

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA\_F\DATA\BF121417\  
 Data File : BF101410.D  
 Acq On : 14 Dec 2017 22:57  
 Operator : SJ/JU  
 Sample : I6844-01 100X  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 WC-9974103-01

Integration Parameters: rteint.p  
 Integrator: RTE  
 Smoothing : ON  
 Sampling : 1  
 Start Thrs: 0.2  
 Stop Thrs : 0  
 Filtering: 5  
 Min Area: 3 % of largest Peak  
 Max Peaks: 100  
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
 Peak separation: 5

Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF121417.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 5.392       | 559           | 562         | 573          | rBV      | 85500          | 136105        | 1.34%           | 0.169%        |
| 2         | 6.463       | 741           | 744         | 761          | rBV      | 664395         | 879422        | 8.64%           | 1.090%        |
| 3         | 6.633       | 770           | 773         | 777          | rBV2     | 113977         | 139026        | 1.37%           | 0.172%        |
| 4         | 6.816       | 800           | 804         | 811          | rBV      | 949663         | 971988        | 9.55%           | 1.204%        |
| 5         | 7.075       | 844           | 848         | 862          | rBV      | 1593868        | 1756543       | 17.27%          | 2.176%        |
| 6         | 7.228       | 871           | 874         | 886          | rBV      | 622173         | 931024        | 9.15%           | 1.154%        |
| 7         | 7.516       | 918           | 923         | 926          | rBV2     | 134045         | 158811        | 1.56%           | 0.197%        |
| 8         | 7.763       | 961           | 965         | 974          | rBV3     | 114040         | 248087        | 2.44%           | 0.307%        |
| 9         | 7.845       | 974           | 979         | 982          | rVV2     | 150738         | 173492        | 1.71%           | 0.215%        |
| 10        | 7.880       | 982           | 985         | 986          | rVV      | 125502         | 134102        | 1.32%           | 0.166%        |
| 11        | 7.898       | 986           | 988         | 996          | rVB2     | 214894         | 236776        | 2.33%           | 0.293%        |
| 12        | 8.133       | 1018          | 1028        | 1031         | rBV2     | 5902448        | 10173857      | 100.00%         | 12.606%       |
| 13        | 8.175       | 1031          | 1035        | 1042         | rVB      | 478626         | 485107        | 4.77%           | 0.601%        |
| 14        | 8.457       | 1080          | 1083        | 1094         | rBV      | 516567         | 578501        | 5.69%           | 0.717%        |
| 15        | 8.745       | 1129          | 1132        | 1139         | rVB      | 348879         | 376247        | 3.70%           | 0.466%        |
| 16        | 8.810       | 1139          | 1143        | 1149         | rBV      | 3041594        | 2900082       | 28.51%          | 3.593%        |
| 17        | 8.875       | 1149          | 1154        | 1156         | rVV2     | 152620         | 184725        | 1.82%           | 0.229%        |
| 18        | 8.910       | 1156          | 1160        | 1166         | rVB      | 1732718        | 1510232       | 14.84%          | 1.871%        |
| 19        | 9.274       | 1218          | 1222        | 1227         | rBV      | 784805         | 757834        | 7.45%           | 0.939%        |
| 20        | 9.439       | 1245          | 1250        | 1254         | rBV      | 424304         | 579589        | 5.70%           | 0.718%        |
| 21        | 9.510       | 1258          | 1262        | 1264         | rBV      | 541527         | 535029        | 5.26%           | 0.663%        |
| 22        | 9.533       | 1264          | 1266        | 1271         | rVV      | 350393         | 335796        | 3.30%           | 0.416%        |
| 23        | 9.574       | 1271          | 1273        | 1277         | rVB      | 253009         | 226626        | 2.23%           | 0.281%        |
| 24        | 9.627       | 1277          | 1282        | 1288         | rBV2     | 264990         | 322023        | 3.17%           | 0.399%        |
| 25        | 9.716       | 1293          | 1297        | 1300         | rBV      | 2975314        | 2562322       | 25.19%          | 3.175%        |
| 26        | 9.833       | 1313          | 1317        | 1318         | rBV      | 286101         | 285810        | 2.81%           | 0.354%        |
| 27        | 9.851       | 1318          | 1320        | 1323         | rVV2     | 1523131        | 1345713       | 13.23%          | 1.667%        |
| 28        | 9.886       | 1323          | 1326        | 1330         | rVB2     | 435238         | 394244        | 3.88%           | 0.488%        |
| 29        | 9.933       | 1330          | 1334        | 1336         | rBV      | 148814         | 134349        | 1.32%           | 0.166%        |
| 30        | 10.057      | 1352          | 1355        | 1358         | rBV      | 1960780        | 1826754       | 17.96%          | 2.263%        |
| 31        | 10.092      | 1358          | 1361        | 1365         | rVB2     | 126275         | 155680        | 1.53%           | 0.193%        |
| 32        | 10.163      | 1370          | 1373        | 1376         | rBV2     | 137189         | 135050        | 1.33%           | 0.167%        |
| 33        | 10.310      | 1395          | 1398        | 1403         | rBV      | 200902         | 200049        | 1.97%           | 0.248%        |
| 34        | 10.404      | 1410          | 1414        | 1420         | rVB      | 3075418        | 2919820       | 28.70%          | 3.618%        |

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 WC-9974103-01

Integration Parameters: rteint.p  
 Integrator: RTE  
 Smoothing : ON  
 Sampling : 1  
 Start Thrs: 0.2  
 Stop Thrs : 0

Filtering: 5  
 Min Area: 3 % of largest Peak  
 Max Peaks: 100  
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
 Peak separation: 5

Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF121417.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 35 | 10.510 | 1430 | 1432 | 1437 | rVV  | 211005  | 256589  | 2.52%  | 0.318% |
| 36 | 10.557 | 1437 | 1440 | 1443 | rVV  | 520115  | 487604  | 4.79%  | 0.604% |
| 37 | 10.586 | 1443 | 1445 | 1448 | rVB2 | 178604  | 147377  | 1.45%  | 0.183% |
| 38 | 10.627 | 1448 | 1452 | 1459 | rBV2 | 604816  | 1136423 | 11.17% | 1.408% |
| 39 | 10.951 | 1502 | 1507 | 1510 | rBV  | 405318  | 433189  | 4.26%  | 0.537% |
| 40 | 11.033 | 1518 | 1521 | 1526 | rBV2 | 165606  | 173367  | 1.70%  | 0.215% |
| 41 | 11.098 | 1530 | 1532 | 1537 | rVV2 | 137724  | 166381  | 1.64%  | 0.206% |
| 42 | 11.151 | 1538 | 1541 | 1544 | rVV2 | 157855  | 149067  | 1.47%  | 0.185% |
| 43 | 11.186 | 1544 | 1547 | 1551 | rVV3 | 131596  | 152324  | 1.50%  | 0.189% |
| 44 | 11.239 | 1551 | 1556 | 1563 | rVB  | 559557  | 555410  | 5.46%  | 0.688% |
| 45 | 11.345 | 1570 | 1574 | 1576 | rBV  | 1397894 | 1517815 | 14.92% | 1.881% |
| 46 | 11.380 | 1576 | 1580 | 1582 | rVV  | 4824722 | 5572116 | 54.77% | 6.904% |
| 47 | 11.427 | 1582 | 1588 | 1591 | rVV  | 2757509 | 2803918 | 27.56% | 3.474% |
| 48 | 11.463 | 1591 | 1594 | 1598 | rVV  | 160064  | 195215  | 1.92%  | 0.242% |
| 49 | 11.580 | 1609 | 1614 | 1621 | rVV2 | 1302583 | 1365332 | 13.42% | 1.692% |
| 50 | 11.633 | 1621 | 1623 | 1624 | rVV  | 161993  | 131775  | 1.30%  | 0.163% |
| 51 | 11.686 | 1628 | 1632 | 1635 | rVV3 | 139953  | 184750  | 1.82%  | 0.229% |
| 52 | 11.845 | 1655 | 1659 | 1662 | rBV  | 767878  | 684004  | 6.72%  | 0.847% |
| 53 | 11.874 | 1662 | 1664 | 1668 | rVB  | 1002835 | 861223  | 8.47%  | 1.067% |
| 54 | 11.921 | 1668 | 1672 | 1675 | rBV  | 455154  | 442610  | 4.35%  | 0.548% |
| 55 | 11.963 | 1675 | 1679 | 1681 | rBV  | 1414853 | 1446444 | 14.22% | 1.792% |
| 56 | 12.057 | 1693 | 1695 | 1697 | rVV  | 169632  | 131022  | 1.29%  | 0.162% |
| 57 | 12.110 | 1697 | 1704 | 1706 | rVV3 | 85267   | 151438  | 1.49%  | 0.188% |
| 58 | 12.139 | 1706 | 1709 | 1714 | rVB  | 561140  | 473256  | 4.65%  | 0.586% |
| 59 | 12.392 | 1747 | 1752 | 1756 | rBV2 | 218221  | 299669  | 2.95%  | 0.371% |
| 60 | 12.433 | 1756 | 1759 | 1761 | rVV  | 158353  | 182765  | 1.80%  | 0.226% |
| 61 | 12.568 | 1777 | 1782 | 1785 | rBV  | 3815432 | 3918055 | 38.51% | 4.855% |
| 62 | 12.657 | 1794 | 1797 | 1801 | rVV  | 942831  | 774225  | 7.61%  | 0.959% |
| 63 | 12.710 | 1801 | 1806 | 1808 | rVV2 | 163007  | 188328  | 1.85%  | 0.233% |
| 64 | 12.774 | 1814 | 1817 | 1818 | rVV  | 683090  | 668381  | 6.57%  | 0.828% |
| 65 | 12.798 | 1818 | 1821 | 1826 | rVV  | 3016481 | 3010256 | 29.59% | 3.730% |
| 66 | 12.839 | 1826 | 1828 | 1833 | rVB2 | 229443  | 213805  | 2.10%  | 0.265% |
| 67 | 12.910 | 1836 | 1840 | 1844 | rBV  | 329540  | 299042  | 2.94%  | 0.371% |
| 68 | 12.957 | 1844 | 1848 | 1852 | rVB  | 272557  | 274964  | 2.70%  | 0.341% |
| 69 | 13.010 | 1852 | 1857 | 1861 | rBV2 | 259425  | 464232  | 4.56%  | 0.575% |
| 70 | 13.092 | 1867 | 1871 | 1873 | rBV2 | 225293  | 304512  | 2.99%  | 0.377% |
| 71 | 13.121 | 1873 | 1876 | 1879 | rVV  | 983948  | 897585  | 8.82%  | 1.112% |

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Instrument :  
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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:\HPCHEM1\BNA\_F\METHODS\8270-BF121417.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|     |        |      |      |      |      |         |         |        |        |
|-----|--------|------|------|------|------|---------|---------|--------|--------|
| 72  | 13.186 | 1884 | 1887 | 1890 | rVV  | 1151804 | 990751  | 9.74%  | 1.228% |
| 73  | 13.221 | 1890 | 1893 | 1900 | rVB2 | 362787  | 500214  | 4.92%  | 0.620% |
| 74  | 13.292 | 1900 | 1905 | 1907 | rBV3 | 272576  | 343390  | 3.38%  | 0.425% |
| 75  | 13.315 | 1907 | 1909 | 1912 | rVV  | 218122  | 245974  | 2.42%  | 0.305% |
| 76  | 13.351 | 1912 | 1915 | 1923 | rVB2 | 255035  | 358684  | 3.53%  | 0.444% |
| 77  | 13.598 | 1954 | 1957 | 1961 | rBV2 | 112859  | 155946  | 1.53%  | 0.193% |
| 78  | 13.739 | 1976 | 1981 | 1983 | rBV  | 139033  | 156528  | 1.54%  | 0.194% |
| 79  | 13.762 | 1983 | 1985 | 1988 | rVB  | 267722  | 236955  | 2.33%  | 0.294% |
| 80  | 13.792 | 1988 | 1990 | 1992 | rBV  | 164898  | 156762  | 1.54%  | 0.194% |
| 81  | 13.986 | 2016 | 2023 | 2027 | rBV2 | 1832218 | 3007232 | 29.56% | 3.726% |
| 82  | 14.021 | 2027 | 2029 | 2036 | rVV  | 1266363 | 1102230 | 10.83% | 1.366% |
| 83  | 14.192 | 2055 | 2058 | 2060 | rVV  | 145859  | 146584  | 1.44%  | 0.182% |
| 84  | 14.227 | 2060 | 2064 | 2067 | rVB2 | 128415  | 163768  | 1.61%  | 0.203% |
| 85  | 14.380 | 2085 | 2090 | 2093 | rVV  | 296031  | 397465  | 3.91%  | 0.492% |
| 86  | 14.480 | 2105 | 2107 | 2109 | rVV2 | 184633  | 162312  | 1.60%  | 0.201% |
| 87  | 14.504 | 2109 | 2111 | 2113 | rVV  | 150015  | 152291  | 1.50%  | 0.189% |
| 88  | 14.527 | 2113 | 2115 | 2118 | rVV  | 239821  | 210019  | 2.06%  | 0.260% |
| 89  | 15.039 | 2197 | 2202 | 2204 | rBV  | 786917  | 1110076 | 10.91% | 1.375% |
| 90  | 15.062 | 2204 | 2206 | 2211 | rVB  | 455967  | 454856  | 4.47%  | 0.564% |
| 91  | 15.145 | 2216 | 2220 | 2225 | rVB  | 257905  | 283261  | 2.78%  | 0.351% |
| 92  | 15.339 | 2248 | 2253 | 2260 | rVB  | 428907  | 544993  | 5.36%  | 0.675% |
| 93  | 15.404 | 2260 | 2264 | 2269 | rBV  | 769563  | 916501  | 9.01%  | 1.136% |
| 94  | 15.462 | 2269 | 2274 | 2277 | rVV  | 661070  | 825187  | 8.11%  | 1.022% |
| 95  | 15.492 | 2277 | 2279 | 2286 | rVB2 | 195213  | 294333  | 2.89%  | 0.365% |
| 96  | 15.686 | 2306 | 2312 | 2317 | rVB5 | 91352   | 238865  | 2.35%  | 0.296% |
| 97  | 16.939 | 2518 | 2525 | 2532 | rBV  | 363924  | 728037  | 7.16%  | 0.902% |
| 98  | 17.109 | 2548 | 2554 | 2559 | rBV  | 99988   | 197686  | 1.94%  | 0.245% |
| 99  | 17.392 | 2595 | 2602 | 2616 | rBV  | 222480  | 522597  | 5.14%  | 0.648% |
| 100 | 17.633 | 2637 | 2643 | 2655 | rVB  | 119315  | 300489  | 2.95%  | 0.372% |

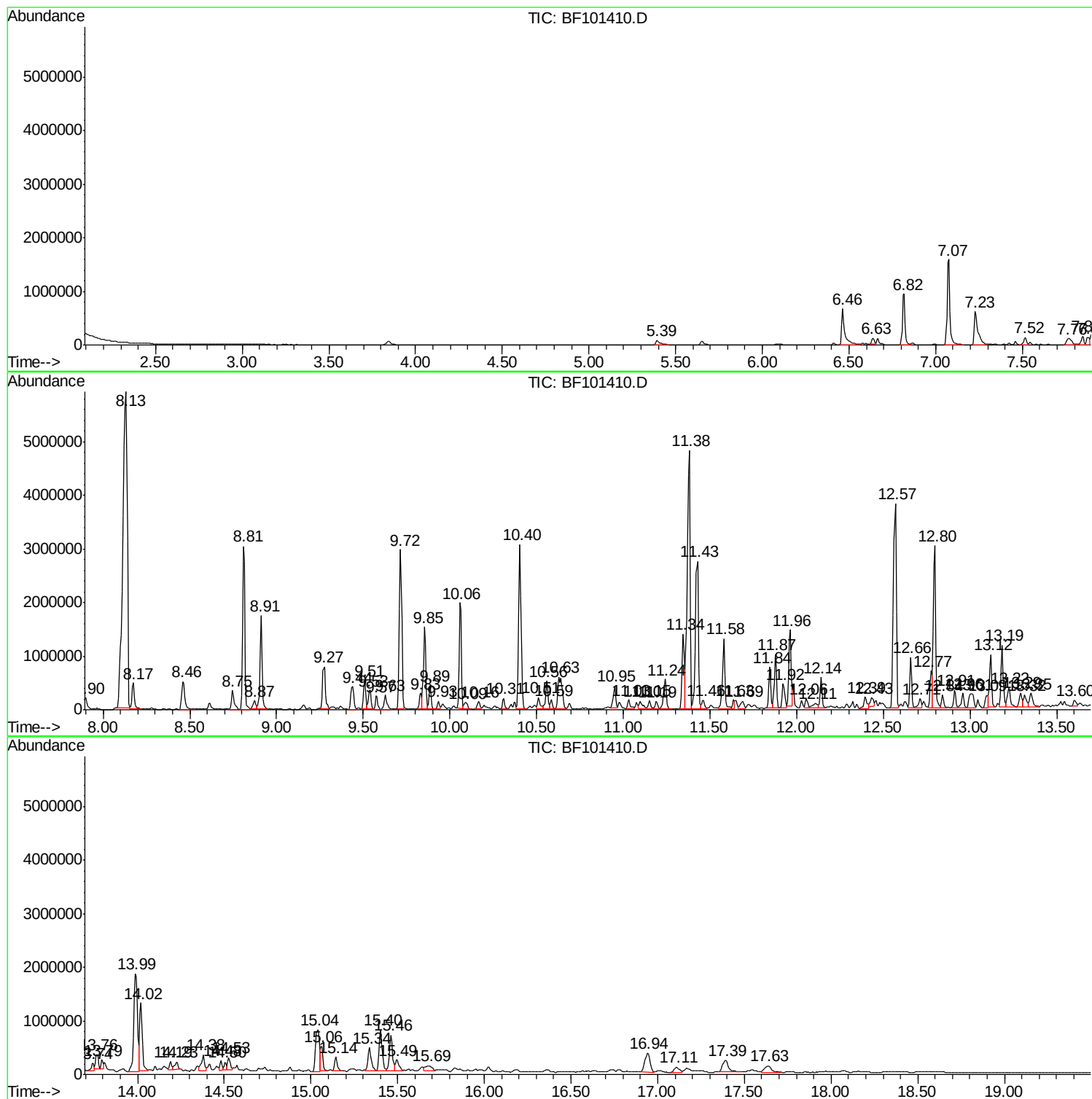
Sum of corrected areas: 80709269

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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF121417.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



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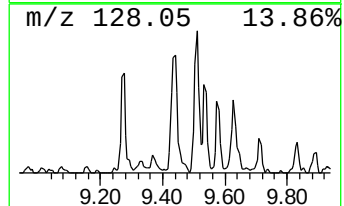
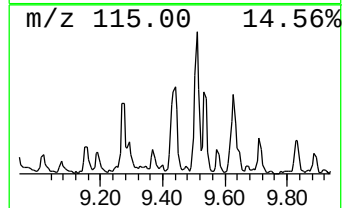
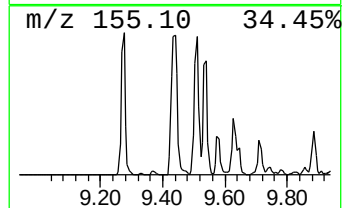
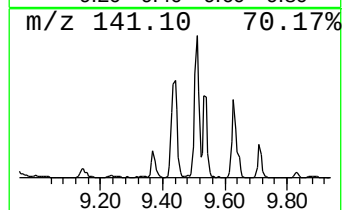
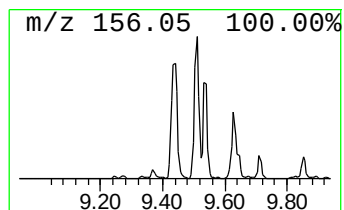
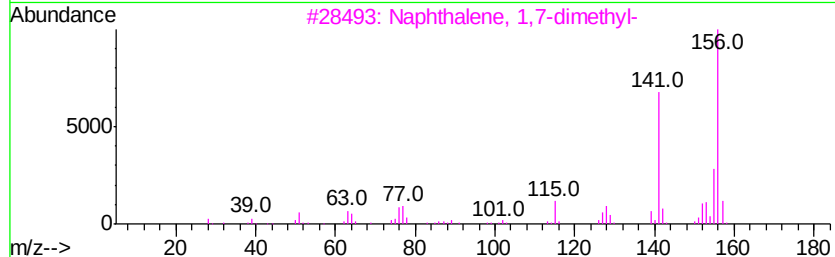
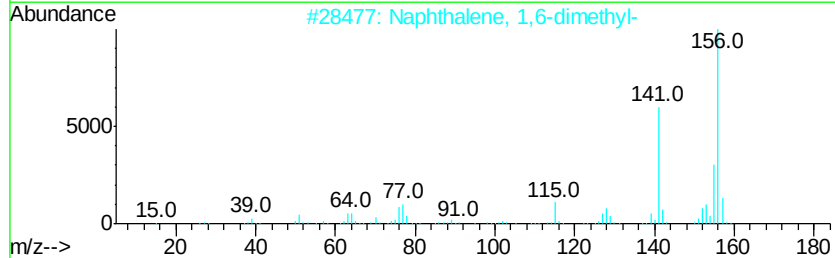
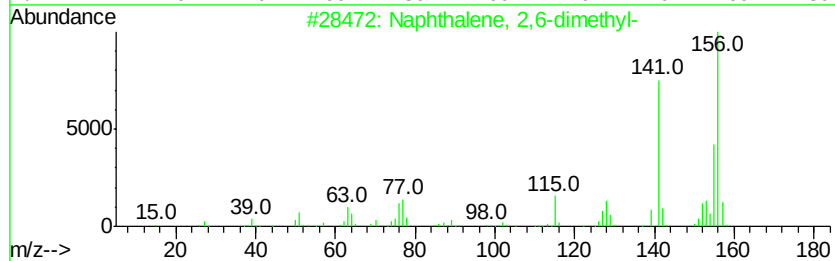
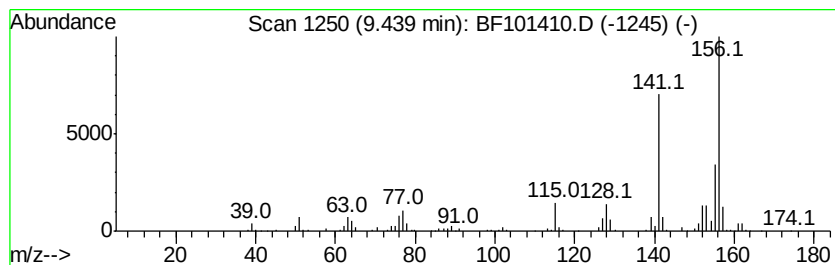
Instrument :  
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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121417.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 1 Naphthalene, 2,6-dimethyl- Concentration Rank 7

| R.T. | EstConc | Area   | Relative to ISTD           |     | R.T.    |             |      |
|------|---------|--------|----------------------------|-----|---------|-------------|------|
| 9.44 | 8.61 ng | 579589 | Acenaphthene-d10           |     | 9.85    |             |      |
| Hit# | of      | 5      | Tentative ID               | MW  | MolForm | CAS#        | Qual |
| 1    |         |        | Naphthalene, 2,6-dimethyl- | 156 | C12H12  | 000581-42-0 | 98   |
| 2    |         |        | Naphthalene, 1,6-dimethyl- | 156 | C12H12  | 000575-43-9 | 97   |
| 3    |         |        | Naphthalene, 1,7-dimethyl- | 156 | C12H12  | 000575-37-1 | 97   |
| 4    |         |        | Naphthalene, 2,7-dimethyl- | 156 | C12H12  | 000582-16-1 | 97   |
| 5    |         |        | Naphthalene, 2,3-dimethyl- | 156 | C12H12  | 000581-40-8 | 96   |



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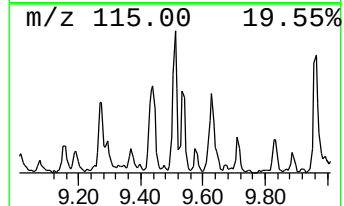
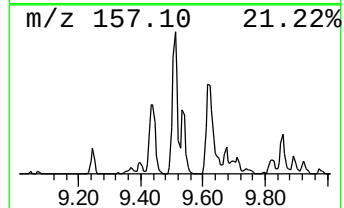
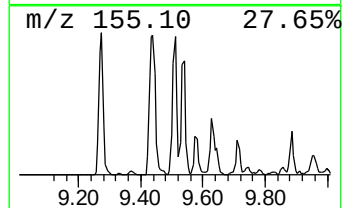
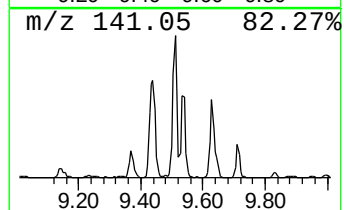
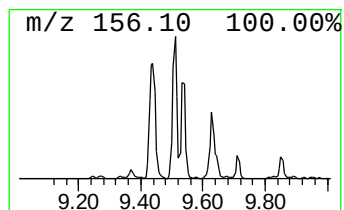
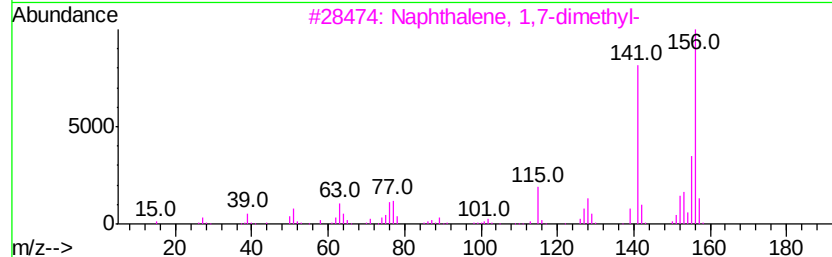
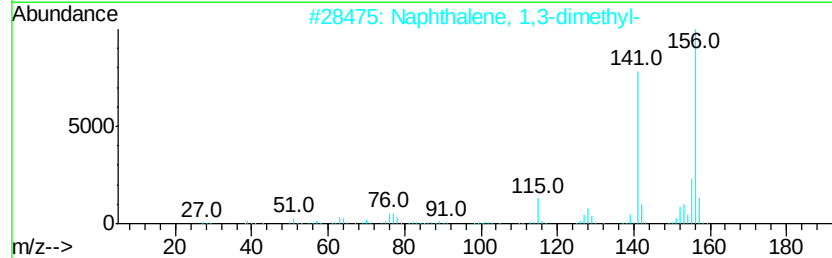
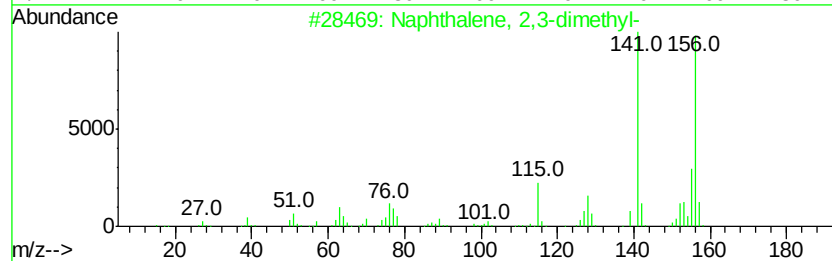
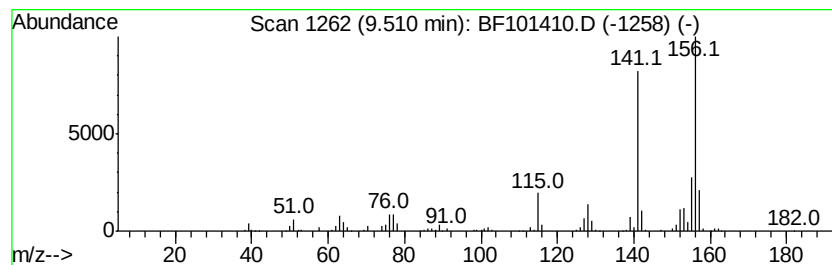
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TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 Naphthalene, 2,3-dimethyl- Concentration Rank 8

| R.T. | EstConc | Area   | Relative to ISTD | R.T. |
|------|---------|--------|------------------|------|
| 9.51 | 7.95 ng | 535029 | Acenaphthene-d10 | 9.85 |

| Hit# | of | 5 | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|---|----------------------------|-----|---------|-------------|------|
| 1    |    |   | Naphthalene, 2,3-dimethyl- | 156 | C12H12  | 000581-40-8 | 97   |
| 2    |    |   | Naphthalene, 1,3-dimethyl- | 156 | C12H12  | 000575-41-7 | 96   |
| 3    |    |   | Naphthalene, 1,7-dimethyl- | 156 | C12H12  | 000575-37-1 | 96   |
| 4    |    |   | Naphthalene, 1,6-dimethyl- | 156 | C12H12  | 000575-43-9 | 96   |
| 5    |    |   | Naphthalene, 1,4-dimethyl- | 156 | C12H12  | 000571-58-4 | 96   |



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Operator : SJ/JU  
Sample : I6844-01 100X  
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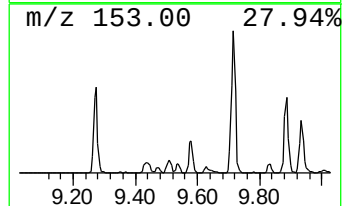
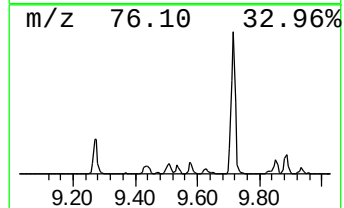
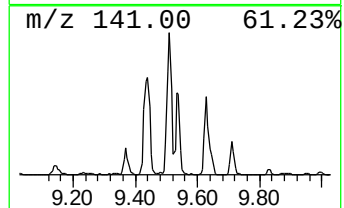
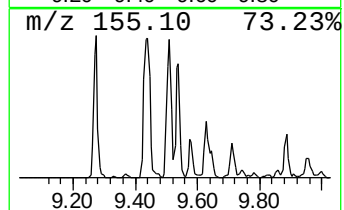
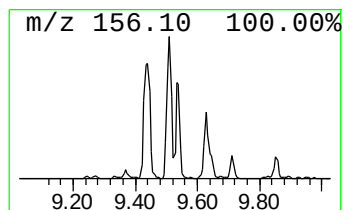
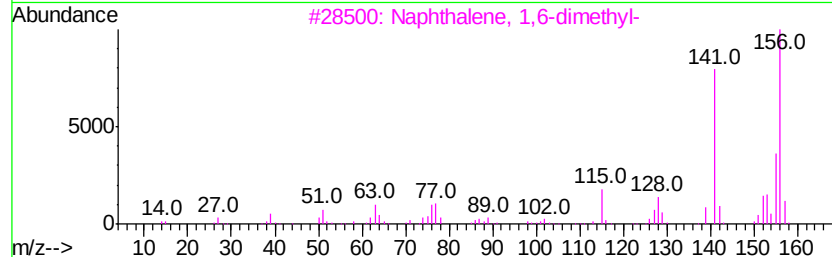
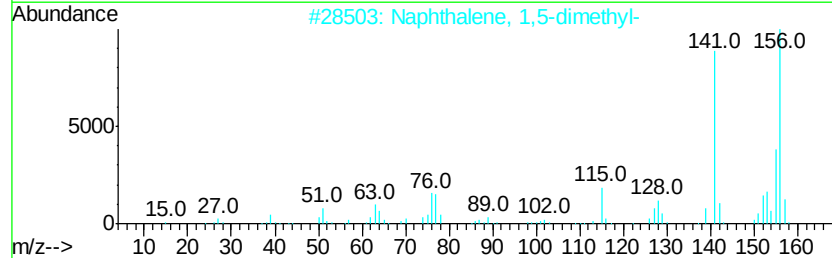
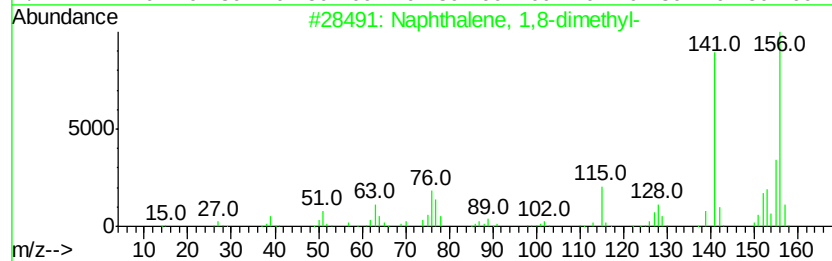
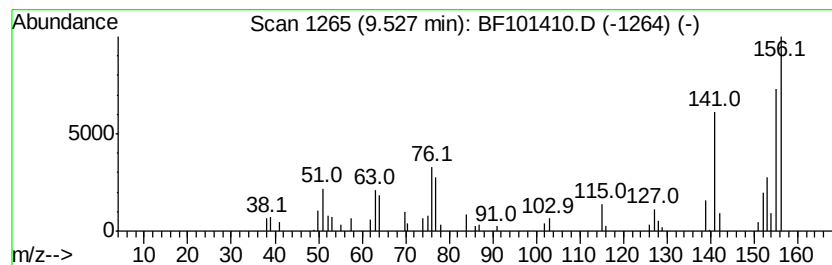
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 3 Naphthalene, 1,8-dimethyl- Concentration Rank 19

| R.T.    | EstConc | Area                       | Relative to ISTD | R.T.           |
|---------|---------|----------------------------|------------------|----------------|
| 9.53    | 4.99 ng | 335796                     | Acenaphthene-d10 | 9.85           |
| Hit# of | 5       | Tentative ID               | MW MolForm       | CAS# Qual      |
| 1       |         | Naphthalene, 1,8-dimethyl- | 156 C12H12       | 000569-41-5 98 |
| 2       |         | Naphthalene, 1,5-dimethyl- | 156 C12H12       | 000571-61-9 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, 2,6-dimethyl- | 156 C12H12       | 000581-42-0 97 |





Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF121417\  
Data File : BF101410.D  
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Operator : SJ/JU  
Sample : I6844-01 100X  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

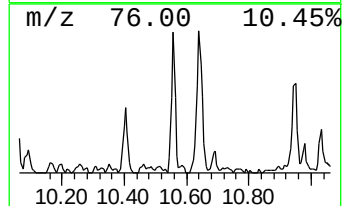
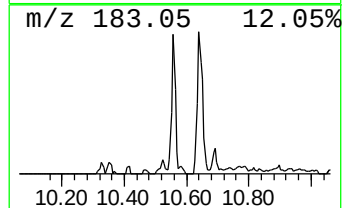
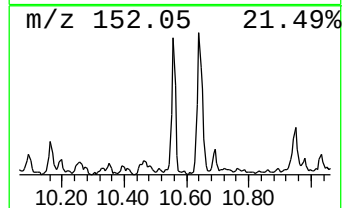
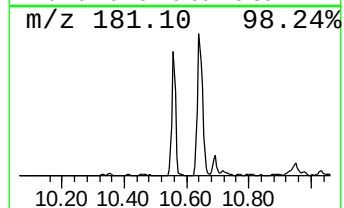
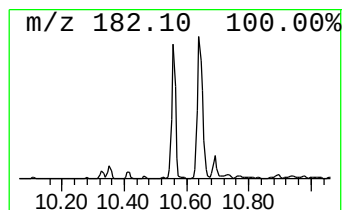
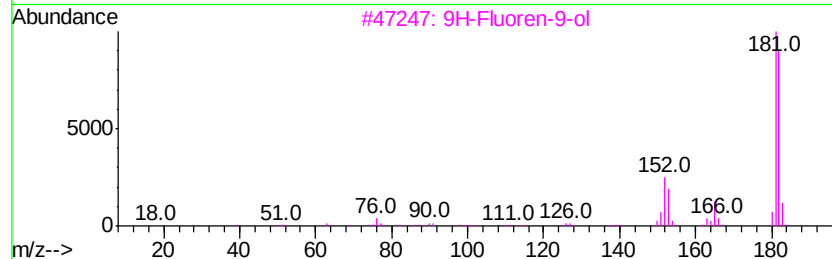
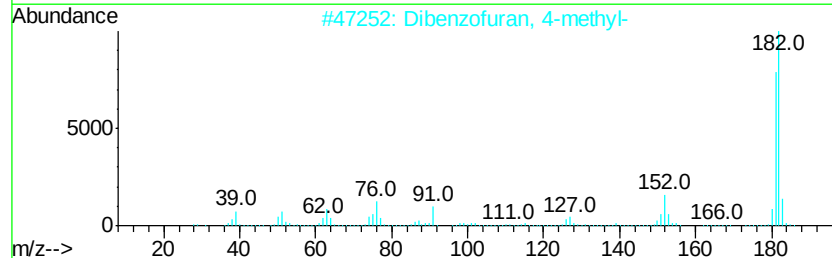
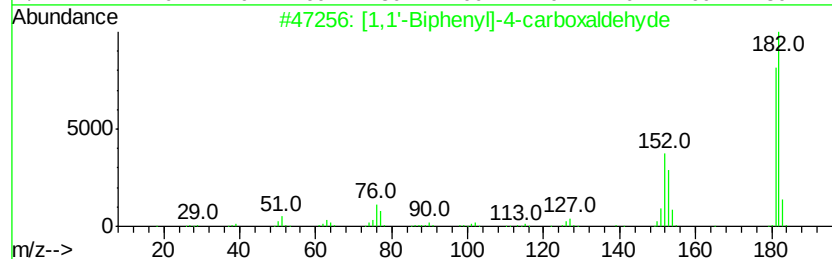
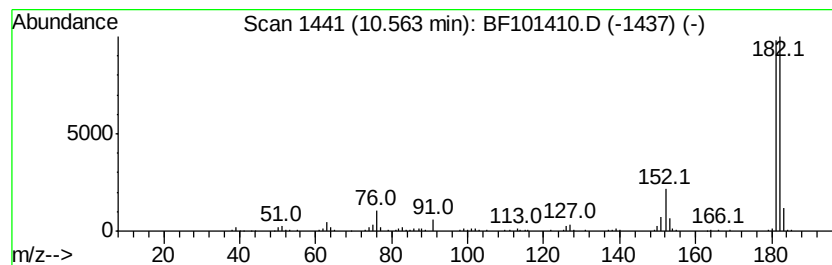
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ClientSampleId :  
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 4 [1,1'-Biphenyl]-4-carboxald... Concentration Rank 11

| R.T.      | EstConc                          | Area   | Relative to ISTD |              | R.T. |
|-----------|----------------------------------|--------|------------------|--------------|------|
| 10.56     | 7.25 ng                          | 487604 | Acenaphthene-d10 |              | 9.85 |
| Hit# of 5 | Tentative ID                     | MW     | MolForm          | CAS#         | Qual |
| 1         | [1,1'-Biphenyl]-4-carboxaldehyde | 182    | C13H10O          | 003218-36-8  | 91   |
| 2         | Dibenzofuran, 4-methyl-          | 182    | C13H10O          | 007320-53-8  | 90   |
| 3         | 9H-Fluoren-9-ol                  | 182    | C13H10O          | 001689-64-1  | 83   |
| 4         | Norharmane, N-methyl-            | 182    | C12H10N2         | 1000374-78-6 | 72   |
| 5         | 2-Hydroxyfluorene                | 182    | C13H10O          | 002443-58-5  | 68   |





Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF121417\  
Data File : BF101410.D  
Acq On : 14 Dec 2017 22:57  
Operator : SJ/JU  
Sample : I6844-01 100X  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
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ClientSampleId :  
WC-9974103-01

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

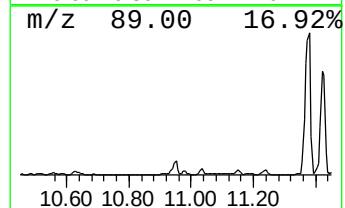
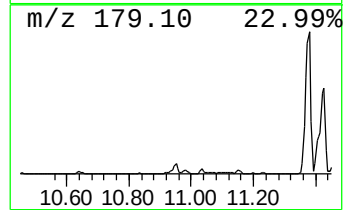
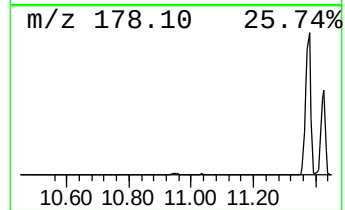
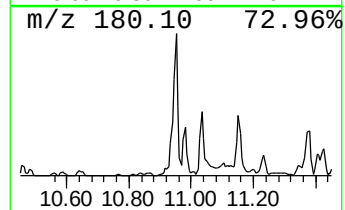
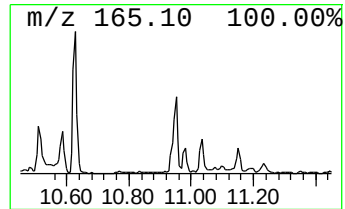
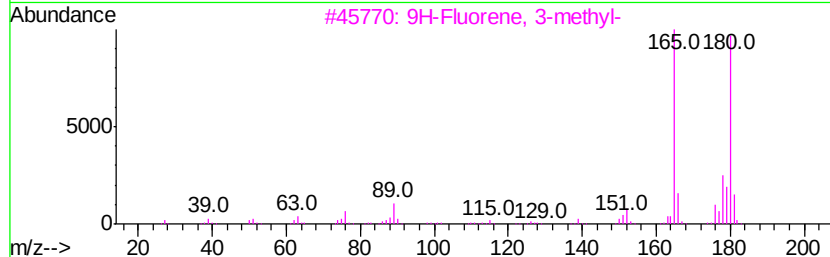
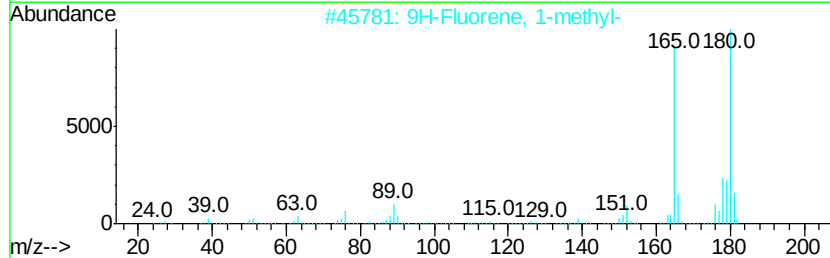
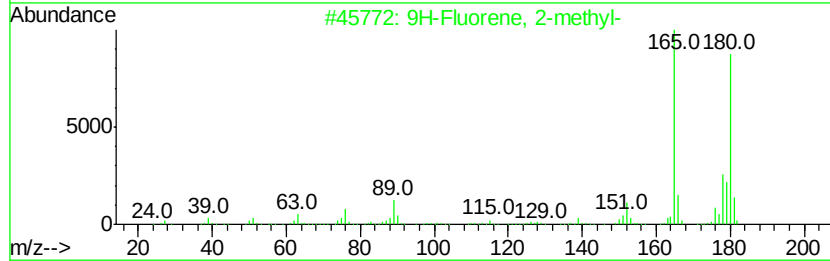
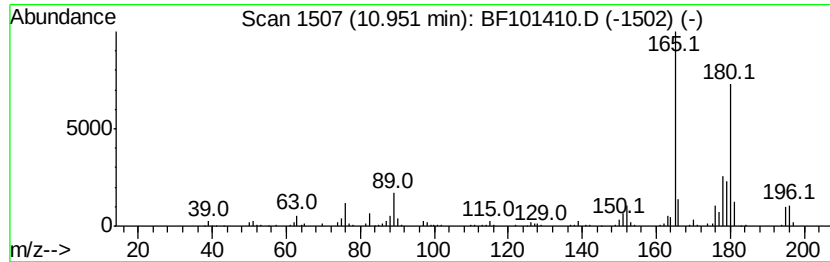
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TIC Integration Parameters: LSCINT.P

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Peak Number 6 9H-Fluorene, 2-methyl- Concentration Rank 18

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 10.95 | 5.71 ng | 433189 | Phenanthrene-d10 | 11.35 |

| Hit# | of | Tentative ID           | MW  | MolForm | CAS#        | Qual |
|------|----|------------------------|-----|---------|-------------|------|
| 1    | 5  | 9H-Fluorene, 2-methyl- | 180 | C14H12  | 001430-97-3 | 96   |
| 2    |    | 9H-Fluorene, 1-methyl- | 180 | C14H12  | 001730-37-6 | 94   |
| 3    |    | 9H-Fluorene, 3-methyl- | 180 | C14H12  | 002523-39-9 | 93   |
| 4    |    | 9H-Fluorene, 4-methyl- | 180 | C14H12  | 001556-99-6 | 89   |
| 5    |    | 9H-Fluorene, 9-methyl- | 180 | C14H12  | 002523-37-7 | 76   |



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Sample : I6844-01 100X  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
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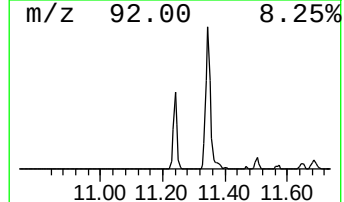
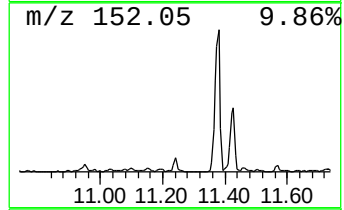
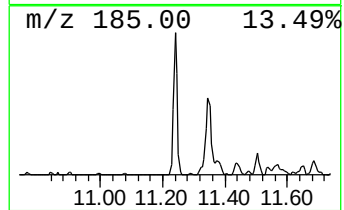
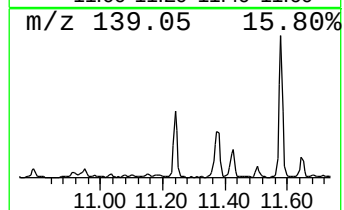
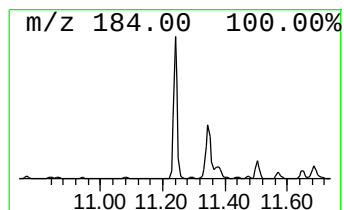
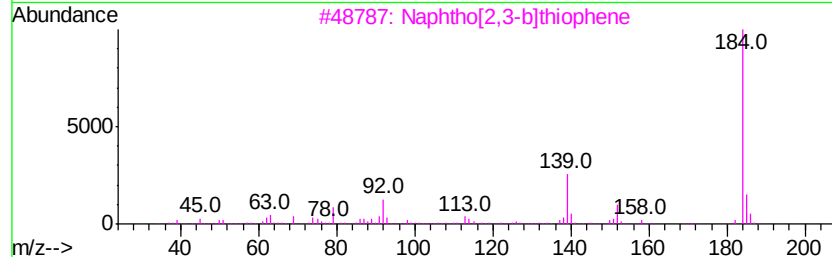
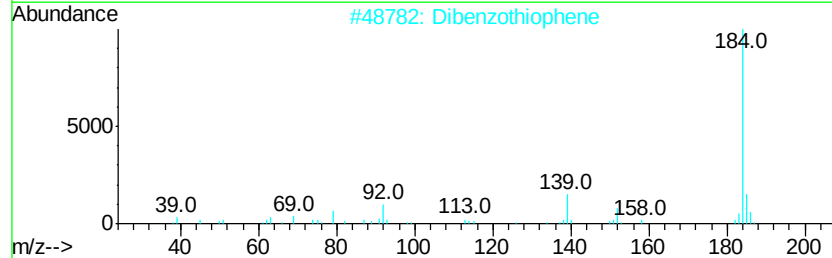
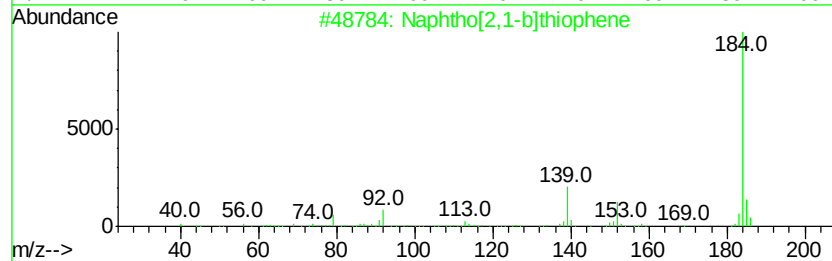
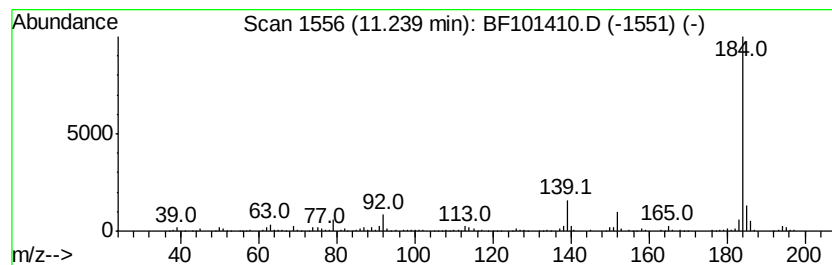
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TIC Integration Parameters: LSCINT.P

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Peak Number 7 Naphtho[2,1-b]thiophene Concentration Rank 9

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 11.24 | 7.32 ng | 555410 | Phenanthrene-d10 | 11.35 |

| Hit# | of | Tentative ID                      | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------------------|-----|---------|-------------|------|
| 1    | 5  | Naphtho[2,1-b]thiophene           | 184 | C12H8S  | 000233-02-3 | 97   |
| 2    |    | Dibenzothiophene                  | 184 | C12H8S  | 000132-65-0 | 96   |
| 3    |    | Naphtho[2,3-b]thiophene           | 184 | C12H8S  | 000268-77-9 | 94   |
| 4    |    | Azuleno(2,1-b)thiophene           | 184 | C12H8S  | 000248-13-5 | 91   |
| 5    |    | Naphthalene, 2-ethenyl-6-methoxy- | 184 | C13H12O | 063444-51-9 | 56   |



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Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
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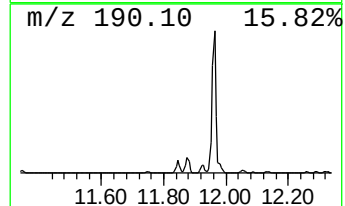
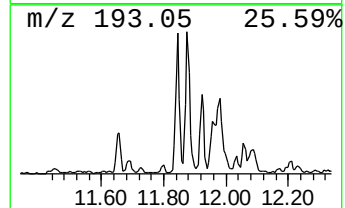
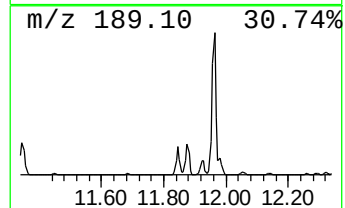
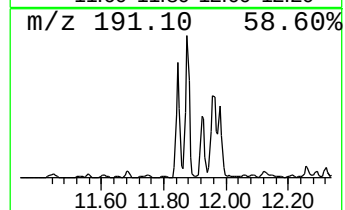
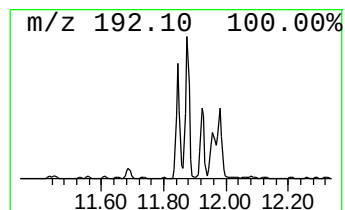
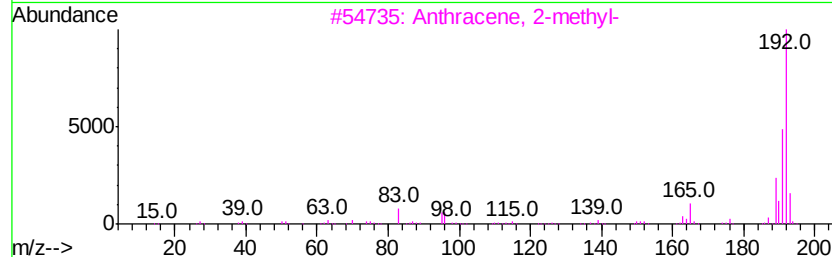
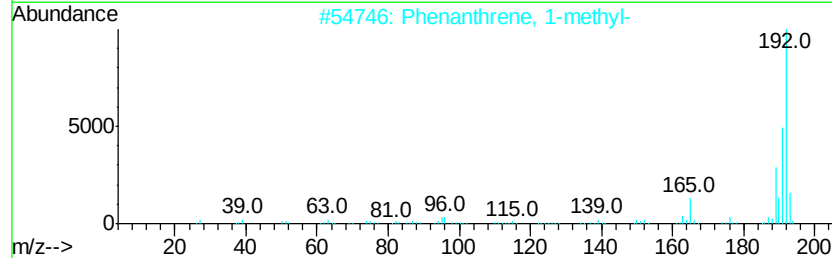
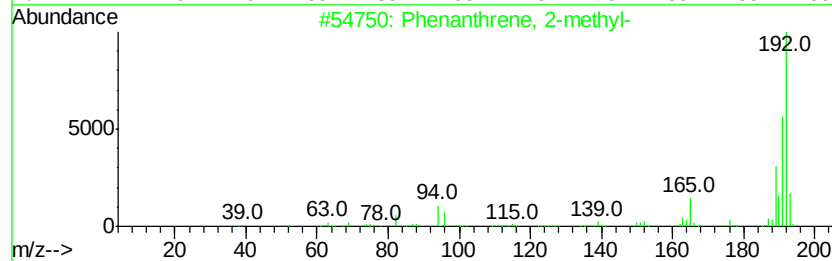
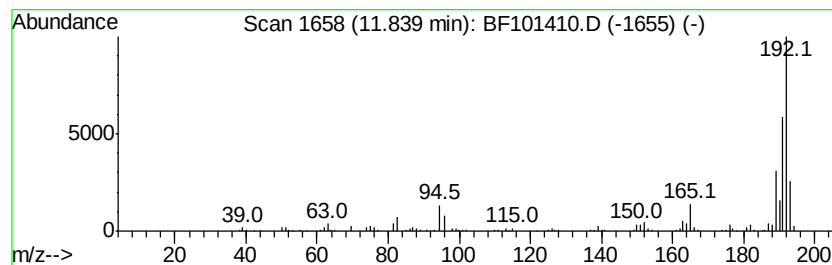
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Peak Number 8 Phenanthrene, 2-methyl- Concentration Rank 6

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 11.84 | 9.01 ng | 684004 | Phenanthrene-d10 | 11.35 |

| Hit# of 5 | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|-----------|-------------------------|-----|---------|-------------|------|
| 1         | Phenanthrene, 2-methyl- | 192 | C15H12  | 002531-84-2 | 98   |
| 2         | Phenanthrene, 1-methyl- | 192 | C15H12  | 000832-69-9 | 97   |
| 3         | Anthracene, 2-methyl-   | 192 | C15H12  | 000613-12-7 | 96   |
| 4         | Anthracene, 1-methyl-   | 192 | C15H12  | 000610-48-0 | 94   |
| 5         | Anthracene, 9-methyl-   | 192 | C15H12  | 000779-02-2 | 94   |



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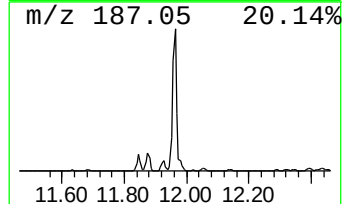
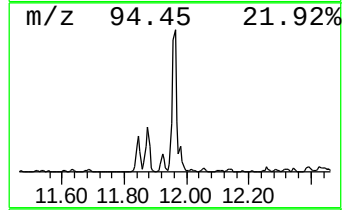
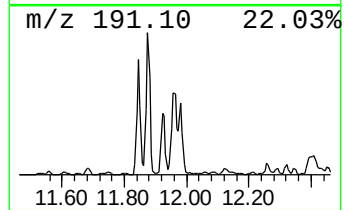
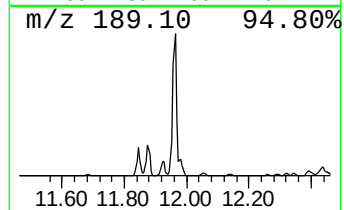
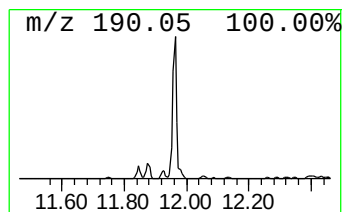
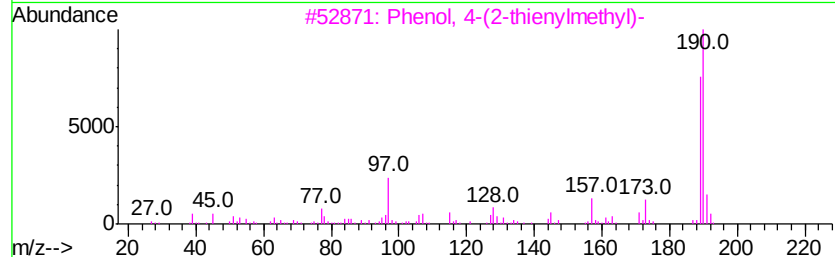
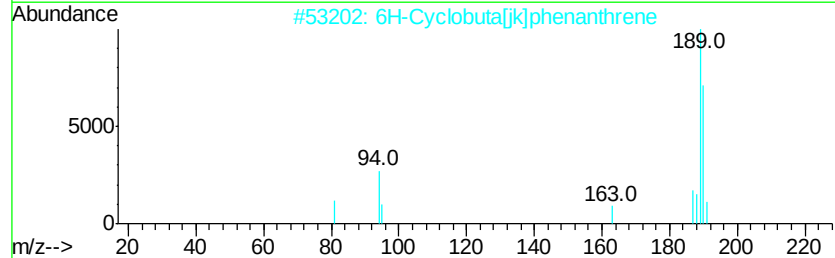
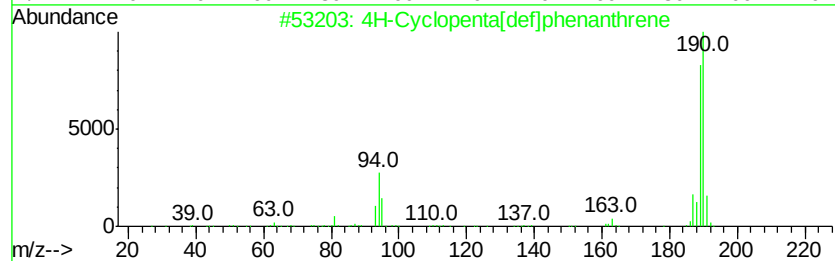
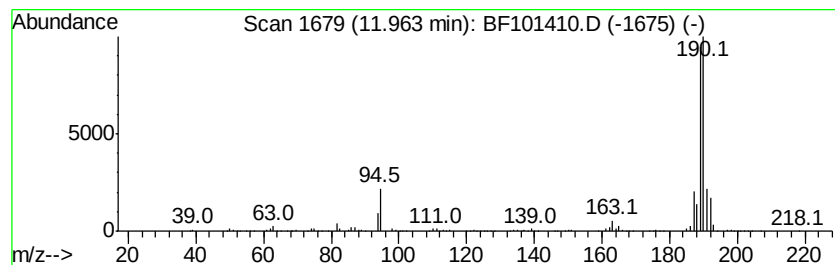
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ClientSampleId :  
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 11 4H-Cyclopenta[def]phenanthrene Concentration Rank 1

| R.T.      | EstConc                             | Area    | Relative to ISTD | R.T.        |      |
|-----------|-------------------------------------|---------|------------------|-------------|------|
| 11.96     | 19.06 ng                            | 1446440 | Phenanthrene-d10 | 11.35       |      |
| Hit# of 5 | Tentative ID                        | MW      | MolForm          | CAS#        | Qual |
| 1         | 4H-Cyclopenta[def]phenanthrene      | 190     | C15H10           | 000203-64-5 | 97   |
| 2         | 6H-Cyclobuta[ik]phenanthrene        | 190     | C15H10           | 083469-43-6 | 64   |
| 3         | Phenol, 4-(2-thienylmethyl)-        | 190     | C11H10OS         | 091680-55-6 | 59   |
| 4         | 2,3,5,6-Tetramethylterephthalald... | 190     | C12H14O2         | 007072-01-7 | 50   |
| 5         | 2,2'-Bis(4,5-dimethylimidazole)     | 190     | C10H14N4         | 069286-06-2 | 45   |



Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF121417\  
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Operator : SJ/JU  
Sample : I6844-01 100X  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

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

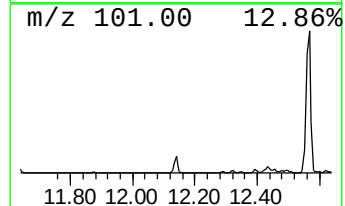
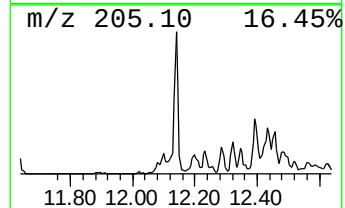
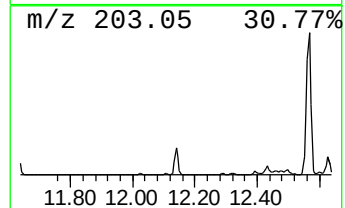
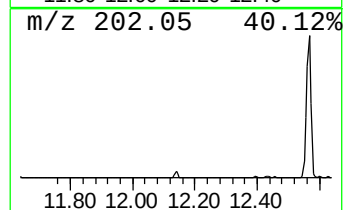
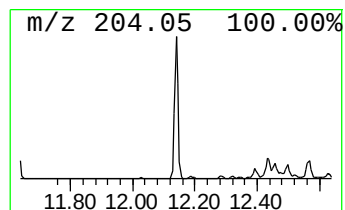
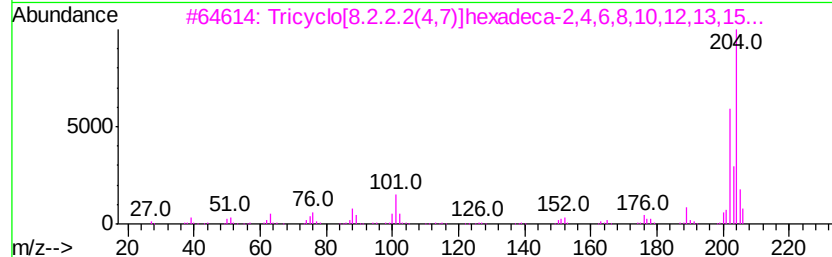
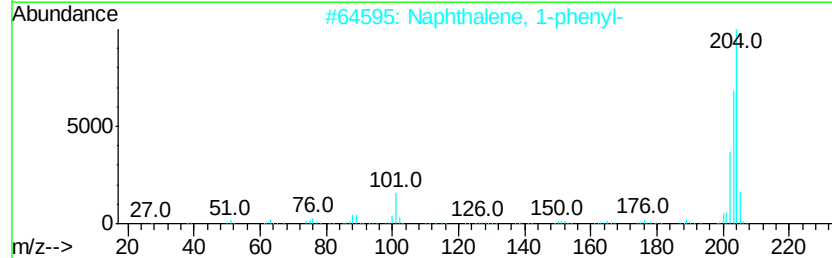
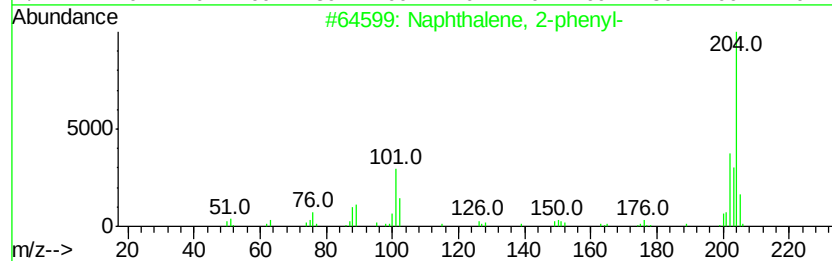
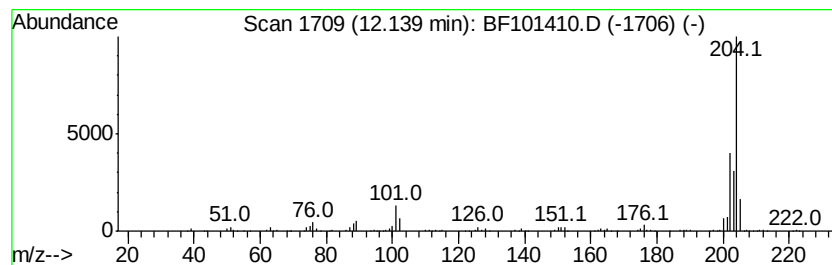
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 12 Naphthalene, 1-phenyl- Concentration Rank 14

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 12.14 | 6.24 ng | 473256 | Phenanthrene-d10 | 11.35 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#        | Qual |
|------|----|-------------------------------------|-----|-----------|-------------|------|
| 1    | 5  | Naphthalene, 2-phenyl-              | 204 | C16H12    | 000612-94-2 | 93   |
| 2    |    | Naphthalene, 1-phenyl-              | 204 | C16H12    | 000605-02-7 | 83   |
| 3    |    | Tricyclo[8.2.2.2(4,7)]hexadeca-2... | 204 | C16H12    | 006572-60-7 | 64   |
| 4    |    | 9,10-Bis(bromomethyl)anthracene     | 362 | C16H12Br2 | 034373-96-1 | 64   |
| 5    |    | 5,16[1',2']:8,13[1'',2'']-Dibenz... | 408 | C32H24    | 005672-97-9 | 50   |



Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF121417\  
Data File : BF101410.D  
Acq On : 14 Dec 2017 22:57  
Operator : SJ/JU  
Sample : I6844-01 100X  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

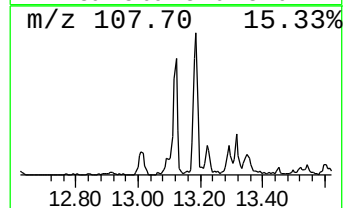
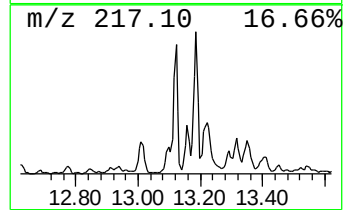
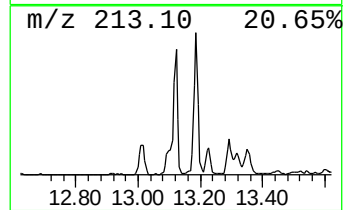
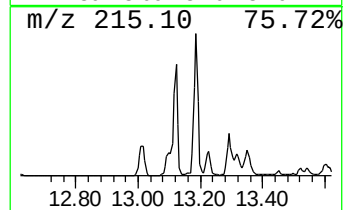
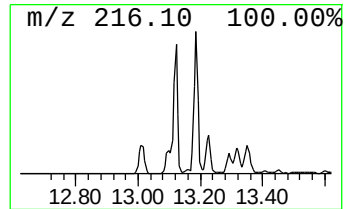
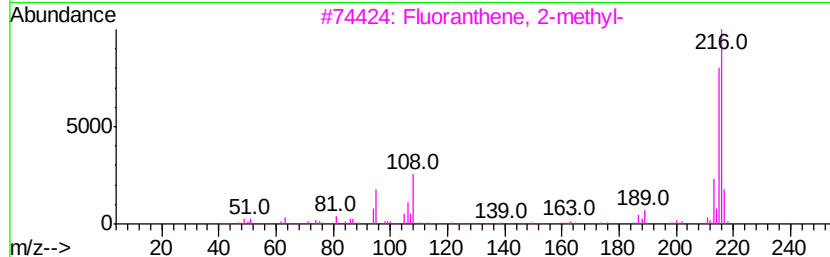
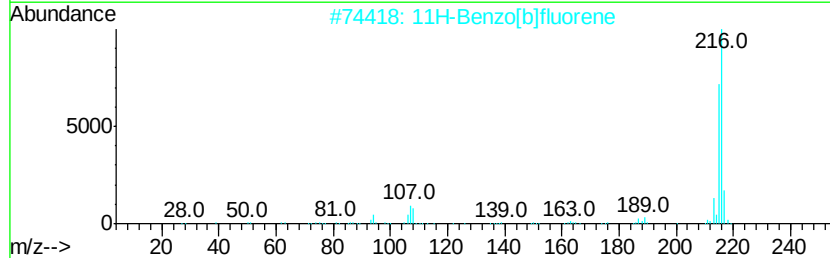
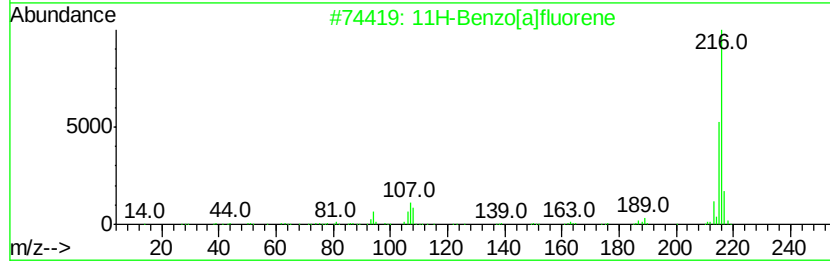
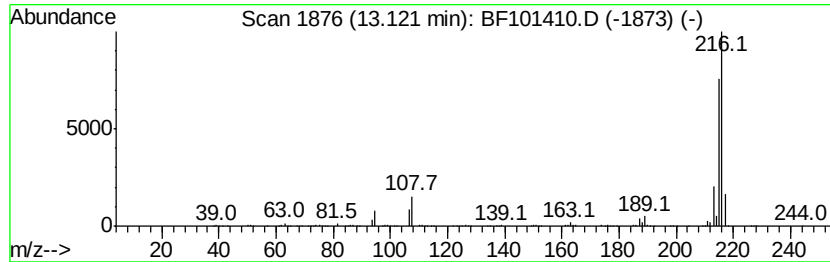
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 14 11H-Benzo[a]fluorene Concentration Rank 15

| R.T.      | EstConc                 | Area   | Relative to ISTD | R.T.        |      |
|-----------|-------------------------|--------|------------------|-------------|------|
| 13.12     | 5.97 ng                 | 897585 | Chrysene-d12     | 13.99       |      |
| Hit# of 5 | Tentative ID            | MW     | MolForm          | CAS#        | Qual |
| 1         | 11H-Benzo[a]fluorene    | 216    | C17H12           | 000238-84-6 | 97   |
| 2         | 11H-Benzo[b]fluorene    | 216    | C17H12           | 000243-17-4 | 96   |
| 3         | Fluoranthene, 2-methyl- | 216    | C17H12           | 033543-31-6 | 90   |
| 4         | Pyrene, 1-methyl-       | 216    | C17H12           | 002381-21-7 | 90   |
| 5         | 7H-Benzo[c]fluorene     | 216    | C17H12           | 000205-12-9 | 87   |



Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF121417\  
Data File : BF101410.D  
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Sample : I6844-01 100X  
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ALS Vial : 15 Sample Multiplier: 1

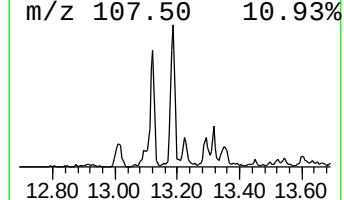
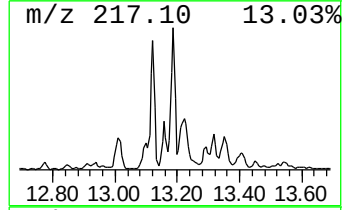
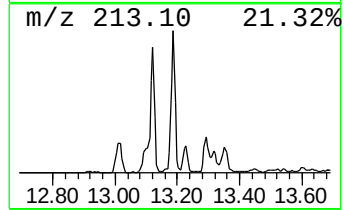
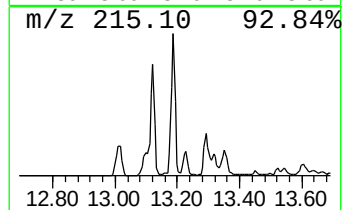
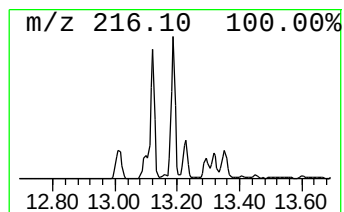
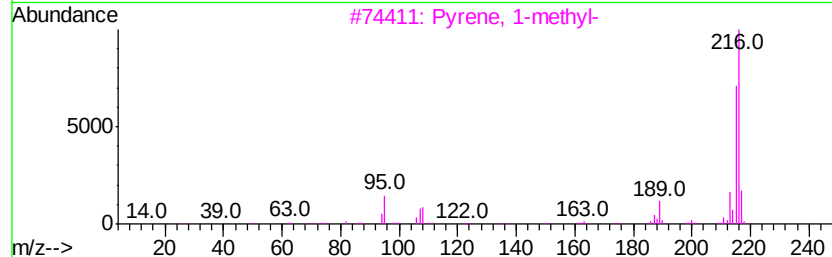
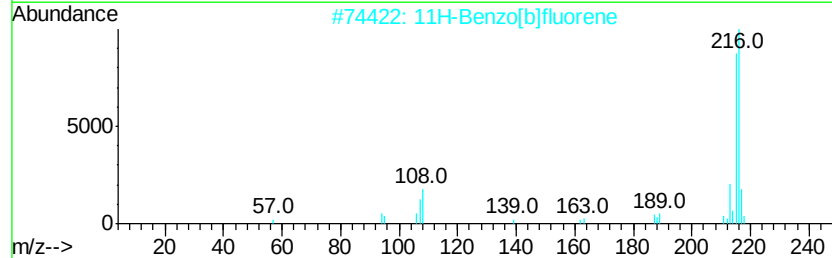
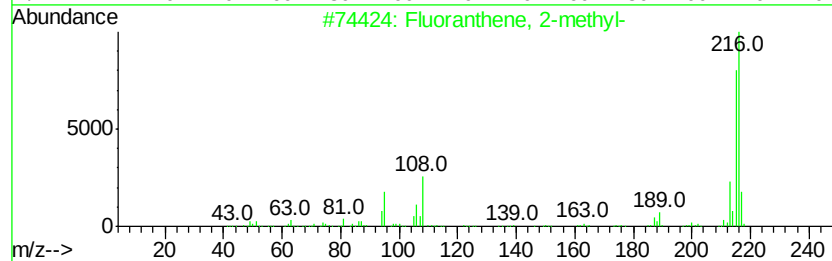
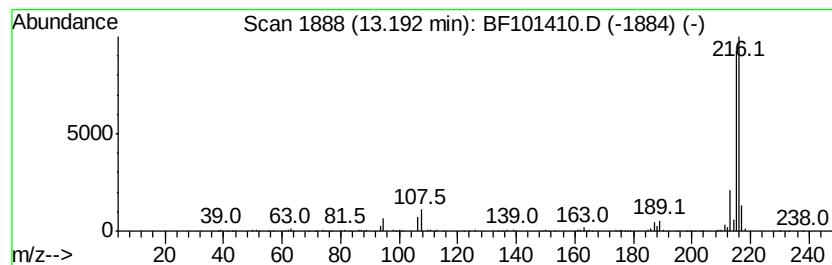
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ClientSampleId :  
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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121417.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 15 Fluoranthene, 2-methyl- Concentration Rank 13

| R.T.      | EstConc                 | Area   | Relative to ISTD |             | R.T.  |
|-----------|-------------------------|--------|------------------|-------------|-------|
| 13.19     | 6.59 ng                 | 990751 | Chrysene-d12     |             | 13.99 |
| Hit# of 5 | Tentative ID            | MW     | MolForm          | CAS#        | Qual  |
| 1         | Fluoranthene, 2-methyl- | 216    | C17H12           | 033543-31-6 | 95    |
| 2         | 11H-Benzo[b]fluorene    | 216    | C17H12           | 000243-17-4 | 93    |
| 3         | Pyrene, 1-methyl-       | 216    | C17H12           | 002381-21-7 | 93    |
| 4         | 11H-Benzo[a]fluorene    | 216    | C17H12           | 000238-84-6 | 91    |
| 5         | 7H-Benzo[c]fluorene     | 216    | C17H12           | 000205-12-9 | 81    |





Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF121417\  
Data File : BF101410.D  
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Operator : SJ/JU  
Sample : I6844-01 100X  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

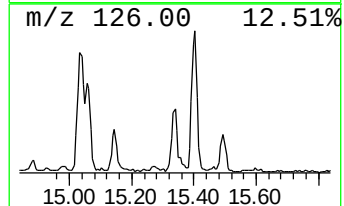
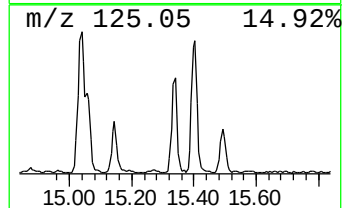
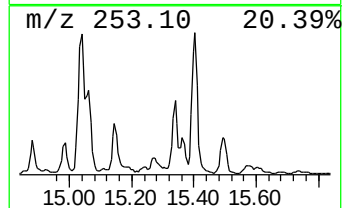
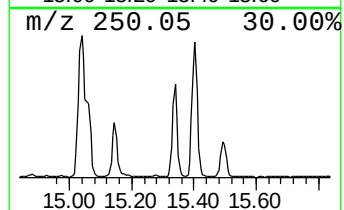
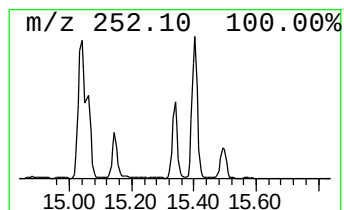
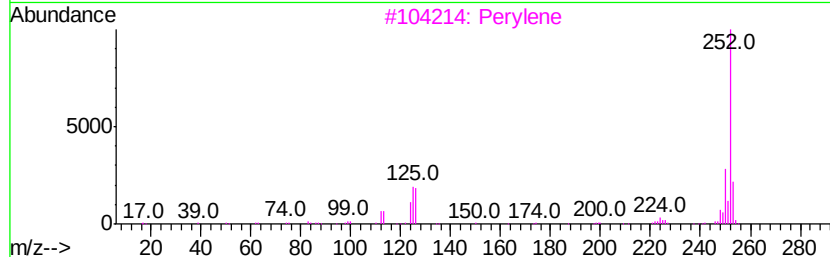
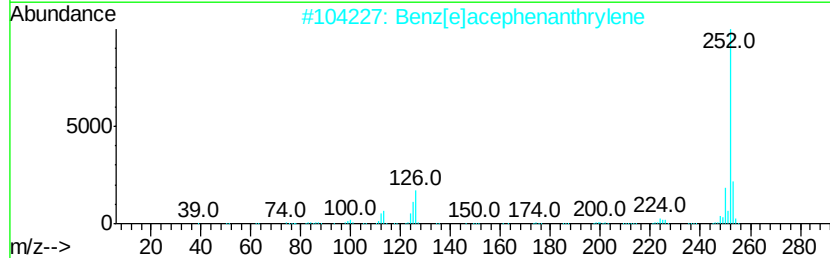
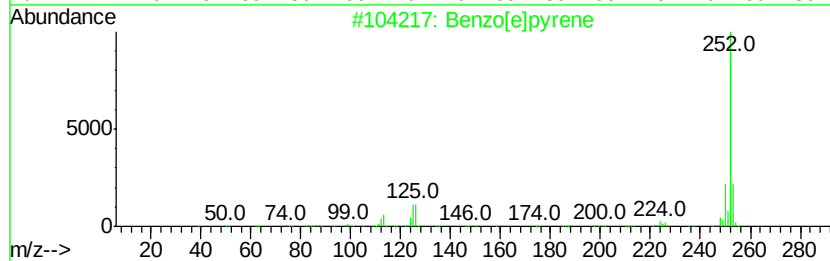
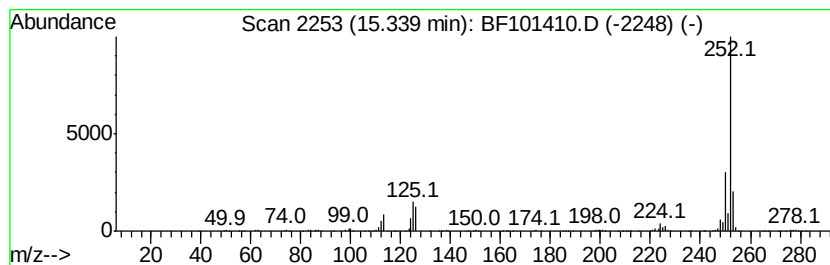
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 17 Benzo[e]pyrene Concentration Rank 3

| R.T.    | EstConc  | Area                     | Relative to ISTD | R.T.           |
|---------|----------|--------------------------|------------------|----------------|
| 15.34   | 13.21 ng | 544993                   | Perylene-d12     | 15.46          |
| Hit# of | 5        | Tentative ID             | MW MolForm       | CAS# Qual      |
| 1       |          | Benzo[e]pyrene           | 252 C20H12       | 000192-97-2 99 |
| 2       |          | Benz[e]acephenanthrylene | 252 C20H12       | 000205-99-2 98 |
| 3       |          | Perylene                 | 252 C20H12       | 000198-55-0 97 |
| 4       |          | Benzo[k]fluoranthene     | 252 C20H12       | 000207-08-9 94 |
| 5       |          | Benzo[a]pyrene           | 252 C20H12       | 000050-32-8 93 |



Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF121417\  
Data File : BF101410.D  
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Operator : SJ/JU  
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ALS Vial : 15 Sample Multiplier: 1

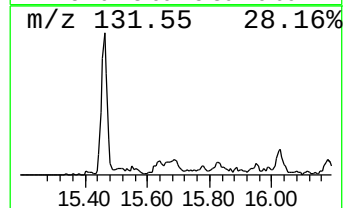
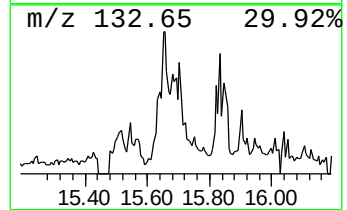
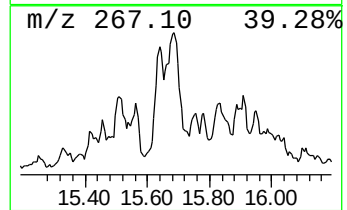
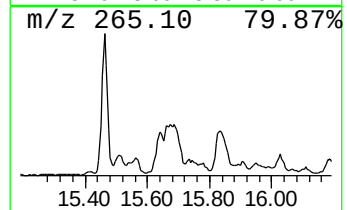
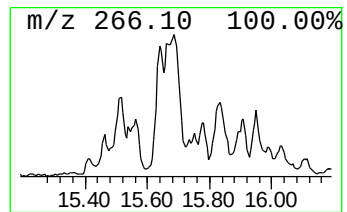
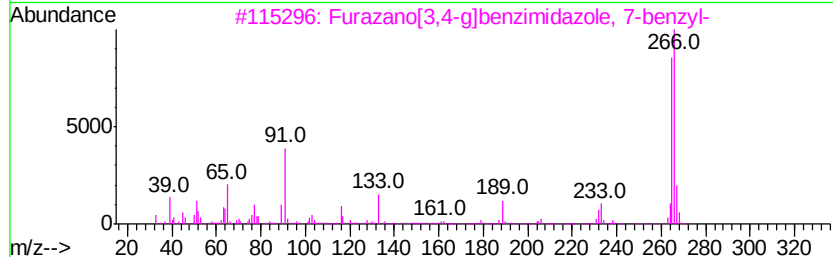
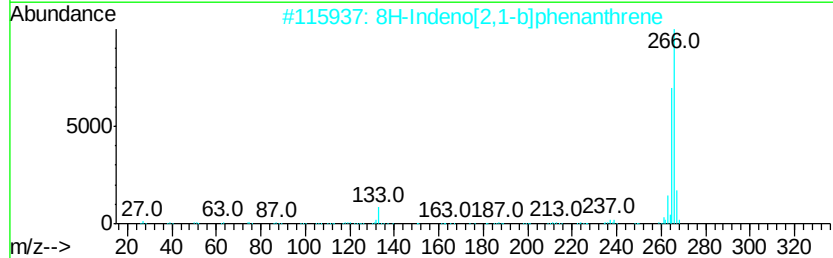
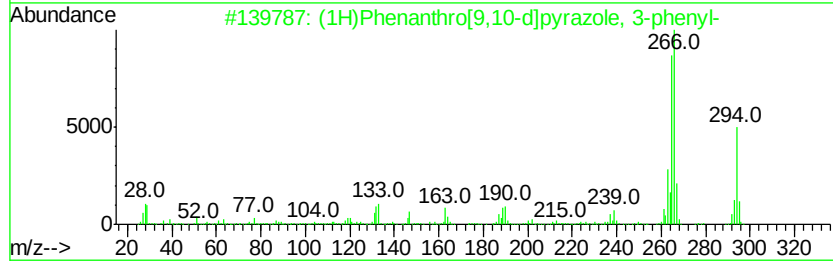
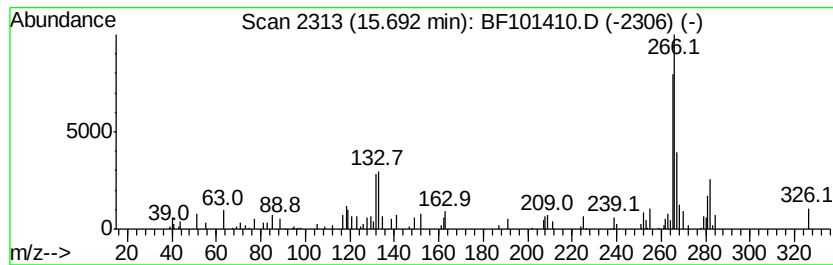
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 18 (1H)Phenanthro[9,10-d]pyraz... Concentration Rank 17

| R.T.    | EstConc                             | Area         | Relative to ISTD | R.T.         |      |      |
|---------|-------------------------------------|--------------|------------------|--------------|------|------|
| 15.69   | 5.79 ng                             | 238865       | Perylene-d12     | 15.46        |      |      |
| Hit# of | 5                                   | Tentative ID | MW               | MolForm      | CAS# | Qual |
| 1       | (1H)Phenanthro[9,10-d]pyrazole, ... | 294          | C21H14N2         | 037944-54-0  | 53   |      |
| 2       | 8H-Indeno[2,1-b]phenanthrene        | 266          | C21H14           | 000241-28-1  | 53   |      |
| 3       | Furazano[3,4-a]benzimidazole, 7-... | 266          | C14H10N4S        | 129485-61-6  | 50   |      |
| 4       | 13H-Dibenzo[a,h]fluorene            | 266          | C21H14           | 000239-85-0  | 50   |      |
| 5       | 2-Amino-3-cyano-5-[2-[3,4-methyl... | 266          | C14H10N4O2       | 1000252-72-1 | 47   |      |



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Operator : SJ/JU  
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Misc :  
ALS Vial : 15 Sample Multiplier: 1

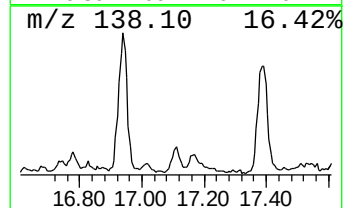
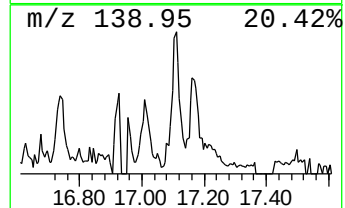
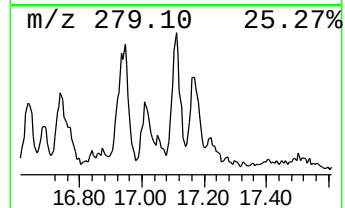
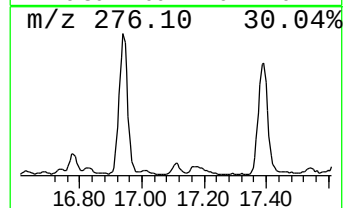
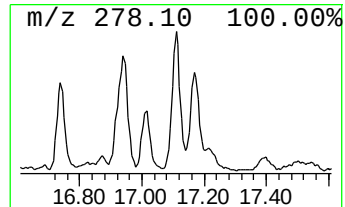
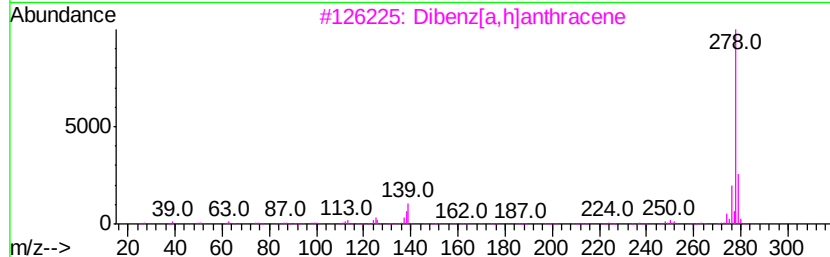
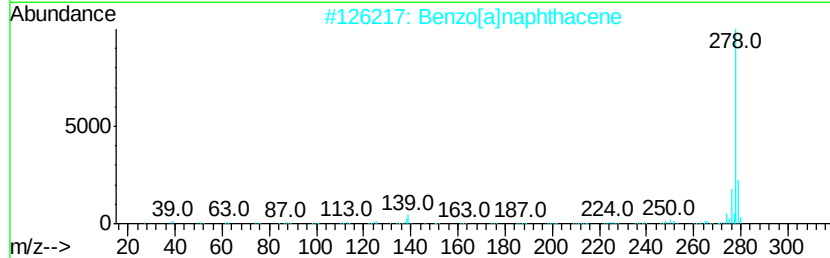
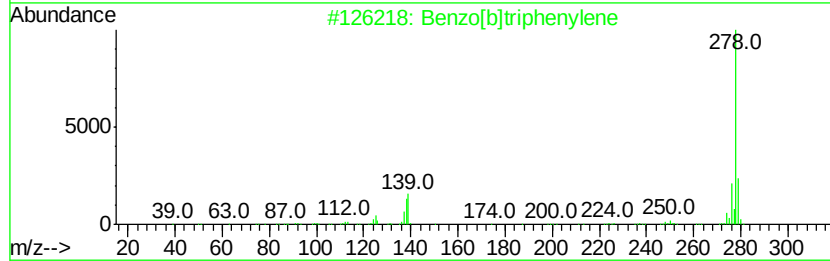
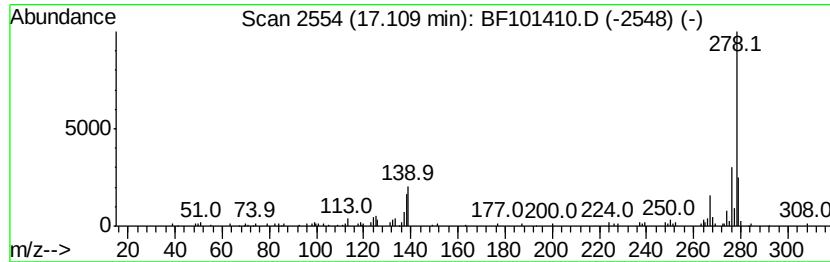
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 19 Benzo[b]triphenylene Concentration Rank 20

| R.T.      | EstConc                | Area   | Relative to ISTD | R.T.        |      |
|-----------|------------------------|--------|------------------|-------------|------|
| 17.11     | 4.79 ng                | 197686 | Perylene-d12     | 15.46       |      |
| Hit# of 5 | Tentative ID           | MW     | MolForm          | CAS#        | Qual |
| 1         | Benzo[bltriphenylene   | 278    | C22H14           | 000215-58-7 | 98   |
| 2         | Benzo[alnaphthacene    | 278    | C22H14           | 000226-88-0 | 98   |
| 3         | Dibenz[la,hlanthracene | 278    | C22H14           | 000053-70-3 | 98   |
| 4         | Benzo[blchrysene       | 278    | C22H14           | 000214-17-5 | 96   |
| 5         | Picene                 | 278    | C22H14           | 000213-46-7 | 96   |



Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF121417\  
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Operator : SJ/JU  
Sample : I6844-01 100X  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
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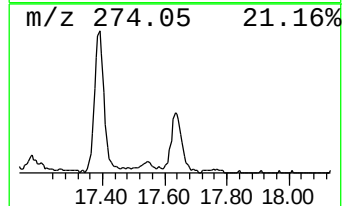
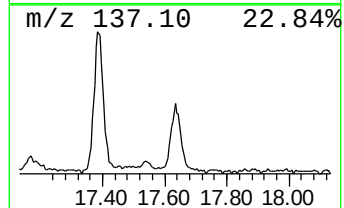
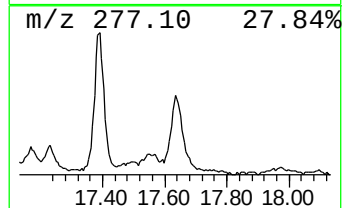
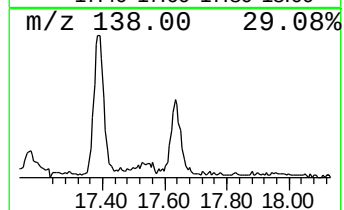
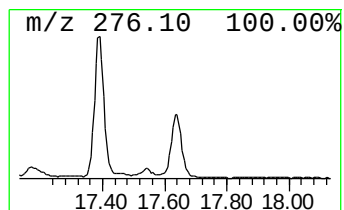
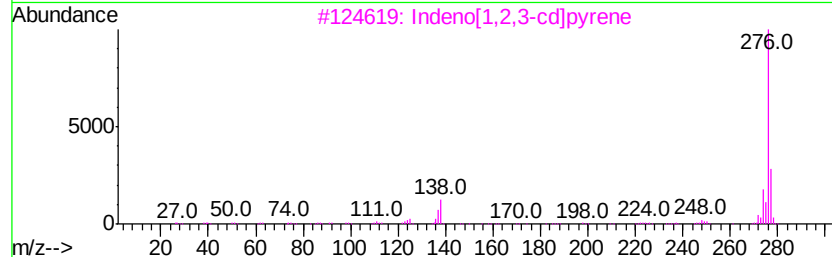
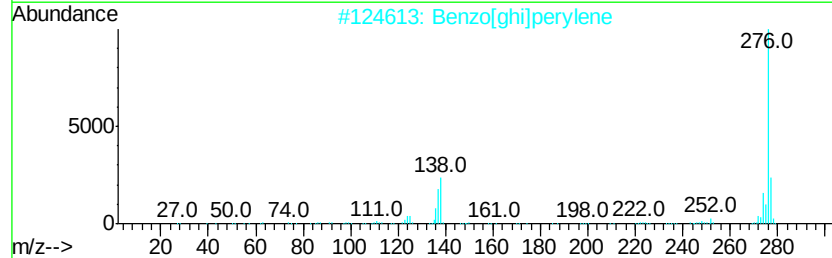
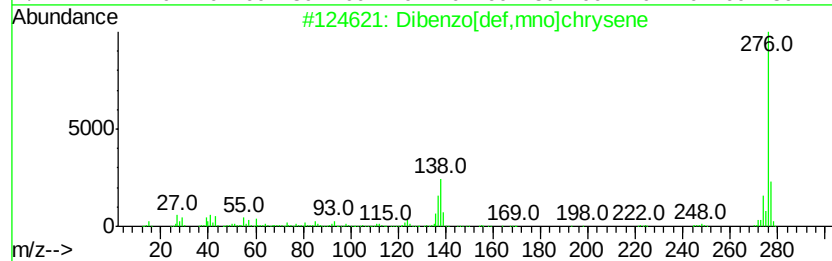
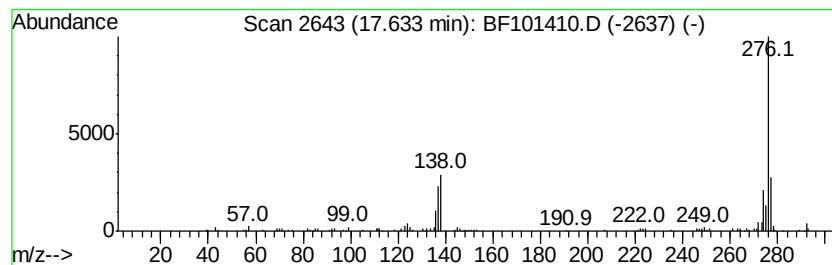
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 20 Dibenzo[def,mno]chrysene Concentration Rank 10

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 17.63 | 7.28 ng | 300489 | Perylene-d12     | 15.46 |

| Hit# | of | Tentative ID                        | MW  | MolForm    | CAS#        | Qual |
|------|----|-------------------------------------|-----|------------|-------------|------|
| 1    | 5  | Dibenzo[def,mno]chrysene            | 276 | C22H12     | 000191-26-4 | 97   |
| 2    |    | Benzo[ghi]perylene                  | 276 | C22H12     | 000191-24-2 | 93   |
| 3    |    | Indeno[1,2,3-cd]pyrene              | 276 | C22H12     | 000193-39-5 | 90   |
| 4    |    | Indeno[1,2,3-cd]fluoranthene        | 276 | C22H12     | 000193-43-1 | 83   |
| 5    |    | Naphthalen-1-yl-(3-nitro-benzyl)... | 276 | C17H12N2O2 | 200421-53-0 | 43   |



Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA\_F\DATA\BF121417\  
 Data File : BF101410.D  
 Acq On : 14 Dec 2017 22:57  
 Operator : SJ/JU  
 Sample : I6844-01 100X  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 WC-9974103-01

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF121417.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
|                      |       |         |       |          | #                     | RT    | Resp    | Conc |
| Naphthalene, 2,6-... | 9.44  | 8.6     | ng    | 579589   | 3                     | 9.85  | 1345710 | 20.0 |
| Naphthalene, 2,3-... | 9.51  | 8.0     | ng    | 535029   | 3                     | 9.85  | 1345710 | 20.0 |
| Naphthalene, 1,8-... | 9.53  | 5.0     | ng    | 335796   | 3                     | 9.85  | 1345710 | 20.0 |
| [1,1'-Biphenyl]-4... | 10.56 | 7.3     | ng    | 487604   | 3                     | 9.85  | 1345710 | 20.0 |
| 9H-Fluorene, 2-me... | 10.95 | 5.7     | ng    | 433189   | 4                     | 11.35 | 1517820 | 20.0 |
| Naphtho[2,1-b]thi... | 11.24 | 7.3     | ng    | 555410   | 4                     | 11.35 | 1517820 | 20.0 |
| Phenanthrene, 2-m... | 11.84 | 9.0     | ng    | 684004   | 4                     | 11.35 | 1517820 | 20.0 |
| 4H-Cyclopenta[def... | 11.96 | 19.1    | ng    | 1446440  | 4                     | 11.35 | 1517820 | 20.0 |
| Naphthalene, 1-ph... | 12.14 | 6.2     | ng    | 473256   | 4                     | 11.35 | 1517820 | 20.0 |
| 11H-Benzo[a]fluorene | 13.12 | 6.0     | ng    | 897585   | 5                     | 13.99 | 3007230 | 20.0 |
| Fluoranthene, 2-m... | 13.19 | 6.6     | ng    | 990751   | 5                     | 13.99 | 3007230 | 20.0 |
| Benzo[e]pyrene       | 15.34 | 13.2    | ng    | 544993   | 6                     | 15.46 | 825187  | 20.0 |
| (1H)Phenanthro[9,... | 15.69 | 5.8     | ng    | 238865   | 6                     | 15.46 | 825187  | 20.0 |
| Benzo[b]triphenylene | 17.11 | 4.8     | ng    | 197686   | 6                     | 15.46 | 825187  | 20.0 |
| Dibenzo[def,mno]c... | 17.63 | 7.3     | ng    | 300489   | 6                     | 15.46 | 825187  | 20.0 |