

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF042519\  
 Data File : BF113997.D  
 Acq On : 25 Apr 2019 23:58  
 Operator : JU/SJ  
 Sample : K2203-19 2X  
 Misc :  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SU-03-042419-B

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-BF042219.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         | 2.140       | 4             | 9           | 15           | rVB      | 20905          | 26482         | 1.79%           | 0.116%        |
| 2         | 5.510       | 578           | 582         | 596          | rBV      | 1047283        | 976029        | 66.10%          | 4.292%        |
| 3         | 6.516       | 749           | 753         | 772          | rBV      | 1187360        | 1040891       | 70.49%          | 4.577%        |
| 4         | 6.663       | 774           | 778         | 781          | rBV      | 1298136        | 1086900       | 73.61%          | 4.779%        |
| 5         | 6.892       | 814           | 817         | 821          | rBV      | 725226         | 587668        | 39.80%          | 2.584%        |
| 6         | 7.051       | 840           | 844         | 848          | rBV      | 1022606        | 829061        | 56.15%          | 3.646%        |
| 7         | 7.451       | 908           | 912         | 925          | rBV      | 657422         | 641516        | 43.45%          | 2.821%        |
| 8         | 8.175       | 1032          | 1035        | 1050         | rBV      | 833536         | 802808        | 54.37%          | 3.530%        |
| 9         | 9.251       | 1214          | 1218        | 1230         | rBV      | 1400726        | 1261532       | 85.44%          | 5.547%        |
| 10        | 9.639       | 1281          | 1284        | 1293         | rVB      | 148560         | 149402        | 10.12%          | 0.657%        |
| 11        | 9.792       | 1306          | 1310        | 1315         | rVB      | 25213          | 20760         | 1.41%           | 0.091%        |
| 12        | 9.933       | 1330          | 1334        | 1337         | rBV      | 1073942        | 1006003       | 68.13%          | 4.424%        |
| 13        | 9.963       | 1337          | 1339        | 1348         | rVB      | 66649          | 68234         | 4.62%           | 0.300%        |
| 14        | 10.133      | 1364          | 1368        | 1372         | rBV2     | 30482          | 34346         | 2.33%           | 0.151%        |
| 15        | 10.245      | 1384          | 1387        | 1391         | rBV2     | 15688          | 16129         | 1.09%           | 0.071%        |
| 16        | 10.475      | 1424          | 1426        | 1432         | rVB      | 74810          | 76046         | 5.15%           | 0.334%        |
| 17        | 10.545      | 1432          | 1438        | 1439         | rBV2     | 18598          | 24635         | 1.67%           | 0.108%        |
| 18        | 10.633      | 1450          | 1453        | 1457         | rVB2     | 24041          | 25370         | 1.72%           | 0.112%        |
| 19        | 10.716      | 1463          | 1467        | 1473         | rBV      | 1017335        | 982435        | 66.53%          | 4.320%        |
| 20        | 10.839      | 1484          | 1488        | 1492         | rVB5     | 16604          | 23666         | 1.60%           | 0.104%        |
| 21        | 11.027      | 1513          | 1520        | 1522         | rBV3     | 33103          | 42665         | 2.89%           | 0.188%        |
| 22        | 11.110      | 1531          | 1534        | 1537         | rVB      | 23342          | 19983         | 1.35%           | 0.088%        |
| 23        | 11.151      | 1537          | 1541        | 1543         | rBV3     | 15403          | 20779         | 1.41%           | 0.091%        |
| 24        | 11.175      | 1543          | 1545        | 1551         | rVB2     | 21099          | 19445         | 1.32%           | 0.086%        |
| 25        | 11.275      | 1556          | 1562        | 1566         | rVV5     | 19751          | 41419         | 2.81%           | 0.182%        |
| 26        | 11.310      | 1566          | 1568        | 1574         | rVB      | 48253          | 43988         | 2.98%           | 0.193%        |
| 27        | 11.416      | 1582          | 1586        | 1588         | rBV      | 1366343        | 1185984       | 80.32%          | 5.215%        |
| 28        | 11.439      | 1588          | 1590        | 1594         | rVV      | 611636         | 473843        | 32.09%          | 2.084%        |
| 29        | 11.486      | 1595          | 1598        | 1602         | rVV      | 176648         | 171888        | 11.64%          | 0.756%        |
| 30        | 11.522      | 1602          | 1604        | 1608         | rVV2     | 21006          | 22944         | 1.55%           | 0.101%        |
| 31        | 11.645      | 1622          | 1625        | 1627         | rBV      | 17104          | 16567         | 1.12%           | 0.073%        |
| 32        | 11.710      | 1633          | 1636        | 1639         | rBV      | 25014          | 19594         | 1.33%           | 0.086%        |
| 33        | 11.745      | 1639          | 1642        | 1647         | rVB2     | 39440          | 39656         | 2.69%           | 0.174%        |
| 34        | 11.827      | 1653          | 1656        | 1660         | rVB      | 25162          | 26517         | 1.80%           | 0.117%        |

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 ClientSampleId :  
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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-BF042219.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 35 | 11.916 | 1668 | 1671 | 1673 | rBV  | 144914  | 133806  | 9.06%  | 0.588% |
| 36 | 11.939 | 1673 | 1675 | 1680 | rVV2 | 282785  | 293364  | 19.87% | 1.290% |
| 37 | 11.992 | 1680 | 1684 | 1687 | rVV  | 84849   | 81523   | 5.52%  | 0.358% |
| 38 | 12.027 | 1687 | 1690 | 1692 | rVV2 | 238933  | 254002  | 17.20% | 1.117% |
| 39 | 12.051 | 1692 | 1694 | 1698 | rVB  | 115622  | 99298   | 6.72%  | 0.437% |
| 40 | 12.116 | 1700 | 1705 | 1708 | rBV5 | 12357   | 16653   | 1.13%  | 0.073% |
| 41 | 12.210 | 1718 | 1721 | 1723 | rBV  | 87157   | 68500   | 4.64%  | 0.301% |
| 42 | 12.233 | 1723 | 1725 | 1732 | rVB4 | 32047   | 40553   | 2.75%  | 0.178% |
| 43 | 12.357 | 1744 | 1746 | 1749 | rVB  | 35135   | 29288   | 1.98%  | 0.129% |
| 44 | 12.392 | 1749 | 1752 | 1754 | rBV  | 55157   | 41669   | 2.82%  | 0.183% |
| 45 | 12.416 | 1754 | 1756 | 1758 | rVB2 | 41036   | 31478   | 2.13%  | 0.138% |
| 46 | 12.463 | 1760 | 1764 | 1767 | rBV  | 124191  | 133545  | 9.04%  | 0.587% |
| 47 | 12.504 | 1767 | 1771 | 1776 | rVB2 | 89277   | 138902  | 9.41%  | 0.611% |
| 48 | 12.545 | 1776 | 1778 | 1784 | rBV3 | 56440   | 86116   | 5.83%  | 0.379% |
| 49 | 12.627 | 1788 | 1792 | 1795 | rBV  | 868410  | 745121  | 50.46% | 3.276% |
| 50 | 12.669 | 1797 | 1799 | 1801 | rBV  | 24670   | 23030   | 1.56%  | 0.101% |
| 51 | 12.692 | 1801 | 1803 | 1805 | rVB2 | 33763   | 25707   | 1.74%  | 0.113% |
| 52 | 12.721 | 1805 | 1808 | 1811 | rBV3 | 54226   | 51054   | 3.46%  | 0.224% |
| 53 | 12.780 | 1815 | 1818 | 1820 | rVB2 | 29389   | 25584   | 1.73%  | 0.112% |
| 54 | 12.857 | 1825 | 1831 | 1833 | rVV  | 771862  | 840607  | 56.93% | 3.696% |
| 55 | 12.910 | 1837 | 1840 | 1844 | rVB2 | 46330   | 69915   | 4.73%  | 0.307% |
| 56 | 12.998 | 1851 | 1855 | 1858 | rVB  | 1593273 | 1473446 | 99.79% | 6.479% |
| 57 | 13.074 | 1862 | 1868 | 1871 | rBV3 | 92043   | 143820  | 9.74%  | 0.632% |
| 58 | 13.127 | 1875 | 1877 | 1879 | rBV2 | 26067   | 24880   | 1.68%  | 0.109% |
| 59 | 13.163 | 1879 | 1883 | 1884 | rBV3 | 69998   | 81110   | 5.49%  | 0.357% |
| 60 | 13.180 | 1884 | 1886 | 1889 | rVB  | 207497  | 177521  | 12.02% | 0.781% |
| 61 | 13.245 | 1889 | 1897 | 1900 | rBV  | 161280  | 173313  | 11.74% | 0.762% |
| 62 | 13.286 | 1900 | 1904 | 1907 | rBV2 | 138999  | 140011  | 9.48%  | 0.616% |
| 63 | 13.380 | 1917 | 1920 | 1922 | rBV  | 84691   | 67795   | 4.59%  | 0.298% |
| 64 | 13.410 | 1922 | 1925 | 1929 | rVV  | 89869   | 80520   | 5.45%  | 0.354% |
| 65 | 13.586 | 1948 | 1955 | 1956 | rBV4 | 35882   | 72326   | 4.90%  | 0.318% |
| 66 | 13.604 | 1956 | 1958 | 1960 | rVB  | 31809   | 27717   | 1.88%  | 0.122% |
| 67 | 13.663 | 1965 | 1968 | 1969 | rVV2 | 34835   | 33992   | 2.30%  | 0.149% |
| 68 | 13.692 | 1970 | 1973 | 1977 | rVV  | 53997   | 87267   | 5.91%  | 0.384% |
| 69 | 13.751 | 1981 | 1983 | 1986 | rVV  | 26404   | 27450   | 1.86%  | 0.121% |
| 70 | 13.798 | 1986 | 1991 | 1994 | rVV2 | 63054   | 99630   | 6.75%  | 0.438% |
| 71 | 13.827 | 1994 | 1996 | 1998 | rVV  | 77706   | 68318   | 4.63%  | 0.300% |

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 SU-03-042419-B

Integration Parameters: rteint.p  
 Integrator: RTE  
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 Sampling : 1  
 Start Thrs: 0.2  
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 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-BF042219.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |         |        |
|----|--------|------|------|------|------|---------|---------|---------|--------|
| 72 | 13.851 | 1998 | 2000 | 2004 | rVV2 | 53195   | 69055   | 4.68%   | 0.304% |
| 73 | 13.898 | 2005 | 2008 | 2012 | rVB3 | 55257   | 62629   | 4.24%   | 0.275% |
| 74 | 13.968 | 2017 | 2020 | 2021 | rBV  | 35401   | 32465   | 2.20%   | 0.143% |
| 75 | 14.051 | 2029 | 2034 | 2037 | rBV2 | 1278516 | 1476595 | 100.00% | 6.493% |
| 76 | 14.074 | 2037 | 2038 | 2045 | rVB  | 338806  | 284665  | 19.28%  | 1.252% |
| 77 | 14.157 | 2050 | 2052 | 2056 | rBV  | 47740   | 39843   | 2.70%   | 0.175% |
| 78 | 14.216 | 2060 | 2062 | 2069 | rVB4 | 44959   | 67935   | 4.60%   | 0.299% |
| 79 | 14.268 | 2069 | 2071 | 2073 | rBV  | 22338   | 23248   | 1.57%   | 0.102% |
| 80 | 14.310 | 2076 | 2078 | 2083 | rVB5 | 20507   | 18489   | 1.25%   | 0.081% |
| 81 | 14.410 | 2092 | 2095 | 2096 | rBV  | 33891   | 31854   | 2.16%   | 0.140% |
| 82 | 14.445 | 2096 | 2101 | 2104 | rVV  | 108564  | 129145  | 8.75%   | 0.568% |
| 83 | 14.474 | 2104 | 2106 | 2110 | rVV  | 62841   | 60281   | 4.08%   | 0.265% |
| 84 | 14.533 | 2113 | 2116 | 2120 | rVV3 | 80809   | 119080  | 8.06%   | 0.524% |
| 85 | 14.568 | 2120 | 2122 | 2124 | rVV  | 60551   | 59556   | 4.03%   | 0.262% |
| 86 | 14.592 | 2124 | 2126 | 2130 | rVV2 | 62016   | 63198   | 4.28%   | 0.278% |
| 87 | 14.645 | 2130 | 2135 | 2139 | rVB4 | 32913   | 57214   | 3.87%   | 0.252% |
| 88 | 14.839 | 2165 | 2168 | 2171 | rBV  | 68889   | 62890   | 4.26%   | 0.277% |
| 89 | 15.104 | 2209 | 2213 | 2216 | rBV  | 215466  | 318053  | 21.54%  | 1.399% |
| 90 | 15.186 | 2224 | 2227 | 2230 | rBV  | 66814   | 75820   | 5.13%   | 0.333% |
| 91 | 15.215 | 2230 | 2232 | 2235 | rVB  | 49719   | 48576   | 3.29%   | 0.214% |
| 92 | 15.410 | 2262 | 2265 | 2272 | rVB  | 134408  | 178485  | 12.09%  | 0.785% |
| 93 | 15.474 | 2272 | 2276 | 2282 | rBV  | 217513  | 258813  | 17.53%  | 1.138% |
| 94 | 15.539 | 2282 | 2287 | 2291 | rBV  | 721723  | 996732  | 67.50%  | 4.383% |
| 95 | 16.015 | 2365 | 2368 | 2375 | rVB3 | 48542   | 73727   | 4.99%   | 0.324% |
| 96 | 17.027 | 2534 | 2540 | 2549 | rVB2 | 85884   | 187324  | 12.69%  | 0.824% |
| 97 | 17.468 | 2611 | 2615 | 2626 | rVB2 | 53252   | 111687  | 7.56%   | 0.491% |

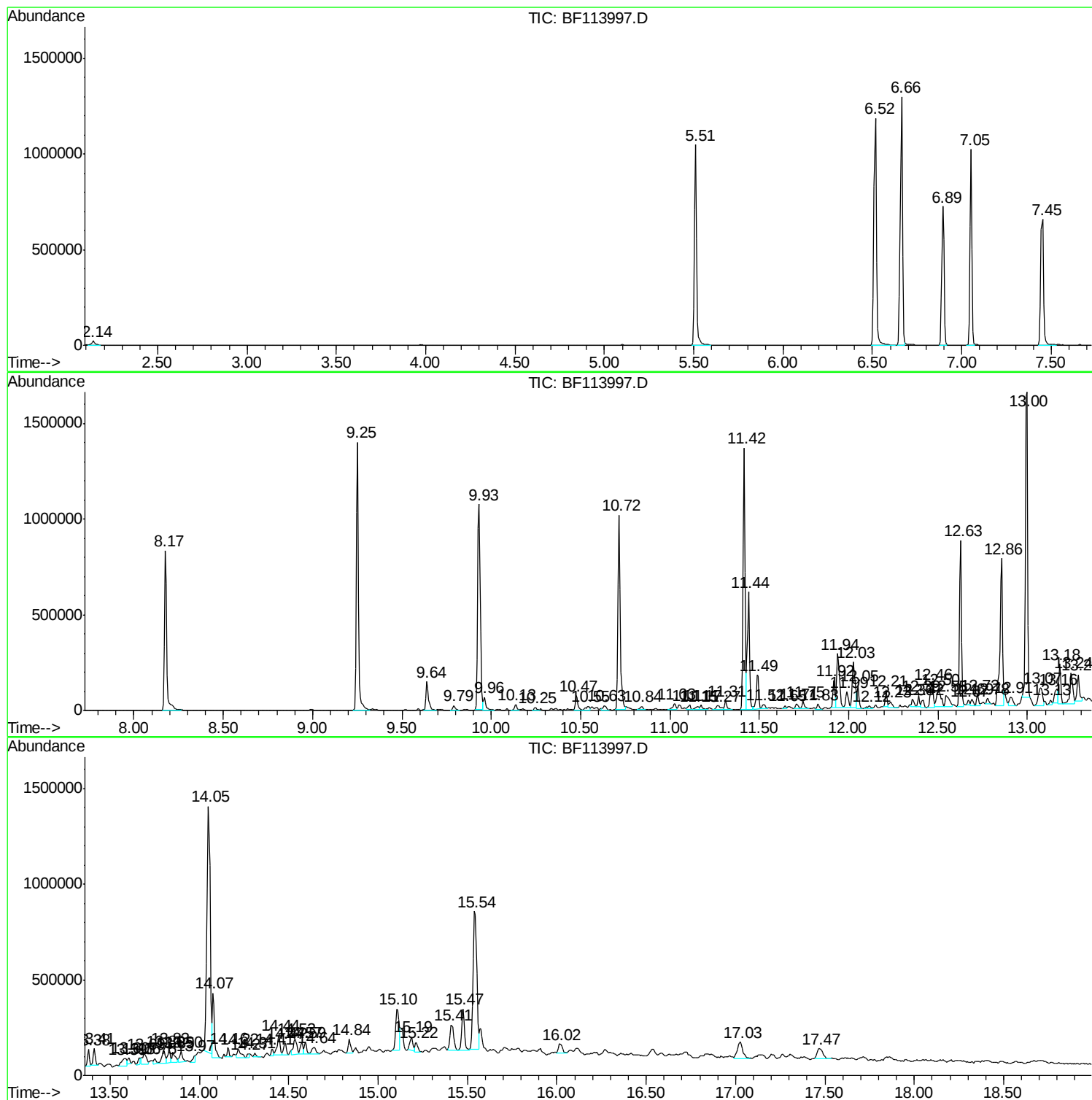
Sum of corrected areas: 22741375

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Instrument :  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF042219.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\BF042519\  
Data File : BF113997.D  
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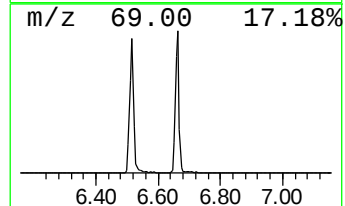
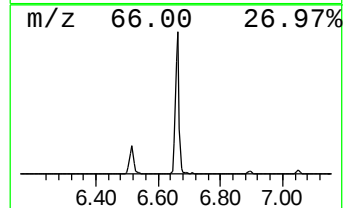
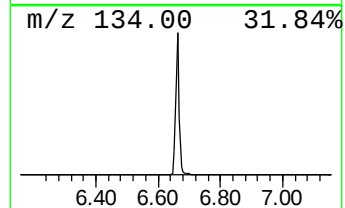
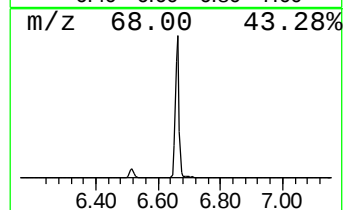
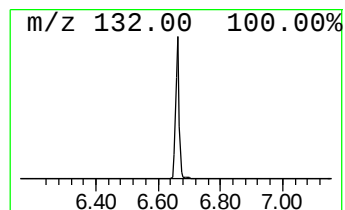
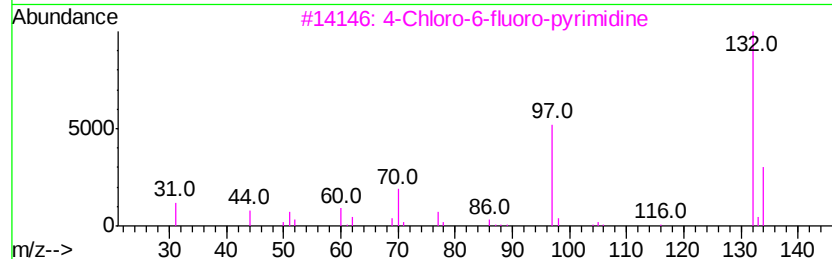
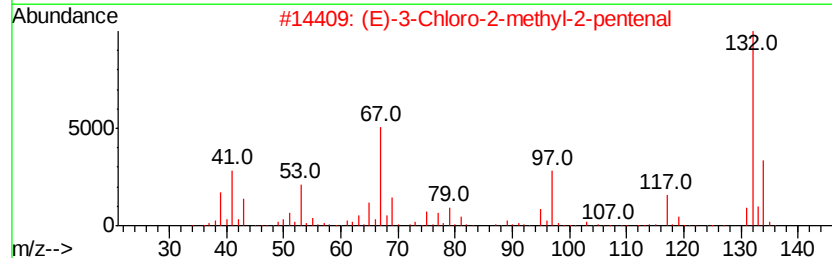
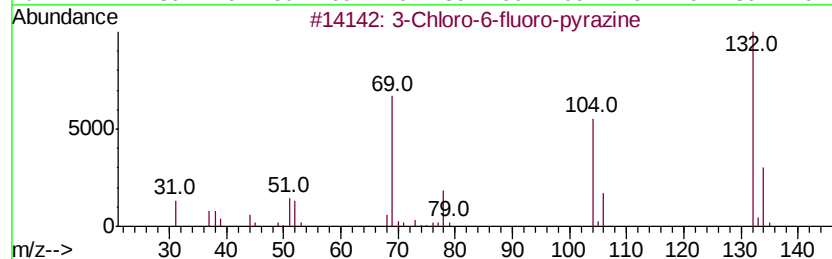
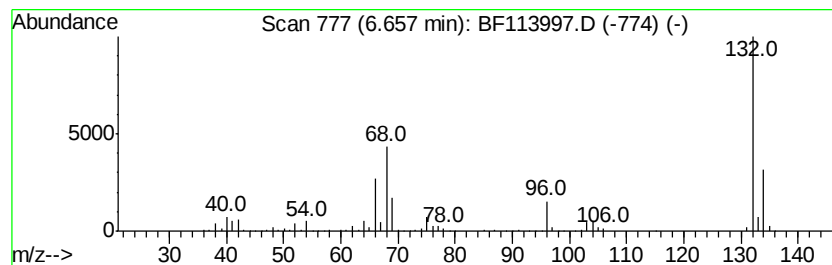
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF042219.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 1 unknown6.66 Concentration Rank 1

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.66 | 36.99 ng | 1086900 | 1,4-Dichlorobenzene-d4 | 6.89 |

| Hit# | of | Tentative ID                     | MW  | MolForm   | CAS#         | Qual |
|------|----|----------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 3-Chloro-6-fluoro-pyrazine       | 132 | C4H2ClFN2 | 1000146-10-7 | 25   |
| 2    |    | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO   | 031357-76-3  | 17   |
| 3    |    | 4-Chloro-6-fluoro-pyrimidine     | 132 | C4H2ClFN2 | 051422-01-6  | 9    |
| 4    |    | 1-Methylpyrrolo[1,2-a]pyrazine   | 132 | C8H8N2    | 064608-59-9  | 9    |
| 5    |    | Cyclopropanamine, 1-phenyl-      | 133 | C9H11N    | 1000351-26-2 | 9    |



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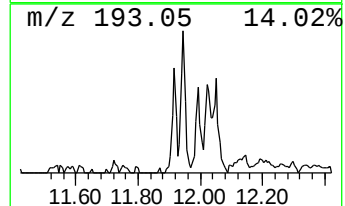
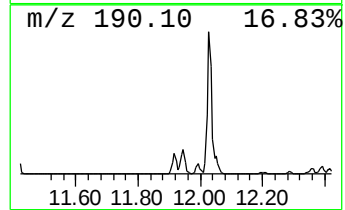
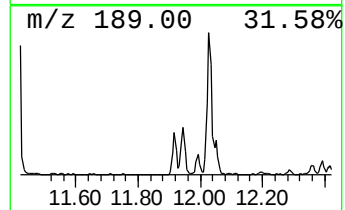
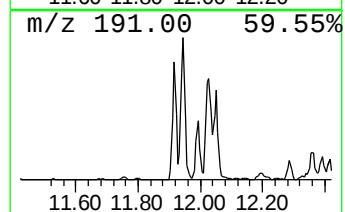
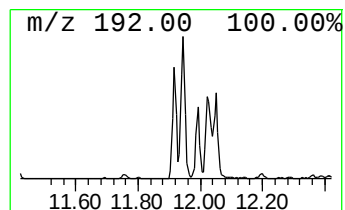
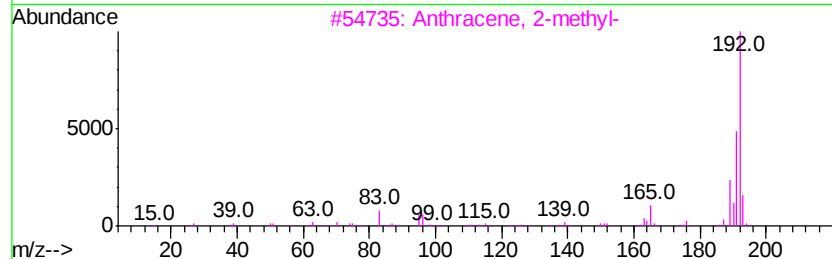
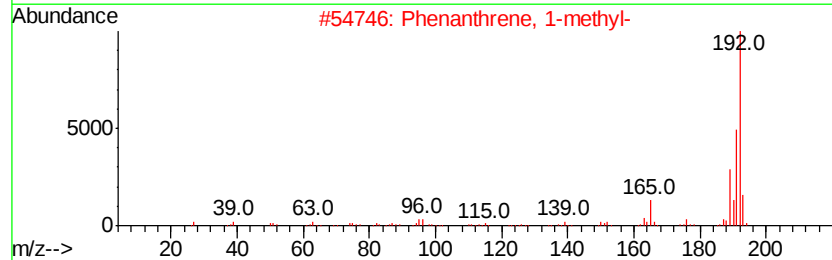
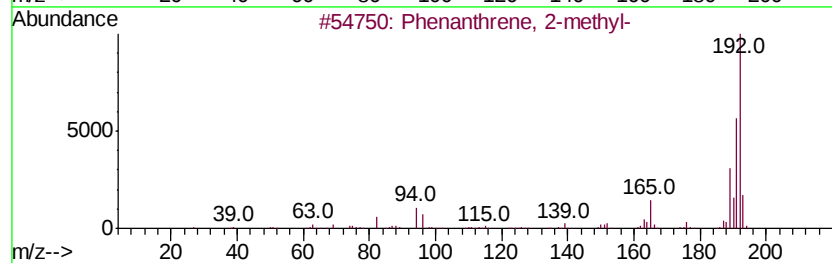
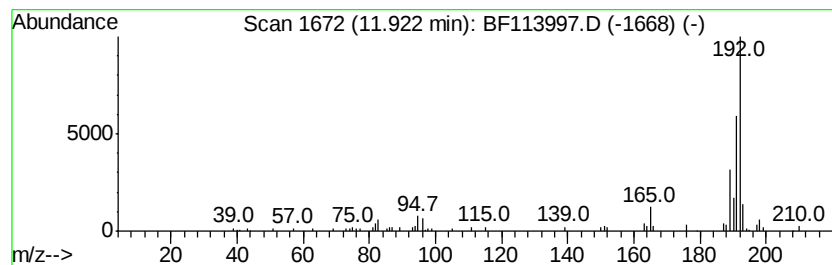
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF042219.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 3 Phenanthrene, 2-methyl- Concentration Rank 9

| R.T.      | EstConc                             | Area   | Relative to ISTD | R.T.        |      |
|-----------|-------------------------------------|--------|------------------|-------------|------|
| 11.92     | 2.26 ng                             | 133806 | Phenanthrene-d10 | 11.42       |      |
| 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 | 95   |
| 5         | Phenanthrene, 4-methyl-             | 192    | C15H12           | 000832-64-4 | 95   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF042519\  
Data File : BF113997.D  
Acq On : 25 Apr 2019 23:58  
Operator : JU/SJ  
Sample : K2203-19 2X  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

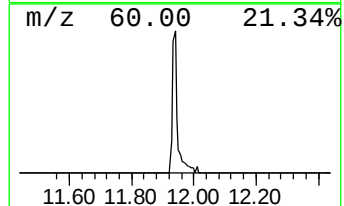
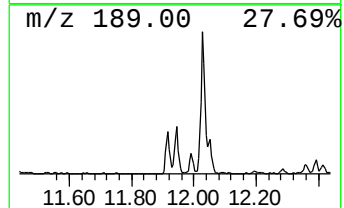
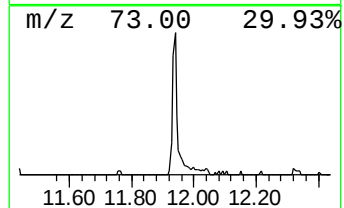
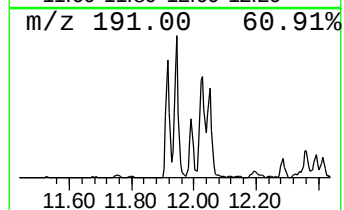
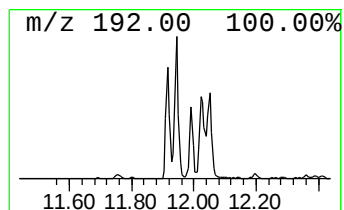
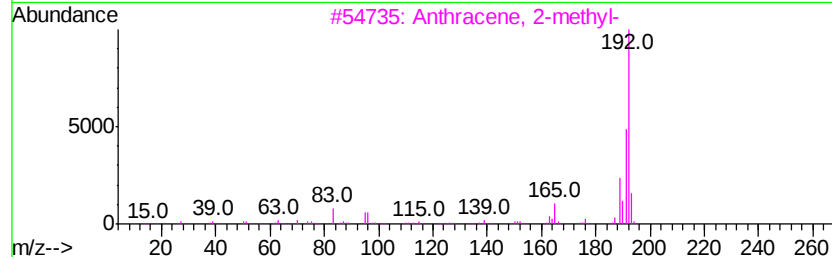
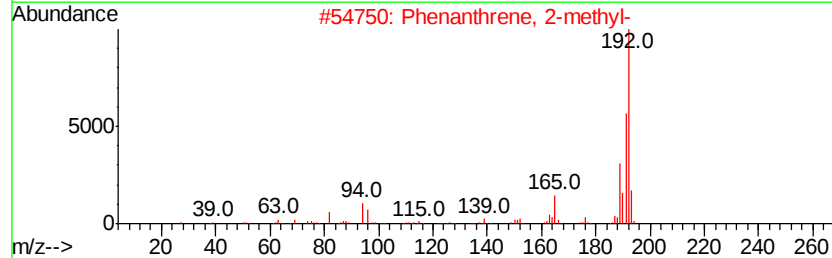
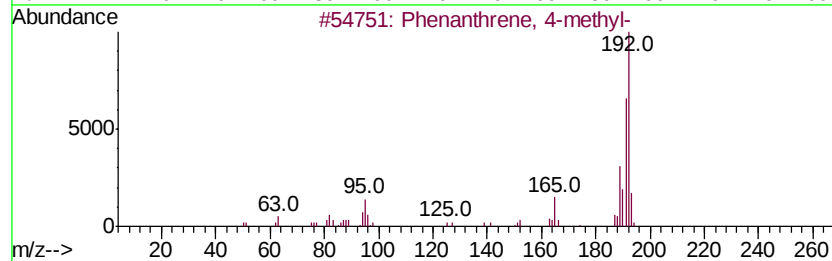
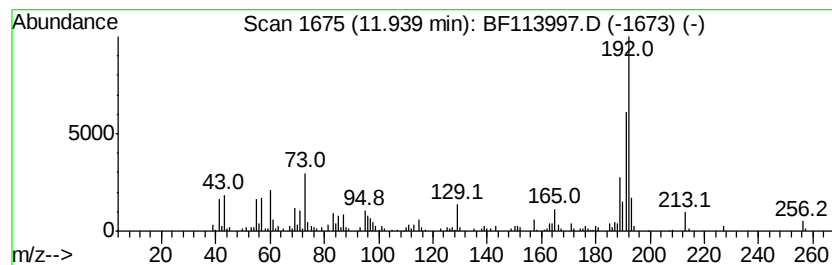
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BNA\_F  
ClientSampleId :  
SU-03-042419-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF042219.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 4 Phenanthrene, 4-methyl- Concentration Rank 3

| R.T.      | EstConc                 | Area   | Relative to ISTD | R.T.        |      |
|-----------|-------------------------|--------|------------------|-------------|------|
| 11.94     | 4.95 ng                 | 293364 | Phenanthrene-d10 | 11.42       |      |
| Hit# of 5 | Tentative ID            | MW     | MolForm          | CAS#        | Qual |
| 1         | Phenanthrene, 4-methyl- | 192    | C15H12           | 000832-64-4 | 97   |
| 2         | Phenanthrene, 2-methyl- | 192    | C15H12           | 002531-84-2 | 96   |
| 3         | Anthracene, 2-methyl-   | 192    | C15H12           | 000613-12-7 | 96   |
| 4         | Phenanthrene, 1-methyl- | 192    | C15H12           | 000832-69-9 | 96   |
| 5         | Anthracene, 1-methyl-   | 192    | C15H12           | 000610-48-0 | 93   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF042519\  
Data File : BF113997.D  
Acq On : 25 Apr 2019 23:58  
Operator : JU/SJ  
Sample : K2203-19 2X  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

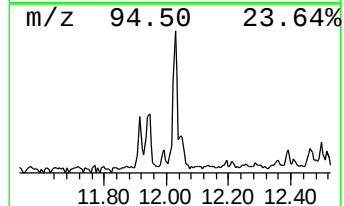
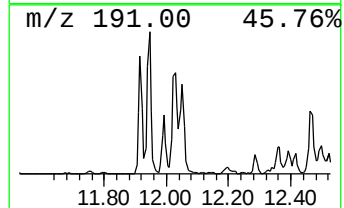
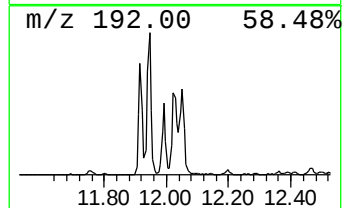
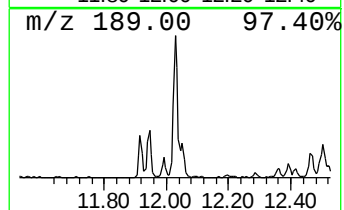
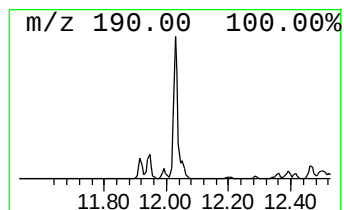
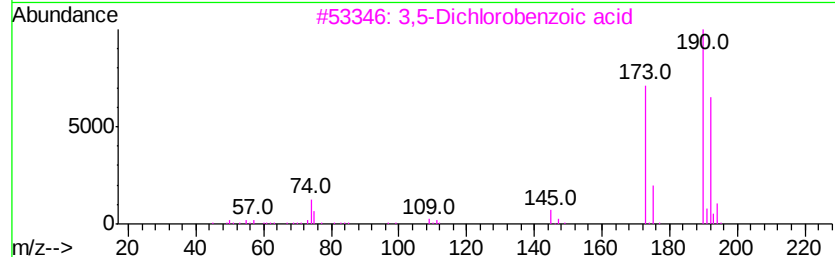
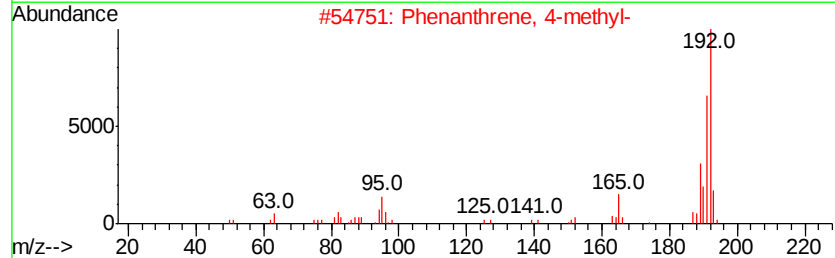
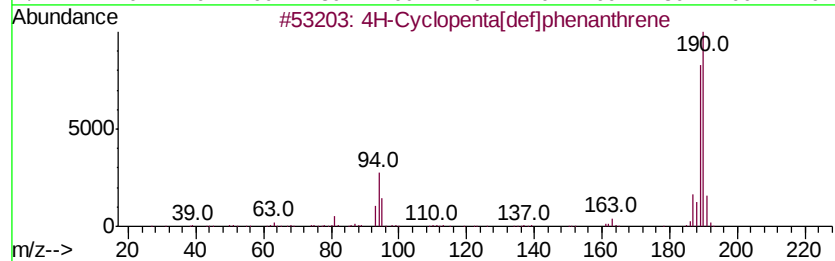
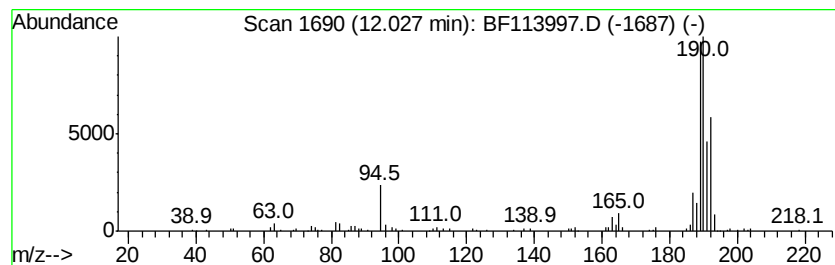
Instrument :  
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ClientSampleId :  
SU-03-042419-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF042219.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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

| R.T.      | EstConc                        | Area   | Relative to ISTD | R.T.        |      |
|-----------|--------------------------------|--------|------------------|-------------|------|
| 12.03     | 4.28 ng                        | 254002 | Phenanthrene-d10 | 11.42       |      |
| Hit# of 5 | Tentative ID                   | MW     | MolForm          | CAS#        | Qual |
| 1         | 4H-Cyclopenta[def]phenanthrene | 190    | C15H10           | 000203-64-5 | 70   |
| 2         | Phenanthrene, 4-methyl-        | 192    | C15H12           | 000832-64-4 | 35   |
| 3         | 3,5-Dichlorobenzoic acid       | 190    | C7H4Cl2O2        | 000051-36-5 | 30   |
| 4         | Anthracene, 2-methyl-          | 192    | C15H12           | 000613-12-7 | 25   |
| 5         | 5H-Dibenzo[a,d]cycloheptene    | 192    | C15H12           | 000256-81-5 | 25   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF042519\  
Data File : BF113997.D  
Acq On : 25 Apr 2019 23:58  
Operator : JU/SJ  
Sample : K2203-19 2X  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

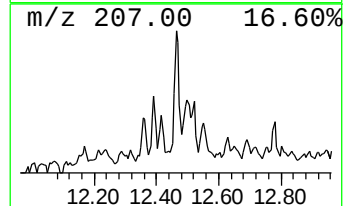
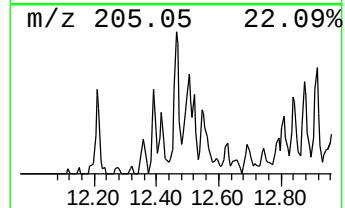
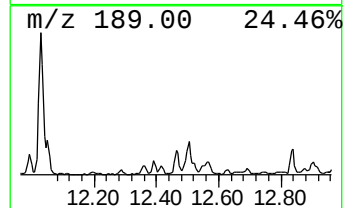
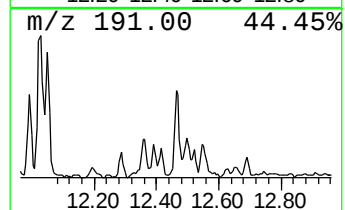
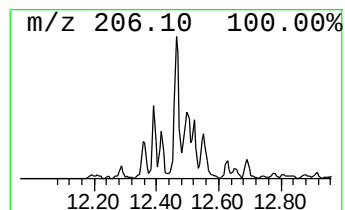
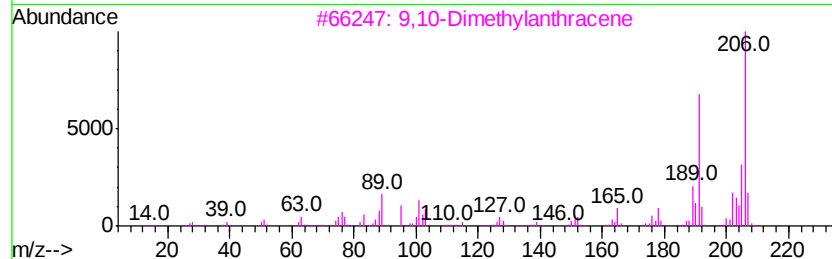
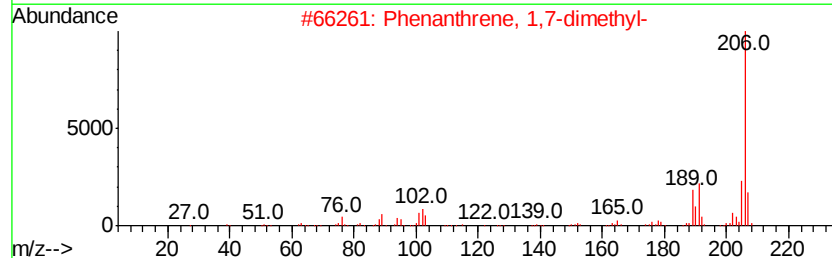
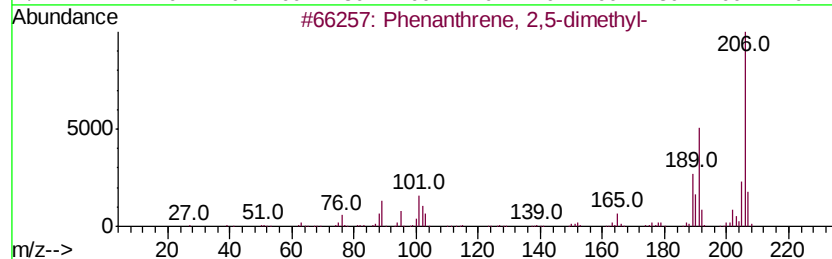
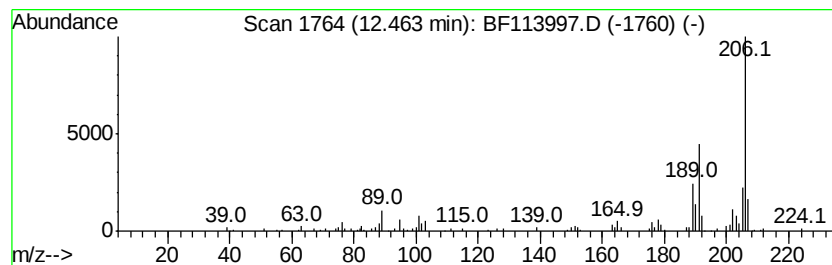
Instrument :  
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ClientSampleId :  
SU-03-042419-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF042219.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 6 Phenanthrene, 2,5-dimethyl- Concentration Rank 10

| R.T.      | EstConc                     | Area   | Relative to ISTD |             | R.T.  |
|-----------|-----------------------------|--------|------------------|-------------|-------|
| 12.46     | 2.25 ng                     | 133545 | Phenanthrene-d10 |             | 11.42 |
| Hit# of 5 | Tentative ID                | MW     | MolForm          | CAS#        | Qual  |
| 1         | Phenanthrene, 2,5-dimethyl- | 206    | C16H14           | 003674-66-6 | 93    |
| 2         | Phenanthrene, 1,7-dimethyl- | 206    | C16H14           | 000483-87-4 | 93    |
| 3         | 9,10-Dimethylanthracene     | 206    | C16H14           | 000781-43-1 | 93    |
| 4         | Phenanthrene, 2,3-dimethyl- | 206    | C16H14           | 003674-65-5 | 93    |
| 5         | Phenanthrene, 3,6-dimethyl- | 206    | C16H14           | 001576-67-6 | 91    |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF042519\  
Data File : BF113997.D  
Acq On : 25 Apr 2019 23:58  
Operator : JU/SJ  
Sample : K2203-19 2X  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleID :  
SU-03-042419-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF042219.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

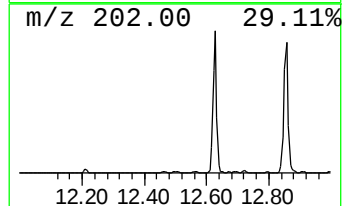
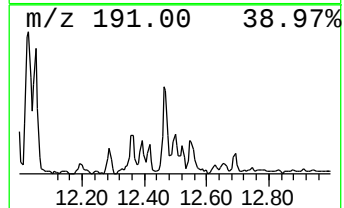
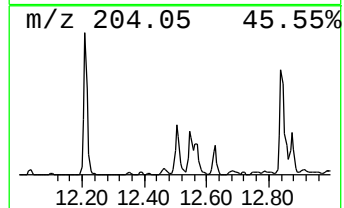
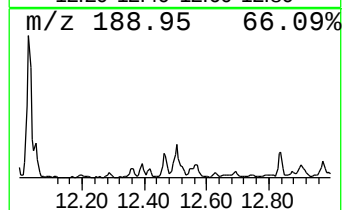
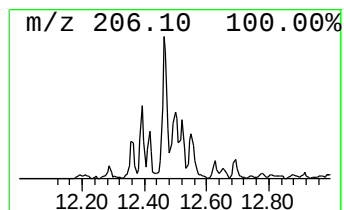
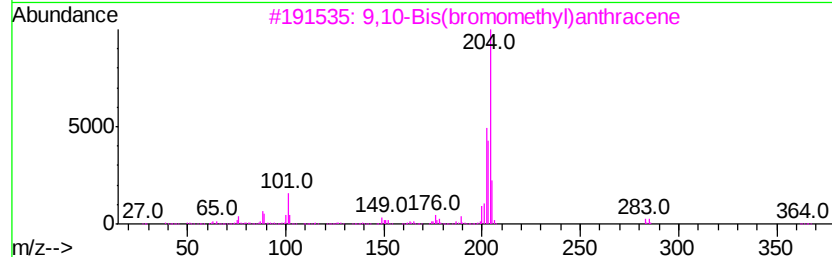
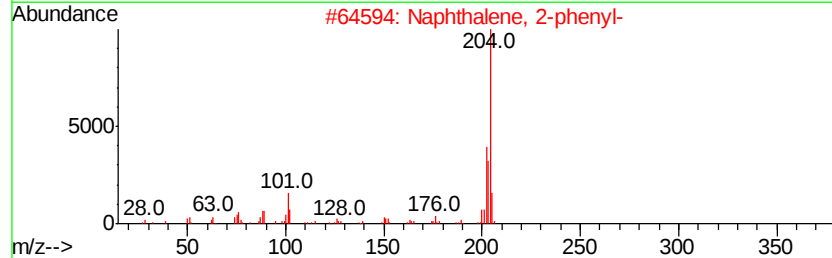
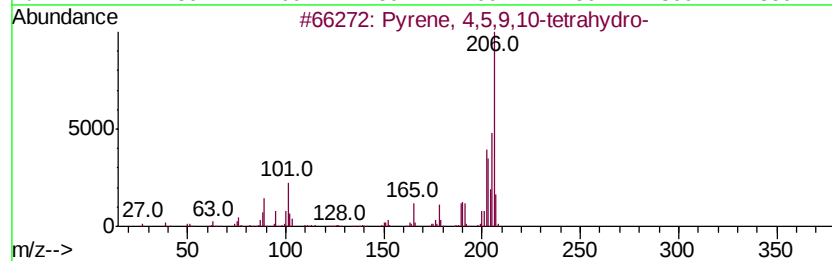
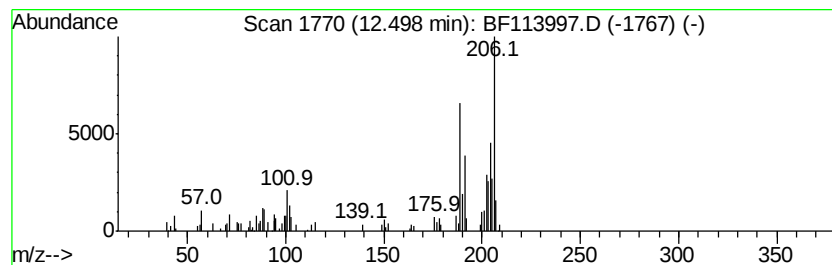
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 7 Pyrene, 4,5,9,10-tetrahydro- Concentration Rank 8

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 12.50 | 2.34 ng | 138902 | Phenanthrene-d10 | 11.42 |

| Hit# | of | Tentative ID                     | MW  | MolForm   | CAS#        | Qual |
|------|----|----------------------------------|-----|-----------|-------------|------|
| 1    | 5  | Pyrene, 4,5,9,10-tetrahydro-     | 206 | C16H14    | 000781-17-9 | 86   |
| 2    |    | Naphthalene, 2-phenyl-           | 204 | C16H12    | 000612-94-2 | 38   |
| 3    |    | 9,10-Bis(bromomethyl)anthracene  | 362 | C16H12Br2 | 034373-96-1 | 35   |
| 4    |    | Benzaldehyde, 4-(phenylethynyl)- | 206 | C15H10O   | 057341-98-7 | 35   |
| 5    |    | 4-(Trifluoromethoxy)benzoic acid | 206 | C8H5F3O3  | 000330-12-1 | 30   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF042519\  
Data File : BF113997.D  
Acq On : 25 Apr 2019 23:58  
Operator : JU/SJ  
Sample : K2203-19 2X  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

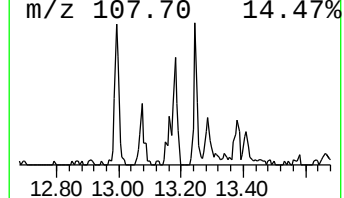
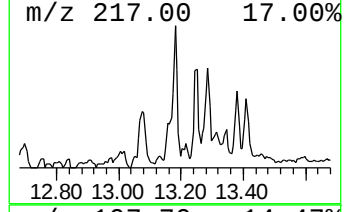
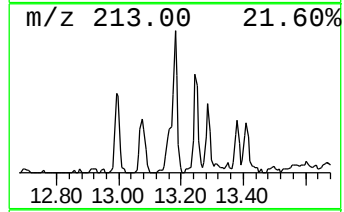
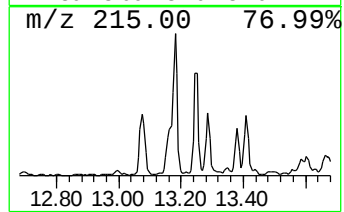
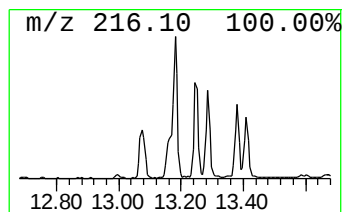
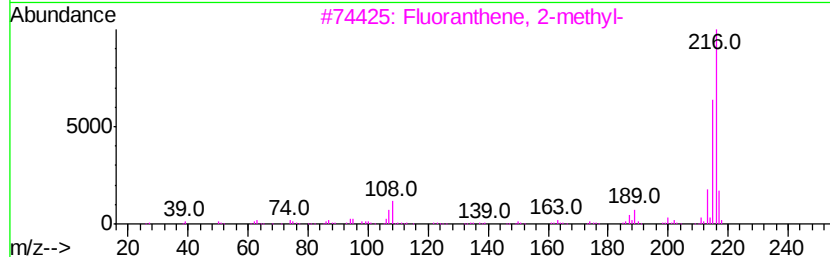
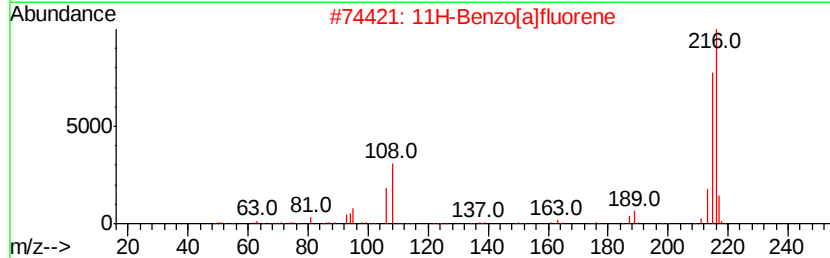
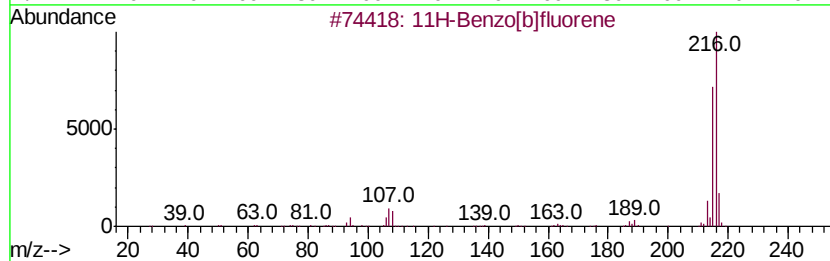
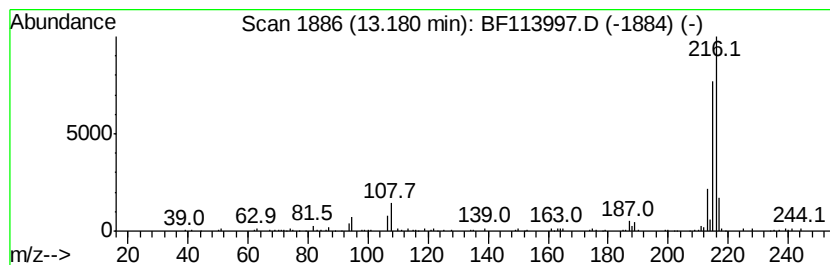
Instrument :  
BNA\_F  
ClientSampleId :  
SU-03-042419-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF042219.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 8 11H-Benzo[b]fluorene Concentration Rank 6

| R.T.    | EstConc | Area                    | Relative to ISTD | R.T.           |
|---------|---------|-------------------------|------------------|----------------|
| 13.18   | 2.40 ng | 177521                  | Chrysene-d12     | 14.05          |
| Hit# of | 5       | Tentative ID            | MW MolForm       | CAS# Qual      |
| 1       |         | 11H-Benzo[b]fluorene    | 216 C17H12       | 000243-17-4 93 |
| 2       |         | 11H-Benzo[a]fluorene    | 216 C17H12       | 000238-84-6 91 |
| 3       |         | Fluoranthene, 2-methyl- | 216 C17H12       | 033543-31-6 91 |
| 4       |         | Pvrene, 1-methyl-       | 216 C17H12       | 002381-21-7 90 |
| 5       |         | 7H-Benzo[c]fluorene     | 216 C17H12       | 000205-12-9 83 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF042519\  
Data File : BF113997.D  
Acq On : 25 Apr 2019 23:58  
Operator : JU/SJ  
Sample : K2203-19 2X  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SU-03-042419-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF042219.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

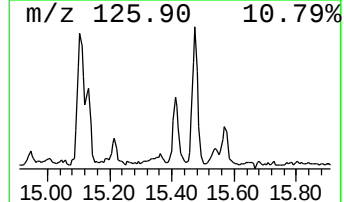
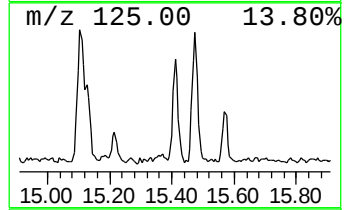
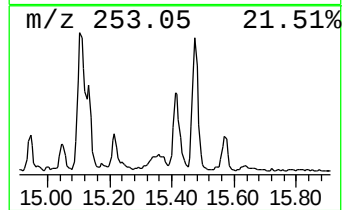
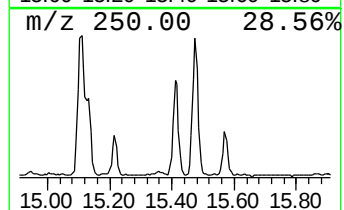
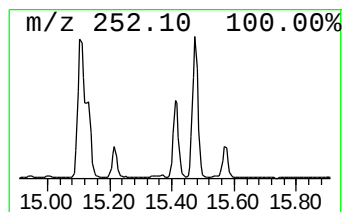
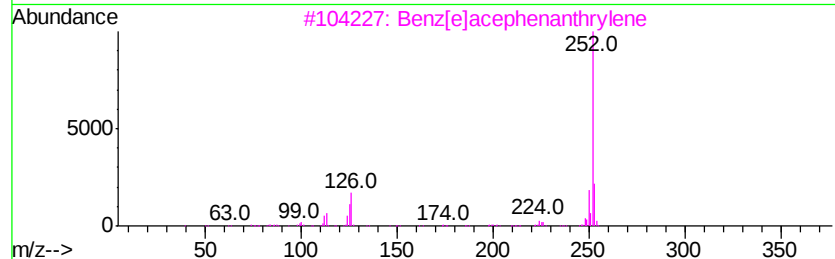
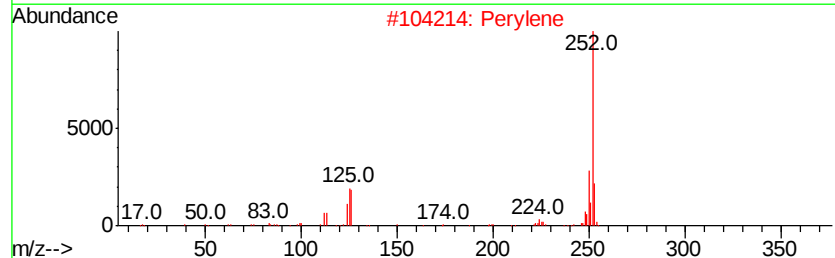
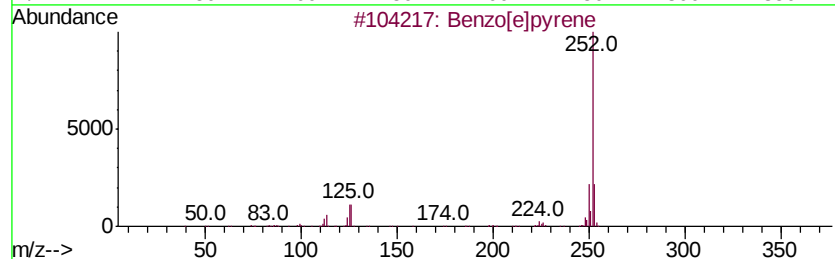
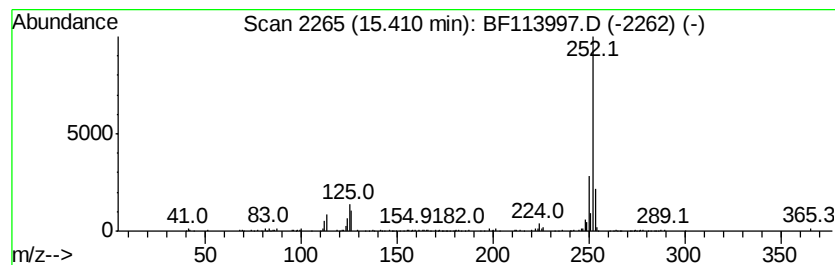
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 10 Benzo[e]pyrene Concentration Rank 5

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 15.41 | 3.58 ng | 178485 | Perylene-d12     | 15.54 |

| Hit# | of | 5 | Tentative ID              | MW  | MolForm | CAS#        | Qual |
|------|----|---|---------------------------|-----|---------|-------------|------|
| 1    |    |   | Benzo[e]pyrene            | 252 | C20H12  | 000192-97-2 | 98   |
| 2    |    |   | Perylene                  | 252 | C20H12  | 000198-55-0 | 95   |
| 3    |    |   | Benzo[e]acephenanthrylene | 252 | C20H12  | 000205-99-2 | 94   |
| 4    |    |   | Benzo[i]fluoranthene      | 252 | C20H12  | 000205-82-3 | 94   |
| 5    |    |   | Benzo[a]pyrene            | 252 | C20H12  | 000050-32-8 | 81   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF042519\  
Data File : BF113997.D  
Acq On : 25 Apr 2019 23:58  
Operator : JU/SJ  
Sample : K2203-19 2X  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SU-03-042419-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF042219.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
|                      |       |         |       |          | #                     | RT    | Resp    | Conc |
| unknown6.66          | 6.66  | 37.0    | ng    | 1086900  | 1                     | 6.89  | 587668  | 20.0 |
| Phenanthrene, 2-m... | 11.92 | 2.3     | ng    | 133806   | 4                     | 11.42 | 1185980 | 20.0 |
| Phenanthrene, 4-m... | 11.94 | 5.0     | ng    | 293364   | 4                     | 11.42 | 1185980 | 20.0 |
| 4H-Cyclopenta[def... | 12.03 | 4.3     | ng    | 254002   | 4                     | 11.42 | 1185980 | 20.0 |
| Phenanthrene, 2,5... | 12.46 | 2.3     | ng    | 133545   | 4                     | 11.42 | 1185980 | 20.0 |
| Pyrene, 4,5,9,10-... | 12.50 | 2.3     | ng    | 138902   | 4                     | 11.42 | 1185980 | 20.0 |
| 11H-Benzo[b]fluorene | 13.18 | 2.4     | ng    | 177521   | 5                     | 14.05 | 1476600 | 20.0 |
| Benzo[e]pyrene       | 15.41 | 3.6     | ng    | 178485   | 6                     | 15.54 | 996732  | 20.0 |