LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF032618\
Data File : BF103935.D
Acq On : 26 Mar 2018 19:55
Operator : JU/SJ
Sample : J1758-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PL-02-032318-A

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-BF031518.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 | 2.322 | 33 | 40 | 46 | rBV | 106509 | 143916 | 4.58% | 0.344% |
| 2 | 5.216 | 528 | 532 | 542 | rVB | 101933 | 137024 | 4.36% | 0.328% |
| 3 | 5.598 | 592 | 597 | 600 | rBV | 2793838 | 2812940 | 89.49% | 6.730% |
| 4 | 6.598 | 761 | 767 | 782 | rVB | 2637543 | 2866155 | 91.18% | 6.857% |
| 5 | 6.745 | 787 | 792 | 795 | rBV | 2924633 | 2914426 | 92.72% | 6.972% |
| 6 | 6.969 | 827 | 830 | 834 | rBV | 903727 | 822477 | 26.17% | 1.968% |
| 7 | 7.128 | 853 | 857 | 861 | rBV | 2576889 | 2252827 | 71.67% | 5.390% |
| 8 | 7.534 | 921 | 926 | 929 | rBV | 1878019 | 1811074 | 57.62% | 4.333% |
| 9 | 8.222 | 1040 | 1043 | 1045 | rBV | 55919 | 53324 | 1.70% | 0.128% |
| 10 | 8.257 | 1045 | 1049 | 1054 | rVV | 1146006 | 1163043 | 37.00% | 2.782% |
| 11 | 8.298 | 1054 | 1056 | 1060 | rVB2 | 41506 | 35387 | 1.13% | 0.085% |
| 12 | 8.534 | 1092 | 1096 | 1100 | rVB4 | 30136 | 35091 | 1.12% | 0.084% |
| 13 | 8.751 | 1129 | 1133 | 1136 | rBV | 40078 | 37332 | 1.19% | 0.089% |
| 14 | 8.828 | 1141 | 1146 | 1151 | rVV | 87211 | 79179 | 2.52% | 0.189% |
| 15 | 8.963 | 1166 | 1169 | 1172 | rVB | 51190 | 46067 | 1.47% | 0.110% |
| 16 | 9.069 | 1181 | 1187 | 1190 | rBV2 | 79833 | 86132 | 2.74% | 0.206% |
| 17 | 9.328 | 1226 | 1231 | 1234 | rBV | 3574588 | 3143300 | 100.00% | 7.520% |
| 18 | 9.392 | 1239 | 1242 | 1246 | rVB | 107866 | 91572 | 2.91% | 0.219% |
| 19 | 9.598 | 1272 | 1277 | 1280 | rBV3 | 40315 | 61214 | 1.95% | 0.146% |
| 20 | 9.669 | 1280 | 1289 | 1291 | rBV4 | 69428 | 100603 | 3.20% | 0.241% |
| 21 | 9.716 | 1294 | 1297 | 1305 | rVB | 228936 | 238050 | 7.57% | 0.570% |
| 22 | 9.786 | 1305 | 1309 | 1310 | rBV2 | 38895 | 45755 | 1.46% | 0.109% |
| 23 | 9.869 | 1320 | 1323 | 1327 | rBV | 41784 | 43441 | 1.38% | 0.104% |
| 24 | 9.928 | 1329 | 1333 | 1336 | rVB | 182423 | 156673 | 4.98% | 0.375% |
| 25 | 10.016 | 1344 | 1348 | 1351 | rBV | 1238331 | 1188535 | 37.81% | 2.843% |
| 26 | 10.045 | 1351 | 1353 | 1357 | rVB | 124117 | 93259 | 2.97% | 0.223% |
| 27 | 10.163 | 1369 | 1373 | 1375 | rBV4 | 28043 | 43284 | 1.38% | 0.104% |
| 28 | 10.216 | 1379 | 1382 | 1385 | rVV2 | 95563 | 90989 | 2.89% | 0.218% |
| 29 | 10.245 | 1385 | 1387 | 1392 | rVV3 | 57742 | 61051 | 1.94% | 0.146% |
| 30 | 10.328 | 1397 | 1401 | 1403 | rBV2 | 33992 | 40560 | 1.29% | 0.097% |
| 31 | 10.428 | 1411 | 1418 | 1421 | rBV | 250885 | 239695 | 7.63% | 0.573% |
| 32 | 10.563 | 1437 | 1441 | 1448 | rVB | 180156 | 168259 | 5.35% | 0.403% |
| 33 | 10.645 | 1450 | 1455 | 1458 | rBV3 | 89728 | 112123 | 3.57% | 0.268% |
| 34 | 10.804 | 1478 | 1482 | 1486 | rBV | 1937042 | 1917204 | 60.99% | 4.587% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF032618\
Data File : BF103935.D
Acq On : 26 Mar 2018 19:55
Operator : JU/SJ
Sample : J1758-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PL-02-032318-A

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-BF031518.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 10.898 | 1495 | 1498 | 1508 | rVB | 202103 | 264392 | 8.41% | 0.633% |
| 36 | 11.098 | 1528 | 1532 | 1533 | rBV2 | 36003 | 44408 | 1.41% | 0.106% |
| 37 | 11.186 | 1545 | 1547 | 1551 | rVB2 | 37211 | 40801 | 1.30% | 0.098% |
| 38 | 11.222 | 1551 | 1553 | 1559 | rBV7 | 26567 | 54173 | 1.72% | 0.130% |
| 39 | 11.351 | 1572 | 1575 | 1577 | rBV | 152965 | 123769 | 3.94% | 0.296% |
| 40 | 11.380 | 1577 | 1580 | 1582 | rVV2 | 57850 | 60870 | 1.94% | 0.146% |
| 41 | 11.404 | 1582 | 1584 | 1586 | rVB | 66005 | 52288 | 1.66% | 0.125% |
| 42 | 11.510 | 1597 | 1602 | 1604 | rBV | 1188297 | 1248803 | 39.73% | 2.988% |
| 43 | 11.528 | 1604 | 1605 | 1609 | rVV | 843104 | 676055 | 21.51% | 1.617% |
| 44 | 11.580 | 1609 | 1614 | 1618 | rVV | 240440 | 211928 | 6.74% | 0.507% |
| 45 | 11.733 | 1637 | 1640 | 1644 | rVB | 47090 | 39539 | 1.26% | 0.095% |
| 46 | 11.775 | 1644 | 1647 | 1650 | rBV | 80731 | 65372 | 2.08% | 0.156% |
| 47 | 11.880 | 1661 | 1665 | 1668 | rVB | 1068133 | 842618 | 26.81% | 2.016% |
| 48 | 12.010 | 1684 | 1687 | 1689 | rBV2 | 155768 | 166682 | 5.30% | 0.399% |
| 49 | 12.033 | 1689 | 1691 | 1696 | rVB | 150053 | 142772 | 4.54% | 0.342% |
| 50 | 12.086 | 1696 | 1700 | 1703 | rBV | 53368 | 55030 | 1.75% | 0.132% |
| 51 | 12.122 | 1703 | 1706 | 1708 | rVV | 188216 | 188012 | 5.98% | 0.450% |
| 52 | 12.139 | 1708 | 1709 | 1713 | rVB | 65606 | 53947 | 1.72% | 0.129% |
| 53 | 12.186 | 1714 | 1717 | 1720 | rBV2 | 82326 | 68724 | 2.19% | 0.164% |
| 54 | 12.304 | 1734 | 1737 | 1739 | rVV | 71662 | 53165 | 1.69% | 0.127% |
| 55 | 12.333 | 1739 | 1742 | 1747 | rVB2 | 40039 | 42793 | 1.36% | 0.102% |
| 56 | 12.574 | 1777 | 1783 | 1784 | rBV | 2849737 | 2835388 | 90.20% | 6.783% |
| 57 | 12.592 | 1784 | 1786 | 1792 | rVB2 | 2374024 | 2181302 | 69.40% | 5.219% |
| 58 | 12.674 | 1797 | 1800 | 1805 | rVB | 439625 | 369499 | 11.76% | 0.884% |
| 59 | 12.722 | 1805 | 1808 | 1812 | rBV | 820555 | 786031 | 25.01% | 1.880% |
| 60 | 12.910 | 1837 | 1840 | 1842 | rBV3 | 57307 | 52618 | 1.67% | 0.126% |
| 61 | 12.957 | 1842 | 1848 | 1853 | rVB | 767294 | 832305 | 26.48% | 1.991% |
| 62 | 13.004 | 1853 | 1856 | 1860 | rVB2 | 48598 | 51950 | 1.65% | 0.124% |
| 63 | 13.092 | 1864 | 1871 | 1874 | rBV | 2682710 | 2558246 | 81.39% | 6.120% |
| 64 | 13.169 | 1880 | 1884 | 1885 | rBV2 | 45930 | 55622 | 1.77% | 0.133% |
| 65 | 13.239 | 1893 | 1896 | 1898 | rBV2 | 82675 | 85401 | 2.72% | 0.204% |
| 66 | 13.280 | 1900 | 1903 | 1906 | rVB | 128717 | 124578 | 3.96% | 0.298% |
| 67 | 13.351 | 1912 | 1915 | 1917 | rVB | 119264 | 100626 | 3.20% | 0.241% |
| 68 | 13.386 | 1917 | 1921 | 1929 | rBV4 | 74136 | 150838 | 4.80% | 0.361% |
| 69 | 13.510 | 1940 | 1942 | 1945 | rBV | 41209 | 41804 | 1.33% | 0.100% |
| 70 | 13.645 | 1962 | 1965 | 1968 | rBV2 | 45171 | 52690 | 1.68% | 0.126% |
| 71 | 13.974 | 2016 | 2021 | 2026 | rBV4 | 331894 | 399562 | 12.71% | 0.956% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF032618\
Data File : BF103935.D
Acq On : 26 Mar 2018 19:55
Operator : JU/SJ
Sample : J1758-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PL-02-032318-A

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-BF031518.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 14.074 | 2035 | 2038 | 2041 | rBV3 | 49125 | 60377 | 1.92% | 0.144% |
| 73 | 14.157 | 2047 | 2052 | 2055 | rBV2 | 1029534 | 1217512 | 38.73% | 2.913% |
| 74 | 14.186 | 2055 | 2057 | 2064 | rVB | 271041 | 251498 | 8.00% | 0.602% |
| 75 | 14.269 | 2068 | 2071 | 2073 | rBV | 48368 | 44999 | 1.43% | 0.108% |
| 76 | 14.298 | 2073 | 2076 | 2082 | rBV4 | 60444 | 83745 | 2.66% | 0.200% |
| 77 | 14.610 | 2127 | 2129 | 2134 | rVB4 | 43328 | 48995 | 1.56% | 0.117% |
| 78 | 14.704 | 2143 | 2145 | 2150 | rVB3 | 45798 | 44180 | 1.41% | 0.106% |
| 79 | 15.016 | 2195 | 2198 | 2202 | rVB | 102621 | 106811 | 3.40% | 0.256% |
| 80 | 15.245 | 2233 | 2237 | 2244 | rBV | 183844 | 381602 | 12.14% | 0.913% |
| 81 | 15.568 | 2289 | 2292 | 2299 | rVB | 110146 | 153594 | 4.89% | 0.367% |
| 82 | 15.633 | 2299 | 2303 | 2309 | rBV | 186246 | 267134 | 8.50% | 0.639% |
| 83 | 15.704 | 2310 | 2315 | 2319 | rBV | 630347 | 832100 | 26.47% | 1.991% |

Sum of corrected areas: 41799109

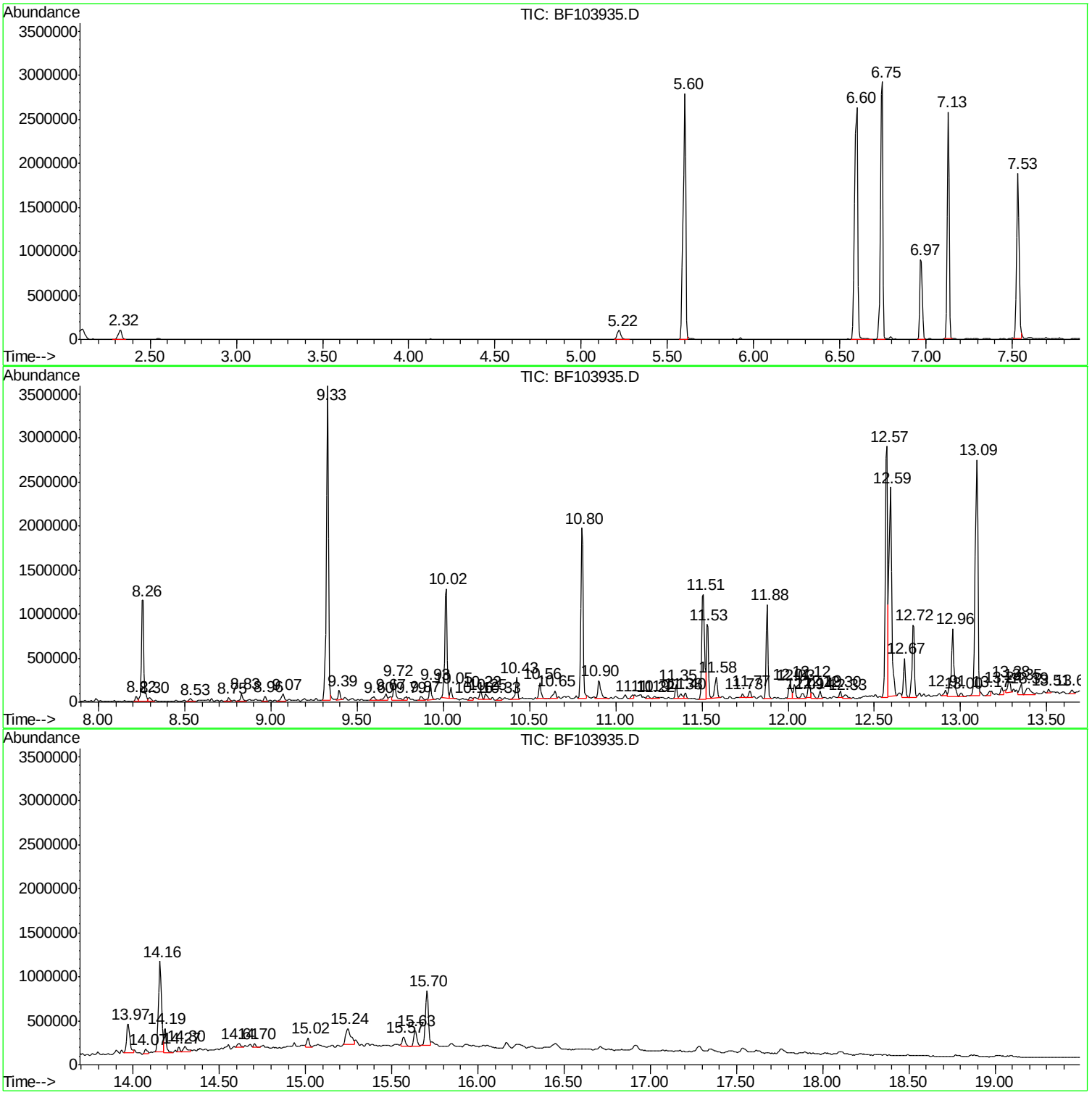
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA F\DATA\BF032618\
Data File : BF103935.D
Acq On : 26 Mar 2018 19:55
Operator : JU/SJ
Sample : J1758-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PL-02-032318-A

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\HPCHEM1\BNA F\DATA\BF032618\
Data File : BF103935.D
Acq On : 26 Mar 2018 19:55
Operator : JU/SJ
Sample : J1758-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PL-02-032318-A

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

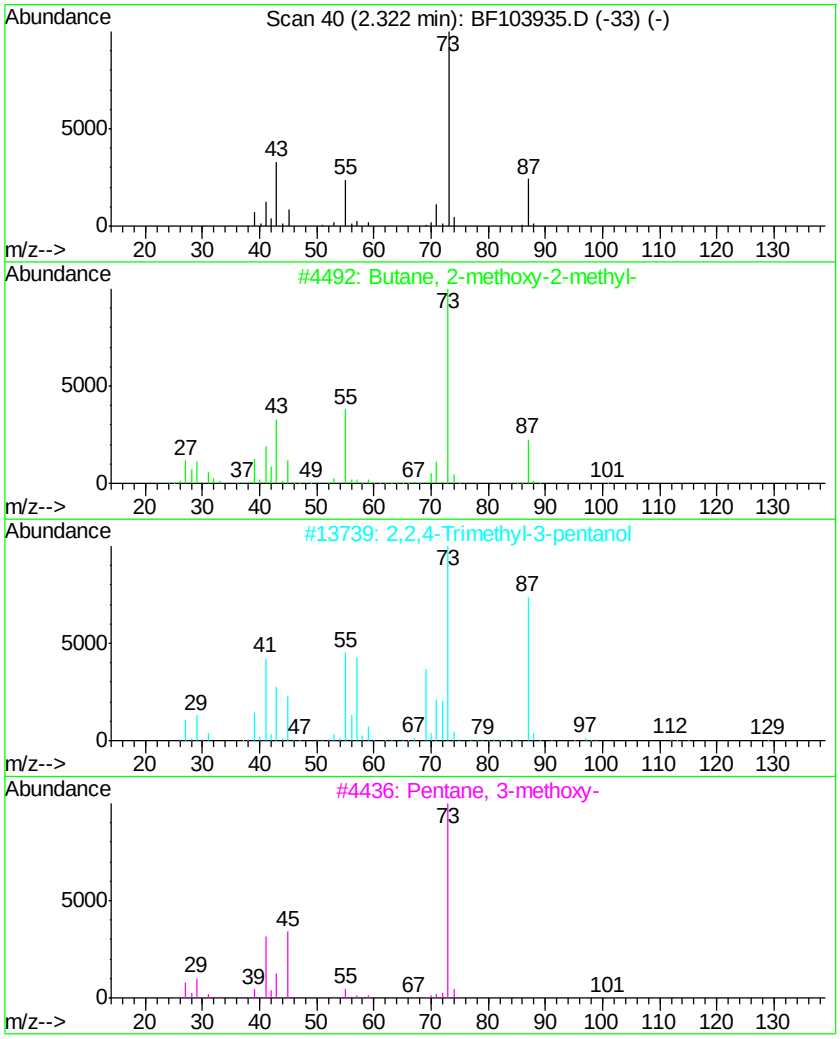
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

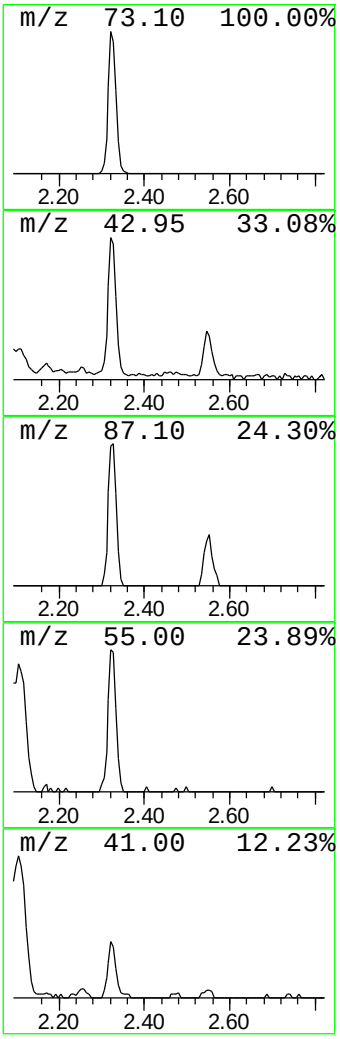
**********

Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 2.32 | 3.50 ng | 143916 | 1,4-Dichlorobenzene-d4 | 6.97 |

| 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 | Pentane, 3-methoxy- | 102 | C6H14O | 036839-67-5 | 23 |
| 4 | Silane, tetramethyl- | 88 | C4H12Si | 000075-76-3 | 17 |
| 5 | Borane, dimethoxy- | 74 | C2H7BO2 | 004542-61-4 | 9 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF032618\
Data File : BF103935.D
Acq On : 26 Mar 2018 19:55
Operator : JU/SJ
Sample : J1758-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PL-02-032318-A

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

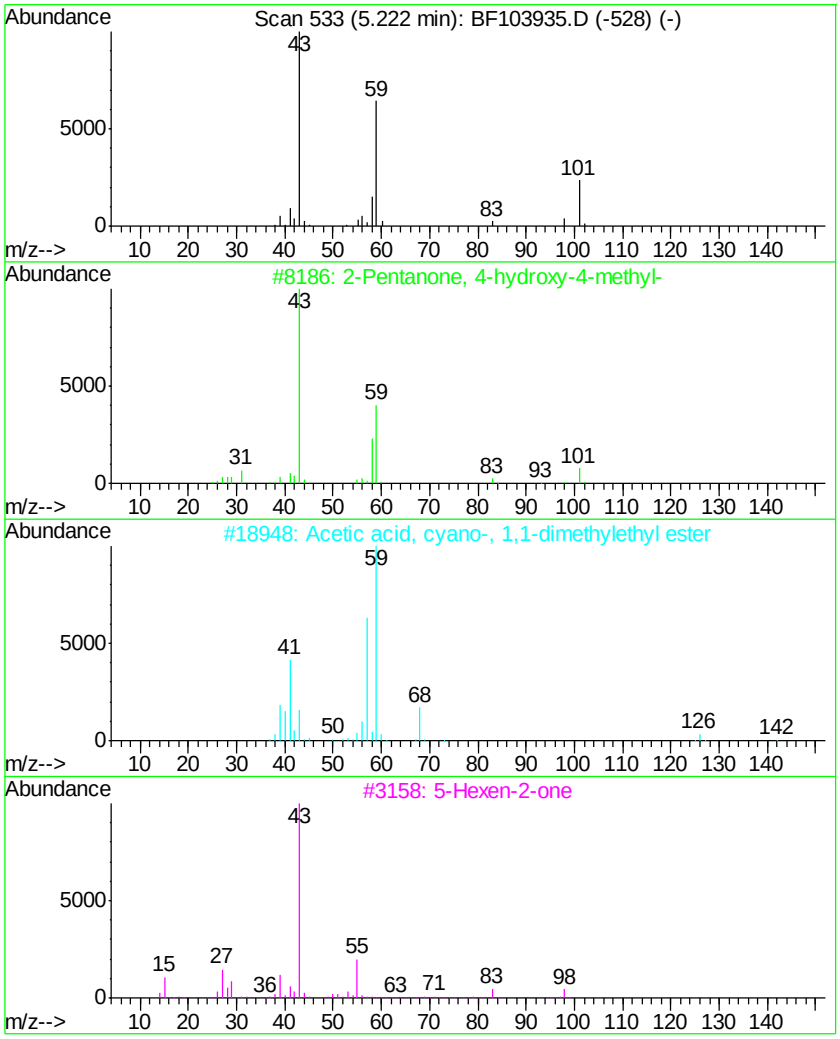
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

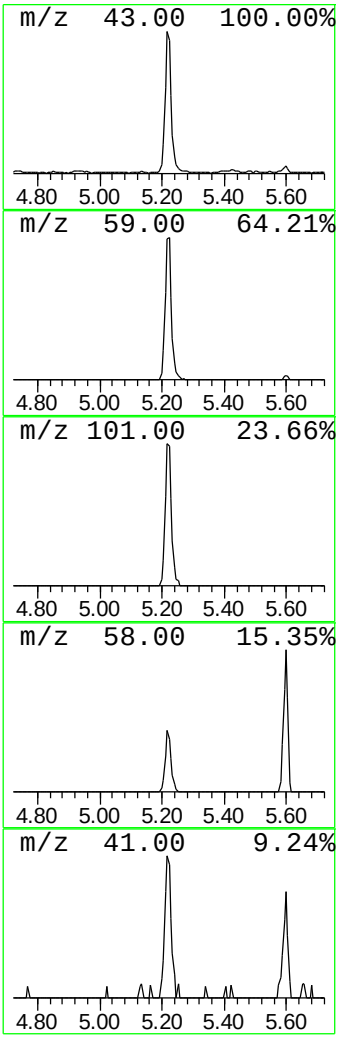
**********

Peak Number 2 unknown5.22 Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.22 | 3.33 ng | 137024 | 1,4-Dichlorobenzene-d4 | 6.97 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 40 |
| 2 | Acetic acid, cyano-, 1,1-dimethy... | 141 | C7H11NO2 | 001116-98-9 | 17 |
| 3 | 5-Hexen-2-one | 98 | C6H10O | 000109-49-9 | 9 |
| 4 | (+-)-4-Amino-4,5-dihydro-2(3H)-f... | 101 | C4H7NO2 | 016504-58-8 | 9 |
| 5 | 4-Penten-2-one, 4-methyl- | 98 | C6H10O | 003744-02-3 | 9 |



Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF032618\
Data File : BF103935.D
Acq On : 26 Mar 2018 19:55
Operator : JU/SJ
Sample : J1758-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PL-02-032318-A

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

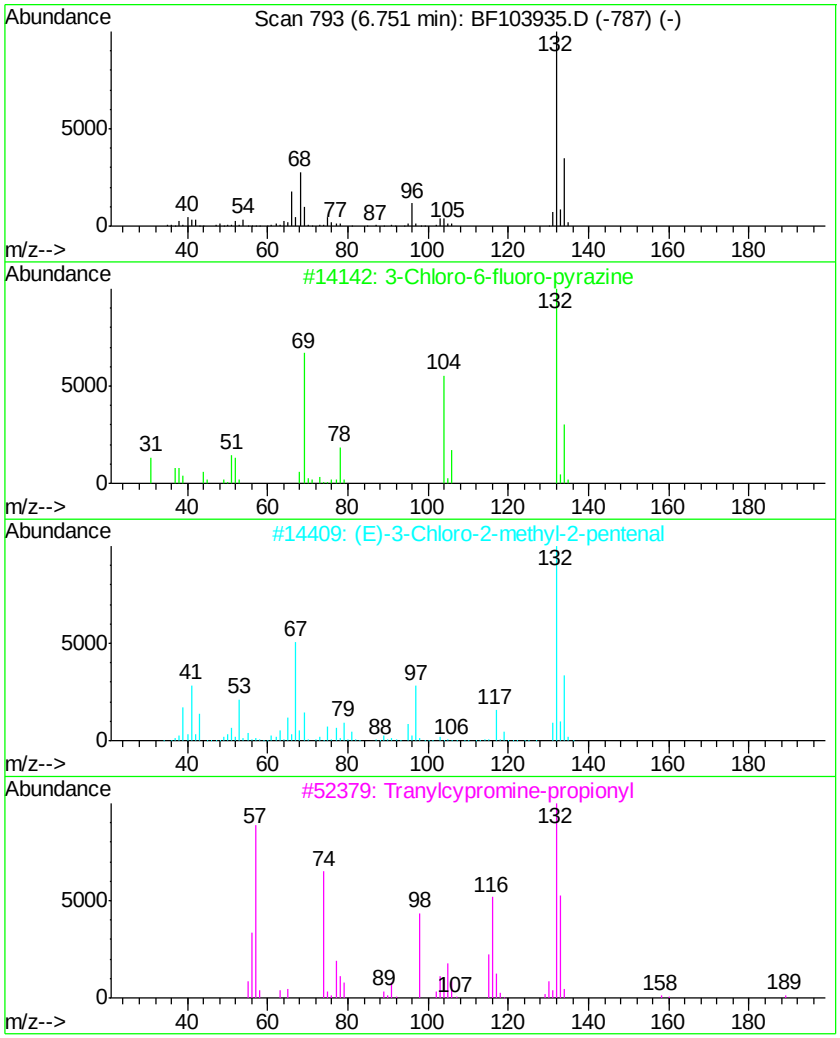
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

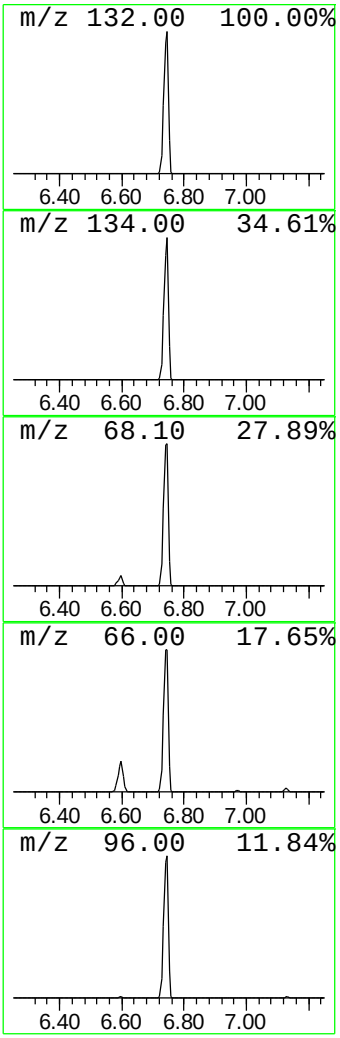
**********

Peak Number 3 unknown6.75 Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.75 | 70.87 ng | 2914430 | 1,4-Dichlorobenzene-d4 | 6.97 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Chloro-6-fluoro-pyrazine | 132 | C4H2ClFN2 | 1000146-10-7 | 25 |
| 2 | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO | 031357-76-3 | 17 |
| 3 | Tranylcypromine-propionyl | 189 | C12H15NO | 1000123-86-3 | 12 |
| 4 | 5-Aminoindole | 132 | C8H8N2 | 005192-03-0 | 12 |
| 5 | 1H-Benzimidazole, 2-methyl- | 132 | C8H8N2 | 000615-15-6 | 10 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF032618\
Data File : BF103935.D
Acq On : 26 Mar 2018 19:55
Operator : JU/SJ
Sample : J1758-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PL-02-032318-A

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

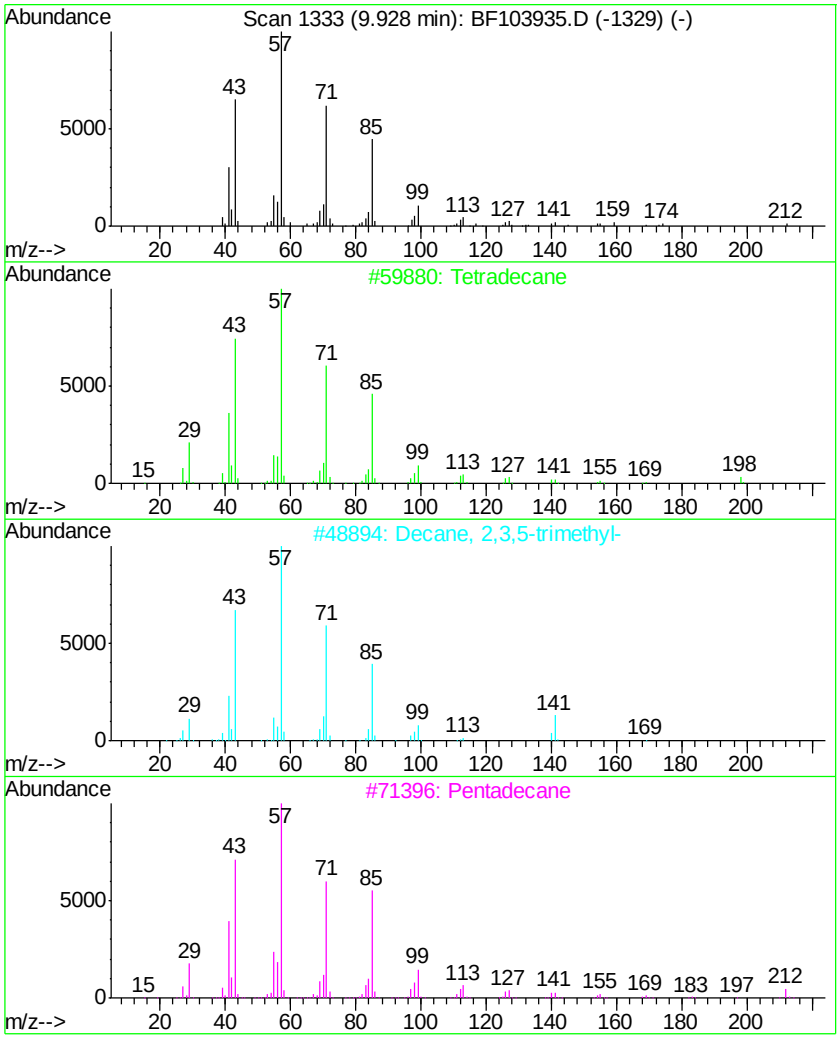
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

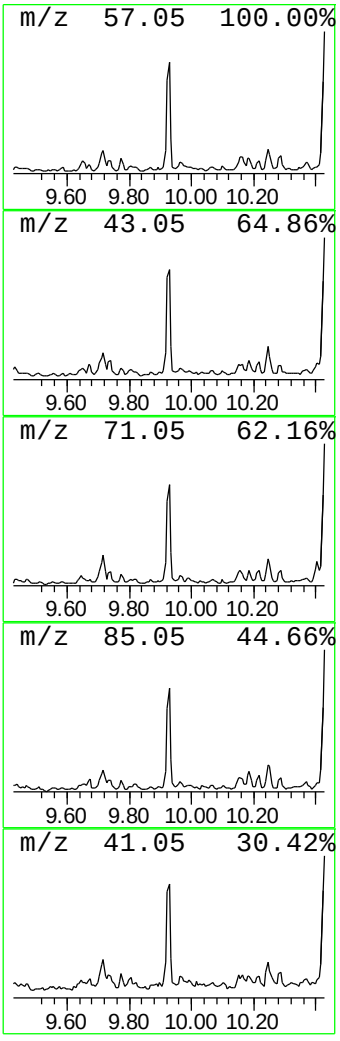
**********

Peak Number 5 Tetradecane Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.93 | 2.64 ng | 156673 | Acenaphthene-d10 | 10.02 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Tetradecane | 198 | C14H30 | 000629-59-4 | 91 |
| 2 | Decane, 2,3,5-trimethyl- | 184 | C13H28 | 062238-11-3 | 90 |
| 3 | Pentadecane | 212 | C15H32 | 000629-62-9 | 80 |
| 4 | Hexadecane | 226 | C16H34 | 000544-76-3 | 72 |
| 5 | Octadecane, 1-chloro- | 288 | C18H37Cl | 003386-33-2 | 72 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF032618\
Data File : BF103935.D
Acq On : 26 Mar 2018 19:55
Operator : JU/SJ
Sample : J1758-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PL-02-032318-A

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

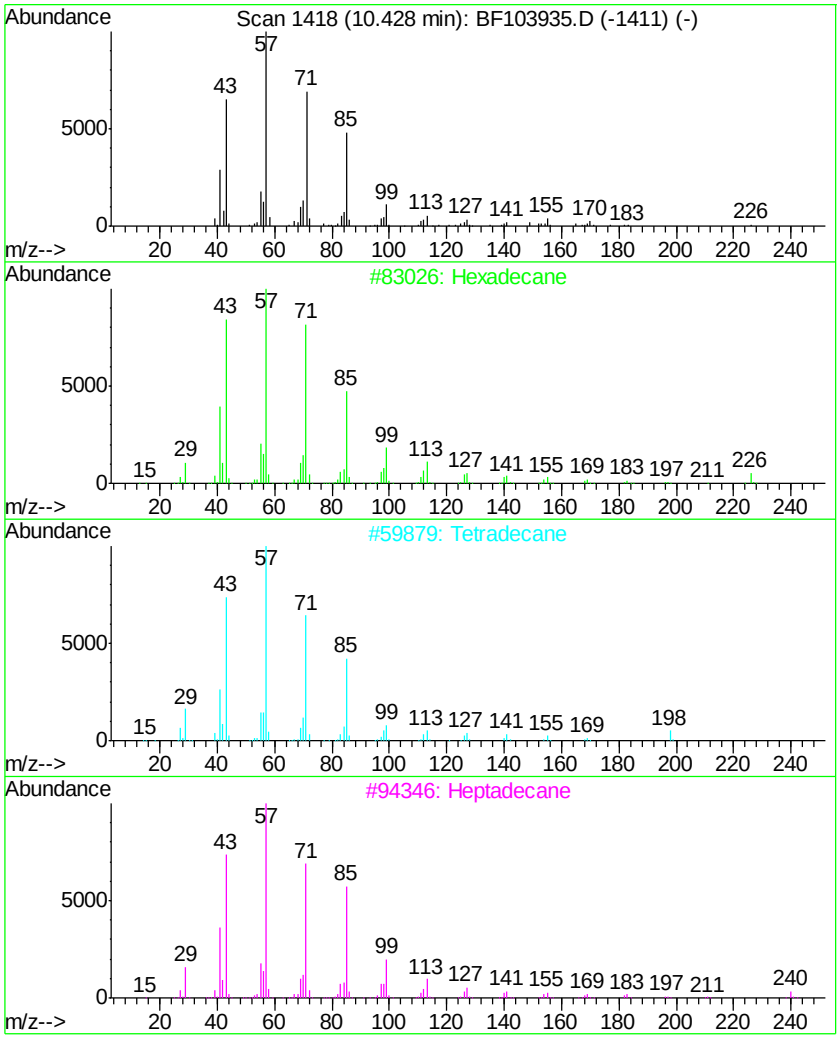
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

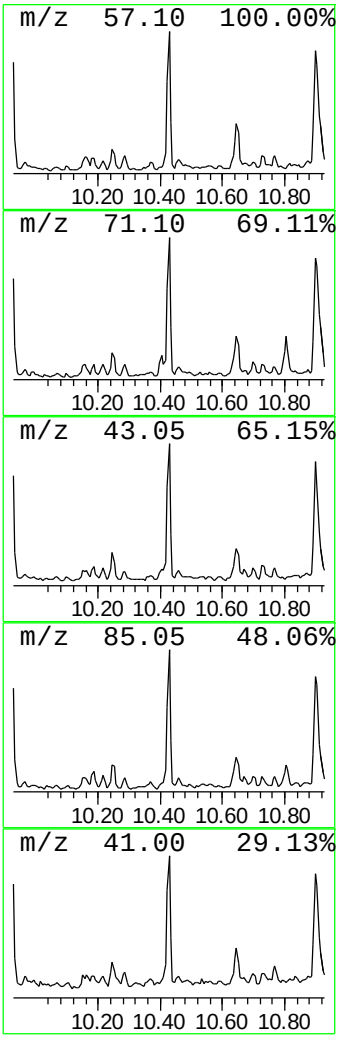
**********

Peak Number 6 Hexadecane Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.43 | 4.03 ng | 239695 | Acenaphthene-d10 | 10.02 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexadecane | 226 | C16H34 | 000544-76-3 | 95 |
| 2 | Tetradecane | 198 | C14H30 | 000629-59-4 | 91 |
| 3 | Heptadecane | 240 | C17H36 | 000629-78-7 | 91 |
| 4 | Undecane, 2-methyl- | 170 | C12H26 | 007045-71-8 | 86 |
| 5 | Dodecane | 170 | C12H26 | 000112-40-3 | 81 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF032618\
Data File : BF103935.D
Acq On : 26 Mar 2018 19:55
Operator : JU/SJ
Sample : J1758-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PL-02-032318-A

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

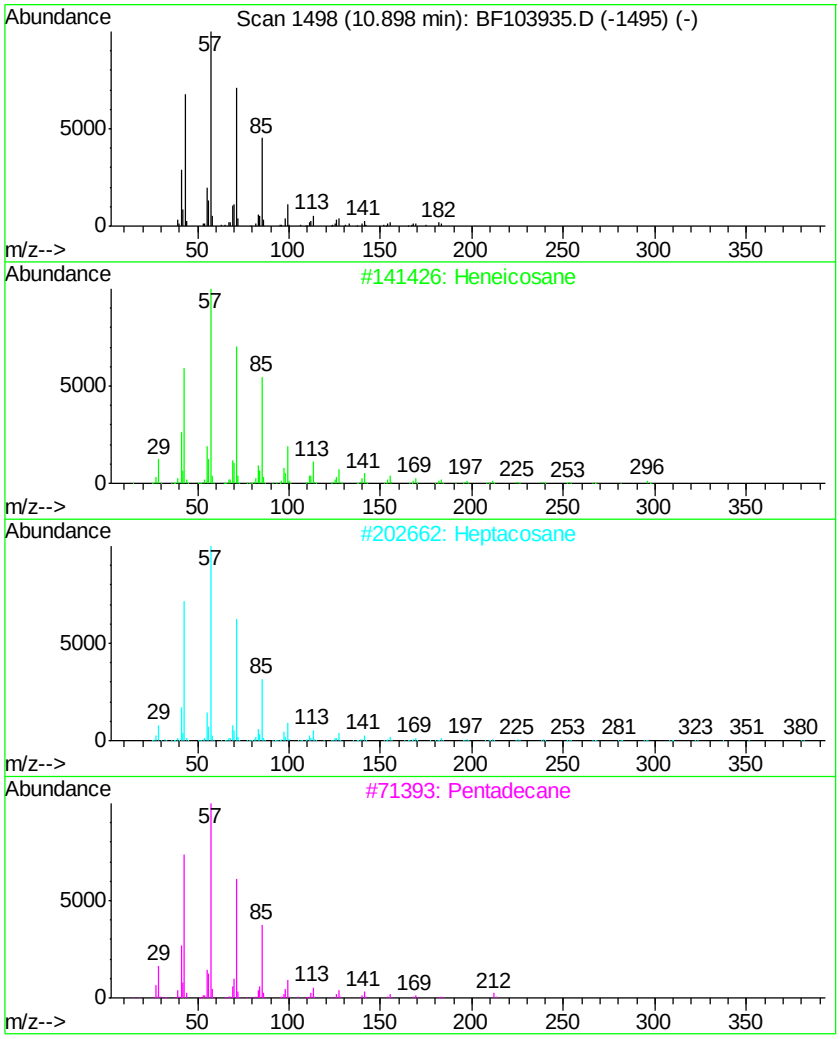
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

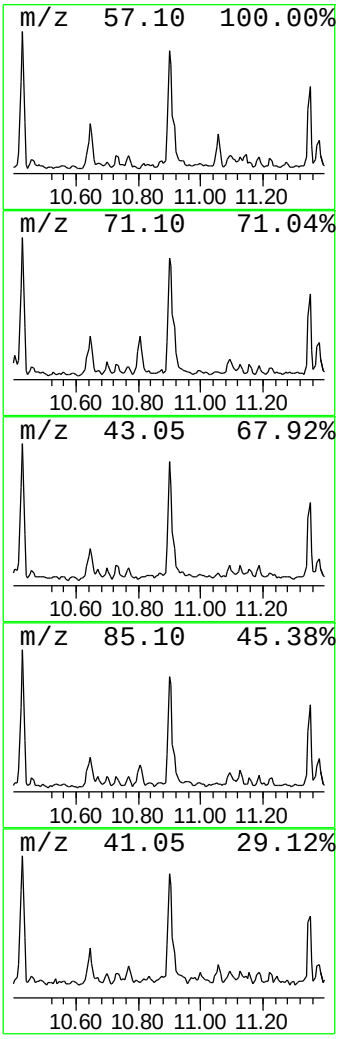
**********

Peak Number 7 Heneicosane Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.90 | 4.23 ng | 264392 | Phenanthrene-d10 | 11.51 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heneicosane | 296 | C21H44 | 000629-94-7 | 91 |
| 2 | Heptacosane | 380 | C27H56 | 000593-49-7 | 91 |
| 3 | Pentadecane | 212 | C15H32 | 000629-62-9 | 90 |
| 4 | Tridecane, 1-iodo- | 310 | C13H27I | 035599-77-0 | 86 |
| 5 | Nonadecane | 268 | C19H40 | 000629-92-5 | 86 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF032618\
Data File : BF103935.D
Acq On : 26 Mar 2018 19:55
Operator : JU/SJ
Sample : J1758-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PL-02-032318-A

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

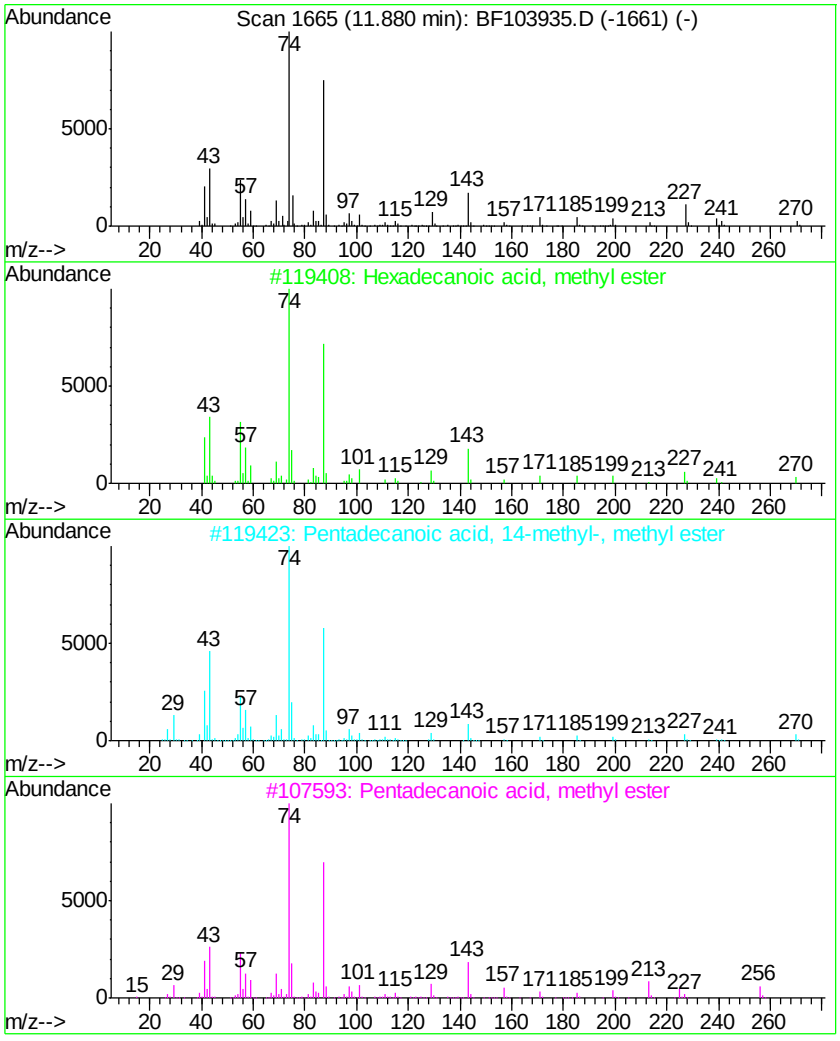
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

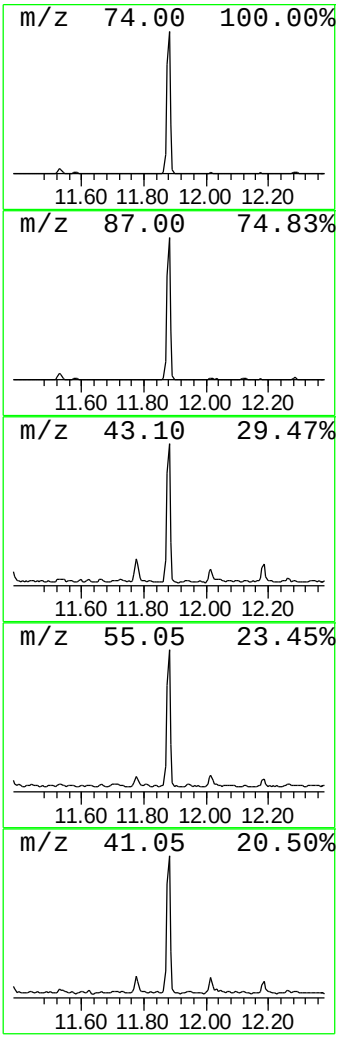
**********

Peak Number 8 Hexadecanoic acid, methyl e... Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.88 | 13.49 ng | 842618 | Phenanthrene-d10 | 11.51 |

| 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 | 92 |
| 3 | Pentadecanoic acid, methyl ester | 256 | C16H32O2 | 007132-64-1 | 86 |
| 4 | Hexadecanoic acid, 15-methyl-, m... | 284 | C18H36O2 | 006929-04-0 | 86 |
| 5 | Tridecanoic acid, 12-methyl-, me... | 242 | C15H30O2 | 005129-58-8 | 80 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF032618\
Data File : BF103935.D
Acq On : 26 Mar 2018 19:55
Operator : JU/SJ
Sample : J1758-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PL-02-032318-A

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

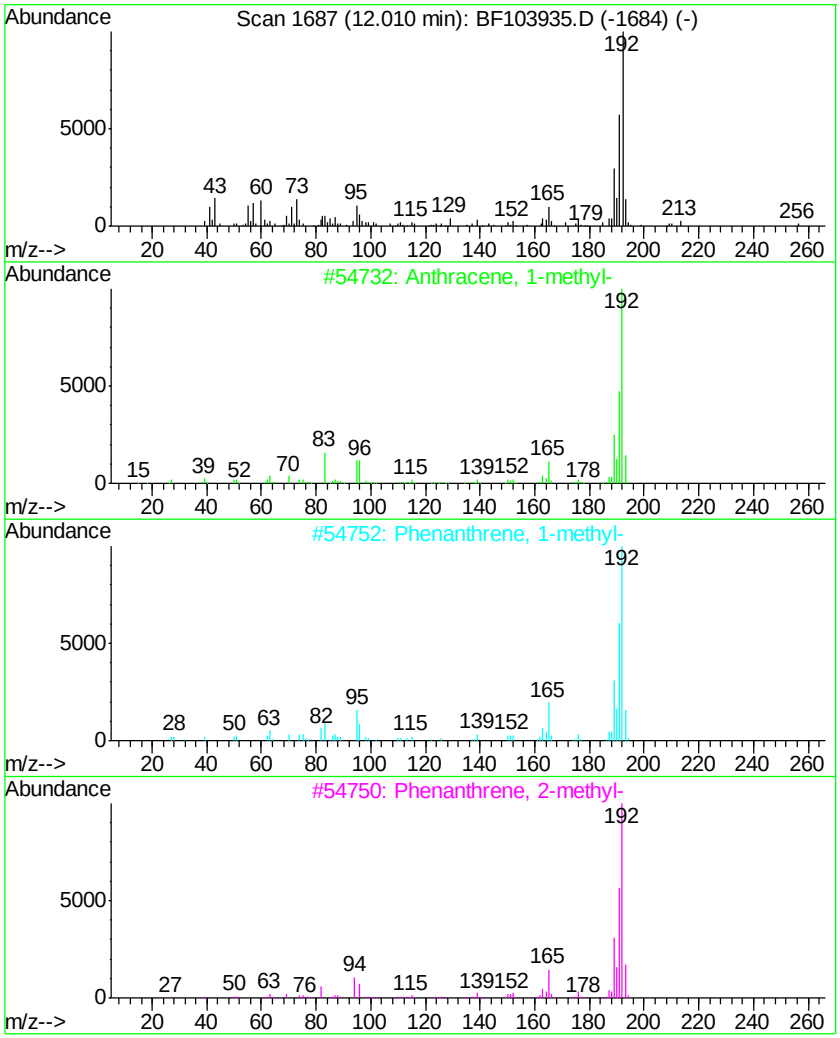
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

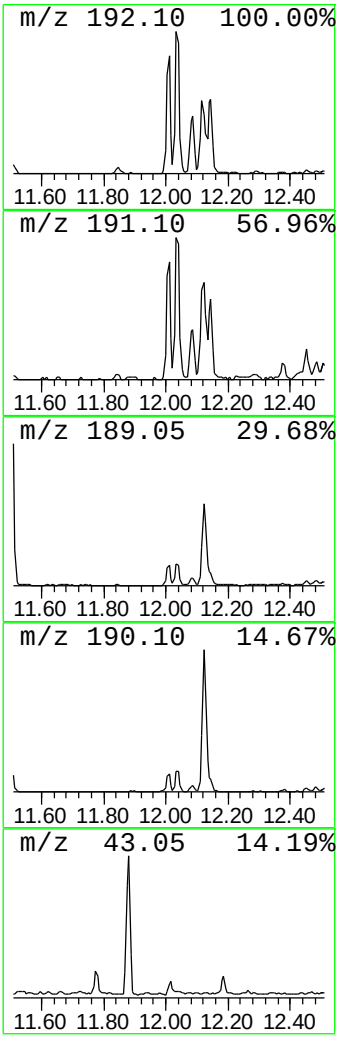
**********

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

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.01 | 2.67 ng | 166682 | Phenanthrene-d10 | 11.51 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 93 |
| 2 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 93 |
| 3 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 92 |
| 4 | Anthracene, 9-methyl- | 192 | C15H12 | 000779-02-2 | 90 |
| 5 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 89 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF032618\
Data File : BF103935.D
Acq On : 26 Mar 2018 19:55
Operator : JU/SJ
Sample : J1758-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PL-02-032318-A

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

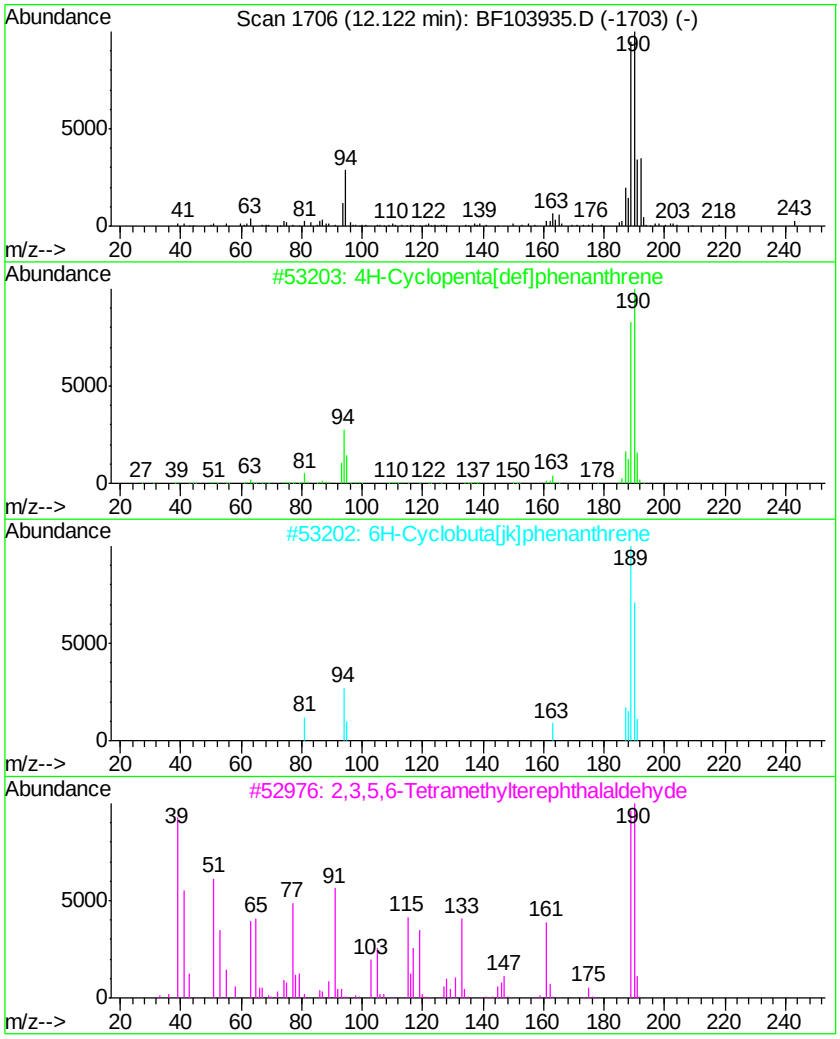
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

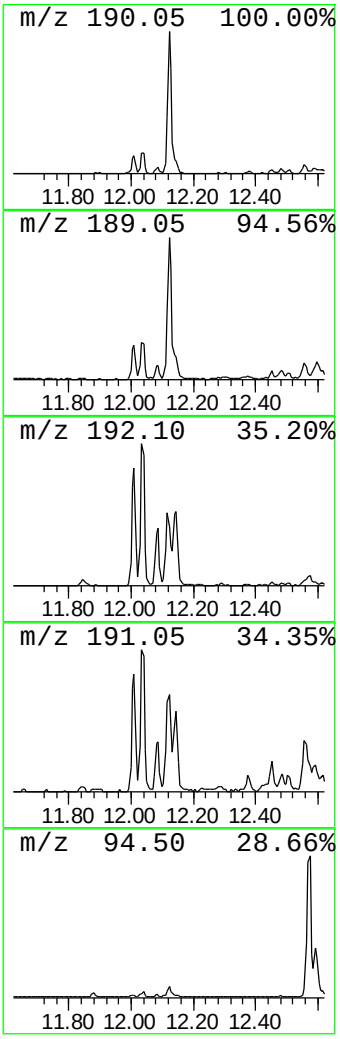
**********

Peak Number 11 4H-Cyclopenta[def]phenanthrene Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.12 | 3.01 ng | 188012 | Phenanthrene-d10 | 11.51 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 87 |
| 2 | 6H-Cyclobuta[jk]phenanthrene | 190 | C15H10 | 083469-43-6 | 59 |
| 3 | 2,3,5,6-Tetramethylterephthalald... | 190 | C12H14O2 | 007072-01-7 | 47 |
| 4 | 2,6-Dichlorobenzaldoxime | 189 | C7H5Cl2NO | 025185-95-9 | 38 |
| 5 | 2,2'-Bis(4,5-dimethylimidazole) | 190 | C10H14N4 | 069286-06-2 | 38 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF032618\
Data File : BF103935.D
Acq On : 26 Mar 2018 19:55
Operator : JU/SJ
Sample : J1758-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PL-02-032318-A

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

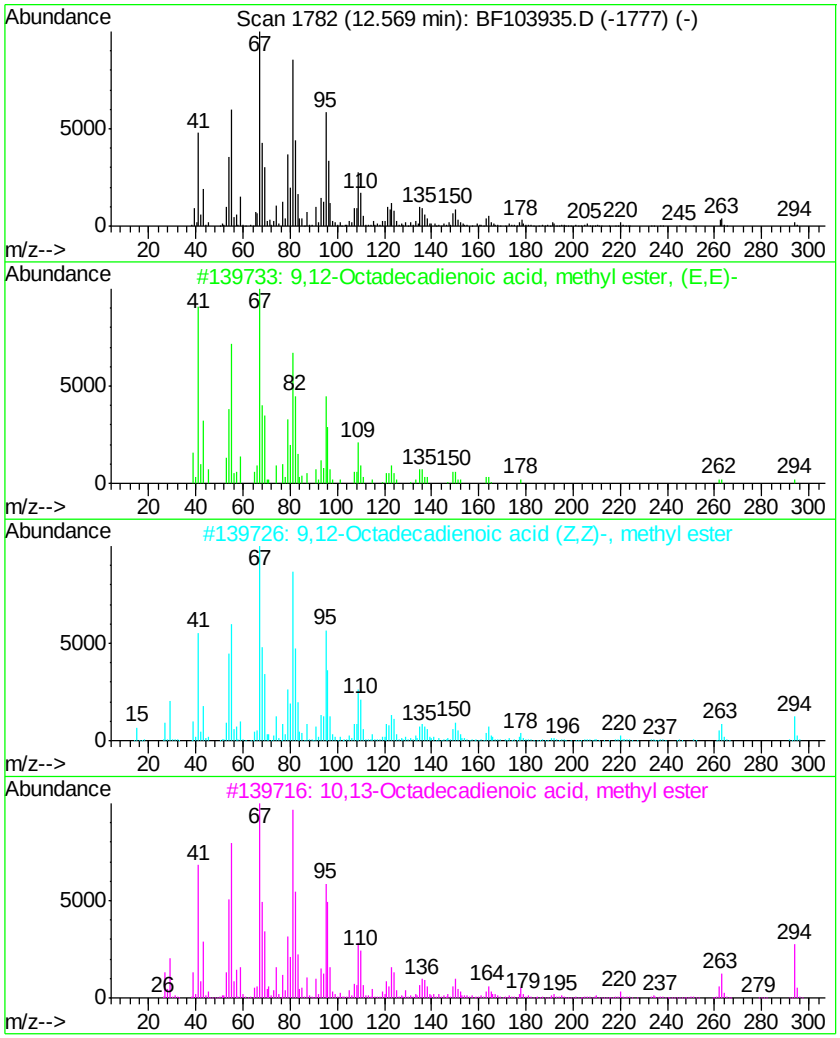
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

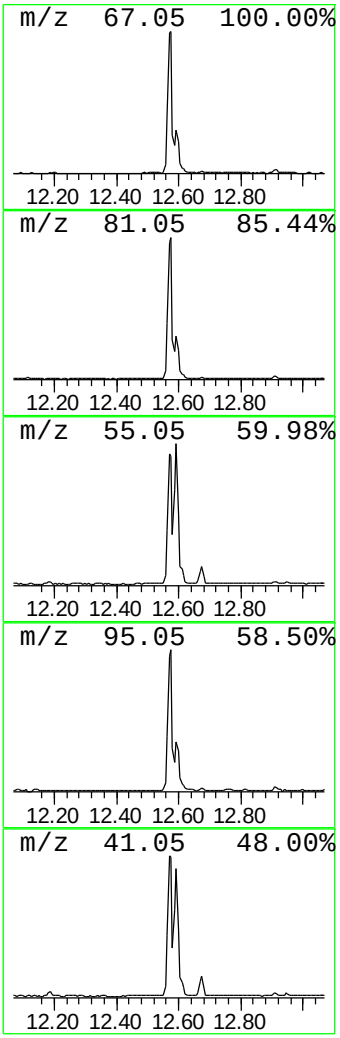
**********

Peak Number 12 9,12-Octadecadienoic acid, ... Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.57 | 45.41 ng | 2835390 | Phenanthrene-d10 | 11.51 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 9,12-Octadecadienoic acid, methy... | 294 | C19H34O2 | 002566-97-4 | 99 |
| 2 | 9,12-Octadecadienoic acid (Z,Z)-... | 294 | C19H34O2 | 000112-63-0 | 99 |
| 3 | 10,13-Octadecadienoic acid, meth... | 294 | C19H34O2 | 056554-62-2 | 99 |
| 4 | 9,12-Octadecadienoic acid, methy... | 294 | C19H34O2 | 002462-85-3 | 99 |
| 5 | Methyl 9-cis,11-trans-octadecadi... | 294 | C19H34O2 | 1000336-44-0 | 99 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF032618\
Data File : BF103935.D
Acq On : 26 Mar 2018 19:55
Operator : JU/SJ
Sample : J1758-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PL-02-032318-A

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

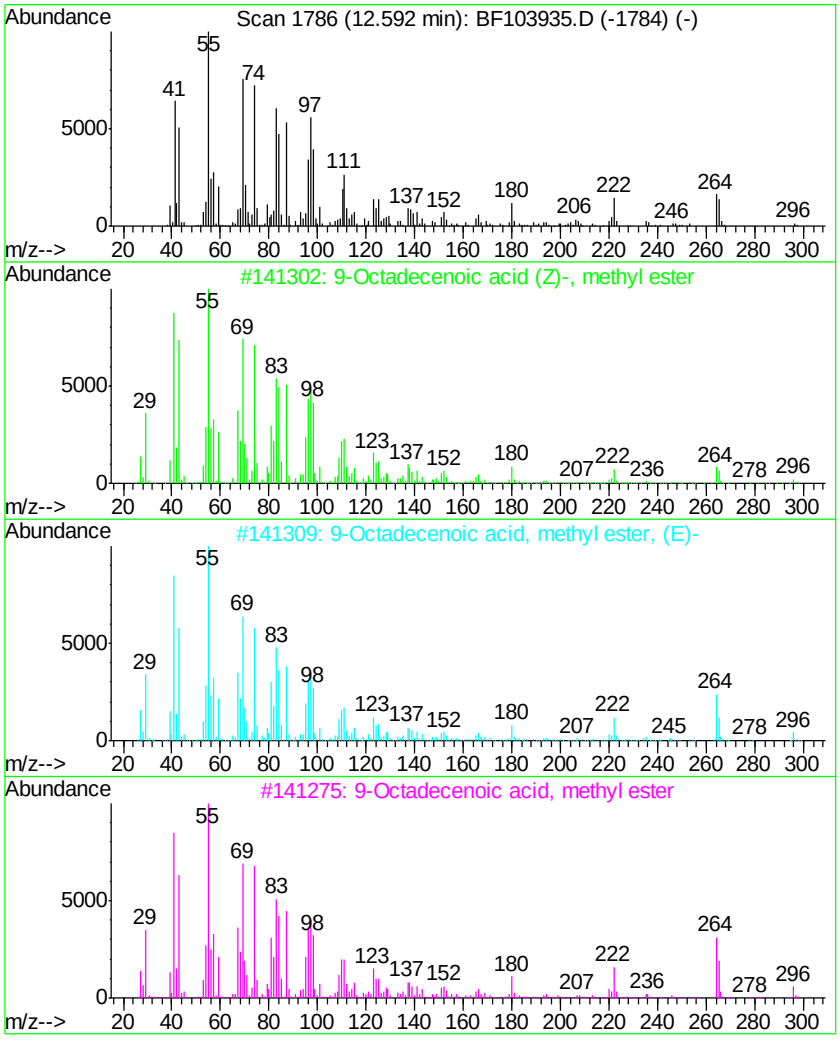
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

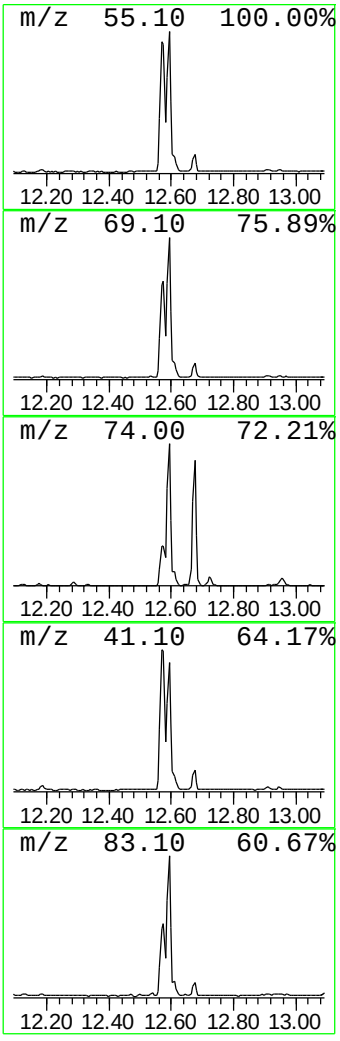
**********

Peak Number 13 9-Octadecenoic acid (Z)-, m... Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.59 | 34.93 ng | 2181300 | Phenanthrene-d10 | 11.51 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 9-Octadecenoic acid (Z)-, methyl... | 296 | C19H36O2 | 000112-62-9 | 95 |
| 2 | 9-Octadecenoic acid, methyl este... | 296 | C19H36O2 | 001937-62-8 | 92 |
| 3 | 9-Octadecenoic acid, methyl ester | 296 | C19H36O2 | 002462-84-2 | 92 |
| 4 | 8-Octadecenoic acid, methyl este... | 296 | C19H36O2 | 026528-50-7 | 89 |
| 5 | 11-Octadecenoic acid, methyl est... | 296 | C19H36O2 | 001937-63-9 | 89 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF032618\
Data File : BF103935.D
Acq On : 26 Mar 2018 19:55
Operator : JU/SJ
Sample : J1758-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PL-02-032318-A

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

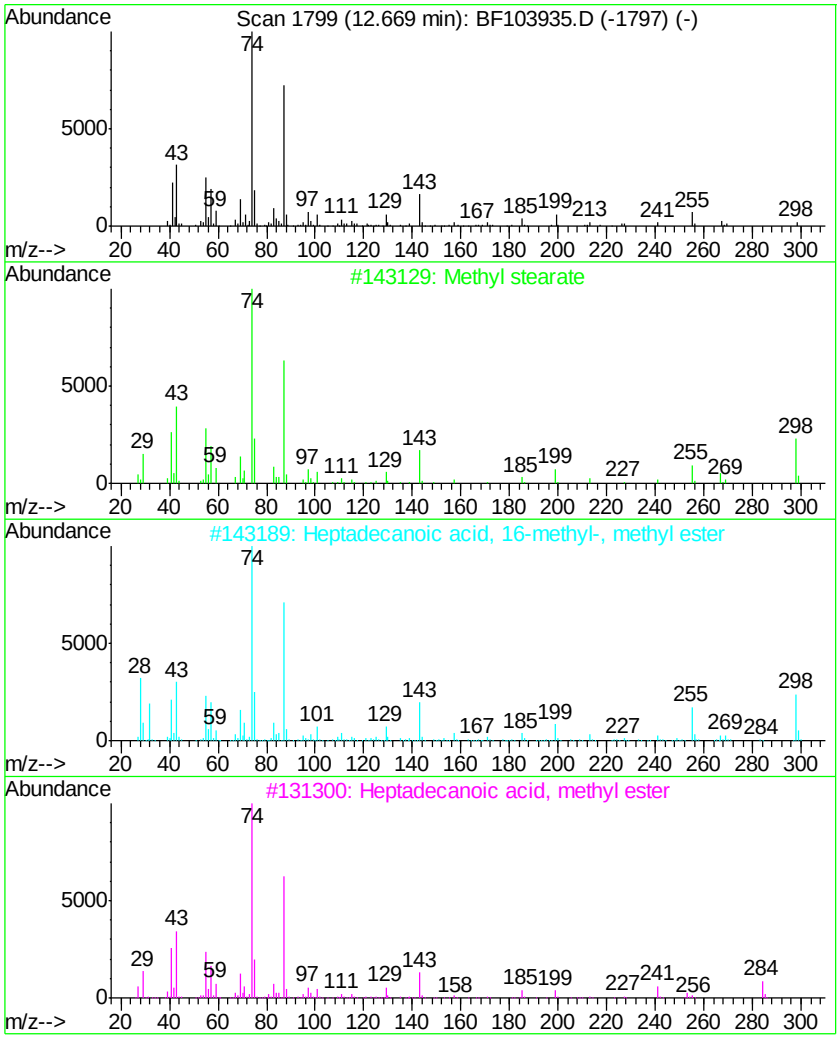
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

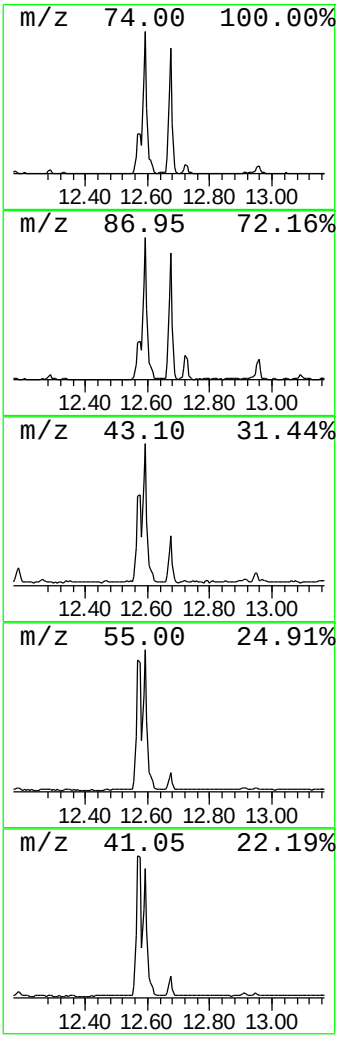
**********

Peak Number 14 Methyl stearate Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.67 | 5.92 ng | 369499 | Phenanthrene-d10 | 11.51 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Methyl stearate | 298 | C19H38O2 | 000112-61-8 | 97 |
| 2 | Heptadecanoic acid, 16-methyl-, ... | 298 | C19H38O2 | 005129-61-3 | 96 |
| 3 | Heptadecanoic acid, methyl ester | 284 | C18H36O2 | 001731-92-6 | 91 |
| 4 | Pentadecanoic acid, methyl ester | 256 | C16H32O2 | 007132-64-1 | 90 |
| 5 | Methyl tetradecanoate | 242 | C15H30O2 | 000124-10-7 | 86 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF032618\
Data File : BF103935.D
Acq On : 26 Mar 2018 19:55
Operator : JU/SJ
Sample : J1758-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PL-02-032318-A

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

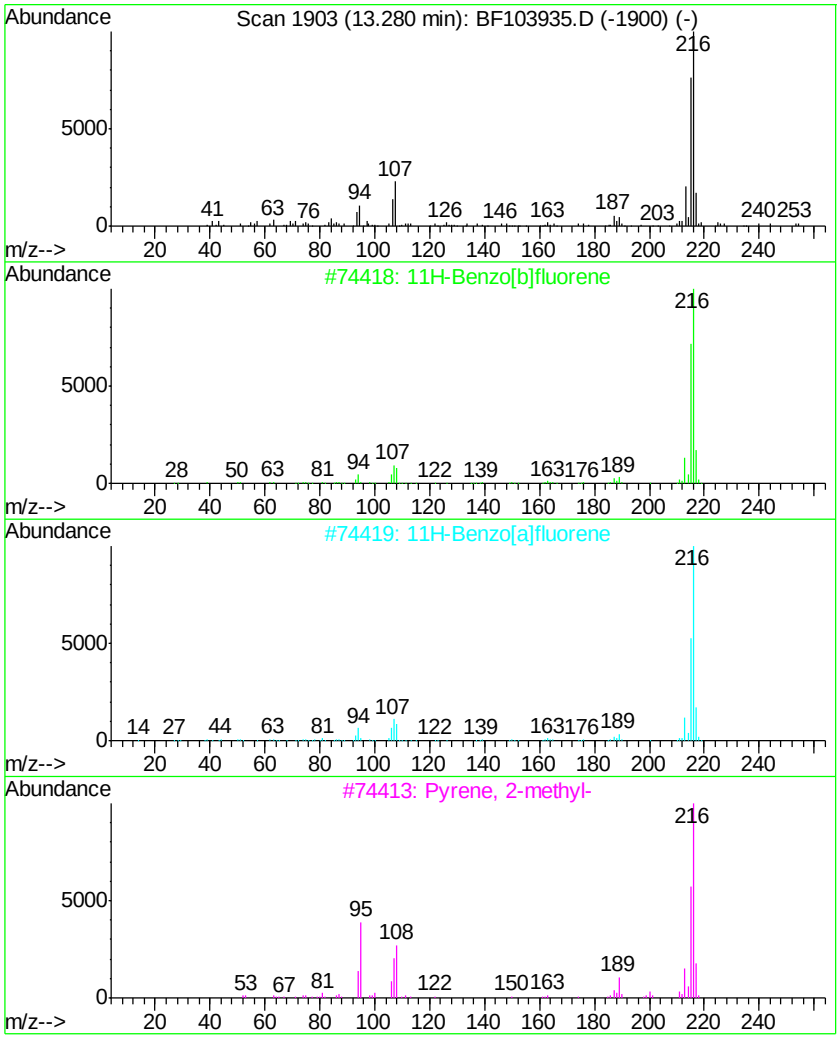
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

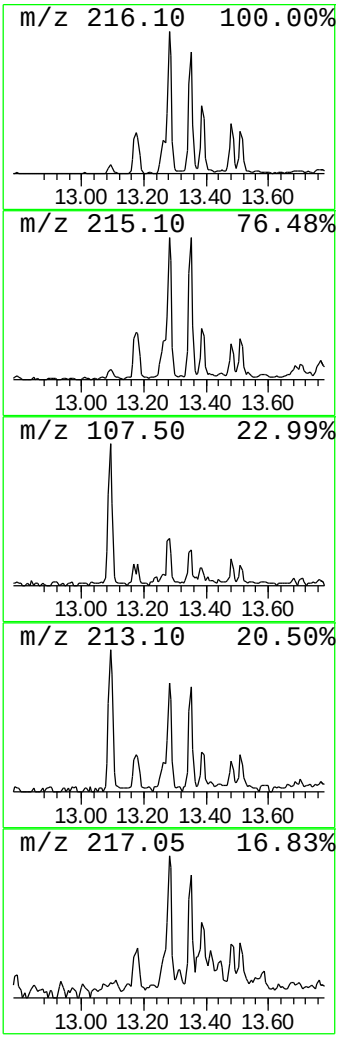
**********

Peak Number 15 11H-Benzo[b]fluorene Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.28 | 2.05 ng | 124578 | Chrysene-d12 | 14.16 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 94 |
| 2 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 90 |
| 3 | Pyrene, 2-methyl- | 216 | C17H12 | 003442-78-2 | 87 |
| 4 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 80 |
| 5 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 74 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF032618\
Data File : BF103935.D
Acq On : 26 Mar 2018 19:55
Operator : JU/SJ
Sample : J1758-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PL-02-032318-A

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

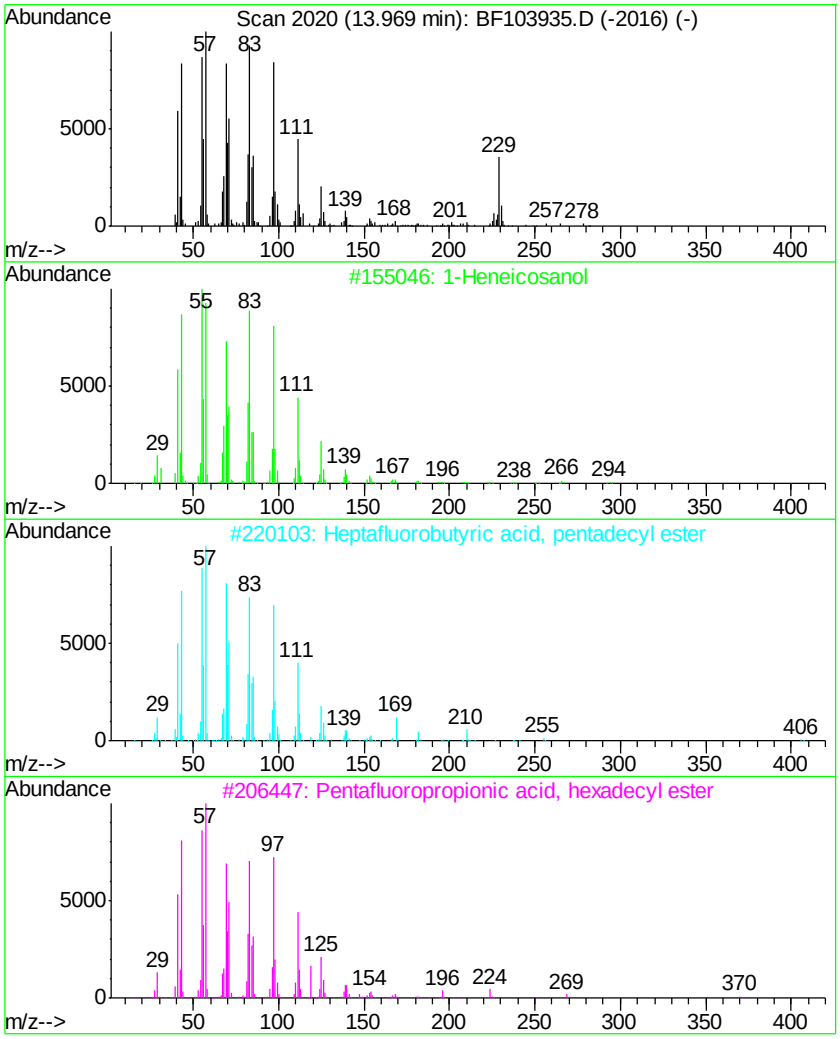
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

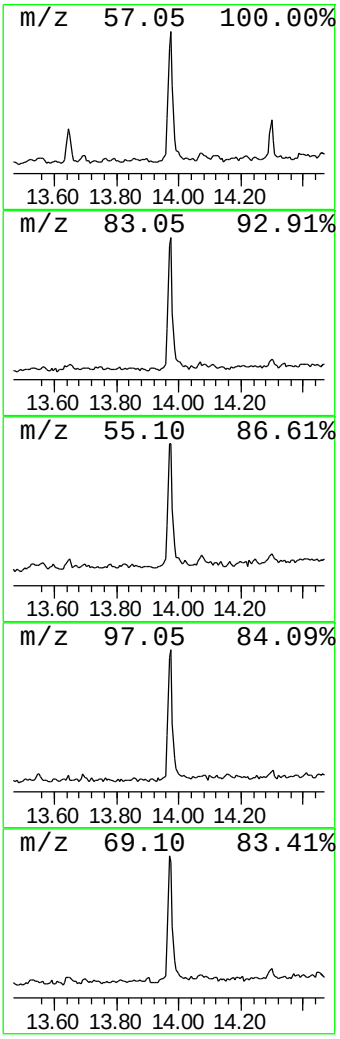
**********

Peak Number 17 1-Heneicosanol Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.97 | 6.56 ng | 399562 | Chrysene-d12 | 14.16 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Heneicosanol | 312 | C21H44O | 015594-90-8 | 93 |
| 2 | Heptafluorobutyric acid, pentade... | 424 | C19H31F7O2 | 959261-23-5 | 91 |
| 3 | Pentafluoropropionic acid, hexad... | 388 | C19H33F5O2 | 006222-07-7 | 91 |
| 4 | Pentafluoropropionic acid, penta... | 374 | C18H31F5O2 | 959092-08-1 | 91 |
| 5 | Cyclopentadecane | 210 | C15H30 | 000295-48-7 | 90 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF032618\
Data File : BF103935.D
Acq On : 26 Mar 2018 19:55
Operator : JU/SJ
Sample : J1758-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PL-02-032318-A

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

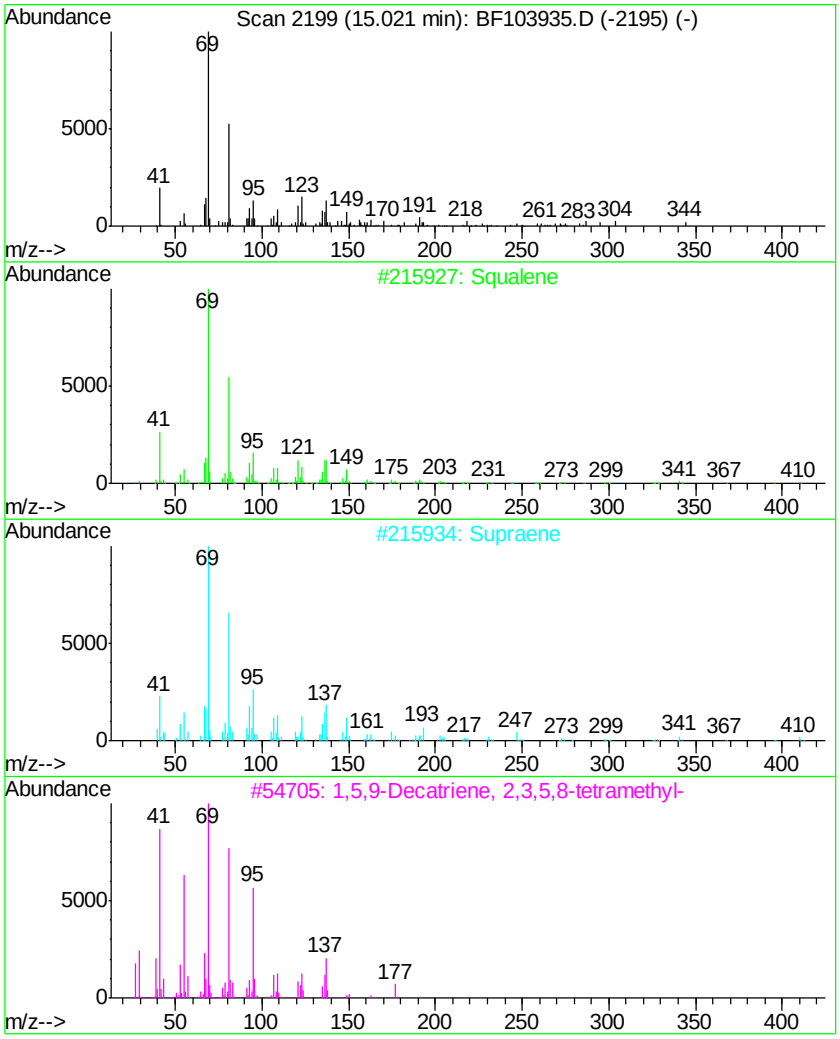
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

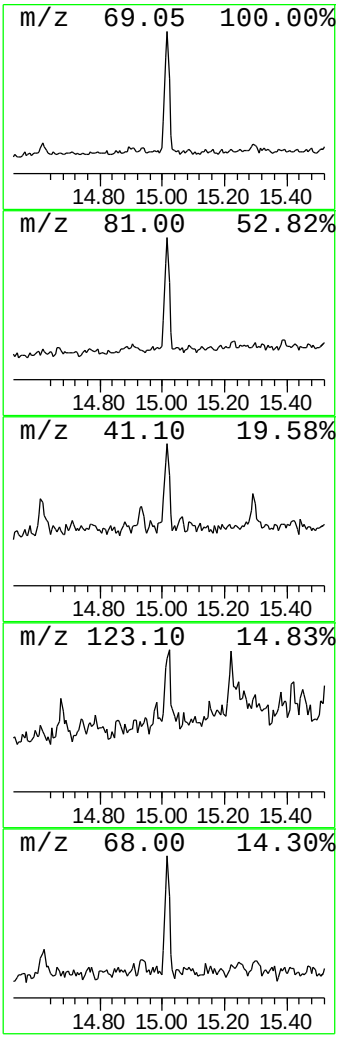
**********

Peak Number 18 Squalene Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.02 | 2.57 ng | 106811 | Perylene-d12 | 15.70 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Squalene | 410 | C30H50 | 000111-02-4 | 90 |
| 2 | Supraene | 410 | C30H50 | 007683-64-9 | 72 |
| 3 | 1,5,9-Decatriene, 2,3,5,8-tetram... | 192 | C14H24 | 230646-72-7 | 72 |
| 4 | 6,10,14-Hexadecatrien-1-ol, 3,7,... | 292 | C20H36O | 036237-66-8 | 72 |
| 5 | 2,6,10-Dodecatrien-1-ol, 3,7,11-... | 264 | C17H28O2 | 004128-17-0 | 64 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF032618\
Data File : BF103935.D
Acq On : 26 Mar 2018 19:55
Operator : JU/SJ
Sample : J1758-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PL-02-032318-A

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

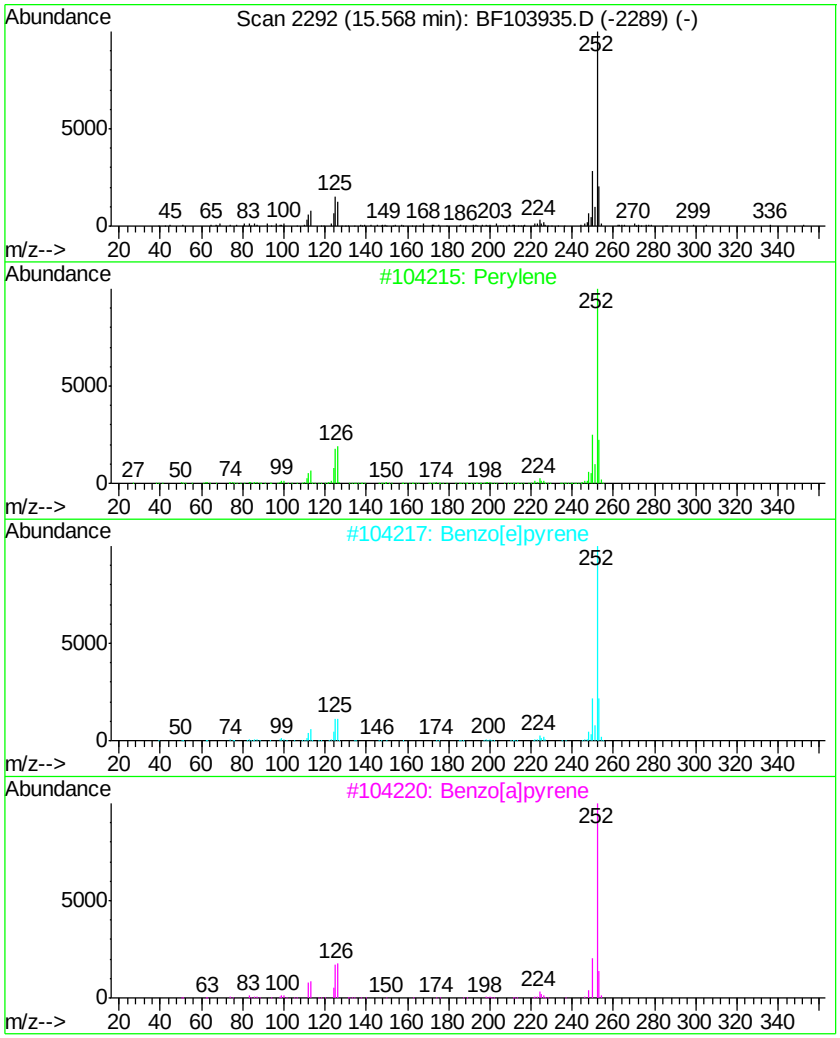
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

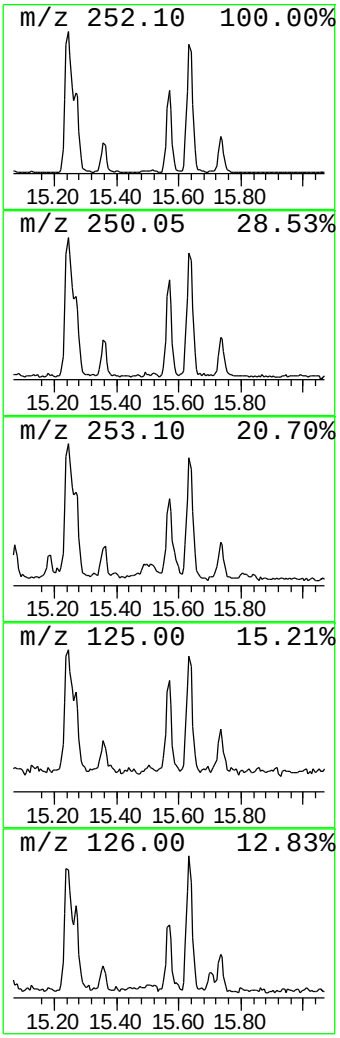
**********

Peak Number 19 Perylene Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.57 | 3.69 ng | 153594 | Perylene-d12 | 15.70 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Perylene | 252 | C20H12 | 000198-55-0 | 99 |
| 2 | Benzo[e]pyrene | 252 | C20H12 | 000192-97-2 | 96 |
| 3 | Benzo[a]pyrene | 252 | C20H12 | 000050-32-8 | 95 |
| 4 | Benz[e]acephenanthrylene | 252 | C20H12 | 000205-99-2 | 93 |
| 5 | Benzo[k]fluoranthene | 252 | C20H12 | 000207-08-9 | 90 |



# Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF032618\
Data File : BF103935.D
Acq On : 26 Mar 2018 19:55
Operator : JU/SJ
Sample : J1758-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PL-02-032318-A

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031518.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... | 2.32 | 3.5 | ng | 143916 | 1 | 6.97 | 822477 | 20.0 |
| unknown5.22 | 5.22 | 3.3 | ng | 137024 | 1 | 6.97 | 822477 | 20.0 |
| unknown6.75 | 6.75 | 70.9 | ng | 2914430 | 1 | 6.97 | 822477 | 20.0 |
| Tetradecane | 9.93 | 2.6 | ng | 156673 | 3 | 10.02 | 1188540 | 20.0 |
| Hexadecane | 10.43 | 4.0 | ng | 239695 | 3 | 10.02 | 1188540 | 20.0 |
| Heneicosane | 10.90 | 4.2 | ng | 264392 | 4 | 11.51 | 1248800 | 20.0 |
| Hexadecanoic acid... | 11.88 | 13.5 | ng | 842618 | 4 | 11.51 | 1248800 | 20.0 |
| Anthracene, 1-met... | 12.01 | 2.7 | ng | 166682 | 4 | 11.51 | 1248800 | 20.0 |
| 4H-Cyclopenta[def... | 12.12 | 3.0 | ng | 188012 | 4 | 11.51 | 1248800 | 20.0 |
| 9,12-Octadecadien... | 12.57 | 45.4 | ng | 2835390 | 4 | 11.51 | 1248800 | 20.0 |
| 9-Octadecenoic ac... | 12.59 | 34.9 | ng | 2181300 | 4 | 11.51 | 1248800 | 20.0 |
| Methyl stearate | 12.67 | 5.9 | ng | 369499 | 4 | 11.51 | 1248800 | 20.0 |
| 11H-Benzo[b]fluorene | 13.28 | 2.0 | ng | 124578 | 5 | 14.16 | 1217510 | 20.0 |
| 1-Heneicosanol | 13.97 | 6.6 | ng | 399562 | 5 | 14.16 | 1217510 | 20.0 |
| Squalene | 15.02 | 2.6 | ng | 106811 | 6 | 15.70 | 832100 | 20.0 |
| Perylene | 15.57 | 3.7 | ng | 153594 | 6 | 15.70 | 832100 | 20.0 |