

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF061223\  
 Data File : BF133713.D  
 Acq On : 12 Jun 2023 20:09  
 Operator : CG\JU  
 Sample : 03044-12  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-07-5.0-7.0

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF060923.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF133713.D\data.ms

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 5.034       | 497           | 501         | 508          | rBV      | 19175          | 25875         | 1.21%           | 0.096%        |
| 2         | 5.439       | 566           | 570         | 574          | rBV      | 1365160        | 1294162       | 60.76%          | 4.818%        |
| 3         | 6.457       | 739           | 743         | 746          | rBV      | 1445336        | 1293288       | 60.72%          | 4.815%        |
| 4         | 6.833       | 803           | 807         | 810          | rBV      | 501232         | 431657        | 20.27%          | 1.607%        |
| 5         | 7.392       | 898           | 902         | 905          | rBV      | 1003650        | 816285        | 38.33%          | 3.039%        |
| 6         | 8.116       | 1021          | 1025        | 1027         | rBV      | 614248         | 487457        | 22.89%          | 1.815%        |
| 7         | 8.133       | 1027          | 1028        | 1033         | rVB      | 62481          | 42101         | 1.98%           | 0.157%        |
| 8         | 8.827       | 1143          | 1146        | 1149         | rVB      | 54411          | 40925         | 1.92%           | 0.152%        |
| 9         | 8.927       | 1159          | 1163        | 1166         | rBV      | 66206          | 55083         | 2.59%           | 0.205%        |
| 10        | 9.192       | 1204          | 1208        | 1211         | rBV      | 1545122        | 1320735       | 62.01%          | 4.917%        |
| 11        | 9.457       | 1248          | 1253        | 1257         | rBV      | 30851          | 42081         | 1.98%           | 0.157%        |
| 12        | 9.527       | 1261          | 1265        | 1267         | rBV      | 69168          | 65095         | 3.06%           | 0.242%        |
| 13        | 9.551       | 1267          | 1269        | 1272         | rVB      | 34242          | 30007         | 1.41%           | 0.112%        |
| 14        | 9.645       | 1282          | 1285        | 1290         | rBV      | 37714          | 38672         | 1.82%           | 0.144%        |
| 15        | 9.727       | 1297          | 1299        | 1303         | rVB      | 51550          | 40959         | 1.92%           | 0.152%        |
| 16        | 9.869       | 1320          | 1323        | 1326         | rVB      | 562841         | 450547        | 21.15%          | 1.677%        |
| 17        | 9.904       | 1326          | 1329        | 1332         | rVB      | 134120         | 112792        | 5.30%           | 0.420%        |
| 18        | 9.974       | 1337          | 1341        | 1345         | rBV2     | 15703          | 22186         | 1.04%           | 0.083%        |
| 19        | 10.027      | 1345          | 1350        | 1353         | rBV2     | 20733          | 24347         | 1.14%           | 0.091%        |
| 20        | 10.074      | 1353          | 1358        | 1361         | rBV      | 88067          | 80195         | 3.77%           | 0.299%        |
| 21        | 10.110      | 1361          | 1364        | 1369         | rVB      | 31082          | 29104         | 1.37%           | 0.108%        |
| 22        | 10.186      | 1374          | 1377        | 1380         | rBV      | 32751          | 31210         | 1.47%           | 0.116%        |
| 23        | 10.274      | 1388          | 1392        | 1394         | rBV2     | 26789          | 33067         | 1.55%           | 0.123%        |
| 24        | 10.298      | 1394          | 1396        | 1398         | rVB2     | 30884          | 22995         | 1.08%           | 0.086%        |
| 25        | 10.416      | 1413          | 1416        | 1422         | rVB2     | 116175         | 112573        | 5.29%           | 0.419%        |
| 26        | 10.469      | 1422          | 1425        | 1426         | rBV      | 24021          | 22500         | 1.06%           | 0.084%        |
| 27        | 10.580      | 1441          | 1444        | 1447         | rVB2     | 107958         | 111259        | 5.22%           | 0.414%        |
| 28        | 10.657      | 1453          | 1457        | 1462         | rBV      | 981212         | 825005        | 38.74%          | 3.072%        |
| 29        | 10.704      | 1462          | 1465        | 1469         | rVB3     | 17216          | 22433         | 1.05%           | 0.084%        |
| 30        | 10.786      | 1474          | 1479        | 1482         | rVB3     | 42383          | 56146         | 2.64%           | 0.209%        |
| 31        | 10.969      | 1503          | 1510        | 1512         | rBV3     | 48879          | 73509         | 3.45%           | 0.274%        |
| 32        | 10.992      | 1512          | 1514        | 1517         | rVB2     | 35366          | 29978         | 1.41%           | 0.112%        |
| 33        | 11.092      | 1526          | 1531        | 1533         | rBV3     | 34905          | 44913         | 2.11%           | 0.167%        |
| 34        | 11.116      | 1533          | 1535        | 1539         | rVB2     | 38525          | 34091         | 1.60%           | 0.127%        |
| 35        | 11.163      | 1540          | 1543        | 1547         | rVB      | 92769          | 79719         | 3.74%           | 0.297%        |
| 36        | 11.204      | 1547          | 1550        | 1551         | rBV      | 42348          | 37244         | 1.75%           | 0.139%        |

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 SB-07-5.0-7.0

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF060923.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |         |        |
|----|--------|------|------|------|------|---------|---------|---------|--------|
| 37 | 11.257 | 1556 | 1559 | 1563 | rVB  | 100589  | 92674   | 4.35%   | 0.345% |
| 38 | 11.357 | 1573 | 1576 | 1578 | rBV  | 497224  | 473461  | 22.23%  | 1.763% |
| 39 | 11.386 | 1578 | 1581 | 1584 | rVV  | 1575355 | 1258471 | 59.09%  | 4.686% |
| 40 | 11.433 | 1586 | 1589 | 1592 | rVV  | 378162  | 309450  | 14.53%  | 1.152% |
| 41 | 11.463 | 1592 | 1594 | 1598 | rVV3 | 47900   | 50587   | 2.38%   | 0.188% |
| 42 | 11.586 | 1610 | 1615 | 1618 | rBV2 | 109803  | 128272  | 6.02%   | 0.478% |
| 43 | 11.651 | 1624 | 1626 | 1629 | rVB2 | 52773   | 48365   | 2.27%   | 0.180% |
| 44 | 11.692 | 1629 | 1633 | 1638 | rBV3 | 56548   | 58436   | 2.74%   | 0.218% |
| 45 | 11.774 | 1644 | 1647 | 1650 | rVB  | 26378   | 27568   | 1.29%   | 0.103% |
| 46 | 11.816 | 1651 | 1654 | 1656 | rBV  | 27723   | 22291   | 1.05%   | 0.083% |
| 47 | 11.863 | 1656 | 1662 | 1664 | rBV  | 267592  | 251854  | 11.82%  | 0.938% |
| 48 | 11.886 | 1664 | 1666 | 1671 | rVV  | 432605  | 420348  | 19.74%  | 1.565% |
| 49 | 11.939 | 1671 | 1675 | 1677 | rVV  | 136608  | 119310  | 5.60%   | 0.444% |
| 50 | 11.974 | 1677 | 1681 | 1683 | rVV2 | 350886  | 374728  | 17.59%  | 1.395% |
| 51 | 11.998 | 1683 | 1685 | 1689 | rVB  | 214308  | 167175  | 7.85%   | 0.622% |
| 52 | 12.045 | 1689 | 1693 | 1694 | rBV3 | 28676   | 37433   | 1.76%   | 0.139% |
| 53 | 12.063 | 1694 | 1696 | 1699 | rVB2 | 44319   | 40190   | 1.89%   | 0.150% |
| 54 | 12.157 | 1709 | 1712 | 1714 | rBV  | 189199  | 150821  | 7.08%   | 0.562% |
| 55 | 12.180 | 1714 | 1716 | 1720 | rVB2 | 148633  | 121575  | 5.71%   | 0.453% |
| 56 | 12.233 | 1723 | 1725 | 1729 | rBV  | 32954   | 28369   | 1.33%   | 0.106% |
| 57 | 12.310 | 1735 | 1738 | 1740 | rVB  | 65954   | 54348   | 2.55%   | 0.202% |
| 58 | 12.339 | 1740 | 1743 | 1745 | rBV  | 65941   | 49032   | 2.30%   | 0.183% |
| 59 | 12.363 | 1745 | 1747 | 1749 | rVB  | 62815   | 44515   | 2.09%   | 0.166% |
| 60 | 12.415 | 1752 | 1756 | 1759 | rBV  | 162210  | 197736  | 9.28%   | 0.736% |
| 61 | 12.451 | 1759 | 1762 | 1764 | rVV  | 133706  | 135896  | 6.38%   | 0.506% |
| 62 | 12.498 | 1767 | 1770 | 1775 | rVB  | 152547  | 151607  | 7.12%   | 0.564% |
| 63 | 12.580 | 1779 | 1784 | 1787 | rBV  | 2144271 | 1891185 | 88.79%  | 7.041% |
| 64 | 12.621 | 1789 | 1791 | 1792 | rVV  | 38133   | 26894   | 1.26%   | 0.100% |
| 65 | 12.639 | 1792 | 1794 | 1797 | rVB2 | 57422   | 45769   | 2.15%   | 0.170% |
| 66 | 12.668 | 1797 | 1799 | 1802 | rBV  | 48030   | 39278   | 1.84%   | 0.146% |
| 67 | 12.710 | 1803 | 1806 | 1807 | rBV3 | 41459   | 41440   | 1.95%   | 0.154% |
| 68 | 12.727 | 1807 | 1809 | 1812 | rVB  | 63289   | 54216   | 2.55%   | 0.202% |
| 69 | 12.810 | 1817 | 1823 | 1828 | rBV  | 1954899 | 2129852 | 100.00% | 7.930% |
| 70 | 12.851 | 1828 | 1830 | 1835 | rVB2 | 102510  | 130957  | 6.15%   | 0.488% |
| 71 | 12.921 | 1839 | 1842 | 1844 | rBV  | 114078  | 124107  | 5.83%   | 0.462% |
| 72 | 12.951 | 1844 | 1847 | 1853 | rVB  | 1496269 | 1382522 | 64.91%  | 5.147% |
| 73 | 13.021 | 1854 | 1859 | 1863 | rBV3 | 157057  | 273710  | 12.85%  | 1.019% |
| 74 | 13.080 | 1867 | 1869 | 1871 | rBV2 | 39292   | 37076   | 1.74%   | 0.138% |
| 75 | 13.110 | 1871 | 1874 | 1875 | rBV3 | 119813  | 122709  | 5.76%   | 0.457% |
| 76 | 13.133 | 1876 | 1878 | 1881 | rVB  | 272579  | 232796  | 10.93%  | 0.867% |

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 Sample : 03044-12  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-07-5.0-7.0

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF060923.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 77 | 13.180 | 1881 | 1886 | 1887 | rBV3 | 74417   | 93472   | 4.39%  | 0.348% |
| 78 | 13.198 | 1887 | 1889 | 1892 | rVB  | 120162  | 95163   | 4.47%  | 0.354% |
| 79 | 13.239 | 1892 | 1896 | 1899 | rBV2 | 251408  | 268855  | 12.62% | 1.001% |
| 80 | 13.333 | 1909 | 1912 | 1914 | rBV  | 138105  | 117782  | 5.53%  | 0.439% |
| 81 | 13.362 | 1914 | 1917 | 1921 | rBV2 | 170910  | 201439  | 9.46%  | 0.750% |
| 82 | 13.639 | 1961 | 1964 | 1969 | rBV  | 177602  | 173373  | 8.14%  | 0.646% |
| 83 | 13.757 | 1980 | 1984 | 1986 | rBV2 | 172314  | 227075  | 10.66% | 0.845% |
| 84 | 13.780 | 1986 | 1988 | 1991 | rVV  | 168355  | 179217  | 8.41%  | 0.667% |
| 85 | 13.804 | 1991 | 1992 | 1997 | rVV2 | 107681  | 142560  | 6.69%  | 0.531% |
| 86 | 13.851 | 1997 | 2000 | 2005 | rVB2 | 296317  | 284328  | 13.35% | 1.059% |
| 87 | 14.004 | 2019 | 2026 | 2029 | rBV2 | 1026740 | 1525307 | 71.62% | 5.679% |
| 88 | 14.033 | 2029 | 2031 | 2037 | rVB  | 835706  | 821396  | 38.57% | 3.058% |
| 89 | 14.115 | 2042 | 2045 | 2047 | rBV  | 82376   | 63045   | 2.96%  | 0.235% |
| 90 | 14.392 | 2090 | 2092 | 2096 | rVB  | 170413  | 153771  | 7.22%  | 0.573% |
| 91 | 14.427 | 2096 | 2098 | 2102 | rBV  | 104974  | 80782   | 3.79%  | 0.301% |
| 92 | 14.521 | 2111 | 2114 | 2116 | rBV2 | 88223   | 100320  | 4.71%  | 0.374% |
| 93 | 15.051 | 2199 | 2204 | 2207 | rBV  | 472354  | 738161  | 34.66% | 2.748% |
| 94 | 15.151 | 2219 | 2221 | 2224 | rVB  | 99143   | 88960   | 4.18%  | 0.331% |
| 95 | 15.351 | 2251 | 2255 | 2260 | rVB  | 296546  | 381253  | 17.90% | 1.419% |
| 96 | 15.409 | 2261 | 2265 | 2271 | rVB  | 462725  | 586199  | 27.52% | 2.183% |
| 97 | 15.474 | 2272 | 2276 | 2279 | rBV  | 212306  | 279946  | 13.14% | 1.042% |
| 98 | 16.939 | 2520 | 2525 | 2532 | rVB2 | 186910  | 379483  | 17.82% | 1.413% |
| 99 | 17.380 | 2596 | 2600 | 2608 | rVB  | 136221  | 249455  | 11.71% | 0.929% |

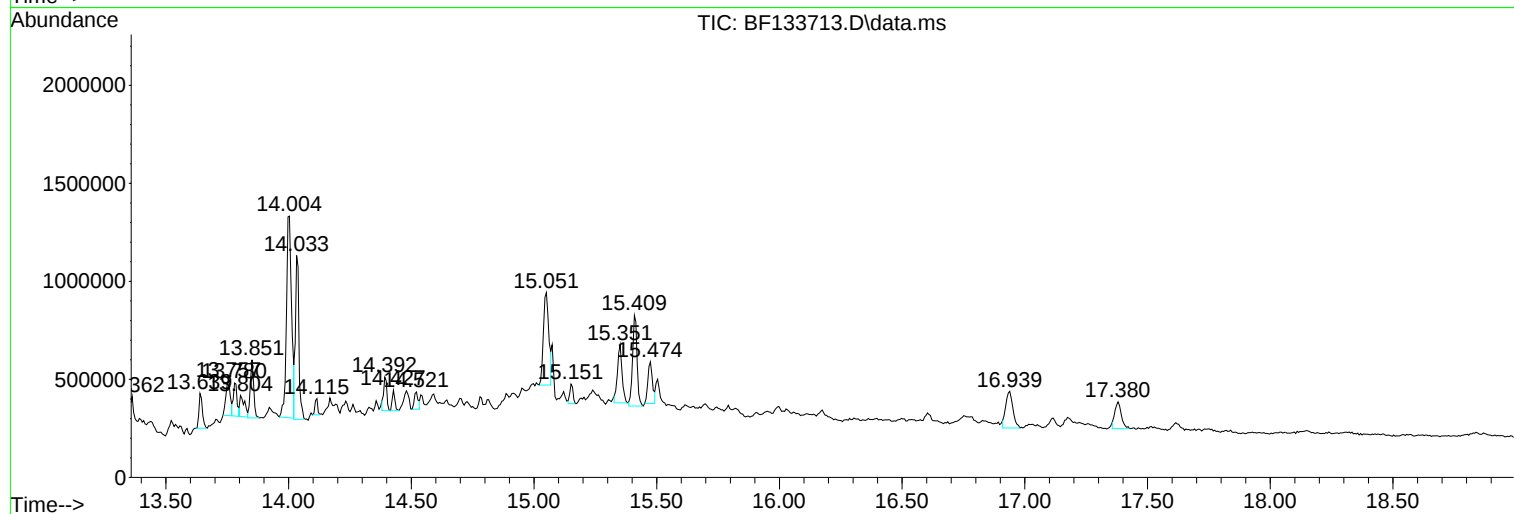
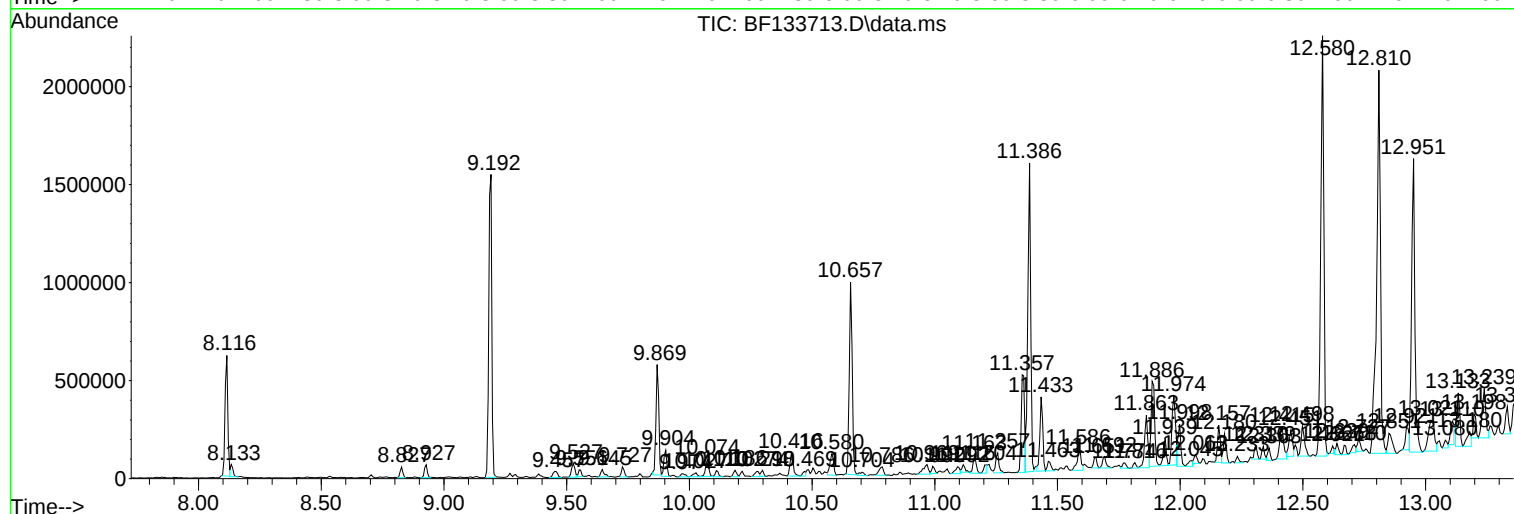
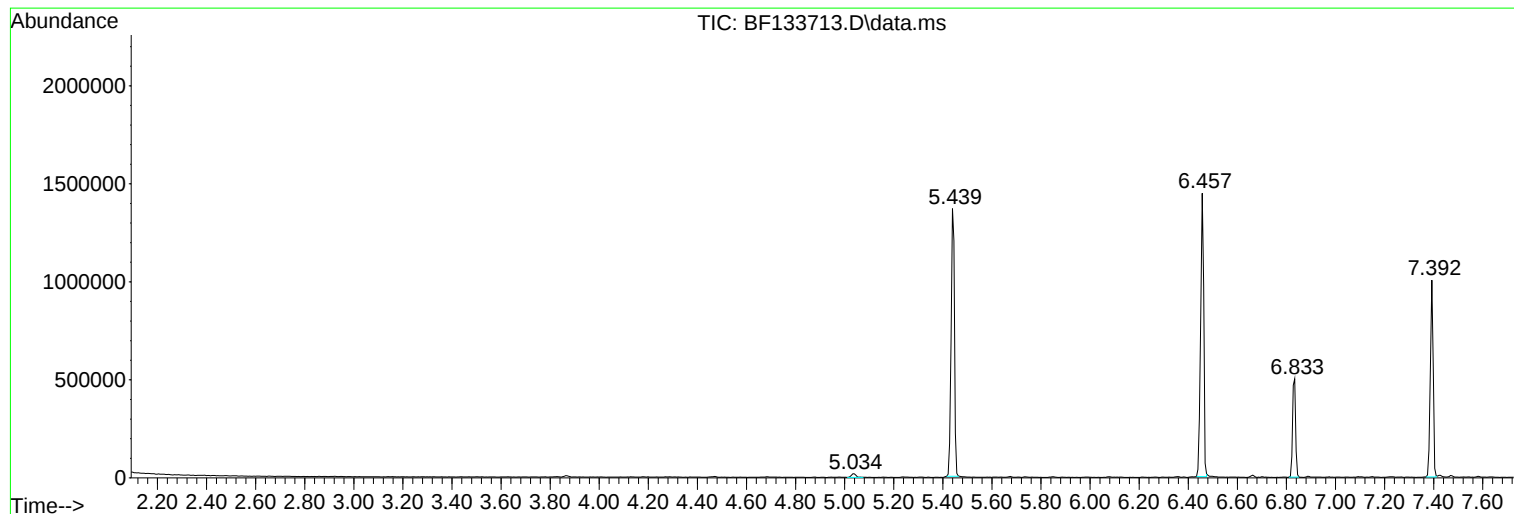
Sum of corrected areas: 26858560

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Instrument :  
BNA\_F  
ClientSampleId :  
SB-07-5.0-7.0

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF060923.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF061223\  
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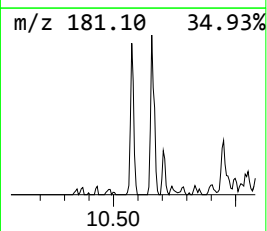
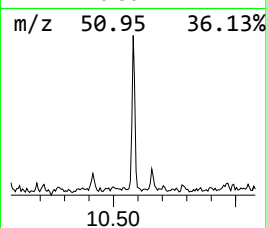
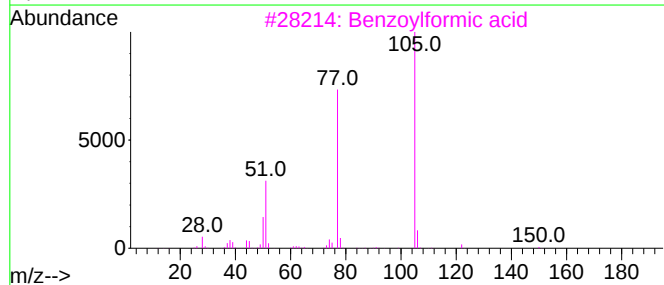
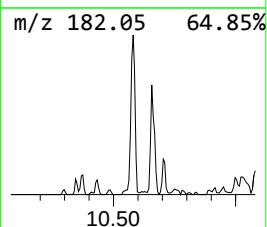
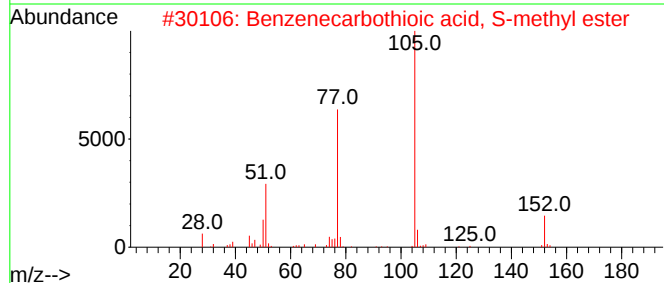
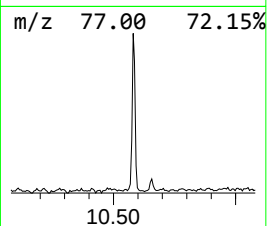
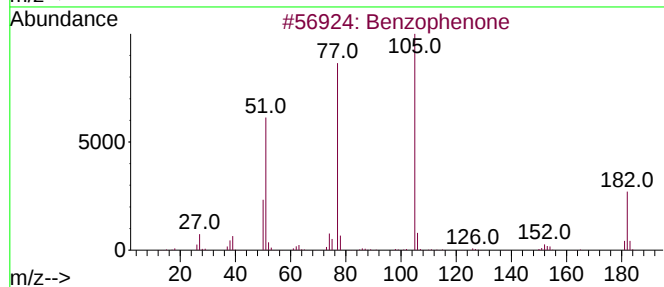
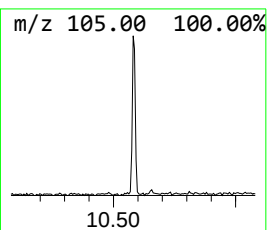
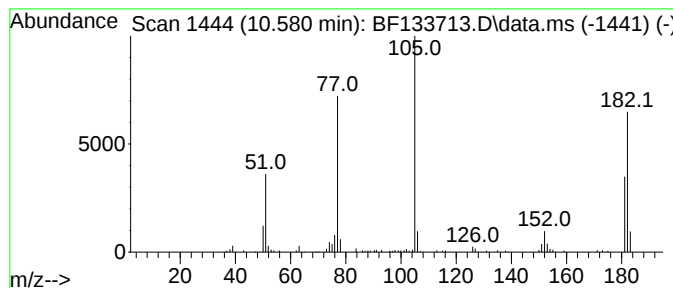
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF060923.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 Benzophenone Concentration Rank 13

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.  |
|--------|---------|--------|------------------|-------|
| 10.580 | 4.94 ng | 111259 | Acenaphthene-d10 | 9.869 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Benzophenone                        | 182 | C13H10O | 000119-61-9 | 87   |
| 2    |    |   | Benzenecarbothioic acid, S-methy... | 152 | C8H8OS  | 005925-68-8 | 49   |
| 3    |    |   | Benzoylformic acid                  | 150 | C8H6O3  | 000611-73-4 | 43   |
| 4    |    |   | 4,4'-Dimethylbiphenyl               | 182 | C14H14  | 000613-33-2 | 43   |
| 5    |    |   | N-cyanobenzamide                    | 146 | C8H6N2O | 015150-25-1 | 43   |



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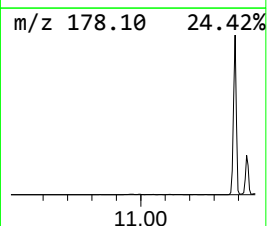
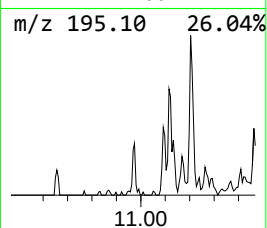
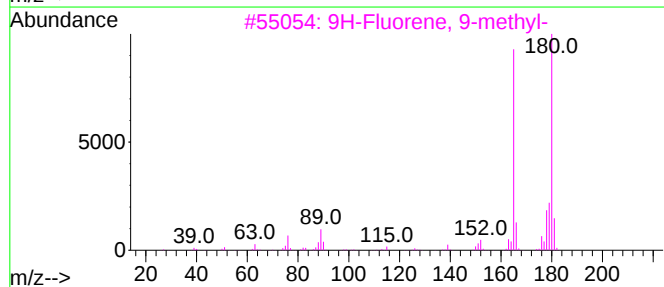
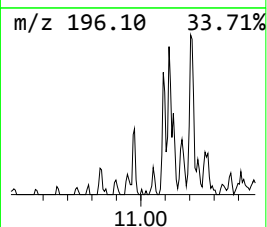
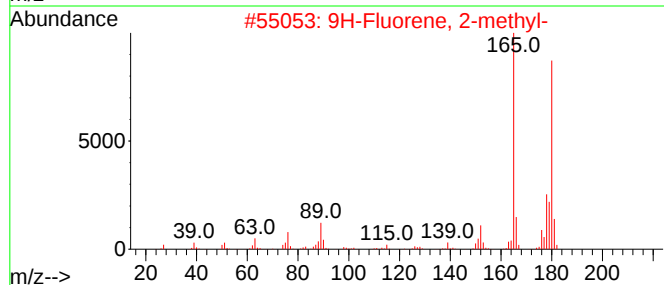
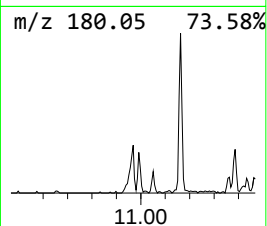
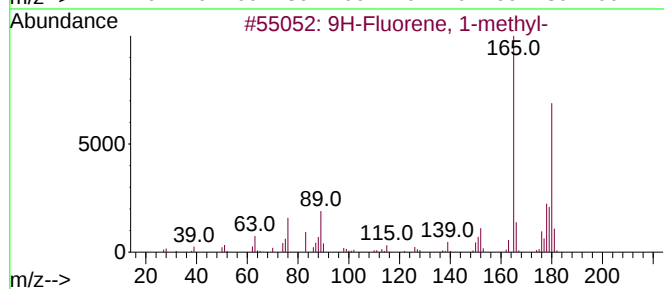
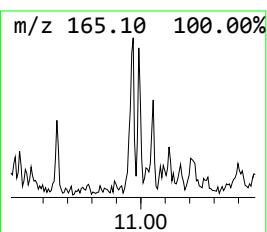
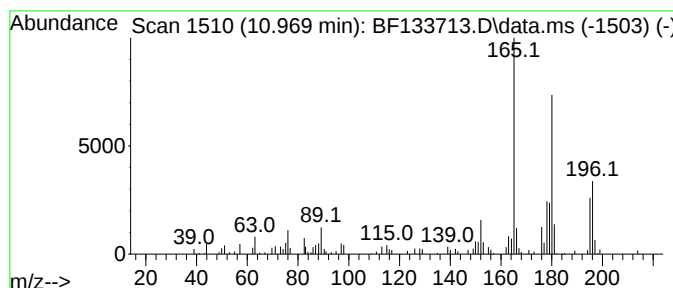
Instrument :  
BNA\_F  
ClientSampleId :  
SB-07-5.0-7.0

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF060923.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 2 9H-Fluorene, 1-methyl- Concentration Rank 19

| R.T.      | EstConc                         | Area  | Relative to ISTD | R.T.        |      |
|-----------|---------------------------------|-------|------------------|-------------|------|
| 10.969    | 3.11 ng                         | 73509 | Phenanthrene-d10 | 11.363      |      |
| Hit# of 5 | Tentative ID                    | MW    | MolForm          | CAS#        | Qual |
| 1         | 9H-Fluorene, 1-methyl-          | 180   | C14H12           | 001730-37-6 | 96   |
| 2         | 9H-Fluorene, 2-methyl-          | 180   | C14H12           | 001430-97-3 | 70   |
| 3         | 9H-Fluorene, 9-methyl-          | 180   | C14H12           | 002523-37-7 | 70   |
| 4         | 9H-Fluorene, 3-methyl-          | 180   | C14H12           | 002523-39-9 | 58   |
| 5         | 2-Benzothiazolamine, 6-methoxy- | 180   | C8H8N2OS         | 001747-60-0 | 52   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF061223\  
Data File : BF133713.D  
Acq On : 12 Jun 2023 20:09  
Operator : CG\JU  
Sample : 03044-12  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-07-5.0-7.0

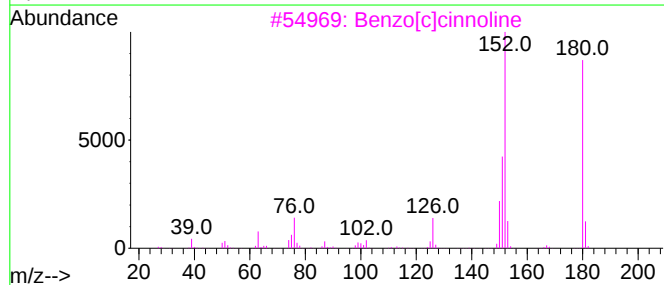
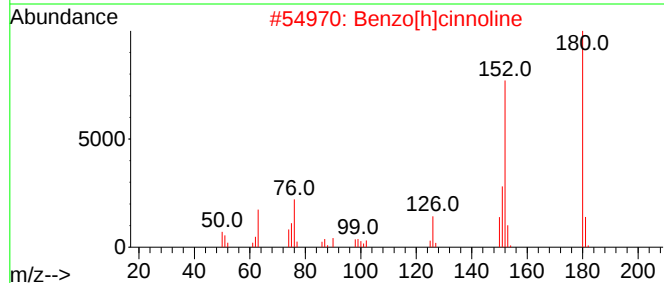
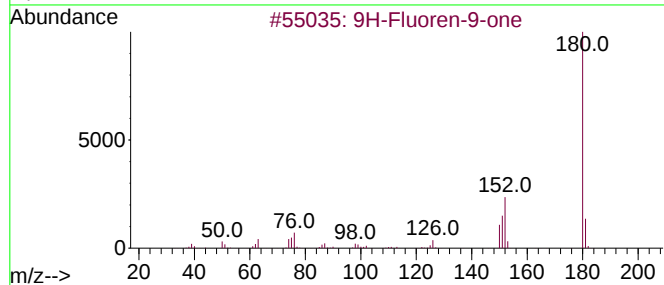
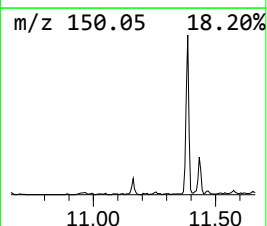
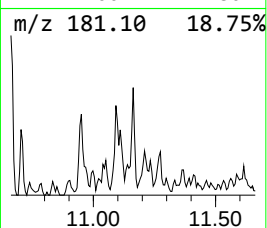
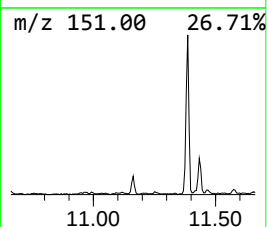
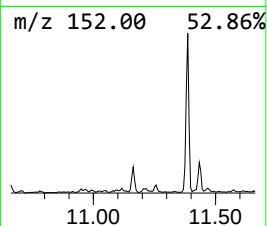
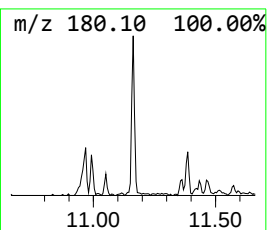
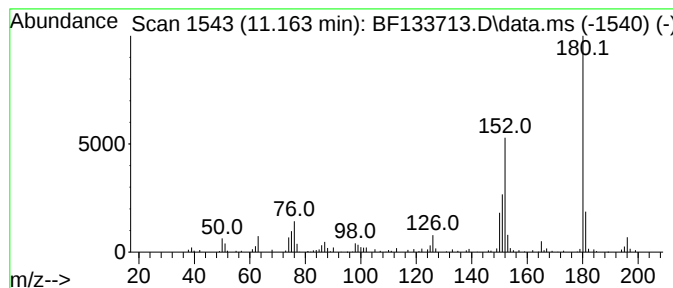
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 3 9H-Fluoren-9-one Concentration Rank 18

| R.T.   | EstConc | Area  | Relative to ISTD | R.T.   |
|--------|---------|-------|------------------|--------|
| 11.163 | 3.37 ng | 79719 | Phenanthrene-d10 | 11.363 |

| Hit# | of | 5 | Tentative ID              | MW  | MolForm | CAS#        | Qual |
|------|----|---|---------------------------|-----|---------|-------------|------|
| 1    |    |   | 9H-Fluoren-9-one          | 180 | C13H8O  | 000486-25-9 | 95   |
| 2    |    |   | Benzo[h]cinnoline         | 180 | C12H8N2 | 000230-31-9 | 90   |
| 3    |    |   | Benzo[c]cinnoline         | 180 | C12H8N2 | 000230-17-1 | 90   |
| 4    |    |   | 4-Acetyl-1-naphthonitrile | 195 | C13H9NO | 029139-00-2 | 64   |
| 5    |    |   | 1H-Phenalen-1-one         | 180 | C13H8O  | 000548-39-0 | 52   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF061223\  
Data File : BF133713.D  
Acq On : 12 Jun 2023 20:09  
Operator : CG\JU  
Sample : 03044-12  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-07-5.0-7.0

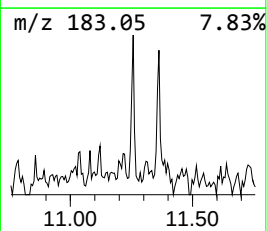
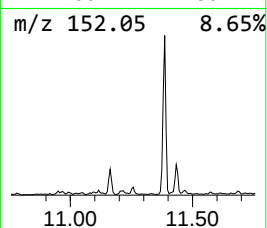
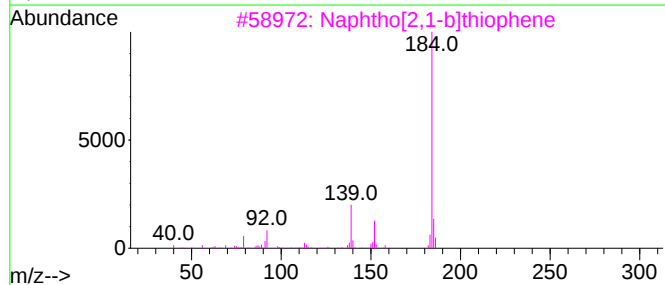
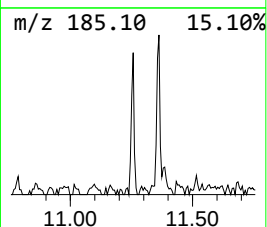
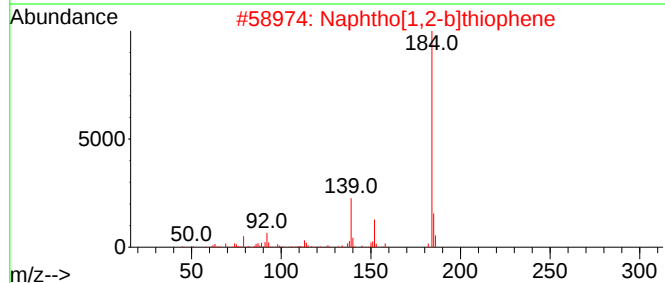
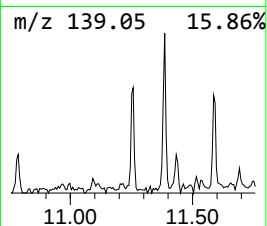
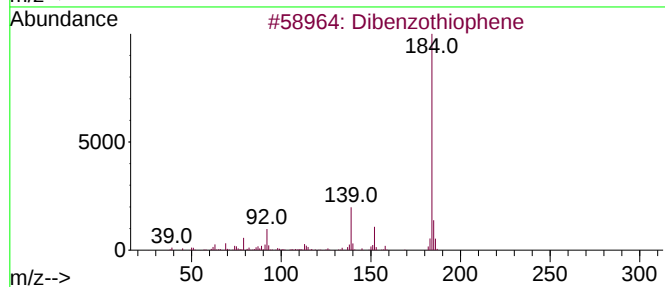
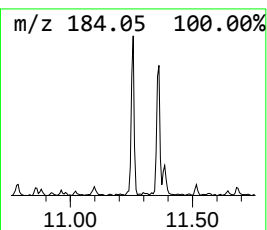
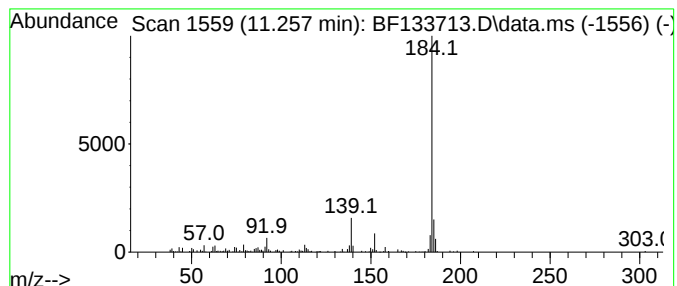
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 4 Dibenzothiophene Concentration Rank 14

| R.T.   | EstConc | Area  | Relative to ISTD | R.T.   |
|--------|---------|-------|------------------|--------|
| 11.257 | 3.91 ng | 92674 | Phenanthrene-d10 | 11.363 |

| Hit# | of | 5 | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------|-----|---------|-------------|------|
| 1    |    |   | Dibenzothiophene        | 184 | C12H8S  | 000132-65-0 | 96   |
| 2    |    |   | Naphtho[1,2-b]thiophene | 184 | C12H8S  | 000234-41-3 | 95   |
| 3    |    |   | Naphtho[2,1-b]thiophene | 184 | C12H8S  | 000233-02-3 | 94   |
| 4    |    |   | Naphtho[2,3-b]thiophene | 184 | C12H8S  | 000268-77-9 | 93   |
| 5    |    |   | Azuleno(2,1-b)thiophene | 184 | C12H8S  | 000248-13-5 | 91   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF061223\  
Data File : BF133713.D  
Acq On : 12 Jun 2023 20:09  
Operator : CG\JU  
Sample : 03044-12  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-07-5.0-7.0

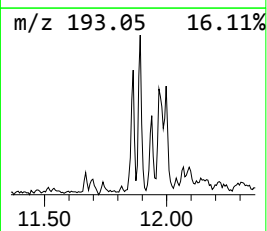
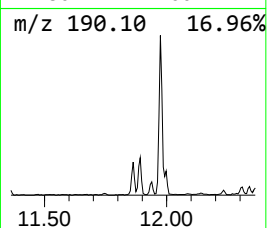
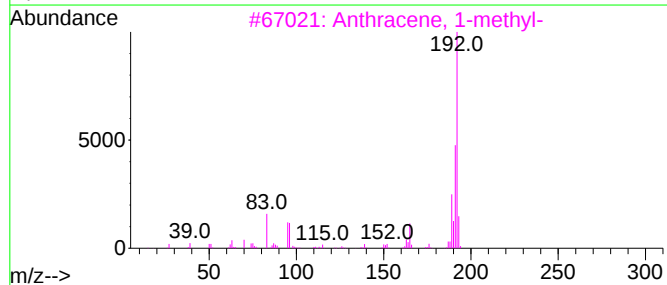
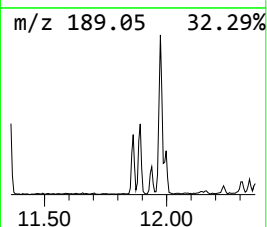
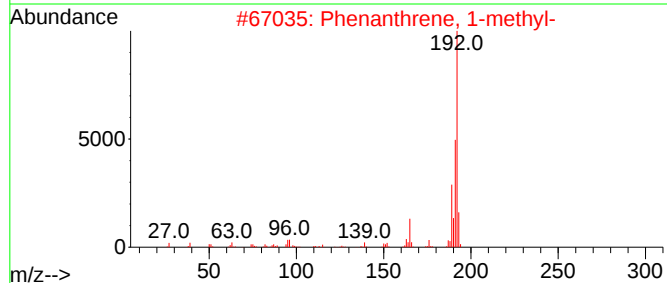
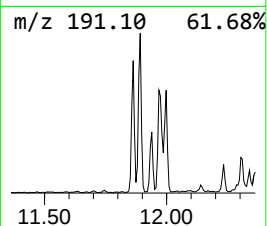
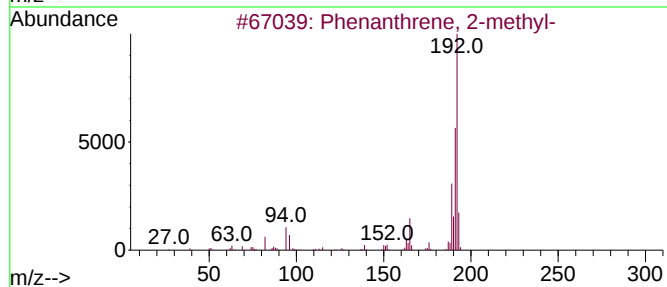
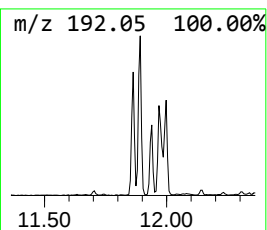
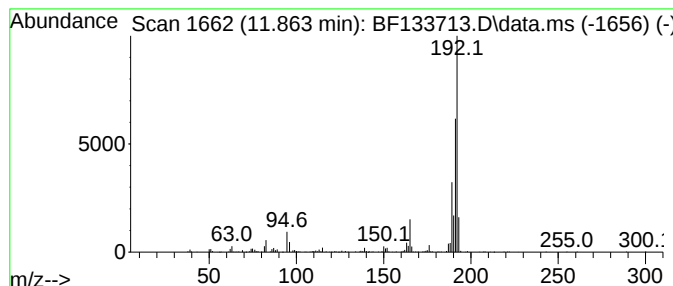
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 5 Phenanthrene, 2-methyl- Concentration Rank 4

| R.T.   | EstConc  | Area   | Relative to ISTD | R.T.   |
|--------|----------|--------|------------------|--------|
| 11.863 | 10.64 ng | 251854 | Phenanthrene-d10 | 11.363 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Phenanthrene, 2-methyl-             | 192 | C15H12  | 002531-84-2 | 93   |
| 2    |    |   | Phenanthrene, 1-methyl-             | 192 | C15H12  | 000832-69-9 | 93   |
| 3    |    |   | Anthracene, 1-methyl-               | 192 | C15H12  | 000610-48-0 | 91   |
| 4    |    |   | 1H-Cyclopropa[1]phenanthrene,1a,... | 192 | C15H12  | 000949-41-7 | 91   |
| 5    |    |   | Anthracene, 2-methyl-               | 192 | C15H12  | 000613-12-7 | 91   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF061223\  
Data File : BF133713.D  
Acq On : 12 Jun 2023 20:09  
Operator : CG\JU  
Sample : 03044-12  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-07-5.0-7.0

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

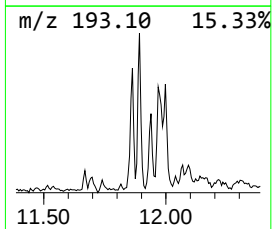
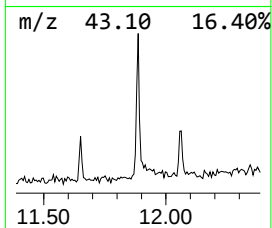
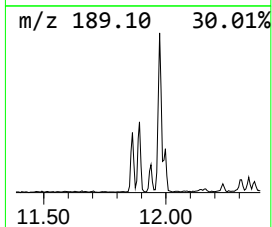
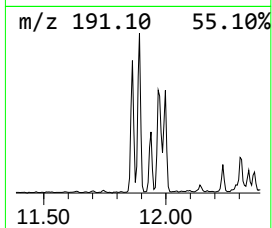
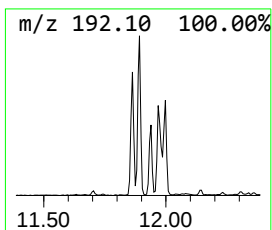
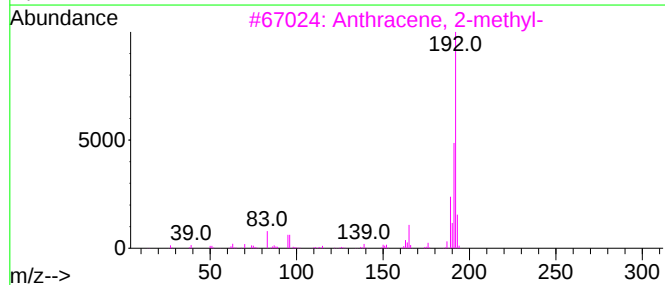
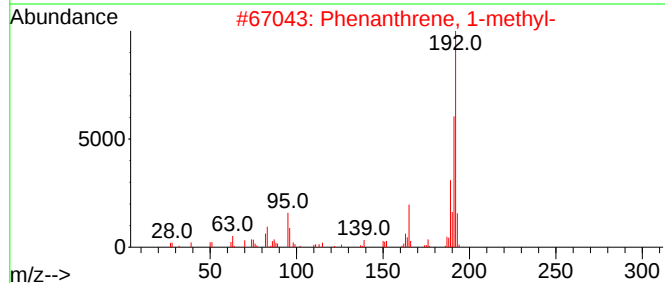
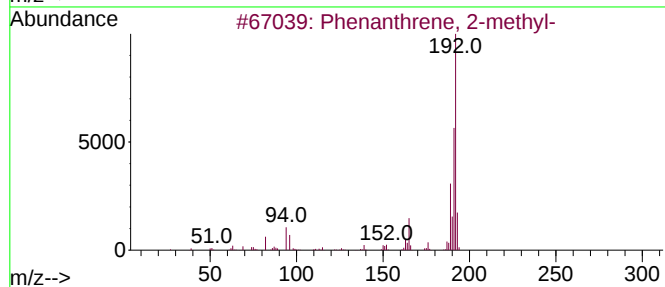
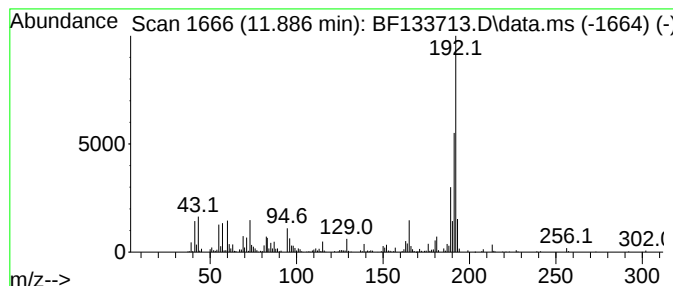
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TIC Integration Parameters: LSCINT.P

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Peak Number 6 Phenanthrene, 1-methyl- Concentration Rank 2

| R.T.   | EstConc  | Area   | Relative to ISTD | R.T.   |
|--------|----------|--------|------------------|--------|
| 11.886 | 17.76 ng | 420348 | Phenanthrene-d10 | 11.363 |

| 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-Cyclopropa[1]phenanthrene,1a,... | 192 | C15H12  | 000949-41-7 | 96   |
| 5    |      | Anthracene, 9-methyl-               | 192 | C15H12  | 000779-02-2 | 95   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF061223\  
Data File : BF133713.D  
Acq On : 12 Jun 2023 20:09  
Operator : CG\JU  
Sample : 03044-12  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-07-5.0-7.0

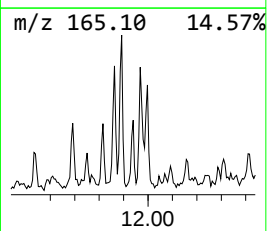
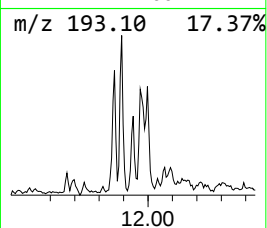
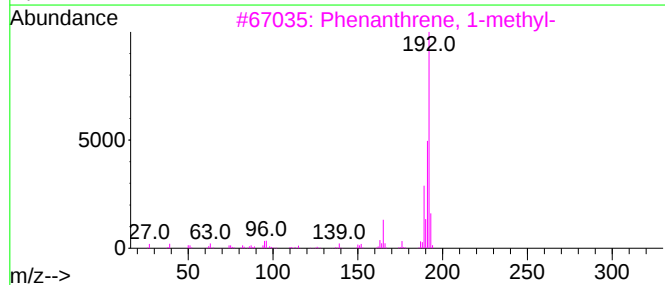
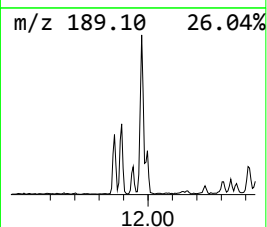
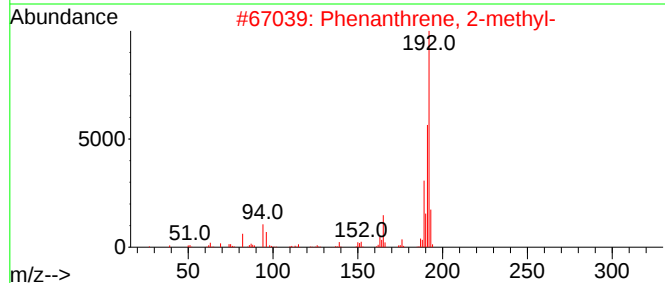
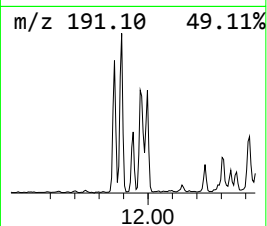
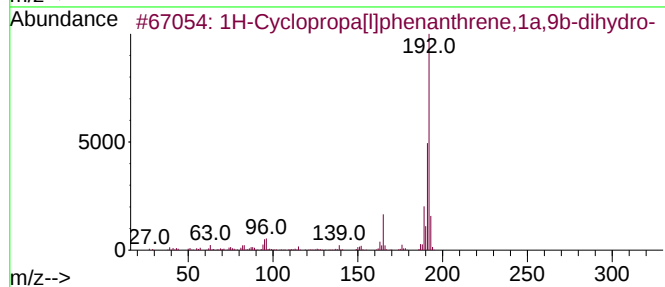
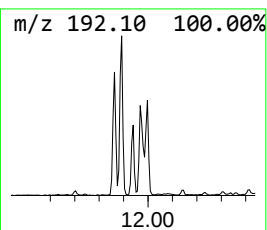
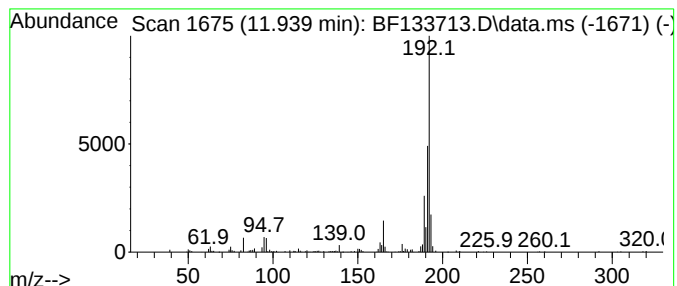
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 1H-Cyclopropa[l]phenanthren... Concentration Rank 12

| R.T.      | EstConc                             | Area   | Relative to ISTD |         | R.T.        |      |
|-----------|-------------------------------------|--------|------------------|---------|-------------|------|
| 11.939    | 5.04 ng                             | 119310 | Phenanthrene-d10 |         | 11.363      |      |
| Hit# of 5 | Tentative ID                        |        | MW               | MolForm | CAS#        | Qual |
| 1         | 1H-Cyclopropa[1]phenanthrene,1a,... |        | 192              | C15H12  | 000949-41-7 | 97   |
| 2         | Phenanthrene, 2-methyl-             |        | 192              | C15H12  | 002531-84-2 | 96   |
| 3         | Phenanthrene, 1-methyl-             |        | 192              | C15H12  | 000832-69-9 | 95   |
| 4         | 1H-Indene, 2-phenyl-                |        | 192              | C15H12  | 004505-48-0 | 94   |
| 5         | Anthracene, 2-methyl-               |        | 192              | C15H12  | 000613-12-7 | 93   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF061223\  
Data File : BF133713.D  
Acq On : 12 Jun 2023 20:09  
Operator : CG\JU  
Sample : 03044-12  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-07-5.0-7.0

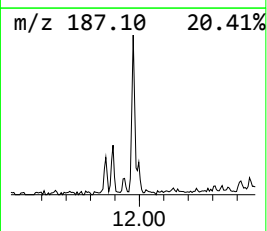
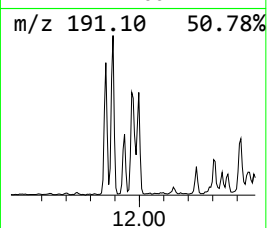
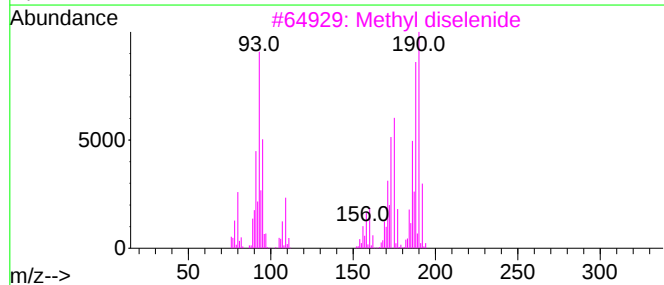
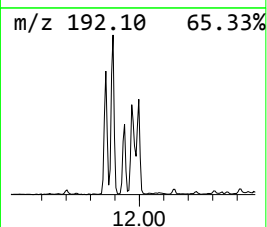
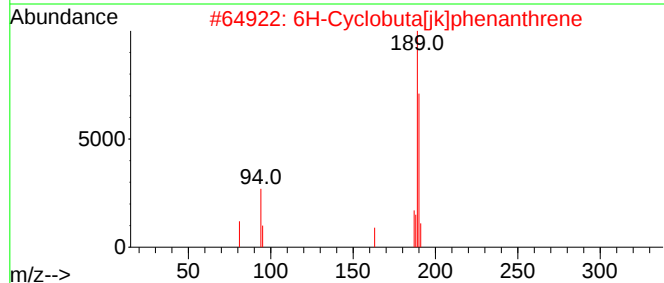
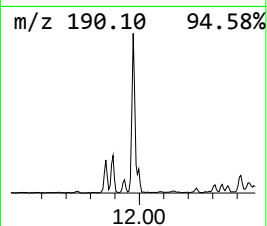
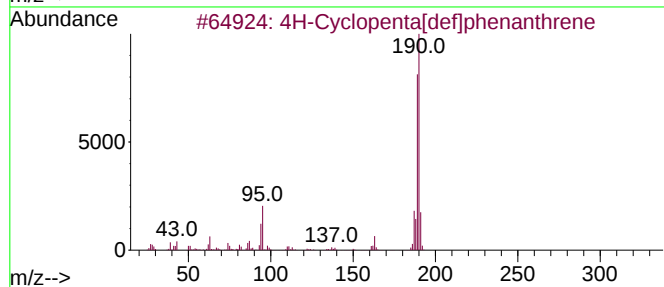
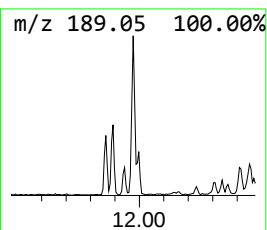
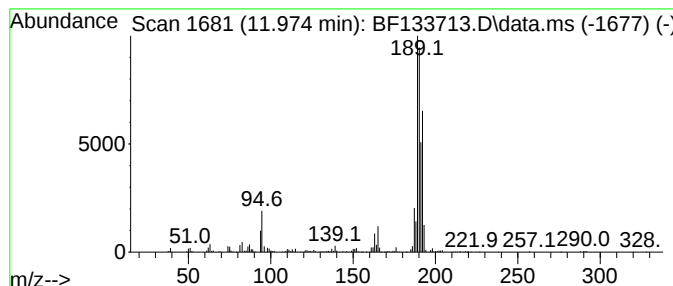
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 8 4H-Cyclopenta[def]phenanthrene Concentration Rank 3

| R.T.      | EstConc                        | Area   | Relative to ISTD |         |             | R.T.   |
|-----------|--------------------------------|--------|------------------|---------|-------------|--------|
| 11.974    | 15.83 ng                       | 374728 | Phenanthrene-d10 |         |             | 11.363 |
| Hit# of 5 | Tentative ID                   |        | MW               | MolForm | CAS#        | Qual   |
| 1         | 4H-Cyclopenta[def]phenanthrene |        | 190              | C15H10  | 000203-64-5 | 60     |
| 2         | 6H-Cyclobuta[jk]phenanthrene   |        | 190              | C15H10  | 083469-43-6 | 58     |
| 3         | Methyl diselenide              |        | 190              | C2H6Se2 | 007101-31-7 | 41     |
| 4         | 1H-Indene, 2-phenyl-           |        | 192              | C15H12  | 004505-48-0 | 38     |
| 5         | Phenanthrene, 2-methyl-        |        | 192              | C15H12  | 002531-84-2 | 38     |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF061223\  
Data File : BF133713.D  
Acq On : 12 Jun 2023 20:09  
Operator : CG\JU  
Sample : 03044-12  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-07-5.0-7.0

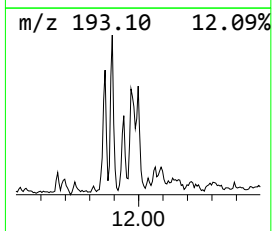
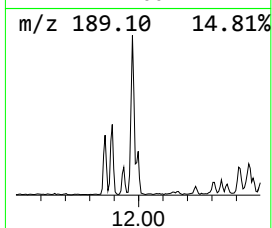
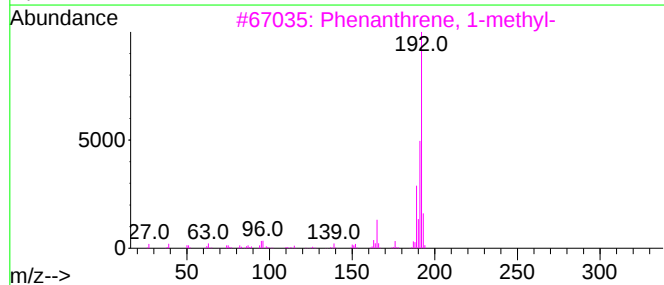
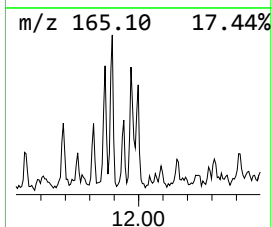
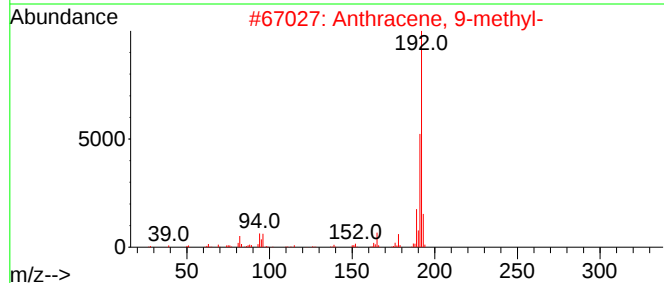
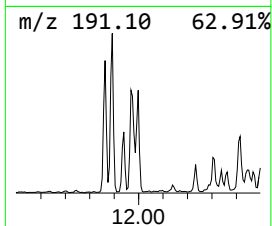
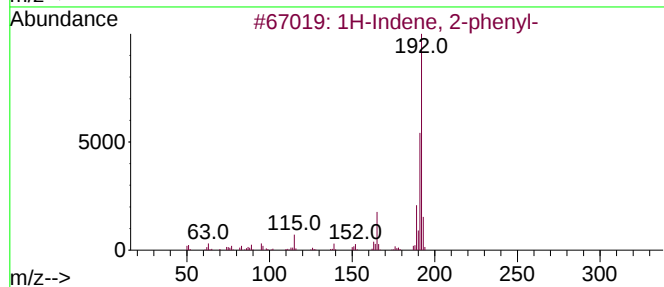
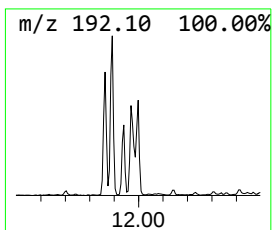
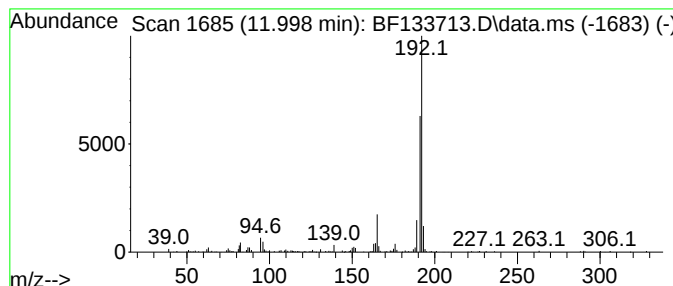
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 9 1H-Indene, 2-phenyl- Concentration Rank 6

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 11.998 | 7.06 ng | 167175 | Phenanthrene-d10 | 11.363 |

| Hit# | of 5 | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|------|------|-------------------------|-----|---------|-------------|------|
| 1    |      | 1H-Indene, 2-phenyl-    | 192 | C15H12  | 004505-48-0 | 93   |
| 2    |      | Anthracene, 9-methyl-   | 192 | C15H12  | 000779-02-2 | 91   |
| 3    |      | Phenanthrene, 1-methyl- | 192 | C15H12  | 000832-69-9 | 91   |
| 4    |      | Propyne, 1,3-diphenyl-  | 192 | C15H12  | 004980-70-5 | 87   |
| 5    |      | Phenanthrene, 4-methyl- | 192 | C15H12  | 000832-64-4 | 87   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF061223\  
Data File : BF133713.D  
Acq On : 12 Jun 2023 20:09  
Operator : CG\JU  
Sample : 03044-12  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-07-5.0-7.0

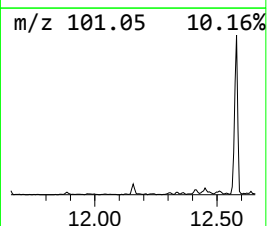
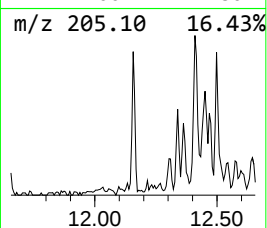
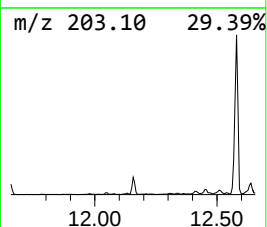
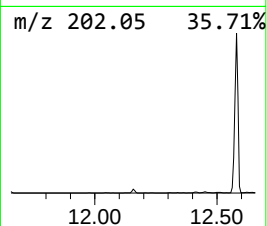
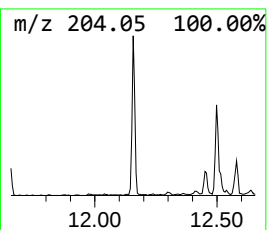
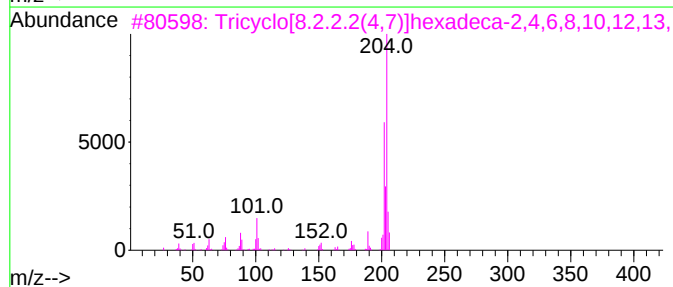
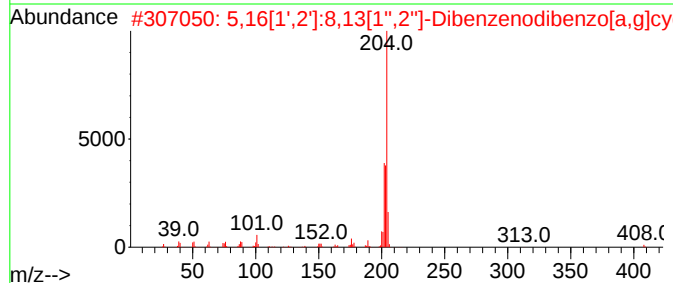
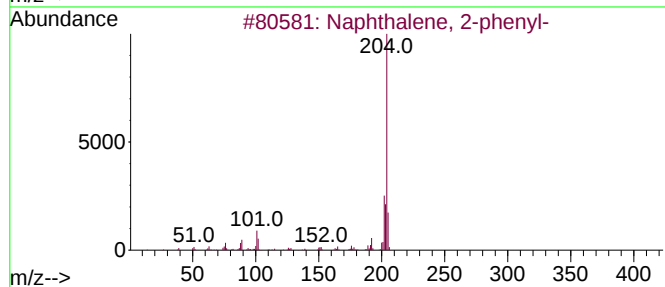
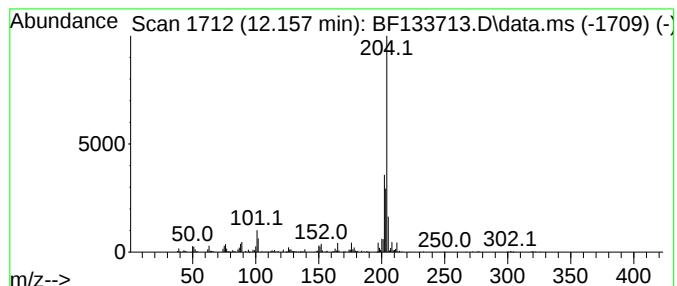
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 10 Naphthalene, 2-phenyl- Concentration Rank 8

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 12.157 | 6.37 ng | 150821 | Phenanthrene-d10 | 11.363 |

| Hit# | of 5 | Tentative ID                        | MW  | MolForm   | CAS#        | Qual |
|------|------|-------------------------------------|-----|-----------|-------------|------|
| 1    |      | Naphthalene, 2-phenyl-              | 204 | C16H12    | 000612-94-2 | 90   |
| 2    |      | 5,16[1',2']:8,13[1'',2'']-Dibenz... | 408 | C32H24    | 005672-97-9 | 86   |
| 3    |      | Tricyclo[8.2.2.2(4,7)]hexadeca-2... | 204 | C16H12    | 006572-60-7 | 74   |
| 4    |      | 9,10-Bis(bromomethyl)anthracene     | 362 | C16H12Br2 | 034373-96-1 | 58   |
| 5    |      | Benzene, 1,1'-(1-buten-3-yne-1,4... | 204 | C16H12    | 013141-45-2 | 53   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF061223\  
Data File : BF133713.D  
Acq On : 12 Jun 2023 20:09  
Operator : CG\JU  
Sample : 03044-12  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
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ClientSampleId :  
SB-07-5.0-7.0

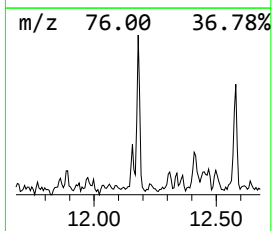
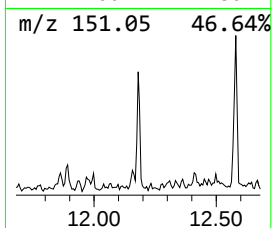
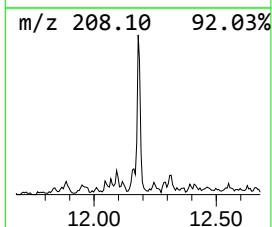
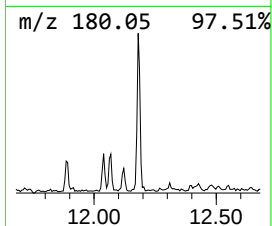
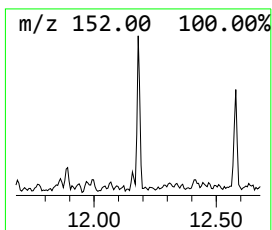
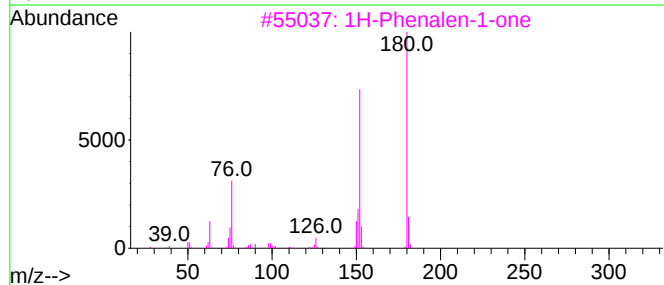
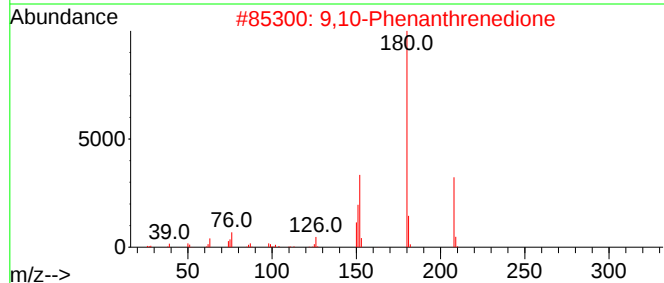
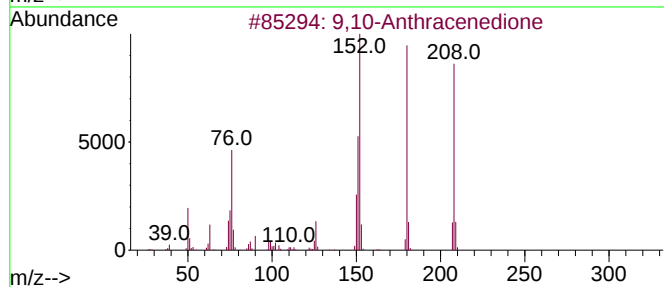
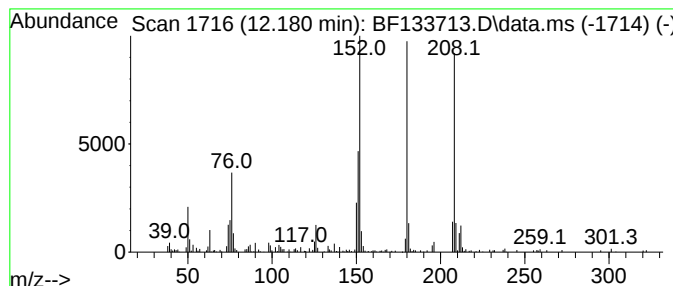
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 11 9,10-Anthracenedione Concentration Rank 11

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 12.180 | 5.14 ng | 121575 | Phenanthrene-d10 | 11.363 |

| Hit# | of | 5 | Tentative ID           | MW  | MolForm | CAS#        | Qual |
|------|----|---|------------------------|-----|---------|-------------|------|
| 1    |    |   | 9,10-Anthracenedione   | 208 | C14H8O2 | 000084-65-1 | 95   |
| 2    |    |   | 9,10-Phenanthrenedione | 208 | C14H8O2 | 000084-11-7 | 87   |
| 3    |    |   | 1H-Phenalen-1-one      | 180 | C13H8O  | 000548-39-0 | 60   |
| 4    |    |   | Benzo[c]cinnoline      | 180 | C12H8N2 | 000230-17-1 | 58   |
| 5    |    |   | 1,4-Anthracenedione    | 208 | C14H8O2 | 000635-12-1 | 53   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF061223\  
Data File : BF133713.D  
Acq On : 12 Jun 2023 20:09  
Operator : CG\JU  
Sample : 03044-12  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

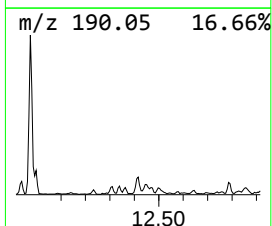
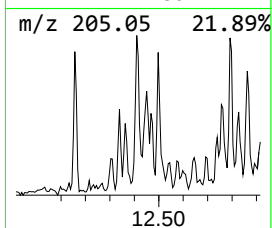
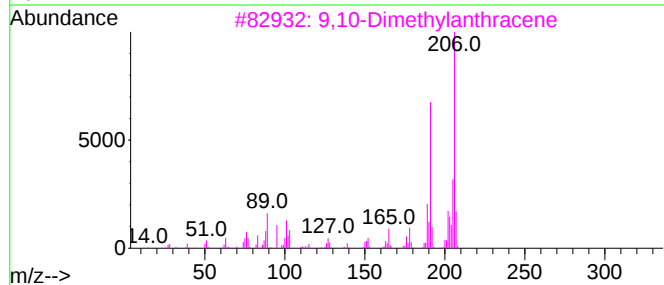
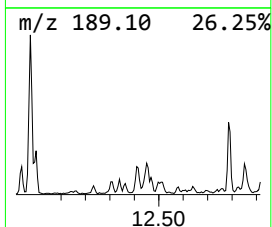
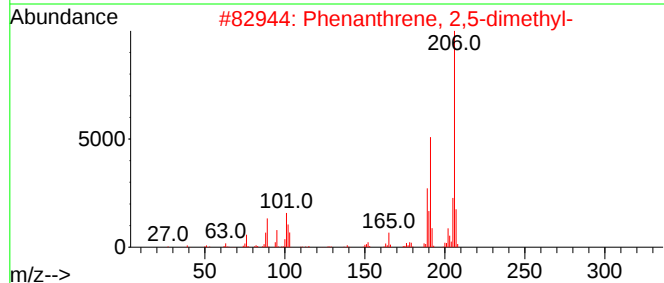
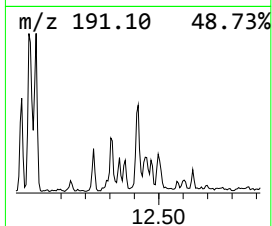
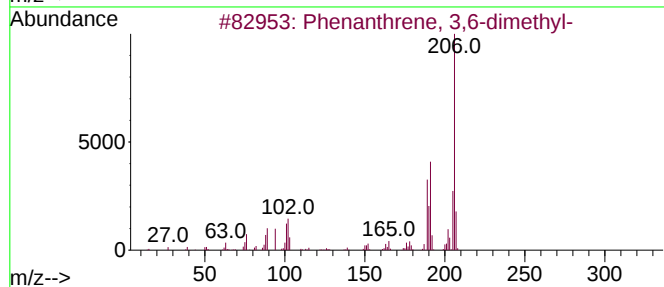
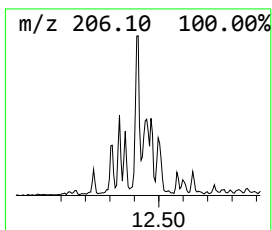
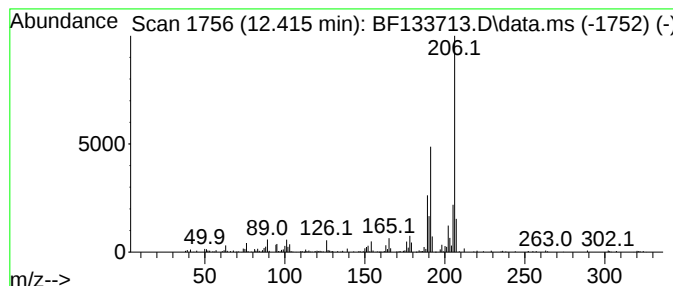
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ClientSampleId :  
SB-07-5.0-7.0

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF060923.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 12 Phenanthrene, 3,6-dimethyl- Concentration Rank 5

| R.T.      | EstConc                     | Area   | Relative to ISTD |         | R.T.        |      |
|-----------|-----------------------------|--------|------------------|---------|-------------|------|
| 12.416    | 8.35 ng                     | 197736 | Phenanthrene-d10 |         | 11.363      |      |
| Hit# of 5 | Tentative ID                |        | MW               | MolForm | CAS#        | Qual |
| 1         | Phenanthrene, 3,6-dimethyl- |        | 206              | C16H14  | 001576-67-6 | 93   |
| 2         | Phenanthrene, 2,5-dimethyl- |        | 206              | C16H14  | 003674-66-6 | 93   |
| 3         | 9,10-Dimethylanthracene     |        | 206              | C16H14  | 000781-43-1 | 91   |
| 4         | Phenanthrene, 1,7-dimethyl- |        | 206              | C16H14  | 000483-87-4 | 90   |
| 5         | Phenanthrene, 2,3-dimethyl- |        | 206              | C16H14  | 003674-65-5 | 87   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF061223\  
Data File : BF133713.D  
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Operator : CG\JU  
Sample : 03044-12  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

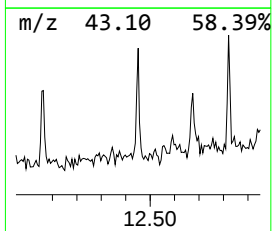
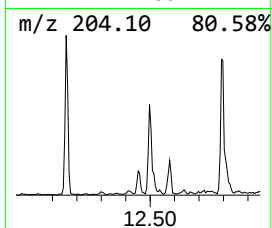
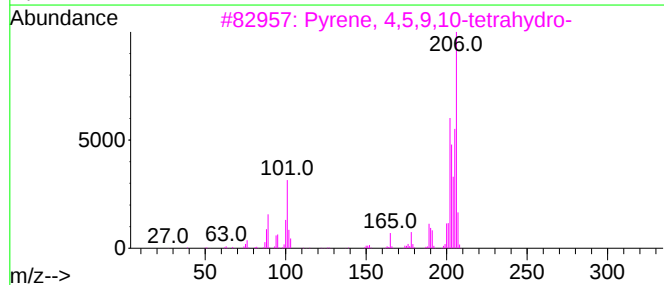
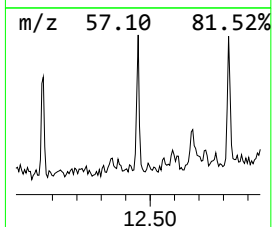
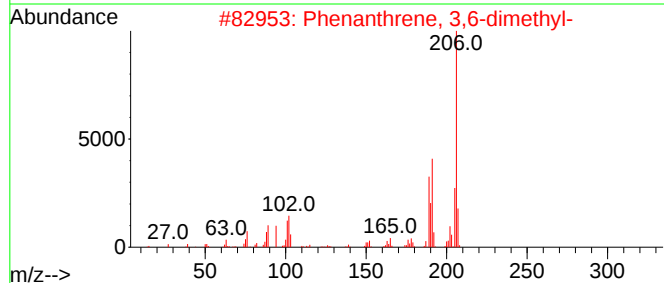
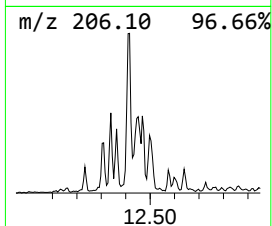
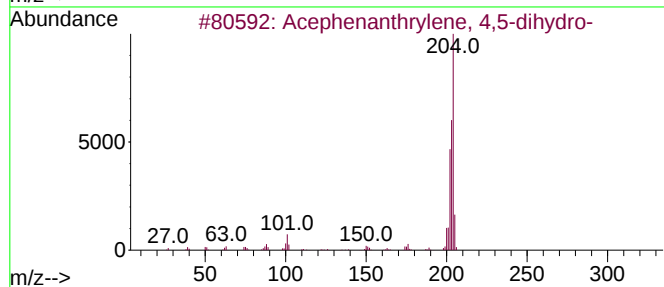
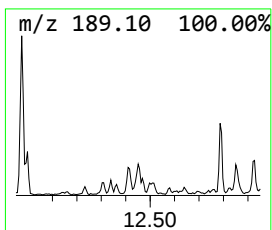
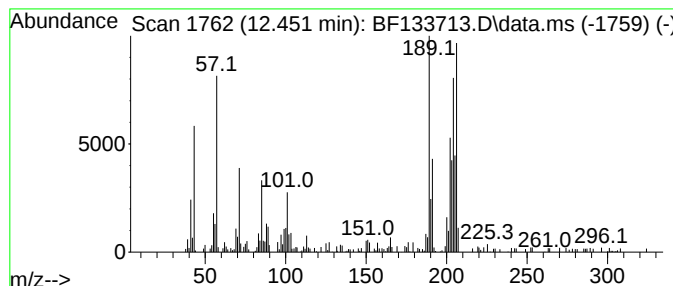
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Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF060923.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 13 Acephenanthrylene, 4,5-dihy... Concentration Rank 10

| R.T.      | EstConc                            | Area   | Relative to ISTD |         | R.T.        |      |
|-----------|------------------------------------|--------|------------------|---------|-------------|------|
| 12.451    | 5.74 ng                            | 135896 | Phenanthrene-d10 |         | 11.363      |      |
| Hit# of 5 | Tentative ID                       |        | MW               | MolForm | CAS#        | Qual |
| 1         | Acephenanthrylene, 4,5-dihydro-    |        | 204              | C16H12  | 006232-48-0 | 66   |
| 2         | Phenanthrene, 3,6-dimethyl-        |        | 206              | C16H14  | 001576-67-6 | 38   |
| 3         | Pyrene, 4,5,9,10-tetrahydro-       |        | 206              | C16H14  | 000781-17-9 | 35   |
| 4         | Naphthalene, 1-phenyl-             |        | 204              | C16H12  | 000605-02-7 | 35   |
| 5         | Indeno[2,1-a]indene, 5,10-dihydro- |        | 204              | C16H12  | 006543-29-9 | 35   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF061223\  
Data File : BF133713.D  
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Operator : CG\JU  
Sample : 03044-12  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

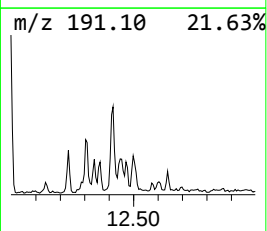
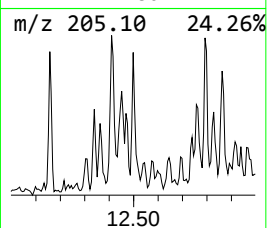
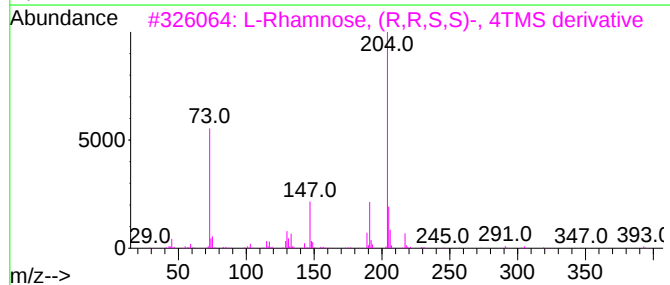
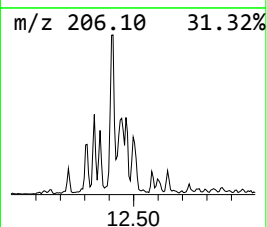
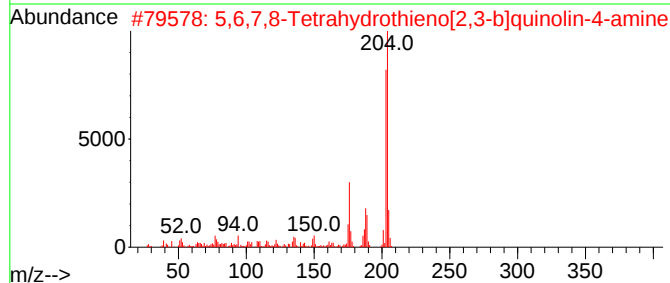
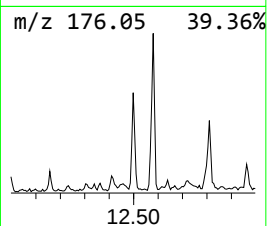
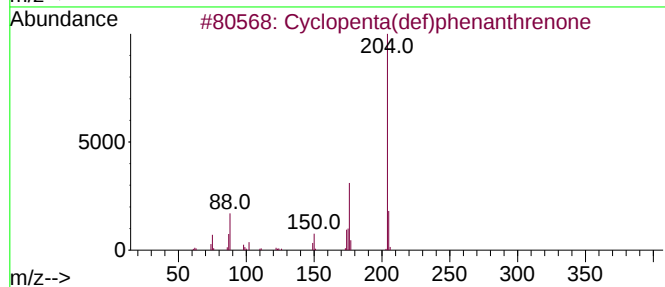
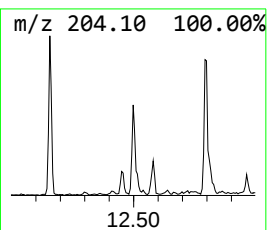
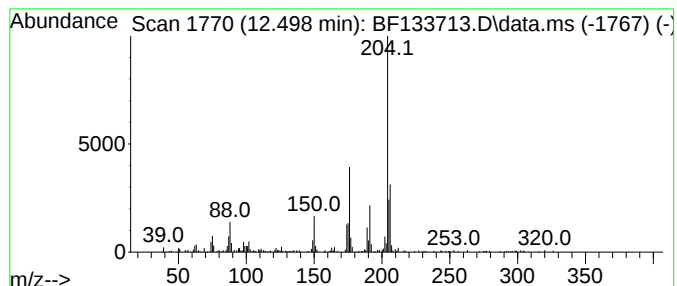
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SB-07-5.0-7.0

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 14 Cyclopenta(def)phenanthrenone Concentration Rank 7

| R.T.      | EstConc                             | Area   | Relative to ISTD |             | R.T.        |      |
|-----------|-------------------------------------|--------|------------------|-------------|-------------|------|
| 12.498    | 6.40 ng                             | 151607 | Phenanthrene-d10 |             | 11.363      |      |
| Hit# of 5 | Tentative ID                        |        | MW               | MolForm     | CAS#        | Qual |
| 1         | Cyclopenta(def)phenanthrenone       |        | 204              | C15H8O      | 005737-13-3 | 89   |
| 2         | 5,6,7,8-Tetrahydrothieno[2,3-b]q... |        | 204              | C11H12N2S   | 122914-50-5 | 47   |
| 3         | L-Rhamnose, (R,R,S,S)-, 4TMS der... |        | 452              | C18H44O5Si4 | 108392-01-4 | 38   |
| 4         | Pyrimido[5,4-b]benzofurane, 4-ch... |        | 204              | C10H5ClN2O  | 039876-88-5 | 38   |
| 5         | [1,1'-Biphenyl]-4-ol, 4'-chloro-    |        | 204              | C12H9ClO    | 028034-99-3 | 38   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF061223\  
Data File : BF133713.D  
Acq On : 12 Jun 2023 20:09  
Operator : CG\JU  
Sample : 03044-12  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-07-5.0-7.0

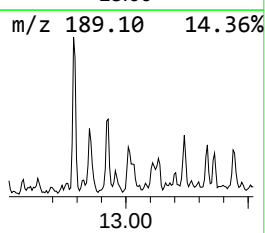
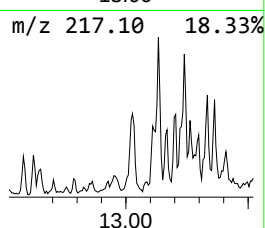
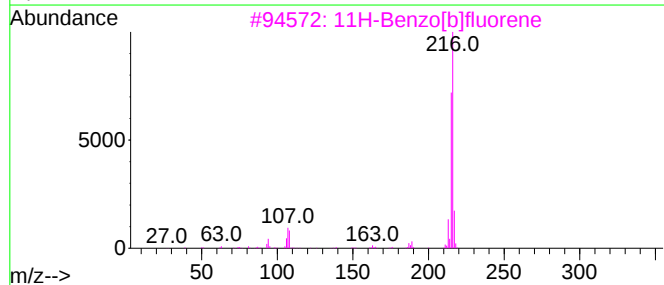
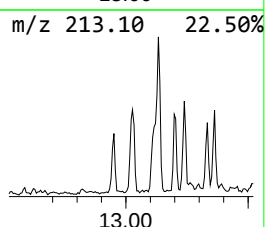
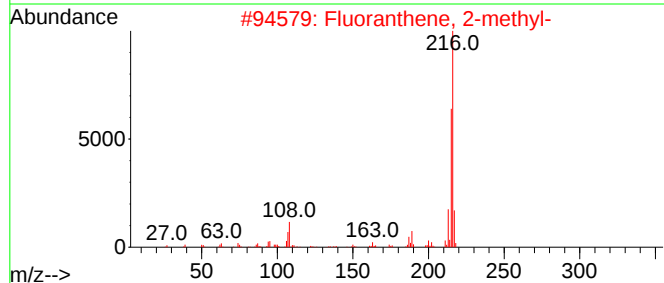
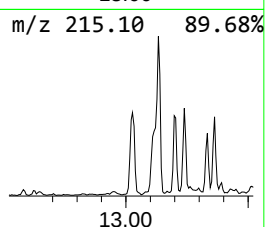
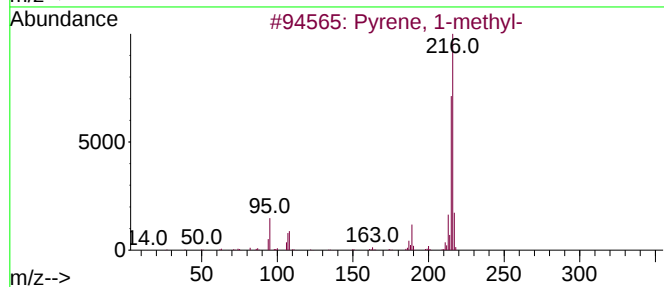
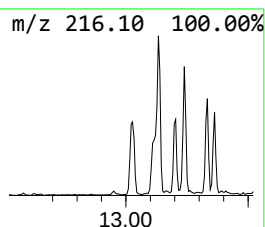
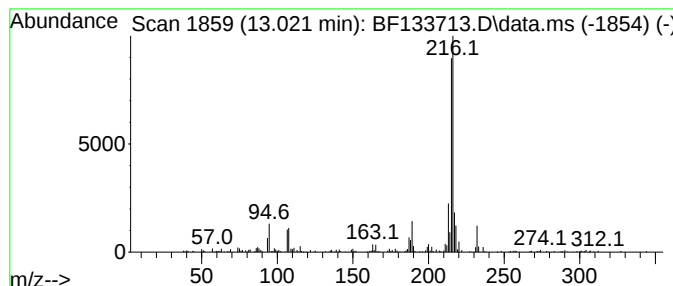
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 15 Pyrene, 1-methyl- Concentration Rank 16

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 13.021 | 3.59 ng | 273710 | Chrysene-d12     | 14.009 |

| Hit# | of | 5 | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------|-----|---------|-------------|------|
| 1    |    |   | Pyrene, 1-methyl-       | 216 | C17H12  | 002381-21-7 | 95   |
| 2    |    |   | Fluoranthene, 2-methyl- | 216 | C17H12  | 033543-31-6 | 94   |
| 3    |    |   | 11H-Benzo[b]fluorene    | 216 | C17H12  | 000243-17-4 | 93   |
| 4    |    |   | Pyrene, 2-methyl-       | 216 | C17H12  | 003442-78-2 | 86   |
| 5    |    |   | 11H-Benzo[a]fluorene    | 216 | C17H12  | 000238-84-6 | 81   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF061223\  
Data File : BF133713.D  
Acq On : 12 Jun 2023 20:09  
Operator : CG\JU  
Sample : 03044-12  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-07-5.0-7.0

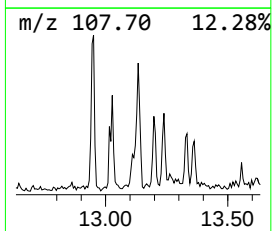
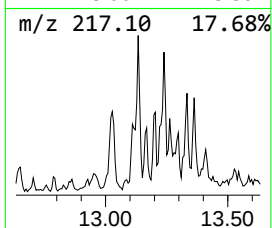
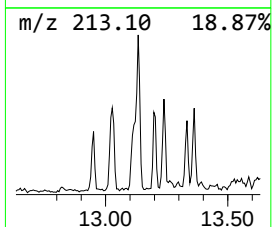
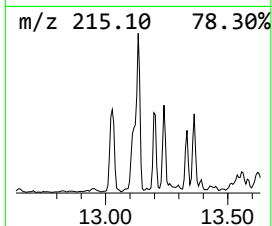
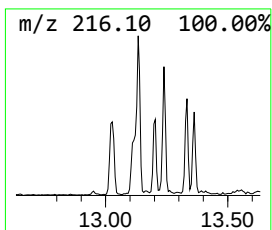
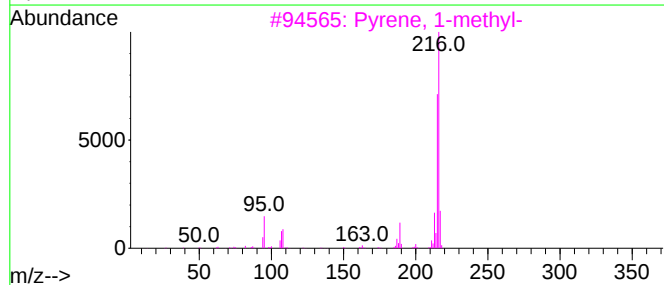
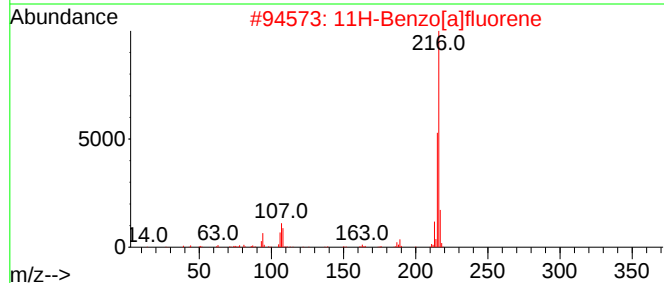
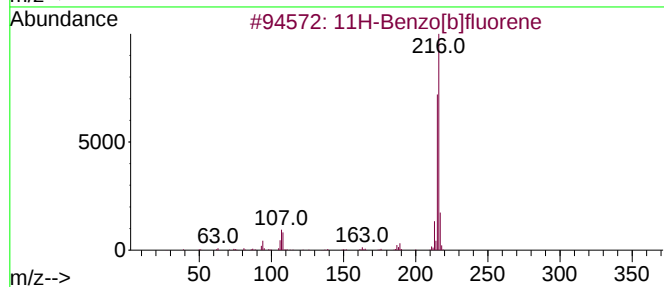
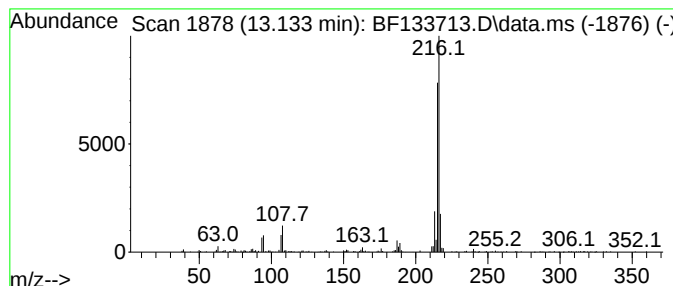
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 16 11H-Benzo[b]fluorene Concentration Rank 20

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 13.133 | 3.05 ng | 232796 | Chrysene-d12     | 14.009 |

| Hit# | of | 5 | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------|-----|---------|-------------|------|
| 1    |    |   | 11H-Benzo[b]fluorene    | 216 | C17H12  | 000243-17-4 | 94   |
| 2    |    |   | 11H-Benzo[a]fluorene    | 216 | C17H12  | 000238-84-6 | 94   |
| 3    |    |   | Pyrene, 1-methyl-       | 216 | C17H12  | 002381-21-7 | 94   |
| 4    |    |   | Fluoranthene, 2-methyl- | 216 | C17H12  | 033543-31-6 | 93   |
| 5    |    |   | Pyrene, 2-methyl-       | 216 | C17H12  | 003442-78-2 | 87   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF061223\  
Data File : BF133713.D  
Acq On : 12 Jun 2023 20:09  
Operator : CG\JU  
Sample : 03044-12  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-07-5.0-7.0

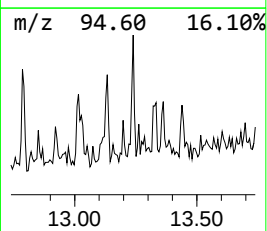
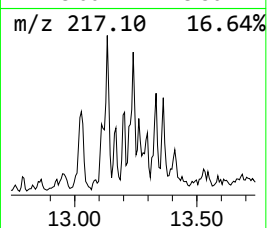
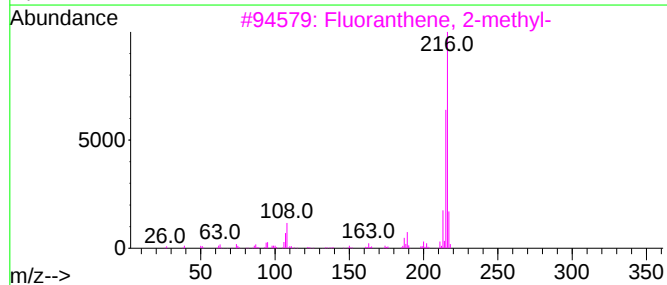
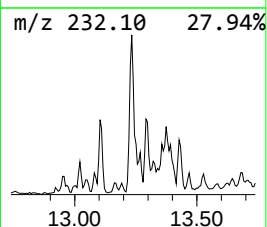
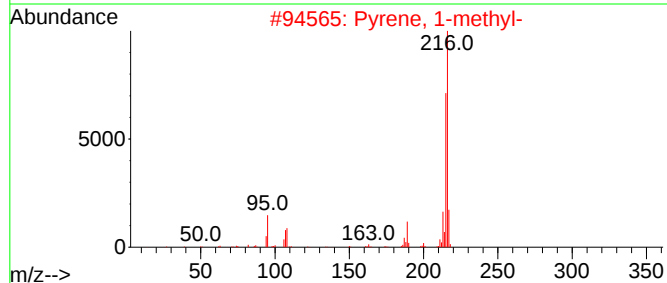
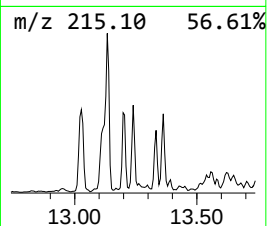
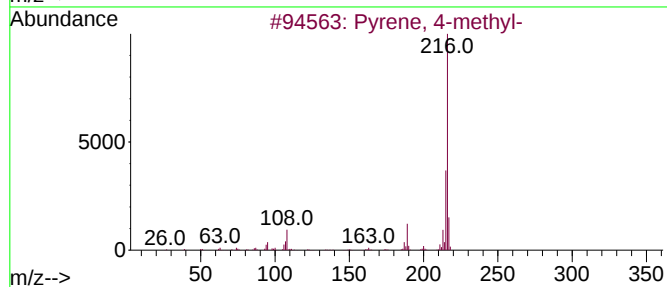
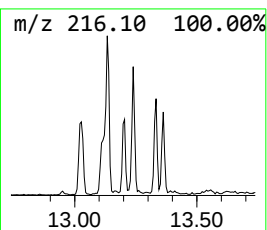
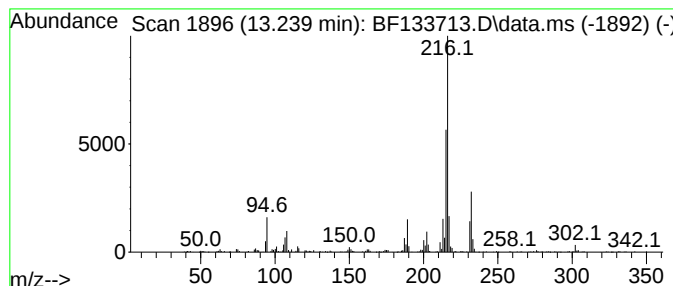
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 17 Pyrene, 4-methyl- Concentration Rank 17

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 13.239 | 3.53 ng | 268855 | Chrysene-d12     | 14.009 |

| Hit# | of 5 | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|------|------|-------------------------|-----|---------|-------------|------|
| 1    |      | Pyrene, 4-methyl-       | 216 | C17H12  | 003353-12-6 | 96   |
| 2    |      | Pyrene, 1-methyl-       | 216 | C17H12  | 002381-21-7 | 95   |
| 3    |      | Fluoranthene, 2-methyl- | 216 | C17H12  | 033543-31-6 | 93   |
| 4    |      | Pyrene, 2-methyl-       | 216 | C17H12  | 003442-78-2 | 93   |
| 5    |      | 11H-Benzo[b]fluorene    | 216 | C17H12  | 000243-17-4 | 70   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF061223\  
Data File : BF133713.D  
Acq On : 12 Jun 2023 20:09  
Operator : CG\JU  
Sample : 03044-12  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-07-5.0-7.0

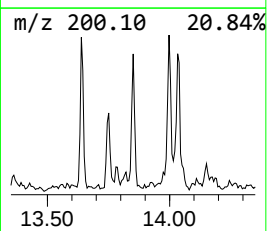
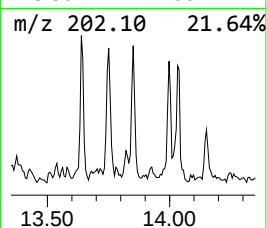
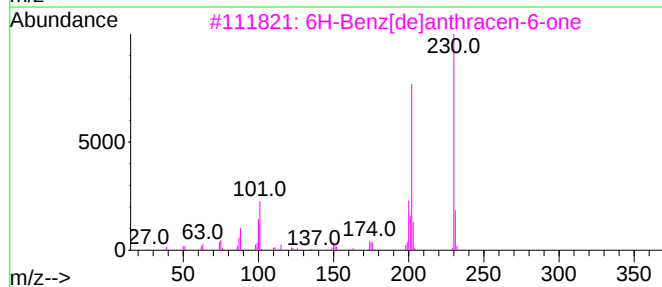
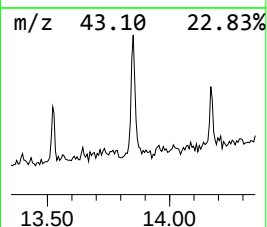
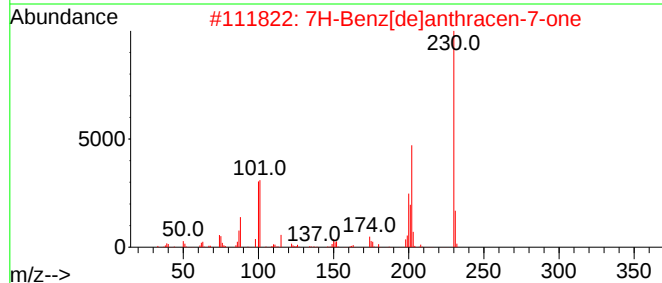
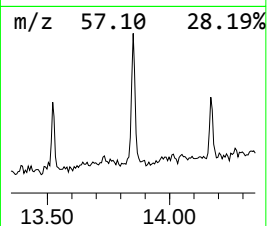
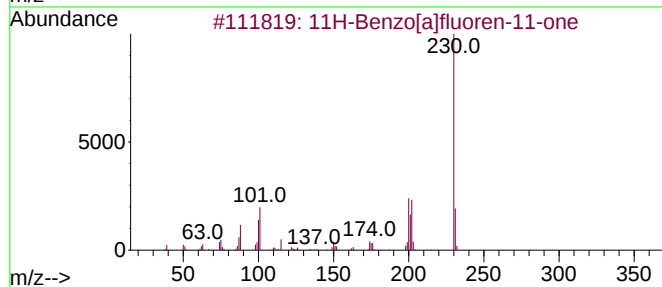
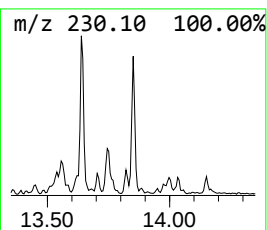
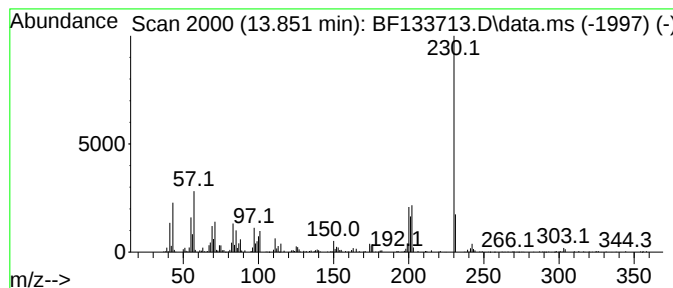
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 18 11H-Benzo[a]fluoren-11-one Concentration Rank 15

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 13.851 | 3.73 ng | 284328 | Chrysene-d12     | 14.009 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm   | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|-----------|-------------|------|
| 1    |    |   | 11H-Benzo[a]fluoren-11-one          | 230 | C17H10O   | 000479-79-8 | 91   |
| 2    |    |   | 7H-Benz[de]anthracen-7-one          | 230 | C17H10O   | 000082-05-3 | 74   |
| 3    |    |   | 6H-Benz[de]anthracen-6-one          | 230 | C17H10O   | 080252-14-8 | 52   |
| 4    |    |   | 4-Isothiazolecarbonitrile, 3-(me... | 230 | C8H10N2S3 | 037572-29-5 | 50   |
| 5    |    |   | (E)-.alpha.,.alpha.'-Dicyanostil... | 230 | C16H10N2  | 002450-55-7 | 47   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF061223\  
Data File : BF133713.D  
Acq On : 12 Jun 2023 20:09  
Operator : CG\JU  
Sample : 03044-12  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-07-5.0-7.0

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF060923.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

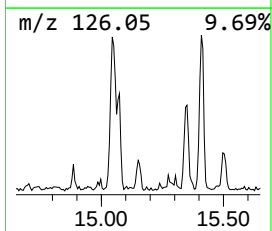
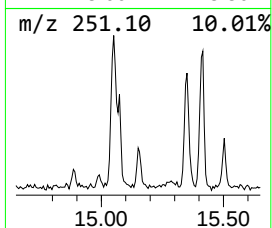
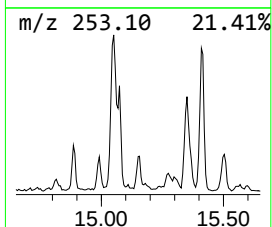
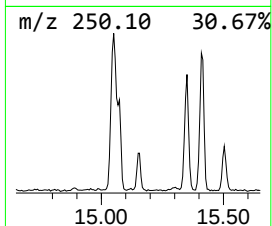
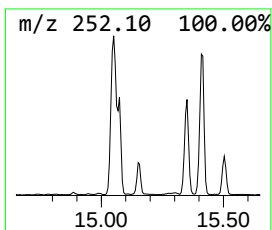
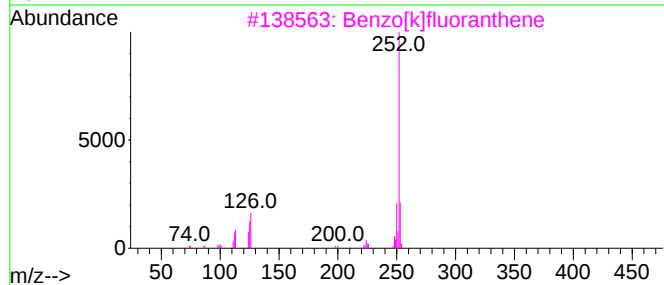
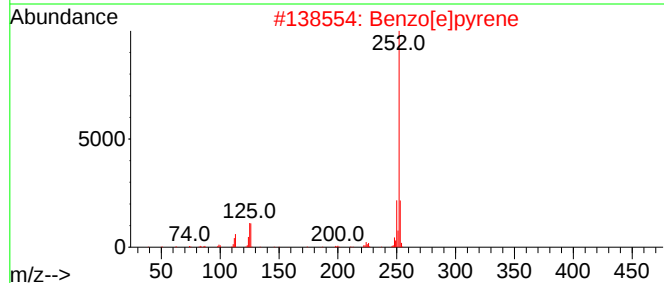
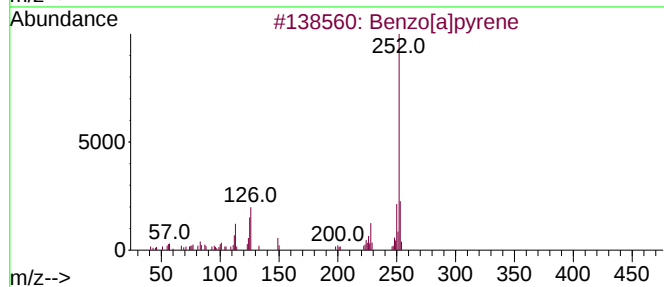
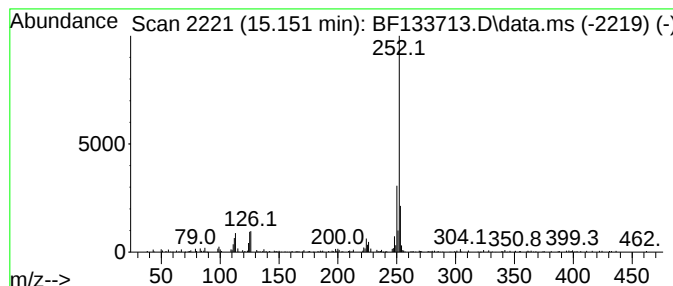
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 19 Benzo[e]pyrene Concentration Rank 9

| R.T.   | EstConc | Area  | Relative to ISTD | R.T.   |
|--------|---------|-------|------------------|--------|
| 15.151 | 6.36 ng | 88960 | Perylene-d12     | 15.474 |

| Hit# | of 5 | Tentative ID         | MW  | MolForm | CAS#        | Qual |
|------|------|----------------------|-----|---------|-------------|------|
| 1    |      | Benzo[a]pyrene       | 252 | C20H12  | 000050-32-8 | 94   |
| 2    |      | Benzo[e]pyrene       | 252 | C20H12  | 000192-97-2 | 93   |
| 3    |      | Benzo[k]fluoranthene | 252 | C20H12  | 000207-08-9 | 90   |
| 4    |      | Benzo[b]fluoranthene | 252 | C20H12  | 000205-99-2 | 81   |
| 5    |      | Perylene             | 252 | C20H12  | 000198-55-0 | 64   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF061223\  
Data File : BF133713.D  
Acq On : 12 Jun 2023 20:09  
Operator : CG\JU  
Sample : 03044-12  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-07-5.0-7.0

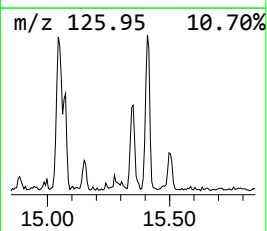
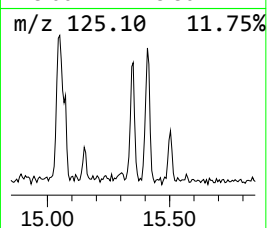
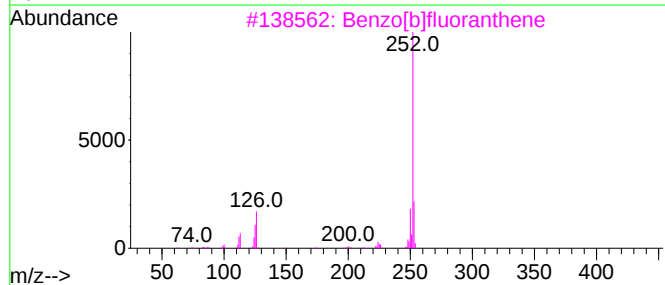
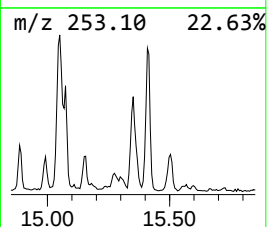
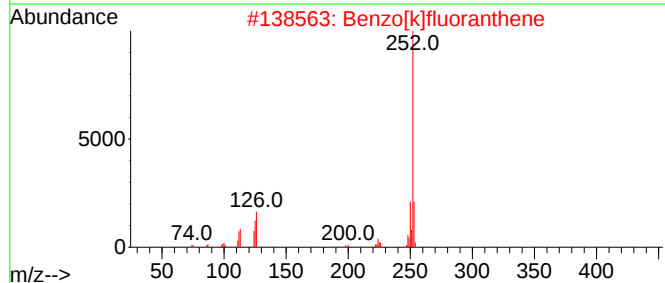
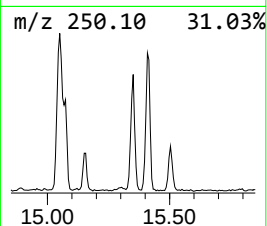
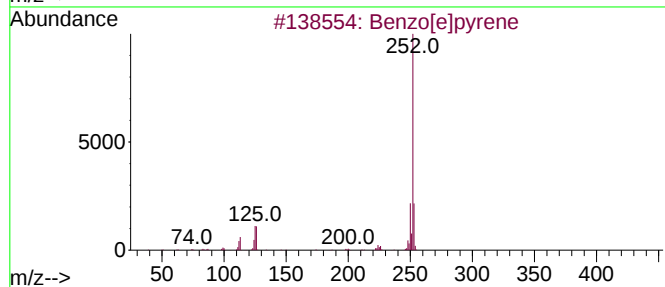
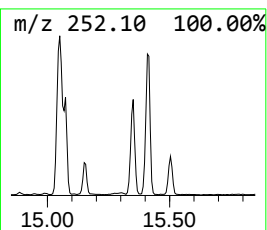
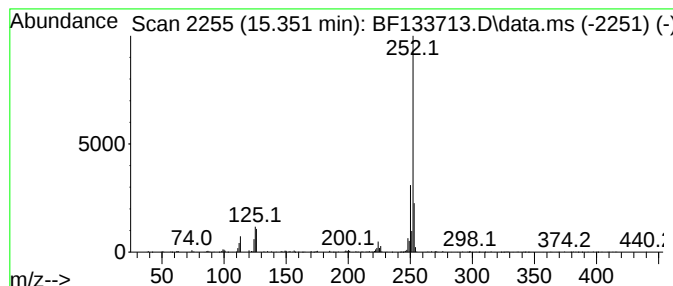
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 20 Benzo[j]fluoranthene Concentration Rank 1

| R.T.   | EstConc  | Area   | Relative to ISTD | R.T.   |
|--------|----------|--------|------------------|--------|
| 15.351 | 27.24 ng | 381253 | Perylene-d12     | 15.474 |

| Hit# | of | 5 | Tentative ID         | MW  | MolForm | CAS#        | Qual |
|------|----|---|----------------------|-----|---------|-------------|------|
| 1    |    |   | Benzo[e]pyrene       | 252 | C20H12  | 000192-97-2 | 99   |
| 2    |    |   | Benzo[k]fluoranthene | 252 | C20H12  | 000207-08-9 | 97   |
| 3    |    |   | Benzo[b]fluoranthene | 252 | C20H12  | 000205-99-2 | 95   |
| 4    |    |   | Benzo[j]fluoranthene | 252 | C20H12  | 000205-82-3 | 94   |
| 5    |    |   | Benzo[a]pyrene       | 252 | C20H12  | 000050-32-8 | 93   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF061223\  
 Data File : BF133713.D  
 Acq On : 12 Jun 2023 20:09  
 Operator : CG\JU  
 Sample : 03044-12  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-07-5.0-7.0

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF060923.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
 TIC Integration Parameters: LSCINT.P

| TIC Top Hit name   | RT     | EstConc | Units | Response | --Internal Standard-- |        |         |      |
|--------------------|--------|---------|-------|----------|-----------------------|--------|---------|------|
|                    |        |         |       |          | #                     | RT     | Resp    | Conc |
| Benzophenone       | 10.580 | 4.9     | ng    | 111259   | 3                     | 9.869  | 450547  | 20.0 |
| 9H-Fluorene, 1-... | 10.969 | 3.1     | ng    | 73509    | 4                     | 11.363 | 473461  | 20.0 |
| 9H-Fluoren-9-one   | 11.163 | 3.4     | ng    | 79719    | 4                     | 11.363 | 473461  | 20.0 |
| Dibenzothiophene   | 11.257 | 3.9     | ng    | 92674    | 4                     | 11.363 | 473461  | 20.0 |
| Phenanthrene, 2... | 11.863 | 10.6    | ng    | 251854   | 4                     | 11.363 | 473461  | 20.0 |
| Phenanthrene, 1... | 11.886 | 17.8    | ng    | 420348   | 4                     | 11.363 | 473461  | 20.0 |
| 1H-Cyclopropa[l... | 11.939 | 5.0     | ng    | 119310   | 4                     | 11.363 | 473461  | 20.0 |
| 4H-Cyclopenta[d... | 11.974 | 15.8    | ng    | 374728   | 4                     | 11.363 | 473461  | 20.0 |
| 1H-Indene, 2-ph... | 11.998 | 7.1     | ng    | 167175   | 4                     | 11.363 | 473461  | 20.0 |
| Naphthalene, 2-... | 12.157 | 6.4     | ng    | 150821   | 4                     | 11.363 | 473461  | 20.0 |
| 9,10-Anthracene... | 12.180 | 5.1     | ng    | 121575   | 4                     | 11.363 | 473461  | 20.0 |
| Phenanthrene, 3... | 12.416 | 8.3     | ng    | 197736   | 4                     | 11.363 | 473461  | 20.0 |
| Acephenanthryle... | 12.451 | 5.7     | ng    | 135896   | 4                     | 11.363 | 473461  | 20.0 |
| Cyclopenta(def)... | 12.498 | 6.4     | ng    | 151607   | 4                     | 11.363 | 473461  | 20.0 |
| Pyrene, 1-methyl-  | 13.021 | 3.6     | ng    | 273710   | 5                     | 14.009 | 1525310 | 20.0 |
| 11H-Benzo[b]flu... | 13.133 | 3.0     | ng    | 232796   | 5                     | 14.009 | 1525310 | 20.0 |
| Pyrene, 4-methyl-  | 13.239 | 3.5     | ng    | 268855   | 5                     | 14.009 | 1525310 | 20.0 |
| 11H-Benzo[a]flu... | 13.851 | 3.7     | ng    | 284328   | 5                     | 14.009 | 1525310 | 20.0 |
| Benzo[e]pyrene     | 15.151 | 6.4     | ng    | 88960    | 6                     | 15.474 | 279946  | 20.0 |
| Benzo[j]fluoran... | 15.351 | 27.2    | ng    | 381253   | 6                     | 15.474 | 279946  | 20.0 |