

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF071618\  
 Data File : BF107422.D  
 Acq On : 17 Jul 2018 00:17  
 Operator : JU/SJ  
 Sample : J3821-05 2X  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HR-05-071218-C

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-BF071618.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 4.596       | 378           | 384         | 388          | rBV4     | 14842          | 30740         | 1.77%           | 0.111%        |
| 2         | 5.201       | 483           | 487         | 491          | rVB      | 211111         | 206116        | 11.88%          | 0.744%        |
| 3         | 5.596       | 548           | 554         | 557          | rBV      | 1613888        | 1368379       | 78.84%          | 4.942%        |
| 4         | 6.507       | 706           | 709         | 712          | rBV3     | 29776          | 27435         | 1.58%           | 0.099%        |
| 5         | 6.595       | 720           | 724         | 732          | rVB      | 1580719        | 1494134       | 86.09%          | 5.396%        |
| 6         | 6.748       | 745           | 750         | 753          | rBV      | 1885693        | 1521911       | 87.69%          | 5.496%        |
| 7         | 6.801       | 756           | 759         | 764          | rVB3     | 120770         | 121061        | 6.98%           | 0.437%        |
| 8         | 6.984       | 785           | 790         | 793          | rBV      | 1255565        | 1152261       | 66.39%          | 4.161%        |
| 9         | 7.031       | 796           | 798         | 803          | rBV3     | 35567          | 35004         | 2.02%           | 0.126%        |
| 10        | 7.137       | 811           | 816         | 819          | rBV      | 1529376        | 1234152       | 71.11%          | 4.457%        |
| 11        | 7.248       | 829           | 835         | 838          | rBV5     | 42510          | 61475         | 3.54%           | 0.222%        |
| 12        | 7.295       | 840           | 843         | 850          | rVB3     | 49483          | 76471         | 4.41%           | 0.276%        |
| 13        | 7.372       | 850           | 856         | 860          | rBV4     | 43735          | 74600         | 4.30%           | 0.269%        |
| 14        | 7.460       | 869           | 871         | 875          | rVB2     | 24325          | 27726         | 1.60%           | 0.100%        |
| 15        | 7.507       | 875           | 879         | 881          | rBV4     | 56808          | 66884         | 3.85%           | 0.242%        |
| 16        | 7.537       | 881           | 884         | 887          | rVV      | 1023442        | 946221        | 54.52%          | 3.417%        |
| 17        | 7.566       | 887           | 889         | 893          | rVV      | 112114         | 84227         | 4.85%           | 0.304%        |
| 18        | 7.625       | 893           | 899         | 902          | rVB8     | 31812          | 46298         | 2.67%           | 0.167%        |
| 19        | 7.660       | 902           | 905         | 907          | rBV3     | 21543          | 25364         | 1.46%           | 0.092%        |
| 20        | 7.713       | 910           | 914         | 918          | rBV7     | 16777          | 32871         | 1.89%           | 0.119%        |
| 21        | 7.772       | 922           | 924         | 932          | rVB9     | 36033          | 53946         | 3.11%           | 0.195%        |
| 22        | 7.860       | 934           | 939         | 940          | rBV4     | 21813          | 30027         | 1.73%           | 0.108%        |
| 23        | 7.931       | 949           | 951         | 954          | rVB4     | 25775          | 24902         | 1.43%           | 0.090%        |
| 24        | 8.001       | 960           | 963         | 965          | rVB3     | 59711          | 50266         | 2.90%           | 0.182%        |
| 25        | 8.072       | 972           | 975         | 978          | rVB3     | 44285          | 42889         | 2.47%           | 0.155%        |
| 26        | 8.101       | 978           | 980         | 982          | rVV2     | 30043          | 25688         | 1.48%           | 0.093%        |
| 27        | 8.131       | 982           | 985         | 988          | rVB3     | 29684          | 36365         | 2.10%           | 0.131%        |
| 28        | 8.231       | 999           | 1002        | 1004         | rBV      | 105623         | 98063         | 5.65%           | 0.354%        |
| 29        | 8.266       | 1004          | 1008        | 1011         | rVV      | 1657758        | 1353436       | 77.98%          | 4.888%        |
| 30        | 8.313       | 1013          | 1016        | 1018         | rVB3     | 67609          | 67304         | 3.88%           | 0.243%        |
| 31        | 8.348       | 1018          | 1022        | 1025         | rBV5     | 32390          | 42105         | 2.43%           | 0.152%        |
| 32        | 8.460       | 1038          | 1041        | 1045         | rVB6     | 37330          | 34951         | 2.01%           | 0.126%        |
| 33        | 8.501       | 1045          | 1048        | 1052         | rVB6     | 17415          | 26595         | 1.53%           | 0.096%        |
| 34        | 8.548       | 1052          | 1056        | 1059         | rBV3     | 64917          | 73587         | 4.24%           | 0.266%        |

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 HR-05-071218-C

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-BF071618.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 35 | 8.595  | 1061 | 1064 | 1067 | rBV5 | 26831   | 35438   | 2.04%  | 0.128% |
| 36 | 8.672  | 1074 | 1077 | 1079 | rVB2 | 67561   | 56913   | 3.28%  | 0.206% |
| 37 | 8.766  | 1090 | 1093 | 1095 | rBV3 | 52220   | 43083   | 2.48%  | 0.156% |
| 38 | 8.842  | 1101 | 1106 | 1110 | rVV2 | 86856   | 82208   | 4.74%  | 0.297% |
| 39 | 8.925  | 1117 | 1120 | 1124 | rVV6 | 28641   | 29844   | 1.72%  | 0.108% |
| 40 | 8.978  | 1126 | 1129 | 1131 | rVB3 | 40654   | 35509   | 2.05%  | 0.128% |
| 41 | 9.078  | 1141 | 1146 | 1149 | rBV5 | 64289   | 75685   | 4.36%  | 0.273% |
| 42 | 9.272  | 1177 | 1179 | 1181 | rBV3 | 38349   | 27496   | 1.58%  | 0.099% |
| 43 | 9.336  | 1186 | 1190 | 1193 | rBV  | 2145720 | 1709595 | 98.50% | 6.174% |
| 44 | 9.407  | 1199 | 1202 | 1205 | rBV4 | 65622   | 69702   | 4.02%  | 0.252% |
| 45 | 9.442  | 1205 | 1208 | 1212 | rVV6 | 33413   | 48186   | 2.78%  | 0.174% |
| 46 | 9.489  | 1212 | 1216 | 1218 | rVB5 | 27875   | 37863   | 2.18%  | 0.137% |
| 47 | 9.672  | 1245 | 1247 | 1251 | rVB5 | 29121   | 35417   | 2.04%  | 0.128% |
| 48 | 9.731  | 1254 | 1257 | 1260 | rVB  | 333750  | 266543  | 15.36% | 0.963% |
| 49 | 9.883  | 1281 | 1283 | 1288 | rBV2 | 67331   | 52749   | 3.04%  | 0.191% |
| 50 | 9.936  | 1290 | 1292 | 1296 | rVB3 | 54648   | 40147   | 2.31%  | 0.145% |
| 51 | 10.025 | 1301 | 1307 | 1310 | rVV  | 1577728 | 1350990 | 77.84% | 4.879% |
| 52 | 10.054 | 1310 | 1312 | 1315 | rVV  | 146320  | 125754  | 7.25%  | 0.454% |
| 53 | 10.078 | 1315 | 1316 | 1320 | rVB4 | 29306   | 30147   | 1.74%  | 0.109% |
| 54 | 10.125 | 1320 | 1324 | 1327 | rVB6 | 24025   | 33989   | 1.96%  | 0.123% |
| 55 | 10.230 | 1338 | 1342 | 1344 | rBV  | 56866   | 51018   | 2.94%  | 0.184% |
| 56 | 10.336 | 1357 | 1360 | 1363 | rBV5 | 26600   | 32072   | 1.85%  | 0.116% |
| 57 | 10.436 | 1373 | 1377 | 1380 | rBV6 | 45811   | 55809   | 3.22%  | 0.202% |
| 58 | 10.572 | 1397 | 1400 | 1402 | rBV  | 110922  | 74942   | 4.32%  | 0.271% |
| 59 | 10.813 | 1437 | 1441 | 1444 | rBV  | 892179  | 744332  | 42.89% | 2.688% |
| 60 | 10.919 | 1456 | 1459 | 1465 | rVB8 | 79582   | 121586  | 7.01%  | 0.439% |
| 61 | 11.019 | 1472 | 1476 | 1477 | rBV4 | 23930   | 25539   | 1.47%  | 0.092% |
| 62 | 11.119 | 1488 | 1493 | 1495 | rBV6 | 31053   | 52175   | 3.01%  | 0.188% |
| 63 | 11.148 | 1495 | 1498 | 1501 | rBV5 | 29299   | 32940   | 1.90%  | 0.119% |
| 64 | 11.242 | 1511 | 1514 | 1515 | rBV3 | 25222   | 27613   | 1.59%  | 0.100% |
| 65 | 11.272 | 1515 | 1519 | 1522 | rVB6 | 27267   | 33195   | 1.91%  | 0.120% |
| 66 | 11.319 | 1524 | 1527 | 1530 | rBV5 | 56716   | 58924   | 3.40%  | 0.213% |
| 67 | 11.360 | 1533 | 1534 | 1536 | rBV2 | 51166   | 39184   | 2.26%  | 0.142% |
| 68 | 11.413 | 1541 | 1543 | 1547 | rVB  | 75733   | 62061   | 3.58%  | 0.224% |
| 69 | 11.519 | 1557 | 1561 | 1563 | rBV  | 1336832 | 1284755 | 74.03% | 4.640% |
| 70 | 11.542 | 1563 | 1565 | 1568 | rVV  | 750912  | 576475  | 33.22% | 2.082% |
| 71 | 11.589 | 1570 | 1573 | 1577 | rVB  | 179758  | 147152  | 8.48%  | 0.531% |

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 BNA\_F  
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 HR-05-071218-C

Integration Parameters: rteint.p  
 Integrator: RTE  
 Smoothing : ON  
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 Start Thrs: 0.2  
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Filtering: 5  
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 Max Peaks: 100  
 Peak Location: TOP

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Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF071618.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|     |        |      |      |      |      |         |         |         |        |
|-----|--------|------|------|------|------|---------|---------|---------|--------|
| 72  | 11.742 | 1595 | 1599 | 1602 | rVB2 | 83736   | 100955  | 5.82%   | 0.365% |
| 73  | 11.789 | 1605 | 1607 | 1612 | rVB6 | 54398   | 54338   | 3.13%   | 0.196% |
| 74  | 11.848 | 1614 | 1617 | 1620 | rVB5 | 49913   | 63231   | 3.64%   | 0.228% |
| 75  | 11.889 | 1622 | 1624 | 1628 | rBV4 | 62278   | 53725   | 3.10%   | 0.194% |
| 76  | 11.930 | 1629 | 1631 | 1636 | rVB6 | 38120   | 48488   | 2.79%   | 0.175% |
| 77  | 12.019 | 1643 | 1646 | 1648 | rVV  | 114533  | 115050  | 6.63%   | 0.416% |
| 78  | 12.042 | 1648 | 1650 | 1656 | rVB  | 133890  | 136762  | 7.88%   | 0.494% |
| 79  | 12.089 | 1656 | 1658 | 1661 | rVB2 | 62399   | 48937   | 2.82%   | 0.177% |
| 80  | 12.130 | 1661 | 1665 | 1667 | rBV2 | 204769  | 210788  | 12.15%  | 0.761% |
| 81  | 12.154 | 1667 | 1669 | 1671 | rVB2 | 106205  | 76661   | 4.42%   | 0.277% |
| 82  | 12.195 | 1674 | 1676 | 1680 | rBV5 | 73687   | 99697   | 5.74%   | 0.360% |
| 83  | 12.313 | 1693 | 1696 | 1698 | rBV3 | 90931   | 85747   | 4.94%   | 0.310% |
| 84  | 12.336 | 1698 | 1700 | 1704 | rVB4 | 89571   | 100759  | 5.81%   | 0.364% |
| 85  | 12.489 | 1724 | 1726 | 1728 | rVB3 | 45843   | 32868   | 1.89%   | 0.119% |
| 86  | 12.513 | 1728 | 1730 | 1733 | rVB4 | 54191   | 46092   | 2.66%   | 0.166% |
| 87  | 12.583 | 1736 | 1742 | 1744 | rBV4 | 321385  | 438089  | 25.24%  | 1.582% |
| 88  | 12.654 | 1752 | 1754 | 1757 | rVB4 | 58476   | 44832   | 2.58%   | 0.162% |
| 89  | 12.730 | 1764 | 1767 | 1771 | rBV  | 1162791 | 1103916 | 63.61%  | 3.987% |
| 90  | 12.883 | 1791 | 1793 | 1796 | rBV3 | 65035   | 66547   | 3.83%   | 0.240% |
| 91  | 12.966 | 1801 | 1807 | 1812 | rBV  | 1131178 | 1258934 | 72.54%  | 4.547% |
| 92  | 13.101 | 1824 | 1830 | 1837 | rVB  | 1862096 | 1719221 | 99.06%  | 6.209% |
| 93  | 13.289 | 1859 | 1862 | 1865 | rVB2 | 188245  | 177088  | 10.20%  | 0.640% |
| 94  | 13.319 | 1865 | 1867 | 1869 | rBV3 | 91025   | 70218   | 4.05%   | 0.254% |
| 95  | 13.354 | 1871 | 1873 | 1876 | rVB2 | 138193  | 118001  | 6.80%   | 0.426% |
| 96  | 13.395 | 1877 | 1880 | 1883 | rVB4 | 101684  | 126458  | 7.29%   | 0.457% |
| 97  | 13.519 | 1899 | 1901 | 1904 | rBV4 | 98872   | 109987  | 6.34%   | 0.397% |
| 98  | 14.166 | 2006 | 2011 | 2013 | rBV2 | 1441468 | 1735551 | 100.00% | 6.268% |
| 99  | 14.189 | 2013 | 2015 | 2018 | rVB  | 470775  | 370864  | 21.37%  | 1.339% |
| 100 | 15.701 | 2269 | 2272 | 2278 | rVB  | 604148  | 875015  | 50.42%  | 3.160% |

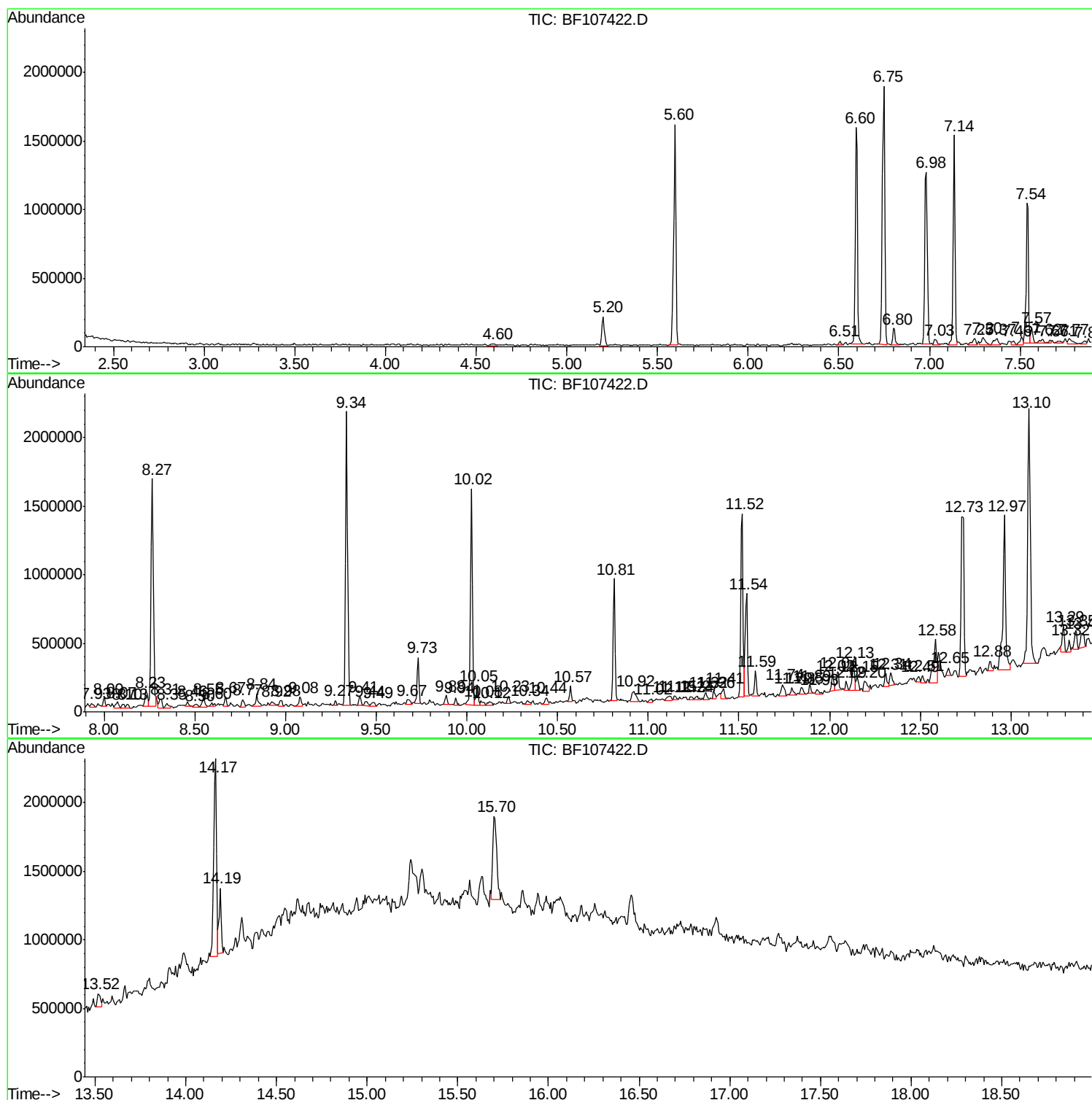
Sum of corrected areas: 27689303

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Instrument :  
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ClientSampled :  
HR-05-071218-C

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071618.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071618\  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071618.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

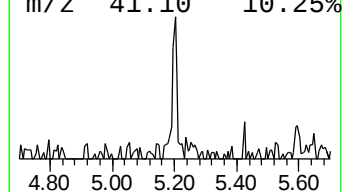
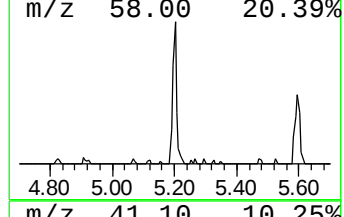
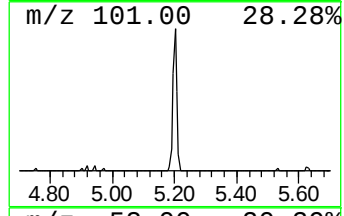
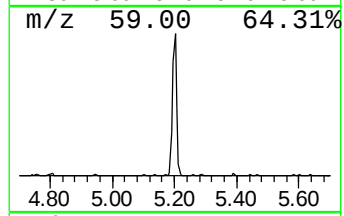
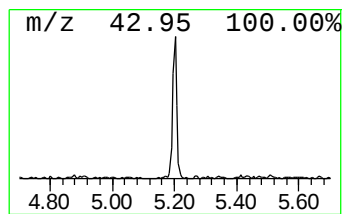
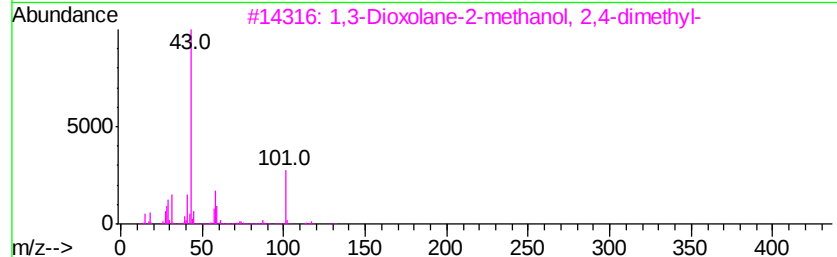
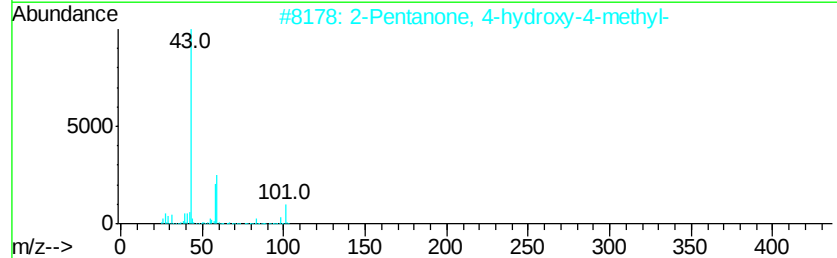
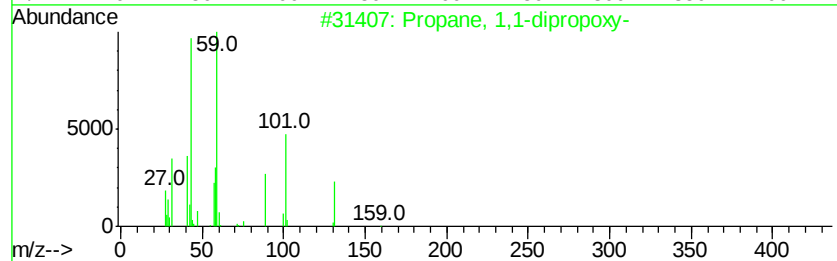
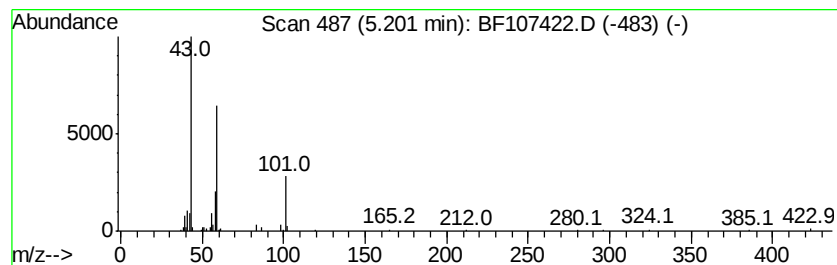
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 1 unknown5.20 Concentration Rank 4

| R.T. | EstConc | Area   | Relative to ISTD       | R.T. |
|------|---------|--------|------------------------|------|
| 5.20 | 3.58 ng | 206116 | 1,4-Dichlorobenzene-d4 | 6.98 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Propane, 1,1-dipropoxy-             | 160 | C9H20O2 | 004744-11-0 | 36   |
| 2    |    | 2-Pentanone, 4-hydroxy-4-methyl-    | 116 | C6H12O2 | 000123-42-2 | 25   |
| 3    |    | 1,3-Dioxolane-2-methanol, 2,4-di... | 132 | C6H12O3 | 053951-43-2 | 25   |
| 4    |    | (+)-4-Amino-4,5-dihydro-2(3H)-f...  | 101 | C4H7NO2 | 016504-58-8 | 23   |
| 5    |    | Oxirane, tetramethyl-               | 100 | C6H12O  | 005076-20-0 | 9    |



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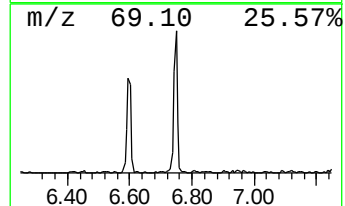
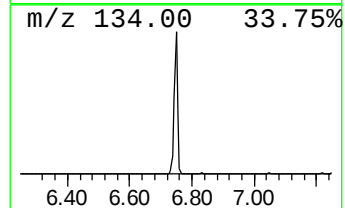
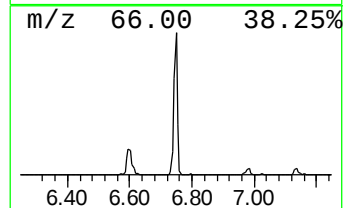
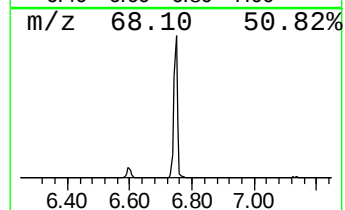
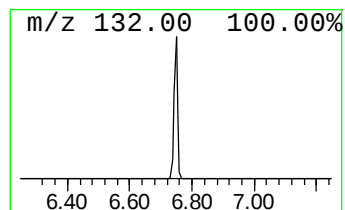
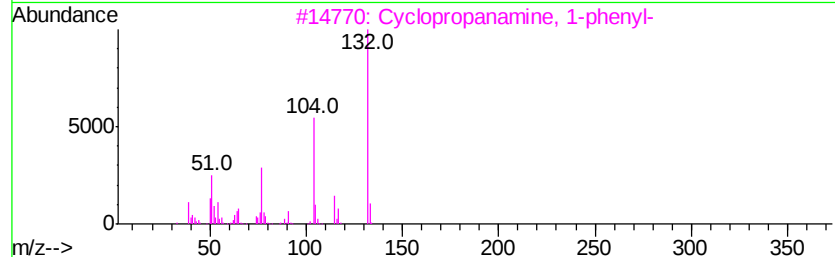
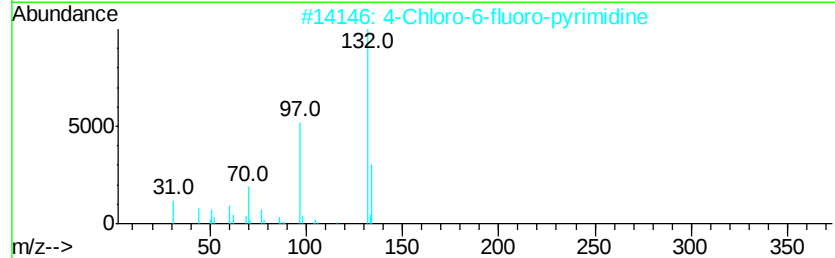
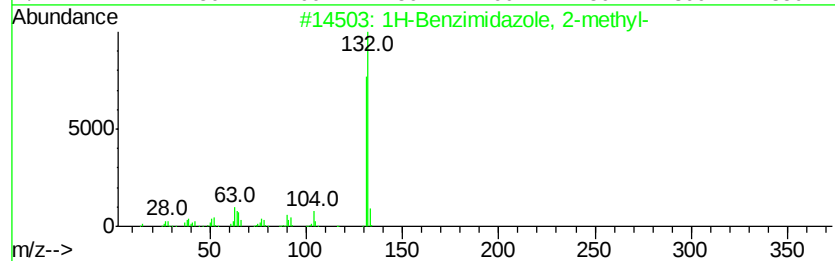
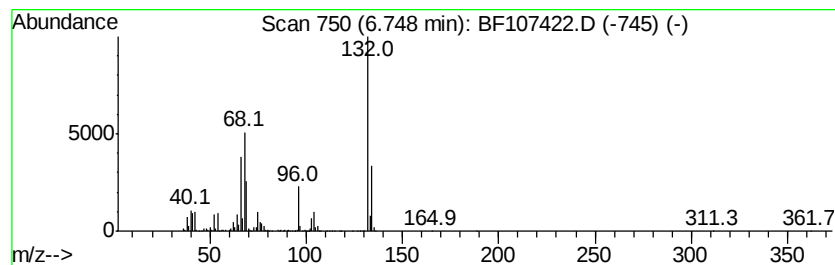
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071618.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 2 unknown6.75 Concentration Rank 1

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.75 | 26.42 ng | 1521910 | 1,4-Dichlorobenzene-d4 | 6.98 |

| Hit# | of | Tentative ID                       | MW  | MolForm   | CAS#         | Qual |
|------|----|------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 1H-Benzimidazole, 2-methyl-        | 132 | C8H8N2    | 000615-15-6  | 14   |
| 2    |    | 4-Chloro-6-fluoro-pyrimidine       | 132 | C4H2ClFN2 | 051422-01-6  | 14   |
| 3    |    | Cyclopropanamine, 1-phenyl-        | 133 | C9H11N    | 1000351-26-2 | 10   |
| 4    |    | 2H-Cyclopentadipyridazine, 2-me... | 132 | C8H8N2    | 022291-85-6  | 10   |
| 5    |    | Tranylcypromine-propionyl          | 189 | C12H15NO  | 1000123-86-3 | 10   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071618\  
Data File : BF107422.D  
Acq On : 17 Jul 2018 00:17  
Operator : JU/SJ  
Sample : J3821-05 2X  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampled :  
HR-05-071218-C

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071618.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

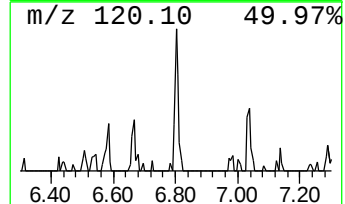
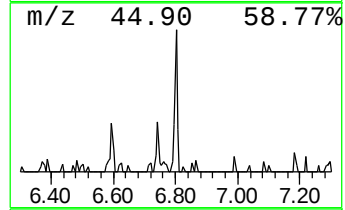
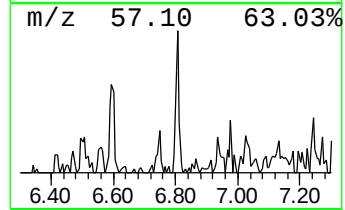
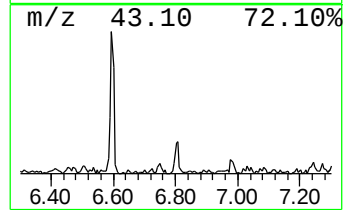
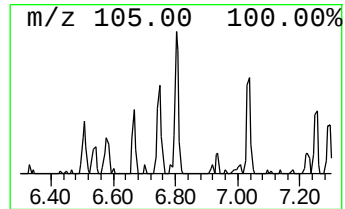
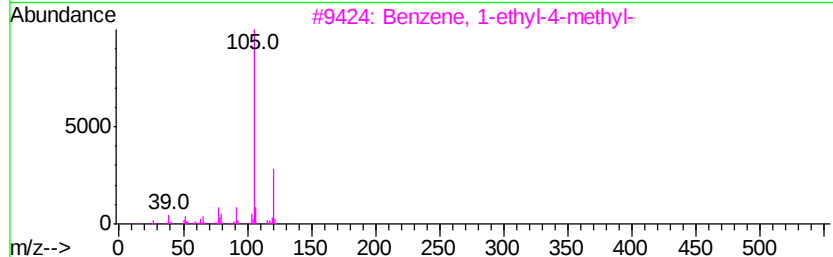
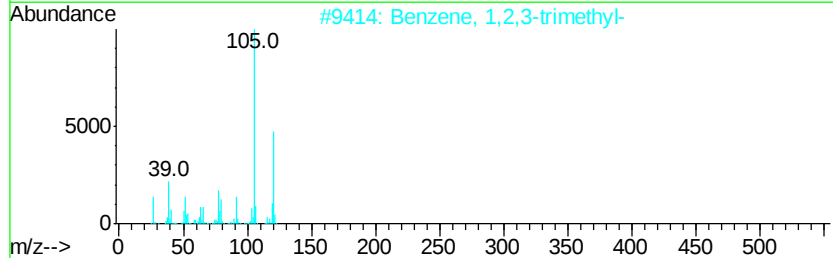
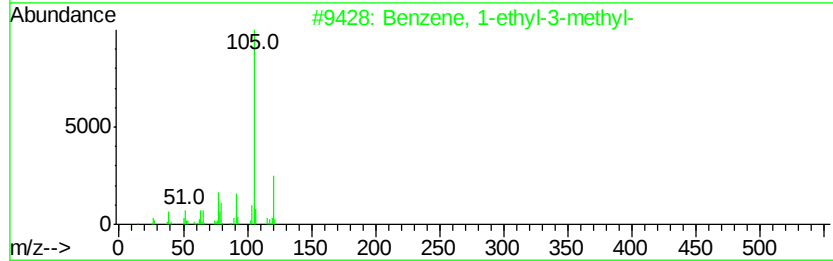
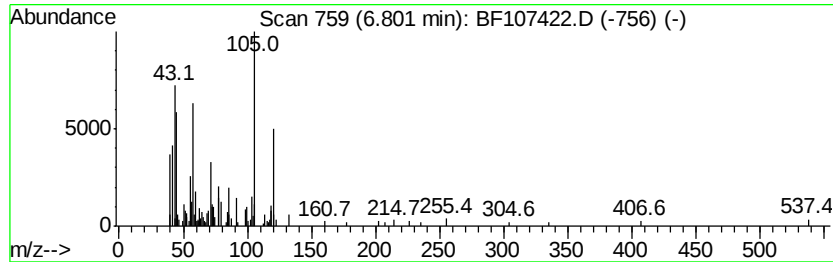
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 3 Benzene, 1-ethyl-3-methyl- Concentration Rank 7

| R.T. | EstConc | Area   | Relative to ISTD       | R.T. |
|------|---------|--------|------------------------|------|
| 6.80 | 2.10 ng | 121061 | 1,4-Dichlorobenzene-d4 | 6.98 |

| Hit# | of | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1-ethyl-3-methyl- | 120 | C9H12   | 000620-14-4 | 86   |
| 2    |    | Benzene, 1,2,3-trimethyl-  | 120 | C9H12   | 000526-73-8 | 64   |
| 3    |    | Benzene, 1-ethyl-4-methyl- | 120 | C9H12   | 000622-96-8 | 50   |
| 4    |    | Benzene, 1-ethyl-2-methyl- | 120 | C9H12   | 000611-14-3 | 46   |
| 5    |    | Mesitylene                 | 120 | C9H12   | 000108-67-8 | 43   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071618\  
Data File : BF107422.D  
Acq On : 17 Jul 2018 00:17  
Operator : JU/SJ  
Sample : J3821-05 2X  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HR-05-071218-C

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071618.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

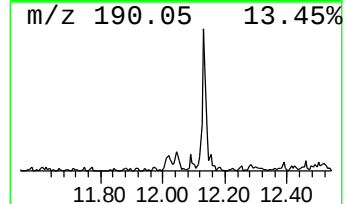
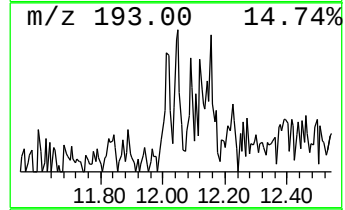
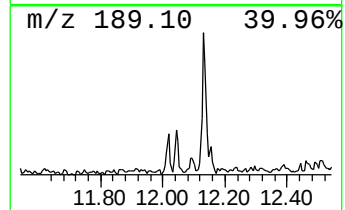
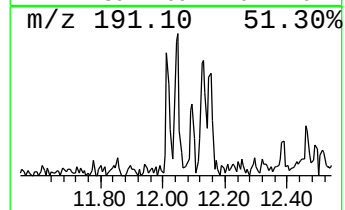
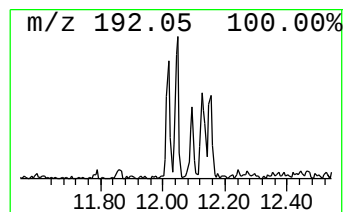
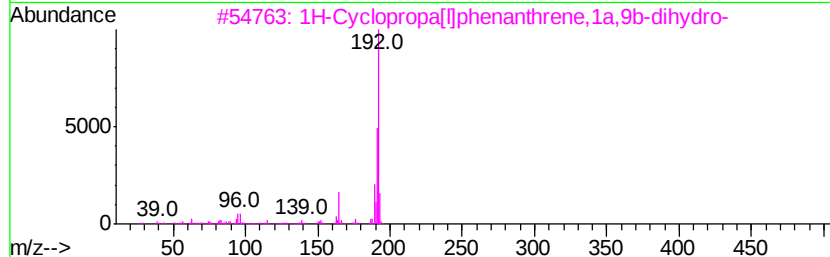
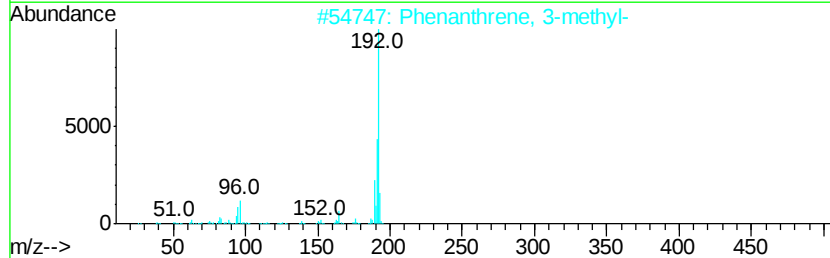
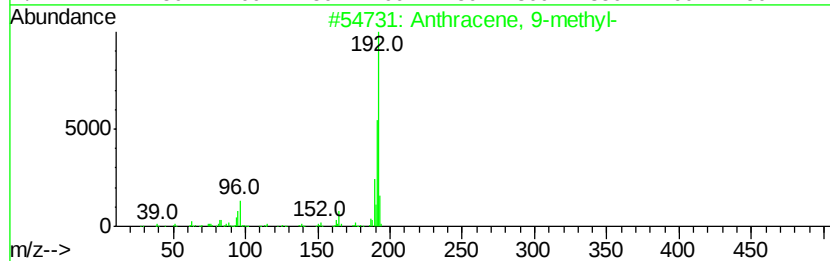
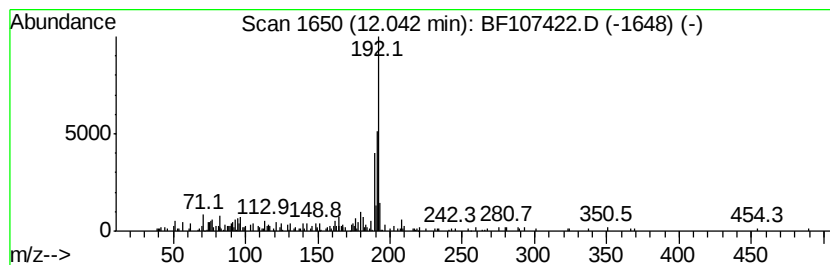
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 Anthracene, 9-methyl- Concentration Rank 6

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 12.04 | 2.13 ng | 136762 | Phenanthrene-d10 | 11.52 |

| Hit# of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|---------|---|-------------------------------------|-----|---------|-------------|------|
| 1       |   | Anthracene, 9-methyl-               | 192 | C15H12  | 000779-02-2 | 70   |
| 2       |   | Phenanthrene, 3-methyl-             | 192 | C15H12  | 000832-71-3 | 62   |
| 3       |   | 1H-Cyclopropa[1]phenanthrene,1a,... | 192 | C15H12  | 000949-41-7 | 62   |
| 4       |   | Anthracene, 2-methyl-               | 192 | C15H12  | 000613-12-7 | 62   |
| 5       |   | Naphtho[2,3-b]norbornadiene         | 192 | C15H12  | 107426-38-0 | 58   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071618\  
Data File : BF107422.D  
Acq On : 17 Jul 2018 00:17  
Operator : JU/SJ  
Sample : J3821-05 2X  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HR-05-071218-C

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071618.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

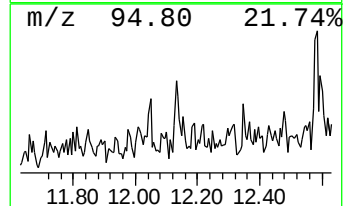
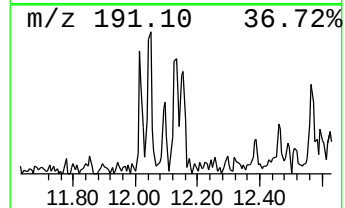
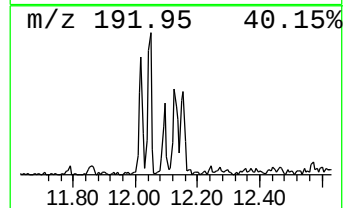
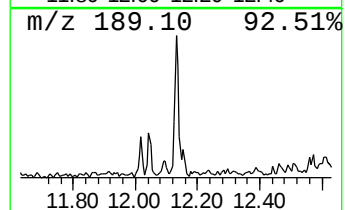
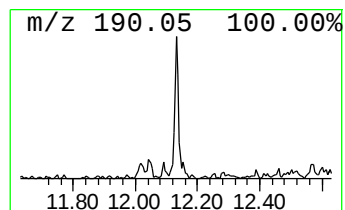
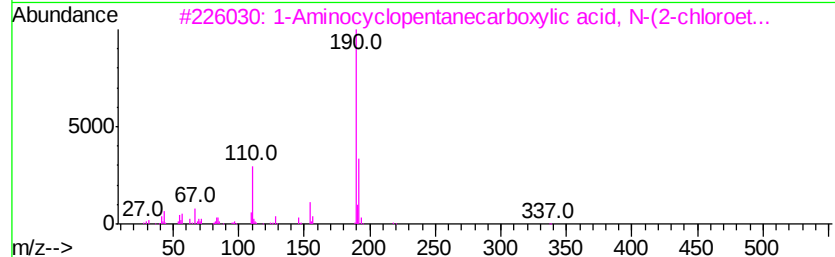
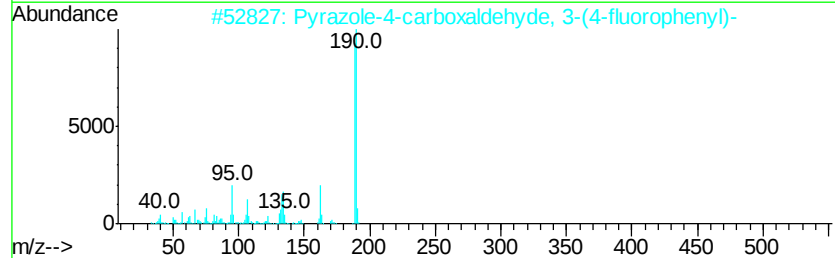
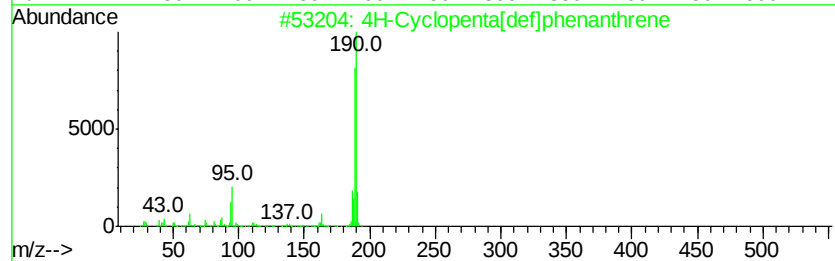
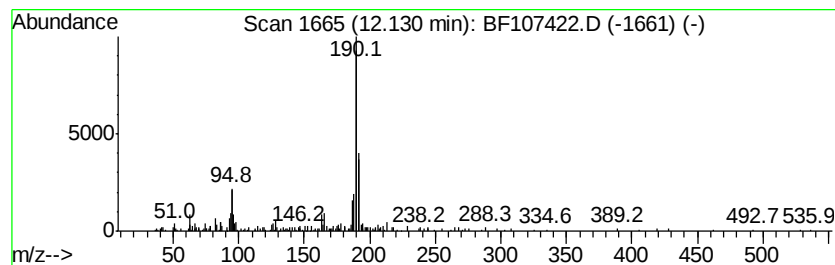
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 6 4H-Cyclopenta[def]phenanthrene Concentration Rank 5

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 12.13 | 3.28 ng | 210788 | Phenanthrene-d10 | 11.52 |

| Hit# | of | Tentative ID                        | MW  | MolForm     | CAS#         | Qual |
|------|----|-------------------------------------|-----|-------------|--------------|------|
| 1    | 5  | 4H-Cyclopenta[def]phenanthrene      | 190 | C15H10      | 000203-64-5  | 76   |
| 2    |    | Pyrazole-4-carboxaldehyde, 3-(4-... | 190 | C10H7FN2O   | 306936-57-2  | 40   |
| 3    |    | 1-Aminocyclopentanecarboxylic ac... | 445 | C24H44ClN04 | 1000329-17-5 | 35   |
| 4    |    | 2,2'-Bis(4,5-dimethylimidazole)     | 190 | C10H14N4    | 069286-06-2  | 28   |
| 5    |    | 1-Aminocyclopentanecarboxylic ac... | 431 | C23H42ClN04 | 1000329-17-4 | 25   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071618\  
Data File : BF107422.D  
Acq On : 17 Jul 2018 00:17  
Operator : JU/SJ  
Sample : J3821-05 2X  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HR-05-071218-C

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071618.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

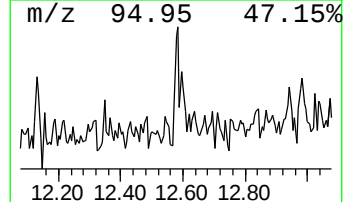
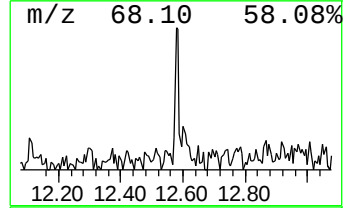
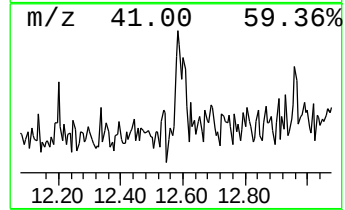
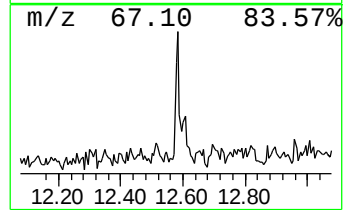
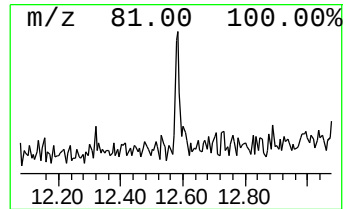
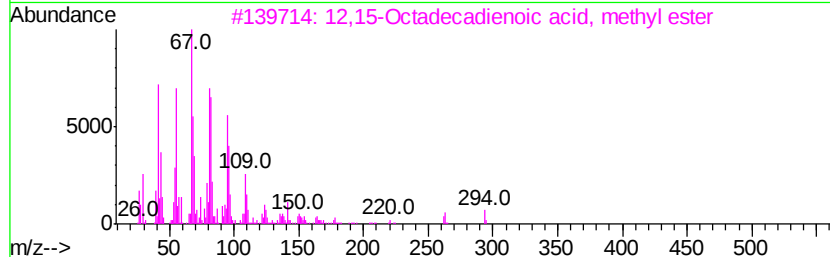
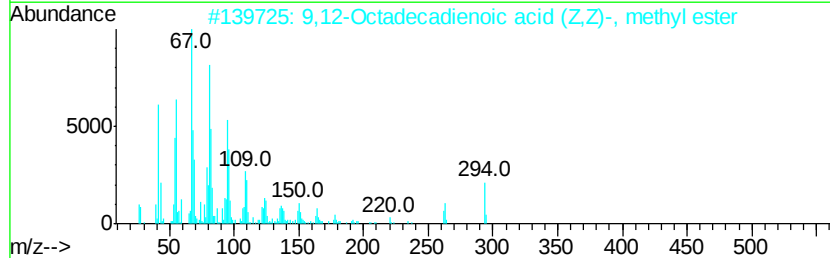
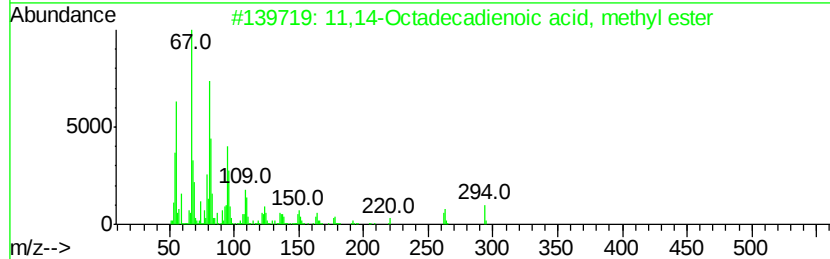
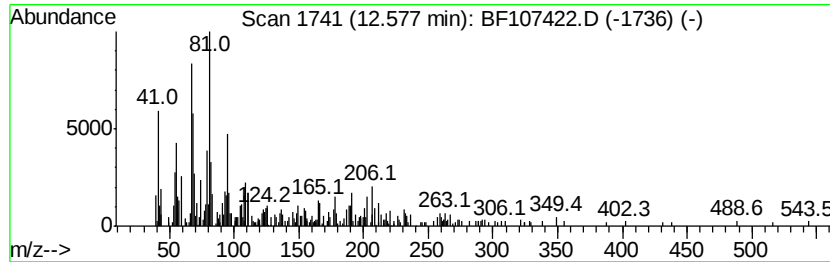
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 11,14-Octadecadienoic acid,... Concentration Rank 3

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 12.58 | 6.82 ng | 438089 | Phenanthrene-d10 | 11.52 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | 11,14-Octadecadienoic acid, meth... | 294 | C19H34O2 | 056554-61-1 | 96   |
| 2    |    | 9,12-Octadecadienoic acid (Z,Z)-... | 294 | C19H34O2 | 000112-63-0 | 94   |
| 3    |    | 12,15-Octadecadienoic acid, meth... | 294 | C19H34O2 | 057156-97-5 | 91   |
| 4    |    | 6,9-Octadecadienoic acid, methyl... | 294 | C19H34O2 | 056599-55-4 | 90   |
| 5    |    | Linoleic acid ethyl ester           | 308 | C20H36O2 | 000544-35-4 | 89   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071618\  
Data File : BF107422.D  
Acq On : 17 Jul 2018 00:17  
Operator : JU/SJ  
Sample : J3821-05 2X  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HR-05-071218-C

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071618.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

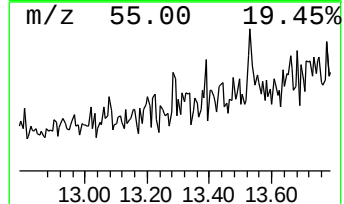
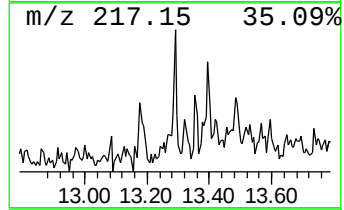
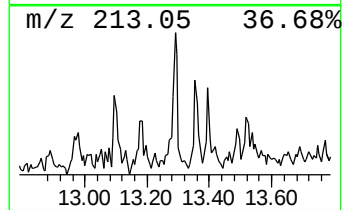
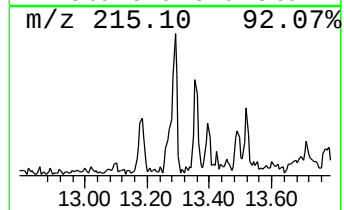
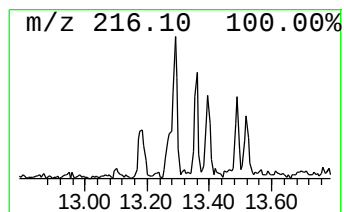
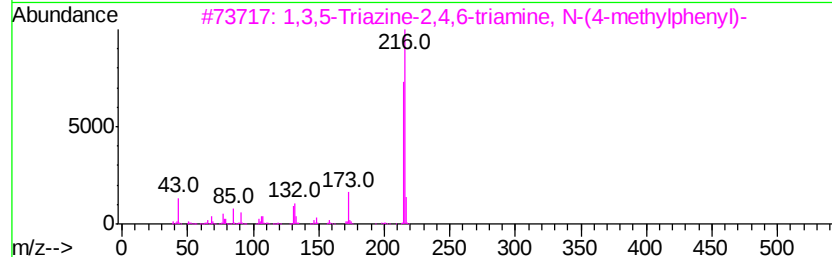
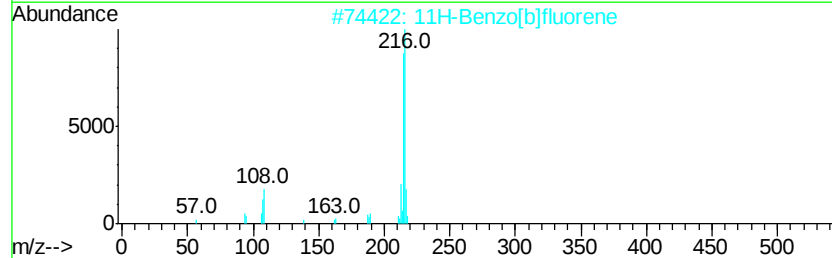
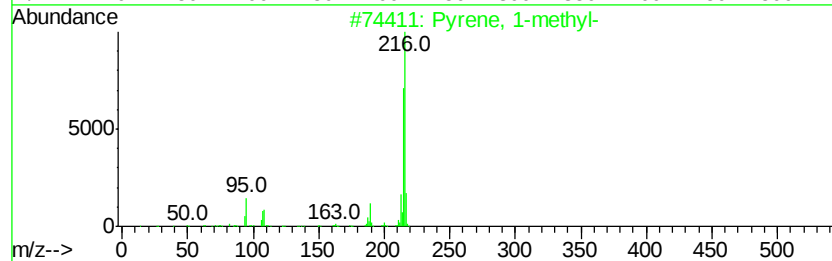
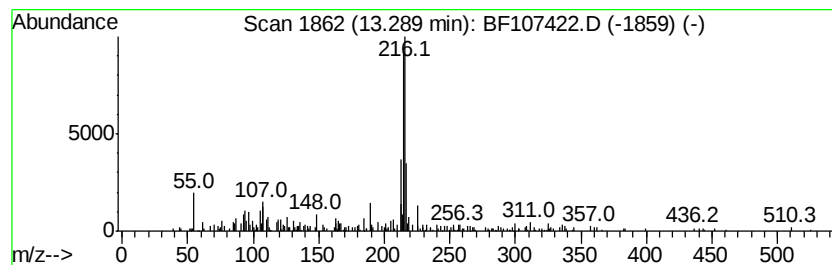
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 8 Pyrene, 1-methyl- Concentration Rank 8

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 13.29 | 2.04 ng | 177088 | Chrysene-d12     | 14.17 |

| Hit# | of | Tentative ID                        | MW  | MolForm    | CAS#        | Qual |
|------|----|-------------------------------------|-----|------------|-------------|------|
| 1    | 5  | Pyrene, 1-methyl-                   | 216 | C17H12     | 002381-21-7 | 68   |
| 2    |    | 11H-Benzo[b]fluorene                | 216 | C17H12     | 000243-17-4 | 64   |
| 3    |    | 1,3,5-Triazine-2,4,6-triamine, N... | 216 | C10H12N6   | 046731-79-7 | 53   |
| 4    |    | Benzoic acid, 3-(3,5-dimethyl-1-... | 216 | C12H12N2O2 | 312531-88-7 | 53   |
| 5    |    | Fluoranthene, 2-methyl-             | 216 | C17H12     | 033543-31-6 | 53   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF071618\  
Data File : BF107422.D  
Acq On : 17 Jul 2018 00:17  
Operator : JU/SJ  
Sample : J3821-05 2X  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HR-05-071218-C

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF071618.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 |
| unknown5.20          | 5.20  | 3.6     | ng    | 206116   | 1                     | 6.98  | 1152260 | 20.0 |
| unknown6.75          | 6.75  | 26.4    | ng    | 1521910  | 1                     | 6.98  | 1152260 | 20.0 |
| Benzene, 1-ethyl-... | 6.80  | 2.1     | ng    | 121061   | 1                     | 6.98  | 1152260 | 20.0 |
| Anthracene, 9-met... | 12.04 | 2.1     | ng    | 136762   | 4                     | 11.52 | 1284760 | 20.0 |
| 4H-Cyclopenta[def... | 12.13 | 3.3     | ng    | 210788   | 4                     | 11.52 | 1284760 | 20.0 |
| 11,14-Octadecadie... | 12.58 | 6.8     | ng    | 438089   | 4                     | 11.52 | 1284760 | 20.0 |
| Pyrene, 1-methyl-    | 13.29 | 2.0     | ng    | 177088   | 5                     | 14.17 | 1735550 | 20.0 |