

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF092818\  
 Data File : BF109447.D  
 Acq On : 28 Sep 2018 22:56  
 Operator : JU/SJ  
 Sample : J5148-01  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 WS-1

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\_F\METHODS\8270-BF092218.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         | 4.898       | 475           | 478         | 484          | rBV      | 22540          | 28013         | 1.25%           | 0.157%        |
| 2         | 5.316       | 545           | 549         | 561          | rVB      | 999032         | 997559        | 44.42%          | 5.581%        |
| 3         | 6.345       | 720           | 724         | 734          | rVB2     | 746448         | 744773        | 33.16%          | 4.167%        |
| 4         | 6.481       | 742           | 747         | 750          | rBV      | 2080264        | 1801753       | 80.22%          | 10.081%       |
| 5         | 6.710       | 782           | 786         | 789          | rBV      | 734954         | 607757        | 27.06%          | 3.400%        |
| 6         | 6.781       | 794           | 798         | 806          | rBV      | 21209          | 27832         | 1.24%           | 0.156%        |
| 7         | 6.869       | 808           | 813         | 816          | rBV      | 1980799        | 1771936       | 78.90%          | 9.914%        |
| 8         | 7.116       | 851           | 855         | 862          | rVB2     | 29729          | 30575         | 1.36%           | 0.171%        |
| 9         | 7.269       | 875           | 881         | 884          | rBV2     | 1415921        | 1591771       | 70.87%          | 8.906%        |
| 10        | 7.386       | 895           | 901         | 905          | rBV      | 38666          | 45167         | 2.01%           | 0.253%        |
| 11        | 7.528       | 921           | 925         | 931          | rVB      | 70388          | 71426         | 3.18%           | 0.400%        |
| 12        | 7.992       | 1000          | 1004        | 1007         | rBV      | 773438         | 676944        | 30.14%          | 3.787%        |
| 13        | 8.945       | 1164          | 1166        | 1171         | rVB2     | 31532          | 35705         | 1.59%           | 0.200%        |
| 14        | 9.069       | 1182          | 1187        | 1190         | rBV      | 2534023        | 2245908       | 100.00%         | 12.566%       |
| 15        | 9.157       | 1197          | 1202        | 1205         | rBV3     | 29316          | 27835         | 1.24%           | 0.156%        |
| 16        | 9.192       | 1205          | 1208        | 1210         | rBV      | 29542          | 24320         | 1.08%           | 0.136%        |
| 17        | 9.328       | 1227          | 1231        | 1238         | rBV      | 77767          | 80700         | 3.59%           | 0.452%        |
| 18        | 9.457       | 1250          | 1253        | 1258         | rBV      | 271331         | 208471        | 9.28%           | 1.166%        |
| 19        | 9.510       | 1258          | 1262        | 1269         | rVB2     | 160838         | 187226        | 8.34%           | 1.048%        |
| 20        | 9.610       | 1276          | 1279        | 1284         | rBV      | 153202         | 124600        | 5.55%           | 0.697%        |
| 21        | 9.686       | 1289          | 1292        | 1294         | rVV      | 38805          | 33056         | 1.47%           | 0.185%        |
| 22        | 9.739       | 1297          | 1301        | 1309         | rVB      | 790092         | 687943        | 30.63%          | 3.849%        |
| 23        | 9.810       | 1309          | 1313        | 1316         | rBV      | 57716          | 51531         | 2.29%           | 0.288%        |
| 24        | 10.075      | 1355          | 1358        | 1363         | rVB2     | 87143          | 87632         | 3.90%           | 0.490%        |
| 25        | 10.157      | 1369          | 1372        | 1374         | rBV2     | 30301          | 30516         | 1.36%           | 0.171%        |
| 26        | 10.180      | 1374          | 1376        | 1379         | rVB      | 44659          | 34947         | 1.56%           | 0.196%        |
| 27        | 10.527      | 1431          | 1435        | 1439         | rBV      | 1202546        | 1170708       | 52.13%          | 6.550%        |
| 28        | 10.651      | 1454          | 1456        | 1462         | rVB2     | 58887          | 69150         | 3.08%           | 0.387%        |
| 29        | 10.863      | 1487          | 1492        | 1496         | rBV6     | 28633          | 53440         | 2.38%           | 0.299%        |
| 30        | 11.098      | 1528          | 1532        | 1536         | rBV4     | 54216          | 90178         | 4.02%           | 0.505%        |
| 31        | 11.133      | 1536          | 1538        | 1543         | rVB2     | 35065          | 37892         | 1.69%           | 0.212%        |
| 32        | 11.216      | 1549          | 1552        | 1555         | rBV      | 718451         | 620943        | 27.65%          | 3.474%        |
| 33        | 11.416      | 1581          | 1586        | 1592         | rBV5     | 39719          | 78704         | 3.50%           | 0.440%        |
| 34        | 11.522      | 1602          | 1604        | 1607         | rVB      | 29608          | 25935         | 1.15%           | 0.145%        |

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Sample : J5148-01  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
WS-1

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:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF092218.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |        |         |
|----|--------|------|------|------|------|---------|---------|--------|---------|
| 35 | 11.757 | 1641 | 1644 | 1647 | rBV  | 169293  | 167618  | 7.46%  | 0.938%  |
| 36 | 11.933 | 1671 | 1674 | 1676 | rBV  | 33842   | 27386   | 1.22%  | 0.153%  |
| 37 | 12.210 | 1719 | 1721 | 1726 | rBV  | 27289   | 31922   | 1.42%  | 0.179%  |
| 38 | 12.280 | 1729 | 1733 | 1736 | rBV  | 127357  | 165337  | 7.36%  | 0.925%  |
| 39 | 12.321 | 1738 | 1740 | 1743 | rVB2 | 78183   | 71054   | 3.16%  | 0.398%  |
| 40 | 12.421 | 1755 | 1757 | 1761 | rVB2 | 45880   | 42954   | 1.91%  | 0.240%  |
| 41 | 12.686 | 1800 | 1802 | 1805 | rBV  | 81663   | 78693   | 3.50%  | 0.440%  |
| 42 | 12.745 | 1810 | 1812 | 1814 | rBV  | 47595   | 44884   | 2.00%  | 0.251%  |
| 43 | 12.798 | 1817 | 1821 | 1825 | rBV  | 1918127 | 1825432 | 81.28% | 10.213% |
| 44 | 13.845 | 1995 | 1999 | 2002 | rBV2 | 623012  | 564636  | 25.14% | 3.159%  |
| 45 | 14.480 | 2105 | 2107 | 2110 | rBV  | 125936  | 103193  | 4.59%  | 0.577%  |
| 46 | 15.251 | 2234 | 2238 | 2242 | rBV  | 306932  | 347375  | 15.47% | 1.944%  |

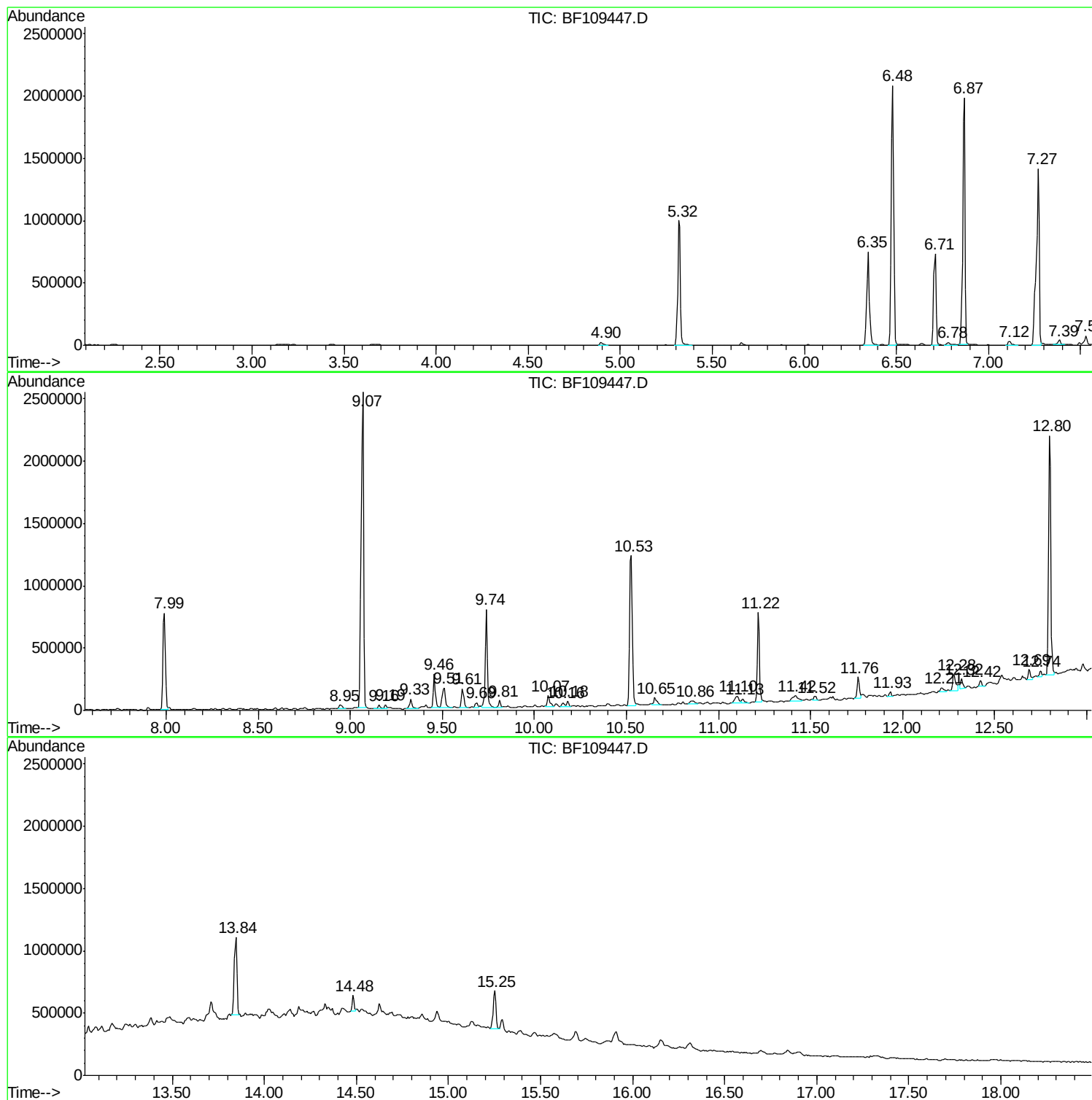
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF092218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



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WS-1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF092218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

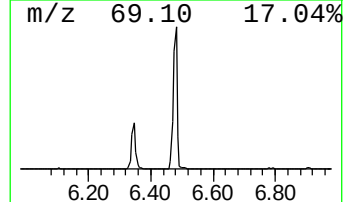
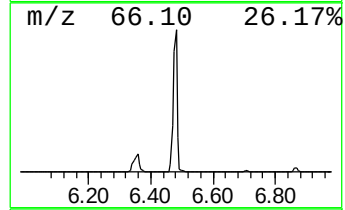
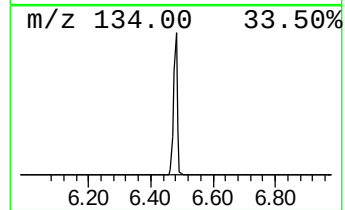
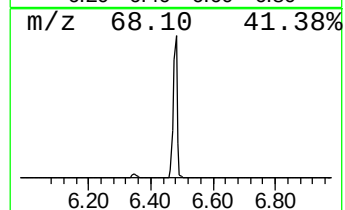
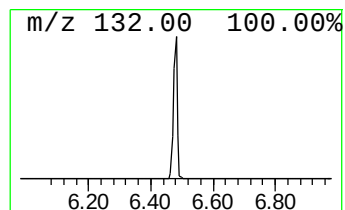
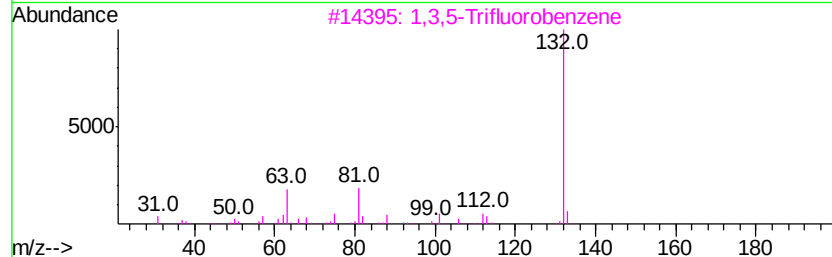
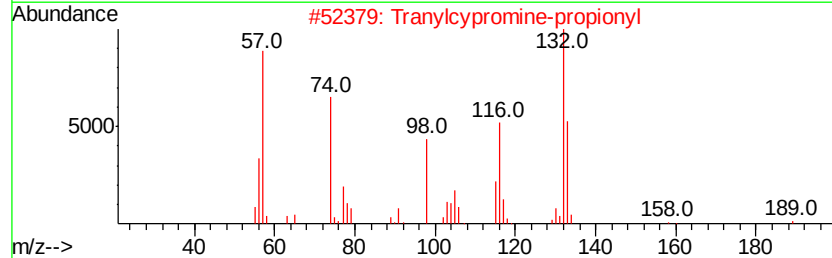
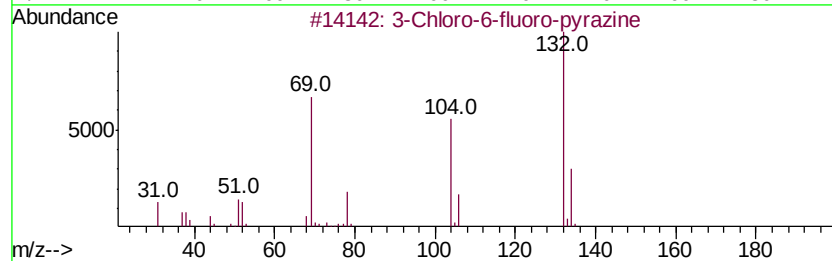
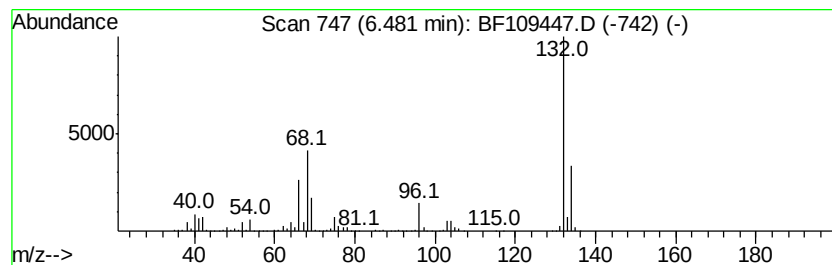
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 unknown6.48 Concentration Rank 1

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.48 | 59.29 ng | 1801750 | 1,4-Dichlorobenzene-d4 | 6.71 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 3-Chloro-6-fluoro-pyrazine          | 132 | C4H2ClFN2 | 1000146-10-7 | 27   |
| 2    |    | Tranylcypromine-propionyl           | 189 | C12H15NO  | 1000123-86-3 | 10   |
| 3    |    | 1,3,5-Trifluorobenzene              | 132 | C6H3F3    | 000372-38-3  | 9    |
| 4    |    | Bicyclo[4.2.0]octa-1,3,5-triene,... | 132 | C10H12    | 028749-81-7  | 9    |
| 5    |    | (E)-3-Chloro-2-methyl-2-pentenal    | 132 | C6H9ClO   | 031357-76-3  | 9    |



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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF092218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

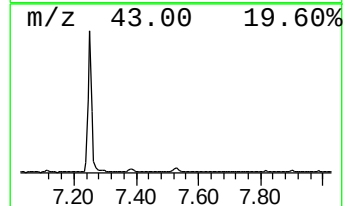
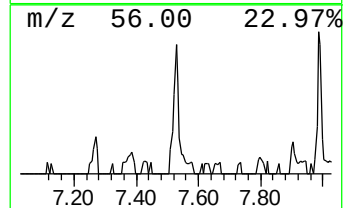
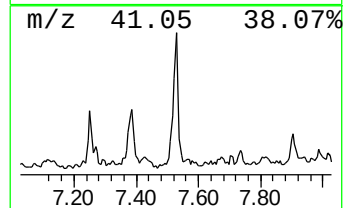
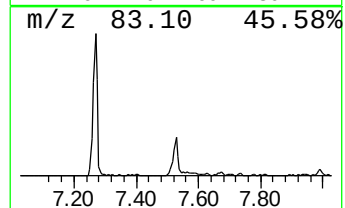
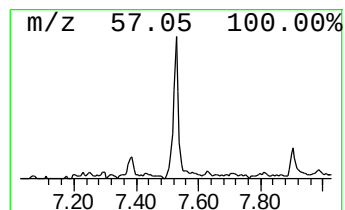
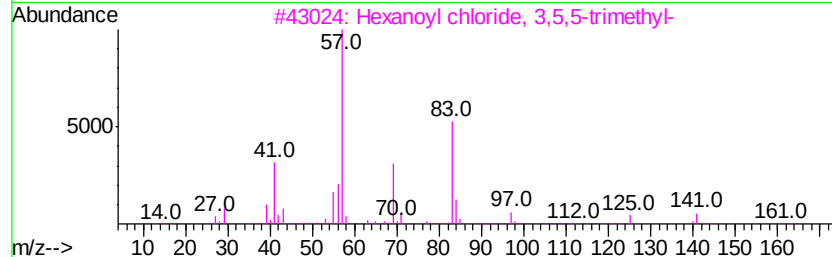
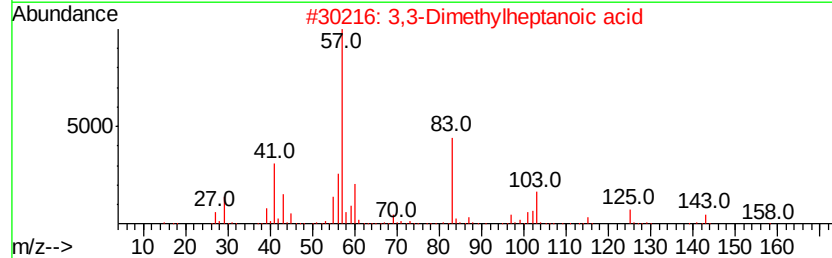
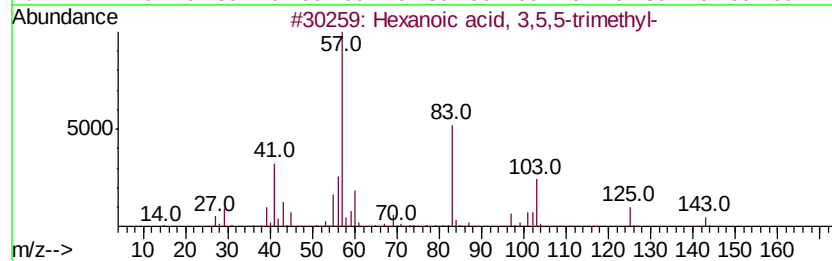
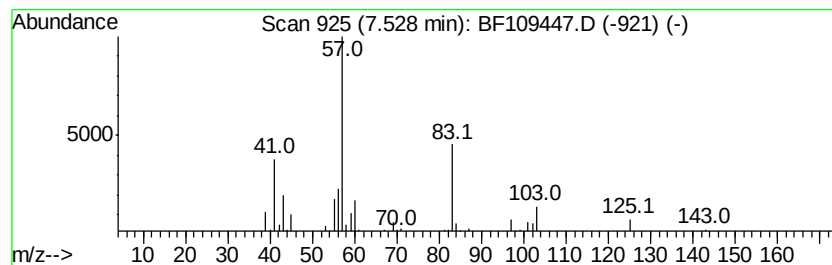
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 3 Hexanoic acid, 3,5,5-trimet... Concentration Rank 15

| R.T. | EstConc | Area  | Relative to ISTD | R.T. |
|------|---------|-------|------------------|------|
| 7.53 | 2.11 ng | 71426 | Naphthalene-d8   | 7.99 |

| Hit# | of | Tentative ID                        | MW  | MolForm     | CAS#         | Qual |
|------|----|-------------------------------------|-----|-------------|--------------|------|
| 1    | 5  | Hexanoic acid, 3,5,5-trimethyl-     | 158 | C9H18O2     | 003302-10-1  | 90   |
| 2    |    | 3,3-Dimethylheptanoic acid          | 158 | C9H18O2     | 067061-30-7  | 90   |
| 3    |    | Hexanoyl chloride, 3,5,5-trimethyl- | 176 | C9H17ClO    | 036727-29-4  | 42   |
| 4    |    | Propanoic acid, 2,2-dimethyl-, h... | 200 | C12H24O2    | 017660-61-6  | 35   |
| 5    |    | 4,4-Dimethyl-2-pentanol, chlorod... | 228 | C9H15ClF2O2 | 1000376-27-0 | 32   |



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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF092218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

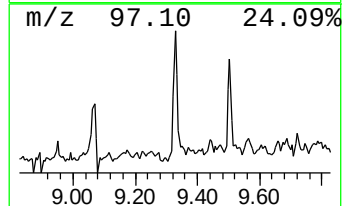
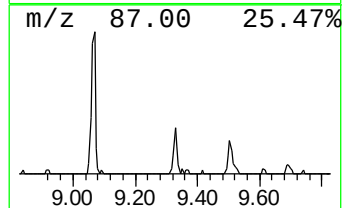
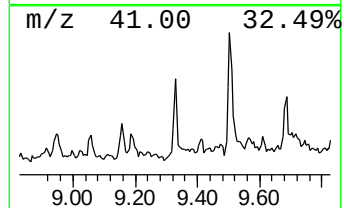
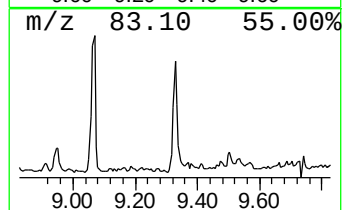
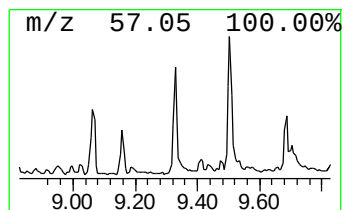
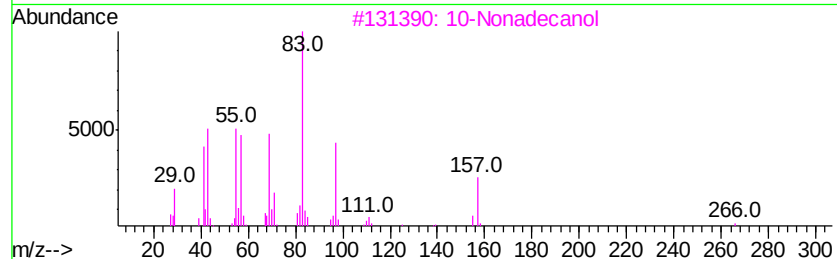
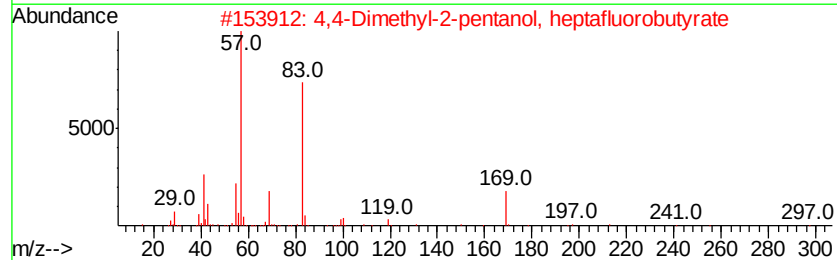
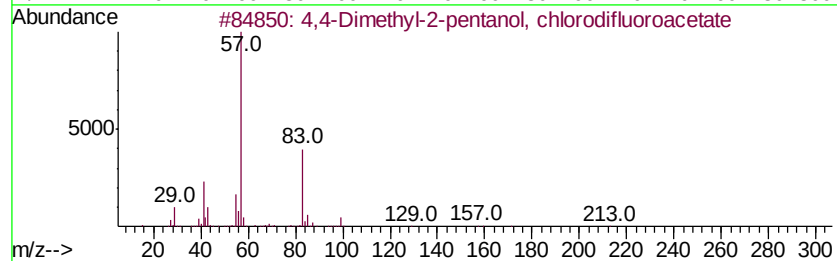
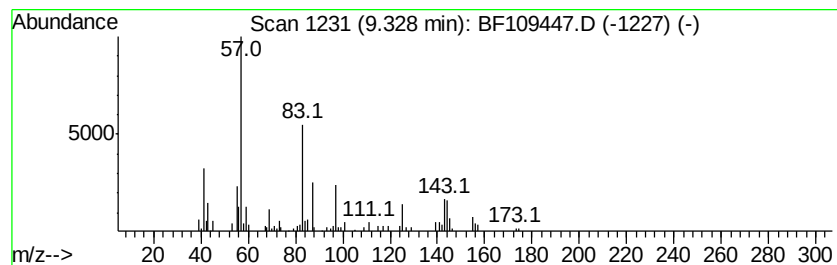
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 unknown9.33 Concentration Rank 12

| R.T. | EstConc | Area  | Relative to ISTD | R.T. |
|------|---------|-------|------------------|------|
| 9.33 | 2.35 ng | 80700 | Acenaphthene-d10 | 9.74 |

| Hit# | of                                  | 5   | Tentative ID | MW           | MolForm | CAS# | Qual |
|------|-------------------------------------|-----|--------------|--------------|---------|------|------|
| 1    | 4,4-Dimethyl-2-pentanol, chlorod... | 228 | C9H15ClF2O2  | 1000376-27-0 | 27      |      |      |
| 2    | 4,4-Dimethyl-2-pentanol, heptafl... | 312 | C11H15F7O2   | 1000364-14-5 | 27      |      |      |
| 3    | 10-Nonadecanol                      | 284 | C19H40O      | 016840-84-9  | 25      |      |      |
| 4    | But-2-enoic acid, amide, 3-methy... | 139 | C8H13NO      | 1000340-08-9 | 14      |      |      |
| 5    | n-Butyl tiglate                     | 156 | C9H16O2      | 007785-66-2  | 14      |      |      |



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ALS Vial : 20 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF092218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

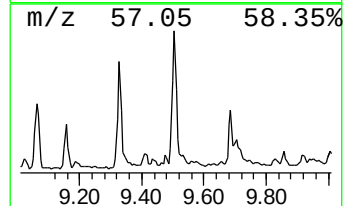
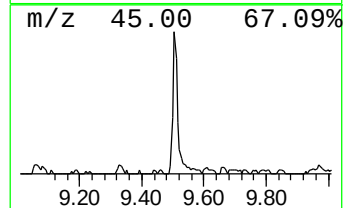
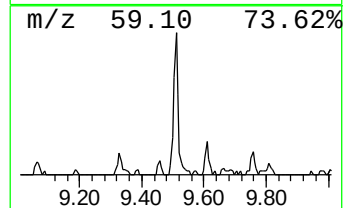
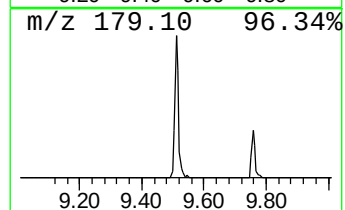
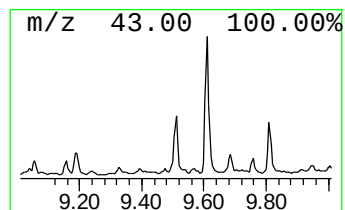
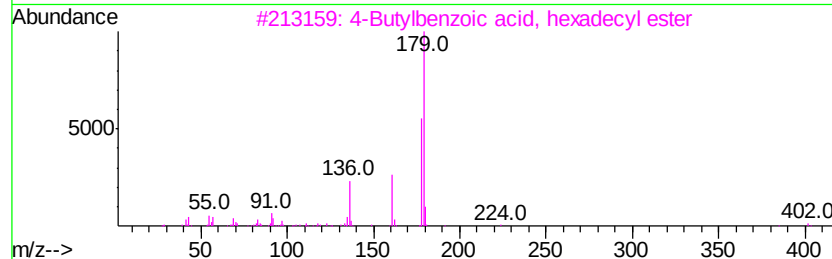
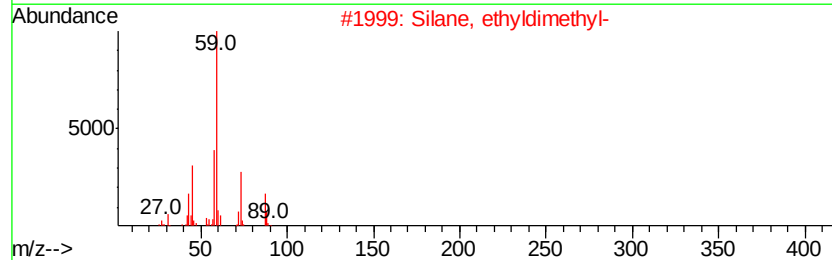
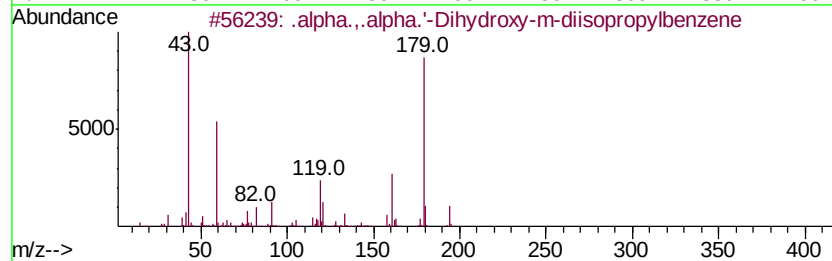
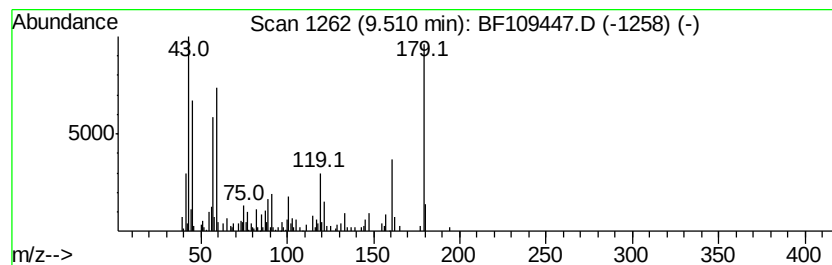
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 .alpha.,.alpha.'-Dihydroxy-... Concentration Rank 3

| R.T. | EstConc | Area   | Relative to ISTD | R.T. |
|------|---------|--------|------------------|------|
| 9.51 | 5.44 ng | 187226 | Acenaphthene-d10 | 9.74 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|-------------------------------------|-----|----------|--------------|------|
| 1    | 5  | .alpha.,.alpha.'-Dihydroxy-m-dii... | 194 | C12H18O2 | 001999-85-5  | 72   |
| 2    |    | Silane, ethyldimethyl-              | 88  | C4H12Si  | 000758-21-4  | 27   |
| 3    |    | 4-Butylbenzoic acid, hexadecyl e... | 402 | C27H46O2 | 1000292-32-9 | 27   |
| 4    |    | Butanoic acid, 4-methoxy-, methy... | 132 | C6H12O3  | 029006-01-7  | 25   |
| 5    |    | .alpha.,.alpha.,.alpha.',.alpha.... | 194 | C12H18O2 | 002948-46-1  | 22   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092818\  
Data File : BF109447.D  
Acq On : 28 Sep 2018 22:56  
Operator : JU/SJ  
Sample : J5148-01  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
WS-1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF092218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

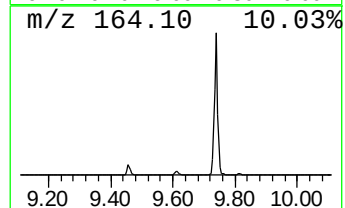
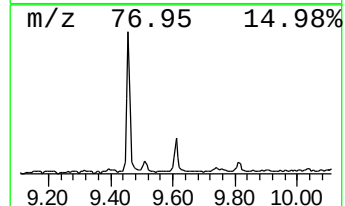
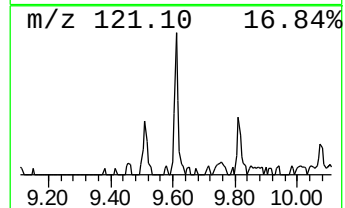
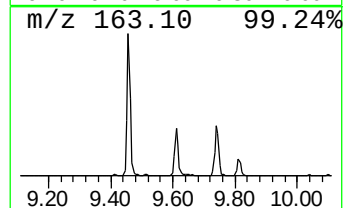
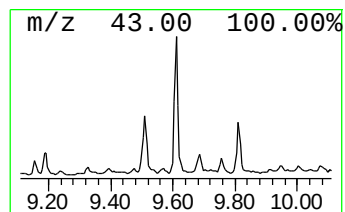
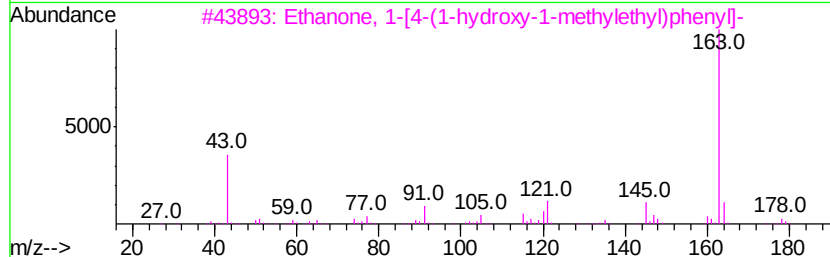
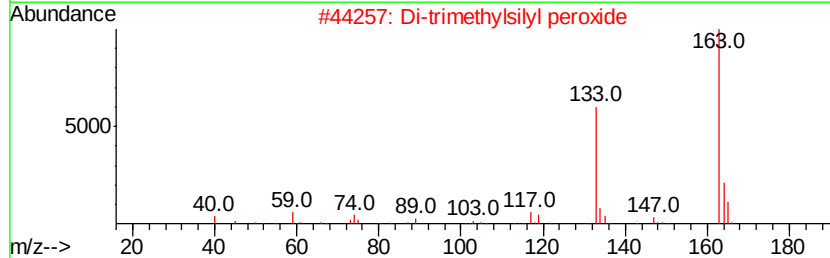
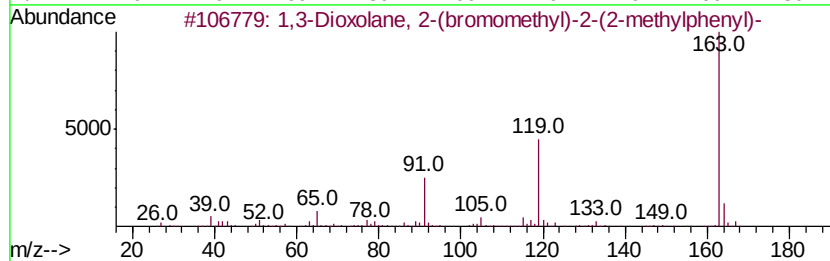
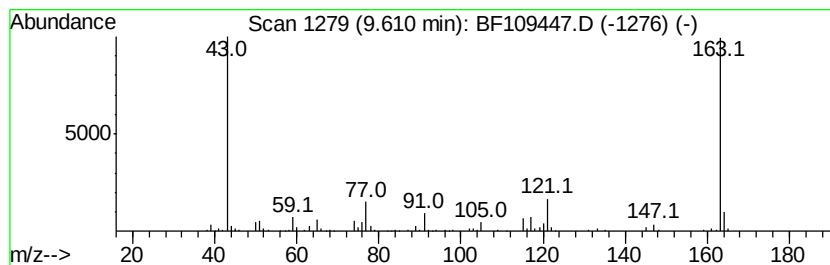
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TIC Integration Parameters: LSCINT.P

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Peak Number 6 unknown9.61 Concentration Rank 7

| R.T. | EstConc | Area   | Relative to ISTD | R.T. |
|------|---------|--------|------------------|------|
| 9.61 | 3.62 ng | 124600 | Acenaphthene-d10 | 9.74 |

| Hit# | of | Tentative ID                        | MW  | MolForm    | CAS#        | Qual |
|------|----|-------------------------------------|-----|------------|-------------|------|
| 1    | 5  | 1,3-Dioxolane, 2-(bromomethyl)-2... | 256 | C11H13BrO2 | 024169-43-5 | 38   |
| 2    |    | Di-trimethylsilyl peroxide          | 178 | C6H18O2Si2 | 005796-98-5 | 37   |
| 3    |    | Ethanone, 1-[4-(1-hydroxy-1-meth... | 178 | C11H14O2   | 054549-72-3 | 33   |
| 4    |    | p-Amidinobenzamide                  | 163 | C8H9N3O    | 054050-86-1 | 33   |
| 5    |    | Silane, triethoxypropyl-            | 206 | C9H22O3Si  | 002550-02-9 | 33   |





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092818\  
Data File : BF109447.D  
Acq On : 28 Sep 2018 22:56  
Operator : JU/SJ  
Sample : J5148-01  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
WS-1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF092218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

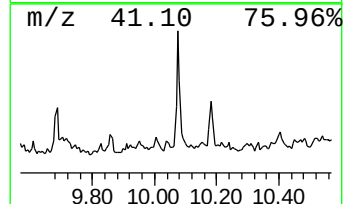
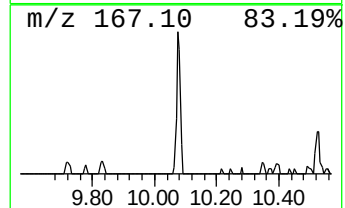
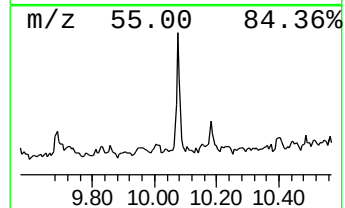
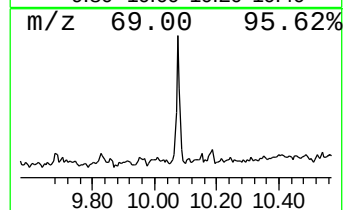
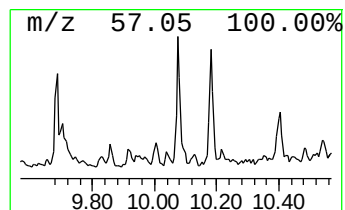
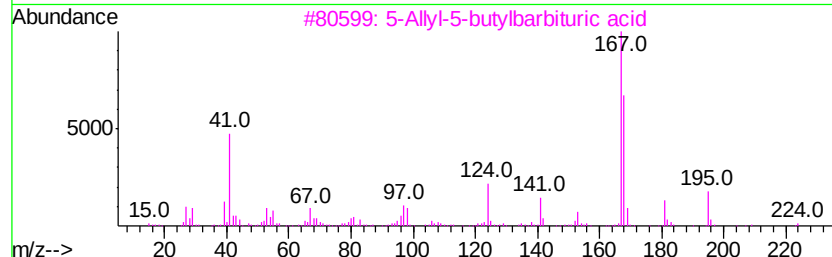
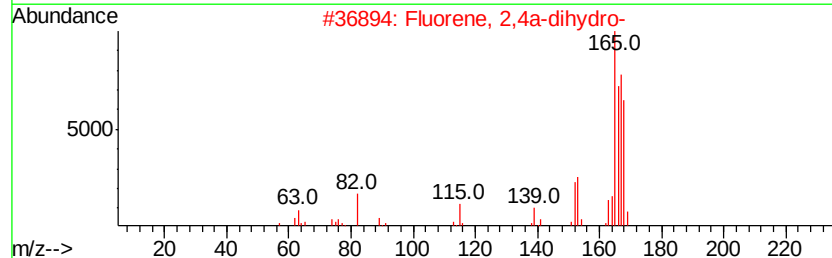
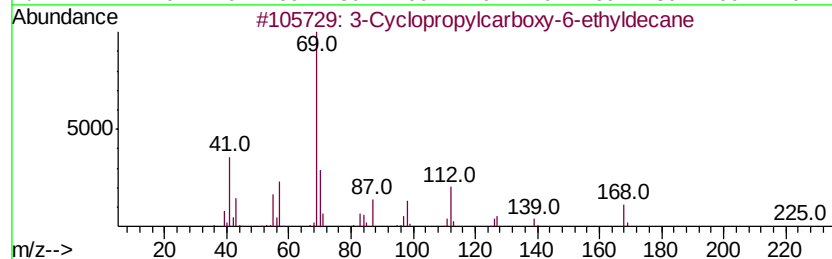
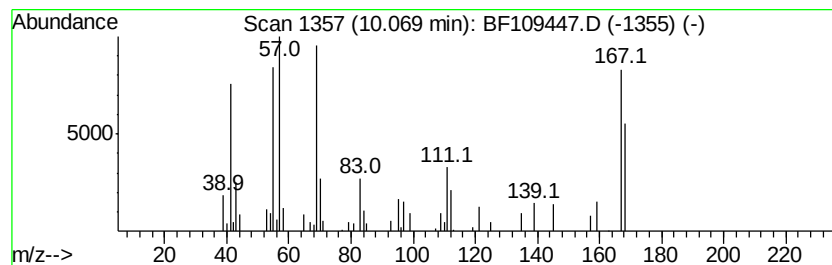
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TIC Integration Parameters: LSCINT.P

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Peak Number 7 unknown10.07 Concentration Rank 10

| R.T.  | EstConc | Area  | Relative to ISTD | R.T. |
|-------|---------|-------|------------------|------|
| 10.07 | 2.55 ng | 87632 | Acenaphthene-d10 | 9.74 |

| Hit# of | 5 | Tentative ID                       | MW  | MolForm    | CAS#         | Qual |
|---------|---|------------------------------------|-----|------------|--------------|------|
| 1       |   | 3-Cyclopropylcarboxy-6-ethyldecane | 254 | C16H30O2   | 1000245-65-6 | 35   |
| 2       |   | Fluorene, 2,4a-dihydro-            | 168 | C13H12     | 059247-36-8  | 35   |
| 3       |   | 5-Allyl-5-butylbarbituric acid     | 224 | C11H16N2O3 | 003146-66-5  | 35   |
| 4       |   | Cyclohexanone, 3-methyl-           | 112 | C7H12O     | 000591-24-2  | 30   |
| 5       |   | Cyclohexane, 1-ethyl-2,3-dimethyl- | 140 | C10H20     | 007058-05-1  | 27   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092818\  
Data File : BF109447.D  
Acq On : 28 Sep 2018 22:56  
Operator : JU/SJ  
Sample : J5148-01  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

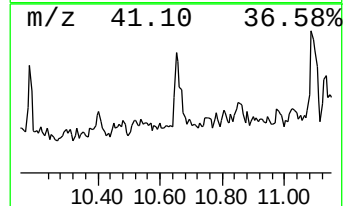
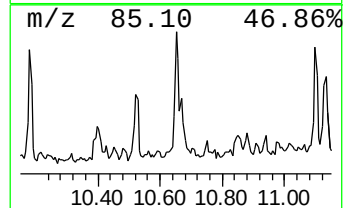
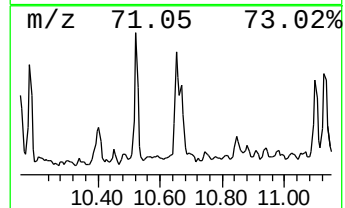
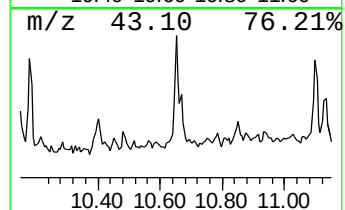
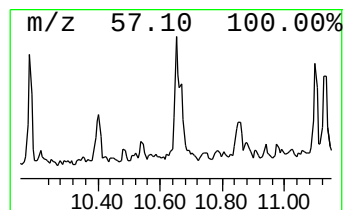
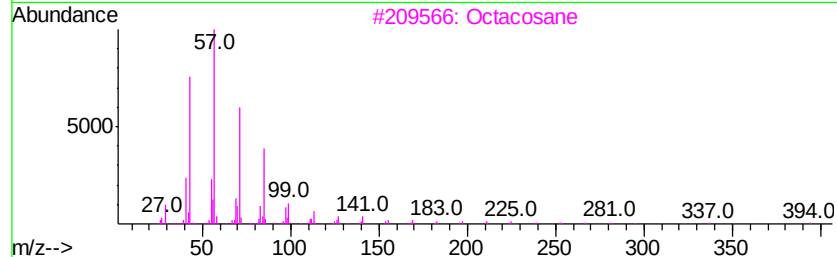
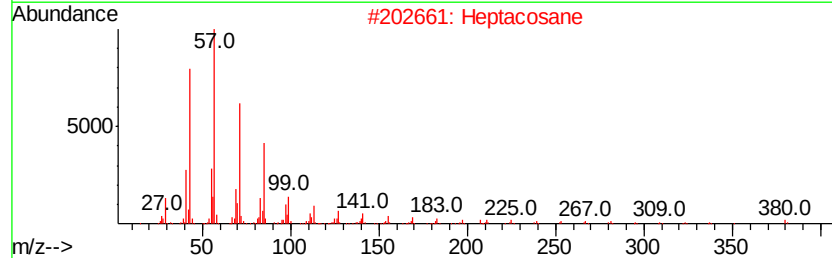
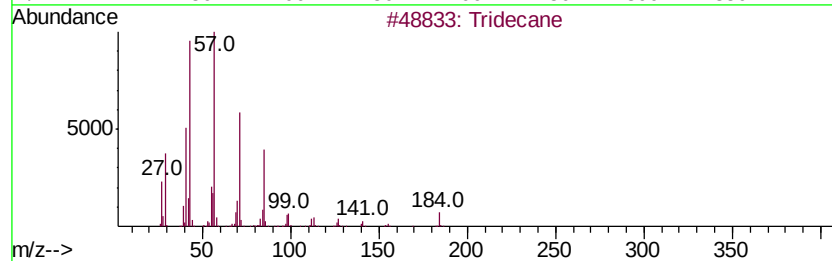
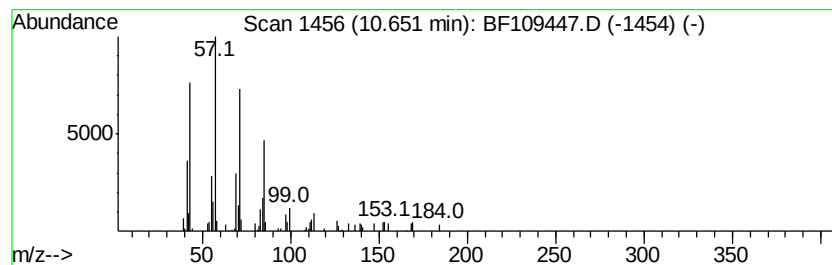
Instrument :  
BNA\_F  
ClientSampleId :  
WS-1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF092218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 8 Tridecane Concentration Rank 14

| R.T.      | EstConc      | Area  | Relative to ISTD |             | R.T.  |
|-----------|--------------|-------|------------------|-------------|-------|
| 10.65     | 2.23 ng      | 69150 | Phenanthrene-d10 |             | 11.22 |
| Hit# of 5 | Tentative ID | MW    | MolForm          | CAS#        | Qual  |
| 1         | Tridecane    | 184   | C13H28           | 000629-50-5 | 87    |
| 2         | Heptacosane  | 380   | C27H56           | 000593-49-7 | 83    |
| 3         | Octacosane   | 394   | C28H58           | 000630-02-4 | 80    |
| 4         | Pentadecane  | 212   | C15H32           | 000629-62-9 | 80    |
| 5         | Heptadecane  | 240   | C17H36           | 000629-78-7 | 72    |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092818\  
Data File : BF109447.D  
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Operator : JU/SJ  
Sample : J5148-01  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF092218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

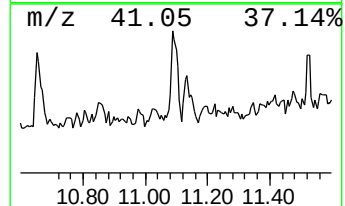
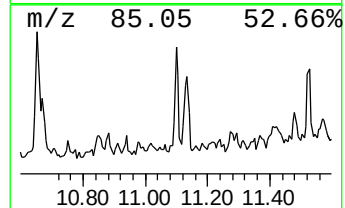
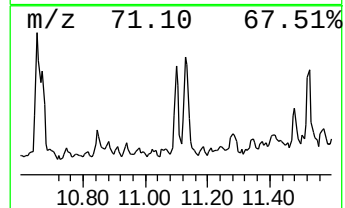
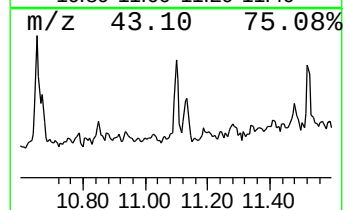
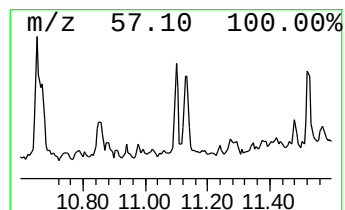
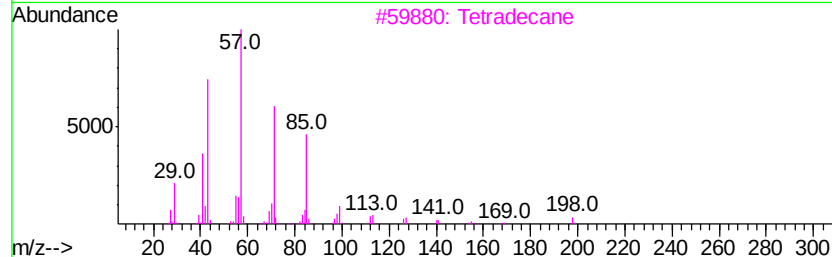
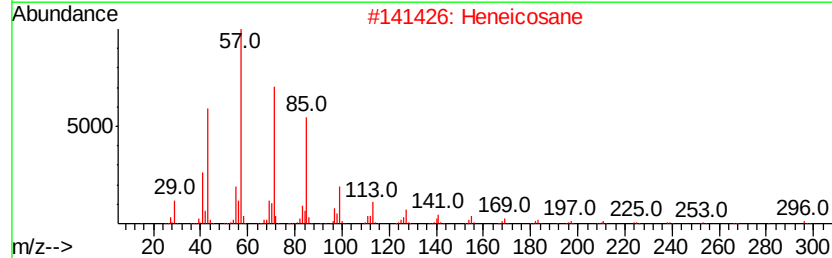
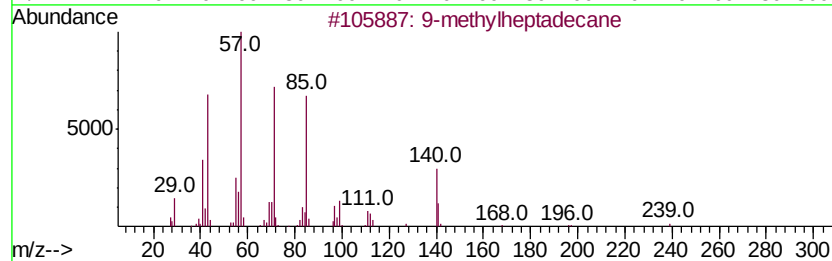
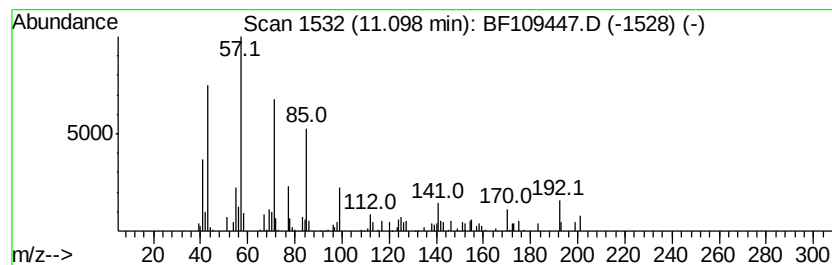
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TIC Integration Parameters: LSCINT.P

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Peak Number 9 9-methylheptadecane Concentration Rank 8

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 11.10 | 2.90 ng | 90178 | Phenanthrene-d10 | 11.22 |

| Hit# of | 5 | Tentative ID        | MW  | MolForm  | CAS#        | Qual |
|---------|---|---------------------|-----|----------|-------------|------|
| 1       |   | 9-methylheptadecane | 254 | C18H38   | 026741-18-4 | 58   |
| 2       |   | Heneicosane         | 296 | C21H44   | 000629-94-7 | 53   |
| 3       |   | Tetradecane         | 198 | C14H30   | 000629-59-4 | 49   |
| 4       |   | Tetracosane         | 338 | C24H50   | 000646-31-1 | 47   |
| 5       |   | Decane, 3-bromo-    | 220 | C10H21Br | 030571-71-2 | 46   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092818\  
Data File : BF109447.D  
Acq On : 28 Sep 2018 22:56  
Operator : JU/SJ  
Sample : J5148-01  
Misc :  
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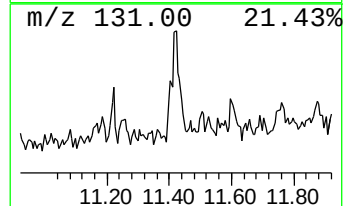
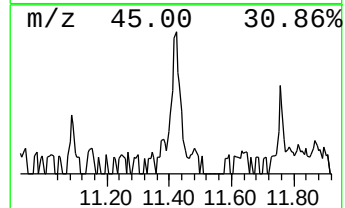
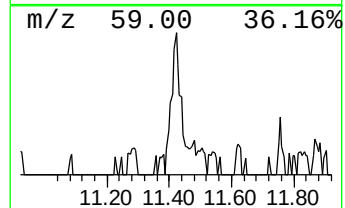
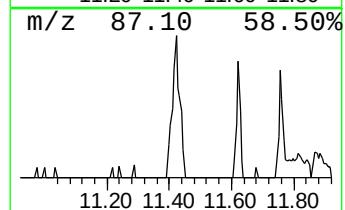
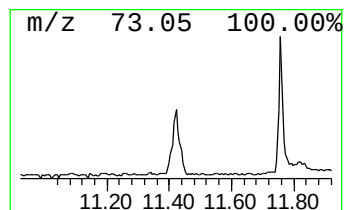
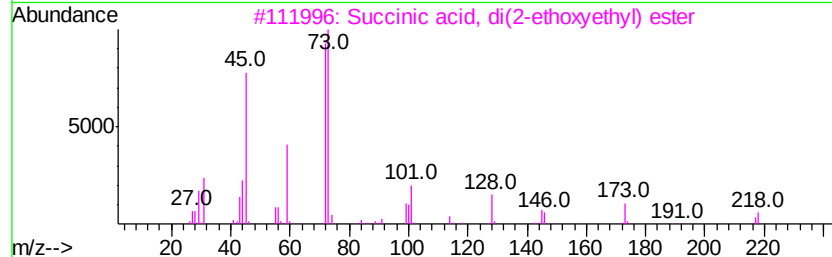
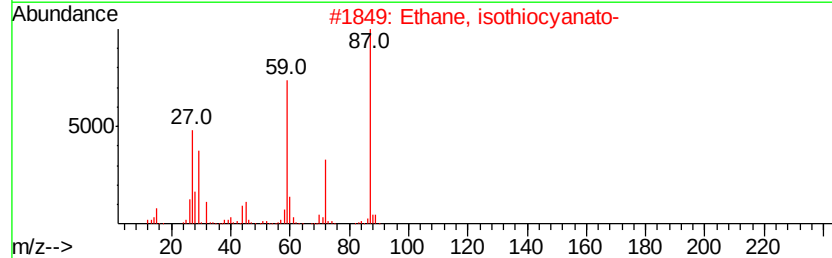
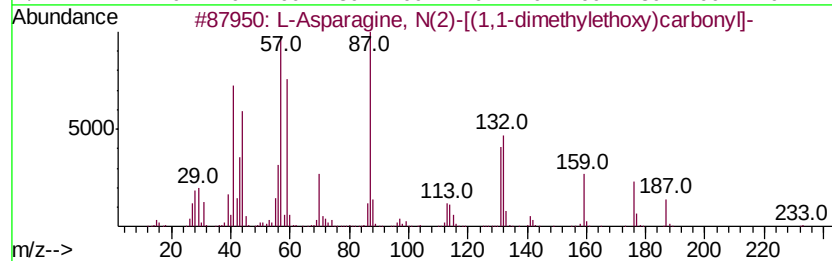
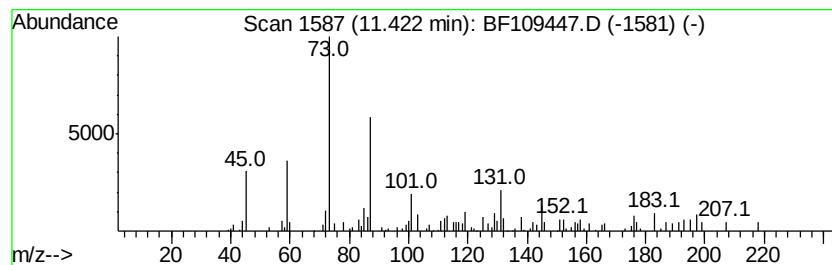
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ClientSampleId :  
WS-1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF092218.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 unknown11.42 Concentration Rank 11

| R.T.      | EstConc                              | Area  | Relative to ISTD | R.T.         |      |
|-----------|--------------------------------------|-------|------------------|--------------|------|
| 11.42     | 2.53 ng                              | 78704 | Phenanthrene-d10 | 11.22        |      |
| Hit# of 5 | Tentative ID                         | MW    | MolForm          | CAS#         | Qual |
| 1         | L-Asparagine, N(2)-[f(1,1-dimethy... | 232   | C9H16N2O5        | 007536-55-2  | 35   |
| 2         | Ethane, isothiocyanato-              | 87    | C3H5NS           | 000542-85-8  | 27   |
| 3         | Succinic acid, di(2-ethoxvethyl)...  | 262   | C12H22O6         | 1000329-84-1 | 16   |
| 4         | Trimethyl(n-pentvl)silane            | 144   | C8H20Si          | 001641-49-2  | 14   |
| 5         | 3-Hexanol, 2,4-dimethyl-             | 130   | C8H18O           | 013432-25-2  | 14   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092818\  
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Operator : JU/SJ  
Sample : J5148-01  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
WS-1

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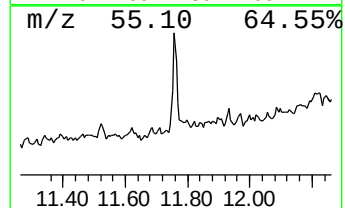
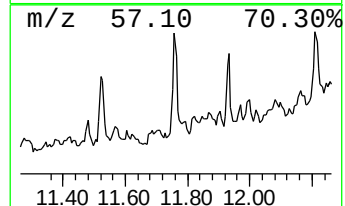
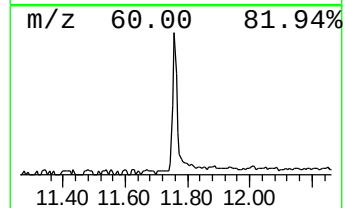
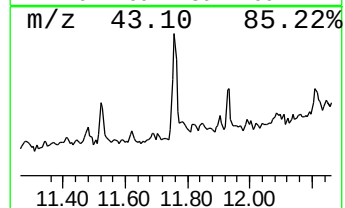
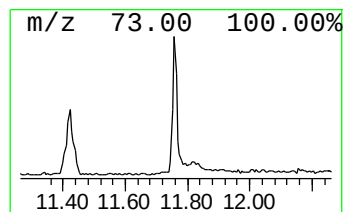
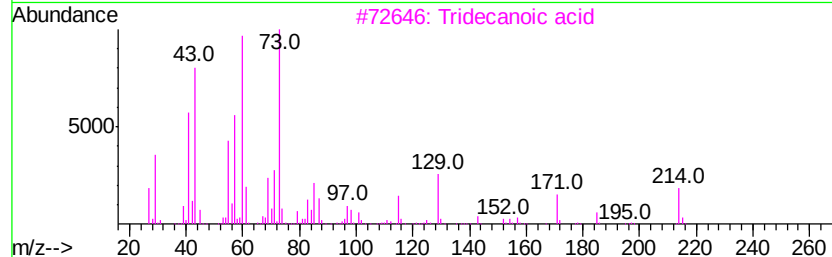
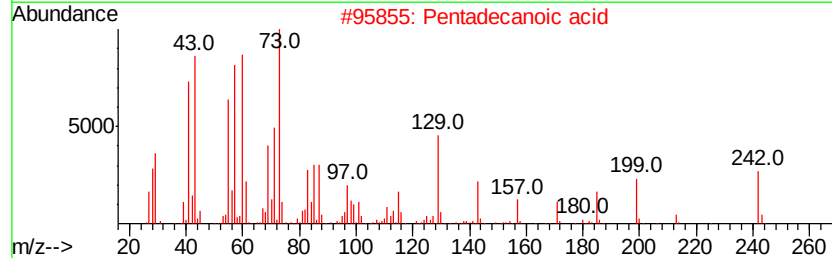
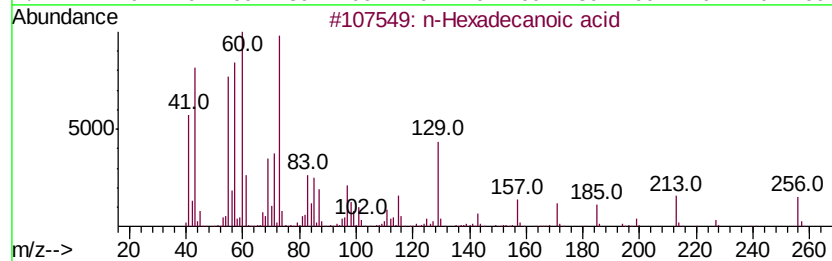
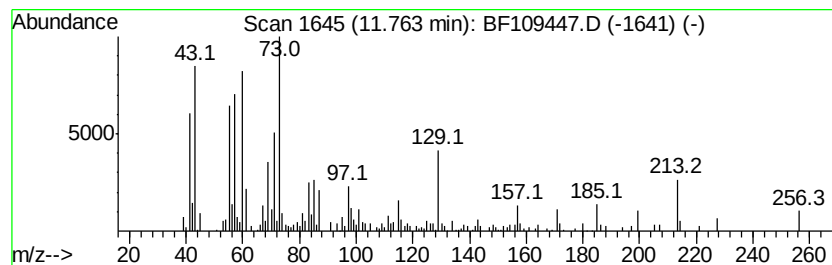
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 11 n-Hexadecanoic acid Concentration Rank 4

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 11.76 | 5.40 ng | 167618 | Phenanthrene-d10 | 11.22 |

| Hit# | of | Tentative ID        | MW  | MolForm  | CAS#        | Qual |
|------|----|---------------------|-----|----------|-------------|------|
| 1    | 5  | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 98   |
| 2    |    | Pentadecanoic acid  | 242 | C15H30O2 | 001002-84-2 | 91   |
| 3    |    | Tridecanoic acid    | 214 | C13H26O2 | 000638-53-9 | 91   |
| 4    |    | Tetradecanoic acid  | 228 | C14H28O2 | 000544-63-8 | 83   |
| 5    |    | Nonanoic acid       | 158 | C9H18O2  | 000112-05-0 | 43   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092818\  
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Misc :  
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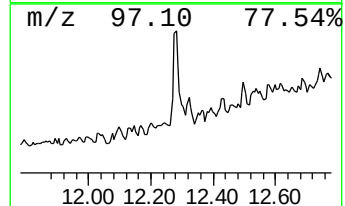
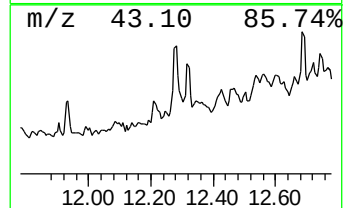
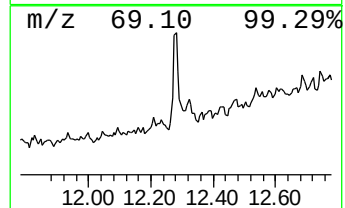
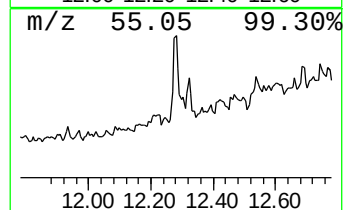
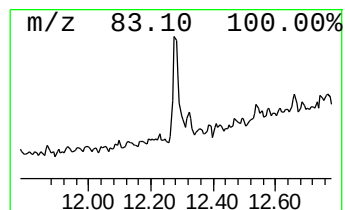
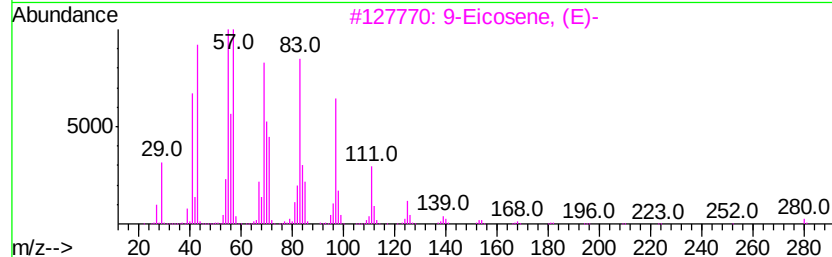
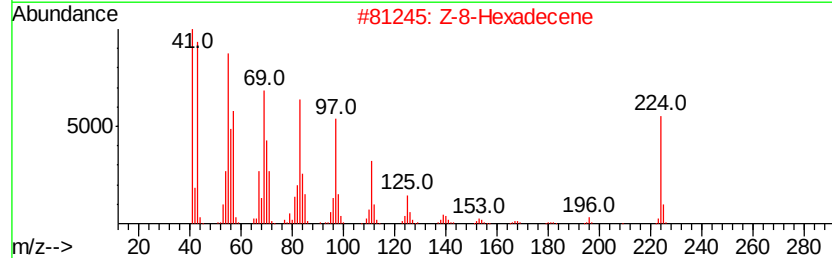
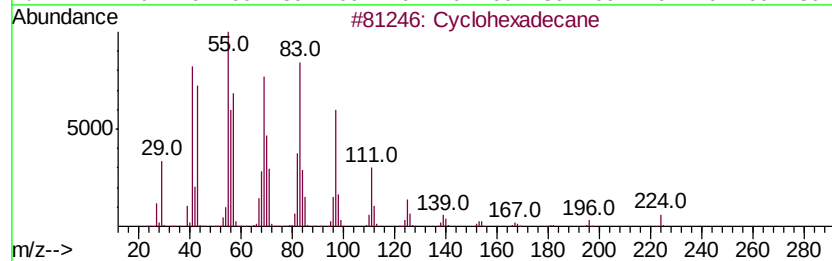
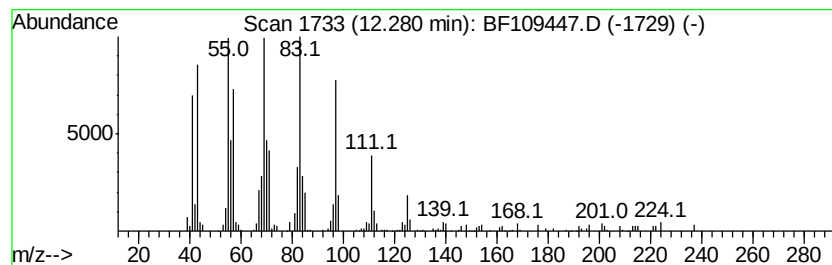
Instrument :  
BNA\_F  
ClientSampleId :  
WS-1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF092218.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 12 Cyclohexadecane Concentration Rank 5

| R.T.      | EstConc          | Area   | Relative to ISTD | R.T.         |      |
|-----------|------------------|--------|------------------|--------------|------|
| 12.28     | 5.33 ng          | 165337 | Phenanthrene-d10 | 11.22        |      |
| Hit# of 5 | Tentative ID     | MW     | MolForm          | CAS#         | Qual |
| 1         | Cyclohexadecane  | 224    | C16H32           | 000295-65-8  | 99   |
| 2         | Z-8-Hexadecene   | 224    | C16H32           | 1000130-87-5 | 96   |
| 3         | 9-Eicosene, (E)- | 280    | C20H40           | 074685-29-3  | 91   |
| 4         | Cetene           | 224    | C16H32           | 000629-73-2  | 89   |
| 5         | 1-Tetradecene    | 196    | C14H28           | 001120-36-1  | 83   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092818\  
Data File : BF109447.D  
Acq On : 28 Sep 2018 22:56  
Operator : JU/SJ  
Sample : J5148-01  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
WS-1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF092218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

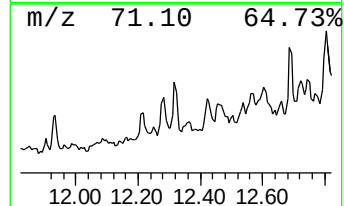
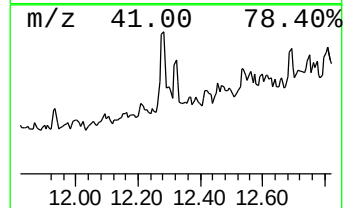
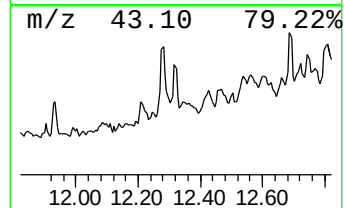
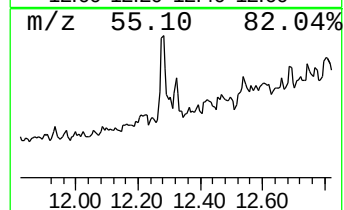
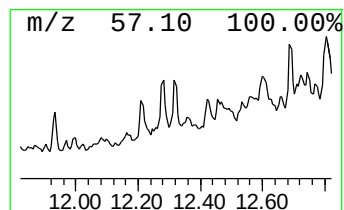
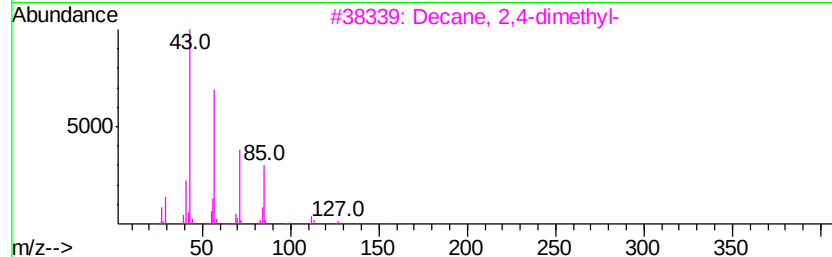
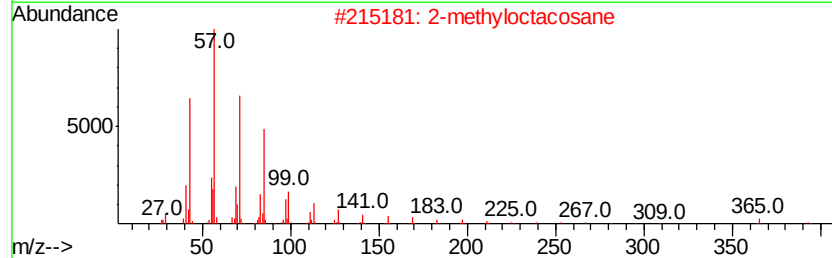
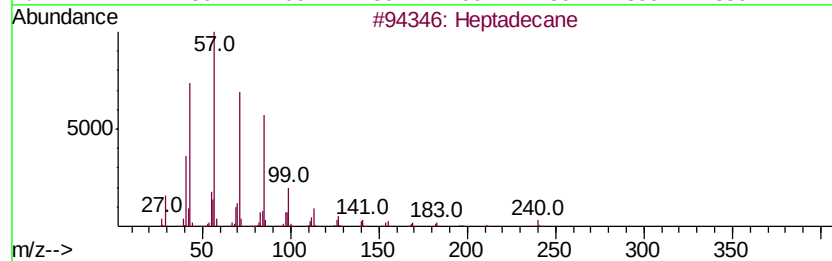
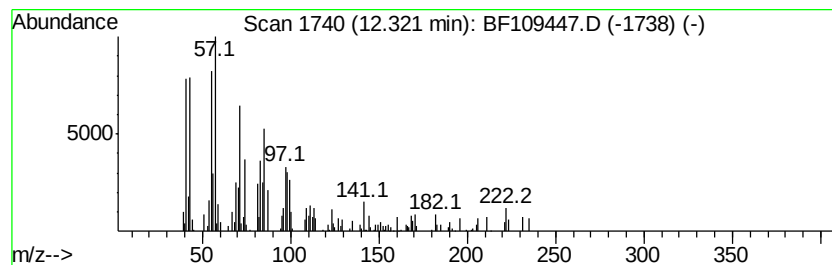
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 13 unknown12.32 Concentration Rank 13

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 12.32 | 2.29 ng | 71054 | Phenanthrene-d10 | 11.22 |

| Hit# | of | Tentative ID          | MW  | MolForm | CAS#         | Qual |
|------|----|-----------------------|-----|---------|--------------|------|
| 1    | 5  | Heptadecane           | 240 | C17H36  | 000629-78-7  | 43   |
| 2    |    | 2-methyloctacosane    | 408 | C29H60  | 1000376-72-8 | 38   |
| 3    |    | Decane, 2,4-dimethyl- | 170 | C12H26  | 002801-84-5  | 35   |
| 4    |    | Tetradecane           | 198 | C14H30  | 000629-59-4  | 35   |
| 5    |    | 7-Tetradecene, (Z)-   | 196 | C14H28  | 041446-60-0  | 35   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092818\  
Data File : BF109447.D  
Acq On : 28 Sep 2018 22:56  
Operator : JU/SJ  
Sample : J5148-01  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
WS-1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF092218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

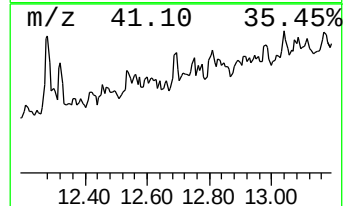
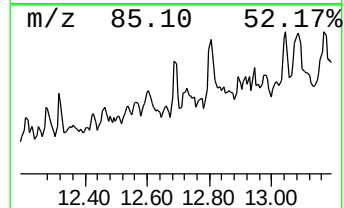
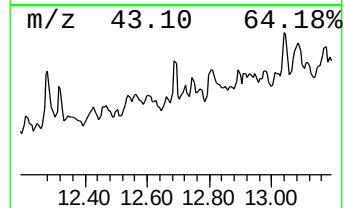
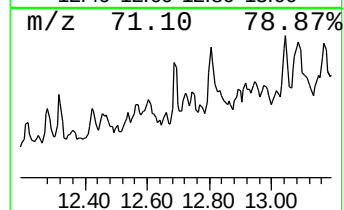
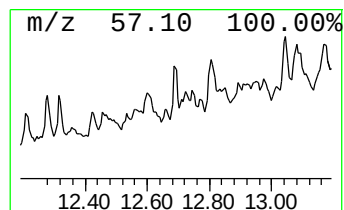
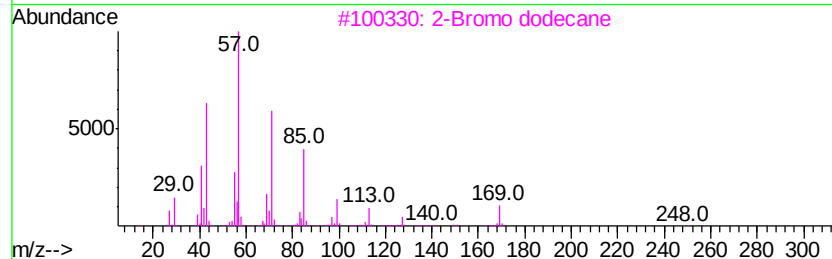
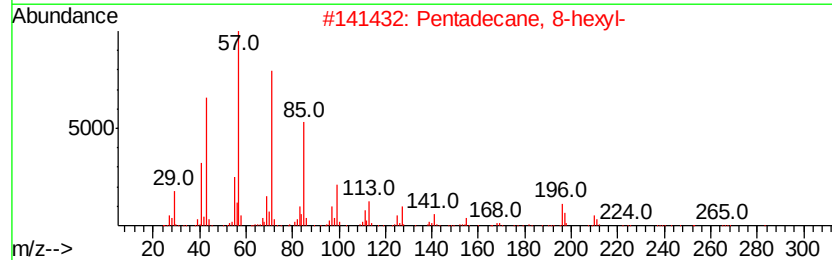
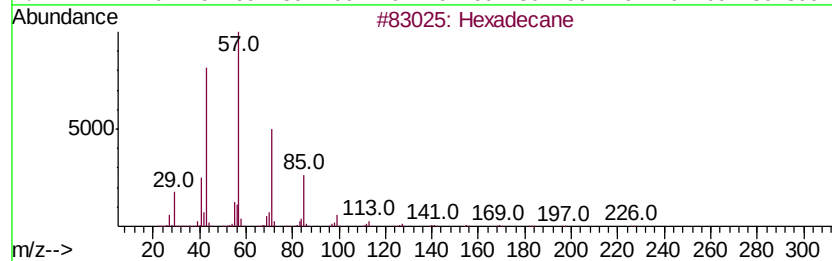
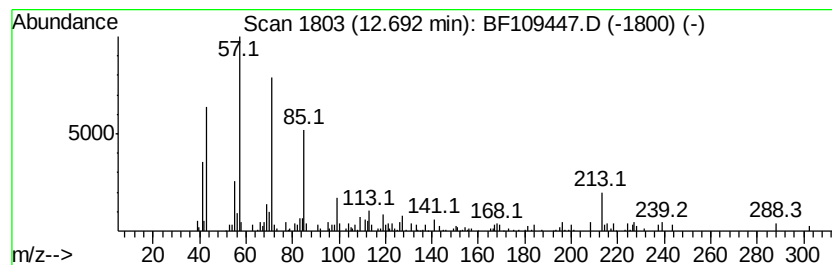
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 14 Hexadecane Concentration Rank 9

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 12.69 | 2.79 ng | 78693 | Chrysene-d12     | 13.84 |

| Hit# | of | Tentative ID          | MW  | MolForm  | CAS#        | Qual |
|------|----|-----------------------|-----|----------|-------------|------|
| 1    | 5  | Hexadecane            | 226 | C16H34   | 000544-76-3 | 78   |
| 2    |    | Pentadecane, 8-hexyl- | 296 | C21H44   | 013475-75-7 | 52   |
| 3    |    | 2-Bromo dodecane      | 248 | C12H25Br | 013187-99-0 | 49   |
| 4    |    | Octadecane            | 254 | C18H38   | 000593-45-3 | 47   |
| 5    |    | Tridecane, 1-iodo-    | 310 | C13H27I  | 035599-77-0 | 47   |





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092818\  
Data File : BF109447.D  
Acq On : 28 Sep 2018 22:56  
Operator : JU/SJ  
Sample : J5148-01  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
WS-1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF092218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

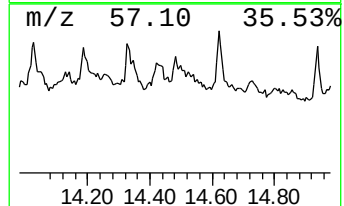
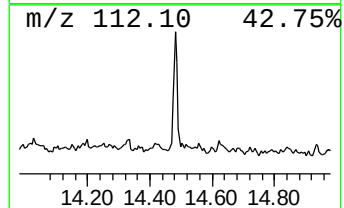
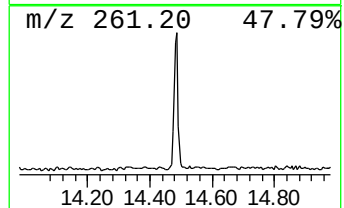
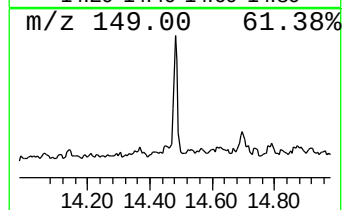
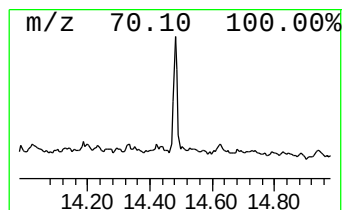
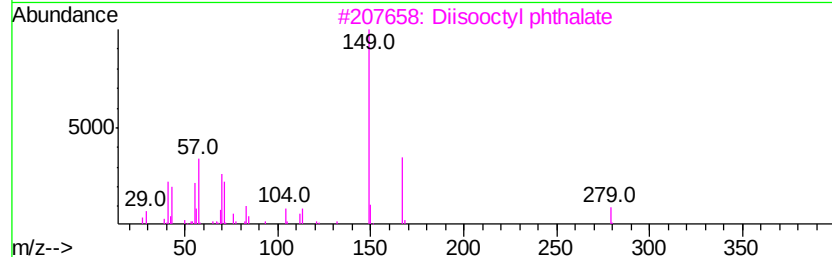
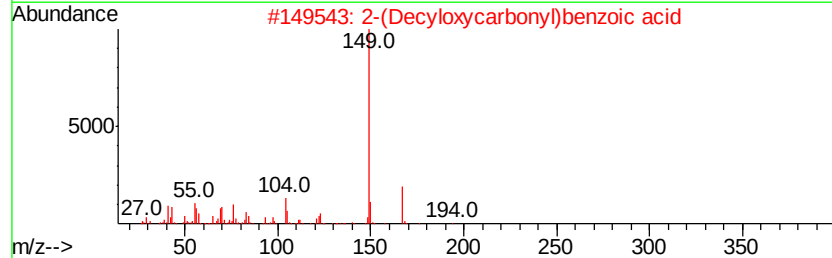
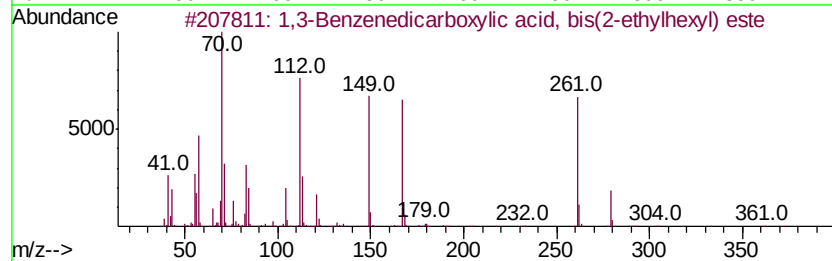
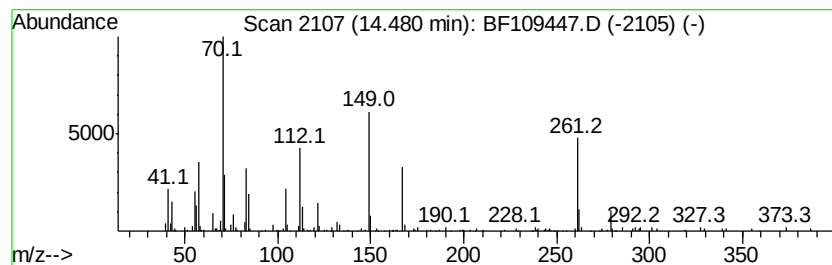
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 15 unknown14.48 Concentration Rank 6

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 14.48 | 3.66 ng | 103193 | Chrysene-d12     | 13.84 |

| Hit# | of | Tentative ID                        | MW  | MolForm    | CAS#         | Qual |
|------|----|-------------------------------------|-----|------------|--------------|------|
| 1    | 5  | 1,3-Benzenedicarboxylic acid, bi... | 390 | C24H38O4   | 000137-89-3  | 42   |
| 2    |    | 2-(Decyloxy carbonyl)benzoic acid   | 306 | C18H26O4   | 1000373-53-2 | 25   |
| 3    |    | Diisooctyl phthalate                | 390 | C24H38O4   | 000131-20-4  | 22   |
| 4    |    | Bromoacetic acid, 2-ethylhexyl e... | 250 | C10H19BrO2 | 068144-73-0  | 16   |
| 5    |    | Fumaric acid, 2-ethylhexyl hexyl... | 312 | C18H32O4   | 1000339-14-1 | 14   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF092818\  
 Data File : BF109447.D  
 Acq On : 28 Sep 2018 22:56  
 Operator : JU/SJ  
 Sample : J5148-01  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 WS-1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF092218.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 |
| unknown6.48          | 6.48  | 59.3    | ng    | 1801750  | 1                     | 6.71  | 607757 | 20.0 |
| Hexanoic acid, 3,... | 7.53  | 2.1     | ng    | 71426    | 2                     | 7.99  | 676944 | 20.0 |
| unknown9.33          | 9.33  | 2.4     | ng    | 80700    | 3                     | 9.74  | 687943 | 20.0 |
| .alpha.,.alpha.'-... | 9.51  | 5.4     | ng    | 187226   | 3                     | 9.74  | 687943 | 20.0 |
| unknown9.61          | 9.61  | 3.6     | ng    | 124600   | 3                     | 9.74  | 687943 | 20.0 |
| unknown10.07         | 10.07 | 2.5     | ng    | 87632    | 3                     | 9.74  | 687943 | 20.0 |
| Tridecane            | 10.65 | 2.2     | ng    | 69150    | 4                     | 11.22 | 620943 | 20.0 |
| 9-methylheptadecane  | 11.10 | 2.9     | ng    | 90178    | 4                     | 11.22 | 620943 | 20.0 |
| unknown11.42         | 11.42 | 2.5     | ng    | 78704    | 4                     | 11.22 | 620943 | 20.0 |
| n-Hexadecanoic acid  | 11.76 | 5.4     | ng    | 167618   | 4                     | 11.22 | 620943 | 20.0 |
| Cyclohexadecane      | 12.28 | 5.3     | ng    | 165337   | 4                     | 11.22 | 620943 | 20.0 |
| unknown12.32         | 12.32 | 2.3     | ng    | 71054    | 4                     | 11.22 | 620943 | 20.0 |
| Hexadecane           | 12.69 | 2.8     | ng    | 78693    | 5                     | 13.84 | 564636 | 20.0 |
| unknown14.48         | 14.48 | 3.7     | ng    | 103193   | 5                     | 13.84 | 564636 | 20.0 |