

Data Path : Z:\HPCHEM1\BNA F\DATA\BF062917\  
 Data File : BF096298.D  
 Acq On : 29 Jun 2017 18:17  
 Operator : SJ/MA  
 Sample : I3925-01  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HD-01-062617

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-BF062717.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         | 3.193       | 183           | 188         | 201          | rBV      | 250403         | 538292        | 11.15%          | 0.590%        |
| 2         | 4.975       | 485           | 491         | 500          | rBV      | 760019         | 1079790       | 22.36%          | 1.183%        |
| 3         | 5.393       | 556           | 562         | 565          | rBV      | 4452131        | 4755539       | 98.49%          | 5.209%        |
| 4         | 6.404       | 728           | 734         | 737          | rBV      | 4122347        | 4828616       | 100.00%         | 5.289%        |
| 5         | 6.540       | 752           | 757         | 761          | rBV      | 4229572        | 4531163       | 93.84%          | 4.963%        |
| 6         | 6.769       | 792           | 796         | 800          | rBV      | 1366454        | 1134743       | 23.50%          | 1.243%        |
| 7         | 6.928       | 819           | 823         | 826          | rBV      | 3633771        | 3320635       | 68.77%          | 3.637%        |
| 8         | 7.328       | 886           | 891         | 894          | rBV      | 2835167        | 3063056       | 63.44%          | 3.355%        |
| 9         | 8.051       | 1010          | 1014        | 1017         | rBV      | 1832713        | 1593824       | 33.01%          | 1.746%        |
| 10        | 9.134       | 1192          | 1198        | 1201         | rVB      | 4081729        | 4305337       | 89.16%          | 4.716%        |
| 11        | 9.392       | 1238          | 1242        | 1246         | rBV2     | 75045          | 90404         | 1.87%           | 0.099%        |
| 12        | 9.463       | 1249          | 1254        | 1257         | rBV      | 131865         | 150064        | 3.11%           | 0.164%        |
| 13        | 9.522       | 1260          | 1264        | 1267         | rVV      | 758953         | 660157        | 13.67%          | 0.723%        |
| 14        | 9.663       | 1283          | 1288        | 1291         | rVB      | 260503         | 212282        | 4.40%           | 0.233%        |
| 15        | 9.751       | 1300          | 1303        | 1306         | rVB      | 125348         | 97347         | 2.02%           | 0.107%        |
| 16        | 9.804       | 1306          | 1312        | 1315         | rBV2     | 1731474        | 1595498       | 33.04%          | 1.748%        |
| 17        | 9.834       | 1315          | 1317        | 1321         | rVB      | 389016         | 307845        | 6.38%           | 0.337%        |
| 18        | 10.004      | 1343          | 1346        | 1350         | rVB      | 262557         | 250457        | 5.19%           | 0.274%        |
| 19        | 10.216      | 1376          | 1382        | 1385         | rBV4     | 55852          | 116137        | 2.41%           | 0.127%        |
| 20        | 10.251      | 1385          | 1388        | 1391         | rVB2     | 219591         | 198232        | 4.11%           | 0.217%        |
| 21        | 10.345      | 1401          | 1404        | 1411         | rVB      | 399082         | 399395        | 8.27%           | 0.437%        |
| 22        | 10.416      | 1411          | 1416        | 1418         | rBV      | 90872          | 107934        | 2.24%           | 0.118%        |
| 23        | 10.463      | 1421          | 1424        | 1429         | rVV3     | 92743          | 151022        | 3.13%           | 0.165%        |
| 24        | 10.510      | 1429          | 1432        | 1437         | rVB      | 136420         | 157951        | 3.27%           | 0.173%        |
| 25        | 10.592      | 1441          | 1446        | 1449         | rVV      | 2480770        | 2524075       | 52.27%          | 2.765%        |
| 26        | 10.722      | 1462          | 1468        | 1474         | rBV2     | 275724         | 379987        | 7.87%           | 0.416%        |
| 27        | 10.898      | 1492          | 1498        | 1500         | rBV3     | 123513         | 171575        | 3.55%           | 0.188%        |
| 28        | 10.922      | 1500          | 1502        | 1505         | rVV3     | 92968          | 88956         | 1.84%           | 0.097%        |
| 29        | 11.028      | 1514          | 1520        | 1521         | rBV2     | 113892         | 138906        | 2.88%           | 0.152%        |
| 30        | 11.086      | 1527          | 1530        | 1535         | rVB      | 220073         | 216877        | 4.49%           | 0.238%        |
| 31        | 11.139      | 1535          | 1539        | 1541         | rBV      | 109974         | 134734        | 2.79%           | 0.148%        |
| 32        | 11.169      | 1541          | 1544        | 1548         | rBV2     | 202956         | 283041        | 5.86%           | 0.310%        |
| 33        | 11.286      | 1560          | 1564        | 1566         | rBV      | 1392470        | 1457009       | 30.17%          | 1.596%        |
| 34        | 11.310      | 1566          | 1568        | 1571         | rVV      | 3088792        | 2730405       | 56.55%          | 2.991%        |

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Instrument :  
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 ClientSampleId :  
 HD-01-062617

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-BF062717.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 35 | 11.357 | 1571 | 1576 | 1579 | rVV  | 1059879 | 1026837 | 21.27% | 1.125% |
| 36 | 11.392 | 1579 | 1582 | 1587 | rVB4 | 95719   | 105166  | 2.18%  | 0.115% |
| 37 | 11.510 | 1596 | 1602 | 1605 | rVB2 | 203360  | 201309  | 4.17%  | 0.221% |
| 38 | 11.592 | 1611 | 1616 | 1618 | rVV2 | 144072  | 197028  | 4.08%  | 0.216% |
| 39 | 11.616 | 1618 | 1620 | 1625 | rVB2 | 127789  | 102874  | 2.13%  | 0.113% |
| 40 | 11.692 | 1629 | 1633 | 1637 | rVB  | 1337945 | 1133012 | 23.46% | 1.241% |
| 41 | 11.786 | 1645 | 1649 | 1651 | rBV  | 532526  | 459106  | 9.51%  | 0.503% |
| 42 | 11.816 | 1651 | 1654 | 1658 | rVB2 | 1005287 | 997130  | 20.65% | 1.092% |
| 43 | 11.863 | 1658 | 1662 | 1664 | rVB  | 293171  | 272485  | 5.64%  | 0.298% |
| 44 | 11.898 | 1664 | 1668 | 1670 | rBV  | 969795  | 959094  | 19.86% | 1.051% |
| 45 | 11.916 | 1670 | 1671 | 1675 | rVB  | 353351  | 279545  | 5.79%  | 0.306% |
| 46 | 12.080 | 1696 | 1699 | 1701 | rBV  | 427705  | 363455  | 7.53%  | 0.398% |
| 47 | 12.233 | 1719 | 1725 | 1727 | rBV2 | 117701  | 137741  | 2.85%  | 0.151% |
| 48 | 12.333 | 1738 | 1742 | 1745 | rBV  | 282428  | 320781  | 6.64%  | 0.351% |
| 49 | 12.375 | 1745 | 1749 | 1751 | rBV  | 2504005 | 2420727 | 50.13% | 2.652% |
| 50 | 12.398 | 1751 | 1753 | 1755 | rVB  | 2440508 | 1826845 | 37.83% | 2.001% |
| 51 | 12.504 | 1764 | 1771 | 1774 | rBV  | 4072009 | 4808035 | 99.57% | 5.267% |
| 52 | 12.604 | 1786 | 1788 | 1791 | rVV  | 337321  | 333314  | 6.90%  | 0.365% |
| 53 | 12.645 | 1793 | 1795 | 1803 | rVB  | 175892  | 195843  | 4.06%  | 0.215% |
| 54 | 12.727 | 1803 | 1809 | 1813 | rBV2 | 3273750 | 4490566 | 93.00% | 4.919% |
| 55 | 12.769 | 1814 | 1816 | 1822 | rVB2 | 210104  | 272493  | 5.64%  | 0.298% |
| 56 | 12.839 | 1825 | 1828 | 1830 | rBV  | 276517  | 258356  | 5.35%  | 0.283% |
| 57 | 12.874 | 1830 | 1834 | 1837 | rVB  | 2789554 | 2779818 | 57.57% | 3.045% |
| 58 | 12.945 | 1840 | 1846 | 1849 | rBV2 | 322139  | 526437  | 10.90% | 0.577% |
| 59 | 13.027 | 1857 | 1860 | 1861 | rBV2 | 233235  | 206777  | 4.28%  | 0.226% |
| 60 | 13.051 | 1861 | 1864 | 1867 | rVB2 | 581532  | 577904  | 11.97% | 0.633% |
| 61 | 13.116 | 1872 | 1875 | 1878 | rBV  | 410431  | 379583  | 7.86%  | 0.416% |
| 62 | 13.151 | 1878 | 1881 | 1884 | rVV  | 393159  | 395198  | 8.18%  | 0.433% |
| 63 | 13.216 | 1889 | 1892 | 1895 | rBV5 | 129490  | 159285  | 3.30%  | 0.174% |
| 64 | 13.245 | 1895 | 1897 | 1900 | rVV  | 193580  | 177306  | 3.67%  | 0.194% |
| 65 | 13.274 | 1900 | 1902 | 1906 | rVB2 | 203128  | 190903  | 3.95%  | 0.209% |
| 66 | 13.351 | 1912 | 1915 | 1919 | rBV4 | 79881   | 103835  | 2.15%  | 0.114% |
| 67 | 13.410 | 1922 | 1925 | 1927 | rBV  | 85221   | 88320   | 1.83%  | 0.097% |
| 68 | 13.551 | 1946 | 1949 | 1954 | rVB  | 388474  | 408637  | 8.46%  | 0.448% |
| 69 | 13.663 | 1964 | 1968 | 1971 | rBV2 | 359827  | 468979  | 9.71%  | 0.514% |
| 70 | 13.698 | 1971 | 1974 | 1975 | rVV  | 327217  | 309042  | 6.40%  | 0.339% |
| 71 | 13.716 | 1975 | 1977 | 1982 | rVV2 | 304541  | 458233  | 9.49%  | 0.502% |

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Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HD-01-062617

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-BF062717.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|     |        |      |      |      |      |         |         |        |        |
|-----|--------|------|------|------|------|---------|---------|--------|--------|
| 72  | 13.763 | 1982 | 1985 | 1991 | rVB2 | 473145  | 664071  | 13.75% | 0.727% |
| 73  | 13.916 | 2003 | 2011 | 2014 | rVV3 | 2197444 | 3363411 | 69.66% | 3.684% |
| 74  | 13.945 | 2014 | 2016 | 2022 | rVB  | 1809957 | 1712825 | 35.47% | 1.876% |
| 75  | 14.021 | 2024 | 2029 | 2032 | rBV  | 412863  | 413789  | 8.57%  | 0.453% |
| 76  | 14.057 | 2032 | 2035 | 2037 | rVV  | 168753  | 174224  | 3.61%  | 0.191% |
| 77  | 14.098 | 2040 | 2042 | 2045 | rVB  | 233396  | 218704  | 4.53%  | 0.240% |
| 78  | 14.133 | 2045 | 2048 | 2053 | rBV3 | 265839  | 311193  | 6.44%  | 0.341% |
| 79  | 14.239 | 2062 | 2066 | 2068 | rBV2 | 115965  | 127258  | 2.64%  | 0.139% |
| 80  | 14.269 | 2068 | 2071 | 2073 | rBV  | 144547  | 147272  | 3.05%  | 0.161% |
| 81  | 14.304 | 2073 | 2077 | 2079 | rVV  | 396182  | 428542  | 8.88%  | 0.469% |
| 82  | 14.333 | 2079 | 2082 | 2085 | rVB2 | 227003  | 225238  | 4.66%  | 0.247% |
| 83  | 14.398 | 2090 | 2093 | 2095 | rVV4 | 237717  | 305916  | 6.34%  | 0.335% |
| 84  | 14.427 | 2095 | 2098 | 2100 | rVV  | 269281  | 317559  | 6.58%  | 0.348% |
| 85  | 14.445 | 2100 | 2101 | 2105 | rVV3 | 233818  | 219164  | 4.54%  | 0.240% |
| 86  | 14.498 | 2105 | 2110 | 2114 | rVB4 | 138445  | 248634  | 5.15%  | 0.272% |
| 87  | 14.598 | 2125 | 2127 | 2130 | rBV2 | 77183   | 101471  | 2.10%  | 0.111% |
| 88  | 14.768 | 2152 | 2156 | 2161 | rBV3 | 164780  | 348221  | 7.21%  | 0.381% |
| 89  | 14.945 | 2180 | 2186 | 2188 | rBV  | 1641066 | 2637626 | 54.62% | 2.889% |
| 90  | 15.039 | 2199 | 2202 | 2206 | rVB  | 455054  | 476174  | 9.86%  | 0.522% |
| 91  | 15.145 | 2214 | 2220 | 2223 | rBV2 | 123510  | 263159  | 5.45%  | 0.288% |
| 92  | 15.180 | 2224 | 2226 | 2229 | rVV3 | 120736  | 154153  | 3.19%  | 0.169% |
| 93  | 15.227 | 2230 | 2234 | 2240 | rVB  | 1007985 | 1401805 | 29.03% | 1.536% |
| 94  | 15.292 | 2240 | 2245 | 2250 | rBV  | 1525349 | 1973421 | 40.87% | 2.162% |
| 95  | 15.345 | 2250 | 2254 | 2257 | rBV  | 755722  | 995847  | 20.62% | 1.091% |
| 96  | 15.374 | 2257 | 2259 | 2266 | rVB  | 550332  | 716298  | 14.83% | 0.785% |
| 97  | 16.745 | 2486 | 2492 | 2500 | rVB2 | 783358  | 1565811 | 32.43% | 1.715% |
| 98  | 16.904 | 2516 | 2519 | 2524 | rVB  | 123241  | 172262  | 3.57%  | 0.189% |
| 99  | 17.162 | 2556 | 2563 | 2572 | rVB  | 580388  | 1210811 | 25.08% | 1.326% |
| 100 | 17.374 | 2595 | 2599 | 2605 | rVB  | 137378  | 234594  | 4.86%  | 0.257% |

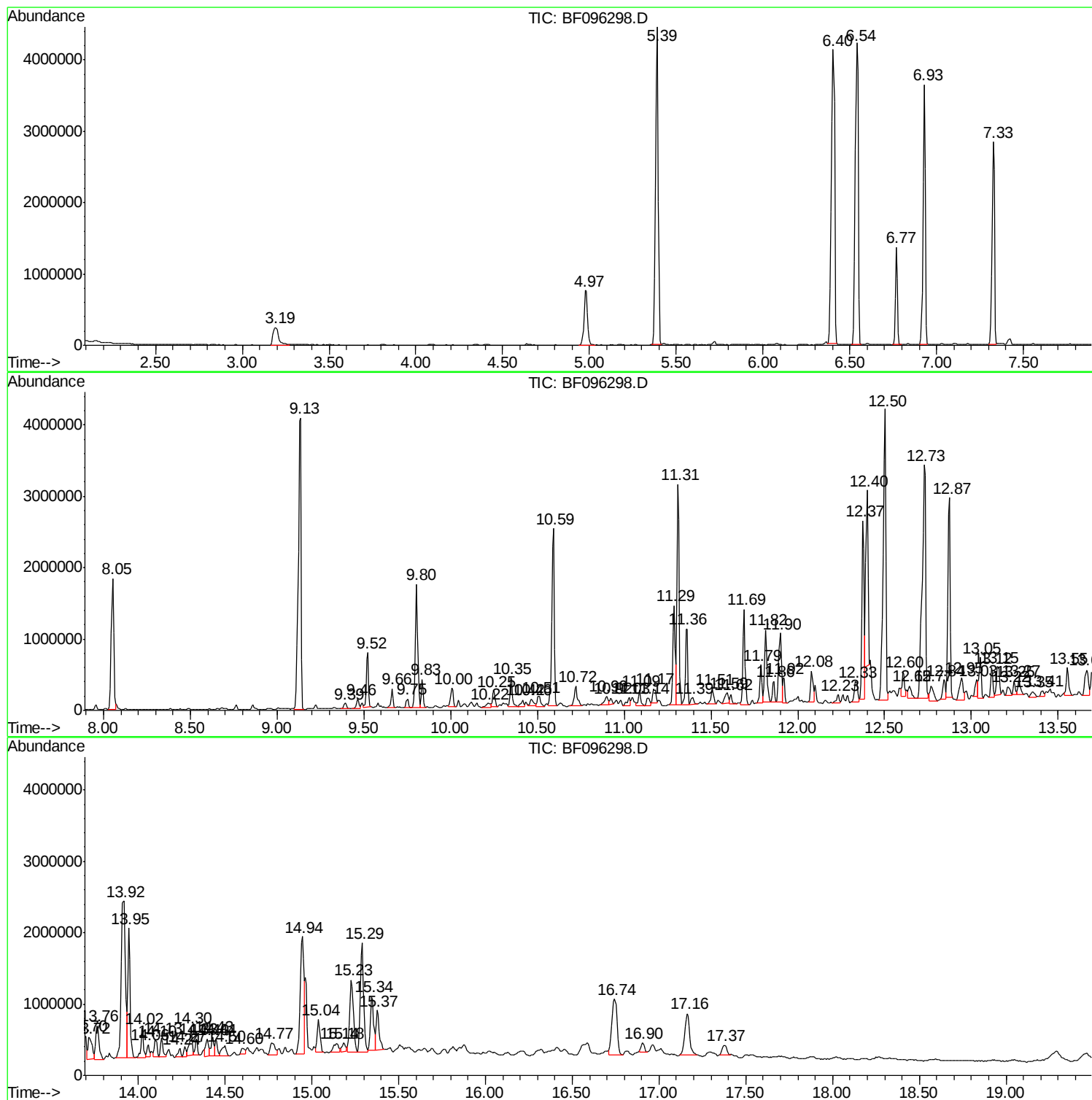
Sum of corrected areas: 91292737

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Instrument :  
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ClientSampleId :  
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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF062717.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\HPCHEM1\BNA F\DATA\BF062917\  
Data File : BF096298.D  
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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF062717.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

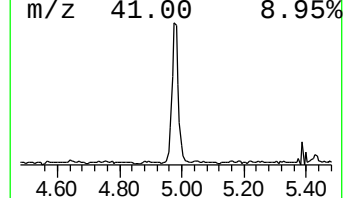
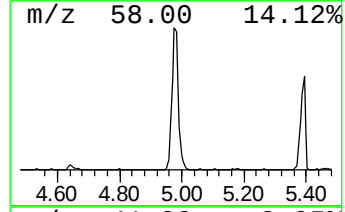
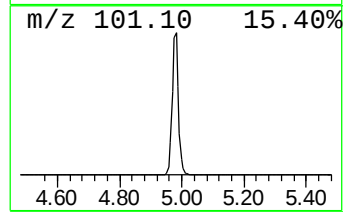
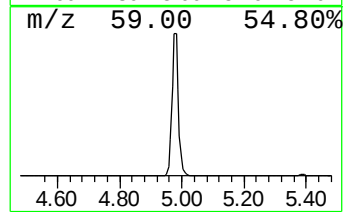
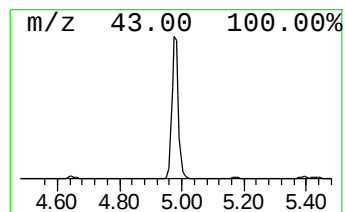
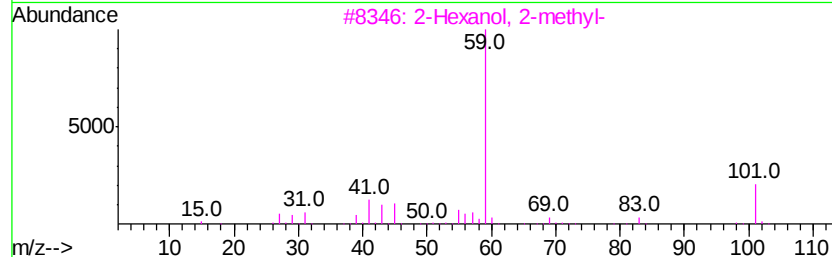
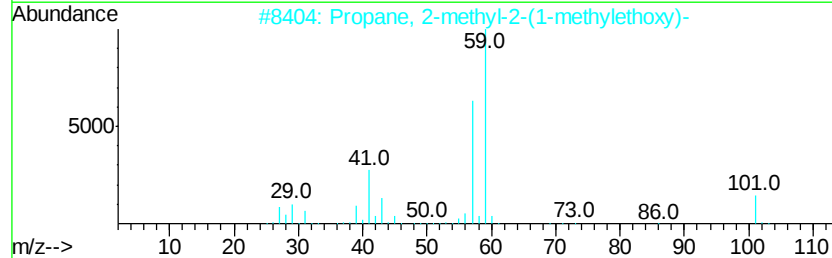
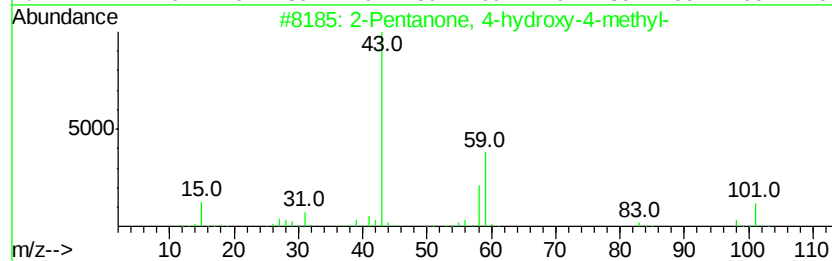
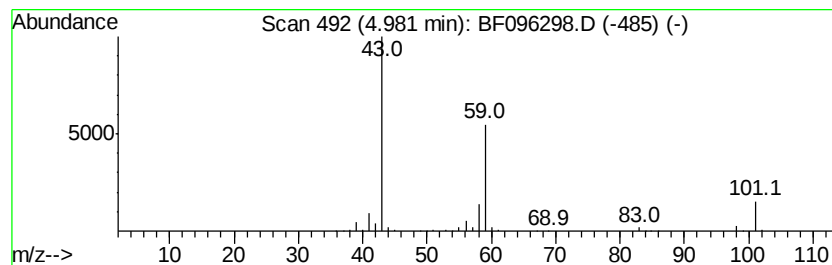
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 6

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 4.98 | 19.03 ng | 1079790 | 1,4-Dichlorobenzene-d4 | 6.77 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | 2-Pentanone, 4-hydroxy-4-methyl-    | 116 | C6H12O2  | 000123-42-2 | 40   |
| 2    |    | Propane, 2-methyl-2-(1-methyleth... | 116 | C7H16O   | 017348-59-3 | 36   |
| 3    |    | 2-Hexanol, 2-methyl-                | 116 | C7H16O   | 000625-23-0 | 33   |
| 4    |    | 3-Hexanol, 4-methyl-                | 116 | C7H16O   | 000615-29-2 | 33   |
| 5    |    | Acetic acid, cyano-, 1,1-dimethy... | 141 | C7H11NO2 | 001116-98-9 | 32   |



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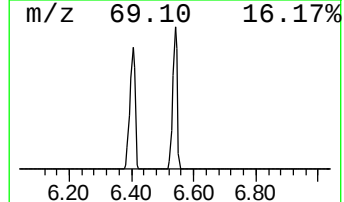
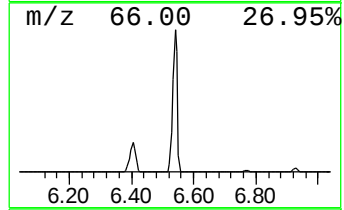
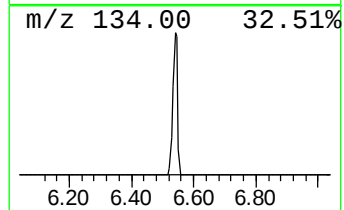
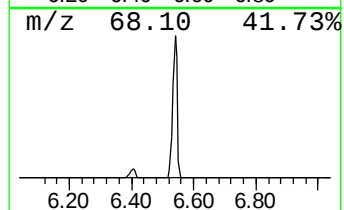
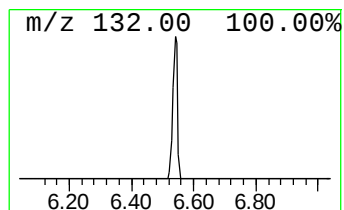
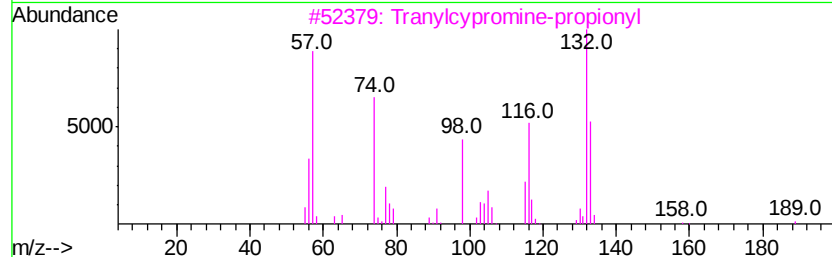
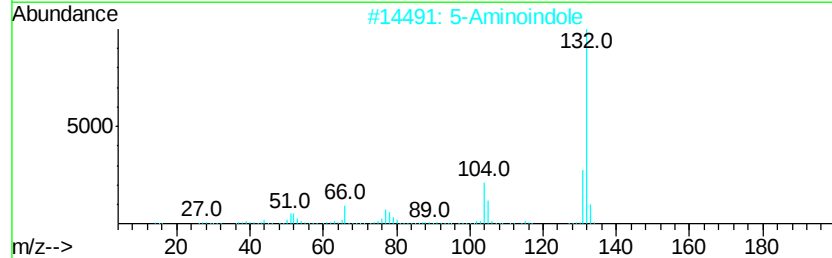
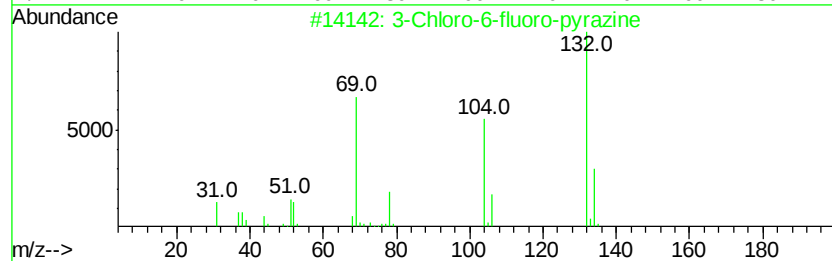
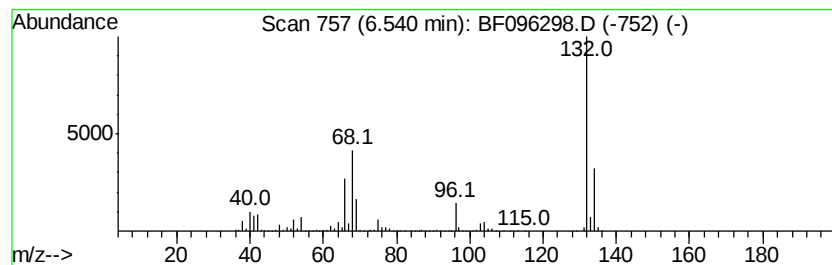
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF062717.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 3 unknown6.54 Concentration Rank 1

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.54 | 79.86 ng | 4531160 | 1,4-Dichlorobenzene-d4 | 6.77 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 3-Chloro-6-fluoro-pyrazine          | 132 | C4H2ClFN2 | 1000146-10-7 | 27   |
| 2    |    | 5-Aminoindole                       | 132 | C8H8N2    | 005192-03-0  | 12   |
| 3    |    | Tranvlcypropine-propionyl           | 189 | C12H15NO  | 1000123-86-3 | 10   |
| 4    |    | Bicyclo[4.2.0]octa-1,3,5-triene,... | 132 | C10H12    | 028749-81-7  | 9    |
| 5    |    | 5-Fluoro-2-chloropyrimidine         | 132 | C4H2ClFN2 | 062802-42-0  | 9    |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF062917\  
Data File : BF096298.D  
Acq On : 29 Jun 2017 18:17  
Operator : SJ/MA  
Sample : I3925-01  
Misc :  
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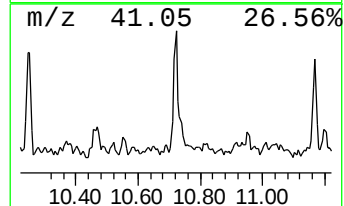
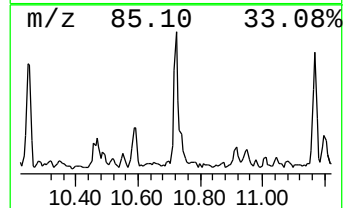
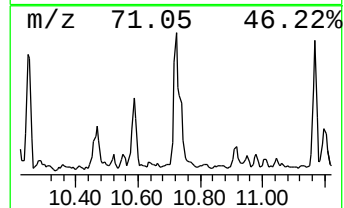
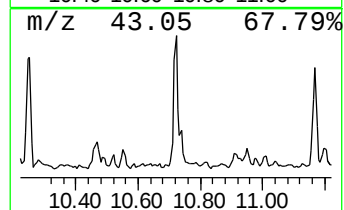
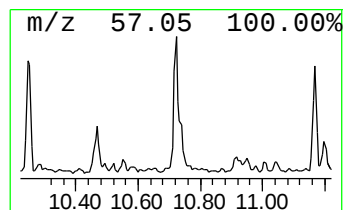
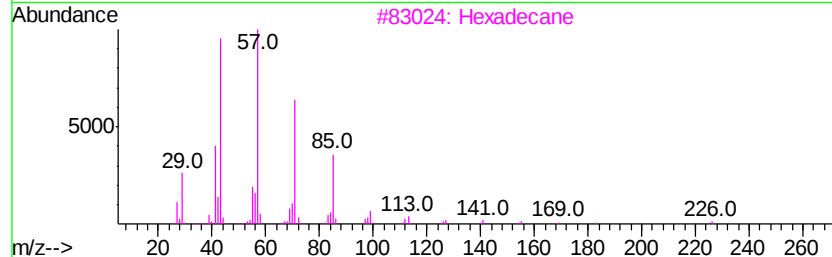
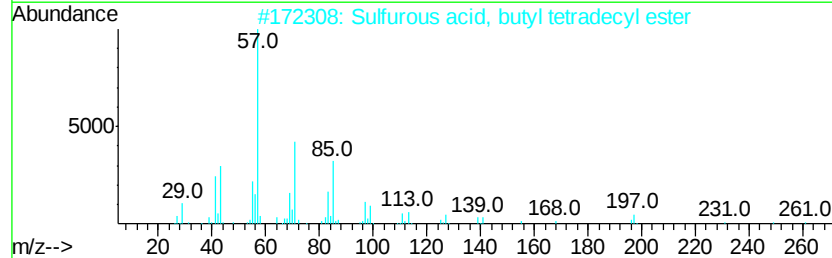
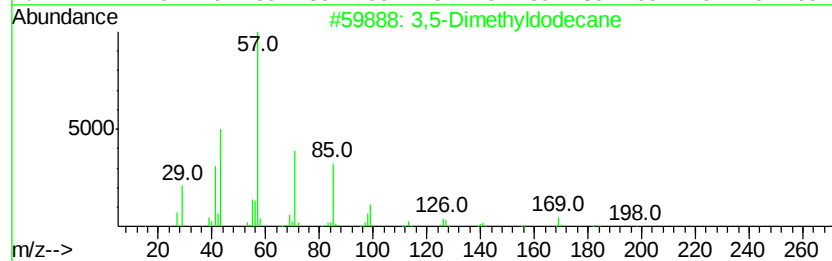
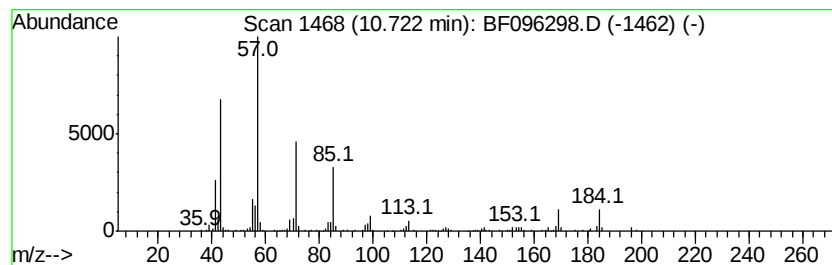
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HD-01-062617

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 6 3,5-Dimethyldodecane Concentration Rank 15

| R.T.      | EstConc                             | Area   | Relative to ISTD | R.T.         |      |
|-----------|-------------------------------------|--------|------------------|--------------|------|
| 10.72     | 5.22 ng                             | 379987 | Phenanthrene-d10 | 11.29        |      |
| Hit# of 5 | Tentative ID                        | MW     | MolForm          | CAS#         | Qual |
| 1         | 3,5-Dimethyldodecane                | 198    | C14H30           | 107770-99-0  | 72   |
| 2         | Sulfurous acid, butyl tetradecyl... | 334    | C18H38O3S        | 1000309-18-1 | 72   |
| 3         | Hexadecane                          | 226    | C16H34           | 000544-76-3  | 72   |
| 4         | Heptacosane                         | 380    | C27H56           | 000593-49-7  | 59   |
| 5         | Sulfurous acid, 2-ethylhexyl hex... | 278    | C14H30O3S        | 1000309-20-2 | 58   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF062917\  
Data File : BF096298.D  
Acq On : 29 Jun 2017 18:17  
Operator : SJ/MA  
Sample : I3925-01  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

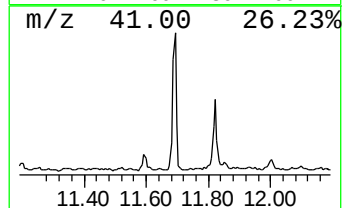
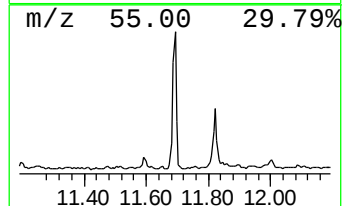
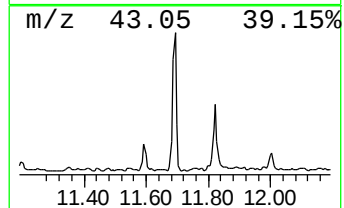
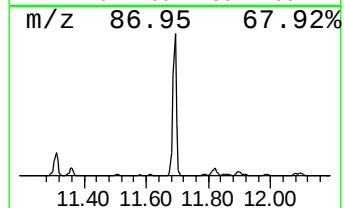
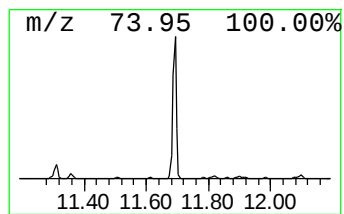
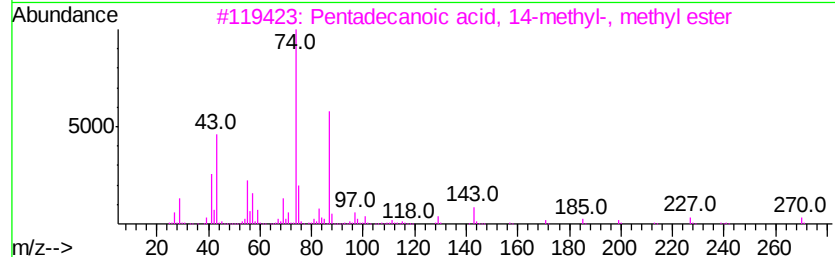
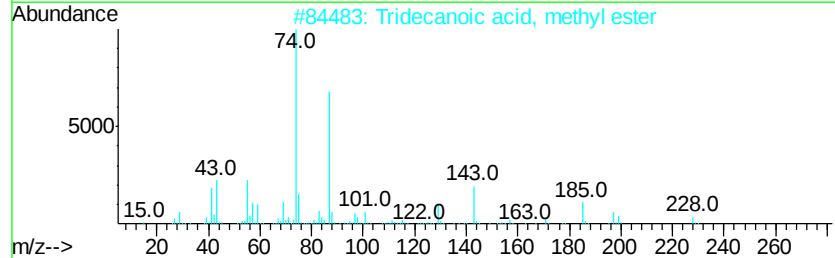
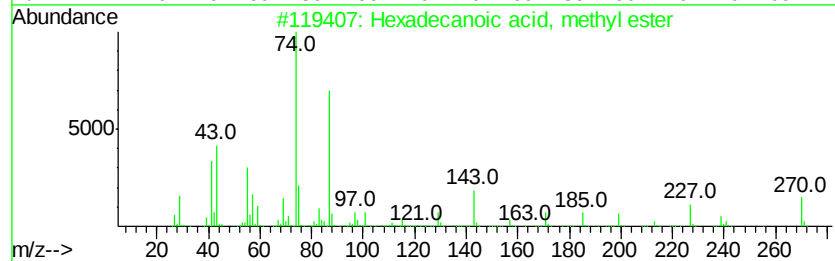
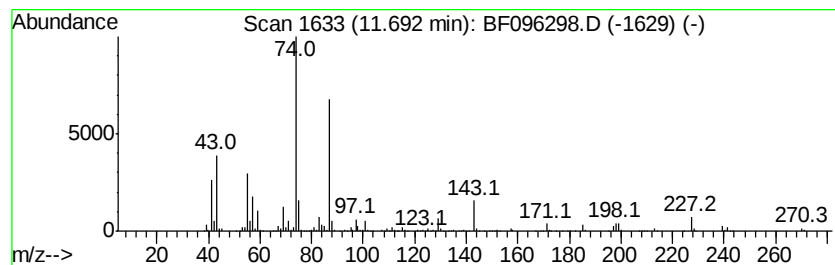
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ClientSampleId :  
HD-01-062617

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF062717.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 7 Hexadecanoic acid, methyl e... Concentration Rank 7

| R.T.      | EstConc                             | Area    | Relative to ISTD | R.T.        |      |
|-----------|-------------------------------------|---------|------------------|-------------|------|
| 11.69     | 15.55 ng                            | 1133010 | Phenanthrene-d10 | 11.29       |      |
| Hit# of 5 | Tentative ID                        | MW      | MolForm          | CAS#        | Qual |
| 1         | Hexadecanoic acid, methyl ester     | 270     | C17H34O2         | 000112-39-0 | 92   |
| 2         | Tridecanoic acid, methyl ester      | 228     | C14H28O2         | 001731-88-0 | 91   |
| 3         | Pentadecanoic acid, 14-methyl-, ... | 270     | C17H34O2         | 005129-60-2 | 91   |
| 4         | Methyl tetradecanoate               | 242     | C15H30O2         | 000124-10-7 | 90   |
| 5         | Hexadecanoic acid, 15-methyl-, m... | 284     | C18H36O2         | 006929-04-0 | 87   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF062917\  
Data File : BF096298.D  
Acq On : 29 Jun 2017 18:17  
Operator : SJ/MA  
Sample : I3925-01  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

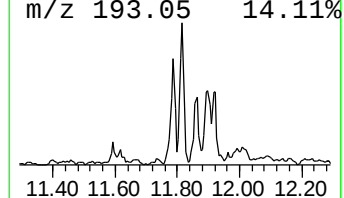
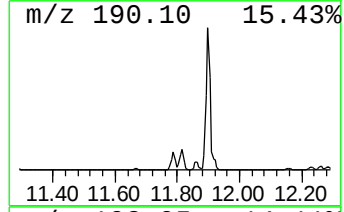
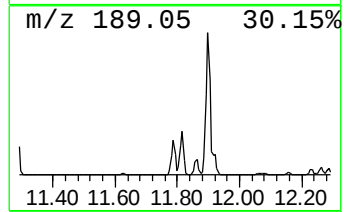
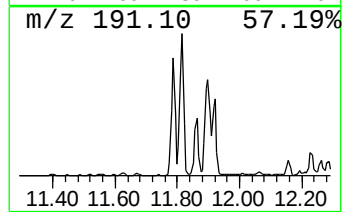
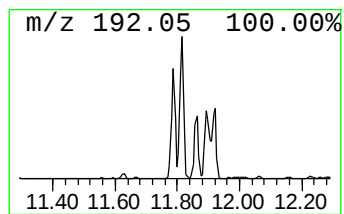
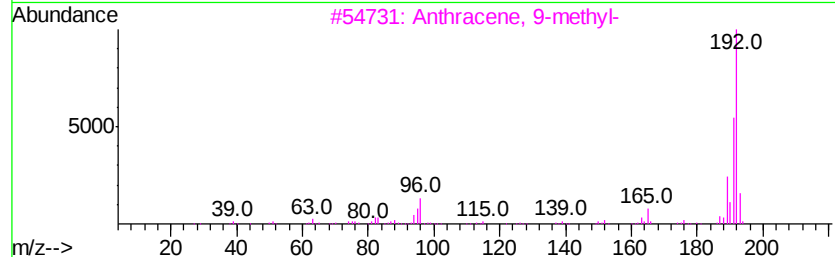
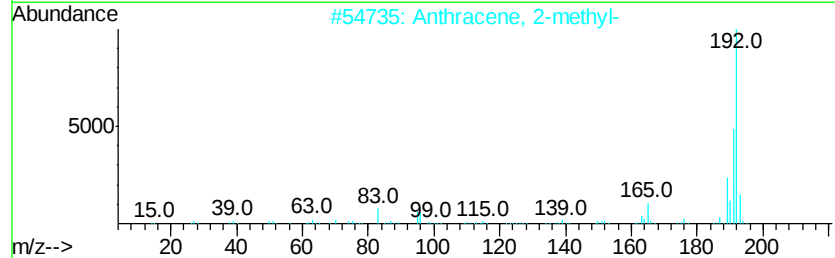
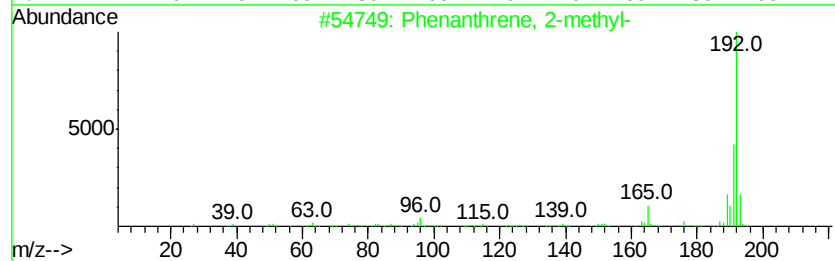
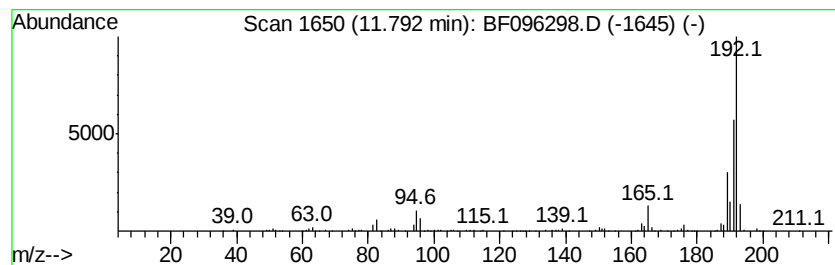
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ClientSampleId :  
HD-01-062617

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF062717.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 8 Phenanthrene, 2-methyl- Concentration Rank 13

| R.T.      | EstConc                 | Area   | Relative to ISTD | R.T.        |      |
|-----------|-------------------------|--------|------------------|-------------|------|
| 11.79     | 6.30 ng                 | 459106 | Phenanthrene-d10 | 11.29       |      |
| Hit# of 5 | Tentative ID            | MW     | MolForm          | CAS#        | Qual |
| 1         | Phenanthrene, 2-methyl- | 192    | C15H12           | 002531-84-2 | 96   |
| 2         | Anthracene, 2-methyl-   | 192    | C15H12           | 000613-12-7 | 95   |
| 3         | Anthracene, 9-methyl-   | 192    | C15H12           | 000779-02-2 | 93   |
| 4         | Anthracene, 1-methyl-   | 192    | C15H12           | 000610-48-0 | 93   |
| 5         | Phenanthrene, 3-methyl- | 192    | C15H12           | 000832-71-3 | 93   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF062917\  
Data File : BF096298.D  
Acq On : 29 Jun 2017 18:17  
Operator : SJ/MA  
Sample : I3925-01  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HD-01-062617

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF062717.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

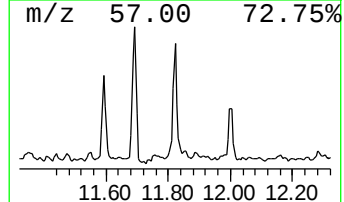
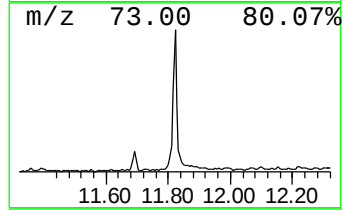
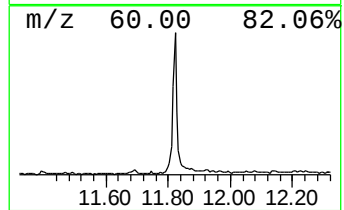
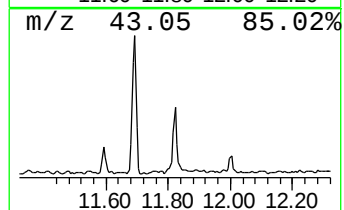
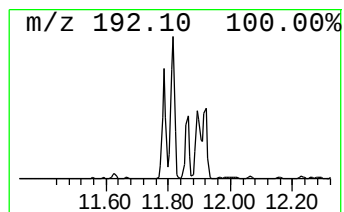
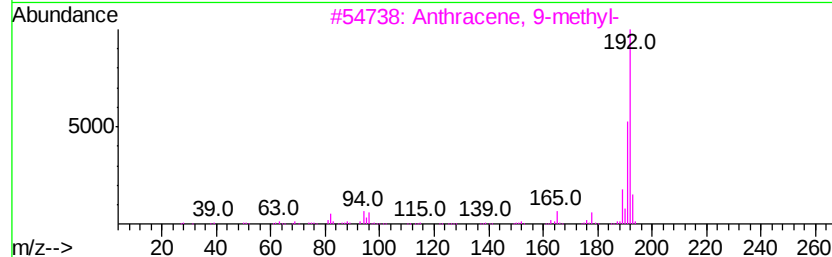
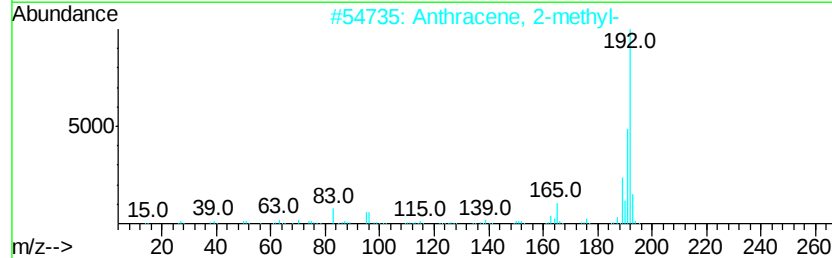
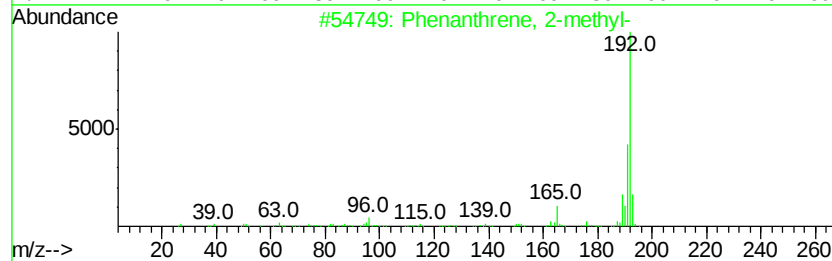
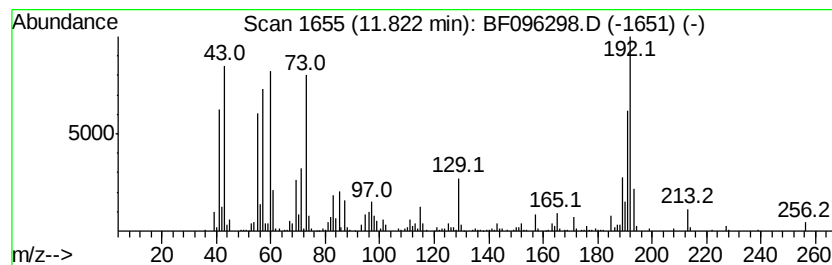
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TIC Integration Parameters: LSCINT.P

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Peak Number 9 Anthracene, 1-methyl- Concentration Rank 8

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 11.82 | 13.69 ng | 997130 | Phenanthrene-d10 | 11.29 |

| Hit# of 5 | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|-----------|-------------------------|-----|---------|-------------|------|
| 1         | Phenanthrene, 2-methyl- | 192 | C15H12  | 002531-84-2 | 97   |
| 2         | Anthracene, 2-methyl-   | 192 | C15H12  | 000613-12-7 | 95   |
| 3         | Anthracene, 9-methyl-   | 192 | C15H12  | 000779-02-2 | 94   |
| 4         | Phenanthrene, 1-methyl- | 192 | C15H12  | 000832-69-9 | 93   |
| 5         | Anthracene, 1-methyl-   | 192 | C15H12  | 000610-48-0 | 93   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF062917\  
Data File : BF096298.D  
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Operator : SJ/MA  
Sample : I3925-01  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

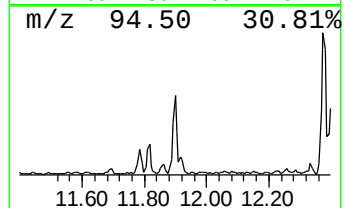
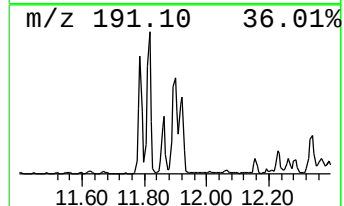
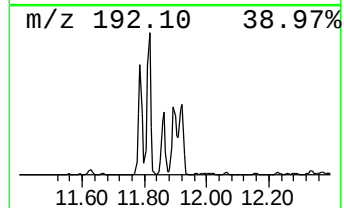
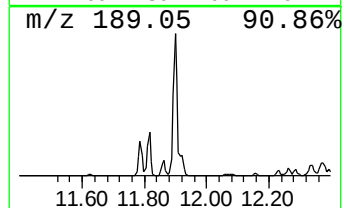
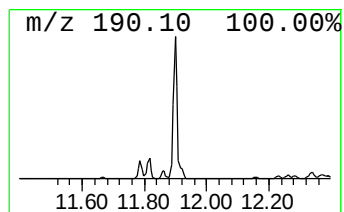
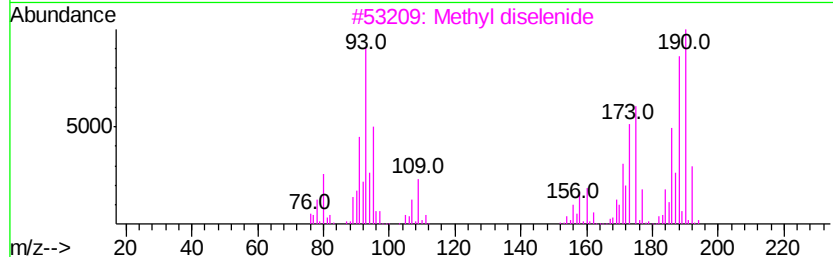
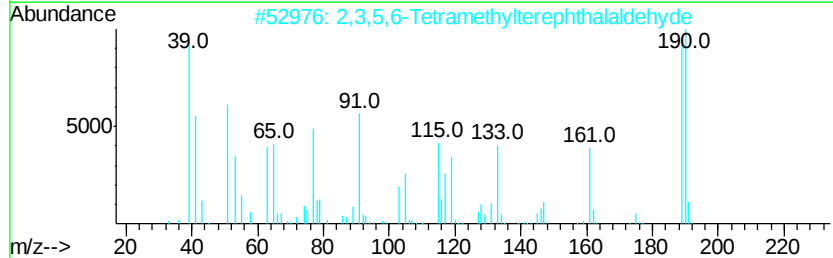
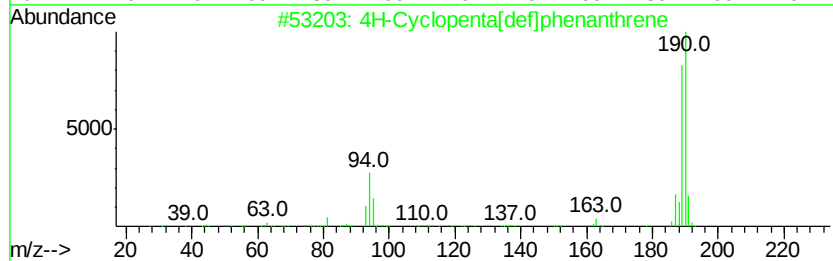
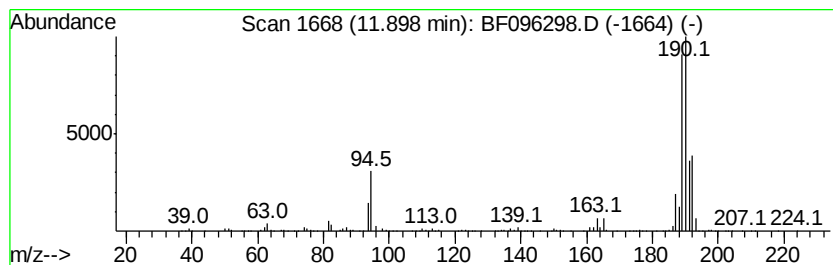
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ClientSampleId :  
HD-01-062617

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF062717.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 10 4H-Cyclopenta[def]phenanthrene Concentration Rank 9

| R.T.      | EstConc                             | Area   | Relative to ISTD | R.T.        |      |
|-----------|-------------------------------------|--------|------------------|-------------|------|
| 11.90     | 13.17 ng                            | 959094 | Phenanthrene-d10 | 11.29       |      |
| Hit# of 5 | Tentative ID                        | MW     | MolForm          | CAS#        | Qual |
| 1         | 4H-Cyclopenta[def]phenanthrene      | 190    | C15H10           | 000203-64-5 | 76   |
| 2         | 2,3,5,6-Tetramethylterephthalald... | 190    | C12H14O2         | 007072-01-7 | 43   |
| 3         | Methyl diselenide                   | 190    | C2H6Se2          | 007101-31-7 | 43   |
| 4         | 2,2'-Bis(4,5-dimethylimidazole)     | 190    | C10H14N4         | 069286-06-2 | 37   |
| 5         | 1,4-Naphthalenedione, 2,5-dihydr... | 190    | C10H6O4          | 004923-55-1 | 16   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF062917\  
Data File : BF096298.D  
Acq On : 29 Jun 2017 18:17  
Operator : SJ/MA  
Sample : I3925-01  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HD-01-062617

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF062717.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

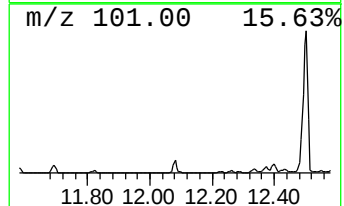
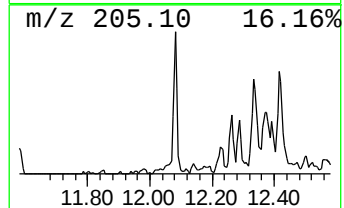
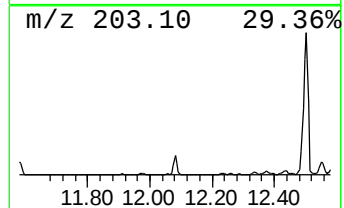
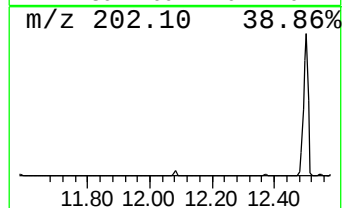
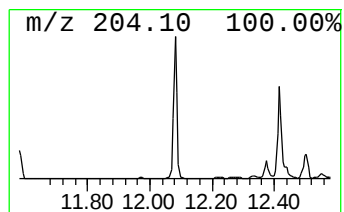
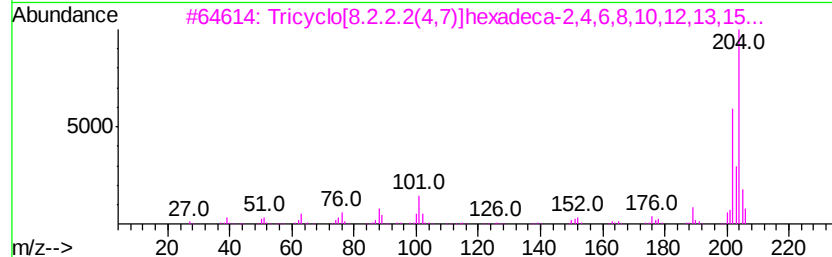
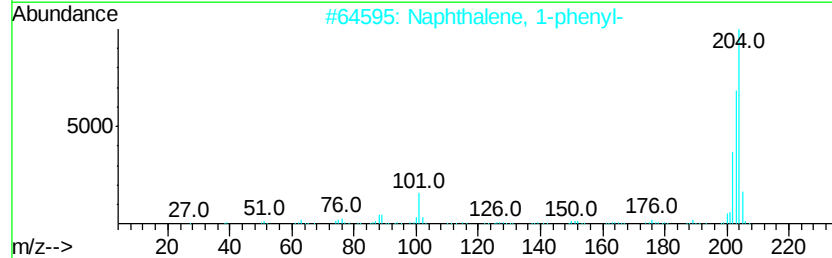
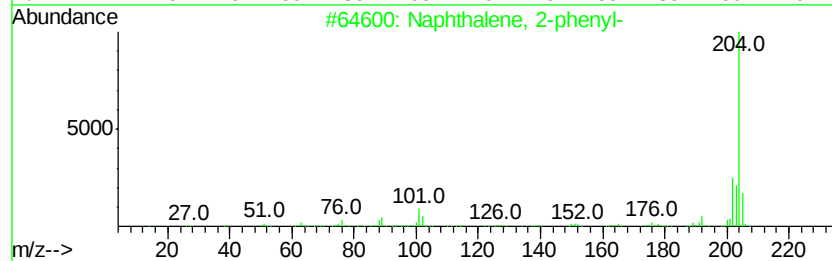
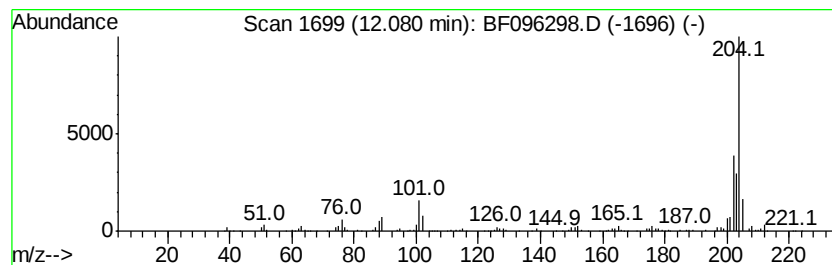
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 11 Naphthalene, 2-phenyl- Concentration Rank 17

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 12.08 | 4.99 ng | 363455 | Phenanthrene-d10 | 11.29 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | Naphthalene, 2-phenyl-              | 204 | C16H12   | 000612-94-2 | 95   |
| 2    |    | Naphthalene, 1-phenyl-              | 204 | C16H12   | 000605-02-7 | 78   |
| 3    |    | Tricyclo[8.2.2.2(4,7)]hexadeca-2... | 204 | C16H12   | 006572-60-7 | 58   |
| 4    |    | 3,4-Biphenyldicarbonitrile          | 204 | C14H8N2  | 004128-63-6 | 49   |
| 5    |    | [1,1'-Biphenyl]-2-ol, 5-chloro-     | 204 | C12H9ClO | 000607-12-5 | 49   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF062917\  
Data File : BF096298.D  
Acq On : 29 Jun 2017 18:17  
Operator : SJ/MA  
Sample : I3925-01  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HD-01-062617

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF062717.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

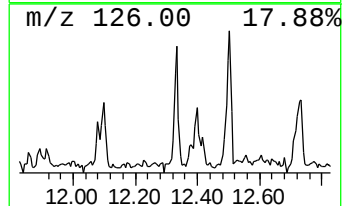
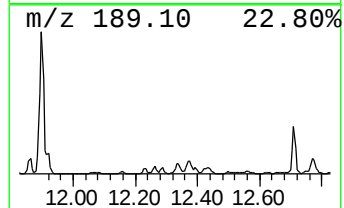
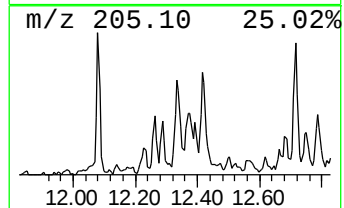
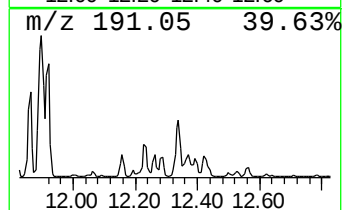
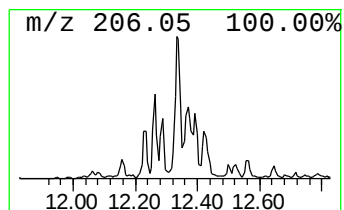
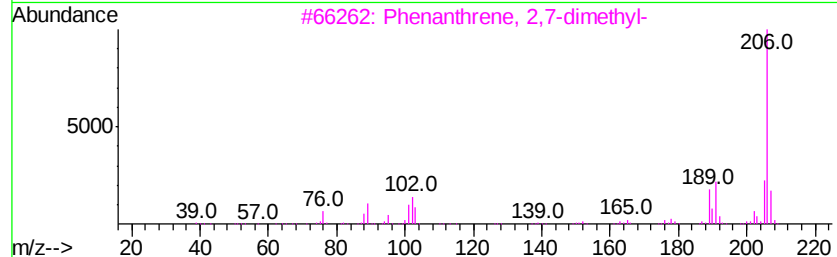
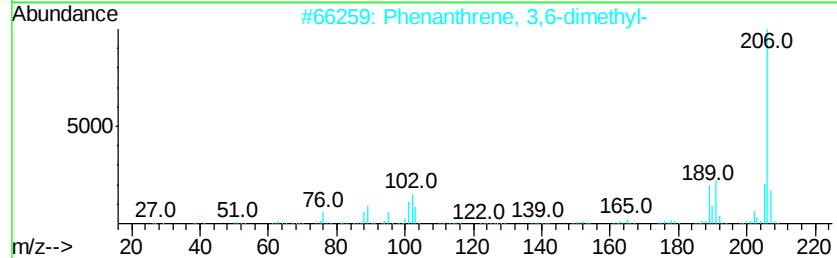
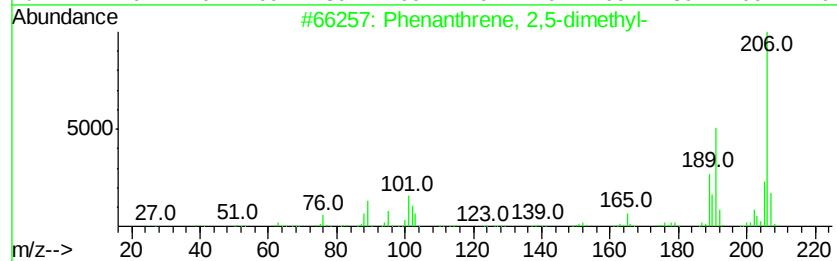
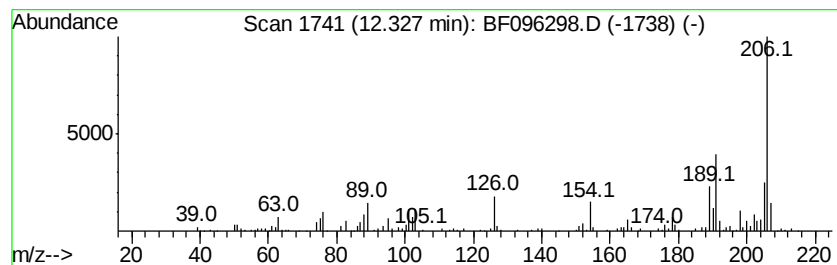
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 12 Phenanthrene, 2,5-dimethyl- Concentration Rank 20

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 12.33 | 4.40 ng | 320781 | Phenanthrene-d10 | 11.29 |

| Hit# | of | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------------|-----|---------|-------------|------|
| 1    | 5  | Phenanthrene, 2,5-dimethyl- | 206 | C16H14  | 003674-66-6 | 93   |
| 2    |    | Phenanthrene, 3,6-dimethyl- | 206 | C16H14  | 001576-67-6 | 93   |
| 3    |    | Phenanthrene, 2,7-dimethyl- | 206 | C16H14  | 001576-69-8 | 93   |
| 4    |    | Phenanthrene, 2,3-dimethyl- | 206 | C16H14  | 003674-65-5 | 91   |
| 5    |    | 9,10-Dimethylantracene      | 206 | C16H14  | 000781-43-1 | 90   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF062917\  
Data File : BF096298.D  
Acq On : 29 Jun 2017 18:17  
Operator : SJ/MA  
Sample : I3925-01  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HD-01-062617

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF062717.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

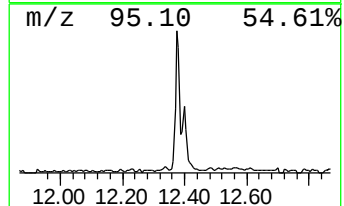
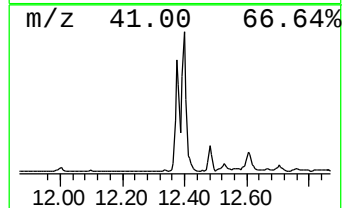
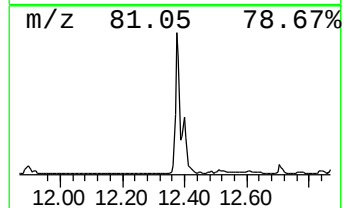
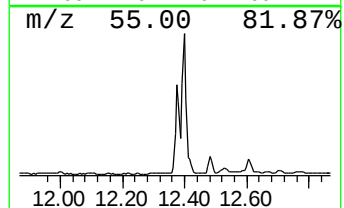
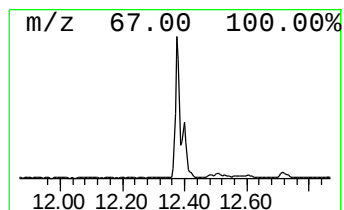
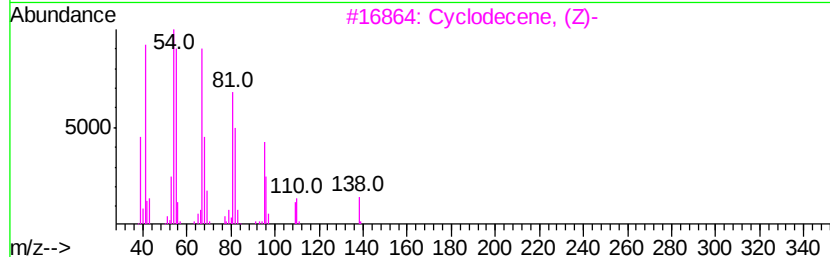
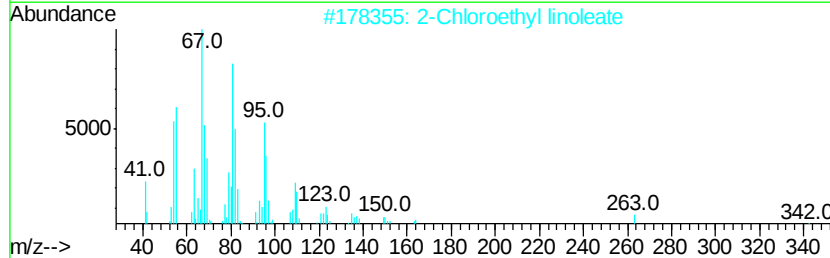
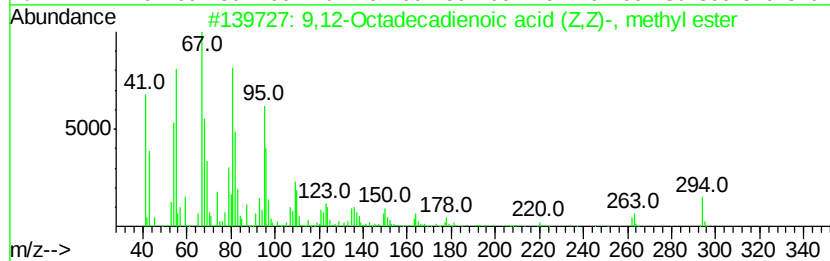
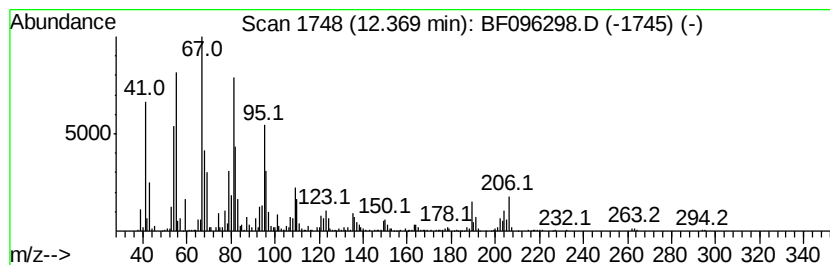
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 13 9,12-Octadecadienoic acid (... Concentration Rank 3

| R.T.  | EstConc  | Area    | Relative to ISTD | R.T.  |
|-------|----------|---------|------------------|-------|
| 12.37 | 33.23 ng | 2420730 | Phenanthrene-d10 | 11.29 |

| Hit# | of | Tentative ID                        | MW  | MolForm    | CAS#        | Qual |
|------|----|-------------------------------------|-----|------------|-------------|------|
| 1    | 5  | 9,12-Octadecadienoic acid (Z,Z)-... | 294 | C19H34O2   | 000112-63-0 | 98   |
| 2    |    | 2-Chloroethyl linoleate             | 342 | C20H35ClO2 | 025525-76-2 | 94   |
| 3    |    | Cyclodecene, (Z)-                   | 138 | C10H18     | 000935-31-9 | 93   |
| 4    |    | 11,14-Octadecadienoic acid, meth... | 294 | C19H34O2   | 056554-61-1 | 93   |
| 5    |    | 9,12-Octadecadienoic acid (Z,Z)-    | 280 | C18H32O2   | 000060-33-3 | 93   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF062917\  
Data File : BF096298.D  
Acq On : 29 Jun 2017 18:17  
Operator : SJ/MA  
Sample : I3925-01  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HD-01-062617

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF062717.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

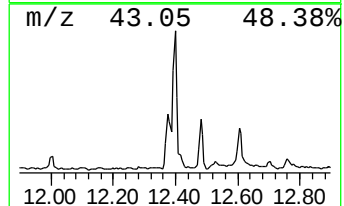
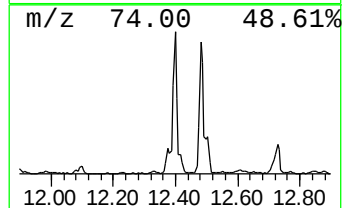
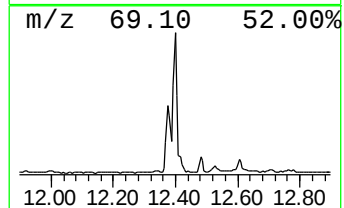
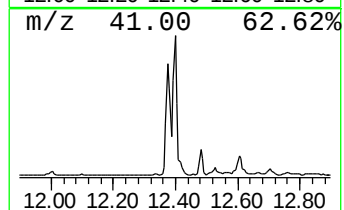
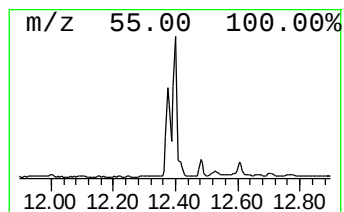
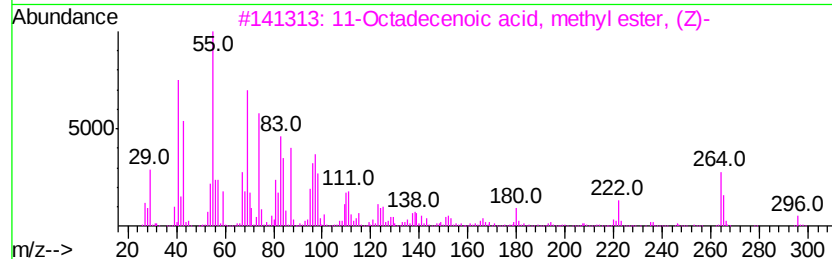
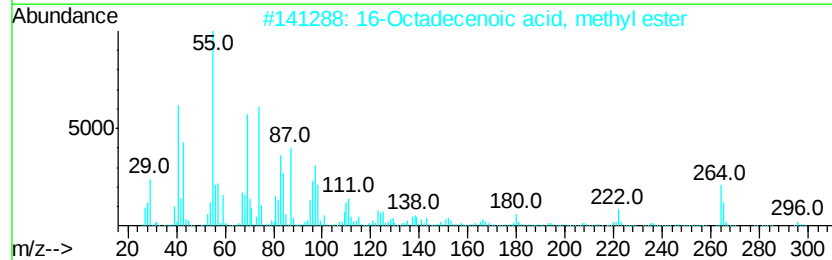
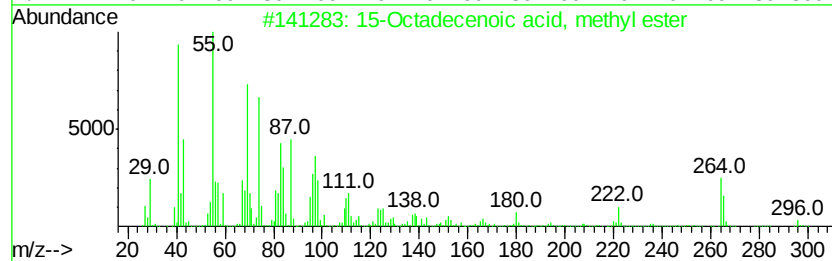
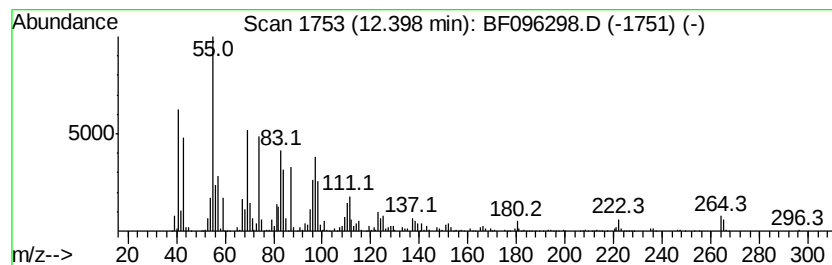
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 14 15-Octadecenoic acid, methyl... Concentration Rank 5

| R.T.  | EstConc  | Area    | Relative to ISTD | R.T.  |
|-------|----------|---------|------------------|-------|
| 12.40 | 25.08 ng | 1826850 | Phenanthrene-d10 | 11.29 |

| Hit# | of | Tentative ID                          | MW  | MolForm  | CAS#        | Qual |
|------|----|---------------------------------------|-----|----------|-------------|------|
| 1    | 5  | 15-Octadecenoic acid, methyl ester    | 296 | C19H36O2 | 004764-72-1 | 97   |
| 2    |    | 16-Octadecenoic acid, methyl ester    | 296 | C19H36O2 | 056554-49-5 | 97   |
| 3    |    | 11-Octadecenoic acid, methyl ester... | 296 | C19H36O2 | 001937-63-9 | 94   |
| 4    |    | 9-Octadecenoic acid, methyl ester     | 296 | C19H36O2 | 002462-84-2 | 91   |
| 5    |    | 9-Octadecenoic acid, methyl ester...  | 296 | C19H36O2 | 001937-62-8 | 91   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF062917\  
Data File : BF096298.D  
Acq On : 29 Jun 2017 18:17  
Operator : SJ/MA  
Sample : I3925-01  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

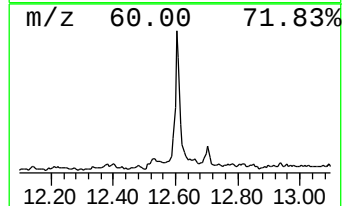
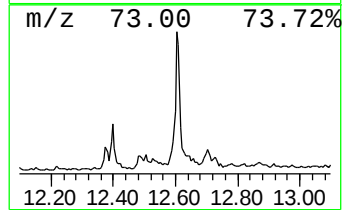
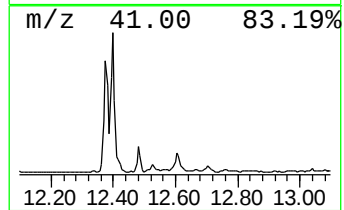
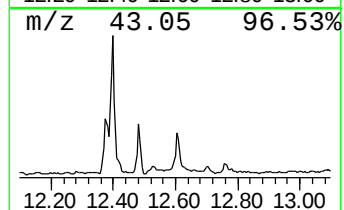
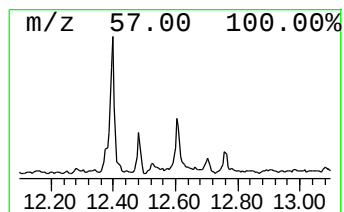
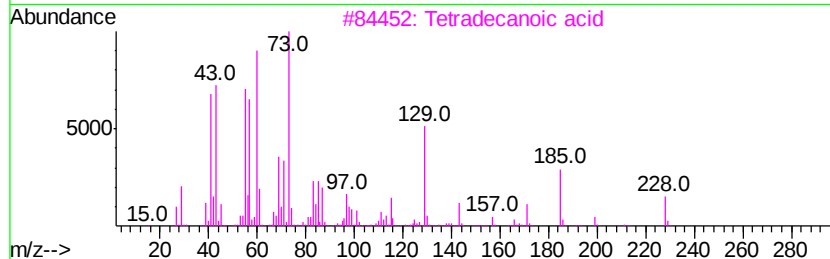
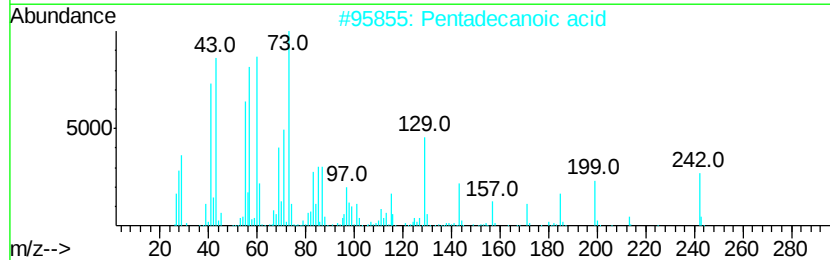
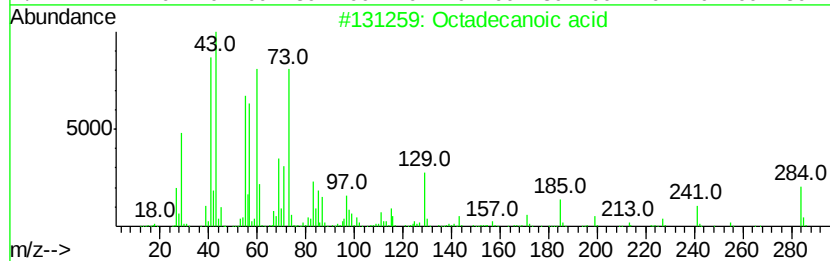
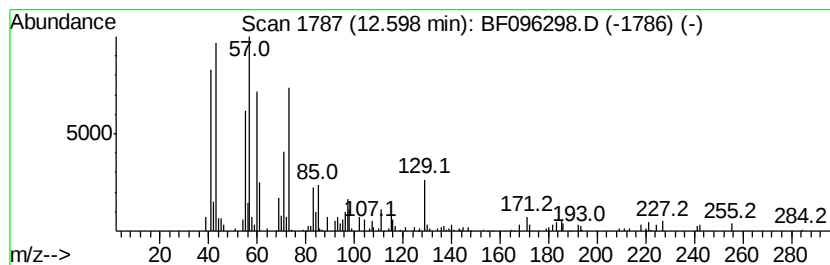
Instrument :  
BNA\_F  
ClientSampleId :  
HD-01-062617

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF062717.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 19

| R.T.      | EstConc            | Area   | Relative to ISTD | R.T.        |      |
|-----------|--------------------|--------|------------------|-------------|------|
| 12.60     | 4.58 ng            | 333314 | Phenanthrene-d10 | 11.29       |      |
| Hit# of 5 | Tentative ID       | MW     | MolForm          | CAS#        | Qual |
| 1         | Octadecanoic acid  | 284    | C18H36O2         | 000057-11-4 | 94   |
| 2         | Pentadecanoic acid | 242    | C15H30O2         | 001002-84-2 | 90   |
| 3         | Tetradecanoic acid | 228    | C14H28O2         | 000544-63-8 | 76   |
| 4         | n-Decanoic acid    | 172    | C10H20O2         | 000334-48-5 | 62   |
| 5         | Dodecanoic acid    | 200    | C12H24O2         | 000143-07-7 | 53   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF062917\  
Data File : BF096298.D  
Acq On : 29 Jun 2017 18:17  
Operator : SJ/MA  
Sample : I3925-01  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HD-01-062617

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF062717.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

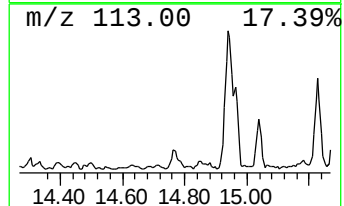
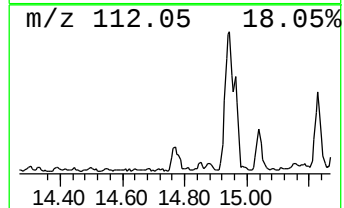
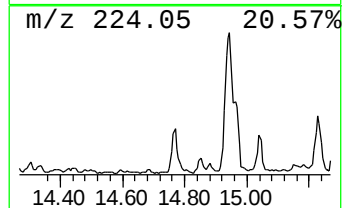
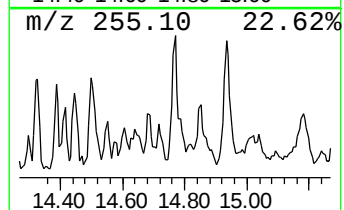
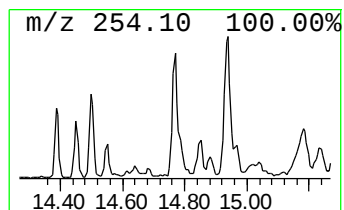
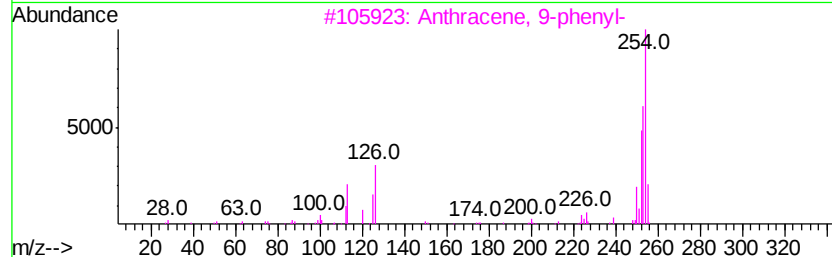
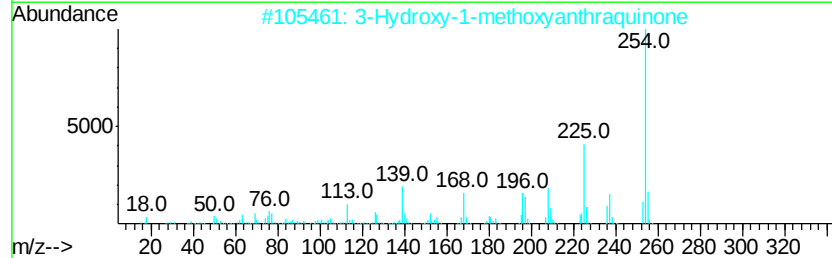
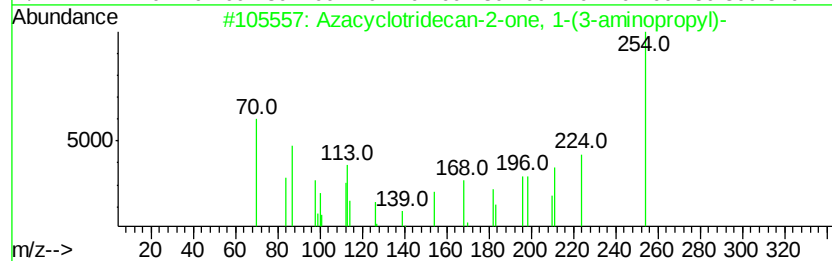
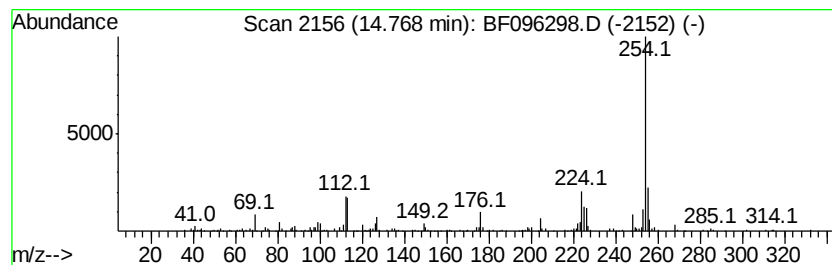
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 16 Azacyclotridecan-2-one, 1-(... Concentration Rank 12

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 14.77 | 6.99 ng | 348221 | Perylene-d12     | 15.35 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm    | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|------------|--------------|------|
| 1    |    |   | Azacyclotridecan-2-one, 1-(3-ami... | 254 | C15H30N2O  | 064414-61-5  | 94   |
| 2    |    |   | 3-Hydroxy-1-methoxyvanthraquinone   | 254 | C15H10O4   | 028504-24-7  | 59   |
| 3    |    |   | Anthracene, 9-phenyl-               | 254 | C20H14     | 000602-55-1  | 58   |
| 4    |    |   | 1,1'-Binaphthalene                  | 254 | C20H14     | 000604-53-5  | 50   |
| 5    |    |   | 1H-Pyrano[2,3-c]pyrazol-6-one, 3... | 254 | C15H14N2O2 | 1000316-21-1 | 50   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF062917\  
Data File : BF096298.D  
Acq On : 29 Jun 2017 18:17  
Operator : SJ/MA  
Sample : I3925-01  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HD-01-062617

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF062717.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

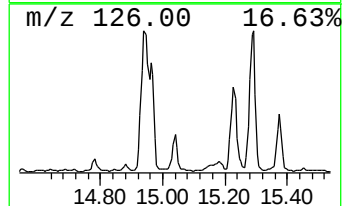
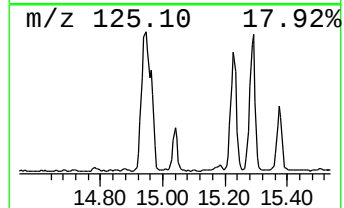
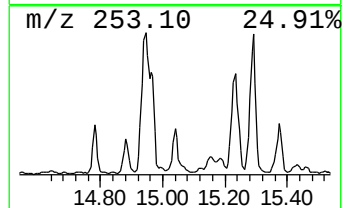
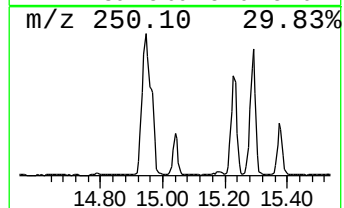
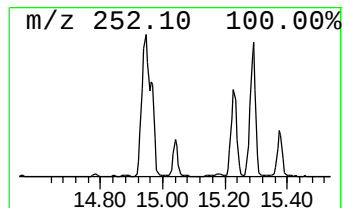
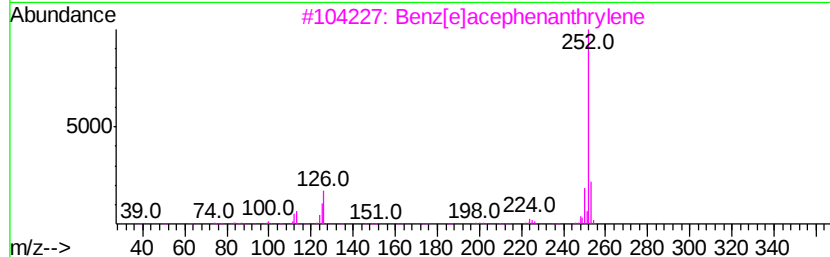
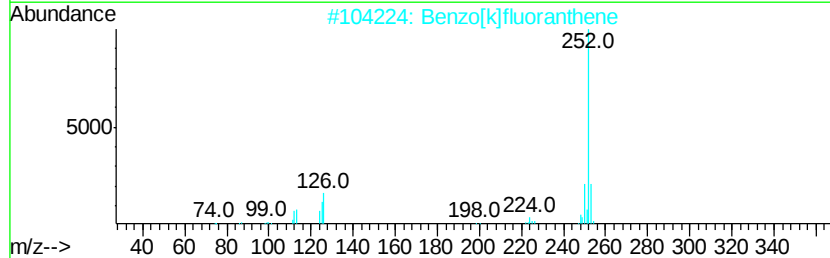
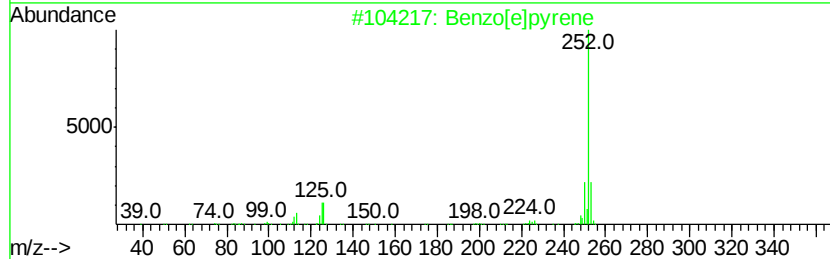
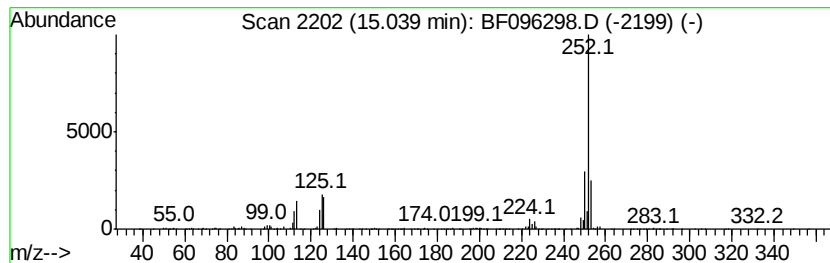
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 17 Benzo[e]pyrene Concentration Rank 10

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 15.04 | 9.56 ng | 476174 | Perylene-d12     | 15.35 |

| Hit# | of | 5 | Tentative ID              | MW  | MolForm | CAS#        | Qual |
|------|----|---|---------------------------|-----|---------|-------------|------|
| 1    |    |   | Benzo[e]pyrene            | 252 | C20H12  | 000192-97-2 | 94   |
| 2    |    |   | Benzo[k]fluoranthene      | 252 | C20H12  | 000207-08-9 | 93   |
| 3    |    |   | Benzo[e]acephenanthrylene | 252 | C20H12  | 000205-99-2 | 93   |
| 4    |    |   | Benzo[i]fluoranthene      | 252 | C20H12  | 000205-82-3 | 91   |
| 5    |    |   | Benzo[a]pyrene            | 252 | C20H12  | 000050-32-8 | 91   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF062917\  
Data File : BF096298.D  
Acq On : 29 Jun 2017 18:17  
Operator : SJ/MA  
Sample : I3925-01  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HD-01-062617

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF062717.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

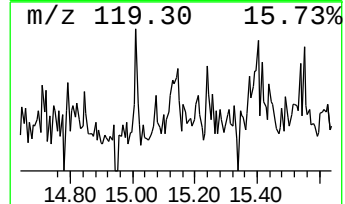
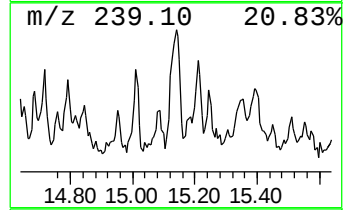
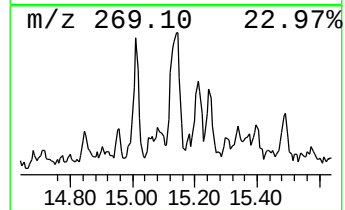
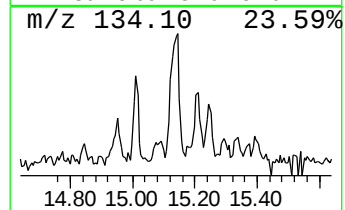
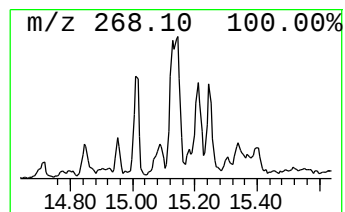
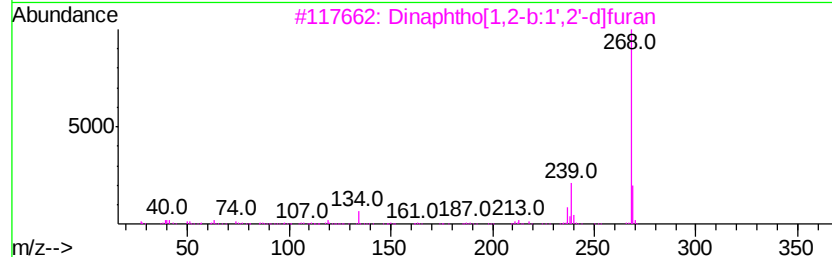
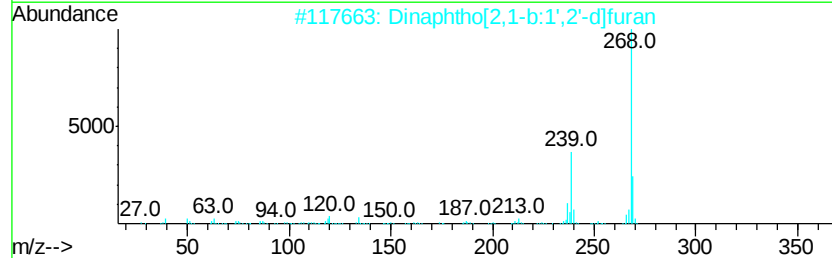
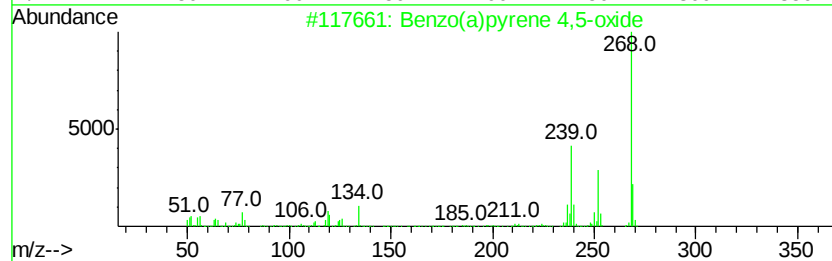
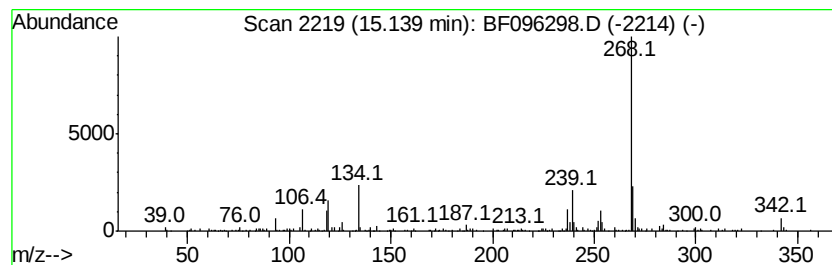
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 18 Benzo(a)pyrene 4,5-oxide Concentration Rank 14

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 15.14 | 5.29 ng | 263159 | Perylene-d12     | 15.35 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | Benzo(a)pyrene 4,5-oxide            | 268 | C20H12O  | 037574-47-3 | 76   |
| 2    |    | Dinaphtho[2,1-b:1',2'-d]furan       | 268 | C20H12O  | 000194-63-8 | 68   |
| 3    |    | Dinaphtho[1,2-b:1',2'-d]furan       | 268 | C20H12O  | 000207-93-2 | 60   |
| 4    |    | trans-3'-Methyl-4-(methylthio)ch... | 268 | C17H16OS | 131316-14-8 | 58   |
| 5    |    | trans-4'-Methyl-4-(methylthio)ch... | 268 | C17H16OS | 126443-27-4 | 53   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF062917\  
 Data File : BF096298.D  
 Acq On : 29 Jun 2017 18:17  
 Operator : SJ/MA  
 Sample : I3925-01  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HD-01-062617

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF062717.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
|                      |       |         |       |          | #                     | RT    | Resp    | Conc |
| 2-Pentanone, 4-hy... | 4.98  | 19.0    | ng    | 1079790  | 1                     | 6.77  | 1134740 | 20.0 |
| unknown6.54          | 6.54  | 79.9    | ng    | 4531160  | 1                     | 6.77  | 1134740 | 20.0 |
| 3,5-Dimethyldodecane | 10.72 | 5.2     | ng    | 379987   | 4                     | 11.29 | 1457010 | 20.0 |
| Hexadecanoic acid... | 11.69 | 15.6    | ng    | 1133010  | 4                     | 11.29 | 1457010 | 20.0 |
| Phenanthrene, 2-m... | 11.79 | 6.3     | ng    | 459106   | 4                     | 11.29 | 1457010 | 20.0 |
| Anthracene, 1-met... | 11.82 | 13.7    | ng    | 997130   | 4                     | 11.29 | 1457010 | 20.0 |
| 4H-Cyclopenta[def... | 11.90 | 13.2    | ng    | 959094   | 4                     | 11.29 | 1457010 | 20.0 |
| Naphthalene, 2-ph... | 12.08 | 5.0     | ng    | 363455   | 4                     | 11.29 | 1457010 | 20.0 |
| Phenanthrene, 2,5... | 12.33 | 4.4     | ng    | 320781   | 4                     | 11.29 | 1457010 | 20.0 |
| 9,12-Octadecadien... | 12.37 | 33.2    | ng    | 2420730  | 4                     | 11.29 | 1457010 | 20.0 |
| 15-Octadecenoic a... | 12.40 | 25.1    | ng    | 1826850  | 4                     | 11.29 | 1457010 | 20.0 |
| Octadecanoic acid    | 12.60 | 4.6     | ng    | 333314   | 4                     | 11.29 | 1457010 | 20.0 |
| Azacyclotridecan-... | 14.77 | 7.0     | ng    | 348221   | 6                     | 15.35 | 995847  | 20.0 |
| Benzo[e]pyrene       | 15.04 | 9.6     | ng    | 476174   | 6                     | 15.35 | 995847  | 20.0 |
| Benzo(a)pyrene 4,... | 15.14 | 5.3     | ng    | 263159   | 6                     | 15.35 | 995847  | 20.0 |