

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF091415\  
 Data File : BF081610.D  
 Acq On : 14 Sep 2015 16:24  
 Operator : UM/IZ  
 Sample : G3597-04 5X  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 GP-4(0-5)

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-BF090115.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         | 1.462       | 9             | 11          | 16           | rBV      | 17062          | 45485         | 2.16%           | 0.188%        |
| 2         | 1.543       | 16            | 18          | 61           | rVB      | 635603         | 2101297       | 100.00%         | 8.702%        |
| 3         | 4.480       | 271           | 275         | 297          | rBV      | 225353         | 538358        | 25.62%          | 2.230%        |
| 4         | 5.394       | 353           | 355         | 365          | rBV      | 29990          | 68722         | 3.27%           | 0.285%        |
| 5         | 7.646       | 549           | 552         | 558          | rBV      | 183250         | 339930        | 16.18%          | 1.408%        |
| 6         | 7.749       | 558           | 561         | 567          | rVB      | 102856         | 190702        | 9.08%           | 0.790%        |
| 7         | 8.229       | 600           | 603         | 607          | rBV      | 249507         | 383031        | 18.23%          | 1.586%        |
| 8         | 8.549       | 628           | 631         | 635          | rBV      | 200656         | 316633        | 15.07%          | 1.311%        |
| 9         | 9.520       | 712           | 716         | 725          | rBB      | 163722         | 281932        | 13.42%          | 1.168%        |
| 10        | 11.132      | 853           | 857         | 859          | rBV      | 331078         | 534103        | 25.42%          | 2.212%        |
| 11        | 11.178      | 859           | 861         | 865          | rVV      | 237776         | 344476        | 16.39%          | 1.427%        |
| 12        | 12.835      | 1002          | 1006        | 1009         | rBV      | 133609         | 222550        | 10.59%          | 0.922%        |
| 13        | 13.052      | 1019          | 1025        | 1028         | rBB      | 94929          | 158958        | 7.56%           | 0.658%        |
| 14        | 13.772      | 1084          | 1088        | 1091         | rBV      | 309860         | 477258        | 22.71%          | 1.976%        |
| 15        | 14.172      | 1120          | 1123        | 1128         | rBB2     | 22300          | 43706         | 2.08%           | 0.181%        |
| 16        | 14.332      | 1134          | 1137        | 1142         | rBB2     | 26425          | 77812         | 3.70%           | 0.322%        |
| 17        | 14.504      | 1149          | 1152        | 1155         | rBV      | 68581          | 117894        | 5.61%           | 0.488%        |
| 18        | 14.561      | 1155          | 1157        | 1161         | rVB      | 40347          | 63561         | 3.02%           | 0.263%        |
| 19        | 14.767      | 1172          | 1175        | 1178         | rBV      | 27729          | 67270         | 3.20%           | 0.279%        |
| 20        | 14.824      | 1178          | 1180        | 1185         | rVB      | 48336          | 75518         | 3.59%           | 0.313%        |
| 21        | 15.270      | 1215          | 1219        | 1222         | rBV      | 293468         | 532282        | 25.33%          | 2.204%        |
| 22        | 15.338      | 1222          | 1225        | 1228         | rVB      | 159122         | 237525        | 11.30%          | 0.984%        |
| 23        | 15.761      | 1259          | 1262        | 1265         | rVV      | 116331         | 181621        | 8.64%           | 0.752%        |
| 24        | 16.573      | 1330          | 1333        | 1338         | rVV      | 201074         | 329617        | 15.69%          | 1.365%        |
| 25        | 16.733      | 1343          | 1347        | 1349         | rVV2     | 29060          | 72240         | 3.44%           | 0.299%        |
| 26        | 16.778      | 1349          | 1351        | 1355         | rVV2     | 23144          | 43762         | 2.08%           | 0.181%        |
| 27        | 16.984      | 1367          | 1369        | 1373         | rVB      | 32676          | 51935         | 2.47%           | 0.215%        |
| 28        | 17.167      | 1382          | 1385        | 1390         | rVB2     | 40439          | 94703         | 4.51%           | 0.392%        |
| 29        | 17.807      | 1438          | 1441        | 1446         | rBV3     | 18772          | 47885         | 2.28%           | 0.198%        |
| 30        | 17.898      | 1446          | 1449        | 1452         | rVV      | 32939          | 77613         | 3.69%           | 0.321%        |
| 31        | 17.956      | 1452          | 1454        | 1457         | rVB2     | 28882          | 45125         | 2.15%           | 0.187%        |
| 32        | 18.081      | 1463          | 1465        | 1470         | rVB2     | 20495          | 39776         | 1.89%           | 0.165%        |
| 33        | 18.253      | 1476          | 1480        | 1483         | rBV4     | 23788          | 53661         | 2.55%           | 0.222%        |
| 34        | 18.344      | 1486          | 1488        | 1492         | rVB      | 38766          | 60861         | 2.90%           | 0.252%        |

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 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 GP-4(0-5)

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-BF090115.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 35 | 18.516 | 1497 | 1503 | 1506 | rBV  | 96564   | 181929  | 8.66%  | 0.753% |
| 36 | 18.779 | 1521 | 1526 | 1528 | rBV  | 246236  | 524517  | 24.96% | 2.172% |
| 37 | 18.847 | 1528 | 1532 | 1534 | rVV  | 1118097 | 2020666 | 96.16% | 8.368% |
| 38 | 18.950 | 1537 | 1541 | 1545 | rVV  | 301250  | 523314  | 24.90% | 2.167% |
| 39 | 19.133 | 1553 | 1557 | 1561 | rBV4 | 14453   | 39053   | 1.86%  | 0.162% |
| 40 | 19.304 | 1569 | 1572 | 1578 | rVB  | 15883   | 38443   | 1.83%  | 0.159% |
| 41 | 19.419 | 1579 | 1582 | 1588 | rVB  | 79755   | 135531  | 6.45%  | 0.561% |
| 42 | 19.567 | 1592 | 1595 | 1599 | rVB2 | 54877   | 97288   | 4.63%  | 0.403% |
| 43 | 19.773 | 1610 | 1613 | 1619 | rVB  | 23996   | 63128   | 3.00%  | 0.261% |
| 44 | 19.921 | 1623 | 1626 | 1630 | rVV2 | 24175   | 56550   | 2.69%  | 0.234% |
| 45 | 20.001 | 1630 | 1633 | 1636 | rVV  | 158719  | 288595  | 13.73% | 1.195% |
| 46 | 20.070 | 1636 | 1639 | 1642 | rVV  | 184600  | 318557  | 15.16% | 1.319% |
| 47 | 20.173 | 1645 | 1648 | 1650 | rVV  | 68775   | 135753  | 6.46%  | 0.562% |
| 48 | 20.219 | 1650 | 1652 | 1656 | rVV2 | 122159  | 359193  | 17.09% | 1.488% |
| 49 | 20.299 | 1656 | 1659 | 1662 | rVV  | 115707  | 244692  | 11.64% | 1.013% |
| 50 | 20.562 | 1679 | 1682 | 1685 | rVV2 | 20558   | 40741   | 1.94%  | 0.169% |
| 51 | 20.744 | 1694 | 1698 | 1706 | rVB2 | 105966  | 274716  | 13.07% | 1.138% |
| 52 | 20.870 | 1706 | 1709 | 1712 | rBV  | 52762   | 75643   | 3.60%  | 0.313% |
| 53 | 21.030 | 1718 | 1723 | 1725 | rBV2 | 21906   | 55456   | 2.64%  | 0.230% |
| 54 | 21.076 | 1725 | 1727 | 1729 | rBV  | 35339   | 53749   | 2.56%  | 0.223% |
| 55 | 21.122 | 1729 | 1731 | 1733 | rVB  | 25145   | 37053   | 1.76%  | 0.153% |
| 56 | 21.213 | 1736 | 1739 | 1741 | rBV  | 90203   | 173355  | 8.25%  | 0.718% |
| 57 | 21.259 | 1741 | 1743 | 1745 | rVV3 | 49599   | 99536   | 4.74%  | 0.412% |
| 58 | 21.304 | 1745 | 1747 | 1750 | rVV2 | 33929   | 57287   | 2.73%  | 0.237% |
| 59 | 21.362 | 1750 | 1752 | 1756 | rVV2 | 33736   | 74016   | 3.52%  | 0.307% |
| 60 | 21.453 | 1756 | 1760 | 1762 | rVV  | 882879  | 1259655 | 59.95% | 5.217% |
| 61 | 21.556 | 1765 | 1769 | 1772 | rBV3 | 47661   | 137015  | 6.52%  | 0.567% |
| 62 | 21.659 | 1775 | 1778 | 1782 | rBV3 | 37529   | 76159   | 3.62%  | 0.315% |
| 63 | 21.796 | 1786 | 1790 | 1793 | rBV  | 1017212 | 1299681 | 61.85% | 5.382% |
| 64 | 21.899 | 1797 | 1799 | 1802 | rBV2 | 38218   | 65751   | 3.13%  | 0.272% |
| 65 | 22.036 | 1809 | 1811 | 1814 | rVB2 | 294458  | 362521  | 17.25% | 1.501% |
| 66 | 22.116 | 1816 | 1818 | 1820 | rBV  | 381329  | 435080  | 20.71% | 1.802% |
| 67 | 22.150 | 1820 | 1821 | 1824 | rVB2 | 93158   | 125797  | 5.99%  | 0.521% |
| 68 | 22.265 | 1829 | 1831 | 1832 | rBV2 | 54905   | 87285   | 4.15%  | 0.361% |
| 69 | 22.310 | 1832 | 1835 | 1837 | rVB  | 126860  | 199807  | 9.51%  | 0.827% |
| 70 | 22.402 | 1840 | 1843 | 1844 | rBV  | 106733  | 144353  | 6.87%  | 0.598% |
| 71 | 22.436 | 1844 | 1846 | 1852 | rVV2 | 91057   | 165741  | 7.89%  | 0.686% |

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 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 GP-4(0-5)

Integration Parameters: rteint.p  
 Integrator: RTE  
 Smoothing : ON  
 Sampling : 1  
 Start Thrs: 0.2  
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 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-BF090115.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|     |        |      |      |      |      |        |        |        |        |
|-----|--------|------|------|------|------|--------|--------|--------|--------|
| 72  | 22.550 | 1854 | 1856 | 1858 | rVV  | 67038  | 75267  | 3.58%  | 0.312% |
| 73  | 22.585 | 1858 | 1859 | 1861 | rVB2 | 92112  | 105415 | 5.02%  | 0.437% |
| 74  | 22.630 | 1861 | 1863 | 1865 | rBV2 | 18827  | 41971  | 2.00%  | 0.174% |
| 75  | 22.870 | 1877 | 1884 | 1888 | rBV8 | 36352  | 166107 | 7.90%  | 0.688% |
| 76  | 22.950 | 1888 | 1891 | 1894 | rVV2 | 211465 | 316515 | 15.06% | 1.311% |
| 77  | 22.996 | 1894 | 1895 | 1897 | rVB  | 46220  | 54689  | 2.60%  | 0.226% |
| 78  | 23.087 | 1902 | 1903 | 1905 | rVV2 | 83300  | 98990  | 4.71%  | 0.410% |
| 79  | 23.133 | 1905 | 1907 | 1909 | rVV2 | 88187  | 155712 | 7.41%  | 0.645% |
| 80  | 23.179 | 1909 | 1911 | 1913 | rVV2 | 52246  | 64775  | 3.08%  | 0.268% |
| 81  | 23.225 | 1913 | 1915 | 1918 | rVV  | 55100  | 67957  | 3.23%  | 0.281% |
| 82  | 23.385 | 1925 | 1929 | 1931 | rBV2 | 491101 | 963571 | 45.86% | 3.990% |
| 83  | 23.430 | 1931 | 1933 | 1934 | rVB2 | 341242 | 435556 | 20.73% | 1.804% |
| 84  | 23.499 | 1937 | 1939 | 1941 | rBV  | 80357  | 106939 | 5.09%  | 0.443% |
| 85  | 23.682 | 1953 | 1955 | 1957 | rBV2 | 38033  | 66031  | 3.14%  | 0.273% |
| 86  | 23.728 | 1957 | 1959 | 1961 | rVB  | 86545  | 97623  | 4.65%  | 0.404% |
| 87  | 23.796 | 1964 | 1965 | 1967 | rBV  | 27917  | 48855  | 2.32%  | 0.202% |
| 88  | 23.842 | 1967 | 1969 | 1971 | rBV  | 107654 | 136203 | 6.48%  | 0.564% |
| 89  | 24.048 | 1986 | 1987 | 1990 | rVB2 | 72175  | 93102  | 4.43%  | 0.386% |
| 90  | 24.356 | 2012 | 2014 | 2016 | rBV2 | 77860  | 74697  | 3.55%  | 0.309% |
| 91  | 24.493 | 2023 | 2026 | 2030 | rBV  | 330411 | 580102 | 27.61% | 2.402% |
| 92  | 24.585 | 2032 | 2034 | 2035 | rVB  | 57043  | 63303  | 3.01%  | 0.262% |
| 93  | 24.653 | 2037 | 2040 | 2045 | rVV3 | 59333  | 171759 | 8.17%  | 0.711% |
| 94  | 24.733 | 2045 | 2047 | 2049 | rVV  | 220718 | 236003 | 11.23% | 0.977% |
| 95  | 24.779 | 2049 | 2051 | 2054 | rVV  | 259023 | 365138 | 17.38% | 1.512% |
| 96  | 24.836 | 2054 | 2056 | 2062 | rVB2 | 233521 | 450752 | 21.45% | 1.867% |
| 97  | 24.928 | 2062 | 2064 | 2066 | rBV2 | 48567  | 64395  | 3.06%  | 0.267% |
| 98  | 25.236 | 2089 | 2091 | 2095 | rVB  | 66515  | 94995  | 4.52%  | 0.393% |
| 99  | 25.888 | 2145 | 2148 | 2152 | rVB  | 102748 | 174610 | 8.31%  | 0.723% |
| 100 | 26.185 | 2172 | 2174 | 2177 | rBV  | 68966  | 130366 | 6.20%  | 0.540% |

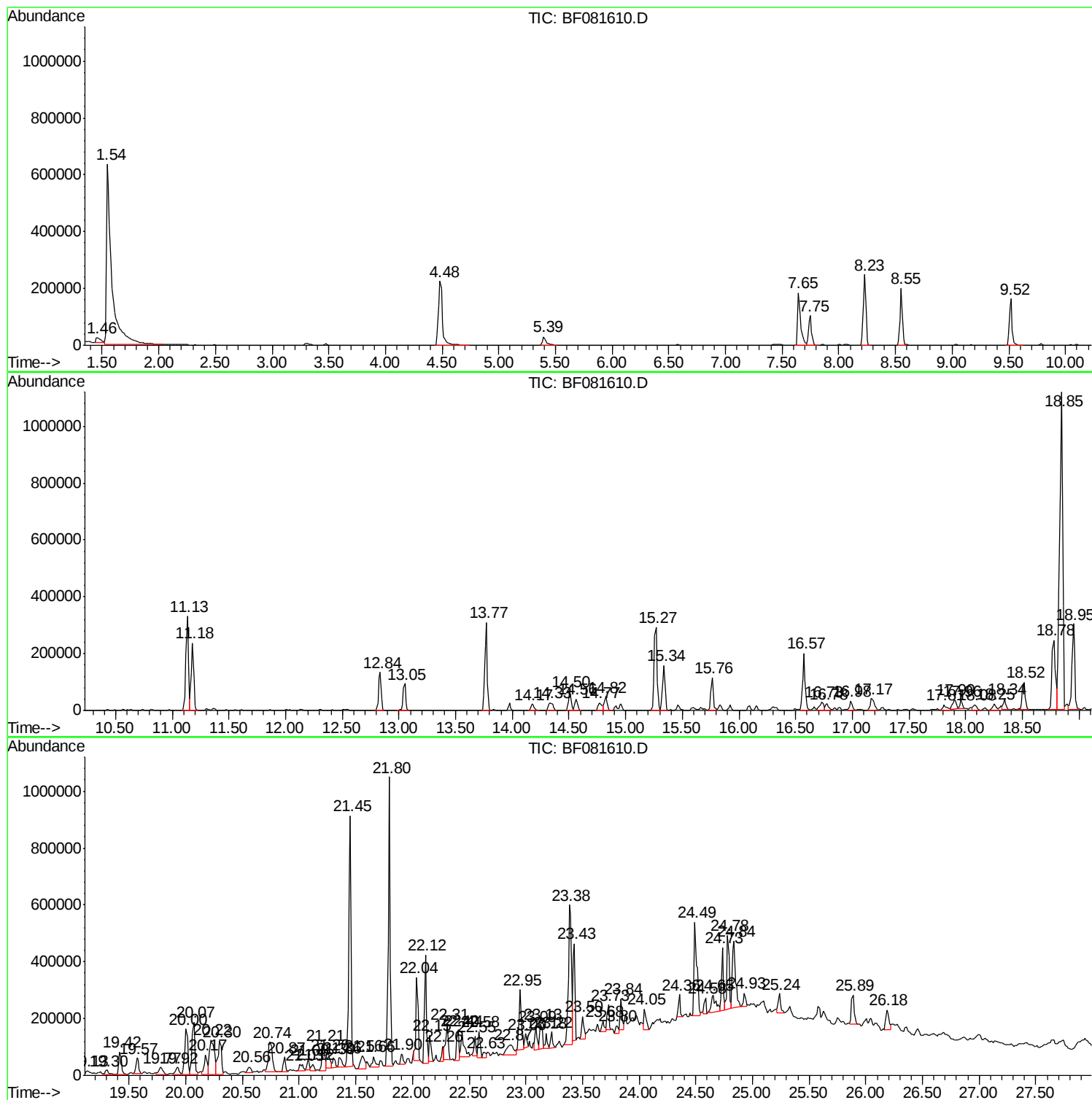
Sum of corrected areas: 24146806

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Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
GP-4(0-5)

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF090115.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF091415\  
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Instrument :  
BNA\_F  
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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF090115.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

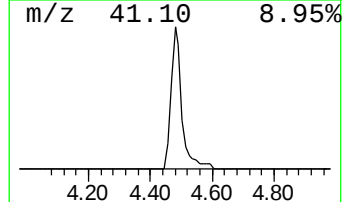
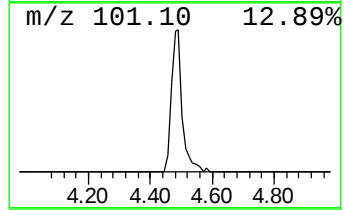
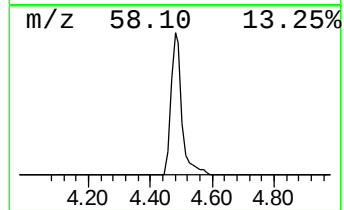
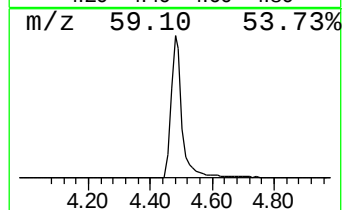
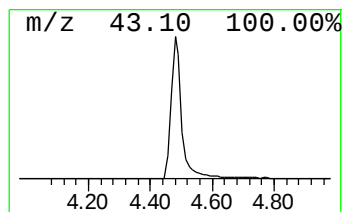
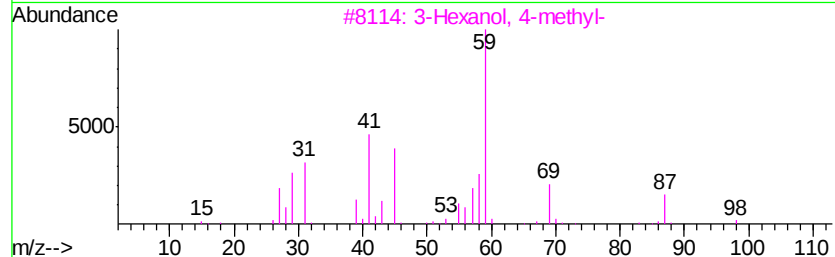
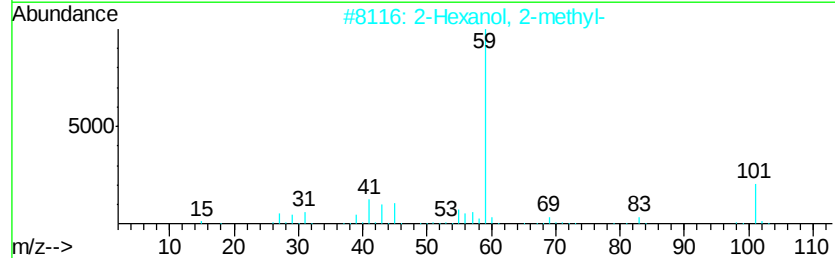
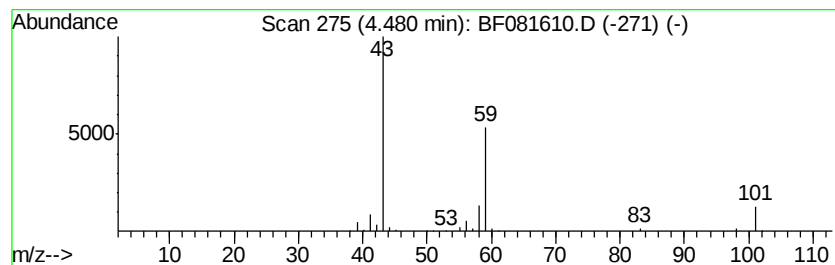
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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

| R.T. | EstConc  | Area   | Relative to ISTD       | R.T. |
|------|----------|--------|------------------------|------|
| 4.48 | 28.11 ng | 538358 | 1,4-Dichlorobenzene-d4 | 8.23 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|----------|-------------|------|
| 1    |    |   | 2-Pentanone, 4-hydroxy-4-methyl-    | 116 | C6H12O2  | 000123-42-2 | 50   |
| 2    |    |   | 2-Hexanol, 2-methyl-                | 116 | C7H16O   | 000625-23-0 | 33   |
| 3    |    |   | 3-Hexanol, 4-methyl-                | 116 | C7H16O   | 000615-29-2 | 33   |
| 4    |    |   | Acetic acid, cyano-, 1,1-dimethy... | 141 | C7H11NO2 | 001116-98-9 | 23   |
| 5    |    |   | 4-Penten-2-one, 4-methyl-           | 98  | C6H10O   | 003744-02-3 | 9    |



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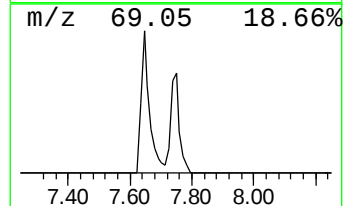
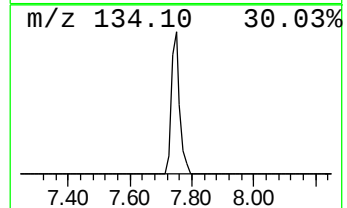
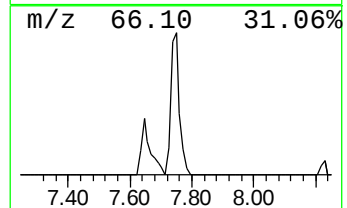
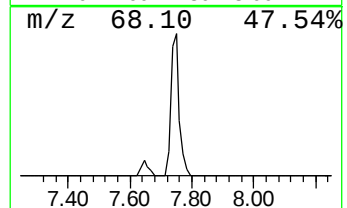
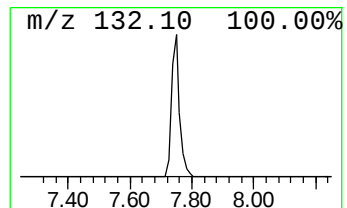
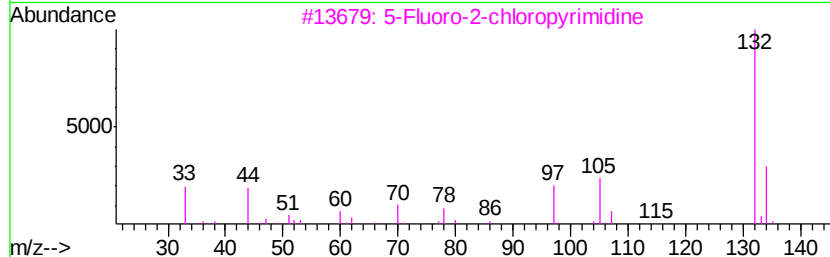
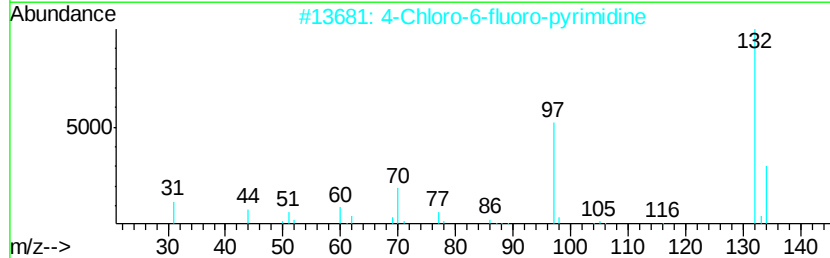
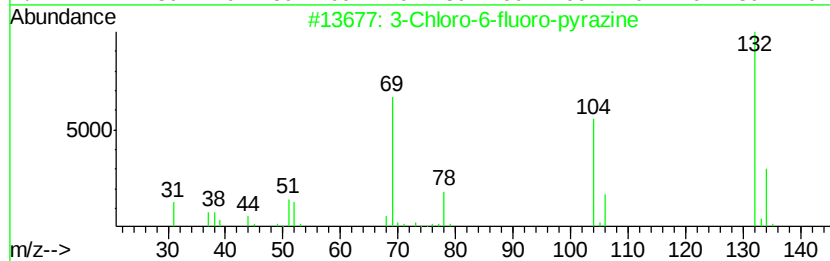
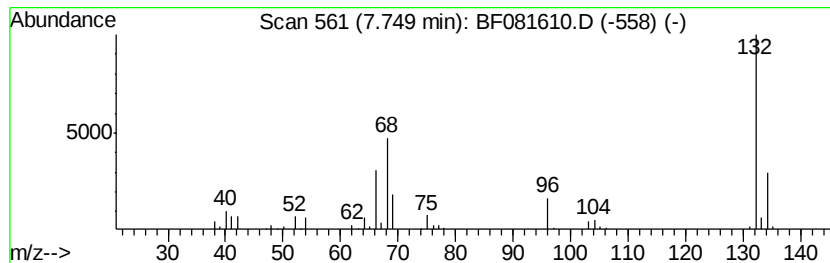
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF090115.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 unknown7.75 Concentration Rank 8

| R.T. | EstConc | Area   | Relative to ISTD       | R.T. |
|------|---------|--------|------------------------|------|
| 7.75 | 9.96 ng | 190702 | 1,4-Dichlorobenzene-d4 | 8.23 |

| Hit# | of | Tentative ID                 | MW  | MolForm   | CAS#         | Qual |
|------|----|------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 3-Chloro-6-fluoro-pyrazine   | 132 | C4H2ClFN2 | 1000146-10-7 | 35   |
| 2    |    | 4-Chloro-6-fluoro-pyrimidine | 132 | C4H2ClFN2 | 051422-01-6  | 27   |
| 3    |    | 5-Fluoro-2-chloropyrimidine  | 132 | C4H2ClFN2 | 062802-42-0  | 27   |
| 4    |    | 1H-Benzimidazole, 2-methyl-  | 132 | C8H8N2    | 000615-15-6  | 22   |
| 5    |    | 4-Chloro-2-fluoro-pyrimidine | 132 | C4H2ClFN2 | 051422-00-5  | 12   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF091415\  
Data File : BF081610.D  
Acq On : 14 Sep 2015 16:24  
Operator : UM/IZ  
Sample : G3597-04 5X  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
GP-4(0-5)

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

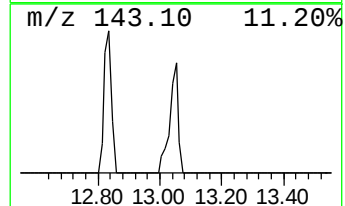
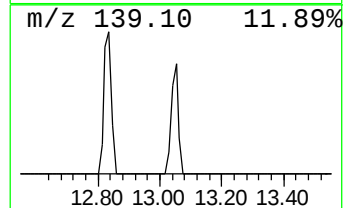
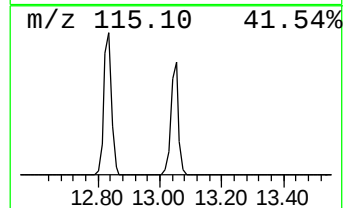
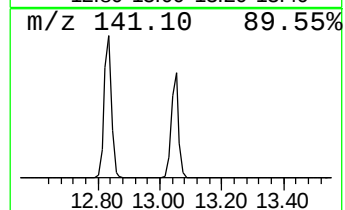
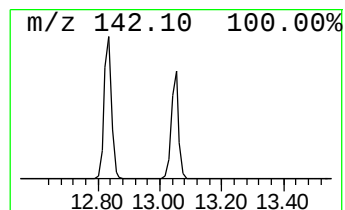
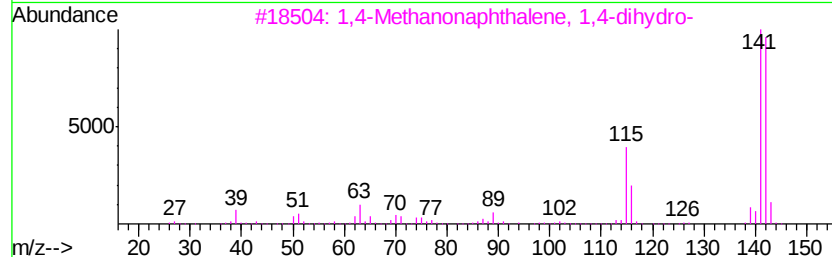
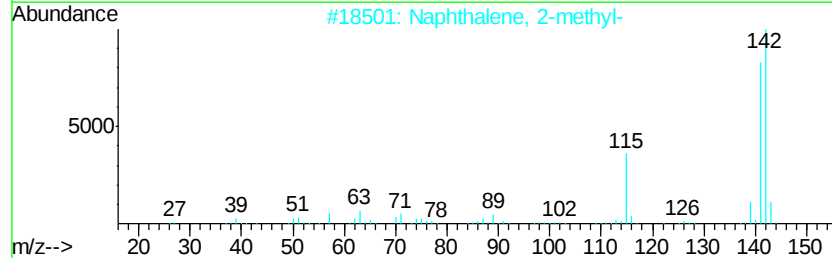
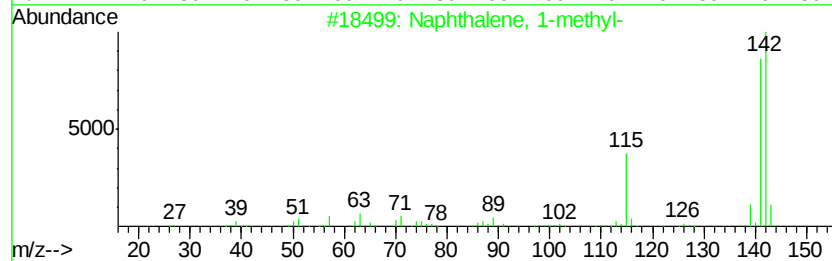
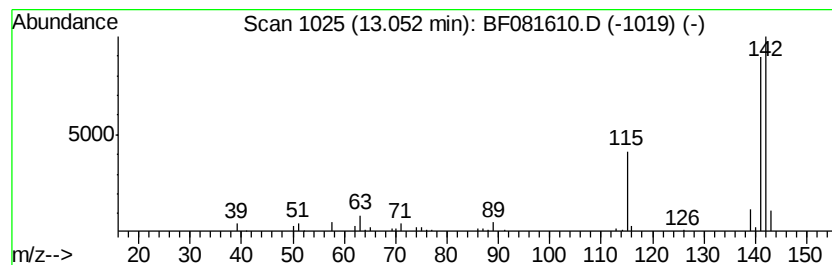
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TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 Naphthalene, 1-methyl- Concentration Rank 14

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 13.05 | 5.95 ng | 158958 | Naphthalene-d8   | 11.13 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Naphthalene, 1-methyl-              | 142 | C11H10  | 000090-12-0 | 95   |
| 2    |    | Naphthalene, 2-methyl-              | 142 | C11H10  | 000091-57-6 | 95   |
| 3    |    | 1,4-Methanonaphthalene, 1,4-dihy... | 142 | C11H10  | 004453-90-1 | 94   |
| 4    |    | Benzocycloheptatriene               | 142 | C11H10  | 000264-09-5 | 94   |
| 5    |    | Bicyclo[4.4.1]undeca-1,3,5,7,9-p... | 142 | C11H10  | 002443-46-1 | 64   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF091415\  
Data File : BF081610.D  
Acq On : 14 Sep 2015 16:24  
Operator : UM/IZ  
Sample : G3597-04 5X  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

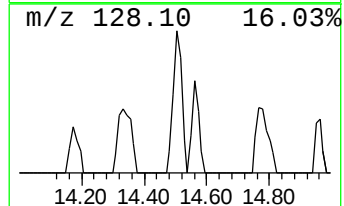
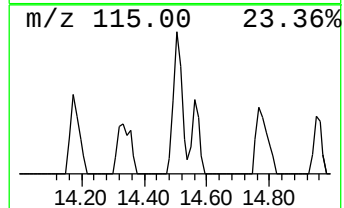
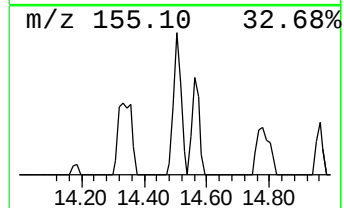
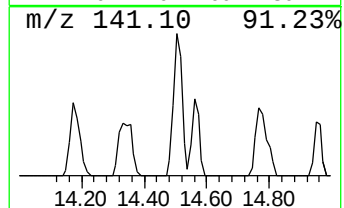
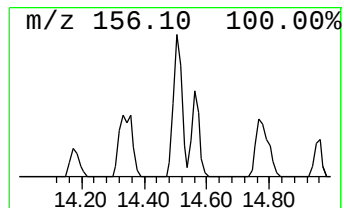
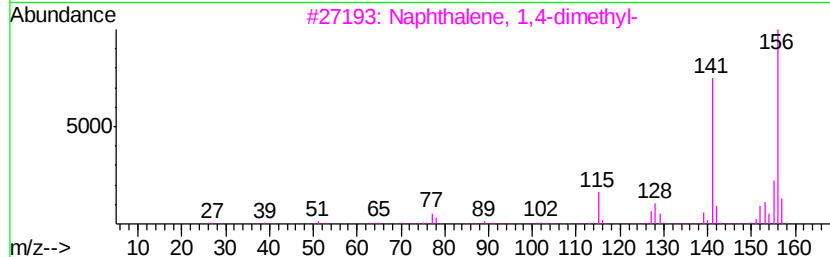
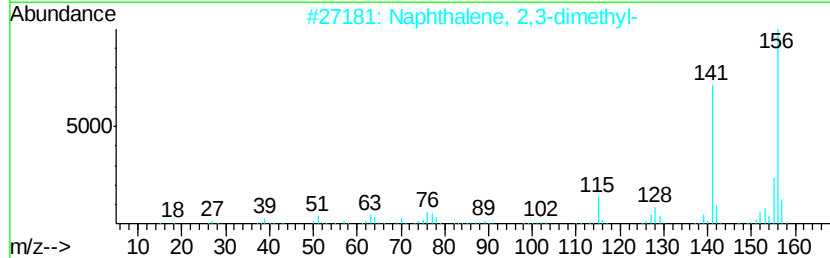
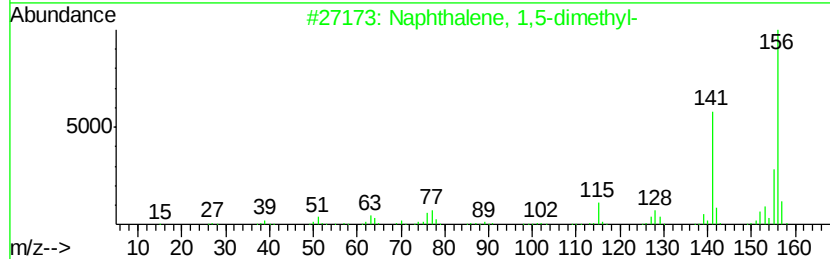
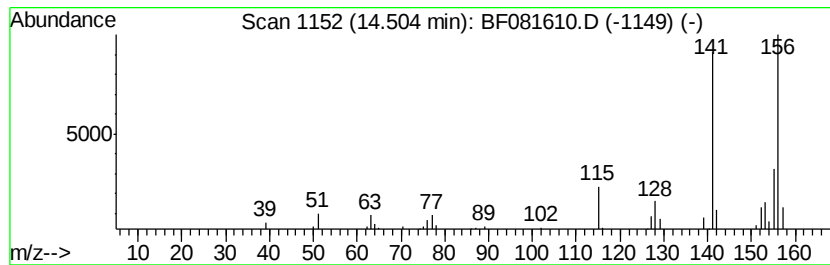
Instrument :  
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ClientSampleId :  
GP-4(0-5)

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF090115.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 6 Naphthalene, 1,5-dimethyl- Concentration Rank 16

| R.T.      | EstConc                    | Area   | Relative to ISTD | R.T.        |      |
|-----------|----------------------------|--------|------------------|-------------|------|
| 14.50     | 4.43 ng                    | 117894 | Acenaphthene-d10 | 15.27       |      |
| Hit# of 5 | Tentative ID               | MW     | MolForm          | CAS#        | Qual |
| 1         | Naphthalene, 1,5-dimethyl- | 156    | C12H12           | 000571-61-9 | 97   |
| 2         | Naphthalene, 2,3-dimethyl- | 156    | C12H12           | 000581-40-8 | 96   |
| 3         | Naphthalene, 1,4-dimethyl- | 156    | C12H12           | 000571-58-4 | 96   |
| 4         | Naphthalene, 1,6-dimethyl- | 156    | C12H12           | 000575-43-9 | 96   |
| 5         | Naphthalene, 2,6-dimethyl- | 156    | C12H12           | 000581-42-0 | 96   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF091415\  
Data File : BF081610.D  
Acq On : 14 Sep 2015 16:24  
Operator : UM/IZ  
Sample : G3597-04 5X  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
GP-4(0-5)

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF090115.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

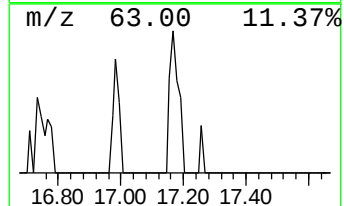
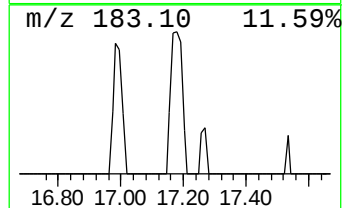
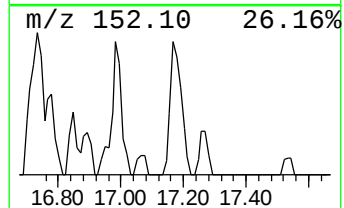
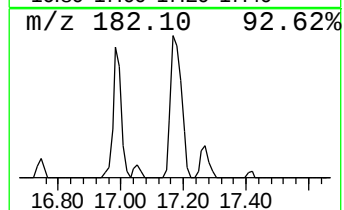
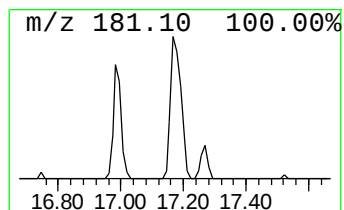
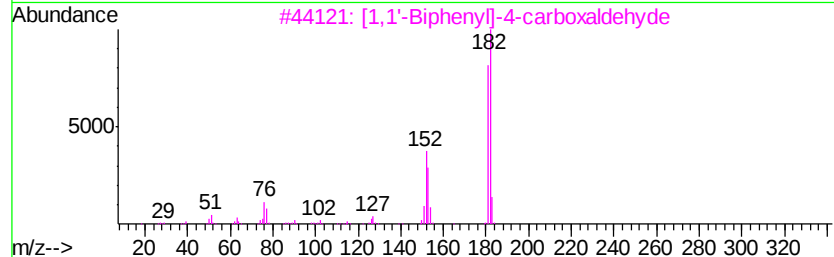
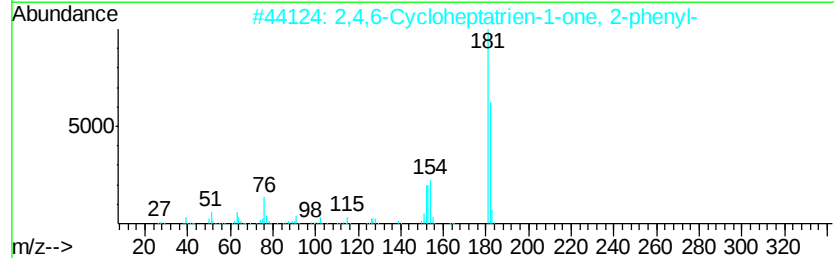
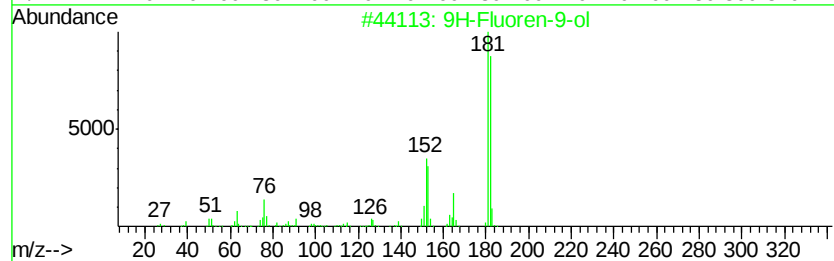
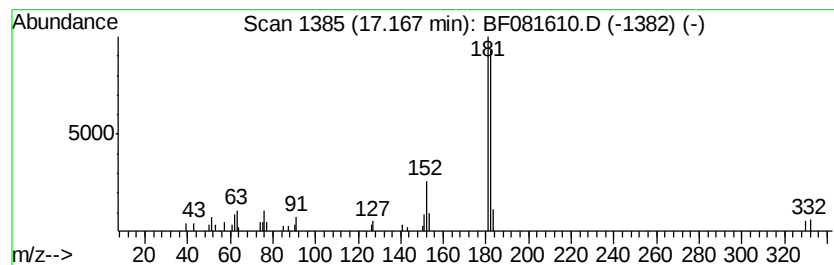
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 9H-Fluoren-9-ol Concentration Rank 20

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 17.17 | 3.61 ng | 94703 | Phenanthrene-d10 | 18.78 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | 9H-Fluoren-9-ol                     | 182 | C13H10O  | 001689-64-1 | 90   |
| 2    |    | 2,4,6-Cycloheptatrien-1-one, 2-p... | 182 | C13H10O  | 014562-09-5 | 83   |
| 3    |    | [1,1'-Biphenyl]-4-carboxaldehyde    | 182 | C13H10O  | 003218-36-8 | 74   |
| 4    |    | 2-Hydroxyfluorene                   | 182 | C13H10O  | 002443-58-5 | 64   |
| 5    |    | Pyridine, 4,4'-(1,2-ethenediyl)b... | 182 | C12H10N2 | 013362-78-2 | 59   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF091415\  
Data File : BF081610.D  
Acq On : 14 Sep 2015 16:24  
Operator : UM/IZ  
Sample : G3597-04 5X  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
GP-4(0-5)

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF090115.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

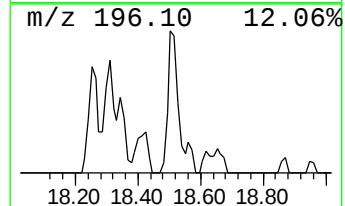
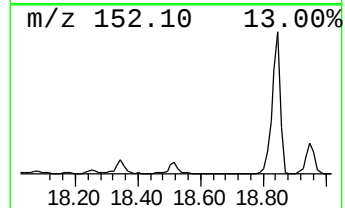
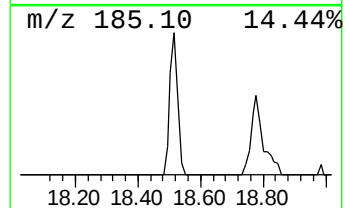
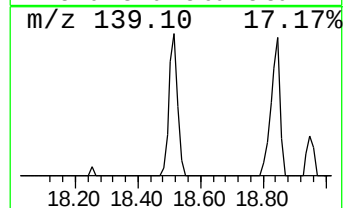
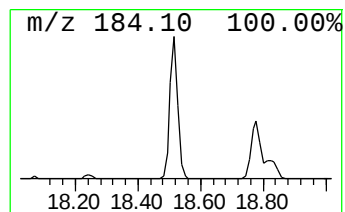
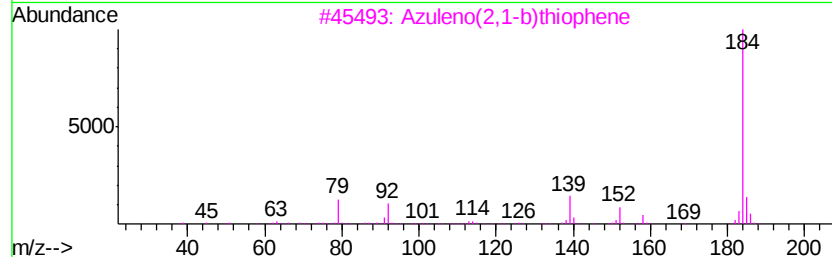
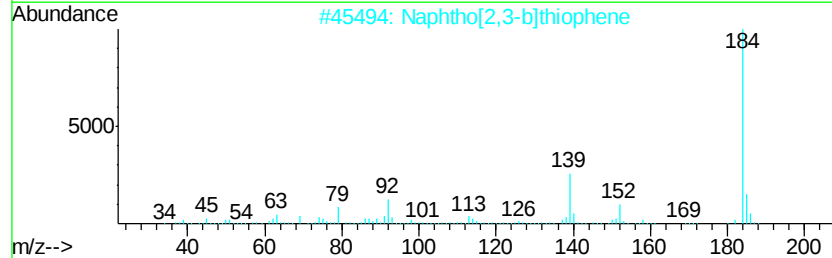
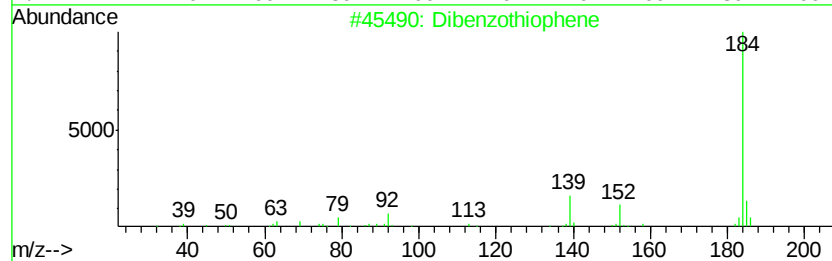
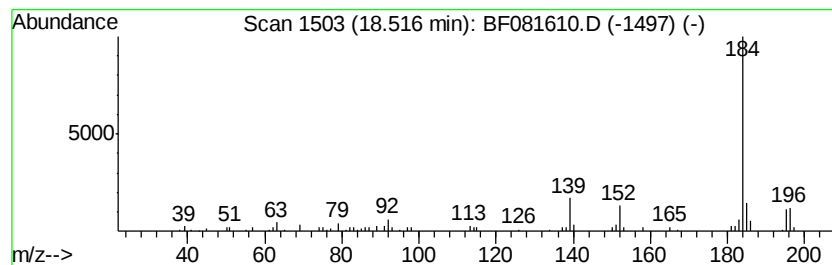
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 8 Dibenzothiophene Concentration Rank 12

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 18.52 | 6.94 ng | 181929 | Phenanthrene-d10 | 18.78 |

| Hit# of | 5 | Tentative ID                        | MW  | MolForm | CAS#         | Qual |
|---------|---|-------------------------------------|-----|---------|--------------|------|
| 1       |   | Dibenzothiophene                    | 184 | C12H8S  | 000132-65-0  | 96   |
| 2       |   | Naphtho[2,3-b]thiophene             | 184 | C12H8S  | 000268-77-9  | 93   |
| 3       |   | Azuleno(2,1-b)thiophene             | 184 | C12H8S  | 000248-13-5  | 87   |
| 4       |   | Naphthalene, 2-ethenyl-6-methoxy-   | 184 | C13H12O | 063444-51-9  | 58   |
| 5       |   | 2,7-Diamino-quinoline-3-carbonit... | 184 | C10H8N4 | 1000187-24-4 | 50   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF091415\  
Data File : BF081610.D  
Acq On : 14 Sep 2015 16:24  
Operator : UM/IZ  
Sample : G3597-04 5X  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
GP-4(0-5)

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF090115.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

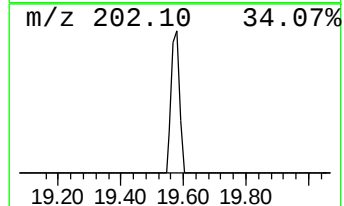
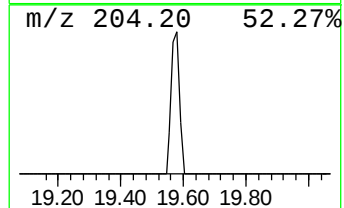
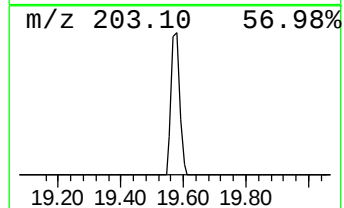
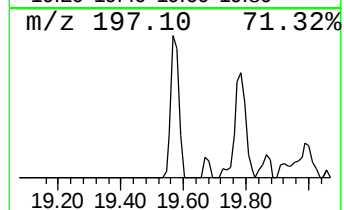
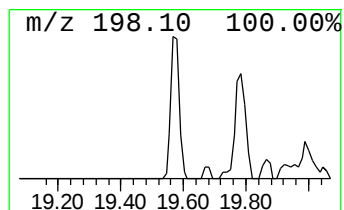
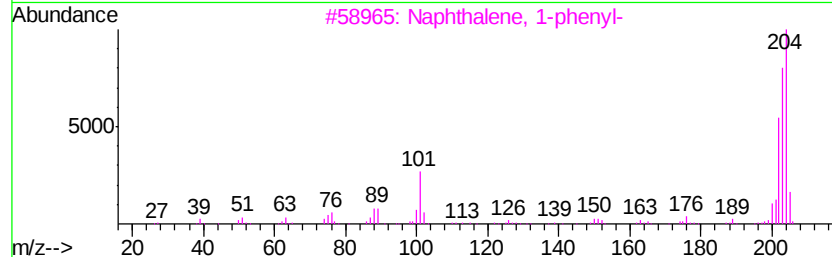
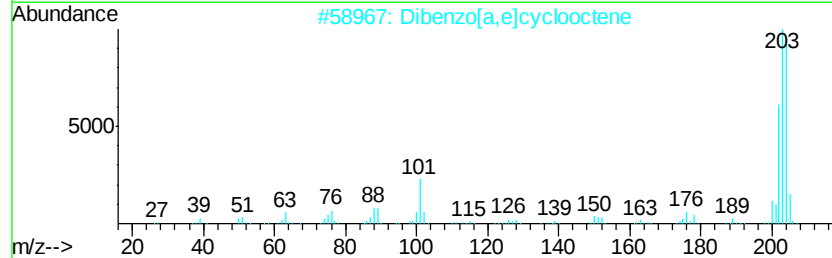
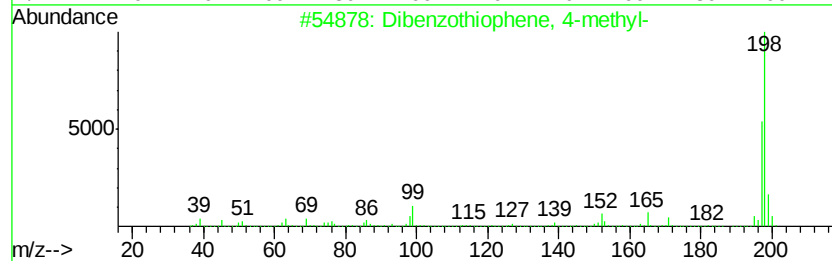
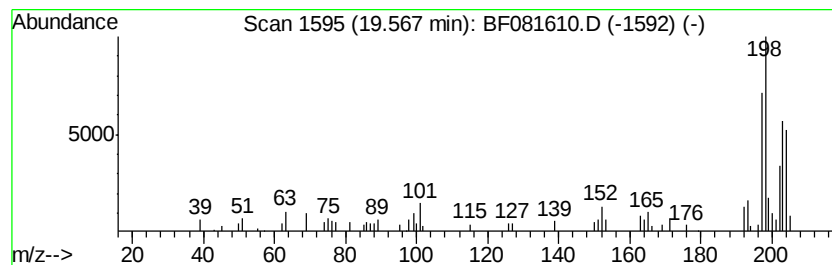
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 9 Dibenzothiophene, 4-methyl- Concentration Rank 19

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 19.57 | 3.71 ng | 97288 | Phenanthrene-d10 | 18.78 |

| Hit# | of | Tentative ID                | MW  | MolForm  | CAS#        | Qual |
|------|----|-----------------------------|-----|----------|-------------|------|
| 1    | 5  | Dibenzothiophene, 4-methyl- | 198 | C13H10S  | 007372-88-5 | 64   |
| 2    |    | Dibenzo[a,e]cyclooctene     | 204 | C16H12   | 000262-89-5 | 60   |
| 3    |    | Naphthalene, 1-phenyl-      | 204 | C16H12   | 000605-02-7 | 60   |
| 4    |    | Dibenzothiophene, 3-methyl- | 198 | C13H10S  | 016587-52-3 | 55   |
| 5    |    | 2-Biphenylcarboxylic acid   | 198 | C13H10O2 | 000947-84-2 | 45   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF091415\  
Data File : BF081610.D  
Acq On : 14 Sep 2015 16:24  
Operator : UM/IZ  
Sample : G3597-04 5X  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
GP-4(0-5)

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF090115.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

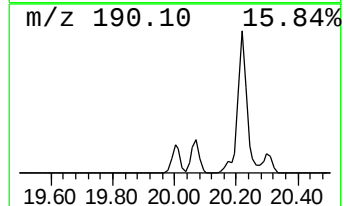
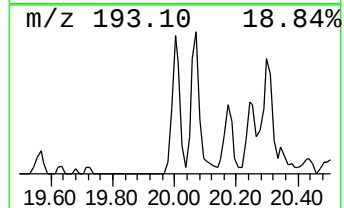
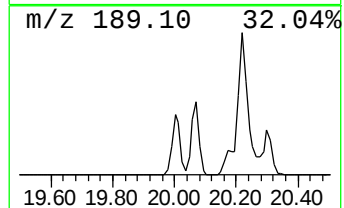
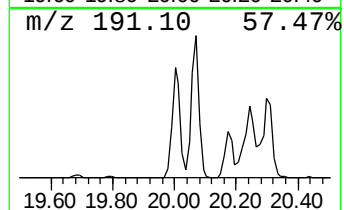
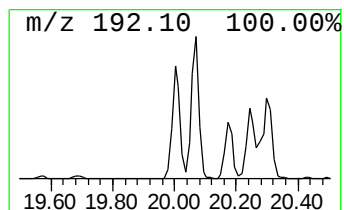
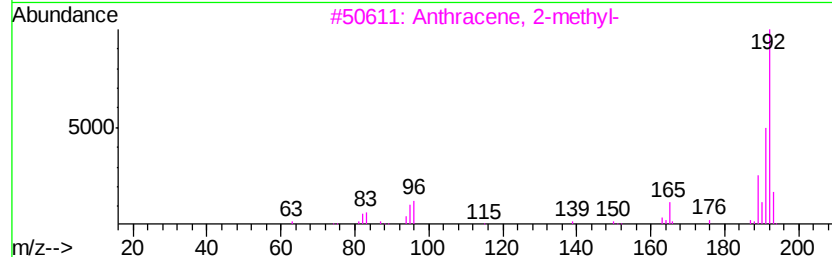
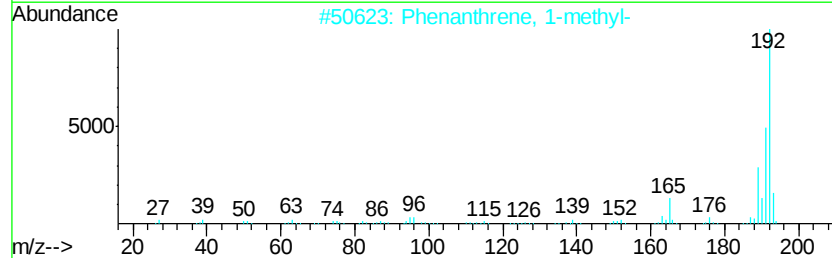
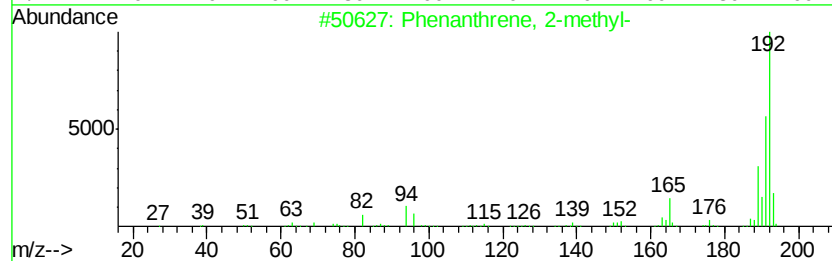
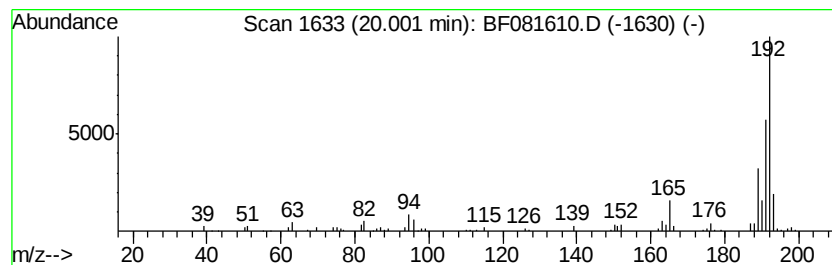
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 10 Phenanthrene, 2-methyl- Concentration Rank 6

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 20.00 | 11.00 ng | 288595 | Phenanthrene-d10 | 18.78 |

| Hit# | of | 5 | Tentative ID                          | MW  | MolForm | CAS#        | Qual |
|------|----|---|---------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Phenanthrene, 2-methyl-               | 192 | C15H12  | 002531-84-2 | 98   |
| 2    |    |   | Phenanthrene, 1-methyl-               | 192 | C15H12  | 000832-69-9 | 96   |
| 3    |    |   | Anthracene, 2-methyl-                 | 192 | C15H12  | 000613-12-7 | 95   |
| 4    |    |   | Phenanthrene, 4-methyl-               | 192 | C15H12  | 000832-64-4 | 95   |
| 5    |    |   | 1H-Cyclopropa[1]phenanthrene, 1a, ... | 192 | C15H12  | 000949-41-7 | 95   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF091415\  
Data File : BF081610.D  
Acq On : 14 Sep 2015 16:24  
Operator : UM/IZ  
Sample : G3597-04 5X  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

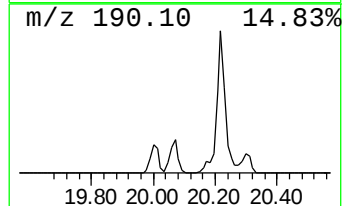
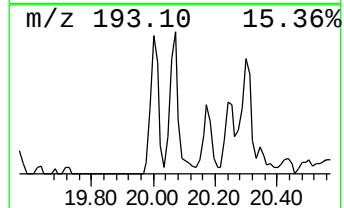
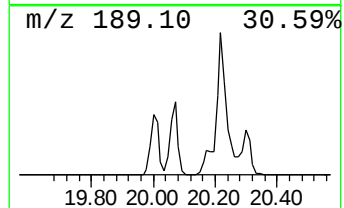
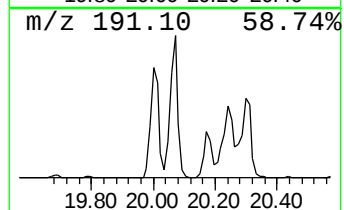
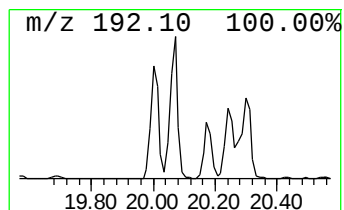
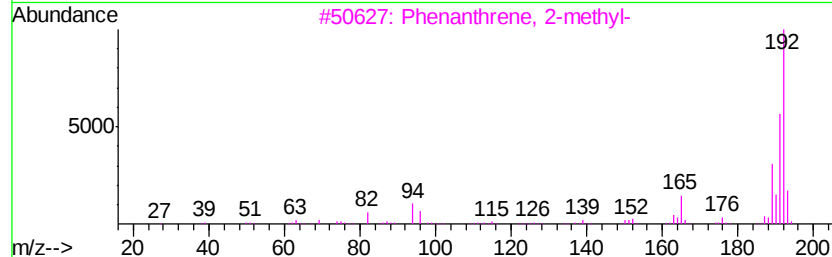
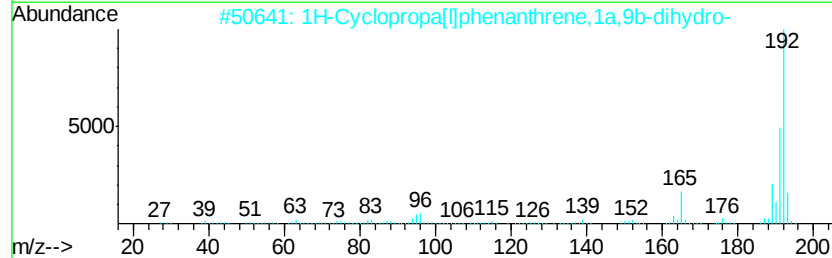
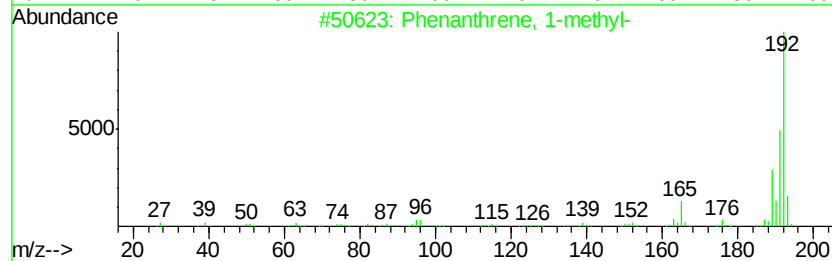
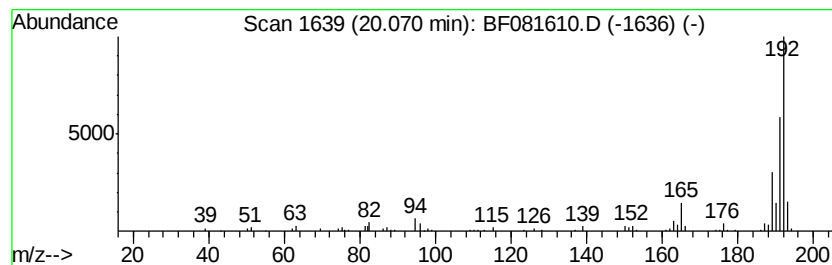
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ClientSampleId :  
GP-4(0-5)

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 11 Phenanthrene, 1-methyl- Concentration Rank 5

| R.T.      | EstConc                             | Area   | Relative to ISTD | R.T.        |      |
|-----------|-------------------------------------|--------|------------------|-------------|------|
| 20.07     | 12.15 ng                            | 318557 | Phenanthrene-d10 | 18.78       |      |
| Hit# of 5 | Tentative ID                        | MW     | MolForm          | CAS#        | Qual |
| 1         | Phenanthrene, 1-methyl-             | 192    | C15H12           | 000832-69-9 | 97   |
| 2         | 1H-Cyclopropa[1]phenanthrene,1a,... | 192    | C15H12           | 000949-41-7 | 96   |
| 3         | Phenanthrene, 2-methyl-             | 192    | C15H12           | 002531-84-2 | 95   |
| 4         | Anthracene, 2-methyl-               | 192    | C15H12           | 000613-12-7 | 95   |
| 5         | Phenanthrene, 4-methyl-             | 192    | C15H12           | 000832-64-4 | 95   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF091415\  
Data File : BF081610.D  
Acq On : 14 Sep 2015 16:24  
Operator : UM/IZ  
Sample : G3597-04 5X  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
GP-4(0-5)

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF090115.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

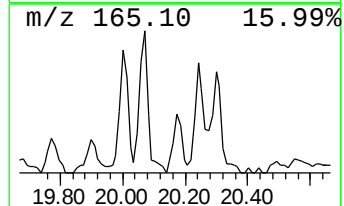
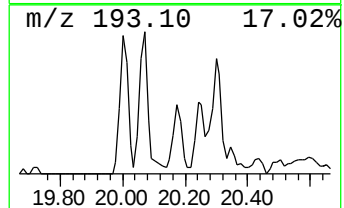
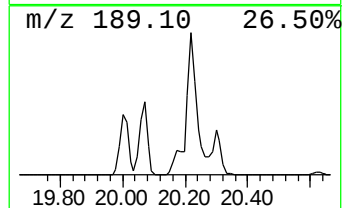
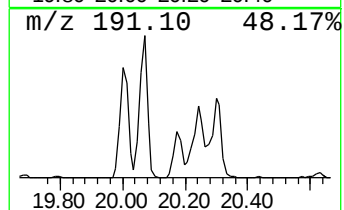
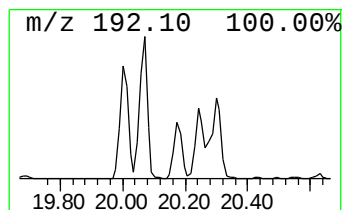
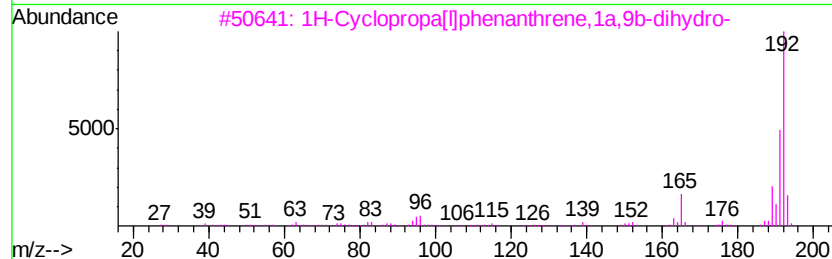
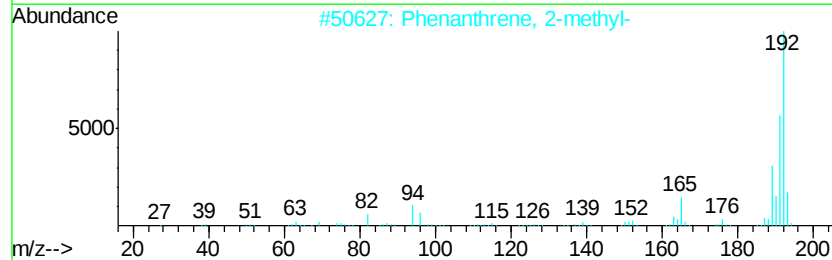
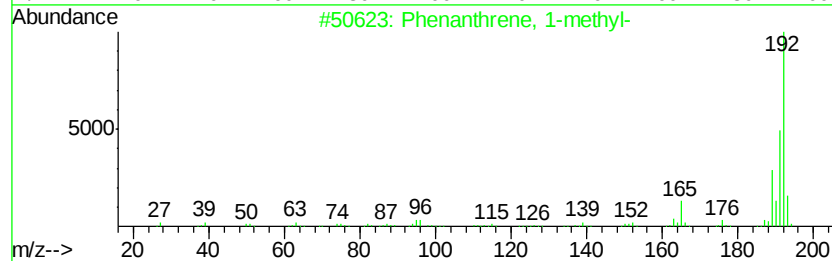
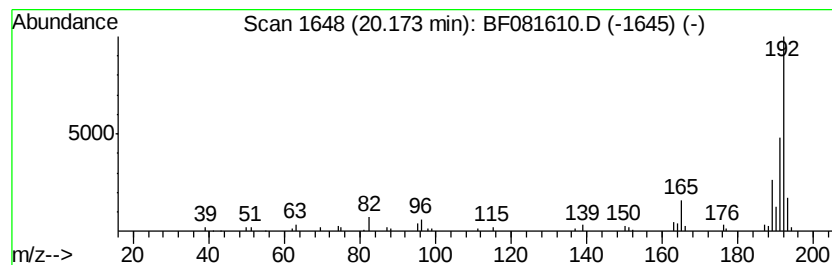
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TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 12 1H-Cyclopropa[l]phenanthren... Concentration Rank 15

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 20.17 | 5.18 ng | 135753 | Phenanthrene-d10 | 18.78 |

| Hit# | of | 5 | Tentative ID                          | MW  | MolForm | CAS#        | Qual |
|------|----|---|---------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Phenanthrene, 1-methyl-               | 192 | C15H12  | 000832-69-9 | 96   |
| 2    |    |   | Phenanthrene, 2-methyl-               | 192 | C15H12  | 002531-84-2 | 96   |
| 3    |    |   | 1H-Cyclopropa[l]phenanthrene, 1a, ... | 192 | C15H12  | 000949-41-7 | 95   |
| 4    |    |   | Anthracene, 2-methyl-                 | 192 | C15H12  | 000613-12-7 | 95   |
| 5    |    |   | Anthracene, 9-methyl-                 | 192 | C15H12  | 000779-02-2 | 94   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF091415\  
Data File : BF081610.D  
Acq On : 14 Sep 2015 16:24  
Operator : UM/IZ  
Sample : G3597-04 5X  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

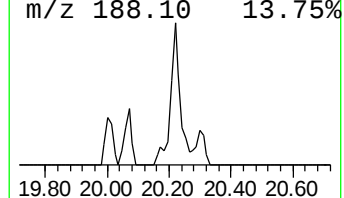
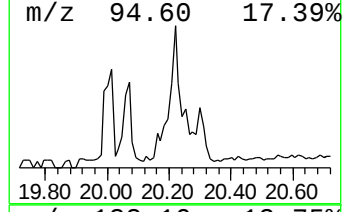
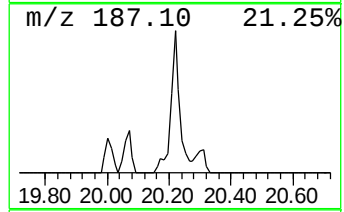
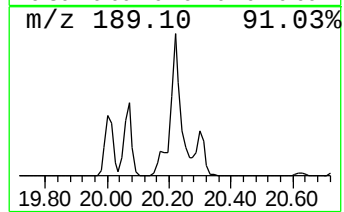
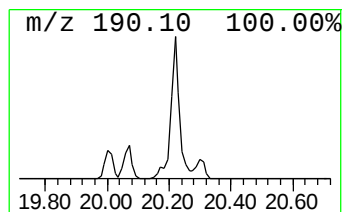
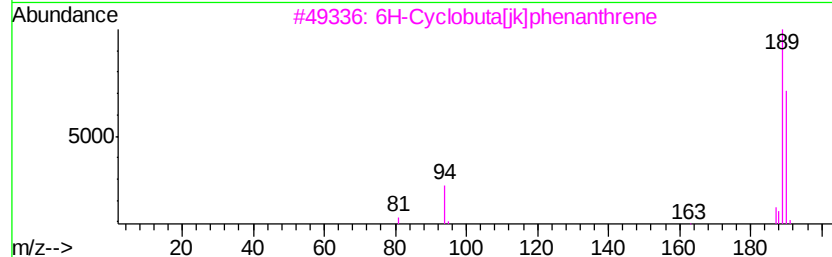
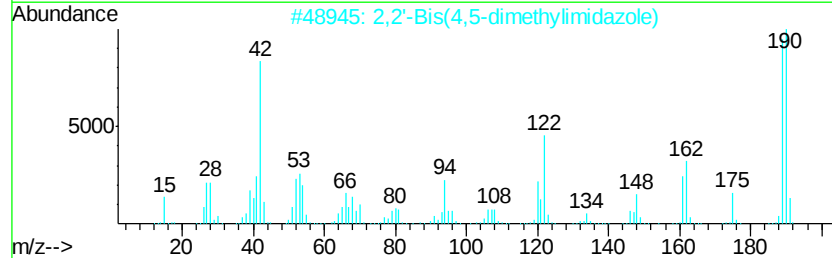
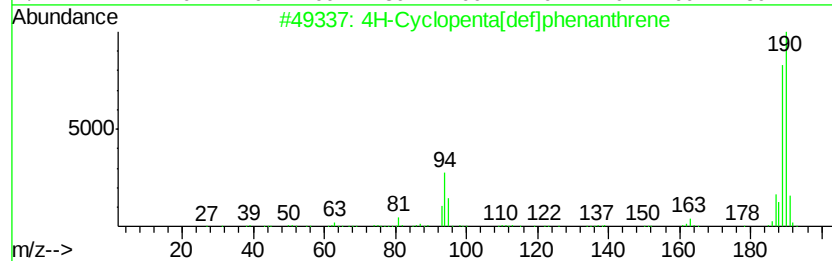
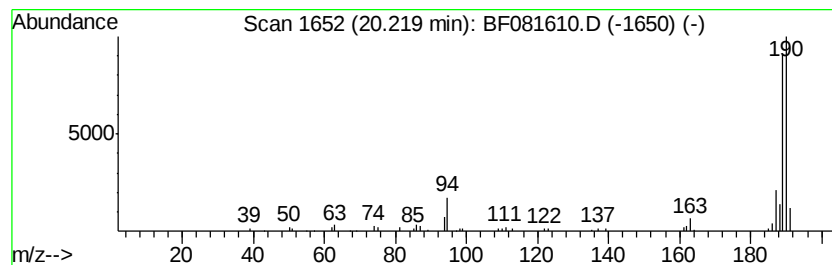
Instrument :  
BNA\_F  
ClientSampleId :  
GP-4(0-5)

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF090115.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 13 4H-Cyclopenta[def]phenanthrene Concentration Rank 4

| R.T.    | EstConc  | Area                                | Relative to ISTD | R.T.      |              |      |
|---------|----------|-------------------------------------|------------------|-----------|--------------|------|
| 20.22   | 13.70 ng | 359193                              | Phenanthrene-d10 | 18.78     |              |      |
| Hit# of | 5        | Tentative ID                        | MW               | MolForm   | CAS#         | Qual |
| 1       |          | 4H-Cyclopenta[def]phenanthrene      | 190              | C15H10    | 000203-64-5  | 91   |
| 2       |          | 2,2'-Bis(4,5-dimethylimidazole)     | 190              | C10H14N4  | 069286-06-2  | 64   |
| 3       |          | 6H-Cyclobuta[jk]phenanthrene        | 190              | C15H10    | 083469-43-6  | 45   |
| 4       |          | Pyrazole-4-carboxaldehyde, 3-(4-... | 190              | C10H7FN2O | 306936-57-2  | 38   |
| 5       |          | 4-Cyano-4-hydroxy-3-methyl-2-phe... | 216              | C13H16N2O | 1000216-11-7 | 22   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF091415\  
Data File : BF081610.D  
Acq On : 14 Sep 2015 16:24  
Operator : UM/IZ  
Sample : G3597-04 5X  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
GP-4(0-5)

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF090115.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

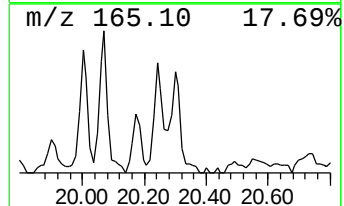
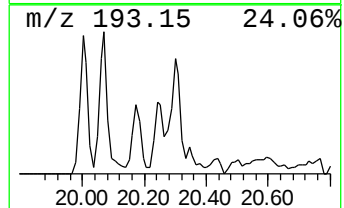
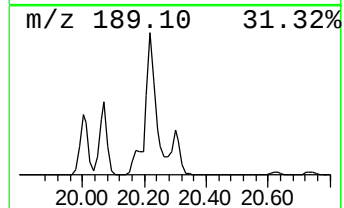
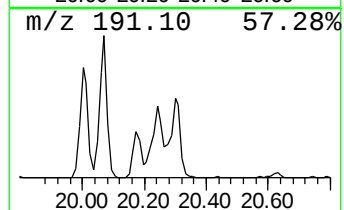
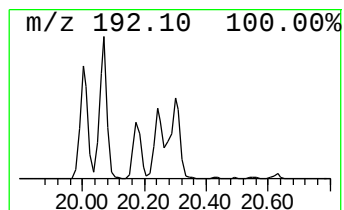
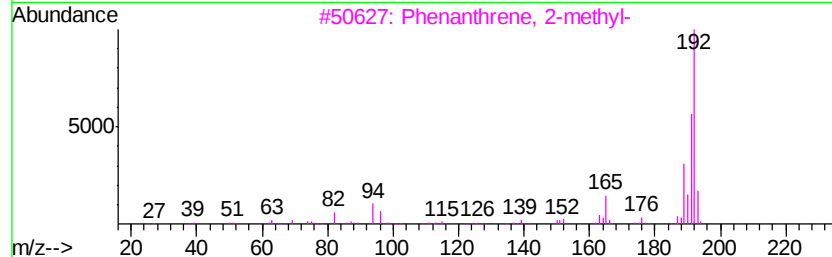
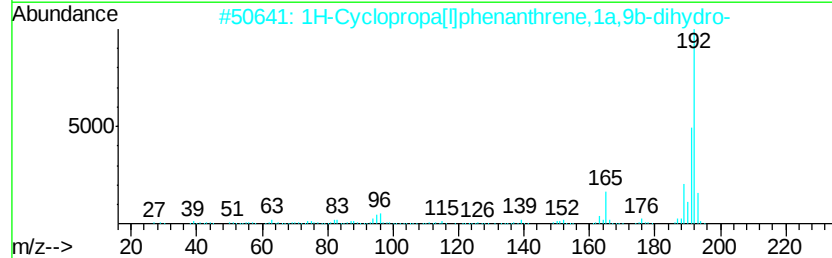
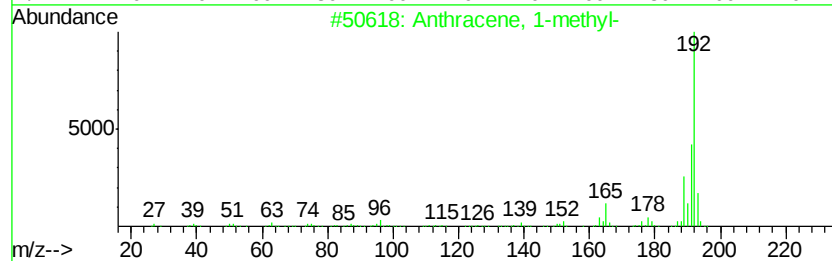
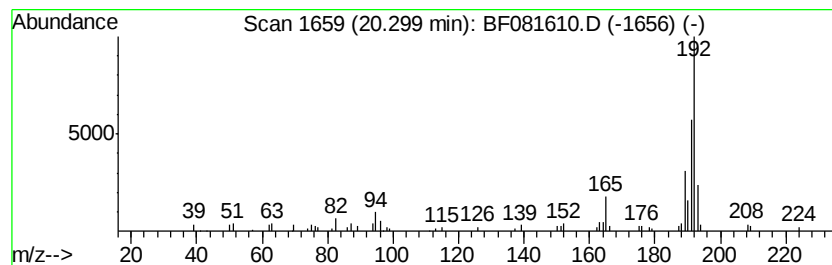
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 14 Anthracene, 1-methyl- Concentration Rank 9

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 20.30 | 9.33 ng | 244692 | Phenanthrene-d10 | 18.78 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Anthracene, 1-methyl-               | 192 | C15H12  | 000610-48-0 | 96   |
| 2    |    | 1H-Cyclopropa[1]phenanthrene,1a,... | 192 | C15H12  | 000949-41-7 | 95   |
| 3    |    | Phenanthrene, 2-methyl-             | 192 | C15H12  | 002531-84-2 | 93   |
| 4    |    | Anthracene, 9-methyl-               | 192 | C15H12  | 000779-02-2 | 81   |
| 5    |    | Anthracene, 2-methyl-               | 192 | C15H12  | 000613-12-7 | 81   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF091415\  
Data File : BF081610.D  
Acq On : 14 Sep 2015 16:24  
Operator : UM/IZ  
Sample : G3597-04 5X  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
GP-4(0-5)

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF090115.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

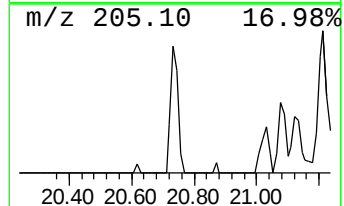
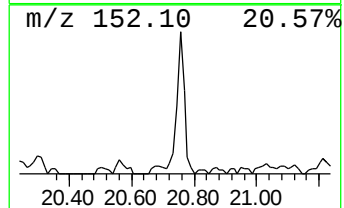
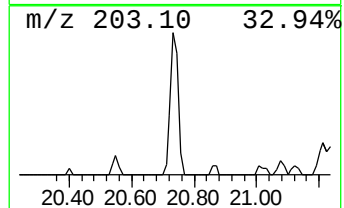
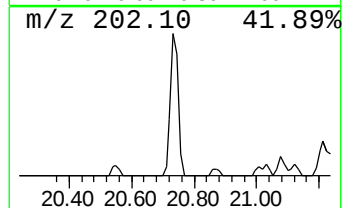
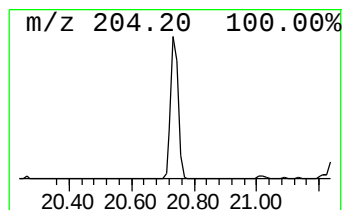
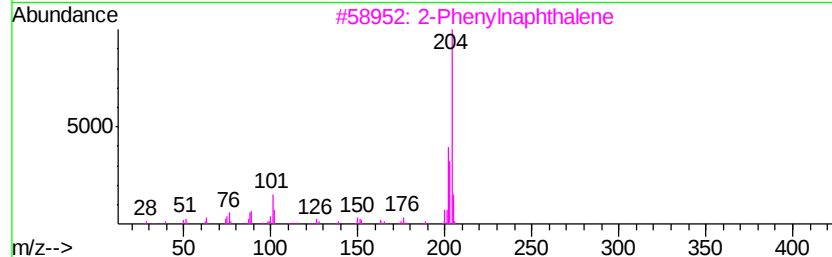
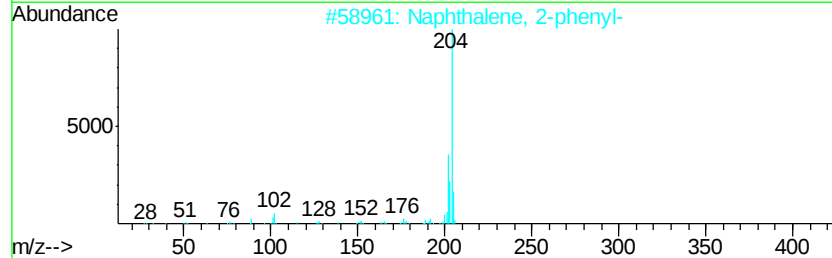
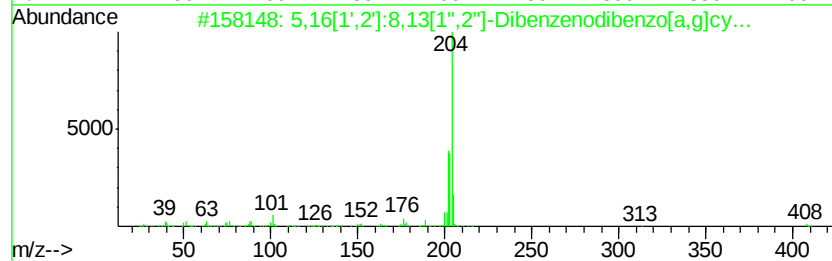
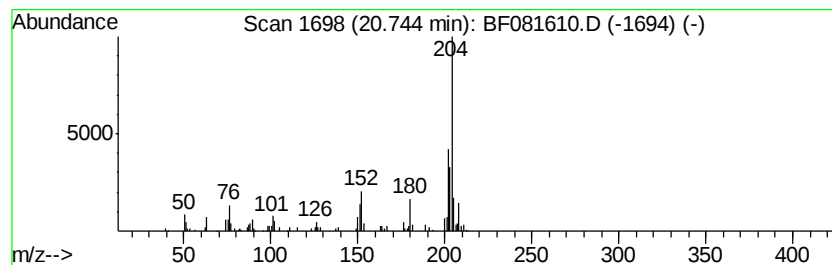
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 15 5,16[1',2']:8,13[1'',2'']-D... Concentration Rank 7

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 20.74 | 10.48 ng | 274716 | Phenanthrene-d10 | 18.78 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | 5,16[1',2']:8,13[1'',2'']-Dibenz... | 408 | C32H24  | 005672-97-9 | 58   |
| 2    |    | Naphthalene, 2-phenyl-              | 204 | C16H12  | 000612-94-2 | 55   |
| 3    |    | 2-Phenylnaphthalene                 | 204 | C16H12  | 035465-71-5 | 43   |
| 4    |    | [1,1'-Biphenyl]-2,2'-dicarbonitrile | 204 | C14H8N2 | 004341-02-0 | 38   |
| 5    |    | Benzene, 1,1'-(1-buten-3-yne-1,4... | 204 | C16H12  | 013141-45-2 | 38   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF091415\  
Data File : BF081610.D  
Acq On : 14 Sep 2015 16:24  
Operator : UM/IZ  
Sample : G3597-04 5X  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
GP-4(0-5)

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF090115.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

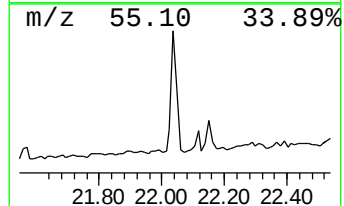
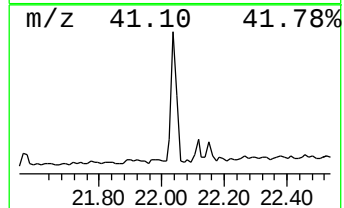
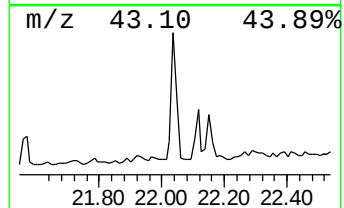
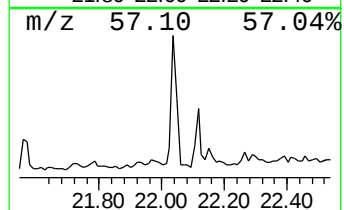
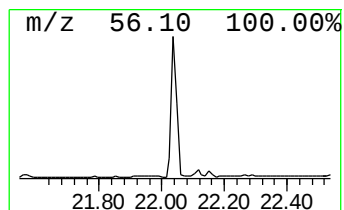
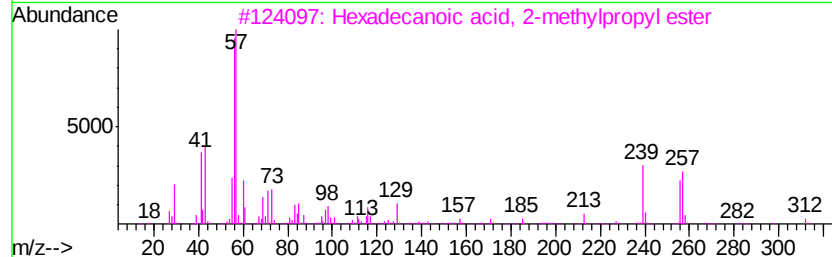
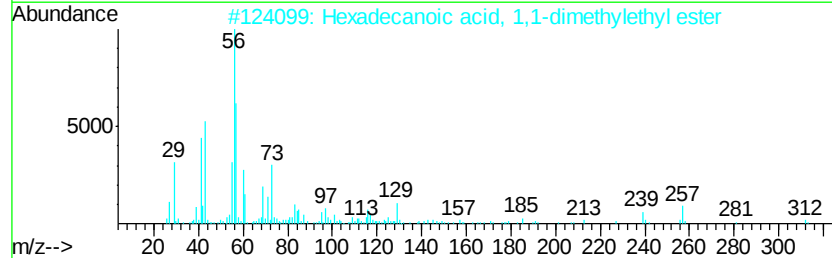
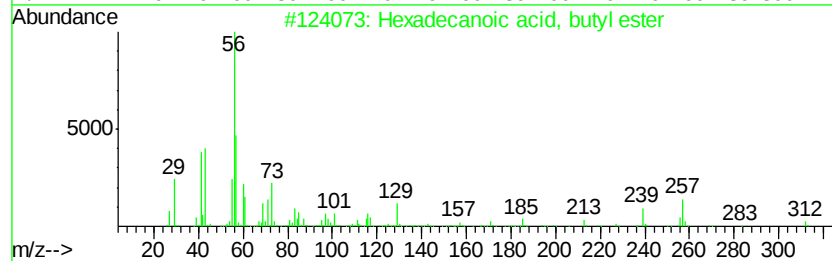
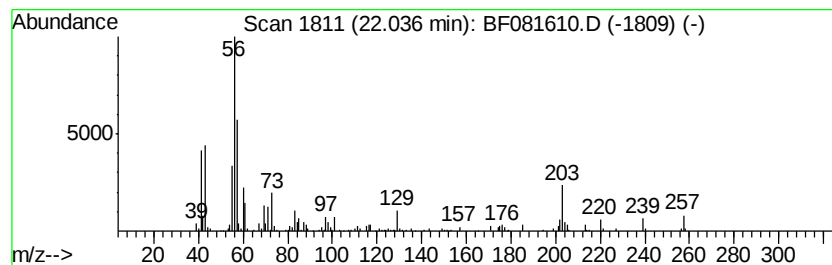
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 16 Hexadecanoic acid, butyl ester Concentration Rank 11

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 22.04 | 7.52 ng | 362521 | Chrysene-d12     | 23.40 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|----------|-------------|------|
| 1    |    |   | Hexadecanoic acid, butyl ester      | 312 | C20H40O2 | 000111-06-8 | 87   |
| 2    |    |   | Hexadecanoic acid, 1,1-dimethyle... | 312 | C20H40O2 | 031158-91-5 | 72   |
| 3    |    |   | Hexadecanoic acid, 2-methylpropy... | 312 | C20H40O2 | 000110-34-9 | 59   |
| 4    |    |   | Cyclopentanecarboxylic acid, 2-a... | 129 | C6H11NO2 | 040482-05-1 | 43   |
| 5    |    |   | Cyclobutane, 1-hexyl-2,3-dimethyl-  | 168 | C12H24   | 055170-84-8 | 35   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF091415\  
Data File : BF081610.D  
Acq On : 14 Sep 2015 16:24  
Operator : UM/IZ  
Sample : G3597-04 5X  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
GP-4(0-5)

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF090115.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

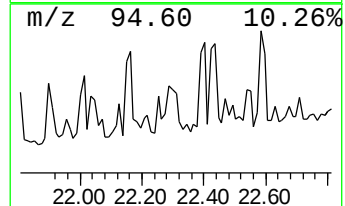
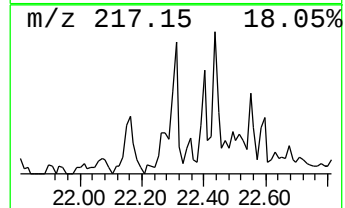
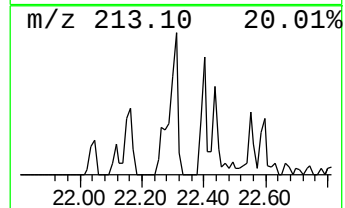
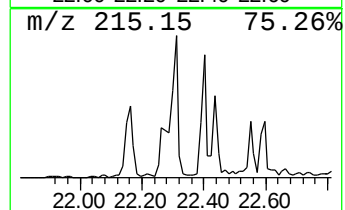
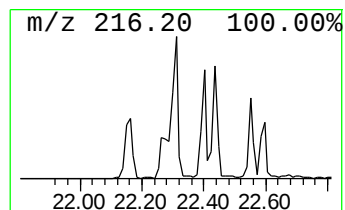
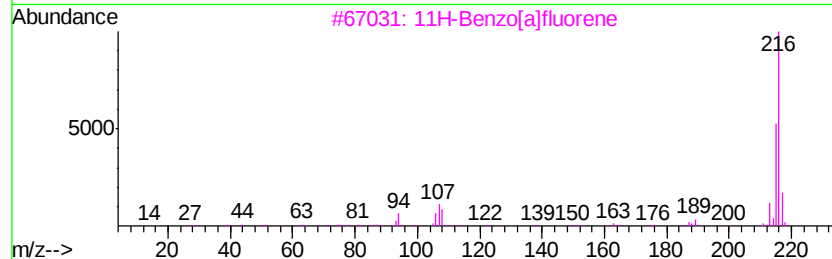
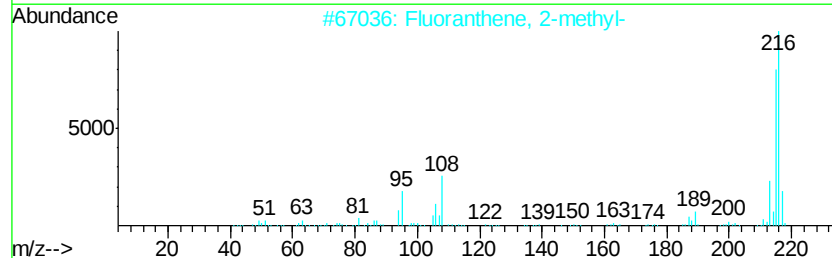
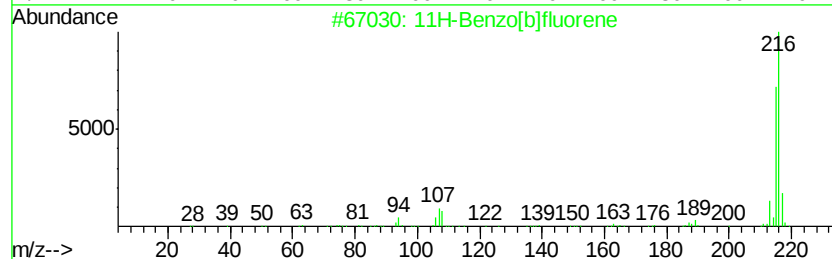
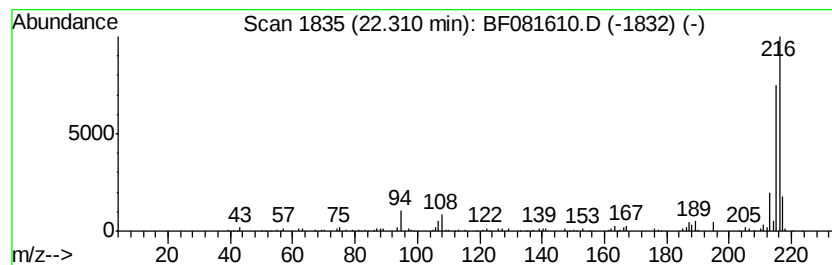
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 17 11H-Benzo[b]fluorene Concentration Rank 18

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 22.31 | 4.15 ng | 199807 | Chrysene-d12     | 23.40 |

| Hit# | of | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------|-----|---------|-------------|------|
| 1    | 5  | 11H-Benzo[b]fluorene    | 216 | C17H12  | 000243-17-4 | 93   |
| 2    |    | Fluoranthene, 2-methyl- | 216 | C17H12  | 033543-31-6 | 91   |
| 3    |    | 11H-Benzo[a]fluorene    | 216 | C17H12  | 000238-84-6 | 90   |
| 4    |    | Pyrene, 1-methyl-       | 216 | C17H12  | 002381-21-7 | 83   |
| 5    |    | 7H-Benzo[c]fluorene     | 216 | C17H12  | 000205-12-9 | 72   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF091415\  
Data File : BF081610.D  
Acq On : 14 Sep 2015 16:24  
Operator : UM/IZ  
Sample : G3597-04 5X  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

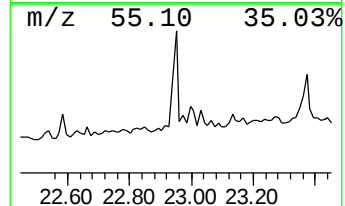
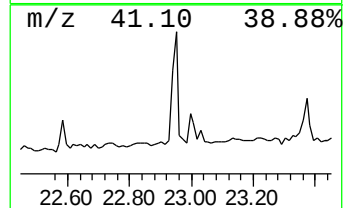
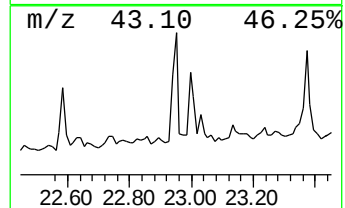
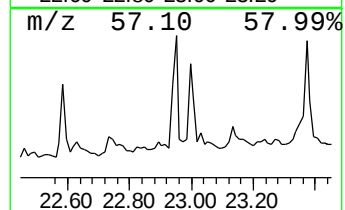
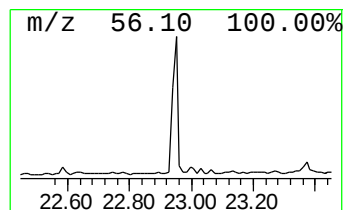
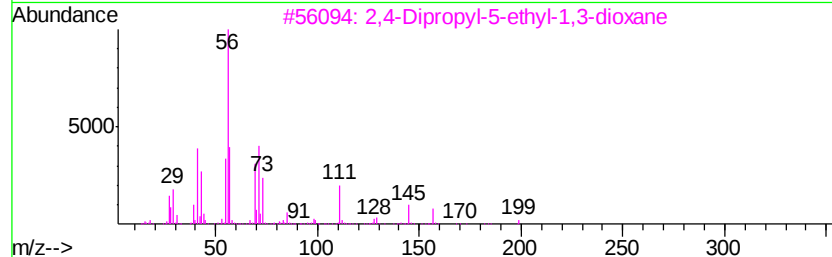
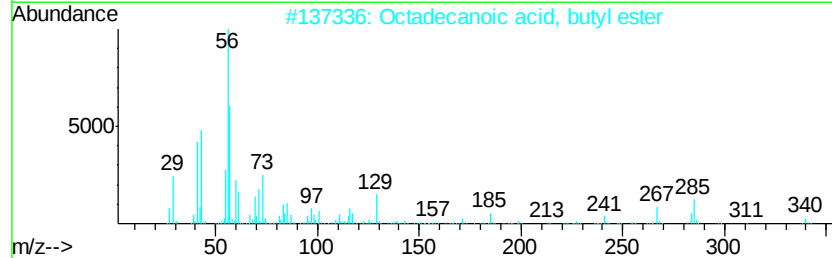
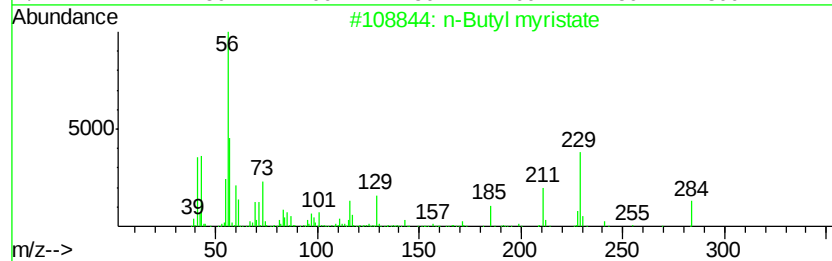
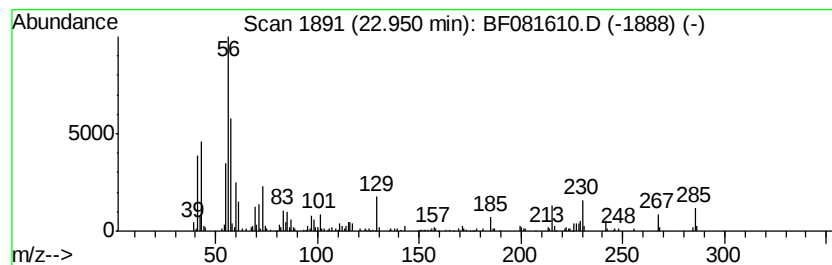
Instrument :  
BNA\_F  
ClientSampleId :  
GP-4(0-5)

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF090115.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 18 n-Butyl myristate Concentration Rank 13

| R.T.      | EstConc                          | Area   | Relative to ISTD | R.T.        |      |
|-----------|----------------------------------|--------|------------------|-------------|------|
| 22.95     | 6.57 ng                          | 316515 | Chrysene-d12     | 23.40       |      |
| Hit# of 5 | Tentative ID                     | MW     | MolForm          | CAS#        | Qual |
| 1         | n-Butyl myristate                | 284    | C18H36O2         | 000110-36-1 | 80   |
| 2         | Octadecanoic acid, butyl ester   | 340    | C22H44O2         | 000123-95-5 | 49   |
| 3         | 2,4-Dipropyl-5-ethyl-1,3-dioxane | 200    | C12H24O2         | 006413-83-8 | 38   |
| 4         | Decane, 2,2,3-trimethyl-         | 184    | C13H28           | 062338-09-4 | 32   |
| 5         | Pentane, 2,3-dimethyl-           | 100    | C7H16            | 000565-59-3 | 32   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF091415\  
Data File : BF081610.D  
Acq On : 14 Sep 2015 16:24  
Operator : UM/IZ  
Sample : G3597-04 5X  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
GP-4(0-5)

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF090115.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

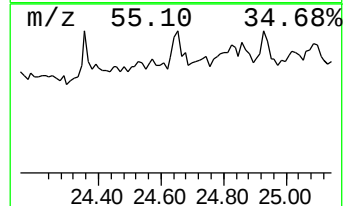
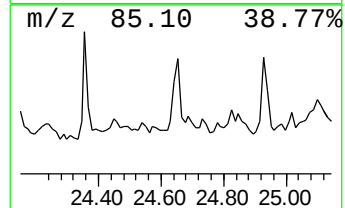
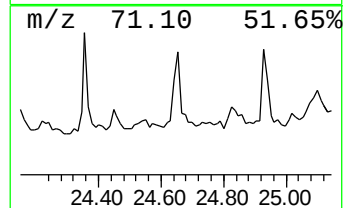
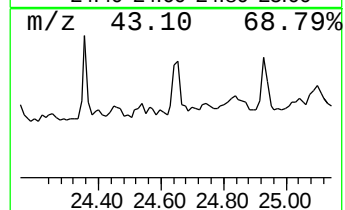
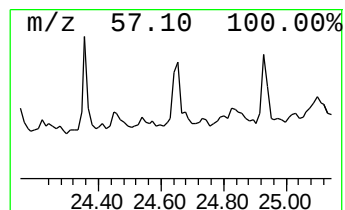
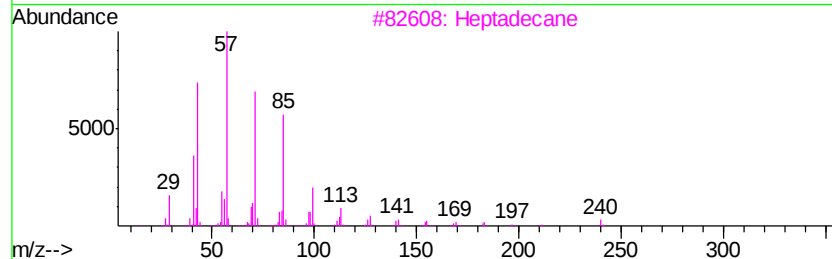
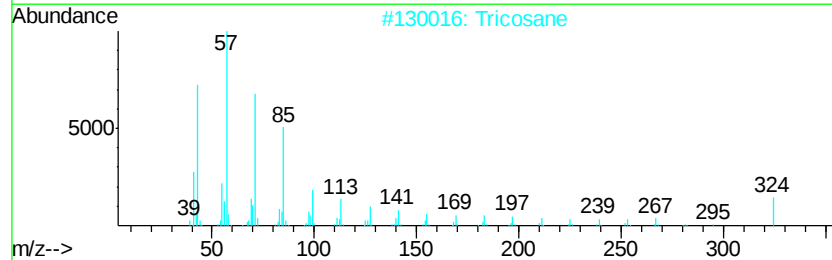
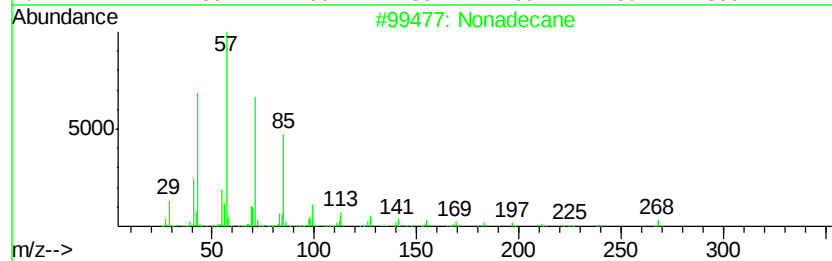
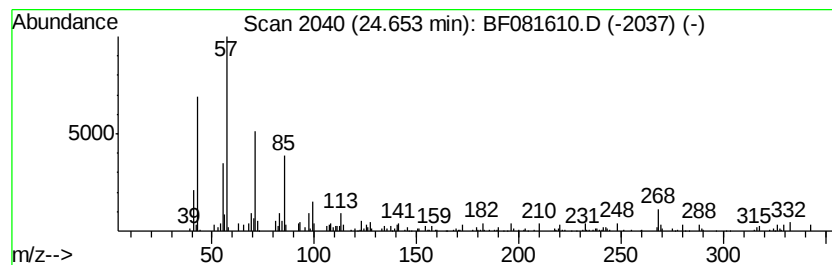
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 19 Nonadecane Concentration Rank 10

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 24.65 | 7.62 ng | 171759 | Perylene-d12     | 24.84 |

| Hit# | of | Tentative ID          | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------|-----|---------|-------------|------|
| 1    | 5  | Nonadecane            | 268 | C19H40  | 000629-92-5 | 70   |
| 2    |    | Tricosane             | 324 | C23H48  | 000638-67-5 | 53   |
| 3    |    | Heptadecane           | 240 | C17H36  | 000629-78-7 | 49   |
| 4    |    | Tridecane, 1-iodo-    | 310 | C13H27I | 035599-77-0 | 49   |
| 5    |    | Octadecane, 2-methyl- | 268 | C19H40  | 001560-88-9 | 49   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF091415\  
Data File : BF081610.D  
Acq On : 14 Sep 2015 16:24  
Operator : UM/IZ  
Sample : G3597-04 5X  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
GP-4(0-5)

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF090115.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

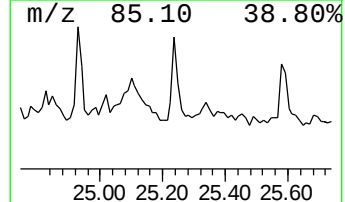
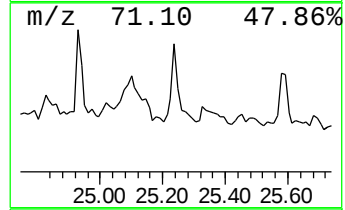
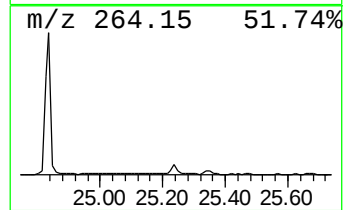
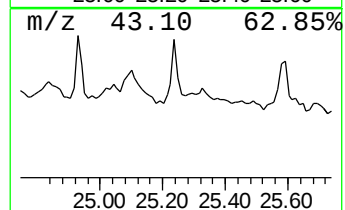
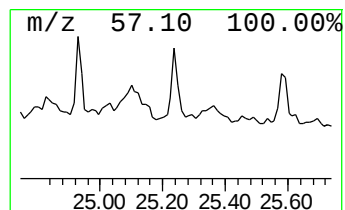
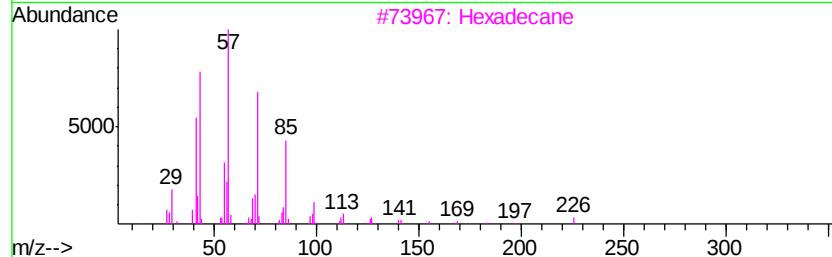
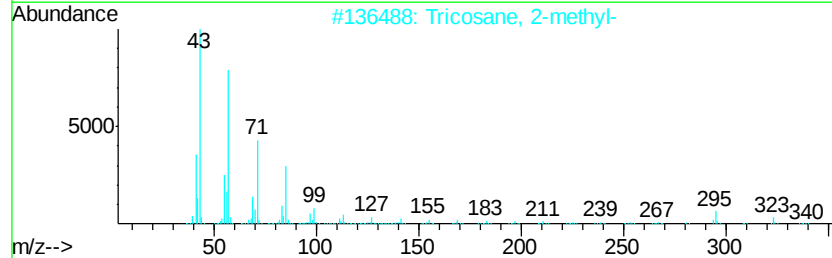
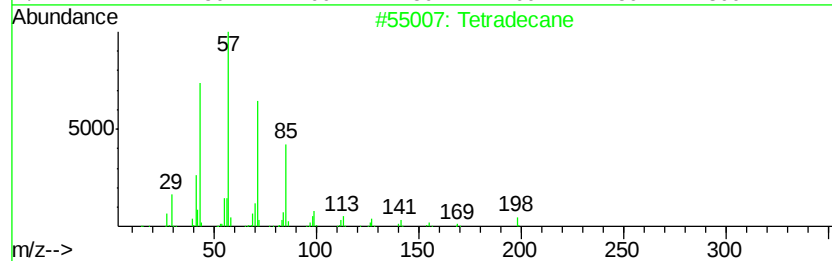
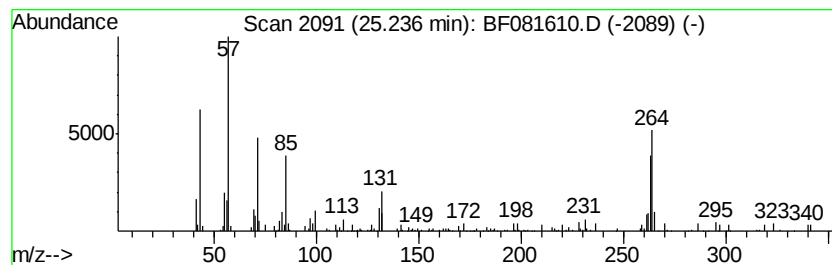
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 20 unknown25.24 Concentration Rank 17

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 25.24 | 4.21 ng | 94995 | Perylene-d12     | 24.84 |

| Hit# | of | Tentative ID              | MW  | MolForm | CAS#        | Qual |
|------|----|---------------------------|-----|---------|-------------|------|
| 1    | 5  | Tetradecane               | 198 | C14H30  | 000629-59-4 | 38   |
| 2    |    | Tricosane, 2-methyl-      | 338 | C24H50  | 001928-30-9 | 27   |
| 3    |    | Hexadecane                | 226 | C16H34  | 000544-76-3 | 25   |
| 4    |    | Eicosane                  | 282 | C20H42  | 000112-95-8 | 25   |
| 5    |    | Octadecane, 5,14-dibutyl- | 366 | C26H54  | 055282-13-8 | 25   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF091415\  
 Data File : BF081610.D  
 Acq On : 14 Sep 2015 16:24  
 Operator : UM/IZ  
 Sample : G3597-04 5X  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 GP-4(0-5)

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF090115.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L  
 TIC Integration Parameters: LSCINT.P

| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |        |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|--------|------|
|                      |       |         |       |          | #                     | RT    | Resp   | Conc |
| 2-Pentanone, 4-hy... | 4.48  | 28.1    | ng    | 538358   | 1                     | 8.23  | 383031 | 20.0 |
| unknown7.75          | 7.75  | 10.0    | ng    | 190702   | 1                     | 8.23  | 383031 | 20.0 |
| Naphthalene, 1-me... | 13.05 | 6.0     | ng    | 158958   | 2                     | 11.13 | 534103 | 20.0 |
| Naphthalene, 1,5-... | 14.50 | 4.4     | ng    | 117894   | 3                     | 15.27 | 532282 | 20.0 |
| 9H-Fluoren-9-ol      | 17.17 | 3.6     | ng    | 94703    | 4                     | 18.78 | 524517 | 20.0 |
| Dibenzothiophene     | 18.52 | 6.9     | ng    | 181929   | 4                     | 18.78 | 524517 | 20.0 |
| Dibenzothiophene,... | 19.57 | 3.7     | ng    | 97288    | 4                     | 18.78 | 524517 | 20.0 |
| Phenanthrene, 2-m... | 20.00 | 11.0    | ng    | 288595   | 4                     | 18.78 | 524517 | 20.0 |
| Phenanthrene, 1-m... | 20.07 | 12.2    | ng    | 318557   | 4                     | 18.78 | 524517 | 20.0 |
| 1H-Cyclopropa[l]p... | 20.17 | 5.2     | ng    | 135753   | 4                     | 18.78 | 524517 | 20.0 |
| 4H-Cyclopenta[def... | 20.22 | 13.7    | ng    | 359193   | 4                     | 18.78 | 524517 | 20.0 |
| Anthracene, 1-met... | 20.30 | 9.3     | ng    | 244692   | 4                     | 18.78 | 524517 | 20.0 |
| 5,16[1',2']:8,13[... | 20.74 | 10.5    | ng    | 274716   | 4                     | 18.78 | 524517 | 20.0 |
| Hexadecanoic acid... | 22.04 | 7.5     | ng    | 362521   | 5                     | 23.40 | 963571 | 20.0 |
| 11H-Benzo[b]fluorene | 22.31 | 4.2     | ng    | 199807   | 5                     | 23.40 | 963571 | 20.0 |
| n-Butyl myristate    | 22.95 | 6.6     | ng    | 316515   | 5                     | 23.40 | 963571 | 20.0 |
| Nonadecane           | 24.65 | 7.6     | ng    | 171759   | 6                     | 24.84 | 450752 | 20.0 |
| unknown25.24         | 25.24 | 4.2     | ng    | 94995    | 6                     | 24.84 | 450752 | 20.0 |