

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG013019\  
 Data File : BG039331.D  
 Acq On : 30 Jan 2019 17:12  
 Operator : JU/SJ  
 Sample : K1282-35  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 TPW1

Integration Parameters: rteint.p  
 Integrator: RTE  
 Smoothing : ON  
 Sampling : 1  
 Start Thrs: 0.2  
 Stop Thrs : 0  
 Filtering: 5  
 Min Area: 3 % of largest Peak  
 Max Peaks: 100  
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
 Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG012919.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 3.228       | 18            | 24          | 32           | rBV      | 204872         | 373726        | 10.28%          | 2.020%        |
| 2         | 3.304       | 32            | 37          | 53           | rVB      | 145751         | 220734        | 6.07%           | 1.193%        |
| 3         | 5.261       | 365           | 370         | 380          | rVB      | 24552          | 40968         | 1.13%           | 0.221%        |
| 4         | 5.719       | 441           | 448         | 459          | rVB      | 440228         | 699455        | 19.24%          | 3.780%        |
| 5         | 7.311       | 712           | 719         | 734          | rBV      | 292243         | 529144        | 14.56%          | 2.860%        |
| 6         | 7.704       | 778           | 786         | 795          | rBV      | 761533         | 1302453       | 35.83%          | 7.040%        |
| 7         | 8.180       | 861           | 867         | 877          | rVB      | 168973         | 289204        | 7.96%           | 1.563%        |
| 8         | 8.503       | 914           | 922         | 931          | rBV      | 637480         | 1112499       | 30.61%          | 6.013%        |
| 9         | 9.355       | 1059          | 1067        | 1076         | rBV      | 556178         | 1014502       | 27.91%          | 5.483%        |
| 10        | 11.006      | 1340          | 1348        | 1355         | rBV      | 226475         | 414475        | 11.40%          | 2.240%        |
| 11        | 13.432      | 1748          | 1761        | 1768         | rBV      | 1558566        | 2424576       | 66.71%          | 13.105%       |
| 12        | 14.806      | 1988          | 1995        | 2003         | rVB2     | 373107         | 619102        | 17.03%          | 3.346%        |
| 13        | 16.287      | 2240          | 2247        | 2260         | rBV      | 1280450        | 1959637       | 53.91%          | 10.592%       |
| 14        | 17.550      | 2455          | 2462        | 2468         | rBV      | 525625         | 772971        | 21.27%          | 4.178%        |
| 15        | 18.407      | 2603          | 2608        | 2615         | rBV2     | 71717          | 108580        | 2.99%           | 0.587%        |
| 16        | 19.670      | 2819          | 2823        | 2827         | rBV3     | 57608          | 78301         | 2.15%           | 0.423%        |
| 17        | 20.146      | 2897          | 2904        | 2909         | rBV      | 2715860        | 3634712       | 100.00%         | 19.645%       |
| 18        | 21.445      | 3121          | 3125        | 3131         | rVB2     | 57742          | 75749         | 2.08%           | 0.409%        |
| 19        | 21.838      | 3186          | 3192        | 3199         | rBV      | 516287         | 885750        | 24.37%          | 4.787%        |
| 20        | 22.014      | 3218          | 3222        | 3227         | rVB      | 42787          | 63016         | 1.73%           | 0.341%        |
| 21        | 22.655      | 3326          | 3331        | 3337         | rBV      | 74660          | 114911        | 3.16%           | 0.621%        |
| 22        | 23.383      | 3449          | 3455        | 3465         | rVB      | 94623          | 187009        | 5.15%           | 1.011%        |
| 23        | 24.241      | 3594          | 3601        | 3609         | rBV2     | 93181          | 212803        | 5.85%           | 1.150%        |
| 24        | 25.239      | 3760          | 3771        | 3785         | rVB3     | 335205         | 1089835       | 29.98%          | 5.890%        |
| 25        | 26.467      | 3971          | 3980        | 3992         | rVB3     | 58298          | 184799        | 5.08%           | 0.999%        |
| 26        | 27.918      | 4219          | 4227        | 4238         | rBV3     | 29537          | 92813         | 2.55%           | 0.502%        |

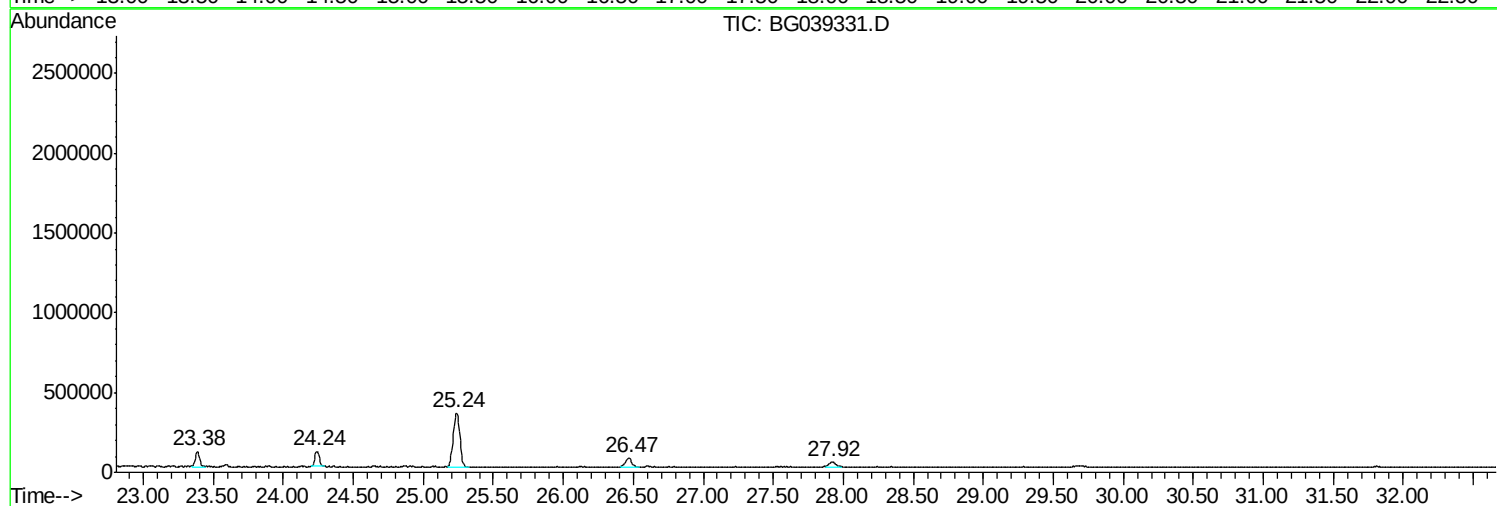
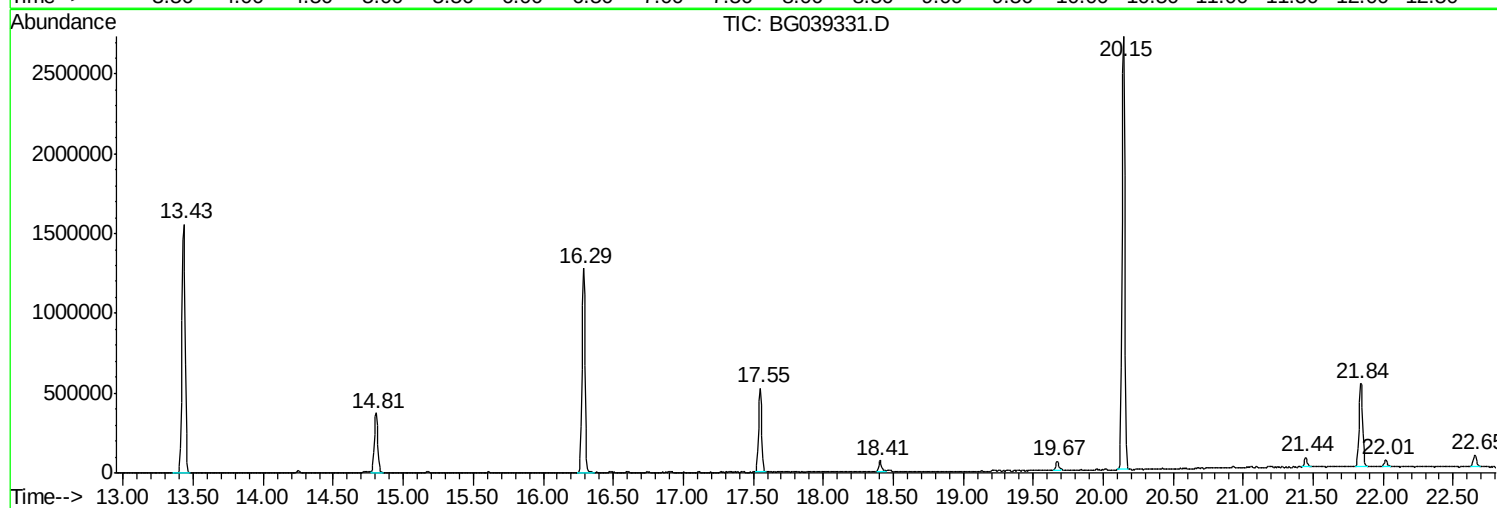
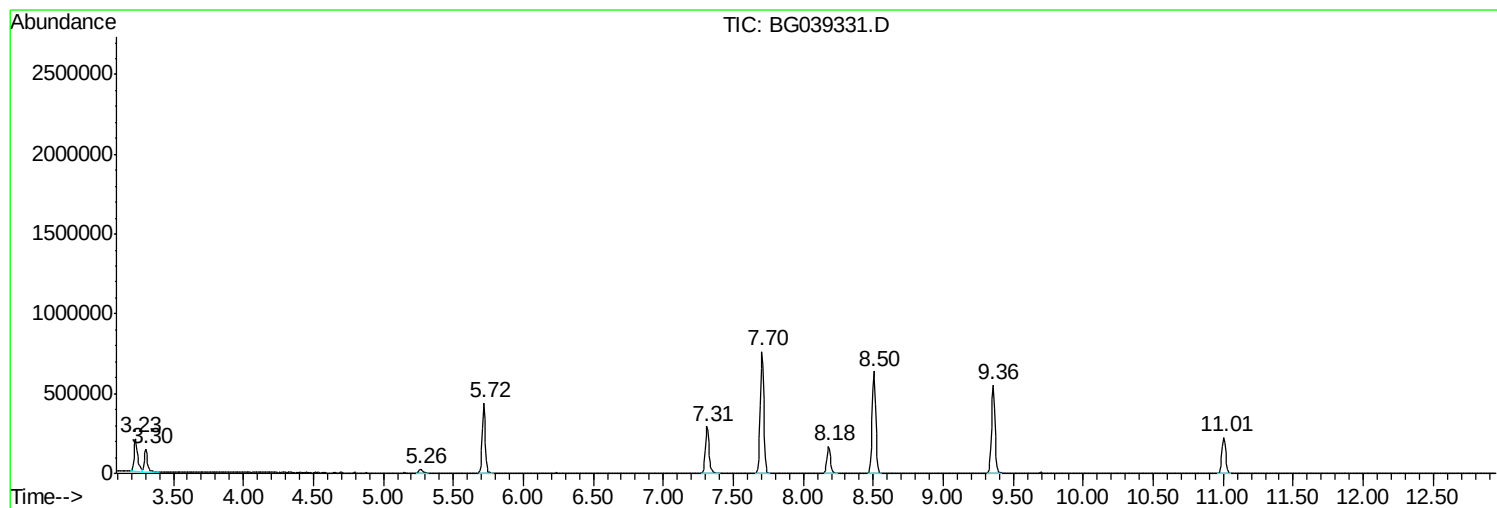
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG012919.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P



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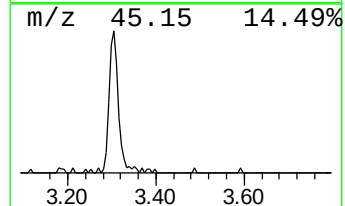
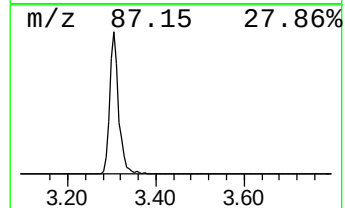
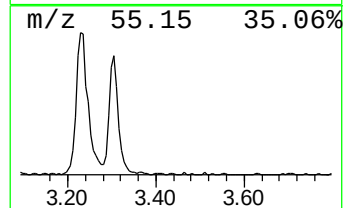
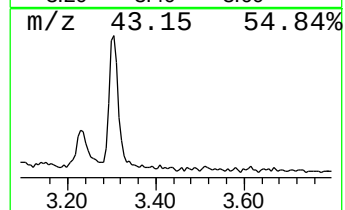
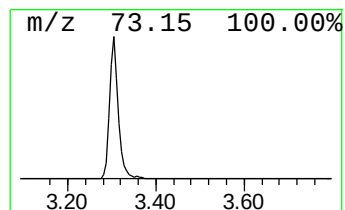
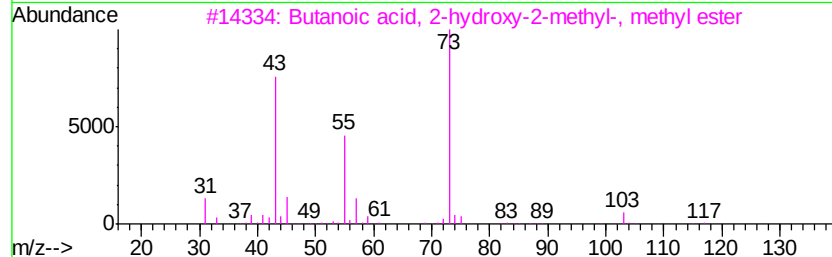
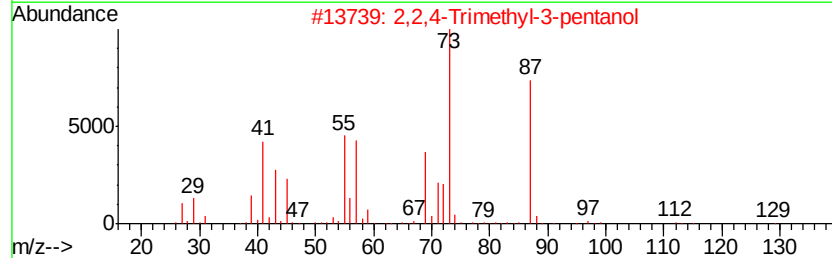
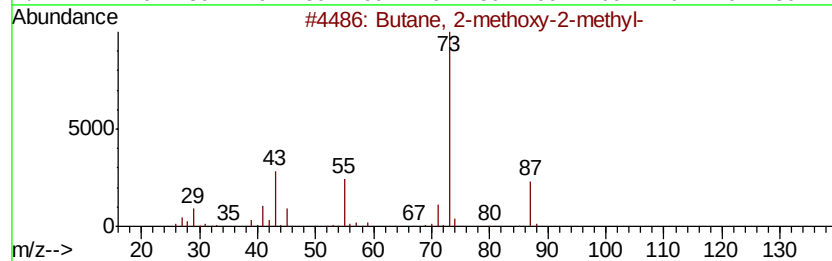
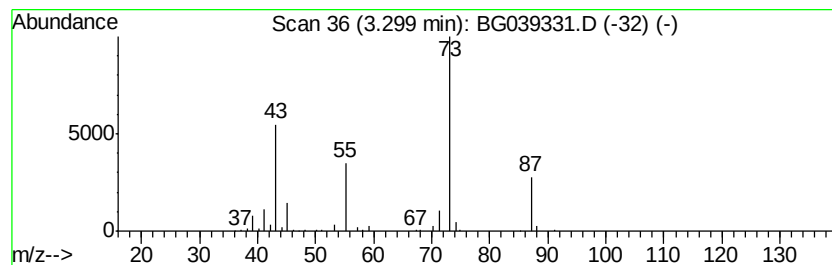
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 2 Butane, 2-methoxy-2-methyl- Concentration Rank 4

| R.T. | EstConc  | Area   | Relative to ISTD       | R.T. |
|------|----------|--------|------------------------|------|
| 3.30 | 15.26 ng | 220734 | 1,4-Dichlorobenzene-d4 | 8.18 |

| Hit# | of | Tentative ID                         | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Butane, 2-methoxy-2-methyl-          | 102 | C6H14O  | 000994-05-8 | 78   |
| 2    |    | 2,2,4-Trimethyl-3-pentanol           | 130 | C8H18O  | 005162-48-1 | 40   |
| 3    |    | Butanoic acid, 2-hydroxy-2-methyl... | 132 | C6H12O3 | 032793-34-3 | 25   |
| 4    |    | 2-Hydroxy-2-methylbutyric acid       | 118 | C5H10O3 | 003739-30-8 | 25   |
| 5    |    | 2-Methyl-5-hexen-3-ol                | 114 | C7H14O  | 032815-70-6 | 25   |



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Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG012919.M  
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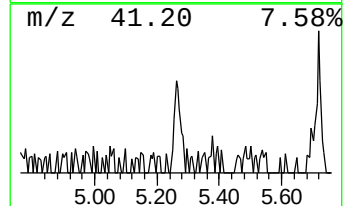
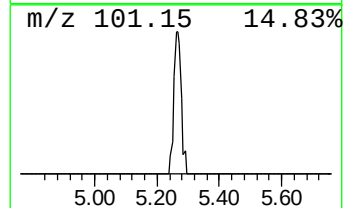
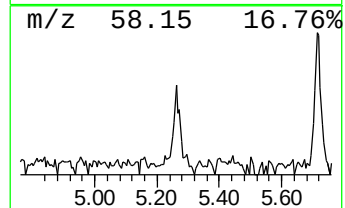
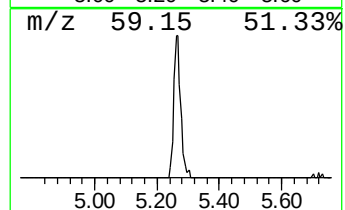
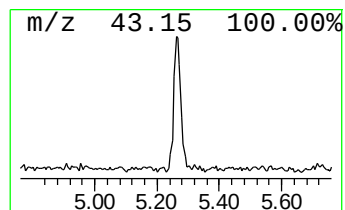
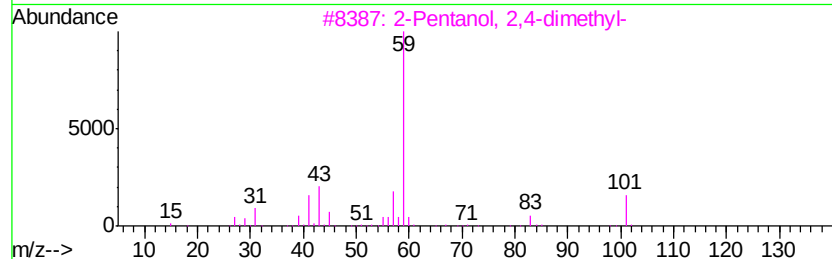
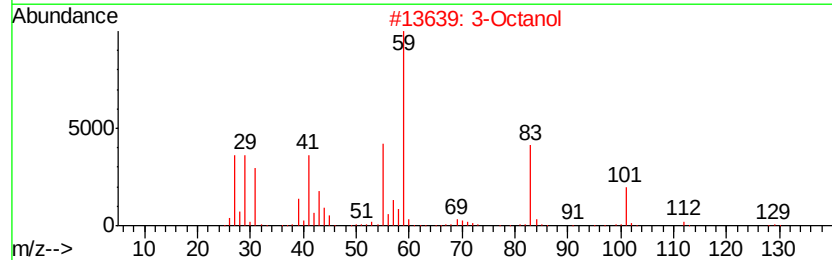
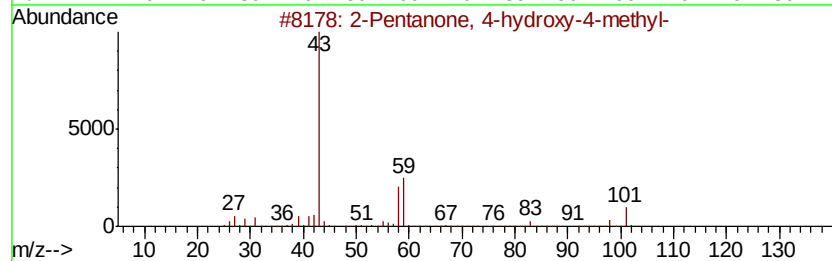
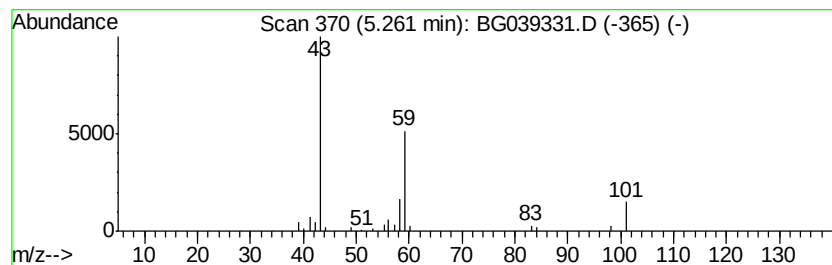
TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 3 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 8

| R.T. | EstConc | Area  | Relative to ISTD       | R.T. |
|------|---------|-------|------------------------|------|
| 5.26 | 2.83 ng | 40968 | 1,4-Dichlorobenzene-d4 | 8.18 |

| Hit# | of | Tentative ID                     | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------------|-----|---------|-------------|------|
| 1    | 5  | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 53   |
| 2    |    | 3-Octanol                        | 130 | C8H18O  | 000589-98-0 | 33   |
| 3    |    | 2-Pentanol, 2,4-dimethyl-        | 116 | C7H16O  | 000625-06-9 | 28   |
| 4    |    | 4-Penten-2-one, 4-methyl-        | 98  | C6H10O  | 003744-02-3 | 9    |
| 5    |    | 2-Pentanol, 2,3-dimethyl-        | 116 | C7H16O  | 004911-70-0 | 9    |



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Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
TPW1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG012919.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

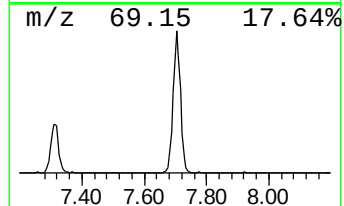
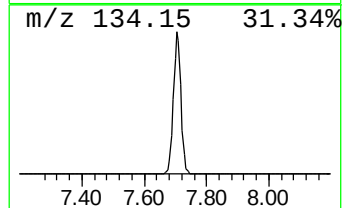
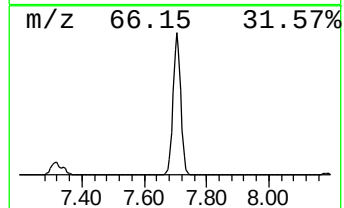
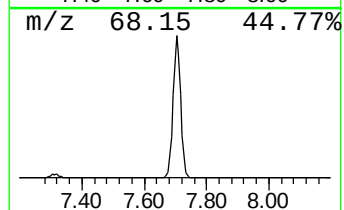
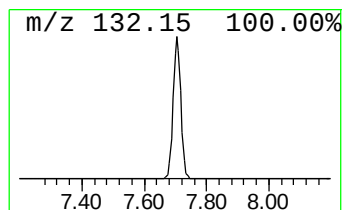
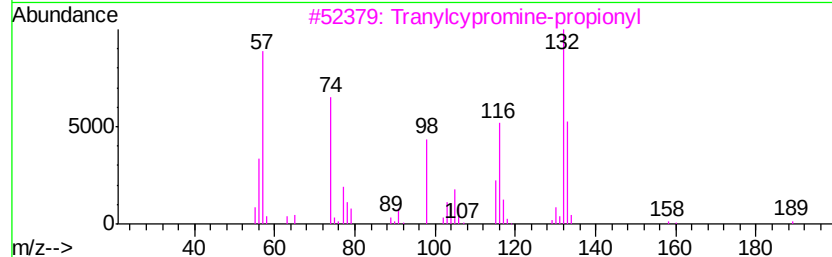
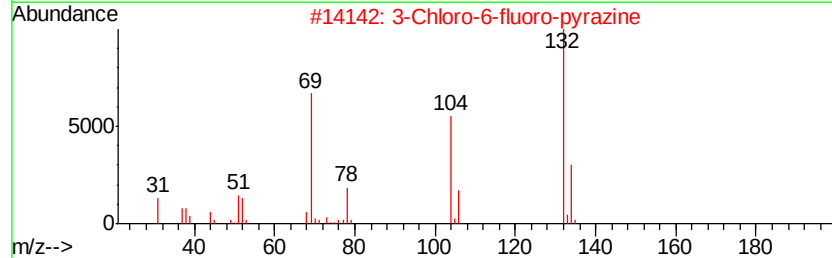
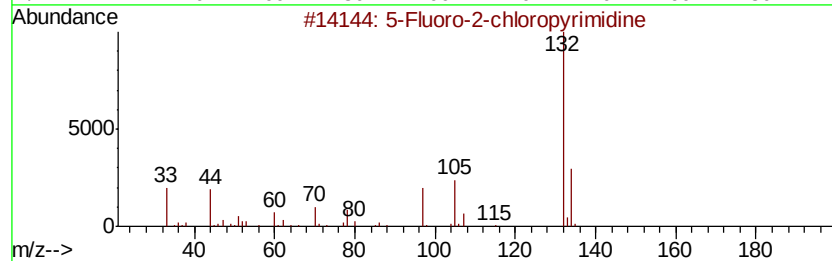
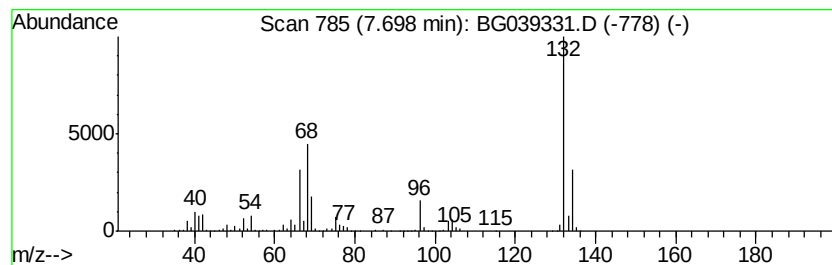
TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 4 unknown7.70 Concentration Rank 1

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 7.70 | 90.07 ng | 1302450 | 1,4-Dichlorobenzene-d4 | 8.18 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 5-Fluoro-2-chloropyrimidine         | 132 | C4H2ClFN2 | 062802-42-0  | 27   |
| 2    |    | 3-Chloro-6-fluoro-pyrazine          | 132 | C4H2ClFN2 | 1000146-10-7 | 27   |
| 3    |    | Tranvlcypropine-propionyl           | 189 | C12H15NO  | 1000123-86-3 | 12   |
| 4    |    | (5-Methyl-2-pyridyl)acetonitrile    | 132 | C8H8N2    | 1000241-93-9 | 10   |
| 5    |    | Bicyclo[4.2.0]octa-1,3,5-triene,... | 132 | C10H12    | 028749-81-7  | 9    |



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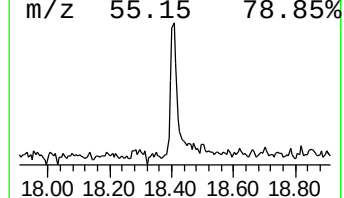
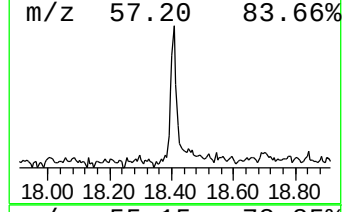
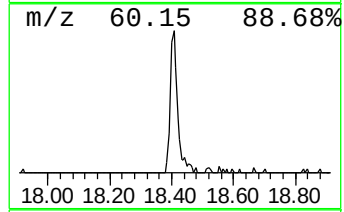
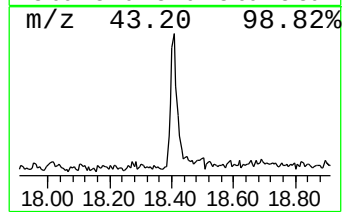
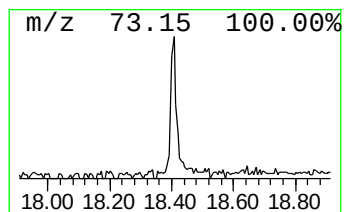
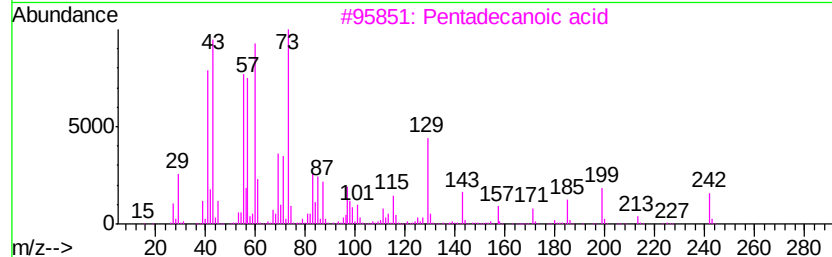
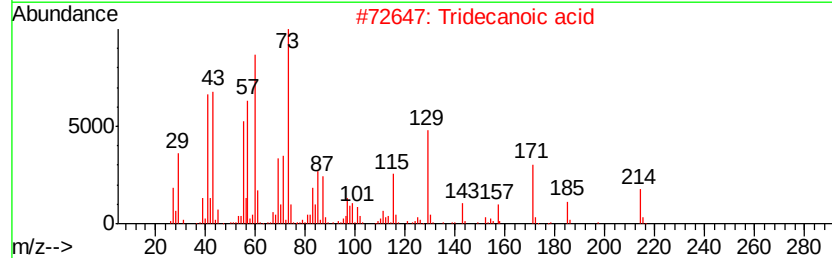
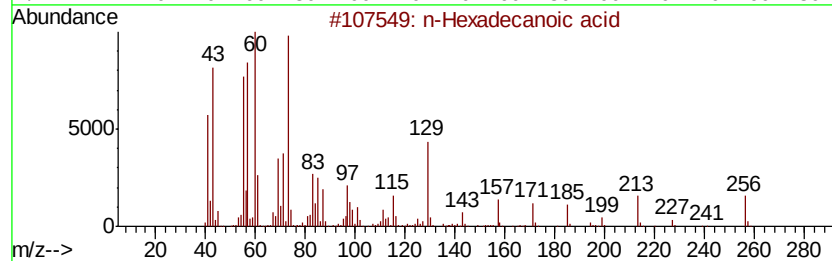
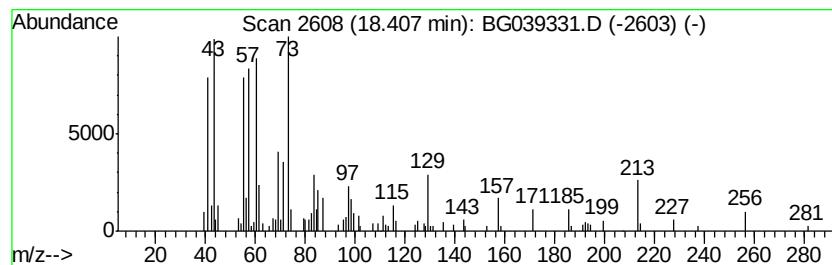
Instrument :  
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 Peak Number 6 n-Hexadecanoic acid Concentration Rank 9

| R.T.      | EstConc             | Area   | Relative to ISTD |             | R.T.  |
|-----------|---------------------|--------|------------------|-------------|-------|
| 18.41     | 2.81 ng             | 108580 | Phenanthrene-d10 |             | 17.55 |
| Hit# of 5 | Tentative ID        | MW     | MolForm          | CAS#        | Qual  |
| 1         | n-Hexadecanoic acid | 256    | C16H32O2         | 000057-10-3 | 97    |
| 2         | Tridecanoic acid    | 214    | C13H26O2         | 000638-53-9 | 93    |
| 3         | Pentadecanoic acid  | 242    | C15H30O2         | 001002-84-2 | 68    |
| 4         | Tetradecanoic acid  | 228    | C14H28O2         | 000544-63-8 | 59    |
| 5         | n-Decanoic acid     | 172    | C10H20O2         | 000334-48-5 | 47    |



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Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG012919.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

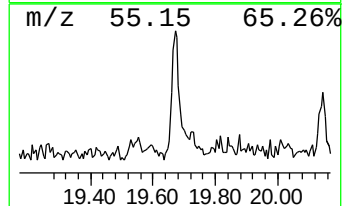
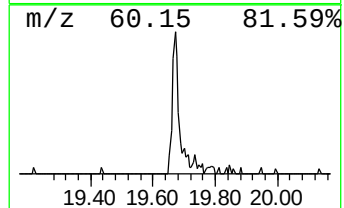
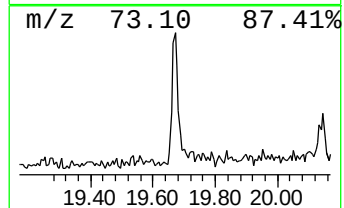
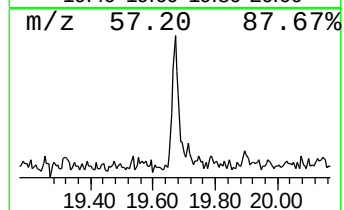
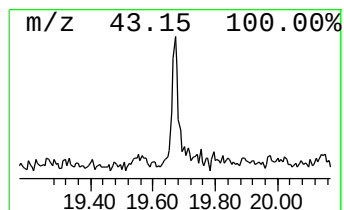
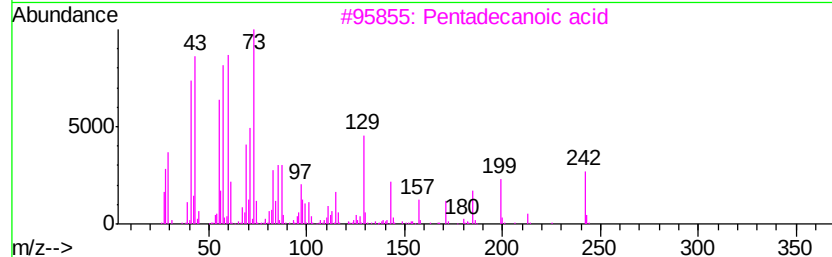
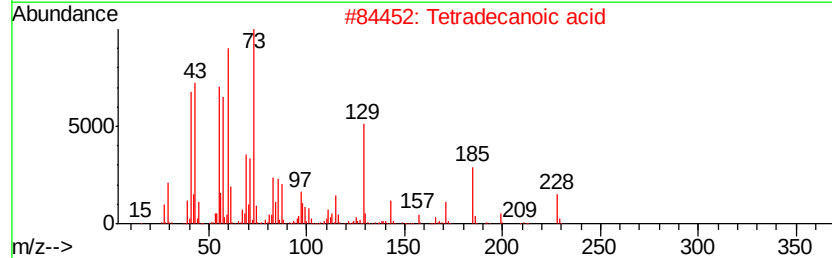
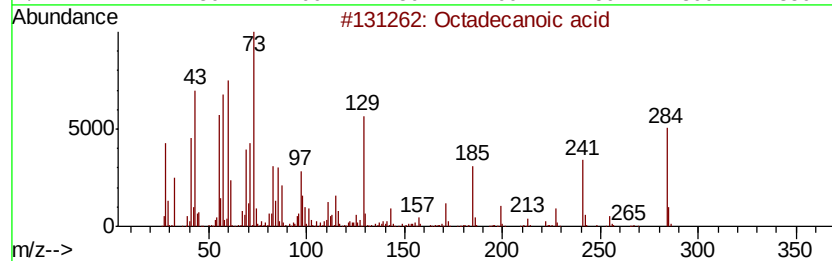
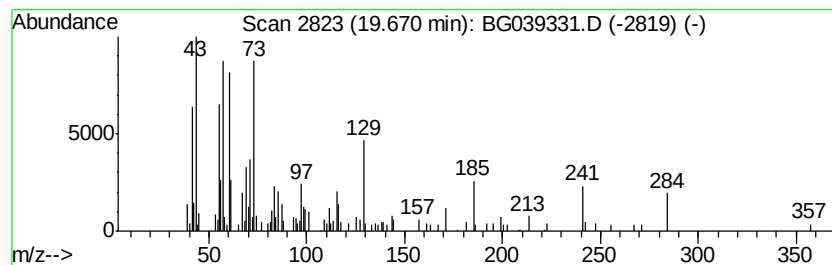
TIC Library : C:\Database\NIST11.L  
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Peak Number 7 Octadecanoic acid Concentration Rank 11

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 19.67 | 2.03 ng | 78301 | Phenanthrene-d10 | 17.55 |

| Hit# | of | Tentative ID       | MW  | MolForm   | CAS#        | Qual |
|------|----|--------------------|-----|-----------|-------------|------|
| 1    | 5  | Octadecanoic acid  | 284 | C18H36O2  | 000057-11-4 | 98   |
| 2    |    | Tetradecanoic acid | 228 | C14H28O2  | 000544-63-8 | 68   |
| 3    |    | Pentadecanoic acid | 242 | C15H30O2  | 001002-84-2 | 62   |
| 4    |    | Tridecanoic acid   | 214 | C13H26O2  | 000638-53-9 | 53   |
| 5    |    | Lactose            | 342 | C12H22O11 | 000063-42-3 | 49   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG013019\  
Data File : BG039331.D  
Acq On : 30 Jan 2019 17:12  
Operator : JU/SJ  
Sample : K1282-35  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
TPW1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG012919.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

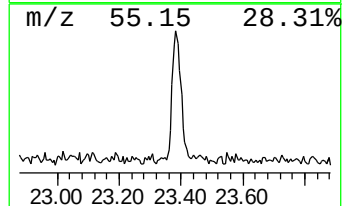
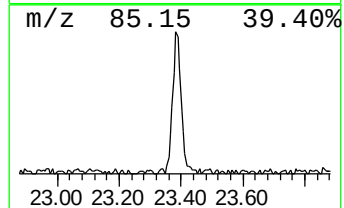
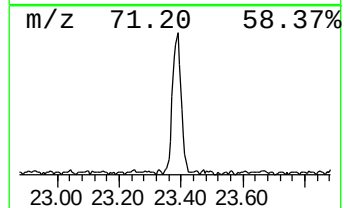
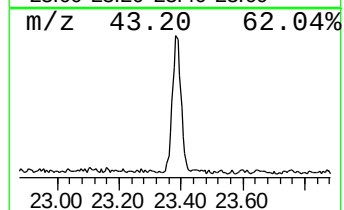
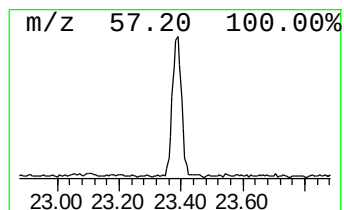
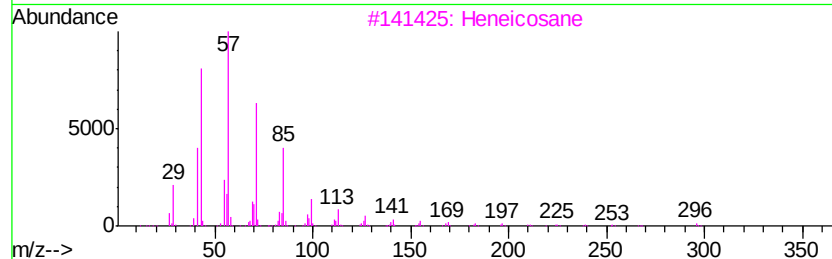
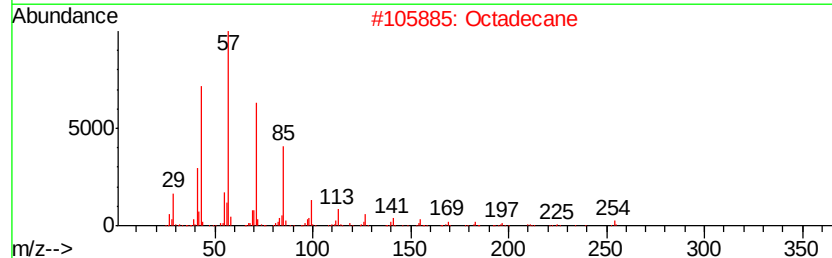
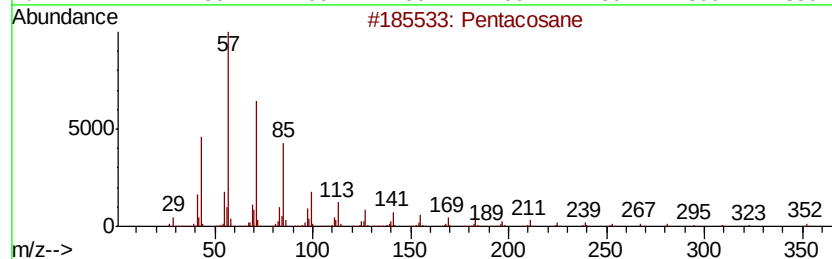
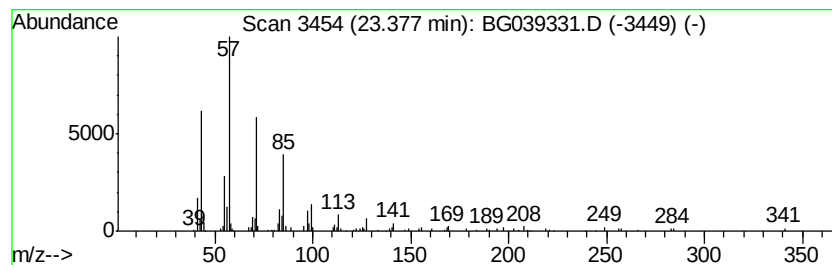
TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 9 Pentacosane Concentration Rank 5

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 23.38 | 4.22 ng | 187009 | Chrysene-d12     | 21.84 |

| Hit# | of | Tentative ID | MW  | MolForm | CAS#        | Qual |
|------|----|--------------|-----|---------|-------------|------|
| 1    | 5  | Pentacosane  | 352 | C25H52  | 000629-99-2 | 91   |
| 2    |    | Octadecane   | 254 | C18H38  | 000593-45-3 | 91   |
| 3    |    | Heneicosane  | 296 | C21H44  | 000629-94-7 | 90   |
| 4    |    | Eicosane     | 282 | C20H42  | 000112-95-8 | 90   |
| 5    |    | Docosane     | 310 | C22H46  | 000629-97-0 | 90   |





Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG013019\  
Data File : BG039331.D  
Acq On : 30 Jan 2019 17:12  
Operator : JU/SJ  
Sample : K1282-35  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
TPW1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG012919.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

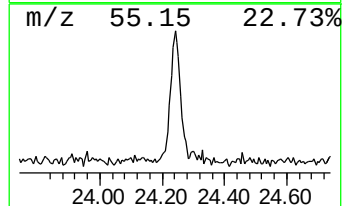
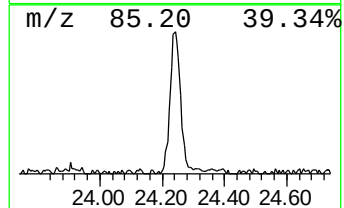
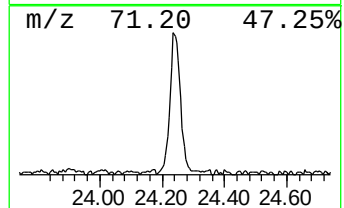
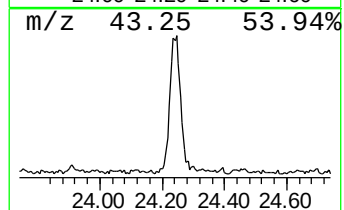
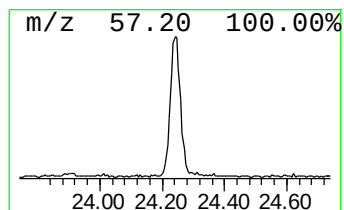
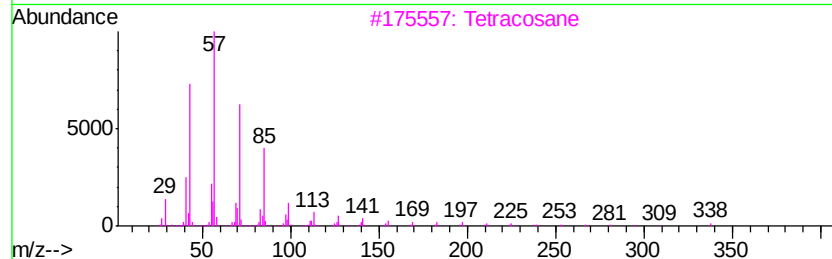
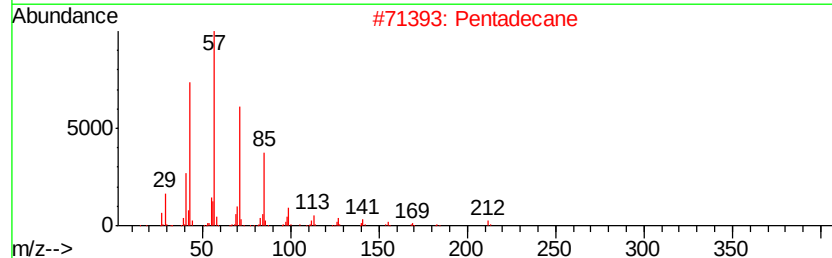
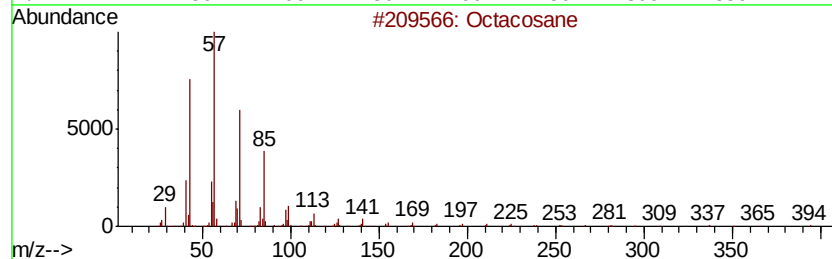
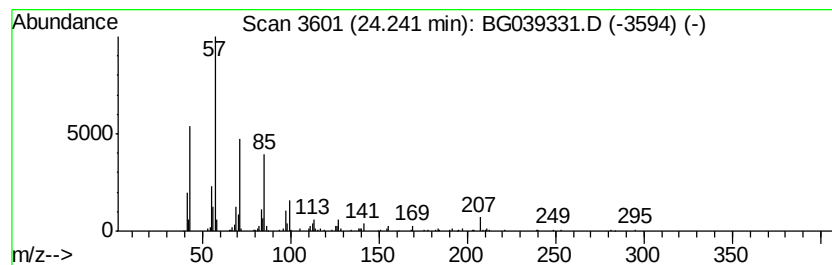
TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 10 Octacosane Concentration Rank 6

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 24.24 | 3.91 ng | 212803 | Perylene-d12     | 25.23 |

| Hit# | of | Tentative ID | MW  | MolForm | CAS#        | Qual |
|------|----|--------------|-----|---------|-------------|------|
| 1    | 5  | Octacosane   | 394 | C28H58  | 000630-02-4 | 91   |
| 2    |    | Pentadecane  | 212 | C15H32  | 000629-62-9 | 91   |
| 3    |    | Tetracosane  | 338 | C24H50  | 000646-31-1 | 87   |
| 4    |    | Hexacosane   | 366 | C26H54  | 000630-01-3 | 87   |
| 5    |    | Heneicosane  | 296 | C21H44  | 000629-94-7 | 87   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG013019\  
Data File : BG039331.D  
Acq On : 30 Jan 2019 17:12  
Operator : JU/SJ  
Sample : K1282-35  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

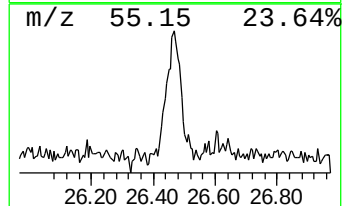
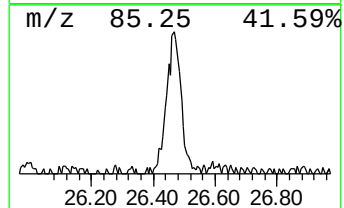
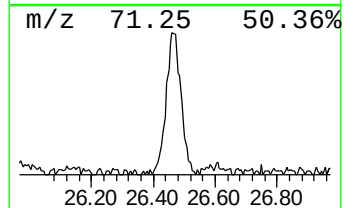
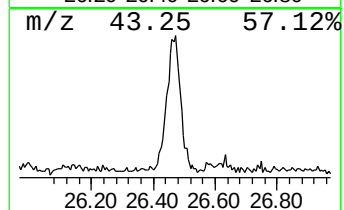
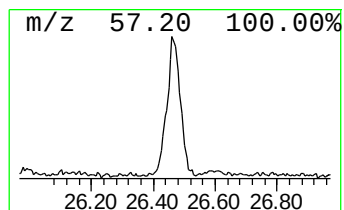
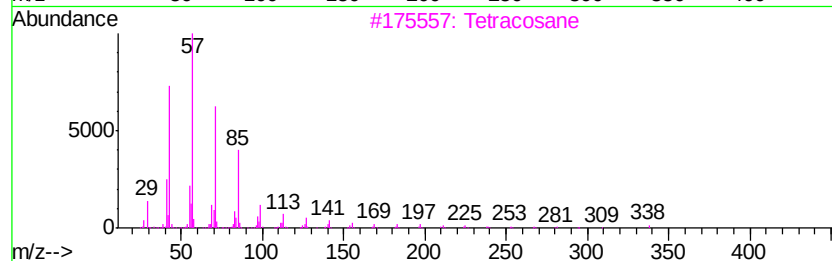
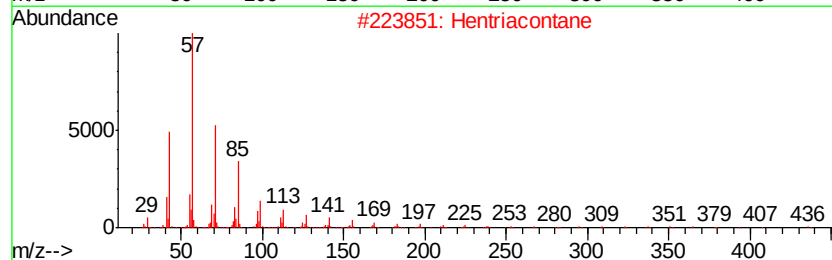
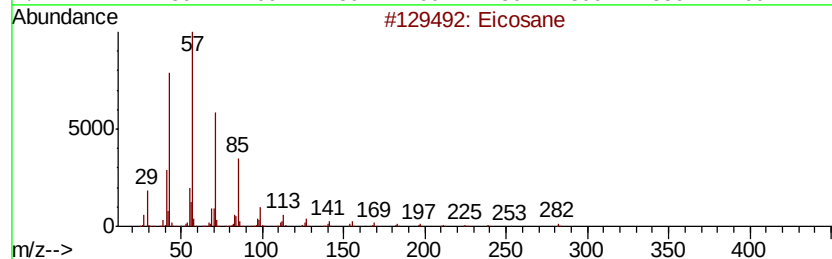
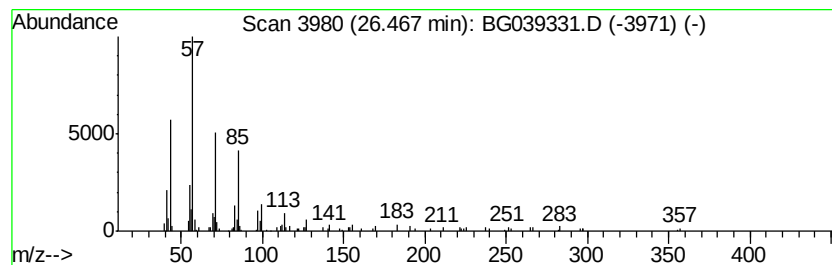
Instrument :  
BNA\_G  
ClientSampleId :  
TPW1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG012919.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 11 Eicosane Concentration Rank 7

| R.T.    | EstConc                | Area         | Relative to ISTD | R.T.           |
|---------|------------------------|--------------|------------------|----------------|
| 26.47   | 3.39 ng                | 184799       | Perylene-d12     | 25.23          |
| Hit# of | 5                      | Tentative ID | MW MolForm       | CAS# Qual      |
| 1       | Eicosane               |              | 282 C20H42       | 000112-95-8 95 |
| 2       | Hentriacontane         |              | 437 C31H64       | 000630-04-6 87 |
| 3       | Tetracosane            |              | 338 C24H50       | 000646-31-1 87 |
| 4       | Heneicosane, 11-decyl- |              | 437 C31H64       | 055320-06-4 87 |
| 5       | Heneicosane            |              | 296 C21H44       | 000629-94-7 83 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_G\DATA\BG013019\  
Data File : BG039331.D  
Acq On : 30 Jan 2019 17:12  
Operator : JU/SJ  
Sample : K1282-35  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
TPW1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG012919.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
|                      |       |         |       |          | #                     | RT    | Resp    | Conc |
| Butane, 2-methoxy... | 3.30  | 15.3    | ng    | 220734   | 1                     | 8.18  | 289204  | 20.0 |
| 2-Pentanone, 4-hy... | 5.26  | 2.8     | ng    | 40968    | 1                     | 8.18  | 289204  | 20.0 |
| unknown7.70          | 7.70  | 90.1    | ng    | 1302450  | 1                     | 8.18  | 289204  | 20.0 |
| n-Hexadecanoic acid  | 18.41 | 2.8     | ng    | 108580   | 4                     | 17.55 | 772971  | 20.0 |
| Octadecanoic acid    | 19.67 | 2.0     | ng    | 78301    | 4                     | 17.55 | 772971  | 20.0 |
| Pentacosane          | 23.38 | 4.2     | ng    | 187009   | 5                     | 21.84 | 885750  | 20.0 |
| Octacosane           | 24.24 | 3.9     | ng    | 212803   | 6                     | 25.23 | 1089840 | 20.0 |
| Eicosane             | 26.47 | 3.4     | ng    | 184799   | 6                     | 25.23 | 1089840 | 20.0 |