

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF122221\  
 Data File : BF126334.D  
 Acq On : 22 Dec 2021 17:49  
 Operator : JU/CG  
 Sample : M5198-02 10X  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-91SB-22-G2

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-BF121521.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF126334.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         | 6.434       | 736           | 739         | 753          | rBV      | 237617         | 267417        | 4.21%           | 0.321%        |
| 2         | 6.816       | 800           | 804         | 813          | rVB      | 1013786        | 816726        | 12.87%          | 0.980%        |
| 3         | 8.098       | 1018          | 1022        | 1024         | rBV      | 1194518        | 992192        | 15.63%          | 1.190%        |
| 4         | 8.122       | 1024          | 1026        | 1036         | rVB      | 259137         | 249921        | 3.94%           | 0.300%        |
| 5         | 8.810       | 1140          | 1143        | 1150         | rBV      | 846993         | 723924        | 11.41%          | 0.868%        |
| 6         | 8.910       | 1155          | 1160        | 1170         | rVB      | 831837         | 740501        | 11.67%          | 0.888%        |
| 7         | 9.175       | 1201          | 1205        | 1208         | rBV      | 377789         | 310610        | 4.89%           | 0.373%        |
| 8         | 9.369       | 1235          | 1238        | 1244         | rVB      | 430006         | 439690        | 6.93%           | 0.527%        |
| 9         | 9.439       | 1245          | 1250        | 1254         | rBV      | 591298         | 799845        | 12.60%          | 0.959%        |
| 10        | 9.510       | 1258          | 1262        | 1265         | rVV      | 962414         | 1013854       | 15.98%          | 1.216%        |
| 11        | 9.539       | 1265          | 1267        | 1270         | rVV      | 711722         | 566962        | 8.93%           | 0.680%        |
| 12        | 9.628       | 1279          | 1282        | 1288         | rVV      | 564682         | 631115        | 9.95%           | 0.757%        |
| 13        | 9.710       | 1294          | 1296        | 1303         | rVB      | 358257         | 325253        | 5.13%           | 0.390%        |
| 14        | 9.851       | 1314          | 1320        | 1323         | rBV2     | 1095588        | 1169593       | 18.43%          | 1.403%        |
| 15        | 9.886       | 1323          | 1326        | 1329         | rVV      | 1385795        | 1186438       | 18.70%          | 1.423%        |
| 16        | 9.957       | 1335          | 1338        | 1343         | rBV      | 342328         | 448278        | 7.06%           | 0.538%        |
| 17        | 10.010      | 1343          | 1347        | 1349         | rBV2     | 277986         | 315344        | 4.97%           | 0.378%        |
| 18        | 10.057      | 1351          | 1355        | 1358         | rVB      | 472901         | 471422        | 7.43%           | 0.565%        |
| 19        | 10.098      | 1358          | 1362        | 1364         | rBV      | 316608         | 304319        | 4.80%           | 0.365%        |
| 20        | 10.169      | 1371          | 1374        | 1377         | rBV      | 295123         | 281329        | 4.43%           | 0.337%        |
| 21        | 10.263      | 1385          | 1390        | 1391         | rBV2     | 273382         | 331224        | 5.22%           | 0.397%        |
| 22        | 10.351      | 1400          | 1405        | 1409         | rVV3     | 197785         | 279818        | 4.41%           | 0.336%        |
| 23        | 10.398      | 1409          | 1413        | 1419         | rVV2     | 847122         | 920360        | 14.50%          | 1.104%        |
| 24        | 10.451      | 1419          | 1422        | 1423         | rVV2     | 308477         | 297933        | 4.69%           | 0.357%        |
| 25        | 10.469      | 1423          | 1425        | 1426         | rVV      | 391479         | 330323        | 5.21%           | 0.396%        |
| 26        | 10.486      | 1426          | 1428        | 1430         | rVV2     | 395146         | 338485        | 5.33%           | 0.406%        |
| 27        | 10.510      | 1430          | 1432        | 1434         | rVV2     | 247290         | 247857        | 3.91%           | 0.297%        |
| 28        | 10.533      | 1434          | 1436        | 1438         | rVV2     | 242254         | 256211        | 4.04%           | 0.307%        |
| 29        | 10.557      | 1438          | 1440        | 1445         | rVV2     | 298137         | 327716        | 5.16%           | 0.393%        |
| 30        | 10.639      | 1449          | 1454        | 1458         | rVV2     | 196660         | 304670        | 4.80%           | 0.365%        |
| 31        | 10.769      | 1473          | 1476        | 1482         | rVB3     | 193651         | 262386        | 4.13%           | 0.315%        |
| 32        | 10.945      | 1501          | 1506        | 1509         | rBV3     | 260860         | 385145        | 6.07%           | 0.462%        |
| 33        | 11.145      | 1536          | 1540        | 1544         | rVV      | 650885         | 722302        | 11.38%          | 0.866%        |
| 34        | 11.186      | 1545          | 1547        | 1552         | rVV5     | 143000         | 264747        | 4.17%           | 0.318%        |
| 35        | 11.233      | 1552          | 1555        | 1561         | rVB      | 930019         | 913949        | 14.40%          | 1.096%        |
| 36        | 11.339      | 1569          | 1573        | 1575         | rBV      | 714512         | 904556        | 14.25%          | 1.085%        |

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 Sample : M5198-02 10X  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-91SB-22-G2

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-BF121521.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |         |        |
|----|--------|------|------|------|------|---------|---------|---------|--------|
| 37 | 11.375 | 1575 | 1579 | 1582 | rVV  | 5414457 | 6346012 | 100.00% | 7.611% |
| 38 | 11.416 | 1583 | 1586 | 1589 | rVV  | 1589084 | 1281323 | 20.19%  | 1.537% |
| 39 | 11.639 | 1621 | 1624 | 1626 | rVB  | 417761  | 362763  | 5.72%   | 0.435% |
| 40 | 11.669 | 1626 | 1629 | 1634 | rVB  | 679063  | 598889  | 9.44%   | 0.718% |
| 41 | 11.751 | 1641 | 1643 | 1647 | rVB  | 279559  | 295682  | 4.66%   | 0.355% |
| 42 | 11.798 | 1647 | 1651 | 1653 | rBV  | 301727  | 297557  | 4.69%   | 0.357% |
| 43 | 11.845 | 1655 | 1659 | 1661 | rVV  | 1847863 | 1784579 | 28.12%  | 2.140% |
| 44 | 11.874 | 1661 | 1664 | 1667 | rVB  | 2044605 | 1826184 | 28.78%  | 2.190% |
| 45 | 11.916 | 1668 | 1671 | 1674 | rBV  | 458732  | 387752  | 6.11%   | 0.465% |
| 46 | 11.951 | 1674 | 1677 | 1680 | rBV  | 1956696 | 2324123 | 36.62%  | 2.788% |
| 47 | 11.980 | 1680 | 1682 | 1685 | rVB  | 1614180 | 1238271 | 19.51%  | 1.485% |
| 48 | 12.139 | 1706 | 1709 | 1711 | rVV  | 1136844 | 1097752 | 17.30%  | 1.317% |
| 49 | 12.163 | 1711 | 1713 | 1719 | rVB2 | 1321139 | 1138796 | 17.95%  | 1.366% |
| 50 | 12.210 | 1719 | 1721 | 1728 | rVB3 | 240755  | 280398  | 4.42%   | 0.336% |
| 51 | 12.286 | 1732 | 1734 | 1737 | rVV2 | 498473  | 464839  | 7.32%   | 0.558% |
| 52 | 12.316 | 1737 | 1739 | 1741 | rVV  | 383646  | 315343  | 4.97%   | 0.378% |
| 53 | 12.392 | 1748 | 1752 | 1755 | rVV  | 849449  | 901442  | 14.20%  | 1.081% |
| 54 | 12.427 | 1755 | 1758 | 1760 | rVV2 | 527865  | 661385  | 10.42%  | 0.793% |
| 55 | 12.474 | 1764 | 1766 | 1772 | rVV  | 1013052 | 1128027 | 17.78%  | 1.353% |
| 56 | 12.557 | 1774 | 1780 | 1784 | rVV  | 3342766 | 3735905 | 58.87%  | 4.481% |
| 57 | 12.598 | 1785 | 1787 | 1789 | rVV  | 228113  | 237055  | 3.74%   | 0.284% |
| 58 | 12.616 | 1789 | 1790 | 1798 | rVB3 | 308595  | 368451  | 5.81%   | 0.442% |
| 59 | 12.686 | 1798 | 1802 | 1809 | rBV2 | 565996  | 852578  | 13.43%  | 1.023% |
| 60 | 12.792 | 1814 | 1820 | 1823 | rBV  | 4185561 | 5517252 | 86.94%  | 6.617% |
| 61 | 12.827 | 1823 | 1826 | 1832 | rVB2 | 201429  | 335064  | 5.28%   | 0.402% |
| 62 | 12.921 | 1840 | 1842 | 1849 | rVB3 | 392939  | 605665  | 9.54%   | 0.726% |
| 63 | 12.998 | 1849 | 1855 | 1859 | rBV2 | 694913  | 1035469 | 16.32%  | 1.242% |
| 64 | 13.086 | 1867 | 1870 | 1872 | rBV3 | 524149  | 732880  | 11.55%  | 0.879% |
| 65 | 13.104 | 1872 | 1873 | 1877 | rVB  | 677546  | 497228  | 7.84%   | 0.596% |
| 66 | 13.174 | 1877 | 1885 | 1888 | rBV6 | 330888  | 581411  | 9.16%   | 0.697% |
| 67 | 13.216 | 1888 | 1892 | 1894 | rVV  | 946803  | 922778  | 14.54%  | 1.107% |
| 68 | 13.304 | 1904 | 1907 | 1910 | rVV  | 722919  | 641728  | 10.11%  | 0.770% |
| 69 | 13.339 | 1910 | 1913 | 1916 | rVB  | 834196  | 740698  | 11.67%  | 0.888% |
| 70 | 13.510 | 1939 | 1942 | 1945 | rVV4 | 169693  | 264650  | 4.17%   | 0.317% |
| 71 | 13.616 | 1956 | 1960 | 1965 | rVB  | 991939  | 1024293 | 16.14%  | 1.229% |
| 72 | 13.721 | 1974 | 1978 | 1981 | rBV2 | 789672  | 954063  | 15.03%  | 1.144% |
| 73 | 13.757 | 1981 | 1984 | 1986 | rVV  | 736677  | 599038  | 9.44%   | 0.718% |
| 74 | 13.780 | 1986 | 1988 | 1991 | rVV  | 334848  | 273540  | 4.31%   | 0.328% |
| 75 | 13.821 | 1991 | 1995 | 1999 | rVB2 | 762217  | 815195  | 12.85%  | 0.978% |
| 76 | 13.974 | 2016 | 2021 | 2024 | rBV2 | 2421358 | 3341107 | 52.65%  | 4.007% |

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 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-91SB-22-G2

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-BF121521.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|     |        |      |      |      |      |         |         |        |        |
|-----|--------|------|------|------|------|---------|---------|--------|--------|
| 77  | 14.010 | 2024 | 2027 | 2031 | rVV  | 2426746 | 2511402 | 39.57% | 3.012% |
| 78  | 14.068 | 2034 | 2037 | 2041 | rVV3 | 219069  | 377822  | 5.95%  | 0.453% |
| 79  | 14.121 | 2041 | 2046 | 2047 | rVV2 | 188485  | 313187  | 4.94%  | 0.376% |
| 80  | 14.139 | 2047 | 2049 | 2057 | rVB7 | 236567  | 445089  | 7.01%  | 0.534% |
| 81  | 14.327 | 2078 | 2081 | 2083 | rBV  | 276829  | 251985  | 3.97%  | 0.302% |
| 82  | 14.363 | 2083 | 2087 | 2090 | rVV  | 811492  | 848966  | 13.38% | 1.018% |
| 83  | 14.398 | 2090 | 2093 | 2097 | rVB  | 634257  | 531996  | 8.38%  | 0.638% |
| 84  | 14.451 | 2097 | 2102 | 2106 | rVB3 | 343136  | 543122  | 8.56%  | 0.651% |
| 85  | 14.492 | 2106 | 2109 | 2111 | rBV  | 426783  | 430199  | 6.78%  | 0.516% |
| 86  | 14.516 | 2111 | 2113 | 2116 | rVB2 | 298636  | 241804  | 3.81%  | 0.290% |
| 87  | 14.563 | 2118 | 2121 | 2124 | rVB2 | 260414  | 284376  | 4.48%  | 0.341% |
| 88  | 14.833 | 2163 | 2167 | 2170 | rBV2 | 245209  | 330902  | 5.21%  | 0.397% |
| 89  | 14.915 | 2178 | 2181 | 2191 | rVB3 | 207824  | 333589  | 5.26%  | 0.400% |
| 90  | 15.015 | 2192 | 2198 | 2201 | rBV2 | 1385152 | 2482969 | 39.13% | 2.978% |
| 91  | 15.115 | 2212 | 2215 | 2218 | rVB  | 269263  | 258681  | 4.08%  | 0.310% |
| 92  | 15.310 | 2243 | 2248 | 2253 | rVB  | 969810  | 1210530 | 19.08% | 1.452% |
| 93  | 15.374 | 2253 | 2259 | 2264 | rVB  | 1313365 | 1771190 | 27.91% | 2.124% |
| 94  | 15.433 | 2264 | 2269 | 2271 | rBV  | 707767  | 956840  | 15.08% | 1.148% |
| 95  | 15.463 | 2271 | 2274 | 2280 | rVB4 | 346386  | 573308  | 9.03%  | 0.688% |
| 96  | 16.533 | 2452 | 2456 | 2461 | rVB2 | 140888  | 233580  | 3.68%  | 0.280% |
| 97  | 16.868 | 2506 | 2513 | 2520 | rVB2 | 512484  | 1003491 | 15.81% | 1.204% |
| 98  | 17.039 | 2537 | 2542 | 2546 | rBV  | 192131  | 310220  | 4.89%  | 0.372% |
| 99  | 17.298 | 2579 | 2586 | 2595 | rVB  | 420943  | 878574  | 13.84% | 1.054% |
| 100 | 18.451 | 2771 | 2782 | 2793 | rBV  | 78765   | 300848  | 4.74%  | 0.361% |

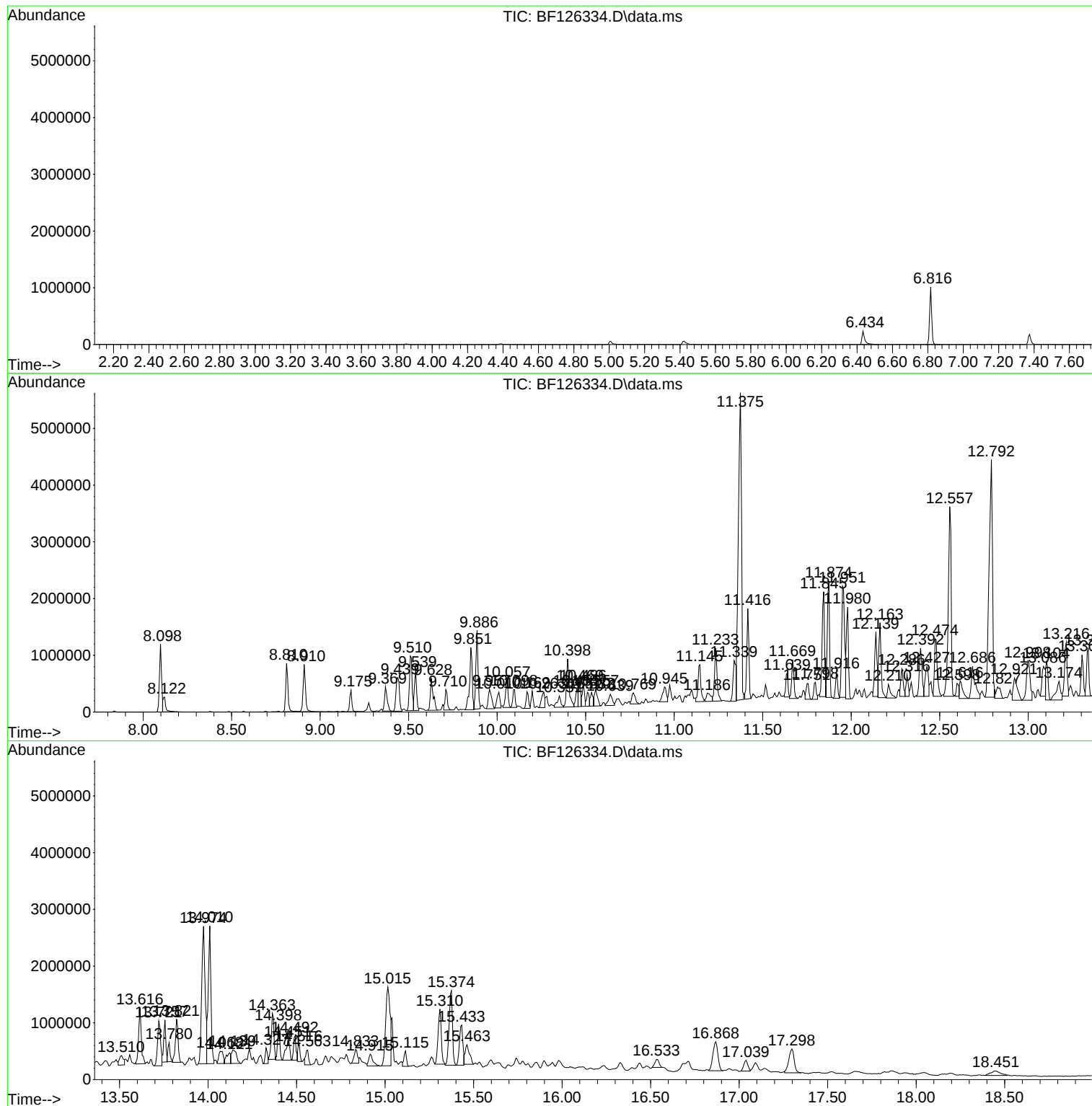
Sum of corrected areas: 83374250

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF122221\  
Data File : BF126334.D  
Acq On : 22 Dec 2021 17:49  
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Sample : M5198-02 10X  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-91SB-22-G2

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF121521.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\BF122221\  
Data File : BF126334.D  
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Operator : JU/CG  
Sample : M5198-02 10X  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-91SB-22-G2

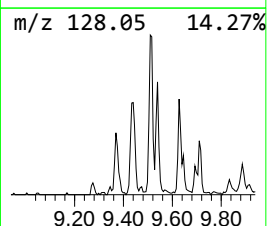
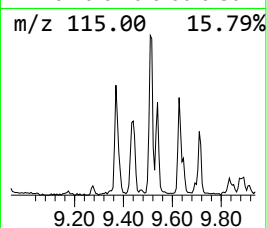
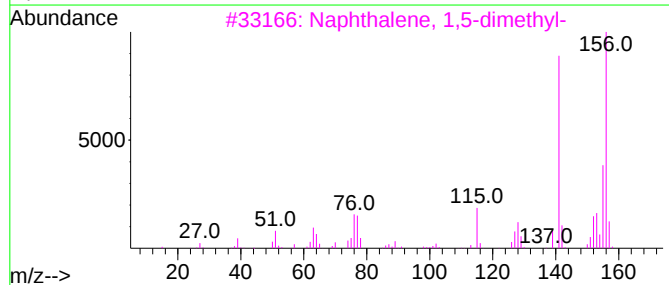
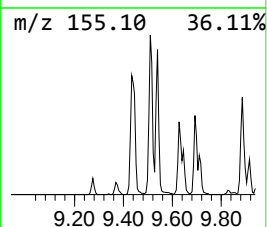
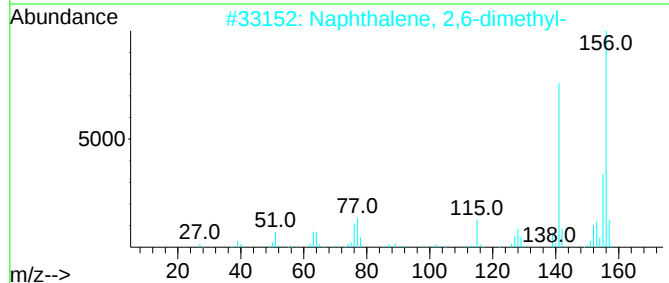
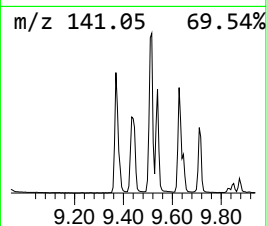
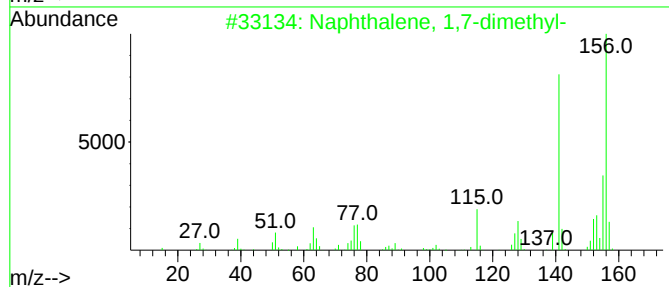
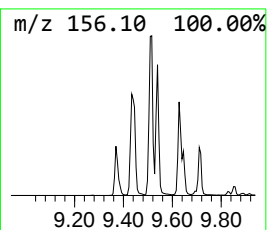
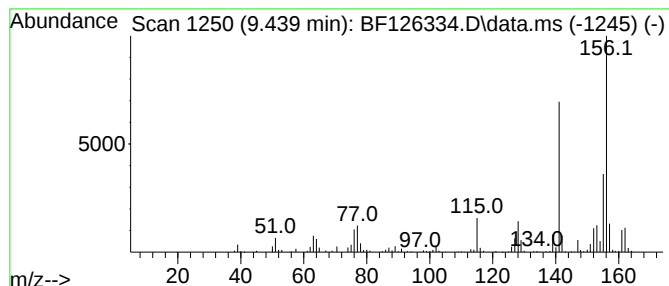
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF121521.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 1 Naphthalene, 1,7-dimethyl- Concentration Rank 14

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 9.439 | 13.68 ng | 799845 | Acenaphthene-d10 | 9.851 |

| Hit# | of | 5 | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|---|----------------------------|-----|---------|-------------|------|
| 1    |    |   | Naphthalene, 1,7-dimethyl- | 156 | C12H12  | 000575-37-1 | 98   |
| 2    |    |   | Naphthalene, 2,6-dimethyl- | 156 | C12H12  | 000581-42-0 | 98   |
| 3    |    |   | Naphthalene, 1,5-dimethyl- | 156 | C12H12  | 000571-61-9 | 98   |
| 4    |    |   | Naphthalene, 1,6-dimethyl- | 156 | C12H12  | 000575-43-9 | 97   |
| 5    |    |   | Naphthalene, 1,3-dimethyl- | 156 | C12H12  | 000575-41-7 | 96   |



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ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-91SB-22-G2

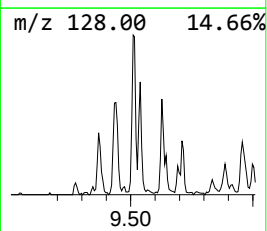
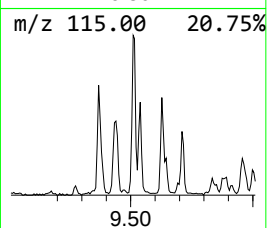
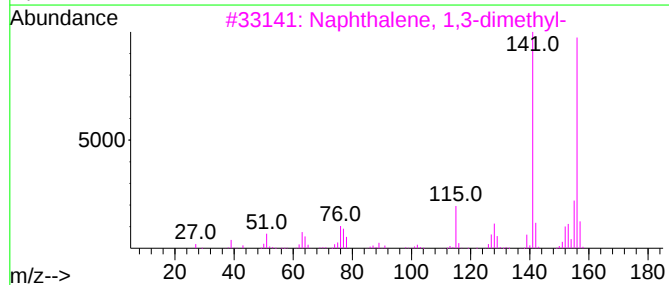
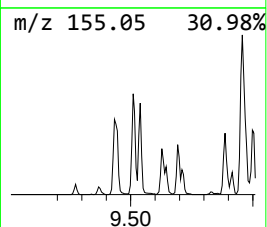
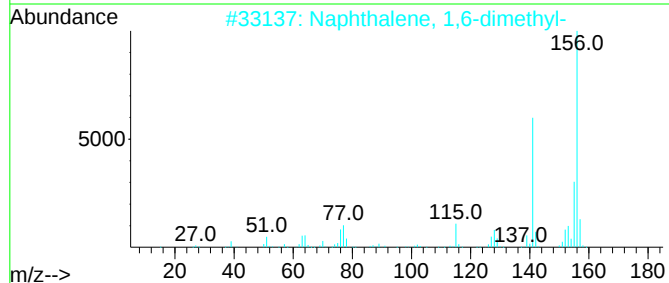
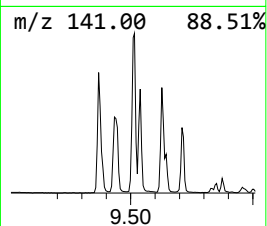
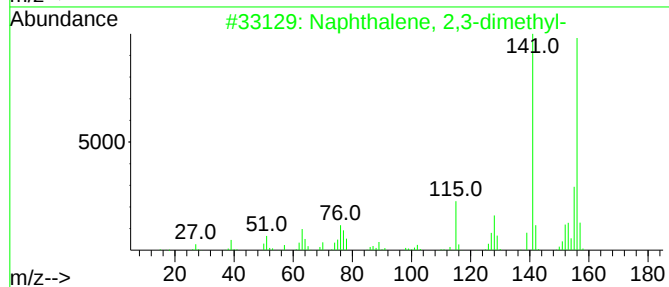
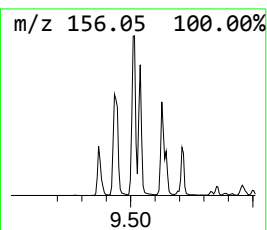
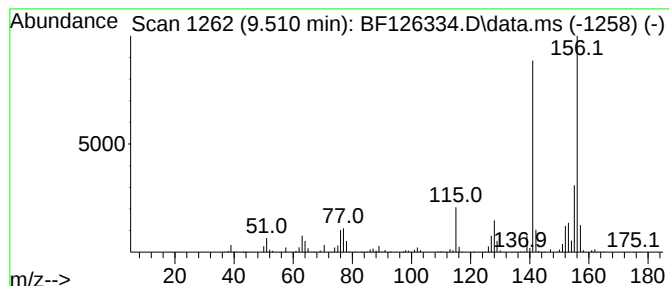
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF121521.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 2 Naphthalene, 2,3-dimethyl- Concentration Rank 11

| R.T.  | EstConc  | Area    | Relative to ISTD | R.T.  |
|-------|----------|---------|------------------|-------|
| 9.510 | 17.34 ng | 1013850 | Acenaphthene-d10 | 9.851 |

| Hit# | of | 5 | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|---|----------------------------|-----|---------|-------------|------|
| 1    |    |   | Naphthalene, 2,3-dimethyl- | 156 | C12H12  | 000581-40-8 | 98   |
| 2    |    |   | Naphthalene, 1,6-dimethyl- | 156 | C12H12  | 000575-43-9 | 97   |
| 3    |    |   | Naphthalene, 1,3-dimethyl- | 156 | C12H12  | 000575-41-7 | 97   |
| 4    |    |   | Naphthalene, 1,4-dimethyl- | 156 | C12H12  | 000571-58-4 | 96   |
| 5    |    |   | Naphthalene, 1,2-dimethyl- | 156 | C12H12  | 000573-98-8 | 96   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF122221\  
Data File : BF126334.D  
Acq On : 22 Dec 2021 17:49  
Operator : JU/CG  
Sample : M5198-02 10X  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-91SB-22-G2

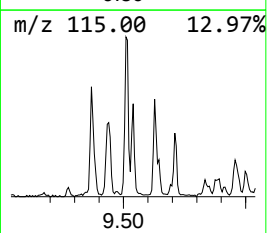
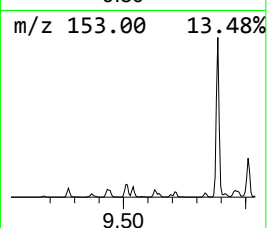
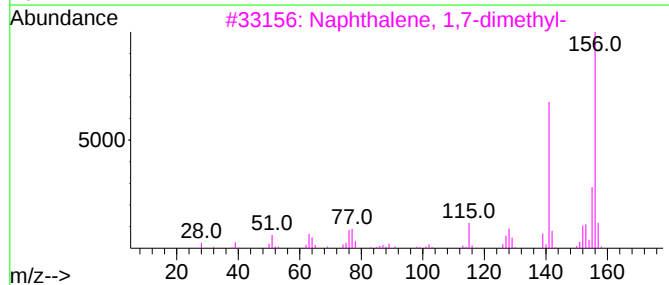
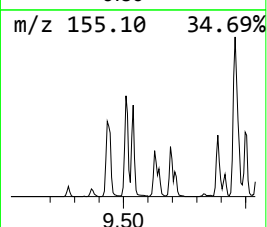
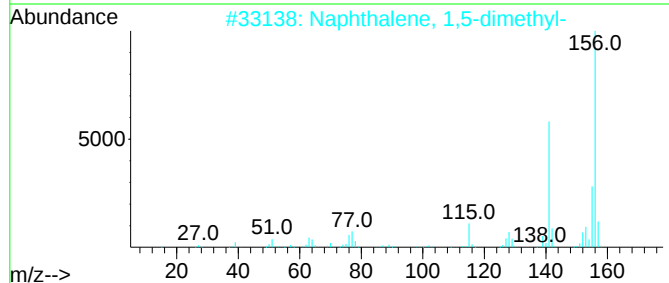
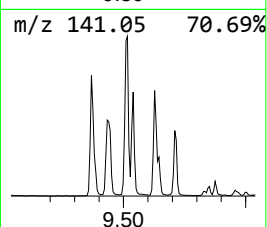
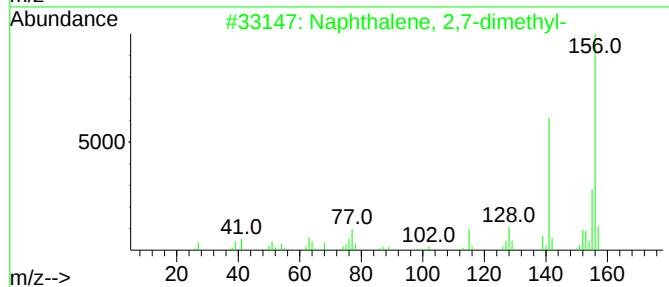
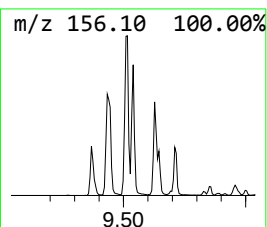
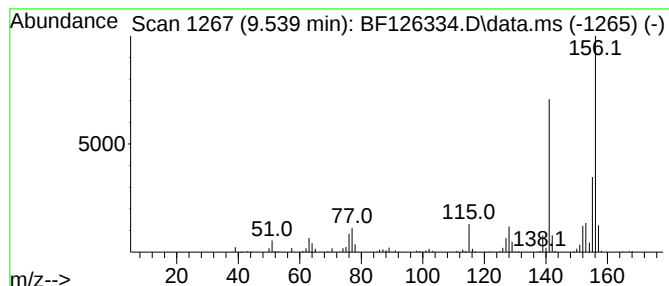
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 3 Naphthalene, 2,7-dimethyl- Concentration Rank 18

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 9.539 | 9.70 ng | 566962 | Acenaphthene-d10 | 9.851 |

| Hit# | of | 5 | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|---|----------------------------|-----|---------|-------------|------|
| 1    |    |   | Naphthalene, 2,7-dimethyl- | 156 | C12H12  | 000582-16-1 | 97   |
| 2    |    |   | Naphthalene, 1,5-dimethyl- | 156 | C12H12  | 000571-61-9 | 97   |
| 3    |    |   | Naphthalene, 1,7-dimethyl- | 156 | C12H12  | 000575-37-1 | 97   |
| 4    |    |   | Naphthalene, 2,3-dimethyl- | 156 | C12H12  | 000581-40-8 | 97   |
| 5    |    |   | Naphthalene, 1,6-dimethyl- | 156 | C12H12  | 000575-43-9 | 96   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF122221\  
Data File : BF126334.D  
Acq On : 22 Dec 2021 17:49  
Operator : JU/CG  
Sample : M5198-02 10X  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-91SB-22-G2

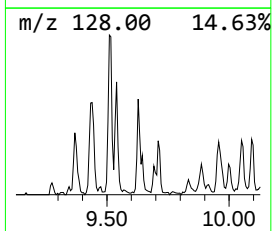
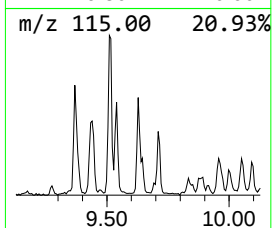
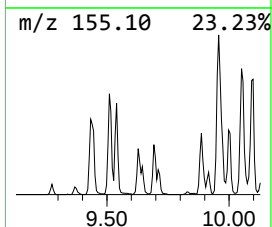
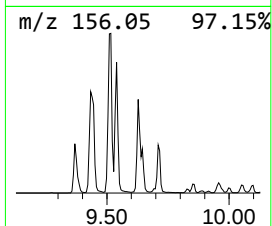
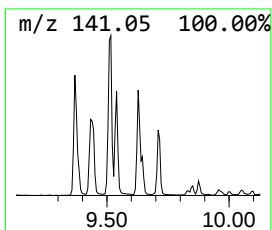
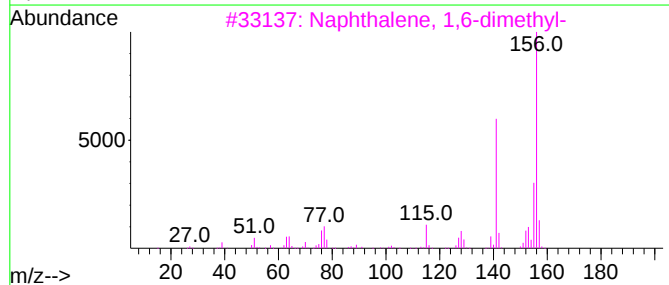
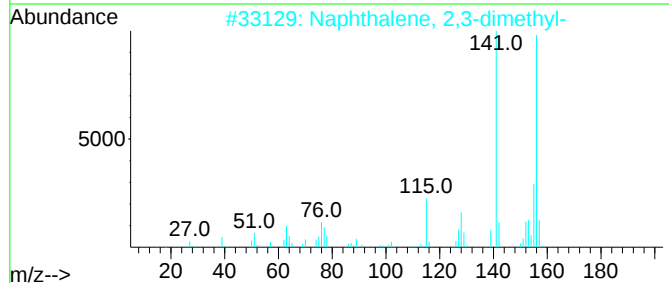
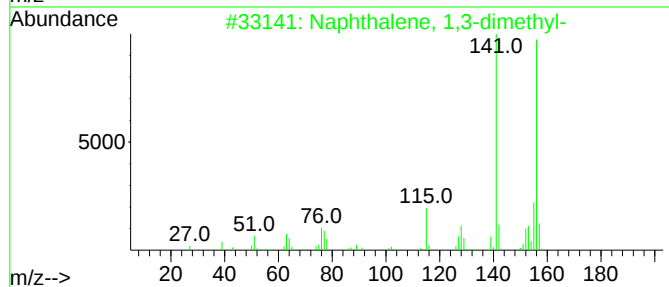
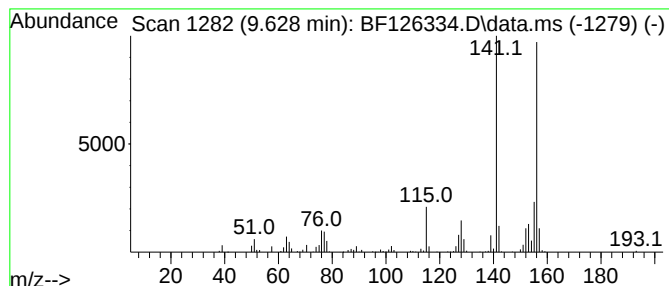
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 4 Naphthalene, 1,3-dimethyl- Concentration Rank 16

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 9.628 | 10.79 ng | 631115 | Acenaphthene-d10 | 9.851 |

| Hit# | of | 5 | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|---|----------------------------|-----|---------|-------------|------|
| 1    |    |   | Naphthalene, 1,3-dimethyl- | 156 | C12H12  | 000575-41-7 | 98   |
| 2    |    |   | Naphthalene, 2,3-dimethyl- | 156 | C12H12  | 000581-40-8 | 98   |
| 3    |    |   | Naphthalene, 1,6-dimethyl- | 156 | C12H12  | 000575-43-9 | 97   |
| 4    |    |   | Naphthalene, 1,7-dimethyl- | 156 | C12H12  | 000575-37-1 | 97   |
| 5    |    |   | Naphthalene, 1,5-dimethyl- | 156 | C12H12  | 000571-61-9 | 97   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF122221\  
Data File : BF126334.D  
Acq On : 22 Dec 2021 17:49  
Operator : JU/CG  
Sample : M5198-02 10X  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-91SB-22-G2

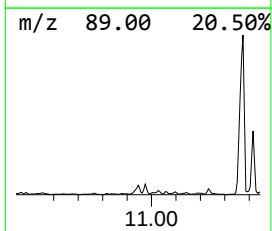
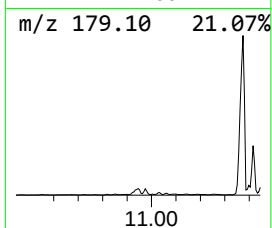
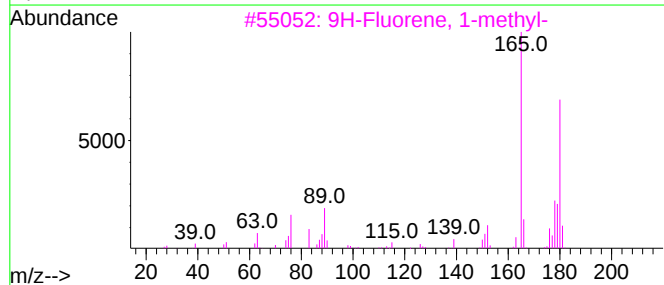
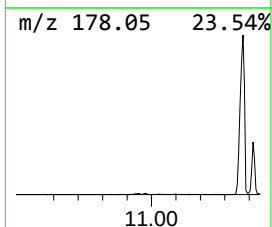
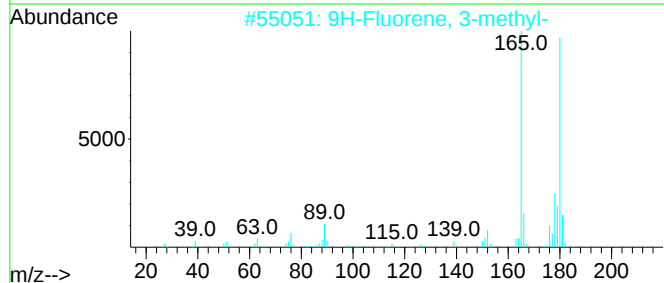
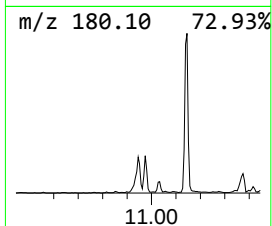
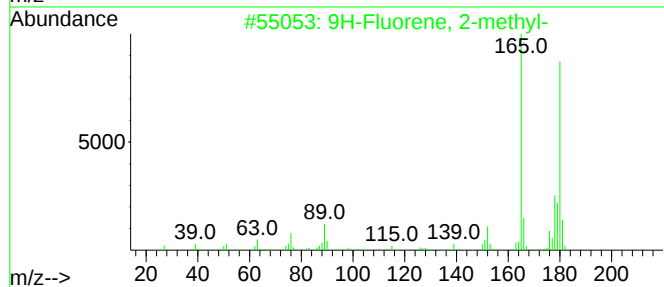
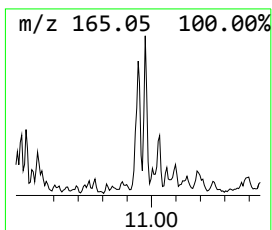
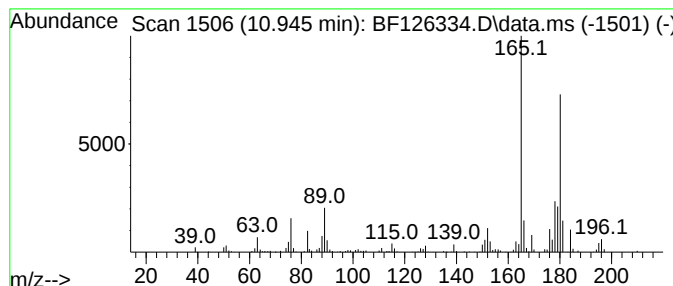
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 5 9H-Fluorene, 2-methyl- Concentration Rank 20

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 10.945 | 8.52 ng | 385145 | Phenanthrene-d10 | 11.339 |

| Hit# | of                     | 5 | Tentative ID | MW  | MolForm | CAS#        | Qual |
|------|------------------------|---|--------------|-----|---------|-------------|------|
| 1    | 9H-Fluorene, 2-methyl- |   |              | 180 | C14H12  | 001430-97-3 | 95   |
| 2    | 9H-Fluorene, 3-methyl- |   |              | 180 | C14H12  | 002523-39-9 | 95   |
| 3    | 9H-Fluorene, 1-methyl- |   |              | 180 | C14H12  | 001730-37-6 | 93   |
| 4    | 9H-Fluorene, 9-methyl- |   |              | 180 | C14H12  | 002523-37-7 | 89   |
| 5    | 9H-Fluorene, 4-methyl- |   |              | 180 | C14H12  | 001556-99-6 | 81   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF122221\  
Data File : BF126334.D  
Acq On : 22 Dec 2021 17:49  
Operator : JU/CG  
Sample : M5198-02 10X  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-91SB-22-G2

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF121521.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

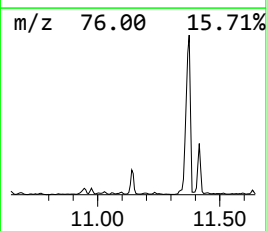
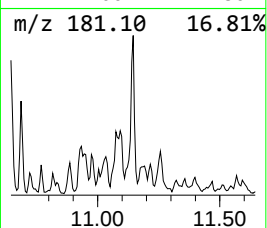
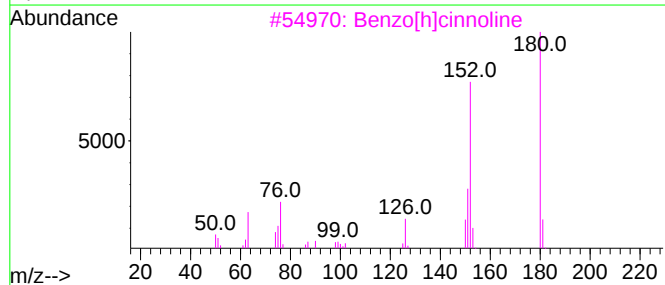
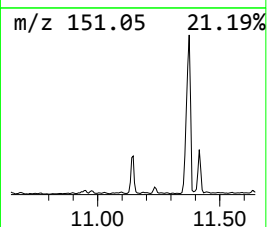
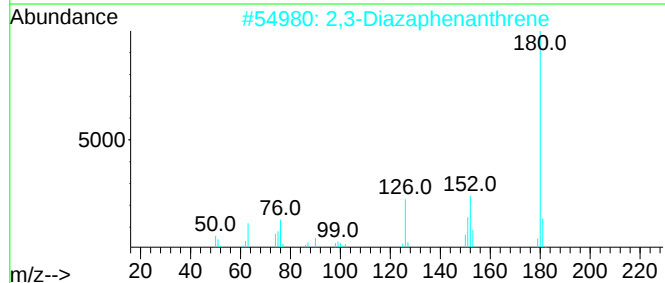
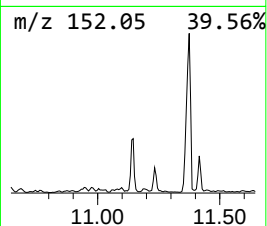
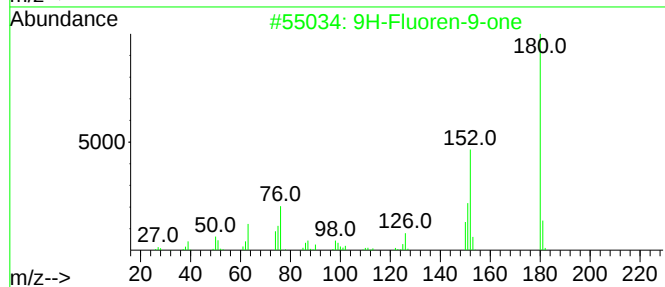
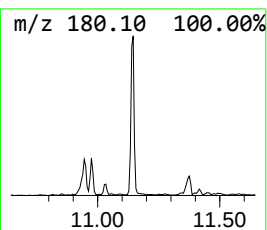
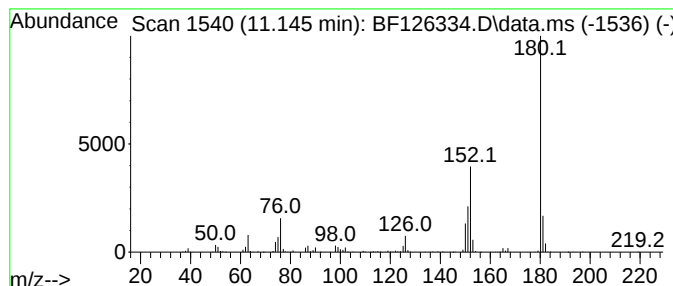
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 6 9H-Fluoren-9-one Concentration Rank 12

| R.T.   | EstConc  | Area   | Relative to ISTD | R.T.   |
|--------|----------|--------|------------------|--------|
| 11.145 | 15.97 ng | 722302 | Phenanthrene-d10 | 11.339 |

| Hit# | of | 5 | Tentative ID             | MW  | MolForm | CAS#        | Qual |
|------|----|---|--------------------------|-----|---------|-------------|------|
| 1    |    |   | 9H-Fluoren-9-one         | 180 | C13H8O  | 000486-25-9 | 97   |
| 2    |    |   | 2,3-Diazaphenanthrene    | 180 | C12H8N2 | 000229-72-1 | 64   |
| 3    |    |   | Benzo[h]cinnoline        | 180 | C12H8N2 | 000230-31-9 | 59   |
| 4    |    |   | 1H-Phenalen-1-one        | 180 | C13H8O  | 000548-39-0 | 53   |
| 5    |    |   | Anthracene, 1,2-dihydro- | 180 | C14H12  | 058746-82-0 | 47   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF122221\  
Data File : BF126334.D  
Acq On : 22 Dec 2021 17:49  
Operator : JU/CG  
Sample : M5198-02 10X  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-91SB-22-G2

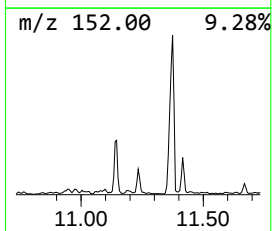
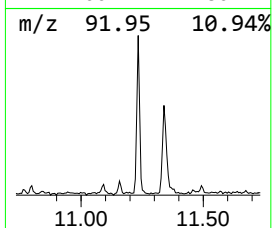
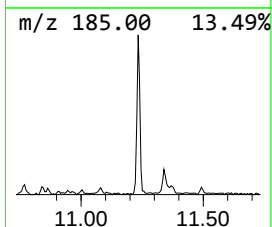
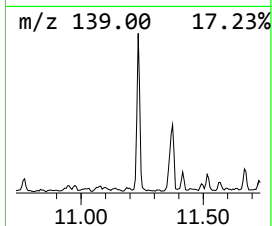
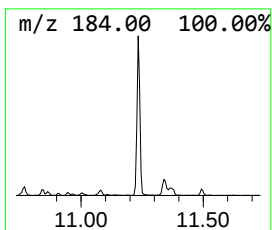
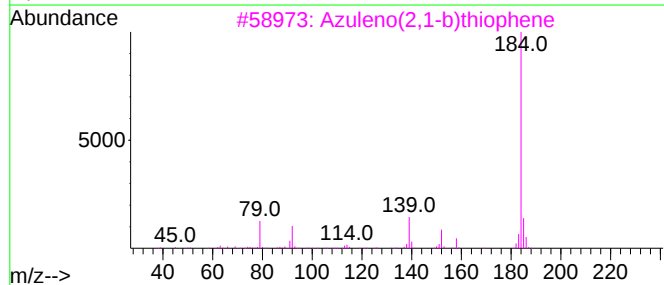
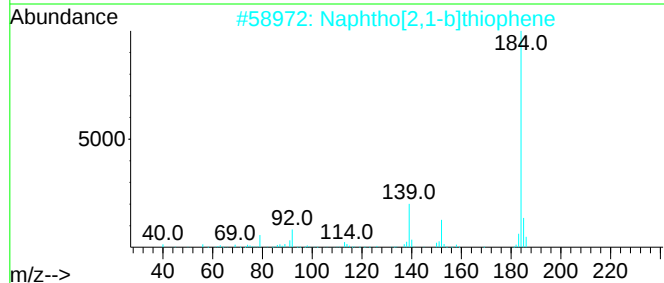
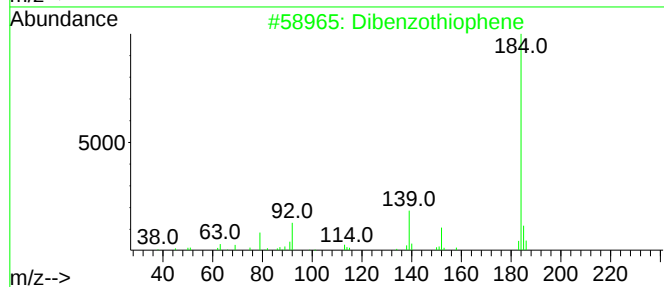
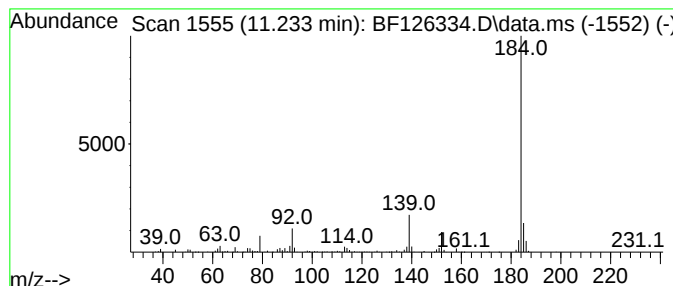
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 7 Dibenzothiophene Concentration Rank 9

| R.T.   | EstConc  | Area   | Relative to ISTD | R.T.   |
|--------|----------|--------|------------------|--------|
| 11.233 | 20.21 ng | 913949 | Phenanthrene-d10 | 11.339 |

| Hit# | of | 5 | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------|-----|---------|-------------|------|
| 1    |    |   | Dibenzothiophene        | 184 | C12H8S  | 000132-65-0 | 97   |
| 2    |    |   | Naphtho[2,1-b]thiophene | 184 | C12H8S  | 000233-02-3 | 95   |
| 3    |    |   | Azuleno(2,1-b)thiophene | 184 | C12H8S  | 000248-13-5 | 91   |
| 4    |    |   | Naphtho[2,3-b]thiophene | 184 | C12H8S  | 000268-77-9 | 91   |
| 5    |    |   | Naphtho[1,2-b]thiophene | 184 | C12H8S  | 000234-41-3 | 90   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF122221\  
Data File : BF126334.D  
Acq On : 22 Dec 2021 17:49  
Operator : JU/CG  
Sample : M5198-02 10X  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-91SB-22-G2

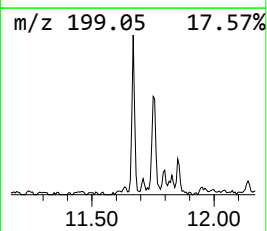
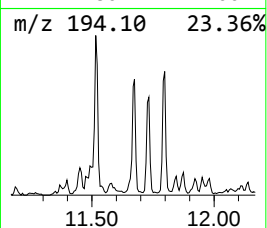
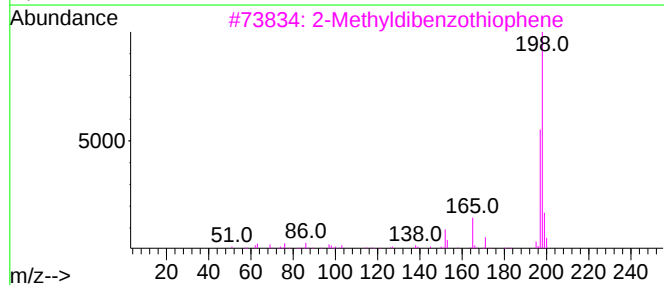
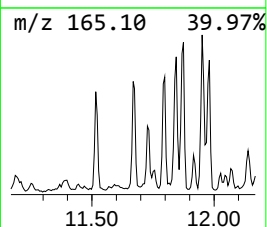
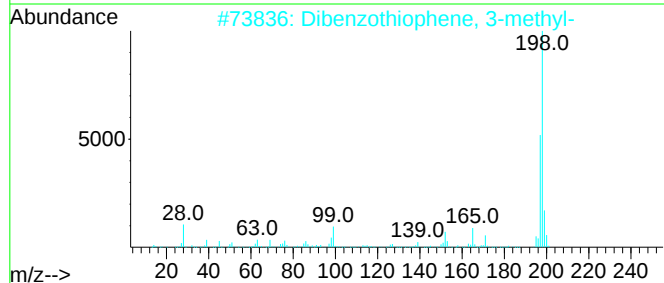
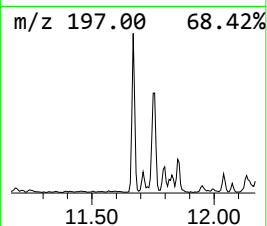
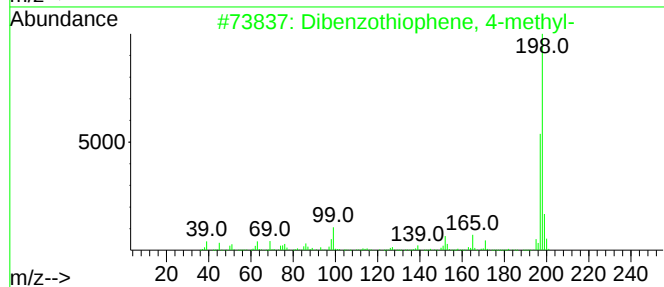
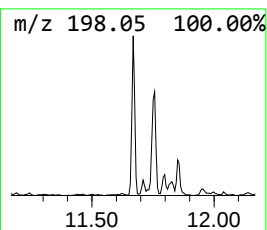
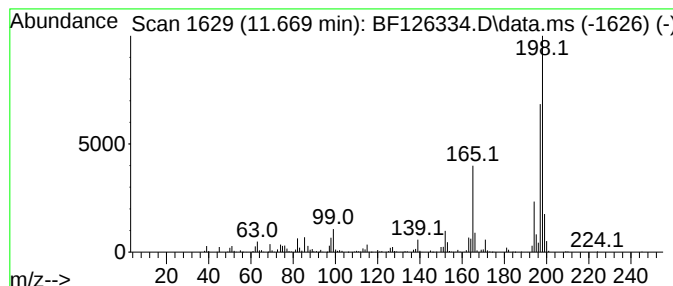
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 8 Dibenzothiophene, 4-methyl- Concentration Rank 15

| R.T.   | EstConc  | Area   | Relative to ISTD | R.T.   |
|--------|----------|--------|------------------|--------|
| 11.669 | 13.24 ng | 598889 | Phenanthrene-d10 | 11.339 |

| Hit# | of | 5 | Tentative ID                    | MW  | MolForm  | CAS#         | Qual |
|------|----|---|---------------------------------|-----|----------|--------------|------|
| 1    |    |   | Dibenzothiophene, 4-methyl-     | 198 | C13H10S  | 007372-88-5  | 94   |
| 2    |    |   | Dibenzothiophene, 3-methyl-     | 198 | C13H10S  | 016587-52-3  | 94   |
| 3    |    |   | 2-Methyldibenzothiophene        | 198 | C13H10S  | 1000383-55-1 | 81   |
| 4    |    |   | 4-Methylnaphtho[1,2-b]thiophene | 198 | C13H10S  | 067388-11-8  | 70   |
| 5    |    |   | Benzenamine, 4,4'-methylenebis- | 198 | C13H14N2 | 000101-77-9  | 70   |



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Data File : BF126334.D  
Acq On : 22 Dec 2021 17:49  
Operator : JU/CG  
Sample : M5198-02 10X  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-91SB-22-G2

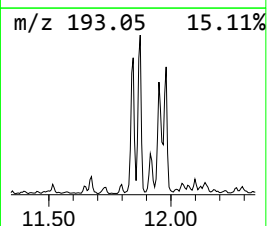
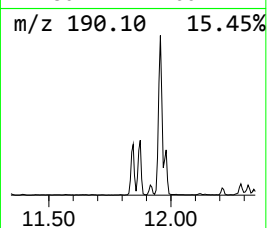
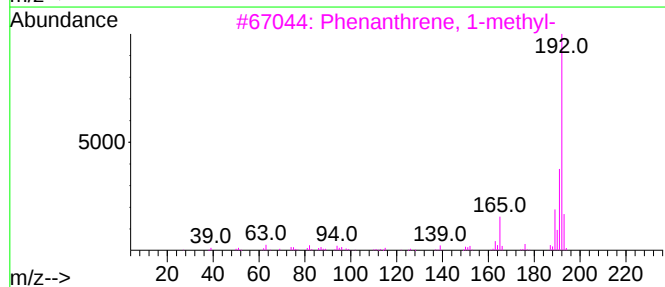
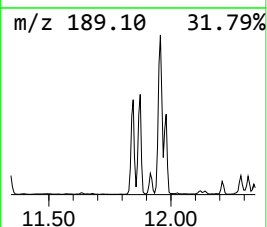
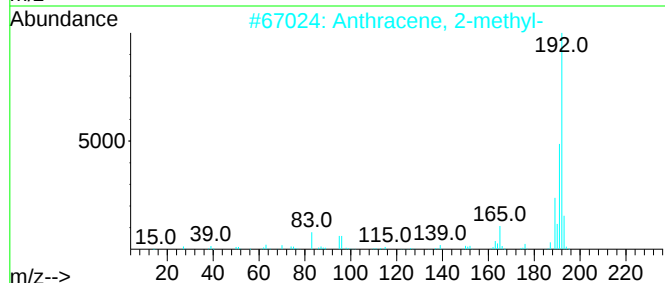
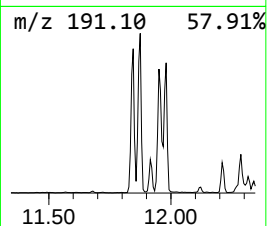
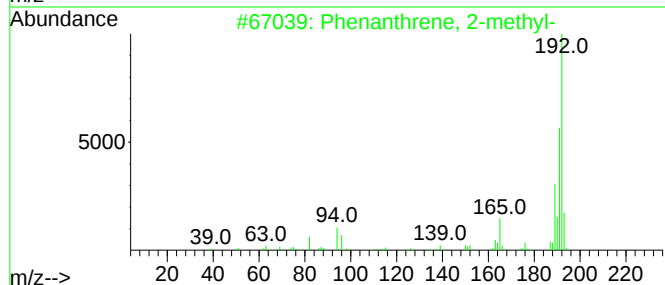
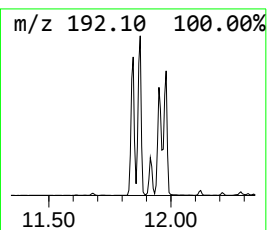
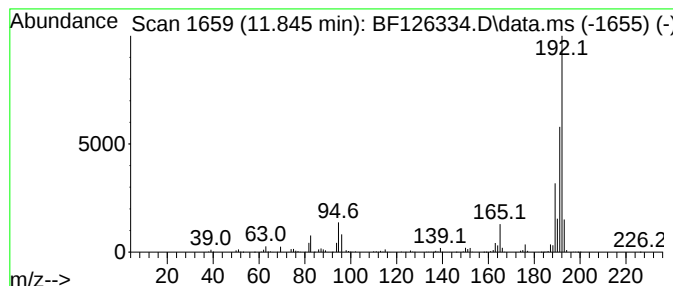
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 9 Phenanthrene, 4-methyl- Concentration Rank 3

| R.T.   | EstConc  | Area    | Relative to ISTD | R.T.   |
|--------|----------|---------|------------------|--------|
| 11.845 | 39.46 ng | 1784580 | Phenanthrene-d10 | 11.339 |

| 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 | 95   |
| 3    |    |   | Phenanthrene, 1-methyl- | 192 | C15H12  | 000832-69-9 | 95   |
| 4    |    |   | Phenanthrene, 4-methyl- | 192 | C15H12  | 000832-64-4 | 93   |
| 5    |    |   | Anthracene, 9-methyl-   | 192 | C15H12  | 000779-02-2 | 93   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF122221\  
Data File : BF126334.D  
Acq On : 22 Dec 2021 17:49  
Operator : JU/CG  
Sample : M5198-02 10X  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-91SB-22-G2

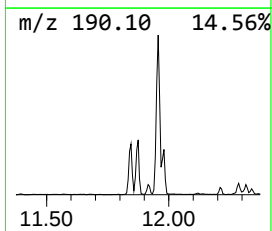
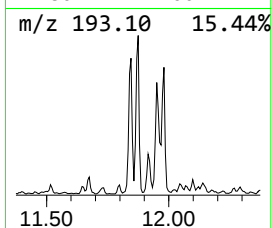
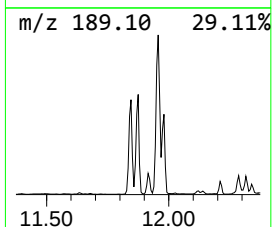
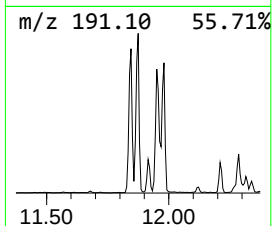
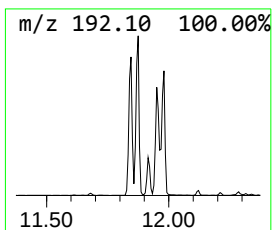
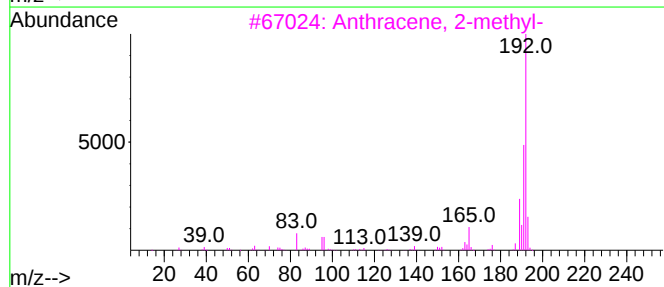
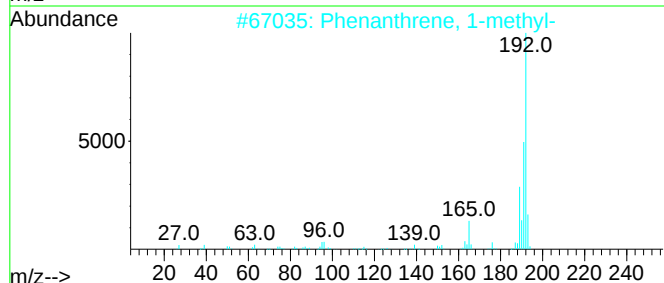
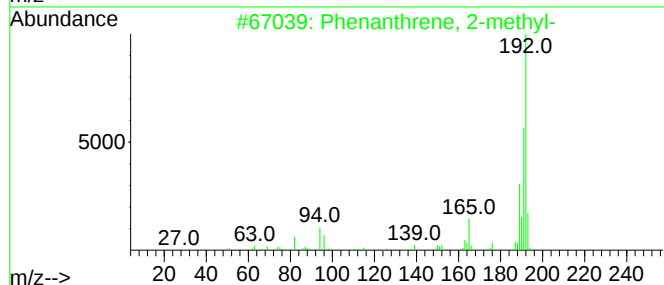
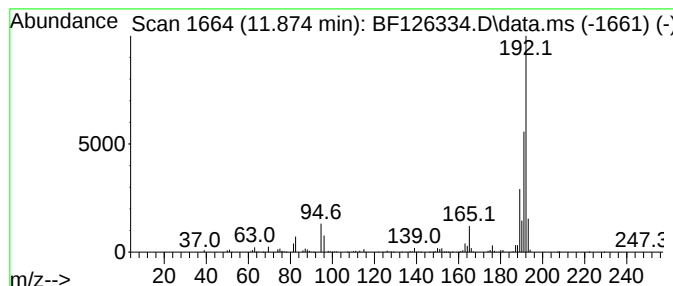
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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

| R.T.   | EstConc  | Area    | Relative to ISTD | R.T.   |
|--------|----------|---------|------------------|--------|
| 11.874 | 40.38 ng | 1826180 | Phenanthrene-d10 | 11.339 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Phenanthrene, 2-methyl-             | 192 | C15H12  | 002531-84-2 | 98   |
| 2    |    |   | Phenanthrene, 1-methyl-             | 192 | C15H12  | 000832-69-9 | 96   |
| 3    |    |   | Anthracene, 2-methyl-               | 192 | C15H12  | 000613-12-7 | 96   |
| 4    |    |   | 1H-Cyclopropa[1]phenanthrene,1a,... | 192 | C15H12  | 000949-41-7 | 95   |
| 5    |    |   | 1H-Indene, 2-phenyl-                | 192 | C15H12  | 004505-48-0 | 94   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF122221\  
Data File : BF126334.D  
Acq On : 22 Dec 2021 17:49  
Operator : JU/CG  
Sample : M5198-02 10X  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-91SB-22-G2

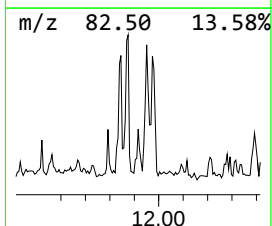
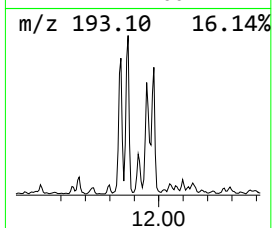
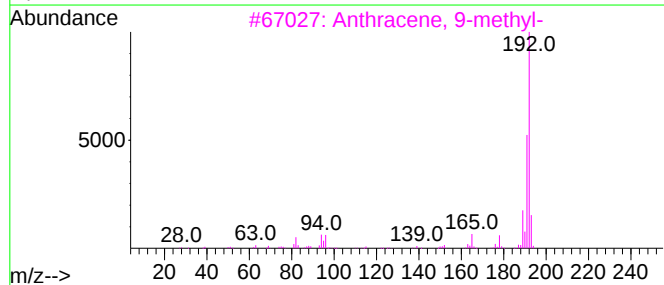
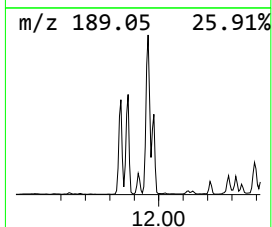
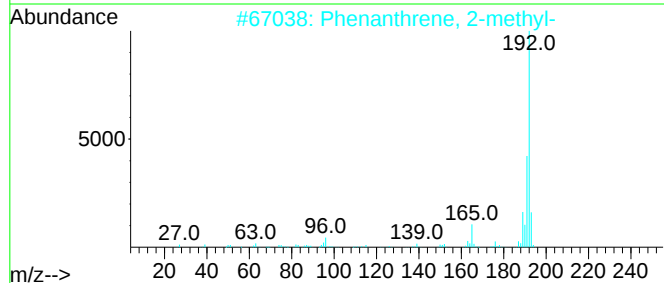
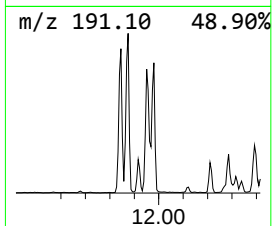
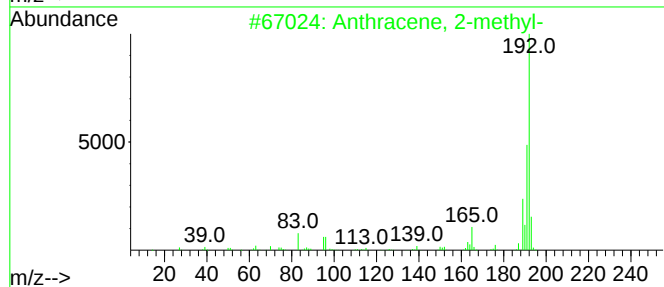
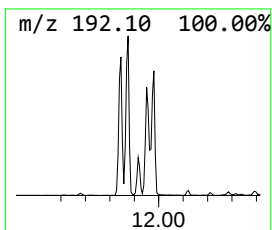
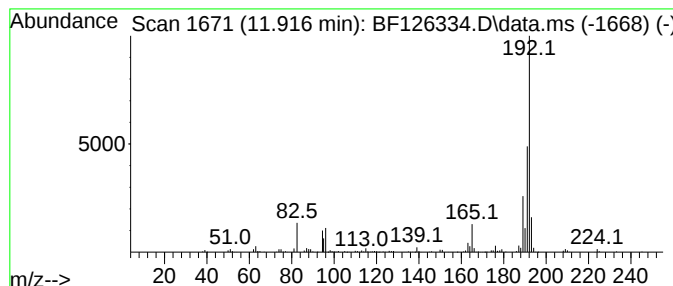
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 11 Anthracene, 2-methyl- Concentration Rank 19

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 11.916 | 8.57 ng | 387752 | Phenanthrene-d10 | 11.339 |

| Hit# | of | 5 | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------|-----|---------|-------------|------|
| 1    |    |   | Anthracene, 2-methyl-   | 192 | C15H12  | 000613-12-7 | 96   |
| 2    |    |   | Phenanthrene, 2-methyl- | 192 | C15H12  | 002531-84-2 | 96   |
| 3    |    |   | Anthracene, 9-methyl-   | 192 | C15H12  | 000779-02-2 | 95   |
| 4    |    |   | Phenanthrene, 9-methyl- | 192 | C15H12  | 000883-20-5 | 95   |
| 5    |    |   | Phenanthrene, 3-methyl- | 192 | C15H12  | 000832-71-3 | 95   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF122221\  
Data File : BF126334.D  
Acq On : 22 Dec 2021 17:49  
Operator : JU/CG  
Sample : M5198-02 10X  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-91SB-22-G2

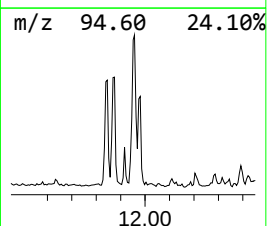
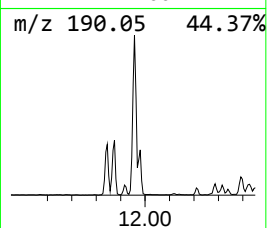
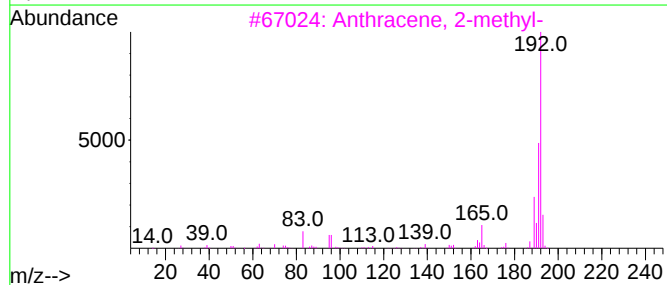
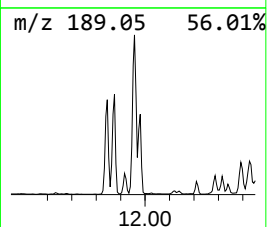
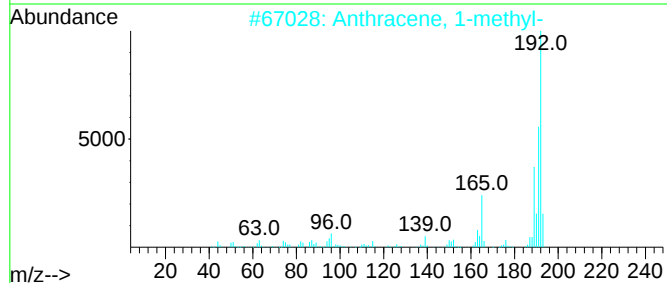
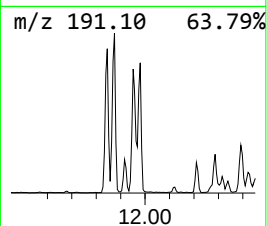
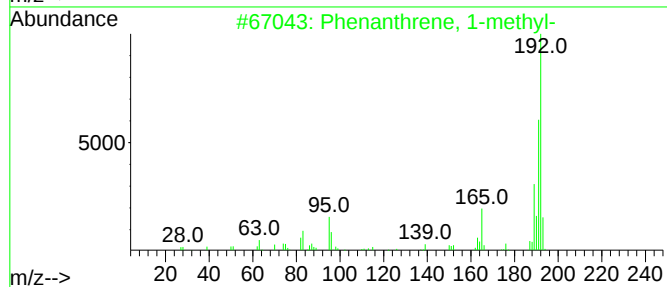
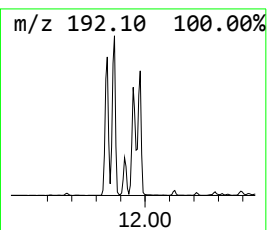
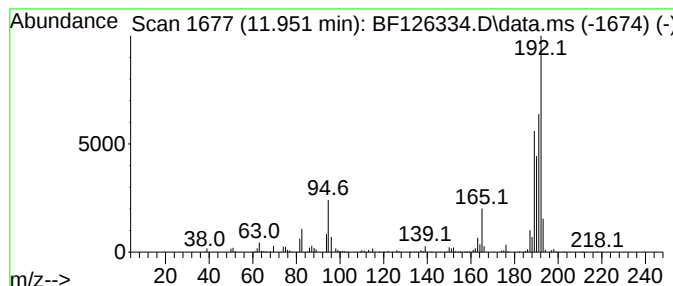
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 12 Phenanthrene, 1-methyl- Concentration Rank 1

| R.T.   | EstConc  | Area    | Relative to ISTD | R.T.   |
|--------|----------|---------|------------------|--------|
| 11.951 | 51.39 ng | 2324120 | Phenanthrene-d10 | 11.339 |

| Hit# | of | 5 | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------|-----|---------|-------------|------|
| 1    |    |   | Phenanthrene, 1-methyl- | 192 | C15H12  | 000832-69-9 | 95   |
| 2    |    |   | Anthracene, 1-methyl-   | 192 | C15H12  | 000610-48-0 | 89   |
| 3    |    |   | Anthracene, 2-methyl-   | 192 | C15H12  | 000613-12-7 | 87   |
| 4    |    |   | Phenanthrene, 4-methyl- | 192 | C15H12  | 000832-64-4 | 87   |
| 5    |    |   | Phenanthrene, 2-methyl- | 192 | C15H12  | 002531-84-2 | 60   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF122221\  
Data File : BF126334.D  
Acq On : 22 Dec 2021 17:49  
Operator : JU/CG  
Sample : M5198-02 10X  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-91SB-22-G2

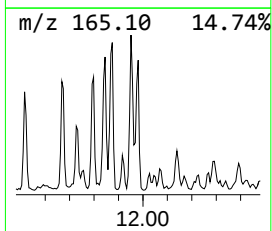
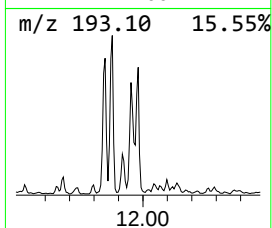
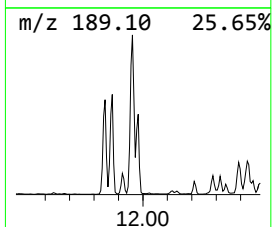
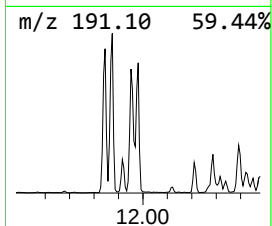
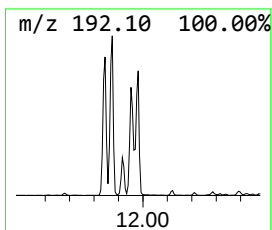
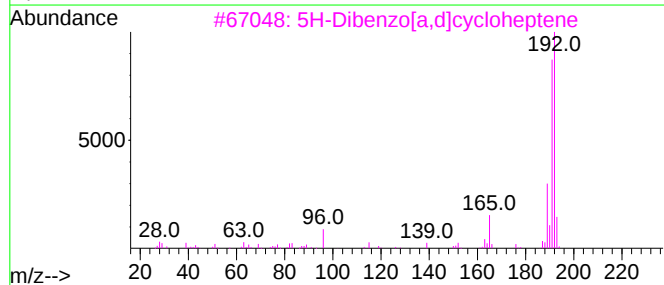
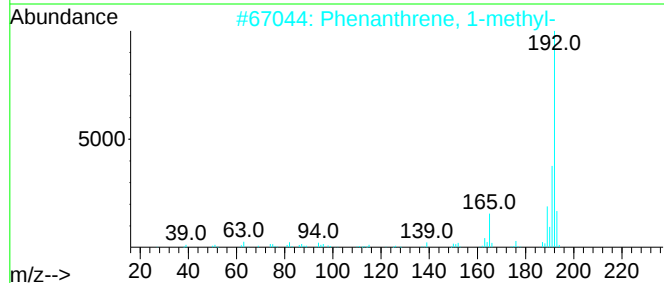
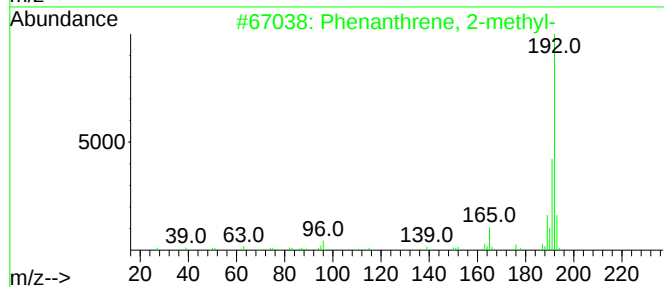
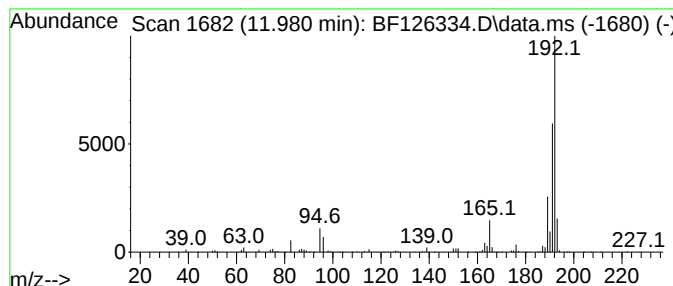
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 13 5H-Dibenzo[a,d]cycloheptene Concentration Rank 4

| R.T.   | EstConc  | Area    | Relative to ISTD | R.T.   |
|--------|----------|---------|------------------|--------|
| 11.980 | 27.38 ng | 1238270 | Phenanthrene-d10 | 11.339 |

| Hit# | of | 5 | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|---|-----------------------------|-----|---------|-------------|------|
| 1    |    |   | Phenanthrene, 2-methyl-     | 192 | C15H12  | 002531-84-2 | 96   |
| 2    |    |   | Phenanthrene, 1-methyl-     | 192 | C15H12  | 000832-69-9 | 95   |
| 3    |    |   | 5H-Dibenzo[a,d]cycloheptene | 192 | C15H12  | 000256-81-5 | 95   |
| 4    |    |   | Anthracene, 2-methyl-       | 192 | C15H12  | 000613-12-7 | 95   |
| 5    |    |   | Phenanthrene, 4-methyl-     | 192 | C15H12  | 000832-64-4 | 93   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF122221\  
Data File : BF126334.D  
Acq On : 22 Dec 2021 17:49  
Operator : JU/CG  
Sample : M5198-02 10X  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
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ClientSampleId :  
SB-91SB-22-G2

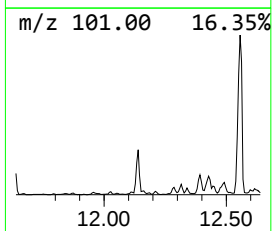
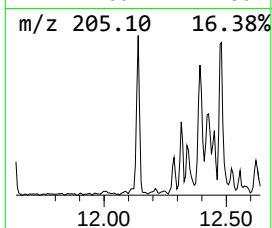
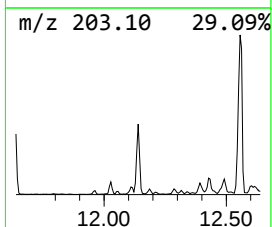
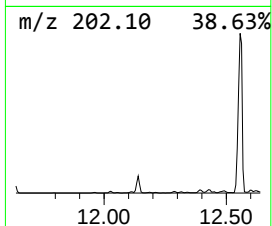
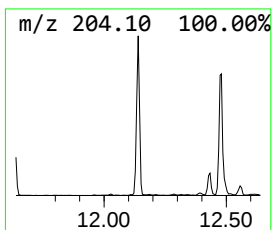
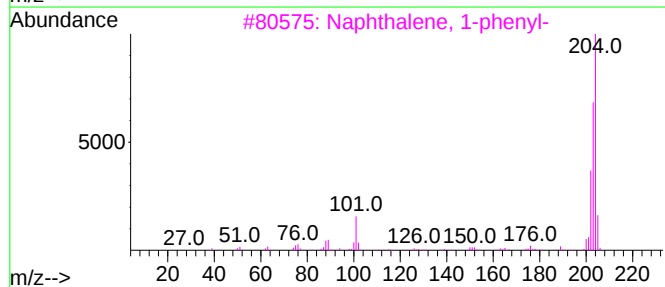
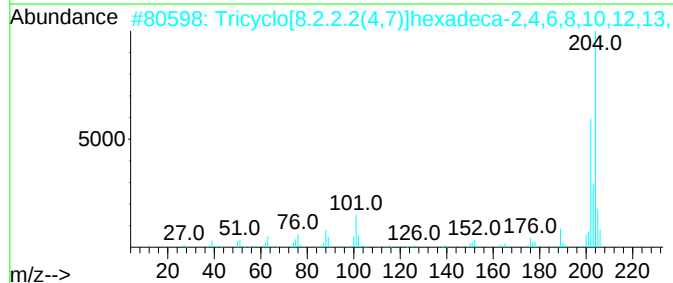
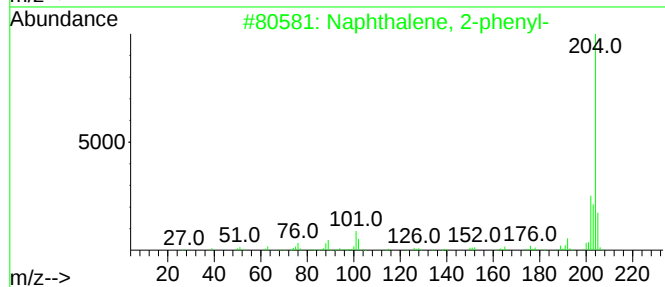
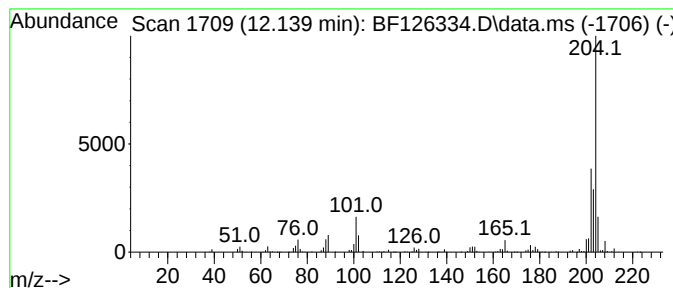
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 14 Naphthalene, 2-phenyl- Concentration Rank 8

| R.T.   | EstConc  | Area    | Relative to ISTD | R.T.   |
|--------|----------|---------|------------------|--------|
| 12.139 | 24.27 ng | 1097750 | Phenanthrene-d10 | 11.339 |

| Hit# | of | 5 | Tentative ID                                     | MW  | MolForm | CAS#         | Qual |
|------|----|---|--------------------------------------------------|-----|---------|--------------|------|
| 1    |    |   | Naphthalene, 2-phenyl-                           | 204 | C16H12  | 000612-94-2  | 86   |
| 2    |    |   | Tricyclo[8.2.2.2(4,7)]hexadeca-2...              | 204 | C16H12  | 006572-60-7  | 86   |
| 3    |    |   | Naphthalene, 1-phenyl-                           | 204 | C16H12  | 000605-02-7  | 78   |
| 4    |    |   | 9,10-ethenoanthracene, 9,10-dihy...              | 204 | C16H12  | 1000400-47-8 | 53   |
| 5    |    |   | 5,16[1',2']: <sup>8</sup> ,13[1'',2'']-Dibenz... | 408 | C32H24  | 005672-97-9  | 47   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF122221\  
Data File : BF126334.D  
Acq On : 22 Dec 2021 17:49  
Operator : JU/CG  
Sample : M5198-02 10X  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-91SB-22-G2

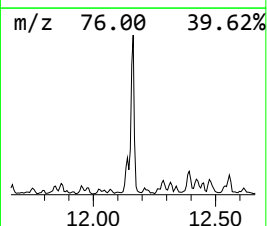
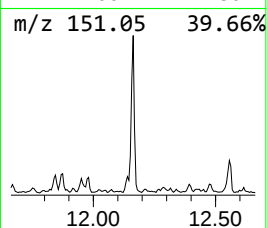
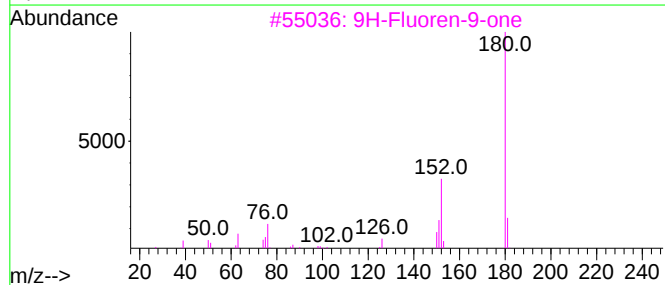
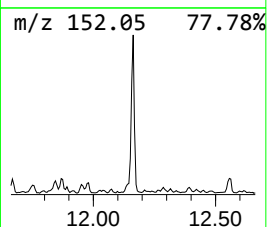
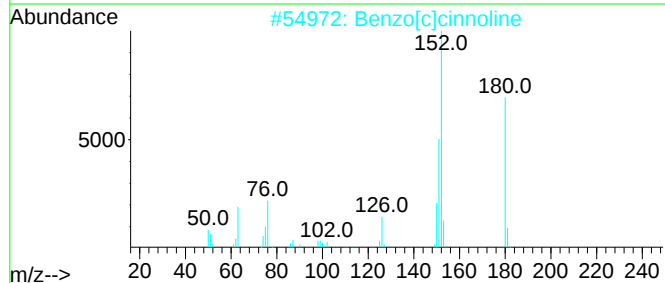
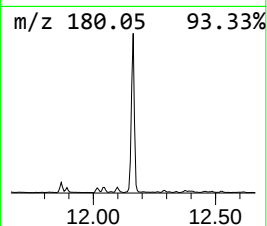
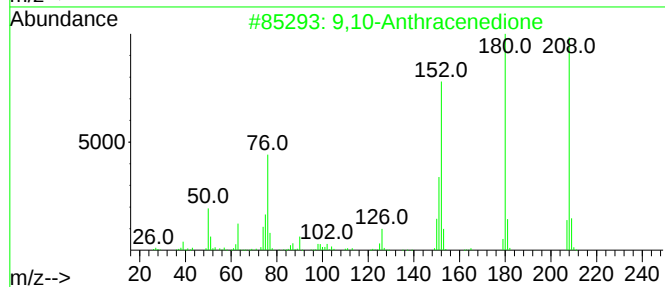
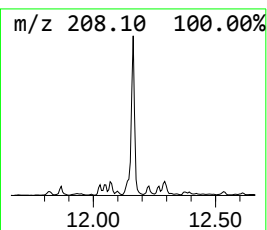
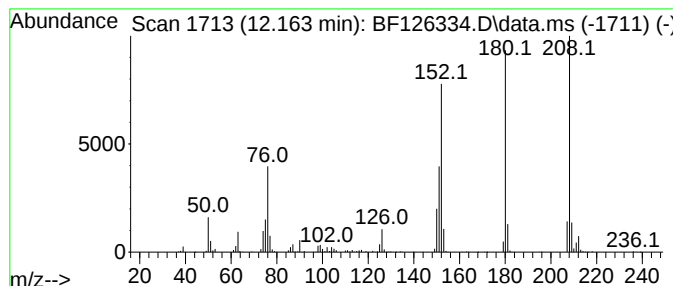
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 15 9,10-Anthracenedione Concentration Rank 6

| R.T.   | EstConc  | Area    | Relative to ISTD | R.T.   |
|--------|----------|---------|------------------|--------|
| 12.163 | 25.18 ng | 1138800 | Phenanthrene-d10 | 11.339 |

| Hit# | of 5 | Tentative ID         | MW  | MolForm | CAS#        | Qual |
|------|------|----------------------|-----|---------|-------------|------|
| 1    |      | 9,10-Anthracenedione | 208 | C14H8O2 | 000084-65-1 | 99   |
| 2    |      | Benzo[c]cinnoline    | 180 | C12H8N2 | 000230-17-1 | 91   |
| 3    |      | 9H-Fluoren-9-one     | 180 | C13H8O  | 000486-25-9 | 90   |
| 4    |      | 1H-Phenalen-1-one    | 180 | C13H8O  | 000548-39-0 | 64   |
| 5    |      | 1,4-Anthracenedione  | 208 | C14H8O2 | 000635-12-1 | 43   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF122221\  
Data File : BF126334.D  
Acq On : 22 Dec 2021 17:49  
Operator : JU/CG  
Sample : M5198-02 10X  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

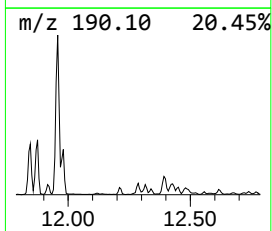
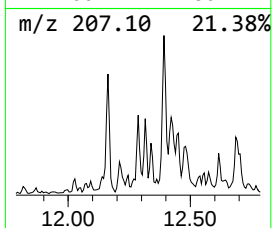
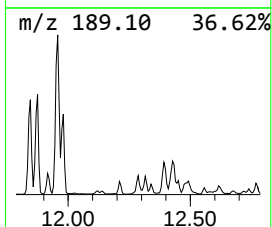
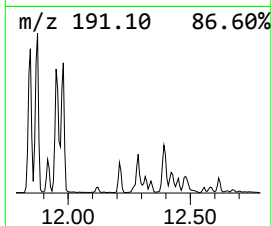
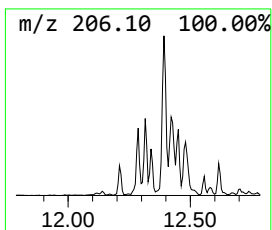
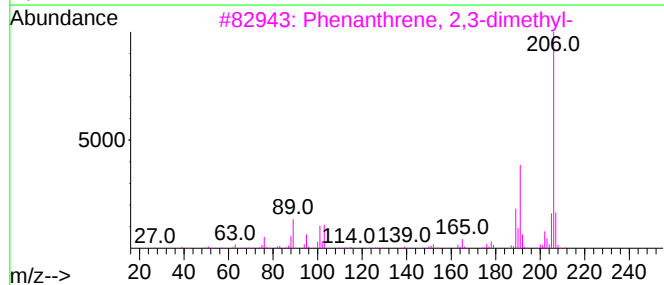
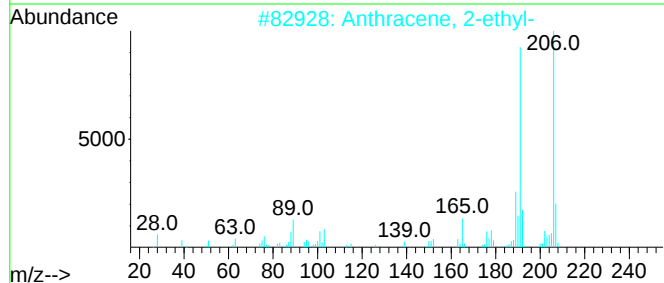
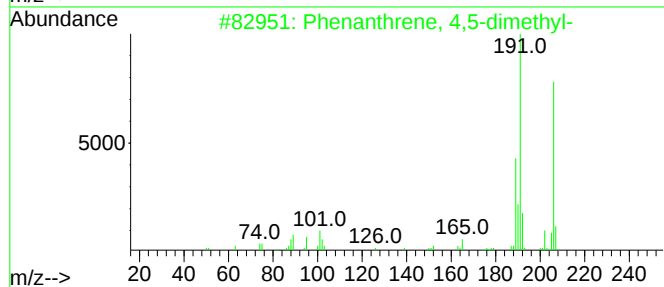
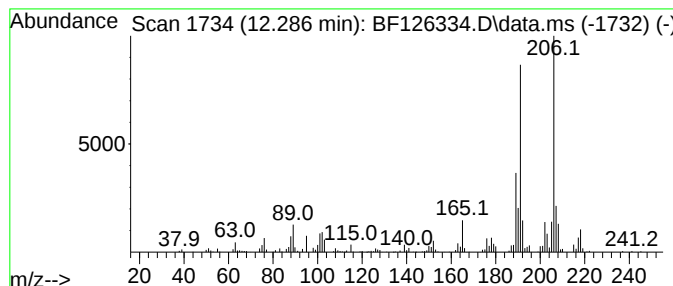
Instrument :  
BNA\_F  
ClientSampleId :  
SB-91SB-22-G2

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF121521.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 16 Phenanthrene, 4,5-dimethyl- Concentration Rank 17

| R.T.      | EstConc                       | Area   | Relative to ISTD |         | R.T.        |      |
|-----------|-------------------------------|--------|------------------|---------|-------------|------|
| 12.286    | 10.28 ng                      | 464839 | Phenanthrene-d10 |         | 11.339      |      |
| Hit# of 5 | Tentative ID                  |        | MW               | MolForm | CAS#        | Qual |
| 1         | Phenanthrene, 4,5-dimethyl-   |        | 206              | C16H14  | 003674-69-9 | 97   |
| 2         | Anthracene, 2-ethyl-          |        | 206              | C16H14  | 052251-71-5 | 91   |
| 3         | Phenanthrene, 2,3-dimethyl-   |        | 206              | C16H14  | 003674-65-5 | 91   |
| 4         | 1-Methyl-3-phenyl-1H-indene   |        | 206              | C16H14  | 022360-62-9 | 90   |
| 5         | 1H-Indene, 2-methyl-3-phenyl- |        | 206              | C16H14  | 035099-60-6 | 89   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF122221\  
Data File : BF126334.D  
Acq On : 22 Dec 2021 17:49  
Operator : JU/CG  
Sample : M5198-02 10X  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-91SB-22-G2

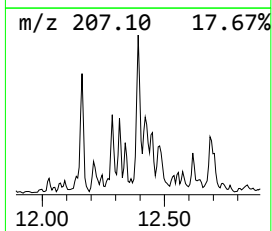
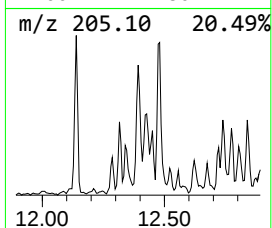
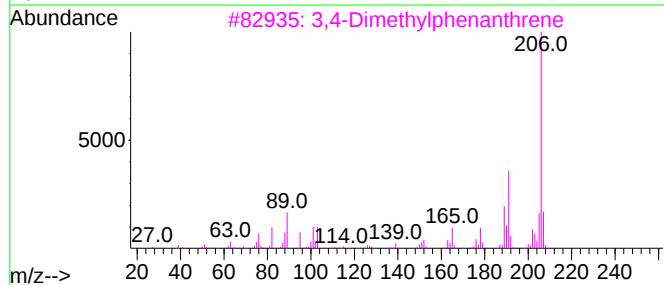
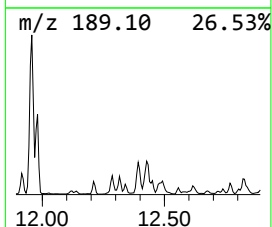
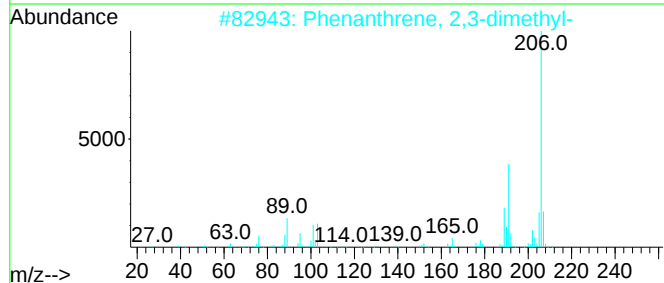
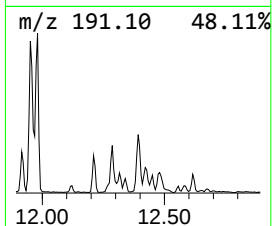
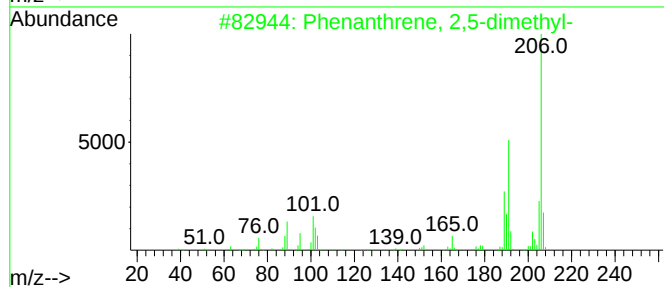
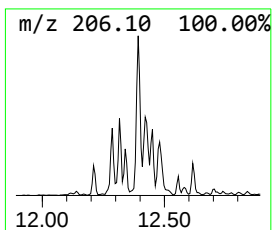
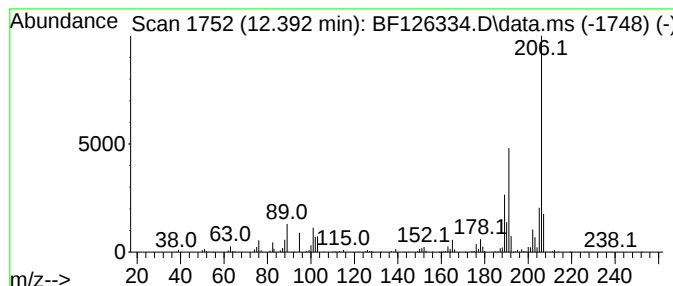
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 17 Phenanthrene, 2,5-dimethyl- Concentration Rank 10

| R.T.   | EstConc  | Area   | Relative to ISTD | R.T.   |
|--------|----------|--------|------------------|--------|
| 12.392 | 19.93 ng | 901442 | Phenanthrene-d10 | 11.339 |

| Hit# | of | 5 | Tentative ID                | MW  | MolForm | CAS#         | Qual |
|------|----|---|-----------------------------|-----|---------|--------------|------|
| 1    |    |   | Phenanthrene, 2,5-dimethyl- | 206 | C16H14  | 003674-66-6  | 95   |
| 2    |    |   | Phenanthrene, 2,3-dimethyl- | 206 | C16H14  | 003674-65-5  | 94   |
| 3    |    |   | 3,4-Dimethylphenanthrene    | 206 | C16H14  | 1000452-24-5 | 91   |
| 4    |    |   | 9,10-Dimethylantracene      | 206 | C16H14  | 000781-43-1  | 91   |
| 5    |    |   | Phenanthrene, 3,6-dimethyl- | 206 | C16H14  | 001576-67-6  | 90   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF122221\  
Data File : BF126334.D  
Acq On : 22 Dec 2021 17:49  
Operator : JU/CG  
Sample : M5198-02 10X  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-91SB-22-G2

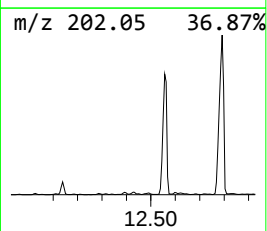
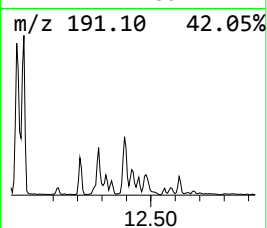
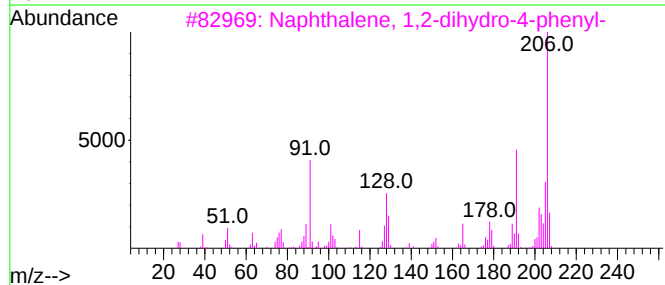
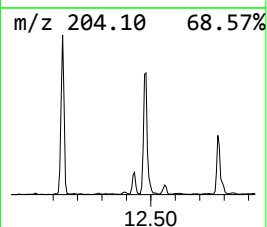
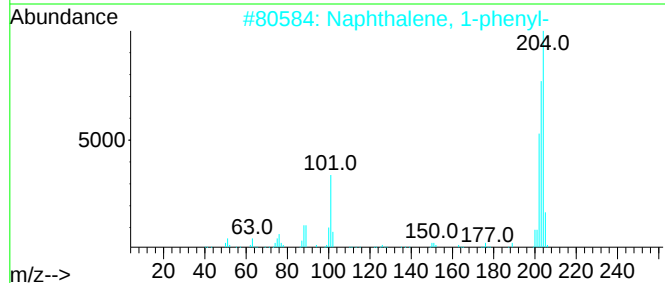
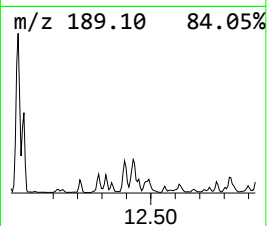
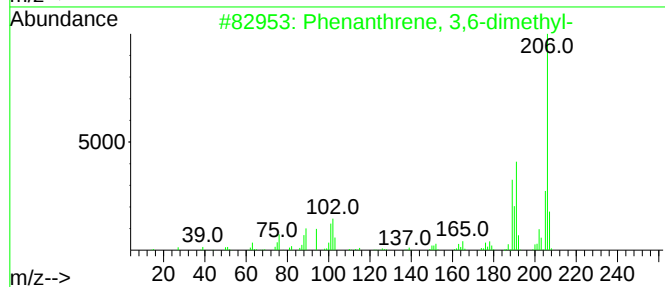
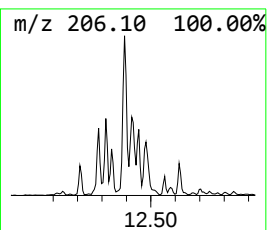
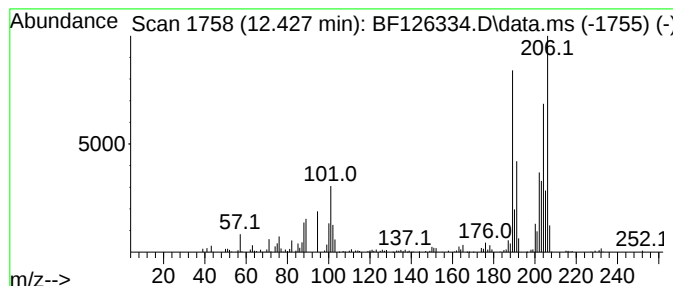
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 18 Phenanthrene, 3,6-dimethyl- Concentration Rank 13

| R.T.   | EstConc  | Area   | Relative to ISTD | R.T.   |
|--------|----------|--------|------------------|--------|
| 12.427 | 14.62 ng | 661385 | Phenanthrene-d10 | 11.339 |

| Hit# | of | 5 | Tentative ID                         | MW  | MolForm | CAS#        | Qual |
|------|----|---|--------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Phenanthrene, 3,6-dimethyl-          | 206 | C16H14  | 001576-67-6 | 90   |
| 2    |    |   | Naphthalene, 1-phenyl-               | 204 | C16H12  | 000605-02-7 | 44   |
| 3    |    |   | Naphthalene, 1,2-dihydro-4-phenyl-   | 206 | C16H14  | 007469-40-1 | 43   |
| 4    |    |   | Pyrene, 4,5,9,10-tetrahydro-         | 206 | C16H14  | 000781-17-9 | 38   |
| 5    |    |   | 1,2,4,8-Tetramethylbicyclo[6.3.0...] | 204 | C15H24  | 137235-51-9 | 30   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF122221\  
Data File : BF126334.D  
Acq On : 22 Dec 2021 17:49  
Operator : JU/CG  
Sample : M5198-02 10X  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-91SB-22-G2

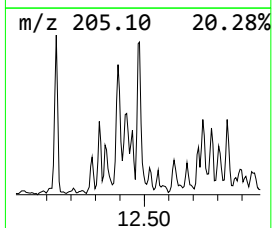
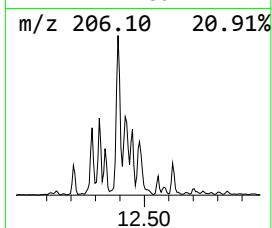
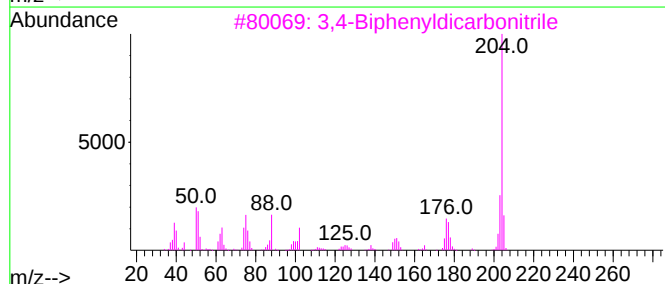
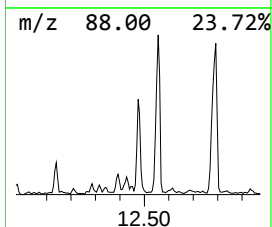
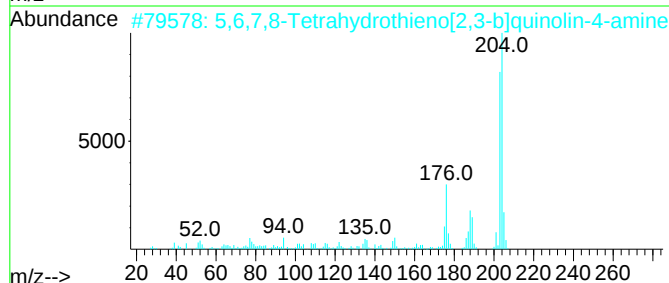
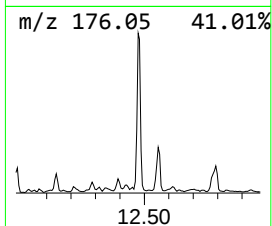
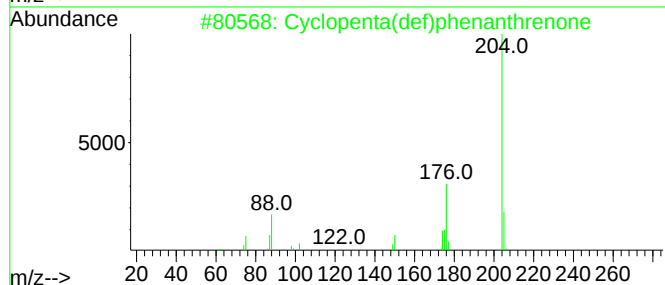
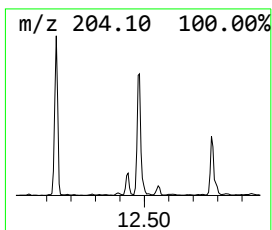
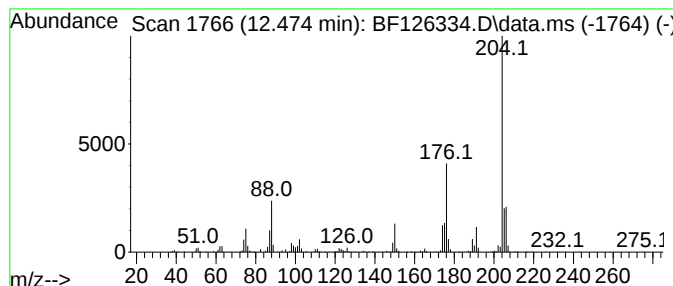
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 19 Cyclopenta(def)phenanthrenone Concentration Rank 7

| R.T.   | EstConc  | Area                                | Relative to ISTD |           | R.T.        |      |
|--------|----------|-------------------------------------|------------------|-----------|-------------|------|
| 12.475 | 24.94 ng | 1128030                             | Phenanthrene-d10 |           | 11.339      |      |
| Hit#   | of 5     | Tentative ID                        | MW               | MolForm   | CAS#        | Qual |
| 1      |          | Cyclopenta(def)phenanthrenone       | 204              | C15H8O    | 005737-13-3 | 97   |
| 2      |          | 5,6,7,8-Tetrahydrothieno[2,3-b]q... | 204              | C11H12N2S | 122914-50-5 | 47   |
| 3      |          | 3,4-Biphenyldicarbonitrile          | 204              | C14H8N2   | 004128-63-6 | 42   |
| 4      |          | 1,2,4,8-Tetramethylbicyclo[6.3.0... | 204              | C15H24    | 137235-51-9 | 41   |
| 5      |          | [1,1'-Biphenyl]-4,4'-dicarbonitrile | 204              | C14H8N2   | 001591-30-6 | 38   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF122221\  
Data File : BF126334.D  
Acq On : 22 Dec 2021 17:49  
Operator : JU/CG  
Sample : M5198-02 10X  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-91SB-22-G2

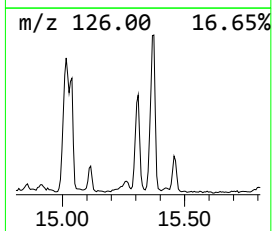
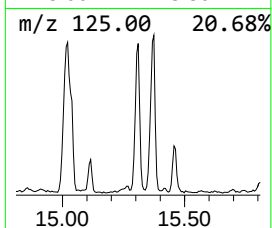
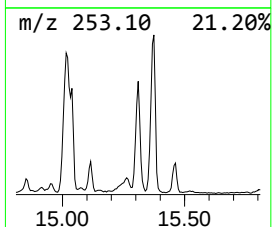
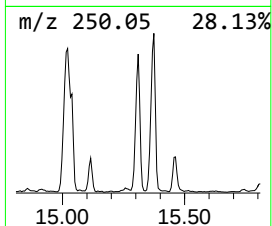
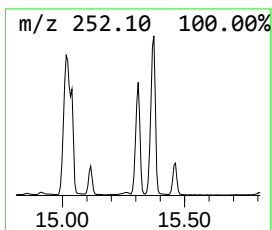
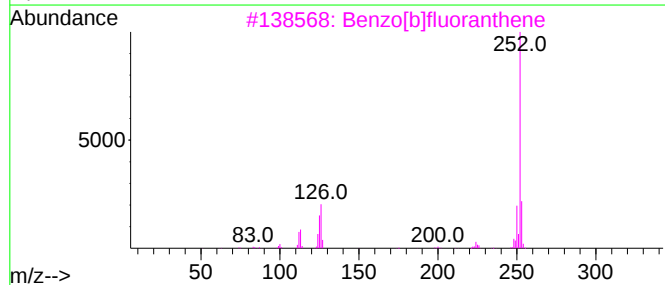
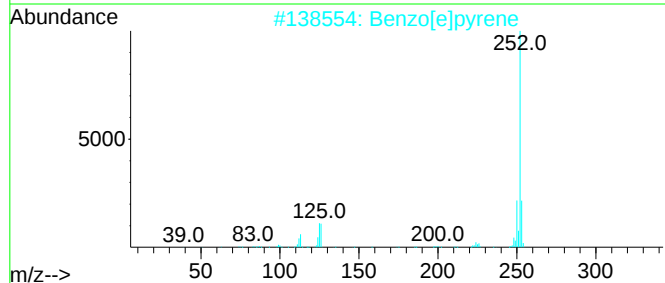
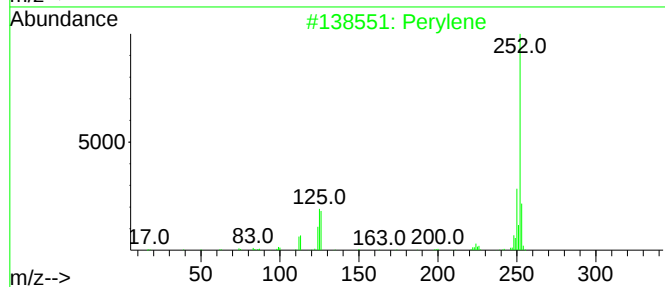
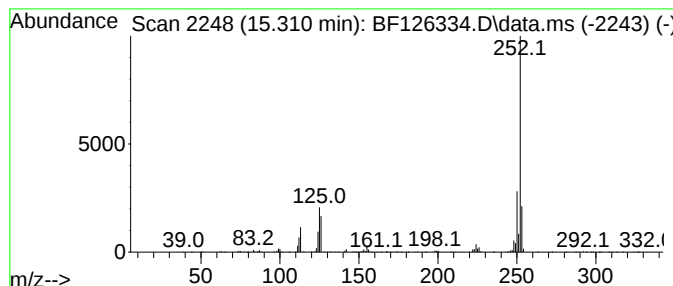
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 20 Perylene Concentration Rank 5

| R.T.   | EstConc  | Area    | Relative to ISTD | R.T.   |
|--------|----------|---------|------------------|--------|
| 15.310 | 25.30 ng | 1210530 | Perylene-d12     | 15.433 |

| Hit# | of 5 | Tentative ID         | MW  | MolForm | CAS#        | Qual |
|------|------|----------------------|-----|---------|-------------|------|
| 1    |      | Perylene             | 252 | C20H12  | 000198-55-0 | 98   |
| 2    |      | Benzo[e]pyrene       | 252 | C20H12  | 000192-97-2 | 97   |
| 3    |      | Benzo[b]fluoranthene | 252 | C20H12  | 000205-99-2 | 97   |
| 4    |      | Benzo[a]pyrene       | 252 | C20H12  | 000050-32-8 | 97   |
| 5    |      | Benzo[k]fluoranthene | 252 | C20H12  | 000207-08-9 | 90   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF122221\  
 Data File : BF126334.D  
 Acq On : 22 Dec 2021 17:49  
 Operator : JU/CG  
 Sample : M5198-02 10X  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-91SB-22-G2

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF121521.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 |
| Naphthalene, 1,... | 9.439  | 13.7    | ng    | 799845   | 3                     | 9.851  | 1169590 | 20.0 |
| Naphthalene, 2,... | 9.510  | 17.3    | ng    | 1013850  | 3                     | 9.851  | 1169590 | 20.0 |
| Naphthalene, 2,... | 9.539  | 9.7     | ng    | 566962   | 3                     | 9.851  | 1169590 | 20.0 |
| Naphthalene, 1,... | 9.628  | 10.8    | ng    | 631115   | 3                     | 9.851  | 1169590 | 20.0 |
| 9H-Fluorene, 2-... | 10.945 | 8.5     | ng    | 385145   | 4                     | 11.339 | 904556  | 20.0 |
| 9H-Fluorene-9-one  | 11.145 | 16.0    | ng    | 722302   | 4                     | 11.339 | 904556  | 20.0 |
| Dibenzothiophene   | 11.233 | 20.2    | ng    | 913949   | 4                     | 11.339 | 904556  | 20.0 |
| Dibenzothiophen... | 11.669 | 13.2    | ng    | 598889   | 4                     | 11.339 | 904556  | 20.0 |
| Phenanthrene, 4... | 11.845 | 39.5    | ng    | 1784580  | 4                     | 11.339 | 904556  | 20.0 |
| Phenanthrene, 2... | 11.874 | 40.4    | ng    | 1826180  | 4                     | 11.339 | 904556  | 20.0 |
| Anthracene, 2-m... | 11.916 | 8.6     | ng    | 387752   | 4                     | 11.339 | 904556  | 20.0 |
| Phenanthrene, 1... | 11.951 | 51.4    | ng    | 2324120  | 4                     | 11.339 | 904556  | 20.0 |
| 5H-Dibenzo[a,d]... | 11.980 | 27.4    | ng    | 1238270  | 4                     | 11.339 | 904556  | 20.0 |
| Naphthalene, 2-... | 12.139 | 24.3    | ng    | 1097750  | 4                     | 11.339 | 904556  | 20.0 |
| 9,10-Anthracene... | 12.163 | 25.2    | ng    | 1138800  | 4                     | 11.339 | 904556  | 20.0 |
| Phenanthrene, 4... | 12.286 | 10.3    | ng    | 464839   | 4                     | 11.339 | 904556  | 20.0 |
| Phenanthrene, 2... | 12.392 | 19.9    | ng    | 901442   | 4                     | 11.339 | 904556  | 20.0 |
| Phenanthrene, 3... | 12.427 | 14.6    | ng    | 661385   | 4                     | 11.339 | 904556  | 20.0 |
| Cyclopenta(def)... | 12.475 | 24.9    | ng    | 1128030  | 4                     | 11.339 | 904556  | 20.0 |
| Perylene           | 15.310 | 25.3    | ng    | 1210530  | 6                     | 15.433 | 956840  | 20.0 |