LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071919\
Data File : BF115669.D
Acq On : 19 Jul 2019 11:40
Operator : HP/JU
Sample : K3835-31
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-7(0-2)

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-BF071219.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 | 2.210 | 14 | 21 | 29 | rVB | 695598 | 903820 | 20.81% | 1.627% |
| 2 | 5.110 | 507 | 514 | 521 | rBV | 44259 | 65083 | 1.50% | 0.117% |
| 3 | 5.504 | 576 | 581 | 584 | rBV | 3292935 | 3325539 | 76.56% | 5.986% |
| 4 | 6.510 | 747 | 752 | 755 | rBV | 3231039 | 3554403 | 81.83% | 6.398% |
| 5 | 6.651 | 771 | 776 | 779 | rBV | 3848893 | 3687389 | 84.90% | 6.638% |
| 6 | 6.716 | 784 | 787 | 791 | rBV2 | 35064 | 50421 | 1.16% | 0.091% |
| 7 | 6.881 | 811 | 815 | 818 | rBV | 1551115 | 1271514 | 29.27% | 2.289% |
| 8 | 7.039 | 837 | 842 | 845 | rBV | 3326294 | 2998842 | 69.04% | 5.398% |
| 9 | 7.439 | 904 | 910 | 913 | rBV | 2487313 | 2381358 | 54.83% | 4.287% |
| 10 | 8.163 | 1028 | 1033 | 1036 | rBV | 1880838 | 1636451 | 37.68% | 2.946% |
| 11 | 9.239 | 1210 | 1216 | 1219 | rBV | 4777310 | 4343466 | 100.00% | 7.819% |
| 12 | 9.357 | 1234 | 1236 | 1243 | rVB2 | 63247 | 88578 | 2.04% | 0.159% |
| 13 | 9.628 | 1278 | 1282 | 1285 | rBV | 1488678 | 1111844 | 25.60% | 2.001% |
| 14 | 9.775 | 1302 | 1307 | 1312 | rBV | 81424 | 77804 | 1.79% | 0.140% |
| 15 | 9.916 | 1325 | 1331 | 1335 | rBV | 2059332 | 1850650 | 42.61% | 3.331% |
| 16 | 10.116 | 1362 | 1365 | 1370 | rBV | 66714 | 72115 | 1.66% | 0.130% |
| 17 | 10.292 | 1392 | 1395 | 1398 | rBV | 194179 | 145289 | 3.35% | 0.262% |
| 18 | 10.704 | 1460 | 1465 | 1476 | rBV | 2625794 | 2449123 | 56.39% | 4.409% |
| 19 | 10.822 | 1482 | 1485 | 1495 | rVB3 | 72332 | 119026 | 2.74% | 0.214% |
| 20 | 11.063 | 1520 | 1526 | 1530 | rBV6 | 25740 | 49284 | 1.13% | 0.089% |
| 21 | 11.204 | 1547 | 1550 | 1554 | rVB | 74500 | 68602 | 1.58% | 0.123% |
| 22 | 11.298 | 1564 | 1566 | 1571 | rVB | 54924 | 54320 | 1.25% | 0.098% |
| 23 | 11.345 | 1571 | 1574 | 1578 | rBV4 | 52130 | 79681 | 1.83% | 0.143% |
| 24 | 11.404 | 1578 | 1584 | 1586 | rVV | 1824483 | 1702184 | 39.19% | 3.064% |
| 25 | 11.422 | 1586 | 1587 | 1591 | rVV | 580881 | 470424 | 10.83% | 0.847% |
| 26 | 11.474 | 1594 | 1596 | 1599 | rVB | 131978 | 107401 | 2.47% | 0.193% |
| 27 | 11.627 | 1617 | 1622 | 1624 | rBV2 | 85370 | 99743 | 2.30% | 0.180% |
| 28 | 11.698 | 1631 | 1634 | 1637 | rBV2 | 62387 | 69977 | 1.61% | 0.126% |
| 29 | 11.857 | 1657 | 1661 | 1663 | rBV | 44814 | 46641 | 1.07% | 0.084% |
| 30 | 11.904 | 1664 | 1669 | 1670 | rVV | 110606 | 121898 | 2.81% | 0.219% |
| 31 | 11.933 | 1670 | 1674 | 1680 | rVV | 1040962 | 1138648 | 26.22% | 2.050% |
| 32 | 12.016 | 1684 | 1688 | 1690 | rVV2 | 130734 | 155538 | 3.58% | 0.280% |
| 33 | 12.039 | 1690 | 1692 | 1696 | rVB | 83039 | 75728 | 1.74% | 0.136% |
| 34 | 12.104 | 1700 | 1703 | 1706 | rBV | 99241 | 92214 | 2.12% | 0.166% |

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071919\
Data File : BF115669.D
Acq On : 19 Jul 2019 11:40
Operator : HP/JU
Sample : K3835-31
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-7(0-2)

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-BF071219.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 12.198 | 1714 | 1719 | 1721 | rBV | 91491 | 106869 | 2.46% | 0.192% |
| 36 | 12.221 | 1721 | 1723 | 1727 | rVB | 125322 | 107140 | 2.47% | 0.193% |
| 37 | 12.451 | 1759 | 1762 | 1765 | rBV | 95550 | 95573 | 2.20% | 0.172% |
| 38 | 12.492 | 1766 | 1769 | 1773 | rBV2 | 103614 | 103789 | 2.39% | 0.187% |
| 39 | 12.533 | 1773 | 1776 | 1782 | rVB | 111630 | 128883 | 2.97% | 0.232% |
| 40 | 12.592 | 1783 | 1786 | 1787 | rBV | 127503 | 109588 | 2.52% | 0.197% |
| 41 | 12.616 | 1787 | 1790 | 1793 | rBV | 1115960 | 908948 | 20.93% | 1.636% |
| 42 | 12.710 | 1803 | 1806 | 1814 | rBV2 | 377600 | 444716 | 10.24% | 0.801% |
| 43 | 12.845 | 1823 | 1829 | 1831 | rBV | 986174 | 991651 | 22.83% | 1.785% |
| 44 | 12.892 | 1834 | 1837 | 1841 | rVB2 | 54059 | 72677 | 1.67% | 0.131% |
| 45 | 12.986 | 1849 | 1853 | 1856 | rBV | 3677327 | 3259367 | 75.04% | 5.867% |
| 46 | 13.063 | 1861 | 1866 | 1869 | rBV2 | 75025 | 135117 | 3.11% | 0.243% |
| 47 | 13.151 | 1878 | 1881 | 1882 | rBV3 | 50235 | 56633 | 1.30% | 0.102% |
| 48 | 13.168 | 1882 | 1884 | 1887 | rVB2 | 150487 | 146368 | 3.37% | 0.263% |
| 49 | 13.221 | 1890 | 1893 | 1894 | rBV | 87476 | 80328 | 1.85% | 0.145% |
| 50 | 13.239 | 1894 | 1896 | 1898 | rVB | 90158 | 66969 | 1.54% | 0.121% |
| 51 | 13.274 | 1898 | 1902 | 1906 | rBV2 | 148093 | 187742 | 4.32% | 0.338% |
| 52 | 13.368 | 1915 | 1918 | 1921 | rVB2 | 71809 | 69049 | 1.59% | 0.124% |
| 53 | 13.398 | 1921 | 1923 | 1926 | rBV | 63736 | 64696 | 1.49% | 0.116% |
| 54 | 13.563 | 1948 | 1951 | 1959 | rVB3 | 99277 | 141339 | 3.25% | 0.254% |
| 55 | 13.674 | 1968 | 1970 | 1975 | rVB | 158481 | 162195 | 3.73% | 0.292% |
| 56 | 13.786 | 1986 | 1989 | 1992 | rBV2 | 89457 | 119775 | 2.76% | 0.216% |
| 57 | 13.839 | 1996 | 1998 | 2002 | rVV2 | 88567 | 115456 | 2.66% | 0.208% |
| 58 | 13.886 | 2003 | 2006 | 2010 | rVB3 | 231402 | 245680 | 5.66% | 0.442% |
| 59 | 13.939 | 2011 | 2015 | 2025 | rBV5 | 269855 | 779637 | 17.95% | 1.403% |
| 60 | 14.039 | 2027 | 2032 | 2035 | rVV2 | 1442400 | 1890662 | 43.53% | 3.403% |
| 61 | 14.068 | 2035 | 2037 | 2045 | rVB | 567449 | 489962 | 11.28% | 0.882% |
| 62 | 14.145 | 2048 | 2050 | 2053 | rBV | 56932 | 46019 | 1.06% | 0.083% |
| 63 | 14.204 | 2058 | 2060 | 2062 | rVV | 119675 | 84732 | 1.95% | 0.153% |
| 64 | 14.257 | 2067 | 2069 | 2072 | rBV2 | 69897 | 82250 | 1.89% | 0.148% |
| 65 | 14.327 | 2079 | 2081 | 2084 | rVB2 | 70758 | 58006 | 1.34% | 0.104% |
| 66 | 14.427 | 2096 | 2098 | 2101 | rVB | 123979 | 95614 | 2.20% | 0.172% |
| 67 | 14.463 | 2101 | 2104 | 2107 | rVB2 | 87487 | 80815 | 1.86% | 0.145% |
| 68 | 14.510 | 2109 | 2112 | 2117 | rVV2 | 308654 | 303876 | 7.00% | 0.547% |
| 69 | 14.557 | 2117 | 2120 | 2121 | rVV | 89081 | 105805 | 2.44% | 0.190% |
| 70 | 14.574 | 2121 | 2123 | 2138 | rVB7 | 238167 | 656070 | 15.10% | 1.181% |
| 71 | 14.821 | 2162 | 2165 | 2168 | rBV | 180002 | 173272 | 3.99% | 0.312% |

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071919\
Data File : BF115669.D
Acq On : 19 Jul 2019 11:40
Operator : HP/JU
Sample : K3835-31
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-7(0-2)

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-BF071219.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 14.962 | 2186 | 2189 | 2192 | rBV2 | 288607 | 271372 | 6.25% | 0.489% |
| 73 | 15.086 | 2206 | 2210 | 2217 | rBV | 547391 | 1046298 | 24.09% | 1.883% |
| 74 | 15.162 | 2219 | 2223 | 2226 | rBV | 523309 | 566605 | 13.04% | 1.020% |
| 75 | 15.192 | 2226 | 2228 | 2232 | rVB | 117652 | 110608 | 2.55% | 0.199% |
| 76 | 15.251 | 2234 | 2238 | 2250 | rBV8 | 261376 | 979698 | 22.56% | 1.764% |
| 77 | 15.392 | 2258 | 2262 | 2268 | rVB | 407204 | 526124 | 12.11% | 0.947% |
| 78 | 15.451 | 2268 | 2272 | 2279 | rBV | 418028 | 560653 | 12.91% | 1.009% |
| 79 | 15.521 | 2279 | 2284 | 2286 | rVV | 825709 | 1092844 | 25.16% | 1.967% |
| 80 | 15.545 | 2286 | 2288 | 2295 | rVB2 | 330440 | 417032 | 9.60% | 0.751% |
| 81 | 15.751 | 2318 | 2323 | 2328 | rVB2 | 481953 | 685639 | 15.79% | 1.234% |
| 82 | 15.986 | 2359 | 2363 | 2369 | rVB | 544275 | 801041 | 18.44% | 1.442% |
| 83 | 16.498 | 2446 | 2450 | 2456 | rBV | 136845 | 247535 | 5.70% | 0.446% |
| 84 | 16.792 | 2496 | 2500 | 2506 | rBV3 | 123973 | 231089 | 5.32% | 0.416% |
| 85 | 16.992 | 2530 | 2534 | 2545 | rVB2 | 183081 | 396093 | 9.12% | 0.713% |
| 86 | 17.445 | 2607 | 2611 | 2620 | rVB | 189397 | 386321 | 8.89% | 0.695% |

Sum of corrected areas: 55551218

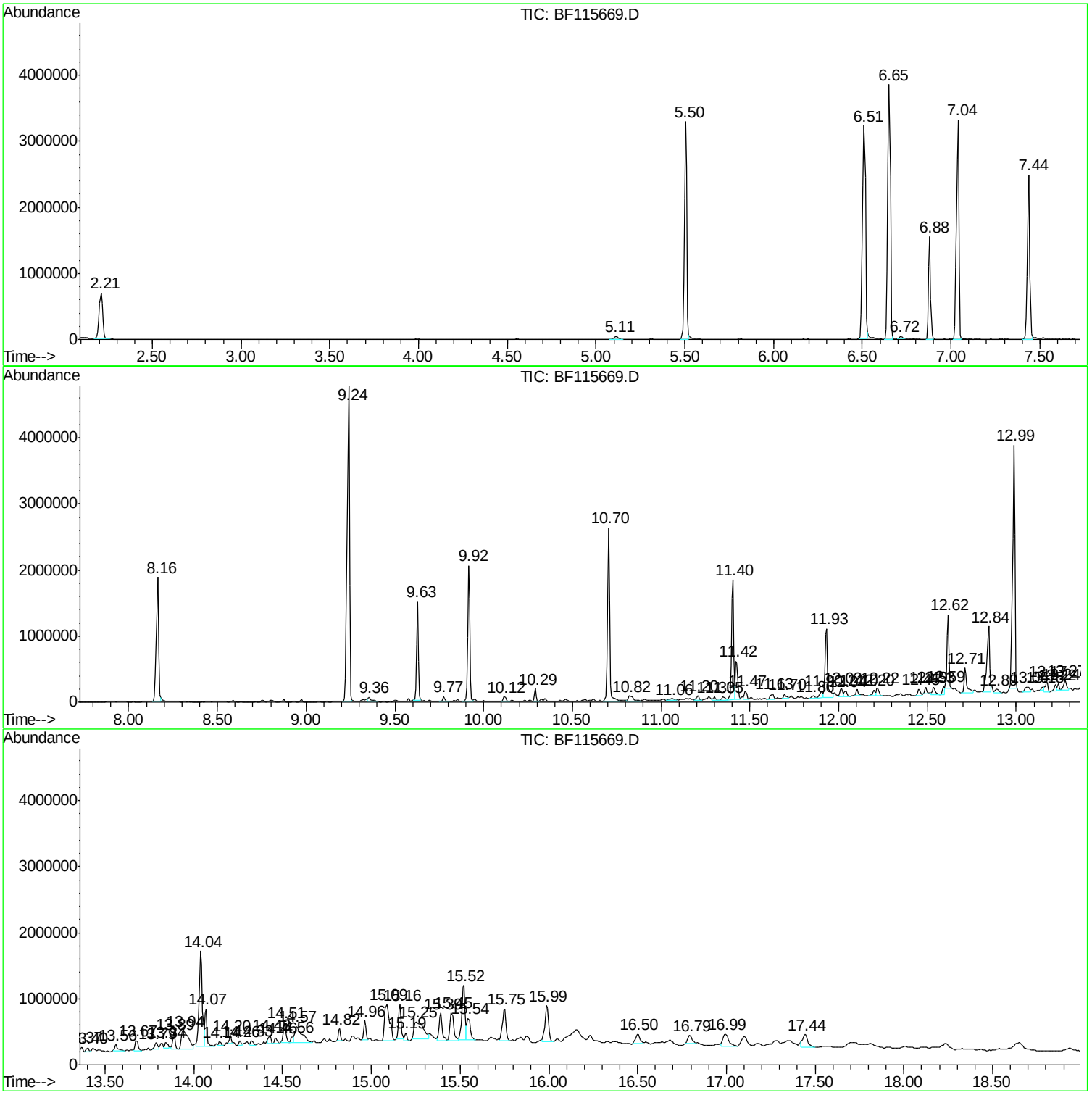
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071919\
Data File : BF115669.D
Acq On : 19 Jul 2019 11:40
Operator : HP/JU
Sample : K3835-31
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-7(0-2)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071219.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:\SVOASRV\HPCHEM1\BNA F\DATA\BF071919\
Data File : BF115669.D
Acq On : 19 Jul 2019 11:40
Operator : HP/JU
Sample : K3835-31
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-7(0-2)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071219.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

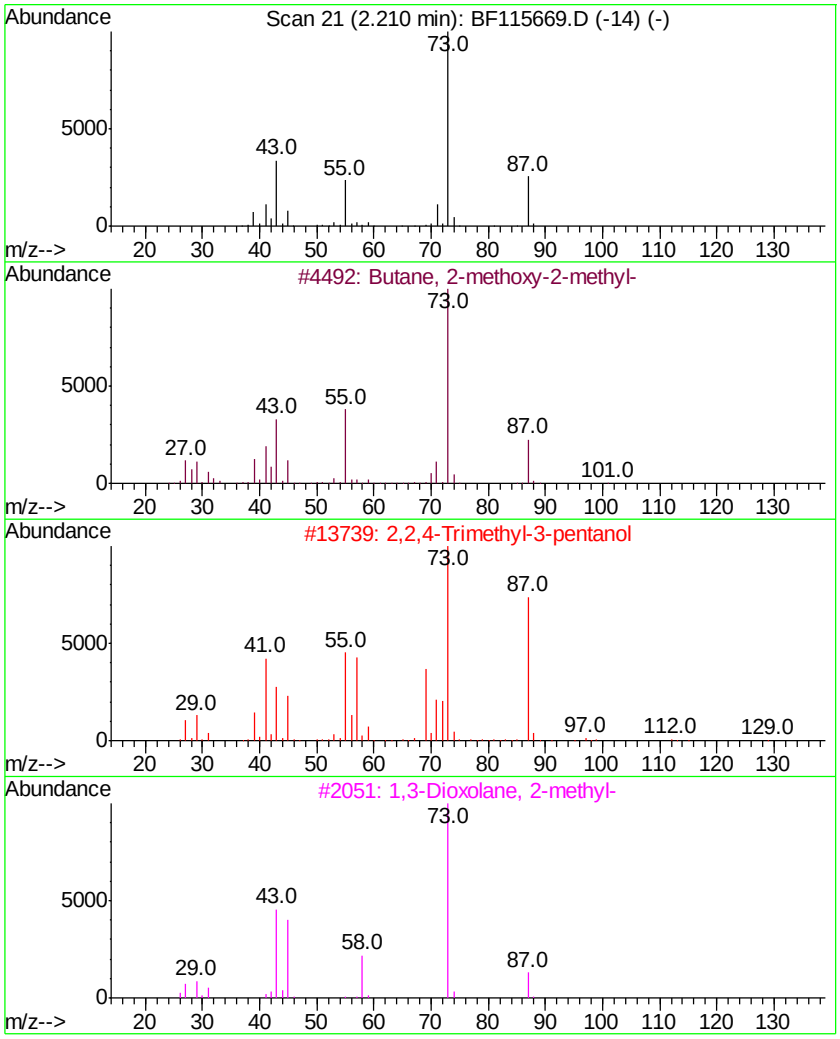
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

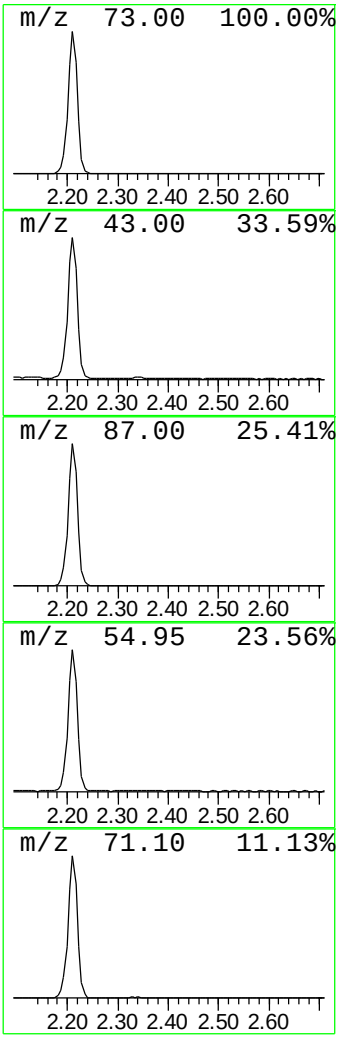
**********

Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 2.21 | 14.22 ng | 903820 | 1,4-Dichlorobenzene-d4 | 6.88 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butane, 2-methoxy-2-methyl- | 102 | C6H14O | 000994-05-8 | 83 |
| 2 | 2,2,4-Trimethyl-3-pentanol | 130 | C8H18O | 005162-48-1 | 39 |
| 3 | 1,3-Dioxolane, 2-methyl- | 88 | C4H8O2 | 000497-26-7 | 37 |
| 4 | Pentane, 3-methoxy- | 102 | C6H14O | 036839-67-5 | 23 |
| 5 | Silane, tetramethyl- | 88 | C4H12Si | 000075-76-3 | 17 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071919\
Data File : BF115669.D
Acq On : 19 Jul 2019 11:40
Operator : HP/JU
Sample : K3835-31
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-7(0-2)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071219.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

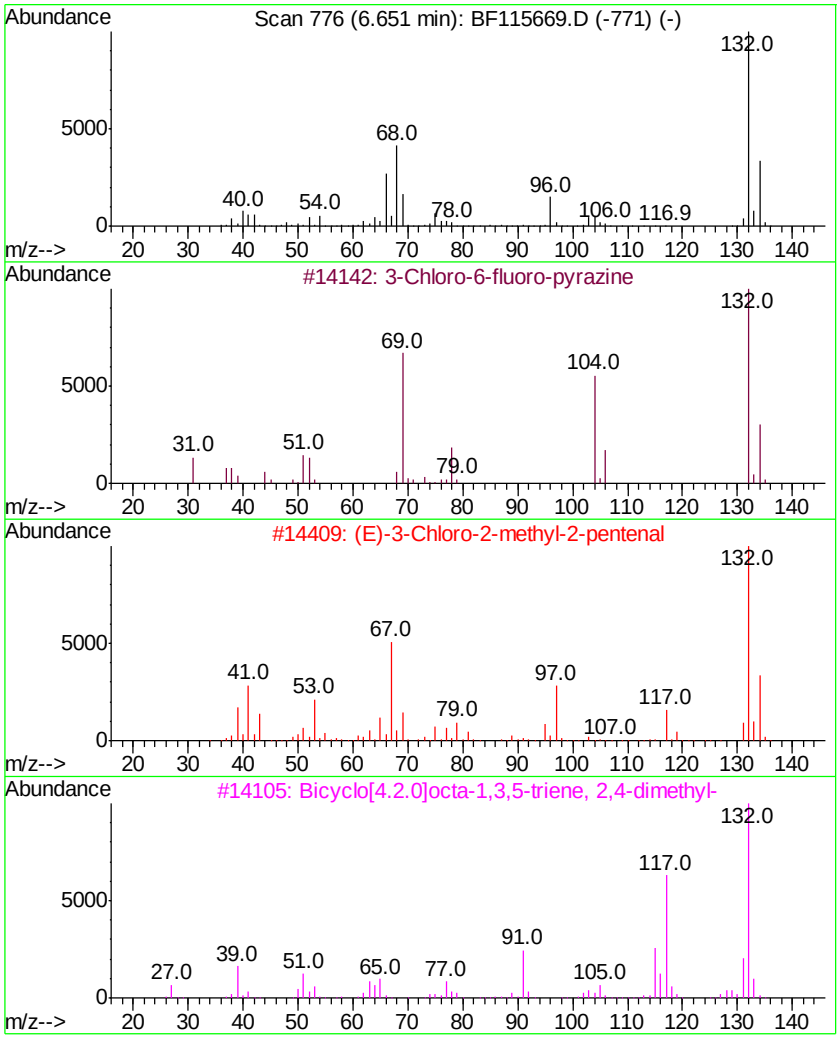
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

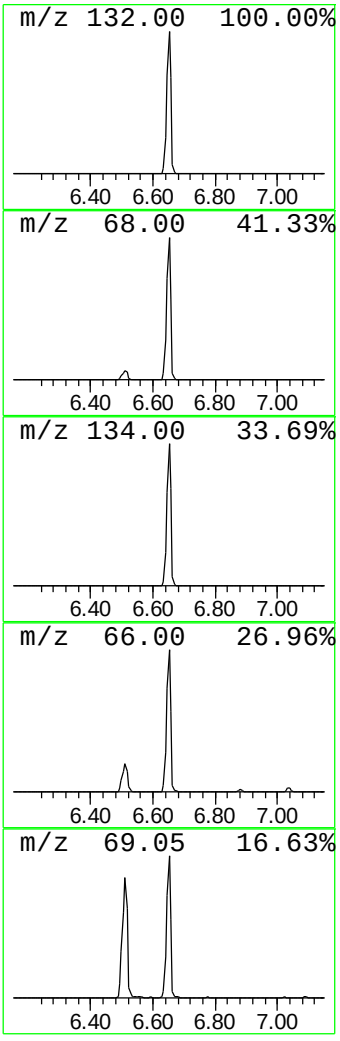
**********

Peak Number 2 unknown6.65 Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.65 | 58.00 ng | 3687390 | 1,4-Dichlorobenzene-d4 | 6.88 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Chloro-6-fluoro-pyrazine | 132 | C4H2ClFN2 | 1000146-10-7 | 27 |
| 2 | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO | 031357-76-3 | 12 |
| 3 | Bicyclo[4.2.0]octa-1,3,5-triene,... | 132 | C10H12 | 028749-81-7 | 9 |
| 4 | 1,3,4-Thiadiazole-2(3H)-thione, ... | 132 | C3H4N2S2 | 029490-19-5 | 9 |
| 5 | Xenon | 132 | Xe | 007440-63-3 | 9 |



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071919\
Data File : BF115669.D
Acq On : 19 Jul 2019 11:40
Operator : HP/JU
Sample : K3835-31
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-7(0-2)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071219.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

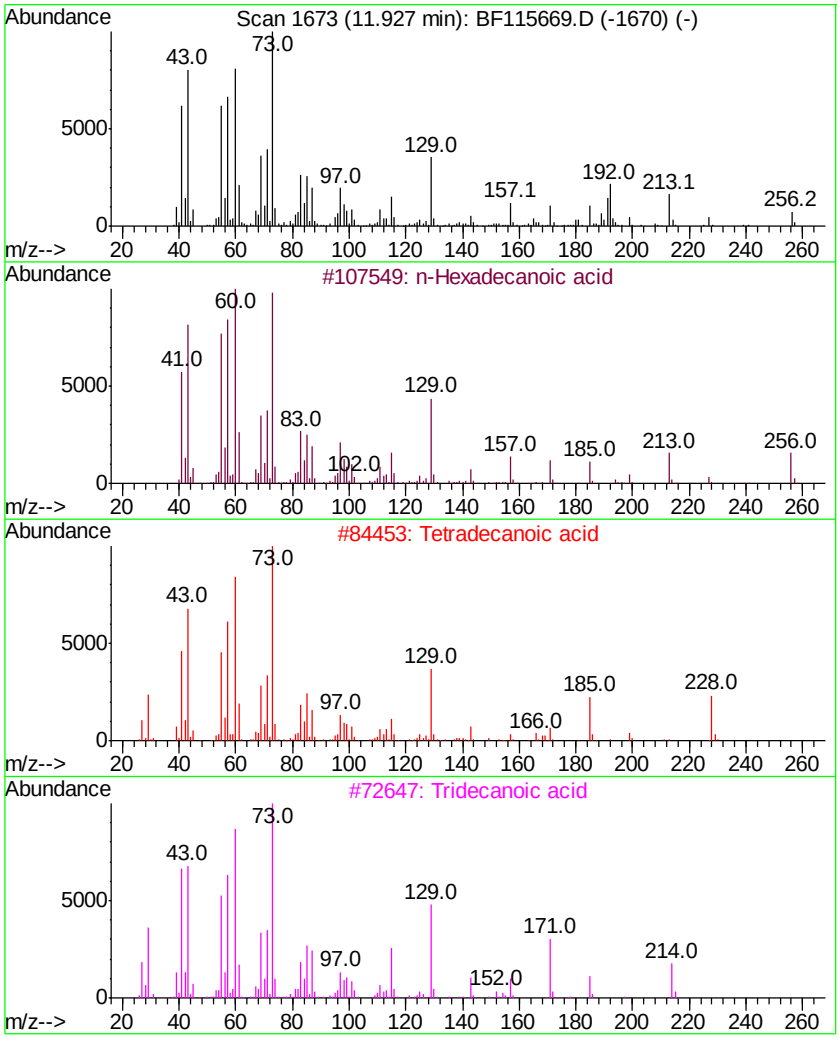
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

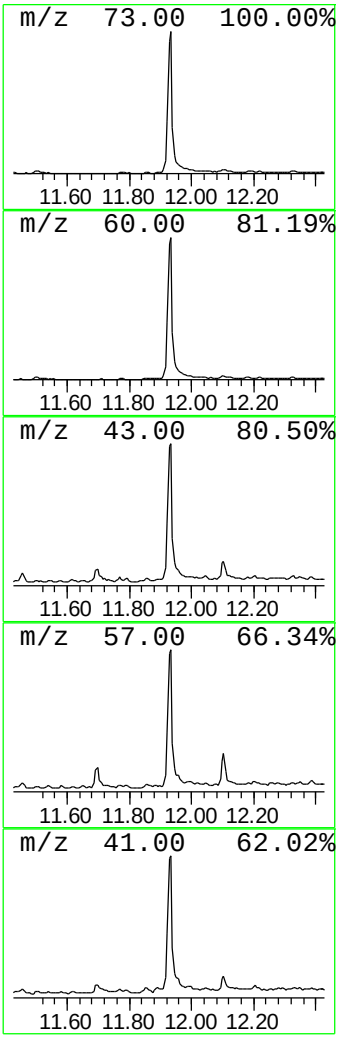
**********

Peak Number 4 n-Hexadecanoic acid Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.93 | 13.38 ng | 1138650 | Phenanthrene-d10 | 11.40 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 99 |
| 2 | Tetradecanoic acid | 228 | C14H28O2 | 000544-63-8 | 94 |
| 3 | Tridecanoic acid | 214 | C13H26O2 | 000638-53-9 | 93 |
| 4 | Pentadecanoic acid | 242 | C15H30O2 | 001002-84-2 | 87 |
| 5 | n-Decanoic acid | 172 | C10H20O2 | 000334-48-5 | 76 |



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071919\
Data File : BF115669.D
Acq On : 19 Jul 2019 11:40
Operator : HP/JU
Sample : K3835-31
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-7(0-2)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071219.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

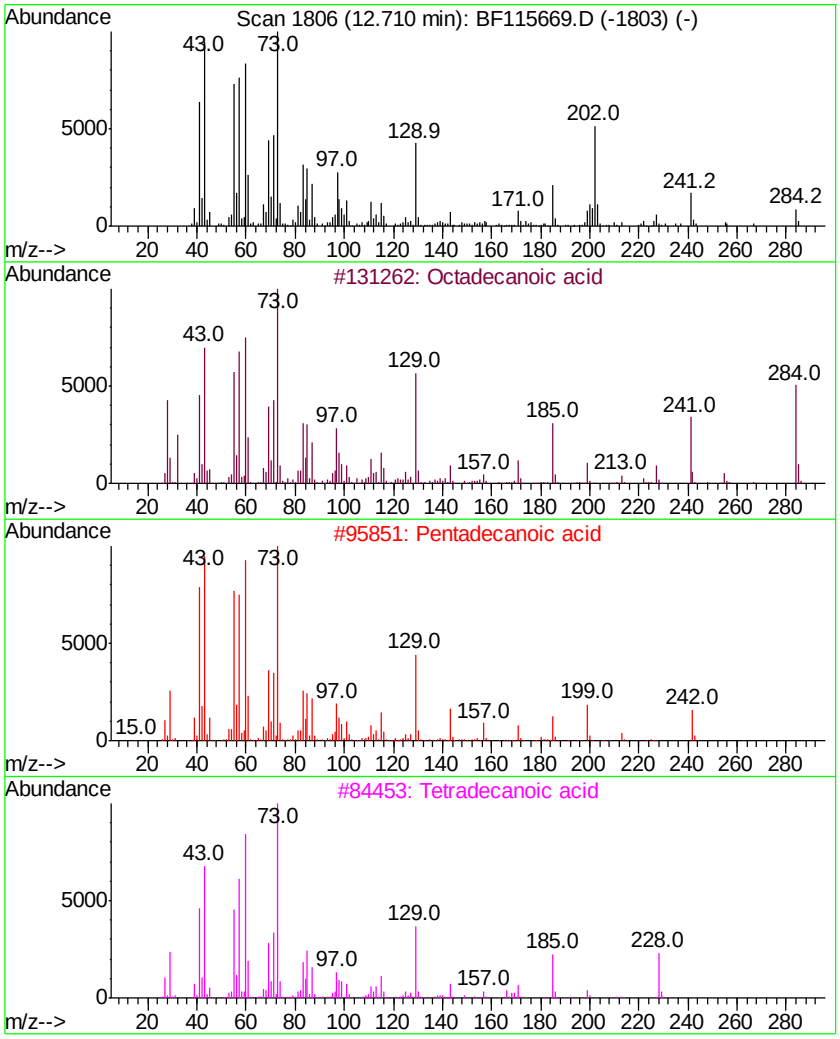
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

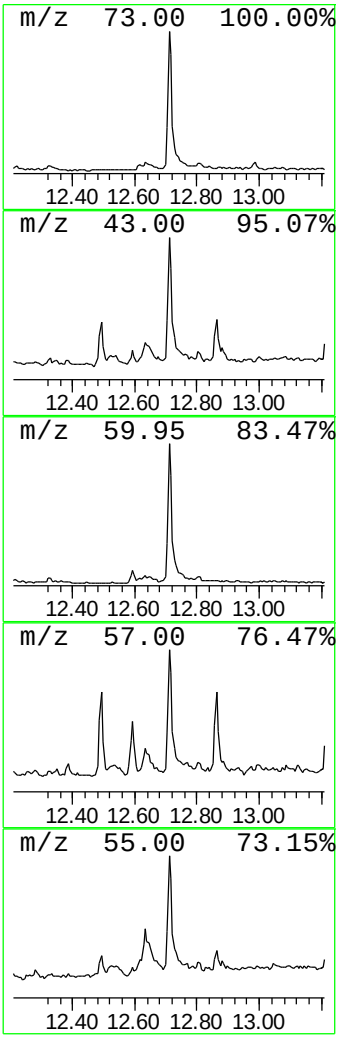
**********

Peak Number 5 Octadecanoic acid Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.71 | 5.23 ng | 444716 | Phenanthrene-d10 | 11.40 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octadecanoic acid | 284 | C18H36O2 | 000057-11-4 | 99 |
| 2 | Pentadecanoic acid | 242 | C15H30O2 | 001002-84-2 | 93 |
| 3 | Tetradecanoic acid | 228 | C14H28O2 | 000544-63-8 | 83 |
| 4 | Octadecanoic acid, 2-(2-hydroxye... | 372 | C22H44O4 | 000106-11-6 | 83 |
| 5 | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 72 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071919\
Data File : BF115669.D
Acq On : 19 Jul 2019 11:40
Operator : HP/JU
Sample : K3835-31
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-7(0-2)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071219.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

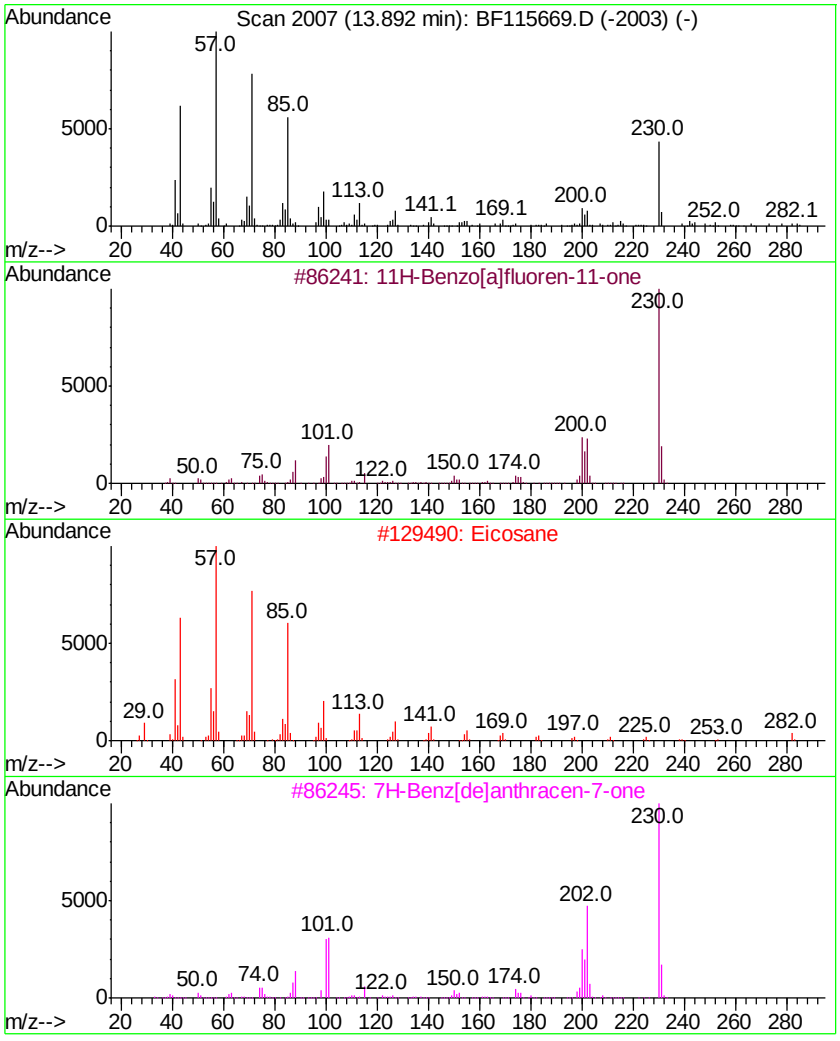
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

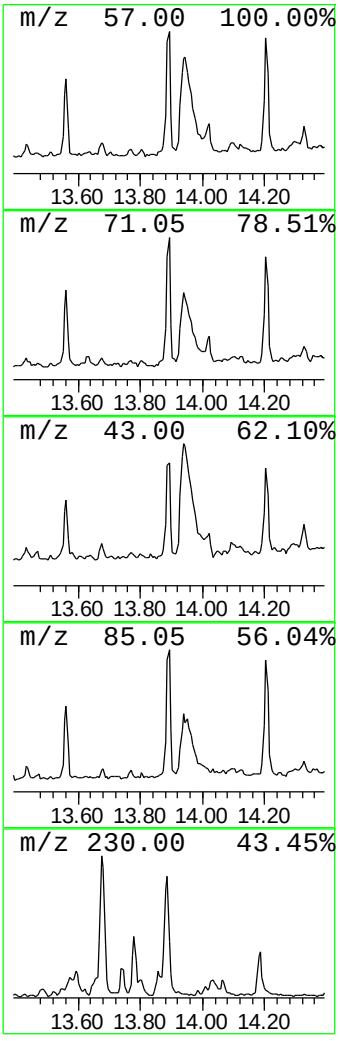
**********

Peak Number 6 11H-Benzo[a]fluoren-11-one Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.89 | 2.60 ng | 245680 | Chrysene-d12 | 14.04 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 11H-Benzo[a]fluoren-11-one | 230 | C17H10O | 000479-79-8 | 91 |
| 2 | Eicosane | 282 | C20H42 | 000112-95-8 | 53 |
| 3 | 7H-Benz[de]anthracen-7-one | 230 | C17H10O | 000082-05-3 | 49 |
| 4 | Pentadecane | 212 | C15H32 | 000629-62-9 | 47 |
| 5 | Heptadecane | 240 | C17H36 | 000629-78-7 | 42 |



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071919\
Data File : BF115669.D
Acq On : 19 Jul 2019 11:40
Operator : HP/JU
Sample : K3835-31
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-7(0-2)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071219.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

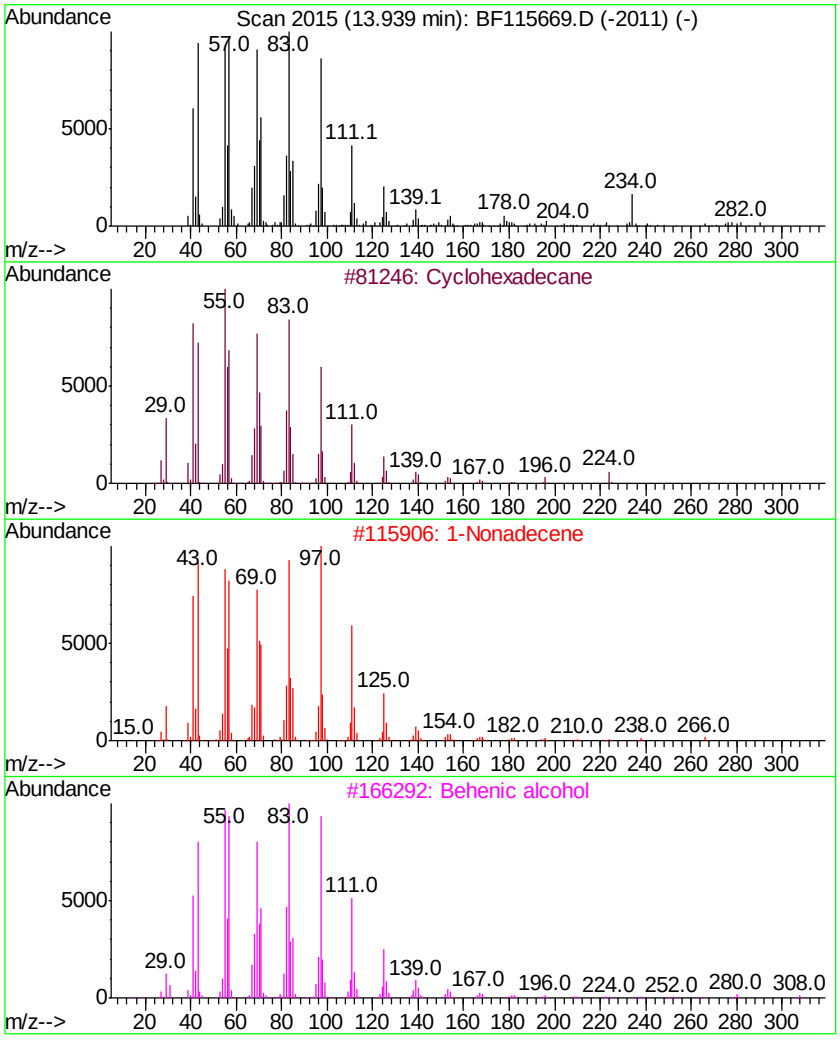
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

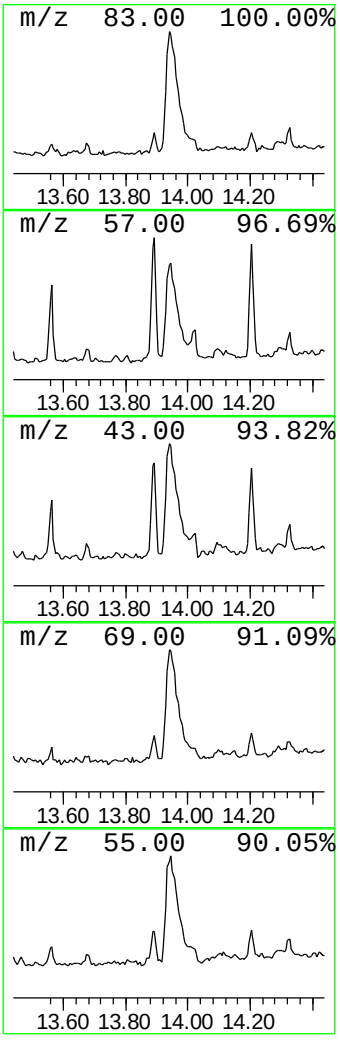
**********

Peak Number 7 Cyclohexadecane Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.94 | 8.25 ng | 779637 | Chrysene-d12 | 14.04 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexadecane | 224 | C16H32 | 000295-65-8 | 99 |
| 2 | 1-Nonadecene | 266 | C19H38 | 018435-45-5 | 96 |
| 3 | Behenic alcohol | 326 | C22H46O | 000661-19-8 | 95 |
| 4 | 9-Eicosene, (E)- | 280 | C20H40 | 074685-29-3 | 95 |
| 5 | Dichloroacetic acid, heptadecyl ... | 366 | C19H36Cl2O2 | 1000282-98-2 | 94 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071919\
Data File : BF115669.D
Acq On : 19 Jul 2019 11:40
Operator : HP/JU
Sample : K3835-31
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-7(0-2)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071219.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

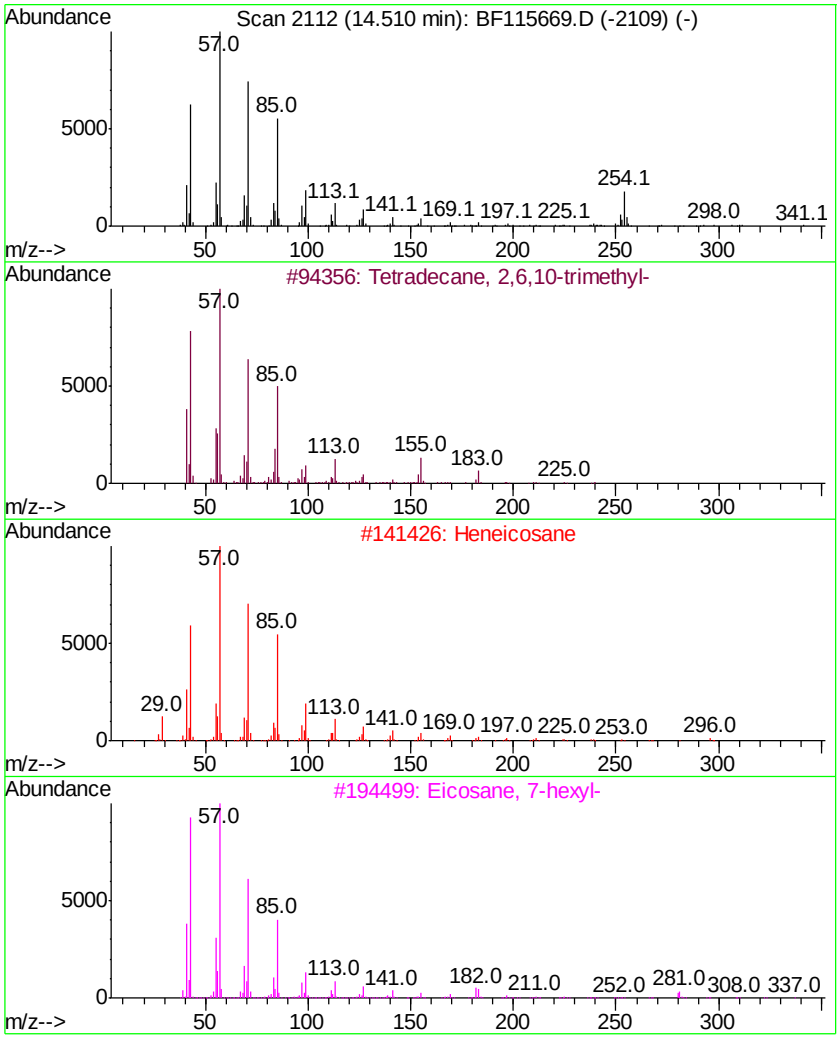
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

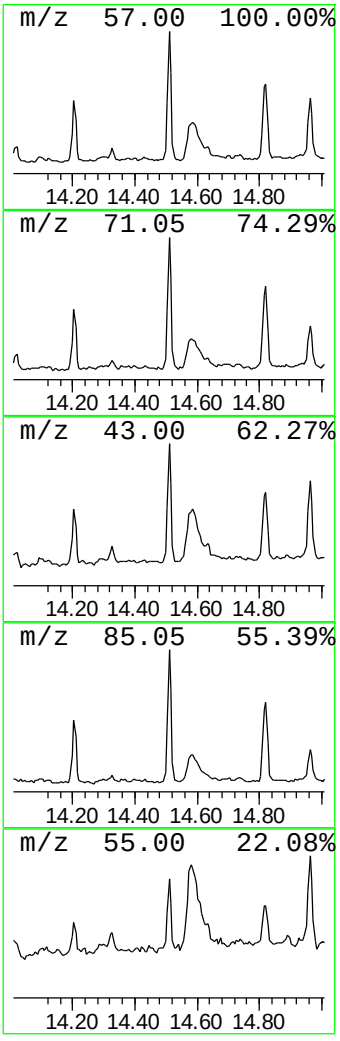
**********

Peak Number 8 Tetradecane, 2,6,10-trimethyl- Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.51 | 3.21 ng | 303876 | Chrysene-d12 | 14.04 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Tetradecane, 2,6,10-trimethyl- | 240 | C17H36 | 014905-56-7 | 87 |
| 2 | Heneicosane | 296 | C21H44 | 000629-94-7 | 87 |
| 3 | Eicosane, 7-hexyl- | 366 | C26H54 | 055333-99-8 | 80 |
| 4 | Heptadecane, 8-methyl- | 254 | C18H38 | 013287-23-5 | 80 |
| 5 | 5-Ethyl-5-methylnonadecane | 310 | C22H46 | 1000360-42-7 | 74 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071919\
Data File : BF115669.D
Acq On : 19 Jul 2019 11:40
Operator : HP/JU
Sample : K3835-31
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-7(0-2)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071219.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

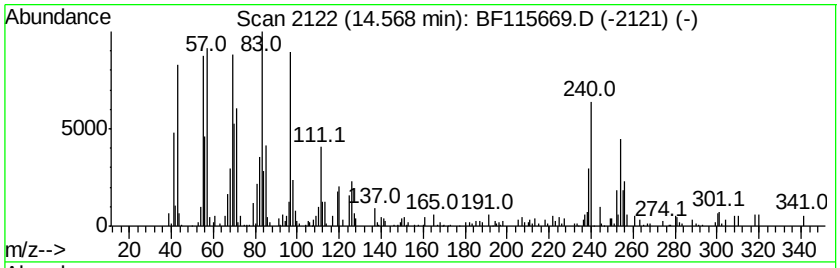
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

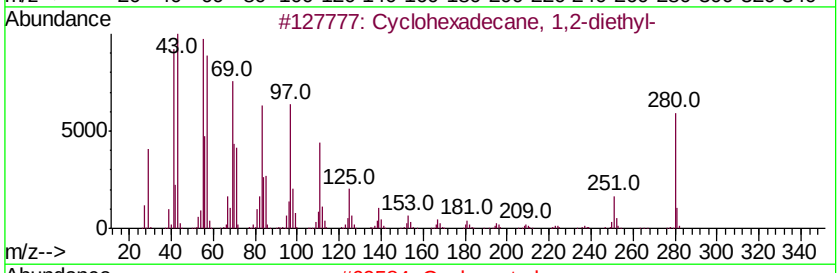
**********

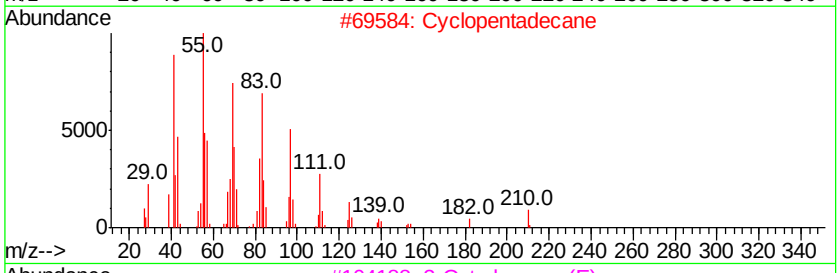
Peak Number 9 Cyclohexadecane, 1,2-diethyl- Concentration Rank 11

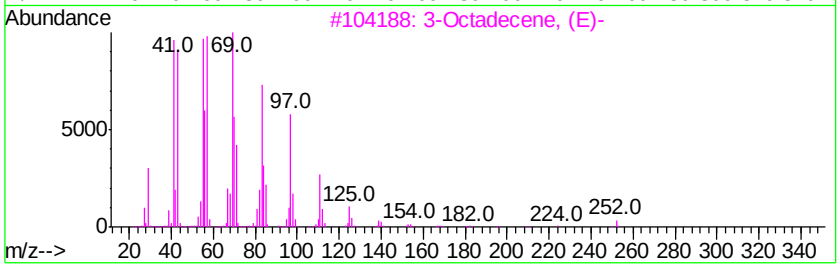
| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.57 | 6.94 ng | 656070 | Chrysene-d12 | 14.04 |

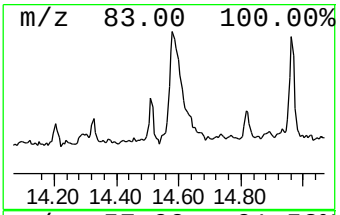
| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexadecane, 1,2-diethyl- | 280 | C20H40 | 1000155-85-3 | 90 |
| 2 | Cyclopentadecane | 210 | C15H30 | 000295-48-7 | 89 |
| 3 | 3-Octadecene, (E)- | 252 | C18H36 | 007206-19-1 | 87 |
| 4 | Carbonic acid, octadecyl 2,2,2-t... | 444 | C21H39Cl3O3 | 1000314-56-3 | 83 |
| 5 | 3-Eicosene, (E)- | 280 | C20H40 | 074685-33-9 | 80 |

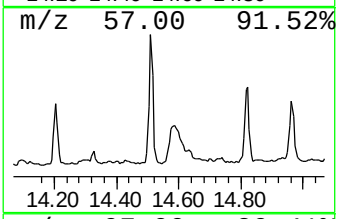


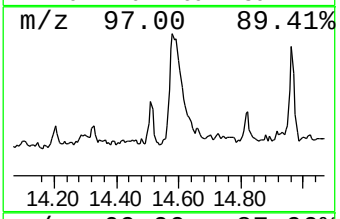



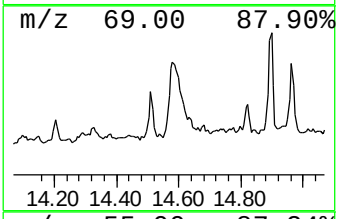



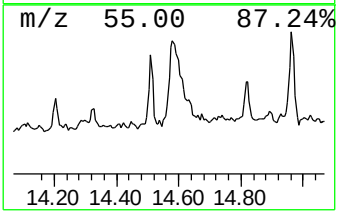



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071919\
Data File : BF115669.D
Acq On : 19 Jul 2019 11:40
Operator : HP/JU
Sample : K3835-31
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-7(0-2)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071219.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

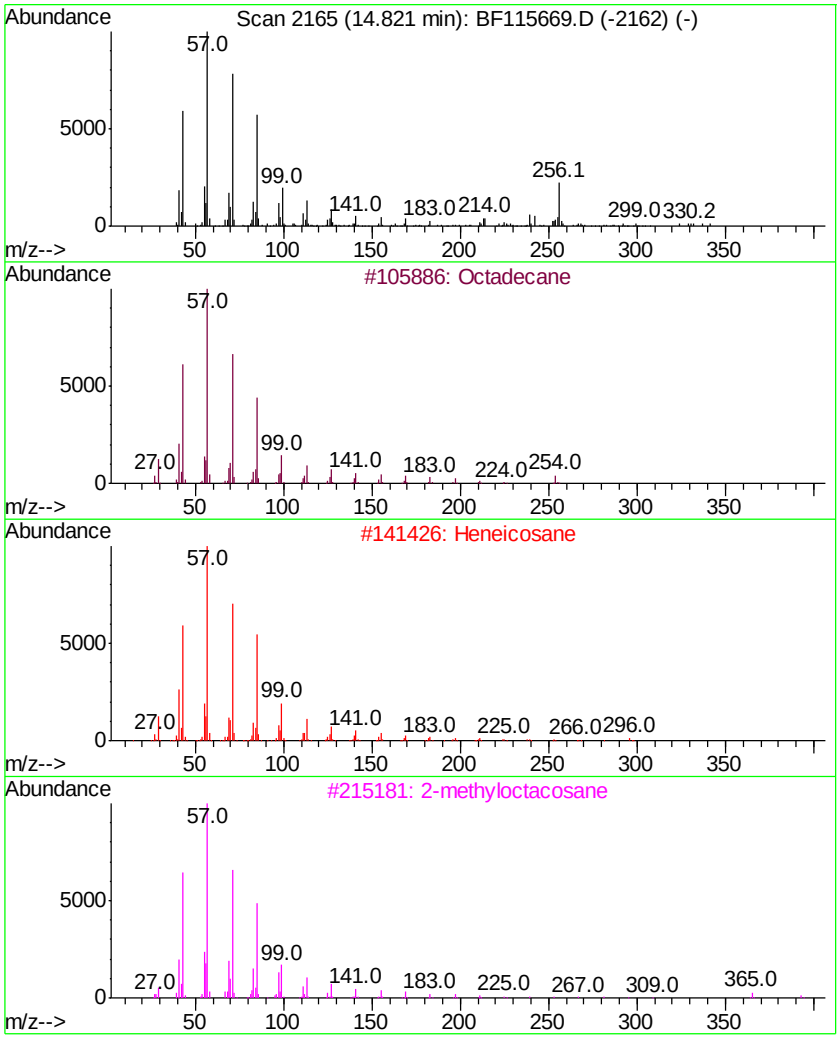
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

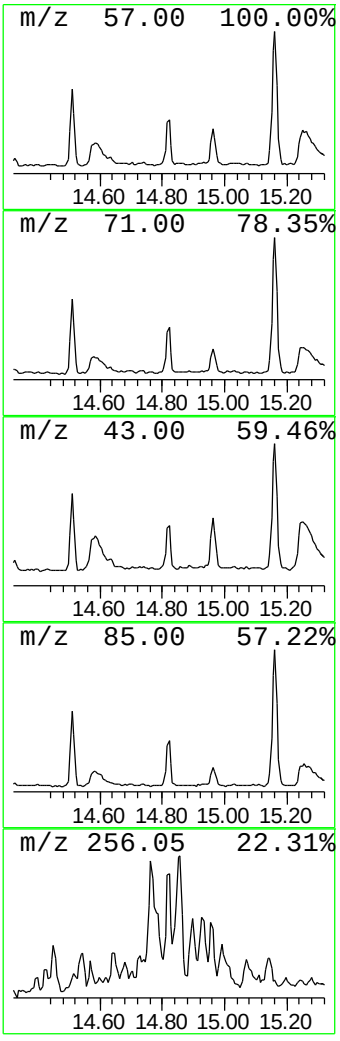
**********

Peak Number 10 Octadecane Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.82 | 3.17 ng | 173272 | Perylene-d12 | 15.52 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octadecane | 254 | C18H38 | 000593-45-3 | 89 |
| 2 | Heneicosane | 296 | C21H44 | 000629-94-7 | 87 |
| 3 | 2-methyloctacosane | 408 | C29H60 | 1000376-72-8 | 87 |
| 4 | Hexacosane | 366 | C26H54 | 000630-01-3 | 83 |
| 5 | Heptadecane | 240 | C17H36 | 000629-78-7 | 83 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071919\
Data File : BF115669.D
Acq On : 19 Jul 2019 11:40
Operator : HP/JU
Sample : K3835-31
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-7(0-2)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071219.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

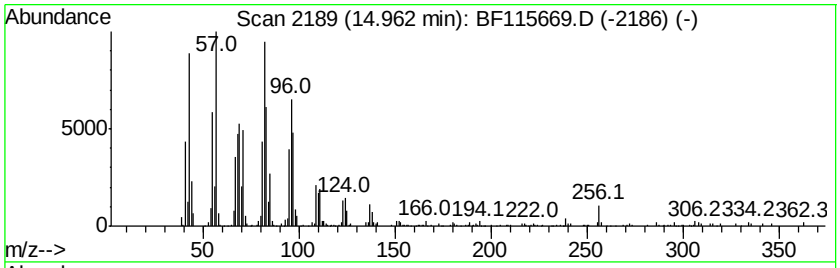
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

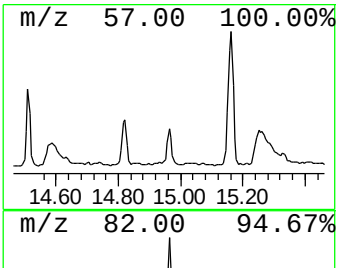
**********

Peak Number 11 Octadecanal Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.96 | 4.97 ng | 271372 | Perylene-d12 | 15.52 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octadecanal | 268 | C18H36O | 000638-66-4 | 94 |
| 2 | Oxirane, hexadecyl- | 268 | C18H36O | 007390-81-0 | 91 |
| 3 | 16-Octadecenal | 266 | C18H34O | 056554-87-1 | 91 |
| 4 | Oxirane, heptadecyl- | 282 | C19H38O | 067860-04-2 | 90 |
| 5 | 16-Heptadecenal | 252 | C17H32O | 1000144-57-9 | 83 |



# Library Search Compound Report

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Data File : BF115669.D
Acq On : 19 Jul 2019 11:40
Operator : HP/JU
Sample : K3835-31
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-7(0-2)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071219.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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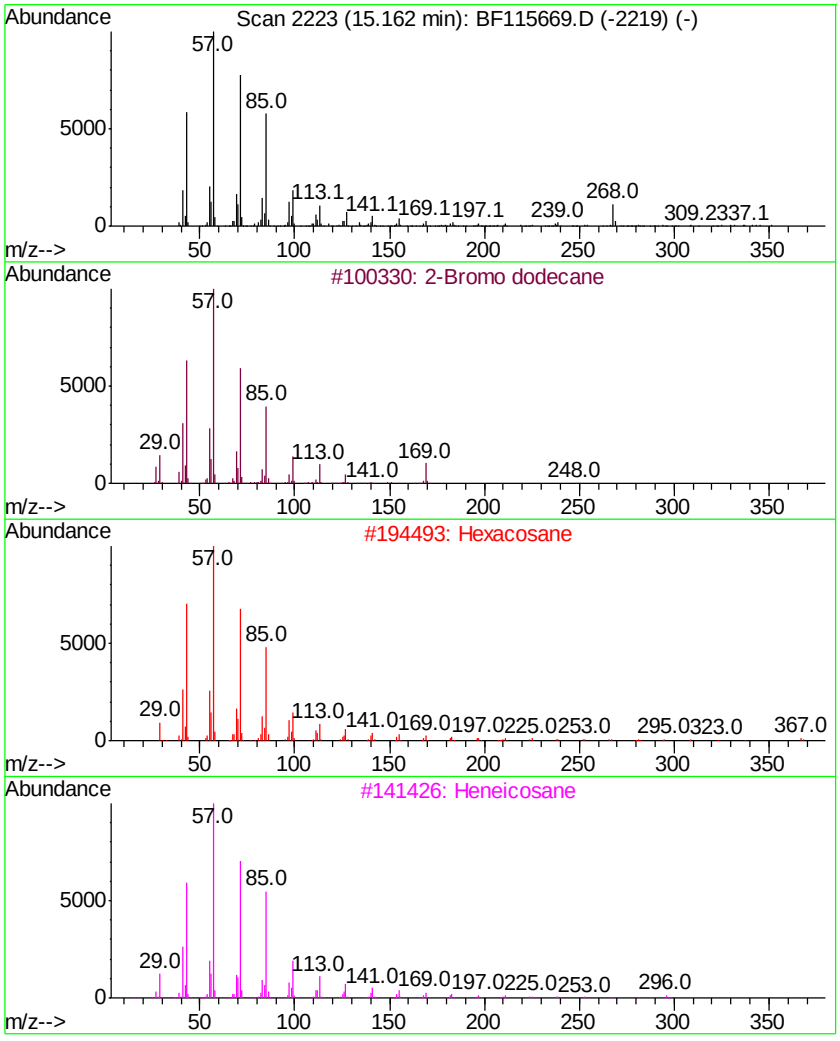
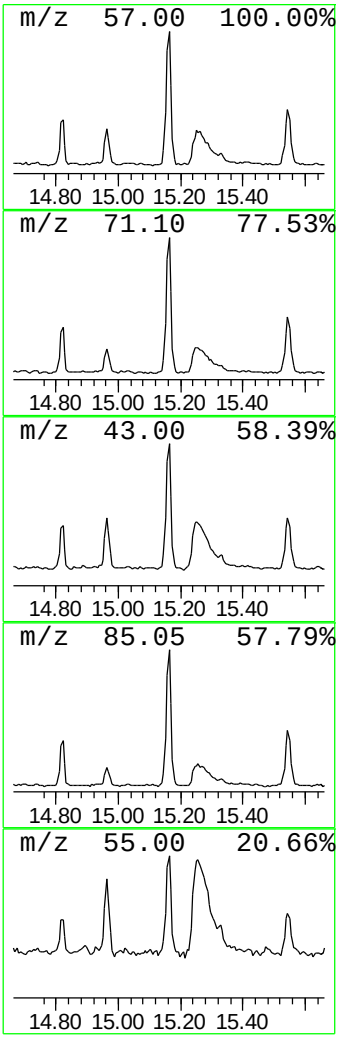
Peak Number 12 2-Bromo dodecane Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.16 | 10.37 ng | 566605 | Perylene-d12 | 15.52 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Bromo dodecane | 248 | C12H25Br | 013187-99-0 | 91 |
| 2 | Hexacosane | 366 | C26H54 | 000630-01-3 | 90 |
| 3 | Heneicosane | 296 | C21H44 | 000629-94-7 | 90 |
| 4 | 2-methyloctacosane | 408 | C29H60 | 1000376-72-8 | 90 |
| 5 | Nonadecane | 268 | C19H40 | 000629-92-5 | 90 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071919\
Data File : BF115669.D
Acq On : 19 Jul 2019 11:40
Operator : HP/JU
Sample : K3835-31
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-7(0-2)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071219.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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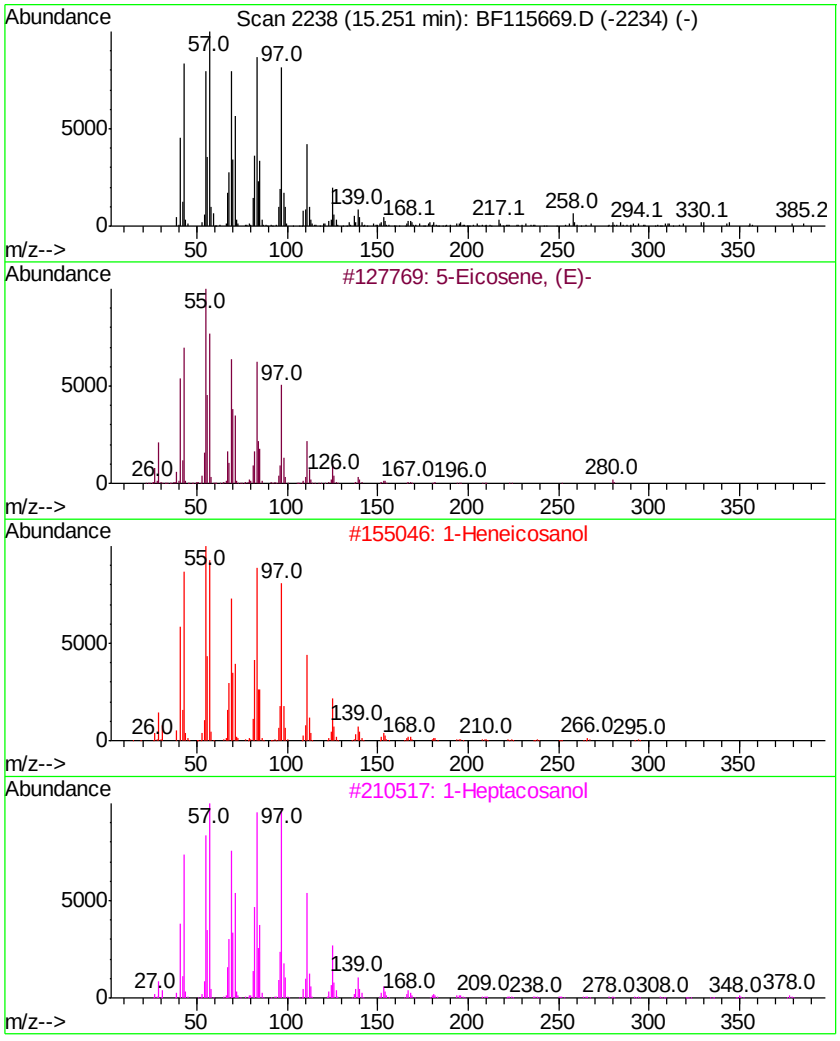
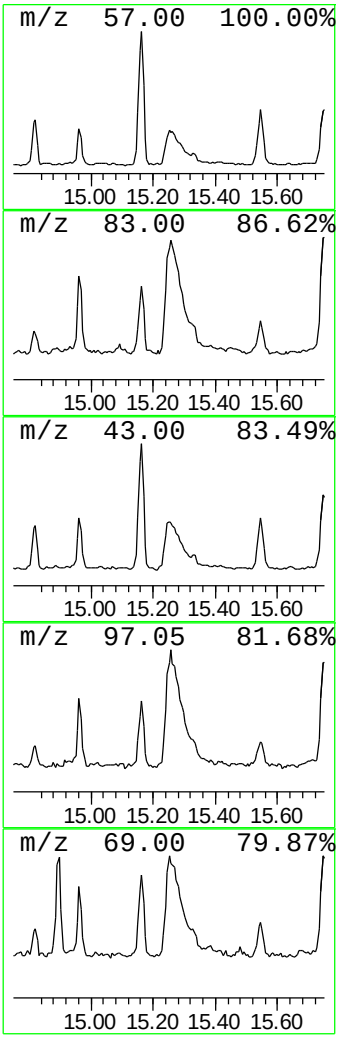
Peak Number 14 5-Eicosene, (E)- Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.25 | 17.93 ng | 979698 | Perylene-d12 | 15.52 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 5-Eicosene, (E)- | 280 | C20H40 | 074685-30-6 | 97 |
| 2 | 1-Heneicosanol | 312 | C21H44O | 015594-90-8 | 95 |
| 3 | 1-Heptacosanol | 396 | C27H56O | 002004-39-9 | 95 |
| 4 | Behenic alcohol | 326 | C22H46O | 000661-19-8 | 95 |
| 5 | Octacosyl acetate | 452 | C30H60O2 | 018206-97-8 | 93 |



# Library Search Compound Report

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Data File : BF115669.D
Acq On : 19 Jul 2019 11:40
Operator : HP/JU
Sample : K3835-31
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-7(0-2)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071219.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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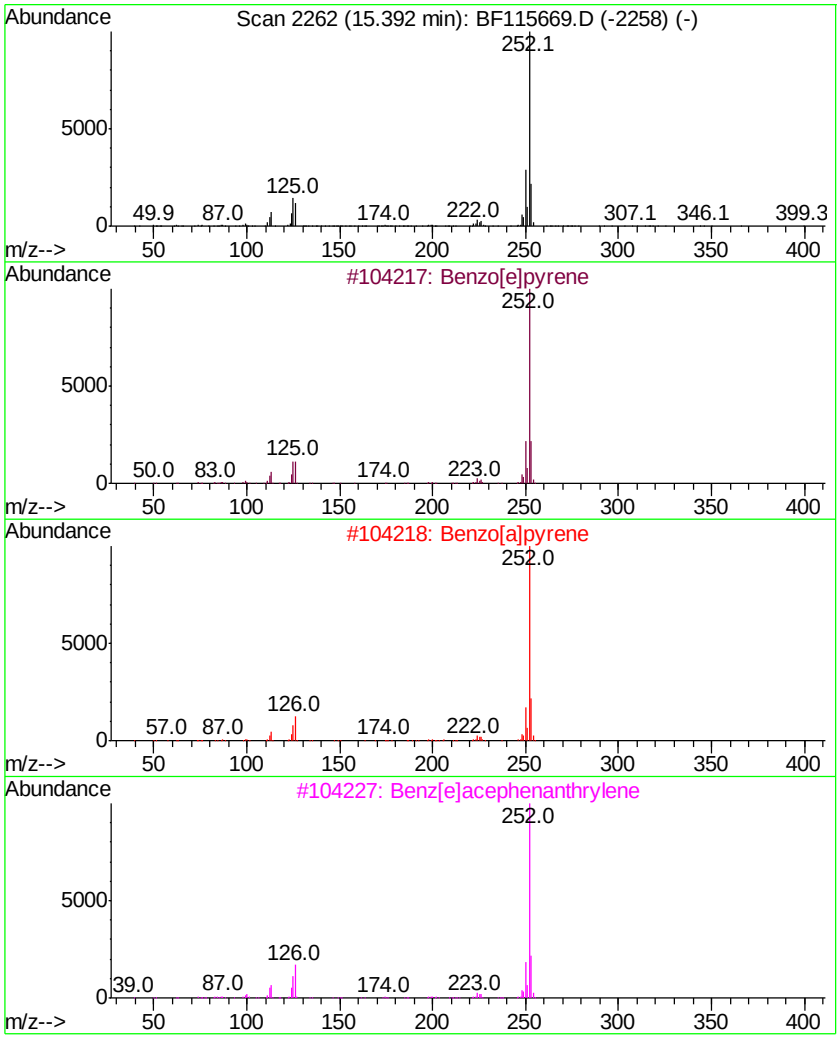
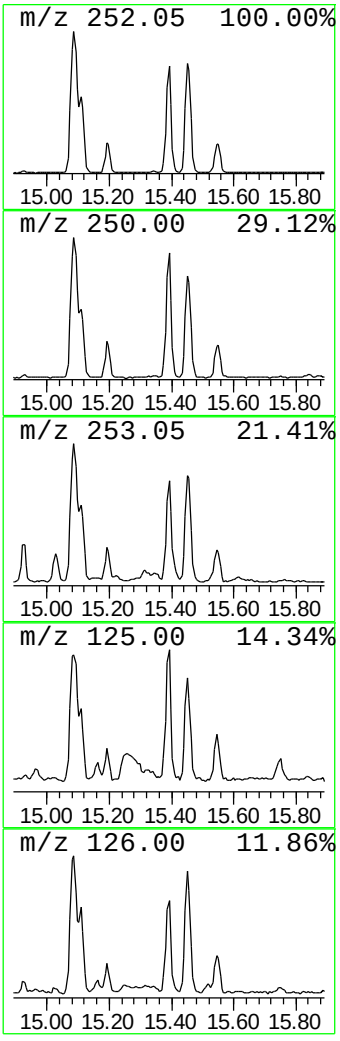
Peak Number 15 Benzo[e]pyrene Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.39 | 9.63 ng | 526124 | Perylene-d12 | 15.52 |

| 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 | 98 |
| 3 | Benz[e]acephenanthrylene | 252 | C20H12 | 000205-99-2 | 94 |
| 4 | Perylene | 252 | C20H12 | 000198-55-0 | 93 |
| 5 | Benzo[k]fluoranthene | 252 | C20H12 | 000207-08-9 | 91 |



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071919\
Data File : BF115669.D
Acq On : 19 Jul 2019 11:40
Operator : HP/JU
Sample : K3835-31
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-7(0-2)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071219.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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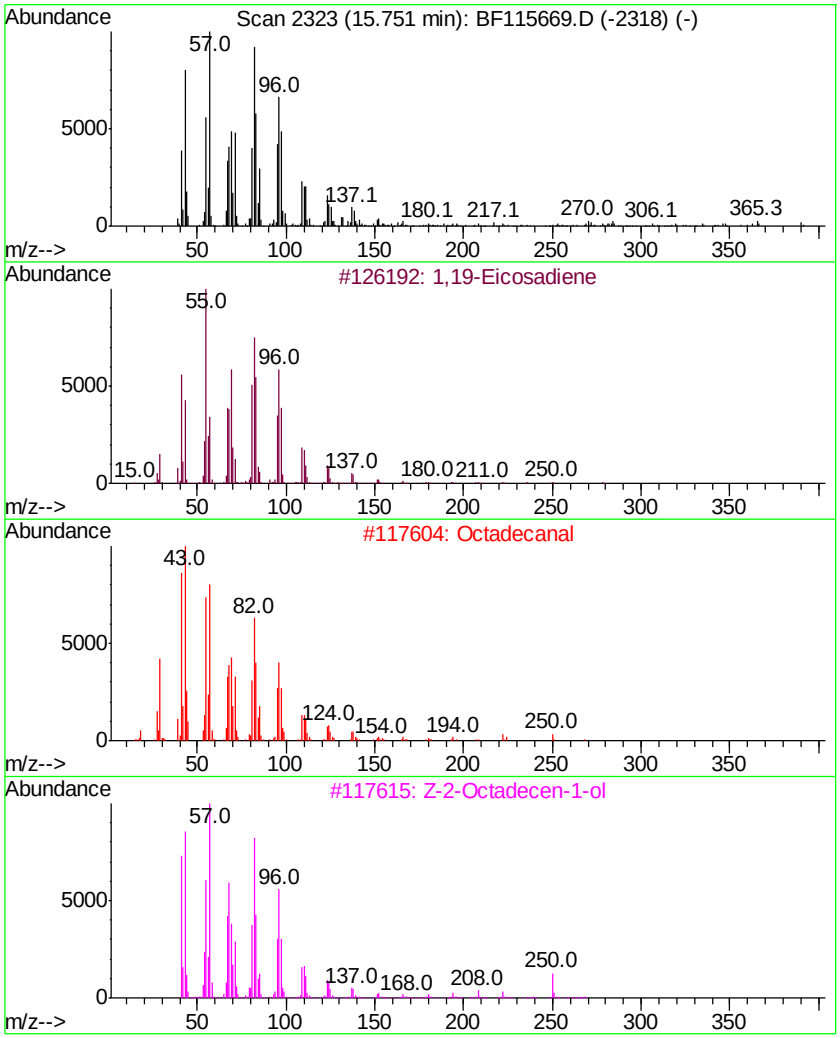
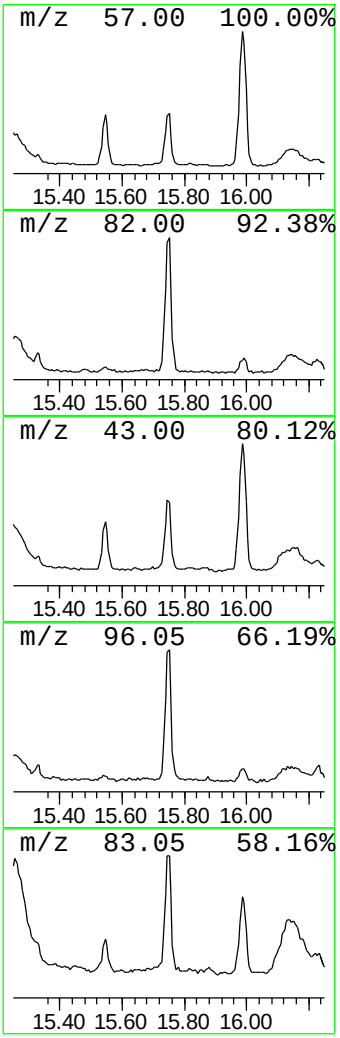
Peak Number 16 1,19-Eicosadiene Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.75 | 12.55 ng | 685639 | Perylene-d12 | 15.52 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,19-Eicosadiene | 278 | C20H38 | 014811-95-1 | 94 |
| 2 | Octadecanal | 268 | C18H36O | 000638-66-4 | 94 |
| 3 | Z-2-Octadecen-1-ol | 268 | C18H36O | 1000131-11-0 | 94 |
| 4 | Oxirane, heptadecyl- | 282 | C19H38O | 067860-04-2 | 93 |
| 5 | Oxirane, hexadecyl- | 268 | C18H36O | 007390-81-0 | 93 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071919\
Data File : BF115669.D
Acq On : 19 Jul 2019 11:40
Operator : HP/JU
Sample : K3835-31
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-7(0-2)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071219.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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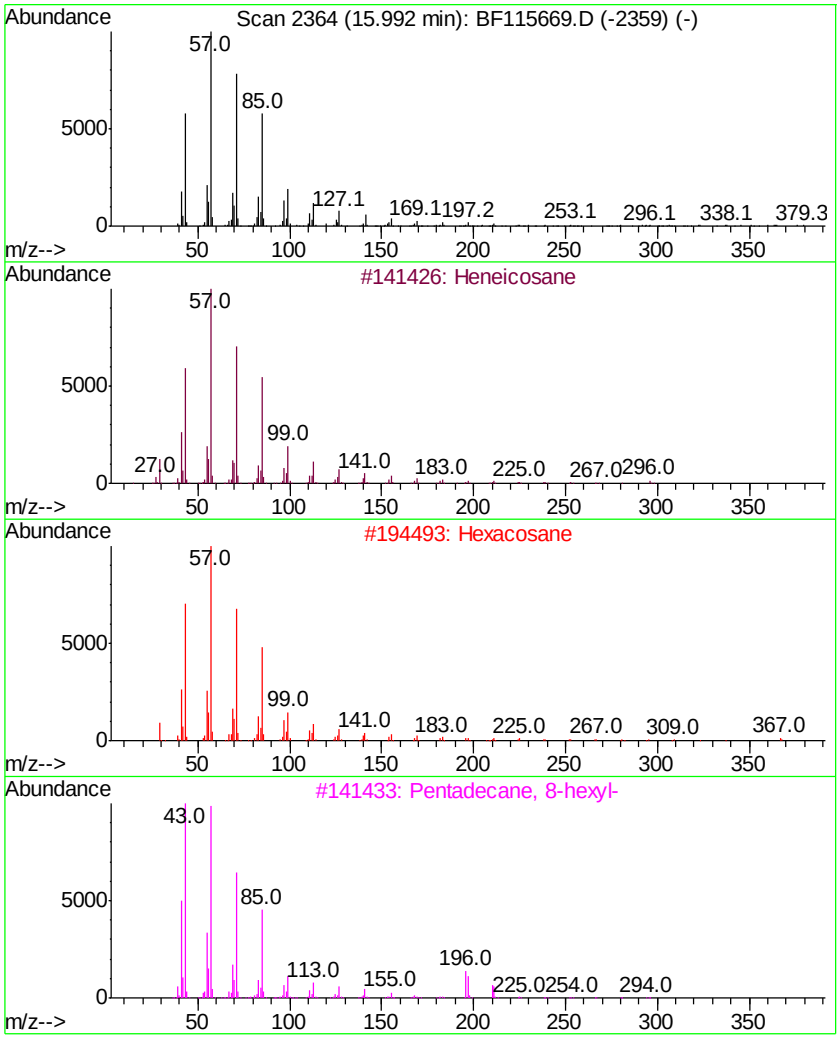
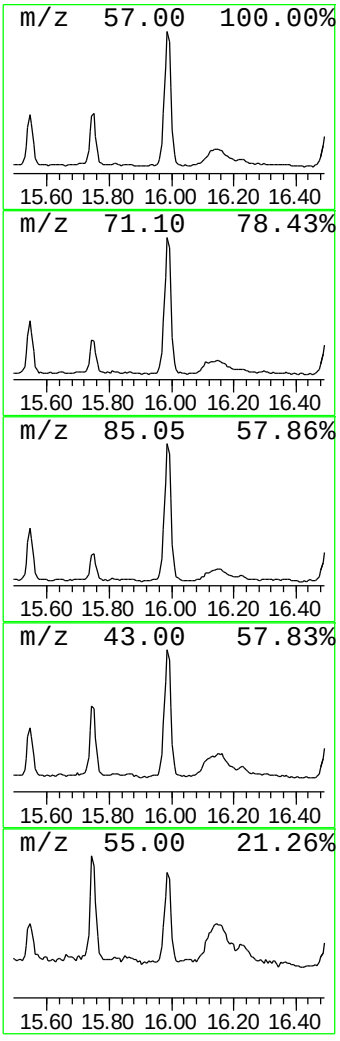
Peak Number 17 Heneicosane Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.99 | 14.66 ng | 801041 | Perylene-d12 | 15.52 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heneicosane | 296 | C21H44 | 000629-94-7 | 91 |
| 2 | Hexacosane | 366 | C26H54 | 000630-01-3 | 91 |
| 3 | Pentadecane, 8-hexyl- | 296 | C21H44 | 013475-75-7 | 91 |
| 4 | Octacosane | 394 | C28H58 | 000630-02-4 | 91 |
| 5 | Tetracosane | 338 | C24H50 | 000646-31-1 | 91 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071919\
Data File : BF115669.D
Acq On : 19 Jul 2019 11:40
Operator : HP/JU
Sample : K3835-31
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-7(0-2)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071219.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

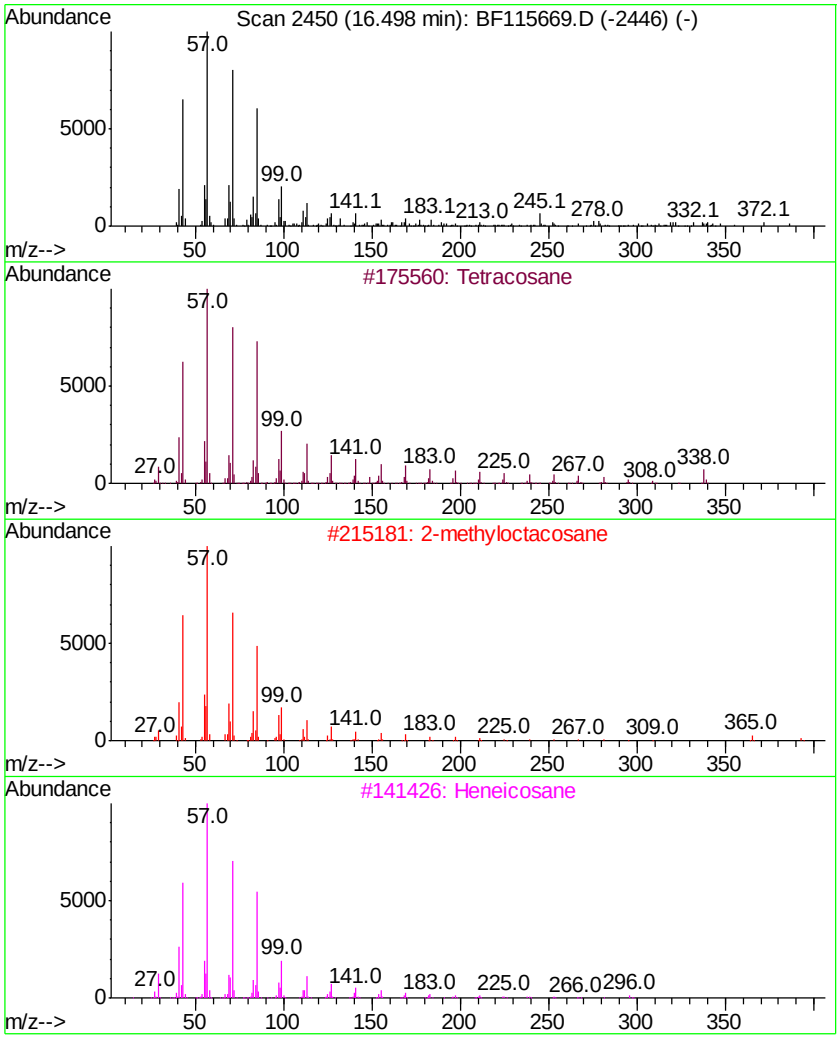
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

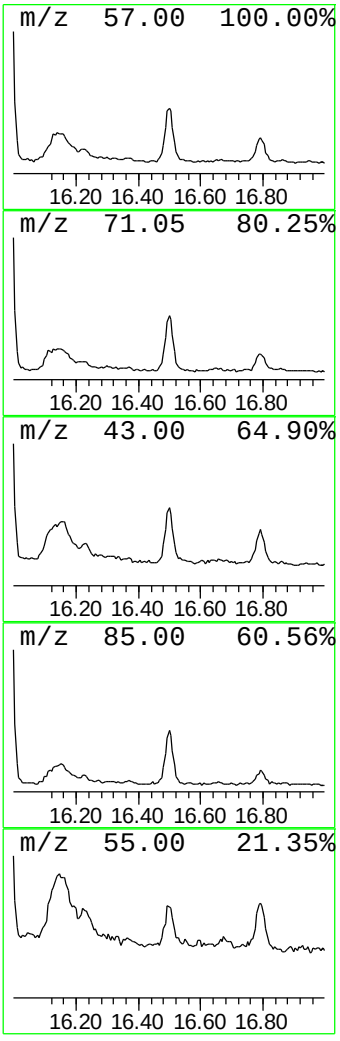
**********

Peak Number 18 Tetracosane Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.50 | 4.53 ng | 247535 | Perylene-d12 | 15.52 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Tetracosane | 338 | C24H50 | 000646-31-1 | 93 |
| 2 | 2-methyloctacosane | 408 | C29H60 | 1000376-72-8 | 90 |
| 3 | Heneicosane | 296 | C21H44 | 000629-94-7 | 90 |
| 4 | Hexacosane | 366 | C26H54 | 000630-01-3 | 87 |
| 5 | Octacosane | 394 | C28H58 | 000630-02-4 | 86 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071919\
Data File : BF115669.D
Acq On : 19 Jul 2019 11:40
Operator : HP/JU
Sample : K3835-31
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-7(0-2)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071219.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

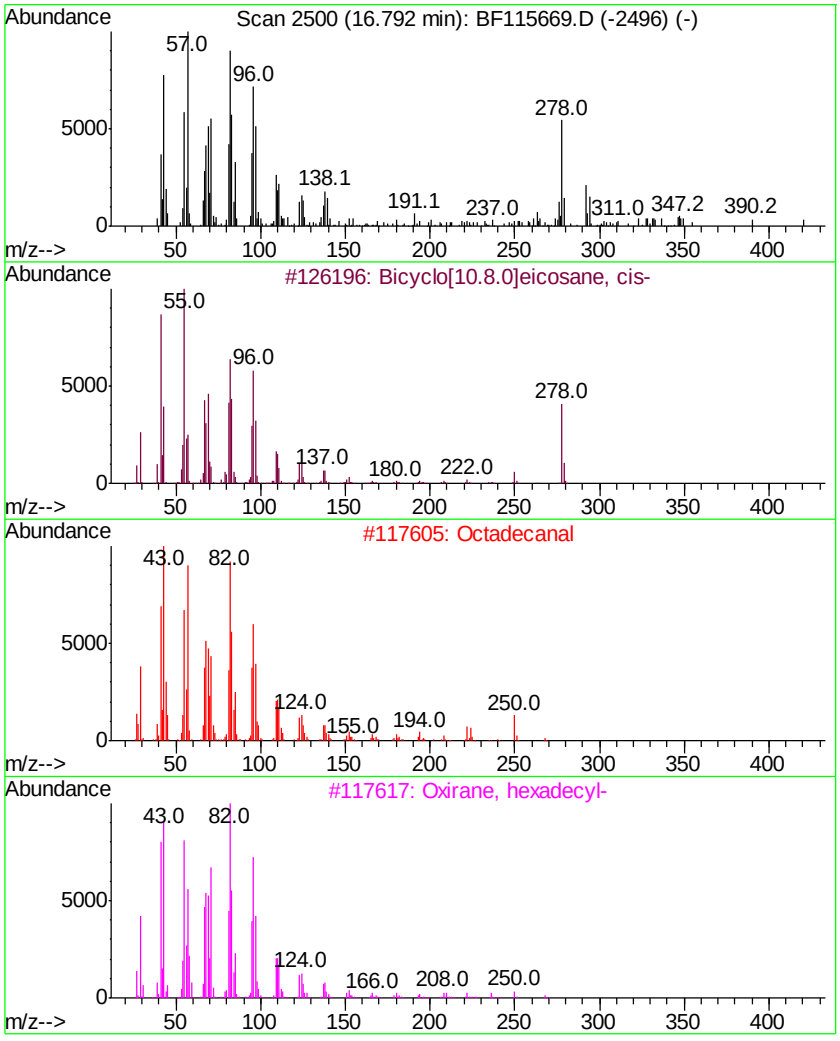
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

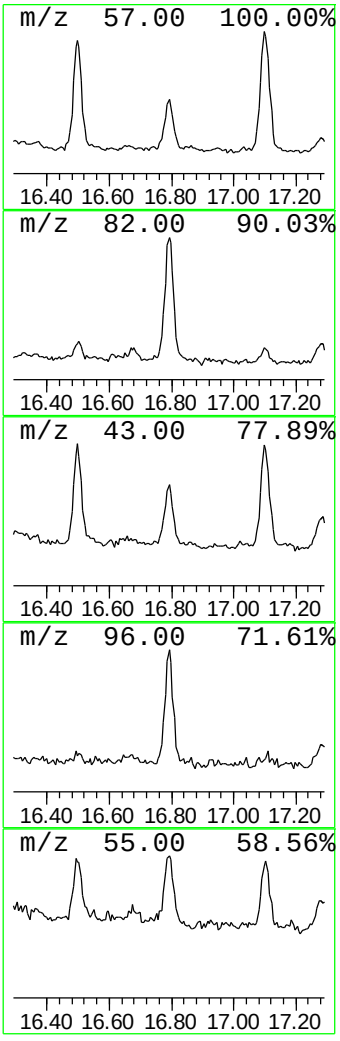
**********

Peak Number 19 Bicyclo[10.8.0]eicosane, cis- Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.79 | 4.23 ng | 231089 | Perylene-d12 | 15.52 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Bicyclo[10.8.0]eicosane, cis- | 278 | C20H38 | 1000155-82-2 | 94 |
| 2 | Octadecanal | 268 | C18H36O | 000638-66-4 | 64 |
| 3 | Oxirane, hexadecyl- | 268 | C18H36O | 007390-81-0 | 64 |
| 4 | Tetradecanal | 212 | C14H28O | 000124-25-4 | 58 |
| 5 | 17-Octadecenal | 266 | C18H34O | 056554-86-0 | 49 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF071919\
Data File : BF115669.D
Acq On : 19 Jul 2019 11:40
Operator : HP/JU
Sample : K3835-31
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-7(0-2)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071219.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 |
| Butane, 2-methoxy... | 2.21 | 14.2 | ng | 903820 | 1 | 6.88 | 1271510 | 20.0 |
| unknown6.65 | 6.65 | 58.0 | ng | 3687390 | 1 | 6.88 | 1271510 | 20.0 |
| n-Hexadecanoic acid | 11.93 | 13.4 | ng | 1138650 | 4 | 11.40 | 1702180 | 20.0 |
| Octadecanoic acid | 12.71 | 5.2 | ng | 444716 | 4 | 11.40 | 1702180 | 20.0 |
| 11H-Benzo[a]fluor... | 13.89 | 2.6 | ng | 245680 | 5 | 14.04 | 1890660 | 20.0 |
| Cyclohexadecane | 13.94 | 8.3 | ng | 779637 | 5 | 14.04 | 1890660 | 20.0 |
| Tetradecane, 2,6,... | 14.51 | 3.2 | ng | 303876 | 5 | 14.04 | 1890660 | 20.0 |
| Cyclohexadecane, ... | 14.57 | 6.9 | ng | 656070 | 5 | 14.04 | 1890660 | 20.0 |
| Octadecane | 14.82 | 3.2 | ng | 173272 | 6 | 15.52 | 1092840 | 20.0 |
| Octadecanal | 14.96 | 5.0 | ng | 271372 | 6 | 15.52 | 1092840 | 20.0 |
| 2-Bromo dodecane | 15.16 | 10.4 | ng | 566605 | 6 | 15.52 | 1092840 | 20.0 |
| 5-Eicosene, (E)- | 15.25 | 17.9 | ng | 979698 | 6 | 15.52 | 1092840 | 20.0 |
| Benzo[e]pyrene | 15.39 | 9.6 | ng | 526124 | 6 | 15.52 | 1092840 | 20.0 |
| 1,19-Eicosadiene | 15.75 | 12.6 | ng | 685639 | 6 | 15.52 | 1092840 | 20.0 |
| Heneicosane | 15.99 | 14.7 | ng | 801041 | 6 | 15.52 | 1092840 | 20.0 |
| Tetracosane | 16.50 | 4.5 | ng | 247535 | 6 | 15.52 | 1092840 | 20.0 |
| Bicyclo[10.8.0]ei... | 16.79 | 4.2 | ng | 231089 | 6 | 15.52 | 1092840 | 20.0 |