

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF082019\  
 Data File : BF116456.D  
 Acq On : 21 Aug 2019 3:08  
 Operator : HP/JU  
 Sample : K4354-03 2X  
 Misc :  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PX-03-081319

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-BF073019.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         | 3.816       | 289           | 294         | 306          | rBV      | 94265          | 169876        | 9.38%           | 0.633%        |
| 2         | 5.440       | 567           | 570         | 598          | rBV      | 391365         | 781136        | 43.12%          | 2.909%        |
| 3         | 6.451       | 740           | 742         | 761          | rBV      | 541263         | 892824        | 49.28%          | 3.325%        |
| 4         | 6.581       | 761           | 764         | 772          | rVV      | 897579         | 926246        | 51.13%          | 3.450%        |
| 5         | 6.804       | 799           | 802         | 815          | rVB      | 598155         | 568313        | 31.37%          | 2.117%        |
| 6         | 6.957       | 825           | 828         | 841          | rBV      | 737072         | 719527        | 39.72%          | 2.680%        |
| 7         | 7.369       | 895           | 898         | 916          | rBV      | 401870         | 572423        | 31.60%          | 2.132%        |
| 8         | 8.081       | 1016          | 1019        | 1044         | rVB      | 725096         | 787559        | 43.47%          | 2.933%        |
| 9         | 9.151       | 1198          | 1201        | 1212         | rBV      | 1213852        | 1065906       | 58.84%          | 3.970%        |
| 10        | 9.551       | 1266          | 1269        | 1277         | rVB      | 190250         | 170154        | 9.39%           | 0.634%        |
| 11        | 9.833       | 1313          | 1317        | 1321         | rBV      | 1149207        | 972604        | 53.69%          | 3.623%        |
| 12        | 9.869       | 1321          | 1323        | 1333         | rVB      | 68735          | 69421         | 3.83%           | 0.259%        |
| 13        | 10.051      | 1349          | 1354        | 1357         | rBV2     | 28807          | 34741         | 1.92%           | 0.129%        |
| 14        | 10.251      | 1381          | 1388        | 1393         | rBV3     | 10429          | 20503         | 1.13%           | 0.076%        |
| 15        | 10.386      | 1405          | 1411        | 1417         | rBV2     | 53323          | 62108         | 3.43%           | 0.231%        |
| 16        | 10.451      | 1417          | 1422        | 1424         | rBV      | 12852          | 19296         | 1.07%           | 0.072%        |
| 17        | 10.545      | 1436          | 1438        | 1443         | rVB      | 29005          | 24963         | 1.38%           | 0.093%        |
| 18        | 10.627      | 1448          | 1452        | 1467         | rBV      | 721609         | 819849        | 45.25%          | 3.054%        |
| 19        | 10.933      | 1497          | 1504        | 1507         | rBV3     | 26218          | 39716         | 2.19%           | 0.148%        |
| 20        | 11.057      | 1520          | 1525        | 1527         | rBV2     | 23010          | 30229         | 1.67%           | 0.113%        |
| 21        | 11.145      | 1537          | 1540        | 1542         | rBV      | 38254          | 32842         | 1.81%           | 0.122%        |
| 22        | 11.175      | 1542          | 1545        | 1548         | rVV      | 49870          | 49952         | 2.76%           | 0.186%        |
| 23        | 11.222      | 1551          | 1553        | 1558         | rVB      | 54771          | 51046         | 2.82%           | 0.190%        |
| 24        | 11.322      | 1566          | 1570        | 1572         | rBV      | 1323378        | 1152538       | 63.62%          | 4.293%        |
| 25        | 11.345      | 1572          | 1574        | 1579         | rVV      | 1142267        | 958429        | 52.90%          | 3.570%        |
| 26        | 11.398      | 1579          | 1583        | 1590         | rVV      | 220436         | 260369        | 14.37%          | 0.970%        |
| 27        | 11.563      | 1606          | 1611        | 1616         | rBV2     | 123598         | 149847        | 8.27%           | 0.558%        |
| 28        | 11.610      | 1616          | 1619        | 1621         | rVB2     | 19997          | 22165         | 1.22%           | 0.083%        |
| 29        | 11.657      | 1621          | 1627        | 1628         | rBV3     | 17619          | 23223         | 1.28%           | 0.086%        |
| 30        | 11.733      | 1638          | 1640        | 1646         | rVB4     | 22183          | 24042         | 1.33%           | 0.090%        |
| 31        | 11.822      | 1652          | 1655        | 1658         | rBV      | 185007         | 170036        | 9.39%           | 0.633%        |
| 32        | 11.851      | 1658          | 1660        | 1666         | rVB      | 231810         | 237374        | 13.10%          | 0.884%        |
| 33        | 11.904      | 1666          | 1669        | 1671         | rBV      | 91288          | 76416         | 4.22%           | 0.285%        |
| 34        | 11.933      | 1671          | 1674        | 1677         | rVV      | 216391         | 252542        | 13.94%          | 0.941%        |

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 Misc :  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PX-03-081319

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-BF073019.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 35 | 11.957 | 1677 | 1678 | 1684 | rVB  | 118605  | 99669   | 5.50%  | 0.371% |
| 36 | 12.010 | 1684 | 1687 | 1691 | rBV3 | 17334   | 24129   | 1.33%  | 0.090% |
| 37 | 12.045 | 1691 | 1693 | 1697 | rBV4 | 20098   | 21730   | 1.20%  | 0.081% |
| 38 | 12.116 | 1702 | 1705 | 1710 | rVV  | 123600  | 118196  | 6.52%  | 0.440% |
| 39 | 12.169 | 1711 | 1714 | 1716 | rVV  | 63781   | 65023   | 3.59%  | 0.242% |
| 40 | 12.186 | 1716 | 1717 | 1720 | rVB  | 25461   | 20343   | 1.12%  | 0.076% |
| 41 | 12.269 | 1727 | 1731 | 1734 | rBV  | 49580   | 56145   | 3.10%  | 0.209% |
| 42 | 12.298 | 1734 | 1736 | 1739 | rVV  | 52054   | 45915   | 2.53%  | 0.171% |
| 43 | 12.327 | 1739 | 1741 | 1744 | rVB  | 41299   | 34421   | 1.90%  | 0.128% |
| 44 | 12.374 | 1745 | 1749 | 1751 | rBV  | 130888  | 126339  | 6.97%  | 0.471% |
| 45 | 12.416 | 1751 | 1756 | 1757 | rVV4 | 59962   | 96956   | 5.35%  | 0.361% |
| 46 | 12.433 | 1757 | 1759 | 1761 | rVV  | 46392   | 39669   | 2.19%  | 0.148% |
| 47 | 12.457 | 1761 | 1763 | 1764 | rVV  | 52259   | 44305   | 2.45%  | 0.165% |
| 48 | 12.474 | 1764 | 1766 | 1773 | rVB  | 79105   | 84057   | 4.64%  | 0.313% |
| 49 | 12.539 | 1773 | 1777 | 1781 | rBV  | 1448435 | 1434449 | 79.18% | 5.343% |
| 50 | 12.574 | 1781 | 1783 | 1785 | rVV  | 36120   | 30423   | 1.68%  | 0.113% |
| 51 | 12.598 | 1785 | 1787 | 1792 | rVB2 | 38039   | 42052   | 2.32%  | 0.157% |
| 52 | 12.692 | 1799 | 1803 | 1805 | rBV  | 92252   | 93563   | 5.16%  | 0.348% |
| 53 | 12.763 | 1809 | 1815 | 1821 | rVV2 | 1298426 | 1553605 | 85.76% | 5.787% |
| 54 | 12.816 | 1821 | 1824 | 1828 | rVB2 | 101700  | 113607  | 6.27%  | 0.423% |
| 55 | 12.898 | 1834 | 1838 | 1841 | rBV  | 1513799 | 1380213 | 76.19% | 5.141% |
| 56 | 12.939 | 1843 | 1845 | 1849 | rVB  | 71073   | 68362   | 3.77%  | 0.255% |
| 57 | 12.992 | 1849 | 1854 | 1858 | rBV4 | 106603  | 192932  | 10.65% | 0.719% |
| 58 | 13.027 | 1858 | 1860 | 1864 | rVB3 | 26070   | 27931   | 1.54%  | 0.104% |
| 59 | 13.074 | 1864 | 1868 | 1869 | rBV2 | 78211   | 99046   | 5.47%  | 0.369% |
| 60 | 13.098 | 1869 | 1872 | 1877 | rVB  | 177624  | 204979  | 11.31% | 0.763% |
| 61 | 13.163 | 1880 | 1883 | 1885 | rBV  | 88107   | 70384   | 3.89%  | 0.262% |
| 62 | 13.198 | 1885 | 1889 | 1896 | rVB3 | 149650  | 225492  | 12.45% | 0.840% |
| 63 | 13.257 | 1896 | 1899 | 1902 | rVB4 | 42572   | 42929   | 2.37%  | 0.160% |
| 64 | 13.292 | 1902 | 1905 | 1908 | rBV  | 101391  | 98609   | 5.44%  | 0.367% |
| 65 | 13.321 | 1908 | 1910 | 1914 | rBV2 | 89703   | 103126  | 5.69%  | 0.384% |
| 66 | 13.463 | 1931 | 1934 | 1937 | rBV4 | 35447   | 41490   | 2.29%  | 0.155% |
| 67 | 13.498 | 1937 | 1940 | 1941 | rVV2 | 26700   | 25412   | 1.40%  | 0.095% |
| 68 | 13.516 | 1941 | 1943 | 1950 | rVB2 | 47071   | 74130   | 4.09%  | 0.276% |
| 69 | 13.574 | 1951 | 1953 | 1956 | rBV3 | 19400   | 20434   | 1.13%  | 0.076% |
| 70 | 13.616 | 1956 | 1960 | 1966 | rVB  | 129890  | 153569  | 8.48%  | 0.572% |
| 71 | 13.733 | 1973 | 1980 | 1984 | rBV3 | 148597  | 293962  | 16.23% | 1.095% |

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Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF073019.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |         |        |
|----|--------|------|------|------|------|---------|---------|---------|--------|
| 72 | 13.768 | 1984 | 1986 | 1988 | rBV  | 87936   | 99508   | 5.49%   | 0.371% |
| 73 | 13.827 | 1992 | 1996 | 2001 | rVB2 | 166384  | 202174  | 11.16%  | 0.753% |
| 74 | 13.963 | 2012 | 2019 | 2022 | rBV2 | 1300668 | 1811630 | 100.00% | 6.748% |
| 75 | 13.992 | 2022 | 2024 | 2031 | rVB  | 683994  | 625456  | 34.52%  | 2.330% |
| 76 | 14.051 | 2031 | 2034 | 2035 | rBV3 | 25408   | 21063   | 1.16%   | 0.078% |
| 77 | 14.074 | 2035 | 2038 | 2041 | rVB  | 85117   | 73049   | 4.03%   | 0.272% |
| 78 | 14.104 | 2041 | 2043 | 2045 | rBV3 | 28192   | 22901   | 1.26%   | 0.085% |
| 79 | 14.133 | 2046 | 2048 | 2052 | rBV4 | 32668   | 38481   | 2.12%   | 0.143% |
| 80 | 14.168 | 2052 | 2054 | 2056 | rBV  | 32283   | 21818   | 1.20%   | 0.081% |
| 81 | 14.315 | 2077 | 2079 | 2081 | rBV2 | 38470   | 33806   | 1.87%   | 0.126% |
| 82 | 14.357 | 2081 | 2086 | 2089 | rVV  | 169683  | 218098  | 12.04%  | 0.812% |
| 83 | 14.386 | 2089 | 2091 | 2096 | rVV2 | 75877   | 123070  | 6.79%   | 0.458% |
| 84 | 14.457 | 2100 | 2103 | 2105 | rVV2 | 42357   | 45491   | 2.51%   | 0.169% |
| 85 | 14.480 | 2105 | 2107 | 2113 | rVB2 | 69941   | 118095  | 6.52%   | 0.440% |
| 86 | 14.704 | 2139 | 2145 | 2148 | rBV5 | 86096   | 143092  | 7.90%   | 0.533% |
| 87 | 14.957 | 2184 | 2188 | 2192 | rBV4 | 44491   | 76322   | 4.21%   | 0.284% |
| 88 | 15.004 | 2192 | 2196 | 2199 | rVV  | 540449  | 806308  | 44.51%  | 3.003% |
| 89 | 15.027 | 2199 | 2200 | 2206 | rVB2 | 327268  | 287461  | 15.87%  | 1.071% |
| 90 | 15.115 | 2211 | 2215 | 2221 | rBV  | 101162  | 148048  | 8.17%   | 0.551% |
| 91 | 15.298 | 2243 | 2246 | 2251 | rBV  | 293075  | 326536  | 18.02%  | 1.216% |
| 92 | 15.362 | 2254 | 2257 | 2264 | rBV  | 446117  | 600653  | 33.16%  | 2.237% |
| 93 | 15.421 | 2264 | 2267 | 2271 | rBV  | 693556  | 785275  | 43.35%  | 2.925% |
| 94 | 16.886 | 2512 | 2516 | 2526 | rVB2 | 178457  | 380073  | 20.98%  | 1.416% |
| 95 | 17.056 | 2541 | 2545 | 2550 | rBV  | 42912   | 77290   | 4.27%   | 0.288% |
| 96 | 17.333 | 2587 | 2592 | 2602 | rVB  | 129436  | 286811  | 15.83%  | 1.068% |

Sum of corrected areas: 26848320



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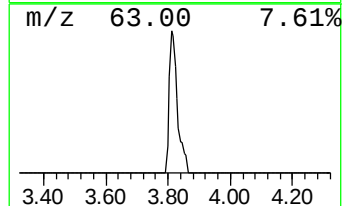
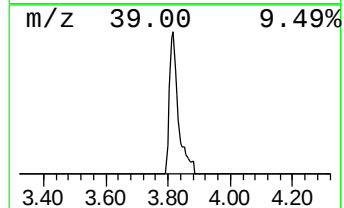
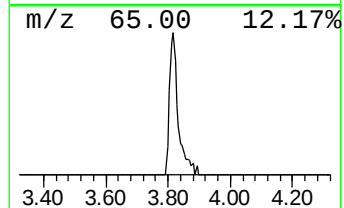
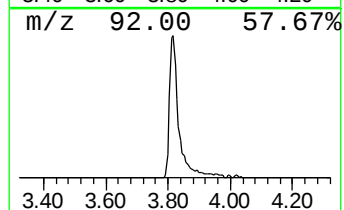
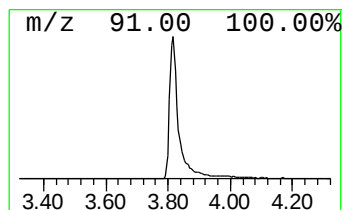
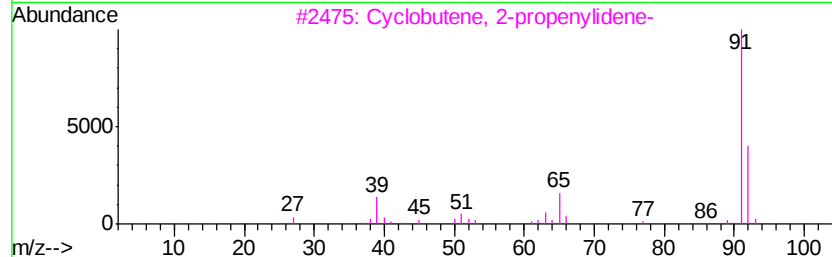
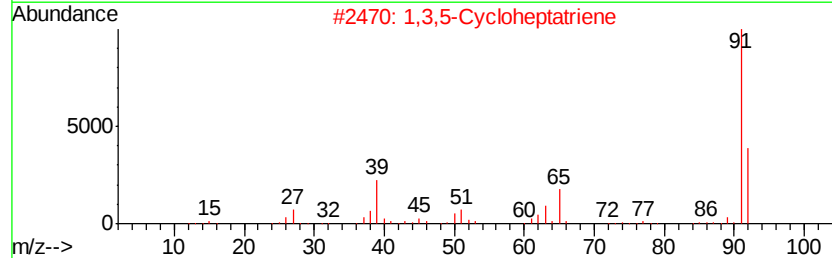
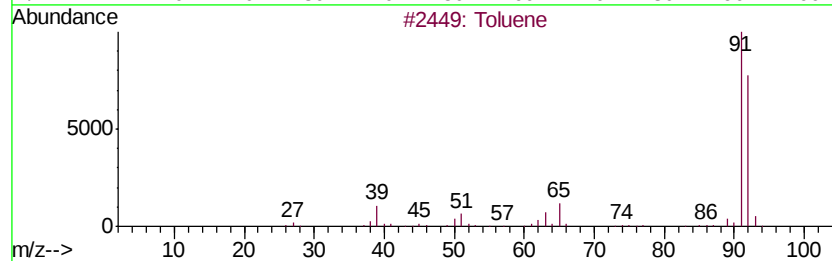
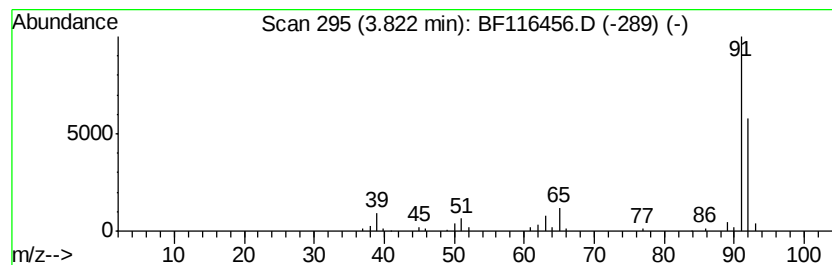
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073019.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 1 1,3,5-Cycloheptatriene Concentration Rank 4

| R.T. | EstConc | Area   | Relative to ISTD       | R.T. |
|------|---------|--------|------------------------|------|
| 3.82 | 5.98 ng | 169876 | 1,4-Dichlorobenzene-d4 | 6.80 |

| Hit# | of | 5 | Tentative ID                  | MW | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------|----|---------|-------------|------|
| 1    |    |   | Toluene                       | 92 | C7H8    | 000108-88-3 | 94   |
| 2    |    |   | 1,3,5-Cycloheptatriene        | 92 | C7H8    | 000544-25-2 | 87   |
| 3    |    |   | Cyclobutene, 2-propenylidene- | 92 | C7H8    | 052097-85-5 | 72   |
| 4    |    |   | Spiro[2.4]hepta-4,6-diene     | 92 | C7H8    | 000765-46-8 | 68   |
| 5    |    |   | 2,5-Norbornadiene             | 92 | C7H8    | 000121-46-0 | 64   |



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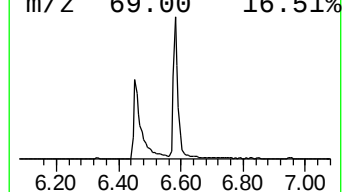
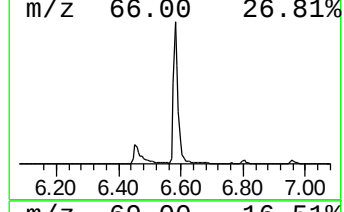
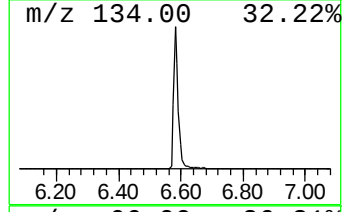
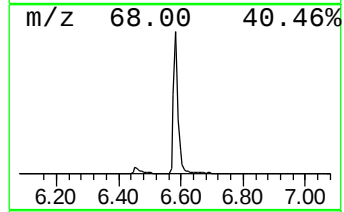
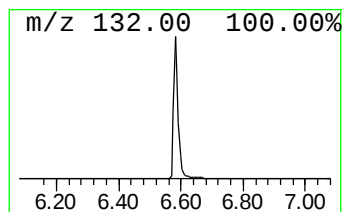
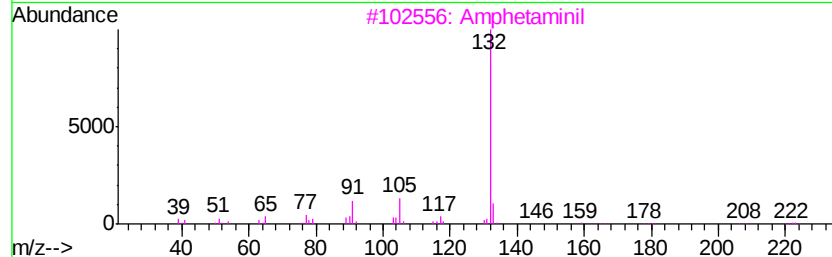
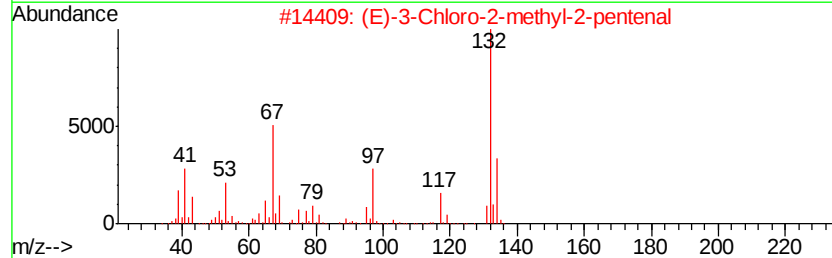
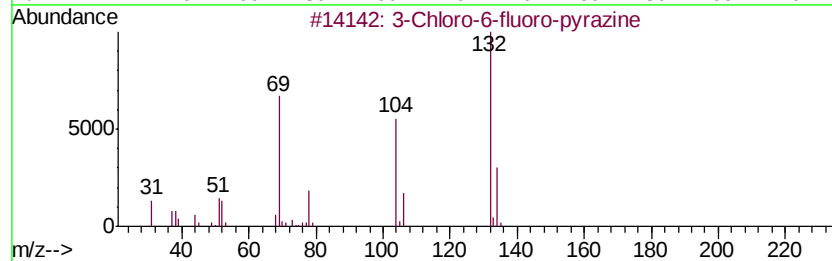
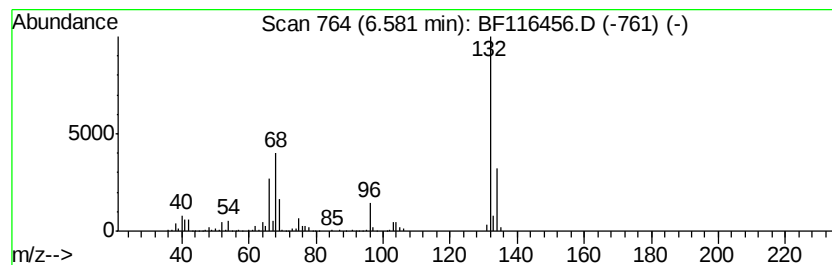
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073019.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 2 unknown6.58 Concentration Rank 1

| R.T. | EstConc  | Area   | Relative to ISTD       | R.T. |
|------|----------|--------|------------------------|------|
| 6.58 | 32.60 ng | 926246 | 1,4-Dichlorobenzene-d4 | 6.80 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 3-Chloro-6-fluoro-pyrazine          | 132 | C4H2ClFN2 | 1000146-10-7 | 27   |
| 2    |    | (E)-3-Chloro-2-methyl-2-pentenal    | 132 | C6H9ClO   | 031357-76-3  | 17   |
| 3    |    | Amphetaminil                        | 250 | C17H18N2  | 017590-01-1  | 10   |
| 4    |    | Tranylcypromine-propionyl           | 189 | C12H15NO  | 1000123-86-3 | 10   |
| 5    |    | 1,3,4-Thiadiazole-2(3H)-thione, ... | 132 | C3H4N2S2  | 029490-19-5  | 9    |



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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

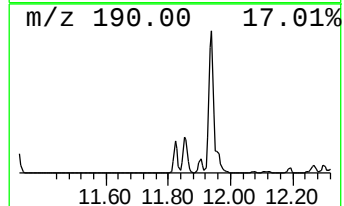
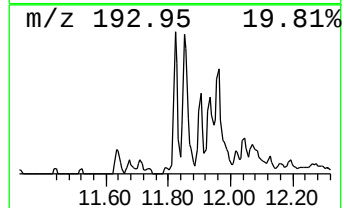
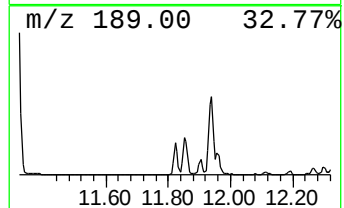
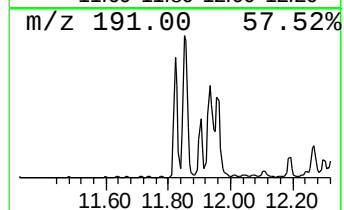
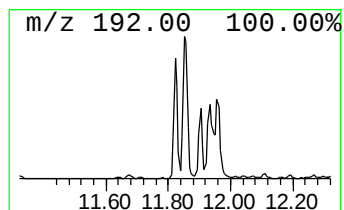
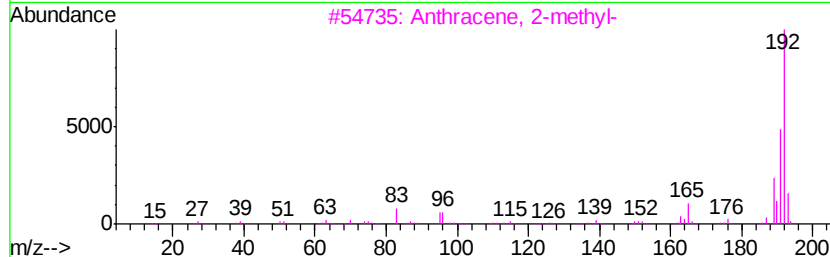
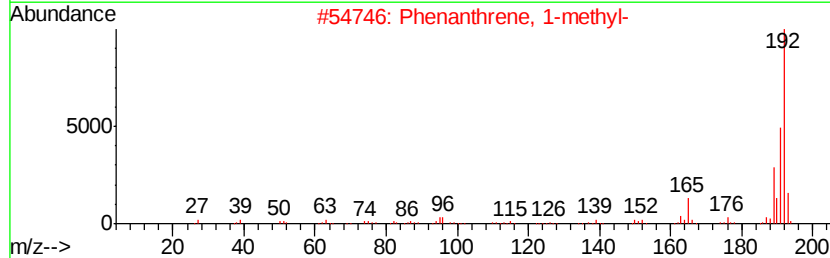
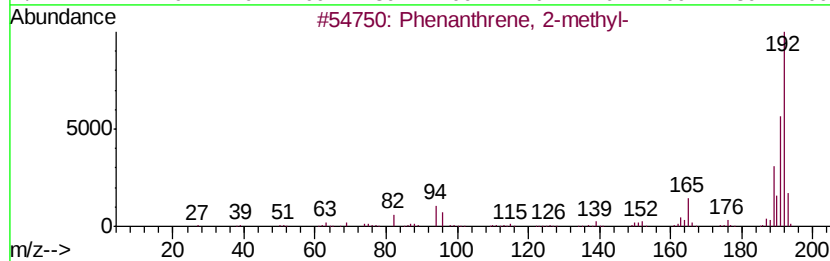
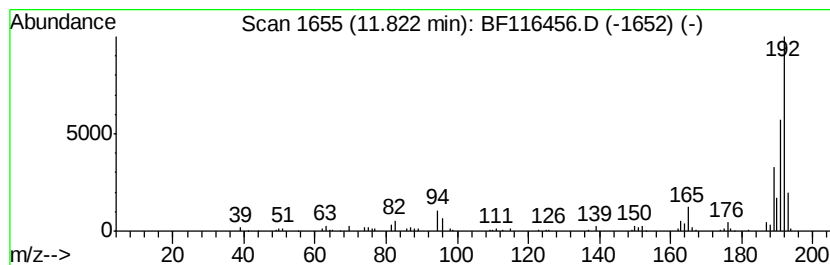
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TIC Integration Parameters: LSCINT.P

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Peak Number 4 Phenanthrene, 2-methyl- Concentration Rank 10

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 11.82 | 2.95 ng | 170036 | Phenanthrene-d10 | 11.32 |

| 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 | 96   |
| 4         | Anthracene, 1-methyl-       | 192 | C15H12  | 000610-48-0 | 93   |
| 5         | Naphtho[2,3-b]norbornadiene | 192 | C15H12  | 107426-38-0 | 87   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082019\  
Data File : BF116456.D  
Acq On : 21 Aug 2019 3:08  
Operator : HP/JU  
Sample : K4354-03 2X  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

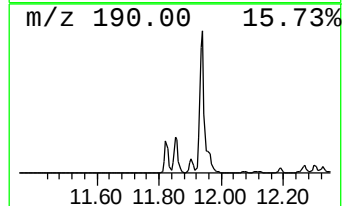
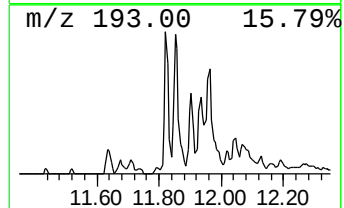
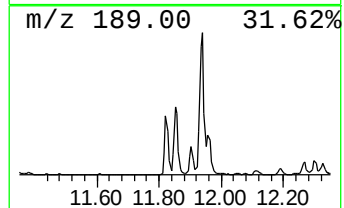
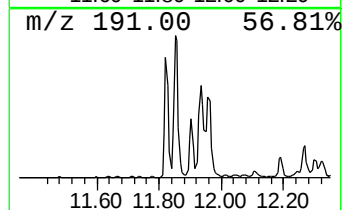
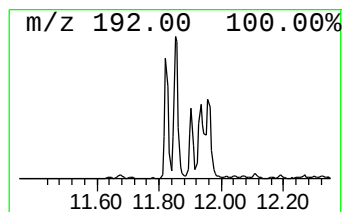
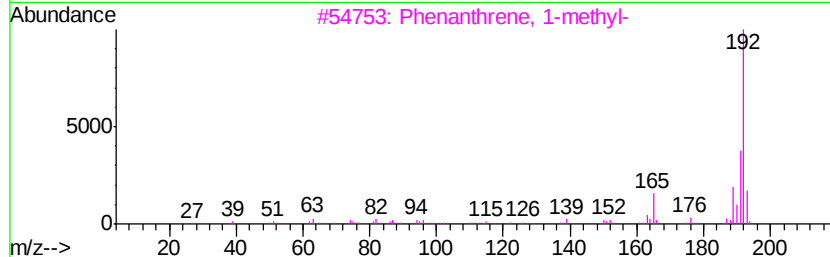
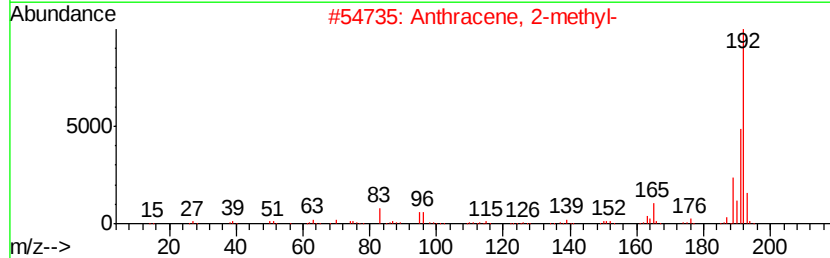
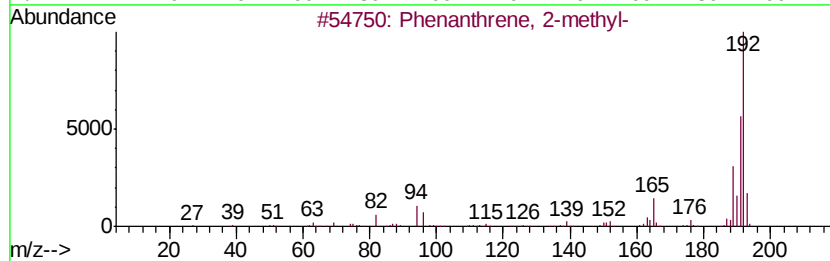
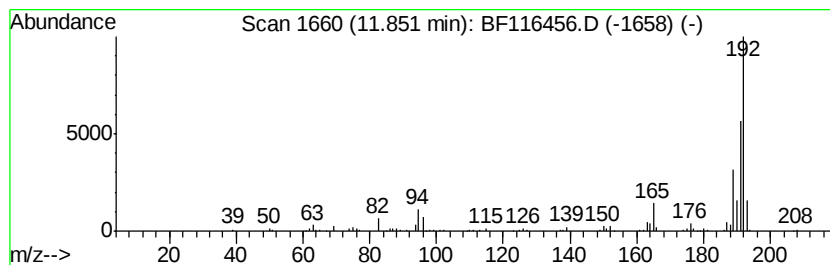
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ClientSampleId :  
PX-03-081319

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 5 Phenanthrene, 1-methyl- Concentration Rank 6

| R.T.      | EstConc                 | Area   | Relative to ISTD | R.T.        |      |
|-----------|-------------------------|--------|------------------|-------------|------|
| 11.85     | 4.12 ng                 | 237374 | Phenanthrene-d10 | 11.32       |      |
| Hit# of 5 | Tentative ID            | MW     | MolForm          | CAS#        | Qual |
| 1         | Phenanthrene, 2-methyl- | 192    | C15H12           | 002531-84-2 | 98   |
| 2         | Anthracene, 2-methyl-   | 192    | C15H12           | 000613-12-7 | 95   |
| 3         | Phenanthrene, 1-methyl- | 192    | C15H12           | 000832-69-9 | 93   |
| 4         | Anthracene, 1-methyl-   | 192    | C15H12           | 000610-48-0 | 93   |
| 5         | Anthracene, 9-methyl-   | 192    | C15H12           | 000779-02-2 | 91   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082019\  
Data File : BF116456.D  
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Operator : HP/JU  
Sample : K4354-03 2X  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

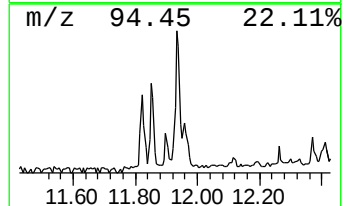
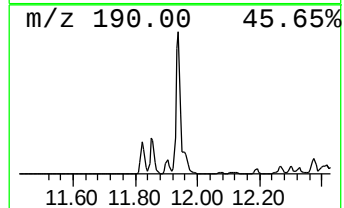
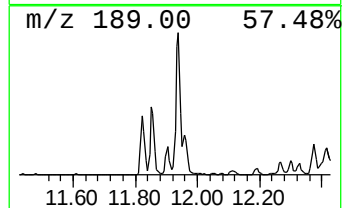
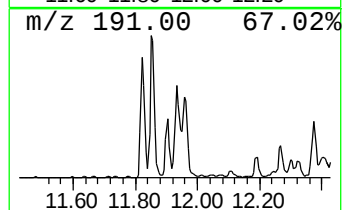
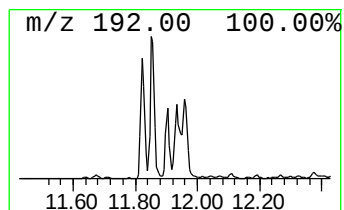
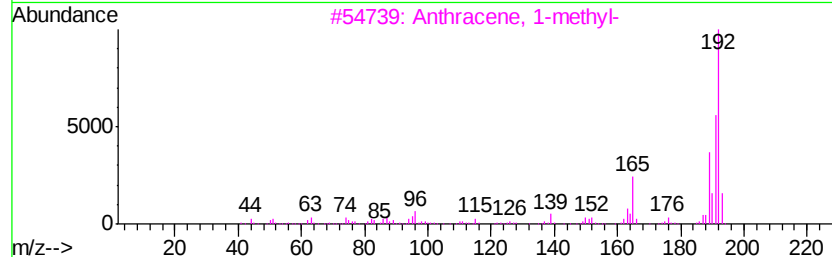
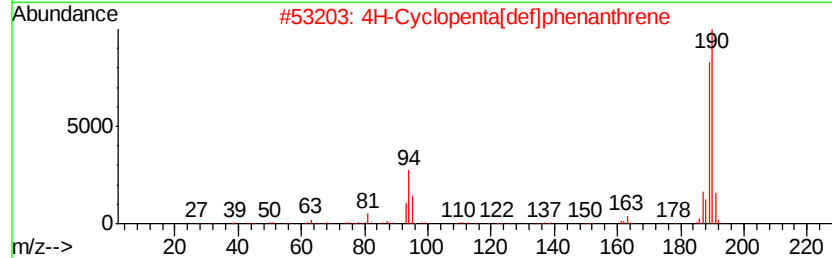
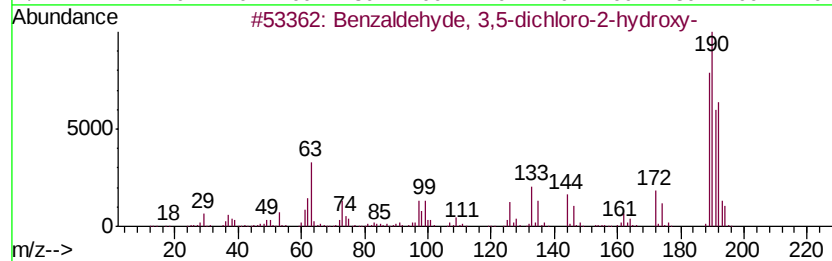
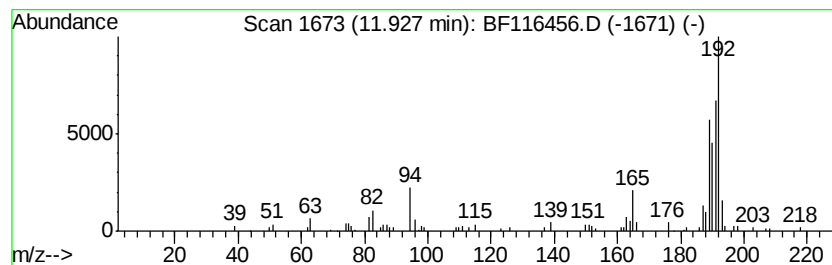
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ClientSampleId :  
PX-03-081319

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073019.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 Benzaldehyde, 3,5-dichloro-... Concentration Rank 5

| R.T.      | EstConc                             | Area   | Relative to ISTD |             | R.T.  |
|-----------|-------------------------------------|--------|------------------|-------------|-------|
| 11.93     | 4.38 ng                             | 252542 | Phenanthrene-d10 |             | 11.32 |
| Hit# of 5 | Tentative ID                        | MW     | MolForm          | CAS#        | Qual  |
| 1         | Benzaldehyde, 3,5-dichloro-2-hyd... | 190    | C7H4Cl2O2        | 000090-60-8 | 64    |
| 2         | 4H-Cyclopenta[def]phenanthrene      | 190    | C15H10           | 000203-64-5 | 64    |
| 3         | Anthracene, 1-methyl-               | 192    | C15H12           | 000610-48-0 | 60    |
| 4         | 1H-Indene, 2-phenyl-                | 192    | C15H12           | 004505-48-0 | 42    |
| 5         | Phenanthrene, 1-methyl-             | 192    | C15H12           | 000832-69-9 | 42    |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082019\  
Data File : BF116456.D  
Acq On : 21 Aug 2019 3:08  
Operator : HP/JU  
Sample : K4354-03 2X  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
PX-03-081319

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073019.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

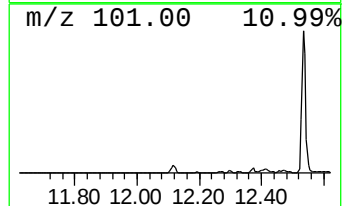
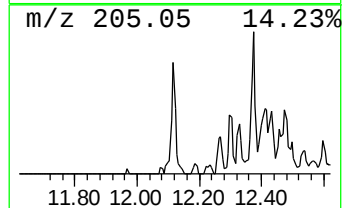
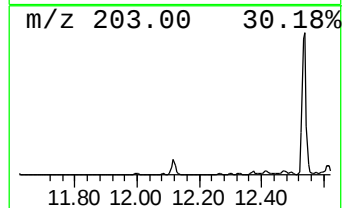
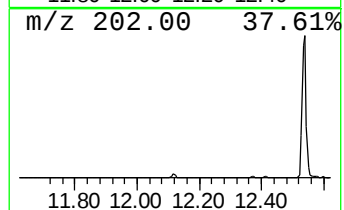
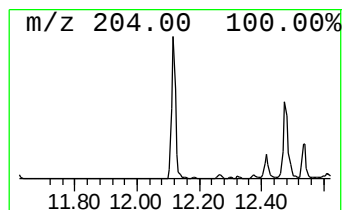
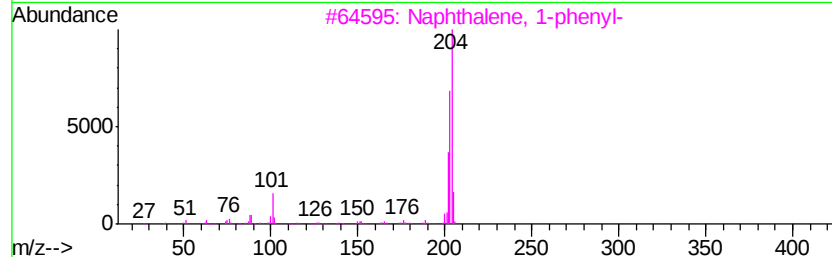
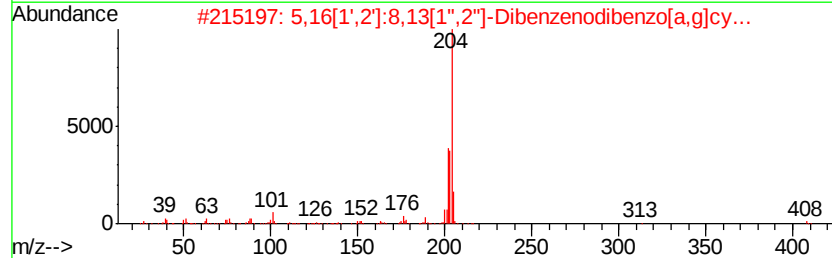
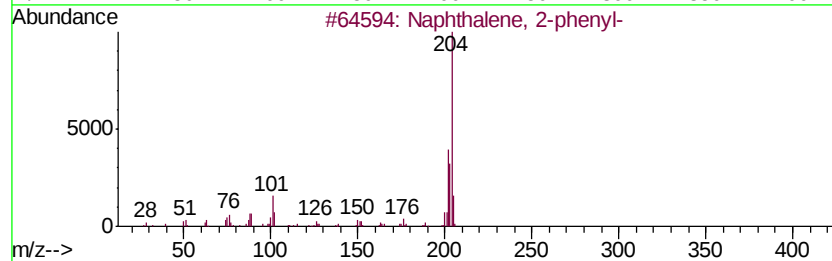
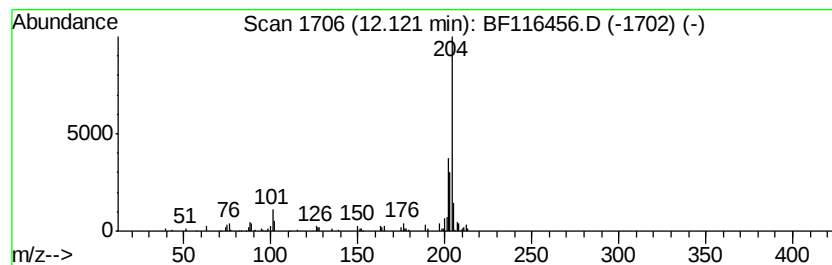
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 Naphthalene, 2-phenyl- Concentration Rank 17

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 12.12 | 2.05 ng | 118196 | Phenanthrene-d10 | 11.32 |

| Hit# | of | Tentative ID                         | MW  | MolForm   | CAS#        | Qual |
|------|----|--------------------------------------|-----|-----------|-------------|------|
| 1    | 5  | Naphthalene, 2-phenyl-               | 204 | C16H12    | 000612-94-2 | 93   |
| 2    |    | 5,16[1',2'] :8,13[1'',2'']-Dibenz... | 408 | C32H24    | 005672-97-9 | 90   |
| 3    |    | Naphthalene, 1-phenyl-               | 204 | C16H12    | 000605-02-7 | 83   |
| 4    |    | 9,10-Bis(bromomethyl)anthracene      | 362 | C16H12Br2 | 034373-96-1 | 70   |
| 5    |    | Benzene, 1,1'-(1-buten-3-yne-1,4...  | 204 | C16H12    | 013141-45-2 | 60   |



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Data File : BF116456.D  
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Operator : HP/JU  
Sample : K4354-03 2X  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

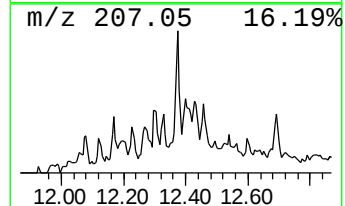
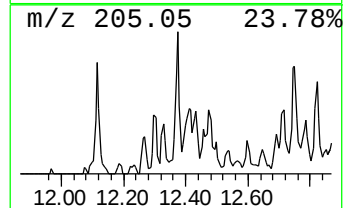
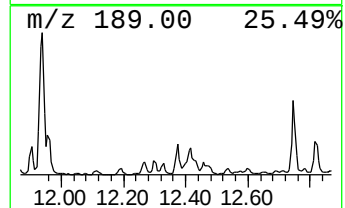
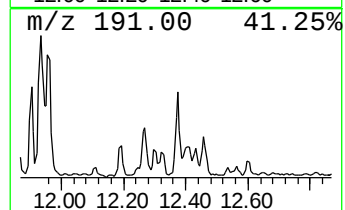
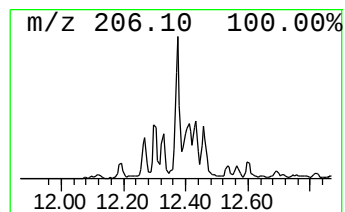
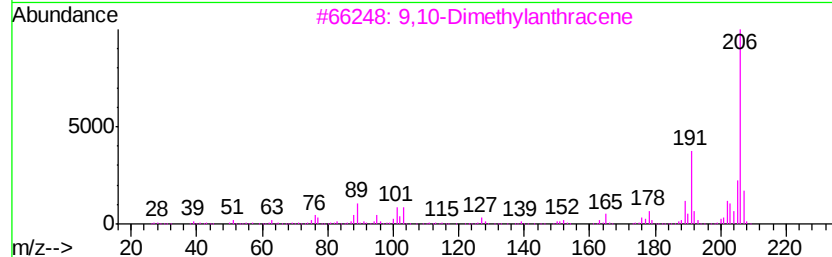
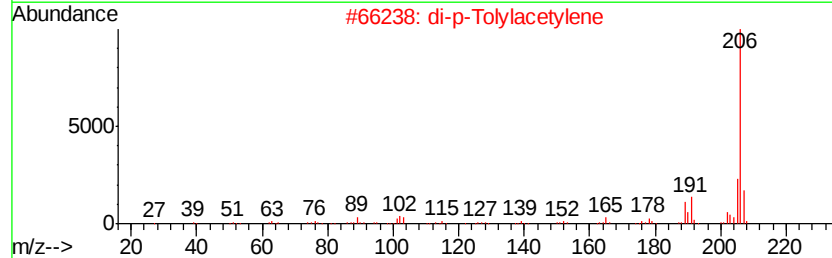
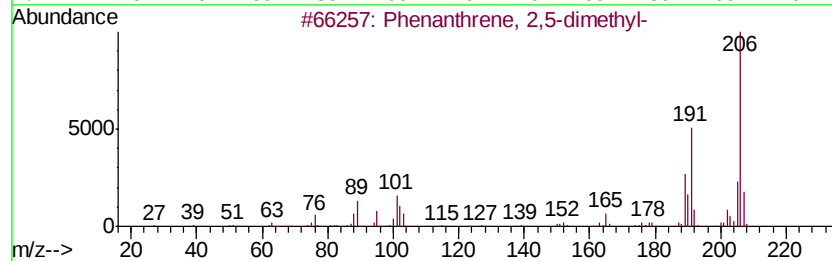
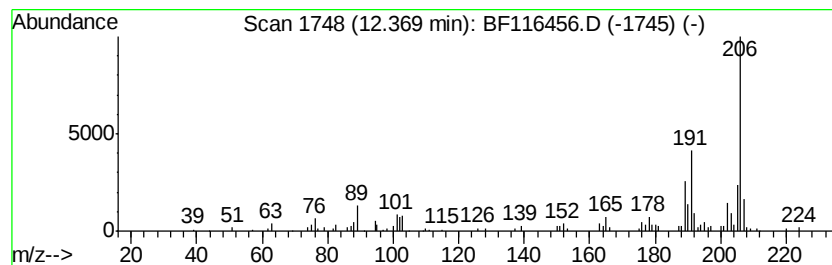
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ClientSampleId :  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073019.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 8 Phenanthrene, 2,5-dimethyl- Concentration Rank 15

| R.T.      | EstConc                     | Area   | Relative to ISTD |             | R.T.  |
|-----------|-----------------------------|--------|------------------|-------------|-------|
| 12.37     | 2.19 ng                     | 126339 | Phenanthrene-d10 |             | 11.32 |
| Hit# of 5 | Tentative ID                | MW     | MolForm          | CAS#        | Qual  |
| 1         | Phenanthrene, 2,5-dimethyl- | 206    | C16H14           | 003674-66-6 | 95    |
| 2         | di-p-Tolylacetylvene        | 206    | C16H14           | 002789-88-0 | 94    |
| 3         | 9,10-Dimethylanthracene     | 206    | C16H14           | 000781-43-1 | 93    |
| 4         | Anthracene, 1,4-dimethyl-   | 206    | C16H14           | 000781-92-0 | 93    |
| 5         | Phenanthrene, 2,3-dimethyl- | 206    | C16H14           | 003674-65-5 | 91    |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082019\  
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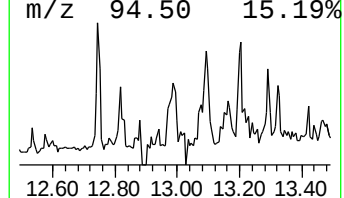
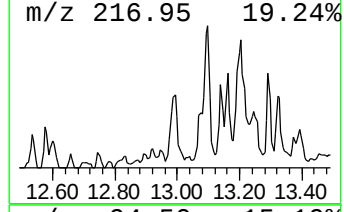
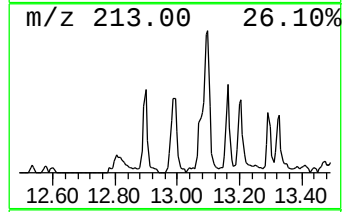
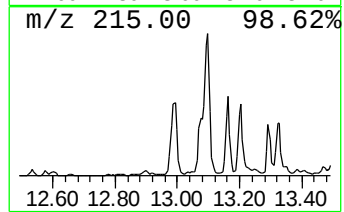
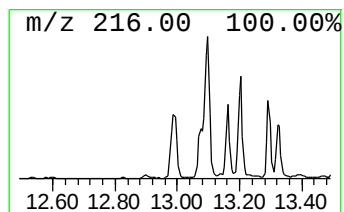
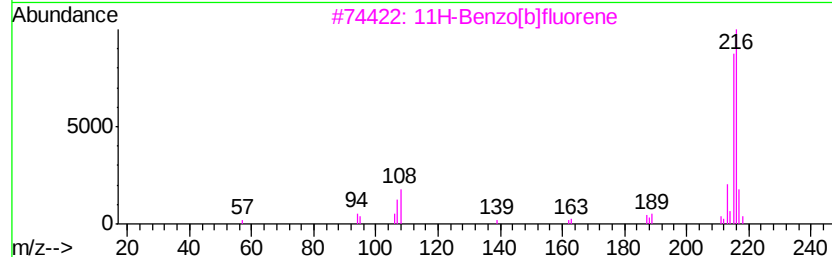
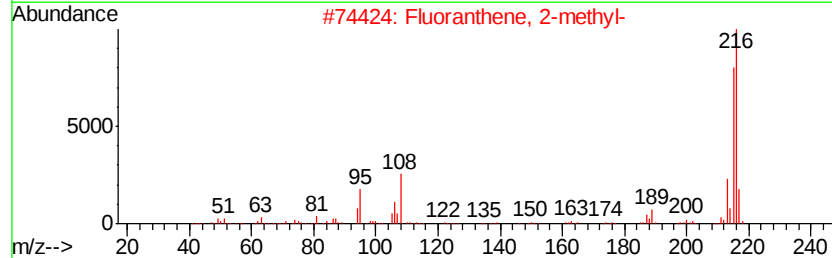
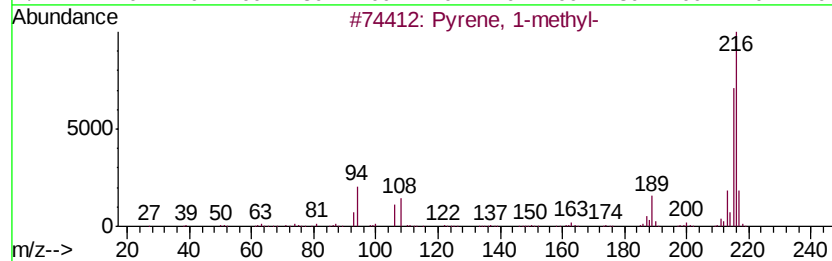
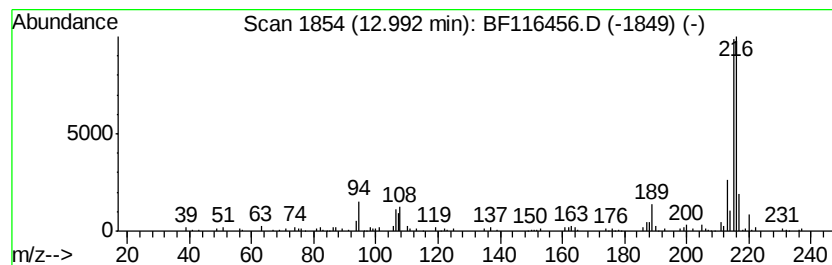
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 9 Pyrene, 1-methyl- Concentration Rank 16

| R.T.    | EstConc | Area                    | Relative to ISTD | R.T.           |
|---------|---------|-------------------------|------------------|----------------|
| 12.99   | 2.13 ng | 192932                  | Chrysene-d12     | 13.96          |
| Hit# of | 5       | Tentative ID            | MW MolForm       | CAS# Qual      |
| 1       |         | Pyrene, 1-methyl-       | 216 C17H12       | 002381-21-7 98 |
| 2       |         | Fluoranthene, 2-methyl- | 216 C17H12       | 033543-31-6 91 |
| 3       |         | 11H-Benzo[b]fluorene    | 216 C17H12       | 000243-17-4 87 |
| 4       |         | 11H-Benzo[a]fluorene    | 216 C17H12       | 000238-84-6 81 |
| 5       |         | 7H-Benzo[c]fluorene     | 216 C17H12       | 000205-12-9 72 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082019\  
Data File : BF116456.D  
Acq On : 21 Aug 2019 3:08  
Operator : HP/JU  
Sample : K4354-03 2X  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
PX-03-081319

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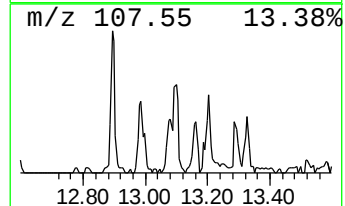
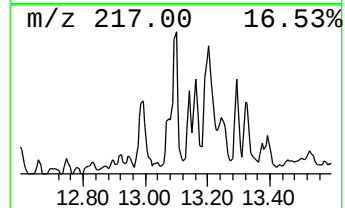
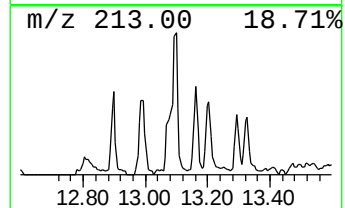
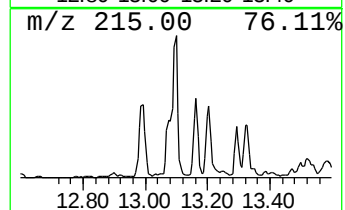
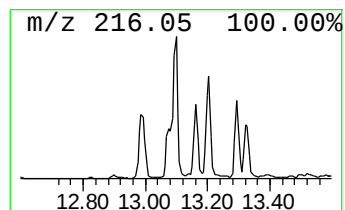
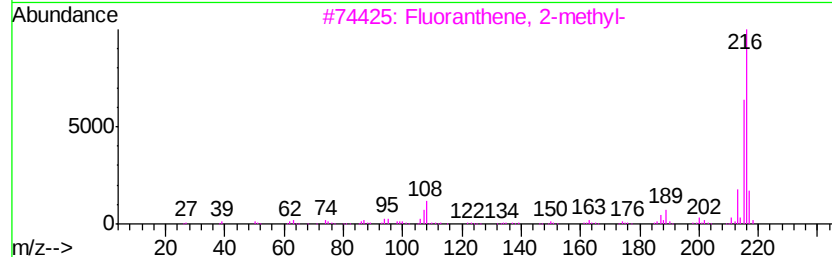
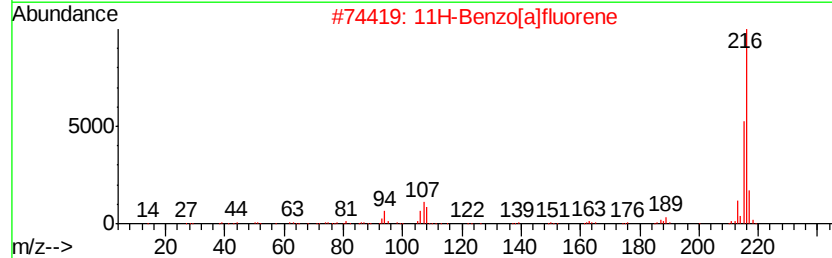
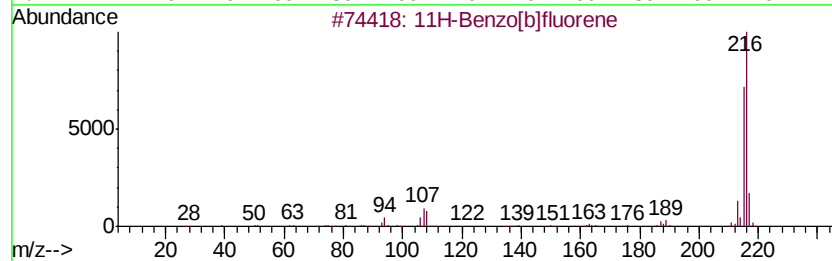
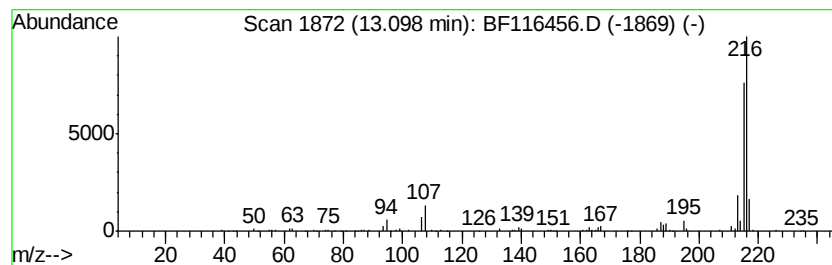
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TIC Integration Parameters: LSCINT.P

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Peak Number 10 11H-Benzo[b]fluorene Concentration Rank 13

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 13.10 | 2.26 ng | 204979 | Chrysene-d12     | 13.96 |

| Hit# of | 5 | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|---------|---|-------------------------|-----|---------|-------------|------|
| 1       |   | 11H-Benzo[b]fluorene    | 216 | C17H12  | 000243-17-4 | 97   |
| 2       |   | 11H-Benzo[a]fluorene    | 216 | C17H12  | 000238-84-6 | 94   |
| 3       |   | Fluoranthene, 2-methyl- | 216 | C17H12  | 033543-31-6 | 90   |
| 4       |   | Pvrene, 1-methyl-       | 216 | C17H12  | 002381-21-7 | 80   |
| 5       |   | 7H-Benzo[c]fluorene     | 216 | C17H12  | 000205-12-9 | 72   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082019\  
Data File : BF116456.D  
Acq On : 21 Aug 2019 3:08  
Operator : HP/JU  
Sample : K4354-03 2X  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
PX-03-081319

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073019.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

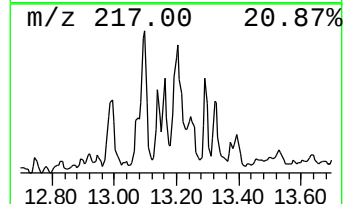
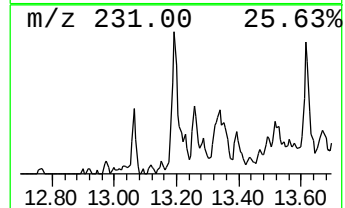
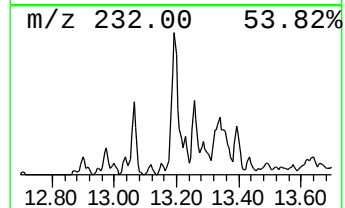
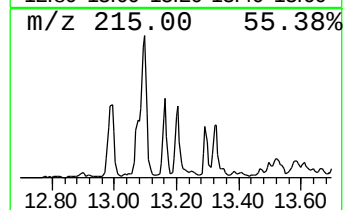
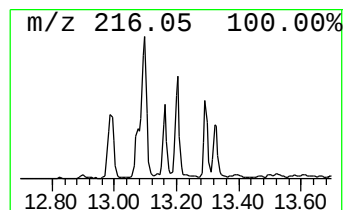
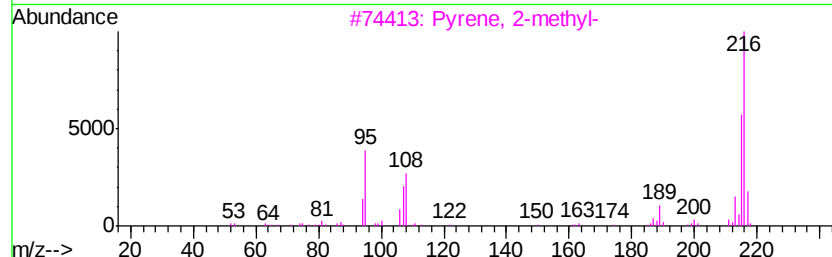
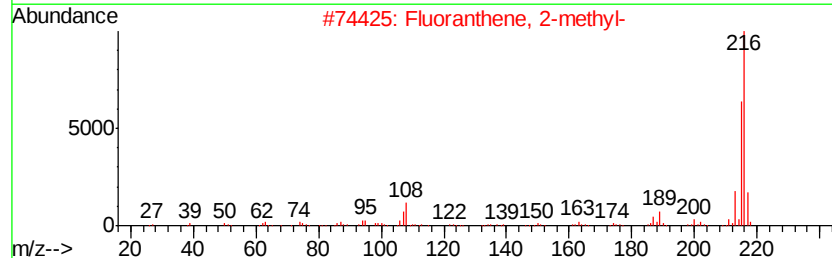
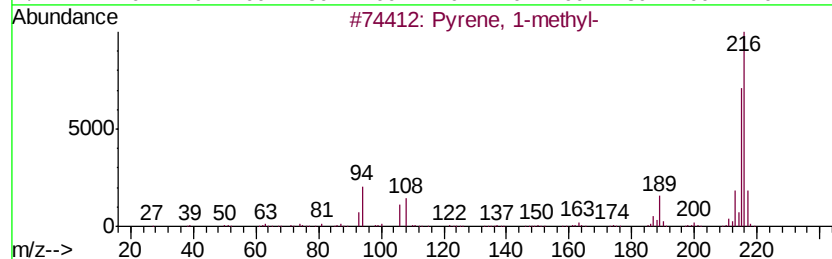
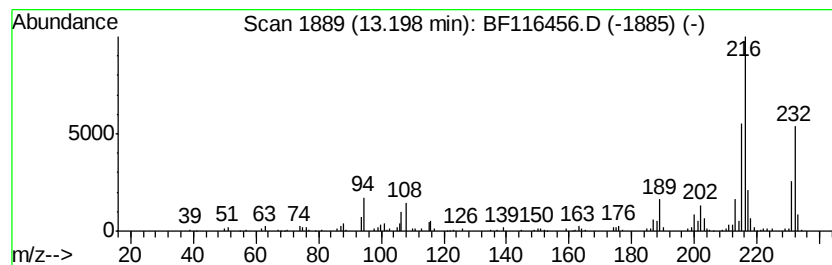
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TIC Integration Parameters: LSCINT.P

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Peak Number 11 Fluoranthene, 2-methyl- Concentration Rank 11

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 13.20 | 2.49 ng | 225492 | Chrysene-d12     | 13.96 |

| Hit# | of | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------|-----|---------|-------------|------|
| 1    | 5  | Pyrene, 1-methyl-       | 216 | C17H12  | 002381-21-7 | 98   |
| 2    |    | Fluoranthene, 2-methyl- | 216 | C17H12  | 033543-31-6 | 90   |
| 3    |    | Pyrene, 2-methyl-       | 216 | C17H12  | 003442-78-2 | 83   |
| 4    |    | 11H-Benzo[alfluorene    | 216 | C17H12  | 000238-84-6 | 64   |
| 5    |    | Pyrene, 4-methyl-       | 216 | C17H12  | 003353-12-6 | 53   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082019\  
Data File : BF116456.D  
Acq On : 21 Aug 2019 3:08  
Operator : HP/JU  
Sample : K4354-03 2X  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
PX-03-081319

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073019.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

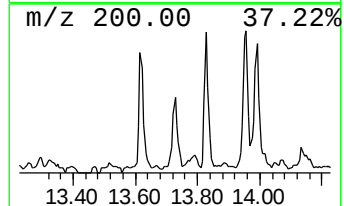
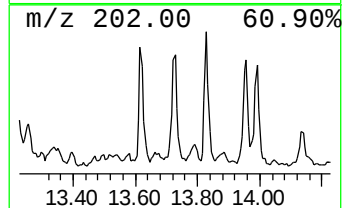
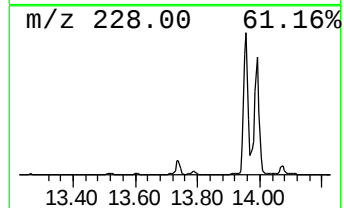
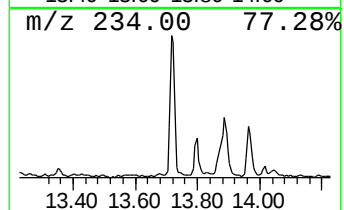
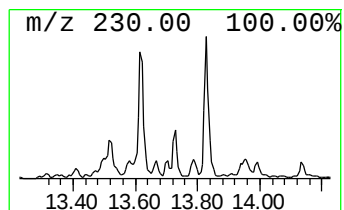
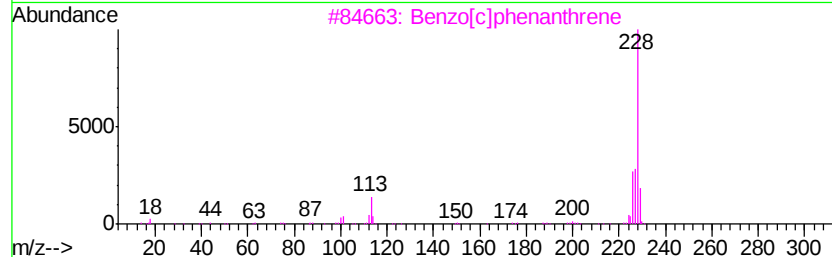
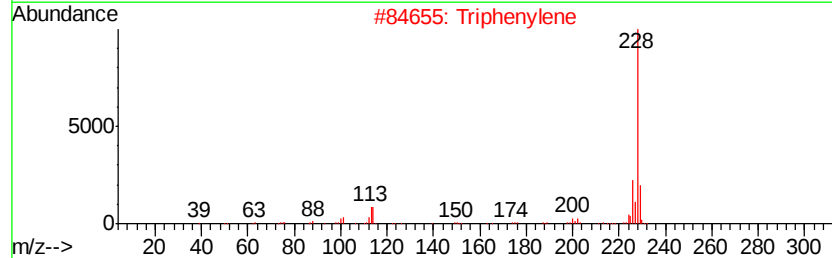
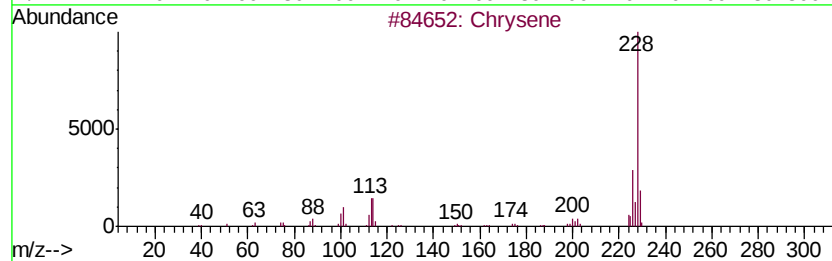
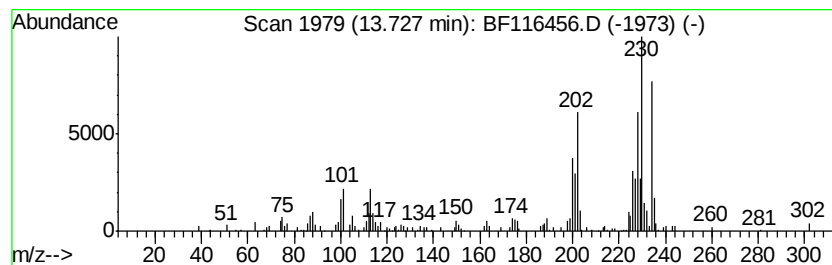
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 12 Benzo[c]phenanthrene Concentration Rank 9

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 13.73 | 3.25 ng | 293962 | Chrysene-d12     | 13.96 |

| Hit# | of | Tentative ID                        | MW  | MolForm     | CAS#         | Qual |
|------|----|-------------------------------------|-----|-------------|--------------|------|
| 1    | 5  | Chrysene                            | 228 | C18H12      | 000218-01-9  | 78   |
| 2    |    | Triphenylene                        | 228 | C18H12      | 000217-59-4  | 78   |
| 3    |    | Benzo[c]phenanthrene                | 228 | C18H12      | 000195-19-7  | 64   |
| 4    |    | Isothiazol-5-amine, 4-bromo-3-ch... | 226 | C4H4BrClN2S | 1000272-59-9 | 52   |
| 5    |    | Diphenylvinylphosphine oxide        | 228 | C14H13OP    | 002096-78-8  | 46   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082019\  
Data File : BF116456.D  
Acq On : 21 Aug 2019 3:08  
Operator : HP/JU  
Sample : K4354-03 2X  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

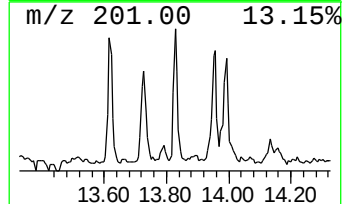
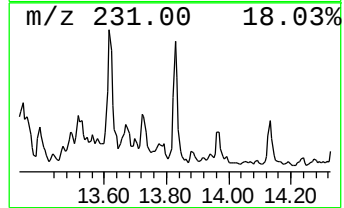
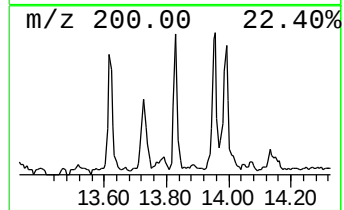
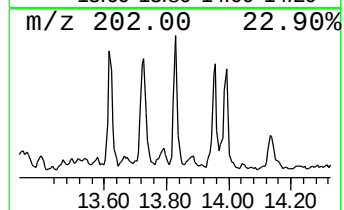
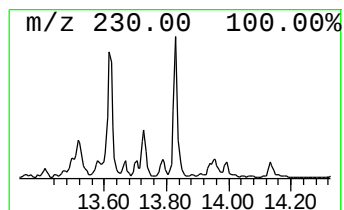
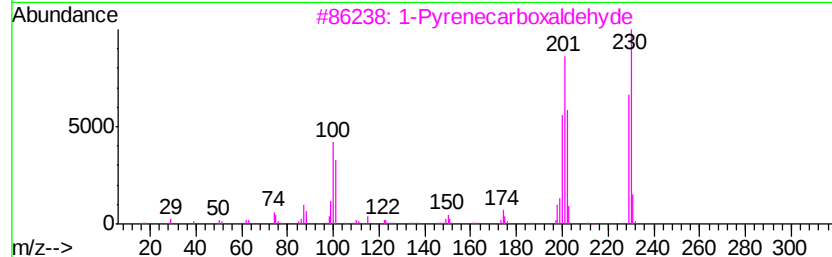
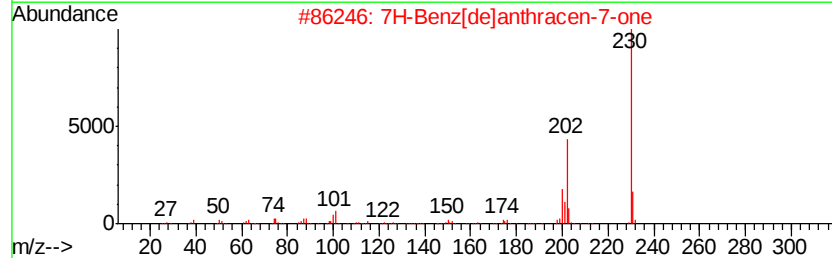
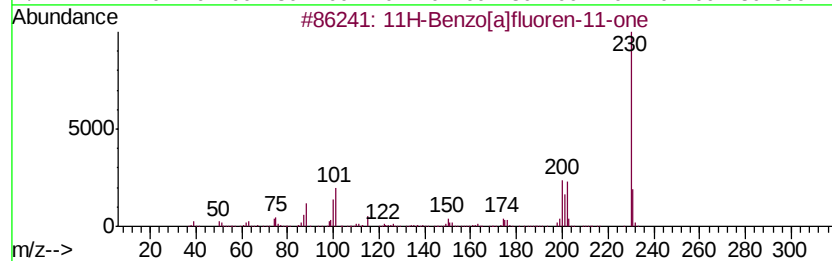
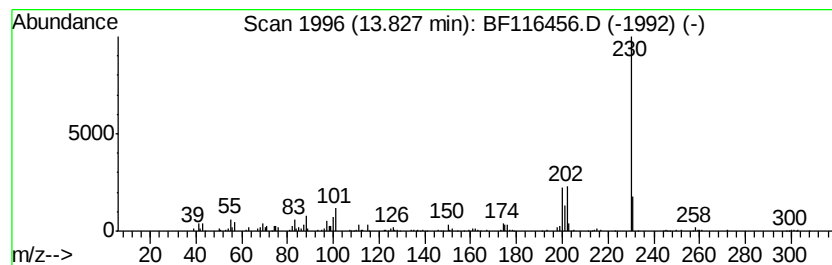
Instrument :  
BNA\_F  
ClientSampleId :  
PX-03-081319

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073019.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 13 11H-Benzo[a]fluoren-11-one Concentration Rank 14

| R.T.  | EstConc | Area   | Relative to ISTD           |     | R.T.    |             |      |
|-------|---------|--------|----------------------------|-----|---------|-------------|------|
| 13.83 | 2.23 ng | 202174 | Chrysene-d12               |     | 13.96   |             |      |
| Hit#  | of      | 5      | Tentative ID               | MW  | MolForm | CAS#        | Qual |
| 1     |         |        | 11H-Benzo[a]fluoren-11-one | 230 | C17H10O | 000479-79-8 | 95   |
| 2     |         |        | 7H-Benz[de]anthracen-7-one | 230 | C17H10O | 000082-05-3 | 90   |
| 3     |         |        | 1-Pyrenecarboxaldehyde     | 230 | C17H10O | 003029-19-4 | 72   |
| 4     |         |        | 6H-Benz[de]anthracen-6-one | 230 | C17H10O | 080252-14-8 | 64   |
| 5     |         |        | o-Terphenyl                | 230 | C18H14  | 000084-15-1 | 58   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082019\  
Data File : BF116456.D  
Acq On : 21 Aug 2019 3:08  
Operator : HP/JU  
Sample : K4354-03 2X  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
PX-03-081319

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073019.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

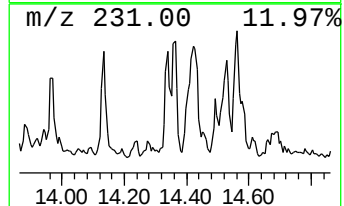
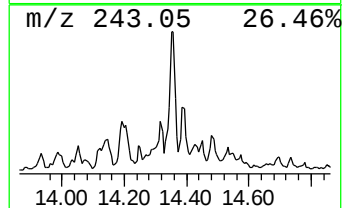
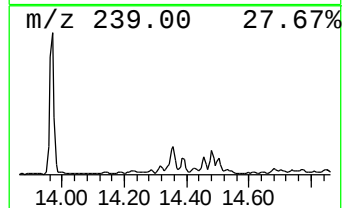
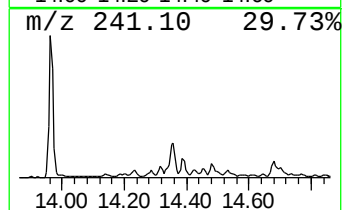
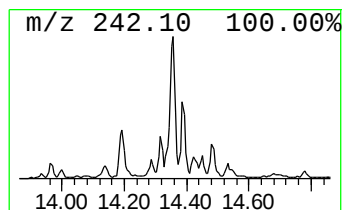
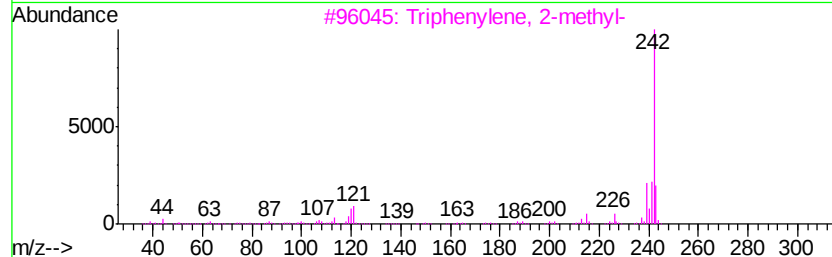
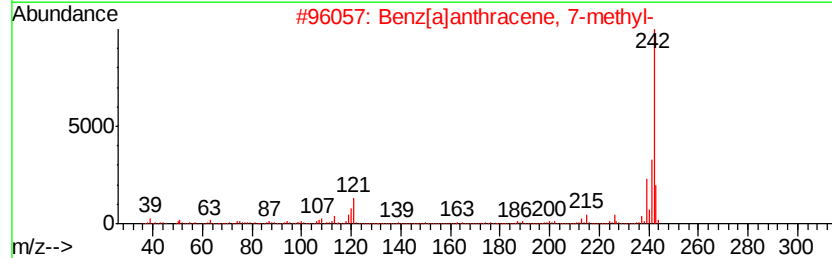
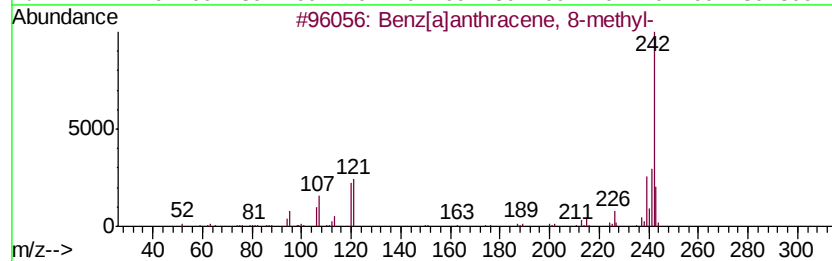
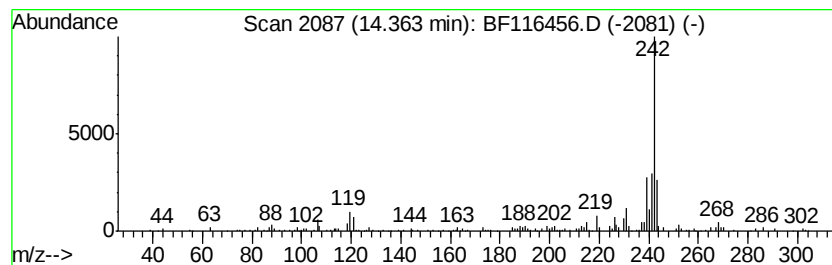
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 14 Benz[a]anthracene, 8-methyl- Concentration Rank 12

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 14.36 | 2.41 ng | 218098 | Chrysene-d12     | 13.96 |

| Hit# | of | Tentative ID                 | MW  | MolForm | CAS#        | Qual |
|------|----|------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benz[a]anthracene, 8-methyl- | 242 | C19H14  | 002381-31-9 | 95   |
| 2    |    | Benz[a]anthracene, 7-methyl- | 242 | C19H14  | 002541-69-7 | 95   |
| 3    |    | Triphenylene, 2-methyl-      | 242 | C19H14  | 001705-84-6 | 95   |
| 4    |    | Benz[a]anthracene, 1-methyl- | 242 | C19H14  | 002498-77-3 | 94   |
| 5    |    | 2-Methylchrysene             | 242 | C19H14  | 003351-32-4 | 93   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082019\  
Data File : BF116456.D  
Acq On : 21 Aug 2019 3:08  
Operator : HP/JU  
Sample : K4354-03 2X  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

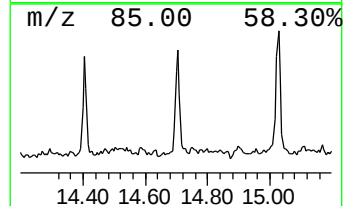
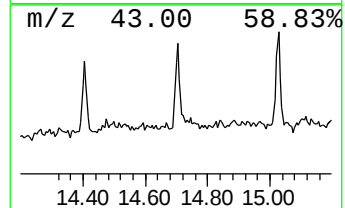
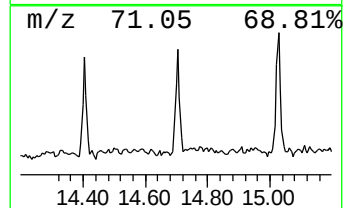
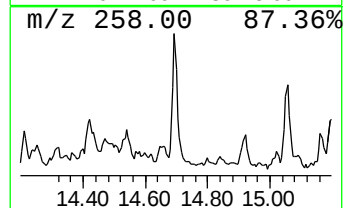
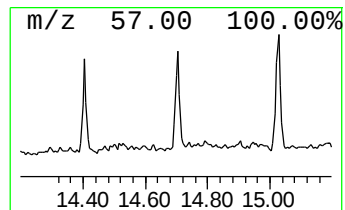
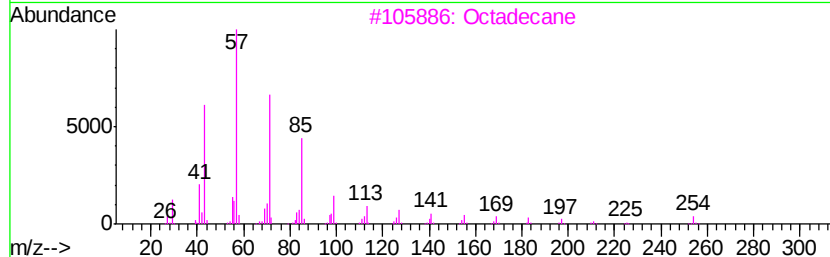
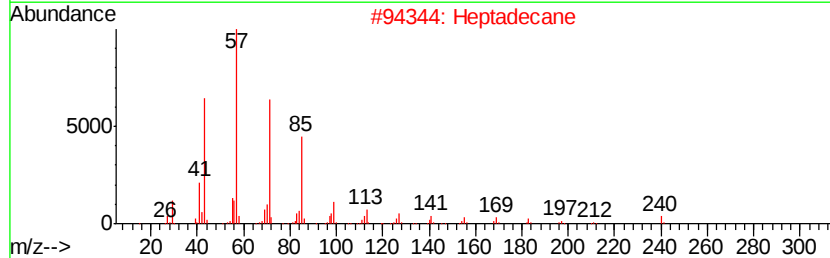
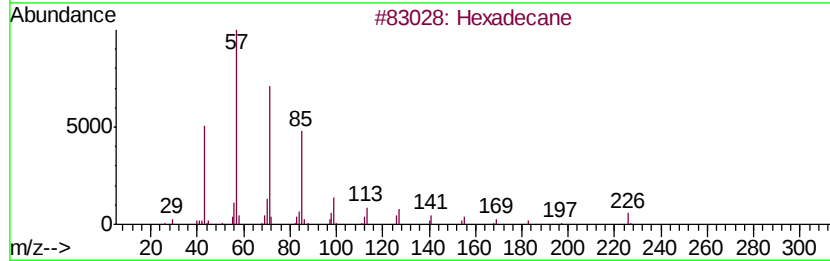
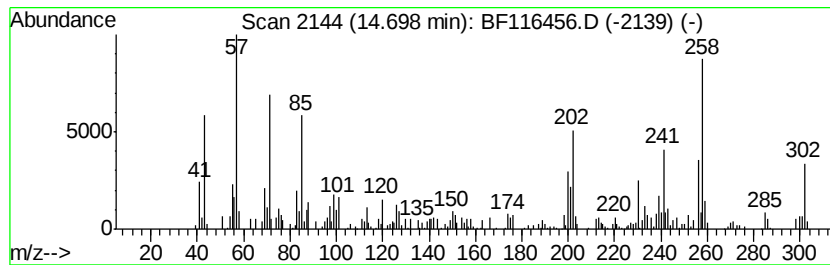
Instrument :  
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ClientSampleId :  
PX-03-081319

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073019.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 15 Hexadecane Concentration Rank 8

| R.T.      | EstConc        | Area   | Relative to ISTD | R.T.        |      |
|-----------|----------------|--------|------------------|-------------|------|
| 14.70     | 3.64 ng        | 143092 | Perylene-d12     | 15.42       |      |
| Hit# of 5 | Tentative ID   | MW     | MolForm          | CAS#        | Qual |
| 1         | Hexadecane     | 226    | C16H34           | 000544-76-3 | 89   |
| 2         | Heptadecane    | 240    | C17H36           | 000629-78-7 | 64   |
| 3         | Octadecane     | 254    | C18H38           | 000593-45-3 | 53   |
| 4         | Hentriacontane | 437    | C31H64           | 000630-04-6 | 50   |
| 5         | Hexacosane     | 366    | C26H54           | 000630-01-3 | 50   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082019\  
Data File : BF116456.D  
Acq On : 21 Aug 2019 3:08  
Operator : HP/JU  
Sample : K4354-03 2X  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
PX-03-081319

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

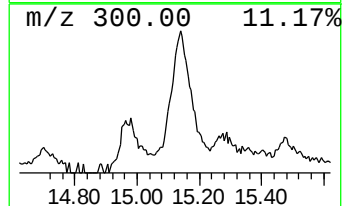
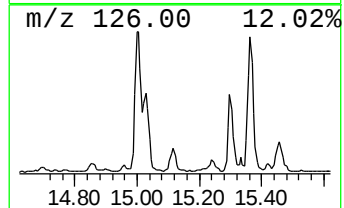
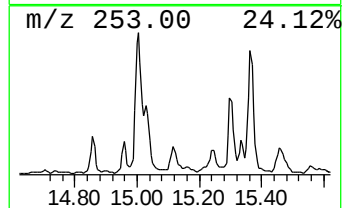
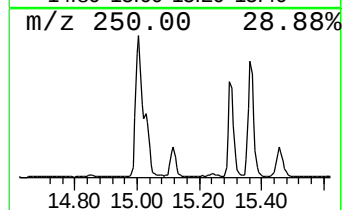
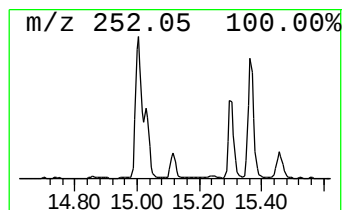
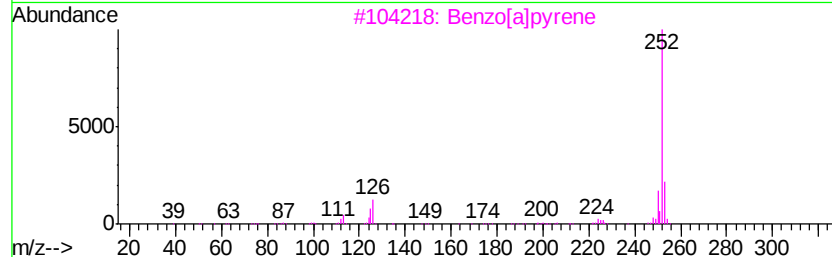
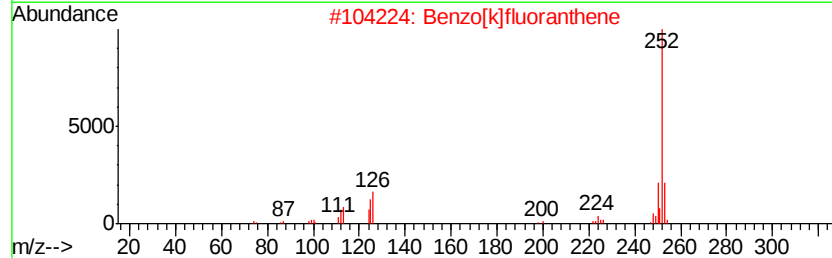
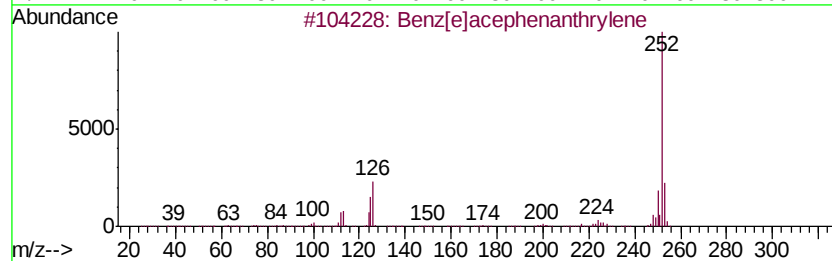
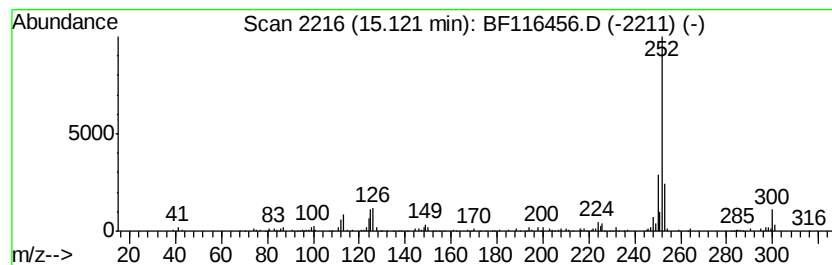
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 16 Benz[e]acephenanthrylene Concentration Rank 7

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 15.12 | 3.77 ng | 148048 | Perylene-d12     | 15.42 |

| Hit# | of | Tentative ID             | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------|-----|---------|-------------|------|
| 1    | 5  | Benz[e]acephenanthrylene | 252 | C20H12  | 000205-99-2 | 93   |
| 2    |    | Benzo[k]fluoranthene     | 252 | C20H12  | 000207-08-9 | 93   |
| 3    |    | Benzo[a]pyrene           | 252 | C20H12  | 000050-32-8 | 91   |
| 4    |    | Benzo[e]pyrene           | 252 | C20H12  | 000192-97-2 | 91   |
| 5    |    | Benzo[j]fluoranthene     | 252 | C20H12  | 000205-82-3 | 90   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082019\  
Data File : BF116456.D  
Acq On : 21 Aug 2019 3:08  
Operator : HP/JU  
Sample : K4354-03 2X  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

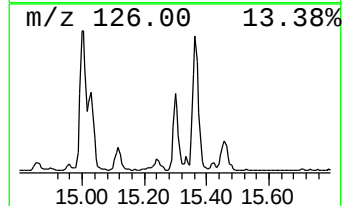
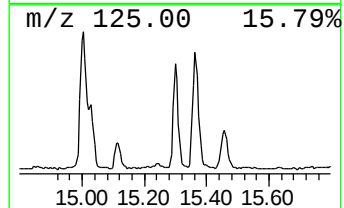
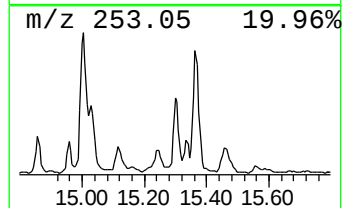
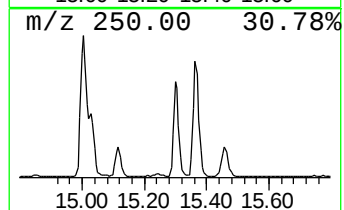
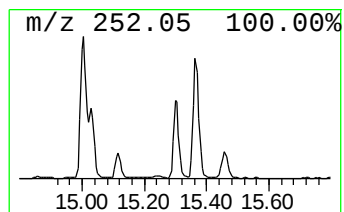
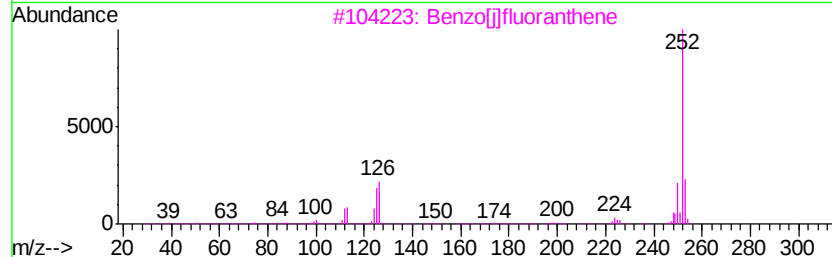
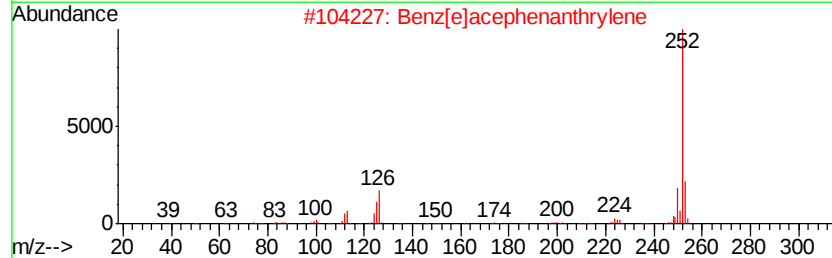
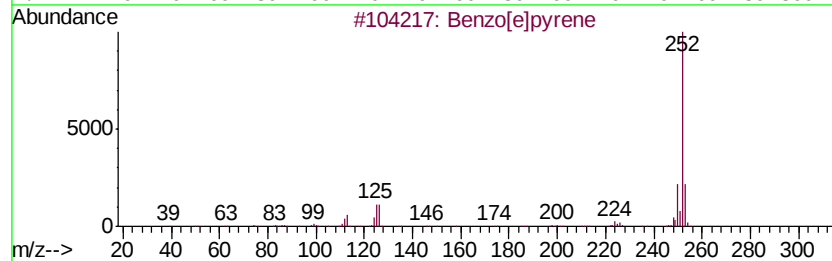
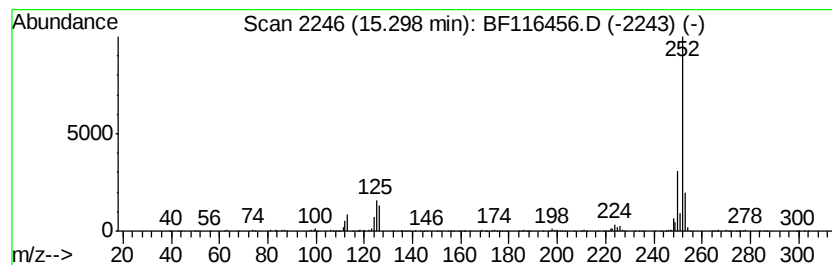
Instrument :  
BNA\_F  
ClientSampleId :  
PX-03-081319

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073019.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 17 Benzo[e]pyrene Concentration Rank 3

| R.T.      | EstConc                  | Area   | Relative to ISTD | R.T.        |      |
|-----------|--------------------------|--------|------------------|-------------|------|
| 15.30     | 8.32 ng                  | 326536 | Perylene-d12     | 15.42       |      |
| Hit# of 5 | Tentative ID             | MW     | MolForm          | CAS#        | Qual |
| 1         | Benzo[e]bpvrene          | 252    | C20H12           | 000192-97-2 | 98   |
| 2         | Benz[e]acephenanthrylene | 252    | C20H12           | 000205-99-2 | 96   |
| 3         | Benzo[i]fluoranthene     | 252    | C20H12           | 000205-82-3 | 95   |
| 4         | Benzo[a]bpvrene          | 252    | C20H12           | 000050-32-8 | 89   |
| 5         | Perylene                 | 252    | C20H12           | 000198-55-0 | 87   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF082019\  
 Data File : BF116456.D  
 Acq On : 21 Aug 2019 3:08  
 Operator : HP/JU  
 Sample : K4354-03 2X  
 Misc :  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PX-03-081319

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF073019.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 |
| 1,3,5-Cycloheptat... | 3.82  | 6.0     | ng    | 169876   | 1                     | 6.80  | 568313  | 20.0 |
| unknown6.58          | 6.58  | 32.6    | ng    | 926246   | 1                     | 6.80  | 568313  | 20.0 |
| Phenanthrene, 2-m... | 11.82 | 3.0     | ng    | 170036   | 4                     | 11.32 | 1152540 | 20.0 |
| Phenanthrene, 1-m... | 11.85 | 4.1     | ng    | 237374   | 4                     | 11.32 | 1152540 | 20.0 |
| Benzaldehyde, 3,5... | 11.93 | 4.4     | ng    | 252542   | 4                     | 11.32 | 1152540 | 20.0 |
| Naphthalene, 2-ph... | 12.12 | 2.0     | ng    | 118196   | 4                     | 11.32 | 1152540 | 20.0 |
| Phenanthrene, 2,5... | 12.37 | 2.2     | ng    | 126339   | 4                     | 11.32 | 1152540 | 20.0 |
| Pyrene, 1-methyl-    | 12.99 | 2.1     | ng    | 192932   | 5                     | 13.96 | 1811630 | 20.0 |
| 11H-Benzo[b]fluorene | 13.10 | 2.3     | ng    | 204979   | 5                     | 13.96 | 1811630 | 20.0 |
| Fluoranthene, 2-m... | 13.20 | 2.5     | ng    | 225492   | 5                     | 13.96 | 1811630 | 20.0 |
| Benzo[c]phenanthrene | 13.73 | 3.3     | ng    | 293962   | 5                     | 13.96 | 1811630 | 20.0 |
| 11H-Benzo[a]fluor... | 13.83 | 2.2     | ng    | 202174   | 5                     | 13.96 | 1811630 | 20.0 |
| Benz[a]anthracene... | 14.36 | 2.4     | ng    | 218098   | 5                     | 13.96 | 1811630 | 20.0 |
| Hexadecane           | 14.70 | 3.6     | ng    | 143092   | 6                     | 15.42 | 785275  | 20.0 |
| Benz[e]acephenant... | 15.12 | 3.8     | ng    | 148048   | 6                     | 15.42 | 785275  | 20.0 |
| Benzo[e]pyrene       | 15.30 | 8.3     | ng    | 326536   | 6                     | 15.42 | 785275  | 20.0 |