LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF063017\
Data File : BF096356.D
Acq On : 1 Jul 2017 00:32
Operator : SJ/MA
Sample : I3930-03
Misc :
ALS Vial : 33 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** B2-4-6

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-BF062717.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 | 2.846 | 123 | 129 | 137 | rVB3 | 21477 | 42225 | 1.06% | 0.094% |
| 2 | 3.787 | 282 | 289 | 299 | rVB | 1718035 | 2542136 | 63.89% | 5.662% |
| 3 | 4.393 | 387 | 392 | 398 | rVB4 | 38600 | 62222 | 1.56% | 0.139% |
| 4 | 4.963 | 484 | 489 | 496 | rBV | 495564 | 694194 | 17.45% | 1.546% |
| 5 | 5.345 | 548 | 554 | 555 | rBV | 46823 | 46663 | 1.17% | 0.104% |
| 6 | 5.381 | 555 | 560 | 563 | rVB | 3677753 | 3933744 | 98.86% | 8.761% |
| 7 | 6.210 | 696 | 701 | 705 | rBV4 | 23037 | 42772 | 1.07% | 0.095% |
| 8 | 6.298 | 713 | 716 | 721 | rVB3 | 46649 | 58109 | 1.46% | 0.129% |
| 9 | 6.357 | 721 | 726 | 727 | rBV | 45367 | 48126 | 1.21% | 0.107% |
| 10 | 6.392 | 727 | 732 | 736 | rVB | 3404813 | 3979136 | 100.00% | 8.862% |
| 11 | 6.528 | 750 | 755 | 759 | rBV | 3590261 | 3735423 | 93.88% | 8.320% |
| 12 | 6.592 | 762 | 766 | 767 | rBV | 46938 | 44125 | 1.11% | 0.098% |
| 13 | 6.757 | 791 | 794 | 797 | rBV | 1051170 | 860858 | 21.63% | 1.917% |
| 14 | 6.822 | 802 | 805 | 813 | rBV2 | 50875 | 64283 | 1.62% | 0.143% |
| 15 | 6.916 | 817 | 821 | 824 | rBV | 2990148 | 2715776 | 68.25% | 6.049% |
| 16 | 7.163 | 857 | 863 | 865 | rBV3 | 42487 | 45360 | 1.14% | 0.101% |
| 17 | 7.316 | 881 | 889 | 892 | rBV | 2354583 | 2447883 | 61.52% | 5.452% |
| 18 | 7.369 | 895 | 898 | 901 | rVV2 | 67069 | 59379 | 1.49% | 0.132% |
| 19 | 7.410 | 901 | 905 | 908 | rVB3 | 59989 | 71770 | 1.80% | 0.160% |
| 20 | 8.039 | 1008 | 1012 | 1015 | rBV | 1350395 | 1207659 | 30.35% | 2.690% |
| 21 | 8.063 | 1015 | 1016 | 1018 | rVB | 161350 | 73586 | 1.85% | 0.164% |
| 22 | 8.381 | 1066 | 1070 | 1074 | rBV4 | 32889 | 45794 | 1.15% | 0.102% |
| 23 | 8.428 | 1074 | 1078 | 1081 | rVV3 | 73798 | 82789 | 2.08% | 0.184% |
| 24 | 8.481 | 1083 | 1087 | 1090 | rVB | 68602 | 65859 | 1.66% | 0.147% |
| 25 | 8.645 | 1112 | 1115 | 1117 | rBV | 66892 | 50862 | 1.28% | 0.113% |
| 26 | 8.751 | 1127 | 1133 | 1136 | rVB | 161244 | 138742 | 3.49% | 0.309% |
| 27 | 8.851 | 1147 | 1150 | 1154 | rVB | 122150 | 94020 | 2.36% | 0.209% |
| 28 | 9.116 | 1190 | 1195 | 1199 | rVB | 3077012 | 2857492 | 71.81% | 6.364% |
| 29 | 9.210 | 1208 | 1211 | 1215 | rBV2 | 110169 | 103200 | 2.59% | 0.230% |
| 30 | 9.375 | 1236 | 1239 | 1244 | rVB2 | 46060 | 52915 | 1.33% | 0.118% |
| 31 | 9.451 | 1250 | 1252 | 1255 | rBV | 79157 | 73433 | 1.85% | 0.164% |
| 32 | 9.480 | 1255 | 1257 | 1259 | rVV | 69359 | 57596 | 1.45% | 0.128% |
| 33 | 9.510 | 1259 | 1262 | 1264 | rVV | 572939 | 463704 | 11.65% | 1.033% |
| 34 | 9.533 | 1264 | 1266 | 1268 | rVB | 56207 | 40860 | 1.03% | 0.091% |

LSC Area Percent Report

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Acq On : 1 Jul 2017 00:32
Operator : SJ/MA
Sample : I3930-03
Misc :
ALS Vial : 33 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** B2-4-6

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-BF062717.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 9.651 | 1282 | 1286 | 1290 | rBV | 214513 | 175893 | 4.42% | 0.392% |
| 36 | 9.739 | 1298 | 1301 | 1305 | rVB | 134677 | 107318 | 2.70% | 0.239% |
| 37 | 9.792 | 1305 | 1310 | 1313 | rBV | 1075611 | 965238 | 24.26% | 2.150% |
| 38 | 9.822 | 1313 | 1315 | 1319 | rVB3 | 44423 | 43330 | 1.09% | 0.097% |
| 39 | 9.998 | 1342 | 1345 | 1348 | rVB | 134962 | 119067 | 2.99% | 0.265% |
| 40 | 10.204 | 1376 | 1380 | 1383 | rBV3 | 52707 | 75961 | 1.91% | 0.169% |
| 41 | 10.239 | 1383 | 1386 | 1389 | rVB | 140003 | 122490 | 3.08% | 0.273% |
| 42 | 10.333 | 1399 | 1402 | 1405 | rBV2 | 70297 | 57399 | 1.44% | 0.128% |
| 43 | 10.457 | 1419 | 1423 | 1426 | rBV3 | 65810 | 78650 | 1.98% | 0.175% |
| 44 | 10.492 | 1426 | 1429 | 1435 | rVB3 | 42130 | 68665 | 1.73% | 0.153% |
| 45 | 10.575 | 1439 | 1443 | 1447 | rVB | 1667682 | 1628674 | 40.93% | 3.627% |
| 46 | 10.710 | 1461 | 1466 | 1473 | rBV3 | 200337 | 331202 | 8.32% | 0.738% |
| 47 | 11.075 | 1525 | 1528 | 1533 | rVB | 74467 | 71010 | 1.78% | 0.158% |
| 48 | 11.127 | 1533 | 1537 | 1539 | rVV4 | 30443 | 43544 | 1.09% | 0.097% |
| 49 | 11.157 | 1539 | 1542 | 1545 | rVV2 | 116612 | 134723 | 3.39% | 0.300% |
| 50 | 11.186 | 1545 | 1547 | 1551 | rVB2 | 41859 | 41518 | 1.04% | 0.092% |
| 51 | 11.275 | 1558 | 1562 | 1564 | rBV | 859370 | 803660 | 20.20% | 1.790% |
| 52 | 11.298 | 1564 | 1566 | 1569 | rVV | 443201 | 350356 | 8.80% | 0.780% |
| 53 | 11.345 | 1569 | 1574 | 1577 | rVV | 272055 | 237391 | 5.97% | 0.529% |
| 54 | 11.380 | 1577 | 1580 | 1585 | rVB6 | 35555 | 43835 | 1.10% | 0.098% |
| 55 | 11.498 | 1597 | 1600 | 1603 | rVB2 | 71186 | 61523 | 1.55% | 0.137% |
| 56 | 11.580 | 1611 | 1614 | 1616 | rBV2 | 60228 | 51667 | 1.30% | 0.115% |
| 57 | 11.774 | 1644 | 1647 | 1649 | rBV | 85389 | 71462 | 1.80% | 0.159% |
| 58 | 11.816 | 1649 | 1654 | 1656 | rVV2 | 456682 | 477509 | 12.00% | 1.064% |
| 59 | 11.863 | 1656 | 1662 | 1664 | rVV | 488873 | 789795 | 19.85% | 1.759% |
| 60 | 11.880 | 1664 | 1665 | 1668 | rVB | 81252 | 64785 | 1.63% | 0.144% |
| 61 | 11.986 | 1680 | 1683 | 1689 | rVB4 | 68139 | 71635 | 1.80% | 0.160% |
| 62 | 12.069 | 1694 | 1697 | 1698 | rVV2 | 80407 | 68082 | 1.71% | 0.152% |
| 63 | 12.086 | 1698 | 1700 | 1704 | rVB2 | 62512 | 54910 | 1.38% | 0.122% |
| 64 | 12.216 | 1718 | 1722 | 1725 | rBV5 | 44577 | 61665 | 1.55% | 0.137% |
| 65 | 12.321 | 1736 | 1740 | 1743 | rBV2 | 109041 | 121779 | 3.06% | 0.271% |
| 66 | 12.374 | 1747 | 1749 | 1752 | rVV2 | 91573 | 87479 | 2.20% | 0.195% |
| 67 | 12.404 | 1752 | 1754 | 1759 | rVB2 | 81828 | 83723 | 2.10% | 0.186% |
| 68 | 12.480 | 1763 | 1767 | 1771 | rBV | 899422 | 788604 | 19.82% | 1.756% |
| 69 | 12.516 | 1771 | 1773 | 1780 | rBV5 | 54863 | 96370 | 2.42% | 0.215% |
| 70 | 12.592 | 1784 | 1786 | 1791 | rVV2 | 125296 | 113283 | 2.85% | 0.252% |
| 71 | 12.680 | 1798 | 1801 | 1802 | rBV | 106136 | 110560 | 2.78% | 0.246% |

LSC Area Percent Report

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Operator : SJ/MA
Sample : I3930-03
Misc :
ALS Vial : 33 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** B2-4-6

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-BF062717.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 12.710 | 1802 | 1806 | 1809 | rVB | 876650 | 808523 | 20.32% | 1.801% |
| 73 | 12.827 | 1824 | 1826 | 1827 | rBV | 69648 | 48016 | 1.21% | 0.107% |
| 74 | 12.857 | 1827 | 1831 | 1834 | rVV | 2158202 | 2025352 | 50.90% | 4.511% |
| 75 | 12.886 | 1834 | 1836 | 1839 | rVB | 82921 | 69061 | 1.74% | 0.154% |
| 76 | 12.927 | 1840 | 1843 | 1846 | rBV2 | 78343 | 90269 | 2.27% | 0.201% |
| 77 | 12.992 | 1852 | 1854 | 1856 | rBV3 | 43617 | 48557 | 1.22% | 0.108% |
| 78 | 13.021 | 1856 | 1859 | 1860 | rBV3 | 46815 | 59338 | 1.49% | 0.132% |
| 79 | 13.104 | 1870 | 1873 | 1875 | rBV | 101164 | 90419 | 2.27% | 0.201% |
| 80 | 13.139 | 1876 | 1879 | 1882 | rBV | 148954 | 139506 | 3.51% | 0.311% |
| 81 | 13.233 | 1892 | 1895 | 1897 | rBV | 80050 | 70710 | 1.78% | 0.157% |
| 82 | 13.263 | 1898 | 1900 | 1904 | rVB3 | 69320 | 65869 | 1.66% | 0.147% |
| 83 | 13.339 | 1910 | 1913 | 1920 | rVB | 310834 | 334895 | 8.42% | 0.746% |
| 84 | 13.410 | 1922 | 1925 | 1928 | rBV2 | 161359 | 176722 | 4.44% | 0.394% |
| 85 | 13.439 | 1928 | 1930 | 1933 | rVB | 64144 | 61915 | 1.56% | 0.138% |
| 86 | 13.539 | 1944 | 1947 | 1952 | rBV | 121847 | 147255 | 3.70% | 0.328% |
| 87 | 13.651 | 1962 | 1966 | 1969 | rBV2 | 123686 | 175672 | 4.41% | 0.391% |
| 88 | 13.680 | 1969 | 1971 | 1973 | rVV | 89346 | 87026 | 2.19% | 0.194% |
| 89 | 13.704 | 1973 | 1975 | 1979 | rVV2 | 108578 | 133924 | 3.37% | 0.298% |
| 90 | 13.757 | 1980 | 1984 | 1990 | rVB2 | 311683 | 368310 | 9.26% | 0.820% |
| 91 | 13.904 | 2004 | 2009 | 2012 | rBV2 | 1017019 | 1474323 | 37.05% | 3.284% |
| 92 | 13.927 | 2012 | 2013 | 2019 | rVB | 518052 | 410199 | 10.31% | 0.914% |
| 93 | 14.086 | 2038 | 2040 | 2042 | rVB3 | 82905 | 61299 | 1.54% | 0.137% |
| 94 | 14.921 | 2178 | 2182 | 2185 | rBV | 550488 | 807696 | 20.30% | 1.799% |
| 95 | 15.210 | 2227 | 2231 | 2236 | rVB | 339556 | 442810 | 11.13% | 0.986% |
| 96 | 15.262 | 2237 | 2240 | 2244 | rBV | 317851 | 367577 | 9.24% | 0.819% |
| 97 | 15.327 | 2247 | 2251 | 2254 | rBV | 413337 | 480375 | 12.07% | 1.070% |
| 98 | 16.704 | 2482 | 2485 | 2492 | rVB2 | 154114 | 275814 | 6.93% | 0.614% |

Sum of corrected areas: 44898882

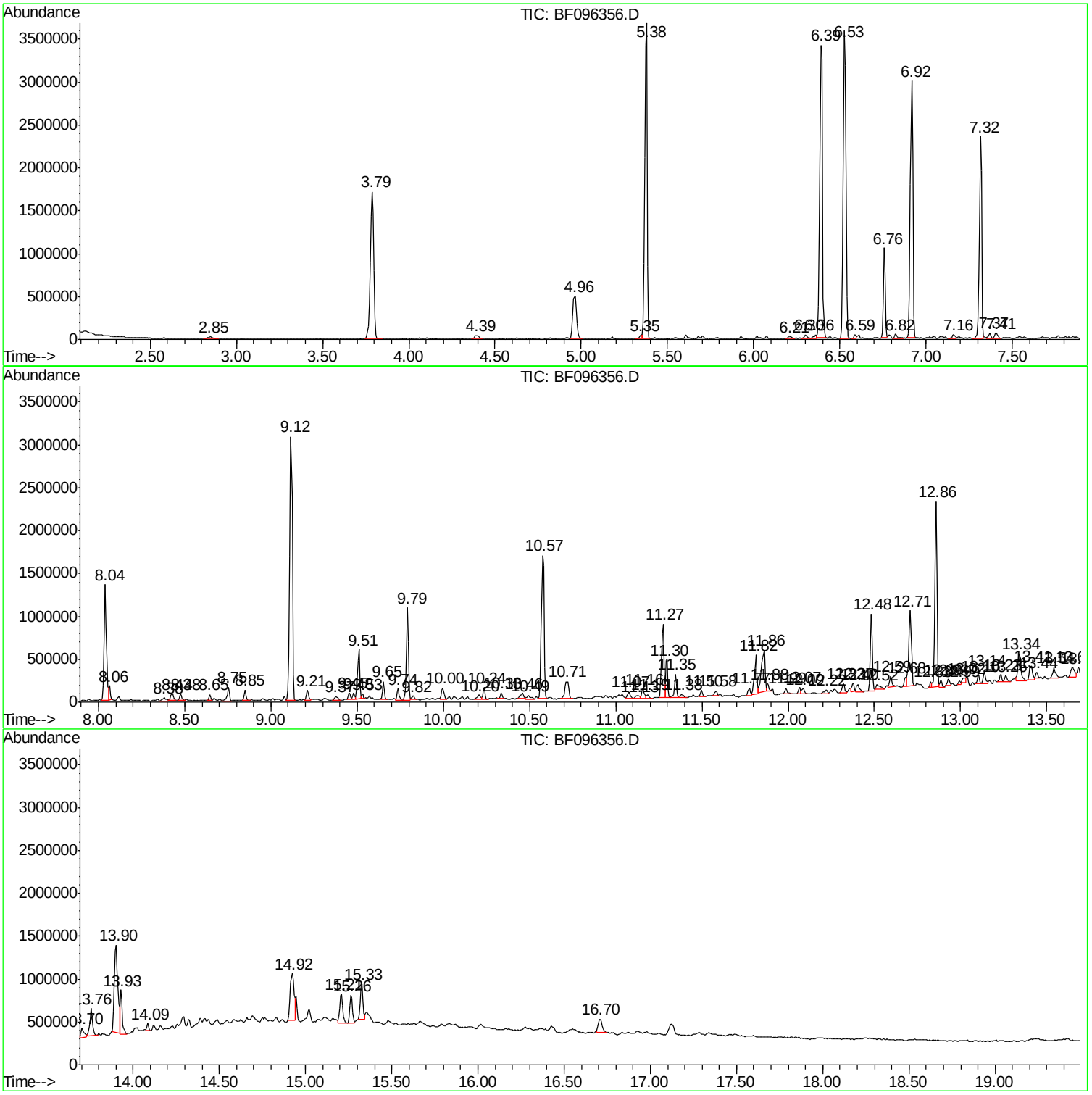
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA F\DATA\BF063017\
Data File : BF096356.D
Acq On : 1 Jul 2017 00:32
Operator : SJ/MA
Sample : I3930-03
Misc :
ALS Vial : 33 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** B2-4-6

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF062717.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\BF063017\
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Acq On : 1 Jul 2017 00:32
Operator : SJ/MA
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Misc :
ALS Vial : 33 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** B2-4-6

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF062717.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

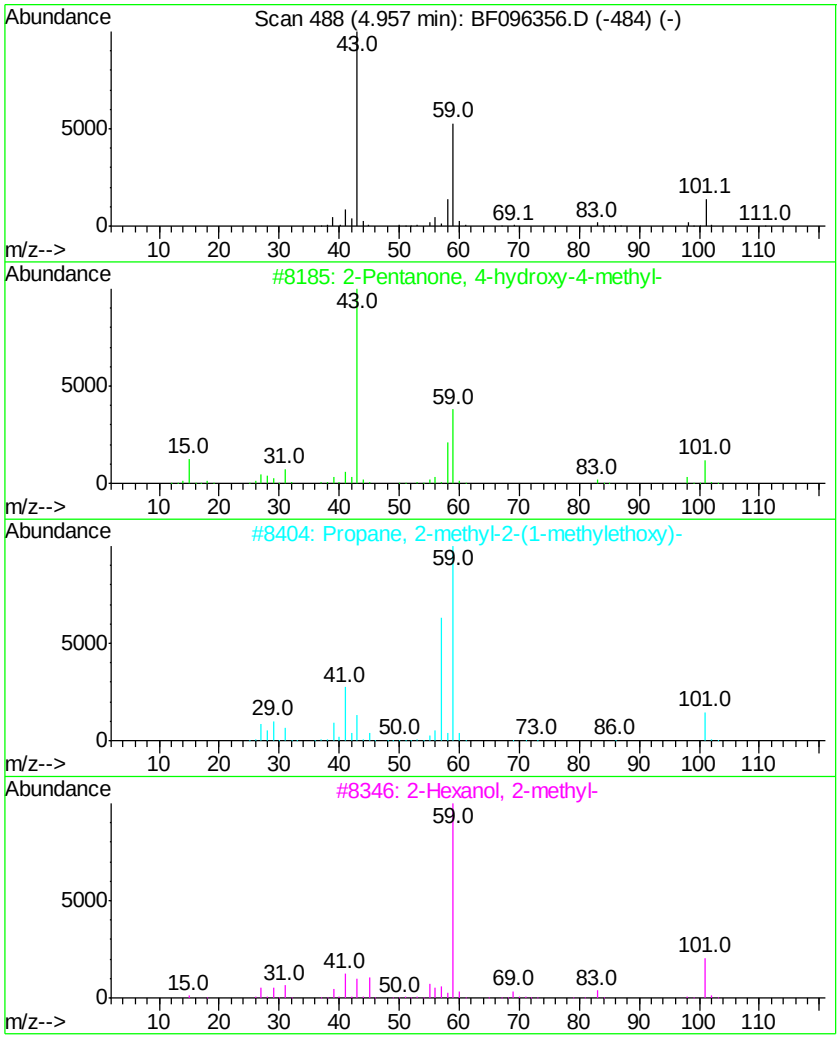
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

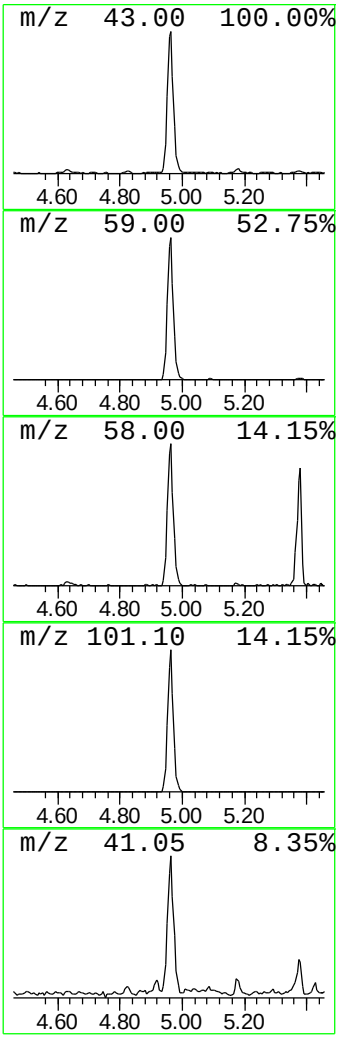
**********

Peak Number 2 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.96 | 16.13 ng | 694194 | 1,4-Dichlorobenzene-d4 | 6.76 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 53 |
| 2 | Propane, 2-methyl-2-(1-methyleth... | 116 | C7H16O | 017348-59-3 | 42 |
| 3 | 2-Hexanol, 2-methyl- | 116 | C7H16O | 000625-23-0 | 38 |
| 4 | Acetic acid, cyano-, 1,1-dimethy... | 141 | C7H11NO2 | 001116-98-9 | 23 |
| 5 | Propane, 1-ethoxy-2-methyl- | 102 | C6H14O | 000627-02-1 | 9 |



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Operator : SJ/MA
Sample : I3930-03
Misc :
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**Instrument :** BNA_F
**ClientSampleId :** B2-4-6

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF062717.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

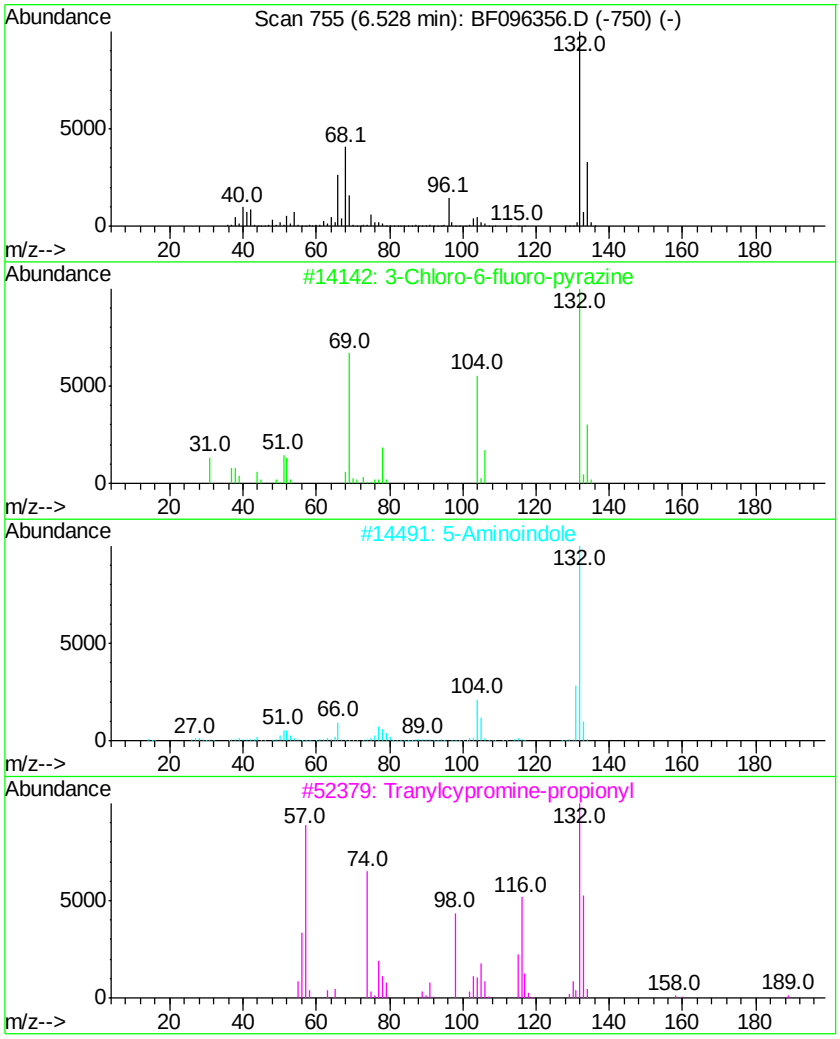
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

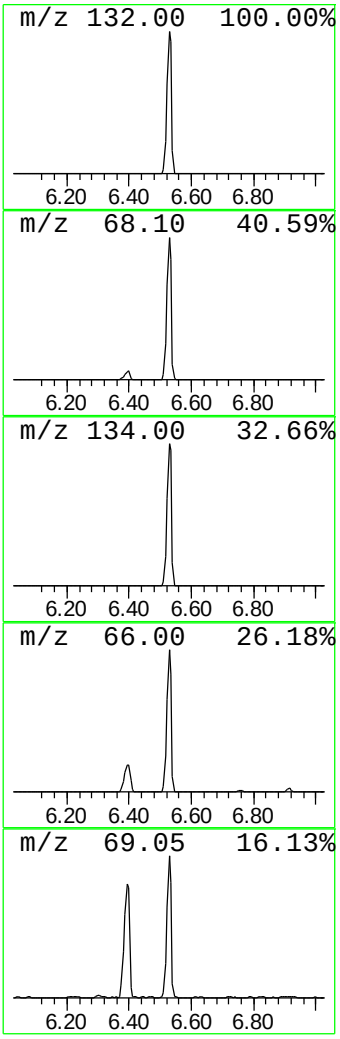
**********

Peak Number 3 unknown6.53 Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.53 | 86.78 ng | 3735420 | 1,4-Dichlorobenzene-d4 | 6.76 |

| 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 | 12 |
| 3 | Tranylcypromine-propionyl | 189 | C12H15NO | 1000123-86-3 | 10 |
| 4 | Bicyclo[4.2.0]octa-1,3,5-triene,... | 132 | C10H12 | 028749-81-7 | 9 |
| 5 | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO | 031357-76-3 | 9 |



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**Instrument :** BNA_F
**ClientSampleId :** B2-4-6

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF062717.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

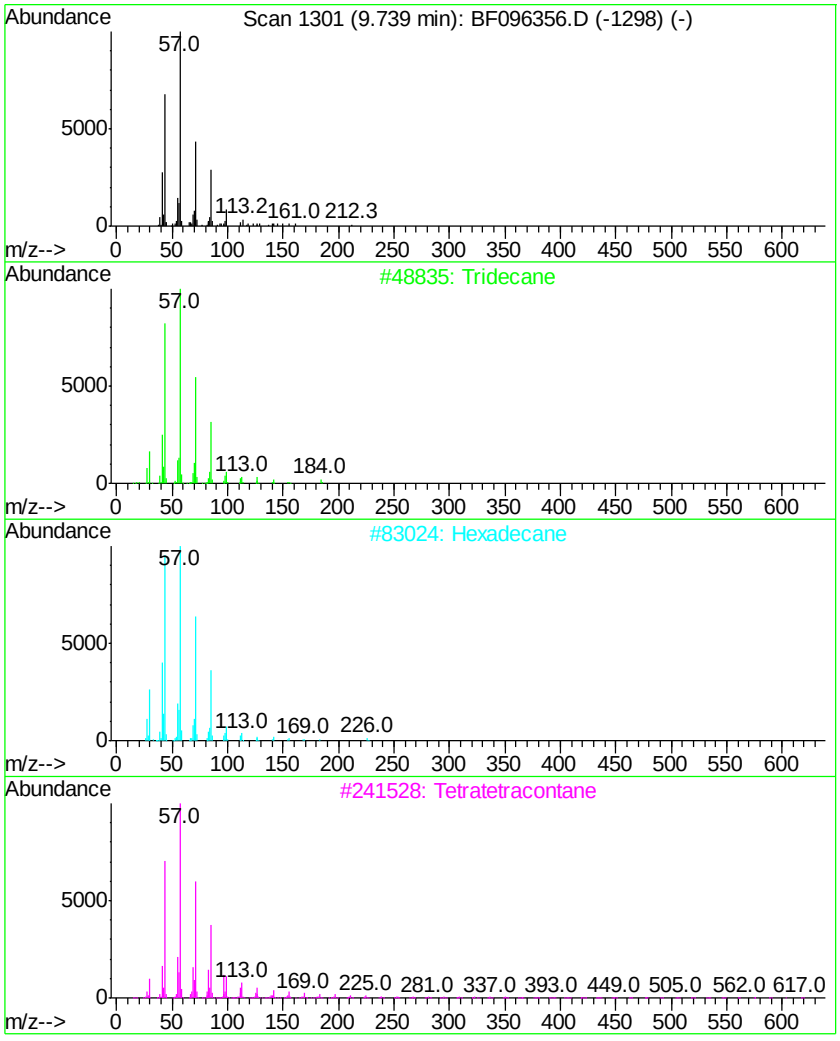
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

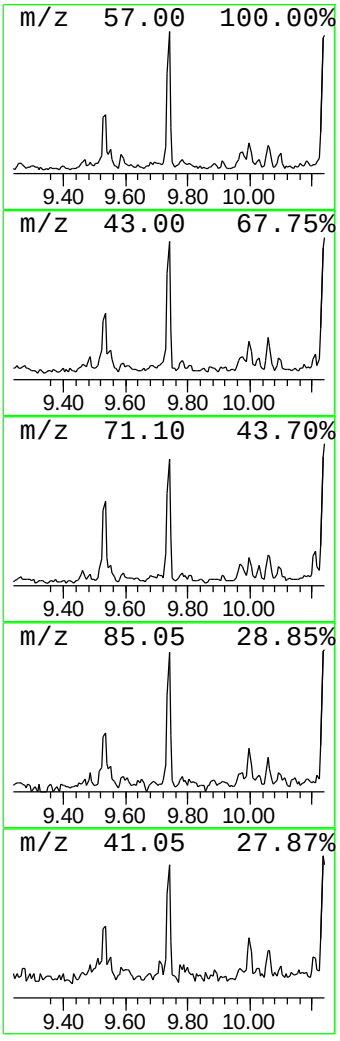
**********

Peak Number 6 Tridecane Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.74 | 2.22 ng | 107318 | Acenaphthene-d10 | 9.79 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Tridecane | 184 | C13H28 | 000629-50-5 | 86 |
| 2 | Hexadecane | 226 | C16H34 | 000544-76-3 | 80 |
| 3 | Tetratetracontane | 619 | C44H90 | 007098-22-8 | 78 |
| 4 | Tetradecane | 198 | C14H30 | 000629-59-4 | 78 |
| 5 | Tridecane, 4,8-dimethyl- | 212 | C15H32 | 055030-62-1 | 78 |



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Acq On : 1 Jul 2017 00:32
Operator : SJ/MA
Sample : I3930-03
Misc :
ALS Vial : 33 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** B2-4-6

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF062717.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

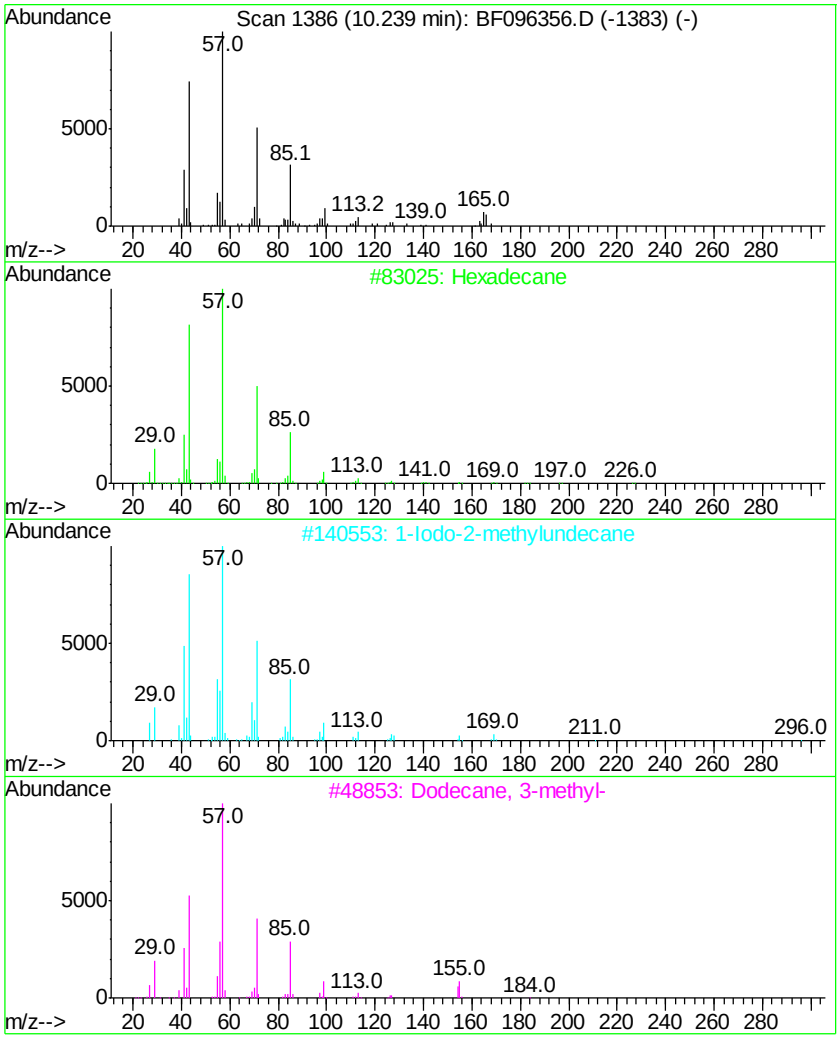
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

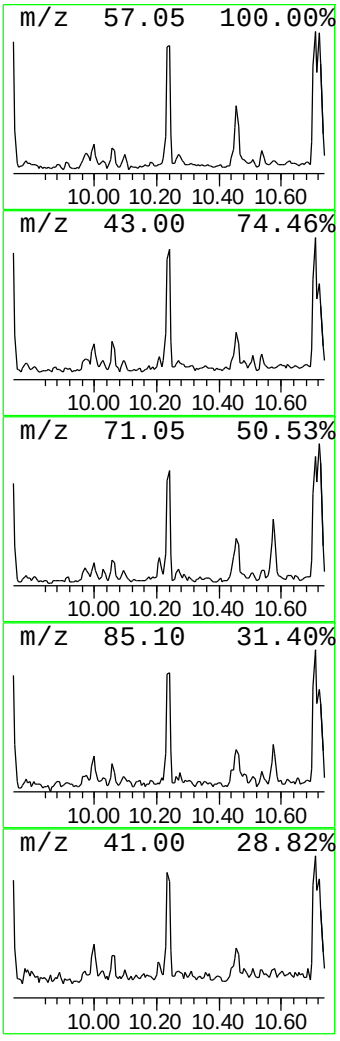
**********

Peak Number 8 Hexadecane Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.24 | 2.54 ng | 122490 | Acenaphthene-d10 | 9.79 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexadecane | 226 | C16H34 | 000544-76-3 | 86 |
| 2 | 1-Iodo-2-methylundecane | 296 | C12H25I | 073105-67-6 | 78 |
| 3 | Dodecane, 3-methyl- | 184 | C13H28 | 017312-57-1 | 72 |
| 4 | Undecane | 156 | C11H24 | 001120-21-4 | 64 |
| 5 | Sulfurous acid, butyl nonyl ester | 264 | C13H28O3S | 1000309-17-6 | 64 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF063017\
Data File : BF096356.D
Acq On : 1 Jul 2017 00:32
Operator : SJ/MA
Sample : I3930-03
Misc :
ALS Vial : 33 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** B2-4-6

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF062717.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

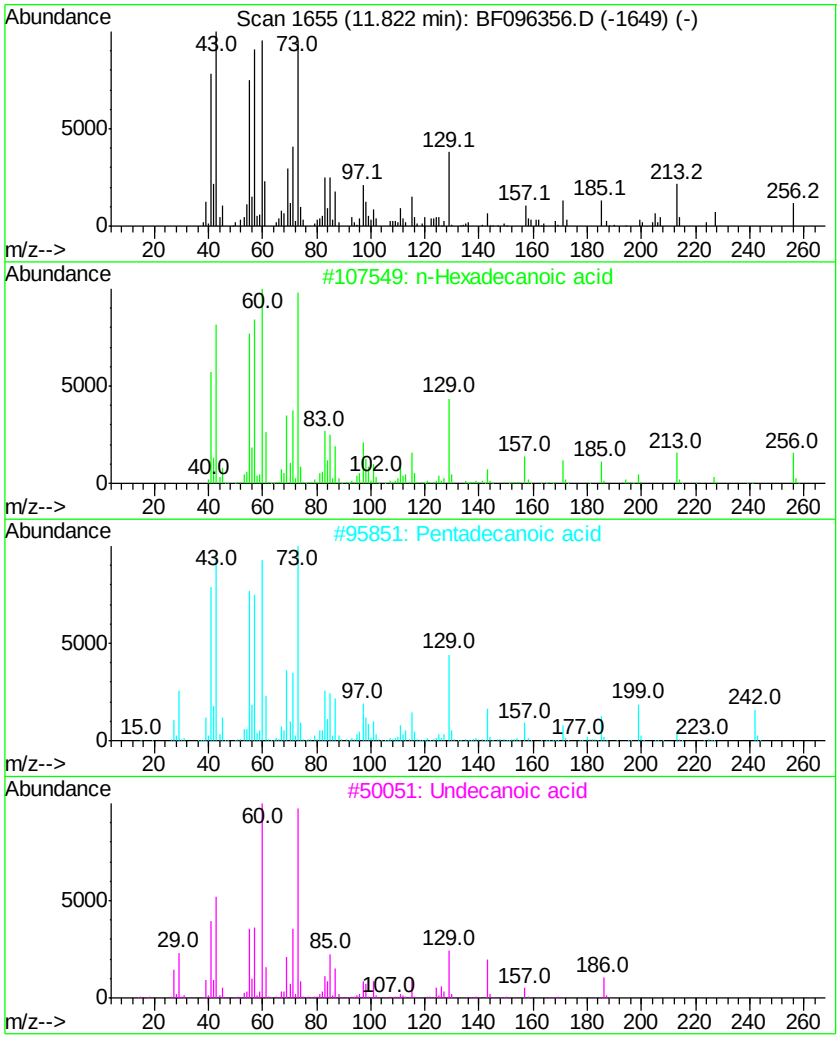
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

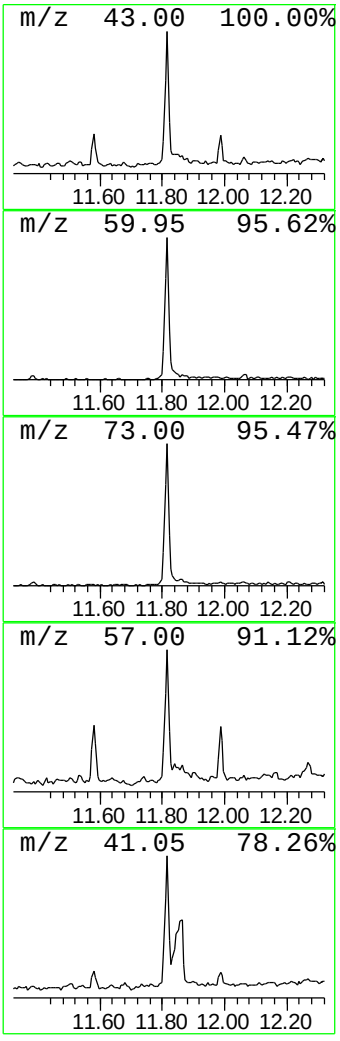
**********

Peak Number 11 n-Hexadecanoic acid Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.82 | 11.88 ng | 477509 | Phenanthrene-d10 | 11.27 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 99 |
| 2 | Pentadecanoic acid | 242 | C15H30O2 | 001002-84-2 | 90 |
| 3 | Undecanoic acid | 186 | C11H22O2 | 000112-37-8 | 86 |
| 4 | Tetradecanoic acid | 228 | C14H28O2 | 000544-63-8 | 86 |
| 5 | Tridecanoic acid | 214 | C13H26O2 | 000638-53-9 | 81 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF063017\
Data File : BF096356.D
Acq On : 1 Jul 2017 00:32
Operator : SJ/MA
Sample : I3930-03
Misc :
ALS Vial : 33 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** B2-4-6

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF062717.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

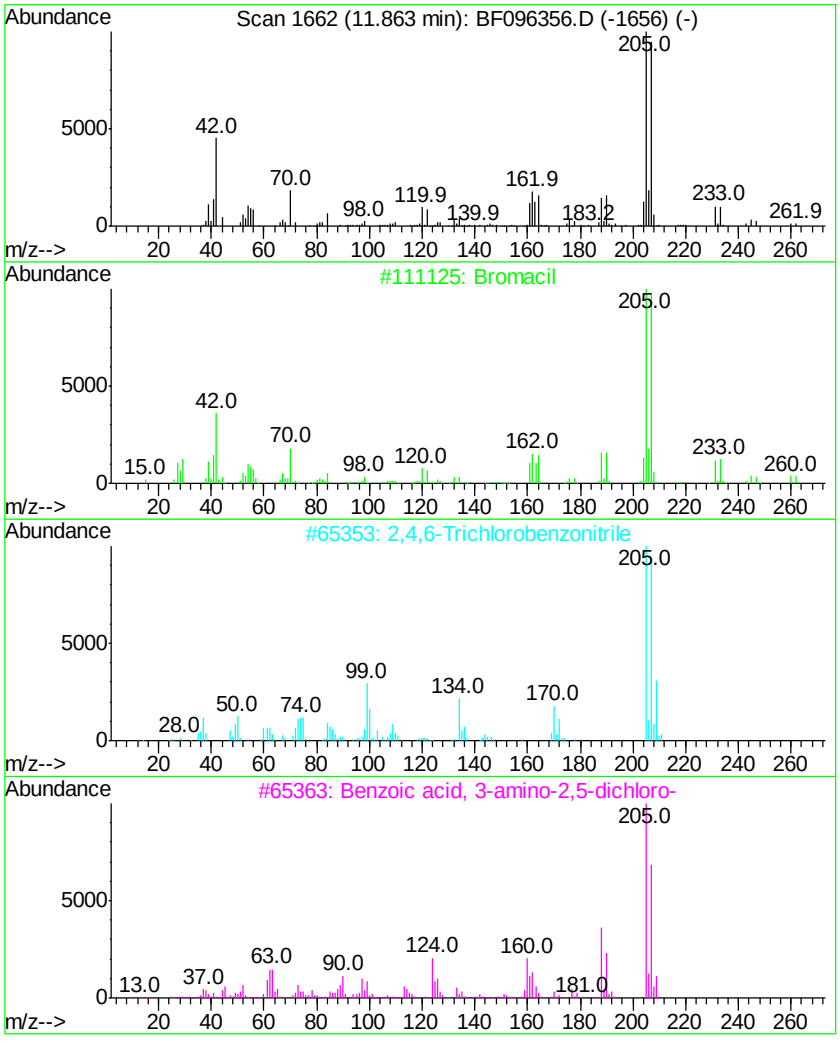
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

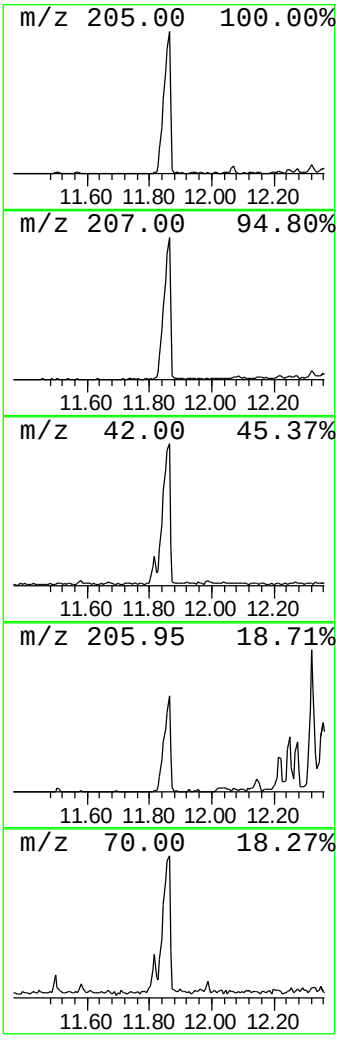
**********

Peak Number 12 Bromacil Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.86 | 19.66 ng | 789795 | Phenanthrene-d10 | 11.27 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Bromacil | 260 | C9H13BrN2O2 | 000314-40-9 | 90 |
| 2 | 2,4,6-Trichlorobenzonitrile | 205 | C7H2Cl3N | 006575-05-9 | 50 |
| 3 | Benzoic acid, 3-amino-2,5-dichloro- | 205 | C7H5Cl2NO2 | 000133-90-4 | 40 |
| 4 | 5-Acetamido-2,4-dichlorobenzoic ... | 247 | C9H7Cl2NO3 | 050602-49-8 | 40 |
| 5 | 7-Chloro-2,3-dihydrofuro(2,3-b)q... | 205 | C11H8ClNO | 064124-91-0 | 35 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF063017\
Data File : BF096356.D
Acq On : 1 Jul 2017 00:32
Operator : SJ/MA
Sample : I3930-03
Misc :
ALS Vial : 33 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** B2-4-6

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF062717.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

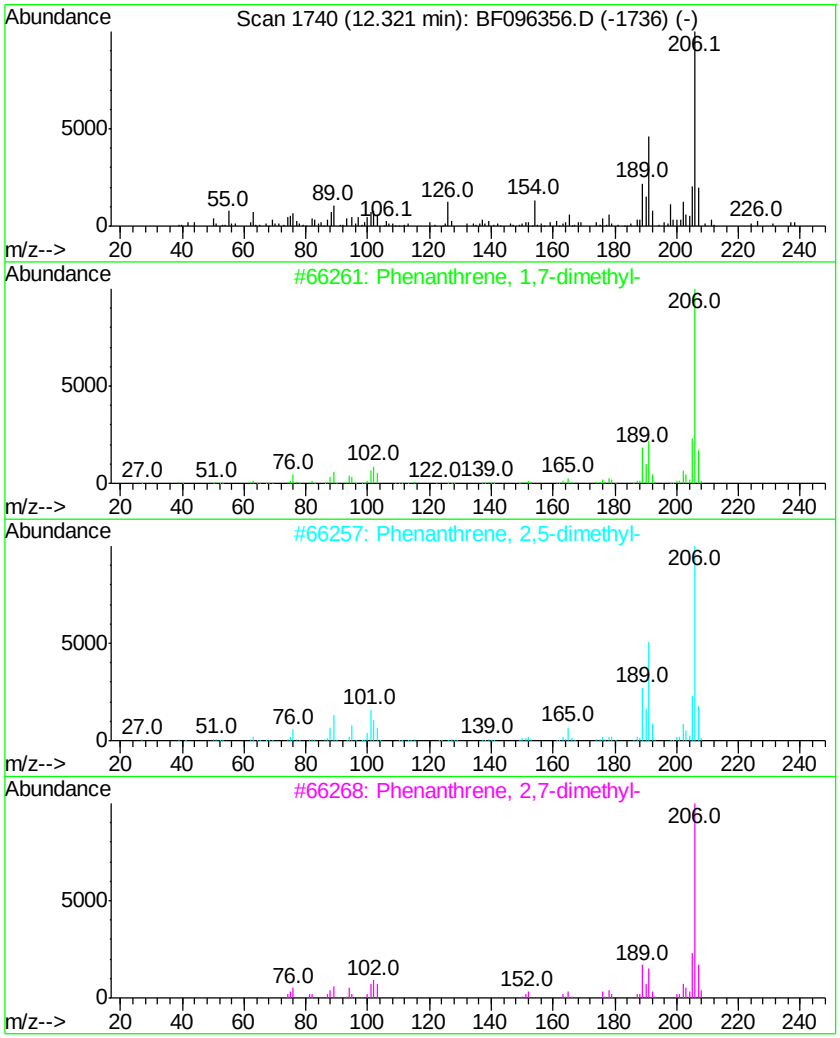
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

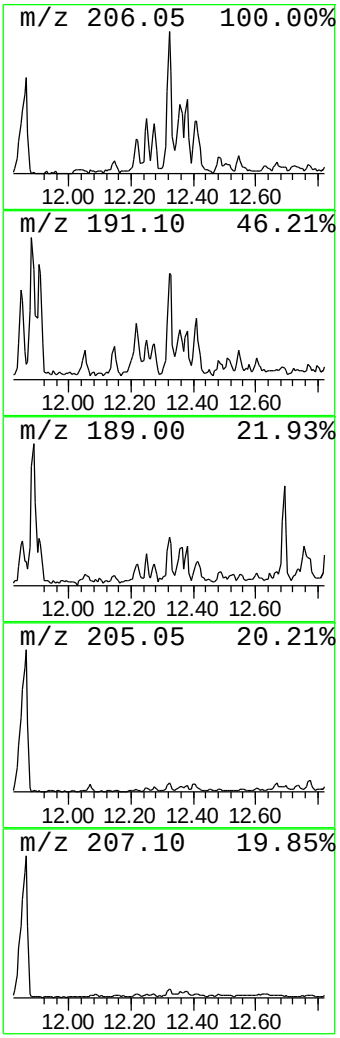
**********

Peak Number 13 Phenanthrene, 1,7-dimethyl- Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.32 | 3.03 ng | 121779 | Phenanthrene-d10 | 11.27 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 1,7-dimethyl- | 206 | C16H14 | 000483-87-4 | 94 |
| 2 | Phenanthrene, 2,5-dimethyl- | 206 | C16H14 | 003674-66-6 | 93 |
| 3 | Phenanthrene, 2,7-dimethyl- | 206 | C16H14 | 001576-69-8 | 91 |
| 4 | Anthracene, 1,4-dimethyl- | 206 | C16H14 | 000781-92-0 | 90 |
| 5 | Phenanthrene, 2,3-dimethyl- | 206 | C16H14 | 003674-65-5 | 83 |



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Data File : BF096356.D
Acq On : 1 Jul 2017 00:32
Operator : SJ/MA
Sample : I3930-03
Misc :
ALS Vial : 33 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** B2-4-6

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF062717.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

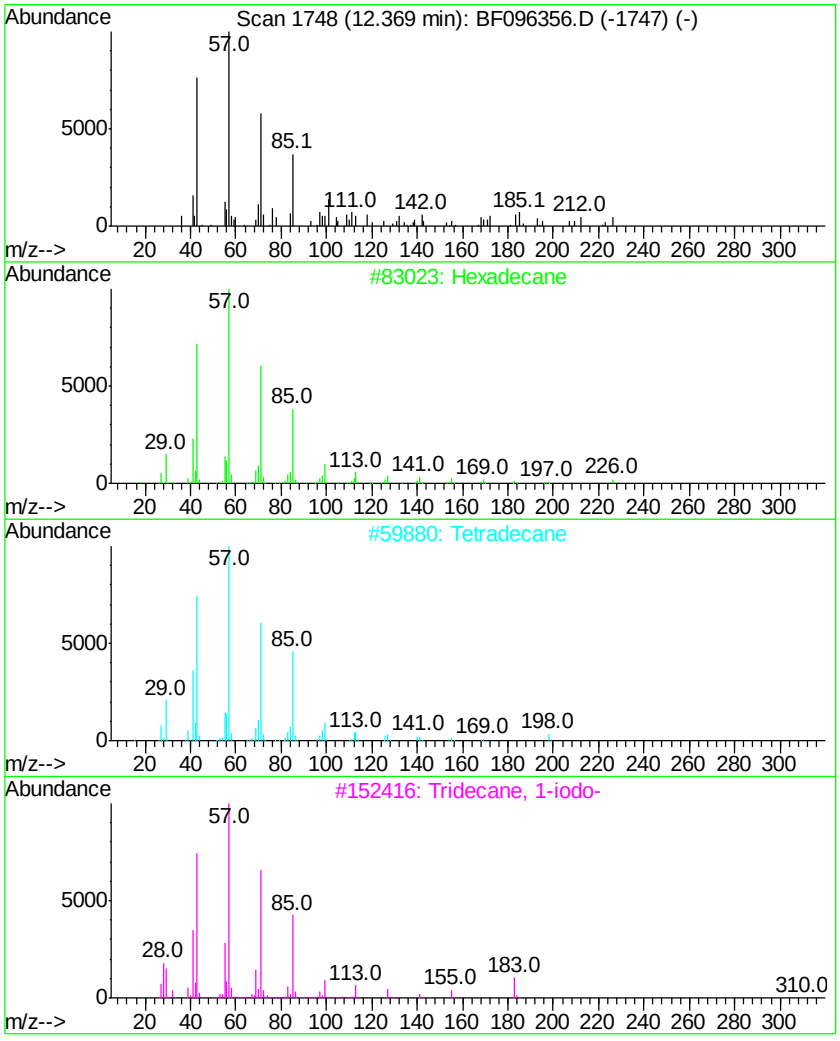
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

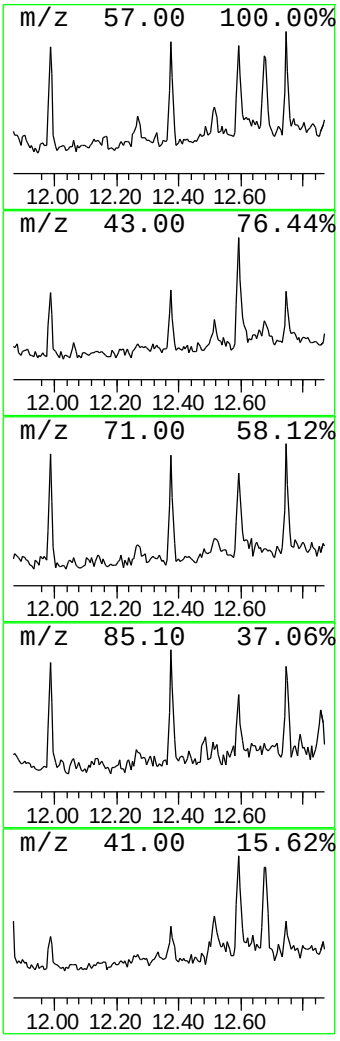
**********

Peak Number 14 Tetratetracontane Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.37 | 2.18 ng | 87479 | Phenanthrene-d10 | 11.27 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexadecane | 226 | C16H34 | 000544-76-3 | 87 |
| 2 | Tetradecane | 198 | C14H30 | 000629-59-4 | 80 |
| 3 | Tridecane, 1-iodo- | 310 | C13H27I | 035599-77-0 | 72 |
| 4 | Tetratetracontane | 619 | C44H90 | 007098-22-8 | 72 |
| 5 | Docosane | 310 | C22H46 | 000629-97-0 | 72 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF063017\
Data File : BF096356.D
Acq On : 1 Jul 2017 00:32
Operator : SJ/MA
Sample : I3930-03
Misc :
ALS Vial : 33 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** B2-4-6

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF062717.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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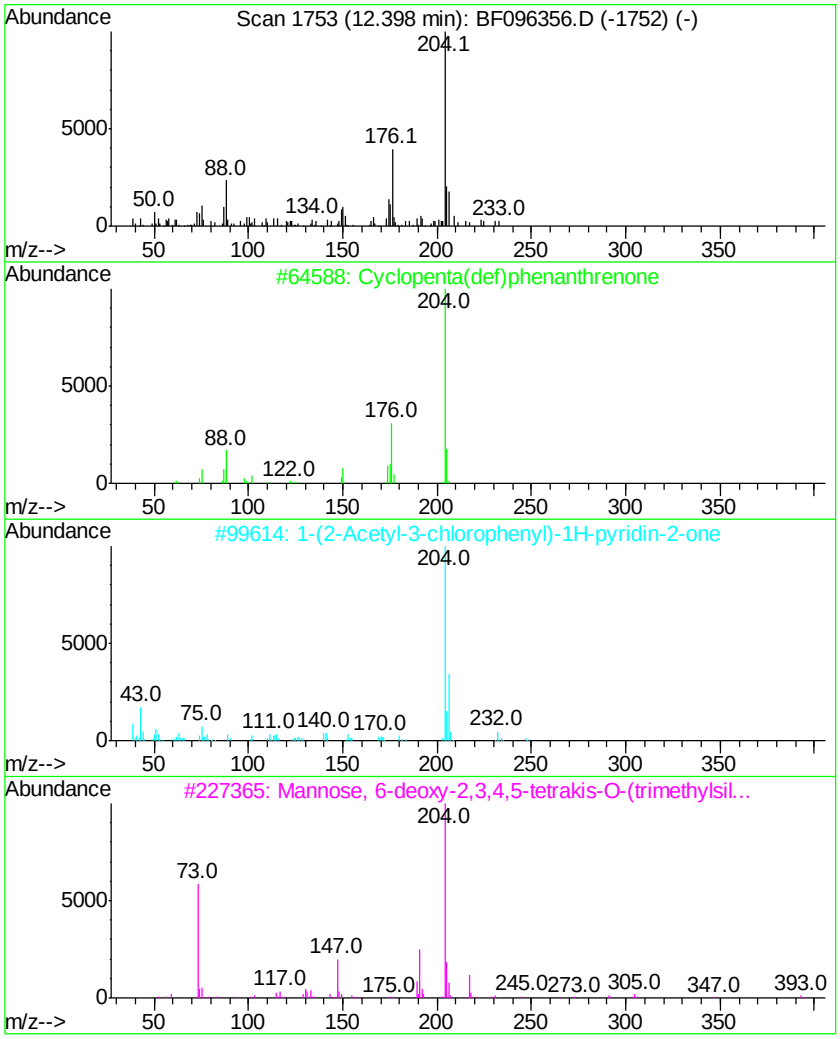
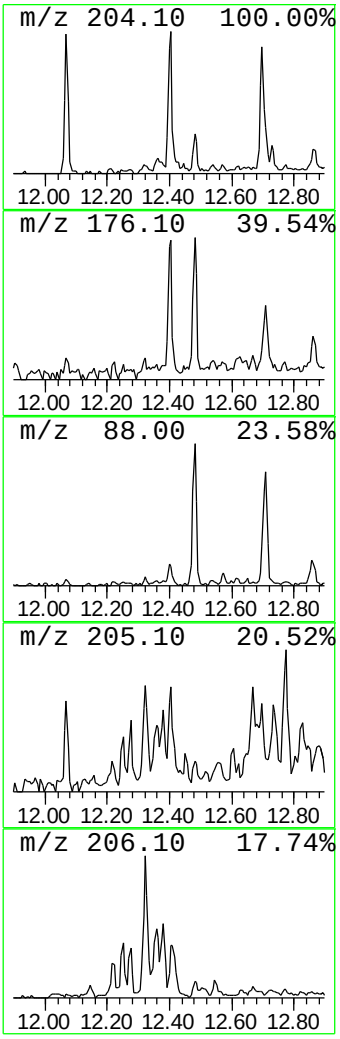
Peak Number 15 Cyclopenta(def)phenanthrenone Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.40 | 2.08 ng | 83723 | Phenanthrene-d10 | 11.27 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopenta(def)phenanthrenone | 204 | C15H8O | 005737-13-3 | 95 |
| 2 | 1-(2-Acetyl-3-chlorophenyl)-1H-p... | 247 | C13H10ClNO2 | 1000306-70-9 | 47 |
| 3 | Mannose, 6-deoxy-2,3,4,5-tetraki... | 452 | C18H44O5Si4 | 019127-15-2 | 47 |
| 4 | Tricyclo[8.2.2.2(4,7)]hexadeca-2... | 204 | C16H12 | 006572-60-7 | 46 |
| 5 | [1,1'-Biphenyl]-4,4'-dicarbonitrile | 204 | C14H8N2 | 001591-30-6 | 43 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF063017\
Data File : BF096356.D
Acq On : 1 Jul 2017 00:32
Operator : SJ/MA
Sample : I3930-03
Misc :
ALS Vial : 33 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** B2-4-6

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF062717.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

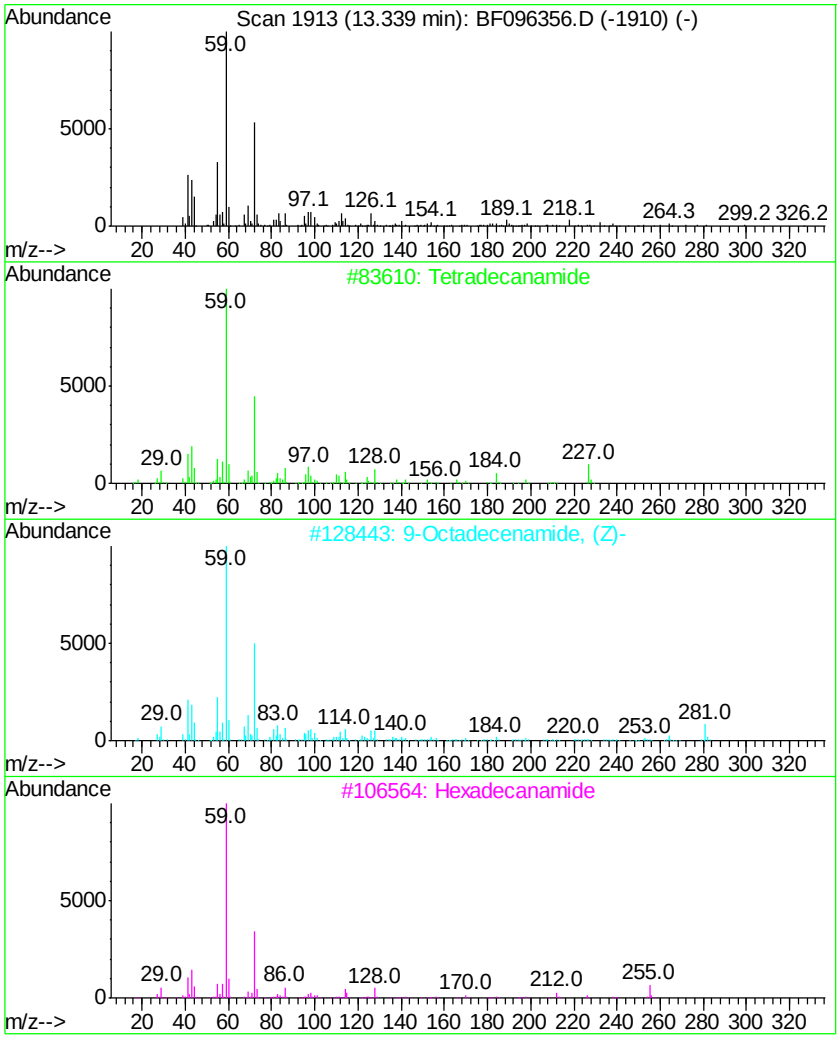
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

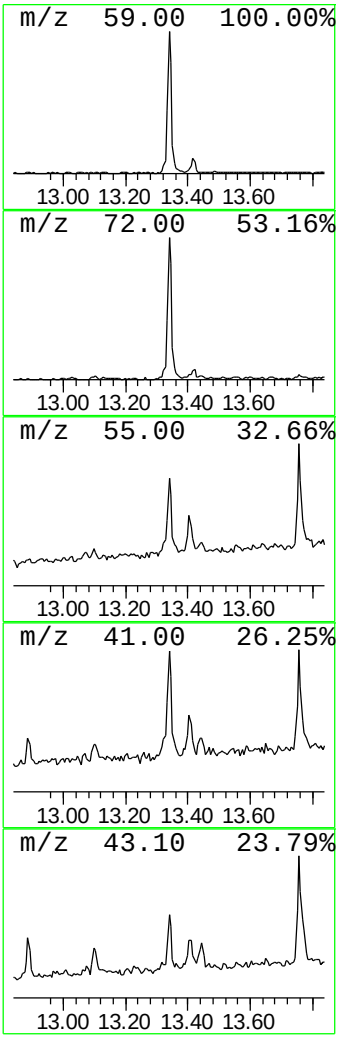
**********

Peak Number 16 Tetradecanamide Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.34 | 4.54 ng | 334895 | Chrysene-d12 | 13.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Tetradecanamide | 227 | C14H29NO | 000638-58-4 | 87 |
| 2 | 9-Octadecenamide, (Z)- | 281 | C18H35NO | 000301-02-0 | 87 |
| 3 | Hexadecanamide | 255 | C16H33NO | 000629-54-9 | 72 |
| 4 | Nonanamide | 157 | C9H19NO | 001120-07-6 | 59 |
| 5 | Dodecanamide | 199 | C12H25NO | 001120-16-7 | 45 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF063017\
Data File : BF096356.D
Acq On : 1 Jul 2017 00:32
Operator : SJ/MA
Sample : I3930-03
Misc :
ALS Vial : 33 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** B2-4-6

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF062717.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

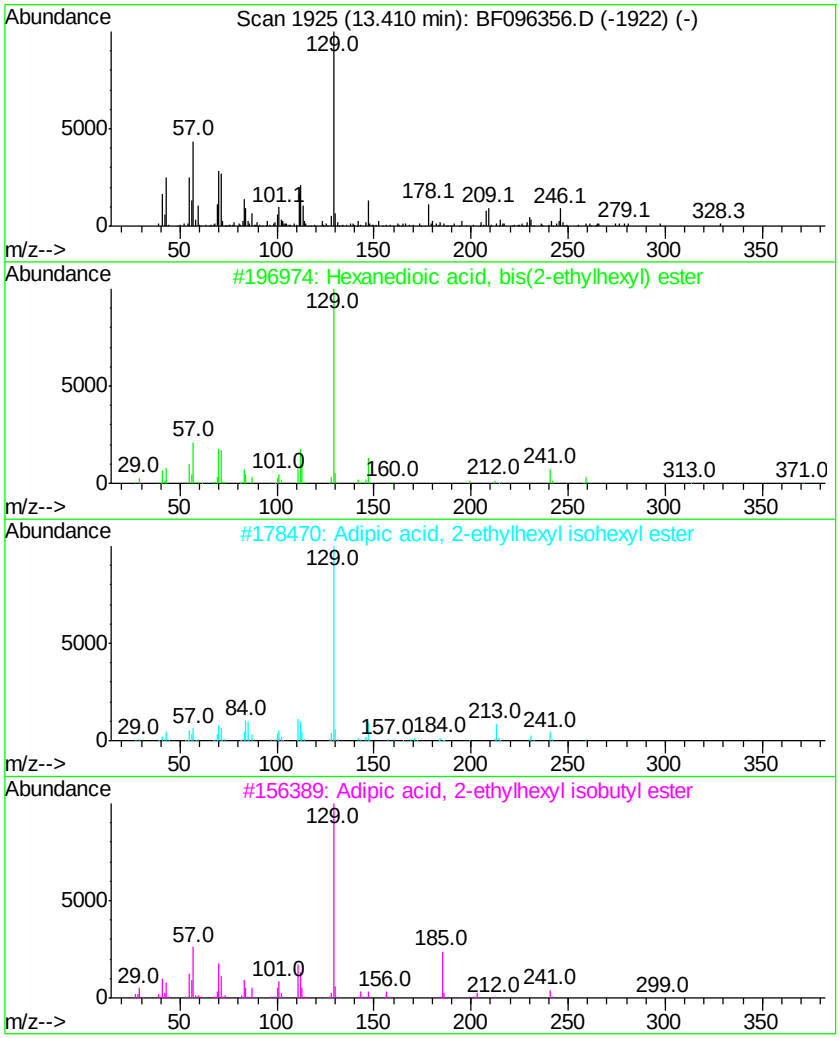
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

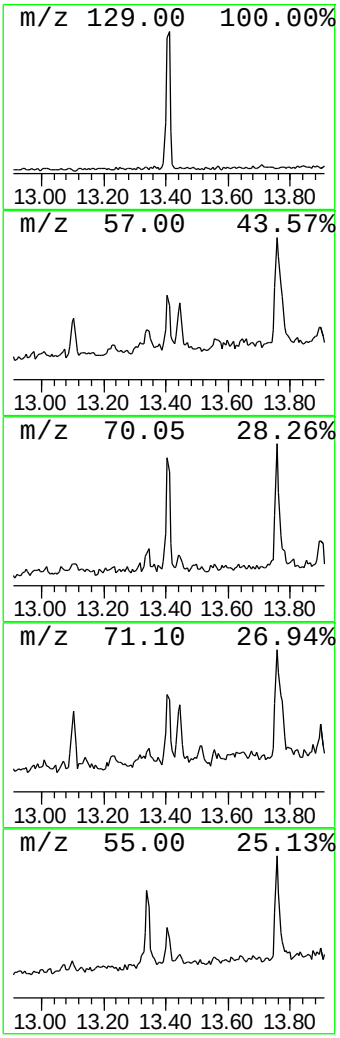
**********

Peak Number 17 Hexanedioic acid, bis(2-eth... Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.41 | 2.40 ng | 176722 | Chrysene-d12 | 13.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexanedioic acid, bis(2-ethylhex... | 370 | C22H42O4 | 000103-23-1 | 68 |
| 2 | Adipic acid, 2-ethylhexyl isohex... | 342 | C20H38O4 | 1000324-48-3 | 58 |
| 3 | Adipic acid, 2-ethylhexyl isobut... | 314 | C18H34O4 | 1000324-48-0 | 50 |
| 4 | Adipic acid, isohexyl trans-2-me... | 326 | C19H34O4 | 1000324-74-8 | 50 |
| 5 | Adipic acid, dicyclopentylmethyl... | 310 | C18H30O4 | 1000324-78-8 | 49 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF063017\
Data File : BF096356.D
Acq On : 1 Jul 2017 00:32
Operator : SJ/MA
Sample : I3930-03
Misc :
ALS Vial : 33 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** B2-4-6

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF062717.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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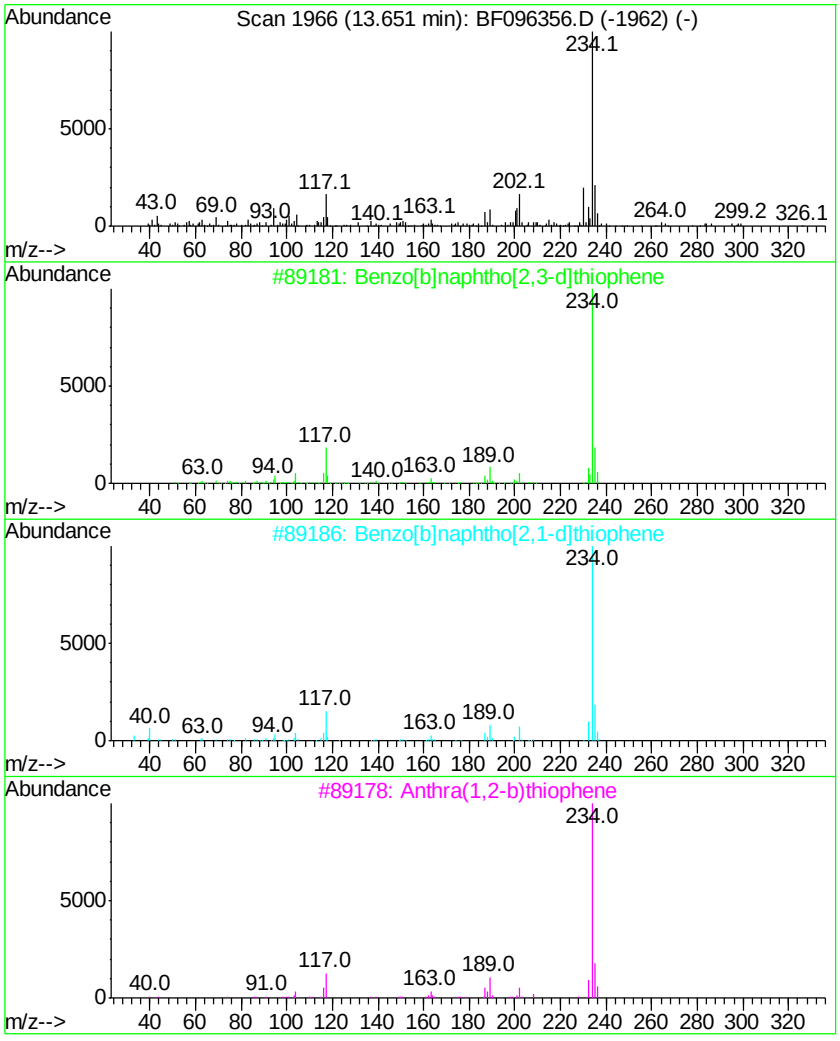
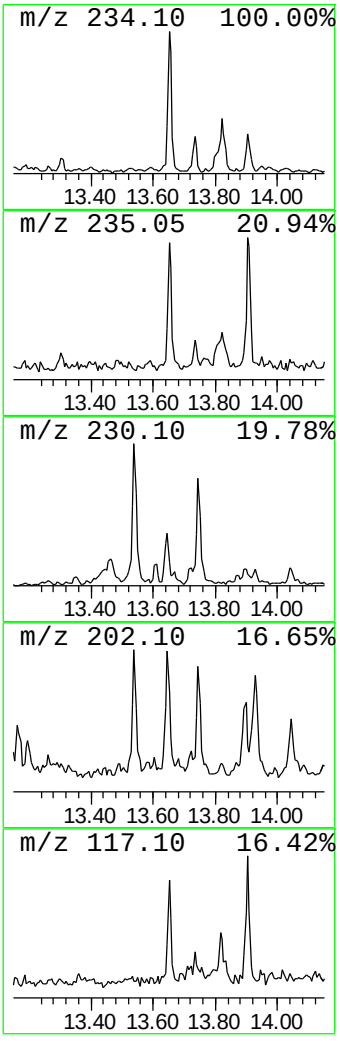
Peak Number 18 Benzo[b]naphtho[2,3-d]thiop... Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.65 | 2.38 ng | 175672 | Chrysene-d12 | 13.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzo[b]naphtho[2,3-d]thiophene | 234 | C16H10S | 000243-46-9 | 96 |
| 2 | Benzo[b]naphtho[2,1-d]thiophene | 234 | C16H10S | 000239-35-0 | 92 |
| 3 | Anthra(1,2-b)thiophene | 234 | C16H10S | 000227-86-1 | 86 |
| 4 | Anthra(2,3-b)thiophene | 234 | C16H10S | 022108-55-0 | 70 |
| 5 | Benzo[b]naphtho[1,2-d]thiophene | 234 | C16H10S | 000205-43-6 | 58 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF063017\
Data File : BF096356.D
Acq On : 1 Jul 2017 00:32
Operator : SJ/MA
Sample : I3930-03
Misc :
ALS Vial : 33 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** B2-4-6

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF062717.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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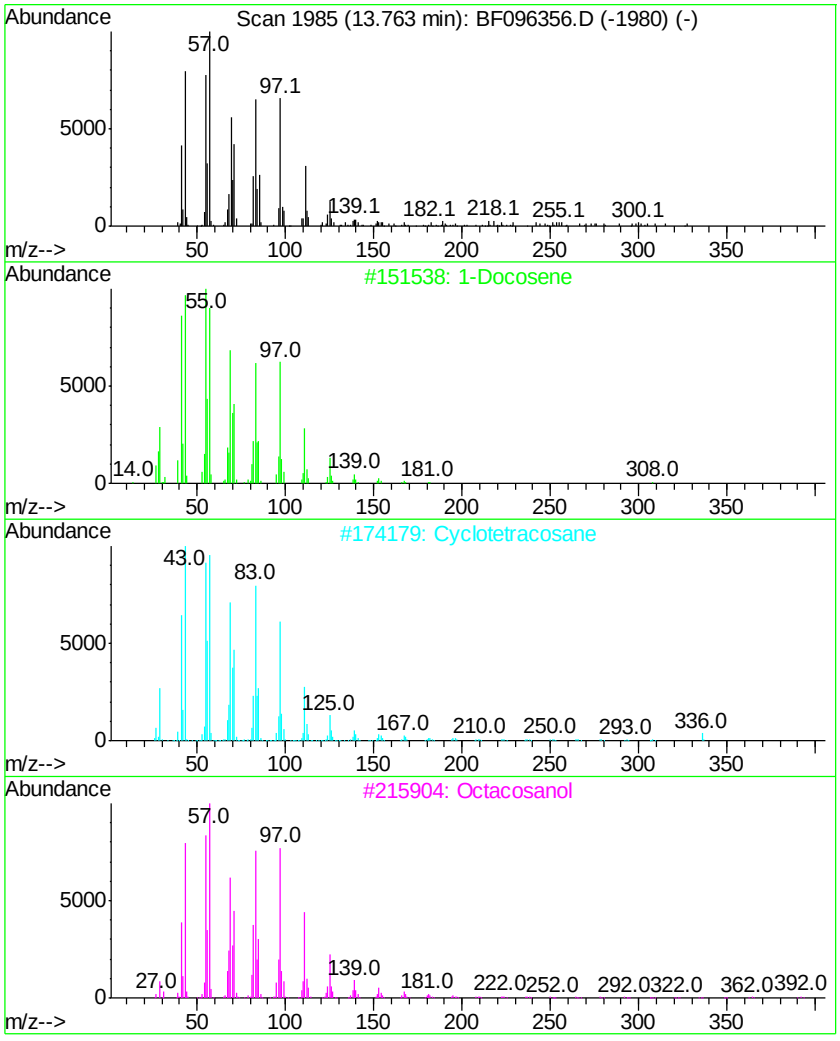
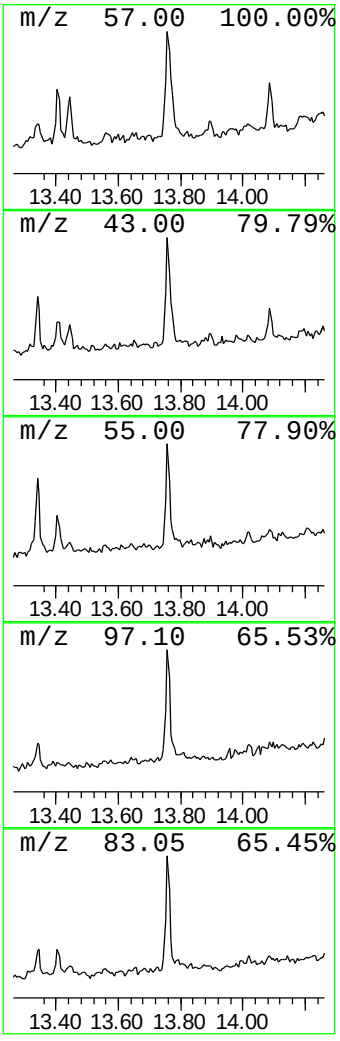
Peak Number 19 1-Docosene Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.76 | 5.00 ng | 368310 | Chrysene-d12 | 13.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Docosene | 308 | C22H44 | 001599-67-3 | 94 |
| 2 | Cyclotetracosane | 336 | C24H48 | 000297-03-0 | 94 |
| 3 | Octacosanol | 410 | C28H58O | 000557-61-9 | 90 |
| 4 | Pentafluoropropionic acid, octad... | 416 | C21H37F5O2 | 959261-25-7 | 90 |
| 5 | Pentafluoropropionic acid, hepta... | 402 | C20H35F5O2 | 959218-78-1 | 90 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF063017\
Data File : BF096356.D
Acq On : 1 Jul 2017 00:32
Operator : SJ/MA
Sample : I3930-03
Misc :
ALS Vial : 33 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** B2-4-6

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF062717.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

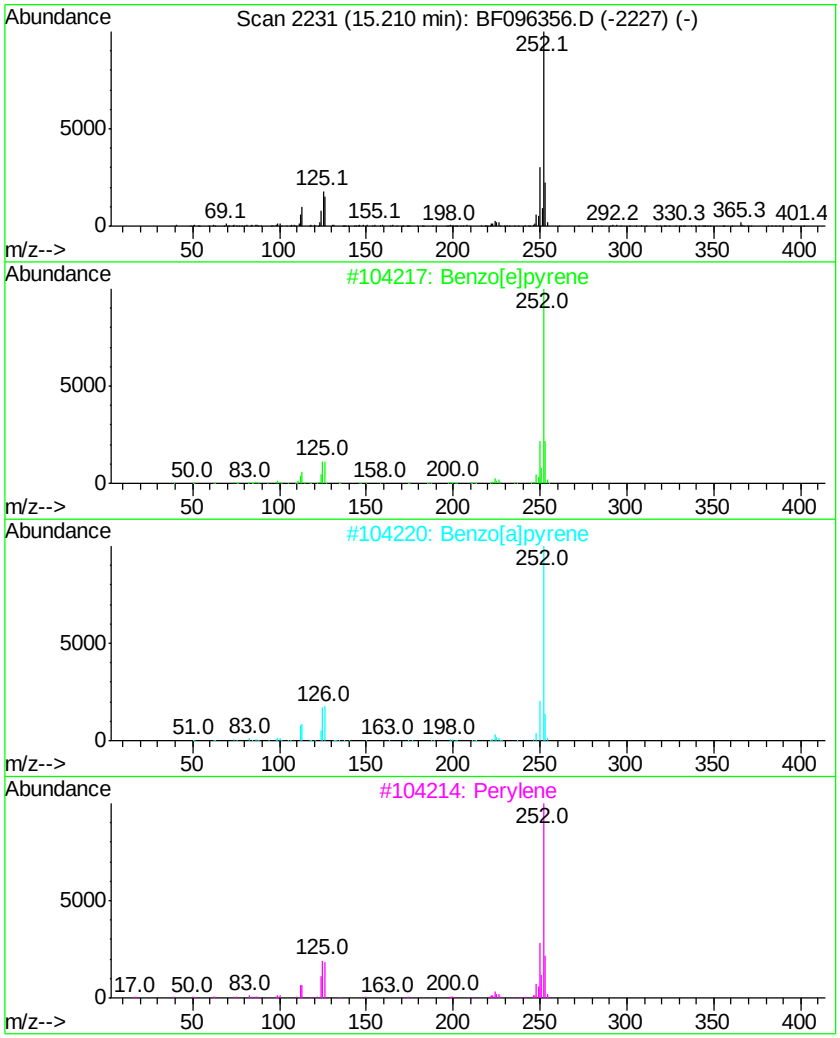
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

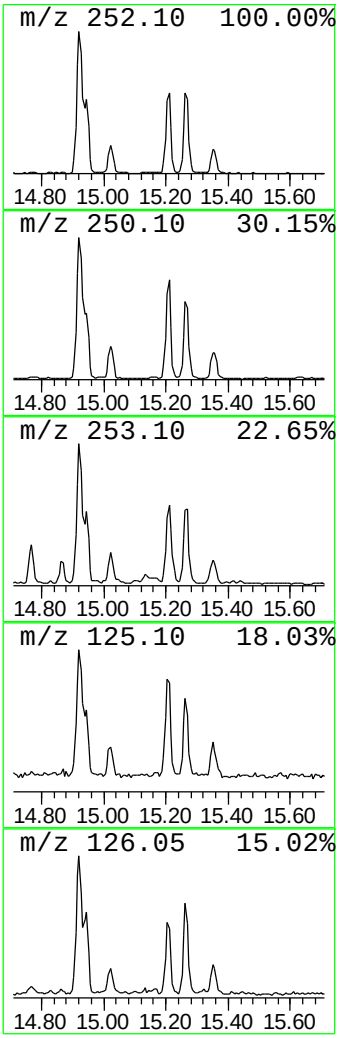
**********

Peak Number 20 Benzo[e]pyrene Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.21 | 18.44 ng | 442810 | Perylene-d12 | 15.33 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzo[e]pyrene | 252 | C20H12 | 000192-97-2 | 98 |
| 2 | Benzo[a]pyrene | 252 | C20H12 | 000050-32-8 | 96 |
| 3 | Perylene | 252 | C20H12 | 000198-55-0 | 95 |
| 4 | Benz[e]acephenanthrylene | 252 | C20H12 | 000205-99-2 | 93 |
| 5 | Benzo[j]fluoranthene | 252 | C20H12 | 000205-82-3 | 91 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF063017\
Data File : BF096356.D
Acq On : 1 Jul 2017 00:32
Operator : SJ/MA
Sample : I3930-03
Misc :
ALS Vial : 33 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** B2-4-6

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF062717.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 |
| 2-Pentanone, 4-hy... | 4.96 | 16.1 | ng | 694194 | 1 | 6.76 | 860858 | 20.0 |
| unknown6.53 | 6.53 | 86.8 | ng | 3735420 | 1 | 6.76 | 860858 | 20.0 |
| Tridecane | 9.74 | 2.2 | ng | 107318 | 3 | 9.79 | 965238 | 20.0 |
| Hexadecane | 10.24 | 2.5 | ng | 122490 | 3 | 9.79 | 965238 | 20.0 |
| n-Hexadecanoic acid | 11.82 | 11.9 | ng | 477509 | 4 | 11.27 | 803660 | 20.0 |
| Bromacil | 11.86 | 19.7 | ng | 789795 | 4 | 11.27 | 803660 | 20.0 |
| Phenanthrene, 1,7... | 12.32 | 3.0 | ng | 121779 | 4 | 11.27 | 803660 | 20.0 |
| Tetratetracontane | 12.37 | 2.2 | ng | 87479 | 4 | 11.27 | 803660 | 20.0 |
| Cyclopenta(def)ph... | 12.40 | 2.1 | ng | 83723 | 4 | 11.27 | 803660 | 20.0 |
| Tetradecanamide | 13.34 | 4.5 | ng | 334895 | 5 | 13.90 | 1474320 | 20.0 |
| Hexanedioic acid,... | 13.41 | 2.4 | ng | 176722 | 5 | 13.90 | 1474320 | 20.0 |
| Benzo[b]naphtho[2... | 13.65 | 2.4 | ng | 175672 | 5 | 13.90 | 1474320 | 20.0 |
| 1-Docosene | 13.76 | 5.0 | ng | 368310 | 5 | 13.90 | 1474320 | 20.0 |
| Benzo[e]pyrene | 15.21 | 18.4 | ng | 442810 | 6 | 15.33 | 480375 | 20.0 |