

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF090619\  
 Data File : BF116870.D  
 Acq On : 6 Sep 2019 20:02  
 Operator : HP/JU  
 Sample : K4669-01 5X  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TR-05-090519

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:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF083019.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         | 5.463       | 570           | 574         | 587          | rBV      | 226564         | 241719        | 28.45%          | 2.257%        |
| 2         | 6.469       | 742           | 745         | 758          | rBV      | 270271         | 282935        | 33.30%          | 2.642%        |
| 3         | 6.616       | 766           | 770         | 779          | rBV      | 323671         | 290120        | 34.14%          | 2.709%        |
| 4         | 6.845       | 806           | 809         | 825          | rBV      | 508634         | 431628        | 50.80%          | 4.030%        |
| 5         | 7.004       | 832           | 836         | 845          | rBV      | 232545         | 214459        | 25.24%          | 2.002%        |
| 6         | 7.404       | 900           | 904         | 918          | rBV      | 144420         | 164132        | 19.32%          | 1.532%        |
| 7         | 8.128       | 1023          | 1027        | 1045         | rBV      | 628586         | 583764        | 68.70%          | 5.450%        |
| 8         | 9.198       | 1206          | 1209        | 1222         | rBV      | 366885         | 322040        | 37.90%          | 3.007%        |
| 9         | 9.592       | 1273          | 1276        | 1278         | rBV      | 22281          | 20874         | 2.46%           | 0.195%        |
| 10        | 9.739       | 1298          | 1301        | 1306         | rBV      | 59142          | 50699         | 5.97%           | 0.473%        |
| 11        | 9.880       | 1321          | 1325        | 1329         | rBV      | 740666         | 603897        | 71.07%          | 5.638%        |
| 12        | 9.910       | 1329          | 1330        | 1337         | rVB      | 19980          | 16645         | 1.96%           | 0.155%        |
| 13        | 10.086      | 1355          | 1360        | 1364         | rBV      | 8965           | 9855          | 1.16%           | 0.092%        |
| 14        | 10.428      | 1415          | 1418        | 1423         | rBV      | 19564          | 20518         | 2.41%           | 0.192%        |
| 15        | 10.539      | 1431          | 1437        | 1440         | rBV3     | 7603           | 10849         | 1.28%           | 0.101%        |
| 16        | 10.669      | 1454          | 1459        | 1464         | rBV      | 127430         | 126552        | 14.89%          | 1.182%        |
| 17        | 10.792      | 1476          | 1480        | 1483         | rBV3     | 12784          | 14916         | 1.76%           | 0.139%        |
| 18        | 10.975      | 1507          | 1511        | 1514         | rBV3     | 7516           | 10023         | 1.18%           | 0.094%        |
| 19        | 11.263      | 1558          | 1560        | 1564         | rVB      | 16667          | 13811         | 1.63%           | 0.129%        |
| 20        | 11.363      | 1574          | 1577        | 1580         | rBV      | 524377         | 505149        | 59.45%          | 4.716%        |
| 21        | 11.386      | 1580          | 1581        | 1586         | rVV      | 219452         | 155538        | 18.30%          | 1.452%        |
| 22        | 11.439      | 1587          | 1590        | 1593         | rVV      | 105889         | 91382         | 10.75%          | 0.853%        |
| 23        | 11.474      | 1593          | 1596        | 1599         | rVB4     | 8276           | 9341          | 1.10%           | 0.087%        |
| 24        | 11.592      | 1613          | 1616        | 1619         | rBV      | 11285          | 11453         | 1.35%           | 0.107%        |
| 25        | 11.657      | 1624          | 1627        | 1632         | rVV3     | 9317           | 9045          | 1.06%           | 0.084%        |
| 26        | 11.757      | 1640          | 1644        | 1646         | rBV      | 84429          | 71063         | 8.36%           | 0.663%        |
| 27        | 11.869      | 1659          | 1663        | 1665         | rBV      | 34608          | 37005         | 4.35%           | 0.345%        |
| 28        | 11.892      | 1665          | 1667        | 1673         | rVB      | 57447          | 51061         | 6.01%           | 0.477%        |
| 29        | 11.939      | 1673          | 1675        | 1678         | rBV      | 25751          | 24860         | 2.93%           | 0.232%        |
| 30        | 11.980      | 1678          | 1682        | 1684         | rBV      | 86236          | 89766         | 10.56%          | 0.838%        |
| 31        | 12.163      | 1709          | 1713        | 1715         | rBV      | 31899          | 33213         | 3.91%           | 0.310%        |
| 32        | 12.186      | 1715          | 1717        | 1723         | rVB4     | 20704          | 22169         | 2.61%           | 0.207%        |
| 33        | 12.339      | 1741          | 1743        | 1745         | rBV      | 13205          | 10566         | 1.24%           | 0.099%        |
| 34        | 12.363      | 1745          | 1747        | 1749         | rVB2     | 12364          | 9542          | 1.12%           | 0.089%        |

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF090619\  
 Data File : BF116870.D  
 Acq On : 6 Sep 2019 20:02  
 Operator : HP/JU  
 Sample : K4669-01 5X  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TR-05-090519

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:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF083019.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |        |        |         |        |
|----|--------|------|------|------|------|--------|--------|---------|--------|
| 35 | 12.416 | 1753 | 1756 | 1757 | rBV  | 37941  | 37698  | 4.44%   | 0.352% |
| 36 | 12.439 | 1757 | 1760 | 1762 | rVV  | 484289 | 413872 | 48.71%  | 3.864% |
| 37 | 12.457 | 1762 | 1763 | 1768 | rVV2 | 269426 | 223689 | 26.32%  | 2.088% |
| 38 | 12.498 | 1768 | 1770 | 1775 | rVB2 | 40406  | 43702  | 5.14%   | 0.408% |
| 39 | 12.545 | 1775 | 1778 | 1780 | rBV  | 40126  | 32991  | 3.88%   | 0.308% |
| 40 | 12.574 | 1780 | 1783 | 1787 | rBV  | 615328 | 531789 | 62.58%  | 4.965% |
| 41 | 12.621 | 1788 | 1791 | 1792 | rBV3 | 10327  | 8566   | 1.01%   | 0.080% |
| 42 | 12.639 | 1792 | 1794 | 1796 | rVB3 | 12600  | 11393  | 1.34%   | 0.106% |
| 43 | 12.669 | 1796 | 1799 | 1802 | rBV  | 26369  | 22045  | 2.59%   | 0.206% |
| 44 | 12.727 | 1806 | 1809 | 1816 | rVB3 | 23493  | 33692  | 3.97%   | 0.315% |
| 45 | 12.804 | 1816 | 1822 | 1828 | rBV  | 578270 | 605406 | 71.25%  | 5.652% |
| 46 | 12.851 | 1828 | 1830 | 1836 | rVB2 | 21738  | 28865  | 3.40%   | 0.269% |
| 47 | 12.939 | 1839 | 1845 | 1848 | rBV2 | 273588 | 281460 | 33.12%  | 2.628% |
| 48 | 13.021 | 1854 | 1859 | 1862 | rBV2 | 46213  | 77175  | 9.08%   | 0.721% |
| 49 | 13.045 | 1862 | 1863 | 1867 | rVB2 | 12897  | 12313  | 1.45%   | 0.115% |
| 50 | 13.133 | 1870 | 1878 | 1881 | rVB  | 101494 | 158082 | 18.60%  | 1.476% |
| 51 | 13.198 | 1881 | 1889 | 1891 | rBV  | 82544  | 105127 | 12.37%  | 0.981% |
| 52 | 13.239 | 1891 | 1896 | 1898 | rVV2 | 67577  | 78031  | 9.18%   | 0.729% |
| 53 | 13.263 | 1898 | 1900 | 1903 | rVV4 | 16376  | 20123  | 2.37%   | 0.188% |
| 54 | 13.298 | 1904 | 1906 | 1909 | rVV4 | 16184  | 16221  | 1.91%   | 0.151% |
| 55 | 13.327 | 1909 | 1911 | 1914 | rVV  | 42403  | 40566  | 4.77%   | 0.379% |
| 56 | 13.357 | 1914 | 1916 | 1920 | rVB  | 44327  | 43106  | 5.07%   | 0.402% |
| 57 | 13.516 | 1939 | 1943 | 1944 | rBV4 | 20753  | 26720  | 3.14%   | 0.249% |
| 58 | 13.616 | 1957 | 1960 | 1961 | rBV3 | 13740  | 14801  | 1.74%   | 0.138% |
| 59 | 13.639 | 1961 | 1964 | 1968 | rVB  | 45376  | 60271  | 7.09%   | 0.563% |
| 60 | 13.686 | 1968 | 1972 | 1973 | rBV4 | 10911  | 17332  | 2.04%   | 0.162% |
| 61 | 13.751 | 1978 | 1983 | 1985 | rBV2 | 55118  | 71597  | 8.43%   | 0.668% |
| 62 | 13.774 | 1985 | 1987 | 1990 | rVV  | 47830  | 46387  | 5.46%   | 0.433% |
| 63 | 13.804 | 1990 | 1992 | 1996 | rVV2 | 49696  | 64616  | 7.60%   | 0.603% |
| 64 | 13.845 | 1996 | 1999 | 2003 | rVB  | 61091  | 62187  | 7.32%   | 0.581% |
| 65 | 13.998 | 2020 | 2025 | 2028 | rBV2 | 614526 | 849735 | 100.00% | 7.933% |
| 66 | 14.027 | 2028 | 2030 | 2036 | rVB  | 308304 | 263236 | 30.98%  | 2.458% |
| 67 | 14.086 | 2038 | 2040 | 2041 | rBV2 | 15798  | 13068  | 1.54%   | 0.122% |
| 68 | 14.104 | 2041 | 2043 | 2047 | rBV  | 48721  | 45449  | 5.35%   | 0.424% |
| 69 | 14.139 | 2047 | 2049 | 2052 | rBV  | 26160  | 26454  | 3.11%   | 0.247% |
| 70 | 14.221 | 2060 | 2063 | 2067 | rBV2 | 30649  | 46544  | 5.48%   | 0.435% |
| 71 | 14.386 | 2089 | 2091 | 2094 | rVB  | 60832  | 47613  | 5.60%   | 0.445% |

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF090619\  
Data File : BF116870.D  
Acq On : 6 Sep 2019 20:02  
Operator : HP/JU  
Sample : K4669-01 5X  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TR-05-090519

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

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

Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF083019.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |        |        |        |        |
|----|--------|------|------|------|------|--------|--------|--------|--------|
| 72 | 14.415 | 2094 | 2096 | 2100 | rVB2 | 41781  | 42195  | 4.97%  | 0.394% |
| 73 | 14.510 | 2109 | 2112 | 2114 | rBV2 | 52056  | 49847  | 5.87%  | 0.465% |
| 74 | 14.533 | 2114 | 2116 | 2119 | rVB  | 47266  | 38196  | 4.50%  | 0.357% |
| 75 | 15.033 | 2197 | 2201 | 2205 | rBV  | 249343 | 412911 | 48.59% | 3.855% |
| 76 | 15.145 | 2217 | 2220 | 2223 | rVB  | 56382  | 63237  | 7.44%  | 0.590% |
| 77 | 15.339 | 2249 | 2253 | 2258 | rVB  | 140812 | 187897 | 22.11% | 1.754% |
| 78 | 15.398 | 2259 | 2263 | 2268 | rVB  | 211945 | 257314 | 30.28% | 2.402% |
| 79 | 15.462 | 2269 | 2274 | 2277 | rBV  | 278178 | 377742 | 44.45% | 3.527% |
| 80 | 16.915 | 2516 | 2521 | 2528 | rVB  | 80346  | 161821 | 19.04% | 1.511% |
| 81 | 17.351 | 2593 | 2595 | 2601 | rVB  | 49669  | 77206  | 9.09%  | 0.721% |

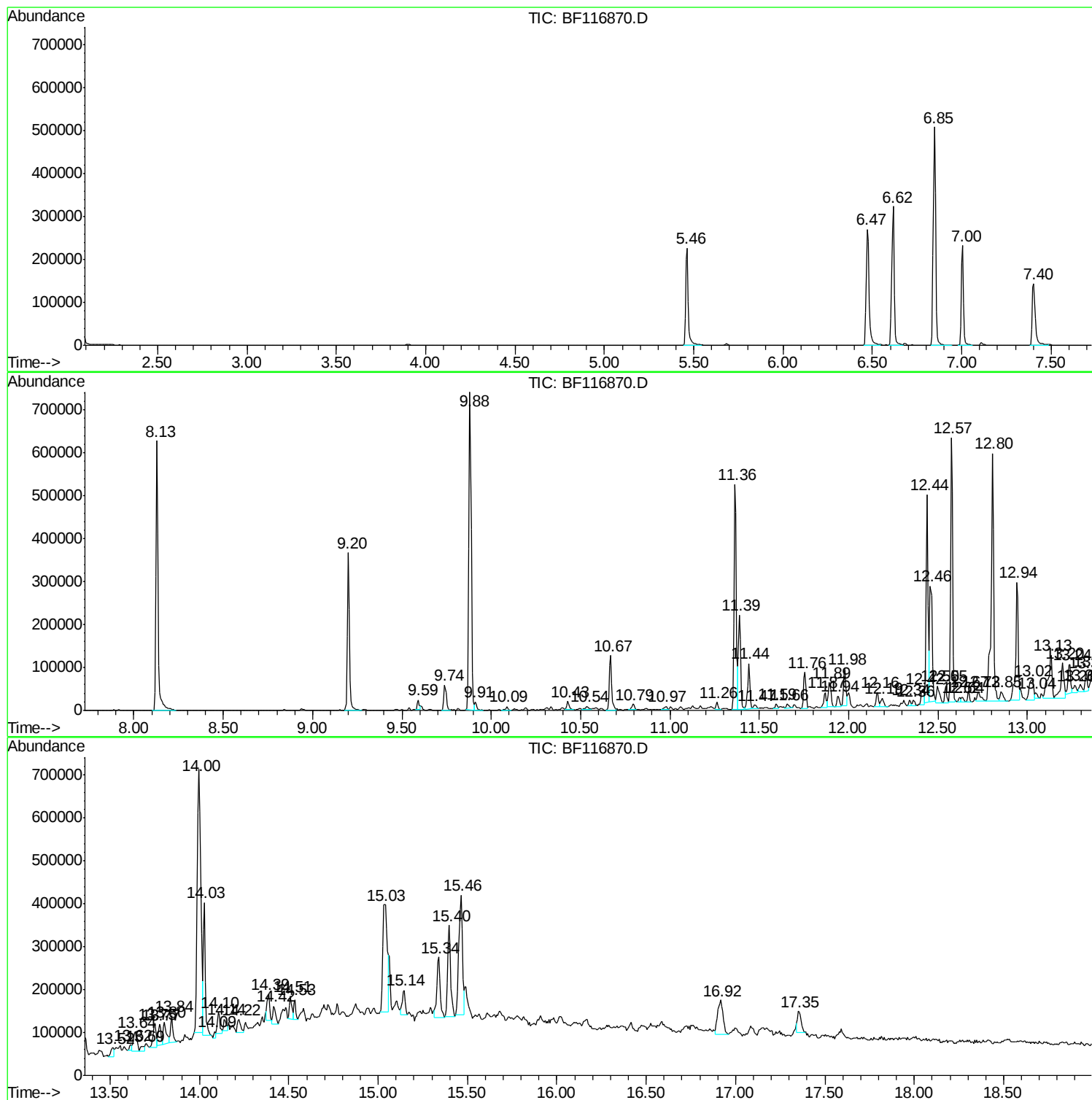
Sum of corrected areas: 10710877

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF090619\  
Data File : BF116870.D  
Acq On : 6 Sep 2019 20:02  
Operator : HP/JU  
Sample : K4669-01 5X  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TR-05-090519

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF083019.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF090619\  
Data File : BF116870.D  
Acq On : 6 Sep 2019 20:02  
Operator : HP/JU  
Sample : K4669-01 5X  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TR-05-090519

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF083019.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

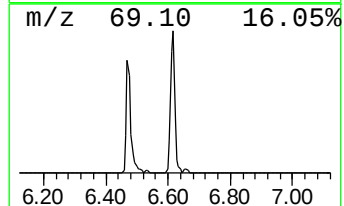
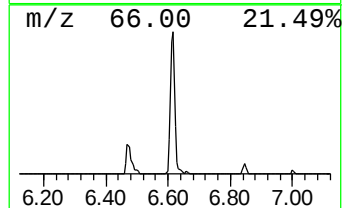
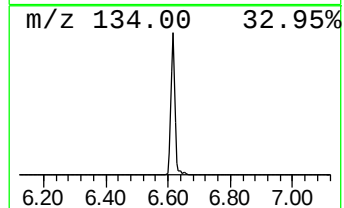
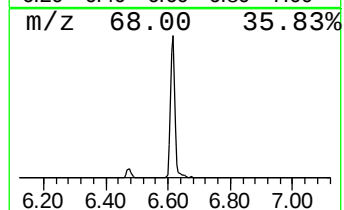
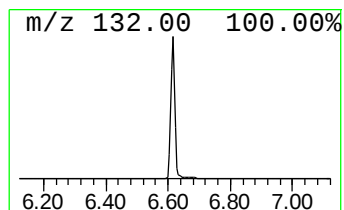
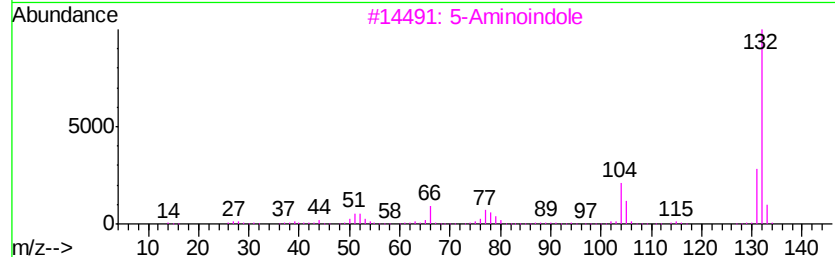
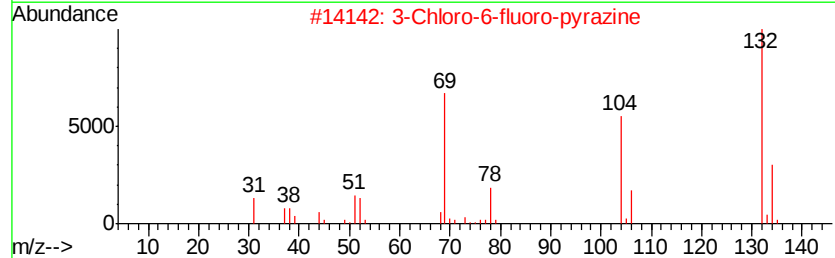
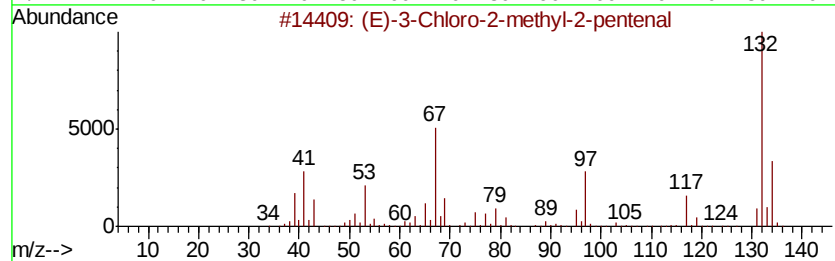
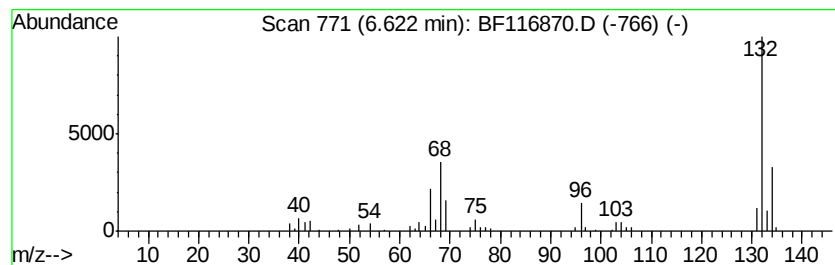
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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

| R.T. | EstConc  | Area   | Relative to ISTD       | R.T. |
|------|----------|--------|------------------------|------|
| 6.62 | 13.44 ng | 290120 | 1,4-Dichlorobenzene-d4 | 6.85 |

| Hit# | of | Tentative ID                     | MW  | MolForm   | CAS#         | Qual |
|------|----|----------------------------------|-----|-----------|--------------|------|
| 1    | 5  | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO   | 031357-76-3  | 25   |
| 2    |    | 3-Chloro-6-fluoro-pyrazine       | 132 | C4H2ClFN2 | 1000146-10-7 | 25   |
| 3    |    | 5-Aminoindole                    | 132 | C8H8N2    | 005192-03-0  | 16   |
| 4    |    | 1H-Benzimidazole, 2-methyl-      | 132 | C8H8N2    | 000615-15-6  | 12   |
| 5    |    | Xenon                            | 132 | Xe        | 007440-63-3  | 9    |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF090619\  
Data File : BF116870.D  
Acq On : 6 Sep 2019 20:02  
Operator : HP/JU  
Sample : K4669-01 5X  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TR-05-090519

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF083019.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

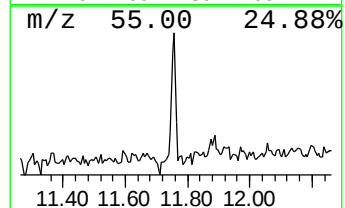
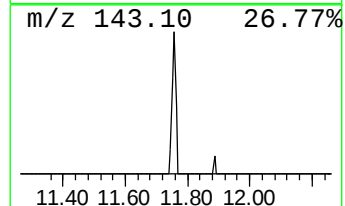
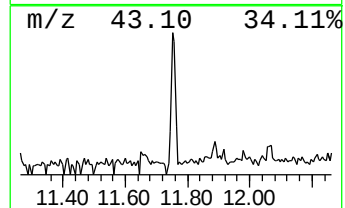
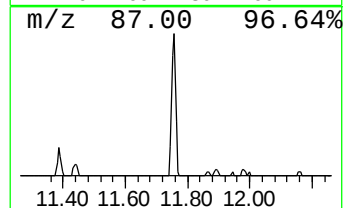
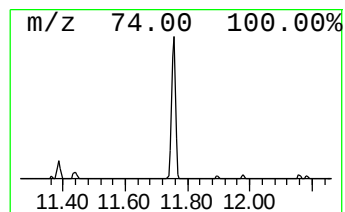
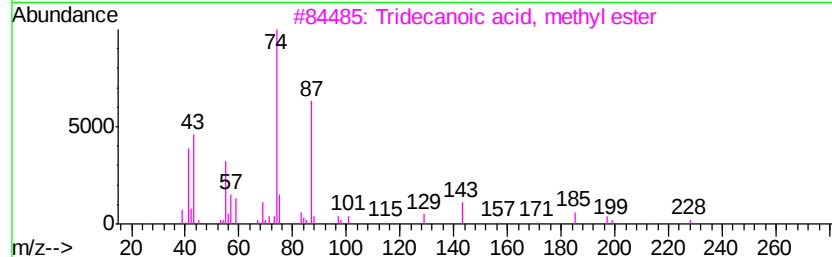
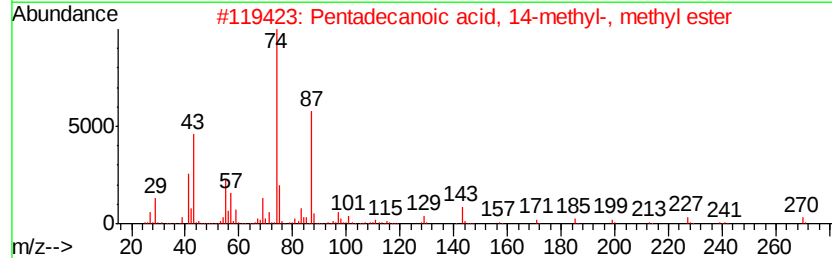
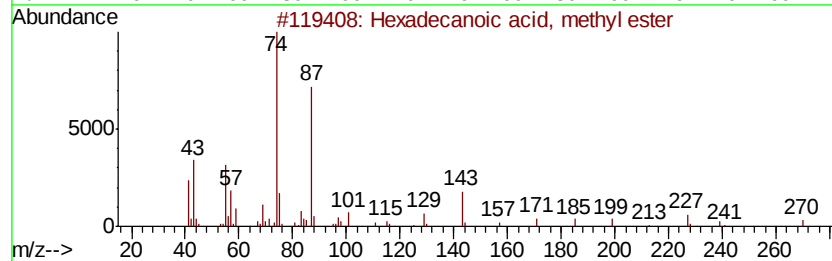
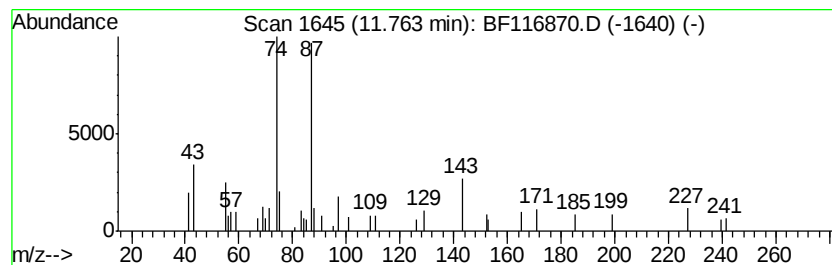
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 Hexadecanoic acid, methyl e... Concentration Rank 9

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 11.76 | 2.81 ng | 71063 | Phenanthrene-d10 | 11.36 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | Hexadecanoic acid, methyl ester     | 270 | C17H34O2 | 000112-39-0 | 98   |
| 2    |    | Pentadecanoic acid, 14-methyl-, ... | 270 | C17H34O2 | 005129-60-2 | 94   |
| 3    |    | Tridecanoic acid, methyl ester      | 228 | C14H28O2 | 001731-88-0 | 93   |
| 4    |    | Pentadecanoic acid, methyl ester    | 256 | C16H32O2 | 007132-64-1 | 80   |
| 5    |    | Methyl 9-methyltetradecanoate       | 256 | C16H32O2 | 213617-69-7 | 80   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF090619\  
Data File : BF116870.D  
Acq On : 6 Sep 2019 20:02  
Operator : HP/JU  
Sample : K4669-01 5X  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

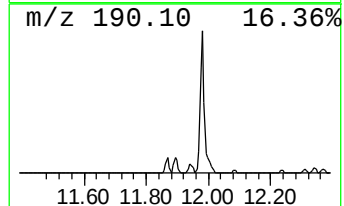
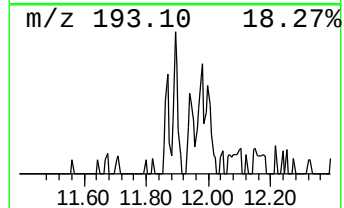
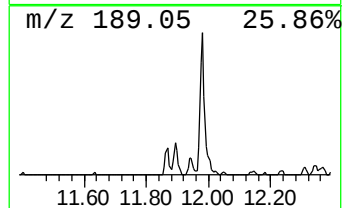
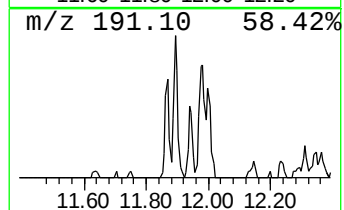
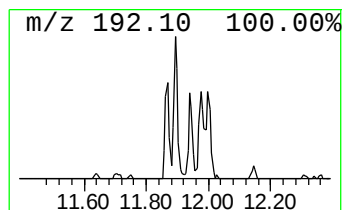
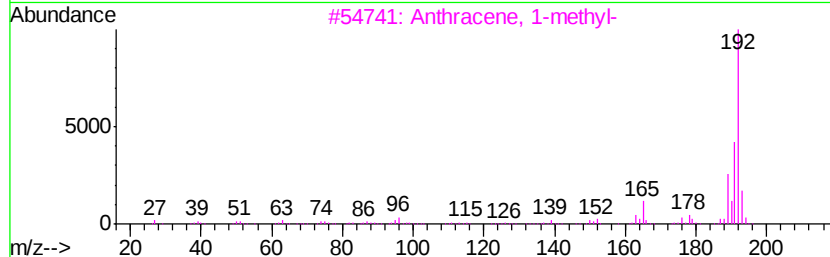
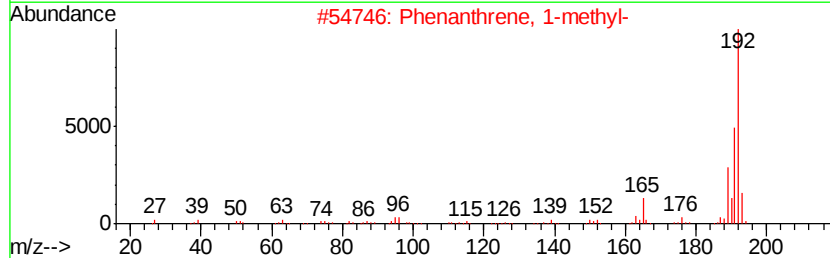
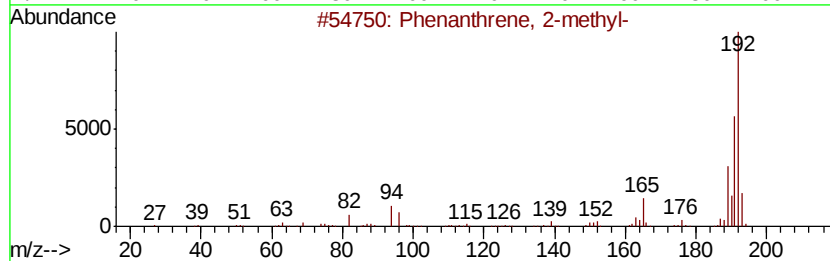
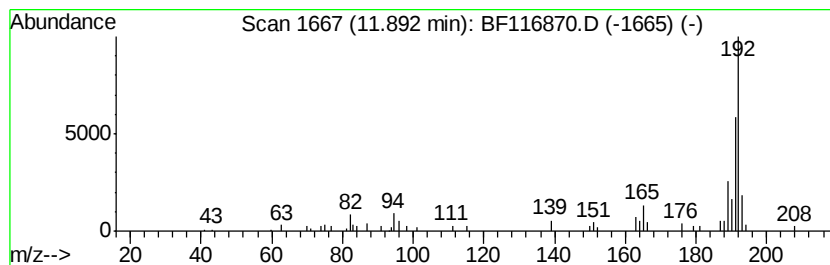
Instrument :  
BNA\_F  
ClientSampleId :  
TR-05-090519

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF083019.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 11

| R.T.  | EstConc | Area  | Relative to ISTD        |     | R.T.    |             |      |
|-------|---------|-------|-------------------------|-----|---------|-------------|------|
| 11.89 | 2.02 ng | 51061 | Phenanthrene-d10        |     | 11.36   |             |      |
| Hit#  | of      | 5     | Tentative ID            | MW  | MolForm | CAS#        | Qual |
| 1     |         |       | Phenanthrene, 2-methyl- | 192 | C15H12  | 002531-84-2 | 95   |
| 2     |         |       | Phenanthrene, 1-methyl- | 192 | C15H12  | 000832-69-9 | 94   |
| 3     |         |       | Anthracene, 1-methyl-   | 192 | C15H12  | 000610-48-0 | 93   |
| 4     |         |       | Anthracene, 2-methyl-   | 192 | C15H12  | 000613-12-7 | 81   |
| 5     |         |       | Anthracene, 9-methyl-   | 192 | C15H12  | 000779-02-2 | 81   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF090619\  
Data File : BF116870.D  
Acq On : 6 Sep 2019 20:02  
Operator : HP/JU  
Sample : K4669-01 5X  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

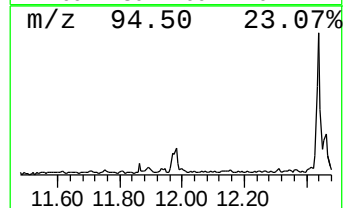
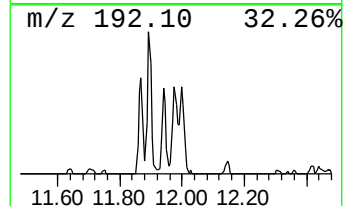
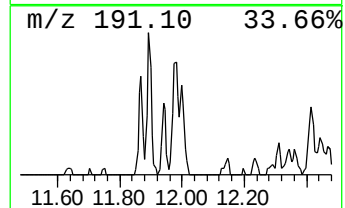
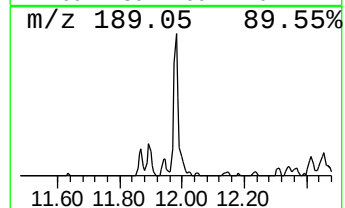
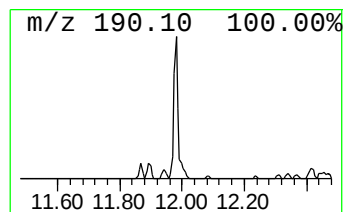
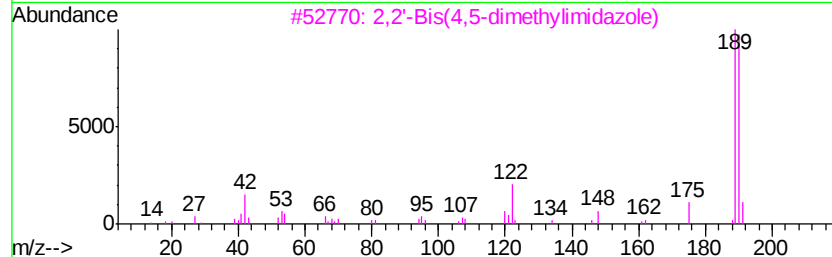
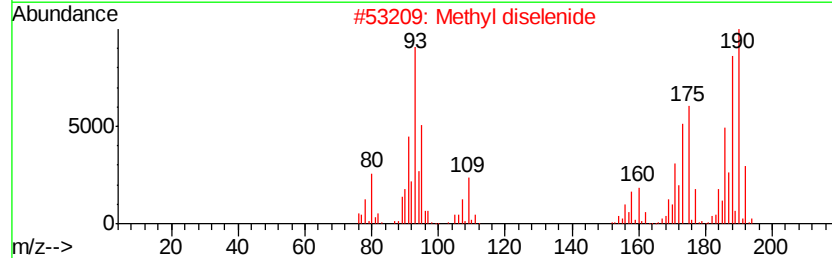
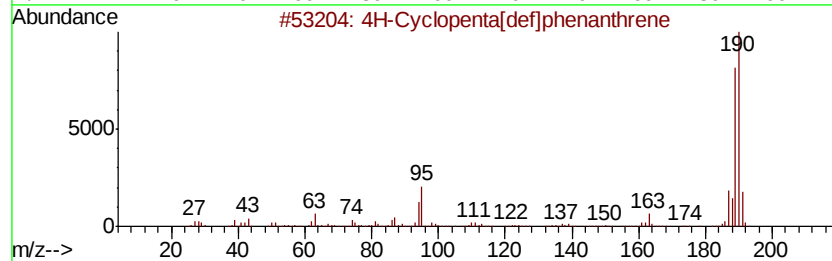
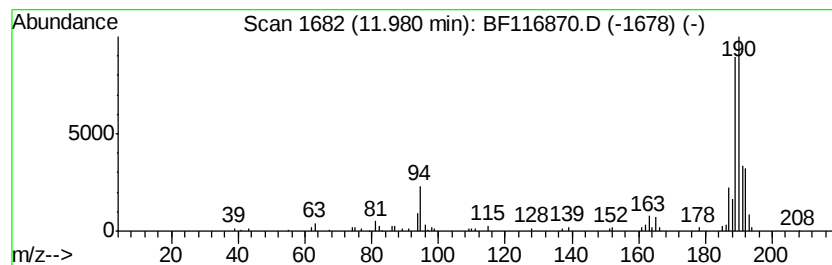
Instrument :  
BNA\_F  
ClientSampleId :  
TR-05-090519

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF083019.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 5 4H-Cyclopenta[def]phenanthrene Concentration Rank 7

| R.T.      | EstConc                             | Area  | Relative to ISTD | R.T.         |      |
|-----------|-------------------------------------|-------|------------------|--------------|------|
| 11.98     | 3.55 ng                             | 89766 | Phenanthrene-d10 | 11.36        |      |
| Hit# of 5 | Tentative ID                        | MW    | MolForm          | CAS#         | Qual |
| 1         | 4H-Cyclopenta[def]phenanthrene      | 190   | C15H10           | 000203-64-5  | 76   |
| 2         | Methyl diselenide                   | 190   | C2H6Se2          | 007101-31-7  | 55   |
| 3         | 2,2'-Bis(4,5-dimethylimidazole)     | 190   | C10H14N4         | 069286-06-2  | 40   |
| 4         | 1,1'-Biphenyl, 4,4'-difluoro-       | 190   | C12H8F2          | 000398-23-2  | 23   |
| 5         | Carbonic acid, 2-formyl-4,6-dich... | 276   | C11H10Cl2O4      | 1000331-39-3 | 17   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF090619\  
Data File : BF116870.D  
Acq On : 6 Sep 2019 20:02  
Operator : HP/JU  
Sample : K4669-01 5X  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

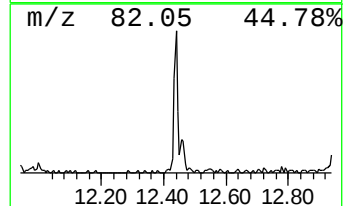
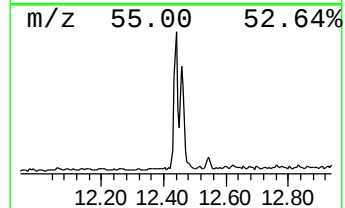
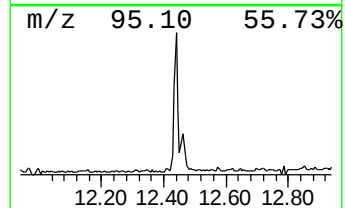
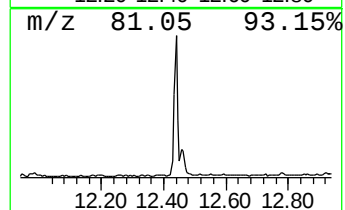
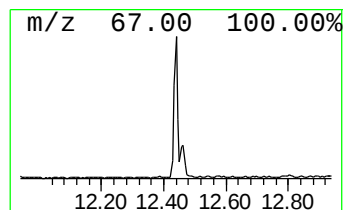
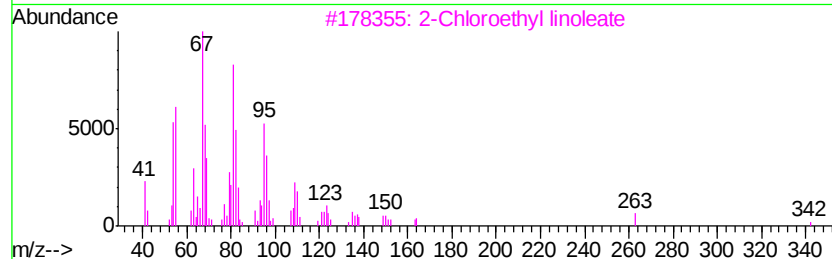
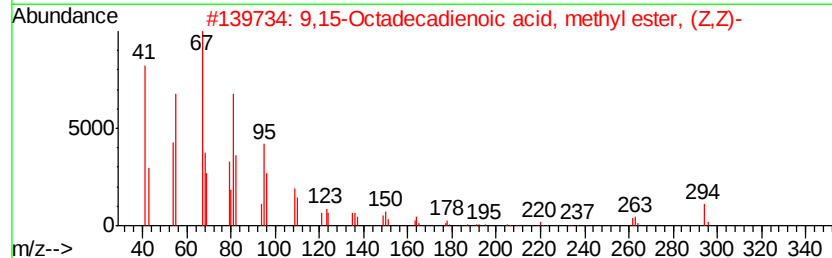
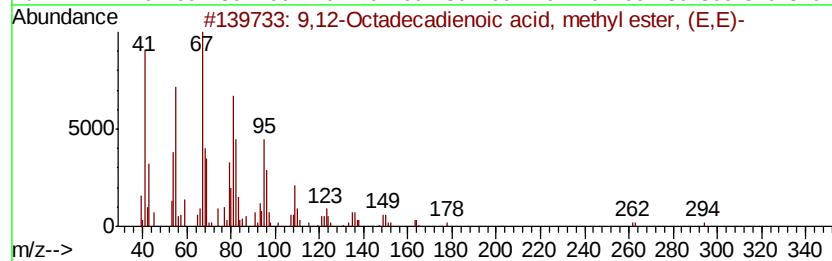
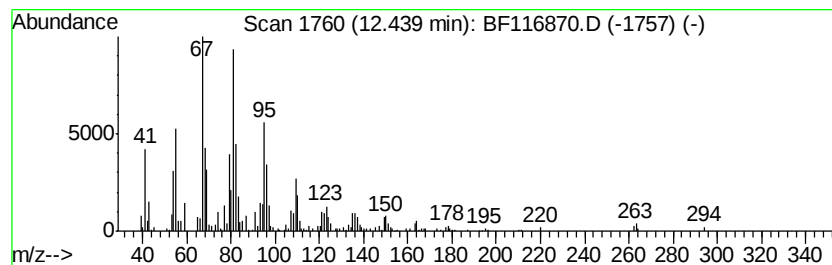
Instrument :  
BNA\_F  
ClientSampleId :  
TR-05-090519

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF083019.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 6 9,12-Octadecadienoic acid, ... Concentration Rank 1

| R.T.    | EstConc                             | Area         | Relative to ISTD | R.T.        |      |      |
|---------|-------------------------------------|--------------|------------------|-------------|------|------|
| 12.44   | 16.39 ng                            | 413872       | Phenanthrene-d10 | 11.36       |      |      |
| Hit# of | 5                                   | Tentative ID | MW               | MolForm     | CAS# | Qual |
| 1       | 9,12-Octadecadienoic acid, methy... | 294          | C19H34O2         | 002566-97-4 | 99   |      |
| 2       | 9,15-Octadecadienoic acid, methy... | 294          | C19H34O2         | 017309-05-6 | 98   |      |
| 3       | 2-Chloroethyl linoleate             | 342          | C20H35ClO2       | 025525-76-2 | 91   |      |
| 4       | 12,15-Octadecadienoic acid, meth... | 294          | C19H34O2         | 057156-97-5 | 90   |      |
| 5       | 9,12-Octadecadienoic acid (Z,Z)-... | 294          | C19H34O2         | 000112-63-0 | 90   |      |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF090619\  
 Data File : BF116870.D  
 Acq On : 6 Sep 2019 20:02  
 Operator : HP/JU  
 Sample : K4669-01 5X  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TR-05-090519

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF083019.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

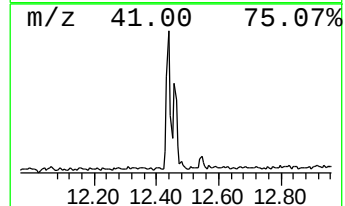
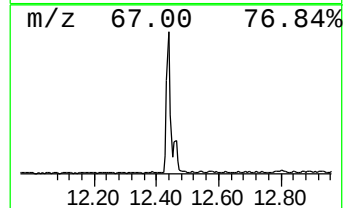
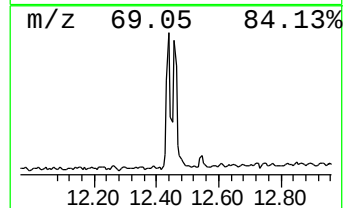
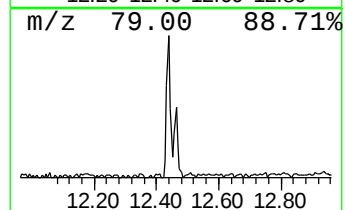
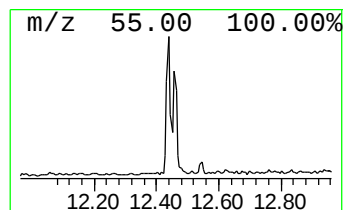
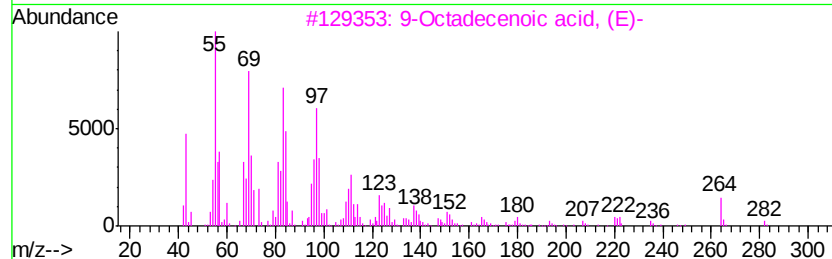
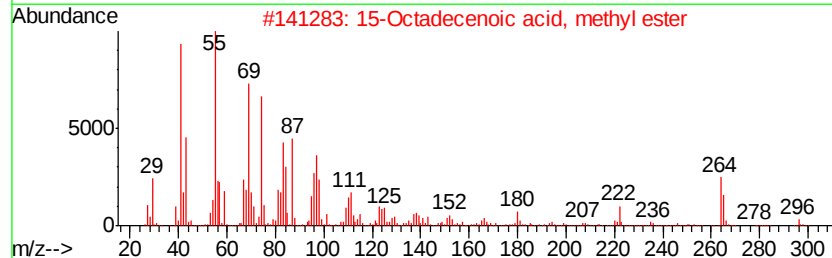
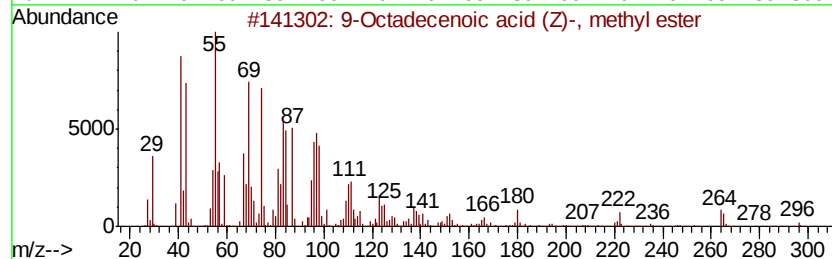
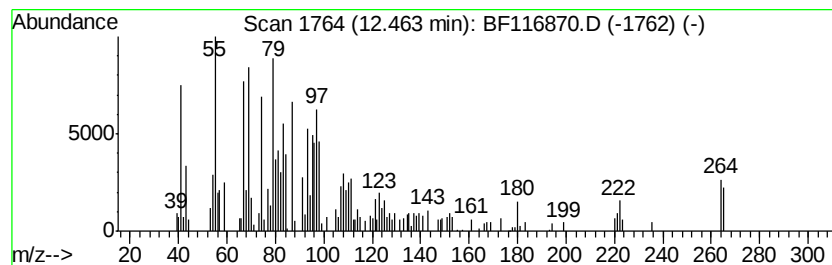
TIC Library : C:\DATABASE\NIST11.L  
 TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
 Peak Number 7 9-Octadecenoic acid (Z)-, m... Concentration Rank 5

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 12.46 | 8.86 ng | 223689 | Phenanthrene-d10 | 11.36 |

| Hit# of | 5 | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|---------|---|-------------------------------------|-----|----------|--------------|------|
| 1       |   | 9-Octadecenoic acid (Z)-, methyl... | 296 | C19H36O2 | 000112-62-9  | 95   |
| 2       |   | 15-Octadecenoic acid, methyl ester  | 296 | C19H36O2 | 004764-72-1  | 76   |
| 3       |   | 9-Octadecenoic acid, (E)-           | 282 | C18H34O2 | 000112-79-8  | 74   |
| 4       |   | trans-13-Octadecenoic acid, meth... | 296 | C19H36O2 | 1000333-61-3 | 70   |
| 5       |   | 10-Octadecenoic acid, methyl ester  | 296 | C19H36O2 | 013481-95-3  | 64   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF090619\  
Data File : BF116870.D  
Acq On : 6 Sep 2019 20:02  
Operator : HP/JU  
Sample : K4669-01 5X  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TR-05-090519

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF083019.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

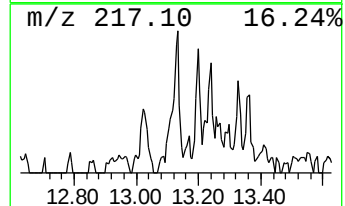
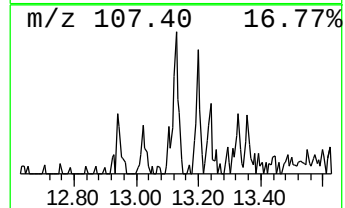
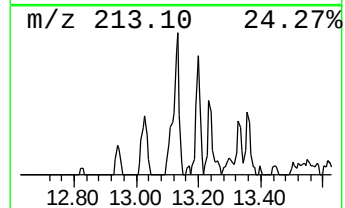
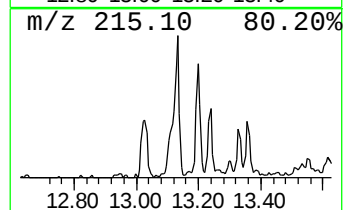
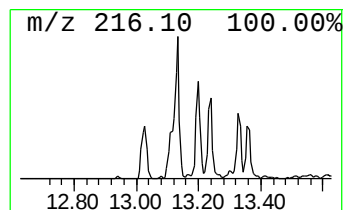
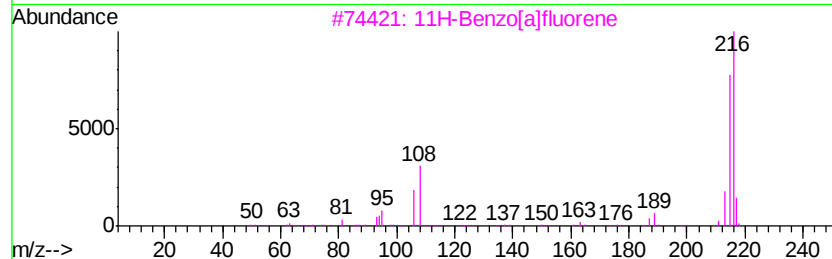
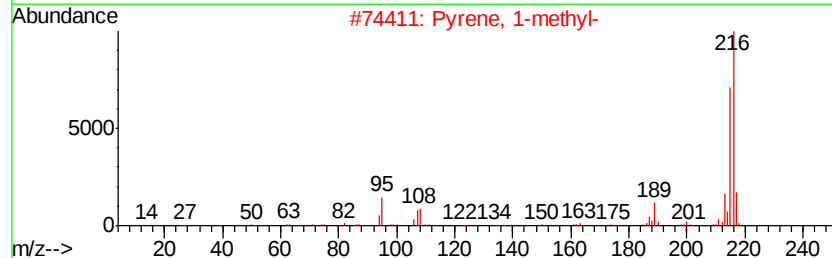
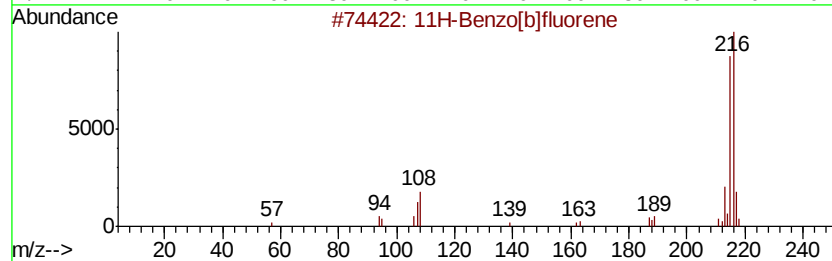
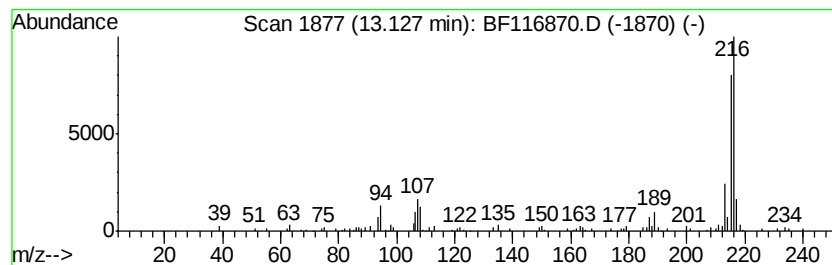
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 8 11H-Benzo[a]fluorene Concentration Rank 6

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 13.13 | 3.72 ng | 158082 | Chrysene-d12     | 14.00 |

| Hit# of | 5 | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|---------|---|-------------------------|-----|---------|-------------|------|
| 1       |   | 11H-Benzo[b]fluorene    | 216 | C17H12  | 000243-17-4 | 91   |
| 2       |   | Pyrene, 1-methyl-       | 216 | C17H12  | 002381-21-7 | 90   |
| 3       |   | 11H-Benzo[a]fluorene    | 216 | C17H12  | 000238-84-6 | 90   |
| 4       |   | 7H-Benzo[c]fluorene     | 216 | C17H12  | 000205-12-9 | 87   |
| 5       |   | Fluoranthene, 2-methyl- | 216 | C17H12  | 033543-31-6 | 76   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF090619\  
Data File : BF116870.D  
Acq On : 6 Sep 2019 20:02  
Operator : HP/JU  
Sample : K4669-01 5X  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TR-05-090519

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF083019.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

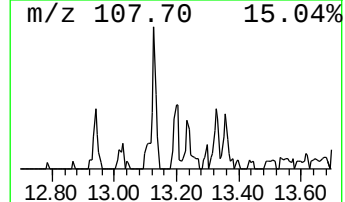
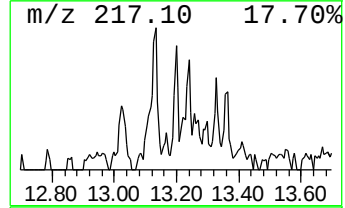
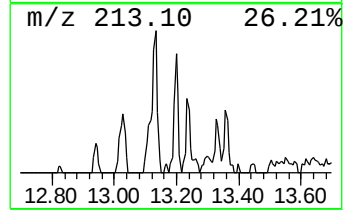
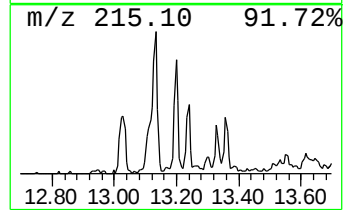
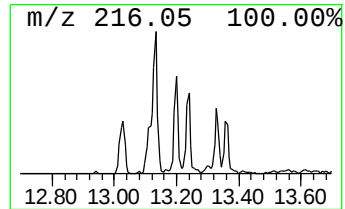
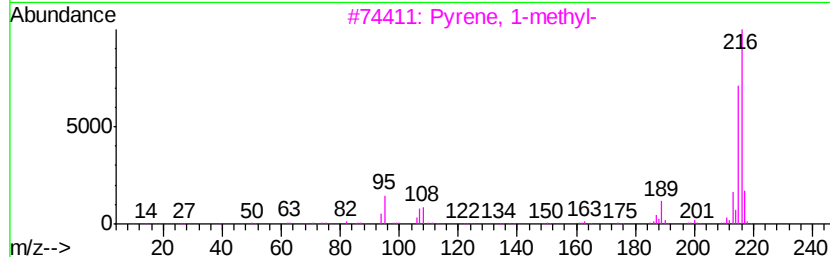
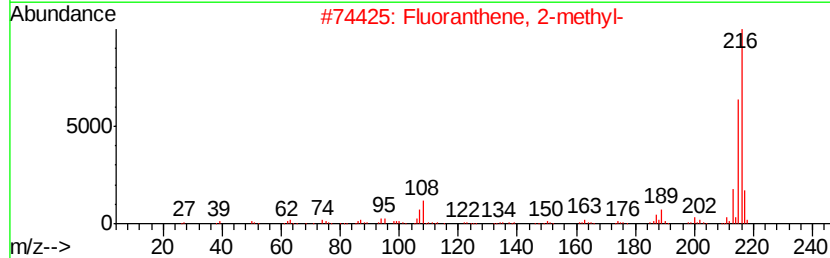
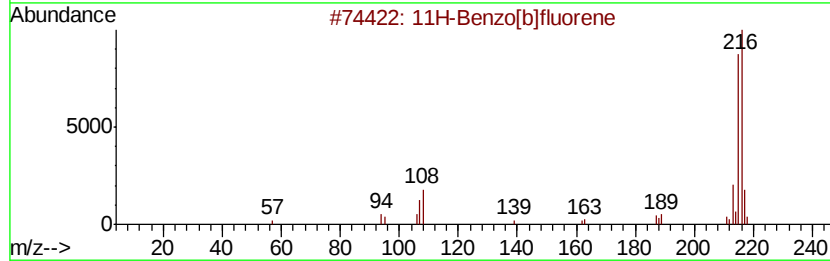
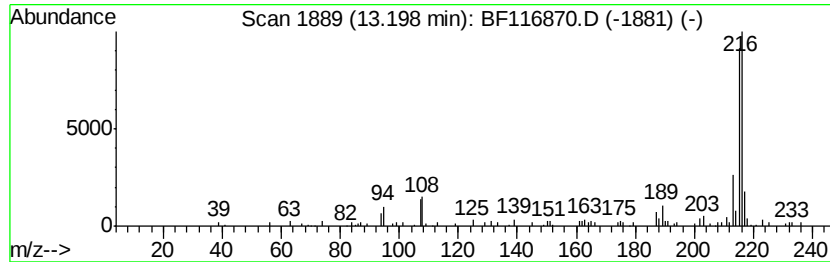
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 9 11H-Benzo[b]fluorene Concentration Rank 10

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 13.20 | 2.47 ng | 105127 | Chrysene-d12     | 14.00 |

| Hit# of | 5 | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|---------|---|-------------------------|-----|---------|-------------|------|
| 1       |   | 11H-Benzo[b]fluorene    | 216 | C17H12  | 000243-17-4 | 96   |
| 2       |   | Fluoranthene, 2-methyl- | 216 | C17H12  | 033543-31-6 | 95   |
| 3       |   | Pvrene, 1-methyl-       | 216 | C17H12  | 002381-21-7 | 93   |
| 4       |   | 7H-Benzo[c]fluorene     | 216 | C17H12  | 000205-12-9 | 83   |
| 5       |   | 11H-Benzo[a]fluorene    | 216 | C17H12  | 000238-84-6 | 83   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF090619\  
Data File : BF116870.D  
Acq On : 6 Sep 2019 20:02  
Operator : HP/JU  
Sample : K4669-01 5X  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TR-05-090519

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF083019.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

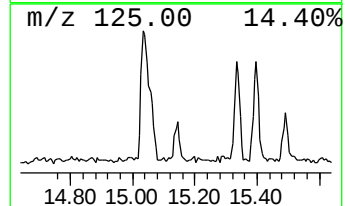
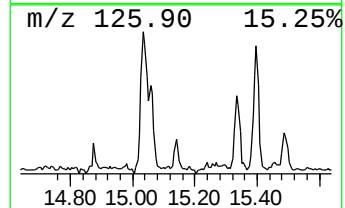
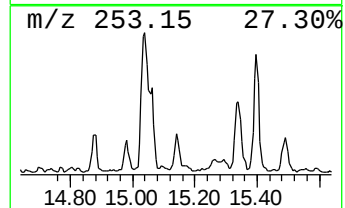
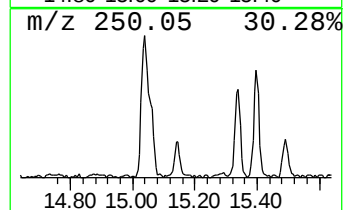
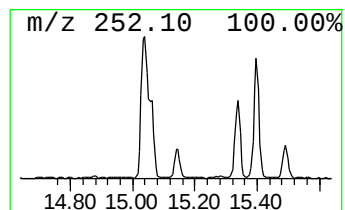
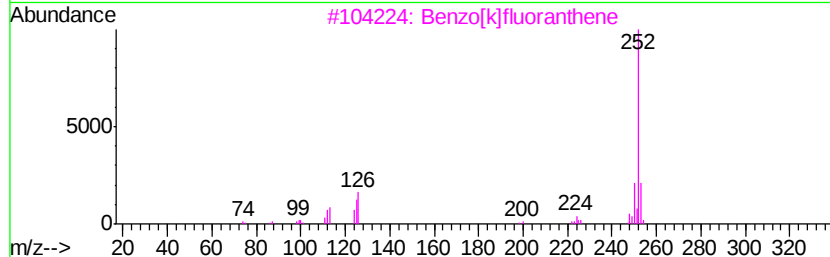
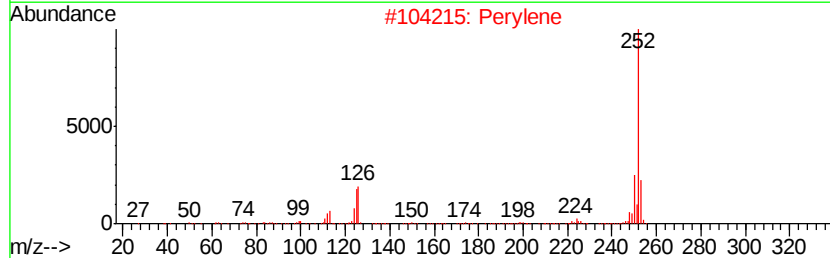
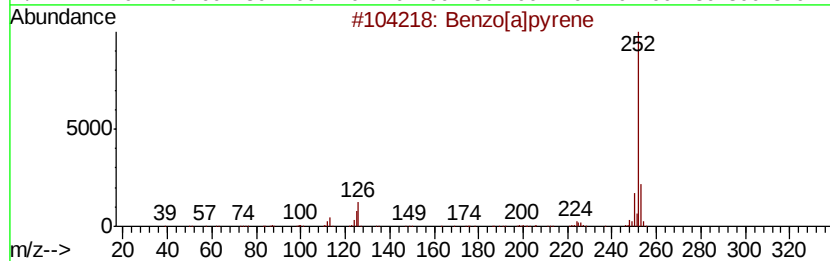
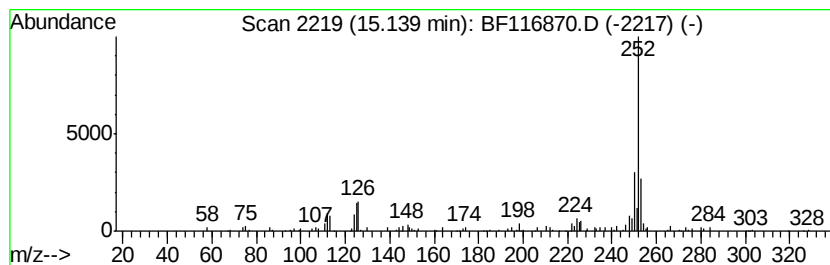
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 10 Perylene Concentration Rank 8

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 15.14 | 3.35 ng | 63237 | Perylene-d12     | 15.46 |

| Hit# | of | Tentative ID              | MW  | MolForm | CAS#        | Qual |
|------|----|---------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzo[a]pyrene            | 252 | C20H12  | 000050-32-8 | 90   |
| 2    |    | Perylene                  | 252 | C20H12  | 000198-55-0 | 89   |
| 3    |    | Benzo[k]fluoranthene      | 252 | C20H12  | 000207-08-9 | 89   |
| 4    |    | Benzo[e]acephenanthrylene | 252 | C20H12  | 000205-99-2 | 81   |
| 5    |    | Benzo[e]pyrene            | 252 | C20H12  | 000192-97-2 | 81   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF090619\  
Data File : BF116870.D  
Acq On : 6 Sep 2019 20:02  
Operator : HP/JU  
Sample : K4669-01 5X  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TR-05-090519

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF083019.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

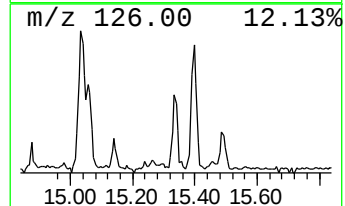
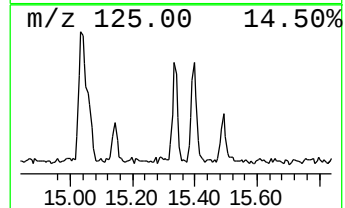
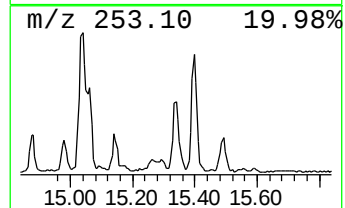
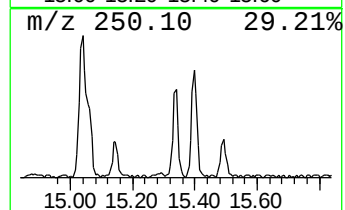
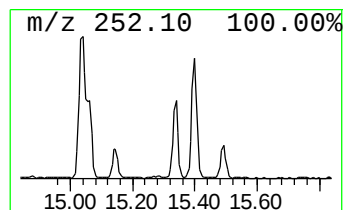
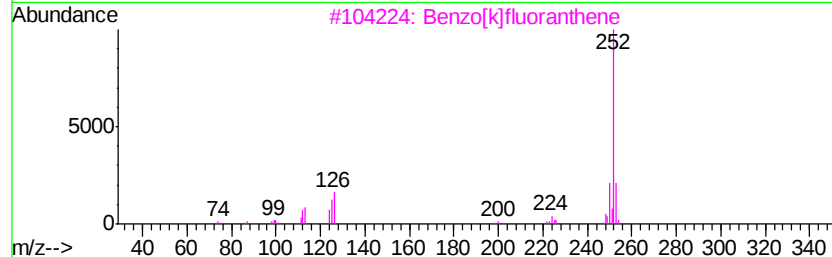
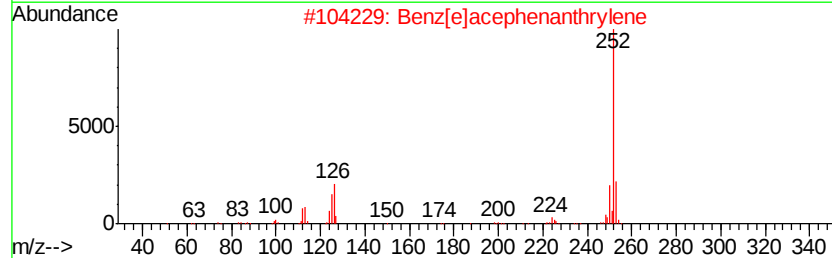
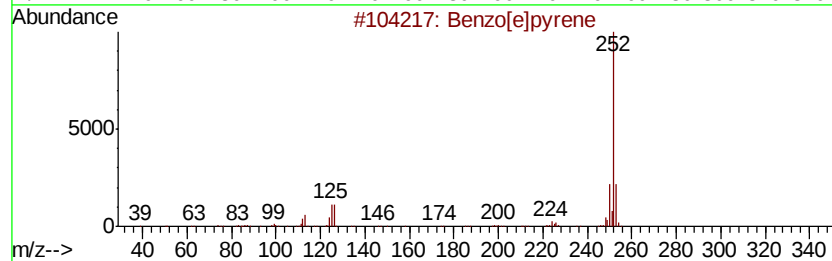
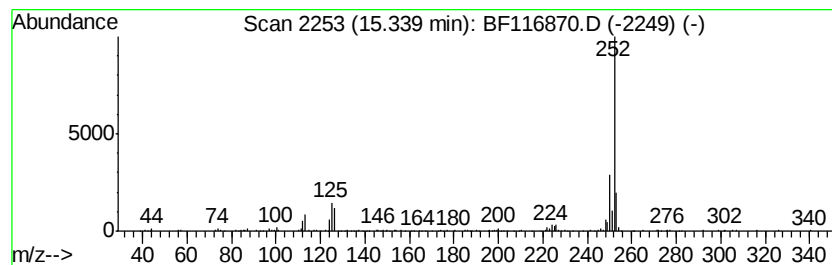
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 11 Benzo[e]pyrene Concentration Rank 3

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 15.34 | 9.95 ng | 187897 | Perylene-d12     | 15.46 |

| Hit# | of | Tentative ID             | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzo[e]pyrene           | 252 | C20H12  | 000192-97-2 | 98   |
| 2    |    | Benz[e]acephenanthrylene | 252 | C20H12  | 000205-99-2 | 95   |
| 3    |    | Benzo[k]fluoranthene     | 252 | C20H12  | 000207-08-9 | 93   |
| 4    |    | Perylene                 | 252 | C20H12  | 000198-55-0 | 91   |
| 5    |    | Benzo[a]pyrene           | 252 | C20H12  | 000050-32-8 | 86   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF090619\  
Data File : BF116870.D  
Acq On : 6 Sep 2019 20:02  
Operator : HP/JU  
Sample : K4669-01 5X  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TR-05-090519

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF083019.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  | 13.4    | ng    | 290120   | 1                     | 6.85  | 431628 | 20.0 |
| Hexadecanoic acid... | 11.76 | 2.8     | ng    | 71063    | 4                     | 11.36 | 505149 | 20.0 |
| Phenanthrene, 2-m... | 11.89 | 2.0     | ng    | 51061    | 4                     | 11.36 | 505149 | 20.0 |
| 4H-Cyclopenta[def... | 11.98 | 3.5     | ng    | 89766    | 4                     | 11.36 | 505149 | 20.0 |
| 9,12-Octadecadien... | 12.44 | 16.4    | ng    | 413872   | 4                     | 11.36 | 505149 | 20.0 |
| 9-Octadecenoic ac... | 12.46 | 8.9     | ng    | 223689   | 4                     | 11.36 | 505149 | 20.0 |
| 11H-Benzo[a]fluorene | 13.13 | 3.7     | ng    | 158082   | 5                     | 14.00 | 849735 | 20.0 |
| 11H-Benzo[b]fluorene | 13.20 | 2.5     | ng    | 105127   | 5                     | 14.00 | 849735 | 20.0 |
| Perylene             | 15.14 | 3.4     | ng    | 63237    | 6                     | 15.46 | 377742 | 20.0 |
| Benzo[e]pyrene       | 15.34 | 9.9     | ng    | 187897   | 6                     | 15.46 | 377742 | 20.0 |