

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF081618\  
 Data File : BF108214.D  
 Acq On : 17 Aug 2018 00:03  
 Operator : JU/SJ  
 Sample : J4483-02 5X  
 Misc :  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TOD1-IB-0-4

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-BF080818.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         | 5.242       | 490           | 494         | 499          | rBV      | 158565         | 156270        | 8.46%           | 0.685%        |
| 2         | 5.637       | 557           | 561         | 570          | rBV      | 742036         | 734824        | 39.77%          | 3.222%        |
| 3         | 6.625       | 725           | 729         | 742          | rBV      | 906702         | 764503        | 41.38%          | 3.352%        |
| 4         | 6.778       | 752           | 755         | 759          | rBV      | 835538         | 778900        | 42.16%          | 3.415%        |
| 5         | 7.013       | 792           | 795         | 799          | rBV      | 1035885        | 935465        | 50.63%          | 4.101%        |
| 6         | 7.172       | 818           | 822         | 825          | rBV      | 628596         | 535159        | 28.97%          | 2.346%        |
| 7         | 7.572       | 886           | 890         | 899          | rBV      | 574625         | 478667        | 25.91%          | 2.099%        |
| 8         | 8.301       | 1010          | 1014        | 1017         | rBV      | 1323183        | 1141606       | 61.79%          | 5.005%        |
| 9         | 9.372       | 1192          | 1196        | 1206         | rBV      | 731036         | 657142        | 35.57%          | 2.881%        |
| 10        | 9.760       | 1260          | 1262        | 1269         | rVB      | 59467          | 46906         | 2.54%           | 0.206%        |
| 11        | 10.060      | 1309          | 1313        | 1317         | rBV2     | 1392038        | 1203112       | 65.12%          | 5.275%        |
| 12        | 10.095      | 1317          | 1319        | 1321         | rVB      | 44042          | 35377         | 1.91%           | 0.155%        |
| 13        | 10.213      | 1334          | 1339        | 1344         | rVB2     | 17902          | 19574         | 1.06%           | 0.086%        |
| 14        | 10.466      | 1378          | 1382        | 1384         | rBV2     | 15697          | 20185         | 1.09%           | 0.088%        |
| 15        | 10.607      | 1403          | 1406        | 1410         | rBV      | 39198          | 42585         | 2.30%           | 0.187%        |
| 16        | 10.766      | 1431          | 1433        | 1438         | rVB2     | 24032          | 23783         | 1.29%           | 0.104%        |
| 17        | 10.848      | 1444          | 1447        | 1454         | rBV      | 414401         | 421093        | 22.79%          | 1.846%        |
| 18        | 11.160      | 1493          | 1500        | 1502         | rBV3     | 42414          | 53439         | 2.89%           | 0.234%        |
| 19        | 11.189      | 1502          | 1505        | 1507         | rVB2     | 29382          | 26522         | 1.44%           | 0.116%        |
| 20        | 11.242      | 1512          | 1514        | 1517         | rVB      | 24782          | 20819         | 1.13%           | 0.091%        |
| 21        | 11.283      | 1517          | 1521        | 1523         | rBV3     | 24179          | 37118         | 2.01%           | 0.163%        |
| 22        | 11.307      | 1523          | 1525        | 1530         | rVV2     | 27701          | 33543         | 1.82%           | 0.147%        |
| 23        | 11.354      | 1530          | 1533        | 1536         | rVV4     | 23367          | 26734         | 1.45%           | 0.117%        |
| 24        | 11.395      | 1536          | 1540        | 1548         | rVV4     | 28868          | 59849         | 3.24%           | 0.262%        |
| 25        | 11.454      | 1548          | 1550        | 1557         | rVB2     | 33698          | 36746         | 1.99%           | 0.161%        |
| 26        | 11.554      | 1564          | 1567        | 1570         | rBV      | 1266052        | 1274740       | 68.99%          | 5.589%        |
| 27        | 11.577      | 1570          | 1571        | 1575         | rVV      | 711416         | 569534        | 30.83%          | 2.497%        |
| 28        | 11.630      | 1577          | 1580        | 1583         | rVV      | 204864         | 172796        | 9.35%           | 0.758%        |
| 29        | 11.660      | 1583          | 1585        | 1588         | rVV3     | 23078          | 29172         | 1.58%           | 0.128%        |
| 30        | 11.707      | 1591          | 1593        | 1599         | rVV5     | 13683          | 24259         | 1.31%           | 0.106%        |
| 31        | 11.795      | 1603          | 1608        | 1611         | rBV5     | 17273          | 32462         | 1.76%           | 0.142%        |
| 32        | 11.848      | 1615          | 1617        | 1619         | rVV      | 43481          | 30181         | 1.63%           | 0.132%        |
| 33        | 11.889      | 1619          | 1624        | 1629         | rVB3     | 30997          | 36776         | 1.99%           | 0.161%        |
| 34        | 11.966      | 1635          | 1637        | 1642         | rBV2     | 17803          | 21519         | 1.16%           | 0.094%        |

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 Sample : J4483-02 5X  
 Misc :  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TOD1-IB-0-4

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-BF080818.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 35 | 12.060 | 1649 | 1653 | 1655 | rBV  | 225898  | 196604  | 10.64% | 0.862% |
| 36 | 12.089 | 1655 | 1658 | 1662 | rVV  | 251910  | 238592  | 12.91% | 1.046% |
| 37 | 12.136 | 1662 | 1666 | 1668 | rVV  | 96662   | 89108   | 4.82%  | 0.391% |
| 38 | 12.171 | 1668 | 1672 | 1674 | rVV2 | 259068  | 304354  | 16.47% | 1.334% |
| 39 | 12.195 | 1674 | 1676 | 1680 | rVB  | 171442  | 136889  | 7.41%  | 0.600% |
| 40 | 12.354 | 1699 | 1703 | 1705 | rBV  | 143559  | 119967  | 6.49%  | 0.526% |
| 41 | 12.377 | 1705 | 1707 | 1710 | rVV2 | 44461   | 41879   | 2.27%  | 0.184% |
| 42 | 12.430 | 1713 | 1716 | 1718 | rBV  | 32890   | 23712   | 1.28%  | 0.104% |
| 43 | 12.501 | 1722 | 1728 | 1731 | rBV  | 74405   | 76058   | 4.12%  | 0.333% |
| 44 | 12.536 | 1731 | 1734 | 1736 | rVV  | 52381   | 46172   | 2.50%  | 0.202% |
| 45 | 12.560 | 1736 | 1738 | 1740 | rVB  | 40992   | 31202   | 1.69%  | 0.137% |
| 46 | 12.607 | 1743 | 1746 | 1749 | rBV  | 131582  | 153863  | 8.33%  | 0.675% |
| 47 | 12.648 | 1749 | 1753 | 1758 | rVV2 | 81481   | 149857  | 8.11%  | 0.657% |
| 48 | 12.695 | 1758 | 1761 | 1767 | rVV2 | 81987   | 112349  | 6.08%  | 0.493% |
| 49 | 12.777 | 1771 | 1775 | 1778 | rVV  | 1184383 | 1006440 | 54.47% | 4.412% |
| 50 | 12.813 | 1778 | 1781 | 1783 | rVV2 | 46652   | 42696   | 2.31%  | 0.187% |
| 51 | 12.836 | 1783 | 1785 | 1788 | rVV2 | 60774   | 52521   | 2.84%  | 0.230% |
| 52 | 12.901 | 1792 | 1796 | 1798 | rBV3 | 31510   | 41281   | 2.23%  | 0.181% |
| 53 | 12.930 | 1798 | 1801 | 1803 | rVV  | 48537   | 53106   | 2.87%  | 0.233% |
| 54 | 12.989 | 1807 | 1811 | 1812 | rBV2 | 223030  | 226185  | 12.24% | 0.992% |
| 55 | 13.007 | 1812 | 1814 | 1819 | rVV  | 1158334 | 1069299 | 57.88% | 4.688% |
| 56 | 13.054 | 1819 | 1822 | 1826 | rVB2 | 73807   | 79592   | 4.31%  | 0.349% |
| 57 | 13.136 | 1831 | 1836 | 1839 | rBV  | 809779  | 756060  | 40.92% | 3.315% |
| 58 | 13.160 | 1839 | 1840 | 1844 | rVB  | 40545   | 33601   | 1.82%  | 0.147% |
| 59 | 13.230 | 1846 | 1852 | 1858 | rBV4 | 89985   | 162917  | 8.82%  | 0.714% |
| 60 | 13.313 | 1862 | 1866 | 1867 | rBV4 | 67475   | 83245   | 4.51%  | 0.365% |
| 61 | 13.330 | 1867 | 1869 | 1873 | rVB  | 176242  | 170073  | 9.21%  | 0.746% |
| 62 | 13.401 | 1876 | 1881 | 1884 | rBV2 | 148892  | 152312  | 8.24%  | 0.668% |
| 63 | 13.442 | 1884 | 1888 | 1890 | rBV2 | 126023  | 138287  | 7.48%  | 0.606% |
| 64 | 13.465 | 1890 | 1892 | 1894 | rVV  | 55397   | 43034   | 2.33%  | 0.189% |
| 65 | 13.495 | 1894 | 1897 | 1901 | rVB4 | 29306   | 31179   | 1.69%  | 0.137% |
| 66 | 13.536 | 1901 | 1904 | 1906 | rBV  | 87204   | 84772   | 4.59%  | 0.372% |
| 67 | 13.565 | 1906 | 1909 | 1912 | rVB  | 98751   | 86950   | 4.71%  | 0.381% |
| 68 | 13.648 | 1920 | 1923 | 1927 | rVB3 | 36621   | 36352   | 1.97%  | 0.159% |
| 69 | 13.760 | 1940 | 1942 | 1945 | rBV2 | 19076   | 20482   | 1.11%  | 0.090% |
| 70 | 13.818 | 1949 | 1952 | 1954 | rBV3 | 58078   | 67732   | 3.67%  | 0.297% |
| 71 | 13.842 | 1954 | 1956 | 1961 | rVB  | 67878   | 78509   | 4.25%  | 0.344% |

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 Sample : J4483-02 5X  
 Misc :  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TOD1-IB-0-4

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-BF080818.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |         |        |
|----|--------|------|------|------|------|---------|---------|---------|--------|
| 72 | 13.960 | 1970 | 1976 | 1978 | rBV3 | 78034   | 113595  | 6.15%   | 0.498% |
| 73 | 13.983 | 1978 | 1980 | 1983 | rVV  | 115599  | 112062  | 6.07%   | 0.491% |
| 74 | 14.024 | 1983 | 1987 | 1989 | rVV2 | 85959   | 147404  | 7.98%   | 0.646% |
| 75 | 14.048 | 1989 | 1991 | 1999 | rVB2 | 89322   | 128433  | 6.95%   | 0.563% |
| 76 | 14.130 | 2000 | 2005 | 2009 | rBV2 | 28044   | 51883   | 2.81%   | 0.227% |
| 77 | 14.212 | 2013 | 2019 | 2021 | rVV2 | 1468945 | 1847587 | 100.00% | 8.100% |
| 78 | 14.236 | 2021 | 2023 | 2031 | rVB  | 543065  | 486505  | 26.33%  | 2.133% |
| 79 | 14.318 | 2034 | 2037 | 2042 | rBV  | 81173   | 94690   | 5.13%   | 0.415% |
| 80 | 14.465 | 2059 | 2062 | 2065 | rBV4 | 48425   | 55569   | 3.01%   | 0.244% |
| 81 | 14.595 | 2082 | 2084 | 2087 | rVB  | 111863  | 83386   | 4.51%   | 0.366% |
| 82 | 14.630 | 2087 | 2090 | 2092 | rBV2 | 80491   | 77260   | 4.18%   | 0.339% |
| 83 | 14.677 | 2095 | 2098 | 2100 | rBV3 | 39904   | 51627   | 2.79%   | 0.226% |
| 84 | 14.730 | 2104 | 2107 | 2108 | rBV  | 60530   | 55542   | 3.01%   | 0.244% |
| 85 | 14.754 | 2108 | 2111 | 2115 | rBV3 | 63911   | 72117   | 3.90%   | 0.316% |
| 86 | 15.136 | 2174 | 2176 | 2181 | rVB5 | 58011   | 66274   | 3.59%   | 0.291% |
| 87 | 15.301 | 2200 | 2204 | 2207 | rBV  | 219252  | 343433  | 18.59%  | 1.506% |
| 88 | 15.342 | 2207 | 2211 | 2216 | rVB3 | 191619  | 305555  | 16.54%  | 1.340% |
| 89 | 15.418 | 2221 | 2224 | 2230 | rVB  | 44211   | 55785   | 3.02%   | 0.245% |
| 90 | 15.483 | 2233 | 2235 | 2239 | rBV3 | 29637   | 46558   | 2.52%   | 0.204% |
| 91 | 15.636 | 2257 | 2261 | 2267 | rVB  | 134330  | 173426  | 9.39%   | 0.760% |
| 92 | 15.701 | 2268 | 2272 | 2277 | rVB  | 208081  | 264421  | 14.31%  | 1.159% |
| 93 | 15.771 | 2278 | 2284 | 2288 | rBV  | 725913  | 1003051 | 54.29%  | 4.398% |
| 94 | 15.983 | 2317 | 2320 | 2325 | rVB3 | 61753   | 75172   | 4.07%   | 0.330% |
| 95 | 16.236 | 2360 | 2363 | 2369 | rVB2 | 87392   | 127410  | 6.90%   | 0.559% |
| 96 | 17.118 | 2510 | 2513 | 2519 | rVB3 | 53626   | 93829   | 5.08%   | 0.411% |
| 97 | 17.383 | 2552 | 2558 | 2564 | rBV2 | 70510   | 158249  | 8.57%   | 0.694% |

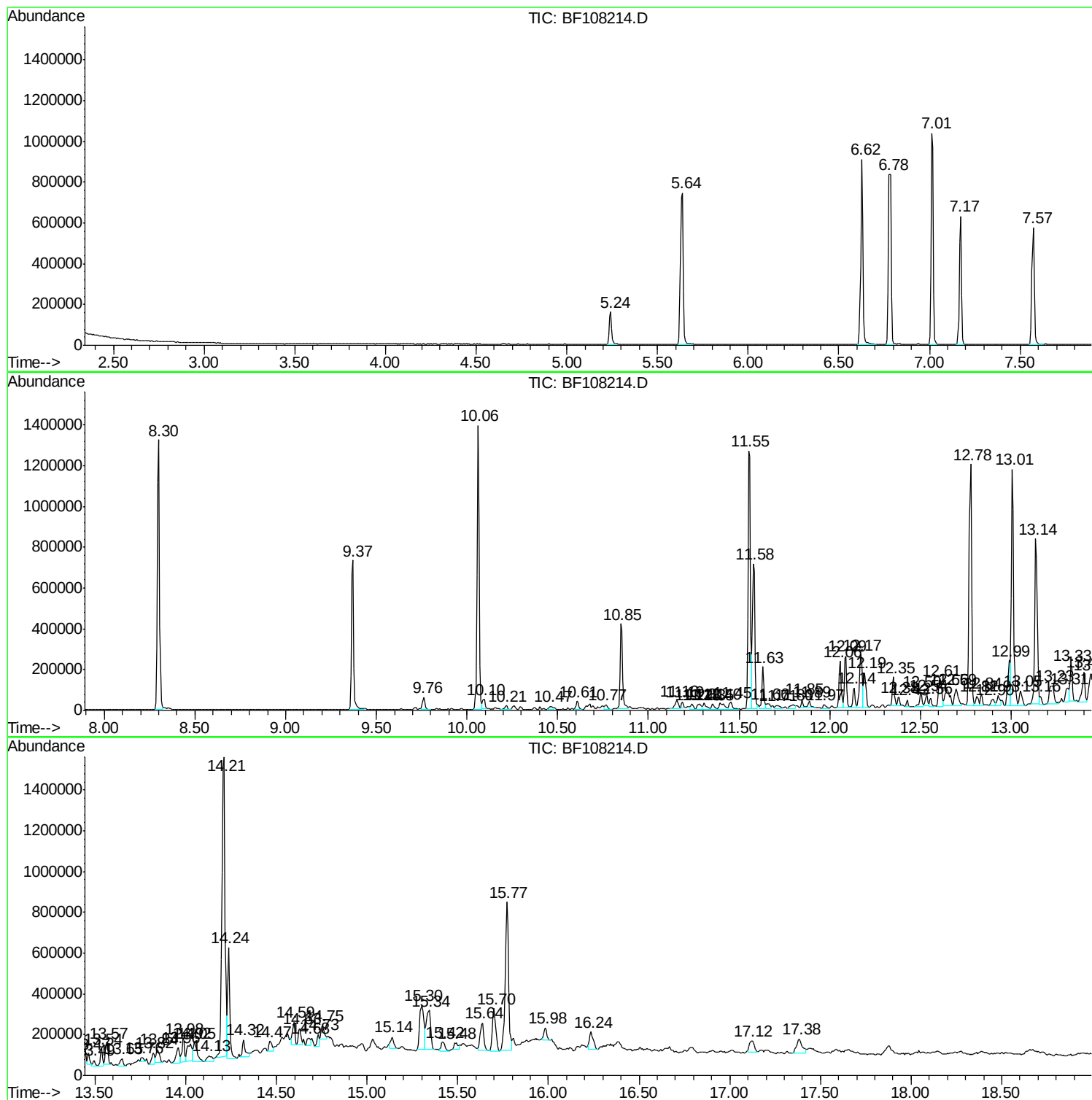
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Misc :  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TOD1-IB-0-4

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF080818.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\BF081618\  
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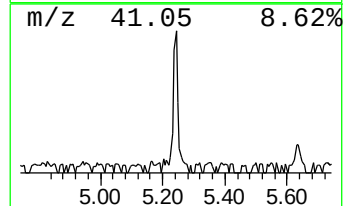
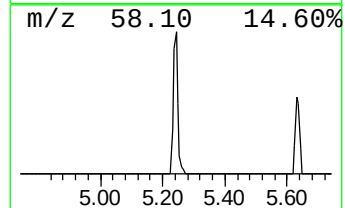
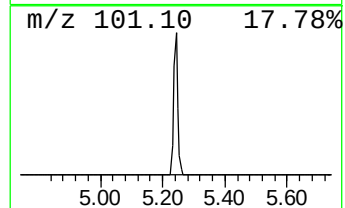
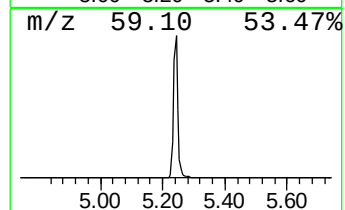
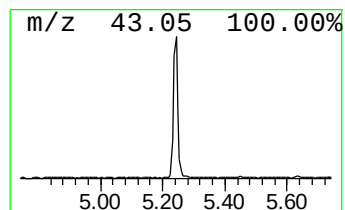
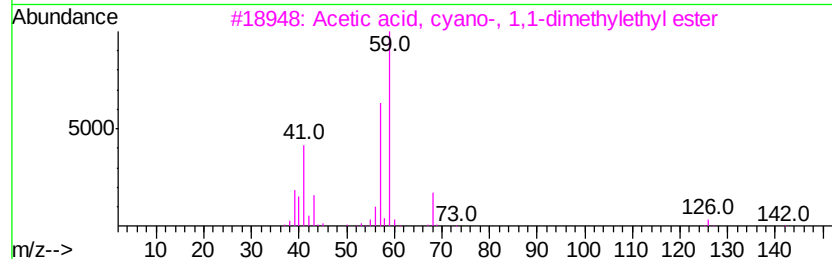
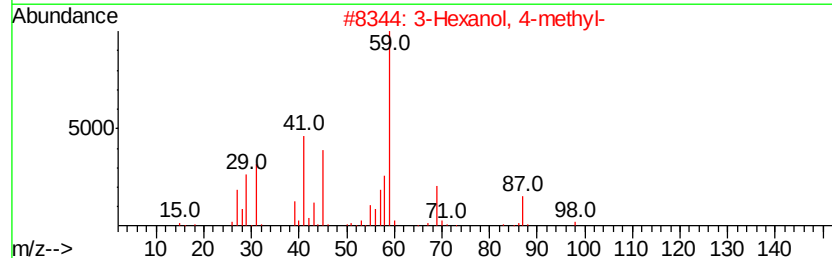
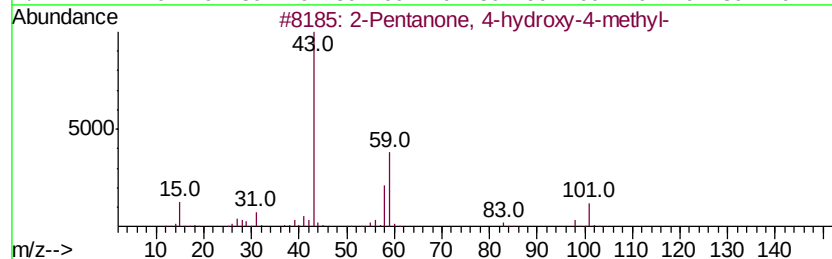
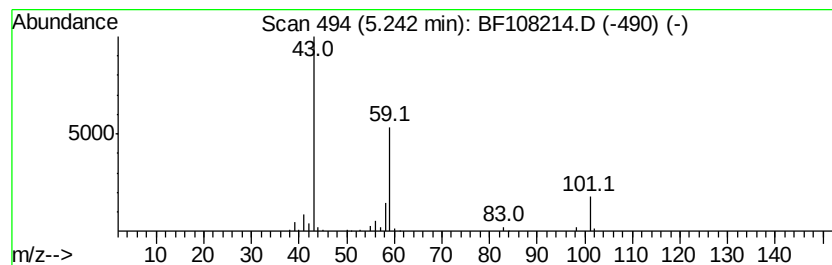
Instrument :  
BNA\_F  
ClientSampleId :  
TOD1-IB-0-4

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF080818.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 6

| R.T.      | EstConc                             | Area   | Relative to ISTD       | R.T.        |      |
|-----------|-------------------------------------|--------|------------------------|-------------|------|
| 5.24      | 3.34 ng                             | 156270 | 1,4-Dichlorobenzene-d4 | 7.02        |      |
| Hit# of 5 | Tentative ID                        | MW     | MolForm                | CAS#        | Qual |
| 1         | 2-Pentanone, 4-hydroxy-4-methyl-    | 116    | C6H12O2                | 000123-42-2 | 45   |
| 2         | 3-Hexanol, 4-methyl-                | 116    | C7H16O                 | 000615-29-2 | 33   |
| 3         | Acetic acid, cyano-, 1,1-dimethv... | 141    | C7H11NO2               | 001116-98-9 | 25   |
| 4         | 2,3-Butanedione, monooxime          | 101    | C4H7NO2                | 000057-71-6 | 16   |
| 5         | Morpholine, 4-methyl-               | 101    | C5H11NO                | 000109-02-4 | 9    |



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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF080818.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

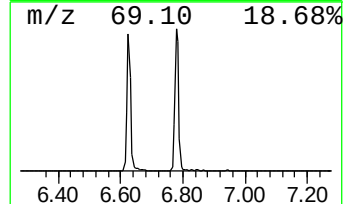
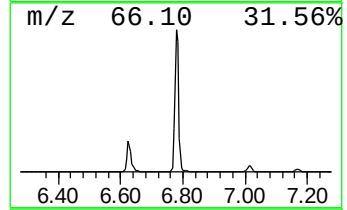
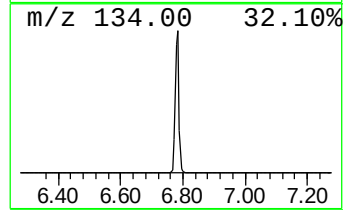
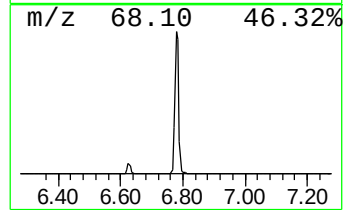
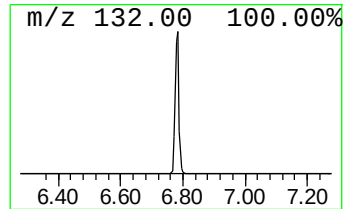
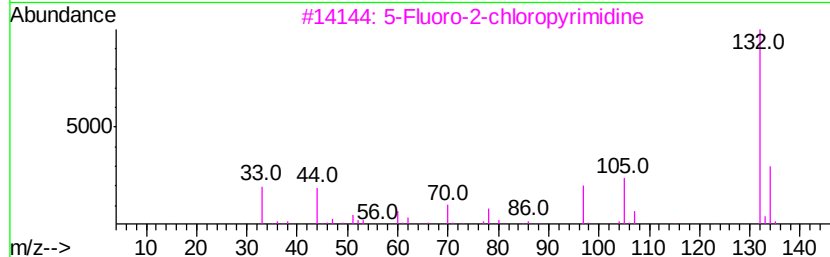
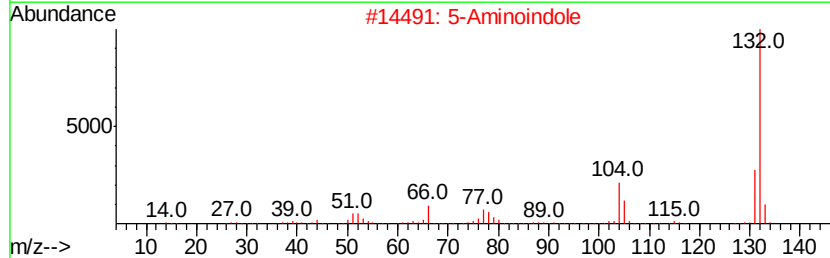
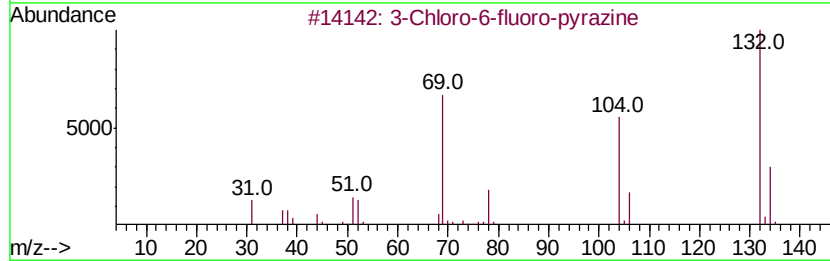
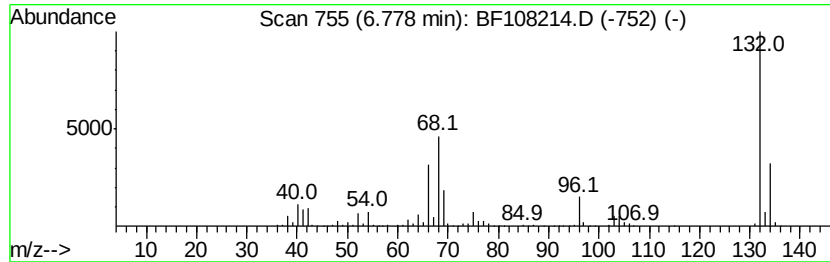
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 unknown6.78 Concentration Rank 1

| R.T. | EstConc  | Area   | Relative to ISTD       | R.T. |
|------|----------|--------|------------------------|------|
| 6.78 | 16.65 ng | 778900 | 1,4-Dichlorobenzene-d4 | 7.02 |

| Hit# | of    | Tentative ID              | MW  | MolForm   | CAS#         | Qual |
|------|-------|---------------------------|-----|-----------|--------------|------|
| 1    | 3     | Chloro-6-fluoro-pyrazine  | 132 | C4H2ClFN2 | 1000146-10-7 | 27   |
| 2    | 5     | Aminoindole               | 132 | C8H8N2    | 005192-03-0  | 22   |
| 3    | 5     | Fluoro-2-chloropyrimidine | 132 | C4H2ClFN2 | 062802-42-0  | 12   |
| 4    |       | Tranylcypromine-propionyl | 189 | C12H15NO  | 1000123-86-3 | 10   |
| 5    | 1,3,5 | Trifluorobenzene          | 132 | C6H3F3    | 000372-38-3  | 9    |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF081618\  
Data File : BF108214.D  
Acq On : 17 Aug 2018 00:03  
Operator : JU/SJ  
Sample : J4483-02 5X  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

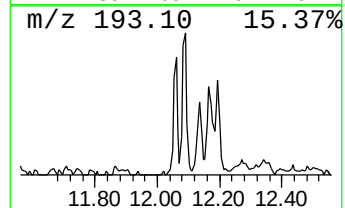
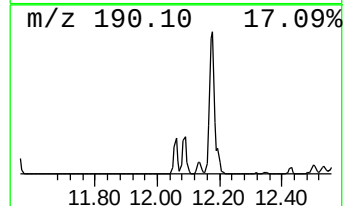
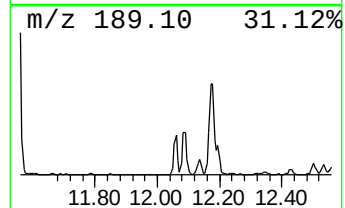
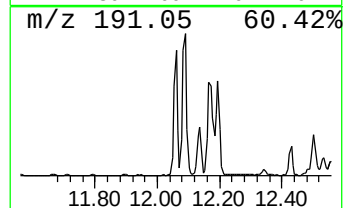
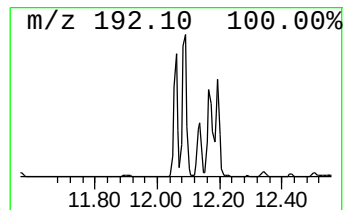
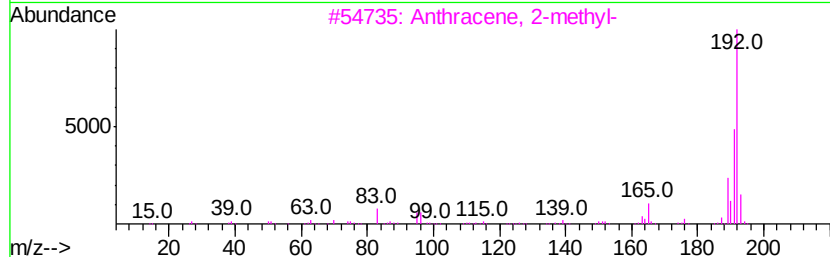
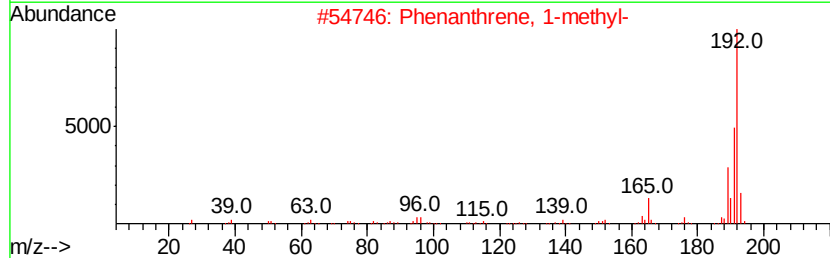
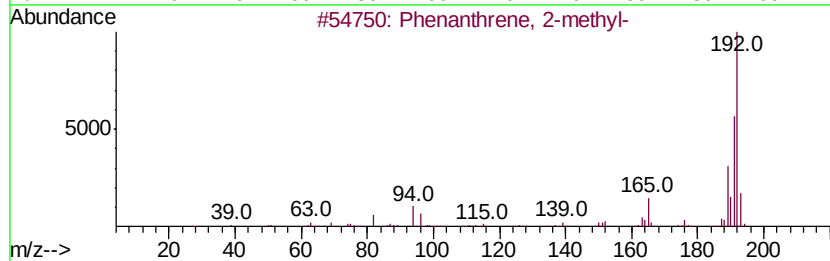
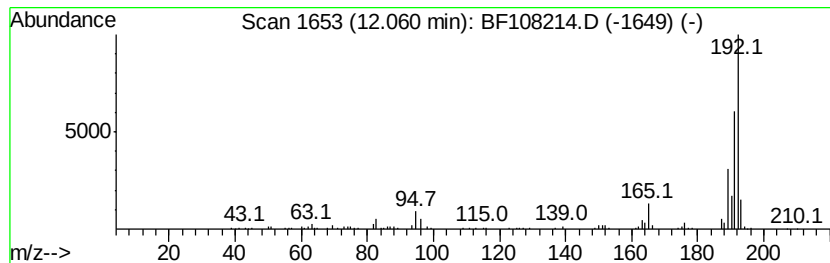
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ClientSampleId :  
TOD1-IB-0-4

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF080818.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 Phenanthrene, 2-methyl- Concentration Rank 7

| R.T.      | EstConc                 | Area   | Relative to ISTD | R.T.        |      |
|-----------|-------------------------|--------|------------------|-------------|------|
| 12.06     | 3.08 ng                 | 196604 | Phenanthrene-d10 | 11.55       |      |
| Hit# of 5 | Tentative ID            | MW     | MolForm          | CAS#        | Qual |
| 1         | Phenanthrene, 2-methyl- | 192    | C15H12           | 002531-84-2 | 96   |
| 2         | Phenanthrene, 1-methyl- | 192    | C15H12           | 000832-69-9 | 95   |
| 3         | Anthracene, 2-methyl-   | 192    | C15H12           | 000613-12-7 | 95   |
| 4         | Anthracene, 9-methyl-   | 192    | C15H12           | 000779-02-2 | 94   |
| 5         | 1H-Indene, 1-phenyl-    | 192    | C15H12           | 001961-96-2 | 94   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF081618\  
Data File : BF108214.D  
Acq On : 17 Aug 2018 00:03  
Operator : JU/SJ  
Sample : J4483-02 5X  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

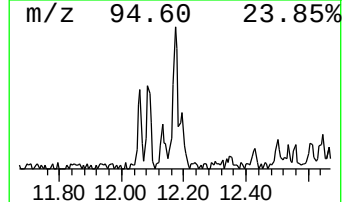
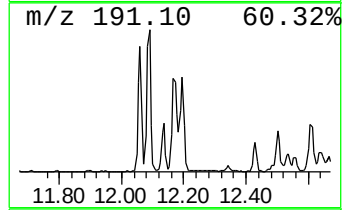
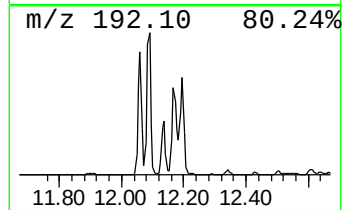
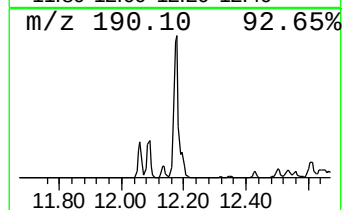
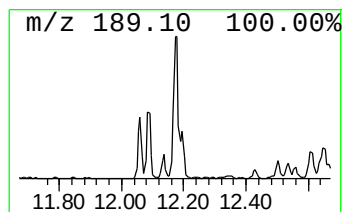
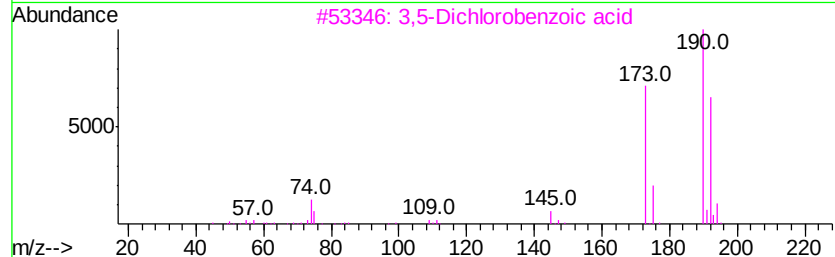
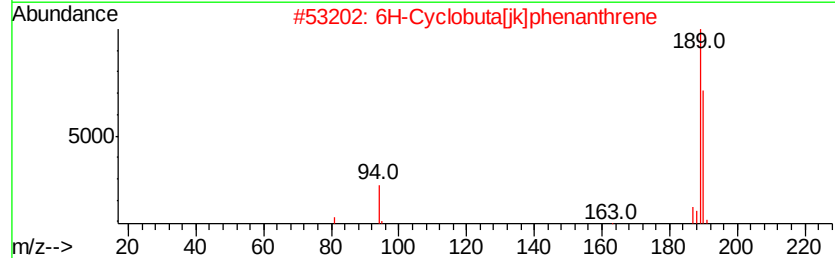
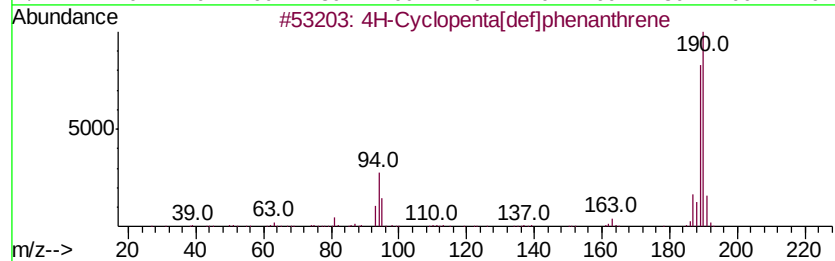
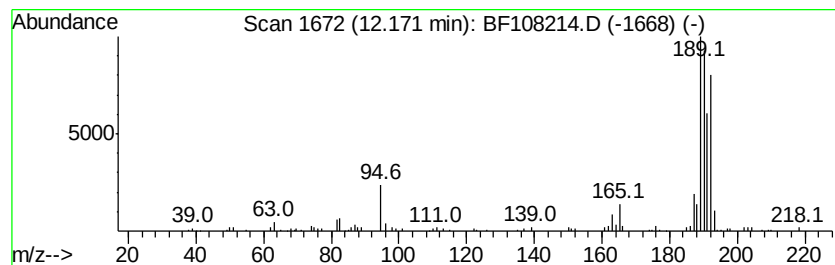
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF080818.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 6 4H-Cyclopenta[def]phenanthrene Concentration Rank 3

| R.T.      | EstConc                        | Area   | Relative to ISTD | R.T.        |      |
|-----------|--------------------------------|--------|------------------|-------------|------|
| 12.17     | 4.78 ng                        | 304354 | Phenanthrene-d10 | 11.55       |      |
| Hit# of 5 | Tentative ID                   | MW     | MolForm          | CAS#        | Qual |
| 1         | 4H-Cyclopenta[def]phenanthrene | 190    | C15H10           | 000203-64-5 | 53   |
| 2         | 6H-Cyclobuta[jkl]phenanthrene  | 190    | C15H10           | 083469-43-6 | 49   |
| 3         | 3,5-Dichlorobenzoic acid       | 190    | C7H4Cl2O2        | 000051-36-5 | 43   |
| 4         | 5H-Dibenzo[a,d]cycloheptene    | 192    | C15H12           | 000256-81-5 | 42   |
| 5         | Phenanthrene, 1-methyl-        | 192    | C15H12           | 000832-69-9 | 38   |





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF081618\  
Data File : BF108214.D  
Acq On : 17 Aug 2018 00:03  
Operator : JU/SJ  
Sample : J4483-02 5X  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TOD1-IB-0-4

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF080818.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

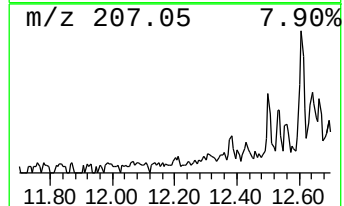
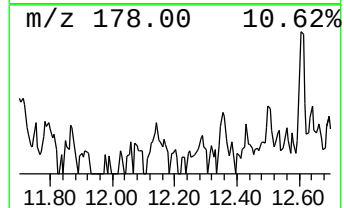
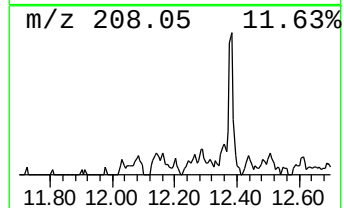
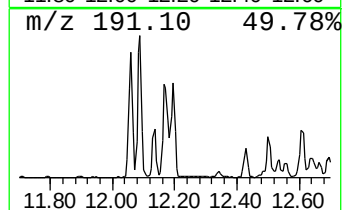
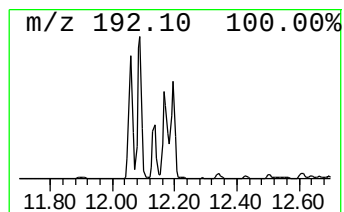
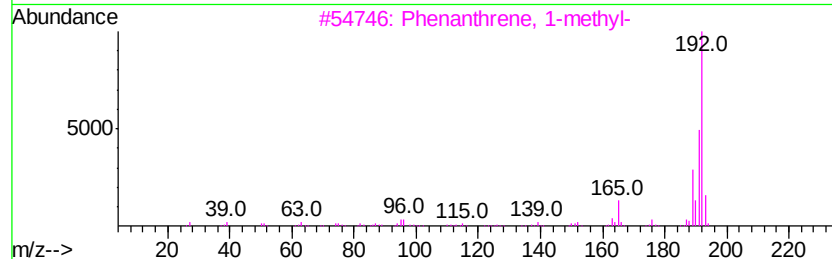
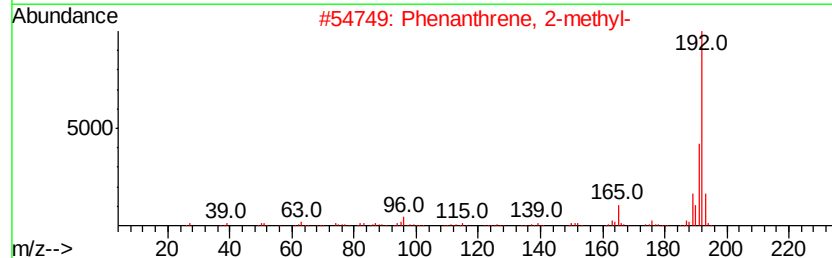
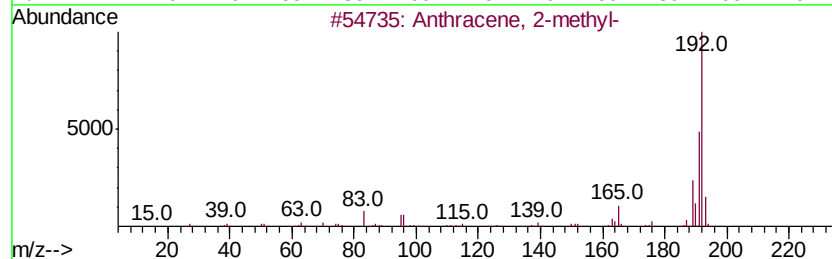
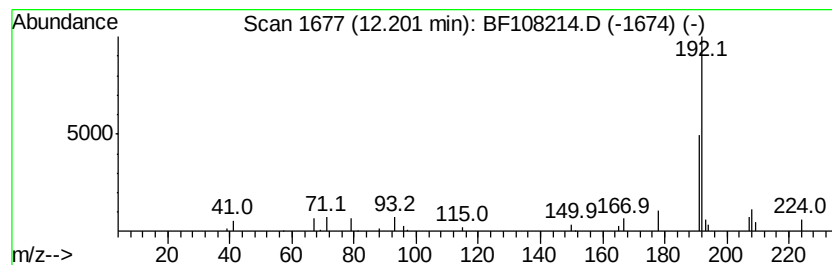
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 7 Anthracene, 2-methyl- Concentration Rank 11

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 12.20 | 2.15 ng | 136889 | Phenanthrene-d10 | 11.55 |

| Hit# | of | Tentative ID                          | MW  | MolForm | CAS#        | Qual |
|------|----|---------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Anthracene, 2-methyl-                 | 192 | C15H12  | 000613-12-7 | 91   |
| 2    |    | Phenanthrene, 2-methyl-               | 192 | C15H12  | 002531-84-2 | 91   |
| 3    |    | Phenanthrene, 1-methyl-               | 192 | C15H12  | 000832-69-9 | 91   |
| 4    |    | Anthracene, 9-methyl-                 | 192 | C15H12  | 000779-02-2 | 90   |
| 5    |    | 1H-Cyclopropa[l]phenanthrene, 1a, ... | 192 | C15H12  | 000949-41-7 | 90   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF081618\  
Data File : BF108214.D  
Acq On : 17 Aug 2018 00:03  
Operator : JU/SJ  
Sample : J4483-02 5X  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TOD1-IB-0-4

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF080818.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

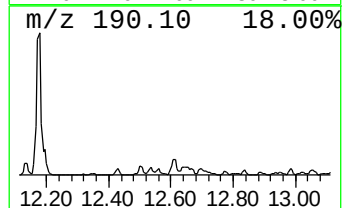
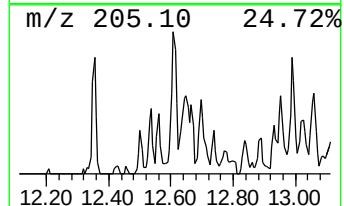
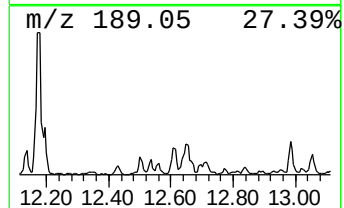
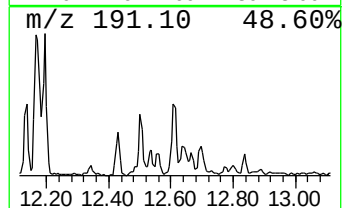
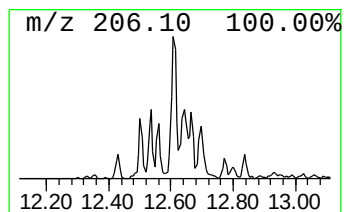
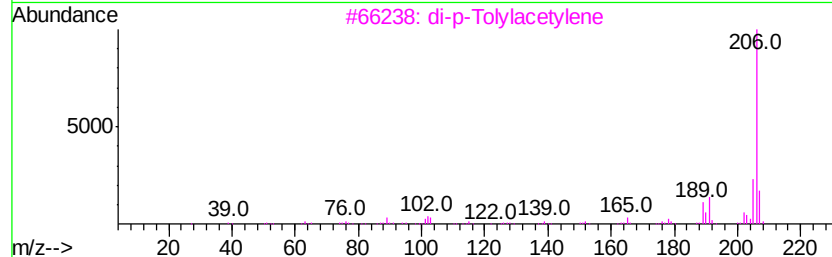
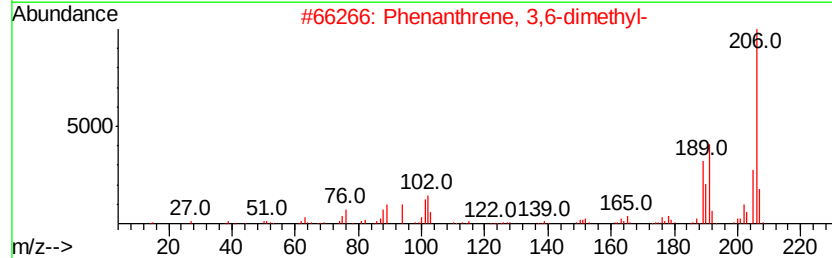
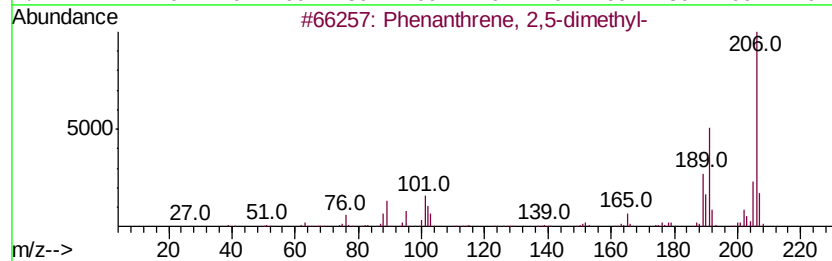
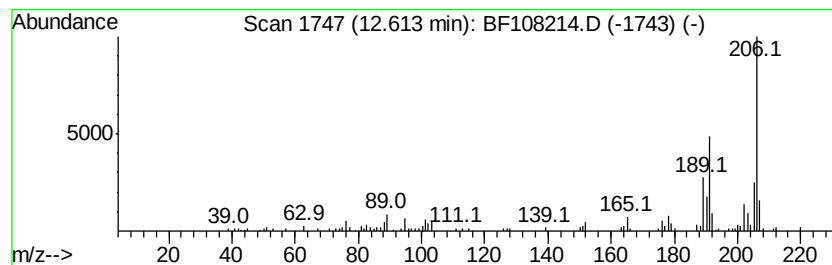
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 8 Phenanthrene, 2,5-dimethyl- Concentration Rank 9

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 12.61 | 2.41 ng | 153863 | Phenanthrene-d10 | 11.55 |

| Hit# | of | 5 | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|---|-----------------------------|-----|---------|-------------|------|
| 1    |    |   | Phenanthrene, 2,5-dimethyl- | 206 | C16H14  | 003674-66-6 | 97   |
| 2    |    |   | Phenanthrene, 3,6-dimethyl- | 206 | C16H14  | 001576-67-6 | 93   |
| 3    |    |   | di-p-Tolylacetylene         | 206 | C16H14  | 002789-88-0 | 93   |
| 4    |    |   | 9,10-Dimethylantracene      | 206 | C16H14  | 000781-43-1 | 93   |
| 5    |    |   | Phenanthrene, 1,7-dimethyl- | 206 | C16H14  | 000483-87-4 | 91   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF081618\  
Data File : BF108214.D  
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Operator : JU/SJ  
Sample : J4483-02 5X  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

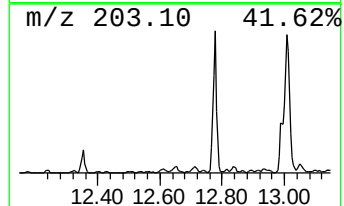
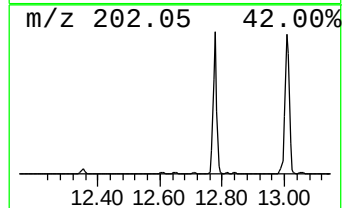
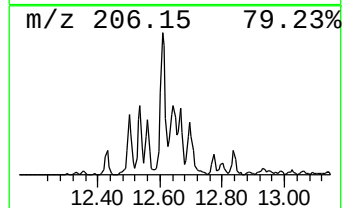
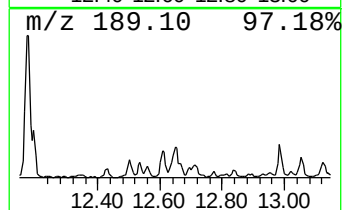
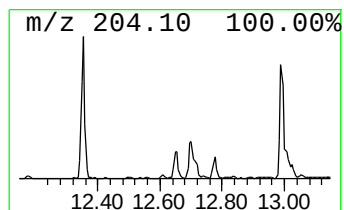
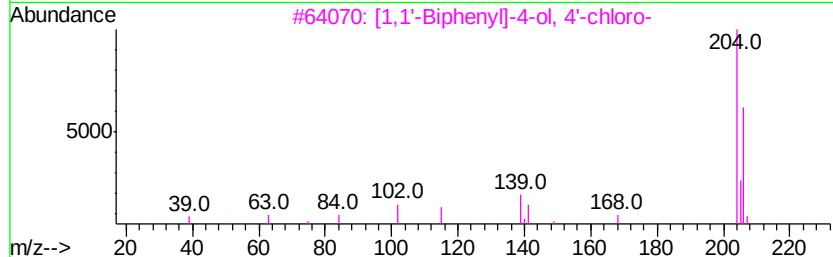
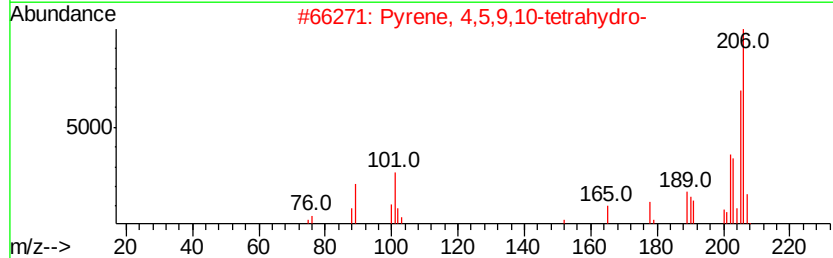
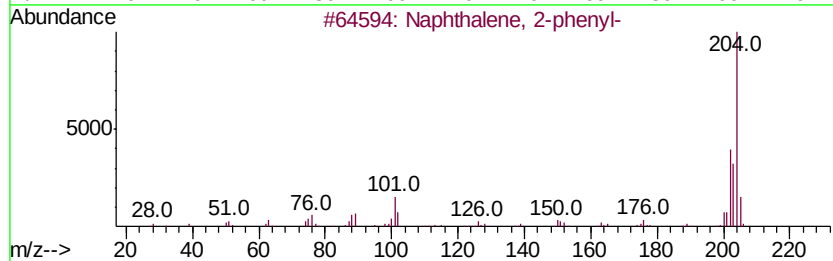
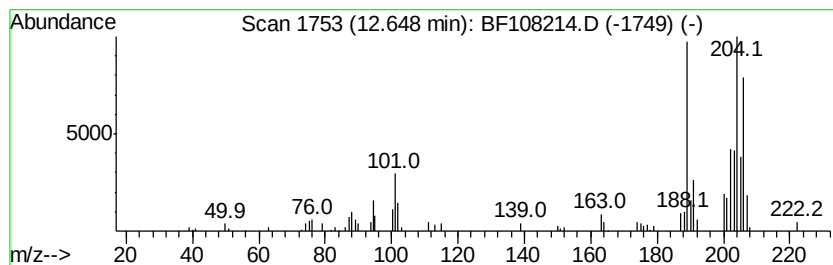
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TOD1-IB-0-4

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF080818.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 9 unknown12.65 Concentration Rank 10

| R.T.      | EstConc                             | Area   | Relative to ISTD | R.T.        |      |
|-----------|-------------------------------------|--------|------------------|-------------|------|
| 12.65     | 2.35 ng                             | 149857 | Phenanthrene-d10 | 11.55       |      |
| Hit# of 5 | Tentative ID                        | MW     | MolForm          | CAS#        | Qual |
| 1         | Naphthalene, 2-phenyl-              | 204    | C16H12           | 000612-94-2 | 38   |
| 2         | Pyrene, 4,5,9,10-tetrahydro-        | 206    | C16H14           | 000781-17-9 | 35   |
| 3         | [1,1'-Biphenyl]-4-ol, 4'-chloro-    | 204    | C12H9ClO         | 028034-99-3 | 27   |
| 4         | 1,3-Butadiene, 1,4-diphenyl-, (E... | 206    | C16H14           | 000538-81-8 | 25   |
| 5         | Phenanthrene, 3,6-dimethyl-         | 206    | C16H14           | 001576-67-6 | 25   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF081618\  
Data File : BF108214.D  
Acq On : 17 Aug 2018 00:03  
Operator : JU/SJ  
Sample : J4483-02 5X  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TOD1-IB-0-4

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF080818.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

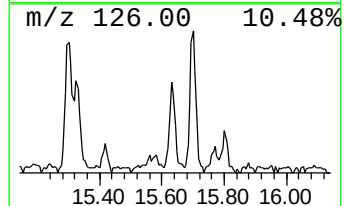
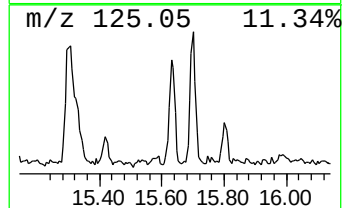
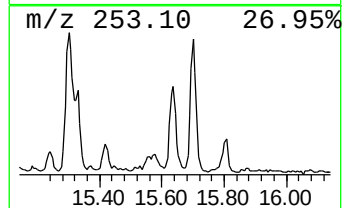
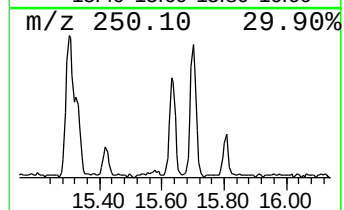
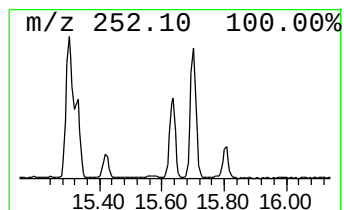
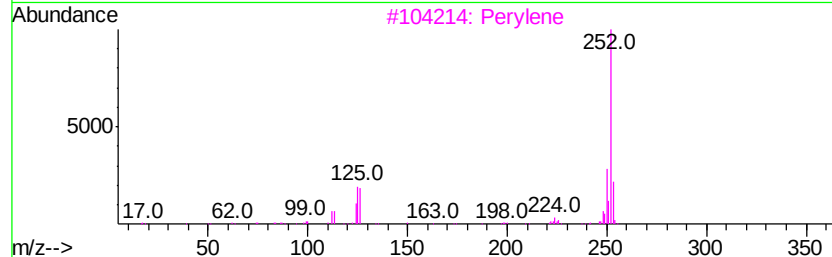
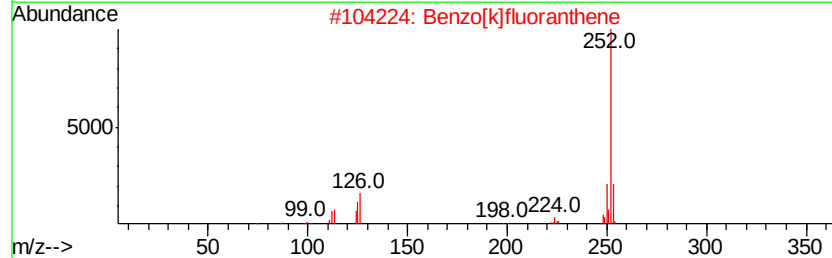
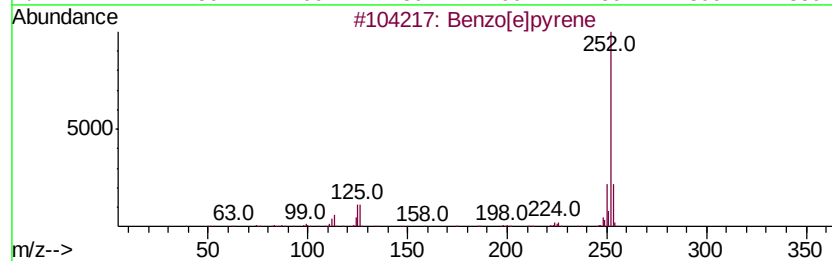
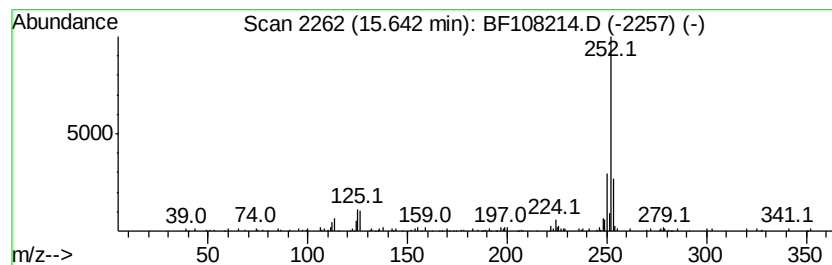
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TIC Integration Parameters: LSCINT.P

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Peak Number 10 Benzo[e]pyrene Concentration Rank 5

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 15.64 | 3.46 ng | 173426 | Perylene-d12     | 15.77 |

| Hit# | of | Tentative ID         | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------|-----|---------|-------------|------|
| 1    | 5  | Benzo[e]pyrene       | 252 | C20H12  | 000192-97-2 | 98   |
| 2    |    | Benzo[k]fluoranthene | 252 | C20H12  | 000207-08-9 | 97   |
| 3    |    | Perylene             | 252 | C20H12  | 000198-55-0 | 95   |
| 4    |    | Benzo[i]fluoranthene | 252 | C20H12  | 000205-82-3 | 95   |
| 5    |    | Benzo[a]pyrene       | 252 | C20H12  | 000050-32-8 | 95   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF081618\  
Data File : BF108214.D  
Acq On : 17 Aug 2018 00:03  
Operator : JU/SJ  
Sample : J4483-02 5X  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TOD1-IB-0-4

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF080818.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

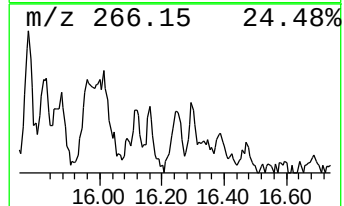
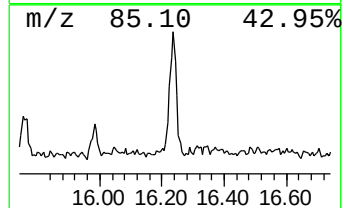
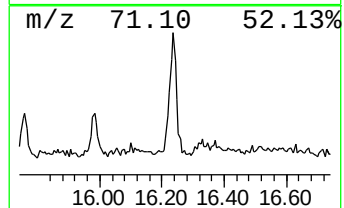
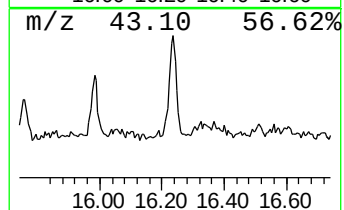
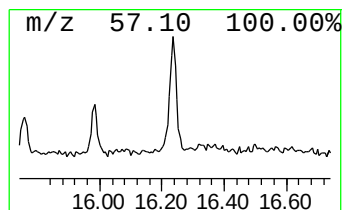
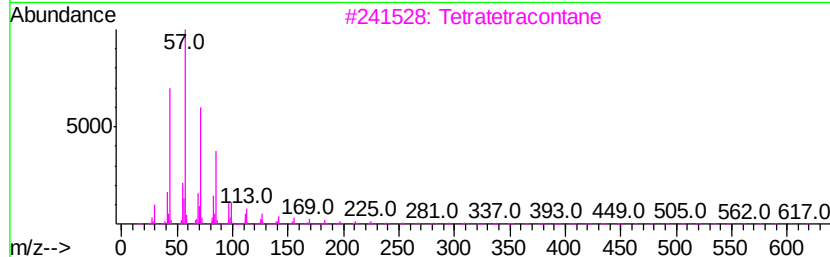
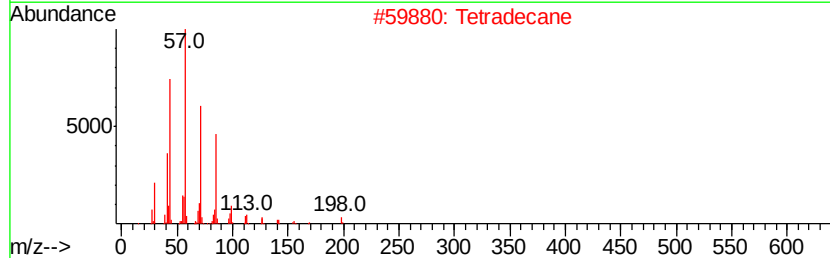
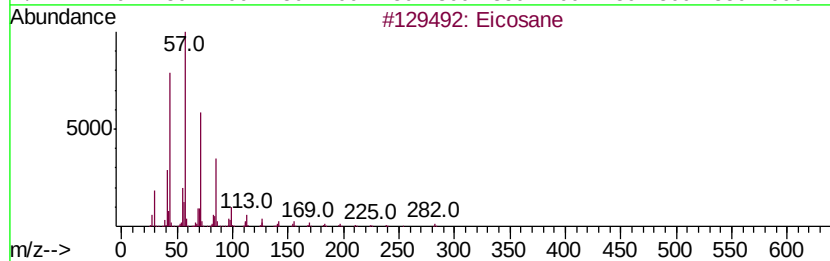
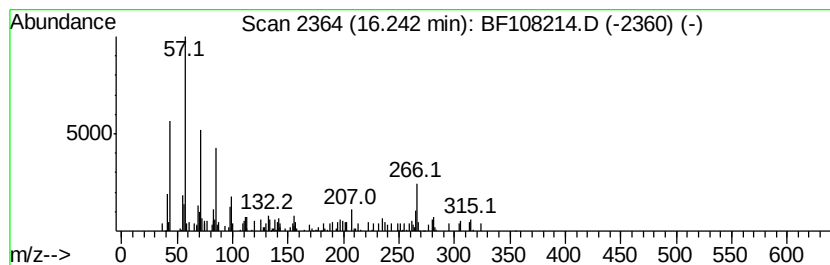
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 11 Eicosane Concentration Rank 8

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 16.24 | 2.54 ng | 127410 | Perylene-d12     | 15.77 |

| Hit# | of | Tentative ID        | MW  | MolForm | CAS#        | Qual |
|------|----|---------------------|-----|---------|-------------|------|
| 1    | 5  | Eicosane            | 282 | C20H42  | 000112-95-8 | 86   |
| 2    |    | Tetradecane         | 198 | C14H30  | 000629-59-4 | 83   |
| 3    |    | Tetratetracontane   | 619 | C44H90  | 007098-22-8 | 76   |
| 4    |    | Hexacosane          | 366 | C26H54  | 000630-01-3 | 76   |
| 5    |    | 10-Methylnonadecane | 282 | C20H42  | 056862-62-5 | 68   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF081618\  
Data File : BF108214.D  
Acq On : 17 Aug 2018 00:03  
Operator : JU/SJ  
Sample : J4483-02 5X  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TOD1-IB-0-4

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF080818.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 |
| 2-Pentanone, 4-hy... | 5.24  | 3.3     | ng    | 156270   | 1                     | 7.02  | 935465  | 20.0 |
| unknown6.78          | 6.78  | 16.6    | ng    | 778900   | 1                     | 7.02  | 935465  | 20.0 |
| Phenanthrene, 2-m... | 12.06 | 3.1     | ng    | 196604   | 4                     | 11.55 | 1274740 | 20.0 |
| 4H-Cyclopenta[def... | 12.17 | 4.8     | ng    | 304354   | 4                     | 11.55 | 1274740 | 20.0 |
| Anthracene, 2-met... | 12.20 | 2.1     | ng    | 136889   | 4                     | 11.55 | 1274740 | 20.0 |
| Phenanthrene, 2,5... | 12.61 | 2.4     | ng    | 153863   | 4                     | 11.55 | 1274740 | 20.0 |
| unknown12.65         | 12.65 | 2.4     | ng    | 149857   | 4                     | 11.55 | 1274740 | 20.0 |
| Benzo[e]pyrene       | 15.64 | 3.5     | ng    | 173426   | 6                     | 15.77 | 1003050 | 20.0 |
| Eicosane             | 16.24 | 2.5     | ng    | 127410   | 6                     | 15.77 | 1003050 | 20.0 |