LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061218\
Data File : BF106344.D
Acq On : 12 Jun 2018 15:07
Operator : JU/SJ
Sample : J3245-03 2X
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** CL-01-061118-B

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-BF061118.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 | 5.195 | 482 | 486 | 492 | rVB | 155383 | 150500 | 7.90% | 0.539% |
| 2 | 5.589 | 549 | 553 | 556 | rBV | 1763388 | 1504735 | 78.96% | 5.393% |
| 3 | 6.589 | 718 | 723 | 729 | rBV | 1645229 | 1489106 | 78.14% | 5.337% |
| 4 | 6.736 | 744 | 748 | 752 | rVB | 1782133 | 1523613 | 79.95% | 5.460% |
| 5 | 6.972 | 784 | 788 | 791 | rVB | 1191991 | 922612 | 48.41% | 3.306% |
| 6 | 7.125 | 811 | 814 | 818 | rVB | 1451062 | 1213820 | 63.69% | 4.350% |
| 7 | 7.531 | 879 | 883 | 886 | rBV | 1062120 | 912917 | 47.90% | 3.272% |
| 8 | 8.254 | 1002 | 1006 | 1009 | rBV | 1352963 | 1078187 | 56.58% | 3.864% |
| 9 | 8.966 | 1123 | 1127 | 1131 | rVB | 76829 | 57326 | 3.01% | 0.205% |
| 10 | 9.066 | 1141 | 1144 | 1147 | rBV | 59208 | 44638 | 2.34% | 0.160% |
| 11 | 9.325 | 1184 | 1188 | 1191 | rBV | 1958544 | 1516671 | 79.58% | 5.435% |
| 12 | 9.589 | 1230 | 1233 | 1238 | rBV | 32631 | 43121 | 2.26% | 0.155% |
| 13 | 9.666 | 1242 | 1246 | 1249 | rBV | 58305 | 56365 | 2.96% | 0.202% |
| 14 | 9.719 | 1252 | 1255 | 1261 | rVB | 226991 | 195189 | 10.24% | 0.700% |
| 15 | 9.783 | 1261 | 1266 | 1267 | rBV | 31537 | 24226 | 1.27% | 0.087% |
| 16 | 9.872 | 1277 | 1281 | 1285 | rBV | 108064 | 91084 | 4.78% | 0.326% |
| 17 | 9.924 | 1286 | 1290 | 1294 | rVB3 | 37011 | 40362 | 2.12% | 0.145% |
| 18 | 10.013 | 1301 | 1305 | 1308 | rVV | 1161672 | 955208 | 50.12% | 3.423% |
| 19 | 10.042 | 1308 | 1310 | 1313 | rVB | 134705 | 102186 | 5.36% | 0.366% |
| 20 | 10.107 | 1318 | 1321 | 1326 | rBV4 | 13708 | 22240 | 1.17% | 0.080% |
| 21 | 10.213 | 1333 | 1339 | 1342 | rVB2 | 99499 | 99808 | 5.24% | 0.358% |
| 22 | 10.248 | 1342 | 1345 | 1349 | rBV | 33366 | 28609 | 1.50% | 0.103% |
| 23 | 10.324 | 1354 | 1358 | 1360 | rBV2 | 33452 | 37169 | 1.95% | 0.133% |
| 24 | 10.354 | 1360 | 1363 | 1369 | rVV | 21428 | 25760 | 1.35% | 0.092% |
| 25 | 10.430 | 1369 | 1376 | 1379 | rVB2 | 54232 | 85856 | 4.51% | 0.308% |
| 26 | 10.560 | 1394 | 1398 | 1403 | rVB | 166801 | 153594 | 8.06% | 0.550% |
| 27 | 10.624 | 1403 | 1409 | 1410 | rBV4 | 20529 | 27957 | 1.47% | 0.100% |
| 28 | 10.648 | 1410 | 1413 | 1415 | rVB | 26162 | 27246 | 1.43% | 0.098% |
| 29 | 10.713 | 1422 | 1424 | 1428 | rVB | 24013 | 22365 | 1.17% | 0.080% |
| 30 | 10.795 | 1435 | 1438 | 1442 | rBV | 908419 | 812016 | 42.61% | 2.910% |
| 31 | 10.901 | 1453 | 1456 | 1457 | rBV | 49742 | 40344 | 2.12% | 0.145% |
| 32 | 10.919 | 1457 | 1459 | 1466 | rVB2 | 48160 | 56831 | 2.98% | 0.204% |
| 33 | 11.101 | 1484 | 1490 | 1493 | rBV4 | 53093 | 76913 | 4.04% | 0.276% |
| 34 | 11.136 | 1493 | 1496 | 1499 | rVB2 | 23063 | 28364 | 1.49% | 0.102% |

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061218\
Data File : BF106344.D
Acq On : 12 Jun 2018 15:07
Operator : JU/SJ
Sample : J3245-03 2X
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** CL-01-061118-B

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-BF061118.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 11.260 | 1514 | 1517 | 1520 | rVB4 | 18424 | 21400 | 1.12% | 0.077% |
| 36 | 11.301 | 1522 | 1524 | 1527 | rVV3 | 25819 | 25311 | 1.33% | 0.091% |
| 37 | 11.348 | 1529 | 1532 | 1534 | rVV2 | 43824 | 39517 | 2.07% | 0.142% |
| 38 | 11.395 | 1538 | 1540 | 1544 | rVB | 74576 | 71176 | 3.73% | 0.255% |
| 39 | 11.501 | 1554 | 1558 | 1560 | rBV | 1174785 | 1006920 | 52.84% | 3.609% |
| 40 | 11.524 | 1560 | 1562 | 1566 | rVV | 999222 | 769406 | 40.37% | 2.757% |
| 41 | 11.577 | 1568 | 1571 | 1573 | rVV | 266003 | 213572 | 11.21% | 0.765% |
| 42 | 11.607 | 1573 | 1576 | 1579 | rVB | 38216 | 38612 | 2.03% | 0.138% |
| 43 | 11.730 | 1590 | 1597 | 1600 | rBV | 106240 | 112525 | 5.90% | 0.403% |
| 44 | 11.830 | 1611 | 1614 | 1620 | rVB | 52974 | 51756 | 2.72% | 0.185% |
| 45 | 11.913 | 1626 | 1628 | 1633 | rVB | 33457 | 34535 | 1.81% | 0.124% |
| 46 | 12.001 | 1640 | 1643 | 1646 | rBV | 143415 | 167958 | 8.81% | 0.602% |
| 47 | 12.030 | 1646 | 1648 | 1651 | rVB | 190890 | 147698 | 7.75% | 0.529% |
| 48 | 12.077 | 1653 | 1656 | 1659 | rBV | 66020 | 55994 | 2.94% | 0.201% |
| 49 | 12.118 | 1659 | 1663 | 1665 | rBV2 | 241950 | 277658 | 14.57% | 0.995% |
| 50 | 12.183 | 1671 | 1674 | 1676 | rBV3 | 30629 | 33837 | 1.78% | 0.121% |
| 51 | 12.236 | 1680 | 1683 | 1685 | rVB2 | 29331 | 28270 | 1.48% | 0.101% |
| 52 | 12.295 | 1690 | 1693 | 1695 | rVV | 95025 | 83543 | 4.38% | 0.299% |
| 53 | 12.318 | 1695 | 1697 | 1701 | rVB3 | 51192 | 59437 | 3.12% | 0.213% |
| 54 | 12.430 | 1713 | 1716 | 1717 | rBV3 | 28332 | 25609 | 1.34% | 0.092% |
| 55 | 12.448 | 1717 | 1719 | 1721 | rVV | 51778 | 37172 | 1.95% | 0.133% |
| 56 | 12.477 | 1721 | 1724 | 1726 | rVV | 59717 | 50058 | 2.63% | 0.179% |
| 57 | 12.501 | 1726 | 1728 | 1730 | rVB2 | 46388 | 34210 | 1.80% | 0.123% |
| 58 | 12.554 | 1734 | 1737 | 1739 | rBV | 123752 | 117895 | 6.19% | 0.423% |
| 59 | 12.589 | 1739 | 1743 | 1745 | rVV3 | 60243 | 82026 | 4.30% | 0.294% |
| 60 | 12.636 | 1748 | 1751 | 1755 | rBV2 | 59102 | 79934 | 4.19% | 0.286% |
| 61 | 12.718 | 1761 | 1765 | 1768 | rBV | 1310288 | 1116357 | 58.58% | 4.001% |
| 62 | 12.754 | 1768 | 1771 | 1773 | rVV2 | 157392 | 135562 | 7.11% | 0.486% |
| 63 | 12.777 | 1773 | 1775 | 1777 | rVV2 | 45683 | 38797 | 2.04% | 0.139% |
| 64 | 12.813 | 1778 | 1781 | 1783 | rVB2 | 46803 | 44833 | 2.35% | 0.161% |
| 65 | 12.871 | 1788 | 1791 | 1793 | rBV | 71980 | 63016 | 3.31% | 0.226% |
| 66 | 12.948 | 1801 | 1804 | 1810 | rVB | 1143305 | 1041110 | 54.63% | 3.731% |
| 67 | 12.995 | 1810 | 1812 | 1816 | rVB2 | 73104 | 74778 | 3.92% | 0.268% |
| 68 | 13.060 | 1821 | 1823 | 1824 | rVV2 | 60946 | 48731 | 2.56% | 0.175% |
| 69 | 13.083 | 1824 | 1827 | 1834 | rVB | 2038685 | 1807754 | 94.86% | 6.479% |
| 70 | 13.160 | 1836 | 1840 | 1844 | rBV3 | 96136 | 167018 | 8.76% | 0.599% |
| 71 | 13.248 | 1852 | 1855 | 1856 | rBV3 | 63698 | 67313 | 3.53% | 0.241% |

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061218\
Data File : BF106344.D
Acq On : 12 Jun 2018 15:07
Operator : JU/SJ
Sample : J3245-03 2X
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** CL-01-061118-B

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-BF061118.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 13.271 | 1856 | 1859 | 1862 | rVB | 240947 | 225022 | 11.81% | 0.806% |
| 73 | 13.301 | 1862 | 1864 | 1866 | rBV3 | 35461 | 28109 | 1.47% | 0.101% |
| 74 | 13.342 | 1868 | 1871 | 1873 | rBV | 186993 | 163650 | 8.59% | 0.586% |
| 75 | 13.377 | 1874 | 1877 | 1880 | rBV2 | 134145 | 131185 | 6.88% | 0.470% |
| 76 | 13.471 | 1891 | 1893 | 1896 | rBV | 103860 | 77626 | 4.07% | 0.278% |
| 77 | 13.501 | 1896 | 1898 | 1901 | rVV | 88970 | 83227 | 4.37% | 0.298% |
| 78 | 13.901 | 1964 | 1966 | 1968 | rVB | 107937 | 85823 | 4.50% | 0.308% |
| 79 | 13.930 | 1968 | 1971 | 1973 | rVB2 | 72869 | 56703 | 2.98% | 0.203% |
| 80 | 13.971 | 1973 | 1978 | 1987 | rBV5 | 230141 | 437862 | 22.98% | 1.569% |
| 81 | 14.160 | 2005 | 2010 | 2012 | rBV2 | 1452556 | 1905725 | 100.00% | 6.830% |
| 82 | 14.183 | 2012 | 2014 | 2021 | rVB | 612111 | 555084 | 29.13% | 1.989% |
| 83 | 14.265 | 2026 | 2028 | 2030 | rBV | 88999 | 73576 | 3.86% | 0.264% |
| 84 | 15.248 | 2192 | 2195 | 2199 | rBV | 365525 | 572897 | 30.06% | 2.053% |
| 85 | 15.571 | 2248 | 2250 | 2256 | rVB | 247638 | 323286 | 16.96% | 1.159% |
| 86 | 15.642 | 2258 | 2262 | 2267 | rBV | 307789 | 409422 | 21.48% | 1.467% |
| 87 | 15.712 | 2269 | 2274 | 2278 | rBV | 709142 | 1035783 | 54.35% | 3.712% |

Sum of corrected areas: 27903216

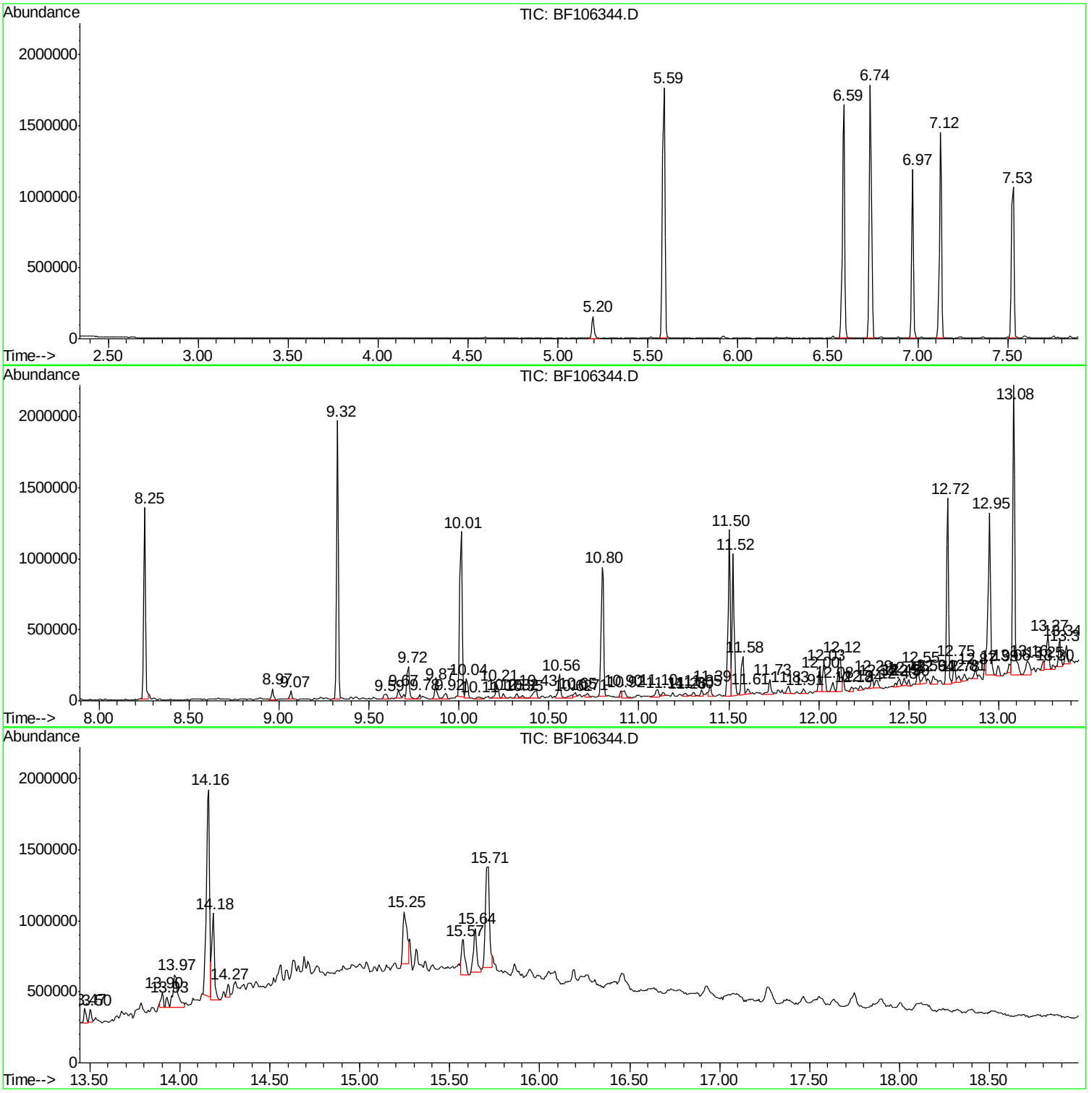
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061218\
Data File : BF106344.D
Acq On : 12 Jun 2018 15:07
Operator : JU/SJ
Sample : J3245-03 2X
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
CL-01-061118-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061118.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\BF061218\
Data File : BF106344.D
Acq On : 12 Jun 2018 15:07
Operator : JU/SJ
Sample : J3245-03 2X
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** CL-01-061118-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061118.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

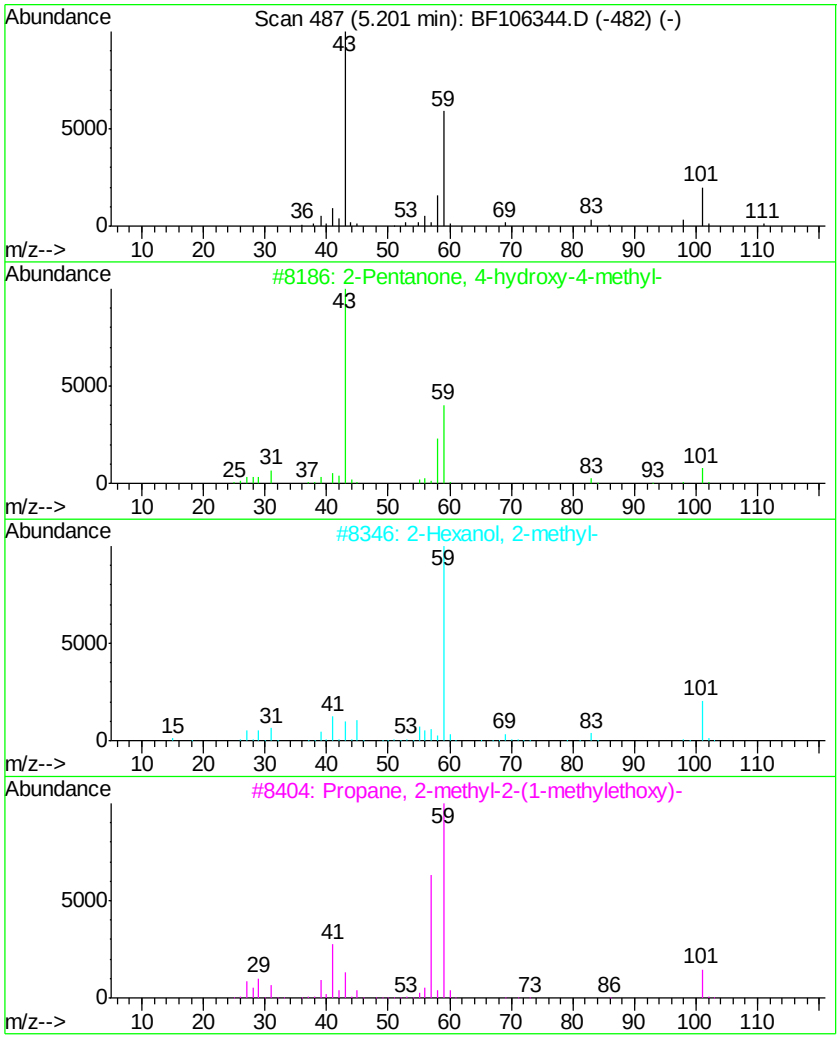
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

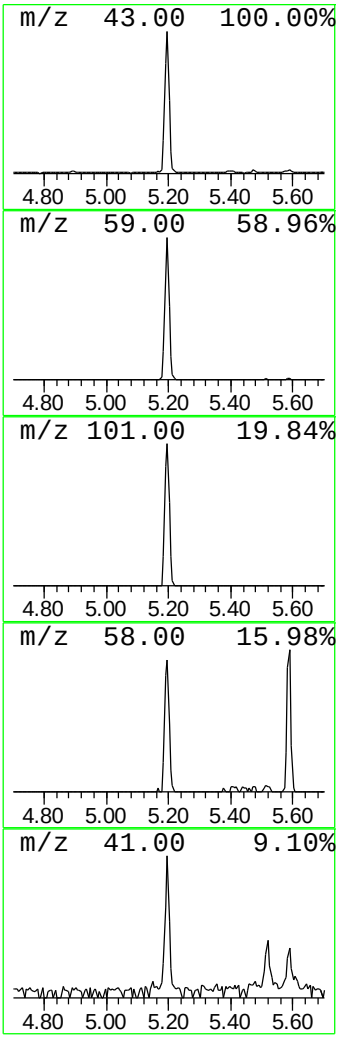
**********

Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.20 | 3.26 ng | 150500 | 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 | 50 |
| 2 | 2-Hexanol, 2-methyl- | 116 | C7H16O | 000625-23-0 | 38 |
| 3 | Propane, 2-methyl-2-(1-methyleth... | 116 | C7H16O | 017348-59-3 | 36 |
| 4 | 3-Hexanol, 4-methyl- | 116 | C7H16O | 000615-29-2 | 33 |
| 5 | 3-Octanol | 130 | C8H18O | 000589-98-0 | 33 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061218\
Data File : BF106344.D
Acq On : 12 Jun 2018 15:07
Operator : JU/SJ
Sample : J3245-03 2X
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** CL-01-061118-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061118.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

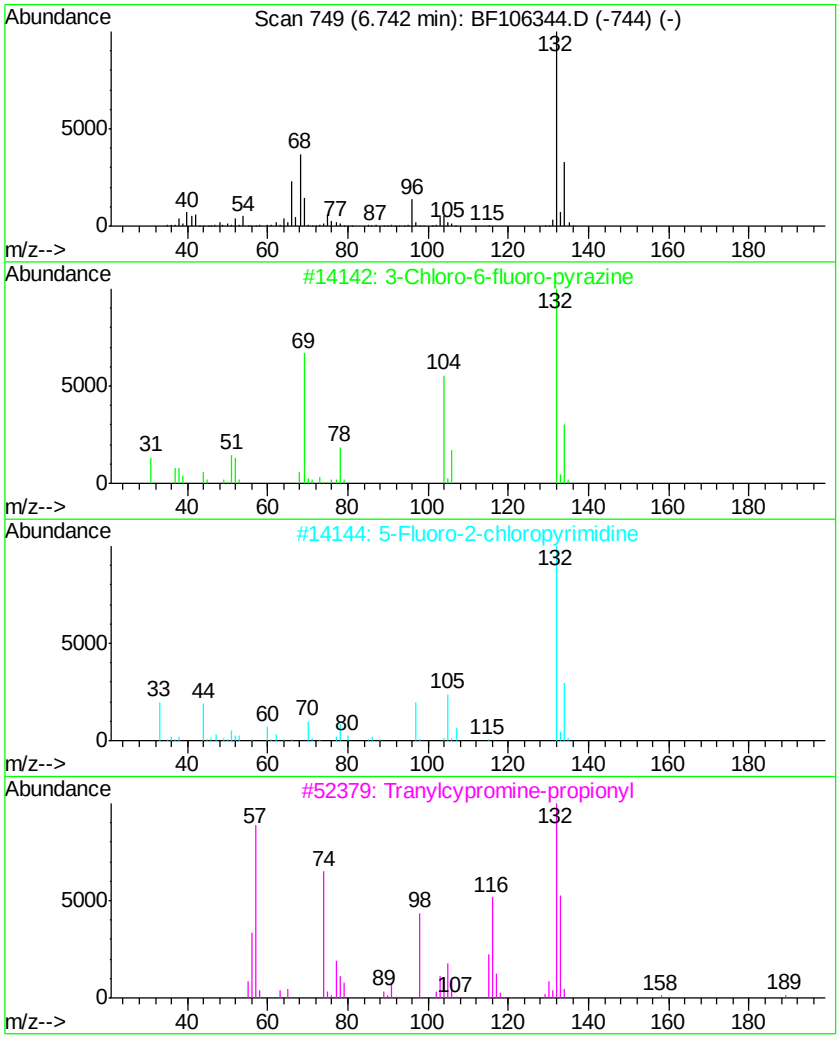
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

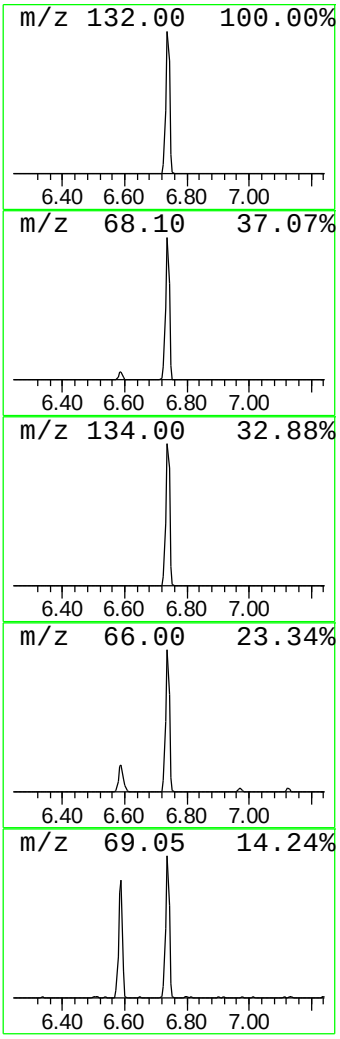
**********

Peak Number 2 unknown6.74 Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.74 | 33.03 ng | 1523610 | 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 | 27 |
| 2 | 5-Fluoro-2-chloropyrimidine | 132 | C4H2ClFN2 | 062802-42-0 | 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 | 4-Methylpyrrolo[1,2-a]pyrazine | 132 | C8H8N2 | 064608-60-2 | 9 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061218\
Data File : BF106344.D
Acq On : 12 Jun 2018 15:07
Operator : JU/SJ
Sample : J3245-03 2X
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** CL-01-061118-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061118.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

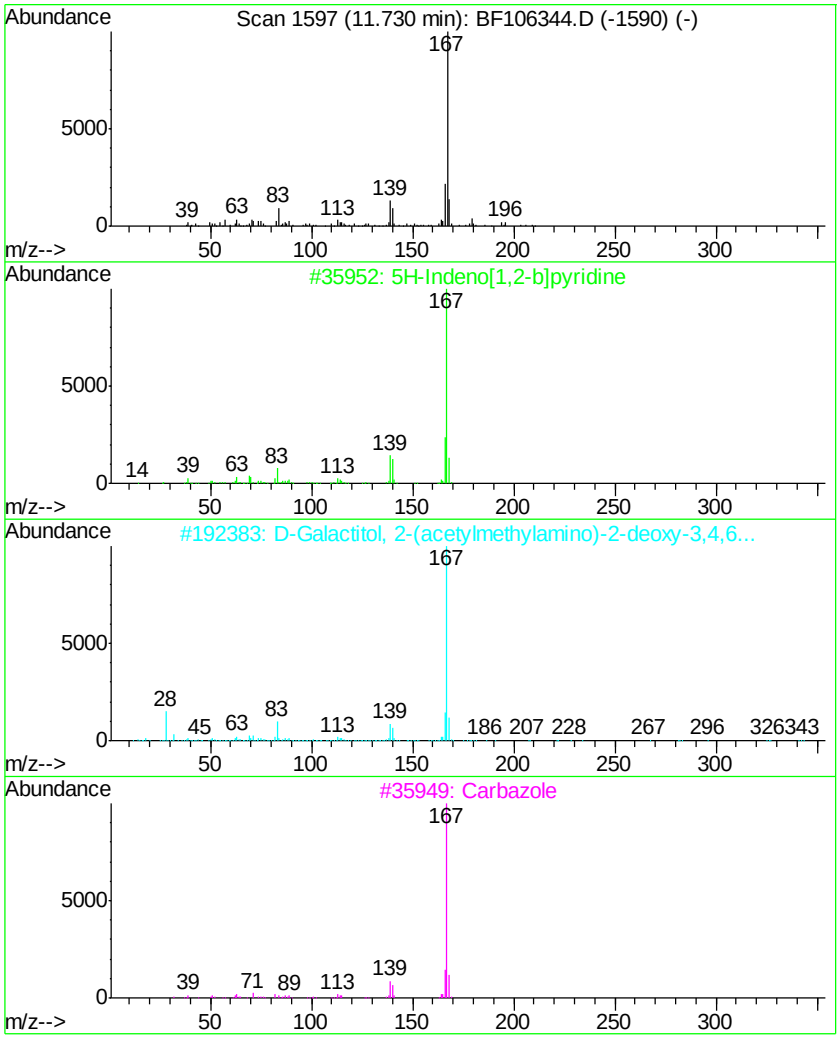
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

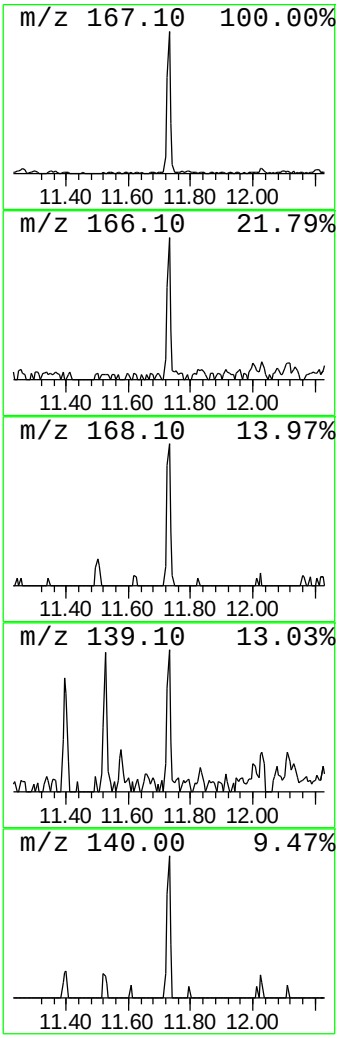
**********

Peak Number 5 5H-Indeno[1,2-b]pyridine Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.73 | 2.24 ng | 112525 | Phenanthrene-d10 | 11.50 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 5H-Indeno[1,2-b]pyridine | 167 | C12H9N | 000244-99-5 | 94 |
| 2 | D-Galactitol, 2-(acetylmethylami... | 363 | C16H29NO8 | 074410-42-7 | 87 |
| 3 | Carbazole | 167 | C12H9N | 000086-74-8 | 87 |
| 4 | 9H-Carbazole, 9-nitroso- | 196 | C12H8N2O | 002788-23-0 | 80 |
| 5 | 9H-Carbazole-9-methanol | 197 | C13H11NO | 002409-36-1 | 72 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061218\
Data File : BF106344.D
Acq On : 12 Jun 2018 15:07
Operator : JU/SJ
Sample : J3245-03 2X
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** CL-01-061118-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061118.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

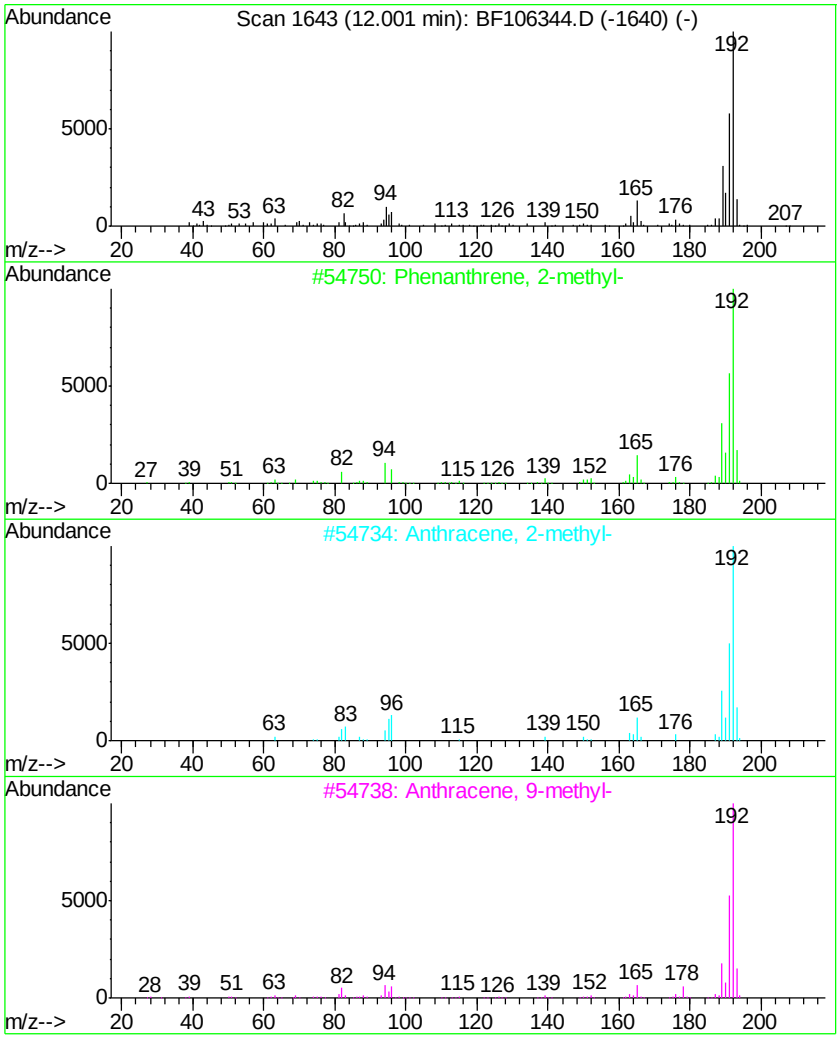
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

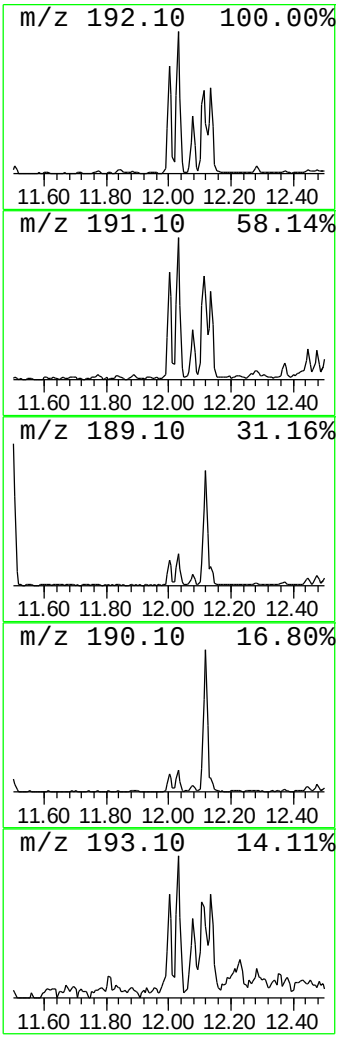
**********

Peak Number 6 Phenanthrene, 2-methyl- Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.00 | 3.34 ng | 167958 | Phenanthrene-d10 | 11.50 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 93 |
| 2 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 87 |
| 3 | Anthracene, 9-methyl- | 192 | C15H12 | 000779-02-2 | 87 |
| 4 | 1H-Cyclopropa[l]phenanthrene,1a,... | 192 | C15H12 | 000949-41-7 | 87 |
| 5 | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 87 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061218\
Data File : BF106344.D
Acq On : 12 Jun 2018 15:07
Operator : JU/SJ
Sample : J3245-03 2X
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** CL-01-061118-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061118.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

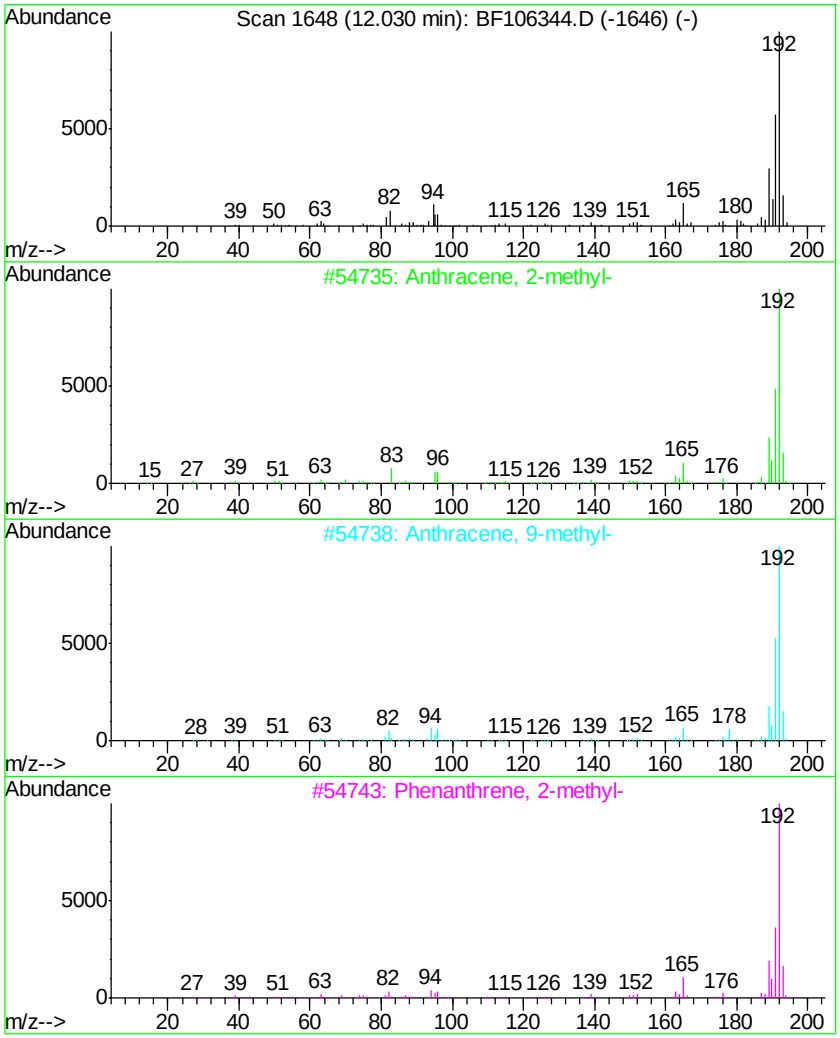
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

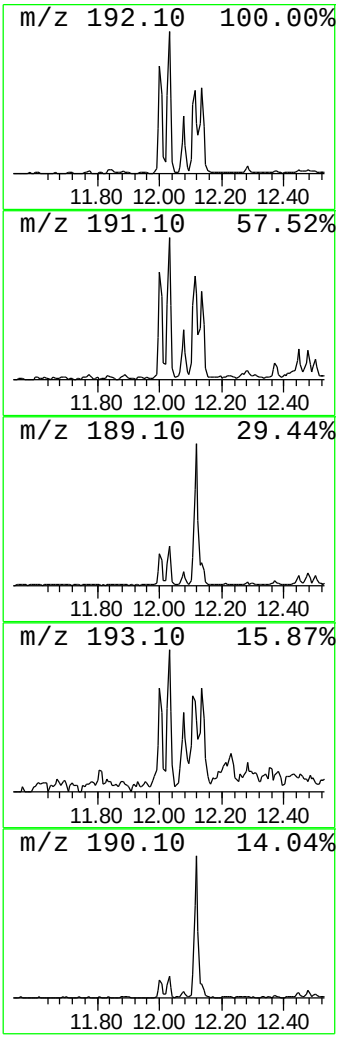
**********

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

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.03 | 2.93 ng | 147698 | Phenanthrene-d10 | 11.50 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 96 |
| 2 | Anthracene, 9-methyl- | 192 | C15H12 | 000779-02-2 | 96 |
| 3 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 95 |
| 4 | 1H-Cyclopropa[l]phenanthrene,1a,... | 192 | C15H12 | 000949-41-7 | 95 |
| 5 | 1H-Indene, 1-phenyl- | 192 | C15H12 | 001961-96-2 | 94 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061218\
Data File : BF106344.D
Acq On : 12 Jun 2018 15:07
Operator : JU/SJ
Sample : J3245-03 2X
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** CL-01-061118-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061118.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

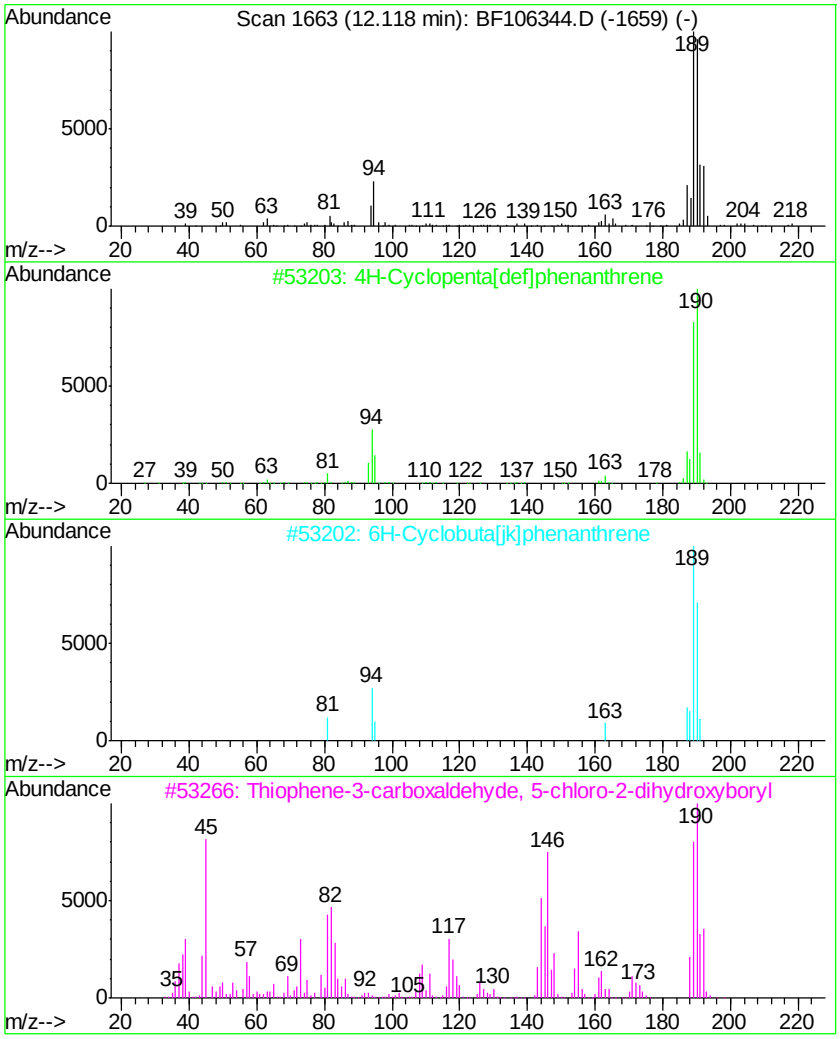
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

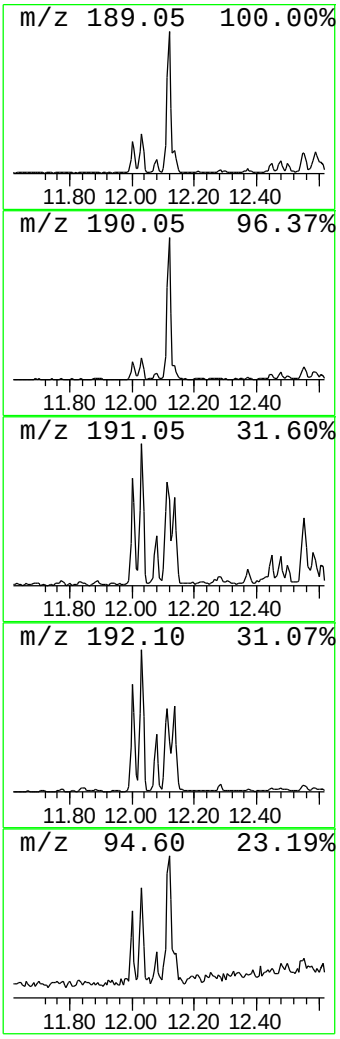
**********

Peak Number 8 4H-Cyclopenta[def]phenanthrene Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.12 | 5.52 ng | 277658 | Phenanthrene-d10 | 11.50 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 94 |
| 2 | 6H-Cyclobuta[jk]phenanthrene | 190 | C15H10 | 083469-43-6 | 64 |
| 3 | Thiophene-3-carboxaldehyde, 5-ch... | 190 | C5H4BClO3S | 036155-87-0 | 52 |
| 4 | 2,3,5,6-Tetramethylterephthalald... | 190 | C12H14O2 | 007072-01-7 | 47 |
| 5 | 2,2'-Bis(4,5-dimethylimidazole) | 190 | C10H14N4 | 069286-06-2 | 40 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061218\
Data File : BF106344.D
Acq On : 12 Jun 2018 15:07
Operator : JU/SJ
Sample : J3245-03 2X
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** CL-01-061118-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061118.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

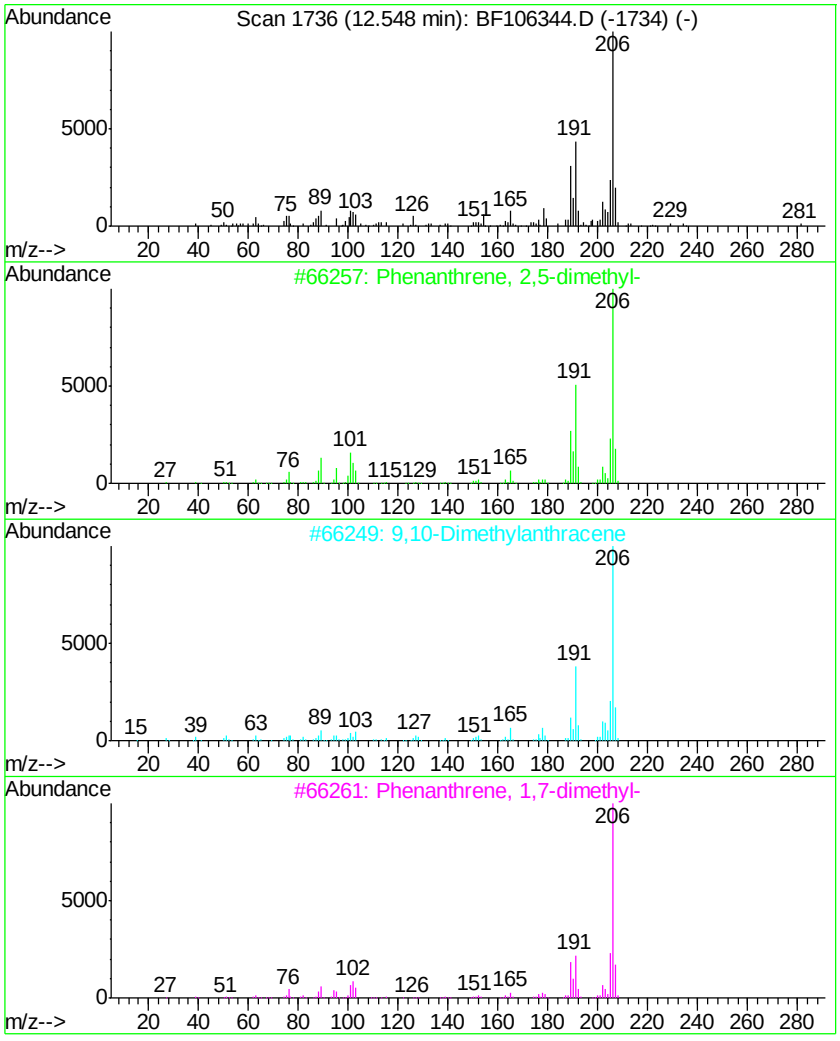
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

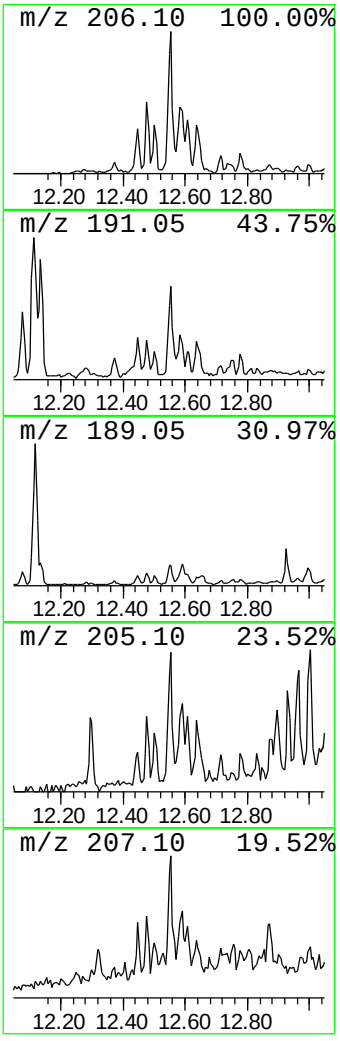
**********

Peak Number 9 Phenanthrene, 2,5-dimethyl- Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.55 | 2.34 ng | 117895 | Phenanthrene-d10 | 11.50 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 2,5-dimethyl- | 206 | C16H14 | 003674-66-6 | 97 |
| 2 | 9,10-Dimethylanthracene | 206 | C16H14 | 000781-43-1 | 96 |
| 3 | Phenanthrene, 1,7-dimethyl- | 206 | C16H14 | 000483-87-4 | 93 |
| 4 | Phenanthrene, 3,6-dimethyl- | 206 | C16H14 | 001576-67-6 | 90 |
| 5 | di-p-Tolylacetylene | 206 | C16H14 | 002789-88-0 | 90 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061218\
Data File : BF106344.D
Acq On : 12 Jun 2018 15:07
Operator : JU/SJ
Sample : J3245-03 2X
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** CL-01-061118-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061118.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

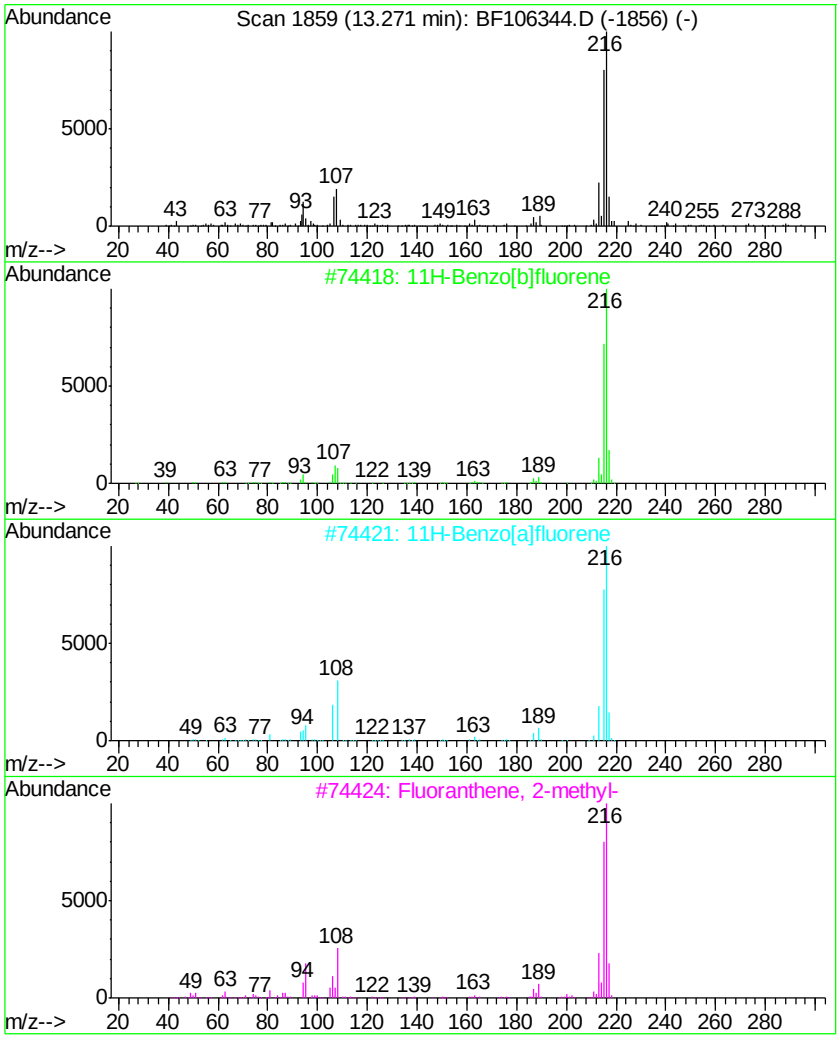
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

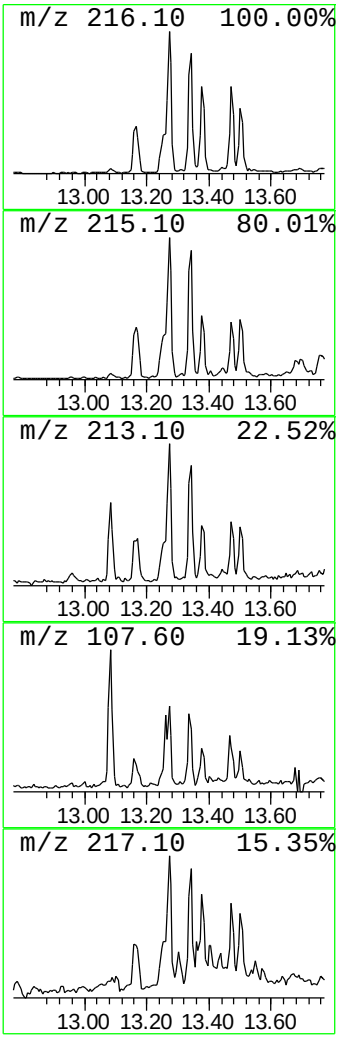
**********

Peak Number 10 11H-Benzo[b]fluorene Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.27 | 2.36 ng | 225022 | Chrysene-d12 | 14.16 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 87 |
| 2 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 81 |
| 3 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 81 |
| 4 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 64 |
| 5 | 1,3,5-Triazine-2,4,6-triamine, N... | 216 | C10H12N6 | 046731-79-7 | 59 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061218\
Data File : BF106344.D
Acq On : 12 Jun 2018 15:07
Operator : JU/SJ
Sample : J3245-03 2X
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** CL-01-061118-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061118.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

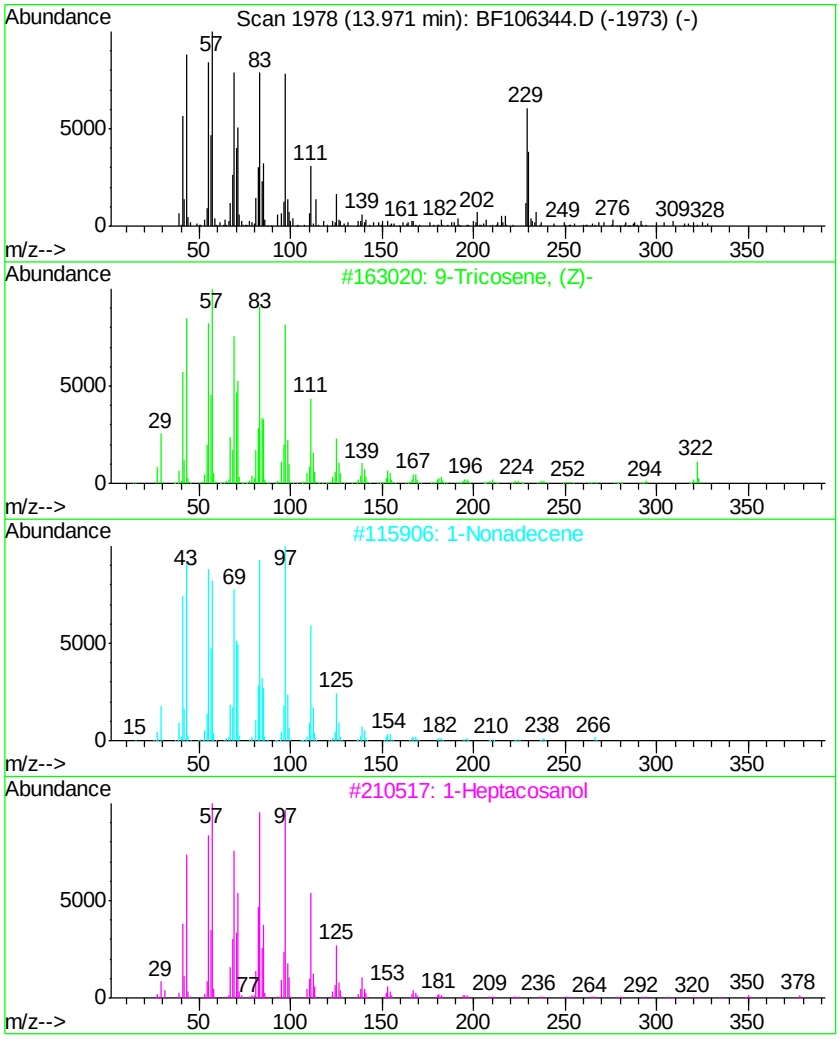
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

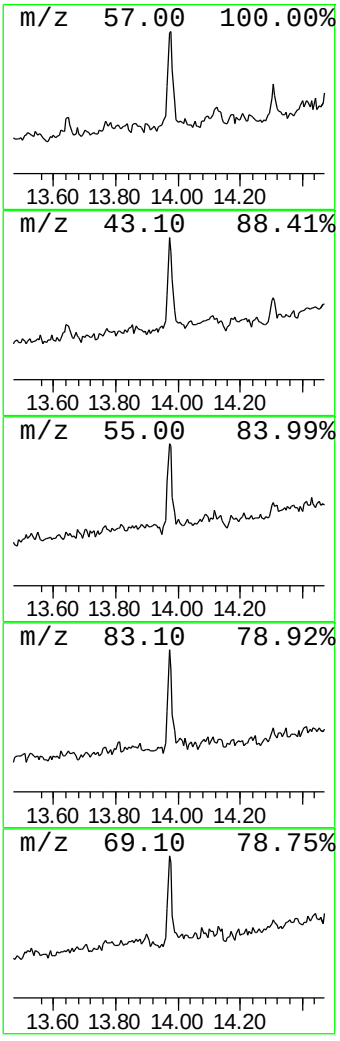
**********

Peak Number 11 9-Tricosene, (Z)- Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.97 | 4.60 ng | 437862 | Chrysene-d12 | 14.16 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 9-Tricosene, (Z)- | 322 | C23H46 | 027519-02-4 | 86 |
| 2 | 1-Nonadecene | 266 | C19H38 | 018435-45-5 | 76 |
| 3 | 1-Heptacosanol | 396 | C27H56O | 002004-39-9 | 74 |
| 4 | n-Tetracosanol-1 | 354 | C24H50O | 000506-51-4 | 74 |
| 5 | 1-Hexadecanol | 242 | C16H34O | 036653-82-4 | 70 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF061218\
Data File : BF106344.D
Acq On : 12 Jun 2018 15:07
Operator : JU/SJ
Sample : J3245-03 2X
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** CL-01-061118-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061118.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... | 5.20 | 3.3 | ng | 150500 | 1 | 6.97 | 922612 | 20.0 |
| unknown6.74 | 6.74 | 33.0 | ng | 1523610 | 1 | 6.97 | 922612 | 20.0 |
| 5H-Indeno[1,2-b]p... | 11.73 | 2.2 | ng | 112525 | 4 | 11.50 | 1006920 | 20.0 |
| Phenanthrene, 2-m... | 12.00 | 3.3 | ng | 167958 | 4 | 11.50 | 1006920 | 20.0 |
| Anthracene, 2-met... | 12.03 | 2.9 | ng | 147698 | 4 | 11.50 | 1006920 | 20.0 |
| 4H-Cyclopenta[def... | 12.12 | 5.5 | ng | 277658 | 4 | 11.50 | 1006920 | 20.0 |
| Phenanthrene, 2,5... | 12.55 | 2.3 | ng | 117895 | 4 | 11.50 | 1006920 | 20.0 |
| 11H-Benzo[b]fluorene | 13.27 | 2.4 | ng | 225022 | 5 | 14.16 | 1905730 | 20.0 |
| 9-Tricosene, (Z)- | 13.97 | 4.6 | ng | 437862 | 5 | 14.16 | 1905730 | 20.0 |