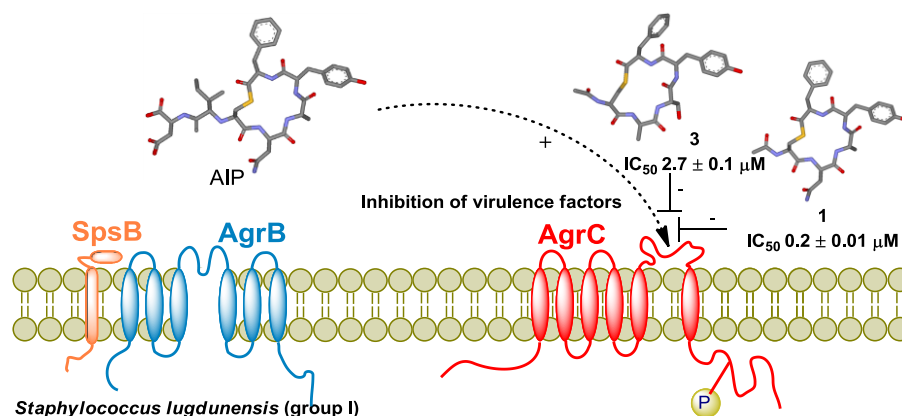


Supplementary Information

Truncated auto-inducing peptides as antagonists of *Staphylococcus lugdunensis* quorum sensing

Christopher P. Gordon,^{a*} Shondra D. Olson,^b Jessica L. Lister,^b Jeffrey S. Kavanaugh,^b and Alexander R. Horswill^{b*}

Competitive quorum sensing antagonism (QS) offers a novel strategy for attenuating current multi-drug resistant staphylococcal infections. To this end, a series of 10 truncated analogues based on the parent auto-inducing peptides (AIPs) of *Staphylococcus lugdunensis* (group I & II) and *Staphylococcus epidermidis* (groups I – III) were sequentially assessed against a newly developed *Staphylococcus lugdunensis* group I QS reporter strain. The truncated analogues based upon *Staphylococcus lugdunensis* AIP-1 (**1**) and AIP-2 (**2**) displayed respective IC_{50} values of $0.2 \pm 0.01 \mu\text{M}$ and $0.3 \pm 0.01 \mu\text{M}$ whilst the truncated analogue of the *S. Staphylococcus. epidermidis* AIP-1 (**3**) elicited an IC_{50} value of $2.7 \pm 0.1 \mu\text{M}$. These findings demonstrate the potential of cognate and ‘cross-talk’ competitive quorum sensing inhibition using truncated AIPs as a means of attenuating staphylococcal infections in species beyond *Staphylococcus aureus*.



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Biology, Quorum-sensing inhibition assay

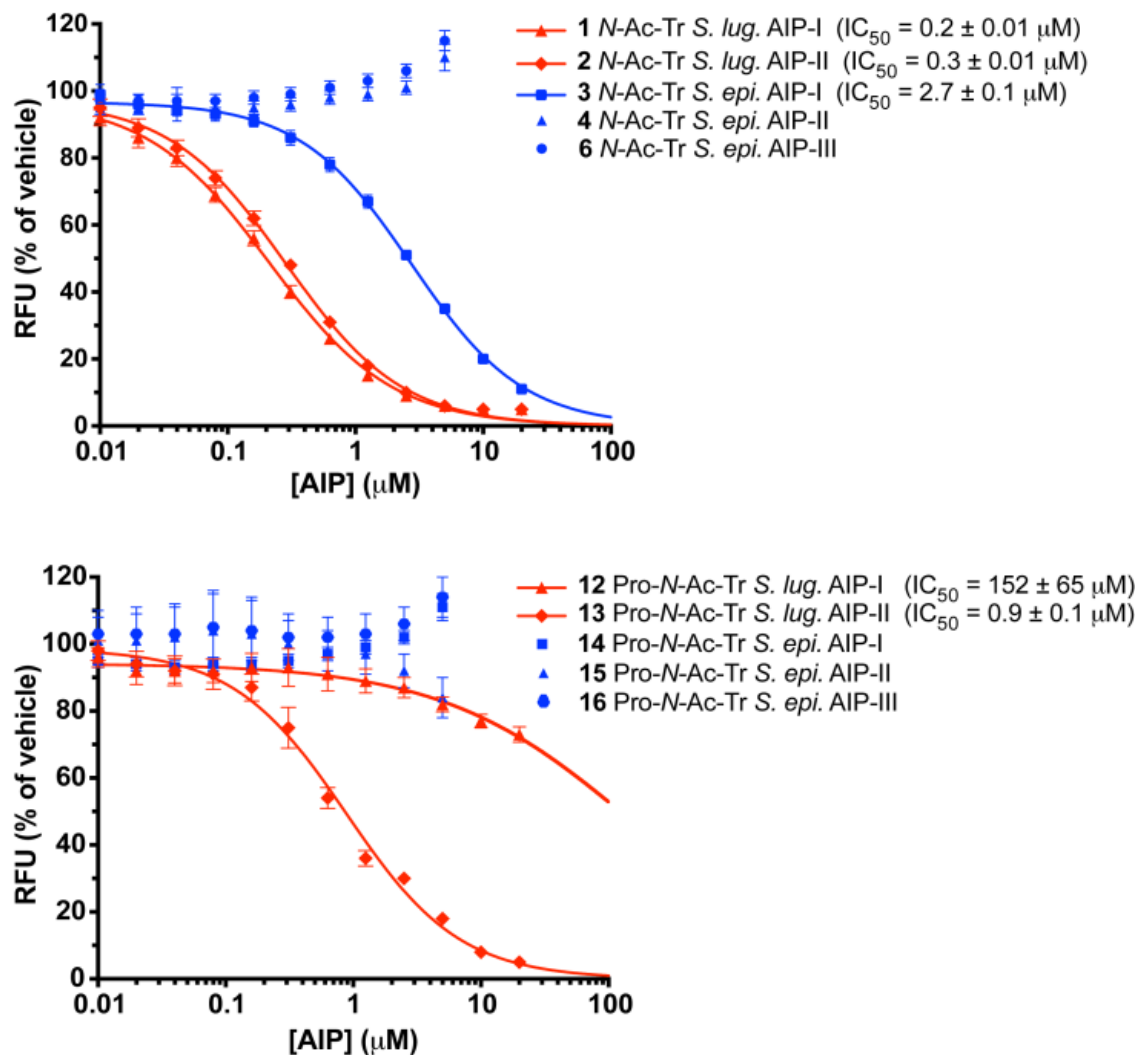


Figure 1. Dose-response curves and tabulated IC_{50} values for *N*-acetylated truncated analogues (A) and protected *N*-acetylated truncated analogues (B). Analogues based on *S. lugdunensis* and *S. epidermidis* AIP macrocycles are shown in red and blue, respectively. In cases where the data could be fit, the IC_{50} values are listed in the Figure key.

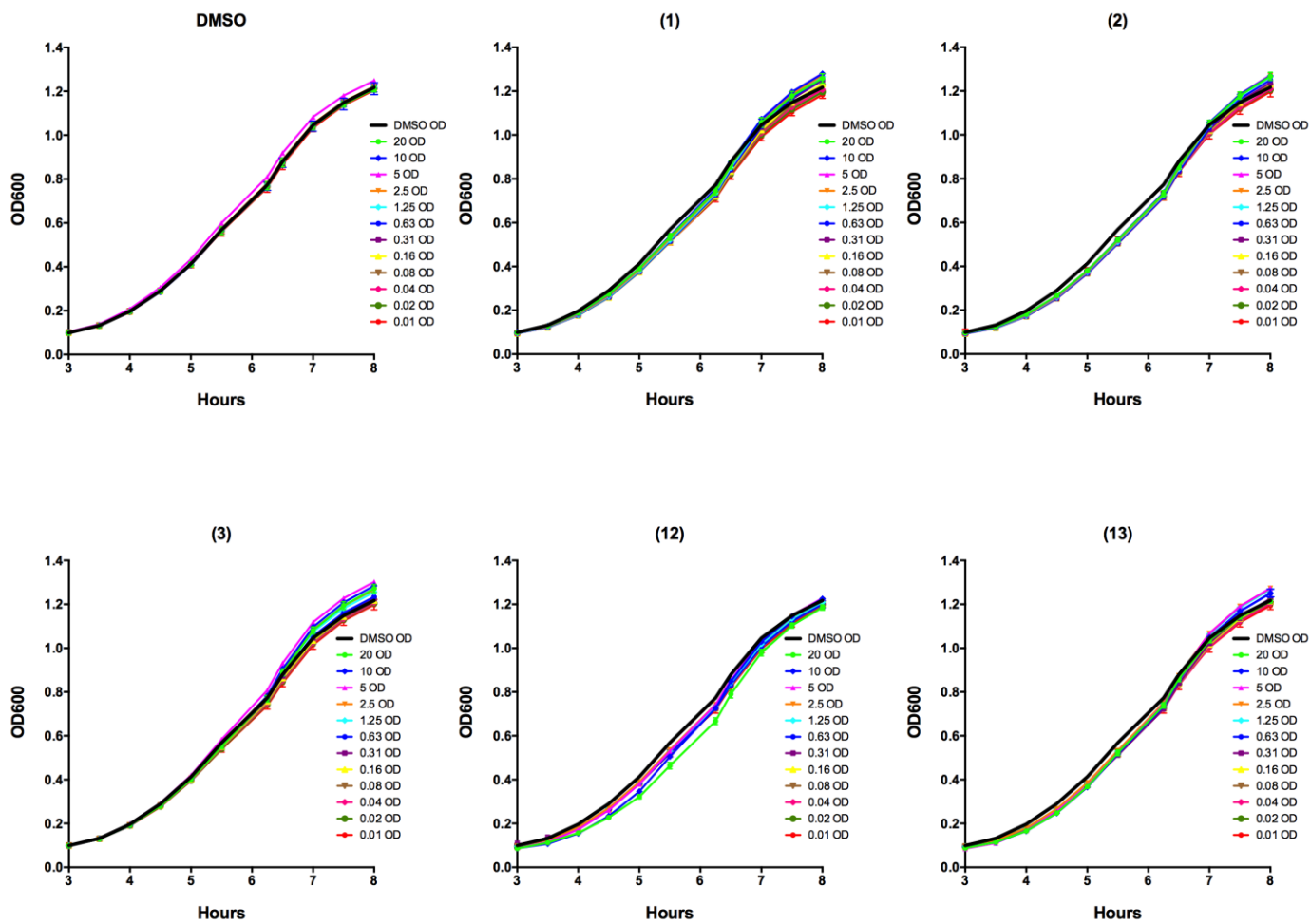


Figure 2. OD600 curve for DMSO control and curves for active compound 1 - 3, 12 and 13 which demonstrate that the compounds do not inhibit bacterial growth over an 8 hour period.

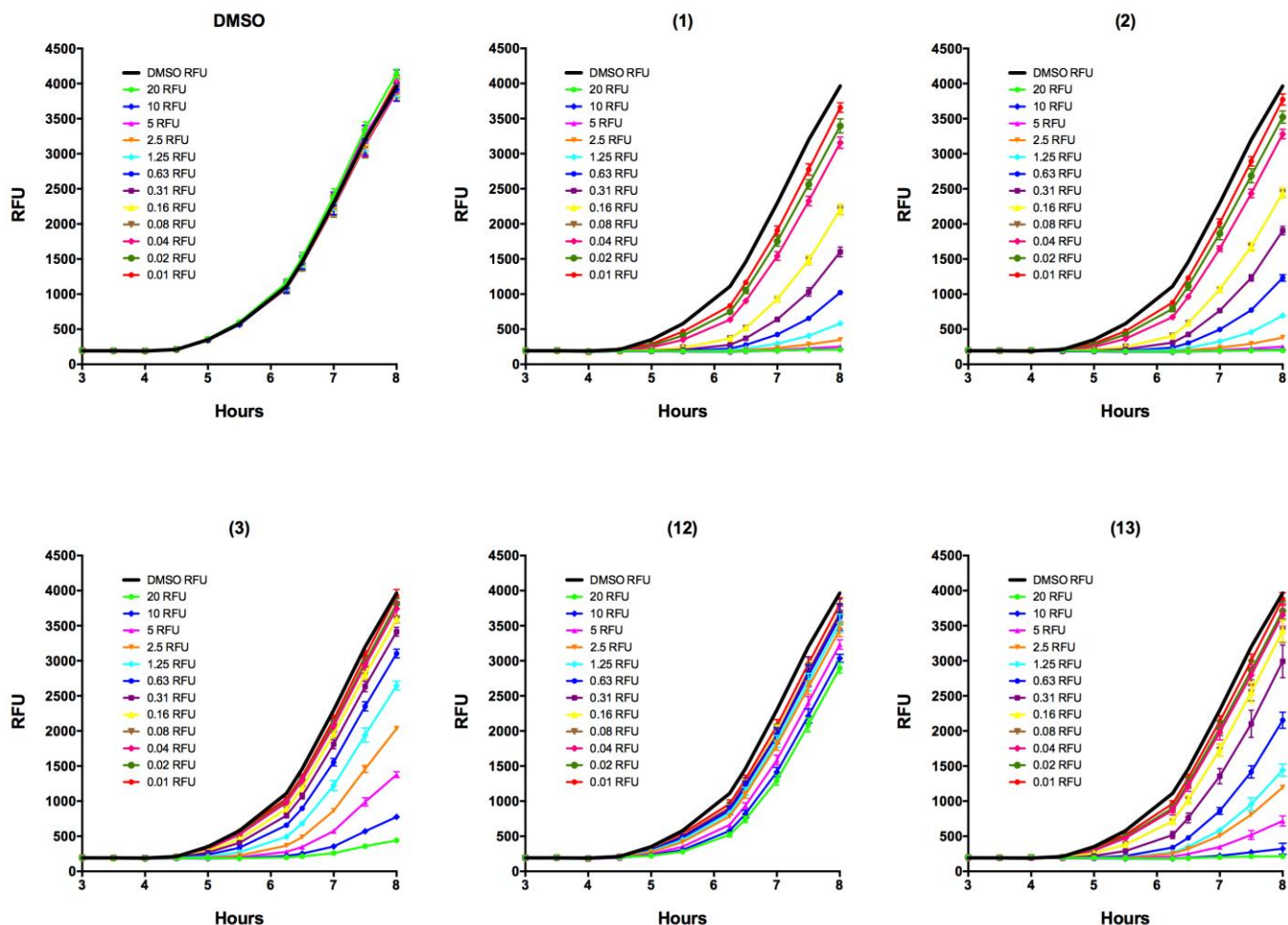


Figure 3: Relative fluorescence units (RFU) curve for a DMSO control and curves for active compound **1 - 3, 12** and **13** which demonstrate that the compounds do not inhibit bacterial growth over an 8 hour period.

In order to assess the ArgC inhibitory activity of the AIP analogues a *S. lugdunensis* I agr reporter strain, AH4031, was constructed by moving agrP3sGFP reporter plasmid pCM40¹ into *S. lugdunensis* strain N920143² using the electroporation protocol described by Heilbronner and colleagues.³ Prior to electroporation into *S. lugdunensis* N920143, pCM40 was passed through *E. coli* strain SL01B,³ which is engineered to express the specificity (HsdS) and methylation (HsdM) subunits of the *S. lugdunensis* N920143 type I restriction system.

Overnight cultures of AH4031, that were grown in Tryptic Soy Broth (TSB) supplemented with Cam at a concentration of 10 $\mu\text{g}/\text{mL}$, were inoculated at a dilution of 1:500 into fresh TSB containing Cam. 100 μL aliquots were added to 96-well microtiter plates (Costar 3603) and combined with 100 μL aliquots of TSB containing Cam and 2-fold serial dilutions (either 10 μM to 0.004 μM or 40 μM to 0.2 μM) of the AIP analogs (dissolved in DMSO). After mixing, the effective inoculum dilution was 1:1000 and the final AIP concentrations ranged from 5 μM to 0.002 μM or 20 μM to 0.1 μM , with a final DMSO concentration of 2% (v/v) in all wells. Four dilution series were prepared for each AIP, and 4 mock vehicle (DMSO) dilution series were also prepared. Microtiter plates were incubated at 37°C with shaking (1000 rpm) in a Stuart SI505 incubator (Bibby Scientific, Burlington, NJ) with a humidified chamber. Fluorescence (top reading, 493 nm excitation, 535 nm emission, gain 60) and

optical density (OD) readings at 600 nm were recorded at 30 min increments using a Tecan Systems (San Jose, CA) Infinite M200 plate reader. Data was transformed into units of percent of vehicle, and IC₅₀'s were obtained by subjecting the transformed fluorescent data from 8 hours of growth to four-parameter-logistic fits (4PL) using GraphPad Prism version 6.0g. In cases where the fluorescence at the highest AIP concentration tested was insufficient to fully inhibit quorum-sensing the bottom baseline was fixed at 0%.

Chemistry. General Methods. Chemicals and solvents were purchased from standard suppliers and used without further purification. Fmoc-protected amino acids were purchased for Auspep as was 2-chlorotriyl chloride resin (loading 1.5 mmol/g) and (2-(6-Chloro-1H-benzotriazole-1-yl)-1,1,3,3-tetramethylaminium hexafluorophosphate) (HCTU). Polymer-bound 1-(3-Dimethylaminopropyl)-3-ethylcarbodiimide and N-benzyl-N'-cyclohexylcarbodiimide were purchased from Sigma-Aldrich with respective loadings of $\approx 1 - 2$ mmol/g). The PS-carbodiimide was obtained from biotage (loading 1.27 mmol/g). All solvents were used as supplied (analytical, HPLC or peptide grade), without prior purification. Milli-Q water was used for chemical reactions. Deuterated DMSO-d₆ was purchased from Sigma Aldrich. Reactions were monitored by using analytical RP-HPLC and MS. Final compound purity was assessed *via* analytical HPLC will all biologically evaluated peptides of > 95 % purity.

Mass spectra (ES-TOF) were recorded on a Waters 2795 separation module/Micromass LCTTM platform. ¹H and ¹³C spectra were recorded at 25 °C on a Varian mercury 300 operating at 299.8 MHz and 75.4 MHz respectively. Chemical shifts (δ) are reported in parts per million (ppm), referenced to TMS (1H, 0.0 ppm). Coupling constants (*J*) are recorded in Hz and significant multiplicities described by singlet (s), doublet (d), doublet of doublets (dd), doublet of triplets (dt), triplet (t), quadruplet (q), broad (br), multiplet (m). Spectra were assigned using appropriate gCOSY sequences.

Analytical RP-HPLC was performed using a Waters instrument comprised of two 510 pumps, a 486 detector and Millennium™ software. The systems outlined below were used for purification and to confirm purity. Analytical RP-HPLC was performed using Phenomenex Onyx Monolithic reversed-phase C18 column (4.6 x 100 mm). Solvent A: 0.06% TFA in water and solvent B: 0.06% TFA in CH₃CN:H₂O (90:10), flow rate of 1.0 mL/min, gradient 10-100 (%B), curve = 6, over 15.0 mins, and detection at 216 nm and 254 nm (System 1).

Semi-preparative RP-HPLC was performed using a Waters 2525 binary gradient pump equipped with a water 2487 dual λ absorbance detector and a Chromolith®SemiPrep RP-18e 100-10 mm column. A flow rate of 10 mL/min was used with solvent A: 0.06% TFA in water and solvent B: 0.06% TFA in CH₃CN:H₂O (90:10). Gradient 10-75 (%B) over 15 mins, curve = 6, with UV detection at 216 nm and 254 nm.

General procedure 1: Fmoc-Phe-2-CITrt resin; 2-Chlorotritylchloride resin (100-200 mesh), 1% DVB (5.00 g, loading = 1.5 mmol/g) (Merck Chemicals Ltd. # 8.55017) was swelled in DCM (50.0 mL) for 0.5 h prior to the addition of 4.0 eq. of Fmoc-Phe-OH (11.62 g, 0.03 mol), and 8.0 eq. of DIPEA (10.45 mL, 0.06 mmol). The resulting suspension was gently stirred at rt for 2 h before MeOH (5.0 mL) was added. After an additional 20 mins of gentle stirring the resin was filtered and sequentially washed with DMF (2 × 50 mL), acetonitrile (2 × 50 mL), hexanes (2 × 50 mL), and DCM (2 × 50 mL). The resin was dried overnight under high vacuum and standard UV Fmoc quantification revealed a resin loading of 0.83 mmol/g (loading = 86 %).

Fmoc Loading Determination; Two samples of pre-loaded dried resin (~10.0 mg each) were each added to a vial containing a freshly prepared solution of 20% piperidine in DMF (3.00 mL). The resulting suspensions were gently agitated at rt for 2 h after which 300 µL of each resin suspension was transferred to a quartz UV cuvette and an additional 2.70 mL of 20% piperidine in DMF was added. A reference cell containing 3.00 mL of 20% piperidine was placed into a UV spectrophotometer and reference was set at 290 nm. The absorbance of the cuvettes containing the settled resin was then obtained (290 nm). The loading of the resin was then determined using the following equation (final loading = average of the two resin samples):

$$\text{Loading (mmol/g)} = [(\text{Abs}_{\text{sample}})/(\text{mg of sample} \times 1.75)] \times 10$$

Theoretical loading was determined using the following equation:

$$A = B \times 1000/[1000 + (B \times (M - X))]$$

A = theoretical substitution (mmol/g)

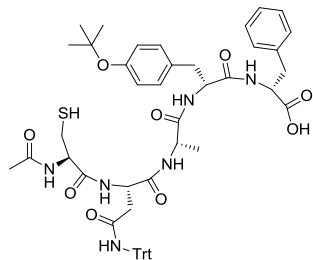
B = substitution of resin (mmol/g)

M = molecular weight of target peptide (with all protecting groups)

X = 36 (loss of Cl on amino acid loading)

Fmoc-Leu-2-CITrt resin; prepared utilising general procedure 1 with 2-Chlorotritylchloride resin (100-200 mesh), 1% DVB (5.00 g, loading = 1.5 mmol/g), 4.0 eq. of Fmoc-Leu-OH (10.60 g, 0.03 mol), and 8.0 eq. of DIPEA (10.45 mL, 0.06 mmol). Fmoc quantification revealed a resin loading of 1.07 mmol/g (loading = 94 %).

General Procedure 2, Compound 6. Fmoc-Phe-2-Chlorotrytylchloride resin (0.14 g, 0.12 mmol, loading = 0.83 mmol/g) was



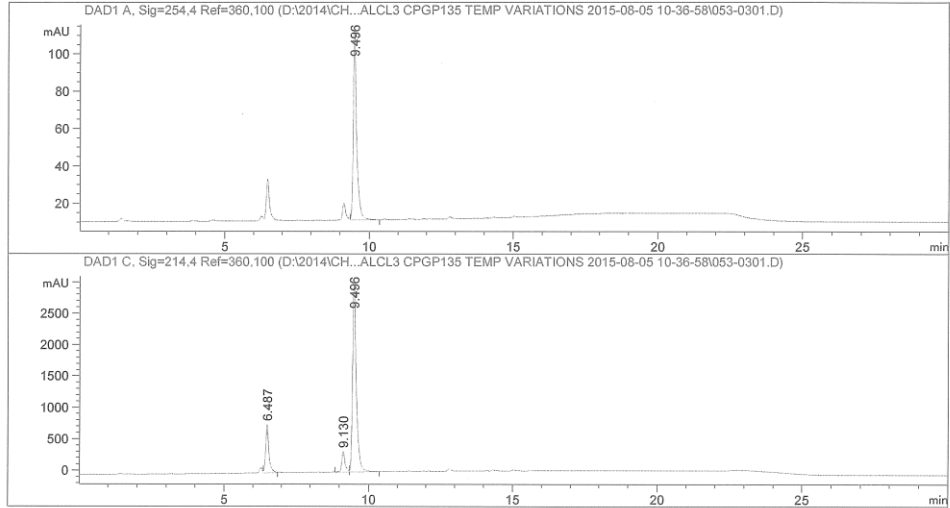
Chemical Formula: $C_{53}H_{60}N_6O_9S$
Exact Mass: 956.4142

placed in an Omnifit™ BenchMark™ column assembly and swelled with DMF (2.5 mL) for 0.5 h. Utilising a NovaSyn® manual peptide synthesizer Fmoc-deprotection and washing was achieved using 20% piperidine in DMF and DMF (2.8 mL/min) respectively. The column was drained and a solution of 4.0 eq. Fmoc-(tBu)Try-OH (0.22 g, 0.48 mmol), 4.0 eq. HCTU (0.19 g, 0.48 mmol), and 8.0 eq DIPEA (0.16 mL, 3.84 mmol) in DMF (1.5 mL) was added. The column was gently agitated at ~40 °C for 1 hour after which the resin was washed (DMF 2.8 mL/min), Fmoc-deprotected (20% piperidine in DMF 2.8 mL/min), and washed (DMF 2.8

mL/min). The remaining linear peptide sequence was prepared *via* subsequent rounds of acylation, washing (DMF 2.8 mL/min), Fmoc-deprotection (20% piperidine in DMF, 2.8 mL/min), and washing (DMF 2.8 mL/min). Each acylation was achieved using a solution of 4.0 eq. HCTU (0.19 g, 0.48 mmol), 8.0 eq DIPEA (0.16 mL, 3.84 mmol), DMF (1.5 mL) at ~40 °C over 1 hour and 4.0 eq. Fmoc-Ala-OH (0.14 g, 0.48 mmol), and 4.0 eq. Fmoc-(Trt)Asn-OH (0.28 g, 0.48 mmol), and Fmoc-(Mmt)Cys-OH (0.29 g, 0.48), respectively. The *N*-terminal Cys-amine was acetylated *via* addition of an acetic anhydride (0.27 mL, 2.94 mmol) DIPEA (0.51 mL, 2.94 mmol) solution. After 0.5 h the resin was washed with MeOH (2 × 5.0 mL), acetonitrile (2 × 5.0 mL), hexanes (2 × 5.0 mL), and DCM (2 × 5.0 mL) and dried *in vacuo*. Concurrent cleavage of the linear peptide from the resin and deprotection of the Cys(Mmt) protecting group was achieved *via* flushing the column with a TFA cocktail (10 × 2 mL, DCM:TFA:TIPS 96:2:2). The resulting solution was concerted *in vacuo* and the residual crude material was triturated with ice-cold ether (× 3) to furnish an off-white solid. MS (ESI⁺) *m/z* 957 (*M* + 1, 100 %) HRMS (ESI⁺) for $C_{53}H_{61}N_6O_9S$; calculated 957.4142, found, 957.4146; RP-HPLC Onyx Monolithic C18 100 × 4.6 mm, 40-100% B in 15 min, *t_R* 9.5 min.

Data File D:\2014\CH...POUNDS\ALCL3 CPGP135 TEMP VARIATIONS 2015-08-05 10-36-58\053-0301.D
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                                           Inj Volume: 10.000 µl
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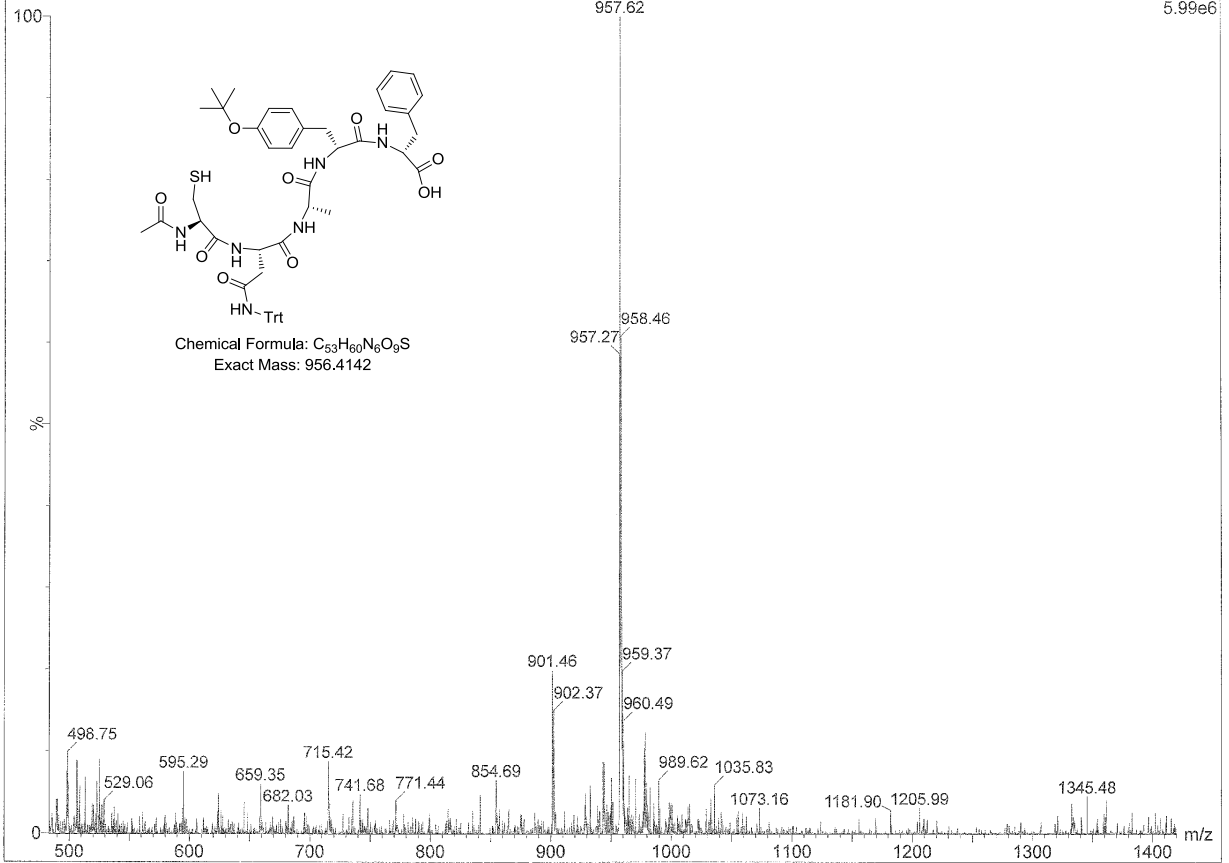
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Area Percent Report
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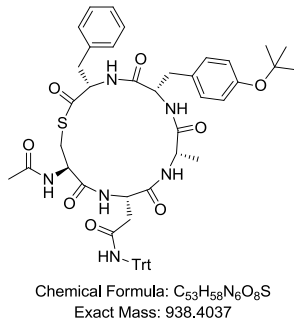
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20151209_Tr_S_Lug_AIP_I_Linear 87 (0.299) Sm (SG, 2x0.50); Cm (49:89)

1: MS2 ES+
5.99e6



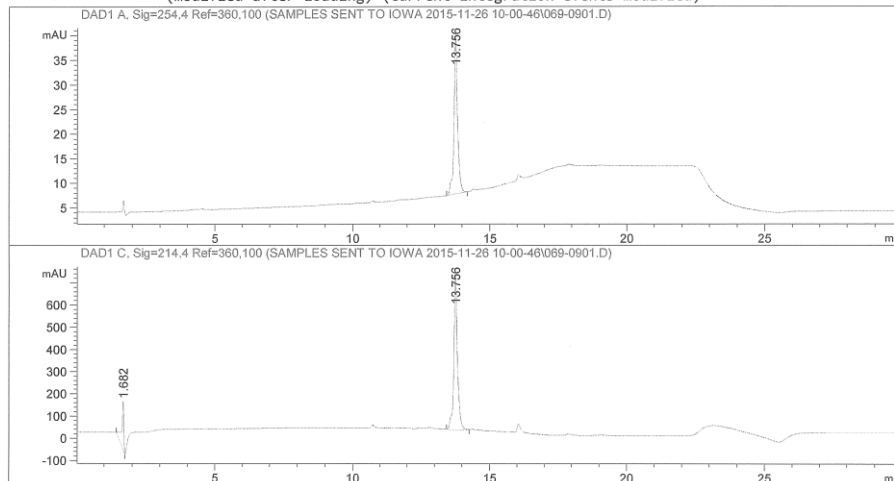
General Procedure 3 Compound 7; A suspension of the crude linear peptide and 3.0 eq. of PS-carbodiimide (0.28g, 0.36 mmol) and CH₃Cl (120 mL, 1.0 mM) was then stirred under an atmosphere of nitrogen for 5 h. After this period the solution was filtered, concentrated *in vacuo*, purified *via* semi-preparative RP-HPLC, and lyophilised to afford **7** (12 mg, 10.6 %). (*Note; 3 mg of this sample was collect for biological analysis*) MS (ESI⁺) for C₅₃H₅₉N₆O₈S; *m/z* 939.29 (M + 1, 100 %); HRMS (ESI⁺) for C₅₃H₅₉N₆O₈S; calculated 939.4037, found, 939.4042; RP-HPLC Onyx Monolithic C18 100 × 4.6 mm, 10-100% B in 15 min, *t_R* 13.75 min.



Data File C:\CHEM32\1\DATA\SAMPLES SENT TO IOWA 2015-11-26 10-00-46\069-0901.D
Sample Name: Pro S lug AIP I cyclised

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Area Percent Report
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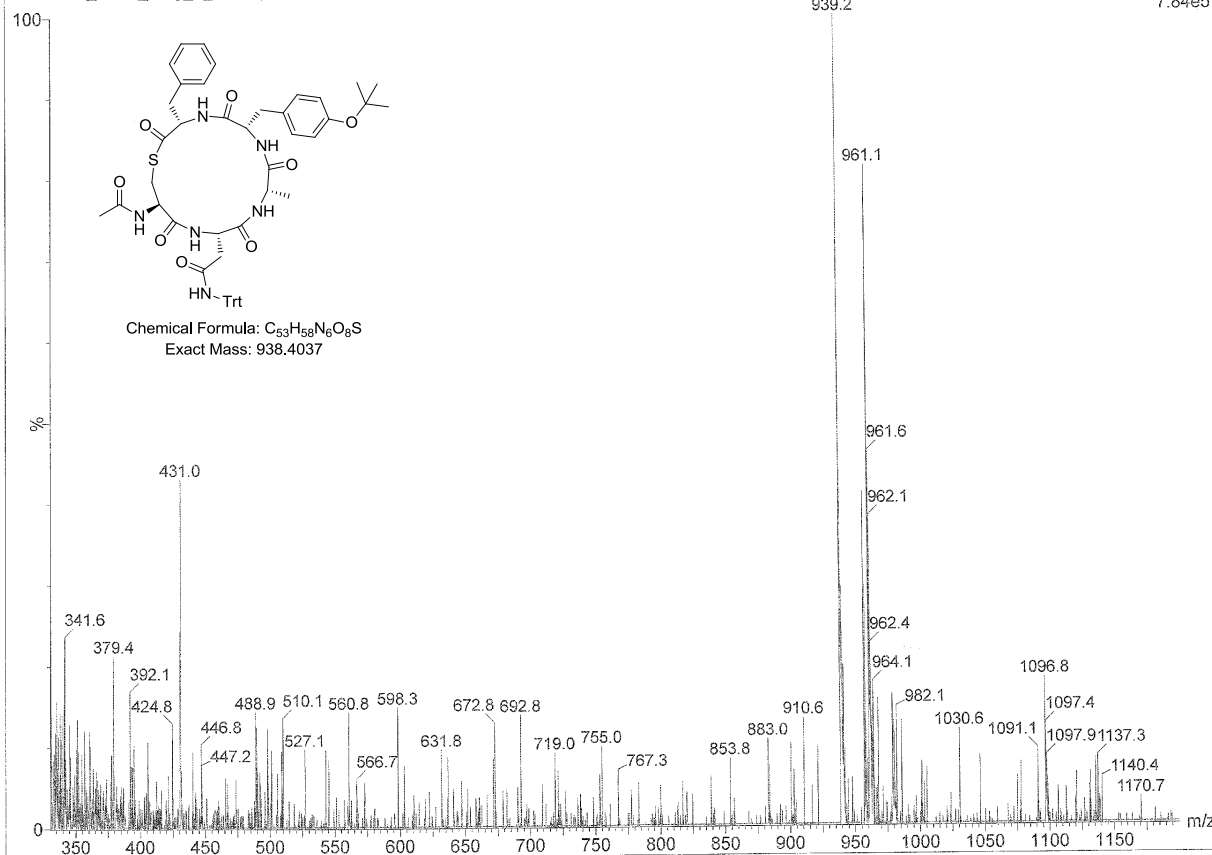
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Dilution       : 1.0000
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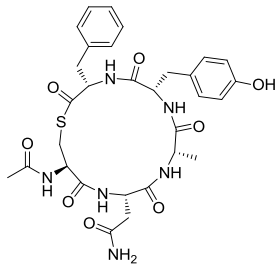
Off HPLC

20150806_Chris_Slug_1_2 55 (0.189) Sm (SG, 2x0.50); Cm (36.92)

1: MS2 ES+
7.84e5



General Procedure 4; Compound 1; A solution of a TFA (10.0 mL), TIPS (0.25 mL), H₂O (0.25 mL), and **7** (9 mg, 0.009



Chemical Formula: C₃₀H₃₆N₆O₈S
Exact Mass: 640.2315

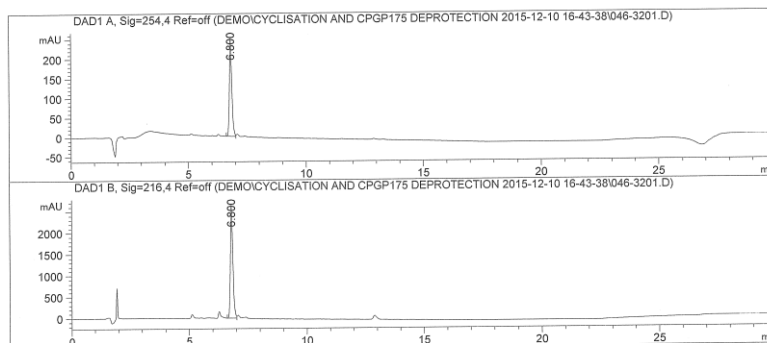
mmol) was stirred at rt for 6 h. The resulting mixture was concentrated *in vacuo* and the residual crude material was triturated with ice-cold ether (× 3) to furnish an off-white solid. The crude material was purified by *via* semi-preparative RP-HPLC to afford compound **1** (5.2 mg, 85%) as a white solid. MS (ESI⁺) for C₃₀H₃₇N₆O₈S *m/z* 641.56 (M + 1, 100%); HRMS (ESI⁺); calculated 641.2315, found 641.2309. RP-HPLC Onyx Monolithic C18 100 × 4.6 mm, 10-100% B in 15 min, *t*_R 6.08 min. ¹H NMR (300 MHz, DMSO) δ 9.13 (s, 1H), 8.27 (d, *J* = 7.6 Hz, 1H), 8.10 (d, *J* = 7.7 Hz, 1H), 7.95 (d, *J* = 7.8 Hz, 1H), 7.93 – 7.88 (m, 2H), 7.43 (s, 1H), 7.30 – 7.14 (m, 5H), 6.98 (d, *J* = 8.4 Hz, 3H), 6.60 (d, *J* = 8.4 Hz, 2H), 4.49 (q, *J* = 6.7 Hz, 1H), 4.42 – 4.27 (m, 3H), 4.15 – 4.02 (m, 1H), 3.05 (d, *J* = 5.9 Hz, 1H), 3.00 (d, *J* = 5.8 Hz, 1H), 2.95 – 2.79 (m, 3H), 2.79 – 2.50 (m, 5H), 2.46 – 2.38 (m, 1H), 2.30 (t, *J* = 8.4 Hz, 1H), 1.84 (d, *J* = 3.4 Hz, 3H), 1.07 (d, *J* = 7.1 Hz, 3H). ¹³C NMR (75 MHz, DMSO) δ 172.98, 172.35, 172.23, 172.04, 171.38, 171.09, 170.95, 170.32, 170.12, 156.09, 137.77, 130.52, 129.55, 128.64, 128.35, 126.87, 115.27, 55.51, 54.63, 53.97, 50.26, 49.14, 37.29, 37.19, 36.72, 26.57, 22.92, 18.23.

Data File C:\CHEM32\...CYCLISATION AND CPGP175 DEPROTECTION 2015-12-10 16-43-38\046-3201.D
Sample Name: Tr S lug AIP I

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                                           Inj Volume: 100.000 µl
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Area Percent Report
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Dilution:      :      1.0000
Use Multiplier & Dilution Factor with ISTDs

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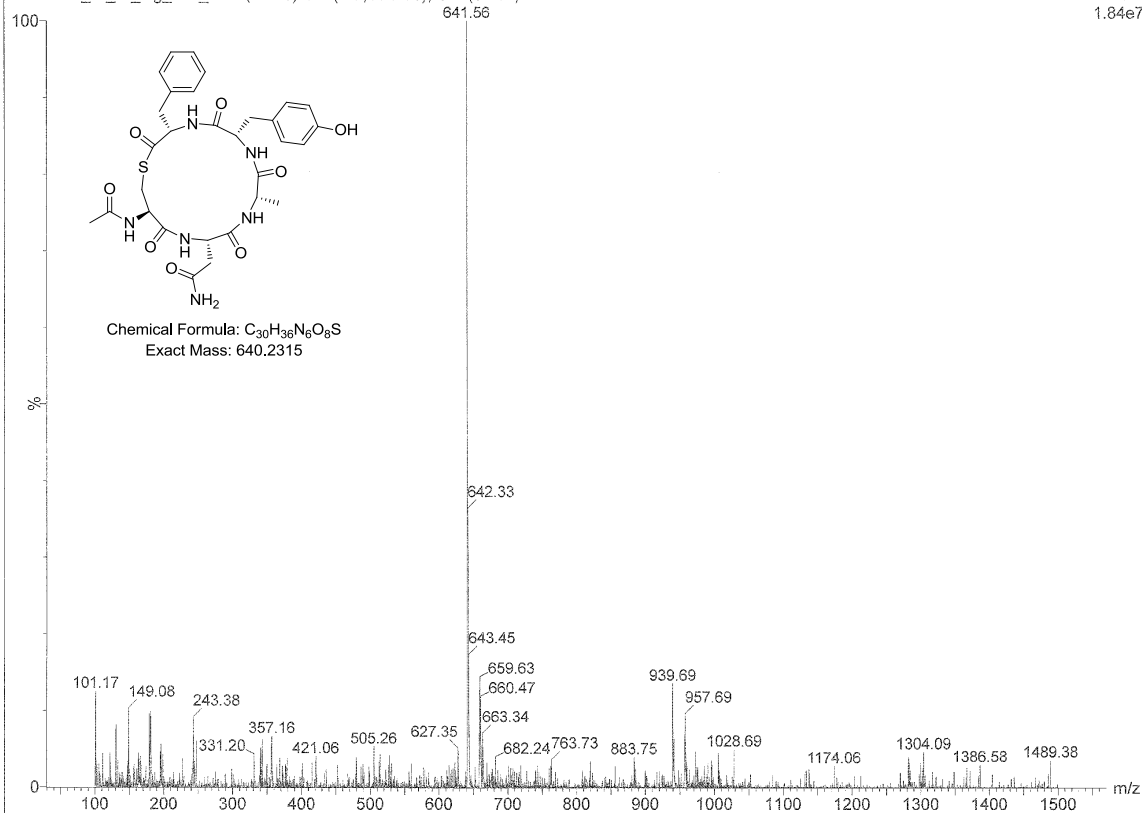
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Totals :				1785.58350	251.35371	

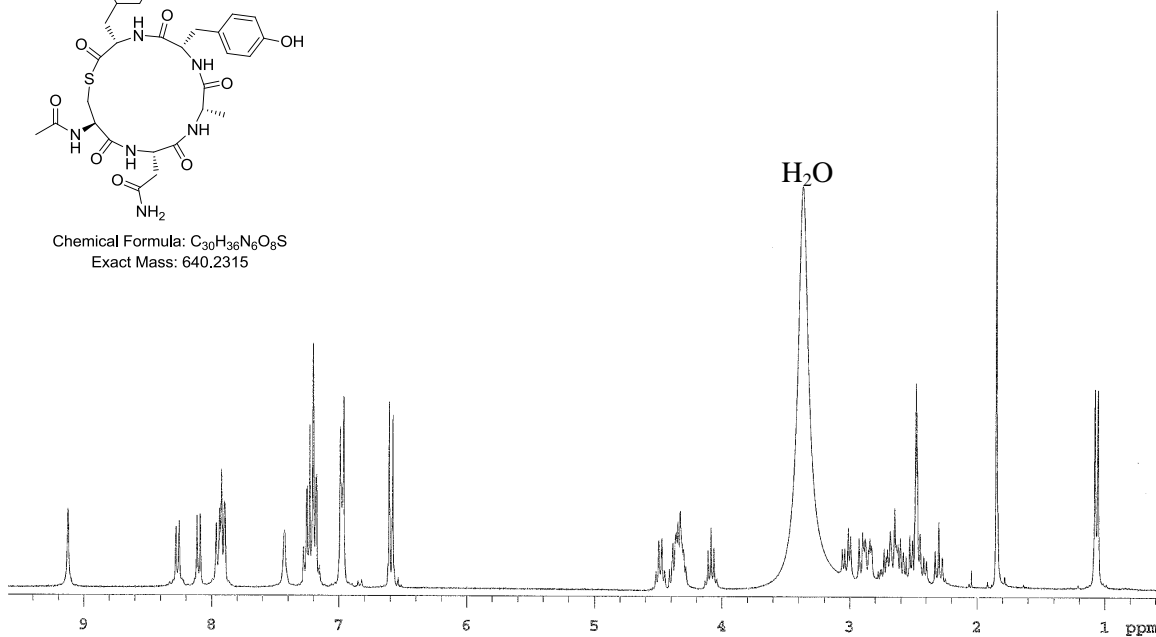
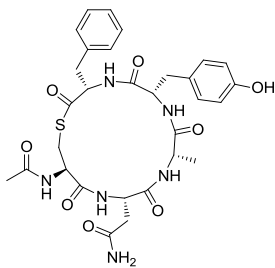
Signal 2: DAD1 B, Sig=216,4 Ref=off

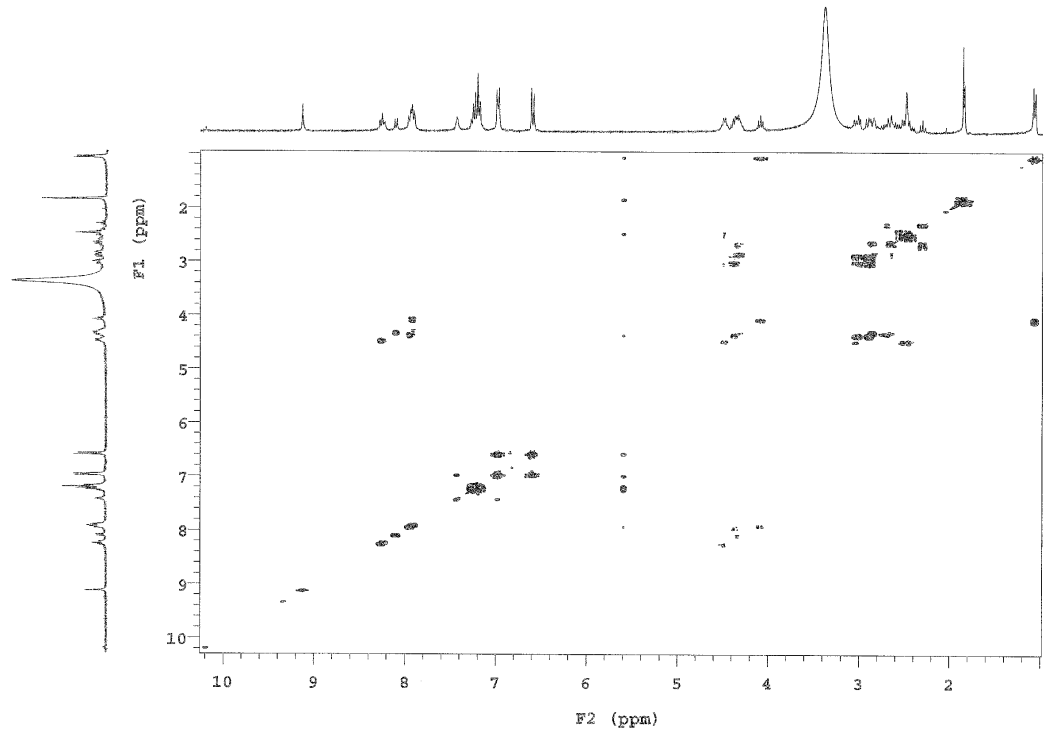
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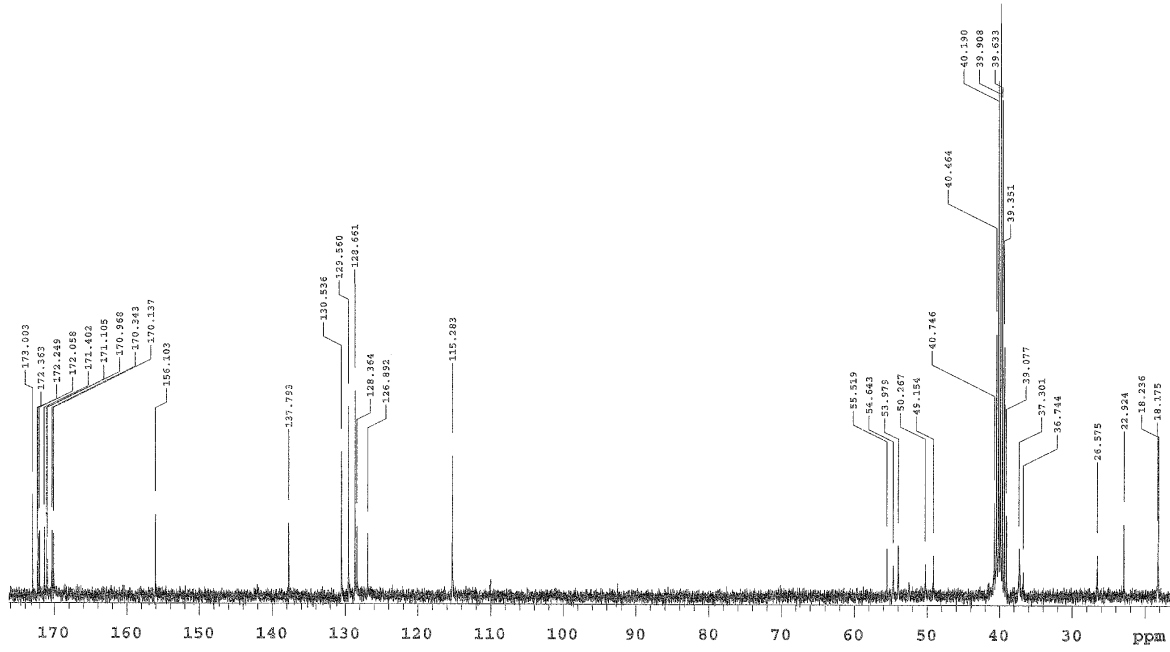
20151209_Tr_S_lug_AIP_1 81 (0.278) Sm (SG, 2x0.50); Cm (64:81)

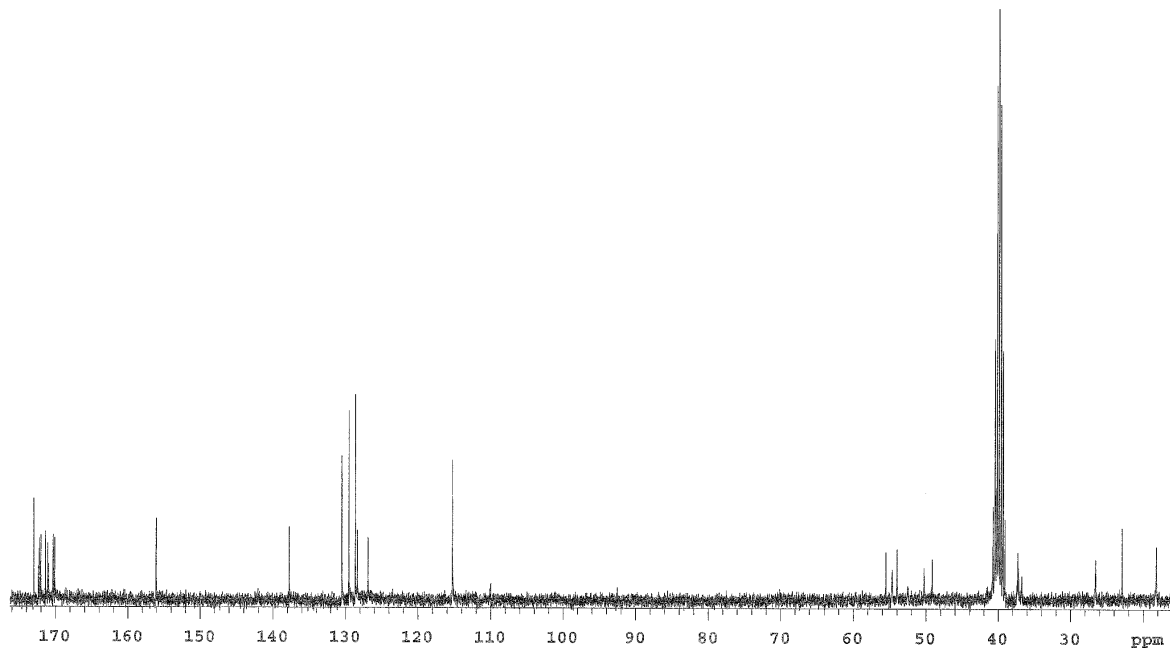
1: MS2 ES+
1.84e7



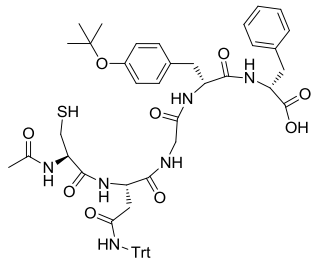








Compounds 11 & 2; The linear sequence required for **compound 11** was prepared using general procedure 2. The residual crude material was triturated with ice-cold ether ($\times 3$) to furnish an off-white solid. MS (ESI⁺) for C₅₂H₅₉N₆O₉S; calculated 943.40, found, 943.51. RP-HPLC Onyx Monolithic C18 100 \times 4.6 mm, 40-100% B in 15 min, *t*_R 9.1 min.

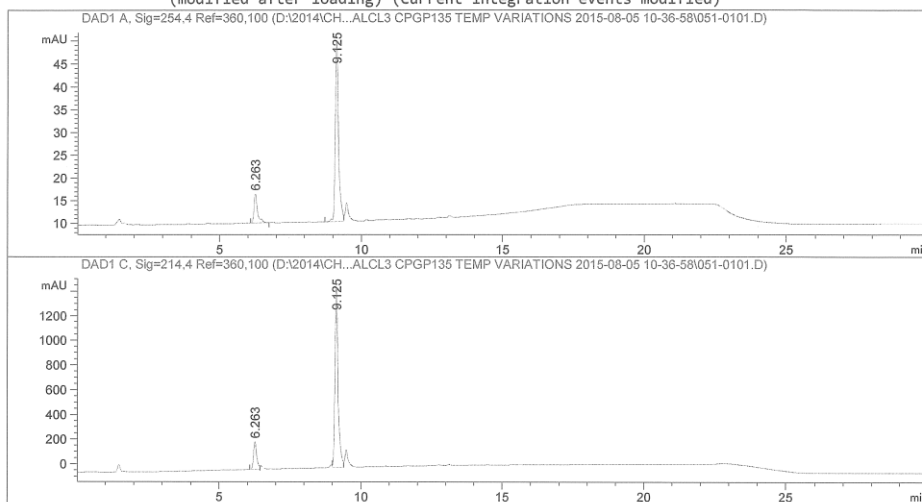


Chemical Formula: C₅₂H₅₉N₆O₉S
Exact Mass: 942.3986

Data File D:\2014\CH...POUNDS\ALCL3 CPGP135 TEMP VARIATIONS 2015-08-05 10-36-58\051-0101.D
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Last changed   : 8/5/2015 10:36:58 AM by SYSTEM
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Fraction Information
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No Fractions found.
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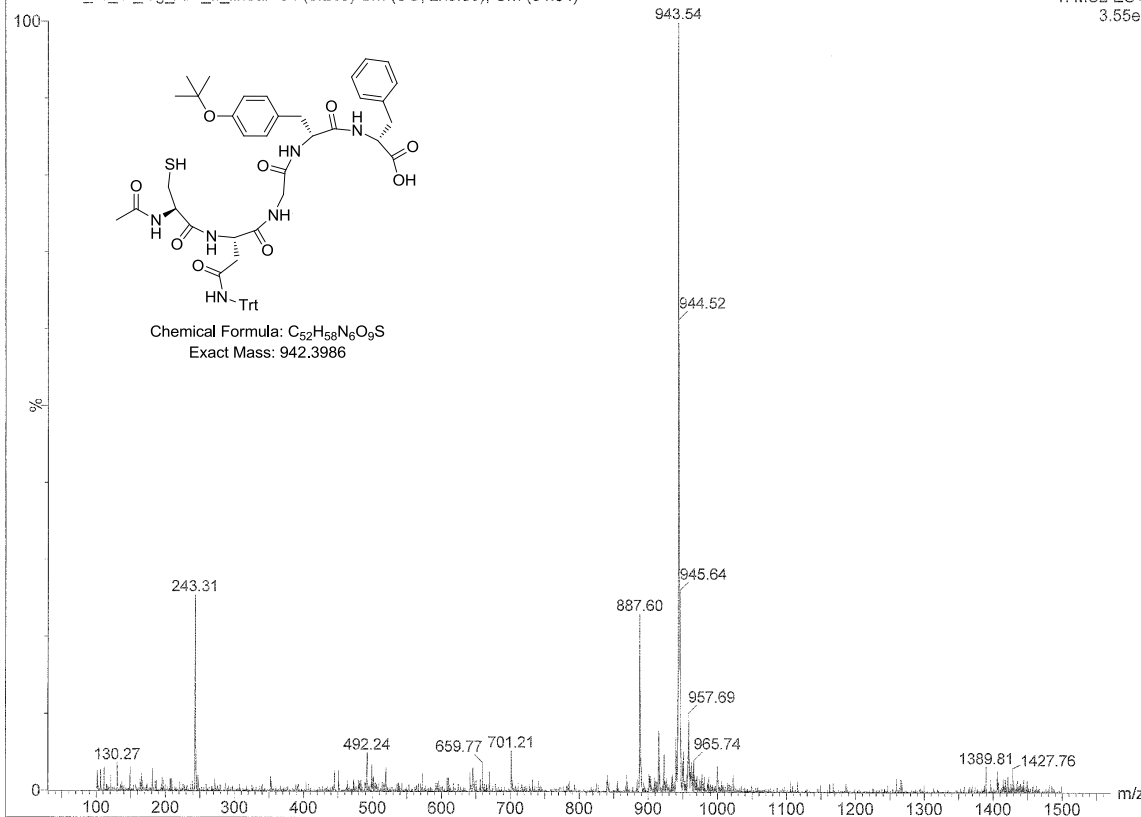
=====
Area Percent Report
=====

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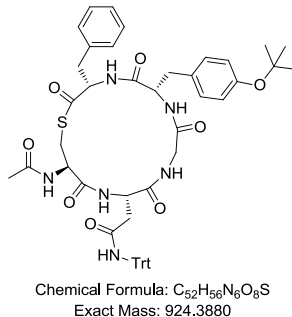
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
Use Multiplier & Dilution Factor with ISTDs
    
```

Signal 1: DAD1 A, Sig=254,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	6.263	BB	0.1276	55.50295	6.37214	15.1200
2	9.125	BV	0.1160	311.57983	39.52258	84.8800



Compound 11; Compound **11** was synthesised utilizing general produce 3. The crude material was purified *via* semi-preparative RP-HPLC, and lyophilised to afford **11** (15 mg, 13.5 %). (*Note*; 3 mg of this sample was collect for biological analysis) MS (ESI⁺) for C₅₂H₅₇N₆O₈S m/z 925.2 (M + 1, 100%); HRMS (ESI⁺); calculated 925.3880, found, 925.3497. RP-HPLC Onyx Monolithic C18 100 × 4.6 mm, 10-100% B in 15 min, t_R 13.03 min.

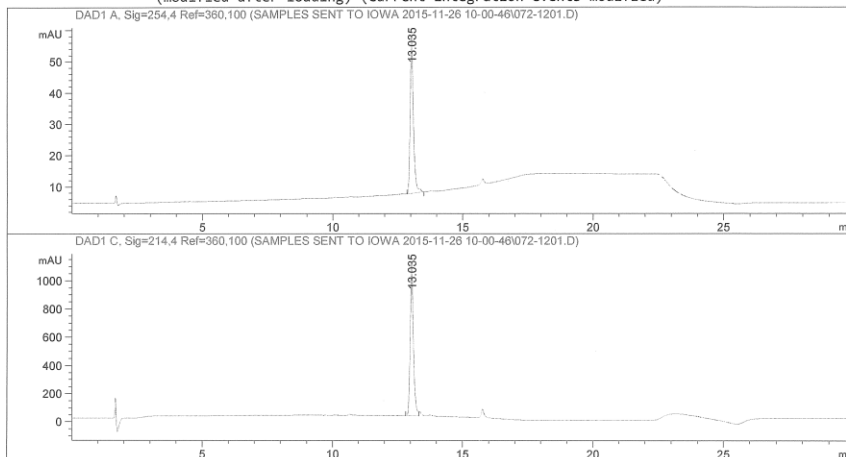


Data File C:\CHEM32\1\DATA\SAMPLES SENT TO IOWA 2015-11-26 10-00-46\072-1201.D
Sample Name: Pro S lug AIP II cyclised

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :   12
Acq. Instrument : LC1260                      Location  : Vial 72
Injection Date  : 11/26/2015 3:49:03 PM       Inj       :    1
                                           Inj Volume: 20.000 µl

Acq. Method    : C:\CHEM32\1\DATA\SAMPLES SENT TO IOWA 2015-11-26 10-00-46\10 TO 100 OVER 15
                                           MINS 20UL.M
Last changed   : 11/26/2015 10:00:46 AM by SYSTEM
Analysis Method : C:\CHEM32\1\DATA\SAMPLES SENT TO IOWA 2015-11-26 10-00-46\10 TO 100 OVER 15
                                           MINS 20UL.M (Sequence Method)
Last changed   : 12/1/2015 10:41:51 AM by SYSTEM
                                           (modified after loading) (Current integration events modified)
  
```



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Fraction Information
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No Fractions found.

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Area Percent Report
=====

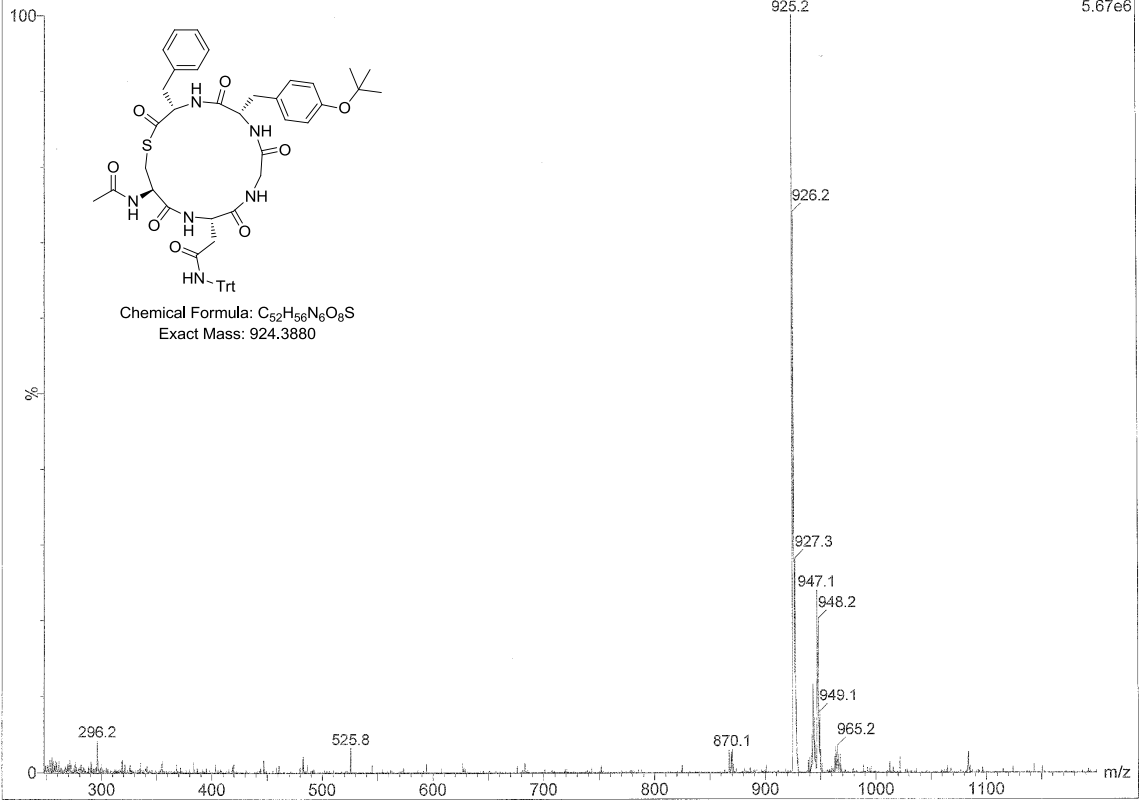
```

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

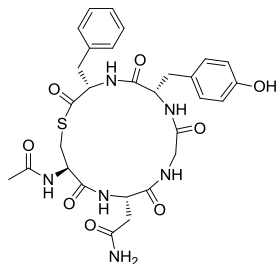
Off HPLC

20150806_Chris_Slug_2_2 59 (0.203) Sm (SG, 2x0.50); Cm (37:100)

1: MS2 ES+
5.67e6



Compound 2; Compound 2 was prepared utilizing general procedure 4 with compound 11. The crude material was purified *via*



Chemical Formula: C₂₉H₃₄N₆O₈S
Exact Mass: 626.2159

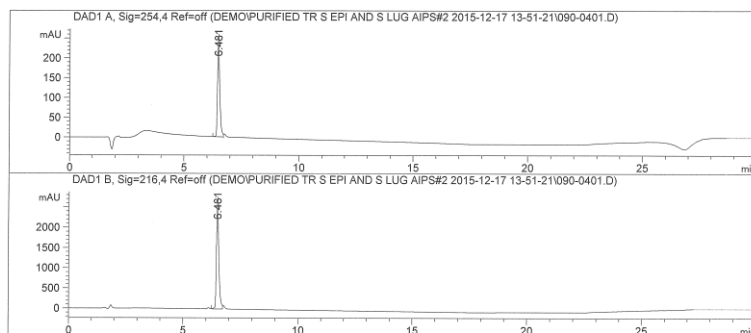
semi-preparative RP-HPLC, and lyophilised to afford 2 (7.2 mg, 88.5 %). MS (ESI⁺) for C₅₂H₅₇N₆O₈S, *m/z* 627.2 (M + 1, 100%); HRMS (ESI⁺); calculated 627.2159, found, 627.2204. RP-HPLC Onyx Monolithic C18 100 × 4.6 mm, 10-100% B in 15 min, *t_R* 6.48 min. ¹H NMR (300 MHz, DMSO) δ 9.12 (s, 1H), 8.28 (d, *J* = 7.5 Hz, 1H), 8.17 (d, *J* = 7.8 Hz, 1H), 8.09 (d, *J* = 7.8 Hz, 1H), 7.97 (t, *J* = 5.5 Hz, 1H), 7.89 (d, *J* = 8.6 Hz, 1H), 7.39 (s, 1H), 7.28 – 7.16 (m, 5H), 6.98 (d, *J* = 8.5 Hz, 2H), 6.59 (d, *J* = 8.5 Hz, 2H), 4.47 (dd, *J* = 13.6, 7.0 Hz, 1H), 4.42 – 4.30 (m, 3H), 3.58 (t, *J* = 5.9 Hz, 2H), 3.06 (d, *J* = 5.5 Hz, 1H), 3.01 (d, *J* = 5.4 Hz, 1H), 2.92 (d, *J* = 8.7 Hz, 1H), 2.89 – 2.52 (m, 7H), 2.43 (d, *J* = 7.0 Hz, 1H), 2.29 (t, *J* = 8.5 Hz, 1H), 1.85 (s, 3H). ¹³C NMR (75 MHz, DMSO) δ 173.08, 172.07, 171.57, 171.46, 170.44, 170.15, 168.63, 156.09, 137.84, 130.55, 129.54, 128.65, 128.35, 126.89, 115.28, 55.50, 54.54, 54.51, 54.00, 50.39, 42.41, 37.26, 37.14, 37.04, 26.49, 22.92.

Data File C:\CHEM32\...\O\PURIFIED TR S EPI AND S LUG AIPS#2 2015-12-17 13-51-21\090-0401.D
Sample Name: Tr S lug AIP II 6.4 min

```

=====
Acq. Operator   : Simil20102015                      Seq. Line :    4
Acq. Instrument : LC1260                            Location  : Vial 90
Injection Date  : 12/17/2015 3:28:30 PM              Inj       :    1
                                           Inj Volume: 100.000 µl
Acq. Method     : C:\CHEM32\1\DATA\DEMO\PURIFIED TR S EPI AND S LUG AIPS#2 2015-12-17 13-
51-21\10 TO 100 OV 15MIN 100UL.M
Last changed    : 12/10/2015 4:12:03 PM by Simil20102015
Analysis Method : C:\CHEM32\1\DATA\DEMO\PURIFIED TR S EPI AND S LUG AIPS 2016-01-05 09-
33-14\10 TO 100 OV 15MIN 20UL.M
Last changed    : 1/6/2016 1:51:31 PM by Simil20102015
                  (modified after loading) (Current integration events modified)
=====

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Area Percent Report
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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	6.481	BV	0.1004	1733.96338	257.95151	100.0000

Totals : 1733.96338 257.95151

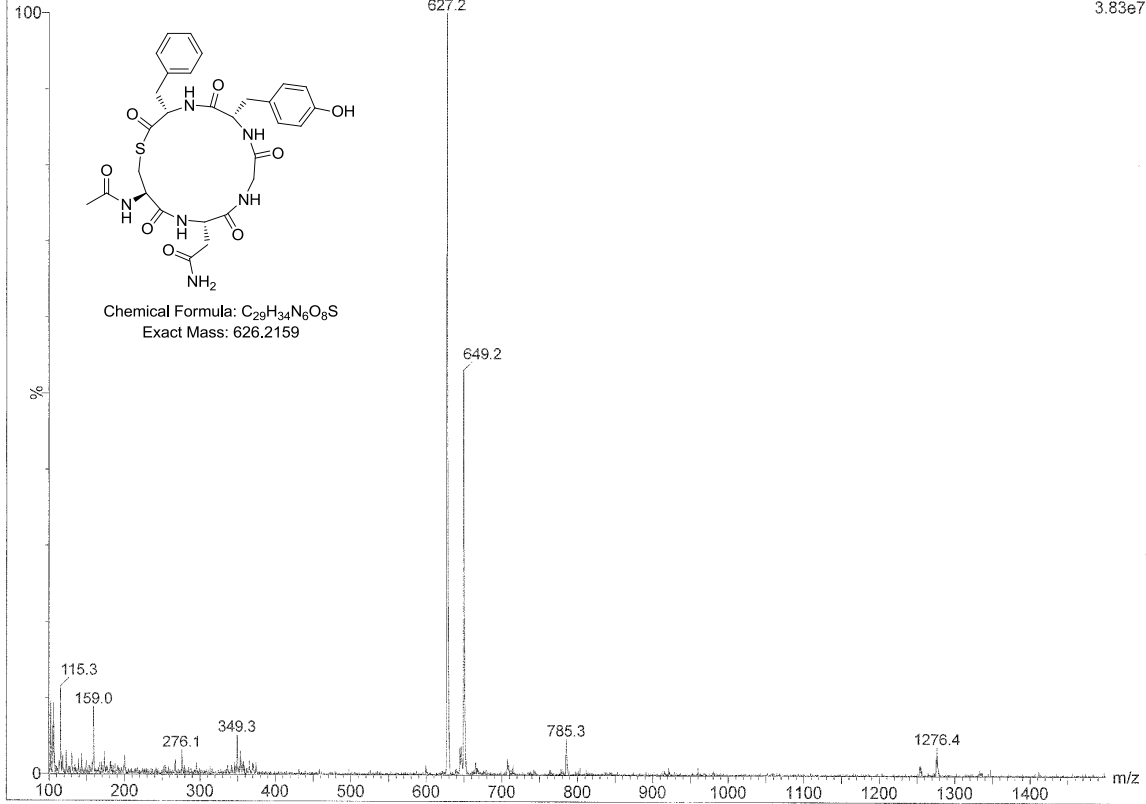
Signal 2: DAD1 B, Sig=216,4 Ref=off

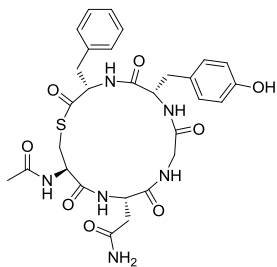
Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	6.481	VV	0.1084	1.99227e4	2753.27295	100.0000

From vial

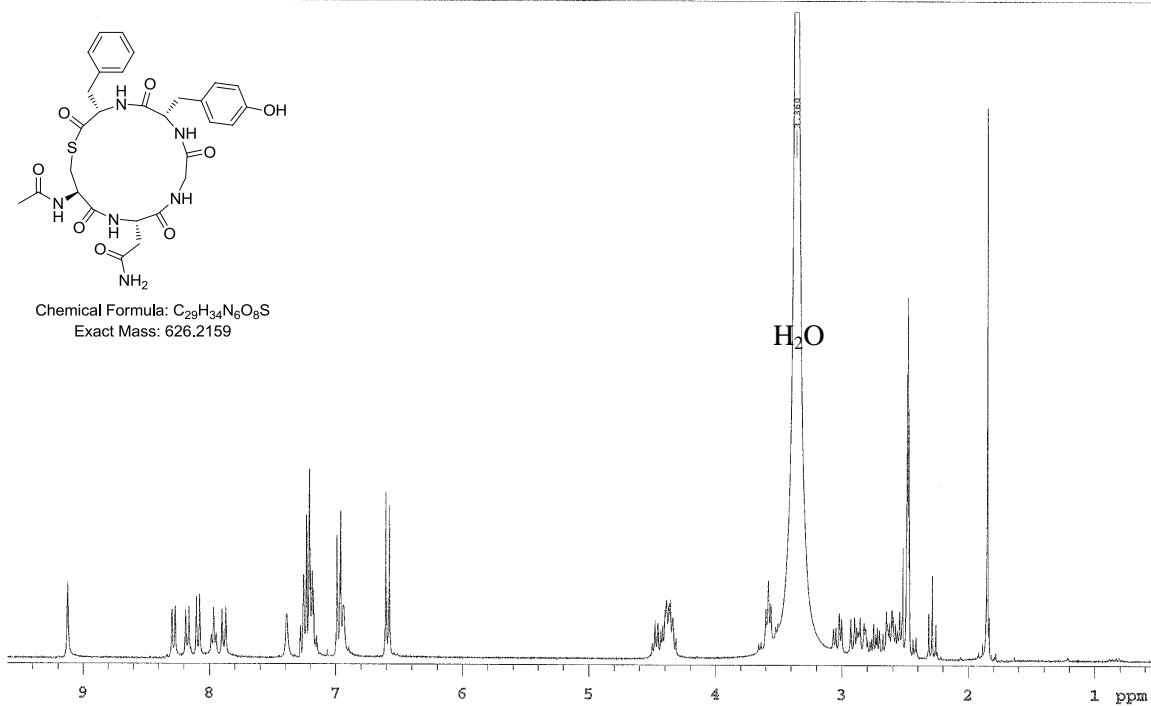
20150909_ChrisGordon_SlugAlPlla 107 (0.368) Sm (SG, 2x0.50); Cm (78:162)

1: MS2 ES+
3.83e7





Chemical Formula: C₂₆H₃₄N₆O₈S
Exact Mass: 626.2159



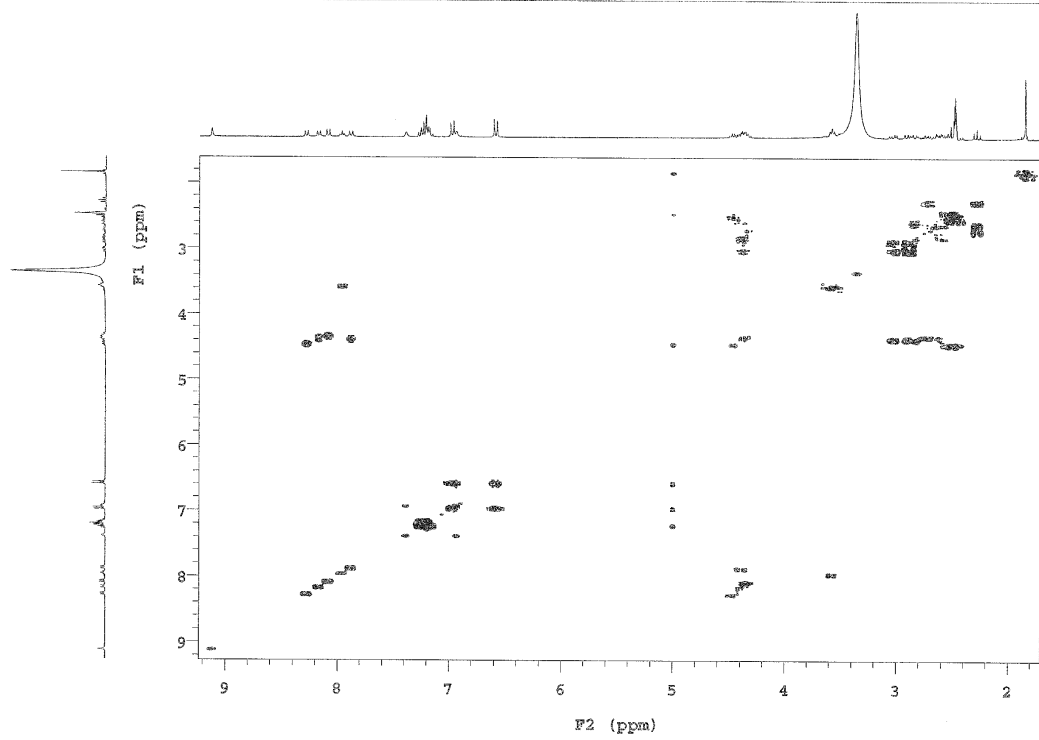
tr_S_Lug_AIPIL_gCOSY

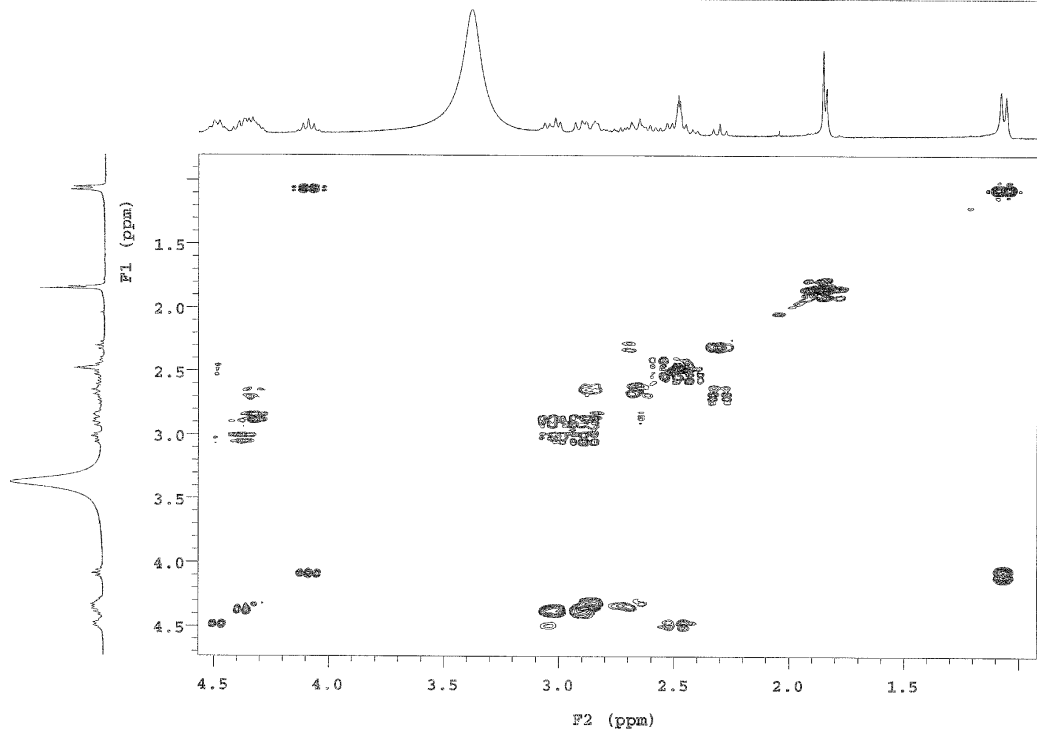
Sample Name tr_S_Lug_AIPIL_gCOSY
Date collected 2016-03-10

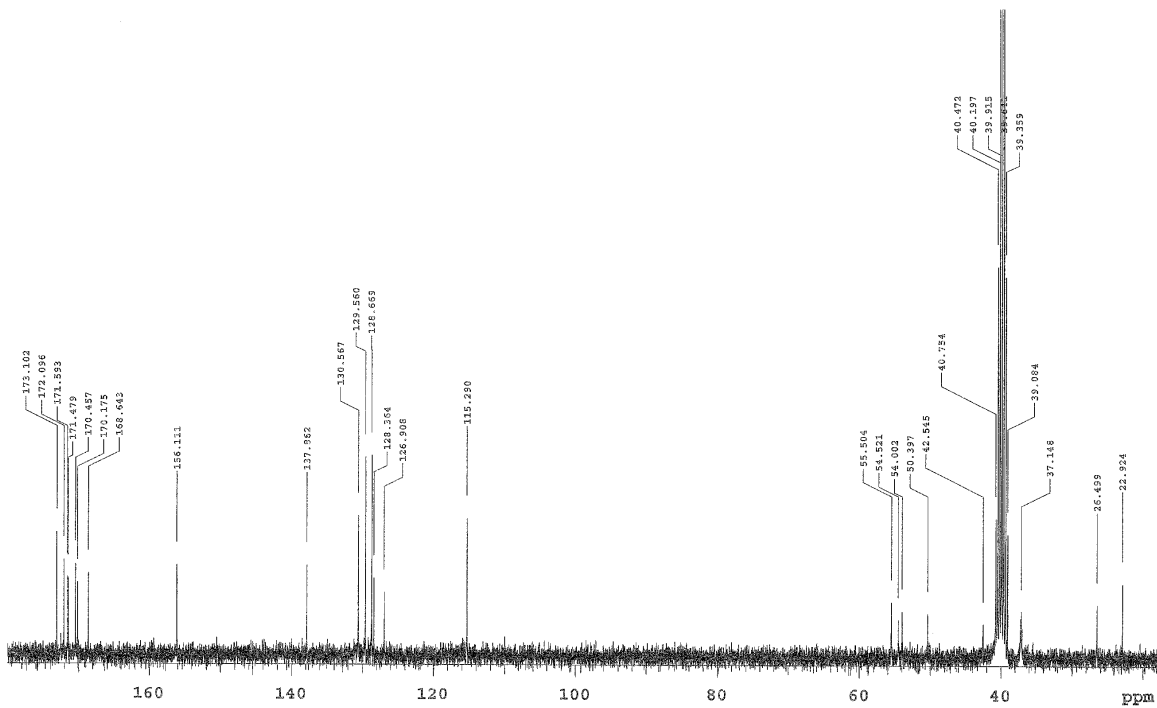
Pulse sequence gCOSY
Solvent dmsc

Temperature 25
Spectrometer uwsm300.uws.edu.au-mercury300

Study owner nmr300
Operator nmr300







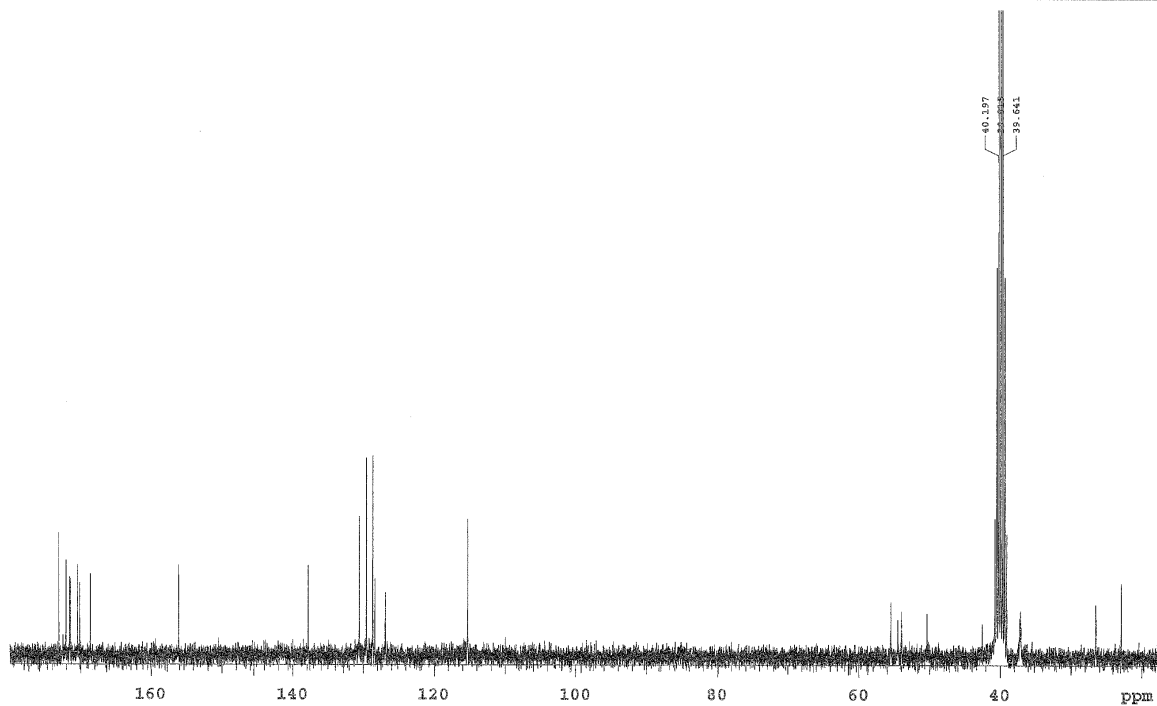
tr_S_Lug_AIFil_C13

Sample Name tr_S_Lug_AIFil_C13
Date collected 2016-03-10

Pulse sequence CARBON
Solvent dmsc

Temperature 25
Spectrometer uwsm300.tva.edu.au-mercury300

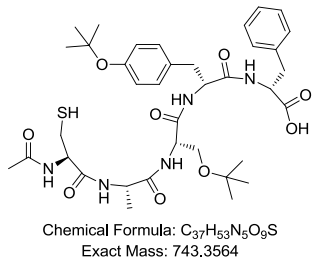
Study owner nmr300
nmr300



Data file /home/nmr300/nmr/sys/data/CcpData/tr_S_Lug_AIFil_C13.fid

Plot date 2016-03-05

Compounds 12 & 3; The linear sequence required for 12 was prepared using general procedure 2. The residual crude material was triturated with ice-cold ether ($\times 3$) to furnish an off-white solid. MS (ESI⁺) for C₃₇H₅₄N₅O₉S; calculated 744.35, found, 744.55. RP-HPLC Onyx Monolithic C18 100 \times 4.6 mm, 10-100% B in 15 min, t_R 10.28 min.

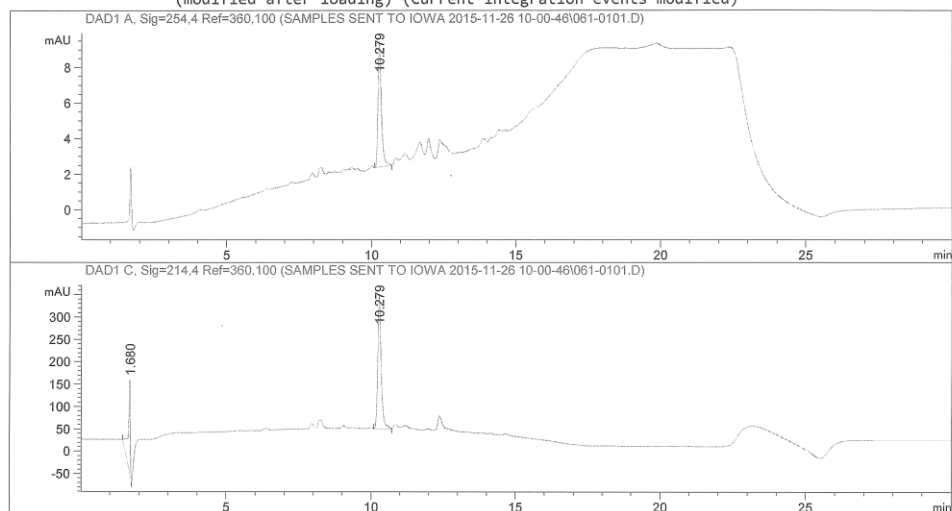


Data File C:\CHEM32\1\DATA\SAMPLES SENT TO IOWA 2015-11-26 10-00-46\061-0101.D
Sample Name: S epi AIP I linear

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=====
Acq. Operator   : SYSTEM                      Seq. Line :    1
Acq. Instrument : LC1260                     Location  : Vial 61
Injection Date  : 11/26/2015 10:02:13 AM      Inj       :    1
                                           Inj Volume: 20.000 µl
Method          : C:\CHEM32\1\DATA\SAMPLES SENT TO IOWA 2015-11-26 10-00-46\10 TO 100 OVER 15
                                           MINS 20UL.M (Sequence Method)
Last changed    : 11/26/2015 10:00:46 AM by SYSTEM
                                           (modified after loading) (Current integration events modified)
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Fraction Information
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No Fractions found.

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

```

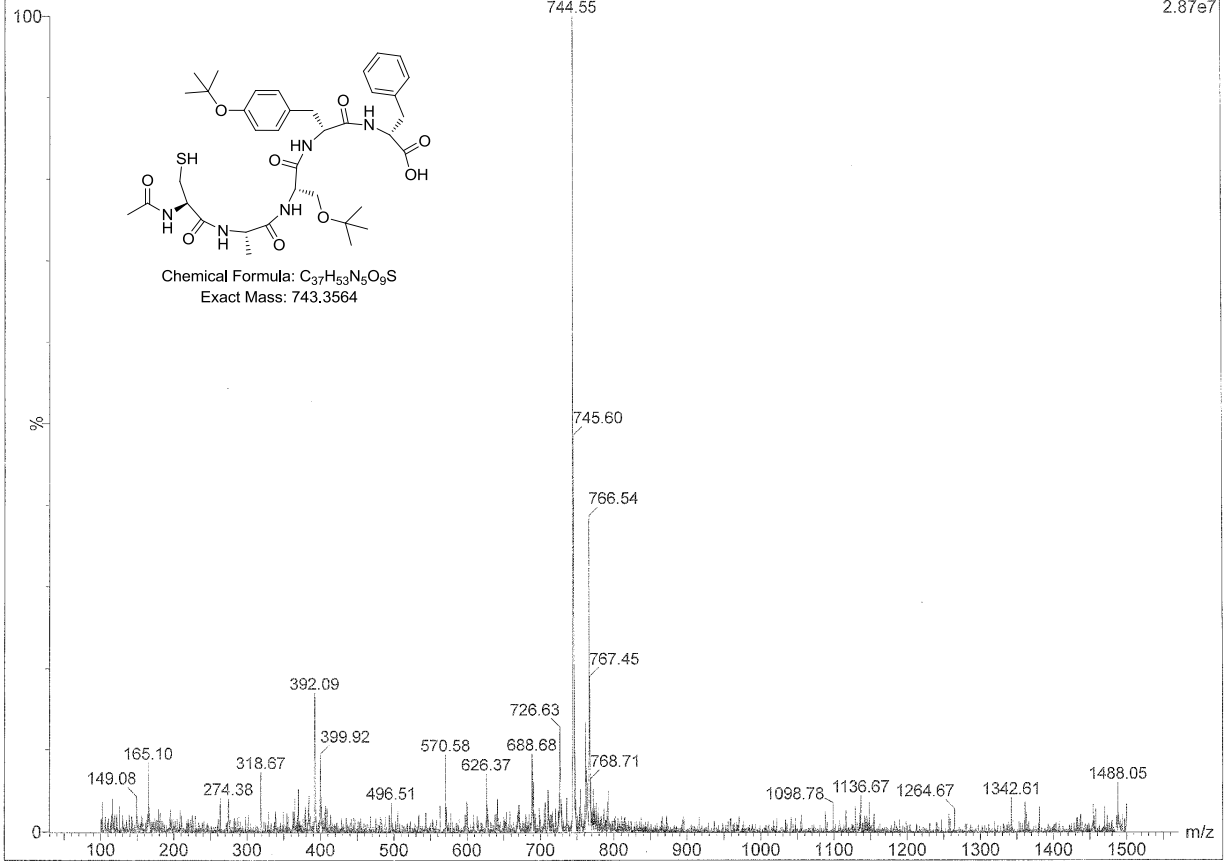
Signal 1: DAD1 A, Sig=254,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	10.279	BB	0.1253	58.45141	7.00503	100.0000

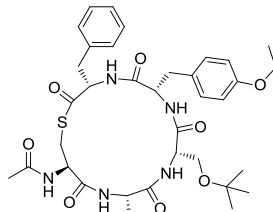
Totals : 58.45141 7.00503

20151209_S_epi_AIP_l_linear 86 (0.296) Sm (SG, 2x0.50); Cm (65:87)

1: MS2 ES+
2.87e7



Compound 12; Compound 12 was synthesised utilizing general produce 3. The crude material was purified *via* semi-preparative RP-HPLC, and lyophilised to afford **12** (12 mg, 13.8 %). (*Note; 3 mg of this sample was collect for biological analysis*) MS (ESI⁺) for C₃₇H₅₂N₅O₈S, *m/z* 726.63 (M + 1, 100%); HRMS (ESI⁺) calculated 726.3458, found, 726.3455. RP-HPLC Onyx Monolithic C18 100 × 4.6 mm, 10-100% B in 15 min, *t*_R 11.47 min.

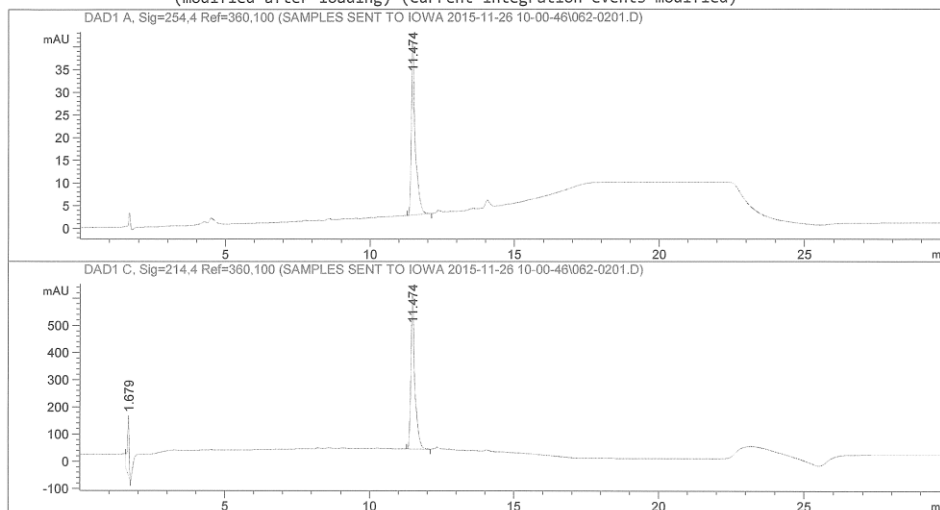


Chemical Formula: C₃₇H₅₁N₅O₈S
Exact Mass: 725.3458

Data File C:\CHEM32\1\DATA\SAMPLES SENT TO IOWA 2015-11-26 10-00-46\062-0201.D
Sample Name: Pro S epi AIP I cyclised

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    2
Acq. Instrument : LC1260                      Location  : Vial 62
Injection Date  : 11/26/2015 10:33:47 AM      Inj       :    1
                                           Inj Volume: 20.000 µl
Acq. Method     : C:\CHEM32\1\DATA\SAMPLES SENT TO IOWA 2015-11-26 10-00-46\10 TO 100 OVER 15
                                           MINS 20UL.M
Last changed    : 11/26/2015 10:00:46 AM by SYSTEM
Analysis Method : C:\CHEM32\1\DATA\SAMPLES SENT TO IOWA 2015-11-26 10-00-46\10 TO 100 OVER 15
                                           MINS 20UL.M (Sequence Method)
Last changed    : 12/1/2015 10:33:30 AM by SYSTEM
                                           (modified after loading) (Current integration events modified)
  
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Fraction Information
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No Fractions found.
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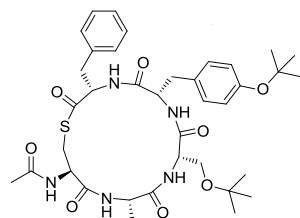
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Area Percent Report
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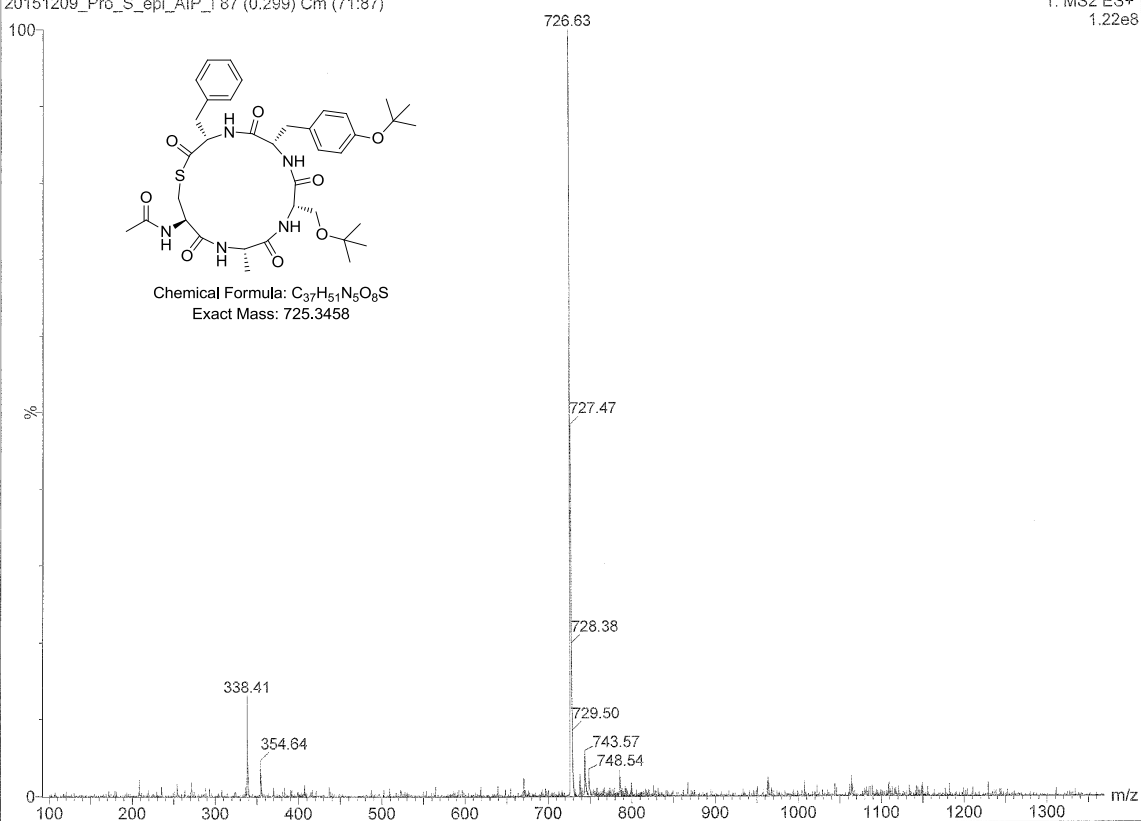
Sorted By      : Signal
Multiplier     : 1.0000
Dilution       : 1.0000
Use Multiplier & Dilution Factor with ISTDs
  
```

20151209_Pro_S_anti_AIP_187 (0.299) Cm (71:87)

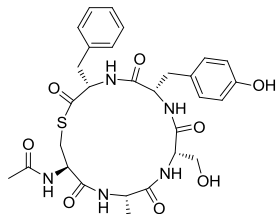
1: MS2 ES+
1.22e8



Chemical Formula: $C_{37}H_{51}N_5O_8S$
Exact Mass: 725.3458

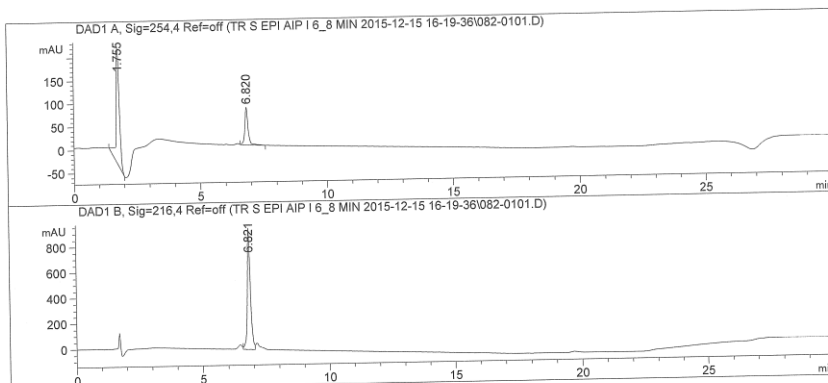


Compound 3; Compound **3** was prepared utilising general procedure 4 with **12**. The crude material was purified *via* semi-preparative RP-HPLC, and lyophilised to afford **3** (6.2 mg, 81.5 %). MS (ESI⁺) for C₂₉H₃₆N₅O₈S *m/z* 614.40; HRMS (ESI⁺) calculated 614.2206, found, 614.2231. RP-HPLC Onyx Monolithic C18 100 × 4.6 mm, 10-100% B in 15 min, *t*_R 6.82 min. ¹H NMR (300 MHz, DMSO) δ 9.13 (s, 1H), 8.23 (d, *J* = 7.8 Hz, 1H), 8.15 (d, *J* = 7.1 Hz, 1H), 8.07 (d, *J* = 7.9 Hz, 1H), 7.82 (d, *J* = 7.7 Hz, 1H), 7.73 (d, *J* = 8.2 Hz, 1H), 7.29 – 7.17 (m, 5H), 6.95 (d, *J* = 8.5 Hz, 2H), 6.58 (d, *J* = 8.5 Hz, 2H), 4.45 – 4.30 (m, 3H), 4.30 – 4.16 (m, 2H), 3.05 (d, *J* = 5.5 Hz, 1H), 3.00 (d, *J* = 5.4 Hz, 1H), 2.93 – 2.81 (m, 3H), 2.80 – 2.53 (m, 4H), 2.32 (t, *J* = 8.4 Hz, 1H), 1.85 (s, 3H), 1.16 (d, *J* = 7.1 Hz, 3H). ¹³C NMR (75 MHz, DMSO) δ 173.05, 172.52, 171.26, 170.12, 170.00, 169.88, 156.14, 137.79, 130.57, 129.53, 128.66, 127.93, 126.90, 115.23, 62.12, 55.40, 54.31, 54.03, 48.77, 37.20, 36.89, 26.62, 22.92, 18.35.



Chemical Formula: C₂₉H₃₅N₅O₈S
Exact Mass: 613.2206

```
Data File C:\CHEM32\1\DATA\TR S EPI AIP I 6_8 MIN 2015-12-15 16-19-36\082-0101.D
Sample Name: Tr S epi AIP I 6.8 mins
=====
Acq. Operator   : Simil20102015           Seq. Line :    1
Acq. Instrument : LC1260                 Location  : Vial 82
Injection Date  : 12/15/2015 4:21:23 PM      Inj       :    1
                                           Inj Volume: 100.000 µl
Acq. Method    : C:\CHEM32\1\DATA\TR S EPI AIP I 6_8 MIN 2015-12-15 16-19-36\10 TO 100
                                           OV 15MIN 100UL.M
Last changed   : 12/10/2015 4:12:03 PM by Simil20102015
Analysis Method : C:\CHEM32\1\METHODS\10 TO 100 OV 15MIN 100UL.M
Last changed   : 12/15/2015 5:24:52 PM by Simil20102015
                                           (modified after loading) (Current integration events modified)
=====
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Area Percent Report
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Sorted By : Signal
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

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

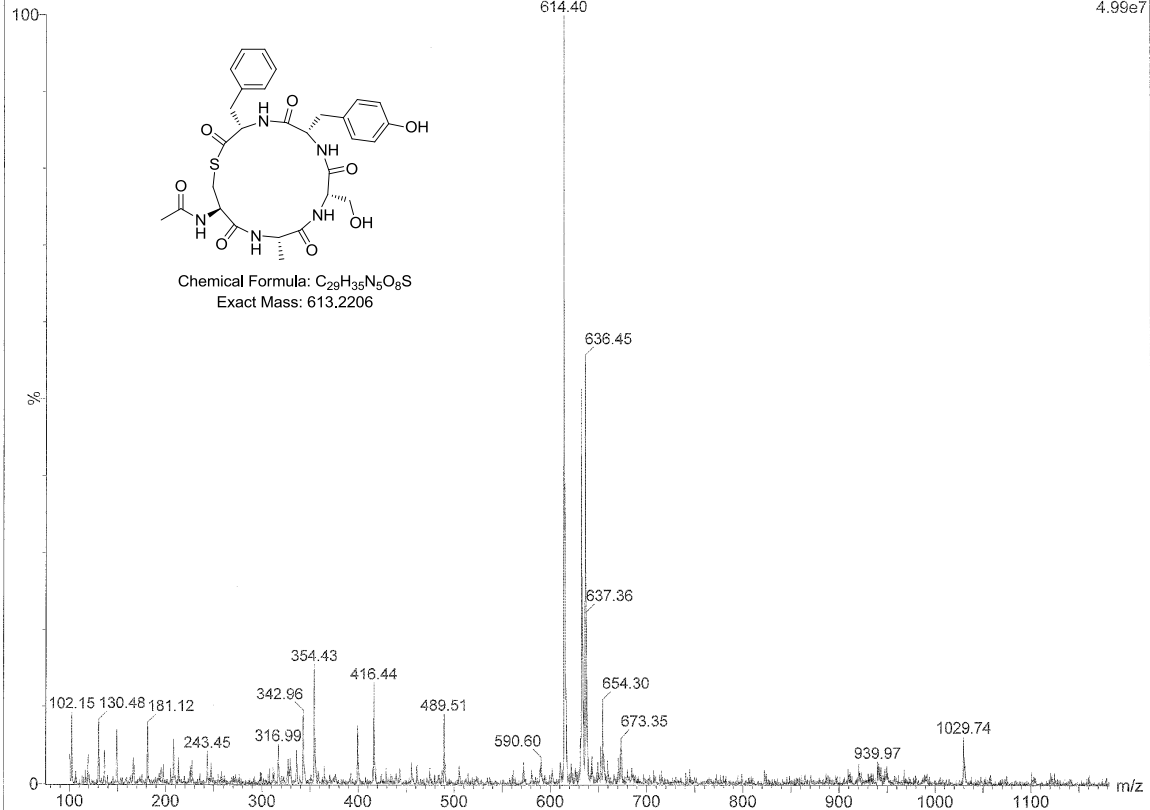
Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	1.755	BB	0.1350	2235.54028	253.18295	75.1678
2	6.820	VB	0.1317	738.52789	81.55083	24.8322
Totals :				2974.06818	334.73378	

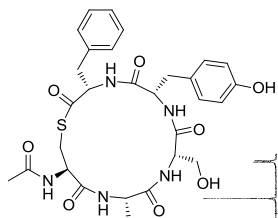
Signal 2: DAD1 B, Sig=216,4 Ref=off

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	6.821	VV	0.1260	8081.33545	943.21979	100.0000

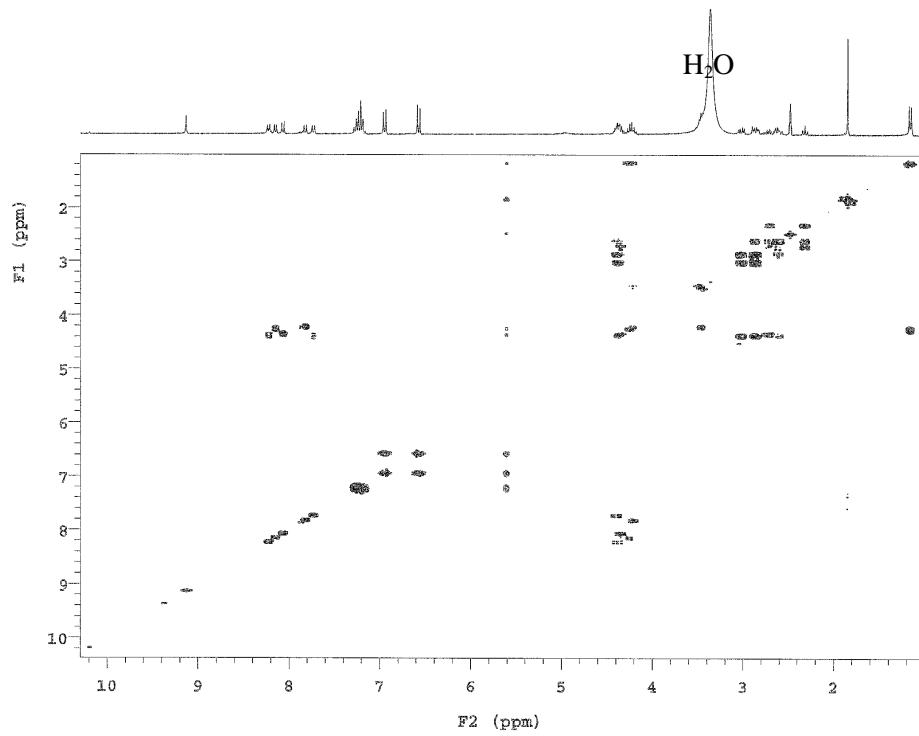
20151209_Tr_S_epi_AIP_I_A_Final 102 (0.351) Sm (SG, 2x0.50); Cm (63:106)

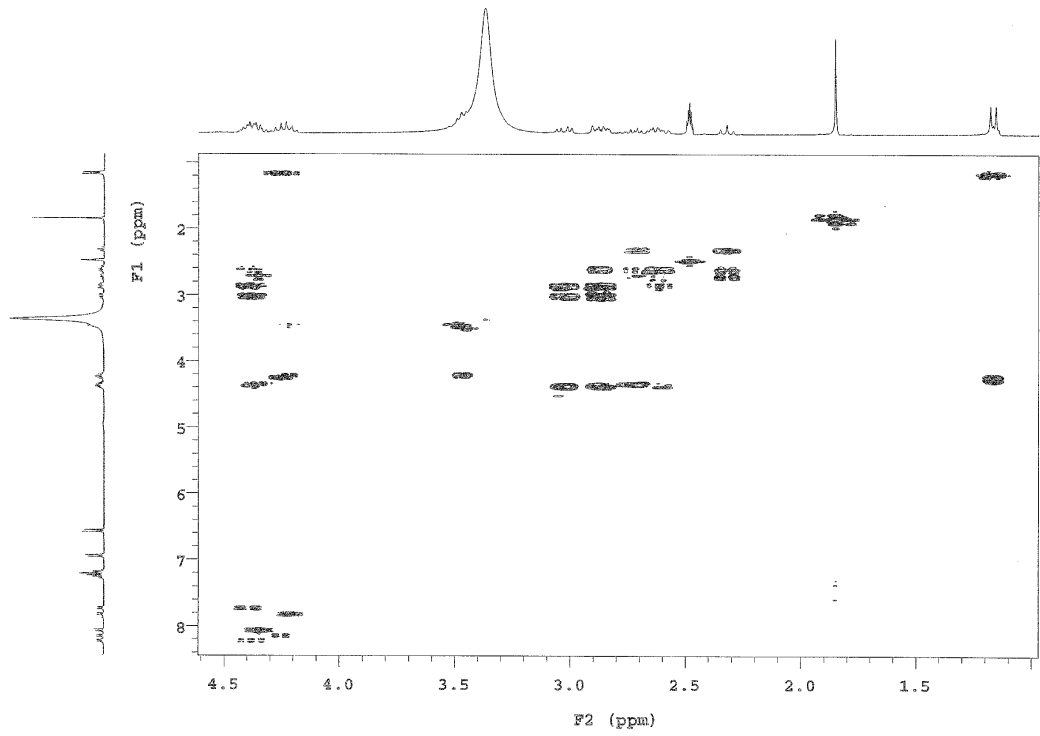
1: MS2 ES+
4.99e7

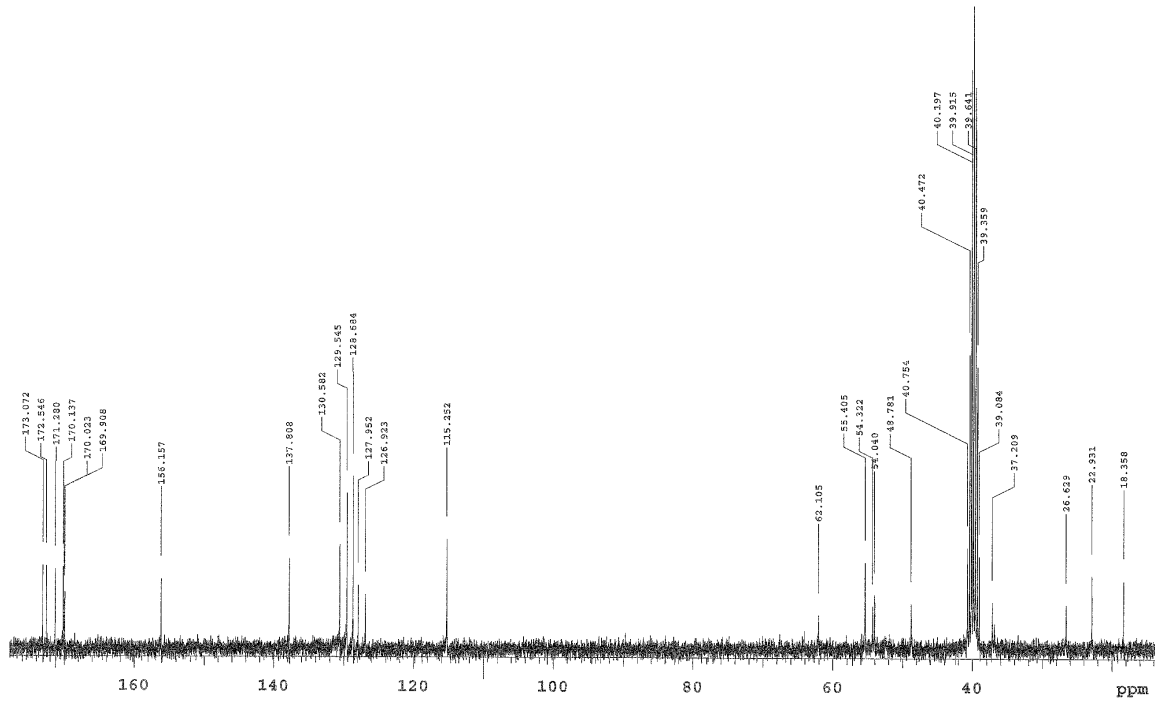




Chemical Formula: C₂₉H₃₅N₆O₈S
Exact Mass: 613.2206

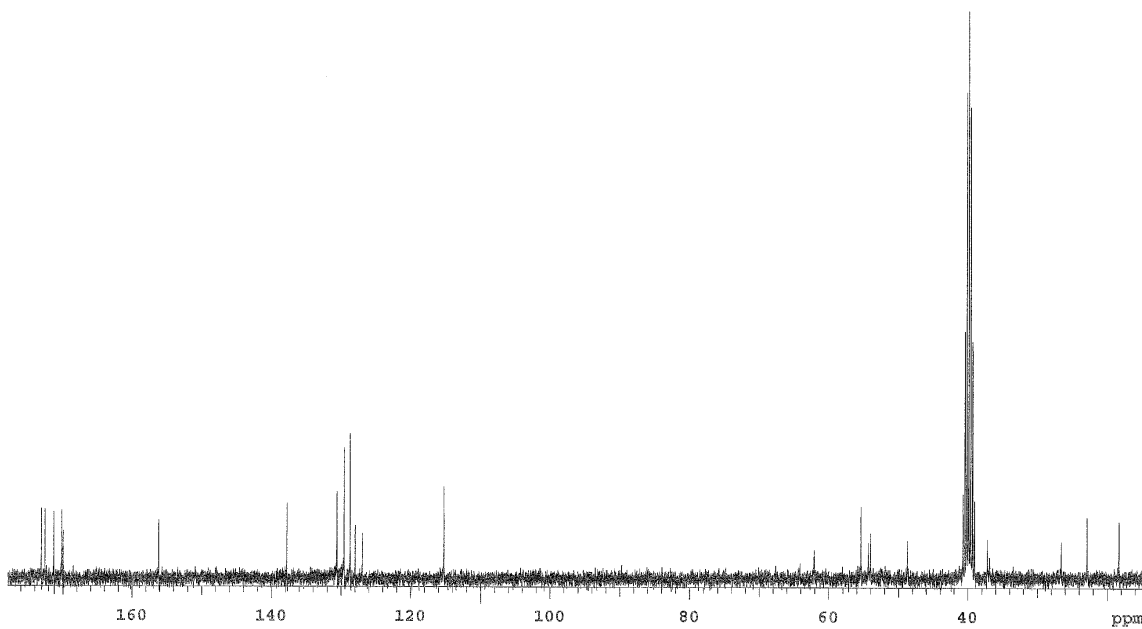




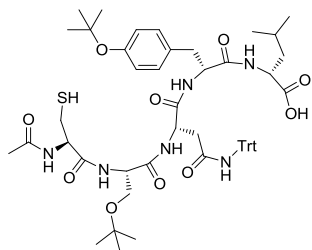


Data file #kxna/nmr300/kmmya/data/CpgData/N_Ac_Tr_S_epi_AIP_1_C13.fid

Plot date 2016-04-05



Compounds 13 & 4; The linear sequence required for **13** was prepared using general procedure 2. The residual crude material



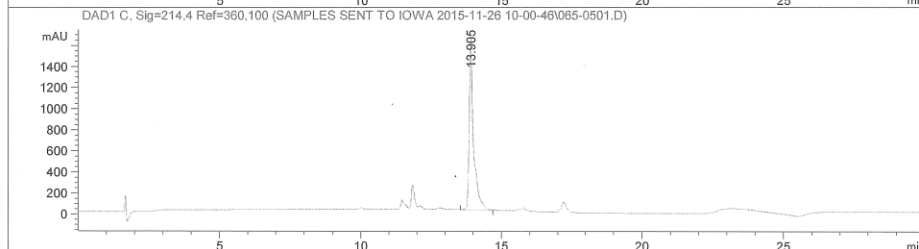
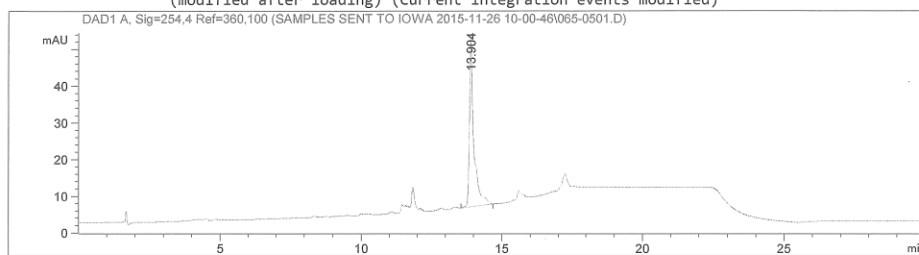
was triturated with ice-cold ether ($\times 3$) to furnish an off-white solid. MS (ESI⁺) for C₅₄H₇₁N₆O₁₀S; calculated 995.49, found, 995.71. RP-HPLC Onyx Monolithic C18 100 \times 4.6 mm, 10-100% B in 15 min, t_R 13.91 min.

Chemical Formula: C₅₄H₇₀N₆O₁₀S
Exact Mass: 994.4874

Data File C:\CHEM32\1\DATA\SAMPLES SENT TO IOWA 2015-11-26 10-00-46\065-0501.D
Sample Name: S epi AIP II linear

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    5
Acq. Instrument : LC1260                      Location  : Vial 65
Injection Date  : 11/26/2015 12:08:28 PM      Inj       :    1
                                           Inj Volume: 20.000 µl
Acq. Method     : C:\CHEM32\1\DATA\SAMPLES SENT TO IOWA 2015-11-26 10-00-46\10 TO 100 OVER 15
                                           MINS 20UL.M
Last changed    : 11/26/2015 10:00:46 AM by SYSTEM
Analysis Method : C:\CHEM32\1\DATA\SAMPLES SENT TO IOWA 2015-11-26 10-00-46\10 TO 100 OVER 15
                                           MINS 20UL.M (Sequence Method)
Last changed    : 12/1/2015 10:35:17 AM by SYSTEM
                 (modified after loading) (Current integration events modified)
    
```



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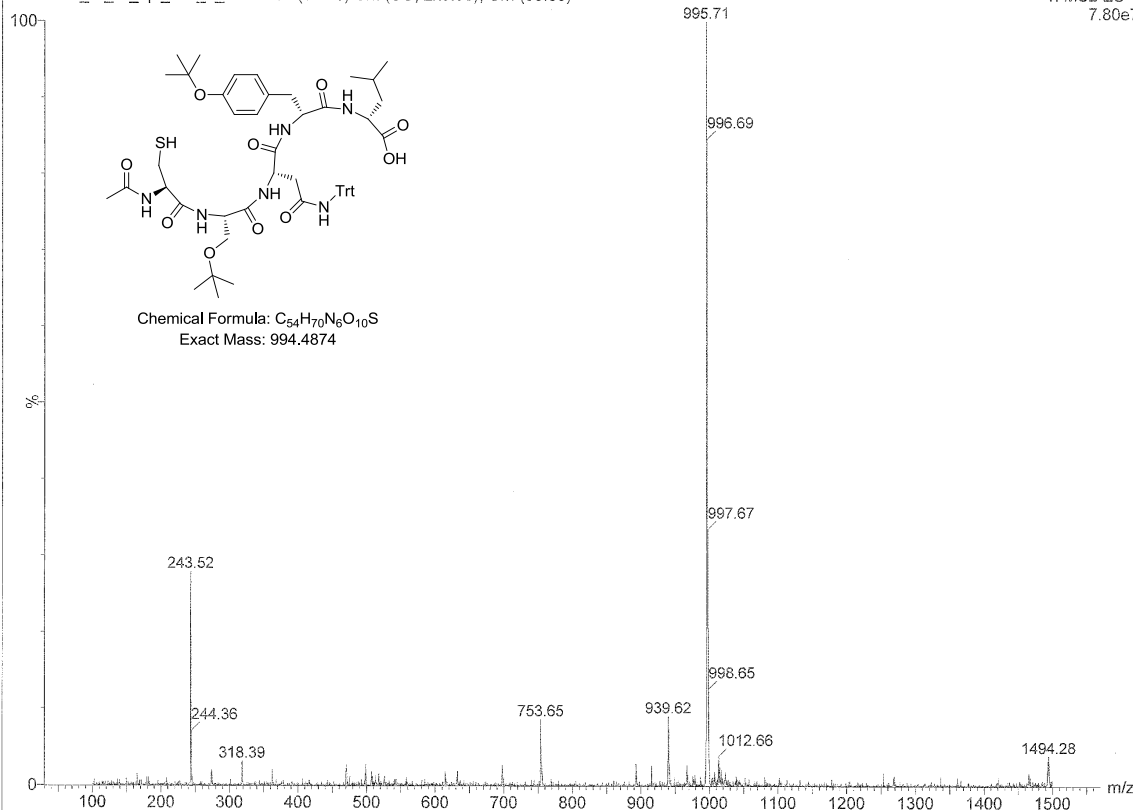
=====
Fraction Information
=====
No Fractions found.
=====
    
```

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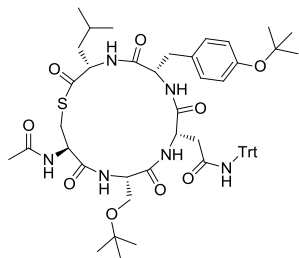
=====
Area Percent Report
=====
Sorted By      : Signal
Multiplier     : 1.0000
Dilution       : 1.0000
Use Multiplier & Dilution Factor with ISTDs
    
```


20151209_Tr_S_epi_AIP_II_linear 81 (0.278) Sm (SG, 2x0.50); Cm (56:83)

1: MS2 ES+
7.80e7



Compound 13; Compound **13** was synthesized utilizing general produce 3. The crude material was purified *via* semi-preparative RP-HPLC, and lyophilised to afford **13** (13 mg, 10.9 %). (*Note*; 3 mg of this sample was collect for biological analysis) MS (ESI⁺) for C₅₄H₆₉N₆O₉S, *m/z* 977.71 (M + 1, 100%); HRMS (ESI⁺) calculated 977.4768, found, 977.4719. RP-HPLC Onyx Monolithic C18 100 × 4.6 mm, 10-100% B in 15 min, *t_R* 15.38 min.

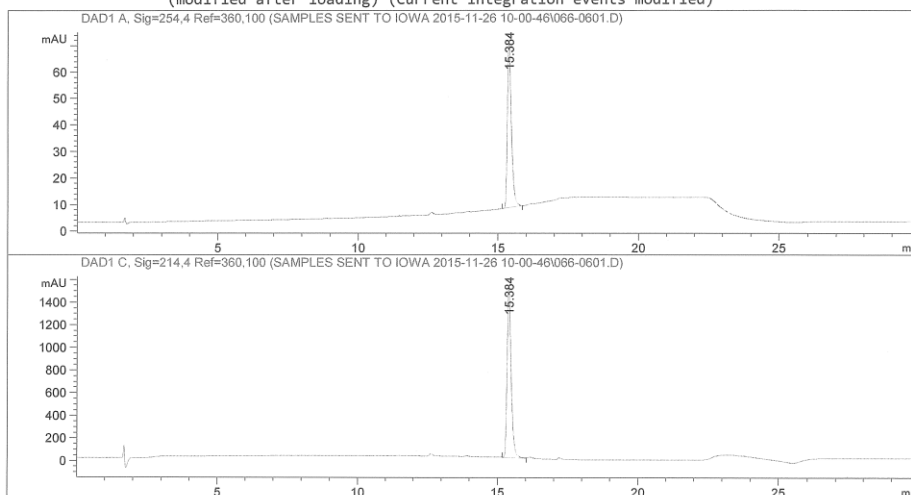


Chemical Formula: C₅₄H₆₈N₆O₉S
Exact Mass: 976.4768

Data File C:\CHEM32\1\DATA\SAMPLES SENT TO IOWA 2015-11-26 10-00-46\066-0601.D
Sample Name: Pro S epi AIP II cyclised

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    6
Acq. Instrument : LC1260                      Location  : Vial 66
Injection Date  : 11/26/2015 12:39:59 PM      Inj       :    1
                                           Inj Volume: 20.000 µl
Acq. Method     : C:\CHEM32\1\DATA\SAMPLES SENT TO IOWA 2015-11-26 10-00-46\10 TO 100 OVER 15
                                           MINS 20UL.M
Last changed    : 11/26/2015 10:00:46 AM by SYSTEM
Analysis Method : C:\CHEM32\1\DATA\SAMPLES SENT TO IOWA 2015-11-26 10-00-46\10 TO 100 OVER 15
                                           MINS 20UL.M (Sequence Method)
Last changed    : 12/1/2015 10:36:05 AM by SYSTEM
                (modified after loading) (Current integration events modified)
    
```

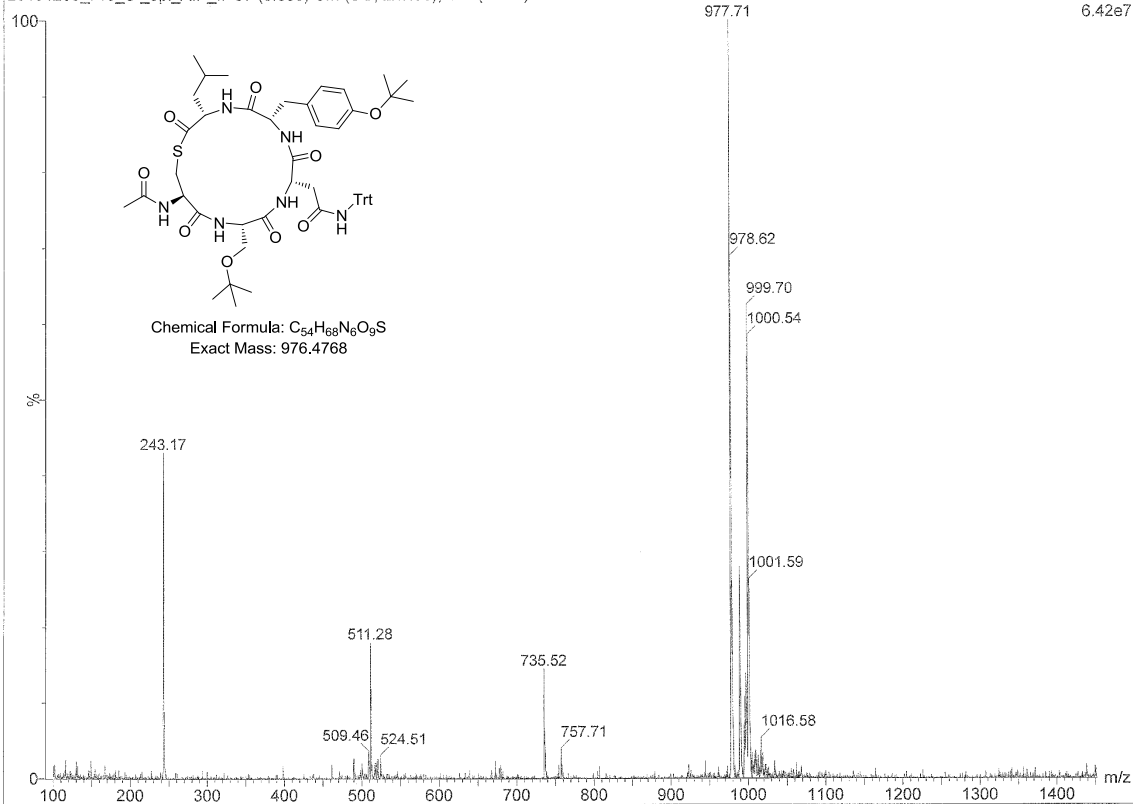


```

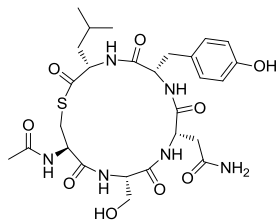
=====
                          Fraction Information
=====
No Fractions found.
=====
                          Area Percent Report
=====
    
```

```

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



Compound 4; Compound **4** was prepared utilising general procedure 4 with **13**. The crude material was purified *via* semi-



Chemical Formula: C₂₇H₃₉N₆O₉S
Exact Mass: 622.2421

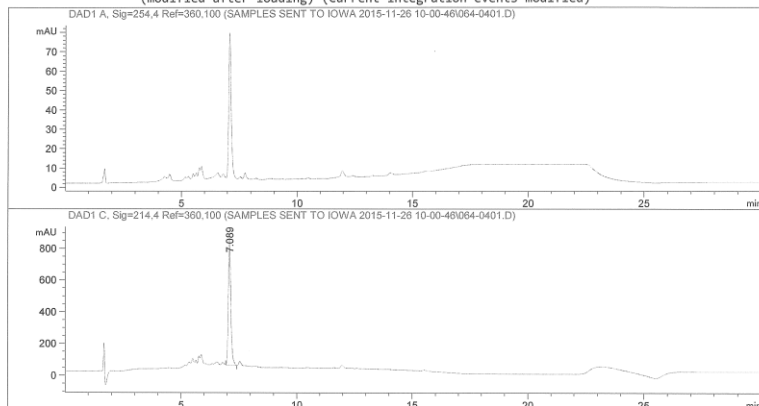
preparative RP-HPLC, and lyophilised to afford **4** (4.7 mg, 75.1 %). MS (ESI⁺) for C₂₇H₃₉N₆O₉S, *m/z* 623.3 (M + 1, 100%); HRMS (ESI⁺) calculated 623.2421, found, 623.2425. RP-HPLC Onyx Monolithic C18 100 × 4.6 mm, 10-100% B in 15 min, *t_R* 7.08 min. ¹H NMR (300 MHz, DMSO) δ 9.16 (s, 1H), 8.10 (d, *J* = 8.0 Hz, 2H), 8.06 (d, *J* = 7.4 Hz, 1H), 8.01 (d, *J* = 7.8 Hz, 1H), 7.81 (d, *J* = 8.3 Hz, 1H), 7.33 (s, 1H), 6.98 (d, *J* = 8.5 Hz, 2H), 6.89 (s, 1H), 6.61 (d, *J* = 8.5 Hz, 2H), 4.51 – 4.30 (m, 3H), 4.26 (dd, *J* = 13.2, 6.0 Hz, 1H), 4.20 – 4.09 (m, 1H), 3.65 – 3.50 (m, 4H), 2.92 (dd, *J* = 14.2, 3.9 Hz, 1H), 2.79 (d, *J* = 5.3 Hz, 1H), 2.75 (d, *J* = 5.2 Hz, 1H), 2.69 – 2.56 (m, 2H), 2.44 (d, *J* = 5.4 Hz, 1H), 2.35 (d, *J* = 7.5 Hz, 1H), 2.30 (d, *J* = 7.3 Hz, 1H), 1.85 (d, *J* = 7.0 Hz, 3H), 1.67 – 1.40 (m, 3H), 0.87 (d, *J* = 6.3 Hz, 2H), 0.82 (d, *J* = 6.3 Hz, 3H). ¹³C NMR (75 MHz, DMSO) δ 174.29, 172.96, 172.88, 172.03, 171.29, 170.85, 170.56, 170.26, 170.09, 156.13, 130.51, 128.24, 128.20, 115.34, 115.34, 62.04, 55.49, 53.24, 53.02, 50.84, 50.34, 32.85, 26.62, 26.61, 24.64, 23.30, 22.92, 21.82.

Data File C:\CHEM32\1\DATA\SAMPLES SENT TO IOWA 2015-11-26 10-00-46\064-0401.D
Sample Name: Tr S epi AIP I 8.5 min

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    4
Acq. Instrument : LC1260                     Location  : Vial 64
Injection Date  : 11/26/2015 11:36:54 AM      Inj       :    1
                                           Inj Volume: 20.000 µl
Acq. Method     : C:\CHEM32\1\DATA\SAMPLES SENT TO IOWA 2015-11-26 10-00-46\10 TO 100 OVER 15
                                           MINS 20UL.M
Last changed    : 11/26/2015 10:00:46 AM by SYSTEM
Analysis Method : C:\CHEM32\1\DATA\SAMPLES SENT TO IOWA 2015-11-26 10-00-46\10 TO 100 OVER 15
                                           MINS 20UL.M (Sequence Method)
Last changed    : 12/1/2015 10:34:30 AM by SYSTEM
                                           (modified after loading) (Current integration events modified)
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```



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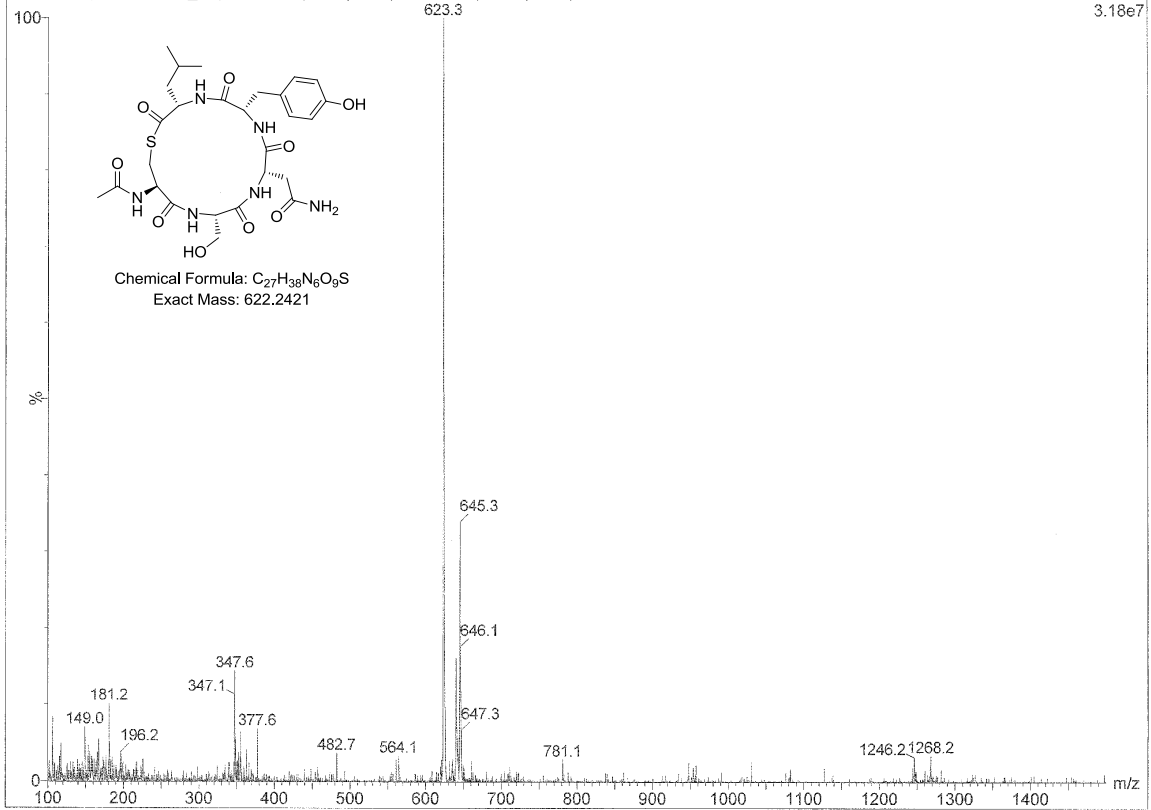
=====
Fraction Information
=====
No Fractions found.
=====
Area Percent Report
=====
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====

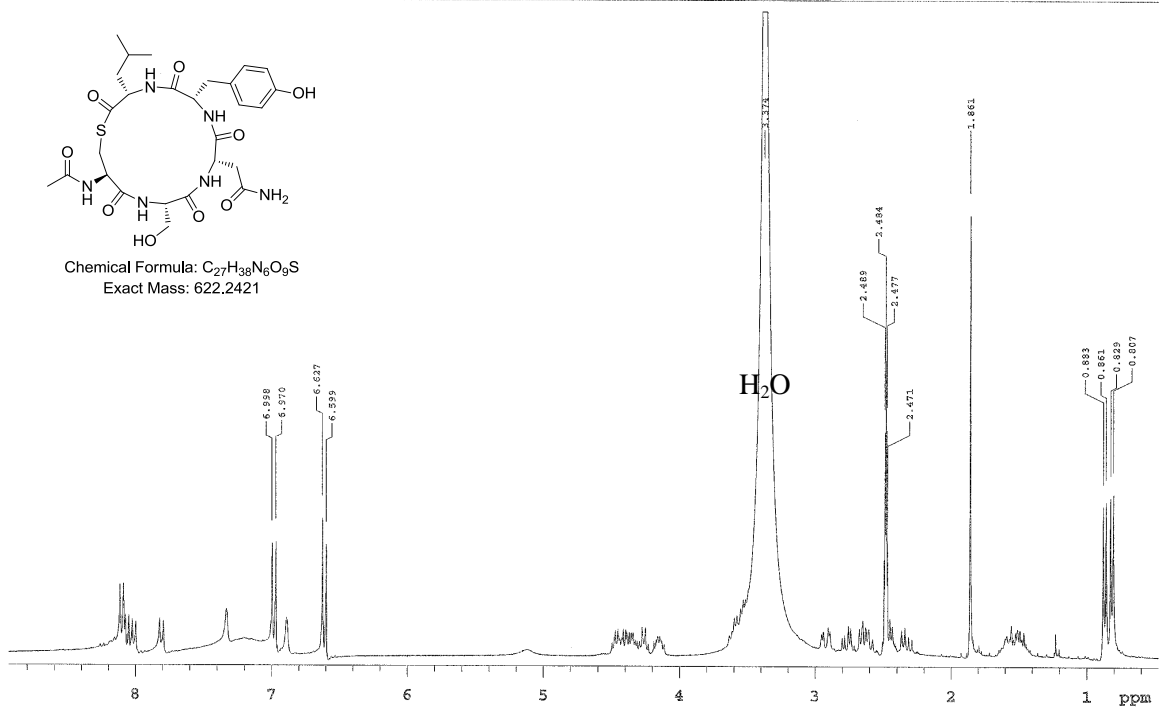
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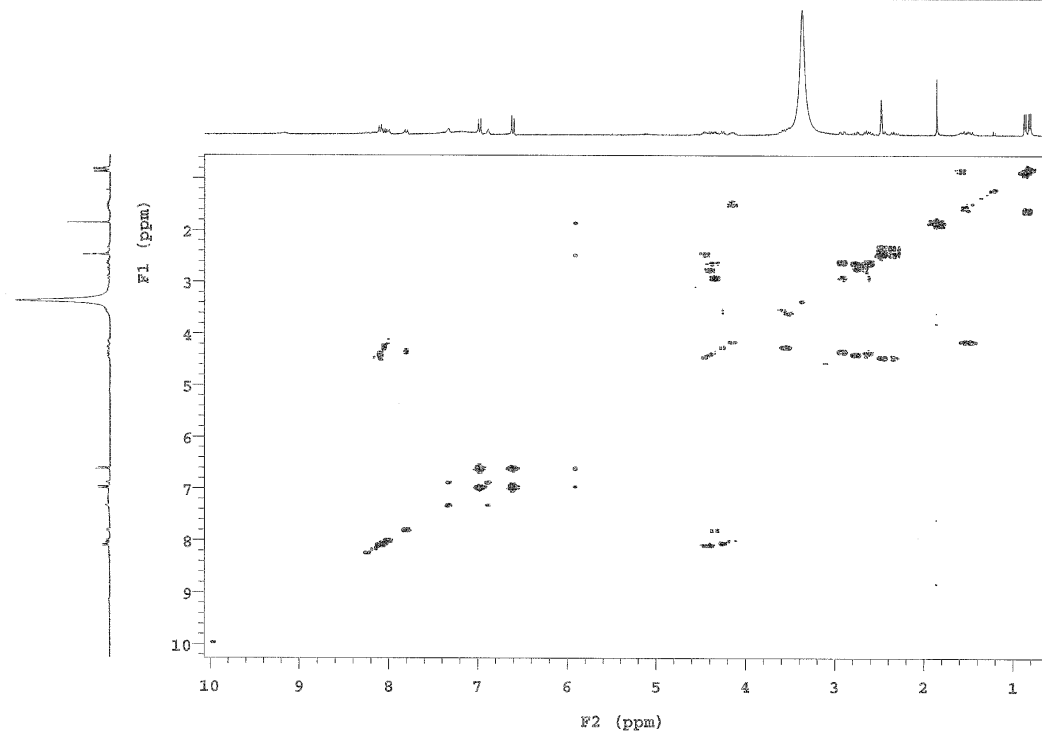
From vial

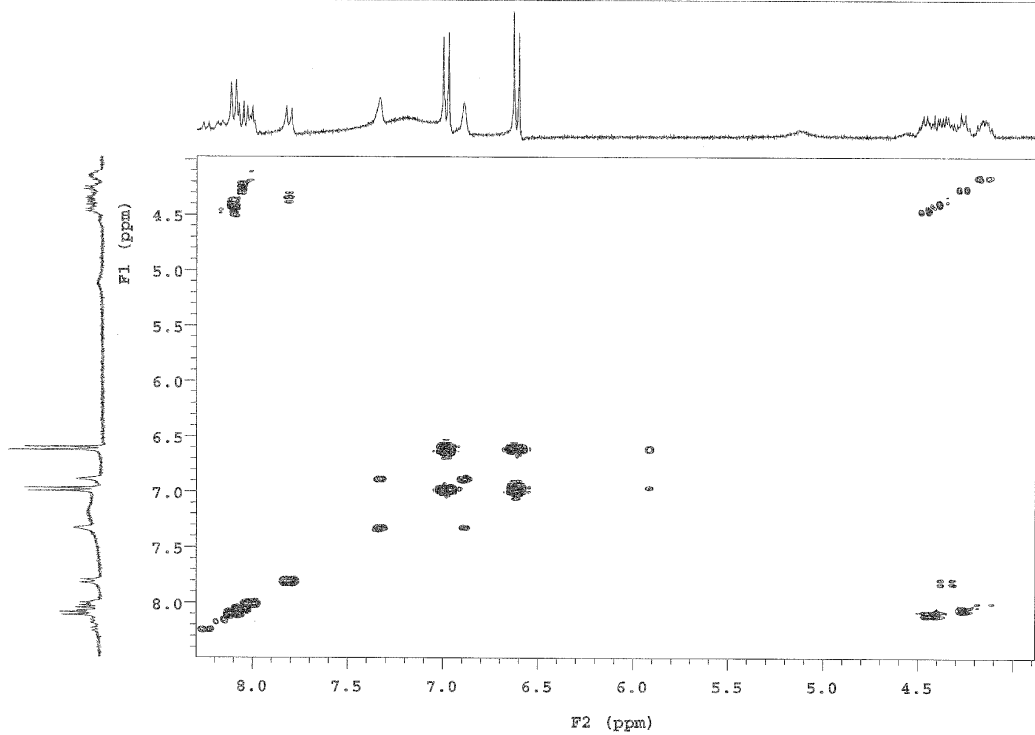
20150909_ChrisGordon_SepiAlPII 90 (0.309) Sm (SG, 2x0.50); Cm (71:90)

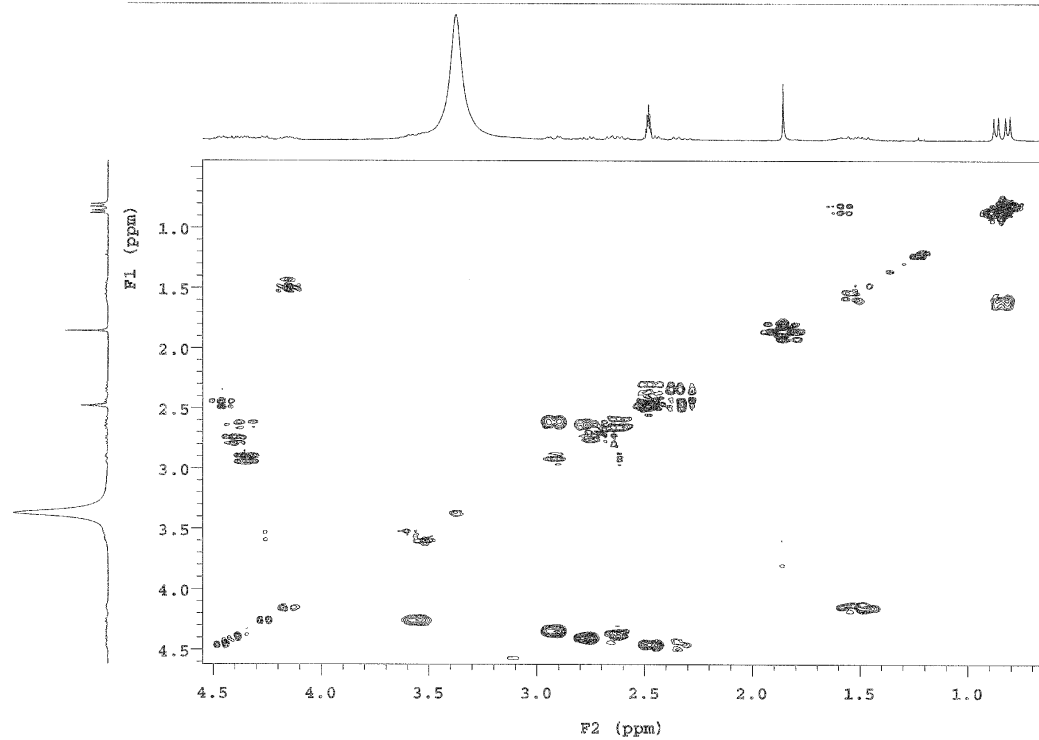
1: MS2 ES+
3.18e7

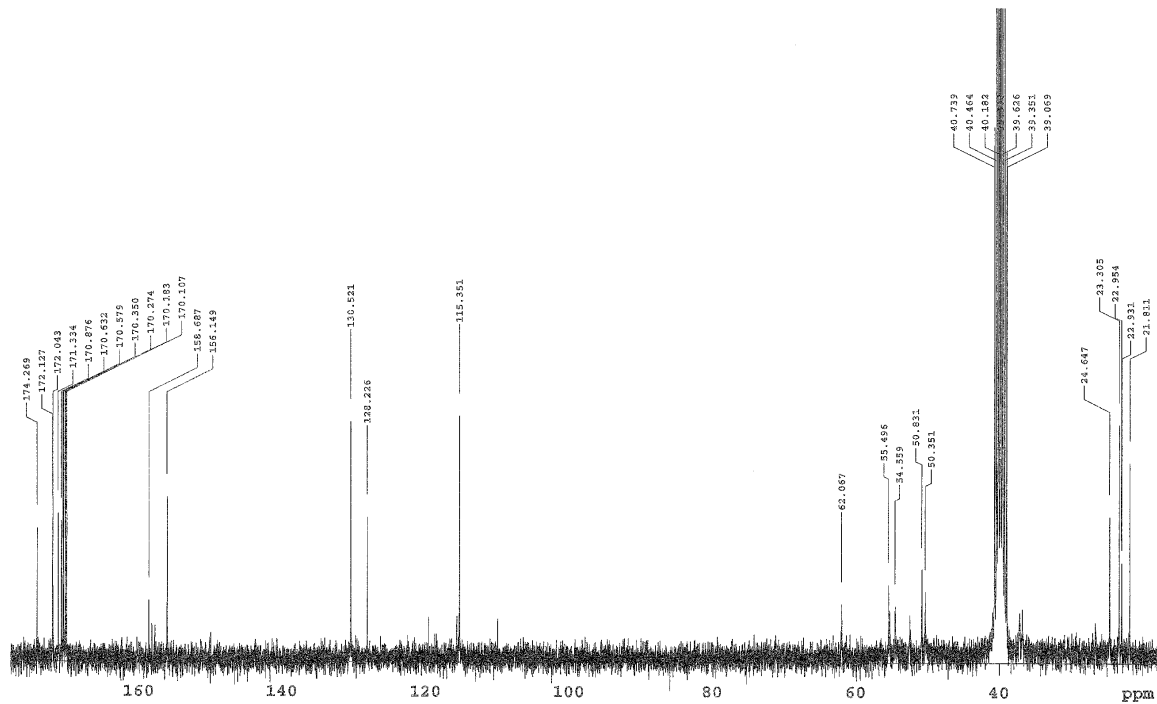


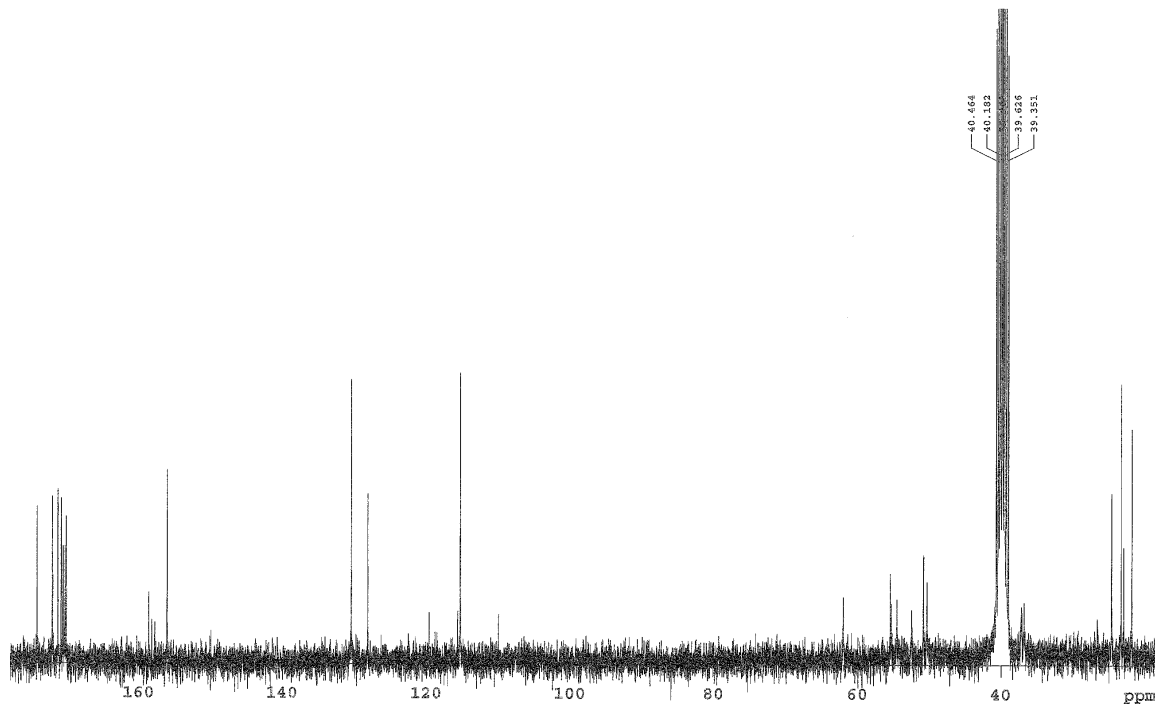






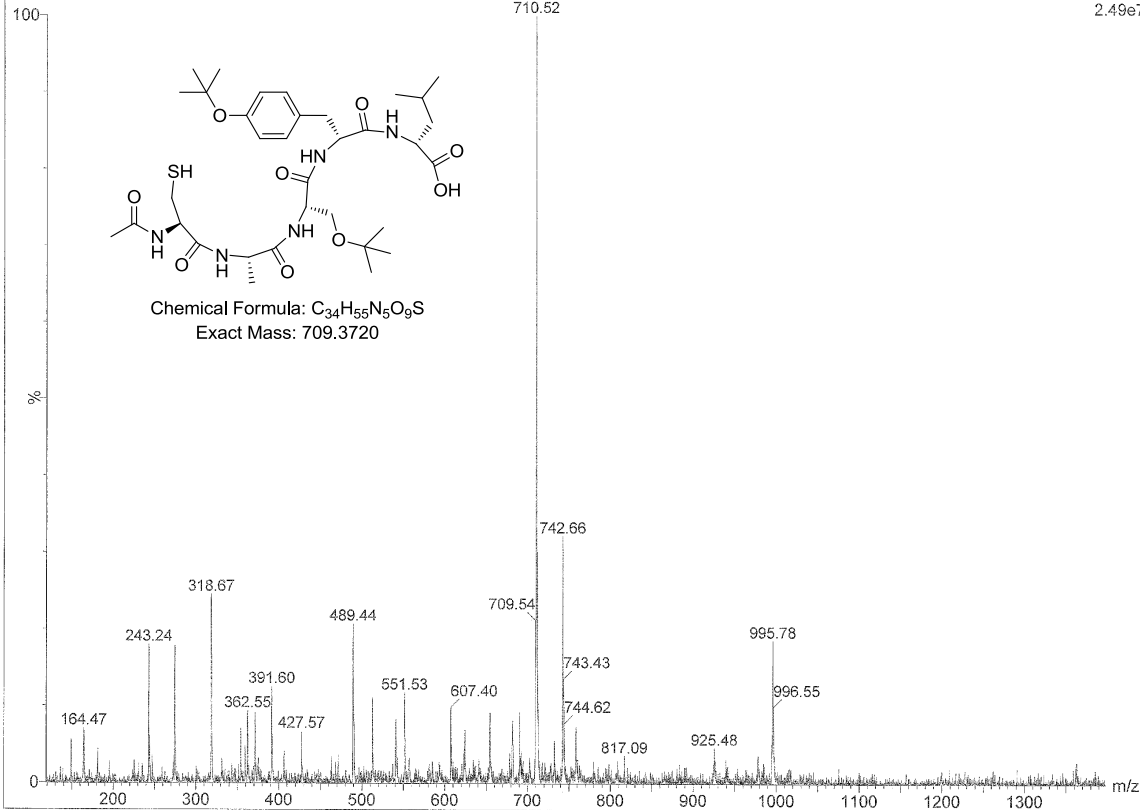




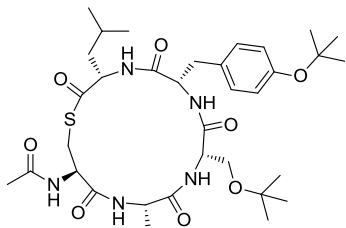


20151209_Tr_S_epi_AIP_III_linear 94 (0.323) Sm (SG, 2x0.50); Cm (53;94)

1: MS2 ES+
2.49e7



Compound 14; Compound 14 was synthesised utilising general produce 3. The crude material was purified *via* semi-preparative RP-HPLC, and lyophilised to afford **14** (16 mg, 18.8 %). (*Note; 3 mg of this sample was collect for biological analysis*) MS (ESI⁺) for C₃₄H₅₄N₅O₈S *m/z* 692.46 (M + 1, 100%); HRMS (ESI⁺) calculated 692.3615, found, 692.3620. RP-HPLC Onyx Monolithic C18 100 × 4.6 mm, 10-100% B in 15 min, *t_R* 11.43 min.



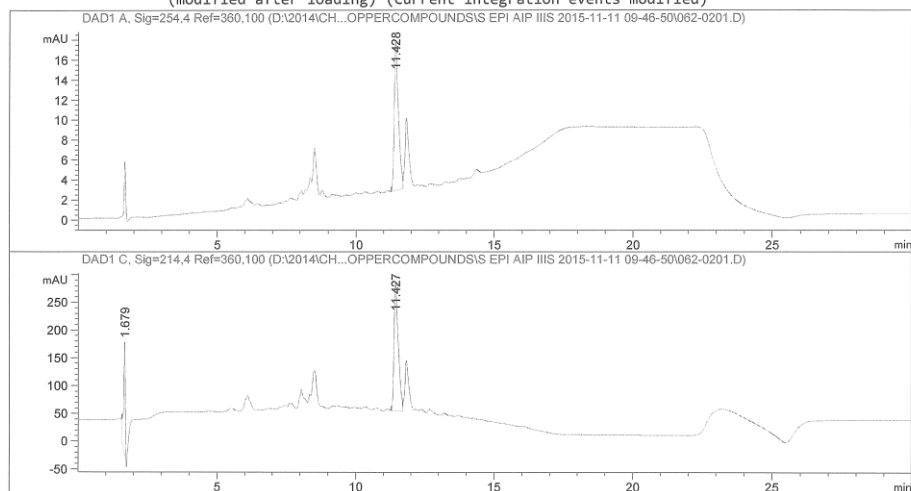
Chemical Formula: C₃₄H₅₃N₅O₈S
Exact Mass: 691.3615

Data File D:\2014\CH...ATA\DDCOPPERCOMPOUNDS\EPI AIP IIIS 2015-11-11 09-46-50\062-0201.D
Sample Name: S epi AIP III cyclised crude

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    2
Acq. Instrument : LC1260                      Location  : Vial 62
Injection Date  : 11/11/2015 10:19:37 AM      Inj       :    1
                                           Inj Volume: 10.000 µl
Acq. Method    : D:\2014\CHRIS\DATA\DDCOPPERCOMPOUNDS\EPI AIP IIIS 2015-11-11 09-46-50\10
                                           TO 100 OVER 15 MINS 10UL.M
Last changed   : 11/11/2015 9:46:50 AM by SYSTEM
Analysis Method : D:\2014\CHRIS\DATA\DDCOPPERCOMPOUNDS\EPI AIP IIIS 2015-11-11 09-46-50\10
                                           TO 100 OVER 15 MINS 10UL.M (Sequence Method)
Last changed   : 11/11/2015 4:29:12 PM by SYSTEM
                                           (modified after loading) (Current integration events modified)
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Fraction Information
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No Fractions found.
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Area Percent Report
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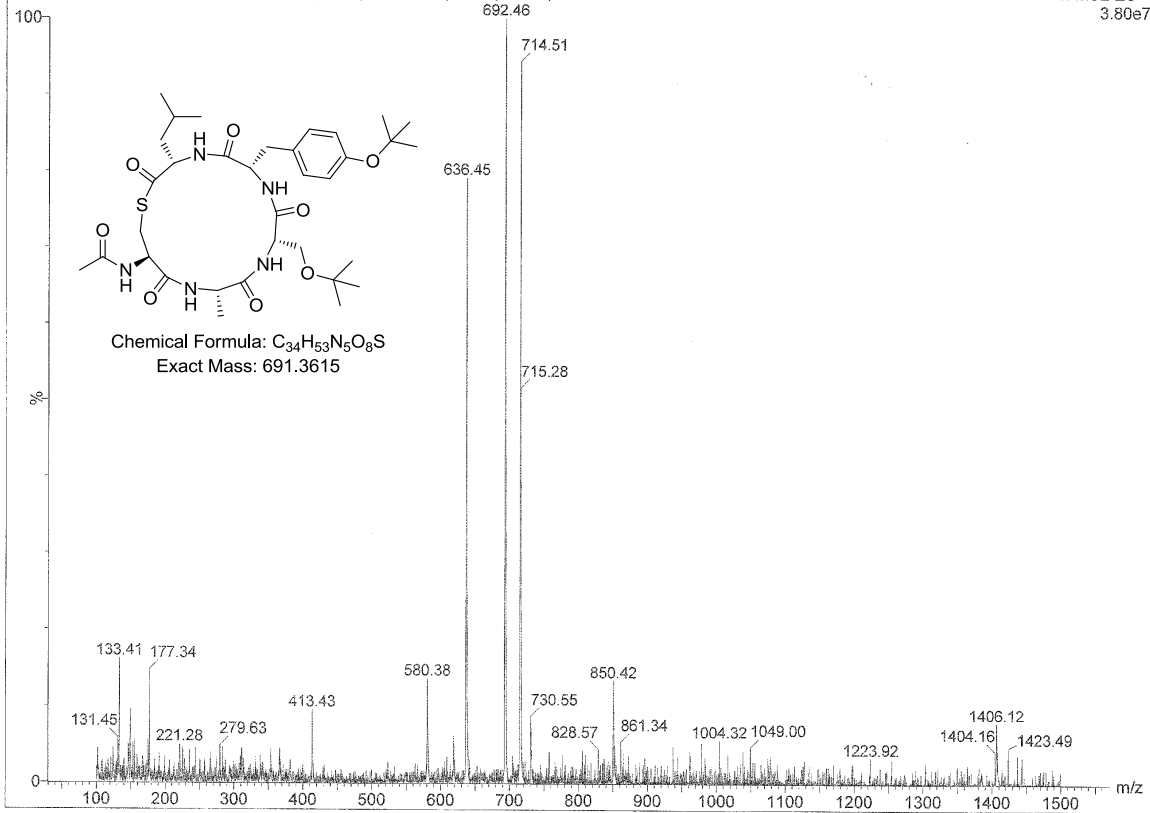
Sorted By      : Signal
Multiplier    : 1.0000
Dilution      : 1.0000
Use Multiplier & Dilution Factor with ISTDs

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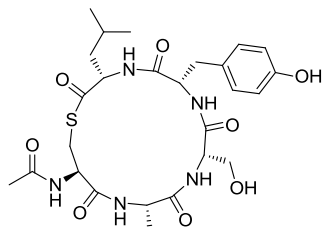
From vial

20151125_Chris_SEPIAIP3_3 86 (0.296) Sm (SG, 2x0.50); Cm (80:113)

1: MS2 ES+
3.80e7



Compound 5; **Compound 5** was prepared utilising general procedure 4 with **14**. The crude material was purified *via* semi-



Chemical Formula: C₂₆H₃₇N₅O₈S
Exact Mass: 579.2363

preparative RP-HPLC, and lyophilised to afford **5** (9.1 mg, 71.8 %). MS (ESI⁺) for C₂₇H₃₈N₅O₈S, *m/z* 580.16; HRMS (ESI⁺) calculated 580.2363, found, 580.2367. RP-HPLC Onyx Monolithic C18 100 × 4.6 mm, 10-100% B in 15 min, *t_R* 6.55 min. ¹H NMR (300 MHz, DMSO) δ 9.16 (s, 1H), 8.10 (d, *J* = 8.0 Hz, 2H), 8.06 (d, *J* = 7.4 Hz, 1H), 8.01 (d, *J* = 7.8 Hz, 1H), 7.81 (d, *J* = 8.3 Hz, 1H), 7.33 (s, 1H), 6.98 (d, *J* = 8.5 Hz, 2H), 6.89 (s, 1H), 6.61 (d, *J* = 8.5 Hz, 2H), 4.51 – 4.30 (m, 3H), 4.26 (dd, *J* = 13.2, 6.0 Hz, 1H), 4.20 – 4.10 (m, 1H), 3.65 – 3.49 (m, 6H), 2.92 (dd, *J* = 14.2, 3.9 Hz, 2H), 2.79 (d, *J* = 5.3 Hz, 1H), 2.75 (d, *J* = 5.2 Hz, 1H), 2.70 – 2.56 (m, 2H), 2.44 (d, *J* = 5.4 Hz, 1H), 2.35 (d, *J* = 7.5 Hz, 1H), 2.30 (d, *J* = 7.3 Hz, 1H), 1.86 (s, 3H), 1.67 – 1.39 (m, 3H), 0.87 (d, *J* = 6.3 Hz, 3H), 0.82 (d, *J* = 6.3 Hz, 3H). ¹³C NMR (75 MHz, DMSO) δ 176.39, 174.74, 174.59, 173.46, 172.42, 172.30, 172.18, 172.11, 158.33, 132.76, 130.16, 117.41, 64.30, 57.70, 57.57, 56.42, 52.91, 50.95, 42.51, 38.98, 28.79, 26.80, 25.46, 25.10, 23.93, 20.65, 20.49.

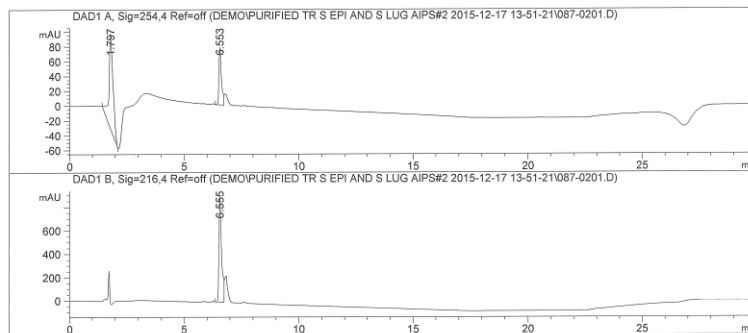
Data File C:\CHEM32\...\O\PURIFIED TR S EPI AND S LUG AIP#2 2015-12-17 13-51-21\087-0201.D
Sample Name: Tr S epi AIP II 6.5 min

```

=====
Acq. Operator   : Simil20102015                      Seq. Line :    2
Acq. Instrument : LC1260                            Location  : Vial 87
Injection Date  : 12/17/2015 2:24:49 PM                Inj       :    1
                                                    Inj Volume: 100.000 µl

Acq. Method    : C:\CHEM32\1\DATA\DEMO\PURIFIED TR S EPI AND S LUG AIP#2 2015-12-17 13-
                    51-21\10 TO 100 OV 15MIN 100UL.M
Last changed   : 12/10/2015 4:12:03 PM by Simil20102015
Analysis Method : C:\CHEM32\1\DATA\DEMO\PURIFIED TR S EPI AND S LUG AIP#2 2016-01-05 09-
                    33-14\10 TO 100 OV 15MIN 20UL.M
Last changed   : 1/6/2016 3:19:20 PM by Simil20102015
                    (modified after loading)
=====

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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 A, Sig=254,4 Ref=off

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	1.797	BB	0.1759	1600.58044	127.94724	73.1662
2	6.553	VV	0.1109	587.01422	77.06809	26.8338

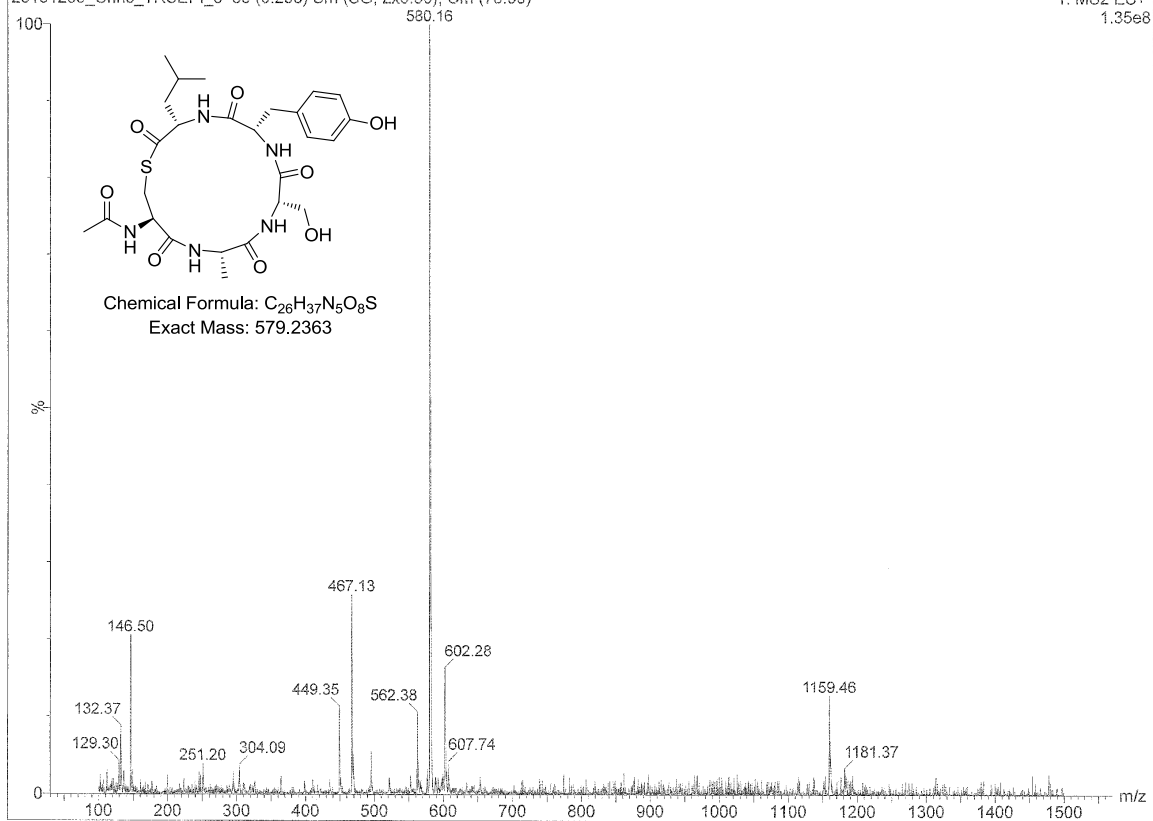
Totals : 2187.59467 205.01534

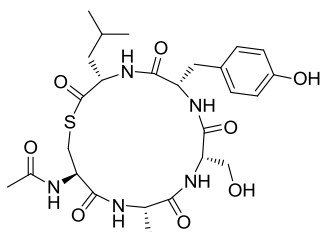
Signal 2: DAD1 B, Sig=216,4 Ref=off

From vial

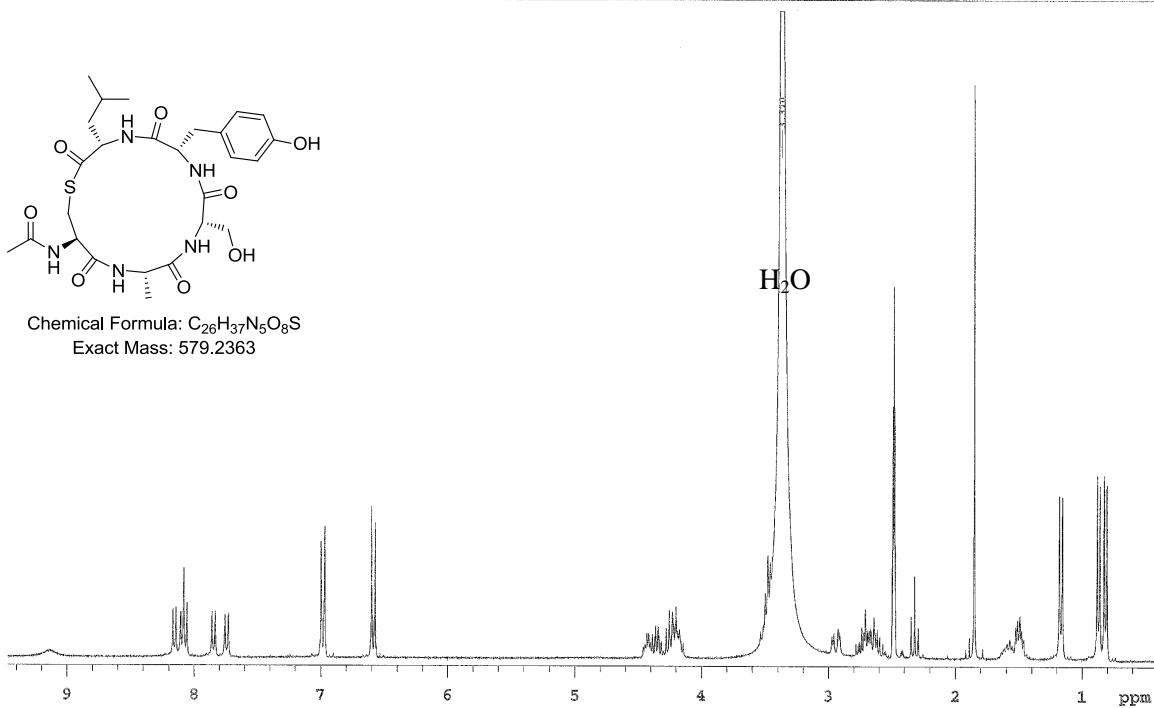
20151203_Chris_TRSEPI_3 86 (0.296) Sm (SG, 2x0.50); Cm (75:99)

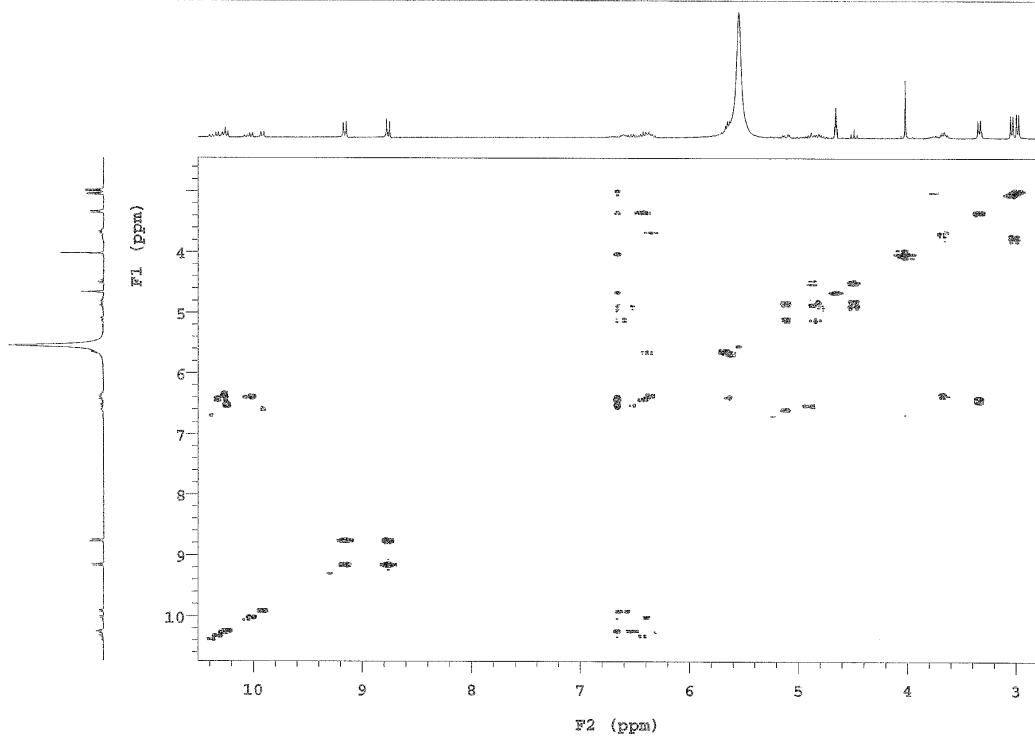
1: MS2 ES+
1.35e8

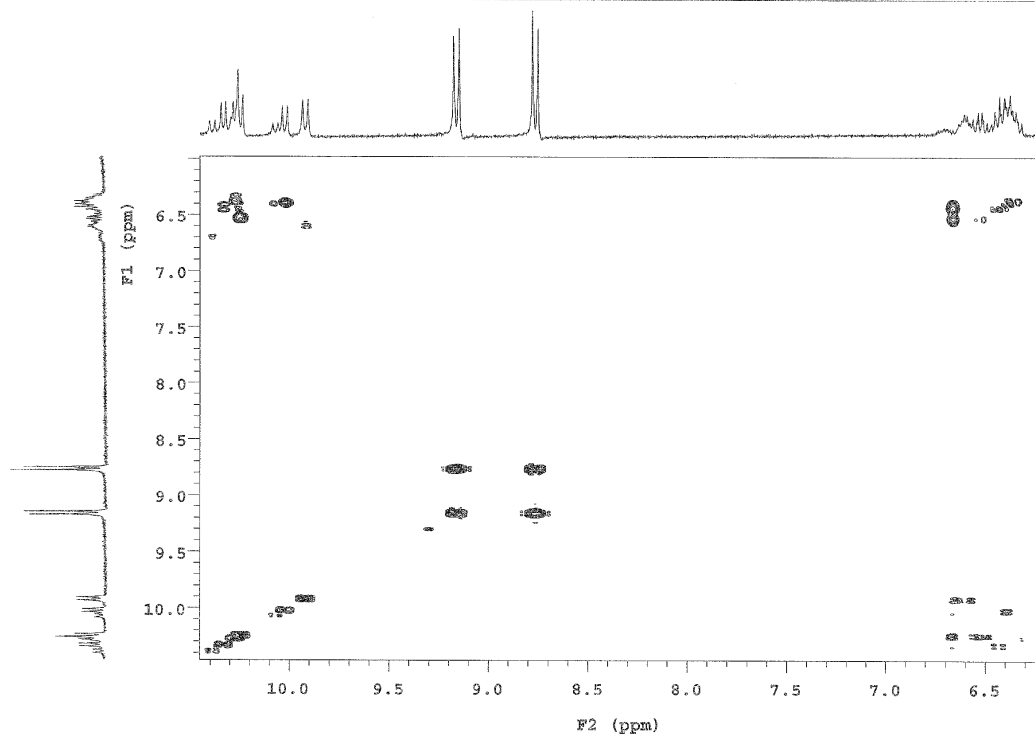


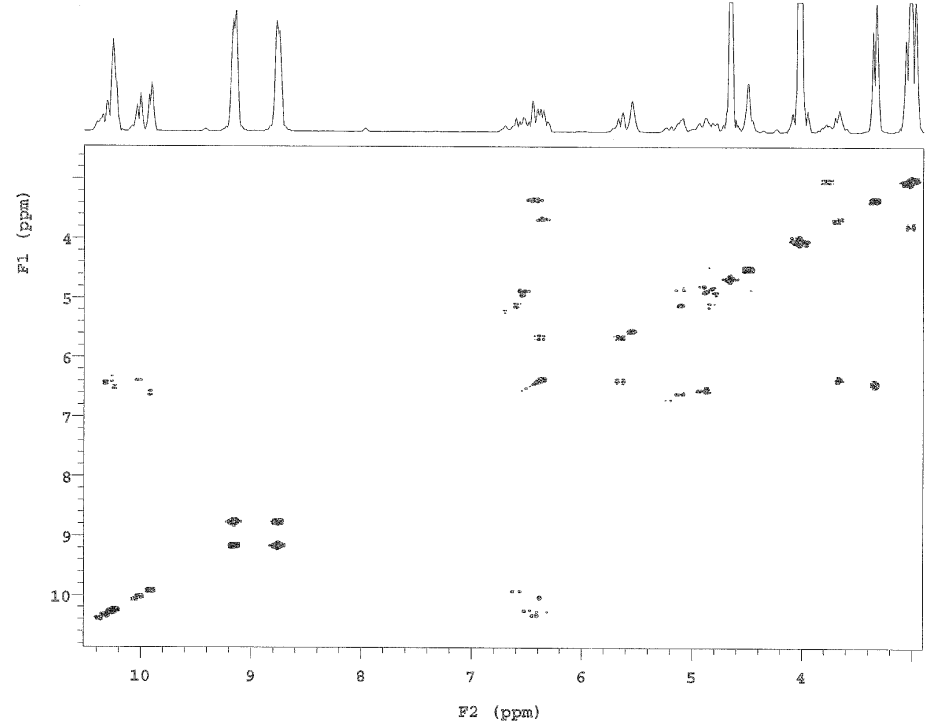
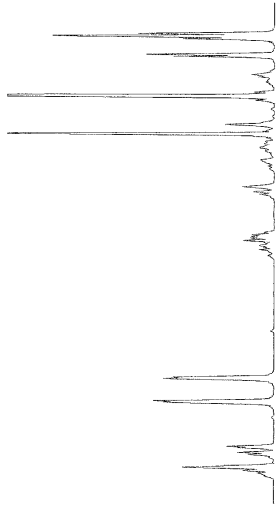


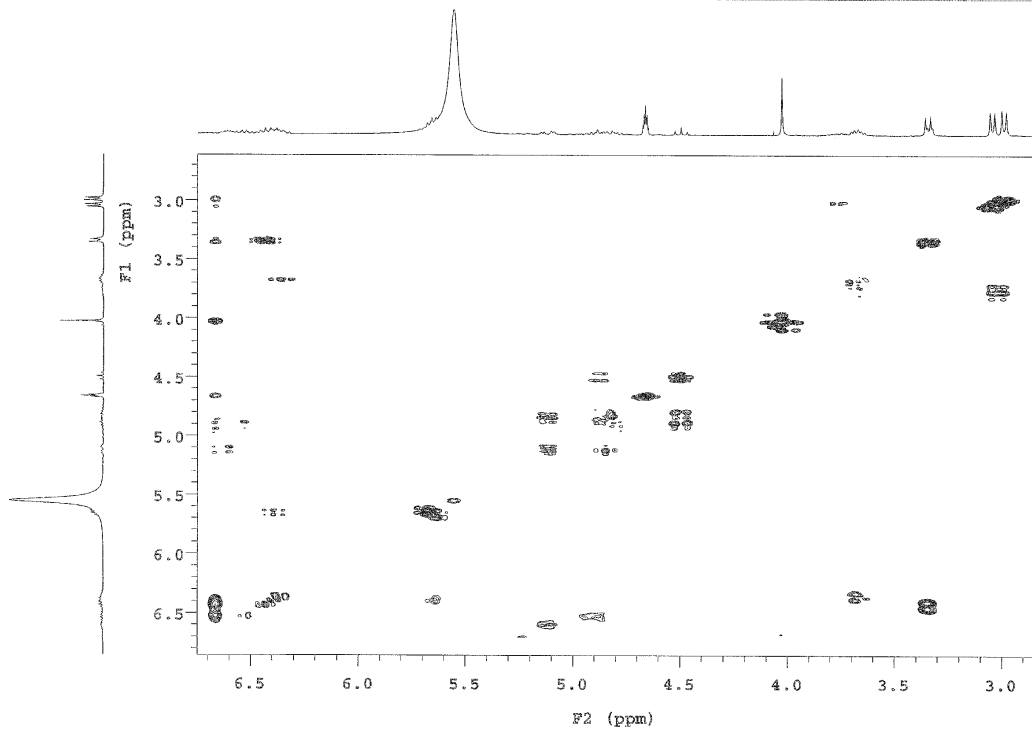
Chemical Formula: $C_{26}H_{37}N_5O_8S$
Exact Mass: 579.2363

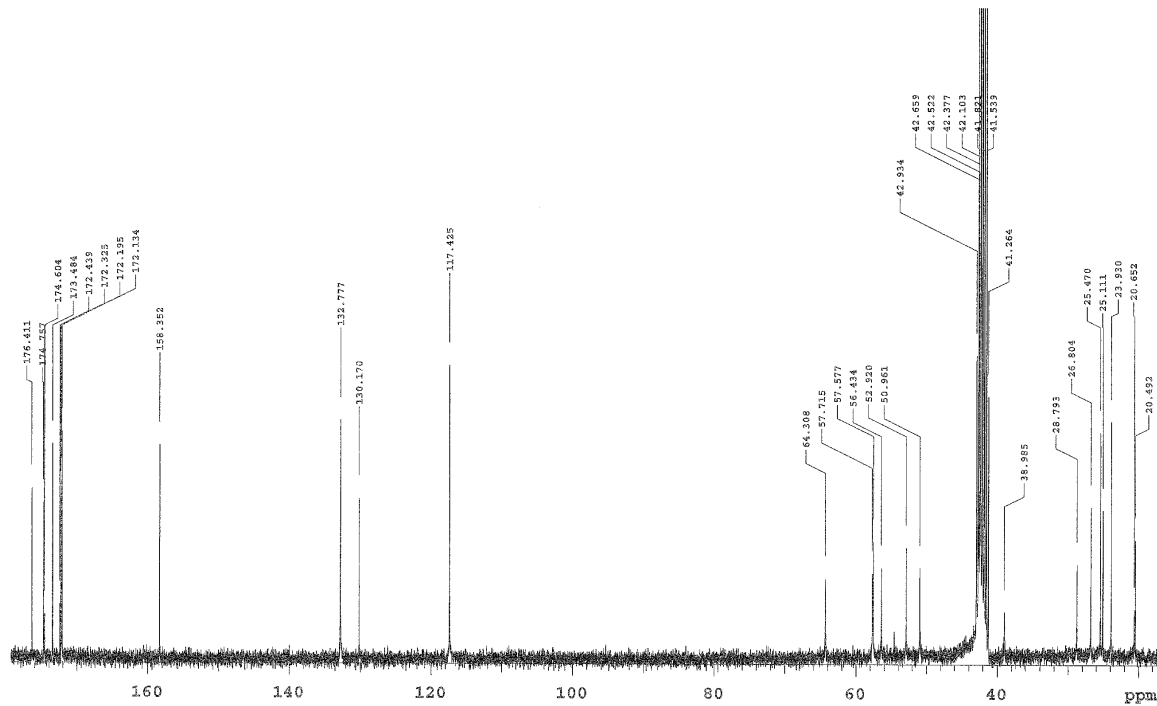


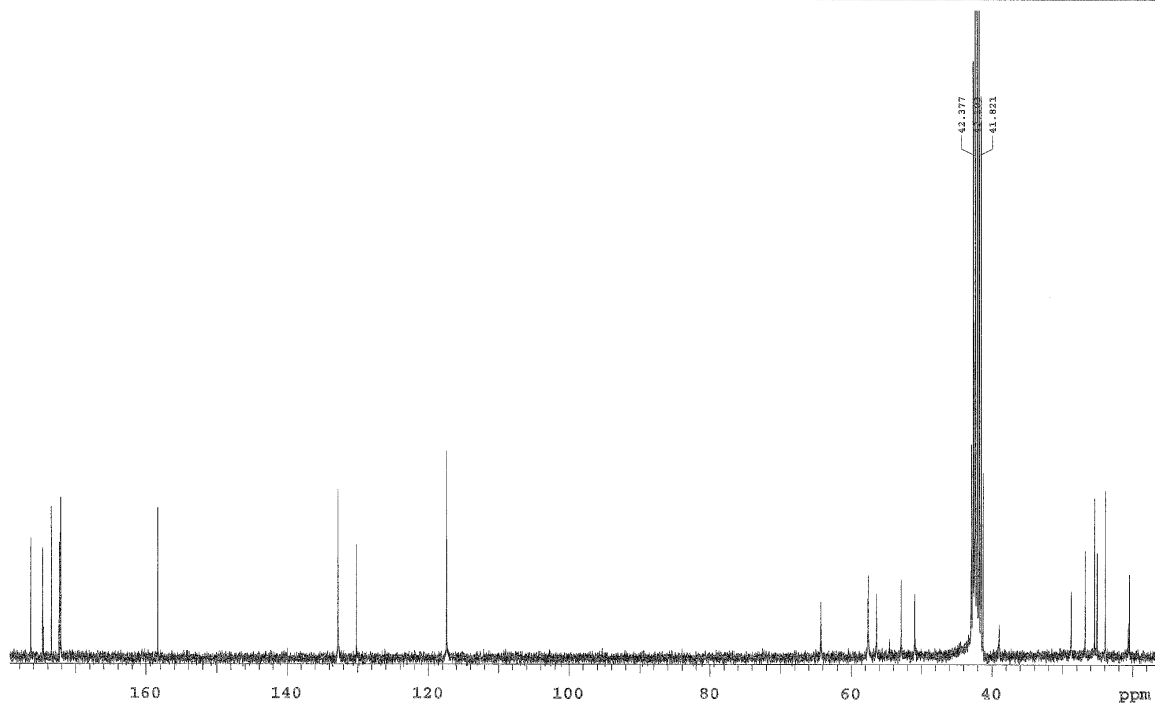




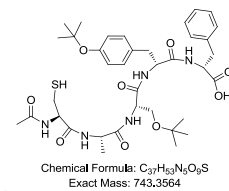








Data File D:\2014\CH...C DATA\DATA\CYCLISATION TIME COURSES 2015-12-09 08-41-41\LOADTEST.D
 Sample Name: S epi AIP I linear



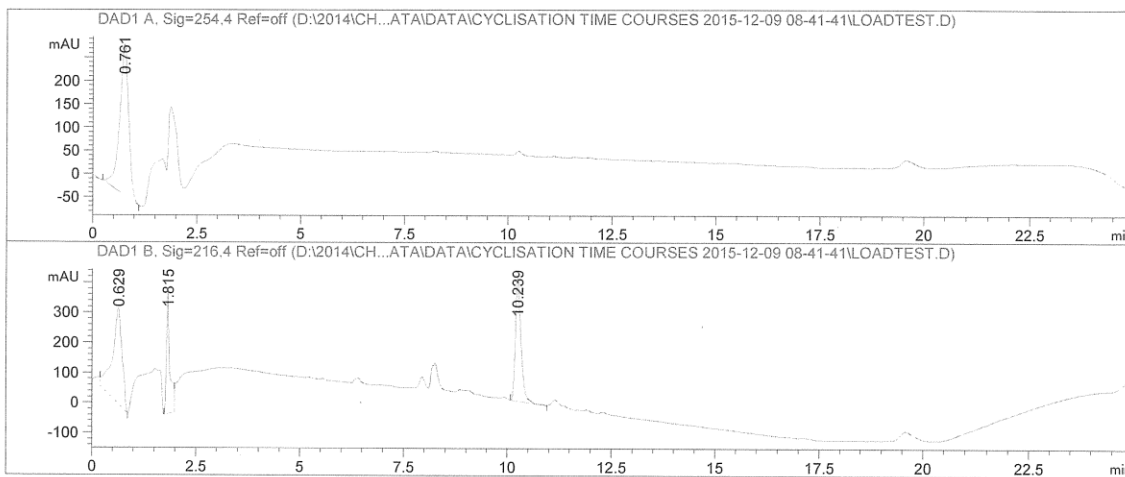
```

=====
Acq. Operator   : Simi120102015           Seq. Line :    1
Acq. Instrument : LC1260                  Location  : Vial 1
Injection Date  : 12/9/2015 8:43:37 AM    Inj       :    1
                                           Inj Volume: 40.000 µl

Acq. Method     : C:\CHEM32\1\DATA\DEMO\CYCLISATION TIME COURSES 2015-12-09 08-41-41\10 TO
                                           100 OV 15MIN 40UL.M

Last changed    : 12/9/2015 8:34:25 AM by Simi120102015
Analysis Method : D:\2014\CHRIS HPLC DATA\DATA\CYCLISATION TIME COURSES 2015-12-09 08-41-41
                                           \10 TO 100 OV 15MIN 40UL.M (Sequence Method)

Last changed    : 3/11/2016 3:03:37 PM by SYSTEM
                                           (modified after loading) (Current integration events modified)
=====
  
```



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

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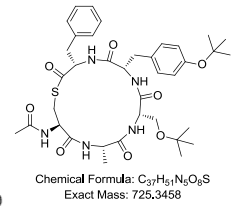
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
Use Multiplier & Dilution Factor with ISTDs
  
```

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

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	0.761	BB	0.2168	4873.58838	325.23016	100.0000

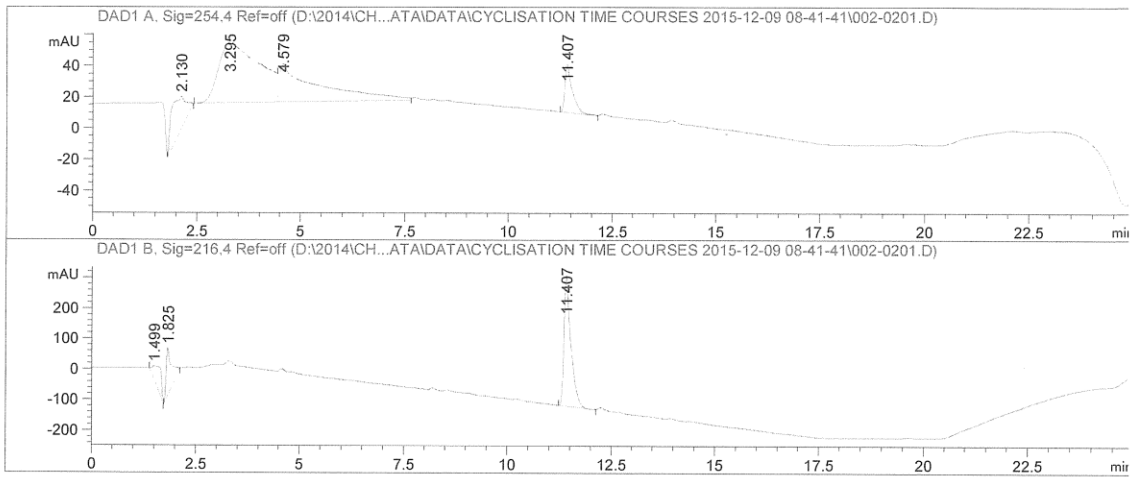
Totals : 4873.58838 325.23016

Data File D:\2014\CH...C DATA\DATA\CYCLISATION TIME COURSES 2015-12-09 08-41-41\002-0201.D
 Sample Name: Pro S epi AIP I



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=====
Acq. Operator   : Simi120102015           Seq. Line :    2
Acq. Instrument : LC1260                  Location  : Vial 2
Injection Date  : 12/9/2015 9:09:51 AM    Inj       :    1
                                           Inj Volume: 20.000 µl
Acq. Method     : C:\CHEM32\1\DATA\DEMO\CYCLISATION TIME COURSES 2015-12-09 08-41-41\10 TO
100 OV 15MIN 20UL.M
Last changed    : 12/9/2015 8:37:43 AM by Simi120102015
Analysis Method : D:\2014\CHRIS HPLC DATA\DATA\CYCLISATION TIME COURSES 2015-12-09 08-41-41
\10 TO 100 OV 15MIN 20UL.M (Sequence Method)
Last changed    : 3/11/2016 3:05:03 PM by SYSTEM
                 (modified after loading) (Current integration events modified)
=====
  
```



=====
 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	2.130	BB	0.3460	586.05396	20.71649	11.2059
2	3.295	BV	0.9111	2659.98999	39.12846	50.8616
3	4.579	VV	0.7974	1601.84705	24.41543	30.6289
4	11.407	BV	0.1722	381.96857	30.90078	7.3036

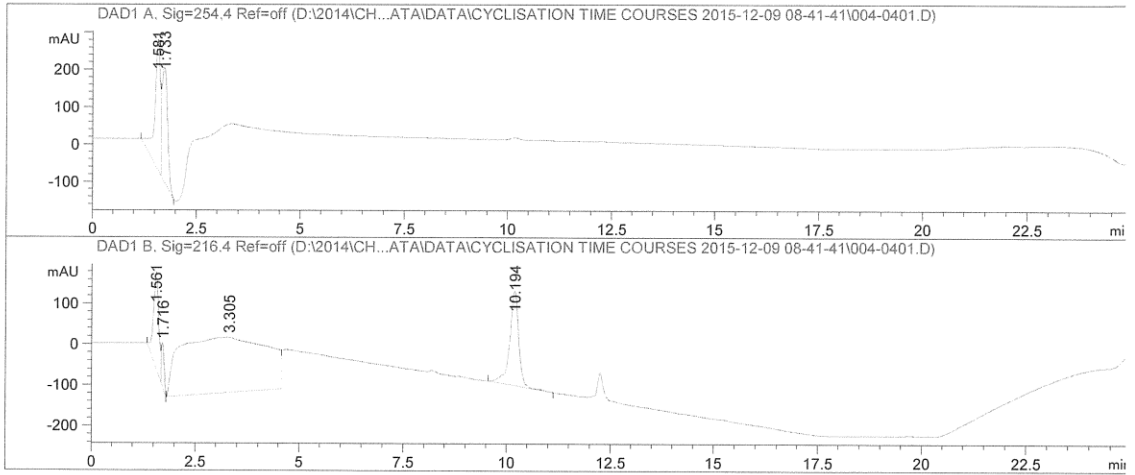
Totals : 5229.85956 115.16116

Data File D:\2014\CH...C DATA\DATA\CYCLISATION TIME COURSES 2015-12-09 08-41-41\004-0401.D
 Sample Name: Pro S epi AIP I EDCI T=1

```

=====
Acq. Operator   : Simi120102015           Seq. Line :    4
Acq. Instrument : LC1260                  Location  : Vial 4
Injection Date  : 12/9/2015 10:02:04 AM   Inj       :    1
                                           Inj Volume: 50.000 µl

Acq. Method     : C:\CHEM32\1\DATA\DEMO\CYCLISATION TIME COURSES 2015-12-09 08-41-41\10 TO
                  100 OV 15MIN 50UL.M
Last changed    : 12/9/2015 8:34:52 AM by Simi120102015
Analysis Method : D:\2014\CHRIS HPLC DATA\DATA\CYCLISATION TIME COURSES 2015-12-09 08-41-41
                  \10 TO 100 OV 15MIN 50UL.M (Sequence Method)
Last changed    : 3/11/2016 3:07:01 PM by SYSTEM
                  (modified after loading) (Current integration events modified)
=====
  
```



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 Area Percent Report
 =====

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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	1.581	BV	0.1396	3367.25024	352.04962	54.4977
2	1.733	VB	0.1370	2811.45020	306.56219	45.5023

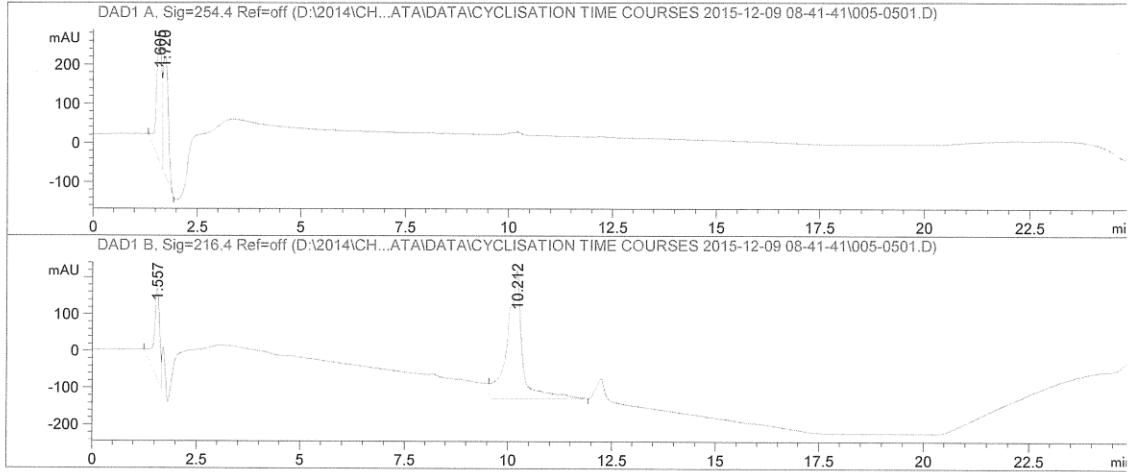
Totals : 6178.70044 658.61182

Data File D:\2014\CH...C DATA\DATA\CYCLISATION TIME COURSES 2015-12-09 08-41-41\005-0501.D
 Sample Name: Pro S epi AIP I EDCI T=2

```

=====
Acq. Operator   : Simi120102015           Seq. Line :    5
Acq. Instrument : LC1260                  Location  : Vial 5
Injection Date  : 12/9/2015 10:28:28 AM    Inj       :    1
                                           Inj Volume: 50.000 µl

Acq. Method     : C:\CHEM32\1\DATA\DEMO\CYCLISATION TIME COURSES 2015-12-09 08-41-41\10 TO
                 100 OV 15MIN 50UL.M
Last changed    : 12/9/2015 8:34:52 AM by Simi120102015
Analysis Method : D:\2014\CHRIS HPLC DATA\DATA\CYCLISATION TIME COURSES 2015-12-09 08-41-41
                 \10 TO 100 OV 15MIN 50UL.M (Sequence Method)
Last changed    : 3/11/2016 3:08:14 PM by SYSTEM
                 (modified after loading) (Current integration events modified)
=====
  
```



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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 A, Sig=254,4 Ref=off

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	1.605	BV	0.1429	2877.90430	320.21597	52.3450
2	1.720	VB	0.1291	2620.05444	321.40698	47.6550

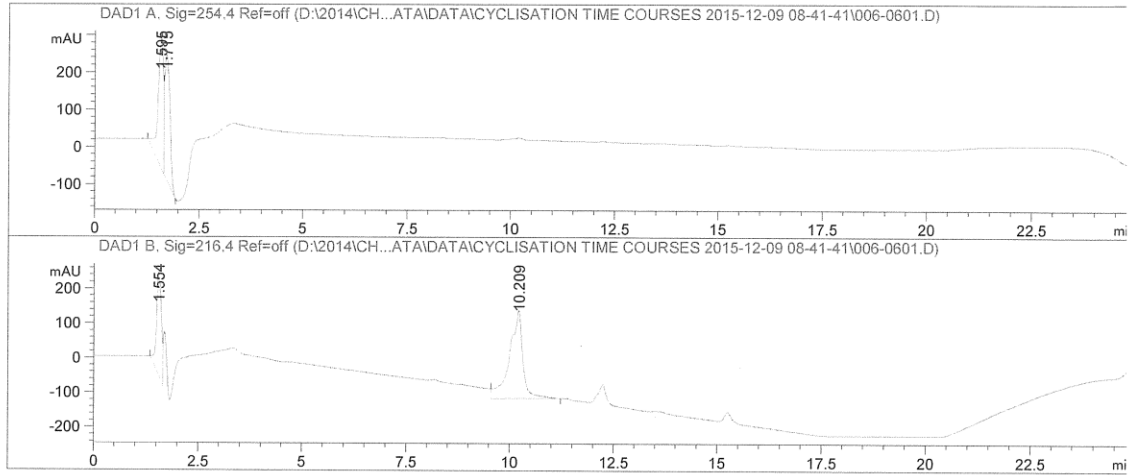
Totals : 5497.95874 641.62296

Data File D:\2014\CH...C DATA\DATA\CYCLISATION TIME COURSES 2015-12-09 08-41-41\006-0601.D
 Sample Name: Pro S epi AIP I EDCI T=3

```

=====
Acq. Operator   : Simi120102015           Seq. Line :    6
Acq. Instrument : LC1260                  Location  : Vial 6
Injection Date  : 12/9/2015 10:54:51 AM   Inj       :    1
                                           Inj Volume: 50.000 µl

Acq. Method    : C:\CHEM32\1\DATA\DEMO\CYCLISATION TIME COURSES 2015-12-09 08-41-41\10 TO
100 OV 15MIN 50UL.M
Last changed   : 12/9/2015 8:34:52 AM by Simi120102015
Analysis Method : D:\2014\CHRIS HPLC DATA\DATA\CYCLISATION TIME COURSES 2015-12-09 08-41-41
\10 TO 100 OV 15MIN 50UL.M (Sequence Method)
Last changed   : 3/11/2016 3:08:17 PM by SYSTEM
                (modified after loading) (Current integration events modified)
=====
  
```



=====
 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	1.595	BV	0.1423	3228.24658	347.73294	54.0304
2	1.715	VB	0.1271	2746.62378	337.04803	45.9696

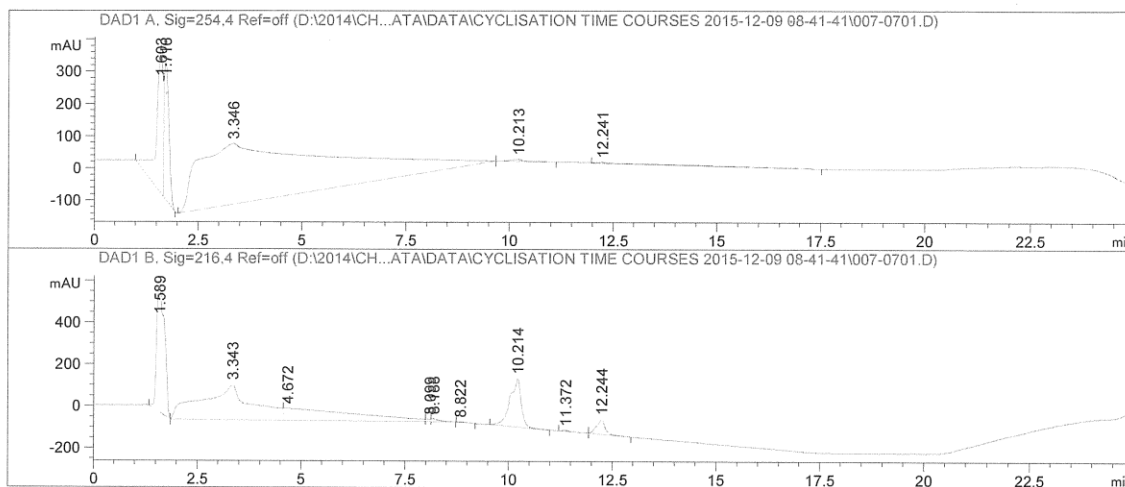
Totals : 5974.87036 684.78098

Data File D:\2014\CH...C DATA\DATA\CYCLISATION TIME COURSES 2015-12-09 08-41-41\007-0701.D
 Sample Name: Pro S epi AIP I EDCI T=4

```

=====
Acq. Operator   : Simi120102015           Seq. Line :    7
Acq. Instrument : LC1260                  Location  : Vial 7
Injection Date  : 12/9/2015 11:21:12 AM   Inj       :    1
                                           Inj Volume: 50.000 µl

Acq. Method     : C:\CHEM32\1\DATA\DEMO\CYCLISATION TIME COURSES 2015-12-09 08-41-41\10 TO
                  100 OV 15MIN 50UL.M
Last changed    : 12/9/2015 8:34:52 AM by Simi120102015
Analysis Method : D:\2014\CHRIS HPLC DATA\DATA\CYCLISATION TIME COURSES 2015-12-09 08-41-41
                  \10 TO 100 OV 15MIN 50UL.M (Sequence Method)
Last changed    : 12/9/2015 8:34:52 AM by Simi120102015
=====
  
```



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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 A, Sig=254,4 Ref=off

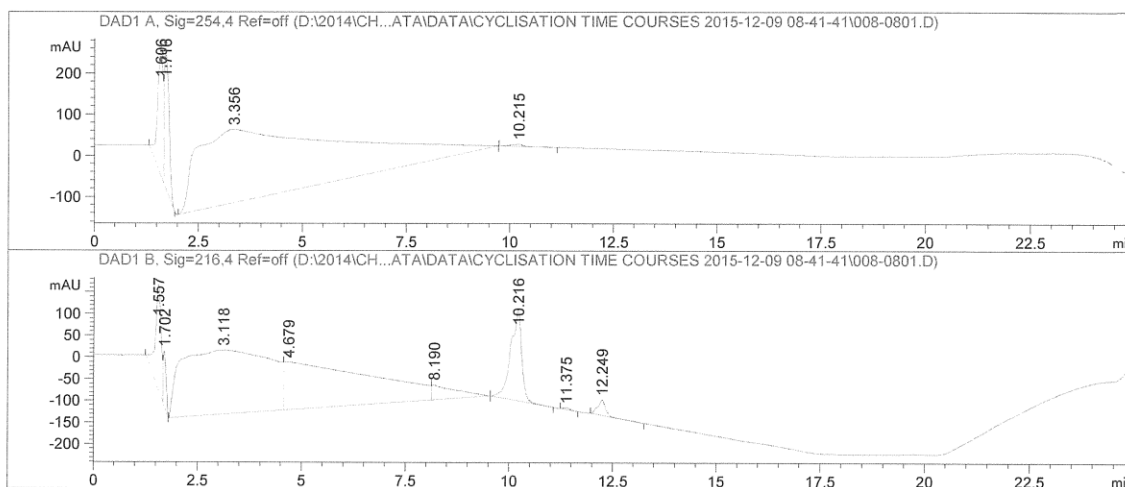
Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	1.603	BV	0.1725	5201.67871	458.07654	10.4150
2	1.716	VB	0.1248	3381.00098	425.11902	6.7696
3	3.346	BB	2.6305	4.09253e4	188.53644	81.9426
4	10.213	BB	0.2607	127.26412	6.43710	0.2548
5	12.241	BB	1.4487	308.64209	2.53808	0.6180

Totals : 4.99439e4 1080.70718

Data File D:\2014\CH...C DATA\DATA\CYCLISATION TIME COURSES 2015-12-09 08-41-41\008-0801.D
 Sample Name: Pro S epi AIP I EDCI T=5

```

=====
Acq. Operator   : Simi120102015           Seq. Line :    8
Acq. Instrument : LC1260                   Location  : Vial 8
Injection Date  : 12/9/2015 11:47:34 AM   Inj       :    1
                                           Inj Volume: 50.000 µl
Acq. Method    : C:\CHEM32\1\DATA\DEMO\CYCLISATION TIME COURSES 2015-12-09 08-41-41\10 TO
                100 OV 15MIN 50UL.M
Last changed   : 12/9/2015 8:34:52 AM by Simi120102015
Analysis Method: D:\2014\CHRIS HPLC DATA\DATA\CYCLISATION TIME COURSES 2015-12-09 08-41-41
                \10 TO 100 OV 15MIN 50UL.M (Sequence Method)
Last changed   : 12/9/2015 8:34:52 AM by Simi120102015
=====
  
```



=====
 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

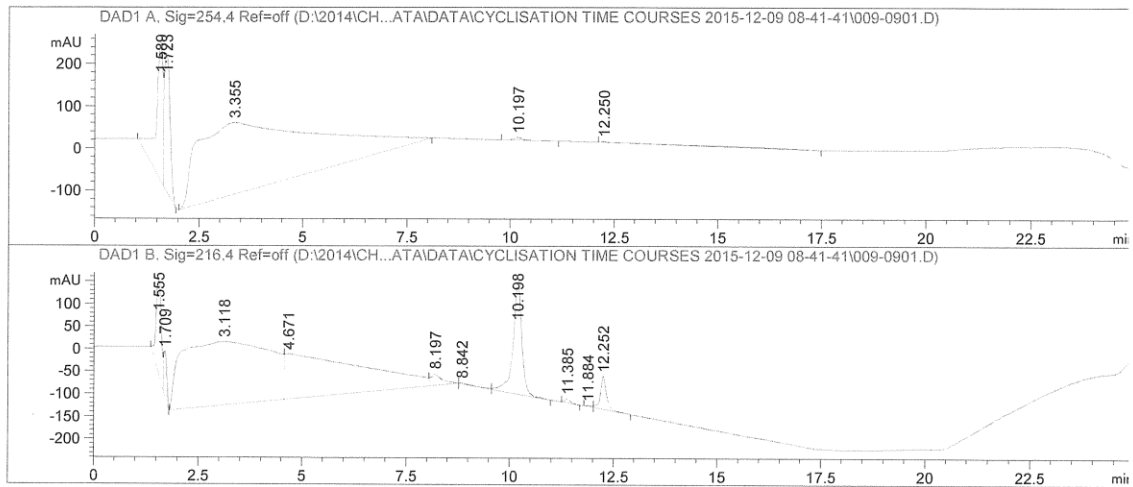
Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	1.606	BV	0.1476	2910.32202	315.53625	6.1846
2	1.716	VB	0.1274	2650.71338	330.95630	5.6329
3	3.356	BB	2.8918	4.13931e4	177.55893	87.9624
4	10.215	BB	0.2443	103.56112	5.58528	0.2201

Totals : 4.70577e4 829.63676

Data File D:\2014\CH...C DATA\DATA\CYCLISATION TIME COURSES 2015-12-09 08-41-41\009-0901.D
 Sample Name: Pro S epi AIP I EDCI T=6

```

=====
Acq. Operator   : Simi120102015           Seq. Line :    9
Acq. Instrument : LC1260                  Location  : Vial 9
Injection Date  : 12/9/2015 12:13:57 PM   Inj       :    1
                                           Inj Volume: 50.000 µl
Acq. Method     : C:\CHEM32\1\DATA\DEMO\CYCLISATION TIME COURSES 2015-12-09 08-41-41\10 TO
100 OV 15MIN 50UL.M
Last changed    : 12/9/2015 8:34:52 AM by Simi120102015
Analysis Method : D:\2014\CHRIS HPLC DATA\DATA\CYCLISATION TIME COURSES 2015-12-09 08-41-41
\10 TO 100 OV 15MIN 50UL.M (Sequence Method)
Last changed    : 12/9/2015 8:34:52 AM by Simi120102015
=====
  
```



=====
 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	1.589	BV	0.1806	4022.81079	329.05768	10.1141
2	1.723	VB	0.1354	2870.10156	323.77527	7.2160
3	3.355	BB	2.4141	3.25097e4	169.00912	81.7353
4	10.197	BB	0.2156	93.89954	6.45743	0.2361
5	12.250	BB	1.3976	277.87198	2.37042	0.6986

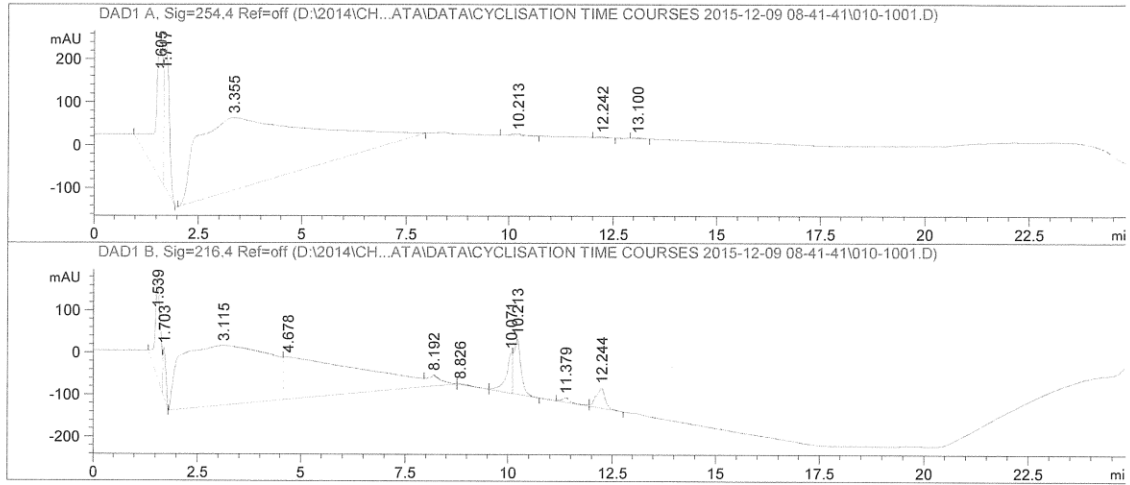
Totals : 3.97743e4 830.66993

Sample Name: Pro S epi AIP I EDCI T=7

```

=====
Acq. Operator   : Simi120102015           Seq. Line :   10
Acq. Instrument : LC1260                  Location  : Vial 10
Injection Date  : 12/9/2015 12:40:21 PM   Inj       :    1
                                           Inj Volume: 50.000 µl

Acq. Method    : C:\CHEM32\1\DATA\DEMO\CYCLISATION TIME COURSES 2015-12-09 08-41-41\10 TO
100 OV 15MIN 50UL.M
Last changed   : 12/9/2015 8:34:52 AM by Simi120102015
Analysis Method : D:\2014\CHRIS HPLC DATA\DATA\CYCLISATION TIME COURSES 2015-12-09 08-41-41
\10 TO 100 OV 15MIN 50UL.M (Sequence Method)
Last changed   : 12/9/2015 8:34:52 AM by Simi120102015
=====
    
```



=====
Area Percent Report
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```

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	1.605	BV	0.1772	4489.14160	329.06613	11.4893
2	1.717	VB	0.1265	2783.65601	343.53024	7.1244
3	3.355	BB	2.3539	3.16887e4	168.51677	81.1029
4	10.213	BB	0.2389	64.03980	3.57667	0.1639
5	12.242	BB	0.1880	22.24874	1.60204	0.0569
6	13.100	BB	0.2078	24.43504	1.87783	0.0625

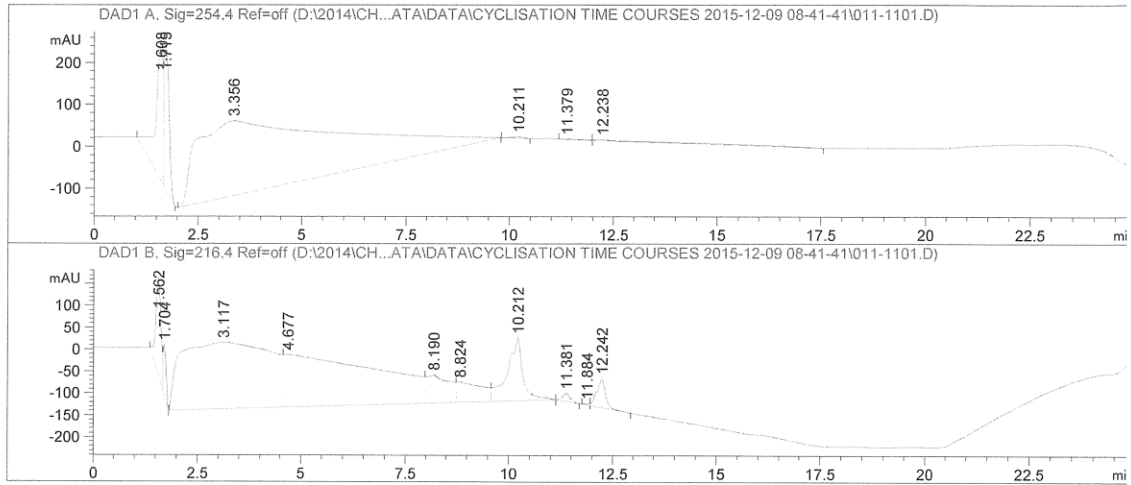
Totals : 3.90722e4 848.16968

Sample Name: Pro S epi AIP I EDCI T=8

```

=====
Acq. Operator   : Simi120102015           Seq. Line :   11
Acq. Instrument : LC1260                 Location  : Vial 11
Injection Date  : 12/9/2015 1:06:46 PM   Inj       :    1
                                           Inj Volume: 50.000 µl

Acq. Method     : C:\CHEM32\1\DATA\DEMO\CYCLISATION TIME COURSES 2015-12-09 08-41-41\10 TO
100 OV 15MIN 50UL.M
Last changed    : 12/9/2015 8:34:52 AM by Simi120102015
Analysis Method : D:\2014\CHRIS HPLC DATA\DATA\CYCLISATION TIME COURSES 2015-12-09 08-41-41
\10 TO 100 OV 15MIN 50UL.M (Sequence Method)
Last changed    : 12/9/2015 8:34:52 AM by Simi120102015
=====
    
```



=====
Area Percent Report
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```

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	1.608	BV	0.1869	4166.40869	335.40826	8.4552
2	1.715	VB	0.1096	2818.24805	343.94464	5.7193
3	3.356	BB	2.9109	4.17501e4	177.70731	84.7267
4	10.211	BB	0.2299	58.64925	3.42352	0.1190
5	11.379	BV	0.3491	37.02816	1.39740	0.0751
6	12.238	VB	1.7572	445.76926	3.01096	0.9046

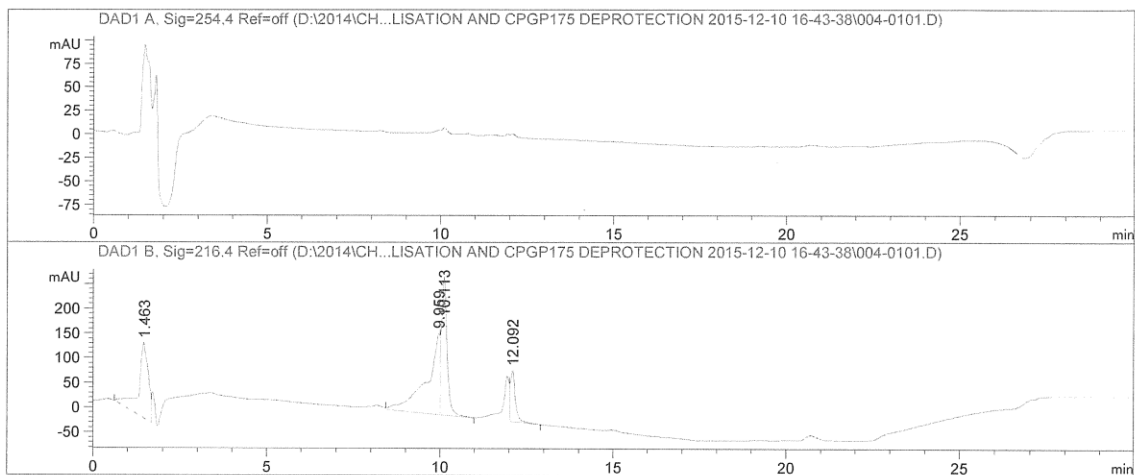
Totals : 4.92762e4 864.89209

Data File D:\2014\CH...CYCLISATION AND CPGP175 DEPROTECTION 2015-12-10 16-43-38\004-0101.D
 Sample Name: Pro S epi AIP I EDCI T=1

```

=====
Acq. Operator   : Simi120102015           Seq. Line :    1
Acq. Instrument : LC1260                  Location  : Vial 4
Injection Date  : 12/10/2015 4:45:50 PM   Inj       :    1
                                           Inj Volume: 100.000 µl

Acq. Method     : C:\CHEM32\1\DATA\DEMO\CYCLISATION AND CPGP175 DEPROTECTION 2015-12-10 16-43-38\10 TO 100 OV 15MIN 100UL.M
Last changed    : 12/10/2015 4:12:03 PM by Simi120102015
Analysis Method : D:\2014\CHRIS HPLC DATA\DATA\CYCLISATION AND CPGP175 DEPROTECTION 2015-12-10 16-43-38\10 TO 100 OV 15MIN 100UL.M (Sequence Method)
Last changed    : 12/14/2015 1:10:24 PM by Simi120102015
                 (modified after loading) (Current integration events modified)
=====
  
```



=====
 Area Percent Report
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```

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

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

Signal 2: DAD1 B, Sig=216,4 Ref=off

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	1.463	BV	0.2446	3036.20068	153.58002	26.0546
2	9.959	VV	0.3315	4390.29346	164.40900	37.6746
3	10.113	VB	0.1585	(3154.84546)	277.88388	27.0728
4	12.092	VB	0.1419	1071.86414	104.28788	9.1980

Totals : 1.16532e4 700.16077

Sample Name: Pro S epi AIP I EDCI T=2

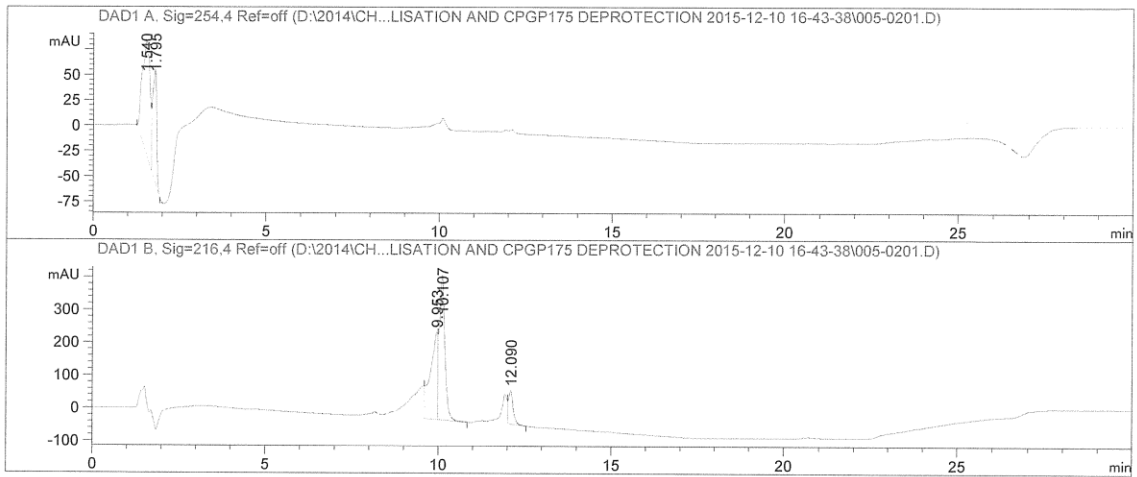
```

=====
Acq. Operator   : Simi120102015           Seq. Line :    2
Acq. Instrument : LC1260                  Location  : Vial 5
Injection Date  : 12/10/2015 5:17:40 PM   Inj       :    1
                                           Inj Volume: 100.000 µl

Acq. Method     : C:\CHEM32\1\DATA\DEMO\CYCLISATION AND CPGP175 DEPROTECTION 2015-12-10 16-43-38\10 TO 100 OV 15MIN 100UL.M

Last changed    : 12/10/2015 4:12:03 PM by Simi120102015
Analysis Method : D:\2014\CHRIS HPLC DATA\DATA\CYCLISATION AND CPGP175 DEPROTECTION 2015-12-10 16-43-38\10 TO 100 OV 15MIN 100UL.M (Sequence Method)

Last changed    : 3/15/2016 8:54:32 AM by SYSTEM
                 (modified after loading) (Current integration events modified)
=====
    
```



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	1.540	BV	0.1986	1781.25818	112.59834	67.5538
2	1.795	VB	0.1072	855.54169	111.93997	32.4462

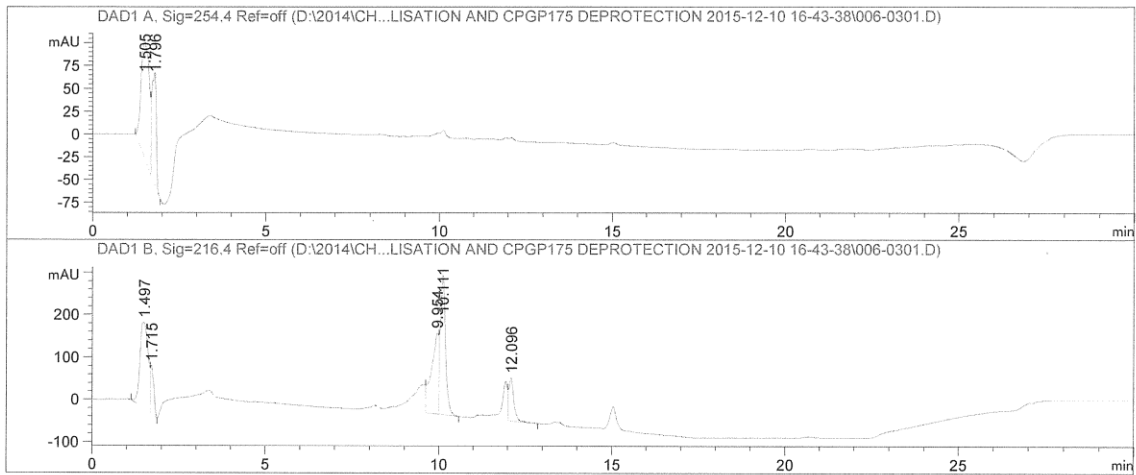
Totals : 2636.79987 224.53831

Sample Name: Pro S epi AIP I EDCI T=3

```

=====
Acq. Operator   : Simi120102015           Seq. Line :    3
Acq. Instrument : LC1260                 Location  : Vial 6
Injection Date  : 12/10/2015 5:49:29 PM   Inj       :    1
                                           Inj Volume: 100.000 µl

Acq. Method     : C:\CHEM32\1\DATA\DEMO\CYCLISATION AND CPGP175 DEPROTECTION 2015-12-10 16-43
                  -38\10 TO 100 OV 15MIN 100UL.M
Last changed    : 12/10/2015 4:12:03 PM by Simi120102015
Analysis Method : D:\2014\CHRIS HPLC DATA\DATA\CYCLISATION AND CPGP175 DEPROTECTION 2015-12-
                  10 16-43-38\10 TO 100 OV 15MIN 100UL.M (Sequence Method)
Last changed    : 3/15/2016 8:54:32 AM by SYSTEM
                  (modified after loading) (Current integration events modified)
=====
    
```



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	1.505	BV	0.2453	2191.87305	128.33954	68.0926
2	1.796	VB	0.1123	1027.08752	124.38364	31.9074

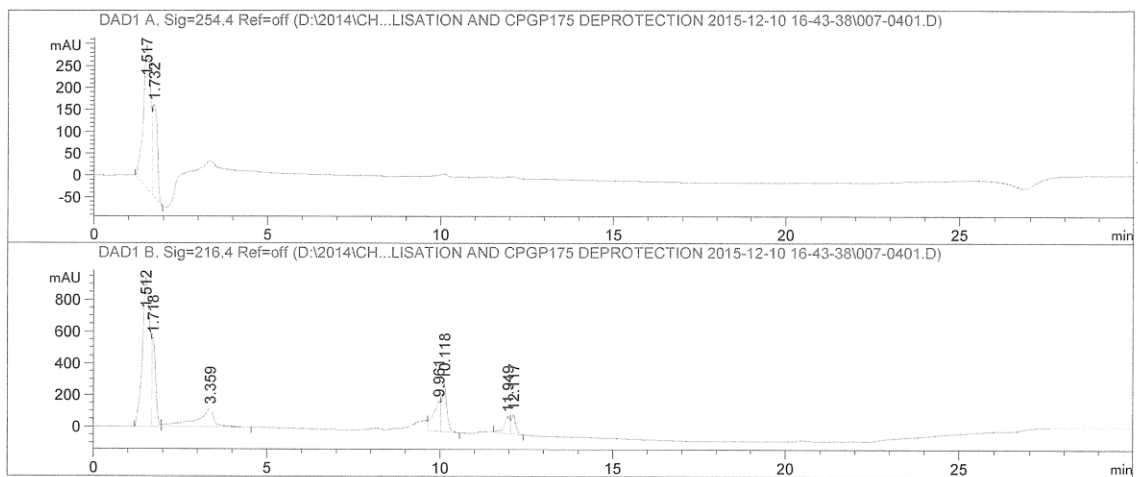
Totals : 3218.96057 252.72318

Sample Name: Pro S epi AIP I EDCI T=4

```

=====
Acq. Operator   : Simi120102015           Seq. Line :    4
Acq. Instrument : LC1260                  Location  : Vial 7
Injection Date  : 12/10/2015 6:21:19 PM   Inj       :    1
                                           Inj Volume: 100.000 µl

Acq. Method     : C:\CHEM32\1\DATA\DEMO\CYCLISATION AND CPGP175 DEPROTECTION 2015-12-10 16-43-38\10 TO 100 OV 15MIN 100UL.M
Last changed    : 12/10/2015 4:12:03 PM by Simi120102015
Analysis Method : D:\2014\CHRIS HPLC DATA\DATA\CYCLISATION AND CPGP175 DEPROTECTION 2015-12-10 16-43-38\10 TO 100 OV 15MIN 100UL.M (Sequence Method)
Last changed    : 3/15/2016 8:55:17 AM by SYSTEM
                 (modified after loading) (Current integration events modified)
=====
    
```



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Area Percent Report
=====

```

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

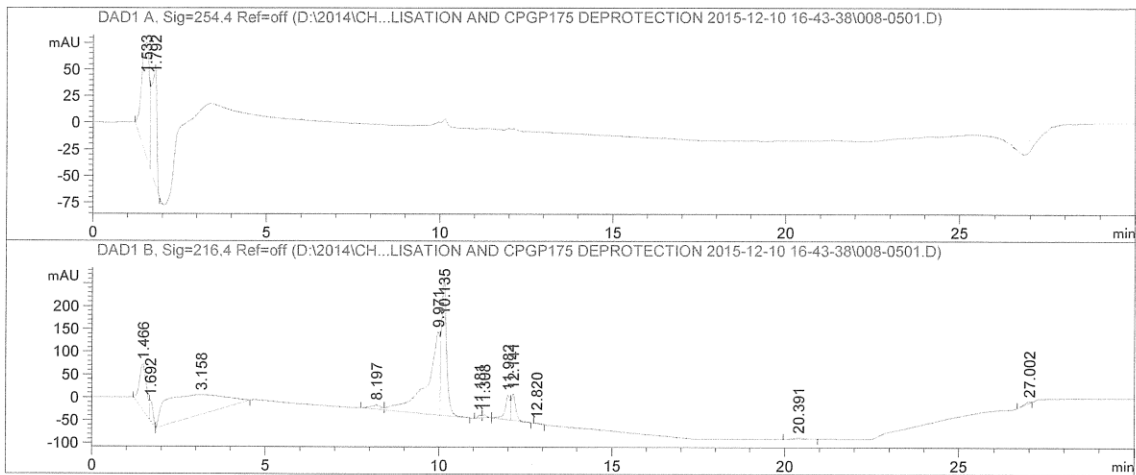
Signal 1: DAD1 A, Sig=254,4 Ref=off

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	1.517	BV	0.1917	4909.50439	326.01376	72.3912
2	1.732	VB	0.1158	1872.40393	210.45964	27.6088

Totals : 6781.90833 536.47340

```

=====
Acq. Operator   : Simi120102015           Seq. Line :    5
Acq. Instrument : LC1260                   Location  : Vial 8
Injection Date  : 12/10/2015 6:53:08 PM   Inj       :    1
                                           Inj Volume: 100.000 µl
Acq. Method    : C:\CHEM32\1\DATA\DEMO\CYCLISATION AND CPGP175 DEPROTECTION 2015-12-10 16-43-38\10 TO 100 OV 15MIN 100UL.M
Last changed   : 12/10/2015 4:12:03 PM by Simi120102015
Analysis Method : D:\2014\CHRIS HPLC DATA\DATA\CYCLISATION AND CPGP175 DEPROTECTION 2015-12-10 16-43-38\10 TO 100 OV 15MIN 100UL.M (Sequence Method)
Last changed   : 3/15/2016 8:56:26 AM by SYSTEM
                (modified after loading) (Current integration events modified)
=====
    
```



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 Area Percent Report
 =====

```

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

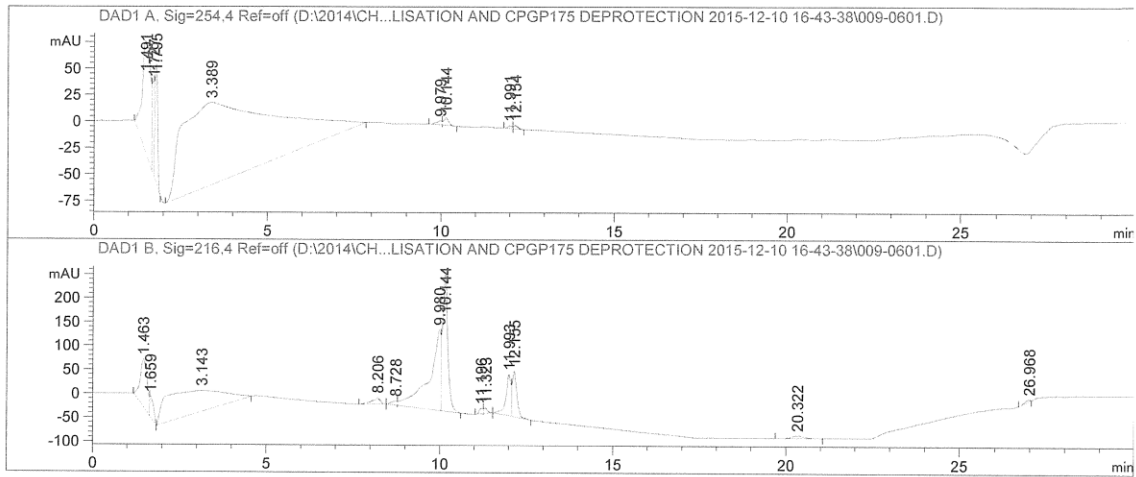
Signal 1: DAD1 A, Sig=254,4 Ref=off

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	1.533	BV	0.2171	1665.01831	107.28703	60.6916
2	1.792	VB	0.1301	1078.38867	112.23992	39.3084

Totals : 2743.40698 219.52695

```

=====
Acq. Operator   : Simi120102015           Seq. Line :    6
Acq. Instrument : LC1260                 Location  : Vial 9
Injection Date  : 12/10/2015 7:24:58 PM   Inj       :    1
                                           Inj Volume: 100.000 µl
Acq. Method     : C:\CHEM32\1\DATA\DEMO\CYCLISATION AND CPGP175 DEPROTECTION 2015-12-10 16-43-38\10 TO 100 OV 15MIN 100UL.M
Last changed    : 12/10/2015 4:12:03 PM by Simi120102015
Analysis Method : D:\2014\CHRIS HPLC DATA\DATA\CYCLISATION AND CPGP175 DEPROTECTION 2015-12-10 16-43-38\10 TO 100 OV 15MIN 100UL.M (Sequence Method)
Last changed    : 3/15/2016 8:56:35 AM by SYSTEM
                 (modified after loading) (Current integration events modified)
=====
  
```



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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 A, Sig=254,4 Ref=off

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	1.491	BV	0.2361	1843.86450	105.40421	10.8162
2	1.727	VV	0.0568	341.28214	89.78984	2.0020
3	1.795	VB	0.0843	635.22333	111.85163	3.7263
4	3.389	BB	2.2422	1.40668e4	77.69736	82.5165
5	9.979	BV	0.1553	42.23698	3.69582	0.2478
6	10.144	VB	0.1404	69.88574	7.12447	0.4100
7	11.991	BV	0.1196	21.28784	2.54482	0.1249
8	12.154	VB	0.1232	26.67034	3.07549	0.1564

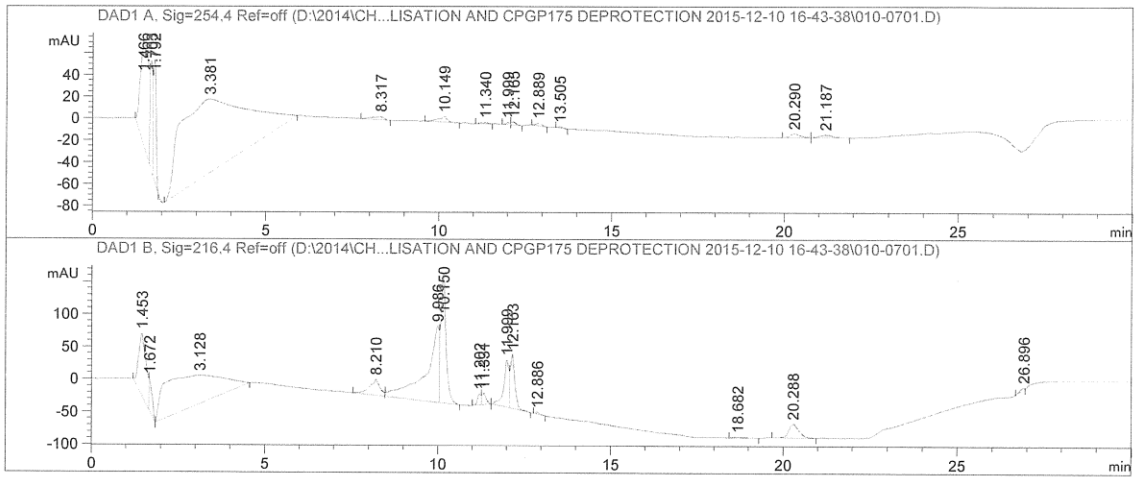
Totals : 1.70472e4 401.18364

Data File D:\2014\CH...CYCLISATION AND CPGP175 DEPROTECTION 2015-12-10 16-43-38\010-0701.D
 Sample Name: Pro S epi AIP I EDCI T=7

```

=====
Acq. Operator   : Simi120102015           Seq. Line :    7
Acq. Instrument : LC1260                  Location  : Vial 10
Injection Date  : 12/10/2015 7:56:50 PM   Inj       :    1
                                           Inj Volume: 100.000 µl

Acq. Method     : C:\CHEM32\1\DATA\DEMO\CYCLISATION AND CPGP175 DEPROTECTION 2015-12-10 16-43-38\10 TO 100 OV 15MIN 100UL.M
Last changed    : 12/10/2015 4:12:03 PM by Simi120102015
Analysis Method : D:\2014\CHRIS HPLC DATA\DATA\CYCLISATION AND CPGP175 DEPROTECTION 2015-12-10 16-43-38\10 TO 100 OV 15MIN 100UL.M (Sequence Method)
Last changed    : 3/15/2016 8:56:55 AM by SYSTEM
                 (modified after loading) (Current integration events modified)
=====
  
```



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

```

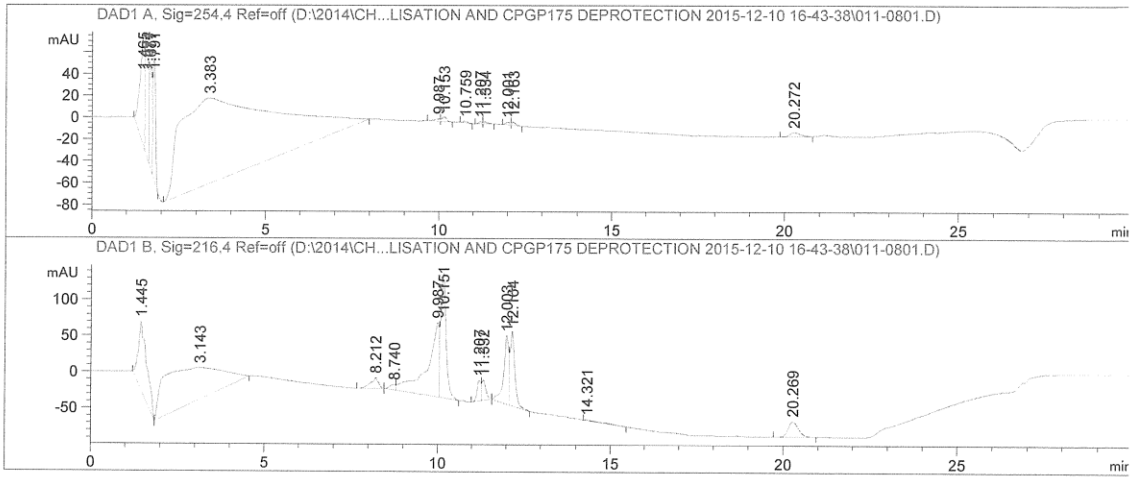
Sorted By      : Signal
Multiplier     : 1.0000
Dilution      : 1.0000
Use Multiplier & Dilution Factor with ISTDs
  
```

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

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	1.466	BV	0.2237	1583.25232	94.39129	13.0924
2	1.703	VV	0.0786	556.03668	100.40852	4.5980
3	1.792	VB	0.0808	579.42816	111.17802	4.7915
4	3.381	BB	1.6932	8997.04297	67.75424	74.3994
5	8.317	BB	0.2922	67.80720	3.03977	0.5607
6	10.149	BB	0.2199	86.47871	5.20270	0.7151
7	11.340	BB	0.2114	18.46382	1.17442	0.1527
8	11.999	BV	0.1154	16.60037	2.07312	0.1373
9	12.165	VB	0.1302	26.37010	2.89770	0.2181
10	12.889	BB	0.1486	27.80781	2.64722	0.2300

```

=====
Acq. Operator   : Simi120102015           Seq. Line :    8
Acq. Instrument : LC1260                  Location  : Vial 11
Injection Date  : 12/10/2015 8:28:43 PM   Inj       :    1
                                           Inj Volume: 100.000 µl
Acq. Method    : C:\CHEM32\1\DATA\DEMO\CYCLISATION AND CPGP175 DEPROTECTION 2015-12-10 16-43-38\10 TO 100 OV 15MIN 100UL.M
Last changed   : 12/10/2015 4:12:03 PM by Simi120102015
Analysis Method: D:\2014\CHRIS HPLC DATA\DATA\CYCLISATION AND CPGP175 DEPROTECTION 2015-12-10 16-43-38\10 TO 100 OV 15MIN 100UL.M (Sequence Method)
Last changed   : 3/15/2016 8:57:13 AM by SYSTEM
                (modified after loading) (Current integration events modified)
=====
  
```



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 Area Percent Report
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```

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

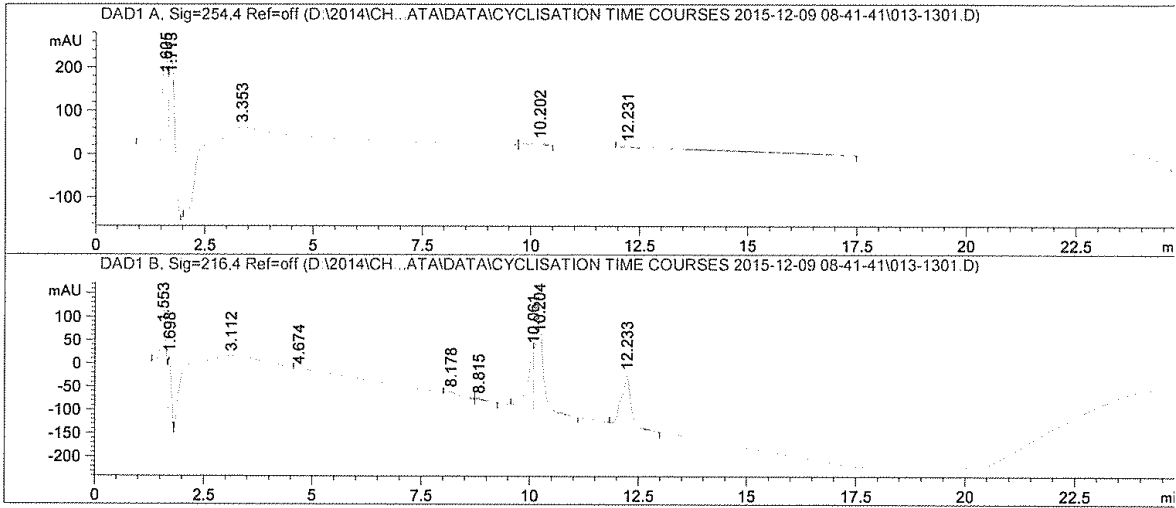
Signal 1: DAD1 A, Sig=254,4 Ref=off

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	1.465	BV	0.1316	937.44293	96.23300	5.3705
2	1.574	VV	0.0891	667.00934	103.61787	3.8212
3	1.677	VV	0.0874	542.16125	93.82185	3.1060
4	1.791	VB	0.0814	608.92010	112.03243	3.4884
5	3.383	BB	2.2716	1.44600e4	78.48016	82.8390
6	9.987	BV	0.1528	25.63412	2.25257	0.1469
7	10.153	VB	0.1351	41.03677	4.38950	0.2351
8	10.759	BB	0.1353	13.90667	1.51162	0.0797
9	11.207	BV	0.1033	13.99164	2.00774	0.0802
10	11.334	VB	0.1380	20.33339	2.08010	0.1165

Data File D:\2014\CH...C DATA\DATA\CYCLISATION TIME COURSES 2015-12-09 08-41-41\013-1301.D
 Sample Name: Pro S epi AIP I DCC T=1

```

=====
Acq. Operator   : Simi120102015           Seq. Line :   13
Acq. Instrument : LC1260                  Location  : Vial 13
Injection Date  : 12/9/2015 1:59:28 PM    Inj       :    1
                                           Inj Volume: 50.000 µl
Acq. Method     : C:\CHEM32\1\DATA\DEMO\CYCLISATION TIME COURSES 2015-12-09 08-41-41\10 TO
                                           100 OV 15MIN 50UL.M
Last changed    : 12/9/2015 8:34:52 AM by Simi120102015
Analysis Method : D:\2014\CHRIS HPLC DATA\DATA\CYCLISATION TIME COURSES 2015-12-09 08-41-41
                                           \10 TO 100 OV 15MIN 50UL.M (Sequence Method)
Last changed    : 12/9/2015 8:34:52 AM by Simi120102015
=====
  
```



=====
 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

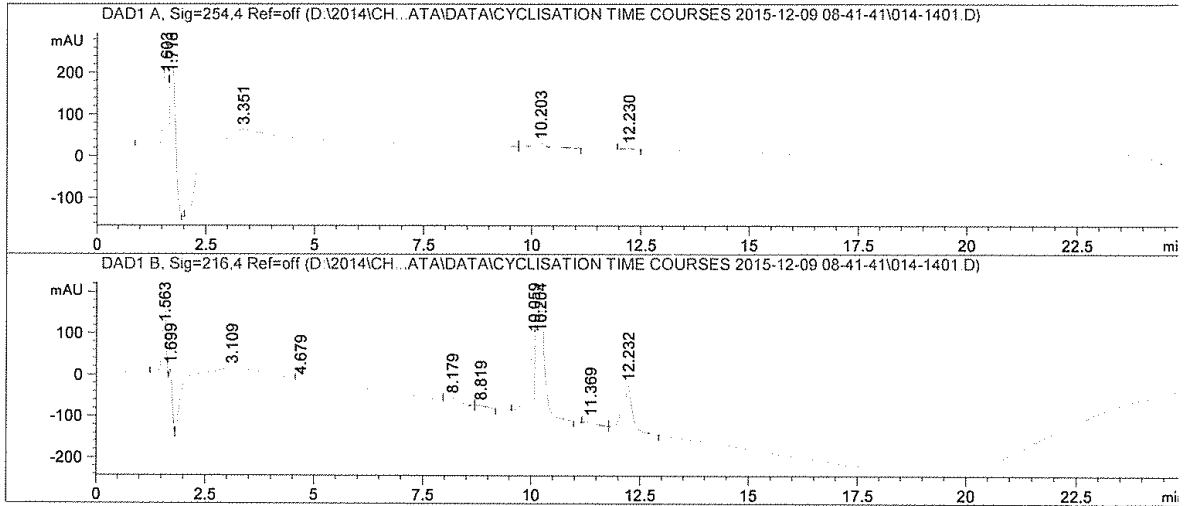
Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	1.605	BV	0.1915	4572.15869	347.44028	9.2912
2	1.713	VB	0.1272	2888.10840	353.98679	5.8690
3	3.353	BB	2.8775	4.13539e4	177.40935	84.0364
4	10.202	BB	0.2351	90.66362	5.15845	0.1842
5	12.231	BB	0.9588	304.67273	3.82686	0.6191

Totals : 4.92095e4 887.82172

Data File D:\2014\CH...C DATA\DATA\CYCLISATION TIME COURSES 2015-12-09 08-41-41\014-1401.D
 Sample Name: Pro S epi AIP I DCC T=2

```

=====
Acq. Operator   : Simi120102015           Seq. Line : 14
Acq. Instrument : LC1260                  Location  : Vial 14
Injection Date  : 12/9/2015 2:25:50 PM    Inj       : 1
                                           Inj Volume: 50.000 µl
Acq. Method     : C:\CHEM32\1\DATA\DEMO\CYCLISATION TIME COURSES 2015-12-09 08-41-41\10 TO
                                           100 OV 15MIN 50UL.M
Last changed    : 12/9/2015 8:34:52 AM by Simi120102015
Analysis Method : D:\2014\CHRIS HPLC DATA\DATA\CYCLISATION TIME COURSES 2015-12-09 08-41-41
                                           \10 TO 100 OV 15MIN 50UL.M (Sequence Method)
Last changed    : 12/9/2015 8:34:52 AM by Simi120102015
=====
  
```



=====
 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

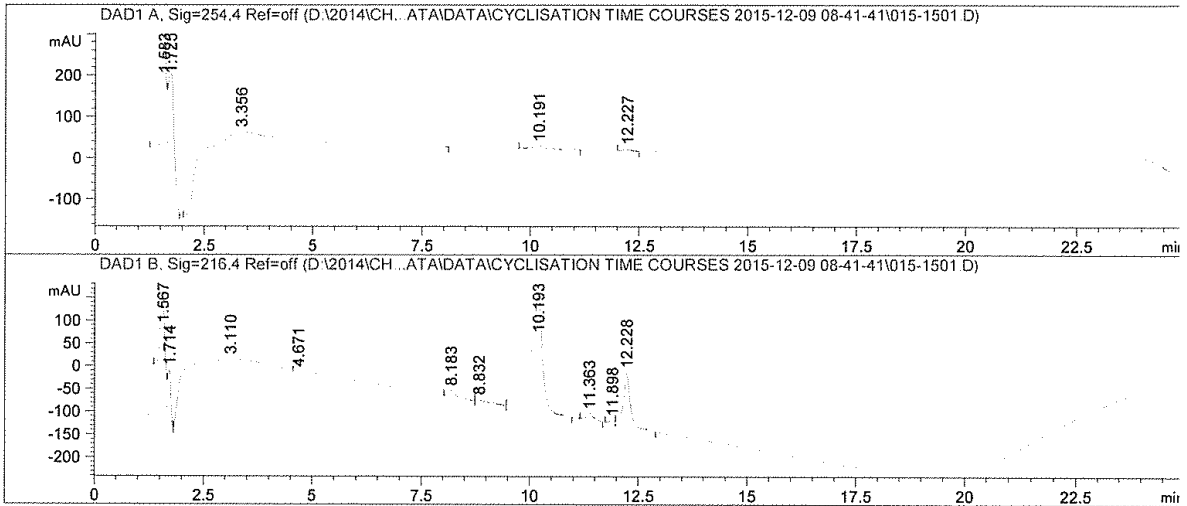
Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	1.603	BV	0.1872	4779.18799	363.93860	9.7463
2	1.716	VB	0.1259	2873.19458	357.02588	5.8593
3	3.351	BB	2.8653	4.11772e4	177.31512	83.9732
4	10.203	BB	0.2592	161.51819	8.15060	0.3294
5	12.230	BB	0.1792	44.99989	3.51958	0.0918

Totals : 4.90361e4 909.94977

Data File D:\2014\CH...C DATA\DATA\CYCLISATION TIME COURSES 2015-12-09 08-41-41\015-1501.D
 Sample Name: Pro S epi AIP I DCC T=3

```

=====
Acq. Operator   : Simi120102015           Seq. Line :   15
Acq. Instrument : LC1260                 Location  : Vial 15
Injection Date  : 12/9/2015 2:52:11 PM   Inj       :    1
                                           Inj Volume: 50.000 µl
Acq. Method     : C:\CHEM32\1\DATA\DEMO\CYCLISATION TIME COURSES 2015-12-09 08-41-41\10 TO
                                           100 OV 15MIN 50UL.M
Last changed    : 12/9/2015 8:34:52 AM by Simi120102015
Analysis Method : D:\2014\CHRIS HPLC DATA\DATA\CYCLISATION TIME COURSES 2015-12-09 08-41-41
                                           \10 TO 100 OV 15MIN 50UL.M (Sequence Method)
Last changed    : 12/9/2015 8:34:52 AM by Simi120102015
=====
  
```



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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 A, Sig=254,4 Ref=off

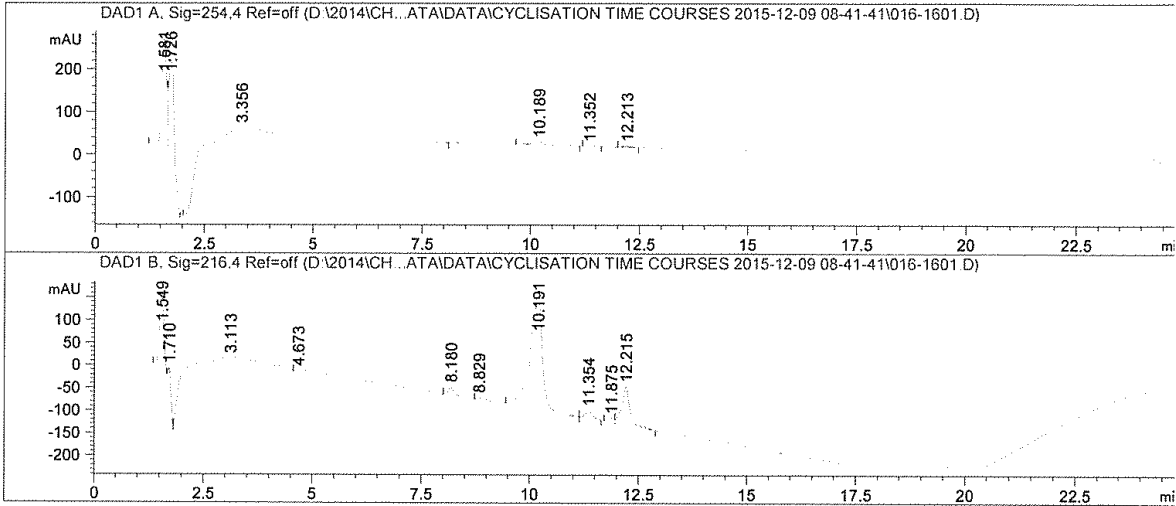
Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	1.583	BV	0.1199	2985.13208	335.22275	7.7443
2	1.725	VB	0.1354	2756.44702	311.15768	7.1510
3	3.356	BB	2.4180	3.26423e4	169.10605	84.6840
4	10.191	BB	0.2544	122.40668	6.72286	0.3176
5	12.227	BB	0.1463	39.73694	3.98539	0.1031

Totals : 3.85461e4 826.19473

Data File D:\2014\CH...C DATA\DATA\CYCLISATION TIME COURSES 2015-12-09 08-41-41\016-1601.D
 Sample Name: Pro S epi AIP I DCC T=4

```

=====
Acq. Operator   : Simi120102015           Seq. Line :   16
Acq. Instrument : LC1260                  Location  : Vial 16
Injection Date  : 12/9/2015 3:18:32 PM    Inj       :    1
                                           Inj Volume: 50.000 µl
Acq. Method     : C:\CHEM32\1\DATA\DEMO\CYCLISATION TIME COURSES 2015-12-09 08-41-41\10 TO
                                           100 OV 15MIN 50UL.M
Last changed    : 12/9/2015 8:34:52 AM by Simi120102015
Analysis Method : D:\2014\CHRIS HPLC DATA\DATA\CYCLISATION TIME COURSES 2015-12-09 08-41-41
                                           \10 TO 100 OV 15MIN 50UL.M (Sequence Method)
Last changed    : 12/9/2015 8:34:52 AM by Simi120102015
=====
  
```



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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 A, Sig=254,4 Ref=off

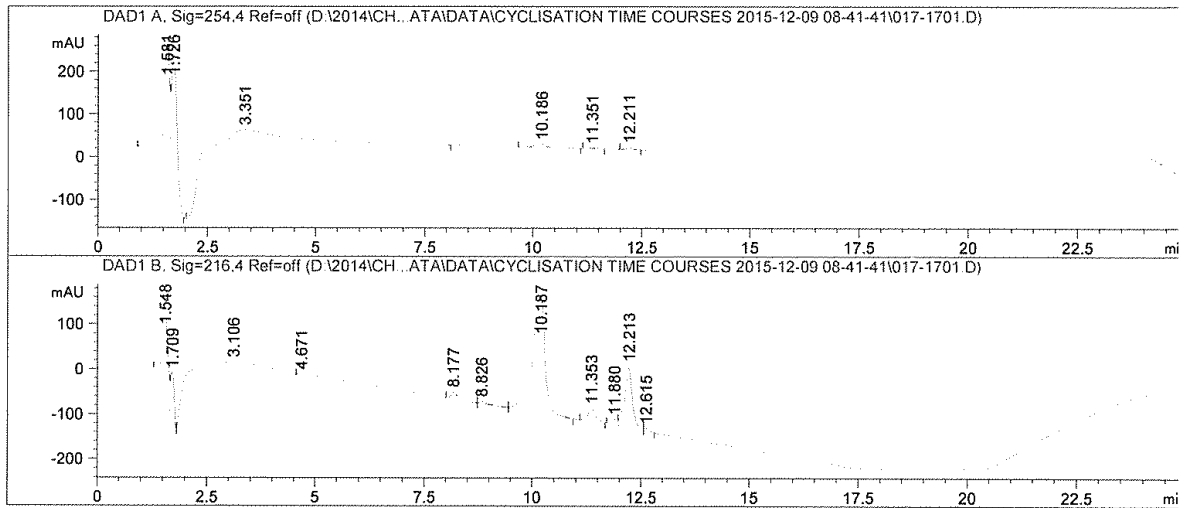
Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	1.581	BV	0.1490	3199.37695	324.70987	8.2637
2	1.726	VB	0.1294	2664.96948	312.72717	6.8833
3	3.356	BB	2.4054	3.26748e4	169.76886	84.3956
4	10.189	BB	0.2567	137.00867	7.04991	0.3539
5	11.352	BB	0.1482	10.37941	1.04253	0.0268
6	12.213	BB	0.1620	29.70581	2.75120	0.0767

Totals : 3.87163e4 818.04955

Data File D:\2014\CH...C DATA\DATA\CYCLISATION TIME COURSES 2015-12-09 08-41-41\017-1701.D
 Sample Name: Pro S epi AIP I DCC T=5

```

=====
Acq. Operator   : Simi120102015           Seq. Line :   17
Acq. Instrument : LC1260                  Location  : Vial 17
Injection Date  : 12/9/2015 3:44:54 PM    Inj       :    1
                                           Inj Volume: 50.000 µl
Acq. Method     : C:\CHEM32\1\DATA\DEMO\CYCLISATION TIME COURSES 2015-12-09 08-41-41\10 TO
                  100 OV 15MIN 50UL.M
Last changed    : 12/9/2015 8:34:52 AM by Simi120102015
Analysis Method : D:\2014\CHRIS HPLC DATA\DATA\CYCLISATION TIME COURSES 2015-12-09 08-41-41
                  \10 TO 100 OV 15MIN 50UL.M (Sequence Method)
Last changed    : 12/9/2015 8:34:52 AM by Simi120102015
=====
  
```



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 Area Percent Report
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```

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

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

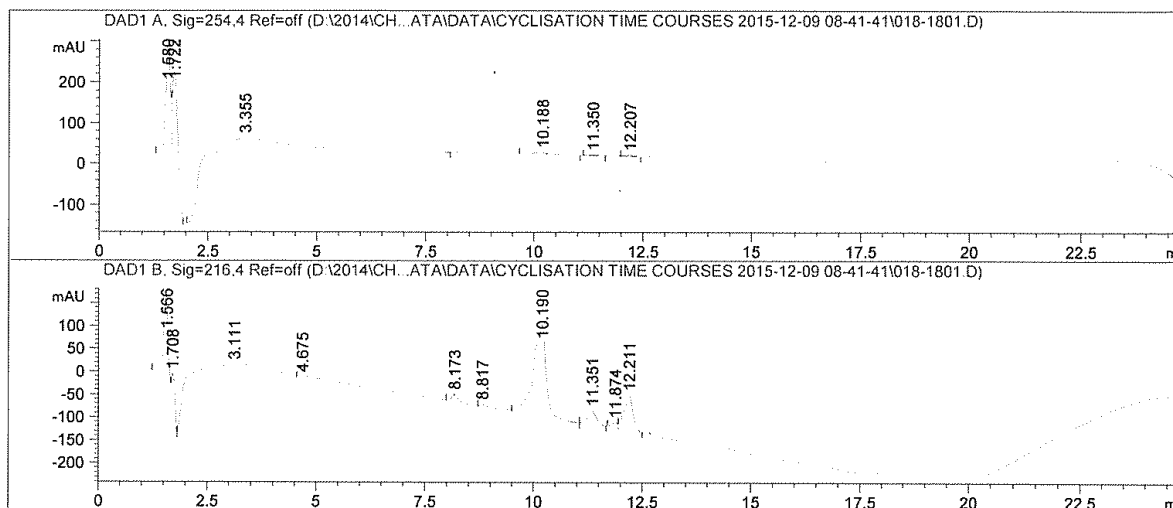
Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	1.581	BV	0.1910	4623.04297	347.97897	11.4510
2	1.726	VB	0.1327	2822.01587	326.90796	6.9899
3	3.351	BB	2.4078	3.27222e4	169.99074	81.0506
4	10.186	BB	0.2514	135.57300	7.07972	0.3358
5	11.351	BB	0.1643	21.82674	1.95492	0.0541
6	12.211	BB	0.1620	47.89104	4.43370	0.1186

Totals : 4.03726e4 858.34601

Data File D:\2014\CH...C DATA\DATA\CYCLISATION TIME COURSES 2015-12-09 08-41-41\018-1801.D
 Sample Name: Pro S epi AIP I DCC T=6

```

=====
Acq. Operator   : Simi120102015           Seq. Line :   18
Acq. Instrument : LC1260                 Location  : Vial 18
Injection Date  : 12/9/2015 4:11:15 PM   Inj       :    1
                                           Inj Volume: 50.000 µl
Acq. Method     : C:\CHEM32\1\DATA\DEMO\CYCLISATION TIME COURSES 2015-12-09 08-41-41\10 TO
                  100 OV 15MIN 50UL.M
Last changed    : 12/9/2015 8:34:52 AM by Simi120102015
Analysis Method : D:\2014\CHRIS HPLC DATA\DATA\CYCLISATION TIME COURSES 2015-12-09 08-41-41
                  \10 TO 100 OV 15MIN 50UL.M (Sequence Method)
Last changed    : 12/9/2015 8:34:52 AM by Simi120102015
=====
  
```



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 Area Percent Report
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```

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

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

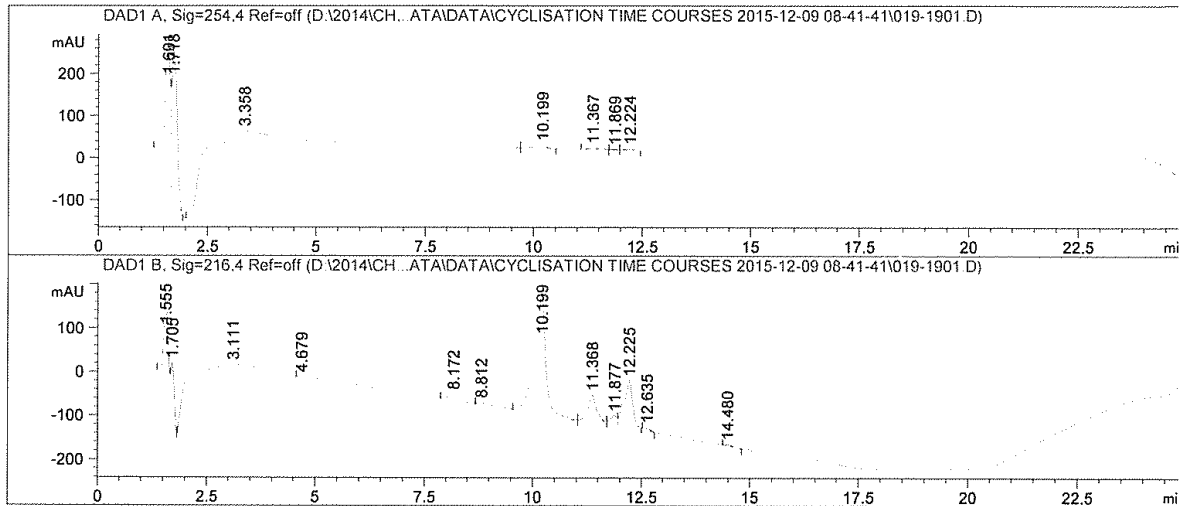
Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	1.580	BV	0.1184	2893.84497	329.67761	7.5922
2	1.722	VB	0.1303	2587.79492	307.17178	6.7892
3	3.355	BB	2.4080	3.24771e4	169.45660	85.2058
4	10.188	BB	0.2570	105.20487	5.35966	0.2760
5	11.350	BB	0.1753	24.47615	2.04994	0.0642
6	12.207	BB	0.1749	27.63758	2.35579	0.0725

Totals : 3.81161e4 816.07138

Data File D:\2014\CH...C DATA\DATA\CYCLISATION TIME COURSES 2015-12-09 08-41-41\019-1901.D
 Sample Name: Pro S epi AIP I DCC T=7

```

=====
Acq. Operator   : Simi120102015           Seq. Line : 19
Acq. Instrument : LC1260                  Location  : Vial 19
Injection Date  : 12/9/2015 4:37:37 PM    Inj       : 1
                                           Inj Volume: 50.000 µl
Acq. Method     : C:\CHEM32\1\DATA\DEMO\CYCLISATION TIME COURSES 2015-12-09 08-41-41\10 TO
                  100 OV 15MIN 50UL.M
Last changed    : 12/9/2015 8:34:52 AM by Simi120102015
Analysis Method : D:\2014\CHRIS HPLC DATA\DATA\CYCLISATION TIME COURSES 2015-12-09 08-41-41
                  \10 TO 100 OV 15MIN 50UL.M (Sequence Method)
Last changed    : 12/9/2015 8:34:52 AM by Simi120102015
=====
  
```



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 Area Percent Report
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```

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

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

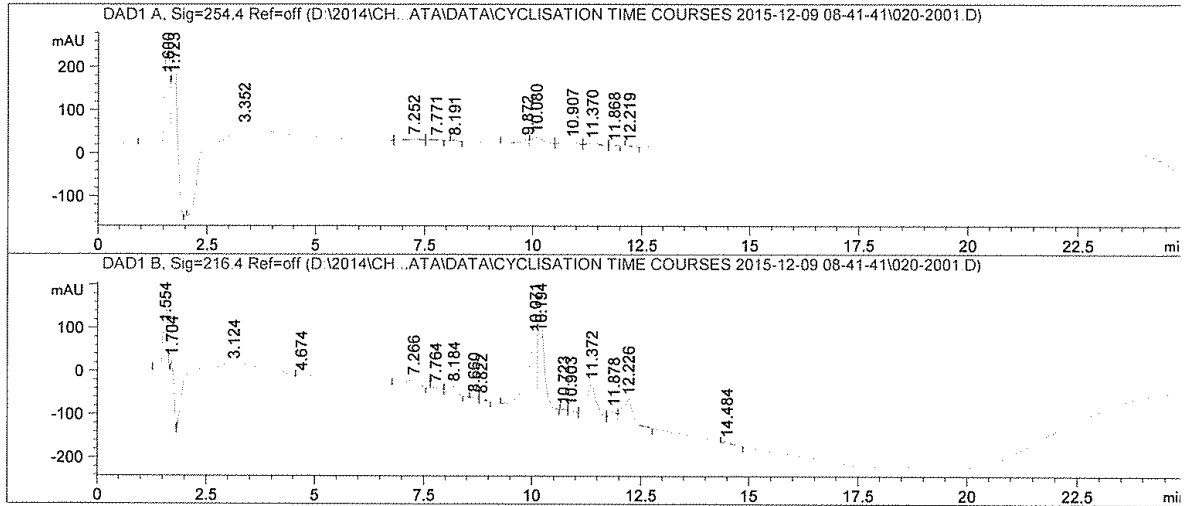
Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	1.601	BV	0.1236	3045.34766	330.10397	6.4429
2	1.718	VB	0.1098	2739.89038	340.63965	5.7967
3	3.358	BB	2.8858	4.12533e4	177.08905	87.2783
4	10.199	BB	0.2294	125.25597	7.25652	0.2650
5	11.367	BB	0.1847	49.42875	3.92963	0.1046
6	11.869	BV	0.1399	10.39240	1.16696	0.0220
7	12.224	VB	0.1741	42.75997	3.41457	0.0905

Totals : 4.72664e4 863.60035

Data File D:\2014\CH...C DATA\DATA\CYCLISATION TIME COURSES 2015-12-09 08-41-41\020-2001.D
 Sample Name: Pro S epi AIP I DCC T=8

```

=====
Acq. Operator   : Simi120102015           Seq. Line :   20
Acq. Instrument : LC1260                  Location  : Vial 20
Injection Date  : 12/9/2015 5:04:02 PM    Inj       :    1
                                           Inj Volume: 50.000 µl
Acq. Method     : C:\CHEM32\1\DATA\DEMO\CYCLISATION TIME COURSES 2015-12-09 08-41-41\10 TO
                                           100 OV 15MIN 50UL.M
Last changed    : 12/9/2015 8:34:52 AM by Simi120102015
Analysis Method : D:\2014\CHRIS HPLC DATA\DATA\CYCLISATION TIME COURSES 2015-12-09 08-41-41
                                           \10 TO 100 OV 15MIN 50UL.M (Sequence Method)
Last changed    : 12/9/2015 8:34:52 AM by Simi120102015
=====
  
```



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

```

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

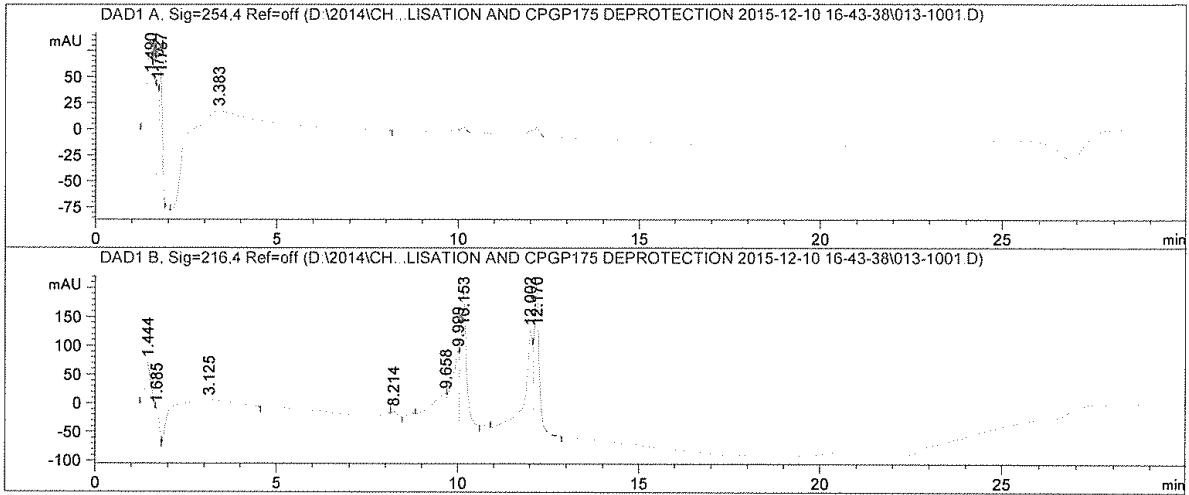
Signal 1: DAD1 A, Sig=254,4 Ref=off

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	1.600	BV	0.1977	4705.84521	348.08038	14.1124
2	1.723	VB	0.1287	2841.90308	342.74042	8.5226
3	3.352	BB	1.9856	2.50345e4	158.24918	75.0765
4	7.252	BV	0.2906	59.79783	2.67723	0.1793
5	7.771	VB	0.1862	25.25790	1.86263	0.0757
6	8.191	BB	0.1210	12.33597	1.61699	0.0370
7	9.872	BV	0.1921	122.03799	8.67838	0.3660
8	10.080	VV	0.2573	269.69159	14.61151	0.8088
9	10.907	VV	0.3375	161.59647	6.51323	0.4846
10	11.370	VV	0.2279	92.23831	5.72746	0.2766

Sample Name: Pro S epi AIP I DCC T=1

```

=====
Acq. Operator   : Simi120102015           Seq. Line :   10
Acq. Instrument : LC1260                 Location  : Vial 13
Injection Date  : 12/10/2015 9:32:25 PM   Inj       :    1
                                           Inj Volume: 100.000 µl
Acq. Method     : C:\CHEM32\1\DATA\DEMO\CYCLISATION AND CPGP175 DEPROTECTION 2015-12-10 16-43-38\10 TO 100 OV 15MIN 100UL.M
Last changed    : 12/10/2015 4:12:03 PM by Simi120102015
Analysis Method : D:\2014\CHRIS HPLC DATA\DATA\CYCLISATION AND CPGP175 DEPROTECTION 2015-12-10 16-43-38\10 TO 100 OV 15MIN 100UL.M (Sequence Method)
Last changed    : 3/15/2016 8:58:04 AM by SYSTEM
                 (modified after loading) (Current integration events modified)
=====
    
```



=====
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

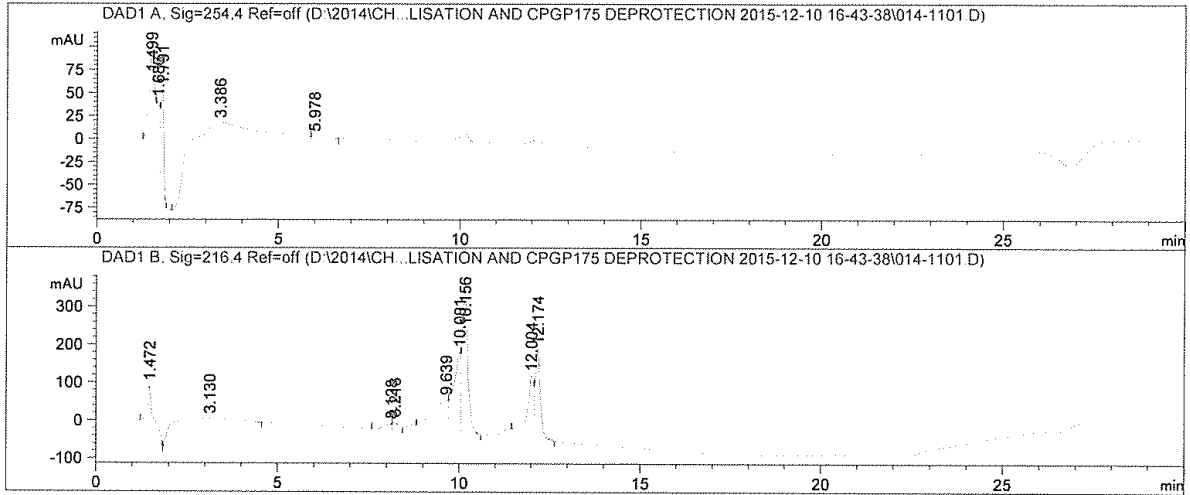
Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	1.490	BV	0.2120	1773.21631	111.20480	10.0263
2	1.702	VV	0.0544	349.67706	91.83134	1.9772
3	1.787	VB	0.0826	603.62054	112.52320	3.4130
4	3.383	BB	2.3448	1.49592e4	79.08295	84.5835

Totals : 1.76857e4 394.64230

Data File D:\2014\CH...CYCLISATION AND CPGP175 DEPROTECTION 2015-12-10 16-43-38\014-1101.D
 Sample Name: Pro S epi AIP I DCC T=2

```

=====
Acq. Operator   : Simi120102015           Seq. Line :   11
Acq. Instrument : LC1260                 Location  : Vial 14
Injection Date  : 12/10/2015 10:04:14 PM Inj       :    1
                                           Inj Volume: 100.000 µl
Acq. Method     : C:\CHEM32\1\DATA\DEMO\CYCLISATION AND CPGP175 DEPROTECTION 2015-12-10 16-43-38\10 TO 100 OV 15MIN 100UL.M
Last changed    : 12/10/2015 4:12:03 PM by Simi120102015
Analysis Method : D:\2014\CHRIS HPLC DATA\DATA\CYCLISATION AND CPGP175 DEPROTECTION 2015-12-10 16-43-38\10 TO 100 OV 15MIN 100UL.M (Sequence Method)
Last changed    : 3/15/2016 8:58:30 AM by SYSTEM
                 (modified after loading) (Current integration events modified)
=====
  
```



=====
 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

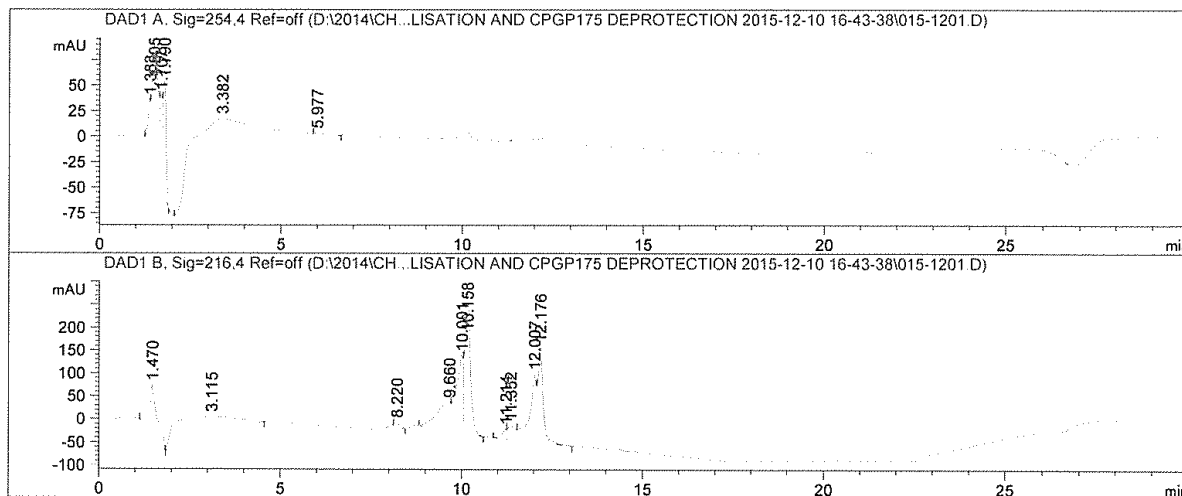
Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	1.499	BV	0.1532	1512.02771	132.39766	11.0680
2	1.680	VV	0.0858	499.43127	85.90598	3.6558
3	1.791	VB	0.0851	619.86835	111.04037	4.5374
4	3.386	BV	1.8387	1.06876e4	72.97361	78.2331
5	5.978	VB	0.3121	342.30881	13.86132	2.5057

Totals : 1.36613e4 416.17895

Data File D:\2014\CH...CYCLISATION AND CPGP175 DEPROTECTION 2015-12-10 16-43-38\015-1201.D
 Sample Name: Pro S epi AIP I DCC T=3

```

=====
Acq. Operator   : Simi120102015           Seq. Line : 12
Acq. Instrument : LC1260                 Location  : Vial 15
Injection Date  : 12/10/2015 10:36:04 PM Inj       : 1
                                           Inj Volume: 100.000 µl
Acq. Method     : C:\CHEM32\1\DATA\DEMO\CYCLISATION AND CPGP175 DEPROTECTION 2015-12-10 16-43-38\10 TO 100 OV 15MIN 100UL.M
Last changed    : 12/10/2015 4:12:03 PM by Simi120102015
Analysis Method : D:\2014\CHRIS HPLC DATA\DATA\CYCLISATION AND CPGP175 DEPROTECTION 2015-12-10 16-43-38\10 TO 100 OV 15MIN 100UL.M (Sequence Method)
Last changed    : 3/15/2016 8:58:48 AM by SYSTEM
                 (modified after loading) (Current integration events modified)
=====
  
```



=====
 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

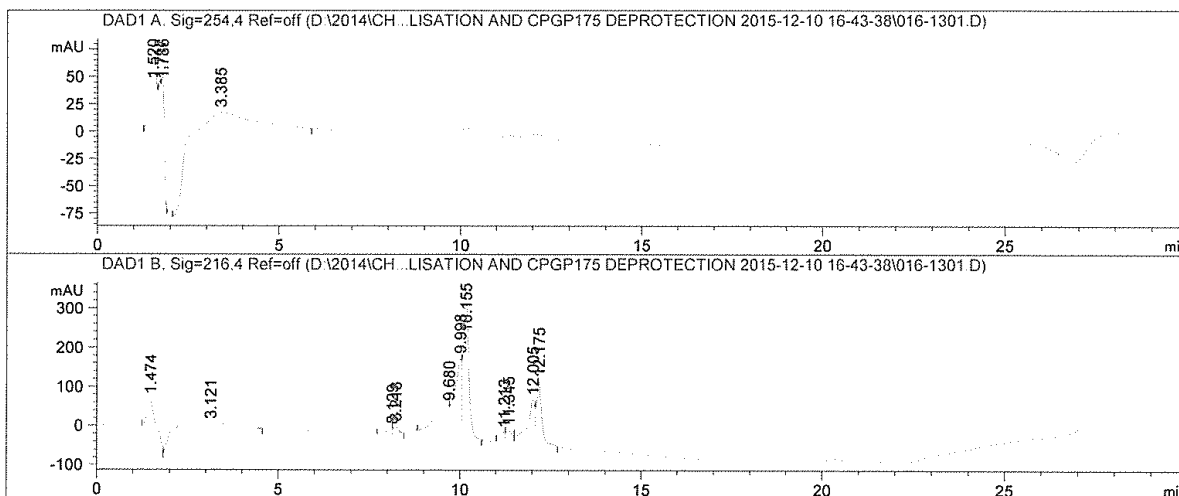
Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	1.383	BV	0.0709	244.92012	50.25099	1.7865
2	1.505	VV	0.1665	1396.61377	115.94518	10.1869
3	1.707	VV	0.0675	426.61719	89.64386	3.1118
4	1.790	VB	0.0810	602.15082	111.55718	4.3921
5	3.382	BV	1.8693	1.07003e4	72.69448	78.0483
6	5.977	VB	0.3114	339.23999	13.76942	2.4744

Totals : 1.37099e4 453.86111

Data File D:\2014\CH...CYCLISATION AND CPGP175 DEPROTECTION 2015-12-10 16-43-38\016-1301.D
 Sample Name: Pro S epi AIP I DCC T=4

```

=====
Acq. Operator   : Simi120102015           Seq. Line :   13
Acq. Instrument : LC1260                 Location  : Vial 16
Injection Date  : 12/10/2015 11:07:53 PM Inj       :    1
                                           Inj Volume: 100.000 µl
Acq. Method     : C:\CHEM32\1\DATA\DEMO\CYCLISATION AND CPGP175 DEPROTECTION 2015-12-10 16-43-38\10 TO 100 OV 15MIN 100UL.M
Last changed    : 12/10/2015 4:12:03 PM by Simi120102015
Analysis Method : D:\2014\CHRIS HPLC DATA\DATA\CYCLISATION AND CPGP175 DEPROTECTION 2015-12-10 16-43-38\10 TO 100 OV 15MIN 100UL.M (Sequence Method)
Last changed    : 3/15/2016 8:59:10 AM by SYSTEM
                 (modified after loading) (Current integration events modified)
=====
  
```



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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 A, Sig=254,4 Ref=off

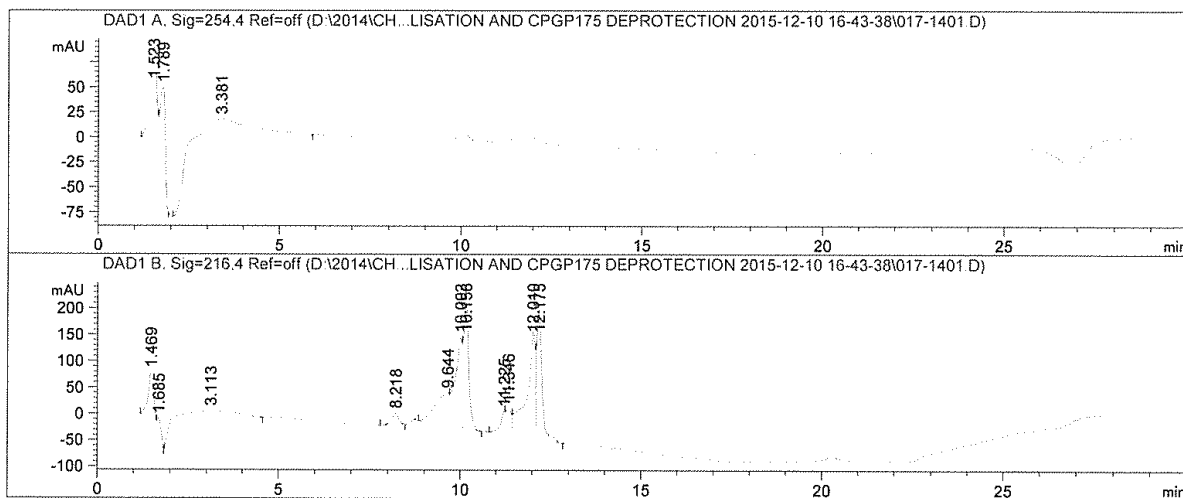
Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	1.520	BV	0.2333	1617.18909	105.21475	13.8630
2	1.717	VV	0.0656	458.88681	96.35241	3.9337
3	1.786	VB	0.0777	563.38470	110.04817	4.8295
4	3.385	BB	1.6803	9026.07324	67.83665	77.3739

Totals : 1.16655e4 379.45199

Data File D:\2014\CH...CYCLISATION AND CPGP175 DEPROTECTION 2015-12-10 16-43-38\017-1401.D
 Sample Name: Pro S epi AIP I DCC T=5

```

=====
Acq. Operator   : Simi120102015           Seq. Line : 14
Acq. Instrument : LC1260                  Location  : Vial 17
Injection Date  : 12/10/2015 11:39:43 PM Inj       : 1
                                           Inj Volume: 100.000 µl
Acq. Method     : C:\CHEM32\1\DATA\DEMO\CYCLISATION AND CPGP175 DEPROTECTION 2015-12-10 16-43-38\10 TO 100 OV 15MIN 100UL.M
Last changed    : 12/10/2015 4:12:03 PM by Simi120102015
Analysis Method : D:\2014\CHRIS HPLC DATA\DATA\CYCLISATION AND CPGP175 DEPROTECTION 2015-12-10 16-43-38\10 TO 100 OV 15MIN 100UL.M (Sequence Method)
Last changed    : 3/15/2016 8:59:30 AM by SYSTEM
                 (modified after loading) (Current integration events modified)
=====
  
```



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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 A, Sig=254,4 Ref=off

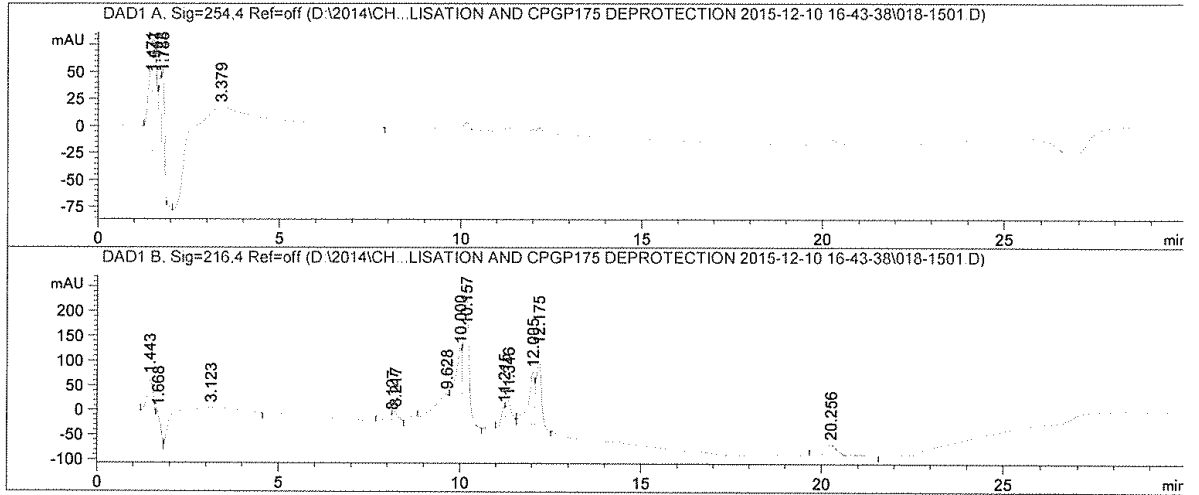
Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	1.523	BV	0.1989	1762.90051	123.22841	14.6140
2	1.789	VB	0.1296	1054.14795	110.16790	8.7386
3	3.381	BB	1.6919	9246.08301	69.15031	76.6475

Totals : 1.20631e4 302.54662

Data File D:\2014\CH...CYCLISATION AND CPGP175 DEPROTECTION 2015-12-10 16-43-38\018-1501.D
 Sample Name: Pro S epi AIP I DCC T=6

```

=====
Acq. Operator   : Simi120102015           Seq. Line :   15
Acq. Instrument : LC1260                 Location  : Vial 18
Injection Date  : 12/11/2015 12:11:32 AM Inj       :    1
                                           Inj Volume: 100.000 µl
Acq. Method     : C:\CHEM32\1\DATA\DEMO\CYCLISATION AND CPGP175 DEPROTECTION 2015-12-10 16-43-38\10 TO 100 OV 15MIN 100UL.M
Last changed    : 12/10/2015 4:12:03 PM by Simi120102015
Analysis Method : D:\2014\CHRIS HPLC DATA\DATA\CYCLISATION AND CPGP175 DEPROTECTION 2015-12-10 16-43-38\10 TO 100 OV 15MIN 100UL.M (Sequence Method)
Last changed    : 3/15/2016 8:59:49 AM by SYSTEM
                 (modified after loading) (Current integration events modified)
=====
  
```



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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 A, Sig=254,4 Ref=off

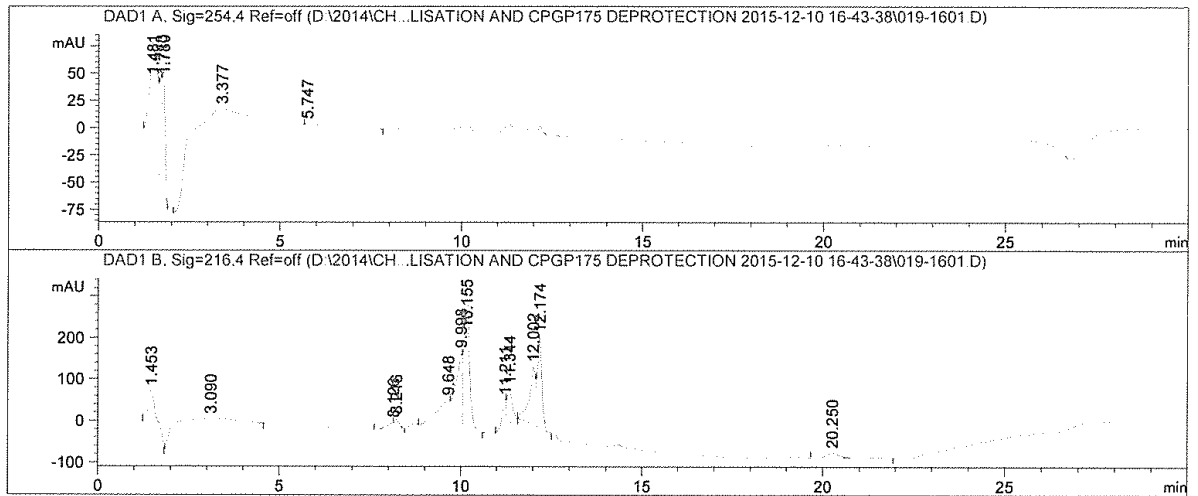
Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	1.471	BV	0.0993	681.69727	97.83884	4.0274
2	1.547	VV	0.1129	899.30505	110.54456	5.3130
3	1.722	VV	0.0726	485.67072	96.73171	2.8693
4	1.785	VB	0.0773	558.99750	109.97053	3.3025
5	3.379	BB	2.2864	1.43009e4	78.24427	84.4879

Totals : 1.69266e4 493.32991

Data File D:\2014\CH...CYCLISATION AND CPGP175 DEPROTECTION 2015-12-10 16-43-38\019-1601.D
 Sample Name: Pro S epi AIP I DCC T=7

```

=====
Acq. Operator   : Simi120102015           Seq. Line : 16
Acq. Instrument : LC1260                 Location  : Vial 19
Injection Date  : 12/11/2015 12:43:22 AM Inj       : 1
                                           Inj Volume: 100.000 µl
Acq. Method    : C:\CHEM32\1\DATA\DEMO\CYCLISATION AND CPGP175 DEPROTECTION 2015-12-10 16-43-38\10 TO 100 OV 15MIN 100UL.M
Last changed   : 12/10/2015 4:12:03 PM by Simi120102015
Analysis Method: D:\2014\CHRIS HPLC DATA\DATA\CYCLISATION AND CPGP175 DEPROTECTION 2015-12-10 16-43-38\10 TO 100 OV 15MIN 100UL.M (Sequence Method)
Last changed   : 3/15/2016 9:00:07 AM by SYSTEM
                (modified after loading) (Current integration events modified)
=====
  
```



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

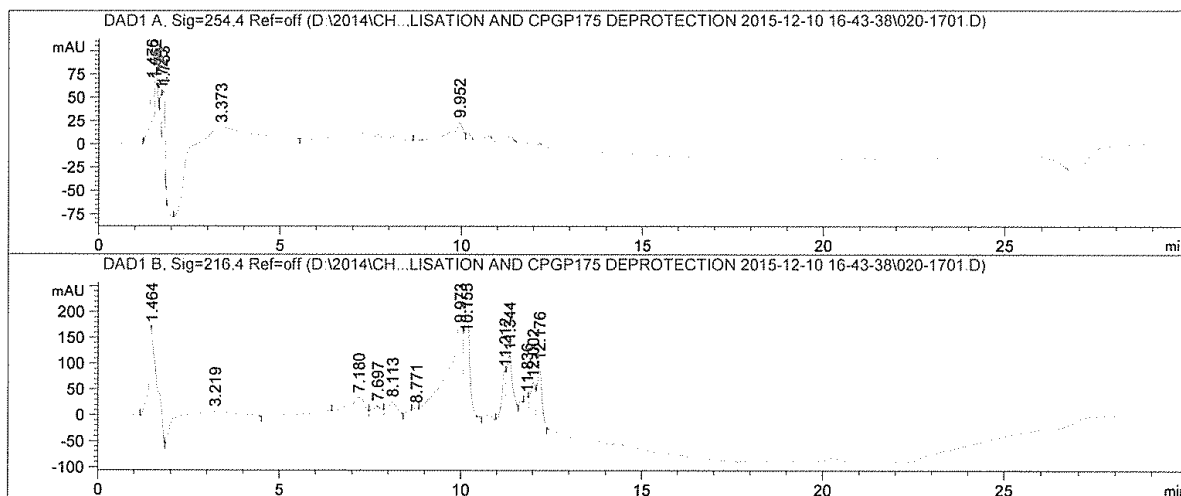
Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	1.481	BV	0.2182	1690.13171	103.69606	10.0486
2	1.713	VV	0.0649	446.71085	98.53292	2.6559
3	1.780	VB	0.0781	570.95282	110.74967	3.3946
4	3.377	BV	1.9284	1.19976e4	78.00579	71.3311
5	5.747	VB	0.7814	2114.18994	32.47945	12.5698

Totals : 1.68196e4 423.46389

Data File D:\2014\CH...CYCLISATION AND CPGP175 DEPROTECTION 2015-12-10 16-43-38\020-1701.D
 Sample Name: Pro S epi AIP I DCC T=8

```

=====
Acq. Operator   : Simi120102015           Seq. Line : 17
Acq. Instrument : LC1260                 Location  : Vial 20
Injection Date  : 12/11/2015 1:15:13 AM   Inj       : 1
                                           Inj Volume: 100.000 µl
Acq. Method     : C:\CHEM32\1\DATA\DEMO\CYCLISATION AND CPGP175 DEPROTECTION 2015-12-10 16-43-38\10 TO 100 OV 15MIN 100UL.M
Last changed    : 12/10/2015 4:12:03 PM by Simi120102015
Analysis Method : D:\2014\CHRIS HPLC DATA\DATA\CYCLISATION AND CPGP175 DEPROTECTION 2015-12-10 16-43-38\10 TO 100 OV 15MIN 100UL.M (Sequence Method)
Last changed    : 3/15/2016 9:00:24 AM by SYSTEM
                 (modified after loading) (Current integration events modified)
=====
  
```



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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 A, Sig=254,4 Ref=off

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	1.476	BV	0.0982	542.02014	78.81866	5.5760
2	1.562	VB	0.0616	213.40388	52.32769	2.1954
3	1.725	BV	0.0496	125.30008	38.83519	1.2890
4	1.783	VB	0.0742	346.05554	71.82365	3.5600
5	3.373	BB	1.5965	8039.54834	64.57506	82.7063
6	9.952	BV	0.3204	454.26746	18.37459	4.6732

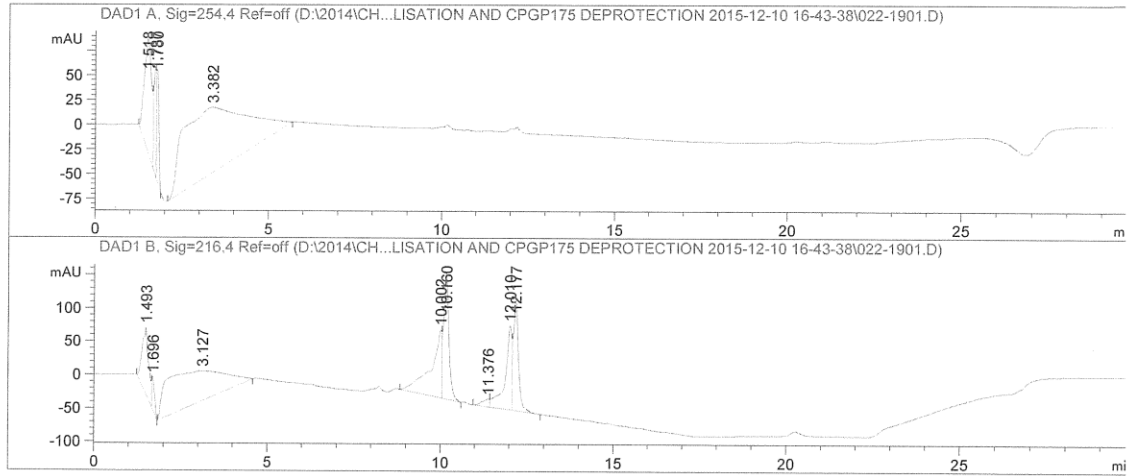
Totals : 9720.59544 324.75485

Data File D:\2014\CH...CYCLISATION AND CPGP175 DEPROTECTION 2015-12-10 16-43-38\022-1901.D
 Sample Name: Pro S epi AIP I PS CD T=1

```

=====
Acq. Operator   : Simi120102015           Seq. Line : 19
Acq. Instrument : LC1260                   Location  : Vial 22
Injection Date  : 12/11/2015 2:18:53 AM    Inj       : 1
                                           Inj Volume: 100.000 µl

Acq. Method    : C:\CHEM32\1\DATA\DEMO\CYCLISATION AND CPGP175 DEPROTECTION 2015-12-10 16-43-38\10 TO 100 OV 15MIN 100UL.M
Last changed   : 12/10/2015 4:12:03 PM by Simi120102015
Analysis Method : D:\2014\CHRIS HPLC DATA\DATA\CYCLISATION AND CPGP175 DEPROTECTION 2015-12-10 16-43-38\10 TO 100 OV 15MIN 100UL.M (Sequence Method)
Last changed   : 3/15/2016 9:01:02 AM by SYSTEM
                (modified after loading) (Current integration events modified)
=====
  
```



=====
 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	1.518	BV	0.2002	1660.21387	115.15921	14.8509
2	1.737	VV	0.0725	563.58258	108.64600	5.0414
3	1.780	VB	0.0681	481.81845	112.27672	4.3100
4	3.382	BB	1.6321	8473.57813	66.16603	75.7978

Totals : 1.11792e4 402.24796

Data File D:\2014\CH...CYCLISATION AND CPGP175 DEPROTECTION 2015-12-10 16-43-38\023-2001.D
 Sample Name: Pro S epi AIP I PS CD T=2

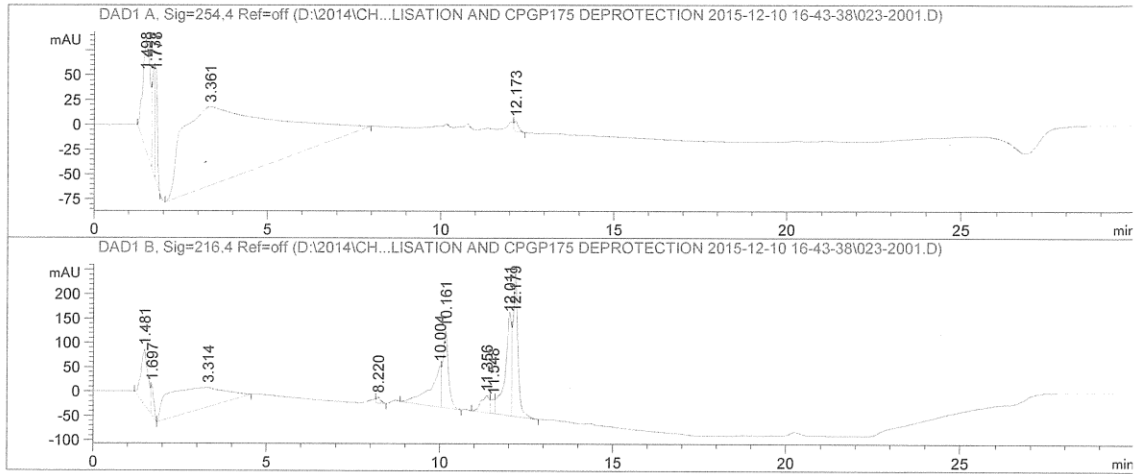
```

=====
Acq. Operator   : Simi120102015           Seq. Line : 20
Acq. Instrument : LC1260                  Location  : Vial 23
Injection Date  : 12/11/2015 2:50:43 AM   Inj       : 1
                                           Inj Volume: 100.000 µl

Acq. Method    : C:\CHEM32\1\DATA\DEMO\CYCLISATION AND CPGP175 DEPROTECTION 2015-12-10 16-43-38\10 TO 100 OV 15MIN 100UL.M

Last changed   : 12/10/2015 4:12:03 PM by Simi120102015
Analysis Method : D:\2014\CHRIS HPLC DATA\DATA\CYCLISATION AND CPGP175 DEPROTECTION 2015-12-10 16-43-38\10 TO 100 OV 15MIN 100UL.M (Sequence Method)

Last changed   : 3/15/2016 9:01:22 AM by SYSTEM
                (modified after loading) (Current integration events modified)
=====
  
```



=====
 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	1.498	BV	0.1840	1647.77673	111.78018	9.5032
2	1.737	VV	0.0730	566.62054	108.45362	3.2679
3	1.778	VB	0.0722	527.20453	113.49354	3.0405
4	3.361	BB	2.2568	1.45051e4	79.12041	83.6548
5	12.173	VB	0.1251	92.52731	10.68017	0.5336

Totals : 1.73392e4 423.52793

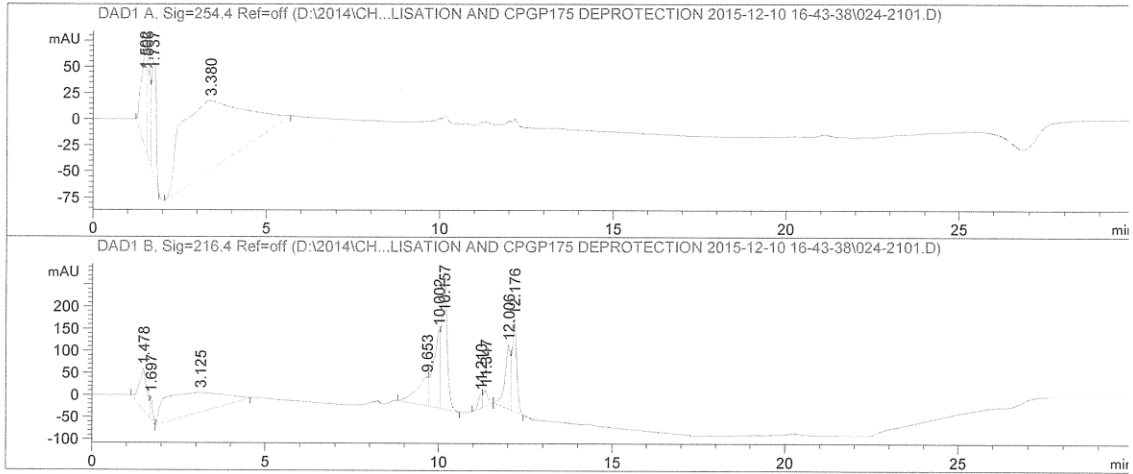
```

=====
Acq. Operator   : Simi120102015           Seq. Line : 21
Acq. Instrument : LC1260                 Location  : Vial 24
Injection Date  : 12/11/2015 3:22:32 AM   Inj       : 1
                                           Inj Volume: 100.000 µl

Acq. Method     : C:\CHEM32\1\DATA\DEMO\CYCLISATION AND CPGP175 DEPROTECTION 2015-12-10 16-43-38\10 TO 100 OV 15MIN 100UL.M

Last changed    : 12/10/2015 4:12:03 PM by Simi120102015
Analysis Method : D:\2014\CHRIS HPLC DATA\DATA\CYCLISATION AND CPGP175 DEPROTECTION 2015-12-10 16-43-38\10 TO 100 OV 15MIN 100UL.M (Sequence Method)

Last changed    : 3/15/2016 9:01:42 AM by SYSTEM
                 (modified after loading) (Current integration events modified)
=====
  
```



=====
 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	1.502	BV	0.1311	1050.07764	104.61230	9.3340
2	1.566	VV	0.0897	635.97784	100.64491	5.6531
3	1.737	VB	0.1224	1004.64984	108.08659	8.9302
4	3.380	BB	1.6486	8559.33203	66.45619	76.0827

Totals : 1.12500e4 379.79998

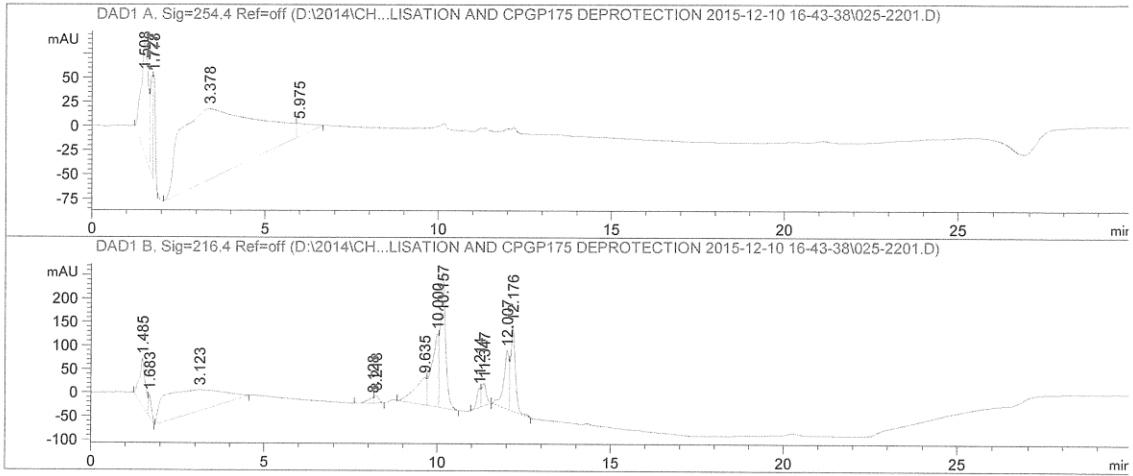
```

=====
Acq. Operator   : Simi120102015           Seq. Line : 22
Acq. Instrument : LC1260                   Location  : Vial 25
Injection Date  : 12/11/2015 3:54:22 AM    Inj       : 1
                                           Inj Volume: 100.000 µl

Acq. Method     : C:\CHEM32\1\DATA\DEMO\CYCLISATION AND CPGP175 DEPROTECTION 2015-12-10 16-43-38\10 TO 100 OV 15MIN 100UL.M

Last changed    : 12/10/2015 4:12:03 PM by Simi120102015
Analysis Method : D:\2014\CHRIS HPLC DATA\DATA\CYCLISATION AND CPGP175 DEPROTECTION 2015-12-10 16-43-38\10 TO 100 OV 15MIN 100UL.M (Sequence Method)

Last changed    : 3/15/2016 9:02:00 AM by SYSTEM
                 (modified after loading) (Current integration events modified)
=====
  
```



=====
 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	1.508	BV	0.1835	1661.88477	118.54943	12.0587
2	1.727	VV	0.0705	520.62689	103.85775	3.7777
3	1.778	VB	0.0699	504.38531	109.18156	3.6598
4	3.378	BV	1.8522	1.07563e4	73.11949	78.0479
5	5.975	VB	0.3093	338.46811	13.74439	2.4559
Totals :				1.37816e4	418.45262	

Data File D:\2014\CH...CYCLISATION AND CPGP175 DEPROTECTION 2015-12-10 16-43-38\026-2301.D
 Sample Name: Pro S epi AIP I PS CD T=5

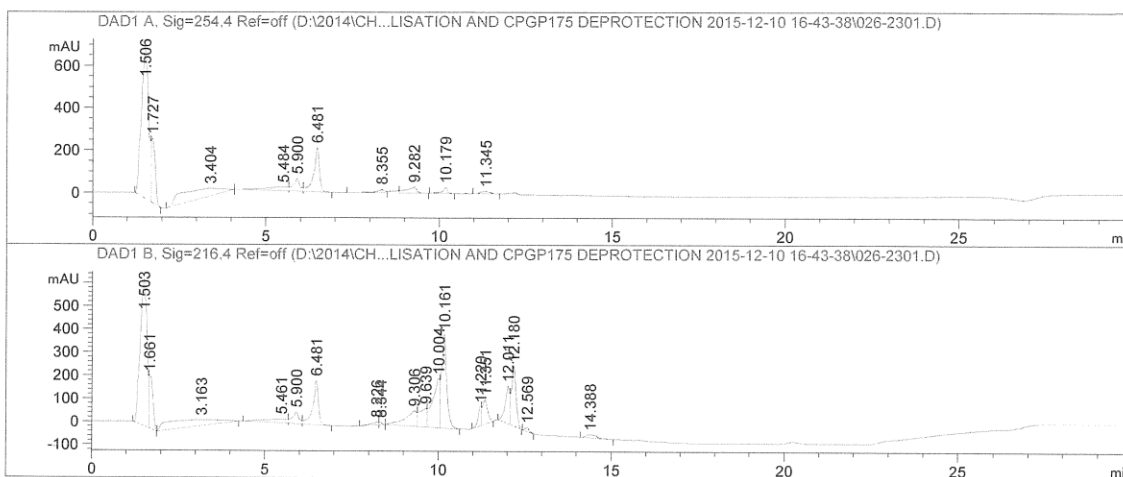
```

=====
Acq. Operator   : Simi120102015           Seq. Line :   23
Acq. Instrument : LC1260                 Location  : Vial 26
Injection Date  : 12/11/2015 4:26:12 AM   Inj       :    1
                                           Inj Volume: 100.000 µl

Acq. Method    : C:\CHEM32\1\DATA\DEMO\CYCLISATION AND CPGP175 DEPROTECTION 2015-12-10 16-43-38\10 TO 100 OV 15MIN 100UL.M

Last changed   : 12/10/2015 4:12:03 PM by Simi120102015
Analysis Method : D:\2014\CHRIS HPLC DATA\DATA\CYCLISATION AND CPGP175 DEPROTECTION 2015-12-10 16-43-38\10 TO 100 OV 15MIN 100UL.M (Sequence Method)

Last changed   : 3/15/2016 9:02:17 AM by SYSTEM
                (modified after loading) (Current integration events modified)
=====
  
```



=====
 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	1.506	BV	0.1808	1.02451e4	716.78851	47.5757
2	1.727	VB	0.1219	2299.40771	305.07468	10.6779
3	3.404	BB	1.3687	3721.28955	35.33350	17.2807
4	5.484	BV	0.5729	796.08685	17.83087	3.6968
5	5.900	VV	0.1798	776.93054	58.92851	3.6079
6	6.481	VB	0.1603	2397.76270	208.35289	11.1346
7	8.355	BV	0.2192	260.92456	15.43838	1.2117
8	9.282	VB	0.2590	549.01959	27.49500	2.5495
9	10.179	BB	0.1373	273.00604	27.62776	1.2678
10	11.345	BB	0.2537	214.80388	11.10468	0.9975

Data File D:\2014\CH...CYCLISATION AND CPGP175 DEPROTECTION 2015-12-10 16-43-38\027-2401.D
 Sample Name: Pro S epi AIP I PS CD T=6

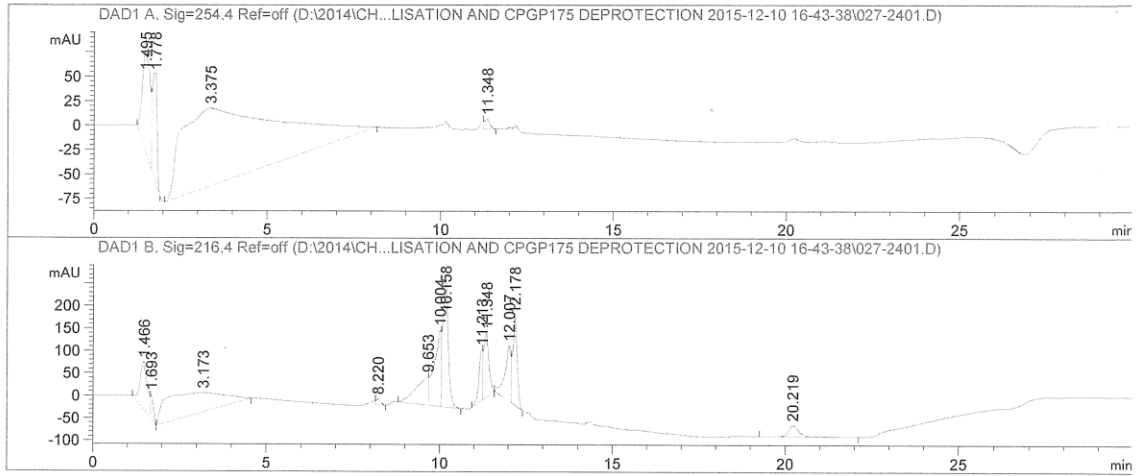
```

=====
Acq. Operator   : Simi120102015           Seq. Line : 24
Acq. Instrument : LC1260                  Location  : Vial 27
Injection Date  : 12/11/2015 4:58:02 AM   Inj       : 1
                                           Inj Volume: 100.000 µl

Acq. Method    : C:\CHEM32\1\DATA\DEMO\CYCLISATION AND CPGP175 DEPROTECTION 2015-12-10 16-43-38\10 TO 100 OV 15MIN 100UL.M

Last changed   : 12/10/2015 4:12:03 PM by Simi120102015
Analysis Method : D:\2014\CHRIS HPLC DATA\DATA\CYCLISATION AND CPGP175 DEPROTECTION 2015-12-10 16-43-38\10 TO 100 OV 15MIN 100UL.M (Sequence Method)

Last changed   : 3/15/2016 9:02:33 AM by SYSTEM
                (modified after loading) (Current integration events modified)
=====
  
```



=====
 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	1.495	BV	0.1857	1662.95837	114.31179	9.3171
2	1.778	VB	0.1266	1034.69458	111.17526	5.7971
3	3.375	BB	2.3414	1.50364e4	79.54213	84.2445
4	11.348	VB	0.1491	114.46119	10.84628	0.6413
Totals :				1.78485e4	315.87546	

Data File D:\2014\CH...CYCLISATION AND CPGP175 DEPROTECTION 2015-12-10 16-43-38\028-2501.D
 Sample Name: Pro S epi AIP I PS CD T=7

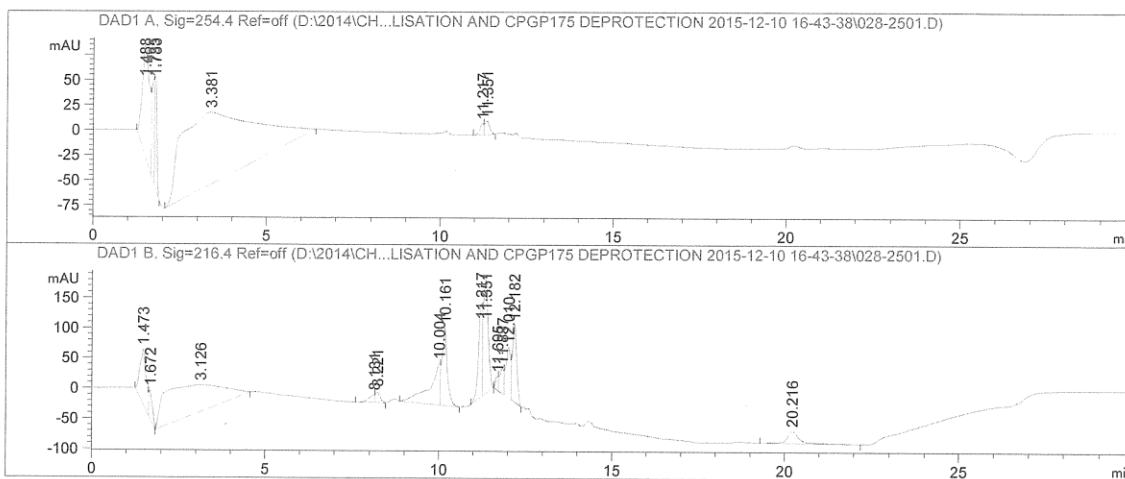
```

=====
Acq. Operator   : Simi120102015           Seq. Line : 25
Acq. Instrument : LC1260                   Location  : Vial 28
Injection Date  : 12/11/2015 5:29:51 AM   Inj       : 1
                                           Inj Volume: 100.000 µl

Acq. Method     : C:\CHEM32\1\DATA\DEMO\CYCLISATION AND CPGP175 DEPROTECTION 2015-12-10 16-43-38\10 TO 100 OV 15MIN 100UL.M

Last changed    : 12/10/2015 4:12:03 PM by Simi120102015
Analysis Method : D:\2014\CHRIS HPLC DATA\DATA\CYCLISATION AND CPGP175 DEPROTECTION 2015-12-10 16-43-38\10 TO 100 OV 15MIN 100UL.M (Sequence Method)

Last changed    : 3/15/2016 9:02:52 AM by SYSTEM
                 (modified after loading) (Current integration events modified)
=====
  
```



=====
 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	1.488	BV	0.2075	1636.97119	108.82732	12.2968
2	1.735	VV	0.0668	479.67804	102.20838	3.6033
3	1.783	VB	0.0751	540.25592	110.29816	4.0584
4	3.381	BB	1.8424	1.04387e4	71.62056	78.4150
5	11.217	BV	0.1113	83.07583	11.10474	0.6241
6	11.351	VB	0.1407	133.44598	13.57142	1.0024

Totals : 1.33122e4 417.63059

Data File D:\2014\CH...CYCLISATION AND CPGP175 DEPROTECTION 2015-12-10 16-43-38\029-2601.D
 Sample Name: Pro S epi AIP I PS CD T=8

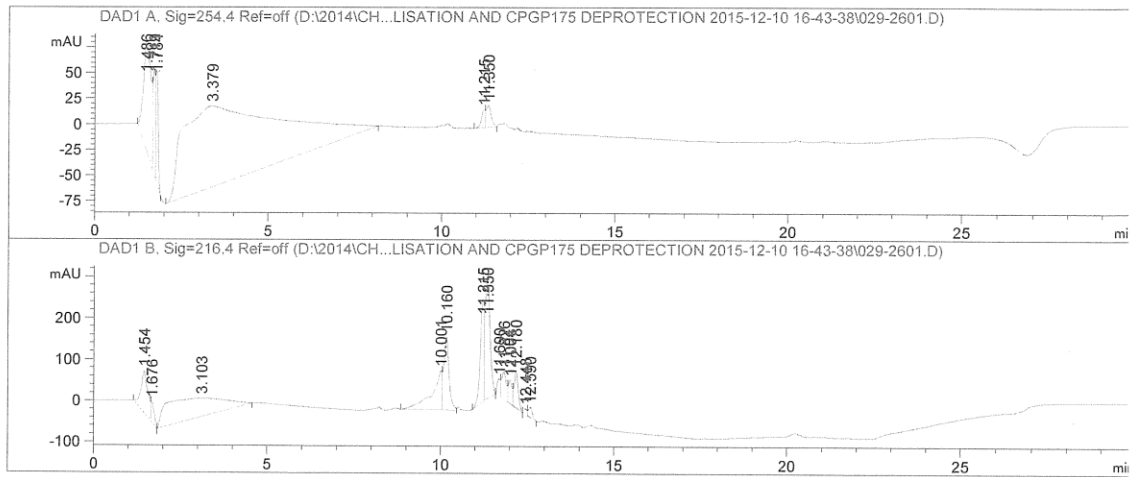
```

=====
Acq. Operator   : Simi120102015           Seq. Line : 26
Acq. Instrument : LC1260                 Location  : Vial 29
Injection Date  : 12/11/2015 6:01:45 AM   Inj       : 1
                                           Inj Volume: 100.000 µl

Acq. Method     : C:\CHEM32\1\DATA\DEMO\CYCLISATION AND CPGP175 DEPROTECTION 2015-12-10 16-43-38\10 TO 100 OV 15MIN 100UL.M

Last changed    : 12/10/2015 4:12:03 PM by Simi120102015
Analysis Method : D:\2014\CHRIS HPLC DATA\DATA\CYCLISATION AND CPGP175 DEPROTECTION 2015-12-10 16-43-38\10 TO 100 OV 15MIN 100UL.M (Sequence Method)

Last changed    : 3/15/2016 9:03:09 AM by SYSTEM
                 (modified after loading) (Current integration events modified)
=====
  
```



=====
 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	1.486	BV	0.2108	1617.18762	106.70644	8.9874
2	1.719	VV	0.0746	552.19513	102.85656	3.0688
3	1.784	VB	0.0738	525.49359	109.88778	2.9204
4	3.379	BB	2.3545	1.49545e4	78.99718	83.1089
5	11.215	BV	0.1124	133.09993	17.57053	0.7397
6	11.350	VB	0.1385	211.38432	21.54458	1.1748

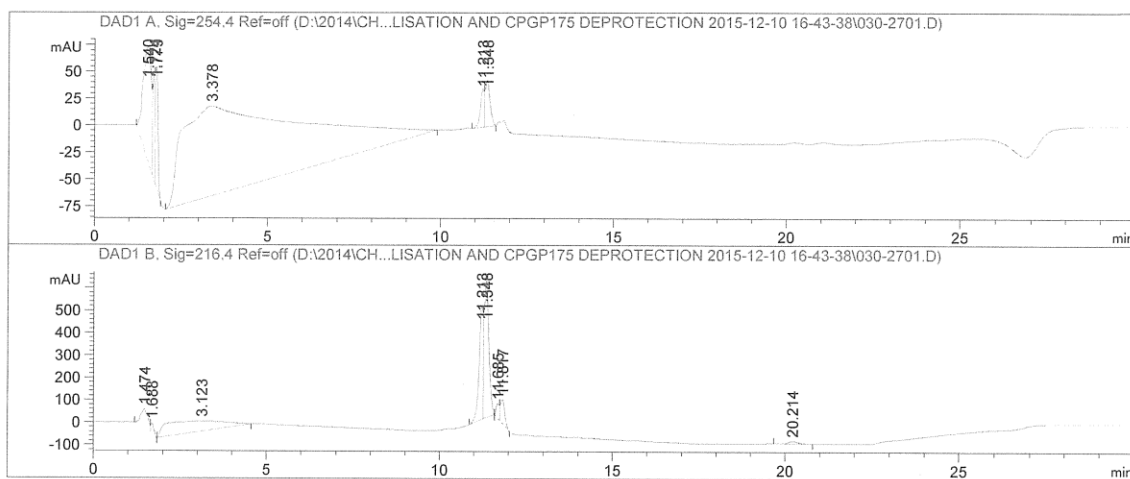
Totals : 1.79939e4 437.56308

Data File D:\2014\CH...CYCLISATION AND CPGP175 DEPROTECTION 2015-12-10 16-43-38\030-2701.D
 Sample Name: Pro S epi AIP I PS CD 2 days

```

=====
Acq. Operator   : Simi120102015           Seq. Line : 27
Acq. Instrument : LC1260                   Location  : Vial 30
Injection Date  : 12/11/2015 6:33:35 AM   Inj       : 1
                                           Inj Volume: 100.000 µl

Acq. Method     : C:\CHEM32\1\DATA\DEMO\CYCLISATION AND CPGP175 DEPROTECTION 2015-12-10 16-43-38\10 TO 100 OV 15MIN 100UL.M
Last changed    : 12/10/2015 4:12:03 PM by Simi120102015
Analysis Method : D:\2014\CHRIS HPLC DATA\DATA\CYCLISATION AND CPGP175 DEPROTECTION 2015-12-10 16-43-38\10 TO 100 OV 15MIN 100UL.M (Sequence Method)
Last changed    : 3/15/2016 9:03:26 AM by SYSTEM
                 (modified after loading) (Current integration events modified)
=====
  
```



=====
 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	1.540	BV	0.2209	1739.51306	106.29937	7.6243
2	1.724	VV	0.0623	440.05896	102.06106	1.9288
3	1.779	VB	0.0763	559.52161	111.87844	2.4524
4	3.378	BB	2.8608	1.93695e4	83.17658	84.8968
5	11.213	BV	0.1146	276.97739	35.68401	1.2140
6	11.348	VB	0.1390	429.76346	43.58271	1.8837

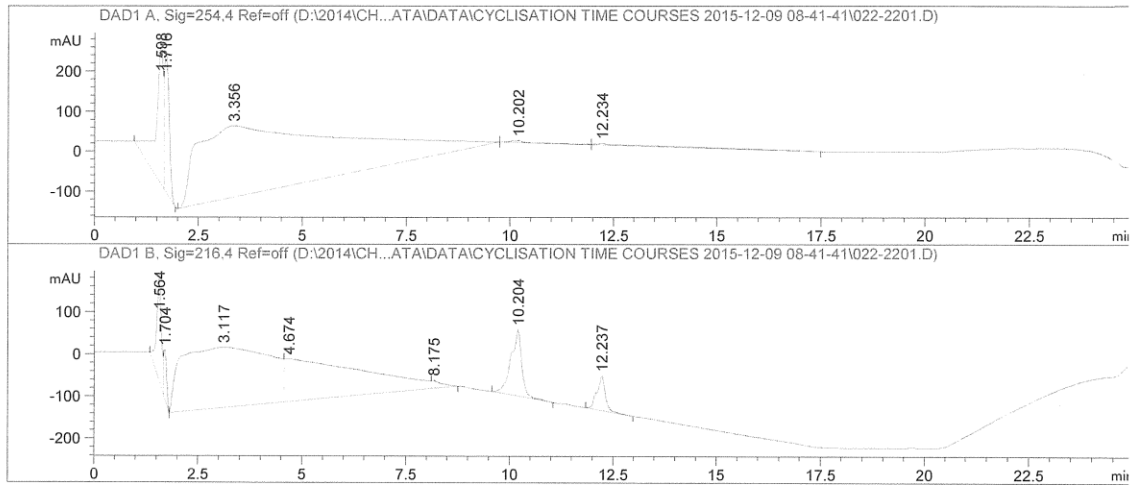
Totals : 2.28153e4 482.68216

Data File D:\2014\CH...C DATA\DATA\CYCLISATION TIME COURSES 2015-12-09 08-41-41\022-2201.D
 Sample Name: Pro S epi AIP I PS CD T=1

```

=====
Acq. Operator   : Simi120102015           Seq. Line : 22
Acq. Instrument : LC1260                 Location  : Vial 22
Injection Date  : 12/9/2015 5:56:48 PM   Inj       : 1
                                           Inj Volume: 50.000 µl

Acq. Method     : C:\CHEM32\1\DATA\DEMO\CYCLISATION TIME COURSES 2015-12-09 08-41-41\10 TO
                  100 OV 15MIN 50UL.M
Last changed    : 12/9/2015 8:34:52 AM by Simi120102015
Analysis Method : D:\2014\CHRIS HPLC DATA\DATA\CYCLISATION TIME COURSES 2015-12-09 08-41-41
                  \10 TO 100 OV 15MIN 50UL.M (Sequence Method)
Last changed    : 12/9/2015 8:34:52 AM by Simi120102015
=====
  
```



=====
 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

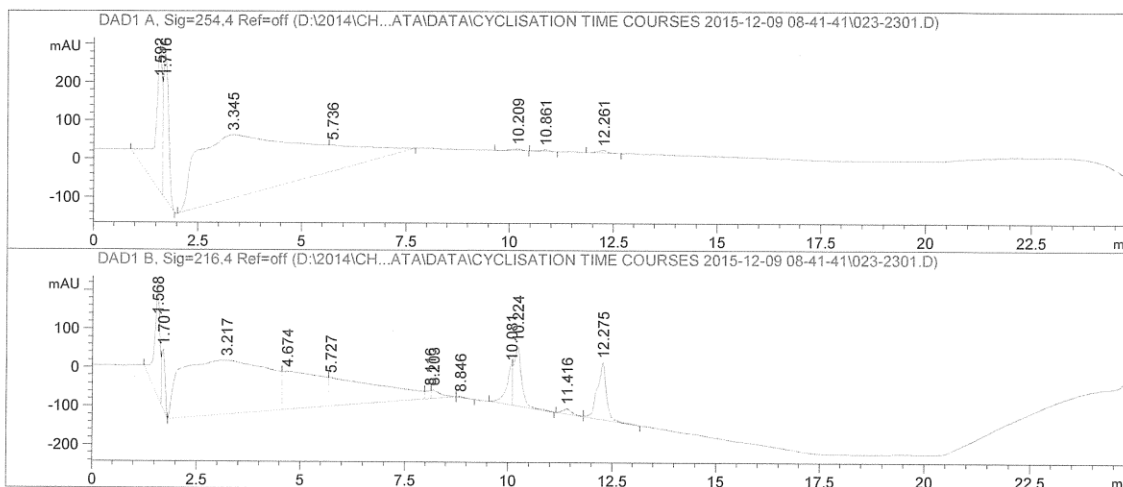
Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	1.598	BV	0.1721	4475.40674	357.39114	9.0291
2	1.716	VB	0.1296	2861.49512	349.05670	5.7731
3	3.356	BB	2.8882	4.14808e4	177.38484	83.6873
4	10.202	BV	0.4864	177.58722	4.52004	0.3583
5	12.234	VB	1.5600	571.15106	4.34961	1.1523

Totals : 4.95664e4 892.70234

Data File D:\2014\CH...C DATA\DATA\CYCLISATION TIME COURSES 2015-12-09 08-41-41\023-2301.D
 Sample Name: Pro S epi AIP I PS CD T=2

```

=====
Acq. Operator   : Simi120102015           Seq. Line : 23
Acq. Instrument : LC1260                  Location  : Vial 23
Injection Date  : 12/9/2015 6:23:10 PM    Inj       : 1
                                           Inj Volume: 50.000 µl
Acq. Method     : C:\CHEM32\1\DATA\DEMO\CYCLISATION TIME COURSES 2015-12-09 08-41-41\10 TO
100 OV 15MIN 50UL.M
Last changed    : 12/9/2015 8:34:52 AM by Simi120102015
Analysis Method : D:\2014\CHRIS HPLC DATA\DATA\CYCLISATION TIME COURSES 2015-12-09 08-41-41
\10 TO 100 OV 15MIN 50UL.M (Sequence Method)
Last changed    : 12/9/2015 8:34:52 AM by Simi120102015
=====
  
```



=====
 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	1.592	BV	0.1710	4785.58105	379.84222	12.4461
2	1.716	VB	0.1278	3116.48901	379.48575	8.1052
3	3.345	BV	1.9716	2.60660e4	166.57294	67.7914
4	5.736	VB	0.7355	4221.63525	68.64129	10.9795
5	10.209	BB	0.2575	86.80096	4.65526	0.2257
6	10.861	BB	0.2216	62.66041	3.98249	0.1630
7	12.261	BB	0.2353	111.13319	6.70899	0.2890

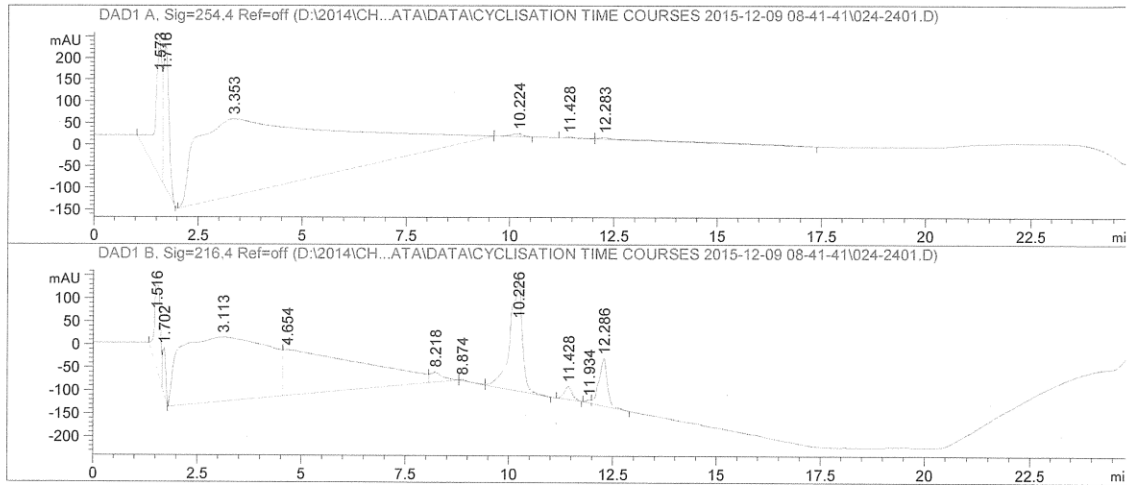
Totals : 3.84503e4 1009.88894

Sample Name: Pro S epi AIP I PS CD T=3

```

=====
Acq. Operator   : Simi120102015           Seq. Line : 24
Acq. Instrument : LC1260                  Location  : Vial 24
Injection Date  : 12/9/2015 6:49:33 PM    Inj       : 1
                                           Inj Volume: 50.000 µl

Acq. Method    : C:\CHEM32\1\DATA\DEMO\CYCLISATION TIME COURSES 2015-12-09 08-41-41\10 TO
                100 OV 15MIN 50UL.M
Last changed   : 12/9/2015 8:34:52 AM by Simi120102015
Analysis Method: D:\2014\CHRIS HPLC DATA\DATA\CYCLISATION TIME COURSES 2015-12-09 08-41-41
                \10 TO 100 OV 15MIN 50UL.M (Sequence Method)
Last changed   : 12/9/2015 8:34:52 AM by Simi120102015
=====
    
```



=====
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	1.573	BV	0.1631	3866.66553	315.27979	7.9711
2	1.716	VB	0.1345	2936.91284	328.01505	6.0544
3	3.353	BB	2.8744	4.10430e4	176.79466	84.6097
4	10.224	BB	0.2467	117.43279	6.26312	0.2421
5	11.428	BV	0.3077	56.32907	2.43674	0.1161
6	12.283	VB	1.3310	488.26379	4.40569	1.0066

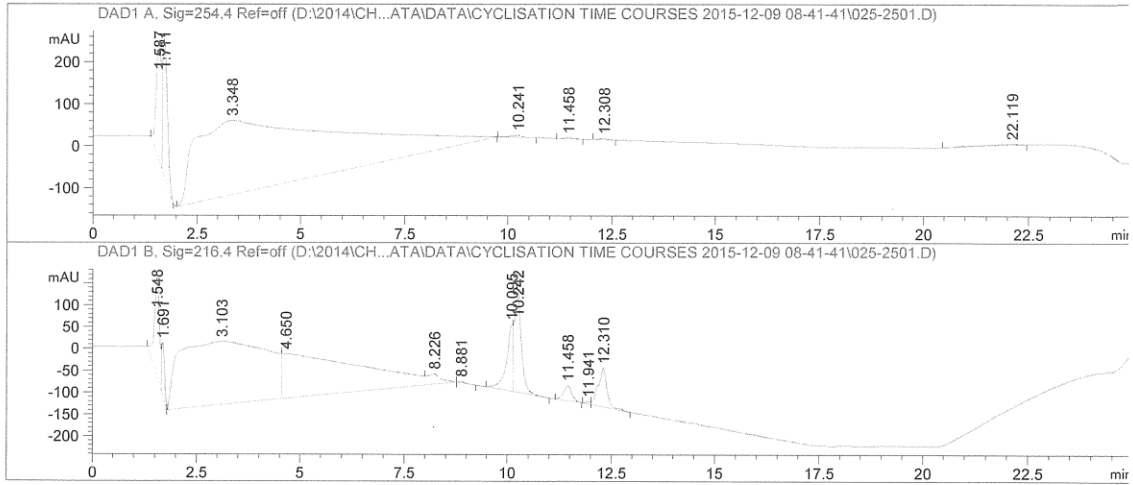
Totals : 4.85086e4 833.19503

Data File D:\2014\CH...C DATA\DATA\CYCLISATION TIME COURSES 2015-12-09 08-41-41\025-2501.D
 Sample Name: Pro S epi AIP I PS CD T=4

```

=====
Acq. Operator   : Simi120102015           Seq. Line : 25
Acq. Instrument : LC1260                  Location  : Vial 25
Injection Date  : 12/9/2015 7:15:55 PM    Inj       : 1
                                           Inj Volume: 50.000 µl

Acq. Method     : C:\CHEM32\1\DATA\DEMO\CYCLISATION TIME COURSES 2015-12-09 08-41-41\10 TO
100 OV 15MIN 50UL.M
Last changed    : 12/9/2015 8:34:52 AM by Simi120102015
Analysis Method : D:\2014\CHRIS HPLC DATA\DATA\CYCLISATION TIME COURSES 2015-12-09 08-41-41
\10 TO 100 OV 15MIN 50UL.M (Sequence Method)
Last changed    : 12/9/2015 8:34:52 AM by Simi120102015
=====
  
```



=====
 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	1.587	BV	0.1370	2517.76270	290.86017	5.3746
2	1.711	VB	0.1231	2619.98633	328.32071	5.5928
3	3.348	BB	2.8989	4.13049e4	176.33109	88.1717
4	10.241	BB	0.2320	101.90182	5.88484	0.2175
5	11.458	BB	0.2007	37.15019	2.69713	0.0793
6	12.308	BB	0.1748	37.44059	2.97651	0.0799
7	22.119	BB	1.1297	226.86057	2.48345	0.4843

Totals : 4.68460e4 809.55389

Sample Name: Pro S epi AIP I PS CD T=5

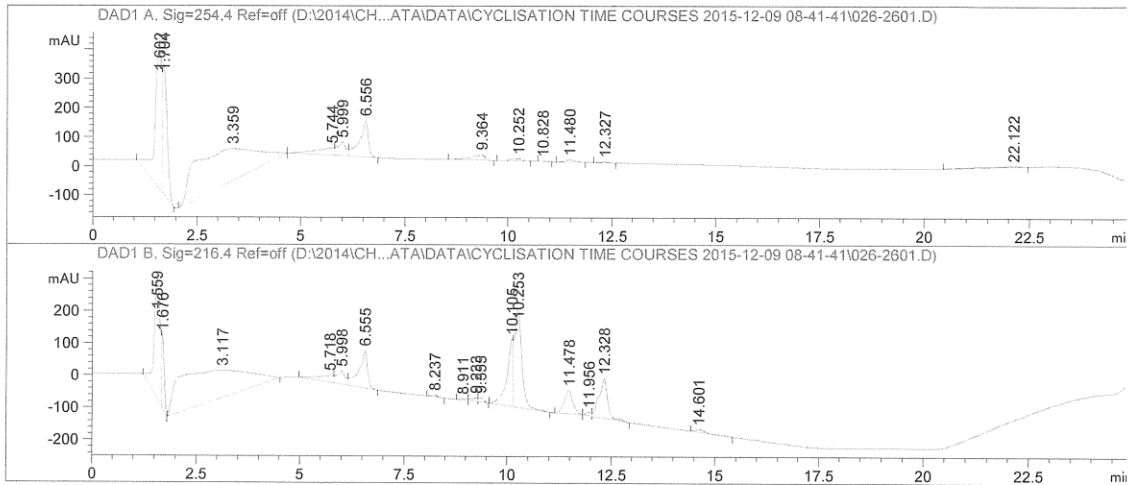
```

=====
Acq. Operator   : Simi120102015           Seq. Line : 26
Acq. Instrument : LC1260                  Location  : Vial 26
Injection Date  : 12/9/2015 7:42:17 PM    Inj       : 1
                                           Inj Volume: 50.000 µl

Acq. Method     : C:\CHEM32\1\DATA\DEMO\CYCLISATION TIME COURSES 2015-12-09 08-41-41\10 TO
                  100 OV 15MIN 50UL.M

Last changed    : 12/9/2015 8:34:52 AM by Simi120102015
Analysis Method : D:\2014\CHRIS HPLC DATA\DATA\CYCLISATION TIME COURSES 2015-12-09 08-41-41
                  \10 TO 100 OV 15MIN 50UL.M (Sequence Method)

Last changed    : 12/9/2015 8:34:52 AM by Simi120102015
=====
    
```



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

```

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

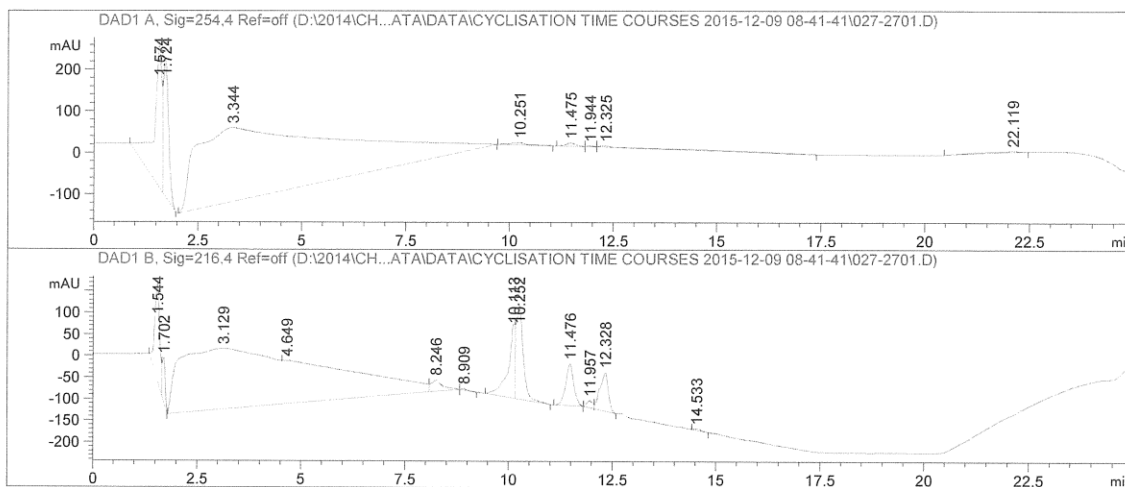
Signal 1: DAD1 A, Sig=254,4 Ref=off

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	1.602	BV	0.1680	5580.91895	508.85904	21.9606
2	1.704	VB	0.1156	3330.00220	443.56009	13.1034
3	3.359	BB	1.4560	1.22159e4	109.29186	48.0690
4	5.744	BV	0.3984	766.57751	25.52615	3.0164
5	5.999	VV	0.1941	690.55743	47.92941	2.7173
6	6.556	VB	0.1979	1854.15955	127.28959	7.2960
7	9.364	BB	0.2931	421.56686	18.69113	1.6588
8	10.252	BB	0.2312	139.49071	8.08670	0.5489
9	10.828	BB	0.1420	9.70850	1.02928	0.0382
10	11.480	BB	0.2287	122.68991	7.35035	0.4828

Data File D:\2014\CH...C DATA\DATA\CYCLISATION TIME COURSES 2015-12-09 08-41-41\027-2701.D
 Sample Name: Pro S epi AIP I PS CD T=6

```

=====
Acq. Operator   : Simi120102015           Seq. Line : 27
Acq. Instrument : LC1260                 Location  : Vial 27
Injection Date  : 12/9/2015 8:08:39 PM   Inj       : 1
                                           Inj Volume: 50.000 µl
Acq. Method     : C:\CHEM32\1\DATA\DEMO\CYCLISATION TIME COURSES 2015-12-09 08-41-41\10 TO
                : 100 OV 15MIN 50UL.M
Last changed    : 12/9/2015 8:34:52 AM by Simi120102015
Analysis Method : D:\2014\CHRIS HPLC DATA\DATA\CYCLISATION TIME COURSES 2015-12-09 08-41-41
                : \10 TO 100 OV 15MIN 50UL.M (Sequence Method)
Last changed    : 12/9/2015 8:34:52 AM by Simi120102015
=====
  
```



=====
 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	1.574	BV	0.1851	4707.99365	340.84787	9.4353
2	1.724	VB	0.1276	2849.03564	333.68732	5.7097
3	3.344	BB	2.8834	4.13704e4	177.22363	82.9101
4	10.251	BB	0.2719	118.68468	5.67604	0.2379
5	11.475	BV	0.2220	123.13974	7.89394	0.2468
6	11.944	VV	0.1930	29.98242	2.22746	0.0601
7	12.325	VB	1.3417	460.10406	4.08597	0.9221
8	22.119	BB	1.1310	238.57440	2.63836	0.4781

Totals : 4.98979e4 874.28059

Data File D:\2014\CH...C DATA\DATA\CYCLISATION TIME COURSES 2015-12-09 08-41-41\028-2801.D
 Sample Name: Pro S epi AIP I PS CD T=7

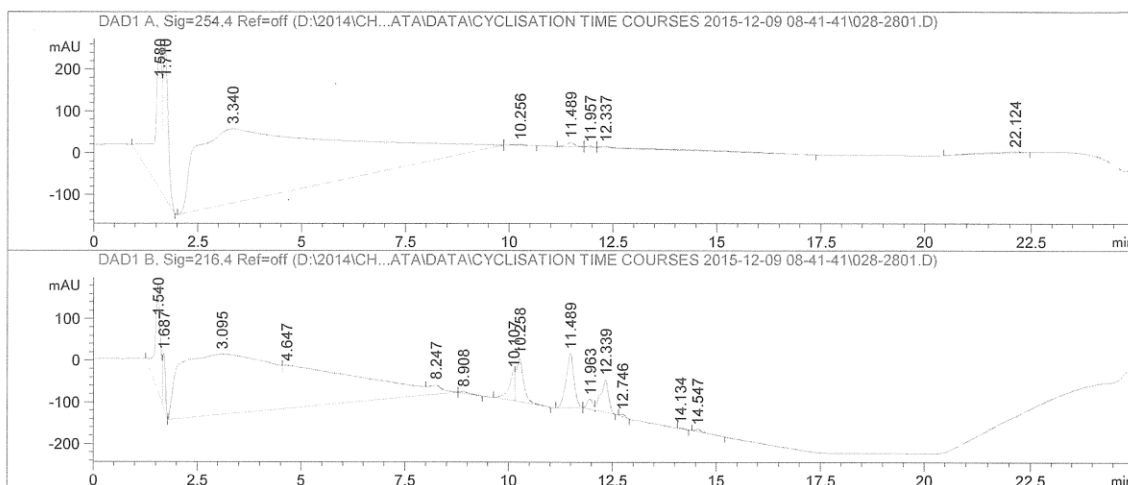
```

=====
Acq. Operator   : Simi120102015           Seq. Line : 28
Acq. Instrument : LC1260                 Location  : Vial 28
Injection Date  : 12/9/2015 8:35:02 PM   Inj       : 1
                                           Inj Volume: 50.000 µl

Acq. Method     : C:\CHEM32\1\DATA\DEMO\CYCLISATION TIME COURSES 2015-12-09 08-41-41\10 TO
                  100 OV 15MIN 50UL.M

Last changed    : 12/9/2015 8:34:52 AM by Simi120102015
Analysis Method : D:\2014\CHRIS HPLC DATA\DATA\CYCLISATION TIME COURSES 2015-12-09 08-41-41
                  \10 TO 100 OV 15MIN 50UL.M (Sequence Method)

Last changed    : 12/9/2015 8:34:52 AM by Simi120102015
=====
  
```



=====
 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	1.580	BV	0.1941	4443.66699	332.10226	8.8077
2	1.710	VB	0.1245	2983.06885	360.52243	5.9127
3	3.340	BB	2.9327	4.20051e4	177.00153	83.2577
4	10.256	BB	0.2146	41.02726	2.56509	0.0813
5	11.489	BV	0.2192	159.67226	10.51505	0.3165
6	11.957	VV	0.1934	46.38908	3.43854	0.0919
7	12.337	VB	1.5655	535.06836	4.06021	1.0606
8	22.124	BB	1.1321	237.91399	2.64833	0.4716

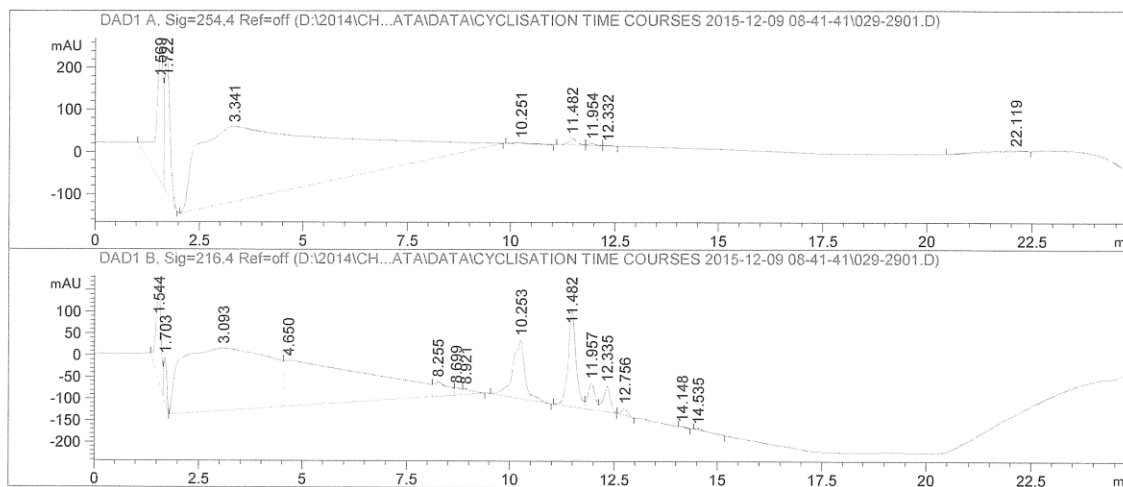
Totals : 5.04519e4 892.85345

Sample Name: Pro S epi AIP I PS CD T=8

```

=====
Acq. Operator   : Simi120102015           Seq. Line : 29
Acq. Instrument : LC1260                  Location  : Vial 29
Injection Date  : 12/9/2015 9:01:23 PM    Inj       : 1
                                           Inj Volume: 50.000 µl

Acq. Method     : C:\CHEM32\1\DATA\DEMO\CYCLISATION TIME COURSES 2015-12-09 08-41-41\10 TO
100 OV 15MIN 50UL.M
Last changed    : 12/9/2015 8:34:52 AM by Simi120102015
Analysis Method : D:\2014\CHRIS HPLC DATA\DATA\CYCLISATION TIME COURSES 2015-12-09 08-41-41
\10 TO 100 OV 15MIN 50UL.M (Sequence Method)
Last changed    : 12/9/2015 8:34:52 AM by Simi120102015
=====
    
```



=====
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	1.569	BV	0.1660	3945.06543	324.15161	8.0010
2	1.722	VB	0.1244	2753.34375	326.33218	5.5841
3	3.341	BB	2.9324	4.19959e4	177.36577	85.1726
4	10.251	BB	0.2612	67.30489	3.36711	0.1365
5	11.482	BV	0.1974	223.53157	16.35609	0.4533
6	11.954	VV	0.1812	62.37595	5.01051	0.1265
7	12.332	VB	0.1537	21.76268	2.08670	0.0441
8	22.119	BB	1.1242	237.54454	2.64390	0.4818

Totals : 4.93069e4 857.31387

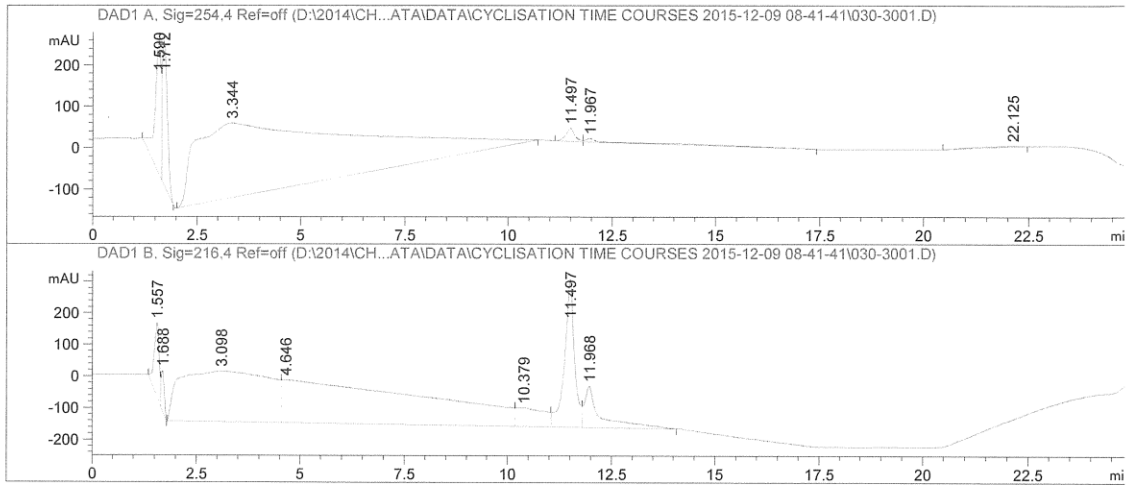
Data File D:\2014\CH...C DATA\DATA\CYCLISATION TIME COURSES 2015-12-09 08-41-41\030-3001.D
 Sample Name: Pro S epi AIP I PS CD 2 days

```
=====
Acq. Operator   : Simi120102015          Seq. Line : 30
Acq. Instrument : LC1260                 Location  : Vial 30
Injection Date  : 12/9/2015 9:27:46 PM   Inj       : 1
                                           Inj Volume: 50.000 µl

Acq. Method     : C:\CHEM32\1\DATA\DEMO\CYCLISATION TIME COURSES 2015-12-09 08-41-41\10 TO
                  100 OV 15MIN 50UL.M

Last changed    : 12/9/2015 8:34:52 AM by Simi120102015
Analysis Method : D:\2014\CHRIS HPLC DATA\DATA\CYCLISATION TIME COURSES 2015-12-09 08-41-41
                  \10 TO 100 OV 15MIN 50UL.M (Sequence Method)

Last changed    : 12/9/2015 8:34:52 AM by Simi120102015
=====
```



=====
 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

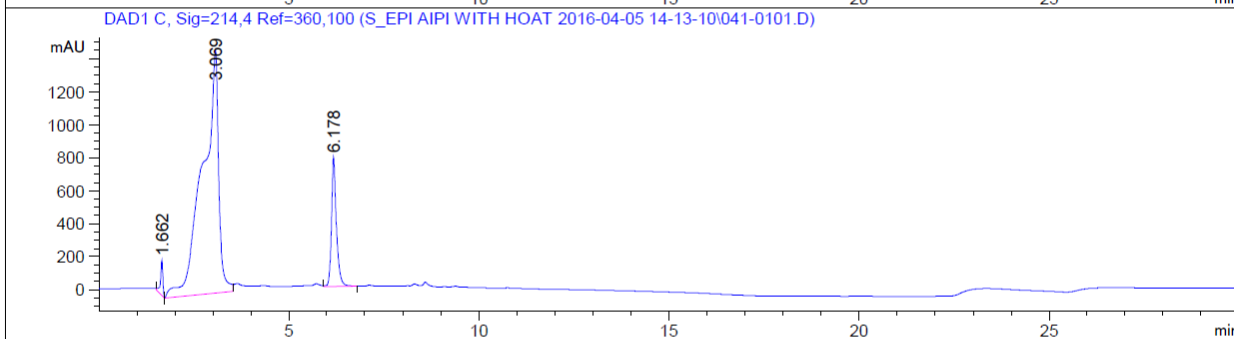
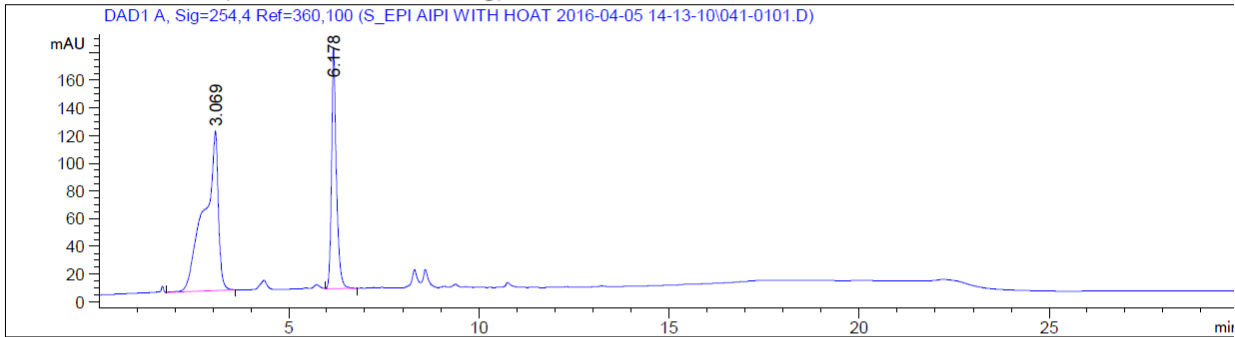
Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	1.590	BV	0.1557	3266.97339	323.89368	6.0611
2	1.712	VB	0.1223	2821.94189	348.96078	5.2354
3	3.344	BB	3.1929	4.65812e4	179.53839	86.4203
4	11.497	BV	0.2117	458.28003	31.50893	0.8502
5	11.967	VB	0.7869	533.45526	8.33246	0.9897
6	22.125	BB	1.1335	238.91240	2.66091	0.4432

Totals : 5.39007e4 894.89515

Data File C:\CHEM32\1\DATA\S_EPI AIPI WITH HOAT 2016-04-05 14-13-10\041-0101.D
Sample Name: S epi AIP I cyclised with HOAt t = 0

```
=====
Acq. Operator   : SYSTEM                               Seq. Line :    1
Acq. Instrument : LC1260                               Location  : Vial 41
Injection Date  : 4/5/2016 2:14:35 PM                 Inj       :    1
                                                    Inj Volume: 20.000 µl

Acq. Method     : C:\CHEM32\1\DATA\S_EPI AIPI WITH HOAT 2016-04-05 14-13-10\10 TO 100 OVER 15
                  MINS 20UL.M
Last changed    : 4/5/2016 2:13:10 PM by SYSTEM
Analysis Method : C:\CHEM32\1\DATA\S_EPI AIPI WITH HOAT 2016-04-05 14-13-10\10 TO 100 OVER 15
                  MINS 20UL.M (Sequence Method)
Last changed    : 4/5/2016 4:09:36 PM by SYSTEM
                  (modified after loading)
=====
```



=====
Fraction Information
=====

No Fractions found.
=====

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

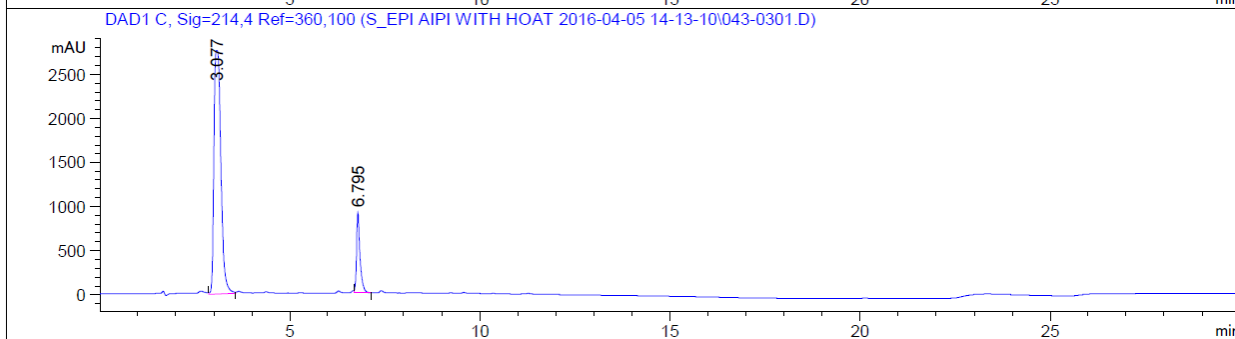
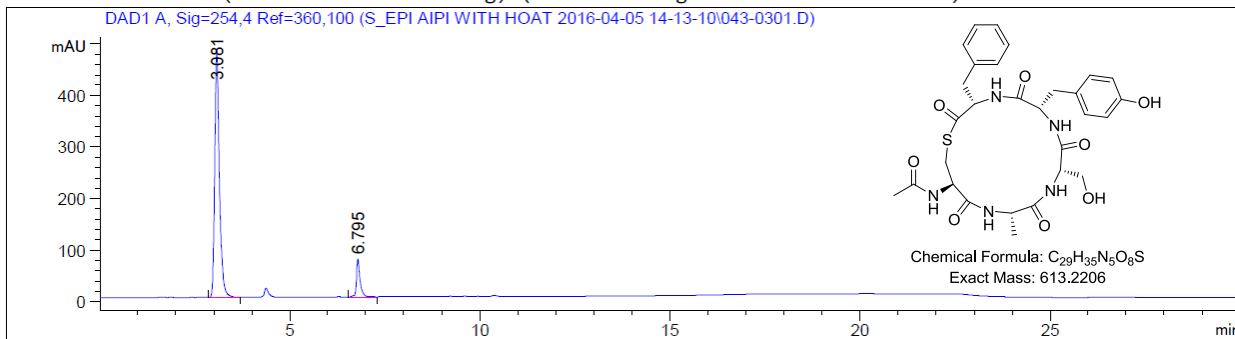
```
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Data File C:\CHEM32\1\DATA\S_EPI AIPI WITH HOAT 2016-04-05 14-13-10\043-0301.D
Sample Name: S epi AIP I cyclised with HOAT t = 2

=====

Acq. Operator : SYSTEM	Seq. Line : 3
Acq. Instrument : LC1260	Location : Vial 43
Injection Date : 4/5/2016 3:17:39 PM	Inj : 1
	Inj Volume : 20.000 µl
Acq. Method : C:\CHEM32\1\DATA\S_EPI AIPI WITH HOAT 2016-04-05 14-13-10\10 TO 100 OVER 15 MINS 20UL.M	
Last changed : 4/5/2016 2:13:10 PM by SYSTEM	
Analysis Method : C:\CHEM32\1\DATA\S_EPI AIPI WITH HOAT 2016-04-05 14-13-10\10 TO 100 OVER 15 MINS 20UL.M (Sequence Method)	
Last changed : 4/5/2016 4:09:36 PM by SYSTEM	

(modified after loading) (Current integration events modified)

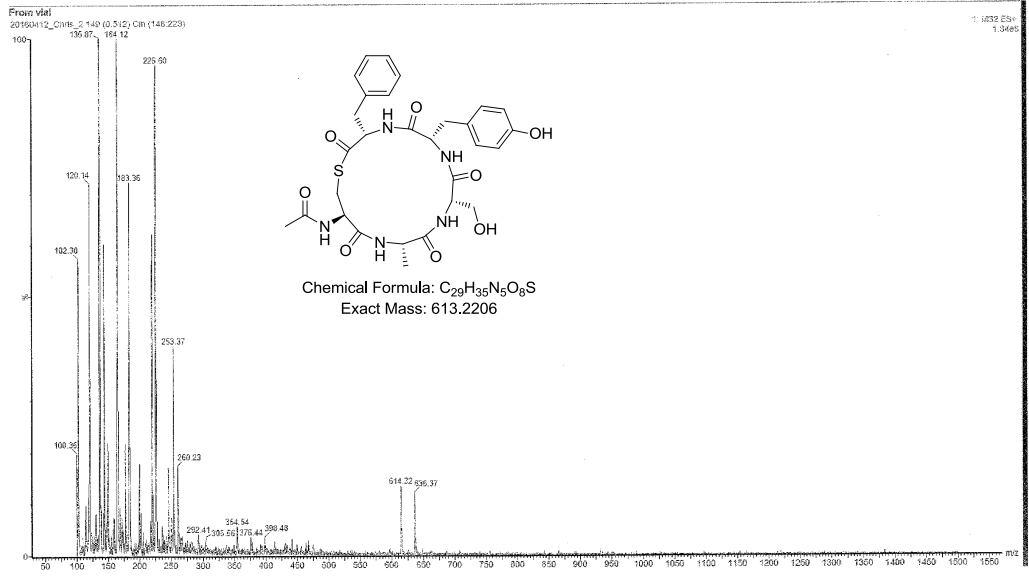


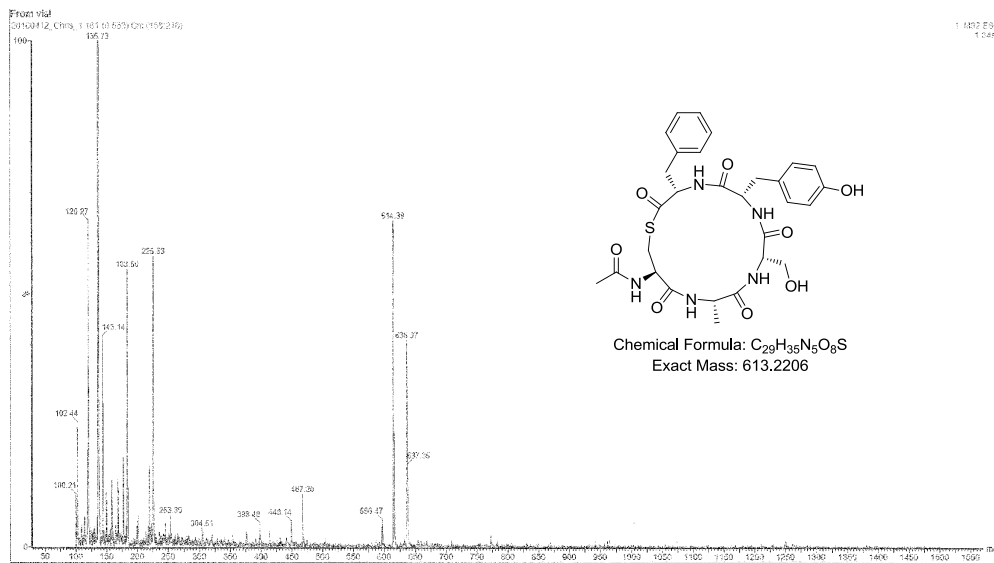
=====
Fraction Information
=====

No Fractions found.
=====

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

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





References

1. M. E. Olson, D. A. Todd, C. R. Schaeffer, A. E. Paharik, M. J. Van Dyke, H. Buettner, P. M. Dunman, H. Rohde, N. B. Cech, P. D. Fey and A. R. Horswill, *J. Bacteriol.*, 2014, **196**, 3482-3493, 3413 pp.
2. S. Heilbronner, M. T. G. Holden, A. van Tonder, J. A. Geoghegan, T. J. Foster, J. Parkhill and S. D. Bentley, *FEMS Microbiol. Lett.*, 2011, **322**, 60-67.
3. S. Heilbronner, F. Hanses, I. R. Monk, P. Speziale and T. J. Foster, *Microbiology*, 2013, **159**, 2141-2152.