

Data Path : Z:\HPCHEM1\BNA F\DATA\BF093017\  
 Data File : BF098977.D  
 Acq On : 30 Sep 2017 21:58  
 Operator : SJ/JU  
 Sample : I5547-01 5X  
 Misc :  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CL-02-092917

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-BF092317.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 2.198       | 15            | 19          | 28           | rVB2     | 42234          | 72178         | 5.01%           | 0.348%        |
| 2         | 5.128       | 514           | 517         | 530          | rBV      | 60706          | 66428         | 4.61%           | 0.320%        |
| 3         | 5.528       | 581           | 585         | 597          | rBV      | 551672         | 477793        | 33.16%          | 2.301%        |
| 4         | 6.533       | 752           | 756         | 759          | rBV      | 548775         | 467337        | 32.43%          | 2.251%        |
| 5         | 6.557       | 759           | 760         | 767          | rVB      | 55131          | 40701         | 2.82%           | 0.196%        |
| 6         | 6.681       | 777           | 781         | 785          | rBV      | 624041         | 496799        | 34.48%          | 2.393%        |
| 7         | 6.916       | 817           | 821         | 824          | rBV      | 987865         | 767809        | 53.29%          | 3.698%        |
| 8         | 7.069       | 844           | 847         | 851          | rBV      | 506532         | 426199        | 29.58%          | 2.053%        |
| 9         | 7.475       | 912           | 916         | 923          | rBV      | 280373         | 263256        | 18.27%          | 1.268%        |
| 10        | 8.198       | 1035          | 1039        | 1042         | rBV      | 1183278        | 939865        | 65.23%          | 4.526%        |
| 11        | 8.910       | 1157          | 1160        | 1167         | rVB      | 81507          | 66396         | 4.61%           | 0.320%        |
| 12        | 9.010       | 1173          | 1177        | 1181         | rBV      | 96136          | 82192         | 5.70%           | 0.396%        |
| 13        | 9.269       | 1217          | 1221        | 1228         | rBV      | 653545         | 518571        | 35.99%          | 2.497%        |
| 14        | 9.539       | 1263          | 1267        | 1271         | rBV      | 59791          | 79845         | 5.54%           | 0.385%        |
| 15        | 9.610       | 1275          | 1279        | 1282         | rVV      | 112688         | 113347        | 7.87%           | 0.546%        |
| 16        | 9.639       | 1282          | 1284        | 1286         | rVV      | 62064          | 55785         | 3.87%           | 0.269%        |
| 17        | 9.663       | 1286          | 1288        | 1294         | rVV2     | 61320          | 64663         | 4.49%           | 0.311%        |
| 18        | 9.727       | 1296          | 1299        | 1304         | rVB      | 56958          | 59968         | 4.16%           | 0.289%        |
| 19        | 9.816       | 1310          | 1314        | 1319         | rBV2     | 138523         | 119042        | 8.26%           | 0.573%        |
| 20        | 9.957       | 1334          | 1338        | 1341         | rBV      | 866196         | 784290        | 54.43%          | 3.777%        |
| 21        | 9.986       | 1341          | 1343        | 1346         | rVB      | 174235         | 132837        | 9.22%           | 0.640%        |
| 22        | 10.157      | 1368          | 1372        | 1375         | rBV2     | 111517         | 108257        | 7.51%           | 0.521%        |
| 23        | 10.192      | 1375          | 1378        | 1381         | rVB      | 53989          | 41949         | 2.91%           | 0.202%        |
| 24        | 10.269      | 1387          | 1391        | 1393         | rBV2     | 41224          | 42699         | 2.96%           | 0.206%        |
| 25        | 10.298      | 1393          | 1396        | 1401         | rVB      | 37400          | 33258         | 2.31%           | 0.160%        |
| 26        | 10.357      | 1401          | 1406        | 1408         | rBV2     | 29432          | 44170         | 3.07%           | 0.213%        |
| 27        | 10.504      | 1427          | 1431        | 1436         | rVB      | 219494         | 220827        | 15.33%          | 1.063%        |
| 28        | 10.569      | 1436          | 1442        | 1443         | rBV2     | 40327          | 58072         | 4.03%           | 0.280%        |
| 29        | 10.586      | 1443          | 1445        | 1447         | rVV3     | 42402          | 35890         | 2.49%           | 0.173%        |
| 30        | 10.657      | 1454          | 1457        | 1461         | rVB      | 35372          | 34256         | 2.38%           | 0.165%        |
| 31        | 10.739      | 1468          | 1471        | 1475         | rVB      | 229063         | 201904        | 14.01%          | 0.972%        |
| 32        | 10.863      | 1490          | 1492        | 1498         | rVB2     | 34884          | 36230         | 2.51%           | 0.174%        |
| 33        | 11.045      | 1517          | 1523        | 1526         | rBV2     | 75540          | 95643         | 6.64%           | 0.461%        |
| 34        | 11.074      | 1526          | 1528        | 1531         | rVV2     | 59232          | 55056         | 3.82%           | 0.265%        |

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

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

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

Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF092317.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 35 | 11.133 | 1535 | 1538 | 1540 | rVV  | 50711   | 43818   | 3.04%  | 0.211% |
| 36 | 11.174 | 1540 | 1545 | 1547 | rVV3 | 21198   | 38605   | 2.68%  | 0.186% |
| 37 | 11.198 | 1547 | 1549 | 1553 | rVV3 | 36009   | 37963   | 2.63%  | 0.183% |
| 38 | 11.292 | 1561 | 1565 | 1568 | rVV3 | 32830   | 38629   | 2.68%  | 0.186% |
| 39 | 11.339 | 1570 | 1573 | 1578 | rVB  | 83914   | 70377   | 4.88%  | 0.339% |
| 40 | 11.445 | 1587 | 1591 | 1592 | rBV  | 775819  | 711410  | 49.37% | 3.426% |
| 41 | 11.468 | 1592 | 1595 | 1598 | rVV  | 1169013 | 999524  | 69.37% | 4.814% |
| 42 | 11.515 | 1600 | 1603 | 1606 | rVV  | 401235  | 321602  | 22.32% | 1.549% |
| 43 | 11.551 | 1606 | 1609 | 1612 | rVV2 | 47611   | 58390   | 4.05%  | 0.281% |
| 44 | 11.592 | 1614 | 1616 | 1622 | rVV5 | 19745   | 32095   | 2.23%  | 0.155% |
| 45 | 11.668 | 1622 | 1629 | 1636 | rVV  | 97269   | 120872  | 8.39%  | 0.582% |
| 46 | 11.733 | 1636 | 1640 | 1642 | rVV2 | 35952   | 36923   | 2.56%  | 0.178% |
| 47 | 11.768 | 1642 | 1646 | 1651 | rVB3 | 49218   | 57945   | 4.02%  | 0.279% |
| 48 | 11.857 | 1658 | 1661 | 1665 | rVB  | 29821   | 35515   | 2.46%  | 0.171% |
| 49 | 11.945 | 1670 | 1676 | 1678 | rVV  | 225683  | 223209  | 15.49% | 1.075% |
| 50 | 11.968 | 1678 | 1680 | 1684 | rVV  | 273908  | 245698  | 17.05% | 1.183% |
| 51 | 12.015 | 1684 | 1688 | 1691 | rVV  | 119489  | 108239  | 7.51%  | 0.521% |
| 52 | 12.057 | 1691 | 1695 | 1697 | rVV2 | 367786  | 406823  | 28.23% | 1.959% |
| 53 | 12.074 | 1697 | 1698 | 1702 | rVB  | 161934  | 124165  | 8.62%  | 0.598% |
| 54 | 12.233 | 1722 | 1725 | 1728 | rVV  | 111764  | 107258  | 7.44%  | 0.517% |
| 55 | 12.263 | 1728 | 1730 | 1734 | rVB2 | 60135   | 56231   | 3.90%  | 0.271% |
| 56 | 12.386 | 1749 | 1751 | 1754 | rVV  | 63846   | 50679   | 3.52%  | 0.244% |
| 57 | 12.415 | 1754 | 1756 | 1758 | rVV  | 66146   | 50142   | 3.48%  | 0.241% |
| 58 | 12.439 | 1758 | 1760 | 1763 | rVB2 | 49808   | 38987   | 2.71%  | 0.188% |
| 59 | 12.492 | 1765 | 1769 | 1772 | rBV  | 164775  | 169052  | 11.73% | 0.814% |
| 60 | 12.527 | 1772 | 1775 | 1777 | rVV2 | 90090   | 109183  | 7.58%  | 0.526% |
| 61 | 12.545 | 1777 | 1778 | 1781 | rVB  | 42471   | 30963   | 2.15%  | 0.149% |
| 62 | 12.580 | 1781 | 1784 | 1789 | rBV3 | 78449   | 110210  | 7.65%  | 0.531% |
| 63 | 12.657 | 1793 | 1797 | 1801 | rBV  | 1466380 | 1269705 | 88.12% | 6.115% |
| 64 | 12.715 | 1805 | 1807 | 1810 | rVB2 | 48732   | 43660   | 3.03%  | 0.210% |
| 65 | 12.751 | 1810 | 1813 | 1815 | rBV  | 75844   | 63035   | 4.37%  | 0.304% |
| 66 | 12.810 | 1820 | 1823 | 1825 | rBV  | 46402   | 36450   | 2.53%  | 0.176% |
| 67 | 12.886 | 1830 | 1836 | 1841 | rBV  | 1298949 | 1414316 | 98.15% | 6.811% |
| 68 | 12.933 | 1841 | 1844 | 1848 | rVB2 | 71434   | 78837   | 5.47%  | 0.380% |
| 69 | 13.021 | 1852 | 1859 | 1861 | rBV2 | 516772  | 495299  | 34.37% | 2.385% |
| 70 | 13.039 | 1861 | 1862 | 1866 | rVB  | 73195   | 61216   | 4.25%  | 0.295% |
| 71 | 13.104 | 1868 | 1873 | 1876 | rBV3 | 115352  | 185187  | 12.85% | 0.892% |

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

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

Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF092317.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|     |        |      |      |      |      |         |         |         |        |
|-----|--------|------|------|------|------|---------|---------|---------|--------|
| 72  | 13.186 | 1884 | 1887 | 1889 | rBV3 | 87917   | 109135  | 7.57%   | 0.526% |
| 73  | 13.210 | 1889 | 1891 | 1894 | rVB  | 282548  | 249316  | 17.30%  | 1.201% |
| 74  | 13.280 | 1900 | 1903 | 1905 | rBV  | 240485  | 210495  | 14.61%  | 1.014% |
| 75  | 13.315 | 1905 | 1909 | 1912 | rVV2 | 173852  | 167783  | 11.64%  | 0.808% |
| 76  | 13.374 | 1917 | 1919 | 1922 | rBV3 | 28645   | 36043   | 2.50%   | 0.174% |
| 77  | 13.410 | 1922 | 1925 | 1927 | rVV  | 118723  | 88788   | 6.16%   | 0.428% |
| 78  | 13.439 | 1927 | 1930 | 1933 | rVB  | 121511  | 100551  | 6.98%   | 0.484% |
| 79  | 13.586 | 1952 | 1955 | 1957 | rBV3 | 30463   | 35553   | 2.47%   | 0.171% |
| 80  | 13.615 | 1957 | 1960 | 1961 | rBV  | 36163   | 33904   | 2.35%   | 0.163% |
| 81  | 13.692 | 1970 | 1973 | 1975 | rBV3 | 52339   | 59995   | 4.16%   | 0.289% |
| 82  | 13.721 | 1975 | 1978 | 1982 | rVB  | 67211   | 92089   | 6.39%   | 0.443% |
| 83  | 13.833 | 1994 | 1997 | 1999 | rBV  | 79869   | 74437   | 5.17%   | 0.358% |
| 84  | 13.857 | 1999 | 2001 | 2004 | rVB  | 84824   | 65160   | 4.52%   | 0.314% |
| 85  | 13.886 | 2004 | 2006 | 2011 | rBV2 | 63787   | 98455   | 6.83%   | 0.474% |
| 86  | 14.051 | 2031 | 2034 | 2035 | rBV2 | 51536   | 52597   | 3.65%   | 0.253% |
| 87  | 14.080 | 2035 | 2039 | 2042 | rVV2 | 1037329 | 1440941 | 100.00% | 6.940% |
| 88  | 14.109 | 2042 | 2044 | 2050 | rVB  | 606791  | 511006  | 35.46%  | 2.461% |
| 89  | 14.192 | 2055 | 2058 | 2060 | rVV  | 80197   | 70871   | 4.92%   | 0.341% |
| 90  | 14.227 | 2061 | 2064 | 2068 | rVV2 | 63201   | 65466   | 4.54%   | 0.315% |
| 91  | 14.304 | 2074 | 2077 | 2081 | rBV2 | 59712   | 84308   | 5.85%   | 0.406% |
| 92  | 14.468 | 2102 | 2105 | 2108 | rVB  | 115960  | 105461  | 7.32%   | 0.508% |
| 93  | 14.498 | 2108 | 2110 | 2114 | rVB  | 66195   | 60365   | 4.19%   | 0.291% |
| 94  | 14.592 | 2124 | 2126 | 2128 | rBV  | 55173   | 48735   | 3.38%   | 0.235% |
| 95  | 14.615 | 2128 | 2130 | 2134 | rVB  | 82002   | 74189   | 5.15%   | 0.357% |
| 96  | 15.139 | 2215 | 2219 | 2222 | rBV  | 318498  | 488913  | 33.93%  | 2.355% |
| 97  | 15.245 | 2235 | 2237 | 2241 | rVB  | 73474   | 76794   | 5.33%   | 0.370% |
| 98  | 15.451 | 2268 | 2272 | 2278 | rVB  | 191130  | 248895  | 17.27%  | 1.199% |
| 99  | 15.515 | 2279 | 2283 | 2288 | rVB  | 290287  | 357308  | 24.80%  | 1.721% |
| 100 | 15.580 | 2290 | 2294 | 2297 | rBV  | 394136  | 471052  | 32.69%  | 2.269% |

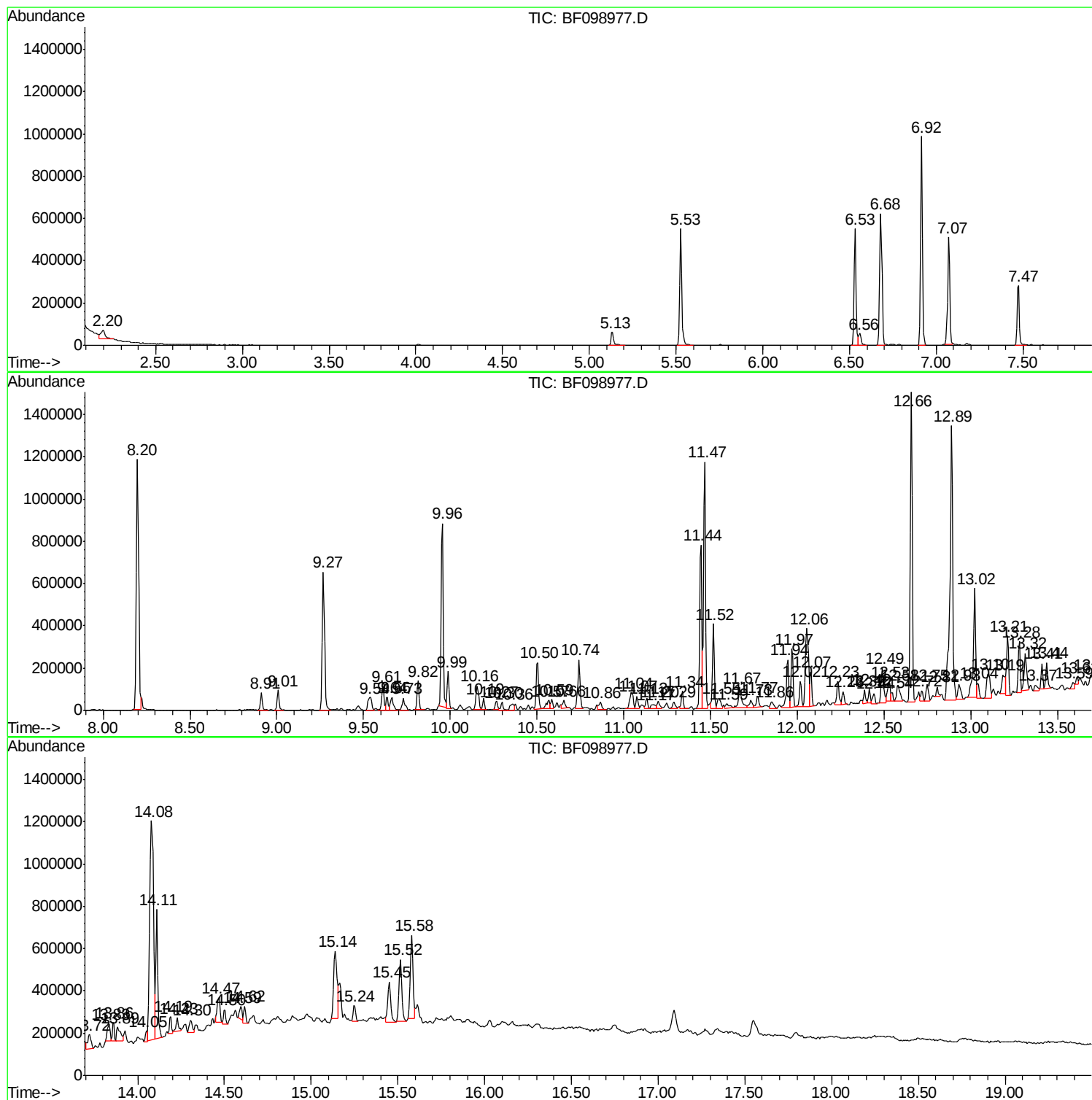
Sum of corrected areas: 20764329

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Instrument :  
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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF092317.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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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

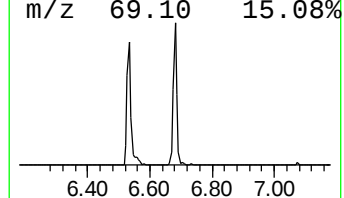
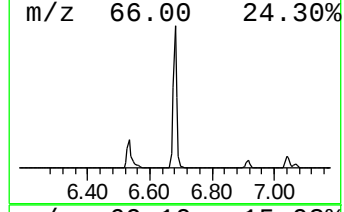
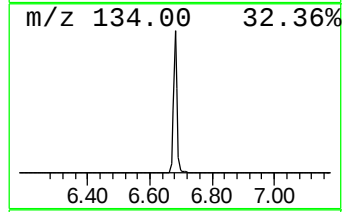
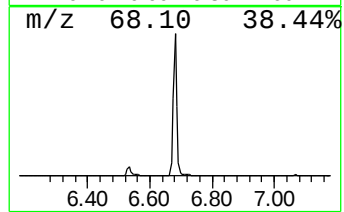
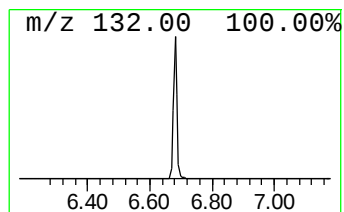
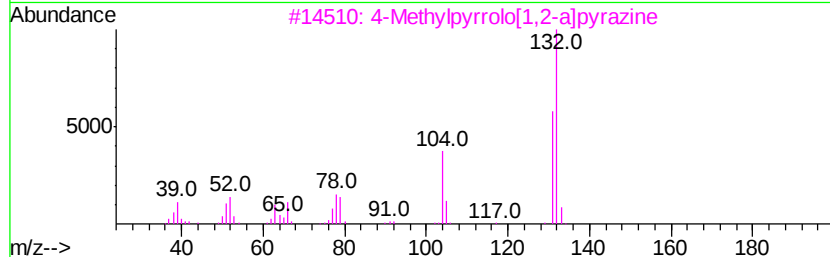
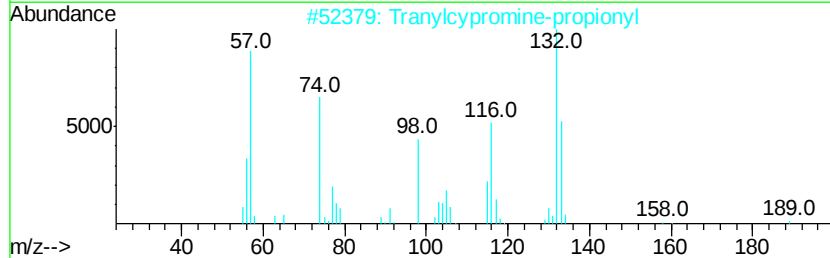
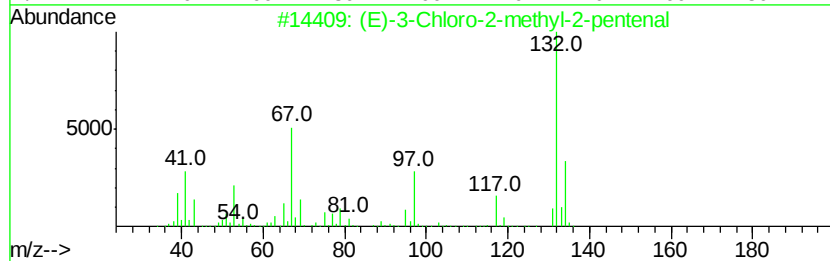
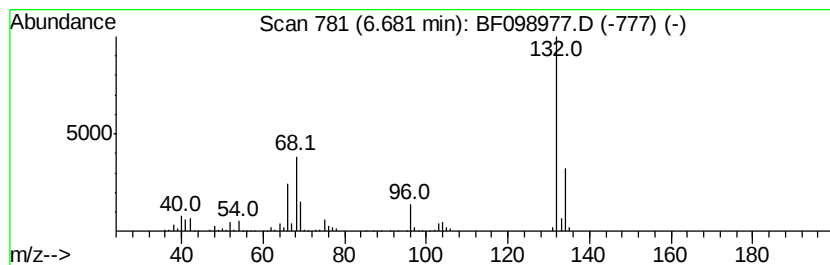
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 1 unknown6.68 Concentration Rank 1

| R.T. | EstConc  | Area   | Relative to ISTD       | R.T. |
|------|----------|--------|------------------------|------|
| 6.68 | 12.94 ng | 496799 | 1,4-Dichlorobenzene-d4 | 6.92 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|-------------------------------------|-----|----------|--------------|------|
| 1    | 5  | (E)-3-Chloro-2-methyl-2-pentenal    | 132 | C6H9ClO  | 031357-76-3  | 17   |
| 2    |    | Tranlylcypropine-propionyl          | 189 | C12H15NO | 1000123-86-3 | 10   |
| 3    |    | 4-Methylpyrrolo[1,2-a]pyrazine      | 132 | C8H8N2   | 064608-60-2  | 9    |
| 4    |    | 1-Methylpyrrolo[1,2-a]pyrazine      | 132 | C8H8N2   | 064608-59-9  | 9    |
| 5    |    | 2H-Cyclopenta[d]pyridazine, 2-me... | 132 | C8H8N2   | 022291-85-6  | 9    |



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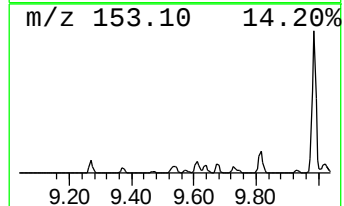
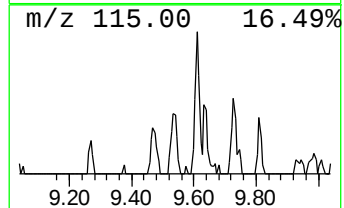
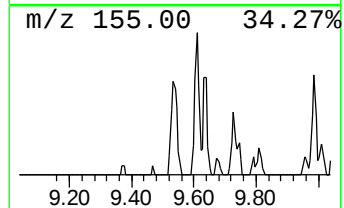
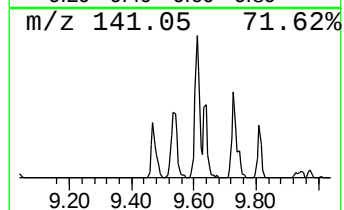
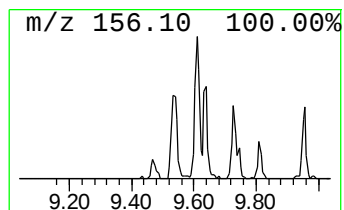
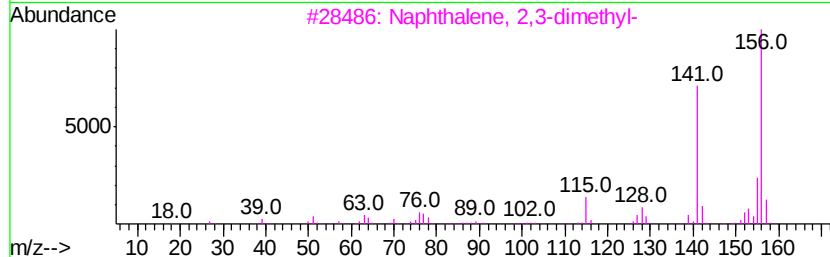
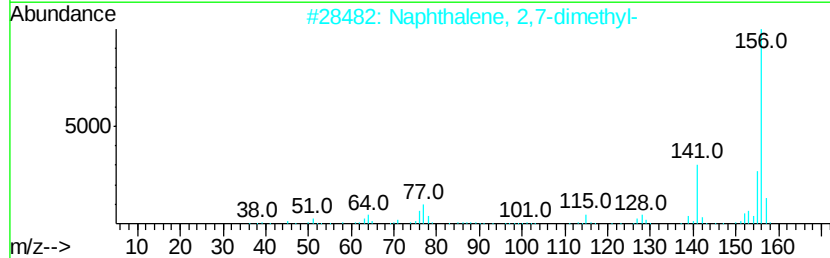
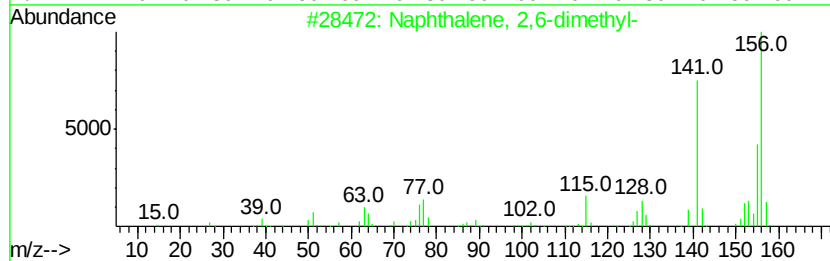
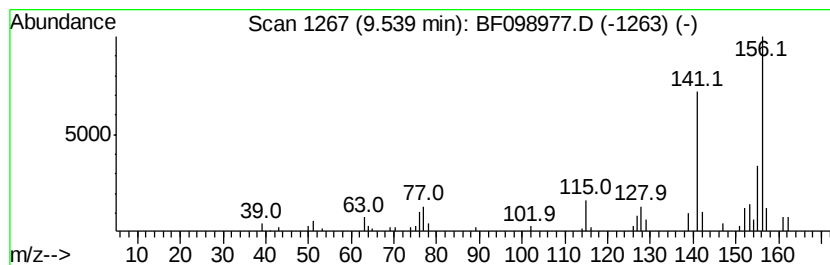
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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092317.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 3 Naphthalene, 2,6-dimethyl- Concentration Rank 20

| R.T.    | EstConc | Area                       | Relative to ISTD | R.T.           |
|---------|---------|----------------------------|------------------|----------------|
| 9.54    | 2.04 ng | 79845                      | Acenaphthene-d10 | 9.96           |
| Hit# of | 5       | Tentative ID               | MW MolForm       | CAS# Qual      |
| 1       |         | Naphthalene, 2,6-dimethyl- | 156 C12H12       | 000581-42-0 98 |
| 2       |         | Naphthalene, 2,7-dimethyl- | 156 C12H12       | 000582-16-1 97 |
| 3       |         | Naphthalene, 2,3-dimethyl- | 156 C12H12       | 000581-40-8 97 |
| 4       |         | Naphthalene, 1,6-dimethyl- | 156 C12H12       | 000575-43-9 97 |
| 5       |         | Naphthalene, 1,5-dimethyl- | 156 C12H12       | 000571-61-9 97 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF093017\  
Data File : BF098977.D  
Acq On : 30 Sep 2017 21:58  
Operator : SJ/JU  
Sample : I5547-01 5X  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

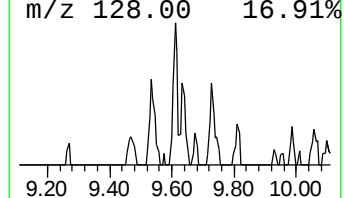
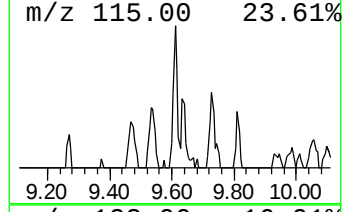
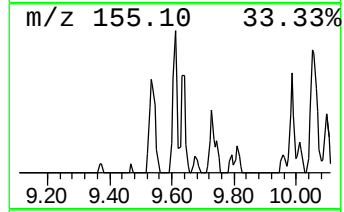
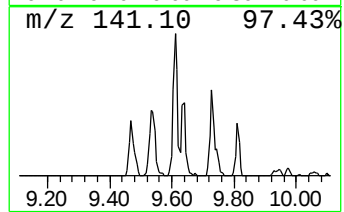
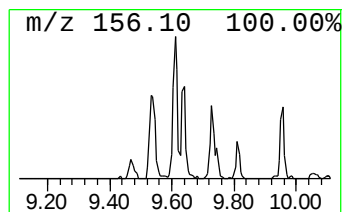
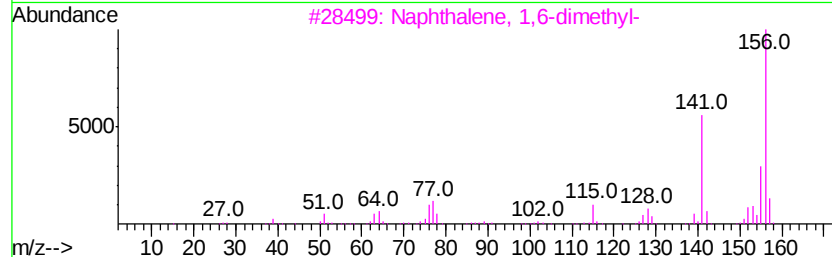
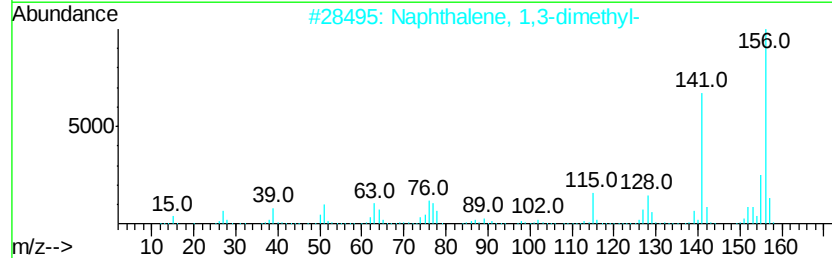
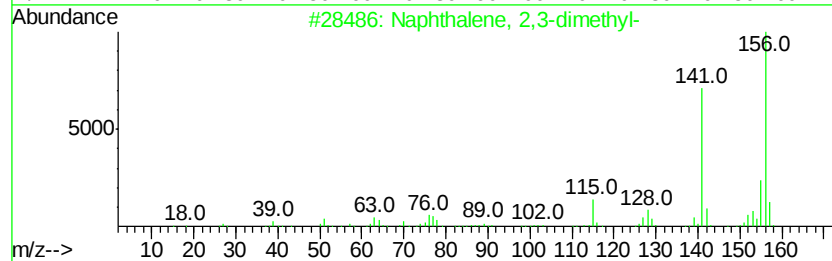
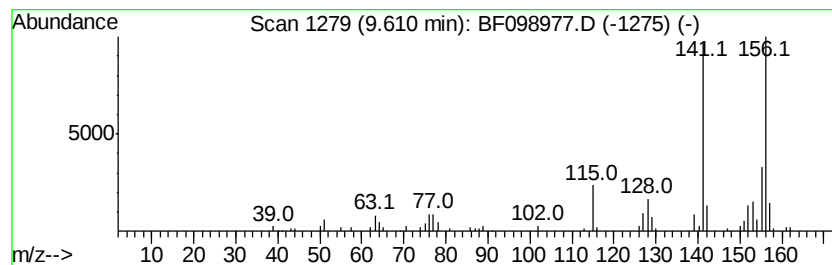
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ClientSampleId :  
CL-02-092917

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092317.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 4 Naphthalene, 2,3-dimethyl- Concentration Rank 16

| R.T.      | EstConc                    | Area   | Relative to ISTD | R.T.        |      |
|-----------|----------------------------|--------|------------------|-------------|------|
| 9.61      | 2.89 ng                    | 113347 | Acenaphthene-d10 | 9.96        |      |
| 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 | 97   |
| 3         | Naphthalene, 1,6-dimethyl- | 156    | C12H12           | 000575-43-9 | 97   |
| 4         | Naphthalene, 1,7-dimethyl- | 156    | C12H12           | 000575-37-1 | 96   |
| 5         | Naphthalene, 1,5-dimethyl- | 156    | C12H12           | 000571-61-9 | 96   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF093017\  
Data File : BF098977.D  
Acq On : 30 Sep 2017 21:58  
Operator : SJ/JU  
Sample : I5547-01 5X  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
CL-02-092917

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF092317.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

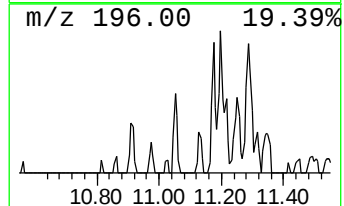
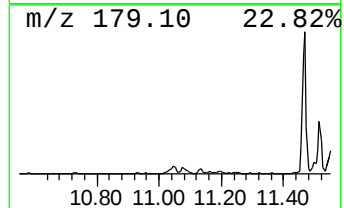
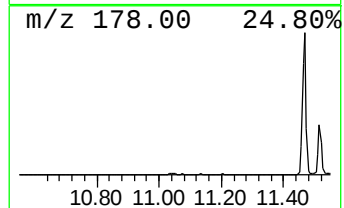
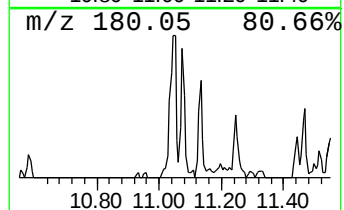
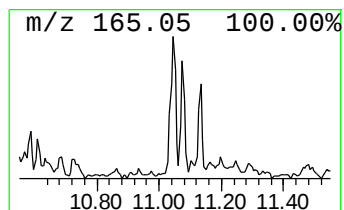
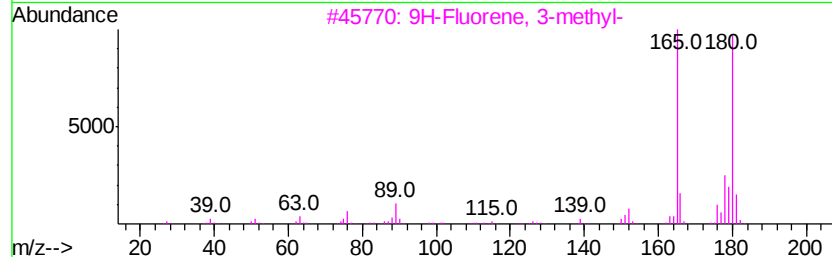
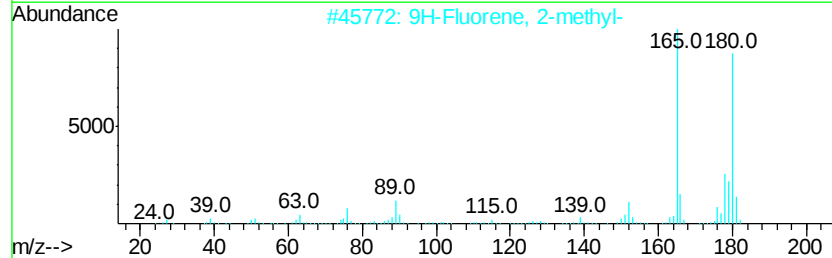
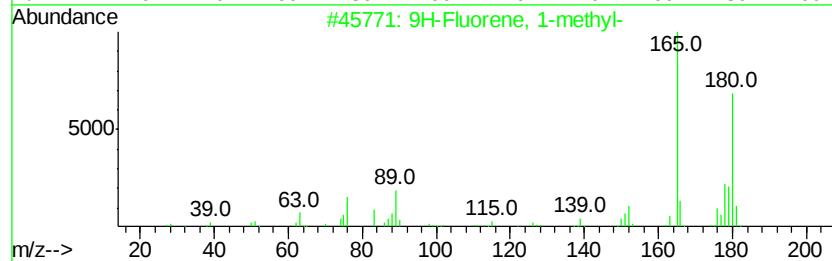
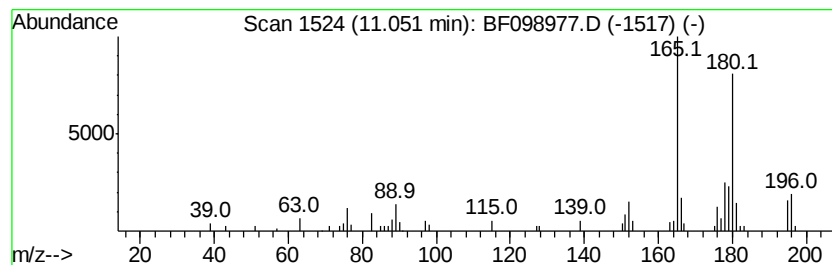
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 5 9H-Fluorene, 1-methyl- Concentration Rank 17

| R.T.  | EstConc | Area  | Relative to ISTD |  | R.T.  |
|-------|---------|-------|------------------|--|-------|
| 11.05 | 2.69 ng | 95643 | Phenanthrene-d10 |  | 11.44 |

| Hit# of | 5                      | Tentative ID | MW     | MolForm     | CAS# | Qual |
|---------|------------------------|--------------|--------|-------------|------|------|
| 1       | 9H-Fluorene, 1-methyl- | 180          | C14H12 | 001730-37-6 | 97   |      |
| 2       | 9H-Fluorene, 2-methyl- | 180          | C14H12 | 001430-97-3 | 96   |      |
| 3       | 9H-Fluorene, 3-methyl- | 180          | C14H12 | 002523-39-9 | 93   |      |
| 4       | 9H-Fluorene, 9-methyl- | 180          | C14H12 | 002523-37-7 | 93   |      |
| 5       | 9H-Fluorene, 4-methyl- | 180          | C14H12 | 001556-99-6 | 90   |      |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF093017\  
Data File : BF098977.D  
Acq On : 30 Sep 2017 21:58  
Operator : SJ/JU  
Sample : I5547-01 5X  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
CL-02-092917

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092317.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

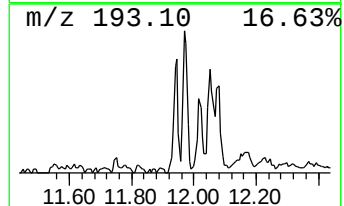
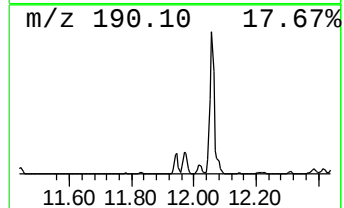
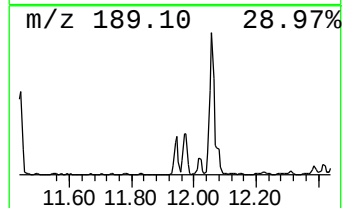
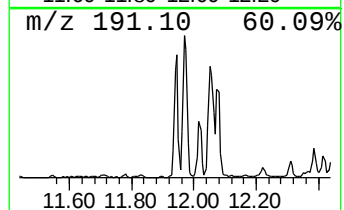
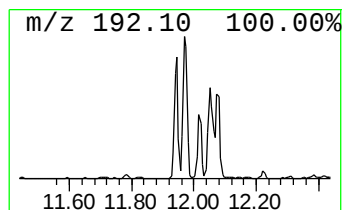
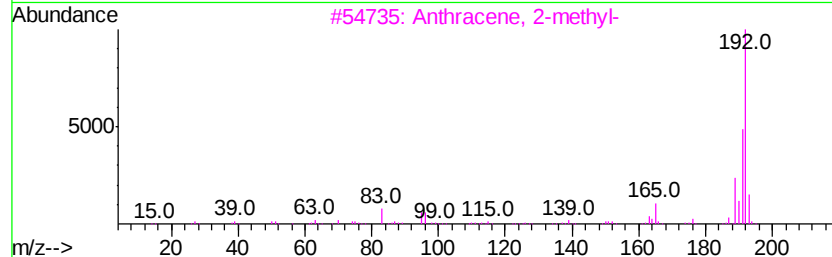
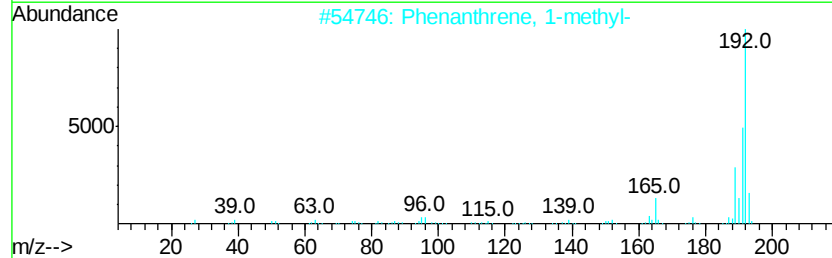
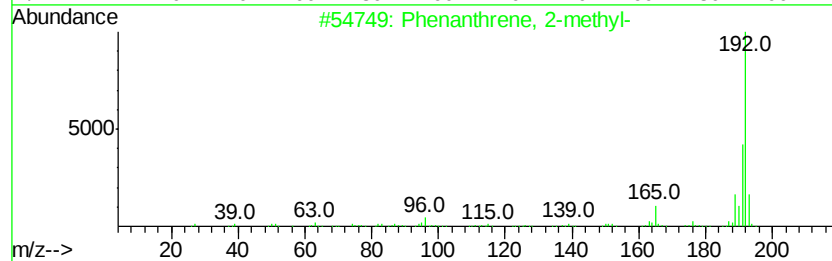
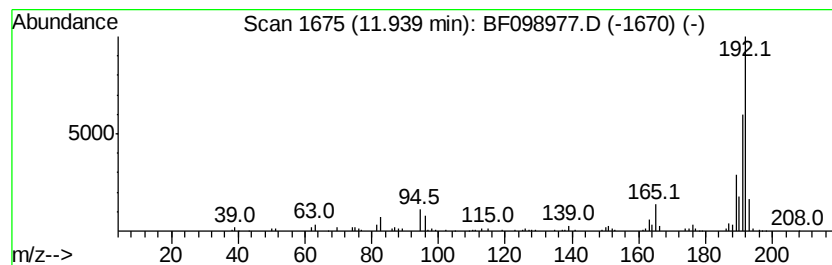
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 6 Phenanthrene, 2-methyl- Concentration Rank 6

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 11.94 | 6.28 ng | 223209 | Phenanthrene-d10 | 11.44 |

| Hit# | of | Tentative ID                          | MW  | MolForm | CAS#        | Qual |
|------|----|---------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Phenanthrene, 2-methyl-               | 192 | C15H12  | 002531-84-2 | 96   |
| 2    |    | Phenanthrene, 1-methyl-               | 192 | C15H12  | 000832-69-9 | 96   |
| 3    |    | Anthracene, 2-methyl-                 | 192 | C15H12  | 000613-12-7 | 96   |
| 4    |    | 1H-Indene, 2-phenyl-                  | 192 | C15H12  | 004505-48-0 | 94   |
| 5    |    | 1H-Cyclopropa[1]phenanthrene, 1a, ... | 192 | C15H12  | 000949-41-7 | 93   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF093017\  
Data File : BF098977.D  
Acq On : 30 Sep 2017 21:58  
Operator : SJ/JU  
Sample : I5547-01 5X  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
CL-02-092917

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF092317.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

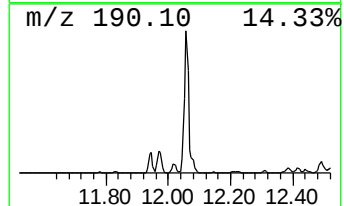
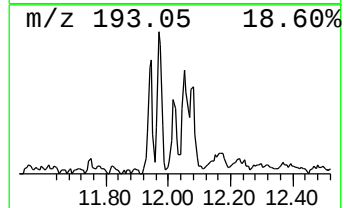
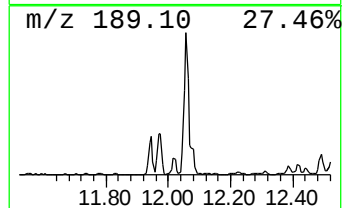
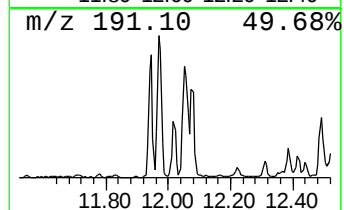
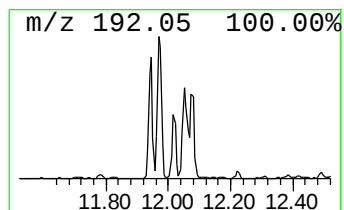
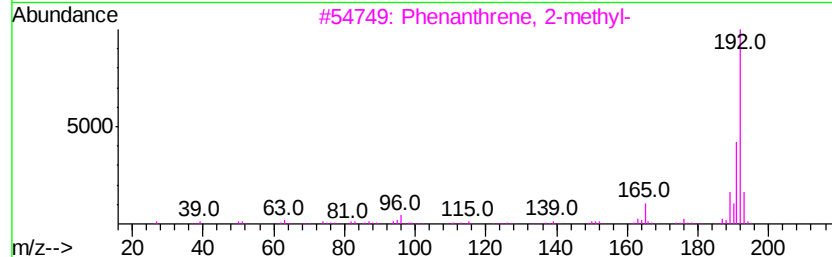
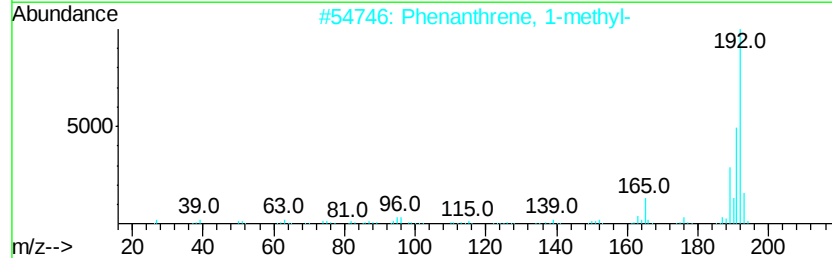
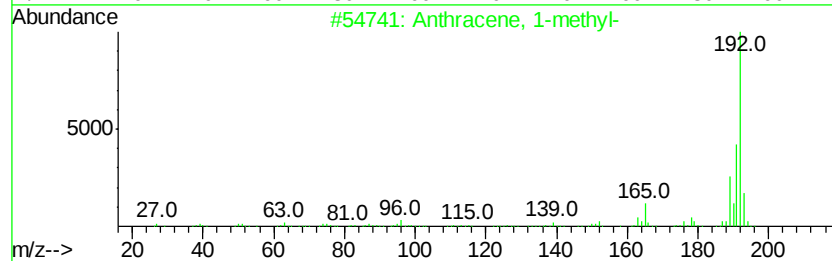
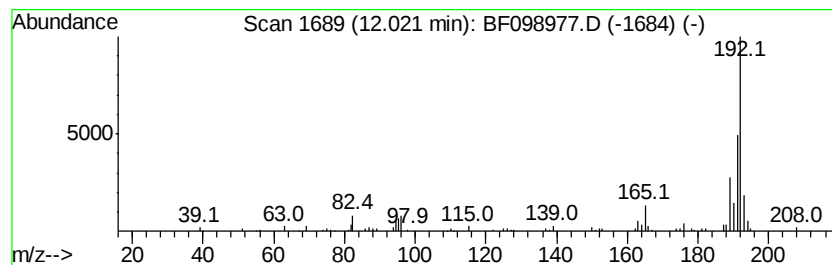
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 8 Anthracene, 1-methyl- Concentration Rank 13

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 12.02 | 3.04 ng | 108239 | Phenanthrene-d10 | 11.44 |

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



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF093017\  
Data File : BF098977.D  
Acq On : 30 Sep 2017 21:58  
Operator : SJ/JU  
Sample : I5547-01 5X  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
CL-02-092917

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF092317.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

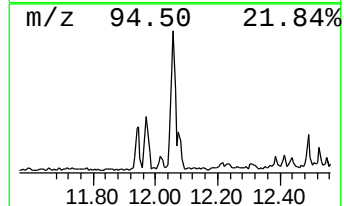
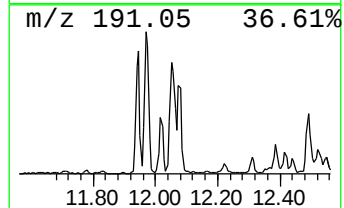
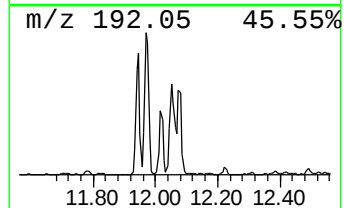
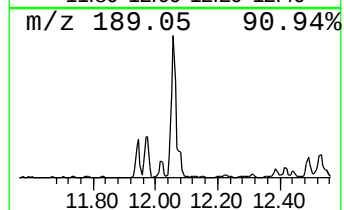
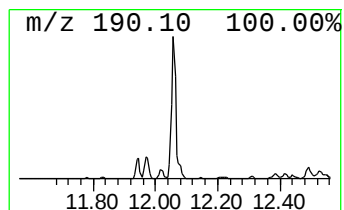
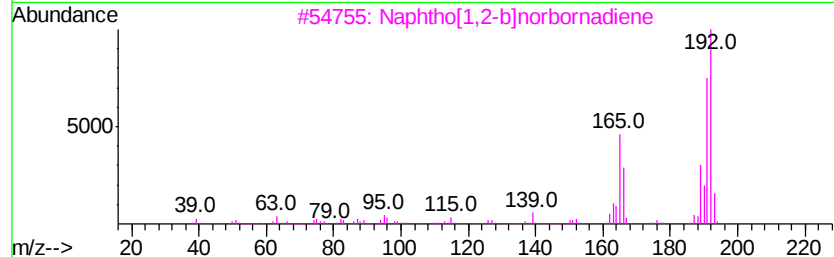
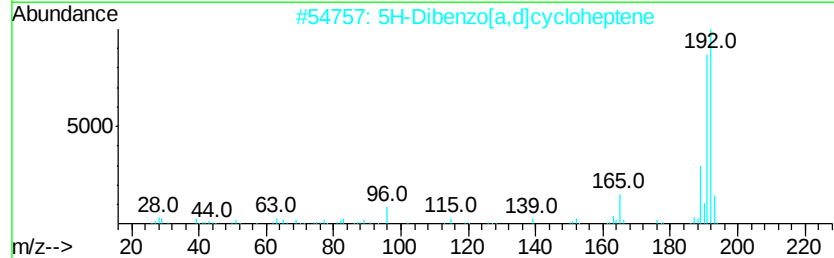
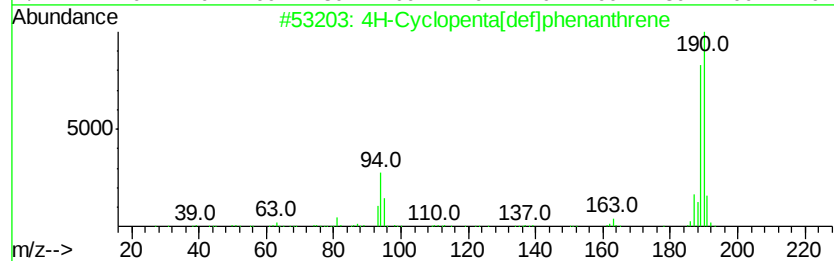
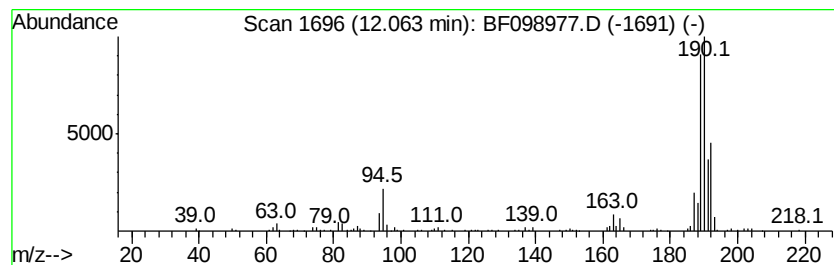
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 12.06 | 11.44 ng | 406823 | Phenanthrene-d10 | 11.44 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#         | Qual |
|------|----|-------------------------------------|-----|---------|--------------|------|
| 1    | 5  | 4H-Cyclopenta[def]phenanthrene      | 190 | C15H10  | 000203-64-5  | 93   |
| 2    |    | 5H-Dibenzo[a,d]cycloheptene         | 192 | C15H12  | 000256-81-5  | 18   |
| 3    |    | Naphtho[1,2-b]norbornadiene         | 192 | C15H12  | 1000210-14-8 | 18   |
| 4    |    | Phenanthrene, 4-methyl-             | 192 | C15H12  | 000832-64-4  | 18   |
| 5    |    | 1a,9b-Dihydro-1H-cyclopropa[a]an... | 192 | C15H12  | 006109-24-6  | 14   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF093017\  
Data File : BF098977.D  
Acq On : 30 Sep 2017 21:58  
Operator : SJ/JU  
Sample : I5547-01 5X  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
CL-02-092917

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF092317.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 10 5H-Dibenzo[a,d]cycloheptene Concentration Rank 8

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 12.07 | 3.49 ng | 124165 | Phenanthrene-d10 | 11.44 |

| Hit# | of | 5 | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|---|-----------------------------|-----|---------|-------------|------|
| 1    |    |   | 5H-Dibenzo[a,d]cycloheptene | 192 | C15H12  | 000256-81-5 | 86   |
| 2    |    |   | Phenanthrene, 4-methyl-     | 192 | C15H12  | 000832-64-4 | 86   |
| 3    |    |   | 1H-Indene, 2-phenyl-        | 192 | C15H12  | 004505-48-0 | 83   |
| 4    |    |   | Anthracene, 2-methyl-       | 192 | C15H12  | 000613-12-7 | 83   |
| 5    |    |   | Anthracene, 9-methyl-       | 192 | C15H12  | 000779-02-2 | 80   |

