

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA\_F\DATA\BF030518\  
 Data File : BF103431.D  
 Acq On : 6 Mar 2018 1:20  
 Operator : SJ/JU  
 Sample : J1767-03  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 RO-72-11998

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-BF022218.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         | 2.140       | 3             | 9           | 19           | rBV      | 230590         | 311511        | 7.75%           | 0.887%        |
| 2         | 5.098       | 509           | 512         | 528          | rBV      | 207598         | 298256        | 7.42%           | 0.849%        |
| 3         | 5.510       | 578           | 582         | 608          | rBV      | 1994830        | 2940813       | 73.19%          | 8.375%        |
| 4         | 6.522       | 750           | 754         | 772          | rBV      | 2635574        | 4017903       | 100.00%         | 11.443%       |
| 5         | 6.651       | 772           | 776         | 789          | rVB      | 3022075        | 3273721       | 81.48%          | 9.323%        |
| 6         | 6.869       | 810           | 813         | 821          | rBV      | 763700         | 811265        | 20.19%          | 2.310%        |
| 7         | 6.939       | 821           | 825         | 830          | rVB3     | 32771          | 58637         | 1.46%           | 0.167%        |
| 8         | 7.028       | 836           | 840         | 855          | rVB      | 2778991        | 2801640       | 69.73%          | 7.979%        |
| 9         | 7.439       | 906           | 910         | 920          | rBV      | 2238281        | 2379705       | 59.23%          | 6.777%        |
| 10        | 8.157       | 1028          | 1032        | 1038         | rBV      | 997042         | 1025300       | 25.52%          | 2.920%        |
| 11        | 8.728       | 1128          | 1129        | 1134         | rVV      | 45428          | 42831         | 1.07%           | 0.122%        |
| 12        | 9.228       | 1210          | 1214        | 1223         | rBV      | 2977913        | 3192402       | 79.45%          | 9.092%        |
| 13        | 9.298       | 1223          | 1226        | 1228         | rVB      | 60557          | 53635         | 1.33%           | 0.153%        |
| 14        | 9.622       | 1276          | 1281        | 1288         | rBV      | 583441         | 565792        | 14.08%          | 1.611%        |
| 15        | 9.828       | 1312          | 1316        | 1319         | rBV      | 129747         | 111482        | 2.77%           | 0.317%        |
| 16        | 9.916       | 1327          | 1331        | 1338         | rVB      | 1015417        | 931630        | 23.19%          | 2.653%        |
| 17        | 10.328      | 1398          | 1401        | 1404         | rVB2     | 195477         | 162163        | 4.04%           | 0.462%        |
| 18        | 10.545      | 1433          | 1438        | 1441         | rBV      | 72906          | 84204         | 2.10%           | 0.240%        |
| 19        | 10.628      | 1449          | 1452        | 1456         | rBV      | 223399         | 216225        | 5.38%           | 0.616%        |
| 20        | 10.710      | 1462          | 1466        | 1473         | rBV      | 627217         | 637620        | 15.87%          | 1.816%        |
| 21        | 10.798      | 1478          | 1481        | 1492         | rVB      | 202547         | 249625        | 6.21%           | 0.711%        |
| 22        | 10.992      | 1511          | 1514        | 1518         | rBV2     | 27159          | 44226         | 1.10%           | 0.126%        |
| 23        | 11.127      | 1534          | 1537        | 1539         | rBV      | 86167          | 68024         | 1.69%           | 0.194%        |
| 24        | 11.251      | 1555          | 1558        | 1560         | rBV      | 118171         | 99065         | 2.47%           | 0.282%        |
| 25        | 11.410      | 1581          | 1585        | 1588         | rBV      | 889381         | 826956        | 20.58%          | 2.355%        |
| 26        | 11.439      | 1588          | 1590        | 1597         | rVB2     | 186800         | 176883        | 4.40%           | 0.504%        |
| 27        | 11.675      | 1628          | 1630        | 1633         | rVB      | 78098          | 62797         | 1.56%           | 0.179%        |
| 28        | 11.780      | 1645          | 1648        | 1651         | rVB      | 94985          | 75459         | 1.88%           | 0.215%        |
| 29        | 11.916      | 1668          | 1671        | 1679         | rBV3     | 118912         | 182587        | 4.54%           | 0.520%        |
| 30        | 12.086      | 1697          | 1700        | 1703         | rBV      | 85320          | 83897         | 2.09%           | 0.239%        |
| 31        | 12.469      | 1762          | 1765        | 1767         | rBV2     | 339433         | 348804        | 8.68%           | 0.993%        |
| 32        | 12.486      | 1767          | 1768        | 1773         | rVB3     | 237397         | 176142        | 4.38%           | 0.502%        |
| 33        | 12.574      | 1781          | 1783        | 1787         | rVB4     | 49116          | 47116         | 1.17%           | 0.134%        |
| 34        | 12.627      | 1788          | 1792        | 1795         | rBV      | 171355         | 203893        | 5.07%           | 0.581%        |

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Sample : J1767-03  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
RO-72-11998

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-BF022218.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 35 | 12.657 | 1795 | 1797 | 1800 | rVB2 | 51860   | 45590   | 1.13%  | 0.130% |
| 36 | 12.845 | 1826 | 1829 | 1830 | rBV2 | 103266  | 92437   | 2.30%  | 0.263% |
| 37 | 12.998 | 1850 | 1855 | 1858 | rBV  | 2081999 | 2106591 | 52.43% | 5.999% |
| 38 | 13.180 | 1884 | 1886 | 1888 | rBV2 | 58502   | 62933   | 1.57%  | 0.179% |
| 39 | 13.204 | 1888 | 1890 | 1892 | rVB  | 111296  | 90906   | 2.26%  | 0.259% |
| 40 | 13.327 | 1909 | 1911 | 1915 | rBV2 | 67944   | 73726   | 1.83%  | 0.210% |
| 41 | 13.427 | 1925 | 1928 | 1930 | rBV  | 82683   | 73940   | 1.84%  | 0.211% |
| 42 | 13.516 | 1940 | 1943 | 1945 | rBV  | 236783  | 190207  | 4.73%  | 0.542% |
| 43 | 13.545 | 1945 | 1948 | 1951 | rVV2 | 107244  | 118573  | 2.95%  | 0.338% |
| 44 | 13.874 | 2001 | 2004 | 2007 | rBV  | 342246  | 337748  | 8.41%  | 0.962% |
| 45 | 14.068 | 2033 | 2037 | 2040 | rBV  | 554517  | 602426  | 14.99% | 1.716% |
| 46 | 14.510 | 2109 | 2112 | 2121 | rVB  | 407292  | 530000  | 13.19% | 1.509% |
| 47 | 14.968 | 2188 | 2190 | 2194 | rVB  | 186614  | 182889  | 4.55%  | 0.521% |
| 48 | 15.163 | 2219 | 2223 | 2227 | rBV  | 927638  | 994849  | 24.76% | 2.833% |
| 49 | 15.551 | 2286 | 2289 | 2291 | rBV  | 135591  | 154233  | 3.84%  | 0.439% |
| 50 | 15.586 | 2292 | 2295 | 2304 | rVB  | 279986  | 411404  | 10.24% | 1.172% |
| 51 | 15.762 | 2321 | 2325 | 2331 | rVB  | 437110  | 584151  | 14.54% | 1.664% |
| 52 | 15.998 | 2360 | 2365 | 2371 | rVB  | 702403  | 1023067 | 25.46% | 2.914% |
| 53 | 16.821 | 2500 | 2505 | 2513 | rVB  | 445756  | 875595  | 21.79% | 2.494% |

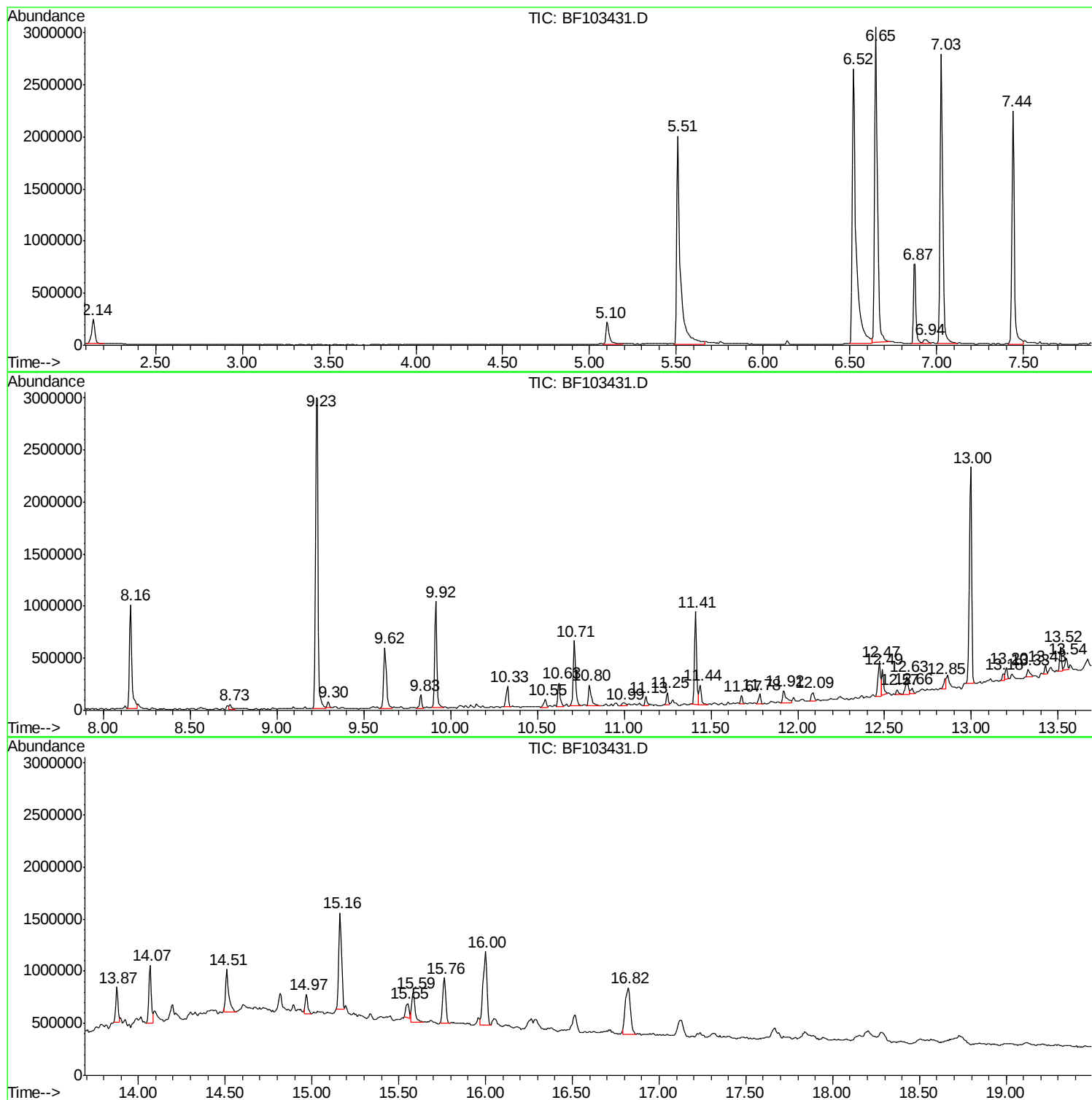
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Sample : J1767-03  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF022218.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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Operator : SJ/JU  
Sample : J1767-03  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
RO-72-11998

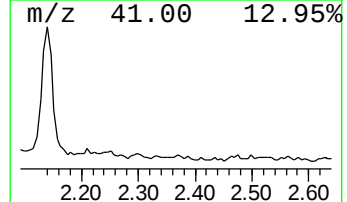
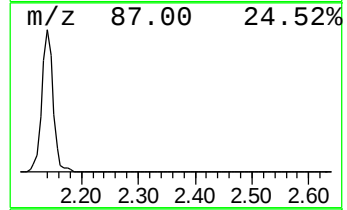
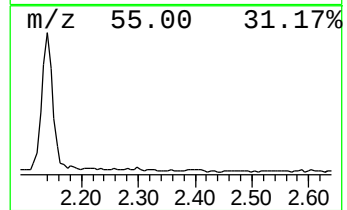
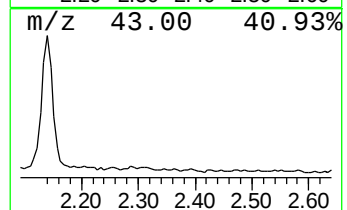
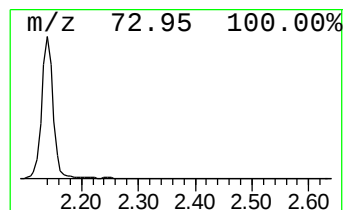
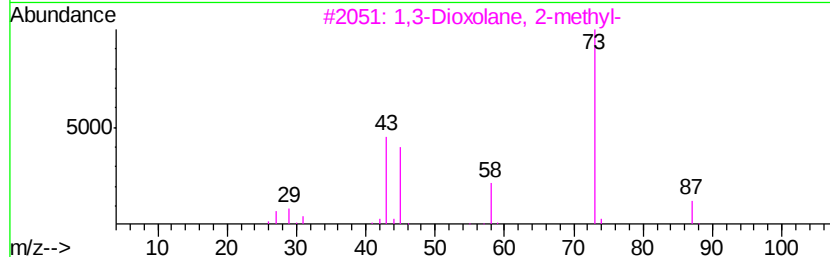
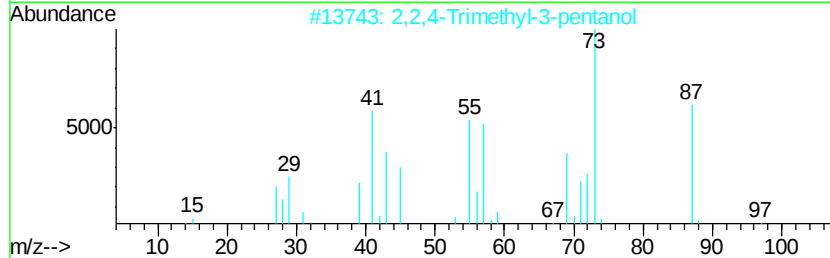
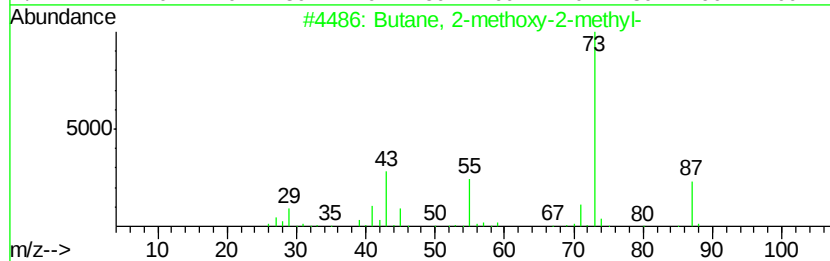
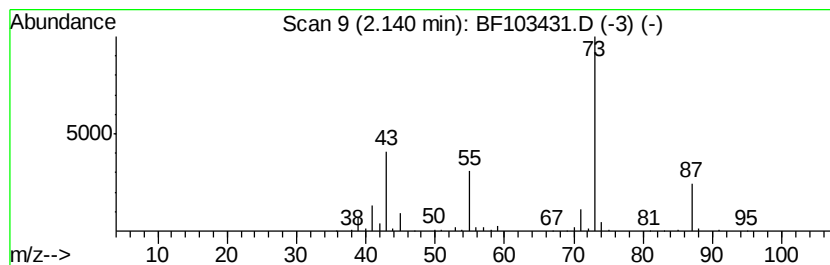
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF022218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 10

| R.T. | EstConc | Area   | Relative to ISTD       | R.T. |
|------|---------|--------|------------------------|------|
| 2.14 | 7.68 ng | 311511 | 1,4-Dichlorobenzene-d4 | 6.87 |

| Hit# | of | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------------|-----|---------|-------------|------|
| 1    | 5  | Butane, 2-methoxy-2-methyl-    | 102 | C6H14O  | 000994-05-8 | 83   |
| 2    |    | 2,2,4-Trimethyl-3-pentanol     | 130 | C8H18O  | 005162-48-1 | 39   |
| 3    |    | 1,3-Dioxolane, 2-methyl-       | 88  | C4H8O2  | 000497-26-7 | 38   |
| 4    |    | 2-Hydroxy-2-methylbutyric acid | 118 | C5H10O3 | 003739-30-8 | 25   |
| 5    |    | Pentane, 3-methoxy-            | 102 | C6H14O  | 036839-67-5 | 12   |



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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF022218.M  
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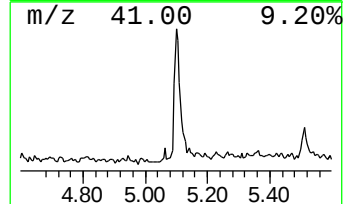
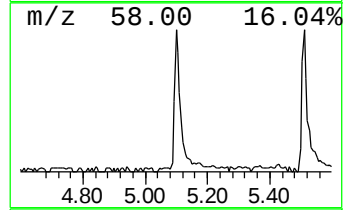
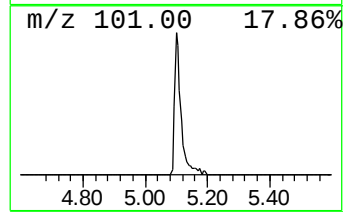
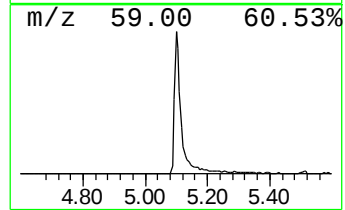
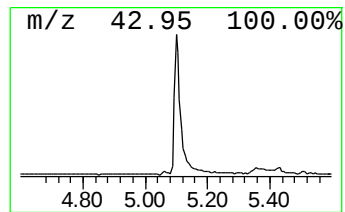
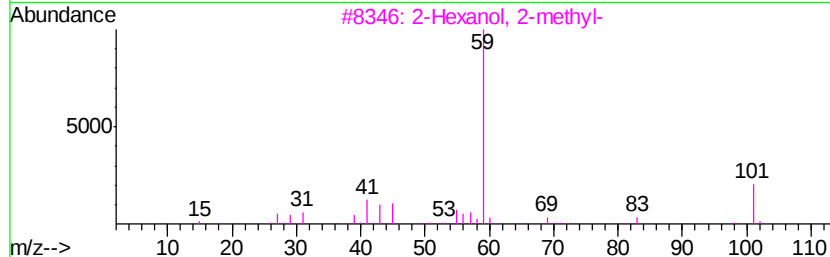
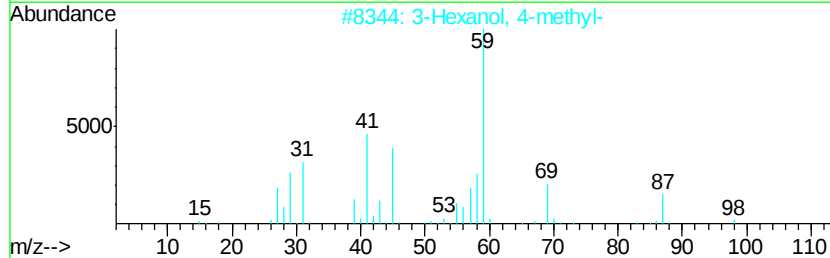
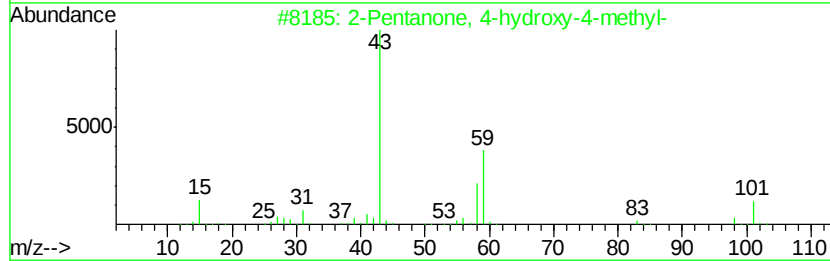
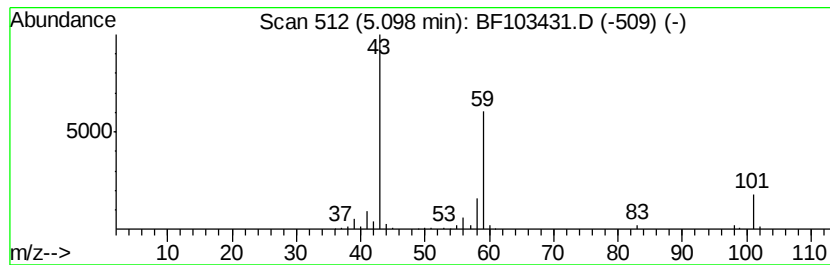
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 11

| R.T. | EstConc | Area   | Relative to ISTD       | R.T. |
|------|---------|--------|------------------------|------|
| 5.10 | 7.35 ng | 298256 | 1,4-Dichlorobenzene-d4 | 6.87 |

| Hit# | of | 5 | Tentative ID                         | MW  | MolForm  | CAS#        | Qual |
|------|----|---|--------------------------------------|-----|----------|-------------|------|
| 1    |    |   | 2-Pentanone, 4-hydroxy-4-methyl-     | 116 | C6H12O2  | 000123-42-2 | 64   |
| 2    |    |   | 3-Hexanol, 4-methyl-                 | 116 | C7H16O   | 000615-29-2 | 33   |
| 3    |    |   | 2-Hexanol, 2-methyl-                 | 116 | C7H16O   | 000625-23-0 | 28   |
| 4    |    |   | Acetic acid, cyano-, 1,1-dimethyl... | 141 | C7H11NO2 | 001116-98-9 | 23   |
| 5    |    |   | 1-Propen-2-ol, acetate               | 100 | C5H8O2   | 000108-22-5 | 10   |



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Instrument :  
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ClientSampleId :  
RO-72-11998

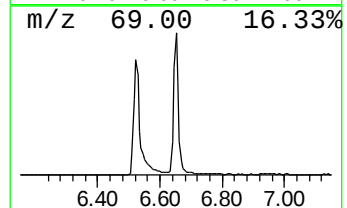
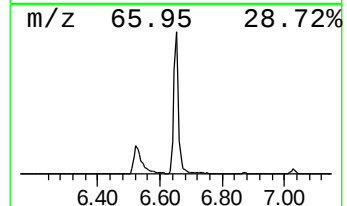
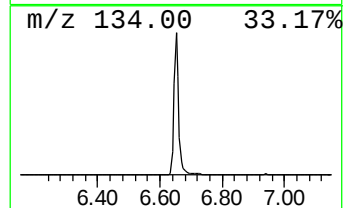
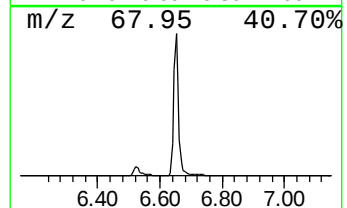
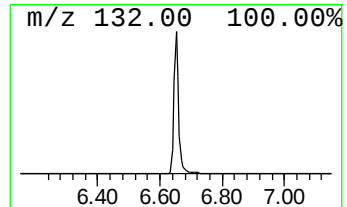
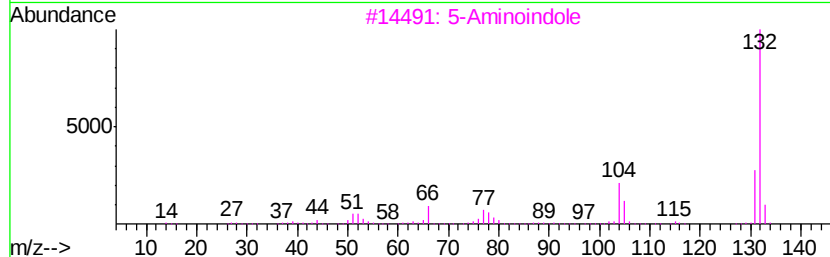
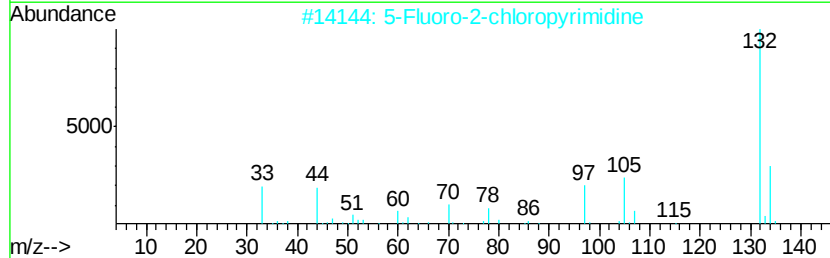
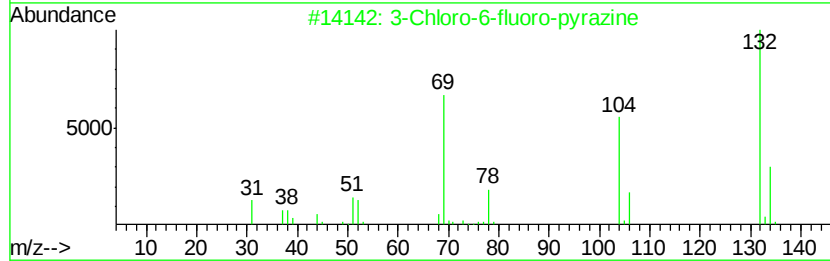
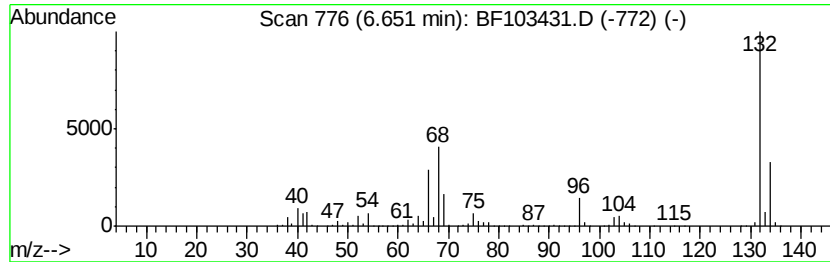
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF022218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 3 unknown6.65 Concentration Rank 1

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.65 | 80.71 ng | 3273720 | 1,4-Dichlorobenzene-d4 | 6.87 |

| Hit# | of | Tentative ID                   | MW  | MolForm   | CAS#         | Qual |
|------|----|--------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 3-Chloro-6-fluoro-pyrazine     | 132 | C4H2ClFN2 | 1000146-10-7 | 27   |
| 2    |    | 5-Fluoro-2-chloropyrimidine    | 132 | C4H2ClFN2 | 062802-42-0  | 16   |
| 3    |    | 5-Aminoindole                  | 132 | C8H8N2    | 005192-03-0  | 12   |
| 4    |    | Tranylcypromine-propionyl      | 189 | C12H15NO  | 1000123-86-3 | 10   |
| 5    |    | 1-Methylpyrrolo[1,2-a]pyrazine | 132 | C8H8N2    | 064608-59-9  | 9    |



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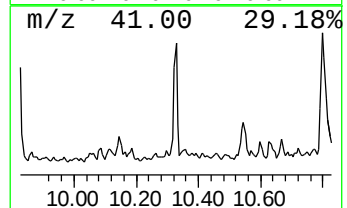
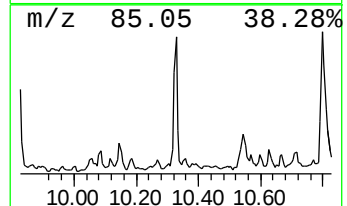
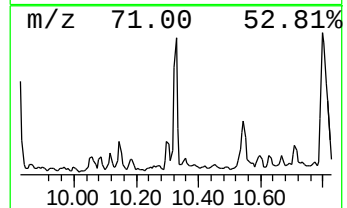
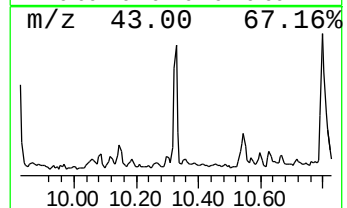
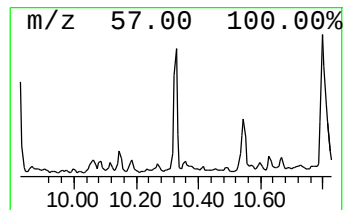
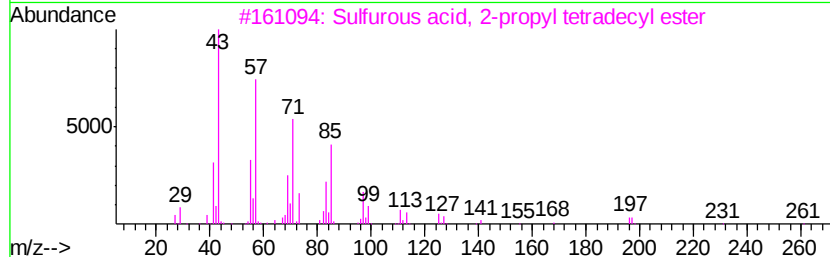
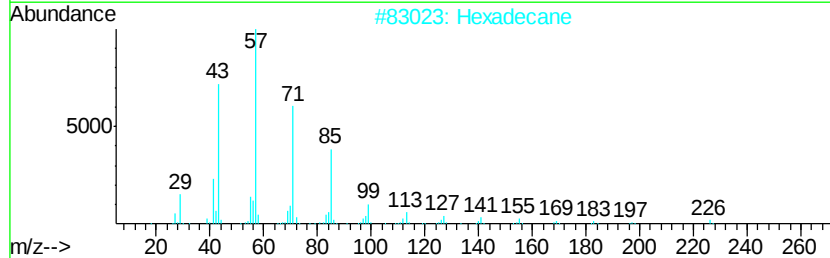
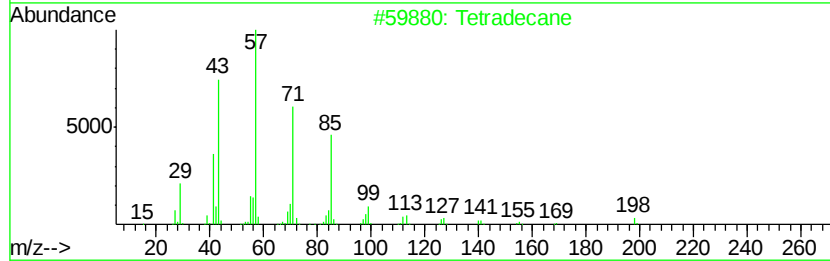
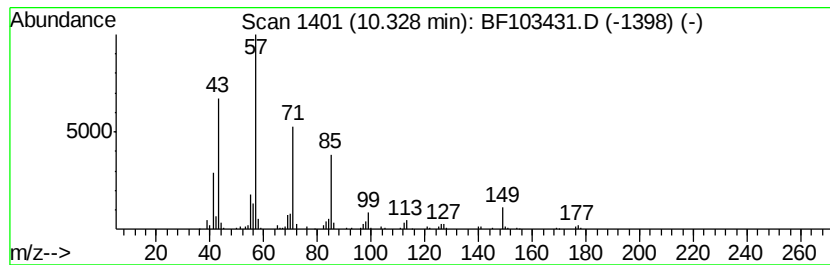
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 5 Tetradecane Concentration Rank 18

| R.T.      | EstConc                                   | Area   | Relative to ISTD | R.T.         |      |
|-----------|-------------------------------------------|--------|------------------|--------------|------|
| 10.33     | 3.48 ng                                   | 162163 | Acenaphthene-d10 | 9.92         |      |
| Hit# of 5 | Tentative ID                              | MW     | MolForm          | CAS#         | Qual |
| 1         | Tetradecane                               | 198    | C14H30           | 000629-59-4  | 87   |
| 2         | Hexadecane                                | 226    | C16H34           | 000544-76-3  | 86   |
| 3         | Sulfurous acid, 2-propyl tetradecyl ester | 320    | C17H36O3S        | 1000309-12-5 | 72   |
| 4         | Tridecane                                 | 184    | C13H28           | 000629-50-5  | 72   |
| 5         | Heptadecane                               | 240    | C17H36           | 000629-78-7  | 72   |



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Data File : BF103431.D  
Acq On : 6 Mar 2018 1:20  
Operator : SJ/JU  
Sample : J1767-03  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

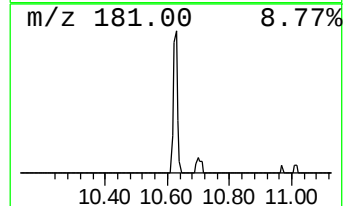
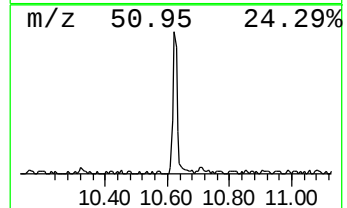
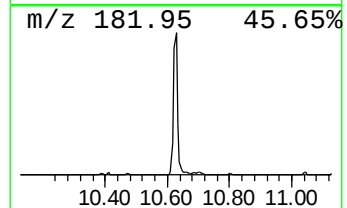
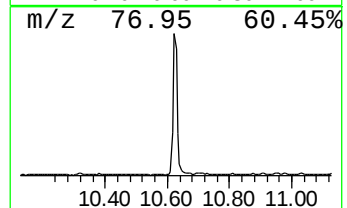
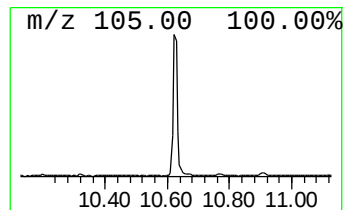
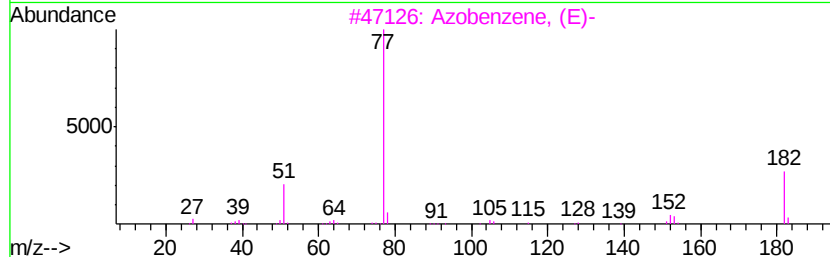
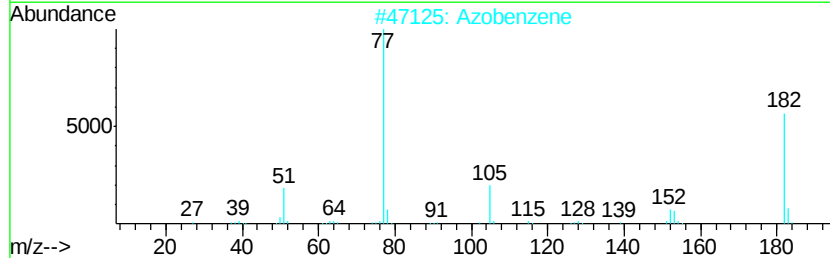
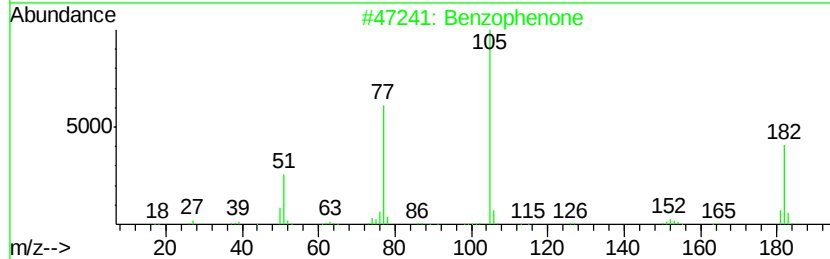
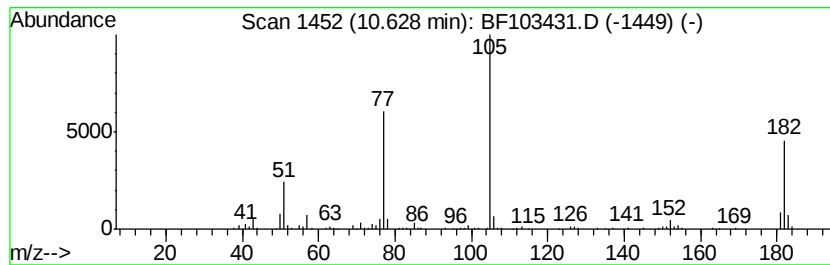
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ClientSampleId :  
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 6 Benzophenone Concentration Rank 14

| R.T.      | EstConc                             | Area   | Relative to ISTD | R.T.         |      |
|-----------|-------------------------------------|--------|------------------|--------------|------|
| 10.63     | 4.64 ng                             | 216225 | Acenaphthene-d10 | 9.92         |      |
| Hit# of 5 | Tentative ID                        | MW     | MolForm          | CAS#         | Qual |
| 1         | Benzophenone                        | 182    | C13H10O          | 000119-61-9  | 96   |
| 2         | Azobenzene                          | 182    | C12H10N2         | 000103-33-3  | 64   |
| 3         | Azobenzene, (E)-                    | 182    | C12H10N2         | 017082-12-1  | 59   |
| 4         | Methanone, (4-chlorophenyl)(3-be... | 311    | C17H10ClNO3      | 1000276-36-3 | 47   |
| 5         | Ethanone, 2-hydroxy-1-phenyl-       | 136    | C8H8O2           | 000582-24-1  | 47   |



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Acq On : 6 Mar 2018 1:20  
Operator : SJ/JU  
Sample : J1767-03  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
RO-72-11998

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

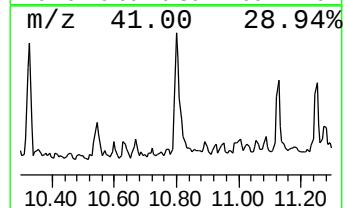
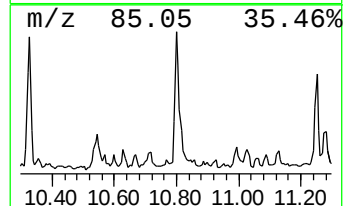
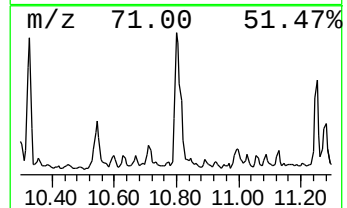
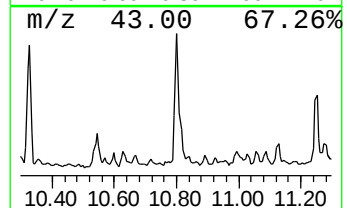
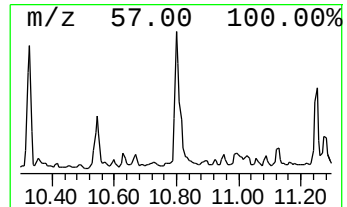
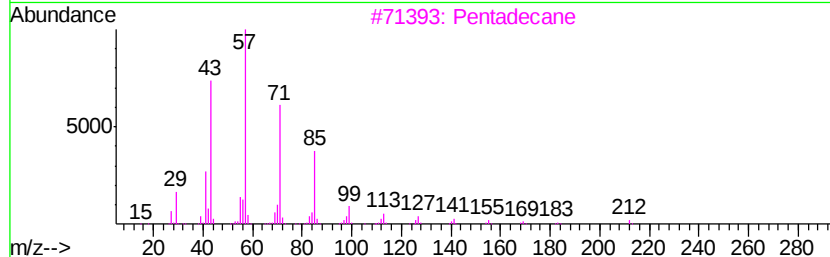
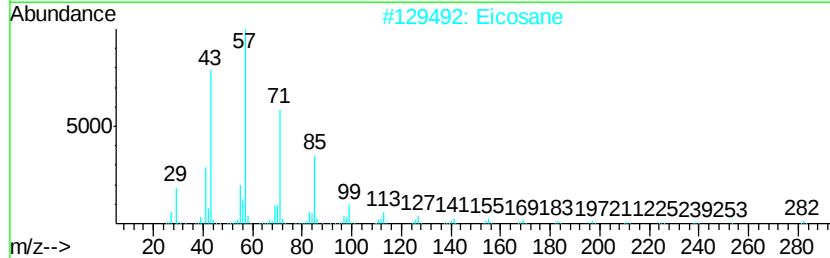
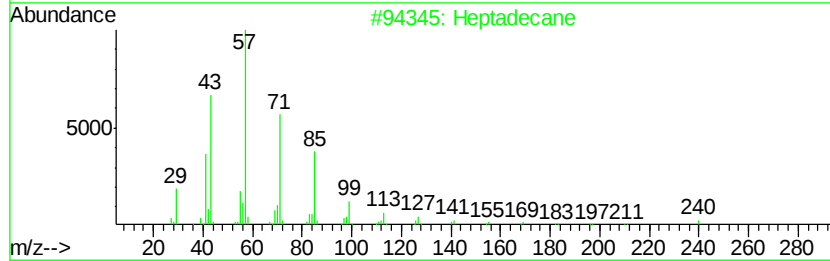
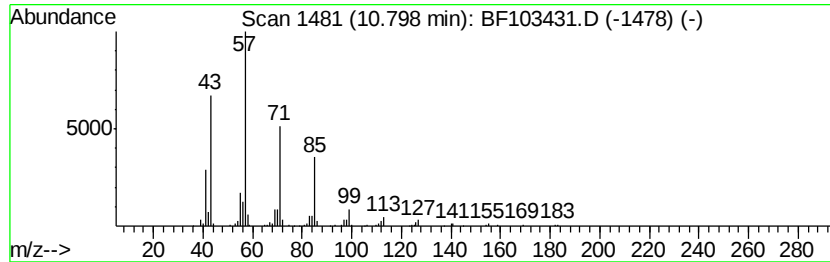
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TIC Integration Parameters: LSCINT.P

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Peak Number 7 Heptadecane Concentration Rank 13

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 10.80 | 6.04 ng | 249625 | Phenanthrene-d10 | 11.41 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | Heptadecane                         | 240 | C17H36    | 000629-78-7  | 90   |
| 2    |    | Eicosane                            | 282 | C20H42    | 000112-95-8  | 90   |
| 3    |    | Pentadecane                         | 212 | C15H32    | 000629-62-9  | 90   |
| 4    |    | Hexadecane                          | 226 | C16H34    | 000544-76-3  | 87   |
| 5    |    | Sulfurous acid, 2-ethylhexyl hex... | 278 | C14H30O3S | 1000309-20-2 | 80   |



Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF030518\  
Data File : BF103431.D  
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Operator : SJ/JU  
Sample : J1767-03  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

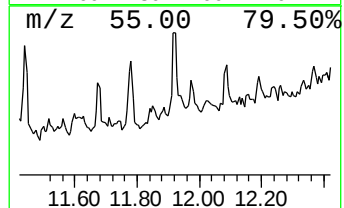
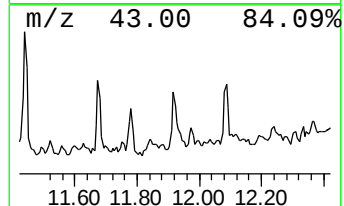
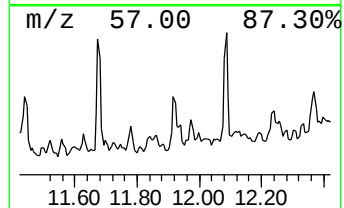
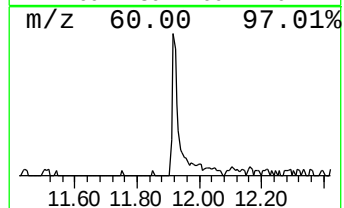
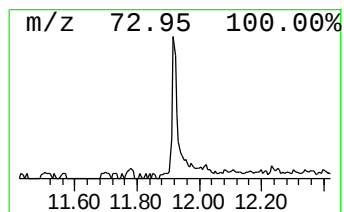
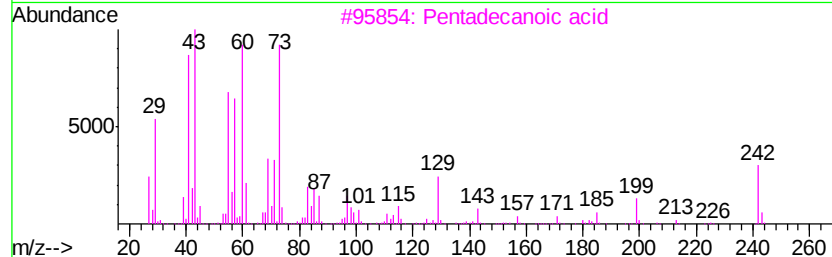
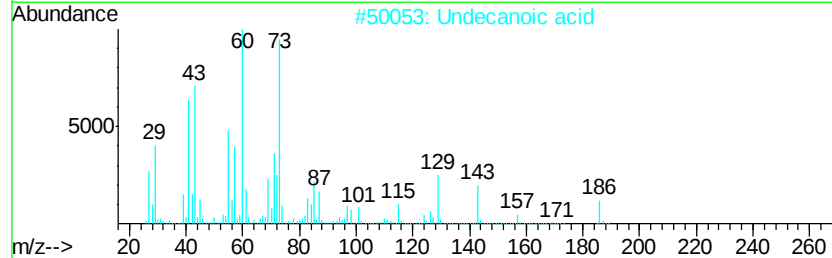
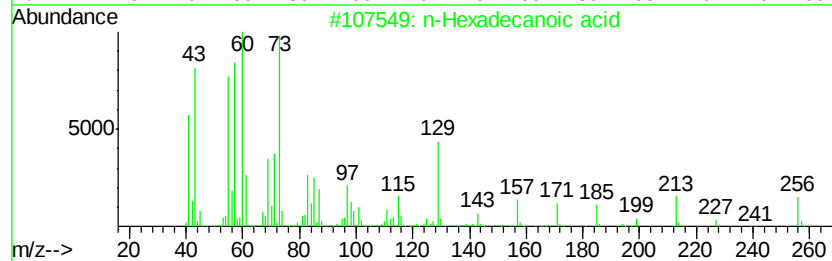
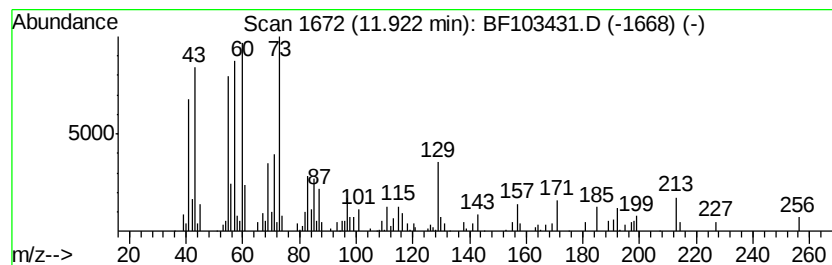
Instrument :  
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ClientSampleId :  
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 8 n-Hexadecanoic acid Concentration Rank 15

| R.T.    | EstConc | Area                | Relative to ISTD |          | R.T.        |      |
|---------|---------|---------------------|------------------|----------|-------------|------|
| 11.92   | 4.42 ng | 182587              | Phenanthrene-d10 |          | 11.41       |      |
| Hit# of | 5       | Tentative ID        | MW               | MolForm  | CAS#        | Qual |
| 1       |         | n-Hexadecanoic acid | 256              | C16H32O2 | 000057-10-3 | 98   |
| 2       |         | Undecanoic acid     | 186              | C11H22O2 | 000112-37-8 | 80   |
| 3       |         | Pentadecanoic acid  | 242              | C15H30O2 | 001002-84-2 | 74   |
| 4       |         | Tridecanoic acid    | 214              | C13H26O2 | 000638-53-9 | 72   |
| 5       |         | Tetradecanoic acid  | 228              | C14H28O2 | 000544-63-8 | 72   |



Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF030518\  
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Acq On : 6 Mar 2018 1:20  
Operator : SJ/JU  
Sample : J1767-03  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

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

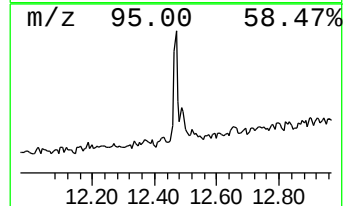
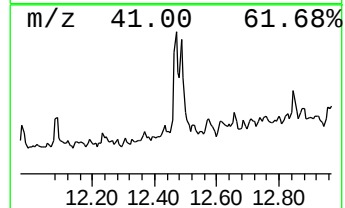
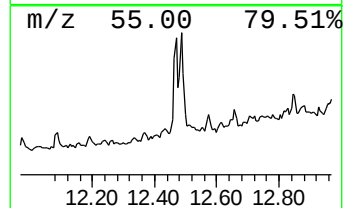
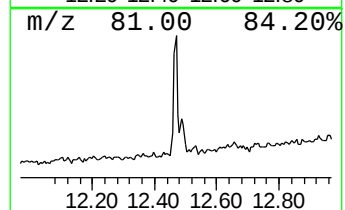
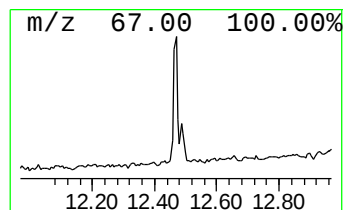
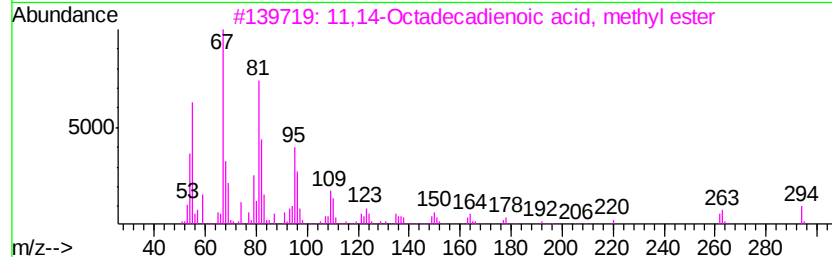
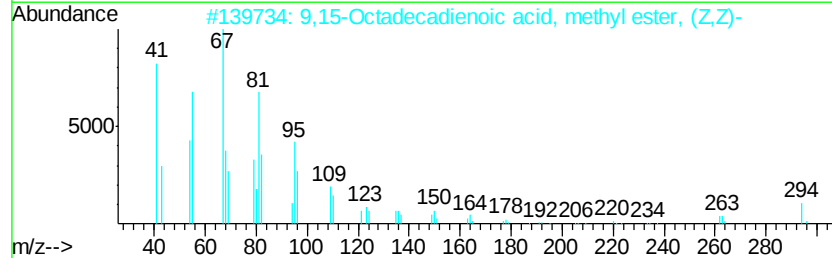
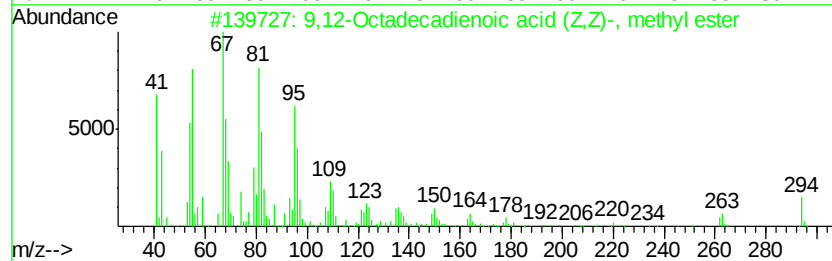
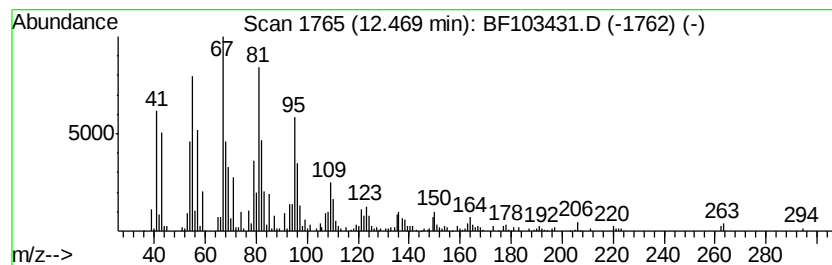
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TIC Integration Parameters: LSCINT.P

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Peak Number 9 9,12-Octadecadienoic acid (... Concentration Rank 9

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 12.47 | 8.44 ng | 348804 | Phenanthrene-d10 | 11.41 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | 9,12-Octadecadienoic acid (Z,Z)-... | 294 | C19H34O2 | 000112-63-0 | 97   |
| 2    |    | 9,15-Octadecadienoic acid, methy... | 294 | C19H34O2 | 017309-05-6 | 95   |
| 3    |    | 11,14-Octadecadienoic acid, meth... | 294 | C19H34O2 | 056554-61-1 | 94   |
| 4    |    | 9,12-Octadecadienoic acid, methy... | 294 | C19H34O2 | 002462-85-3 | 94   |
| 5    |    | 11-Octadecynoic acid, methyl ester  | 294 | C19H34O2 | 026543-37-3 | 93   |



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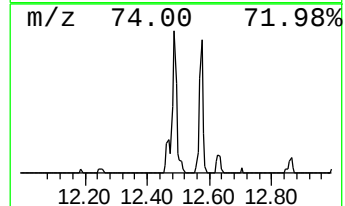
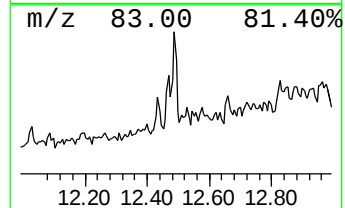
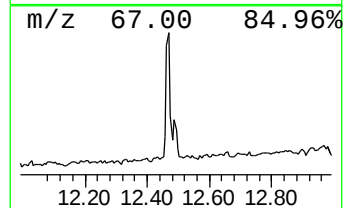
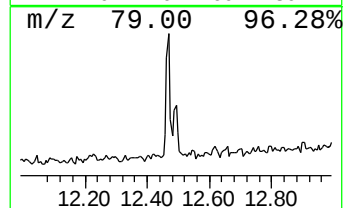
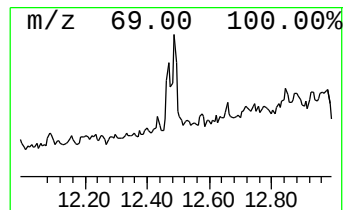
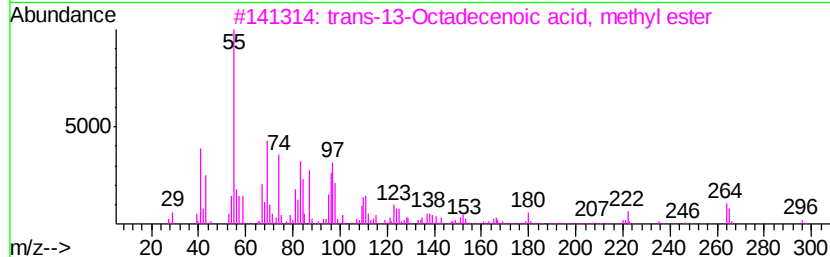
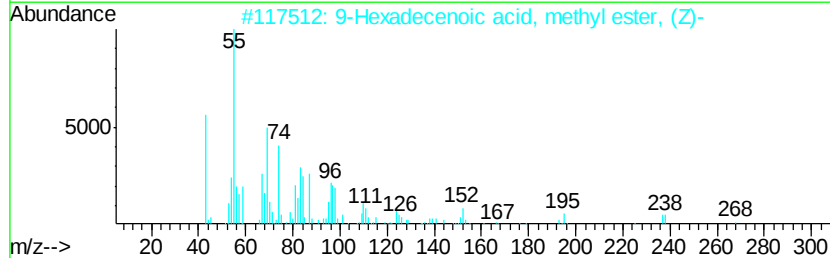
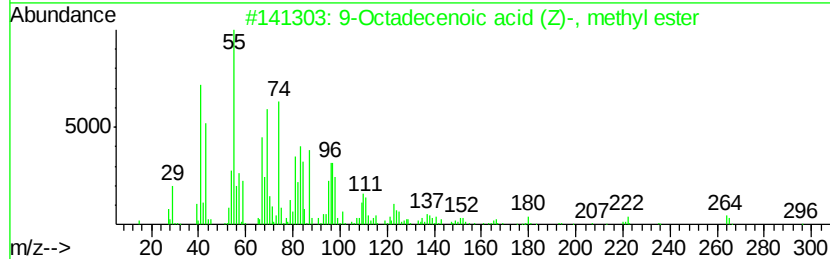
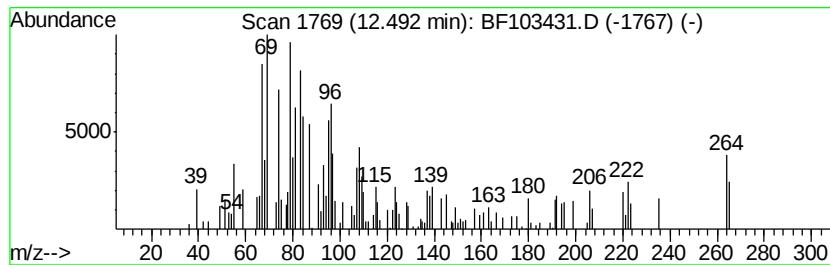
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ClientSampleId :  
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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF022218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 10 9-Octadecenoic acid (Z)-, m... Concentration Rank 16

| R.T.      | EstConc                             | Area   | Relative to ISTD | R.T.         |      |
|-----------|-------------------------------------|--------|------------------|--------------|------|
| 12.49     | 4.26 ng                             | 176142 | Phenanthrene-d10 | 11.41        |      |
| Hit# of 5 | Tentative ID                        | MW     | MolForm          | CAS#         | Qual |
| 1         | 9-Octadecenoic acid (Z)-, methyl... | 296    | C19H36O2         | 000112-62-9  | 90   |
| 2         | 9-Hexadecenoic acid, methyl este... | 268    | C17H32O2         | 001120-25-8  | 90   |
| 3         | trans-13-Octadecenoic acid, meth... | 296    | C19H36O2         | 1000333-61-3 | 86   |
| 4         | 14-Octadecenoic acid, methyl ester  | 296    | C19H36O2         | 056554-48-4  | 86   |
| 5         | 10-Octadecenoic acid, methyl ester  | 296    | C19H36O2         | 013481-95-3  | 86   |



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Data File : BF103431.D  
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Sample : J1767-03  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

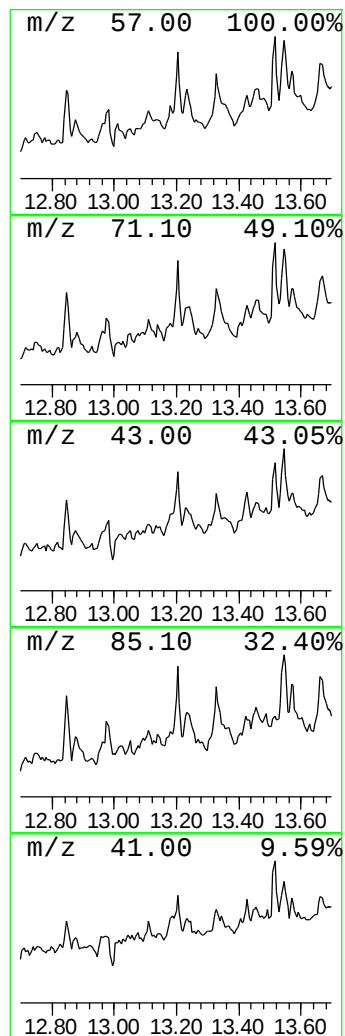
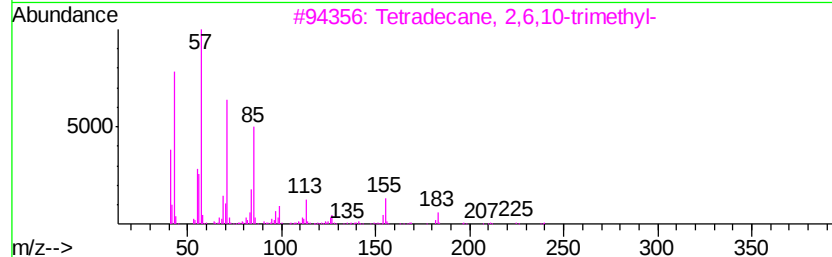
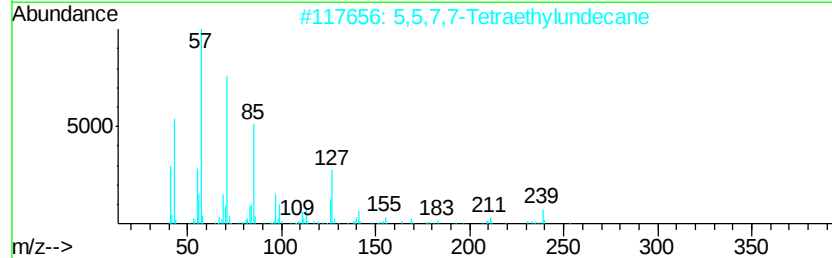
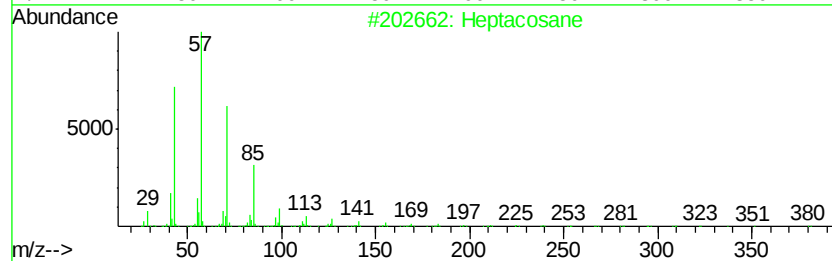
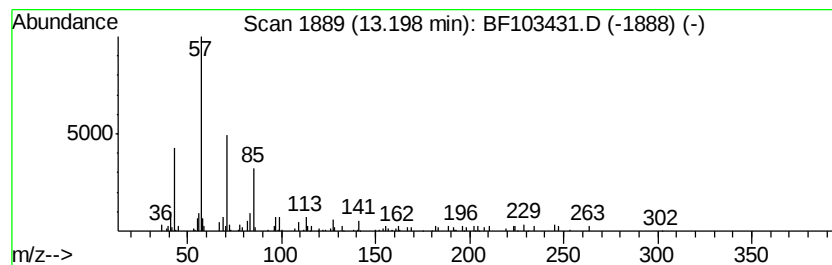
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ClientSampleId :  
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 11 Heptacosane Concentration Rank 19

| R.T.    | EstConc                        | Area         | Relative to ISTD | R.T.      |
|---------|--------------------------------|--------------|------------------|-----------|
| 13.20   | 3.02 ng                        | 90906        | Chrysene-d12     | 14.07     |
| Hit# of | 5                              | Tentative ID | MW MolForm       | CAS# Qual |
| 1       | Heptacosane                    | 380 C27H56   | 000593-49-7      | 80        |
| 2       | 5,5,7,7-Tetraethylundecane     | 268 C19H40   | 1000360-42-0     | 78        |
| 3       | Tetradecane, 2,6,10-trimethyl- | 240 C17H36   | 014905-56-7      | 72        |
| 4       | Eicosane                       | 282 C20H42   | 000112-95-8      | 72        |
| 5       | Tridecane, 1-iodo-             | 310 C13H27I  | 035599-77-0      | 72        |



Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF030518\  
Data File : BF103431.D  
Acq On : 6 Mar 2018 1:20  
Operator : SJ/JU  
Sample : J1767-03  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
RO-72-11998

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF022218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

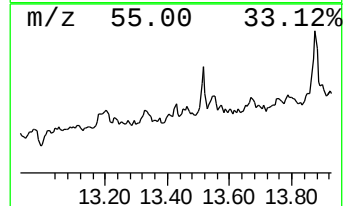
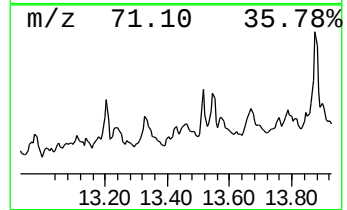
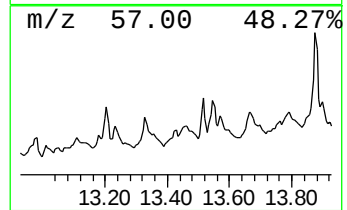
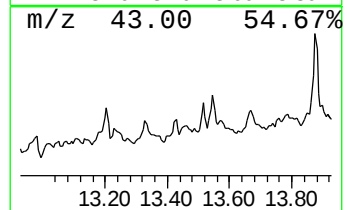
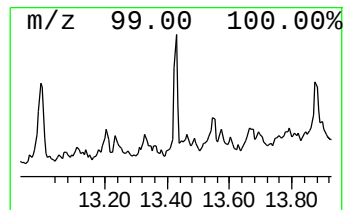
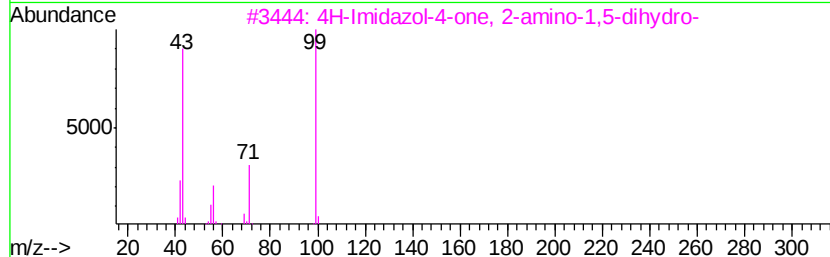
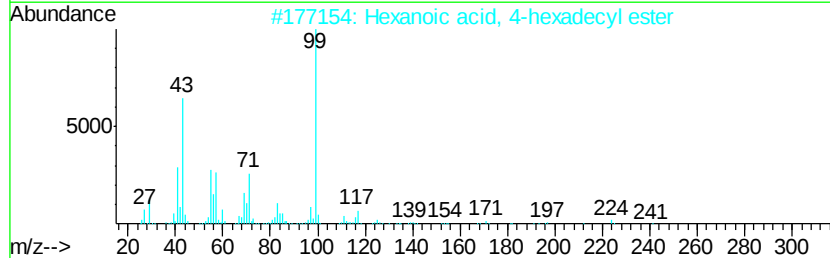
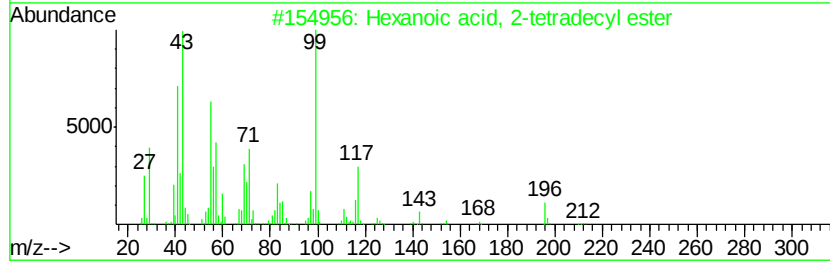
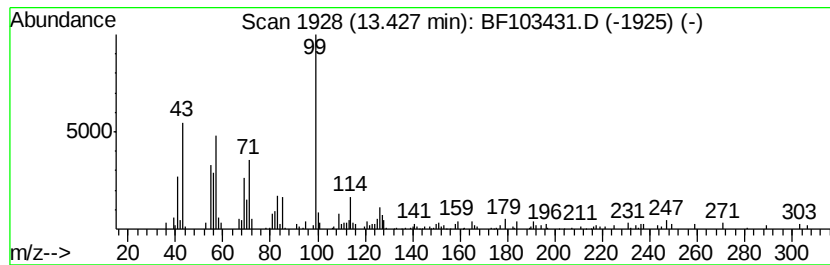
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 12 Hexanoic acid, 2-tetradecyl... Concentration Rank 20

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 13.43 | 2.45 ng | 73940 | Chrysene-d12     | 14.07 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|----------|--------------|------|
| 1    |    |   | Hexanoic acid, 2-tetradecyl ester   | 312 | C20H40O2 | 055193-21-0  | 64   |
| 2    |    |   | Hexanoic acid, 4-hexadecyl ester    | 340 | C22H44O2 | 1000282-83-8 | 59   |
| 3    |    |   | 4H-Imidazol-4-one, 2-amino-1,5-d... | 99  | C3H5N3O  | 000503-86-6  | 47   |
| 4    |    |   | cis-4-Hydroxy-3-methyldecanoic a... | 184 | C11H20O2 | 147254-32-8  | 47   |
| 5    |    |   | Pentanoic acid, 2-methyl-, anhyd... | 214 | C12H22O3 | 063169-61-9  | 47   |



Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF030518\  
Data File : BF103431.D  
Acq On : 6 Mar 2018 1:20  
Operator : SJ/JU  
Sample : J1767-03  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

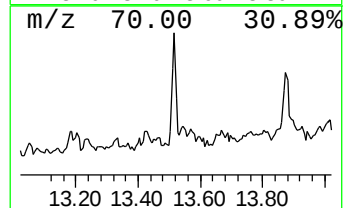
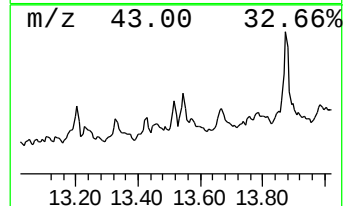
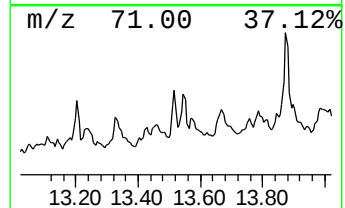
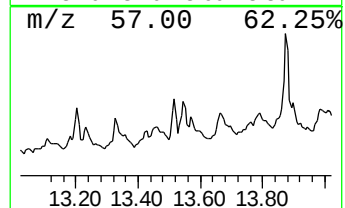
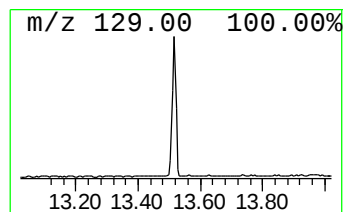
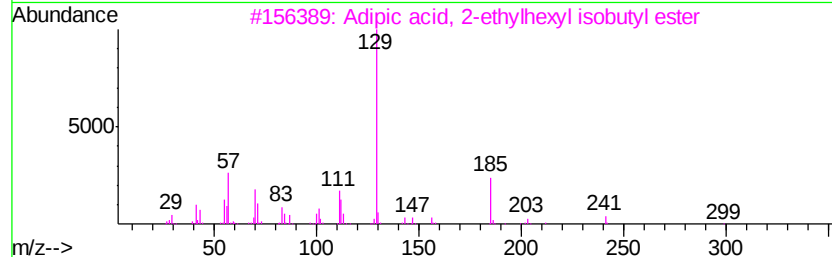
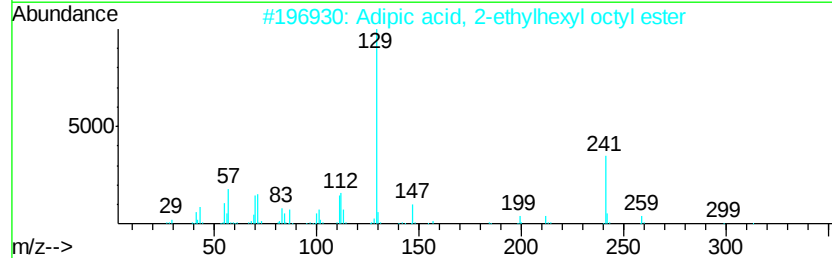
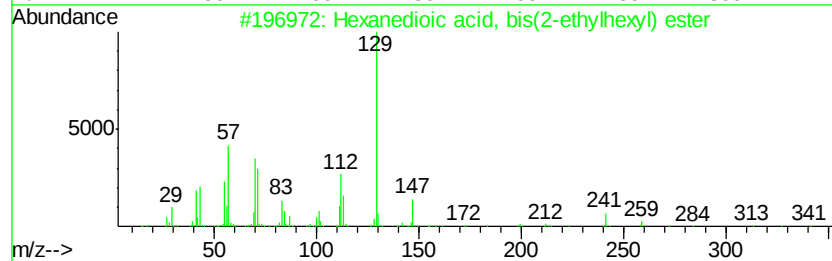
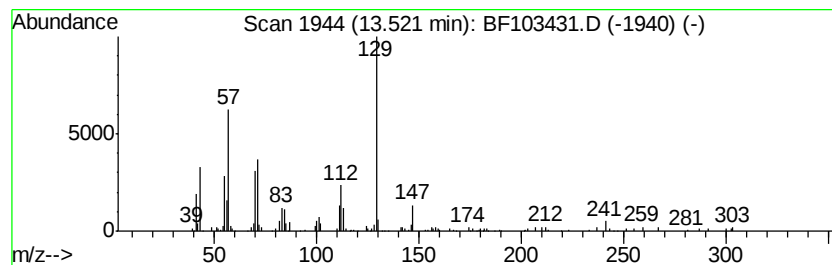
Instrument :  
BNA\_F  
ClientSampleId :  
RO-72-11998

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF022218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 13 Hexanedioic acid, bis(2-eth... Concentration Rank 12

| R.T.    | EstConc | Area                                | Relative to ISTD | R.T.            |
|---------|---------|-------------------------------------|------------------|-----------------|
| 13.52   | 6.31 ng | 190207                              | Chrysene-d12     | 14.07           |
| Hit# of | 5       | Tentative ID                        | MW MolForm       | CAS# Qual       |
| 1       |         | Hexanedioic acid, bis(2-ethylhex... | 370 C22H42O4     | 000103-23-1 83  |
| 2       |         | Adipic acid, 2-ethylhexyl octyl ... | 370 C22H42O4     | 1000324-48-6 64 |
| 3       |         | Adipic acid, 2-ethylhexyl isobut... | 314 C18H34O4     | 1000324-48-0 50 |
| 4       |         | Adipic acid, 2-ethylhexyl isohex... | 342 C20H38O4     | 1000324-48-3 50 |
| 5       |         | Hexanedioic acid, dioctyl ester     | 370 C22H42O4     | 000123-79-5 49  |



Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF030518\  
Data File : BF103431.D  
Acq On : 6 Mar 2018 1:20  
Operator : SJ/JU  
Sample : J1767-03  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

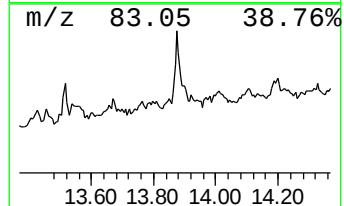
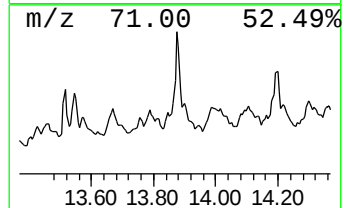
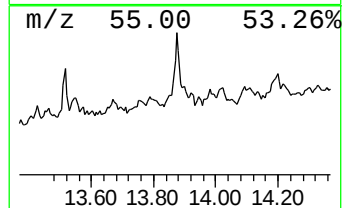
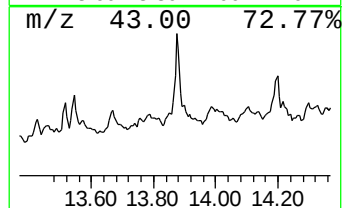
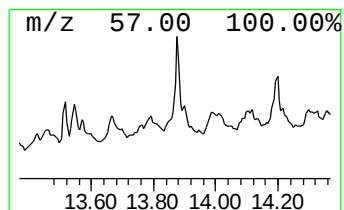
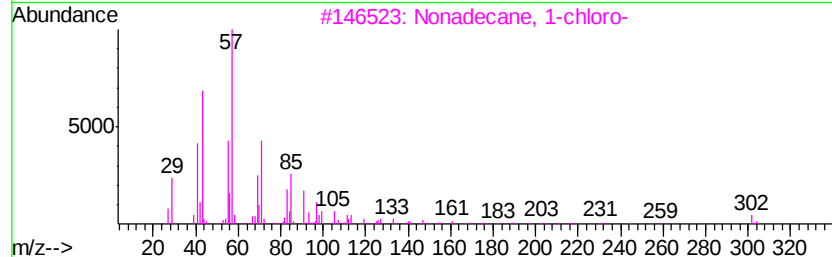
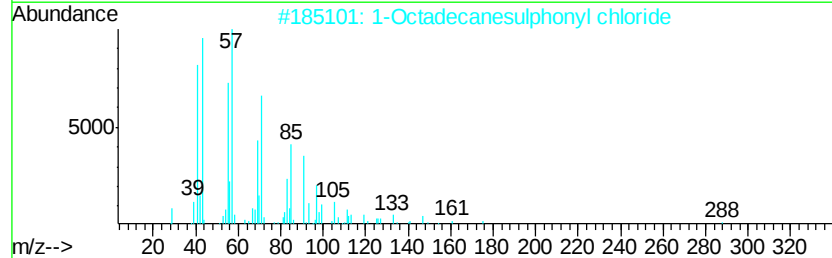
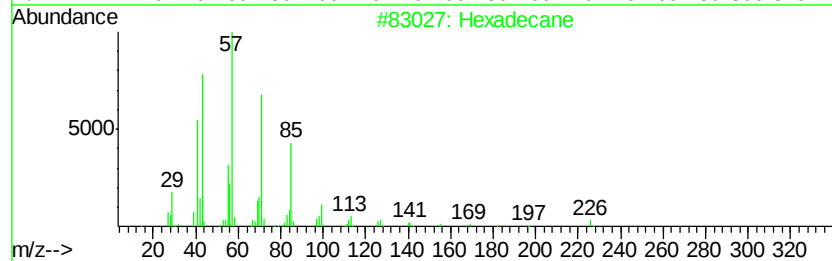
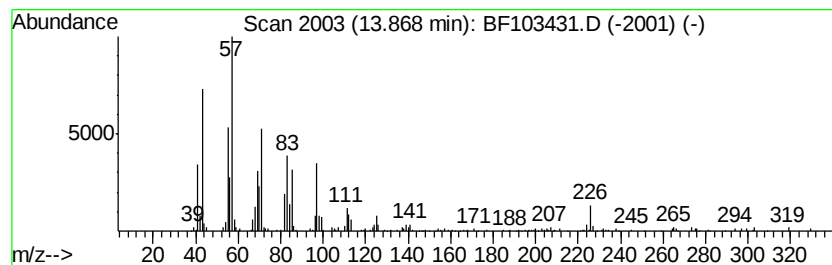
Instrument :  
BNA\_F  
ClientSampleId :  
RO-72-11998

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF022218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 15 Hexadecane Concentration Rank 7

| R.T.    | EstConc                        | Area         | Relative to ISTD | R.T.            |
|---------|--------------------------------|--------------|------------------|-----------------|
| 13.87   | 11.21 ng                       | 337748       | Chrysene-d12     | 14.07           |
| Hit# of | 5                              | Tentative ID | MW MolForm       | CAS# Qual       |
| 1       | Hexadecane                     |              | 226 C16H34       | 000544-76-3 93  |
| 2       | 1-Octadecanesulphonyl chloride |              | 352 C18H37ClO2S  | 1000342-70-4 83 |
| 3       | Nonadecane, 1-chloro-          |              | 302 C19H39Cl     | 062016-76-6 81  |
| 4       | Tetradecane, 1-chloro-         |              | 232 C14H29Cl     | 002425-54-9 64  |
| 5       | Tridecane                      |              | 184 C13H28       | 000629-50-5 64  |



Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF030518\  
Data File : BF103431.D  
Acq On : 6 Mar 2018 1:20  
Operator : SJ/JU  
Sample : J1767-03  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

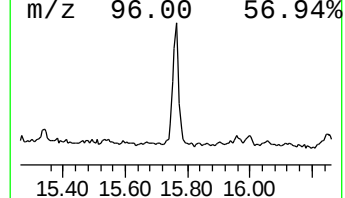
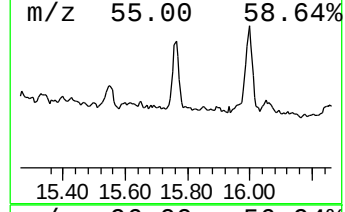
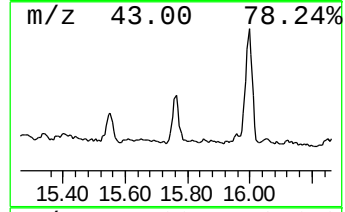
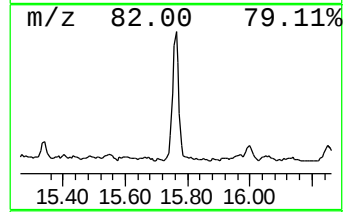
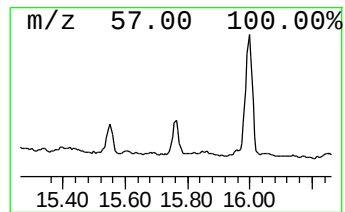
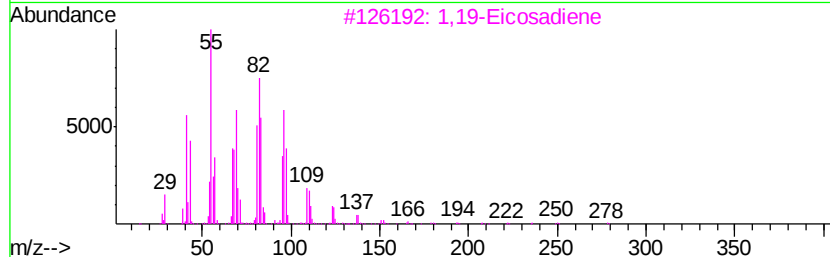
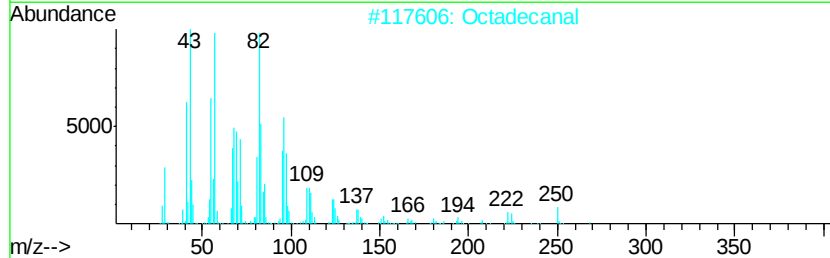
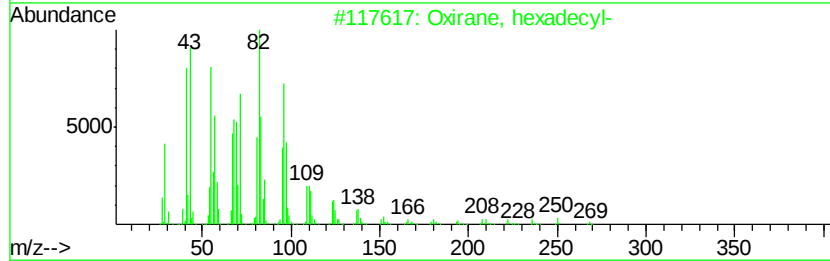
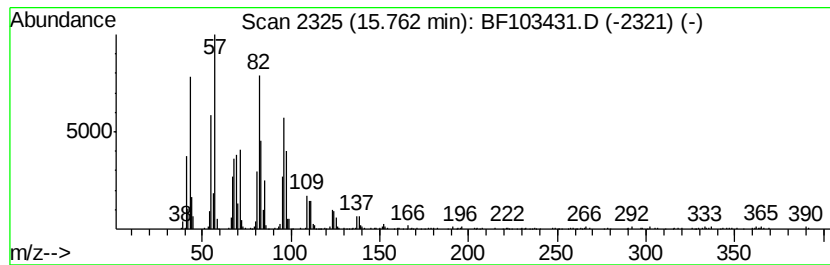
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ClientSampleId :  
RO-72-11998

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF022218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 18 Oxirane, hexadecyl- Concentration Rank 5

| R.T.      | EstConc              | Area   | Relative to ISTD | R.T.        |      |
|-----------|----------------------|--------|------------------|-------------|------|
| 15.76     | 28.40 ng             | 584151 | Perylene-d12     | 15.59       |      |
| Hit# of 5 | Tentative ID         | MW     | MolForm          | CAS#        | Qual |
| 1         | Oxirane, hexadecyl-  | 268    | C18H36O          | 007390-81-0 | 95   |
| 2         | Octadecanal          | 268    | C18H36O          | 000638-66-4 | 93   |
| 3         | 1,19-Eicosadiene     | 278    | C20H38           | 014811-95-1 | 92   |
| 4         | Oxirane, heptadecyl- | 282    | C19H38O          | 067860-04-2 | 90   |
| 5         | Tetracosanal         | 352    | C24H48O          | 057866-08-7 | 72   |



Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF030518\  
 Data File : BF103431.D  
 Acq On : 6 Mar 2018 1:20  
 Operator : SJ/JU  
 Sample : J1767-03  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 RO-72-11998

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF022218.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

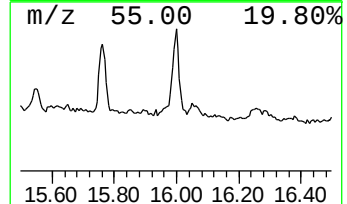
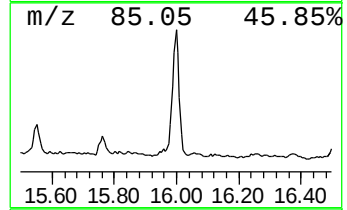
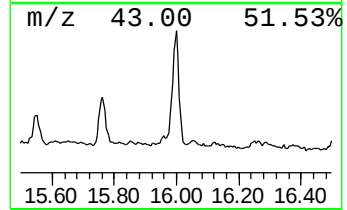
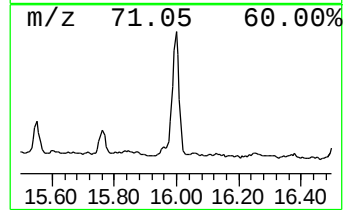
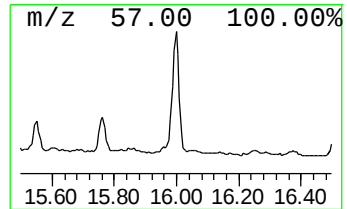
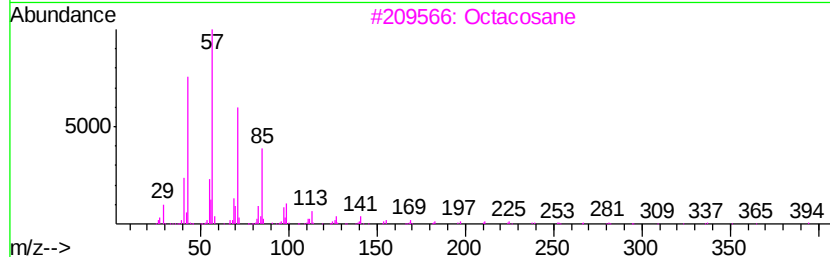
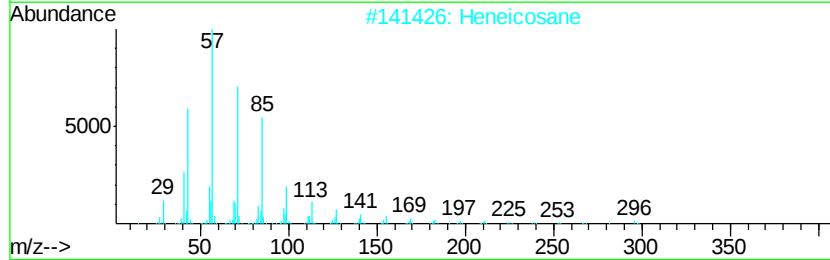
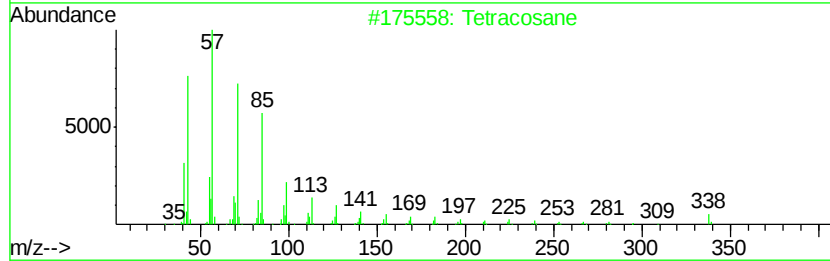
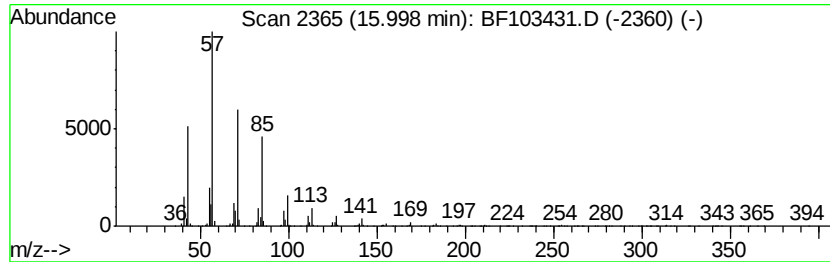
TIC Library : C:\DATABASE\NIST11.L  
 TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
 Peak Number 19 Tetracosane Concentration Rank 3

| R.T.  | EstConc  | Area    | Relative to ISTD | R.T.  |
|-------|----------|---------|------------------|-------|
| 16.00 | 49.74 ng | 1023070 | Perylene-d12     | 15.59 |

| Hit# | of | Tentative ID          | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------|-----|---------|-------------|------|
| 1    | 5  | Tetracosane           | 338 | C24H50  | 000646-31-1 | 90   |
| 2    |    | Heneicosane           | 296 | C21H44  | 000629-94-7 | 87   |
| 3    |    | Octacosane            | 394 | C28H58  | 000630-02-4 | 86   |
| 4    |    | Eicosane              | 282 | C20H42  | 000112-95-8 | 86   |
| 5    |    | Nonadecane, 2-methyl- | 282 | C20H42  | 001560-86-7 | 86   |



Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF030518\  
Data File : BF103431.D  
Acq On : 6 Mar 2018 1:20  
Operator : SJ/JU  
Sample : J1767-03  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
RO-72-11998

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF022218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

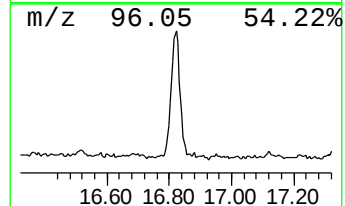
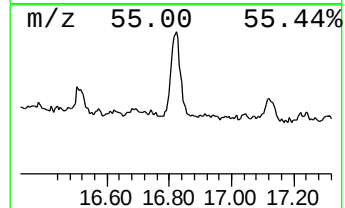
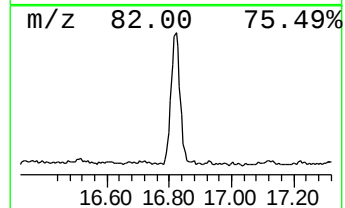
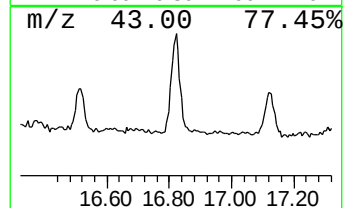
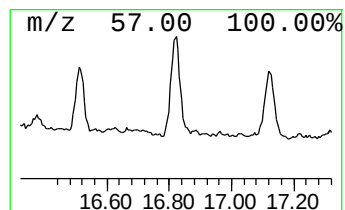
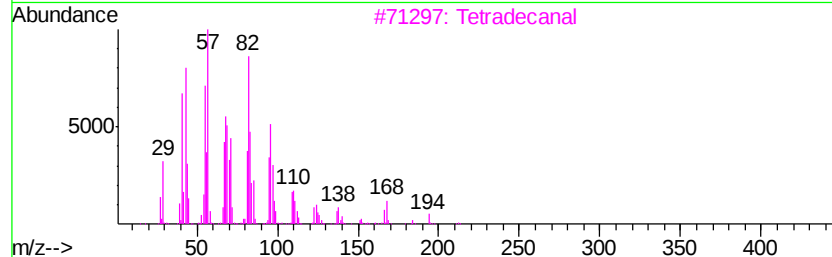
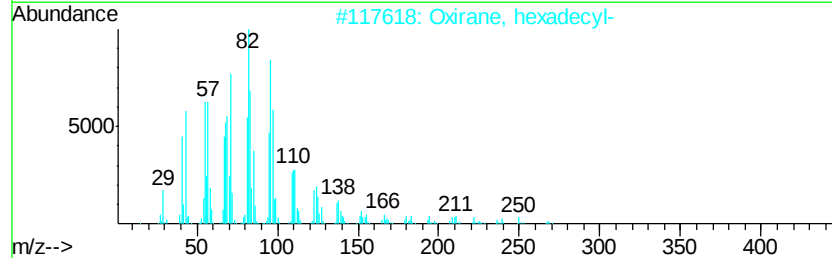
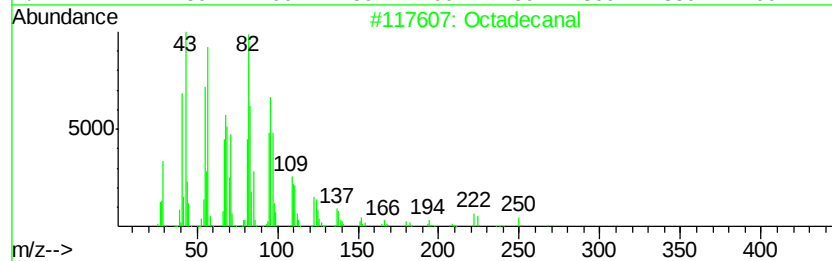
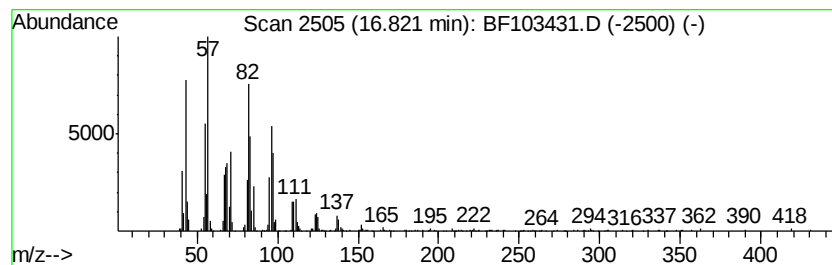
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 20 Octadecanal Concentration Rank 4

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 16.82 | 42.57 ng | 875595 | Perylene-d12     | 15.59 |

| Hit# | of | Tentative ID         | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------|-----|---------|-------------|------|
| 1    | 5  | Octadecanal          | 268 | C18H36O | 000638-66-4 | 91   |
| 2    |    | Oxirane, hexadecyl-  | 268 | C18H36O | 007390-81-0 | 91   |
| 3    |    | Tetradecanal         | 212 | C14H28O | 000124-25-4 | 90   |
| 4    |    | 13-Octadecenal       | 266 | C18H34O | 056554-90-6 | 90   |
| 5    |    | Oxirane, heptadecyl- | 282 | C19H38O | 067860-04-2 | 87   |



Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA\_F\DATA\BF030518\  
 Data File : BF103431.D  
 Acq On : 6 Mar 2018 1:20  
 Operator : SJ/JU  
 Sample : J1767-03  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 RO-72-11998

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF022218.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |        |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|--------|------|
|                      |       |         |       |          | #                     | RT    | Resp   | Conc |
| Butane, 2-methoxy... | 2.14  | 7.7     | ng    | 311511   | 1                     | 6.87  | 811265 | 20.0 |
| 2-Pentanone, 4-hy... | 5.10  | 7.3     | ng    | 298256   | 1                     | 6.87  | 811265 | 20.0 |
| unknown6.65          | 6.65  | 80.7    | ng    | 3273720  | 1                     | 6.87  | 811265 | 20.0 |
| Tetradecane          | 10.33 | 3.5     | ng    | 162163   | 3                     | 9.92  | 931630 | 20.0 |
| Benzophenone         | 10.63 | 4.6     | ng    | 216225   | 3                     | 9.92  | 931630 | 20.0 |
| Heptadecane          | 10.80 | 6.0     | ng    | 249625   | 4                     | 11.41 | 826956 | 20.0 |
| n-Hexadecanoic acid  | 11.92 | 4.4     | ng    | 182587   | 4                     | 11.41 | 826956 | 20.0 |
| 9,12-Octadecadien... | 12.47 | 8.4     | ng    | 348804   | 4                     | 11.41 | 826956 | 20.0 |
| 9-Octadecenoic ac... | 12.49 | 4.3     | ng    | 176142   | 4                     | 11.41 | 826956 | 20.0 |
| Heptacosane          | 13.20 | 3.0     | ng    | 90906    | 5                     | 14.07 | 602426 | 20.0 |
| Hexanoic acid, 2-... | 13.43 | 2.5     | ng    | 73940    | 5                     | 14.07 | 602426 | 20.0 |
| Hexanedioic acid,... | 13.52 | 6.3     | ng    | 190207   | 5                     | 14.07 | 602426 | 20.0 |
| Hexadecane           | 13.87 | 11.2    | ng    | 337748   | 5                     | 14.07 | 602426 | 20.0 |
| Oxirane, hexadecyl-  | 15.76 | 28.4    | ng    | 584151   | 6                     | 15.59 | 411404 | 20.0 |
| Tetracosane          | 16.00 | 49.7    | ng    | 1023070  | 6                     | 15.59 | 411404 | 20.0 |
| Octadecanal          | 16.82 | 42.6    | ng    | 875595   | 6                     | 15.59 | 411404 | 20.0 |