect
Original Points Count	16384	***Owner***	nmrsu	***Points Count***	32768	***Pulse Sequence***	zgpg30
Receiver Gain	203.00	***SW(cyclical) (Hz)***	29761.90	***Solvent***	METHANOL-d4	***Spectrum Offset (Hz)***	13788.5947
Spectrum Type	STANDARD	***Sweep Width (Hz)***	29761.00	***Temperature (degree C)***	25.200		



Compound 16: ^{1}H NMR spectrum (500 MHz, CD_3OD):

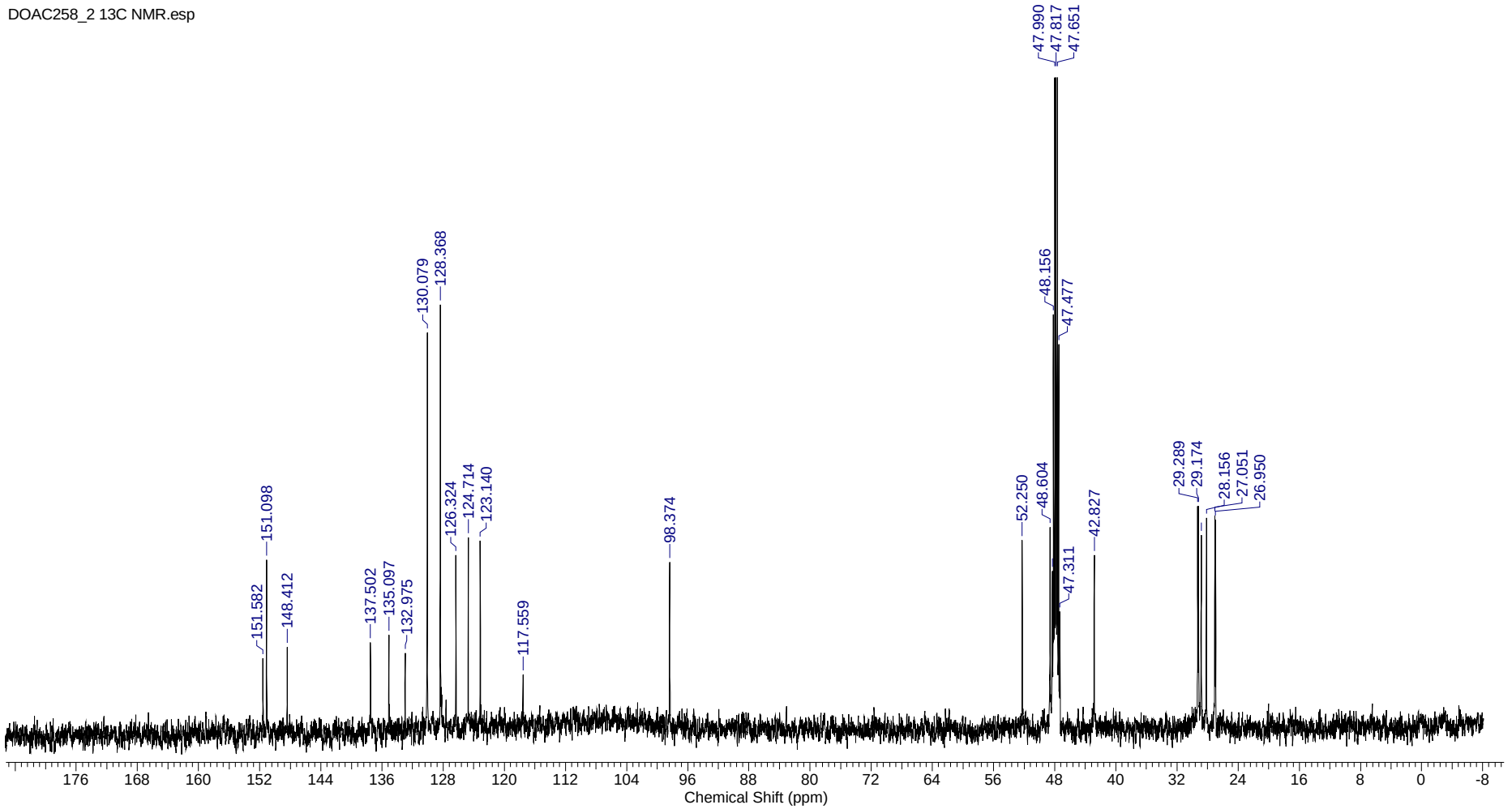
Acquisition Time (sec)	1.6384	***Comment***	Z8107_0241 (PH BBI 500S2 H-BB-D-05 Z)			***Date***	24 Jun 2017 11:25:20
Date Stamp	24 Jun 2017 11:25:20			***File Name***	C:\Users\Dejan Opsenica\Documents\Radni dnevnik\DOAC\DOAC258\DOAC258_2\1\pdata\1\1r		
Frequency (MHz)	500.26	***Nucleus***	1H	***Number of Transients***	16	***Origin***	spect
Original Points Count	16384	***Owner***	nmrsu	***Points Count***	32768	***Pulse Sequence***	zg30
Receiver Gain	114.00	***SW(cyclical) (Hz)***	10000.00	***Solvent***	METHANOL-d4	***Spectrum Offset (Hz)***	4240.3477
Spectrum Type	STANDARD	***Sweep Width (Hz)***	9999.70	***Temperature (degree C)***	25.000		



Compound 16: ^{13}C NMR spectrum (125 MHz, CD_3OD):

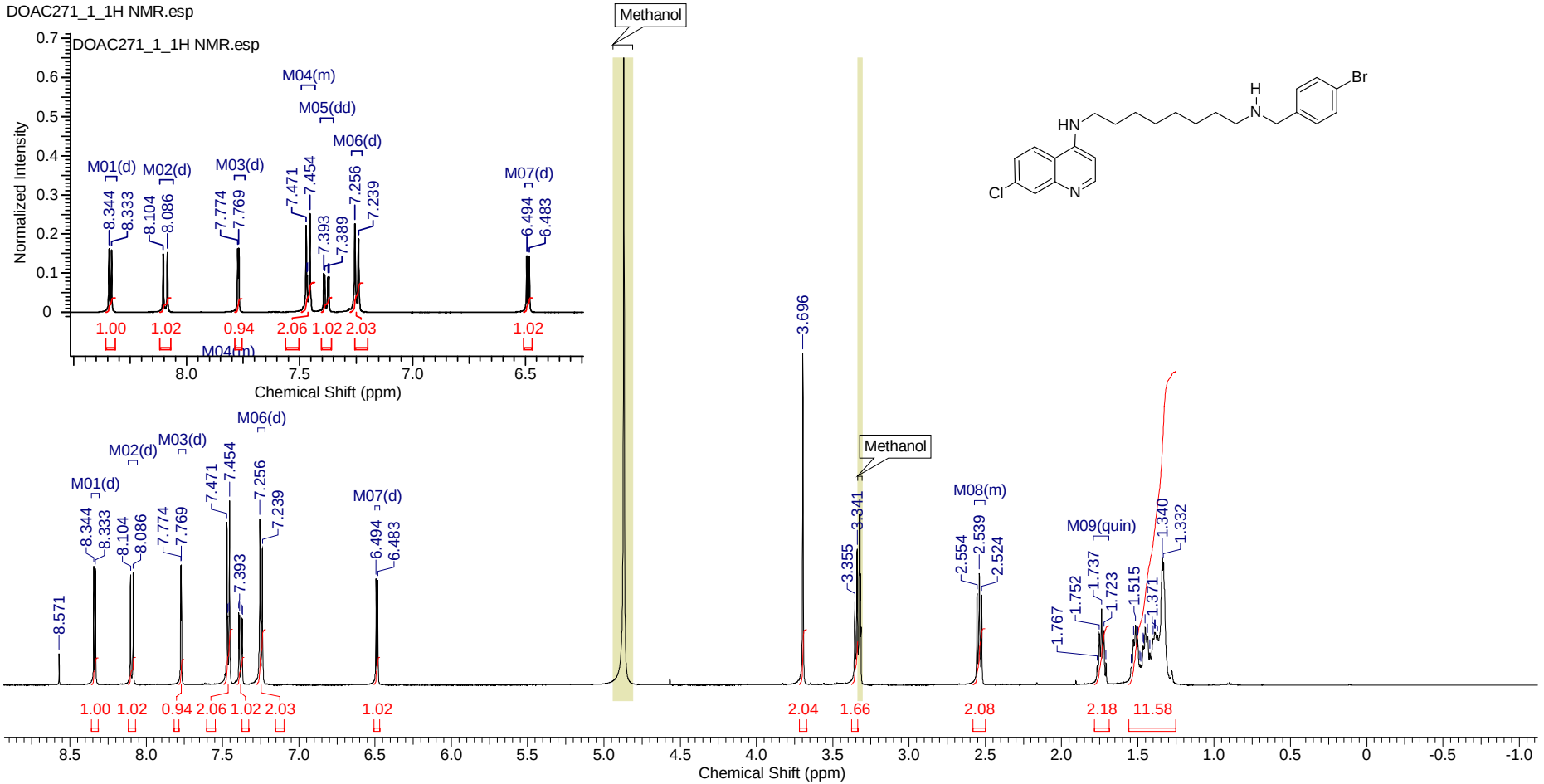
Acquisition Time (sec)	0.5505	***Comment***	Z8107_0241 (PH BBI 500S2 H-BB-D-05 Z)			***Date***	24 Jun 2017 11:33:52
Date Stamp	24 Jun 2017 11:33:52						
File Name	C:\Users\Dejan Opsenica\Documents\Radni dnevnik\DOAC\DOAC258\DOAC258_2\10\pdata\1\1r					***Frequency (MHz)***	125.79
Nucleus	13C	***Number of Transients***	205	***Origin***	spect	***Original Points Count***	16384
Owner	nmrsu	***Points Count***	32768	***Pulse Sequence***	zgpg30	***Receiver Gain***	203.00
SW(cyclical) (Hz)	29761.90	***Solvent***	METHANOL-d4	***Spectrum Offset (Hz)***	13861.8125	***Spectrum Type***	STANDARD
Sweep Width (Hz)	29761.00	***Temperature (degree C)***	25.100				

DOAC258_2 13C NMR.esp



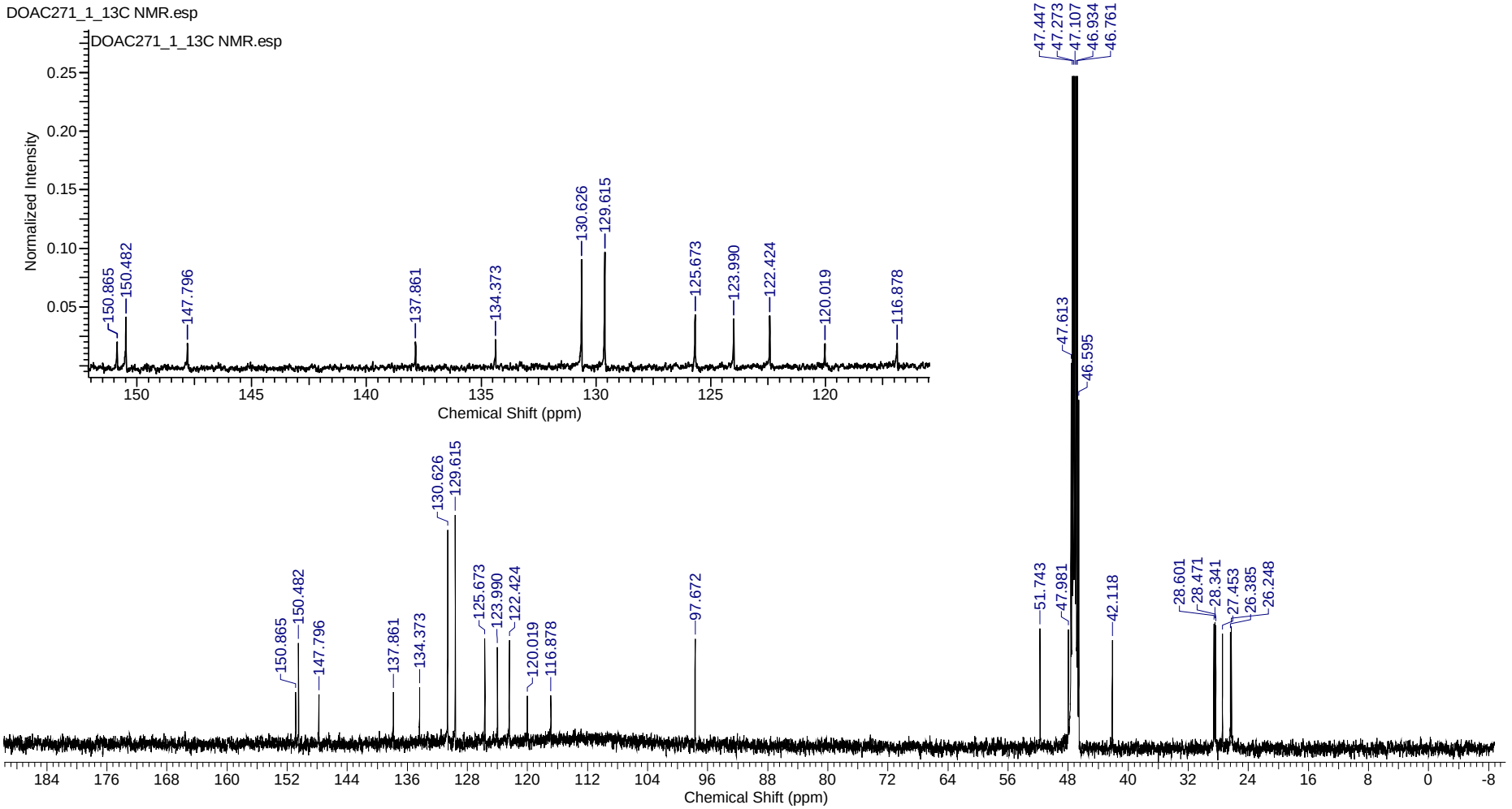
Compound 17: ^{1}H NMR spectrum (500 MHz, CD_3OD):

Acquisition Time (sec)	1.6384	***Comment***	Z8107_0241 (PH BBI 500S2 H-BB-D-05 Z)			***Date***	13 Sep 2017 13:22:40
Date Stamp	13 Sep 2017 13:22:40			***File Name***	C:\Users\Dejan Opsenica\Documents\Radni dnevnik\DOAC\DOAC271\DOAC271_1\1\pdata\1\1r		
Frequency (MHz)	500.26	***Nucleus***	1H	***Number of Transients***	8	***Origin***	spect
Original Points Count	16384	***Owner***	nmrsu	***Points Count***	32768	***Pulse Sequence***	zg30
Receiver Gain	203.00	***SW(cyclical) (Hz)***	10000.00	***Solvent***	METHANOL-d4	***Spectrum Offset (Hz)***	4248.2368
Spectrum Type	STANDARD	***Sweep Width (Hz)***	9999.70	***Temperature (degree C)***	25.000		



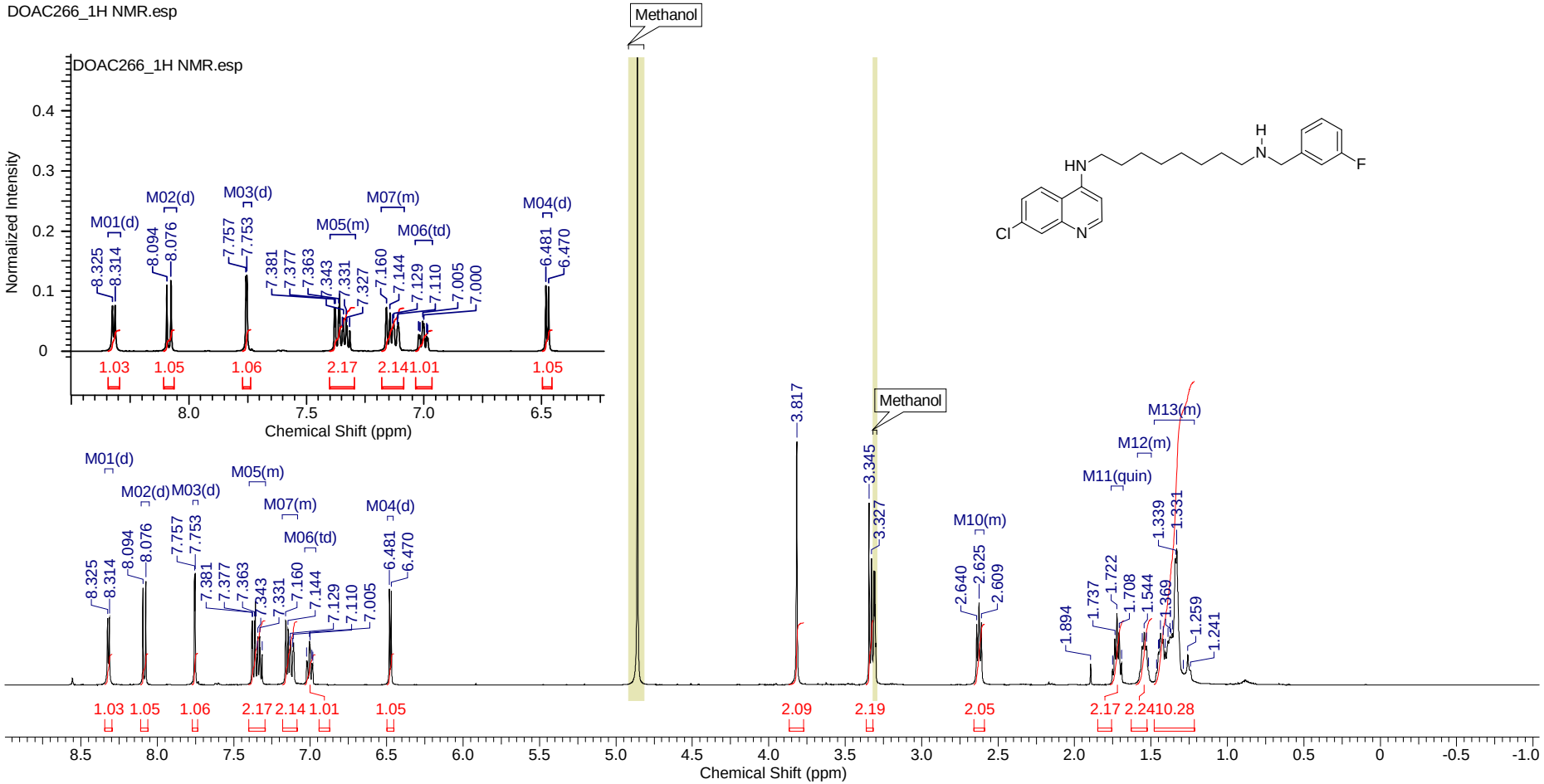
Compound 17: ^{13}C NMR spectrum (125 MHz, CD_3OD):

Acquisition Time (sec)	0.5505	***Comment***	Z8107_0241 (PH BBI 500S2 H-BB-D-05 Z)			***Date***	13 Sep 2017 13:44:00
Date Stamp	13 Sep 2017 13:44:00						
File Name	C:\Users\Dejan Opsenica\Documents\Radni dnevnik\DOAC\DOAC271\DOAC271_1\10\pdata\1\1r					***Frequency (MHz)***	125.79
Nucleus	13C	***Number of Transients***	459	***Origin***	spect	***Original Points Count***	16384
Owner	nmrsu	***Points Count***	32768	***Pulse Sequence***	zgpg30	***Receiver Gain***	203.00
SW(cyclical) (Hz)	29761.90	***Solvent***	METHANOL-d4	***Spectrum Offset (Hz)***	13773.4932	***Spectrum Type***	STANDARD
Sweep Width (Hz)	29761.00	***Temperature (degree C)***	25.000				



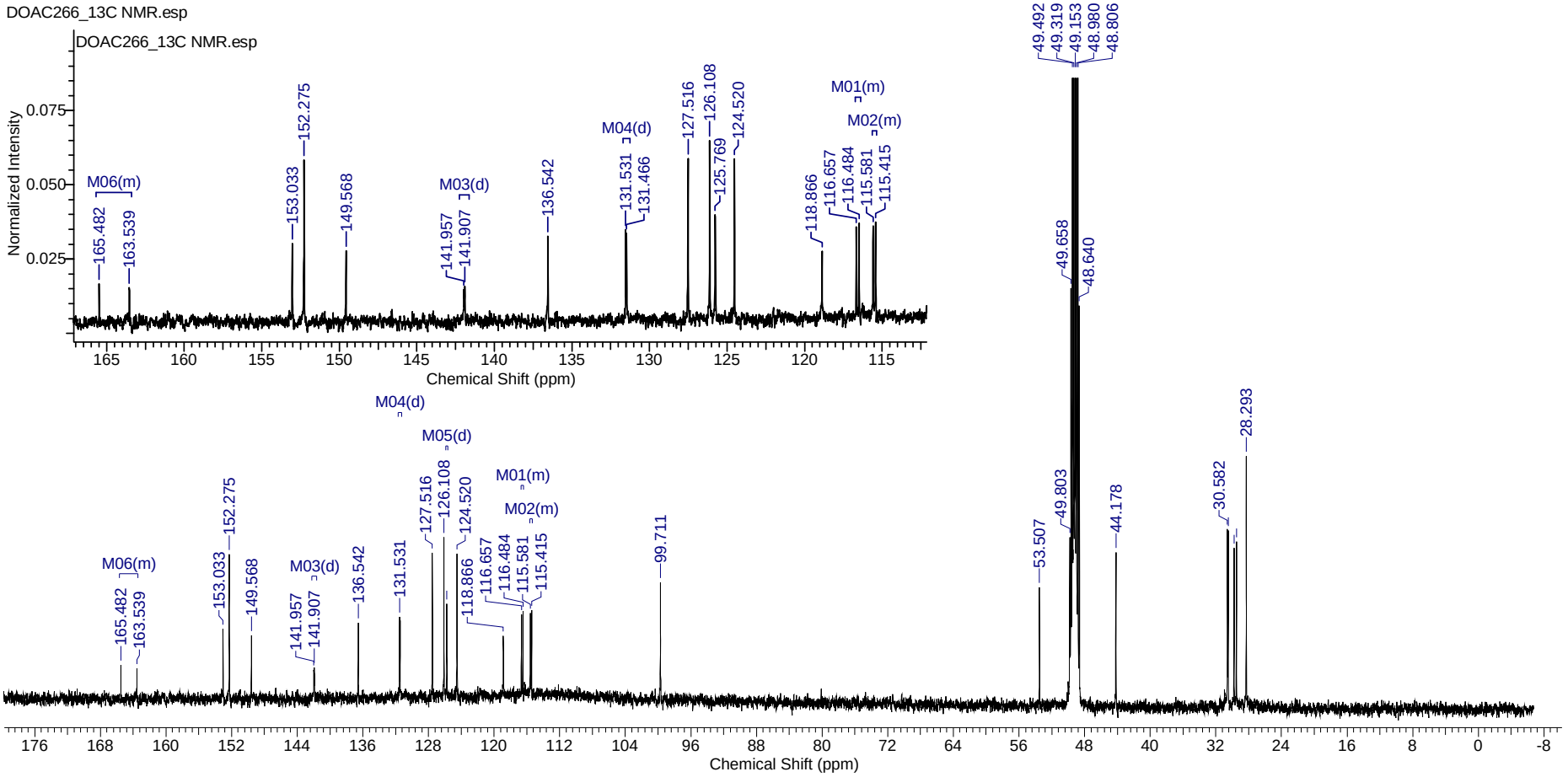
Compound 18: ^{1}H NMR spectrum (500 MHz, CD_3OD):

Acquisition Time (sec)	1.6384	***Comment***	Z8107_0241 (PH BBI 500S2 H-BB-D-05 Z)			***Date***	10 Aug 2017 16:06:56
Date Stamp	10 Aug 2017 16:06:56			***File Name***	C:\Users\Dejan Opsenica\Documents\Radni dnevnik\DOAC\DOAC266\DOAC266_1\1\pdata\1\1r		
Frequency (MHz)	500.26	***Nucleus***	1H	***Number of Transients***	16	***Origin***	spect
Original Points Count	16384	***Owner***	nmrsu	***Points Count***	32768	***Pulse Sequence***	zg30
Receiver Gain	101.00	***SW(cyclical) (Hz)***	10000.00	***Solvent***	METHANOL-d4	***Spectrum Offset (Hz)***	4240.3633
Spectrum Type	STANDARD	***Sweep Width (Hz)***	9999.70	***Temperature (degree C)***	25.100		



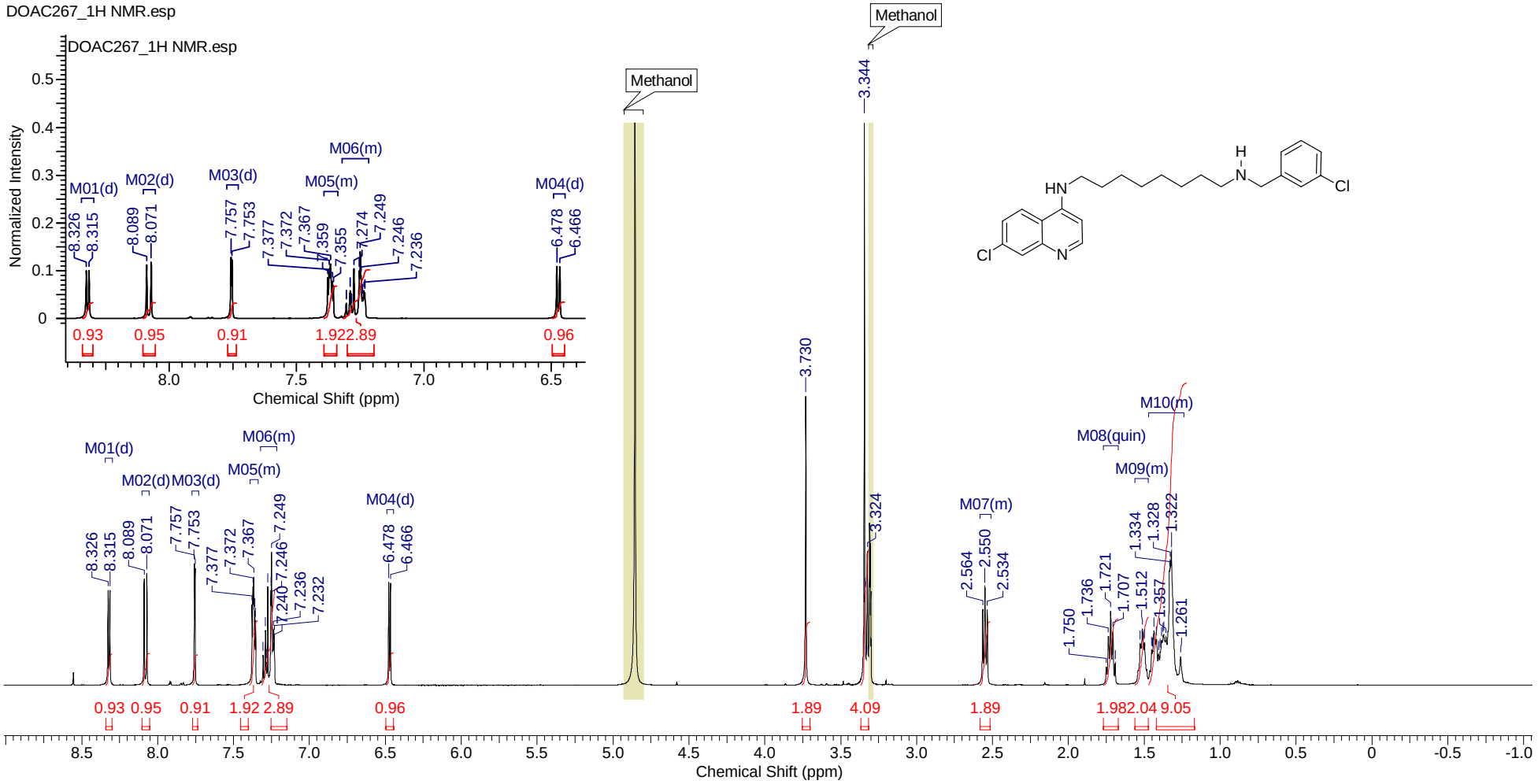
Compound 18: ^{13}C NMR spectrum (125 MHz, CD_3OD):

Acquisition Time (sec)	0.5505	***Comment***	Z8107_0241 (PH BBI 500S2 H-BB-D-05 Z)			***Date***	10 Aug 2017 16:36:48
Date Stamp	10 Aug 2017 16:36:48						
File Name	C:\Users\Dejan Opsenica\Documents\Radni dnevnik\DOAC\DOAC266\DOAC266_1\10\pdata\1\1r					***Frequency (MHz)***	125.79
Nucleus	13C	***Number of Transients***	672	***Origin***	spect	***Original Points Count***	16384
Owner	nmrsu	***Points Count***	32768	***Pulse Sequence***	zgpg30	***Receiver Gain***	203.00
SW(cyclical) (Hz)	29761.90	***Solvent***	METHANOL-d4	***Spectrum Offset (Hz)***	14030.7998	***Spectrum Type***	STANDARD
Sweep Width (Hz)	29761.00	***Temperature (degree C)***	25.100				



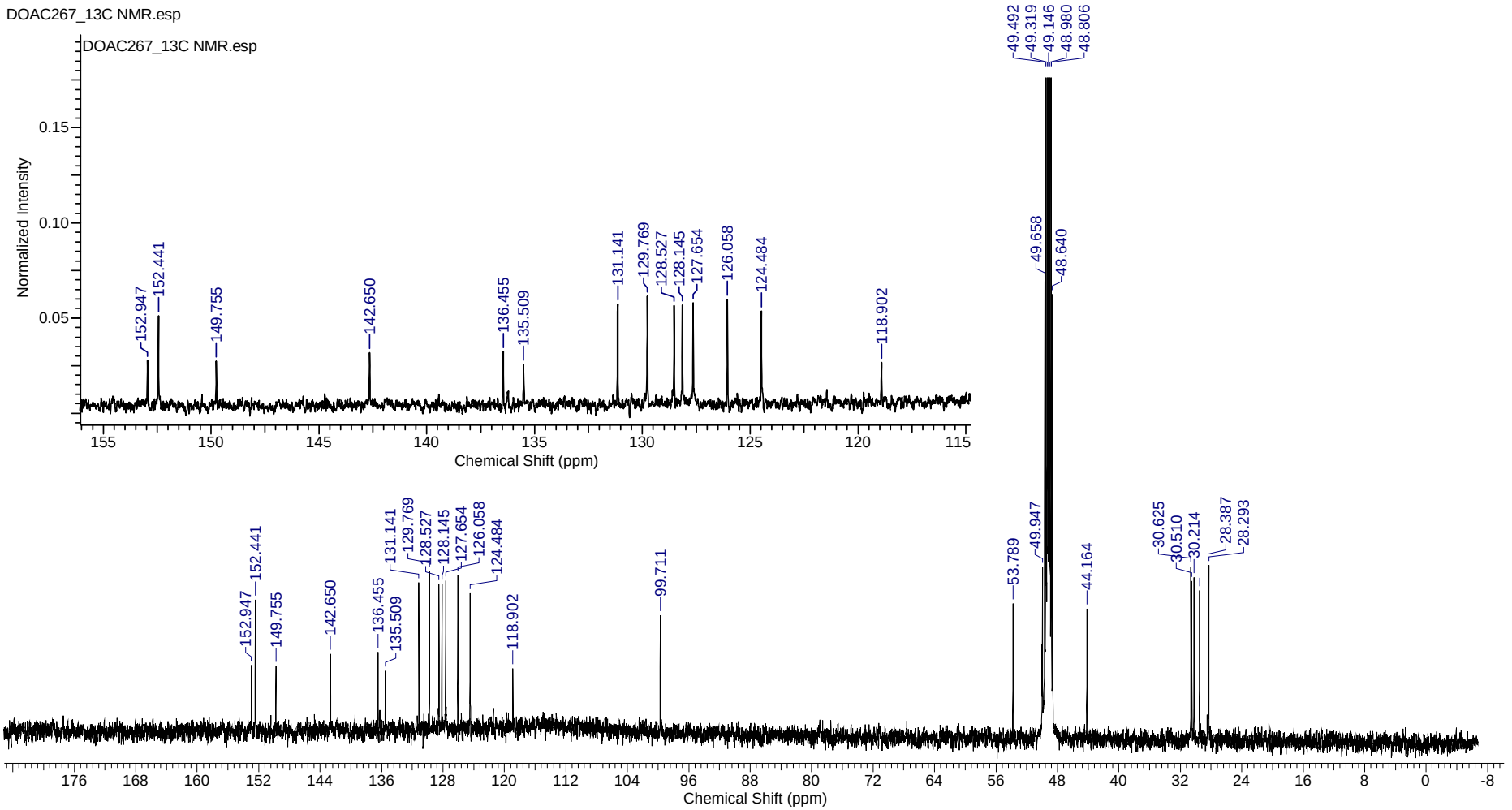
Compound 19: ^{1}H NMR spectrum (500 MHz, CD_3OD):

Acquisition Time (sec)	1.6384	***Comment***	Z8107_0241 (PH BBI 500S2 H-BB-D-05 Z)			***Date***	11 Aug 2017 09:06:40
Date Stamp	11 Aug 2017 09:06:40			***File Name***	C:\Users\Dejan Opsenica\Documents\Radni dnevnik\DOAC\DOAC267\DOAC267_1\1\pdata\1\1r		
Frequency (MHz)	500.26	***Nucleus***	1H	***Number of Transients***	32	***Origin***	spect
Original Points Count	16384	***Owner***	nmrsu	***Points Count***	32768	***Pulse Sequence***	zg30
Receiver Gain	144.00	***SW(cyclical) (Hz)***	10000.00	***Solvent***	METHANOL-d4	***Spectrum Offset (Hz)***	4240.3633
Spectrum Type	STANDARD	***Sweep Width (Hz)***	9999.70	***Temperature (degree C)***	25.000		



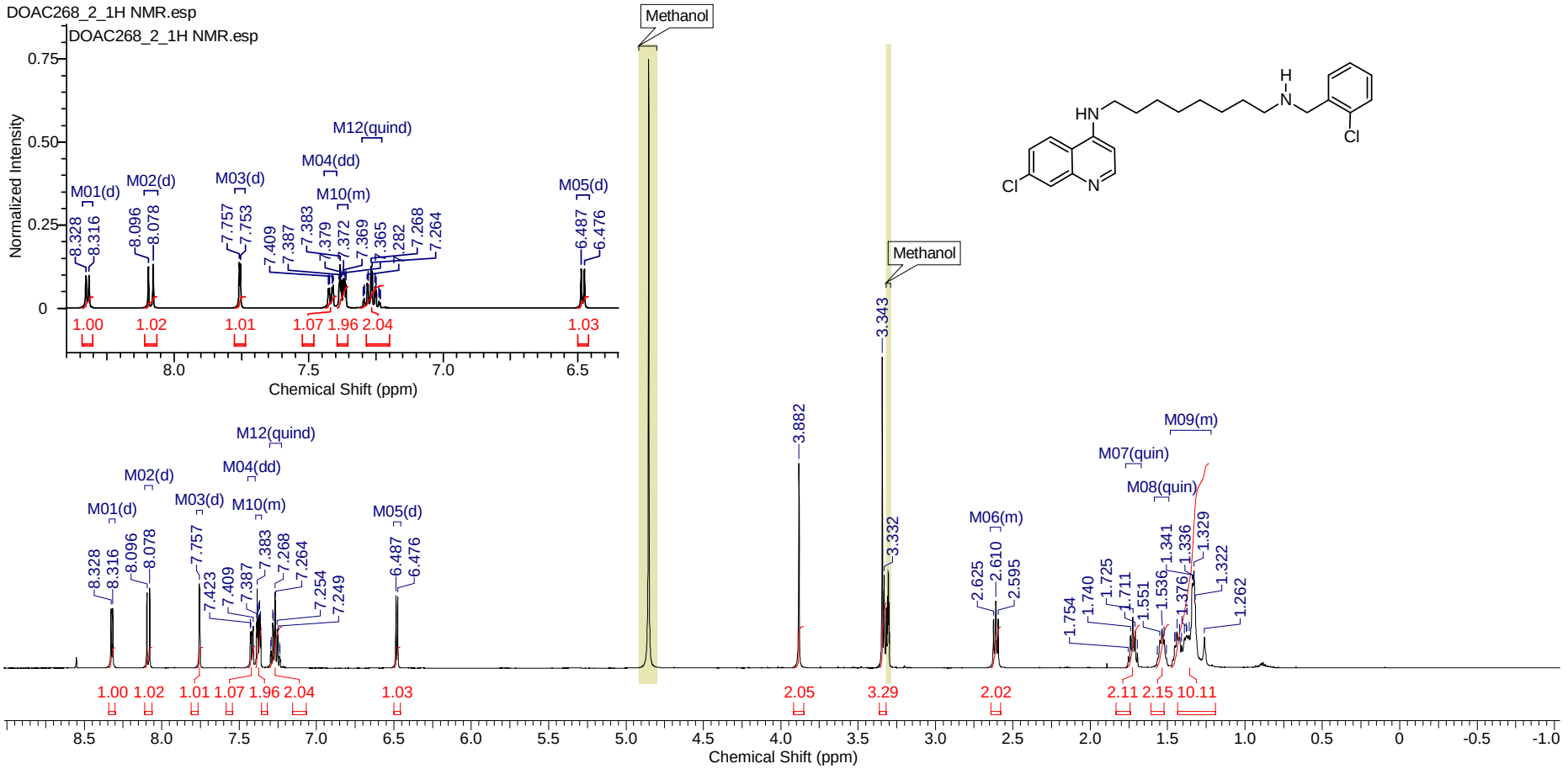
Compound 19: ^{13}C NMR spectrum (125 MHz, CD_3OD):

Acquisition Time (sec)	0.5505	***Comment***	Z8107_0241 (PH BBI 500S2 H-BB-D-05 Z)			***Date***	11 Aug 2017 09:34:24
Date Stamp	11 Aug 2017 09:34:24						
File Name	C:\Users\Dejan Opsenica\Documents\Radni dnevnik\DOAC\DOAC267\DOAC267_1\10\pdata\1\1r					***Frequency (MHz)***	125.79
Nucleus	13C	***Number of Transients***	605	***Origin***	spect	***Original Points Count***	16384
Owner	nmrsu	***Points Count***	32768	***Pulse Sequence***	zgpg30	***Receiver Gain***	203.00
SW(cyclical) (Hz)	29761.90	***Solvent***	METHANOL-d4	***Spectrum Offset (Hz)***	14030.7998	***Spectrum Type***	STANDARD
Sweep Width (Hz)	29761.00	***Temperature (degree C)***	25.000				



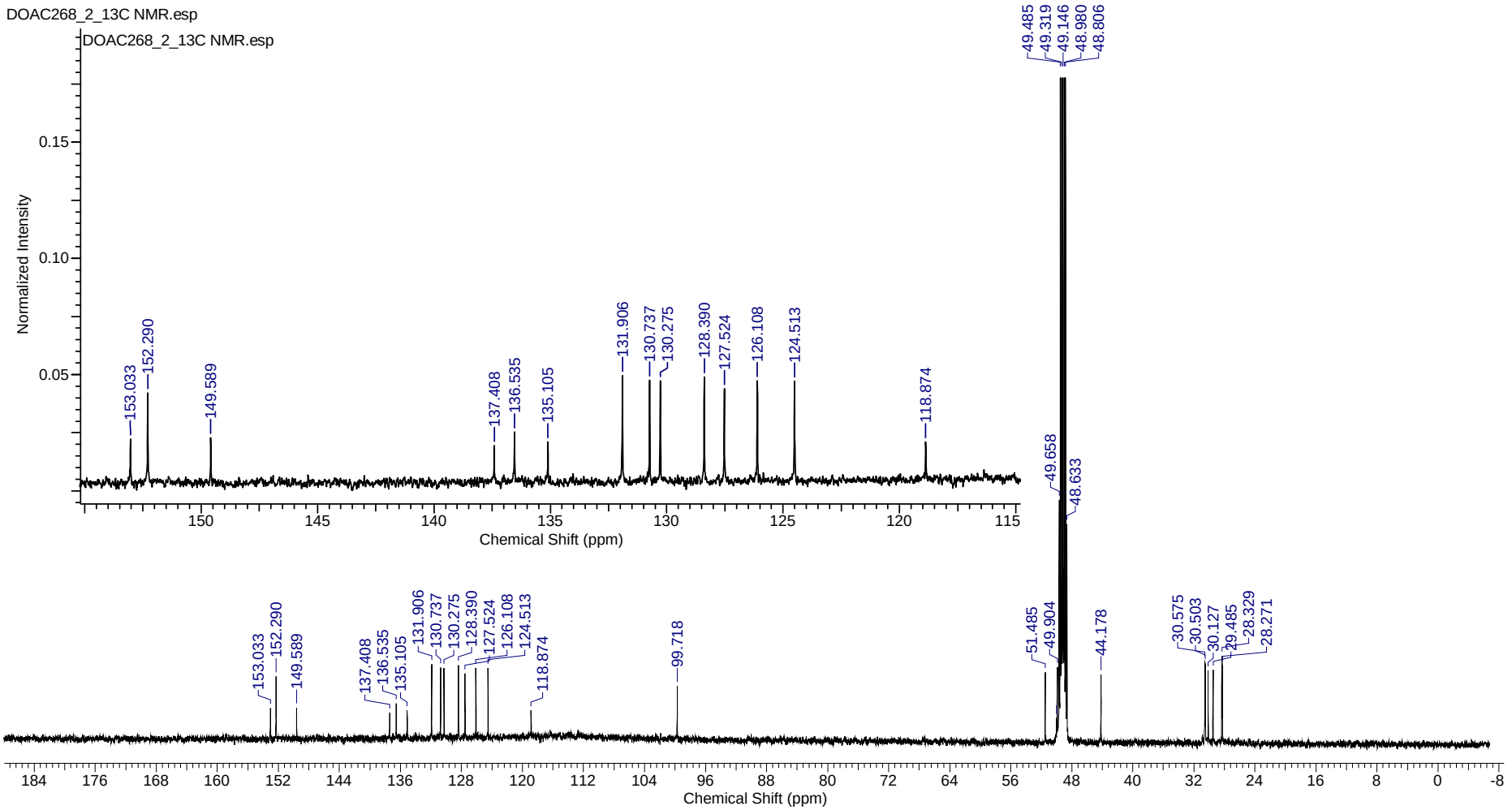
Compound 20: ^{1}H NMR spectrum (500 MHz, CD_3OD):

Acquisition Time (sec)	1.6384	***Comment***	Z8107_0241 (PH BBI 500S2 H-BB-D-05 Z)			***Date***	11 Aug 2017 08:30:24
Date Stamp	11 Aug 2017 08:30:24			***File Name***	C:\Users\Dejan Opsenica\Documents\Radni dnevnik\DOAC\DOAC268\DOAC268_2\1\pdata\1\1r		
Frequency (MHz)	500.26	***Nucleus***	1H	***Number of Transients***	32	***Origin***	spect
Original Points Count	16384	***Owner***	nmrsu	***Points Count***	32768	***Pulse Sequence***	zg30
Receiver Gain	101.00	***SW(cyclical) (Hz)***	10000.00	***Solvent***	METHANOL-d4	***Spectrum Offset (Hz)***	4240.3633
Spectrum Type	STANDARD	***Sweep Width (Hz)***	9999.70	***Temperature (degree C)***	25.000		



Compound 20: ^{13}C NMR spectrum (125 MHz, CD_3OD):

Acquisition Time (sec)	0.5505	***Comment***	Z8107_0241 (PH BBI 500S2 H-BB-D-05 Z)			***Date***	11 Aug 2017 09:00:16
Date Stamp	11 Aug 2017 09:00:16						
File Name	C:\Users\Dejan Opsenica\Documents\Radni dnevnik\DOAC\DOAC268\DOAC268_2\10\pdata\1\1r					***Frequency (MHz)***	125.79
Nucleus	13C	***Number of Transients***	708	***Origin***	spect	***Original Points Count***	16384
Owner	nmrsu	***Points Count***	32768	***Pulse Sequence***	zgpg30	***Receiver Gain***	203.00
SW(cyclical) (Hz)	29761.90	***Solvent***	METHANOL-d4	***Spectrum Offset (Hz)***	14030.7998	***Spectrum Type***	STANDARD
Sweep Width (Hz)	29761.00	***Temperature (degree C)***	25.000				

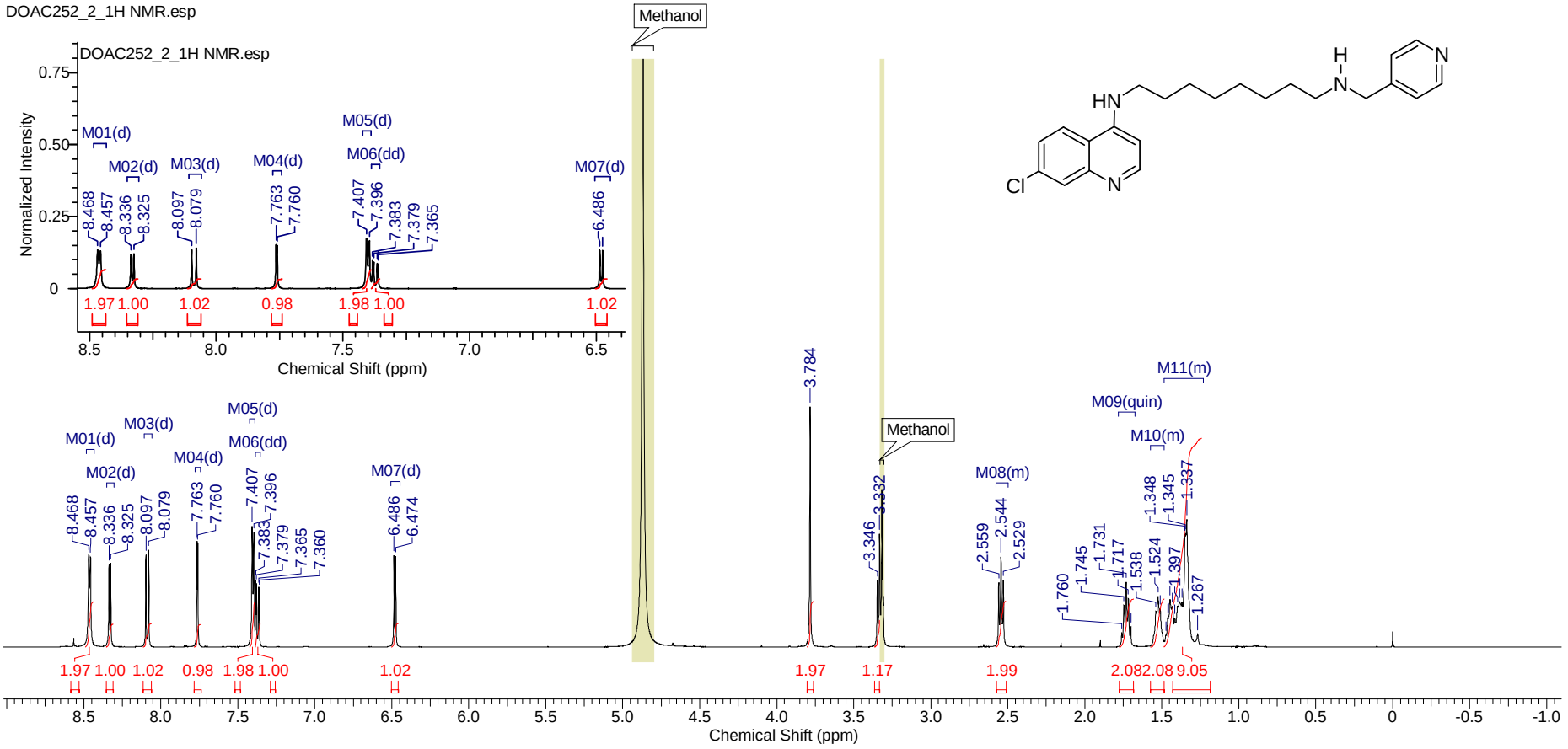


Compound 21: ^{1}H NMR spectrum (500 MHz, CD_3OD):

15.10.2018 22:39:55

Number of Nuclei 24 H's

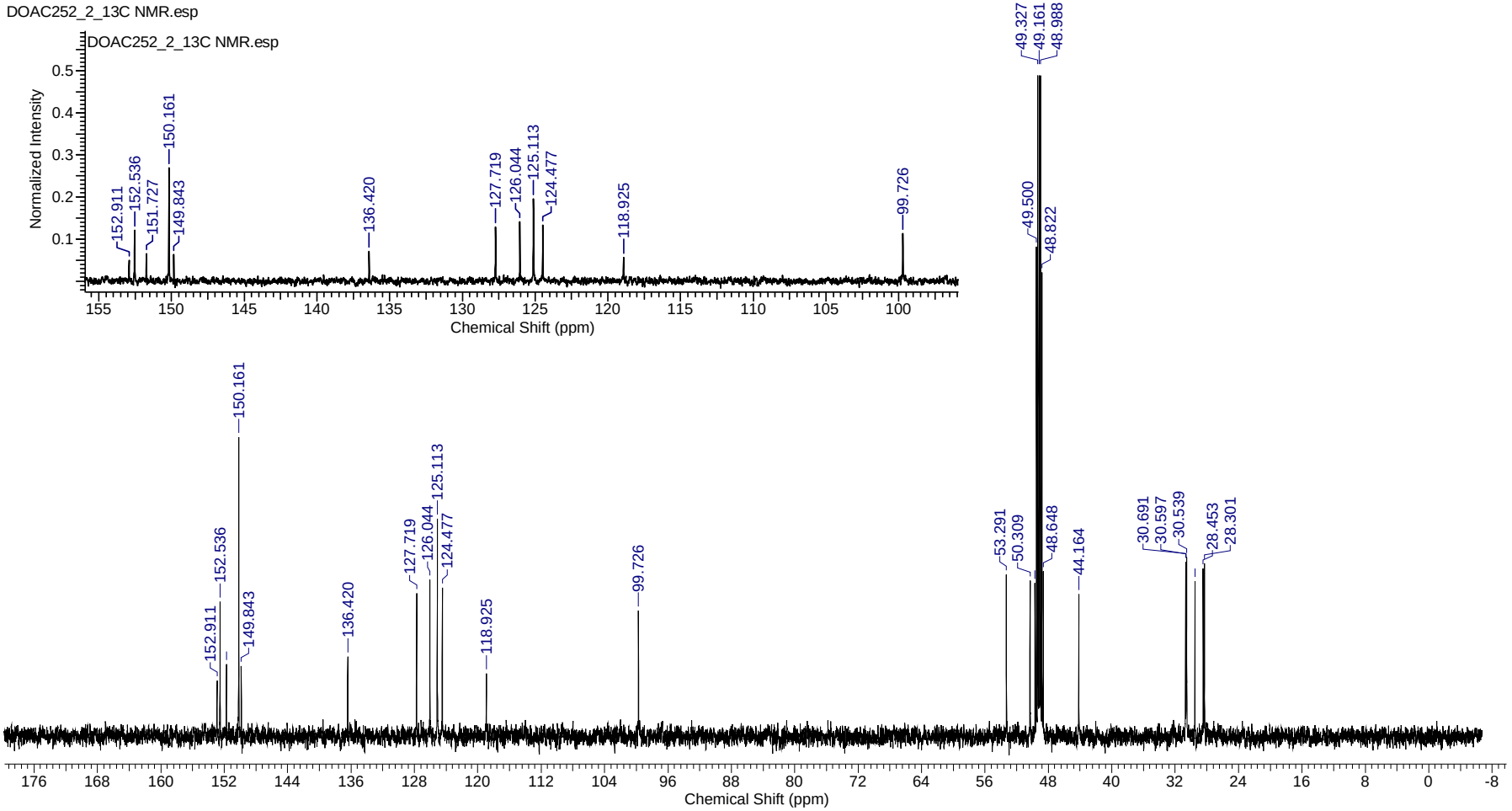
Acquisition Time (sec)	1.6384	***Comment***	Z8007_0118 (PH BBO 500S2 BB-H-D-05 Z)			***Date***	15 May 2017 17:06:40
Date Stamp	15 May 2017 17:06:40						
File Name	C:\Users\Dejan Opsenica\Documents\Radni dnevnik\DOAC\DOAC251_252\DOAC252_2\1\pdata\1\1r					***Frequency (MHz)***	500.26
Nucleus	1H	***Number of Transients***	16	***Origin***	spect	***Original Points Count***	16384
Owner	nmrsu	***Points Count***	32768	***Pulse Sequence***	zg30	***Receiver Gain***	203.00
SW(cyclical) (Hz)	10000.00	***Solvent***	METHANOL-d4	***Spectrum Offset (Hz)***	4244.9355	***Spectrum Type***	STANDARD
Sweep Width (Hz)	9999.70	***Temperature (degree C)***	25.000				



Compound 21: ^{13}C NMR spectrum (125 MHz, CD_3OD):

15.10.2018 22:41:38

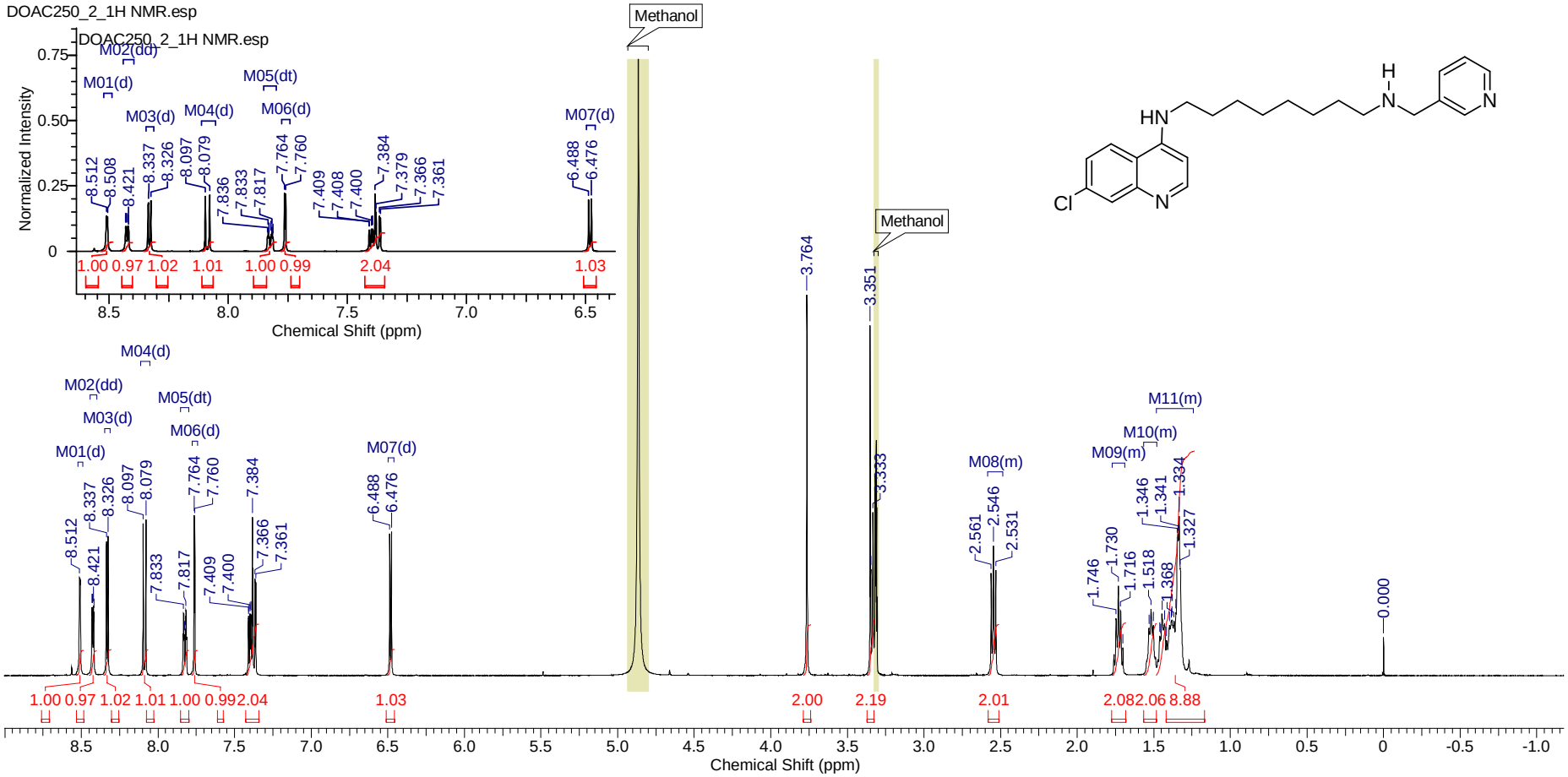
Number of Nuclei 0 C's							
Acquisition Time (sec)	0.5505	***Comment***	Z8007_0118 (PH BBO 500S2 BB-H-D-05 Z)			***Date***	15 May 2017 17:13:04
Date Stamp	15 May 2017 17:13:04						
File Name	C:\Users\Dejan Opsenica\Documents\Radni dnevnik\DOAC\DOAC251_252\DOAC252_2\2\pdata\1\1r					***Frequency (MHz)***	125.79
Nucleus	13C	***Number of Transients***	146	***Origin***	spect	***Original Points Count***	16384
Owner	nmrsu	***Points Count***	32768	***Pulse Sequence***	zgpg30	***Receiver Gain***	203.00
SW(cyclical) (Hz)	29761.90	***Solvent***	METHANOL-d4	***Spectrum Offset (Hz)***	14031.8066	***Spectrum Type***	STANDARD
Sweep Width (Hz)	29761.00	***Temperature (degree C)***	25.000				



Compound 22: ^{1}H NMR spectrum (500 MHz, CD_3OD):

15.10.2018 23:19:08

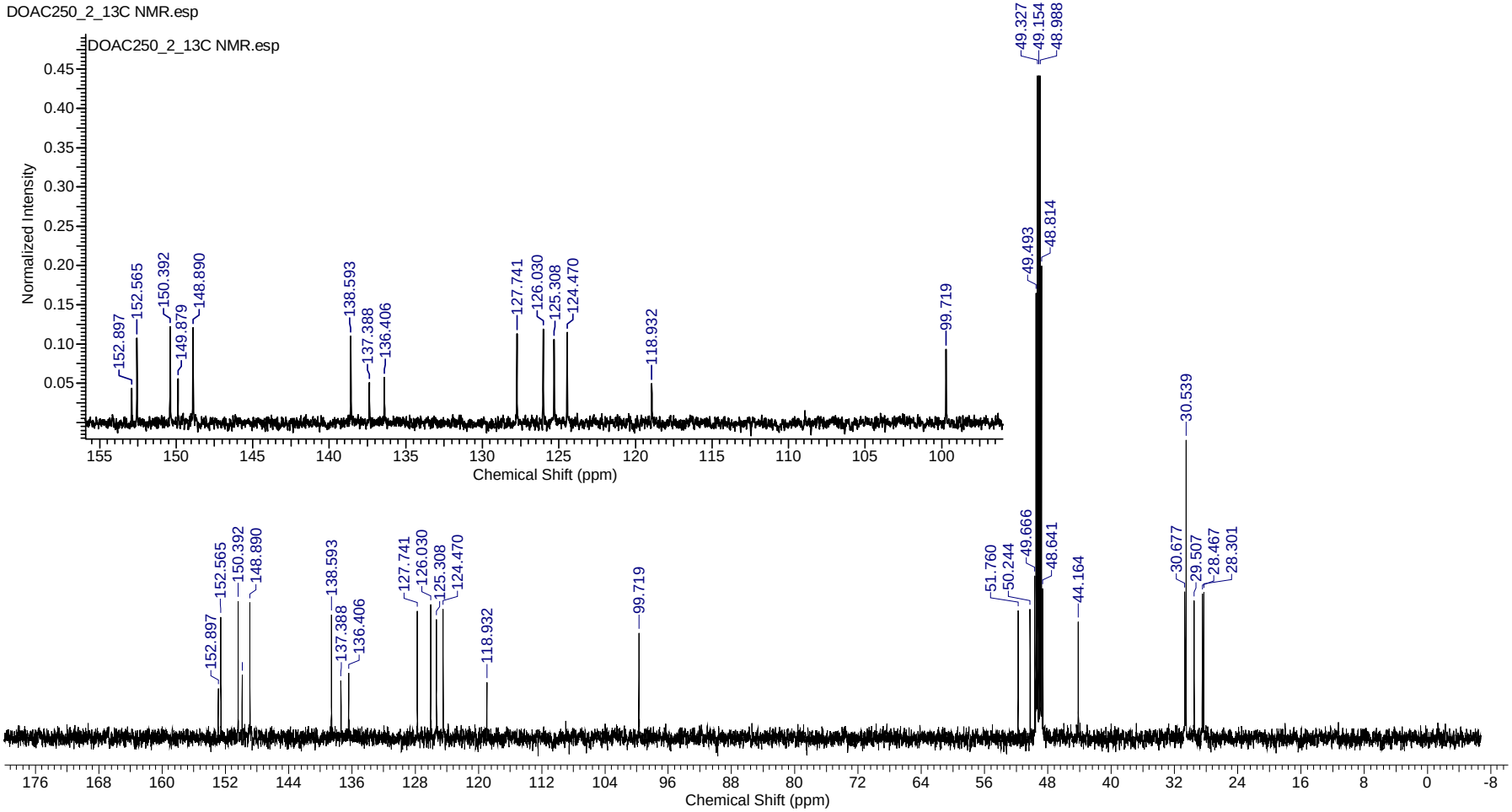
Number of Nuclei 22 H's							
Acquisition Time (sec)	1.6384	***Comment***	Z8007_0118 (PH BBO 500S2 BB-H-D-05 Z)			***Date***	15 May 2017 16:58:08
Date Stamp	15 May 2017 16:58:08						
File Name	C:\Users\Dejan Opsenica\Documents\Radni dnevnik\DOAC\DOAC249_250\DOAC250_2\1\pdata\1\1r					***Frequency (MHz)***	500.26
Nucleus	1H	***Number of Transients***	16	***Origin***	spect	***Original Points Count***	16384
Owner	nmrsu	***Points Count***	32768	***Pulse Sequence***	zg30	***Receiver Gain***	203.00
SW(cyclical) (Hz)	10000.00	***Solvent***	METHANOL-d4	***Spectrum Offset (Hz)***	4244.1348	***Spectrum Type***	STANDARD
Sweep Width (Hz)	9999.70	***Temperature (degree C)***	25.000				



Compound 22: ^{13}C NMR spectrum (125 MHz, CD_3OD):

15.10.2018 23:21:06

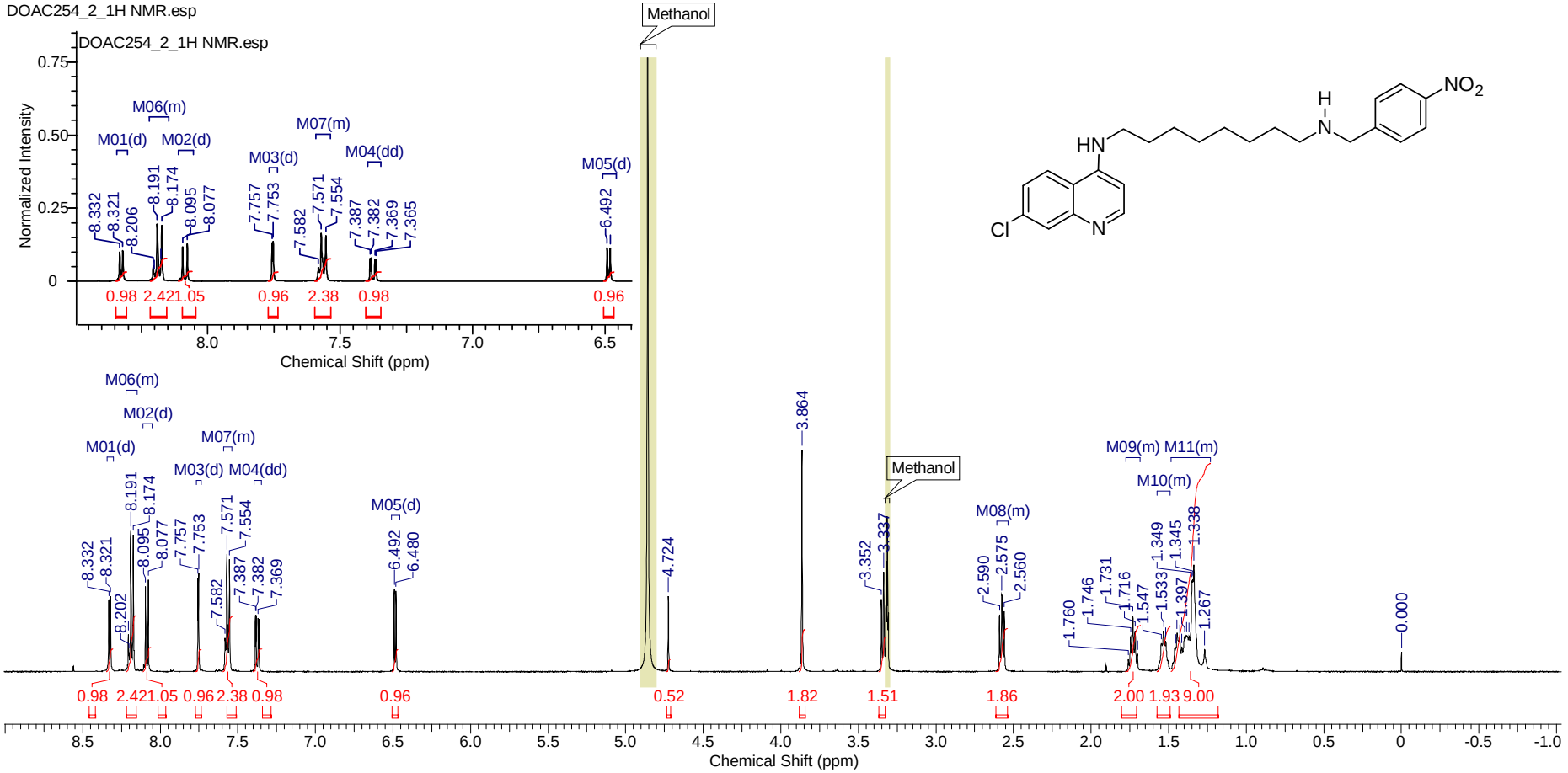
Number of Nuclei 0 C's							
Acquisition Time (sec)	0.5505	***Comment***	Z8007_0118 (PH BBO 500S2 BB-H-D-05 Z)			***Date***	15 May 2017 17:04:32
Date Stamp	15 May 2017 17:04:32						
File Name	C:\Users\Dejan Opsenica\Documents\Radni dnevnik\DOAC\DOAC249_250\DOAC250_2\2\pdata\1\1r					***Frequency (MHz)***	125.79
Nucleus	13C	***Number of Transients***	127	***Origin***	spect	***Original Points Count***	16384
Owner	nmrsu	***Points Count***	32768	***Pulse Sequence***	zgpg30	***Receiver Gain***	203.00
SW(cyclical) (Hz)	29761.90	***Solvent***	METHANOL-d4	***Spectrum Offset (Hz)***	14031.8066	***Spectrum Type***	STANDARD
Sweep Width (Hz)	29761.00	***Temperature (degree C)***	25.000				



Compound 23: ^{1}H NMR spectrum (500 MHz, CD_3OD):

16.10.2018 0:57:28

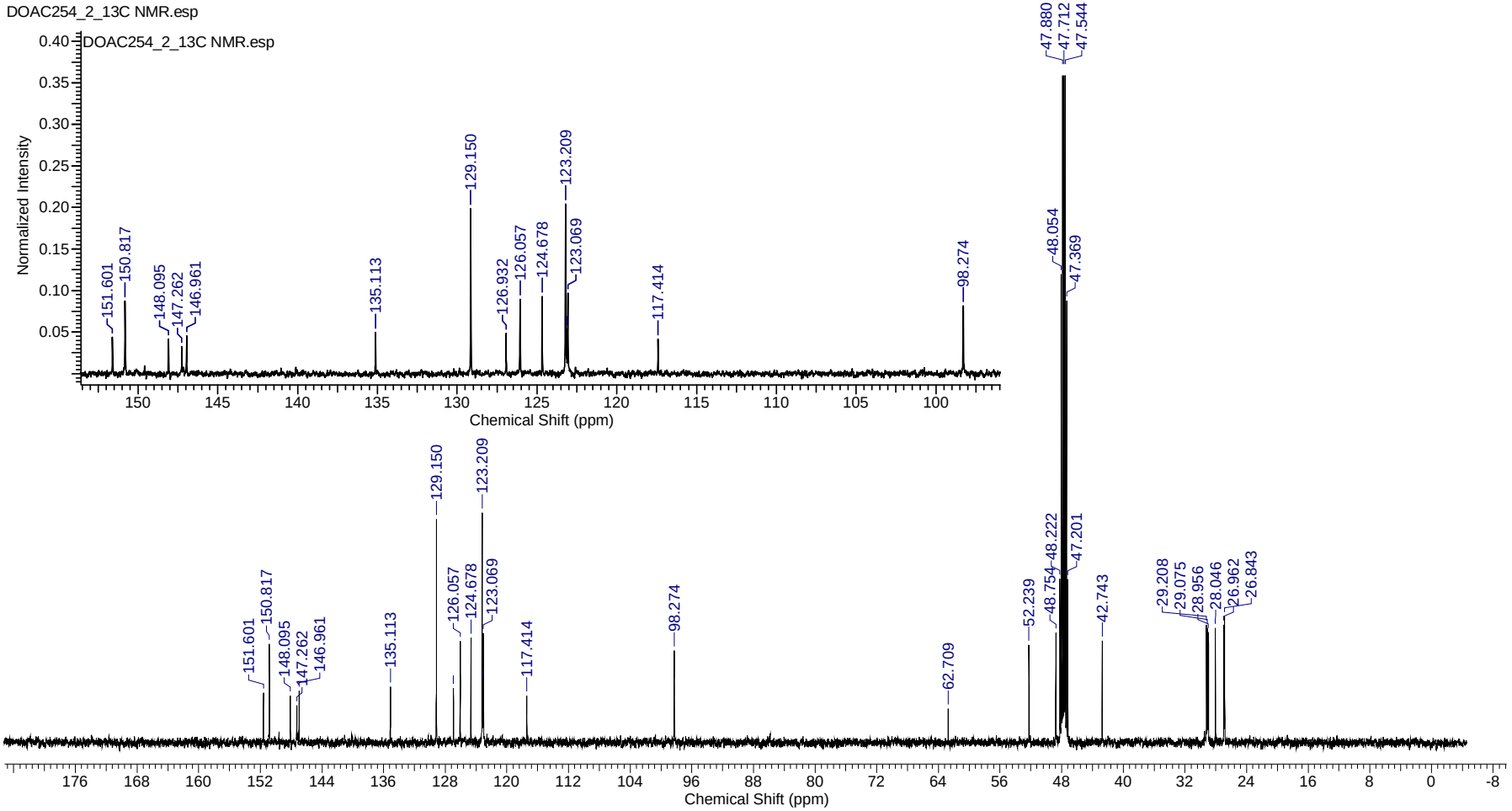
Number of Nuclei 24 H's							
Acquisition Time (sec)	1.6384	***Comment***	Z8007_0118 (PH BBO 500S2 BB-H-D-05 Z)			***Date***	26 May 2017 18:59:44
Date Stamp	26 May 2017 18:59:44						
File Name	C:\Users\Dejan Opsenica\Documents\Radni dnevnik\DOAC\DOAC253_254\DOAC254_2\1\pdata\1\1r					***Frequency (MHz)***	500.26
Nucleus	1H	***Number of Transients***	8	***Origin***	spect	***Original Points Count***	16384
Owner	nmrsu	***Points Count***	32768	***Pulse Sequence***	zg30	***Receiver Gain***	203.00
SW(cyclical) (Hz)	10000.00	***Solvent***	METHANOL-d4	***Spectrum Offset (Hz)***	4244.6904	***Spectrum Type***	STANDARD
Sweep Width (Hz)	9999.70	***Temperature (degree C)***	25.000				



Compound 23: ^{13}C NMR spectrum (125 MHz, CD_3OD):

16.10.2018 0:59:12

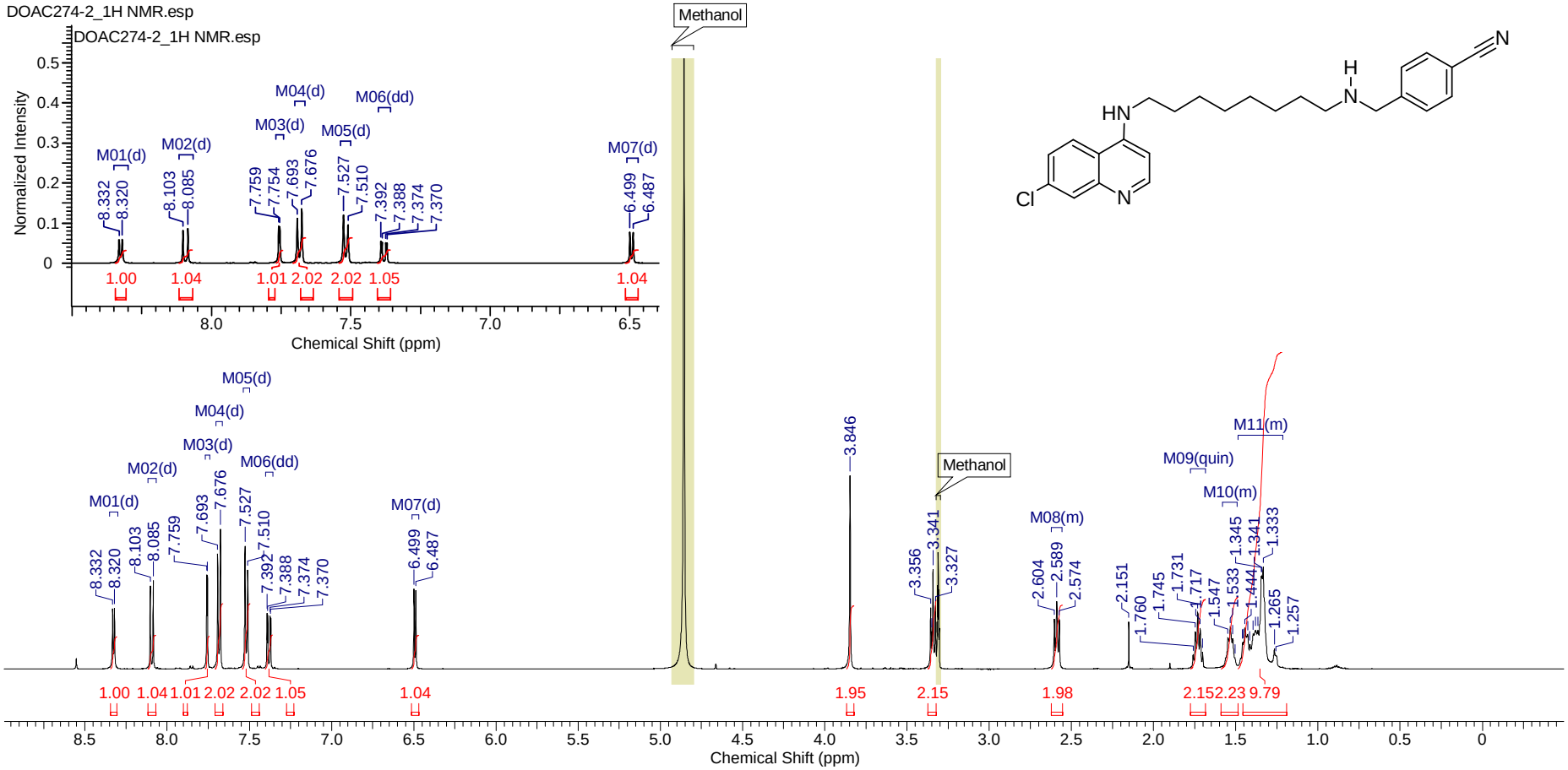
Number of Nuclei 0 C's							
Acquisition Time (sec)	0.5680	***Comment***	Z8007_0118 (PH BBO 500S2 BB-H-D-05 Z)			***Date***	26 May 2017 19:21:04
Date Stamp	26 May 2017 19:21:04						
File Name	C:\Users\Dejan Opsenica\Documents\Radni dnevnik\DOAC\DOAC253_254\DOAC254_2\2\pdata\1\1r					***Frequency (MHz)***	125.79
Nucleus	13C	***Number of Transients***	481	***Origin***	spect	***Original Points Count***	16384
Owner	nmrsu	***Points Count***	32768	***Pulse Sequence***	zgpg30	***Receiver Gain***	203.00
SW(cyclical) (Hz)	28846.15	***Solvent***	METHANOL-d4	***Spectrum Offset (Hz)***	13850.1035	***Spectrum Type***	STANDARD
Sweep Width (Hz)	28845.27	***Temperature (degree C)***	25.100				



Compound 24: ^{1}H NMR spectrum (500 MHz, CD_3OD):

16.10.2018 1:48:25

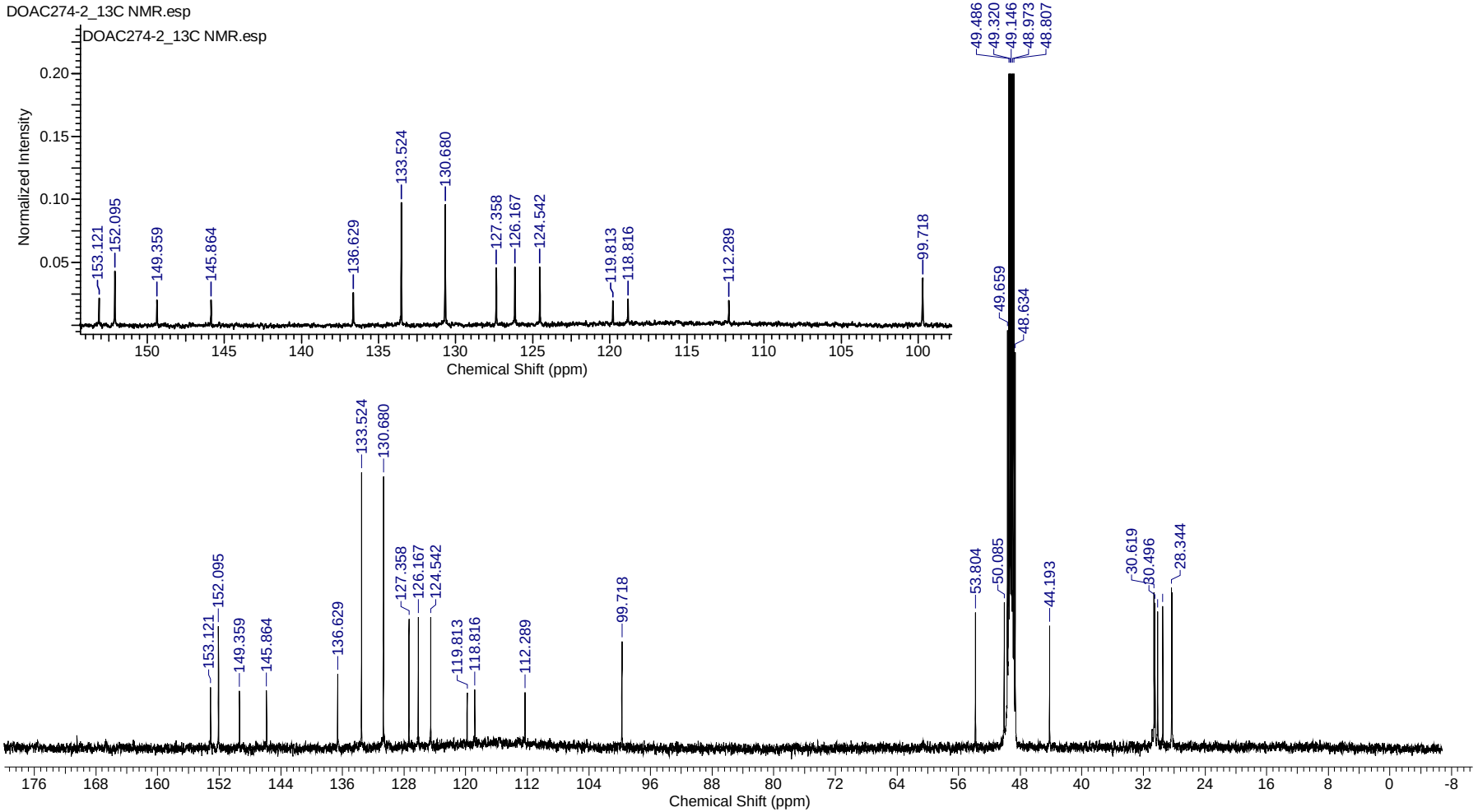
Number of Nuclei 25 H's							
Acquisition Time (sec)	3.1982	*Comment*	Z8107_0241 (PH BBI 500S2 H-BB-D-05 Z)			*Date*	28 Sep 2017 11:55:12
Date Stamp	28 Sep 2017 11:55:12			*File Name*	C:\Users\Dejan Opsenica\Documents\Radni dnevnik\DOAC\DOAC274\DOAC274-2\1\pdata\1\1r		
Frequency (MHz)	500.26	*Nucleus*	1H	*Number of Transients*	16	*Origin*	spect
Original Points Count	16384	*Owner*	nmrsu	*Points Count*	32768	*Pulse Sequence*	zg30
Receiver Gain	71.80	*SW(cyclical) (Hz)*	5122.95	*Solvent*	METHANOL-d4	*Spectrum Offset (Hz)*	2314.3713
Spectrum Type	STANDARD	*Sweep Width (Hz)*	5122.79	*Temperature (degree C)*	25.000		



Compound 24: ^{13}C NMR spectrum (125 MHz, CD_3OD):

16.10.2018 1:49:41

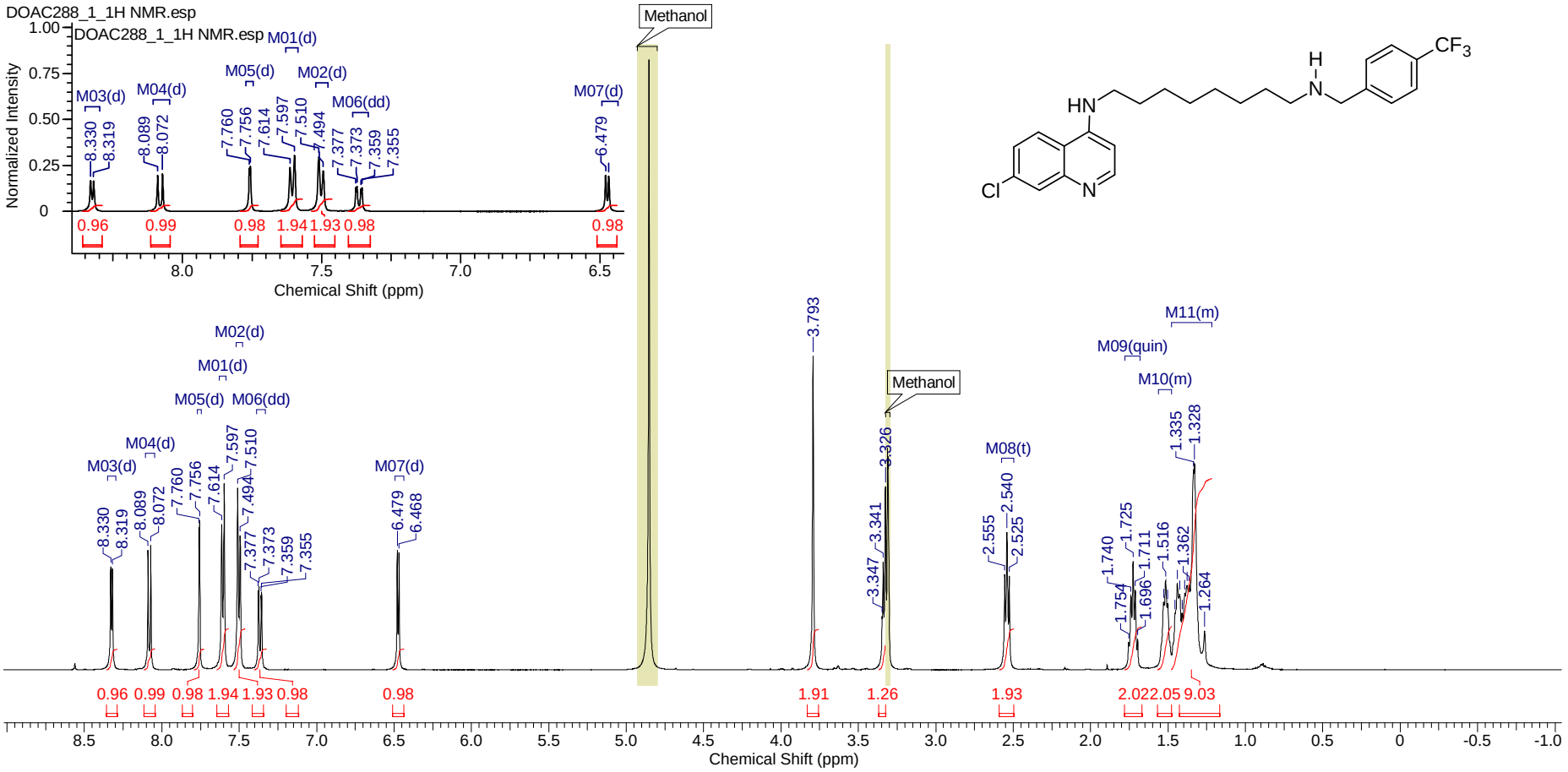
Number of Nuclei 0 C's							
Acquisition Time (sec)	0.5505	*Comment*	Z8107_0241 (PH BBI 500S2 H-BB-D-05 Z)			*Date*	28 Sep 2017 12:40:00
Date Stamp	28 Sep 2017 12:40:00			*File Name*	C:\Users\Dejan Opsenica\Documents\Radni dnevnik\DOAC\DOAC274\DOAC274-2\2\pdata\1\1r		
Frequency (MHz)	125.79	*Nucleus*	13C	*Number of Transients*	1025	*Origin*	spect
Original Points Count	16384	*Owner*	nmrsu	*Points Count*	32768	*Pulse Sequence*	zgpg30
Receiver Gain	203.00	*SW(cyclical) (Hz)*	29761.90	*Solvent*	METHANOL-d4	*Spectrum Offset (Hz)*	14029.9697
Spectrum Type	STANDARD	*Sweep Width (Hz)*	29761.00	*Temperature (degree C)*	25.000		



Compound 25: ^{1}H NMR spectrum (500 MHz, CD_3OD):

10/16/2018 2:35:43 PM

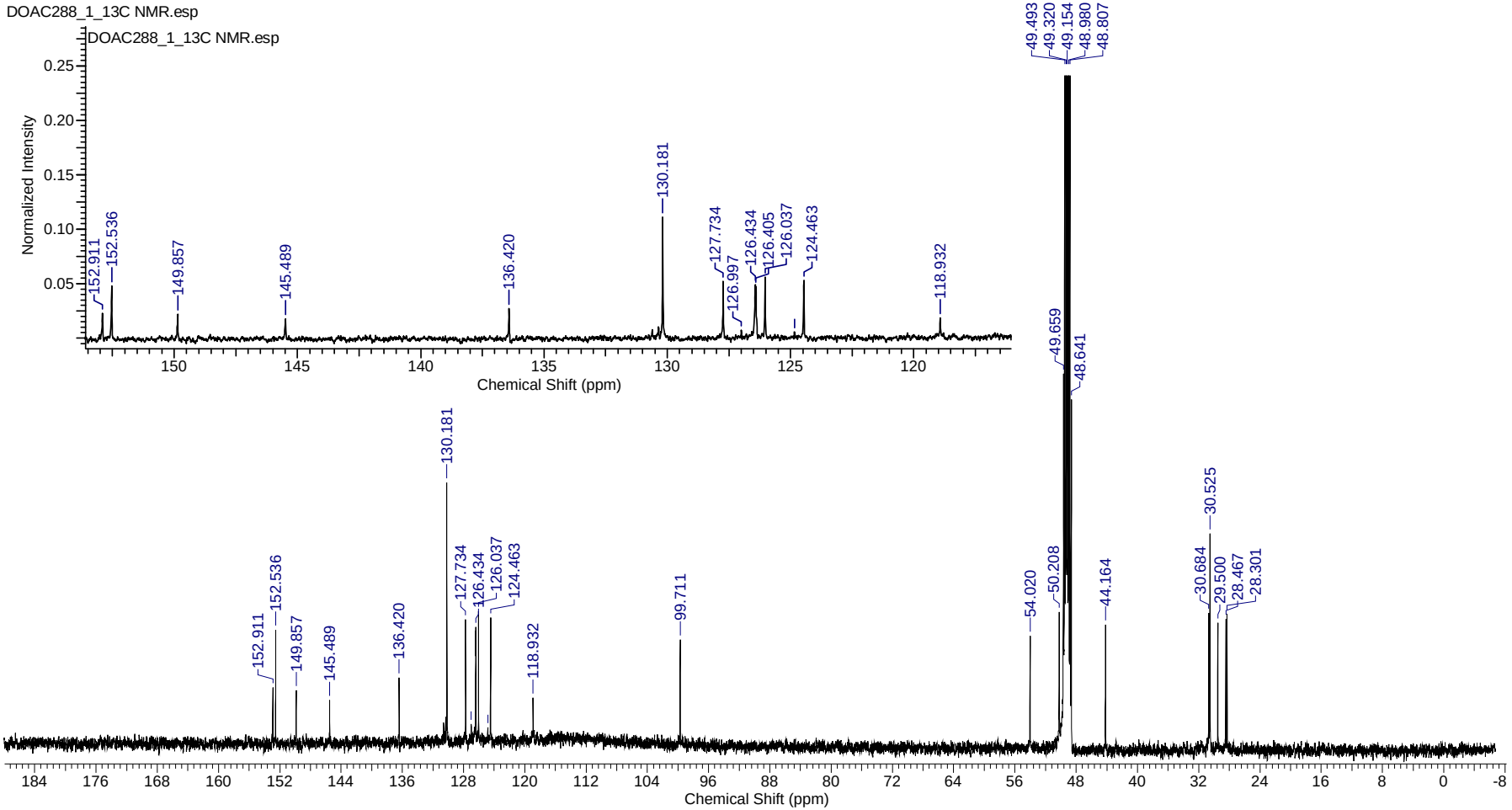
Number of Nuclei 24 H's							
Acquisition Time (sec)	1.6384	***Comment***	Z8107_0241 (PH BBI 500S2 H-BB-D-05 Z)			***Date***	26 Jan 2018 12:05:36
Date Stamp	26 Jan 2018 12:05:36			***File Name***	C:\Users\Dejan Opsenica\Documents\Radni dnevnik\DOAC\DOAC288\DOAC288_1\1\pdata\1\1r		
Frequency (MHz)	500.26	***Nucleus***	1H	***Number of Transients***	16	***Origin***	spect
Original Points Count	16384	***Owner***	nmrsu	***Points Count***	32768	***Pulse Sequence***	zg30
Receiver Gain	64.00	***SW(cyclical) (Hz)***	10000.00	***Solvent***	METHANOL-d4	***Spectrum Offset (Hz)***	4241.9287
Spectrum Type	STANDARD	***Sweep Width (Hz)***	9999.70	***Temperature (degree C)***	25.000		



Compound 25: ^{13}C NMR spectrum (125 MHz, CD_3OD):

10/16/2018 2:41:03 PM

Number of Nuclei 0 C's							
Acquisition Time (sec)	0.5505	***Comment***	Z8107_0241 (PH BBI 500S2 H-BB-D-05 Z)			***Date***	26 Jan 2018 12:33:20
Date Stamp	26 Jan 2018 12:33:20						
File Name	C:\Users\Dejan Opsenica\Documents\Radni dnevnik\DOAC\DOAC288\DOAC288_1\10\pdata\1\1r					***Frequency (MHz)***	125.79
Nucleus	13C	***Number of Transients***	635	***Origin***	spect	***Original Points Count***	16384
Owner	nmrsu	***Points Count***	32768	***Pulse Sequence***	zgpg30	***Receiver Gain***	203.00
SW(cyclical) (Hz)	29761.90	***Solvent***	METHANOL-d4	***Spectrum Offset (Hz)***	14031.7803	***Spectrum Type***	STANDARD
Sweep Width (Hz)	29761.00	***Temperature (degree C)***	25.100				

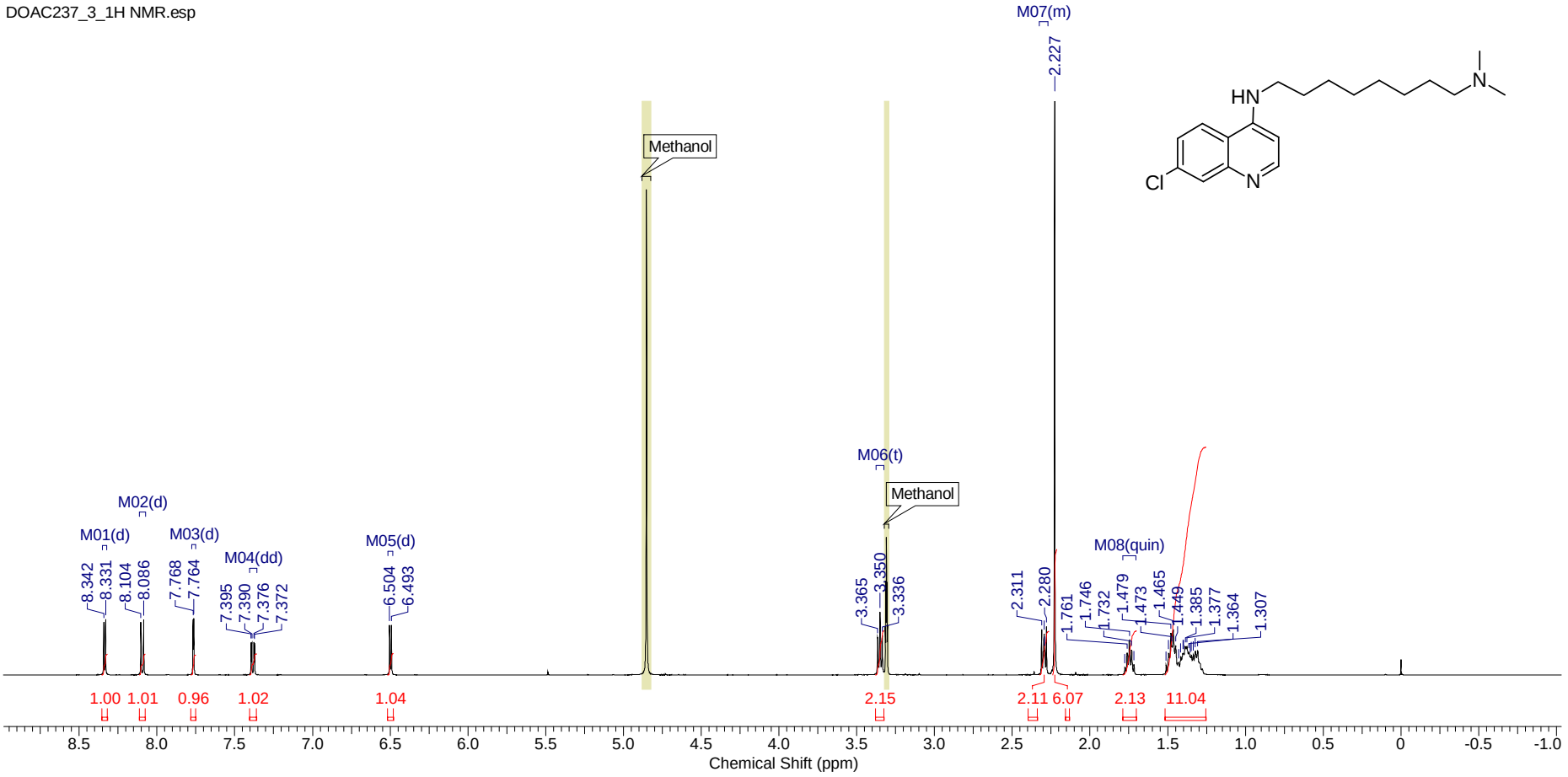


Compound 26: ^{1}H NMR spectrum (500 MHz, CD_3OD):

10/16/2018 4:55:19 PM

Number of Nuclei 11 H's							
Acquisition Time (sec)	1.6384	***Comment***	Z8007_0118 (PH BBO 500S2 BB-H-D-05 Z)			***Date***	22 Feb 2017 10:01:52
Date Stamp	22 Feb 2017 10:01:52						
File Name	C:\Users\Dejan Opsenica\Documents\Radni dnevnik\DOAC\DOAC236_237\DOAC237_3\1\pdata\1\1r					***Frequency (MHz)***	500.26
Nucleus	1H	***Number of Transients***	16	***Origin***	spect	***Original Points Count***	16384
Owner	nmrsu	***Points Count***	32768	***Pulse Sequence***	zg30	***Receiver Gain***	203.00
SW(cyclical) (Hz)	10000.00	***Solvent***	METHANOL-d4	***Spectrum Offset (Hz)***	4241.7534	***Spectrum Type***	STANDARD
Sweep Width (Hz)	9999.70	***Temperature (degree C)***	25.000				

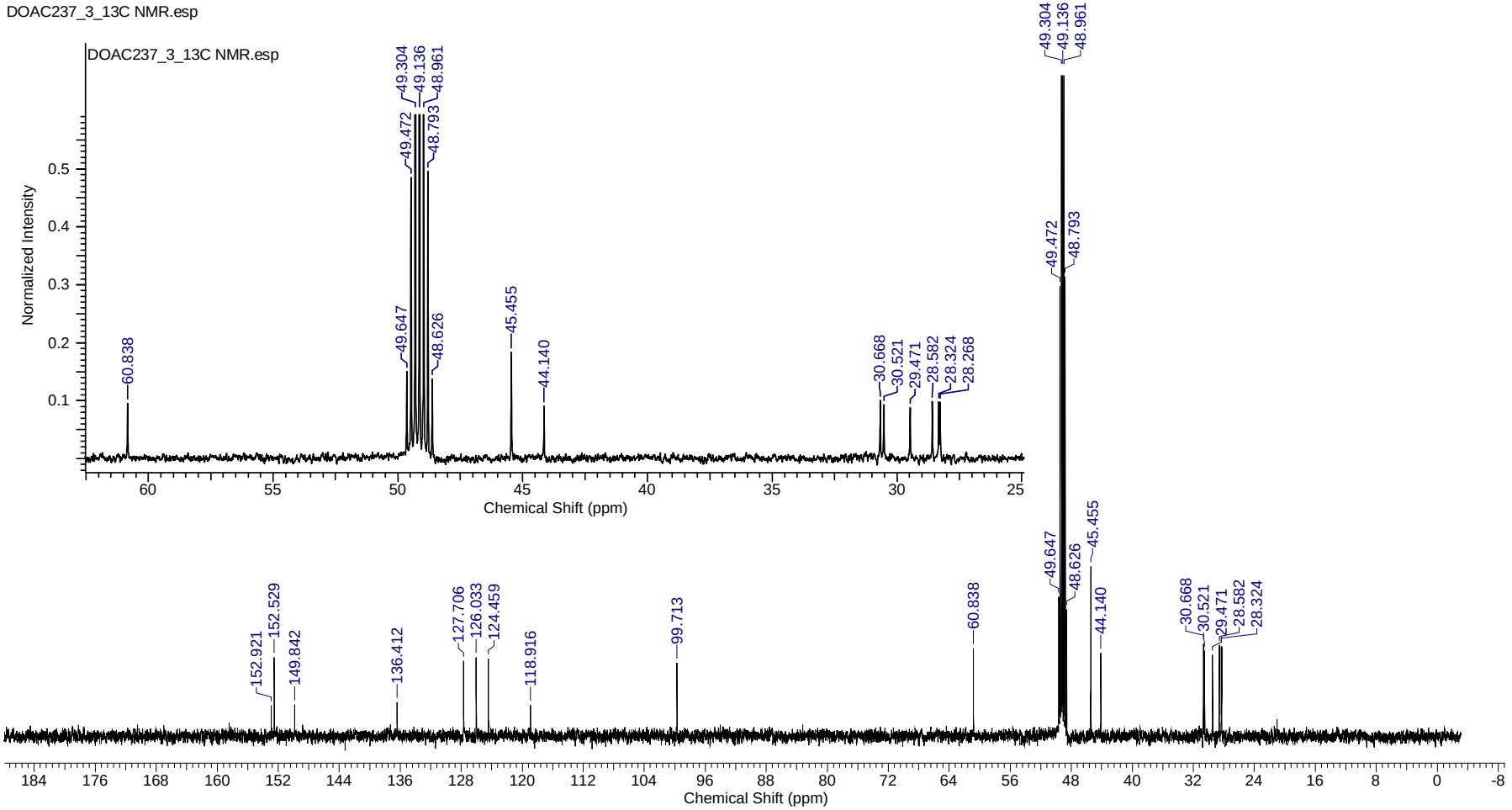
DOAC237_3_1H NMR.esp



Compound 26: ^{13}C NMR spectrum (125 MHz, CD_3OD):

10/16/2018 4:56:24 PM

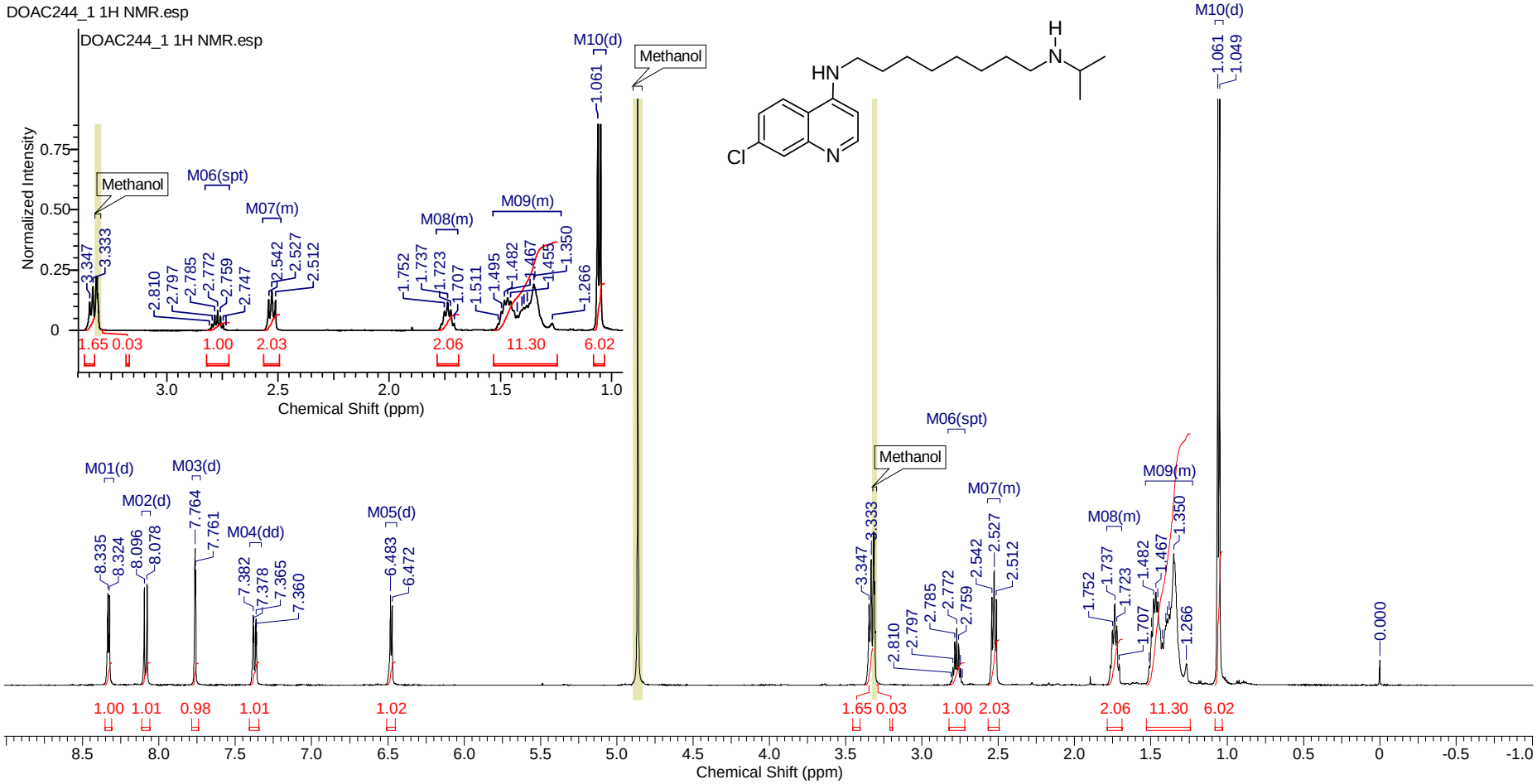
Number of Nuclei 0 C's							
Acquisition Time (sec)	0.5680	***Comment***	Z8007_0118 (PH BBO 500S2 BB-H-D-05 Z)			***Date***	22 Feb 2017 10:10:24
Date Stamp	22 Feb 2017 10:10:24						
File Name	C:\Users\Dejan Opsenica\Documents\Radni dnevnik\DOAC\DOAC236_237\DOAC237_3\2\pdata\1\1r					***Frequency (MHz)***	125.79
Nucleus	13C	***Number of Transients***	228	***Origin***	spect	***Original Points Count***	16384
Owner	nmrsu	***Points Count***	32768	***Pulse Sequence***	zgpg30	***Receiver Gain***	203.00
SW(cyclical) (Hz)	28846.15	***Solvent***	METHANOL-d4	***Spectrum Offset (Hz)***	14030.2070	***Spectrum Type***	STANDARD
Sweep Width (Hz)	28845.27	***Temperature (degree C)***	25.000				



Compound 27: ^{1}H NMR spectrum (500 MHz, CD_3OD):

17.10.2018 13:07:06

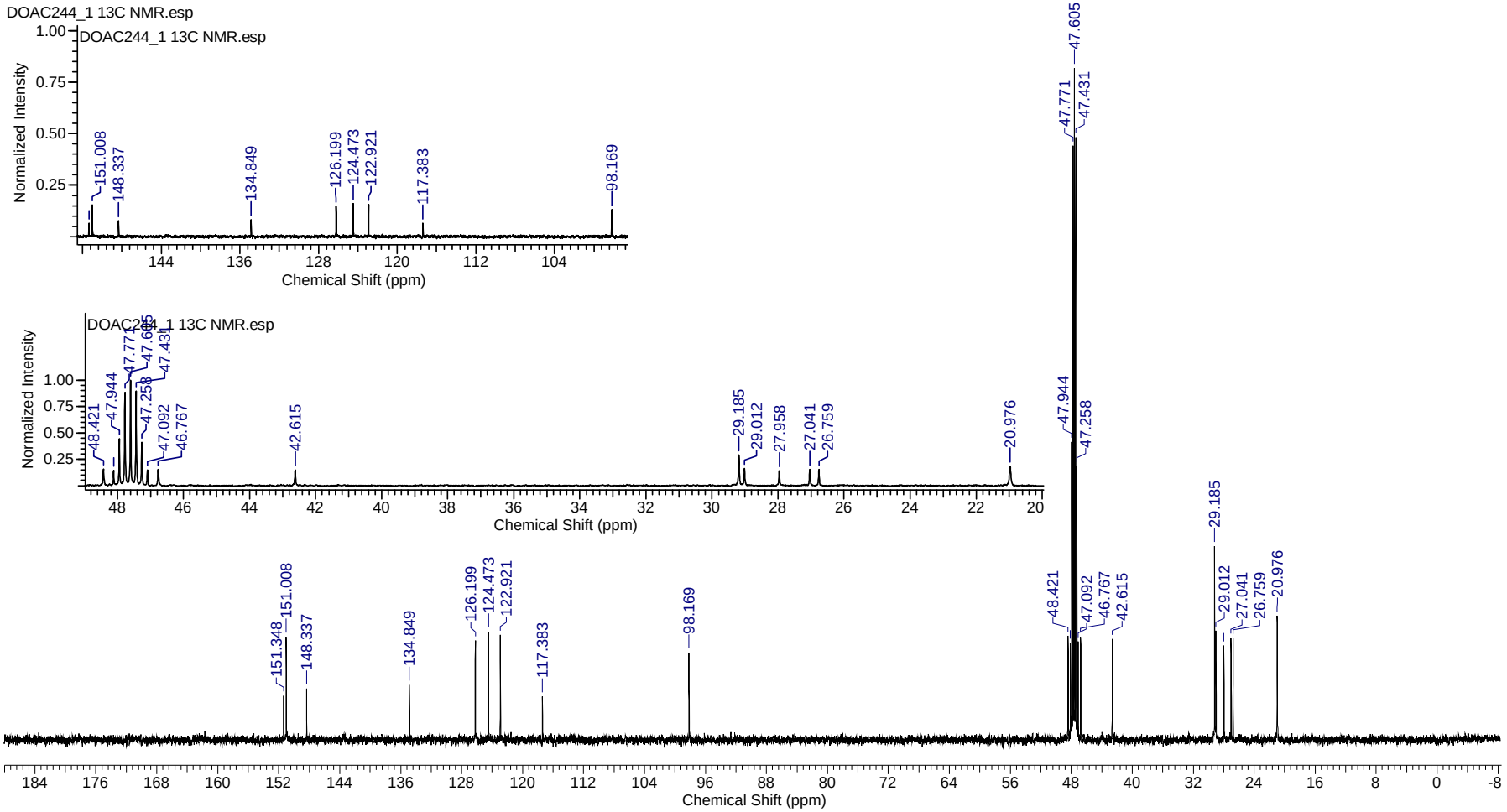
Number of Nuclei 27 H's							
Acquisition Time (sec)	1.6384	***Comment***	Z8007_0118 (PH BBO 500S2 BB-H-D-05 Z)			***Date***	28 Mar 2017 14:26:40
Date Stamp	28 Mar 2017 14:26:40			***File Name***	C:\Users\Dejan Opsenica\Documents\Radni dnevnik\DOAC\DOAC244\DOAC244_1\1\pdata\1\1r		
Frequency (MHz)	500.26	***Nucleus***	1H	***Number of Transients***	16	***Origin***	spect
Original Points Count	16384	***Owner***	nmrsu	***Points Count***	32768	***Pulse Sequence***	zg30
Receiver Gain	203.00	***SW(cyclical) (Hz)***	10000.00	***Solvent***	METHANOL-d4	***Spectrum Offset (Hz)***	4244.4204
Spectrum Type	STANDARD	***Sweep Width (Hz)***	9999.70	***Temperature (degree C)***	25.000		



Compound 27: ^{13}C NMR spectrum (125 MHz, CD_3OD):

17.10.2018 13:08:55

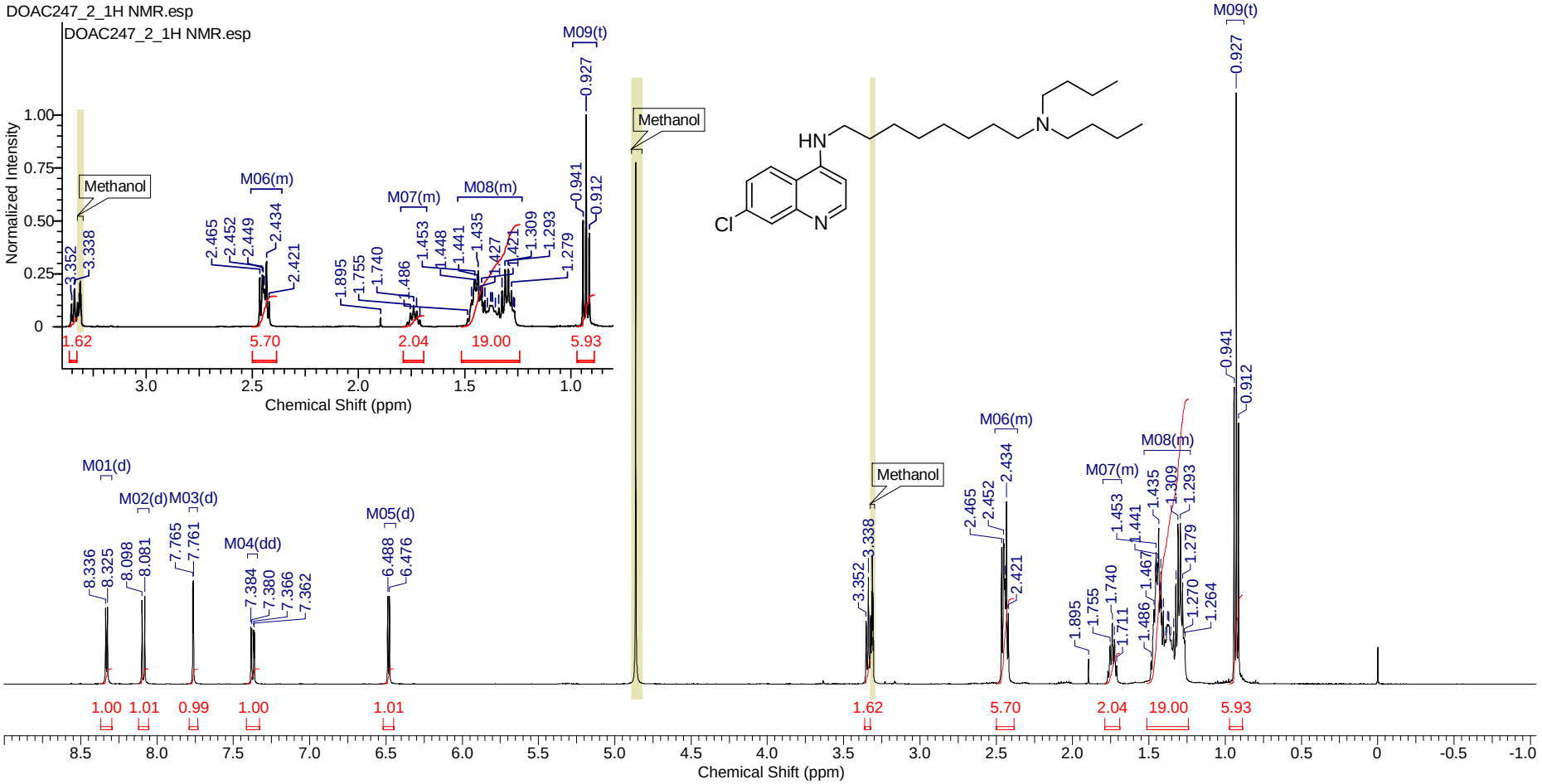
Number of Nuclei 0 C's							
Acquisition Time (sec)	0.5505	***Comment***	Z8007_0118 (PH BBO 500S2 BB-H-D-05 Z)			***Date***	28 Mar 2017 14:39:28
Date Stamp	28 Mar 2017 14:39:28			***File Name***	C:\Users\Dejan Opsenica\Documents\Radni dnevnik\DOAC\DOAC244\DOAC244_1\2\pdata\1\1r		
Frequency (MHz)	125.79	***Nucleus***	13C	***Number of Transients***	252	***Origin***	spect
Original Points Count	16384	***Owner***	nmrsu	***Points Count***	32768	***Pulse Sequence***	zgpg30
Receiver Gain	203.00	***SW(cyclical) (Hz)***	29761.90	***Solvent***	METHANOL-d4	***Spectrum Offset (Hz)***	13836.9502
Spectrum Type	STANDARD	***Sweep Width (Hz)***	29761.00	***Temperature (degree C)***	25.000		



Compound 28: ^{1}H NMR spectrum (500 MHz, CD_3OD):

17.10.2018 14:03:04

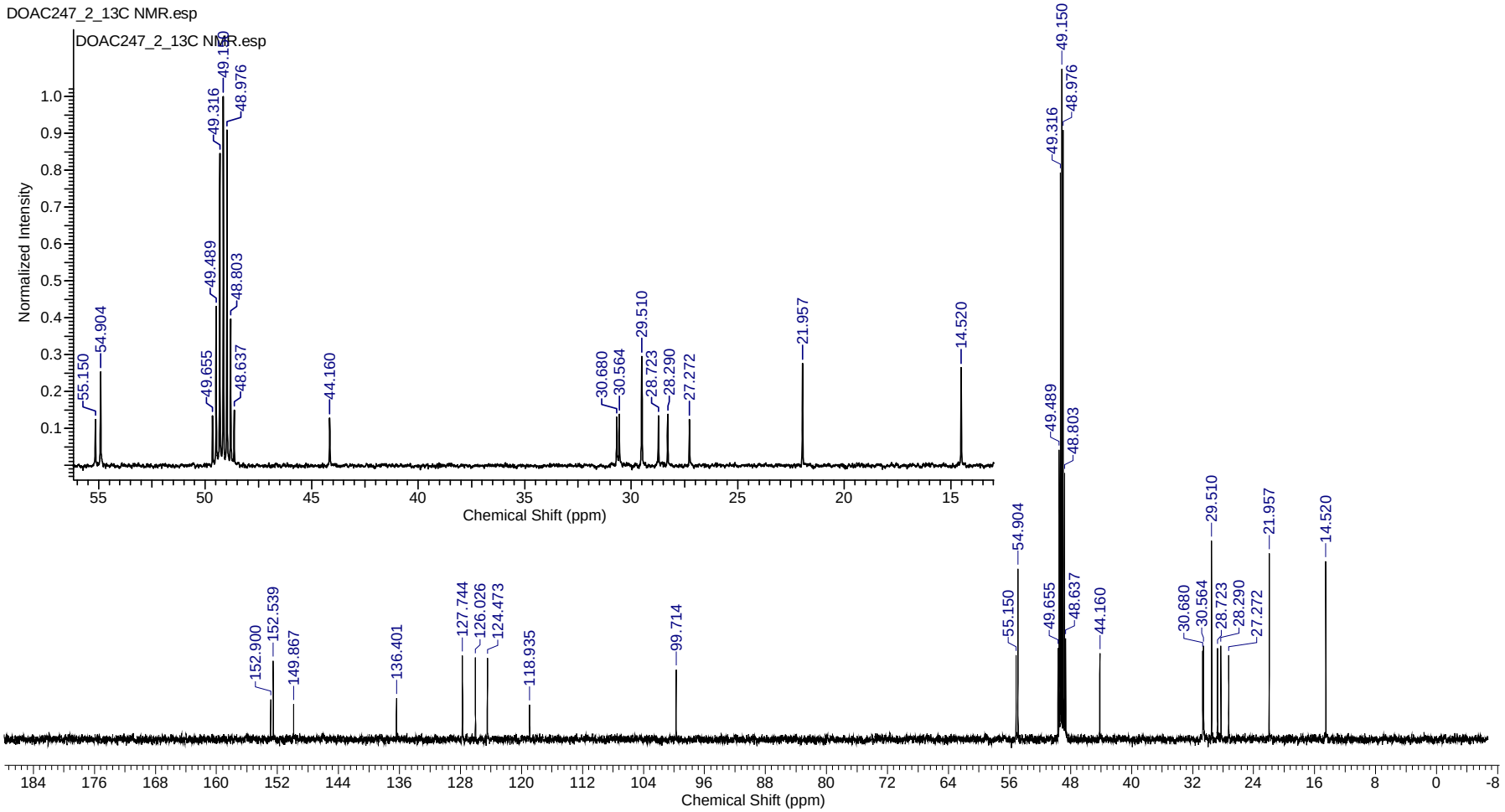
Number of Nuclei 38 H's							
Acquisition Time (sec)	1.6384	***Comment***	Z8007_0118 (PH BBO 500S2 BB-H-D-05 Z)			***Date***	27 Apr 2017 16:17:36
Date Stamp	27 Apr 2017 16:17:36			***File Name***	C:\Users\Dejan Opsenica\Documents\Radni dnevnik\DOAC\DOAC247\DOAC247_2\1\pdata\1\1r		
Frequency (MHz)	500.26	***Nucleus***	1H	***Number of Transients***	16	***Origin***	spect
Original Points Count	16384	***Owner***	nmrsu	***Points Count***	32768	***Pulse Sequence***	zg30
Receiver Gain	203.00	***SW(cyclical) (Hz)***	10000.00	***Solvent***	METHANOL-d4	***Spectrum Offset (Hz)***	4243.9644
Spectrum Type	STANDARD	***Sweep Width (Hz)***	9999.70	***Temperature (degree C)***	25.000		



Compound 28: ^{13}C NMR spectrum (125 MHz, CD_3OD):

17.10.2018 14:04:29

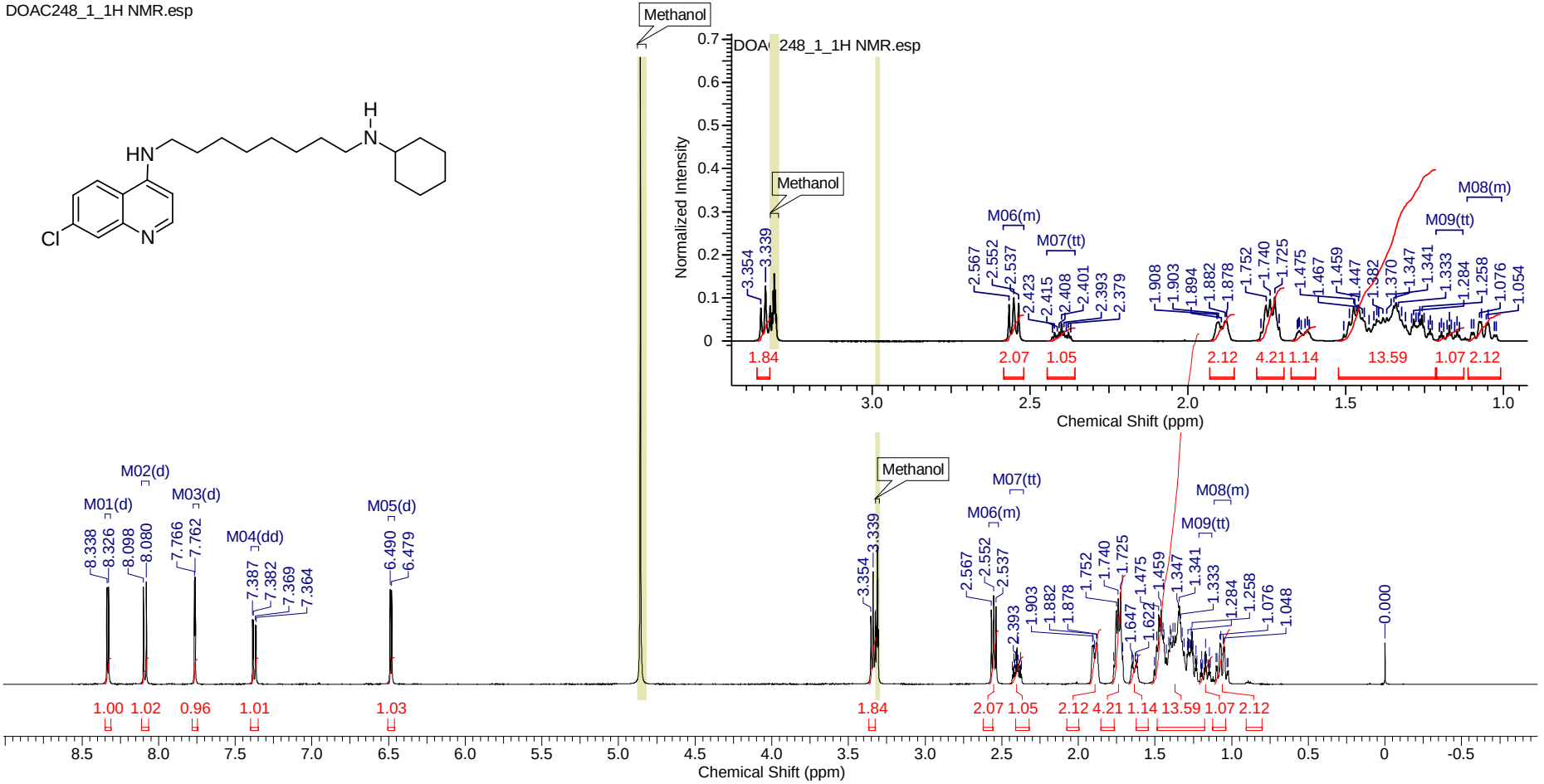
Number of Nuclei 0 C's							
Acquisition Time (sec)	0.5505	*Comment*	Z8007_0118 (PH BBO 500S2 BB-H-D-05 Z)			*Date*	27 Apr 2017 16:26:08
Date Stamp	27 Apr 2017 16:26:08			*File Name*	C:\Users\Dejan Opsenica\Documents\Radni dnevnik\DOAC\DOAC247\DOAC247_2\2\pdata\1\1r		
Frequency (MHz)	125.79	*Nucleus*	13C	*Number of Transients*	232	*Origin*	spect
Original Points Count	16384	*Owner*	nmrsu	*Points Count*	32768	*Pulse Sequence*	zgpg30
Receiver Gain	203.00	*SW(cyclical) (Hz)*	29761.90	*Solvent*	METHANOL-d4	*Spectrum Offset (Hz)*	14031.2773
Spectrum Type	STANDARD	*Sweep Width (Hz)*	29761.00	*Temperature (degree C)*	25.100		



Compound 29: ^{1}H NMR spectrum (500 MHz, CD_3OD):

17.10.2018 16:54:50

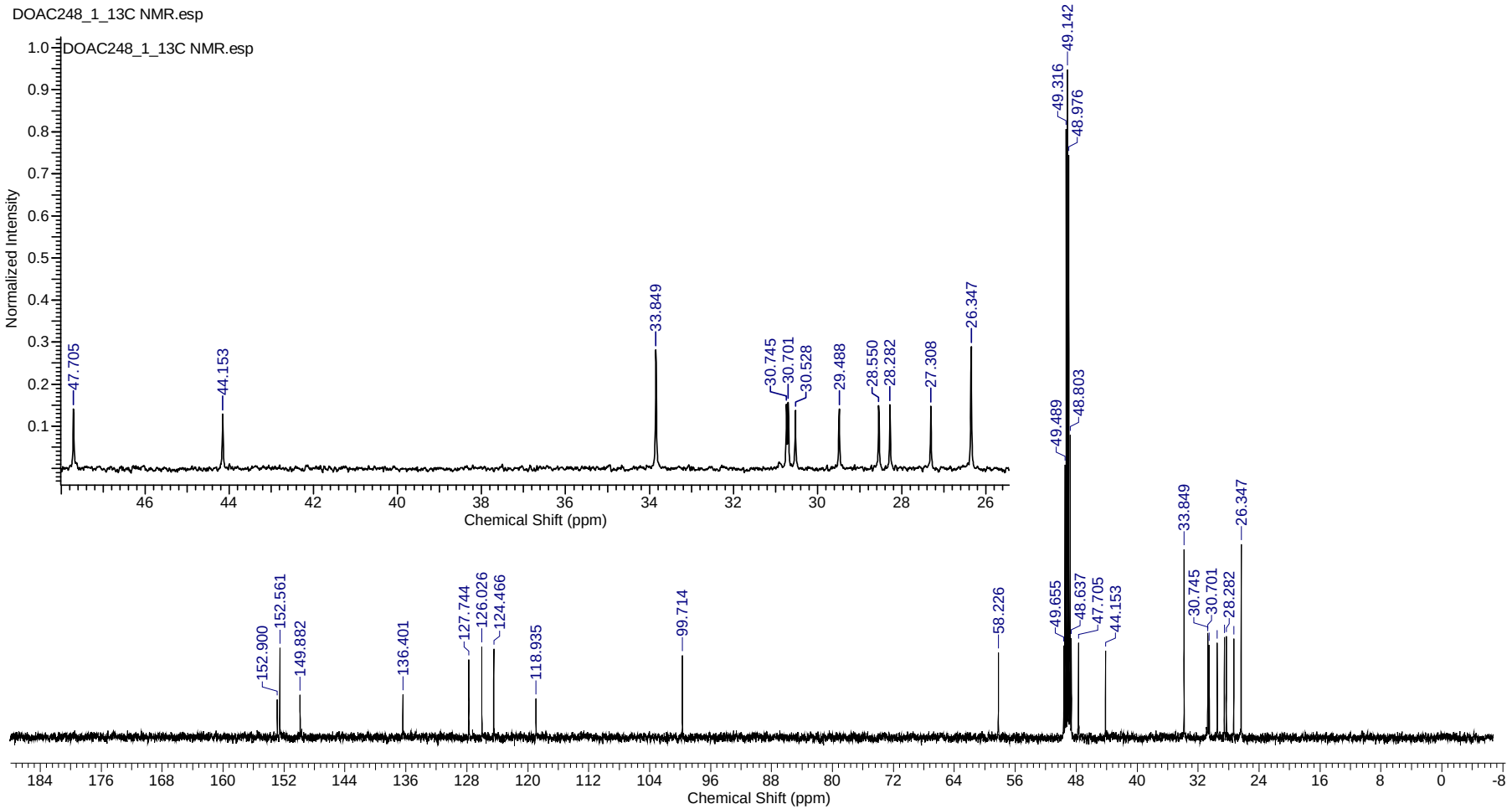
Number of Nuclei 11 H's							
Acquisition Time (sec)	1.6384	*Comment*	Z8007_0118 (PH BBO 500S2 BB-H-D-05 Z)			*Date*	27 Apr 2017 16:58:08
Date Stamp	27 Apr 2017 16:58:08			*File Name*	C:\Users\Dejan Opsenica\Documents\Radni dnevnik\DOAC\DOAC248\DOAC248_1\1\pdata\1\1r		
Frequency (MHz)	500.26	*Nucleus*	1H	*Number of Transients*	16	*Origin*	spect
Original Points Count	16384	*Owner*	nmrsu	*Points Count*	32768	*Pulse Sequence*	zg30
Receiver Gain	203.00	*SW(cyclical) (Hz)*	10000.00	*Solvent*	METHANOL-d4	*Spectrum Offset (Hz)*	4243.1245
Spectrum Type	STANDARD	*Sweep Width (Hz)*	9999.70	*Temperature (degree C)*	25.000		



Compound 29: ^{13}C NMR spectrum (125 MHz, CD_3OD):

17.10.2018 16:56:50

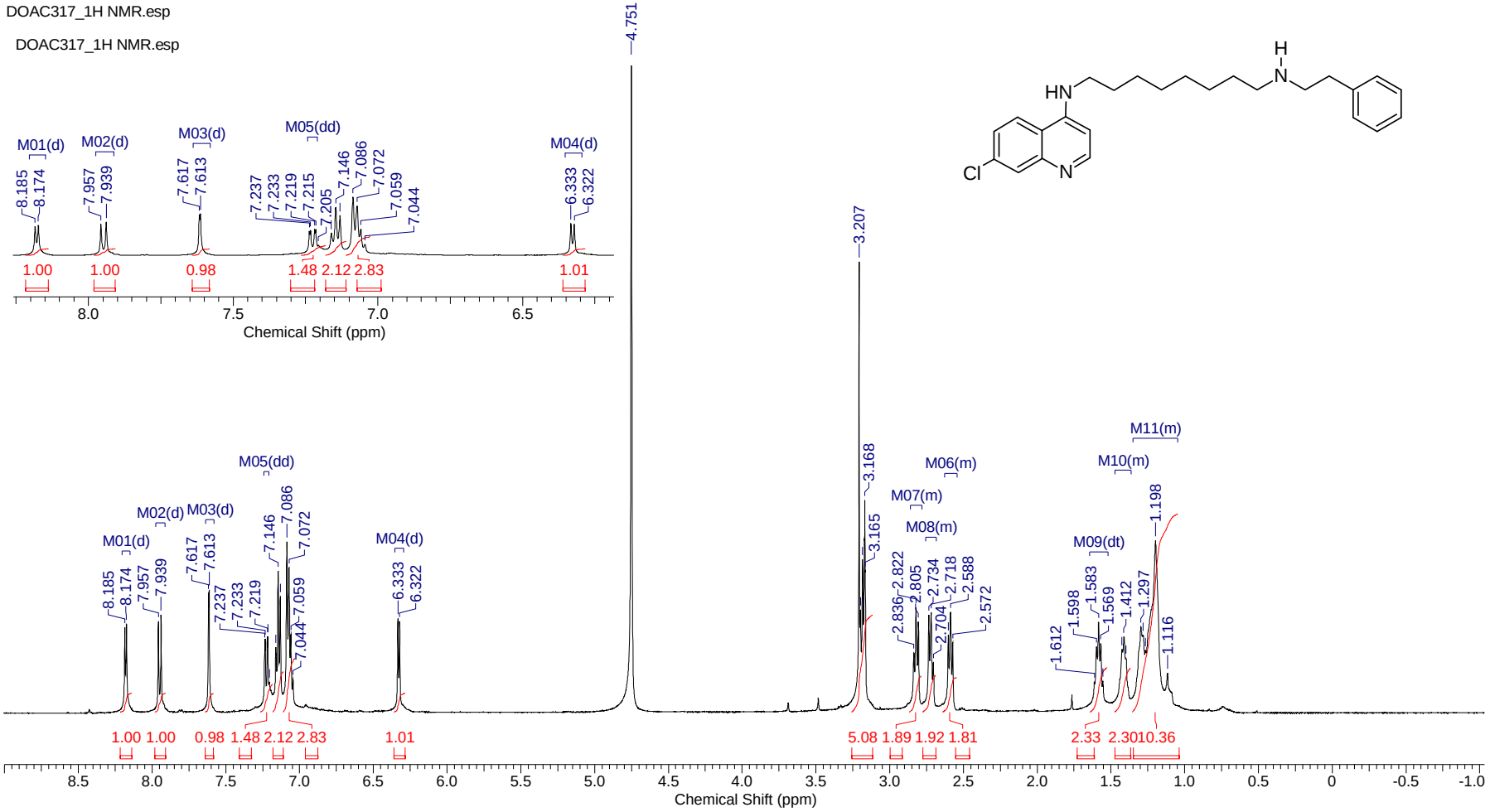
Number of Nuclei 0 C's							
Acquisition Time (sec)	0.5505	*Comment*	Z8007_0118 (PH BBO 500S2 BB-H-D-05 Z)			*Date*	27 Apr 2017 17:06:40
Date Stamp	27 Apr 2017 17:06:40			*File Name*	C:\Users\Dejan Opsenica\Documents\Radni dnevnik\DOAC\DOAC248\DOAC248_1\2\pdata\1\1r		
Frequency (MHz)	125.79	*Nucleus*	13C	*Number of Transients*	235	*Origin*	spect
Original Points Count	16384	*Owner*	nmrsu	*Points Count*	32768	*Pulse Sequence*	zgpg30
Receiver Gain	203.00	*SW(cyclical) (Hz)*	29761.90	*Solvent*	METHANOL-d4	*Spectrum Offset (Hz)*	14031.2773
Spectrum Type	STANDARD	*Sweep Width (Hz)*	29761.00	*Temperature (degree C)*	25.000		



Compound 30: ^{1}H NMR spectrum (500 MHz, CD_3OD):

16.10.2019 5:57:48

Number of Nuclei 25 H's							
Acquisition Time (sec)	1.6384	***Comment***	Z8007_0118 (PH BBO 500S2 BB-H-D-05 Z)			***Date***	12 Oct 2019 10:17:04
Date Stamp	12 Oct 2019 10:17:04			***File Name***	C:\Users\Dejan Opsenica\Documents\Radni dnevnik\DOAC\DOAC317\DOAC317\1\pdata\1\1r		
Frequency (MHz)	500.26	***Nucleus***	1H	***Number of Transients***	16	***Origin***	spect
Original Points Count	16384	***Owner***	nmrsu	***Points Count***	32768	***Pulse Sequence***	zg30
Receiver Gain	161.00	***SW(cyclical) (Hz)***	10000.00	***Solvent***	METHANOL-d4	***Spectrum Offset (Hz)***	4171.4580
Spectrum Type	STANDARD	***Sweep Width (Hz)***	9999.70	***Temperature (degree C)***	23.700		



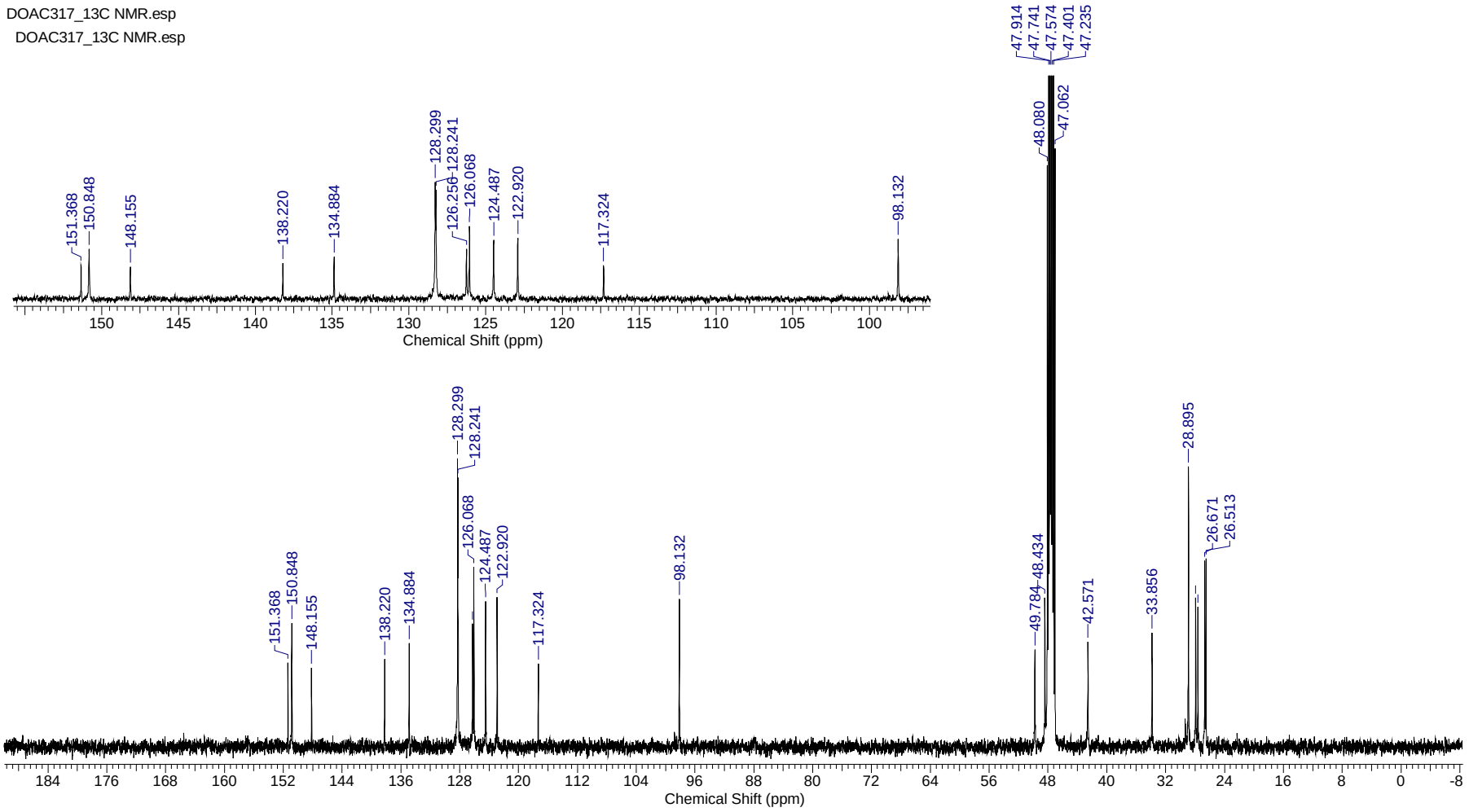
Compound 30: ^{13}C NMR spectrum (125 MHz, CD_3OD):

16.10.2019 6:00:52

Number of Nuclei 0 C's							
Acquisition Time (sec)	0.5505	*Comment*	Z8007_0118 (PH BBO 500S2 BB-H-D-05 Z)			*Date*	12 Oct 2019 10:40:32
Date Stamp	12 Oct 2019 10:40:32			*File Name*	C:\Users\Dejan Opsenica\Documents\Radni dnevnik\DOAC\DOAC317\DOAC317\10\pdata\1\1r		
Frequency (MHz)	125.79	*Nucleus*	13C	*Number of Transients*	513	*Origin*	spect
Original Points Count	16384	*Owner*	nmrsu	*Points Count*	32768	*Pulse Sequence*	zgpg30
Receiver Gain	2050.00	*SW(cyclical) (Hz)*	29761.90	*Solvent*	METHANOL-d4	*Spectrum Offset (Hz)*	13831.3418
Spectrum Type	STANDARD	*Sweep Width (Hz)*	29761.00	*Temperature (degree C)*	25.400		

DOAC317_13C NMR.esp

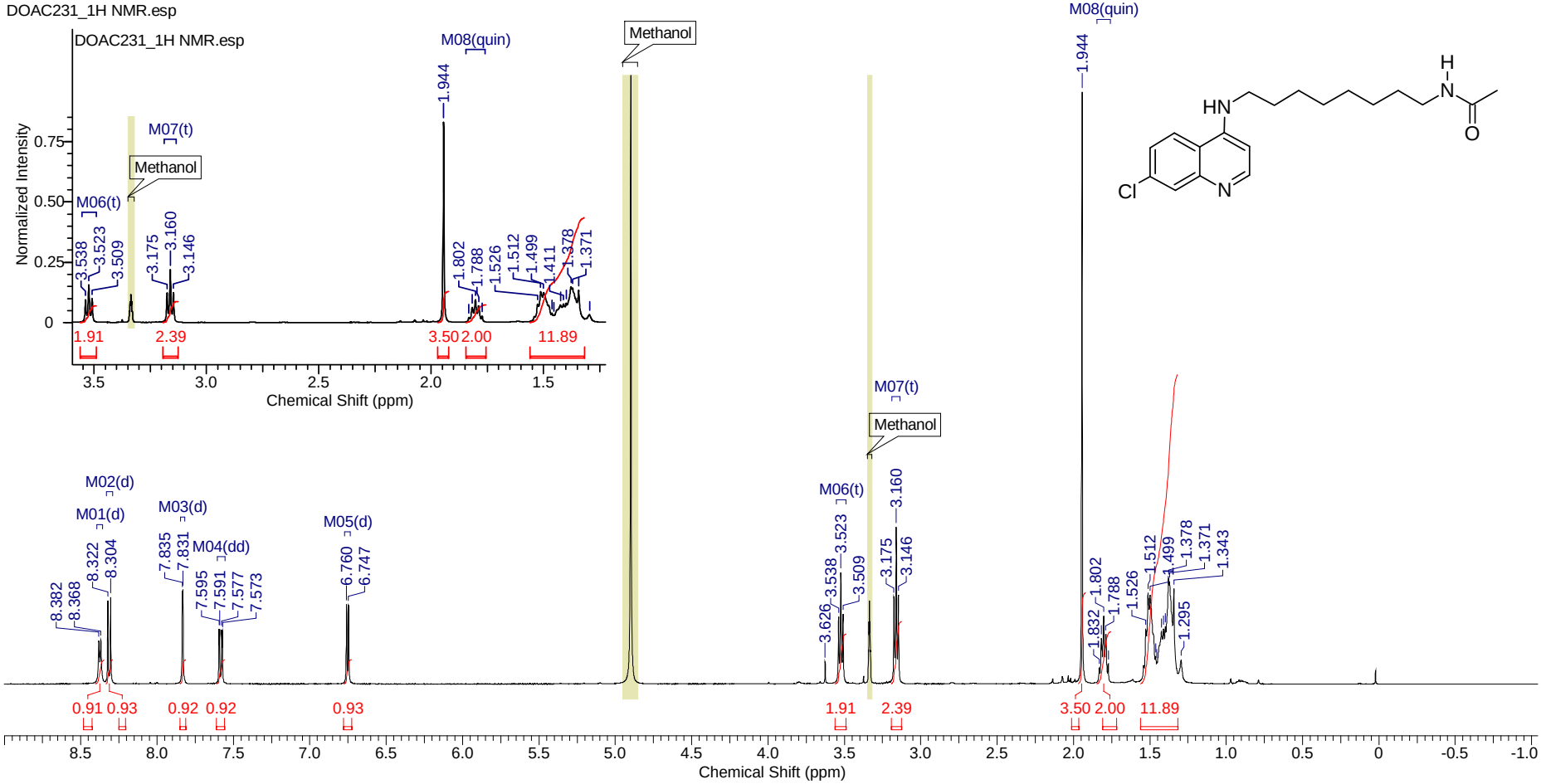
DOAC317_13C NMR.esp



Compound 5: ^{1}H NMR spectrum (500 MHz, CD_3OD):

18.10.2018 16:48:39

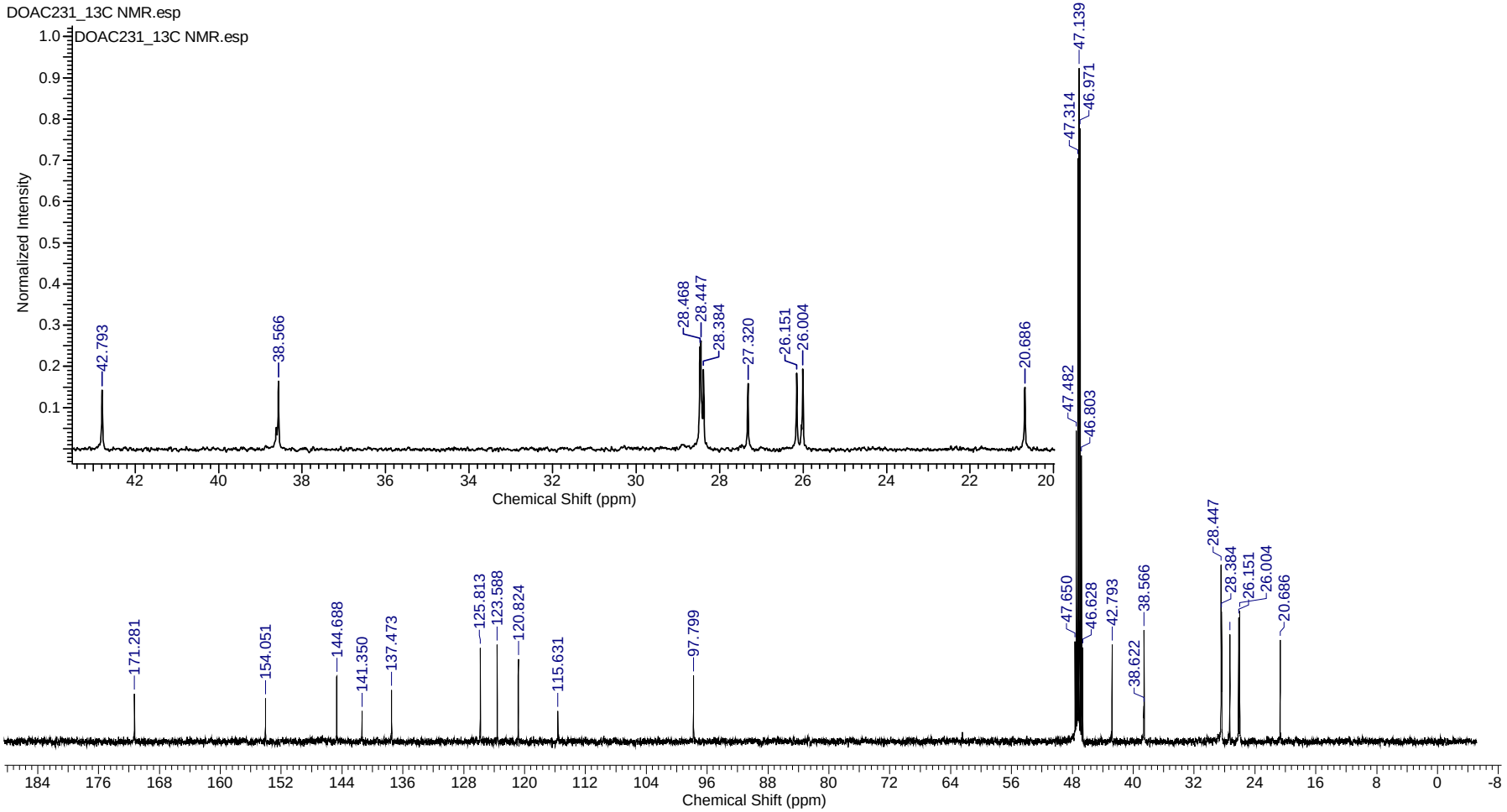
Number of Nuclei 11 H's							
Acquisition Time (sec)	1.6384	***Comment***	Z8007_0118 (PH BBO 500S2 BB-H-D-05 Z)			***Date***	09 Feb 2017 14:17:52
Date Stamp	09 Feb 2017 14:17:52			***File Name***	C:\Users\Dejan Opsenica\Documents\Radni dnevnik\DOAC\DOAC231\DOAC231_1\1\pdata\1\1r		
Frequency (MHz)	500.26	***Nucleus***	1H	***Number of Transients***	8	***Origin***	spect
Original Points Count	16384	***Owner***	nmrsu	***Points Count***	32768	***Pulse Sequence***	zg30
Receiver Gain	101.00	***SW(cyclical) (Hz)***	10000.00	***Solvent***	METHANOL-d4	***Spectrum Offset (Hz)***	4005.4253
Spectrum Type	STANDARD	***Sweep Width (Hz)***	9999.70	***Temperature (degree C)***	25.000		



Compound 5: ^{13}C NMR spectrum (125 MHz, CD_3OD):

18.10.2018 16:50:07

Number of Nuclei 0 C's							
Acquisition Time (sec)	0.5680	*Comment*	Z8007_0118 (PH BBO 500S2 BB-H-D-05 Z)			*Date*	09 Feb 2017 14:34:56
Date Stamp	09 Feb 2017 14:34:56			*File Name*	C:\Users\Dejan Opsenica\Documents\Radni dnevnik\DOAC\DOAC231\DOAC231_1\2\pdata\1\1r		
Frequency (MHz)	125.79	*Nucleus*	13C	*Number of Transients*	355	*Origin*	spect
Original Points Count	16384	*Owner*	nmrsu	*Points Count*	32768	*Pulse Sequence*	zgpg30
Receiver Gain	203.00	*SW(cyclical) (Hz)*	28846.15	*Solvent*	METHANOL-d4	*Spectrum Offset (Hz)*	13777.2100
Spectrum Type	STANDARD	*Sweep Width (Hz)*	28845.27	*Temperature (degree C)*	25.100		

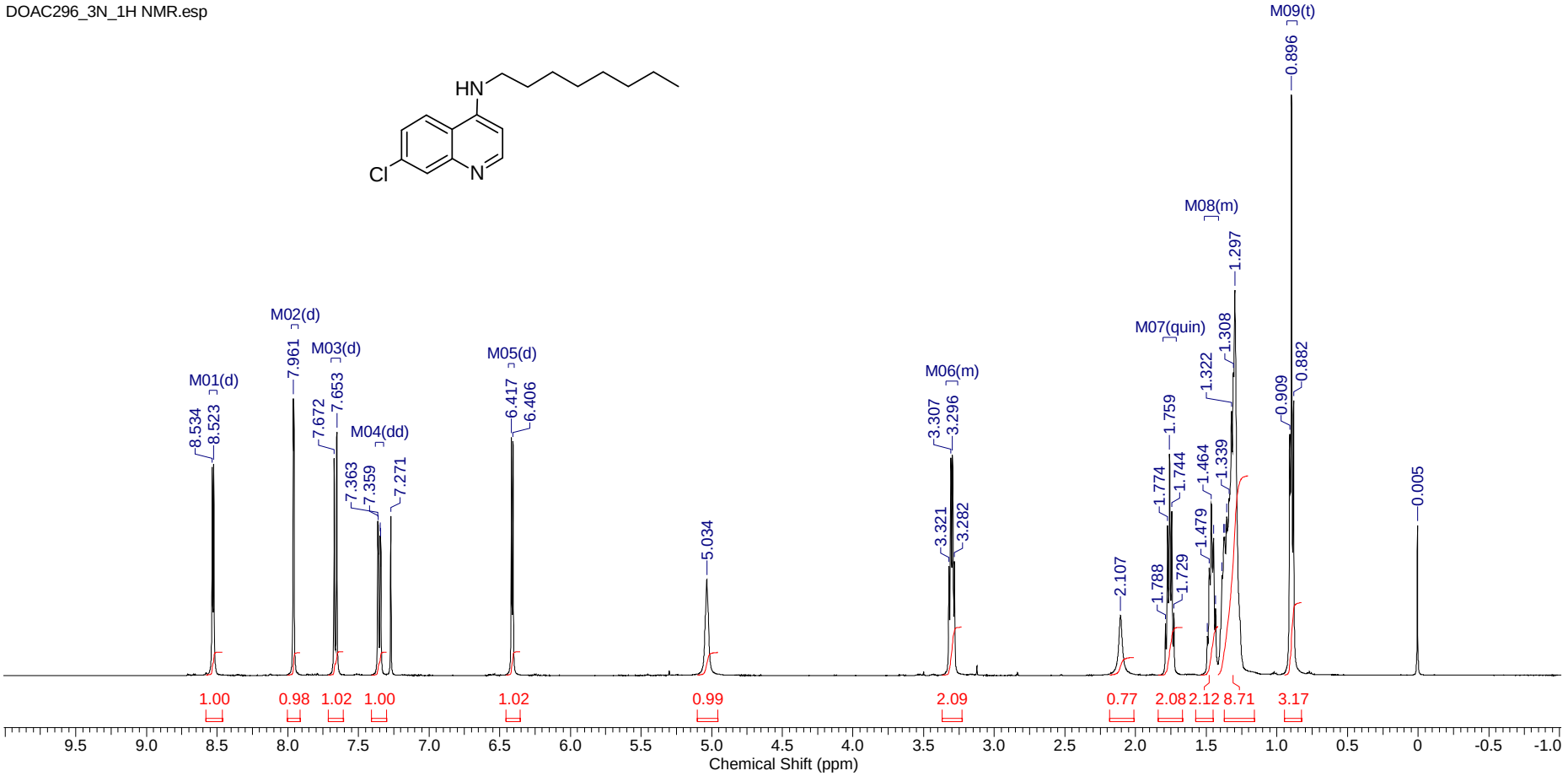


Compound 6: ^{1}H NMR spectrum (500 MHz, CD_3OD):

18.10.2018 17:17:20

Number of Nuclei 14 H's							
Acquisition Time (sec)	1.6384	*Comment*	Z8107_0241 (PH BBI 500S2 H-BB-D-05 Z)			*Date*	25 May 2018 18:25:36
Date Stamp	25 May 2018 18:25:36						
File Name	C:\Users\Dejan Opsenica\Documents\Radni dnevnik\DOAC\DOAC296\DOAC296_3N\1\pdata\1\1r					*Frequency (MHz)*	500.26
Nucleus	1H	*Number of Transients*	8	*Origin*	spect	*Original Points Count*	16384
Owner	nmrsu	*Points Count*	32768	*Pulse Sequence*	zg30	*Receiver Gain*	101.00
SW(cyclical) (Hz)	10000.00	*Solvent*	CHLOROFORM-d			*Spectrum Offset (Hz)*	4245.3105
Spectrum Type	STANDARD	*Sweep Width (Hz)*	9999.70	*Temperature (degree C)*	25.000		

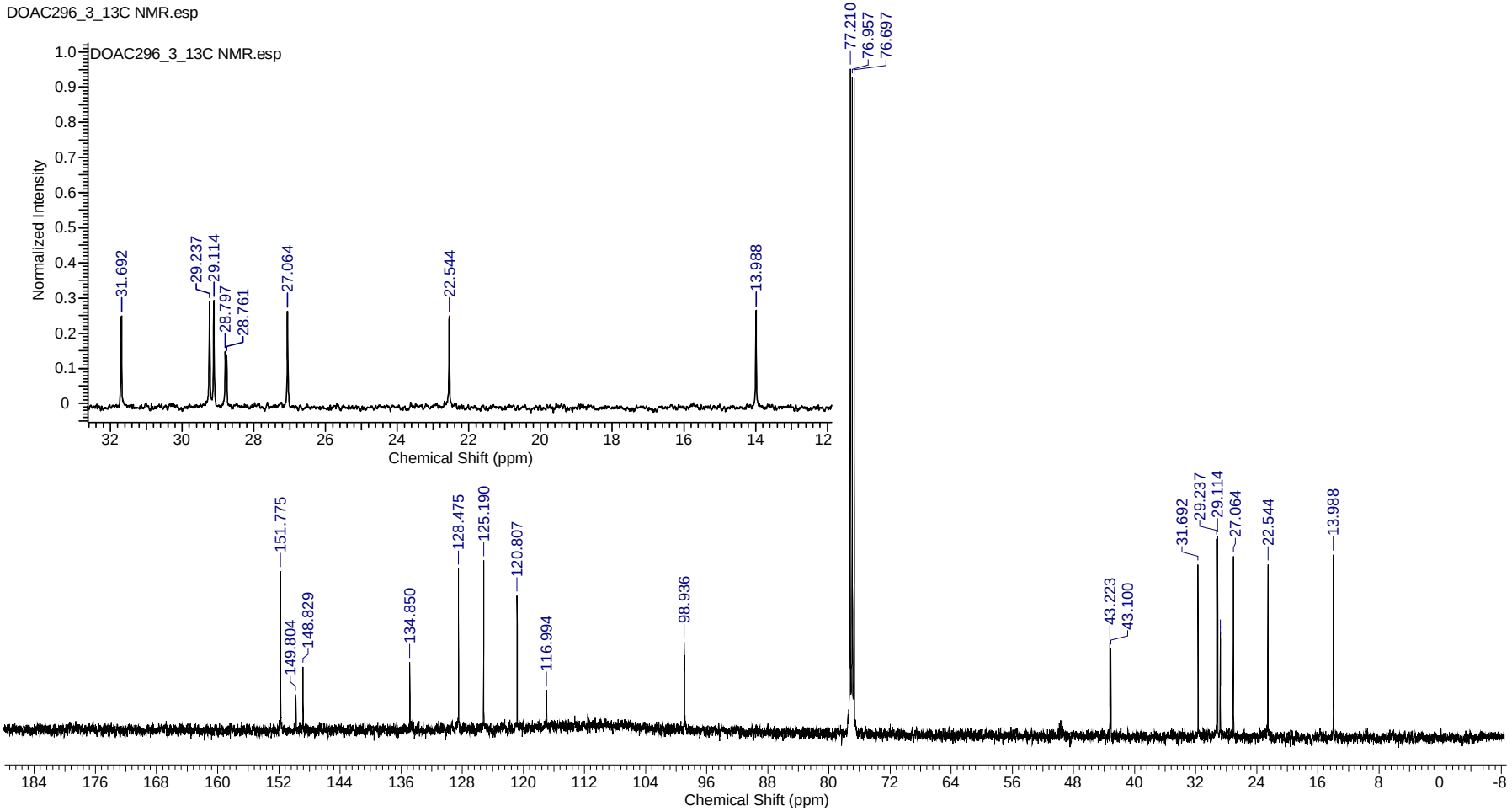
DOAC296_3N_1H NMR.esp



Compound 6: ^{13}C NMR spectrum (125 MHz, CD_3OD):

18.10.2018 17:19:32

Number of Nuclei 0 C's							
Acquisition Time (sec)	0.5505	***Comment***	Z8107_0241 (PH BBI 500S2 H-BB-D-05 Z)			***Date***	10 May 2018 09:47:12
Date Stamp	10 May 2018 09:47:12						
File Name	C:\Users\Dejan Opsenica\Documents\Radni dnevnik\DOAC\DOAC296\DOAC296_3\10\pdata\1\1r					***Frequency (MHz)***	125.79
Nucleus	13C	***Number of Transients***	764	***Origin***	spect	***Original Points Count***	16384
Owner	nmrsu	***Points Count***	32768	***Pulse Sequence***	zgpg30	***Receiver Gain***	203.00
SW(cyclical) (Hz)	29761.90	***Solvent***	CHLOROFORM-d	***Spectrum Offset (Hz)***	13826.2236	***Spectrum Type***	STANDARD
Sweep Width (Hz)	29761.00	***Temperature (degree C)***	25.000				

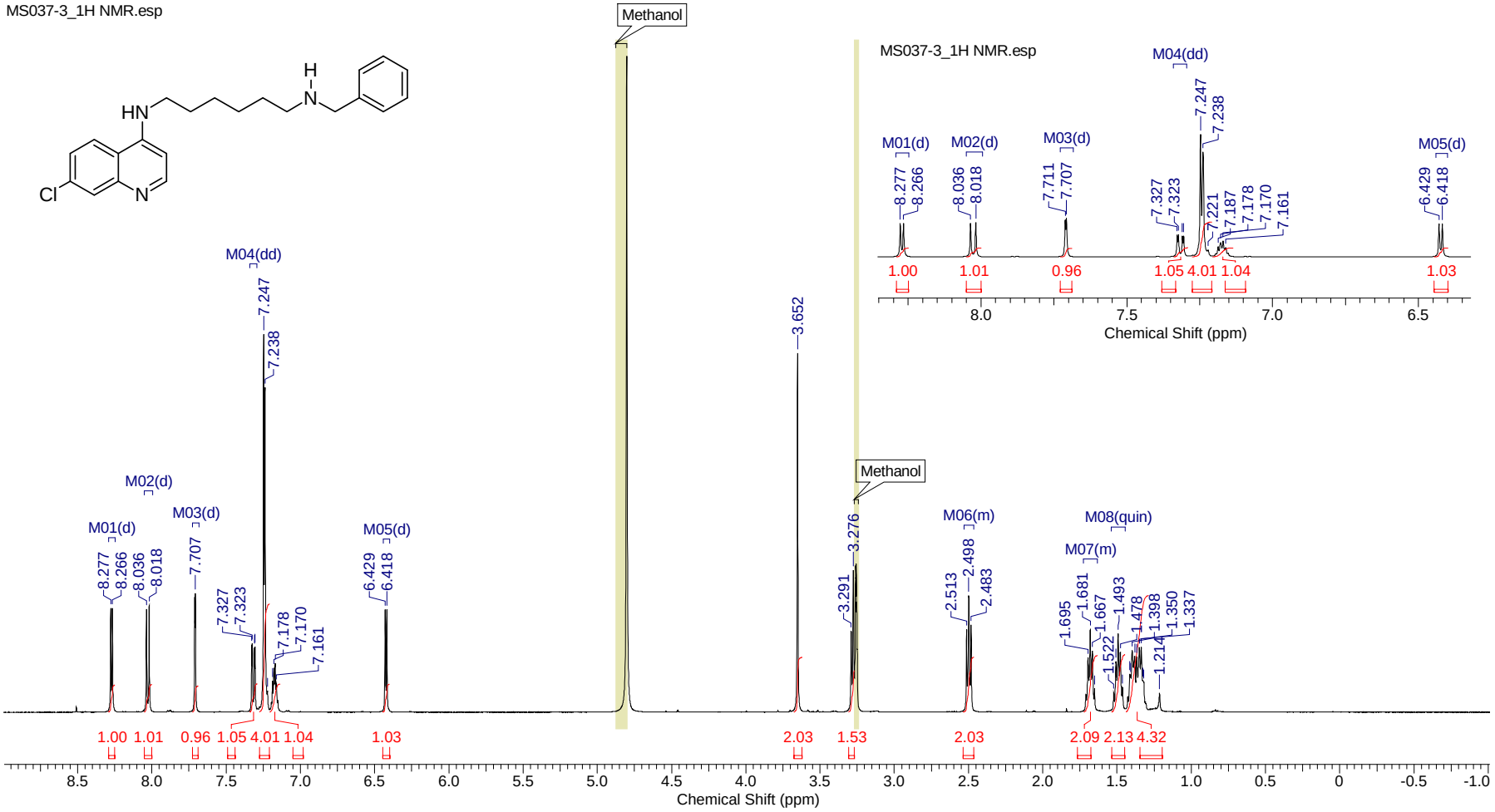


Compound 33: ^{1}H NMR spectrum (500 MHz, CD_3OD):

16.10.2019 6:10:21

Number of Nuclei 11 H's

Acquisition Time (sec)	1.6384	***Comment***	Z8107_0241 (PH BBI 500S2 H-BB-D-05 Z)			***Date***	13 Feb 2019 12:09:52
Date Stamp	13 Feb 2019 12:09:52			***File Name***	C:\Users\Dejan Opsenica\Documents\Posle diplomci\Marta Spasic\Spektri\MS037-3\1\pdata\1\1r		
Frequency (MHz)	500.26	***Nucleus***	1H	***Number of Transients***	32	***Origin***	spect
Original Points Count	16384	***Owner***	nmrsu	***Points Count***	32768	***Pulse Sequence***	zg30
Receiver Gain	114.00	***SW(cyclical) (Hz)***	10000.00	***Solvent***	METHANOL-d4	***Spectrum Offset (Hz)***	4215.5503
Spectrum Type	STANDARD	***Sweep Width (Hz)***	9999.70	***Temperature (degree C)***	25.000		



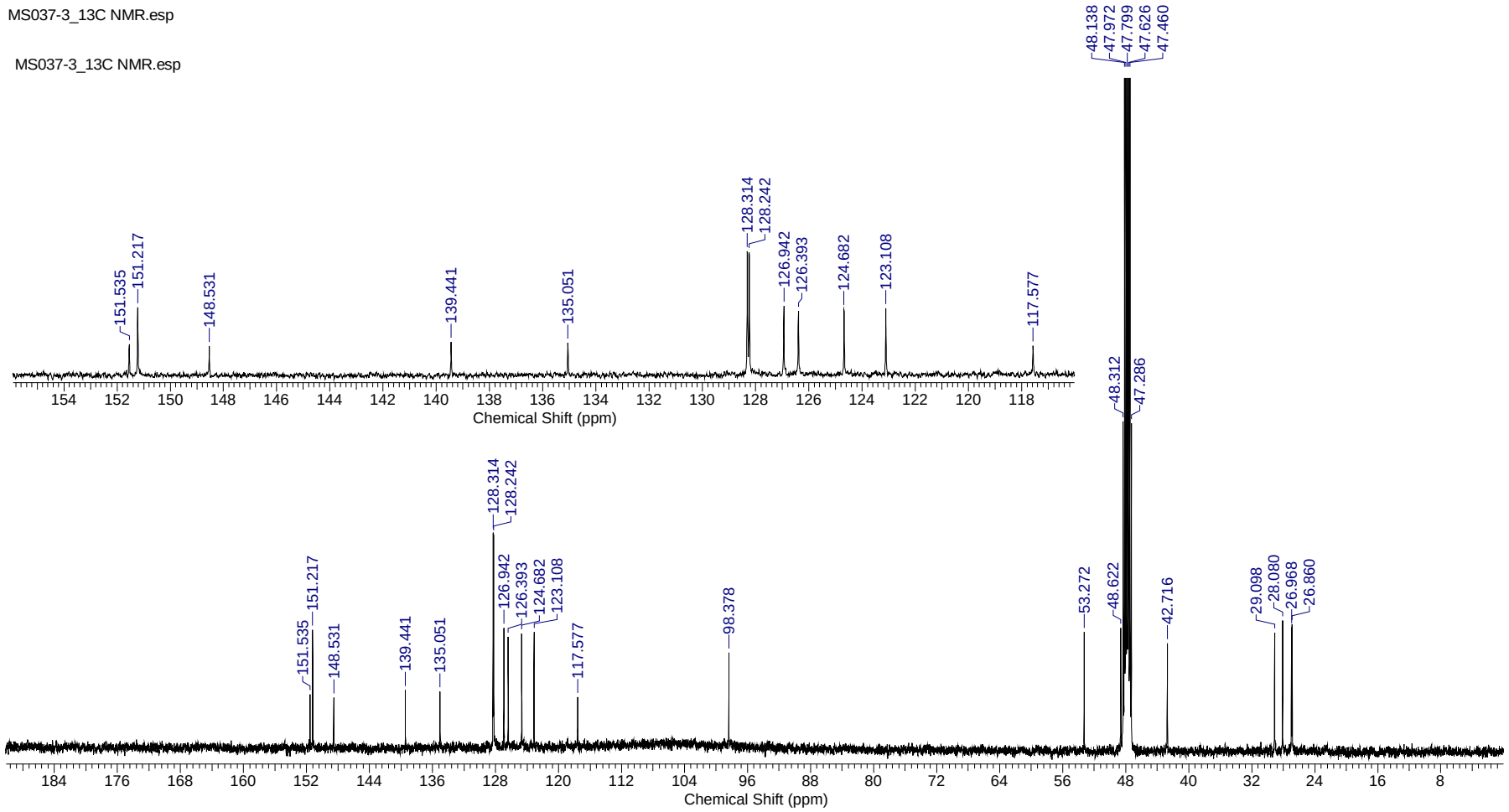
Compound 33: ^{13}C NMR spectrum (125 MHz, CD_3OD)

16.10.2019 6:17:41

Number of Nuclei 0 C's							
Acquisition Time (sec)	0.5505	***Comment***	Z8107_0241 (PH BBI 500S2 H-BB-D-05 Z)			***Date***	13 Feb 2019 12:44:00
Date Stamp	13 Feb 2019 12:44:00						
File Name	C:\Users\Dejan Opsenica\Documents\Posle diplomci\Marta Spasic\Spektri\MS037-3\10\pdata\1\1r					***Frequency (MHz)***	125.79
Nucleus	13C	***Number of Transients***	760	***Origin***	spect	***Original Points Count***	16384
Owner	nmrsu	***Points Count***	32768	***Pulse Sequence***	zgpg30	***Receiver Gain***	203.00
SW(cyclical) (Hz)	29761.90	***Solvent***	METHANOL-d4	***Spectrum Offset (Hz)***	13861.3984	***Spectrum Type***	STANDARD
Sweep Width (Hz)	29761.00	***Temperature (degree C)***	25.000				

MS037-3_13C NMR.esp

MS037-3_13C NMR.esp

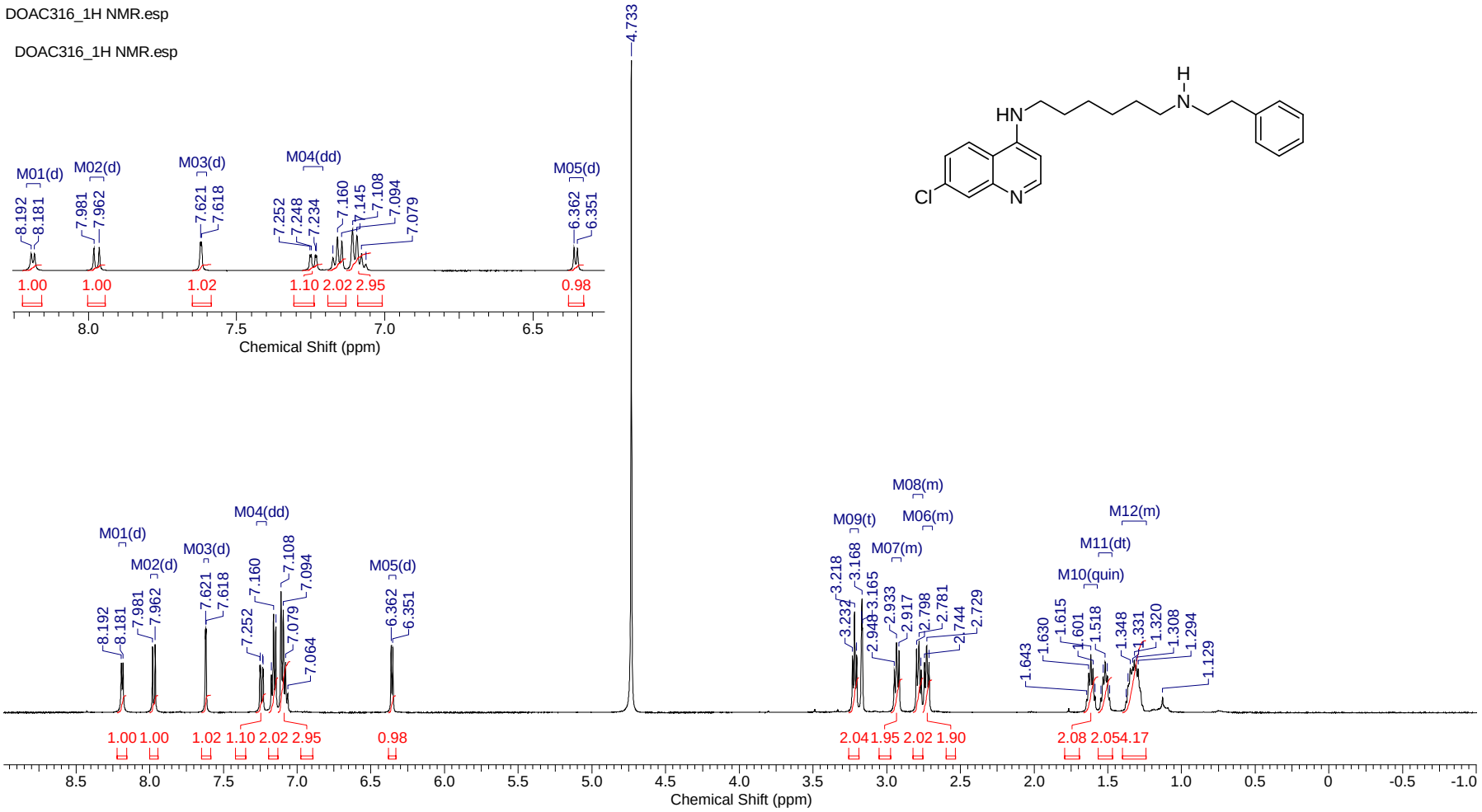


Compound 34: ^{1}H NMR spectrum (500 MHz, CD_3OD):

10/16/2019 10:31:49 AM

Number of Nuclei 21 H's

Acquisition Time (sec)	1.6384	***Comment***	Z8007_0118 (PH BBO 500S2 BB-H-D-05 Z)			***Date***	12 Oct 2019 10:44:48
Date Stamp	12 Oct 2019 10:44:48			***File Name***	C:\Users\Dejan Opsenica\Documents\Radni dnevnik\DOAC\DOAC316\DOAC316\1\pdata\1\1r		
Frequency (MHz)	500.26	***Nucleus***	1H	***Number of Transients***	16	***Origin***	spect
Original Points Count	16384	***Owner***	nmrsu	***Points Count***	32768	***Pulse Sequence***	zg30
Receiver Gain	256.00	***SW(cyclical) (Hz)***	10000.00	***Solvent***	METHANOL-d4	***Spectrum Offset (Hz)***	4171.4580
Spectrum Type	STANDARD	***Sweep Width (Hz)***	9999.70	***Temperature (degree C)***	24.500		



Compound 34: ^{13}C NMR spectrum (125 MHz, CD_3OD)

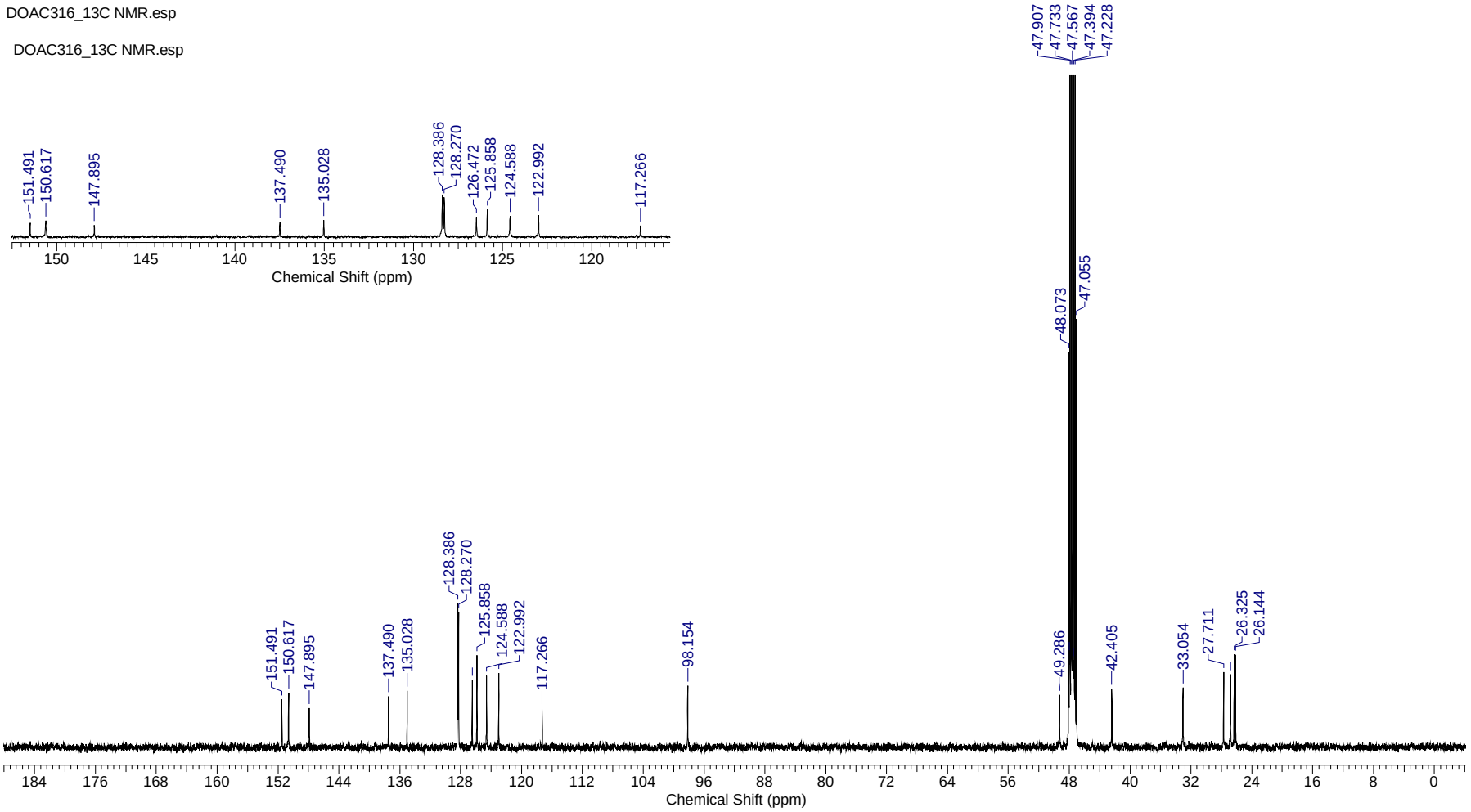
10/16/2019 10:43:57 AM

Number of Nuclei 0 C's

Acquisition Time (sec)	0.5505	***Comment***	Z8007_0118 (PH BBO 500S2 BB-H-D-05 Z)			***Date***	12 Oct 2019 11:14:40
Date Stamp	12 Oct 2019 11:14:40			***File Name***	C:\Users\Dejan Opsenica\Documents\Radni dnevnik\DOAC\DOAC316\DOAC316\10\pdata\1\1r		
Frequency (MHz)	125.79	***Nucleus***	13C	***Number of Transients***	671	***Origin***	spect
Original Points Count	16384	***Owner***	nmrsu	***Points Count***	32768	***Pulse Sequence***	zgpg30
Receiver Gain	2050.00	***SW(cyclical) (Hz)***	29761.90	***Solvent***	METHANOL-d4	***Spectrum Offset (Hz)***	13831.3418
Spectrum Type	STANDARD	***Sweep Width (Hz)***	29761.00	***Temperature (degree C)***	24.800		

DOAC316_13C NMR.esp

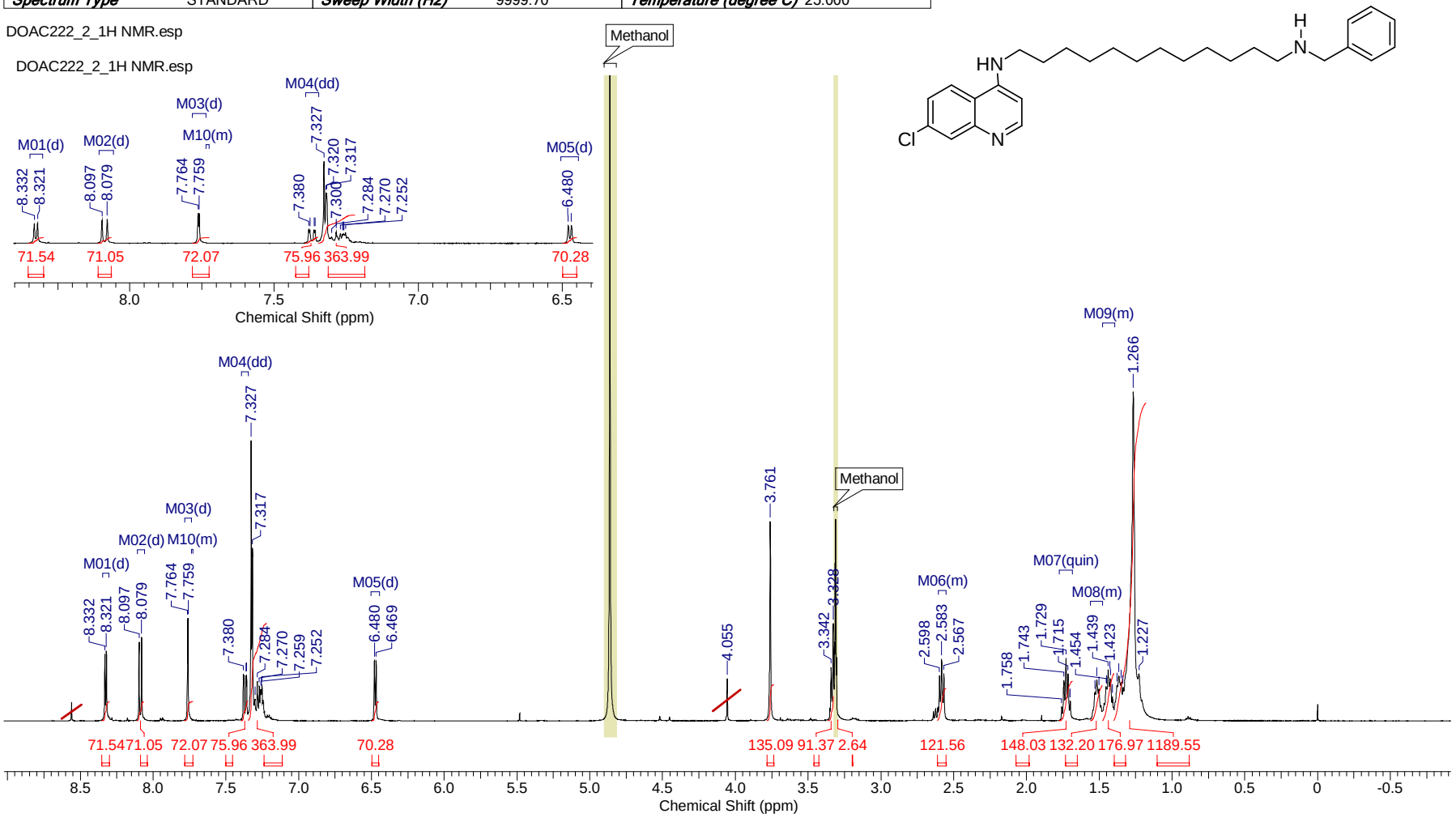
DOAC316_13C NMR.esp



Compound 35: ^{1}H NMR spectrum (500 MHz, CD_3OD):

10/16/2019 11:26:22 AM

Number of Nuclei 15 H's							
Acquisition Time (sec)	1.6384	***Comment***	Z8007_0118 (PH BBO 500S2 BB-H-D-05 Z)			***Date***	18 Jan 2017 15:34:40
Date Stamp	18 Jan 2017 15:34:40			***File Name***	C:\Users\Dejan Opsenica\Documents\Radni dnevnik\DOAC\DOAC222\DOAC222_2\1\pdata\1\1r		
Frequency (MHz)	500.26	***Nucleus***	1H	***Number of Transients***	8	***Origin***	spect
Original Points Count	16384	***Owner***	nmrsu	***Points Count***	32768	***Pulse Sequence***	zg30
Receiver Gain	144.00	***SW(cyclical) (Hz)***	10000.00	***Solvent***	METHANOL-d4	***Spectrum Offset (Hz)***	4243.4946
Spectrum Type	STANDARD	***Sweep Width (Hz)***	9999.70	***Temperature (degree C)***	25.000		

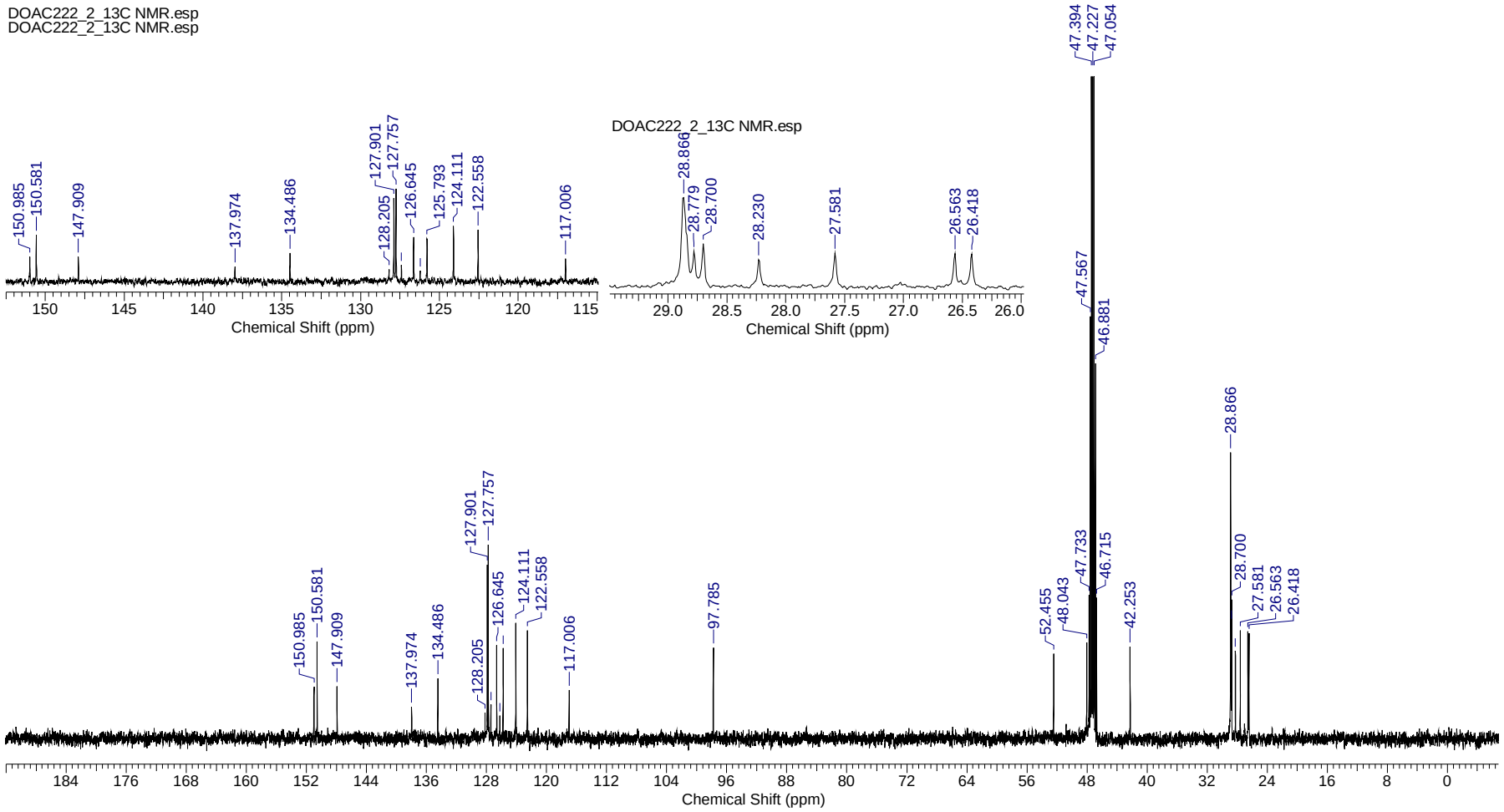


Compound 35: ^{13}C NMR spectrum (125 MHz, CD_3OD)

10/16/2019 11:42:33 AM

Number of Nuclei 0 C's

Acquisition Time (sec)	0.5505	***Comment***	Z8007_0118 (PH BBO 500S2 BB-H-D-05 Z)			***Date***	18 Jan 2017 15:43:12
Date Stamp	18 Jan 2017 15:43:12			***File Name***	C:\Users\Dejan Opsenica\Documents\Radni dnevnik\DOAC\DOAC222\DOAC222_2\2\pdata\1\1r		
Frequency (MHz)	125.79	***Nucleus***	13C	***Number of Transients***	199	***Origin***	spect
Original Points Count	16384	***Owner***	nmrsu	***Points Count***	32768	***Pulse Sequence***	zgpg30
Receiver Gain	203.00	***SW(cyclical) (Hz)***	29761.90	***Solvent***	METHANOL-d4	***Spectrum Offset (Hz)***	13788.5947
Spectrum Type	STANDARD	***Sweep Width (Hz)***	29761.00	***Temperature (degree C)***	25.000		



Data File C:\CHEM32\1\DATA\DEJAN\DO227 2018-11-01 13-27-23.D
Sample Name: DO227 Comp 7

Method A


```
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Acq. Operator   : SYSTEM
                                                  Location : Vial 87
Injection Date  : 11/1/2018 1:28:35 PM
Acq. Method     : METODA 7.M
Analysis Method : C:\CHEM32\1\METHODS\METODA 49.M
Last changed    : 9/24/2018 2:26:58 PM by SYSTEM
Sample Info     : ACN/HCOOH
                  Zorbax Eclipse, 2.1 x 100 mm
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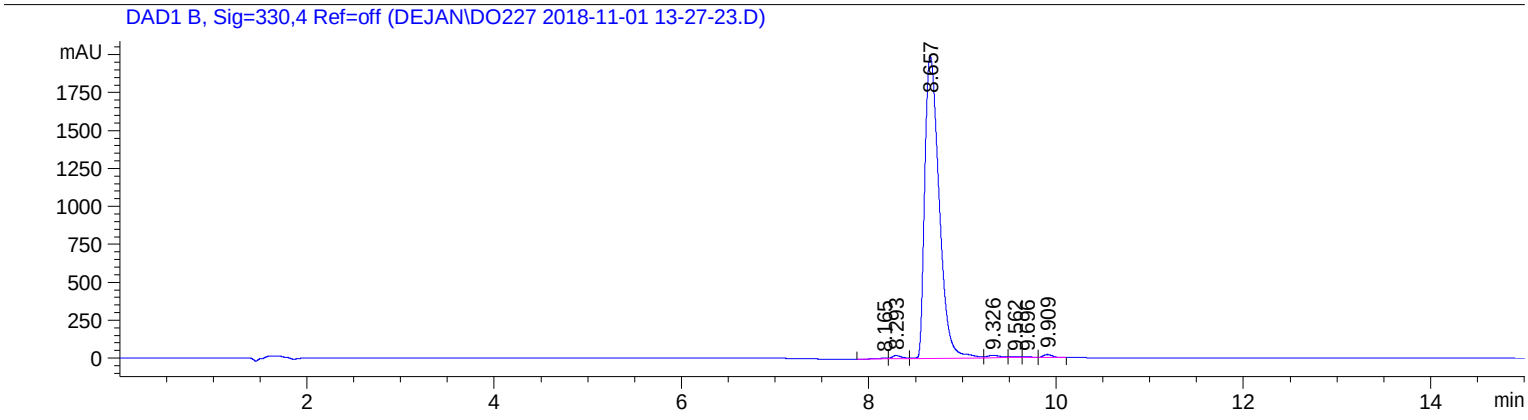


```
==========================================================================================
                            Fraction Information
==========================================================================================
==========================================================================================
No Fractions found.
==========================================================================================
==========================================================================
                          Area Percent Report
==========================================================================

Sorted By             :      Signal
Multiplier            :      1.0000
Dilution              :      1.0000
Use Multiplier & Dilution Factor with ISTDs


 Signal 1: DAD1 B, Sig=330,4 Ref=off

 Peak RetTime Type  Width     Area      Height     Area
   #   [min]        [min]   [mAU*s]     [mAU]       %
 ----|-------|----|-------|----------|----------|--------|
    1   8.165 BV    0.0868   34.09772    5.04972   0.1565
    2   8.293 VV    0.1054  154.69322   20.77459   0.7099
    3   8.657 VV    0.1454 2.12444e4  1992.93250  97.4946
    4   9.326 VV    0.1234  164.93816   17.03742   0.7569
    5   9.562 VV    0.0952   39.80120    4.95385   0.1827
    6   9.696 VB    0.0873   25.52771    3.49259   0.1172
    7   9.909 BB    0.0959  126.87933   19.76035   0.5823

 Totals :                  2.17903e4  2064.00100


 ===================================================================
                           *** End of Report ***
```

Data File C:\CHEM32\1\DATA\DEJAN\AMINOHINOLINI 2.2 2018-11-01 11-37-31\TEST0000001.D
Sample Name: DO230 Comp 8

Method A


```
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Acq. Operator   : SYSTEM                        Seq. Line :   1
Acq. Instrument : HPLC-Solaja                    Location : Vial 85
Injection Date  : 11/1/2018 11:38:44 AM               Inj :   1
                                               Inj Volume : 3.000 µl
Method          : C:\CHEM32\1\DATA\DEJAN\AMINOHINOLINI 2.2 2018-11-01 11-37-31\METODA 7.M (
                  Sequence Method)
Last changed    : 11/1/2018 11:37:31 AM by SYSTEM
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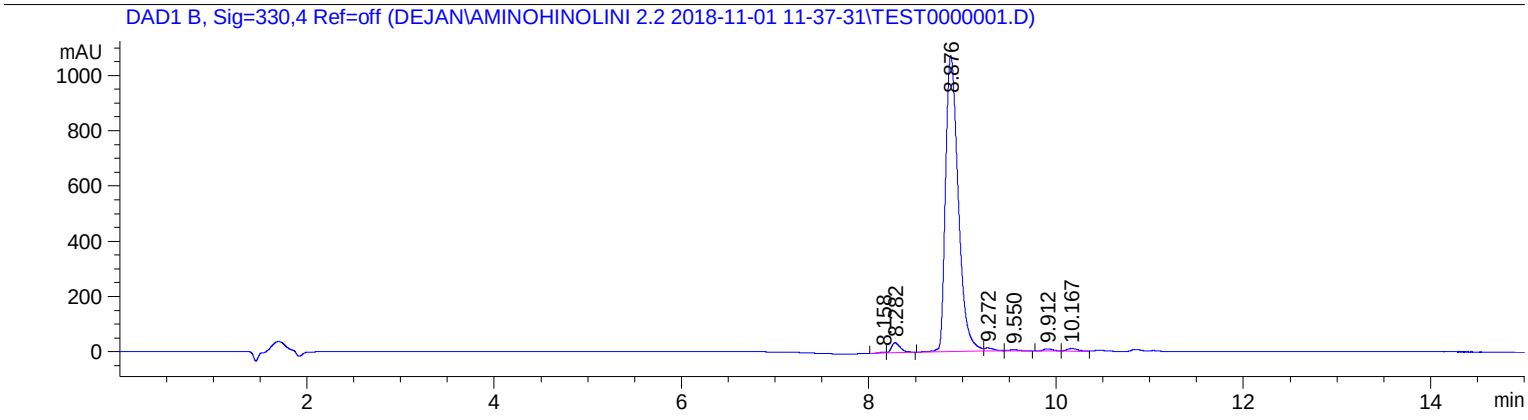


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==========================================================================
                        Fraction Information
==========================================================================
==========================================================================
No Fractions found.
==========================================================================
==========================================================================
                        Area Percent Report
==========================================================================
Sorted By             :      Signal
Multiplier            :      1.0000
Dilution              :      1.0000
Use Multiplier & Dilution Factor with ISTDs


Signal 1: DAD1 B, Sig=330,4 Ref=off

Peak RetTime Type  Width     Area      Height     Area
  #   [min]        [min]   [mAU*s]     [mAU]       %
----|-------|----|-------|----------|----------|--------|
   1   8.158 BV    0.0652   15.16479    2.93888   0.1431
   2   8.282 VB    0.0994  232.11398   35.90717   2.1906
   3   8.876 BV    0.1477 1.01009e4  1069.20544  95.3275
   4   9.272 VB    0.0844   74.48846   10.54910   0.7030
   5   9.550 BB    0.0819   26.50528    3.92086   0.2501
   6   9.912 BV    0.0858   63.36086    8.87589   0.5980
   7  10.167 VV    0.1099   83.46076    9.89235   0.7877

Totals :                  1.05960e4  1141.28969


==========================================================================
                        *** End of Report ***
```

Data File C:\CHEM32\1\DATA\DEJAN\AMINOHINOLINI 2.1 2018-09-18 12-02-19\TEST0000002.D
Sample Name: DO236 Comp 9

Method A


```
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Acq. Operator   : SYSTEM                          Seq. Line :   2
Acq. Instrument : HPLC-Solaja                       Location : Vial 35
Injection Date  : 9/18/2018 12:23:53 PM                Inj :   1
                                                  Inj Volume : 1.000 µl
Method          : C:\CHEM32\1\DATA\DEJAN\AMINOHINOLINI 2.1 2018-09-18 12-02-19\METODA 7.M (
                  Sequence Method)
Last changed    : 9/18/2018 12:02:19 PM by SYSTEM
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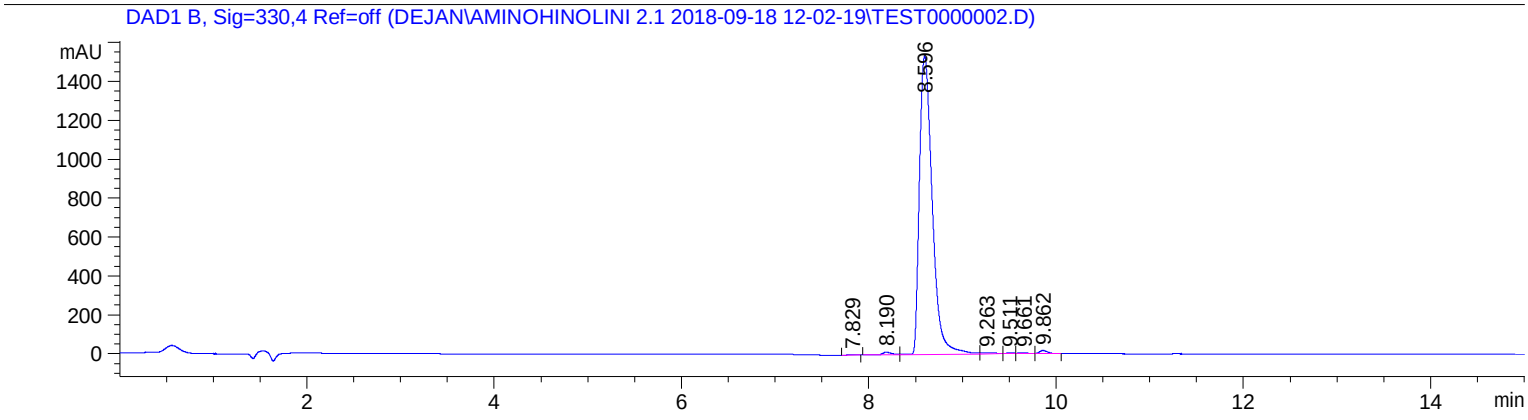


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==========================================================================================
                              Fraction Information
==========================================================================================
==========================================================================================
No Fractions found.
==========================================================================================
==========================================================================
                           Area Percent Report
==========================================================================
Sorted By             :      Signal
Multiplier            :      1.0000
Dilution              :      1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 B, Sig=330,4 Ref=off
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Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	7.829	BB	0.0738	8.48066	1.36890	0.0568
2	8.190	BV	0.1042	91.92566	13.28328	0.6159
3	8.596	VV	0.1506	1.46182e4	1534.57483	97.9418
4	9.263	VV	0.1225	70.70789	6.93210	0.4737
5	9.511	VV	0.0826	23.45382	3.37279	0.1571
6	9.661	VB	0.1083	23.72803	2.59237	0.1590
7	9.862	BB	0.0848	88.89798	15.53431	0.5956

```
Totals :                  1.49254e4  1577.65857


==========================================================================
                           *** End of Report ***
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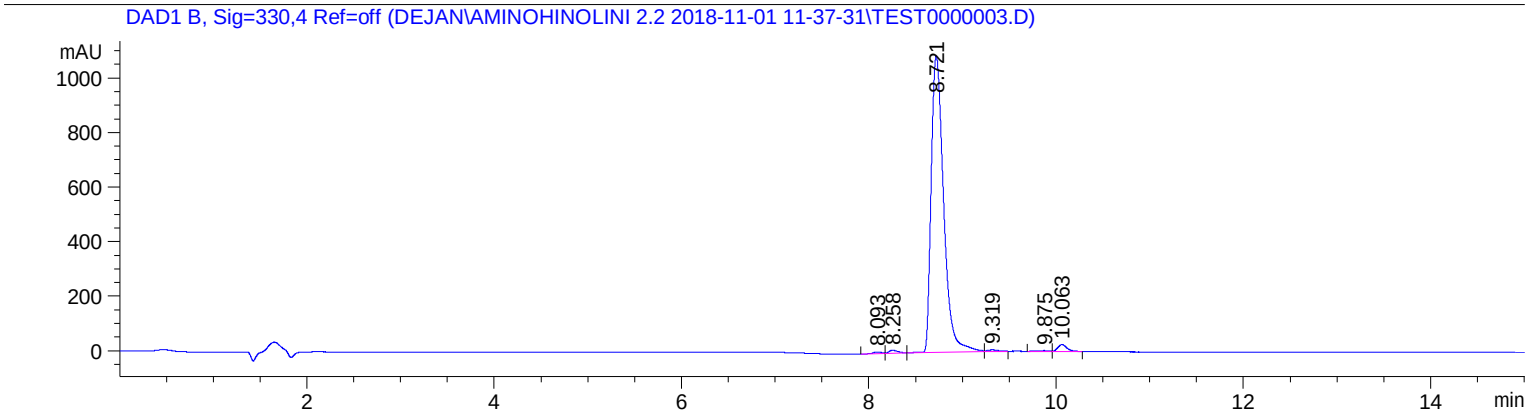
```
Acq. Operator   : SYSTEM                          Seq. Line :   3
Acq. Instrument : HPLC-Solaja                      Location : Vial 89
Injection Date  : 11/1/2018 12:21:22 PM                Inj :   1
                                                  Inj Volume : 3.000 µl
Method          : C:\CHEM32\1\DATA\DEJAN\AMINOHINOLINI 2.2 2018-11-01 11-37-31\METODA 7.M (
                  Sequence Method)
Last changed    : 11/1/2018 11:37:31 AM by SYSTEM
```




```
================================================================================
                          Fraction Information
================================================================================
================================================================================
No Fractions found.
================================================================================
================================================================
                       Area Percent Report
================================================================

Sorted By             :      Signal
Multiplier            :      1.0000
Dilution              :      1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 B, Sig=330,4 Ref=off

Peak RetTime Type  Width     Area      Height     Area
  #   [min]        [min]   [mAU*s]     [mAU]       %
----|-------|----|-------|----------|----------|--------|
   1   8.093 BV    0.0863   40.34766    6.29507   0.3853
   2   8.258 VV    0.0986   82.74297   11.47487   0.7902
   3   8.721 VV    0.1438 1.00911e4  1087.30347  96.3763
   4   9.319 VV    0.1021   51.79910    6.19339   0.4947
   5   9.875 BV    0.1119   27.23767    2.98654   0.2601
   6  10.063 VV    0.1045  177.29134   25.37388   1.6932

Totals :                  1.04705e4  1139.62723

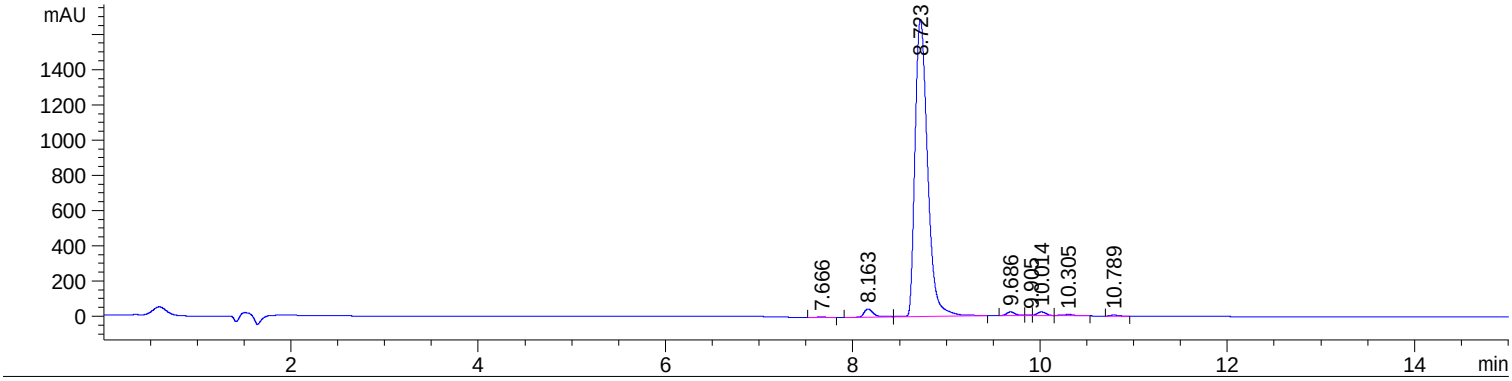

================================================================
                       *** End of Report ***
```

Data File C:\CHEM32\1\DATA\DEJAN\AMINOHINOLINI 2.2 2018-09-13 09-52-42\TEST0000003.D
Sample Name: DO246 Comp 11

Method A


```
==========================================================================
Acq. Operator   : SYSTEM                        Seq. Line :   3
Acq. Instrument : HPLC-Solaja                    Location : Vial 13
Injection Date  : 9/13/2018 10:34:23 AM               Inj :   1
                                                Inj Volume : 1.000 µl
Acq. Method     : C:\CHEM32\1\DATA\DEJAN\AMINOHINOLINI 2.2 2018-09-13 09-52-42\METODA 7.M
Last changed    : 9/13/2018 10:04:51 AM by SYSTEM
Analysis Method : C:\CHEM32\1\DATA\DEJAN\AMINOHINOLINI 2.2 2018-09-13 09-52-42\METODA 7.M (
                  Sequence Method)
Last changed    : 9/13/2018 9:52:43 AM by SYSTEM
```

DAD1 A, Sig=254,4 Ref=off (DEJAN\AMINOHINOLINI 2.2 2018-09-13 09-52-42\TEST0000003.D)




```
==========================================================================================
                            Fraction Information
==========================================================================================
==========================================================================================
No Fractions found.
==========================================================================================
==========================================================================
                          Area Percent Report
==========================================================================

Sorted By             :      Signal
Multiplier            :      1.0000
Dilution              :      1.0000
Use Multiplier & Dilution Factor with ISTDs


Signal 1: DAD1 A, Sig=254,4 Ref=off

 Peak RetTime Type  Width     Area      Height     Area
   #   [min]        [min]   [mAU*s]     [mAU]       %
----|-------|----|-------|----------|----------|--------|
   1   7.666 BB    0.0978   29.68475    3.63325   0.1808
   2   8.163 BV    0.1123  350.12085   47.62823   2.1324
   3   8.723 VB    0.1449 1.56711e4  1686.75854  95.4461
   4   9.686 BV    0.0950  134.38087   20.89490   0.8185
   5   9.905 VV    0.0498   15.98199    3.90030   0.0973
   6  10.014 VB    0.0966  132.31413   20.82815   0.8059
   7  10.305 BB    0.1042   52.54046    6.91376   0.3200
   8  10.789 BV    0.0757   32.66840    5.54796   0.1990

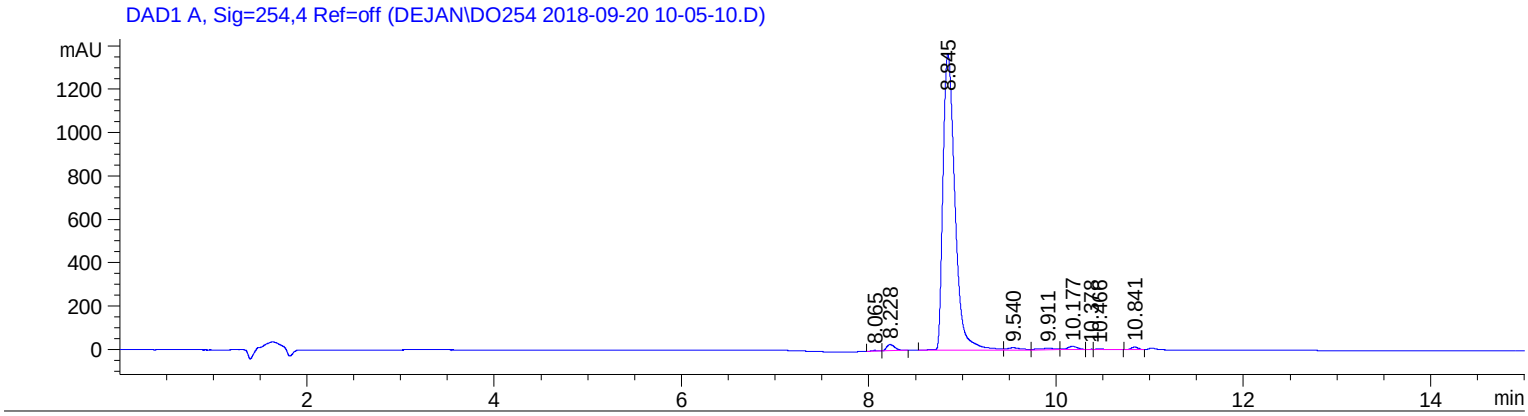
 Totals :                 1.64188e4  1796.10510

 ==========================================================================
                           *** End of Report ***
```

Data File C:\CHEM32\1\DATA\DEJAN\DO254 2018-09-20 10-05-10.D
Sample Name: DO254 Comp 12

Method A


```
==========================================================================
Acq. Operator   : SYSTEM
Acq. Instrument : HPLC-Solaja                    Location : Vial 19
Injection Date  : 9/20/2018 10:06:26 AM
                                                 Inj Volume : 3.000 µl
Acq. Method     : C:\CHEM32\1\METHODS\DEF_LC.M
Last changed    : 9/20/2018 10:04:25 AM by SYSTEM
                  (modified after loading)
Analysis Method : C:\CHEM32\1\METHODS\METODA 7.M
Last changed    : 9/19/2018 1:47:43 PM by SYSTEM
Sample Info     : ACN/HCOOH
                  Zorbax Eclipse, 2.1 x 100 mm
```




```
==========================================================================
                        Fraction Information
==========================================================================
==========================================================================
No Fractions found.
==========================================================================
==========================================================================
                        Area Percent Report
==========================================================================
Sorted By             :      Signal
Multiplier            :      1.0000
Dilution              :      1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=off
```

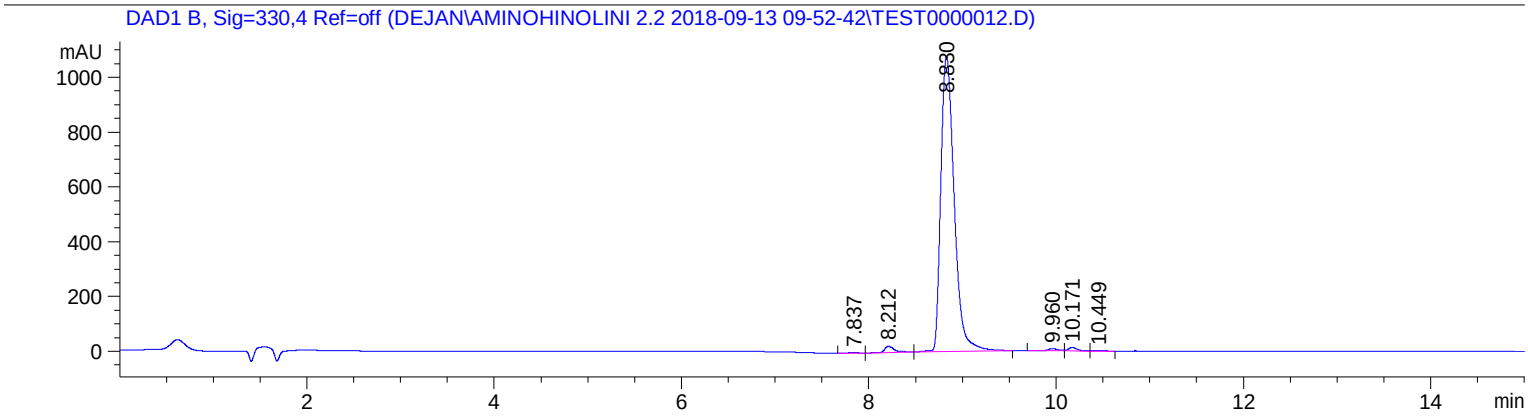
Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	8.065	BB	0.0727	17.92330	3.65729	0.1410
2	8.228	BB	0.0976	173.80232	28.51261	1.3670
3	8.845	BV	0.1389	1.21124e4	1366.62903	95.2705
4	9.540	VV	0.1272	102.09047	9.82686	0.8030
5	9.911	VV	0.1407	83.20872	7.51585	0.6545
6	10.177	VV	0.1165	124.40210	15.52645	0.9785
7	10.378	VV	0.0531	10.02915	2.33483	0.0789
8	10.466	VB	0.1092	26.54539	2.89023	0.2088
9	10.841	BV	0.0820	63.29794	12.11540	0.4979
Totals :				1.27137e4	1449.00854	

```
==========================================================================
                        *** End of Report ***
```

Data File C:\CHEM32\1\DATA\DEJAN\AMINOHINOLINI 2.2 2018-09-13 09-52-42\TEST0000012.D
Sample Name: DO266 Comp 13

Method A

```
Acq. Operator   : SYSTEM                          Seq. Line :  12
Acq. Instrument : HPLC-Solaja                      Location : Vial 22
Injection Date  : 9/13/2018 1:36:36 PM                  Inj :   1
                                                  Inj Volume : 2.000 µl
Acq. Method     : C:\CHEM32\1\DATA\DEJAN\AMINOHINOLINI 2.2 2018-09-13 09-52-42\METODA 7.M
Last changed    : 9/13/2018 12:29:05 PM by SYSTEM
Analysis Method : C:\CHEM32\1\DATA\DEJAN\AMINOHINOLINI 2.2 2018-09-13 09-52-42\METODA 7.M (
                  Sequence Method)
Last changed    : 9/13/2018 9:52:43 AM by SYSTEM
```




```
==========================================================================================
                            Fraction Information
==========================================================================================
==========================================================================================
No Fractions found.
==========================================================================================
==================================================================
                         Area Percent Report
==================================================================

Sorted By             :      Signal
Multiplier            :      1.0000
Dilution              :      1.0000
Use Multiplier & Dilution Factor with ISTDs


Signal 1: DAD1 B, Sig=330,4 Ref=off

Peak RetTime Type  Width     Area      Height     Area
  #   [min]        [min]   [mAU*s]     [mAU]       %
----|-------|----|-------|----------|----------|--------|
   1   7.837 BB    0.0844   14.04472    1.97730   0.1267
   2   8.212 BV    0.1151  177.89819   23.03750   1.6052
   3   8.830 VB    0.1546 1.07274e4  1077.56702  96.7917
   4   9.960 BV    0.1046   66.96434    8.30390   0.6042
   5  10.171 VV    0.0871   81.78810   12.54253   0.7380
   6  10.449 VB    0.0916   14.87581    1.94891   0.1342

Totals :                  1.10830e4  1125.37715

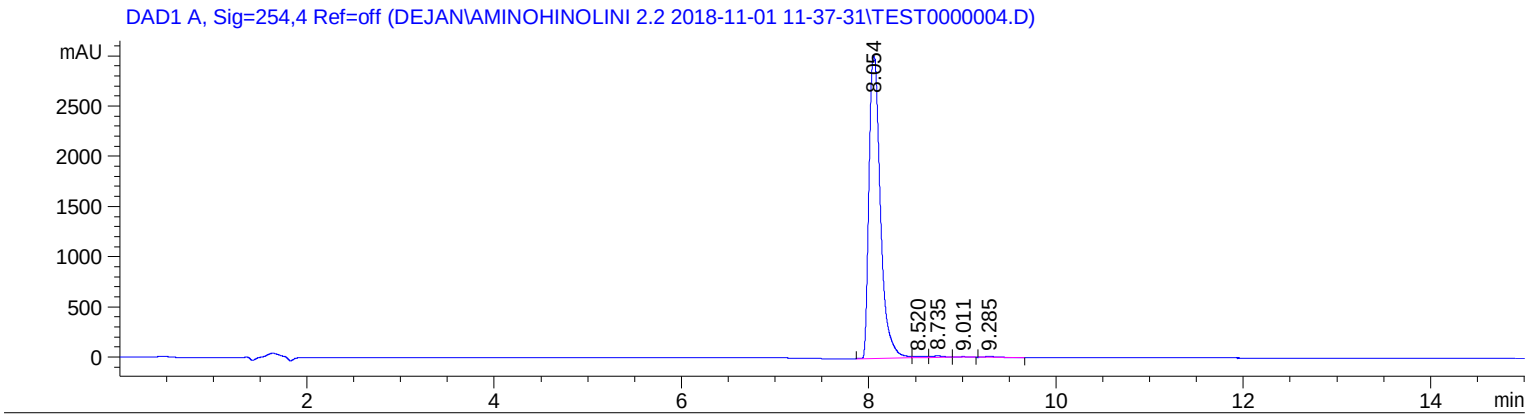

==================================================================
                         *** End of Report ***
```

Data File C:\CHEM32\1\DATA\DEJAN\AMINOHINOLINI 2.2 2018-11-01 11-37-31\TEST0000004.D
Sample Name: DO275 Comp 14

Method A

S98

```
==========================================================================
Acq. Operator   : SYSTEM                        Seq. Line :   4
Acq. Instrument : HPLC-Solaja                    Location : Vial 90
Injection Date  : 11/1/2018 12:42:42 PM               Inj :   1
                                               Inj Volume : 3.000 µl
Method          : C:\CHEM32\1\DATA\DEJAN\AMINOHINOLINI 2.2 2018-11-01 11-37-31\METODA 7.M (
                  Sequence Method)
Last changed    : 11/1/2018 11:37:31 AM by SYSTEM
```




```
==========================================================================================
                            Fraction Information
==========================================================================================
==========================================================================================
No Fractions found.
==========================================================================================
==========================================================================
                         Area Percent Report
==========================================================================

Sorted By             :      Signal
Multiplier            :      1.0000
Dilution              :      1.0000
Use Multiplier & Dilution Factor with ISTDs


Signal 1: DAD1 A, Sig=254,4 Ref=off

Peak RetTime Type  Width     Area      Height     Area
  #   [min]        [min]   [mAU*s]     [mAU]       %
----|-------|----|-------|----------|----------|--------|
   1   8.054 BV    0.1055 2.55541e4  3009.97168  98.7000
   2   8.520 VV    0.1128  110.45628   11.78963   0.4266
   3   8.735 VB    0.1158  111.06418   13.66357   0.4290
   4   9.011 BB    0.0917   33.16832    4.65057   0.1281
   5   9.285 BB    0.1111   81.89635    9.21908   0.3163

Totals :                  2.58907e4  3049.29453

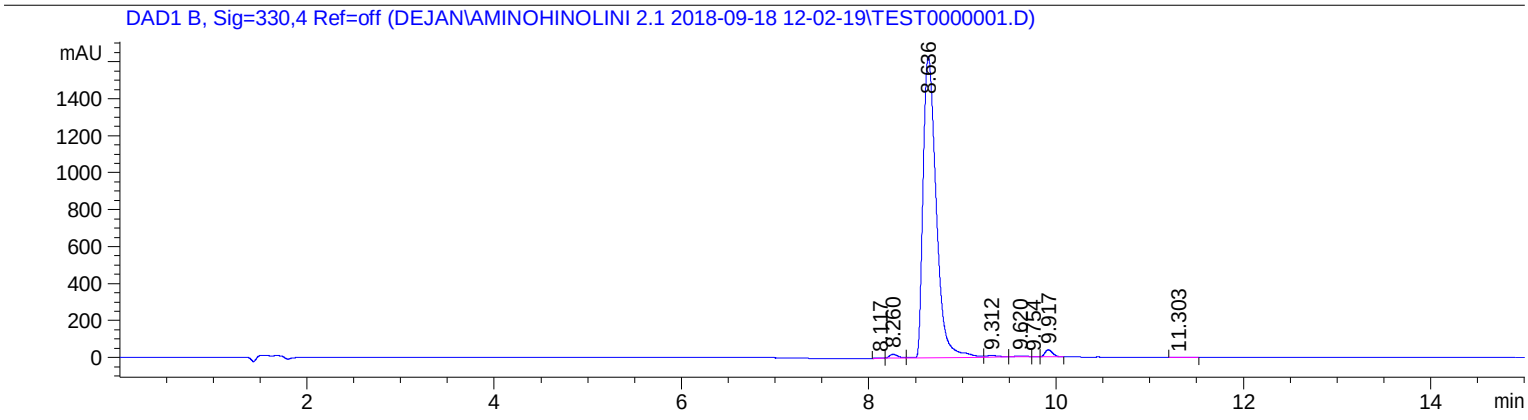
==========================================================================
                          *** End of Report ***
```

Data File C:\CHEM32\1\DATA\DEJAN\AMINOHINOLINI 2.1 2018-09-18 12-02-19\TEST0000001.D
Sample Name: DO229 Comp 15

Method A

S99

```
==========================================================================
Acq. Operator   : SYSTEM                          Seq. Line :   1
Acq. Instrument : HPLC-Solaja                      Location : Vial 32
Injection Date  : 9/18/2018 12:03:36 PM                 Inj :   1
                                                 Inj Volume : 1.000 µl
Method          : C:\CHEM32\1\DATA\DEJAN\AMINOHINOLINI 2.1 2018-09-18 12-02-19\METODA 7.M (
                  Sequence Method)
Last changed    : 9/18/2018 12:02:19 PM by SYSTEM
```




```
==========================================================================================
                            Fraction Information
==========================================================================================
==========================================================================================
No Fractions found.
==========================================================================================
==========================================================================
                          Area Percent Report
==========================================================================

Sorted By             :      Signal
Multiplier            :      1.0000
Dilution              :      1.0000
Use Multiplier & Dilution Factor with ISTDs


Signal 1: DAD1 B, Sig=330,4 Ref=off

Peak RetTime Type  Width     Area      Height     Area
  #   [min]        [min]   [mAU*s]     [mAU]       %
----|-------|----|-------|----------|----------|--------|
   1   8.117 BB    0.0535   11.19060    2.51251   0.0686
   2   8.260 BV    0.0941  119.04088   19.52635   0.7300
   3   8.636 VV    0.1504 1.58211e4  1628.38745  97.0186
   4   9.312 VV    0.1216   87.81814    9.01540   0.5385
   5   9.620 VV    0.1410   41.98489    3.58957   0.2575
   6   9.754 VB    0.0420    6.25083    1.82468   0.0383
   7   9.917 BB    0.0883  209.73447   37.16441   1.2861
   8  11.303 BB    0.0728   10.17469    1.67678   0.0624

Totals :                  1.63073e4  1703.69715

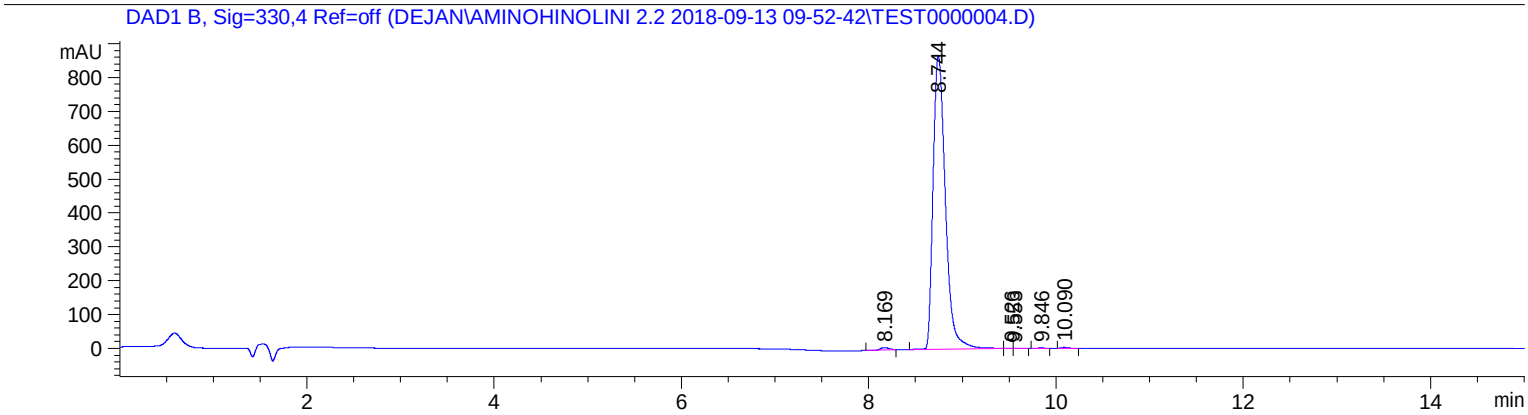
==========================================================================
                          *** End of Report ***
```

Data File C:\CHEM32\1\DATA\DEJAN\AMINOHINOLINI 2.2 2018-09-13 09-52-42\TEST0000004.D
Sample Name: DO247 Comp 16

Method A

S100

```
==========================================================================
Acq. Operator   : SYSTEM                          Seq. Line :   4
Acq. Instrument : HPLC-Solaja                      Location : Vial 14
Injection Date  : 9/13/2018 10:54:37 AM                 Inj :   1
                                                  Inj Volume : 1.000 µl
Acq. Method     : C:\CHEM32\1\DATA\DEJAN\AMINOHINOLINI 2.2 2018-09-13 09-52-42\METODA 7.M
Last changed    : 9/13/2018 10:04:51 AM by SYSTEM
Analysis Method : C:\CHEM32\1\DATA\DEJAN\AMINOHINOLINI 2.2 2018-09-13 09-52-42\METODA 7.M (
                  Sequence Method)
Last changed    : 9/13/2018 9:52:43 AM by SYSTEM
```




```
==========================================================================================
                              Fraction Information
==========================================================================================
==========================================================================================
No Fractions found.
==========================================================================================
==========================================================================
                           Area Percent Report
==========================================================================

Sorted By             :      Signal
Multiplier            :      1.0000
Dilution              :      1.0000
Use Multiplier & Dilution Factor with ISTDs


Signal 1: DAD1 B, Sig=330,4 Ref=off

Peak RetTime Type  Width     Area      Height     Area
  #   [min]        [min]   [mAU*s]     [mAU]       %
----|-------|----|-------|----------|----------|--------|
   1   8.169 BV    0.0935   49.53036    7.36365   0.6172
   2   8.744 BV    0.1429 7930.78027  865.87067  98.8336
   3   9.526 VV    0.0654    9.11742    1.66367   0.1136
   4   9.553 VB    0.0572    7.31425    1.56006   0.0912
   5   9.846 BV    0.0750    9.26997    1.49269   0.1155
   6  10.090 VB    0.0722   18.36773    3.07626   0.2289

Totals :                  8024.38001  881.02700

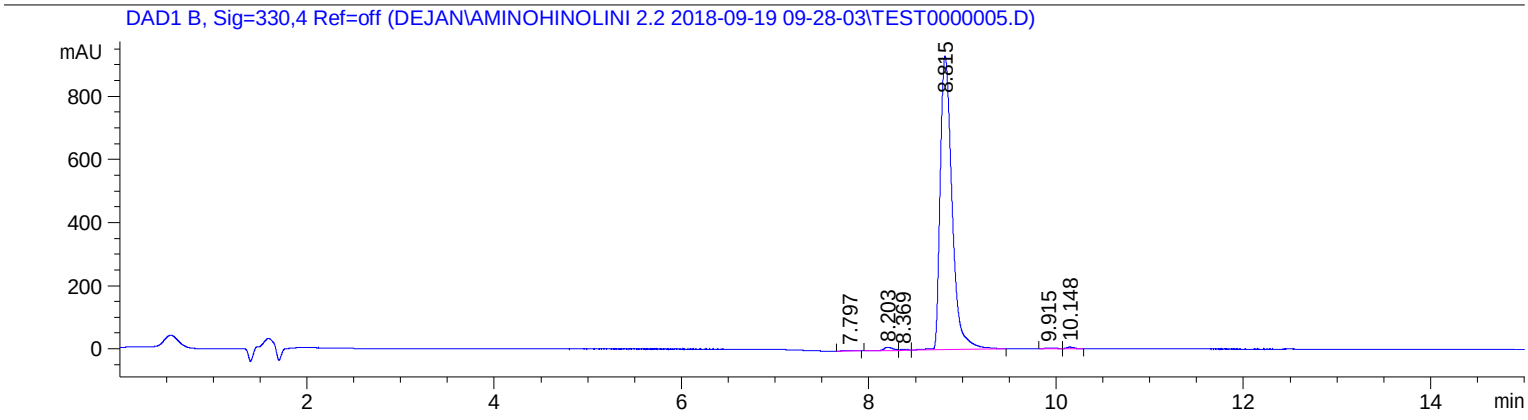

==========================================================================
                          *** End of Report ***
```

Data File C:\CHEM32\1\DATA\DEJAN\AMINOHINOLINI 2.2 2018-09-19 09-28-03\TEST0000005.D
Sample Name: DO253 Comp 17

Method A

S101

```
==========================================================================
Acq. Operator   : SYSTEM                          Seq. Line :   5
Acq. Instrument : HPLC-Solaja                      Location : Vial 18
Injection Date  : 9/19/2018 10:50:25 AM                 Inj :   1
                                                 Inj Volume : 3.000 µl
Acq. Method     : C:\CHEM32\1\DATA\DEJAN\AMINOHINOLINI 2.2 2018-09-19 09-28-03\METODA 7.M
Last changed    : 9/19/2018 9:39:06 AM by SYSTEM
Analysis Method : C:\CHEM32\1\DATA\DEJAN\AMINOHINOLINI 2.2 2018-09-19 09-28-03\METODA 7.M (
                  Sequence Method)
Last changed    : 9/19/2018 9:28:03 AM by SYSTEM
```




```
==========================================================================================
                            Fraction Information
==========================================================================================
==========================================================================================
No Fractions found.
==========================================================================================
==========================================================================
                          Area Percent Report
==========================================================================

Sorted By             :      Signal
Multiplier            :      1.0000
Dilution              :      1.0000
Use Multiplier & Dilution Factor with ISTDs


Signal 1: DAD1 B, Sig=330,4 Ref=off

Peak RetTime Type  Width     Area      Height     Area
  #   [min]       [min]   [mAU*s]     [mAU]       %
----|-------|----|-------|----------|----------|--------|
   1   7.797 BB    0.0967   12.05342    1.47678   0.1442
   2   8.203 BV    0.0884   72.57445   10.46022   0.8681
   3   8.369 VV    0.0822   17.01081    2.45879   0.2035
   4   8.815 VV    0.1369 8203.01270  929.65619  98.1248
   5   9.915 BV    0.0994   22.07737    2.63134   0.2641
   6  10.148 VV    0.0746   33.04540    5.65803   0.3953

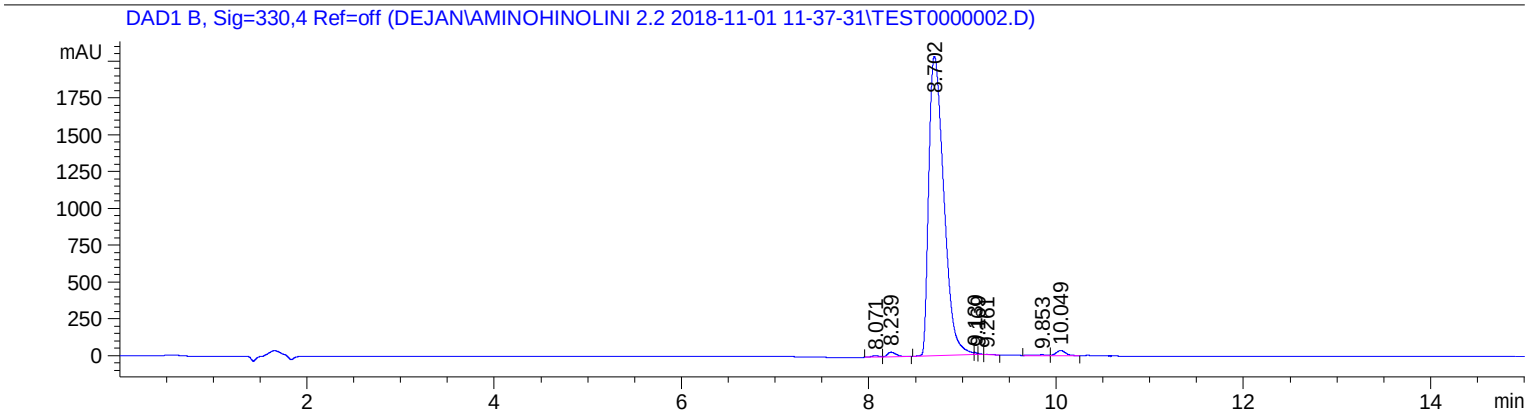
Totals :                  8359.77415  952.34135


==========================================================================
                          *** End of Report ***
```

Data File C:\CHEM32\1\DATA\DEJAN\AMINOHINOLINI 2.2 2018-11-01 11-37-31\TEST0000002.D
Sample Name: DO250 Comp 18

Method A


```
==========================================================================
Acq. Operator   : SYSTEM                        Seq. Line :   2
Acq. Instrument : HPLC-Solaja                    Location : Vial 88
Injection Date  : 11/1/2018 12:00:01 PM               Inj :   1
                                                Inj Volume : 3.000 µl
Method          : C:\CHEM32\1\DATA\DEJAN\AMINOHINOLINI 2.2 2018-11-01 11-37-31\METODA 7.M (
                  Sequence Method)
Last changed    : 11/1/2018 11:37:31 AM by SYSTEM
```




```
==========================================================================
                          Fraction Information
==========================================================================
==========================================================================
No Fractions found.
==========================================================================
==========================================================================
                        Area Percent Report
==========================================================================

Sorted By             :      Signal
Multiplier            :      1.0000
Dilution              :      1.0000
''se Multiplier & Dilution Factor with ISTDs


Signal 1: DAD1 B, Sig=330,4 Ref=off

Peak RetTime Type  Width     Area      Height     Area
  #   [min]        [min]   [mAU*s]     [mAU]       %
----|-------|----|-------|----------|----------|--------|
   1   8.071 BV    0.0767   52.58987    8.92587   0.2263
   2   8.239 VB    0.0985  202.99173   31.17955   0.8734
   3   8.702 BV    0.1634 2.26441e4  2033.17554  97.4309
   4   9.130 VV    0.0201   26.48325   16.65353   0.1139
   5   9.169 VB    0.0171    9.41126    7.02513   0.0405
   6   9.261 BB    0.0830   12.81835    1.85824   0.0552
   7   9.853 BV    0.1052   47.62687    5.51810   0.2049
   8  10.049 VB    0.1048  245.17223   34.74828   1.0549

Totals :                 2.32412e4  2139.08425

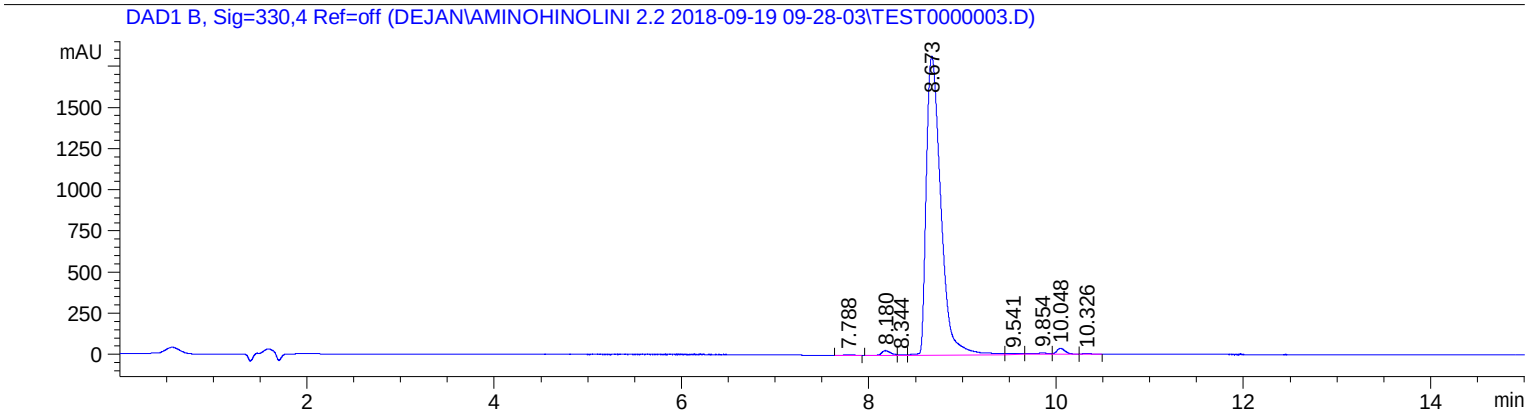

==========================================================================
                          *** End of Report ***
```

Data File C:\CHEM32\1\DATA\DEJAN\AMINOHINOLINI 2.2 2018-09-19 09-28-03\TEST0000003.D
Sample Name: DO251 Comp 19

Method A

S103

```
==========================================================================
Acq. Operator   : SYSTEM                          Seq. Line :   3
Acq. Instrument : HPLC-Solaja                      Location : Vial 16
Injection Date  : 9/19/2018 10:09:51 AM                 Inj :   1
                                                  Inj Volume : 3.000 µl
Acq. Method     : C:\CHEM32\1\DATA\DEJAN\AMINOHINOLINI 2.2 2018-09-19 09-28-03\METODA 7.M
Last changed    : 9/19/2018 9:39:06 AM by SYSTEM
Analysis Method : C:\CHEM32\1\DATA\DEJAN\AMINOHINOLINI 2.2 2018-09-19 09-28-03\METODA 7.M (
                  Sequence Method)
Last changed    : 9/19/2018 9:28:03 AM by SYSTEM
```




```
==========================================================================
                        Fraction Information
==========================================================================
==========================================================================
No Fractions found.
==========================================================================
==========================================================================
                        Area Percent Report
==========================================================================

Sorted By             :      Signal
Multiplier            :      1.0000
Dilution              :      1.0000
Use Multiplier & Dilution Factor with ISTDs


Signal 1: DAD1 B, Sig=330,4 Ref=off

Peak RetTime Type  Width     Area      Height     Area
  #   [min]       [min]   [mAU*s]     [mAU]       %
----|-------|----|-------|----------|----------|--------|
   1   7.788 BB    0.0936   37.69408    4.87983   0.1874
   2   8.180 BV    0.0980  186.21625   28.22647   0.9256
   3   8.344 VV    0.0718   23.70557    4.01936   0.1178
   4   8.673 VV    0.1461 1.94799e4  1816.18176  96.8310
   5   9.541 VV    0.1351   56.66377    5.04323   0.2817
   6   9.854 VV    0.1413   94.16600    7.86077   0.4681
   7  10.048 VB    0.0926  218.69849   35.40957   1.0871
   8  10.326 BB    0.0699   20.38461    3.47903   0.1013

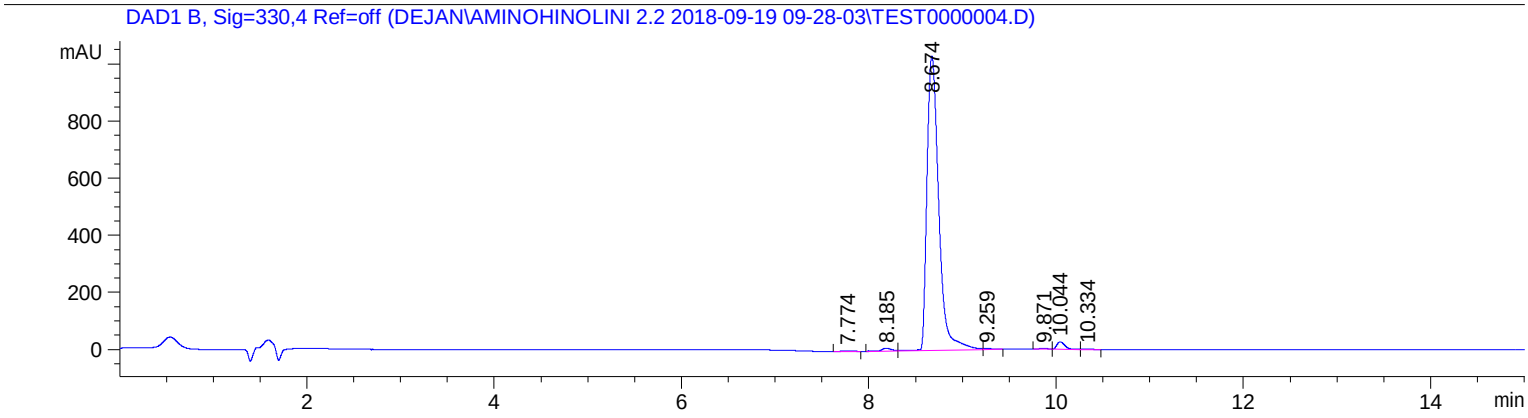
Totals :                  2.01175e4  1905.10003


==========================================================================
                        *** End of Report ***
```

Data File C:\CHEM32\1\DATA\DEJAN\AMINOHINOLINI 2.2 2018-09-19 09-28-03\TEST0000004.D
Sample Name: DO252 Comp 20

Method A


```
==========================================================================
Acq. Operator   : SYSTEM                        Seq. Line :   4
Acq. Instrument : HPLC-Solaja                    Location : Vial 17
Injection Date  : 9/19/2018 10:30:08 AM               Inj :   1
                                                Inj Volume : 3.000 µl
Acq. Method     : C:\CHEM32\1\DATA\DEJAN\AMINOHINOLINI 2.2 2018-09-19 09-28-03\METODA 7.M
Last changed    : 9/19/2018 9:39:06 AM by SYSTEM
Analysis Method : C:\CHEM32\1\DATA\DEJAN\AMINOHINOLINI 2.2 2018-09-19 09-28-03\METODA 7.M (
                  Sequence Method)
Last changed    : 9/19/2018 9:28:03 AM by SYSTEM
```




```
==========================================================================
                        Fraction Information
==========================================================================
==========================================================================
No Fractions found.
==========================================================================
==========================================================================
                       Area Percent Report
==========================================================================

Sorted By             :      Signal
Multiplier            :      1.0000
Dilution              :      1.0000
Use Multiplier & Dilution Factor with ISTDs

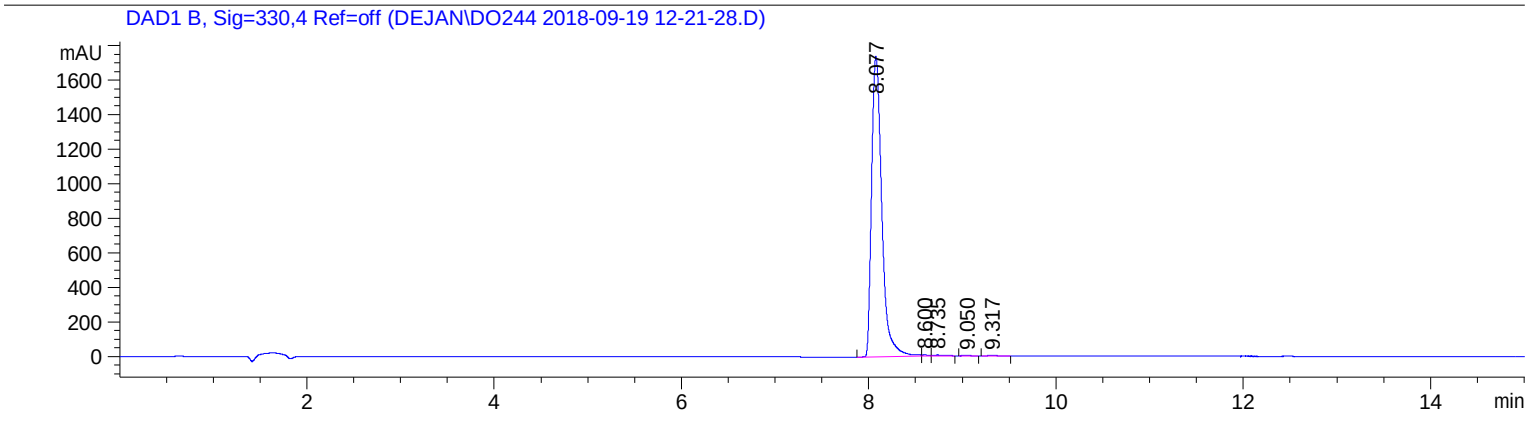

 Signal 1: DAD1 B, Sig=330,4 Ref=off

 Peak RetTime Type  Width     Area      Height     Area
   #   [min]        [min]   [mAU*s]     [mAU]       %
 ----|-------|----|-------|----------|----------|--------|
    1   7.774 BV    0.1003   22.84560    2.69757   0.2458
    2   8.185 BV    0.0869   68.65780    9.95726   0.7387
    3   8.674 VV    0.1362 8988.64258 1030.78503  96.7116
    4   9.259 VB    0.0854   22.52514    3.13107   0.2424
    5   9.871 VV    0.0917   23.83186    3.11746   0.2564
    6  10.044 VV    0.0890  156.54559   26.27228   1.6843
    7  10.334 VB    0.0745   11.22762    1.79357   0.1208

 Totals :                  9294.27620 1077.75424


==========================================================================
                        *** End of Report ***
```

```
==========================================================================
Acq. Operator   : SYSTEM
Acq. Instrument : HPLC-Solaja                    Location : Vial 11
Injection Date  : 9/19/2018 12:22:38 PM
                                                 Inj Volume : 2.000 µl
Acq. Method     : C:\CHEM32\1\METHODS\METODA 7.M
Last changed    : 9/19/2018 12:21:15 PM by SYSTEM
                  (modified after loading)
Analysis Method : C:\CHEM32\1\METHODS\METODA 7.M
Last changed    : 9/19/2018 12:10:18 PM by SYSTEM
Sample Info     : ACN/HCOOH
                  Zorbax Eclipse, 2.1 x 100 mm
```




```
==========================================================================================
                            Fraction Information
==========================================================================================
==========================================================================================
No Fractions found.
==========================================================================================
==========================================================================
                         Area Percent Report
==========================================================================

Sorted By             :      Signal
Multiplier            :      1.0000
Dilution              :      1.0000
Use Multiplier & Dilution Factor with ISTDs


Signal 1: DAD1 B, Sig=330,4 Ref=off

Peak RetTime Type  Width     Area      Height     Area
  #   [min]        [min]   [mAU*s]     [mAU]       %
----|-------|----|-------|----------|----------|--------|
   1   8.077 BV    0.1177 1.32337e4  1739.70313  98.9624
   2   8.600 VV    0.0678   38.92258    6.90085   0.2911
   3   8.735 VB    0.1105   51.45962    5.56047   0.3848
   4   9.050 VB    0.0852   15.50555    2.17536   0.1160
   5   9.317 BV    0.0851   32.86078    4.64154   0.2457

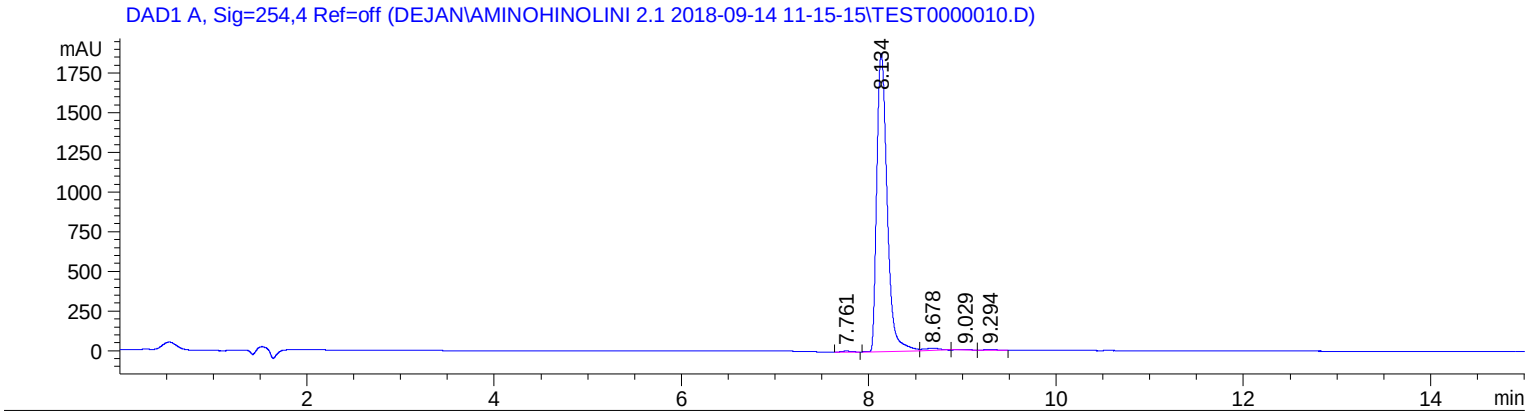
Totals :                  1.33725e4  1758.98135


==========================================================================
                         *** End of Report ***
```

Data File C:\CHEM32\1\DATA\DEJAN\AMINOHINOLINI 2.1 2018-09-14 11-15-15\TEST0000010.D
Sample Name: DO243 Comp 22

Method A


```
==========================================================================
Acq. Operator   : SYSTEM                        Seq. Line :  10
Acq. Instrument : HPLC-Solaja                    Location : Vial 40
Injection Date  : 9/14/2018 1:56:38 PM                Inj :   1
                                               Inj Volume : 1.000 µl
Acq. Method     : C:\CHEM32\1\DATA\DEJAN\AMINOHINOLINI 2.1 2018-09-14 11-15-15\METODA 7.M
Last changed    : 9/14/2018 12:42:19 PM by SYSTEM
Analysis Method : C:\CHEM32\1\DATA\DEJAN\AMINOHINOLINI 2.1 2018-09-14 11-15-15\METODA 7.M (
                  Sequence Method)
Last changed    : 9/14/2018 11:15:15 AM by SYSTEM
```




```
==========================================================================
                          Fraction Information
==========================================================================
==========================================================================
No Fractions found.
==========================================================================
==========================================================================
                        Area Percent Report
==========================================================================

Sorted By             :      Signal
Multiplier            :      1.0000
Dilution              :      1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=off
```

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	7.761	BB	0.0865	38.49284	5.83214	0.2619
2	8.134	BV	0.1202	1.44434e4	1879.03308	98.2674
3	8.678	VB	0.1422	152.32616	12.67865	1.0364
4	9.029	BB	0.0884	27.02403	3.73439	0.1839
5	9.294	BB	0.0942	36.81614	4.78811	0.2505
Totals :				1.46981e4	1906.06637	

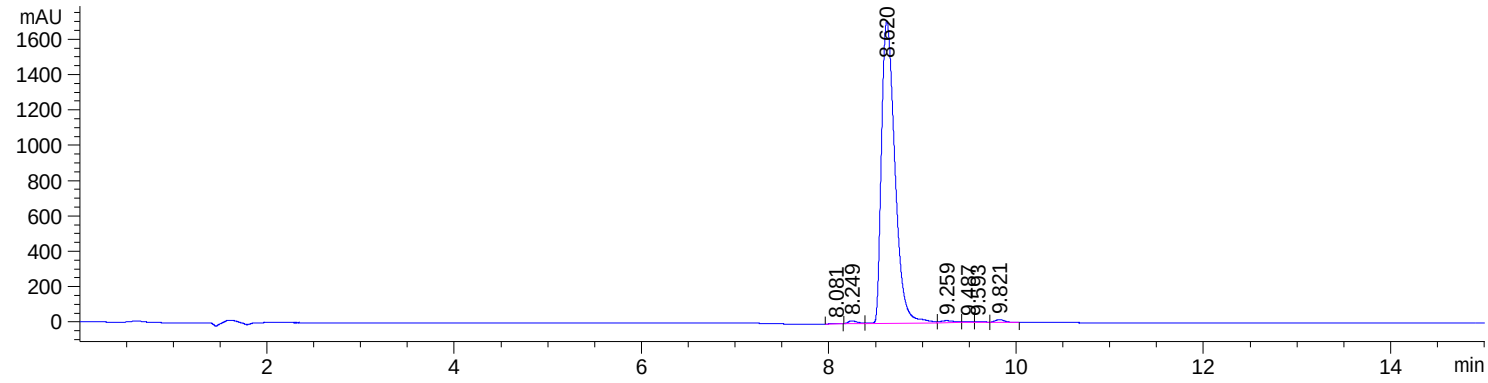
```
==========================================================================
                        *** End of Report ***
```

Data File C:\CHEM32\1\DATA\DEJAN\AMINOHINOLINI 2.2 2018-11-01 10-14-45\TEST0000003.D
Sample Name: DO245 Comp 23

Method A


```
==========================================================================
Acq. Operator   : SYSTEM                        Seq. Line :   3
Acq. Instrument : HPLC-Solaja                    Location : Vial 87
Injection Date  : 11/1/2018 10:58:23 AM               Inj :   1
                                                Inj Volume : 1.000 µl
Method          : C:\CHEM32\1\DATA\DEJAN\AMINOHINOLINI 2.2 2018-11-01 10-14-45\METODA 7.M (
                  Sequence Method)
Last changed    : 11/1/2018 10:14:46 AM by SYSTEM
```

DAD1 B, Sig=330,4 Ref=off (DEJAN\AMINOHINOLINI 2.2 2018-11-01 10-14-45\TEST0000003.D)




```
==========================================================================
                        Fraction Information
==========================================================================
==========================================================================
No Fractions found.
==========================================================================
==========================================================================
                        Area Percent Report
==========================================================================

Sorted By             :      Signal
Multiplier            :      1.0000
Dilution              :      1.0000
Use Multiplier & Dilution Factor with ISTDs

 Signal 1: DAD1 B, Sig=330,4 Ref=off

 Peak RetTime Type  Width     Area      Height     Area
   #   [min]        [min]   [mAU*s]     [mAU]       %
 ----|-------|----|-------|----------|----------|--------|
    1   8.081 BB    0.0645   11.88637    2.25615   0.0683
    2   8.249 BV    0.0991   97.44776   14.64388   0.5598
    3   8.620 VV    0.1532 1.70399e4  1710.67590  97.8839
    4   9.259 VV    0.1212  109.91783   11.03735   0.6314
    5   9.487 VV    0.0914   27.99183    3.63286   0.1608
    6   9.593 VB    0.0799   19.45705    2.89421   0.1118
    7   9.821 BB    0.0942  101.66861   15.78323   0.5840

 Totals :                  1.74082e4  1760.92358

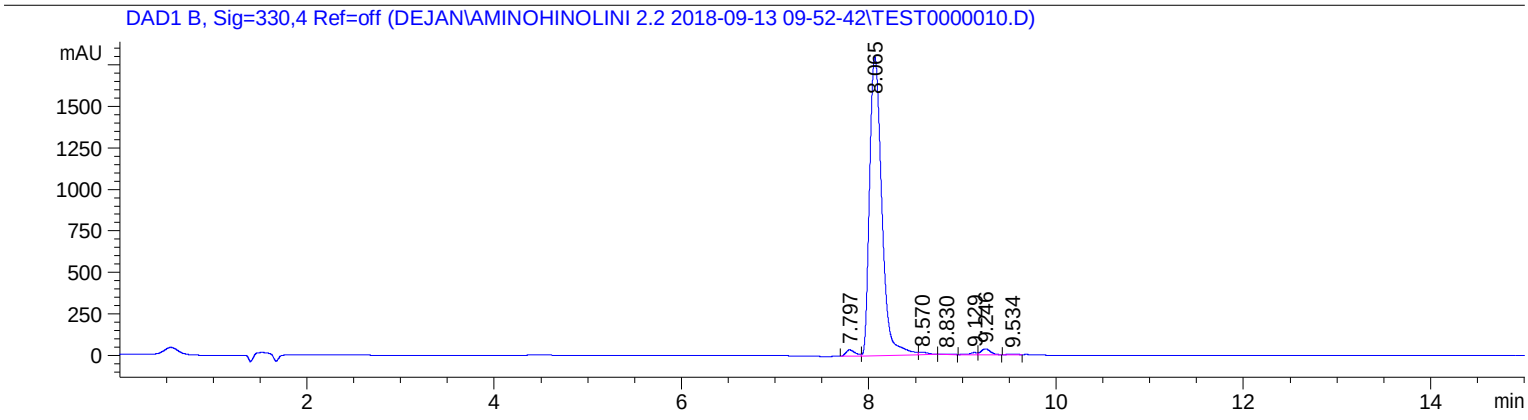
 ==========================================================================
                        *** End of Report ***
```

Data File C:\CHEM32\1\DATA\DEJAN\AMINOHINOLINI 2.2 2018-09-13 09-52-42\TEST0000010.D
Sample Name: DO255 Comp 24

Method A

S108

```
==========================================================================
Acq. Operator   : SYSTEM                          Seq. Line :  10
Acq. Instrument : HPLC-Solaja                      Location : Vial 20
Injection Date  : 9/13/2018 12:56:12 PM                 Inj :   1
                                                  Inj Volume : 2.000 µl
Acq. Method     : C:\CHEM32\1\DATA\DEJAN\AMINOHINOLINI 2.2 2018-09-13 09-52-42\METODA 7.M
Last changed    : 9/13/2018 12:29:05 PM by SYSTEM
Analysis Method : C:\CHEM32\1\DATA\DEJAN\AMINOHINOLINI 2.2 2018-09-13 09-52-42\METODA 7.M (
                  Sequence Method)
Last changed    : 9/13/2018 9:52:43 AM by SYSTEM
```




```
==========================================================================================

                              Fraction Information
==========================================================================================
==========================================================================================
No Fractions found.
==========================================================================================
==========================================================================
                           Area Percent Report
==========================================================================

Sorted By             :      Signal
Multiplier            :      1.0000
Dilution              :      1.0000
Use Multiplier & Dilution Factor with ISTDs

 Signal 1: DAD1 B, Sig=330,4 Ref=off

 Peak RetTime Type  Width     Area      Height     Area
   #   [min]        [min]   [mAU*s]     [mAU]       %
 ----|-------|----|-------|----------|----------|--------|
    1   7.797 BV    0.1018  254.67763   37.44538   1.4944
    2   8.065 VV    0.1414 1.63278e4  1799.18579  95.8079
    3   8.570 VB    0.0834  100.54272   14.97073   0.5900
    4   8.830 BB    0.0674   17.72667    3.18605   0.1040
    5   9.129 BV    0.0757   62.60477   12.33434   0.3674
    6   9.246 VB    0.1039  238.60225   35.04844   1.4001
    7   9.534 BV    0.0848   40.26586    5.73983   0.2363

 Totals :                  1.70422e4  1907.91056

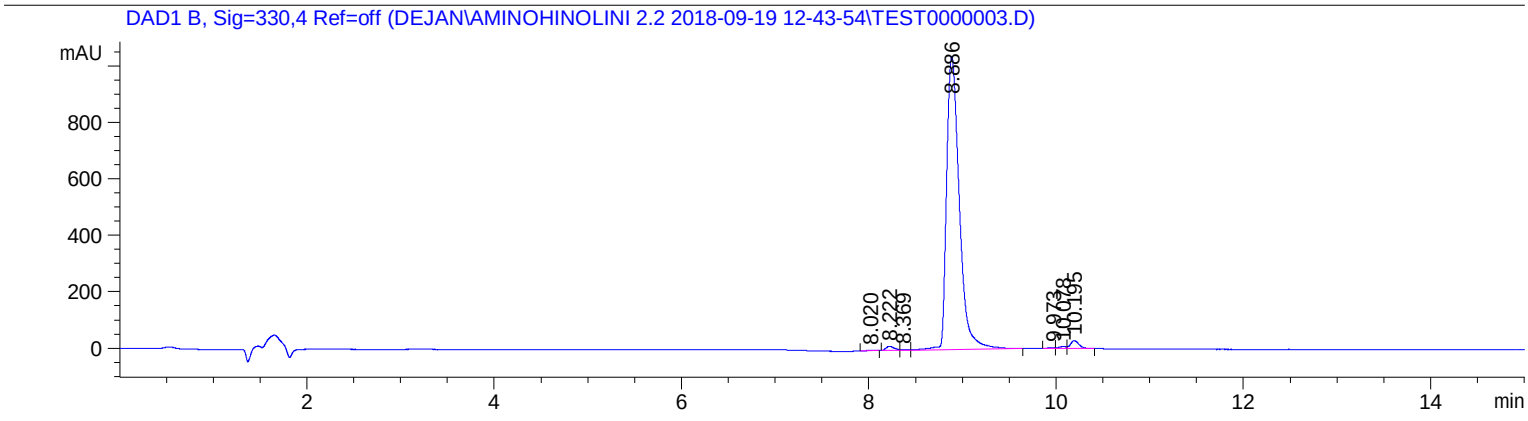

 ==========================================================================
                           *** End of Report ***
```

Data File C:\CHEM32\1\DATA\DEJAN\AMINOHINOLINI 2.2 2018-09-19 12-43-54\TEST0000003.D
Sample Name: DO267 Comp 25

Method A

S109

```
==========================================================================
Acq. Operator   : SYSTEM                        Seq. Line :   3
Acq. Instrument : HPLC-Solaja                    Location : Vial 23
Injection Date  : 9/19/2018 1:27:41 PM                Inj :   1
                                               Inj Volume : 5.000 µl
Method          : C:\CHEM32\1\DATA\DEJAN\AMINOHINOLINI 2.2 2018-09-19 12-43-54\METODA 7.M (
                  Sequence Method)
Last changed    : 9/19/2018 12:43:54 PM by SYSTEM
```




```
==========================================================================
                        Fraction Information
==========================================================================
==========================================================================
No Fractions found.
==========================================================================
==========================================================================
                       Area Percent Report
==========================================================================

Sorted By             :      Signal
Multiplier            :      1.0000
Dilution              :      1.0000
Use Multiplier & Dilution Factor with ISTDs


Signal 1: DAD1 B, Sig=330,4 Ref=off

Peak RetTime Type  Width     Area      Height     Area
  #   [min]        [min]   [mAU*s]     [mAU]       %
----|-------|----|-------|----------|----------|--------|
   1   8.020 BB    0.0673   12.82477    2.27275   0.1262
   2   8.222 BV    0.0854   89.90894   14.68187   0.8851
   3   8.369 VV    0.0662   14.64030    2.63797   0.1441
   4   8.886 VV    0.1469 9815.96484 1037.51270  96.6293
   5   9.973 BV    0.0510   11.83932    2.82154   0.1165
   6  10.078 VV    0.0731   37.42641    6.60169   0.3684
   7  10.195 VB    0.0945  175.76964   27.89677   1.7303

Totals :                  1.01584e4  1094.42528

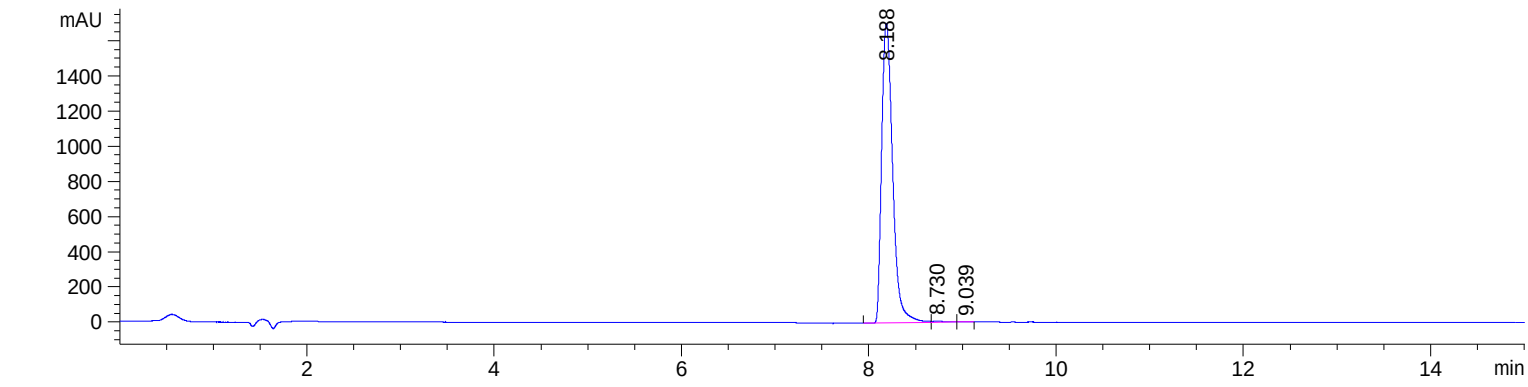

==========================================================================
                        *** End of Report ***
```

Data File C:\CHEM32\1\DATA\DEJAN\AMINOHINOLINI 2.1 2018-09-18 12-02-19\TEST0000003.D
Sample Name: DO237 Comp 26

Method A

S110

```
==========================================================================
Acq. Operator   : SYSTEM                        Seq. Line :   3
Acq. Instrument : HPLC-Solaja                    Location : Vial 36
Injection Date  : 9/18/2018 12:44:09 PM               Inj :   1
                                               Inj Volume : 1.000 µl
Method          : C:\CHEM32\1\DATA\DEJAN\AMINOHINOLINI 2.1 2018-09-18 12-02-19\METODA 7.M (
                  Sequence Method)
Last changed    : 9/18/2018 12:02:19 PM by SYSTEM
```




```
==========================================================================================
                            Fraction Information
==========================================================================================
==========================================================================================
No Fractions found.
==========================================================================================
==========================================================================
                          Area Percent Report
==========================================================================

Sorted By             :      Signal
Multiplier            :      1.0000
Dilution              :      1.0000
Use Multiplier & Dilution Factor with ISTDs


Signal 1: DAD1 B, Sig=330,4 Ref=off

Peak RetTime Type  Width     Area      Height     Area
  #   [min]        [min]   [mAU*s]     [mAU]       %
----|-------|----|-------|----------|----------|--------|
   1   8.188 BV    0.1284 1.39175e4  1701.44299  99.5824
   2   8.730 VB    0.0941   45.38796    5.88033   0.3248
   3   9.039 BB    0.0665   12.98021    2.32826   0.0929

Totals :                  1.39759e4  1709.65157

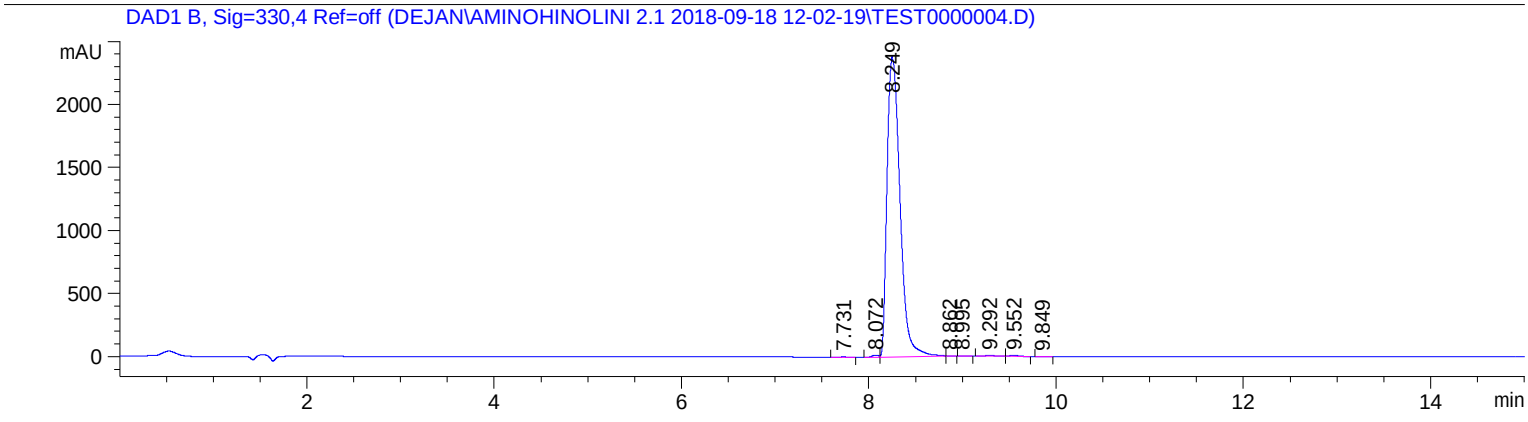

==========================================================================
                          *** End of Report ***
```

Data File C:\CHEM32\1\DATA\DEJAN\AMINOHINOLINI 2.1 2018-09-18 12-02-19\TEST0000004.D
Sample Name: DO240 Comp 27

Method A

S111

```
==========================================================================
Acq. Operator   : SYSTEM                        Seq. Line :   4
Acq. Instrument : HPLC-Solaja                    Location : Vial 37
Injection Date  : 9/18/2018 1:04:26 PM                Inj :   1
                                               Inj Volume : 1.000 µl
Method          : C:\CHEM32\1\DATA\DEJAN\AMINOHINOLINI 2.1 2018-09-18 12-02-19\METODA 7.M (
                  Sequence Method)
Last changed    : 9/18/2018 12:02:19 PM by SYSTEM
```




```
==========================================================================
                        Fraction Information
==========================================================================
==========================================================================
No Fractions found.
==========================================================================
==========================================================================
                       Area Percent Report
==========================================================================

Sorted By             :      Signal
Multiplier            :      1.0000
Dilution              :      1.0000
Use Multiplier & Dilution Factor with ISTDs


Signal 1: DAD1 B, Sig=330,4 Ref=off

Peak RetTime Type  Width     Area      Height     Area
  #   [min]        [min]   [mAU*s]     [mAU]       %
----|-------|----|-------|----------|----------|--------|
   1   7.731 BB    0.0835   27.50034    3.98351   0.1195
   2   8.072 BV    0.0800   70.57166   14.20481   0.3066
   3   8.249 VV    0.1129 2.27888e4  2386.55908  99.0080
   4   8.862 VB    0.0520    5.78397    1.33729   0.0251
   5   8.995 BB    0.0823    6.89957    1.00868   0.0300
   6   9.292 BV    0.1034   53.98901    6.27296   0.2346
   7   9.552 VB    0.0983   56.31666    7.88871   0.2447
   8   9.849 BV    0.0614    7.26376    1.41503   0.0316

Totals :                  2.30172e4  2422.67008

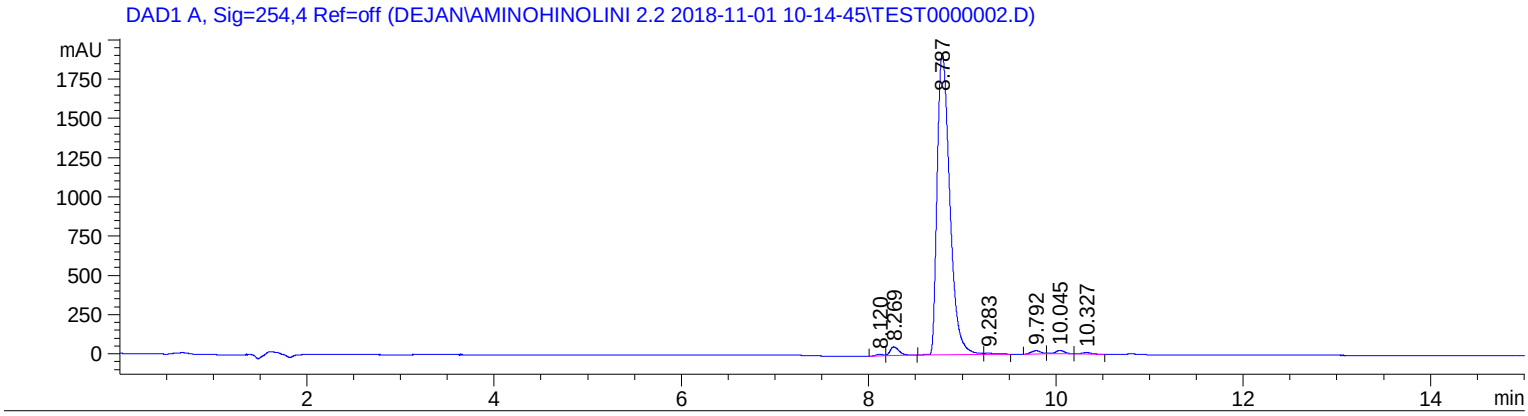

==========================================================================
                        *** End of Report ***
```

Data File C:\CHEM32\1\DATA\DEJAN\AMINOHINOLINI 2.2 2018-11-01 10-14-45\TEST0000002.D
Sample Name: DO241 Comp 28

Method A

S112

```
==========================================================================
Acq. Operator   : SYSTEM                        Seq. Line :   2
Acq. Instrument : HPLC-Solaja                    Location : Vial 86
Injection Date  : 11/1/2018 10:37:10 AM               Inj :   1
                                               Inj Volume : 1.000 µl
Method          : C:\CHEM32\1\DATA\DEJAN\AMINOHINOLINI 2.2 2018-11-01 10-14-45\METODA 7.M (
                  Sequence Method)
Last changed    : 11/1/2018 10:14:46 AM by SYSTEM
```




```
==========================================================================
                        Fraction Information
==========================================================================
==========================================================================
No Fractions found.
==========================================================================
==========================================================================
                       Area Percent Report
==========================================================================

Sorted By             :      Signal
Multiplier            :      1.0000
Dilution              :      1.0000
Use Multiplier & Dilution Factor with ISTDs


Signal 1: DAD1 A, Sig=254,4 Ref=off

Peak RetTime Type  Width     Area      Height     Area
  #   [min]        [min]   [mAU*s]     [mAU]       %
----|-------|----|-------|----------|----------|--------|
   1   8.120 BV    0.0747   65.63834   11.30609   0.3481
   2   8.269 VB    0.1046  382.21692   56.00931   2.0271
   3   8.787 BV    0.1477 1.79719e4  1919.28955  95.3132
   4   9.283 VB    0.1055   57.98520    6.56554   0.3075
   5   9.792 BV    0.1116  153.99232   21.35320   0.8167
   6  10.045 VB    0.1077  158.98773   21.89713   0.8432
   7  10.327 BB    0.0941   64.91326    9.51801   0.3443

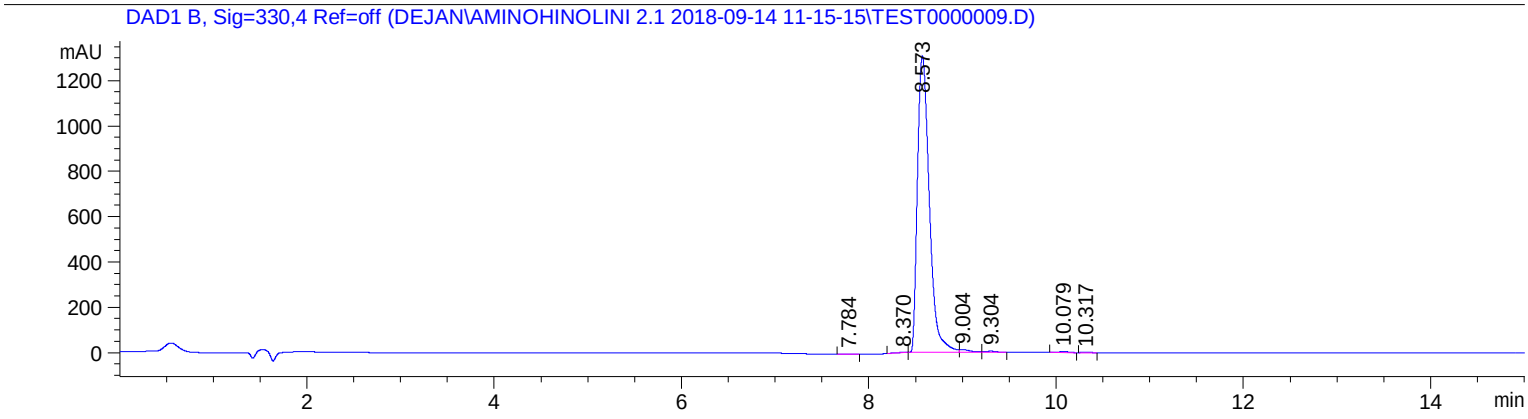
    Totals :                1.88556e4  2045.93883

==========================================================================
                        *** End of Report ***
```

Data File C:\CHEM32\1\DATA\DEJAN\AMINOHINOLINI 2.1 2018-09-14 11-15-15\TEST0000009.D
Sample Name: DO242 Comp 29

Method A


```
==========================================================================
Acq. Operator   : SYSTEM                          Seq. Line :   9
Acq. Instrument : HPLC-Solaja                     Location : Vial 39
Injection Date  : 9/14/2018 1:36:22 PM                 Inj :   1
                                                  Inj Volume : 1.000 µl
Acq. Method     : C:\CHEM32\1\DATA\DEJAN\AMINOHINOLINI 2.1 2018-09-14 11-15-15\METODA 7.M
Last changed    : 9/14/2018 12:42:19 PM by SYSTEM
Analysis Method : C:\CHEM32\1\DATA\DEJAN\AMINOHINOLINI 2.1 2018-09-14 11-15-15\METODA 7.M (
                  Sequence Method)
Last changed    : 9/14/2018 11:15:15 AM by SYSTEM
```




```
==========================================================================================
                            Fraction Information
==========================================================================================
==========================================================================================
No Fractions found.
==========================================================================================
==========================================================================
                          Area Percent Report
==========================================================================

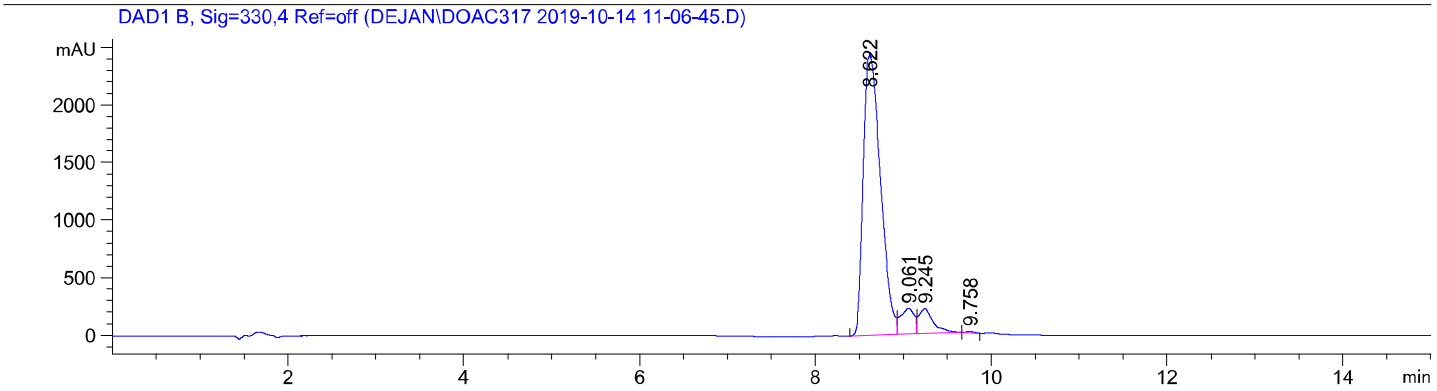
 Signal 1: DAD1 B, Sig=330,4 Ref=off

 Peak RetTime Type  Width     Area      Height     Area
   #   [min]        [min]   [mAU*s]     [mAU]       %
 ----|-------|----|-------|----------|----------|--------|
    1   7.784 BB    0.0808    9.77488    1.44777   0.0835
    2   8.370 BB    0.0686   11.82697    2.05563   0.1010
    3   8.573 BV    0.1383 1.15220e4  1306.99170  98.4099
    4   9.004 VV    0.1007   92.43963   11.51443   0.7895
    5   9.304 VB    0.0866   33.28693    4.56437   0.2843
    6  10.079 BB    0.0849   29.65312    4.27476   0.2533
    7  10.317 BV    0.0668    9.19181    1.64240   0.0785

 Totals :                  1.17082e4  1332.49105


 ===================================================================
                          *** End of Report ***
```

```
==========================================================================
Acq. Operator    : SYSTEM
Acq. Instrument : HPLC-Solaja                    Location : Vial 23
Injection Date   : 10/14/2019 11:07:58 AM
                                                 Inj Volume : 2.000 µl
Acq. Method      : C:\CHEM32\1\METHODS\METODA 7.M
Last changed     : 10/14/2019 11:05:30 AM by SYSTEM
                   (modified after loading)
Analysis Method : C:\CHEM32\1\METHODS\MELITIN GRADIJENTNO 01.M
Last changed     : 10/10/2019 11:44:21 AM by SYSTEM
Additional Info : Peak s  manuall  inte rated
```




```
==========================================================================================
                          Fraction Information
==========================================================================================
==========================================================================================
No Fractions found.
==========================================================================================
==========================================================================
                        Area Percent Report
==========================================================================

Sorted By             :      Signal
Calib. Data Modified  :      9/11/2019 12:39:08 PM
Multiplier            :      1.0000
Dilution              :      1.0000
Sample Amount:                :      1.00000  [ng/ul]   (not used in calc.)
Use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 B, Sig=330,4 Ref=off

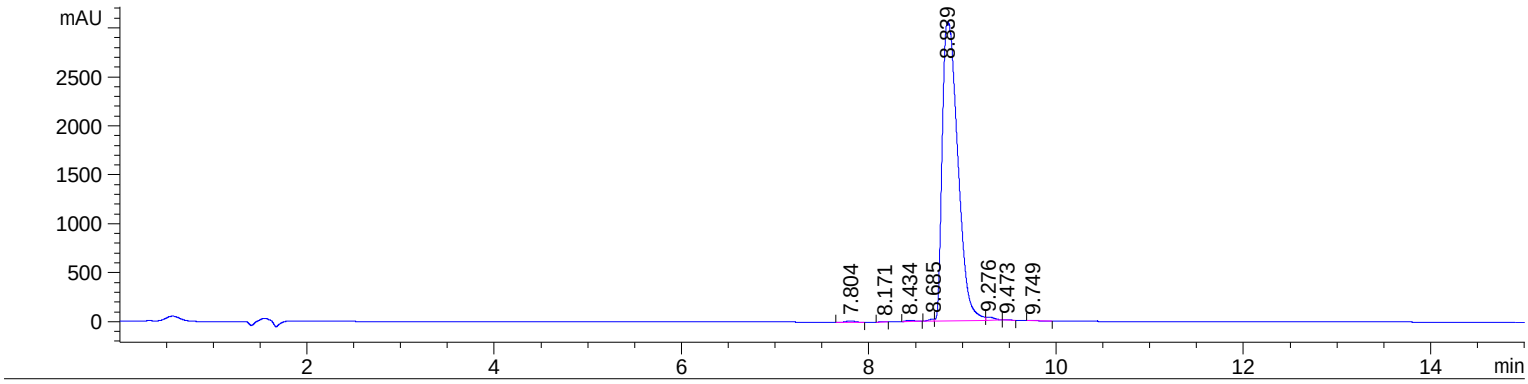
Peak RetTime  Type   Width     Area      Area    Name
  #   [min]          [min]   [mAU*s]       %
----|-------|------|-------|----------|--------|--------------------
   1   8.622 BV      0.1596 3.32301e4   86.9903 ?
   2   9.061 VV      0.1557 2447.45898   6.4070 ?
   3   9.245 VB      0.1665 2472.28174   6.4720 ?
   4   9.758 BB      0.0758   49.95188   0.1308 ?

Totals :                   3.81998e4

==========================================================================
                        *** End of Report ***
```

Acq. Operator : SYSTEM Seq. Line : 2
Acq. Instrument : HPLC-Solaja Location : Vial 34
Injection Date : 9/18/2018 11:31:58 AM Inj : 1
Inj Volume : 2.000 µl
Method : C:\CHEM32\1\DATA\DEJAN\AMINOHINOLINI 2.1 2018-09-18 11-10-29\METODA 7.M (Sequence Method)
Last changed : 9/18/2018 11:10:29 AM by SYSTEM

DAD1 A, Sig=254,4 Ref=off (DEJAN\AMINOHINOLINI 2.1 2018-09-18 11-10-29\TEST0000002.D)



Fraction Information

No Fractions found.

Area Percent Report

Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=off

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	7.804	BB	0.1087	109.61250	14.83106	0.3069
2	8.171	BV	0.0649	13.66223	2.82653	0.0382
3	8.434	BB	0.0874	70.72806	12.23815	0.1980
4	8.685	BV	0.0653	70.15119	17.28596	0.1964
5	8.839	VV	0.1361	3.52423e4	3054.83545	98.6589
6	9.276	VB	0.0879	186.80699	32.10149	0.5230
7	9.473	BB	0.0653	13.77741	3.19792	0.0386
8	9.749	BB	0.0735	14.33096	2.44131	0.0401
Totals :				3.57214e4	3139.75787	

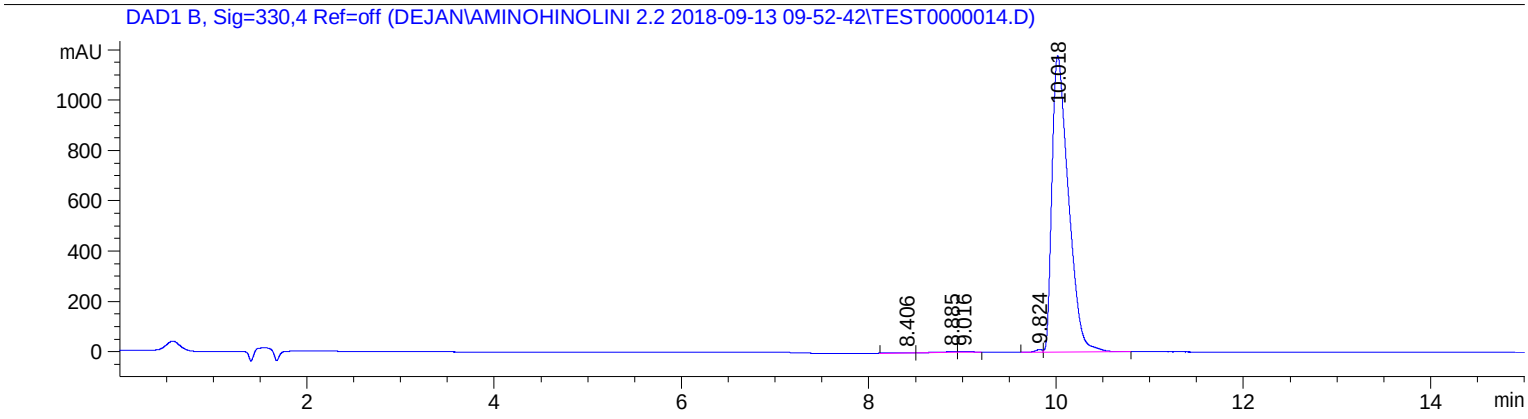
*** End of Report ***

Data File C:\CHEM32\1\DATA\DEJAN\AMINOHINOLINI 2.2 2018-09-13 09-52-42\TEST0000014.D
Sample Name: DO273 Comp 6

Method A

S116

```
==========================================================================
Acq. Operator   : SYSTEM                          Seq. Line :  14
                                                   Location : Vial 24
Injection Date  : 9/13/2018 2:17:06 PM                 Inj :   1
Acq. Method     : METODA 7.M
Analysis Method : C:\CHEM32\1\DATA\DEJAN\AMINOHINOLINI 2.2 2018-09-13 09-52-42\METODA 7.M (
                  Sequence Method)
Last changed    : 9/13/2018 9:52:43 AM by SYSTEM
```




```
==========================================================================
                          Fraction Information
==========================================================================
==========================================================================
No Fractions found.
==========================================================================
==========================================================================
                        Area Percent Report
==========================================================================

Sorted By             :      Signal
Multiplier            :      1.0000
Dilution              :      1.0000
Use Multiplier & Dilution Factor with ISTDs

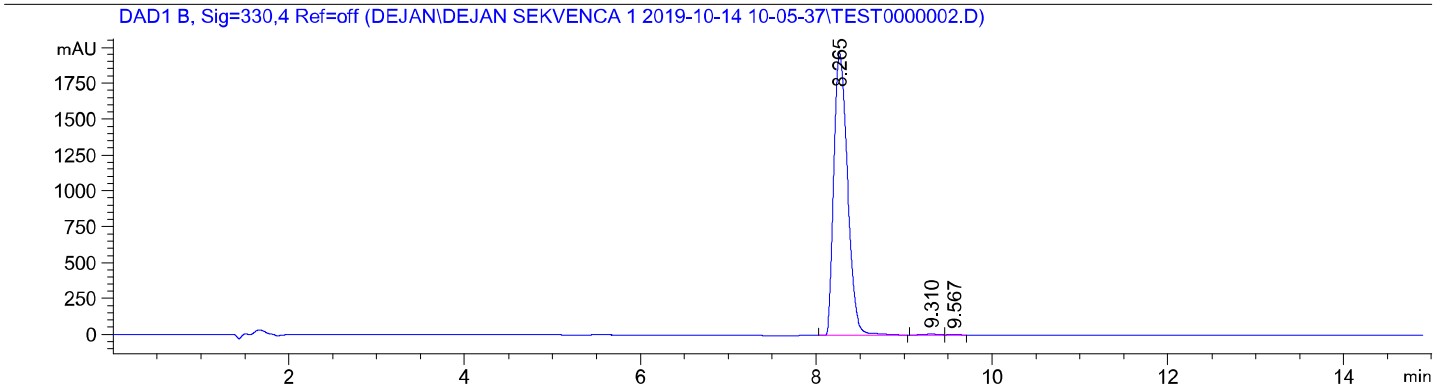

Signal 1: DAD1 B, Sig=330,4 Ref=off

Peak RetTime Type  Width     Area      Height     Area
  #   [min]        [min]   [mAU*s]     [mAU]       %
----|-------|----|-------|----------|----------|--------|
   1   8.406 VV    0.1856   19.07473    1.21901   0.1317
   2   8.885 VV    0.1297   43.04902    3.94743   0.2972
   3   9.016 VB    0.1050   31.17934    3.56711   0.2153
   4   9.824 BV    0.0642   46.27005    9.35432   0.3195
   5  10.018 VV    0.1759 1.43441e4  1175.58313  99.0363

Totals :                  1.44837e4  1193.67101


==========================================================================
                          *** End of Report ***
```

```
==================================================================
Acq. Operator    : SYSTEM                        Seq. Line :   2
Acq. Instrument : HPLC-Solaja                     Location : Vial 24
Injection Date   : 10/14/2019 10:38:08 AM              Inj :   1
                                                 Inj Volume : 2.000 µl
Method           : C:\CHEM32\1\DATA\DEJAN\DEJAN SEKVENCA 1 2019-10-14 10-05-37\METODA 7.M (
                   Sequence Method)
Last changed     : 10/14/2019 10:05:37 AM by SYSTEM
```




```
================================================================================
                          Fraction Information
================================================================================
================================================================================
No Fractions found.
================================================================================
======================================================================
                        Area Percent Report
======================================================================

Sorted By             :      Signal
Multiplier            :      1.0000
Dilution              :      1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 B, Sig=330,4 Ref=off

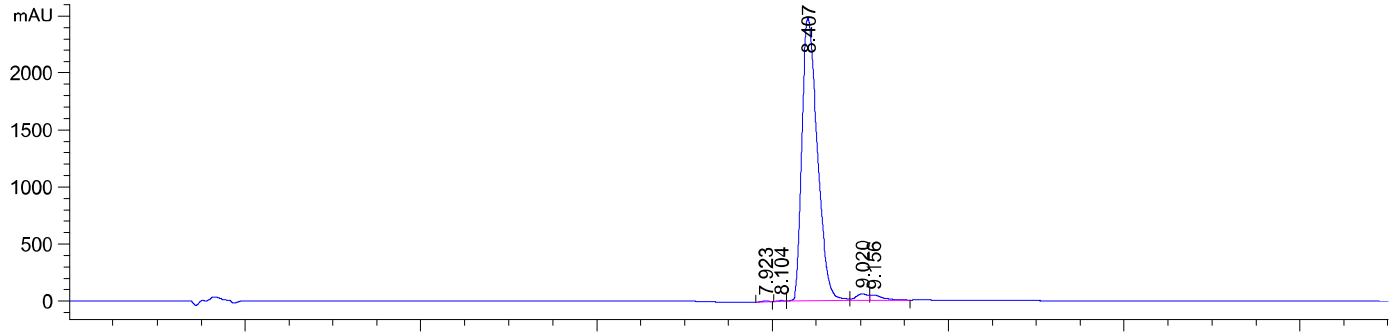
Peak RetTime Type  Width     Area      Height     Area
  #   [min]        [min]   [mAU*s]     [mAU]       %
----|-------|----|-------|----------|----------|--------|
   1   8.265 VV    0.1448 2.15210e4  1971.80176  99.4474
   2   9.310 VV    0.1486  101.08301    8.09986   0.4671
   3   9.567 VB    0.1117   18.50859    1.94978   0.0855

Totals :                  2.16406e4  1981.85140


======================================================================
                        *** End of Report ***
```

```
==========================================================================
Acq. Operator   : SYSTEM                          Seq. Line :   2
Acq. Instrument : HPLC-Solaja                     Location : Vial 22
Injection Date  : 10/11/2019 1:53:36 PM               Inj :   1
                                                Inj Volume : 2.000 µl
Method          : C:\CHEM32\1\DATA\DEJAN\DEJAN SEKVENCA 1 2019-10-11 13-21-10\METODA 7.M (
                  Sequence Method)
Last changed    : 10/11/2019 1:21:10 PM by SYSTEM
Additional Info : Peak(s) manually integrated
```

DAD1 A, Sig=254,4 Ref=off (DEJAN\DEJAN SEKVENCA 1 2019-10-11 13-21-10\TEST0000002.D)




```
==========================================================================
                          Fraction Information
==========================================================================
==========================================================================
No Fractions found.
==========================================================================
==========================================================================
                        Area Percent Report
==========================================================================

Sorted By             :      Signal
Multiplier            :      1.0000
Dilution              :      1.0000
Use Multiplier & Dilution Factor with ISTDs

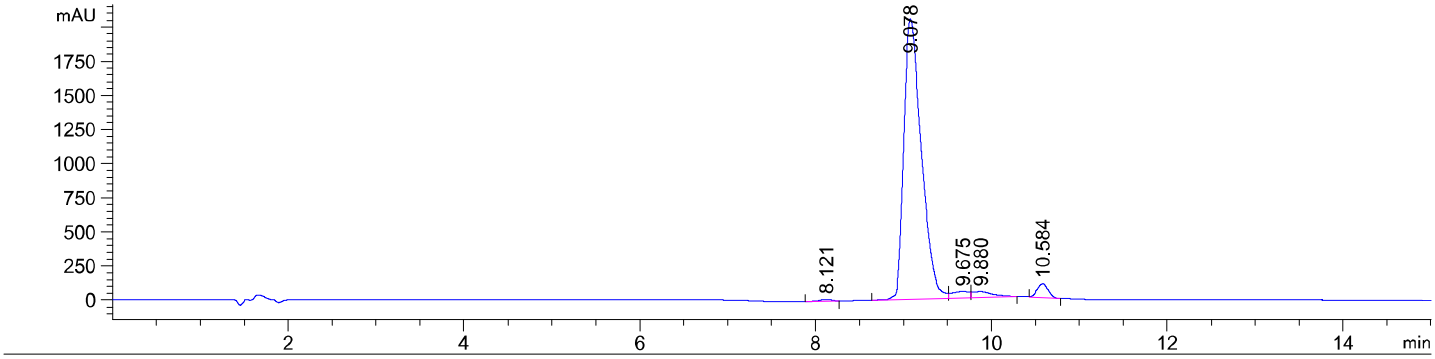

Signal 1: DAD1 A, Sig=254,4 Ref=off
```

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	7.923	BB	0.0792	35.20185	6.11420	0.1115
2	8.104	BB	0.0661	22.07971	4.54748	0.0699
3	8.407	BV	0.1448	3.03890e4	2474.10645	96.2613
4	9.020	VV	0.1361	583.24976	60.41982	1.8475
5	9.156	VB	0.1447	539.73578	48.53238	1.7097
Totals :				3.15692e4	2593.72032	

```
==========================================================================
                        *** End of Report ***
```

```
==========================================================================
Acq. Operator    : SYSTEM                          Seq. Line :   1
Acq. Instrument : HPLC-Solaja                       Location : Vial 21
Injection Date   : 10/11/2019 1:22:25 PM                 Inj :   1
                                                  Inj Volume : 2.000 µl
Method           : C:\CHEM32\1\DATA\DEJAN\DEJAN SEKVENCA 1 2019-10-11 13-21-10\METODA 7.M (
                   Sequence Method)
Last changed     : 10/11/2019 1:21:10 PM by SYSTEM
Additional Info : Peak(s) manually integrated
```

DAD1 A, Sig=254,4 Ref=off (DEJAN\DEJAN SEKVENCA 1 2019-10-11 13-21-10\TEST0000001.D)




```
==========================================================================================
                              Fraction Information
==========================================================================================
==========================================================================================
No Fractions found.
==========================================================================================
==========================================================================
                           Area Percent Report
==========================================================================

Sorted By             :      Signal
Multiplier            :      1.0000
Dilution              :      1.0000
Use Multiplier & Dilution Factor with ISTDs


Signal 1: DAD1 A, Sig=254,4 Ref=off

Peak RetTime Type  Width     Area      Height     Area
  #   [min]        [min]   [mAU*s]     [mAU]       %
----|-------|----|-------|----------|----------|--------|
   1   8.121 BV    0.1087  112.65643   14.98136   0.3640
   2   9.078 BV    0.1701 2.86658e4  2056.35376  92.6277
   3   9.675 VV    0.1692  645.22137   45.16157   2.0849
   4   9.880 VB    0.1905  654.73969   40.84812   2.1157
   5  10.584 VB    0.1380  868.90265  100.39756   2.8077

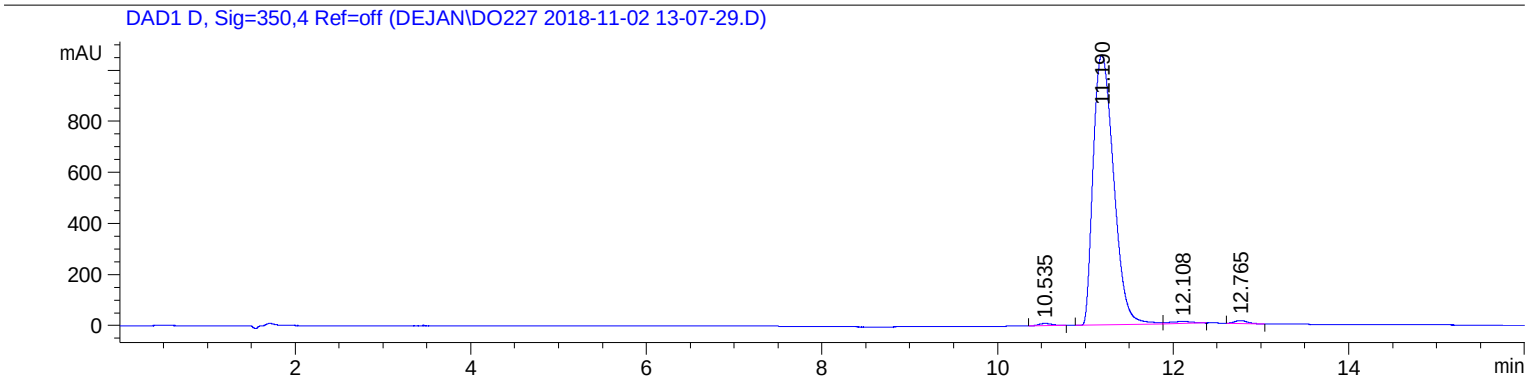
Totals :                  3.09473e4  2257.74237


==========================================================================
                          *** End of Report ***
```

Data File C:\CHEM32\1\DATA\DEJAN\DO227 2018-11-02 13-07-29.D
Sample Name: DO227 Comp 7

Method B S120

```
==========================================================================
Acq. Operator   : SYSTEM
Acq. Instrument : HPLC-Solaja                    Location : Vial 87
Injection Date  : 11/2/2018 1:08:41 PM
                                                 Inj Volume : 1.200 µl
Acq. Method     : C:\CHEM32\1\METHODS\METODA 49.M
Last changed    : 11/2/2018 1:07:18 PM by SYSTEM
                  (modified after loading)
Analysis Method : C:\CHEM32\1\METHODS\METODA 7.M
Last changed    : 11/1/2018 1:02:44 PM by SYSTEM
Sample Info     : MeOH/HCOOH
                  Zorbax Eclipse, 2.1 x 100 mm
```




```
==========================================================================================
                            Fraction Information
==========================================================================================
==========================================================================================
=========================================================================
                         Area Percent Report
=========================================================================

Sorted By             :      Signal
Multiplier            :      1.0000
Dilution              :      1.0000
Use Multiplier & Dilution Factor with ISTDs

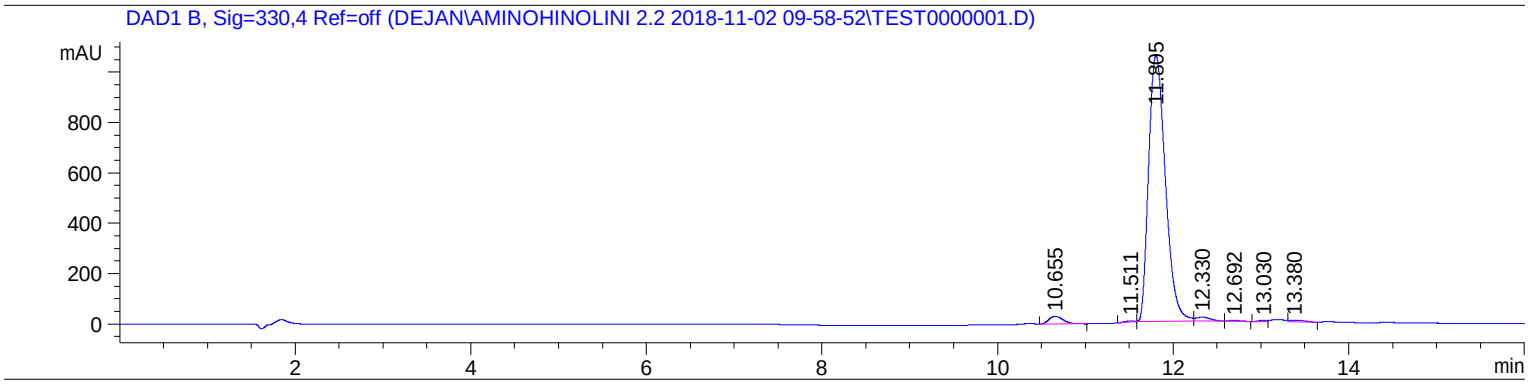

   Signal 1: DAD1 D, Sig=350,4 Ref=off

   Peak RetTime Type  Width     Area      Height     Area
     #   [min]        [min]   [mAU*s]     [mAU]       %
   ----|-------|----|-------|----------|----------|--------|
      1  10.535 BV    0.1299  100.12522    9.24326   0.5740
      2  11.190 BV    0.1946 1.70843e4  1056.98206  97.9357
      3  12.108 VB    0.2100  140.34764    7.87284   0.8045
      4  12.765 VB    0.1226  119.63232   12.12732   0.6858

   Totals :                  1.74444e4  1086.22548


   ========================================================================
                            *** End of Report ***
```

```
Acq. Operator   : SYSTEM                        Seq. Line :   1
Acq. Instrument : HPLC-Solaja                   Location : Vial 85
Injection Date  : 11/2/2018 10:00:08 AM             Inj :   1
                                               Inj Volume : 3.000 µl
Method          : C:\CHEM32\1\DATA\DEJAN\AMINOHINOLINI 2.2 2018-11-02 09-58-52\METODA 49.M (
                  Sequence Method)
Last changed    : 11/2/2018 9:58:53 AM by SYSTEM
```




```
================================================================================
                          Fraction Information
================================================================================
================================================================================
No Fractions found.

================================================================================
================================================================
                        Area Percent Report
================================================================

Sorted By             :      Signal
Multiplier            :      1.0000
Dilution              :      1.0000
Use Multiplier & Dilution Factor with ISTDs

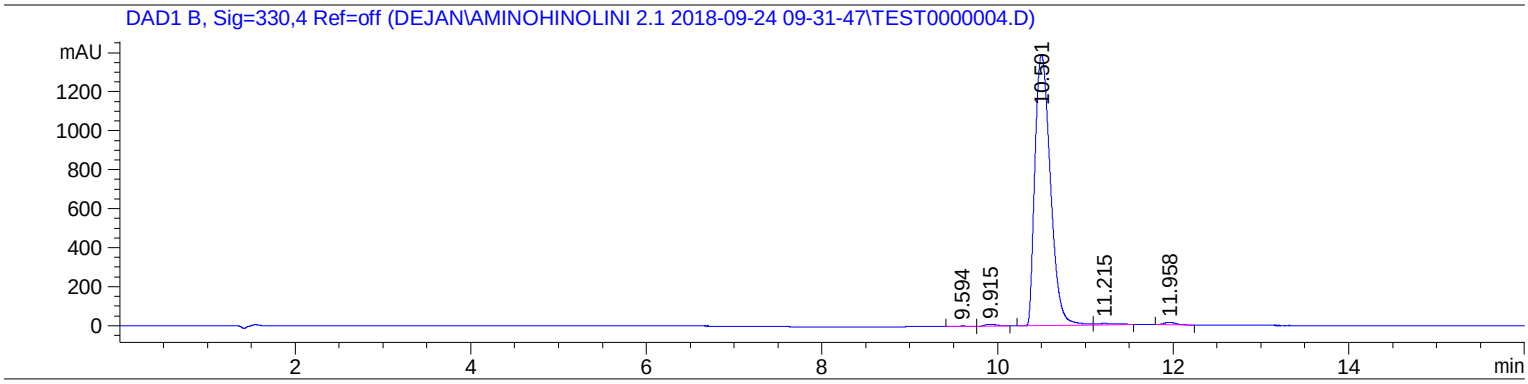
Signal 1: DAD1 B, Sig=330,4 Ref=off

Peak RetTime Type  Width     Area      Height     Area
  #   [min]        [min]   [mAU*s]     [mAU]       %
----|-------|----|-------|----------|----------|--------|
   1  10.655 VB    0.1520  366.86597   31.46397   2.4940
   2  11.511 BB    0.0910   26.69113    3.48096   0.1815
   3  11.805 BV    0.2079 1.39822e4  1056.71667  95.0541
   4  12.330 VB    0.1345  174.53729   15.54403   1.1865
   5  12.692 BB    0.1053   27.34042    3.11840   0.1859
   6  13.030 BV    0.0815   39.35479    5.88817   0.2675
   7  13.380 VB    0.1431   92.73604    7.63924   0.6304

Totals :                  1.47097e4  1123.85144

  ================================================================
                          *** End of Report ***
```

Acq. Operator : SYSTEM Seq. Line : 4
Acq. Instrument : HPLC-Solaja Location : Vial 35
Injection Date : 9/24/2018 10:39:47 AM Inj : 1
Inj Volume : 1.000 µl
Method : C:\CHEM32\1\DATA\DEJAN\AMINOHINOLINI 2.1 2018-09-24 09-31-47\METODA 49.M (Sequence Method)
Last changed : 9/24/2018 9:31:48 AM by SYSTEM



Fraction Information

No Fractions found.

Area Percent Report

Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 B, Sig=330,4 Ref=off

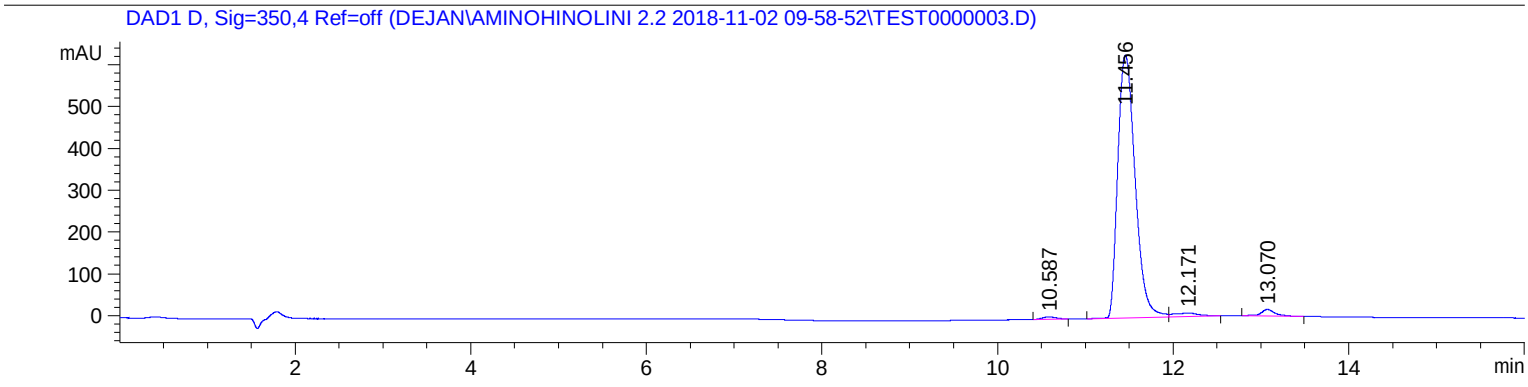
Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	9.594	BB	0.1005	15.49413	1.85382	0.0895
2	9.915	BB	0.1076	89.22538	10.19766	0.5156
3	10.501	BV	0.1946	1.69824e4	1389.00366	98.1332
4	11.215	VB	0.1956	112.95313	6.82301	0.6527
5	11.958	BB	0.1070	105.38860	12.11382	0.6090
Totals :				1.73055e4	1419.99196	

*** End of Report ***

Data File C:\CHEM32\1\DATA\DEJAN\AMINOHINOLINI 2.2 2018-11-02 09-58-52\TEST0000003.D
Sample Name: DO256 Comp. 10

Method B S123

```
==========================================================================
Acq. Operator   : SYSTEM                        Seq. Line :   3
Acq. Instrument : HPLC-Solaja                    Location : Vial 89
Injection Date  : 11/2/2018 10:44:47 AM               Inj :   1
                                               Inj Volume : 3.000 µl
Method          : C:\CHEM32\1\DATA\DEJAN\AMINOHINOLINI 2.2 2018-11-02 09-58-52\METODA 49.M (
                  Sequence Method)
Last changed    : 11/2/2018 9:58:53 AM by SYSTEM
```




```
==============================================================================
                          Fraction Information
==============================================================================
==============================================================================
No Fractions found.

==============================================================================
=====================================================================
                        Area Percent Report
=====================================================================

Sorted By             :      Signal
Multiplier            :      1.0000
Dilution              :      1.0000
Use Multiplier & Dilution Factor with ISTDs

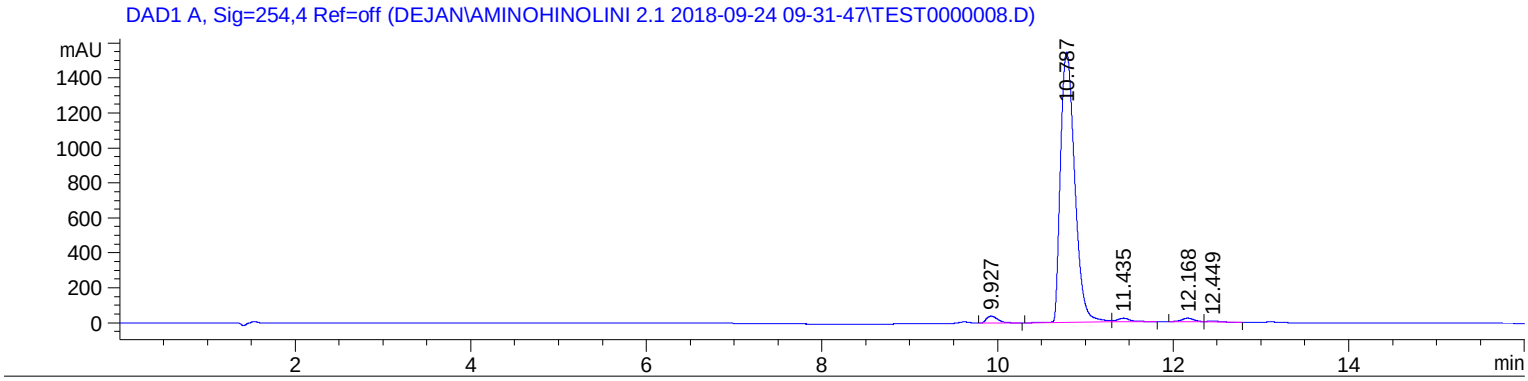

Signal 1: DAD1 D, Sig=350,4 Ref=off

Peak RetTime Type  Width     Area      Height     Area
  #   [min]        [min]   [mAU*s]     [mAU]       %
----|-------|----|-------|----------|----------|--------|
   1  10.587 BB    0.1296   58.95996    5.47631   0.6563
   2  11.456 BV    0.2131 8597.53906  628.56818  95.6995
   3  12.171 VB    0.2219  156.40646    8.28090   1.7410
   4  13.070 BB    0.1300  170.98805   15.76829   1.9033

Totals :                  8983.89354  658.09368


=====================================================================
                        *** End of Report ***
```

```
==========================================================================
Acq. Operator   : SYSTEM                        Seq. Line :   8
Acq. Instrument : HPLC-Solaja                    Location : Vial 13
Injection Date  : 9/24/2018 12:08:53 PM               Inj :   1
                                                Inj Volume : 1.000 µl
Method          : C:\CHEM32\1\DATA\DEJAN\AMINOHINOLINI 2.1 2018-09-24 09-31-47\METODA 49.M (
                  Sequence Method)
Last changed    : 9/24/2018 9:31:48 AM by SYSTEM
```




```
==============================================================================
                          Fraction Information
==============================================================================
==============================================================================
No Fractions found.

 ==============================================================================
 ========================================================================
                         Area Percent Report
 ========================================================================

 Sorted By             :      Signal
 Multiplier            :      1.0000
 Dilution              :      1.0000
 Use Multiplier & Dilution Factor with ISTDs

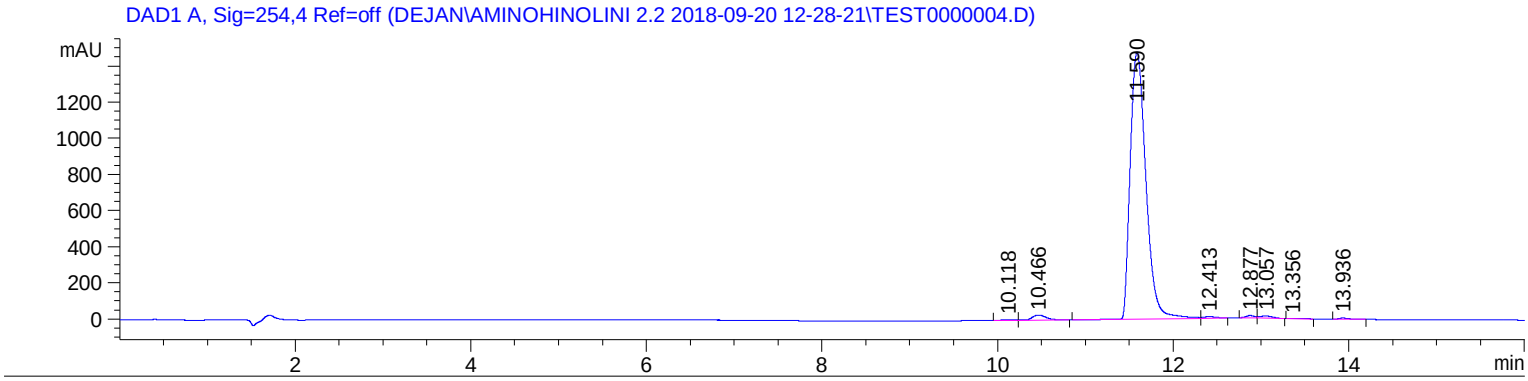

 Signal 1: DAD1 A, Sig=254,4 Ref=off

 Peak RetTime Type  Width     Area      Height     Area
   #   [min]        [min]   [mAU*s]     [mAU]       %
----|-------|----|-------|----------|----------|--------|
   1   9.927 VV    0.1455  375.29047   39.99793   2.0546
   2  10.787 BV    0.1778 1.74050e4  1546.11914  95.2857
   3  11.435 VB    0.1409  227.62527   21.09580   1.2462
   4  12.168 BV    0.1267  203.29474   20.57973   1.1130
   5  12.449 VB    0.1133   54.90244    6.26220   0.3006

 Totals :                 1.82661e4  1634.05480


 ========================================================================
                         *** End of Report ***
```

```
Acq. Operator   : SYSTEM                          Seq. Line :   4
                                                   Location : Vial 19
Injection Date  : 9/20/2018 1:36:28 PM                 Inj :   1
Acq. Method     : METODA 49.M
Analysis Method : C:\CHEM32\1\DATA\DEJAN\AMINOHINOLINI 2.2 2018-09-20 12-28-21\METODA 49.M (
                  Sequence Method)
Last changed    : 9/20/2018 12:28:21 PM by SYSTEM
```




```
Fraction Information

No Fractions found.

Area Percent Report

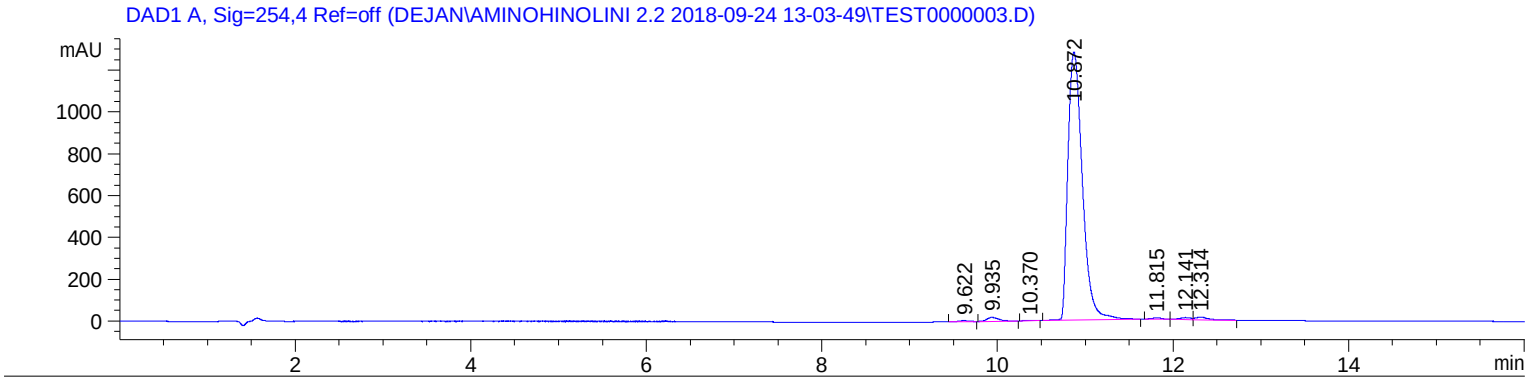
Sorted By             :      Signal
Multiplier            :      1.0000
Dilution              :      1.0000
Use Multiplier & Dilution Factor with ISTDs

 Signal 1: DAD1 A, Sig=254,4 Ref=off
```

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	10.118	BV	0.1057	36.93618	4.15460	0.1940
2	10.466	VB	0.1584	311.46753	28.18804	1.6356
3	11.590	BV	0.1929	1.83464e4	1477.63281	96.3412
4	12.413	VB	0.1249	82.64511	8.17888	0.4340
5	12.877	BV	0.1036	88.26731	12.92914	0.4635
6	13.057	VB	0.1308	123.18229	11.56396	0.6469
7	13.356	BB	0.1066	9.88786	1.13010	0.0519
8	13.936	BB	0.0877	44.37113	6.03846	0.2330
Totals :				1.90431e4	1549.81600	

```
                        *** End of Report ***
```

Acq. Operator : SYSTEM Seq. Line : 3
Acq. Instrument : HPLC-Solaja Location : Vial 22
Injection Date : 9/24/2018 1:49:33 PM Inj : 1
Inj Volume : 2.000 µl
Method : C:\CHEM32\1\DATA\DEJAN\AMINOHINOLINI 2.2 2018-09-24 13-03-49\METODA 49.M (Sequence Method)
Last changed : 9/24/2018 1:03:49 PM by SYSTEM



Fraction Information

No Fractions found.

Area Percent Report

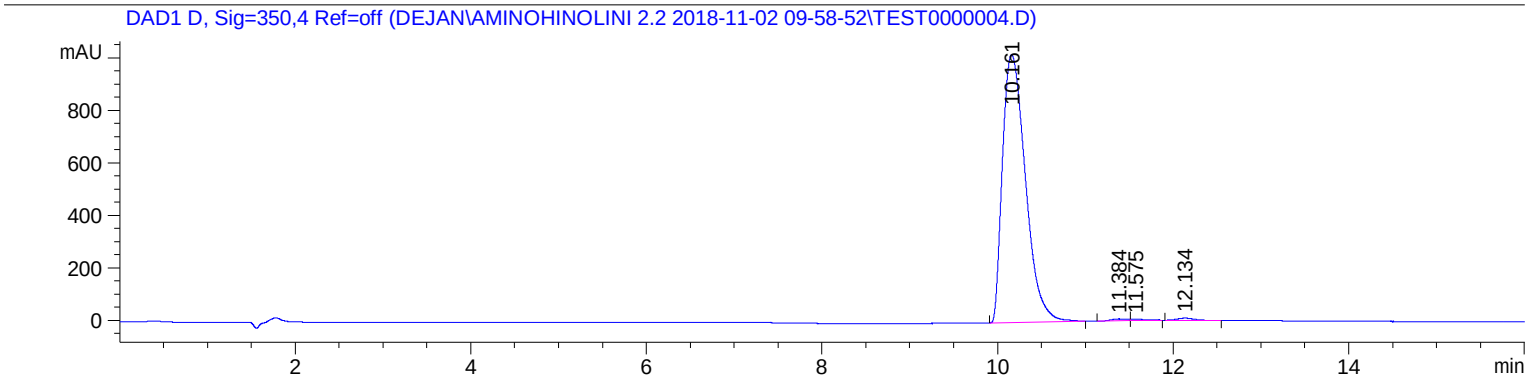
Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=off

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	9.622	BB	0.0961	37.27309	4.64413	0.2465
2	9.935	BB	0.1353	169.26367	18.31262	1.1192
3	10.370	BB	0.0958	14.32164	1.79974	0.0947
4	10.872	BB	0.1783	1.46528e4	1282.17944	96.8891
5	11.815	VV	0.0947	47.52282	6.01644	0.3142
6	12.141	VV	0.1072	83.06345	9.39424	0.5492
7	12.314	VB	0.1223	119.02179	12.88455	0.7870
Totals :				1.51233e4	1335.23118	

*** End of Report ***

Acq. Operator : SYSTEM Seq. Line : 4
Acq. Instrument : HPLC-Solaja Location : Vial 90
Injection Date : 11/2/2018 11:07:08 AM Inj : 1
Inj Volume : 3.000 µl
Method : C:\CHEM32\1\DATA\DEJAN\AMINOHINOLINI 2.2 2018-11-02 09-58-52\METODA 49.M (Sequence Method)
Last changed : 11/2/2018 9:58:53 AM by SYSTEM



Fraction Information

No Fractions found.

Area Percent Report

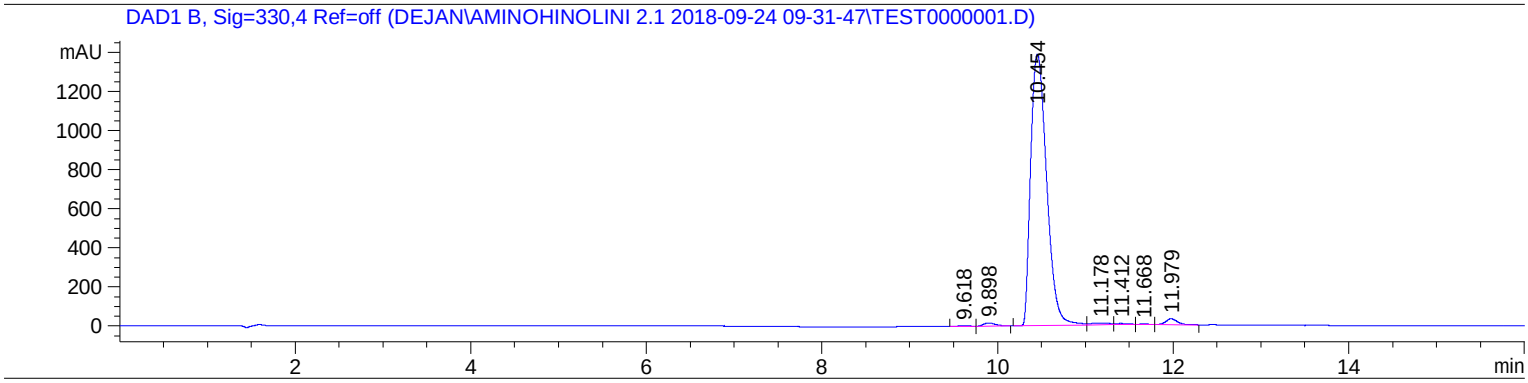
Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 D, Sig=350,4 Ref=off

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	10.161	BV	0.2241	1.84936e4	1019.64233	98.6197
2	11.384	BV	0.1467	90.92650	7.48520	0.4849
3	11.575	VB	0.1376	54.53008	4.67458	0.2908
4	12.134	BV	0.1625	113.38973	8.24043	0.6047
Totals :				1.87524e4	1040.04255	

*** End of Report ***

```
Acq. Operator   : SYSTEM                        Seq. Line :   1
Acq. Instrument : HPLC-Solaja                   Location : Vial 32
Injection Date  : 9/24/2018 9:33:01 AM               Inj :   1
                                               Inj Volume : 1.000 µl
Method          : C:\CHEM32\1\DATA\DEJAN\AMINOHINOLINI 2.1 2018-09-24 09-31-47\METODA 49.M (
                  Sequence Method)
Last changed    : 9/24/2018 9:31:48 AM by SYSTEM
```




```
Fraction Information

No Fractions found.

Area Percent Report

Sorted By             :      Signal
Multiplier            :      1.0000
Dilution              :      1.0000
Use Multiplier & Dilution Factor with ISTDs

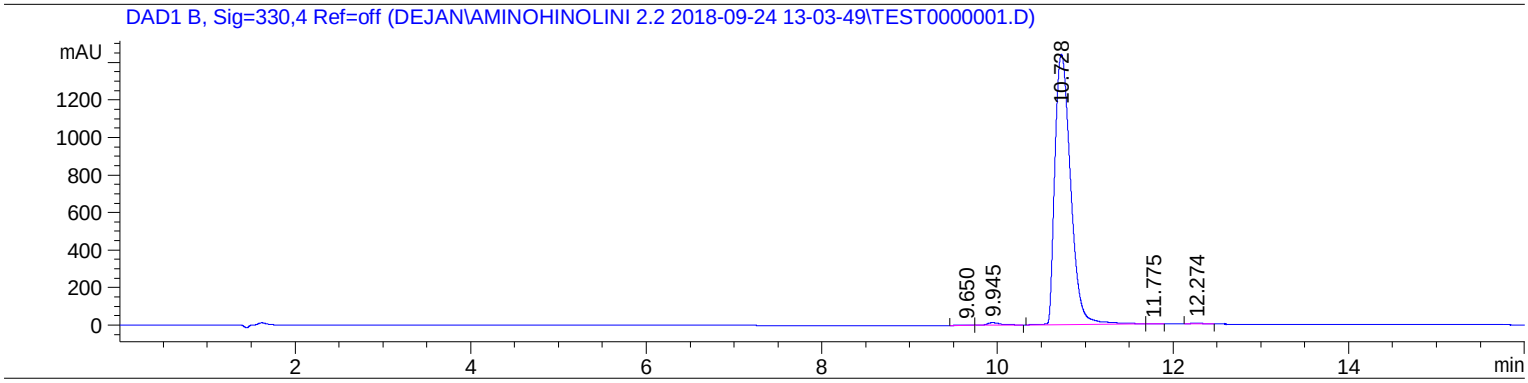

Signal 1: DAD1 B, Sig=330,4 Ref=off

Peak RetTime Type  Width     Area      Height     Area
  #   [min]        [min]   [mAU*s]     [mAU]       %
----|-------|----|-------|----------|----------|--------|
   1   9.618 BB    0.1023   18.60093    2.22946   0.1026
   2   9.898 BB    0.1136  141.24886   15.83117   0.7794
   3  10.454 BV    0.2016 1.75136e4  1388.85107  96.6444
   4  11.178 VV    0.1808  123.88504    8.06124   0.6836
   5  11.412 VB    0.1184   46.20932    4.61090   0.2550
   6  11.668 BV    0.0880   10.92669    1.48251   0.0603
   7  11.979 VB    0.1308  267.22107   29.74162   1.4746

Totals :                  1.81217e4  1450.80798


                      *** End of Report ***
```

Acq. Operator : SYSTEM Seq. Line : 1
Acq. Instrument : HPLC-Solaja Location : Vial 14
Injection Date : 9/24/2018 1:05:04 PM Inj : 1
Inj Volume : 2.000 µl
Method : C:\CHEM32\1\DATA\DEJAN\AMINOHINOLINI 2.2 2018-09-24 13-03-49\METODA 49.M (Sequence Method)
Last changed : 9/24/2018 1:03:49 PM by SYSTEM



Fraction Information

No Fractions found.

Area Percent Report

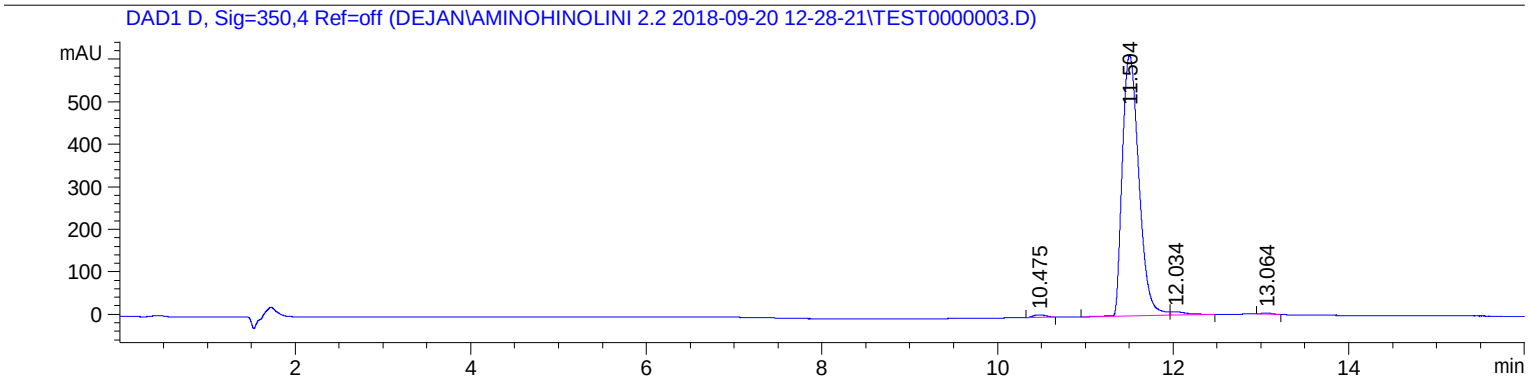
Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 B, Sig=330,4 Ref=off

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	9.650	BV	0.0937	12.57610	1.59999	0.0695
2	9.945	VB	0.1280	132.49211	13.04329	0.7318
3	10.728	BV	0.1945	1.79146e4	1441.62170	98.9445
4	11.775	VB	0.1039	12.42508	1.42908	0.0686
5	12.274	BB	0.1035	33.61221	4.14769	0.1856
Totals :				1.81057e4	1461.84176	

*** End of Report ***

Acq. Operator : SYSTEM Seq. Line : 3
Acq. Instrument : HPLC-Solaja Location : Vial 18
Injection Date : 9/20/2018 1:14:10 PM Inj : 1
Inj Volume : 3.500 µl
Method : C:\CHEM32\1\DATA\DEJAN\AMINOHINOLINI 2.2 2018-09-20 12-28-21\METODA 49.M (Sequence Method)
Last changed : 9/20/2018 12:28:21 PM by SYSTEM



Fraction Information

No Fractions found.

Area Percent Report

Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 D, Sig=350,4 Ref=off

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	10.475	BV	0.1148	58.79041	6.05633	0.7143
2	11.504	BV	0.2071	8035.87402	614.18396	97.6404
3	12.034	VV	0.1629	111.74293	8.07965	1.3577
4	13.064	BB	0.0918	23.66003	3.09097	0.2875
Totals :				8230.06738	631.41091	

*** End of Report ***

```
Acq. Operator   : SYSTEM                        Seq. Line :   2
Acq. Instrument : HPLC-Solaja                   Location : Vial 88
Injection Date  : 11/2/2018 10:22:25 AM             Inj :   1
                                               Inj Volume : 3.000 µl
Method          : C:\CHEM32\1\DATA\DEJAN\AMINOHINOLINI 2.2 2018-11-02 09-58-52\METODA 49.M (
                  Sequence Method)
Last changed    : 11/2/2018 9:58:53 AM by SYSTEM
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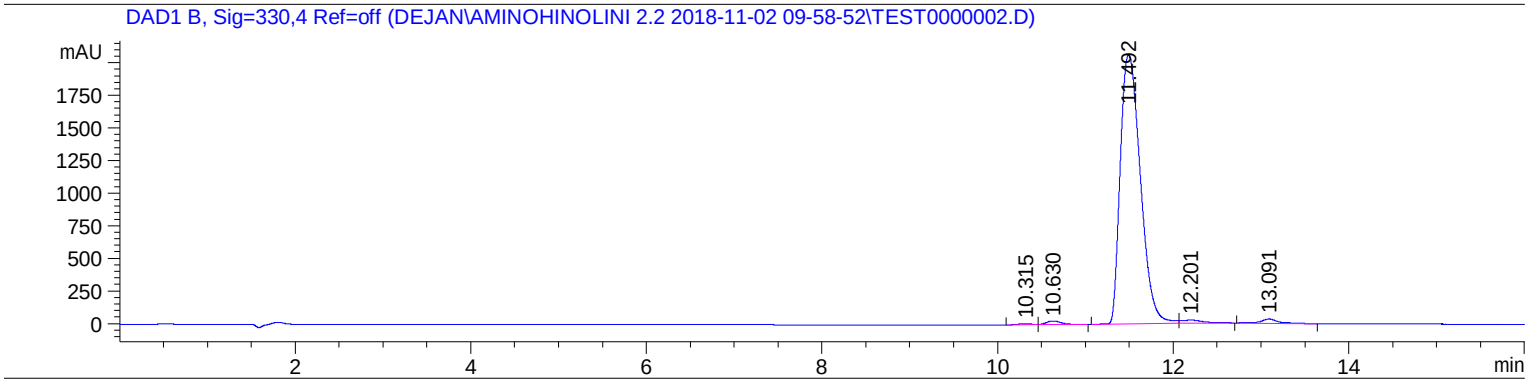


```
================================================================================
                          Fraction Information
================================================================================
================================================================================
No Fractions found.

================================================================================
================================================================================
                         Area Percent Report
================================================================================

Sorted By             :      Signal
Multiplier            :      1.0000
Dilution              :      1.0000
Use Multiplier & Dilution Factor with ISTDs


 Signal  1: DAD1 B, Sig=330,4 Ref=off

 Peak RetTime Type  Width     Area      Height     Area
   #   [min]       [min]   [mAU*s]     [mAU]       %
 ----|-------|----|-------|----------|----------|--------|
    1  10.315 BV    0.1309   90.48939    8.35390   0.2649
    2  10.630 VB    0.1516  334.41461   28.15024   0.9791
    3  11.492 BV    0.1879 3.28805e4  2069.15039  96.2671
    4  12.201 VB    0.2079  431.02664   24.84214   1.2620
    5  13.091 BB    0.1732  419.05115   32.11974   1.2269

 Totals :                  3.41555e4  2162.61641


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                         *** End of Report ***
```
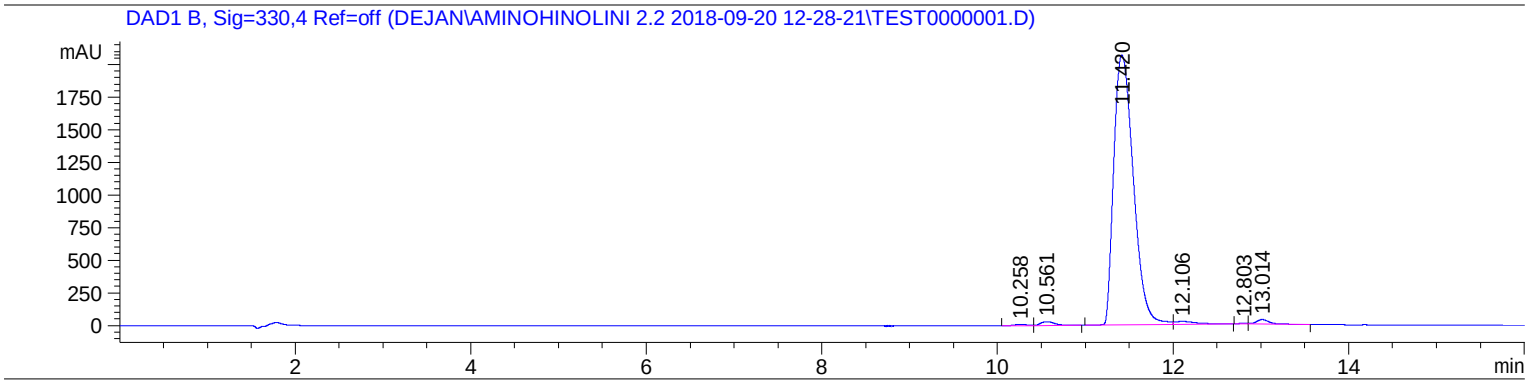

Acq. Operator : SYSTEM Seq. Line : 1
Acq. Instrument : HPLC-Solaja Location : Vial 16
Injection Date : 9/20/2018 12:29:37 PM Inj : 1
Inj Volume : 3.500 µl
Method : C:\CHEM32\1\DATA\DEJAN\AMINOHINOLINI 2.2 2018-09-20 12-28-21\METODA 49.M (Sequence Method)
Last changed : 9/20/2018 12:28:21 PM by SYSTEM



Fraction Information

No Fractions found.

Area Percent Report

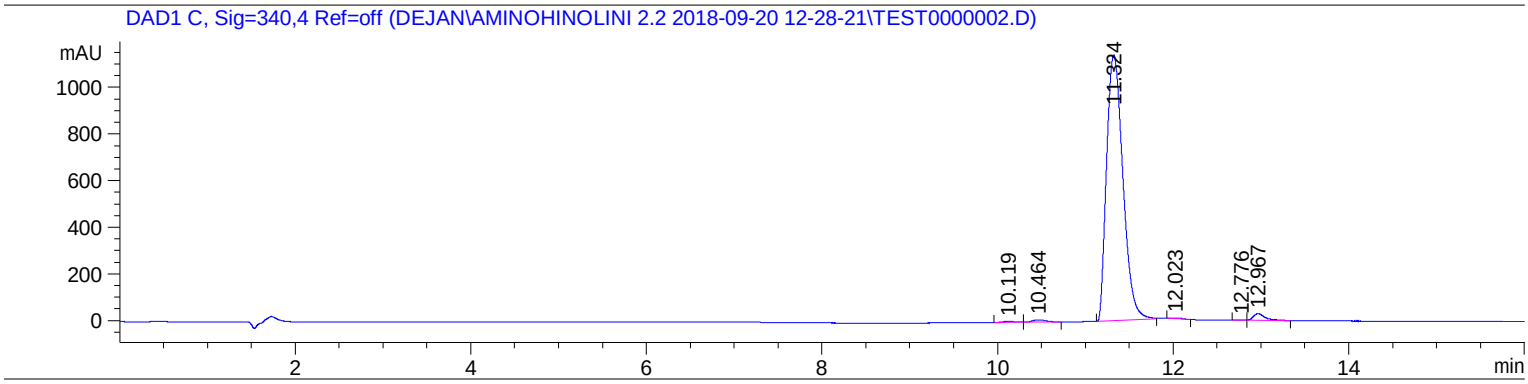
Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 B, Sig=330,4 Ref=off

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	10.258	BV	0.1228	88.94350	9.31994	0.2679
2	10.561	VV	0.1320	326.18216	29.26688	0.9824
3	11.420	BV	0.1826	3.20183e4	2068.58740	96.4360
4	12.106	VB	0.2014	374.60739	21.97228	1.1283
5	12.803	BV	0.0738	27.60483	4.48254	0.0831
6	13.014	VB	0.1472	365.97195	34.50904	1.1023
Totals :				3.32016e4	2168.13808	

*** End of Report ***

Acq. Operator : SYSTEM Seq. Line : 2
Acq. Instrument : HPLC-Solaja Location : Vial 17
Injection Date : 9/20/2018 12:51:54 PM Inj : 1
Inj Volume : 3.500 µl
Method : C:\CHEM32\1\DATA\DEJAN\AMINOHINOLINI 2.2 2018-09-20 12-28-21\METODA 49.M (Sequence Method)
Last changed : 9/20/2018 12:28:21 PM by SYSTEM



Fraction Information

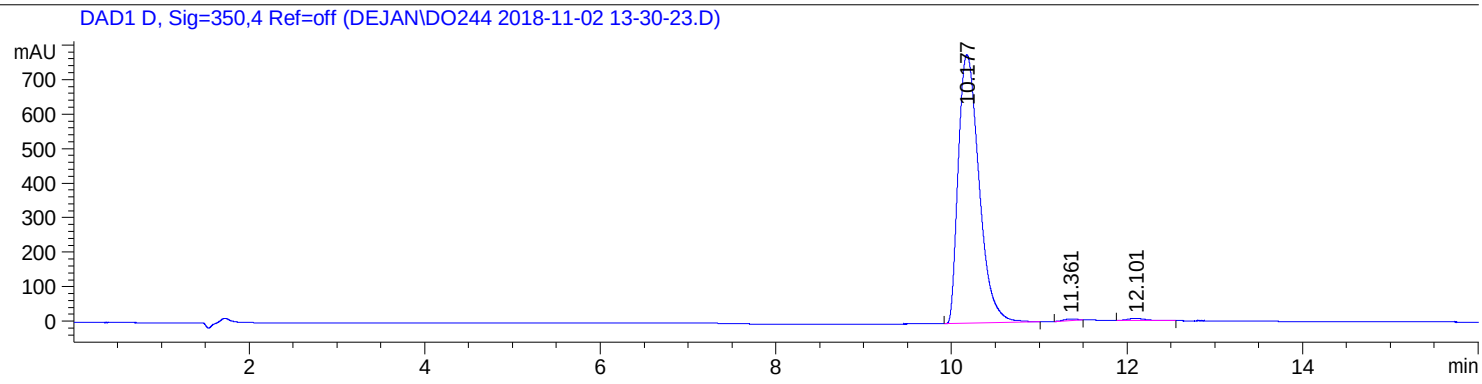
No Fractions found.

Signal 1: DAD1 C, Sig=340,4 Ref=off

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	10.119	BV	0.1083	43.08901	4.70824	0.2844
2	10.464	VV	0.1230	101.98378	9.95949	0.6731
3	11.324	BV	0.2001	1.47083e4	1139.58545	97.0728
4	12.023	VB	0.1076	32.72069	3.64902	0.2160
5	12.776	BV	0.0812	9.54584	1.39754	0.0630
6	12.967	VB	0.1275	256.18103	27.92545	1.6908
Totals :				1.51518e4	1187.22518	

*** End of Report ***

```
==========================================================================
Acq. Operator   : SYSTEM
Acq. Instrument : HPLC-Solaja                    Location : Vial 11
Injection Date  : 11/2/2018 1:31:32 PM
                                                 Inj Volume : 2.000 µl
Acq. Method     : C:\CHEM32\1\METHODS\METODA 49.M
Last changed    : 11/2/2018 1:30:13 PM by SYSTEM
                  (modified after loading)
Analysis Method : C:\CHEM32\1\METHODS\METODA 7.M
Last changed    : 11/1/2018 1:02:44 PM by SYSTEM
Sample Info     : MeOH/HCOOH
                  Zorbax Eclipse, 2.1 x 100 mm
```

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==========================================================================================
                            Fraction Information
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No Fractions found.
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                         Area Percent Report
==========================================================================

Sorted By             :      Signal
Multiplier            :      1.0000
Dilution              :      1.0000
Use Multiplier & Dilution Factor with ISTDs


Signal 1: DAD1 D, Sig=350,4 Ref=off

Peak RetTime Type  Width     Area      Height     Area
  #   [min]        [min]   [mAU*s]     [mAU]       %
----|-------|----|-------|----------|----------|--------|
   1  10.177 BV    0.2448 1.27549e4   777.93585  98.9351
   2  11.361 BB    0.1122   44.52917    4.69456   0.3454
   3  12.101 VV    0.1665   92.75457    6.61670   0.7195

Totals :                  1.28921e4   789.24711


==========================================================================
                          *** End of Report ***
```

```
Acq. Operator   : SYSTEM                        Seq. Line :   9
Acq. Instrument : HPLC-Solaja                   Location : Vial 40
Injection Date  : 9/24/2018 12:31:10 PM              Inj :   1
                                               Inj Volume : 1.000 µl
Method          : C:\CHEM32\1\DATA\DEJAN\AMINOHINOLINI 2.1 2018-09-24 09-31-47\METODA 49.M (
                  Sequence Method)
Last changed    : 9/24/2018 9:31:48 AM by SYSTEM
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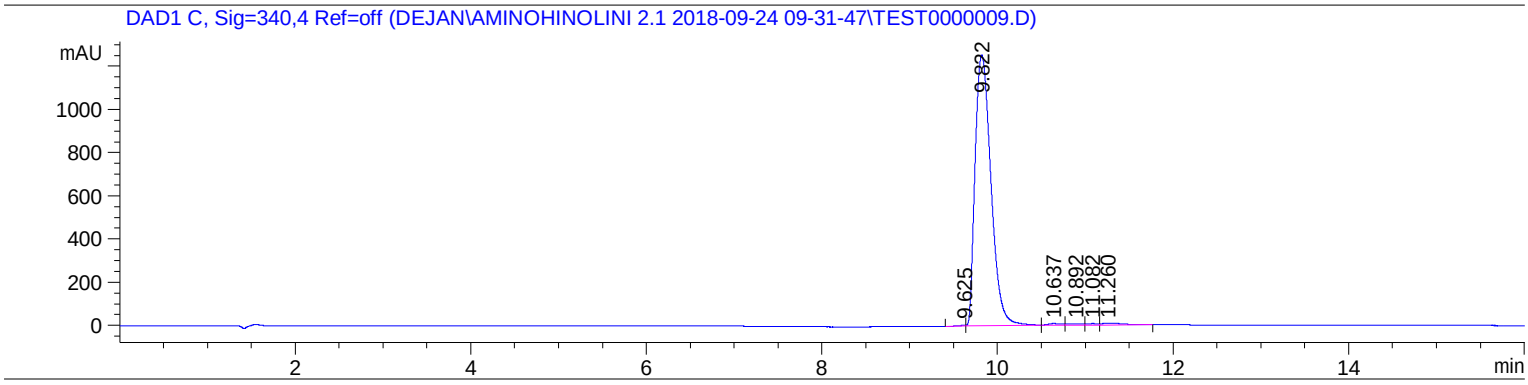
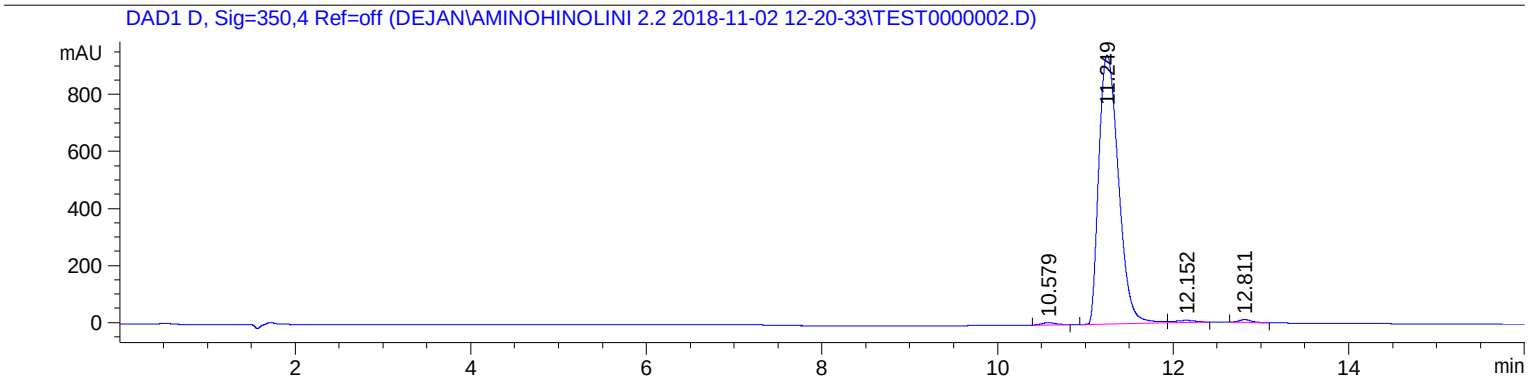



```
                          Fraction Information

No Fractions found.

                          Area Percent Report

Sorted By             :      Signal
Multiplier            :      1.0000
Dilution              :      1.0000
Use Multiplier & Dilution Factor with ISTDs


Signal 1: DAD1 C, Sig=340,4 Ref=off

Peak RetTime Type  Width     Area      Height     Area
  #   [min]        [min]   [mAU*s]     [mAU]       %
----|-------|----|-------|----------|----------|--------|
   1   9.625 BV    0.0697   18.97182    3.34393   0.1182
   2   9.822 VB    0.1933 1.57232e4  1254.21033  97.9204
   3  10.637 BV    0.1132   64.49618    6.73345   0.4017
   4  10.892 VV    0.1306   66.11797    5.97388   0.4118
   5  11.082 VV    0.1036   53.52516    6.14742   0.3333
   6  11.260 VB    0.1909  130.81319    8.03862   0.8147

Totals :                  1.60572e4  1284.44762


                          *** End of Report ***
```

Data File C:\CHEM32\1\DATA\DEJAN\AMINOHINOLINI 2.2 2018-11-02 12-20-33\TEST0000002.D
Sample Name: DO245 Comp. 23


```
==========================================================================
Acq. Operator   : SYSTEM                          Seq. Line :   2
                                                   Location : Vial 87
Injection Date  : 11/2/2018 12:44:01 PM                Inj :   1
Acq. Method     : METODA 49.M
Analysis Method : C:\CHEM32\1\DATA\DEJAN\AMINOHINOLINI 2.2 2018-11-02 12-20-33\METODA 49.M (
                  Sequence Method)
Last changed    : 11/2/2018 12:20:34 PM by SYSTEM
```




```
==============================================================================
                          Fraction Information
==============================================================================
==============================================================================
No Fractions found.

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 ========================================================================
                        Area Percent Report
 ========================================================================

 Sorted By             :      Signal
 Multiplier            :      1.0000
 Dilution              :      1.0000
 Use Multiplier & Dilution Factor with ISTDs


 Signal 1: DAD1 D, Sig=350,4 Ref=off

 Peak RetTime Type  Width     Area      Height     Area
   #   [min]        [min]   [mAU*s]     [mAU]       %
----|-------|----|-------|----------|----------|--------|
   1  10.579 BB    0.1289   83.53401    7.71187   0.5609
   2  11.249 BV    0.2454 1.45864e4   943.34076  97.9481
   3  12.152 VB    0.2038  124.58837    7.18545   0.8366
   4  12.811 BB    0.1180   97.43875    9.93224   0.6543

 Totals :                 1.48920e4   968.17032


 ========================================================================
                          *** End of Report ***
```
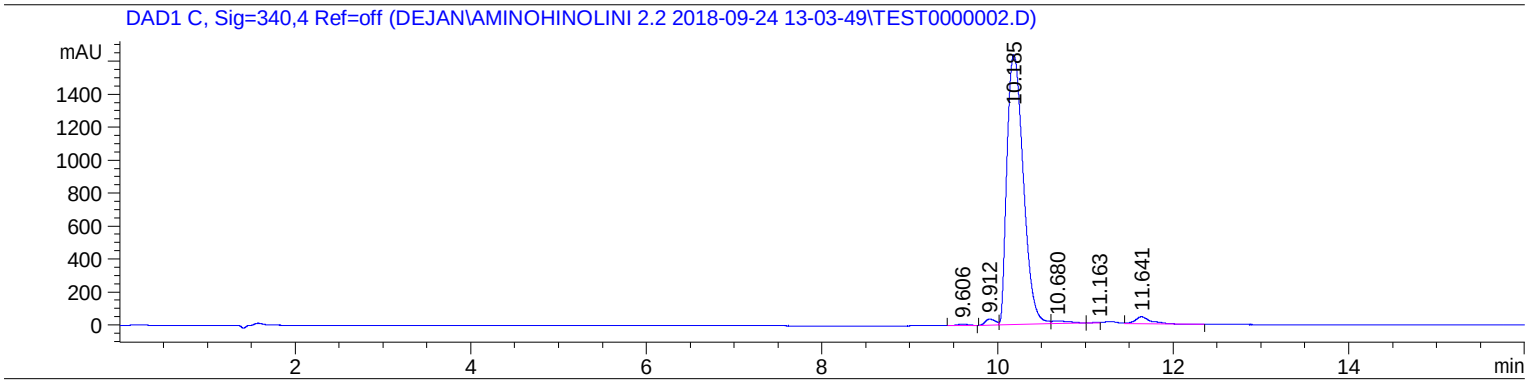

Data File C:\CHEM32\1\DATA\DEJAN\AMINOHINOLINI 2.2 2018-09-24 13-03-49\TEST0000002.D
Sample Name: DO255 Comp. 24


```
==========================================================================
Acq. Operator   : SYSTEM                        Seq. Line :   2
Acq. Instrument : HPLC-Solaja                    Location : Vial 20
Injection Date  : 9/24/2018 1:27:21 PM                Inj :   1
                                               Inj Volume : 2.000 µl
Method          : C:\CHEM32\1\DATA\DEJAN\AMINOHINOLINI 2.2 2018-09-24 13-03-49\METODA 49.M (
                  Sequence Method)
Last changed    : 9/24/2018 1:03:49 PM by SYSTEM
```

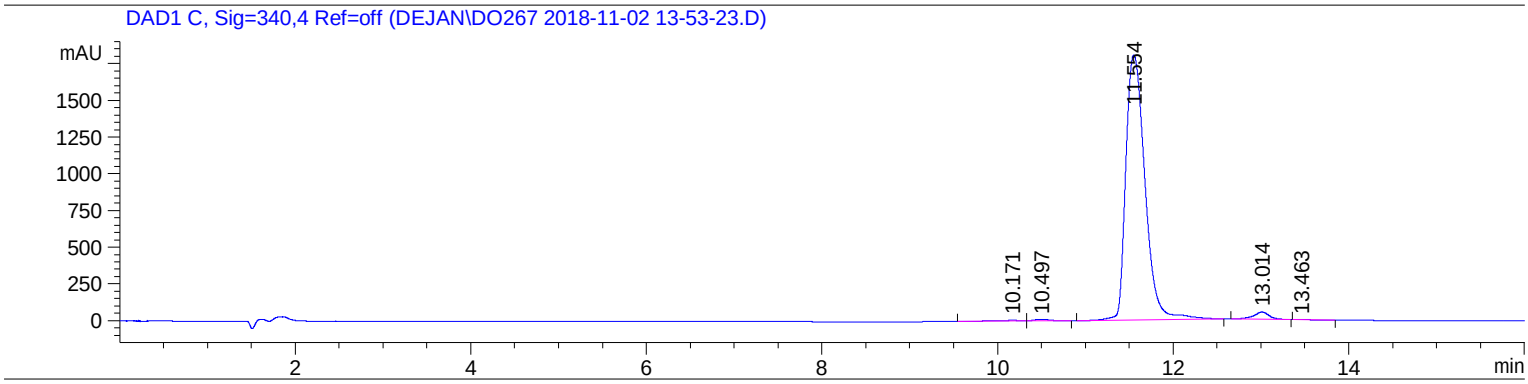



```
==============================================================================
                          Fraction Information
==============================================================================
==============================================================================
No Fractions found.

==============================================================================
==========================================================================
                        Area Percent Report
==========================================================================

Sorted By             :      Signal
Multiplier            :      1.0000
Dilution              :      1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 C, Sig=340,4 Ref=off
```

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	9.606	BB	0.1001	69.22753	8.18822	0.3113
2	9.912	BV	0.1217	286.24258	35.46542	1.2872
3	10.185	VV	0.1581	2.11410e4	1637.83716	95.0717
4	10.680	VB	0.1552	218.08217	16.77341	0.9807
5	11.163	BV	0.0566	25.03832	5.39879	0.1126
6	11.641	VB	0.1475	497.30048	41.45297	2.2364
Totals :				2.22369e4	1745.11596	

```
==========================================================================
                        *** End of Report ***
```

Acq. Operator : SYSTEM
Location : Vial 23
Injection Date : 11/2/2018 1:54:38 PM
Acq. Method : METODA 49.M
Analysis Method : C:\CHEM32\1\METHODS\METODA 7.M
Last changed : 11/1/2018 1:02:44 PM by SYSTEM
Sample Info : MeOH/HCOOH
Zorbax Eclipse, 2.1 x 100 mm



Fraction Information

No Fractions found.

Area Percent Report

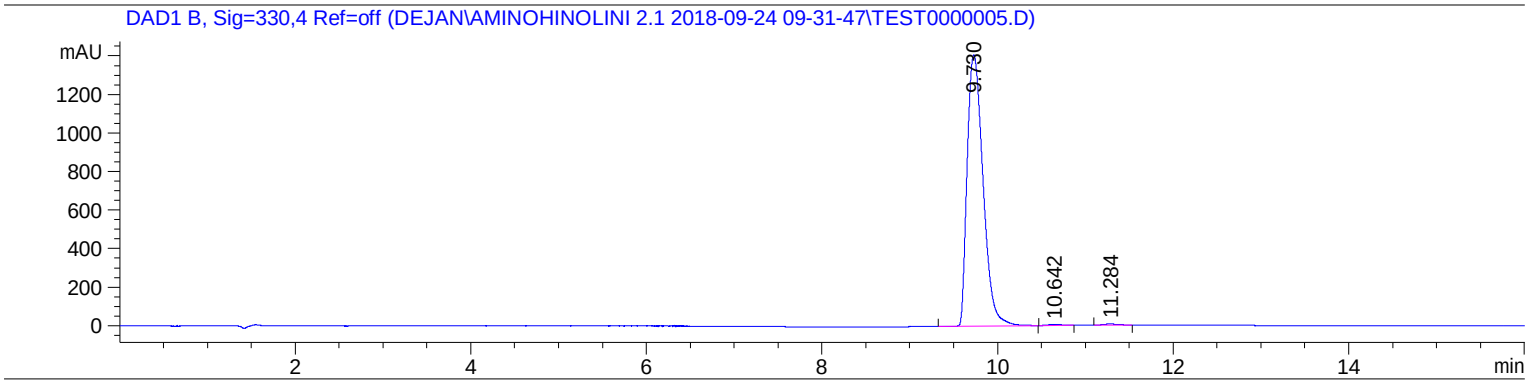
Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 C, Sig=340,4 Ref=off

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	10.171	BV	0.2628	117.38590	5.30236	0.4136
2	10.497	VB	0.1427	148.45836	12.26753	0.5231
3	11.554	BV	0.1832	2.74844e4	1804.90283	96.8474
4	13.014	BB	0.1679	604.64941	49.36929	2.1306
5	13.463	BB	0.1151	24.17425	2.51608	0.0852
Totals :				2.83790e4	1874.35810	

*** End of Report ***

Acq. Operator : SYSTEM Seq. Line : 5
Acq. Instrument : HPLC-Solaja Location : Vial 36
Injection Date : 9/24/2018 11:02:04 AM Inj : 1
Inj Volume : 1.000 µl
Method : C:\CHEM32\1\DATA\DEJAN\AMINOHINOLINI 2.1 2018-09-24 09-31-47\METODA 49.M (Sequence Method)
Last changed : 9/24/2018 9:31:48 AM by SYSTEM



Fraction Information

No Fractions found.

Area Percent Report

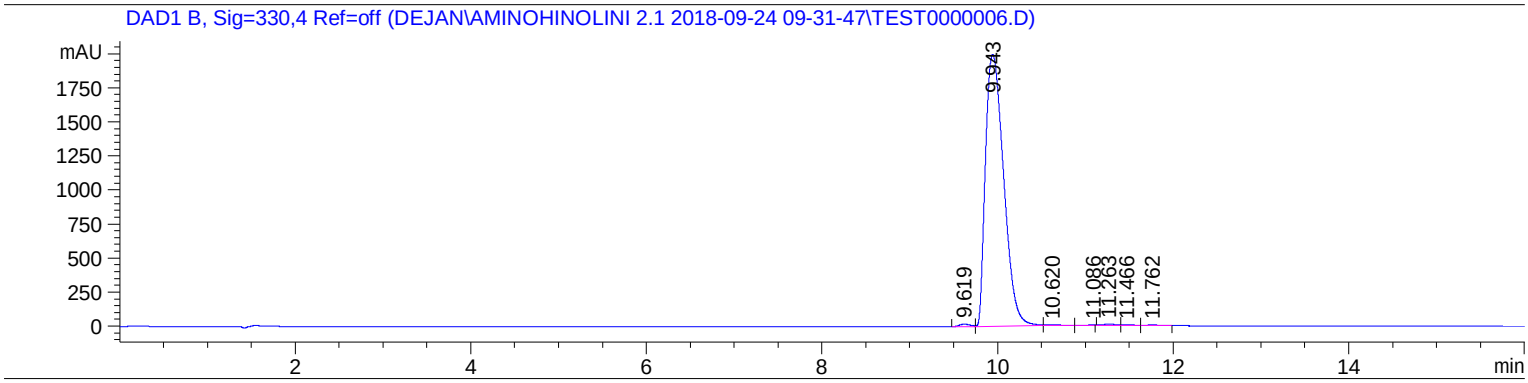
Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 B, Sig=330,4 Ref=off

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	9.730	BB	0.1993	1.77127e4	1408.05347	99.3198
2	10.642	BV	0.1266	56.89201	5.39156	0.3190
3	11.284	BV	0.1391	64.42239	5.50121	0.3612
Totals :				1.78340e4	1418.94624	

*** End of Report ***

Acq. Operator : SYSTEM Seq. Line : 6
Acq. Instrument : HPLC-Solaja Location : Vial 37
Injection Date : 9/24/2018 11:24:22 AM Inj : 1
Inj Volume : 1.000 µl
Method : C:\CHEM32\1\DATA\DEJAN\AMINOHINOLINI 2.1 2018-09-24 09-31-47\METODA 49.M (Sequence Method)
Last changed : 9/24/2018 9:31:48 AM by SYSTEM



Fraction Information

No Fractions found.

Area Percent Report

Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 B, Sig=330,4 Ref=off

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	9.619	BV	0.1131	147.88704	16.90021	0.5074
2	9.943	VV	0.1810	2.87289e4	1995.13074	98.5668
3	10.620	VB	0.1392	76.74567	6.62418	0.2633
4	11.086	BV	0.0870	19.31896	2.63644	0.0663
5	11.263	VV	0.1368	95.02108	8.67460	0.3260
6	11.466	VB	0.0969	44.50569	5.47301	0.1527
7	11.762	BB	0.1048	34.23966	3.94514	0.1175
Totals :				2.91466e4	2039.38430	

*** End of Report ***

```
Acq. Operator   : SYSTEM                        Seq. Line :   1
Acq. Instrument : HPLC-Solaja                    Location : Vial 86
Injection Date  : 11/2/2018 12:21:47 PM               Inj :   1
                                               Inj Volume : 1.000 µl
Method          : C:\CHEM32\1\DATA\DEJAN\AMINOHINOLINI 2.2 2018-11-02 12-20-33\METODA 49.M (
                  Sequence Method)
Last changed    : 11/2/2018 12:20:34 PM by SYSTEM
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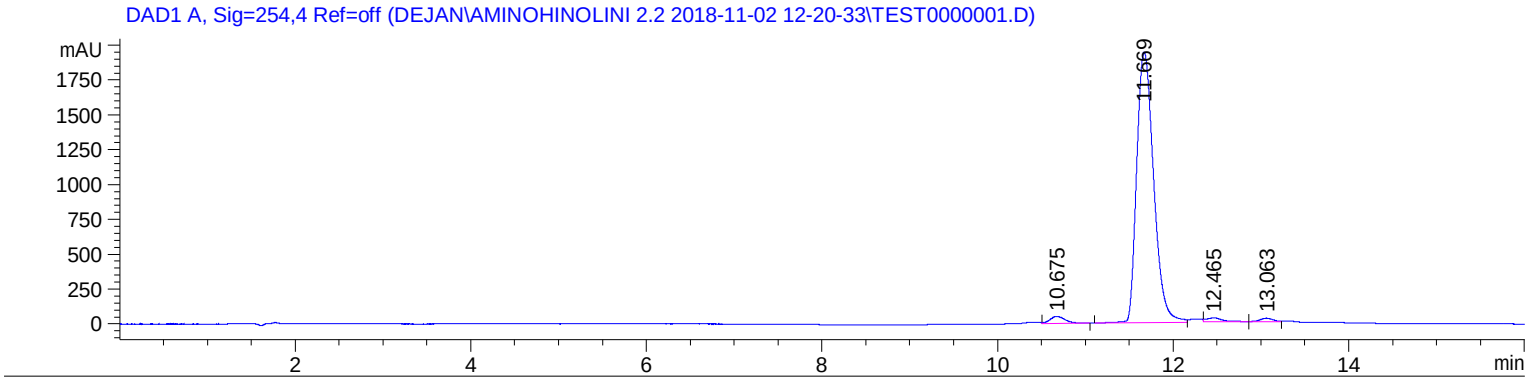


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================================================================================
                          Fraction Information
================================================================================
================================================================================
No Fractions found.

================================================================================
================================================================
                       Area Percent Report
================================================================

Sorted By             :      Signal
Multiplier            :      1.0000
Dilution              :      1.0000
Use Multiplier & Dilution Factor with ISTDs


Signal 1: DAD1 A, Sig=254,4 Ref=off

Peak RetTime Type  Width     Area      Height     Area
  #   [min]        [min]   [mAU*s]     [mAU]       %
----|-------|----|-------|----------|----------|--------|
   1  10.675 VB    0.1774  594.20874   49.73825   2.1838
   2  11.669 BV    0.2073 2.59846e4  1939.47302  95.4986
   3  12.465 VB    0.1619  359.32056   28.53363   1.3206
   4  13.063 BV    0.1479  271.28427   25.85684   0.9970

Totals :                  2.72094e4  2043.60174


================================================================
                        *** End of Report ***
```
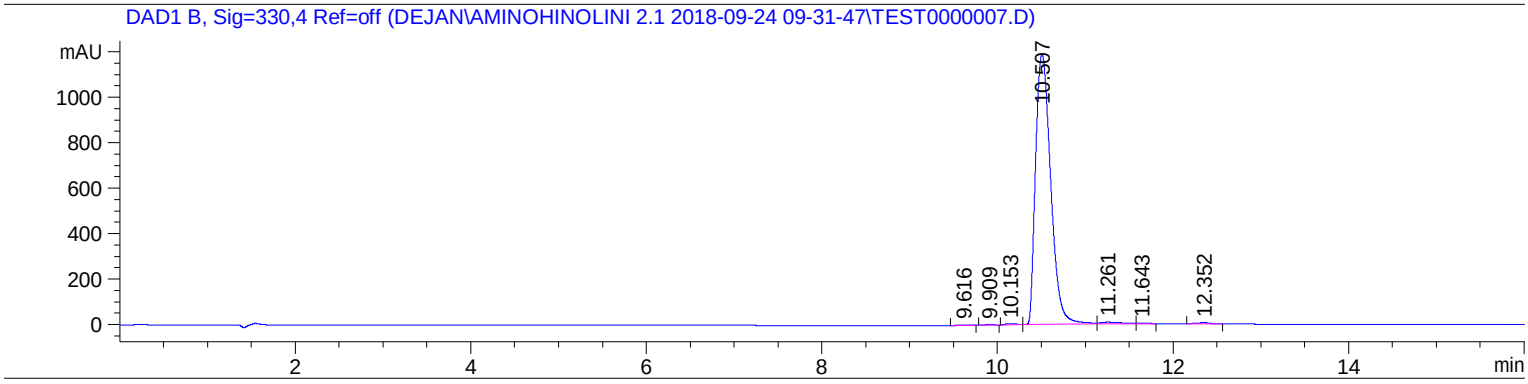

Data File C:\CHEM32\1\DATA\DEJAN\AMINOHINOLINI 2.1 2018-09-24 09-31-47\TEST0000007.D
Sample Name: DO242 Comp. 29


```
Acq. Operator   : SYSTEM                        Seq. Line :   7
Acq. Instrument : HPLC-Solaja                   Location : Vial 39
Injection Date  : 9/24/2018 11:46:39 AM              Inj :   1
                                               Inj Volume : 1.000 µl
Method          : C:\CHEM32\1\DATA\DEJAN\AMINOHINOLINI 2.1 2018-09-24 09-31-47\METODA 49.M (
                  Sequence Method)
Last changed    : 9/24/2018 9:31:48 AM by SYSTEM
```



Fraction Information

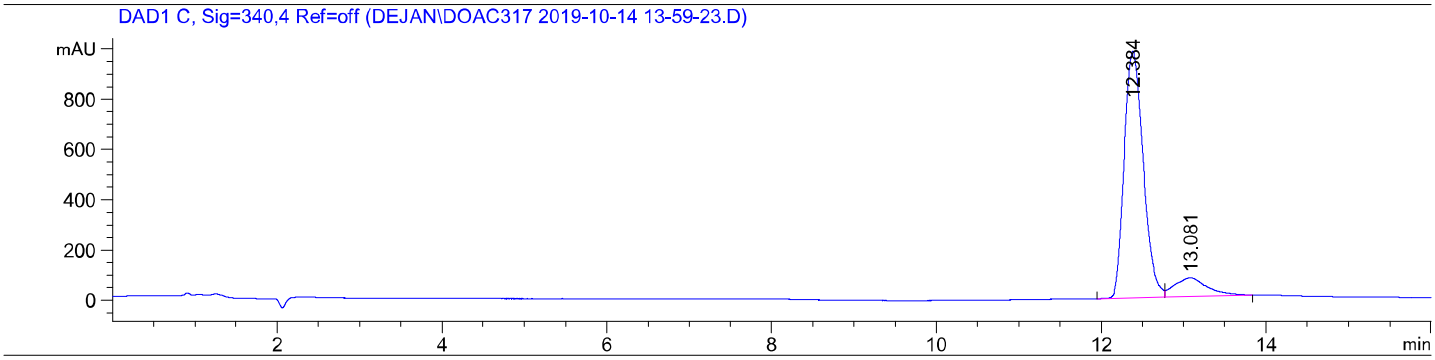
No Fractions found.

Signal 1: DAD1 B, Sig=330,4 Ref=off

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	9.616	BB	0.0955	17.10630	2.14687	0.1178
2	9.909	BB	0.0923	14.77700	1.90817	0.1018
3	10.153	BV	0.1084	42.46755	4.67749	0.2925
4	10.507	VV	0.1883	1.42537e4	1189.26147	98.1649
5	11.261	VV	0.1947	131.67758	7.97331	0.9069
6	11.643	VB	0.0976	14.48318	1.75825	0.0997
7	12.352	BB	0.1147	45.94949	5.00207	0.3165
Totals :				1.45202e4	1212.72763	

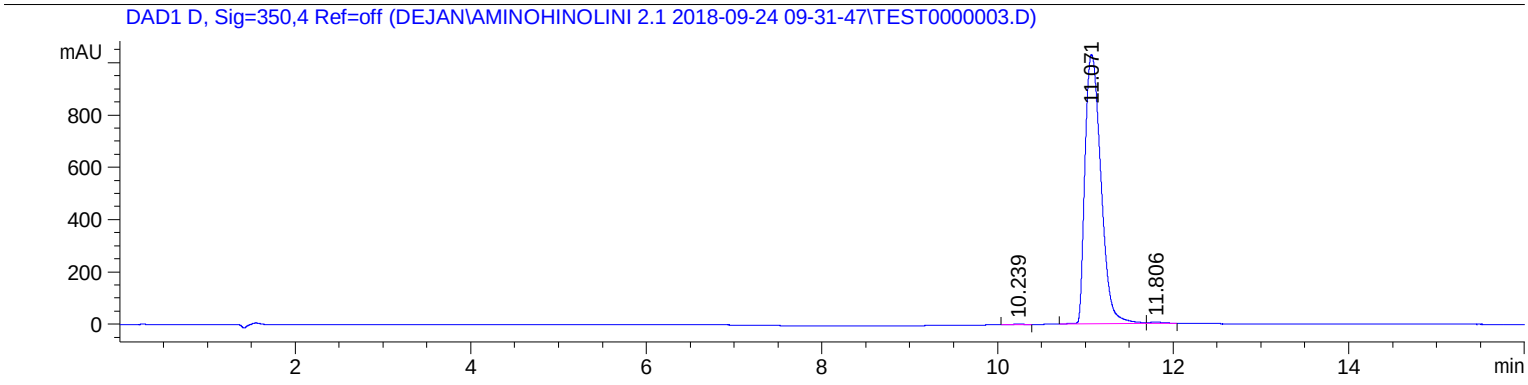
*** End of Report ***

```
==========================================================================
Acq. Operator    : SYSTEM
Acq. Instrument : HPLC-Solaja                    Location : Vial 23
Injection Date   : 10/14/2019 2:00:34 PM
                                                 Inj Volume : 0.500 µl
Acq. Method      : C:\CHEM32\1\METHODS\METODA 49.M
Last changed     : 10/14/2019 1:58:53 PM by SYSTEM
                   (modified after loading)
Analysis Method : C:\CHEM32\1\METHODS\MELITIN GRADIJENTNO 01.M
Last changed     : 10/10/2019 11:44:21 AM by SYSTEM
Additional Info : Peak(s) manually integrated
```




```
==============================================================================
                          Fraction Information
==============================================================================

==============================================================================
No Fractions found.
==============================================================================
========================================================================
                        Area Percent Report
========================================================================

Sorted By             :      Signal
Calib. Data Modified  :      9/11/2019 12:39:08 PM
Multiplier            :      1.0000
Dilution              :      1.0000
Sample Amount:                :      1.00000  [ng/ul]   (not used in calc.)
Use Multiplier & Dilution Factor with ISTDs


Signal 1: DAD1 C, Sig=340,4 Ref=off

Peak RetTime  Type   Width     Area      Area    Name
  #   [min]          [min]   [mAU*s]       %
----|-------|------|-------|----------|--------|--------------------
   1  12.384 BV      0.1952 1.57788e4   88.4564 ?
   2  13.081 VB      0.3339 2059.14111  11.5436 ?

Totals :                   1.78379e4


========================================================================
                         *** End of Report ***
```

Acq. Operator : SYSTEM Seq. Line : 3
Acq. Instrument : HPLC-Solaja Location : Vial 34
Injection Date : 9/24/2018 10:17:32 AM Inj : 1
Inj Volume : 1.000 µl
Method : C:\CHEM32\1\DATA\DEJAN\AMINOHINOLINI 2.1 2018-09-24 09-31-47\METODA 49.M (Sequence Method)
Last changed : 9/24/2018 9:31:48 AM by SYSTEM



Fraction Information

No Fractions found.

Area Percent Report

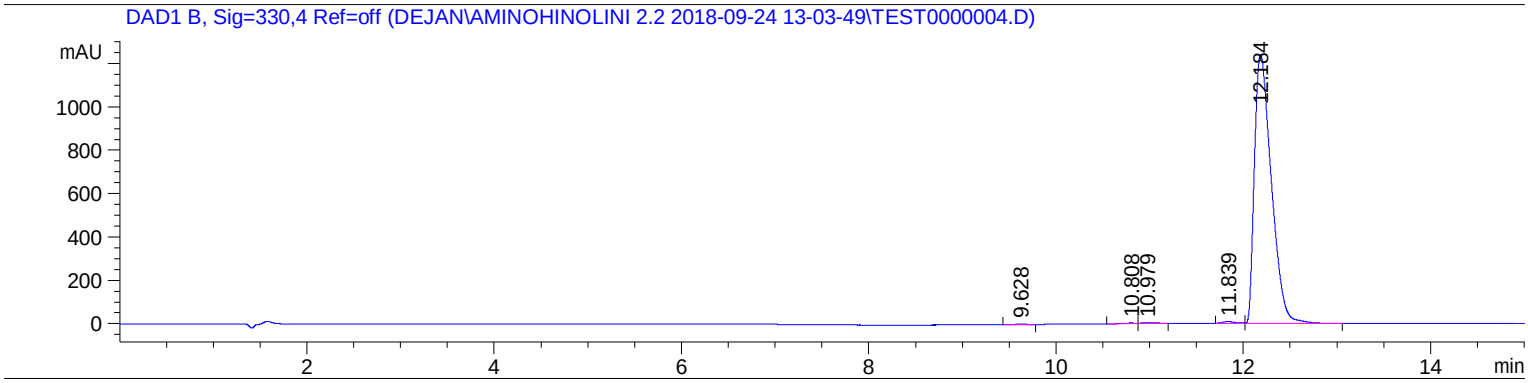
Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 D, Sig=350,4 Ref=off

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	10.239	BV	0.1022	19.89844	2.31594	0.1532
2	11.071	BV	0.1919	1.29245e4	1030.10901	99.4772
3	11.806	VB	0.1283	48.02117	4.47060	0.3696
Totals :				1.29924e4	1036.89555	

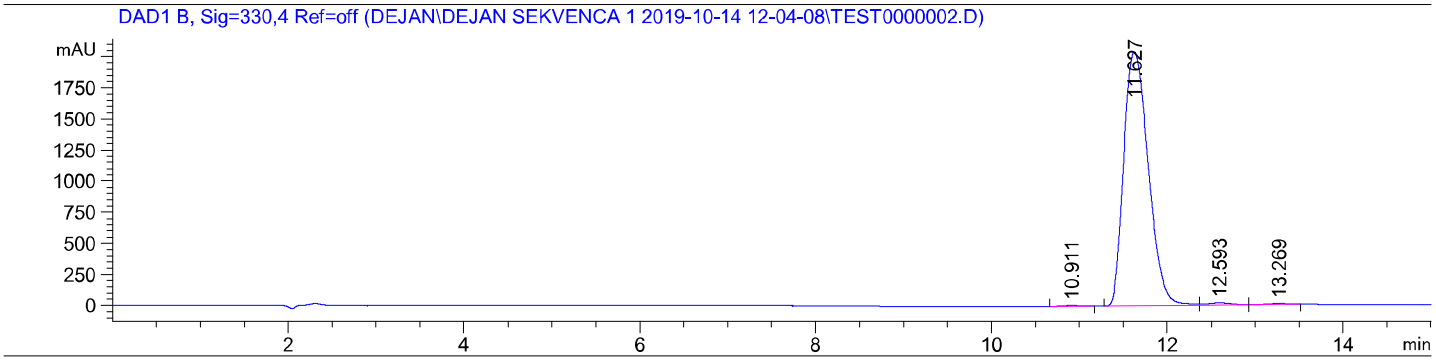
*** End of Report ***

```
==========================================================================
Acq. Operator   : SYSTEM                        Seq. Line :   4
Acq. Instrument : HPLC-Solaja                    Location : Vial 24
Injection Date  : 9/24/2018 2:11:49 PM                Inj :   1
                                               Inj Volume : 2.000 µl
Acq. Method     : C:\CHEM32\1\DATA\DEJAN\AMINOHINOLINI 2.2 2018-09-24 13-03-49\METODA 49.M
Last changed    : 9/24/2018 2:19:53 PM by SYSTEM
                  (modified after loading)
Analysis Method : C:\CHEM32\1\DATA\DEJAN\AMINOHINOLINI 2.2 2018-09-24 13-03-49\METODA 49.M (
                  Sequence Method)
Last changed    : 9/24/2018 1:03:49 PM by SYSTEM
```




```
==========================================================================
                        Fraction Information
==========================================================================
 No Fractions found.


==========================================================================
                       Area Percent Report
==========================================================================

Sorted By             :      Signal
Multiplier            :      1.0000
Dilution              :      1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 2: DAD1 B, Sig=330,4 Ref=off

Peak RetTime Type  Width     Area      Height     Area
  #   [min]        [min]   [mAU*s]     [mAU]       %
----|-------|----|-------|----------|----------|--------|
   1   9.628 BB    0.1050   13.08897    1.47593   0.0837
   2  10.808 BV    0.1239   28.81391    2.79249   0.1842
   3  10.979 VB    0.1246   38.89345    3.68586   0.2486
   4  11.839 BV    0.1015   61.24453    7.56149   0.3915
   5  12.184 VB    0.1849 1.55021e4  1239.67371  99.0920

Totals :                  1.56441e4  1255.18949


==========================================================================
                        *** End of Report ***
```

```
==========================================================================
Acq. Operator    : SYSTEM                          Seq. Line :   2
Acq. Instrument : HPLC-Solaja                      Location : Vial 24
Injection Date   : 10/14/2019 12:36:37 PM               Inj :   1
                                                  Inj Volume : 2.000 µl
Method           : C:\CHEM32\1\DATA\DEJAN\DEJAN SEKVENCA 1 2019-10-14 12-04-08\METODA 49.M (
                   Sequence Method)
Last changed     : 10/14/2019 12:04:08 PM by SYSTEM
Additional Info  : Peak(s) manually integrated
```

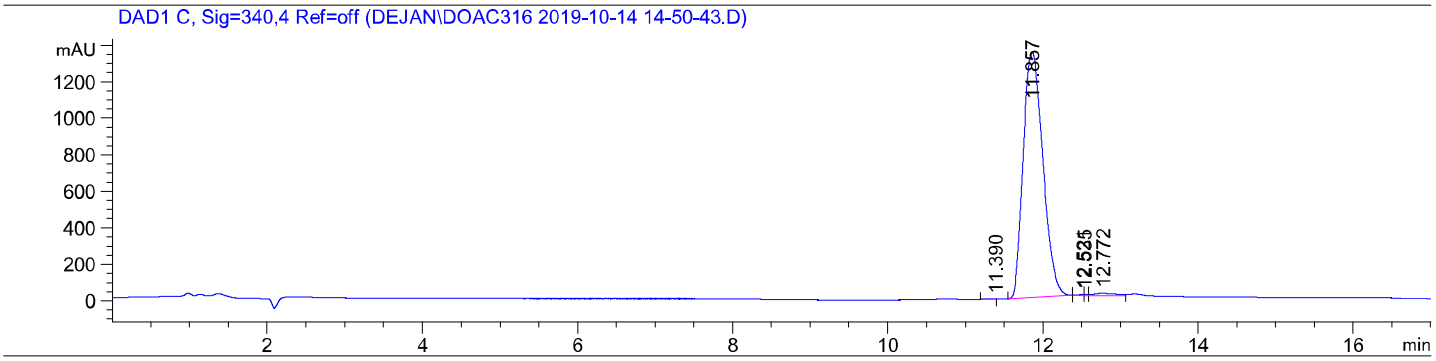



```
================================================================================
                          Fraction Information
================================================================================
================================================================================
No Fractions found.

================================================================================
================================================================================
                        Area Percent Report
================================================================================

Sorted By             :      Signal
Multiplier            :      1.0000
Dilution              :      1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 B, Sig=330,4 Ref=off

Peak RetTime Type  Width     Area      Height     Area
  #   [min]        [min]   [mAU*s]     [mAU]       %
----|-------|----|-------|----------|----------|--------|
   1  10.911 BB    0.1611   76.93320    5.71471   0.1918
   2  11.627 BV    0.2289 3.96388e4  2042.72864  98.8107
   3  12.593 VV    0.2130  296.93796   16.37672   0.7402
   4  13.269 VV    0.1775  103.23694    6.86480   0.2573

Totals :                  4.01159e4  2071.68487


================================================================================
                          *** End of Report ***
```

Data File C:\CHEM32\1\DATA\DEJAN\DOAC316 2019-10-14 14-50-43.D
Sample Name: DOAC316 Comp 34

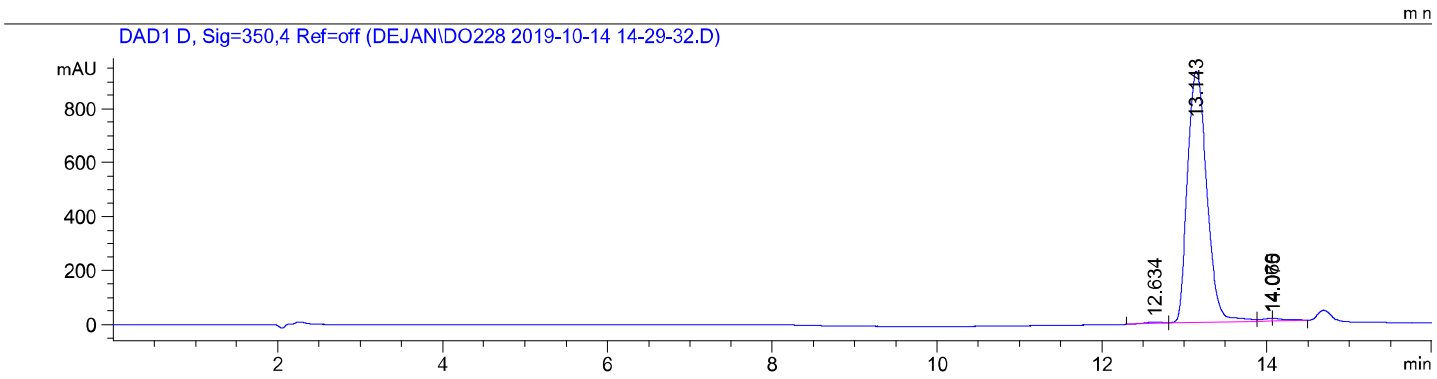
Method B


```
==========================================================================
Acq. Operator    : SYSTEM
Acq. Instrument : HPLC-Solaja                    Location : Vial 22
Injection Date  : 10/14/2019 2:51:52 PM
                                                 Inj Volume : 1.000 µl
Acq. Method      : C:\CHEM32\1\METHODS\METODA 49.M
Last changed     : 10/14/2019 3:00:57 PM by SYSTEM
                   (modified after loading)
Analysis Method : C:\CHEM32\1\METHODS\MELITIN GRADIJENTNO 01.M
Last changed     : 10/10/2019 11:44:21 AM by SYSTEM
Additional Info : Peak(s) manually integrated
```




```
============================================================================
                          Fraction Information
============================================================================
============================================================================
 No Fractions found.
============================================================================
========================================================================
                        Area Percent Report
========================================================================

Sorted By             :      Signal
Calib. Data Modified  :      9/11/2019 12:39:08 PM
Multiplier            :      1.0000
Dilution              :      1.0000
Sample Amount:        :      1.00000  [ng/ul]   (not used in calc.)
Use Multiplier & Dilution Factor with ISTDs


Signal 1: DAD1 C, Sig=340,4 Ref=off

Peak RetTime  Type   Width     Area      Area    Name
  #   [min]          [min]   [mAU*s]       %
----|-------|------|-------|----------|--------|---------------------
   1  11.390 BV      0.0906   10.44562   0.0435
   2  11.857 BB      0.2130 2.36803e4   98.5409 ?
   3  12.521 BV      0.0524   22.59354   0.0940 ?
   4  12.535 VV      0.0478   21.25652   0.0885 ?
   5  12.772 VV      0.2617  296.33267   1.2331 ?

Totals :                   2.40309e4

========================================================================
                        *** End of Report ***
```

```
Acq. Operator    : SYSTEM
Acq. Instrument  : HPLC-Solaja                    Location : Vial 21
Injection Date   : 10/14/2019 2:30:41 PM
                                                  Inj Volume : 1.000 µl
Acq. Method      : C:\CHEM32\1\METHODS\METODA 49.M
Last changed     : 10/14/2019 2:27:37 PM by SYSTEM
                   (modified after loading)
Analysis Method  : C:\CHEM32\1\METHODS\MELITIN GRADIJENTNO 01.M
Last changed     : 10/10/2019 11:44:21 AM by SYSTEM
Additional Info  : Peak s  manuall  inte rated
```




```
                        Fraction Information

No Fractions found.

                        Area Percent Report

Sorted By             :      Signal
Calib. Data Modified  :      9/11/2019 12:39:08 PM
Multiplier            :      1.0000
Dilution              :      1.0000
Sample Amount:        :      1.00000  [ng/ul]   (not used in calc.)
Use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 D, Sig=350,4 Ref=off

Peak RetTime  Type   Width     Area      Area    Name
  #   [min]          [min]   [mAU*s]       %
----|-------|------|-------|----------|--------|--------------------
   1  12.634 BB      0.1673   61.62022   0.3972 ?
   2  13.143 BV      0.2219 1.52184e4   98.0994 ?
   3  14.060 VV      0.1108  106.86462   0.6889 ?
   4  14.075 VB      0.1315  126.35424   0.8145 ?

Totals :                   1.55132e4

                        *** End of Report ***
```