

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF071919\  
 Data File : BF115671.D  
 Acq On : 19 Jul 2019 12:33  
 Operator : HP/JU  
 Sample : K3903-06  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 18107-NYCT-AVE-Z-COMP-3-4

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-BF071219.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 2.205       | 14            | 20          | 27           | rVB      | 581737         | 733179        | 11.15%          | 0.633%        |
| 2         | 5.504       | 576           | 581         | 584          | rBV      | 3026770        | 3017044       | 45.87%          | 2.603%        |
| 3         | 6.510       | 747           | 752         | 755          | rBV      | 3109734        | 3170372       | 48.20%          | 2.735%        |
| 4         | 6.651       | 771           | 776         | 779          | rBV      | 3635332        | 3291426       | 50.04%          | 2.840%        |
| 5         | 6.881       | 811           | 815         | 822          | rBV      | 1521797        | 1232933       | 18.74%          | 1.064%        |
| 6         | 7.040       | 838           | 842         | 845          | rBV      | 2716544        | 2390228       | 36.34%          | 2.062%        |
| 7         | 7.440       | 903           | 910         | 913          | rBV      | 2245179        | 2044147       | 31.08%          | 1.764%        |
| 8         | 8.163       | 1028          | 1033        | 1035         | rBV      | 1908975        | 1563475       | 23.77%          | 1.349%        |
| 9         | 8.875       | 1148          | 1154        | 1159         | rBV      | 613063         | 492496        | 7.49%           | 0.425%        |
| 10        | 8.975       | 1166          | 1171        | 1175         | rBV      | 838044         | 664706        | 10.11%          | 0.574%        |
| 11        | 9.239       | 1211          | 1216        | 1219         | rBV      | 3671074        | 3161552       | 48.06%          | 2.728%        |
| 12        | 9.504       | 1256          | 1261        | 1265         | rBV      | 541562         | 717768        | 10.91%          | 0.619%        |
| 13        | 9.575       | 1269          | 1273        | 1276         | rVV      | 1054891        | 1105821       | 16.81%          | 0.954%        |
| 14        | 9.604       | 1276          | 1278        | 1280         | rVV      | 761415         | 580513        | 8.83%           | 0.501%        |
| 15        | 9.628       | 1280          | 1282        | 1287         | rVV      | 545344         | 467959        | 7.11%           | 0.404%        |
| 16        | 9.692       | 1290          | 1293        | 1299         | rVV      | 598875         | 660214        | 10.04%          | 0.570%        |
| 17        | 9.775       | 1302          | 1307        | 1312         | rBV2     | 457763         | 447393        | 6.80%           | 0.386%        |
| 18        | 9.922       | 1329          | 1332        | 1334         | rVV      | 1806883        | 1649988       | 25.08%          | 1.424%        |
| 19        | 9.951       | 1334          | 1337        | 1340         | rVV      | 1181134        | 966272        | 14.69%          | 0.834%        |
| 20        | 10.022      | 1345          | 1349        | 1353         | rBV2     | 283977         | 365694        | 5.56%           | 0.316%        |
| 21        | 10.075      | 1353          | 1358        | 1362         | rVV3     | 155247         | 278226        | 4.23%           | 0.240%        |
| 22        | 10.122      | 1362          | 1366        | 1369         | rVV      | 837082         | 787824        | 11.98%          | 0.680%        |
| 23        | 10.163      | 1369          | 1373        | 1376         | rVB      | 501317         | 460717        | 7.00%           | 0.398%        |
| 24        | 10.233      | 1381          | 1385        | 1388         | rBV      | 506886         | 491415        | 7.47%           | 0.424%        |
| 25        | 10.263      | 1388          | 1390        | 1393         | rVV      | 399792         | 282106        | 4.29%           | 0.243%        |
| 26        | 10.328      | 1396          | 1401        | 1402         | rBV      | 345301         | 457209        | 6.95%           | 0.394%        |
| 27        | 10.463      | 1421          | 1424        | 1430         | rVV2     | 1303552        | 1310518       | 19.92%          | 1.131%        |
| 28        | 10.533      | 1430          | 1436        | 1437         | rVV2     | 381785         | 528106        | 8.03%           | 0.456%        |
| 29        | 10.551      | 1437          | 1439        | 1441         | rVV3     | 381192         | 332497        | 5.05%           | 0.287%        |
| 30        | 10.575      | 1441          | 1443        | 1446         | rVV2     | 251221         | 278525        | 4.23%           | 0.240%        |
| 31        | 10.622      | 1448          | 1451        | 1456         | rVB2     | 453751         | 503892        | 7.66%           | 0.435%        |
| 32        | 10.704      | 1460          | 1465        | 1469         | rVV      | 2399840        | 2360790       | 35.89%          | 2.037%        |
| 33        | 10.828      | 1481          | 1486        | 1493         | rVB5     | 302280         | 424252        | 6.45%           | 0.366%        |
| 34        | 11.016      | 1511          | 1518        | 1520         | rBV3     | 596007         | 839449        | 12.76%          | 0.724%        |

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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-BF071219.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |         |        |
|----|--------|------|------|------|------|---------|---------|---------|--------|
| 35 | 11.039 | 1520 | 1522 | 1525 | rVV2 | 520103  | 505099  | 7.68%   | 0.436% |
| 36 | 11.098 | 1529 | 1532 | 1535 | rVB  | 409486  | 366627  | 5.57%   | 0.316% |
| 37 | 11.145 | 1535 | 1540 | 1541 | rBV3 | 269432  | 420134  | 6.39%   | 0.362% |
| 38 | 11.163 | 1541 | 1543 | 1548 | rVV2 | 335941  | 399956  | 6.08%   | 0.345% |
| 39 | 11.210 | 1548 | 1551 | 1555 | rVV2 | 396095  | 425130  | 6.46%   | 0.367% |
| 40 | 11.263 | 1555 | 1560 | 1563 | rVV3 | 326906  | 539802  | 8.21%   | 0.466% |
| 41 | 11.298 | 1563 | 1566 | 1572 | rVB  | 608501  | 662342  | 10.07%  | 0.571% |
| 42 | 11.404 | 1578 | 1584 | 1586 | rBV  | 1415143 | 1536592 | 23.36%  | 1.326% |
| 43 | 11.439 | 1586 | 1590 | 1592 | rVV  | 5180750 | 5576158 | 84.77%  | 4.811% |
| 44 | 11.480 | 1594 | 1597 | 1600 | rVV  | 1824810 | 1556937 | 23.67%  | 1.343% |
| 45 | 11.516 | 1600 | 1603 | 1606 | rVV2 | 413008  | 514363  | 7.82%   | 0.444% |
| 46 | 11.633 | 1617 | 1623 | 1625 | rVV2 | 504410  | 649710  | 9.88%   | 0.561% |
| 47 | 11.698 | 1631 | 1634 | 1636 | rVV  | 329200  | 271216  | 4.12%   | 0.234% |
| 48 | 11.733 | 1636 | 1640 | 1646 | rVB3 | 532200  | 567437  | 8.63%   | 0.490% |
| 49 | 11.816 | 1652 | 1654 | 1658 | rVB  | 296556  | 319716  | 4.86%   | 0.276% |
| 50 | 11.910 | 1664 | 1670 | 1672 | rBV  | 1839262 | 1759371 | 26.75%  | 1.518% |
| 51 | 11.939 | 1672 | 1675 | 1678 | rVB  | 2219069 | 2102152 | 31.96%  | 1.814% |
| 52 | 11.986 | 1679 | 1683 | 1685 | rBV  | 752784  | 726100  | 11.04%  | 0.626% |
| 53 | 12.022 | 1685 | 1689 | 1691 | rVV2 | 2318560 | 2543763 | 38.67%  | 2.195% |
| 54 | 12.045 | 1691 | 1693 | 1697 | rVB  | 1500285 | 1131671 | 17.20%  | 0.976% |
| 55 | 12.204 | 1716 | 1720 | 1722 | rVV  | 839036  | 810918  | 12.33%  | 0.700% |
| 56 | 12.227 | 1722 | 1724 | 1730 | rVB2 | 571284  | 584367  | 8.88%   | 0.504% |
| 57 | 12.351 | 1740 | 1745 | 1748 | rBV2 | 494774  | 625135  | 9.50%   | 0.539% |
| 58 | 12.380 | 1748 | 1750 | 1752 | rVV  | 462653  | 424046  | 6.45%   | 0.366% |
| 59 | 12.404 | 1752 | 1754 | 1757 | rVB  | 365700  | 338989  | 5.15%   | 0.292% |
| 60 | 12.457 | 1757 | 1763 | 1766 | rBV  | 1198065 | 1450965 | 22.06%  | 1.252% |
| 61 | 12.498 | 1766 | 1770 | 1772 | rVV2 | 799677  | 1039207 | 15.80%  | 0.897% |
| 62 | 12.545 | 1775 | 1778 | 1783 | rVV2 | 628407  | 836211  | 12.71%  | 0.721% |
| 63 | 12.627 | 1787 | 1792 | 1795 | rBV  | 4934810 | 5510582 | 83.78%  | 4.755% |
| 64 | 12.857 | 1825 | 1831 | 1836 | rBV2 | 4742589 | 6577708 | 100.00% | 5.675% |
| 65 | 12.904 | 1836 | 1839 | 1843 | rVB2 | 374869  | 542157  | 8.24%   | 0.468% |
| 66 | 12.969 | 1846 | 1850 | 1851 | rBV2 | 355457  | 387026  | 5.88%   | 0.334% |
| 67 | 12.986 | 1851 | 1853 | 1861 | rVB2 | 2426741 | 2718317 | 41.33%  | 2.345% |
| 68 | 13.069 | 1862 | 1867 | 1874 | rBV5 | 674597  | 1211645 | 18.42%  | 1.045% |
| 69 | 13.157 | 1879 | 1882 | 1883 | rBV2 | 428259  | 479442  | 7.29%   | 0.414% |
| 70 | 13.180 | 1883 | 1886 | 1888 | rVB  | 1274582 | 1230455 | 18.71%  | 1.062% |
| 71 | 13.245 | 1894 | 1897 | 1899 | rVB  | 805294  | 652800  | 9.92%   | 0.563% |

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Instrument :  
 BNA\_F  
 ClientSampleId :  
 18107-NYCT-AVE-Z-COMP-3-4

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-BF071219.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|     |        |      |      |      |      |         |         |        |        |
|-----|--------|------|------|------|------|---------|---------|--------|--------|
| 72  | 13.280 | 1899 | 1903 | 1906 | rBV2 | 1028621 | 1050821 | 15.98% | 0.907% |
| 73  | 13.374 | 1916 | 1919 | 1921 | rVV  | 743050  | 623578  | 9.48%  | 0.538% |
| 74  | 13.404 | 1921 | 1924 | 1927 | rVB  | 789722  | 684871  | 10.41% | 0.591% |
| 75  | 13.480 | 1933 | 1937 | 1942 | rVB6 | 174359  | 338756  | 5.15%  | 0.292% |
| 76  | 13.580 | 1952 | 1954 | 1956 | rVV3 | 302358  | 334640  | 5.09%  | 0.289% |
| 77  | 13.686 | 1965 | 1972 | 1976 | rBV2 | 607228  | 941029  | 14.31% | 0.812% |
| 78  | 13.798 | 1986 | 1991 | 1993 | rBV3 | 586507  | 856983  | 13.03% | 0.739% |
| 79  | 13.821 | 1993 | 1995 | 1998 | rVV  | 533603  | 476911  | 7.25%  | 0.411% |
| 80  | 13.851 | 1998 | 2000 | 2004 | rVV2 | 343250  | 490566  | 7.46%  | 0.423% |
| 81  | 13.892 | 2004 | 2007 | 2011 | rVB  | 619781  | 620352  | 9.43%  | 0.535% |
| 82  | 14.045 | 2026 | 2033 | 2036 | rBV3 | 3042578 | 4574583 | 69.55% | 3.947% |
| 83  | 14.080 | 2036 | 2039 | 2046 | rVB  | 2639393 | 2715438 | 41.28% | 2.343% |
| 84  | 14.157 | 2050 | 2052 | 2055 | rVB  | 406931  | 302032  | 4.59%  | 0.261% |
| 85  | 14.268 | 2068 | 2071 | 2075 | rBV3 | 315022  | 413503  | 6.29%  | 0.357% |
| 86  | 14.398 | 2091 | 2093 | 2095 | rVV  | 286390  | 276841  | 4.21%  | 0.239% |
| 87  | 14.433 | 2095 | 2099 | 2102 | rVV  | 975213  | 1139150 | 17.32% | 0.983% |
| 88  | 14.468 | 2102 | 2105 | 2108 | rVV  | 642670  | 635161  | 9.66%  | 0.548% |
| 89  | 14.516 | 2109 | 2113 | 2114 | rVV4 | 350313  | 510077  | 7.75%  | 0.440% |
| 90  | 14.557 | 2118 | 2120 | 2122 | rVV  | 551572  | 557660  | 8.48%  | 0.481% |
| 91  | 14.580 | 2122 | 2124 | 2127 | rVV2 | 498189  | 448759  | 6.82%  | 0.387% |
| 92  | 14.627 | 2128 | 2132 | 2139 | rVB4 | 312380  | 471002  | 7.16%  | 0.406% |
| 93  | 15.098 | 2207 | 2212 | 2215 | rBV  | 1819014 | 2983992 | 45.37% | 2.575% |
| 94  | 15.204 | 2227 | 2230 | 2233 | rVB  | 411239  | 408239  | 6.21%  | 0.352% |
| 95  | 15.404 | 2259 | 2264 | 2270 | rVB  | 1130976 | 1586222 | 24.12% | 1.369% |
| 96  | 15.468 | 2270 | 2275 | 2280 | rBV  | 1760712 | 2194980 | 33.37% | 1.894% |
| 97  | 15.527 | 2280 | 2285 | 2288 | rBV  | 828603  | 1180937 | 17.95% | 1.019% |
| 98  | 15.557 | 2288 | 2290 | 2297 | rVB2 | 547414  | 749782  | 11.40% | 0.647% |
| 99  | 17.015 | 2531 | 2538 | 2546 | rVB2 | 656244  | 1314634 | 19.99% | 1.134% |
| 100 | 17.456 | 2608 | 2613 | 2623 | rVB  | 462155  | 965807  | 14.68% | 0.833% |

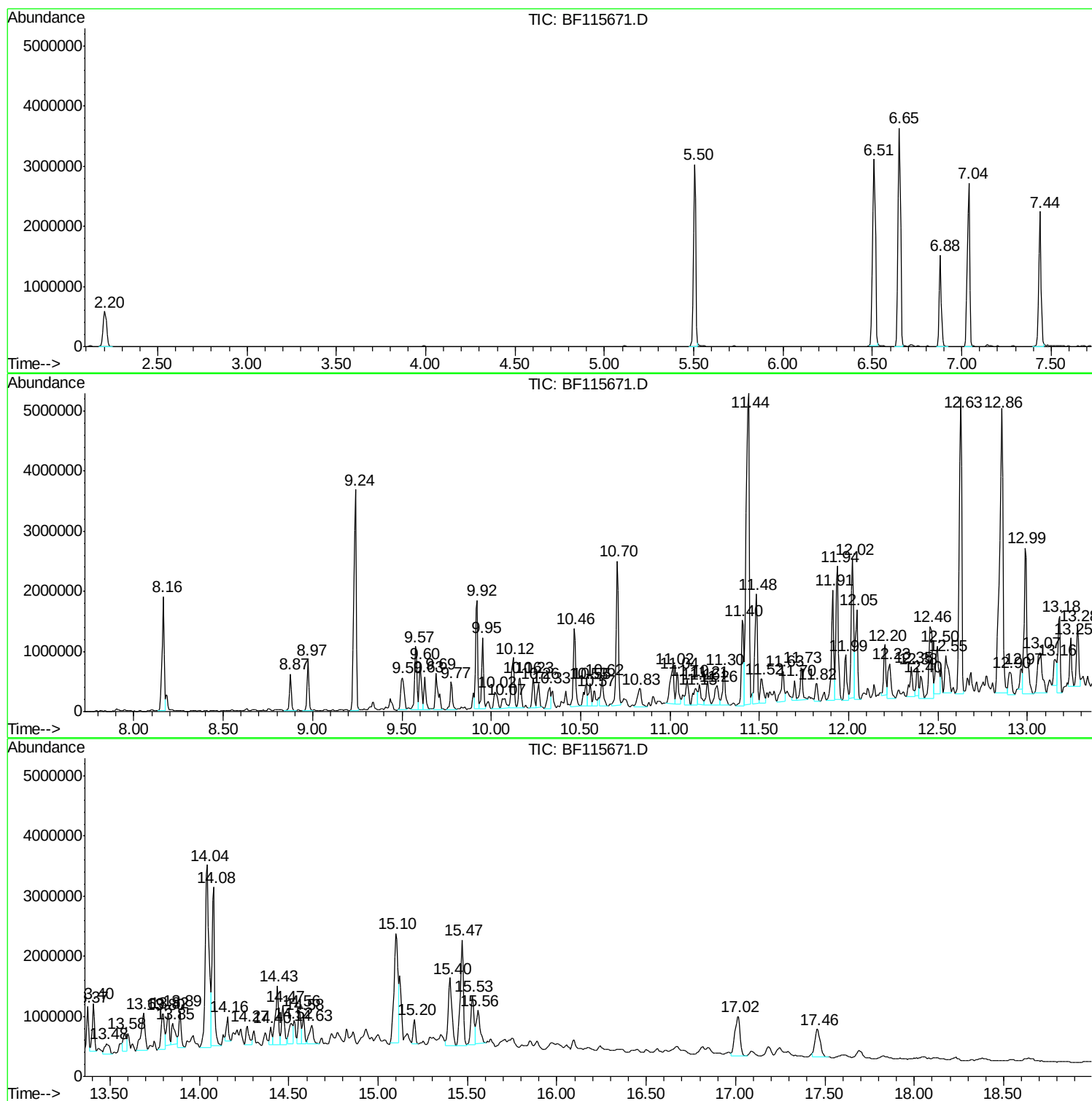
Sum of corrected areas: 115900258

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ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
18107-NYCT-AVE-Z-COMP-3-4

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071219.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\BF071919\  
Data File : BF115671.D  
Acq On : 19 Jul 2019 12:33  
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Sample : K3903-06  
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ALS Vial : 9 Sample Multiplier: 1

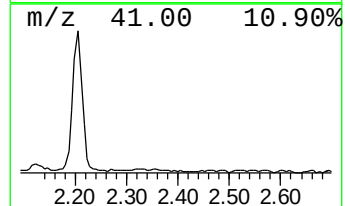
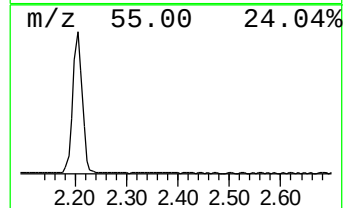
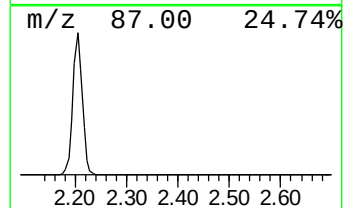
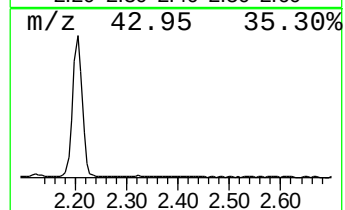
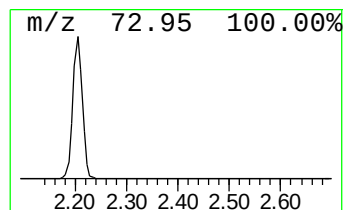
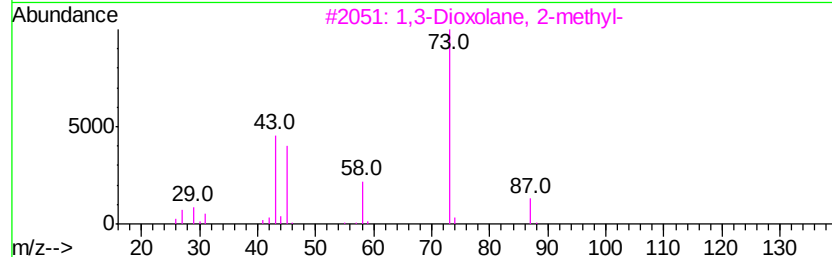
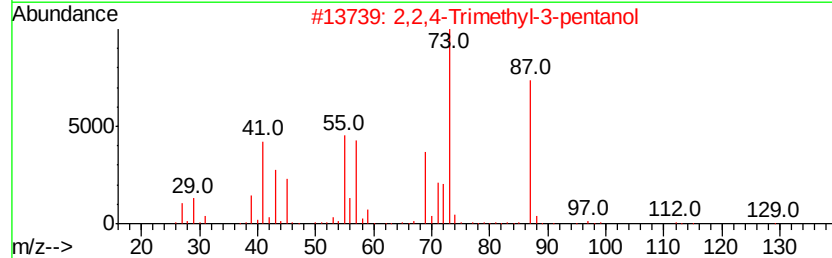
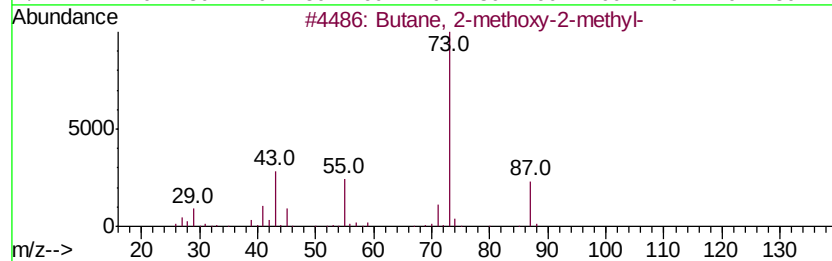
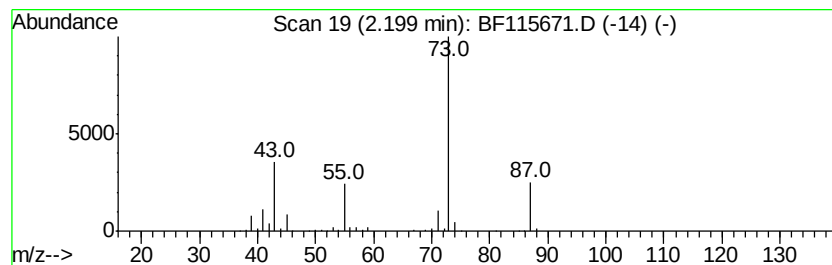
Instrument :  
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ClientSampleId :  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071219.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 11

| R.T.    | EstConc  | Area                        | Relative to ISTD       | R.T.    |             |      |
|---------|----------|-----------------------------|------------------------|---------|-------------|------|
| 2.20    | 11.89 ng | 733179                      | 1,4-Dichlorobenzene-d4 | 6.88    |             |      |
| Hit# of | 5        | Tentative ID                | MW                     | MolForm | CAS#        | Qual |
| 1       |          | Butane, 2-methoxy-2-methyl- | 102                    | C6H14O  | 000994-05-8 | 78   |
| 2       |          | 2,2,4-Trimethyl-3-pentanol  | 130                    | C8H18O  | 005162-48-1 | 39   |
| 3       |          | 1,3-Dioxolane, 2-methyl-    | 88                     | C4H8O2  | 000497-26-7 | 25   |
| 4       |          | Pentane, 3-methoxy-         | 102                    | C6H14O  | 036839-67-5 | 23   |
| 5       |          | Silane, tetramethyl-        | 88                     | C4H12Si | 000075-76-3 | 17   |



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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

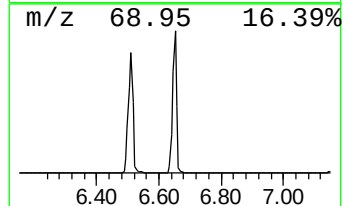
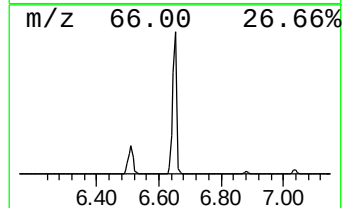
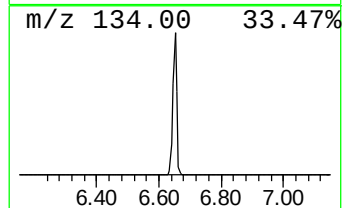
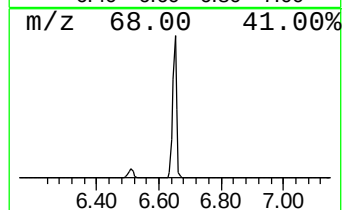
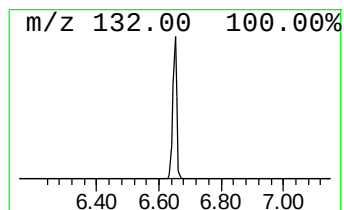
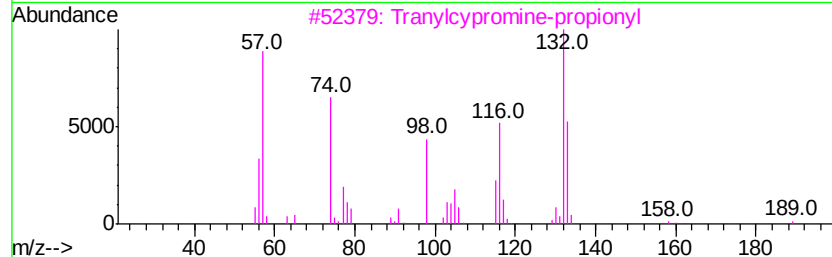
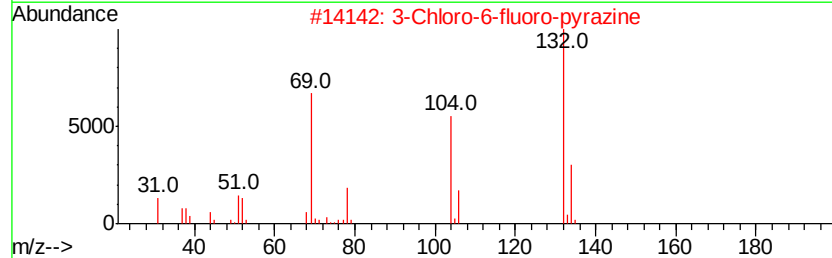
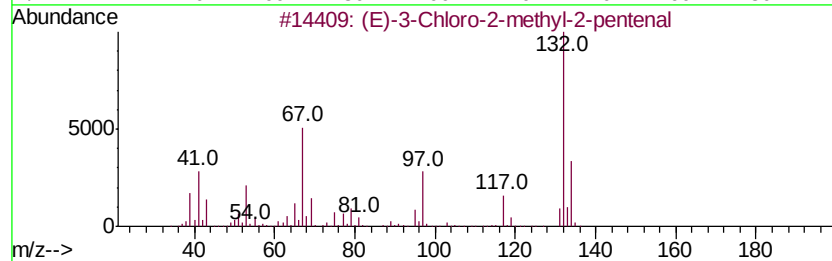
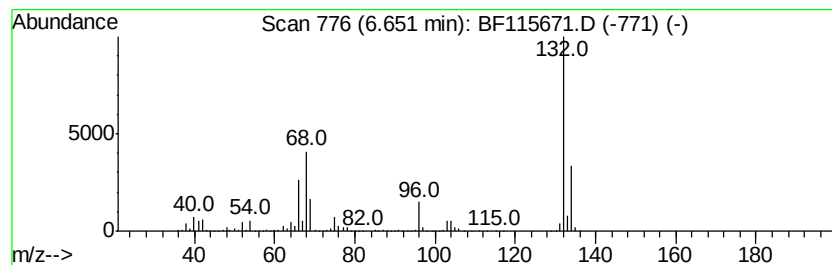
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 2 unknown6.65 Concentration Rank 1

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.65 | 53.39 ng | 3291430 | 1,4-Dichlorobenzene-d4 | 6.88 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | (E)-3-Chloro-2-methyl-2-pentenal    | 132 | C6H9ClO   | 031357-76-3  | 16   |
| 2    |    | 3-Chloro-6-fluoro-pyrazine          | 132 | C4H2ClFN2 | 1000146-10-7 | 16   |
| 3    |    | Tranvlcypropine-propionyl           | 189 | C12H15NO  | 1000123-86-3 | 12   |
| 4    |    | Bicyclo[4.2.0]octa-1,3,5-triene,... | 132 | C10H12    | 028749-81-7  | 9    |
| 5    |    | 2H-Cyclopenta[d]pyridazine, 2-me... | 132 | C8H8N2    | 022291-85-6  | 9    |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071919\  
Data File : BF115671.D  
Acq On : 19 Jul 2019 12:33  
Operator : HP/JU  
Sample : K3903-06  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

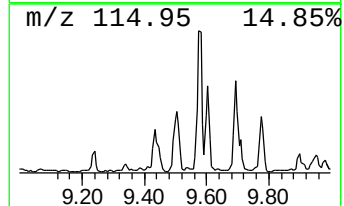
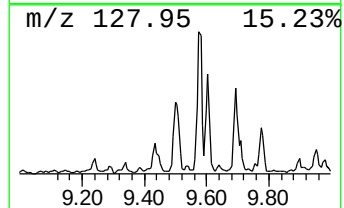
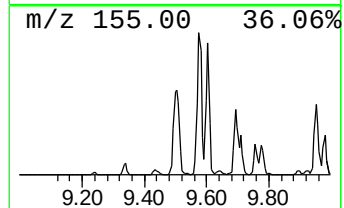
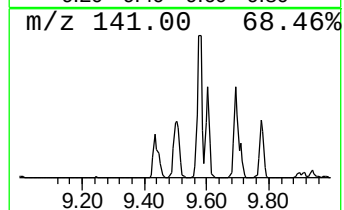
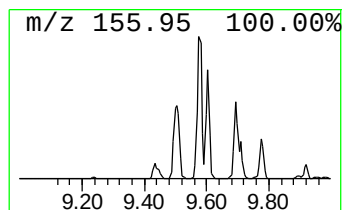
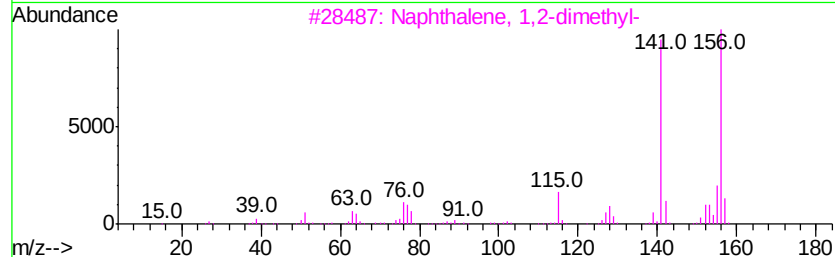
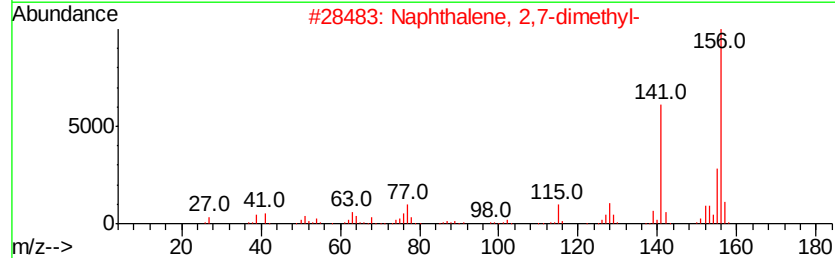
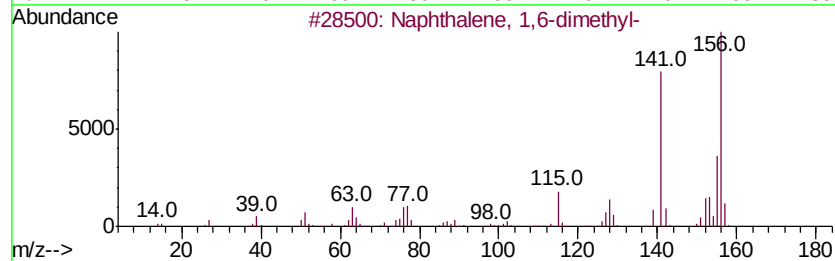
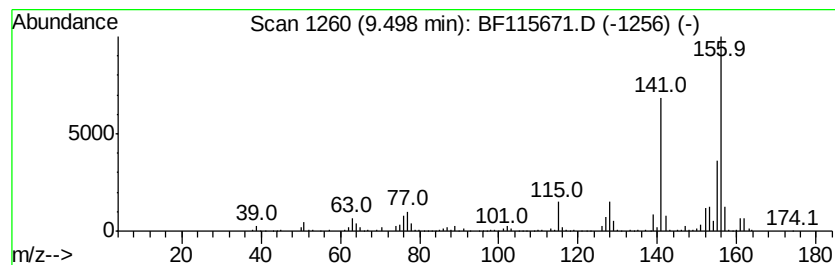
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18107-NYCT-AVE-Z-COMP-3-4

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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 4 Naphthalene, 1,6-dimethyl- Concentration Rank 16

| R.T.    | EstConc | Area                       | Relative to ISTD | R.T.           |
|---------|---------|----------------------------|------------------|----------------|
| 9.50    | 8.70 ng | 717768                     | Acenaphthene-d10 | 9.92           |
| Hit# of | 5       | Tentative ID               | MW MolForm       | CAS# Qual      |
| 1       |         | Naphthalene, 1,6-dimethyl- | 156 C12H12       | 000575-43-9 97 |
| 2       |         | Naphthalene, 2,7-dimethyl- | 156 C12H12       | 000582-16-1 96 |
| 3       |         | Naphthalene, 1,2-dimethyl- | 156 C12H12       | 000573-98-8 96 |
| 4       |         | Naphthalene, 1,7-dimethyl- | 156 C12H12       | 000575-37-1 96 |
| 5       |         | Naphthalene, 2,3-dimethyl- | 156 C12H12       | 000581-40-8 96 |





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071919\  
Data File : BF115671.D  
Acq On : 19 Jul 2019 12:33  
Operator : HP/JU  
Sample : K3903-06  
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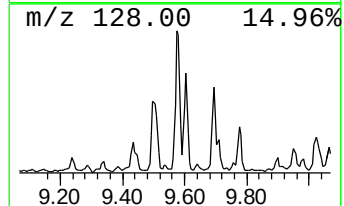
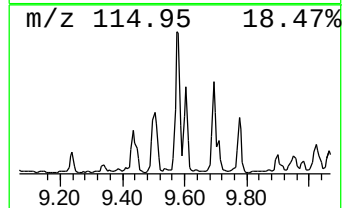
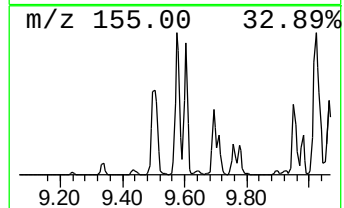
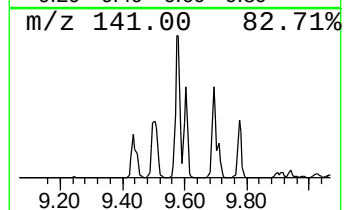
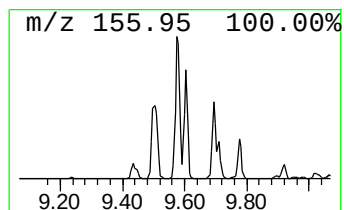
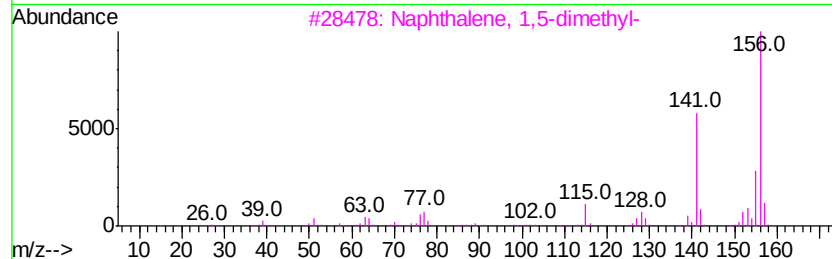
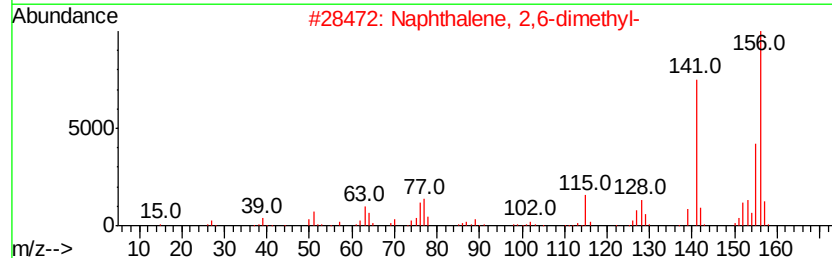
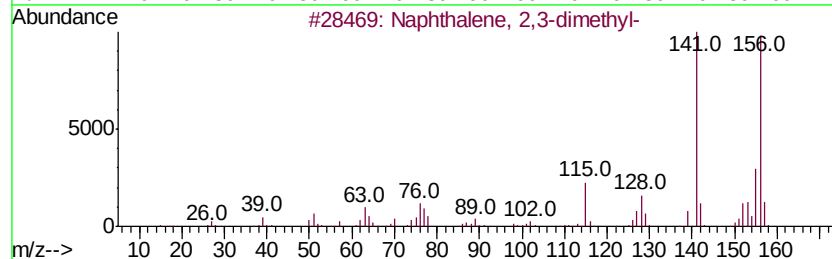
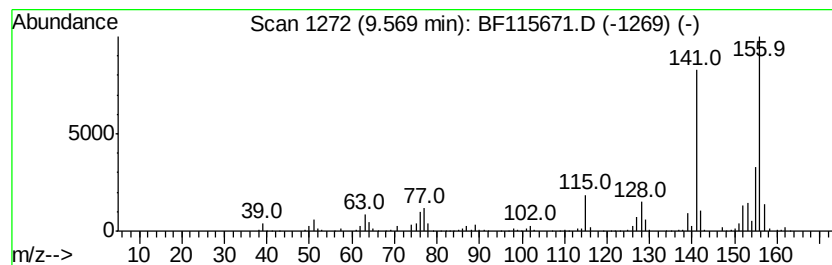
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18107-NYCT-AVE-Z-COMP-3-4

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 5 Naphthalene, 2,3-dimethyl- Concentration Rank 10

| R.T.    | EstConc  | Area                       | Relative to ISTD | R.T.           |
|---------|----------|----------------------------|------------------|----------------|
| 9.57    | 13.40 ng | 1105820                    | Acenaphthene-d10 | 9.92           |
| Hit# of | 5        | Tentative ID               | MW MolForm       | CAS# Qual      |
| 1       |          | Naphthalene, 2,3-dimethyl- | 156 C12H12       | 000581-40-8 98 |
| 2       |          | Naphthalene, 2,6-dimethyl- | 156 C12H12       | 000581-42-0 97 |
| 3       |          | Naphthalene, 1,5-dimethyl- | 156 C12H12       | 000571-61-9 97 |
| 4       |          | Naphthalene, 1,6-dimethyl- | 156 C12H12       | 000575-43-9 97 |
| 5       |          | Naphthalene, 1,4-dimethyl- | 156 C12H12       | 000571-58-4 97 |





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071919\  
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Operator : HP/JU  
Sample : K3903-06  
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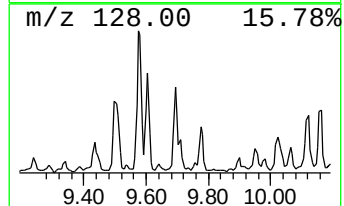
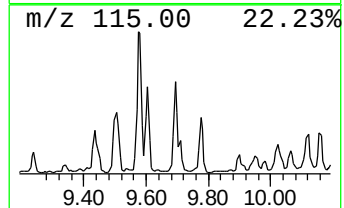
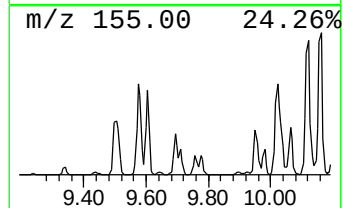
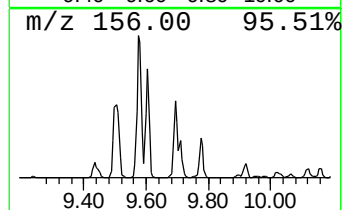
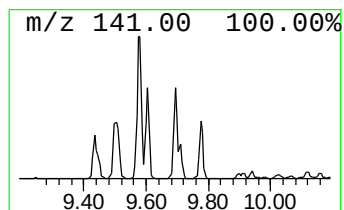
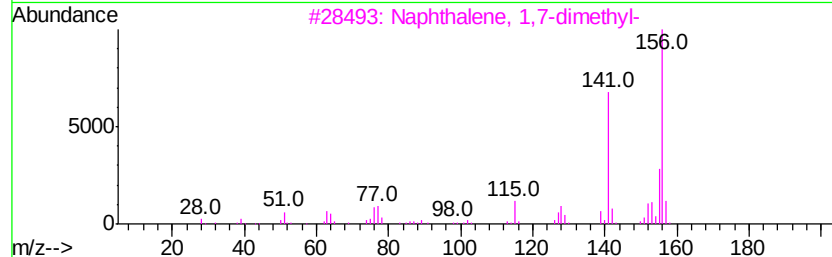
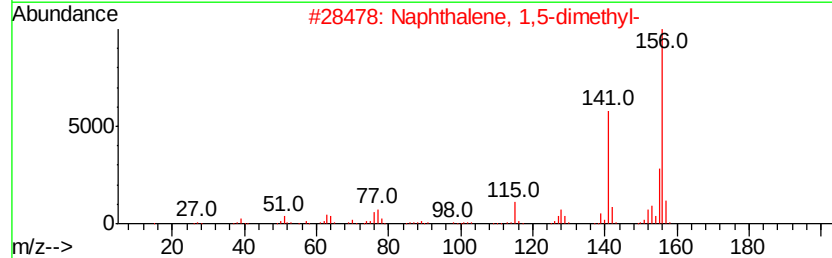
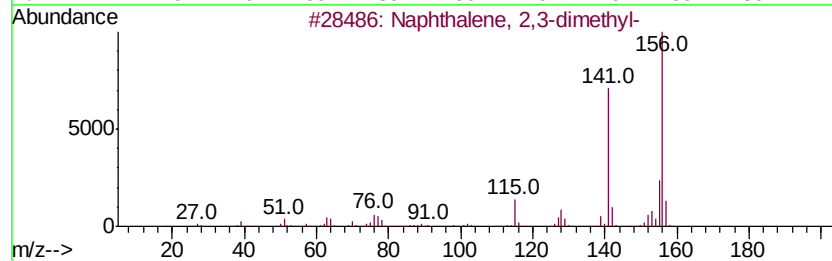
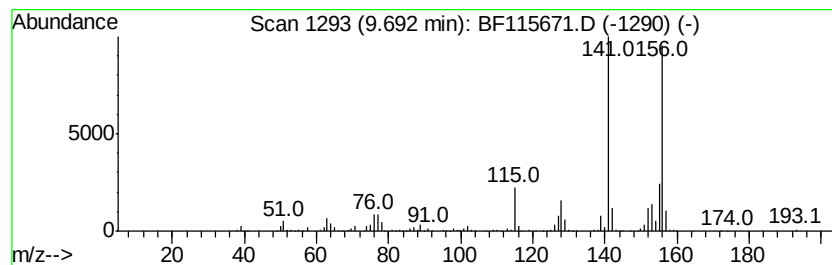
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18107-NYCT-AVE-Z-COMP-3-4

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071219.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 6 Naphthalene, 1,5-dimethyl- Concentration Rank 19

| R.T.      | EstConc                    | Area   | Relative to ISTD |             | R.T. |
|-----------|----------------------------|--------|------------------|-------------|------|
| 9.69      | 8.00 ng                    | 660214 | Acenaphthene-d10 |             | 9.92 |
| Hit# of 5 | Tentative ID               | MW     | MolForm          | CAS#        | Qual |
| 1         | Naphthalene, 2,3-dimethyl- | 156    | C12H12           | 000581-40-8 | 97   |
| 2         | Naphthalene, 1,5-dimethyl- | 156    | C12H12           | 000571-61-9 | 97   |
| 3         | Naphthalene, 1,7-dimethyl- | 156    | C12H12           | 000575-37-1 | 97   |
| 4         | Naphthalene, 1,4-dimethyl- | 156    | C12H12           | 000571-58-4 | 96   |
| 5         | Naphthalene, 1,6-dimethyl- | 156    | C12H12           | 000575-43-9 | 96   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071919\  
Data File : BF115671.D  
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Sample : K3903-06  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

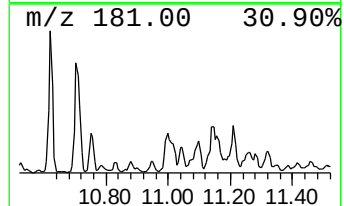
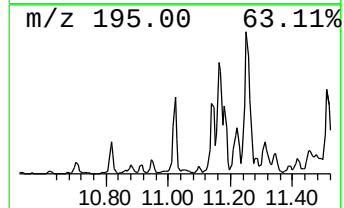
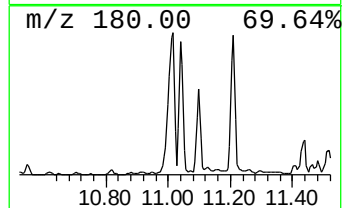
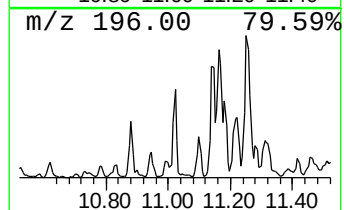
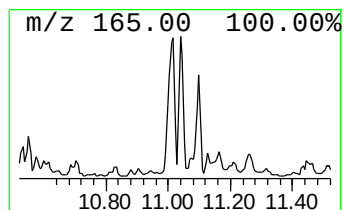
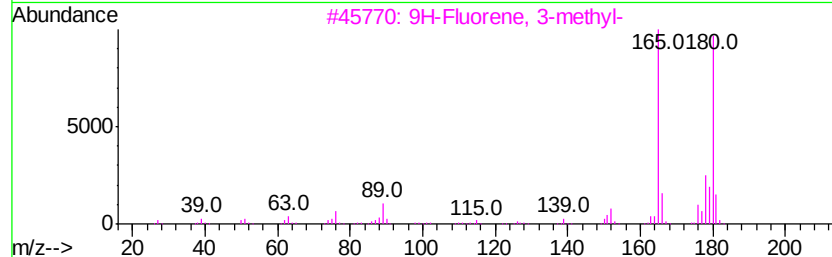
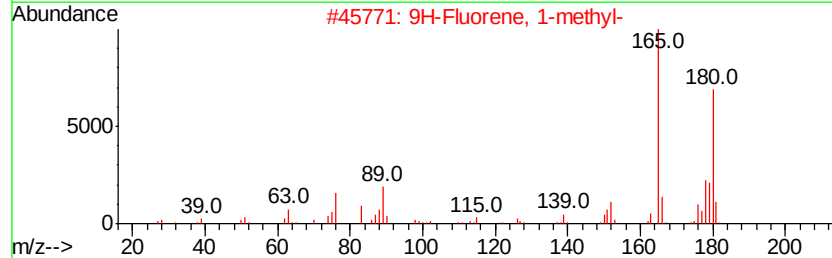
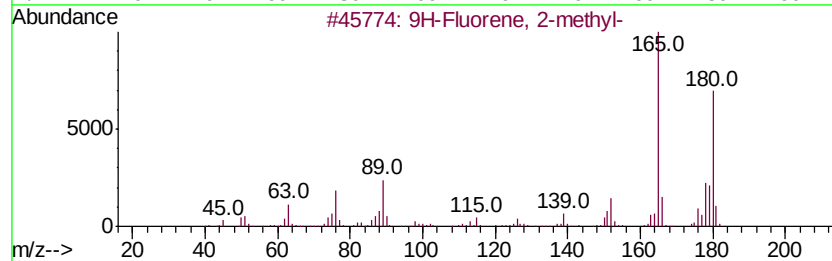
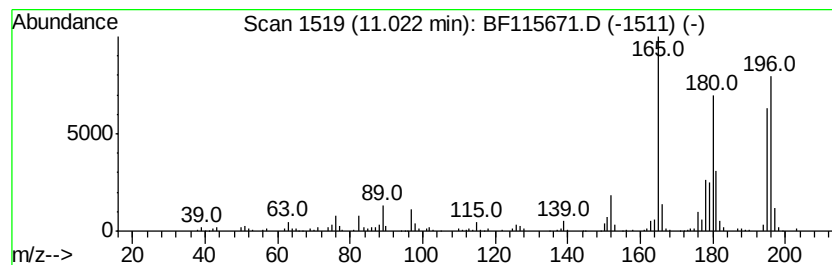
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ClientSampleId :  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071219.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 7 9H-Fluorene, 2-methyl- Concentration Rank 12

| R.T.      | EstConc                   | Area   | Relative to ISTD |             | R.T.  |
|-----------|---------------------------|--------|------------------|-------------|-------|
| 11.02     | 10.93 ng                  | 839449 | Phenanthrene-d10 |             | 11.40 |
| Hit# of 5 | Tentative ID              | MW     | MolForm          | CAS#        | Qual  |
| 1         | 9H-Fluorene, 2-methyl-    | 180    | C14H12           | 001430-97-3 | 96    |
| 2         | 9H-Fluorene, 1-methyl-    | 180    | C14H12           | 001730-37-6 | 96    |
| 3         | 9H-Fluorene, 3-methyl-    | 180    | C14H12           | 002523-39-9 | 96    |
| 4         | 9H-Fluorene, 9-methyl-    | 180    | C14H12           | 002523-37-7 | 94    |
| 5         | 4a,9a-Methano-9H-fluorene | 180    | C14H12           | 019540-84-2 | 86    |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071919\  
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Sample : K3903-06  
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ALS Vial : 9 Sample Multiplier: 1

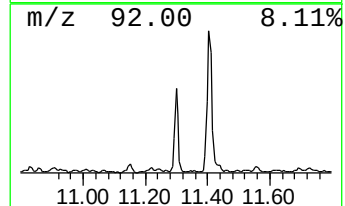
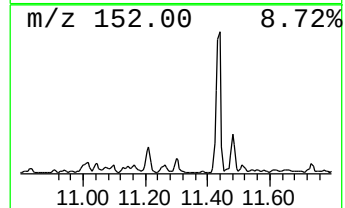
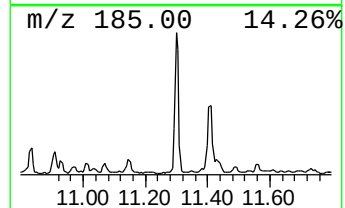
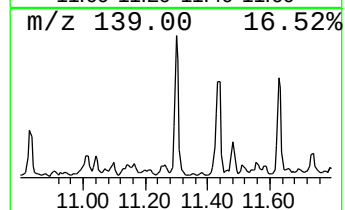
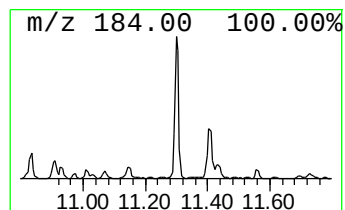
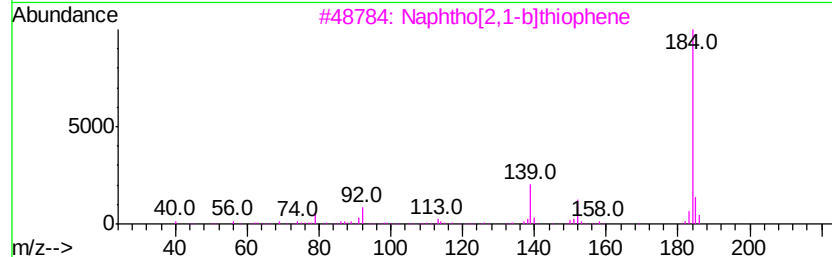
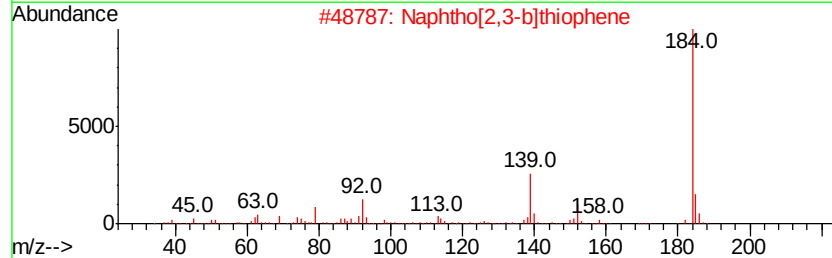
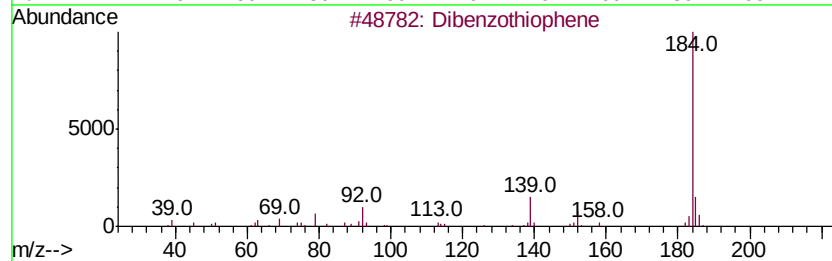
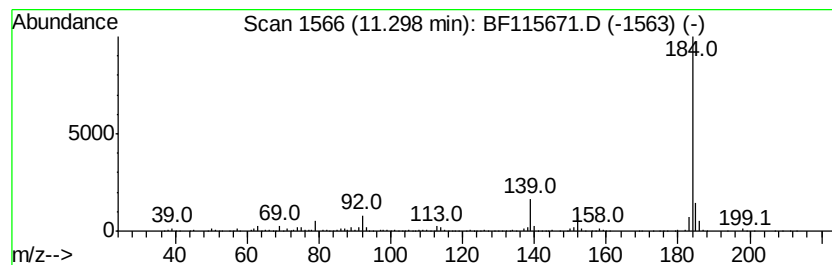
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 8 Dibenzothiophene Concentration Rank 17

| R.T.    | EstConc | Area                    | Relative to ISTD |         | R.T.        |      |
|---------|---------|-------------------------|------------------|---------|-------------|------|
| 11.30   | 8.62 ng | 662342                  | Phenanthrene-d10 |         | 11.40       |      |
| Hit# of | 5       | Tentative ID            | MW               | MolForm | CAS#        | Qual |
| 1       |         | Dibenzothiophene        | 184              | C12H8S  | 000132-65-0 | 96   |
| 2       |         | Naphtho[2,3-b]thiophene | 184              | C12H8S  | 000268-77-9 | 95   |
| 3       |         | Naphtho[2,1-b]thiophene | 184              | C12H8S  | 000233-02-3 | 95   |
| 4       |         | Azuleno(2,1-b)thiophene | 184              | C12H8S  | 000248-13-5 | 91   |
| 5       |         | Naphtho[1,2-b]thiophene | 184              | C12H8S  | 000234-41-3 | 80   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071919\  
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Sample : K3903-06  
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ALS Vial : 9 Sample Multiplier: 1

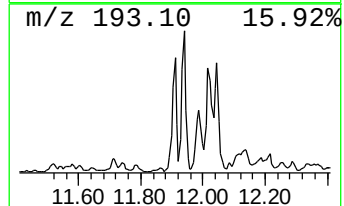
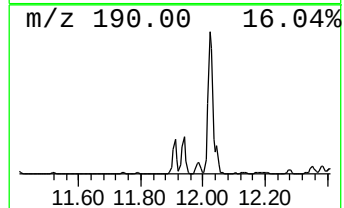
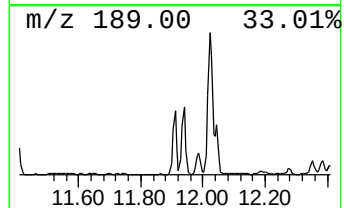
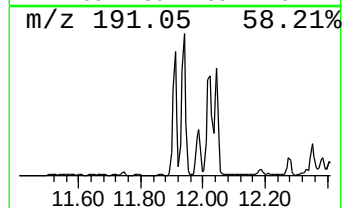
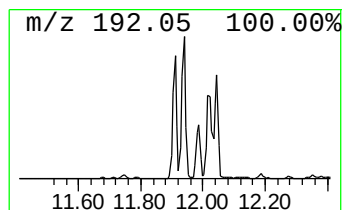
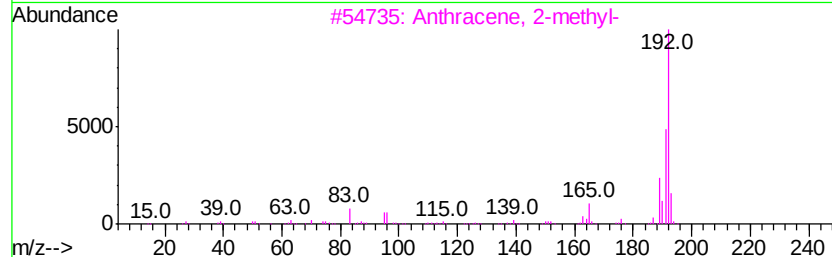
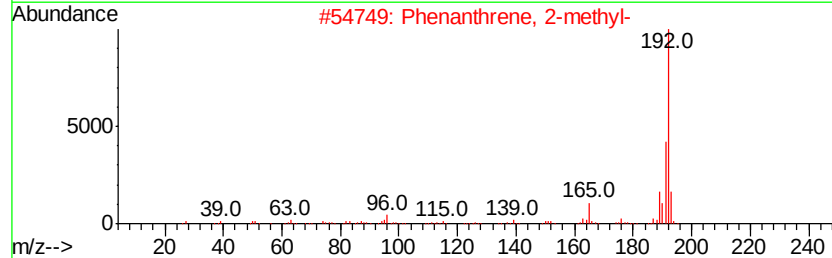
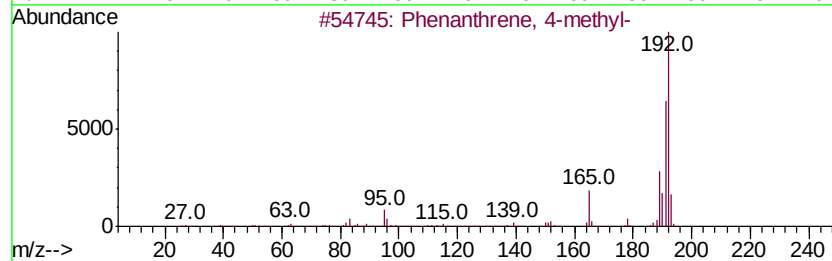
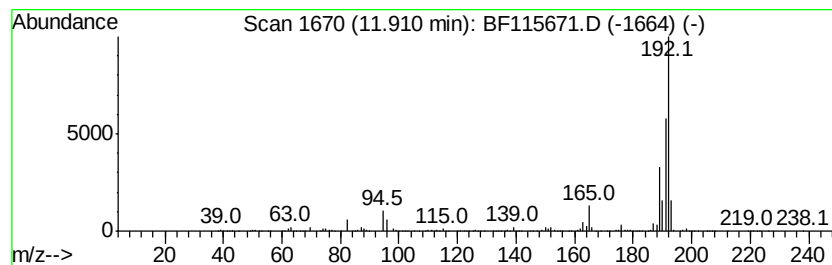
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18107-NYCT-AVE-Z-COMP-3-4

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071219.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 9 Phenanthrene, 4-methyl- Concentration Rank 6

| R.T.      | EstConc                 | Area    | Relative to ISTD | R.T.        |      |
|-----------|-------------------------|---------|------------------|-------------|------|
| 11.91     | 22.90 ng                | 1759370 | Phenanthrene-d10 | 11.40       |      |
| Hit# of 5 | Tentative ID            | MW      | MolForm          | CAS#        | Qual |
| 1         | Phenanthrene, 4-methyl- | 192     | C15H12           | 000832-64-4 | 95   |
| 2         | Phenanthrene, 2-methyl- | 192     | C15H12           | 002531-84-2 | 95   |
| 3         | Anthracene, 2-methyl-   | 192     | C15H12           | 000613-12-7 | 95   |
| 4         | Phenanthrene, 1-methyl- | 192     | C15H12           | 000832-69-9 | 93   |
| 5         | Anthracene, 9-methyl-   | 192     | C15H12           | 000779-02-2 | 91   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071919\  
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ALS Vial : 9 Sample Multiplier: 1

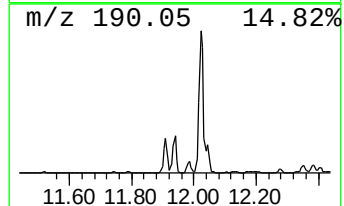
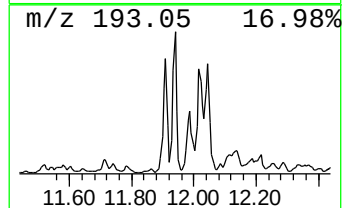
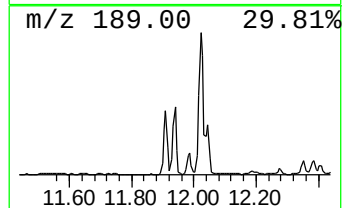
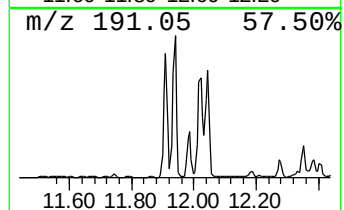
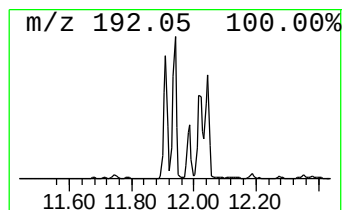
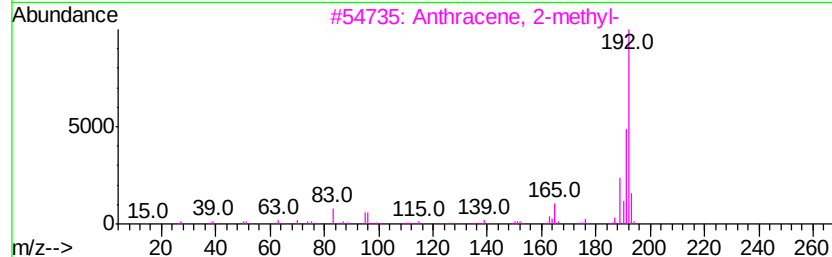
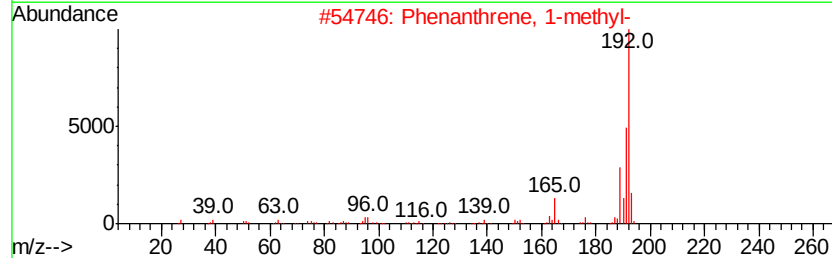
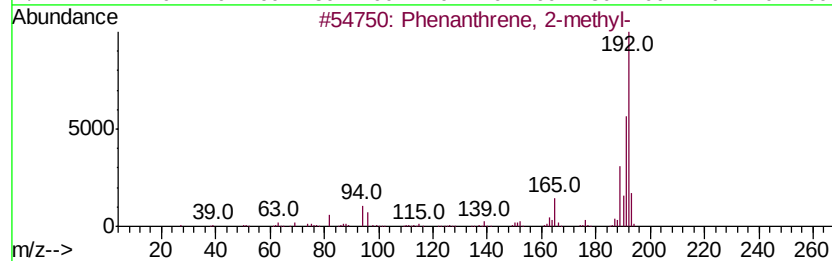
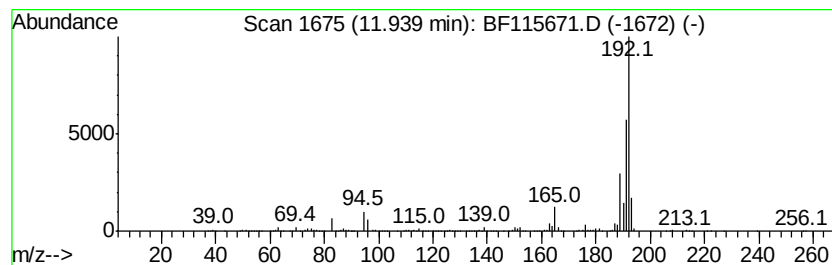
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ClientSampleId :  
18107-NYCT-AVE-Z-COMP-3-4

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 10 Phenanthrene, 2-methyl- Concentration Rank 4

| R.T.      | EstConc                               | Area    | Relative to ISTD | R.T.        |      |
|-----------|---------------------------------------|---------|------------------|-------------|------|
| 11.94     | 27.36 ng                              | 2102150 | Phenanthrene-d10 | 11.40       |      |
| Hit# of 5 | Tentative ID                          | MW      | MolForm          | CAS#        | Qual |
| 1         | Phenanthrene, 2-methyl-               | 192     | C15H12           | 002531-84-2 | 98   |
| 2         | Phenanthrene, 1-methyl-               | 192     | C15H12           | 000832-69-9 | 97   |
| 3         | Anthracene, 2-methyl-                 | 192     | C15H12           | 000613-12-7 | 96   |
| 4         | 1H-Indene, 2-phenyl-                  | 192     | C15H12           | 004505-48-0 | 95   |
| 5         | 1H-Cyclopropa[l]phenanthrene, 1a, ... | 192     | C15H12           | 000949-41-7 | 95   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071919\  
Data File : BF115671.D  
Acq On : 19 Jul 2019 12:33  
Operator : HP/JU  
Sample : K3903-06  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

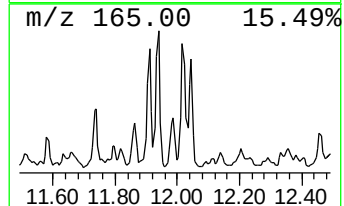
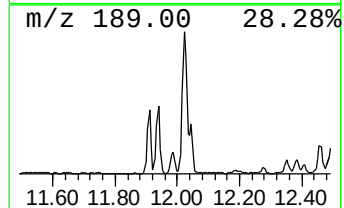
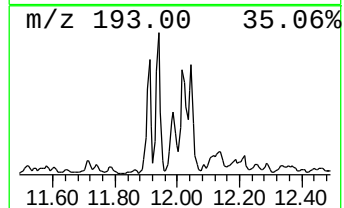
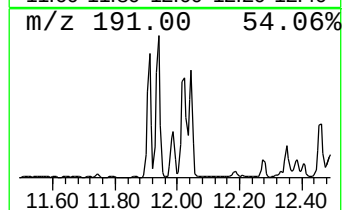
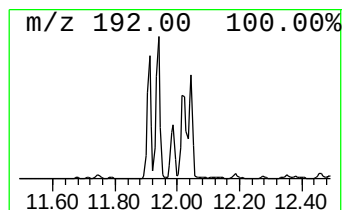
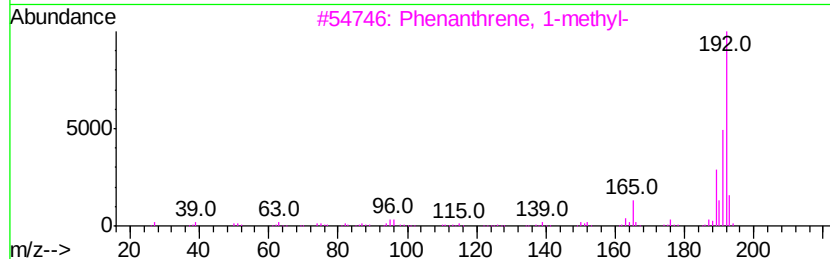
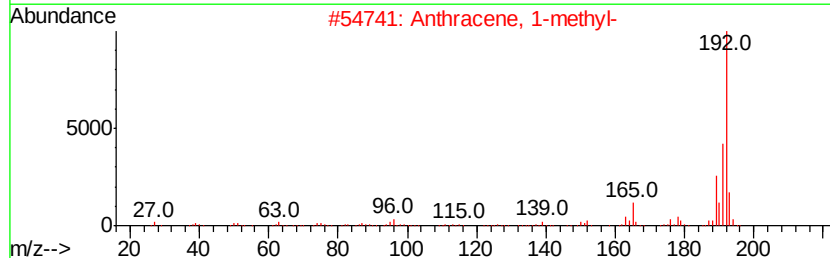
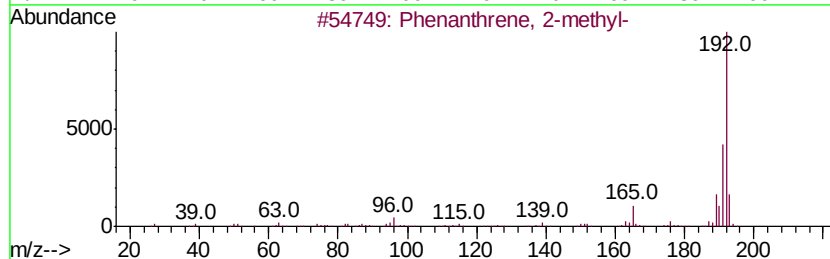
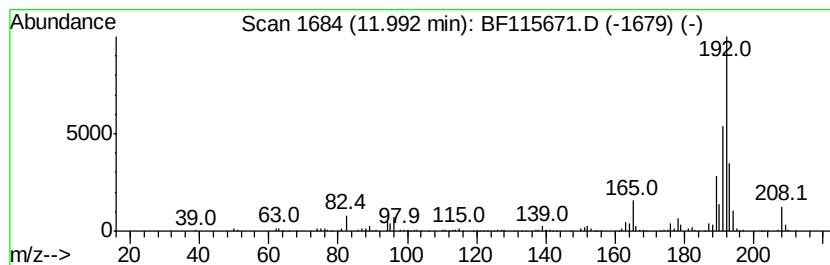
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ClientSampleId :  
18107-NYCT-AVE-Z-COMP-3-4

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071219.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 11 Phenanthrene, 1-methyl- Concentration Rank 15

| R.T.      | EstConc                               | Area   | Relative to ISTD | R.T.        |      |
|-----------|---------------------------------------|--------|------------------|-------------|------|
| 11.99     | 9.45 ng                               | 726100 | Phenanthrene-d10 | 11.40       |      |
| Hit# of 5 | Tentative ID                          | MW     | MolForm          | CAS#        | Qual |
| 1         | Phenanthrene, 2-methyl-               | 192    | C15H12           | 002531-84-2 | 96   |
| 2         | Anthracene, 1-methyl-                 | 192    | C15H12           | 000610-48-0 | 96   |
| 3         | Phenanthrene, 1-methyl-               | 192    | C15H12           | 000832-69-9 | 96   |
| 4         | 1H-Cyclopropa[1,1]phenanthrene,1a,... | 192    | C15H12           | 000949-41-7 | 96   |
| 5         | Anthracene, 9-methyl-                 | 192    | C15H12           | 000779-02-2 | 94   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071919\  
Data File : BF115671.D  
Acq On : 19 Jul 2019 12:33  
Operator : HP/JU  
Sample : K3903-06  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
18107-NYCT-AVE-Z-COMP-3-4

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

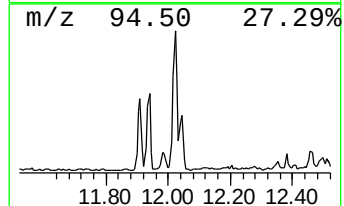
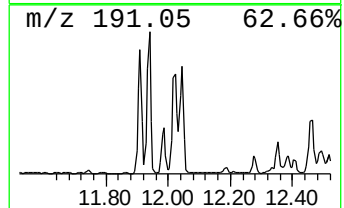
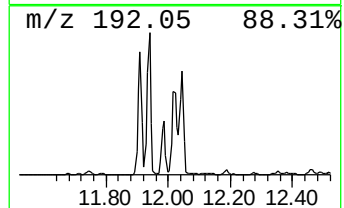
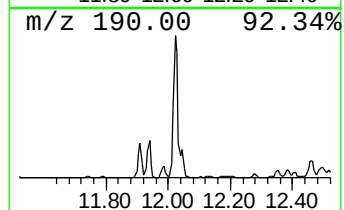
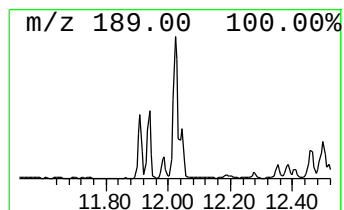
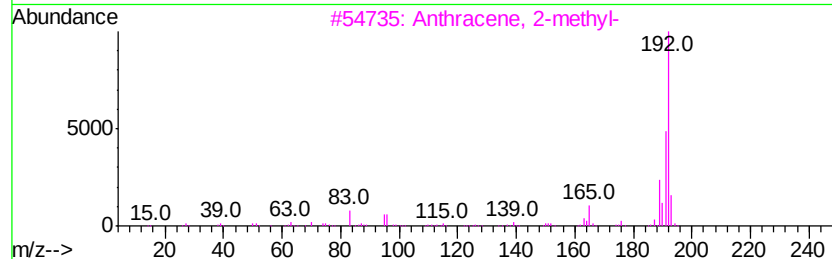
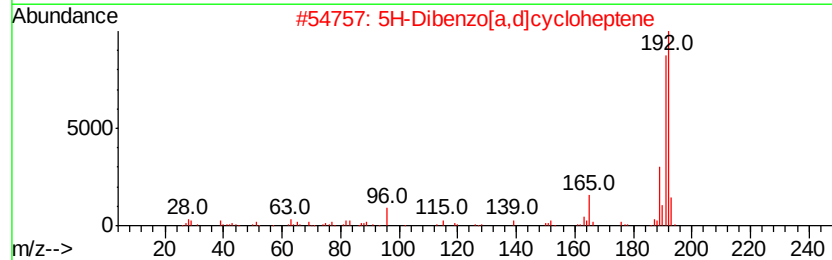
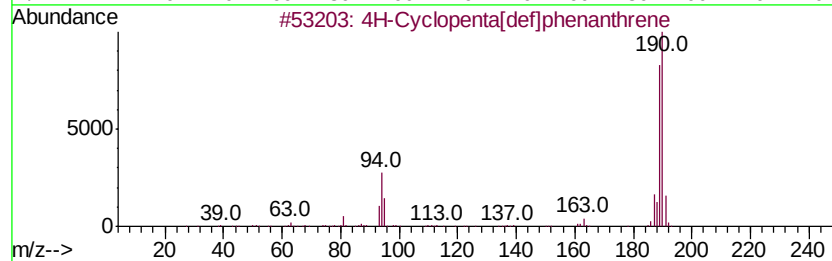
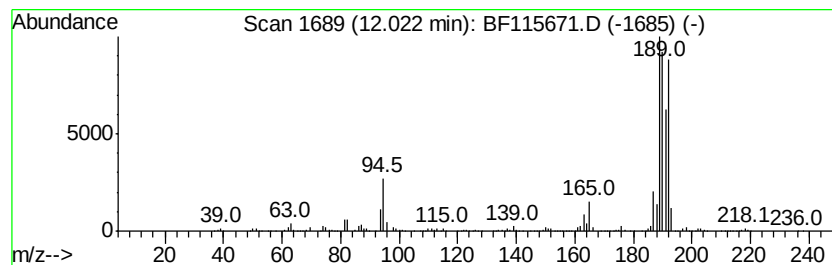
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TIC Integration Parameters: LSCINT.P

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Peak Number 12 4H-Cyclopenta[def]phenanthrene Concentration Rank 3

| R.T.  | EstConc  | Area    | Relative to ISTD | R.T.  |
|-------|----------|---------|------------------|-------|
| 12.02 | 33.11 ng | 2543760 | Phenanthrene-d10 | 11.40 |

| Hit# | of | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------------|-----|---------|-------------|------|
| 1    | 5  | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10  | 000203-64-5 | 53   |
| 2    |    | 5H-Dibenzo[a,d]cycloheptene    | 192 | C15H12  | 000256-81-5 | 42   |
| 3    |    | Anthracene, 2-methyl-          | 192 | C15H12  | 000613-12-7 | 38   |
| 4    |    | 1H-Indene, 2-phenyl-           | 192 | C15H12  | 004505-48-0 | 38   |
| 5    |    | Naphtho[2,3-b]norbornadiene    | 192 | C15H12  | 107426-38-0 | 38   |





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071919\  
Data File : BF115671.D  
Acq On : 19 Jul 2019 12:33  
Operator : HP/JU  
Sample : K3903-06  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
18107-NYCT-AVE-Z-COMP-3-4

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071219.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

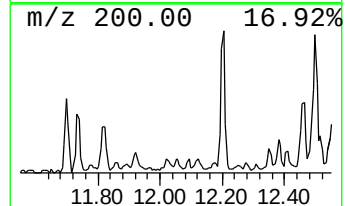
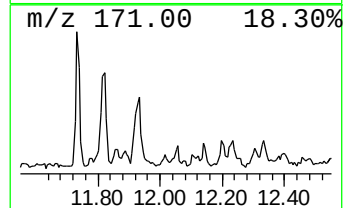
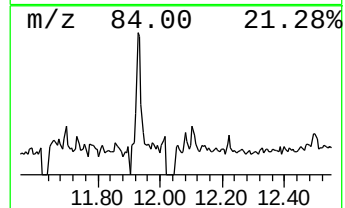
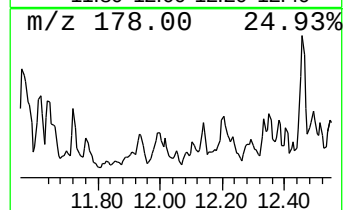
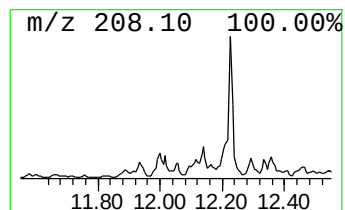
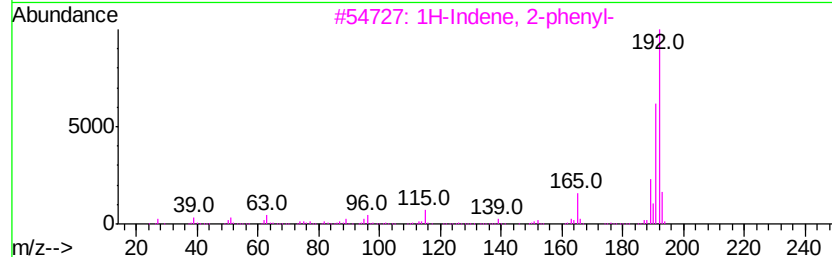
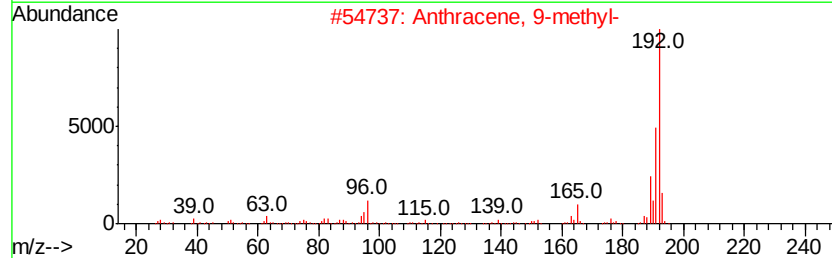
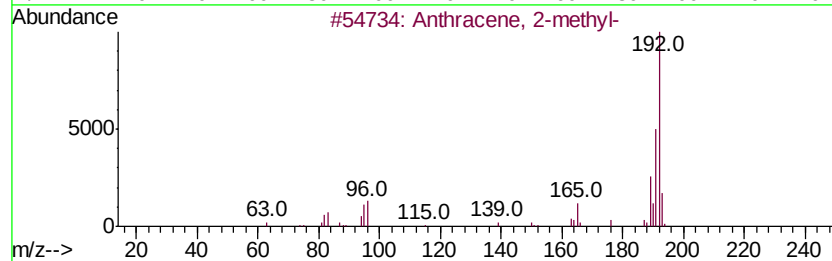
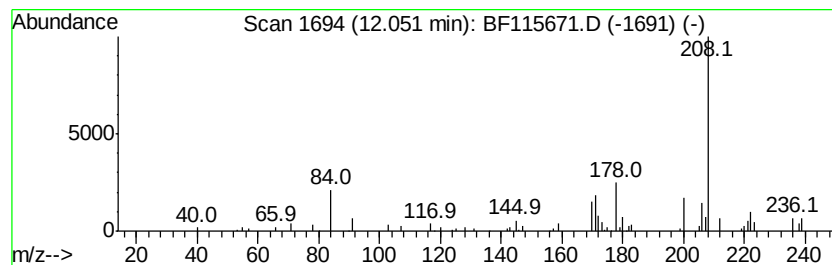
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TIC Integration Parameters: LSCINT.P

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Peak Number 13 Anthracene, 2-methyl- Concentration Rank 8

| R.T.  | EstConc  | Area    | Relative to ISTD | R.T.  |
|-------|----------|---------|------------------|-------|
| 12.05 | 14.73 ng | 1131670 | Phenanthrene-d10 | 11.40 |

| Hit# | of | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------|-----|---------|-------------|------|
| 1    | 5  | Anthracene, 2-methyl-   | 192 | C15H12  | 000613-12-7 | 93   |
| 2    |    | Anthracene, 9-methyl-   | 192 | C15H12  | 000779-02-2 | 90   |
| 3    |    | 1H-Indene, 2-phenyl-    | 192 | C15H12  | 004505-48-0 | 90   |
| 4    |    | Phenanthrene, 2-methyl- | 192 | C15H12  | 002531-84-2 | 90   |
| 5    |    | Anthracene, 1-methyl-   | 192 | C15H12  | 000610-48-0 | 87   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071919\  
Data File : BF115671.D  
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Operator : HP/JU  
Sample : K3903-06  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

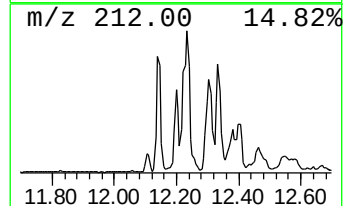
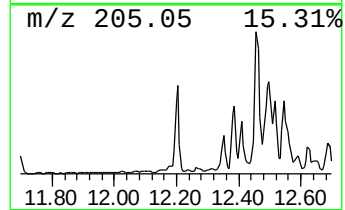
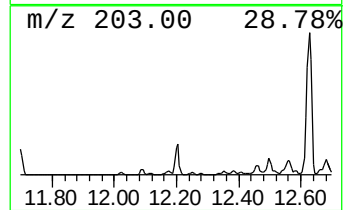
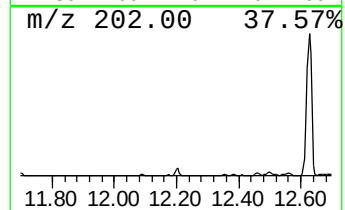
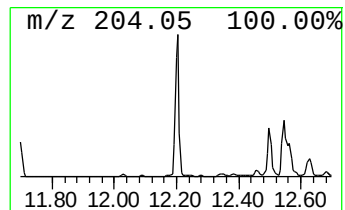
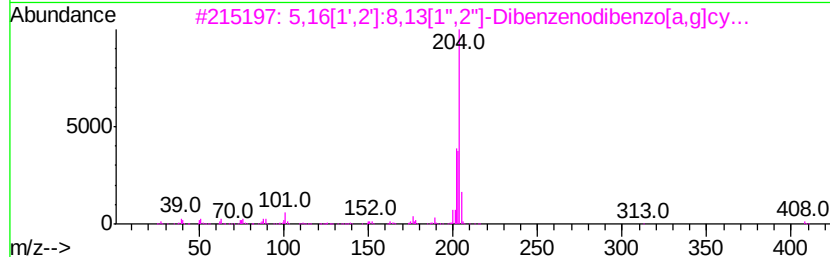
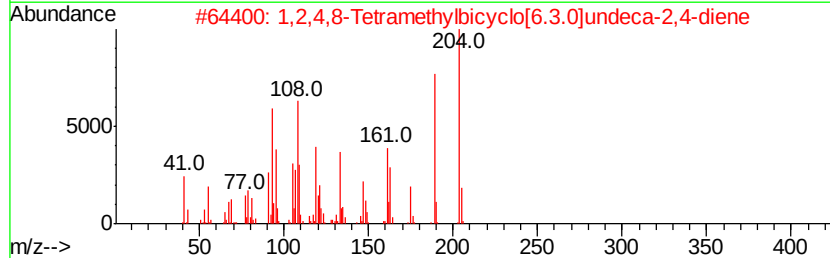
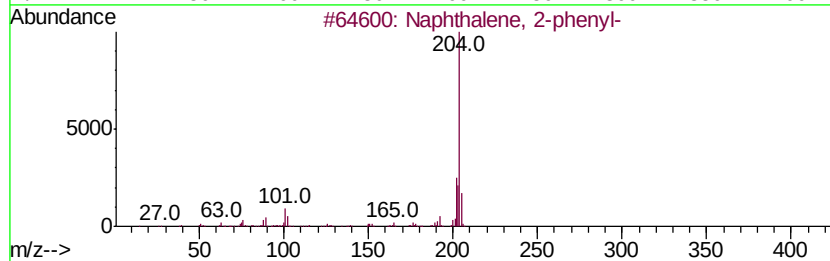
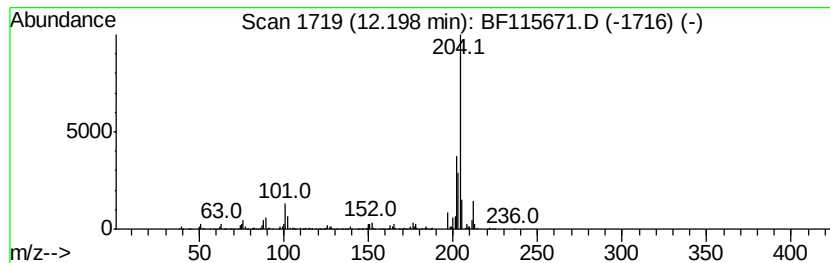
Instrument :  
BNA\_F  
ClientSampleId :  
18107-NYCT-AVE-Z-COMP-3-4

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071219.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 14 Naphthalene, 2-phenyl- Concentration Rank 14

| R.T.    | EstConc  | Area                                | Relative to ISTD |           | R.T.        |      |
|---------|----------|-------------------------------------|------------------|-----------|-------------|------|
| 12.20   | 10.55 ng | 810918                              | Phenanthrene-d10 |           | 11.40       |      |
| Hit# of | 5        | Tentative ID                        | MW               | MolForm   | CAS#        | Qual |
| 1       |          | Naphthalene, 2-phenyl-              | 204              | C16H12    | 000612-94-2 | 89   |
| 2       |          | 1,2,4,8-Tetramethylbicyclo[6.3.0... | 204              | C15H24    | 137235-51-9 | 83   |
| 3       |          | 5,16[1',2']8,13[1'',2'']-Dibenz...  | 408              | C32H24    | 005672-97-9 | 83   |
| 4       |          | Tricyclo[8.2.2.2(4,7)]hexadeca-2... | 204              | C16H12    | 006572-60-7 | 68   |
| 5       |          | 9,10-Bis(bromomethyl)anthracene     | 362              | C16H12Br2 | 034373-96-1 | 58   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071919\  
Data File : BF115671.D  
Acq On : 19 Jul 2019 12:33  
Operator : HP/JU  
Sample : K3903-06  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
18107-NYCT-AVE-Z-COMP-3-4

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071219.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

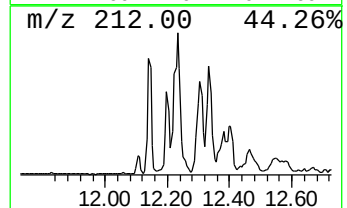
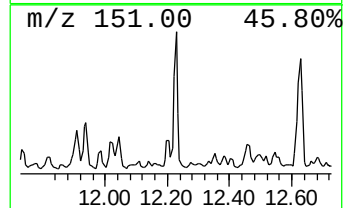
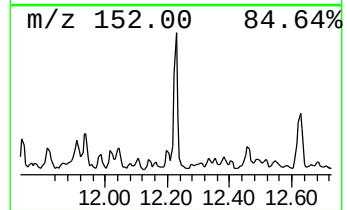
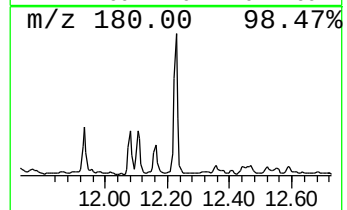
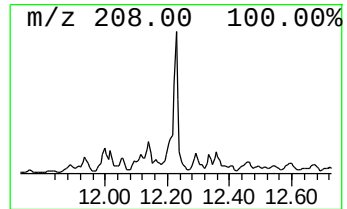
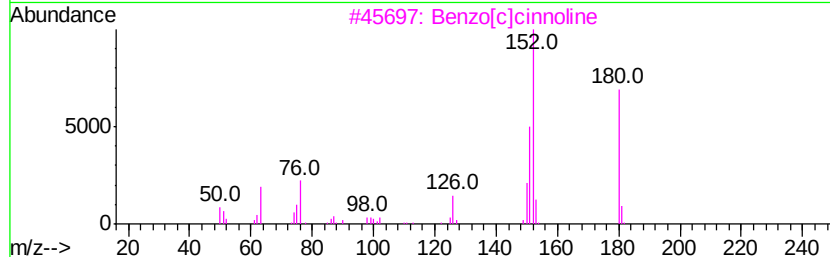
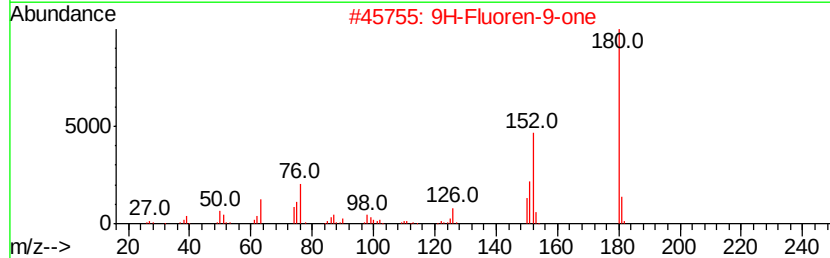
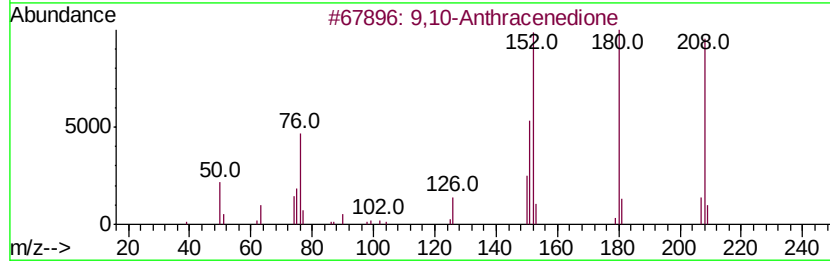
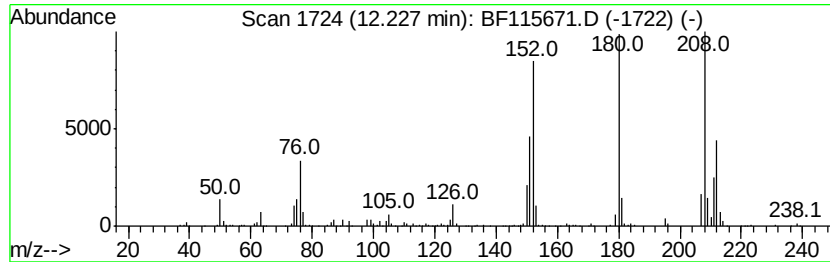
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 15 9,10-Anthracenedione Concentration Rank 20

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 12.23 | 7.61 ng | 584367 | Phenanthrene-d10 | 11.40 |

| Hit# | of | 5 | Tentative ID         | MW  | MolForm | CAS#        | Qual |
|------|----|---|----------------------|-----|---------|-------------|------|
| 1    |    |   | 9,10-Anthracenedione | 208 | C14H8O2 | 000084-65-1 | 98   |
| 2    |    |   | 9H-Fluoren-9-one     | 180 | C13H8O  | 000486-25-9 | 60   |
| 3    |    |   | Benzo[c]cinnoline    | 180 | C12H8N2 | 000230-17-1 | 55   |
| 4    |    |   | Benzo[h]cinnoline    | 180 | C12H8N2 | 000230-31-9 | 50   |
| 5    |    |   | 1H-Phenalen-1-one    | 180 | C13H8O  | 000548-39-0 | 50   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071919\  
Data File : BF115671.D  
Acq On : 19 Jul 2019 12:33  
Operator : HP/JU  
Sample : K3903-06  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

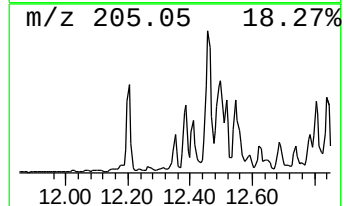
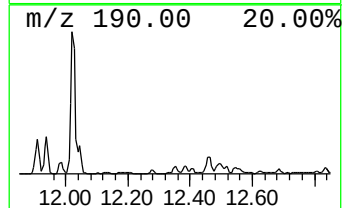
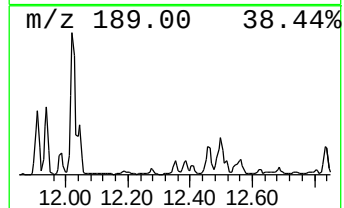
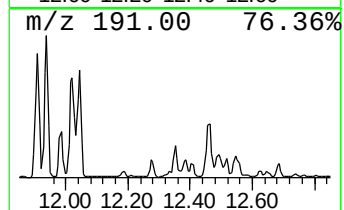
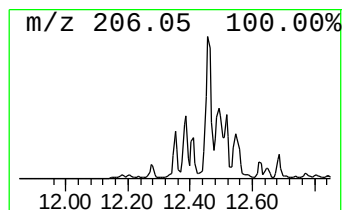
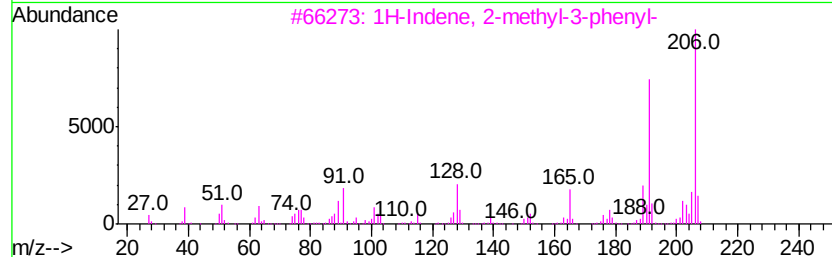
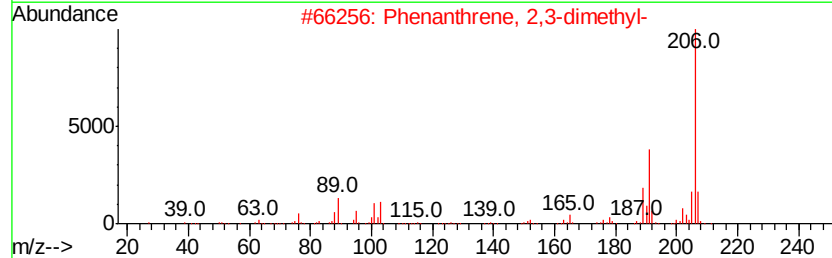
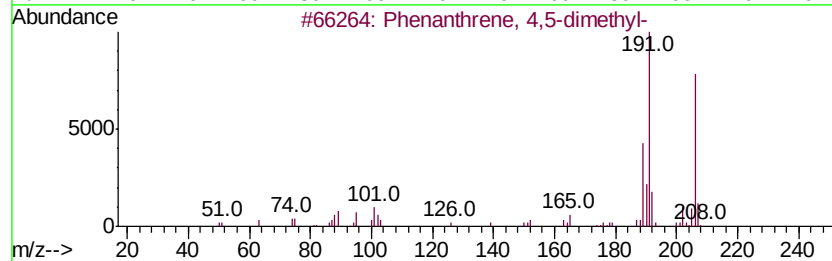
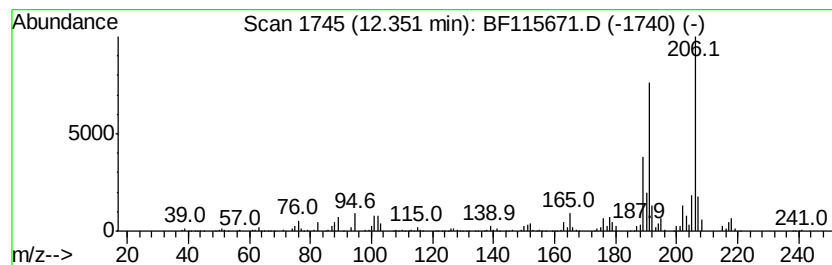
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ClientSampleId :  
18107-NYCT-AVE-Z-COMP-3-4

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071219.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 16 Phenanthrene, 4,5-dimethyl- Concentration Rank 18

| R.T.    | EstConc | Area                          | Relative to ISTD |         | R.T.        |      |
|---------|---------|-------------------------------|------------------|---------|-------------|------|
| 12.35   | 8.14 ng | 625135                        | Phenanthrene-d10 |         | 11.40       |      |
| Hit# of | 5       | Tentative ID                  | MW               | MolForm | CAS#        | Qual |
| 1       |         | Phenanthrene, 4,5-dimethyl-   | 206              | C16H14  | 003674-69-9 | 95   |
| 2       |         | Phenanthrene, 2,3-dimethyl-   | 206              | C16H14  | 003674-65-5 | 90   |
| 3       |         | 1H-Indene, 2-methyl-3-phenyl- | 206              | C16H14  | 035099-60-6 | 81   |
| 4       |         | Anthracene, 2-ethyl-          | 206              | C16H14  | 052251-71-5 | 81   |
| 5       |         | Phenanthrene, 2,5-dimethyl-   | 206              | C16H14  | 003674-66-6 | 76   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071919\  
Data File : BF115671.D  
Acq On : 19 Jul 2019 12:33  
Operator : HP/JU  
Sample : K3903-06  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
18107-NYCT-AVE-Z-COMP-3-4

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071219.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

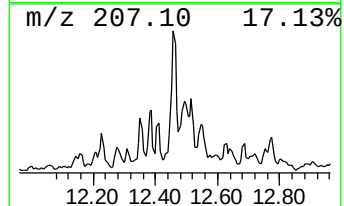
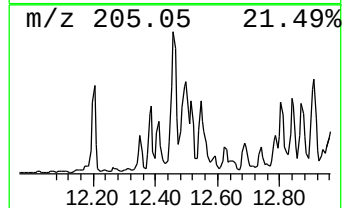
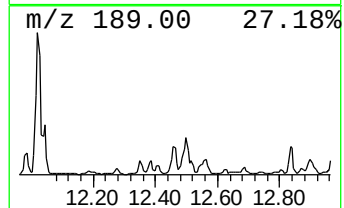
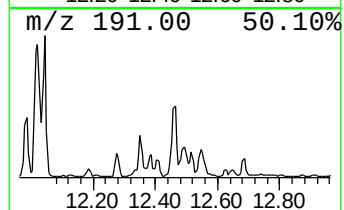
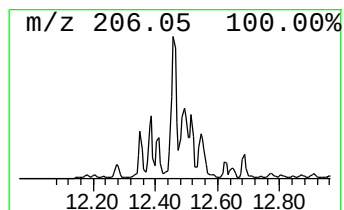
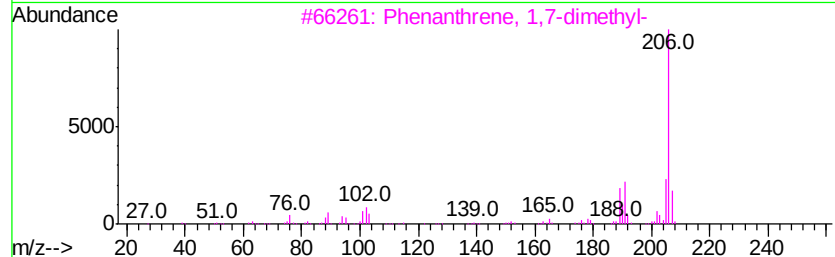
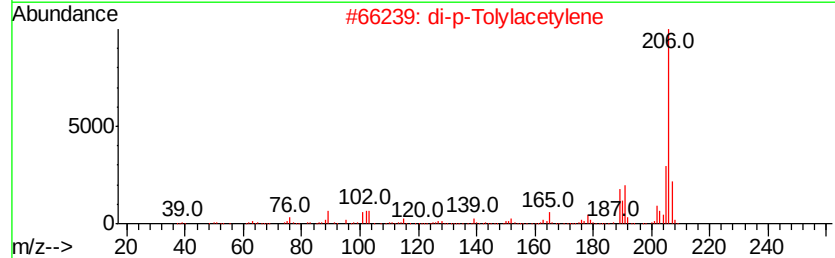
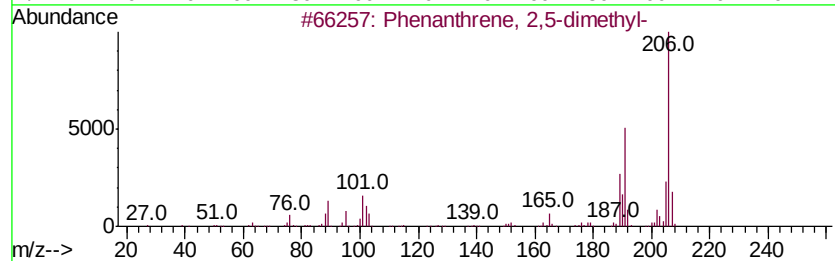
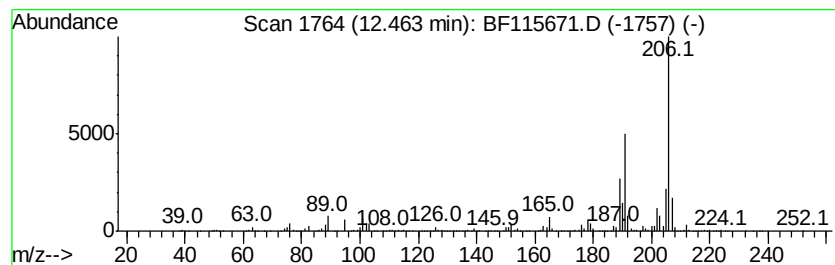
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 17 Phenanthrene, 2,5-dimethyl- Concentration Rank 7

| R.T.  | EstConc  | Area    | Relative to ISTD | R.T.  |
|-------|----------|---------|------------------|-------|
| 12.46 | 18.89 ng | 1450970 | Phenanthrene-d10 | 11.40 |

| Hit# | of | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------------|-----|---------|-------------|------|
| 1    | 5  | Phenanthrene, 2,5-dimethyl- | 206 | C16H14  | 003674-66-6 | 98   |
| 2    |    | di-p-Tolylacetylene         | 206 | C16H14  | 002789-88-0 | 96   |
| 3    |    | Phenanthrene, 1,7-dimethyl- | 206 | C16H14  | 000483-87-4 | 94   |
| 4    |    | 9,10-Dimethylantracene      | 206 | C16H14  | 000781-43-1 | 93   |
| 5    |    | Phenanthrene, 2,3-dimethyl- | 206 | C16H14  | 003674-65-5 | 93   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071919\  
Data File : BF115671.D  
Acq On : 19 Jul 2019 12:33  
Operator : HP/JU  
Sample : K3903-06  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
18107-NYCT-AVE-Z-COMP-3-4

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071219.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

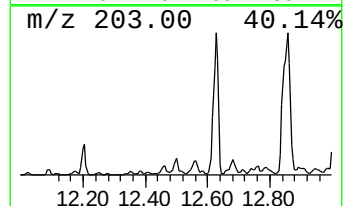
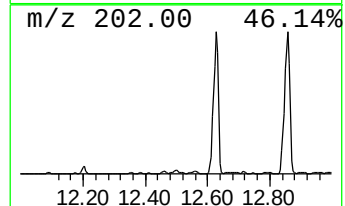
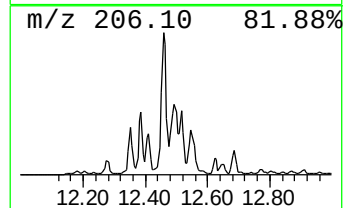
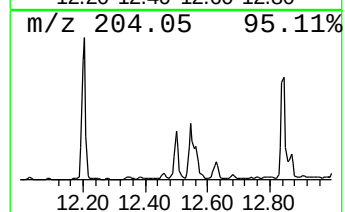
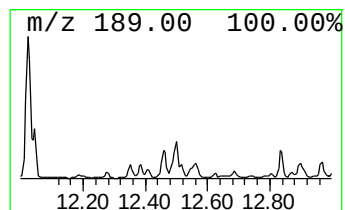
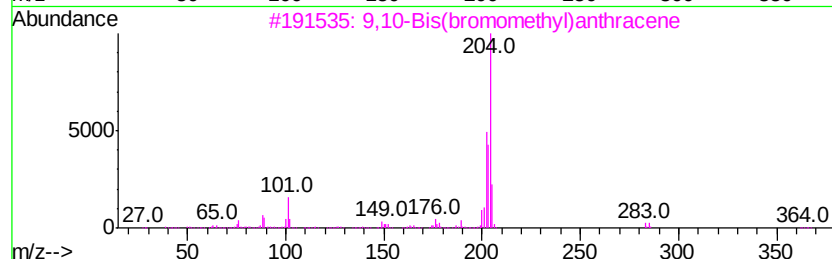
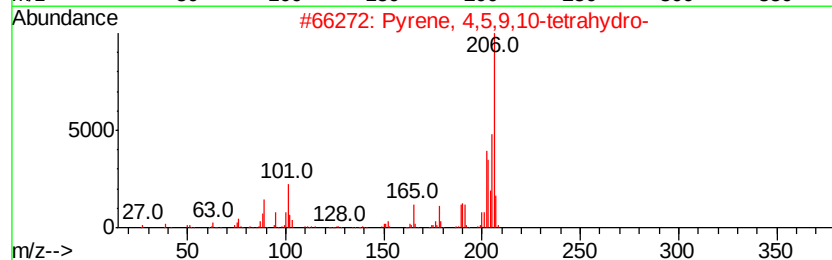
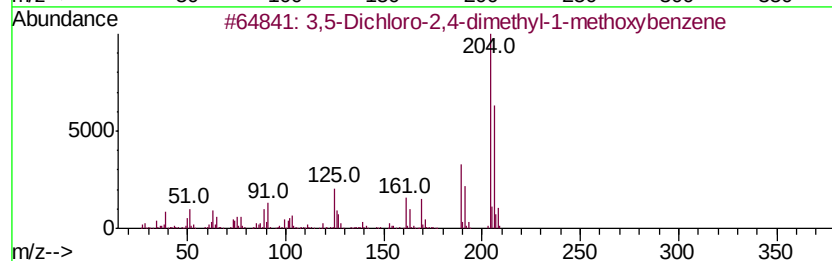
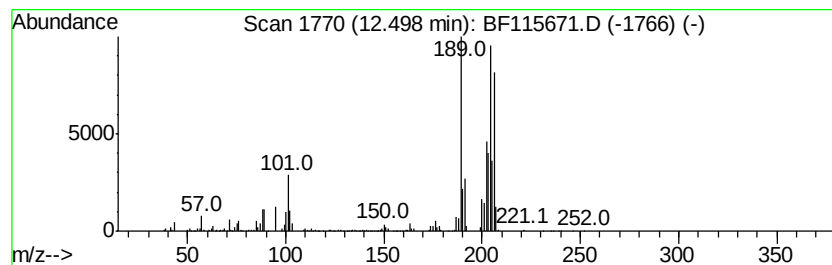
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 18 unknown12.50 Concentration Rank 9

| R.T.  | EstConc  | Area    | Relative to ISTD | R.T.  |
|-------|----------|---------|------------------|-------|
| 12.50 | 13.53 ng | 1039210 | Phenanthrene-d10 | 11.40 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 3,5-Dichloro-2,4-dimethyl-1-meth... | 204 | C9H10Cl2O | 1000250-17-8 | 43   |
| 2    |    | Pyrene, 4,5,9,10-tetrahydro-        | 206 | C16H14    | 000781-17-9  | 42   |
| 3    |    | 9,10-Bis(bromomethyl)anthracene     | 362 | C16H12Br2 | 034373-96-1  | 38   |
| 4    |    | Phenanthrene, 3,6-dimethyl-         | 206 | C16H14    | 001576-67-6  | 38   |
| 5    |    | 6-Phenylbenzocyclohepten-7-one      | 232 | C17H12O   | 093327-56-1  | 35   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071919\  
Data File : BF115671.D  
Acq On : 19 Jul 2019 12:33  
Operator : HP/JU  
Sample : K3903-06  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

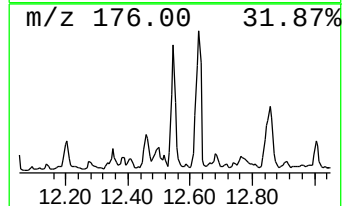
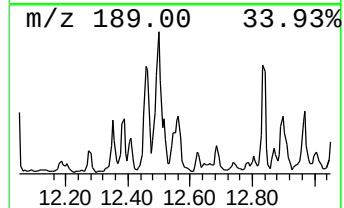
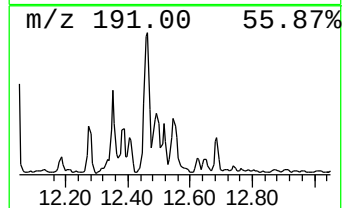
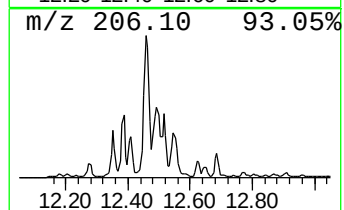
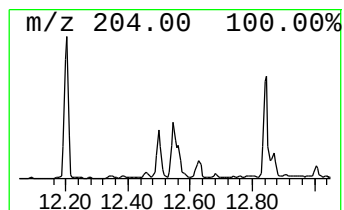
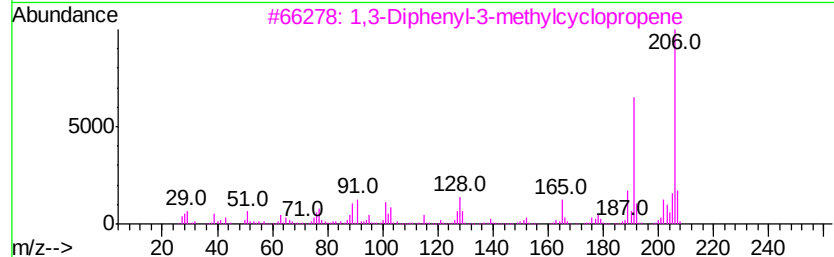
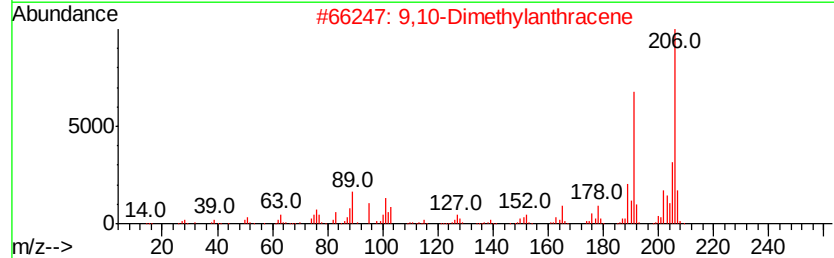
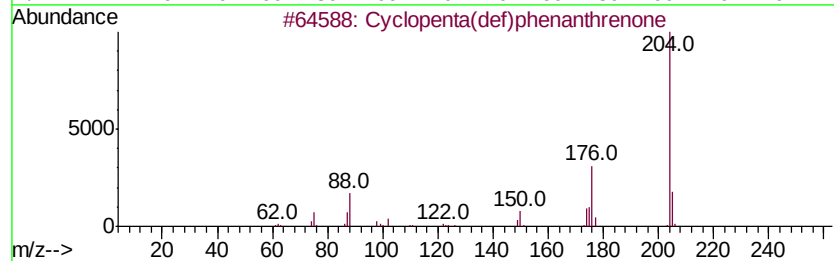
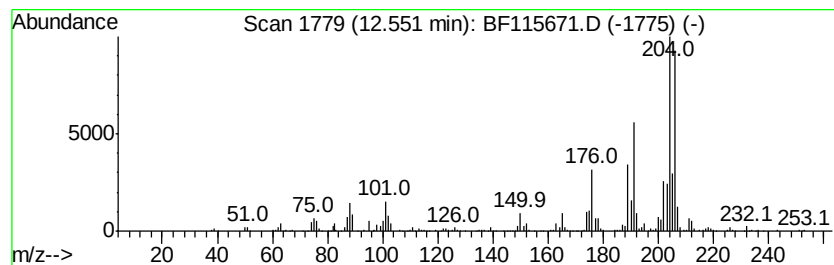
Instrument :  
BNA\_F  
ClientSampleId :  
18107-NYCT-AVE-Z-COMP-3-4

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071219.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 19 Cyclopenta(def)phenanthrenone Concentration Rank 13

| R.T.    | EstConc  | Area                              | Relative to ISTD |         | R.T.        |      |
|---------|----------|-----------------------------------|------------------|---------|-------------|------|
| 12.55   | 10.88 ng | 836211                            | Phenanthrene-d10 |         | 11.40       |      |
| Hit# of | 5        | Tentative ID                      | MW               | MolForm | CAS#        | Qual |
| 1       |          | Cyclopenta(def)phenanthrenone     | 204              | C15H8O  | 005737-13-3 | 94   |
| 2       |          | 9,10-Dimethylantracene            | 206              | C16H14  | 000781-43-1 | 81   |
| 3       |          | 1,3-Diphenyl-3-methylcyclopropene | 206              | C16H14  | 086544-79-8 | 80   |
| 4       |          | 1-Methyl-3-phenyl-1H-indene       | 206              | C16H14  | 022360-62-9 | 42   |
| 5       |          | 3-Methyl-1-phenyl-1H-indene       | 206              | C16H14  | 022360-63-0 | 42   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071919\  
Data File : BF115671.D  
Acq On : 19 Jul 2019 12:33  
Operator : HP/JU  
Sample : K3903-06  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
18107-NYCT-AVE-Z-COMP-3-4

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071219.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

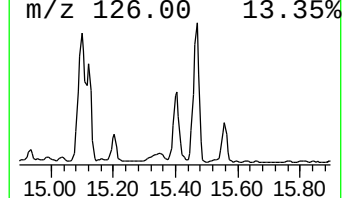
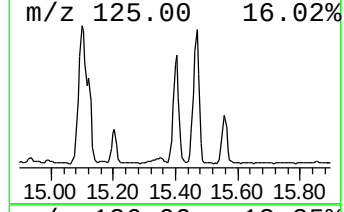
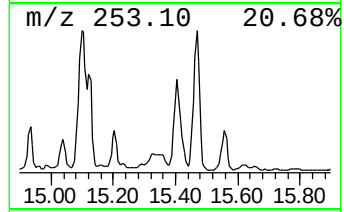
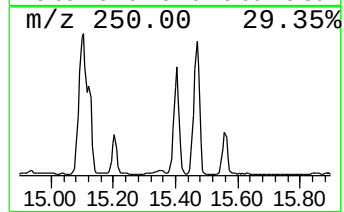
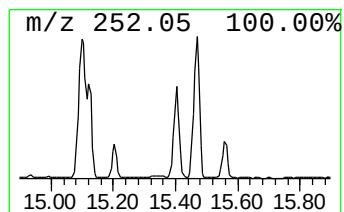
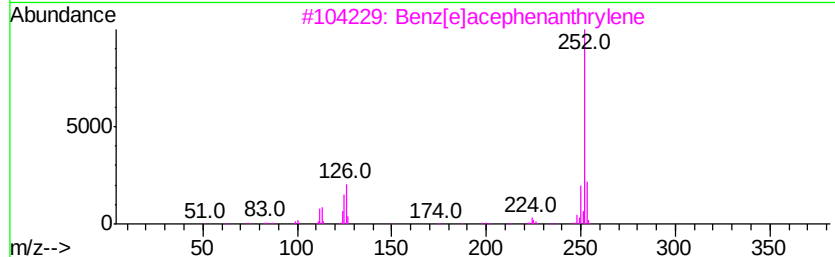
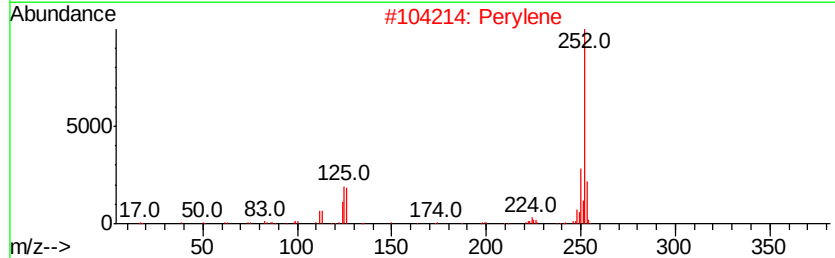
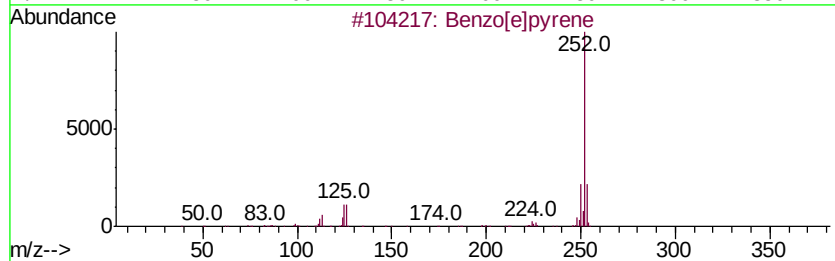
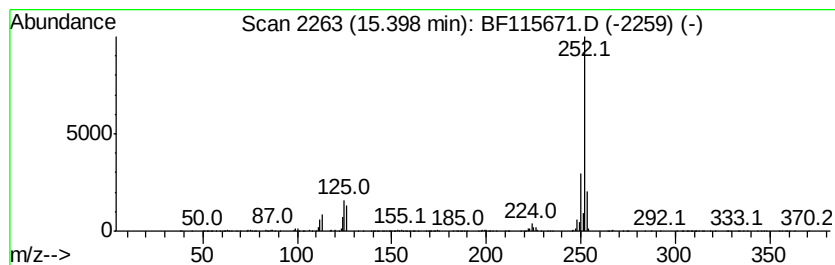
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 20 Benzo[e]pyrene Concentration Rank 5

| R.T.  | EstConc  | Area    | Relative to ISTD | R.T.  |
|-------|----------|---------|------------------|-------|
| 15.40 | 26.86 ng | 1586220 | Perylene-d12     | 15.53 |

| Hit# | of | Tentative ID              | MW  | MolForm | CAS#        | Qual |
|------|----|---------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzo[e]pyrene            | 252 | C20H12  | 000192-97-2 | 98   |
| 2    |    | Perylene                  | 252 | C20H12  | 000198-55-0 | 94   |
| 3    |    | Benzo[e]acephenanthrylene | 252 | C20H12  | 000205-99-2 | 94   |
| 4    |    | Benzo[a]pyrene            | 252 | C20H12  | 000050-32-8 | 93   |
| 5    |    | Benzo[k]fluoranthene      | 252 | C20H12  | 000207-08-9 | 89   |





Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF071919\  
 Data File : BF115671.D  
 Acq On : 19 Jul 2019 12:33  
 Operator : HP/JU  
 Sample : K3903-06  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 18107-NYCT-AVE-Z-COMP-3-4

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF071219.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
|                      |       |         |       |          | #                     | RT    | Resp    | Conc |
| Butane, 2-methoxy... | 2.20  | 11.9    | ng    | 733179   | 1                     | 6.88  | 1232930 | 20.0 |
| unknown6.65          | 6.65  | 53.4    | ng    | 3291430  | 1                     | 6.88  | 1232930 | 20.0 |
| Naphthalene, 1,6-... | 9.50  | 8.7     | ng    | 717768   | 3                     | 9.92  | 1649990 | 20.0 |
| Naphthalene, 2,3-... | 9.57  | 13.4    | ng    | 1105820  | 3                     | 9.92  | 1649990 | 20.0 |
| Naphthalene, 1,5-... | 9.69  | 8.0     | ng    | 660214   | 3                     | 9.92  | 1649990 | 20.0 |
| 9H-Fluorene, 2-me... | 11.02 | 10.9    | ng    | 839449   | 4                     | 11.40 | 1536590 | 20.0 |
| Dibenzothiophene     | 11.30 | 8.6     | ng    | 662342   | 4                     | 11.40 | 1536590 | 20.0 |
| Phenanthrene, 4-m... | 11.91 | 22.9    | ng    | 1759370  | 4                     | 11.40 | 1536590 | 20.0 |
| Phenanthrene, 2-m... | 11.94 | 27.4    | ng    | 2102150  | 4                     | 11.40 | 1536590 | 20.0 |
| Phenanthrene, 1-m... | 11.99 | 9.4     | ng    | 726100   | 4                     | 11.40 | 1536590 | 20.0 |
| 4H-Cyclopenta[def... | 12.02 | 33.1    | ng    | 2543760  | 4                     | 11.40 | 1536590 | 20.0 |
| Anthracene, 2-met... | 12.05 | 14.7    | ng    | 1131670  | 4                     | 11.40 | 1536590 | 20.0 |
| Naphthalene, 2-ph... | 12.20 | 10.6    | ng    | 810918   | 4                     | 11.40 | 1536590 | 20.0 |
| 9,10-Anthracenedione | 12.23 | 7.6     | ng    | 584367   | 4                     | 11.40 | 1536590 | 20.0 |
| Phenanthrene, 4,5... | 12.35 | 8.1     | ng    | 625135   | 4                     | 11.40 | 1536590 | 20.0 |
| Phenanthrene, 2,5... | 12.46 | 18.9    | ng    | 1450970  | 4                     | 11.40 | 1536590 | 20.0 |
| unknown12.50         | 12.50 | 13.5    | ng    | 1039210  | 4                     | 11.40 | 1536590 | 20.0 |
| Cyclopenta(def)ph... | 12.55 | 10.9    | ng    | 836211   | 4                     | 11.40 | 1536590 | 20.0 |
| Benzo[e]pyrene       | 15.40 | 26.9    | ng    | 1586220  | 6                     | 15.53 | 1180940 | 20.0 |