

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF021319\  
 Data File : BF112533.D  
 Acq On : 13 Feb 2019 12:32  
 Operator : JU/SJ  
 Sample : K1343-13 2X  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 JC-02-021119-G

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-BF012519.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         | 5.469       | 572           | 575         | 596          | rBV      | 786286         | 956302        | 9.26%           | 1.727%        |
| 2         | 6.481       | 744           | 747         | 760          | rBV      | 798838         | 1021395       | 9.89%           | 1.845%        |
| 3         | 6.610       | 766           | 769         | 775          | rBV      | 1215919        | 1083961       | 10.50%          | 1.958%        |
| 4         | 6.669       | 775           | 779         | 786          | rVB2     | 100759         | 110738        | 1.07%           | 0.200%        |
| 5         | 6.833       | 804           | 807         | 814          | rVB      | 642625         | 550017        | 5.33%           | 0.993%        |
| 6         | 6.992       | 829           | 834         | 843          | rBV      | 923904         | 895829        | 8.67%           | 1.618%        |
| 7         | 7.398       | 900           | 903         | 906          | rBV      | 630260         | 599485        | 5.80%           | 1.083%        |
| 8         | 7.428       | 906           | 908         | 912          | rVB      | 313527         | 239990        | 2.32%           | 0.433%        |
| 9         | 7.863       | 978           | 982         | 987          | rVB5     | 108150         | 160812        | 1.56%           | 0.290%        |
| 10        | 8.092       | 1019          | 1021        | 1023         | rVV      | 561919         | 520249        | 5.04%           | 0.940%        |
| 11        | 8.116       | 1023          | 1025        | 1031         | rVV      | 778476         | 799590        | 7.74%           | 1.444%        |
| 12        | 8.175       | 1031          | 1035        | 1037         | rVB2     | 184055         | 218160        | 2.11%           | 0.394%        |
| 13        | 8.404       | 1069          | 1074        | 1081         | rBV6     | 178192         | 252386        | 2.44%           | 0.456%        |
| 14        | 8.492       | 1086          | 1089        | 1092         | rBV4     | 113958         | 148697        | 1.44%           | 0.269%        |
| 15        | 8.533       | 1092          | 1096        | 1098         | rBV2     | 213416         | 185348        | 1.79%           | 0.335%        |
| 16        | 8.616       | 1107          | 1110        | 1113         | rBV      | 218465         | 212845        | 2.06%           | 0.384%        |
| 17        | 8.704       | 1122          | 1125        | 1129         | rBV      | 800505         | 651174        | 6.30%           | 1.176%        |
| 18        | 8.798       | 1139          | 1141        | 1144         | rVB3     | 95042          | 107505        | 1.04%           | 0.194%        |
| 19        | 8.939       | 1162          | 1165        | 1167         | rBV      | 213054         | 197808        | 1.92%           | 0.357%        |
| 20        | 9.063       | 1183          | 1186        | 1191         | rVB3     | 151647         | 208711        | 2.02%           | 0.377%        |
| 21        | 9.133       | 1196          | 1198        | 1200         | rVV      | 250998         | 200196        | 1.94%           | 0.362%        |
| 22        | 9.186       | 1204          | 1207        | 1212         | rBV      | 1354375        | 1188256       | 11.51%          | 2.146%        |
| 23        | 9.269       | 1217          | 1221        | 1224         | rBV      | 958768         | 798434        | 7.73%           | 1.442%        |
| 24        | 9.339       | 1231          | 1233        | 1236         | rVB      | 163129         | 142695        | 1.38%           | 0.258%        |
| 25        | 9.527       | 1258          | 1265        | 1266         | rBV6     | 153530         | 246389        | 2.39%           | 0.445%        |
| 26        | 9.545       | 1266          | 1268        | 1271         | rVV2     | 138143         | 150257        | 1.45%           | 0.271%        |
| 27        | 9.586       | 1271          | 1275        | 1277         | rVV4     | 378020         | 474260        | 4.59%           | 0.857%        |
| 28        | 9.610       | 1277          | 1279        | 1282         | rVV3     | 160778         | 182661        | 1.77%           | 0.330%        |
| 29        | 9.645       | 1282          | 1285        | 1288         | rVB2     | 162140         | 154947        | 1.50%           | 0.280%        |
| 30        | 9.798       | 1308          | 1311        | 1314         | rVB      | 904839         | 675537        | 6.54%           | 1.220%        |
| 31        | 9.874       | 1320          | 1324        | 1327         | rVB      | 769604         | 696952        | 6.75%           | 1.259%        |
| 32        | 10.027      | 1347          | 1350        | 1353         | rBV2     | 97757          | 146125        | 1.41%           | 0.264%        |
| 33        | 10.080      | 1357          | 1359        | 1362         | rVB2     | 110081         | 105062        | 1.02%           | 0.190%        |
| 34        | 10.116      | 1362          | 1365        | 1369         | rBV3     | 196232         | 254751        | 2.47%           | 0.460%        |

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Instrument :  
 BNA\_F  
 ClientSampleId :  
 JC-02-021119-G

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-BF012519.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |          |         |         |
|----|--------|------|------|------|------|---------|----------|---------|---------|
| 35 | 10.192 | 1374 | 1378 | 1381 | rBV5 | 87837   | 144282   | 1.40%   | 0.261%  |
| 36 | 10.298 | 1390 | 1396 | 1399 | rBV  | 861434  | 797816   | 7.72%   | 1.441%  |
| 37 | 10.351 | 1403 | 1405 | 1410 | rVB5 | 89096   | 119758   | 1.16%   | 0.216%  |
| 38 | 10.516 | 1428 | 1433 | 1436 | rBV  | 256932  | 315704   | 3.06%   | 0.570%  |
| 39 | 10.669 | 1456 | 1459 | 1469 | rBV  | 647788  | 716149   | 6.93%   | 1.293%  |
| 40 | 10.769 | 1473 | 1476 | 1485 | rVB  | 817927  | 883493   | 8.55%   | 1.596%  |
| 41 | 11.216 | 1549 | 1552 | 1555 | rBV  | 675076  | 526331   | 5.10%   | 0.951%  |
| 42 | 11.245 | 1555 | 1557 | 1563 | rVB2 | 258988  | 290653   | 2.81%   | 0.525%  |
| 43 | 11.363 | 1573 | 1577 | 1579 | rBV  | 756602  | 653755   | 6.33%   | 1.181%  |
| 44 | 11.386 | 1579 | 1581 | 1587 | rVB  | 225364  | 252350   | 2.44%   | 0.456%  |
| 45 | 11.645 | 1621 | 1625 | 1627 | rBV  | 513545  | 430678   | 4.17%   | 0.778%  |
| 46 | 11.745 | 1638 | 1642 | 1645 | rVB  | 4153201 | 3341652  | 32.36%  | 6.035%  |
| 47 | 11.886 | 1661 | 1666 | 1673 | rBV2 | 481410  | 597904   | 5.79%   | 1.080%  |
| 48 | 12.051 | 1690 | 1694 | 1699 | rVB  | 427156  | 403893   | 3.91%   | 0.729%  |
| 49 | 12.439 | 1754 | 1760 | 1762 | rBV  | 7664855 | 10327988 | 100.00% | 18.652% |
| 50 | 12.463 | 1762 | 1764 | 1769 | rVV  | 8729658 | 9855861  | 95.43%  | 17.800% |
| 51 | 12.504 | 1769 | 1771 | 1773 | rVB  | 151175  | 115735   | 1.12%   | 0.209%  |
| 52 | 12.533 | 1773 | 1776 | 1780 | rVB  | 1605746 | 1410776  | 13.66%  | 2.548%  |
| 53 | 12.592 | 1780 | 1786 | 1789 | rBV3 | 437506  | 823840   | 7.98%   | 1.488%  |
| 54 | 12.674 | 1796 | 1800 | 1804 | rVB  | 560371  | 584767   | 5.66%   | 1.056%  |
| 55 | 12.768 | 1813 | 1816 | 1819 | rVV  | 363973  | 335773   | 3.25%   | 0.606%  |
| 56 | 12.810 | 1820 | 1823 | 1830 | rVB2 | 472661  | 522120   | 5.06%   | 0.943%  |
| 57 | 12.945 | 1842 | 1846 | 1849 | rBV  | 1119431 | 959573   | 9.29%   | 1.733%  |
| 58 | 13.092 | 1868 | 1871 | 1873 | rBV  | 317446  | 265113   | 2.57%   | 0.479%  |
| 59 | 13.162 | 1881 | 1883 | 1885 | rBV  | 262298  | 259331   | 2.51%   | 0.468%  |
| 60 | 13.257 | 1896 | 1899 | 1904 | rVB2 | 287331  | 257084   | 2.49%   | 0.464%  |
| 61 | 13.504 | 1938 | 1941 | 1944 | rBV  | 189096  | 183517   | 1.78%   | 0.331%  |
| 62 | 13.833 | 1994 | 1997 | 2001 | rVB  | 223152  | 188143   | 1.82%   | 0.340%  |
| 63 | 13.927 | 2010 | 2013 | 2019 | rBV  | 185846  | 210051   | 2.03%   | 0.379%  |
| 64 | 14.009 | 2023 | 2027 | 2030 | rBV2 | 734197  | 756048   | 7.32%   | 1.365%  |
| 65 | 14.151 | 2048 | 2051 | 2054 | rBV  | 254077  | 228701   | 2.21%   | 0.413%  |
| 66 | 14.457 | 2097 | 2103 | 2106 | rBV2 | 406583  | 633599   | 6.13%   | 1.144%  |
| 67 | 14.545 | 2116 | 2118 | 2122 | rBV  | 107789  | 105850   | 1.02%   | 0.191%  |
| 68 | 14.756 | 2151 | 2154 | 2158 | rBV  | 355448  | 365704   | 3.54%   | 0.660%  |
| 69 | 14.880 | 2170 | 2175 | 2182 | rBV  | 449350  | 686663   | 6.65%   | 1.240%  |
| 70 | 15.092 | 2208 | 2211 | 2222 | rVB  | 535157  | 689491   | 6.68%   | 1.245%  |
| 71 | 15.474 | 2272 | 2276 | 2277 | rBV  | 447356  | 570048   | 5.52%   | 1.030%  |

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Sample : K1343-13 2X  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
JC-02-021119-G

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-BF012519.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |     |        |        |       |        |
|----|--------|------|------|------|-----|--------|--------|-------|--------|
| 72 | 15.903 | 2345 | 2349 | 2354 | rVB | 399939 | 569117 | 5.51% | 1.028% |
| 73 | 16.403 | 2430 | 2434 | 2441 | rVB | 273817 | 454412 | 4.40% | 0.821% |

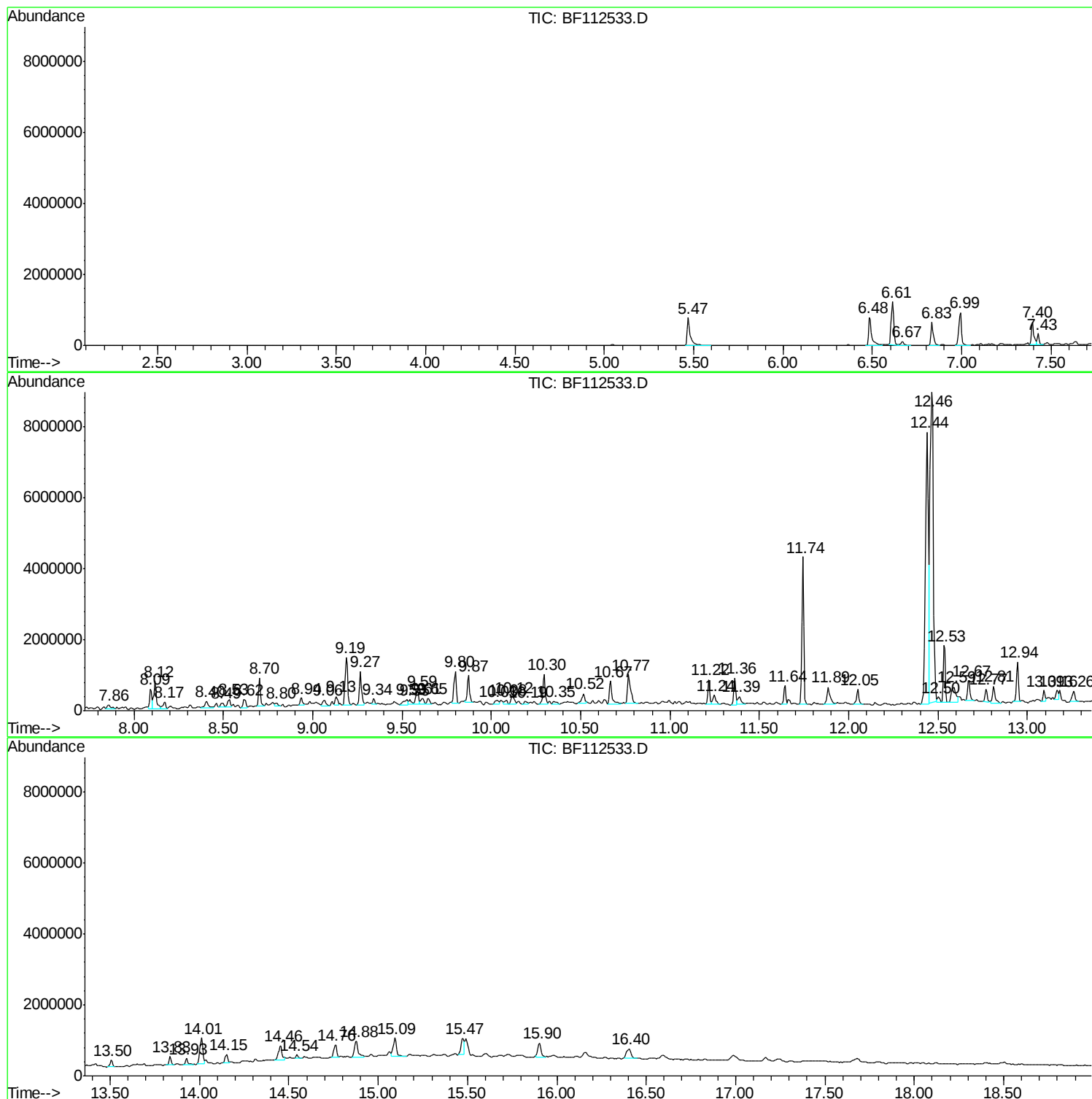
Sum of corrected areas: 55371247

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021319\  
Data File : BF112533.D  
Acq On : 13 Feb 2019 12:32  
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Sample : K1343-13 2X  
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ALS Vial : 7 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
JC-02-021119-G

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF012519.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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Instrument :  
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ClientSampleId :  
JC-02-021119-G

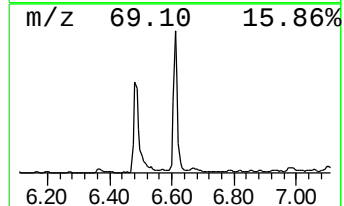
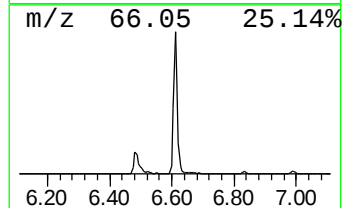
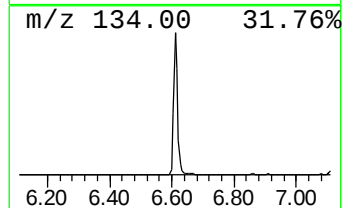
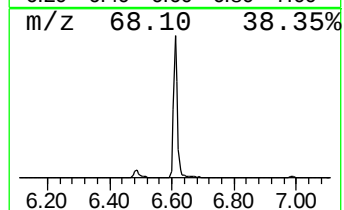
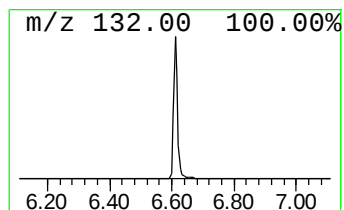
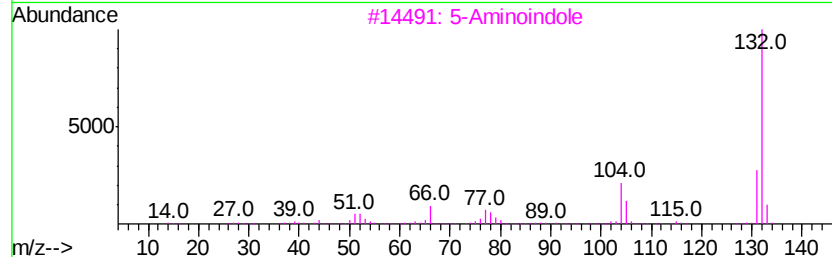
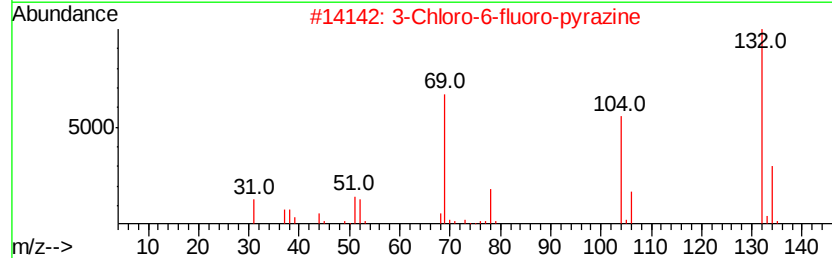
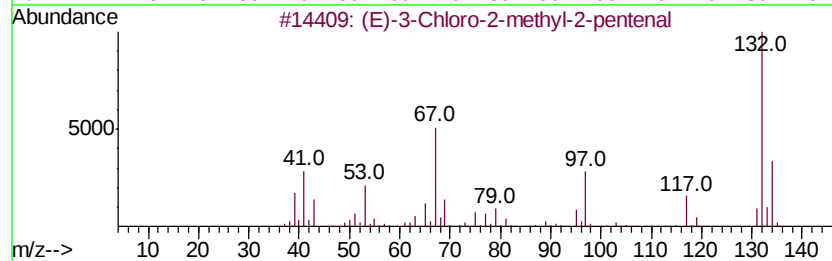
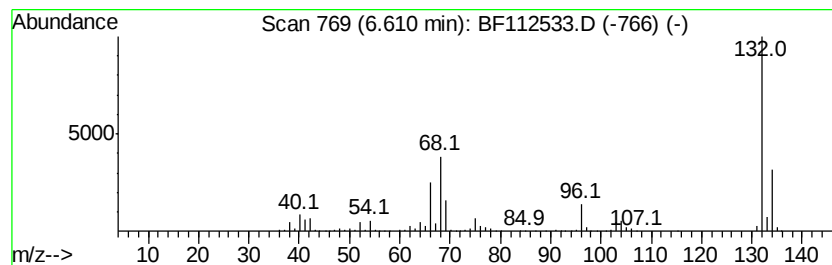
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF012519.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 1 unknown6.61 Concentration Rank 4

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.61 | 39.42 ng | 1083960 | 1,4-Dichlorobenzene-d4 | 6.83 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | (E)-3-Chloro-2-methyl-2-pentenal    | 132 | C6H9ClO   | 031357-76-3  | 17   |
| 2    |    | 3-Chloro-6-fluoro-pyrazine          | 132 | C4H2ClFN2 | 1000146-10-7 | 16   |
| 3    |    | 5-Aminoindole                       | 132 | C8H8N2    | 005192-03-0  | 12   |
| 4    |    | Tranylcypromine-propionyl           | 189 | C12H15NO  | 1000123-86-3 | 10   |
| 5    |    | Bicyclo[4.2.0]octa-1,3,5-triene,... | 132 | C10H12    | 028749-81-7  | 9    |



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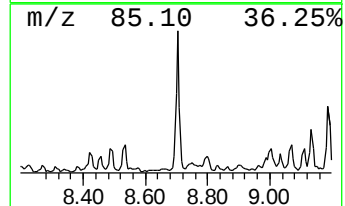
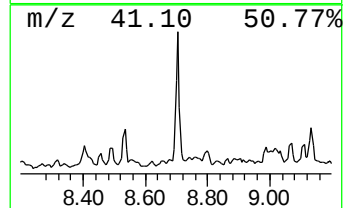
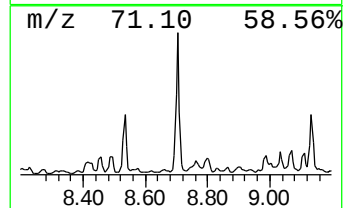
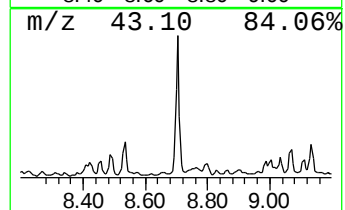
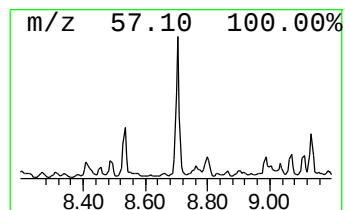
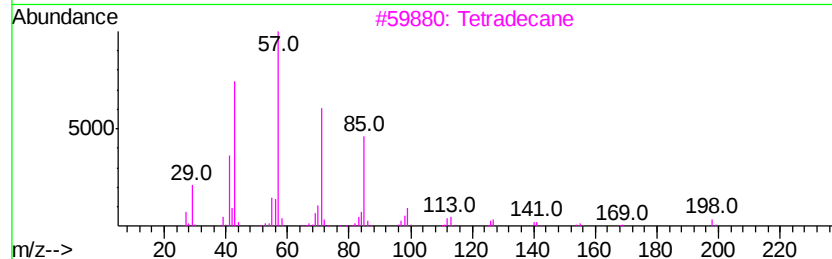
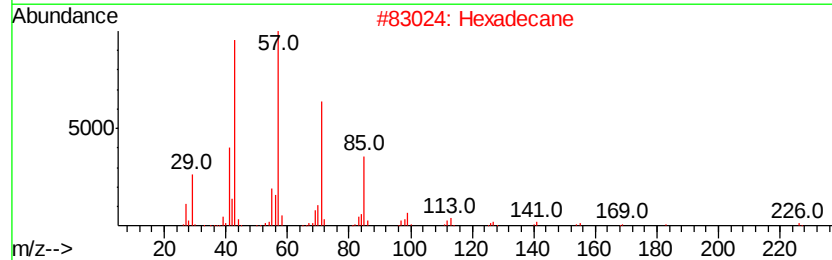
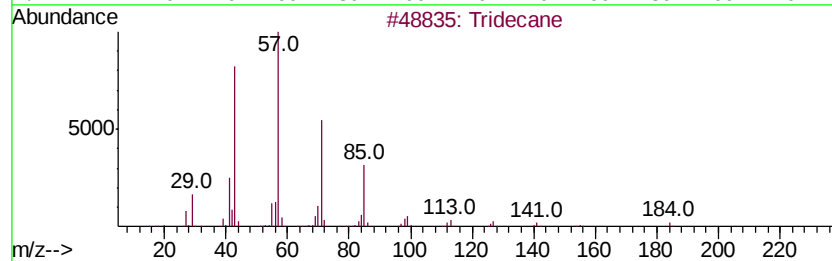
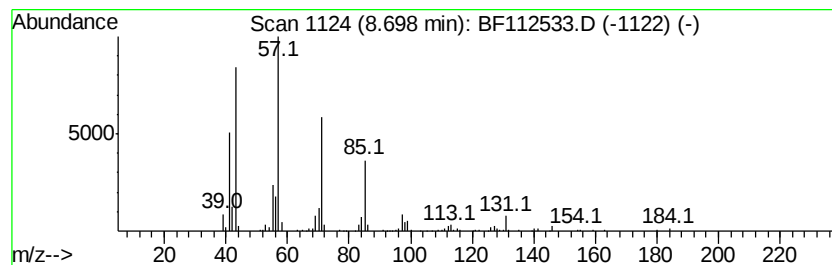
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF012519.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 3 Tridecane Concentration Rank 15

| R.T.    | EstConc             | Area         | Relative to ISTD | R.T.      |
|---------|---------------------|--------------|------------------|-----------|
| 8.70    | 16.29 ng            | 651174       | Naphthalene-d8   | 8.12      |
| Hit# of | 5                   | Tentative ID | MW MolForm       | CAS# Qual |
| 1       | Tridecane           | 184 C13H28   | 000629-50-5      | 96        |
| 2       | Hexadecane          | 226 C16H34   | 000544-76-3      | 87        |
| 3       | Tetradecane         | 198 C14H30   | 000629-59-4      | 86        |
| 4       | Dodecane            | 170 C12H26   | 000112-40-3      | 86        |
| 5       | Dodecane, 2-methyl- | 184 C13H28   | 001560-97-0      | 72        |



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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF012519.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

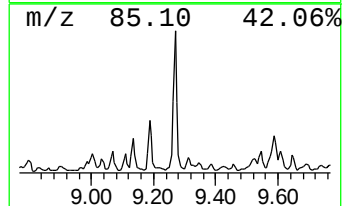
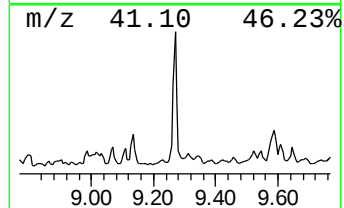
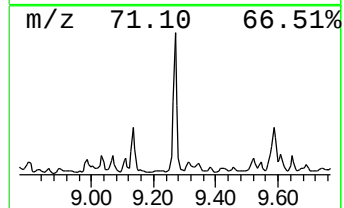
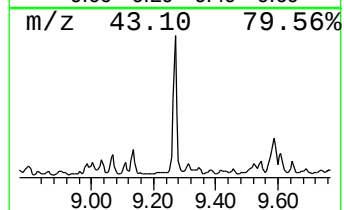
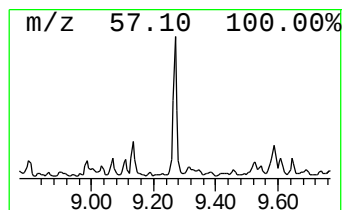
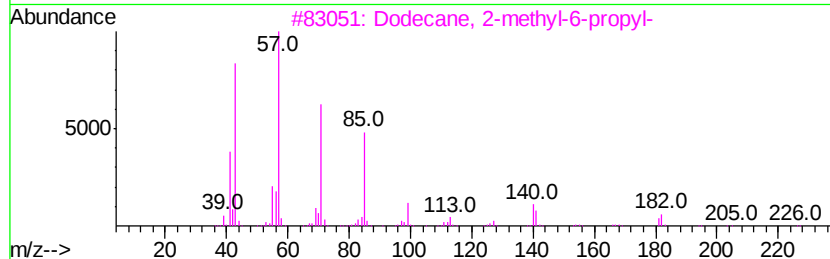
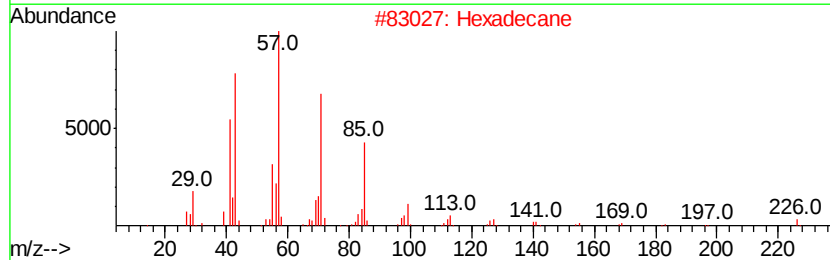
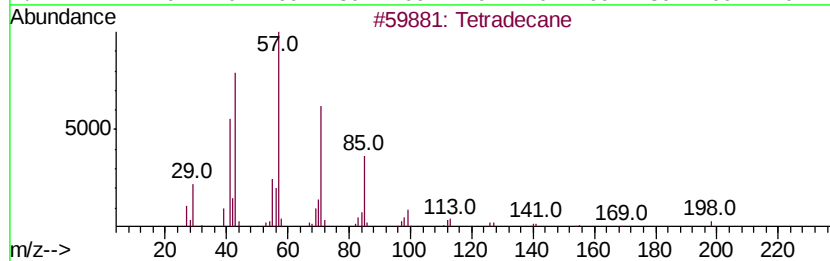
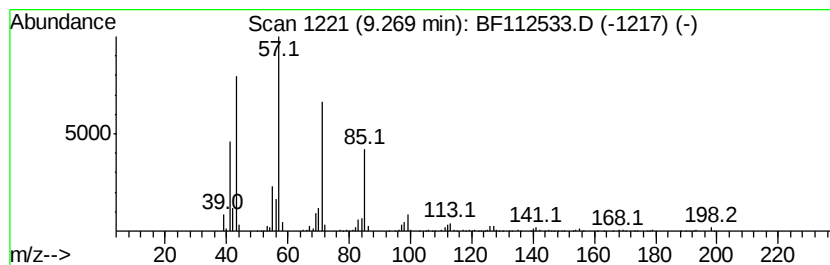
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 4 Tetradecane Concentration Rank 8

| R.T. | EstConc  | Area   | Relative to ISTD | R.T. |
|------|----------|--------|------------------|------|
| 9.27 | 22.91 ng | 798434 | Acenaphthene-d10 | 9.87 |

| Hit# | of | Tentative ID                 | MW  | MolForm | CAS#        | Qual |
|------|----|------------------------------|-----|---------|-------------|------|
| 1    | 5  | Tetradecane                  | 198 | C14H30  | 000629-59-4 | 97   |
| 2    |    | Hexadecane                   | 226 | C16H34  | 000544-76-3 | 91   |
| 3    |    | Dodecane, 2-methyl-6-propyl- | 226 | C16H34  | 055045-08-4 | 86   |
| 4    |    | Nonane, 3,7-dimethyl-        | 156 | C11H24  | 017302-32-8 | 74   |
| 5    |    | Tridecane                    | 184 | C13H28  | 000629-50-5 | 64   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021319\  
Data File : BF112533.D  
Acq On : 13 Feb 2019 12:32  
Operator : JU/SJ  
Sample : K1343-13 2X  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

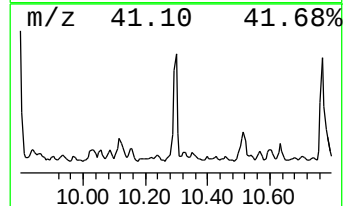
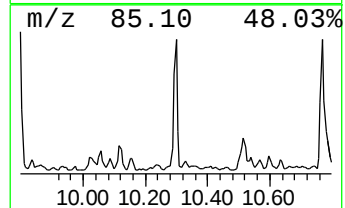
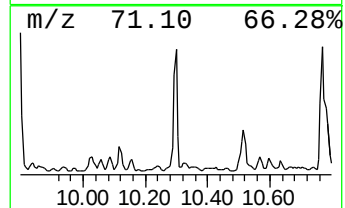
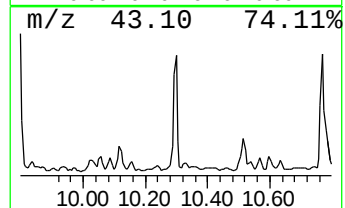
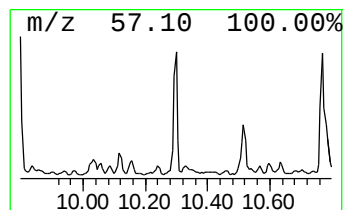
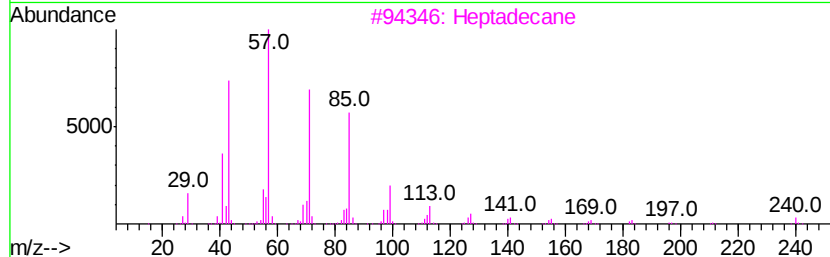
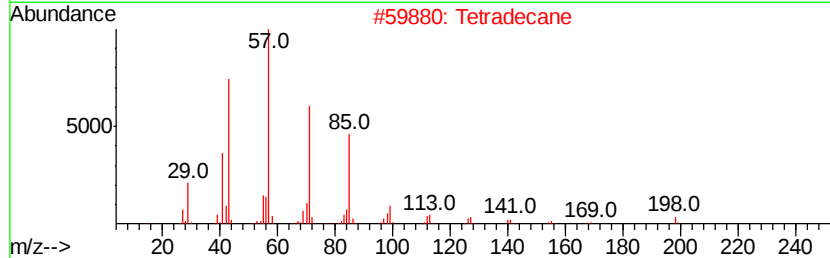
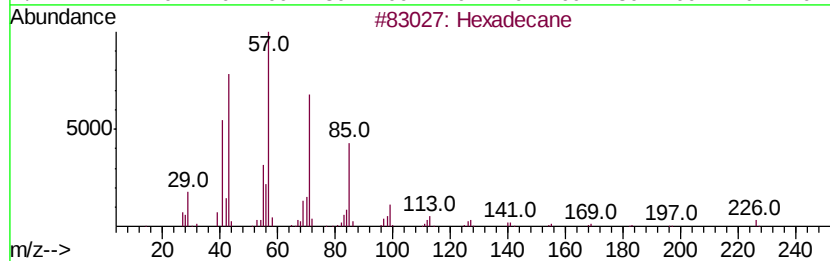
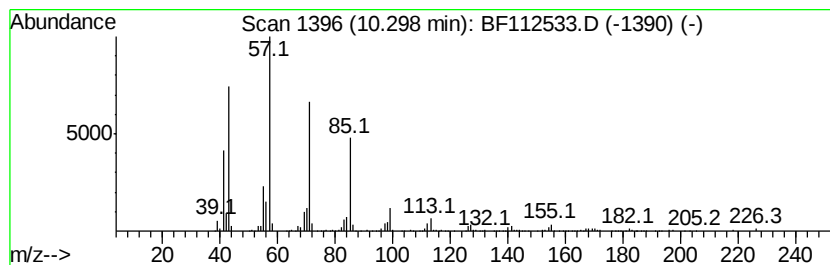
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ClientSampleId :  
JC-02-021119-G

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF012519.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 6 Hexadecane Concentration Rank 9

| R.T.    | EstConc                              | Area          | Relative to ISTD | R.T.      |
|---------|--------------------------------------|---------------|------------------|-----------|
| 10.30   | 22.89 ng                             | 797816        | Acenaphthene-d10 | 9.87      |
| Hit# of | 5                                    | Tentative ID  | MW MolForm       | CAS# Qual |
| 1       | Hexadecane                           | 226 C16H34    | 000544-76-3      | 96        |
| 2       | Tetradecane                          | 198 C14H30    | 000629-59-4      | 91        |
| 3       | Heptadecane                          | 240 C17H36    | 000629-78-7      | 91        |
| 4       | Sulfurous acid, 2-propyl tetradec... | 320 C17H36O3S | 1000309-12-5     | 90        |
| 5       | Undecane, 2-methyl-                  | 170 C12H26    | 007045-71-8      | 80        |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021319\  
Data File : BF112533.D  
Acq On : 13 Feb 2019 12:32  
Operator : JU/SJ  
Sample : K1343-13 2X  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
JC-02-021119-G

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF012519.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

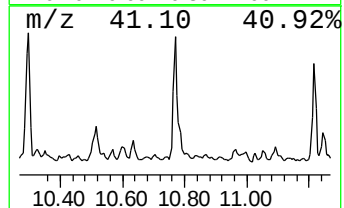
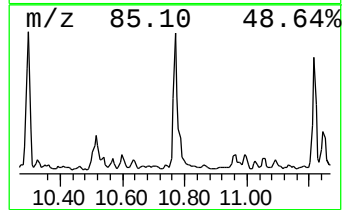
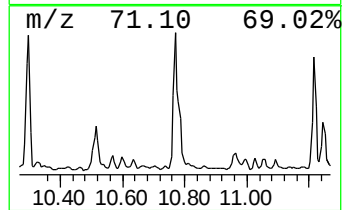
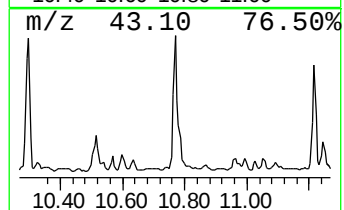
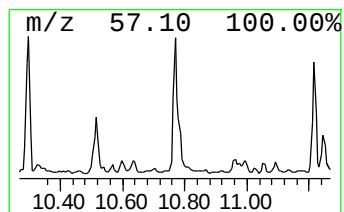
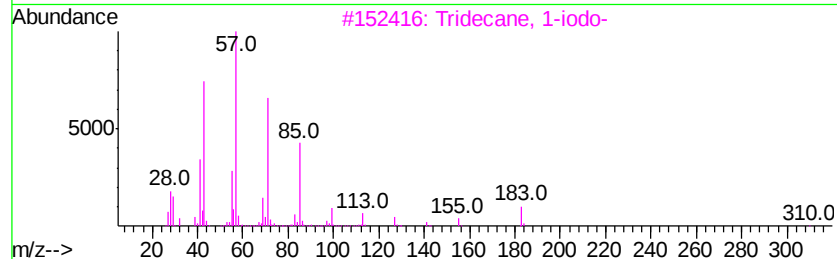
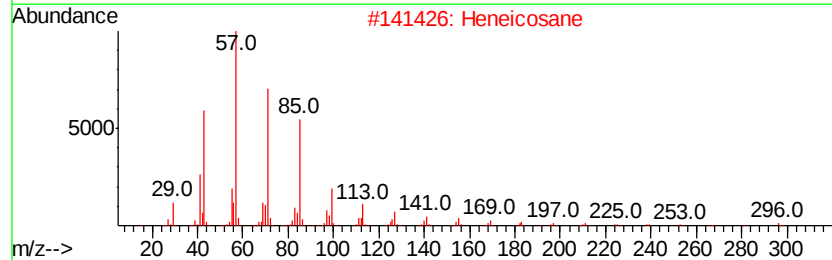
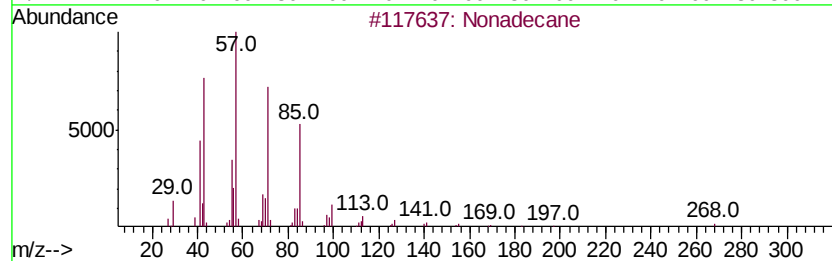
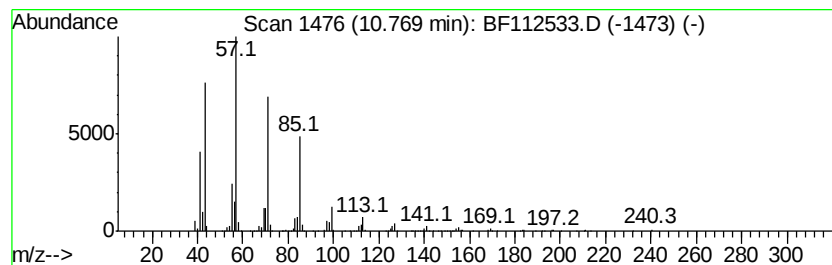
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 Nonadecane Concentration Rank 6

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 10.77 | 27.03 ng | 883493 | Phenanthrene-d10 | 11.36 |

| Hit# | of | Tentative ID                      | MW  | MolForm   | CAS#         | Qual |
|------|----|-----------------------------------|-----|-----------|--------------|------|
| 1    | 5  | Nonadecane                        | 268 | C19H40    | 000629-92-5  | 91   |
| 2    |    | Heneicosane                       | 296 | C21H44    | 000629-94-7  | 91   |
| 3    |    | Tridecane, 1-iodo-                | 310 | C13H27I   | 035599-77-0  | 91   |
| 4    |    | Heptadecane                       | 240 | C17H36    | 000629-78-7  | 87   |
| 5    |    | Sulfurous acid, 2-propyl tetra... | 320 | C17H36O3S | 1000309-12-5 | 86   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021319\  
Data File : BF112533.D  
Acq On : 13 Feb 2019 12:32  
Operator : JU/SJ  
Sample : K1343-13 2X  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
JC-02-021119-G

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF012519.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

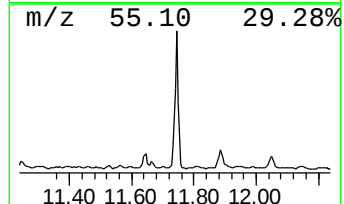
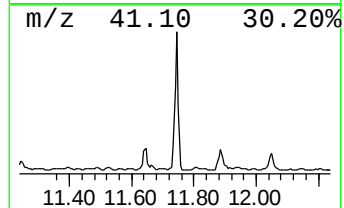
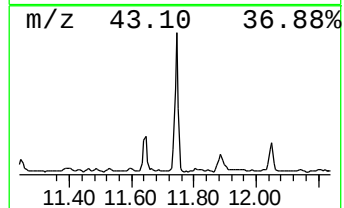
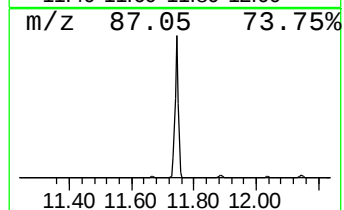
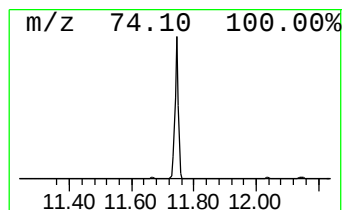
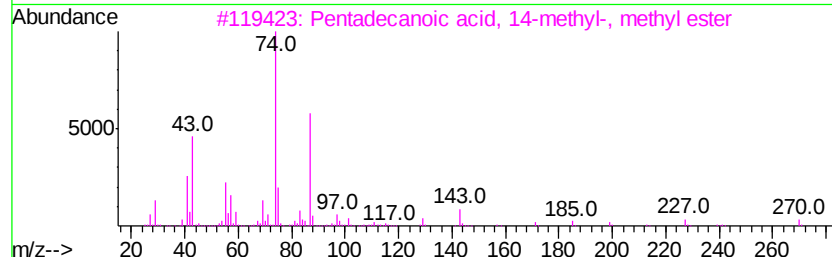
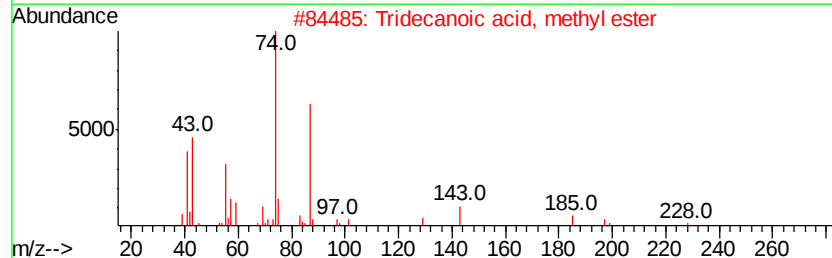
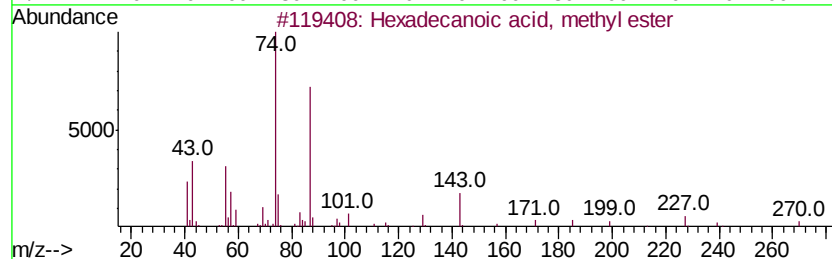
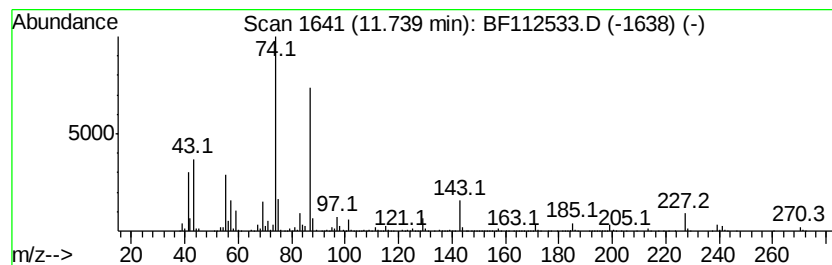
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 10 Hexadecanoic acid, methyl e... Concentration Rank 3

| R.T.  | EstConc   | Area    | Relative to ISTD | R.T.  |
|-------|-----------|---------|------------------|-------|
| 11.74 | 102.23 ng | 3341650 | Phenanthrene-d10 | 11.36 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | Hexadecanoic acid, methyl ester     | 270 | C17H34O2 | 000112-39-0 | 98   |
| 2    |    | Tridecanoic acid, methyl ester      | 228 | C14H28O2 | 001731-88-0 | 95   |
| 3    |    | Pentadecanoic acid, 14-methyl-, ... | 270 | C17H34O2 | 005129-60-2 | 92   |
| 4    |    | Decanoic acid, methyl ester         | 186 | C11H22O2 | 000110-42-9 | 87   |
| 5    |    | Pentadecanoic acid, methyl ester    | 256 | C16H32O2 | 007132-64-1 | 86   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021319\  
Data File : BF112533.D  
Acq On : 13 Feb 2019 12:32  
Operator : JU/SJ  
Sample : K1343-13 2X  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
JC-02-021119-G

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF012519.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

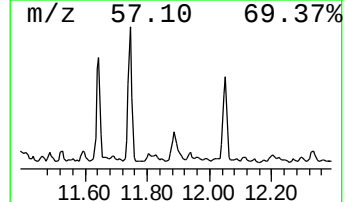
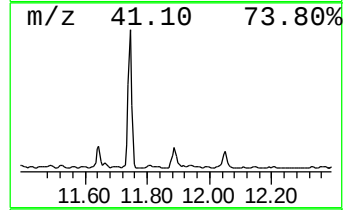
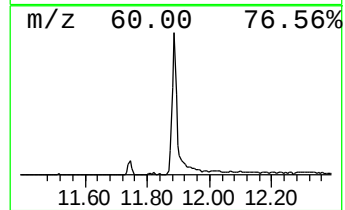
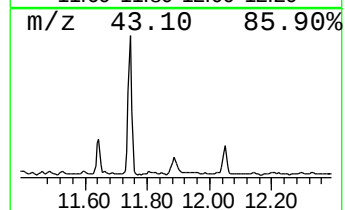
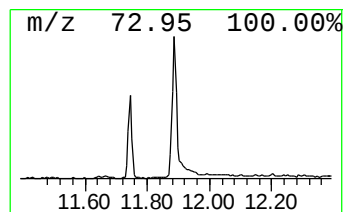
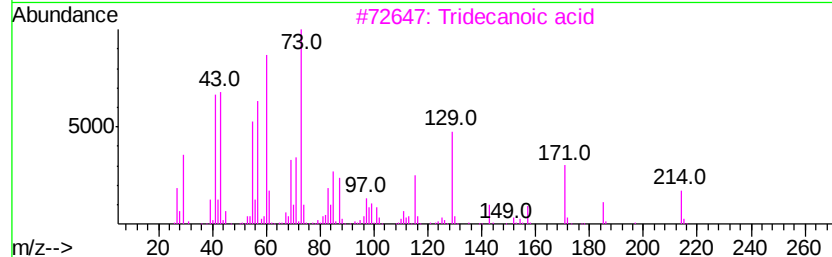
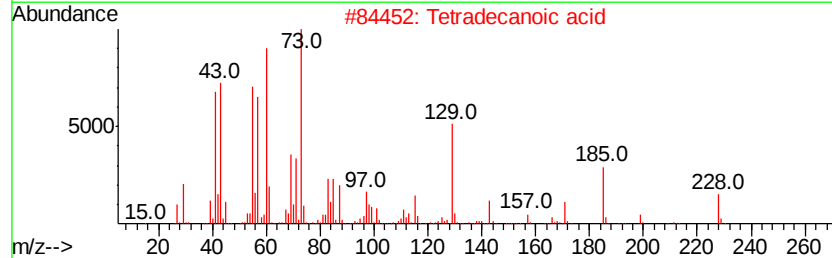
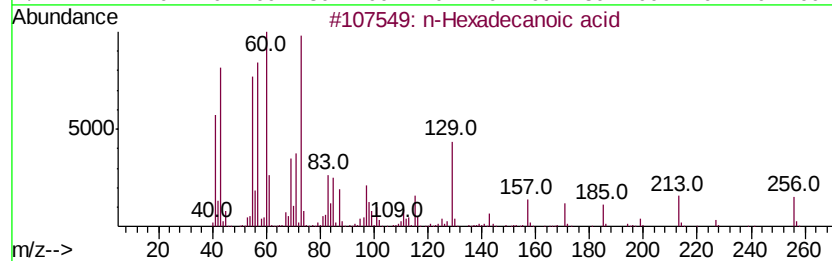
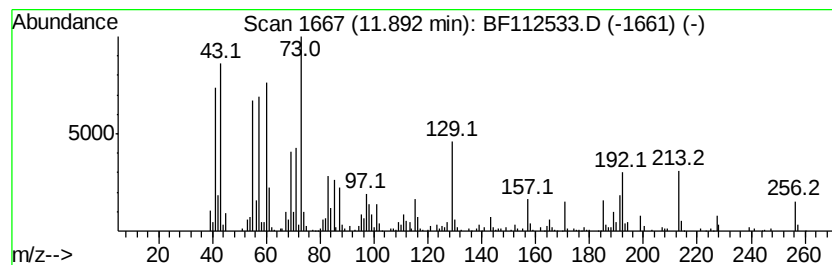
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TIC Integration Parameters: LSCINT.P

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Peak Number 11 n-Hexadecanoic acid Concentration Rank 12

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 11.89 | 18.29 ng | 597904 | Phenanthrene-d10 | 11.36 |

| Hit# | of | Tentative ID        | MW  | MolForm  | CAS#        | Qual |
|------|----|---------------------|-----|----------|-------------|------|
| 1    | 5  | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 96   |
| 2    |    | Tetradecanoic acid  | 228 | C14H28O2 | 000544-63-8 | 91   |
| 3    |    | Tridecanoic acid    | 214 | C13H26O2 | 000638-53-9 | 83   |
| 4    |    | Pentadecanoic acid  | 242 | C15H30O2 | 001002-84-2 | 81   |
| 5    |    | n-Decanoic acid     | 172 | C10H20O2 | 000334-48-5 | 62   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021319\  
Data File : BF112533.D  
Acq On : 13 Feb 2019 12:32  
Operator : JU/SJ  
Sample : K1343-13 2X  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
JC-02-021119-G

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF012519.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

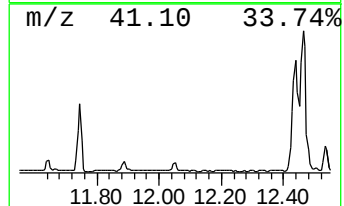
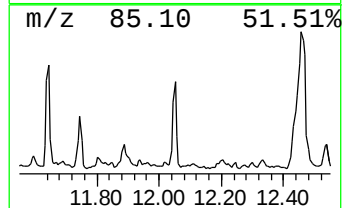
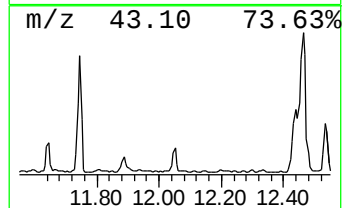
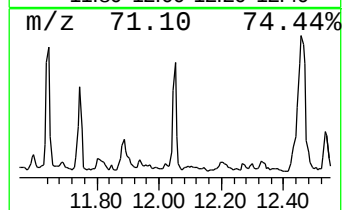
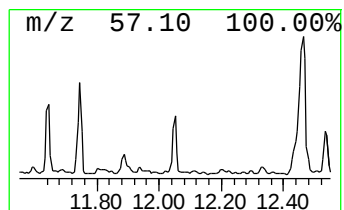
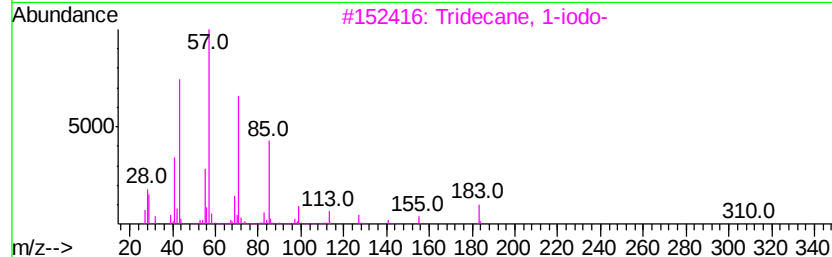
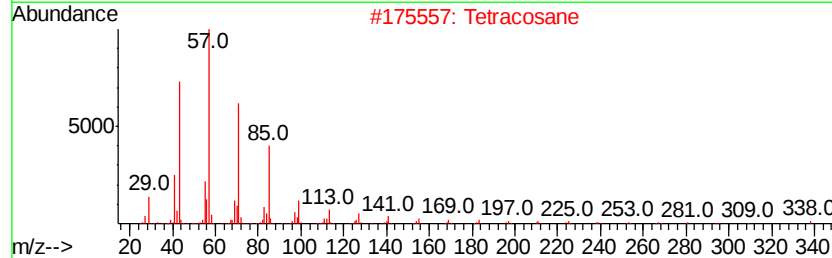
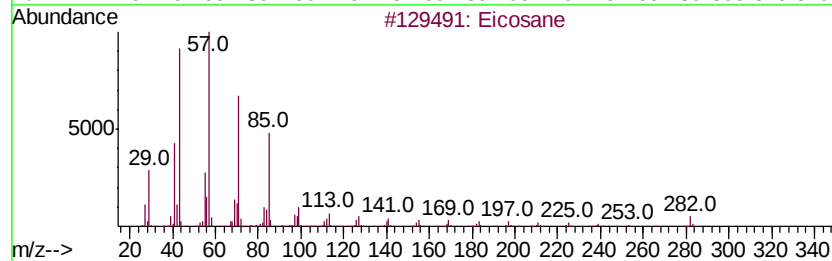
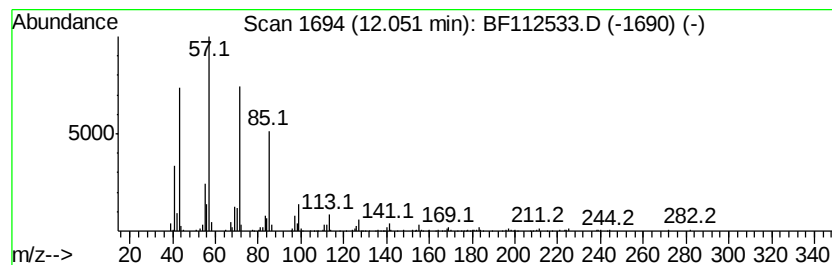
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 12 Eicosane Concentration Rank 20

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 12.05 | 12.36 ng | 403893 | Phenanthrene-d10 | 11.36 |

| Hit# | of | Tentative ID       | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------|-----|---------|-------------|------|
| 1    | 5  | Eicosane           | 282 | C20H42  | 000112-95-8 | 91   |
| 2    |    | Tetracosane        | 338 | C24H50  | 000646-31-1 | 91   |
| 3    |    | Tridecane, 1-iodo- | 310 | C13H27I | 035599-77-0 | 91   |
| 4    |    | Pentadecane        | 212 | C15H32  | 000629-62-9 | 91   |
| 5    |    | Hexadecane         | 226 | C16H34  | 000544-76-3 | 91   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021319\  
Data File : BF112533.D  
Acq On : 13 Feb 2019 12:32  
Operator : JU/SJ  
Sample : K1343-13 2X  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
JC-02-021119-G

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF012519.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

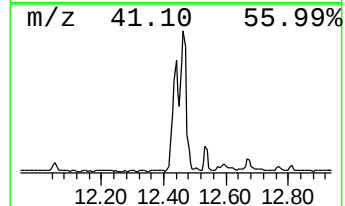
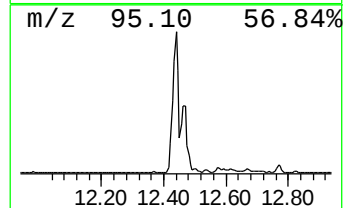
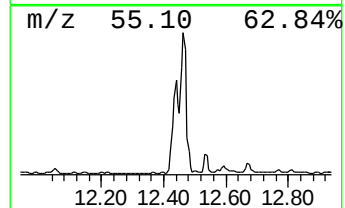
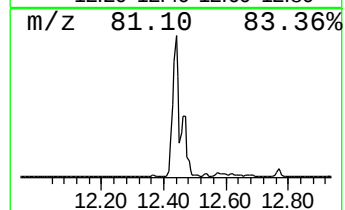
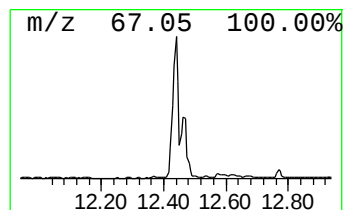
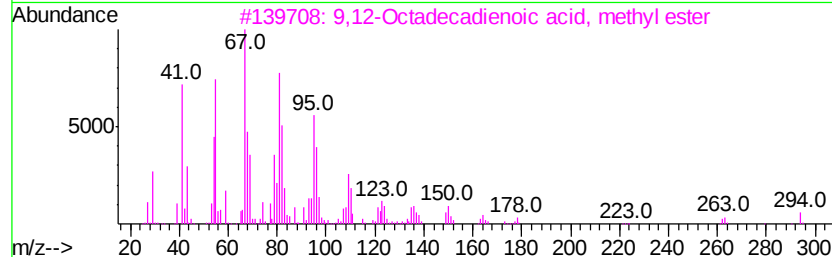
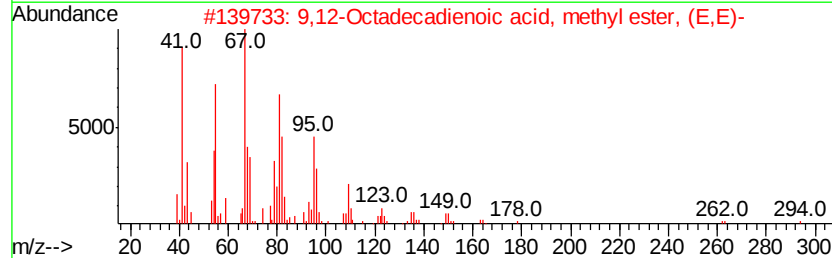
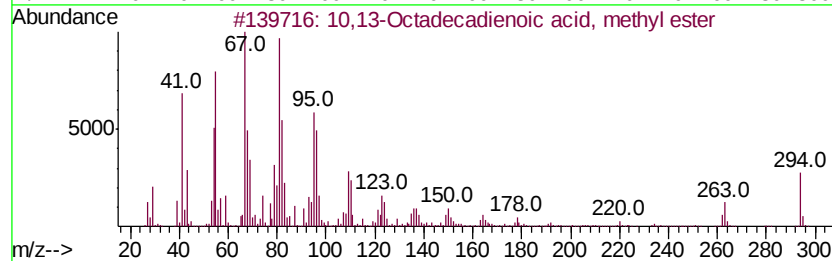
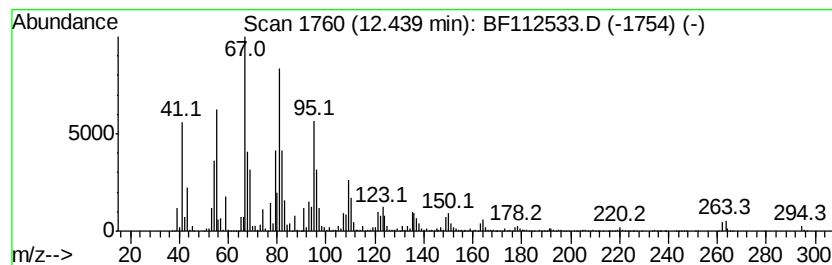
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TIC Integration Parameters: LSCINT.P

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Peak Number 13 10,13-Octadecadienoic acid,... Concentration Rank 1

| R.T.  | EstConc   | Area     | Relative to ISTD | R.T.  |
|-------|-----------|----------|------------------|-------|
| 12.44 | 315.96 ng | 10328000 | Phenanthrene-d10 | 11.36 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | 10,13-Octadecadienoic acid, meth... | 294 | C19H34O2 | 056554-62-2 | 99   |
| 2    |    | 9,12-Octadecadienoic acid, methy... | 294 | C19H34O2 | 002566-97-4 | 99   |
| 3    |    | 9,12-Octadecadienoic acid, methv... | 294 | C19H34O2 | 002462-85-3 | 99   |
| 4    |    | 9,15-Octadecadienoic acid, methy... | 294 | C19H34O2 | 017309-05-6 | 99   |
| 5    |    | 9,12-Octadecadienoic acid (Z,Z)-... | 294 | C19H34O2 | 000112-63-0 | 99   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021319\  
Data File : BF112533.D  
Acq On : 13 Feb 2019 12:32  
Operator : JU/SJ  
Sample : K1343-13 2X  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
JC-02-021119-G

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF012519.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

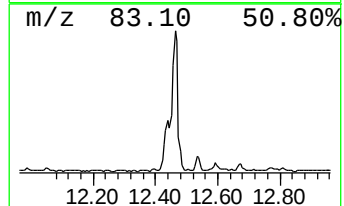
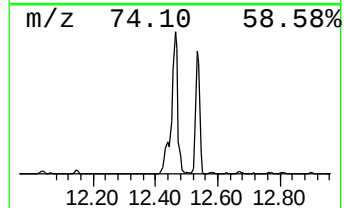
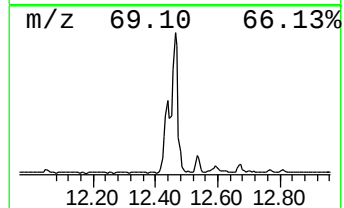
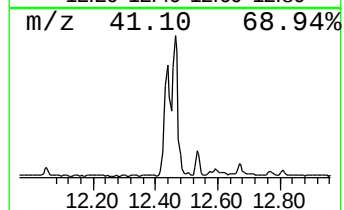
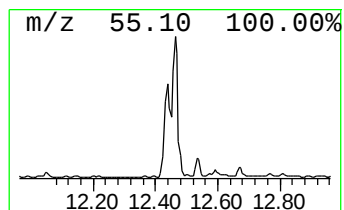
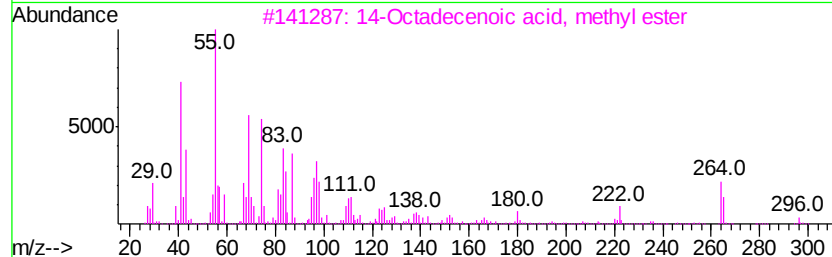
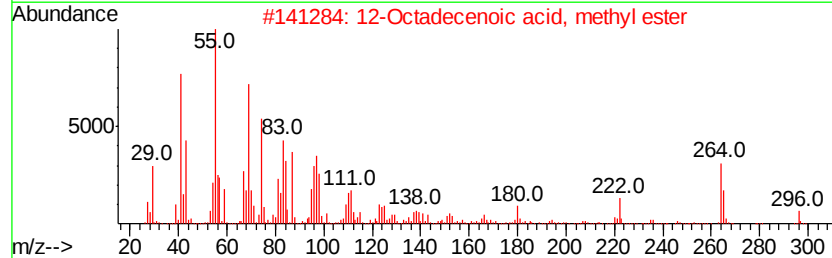
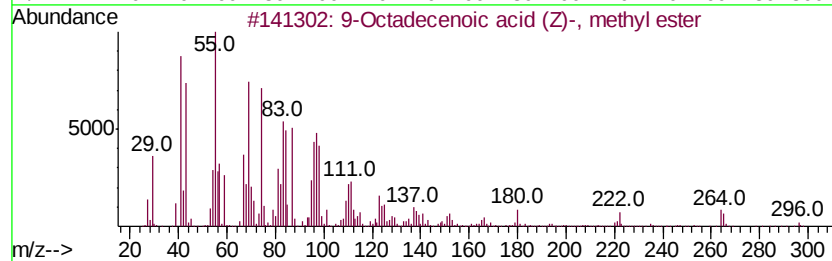
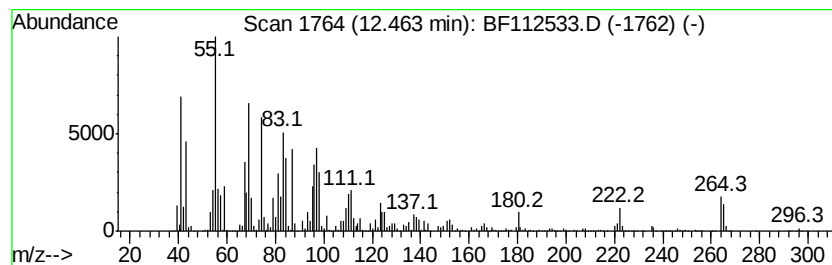
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TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 14 9-Octadecenoic acid (Z)-, m... Concentration Rank 2

| R.T.  | EstConc   | Area    | Relative to ISTD | R.T.  |
|-------|-----------|---------|------------------|-------|
| 12.46 | 301.52 ng | 9855860 | Phenanthrene-d10 | 11.36 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | 9-Octadecenoic acid (Z)-, methyl... | 296 | C19H36O2 | 000112-62-9 | 99   |
| 2    |    | 12-Octadecenoic acid, methyl ester  | 296 | C19H36O2 | 056554-46-2 | 99   |
| 3    |    | 14-Octadecenoic acid, methyl ester  | 296 | C19H36O2 | 056554-48-4 | 99   |
| 4    |    | 16-Octadecenoic acid, methyl ester  | 296 | C19H36O2 | 056554-49-5 | 99   |
| 5    |    | 13-Octadecenoic acid, methyl ester  | 296 | C19H36O2 | 056554-47-3 | 99   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021319\  
Data File : BF112533.D  
Acq On : 13 Feb 2019 12:32  
Operator : JU/SJ  
Sample : K1343-13 2X  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
JC-02-021119-G

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF012519.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

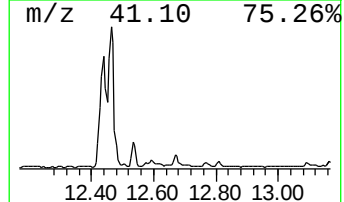
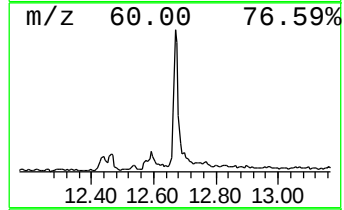
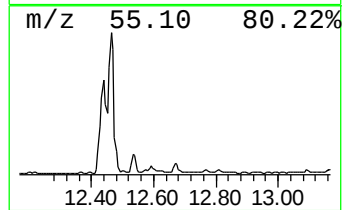
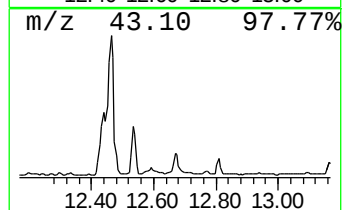
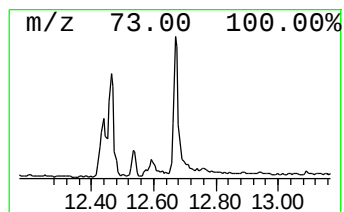
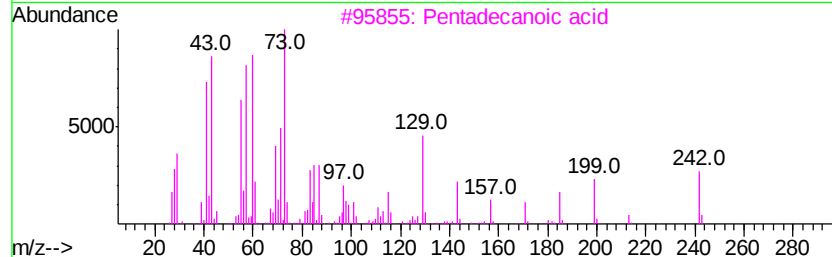
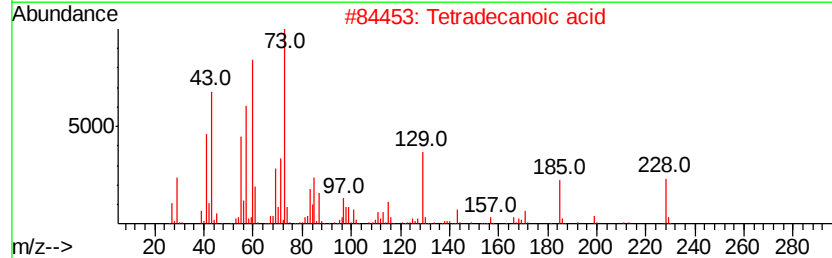
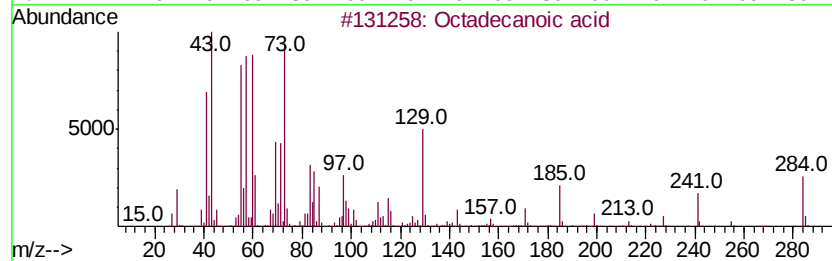
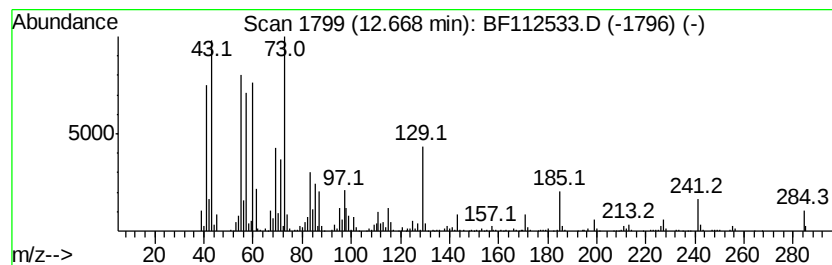
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 15 Octadecanoic acid Concentration Rank 13

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 12.67 | 17.89 ng | 584767 | Phenanthrene-d10 | 11.36 |

| Hit# | of | Tentative ID        | MW  | MolForm  | CAS#        | Qual |
|------|----|---------------------|-----|----------|-------------|------|
| 1    | 5  | Octadecanoic acid   | 284 | C18H36O2 | 000057-11-4 | 99   |
| 2    |    | Tetradecanoic acid  | 228 | C14H28O2 | 000544-63-8 | 83   |
| 3    |    | Pentadecanoic acid  | 242 | C15H30O2 | 001002-84-2 | 81   |
| 4    |    | Tridecanoic acid    | 214 | C13H26O2 | 000638-53-9 | 76   |
| 5    |    | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 70   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021319\  
Data File : BF112533.D  
Acq On : 13 Feb 2019 12:32  
Operator : JU/SJ  
Sample : K1343-13 2X  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
JC-02-021119-G

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF012519.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

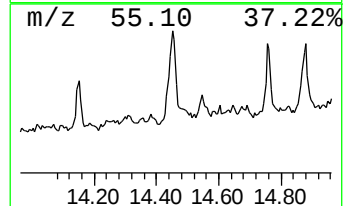
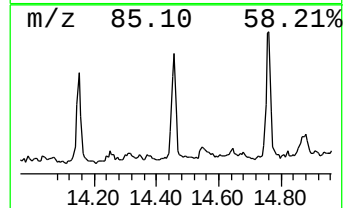
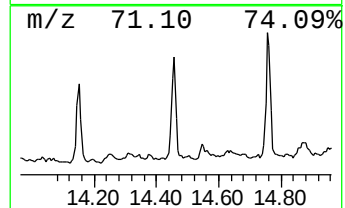
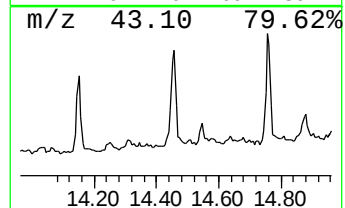
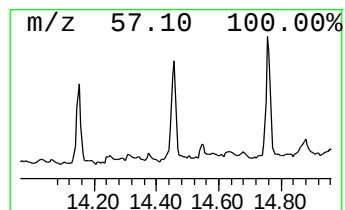
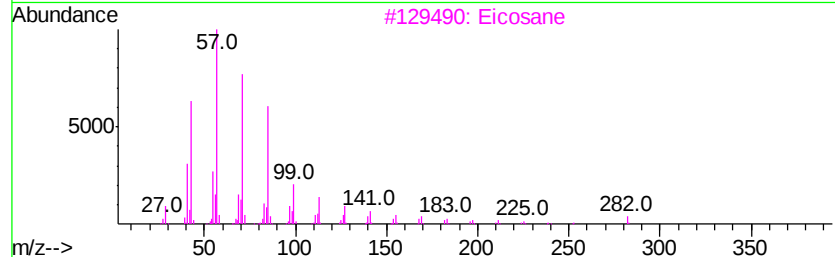
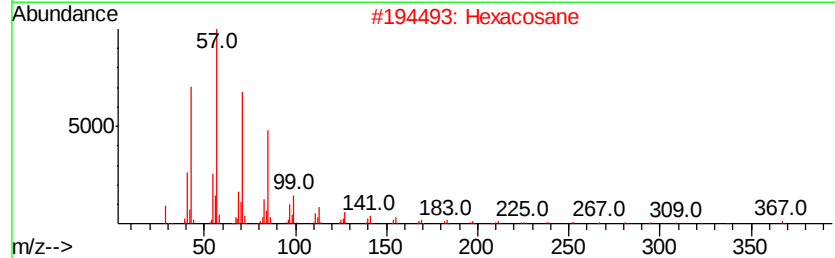
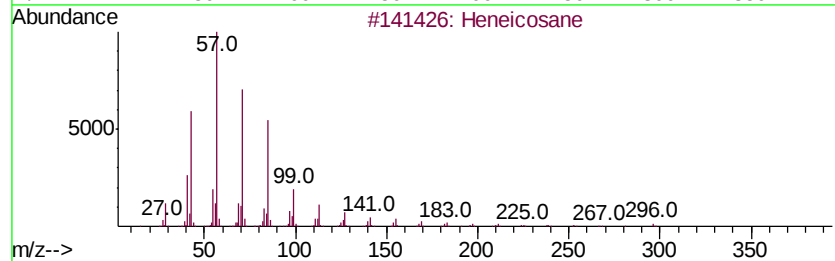
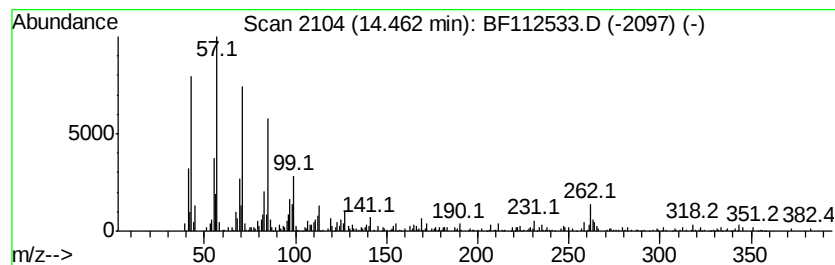
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 16 Heneicosane Concentration Rank 14

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 14.46 | 16.76 ng | 633599 | Chrysene-d12     | 14.01 |

| Hit# | of | Tentative ID       | MW  | MolForm | CAS#         | Qual |
|------|----|--------------------|-----|---------|--------------|------|
| 1    | 5  | Heneicosane        | 296 | C21H44  | 000629-94-7  | 90   |
| 2    |    | Hexacosane         | 366 | C26H54  | 000630-01-3  | 87   |
| 3    |    | Eicosane           | 282 | C20H42  | 000112-95-8  | 87   |
| 4    |    | 2-methyloctacosane | 408 | C29H60  | 1000376-72-8 | 87   |
| 5    |    | Heptadecane        | 240 | C17H36  | 000629-78-7  | 87   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021319\  
Data File : BF112533.D  
Acq On : 13 Feb 2019 12:32  
Operator : JU/SJ  
Sample : K1343-13 2X  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
JC-02-021119-G

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF012519.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

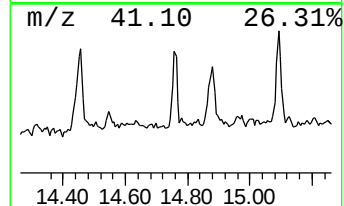
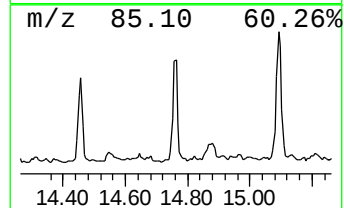
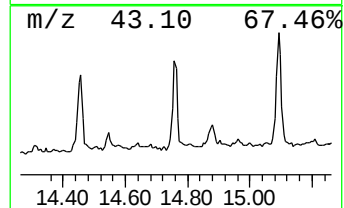
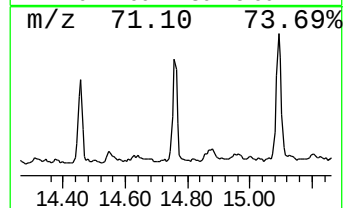
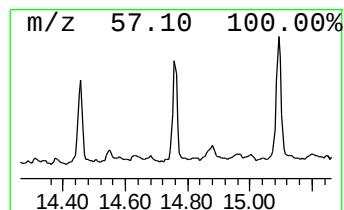
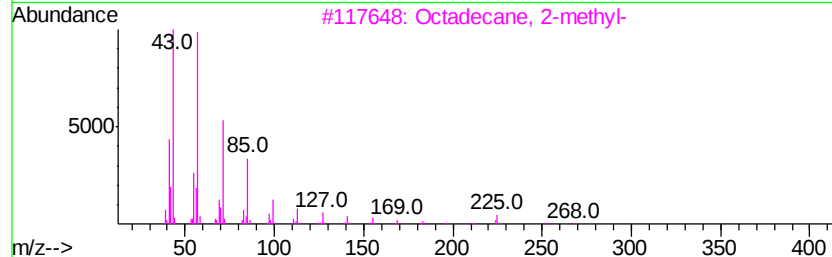
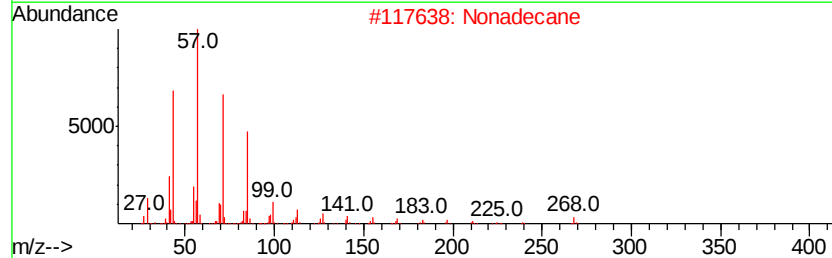
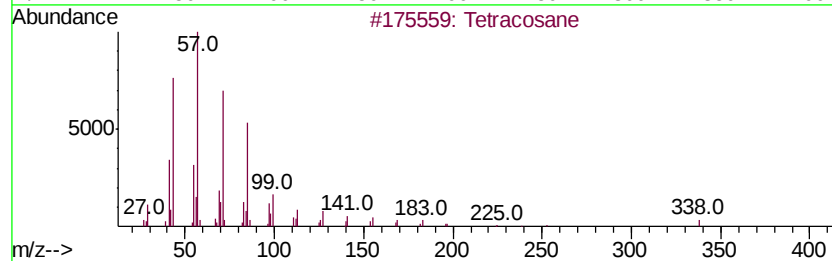
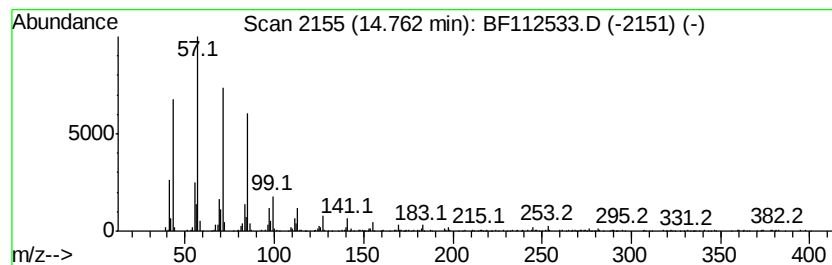
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 17 Tetracosane Concentration Rank 19

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 14.76 | 12.83 ng | 365704 | Perylene-d12     | 15.49 |

| Hit# | of | Tentative ID          | MW  | MolForm | CAS#         | Qual |
|------|----|-----------------------|-----|---------|--------------|------|
| 1    | 5  | Tetracosane           | 338 | C24H50  | 000646-31-1  | 94   |
| 2    |    | Nonadecane            | 268 | C19H40  | 000629-92-5  | 90   |
| 3    |    | Octadecane, 2-methyl- | 268 | C19H40  | 001560-88-9  | 89   |
| 4    |    | Docosane, 11-butyl-   | 366 | C26H54  | 013475-76-8  | 89   |
| 5    |    | 2-methyloctacosane    | 408 | C29H60  | 1000376-72-8 | 87   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021319\  
Data File : BF112533.D  
Acq On : 13 Feb 2019 12:32  
Operator : JU/SJ  
Sample : K1343-13 2X  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
JC-02-021119-G

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF012519.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

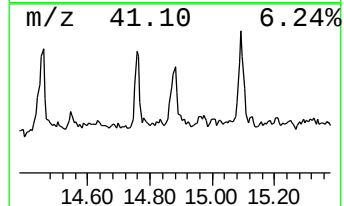
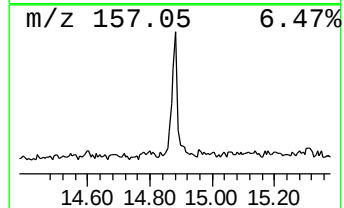
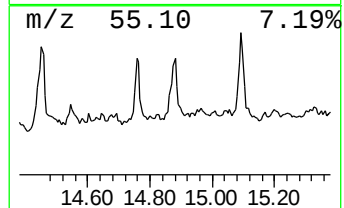
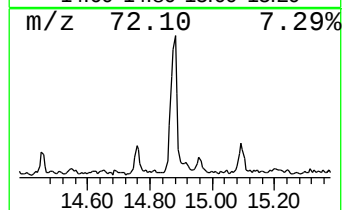
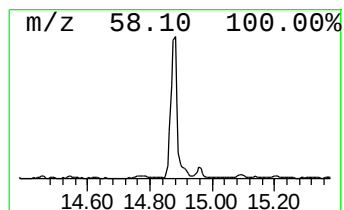
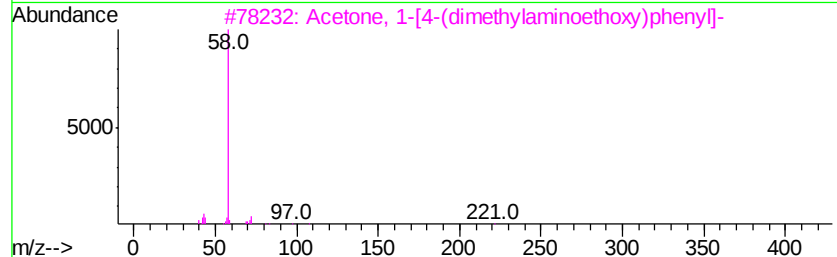
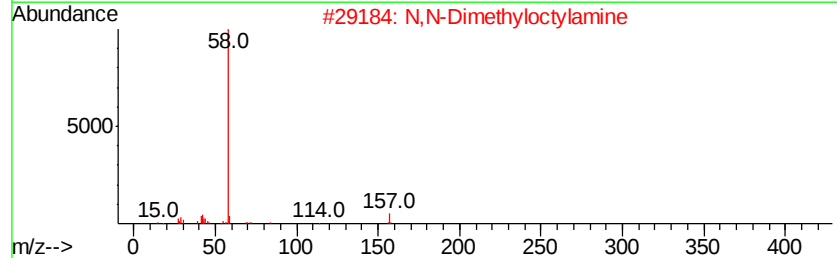
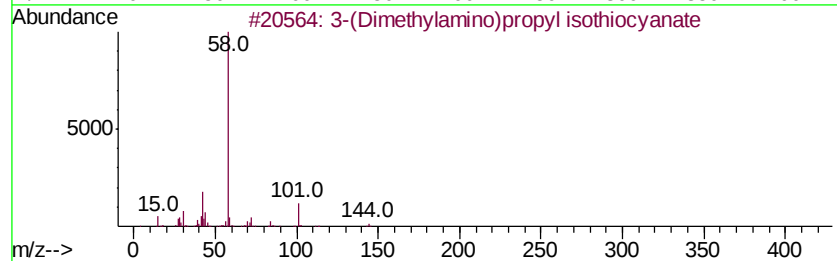
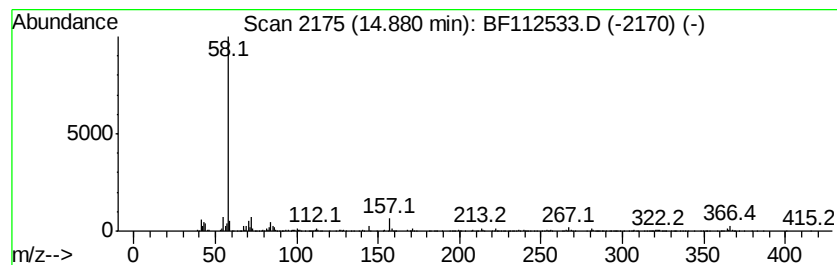
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 18 3-(Dimethylamino)propyl iso... Concentration Rank 7

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 14.88 | 24.09 ng | 686663 | Perylene-d12     | 15.49 |

| Hit# | of | Tentative ID                                | MW  | MolForm   | CAS#        | Qual |
|------|----|---------------------------------------------|-----|-----------|-------------|------|
| 1    | 5  | 3-(Dimethylamino)propyl isothiocy...        | 144 | C6H12N2S  | 027421-70-1 | 72   |
| 2    |    | N,N-Dimethyloctylamine                      | 157 | C10H23N   | 007378-99-6 | 64   |
| 3    |    | Acetone, 1-[4-(dimethylaminoethoxy)phenyl]- | 221 | C13H19NO2 | 086608-11-9 | 64   |
| 4    |    | N,N-Dimethyl-2-cyclohexyloxvethy...         | 171 | C10H21NO  | 071126-60-8 | 64   |
| 5    |    | Tetradonium Bromide                         | 335 | C17H38BrN | 001119-97-7 | 64   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021319\  
Data File : BF112533.D  
Acq On : 13 Feb 2019 12:32  
Operator : JU/SJ  
Sample : K1343-13 2X  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
JC-02-021119-G

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF012519.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

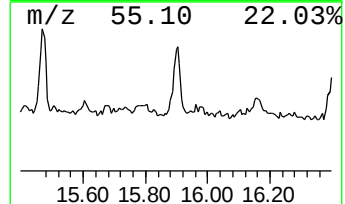
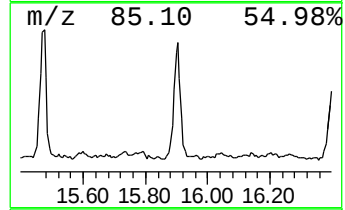
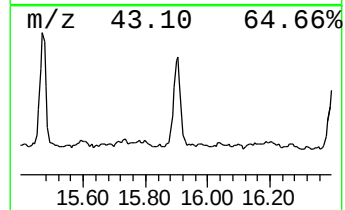
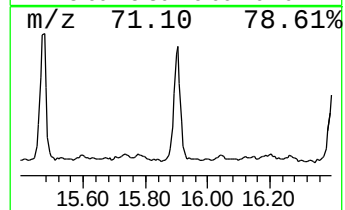
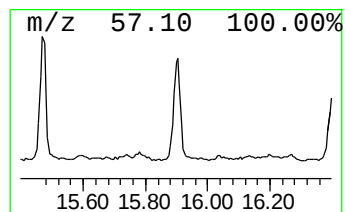
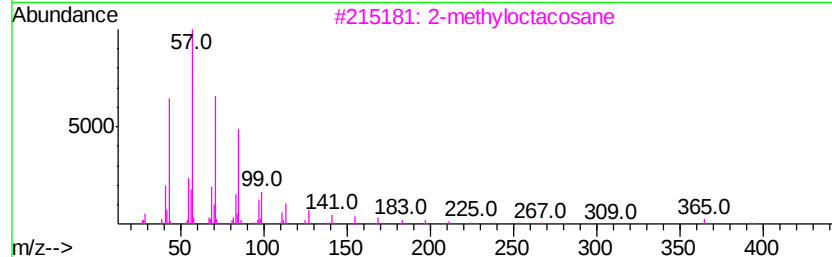
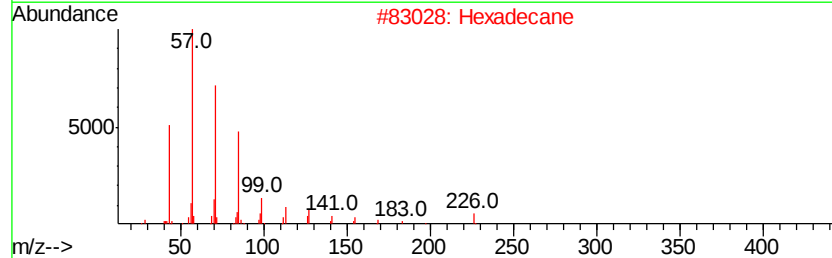
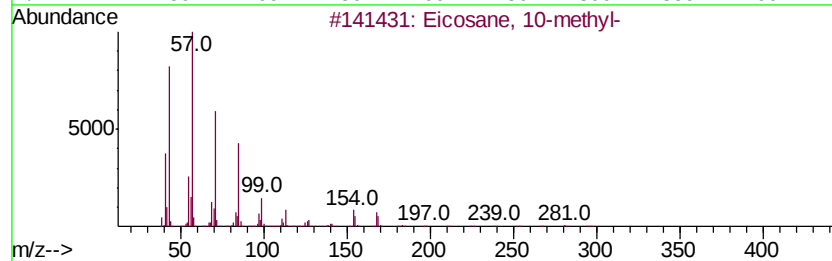
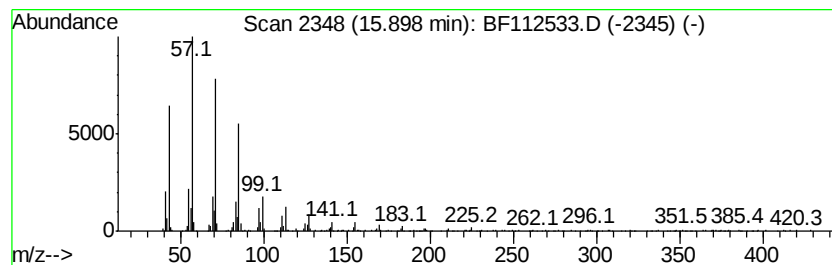
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 19 Eicosane, 10-methyl- Concentration Rank 10

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 15.90 | 19.97 ng | 569117 | Perylene-d12     | 15.49 |

| Hit# | of | 5 | Tentative ID          | MW  | MolForm | CAS#         | Qual |
|------|----|---|-----------------------|-----|---------|--------------|------|
| 1    |    |   | Eicosane, 10-methyl-  | 296 | C21H44  | 054833-23-7  | 93   |
| 2    |    |   | Hexadecane            | 226 | C16H34  | 000544-76-3  | 93   |
| 3    |    |   | 2-methyloctacosane    | 408 | C29H60  | 1000376-72-8 | 91   |
| 4    |    |   | Pentadecane, 8-hexyl- | 296 | C21H44  | 013475-75-7  | 91   |
| 5    |    |   | Hexacosane            | 366 | C26H54  | 000630-01-3  | 91   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF021319\  
 Data File : BF112533.D  
 Acq On : 13 Feb 2019 12:32  
 Operator : JU/SJ  
 Sample : K1343-13 2X  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 JC-02-021119-G

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF012519.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 |
| unknown6.61          | 6.61  | 39.4    | ng    | 1083960  | 1                     | 6.83  | 550017 | 20.0 |
| Tridecane            | 8.70  | 16.3    | ng    | 651174   | 2                     | 8.12  | 799590 | 20.0 |
| Tetradecane          | 9.27  | 22.9    | ng    | 798434   | 3                     | 9.87  | 696952 | 20.0 |
| Hexadecane           | 10.30 | 22.9    | ng    | 797816   | 3                     | 9.87  | 696952 | 20.0 |
| Nonadecane           | 10.77 | 27.0    | ng    | 883493   | 4                     | 11.36 | 653755 | 20.0 |
| Hexadecanoic acid... | 11.74 | 102.2   | ng    | 3341650  | 4                     | 11.36 | 653755 | 20.0 |
| n-Hexadecanoic acid  | 11.89 | 18.3    | ng    | 597904   | 4                     | 11.36 | 653755 | 20.0 |
| Eicosane             | 12.05 | 12.4    | ng    | 403893   | 4                     | 11.36 | 653755 | 20.0 |
| 10,13-Octadecadie... | 12.44 | 316.0   | ng    | 10328000 | 4                     | 11.36 | 653755 | 20.0 |
| 9-Octadecenoic ac... | 12.46 | 301.5   | ng    | 9855860  | 4                     | 11.36 | 653755 | 20.0 |
| Octadecanoic acid    | 12.67 | 17.9    | ng    | 584767   | 4                     | 11.36 | 653755 | 20.0 |
| Heneicosane          | 14.46 | 16.8    | ng    | 633599   | 5                     | 14.01 | 756048 | 20.0 |
| Tetracosane          | 14.76 | 12.8    | ng    | 365704   | 6                     | 15.49 | 570048 | 20.0 |
| 3-(Dimethylamino)... | 14.88 | 24.1    | ng    | 686663   | 6                     | 15.49 | 570048 | 20.0 |
| Eicosane, 10-methyl- | 15.90 | 20.0    | ng    | 569117   | 6                     | 15.49 | 570048 | 20.0 |