

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030420\  
 Data File : BF119203.D  
 Acq On : 4 Mar 2020 19:22  
 Operator : CG/JU  
 Sample : L1759-01 2X  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 OR-02-030320

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-BF022020.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         | 5.375       | 555           | 559         | 579          | rBV      | 1214273        | 1353900       | 75.22%          | 5.015%        |
| 2         | 6.398       | 729           | 733         | 756          | rBV      | 1273739        | 1310354       | 72.80%          | 4.854%        |
| 3         | 6.739       | 787           | 791         | 799          | rBV      | 999011         | 860450        | 47.80%          | 3.187%        |
| 4         | 6.892       | 813           | 817         | 828          | rBV      | 1373052        | 1250328       | 69.47%          | 4.631%        |
| 5         | 7.298       | 883           | 886         | 899          | rBV      | 864663         | 875222        | 48.63%          | 3.242%        |
| 6         | 8.022       | 1005          | 1009        | 1012         | rBV      | 1270959        | 1091755       | 60.66%          | 4.044%        |
| 7         | 8.733       | 1127          | 1130        | 1137         | rVB      | 22365          | 20844         | 1.16%           | 0.077%        |
| 8         | 8.833       | 1143          | 1147        | 1154         | rBV      | 32148          | 32177         | 1.79%           | 0.119%        |
| 9         | 9.092       | 1187          | 1191        | 1200         | rBV      | 2099357        | 1799931       | 100.00%         | 6.667%        |
| 10        | 9.363       | 1231          | 1237        | 1240         | rBV2     | 19655          | 26967         | 1.50%           | 0.100%        |
| 11        | 9.433       | 1245          | 1249        | 1251         | rVV      | 45696          | 44564         | 2.48%           | 0.165%        |
| 12        | 9.486       | 1255          | 1258        | 1265         | rVV2     | 108994         | 153389        | 8.52%           | 0.568%        |
| 13        | 9.551       | 1265          | 1269        | 1273         | rVB      | 21198          | 24925         | 1.38%           | 0.092%        |
| 14        | 9.633       | 1280          | 1283        | 1288         | rBV      | 196622         | 169605        | 9.42%           | 0.628%        |
| 15        | 9.745       | 1299          | 1302        | 1303         | rBV      | 33038          | 28958         | 1.61%           | 0.107%        |
| 16        | 9.774       | 1303          | 1307        | 1310         | rVV      | 1288394        | 1196385       | 66.47%          | 4.432%        |
| 17        | 9.804       | 1310          | 1312        | 1316         | rVB      | 68642          | 64951         | 3.61%           | 0.241%        |
| 18        | 9.892       | 1321          | 1327        | 1330         | rBV2     | 32230          | 41121         | 2.28%           | 0.152%        |
| 19        | 9.927       | 1330          | 1333        | 1338         | rVV      | 32095          | 34594         | 1.92%           | 0.128%        |
| 20        | 9.974       | 1338          | 1341        | 1346         | rVV2     | 36175          | 44681         | 2.48%           | 0.166%        |
| 21        | 10.016      | 1346          | 1348        | 1352         | rVB      | 31049          | 25352         | 1.41%           | 0.094%        |
| 22        | 10.086      | 1357          | 1360        | 1364         | rBV2     | 45304          | 55434         | 3.08%           | 0.205%        |
| 23        | 10.174      | 1372          | 1375        | 1378         | rBV2     | 24736          | 36800         | 2.04%           | 0.136%        |
| 24        | 10.227      | 1382          | 1384        | 1387         | rVV      | 35415          | 27051         | 1.50%           | 0.100%        |
| 25        | 10.322      | 1397          | 1400        | 1406         | rVB2     | 64009          | 83705         | 4.65%           | 0.310%        |
| 26        | 10.386      | 1406          | 1411        | 1413         | rBV3     | 16826          | 22538         | 1.25%           | 0.083%        |
| 27        | 10.427      | 1416          | 1418        | 1422         | rVV2     | 30100          | 28308         | 1.57%           | 0.105%        |
| 28        | 10.480      | 1422          | 1427        | 1430         | rVV5     | 16917          | 22156         | 1.23%           | 0.082%        |
| 29        | 10.563      | 1438          | 1441        | 1451         | rVB      | 923377         | 869553        | 48.31%          | 3.221%        |
| 30        | 10.686      | 1457          | 1462        | 1467         | rVB4     | 52534          | 75131         | 4.17%           | 0.278%        |
| 31        | 10.869      | 1489          | 1493        | 1495         | rBV2     | 42612          | 52291         | 2.91%           | 0.194%        |
| 32        | 10.898      | 1495          | 1498        | 1501         | rVV      | 33965          | 34100         | 1.89%           | 0.126%        |
| 33        | 10.951      | 1504          | 1507        | 1510         | rVB      | 26838          | 26879         | 1.49%           | 0.100%        |
| 34        | 10.998      | 1510          | 1515        | 1517         | rBV5     | 24613          | 35861         | 1.99%           | 0.133%        |

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Instrument :  
 BNA\_F  
 ClientSampleId :  
 OR-02-030320

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-BF022020.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 35 | 11.021 | 1517 | 1519 | 1524 | rVV  | 28845   | 31465   | 1.75%  | 0.117% |
| 36 | 11.069 | 1524 | 1527 | 1529 | rVB2 | 23688   | 21854   | 1.21%  | 0.081% |
| 37 | 11.157 | 1539 | 1542 | 1546 | rVB  | 54803   | 63964   | 3.55%  | 0.237% |
| 38 | 11.257 | 1555 | 1559 | 1561 | rBV  | 1115504 | 980564  | 54.48% | 3.632% |
| 39 | 11.280 | 1561 | 1563 | 1567 | rVV  | 494182  | 412406  | 22.91% | 1.528% |
| 40 | 11.333 | 1569 | 1572 | 1575 | rVV  | 195480  | 161689  | 8.98%  | 0.599% |
| 41 | 11.374 | 1575 | 1579 | 1581 | rVV3 | 34313   | 41516   | 2.31%  | 0.154% |
| 42 | 11.492 | 1596 | 1599 | 1604 | rBV2 | 43879   | 69140   | 3.84%  | 0.256% |
| 43 | 11.545 | 1606 | 1608 | 1611 | rVV  | 54381   | 53743   | 2.99%  | 0.199% |
| 44 | 11.586 | 1611 | 1615 | 1621 | rVV2 | 47532   | 58569   | 3.25%  | 0.217% |
| 45 | 11.674 | 1627 | 1630 | 1633 | rVB  | 34016   | 34187   | 1.90%  | 0.127% |
| 46 | 11.716 | 1634 | 1637 | 1641 | rBV4 | 21666   | 25486   | 1.42%  | 0.094% |
| 47 | 11.757 | 1641 | 1644 | 1647 | rVV  | 169243  | 159830  | 8.88%  | 0.592% |
| 48 | 11.786 | 1647 | 1649 | 1654 | rVV  | 298042  | 275720  | 15.32% | 1.021% |
| 49 | 11.833 | 1654 | 1657 | 1660 | rVV  | 97762   | 105330  | 5.85%  | 0.390% |
| 50 | 11.868 | 1660 | 1663 | 1666 | rVV  | 269620  | 310910  | 17.27% | 1.152% |
| 51 | 11.892 | 1666 | 1667 | 1672 | rVB  | 137381  | 92133   | 5.12%  | 0.341% |
| 52 | 11.957 | 1672 | 1678 | 1681 | rBV4 | 28796   | 51166   | 2.84%  | 0.190% |
| 53 | 11.992 | 1681 | 1684 | 1687 | rVV  | 38649   | 34071   | 1.89%  | 0.126% |
| 54 | 12.051 | 1691 | 1694 | 1697 | rVV2 | 97439   | 108898  | 6.05%  | 0.403% |
| 55 | 12.086 | 1698 | 1700 | 1704 | rVB3 | 53615   | 56164   | 3.12%  | 0.208% |
| 56 | 12.186 | 1714 | 1717 | 1718 | rBV2 | 31752   | 34103   | 1.89%  | 0.126% |
| 57 | 12.204 | 1718 | 1720 | 1722 | rVV  | 53726   | 48990   | 2.72%  | 0.181% |
| 58 | 12.233 | 1722 | 1725 | 1727 | rVV  | 89174   | 77882   | 4.33%  | 0.288% |
| 59 | 12.263 | 1727 | 1730 | 1734 | rVB3 | 56295   | 72441   | 4.02%  | 0.268% |
| 60 | 12.310 | 1734 | 1738 | 1740 | rBV  | 213271  | 223226  | 12.40% | 0.827% |
| 61 | 12.345 | 1740 | 1744 | 1746 | rVV2 | 120181  | 145497  | 8.08%  | 0.539% |
| 62 | 12.404 | 1750 | 1754 | 1757 | rBV3 | 93461   | 134208  | 7.46%  | 0.497% |
| 63 | 12.468 | 1762 | 1765 | 1769 | rBV  | 982540  | 889500  | 49.42% | 3.295% |
| 64 | 12.510 | 1770 | 1772 | 1774 | rBV  | 39986   | 30326   | 1.68%  | 0.112% |
| 65 | 12.533 | 1774 | 1776 | 1778 | rVB  | 45285   | 34429   | 1.91%  | 0.128% |
| 66 | 12.568 | 1779 | 1782 | 1788 | rBV  | 99323   | 111858  | 6.21%  | 0.414% |
| 67 | 12.621 | 1788 | 1791 | 1793 | rBV3 | 54334   | 58571   | 3.25%  | 0.217% |
| 68 | 12.698 | 1798 | 1804 | 1811 | rBV  | 1094126 | 1179791 | 65.55% | 4.370% |
| 69 | 12.757 | 1811 | 1814 | 1817 | rVB2 | 106740  | 104893  | 5.83%  | 0.389% |
| 70 | 12.833 | 1817 | 1827 | 1830 | rBV  | 1369767 | 1419205 | 78.85% | 5.257% |
| 71 | 12.857 | 1830 | 1831 | 1836 | rVB2 | 69076   | 71116   | 3.95%  | 0.263% |

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 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 OR-02-030320

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-BF022020.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|     |        |      |      |      |      |         |         |        |        |
|-----|--------|------|------|------|------|---------|---------|--------|--------|
| 72  | 12.915 | 1837 | 1841 | 1848 | rBV5 | 133795  | 235444  | 13.08% | 0.872% |
| 73  | 12.974 | 1848 | 1851 | 1853 | rBV  | 45411   | 41529   | 2.31%  | 0.154% |
| 74  | 13.010 | 1853 | 1857 | 1858 | rBV2 | 125476  | 164849  | 9.16%  | 0.611% |
| 75  | 13.027 | 1858 | 1860 | 1863 | rVB  | 210808  | 178380  | 9.91%  | 0.661% |
| 76  | 13.068 | 1865 | 1867 | 1869 | rBV2 | 30094   | 28230   | 1.57%  | 0.105% |
| 77  | 13.092 | 1869 | 1871 | 1874 | rVV  | 140993  | 115115  | 6.40%  | 0.426% |
| 78  | 13.133 | 1874 | 1878 | 1885 | rVB2 | 191418  | 210437  | 11.69% | 0.779% |
| 79  | 13.221 | 1891 | 1893 | 1896 | rBV  | 136647  | 125436  | 6.97%  | 0.465% |
| 80  | 13.257 | 1896 | 1899 | 1902 | rVB  | 138553  | 129108  | 7.17%  | 0.478% |
| 81  | 13.515 | 1940 | 1943 | 1944 | rBV3 | 41467   | 42064   | 2.34%  | 0.156% |
| 82  | 13.539 | 1945 | 1947 | 1951 | rVB2 | 99070   | 95160   | 5.29%  | 0.352% |
| 83  | 13.598 | 1954 | 1957 | 1960 | rBV  | 70949   | 59614   | 3.31%  | 0.221% |
| 84  | 13.645 | 1961 | 1965 | 1968 | rBV2 | 132789  | 191601  | 10.64% | 0.710% |
| 85  | 13.698 | 1972 | 1974 | 1976 | rBV  | 88469   | 86230   | 4.79%  | 0.319% |
| 86  | 13.751 | 1978 | 1983 | 1986 | rVB3 | 105777  | 189946  | 10.55% | 0.704% |
| 87  | 13.898 | 2003 | 2008 | 2010 | rBV2 | 1125757 | 1512731 | 84.04% | 5.603% |
| 88  | 13.921 | 2010 | 2012 | 2020 | rVB  | 588164  | 565952  | 31.44% | 2.096% |
| 89  | 14.004 | 2024 | 2026 | 2028 | rVB  | 86395   | 63893   | 3.55%  | 0.237% |
| 90  | 14.051 | 2032 | 2034 | 2039 | rBV3 | 88309   | 115658  | 6.43%  | 0.428% |
| 91  | 14.245 | 2065 | 2067 | 2069 | rBV2 | 67689   | 61355   | 3.41%  | 0.227% |
| 92  | 14.286 | 2071 | 2074 | 2076 | rVB  | 176975  | 166717  | 9.26%  | 0.618% |
| 93  | 14.321 | 2077 | 2080 | 2082 | rBV  | 83065   | 67418   | 3.75%  | 0.250% |
| 94  | 14.362 | 2084 | 2087 | 2088 | rBV3 | 87893   | 97549   | 5.42%  | 0.361% |
| 95  | 14.409 | 2093 | 2095 | 2097 | rBV  | 89566   | 78711   | 4.37%  | 0.292% |
| 96  | 14.921 | 2179 | 2182 | 2189 | rBV  | 494123  | 874805  | 48.60% | 3.240% |
| 97  | 15.027 | 2198 | 2200 | 2205 | rVB  | 113498  | 125167  | 6.95%  | 0.464% |
| 98  | 15.209 | 2228 | 2231 | 2237 | rVB  | 328239  | 421845  | 23.44% | 1.563% |
| 99  | 15.274 | 2238 | 2242 | 2247 | rBV  | 477257  | 612416  | 34.02% | 2.268% |
| 100 | 15.333 | 2248 | 2252 | 2255 | rBV  | 584430  | 734307  | 40.80% | 2.720% |

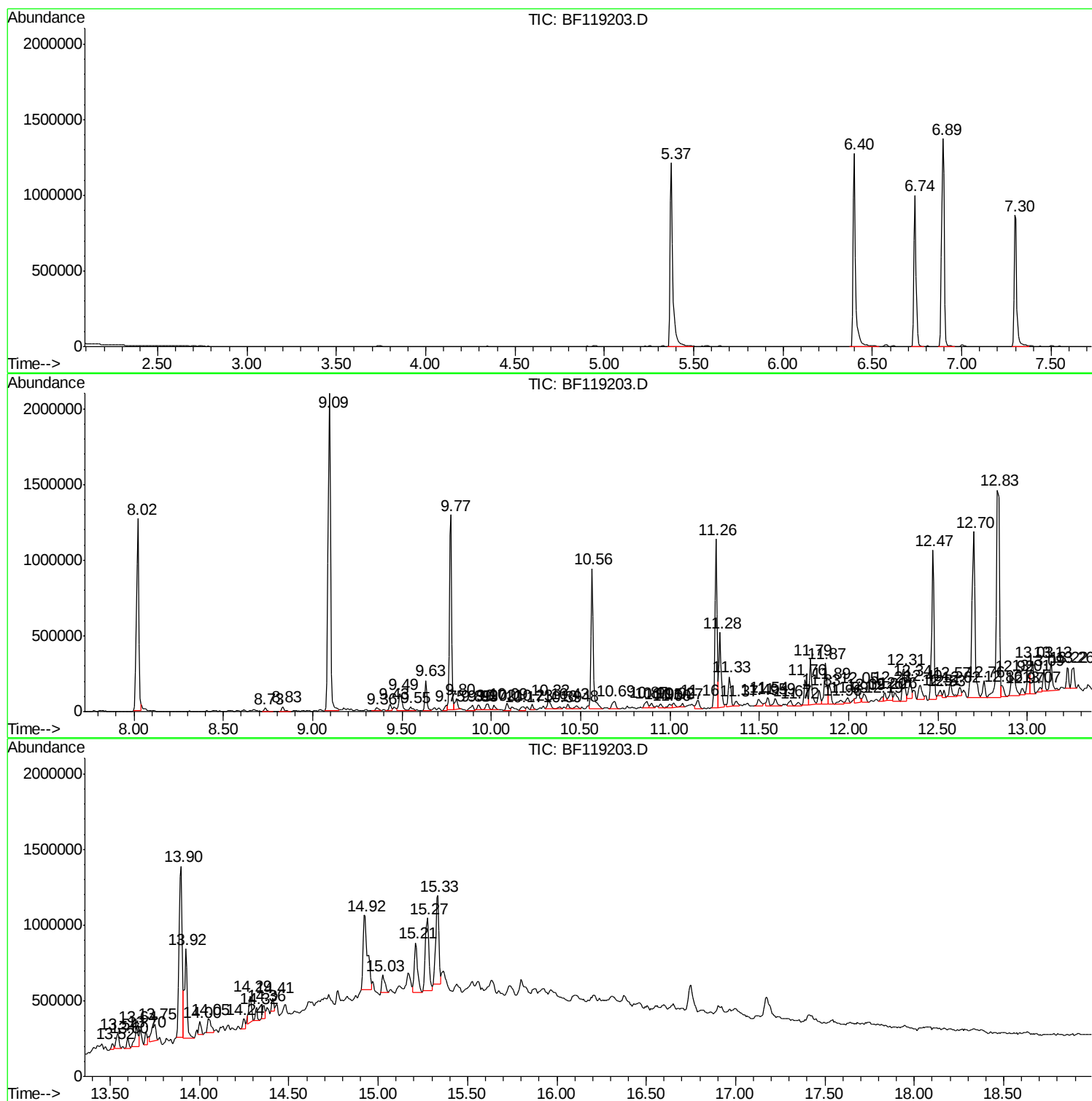
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Instrument :  
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ClientSampleId :  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022020.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030420\  
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ALS Vial : 18 Sample Multiplier: 1

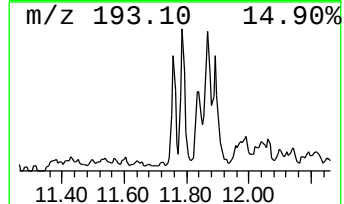
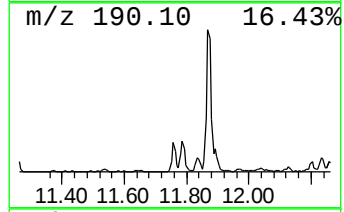
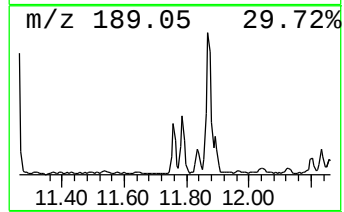
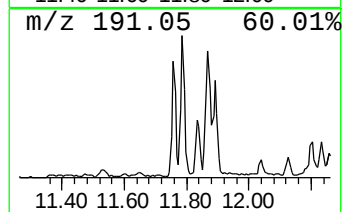
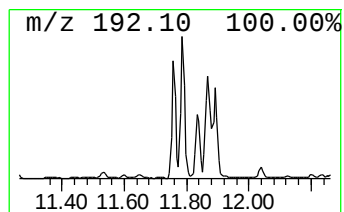
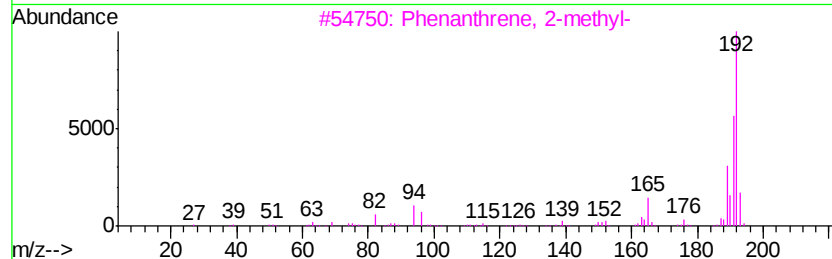
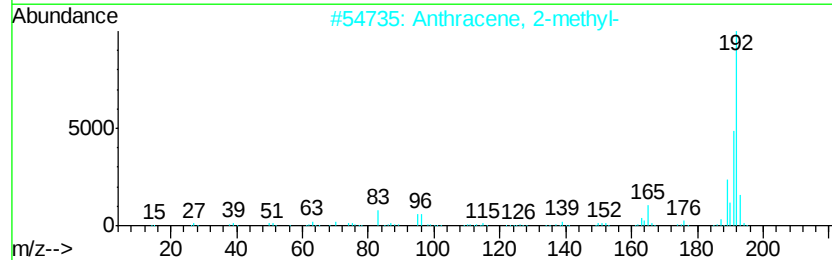
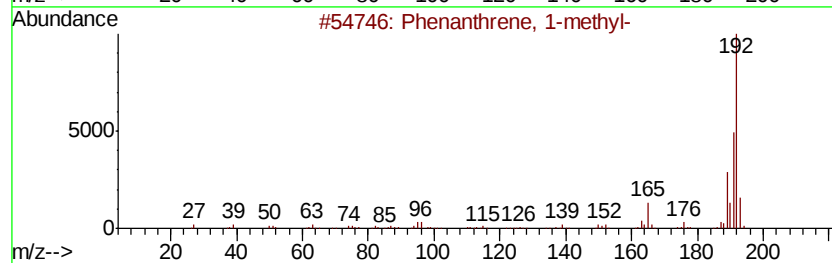
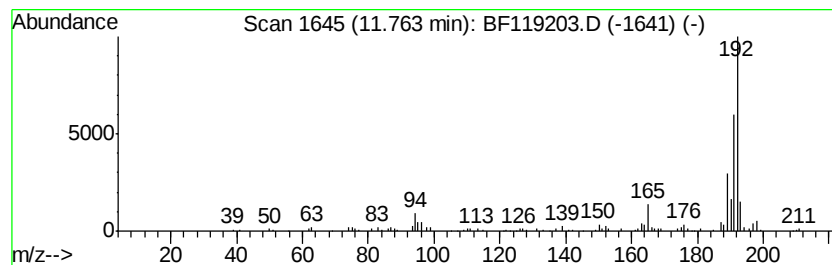
Instrument :  
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ClientSampleId :  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022020.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 2 Phenanthrene, 1-methyl- Concentration Rank 7

| R.T.      | EstConc                 | Area   | Relative to ISTD |             | R.T.  |
|-----------|-------------------------|--------|------------------|-------------|-------|
| 11.76     | 3.26 ng                 | 159830 | Phenanthrene-d10 |             | 11.26 |
| Hit# of 5 | Tentative ID            | MW     | MolForm          | CAS#        | Qual  |
| 1         | Phenanthrene, 1-methyl- | 192    | C15H12           | 000832-69-9 | 97    |
| 2         | Anthracene, 2-methyl-   | 192    | C15H12           | 000613-12-7 | 97    |
| 3         | Phenanthrene, 2-methyl- | 192    | C15H12           | 002531-84-2 | 97    |
| 4         | 1H-Indene, 2-phenyl-    | 192    | C15H12           | 004505-48-0 | 94    |
| 5         | Anthracene, 1-methyl-   | 192    | C15H12           | 000610-48-0 | 94    |



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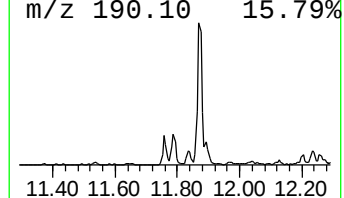
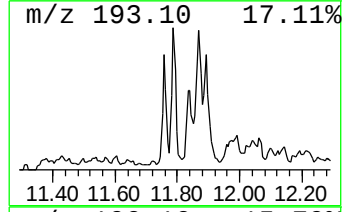
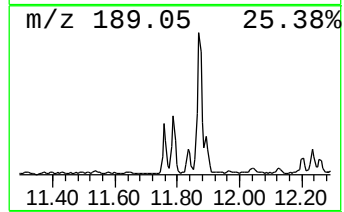
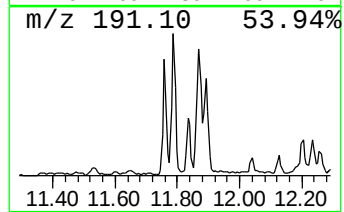
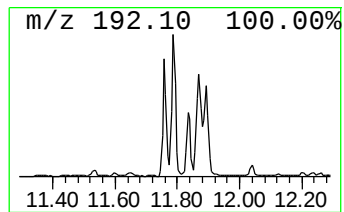
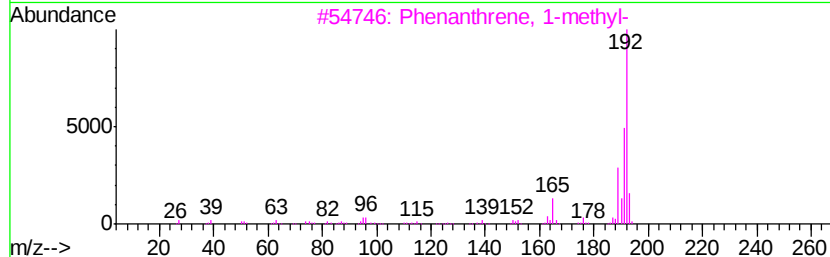
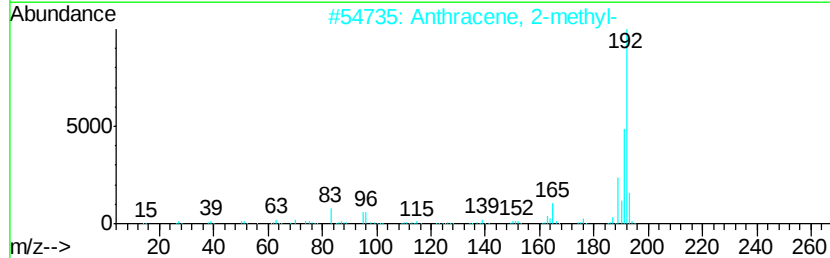
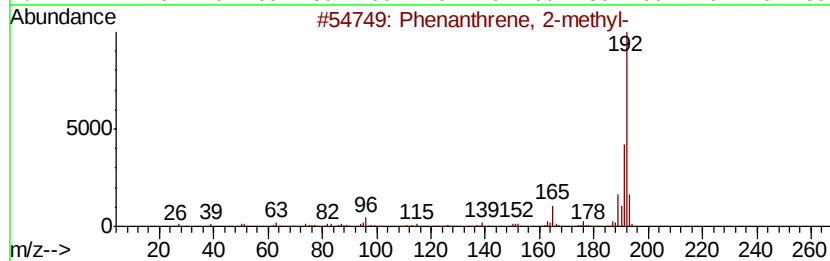
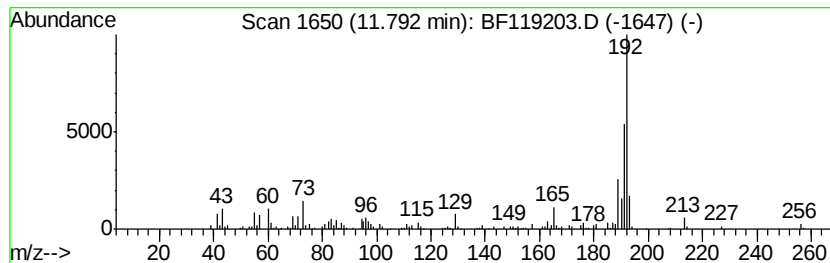
Instrument :  
BNA\_F  
ClientSampleId :  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022020.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 3 Phenanthrene, 2-methyl- Concentration Rank 4

| R.T.      | EstConc                               | Area   | Relative to ISTD | R.T.        |      |
|-----------|---------------------------------------|--------|------------------|-------------|------|
| 11.79     | 5.62 ng                               | 275720 | Phenanthrene-d10 | 11.26       |      |
| Hit# of 5 | Tentative ID                          | MW     | MolForm          | CAS#        | Qual |
| 1         | Phenanthrene, 2-methyl-               | 192    | C15H12           | 002531-84-2 | 97   |
| 2         | Anthracene, 2-methyl-                 | 192    | C15H12           | 000613-12-7 | 97   |
| 3         | Phenanthrene, 1-methyl-               | 192    | C15H12           | 000832-69-9 | 97   |
| 4         | 1H-Cyclopropa[1,1]phenanthrene,1a,... | 192    | C15H12           | 000949-41-7 | 96   |
| 5         | Phenanthrene, 4-methyl-               | 192    | C15H12           | 000832-64-4 | 95   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030420\  
Data File : BF119203.D  
Acq On : 4 Mar 2020 19:22  
Operator : CG/JU  
Sample : L1759-01 2X  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OR-02-030320

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022020.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

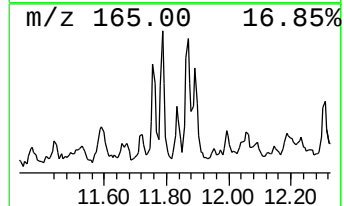
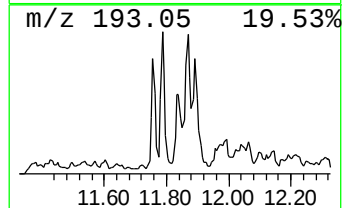
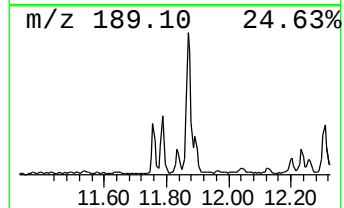
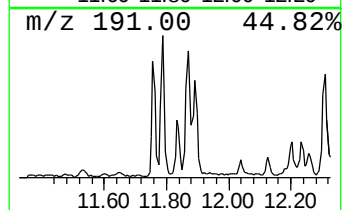
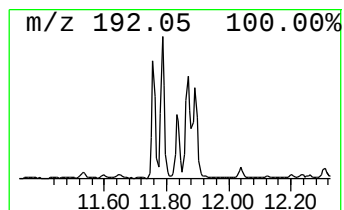
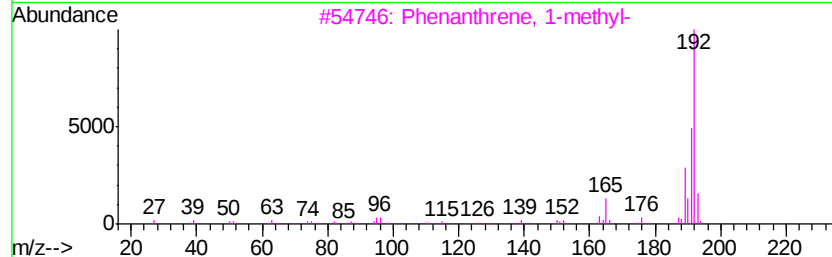
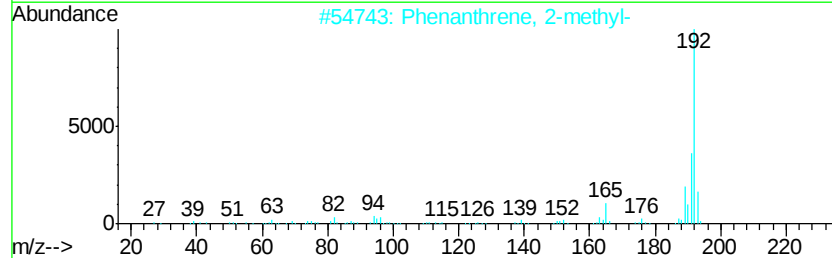
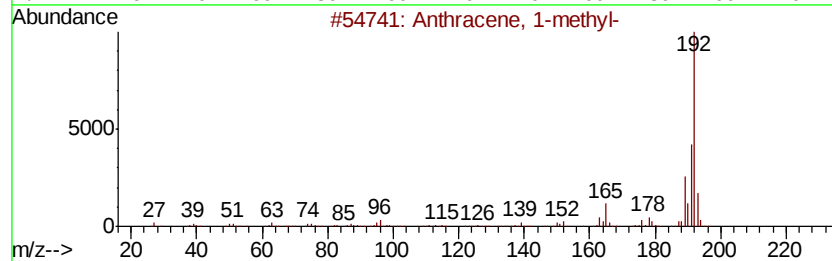
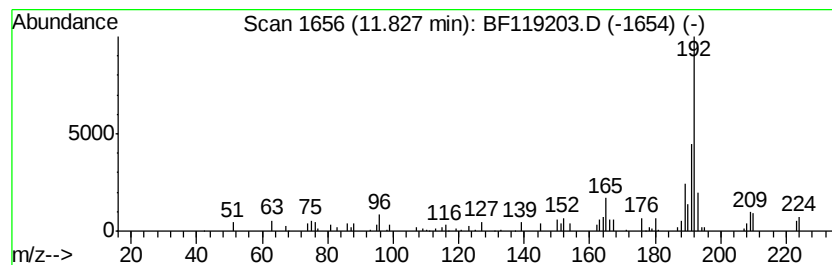
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TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 Anthracene, 1-methyl- Concentration Rank 19

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 11.83 | 2.15 ng | 105330 | Phenanthrene-d10 | 11.26 |

| Hit# | of | 5 | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------|-----|---------|-------------|------|
| 1    |    |   | Anthracene, 1-methyl-   | 192 | C15H12  | 000610-48-0 | 96   |
| 2    |    |   | Phenanthrene, 2-methyl- | 192 | C15H12  | 002531-84-2 | 96   |
| 3    |    |   | Phenanthrene, 1-methyl- | 192 | C15H12  | 000832-69-9 | 96   |
| 4    |    |   | 1H-Indene, 2-phenyl-    | 192 | C15H12  | 004505-48-0 | 95   |
| 5    |    |   | Anthracene, 9-methyl-   | 192 | C15H12  | 000779-02-2 | 94   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030420\  
Data File : BF119203.D  
Acq On : 4 Mar 2020 19:22  
Operator : CG/JU  
Sample : L1759-01 2X  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

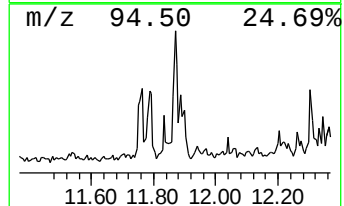
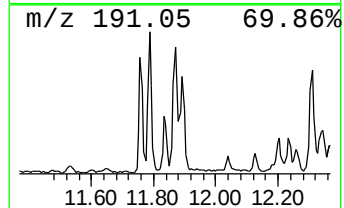
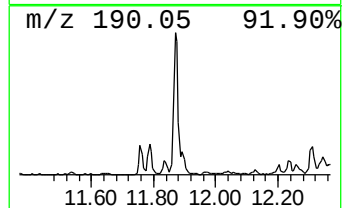
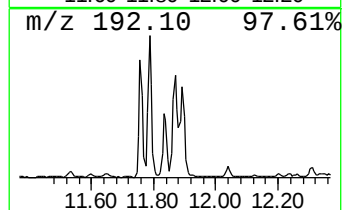
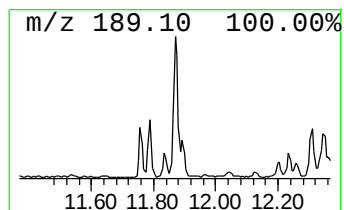
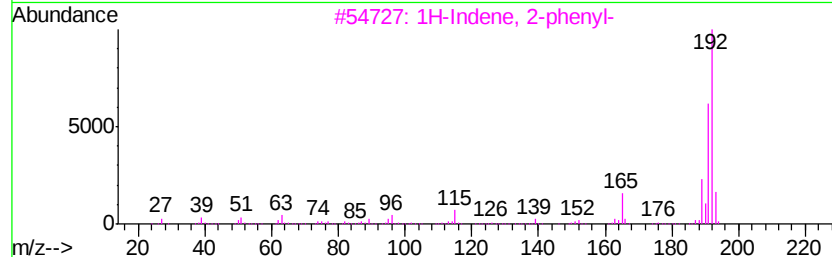
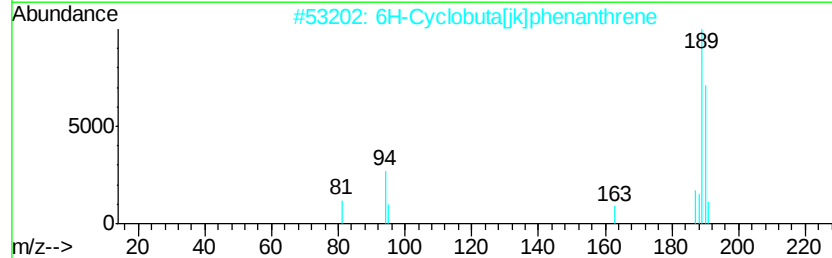
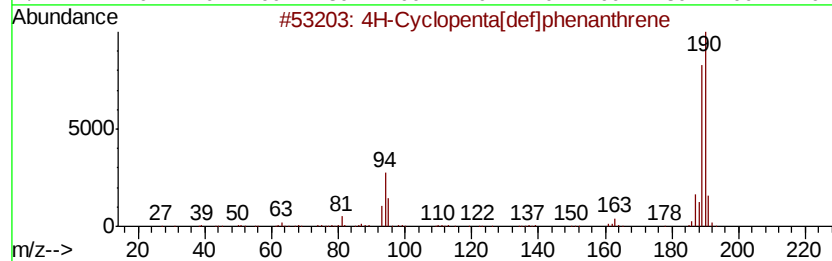
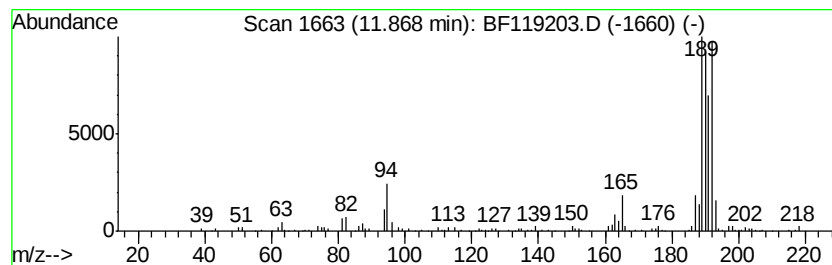
Instrument :  
BNA\_F  
ClientSampleId :  
OR-02-030320

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022020.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 3

| R.T.      | EstConc                        | Area   | Relative to ISTD |             | R.T.  |
|-----------|--------------------------------|--------|------------------|-------------|-------|
| 11.87     | 6.34 ng                        | 310910 | Phenanthrene-d10 |             | 11.26 |
| Hit# of 5 | Tentative ID                   | MW     | MolForm          | CAS#        | Qual  |
| 1         | 4H-Cyclopenta[def]phenanthrene | 190    | C15H10           | 000203-64-5 | 53    |
| 2         | 6H-Cyclobuta[ik]phenanthrene   | 190    | C15H10           | 083469-43-6 | 49    |
| 3         | 1H-Indene, 2-phenyl-           | 192    | C15H12           | 004505-48-0 | 42    |
| 4         | Phenanthrene, 4-methyl-        | 192    | C15H12           | 000832-64-4 | 42    |
| 5         | Naphtho[2,3-b]norbornadiene    | 192    | C15H12           | 107426-38-0 | 41    |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030420\  
Data File : BF119203.D  
Acq On : 4 Mar 2020 19:22  
Operator : CG/JU  
Sample : L1759-01 2X  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

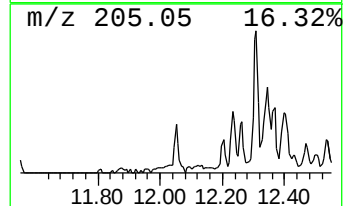
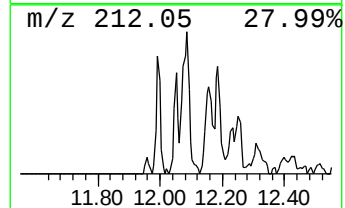
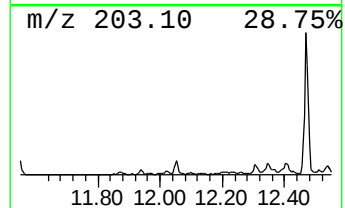
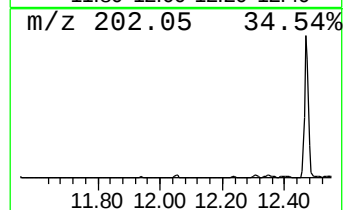
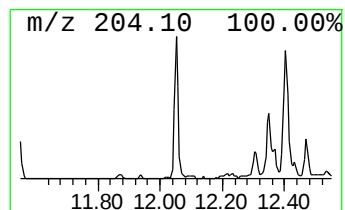
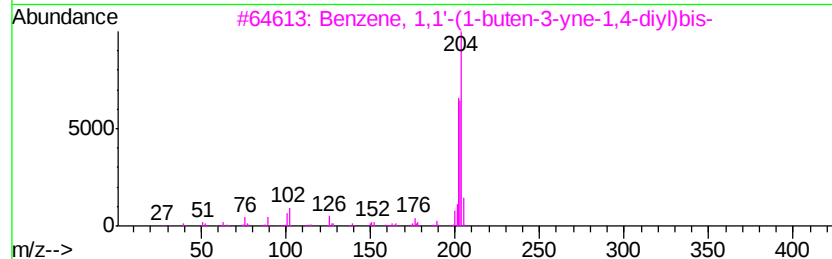
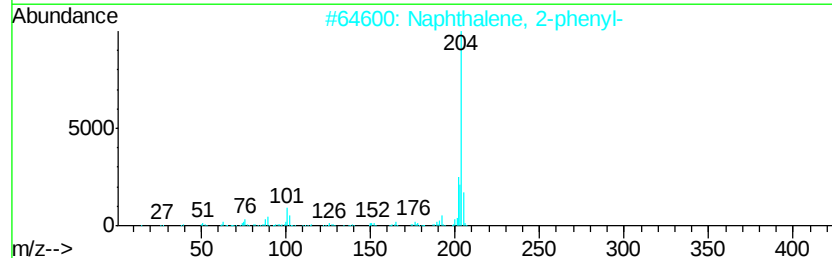
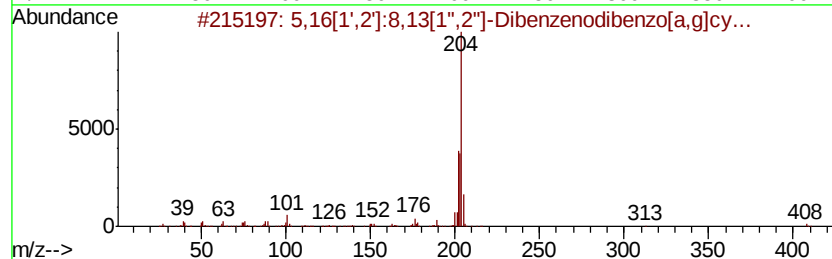
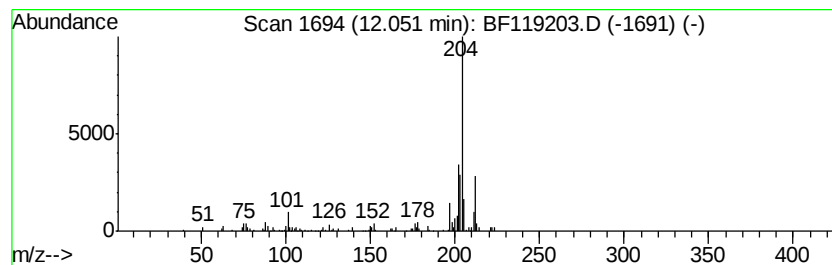
Instrument :  
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ClientSampleId :  
OR-02-030320

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022020.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 6 5,16[1',2']:8,13[1'',2'']-D... Concentration Rank 16

| R.T.    | EstConc                             | Area         | Relative to ISTD | R.T.    |             |      |
|---------|-------------------------------------|--------------|------------------|---------|-------------|------|
| 12.05   | 2.22 ng                             | 108898       | Phenanthrene-d10 | 11.26   |             |      |
| Hit# of | 5                                   | Tentative ID | MW               | MolForm | CAS#        | Qual |
| 1       | 5,16[1',2']:8,13[1'',2'']-Dibenz... | 408          | C32H24           |         | 005672-97-9 | 62   |
| 2       | Naphthalene, 2-phenyl-              | 204          | C16H12           |         | 000612-94-2 | 60   |
| 3       | Benzene, 1,1'-(1-buten-3-yne-1,4... | 204          | C16H12           |         | 013141-45-2 | 50   |
| 4       | Acephenanthrylene, 4,5-dihydro-     | 204          | C16H12           |         | 006232-48-0 | 50   |
| 5       | Tricyclo[8.2.2.2(4,7)]hexadeca-2... | 204          | C16H12           |         | 006572-60-7 | 49   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030420\  
Data File : BF119203.D  
Acq On : 4 Mar 2020 19:22  
Operator : CG/JU  
Sample : L1759-01 2X  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

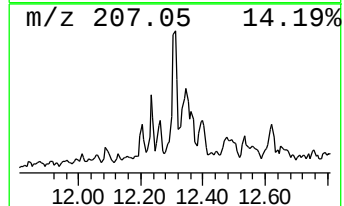
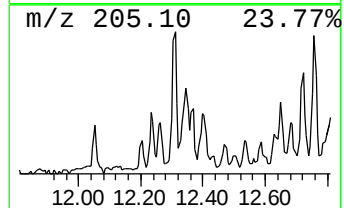
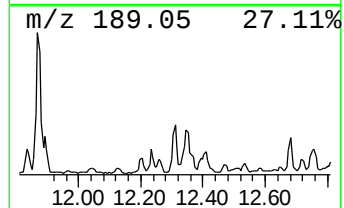
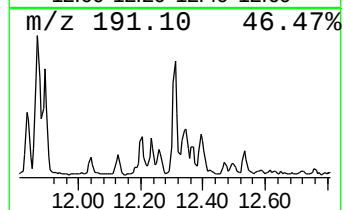
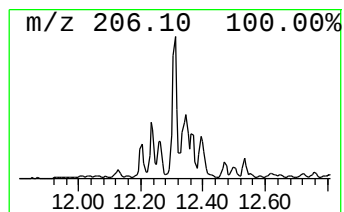
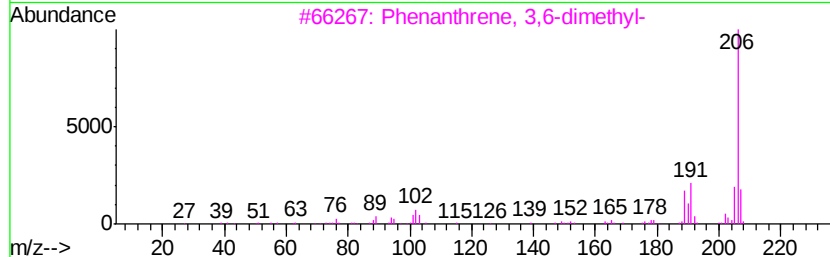
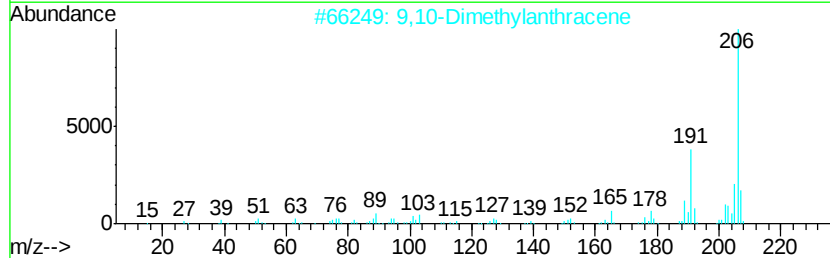
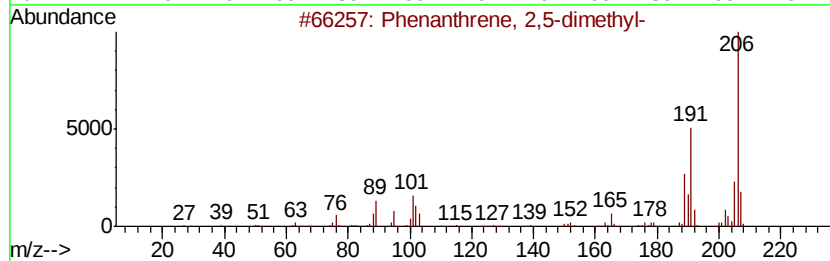
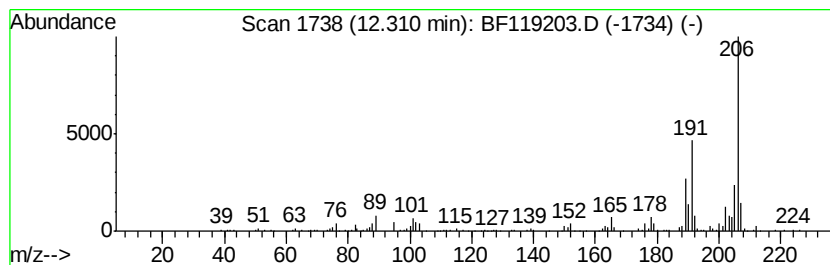
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ClientSampleId :  
OR-02-030320

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022020.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 7 Phenanthrene, 2,5-dimethyl- Concentration Rank 5

| R.T.      | EstConc                     | Area   | Relative to ISTD |             | R.T.  |
|-----------|-----------------------------|--------|------------------|-------------|-------|
| 12.31     | 4.55 ng                     | 223226 | Phenanthrene-d10 |             | 11.26 |
| Hit# of 5 | Tentative ID                | MW     | MolForm          | CAS#        | Qual  |
| 1         | Phenanthrene, 2,5-dimethyl- | 206    | C16H14           | 003674-66-6 | 97    |
| 2         | 9,10-Dimethylantracene      | 206    | C16H14           | 000781-43-1 | 96    |
| 3         | Phenanthrene, 3,6-dimethyl- | 206    | C16H14           | 001576-67-6 | 87    |
| 4         | Anthracene, 1,4-dimethyl-   | 206    | C16H14           | 000781-92-0 | 86    |
| 5         | Phenanthrene, 2,3-dimethyl- | 206    | C16H14           | 003674-65-5 | 81    |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030420\  
Data File : BF119203.D  
Acq On : 4 Mar 2020 19:22  
Operator : CG/JU  
Sample : L1759-01 2X  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

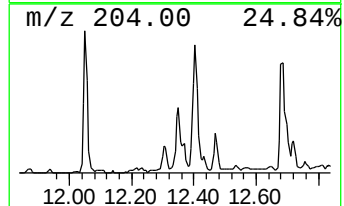
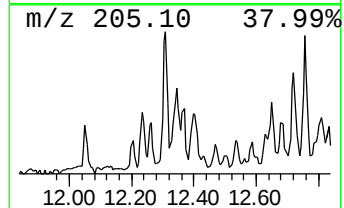
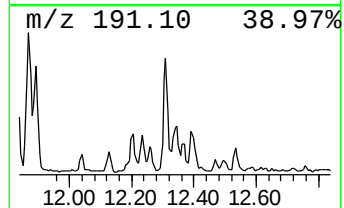
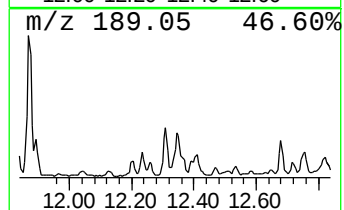
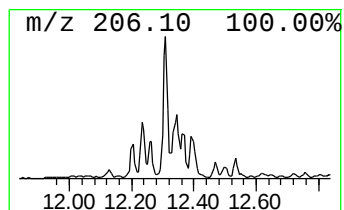
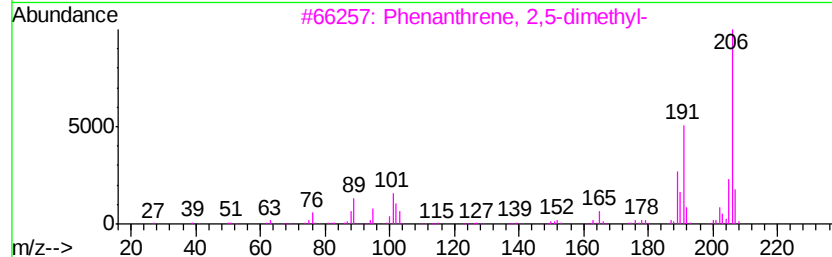
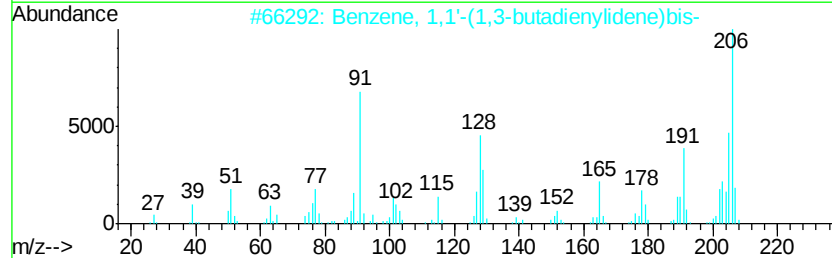
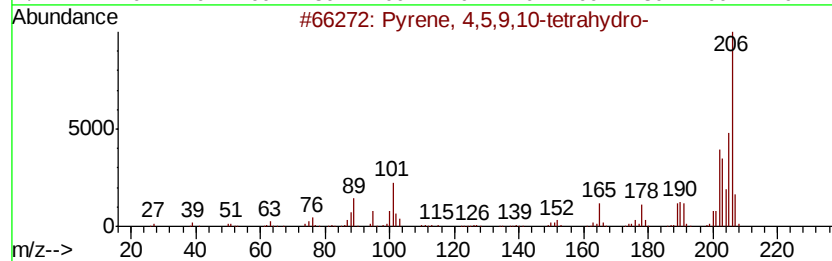
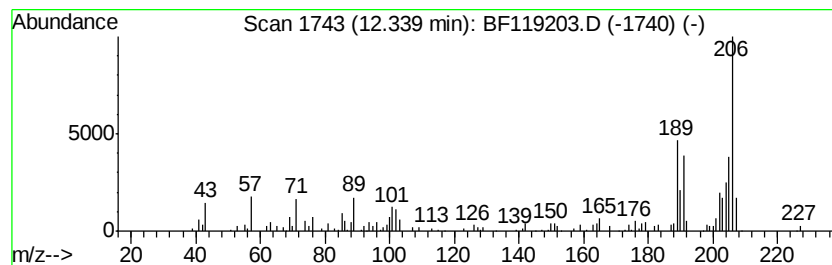
Instrument :  
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ClientSampleId :  
OR-02-030320

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022020.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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

| R.T.    | EstConc | Area                                    | Relative to ISTD | R.T.    |             |      |
|---------|---------|-----------------------------------------|------------------|---------|-------------|------|
| 12.34   | 2.97 ng | 145497                                  | Phenanthrene-d10 | 11.26   |             |      |
| Hit# of | 5       | Tentative ID                            | MW               | MolForm | CAS#        | Qual |
| 1       |         | Pyrene, 4,5,9,10-tetrahydro-            | 206              | C16H14  | 000781-17-9 | 70   |
| 2       |         | Benzene, 1,1'-(1,3-butadienylidene)bis- | 206              | C16H14  | 004165-81-5 | 49   |
| 3       |         | Phenanthrene, 2,5-dimethyl-             | 206              | C16H14  | 003674-66-6 | 49   |
| 4       |         | 1,4-Diphenyl-1,3-butadiene              | 206              | C16H14  | 000886-65-7 | 43   |
| 5       |         | Phenanthrene, 2,3-dimethyl-             | 206              | C16H14  | 003674-65-5 | 38   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030420\  
Data File : BF119203.D  
Acq On : 4 Mar 2020 19:22  
Operator : CG/JU  
Sample : L1759-01 2X  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OR-02-030320

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022020.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

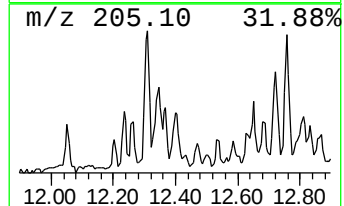
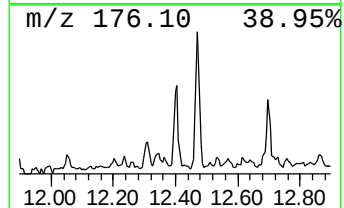
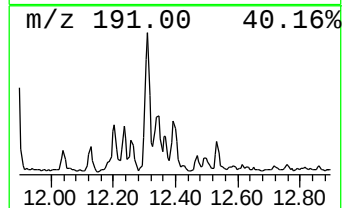
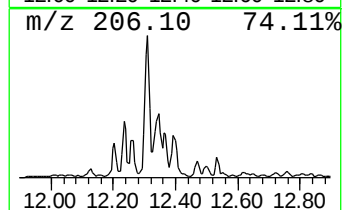
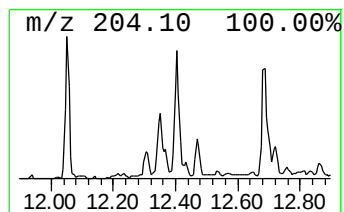
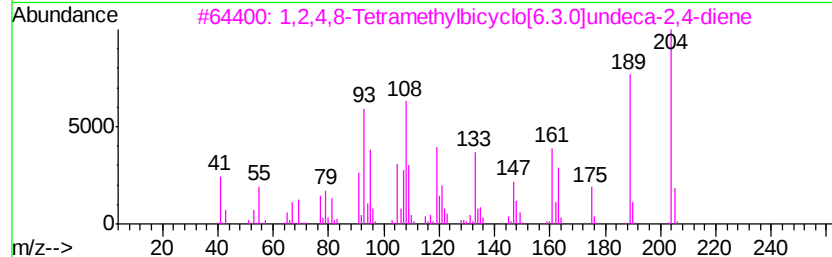
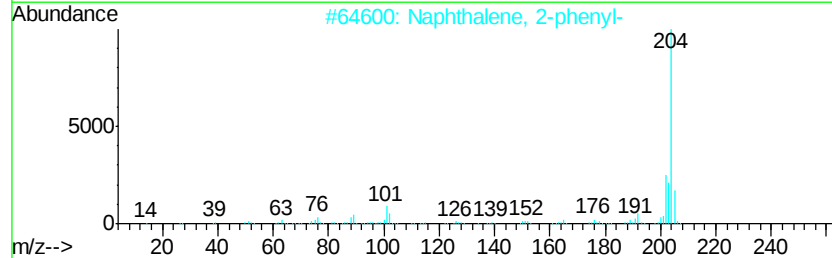
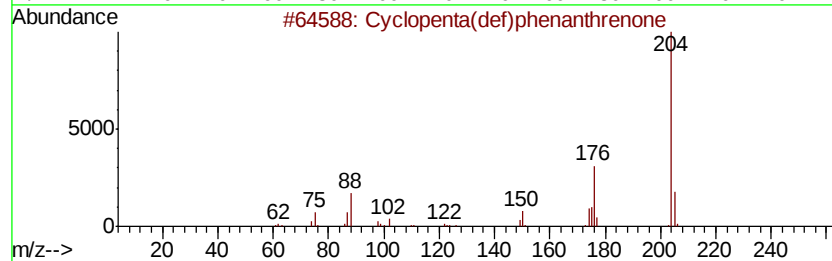
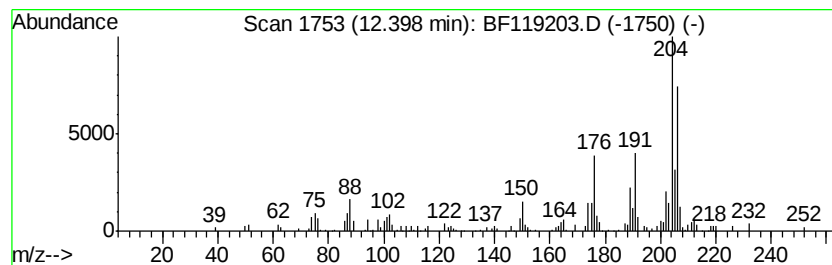
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 9 Cyclopenta(def)phenanthrenone Concentration Rank 11

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 12.40 | 2.74 ng | 134208 | Phenanthrene-d10 | 11.26 |

| Hit# | of | Tentative ID                                      | MW  | MolForm | CAS#        | Qual |
|------|----|---------------------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Cyclopenta(def)phenanthrenone                     | 204 | C15H8O  | 005737-13-3 | 70   |
| 2    |    | Naphthalene, 2-phenyl-                            | 204 | C16H12  | 000612-94-2 | 55   |
| 3    |    | 1,2,4,8-Tetramethylbicyclo[6.3.0]undeca-2,4-diene | 204 | C15H24  | 137235-51-9 | 55   |
| 4    |    | [1,1'-Biphenyl]-4,4'-dicarbonitrile               | 204 | C14H8N2 | 001591-30-6 | 47   |
| 5    |    | [1,1'-Biphenyl]-2,2'-dicarbonitrile               | 204 | C14H8N2 | 004341-02-0 | 43   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030420\  
Data File : BF119203.D  
Acq On : 4 Mar 2020 19:22  
Operator : CG/JU  
Sample : L1759-01 2X  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OR-02-030320

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022020.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

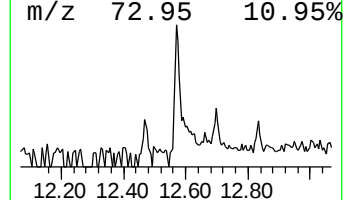
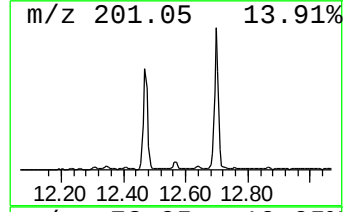
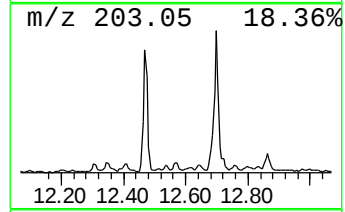
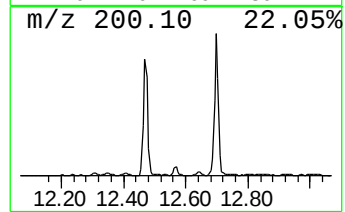
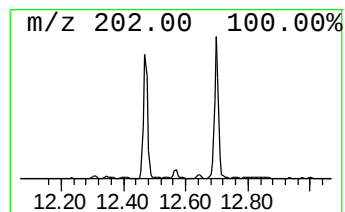
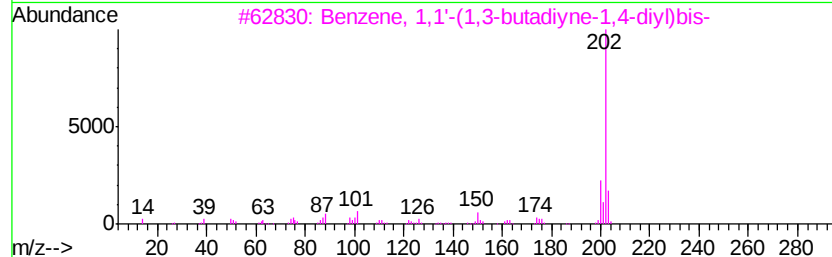
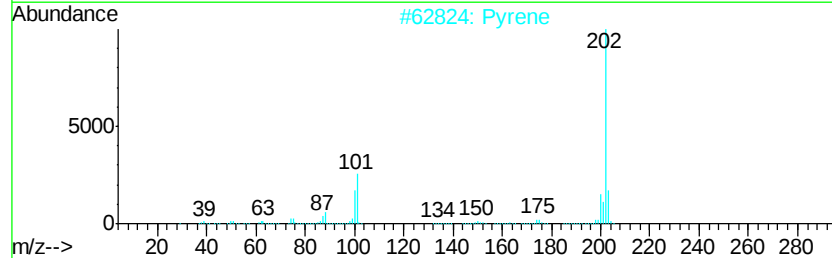
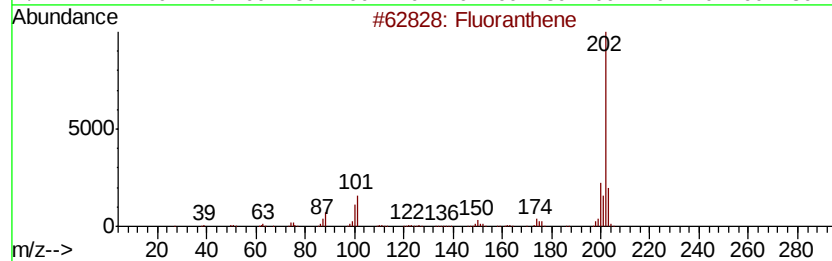
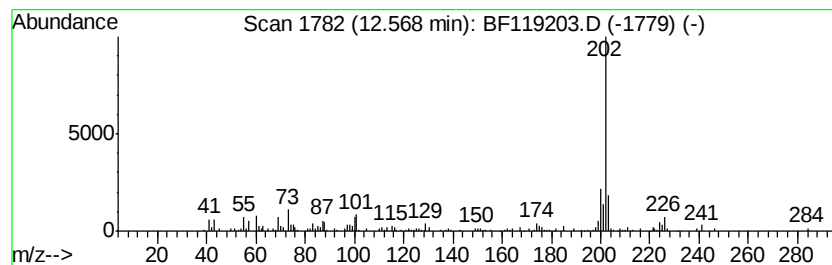
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TIC Integration Parameters: LSCINT.P

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Peak Number 10 Benzene, 1,1'-(1,3-butadiyn... Concentration Rank 15

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 12.57 | 2.28 ng | 111858 | Phenanthrene-d10 | 11.26 |

| Hit# | of | Tentative ID                        | MW  | MolForm     | CAS#         | Qual |
|------|----|-------------------------------------|-----|-------------|--------------|------|
| 1    | 5  | Fluoranthene                        | 202 | C16H10      | 000206-44-0  | 83   |
| 2    |    | Pyrene                              | 202 | C16H10      | 000129-00-0  | 64   |
| 3    |    | Benzene, 1,1'-(1,3-butadiyne-1,4... | 202 | C16H10      | 000886-66-8  | 64   |
| 4    |    | Decahydroquinoline 243a             | 243 | C17H25N     | 1000116-02-4 | 47   |
| 5    |    | 1H-Indole-3-propanoic acid, 1-(t... | 275 | C15H21NO2Si | 056196-72-6  | 45   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030420\  
Data File : BF119203.D  
Acq On : 4 Mar 2020 19:22  
Operator : CG/JU  
Sample : L1759-01 2X  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

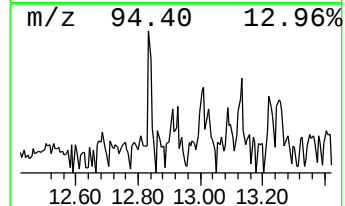
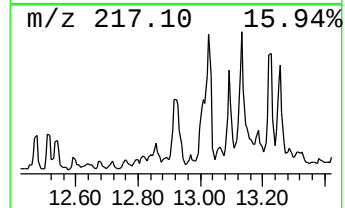
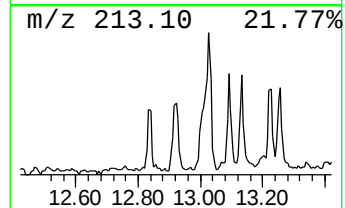
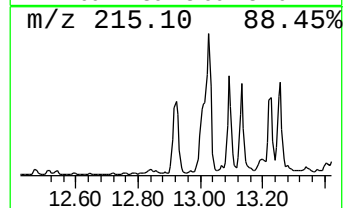
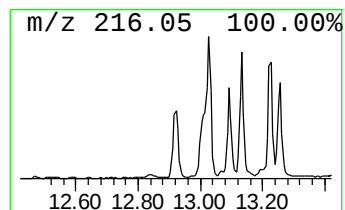
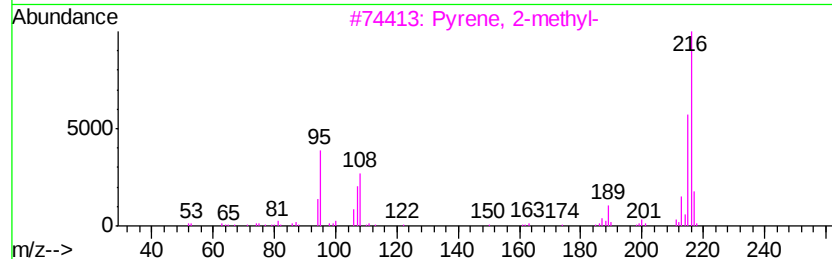
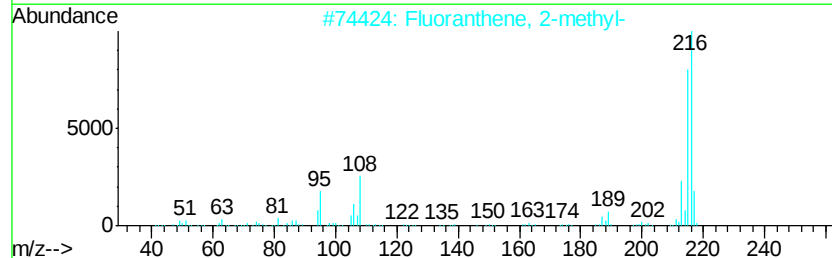
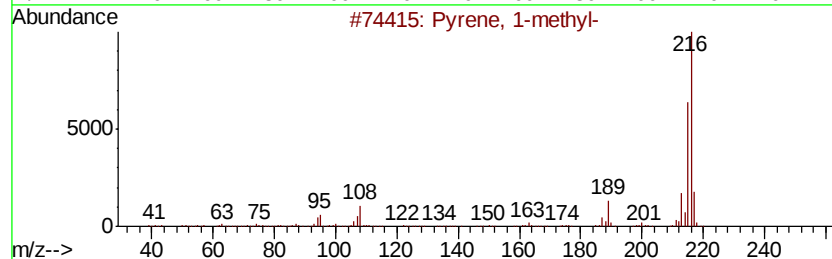
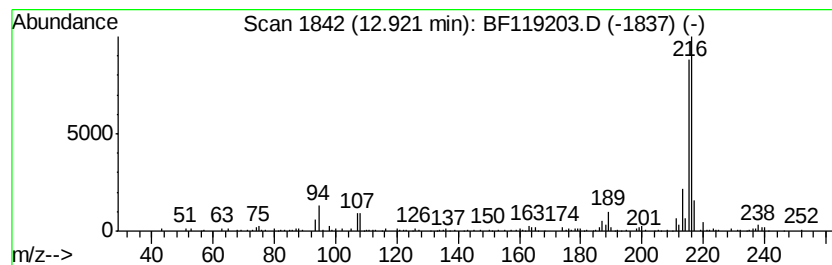
Instrument :  
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ClientSampleId :  
OR-02-030320

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022020.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 11 Pyrene, 1-methyl- Concentration Rank 8

| R.T.    | EstConc | Area                    | Relative to ISTD |         | R.T.        |      |
|---------|---------|-------------------------|------------------|---------|-------------|------|
| 12.92   | 3.11 ng | 235444                  | Chrysene-d12     |         | 13.90       |      |
| Hit# of | 5       | Tentative ID            | MW               | MolForm | CAS#        | Qual |
| 1       |         | Pyrene, 1-methyl-       | 216              | C17H12  | 002381-21-7 | 96   |
| 2       |         | Fluoranthene, 2-methyl- | 216              | C17H12  | 033543-31-6 | 93   |
| 3       |         | Pyrene, 2-methyl-       | 216              | C17H12  | 003442-78-2 | 86   |
| 4       |         | 11H-Benzo[a]fluorene    | 216              | C17H12  | 000238-84-6 | 86   |
| 5       |         | 11H-Benzo[b]fluorene    | 216              | C17H12  | 000243-17-4 | 83   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030420\  
Data File : BF119203.D  
Acq On : 4 Mar 2020 19:22  
Operator : CG/JU  
Sample : L1759-01 2X  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OR-02-030320

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022020.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

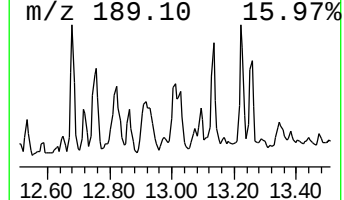
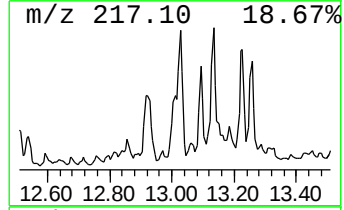
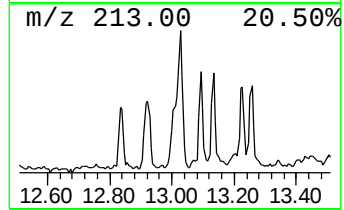
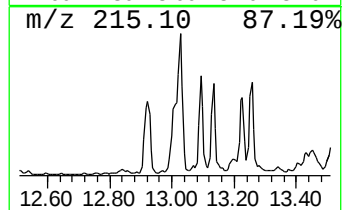
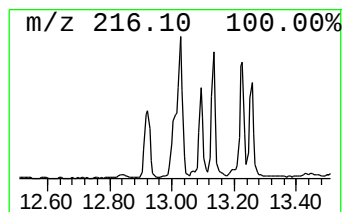
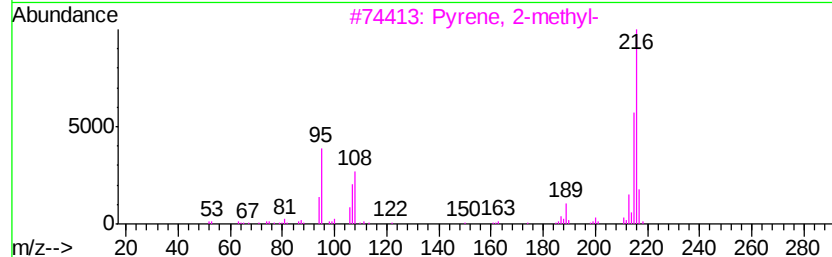
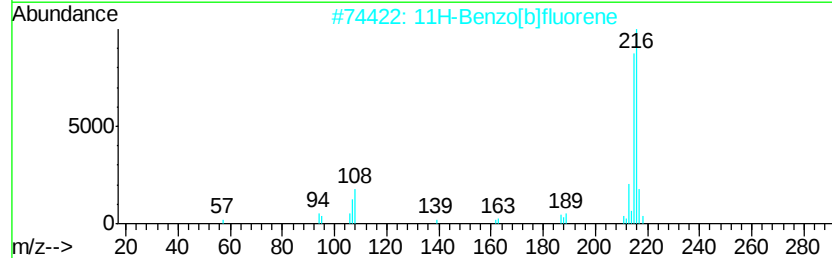
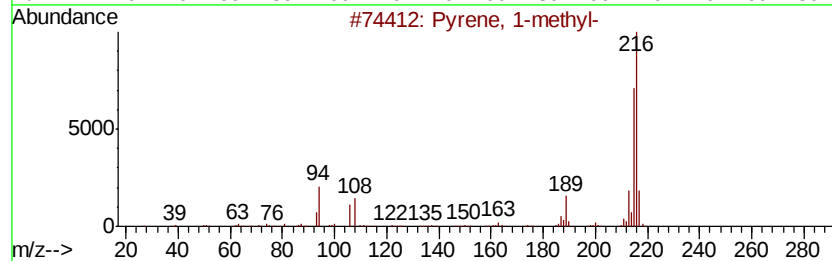
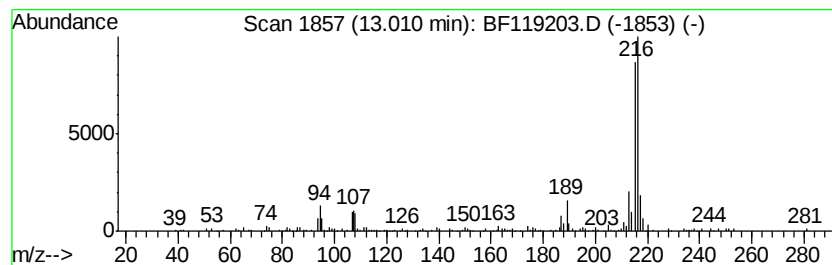
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TIC Integration Parameters: LSCINT.P

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Peak Number 12 11H-Benzo[b]fluorene Concentration Rank 18

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 13.01 | 2.18 ng | 164849 | Chrysene-d12     | 13.90 |

| Hit# | of | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------|-----|---------|-------------|------|
| 1    | 5  | Pvrene, 1-methyl-       | 216 | C17H12  | 002381-21-7 | 94   |
| 2    |    | 11H-Benzo[b]fluorene    | 216 | C17H12  | 000243-17-4 | 90   |
| 3    |    | Pvrene, 2-methyl-       | 216 | C17H12  | 003442-78-2 | 89   |
| 4    |    | 11H-Benzo[a]fluorene    | 216 | C17H12  | 000238-84-6 | 76   |
| 5    |    | Fluoranthene, 2-methyl- | 216 | C17H12  | 033543-31-6 | 76   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030420\  
Data File : BF119203.D  
Acq On : 4 Mar 2020 19:22  
Operator : CG/JU  
Sample : L1759-01 2X  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

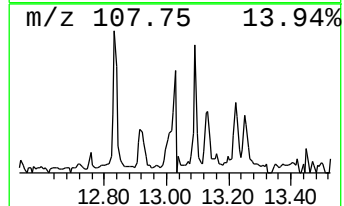
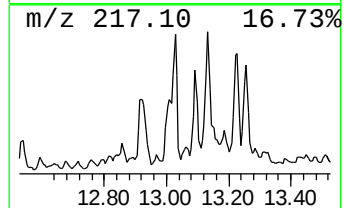
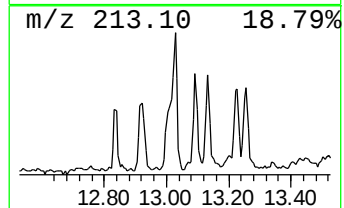
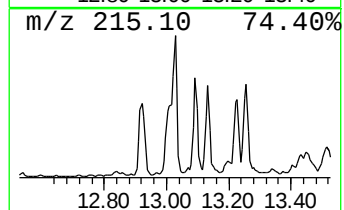
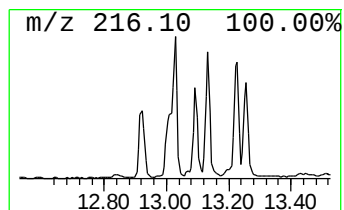
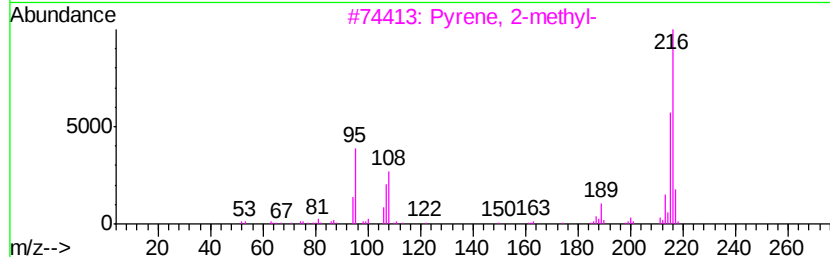
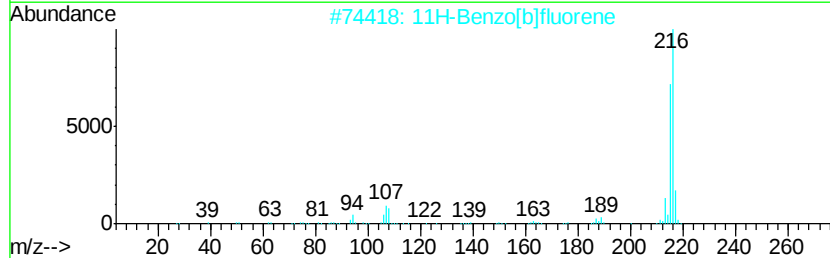
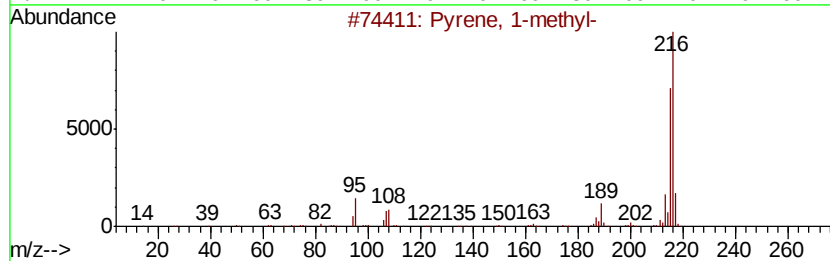
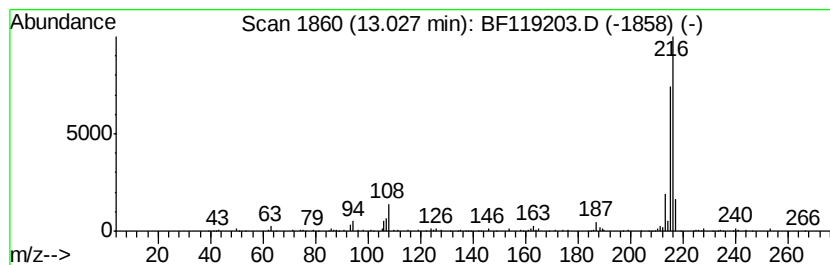
Instrument :  
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ClientSampleId :  
OR-02-030320

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022020.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 13 Pyrene, 2-methyl- Concentration Rank 14

| R.T.      | EstConc                 | Area   | Relative to ISTD |             | R.T.  |
|-----------|-------------------------|--------|------------------|-------------|-------|
| 13.03     | 2.36 ng                 | 178380 | Chrysene-d12     |             | 13.90 |
| Hit# of 5 | Tentative ID            | MW     | MolForm          | CAS#        | Qual  |
| 1         | Pyrene, 1-methyl-       | 216    | C17H12           | 002381-21-7 | 94    |
| 2         | 11H-Benzo[b]fluorene    | 216    | C17H12           | 000243-17-4 | 94    |
| 3         | Pyrene, 2-methyl-       | 216    | C17H12           | 003442-78-2 | 90    |
| 4         | Fluoranthene, 2-methyl- | 216    | C17H12           | 033543-31-6 | 87    |
| 5         | 11H-Benzo[a]fluorene    | 216    | C17H12           | 000238-84-6 | 87    |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030420\  
Data File : BF119203.D  
Acq On : 4 Mar 2020 19:22  
Operator : CG/JU  
Sample : L1759-01 2X  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OR-02-030320

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022020.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

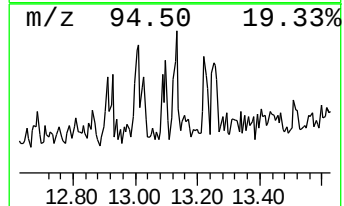
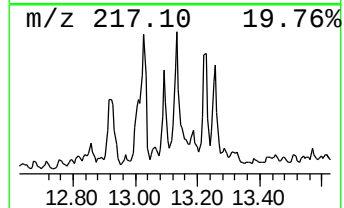
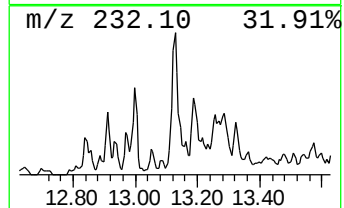
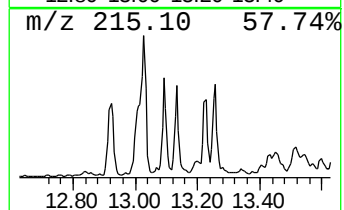
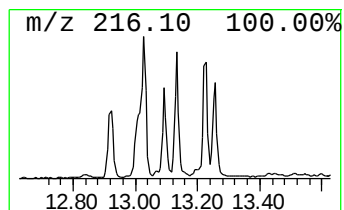
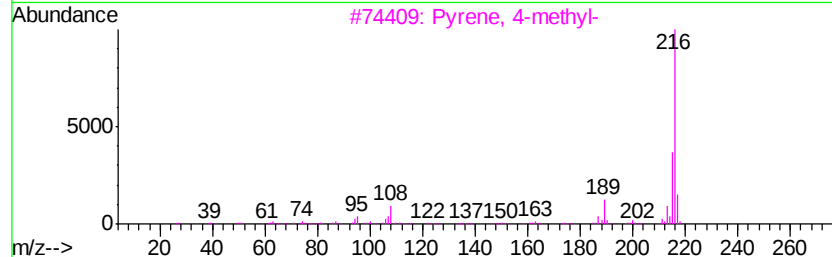
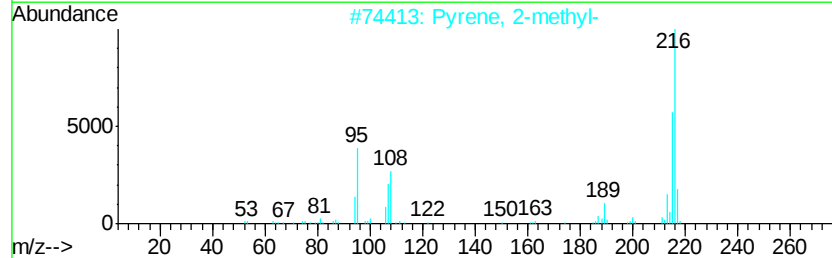
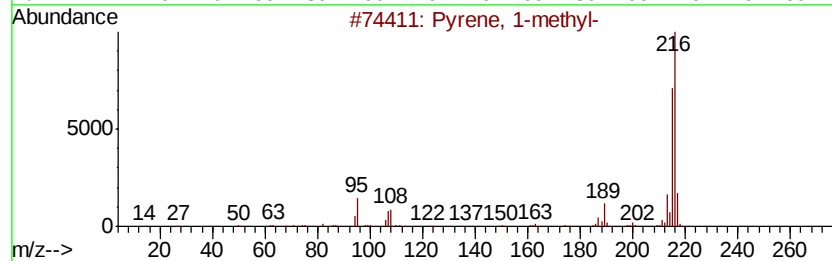
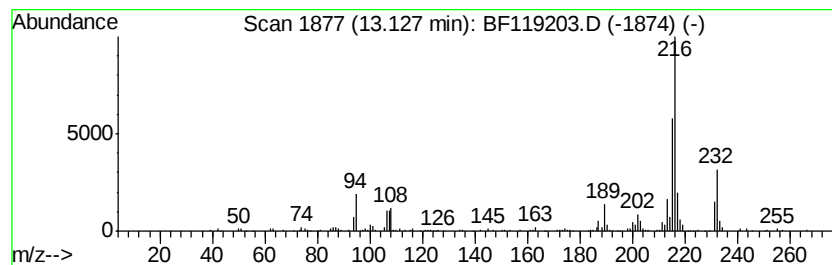
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 14 Pyrene, 4-methyl- Concentration Rank 10

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 13.13 | 2.78 ng | 210437 | Chrysene-d12     | 13.90 |

| Hit# | of | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------|-----|---------|-------------|------|
| 1    | 5  | Pyrene, 1-methyl-       | 216 | C17H12  | 002381-21-7 | 95   |
| 2    |    | Pyrene, 2-methyl-       | 216 | C17H12  | 003442-78-2 | 93   |
| 3    |    | Pyrene, 4-methyl-       | 216 | C17H12  | 003353-12-6 | 91   |
| 4    |    | 11H-Benzo[blfluorene    | 216 | C17H12  | 000243-17-4 | 81   |
| 5    |    | Fluoranthene, 2-methyl- | 216 | C17H12  | 033543-31-6 | 76   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030420\  
Data File : BF119203.D  
Acq On : 4 Mar 2020 19:22  
Operator : CG/JU  
Sample : L1759-01 2X  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

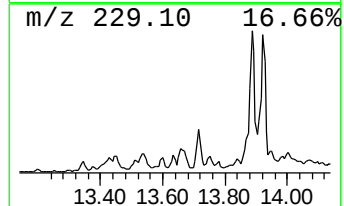
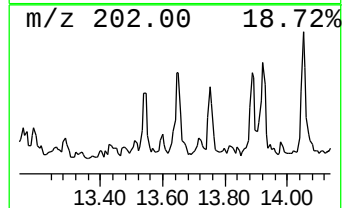
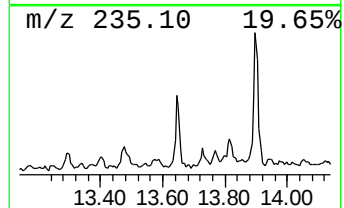
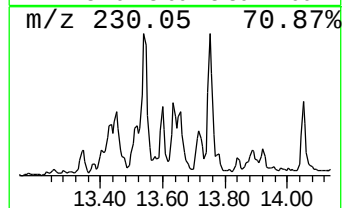
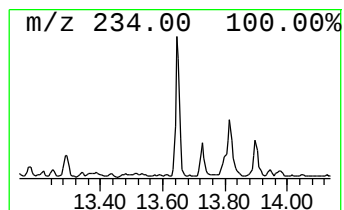
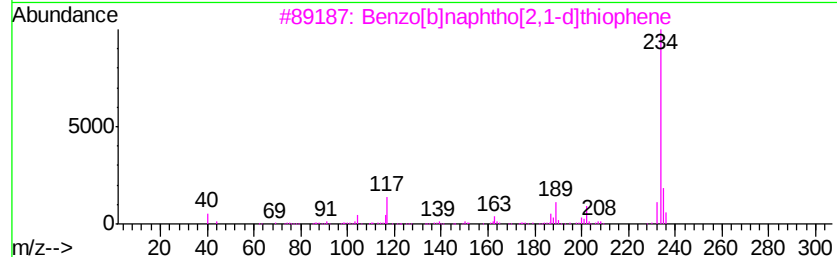
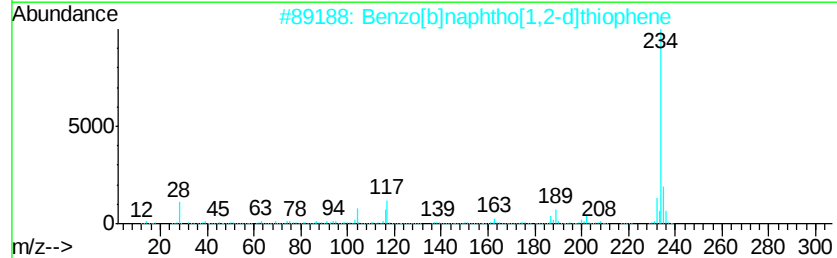
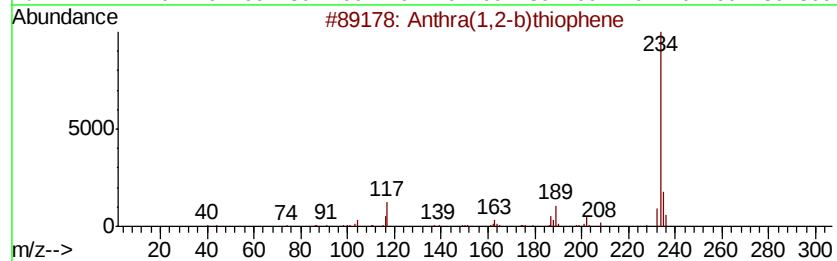
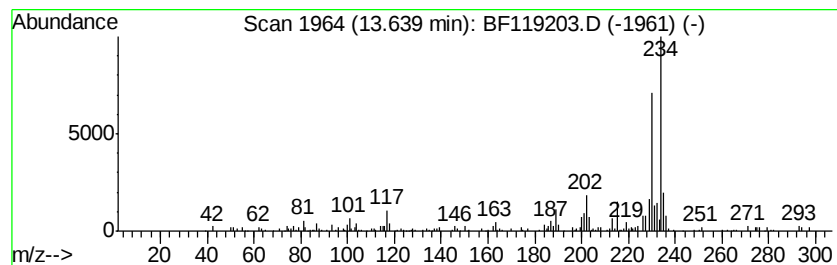
Instrument :  
BNA\_F  
ClientSampleId :  
OR-02-030320

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022020.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 15 Anthra(1,2-b)thiophene Concentration Rank 12

| R.T.    | EstConc | Area                            | Relative to ISTD | R.T.    |             |      |
|---------|---------|---------------------------------|------------------|---------|-------------|------|
| 13.64   | 2.53 ng | 191601                          | Chrysene-d12     | 13.90   |             |      |
| Hit# of | 5       | Tentative ID                    | MW               | MolForm | CAS#        | Qual |
| 1       |         | Anthra(1,2-b)thiophene          | 234              | C16H10S | 000227-86-1 | 93   |
| 2       |         | Benzo[b]naphtho[1,2-d]thiophene | 234              | C16H10S | 000205-43-6 | 90   |
| 3       |         | Benzo[b]naphtho[2,1-d]thiophene | 234              | C16H10S | 000239-35-0 | 89   |
| 4       |         | Benzo[b]naphtho[2,3-d]thiophene | 234              | C16H10S | 000243-46-9 | 81   |
| 5       |         | Phenanthro(2,1-b)thiophene      | 234              | C16H10S | 000219-25-0 | 76   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030420\  
Data File : BF119203.D  
Acq On : 4 Mar 2020 19:22  
Operator : CG/JU  
Sample : L1759-01 2X  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OR-02-030320

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

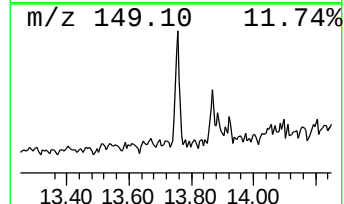
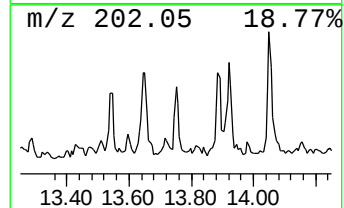
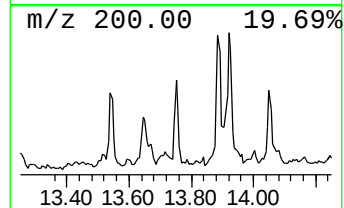
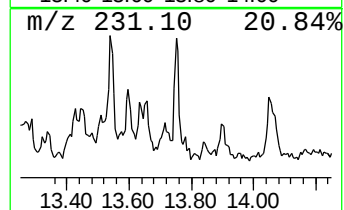
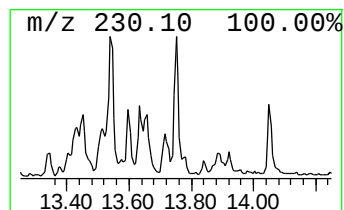
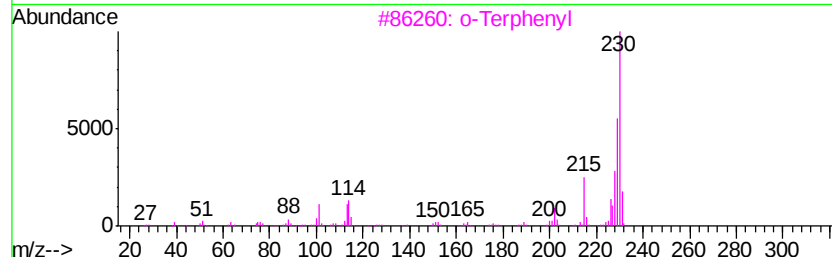
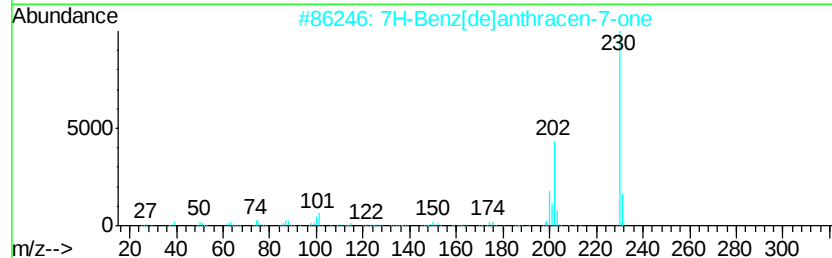
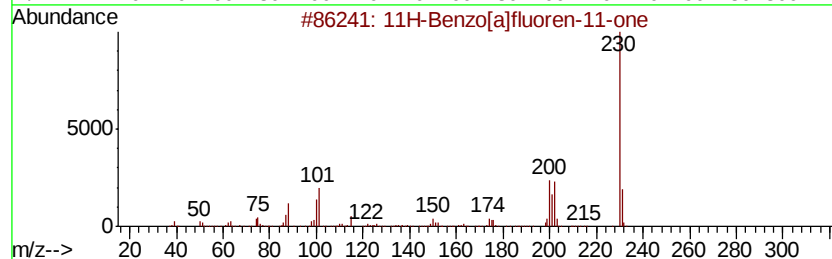
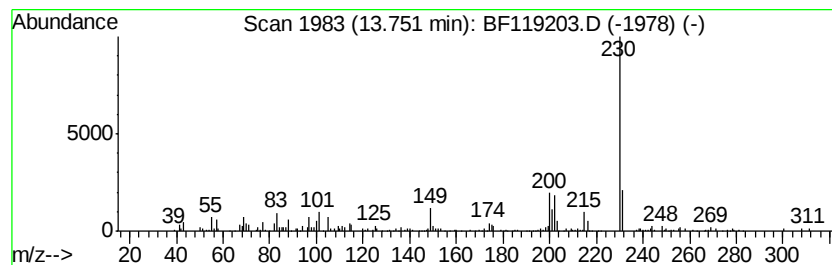
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 16 11H-Benzo[a]fluoren-11-one Concentration Rank 13

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 13.75 | 2.51 ng | 189946 | Chrysene-d12     | 13.90 |

| Hit# | of | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------|-----|---------|-------------|------|
| 1    | 5  | 11H-Benzo[a]fluoren-11-one | 230 | C17H10O | 000479-79-8 | 95   |
| 2    |    | 7H-Benz[de]anthracen-7-one | 230 | C17H10O | 000082-05-3 | 89   |
| 3    |    | o-Terphenyl                | 230 | C18H14  | 000084-15-1 | 58   |
| 4    |    | p-Terphenyl                | 230 | C18H14  | 000092-94-4 | 53   |
| 5    |    | Naphthacene, 5,12-dihydro- | 230 | C18H14  | 000959-02-4 | 53   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030420\  
Data File : BF119203.D  
Acq On : 4 Mar 2020 19:22  
Operator : CG/JU  
Sample : L1759-01 2X  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OR-02-030320

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022020.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

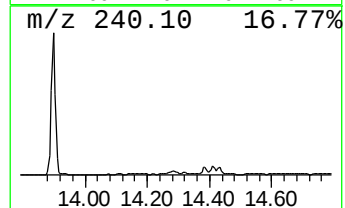
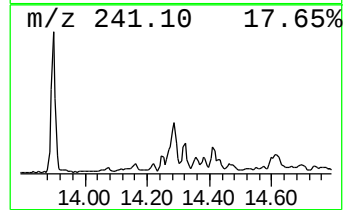
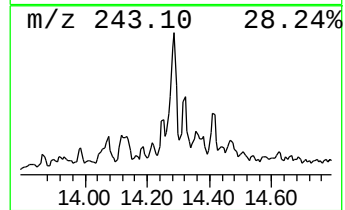
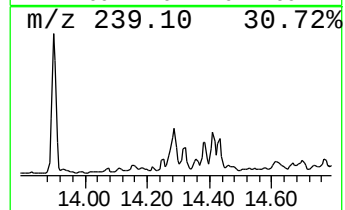
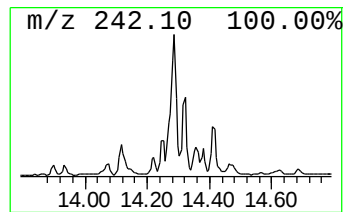
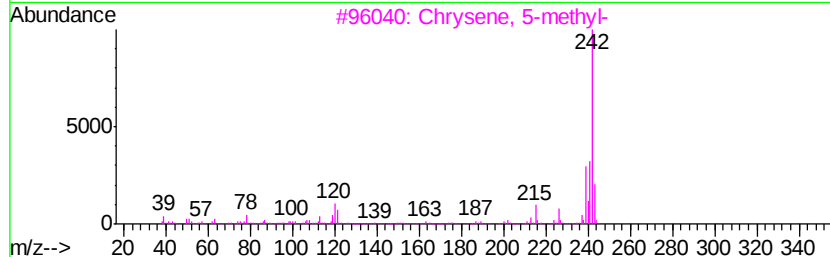
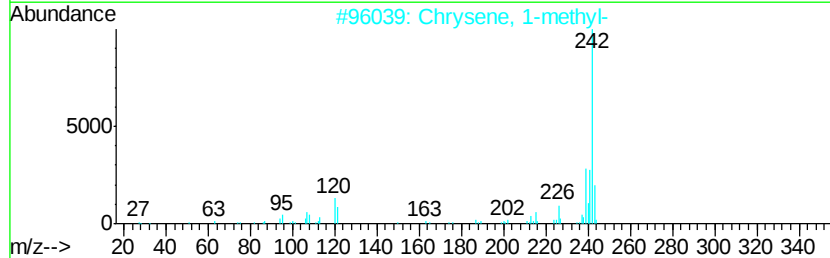
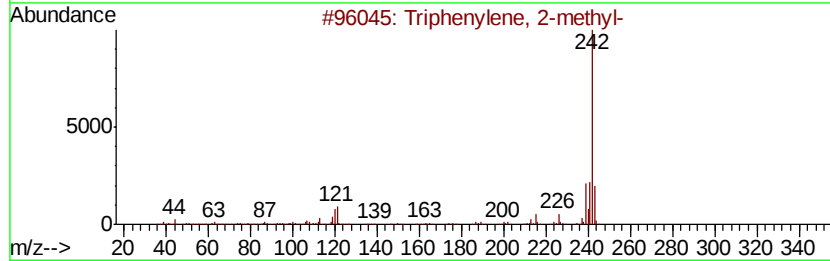
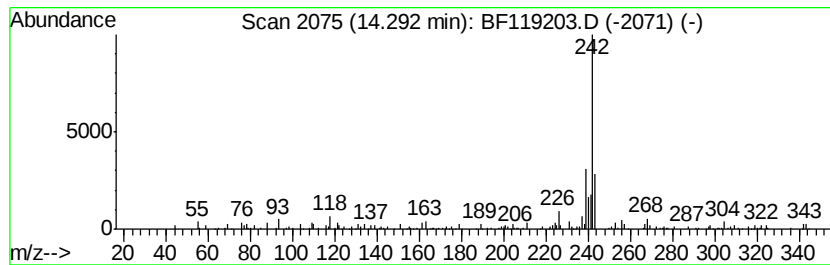
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 17 Triphenylene, 2-methyl- Concentration Rank 17

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 14.29 | 2.20 ng | 166717 | Chrysene-d12     | 13.90 |

| Hit# | of | Tentative ID                 | MW  | MolForm | CAS#        | Qual |
|------|----|------------------------------|-----|---------|-------------|------|
| 1    | 5  | Triphenylene, 2-methyl-      | 242 | C19H14  | 001705-84-6 | 90   |
| 2    |    | Chrysene, 1-methyl-          | 242 | C19H14  | 003351-28-8 | 90   |
| 3    |    | Chrysene, 5-methyl-          | 242 | C19H14  | 003697-24-3 | 89   |
| 4    |    | Benz[a]anthracene, 1-methyl- | 242 | C19H14  | 002498-77-3 | 86   |
| 5    |    | Benz[a]anthracene, 8-methyl- | 242 | C19H14  | 002381-31-9 | 81   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030420\  
Data File : BF119203.D  
Acq On : 4 Mar 2020 19:22  
Operator : CG/JU  
Sample : L1759-01 2X  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OR-02-030320

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022020.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

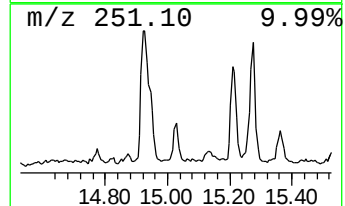
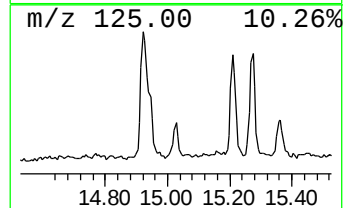
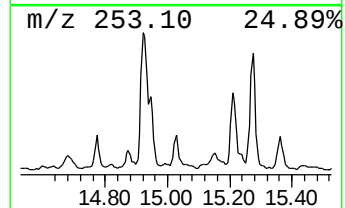
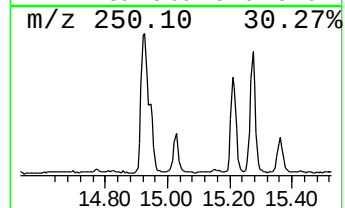
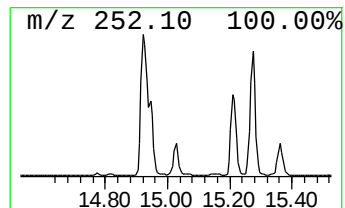
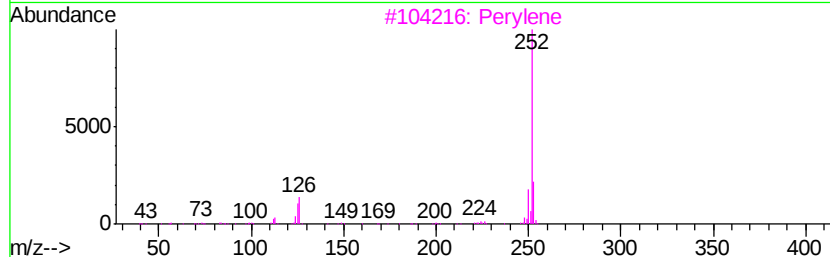
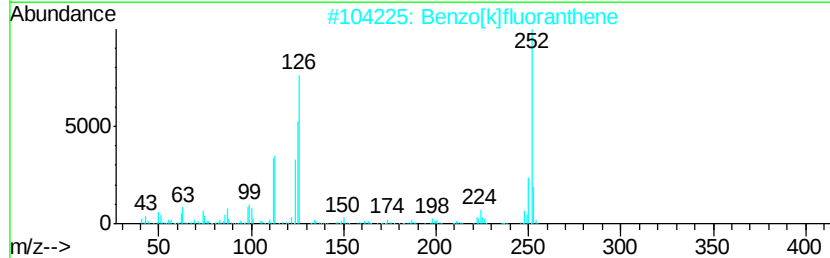
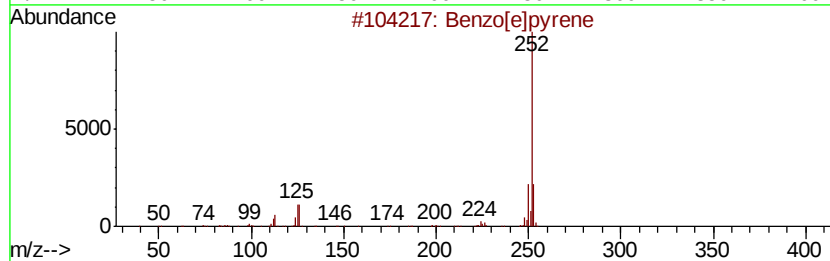
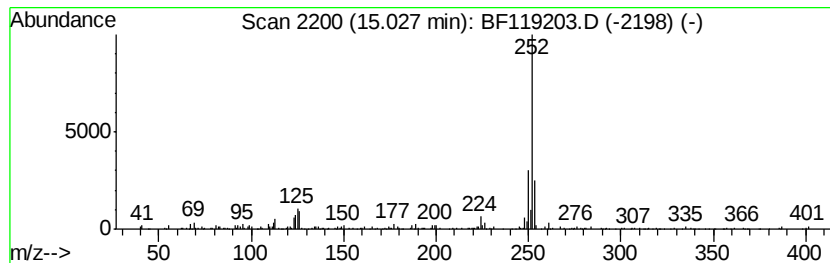
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 18 Benzo[e]pyrene Concentration Rank 6

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 15.03 | 3.41 ng | 125167 | Perylene-d12     | 15.33 |

| Hit# | of | 5 | Tentative ID             | MW  | MolForm | CAS#        | Qual |
|------|----|---|--------------------------|-----|---------|-------------|------|
| 1    |    |   | Benzo[e]pyrene           | 252 | C20H12  | 000192-97-2 | 95   |
| 2    |    |   | Benzo[k]fluoranthene     | 252 | C20H12  | 000207-08-9 | 95   |
| 3    |    |   | Perylene                 | 252 | C20H12  | 000198-55-0 | 81   |
| 4    |    |   | Benzo[a]pyrene           | 252 | C20H12  | 000050-32-8 | 74   |
| 5    |    |   | Benz[e]acephenanthrylene | 252 | C20H12  | 000205-99-2 | 70   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF030420\  
 Data File : BF119203.D  
 Acq On : 4 Mar 2020 19:22  
 Operator : CG/JU  
 Sample : L1759-01 2X  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 OR-02-030320

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF022020.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 |
| Phenanthrene, 1-m... | 11.76 | 3.3     | ng    | 159830   | 4                     | 11.26 | 980564  | 20.0 |
| Phenanthrene, 2-m... | 11.79 | 5.6     | ng    | 275720   | 4                     | 11.26 | 980564  | 20.0 |
| Anthracene, 1-met... | 11.83 | 2.1     | ng    | 105330   | 4                     | 11.26 | 980564  | 20.0 |
| 4H-Cyclopenta[def... | 11.87 | 6.3     | ng    | 310910   | 4                     | 11.26 | 980564  | 20.0 |
| 5,16[1',2']:8,13[... | 12.05 | 2.2     | ng    | 108898   | 4                     | 11.26 | 980564  | 20.0 |
| Phenanthrene, 2,5... | 12.31 | 4.5     | ng    | 223226   | 4                     | 11.26 | 980564  | 20.0 |
| Pyrene, 4,5,9,10-... | 12.34 | 3.0     | ng    | 145497   | 4                     | 11.26 | 980564  | 20.0 |
| Cyclopenta(def)ph... | 12.40 | 2.7     | ng    | 134208   | 4                     | 11.26 | 980564  | 20.0 |
| Benzene, 1,1'-(1,... | 12.57 | 2.3     | ng    | 111858   | 4                     | 11.26 | 980564  | 20.0 |
| Pyrene, 1-methyl-    | 12.92 | 3.1     | ng    | 235444   | 5                     | 13.90 | 1512730 | 20.0 |
| 11H-Benzo[b]fluorene | 13.01 | 2.2     | ng    | 164849   | 5                     | 13.90 | 1512730 | 20.0 |
| Pyrene, 2-methyl-    | 13.03 | 2.4     | ng    | 178380   | 5                     | 13.90 | 1512730 | 20.0 |
| Pyrene, 4-methyl-    | 13.13 | 2.8     | ng    | 210437   | 5                     | 13.90 | 1512730 | 20.0 |
| Anthra(1,2-b)thio... | 13.64 | 2.5     | ng    | 191601   | 5                     | 13.90 | 1512730 | 20.0 |
| 11H-Benzo[a]fluor... | 13.75 | 2.5     | ng    | 189946   | 5                     | 13.90 | 1512730 | 20.0 |
| Triphenylene, 2-m... | 14.29 | 2.2     | ng    | 166717   | 5                     | 13.90 | 1512730 | 20.0 |
| Benzo[e]pyrene       | 15.03 | 3.4     | ng    | 125167   | 6                     | 15.33 | 734307  | 20.0 |