

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA\_F\DATA\BF111117\  
 Data File : BF100431.D  
 Acq On : 11 Nov 2017 11:00  
 Operator : SJ/JU  
 Sample : I6399-06  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-12

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:\HPCHEM1\BNA\_F\METHODS\8270-BF110817.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         | 2.205       | 17            | 20          | 26           | rVB      | 32582          | 50394         | 1.47%           | 0.163%        |
| 2         | 3.446       | 225           | 231         | 240          | rVB      | 34206          | 56640         | 1.65%           | 0.184%        |
| 3         | 4.010       | 322           | 327         | 332          | rVB      | 97224          | 116462        | 3.40%           | 0.378%        |
| 4         | 5.134       | 513           | 518         | 526          | rBV      | 562329         | 681072        | 19.88%          | 2.209%        |
| 5         | 5.393       | 559           | 562         | 566          | rVB      | 59419          | 52780         | 1.54%           | 0.171%        |
| 6         | 5.522       | 576           | 584         | 588          | rBV      | 3046696        | 3426157       | 100.00%         | 11.113%       |
| 7         | 5.628       | 598           | 602         | 605          | rBV      | 1224422        | 1031145       | 30.10%          | 3.345%        |
| 8         | 5.757       | 620           | 624         | 627          | rVB      | 61065          | 49429         | 1.44%           | 0.160%        |
| 9         | 6.528       | 749           | 755         | 760          | rBV      | 2993708        | 3320948       | 96.93%          | 10.772%       |
| 10        | 6.675       | 775           | 780         | 783          | rBV      | 3250548        | 3178382       | 92.77%          | 10.309%       |
| 11        | 6.904       | 815           | 819         | 822          | rBV      | 1139595        | 951558        | 27.77%          | 3.086%        |
| 12        | 7.057       | 841           | 845         | 849          | rBV      | 2554432        | 2411160       | 70.38%          | 7.821%        |
| 13        | 7.463       | 906           | 914         | 917          | rBV      | 2094685        | 2066514       | 60.32%          | 6.703%        |
| 14        | 8.187       | 1033          | 1037        | 1039         | rBV      | 1301494        | 1193172       | 34.83%          | 3.870%        |
| 15        | 8.204       | 1039          | 1040        | 1043         | rVB      | 76903          | 43582         | 1.27%           | 0.141%        |
| 16        | 9.081       | 1186          | 1189        | 1194         | rBV3     | 40108          | 39568         | 1.15%           | 0.128%        |
| 17        | 9.257       | 1214          | 1219        | 1222         | rBV      | 3350445        | 3030641       | 88.46%          | 9.830%        |
| 18        | 9.645       | 1282          | 1285        | 1289         | rVB      | 228242         | 193041        | 5.63%           | 0.626%        |
| 19        | 9.863       | 1315          | 1322        | 1324         | rVB4     | 24363          | 38069         | 1.11%           | 0.123%        |
| 20        | 9.939       | 1331          | 1335        | 1339         | rBV      | 1364699        | 1154591       | 33.70%          | 3.745%        |
| 21        | 10.257      | 1384          | 1389        | 1390         | rBV      | 39074          | 50523         | 1.47%           | 0.164%        |
| 22        | 10.728      | 1465          | 1469        | 1472         | rBV      | 1732849        | 1594300       | 46.53%          | 5.171%        |
| 23        | 10.839      | 1485          | 1488        | 1497         | rBV2     | 53519          | 91694         | 2.68%           | 0.297%        |
| 24        | 11.427      | 1584          | 1588        | 1590         | rBV      | 1051855        | 966882        | 28.22%          | 3.136%        |
| 25        | 11.445      | 1590          | 1591        | 1595         | rVB      | 54366          | 43858         | 1.28%           | 0.142%        |
| 26        | 11.945      | 1670          | 1676        | 1680         | rBV2     | 362161         | 409257        | 11.95%          | 1.327%        |
| 27        | 12.480      | 1764          | 1767        | 1769         | rBV      | 37344          | 37704         | 1.10%           | 0.122%        |
| 28        | 12.639      | 1791          | 1794        | 1798         | rBV      | 129469         | 108354        | 3.16%           | 0.351%        |
| 29        | 12.727      | 1806          | 1809        | 1814         | rBV2     | 188357         | 197978        | 5.78%           | 0.642%        |
| 30        | 12.863      | 1830          | 1832        | 1839         | rVB      | 96661          | 113087        | 3.30%           | 0.367%        |
| 31        | 13.010      | 1853          | 1857        | 1860         | rBV      | 2114581        | 1861141       | 54.32%          | 6.037%        |
| 32        | 13.892      | 2005          | 2007        | 2014         | rVB      | 308443         | 309088        | 9.02%           | 1.003%        |
| 33        | 14.063      | 2032          | 2036        | 2039         | rBV      | 1019277        | 973019        | 28.40%          | 3.156%        |
| 34        | 15.551      | 2285          | 2289        | 2298         | rVB      | 583213         | 988283        | 28.85%          | 3.206%        |

## LSC Area Percent Report

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF111117\  
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Operator : SJ/JU  
Sample : I6399-06  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP-12

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

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

Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF110817.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

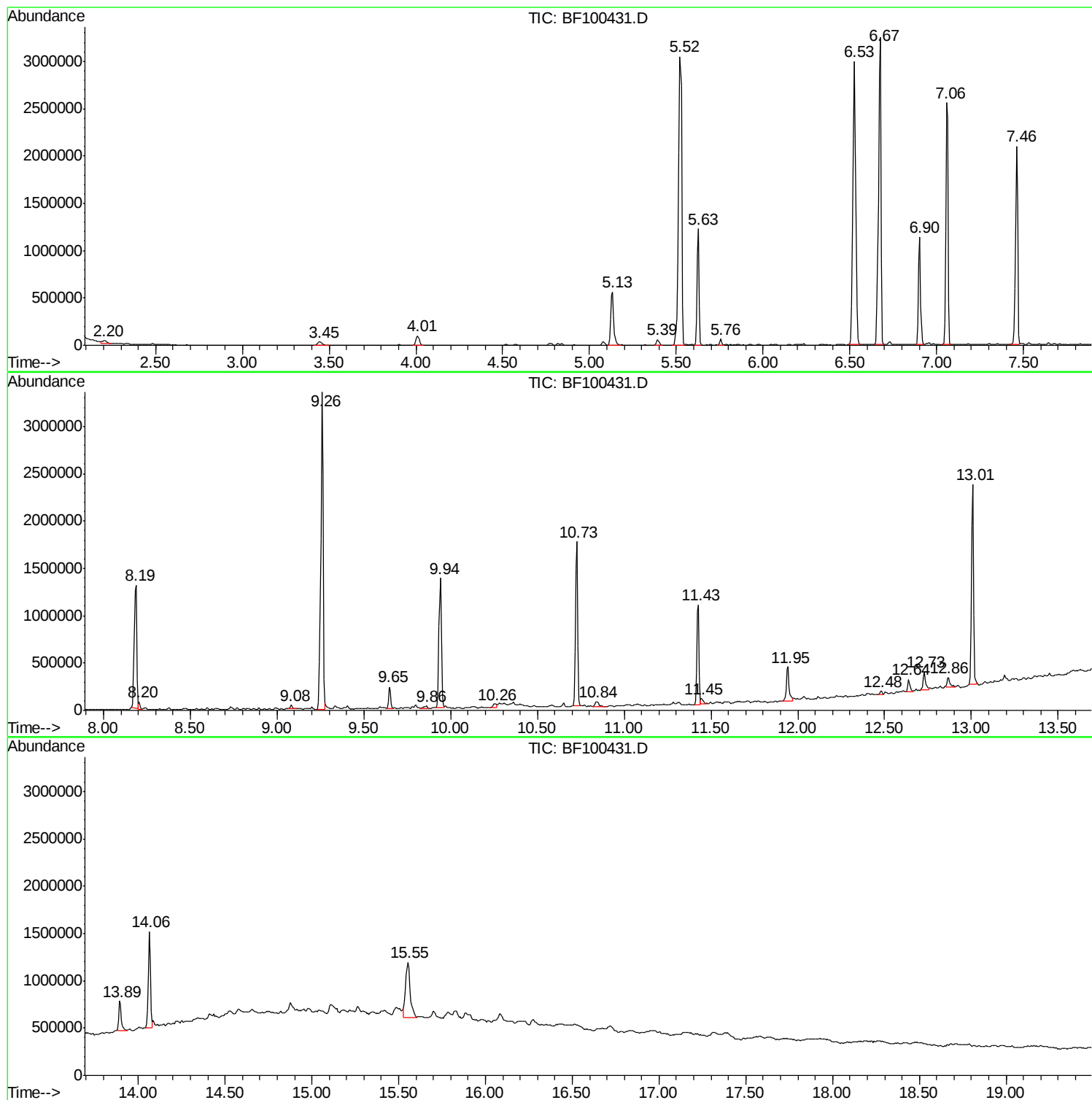
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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF110817.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF111117\  
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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF110817.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

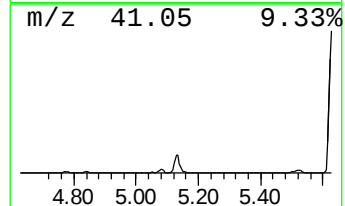
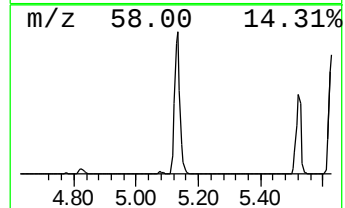
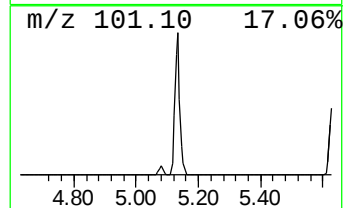
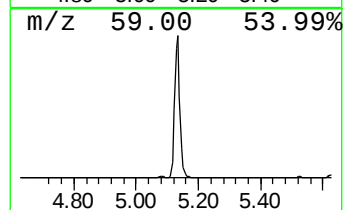
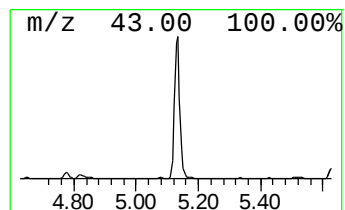
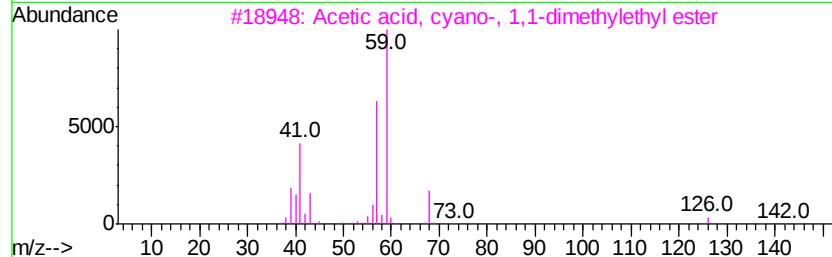
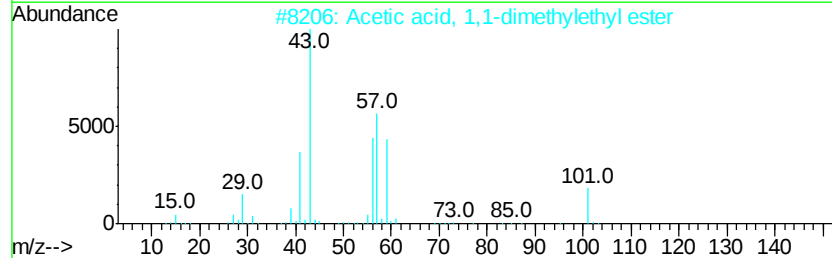
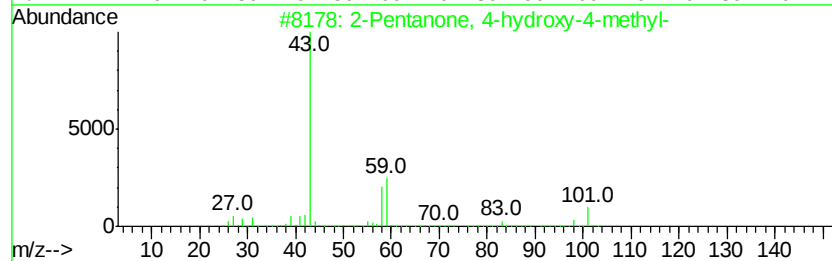
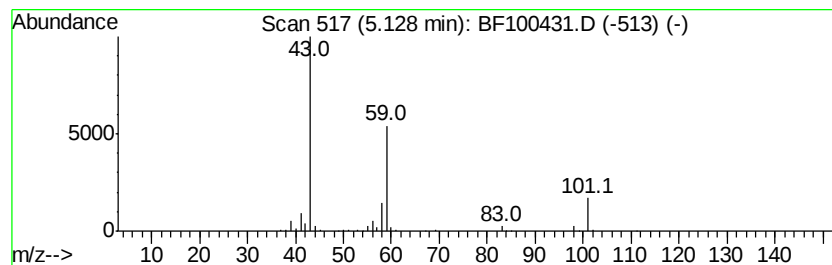
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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

| R.T. | EstConc  | Area   | Relative to ISTD       | R.T. |
|------|----------|--------|------------------------|------|
| 5.13 | 14.31 ng | 681072 | 1,4-Dichlorobenzene-d4 | 6.90 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | 2-Pentanone, 4-hydroxy-4-methyl-    | 116 | C6H12O2  | 000123-42-2 | 50   |
| 2    |    | Acetic acid, 1,1-dimethylethyl e... | 116 | C6H12O2  | 000540-88-5 | 39   |
| 3    |    | Acetic acid, cyano-, 1,1-dimethy... | 141 | C7H11NO2 | 001116-98-9 | 25   |
| 4    |    | 2,3-Butanedione, monooxime          | 101 | C4H7NO2  | 000057-71-6 | 9    |
| 5    |    | Morpholine, 4-methyl-               | 101 | C5H11NO  | 000109-02-4 | 9    |



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ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampled :  
TP-12

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF110817.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

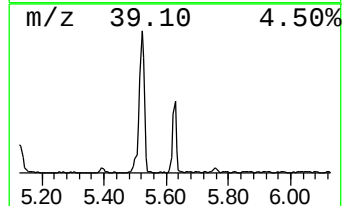
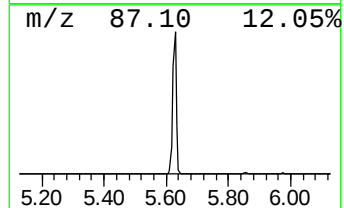
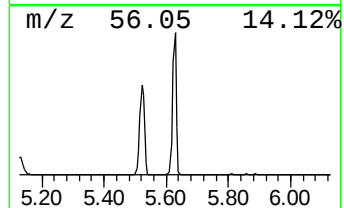
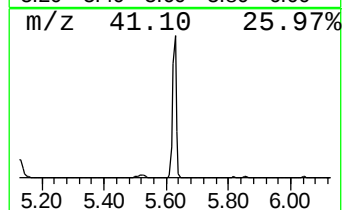
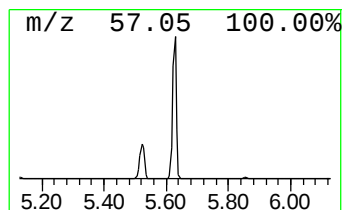
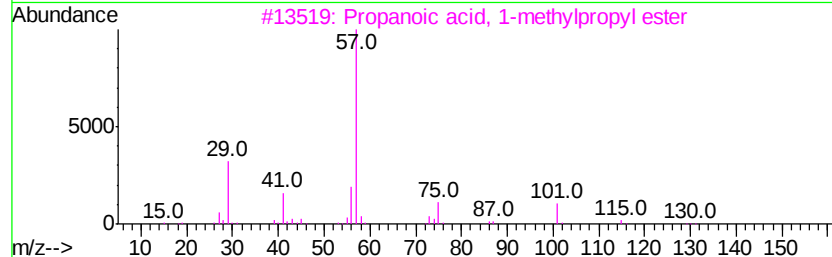
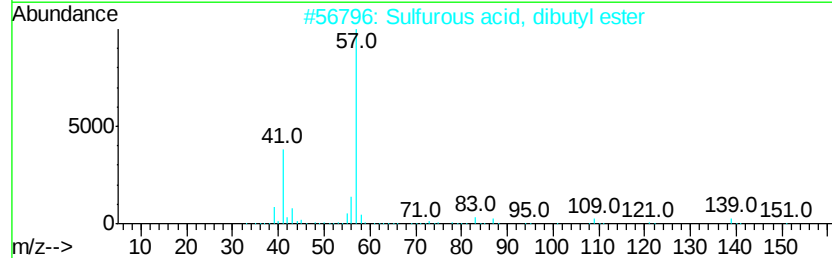
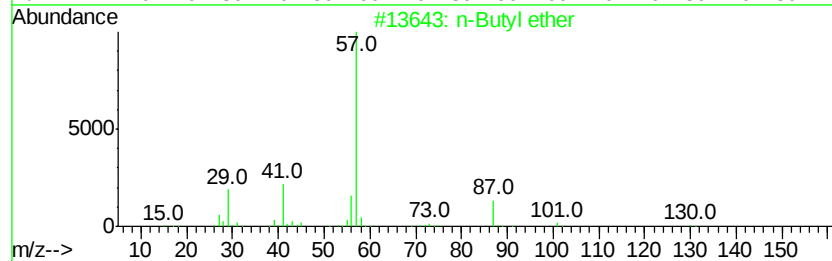
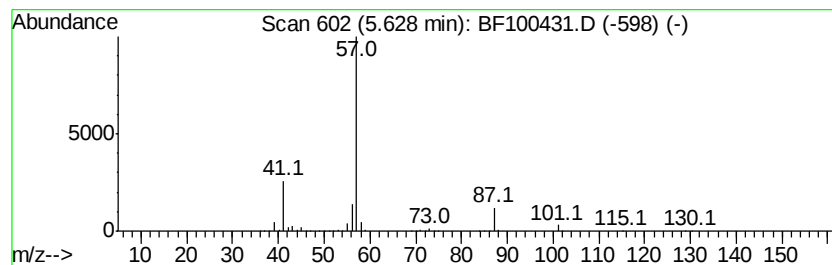
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 3 n-Butyl ether Concentration Rank 3

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 5.63 | 21.67 ng | 1031150 | 1,4-Dichlorobenzene-d4 | 6.90 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | n-Butyl ether                       | 130 | C8H18O   | 000142-96-1 | 83   |
| 2    |    | Sulfurous acid, dibutyl ester       | 194 | C8H18O3S | 000626-85-7 | 59   |
| 3    |    | Propanoic acid, 1-methylpropyl e... | 130 | C7H14O2  | 000591-34-4 | 40   |
| 4    |    | Isobutyl ether                      | 130 | C8H18O   | 000628-55-7 | 38   |
| 5    |    | Mercury di-n-butyl                  | 316 | C8H18Hg  | 000629-35-6 | 38   |



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Sample : I6399-06  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP-12

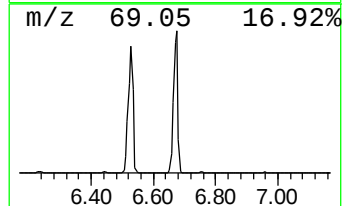
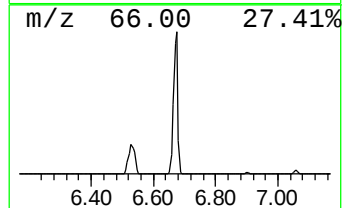
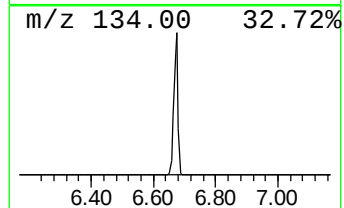
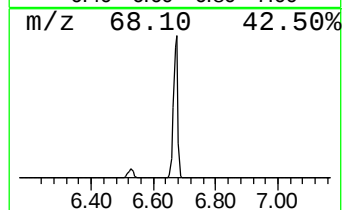
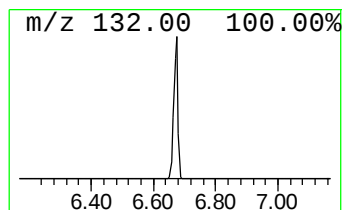
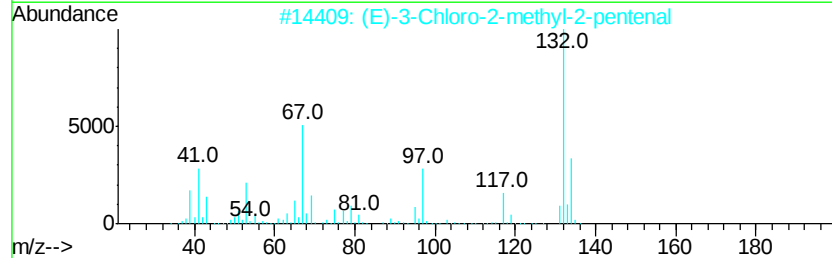
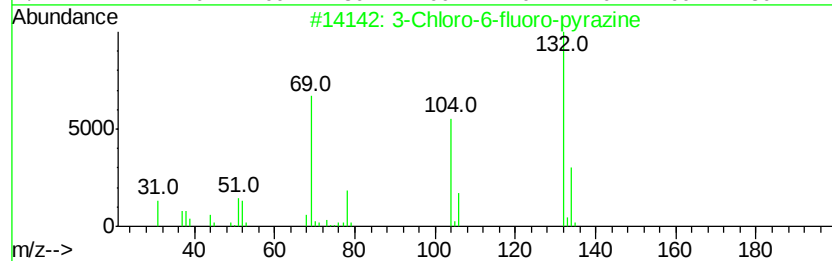
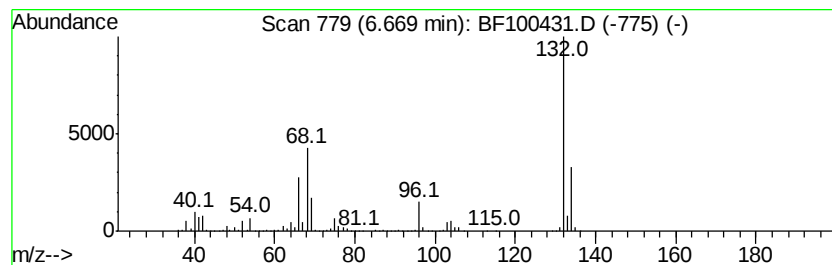
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF110817.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 4 unknown6.67 Concentration Rank 1

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.67 | 66.80 ng | 3178380 | 1,4-Dichlorobenzene-d4 | 6.90 |

| Hit# | of | Tentative ID                     | MW  | MolForm   | CAS#         | Qual |
|------|----|----------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 3-Chloro-6-fluoro-pyrazine       | 132 | C4H2ClFN2 | 1000146-10-7 | 27   |
| 2    |    | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO   | 031357-76-3  | 17   |
| 3    |    | Tranvlcypropine-propionyl        | 189 | C12H15NO  | 1000123-86-3 | 10   |
| 4    |    | Imidazole, 4,5-dicvano-1-methyl- | 132 | C6H4N4    | 019485-35-9  | 9    |
| 5    |    | 1,3,5-Trifluorobenzene           | 132 | C6H3F3    | 000372-38-3  | 9    |



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Sample : I6399-06  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

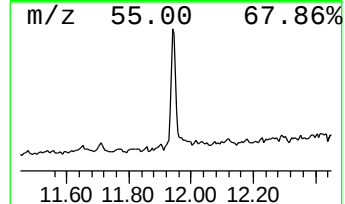
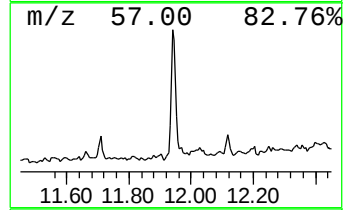
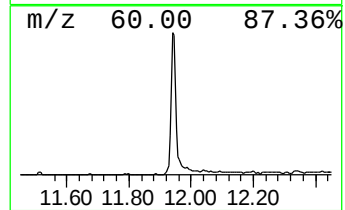
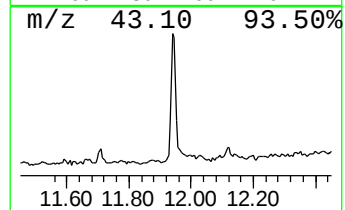
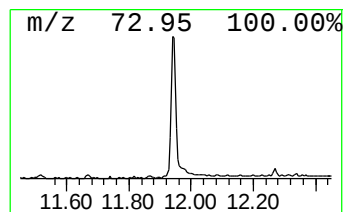
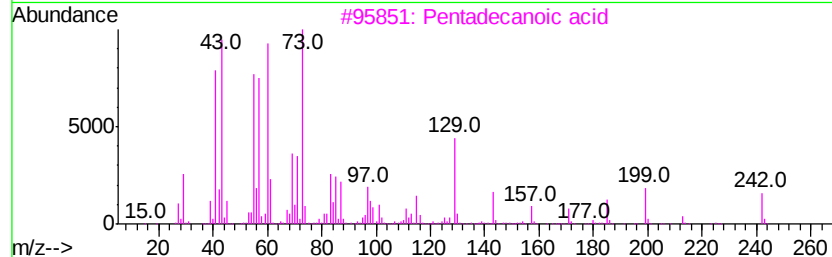
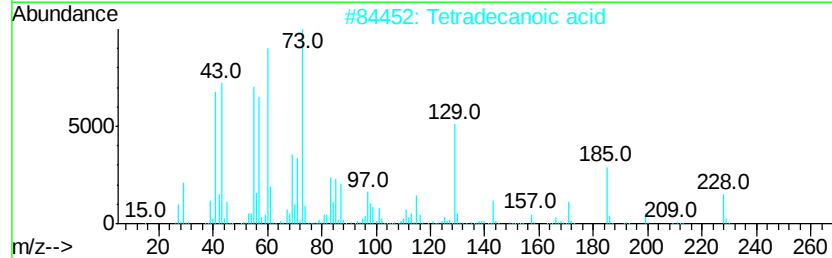
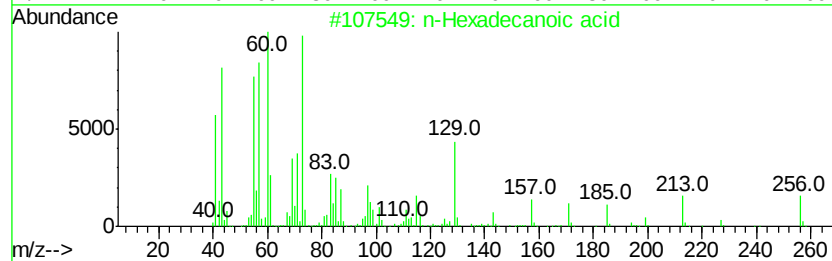
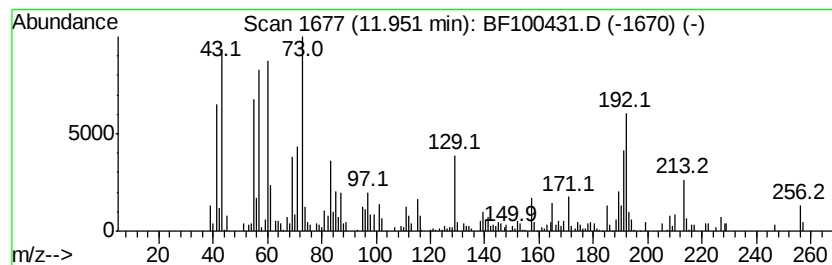
Instrument :  
BNA\_F  
ClientSampleId :  
TP-12

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 6 n-Hexadecanoic acid Concentration Rank 5

| R.T.      | EstConc             | Area   | Relative to ISTD |             | R.T.  |
|-----------|---------------------|--------|------------------|-------------|-------|
| 11.95     | 8.47 ng             | 409257 | Phenanthrene-d10 |             | 11.43 |
| Hit# of 5 | Tentative ID        | MW     | MolForm          | CAS#        | Qual  |
| 1         | n-Hexadecanoic acid | 256    | C16H32O2         | 000057-10-3 | 99    |
| 2         | Tetradecanoic acid  | 228    | C14H28O2         | 000544-63-8 | 94    |
| 3         | Pentadecanoic acid  | 242    | C15H30O2         | 001002-84-2 | 91    |
| 4         | Undecanoic acid     | 186    | C11H22O2         | 000112-37-8 | 81    |
| 5         | Tridecanoic acid    | 214    | C13H26O2         | 000638-53-9 | 80    |



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TP-12

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

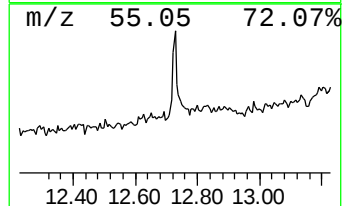
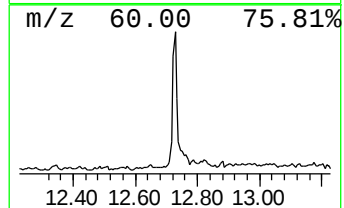
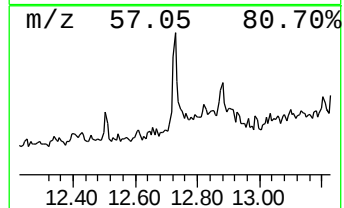
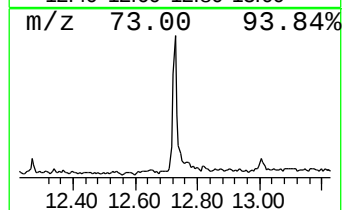
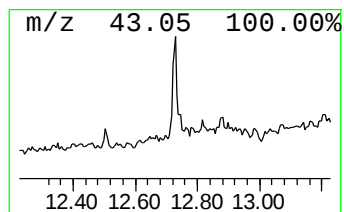
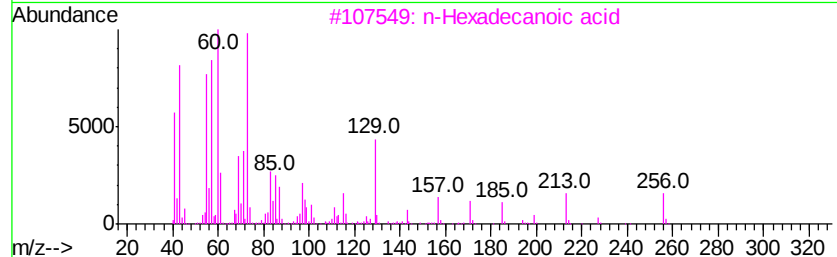
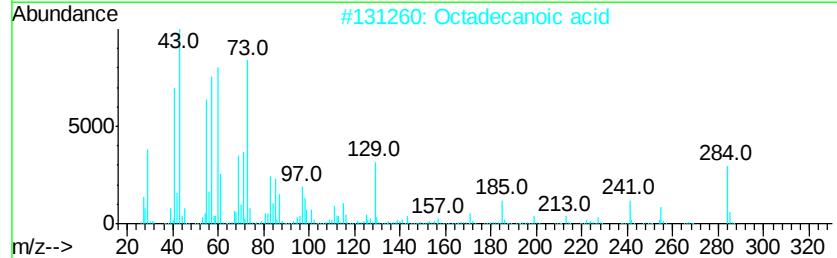
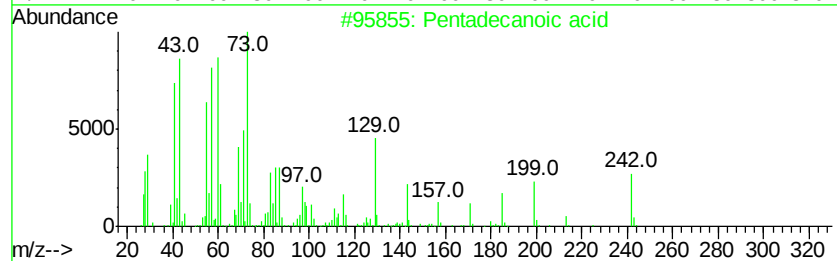
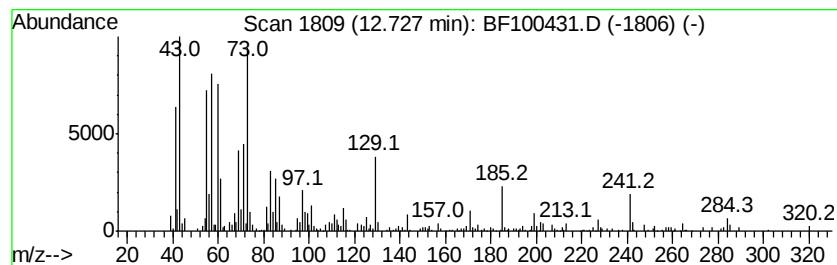
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 Pentadecanoic acid Concentration Rank 7

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 12.73 | 4.10 ng | 197978 | Phenanthrene-d10 | 11.43 |

| Hit# of | 5 | Tentative ID        | MW  | MolForm  | CAS#        | Qual |
|---------|---|---------------------|-----|----------|-------------|------|
| 1       |   | Pentadecanoic acid  | 242 | C15H30O2 | 001002-84-2 | 91   |
| 2       |   | Octadecanoic acid   | 284 | C18H36O2 | 000057-11-4 | 87   |
| 3       |   | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 68   |
| 4       |   | Dodecanoic acid     | 200 | C12H24O2 | 000143-07-7 | 58   |
| 5       |   | Tetradecane         | 198 | C14H30   | 000629-59-4 | 53   |



Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF111117\  
Data File : BF100431.D  
Acq On : 11 Nov 2017 11:00  
Operator : SJ/JU  
Sample : I6399-06  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

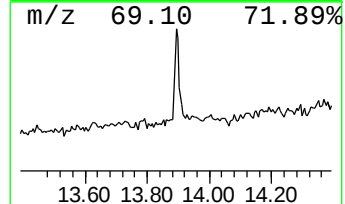
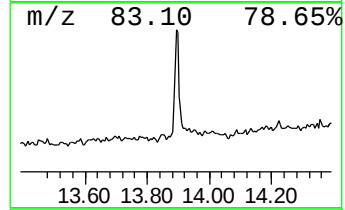
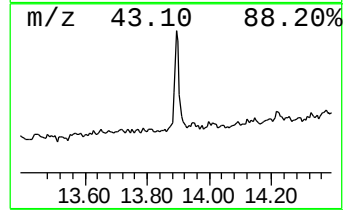
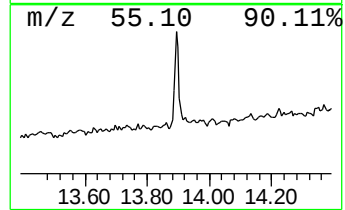
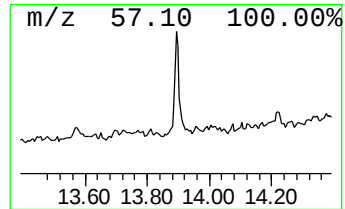
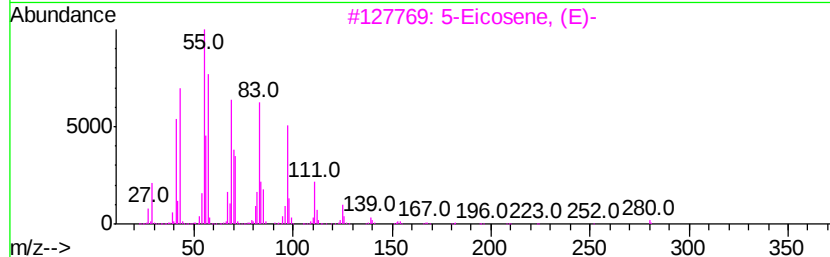
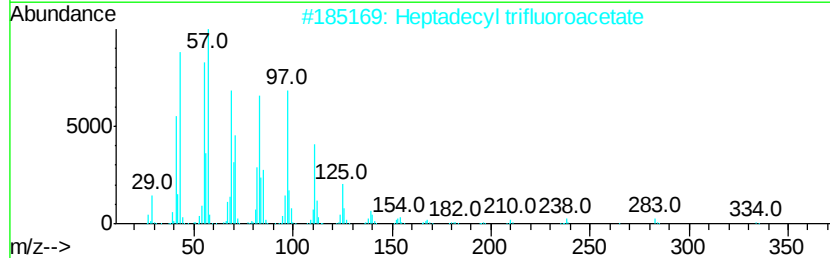
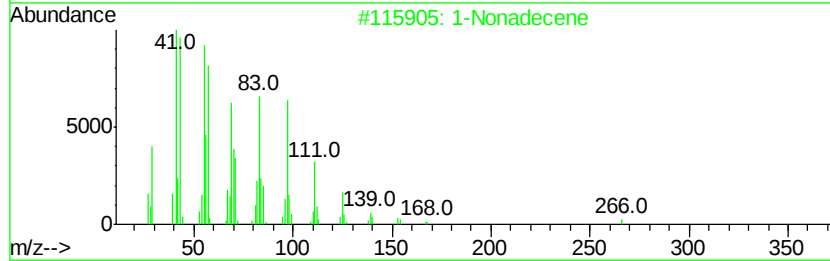
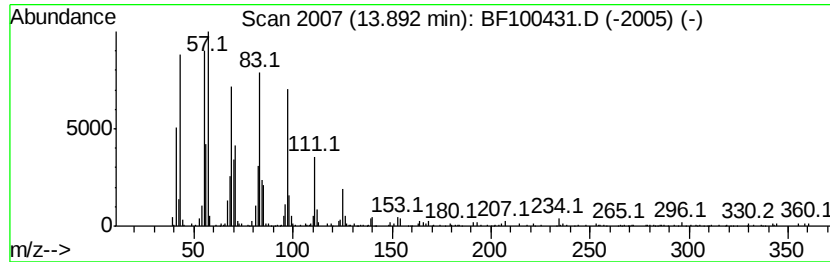
Instrument :  
BNA\_F  
ClientSampleId :  
TP-12

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF110817.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 1-Nonadecene Concentration Rank 6

| R.T.      | EstConc                     | Area   | Relative to ISTD | R.T.         |      |
|-----------|-----------------------------|--------|------------------|--------------|------|
| 13.89     | 6.35 ng                     | 309088 | Chrysene-d12     | 14.06        |      |
| Hit# of 5 | Tentative ID                | MW     | MolForm          | CAS#         | Qual |
| 1         | 1-Nonadecene                | 266    | C19H38           | 018435-45-5  | 96   |
| 2         | Heptadecyl trifluoroacetate | 352    | C19H35F3O2       | 1000351-87-0 | 91   |
| 3         | 5-Eicosene, (E)-            | 280    | C20H40           | 074685-30-6  | 91   |
| 4         | 1-Docosene                  | 308    | C22H44           | 001599-67-3  | 91   |
| 5         | n-Nonadecanol-1             | 284    | C19H40O          | 001454-84-8  | 91   |



Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA\_F\DATA\BF111117\  
Data File : BF100431.D  
Acq On : 11 Nov 2017 11:00  
Operator : SJ/JU  
Sample : I6399-06  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP-12

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF110817.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 |
| 2-Pentanone, 4-hy... | 5.13  | 14.3    | ng    | 681072   | 1                     | 6.90  | 951558 | 20.0 |
| n-Butyl ether        | 5.63  | 21.7    | ng    | 1031150  | 1                     | 6.90  | 951558 | 20.0 |
| unknown6.67          | 6.67  | 66.8    | ng    | 3178380  | 1                     | 6.90  | 951558 | 20.0 |
| n-Hexadecanoic acid  | 11.95 | 8.5     | ng    | 409257   | 4                     | 11.43 | 966882 | 20.0 |
| Pentadecanoic acid   | 12.73 | 4.1     | ng    | 197978   | 4                     | 11.43 | 966882 | 20.0 |
| 1-Nonadecene         | 13.89 | 6.3     | ng    | 309088   | 5                     | 14.06 | 973019 | 20.0 |