LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF081617\
Data File : BF097755.D
Acq On : 16 Aug 2017 22:54
Operator : SJ/JU
Sample : I4739-05 5X
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S11-WC-5

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:\HPCHEM1\BNA_F\METHODS\8270-BF081517.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 4.963 | 486 | 489 | 494 | rBV | 70918 | 71243 | 4.22% | 0.256% |
| 2 | 5.375 | 555 | 559 | 563 | rBV | 1035032 | 895860 | 53.11% | 3.224% |
| 3 | 6.398 | 729 | 733 | 741 | rVB | 1189811 | 981967 | 58.22% | 3.534% |
| 4 | 6.539 | 753 | 757 | 761 | rBV | 1068068 | 955607 | 56.65% | 3.439% |
| 5 | 6.781 | 794 | 798 | 801 | rBV | 1304649 | 1072963 | 63.61% | 3.862% |
| 6 | 6.934 | 820 | 824 | 828 | rBV | 876031 | 694137 | 41.15% | 2.498% |
| 7 | 7.339 | 888 | 893 | 896 | rBV | 653348 | 571820 | 33.90% | 2.058% |
| 8 | 8.063 | 1011 | 1016 | 1019 | rBV | 1753390 | 1426326 | 84.56% | 5.134% |
| 9 | 8.775 | 1134 | 1137 | 1140 | rVB | 37773 | 26319 | 1.56% | 0.095% |
| 10 | 8.875 | 1150 | 1154 | 1157 | rVB | 48493 | 40392 | 2.39% | 0.145% |
| 11 | 9.139 | 1194 | 1199 | 1202 | rBV | 1093108 | 928566 | 55.05% | 3.342% |
| 12 | 9.475 | 1251 | 1256 | 1258 | rBV | 56016 | 51394 | 3.05% | 0.185% |
| 13 | 9.533 | 1263 | 1266 | 1270 | rVB | 126572 | 100603 | 5.96% | 0.362% |
| 14 | 9.675 | 1286 | 1290 | 1293 | rBV | 75910 | 61683 | 3.66% | 0.222% |
| 15 | 9.816 | 1307 | 1314 | 1317 | rBV2 | 1648847 | 1419763 | 84.17% | 5.110% |
| 16 | 9.845 | 1317 | 1319 | 1323 | rVB | 201389 | 156373 | 9.27% | 0.563% |
| 17 | 10.016 | 1345 | 1348 | 1352 | rVB | 102801 | 86238 | 5.11% | 0.310% |
| 18 | 10.133 | 1362 | 1368 | 1370 | rBV3 | 28796 | 32449 | 1.92% | 0.117% |
| 19 | 10.222 | 1378 | 1383 | 1385 | rBV2 | 25143 | 29616 | 1.76% | 0.107% |
| 20 | 10.357 | 1403 | 1406 | 1413 | rVB | 131961 | 134044 | 7.95% | 0.482% |
| 21 | 10.427 | 1413 | 1418 | 1420 | rBV | 35636 | 44694 | 2.65% | 0.161% |
| 22 | 10.522 | 1431 | 1434 | 1438 | rVB | 54661 | 57385 | 3.40% | 0.207% |
| 23 | 10.598 | 1443 | 1447 | 1451 | rVV | 658503 | 550708 | 32.65% | 1.982% |
| 24 | 10.727 | 1464 | 1469 | 1473 | rBV | 64769 | 64674 | 3.83% | 0.233% |
| 25 | 10.910 | 1493 | 1500 | 1503 | rBV4 | 44801 | 83171 | 4.93% | 0.299% |
| 26 | 10.933 | 1503 | 1504 | 1507 | rVV3 | 33229 | 27422 | 1.63% | 0.099% |
| 27 | 11.039 | 1517 | 1522 | 1523 | rVV2 | 53710 | 59578 | 3.53% | 0.214% |
| 28 | 11.057 | 1523 | 1525 | 1528 | rVV2 | 52000 | 59093 | 3.50% | 0.213% |
| 29 | 11.104 | 1530 | 1533 | 1537 | rVV | 83382 | 86094 | 5.10% | 0.310% |
| 30 | 11.157 | 1537 | 1542 | 1544 | rVV3 | 48205 | 76465 | 4.53% | 0.275% |
| 31 | 11.192 | 1546 | 1548 | 1554 | rVB | 91472 | 96113 | 5.70% | 0.346% |
| 32 | 11.298 | 1562 | 1566 | 1568 | rBV | 1303529 | 1226356 | 72.70% | 4.414% |
| 33 | 11.321 | 1568 | 1570 | 1574 | rVV | 1713887 | 1455736 | 86.30% | 5.239% |
| 34 | 11.374 | 1574 | 1579 | 1582 | rVV | 339960 | 310302 | 18.40% | 1.117% |

LSC Area Percent Report

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Acq On : 16 Aug 2017 22:54
Operator : SJ/JU
Sample : I4739-05 5X
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S11-WC-5

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:\HPCHEM1\BNA_F\METHODS\8270-BF081517.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 11.404 | 1582 | 1584 | 1588 | rVV2 | 38834 | 35946 | 2.13% | 0.129% |
| 36 | 11.527 | 1599 | 1605 | 1607 | rBV2 | 119861 | 120696 | 7.16% | 0.434% |
| 37 | 11.598 | 1615 | 1617 | 1620 | rBV2 | 65115 | 55027 | 3.26% | 0.198% |
| 38 | 11.627 | 1620 | 1622 | 1626 | rVB2 | 38237 | 32610 | 1.93% | 0.117% |
| 39 | 11.798 | 1645 | 1651 | 1653 | rBV | 215189 | 191784 | 11.37% | 0.690% |
| 40 | 11.827 | 1653 | 1656 | 1660 | rVB | 294223 | 245300 | 14.54% | 0.883% |
| 41 | 11.874 | 1660 | 1664 | 1666 | rBV | 106835 | 101050 | 5.99% | 0.364% |
| 42 | 11.910 | 1666 | 1670 | 1672 | rVV | 308254 | 312335 | 18.52% | 1.124% |
| 43 | 11.933 | 1672 | 1674 | 1677 | rVB | 153634 | 115227 | 6.83% | 0.415% |
| 44 | 12.098 | 1699 | 1702 | 1703 | rBV | 144537 | 128984 | 7.65% | 0.464% |
| 45 | 12.116 | 1703 | 1705 | 1709 | rVB | 125723 | 97331 | 5.77% | 0.350% |
| 46 | 12.245 | 1724 | 1727 | 1730 | rVB2 | 58612 | 45248 | 2.68% | 0.163% |
| 47 | 12.274 | 1730 | 1732 | 1734 | rBV | 41673 | 32777 | 1.94% | 0.118% |
| 48 | 12.298 | 1734 | 1736 | 1738 | rVB2 | 56182 | 44451 | 2.64% | 0.160% |
| 49 | 12.345 | 1740 | 1744 | 1748 | rBV | 117294 | 141274 | 8.38% | 0.508% |
| 50 | 12.386 | 1748 | 1751 | 1753 | rVV | 63568 | 79489 | 4.71% | 0.286% |
| 51 | 12.427 | 1756 | 1758 | 1764 | rVB3 | 94575 | 115207 | 6.83% | 0.415% |
| 52 | 12.510 | 1768 | 1772 | 1776 | rVB | 1774099 | 1521875 | 90.22% | 5.477% |
| 53 | 12.568 | 1776 | 1782 | 1785 | rBV4 | 37078 | 65597 | 3.89% | 0.236% |
| 54 | 12.604 | 1785 | 1788 | 1790 | rVB | 38989 | 35984 | 2.13% | 0.130% |
| 55 | 12.639 | 1790 | 1794 | 1795 | rBV3 | 43550 | 52228 | 3.10% | 0.188% |
| 56 | 12.657 | 1795 | 1797 | 1801 | rVB | 54231 | 57814 | 3.43% | 0.208% |
| 57 | 12.739 | 1805 | 1811 | 1814 | rBV | 1592519 | 1610441 | 95.48% | 5.796% |
| 58 | 12.786 | 1816 | 1819 | 1824 | rVB2 | 73852 | 103496 | 6.14% | 0.372% |
| 59 | 12.857 | 1827 | 1831 | 1832 | rBV2 | 83711 | 74133 | 4.39% | 0.267% |
| 60 | 12.880 | 1832 | 1835 | 1842 | rVB | 728589 | 711864 | 42.20% | 2.562% |
| 61 | 12.957 | 1842 | 1848 | 1851 | rBV2 | 103332 | 174838 | 10.37% | 0.629% |
| 62 | 13.021 | 1855 | 1859 | 1860 | rBV3 | 31788 | 38821 | 2.30% | 0.140% |
| 63 | 13.039 | 1860 | 1862 | 1863 | rVV | 71440 | 61360 | 3.64% | 0.221% |
| 64 | 13.063 | 1864 | 1866 | 1869 | rVB | 159358 | 135275 | 8.02% | 0.487% |
| 65 | 13.098 | 1869 | 1872 | 1874 | rBV2 | 27081 | 33484 | 1.99% | 0.121% |
| 66 | 13.127 | 1874 | 1877 | 1880 | rVB2 | 84937 | 79961 | 4.74% | 0.288% |
| 67 | 13.168 | 1880 | 1884 | 1887 | rBV2 | 161911 | 165418 | 9.81% | 0.595% |
| 68 | 13.257 | 1897 | 1899 | 1902 | rVB | 97366 | 84398 | 5.00% | 0.304% |
| 69 | 13.286 | 1902 | 1904 | 1909 | rBV | 95061 | 109335 | 6.48% | 0.394% |
| 70 | 13.380 | 1914 | 1920 | 1927 | rVB8 | 34925 | 82145 | 4.87% | 0.296% |
| 71 | 13.468 | 1927 | 1935 | 1937 | rBV7 | 50869 | 105639 | 6.26% | 0.380% |

LSC Area Percent Report

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Operator : SJ/JU
Sample : I4739-05 5X
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S11-WC-5

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:\HPCHEM1\BNA_F\METHODS\8270-BF081517.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 13.568 | 1949 | 1952 | 1957 | rVB | 103499 | 113998 | 6.76% | 0.410% |
| 73 | 13.680 | 1966 | 1971 | 1974 | rBV2 | 106046 | 164861 | 9.77% | 0.593% |
| 74 | 13.710 | 1974 | 1976 | 1978 | rBV | 96056 | 72689 | 4.31% | 0.262% |
| 75 | 13.733 | 1978 | 1980 | 1984 | rVB2 | 64683 | 73033 | 4.33% | 0.263% |
| 76 | 13.774 | 1984 | 1987 | 1995 | rVB2 | 125077 | 177747 | 10.54% | 0.640% |
| 77 | 13.933 | 2006 | 2014 | 2016 | rBV2 | 1237195 | 1686760 | 100.00% | 6.071% |
| 78 | 13.957 | 2016 | 2018 | 2021 | rVB | 565265 | 449656 | 26.66% | 1.618% |
| 79 | 14.039 | 2029 | 2032 | 2035 | rVB | 71454 | 62524 | 3.71% | 0.225% |
| 80 | 14.115 | 2043 | 2045 | 2048 | rVB2 | 55959 | 49942 | 2.96% | 0.180% |
| 81 | 14.151 | 2048 | 2051 | 2055 | rVV2 | 44845 | 63780 | 3.78% | 0.230% |
| 82 | 14.251 | 2065 | 2068 | 2071 | rBV4 | 32928 | 35029 | 2.08% | 0.126% |
| 83 | 14.280 | 2071 | 2073 | 2075 | rBV | 43189 | 40480 | 2.40% | 0.146% |
| 84 | 14.315 | 2076 | 2079 | 2083 | rVV | 122874 | 131117 | 7.77% | 0.472% |
| 85 | 14.351 | 2083 | 2085 | 2088 | rVB | 75253 | 62124 | 3.68% | 0.224% |
| 86 | 14.410 | 2093 | 2095 | 2098 | rVV3 | 67328 | 74490 | 4.42% | 0.268% |
| 87 | 14.439 | 2098 | 2100 | 2102 | rVV | 59464 | 60892 | 3.61% | 0.219% |
| 88 | 14.462 | 2102 | 2104 | 2108 | rVB3 | 38158 | 44953 | 2.67% | 0.162% |
| 89 | 14.615 | 2127 | 2130 | 2133 | rBV2 | 35685 | 42875 | 2.54% | 0.154% |
| 90 | 14.698 | 2141 | 2144 | 2146 | rBV4 | 33306 | 32784 | 1.94% | 0.118% |
| 91 | 14.780 | 2155 | 2158 | 2159 | rBV2 | 30981 | 33087 | 1.96% | 0.119% |
| 92 | 14.951 | 2183 | 2187 | 2190 | rBV | 465691 | 694615 | 41.18% | 2.500% |
| 93 | 15.057 | 2201 | 2205 | 2208 | rVB | 104086 | 115981 | 6.88% | 0.417% |
| 94 | 15.245 | 2232 | 2237 | 2242 | rVB | 294329 | 356808 | 21.15% | 1.284% |
| 95 | 15.304 | 2242 | 2247 | 2253 | rVB | 410329 | 474897 | 28.15% | 1.709% |
| 96 | 15.362 | 2253 | 2257 | 2261 | rBV | 622838 | 823400 | 48.82% | 2.964% |
| 97 | 15.392 | 2261 | 2262 | 2270 | rVB2 | 130927 | 153908 | 9.12% | 0.554% |
| 98 | 16.327 | 2419 | 2421 | 2428 | rVB6 | 26293 | 46481 | 2.76% | 0.167% |
| 99 | 16.756 | 2489 | 2494 | 2502 | rVB2 | 149244 | 287055 | 17.02% | 1.033% |
| 100 | 17.174 | 2560 | 2565 | 2576 | rVB | 110426 | 224442 | 13.31% | 0.808% |

Sum of corrected areas: 27784404

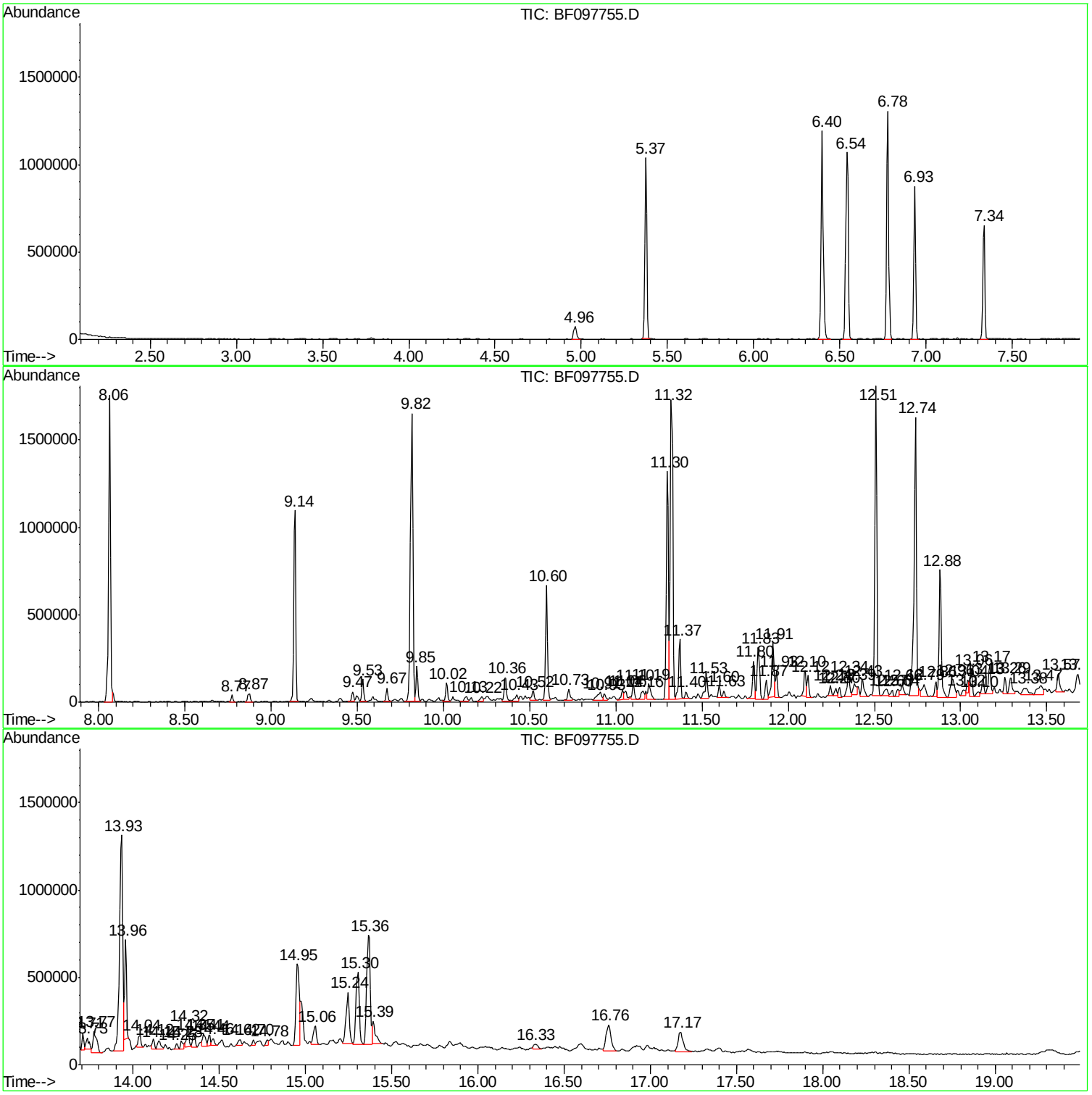
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA F\DATA\BF081617\
Data File : BF097755.D
Acq On : 16 Aug 2017 22:54
Operator : SJ/JU
Sample : I4739-05 5X
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S11-WC-5

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF081517.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF081617\
Data File : BF097755.D
Acq On : 16 Aug 2017 22:54
Operator : SJ/JU
Sample : I4739-05 5X
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S11-WC-5

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF081517.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

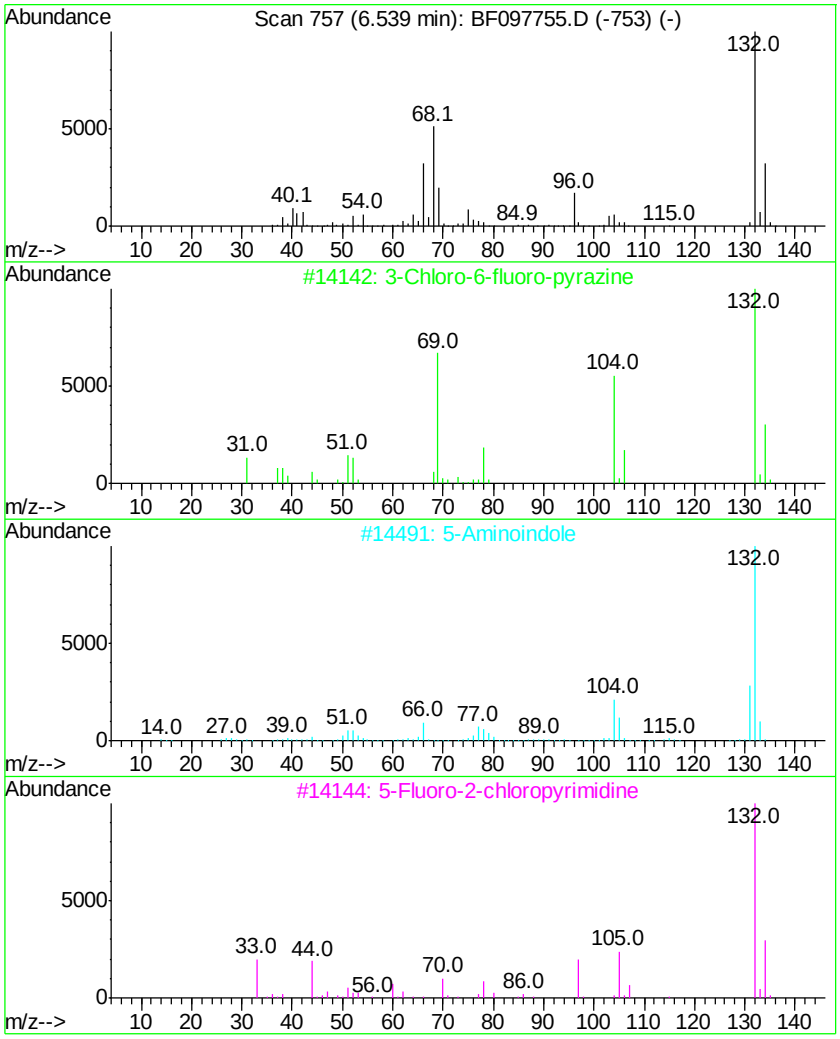
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

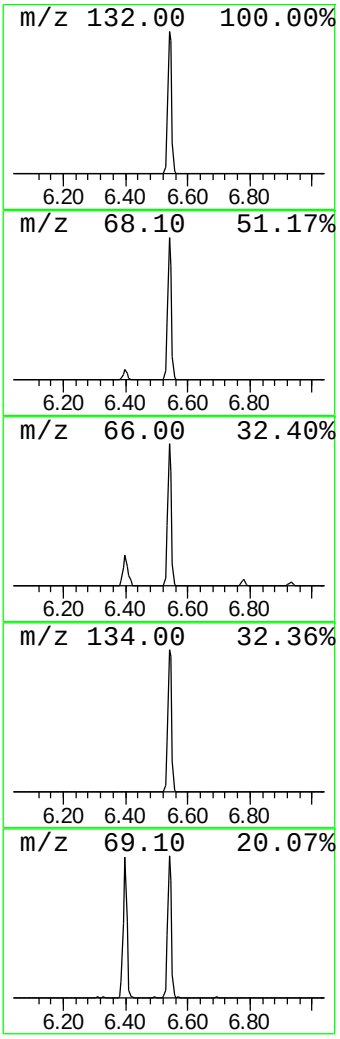
**********

Peak Number 1 unknown6.54 Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.54 | 17.81 ng | 955607 | 1,4-Dichlorobenzene-d4 | 6.78 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Chloro-6-fluoro-pyrazine | 132 | C4H2ClFN2 | 1000146-10-7 | 27 |
| 2 | 5-Aminoindole | 132 | C8H8N2 | 005192-03-0 | 27 |
| 3 | 5-Fluoro-2-chloropyrimidine | 132 | C4H2ClFN2 | 062802-42-0 | 12 |
| 4 | 2-Cyclohexen-1-one | 96 | C6H8O | 000930-68-7 | 10 |
| 5 | Cyclopropanamine, 1-phenyl- | 133 | C9H11N | 1000351-26-2 | 10 |



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Data File : BF097755.D
Acq On : 16 Aug 2017 22:54
Operator : SJ/JU
Sample : I4739-05 5X
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S11-WC-5

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF081517.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

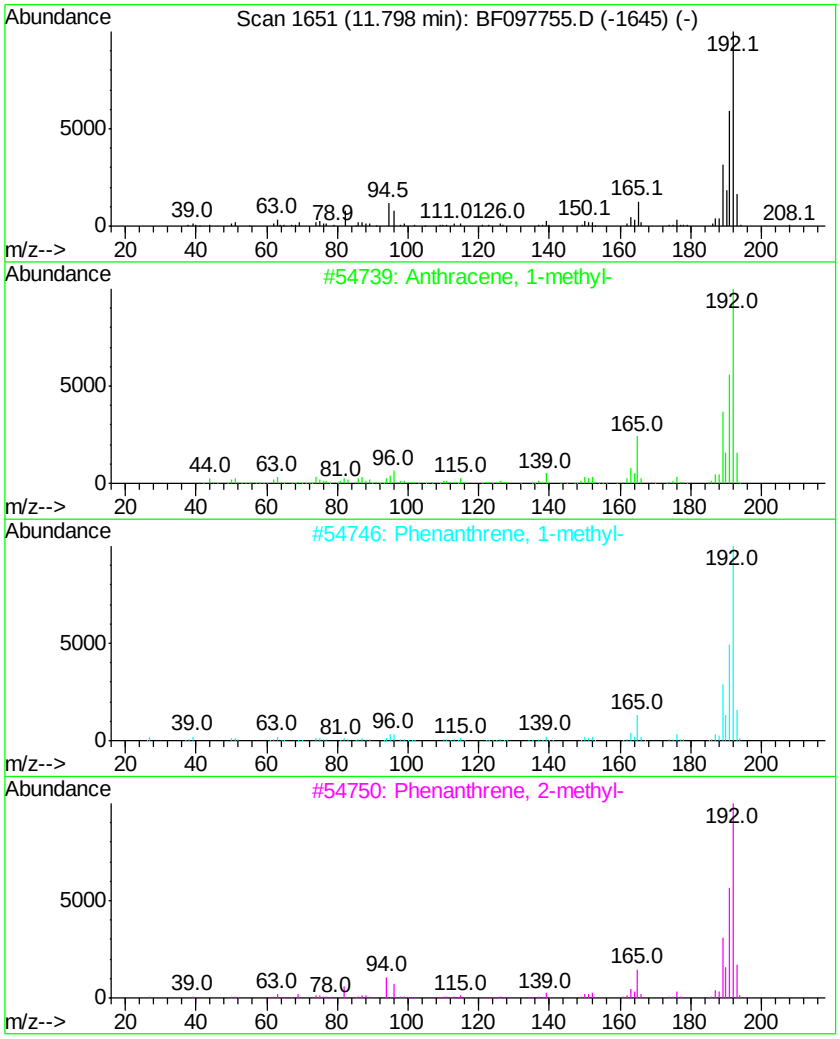
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

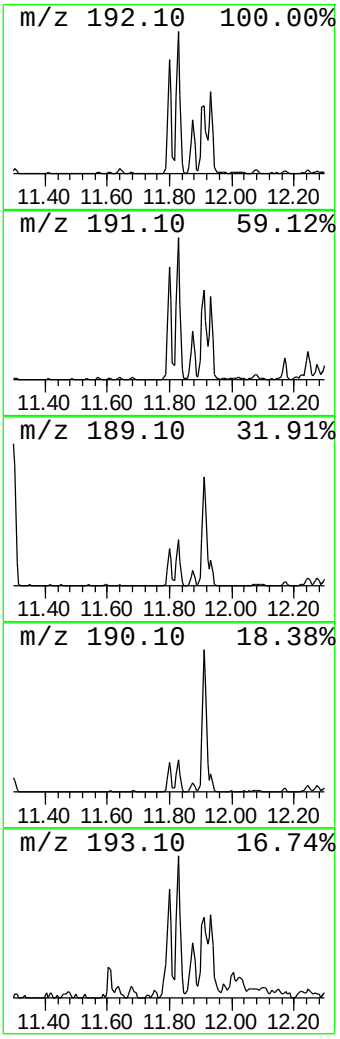
**********

Peak Number 3 Anthracene, 1-methyl- Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.80 | 3.13 ng | 191784 | Phenanthrene-d10 | 11.30 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 94 |
| 2 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 93 |
| 3 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 93 |
| 4 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 90 |
| 5 | Anthracene, 9-methyl- | 192 | C15H12 | 000779-02-2 | 87 |



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Operator : SJ/JU
Sample : I4739-05 5X
Misc :
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**Instrument :** BNA_F
**ClientSampleId :** S11-WC-5

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF081517.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

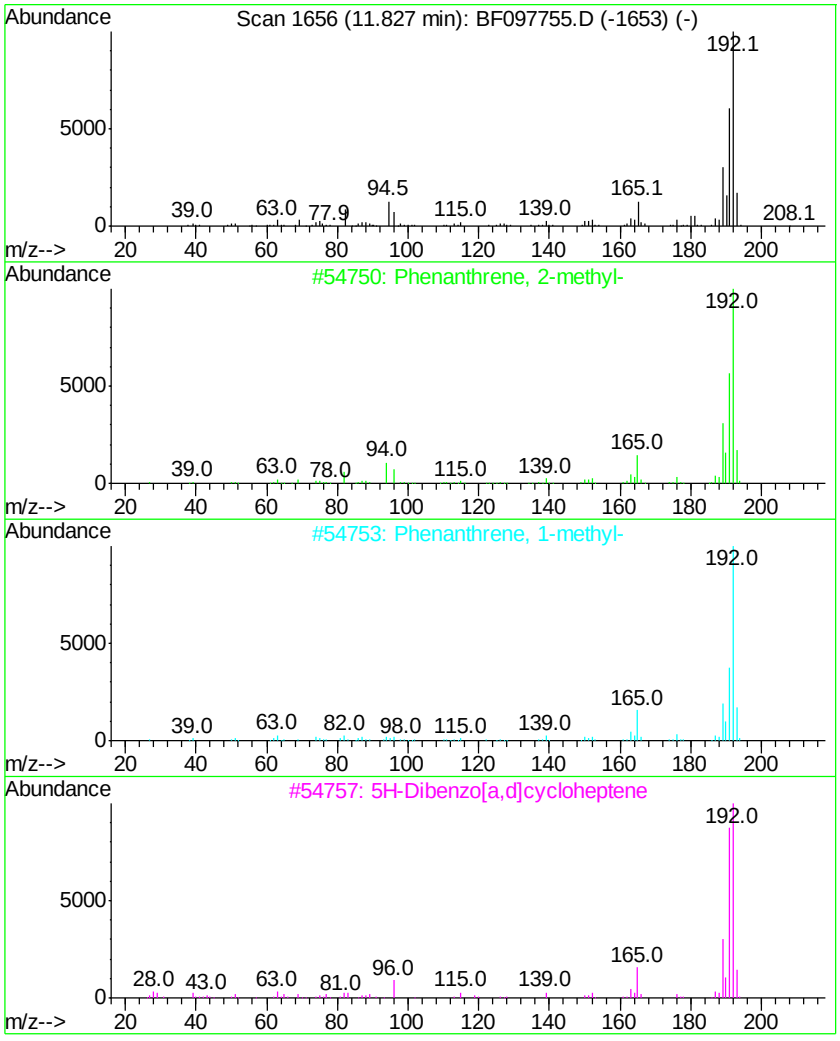
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

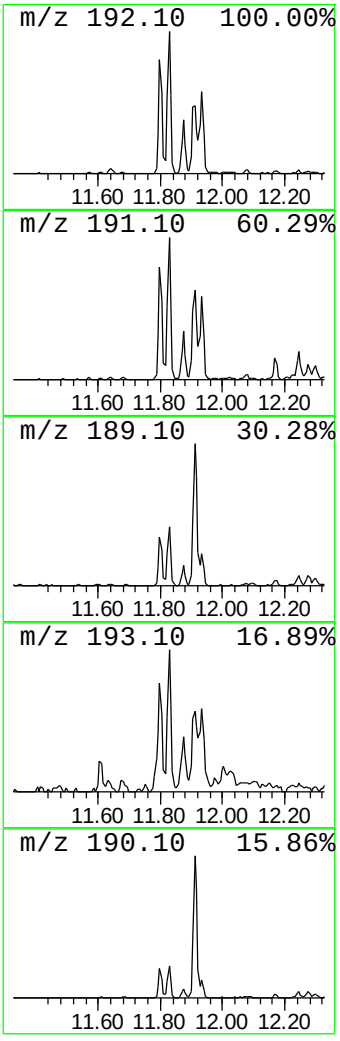
**********

Peak Number 4 Phenanthrene, 2-methyl- Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.83 | 4.00 ng | 245300 | Phenanthrene-d10 | 11.30 |

| 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 | 95 |
| 3 | 5H-Dibenzo[a,d]cycloheptene | 192 | C15H12 | 000256-81-5 | 93 |
| 4 | Phenanthrene, 3-methyl- | 192 | C15H12 | 000832-71-3 | 93 |
| 5 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 93 |



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Data File : BF097755.D
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Operator : SJ/JU
Sample : I4739-05 5X
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**Instrument :** BNA_F
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Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF081517.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

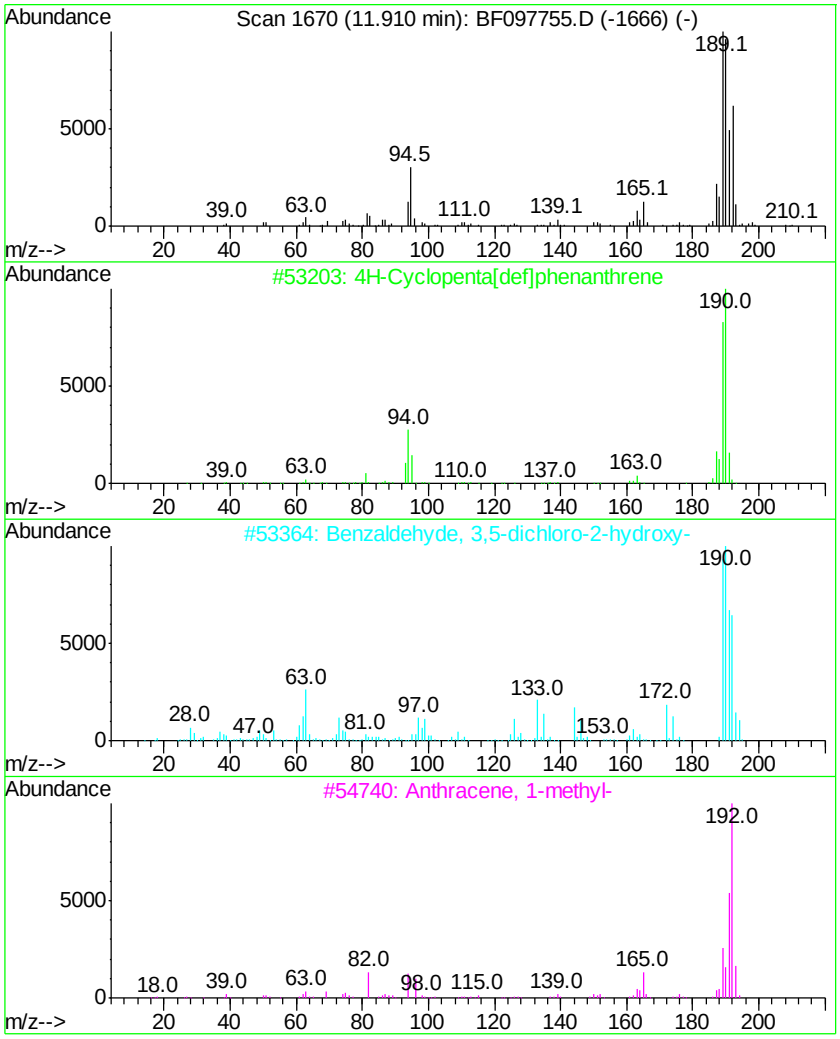
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

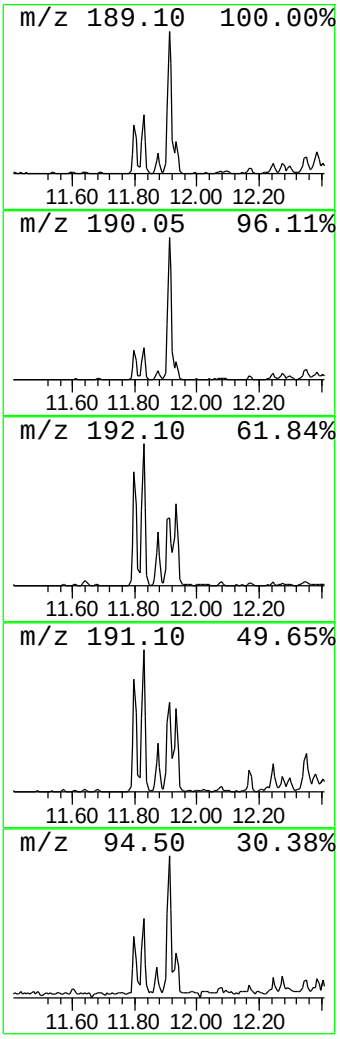
**********

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

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.91 | 5.09 ng | 312335 | Phenanthrene-d10 | 11.30 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 64 |
| 2 | Benzaldehyde, 3,5-dichloro-2-hyd... | 190 | C7H4Cl2O2 | 000090-60-8 | 64 |
| 3 | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 18 |
| 4 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 18 |
| 5 | 1H-Indene, 2-phenyl- | 192 | C15H12 | 004505-48-0 | 18 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF081617\
Data File : BF097755.D
Acq On : 16 Aug 2017 22:54
Operator : SJ/JU
Sample : I4739-05 5X
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S11-WC-5

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF081517.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

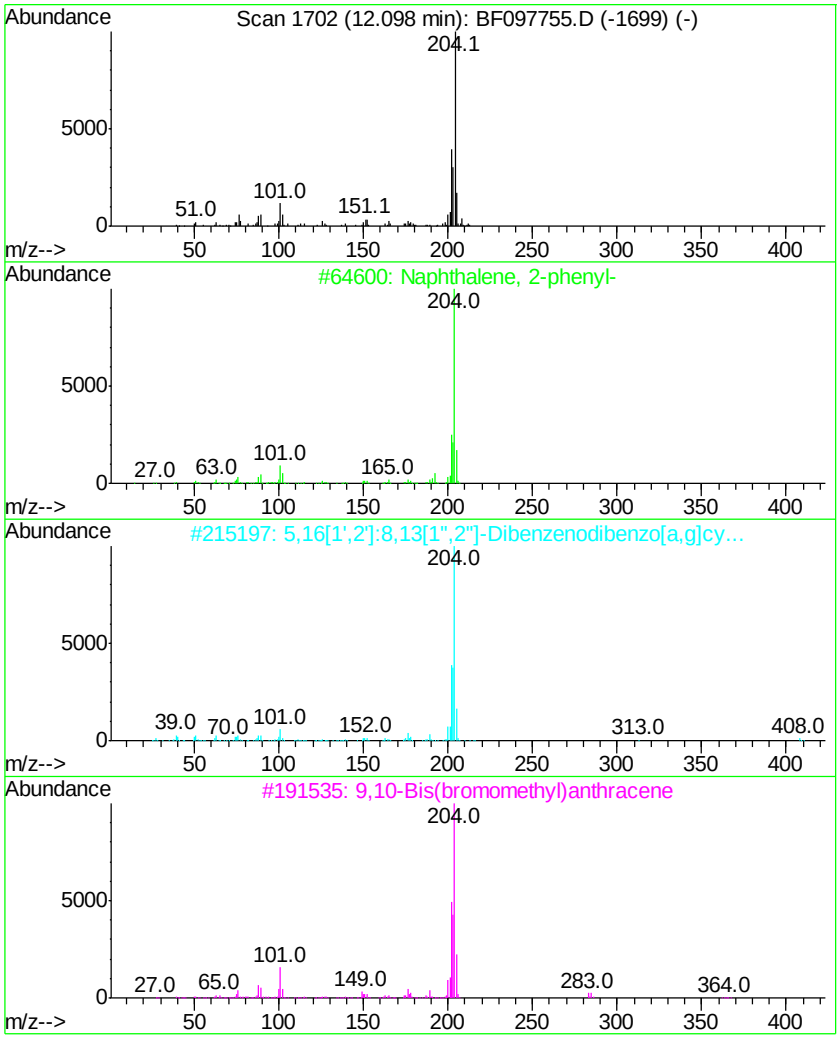
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

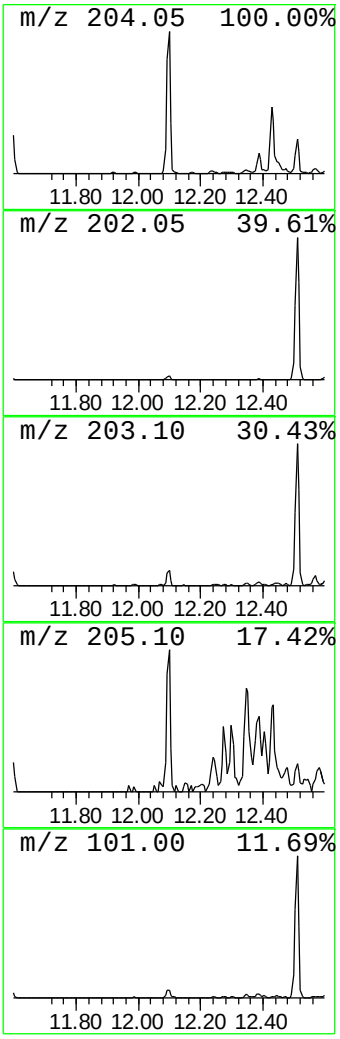
**********

Peak Number 6 Naphthalene, 2-phenyl- Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.10 | 2.10 ng | 128984 | Phenanthrene-d10 | 11.30 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2-phenyl- | 204 | C16H12 | 000612-94-2 | 92 |
| 2 | 5,16[1',2']:8,13[1'',2'']-Dibenz... | 408 | C32H24 | 005672-97-9 | 86 |
| 3 | 9,10-Bis(bromomethyl)anthracene | 362 | C16H12Br2 | 034373-96-1 | 70 |
| 4 | Tricyclo[8.2.2.2(4,7)]hexadeca-2... | 204 | C16H12 | 006572-60-7 | 70 |
| 5 | Naphthalene, 1-phenyl- | 204 | C16H12 | 000605-02-7 | 55 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF081617\
Data File : BF097755.D
Acq On : 16 Aug 2017 22:54
Operator : SJ/JU
Sample : I4739-05 5X
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S11-WC-5

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF081517.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

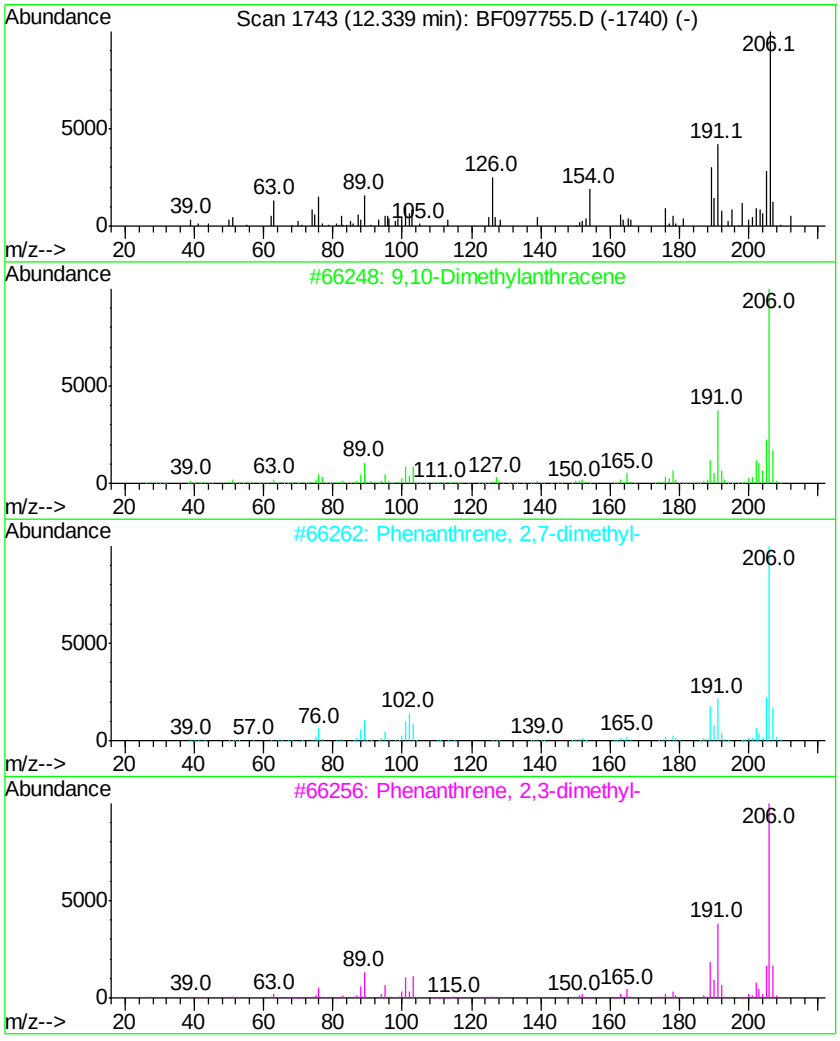
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

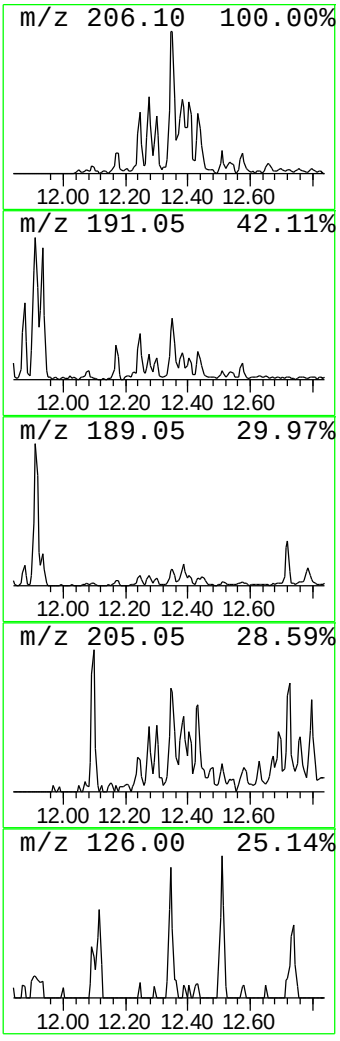
**********

Peak Number 7 9,10-Dimethylanthracene Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.34 | 2.30 ng | 141274 | Phenanthrene-d10 | 11.30 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 9,10-Dimethylanthracene | 206 | C16H14 | 000781-43-1 | 93 |
| 2 | Phenanthrene, 2,7-dimethyl- | 206 | C16H14 | 001576-69-8 | 90 |
| 3 | Phenanthrene, 2,3-dimethyl- | 206 | C16H14 | 003674-65-5 | 90 |
| 4 | Phenanthrene, 3,6-dimethyl- | 206 | C16H14 | 001576-67-6 | 87 |
| 5 | Phenanthrene, 2,5-dimethyl- | 206 | C16H14 | 003674-66-6 | 83 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF081617\
Data File : BF097755.D
Acq On : 16 Aug 2017 22:54
Operator : SJ/JU
Sample : I4739-05 5X
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S11-WC-5

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF081517.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

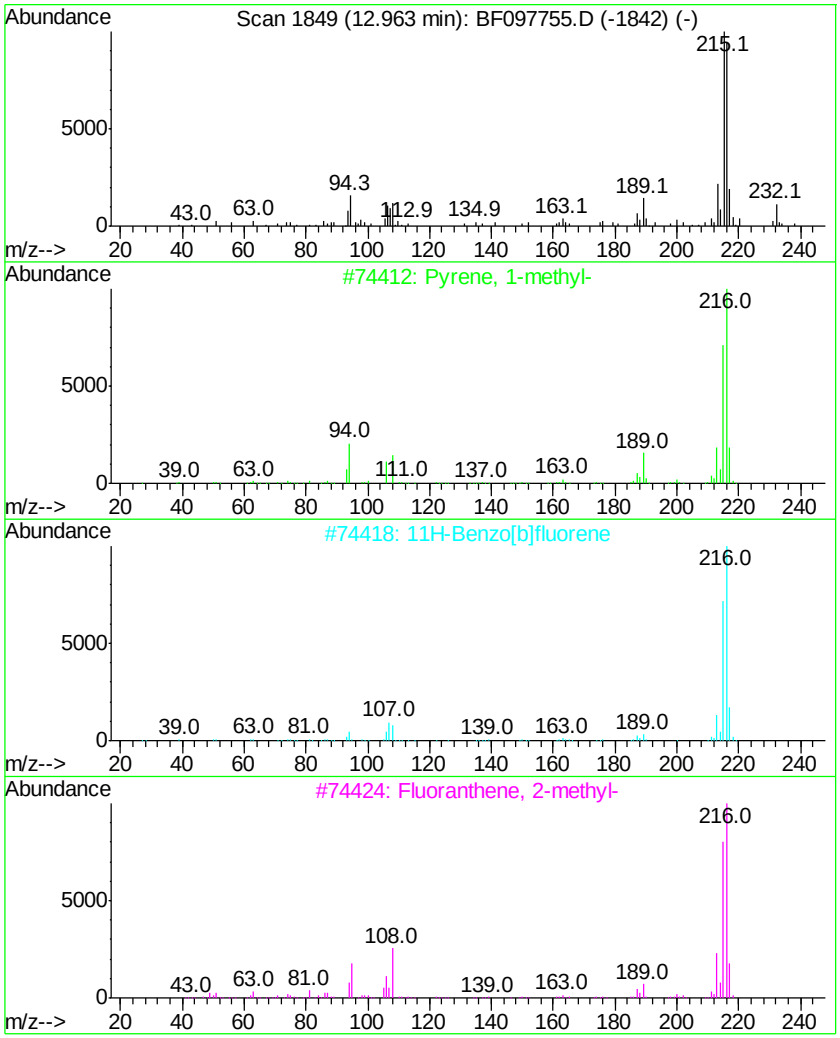
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

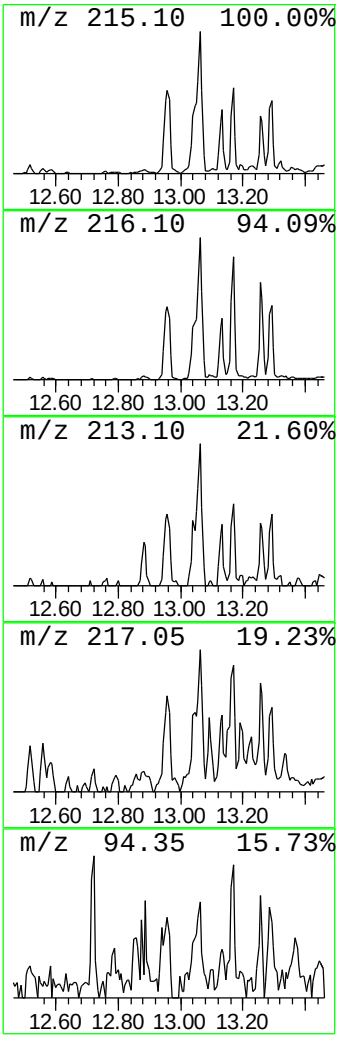
**********

Peak Number 8 Pyrene, 1-methyl- Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.96 | 2.07 ng | 174838 | Chrysene-d12 | 13.93 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 98 |
| 2 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 87 |
| 3 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 76 |
| 4 | 7H-Benzo[c]fluorene | 216 | C17H12 | 000205-12-9 | 64 |
| 5 | Pyrene, 2-methyl- | 216 | C17H12 | 003442-78-2 | 62 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF081617\
Data File : BF097755.D
Acq On : 16 Aug 2017 22:54
Operator : SJ/JU
Sample : I4739-05 5X
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S11-WC-5

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF081517.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

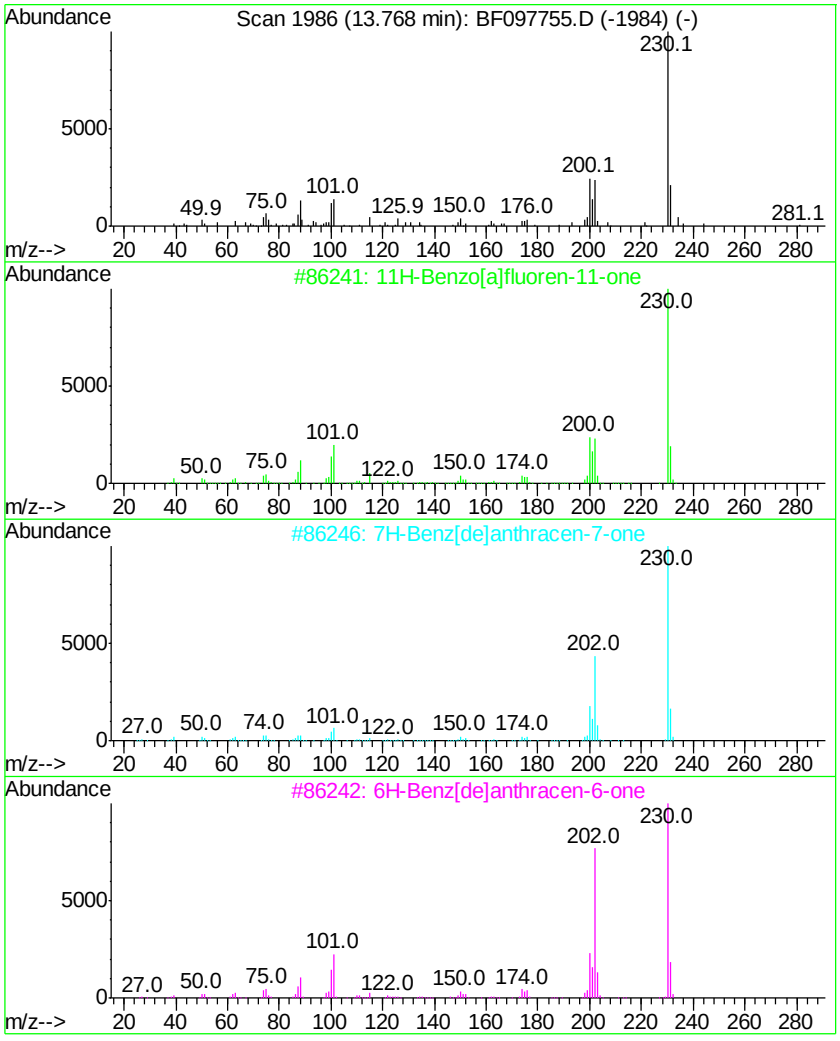
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

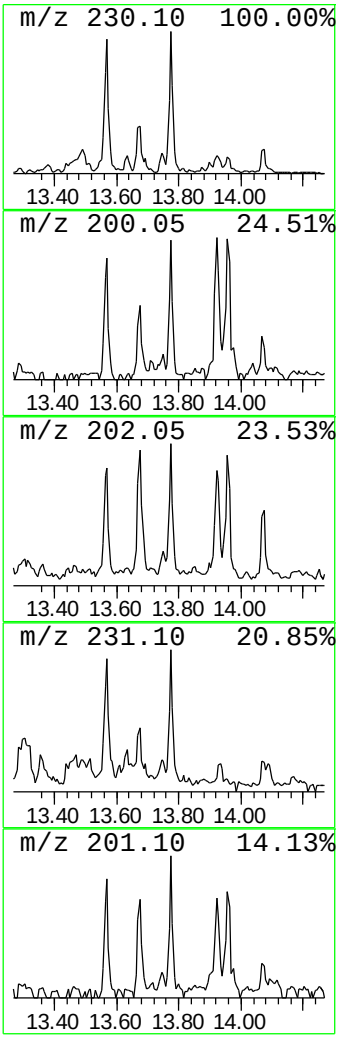
**********

Peak Number 9 11H-Benzo[a]fluoren-11-one Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.77 | 2.11 ng | 177747 | Chrysene-d12 | 13.93 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 11H-Benzo[a]fluoren-11-one | 230 | C17H10O | 000479-79-8 | 94 |
| 2 | 7H-Benz[de]anthracen-7-one | 230 | C17H10O | 000082-05-3 | 91 |
| 3 | 6H-Benz[de]anthracen-6-one | 230 | C17H10O | 080252-14-8 | 64 |
| 4 | o-Terphenyl | 230 | C18H14 | 000084-15-1 | 59 |
| 5 | 5,6-Dihydrochrysene | 230 | C18H14 | 002091-92-1 | 52 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF081617\
Data File : BF097755.D
Acq On : 16 Aug 2017 22:54
Operator : SJ/JU
Sample : I4739-05 5X
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S11-WC-5

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF081517.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

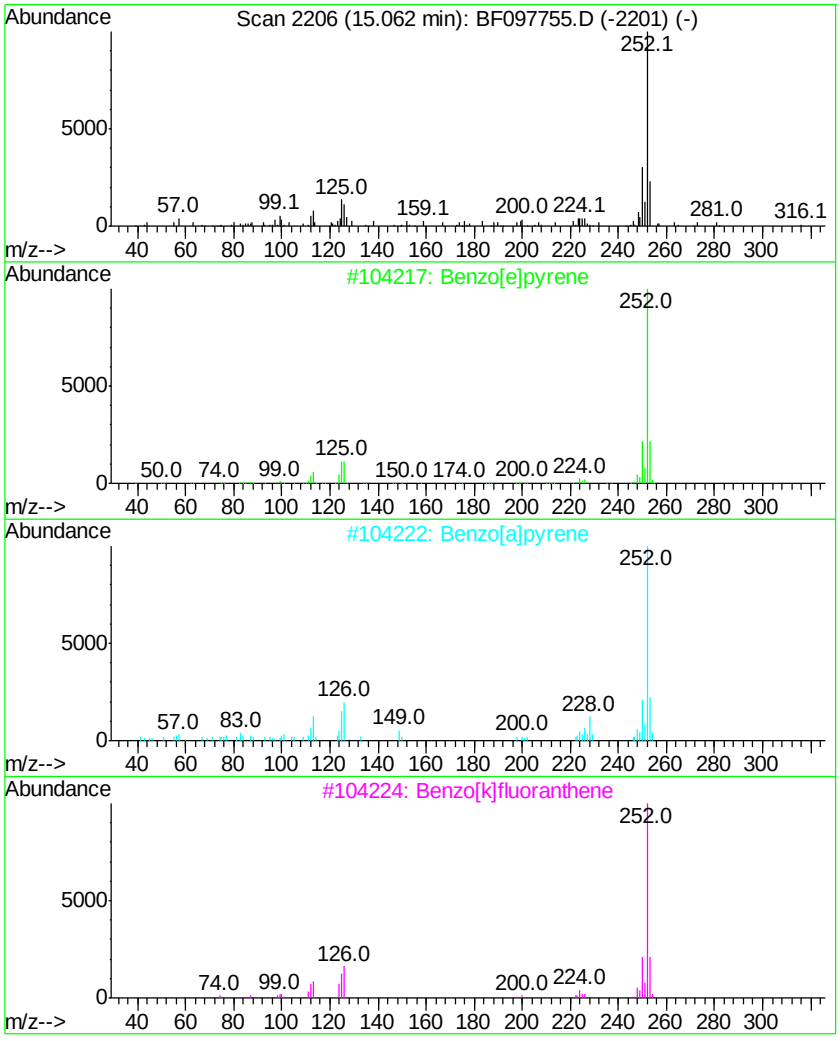
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

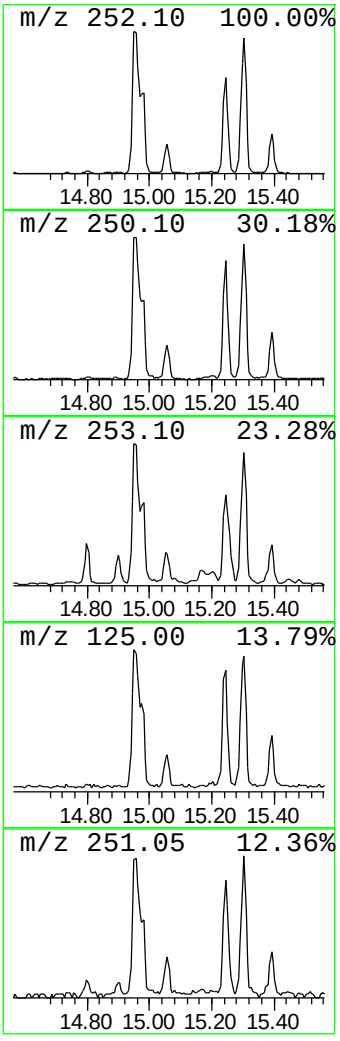
**********

Peak Number 10 Benzo[e]pyrene Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.06 | 2.82 ng | 115981 | Perylene-d12 | 15.37 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzo[e]pyrene | 252 | C20H12 | 000192-97-2 | 93 |
| 2 | Benzo[a]pyrene | 252 | C20H12 | 000050-32-8 | 91 |
| 3 | Benzo[k]fluoranthene | 252 | C20H12 | 000207-08-9 | 91 |
| 4 | Benz[e]acephenanthrylene | 252 | C20H12 | 000205-99-2 | 90 |
| 5 | Perylene | 252 | C20H12 | 000198-55-0 | 81 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF081617\
Data File : BF097755.D
Acq On : 16 Aug 2017 22:54
Operator : SJ/JU
Sample : I4739-05 5X
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S11-WC-5

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF081517.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

| | | | | | Internal Standard | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| unknown6.54 | 6.54 | 17.8 | ng | 955607 | 1 | 6.78 | 1072960 | 20.0 |
| Anthracene, 1-met... | 11.80 | 3.1 | ng | 191784 | 4 | 11.30 | 1226360 | 20.0 |
| Phenanthrene, 2-m... | 11.83 | 4.0 | ng | 245300 | 4 | 11.30 | 1226360 | 20.0 |
| 4H-Cyclopenta[def... | 11.91 | 5.1 | ng | 312335 | 4 | 11.30 | 1226360 | 20.0 |
| Naphthalene, 2-ph... | 12.10 | 2.1 | ng | 128984 | 4 | 11.30 | 1226360 | 20.0 |
| 9,10-Dimethylanth... | 12.34 | 2.3 | ng | 141274 | 4 | 11.30 | 1226360 | 20.0 |
| Pyrene, 1-methyl- | 12.96 | 2.1 | ng | 174838 | 5 | 13.93 | 1686760 | 20.0 |
| 11H-Benzo[a]fluor... | 13.77 | 2.1 | ng | 177747 | 5 | 13.93 | 1686760 | 20.0 |
| Benzo[e]pyrene | 15.06 | 2.8 | ng | 115981 | 6 | 15.37 | 823400 | 20.0 |