

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF110321\  
 Data File : BF126033.D  
 Acq On : 3 Nov 2021 22:32  
 Operator : JU/CG  
 Sample : M4470-04 5X  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SP-2

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

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

Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF110321.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF126033.D\data.ms

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 2.110       | 3             | 4           | 9            | rVB      | 402263         | 372929        | 9.70%           | 0.771%        |
| 2         | 5.451       | 568           | 572         | 576          | rBV      | 851154         | 765802        | 19.93%          | 1.583%        |
| 3         | 6.463       | 740           | 744         | 753          | rBV      | 941362         | 829147        | 21.57%          | 1.714%        |
| 4         | 6.851       | 806           | 810         | 813          | rBV      | 1333314        | 1014048       | 26.38%          | 2.096%        |
| 5         | 7.404       | 900           | 904         | 911          | rBV      | 609229         | 513320        | 13.36%          | 1.061%        |
| 6         | 8.033       | 1008          | 1011        | 1023         | rBV      | 184936         | 221670        | 5.77%           | 0.458%        |
| 7         | 8.133       | 1024          | 1028        | 1030         | rVV      | 1655799        | 1314757       | 34.21%          | 2.717%        |
| 8         | 8.151       | 1030          | 1031        | 1035         | rVB      | 132027         | 85237         | 2.22%           | 0.176%        |
| 9         | 8.845       | 1145          | 1149        | 1152         | rBV      | 107225         | 81088         | 2.11%           | 0.168%        |
| 10        | 8.945       | 1162          | 1166        | 1169         | rVB      | 94775          | 82138         | 2.14%           | 0.170%        |
| 11        | 9.204       | 1206          | 1210        | 1214         | rBV      | 1306646        | 997284        | 25.95%          | 2.061%        |
| 12        | 9.469       | 1251          | 1255        | 1260         | rBV2     | 56331          | 79556         | 2.07%           | 0.164%        |
| 13        | 9.545       | 1263          | 1268        | 1270         | rBV      | 117485         | 116827        | 3.04%           | 0.241%        |
| 14        | 9.886       | 1320          | 1326        | 1329         | rBV      | 1893341        | 1545617       | 40.21%          | 3.195%        |
| 15        | 9.916       | 1329          | 1331        | 1335         | rVB      | 325164         | 242266        | 6.30%           | 0.501%        |
| 16        | 10.086      | 1357          | 1360        | 1363         | rVB      | 262289         | 213888        | 5.57%           | 0.442%        |
| 17        | 10.427      | 1415          | 1418        | 1424         | rBV      | 378013         | 363160        | 9.45%           | 0.751%        |
| 18        | 10.498      | 1424          | 1430        | 1431         | rBV2     | 69167          | 99629         | 2.59%           | 0.206%        |
| 19        | 10.586      | 1443          | 1445        | 1449         | rVB      | 168933         | 137924        | 3.59%           | 0.285%        |
| 20        | 10.669      | 1455          | 1459        | 1463         | rBV      | 688778         | 639031        | 16.63%          | 1.321%        |
| 21        | 10.804      | 1478          | 1482        | 1485         | rBV2     | 93466          | 139784        | 3.64%           | 0.289%        |
| 22        | 10.980      | 1505          | 1512        | 1514         | rBV3     | 116414         | 161098        | 4.19%           | 0.333%        |
| 23        | 11.104      | 1529          | 1533        | 1535         | rBV2     | 90130          | 108272        | 2.82%           | 0.224%        |
| 24        | 11.127      | 1535          | 1537        | 1539         | rVV2     | 115271         | 107007        | 2.78%           | 0.221%        |
| 25        | 11.169      | 1542          | 1544        | 1549         | rVV      | 212839         | 203699        | 5.30%           | 0.421%        |
| 26        | 11.227      | 1549          | 1554        | 1558         | rVV4     | 133284         | 237248        | 6.17%           | 0.490%        |
| 27        | 11.263      | 1558          | 1560        | 1566         | rVB2     | 274010         | 285991        | 7.44%           | 0.591%        |
| 28        | 11.369      | 1574          | 1578        | 1580         | rBV      | 1522591        | 1393370       | 36.25%          | 2.880%        |
| 29        | 11.398      | 1580          | 1583        | 1586         | rVV      | 4357929        | 3548715       | 92.33%          | 7.335%        |
| 30        | 11.445      | 1586          | 1591        | 1594         | rVV      | 953249         | 793908        | 20.66%          | 1.641%        |
| 31        | 11.474      | 1594          | 1596        | 1600         | rVB2     | 79681          | 76007         | 1.98%           | 0.157%        |
| 32        | 11.592      | 1611          | 1616        | 1619         | rBV2     | 289725         | 282052        | 7.34%           | 0.583%        |
| 33        | 11.621      | 1619          | 1621        | 1624         | rVV      | 82863          | 80227         | 2.09%           | 0.166%        |
| 34        | 11.669      | 1626          | 1629        | 1631         | rVV2     | 98280          | 92158         | 2.40%           | 0.190%        |
| 35        | 11.698      | 1631          | 1634        | 1640         | rVB3     | 122490         | 118388        | 3.08%           | 0.245%        |
| 36        | 11.868      | 1660          | 1663        | 1665         | rBV      | 561172         | 439325        | 11.43%          | 0.908%        |

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 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SP-2

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

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

Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF110321.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |         |        |
|----|--------|------|------|------|------|---------|---------|---------|--------|
| 37 | 11.898 | 1665 | 1668 | 1671 | rVB  | 815957  | 629228  | 16.37%  | 1.301% |
| 38 | 11.945 | 1672 | 1676 | 1679 | rBV  | 271680  | 237249  | 6.17%   | 0.490% |
| 39 | 11.980 | 1679 | 1682 | 1684 | rBV  | 691838  | 699466  | 18.20%  | 1.446% |
| 40 | 12.004 | 1684 | 1686 | 1691 | rVB  | 367607  | 292760  | 7.62%   | 0.605% |
| 41 | 12.163 | 1710 | 1713 | 1715 | rBV  | 348657  | 292438  | 7.61%   | 0.604% |
| 42 | 12.186 | 1715 | 1717 | 1721 | rVB  | 276933  | 227497  | 5.92%   | 0.470% |
| 43 | 12.316 | 1736 | 1739 | 1741 | rVB  | 128056  | 92401   | 2.40%   | 0.191% |
| 44 | 12.345 | 1741 | 1744 | 1746 | rBV  | 114155  | 95443   | 2.48%   | 0.197% |
| 45 | 12.368 | 1746 | 1748 | 1751 | rVB  | 114730  | 94004   | 2.45%   | 0.194% |
| 46 | 12.421 | 1753 | 1757 | 1759 | rBV  | 245576  | 254817  | 6.63%   | 0.527% |
| 47 | 12.457 | 1759 | 1763 | 1765 | rVV  | 122555  | 147229  | 3.83%   | 0.304% |
| 48 | 12.504 | 1768 | 1771 | 1776 | rVB2 | 225186  | 250239  | 6.51%   | 0.517% |
| 49 | 12.586 | 1780 | 1785 | 1788 | rVB  | 4698400 | 3843393 | 100.00% | 7.944% |
| 50 | 12.710 | 1802 | 1806 | 1807 | rBV2 | 101109  | 108156  | 2.81%   | 0.224% |
| 51 | 12.733 | 1807 | 1810 | 1813 | rVB  | 93672   | 97917   | 2.55%   | 0.202% |
| 52 | 12.815 | 1817 | 1824 | 1827 | rBV2 | 2909004 | 3464363 | 90.14%  | 7.160% |
| 53 | 12.857 | 1829 | 1831 | 1836 | rVB2 | 201342  | 207584  | 5.40%   | 0.429% |
| 54 | 12.927 | 1840 | 1843 | 1844 | rBV  | 254919  | 201393  | 5.24%   | 0.416% |
| 55 | 12.951 | 1844 | 1847 | 1853 | rVB2 | 992806  | 942142  | 24.51%  | 1.947% |
| 56 | 13.027 | 1855 | 1860 | 1863 | rBV2 | 252018  | 407877  | 10.61%  | 0.843% |
| 57 | 13.051 | 1863 | 1864 | 1867 | rVB  | 89841   | 69167   | 1.80%   | 0.143% |
| 58 | 13.110 | 1871 | 1874 | 1876 | rVV3 | 177649  | 214603  | 5.58%   | 0.444% |
| 59 | 13.133 | 1876 | 1878 | 1881 | rVB  | 506877  | 462084  | 12.02%  | 0.955% |
| 60 | 13.204 | 1887 | 1890 | 1892 | rBV  | 287375  | 232049  | 6.04%   | 0.480% |
| 61 | 13.239 | 1892 | 1896 | 1899 | rVV2 | 388085  | 391257  | 10.18%  | 0.809% |
| 62 | 13.333 | 1909 | 1912 | 1915 | rBV  | 153984  | 123154  | 3.20%   | 0.255% |
| 63 | 13.363 | 1915 | 1917 | 1921 | rBV2 | 170355  | 153478  | 3.99%   | 0.317% |
| 64 | 13.439 | 1927 | 1930 | 1934 | rBV5 | 63698   | 82230   | 2.14%   | 0.170% |
| 65 | 13.498 | 1937 | 1940 | 1944 | rBV2 | 151186  | 178740  | 4.65%   | 0.369% |
| 66 | 13.639 | 1961 | 1964 | 1970 | rVB  | 364206  | 362910  | 9.44%   | 0.750% |
| 67 | 13.751 | 1979 | 1983 | 1986 | rBV2 | 326199  | 424211  | 11.04%  | 0.877% |
| 68 | 13.780 | 1986 | 1988 | 1991 | rVV  | 257730  | 263874  | 6.87%   | 0.545% |
| 69 | 13.810 | 1991 | 1993 | 1996 | rVV2 | 167777  | 242666  | 6.31%   | 0.502% |
| 70 | 13.845 | 1996 | 1999 | 2002 | rVB2 | 350420  | 335562  | 8.73%   | 0.694% |
| 71 | 13.998 | 2018 | 2025 | 2029 | rBV3 | 2311351 | 3307039 | 86.04%  | 6.835% |
| 72 | 14.033 | 2029 | 2031 | 2036 | rVB  | 1810541 | 1501177 | 39.06%  | 3.103% |
| 73 | 14.110 | 2042 | 2044 | 2047 | rVB  | 121748  | 93131   | 2.42%   | 0.192% |
| 74 | 14.192 | 2055 | 2058 | 2060 | rVB2 | 157137  | 151680  | 3.95%   | 0.313% |
| 75 | 14.227 | 2060 | 2064 | 2067 | rVV2 | 166798  | 212850  | 5.54%   | 0.440% |
| 76 | 14.262 | 2067 | 2070 | 2072 | rVB2 | 83816   | 75736   | 1.97%   | 0.157% |

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 Sample : M4470-04 5X  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SP-2

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

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

Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF110321.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|     |        |      |      |      |      |         |         |        |        |
|-----|--------|------|------|------|------|---------|---------|--------|--------|
| 77  | 14.357 | 2083 | 2086 | 2088 | rVV  | 90730   | 99240   | 2.58%  | 0.205% |
| 78  | 14.392 | 2088 | 2092 | 2094 | rVV  | 397731  | 391454  | 10.19% | 0.809% |
| 79  | 14.427 | 2094 | 2098 | 2101 | rVV2 | 211923  | 227269  | 5.91%  | 0.470% |
| 80  | 14.480 | 2105 | 2107 | 2110 | rVV2 | 156586  | 181779  | 4.73%  | 0.376% |
| 81  | 14.515 | 2110 | 2113 | 2115 | rVV  | 186385  | 202621  | 5.27%  | 0.419% |
| 82  | 14.539 | 2115 | 2117 | 2120 | rVV3 | 150659  | 155082  | 4.04%  | 0.321% |
| 83  | 14.586 | 2120 | 2125 | 2131 | rVB4 | 117138  | 208849  | 5.43%  | 0.432% |
| 84  | 14.692 | 2140 | 2143 | 2147 | rBV2 | 136848  | 169327  | 4.41%  | 0.350% |
| 85  | 14.780 | 2155 | 2158 | 2162 | rBV4 | 73456   | 103615  | 2.70%  | 0.214% |
| 86  | 14.868 | 2170 | 2173 | 2174 | rBV2 | 80651   | 81908   | 2.13%  | 0.169% |
| 87  | 14.951 | 2184 | 2187 | 2189 | rBV3 | 72858   | 71104   | 1.85%  | 0.147% |
| 88  | 15.045 | 2198 | 2203 | 2206 | rBV  | 1251297 | 1903555 | 49.53% | 3.934% |
| 89  | 15.151 | 2218 | 2221 | 2224 | rVB  | 230770  | 230886  | 6.01%  | 0.477% |
| 90  | 15.239 | 2233 | 2236 | 2238 | rBV3 | 81198   | 107904  | 2.81%  | 0.223% |
| 91  | 15.345 | 2250 | 2254 | 2260 | rVB  | 667539  | 880336  | 22.91% | 1.820% |
| 92  | 15.409 | 2260 | 2265 | 2270 | rBV  | 1026068 | 1172128 | 30.50% | 2.423% |
| 93  | 15.468 | 2271 | 2275 | 2278 | rVV  | 767356  | 975175  | 25.37% | 2.016% |
| 94  | 15.498 | 2278 | 2280 | 2287 | rVB2 | 299230  | 444135  | 11.56% | 0.918% |
| 95  | 15.951 | 2353 | 2357 | 2360 | rVB4 | 56224   | 78983   | 2.06%  | 0.163% |
| 96  | 16.921 | 2516 | 2522 | 2530 | rVB2 | 352318  | 677845  | 17.64% | 1.401% |
| 97  | 17.092 | 2548 | 2551 | 2557 | rVB  | 88204   | 133796  | 3.48%  | 0.277% |
| 98  | 17.150 | 2557 | 2561 | 2565 | rBV  | 64210   | 104657  | 2.72%  | 0.216% |
| 99  | 17.356 | 2589 | 2596 | 2604 | rVB  | 201196  | 428443  | 11.15% | 0.886% |
| 100 | 17.586 | 2630 | 2635 | 2640 | rBV  | 53309   | 107298  | 2.79%  | 0.222% |

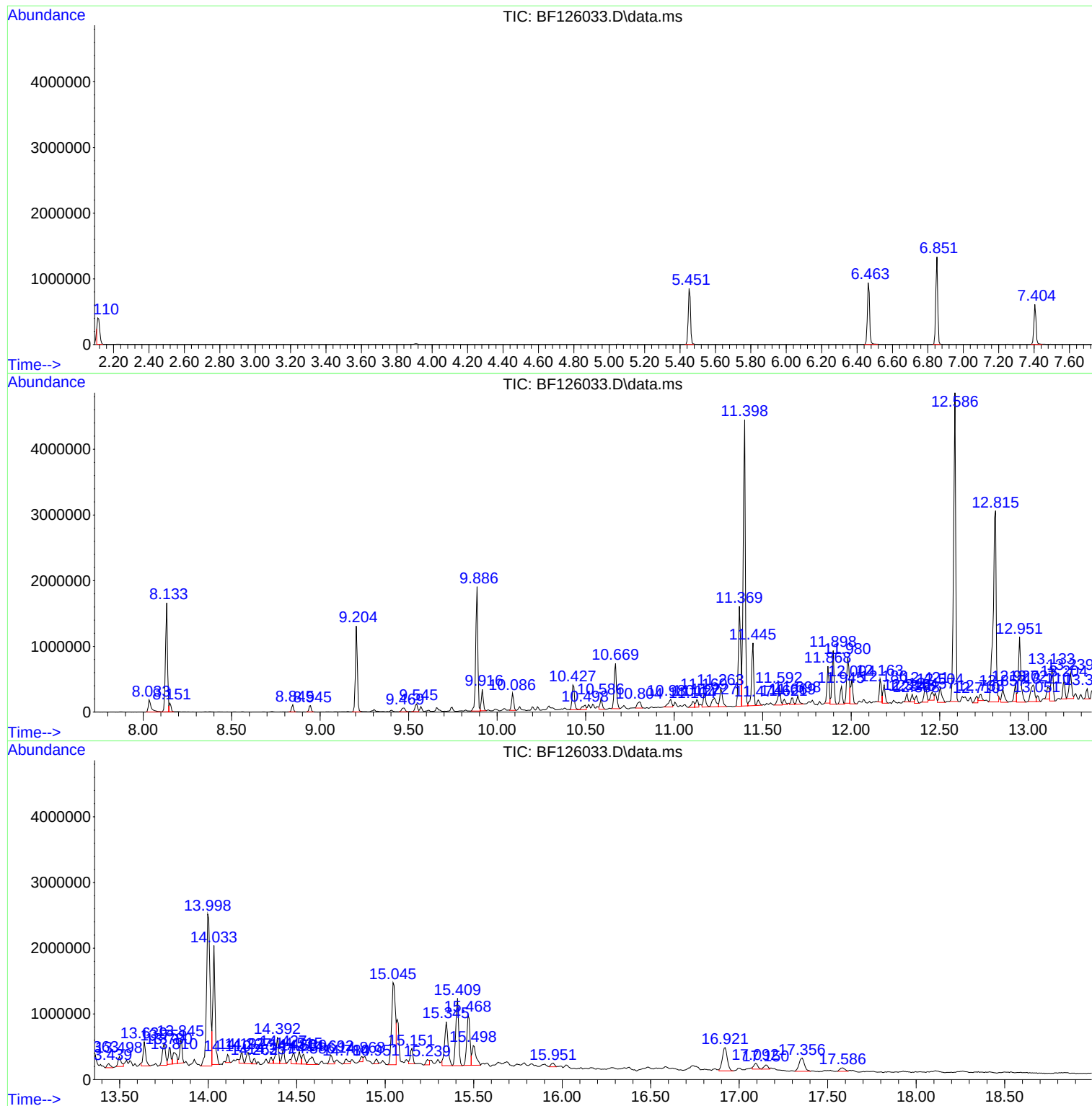
Sum of corrected areas: 48383150

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Instrument :  
BNA\_F  
ClientSampleId :  
SP-2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF110321.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF110321\  
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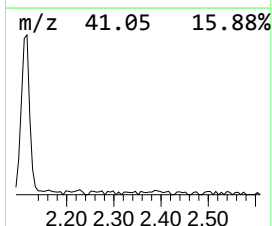
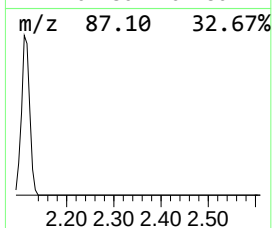
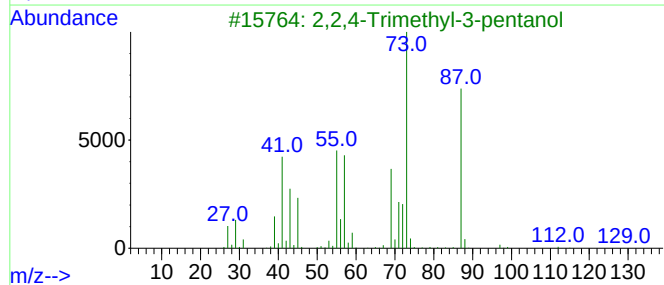
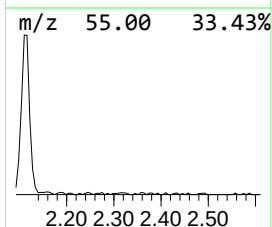
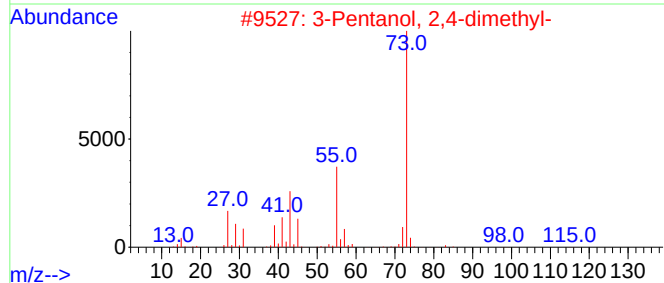
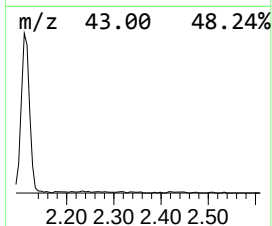
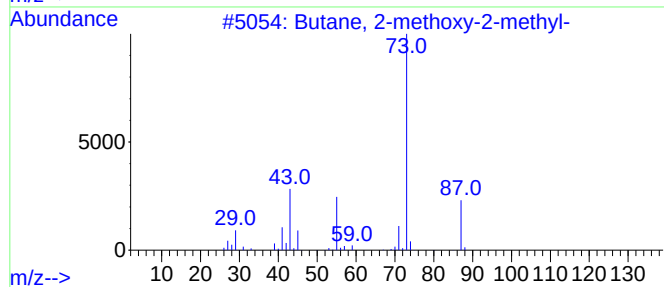
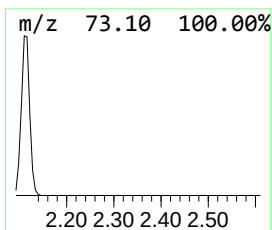
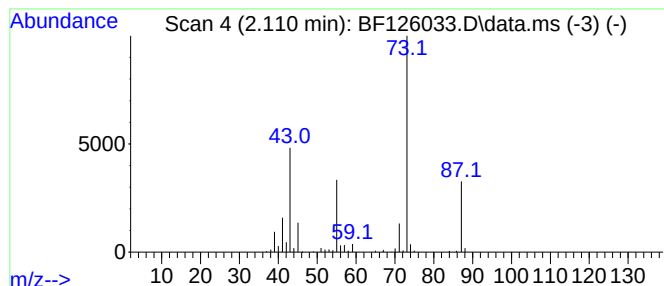
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF110321.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 4

| R.T.  | EstConc | Area   | Relative to ISTD       | R.T.  |
|-------|---------|--------|------------------------|-------|
| 2.110 | 7.36 ng | 372929 | 1,4-Dichlorobenzene-d4 | 6.851 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|----------|-------------|------|
| 1    |    |   | Butane, 2-methoxy-2-methyl-         | 102 | C6H14O   | 000994-05-8 | 90   |
| 2    |    |   | 3-Pentanol, 2,4-dimethyl-           | 116 | C7H16O   | 000600-36-2 | 38   |
| 3    |    |   | 2,2,4-Trimethyl-3-pentanol          | 130 | C8H18O   | 005162-48-1 | 36   |
| 4    |    |   | Boronic acid, ethyl-, dimethyl e... | 102 | C4H11BO2 | 007318-82-3 | 25   |
| 5    |    |   | 3-Pentanol, 3-methyl-               | 102 | C6H14O   | 000077-74-7 | 12   |



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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

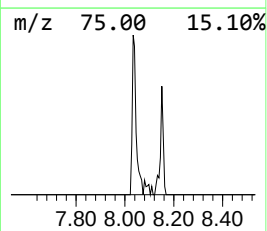
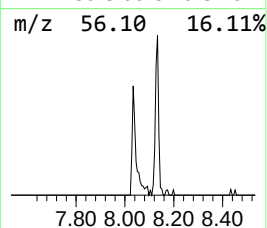
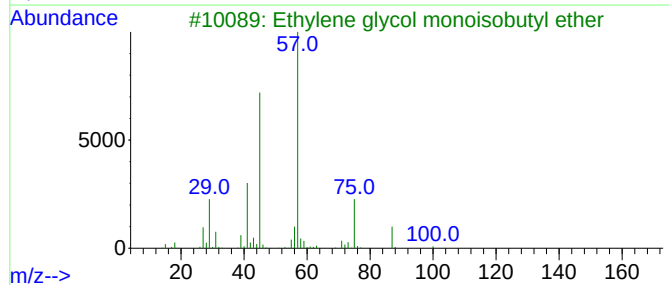
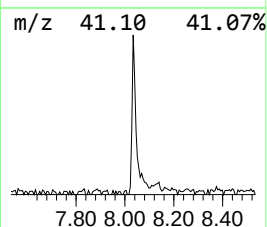
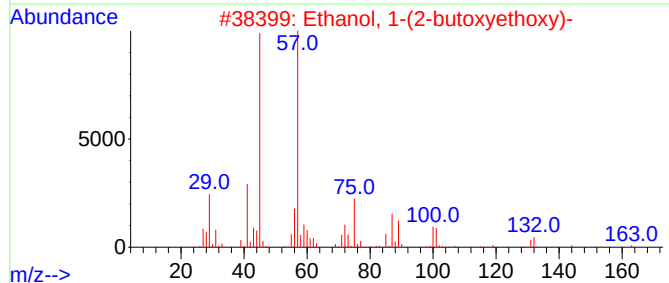
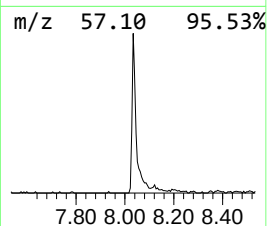
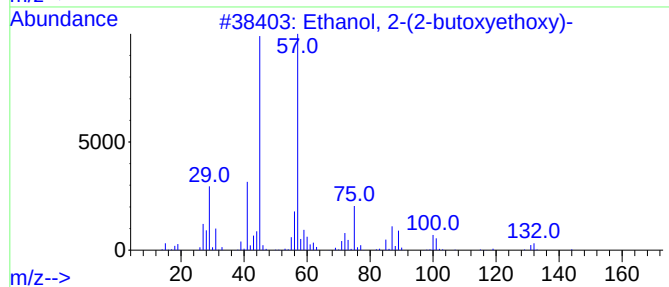
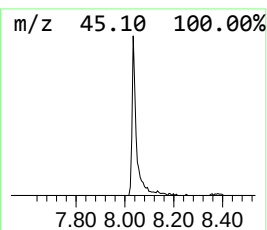
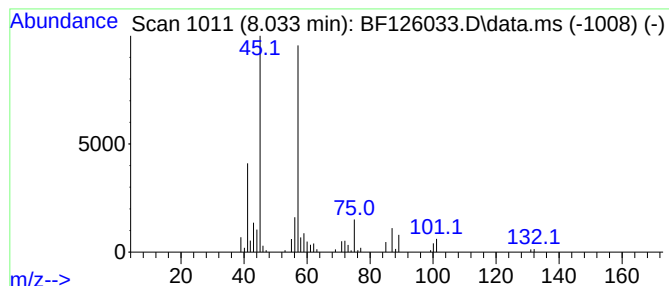
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 2 Ethanol, 2-(2-butoxyethoxy)- Concentration Rank 14

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 8.033 | 3.37 ng | 221670 | Naphthalene-d8   | 8.133 |

| Hit# | of | 5 | Tentative ID                       | MW  | MolForm  | CAS#         | Qual |
|------|----|---|------------------------------------|-----|----------|--------------|------|
| 1    |    |   | Ethanol, 2-(2-butoxyethoxy)-       | 162 | C8H18O3  | 000112-34-5  | 83   |
| 2    |    |   | Ethanol, 1-(2-butoxyethoxy)-       | 162 | C8H18O3  | 054446-78-5  | 78   |
| 3    |    |   | Ethylene glycol monoisobutyl ether | 118 | C6H14O2  | 004439-24-1  | 59   |
| 4    |    |   | DL-Lactamide, butyl ether          | 145 | C7H15NO2 | 1000452-56-5 | 53   |
| 5    |    |   | 3,3-Dimethylbutane-2-ol            | 102 | C6H14O   | 000464-07-3  | 53   |



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Data File : BF126033.D  
Acq On : 3 Nov 2021 22:32  
Operator : JU/CG  
Sample : M4470-04 5X  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
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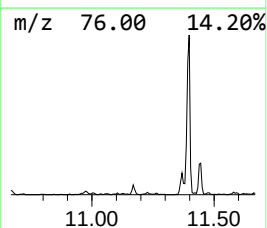
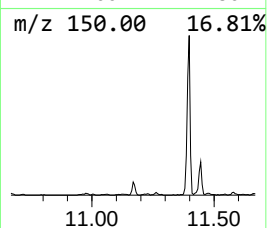
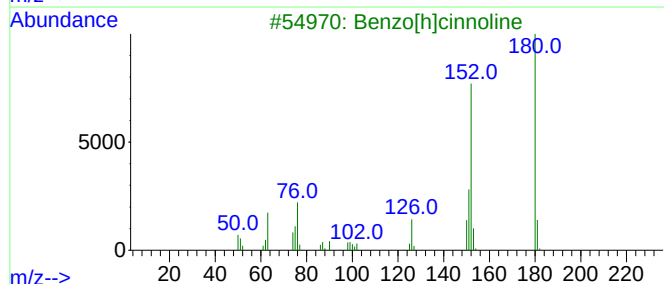
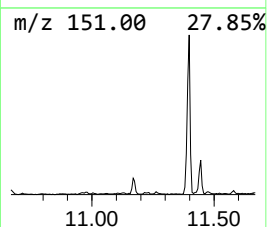
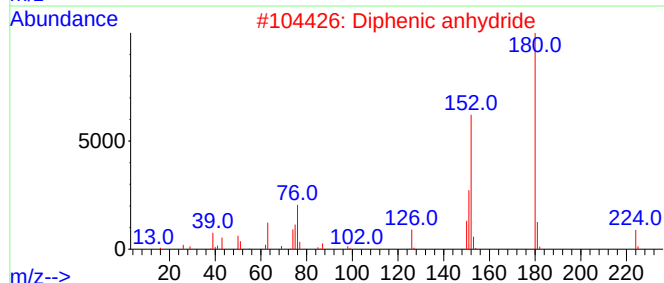
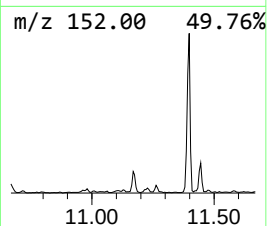
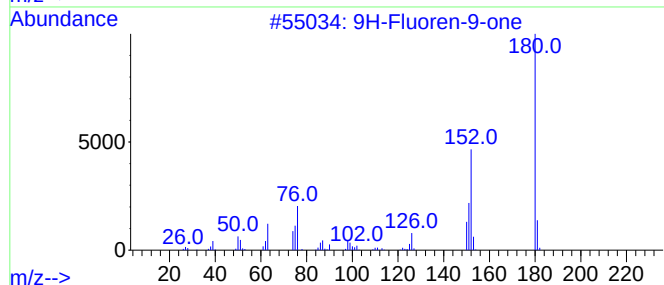
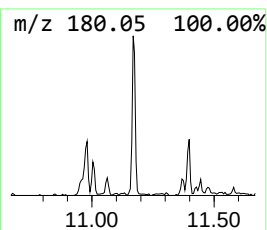
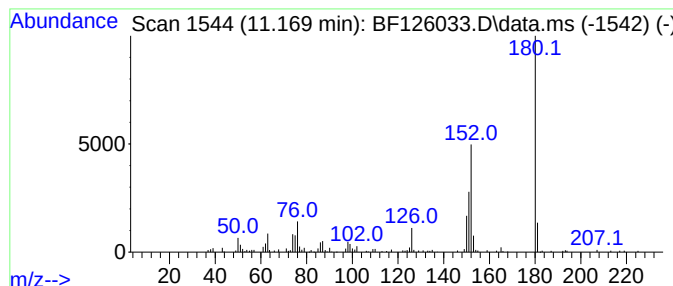
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 3 9H-Fluoren-9-one Concentration Rank 16

| R.T.      | EstConc                | Area   | Relative to ISTD | R.T.        |      |
|-----------|------------------------|--------|------------------|-------------|------|
| 11.169    | 2.92 ng                | 203699 | Phenanthrene-d10 | 11.368      |      |
| Hit# of 5 | Tentative ID           | MW     | MolForm          | CAS#        | Qual |
| 1         | 9H-Fluoren-9-one       | 180    | C13H8O           | 000486-25-9 | 94   |
| 2         | Diphenic anhydride     | 224    | C14H8O3          | 006050-13-1 | 90   |
| 3         | Benzo[h]cinnoline      | 180    | C12H8N2          | 000230-31-9 | 87   |
| 4         | 9,10-Phenanthrenedione | 208    | C14H8O2          | 000084-11-7 | 83   |
| 5         | 1H-Phenalen-1-one      | 180    | C13H8O           | 000548-39-0 | 50   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF110321\  
Data File : BF126033.D  
Acq On : 3 Nov 2021 22:32  
Operator : JU/CG  
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Misc :  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
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ClientSampleId :  
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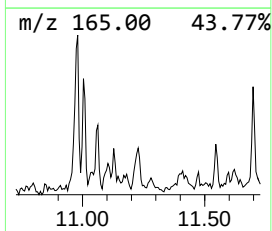
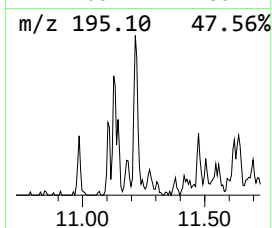
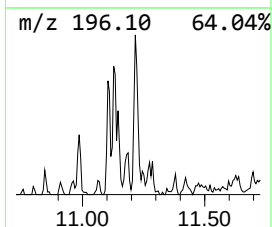
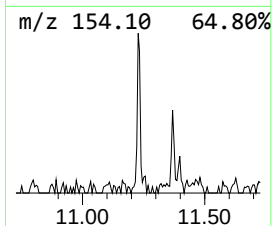
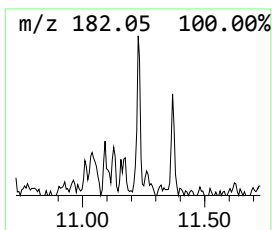
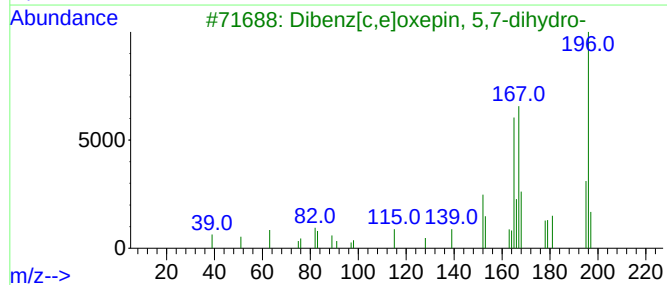
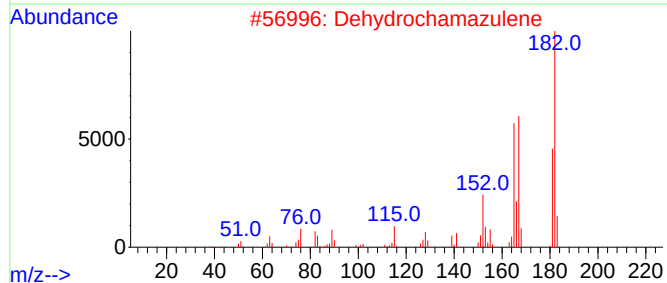
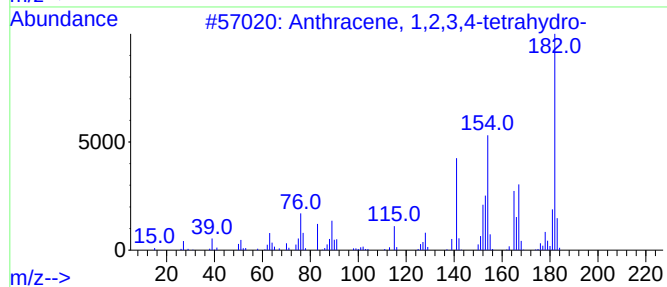
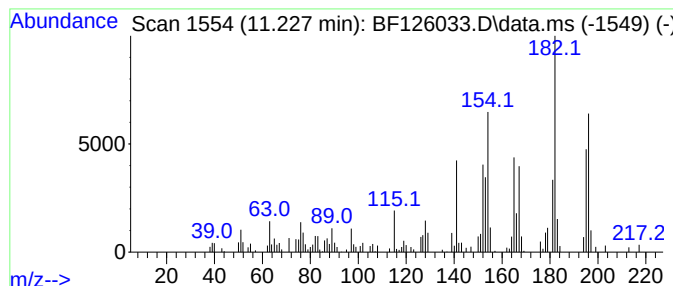
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 4 Anthracene, 1,2,3,4-tetrahy... Concentration Rank 13

| R.T.      | EstConc                           | Area   | Relative to ISTD |         | R.T.        |      |
|-----------|-----------------------------------|--------|------------------|---------|-------------|------|
| 11.227    | 3.41 ng                           | 237248 | Phenanthrene-d10 |         | 11.368      |      |
| Hit# of 5 | Tentative ID                      |        | MW               | MolForm | CAS#        | Qual |
| 1         | Anthracene, 1,2,3,4-tetrahydro-   |        | 182              | C14H14  | 002141-42-6 | 91   |
| 2         | Dehydrochamazulene                |        | 182              | C14H14  | 321732-25-6 | 87   |
| 3         | Dibenz[c,e]oxepin, 5,7-dihydro-   |        | 196              | C14H12O | 001136-22-7 | 51   |
| 4         | Phenanthrene, 1,2,3,4-tetrahydro- |        | 182              | C14H14  | 001013-08-7 | 50   |
| 5         | 1,1'-Biphenyl, 3,4'-dimethyl-     |        | 182              | C14H14  | 007383-90-6 | 46   |





Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF110321\  
Data File : BF126033.D  
Acq On : 3 Nov 2021 22:32  
Operator : JU/CG  
Sample : M4470-04 5X  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
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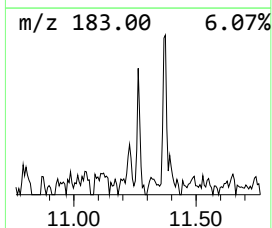
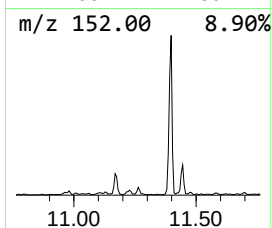
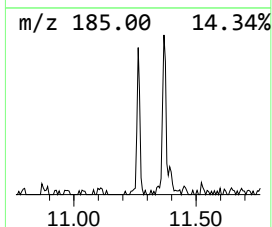
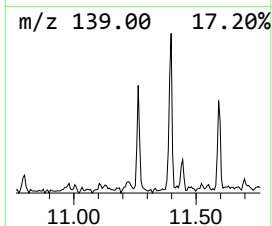
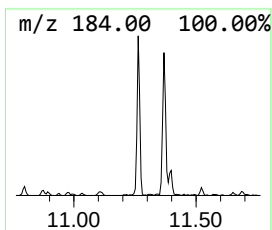
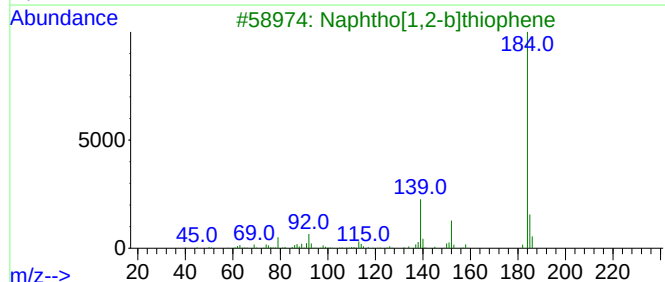
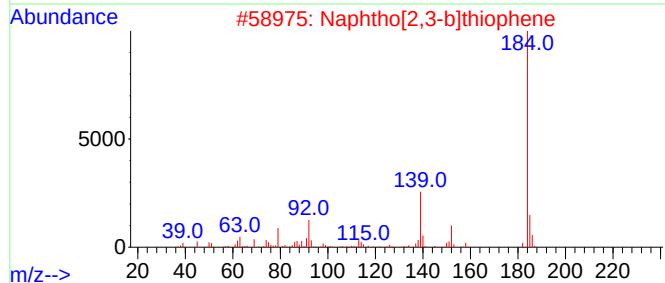
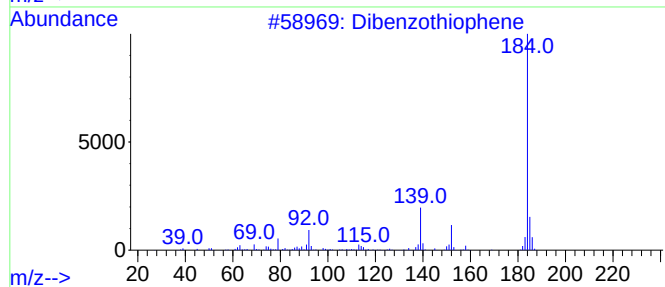
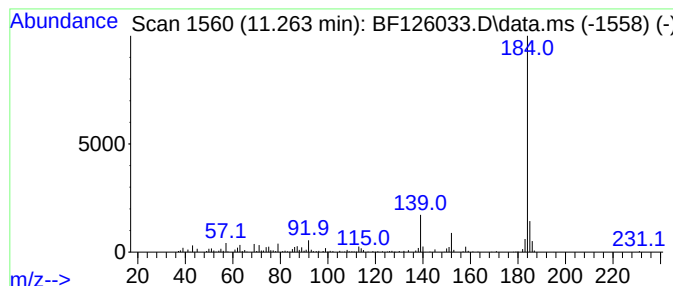
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 5 Dibenzothiophene Concentration Rank 9

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 11.263 | 4.11 ng | 285991 | Phenanthrene-d10 | 11.368 |

| Hit# | of | 5 | Tentative ID              | MW  | MolForm | CAS#        | Qual |
|------|----|---|---------------------------|-----|---------|-------------|------|
| 1    |    |   | Dibenzothiophene          | 184 | C12H8S  | 000132-65-0 | 96   |
| 2    |    |   | Naphtho[2,3-b]thiophene   | 184 | C12H8S  | 000268-77-9 | 91   |
| 3    |    |   | Naphtho[1,2-b]thiophene   | 184 | C12H8S  | 000234-41-3 | 91   |
| 4    |    |   | Azuleno(2,1-b)thiophene   | 184 | C12H8S  | 000248-13-5 | 91   |
| 5    |    |   | 1,1'-Biphenyl, 2-methoxy- | 184 | C13H12O | 000086-26-0 | 72   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF110321\  
Data File : BF126033.D  
Acq On : 3 Nov 2021 22:32  
Operator : JU/CG  
Sample : M4470-04 5X  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
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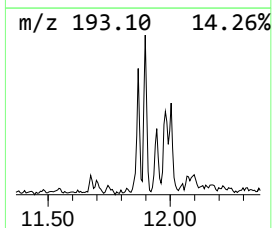
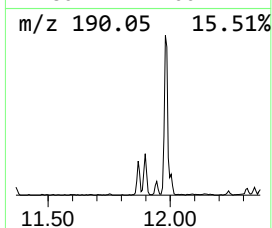
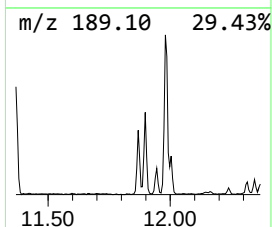
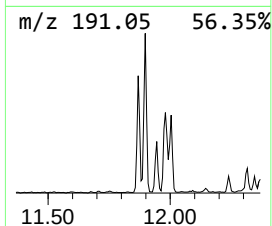
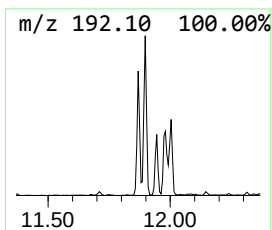
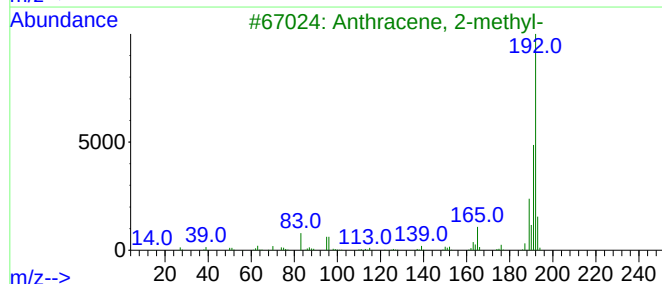
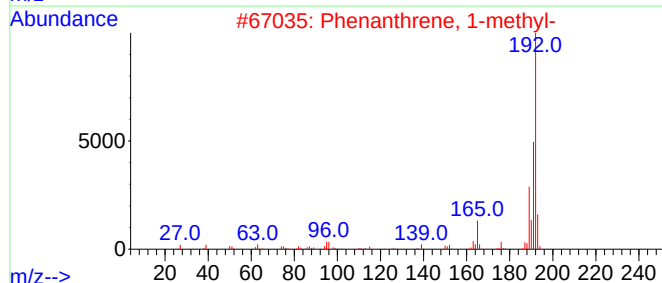
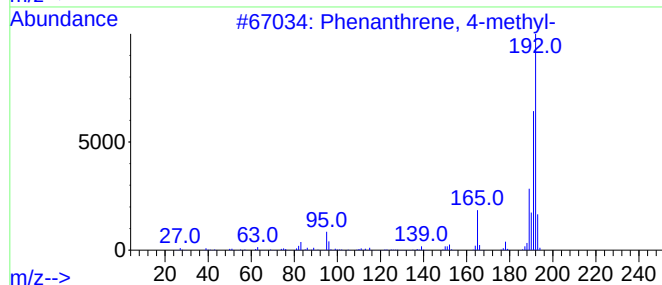
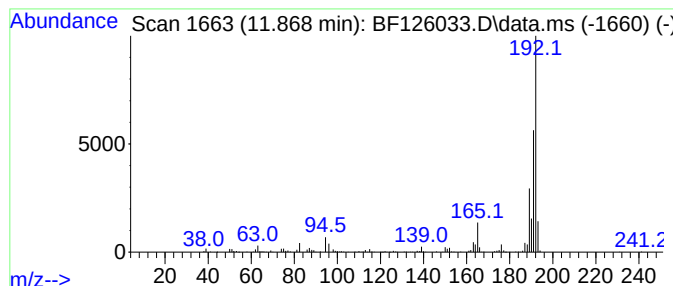
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 6 Phenanthrene, 4-methyl- Concentration Rank 5

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 11.868 | 6.31 ng | 439325 | Phenanthrene-d10 | 11.368 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Phenanthrene, 4-methyl-             | 192 | C15H12  | 000832-64-4 | 94   |
| 2    |    |   | Phenanthrene, 1-methyl-             | 192 | C15H12  | 000832-69-9 | 93   |
| 3    |    |   | Anthracene, 2-methyl-               | 192 | C15H12  | 000613-12-7 | 93   |
| 4    |    |   | Anthracene, 1-methyl-               | 192 | C15H12  | 000610-48-0 | 93   |
| 5    |    |   | 1H-Cyclopropa[1]phenanthrene,1a,... | 192 | C15H12  | 000949-41-7 | 93   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF110321\  
Data File : BF126033.D  
Acq On : 3 Nov 2021 22:32  
Operator : JU/CG  
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Misc :  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
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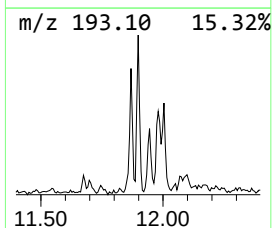
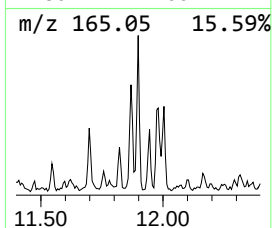
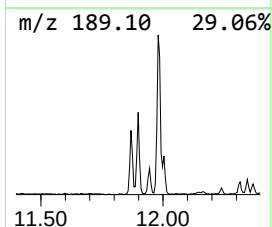
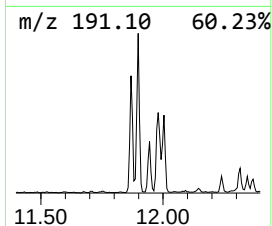
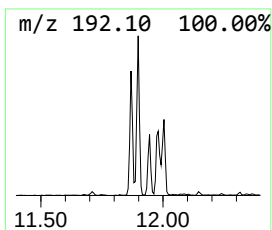
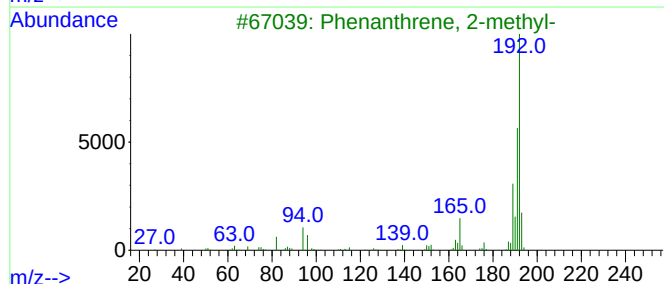
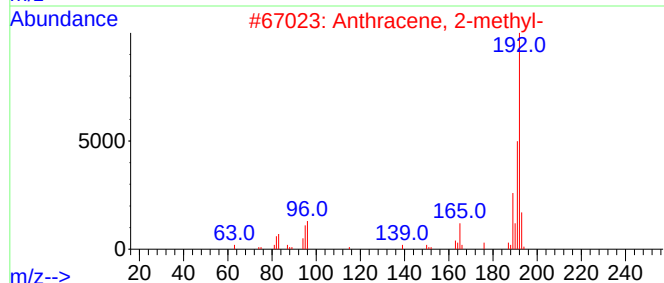
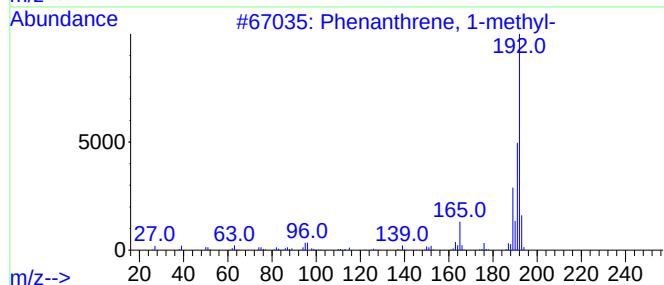
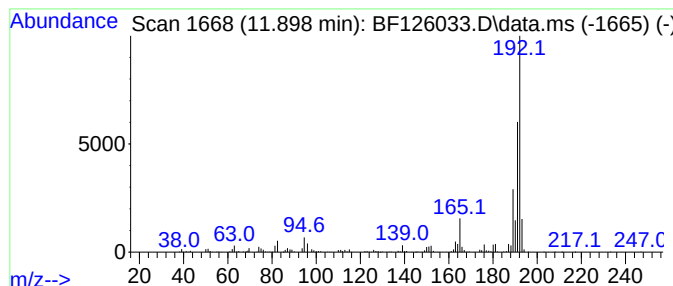
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 7 Phenanthrene, 1-methyl- Concentration Rank 3

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 11.898 | 9.03 ng | 629228 | Phenanthrene-d10 | 11.368 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Phenanthrene, 1-methyl-             | 192 | C15H12  | 000832-69-9 | 96   |
| 2    |    |   | Anthracene, 2-methyl-               | 192 | C15H12  | 000613-12-7 | 95   |
| 3    |    |   | Phenanthrene, 2-methyl-             | 192 | C15H12  | 002531-84-2 | 95   |
| 4    |    |   | 1H-Cyclopropa[1]phenanthrene,1a,... | 192 | C15H12  | 000949-41-7 | 93   |
| 5    |    |   | Anthracene, 9-methyl-               | 192 | C15H12  | 000779-02-2 | 91   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF110321\  
Data File : BF126033.D  
Acq On : 3 Nov 2021 22:32  
Operator : JU/CG  
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Misc :  
ALS Vial : 20 Sample Multiplier: 1

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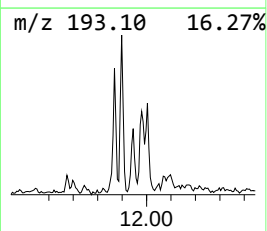
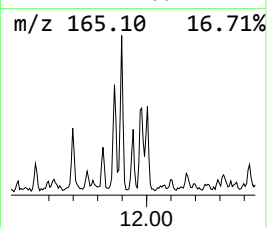
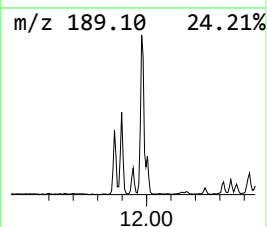
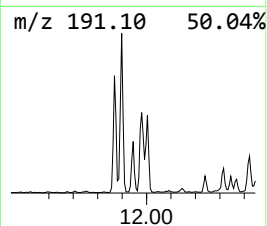
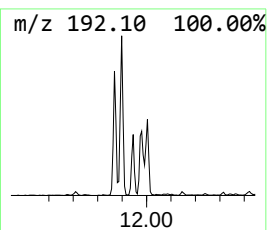
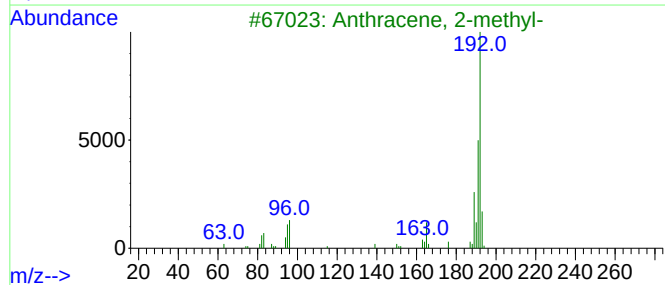
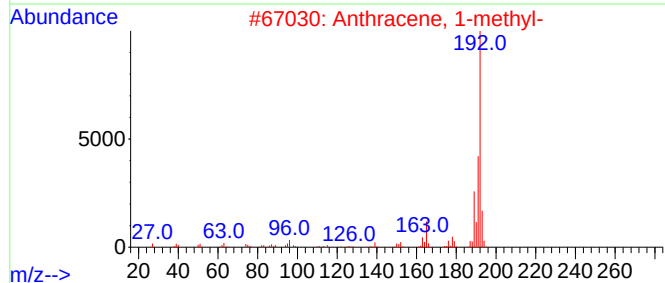
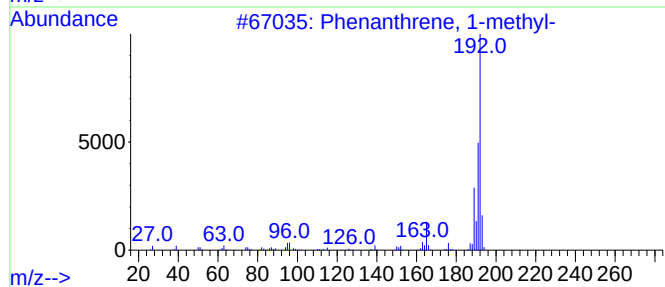
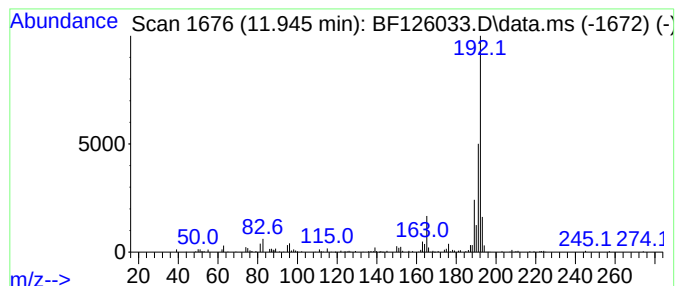
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TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 8 Anthracene, 1-methyl- Concentration Rank 12

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 11.945 | 3.41 ng | 237249 | Phenanthrene-d10 | 11.368 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Phenanthrene, 1-methyl-             | 192 | C15H12  | 000832-69-9 | 96   |
| 2    |    |   | Anthracene, 1-methyl-               | 192 | C15H12  | 000610-48-0 | 96   |
| 3    |    |   | Anthracene, 2-methyl-               | 192 | C15H12  | 000613-12-7 | 95   |
| 4    |    |   | Phenanthrene, 2-methyl-             | 192 | C15H12  | 002531-84-2 | 94   |
| 5    |    |   | 1H-Cyclopropa[1]phenanthrene,1a,... | 192 | C15H12  | 000949-41-7 | 94   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF110321\  
Data File : BF126033.D  
Acq On : 3 Nov 2021 22:32  
Operator : JU/CG  
Sample : M4470-04 5X  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SP-2

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

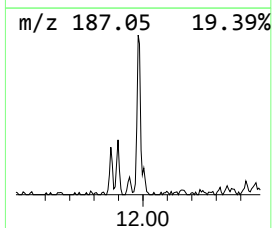
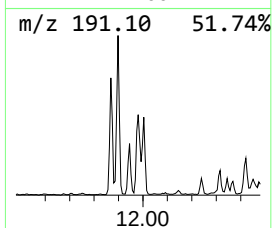
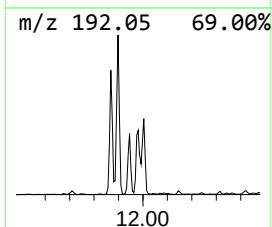
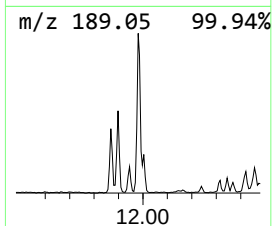
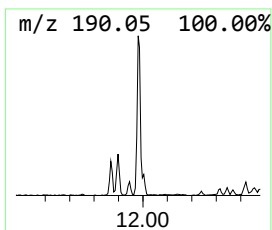
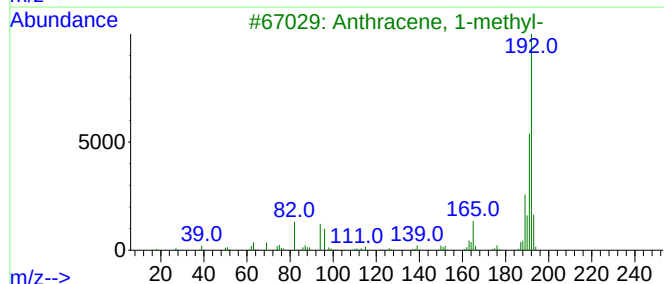
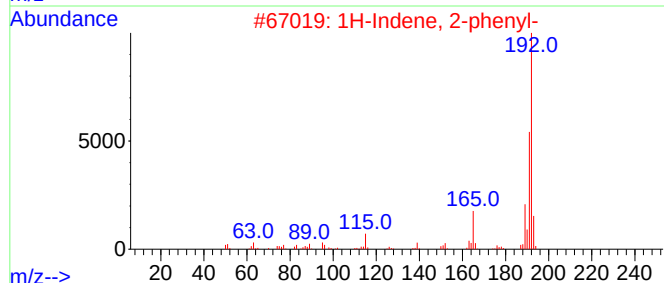
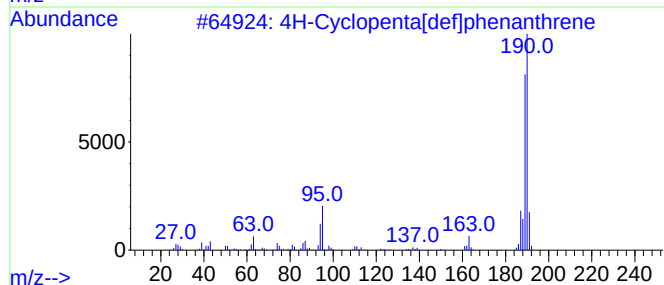
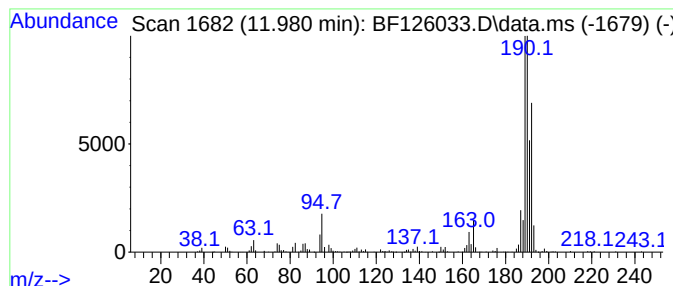
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TIC Integration Parameters: LSCINT.P

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Peak Number 9 4H-Cyclopenta[def]phenanthrene Concentration Rank 2

| R.T.   | EstConc  | Area   | Relative to ISTD | R.T.   |
|--------|----------|--------|------------------|--------|
| 11.980 | 10.04 ng | 699466 | Phenanthrene-d10 | 11.368 |

| Hit# | of | 5 | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|---|--------------------------------|-----|---------|-------------|------|
| 1    |    |   | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10  | 000203-64-5 | 83   |
| 2    |    |   | 1H-Indene, 2-phenyl-           | 192 | C15H12  | 004505-48-0 | 38   |
| 3    |    |   | Anthracene, 1-methyl-          | 192 | C15H12  | 000610-48-0 | 38   |
| 4    |    |   | Propyne, 1,3-diphenyl-         | 192 | C15H12  | 004980-70-5 | 38   |
| 5    |    |   | Phenanthrene, 4-methyl-        | 192 | C15H12  | 000832-64-4 | 38   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF110321\  
Data File : BF126033.D  
Acq On : 3 Nov 2021 22:32  
Operator : JU/CG  
Sample : M4470-04 5X  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SP-2

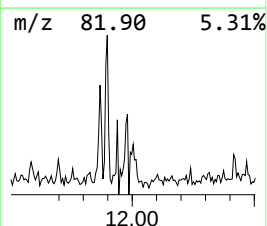
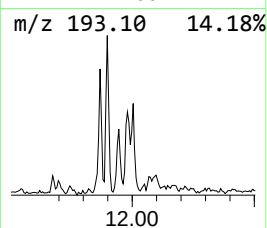
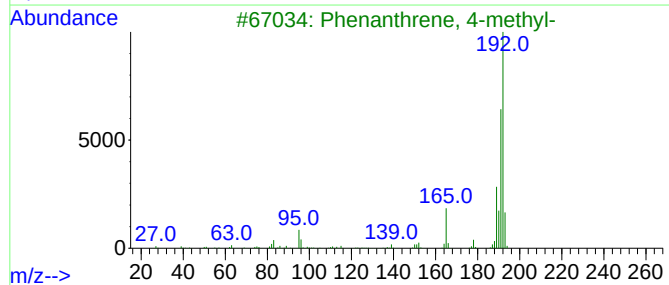
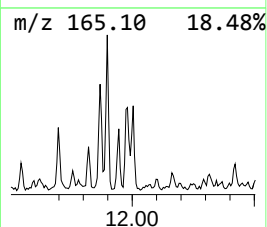
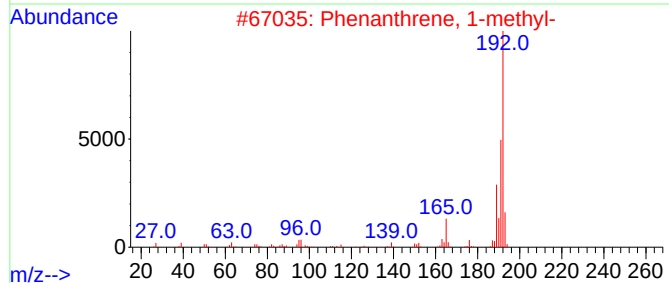
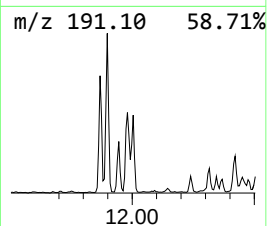
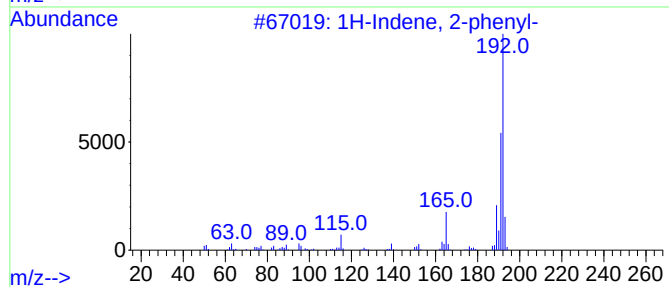
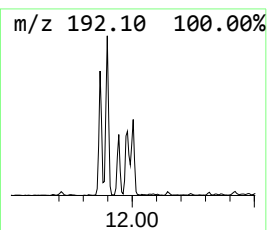
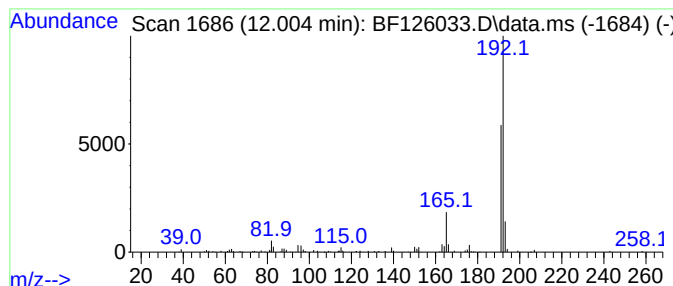
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 10 1H-Indene, 2-phenyl- Concentration Rank 7

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 12.004 | 4.20 ng | 292760 | Phenanthrene-d10 | 11.368 |

| Hit# | of 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|------|-------------------------------------|-----|---------|-------------|------|
| 1    |      | 1H-Indene, 2-phenyl-                | 192 | C15H12  | 004505-48-0 | 94   |
| 2    |      | Phenanthrene, 1-methyl-             | 192 | C15H12  | 000832-69-9 | 94   |
| 3    |      | Phenanthrene, 4-methyl-             | 192 | C15H12  | 000832-64-4 | 93   |
| 4    |      | Phenanthrene, 2-methyl-             | 192 | C15H12  | 002531-84-2 | 91   |
| 5    |      | 1H-Cyclopropa[1]phenanthrene,1a,... | 192 | C15H12  | 000949-41-7 | 91   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF110321\  
Data File : BF126033.D  
Acq On : 3 Nov 2021 22:32  
Operator : JU/CG  
Sample : M4470-04 5X  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SP-2

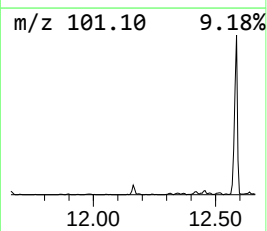
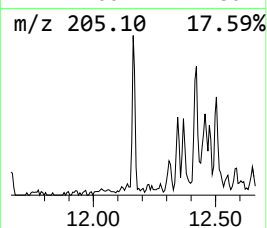
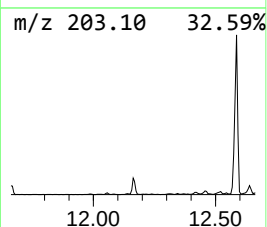
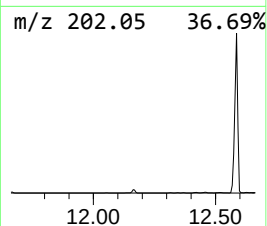
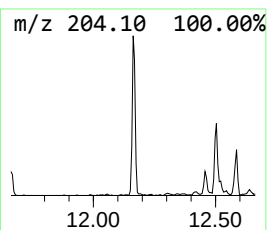
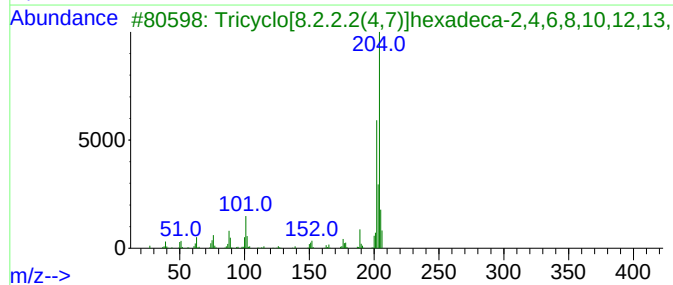
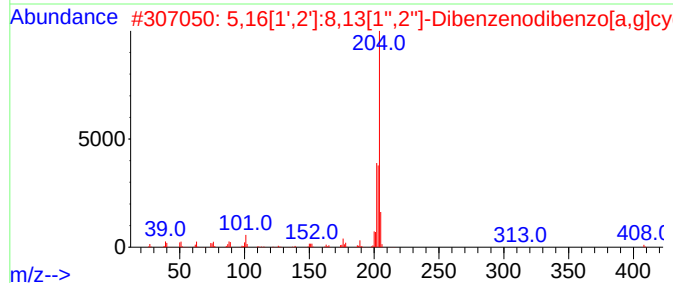
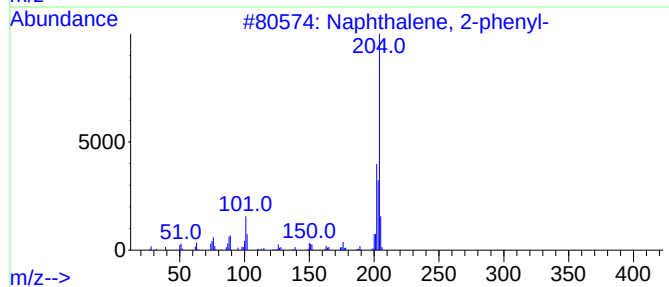
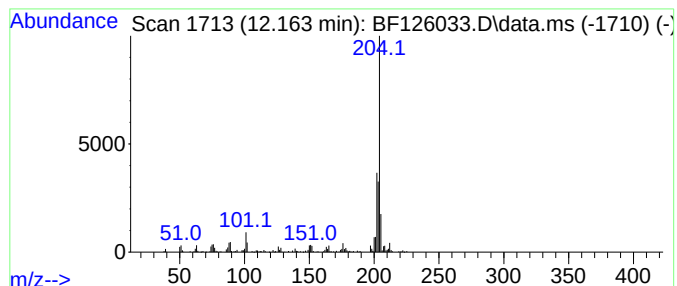
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 11 Naphthalene, 2-phenyl- Concentration Rank 8

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 12.163 | 4.20 ng | 292438 | Phenanthrene-d10 | 11.368 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm   | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|-----------|-------------|------|
| 1    |    |   | Naphthalene, 2-phenyl-              | 204 | C16H12    | 000612-94-2 | 89   |
| 2    |    |   | 5,16[1',2']:8,13[1'',2'']-Dibenz... | 408 | C32H24    | 005672-97-9 | 86   |
| 3    |    |   | Tricyclo[8.2.2.2(4,7)]hexadeca-2... | 204 | C16H12    | 006572-60-7 | 81   |
| 4    |    |   | 9,10-Bis(bromomethyl)anthracene     | 362 | C16H12Br2 | 034373-96-1 | 58   |
| 5    |    |   | Naphthalene, 1-phenyl-              | 204 | C16H12    | 000605-02-7 | 53   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF110321\  
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Operator : JU/CG  
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Misc :  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SP-2

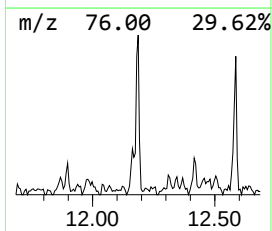
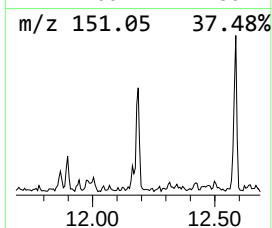
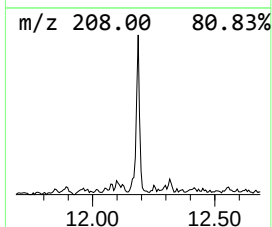
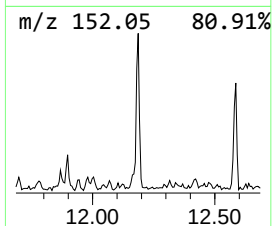
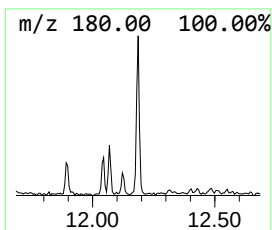
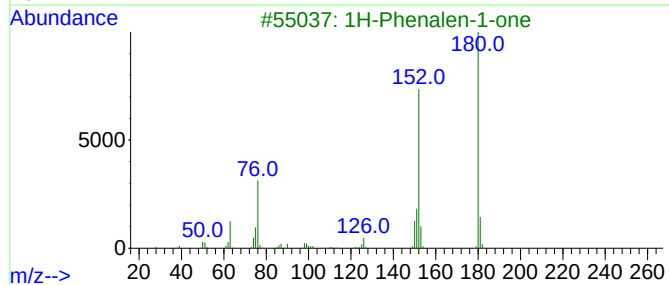
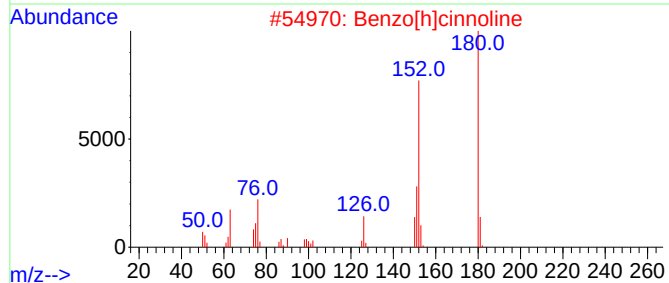
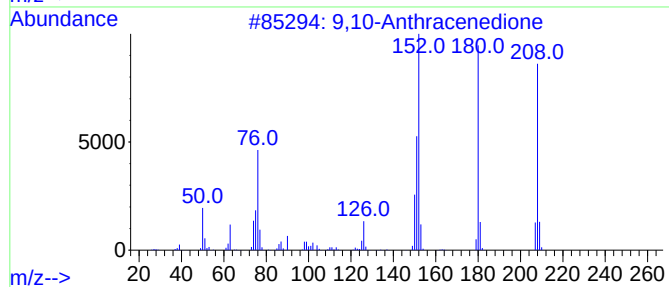
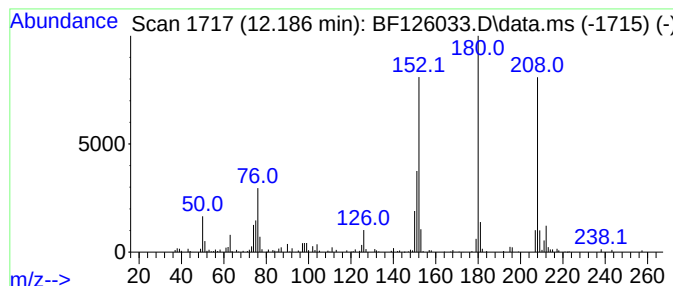
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 12 9,10-Anthracenedione Concentration Rank 15

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 12.186 | 3.27 ng | 227497 | Phenanthrene-d10 | 11.368 |

| Hit# | of | 5 | Tentative ID         | MW  | MolForm | CAS#        | Qual |
|------|----|---|----------------------|-----|---------|-------------|------|
| 1    |    |   | 9,10-Anthracenedione | 208 | C14H8O2 | 000084-65-1 | 99   |
| 2    |    |   | Benzo[h]cinnoline    | 180 | C12H8N2 | 000230-31-9 | 83   |
| 3    |    |   | 1H-Phenalen-1-one    | 180 | C13H8O  | 000548-39-0 | 64   |
| 4    |    |   | Benzo[c]cinnoline    | 180 | C12H8N2 | 000230-17-1 | 64   |
| 5    |    |   | 9H-Fluoren-9-one     | 180 | C13H8O  | 000486-25-9 | 58   |





Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF110321\  
Data File : BF126033.D  
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Sample : M4470-04 5X  
Misc :  
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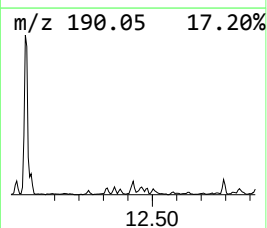
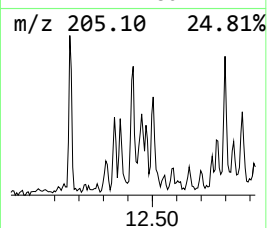
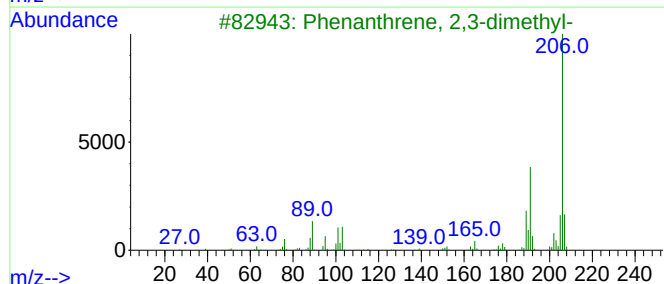
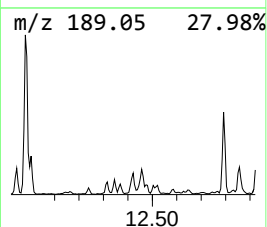
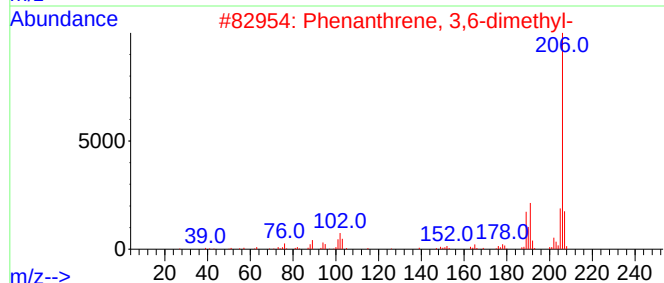
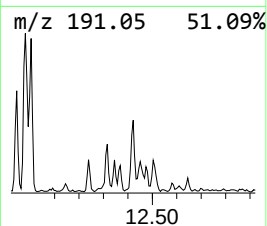
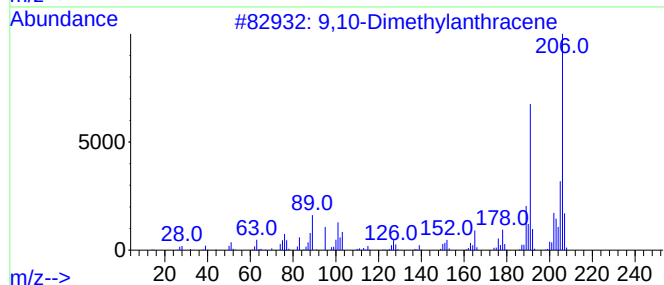
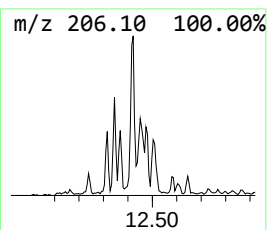
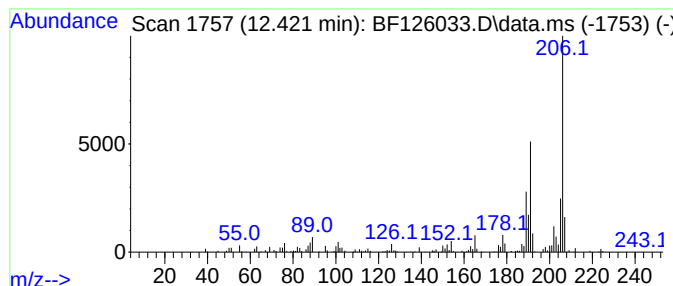
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BNA\_F  
ClientSampleId :  
SP-2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF110321.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 13 9,10-Dimethylantracene Concentration Rank 10

| R.T.   | EstConc | Area                        | Relative to ISTD |         | R.T.        |      |
|--------|---------|-----------------------------|------------------|---------|-------------|------|
| 12.421 | 3.66 ng | 254817                      | Phenanthrene-d10 |         | 11.368      |      |
| Hit#   | of 5    | Tentative ID                | MW               | MolForm | CAS#        | Qual |
| 1      |         | 9,10-Dimethylantracene      | 206              | C16H14  | 000781-43-1 | 91   |
| 2      |         | Phenanthrene, 3,6-dimethyl- | 206              | C16H14  | 001576-67-6 | 91   |
| 3      |         | Phenanthrene, 2,3-dimethyl- | 206              | C16H14  | 003674-65-5 | 90   |
| 4      |         | Phenanthrene, 1,7-dimethyl- | 206              | C16H14  | 000483-87-4 | 81   |
| 5      |         | di-p-Tolylacetylene         | 206              | C16H14  | 002789-88-0 | 80   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF110321\  
Data File : BF126033.D  
Acq On : 3 Nov 2021 22:32  
Operator : JU/CG  
Sample : M4470-04 5X  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SP-2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF110321.M  
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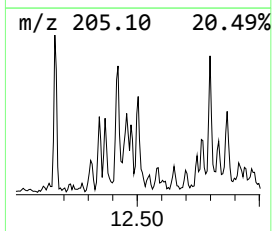
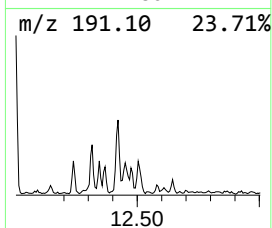
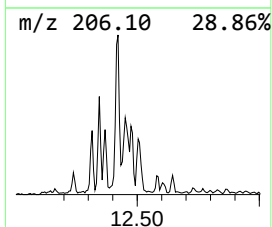
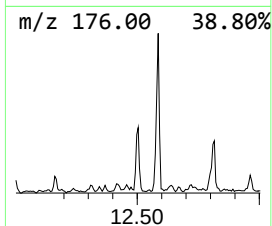
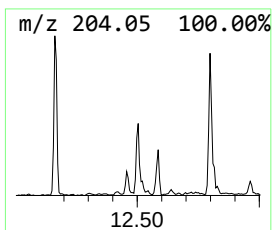
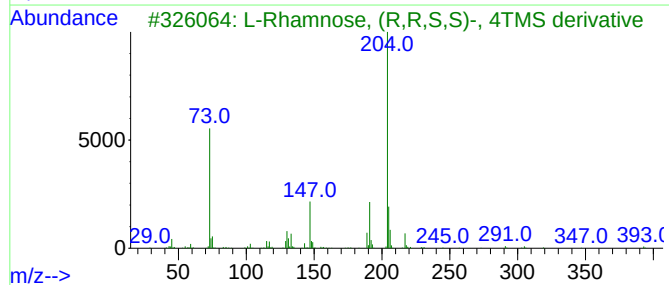
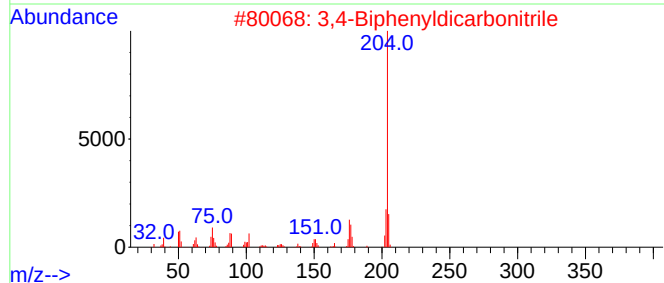
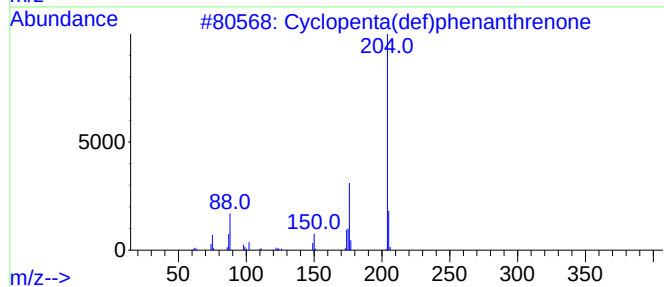
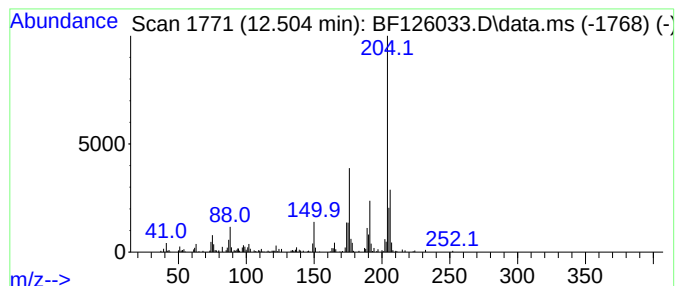
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 14 Cyclopenta(def)phenanthrenone Concentration Rank 11

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 12.504 | 3.59 ng | 250239 | Phenanthrene-d10 | 11.368 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm     | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|-------------|--------------|------|
| 1    |    |   | Cyclopenta(def)phenanthrenone       | 204 | C15H8O      | 005737-13-3  | 89   |
| 2    |    |   | 3,4-Biphenyldicarbonitrile          | 204 | C14H8N2     | 004128-63-6  | 47   |
| 3    |    |   | L-Rhamnose, (R,R,S,S)-, 4TMS der... | 452 | C18H44O5Si4 | 108392-01-4  | 47   |
| 4    |    |   | Tricyclo[5.1.0.0(2,4)]octane, 5-... | 247 | C17H29N     | 1000063-59-3 | 47   |
| 5    |    |   | L-Rhamnose, 4TMS derivative         | 452 | C18H44O5Si4 | 019127-15-2  | 47   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF110321\  
Data File : BF126033.D  
Acq On : 3 Nov 2021 22:32  
Operator : JU/CG  
Sample : M4470-04 5X  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SP-2

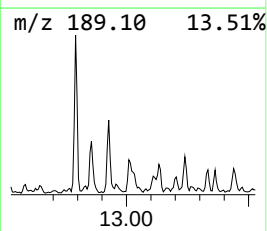
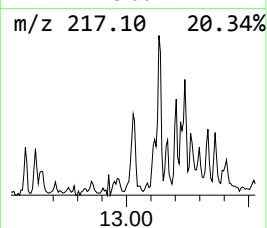
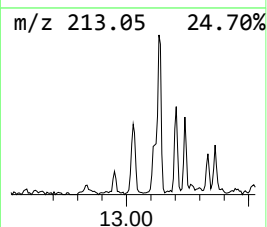
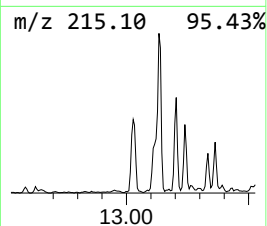
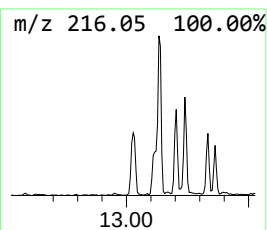
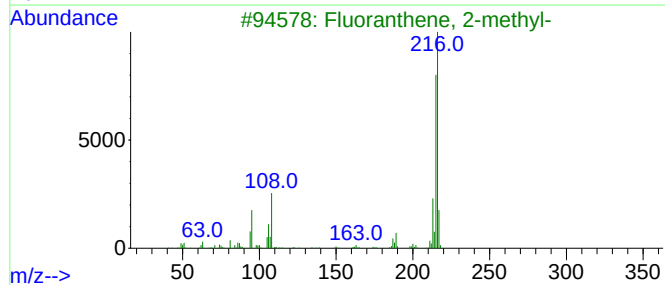
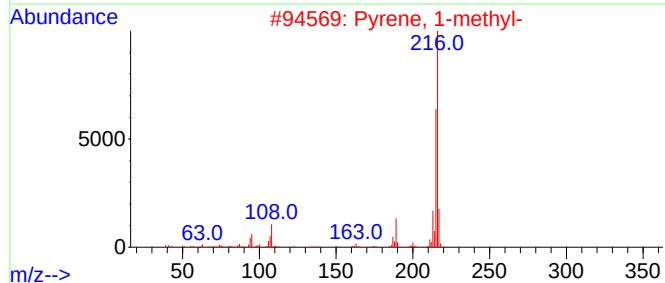
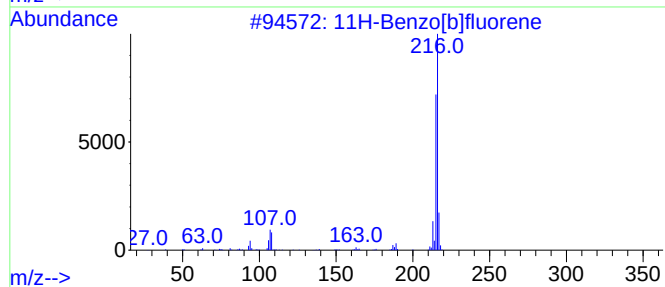
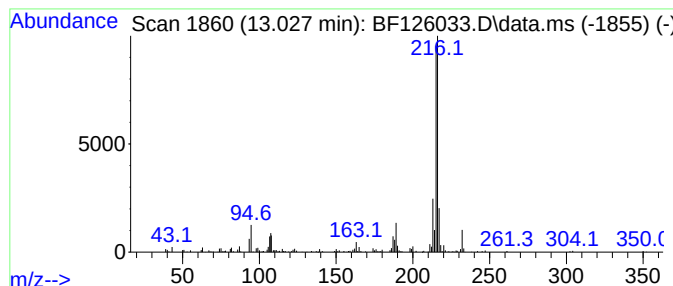
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 15 Fluoranthene, 2-methyl- Concentration Rank 20

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 13.027 | 2.47 ng | 407877 | Chrysene-d12     | 14.009 |

| Hit# | of | 5 | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------|-----|---------|-------------|------|
| 1    |    |   | 11H-Benzo[b]fluorene    | 216 | C17H12  | 000243-17-4 | 93   |
| 2    |    |   | Pyrene, 1-methyl-       | 216 | C17H12  | 002381-21-7 | 91   |
| 3    |    |   | Fluoranthene, 2-methyl- | 216 | C17H12  | 033543-31-6 | 87   |
| 4    |    |   | 11H-Benzo[a]fluorene    | 216 | C17H12  | 000238-84-6 | 83   |
| 5    |    |   | 7H-Benzo[c]fluorene     | 216 | C17H12  | 000205-12-9 | 72   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF110321\  
Data File : BF126033.D  
Acq On : 3 Nov 2021 22:32  
Operator : JU/CG  
Sample : M4470-04 5X  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SP-2

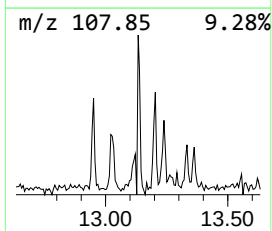
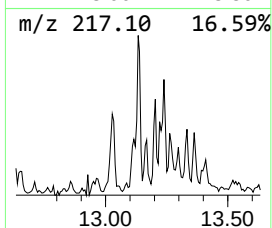
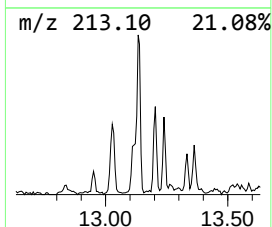
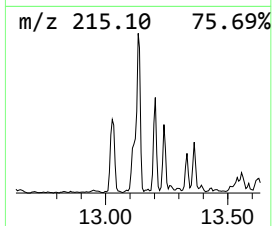
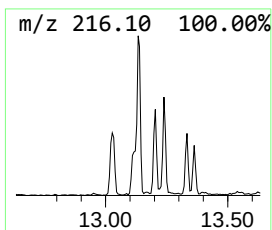
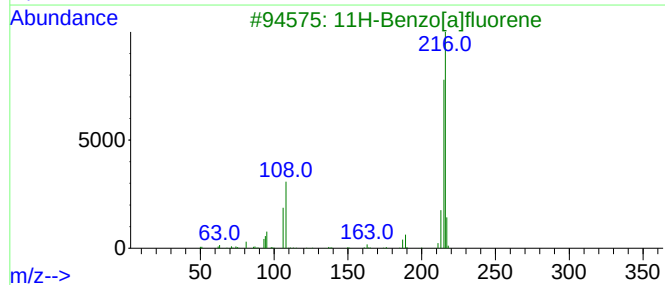
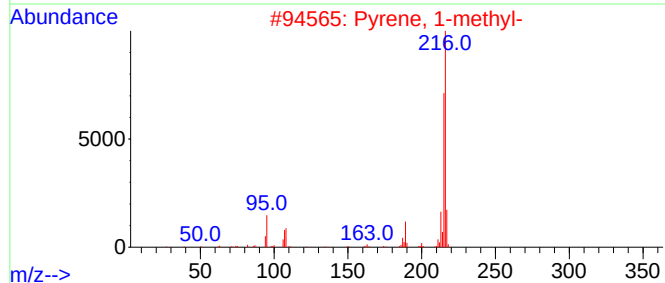
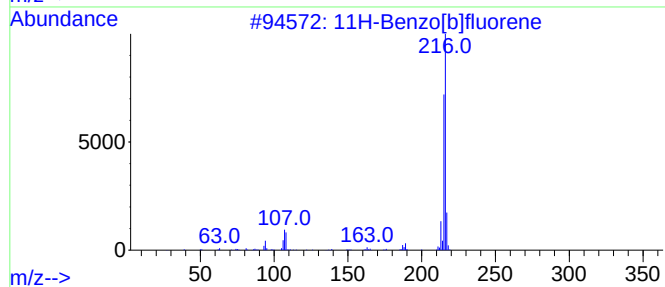
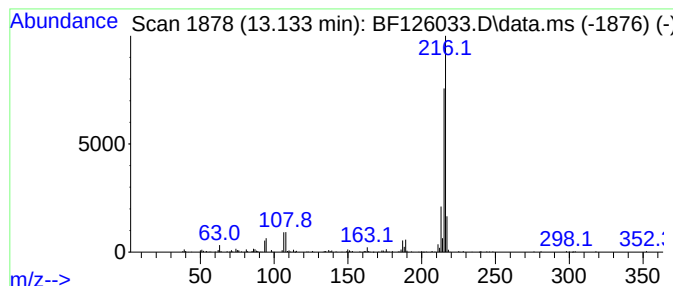
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 16 11H-Benzo[b]fluorene Concentration Rank 17

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 13.133 | 2.79 ng | 462084 | Chrysene-d12     | 14.009 |

| Hit# | of | 5 | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------|-----|---------|-------------|------|
| 1    |    |   | 11H-Benzo[b]fluorene    | 216 | C17H12  | 000243-17-4 | 94   |
| 2    |    |   | Pyrene, 1-methyl-       | 216 | C17H12  | 002381-21-7 | 93   |
| 3    |    |   | 11H-Benzo[a]fluorene    | 216 | C17H12  | 000238-84-6 | 91   |
| 4    |    |   | Fluoranthene, 2-methyl- | 216 | C17H12  | 033543-31-6 | 91   |
| 5    |    |   | Pyrene, 2-methyl-       | 216 | C17H12  | 003442-78-2 | 91   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF110321\  
Data File : BF126033.D  
Acq On : 3 Nov 2021 22:32  
Operator : JU/CG  
Sample : M4470-04 5X  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SP-2

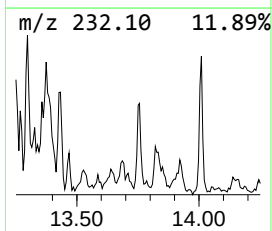
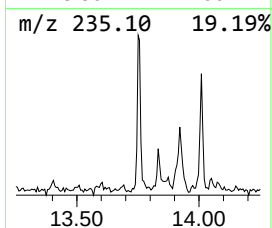
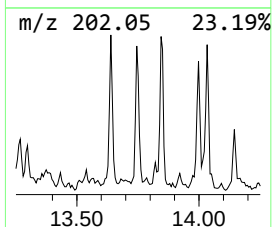
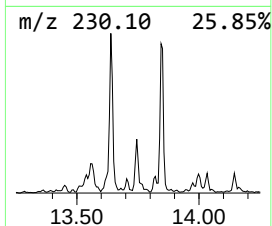
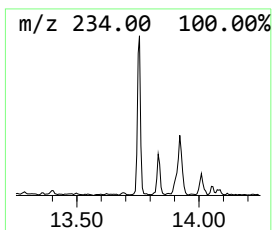
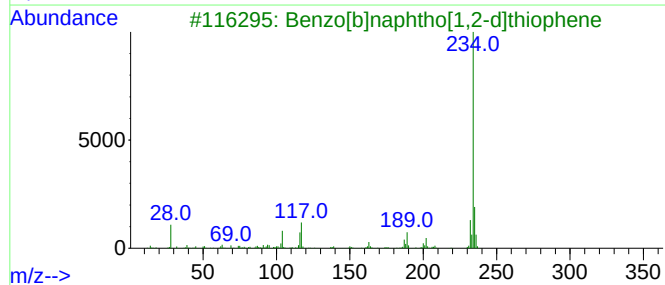
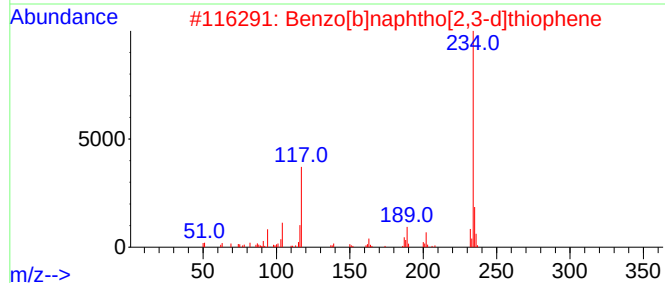
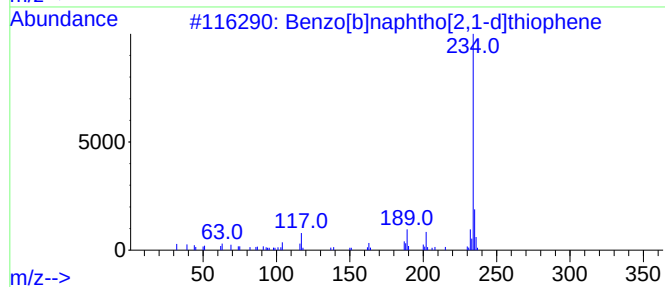
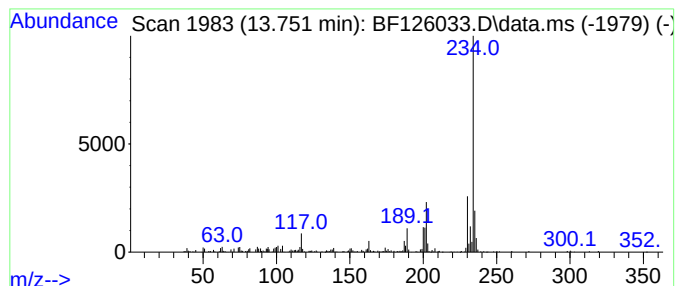
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 17 Benzo[b]naphtho[2,1-d]thiop... Concentration Rank 19

| R.T.      | EstConc                             | Area   | Relative to ISTD | R.T.         |      |
|-----------|-------------------------------------|--------|------------------|--------------|------|
| 13.751    | 2.57 ng                             | 424211 | Chrysene-d12     | 14.009       |      |
| Hit# of 5 | Tentative ID                        | MW     | MolForm          | CAS#         | Qual |
| 1         | Benzo[b]naphtho[2,1-d]thiophene     | 234    | C16H10S          | 000239-35-0  | 94   |
| 2         | Benzo[b]naphtho[2,3-d]thiophene     | 234    | C16H10S          | 000243-46-9  | 70   |
| 3         | Benzo[b]naphtho[1,2-d]thiophene     | 234    | C16H10S          | 000205-43-6  | 52   |
| 4         | Quinoxalino[2,3-b]quinoxaline, 5... | 234    | C14H10N4         | 000531-46-4  | 47   |
| 5         | pyrido[1',2':1,2]imidazo[4,5-b]q... | 234    | C14H10N4         | 1000401-06-3 | 46   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF110321\  
Data File : BF126033.D  
Acq On : 3 Nov 2021 22:32  
Operator : JU/CG  
Sample : M4470-04 5X  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SP-2

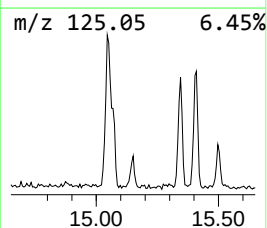
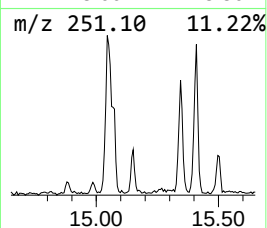
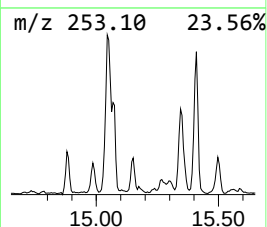
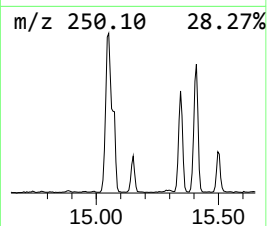
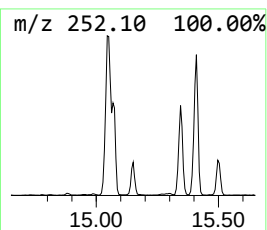
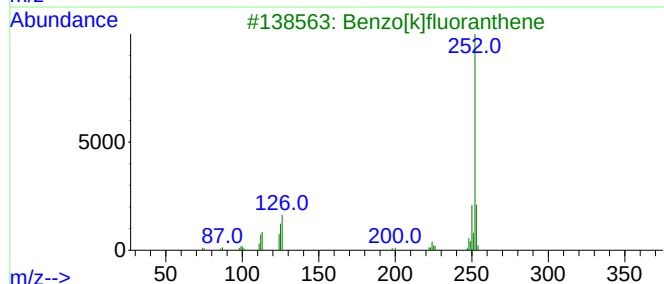
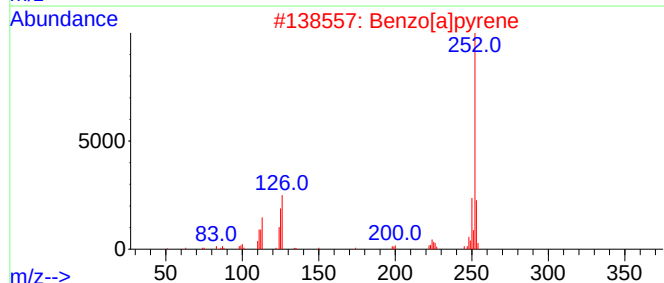
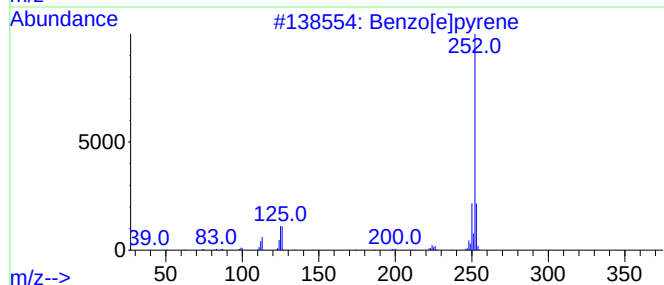
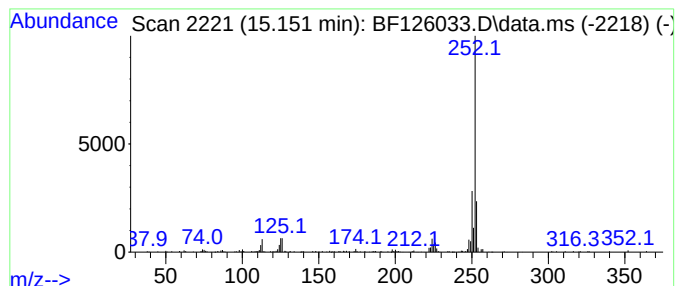
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 18 Benzo[e]pyrene Concentration Rank 6

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 15.151 | 4.74 ng | 230886 | Perylene-d12     | 15.468 |

| Hit# | of | 5 | Tentative ID         | MW  | MolForm | CAS#        | Qual |
|------|----|---|----------------------|-----|---------|-------------|------|
| 1    |    |   | Benzo[e]pyrene       | 252 | C20H12  | 000192-97-2 | 91   |
| 2    |    |   | Benzo[a]pyrene       | 252 | C20H12  | 000050-32-8 | 90   |
| 3    |    |   | Benzo[k]fluoranthene | 252 | C20H12  | 000207-08-9 | 81   |
| 4    |    |   | Benzo[b]fluoranthene | 252 | C20H12  | 000205-99-2 | 81   |
| 5    |    |   | Perylene             | 252 | C20H12  | 000198-55-0 | 74   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF110321\  
Data File : BF126033.D  
Acq On : 3 Nov 2021 22:32  
Operator : JU/CG  
Sample : M4470-04 5X  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SP-2

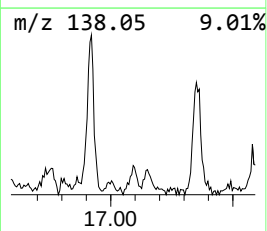
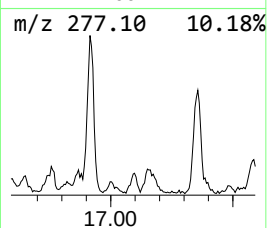
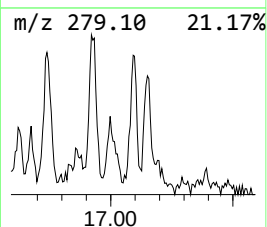
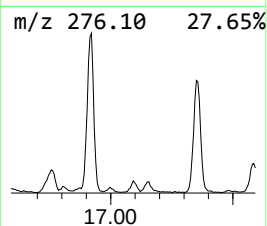
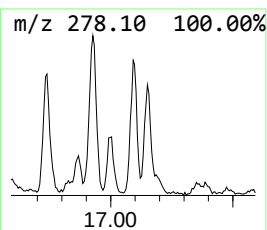
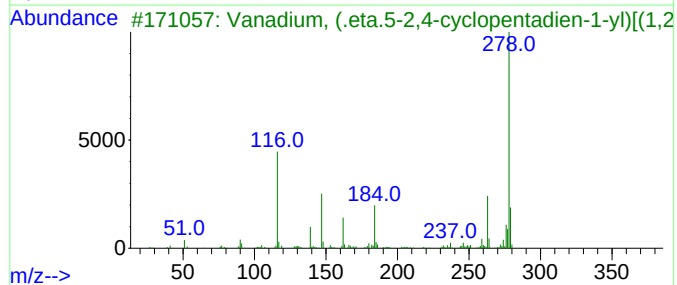
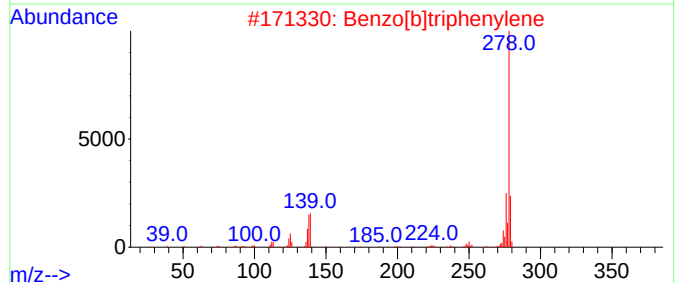
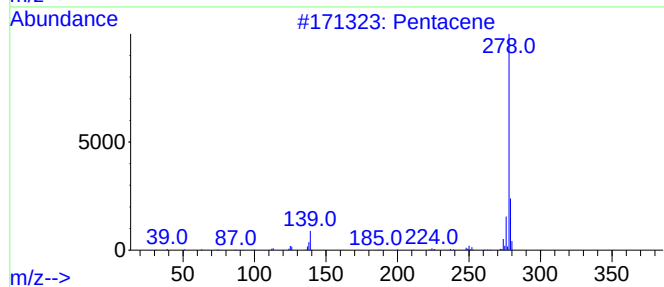
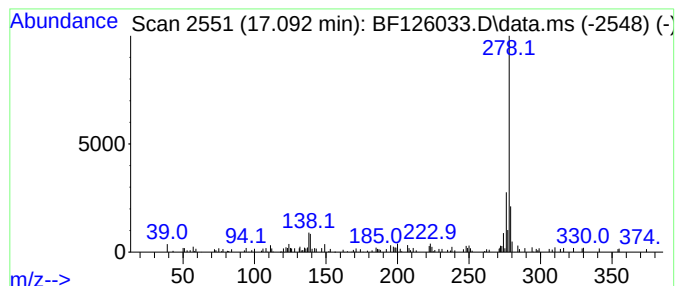
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 20 Pentacene Concentration Rank 18

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 17.092 | 2.74 ng | 133796 | Perylene-d12     | 15.468 |

| Hit# | of 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|------|-------------------------------------|-----|---------|-------------|------|
| 1    |      | Pentacene                           | 278 | C22H14  | 000135-48-8 | 86   |
| 2    |      | Benzo[b]triphenylene                | 278 | C22H14  | 000215-58-7 | 81   |
| 3    |      | Vanadium, (.eta.5-2,4-cyclopenta... | 278 | C17H23V | 126948-97-8 | 72   |
| 4    |      | Picene                              | 278 | C22H14  | 000213-46-7 | 72   |
| 5    |      | Benzo[a]naphthacene                 | 278 | C22H14  | 000226-88-0 | 68   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF110321\  
 Data File : BF126033.D  
 Acq On : 3 Nov 2021 22:32  
 Operator : JU/CG  
 Sample : M4470-04 5X  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SP-2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF110321.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST0.L  
 TIC Integration Parameters: LSCINT.P

| TIC Top Hit name   | RT     | EstConc | Units | Response | --Internal Standard-- |        |         |      |
|--------------------|--------|---------|-------|----------|-----------------------|--------|---------|------|
|                    |        |         |       |          | #                     | RT     | Resp    | Conc |
| Butane, 2-metho... | 2.110  | 7.4     | ng    | 372929   | 1                     | 6.851  | 1014050 | 20.0 |
| Ethanol, 2-(2-b... | 8.033  | 3.4     | ng    | 221670   | 2                     | 8.133  | 1314760 | 20.0 |
| 9H-Fluoren-9-one   | 11.169 | 2.9     | ng    | 203699   | 4                     | 11.368 | 1393370 | 20.0 |
| Anthracene, 1,2... | 11.227 | 3.4     | ng    | 237248   | 4                     | 11.368 | 1393370 | 20.0 |
| Dibenzothiophene   | 11.263 | 4.1     | ng    | 285991   | 4                     | 11.368 | 1393370 | 20.0 |
| Phenanthrene, 4... | 11.868 | 6.3     | ng    | 439325   | 4                     | 11.368 | 1393370 | 20.0 |
| Phenanthrene, 1... | 11.898 | 9.0     | ng    | 629228   | 4                     | 11.368 | 1393370 | 20.0 |
| Anthracene, 1-m... | 11.945 | 3.4     | ng    | 237249   | 4                     | 11.368 | 1393370 | 20.0 |
| 4H-Cyclopenta[d... | 11.980 | 10.0    | ng    | 699466   | 4                     | 11.368 | 1393370 | 20.0 |
| 1H-Indene, 2-ph... | 12.004 | 4.2     | ng    | 292760   | 4                     | 11.368 | 1393370 | 20.0 |
| Naphthalene, 2-... | 12.163 | 4.2     | ng    | 292438   | 4                     | 11.368 | 1393370 | 20.0 |
| 9,10-Anthracene... | 12.186 | 3.3     | ng    | 227497   | 4                     | 11.368 | 1393370 | 20.0 |
| 9,10-Dimethylan... | 12.421 | 3.7     | ng    | 254817   | 4                     | 11.368 | 1393370 | 20.0 |
| Cyclopenta(def)... | 12.504 | 3.6     | ng    | 250239   | 4                     | 11.368 | 1393370 | 20.0 |
| Fluoranthene, 2... | 13.027 | 2.5     | ng    | 407877   | 5                     | 14.009 | 3307040 | 20.0 |
| 11H-Benzo[b]flu... | 13.133 | 2.8     | ng    | 462084   | 5                     | 14.009 | 3307040 | 20.0 |
| Benzo[b]naphtho... | 13.751 | 2.6     | ng    | 424211   | 5                     | 14.009 | 3307040 | 20.0 |
| Benzo[e]pyrene     | 15.151 | 4.7     | ng    | 230886   | 6                     | 15.468 | 975175  | 20.0 |
| Pentacene          | 17.092 | 2.7     | ng    | 133796   | 6                     | 15.468 | 975175  | 20.0 |