

Data Path : Z:\HPCHEM1\BNA F\DATA\BF112217\  
 Data File : BF100848.D  
 Acq On : 23 Nov 2017 2:34  
 Operator : SJ/JU  
 Sample : I6548-02 20X  
 Misc :  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SAU-3-E(7-8)

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-BF110817.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         | 5.469       | 572           | 575         | 581          | rBB      | 84064          | 70377         | 11.82%          | 0.962%        |
| 2         | 6.481       | 744           | 747         | 752          | rBV      | 85963          | 73231         | 12.30%          | 1.001%        |
| 3         | 6.622       | 768           | 771         | 775          | rBB      | 87280          | 75714         | 12.72%          | 1.035%        |
| 4         | 6.857       | 807           | 811         | 815          | rBV      | 478141         | 381997        | 64.16%          | 5.221%        |
| 5         | 7.010       | 834           | 837         | 841          | rBB      | 68769          | 58141         | 9.77%           | 0.795%        |
| 6         | 7.416       | 903           | 906         | 911          | rBV      | 55322          | 42567         | 7.15%           | 0.582%        |
| 7         | 8.139       | 1025          | 1029        | 1032         | rBV      | 563950         | 505024        | 84.83%          | 6.902%        |
| 8         | 8.851       | 1148          | 1150        | 1153         | rBB      | 13185          | 9771          | 1.64%           | 0.134%        |
| 9         | 8.951       | 1165          | 1167        | 1170         | rBB      | 12741          | 9794          | 1.65%           | 0.134%        |
| 10        | 9.216       | 1208          | 1212        | 1215         | rBV      | 98938          | 80513         | 13.52%          | 1.100%        |
| 11        | 9.551       | 1266          | 1269        | 1272         | rBB      | 10082          | 8663          | 1.46%           | 0.118%        |
| 12        | 9.757       | 1301          | 1304        | 1307         | rBB      | 17923          | 13175         | 2.21%           | 0.180%        |
| 13        | 9.810       | 1308          | 1313        | 1318         | rBB4     | 7154           | 12531         | 2.10%           | 0.171%        |
| 14        | 9.898       | 1324          | 1328        | 1331         | rBV      | 637221         | 517662        | 86.95%          | 7.075%        |
| 15        | 9.927       | 1331          | 1333        | 1337         | rVB      | 55065          | 41051         | 6.90%           | 0.561%        |
| 16        | 10.098      | 1359          | 1362        | 1366         | rVB      | 27832          | 22702         | 3.81%           | 0.310%        |
| 17        | 10.304      | 1393          | 1397        | 1402         | rBB3     | 8331           | 14742         | 2.48%           | 0.201%        |
| 18        | 10.445      | 1417          | 1421        | 1426         | rVB      | 40999          | 35472         | 5.96%           | 0.485%        |
| 19        | 10.598      | 1445          | 1447        | 1450         | rVB      | 14906          | 11619         | 1.95%           | 0.159%        |
| 20        | 10.680      | 1458          | 1461        | 1465         | rVB      | 59735          | 49857         | 8.37%           | 0.681%        |
| 21        | 10.992      | 1511          | 1514        | 1517         | rVB3     | 9187           | 9064          | 1.52%           | 0.124%        |
| 22        | 11.116      | 1531          | 1535        | 1537         | rBV2     | 8018           | 9854          | 1.66%           | 0.135%        |
| 23        | 11.139      | 1537          | 1539        | 1545         | rVV2     | 9179           | 10808         | 1.82%           | 0.148%        |
| 24        | 11.186      | 1545          | 1547        | 1551         | rVB      | 24367          | 21078         | 3.54%           | 0.288%        |
| 25        | 11.239      | 1551          | 1556        | 1559         | rBV3     | 14123          | 19094         | 3.21%           | 0.261%        |
| 26        | 11.280      | 1559          | 1563        | 1568         | rVB      | 26811          | 22518         | 3.78%           | 0.308%        |
| 27        | 11.386      | 1577          | 1581        | 1583         | rBV      | 553143         | 512491        | 86.08%          | 7.005%        |
| 28        | 11.410      | 1583          | 1585        | 1588         | rVV      | 532785         | 392494        | 65.92%          | 5.364%        |
| 29        | 11.457      | 1588          | 1593        | 1596         | rVV      | 92975          | 79295         | 13.32%          | 1.084%        |
| 30        | 11.492      | 1596          | 1599        | 1602         | rVB2     | 8223           | 8773          | 1.47%           | 0.120%        |
| 31        | 11.616      | 1614          | 1620        | 1625         | rBV2     | 29737          | 35342         | 5.94%           | 0.483%        |
| 32        | 11.680      | 1628          | 1631        | 1634         | rVV      | 8873           | 8274          | 1.39%           | 0.113%        |
| 33        | 11.716      | 1634          | 1637        | 1640         | rVV      | 10389          | 9096          | 1.53%           | 0.124%        |
| 34        | 11.886      | 1661          | 1666        | 1668         | rBV      | 67052          | 57884         | 9.72%           | 0.791%        |

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 Misc :  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SAU-3-E(7-8)

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-BF110817.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |        |        |        |        |
|----|--------|------|------|------|------|--------|--------|--------|--------|
| 35 | 11.910 | 1668 | 1670 | 1674 | rVV  | 86049  | 76250  | 12.81% | 1.042% |
| 36 | 11.957 | 1676 | 1678 | 1681 | rVV  | 26849  | 22208  | 3.73%  | 0.304% |
| 37 | 11.998 | 1681 | 1685 | 1687 | rVV2 | 79626  | 89954  | 15.11% | 1.229% |
| 38 | 12.016 | 1687 | 1688 | 1693 | rVB  | 45806  | 34830  | 5.85%  | 0.476% |
| 39 | 12.180 | 1712 | 1716 | 1718 | rBV  | 43924  | 34857  | 5.85%  | 0.476% |
| 40 | 12.204 | 1718 | 1720 | 1723 | rVB  | 29071  | 23935  | 4.02%  | 0.327% |
| 41 | 12.327 | 1739 | 1741 | 1744 | rBV2 | 16625  | 12045  | 2.02%  | 0.165% |
| 42 | 12.357 | 1744 | 1746 | 1748 | rVV  | 10453  | 9271   | 1.56%  | 0.127% |
| 43 | 12.386 | 1748 | 1751 | 1753 | rVB  | 9110   | 7954   | 1.34%  | 0.109% |
| 44 | 12.433 | 1754 | 1759 | 1762 | rBV  | 30688  | 34942  | 5.87%  | 0.478% |
| 45 | 12.468 | 1762 | 1765 | 1768 | rVV3 | 19131  | 28581  | 4.80%  | 0.391% |
| 46 | 12.521 | 1771 | 1774 | 1778 | rVB2 | 32179  | 32492  | 5.46%  | 0.444% |
| 47 | 12.598 | 1783 | 1787 | 1790 | rBV  | 490915 | 395296 | 66.40% | 5.403% |
| 48 | 12.663 | 1796 | 1798 | 1800 | rVB3 | 12736  | 10465  | 1.76%  | 0.143% |
| 49 | 12.692 | 1800 | 1803 | 1805 | rBV  | 9983   | 9611   | 1.61%  | 0.131% |
| 50 | 12.727 | 1805 | 1809 | 1810 | rBV2 | 9378   | 9757   | 1.64%  | 0.133% |
| 51 | 12.751 | 1810 | 1813 | 1815 | rVB  | 13298  | 13095  | 2.20%  | 0.179% |
| 52 | 12.827 | 1820 | 1826 | 1831 | rVV  | 440227 | 437124 | 73.42% | 5.974% |
| 53 | 12.874 | 1831 | 1834 | 1839 | rVB2 | 20885  | 24940  | 4.19%  | 0.341% |
| 54 | 12.945 | 1843 | 1846 | 1847 | rBV  | 19077  | 16823  | 2.83%  | 0.230% |
| 55 | 12.963 | 1847 | 1849 | 1851 | rVV  | 73360  | 55924  | 9.39%  | 0.764% |
| 56 | 12.980 | 1851 | 1852 | 1856 | rVB  | 22446  | 17826  | 2.99%  | 0.244% |
| 57 | 13.039 | 1856 | 1862 | 1866 | rBV3 | 33849  | 55311  | 9.29%  | 0.756% |
| 58 | 13.127 | 1874 | 1877 | 1878 | rBV3 | 25681  | 25010  | 4.20%  | 0.342% |
| 59 | 13.151 | 1878 | 1881 | 1885 | rVB2 | 44364  | 50695  | 8.51%  | 0.693% |
| 60 | 13.192 | 1885 | 1888 | 1889 | rBV2 | 7959   | 8211   | 1.38%  | 0.112% |
| 61 | 13.221 | 1889 | 1893 | 1895 | rVV  | 24916  | 20133  | 3.38%  | 0.275% |
| 62 | 13.257 | 1895 | 1899 | 1902 | rVV2 | 47862  | 53331  | 8.96%  | 0.729% |
| 63 | 13.280 | 1902 | 1903 | 1907 | rVB3 | 14459  | 10559  | 1.77%  | 0.144% |
| 64 | 13.351 | 1912 | 1915 | 1918 | rVV  | 34149  | 34599  | 5.81%  | 0.473% |
| 65 | 13.380 | 1918 | 1920 | 1923 | rVV  | 36473  | 34786  | 5.84%  | 0.475% |
| 66 | 13.410 | 1923 | 1925 | 1927 | rVB2 | 8583   | 7848   | 1.32%  | 0.107% |
| 67 | 13.533 | 1943 | 1946 | 1948 | rBV4 | 10015  | 12486  | 2.10%  | 0.171% |
| 68 | 13.639 | 1961 | 1964 | 1965 | rBV3 | 6883   | 8362   | 1.40%  | 0.114% |
| 69 | 13.662 | 1965 | 1968 | 1972 | rVV  | 39258  | 42674  | 7.17%  | 0.583% |
| 70 | 13.721 | 1976 | 1978 | 1982 | rVV5 | 9989   | 11969  | 2.01%  | 0.164% |
| 71 | 13.774 | 1982 | 1987 | 1989 | rVV2 | 36146  | 59475  | 9.99%  | 0.813% |

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Misc :  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SAU-3-E(7-8)

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-BF110817.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |        |        |         |        |
|----|--------|------|------|------|------|--------|--------|---------|--------|
| 72 | 13.798 | 1989 | 1991 | 1994 | rVV  | 43431  | 52495  | 8.82%   | 0.717% |
| 73 | 13.827 | 1994 | 1996 | 2001 | rVV2 | 33279  | 63038  | 10.59%  | 0.862% |
| 74 | 13.868 | 2001 | 2003 | 2010 | rVB2 | 38520  | 54210  | 9.11%   | 0.741% |
| 75 | 13.992 | 2021 | 2024 | 2025 | rBV2 | 19284  | 15414  | 2.59%   | 0.211% |
| 76 | 14.021 | 2025 | 2029 | 2032 | rVV2 | 500149 | 595370 | 100.00% | 8.137% |
| 77 | 14.051 | 2032 | 2034 | 2039 | rVB  | 172250 | 153805 | 25.83%  | 2.102% |
| 78 | 14.127 | 2045 | 2047 | 2050 | rBV2 | 17067  | 14281  | 2.40%   | 0.195% |
| 79 | 14.374 | 2087 | 2089 | 2091 | rBV2 | 12505  | 12122  | 2.04%   | 0.166% |
| 80 | 14.410 | 2091 | 2095 | 2097 | rVV  | 37427  | 44042  | 7.40%   | 0.602% |
| 81 | 14.439 | 2098 | 2100 | 2104 | rVB  | 19495  | 21384  | 3.59%   | 0.292% |
| 82 | 14.533 | 2113 | 2116 | 2118 | rBV3 | 28892  | 32084  | 5.39%   | 0.439% |
| 83 | 14.557 | 2118 | 2120 | 2122 | rVB3 | 14916  | 10260  | 1.72%   | 0.140% |
| 84 | 15.062 | 2202 | 2206 | 2209 | rBV  | 150360 | 215904 | 36.26%  | 2.951% |
| 85 | 15.168 | 2222 | 2224 | 2228 | rVB  | 27907  | 27320  | 4.59%   | 0.373% |
| 86 | 15.257 | 2237 | 2239 | 2243 | rBV5 | 11877  | 15842  | 2.66%   | 0.217% |
| 87 | 15.368 | 2254 | 2258 | 2265 | rVB2 | 86961  | 111510 | 18.73%  | 1.524% |
| 88 | 15.427 | 2265 | 2268 | 2274 | rVB  | 127221 | 164624 | 27.65%  | 2.250% |
| 89 | 15.498 | 2274 | 2280 | 2283 | rBV  | 334250 | 428777 | 72.02%  | 5.860% |
| 90 | 16.056 | 2372 | 2375 | 2382 | rVB8 | 13376  | 24831  | 4.17%   | 0.339% |
| 91 | 16.968 | 2525 | 2530 | 2538 | rVB3 | 53904  | 108803 | 18.27%  | 1.487% |
| 92 | 17.409 | 2599 | 2605 | 2612 | rBV2 | 37284  | 86154  | 14.47%  | 1.178% |

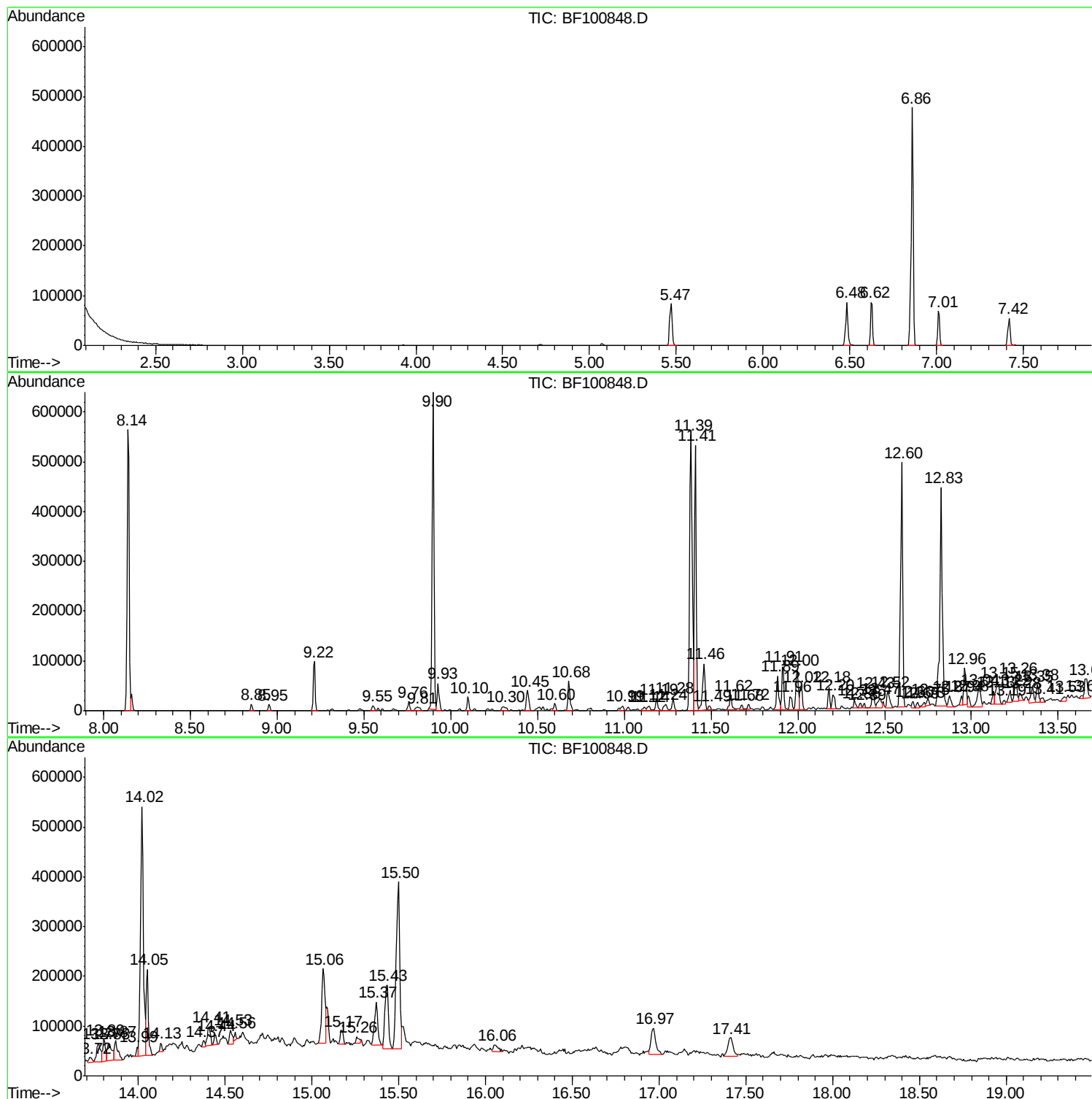
Sum of corrected areas: 7316567

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Data File : BF100848.D  
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Misc :  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SAU-3-E(7-8)

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF110817.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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ALS Vial : 21 Sample Multiplier: 1

Instrument :  
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ClientSampleId :  
SAU-3-E(7-8)

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF110817.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

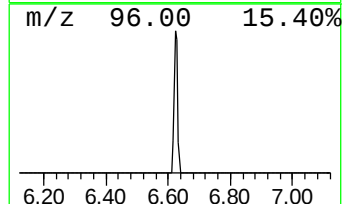
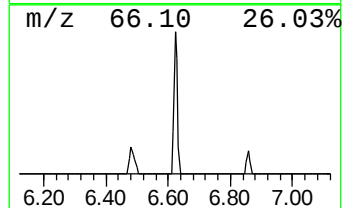
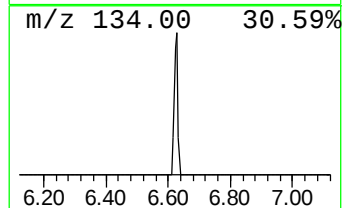
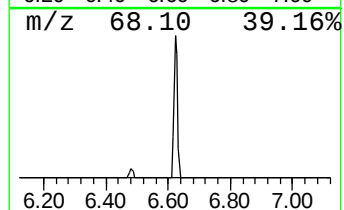
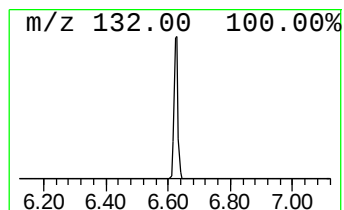
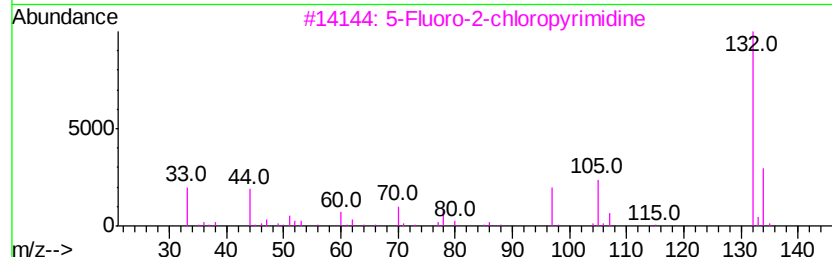
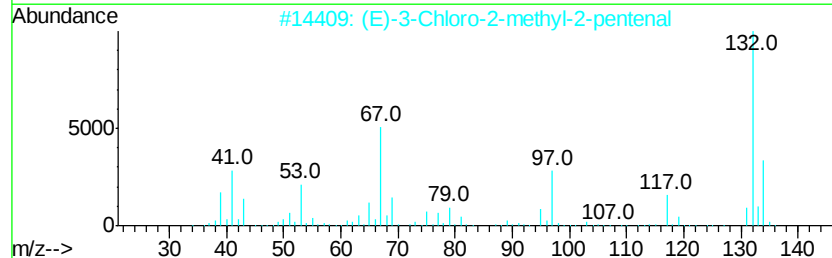
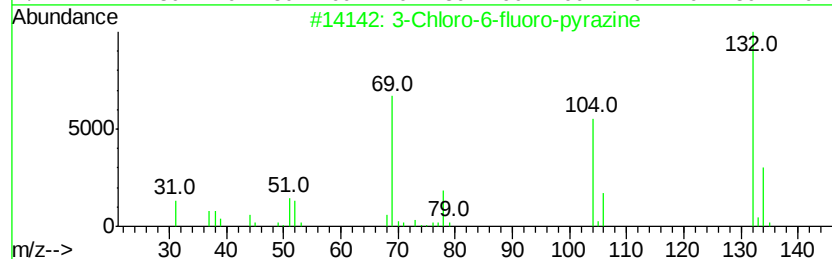
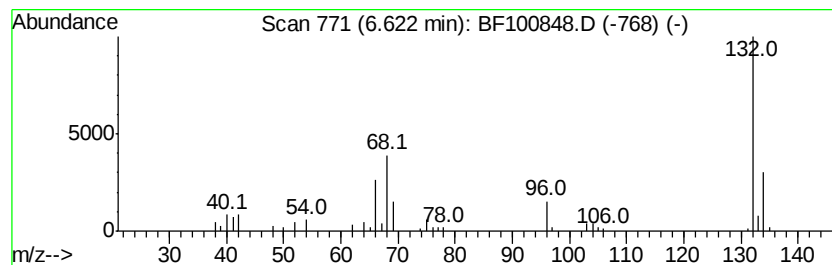
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 1 unknown6.62 Concentration Rank 2

| R.T. | EstConc | Area  | Relative to ISTD       | R.T. |
|------|---------|-------|------------------------|------|
| 6.62 | 3.96 ng | 75714 | 1,4-Dichlorobenzene-d4 | 6.86 |

| Hit# | of | Tentative ID                     | MW  | MolForm   | CAS#         | Qual |
|------|----|----------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 3-Chloro-6-fluoro-pyrazine       | 132 | C4H2ClFN2 | 1000146-10-7 | 27   |
| 2    |    | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO   | 031357-76-3  | 16   |
| 3    |    | 5-Fluoro-2-chloropyrimidine      | 132 | C4H2ClFN2 | 062802-42-0  | 16   |
| 4    |    | 1,3,5-Trifluorobenzene           | 132 | C6H3F3    | 000372-38-3  | 10   |
| 5    |    | 5-Aminoindole                    | 132 | C8H8N2    | 005192-03-0  | 10   |



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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF110817.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

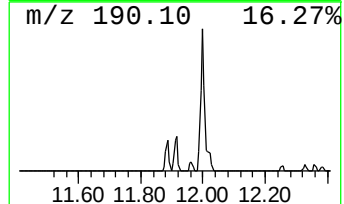
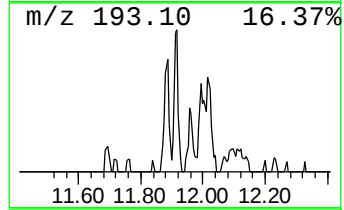
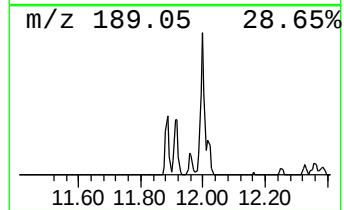
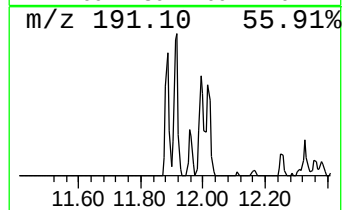
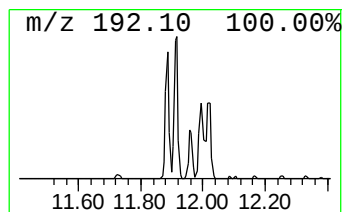
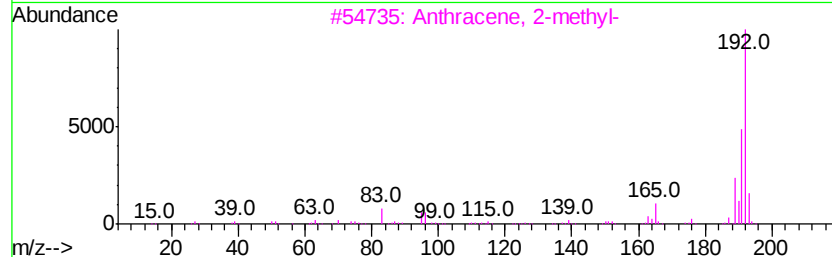
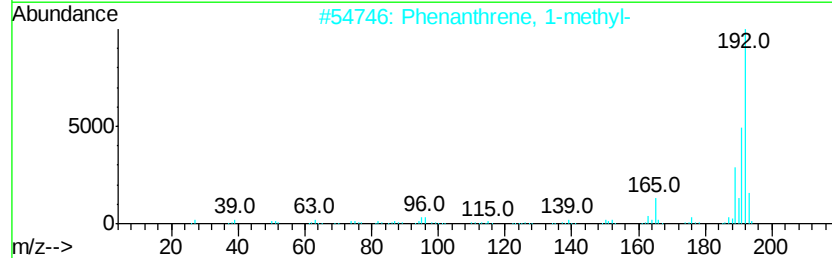
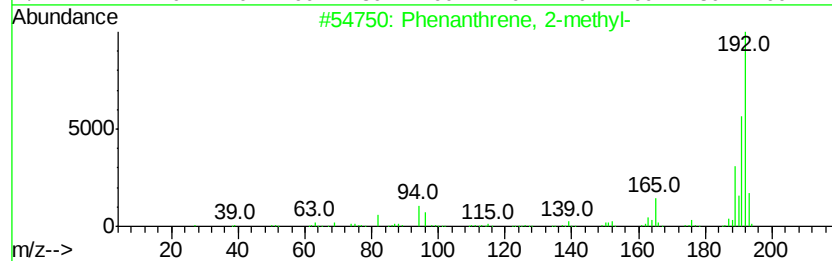
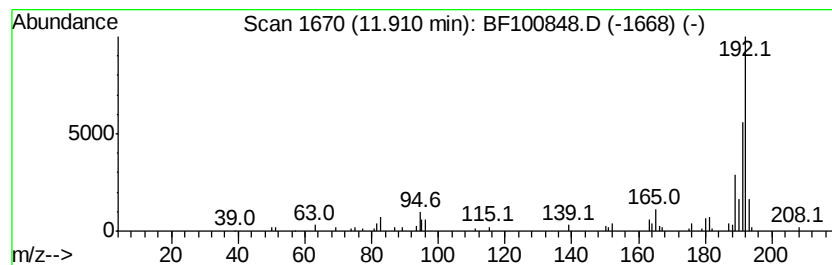
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 Phenanthrene, 2-methyl- Concentration Rank 5

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 11.91 | 2.98 ng | 76250 | Phenanthrene-d10 | 11.39 |

| Hit# of | 5 | Tentative ID                          | MW  | MolForm | CAS#        | Qual |
|---------|---|---------------------------------------|-----|---------|-------------|------|
| 1       |   | Phenanthrene, 2-methyl-               | 192 | C15H12  | 002531-84-2 | 97   |
| 2       |   | Phenanthrene, 1-methyl-               | 192 | C15H12  | 000832-69-9 | 96   |
| 3       |   | Anthracene, 2-methyl-                 | 192 | C15H12  | 000613-12-7 | 96   |
| 4       |   | Anthracene, 1-methyl-                 | 192 | C15H12  | 000610-48-0 | 94   |
| 5       |   | 1H-Cyclopropa[1]phenanthrene, 1a, ... | 192 | C15H12  | 000949-41-7 | 93   |



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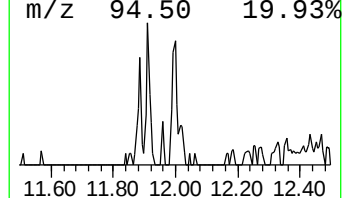
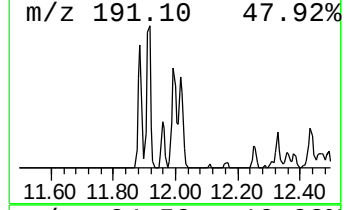
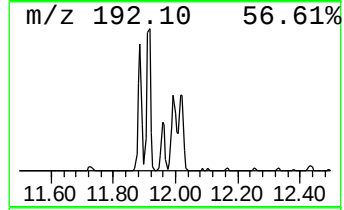
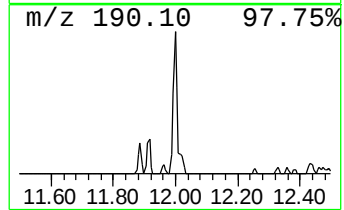
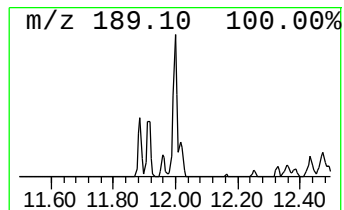
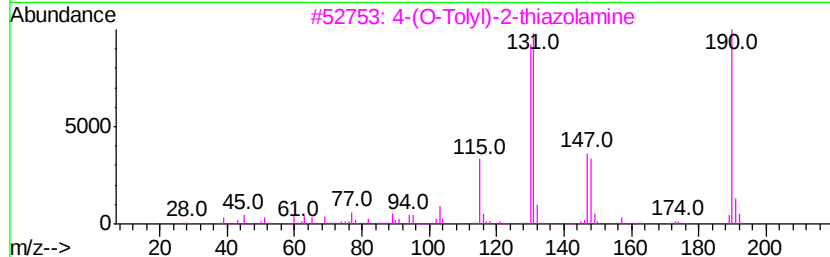
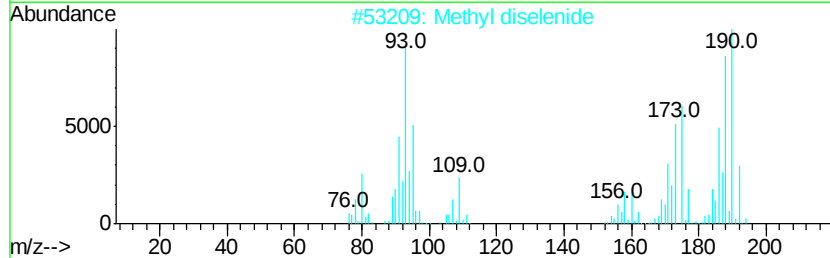
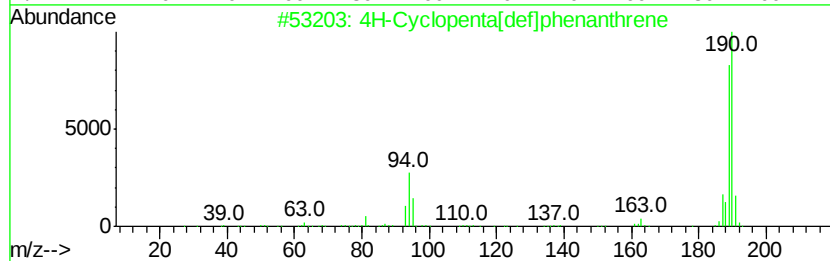
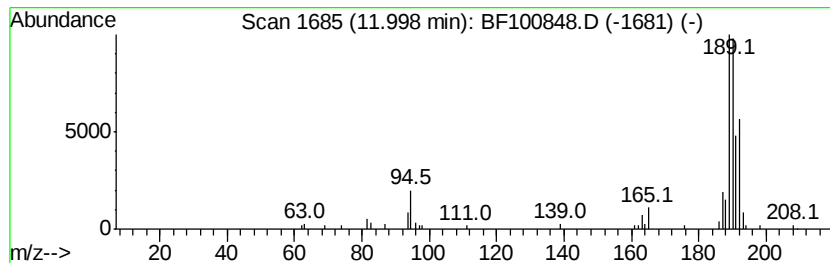
Instrument :  
BNA\_F  
ClientSampleId :  
SAU-3-E(7-8)

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF110817.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 4H-Cyclopenta[def]phenanthrene Concentration Rank 3

| R.T.      | EstConc                            | Area  | Relative to ISTD | R.T.        |      |
|-----------|------------------------------------|-------|------------------|-------------|------|
| 12.00     | 3.51 ng                            | 89954 | Phenanthrene-d10 | 11.39       |      |
| Hit# of 5 | Tentative ID                       | MW    | MolForm          | CAS#        | Qual |
| 1         | 4H-Cyclopenta[def]phenanthrene     | 190   | C15H10           | 000203-64-5 | 64   |
| 2         | Methyl diselenide                  | 190   | C2H6Se2          | 007101-31-7 | 45   |
| 3         | 4-(O-Tolyl)-2-thiazolamine         | 190   | C10H10N2S        | 005330-79-0 | 35   |
| 4         | Benzene, 1,1'-(1,2-propadienyld... | 192   | C15H12           | 014251-57-1 | 22   |
| 5         | 1H-Indene, 2-phenyl-               | 192   | C15H12           | 004505-48-0 | 18   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF112217\  
Data File : BF100848.D  
Acq On : 23 Nov 2017 2:34  
Operator : SJ/JU  
Sample : I6548-02 20X  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

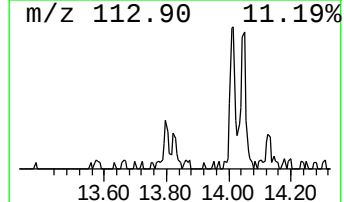
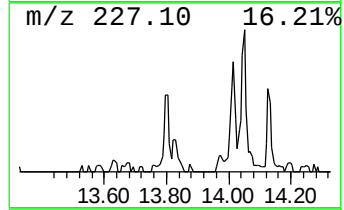
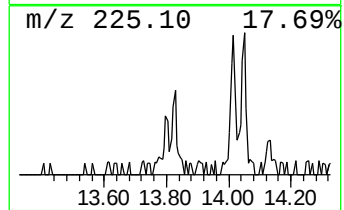
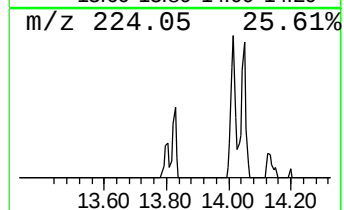
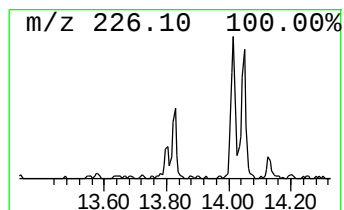
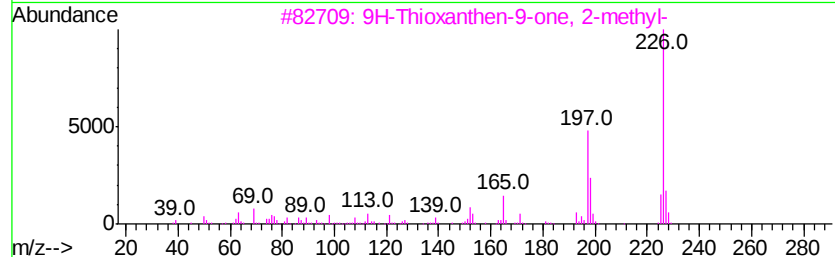
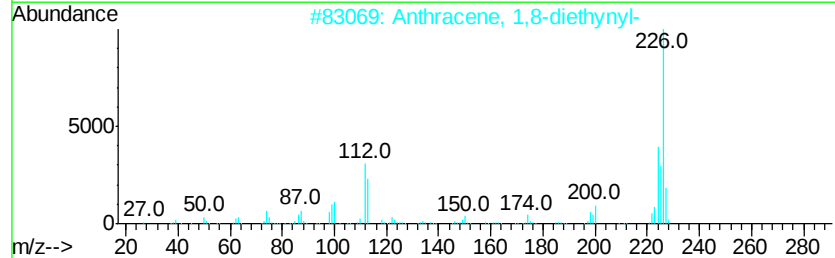
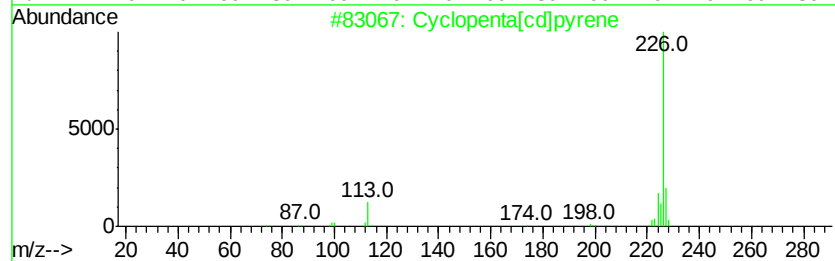
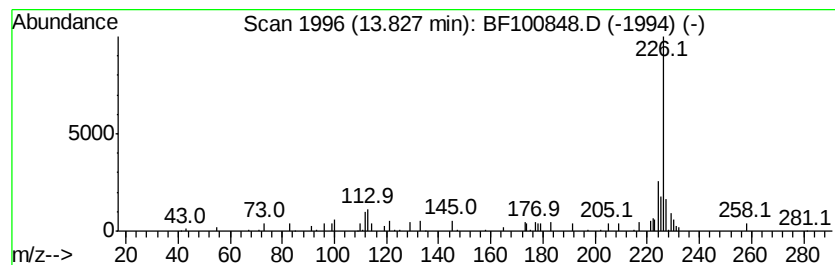
Instrument :  
BNA\_F  
ClientSampleId :  
SAU-3-E(7-8)

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF110817.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 Cyclopenta[cd]pyrene Concentration Rank 7

| R.T.    | EstConc | Area                                | Relative to ISTD | R.T.      |              |      |
|---------|---------|-------------------------------------|------------------|-----------|--------------|------|
| 13.83   | 2.12 ng | 63038                               | Chrysene-d12     | 14.02     |              |      |
| Hit# of | 5       | Tentative ID                        | MW               | MolForm   | CAS#         | Qual |
| 1       |         | Cvclopenta[cd]pvrene                | 226              | C18H10    | 027208-37-3  | 53   |
| 2       |         | Anthracene, 1,8-diethynyl-          | 226              | C18H10    | 078053-58-4  | 53   |
| 3       |         | 9H-Thioxanthen-9-one, 2-methyl-     | 226              | C14H10O   | 015774-82-0  | 53   |
| 4       |         | Benzene, 2-bromo-1,4-dichloro-      | 224              | C6H3BrCl2 | 001435-50-3  | 53   |
| 5       |         | Acridin-9-amine, 1,2,3,4-tetrahy... | 226              | C15H18N2  | 1000300-57-6 | 50   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF112217\  
Data File : BF100848.D  
Acq On : 23 Nov 2017 2:34  
Operator : SJ/JU  
Sample : I6548-02 20X  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SAU-3-E(7-8)

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF110817.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 |
| unknown6.62          | 6.62  | 4.0     | ng    | 75714    | 1                     | 6.86  | 381997 | 20.0 |
| Phenanthrene, 2-m... | 11.91 | 3.0     | ng    | 76250    | 4                     | 11.39 | 512491 | 20.0 |
| 4H-Cyclopenta[def... | 12.00 | 3.5     | ng    | 89954    | 4                     | 11.39 | 512491 | 20.0 |
| Cyclopenta[cd]pyrene | 13.83 | 2.1     | ng    | 63038    | 5                     | 14.02 | 595370 | 20.0 |