

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF122420\  
 Data File : BF122860.D  
 Acq On : 24 Dec 2020 17:42  
 Operator : JU/CG  
 Sample : L5199-01 5X  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 OR-03-122320

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF120520.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF122860.D\data.ms

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 5.434       | 565           | 569         | 586          | rBV      | 319786         | 368981        | 4.35%           | 0.369%        |
| 2         | 6.451       | 739           | 742         | 756          | rBV      | 330970         | 426281        | 5.03%           | 0.426%        |
| 3         | 6.816       | 801           | 804         | 812          | rVB      | 726269         | 645813        | 7.62%           | 0.646%        |
| 4         | 7.381       | 897           | 900         | 904          | rBV      | 219506         | 224477        | 2.65%           | 0.224%        |
| 5         | 8.104       | 1017          | 1023        | 1025         | rBV2     | 917197         | 1011816       | 11.93%          | 1.012%        |
| 6         | 8.122       | 1025          | 1026        | 1029         | rVV      | 241990         | 195082        | 2.30%           | 0.195%        |
| 7         | 8.692       | 1120          | 1123        | 1127         | rBV      | 349050         | 308941        | 3.64%           | 0.309%        |
| 8         | 8.816       | 1141          | 1144        | 1148         | rVB      | 441733         | 327200        | 3.86%           | 0.327%        |
| 9         | 8.916       | 1157          | 1161        | 1165         | rBV2     | 360980         | 349662        | 4.12%           | 0.350%        |
| 10        | 9.175       | 1202          | 1205        | 1210         | rVB      | 547844         | 458499        | 5.41%           | 0.459%        |
| 11        | 9.257       | 1216          | 1219        | 1222         | rBV      | 395793         | 390682        | 4.61%           | 0.391%        |
| 12        | 9.445       | 1247          | 1251        | 1255         | rVV2     | 228088         | 283231        | 3.34%           | 0.283%        |
| 13        | 9.516       | 1255          | 1263        | 1265         | rVV      | 350153         | 381940        | 4.50%           | 0.382%        |
| 14        | 9.539       | 1265          | 1267        | 1270         | rVV      | 205417         | 197693        | 2.33%           | 0.198%        |
| 15        | 9.581       | 1270          | 1274        | 1276         | rVV3     | 171906         | 196416        | 2.32%           | 0.196%        |
| 16        | 9.634       | 1280          | 1283        | 1288         | rVB2     | 190950         | 202176        | 2.38%           | 0.202%        |
| 17        | 9.786       | 1307          | 1309        | 1312         | rVB      | 400086         | 312028        | 3.68%           | 0.312%        |
| 18        | 9.857       | 1318          | 1321        | 1324         | rVB      | 987308         | 775144        | 9.14%           | 0.775%        |
| 19        | 9.892       | 1324          | 1327        | 1331         | rVB2     | 1096232        | 1021101       | 12.04%          | 1.021%        |
| 20        | 10.016      | 1343          | 1348        | 1352         | rBV3     | 152088         | 214696        | 2.53%           | 0.215%        |
| 21        | 10.063      | 1352          | 1356        | 1360         | rVB      | 660031         | 591003        | 6.97%           | 0.591%        |
| 22        | 10.286      | 1392          | 1394        | 1397         | rVV2     | 469535         | 353207        | 4.17%           | 0.353%        |
| 23        | 10.404      | 1410          | 1414        | 1420         | rVV      | 1058966        | 1007470       | 11.88%          | 1.008%        |
| 24        | 10.492      | 1427          | 1429        | 1431         | rVV      | 217440         | 230512        | 2.72%           | 0.231%        |
| 25        | 10.563      | 1438          | 1441        | 1444         | rVB      | 253455         | 247129        | 2.91%           | 0.247%        |
| 26        | 10.645      | 1452          | 1455        | 1459         | rVB      | 441783         | 439559        | 5.18%           | 0.440%        |
| 27        | 10.763      | 1472          | 1475        | 1482         | rVB2     | 389064         | 535449        | 6.31%           | 0.535%        |
| 28        | 10.951      | 1503          | 1507        | 1510         | rBV2     | 229879         | 283204        | 3.34%           | 0.283%        |
| 29        | 11.081      | 1525          | 1529        | 1531         | rBV3     | 138428         | 180269        | 2.13%           | 0.180%        |
| 30        | 11.104      | 1531          | 1533        | 1539         | rVV      | 176082         | 184138        | 2.17%           | 0.184%        |
| 31        | 11.210      | 1545          | 1551        | 1553         | rVV2     | 374938         | 448251        | 5.29%           | 0.448%        |
| 32        | 11.239      | 1553          | 1556        | 1562         | rVB      | 588381         | 569517        | 6.72%           | 0.570%        |
| 33        | 11.345      | 1571          | 1574        | 1576         | rBV      | 796365         | 831935        | 9.81%           | 0.832%        |
| 34        | 11.375      | 1576          | 1579        | 1582         | rVV      | 4269956        | 4241737       | 50.02%          | 4.242%        |
| 35        | 11.422      | 1584          | 1587        | 1590         | rVV      | 1737810        | 1475573       | 17.40%          | 1.476%        |
| 36        | 11.580      | 1607          | 1614        | 1621         | rBV2     | 499812         | 732839        | 8.64%           | 0.733%        |

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 Sample : L5199-01 5X  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 OR-03-122320

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

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

Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF120520.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 37 | 11.639 | 1621 | 1624 | 1626 | rBV2 | 362787  | 356805  | 4.21%  | 0.357% |
| 38 | 11.675 | 1629 | 1630 | 1635 | rVB2 | 243506  | 211987  | 2.50%  | 0.212% |
| 39 | 11.739 | 1637 | 1641 | 1644 | rBV  | 3951551 | 3356593 | 39.59% | 3.357% |
| 40 | 11.845 | 1656 | 1659 | 1662 | rVV  | 695980  | 720748  | 8.50%  | 0.721% |

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 41 | 11.880 | 1662 | 1665 | 1669 | rVV2 | 1578427 | 1614868 | 19.04% | 1.615% |
| 42 | 11.922 | 1669 | 1672 | 1675 | rVV  | 437757  | 462499  | 5.45%  | 0.463% |
| 43 | 11.963 | 1675 | 1679 | 1681 | rVV  | 1379105 | 1489317 | 17.56% | 1.489% |
| 44 | 11.980 | 1681 | 1682 | 1687 | rVB  | 557515  | 403014  | 4.75%  | 0.403% |
| 45 | 12.045 | 1688 | 1693 | 1697 | rBV3 | 255843  | 373053  | 4.40%  | 0.373% |

|    |        |      |      |      |     |         |         |         |        |
|----|--------|------|------|------|-----|---------|---------|---------|--------|
| 46 | 12.145 | 1706 | 1710 | 1712 | rVV | 530955  | 502087  | 5.92%   | 0.502% |
| 47 | 12.175 | 1712 | 1715 | 1718 | rVB | 304018  | 265542  | 3.13%   | 0.266% |
| 48 | 12.398 | 1749 | 1753 | 1755 | rBV | 513093  | 549508  | 6.48%   | 0.550% |
| 49 | 12.427 | 1755 | 1758 | 1760 | rVV | 4030711 | 4699413 | 55.42%  | 4.700% |
| 50 | 12.457 | 1760 | 1763 | 1767 | rVV | 7062022 | 8479421 | 100.00% | 8.480% |

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 51 | 12.492 | 1767 | 1769 | 1772 | rVB2 | 289584  | 310380  | 3.66%  | 0.310% |
| 52 | 12.533 | 1772 | 1776 | 1778 | rBV  | 2080617 | 1808151 | 21.32% | 1.808% |
| 53 | 12.575 | 1778 | 1783 | 1785 | rVV  | 4887431 | 6205691 | 73.19% | 6.206% |
| 54 | 12.598 | 1785 | 1787 | 1796 | rVV3 | 2177830 | 2738442 | 32.30% | 2.739% |
| 55 | 12.663 | 1796 | 1798 | 1802 | rVV3 | 297045  | 339582  | 4.00%  | 0.340% |

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 56 | 12.716 | 1804 | 1807 | 1811 | rVV  | 388062  | 421104  | 4.97%  | 0.421% |
| 57 | 12.804 | 1814 | 1822 | 1826 | rVB2 | 4477539 | 6229120 | 73.46% | 6.230% |
| 58 | 12.845 | 1826 | 1829 | 1833 | rVB2 | 292931  | 376280  | 4.44%  | 0.376% |
| 59 | 12.916 | 1837 | 1841 | 1842 | rBV  | 320743  | 370733  | 4.37%  | 0.371% |
| 60 | 12.927 | 1842 | 1843 | 1846 | rVV  | 467316  | 375145  | 4.42%  | 0.375% |

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 61 | 12.957 | 1846 | 1848 | 1852 | rVB  | 296013  | 319429  | 3.77%  | 0.319% |
| 62 | 13.010 | 1852 | 1857 | 1860 | rBV2 | 464357  | 736216  | 8.68%  | 0.736% |
| 63 | 13.122 | 1868 | 1876 | 1879 | rBV2 | 1153941 | 1637721 | 19.31% | 1.638% |
| 64 | 13.163 | 1879 | 1883 | 1884 | rBV3 | 255927  | 285643  | 3.37%  | 0.286% |
| 65 | 13.186 | 1884 | 1887 | 1890 | rVB  | 794885  | 741950  | 8.75%  | 0.742% |

|    |        |      |      |      |      |        |        |       |        |
|----|--------|------|------|------|------|--------|--------|-------|--------|
| 66 | 13.227 | 1890 | 1894 | 1896 | rBV2 | 558054 | 641406 | 7.56% | 0.641% |
| 67 | 13.251 | 1896 | 1898 | 1901 | rVB2 | 327423 | 329015 | 3.88% | 0.329% |
| 68 | 13.316 | 1906 | 1909 | 1911 | rVV  | 389600 | 295838 | 3.49% | 0.296% |
| 69 | 13.345 | 1911 | 1914 | 1918 | rVB  | 393246 | 402080 | 4.74% | 0.402% |
| 70 | 13.422 | 1924 | 1927 | 1934 | rVB6 | 214907 | 417958 | 4.93% | 0.418% |

|    |        |      |      |      |      |        |        |       |        |
|----|--------|------|------|------|------|--------|--------|-------|--------|
| 71 | 13.633 | 1960 | 1963 | 1967 | rVV  | 383139 | 419534 | 4.95% | 0.420% |
| 72 | 13.686 | 1968 | 1972 | 1975 | rVB5 | 310250 | 380605 | 4.49% | 0.381% |
| 73 | 13.739 | 1977 | 1981 | 1983 | rBV  | 647925 | 638062 | 7.52% | 0.638% |
| 74 | 13.769 | 1983 | 1986 | 1988 | rVV  | 549269 | 562245 | 6.63% | 0.562% |
| 75 | 13.792 | 1988 | 1990 | 1995 | rVV2 | 488329 | 735120 | 8.67% | 0.735% |

|    |        |      |      |      |     |        |        |       |        |
|----|--------|------|------|------|-----|--------|--------|-------|--------|
| 76 | 13.839 | 1995 | 1998 | 2002 | rVB | 395882 | 438144 | 5.17% | 0.438% |
|----|--------|------|------|------|-----|--------|--------|-------|--------|

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 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 OR-03-122320

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

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

Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF120520.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|     |        |      |      |      |      |         |         |        |        |
|-----|--------|------|------|------|------|---------|---------|--------|--------|
| 77  | 13.922 | 2008 | 2012 | 2016 | rVB2 | 244037  | 397204  | 4.68%  | 0.397% |
| 78  | 13.986 | 2016 | 2023 | 2027 | rBV2 | 2886686 | 4809677 | 56.72% | 4.810% |
| 79  | 14.022 | 2027 | 2029 | 2036 | rVB  | 2640206 | 2628230 | 31.00% | 2.628% |
| 80  | 14.098 | 2040 | 2042 | 2047 | rVV  | 737683  | 645472  | 7.61%  | 0.646% |
| 81  | 14.145 | 2047 | 2050 | 2055 | rVV5 | 220145  | 360220  | 4.25%  | 0.360% |
| 82  | 14.221 | 2058 | 2063 | 2065 | rVB2 | 231157  | 330650  | 3.90%  | 0.331% |
| 83  | 14.339 | 2080 | 2083 | 2085 | rVV2 | 265661  | 230296  | 2.72%  | 0.230% |
| 84  | 14.380 | 2085 | 2090 | 2092 | rVV  | 599233  | 665997  | 7.85%  | 0.666% |
| 85  | 14.410 | 2092 | 2095 | 2099 | rVB  | 301421  | 266259  | 3.14%  | 0.266% |
| 86  | 14.451 | 2099 | 2102 | 2104 | rBV3 | 279768  | 337086  | 3.98%  | 0.337% |
| 87  | 14.504 | 2108 | 2111 | 2113 | rVV  | 340862  | 298519  | 3.52%  | 0.299% |
| 88  | 14.521 | 2113 | 2114 | 2117 | rVB  | 297810  | 193529  | 2.28%  | 0.194% |
| 89  | 14.692 | 2141 | 2143 | 2152 | rVB6 | 205757  | 327660  | 3.86%  | 0.328% |
| 90  | 14.874 | 2170 | 2174 | 2181 | rBV3 | 412481  | 597863  | 7.05%  | 0.598% |
| 91  | 15.045 | 2196 | 2203 | 2205 | rBV  | 2185724 | 3901567 | 46.01% | 3.902% |
| 92  | 15.139 | 2216 | 2219 | 2223 | rVB  | 579394  | 585380  | 6.90%  | 0.585% |
| 93  | 15.339 | 2248 | 2253 | 2259 | rVB  | 1445933 | 2057131 | 24.26% | 2.057% |
| 94  | 15.410 | 2259 | 2265 | 2268 | rVV  | 2157701 | 2951747 | 34.81% | 2.952% |
| 95  | 15.463 | 2270 | 2274 | 2276 | rVV  | 848495  | 1048092 | 12.36% | 1.048% |
| 96  | 15.492 | 2276 | 2279 | 2285 | rVB  | 804022  | 1034621 | 12.20% | 1.035% |
| 97  | 16.015 | 2365 | 2368 | 2373 | rVB2 | 163460  | 213565  | 2.52%  | 0.214% |
| 98  | 16.927 | 2516 | 2523 | 2528 | rBV  | 985113  | 1875397 | 22.12% | 1.876% |
| 99  | 17.368 | 2591 | 2598 | 2607 | rVB  | 717189  | 1642529 | 19.37% | 1.643% |
| 100 | 17.598 | 2633 | 2637 | 2642 | rBV  | 165486  | 308035  | 3.63%  | 0.308% |

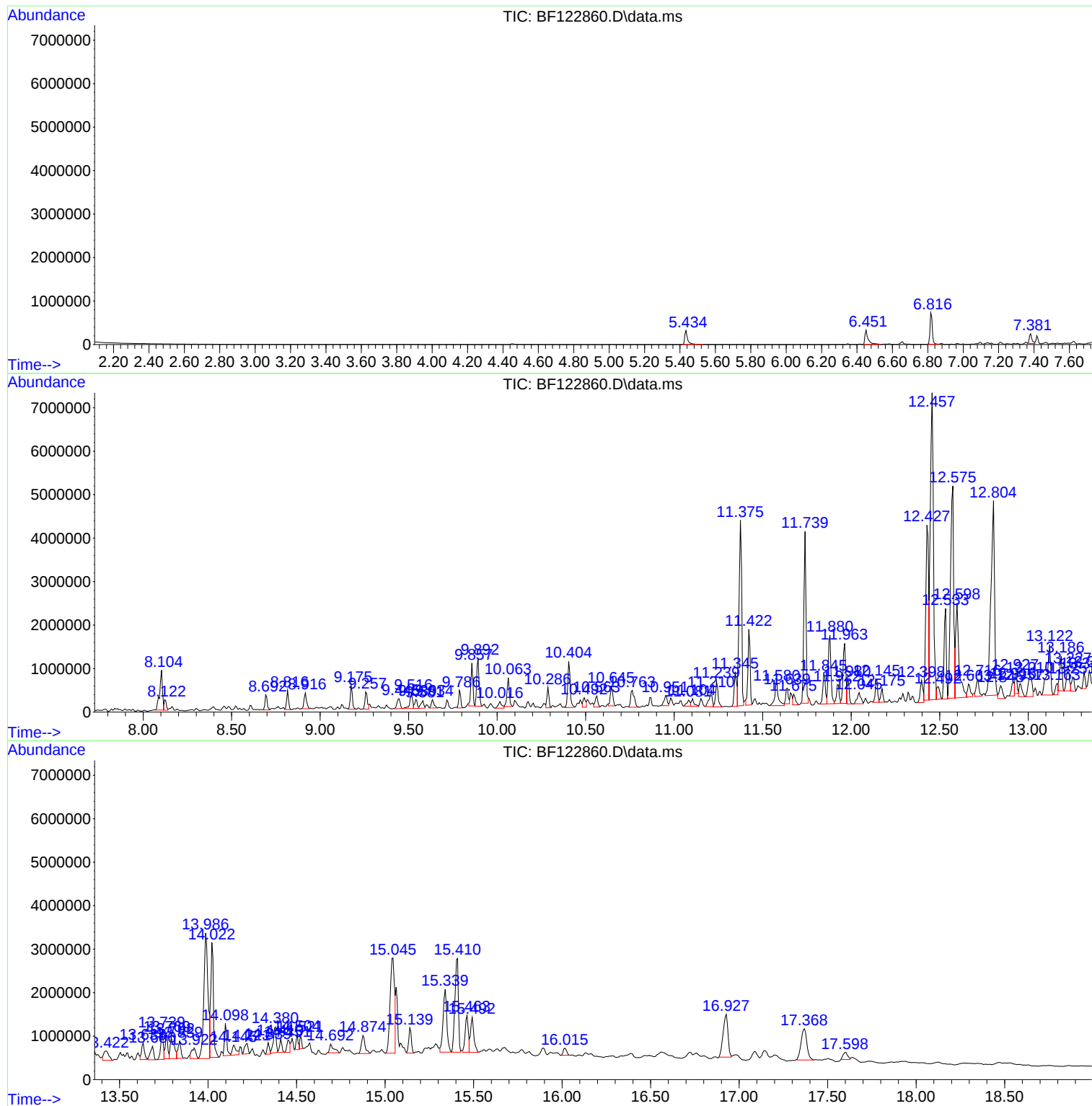
Sum of corrected areas: 99990826

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF122420\  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF120520.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF122420\  
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Sample : L5199-01 5X  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OR-03-122320

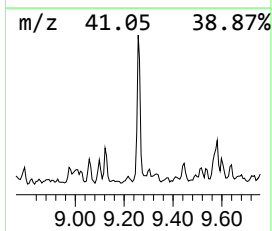
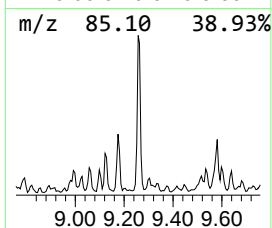
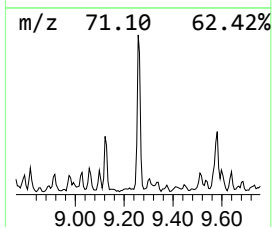
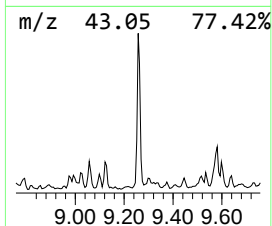
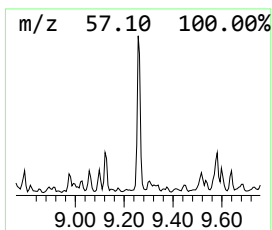
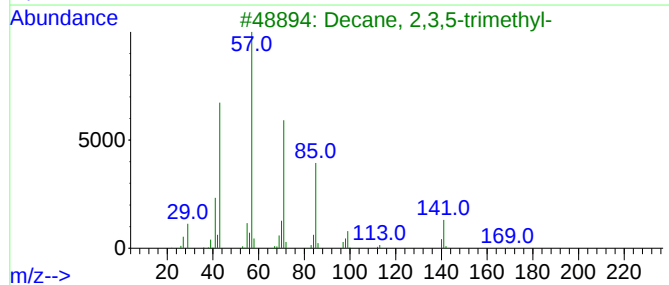
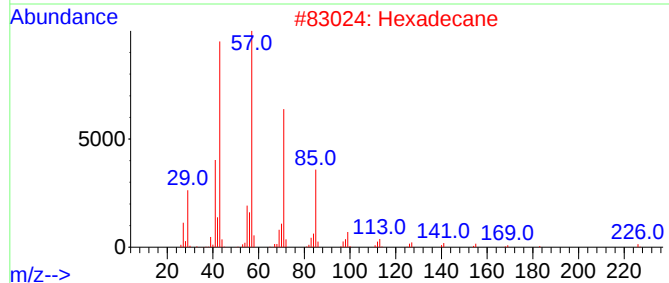
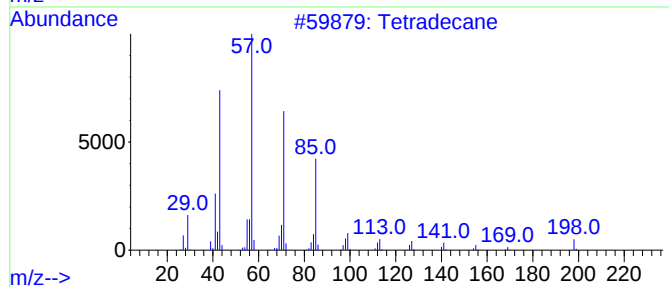
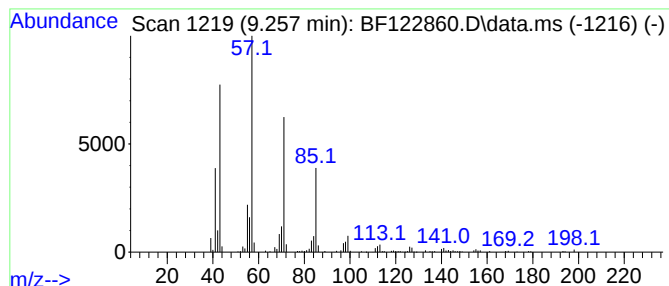
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF120520.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 1 Tetradecane Concentration Rank 16

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 9.257 | 10.08 ng | 390682 | Acenaphthene-d10 | 9.857 |

| Hit# | of | 5 | Tentative ID             | MW  | MolForm | CAS#        | Qual |
|------|----|---|--------------------------|-----|---------|-------------|------|
| 1    |    |   | Tetradecane              | 198 | C14H30  | 000629-59-4 | 95   |
| 2    |    |   | Hexadecane               | 226 | C16H34  | 000544-76-3 | 91   |
| 3    |    |   | Decane, 2,3,5-trimethyl- | 184 | C13H28  | 062238-11-3 | 90   |
| 4    |    |   | Tridecane, 7-propyl-     | 226 | C16H34  | 055045-09-5 | 86   |
| 5    |    |   | Tridecane                | 184 | C13H28  | 000629-50-5 | 86   |



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BNA\_F  
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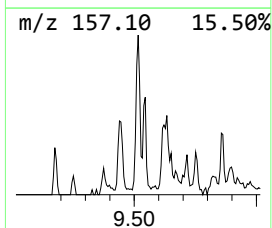
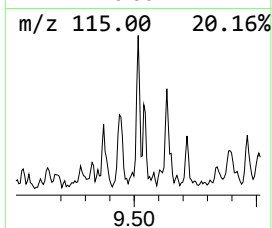
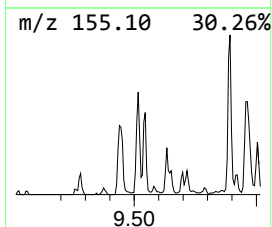
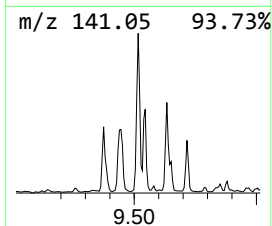
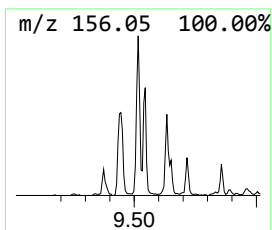
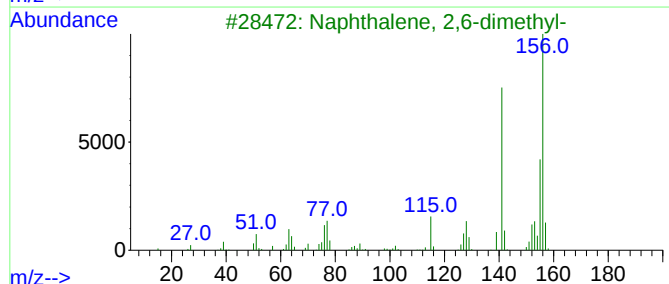
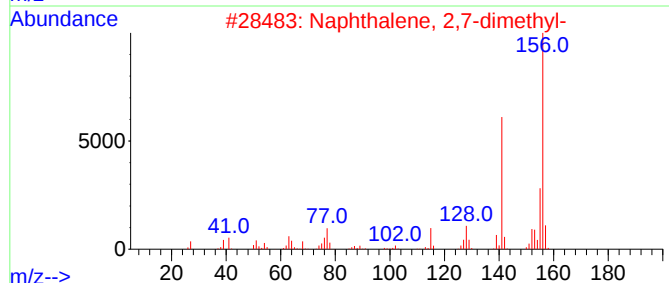
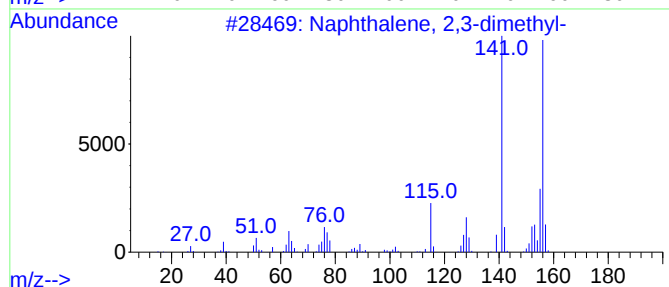
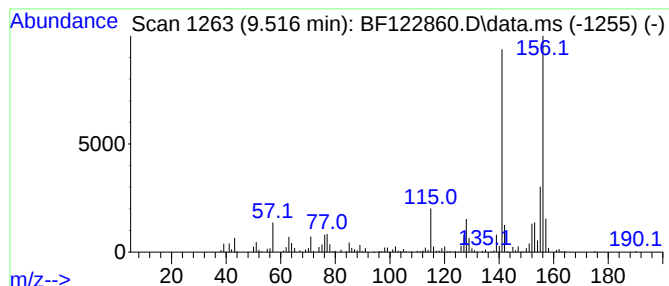
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 2 Naphthalene, 2,3-dimethyl- Concentration Rank 17

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 9.516 | 9.85 ng | 381940 | Acenaphthene-d10 | 9.857 |

| Hit# | of 5 | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|------|----------------------------|-----|---------|-------------|------|
| 1    |      | Naphthalene, 2,3-dimethyl- | 156 | C12H12  | 000581-40-8 | 98   |
| 2    |      | Naphthalene, 2,7-dimethyl- | 156 | C12H12  | 000582-16-1 | 97   |
| 3    |      | Naphthalene, 2,6-dimethyl- | 156 | C12H12  | 000581-42-0 | 97   |
| 4    |      | Naphthalene, 1,4-dimethyl- | 156 | C12H12  | 000571-58-4 | 97   |
| 5    |      | Naphthalene, 1,7-dimethyl- | 156 | C12H12  | 000575-37-1 | 96   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF122420\  
Data File : BF122860.D  
Acq On : 24 Dec 2020 17:42  
Operator : JU/CG  
Sample : L5199-01 5X  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OR-03-122320

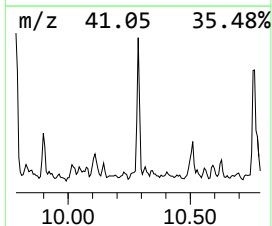
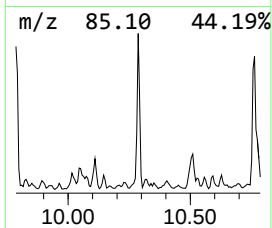
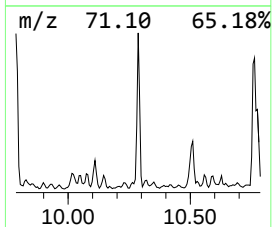
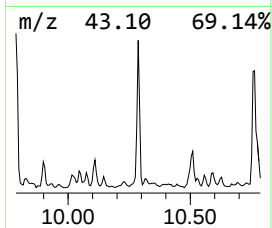
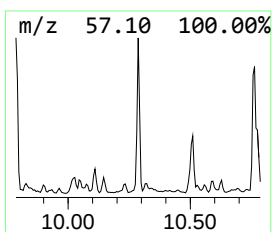
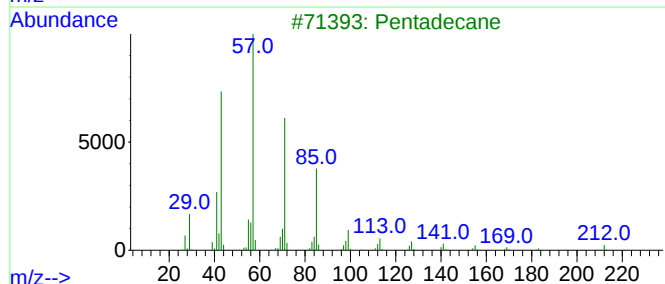
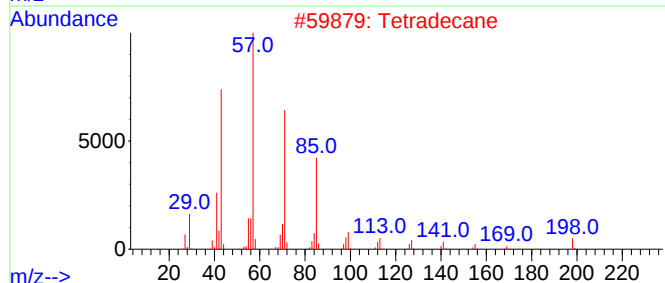
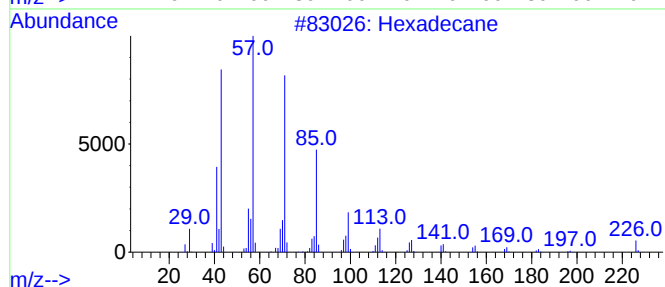
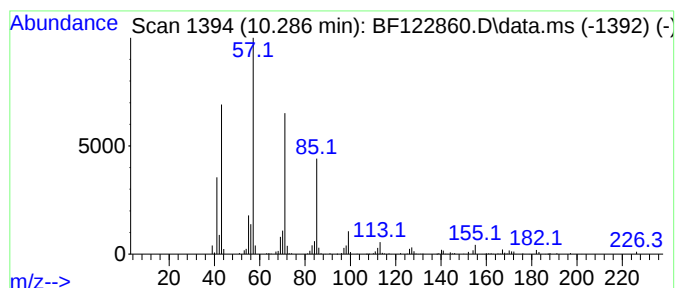
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 3 Hexadecane Concentration Rank 19

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.  |
|--------|---------|--------|------------------|-------|
| 10.286 | 9.11 ng | 353207 | Acenaphthene-d10 | 9.857 |

| Hit# | of | 5 | Tentative ID      | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------|-----|---------|-------------|------|
| 1    |    |   | Hexadecane        | 226 | C16H34  | 000544-76-3 | 95   |
| 2    |    |   | Tetradecane       | 198 | C14H30  | 000629-59-4 | 90   |
| 3    |    |   | Pentadecane       | 212 | C15H32  | 000629-62-9 | 90   |
| 4    |    |   | Dodecane, 1-iodo- | 296 | C12H25I | 004292-19-7 | 80   |
| 5    |    |   | Dodecane          | 170 | C12H26  | 000112-40-3 | 80   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF122420\  
Data File : BF122860.D  
Acq On : 24 Dec 2020 17:42  
Operator : JU/CG  
Sample : L5199-01 5X  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OR-03-122320

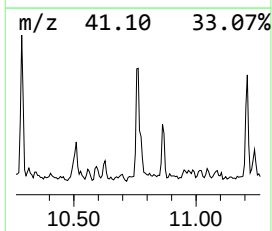
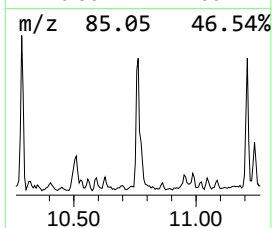
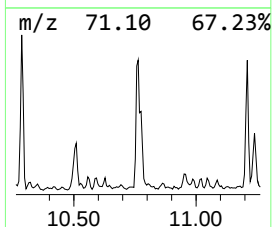
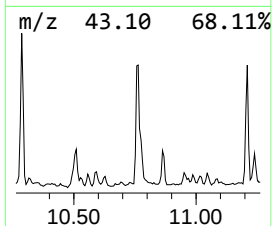
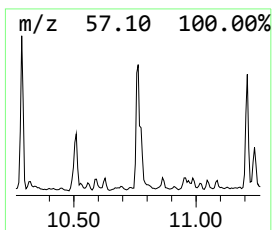
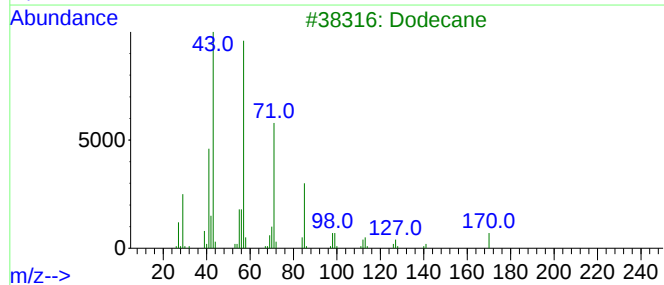
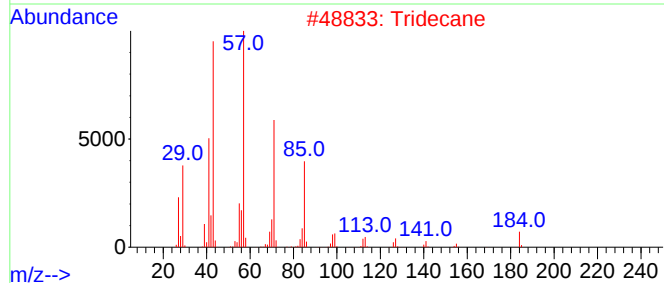
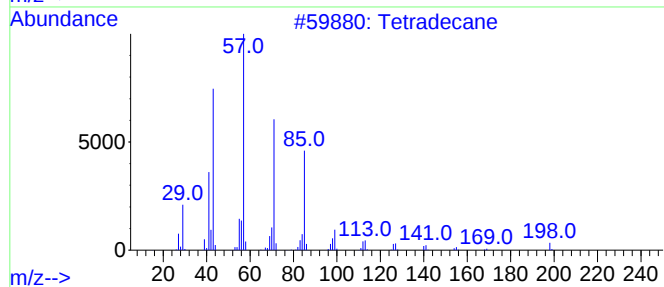
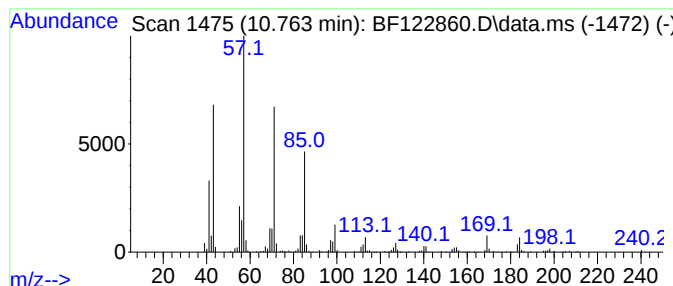
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 4 Tridecane Concentration Rank 10

| R.T.   | EstConc  | Area   | Relative to ISTD | R.T.   |
|--------|----------|--------|------------------|--------|
| 10.763 | 12.87 ng | 535449 | Phenanthrene-d10 | 11.345 |

| Hit# | of | 5 | Tentative ID | MW  | MolForm | CAS#        | Qual |
|------|----|---|--------------|-----|---------|-------------|------|
| 1    |    |   | Tetradecane  | 198 | C14H30  | 000629-59-4 | 94   |
| 2    |    |   | Tridecane    | 184 | C13H28  | 000629-50-5 | 91   |
| 3    |    |   | Dodecane     | 170 | C12H26  | 000112-40-3 | 87   |
| 4    |    |   | Octadecane   | 254 | C18H38  | 000593-45-3 | 83   |
| 5    |    |   | Heneicosane  | 296 | C21H44  | 000629-94-7 | 83   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF122420\  
Data File : BF122860.D  
Acq On : 24 Dec 2020 17:42  
Operator : JU/CG  
Sample : L5199-01 5X  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OR-03-122320

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF120520.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

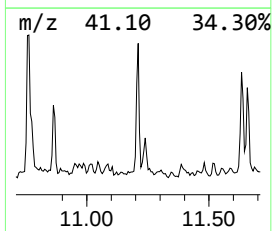
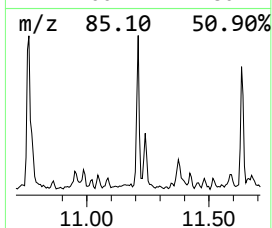
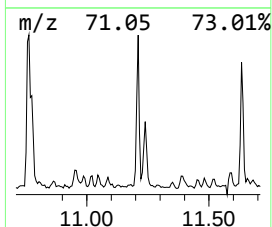
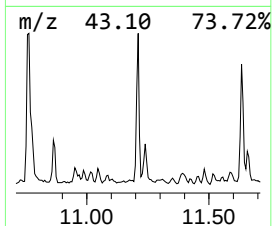
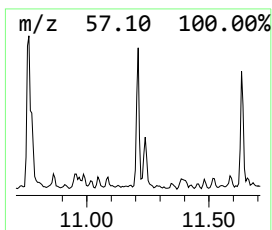
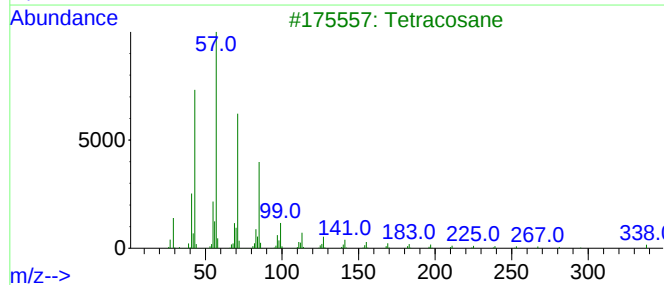
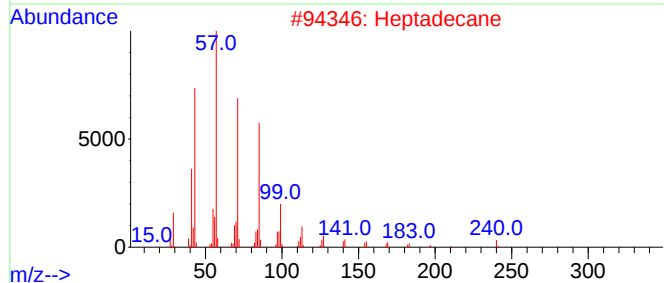
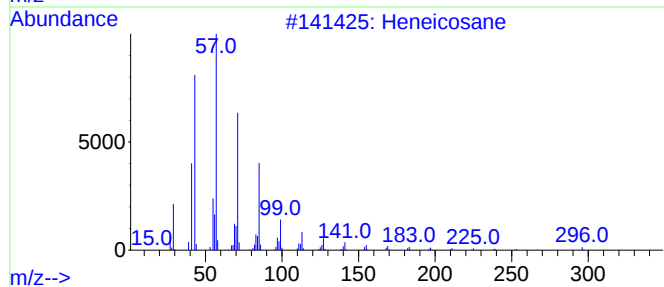
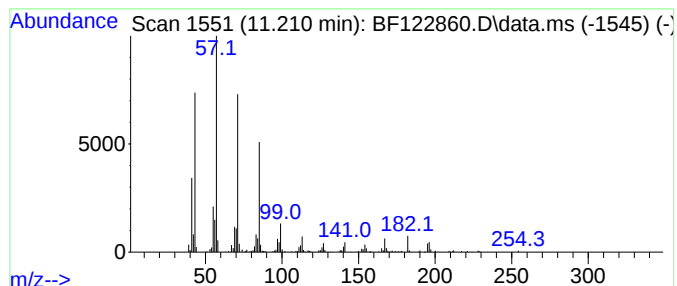
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 5 Heneicosane Concentration Rank 15

| R.T.   | EstConc  | Area   | Relative to ISTD | R.T.   |
|--------|----------|--------|------------------|--------|
| 11.210 | 10.78 ng | 448251 | Phenanthrene-d10 | 11.345 |

| Hit# | of | 5 | Tentative ID | MW  | MolForm | CAS#        | Qual |
|------|----|---|--------------|-----|---------|-------------|------|
| 1    |    |   | Heneicosane  | 296 | C21H44  | 000629-94-7 | 74   |
| 2    |    |   | Heptadecane  | 240 | C17H36  | 000629-78-7 | 74   |
| 3    |    |   | Tetracosane  | 338 | C24H50  | 000646-31-1 | 74   |
| 4    |    |   | Pentadecane  | 212 | C15H32  | 000629-62-9 | 72   |
| 5    |    |   | Tetradecane  | 198 | C14H30  | 000629-59-4 | 72   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF122420\  
Data File : BF122860.D  
Acq On : 24 Dec 2020 17:42  
Operator : JU/CG  
Sample : L5199-01 5X  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OR-03-122320

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF120520.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

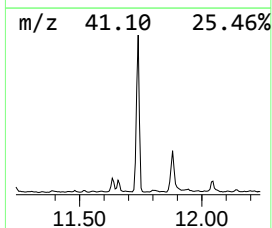
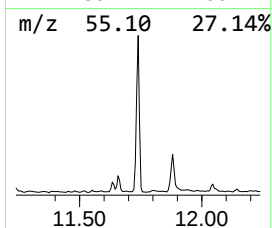
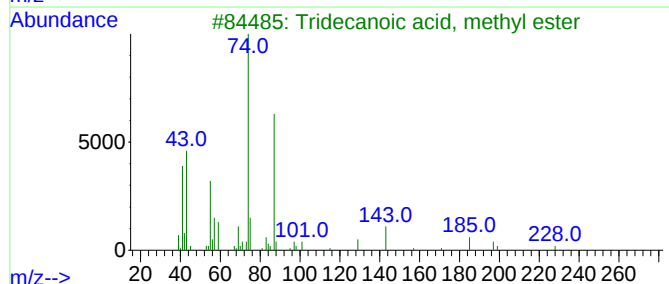
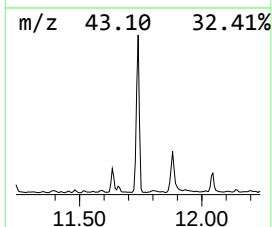
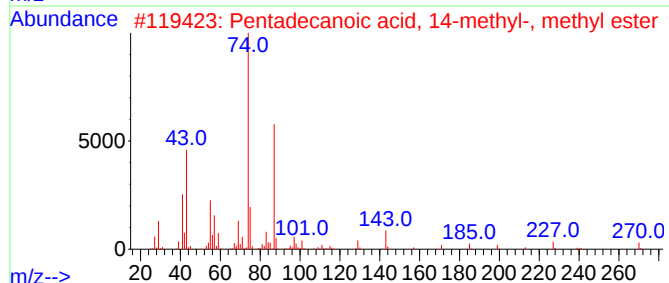
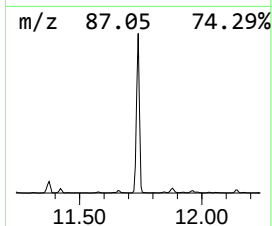
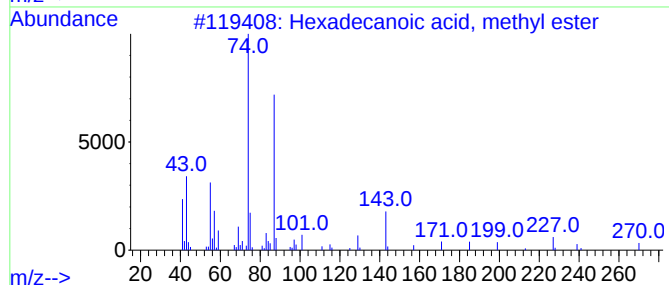
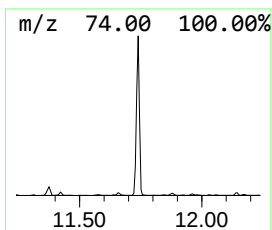
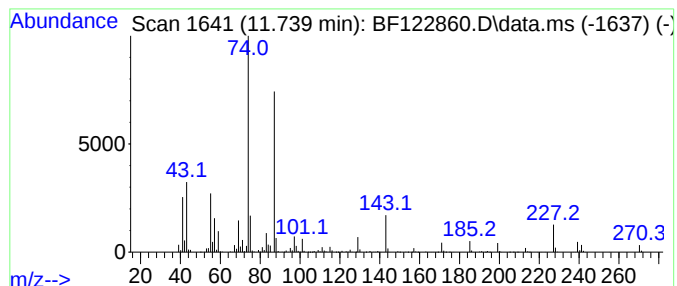
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Peak Number 7 Hexadecanoic acid, methyl e... Concentration Rank 3

| R.T.   | EstConc  | Area    | Relative to ISTD | R.T.   |
|--------|----------|---------|------------------|--------|
| 11.739 | 80.69 ng | 3356590 | Phenanthrene-d10 | 11.345 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|----------|-------------|------|
| 1    |    |   | Hexadecanoic acid, methyl ester     | 270 | C17H34O2 | 000112-39-0 | 98   |
| 2    |    |   | Pentadecanoic acid, 14-methyl-, ... | 270 | C17H34O2 | 005129-60-2 | 95   |
| 3    |    |   | Tridecanoic acid, methyl ester      | 228 | C14H28O2 | 001731-88-0 | 90   |
| 4    |    |   | Decanoic acid, methyl ester         | 186 | C11H22O2 | 000110-42-9 | 87   |
| 5    |    |   | Pentadecanoic acid, methyl ester    | 256 | C16H32O2 | 007132-64-1 | 86   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF122420\  
Data File : BF122860.D  
Acq On : 24 Dec 2020 17:42  
Operator : JU/CG  
Sample : L5199-01 5X  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OR-03-122320

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF120520.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

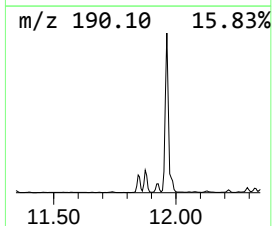
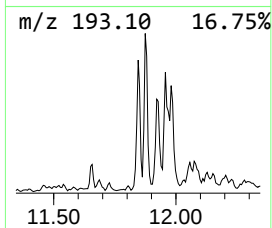
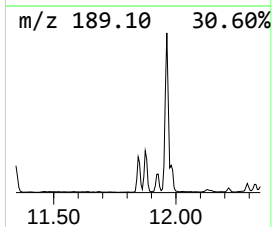
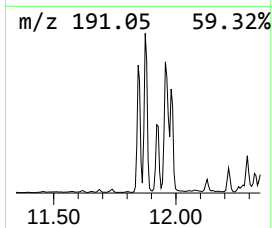
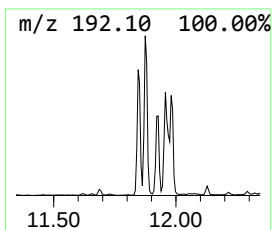
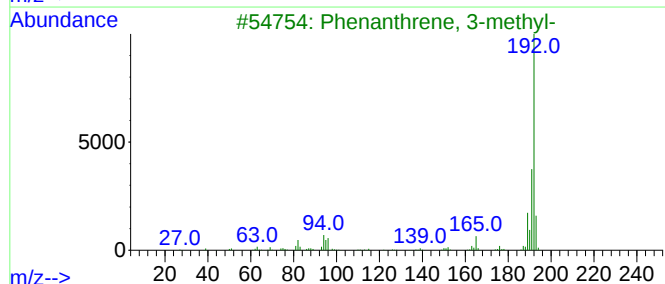
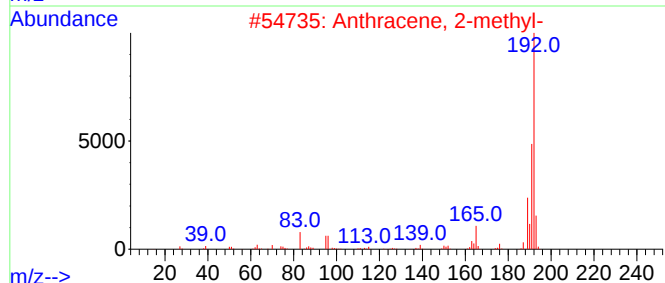
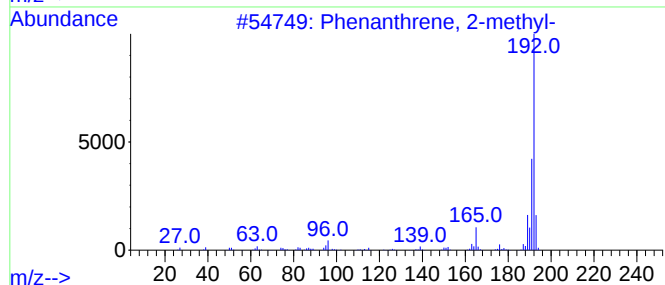
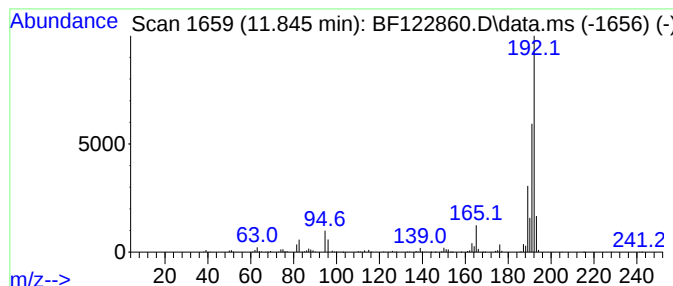
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 8 Anthracene, 2-methyl- Concentration Rank 7

| R.T.   | EstConc  | Area   | Relative to ISTD | R.T.   |
|--------|----------|--------|------------------|--------|
| 11.845 | 17.33 ng | 720748 | Phenanthrene-d10 | 11.345 |

| Hit# | of 5 | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|------|------|-------------------------|-----|---------|-------------|------|
| 1    |      | Phenanthrene, 2-methyl- | 192 | C15H12  | 002531-84-2 | 96   |
| 2    |      | Anthracene, 2-methyl-   | 192 | C15H12  | 000613-12-7 | 93   |
| 3    |      | Phenanthrene, 3-methyl- | 192 | C15H12  | 000832-71-3 | 93   |
| 4    |      | Anthracene, 1-methyl-   | 192 | C15H12  | 000610-48-0 | 90   |
| 5    |      | Anthracene, 9-methyl-   | 192 | C15H12  | 000779-02-2 | 87   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF122420\  
Data File : BF122860.D  
Acq On : 24 Dec 2020 17:42  
Operator : JU/CG  
Sample : L5199-01 5X  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OR-03-122320

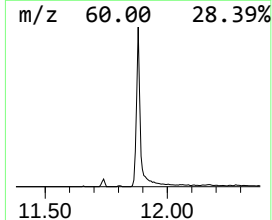
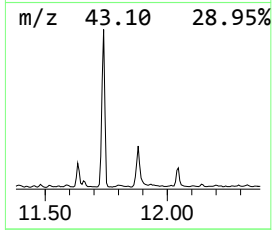
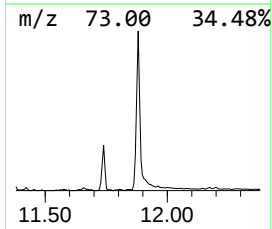
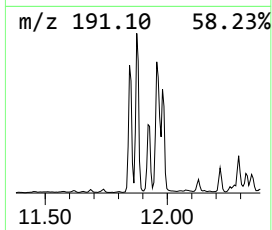
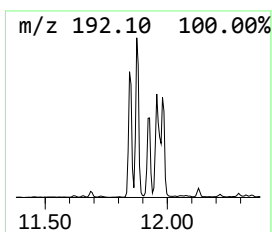
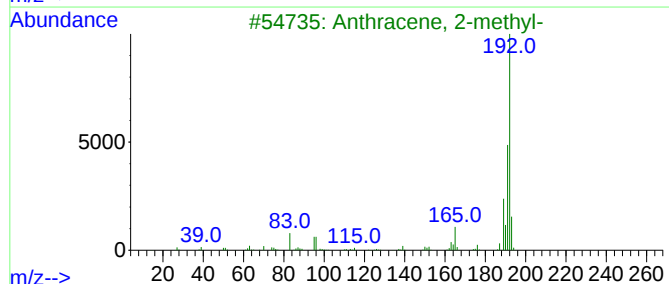
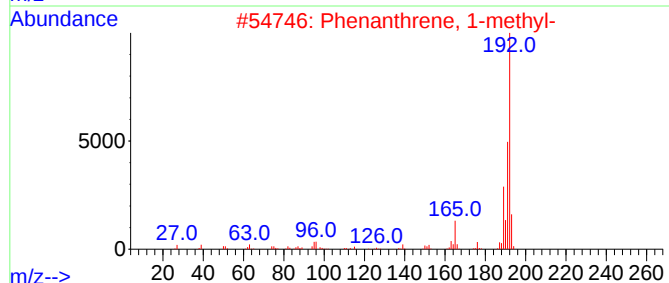
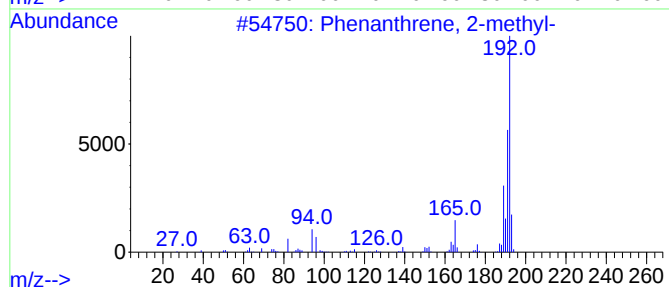
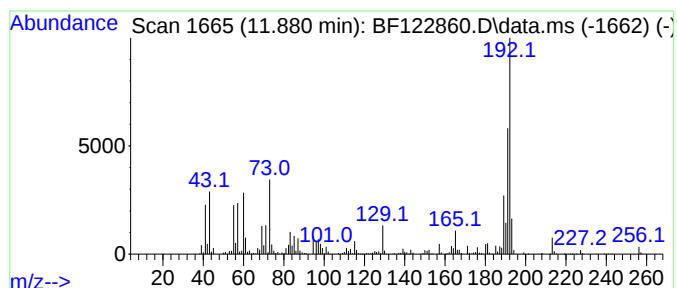
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 9 Phenanthrene, 2-methyl- Concentration Rank 5

| R.T.      | EstConc                 | Area    | Relative to ISTD | R.T.        |      |
|-----------|-------------------------|---------|------------------|-------------|------|
| 11.881    | 38.82 ng                | 1614870 | Phenanthrene-d10 | 11.345      |      |
| 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 | 97   |
| 3         | Anthracene, 2-methyl-   | 192     | C15H12           | 000613-12-7 | 96   |
| 4         | Anthracene, 9-methyl-   | 192     | C15H12           | 000779-02-2 | 96   |
| 5         | Anthracene, 1-methyl-   | 192     | C15H12           | 000610-48-0 | 92   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF122420\  
Data File : BF122860.D  
Acq On : 24 Dec 2020 17:42  
Operator : JU/CG  
Sample : L5199-01 5X  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OR-03-122320

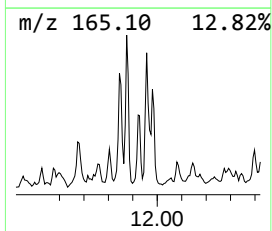
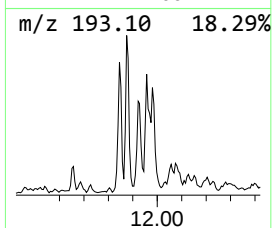
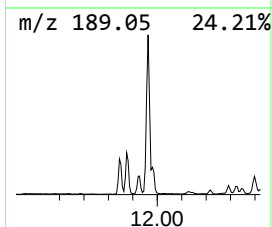
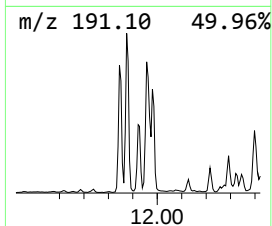
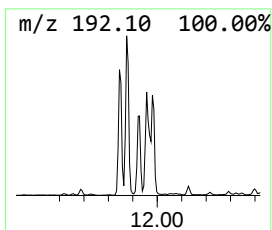
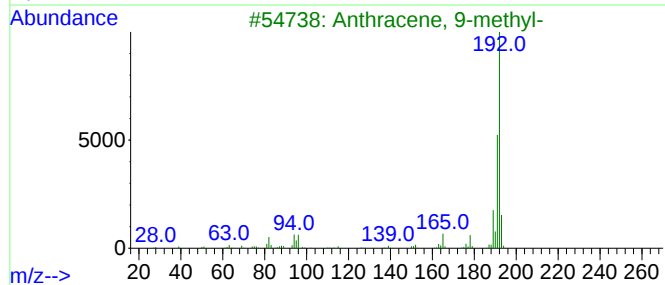
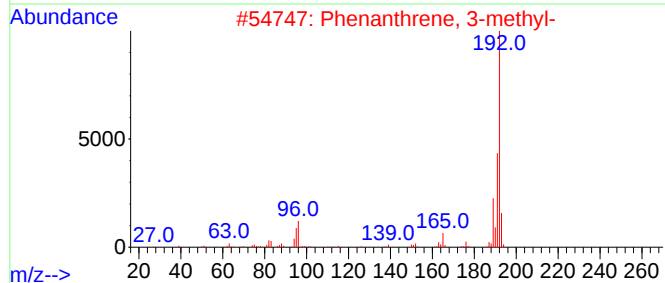
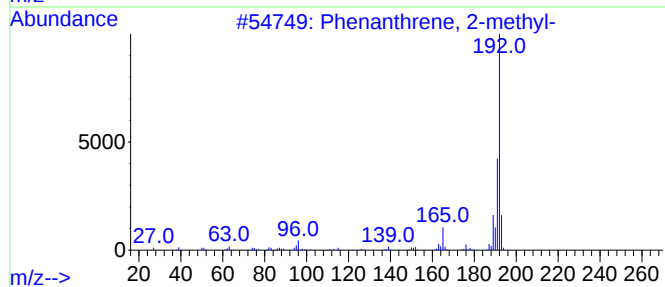
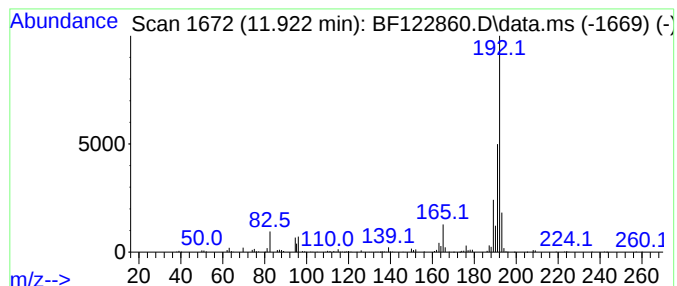
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 10 Phenanthrene, 3-methyl- Concentration Rank 14

| R.T.      | EstConc                             | Area   | Relative to ISTD |         | R.T.        |      |
|-----------|-------------------------------------|--------|------------------|---------|-------------|------|
| 11.922    | 11.12 ng                            | 462499 | Phenanthrene-d10 |         | 11.345      |      |
| Hit# of 5 | Tentative ID                        |        | MW               | MolForm | CAS#        | Qual |
| 1         | Phenanthrene, 2-methyl-             |        | 192              | C15H12  | 002531-84-2 | 97   |
| 2         | Phenanthrene, 3-methyl-             |        | 192              | C15H12  | 000832-71-3 | 95   |
| 3         | Anthracene, 9-methyl-               |        | 192              | C15H12  | 000779-02-2 | 94   |
| 4         | Naphtho[2,3-b]norbornadiene         |        | 192              | C15H12  | 107426-38-0 | 93   |
| 5         | 1H-Cyclopropa[1]phenanthrene,1a,... |        | 192              | C15H12  | 000949-41-7 | 93   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF122420\  
Data File : BF122860.D  
Acq On : 24 Dec 2020 17:42  
Operator : JU/CG  
Sample : L5199-01 5X  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OR-03-122320

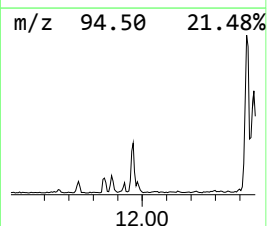
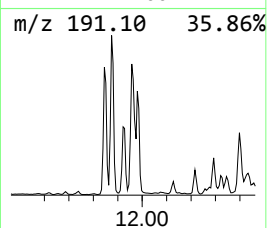
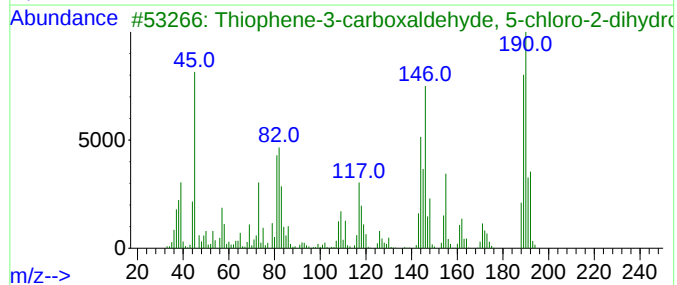
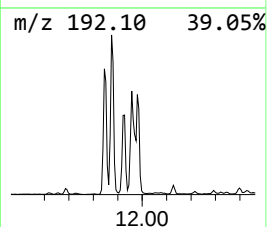
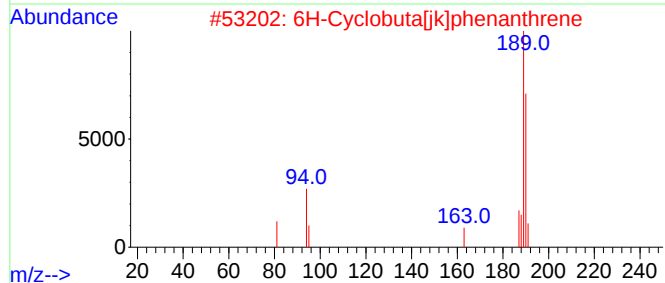
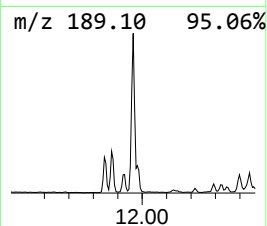
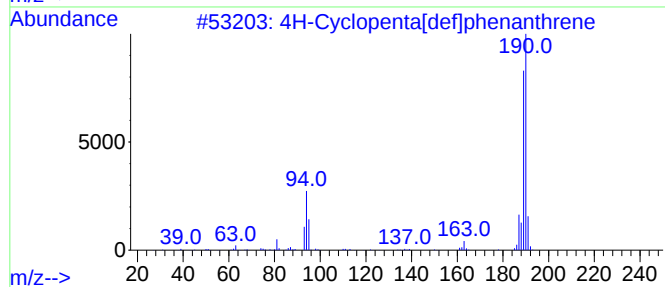
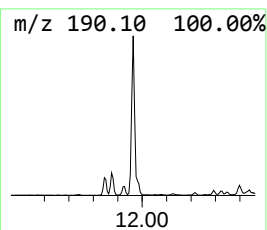
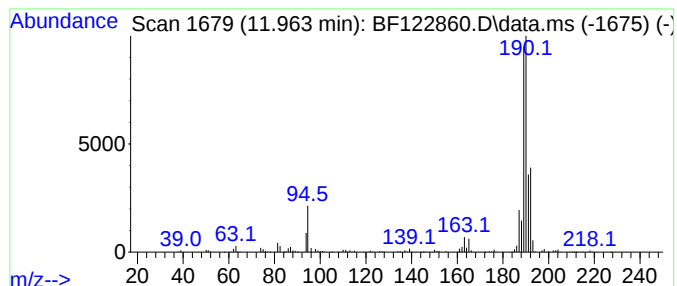
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 11 4H-Cyclopenta[def]phenanthrene Concentration Rank 6

| R.T.      | EstConc                             | Area    | Relative to ISTD |            | R.T.        |      |
|-----------|-------------------------------------|---------|------------------|------------|-------------|------|
| 11.963    | 35.80 ng                            | 1489320 | Phenanthrene-d10 |            | 11.345      |      |
| Hit# of 5 | Tentative ID                        |         | MW               | MolForm    | CAS#        | Qual |
| 1         | 4H-Cyclopenta[def]phenanthrene      |         | 190              | C15H10     | 000203-64-5 | 94   |
| 2         | 6H-Cyclobuta[jk]phenanthrene        |         | 190              | C15H10     | 083469-43-6 | 59   |
| 3         | Thiophene-3-carboxaldehyde, 5-ch... |         | 190              | C5H4BClO3S | 036155-87-0 | 52   |
| 4         | 2,3,5,6-Tetramethylterephthalald... |         | 190              | C12H14O2   | 007072-01-7 | 47   |
| 5         | 2,2'-Bis(4,5-dimethylimidazole)     |         | 190              | C10H14N4   | 069286-06-2 | 42   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF122420\  
Data File : BF122860.D  
Acq On : 24 Dec 2020 17:42  
Operator : JU/CG  
Sample : L5199-01 5X  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OR-03-122320

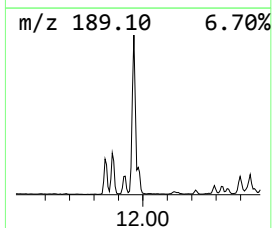
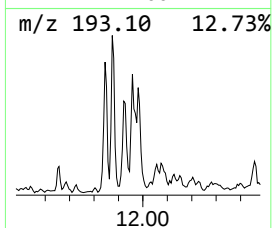
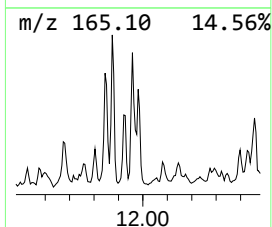
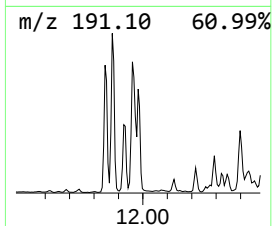
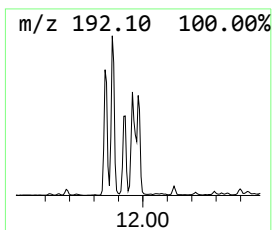
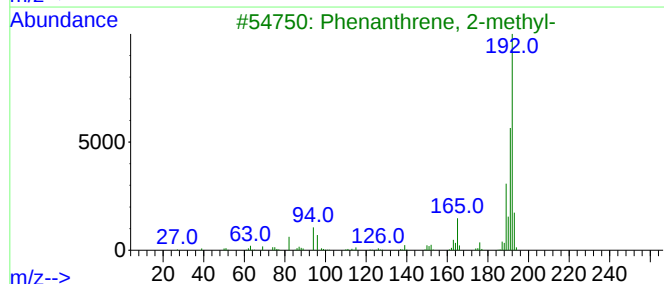
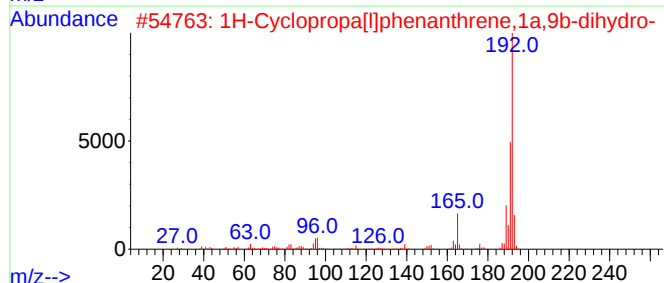
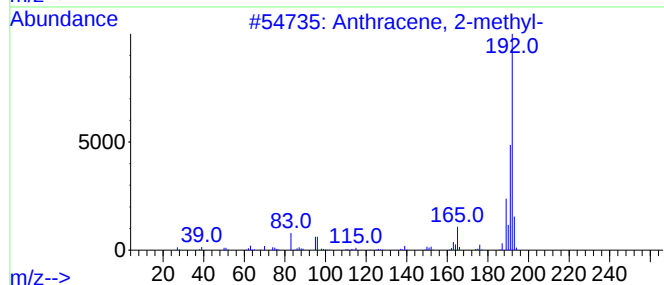
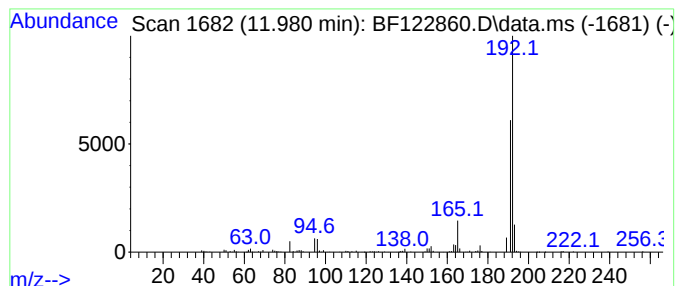
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 12 1H-Cyclopropa[l]phenanthren... Concentration Rank 18

| R.T.      | EstConc                             | Area   | Relative to ISTD |         | R.T.        |      |
|-----------|-------------------------------------|--------|------------------|---------|-------------|------|
| 11.980    | 9.69 ng                             | 403014 | Phenanthrene-d10 |         | 11.345      |      |
| Hit# of 5 | Tentative ID                        |        | MW               | MolForm | CAS#        | Qual |
| 1         | Anthracene, 2-methyl-               |        | 192              | C15H12  | 000613-12-7 | 90   |
| 2         | 1H-Cyclopropa[1]phenanthrene,1a,... |        | 192              | C15H12  | 000949-41-7 | 90   |
| 3         | Phenanthrene, 2-methyl-             |        | 192              | C15H12  | 002531-84-2 | 90   |
| 4         | Anthracene, 1-methyl-               |        | 192              | C15H12  | 000610-48-0 | 87   |
| 5         | Anthracene, 9-methyl-               |        | 192              | C15H12  | 000779-02-2 | 87   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF122420\  
Data File : BF122860.D  
Acq On : 24 Dec 2020 17:42  
Operator : JU/CG  
Sample : L5199-01 5X  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OR-03-122320

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF120520.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

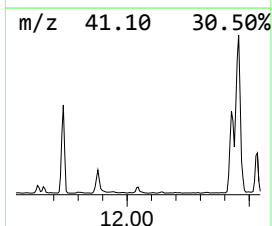
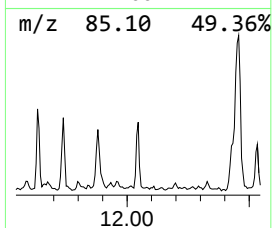
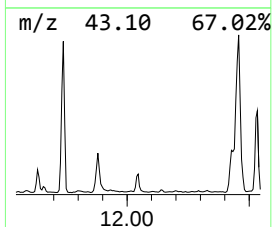
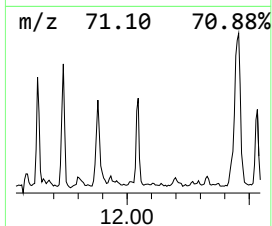
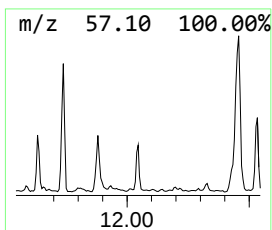
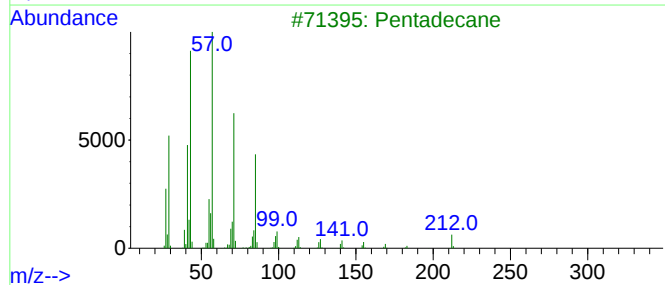
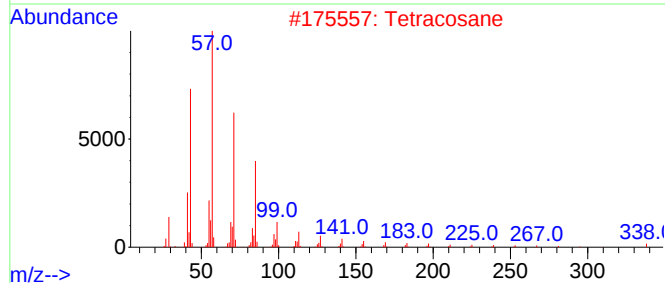
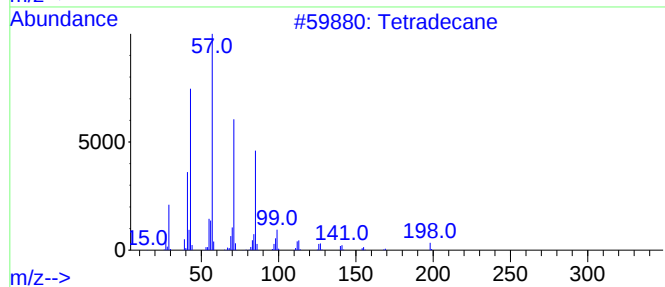
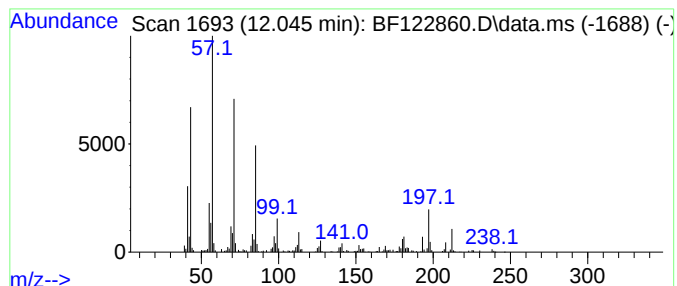
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TIC Integration Parameters: LSCINT.P

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Peak Number 13 Tetracosane Concentration Rank 20

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 12.045 | 8.97 ng | 373053 | Phenanthrene-d10 | 11.345 |

| Hit# | of 5 | Tentative ID | MW  | MolForm | CAS#        | Qual |
|------|------|--------------|-----|---------|-------------|------|
| 1    |      | Tetradecane  | 198 | C14H30  | 000629-59-4 | 92   |
| 2    |      | Tetracosane  | 338 | C24H50  | 000646-31-1 | 76   |
| 3    |      | Pentadecane  | 212 | C15H32  | 000629-62-9 | 74   |
| 4    |      | Hexadecane   | 226 | C16H34  | 000544-76-3 | 70   |
| 5    |      | Hexacosane   | 366 | C26H54  | 000630-01-3 | 68   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF122420\  
Data File : BF122860.D  
Acq On : 24 Dec 2020 17:42  
Operator : JU/CG  
Sample : L5199-01 5X  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OR-03-122320

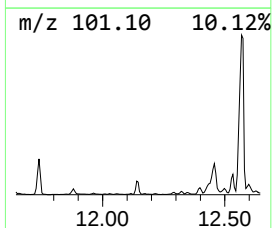
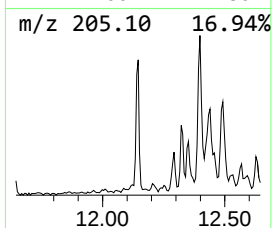
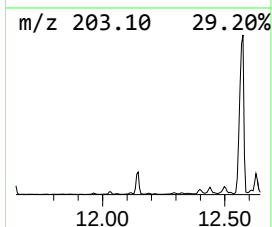
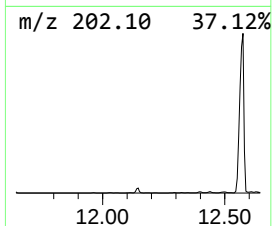
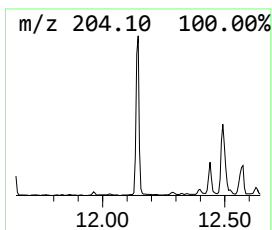
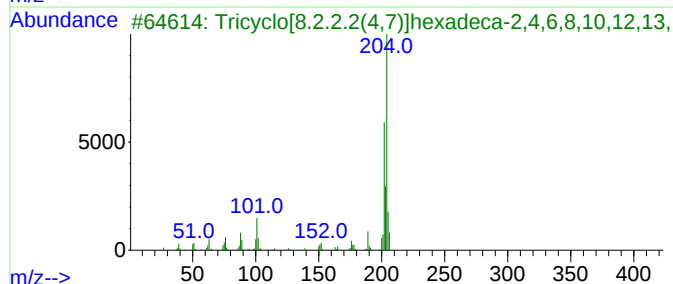
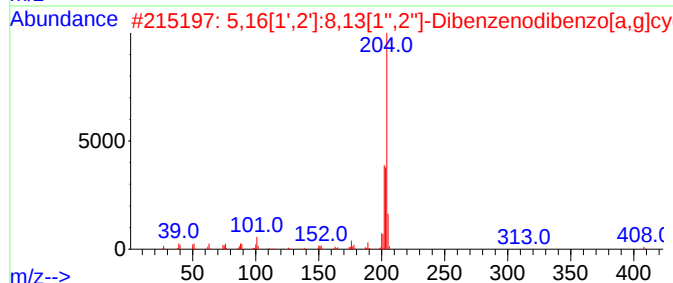
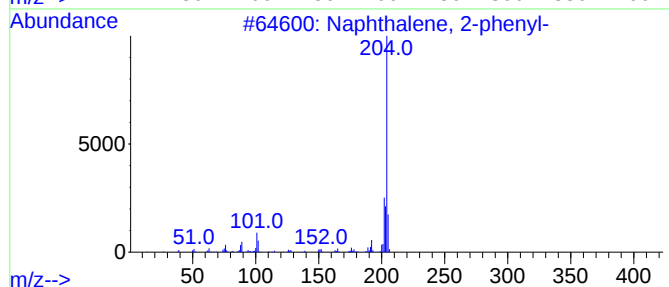
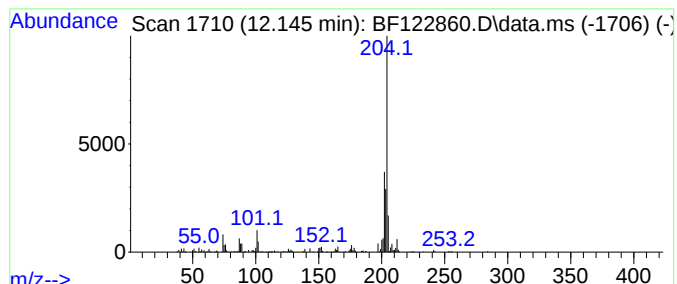
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 14 Naphthalene, 2-phenyl- Concentration Rank 11

| R.T.   | EstConc  | Area   | Relative to ISTD | R.T.   |
|--------|----------|--------|------------------|--------|
| 12.145 | 12.07 ng | 502087 | Phenanthrene-d10 | 11.345 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm   | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|-----------|-------------|------|
| 1    |    |   | Naphthalene, 2-phenyl-              | 204 | C16H12    | 000612-94-2 | 86   |
| 2    |    |   | 5,16[1',2']:8,13[1'',2'']-Dibenz... | 408 | C32H24    | 005672-97-9 | 86   |
| 3    |    |   | Tricyclo[8.2.2.2(4,7)]hexadeca-2... | 204 | C16H12    | 006572-60-7 | 81   |
| 4    |    |   | 9,10-Bis(bromomethyl)anthracene     | 362 | C16H12Br2 | 034373-96-1 | 52   |
| 5    |    |   | 1,4-Ethenoanthracene, 1,4-dihydro-  | 204 | C16H12    | 027765-96-4 | 50   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF122420\  
Data File : BF122860.D  
Acq On : 24 Dec 2020 17:42  
Operator : JU/CG  
Sample : L5199-01 5X  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OR-03-122320

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF120520.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

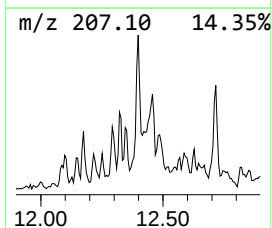
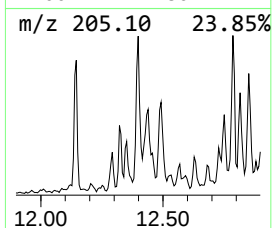
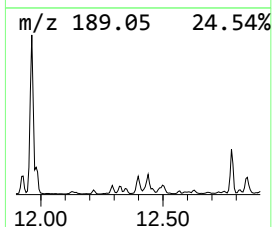
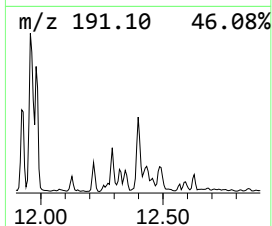
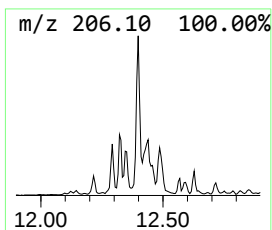
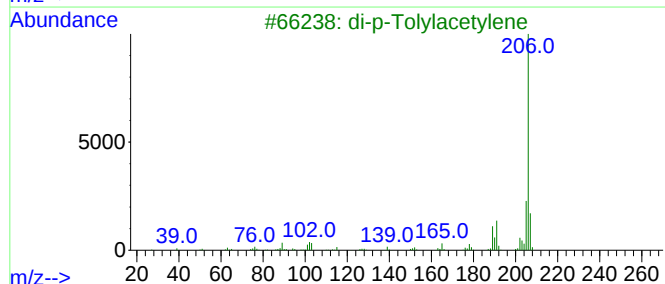
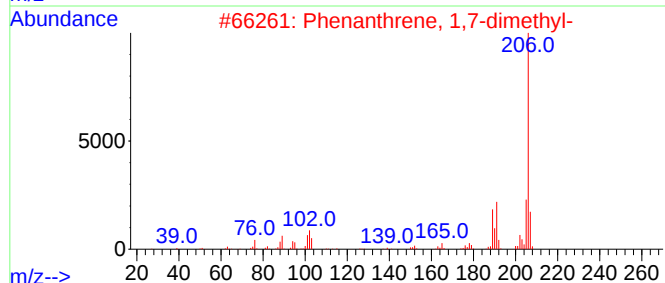
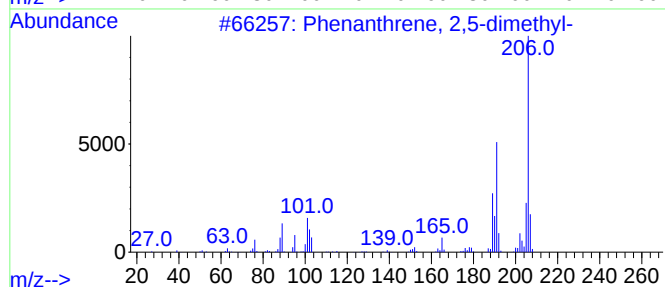
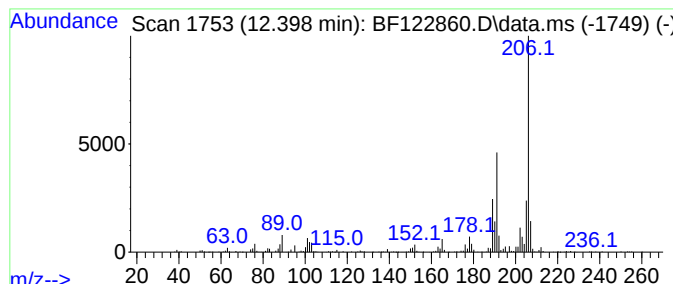
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 15 Phenanthrene, 2,5-dimethyl- Concentration Rank 9

| R.T.   | EstConc  | Area   | Relative to ISTD | R.T.   |
|--------|----------|--------|------------------|--------|
| 12.398 | 13.21 ng | 549508 | Phenanthrene-d10 | 11.345 |

| Hit# | of | 5 | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|---|-----------------------------|-----|---------|-------------|------|
| 1    |    |   | Phenanthrene, 2,5-dimethyl- | 206 | C16H14  | 003674-66-6 | 97   |
| 2    |    |   | Phenanthrene, 1,7-dimethyl- | 206 | C16H14  | 000483-87-4 | 92   |
| 3    |    |   | di-p-Tolylacetylene         | 206 | C16H14  | 002789-88-0 | 91   |
| 4    |    |   | Phenanthrene, 3,6-dimethyl- | 206 | C16H14  | 001576-67-6 | 90   |
| 5    |    |   | 9,10-Dimethylanthracene     | 206 | C16H14  | 000781-43-1 | 90   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF122420\  
Data File : BF122860.D  
Acq On : 24 Dec 2020 17:42  
Operator : JU/CG  
Sample : L5199-01 5X  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OR-03-122320

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF120520.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

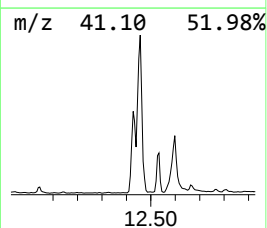
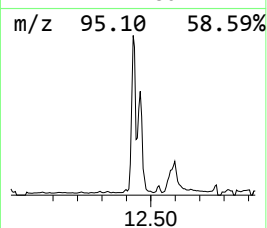
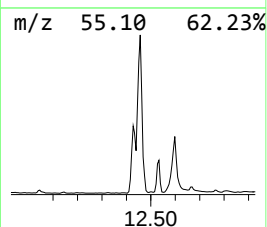
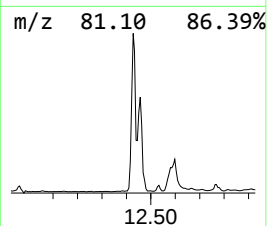
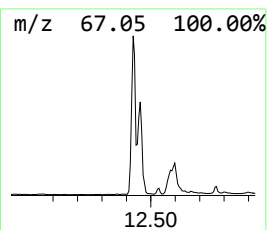
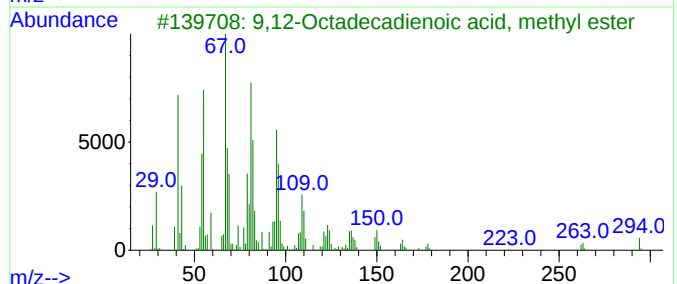
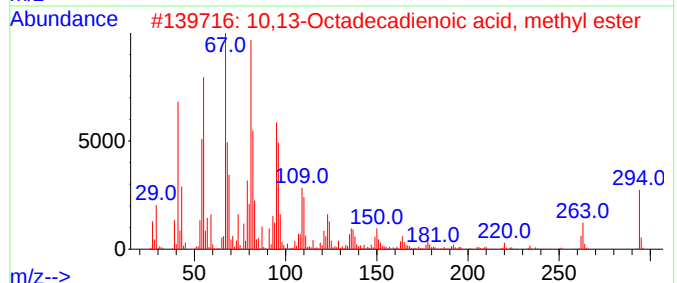
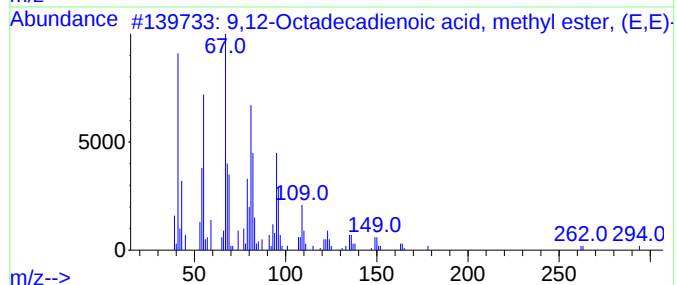
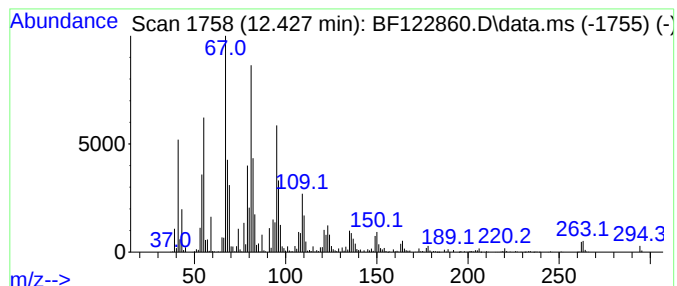
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 16 9,12-Octadecadienoic acid, ... Concentration Rank 2

| R.T.   | EstConc   | Area    | Relative to ISTD | R.T.   |
|--------|-----------|---------|------------------|--------|
| 12.428 | 112.97 ng | 4699410 | Phenanthrene-d10 | 11.345 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|----------|--------------|------|
| 1    |    |   | 9,12-Octadecadienoic acid, methy... | 294 | C19H34O2 | 002566-97-4  | 99   |
| 2    |    |   | 10,13-Octadecadienoic acid, meth... | 294 | C19H34O2 | 056554-62-2  | 99   |
| 3    |    |   | 9,12-Octadecadienoic acid, methy... | 294 | C19H34O2 | 002462-85-3  | 99   |
| 4    |    |   | 9,15-Octadecadienoic acid, methy... | 294 | C19H34O2 | 017309-05-6  | 99   |
| 5    |    |   | Methyl 10-trans,12-cis-octadecad... | 294 | C19H34O2 | 1000336-44-2 | 98   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF122420\  
Data File : BF122860.D  
Acq On : 24 Dec 2020 17:42  
Operator : JU/CG  
Sample : L5199-01 5X  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OR-03-122320

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF120520.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

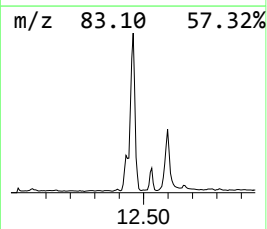
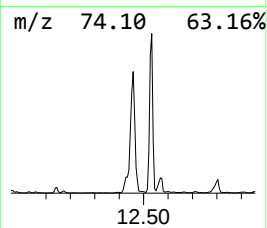
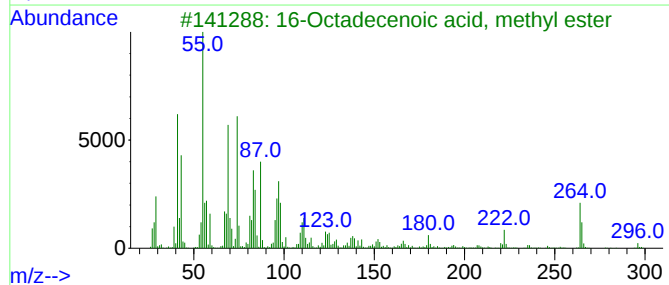
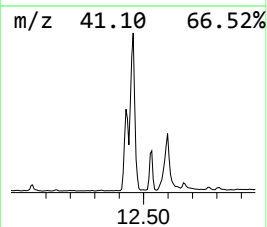
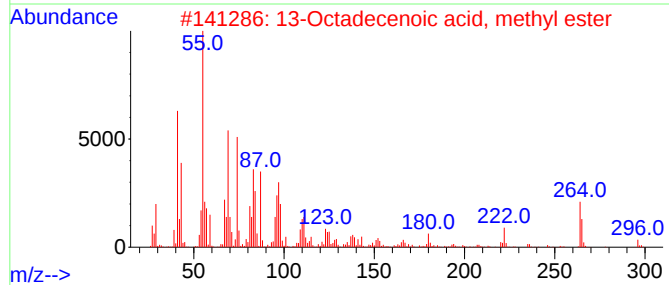
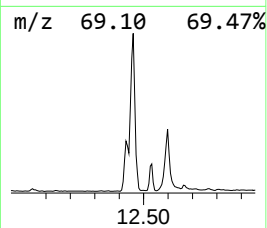
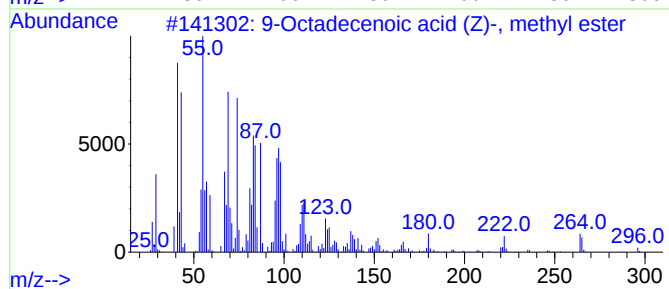
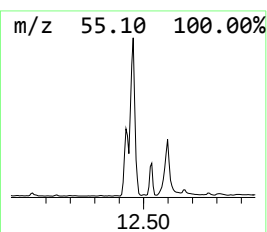
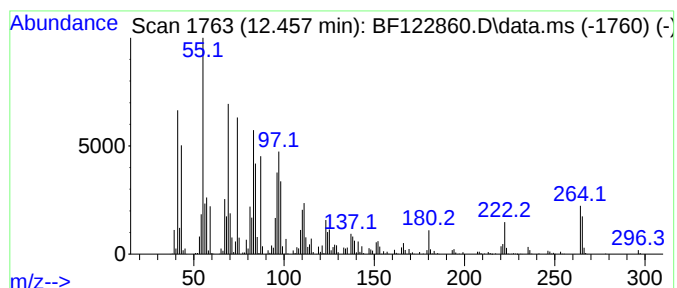
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Peak Number 17 9-Octadecenoic acid (Z)-, m... Concentration Rank 1

| R.T.   | EstConc   | Area    | Relative to ISTD | R.T.   |
|--------|-----------|---------|------------------|--------|
| 12.457 | 203.85 ng | 8479420 | Phenanthrene-d10 | 11.345 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|----------|-------------|------|
| 1    |    |   | 9-Octadecenoic acid (Z)-, methyl... | 296 | C19H36O2 | 000112-62-9 | 99   |
| 2    |    |   | 13-Octadecenoic acid, methyl ester  | 296 | C19H36O2 | 056554-47-3 | 99   |
| 3    |    |   | 16-Octadecenoic acid, methyl ester  | 296 | C19H36O2 | 056554-49-5 | 99   |
| 4    |    |   | 15-Octadecenoic acid, methyl ester  | 296 | C19H36O2 | 004764-72-1 | 99   |
| 5    |    |   | 12-Octadecenoic acid, methyl ester  | 296 | C19H36O2 | 056554-46-2 | 99   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF122420\  
Data File : BF122860.D  
Acq On : 24 Dec 2020 17:42  
Operator : JU/CG  
Sample : L5199-01 5X  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OR-03-122320

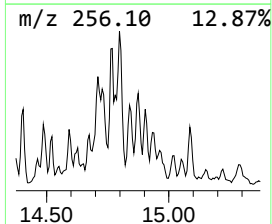
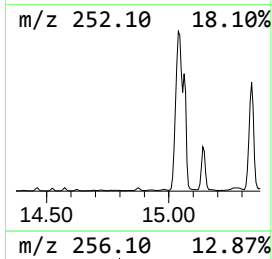
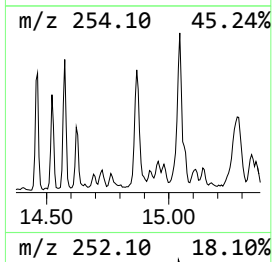
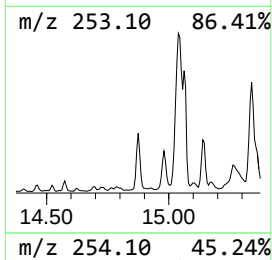
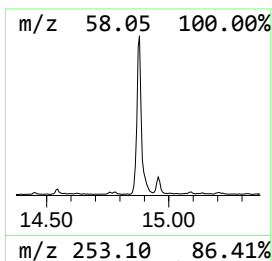
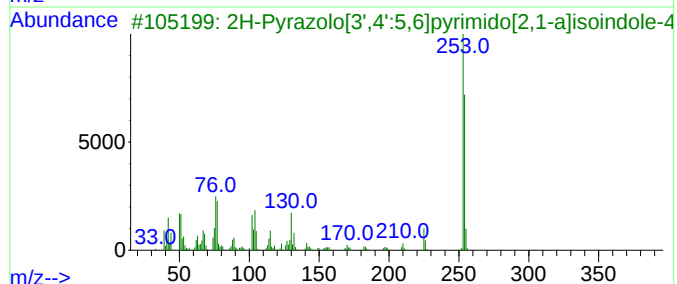
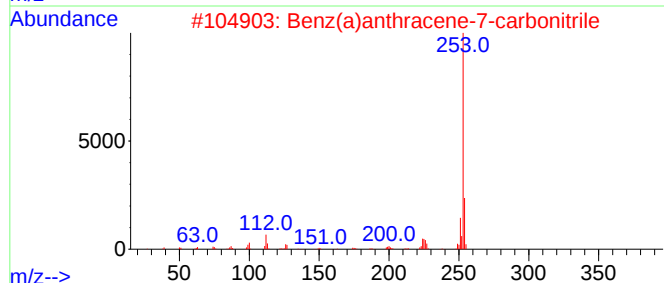
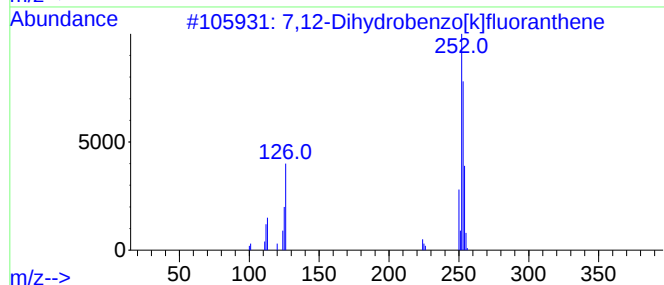
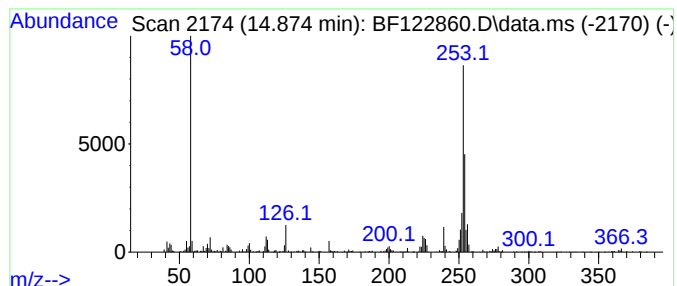
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 18 7,12-Dihydrobenzo[k]fluoran... Concentration Rank 12

| R.T.      | EstConc                             | Area   | Relative to ISTD | R.T.         |      |
|-----------|-------------------------------------|--------|------------------|--------------|------|
| 14.874    | 11.41 ng                            | 597863 | Perylene-d12     | 15.463       |      |
| Hit# of 5 | Tentative ID                        | MW     | MolForm          | CAS#         | Qual |
| 1         | 7,12-Dihydrobenzo[k]fluoranthene    | 254    | C20H14           | 1000080-17-7 | 72   |
| 2         | Benz(a)anthracene-7-carbonitrile    | 253    | C19H11N          | 007476-08-6  | 42   |
| 3         | 2H-Pyrazolo[3',4':5,6]pyrimido[2... | 254    | C13H10N4O2       | 1000318-77-9 | 38   |
| 4         | 4,5-Dihydrobenzo[e]pyrene           | 254    | C20H14           | 095676-42-9  | 35   |
| 5         | 1,1'-Binaphthalene                  | 254    | C20H14           | 000604-53-5  | 22   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF122420\  
Data File : BF122860.D  
Acq On : 24 Dec 2020 17:42  
Operator : JU/CG  
Sample : L5199-01 5X  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OR-03-122320

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF120520.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

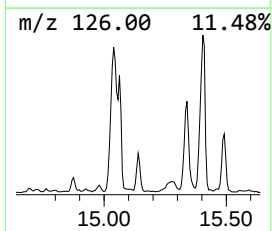
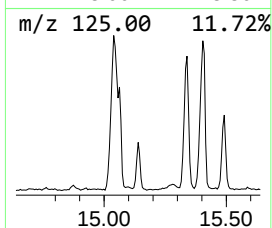
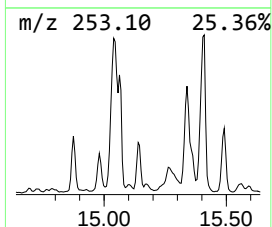
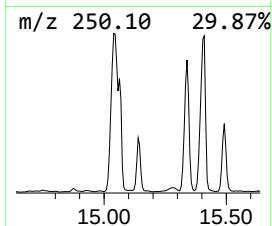
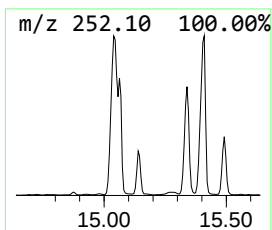
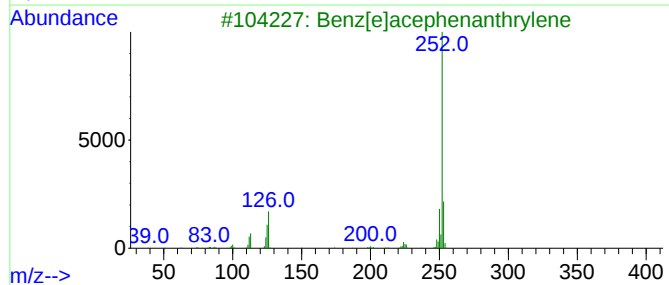
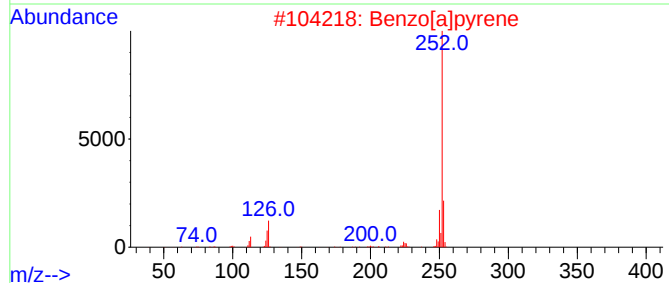
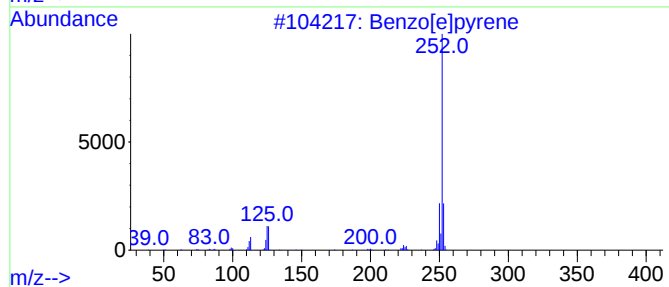
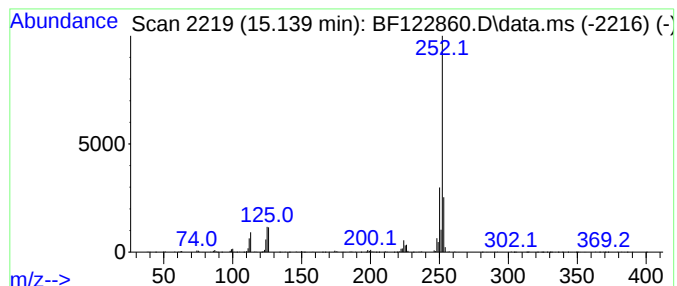
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 19 Benzo[e]pyrene Concentration Rank 13

| R.T.   | EstConc  | Area   | Relative to ISTD | R.T.   |
|--------|----------|--------|------------------|--------|
| 15.139 | 11.17 ng | 585380 | Perylene-d12     | 15.463 |

| Hit# | of | 5 | Tentative ID             | MW  | MolForm | CAS#        | Qual |
|------|----|---|--------------------------|-----|---------|-------------|------|
| 1    |    |   | Benzo[e]pyrene           | 252 | C20H12  | 000192-97-2 | 98   |
| 2    |    |   | Benzo[a]pyrene           | 252 | C20H12  | 000050-32-8 | 96   |
| 3    |    |   | Benz[e]acephenanthrylene | 252 | C20H12  | 000205-99-2 | 93   |
| 4    |    |   | Benzo[k]fluoranthene     | 252 | C20H12  | 000207-08-9 | 90   |
| 5    |    |   | Perylene                 | 252 | C20H12  | 000198-55-0 | 89   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF122420\  
 Data File : BF122860.D  
 Acq On : 24 Dec 2020 17:42  
 Operator : JU/CG  
 Sample : L5199-01 5X  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 OR-03-122320

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF120520.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 |
| Tetradecane        | 9.257  | 10.1    | ng    | 390682   | 3                     | 9.857  | 775144  | 20.0 |
| Naphthalene, 2,... | 9.516  | 9.8     | ng    | 381940   | 3                     | 9.857  | 775144  | 20.0 |
| Hexadecane         | 10.286 | 9.1     | ng    | 353207   | 3                     | 9.857  | 775144  | 20.0 |
| Tridecane          | 10.763 | 12.9    | ng    | 535449   | 4                     | 11.345 | 831935  | 20.0 |
| Heneicosane        | 11.210 | 10.8    | ng    | 448251   | 4                     | 11.345 | 831935  | 20.0 |
| Hexadecanoic ac... | 11.739 | 80.7    | ng    | 3356590  | 4                     | 11.345 | 831935  | 20.0 |
| Anthracene, 2-m... | 11.845 | 17.3    | ng    | 720748   | 4                     | 11.345 | 831935  | 20.0 |
| Phenanthrene, 2... | 11.881 | 38.8    | ng    | 1614870  | 4                     | 11.345 | 831935  | 20.0 |
| Phenanthrene, 3... | 11.922 | 11.1    | ng    | 462499   | 4                     | 11.345 | 831935  | 20.0 |
| 4H-Cyclopenta[d... | 11.963 | 35.8    | ng    | 1489320  | 4                     | 11.345 | 831935  | 20.0 |
| 1H-Cyclopropa[1... | 11.980 | 9.7     | ng    | 403014   | 4                     | 11.345 | 831935  | 20.0 |
| Tetracosane        | 12.045 | 9.0     | ng    | 373053   | 4                     | 11.345 | 831935  | 20.0 |
| Naphthalene, 2-... | 12.145 | 12.1    | ng    | 502087   | 4                     | 11.345 | 831935  | 20.0 |
| Phenanthrene, 2... | 12.398 | 13.2    | ng    | 549508   | 4                     | 11.345 | 831935  | 20.0 |
| 9,12-Octadecadi... | 12.428 | 113.0   | ng    | 4699410  | 4                     | 11.345 | 831935  | 20.0 |
| 9-Octadecenoic ... | 12.457 | 203.8   | ng    | 8479420  | 4                     | 11.345 | 831935  | 20.0 |
| 7,12-Dihydroben... | 14.874 | 11.4    | ng    | 597863   | 6                     | 15.463 | 1048090 | 20.0 |
| Benzo[e]pyrene     | 15.139 | 11.2    | ng    | 585380   | 6                     | 15.463 | 1048090 | 20.0 |