

Data Path : Z:\HPCHEM1\BNA F\DATA\BF040717\  
 Data File : BF094269.D  
 Acq On : 7 Apr 2017 13:27  
 Operator : SJ/MA  
 Sample : I2582-04  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 GW-2

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-BF032217.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|--------|----------|------------|----------|-----------|-------|-------------|------------|--------------|------------|
| 1      | 1.951    | 5          | 11       | 16        | rVB   | 49461       | 60346      | 1.33%        | 0.171%     |
| 2      | 3.987    | 353        | 357      | 365       | rBV   | 399453      | 439713     | 9.67%        | 1.249%     |
| 3      | 4.387    | 421        | 425      | 428       | rVB   | 1922696     | 1775063    | 39.05%       | 5.042%     |
| 4      | 5.445    | 600        | 605      | 611       | rVB2  | 1262041     | 1308133    | 28.78%       | 3.716%     |
| 5      | 5.586    | 624        | 629      | 633       | rBV   | 3070521     | 3141449    | 69.10%       | 8.923%     |
| 6      | 5.839    | 668        | 672      | 676       | rBV   | 1011493     | 974127     | 21.43%       | 2.767%     |
| 7      | 6.022    | 698        | 703      | 706       | rBV   | 2949965     | 3018973    | 66.41%       | 8.575%     |
| 8      | 6.051    | 706        | 708      | 711       | rVB   | 474612      | 385728     | 8.49%        | 1.096%     |
| 9      | 6.139    | 717        | 723      | 728       | rBV2  | 70935       | 75841      | 1.67%        | 0.215%     |
| 10     | 6.492    | 776        | 783      | 786       | rBV   | 2076969     | 2482494    | 54.61%       | 7.051%     |
| 11     | 6.957    | 858        | 862      | 868       | rVB2  | 37884       | 50032      | 1.10%        | 0.142%     |
| 12     | 7.033    | 868        | 875      | 883       | rBV3  | 72696       | 123982     | 2.73%        | 0.352%     |
| 13     | 7.157    | 892        | 896      | 900       | rVB   | 88039       | 89421      | 1.97%        | 0.254%     |
| 14     | 7.345    | 920        | 928      | 930       | rBV   | 1261697     | 1385515    | 30.48%       | 3.935%     |
| 15     | 7.369    | 930        | 932      | 935       | rVV   | 497597      | 455665     | 10.02%       | 1.294%     |
| 16     | 8.063    | 1044       | 1050     | 1054      | rVB3  | 47161       | 51231      | 1.13%        | 0.146%     |
| 17     | 8.210    | 1069       | 1075     | 1079      | rBV   | 210586      | 225006     | 4.95%        | 0.639%     |
| 18     | 8.327    | 1090       | 1095     | 1101      | rVB   | 174887      | 193186     | 4.25%        | 0.549%     |
| 19     | 8.669    | 1146       | 1153     | 1157      | rBV   | 3708728     | 4545951    | 100.00%      | 12.912%    |
| 20     | 8.786    | 1167       | 1173     | 1175      | rBV   | 44264       | 45537      | 1.00%        | 0.129%     |
| 21     | 9.069    | 1216       | 1221     | 1224      | rBV2  | 40565       | 52077      | 1.15%        | 0.148%     |
| 22     | 9.163    | 1231       | 1237     | 1241      | rBV   | 284239      | 281529     | 6.19%        | 0.800%     |
| 23     | 9.486    | 1284       | 1292     | 1295      | rBV2  | 1297962     | 1542415    | 33.93%       | 4.381%     |
| 24     | 9.521    | 1295       | 1298     | 1302      | rVB   | 552739      | 507086     | 11.15%       | 1.440%     |
| 25     | 9.733    | 1329       | 1334     | 1340      | rBV   | 146003      | 156147     | 3.43%        | 0.444%     |
| 26     | 9.798    | 1340       | 1345     | 1350      | rVB6  | 30071       | 46709      | 1.03%        | 0.133%     |
| 27     | 9.963    | 1364       | 1373     | 1376      | rVB   | 209506      | 214628     | 4.72%        | 0.610%     |
| 28     | 10.080   | 1388       | 1393     | 1397      | rVB   | 135073      | 134134     | 2.95%        | 0.381%     |
| 29     | 10.157   | 1402       | 1406     | 1410      | rVB   | 207074      | 200121     | 4.40%        | 0.568%     |
| 30     | 10.357   | 1432       | 1440     | 1447      | rVB3  | 53168       | 101822     | 2.24%        | 0.289%     |
| 31     | 10.457   | 1447       | 1457     | 1461      | rBV   | 2003022     | 2445344    | 53.79%       | 6.946%     |
| 32     | 10.604   | 1479       | 1482     | 1486      | rBV3  | 46976       | 55549      | 1.22%        | 0.158%     |
| 33     | 10.663   | 1488       | 1492     | 1494      | rBV   | 172662      | 177633     | 3.91%        | 0.505%     |
| 34     | 10.768   | 1507       | 1510     | 1516      | rVB   | 37024       | 48363      | 1.06%        | 0.137%     |

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GW-2

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-BF032217.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |        |         |
|----|--------|------|------|------|------|---------|---------|--------|---------|
| 35 | 11.221 | 1583 | 1587 | 1590 | rVV  | 139447  | 138010  | 3.04%  | 0.392%  |
| 36 | 11.310 | 1596 | 1602 | 1604 | rVV  | 1348896 | 1434187 | 31.55% | 4.074%  |
| 37 | 11.333 | 1604 | 1606 | 1610 | rVV  | 271240  | 230573  | 5.07%  | 0.655%  |
| 38 | 11.598 | 1648 | 1651 | 1654 | rBV  | 45357   | 47809   | 1.05%  | 0.136%  |
| 39 | 11.745 | 1673 | 1676 | 1681 | rVB  | 116312  | 115116  | 2.53%  | 0.327%  |
| 40 | 12.063 | 1727 | 1730 | 1737 | rVB2 | 45479   | 57414   | 1.26%  | 0.163%  |
| 41 | 12.798 | 1849 | 1855 | 1858 | rBV  | 120711  | 124472  | 2.74%  | 0.354%  |
| 42 | 13.068 | 1897 | 1901 | 1905 | rVB  | 92788   | 96371   | 2.12%  | 0.274%  |
| 43 | 13.292 | 1931 | 1939 | 1942 | rBV  | 3156578 | 3633428 | 79.93% | 10.320% |
| 44 | 14.451 | 2132 | 2136 | 2144 | rBV2 | 236851  | 315715  | 6.94%  | 0.897%  |
| 45 | 14.556 | 2149 | 2154 | 2158 | rBV  | 1202854 | 1284281 | 28.25% | 3.648%  |
| 46 | 16.186 | 2426 | 2431 | 2438 | rVB  | 787774  | 886543  | 19.50% | 2.518%  |
| 47 | 16.309 | 2448 | 2452 | 2457 | rBV3 | 38785   | 51931   | 1.14%  | 0.148%  |

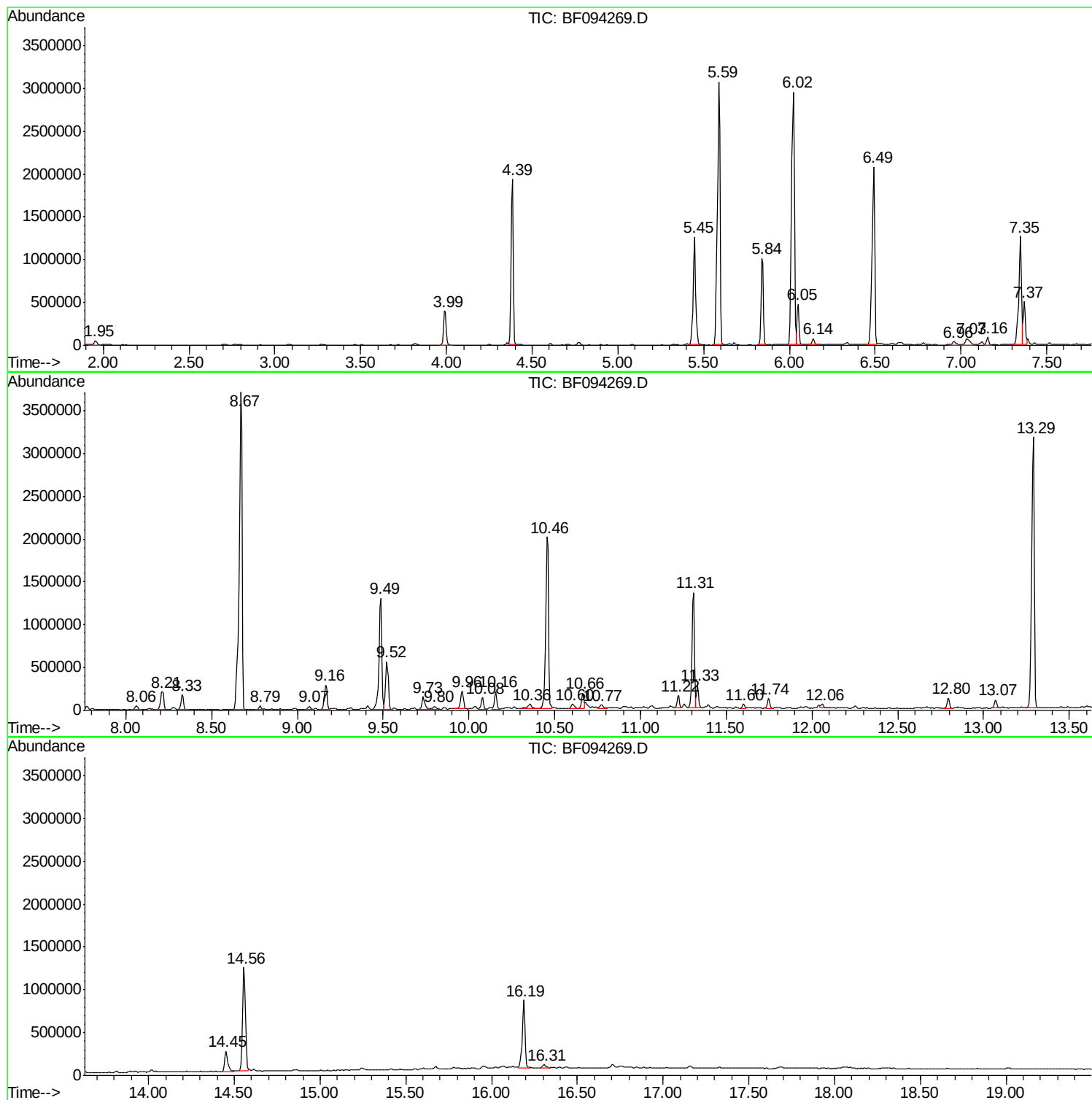
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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032217.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P



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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032217.M  
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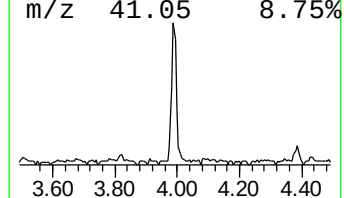
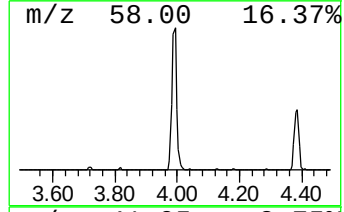
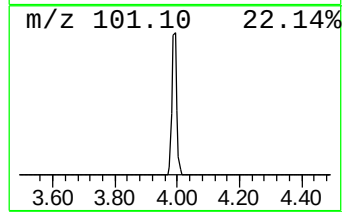
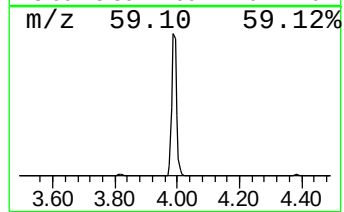
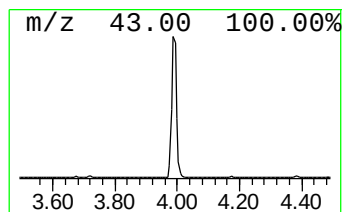
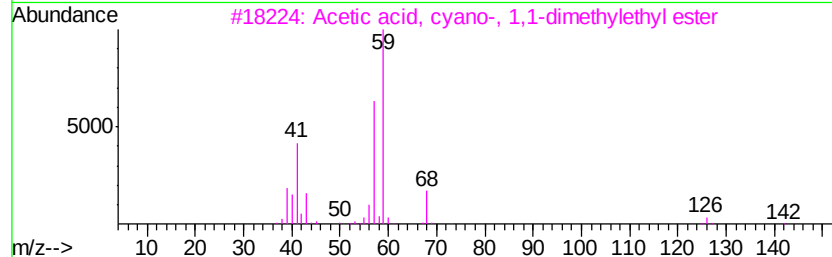
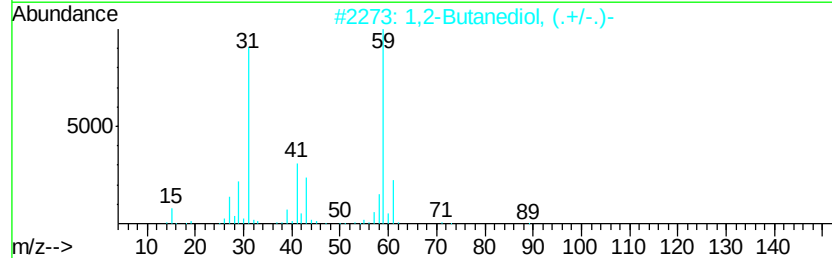
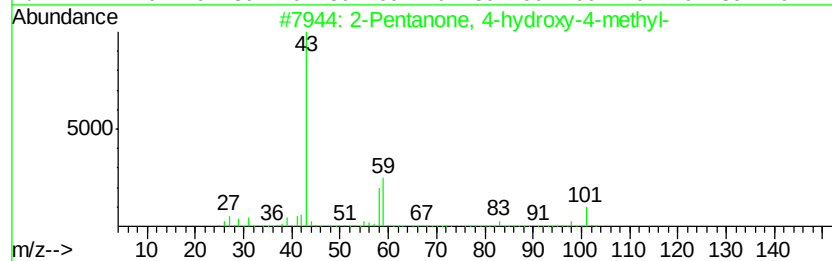
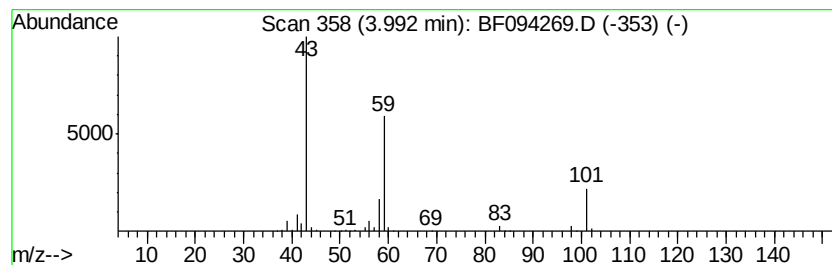
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 3

| R.T. | EstConc | Area   | Relative to ISTD       | R.T. |
|------|---------|--------|------------------------|------|
| 3.99 | 9.03 ng | 439713 | 1,4-Dichlorobenzene-d4 | 5.85 |

| Hit# | of | 5 | Tentative ID                         | MW  | MolForm  | CAS#        | Qual |
|------|----|---|--------------------------------------|-----|----------|-------------|------|
| 1    |    |   | 2-Pentanone, 4-hydroxy-4-methyl-     | 116 | C6H12O2  | 000123-42-2 | 50   |
| 2    |    |   | 1,2-Butanediol, (.+/-.)-             | 90  | C4H10O2  | 026171-83-5 | 25   |
| 3    |    |   | Acetic acid, cyano-, 1,1-dimethyl... | 141 | C7H11NO2 | 001116-98-9 | 17   |
| 4    |    |   | 2,3-Butanedione, monooxime           | 101 | C4H7NO2  | 000057-71-6 | 9    |
| 5    |    |   | 3-Hexanol, 4-methyl-                 | 116 | C7H16O   | 000615-29-2 | 9    |



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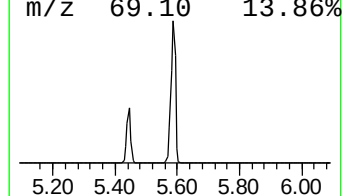
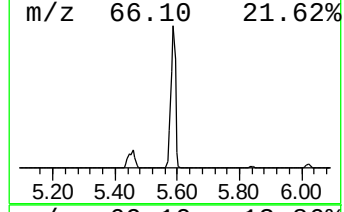
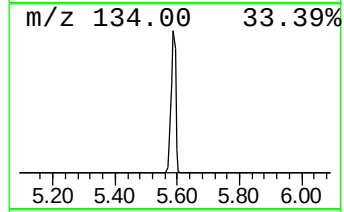
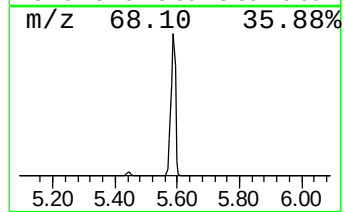
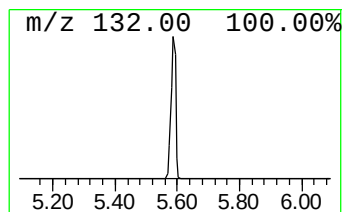
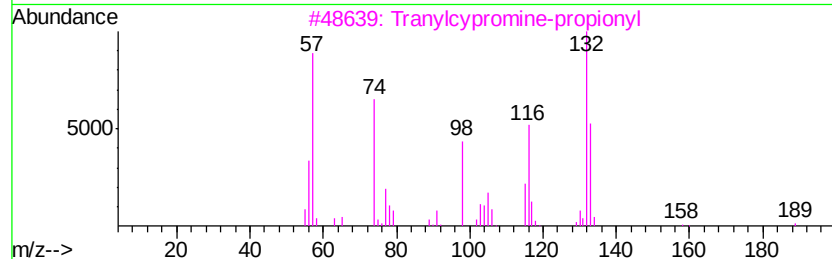
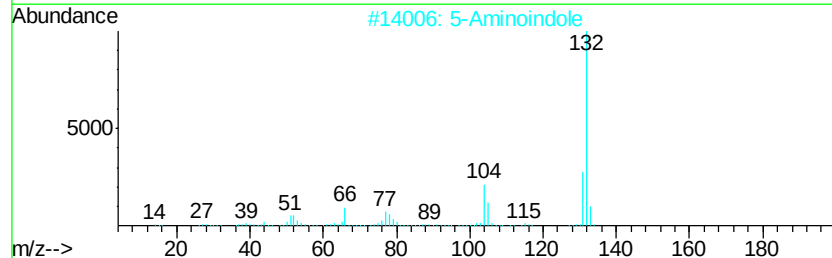
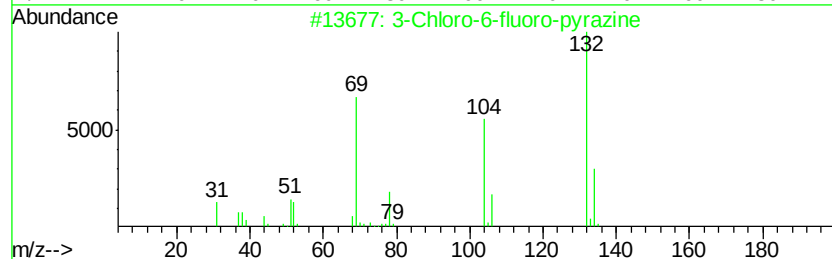
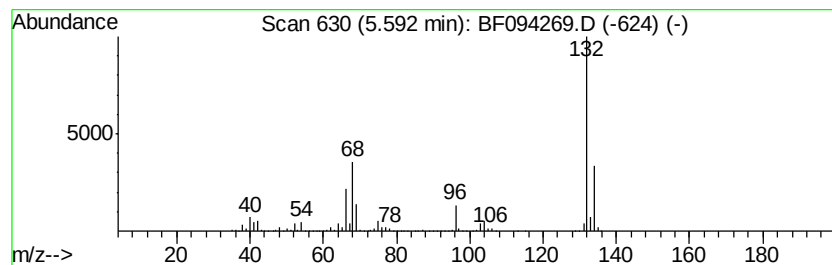
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032217.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 2 unknown5.59 Concentration Rank 1

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 5.59 | 64.50 ng | 3141450 | 1,4-Dichlorobenzene-d4 | 5.85 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|-----------|--------------|------|
| 1    |    |   | 3-Chloro-6-fluoro-pyrazine          | 132 | C4H2ClFN2 | 1000146-10-7 | 27   |
| 2    |    |   | 5-Aminoindole                       | 132 | C8H8N2    | 005192-03-0  | 12   |
| 3    |    |   | Tranvlcyproline-propionyl           | 189 | C12H15NO  | 1000123-86-3 | 10   |
| 4    |    |   | 2H-Cyclopenta[d]pyridazine, 2-me... | 132 | C8H8N2    | 022291-85-6  | 9    |
| 5    |    |   | 1-Methylpyrrolo[1,2-a]pyrazine      | 132 | C8H8N2    | 064608-59-9  | 9    |



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BNA\_F  
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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF032217.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

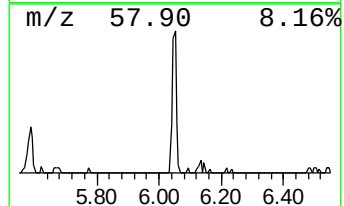
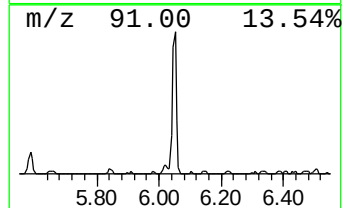
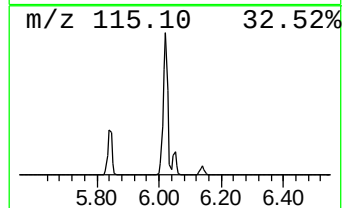
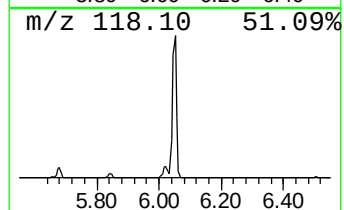
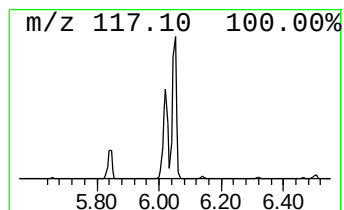
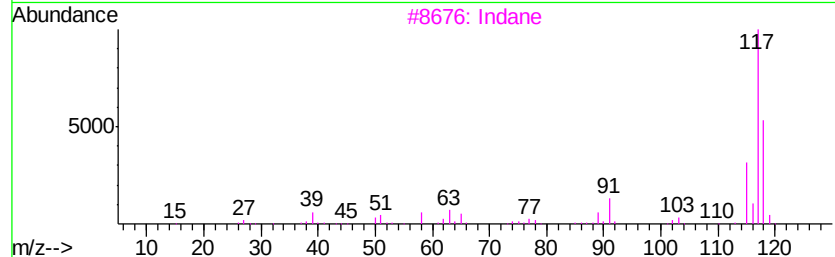
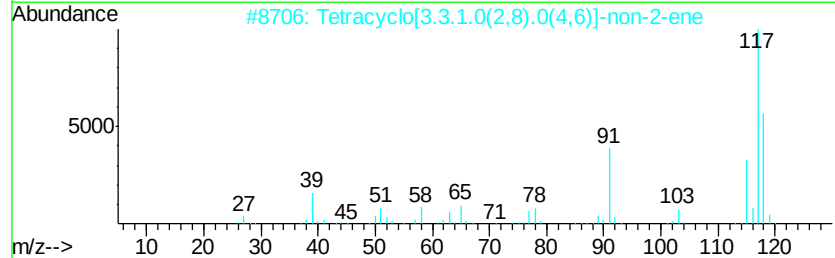
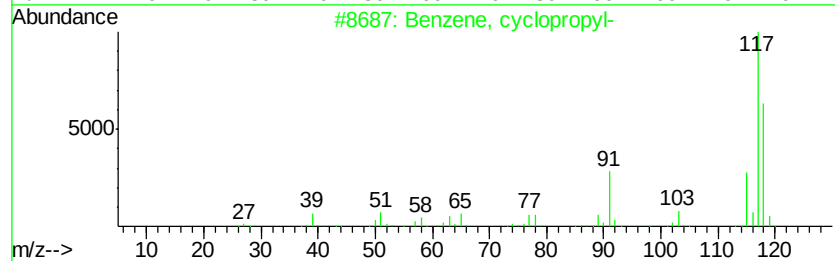
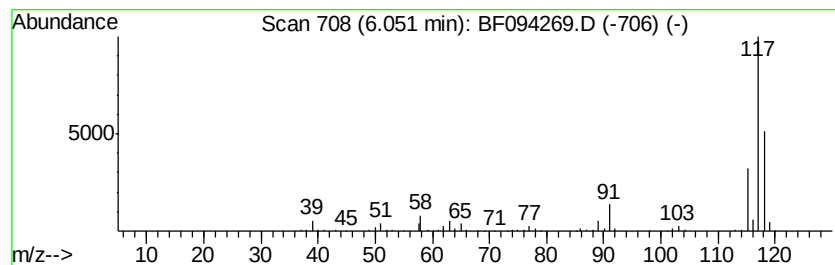
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 4 Benzene, cyclopropyl- Concentration Rank 4

| R.T. | EstConc | Area   | Relative to ISTD       | R.T. |
|------|---------|--------|------------------------|------|
| 6.05 | 7.92 ng | 385728 | 1,4-Dichlorobenzene-d4 | 5.85 |

| Hit# | of | Tentative ID                     | MW  | MolForm | CAS#         | Qual |
|------|----|----------------------------------|-----|---------|--------------|------|
| 1    | 5  | Benzene, cyclopropyl-            | 118 | C9H10   | 000873-49-4  | 87   |
| 2    |    | Tetracyclo[3.3.1.0(2,8).0(4,6)]- | 118 | C9H10   | 1000191-13-7 | 83   |
| 3    |    | Indane                           | 118 | C9H10   | 000496-11-7  | 80   |
| 4    |    | Deltacyclene                     | 118 | C9H10   | 007785-10-6  | 53   |
| 5    |    | cis-.beta.-Methylstyrene         | 118 | C9H10   | 000766-90-5  | 53   |



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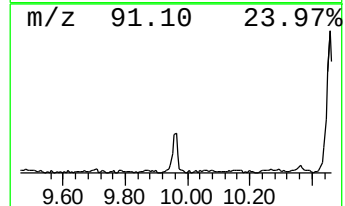
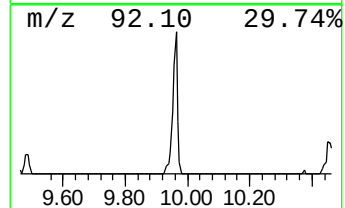
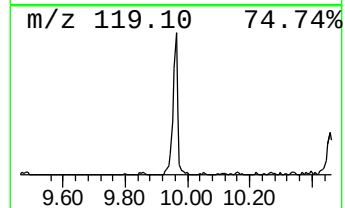
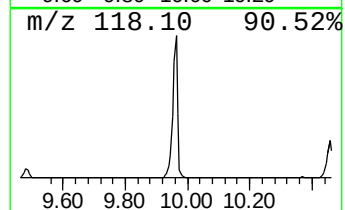
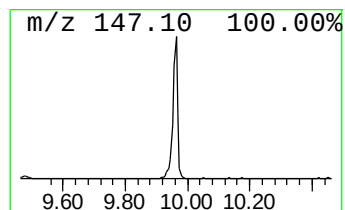
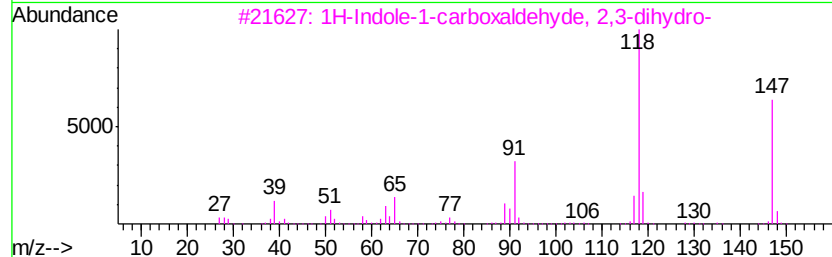
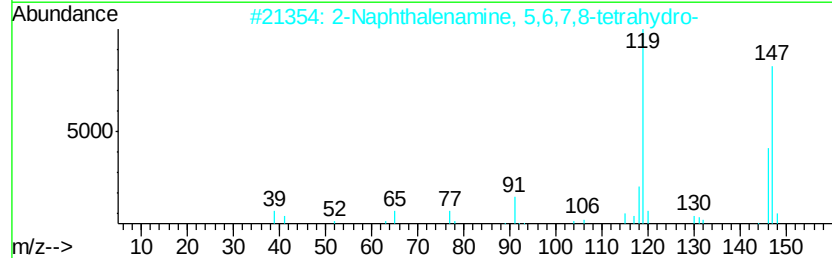
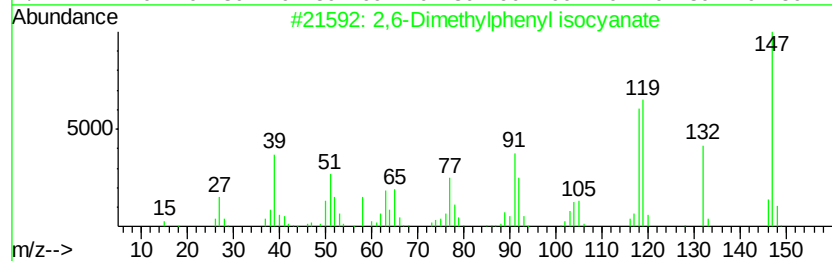
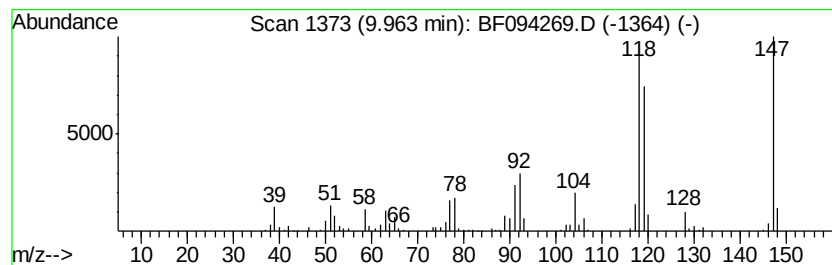
Instrument :  
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ClientSampleId :  
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 6 2,6-Dimethylphenyl isocyanate Concentration Rank 7

| R.T.      | EstConc                             | Area   | Relative to ISTD | R.T.        |      |
|-----------|-------------------------------------|--------|------------------|-------------|------|
| 9.96      | 2.78 ng                             | 214628 | Acenaphthene-d10 | 9.49        |      |
| Hit# of 5 | Tentative ID                        | MW     | MolForm          | CAS#        | Qual |
| 1         | 2,6-Dimethylphenyl isocyanate       | 147    | C9H9NO           | 028556-81-2 | 91   |
| 2         | 2-Naphthalenamine, 5,6,7,8-tetra... | 147    | C10H13N          | 002217-43-8 | 76   |
| 3         | 1H-Indole-1-carboxaldehyde, 2,3-... | 147    | C9H9NO           | 002861-59-8 | 60   |
| 4         | 2H-Indol-2-one, 1,3-dihydro-1-me... | 147    | C9H9NO           | 000061-70-1 | 53   |
| 5         | 1H-Indole, 2,3-dihydro-             | 119    | C8H9N            | 000496-15-1 | 50   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF040717\  
Data File : BF094269.D  
Acq On : 7 Apr 2017 13:27  
Operator : SJ/MA  
Sample : I2582-04  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
GW-2

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF032217.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

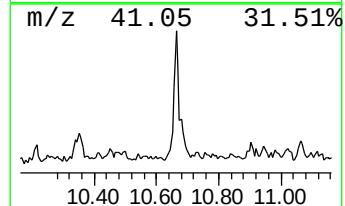
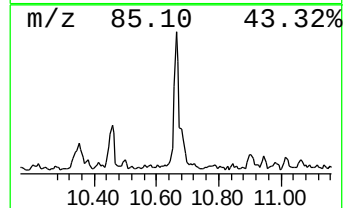
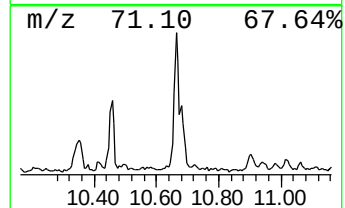
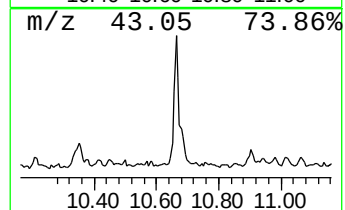
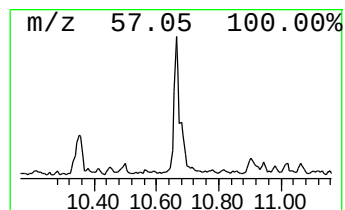
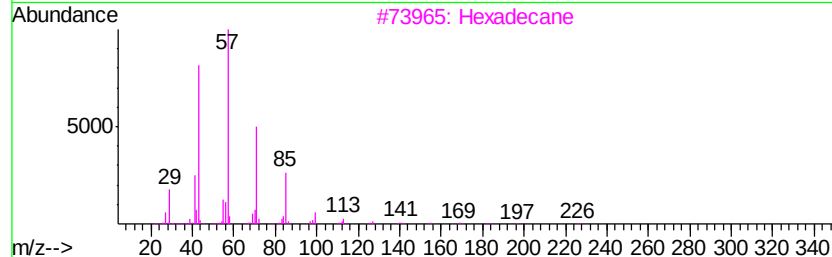
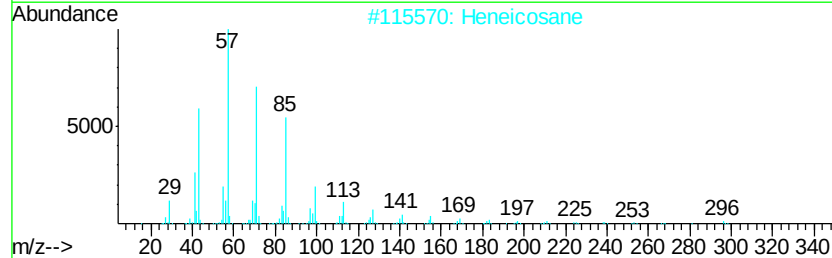
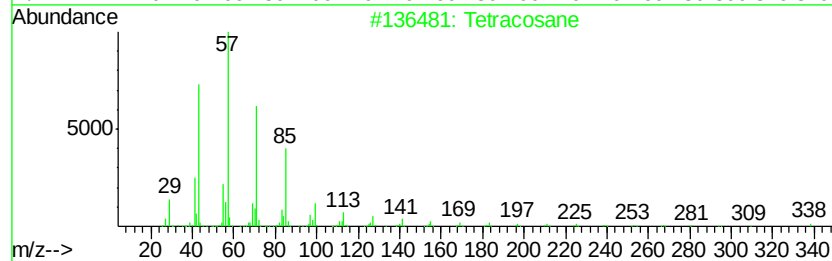
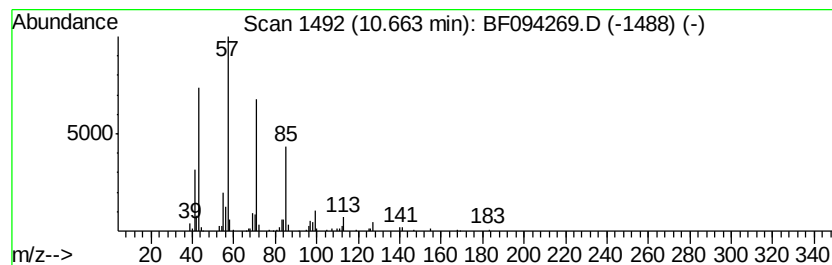
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 Tetracosane Concentration Rank 8

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 10.66 | 2.48 ng | 177633 | Phenanthrene-d10 | 11.31 |

| Hit# of | 5 | Tentative ID      | MW  | MolForm | CAS#        | Qual |
|---------|---|-------------------|-----|---------|-------------|------|
| 1       |   | Tetracosane       | 338 | C24H50  | 000646-31-1 | 91   |
| 2       |   | Heneicosane       | 296 | C21H44  | 000629-94-7 | 90   |
| 3       |   | Hexadecane        | 226 | C16H34  | 000544-76-3 | 90   |
| 4       |   | Heptacosane       | 380 | C27H56  | 000593-49-7 | 90   |
| 5       |   | Dodecane, 1-iodo- | 296 | C12H25I | 004292-19-7 | 86   |





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Acq On : 7 Apr 2017 13:27  
Operator : SJ/MA  
Sample : I2582-04  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

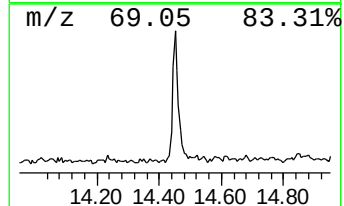
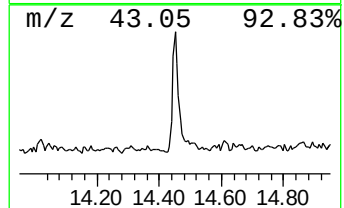
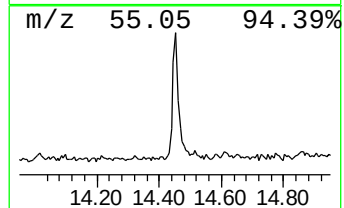
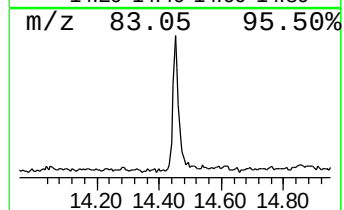
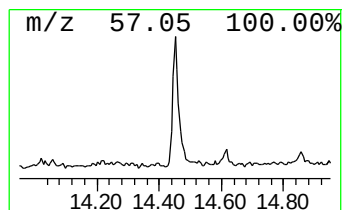
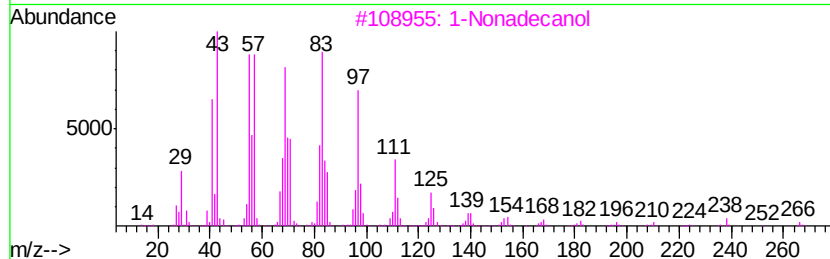
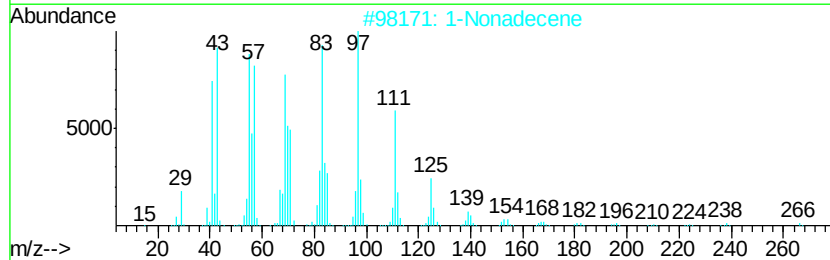
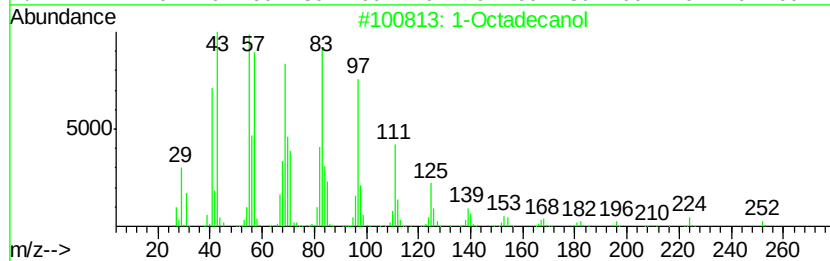
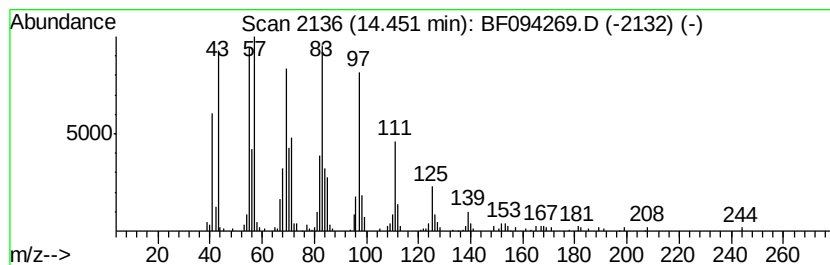
Instrument :  
BNA\_F  
ClientSampled :  
GW-2

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF032217.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 8 1-Octadecanol Concentration Rank 5

| R.T.      | EstConc                           | Area   | Relative to ISTD |             | R.T.  |
|-----------|-----------------------------------|--------|------------------|-------------|-------|
| 14.45     | 4.92 ng                           | 315715 | Chrysene-d12     |             | 14.56 |
| Hit# of 5 | Tentative ID                      | MW     | MolForm          | CAS#        | Qual  |
| 1         | 1-Octadecanol                     | 270    | C18H38O          | 000112-92-5 | 95    |
| 2         | 1-Nonadecene                      | 266    | C19H38           | 018435-45-5 | 94    |
| 3         | 1-Nonadecanol                     | 284    | C19H40O          | 001454-84-8 | 93    |
| 4         | 3-Eicosene, (E)-                  | 280    | C20H40           | 074685-33-9 | 91    |
| 5         | Bromoacetic acid, hexadecyl ester | 362    | C18H35BrO2       | 005454-48-8 | 91    |



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Sample : I2582-04  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
GW-2

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF032217.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
|                      |       |         |       |          | #                     | RT    | Resp    | Conc |
| 2-Pentanone, 4-hy... | 3.99  | 9.0     | ng    | 439713   | 1                     | 5.85  | 974127  | 20.0 |
| unknown5.59          | 5.59  | 64.5    | ng    | 3141450  | 1                     | 5.85  | 974127  | 20.0 |
| Benzene, cyclopro... | 6.05  | 7.9     | ng    | 385728   | 1                     | 5.85  | 974127  | 20.0 |
| 2,6-Dimethylpheny... | 9.96  | 2.8     | ng    | 214628   | 3                     | 9.49  | 1542420 | 20.0 |
| Tetracosane          | 10.66 | 2.5     | ng    | 177633   | 4                     | 11.31 | 1434190 | 20.0 |
| 1-Octadecanol        | 14.45 | 4.9     | ng    | 315715   | 5                     | 14.56 | 1284280 | 20.0 |