LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073020\
Data File : BF121142.D
Acq On : 30 Jul 2020 22:23
Operator : JU/CG
Sample : L3436-21 5X
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 21

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-BF071620.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 | 5.410 | 561 | 565 | 581 | rVB | 447927 | 453592 | 33.33% | 2.372% |
| 2 | 6.434 | 735 | 739 | 753 | rBV | 518781 | 488548 | 35.89% | 2.555% |
| 3 | 6.634 | 768 | 773 | 777 | rBV4 | 21714 | 26775 | 1.97% | 0.140% |
| 4 | 6.798 | 797 | 801 | 808 | rBV | 991300 | 783179 | 57.54% | 4.096% |
| 5 | 7.057 | 841 | 845 | 852 | rBV2 | 18240 | 23453 | 1.72% | 0.123% |
| 6 | 7.357 | 893 | 896 | 901 | rBV | 347671 | 276202 | 20.29% | 1.445% |
| 7 | 7.822 | 973 | 975 | 981 | rBV4 | 13546 | 25260 | 1.86% | 0.132% |
| 8 | 7.957 | 995 | 998 | 1001 | rBV3 | 14808 | 18810 | 1.38% | 0.098% |
| 9 | 8.081 | 1014 | 1019 | 1022 | rBV | 1177523 | 1064771 | 78.23% | 5.569% |
| 10 | 8.104 | 1022 | 1023 | 1026 | rVB | 142575 | 76422 | 5.61% | 0.400% |
| 11 | 8.504 | 1088 | 1091 | 1093 | rBV2 | 18342 | 17814 | 1.31% | 0.093% |
| 12 | 8.586 | 1102 | 1105 | 1109 | rBV5 | 18592 | 18918 | 1.39% | 0.099% |
| 13 | 8.675 | 1117 | 1120 | 1123 | rBV3 | 27586 | 25102 | 1.84% | 0.131% |
| 14 | 8.798 | 1138 | 1141 | 1144 | rVB | 90428 | 74976 | 5.51% | 0.392% |
| 15 | 8.892 | 1154 | 1157 | 1162 | rBV2 | 66999 | 70023 | 5.14% | 0.366% |
| 16 | 9.039 | 1178 | 1182 | 1186 | rBV6 | 10341 | 18530 | 1.36% | 0.097% |
| 17 | 9.104 | 1191 | 1193 | 1198 | rVV3 | 22755 | 22993 | 1.69% | 0.120% |
| 18 | 9.157 | 1199 | 1202 | 1207 | rVV | 824084 | 625274 | 45.94% | 3.270% |
| 19 | 9.239 | 1212 | 1216 | 1218 | rBV | 47193 | 45683 | 3.36% | 0.239% |
| 20 | 9.357 | 1234 | 1236 | 1242 | rVB | 24654 | 27453 | 2.02% | 0.144% |
| 21 | 9.428 | 1242 | 1248 | 1251 | rBV | 73026 | 107286 | 7.88% | 0.561% |
| 22 | 9.498 | 1257 | 1260 | 1262 | rBV | 116620 | 99389 | 7.30% | 0.520% |
| 23 | 9.522 | 1262 | 1264 | 1267 | rVV | 71355 | 63964 | 4.70% | 0.335% |
| 24 | 9.551 | 1267 | 1269 | 1273 | rVV2 | 107758 | 125773 | 9.24% | 0.658% |
| 25 | 9.616 | 1277 | 1280 | 1285 | rVB | 63158 | 71718 | 5.27% | 0.375% |
| 26 | 9.698 | 1291 | 1294 | 1298 | rBV | 165569 | 142780 | 10.49% | 0.747% |
| 27 | 9.769 | 1305 | 1306 | 1309 | rVB | 30392 | 19917 | 1.46% | 0.104% |
| 28 | 9.839 | 1312 | 1318 | 1321 | rBV | 1388825 | 1165704 | 85.65% | 6.097% |
| 29 | 9.875 | 1321 | 1324 | 1327 | rVV | 132596 | 122999 | 9.04% | 0.643% |
| 30 | 9.904 | 1327 | 1329 | 1333 | rVB4 | 23078 | 21121 | 1.55% | 0.110% |
| 31 | 9.945 | 1333 | 1336 | 1340 | rBV2 | 38532 | 49740 | 3.65% | 0.260% |
| 32 | 9.998 | 1340 | 1345 | 1347 | rBV5 | 18441 | 31392 | 2.31% | 0.164% |
| 33 | 10.045 | 1349 | 1353 | 1357 | rVB | 122861 | 121066 | 8.90% | 0.633% |
| 34 | 10.080 | 1357 | 1359 | 1364 | rBV2 | 55298 | 53327 | 3.92% | 0.279% |

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073020\
Data File : BF121142.D
Acq On : 30 Jul 2020 22:23
Operator : JU/CG
Sample : L3436-21 5X
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 21

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-BF071620.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 10.157 | 1368 | 1372 | 1375 | rBV2 | 69457 | 78353 | 5.76% | 0.410% |
| 36 | 10.186 | 1375 | 1377 | 1379 | rVB | 41092 | 30012 | 2.21% | 0.157% |
| 37 | 10.245 | 1383 | 1387 | 1389 | rBV3 | 49888 | 62016 | 4.56% | 0.324% |
| 38 | 10.269 | 1389 | 1391 | 1393 | rVB2 | 58489 | 44457 | 3.27% | 0.233% |
| 39 | 10.292 | 1393 | 1395 | 1398 | rVB | 30701 | 26247 | 1.93% | 0.137% |
| 40 | 10.339 | 1398 | 1403 | 1405 | rBV3 | 29928 | 40985 | 3.01% | 0.214% |
| 41 | 10.386 | 1408 | 1411 | 1417 | rVB2 | 175108 | 176410 | 12.96% | 0.923% |
| 42 | 10.451 | 1417 | 1422 | 1424 | rBV2 | 37979 | 45476 | 3.34% | 0.238% |
| 43 | 10.474 | 1424 | 1426 | 1427 | rVV2 | 28299 | 25562 | 1.88% | 0.134% |
| 44 | 10.498 | 1427 | 1430 | 1434 | rVV2 | 51807 | 62038 | 4.56% | 0.324% |
| 45 | 10.545 | 1435 | 1438 | 1441 | rVB2 | 49317 | 52533 | 3.86% | 0.275% |
| 46 | 10.627 | 1447 | 1452 | 1456 | rBV | 373746 | 345807 | 25.41% | 1.809% |
| 47 | 10.757 | 1469 | 1474 | 1480 | rVB3 | 131849 | 173539 | 12.75% | 0.908% |
| 48 | 10.810 | 1480 | 1483 | 1485 | rBV | 74051 | 75094 | 5.52% | 0.393% |
| 49 | 10.845 | 1486 | 1489 | 1492 | rVV2 | 84605 | 124166 | 9.12% | 0.649% |
| 50 | 10.880 | 1492 | 1495 | 1497 | rVV2 | 86003 | 103462 | 7.60% | 0.541% |
| 51 | 10.904 | 1497 | 1499 | 1501 | rVV | 58541 | 60330 | 4.43% | 0.316% |
| 52 | 10.939 | 1501 | 1505 | 1507 | rVV2 | 95412 | 140565 | 10.33% | 0.735% |
| 53 | 10.963 | 1507 | 1509 | 1511 | rVV2 | 83885 | 85430 | 6.28% | 0.447% |
| 54 | 10.992 | 1511 | 1514 | 1517 | rVV3 | 86418 | 115350 | 8.48% | 0.603% |
| 55 | 11.027 | 1517 | 1520 | 1522 | rVV2 | 100090 | 114209 | 8.39% | 0.597% |
| 56 | 11.069 | 1525 | 1527 | 1536 | rVV3 | 82753 | 142582 | 10.48% | 0.746% |
| 57 | 11.133 | 1536 | 1538 | 1541 | rVV2 | 44348 | 43687 | 3.21% | 0.228% |
| 58 | 11.192 | 1543 | 1548 | 1551 | rVV4 | 67993 | 104128 | 7.65% | 0.545% |
| 59 | 11.222 | 1551 | 1553 | 1560 | rVB | 120934 | 123403 | 9.07% | 0.645% |
| 60 | 11.327 | 1567 | 1571 | 1573 | rBV | 1221099 | 1053935 | 77.44% | 5.512% |
| 61 | 11.351 | 1573 | 1575 | 1579 | rVV | 814719 | 652592 | 47.95% | 3.413% |
| 62 | 11.404 | 1581 | 1584 | 1587 | rVB | 276709 | 220148 | 16.17% | 1.151% |
| 63 | 11.439 | 1587 | 1590 | 1593 | rBV3 | 49994 | 60162 | 4.42% | 0.315% |
| 64 | 11.557 | 1608 | 1610 | 1618 | rBV | 60116 | 75065 | 5.52% | 0.393% |
| 65 | 11.621 | 1618 | 1621 | 1624 | rVB | 70296 | 55490 | 4.08% | 0.290% |
| 66 | 11.657 | 1625 | 1627 | 1633 | rVB2 | 48304 | 54505 | 4.00% | 0.285% |
| 67 | 11.745 | 1639 | 1642 | 1644 | rVB | 32321 | 36028 | 2.65% | 0.188% |
| 68 | 11.827 | 1653 | 1656 | 1659 | rBV | 144678 | 145526 | 10.69% | 0.761% |
| 69 | 11.857 | 1659 | 1661 | 1665 | rVV | 200600 | 161766 | 11.89% | 0.846% |
| 70 | 11.904 | 1666 | 1669 | 1672 | rVV | 81572 | 74259 | 5.46% | 0.388% |
| 71 | 11.939 | 1672 | 1675 | 1678 | rVV | 255590 | 294406 | 21.63% | 1.540% |

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073020\
Data File : BF121142.D
Acq On : 30 Jul 2020 22:23
Operator : JU/CG
Sample : L3436-21 5X
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 21

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-BF071620.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 11.963 | 1678 | 1679 | 1683 | rVB | 129650 | 100201 | 7.36% | 0.524% |
| 73 | 12.027 | 1688 | 1690 | 1694 | rVB2 | 42893 | 37580 | 2.76% | 0.197% |
| 74 | 12.063 | 1694 | 1696 | 1699 | rBV | 30714 | 26015 | 1.91% | 0.136% |
| 75 | 12.127 | 1704 | 1707 | 1709 | rBV | 91313 | 81567 | 5.99% | 0.427% |
| 76 | 12.257 | 1726 | 1729 | 1730 | rBV2 | 37027 | 32998 | 2.42% | 0.173% |
| 77 | 12.274 | 1730 | 1732 | 1734 | rVB | 58479 | 40869 | 3.00% | 0.214% |
| 78 | 12.304 | 1734 | 1737 | 1740 | rBV3 | 82094 | 87667 | 6.44% | 0.458% |
| 79 | 12.380 | 1747 | 1750 | 1753 | rBV | 130470 | 134646 | 9.89% | 0.704% |
| 80 | 12.416 | 1753 | 1756 | 1762 | rVB3 | 116508 | 191264 | 14.05% | 1.000% |
| 81 | 12.468 | 1762 | 1765 | 1769 | rBV2 | 71549 | 92948 | 6.83% | 0.486% |
| 82 | 12.545 | 1774 | 1778 | 1781 | rBV | 1009036 | 895940 | 65.83% | 4.686% |
| 83 | 12.639 | 1791 | 1794 | 1797 | rBV | 66439 | 65292 | 4.80% | 0.341% |
| 84 | 12.692 | 1801 | 1803 | 1807 | rVV3 | 43155 | 52858 | 3.88% | 0.276% |
| 85 | 12.768 | 1811 | 1816 | 1823 | rBV | 896932 | 1121529 | 82.40% | 5.866% |
| 86 | 12.910 | 1837 | 1840 | 1847 | rVB | 599728 | 640867 | 47.09% | 3.352% |
| 87 | 13.074 | 1866 | 1868 | 1869 | rBV2 | 57277 | 51998 | 3.82% | 0.272% |
| 88 | 13.098 | 1870 | 1872 | 1875 | rVB | 177626 | 153250 | 11.26% | 0.801% |
| 89 | 13.145 | 1878 | 1880 | 1881 | rBV | 62822 | 49341 | 3.63% | 0.258% |
| 90 | 13.163 | 1881 | 1883 | 1886 | rVB | 113881 | 101660 | 7.47% | 0.532% |
| 91 | 13.204 | 1887 | 1890 | 1893 | rBV2 | 113864 | 114361 | 8.40% | 0.598% |
| 92 | 13.327 | 1909 | 1911 | 1914 | rBV | 71042 | 60853 | 4.47% | 0.318% |
| 93 | 13.968 | 2016 | 2020 | 2023 | rBV2 | 1065118 | 1361055 | 100.00% | 7.118% |
| 94 | 13.998 | 2023 | 2025 | 2027 | rVB | 390845 | 284575 | 20.91% | 1.488% |
| 95 | 15.009 | 2194 | 2197 | 2200 | rBV | 240802 | 330044 | 24.25% | 1.726% |
| 96 | 15.368 | 2255 | 2258 | 2263 | rBV | 255613 | 308811 | 22.69% | 1.615% |
| 97 | 15.433 | 2265 | 2269 | 2281 | rVB | 639390 | 1042904 | 76.62% | 5.454% |

Sum of corrected areas: 19120770

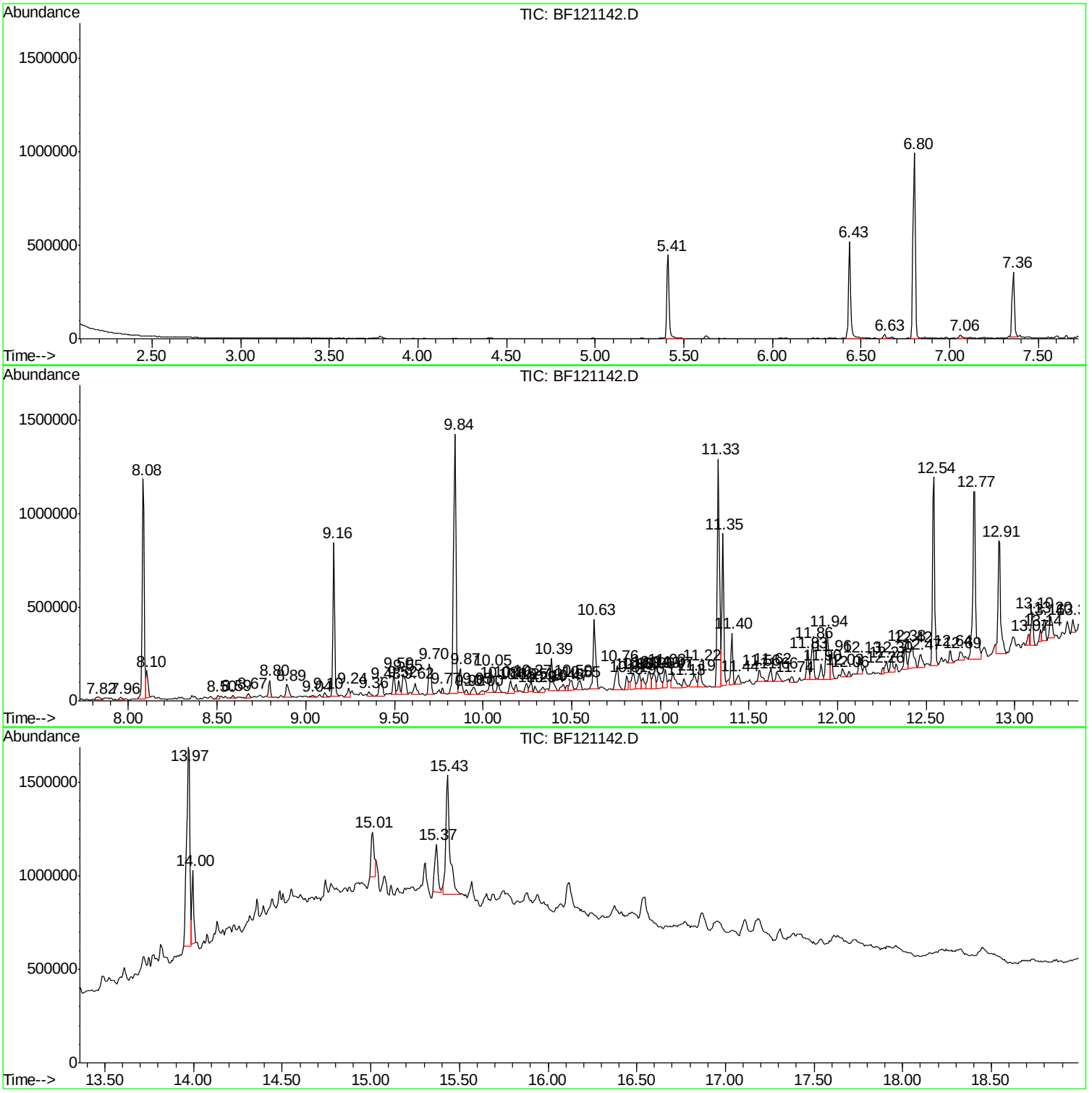
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073020\
Data File : BF121142.D
Acq On : 30 Jul 2020 22:23
Operator : JU/CG
Sample : L3436-21 5X
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 21

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071620.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073020\
Data File : BF121142.D
Acq On : 30 Jul 2020 22:23
Operator : JU/CG
Sample : L3436-21 5X
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 21

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071620.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

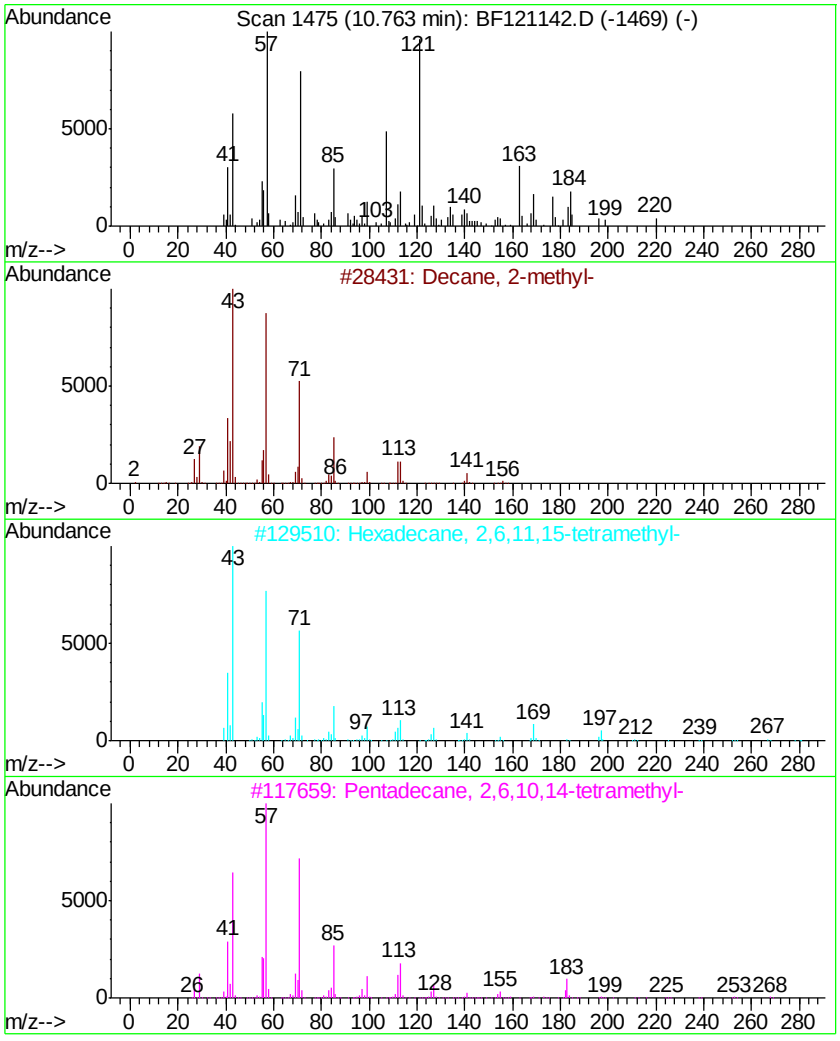
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

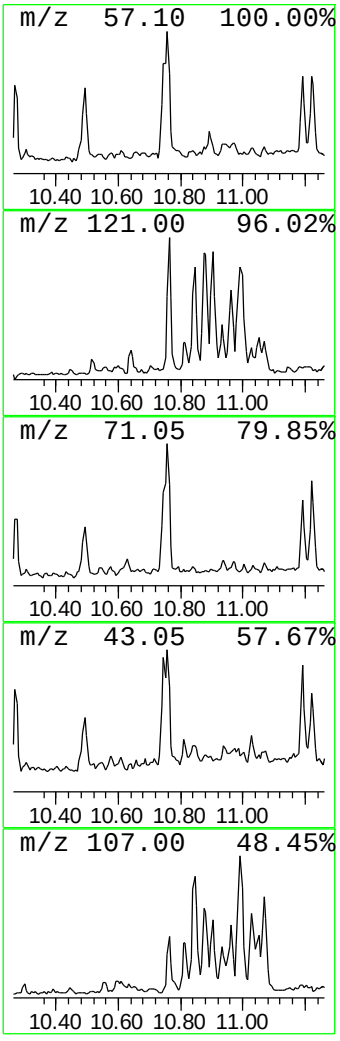
**********

Peak Number 3 Decane, 2-methyl- Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.76 | 3.29 ng | 173539 | Phenanthrene-d10 | 11.33 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Decane, 2-methyl- | 156 | C11H24 | 006975-98-0 | 50 |
| 2 | Hexadecane, 2,6,11,15-tetramethyl- | 282 | C20H42 | 000504-44-9 | 49 |
| 3 | Pentadecane, 2,6,10,14-tetramethyl- | 268 | C19H40 | 001921-70-6 | 49 |
| 4 | Heptadecane, 7-methyl- | 254 | C18H38 | 020959-33-5 | 46 |
| 5 | Dodecane | 170 | C12H26 | 000112-40-3 | 45 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073020\
Data File : BF121142.D
Acq On : 30 Jul 2020 22:23
Operator : JU/CG
Sample : L3436-21 5X
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 21

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071620.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

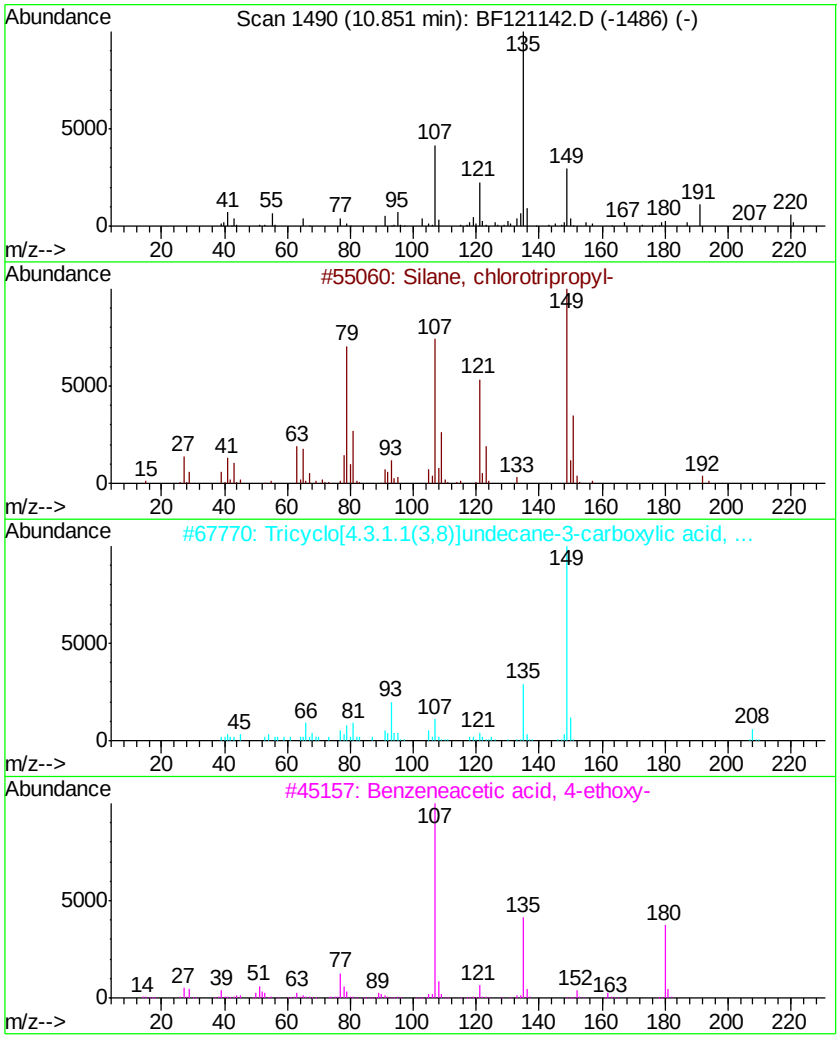
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

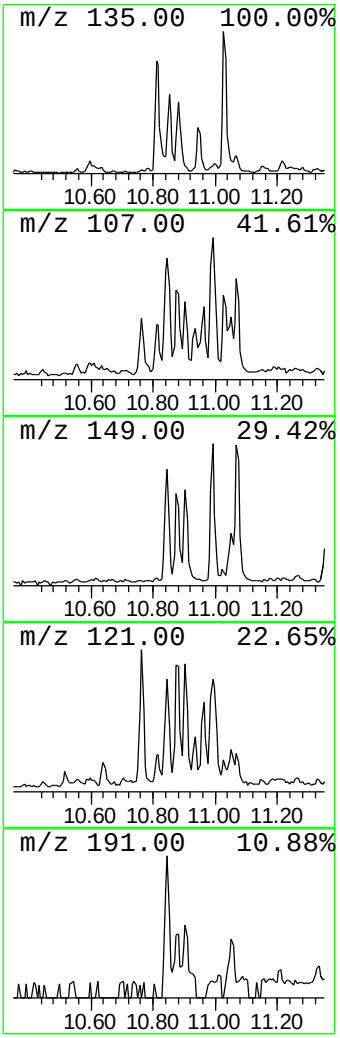
**********

Peak Number 4 Silane, chlorotripropyl- Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.85 | 2.36 ng | 124166 | Phenanthrene-d10 | 11.33 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Silane, chlorotripropyl- | 192 | C9H21ClSi | 000995-25-5 | 52 |
| 2 | Tricyclo[4.3.1.1(3,8)]undecane-3... | 208 | C13H20O2 | 031061-61-7 | 43 |
| 3 | Benzeneacetic acid, 4-ethoxy- | 180 | C10H12O3 | 004919-33-9 | 35 |
| 4 | Pyridine-3-carbonitrile, 1,2-dih... | 191 | C9H9N3O2 | 220098-92-0 | 35 |
| 5 | Phenol, 2-methyl-4-(1,1,3,3-tetr... | 220 | C15H24O | 002219-84-3 | 30 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073020\
Data File : BF121142.D
Acq On : 30 Jul 2020 22:23
Operator : JU/CG
Sample : L3436-21 5X
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 21

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071620.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

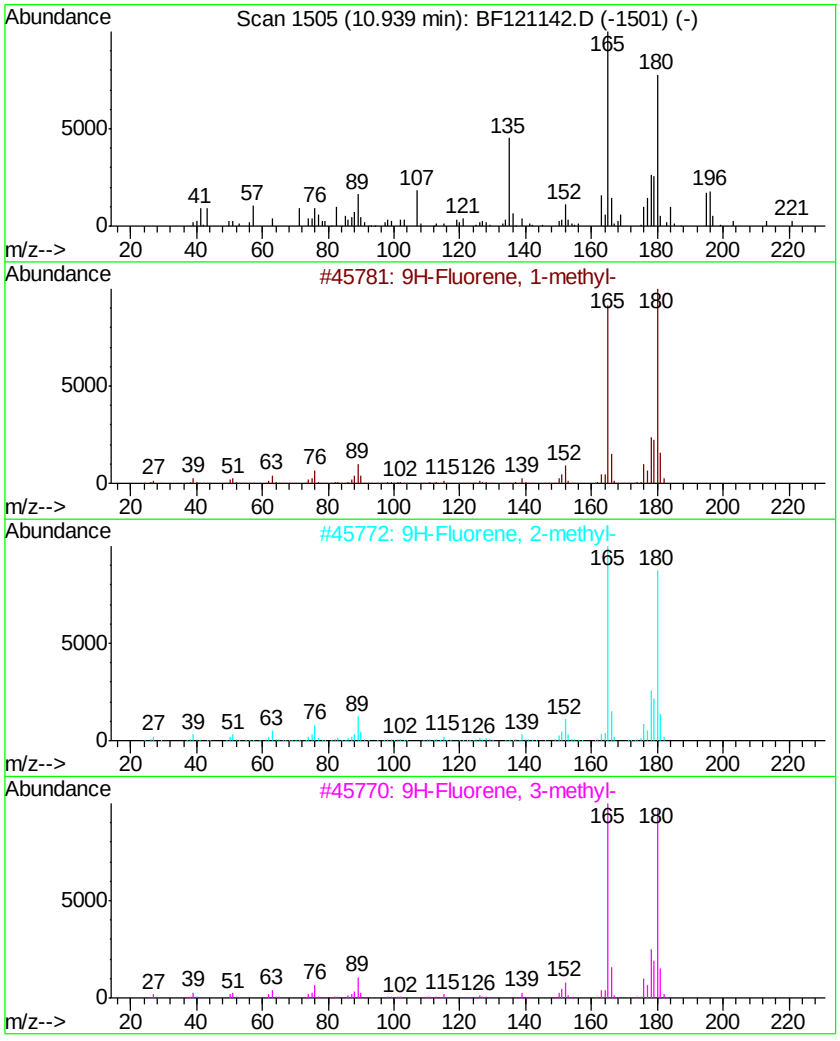
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

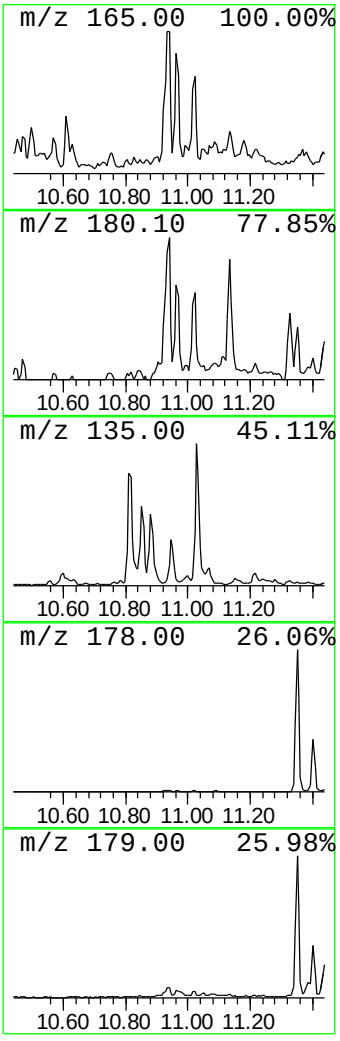
**********

Peak Number 5 9H-Fluorene, 1-methyl- Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.94 | 2.67 ng | 140565 | Phenanthrene-d10 | 11.33 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 9H-Fluorene, 1-methyl- | 180 | C14H12 | 001730-37-6 | 78 |
| 2 | 9H-Fluorene, 2-methyl- | 180 | C14H12 | 001430-97-3 | 60 |
| 3 | 9H-Fluorene, 3-methyl- | 180 | C14H12 | 002523-39-9 | 60 |
| 4 | 9H-Fluorene, 9-methyl- | 180 | C14H12 | 002523-37-7 | 53 |
| 5 | 9H-Fluorene, 4-methyl- | 180 | C14H12 | 001556-99-6 | 53 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073020\
Data File : BF121142.D
Acq On : 30 Jul 2020 22:23
Operator : JU/CG
Sample : L3436-21 5X
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 21

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071620.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

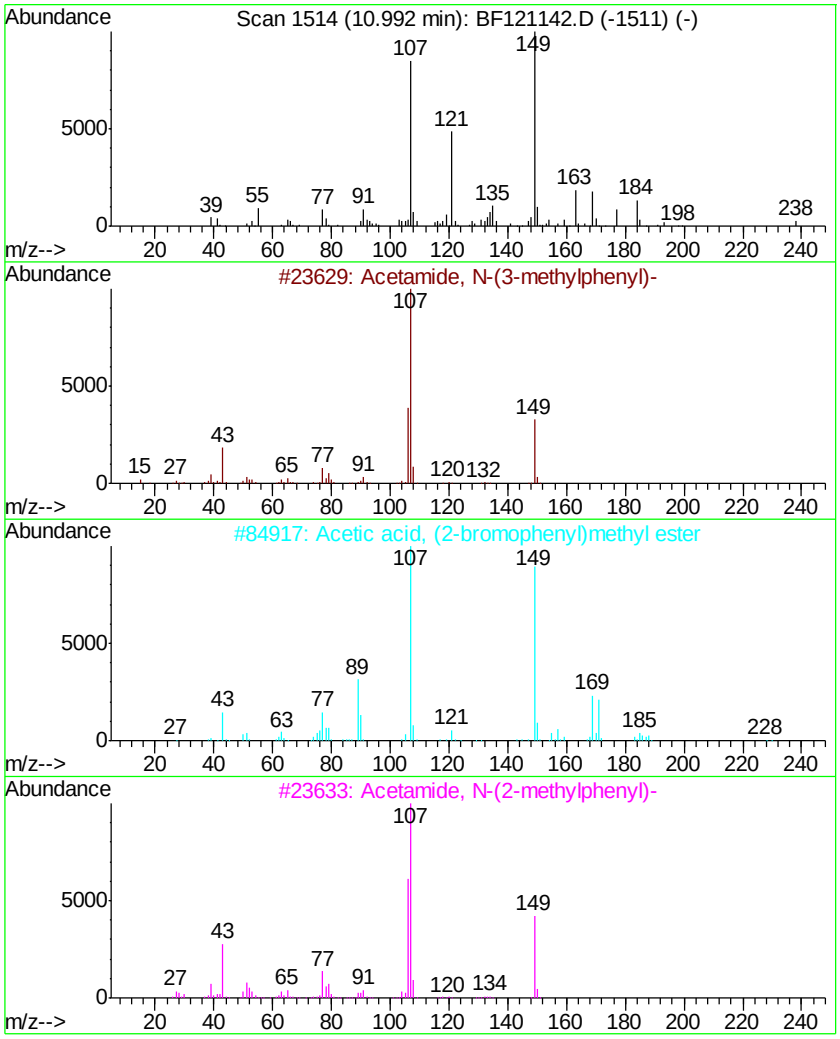
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

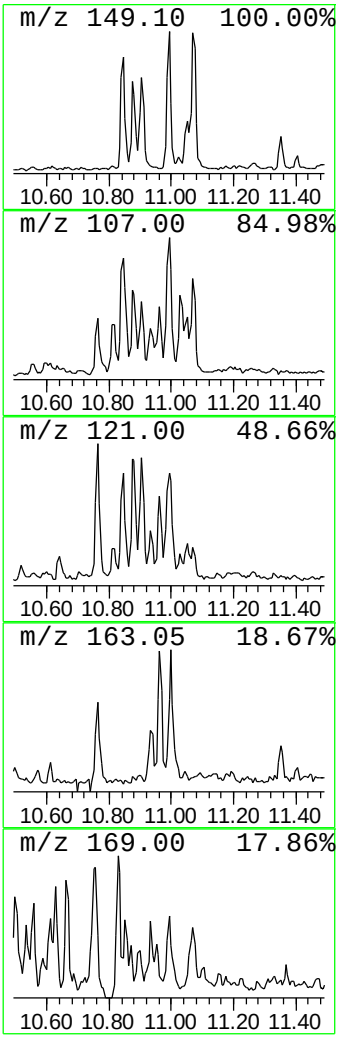
**********

Peak Number 6 Acetamide, N-(3-methylphenyl)- Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.99 | 2.19 ng | 115350 | Phenanthrene-d10 | 11.33 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Acetamide, N-(3-methylphenyl)- | 149 | C9H11NO | 000537-92-8 | 64 |
| 2 | Acetic acid, (2-bromophenyl)meth... | 228 | C9H9BrO2 | 1000368-71-4 | 64 |
| 3 | Acetamide, N-(2-methylphenyl)- | 149 | C9H11NO | 000120-66-1 | 43 |
| 4 | Phenol, 2-methyl-4-(1,1,3,3-tetr... | 220 | C15H24O | 002219-84-3 | 35 |
| 5 | 2-Carbamoyl-4,6-dimethylpyridine | 150 | C8H10N2O | 072693-02-8 | 30 |



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073020\
Data File : BF121142.D
Acq On : 30 Jul 2020 22:23
Operator : JU/CG
Sample : L3436-21 5X
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 21

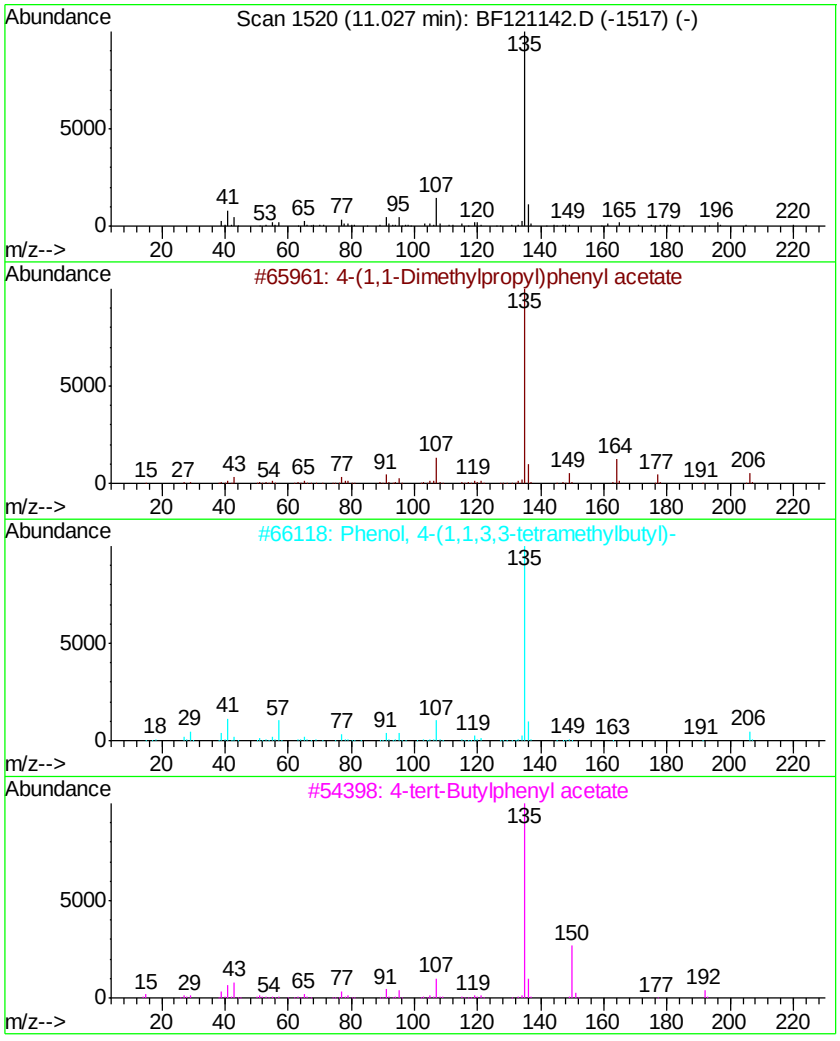
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071620.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

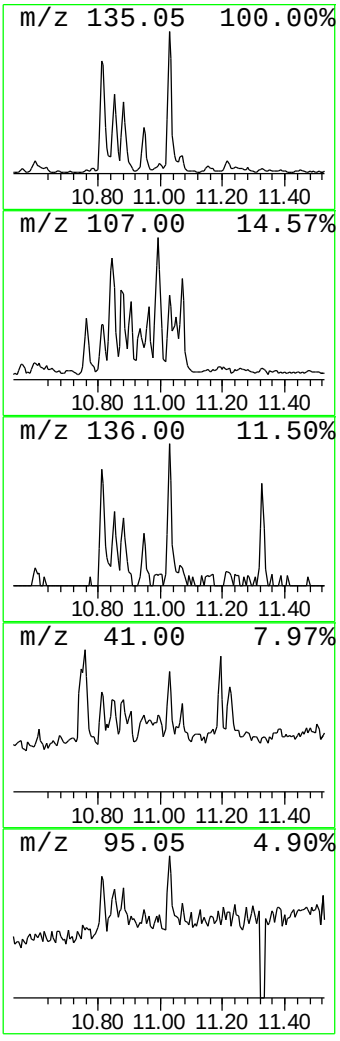
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 7 4-(1,1-Dimethylpropyl)pheny... Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.03 | 2.17 ng | 114209 | Phenanthrene-d10 | 11.33 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4-(1,1-Dimethylpropyl)phenyl ace... | 206 | C13H18O2 | 1000373-45-3 | 78 |
| 2 | Phenol, 4-(1,1,3,3-tetramethylbu... | 206 | C14H22O | 000140-66-9 | 78 |
| 3 | 4-tert-Butylphenyl acetate | 192 | C12H16O2 | 003056-64-2 | 78 |
| 4 | Benzenesulfonamide, N-(1-adamant... | 335 | C18H25NO3S | 1000297-54-4 | 72 |
| 5 | 1,2-Benzenediol, o-(1-adamantane... | 272 | C17H20O3 | 1000325-99-6 | 64 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073020\
Data File : BF121142.D
Acq On : 30 Jul 2020 22:23
Operator : JU/CG
Sample : L3436-21 5X
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 21

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071620.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

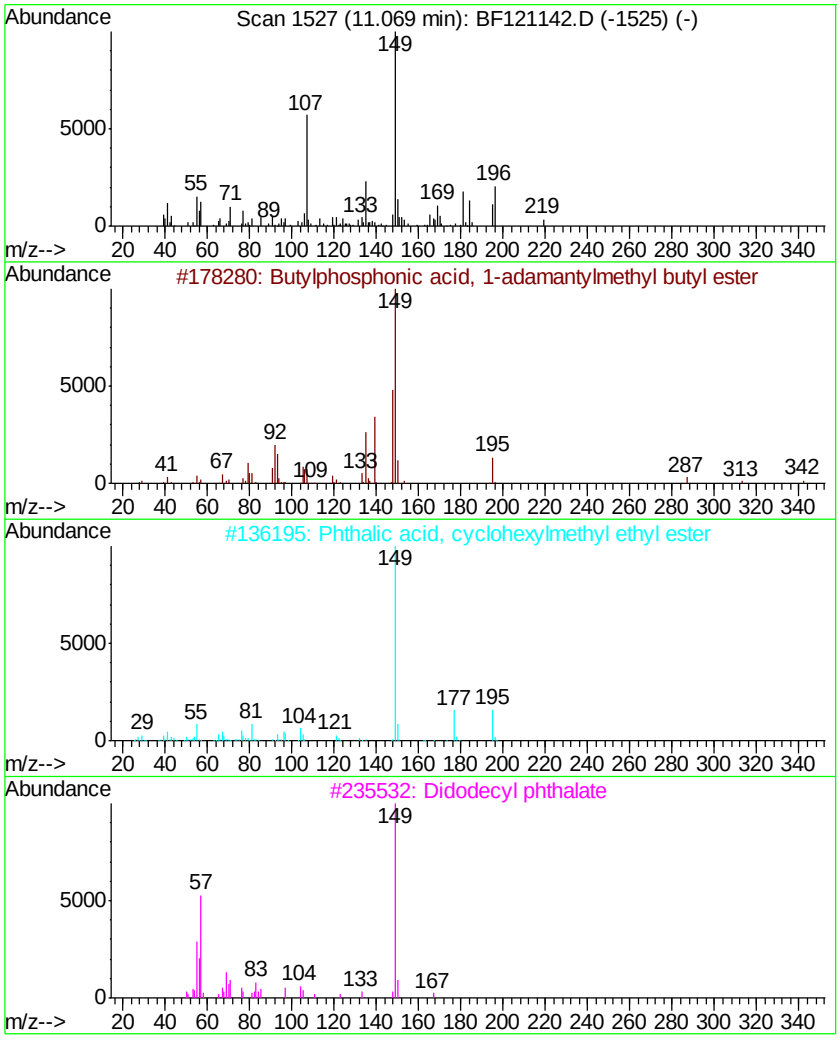
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

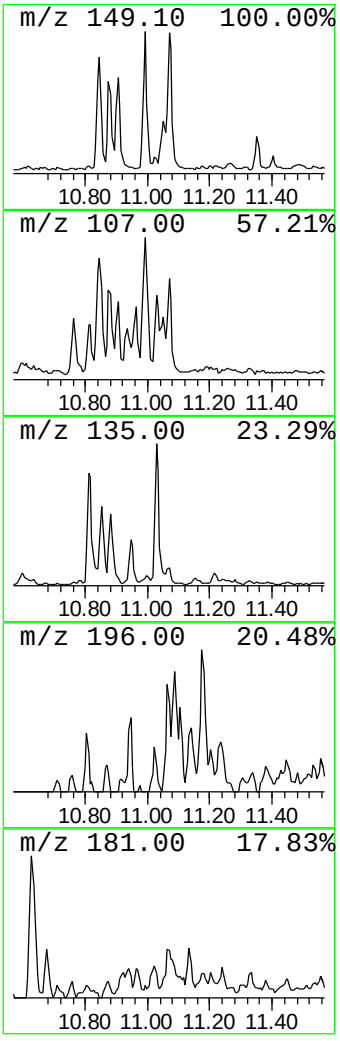
**********

Peak Number 8 unknown11.07 Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.07 | 2.71 ng | 142582 | Phenanthrene-d10 | 11.33 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butylphosphonic acid, 1-adamantyl... | 342 | C19H35O3P | 1000323-25-3 | 43 |
| 2 | Phthalic acid, cyclohexylmethyl ... | 290 | C17H22O4 | 1000309-10-0 | 35 |
| 3 | Didodecyl phthalate | 502 | C32H54O4 | 002432-90-8 | 27 |
| 4 | Phthalic acid, propyl octadecyl ... | 460 | C29H48O4 | 1000308-96-7 | 27 |
| 5 | Phthalic acid, pent-4-enyl tride... | 416 | C26H40O4 | 1000360-47-2 | 27 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073020\
Data File : BF121142.D
Acq On : 30 Jul 2020 22:23
Operator : JU/CG
Sample : L3436-21 5X
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 21

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071620.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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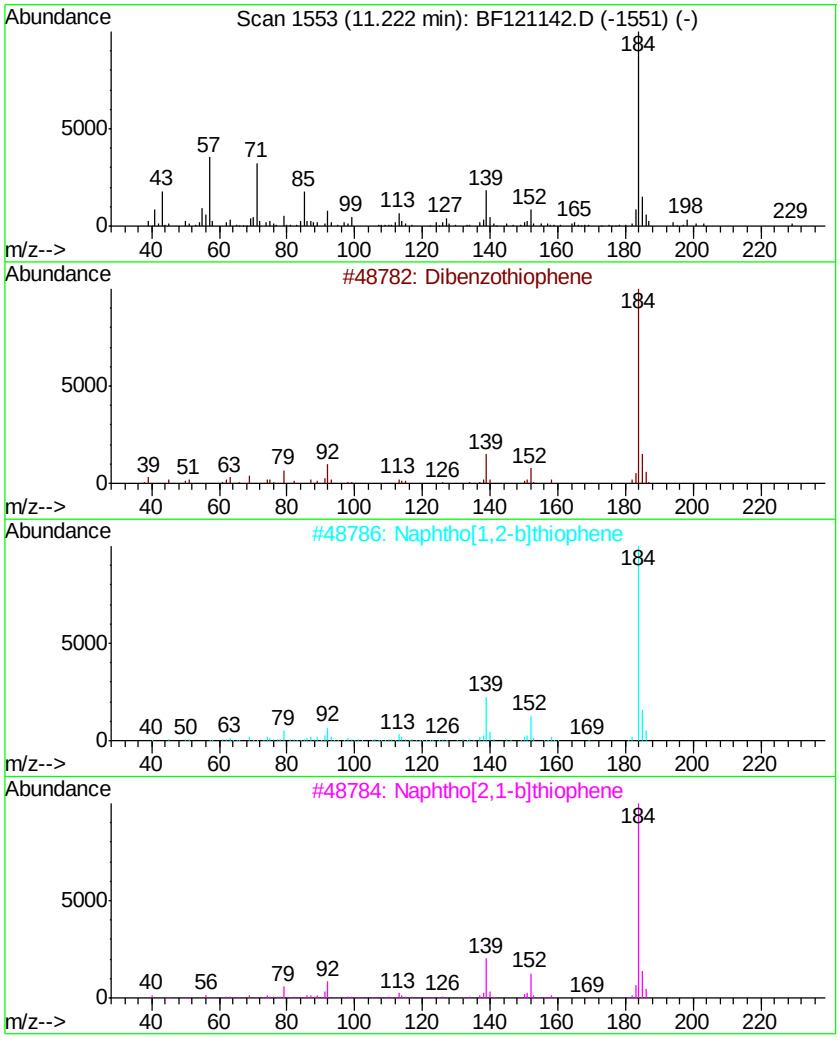
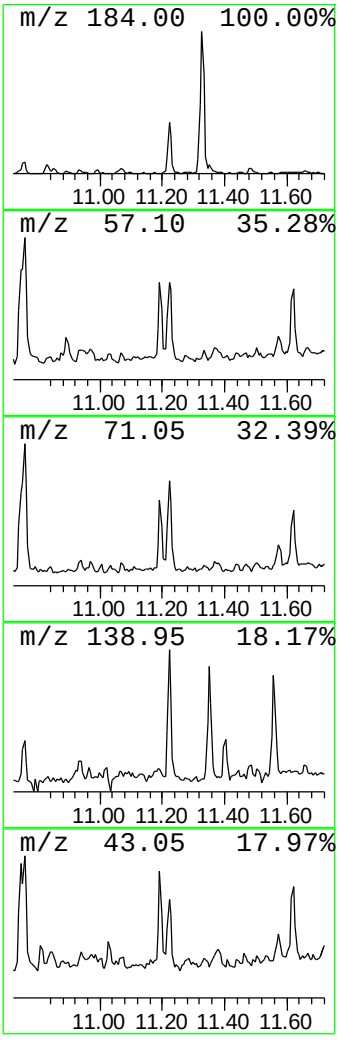
Peak Number 9 Dibenzothiophene Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.22 | 2.34 ng | 123403 | Phenanthrene-d10 | 11.33 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Dibenzothiophene | 184 | C12H8S | 000132-65-0 | 89 |
| 2 | Naphtho[1,2-b]thiophene | 184 | C12H8S | 000234-41-3 | 83 |
| 3 | Naphtho[2,1-b]thiophene | 184 | C12H8S | 000233-02-3 | 76 |
| 4 | Naphtho[2,3-b]thiophene | 184 | C12H8S | 000268-77-9 | 70 |
| 5 | Azuleno(2,1-b)thiophene | 184 | C12H8S | 000248-13-5 | 68 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073020\
Data File : BF121142.D
Acq On : 30 Jul 2020 22:23
Operator : JU/CG
Sample : L3436-21 5X
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 21

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071620.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

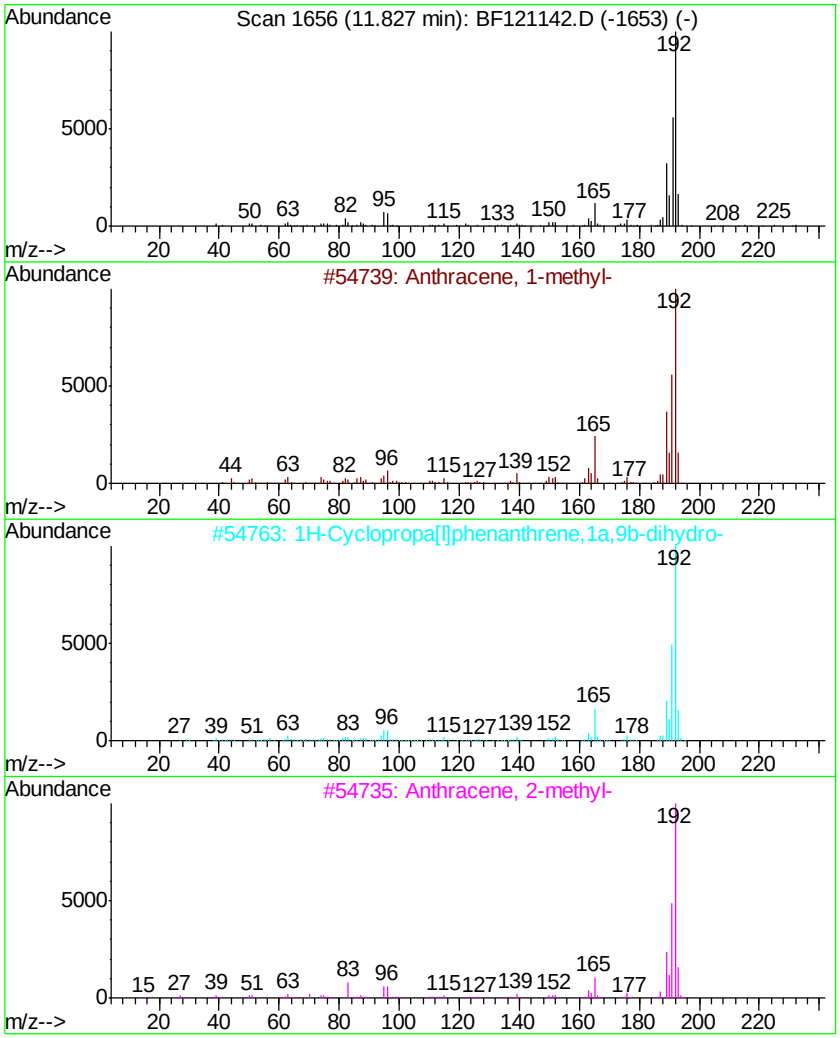
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

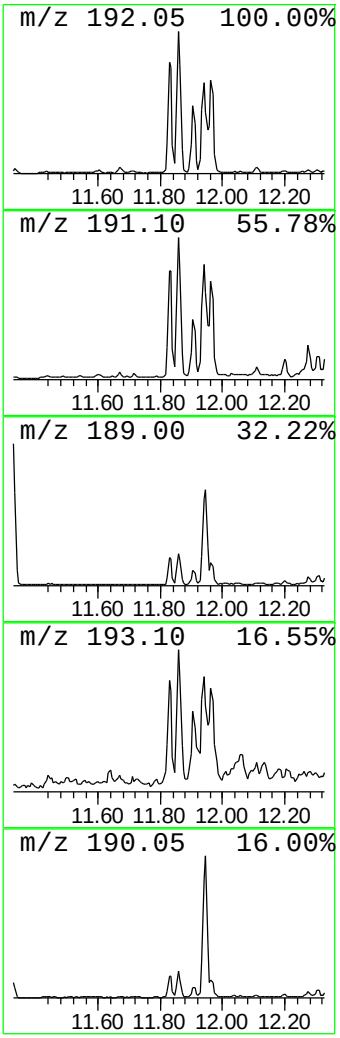
**********

Peak Number 10 Anthracene, 1-methyl- Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.83 | 2.76 ng | 145526 | Phenanthrene-d10 | 11.33 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 95 |
| 2 | 1H-Cyclopropa[l]phenanthrene,1a,... | 192 | C15H12 | 000949-41-7 | 91 |
| 3 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 91 |
| 4 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 91 |
| 5 | Anthracene, 9-methyl- | 192 | C15H12 | 000779-02-2 | 91 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073020\
Data File : BF121142.D
Acq On : 30 Jul 2020 22:23
Operator : JU/CG
Sample : L3436-21 5X
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 21

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071620.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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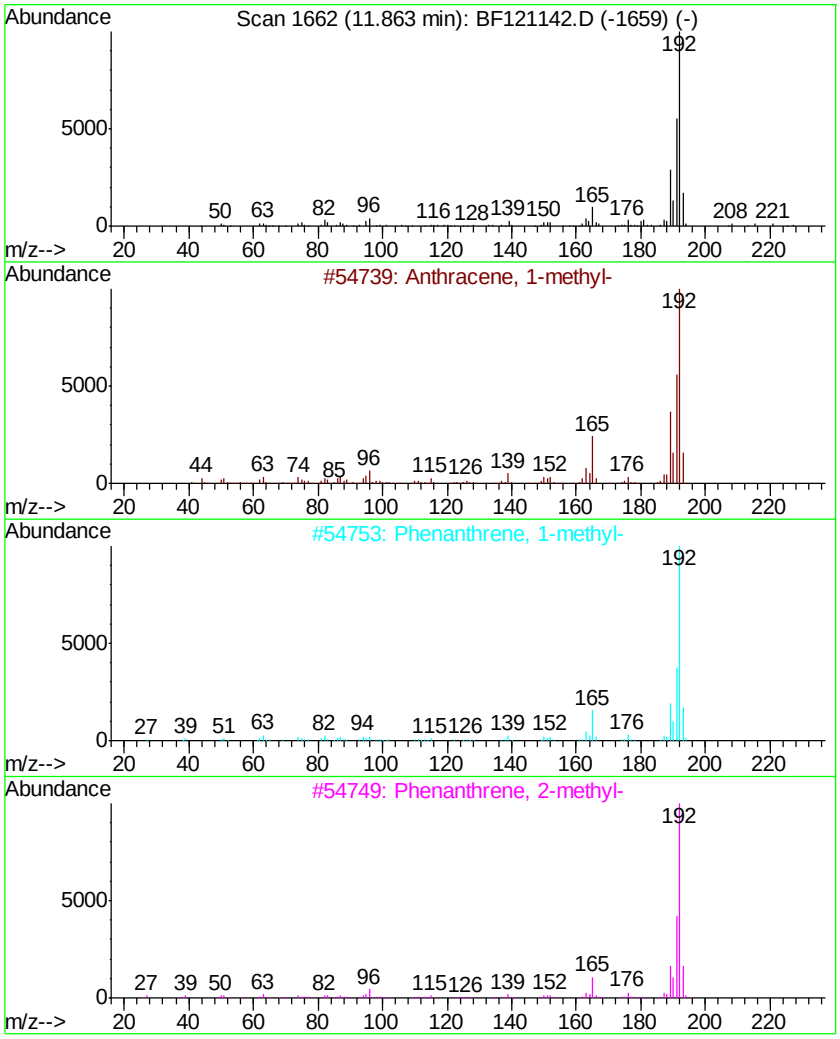
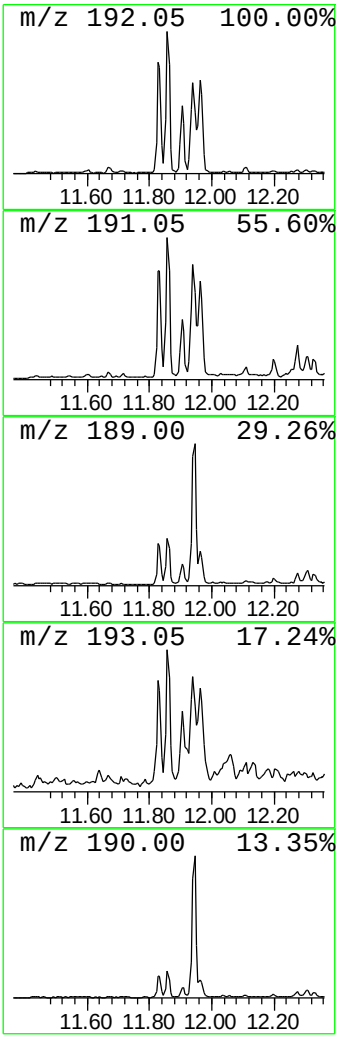
Peak Number 11 Phenanthrene, 1-methyl- Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.86 | 3.07 ng | 161766 | Phenanthrene-d10 | 11.33 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 95 |
| 2 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 93 |
| 3 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 93 |
| 4 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 93 |
| 5 | 1H-Cyclopropa[l]phenanthrene,1a,... | 192 | C15H12 | 000949-41-7 | 93 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073020\
Data File : BF121142.D
Acq On : 30 Jul 2020 22:23
Operator : JU/CG
Sample : L3436-21 5X
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 21

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071620.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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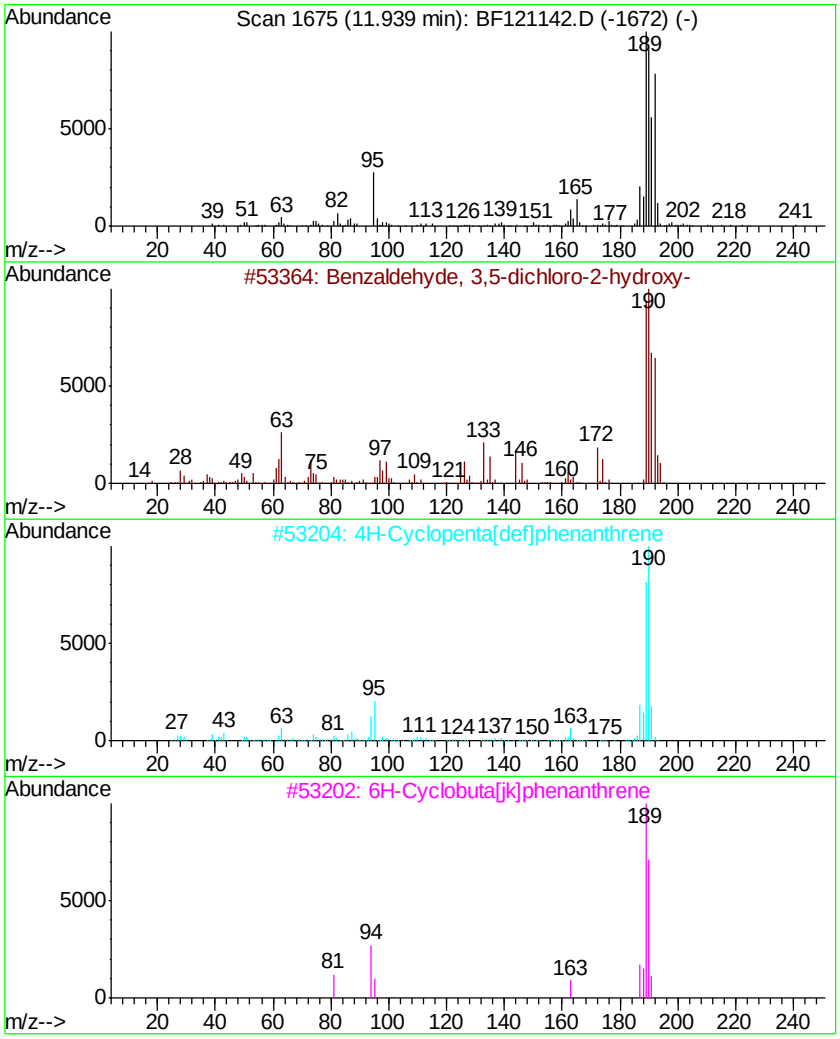
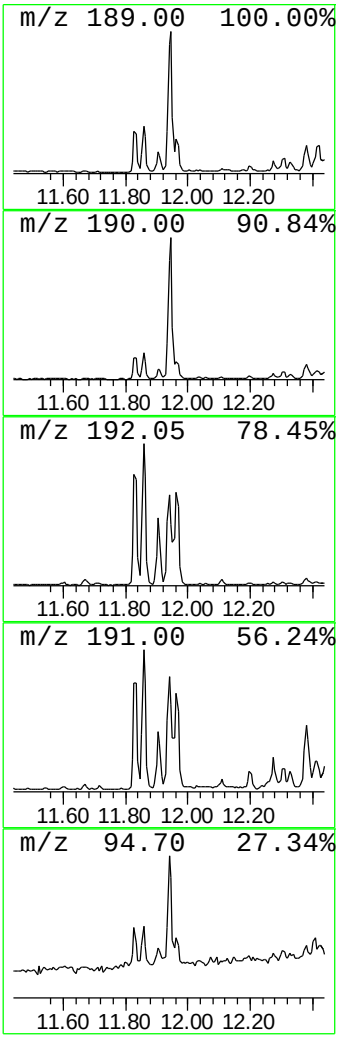
Peak Number 12 Benzaldehyde, 3,5-dichloro-... Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.94 | 5.59 ng | 294406 | Phenanthrene-d10 | 11.33 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzaldehyde, 3,5-dichloro-2-hyd... | 190 | C7H4Cl2O2 | 000090-60-8 | 72 |
| 2 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 55 |
| 3 | 6H-Cyclobuta[jk]phenanthrene | 190 | C15H10 | 083469-43-6 | 46 |
| 4 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 42 |
| 5 | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 38 |



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073020\
Data File : BF121142.D
Acq On : 30 Jul 2020 22:23
Operator : JU/CG
Sample : L3436-21 5X
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 21

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071620.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

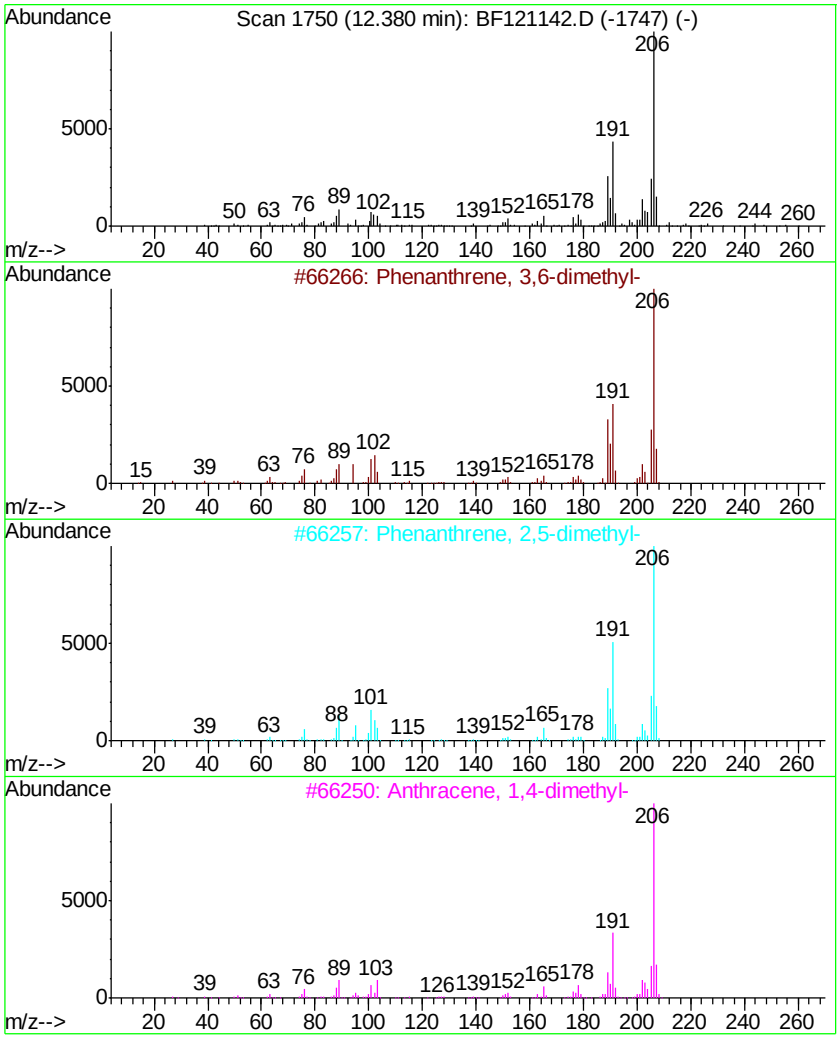
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

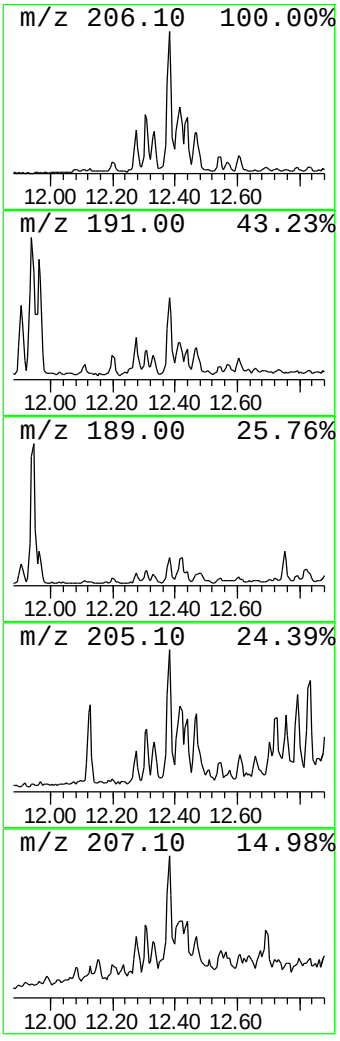
**********

Peak Number 13 Phenanthrene, 3,6-dimethyl- Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.38 | 2.56 ng | 134646 | Phenanthrene-d10 | 11.33 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 3,6-dimethyl- | 206 | C16H14 | 001576-67-6 | 93 |
| 2 | Phenanthrene, 2,5-dimethyl- | 206 | C16H14 | 003674-66-6 | 93 |
| 3 | Anthracene, 1,4-dimethyl- | 206 | C16H14 | 000781-92-0 | 90 |
| 4 | di-p-Tolylacetylene | 206 | C16H14 | 002789-88-0 | 87 |
| 5 | Phenanthrene, 2,3-dimethyl- | 206 | C16H14 | 003674-65-5 | 81 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073020\
Data File : BF121142.D
Acq On : 30 Jul 2020 22:23
Operator : JU/CG
Sample : L3436-21 5X
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 21

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071620.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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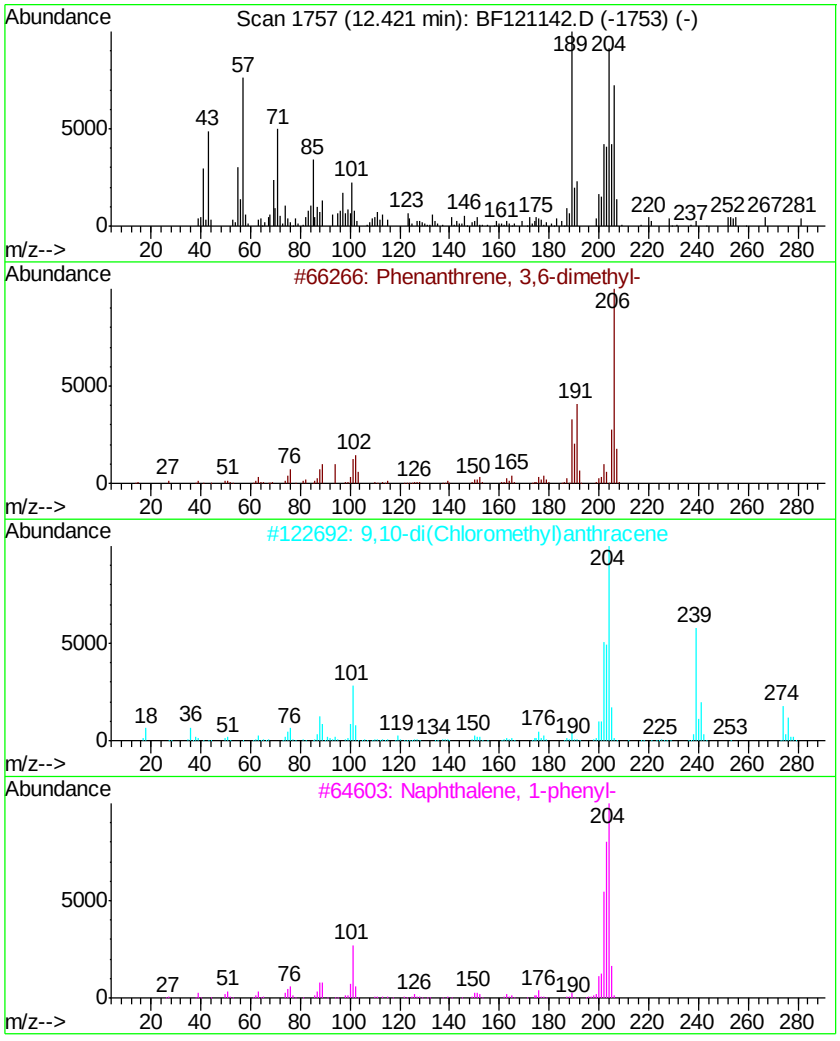
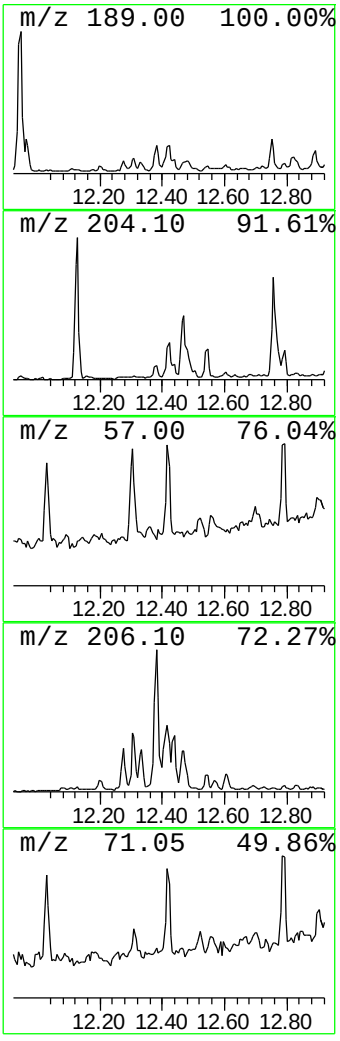
Peak Number 14 unknown12.42 Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.42 | 3.63 ng | 191264 | Phenanthrene-d10 | 11.33 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 3,6-dimethyl- | 206 | C16H14 | 001576-67-6 | 38 |
| 2 | 9,10-di(Chloromethyl)anthracene | 274 | C16H12Cl2 | 010387-13-0 | 25 |
| 3 | Naphthalene, 1-phenyl- | 204 | C16H12 | 000605-02-7 | 25 |
| 4 | 5H-Dibenzo[a,d]cycloheptene, 5-m... | 204 | C16H12 | 002975-79-3 | 25 |
| 5 | Acephenanthrylene, 4,5-dihydro- | 204 | C16H12 | 006232-48-0 | 25 |



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073020\
Data File : BF121142.D
Acq On : 30 Jul 2020 22:23
Operator : JU/CG
Sample : L3436-21 5X
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 21

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071620.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

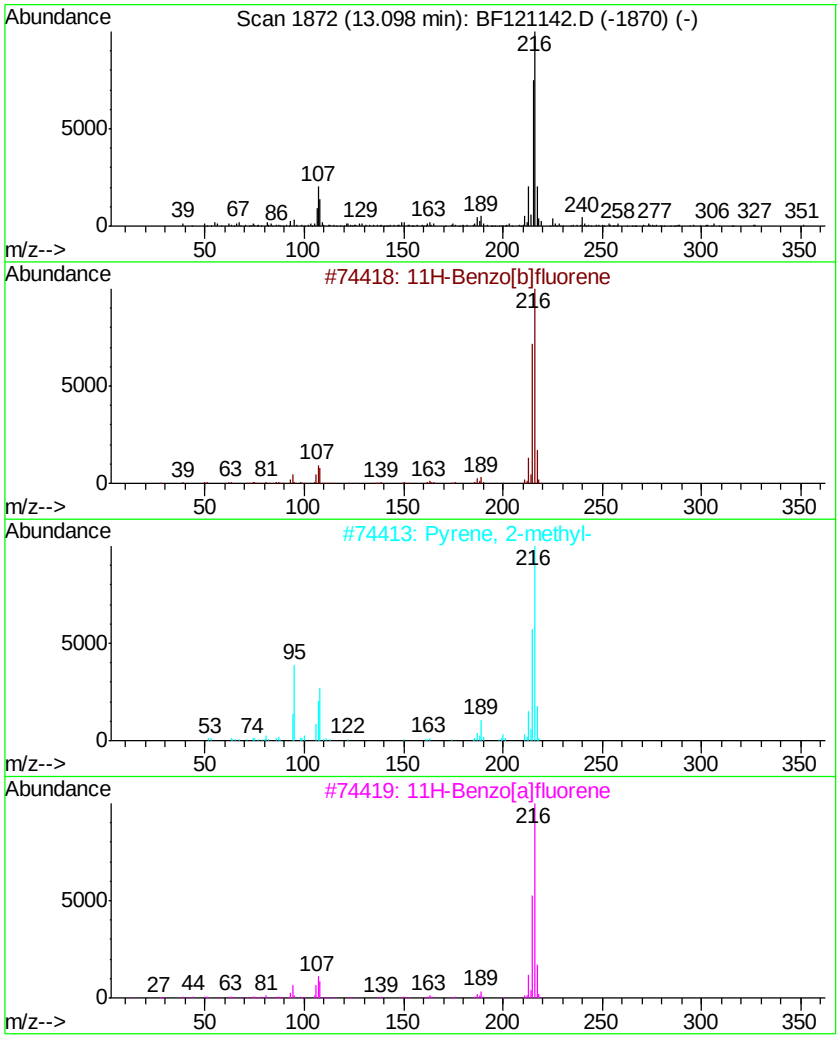
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

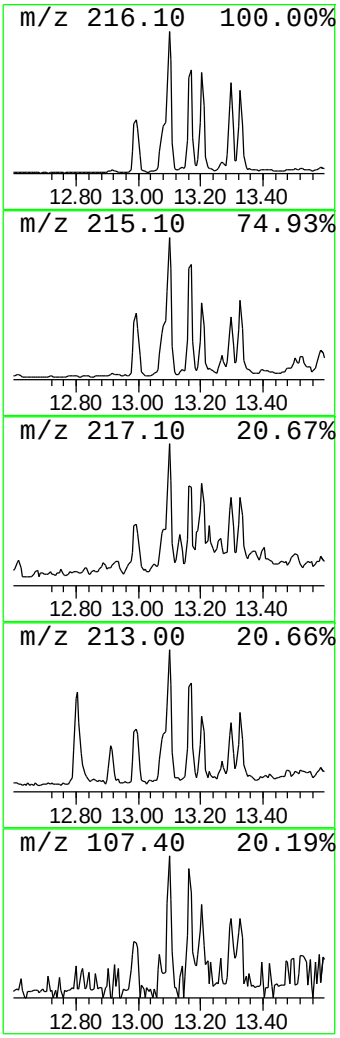
**********

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

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.10 | 2.25 ng | 153250 | Chrysene-d12 | 13.97 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 94 |
| 2 | Pyrene, 2-methyl- | 216 | C17H12 | 003442-78-2 | 93 |
| 3 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 90 |
| 4 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 90 |
| 5 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 87 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF073020\
Data File : BF121142.D
Acq On : 30 Jul 2020 22:23
Operator : JU/CG
Sample : L3436-21 5X
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 21

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071620.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 |
| Decane, 2-methyl- | 10.76 | 3.3 | ng | 173539 | 4 | 11.33 | 1053940 | 20.0 |
| Silane, chlorotri... | 10.85 | 2.4 | ng | 124166 | 4 | 11.33 | 1053940 | 20.0 |
| 9H-Fluorene, 1-me... | 10.94 | 2.7 | ng | 140565 | 4 | 11.33 | 1053940 | 20.0 |
| Acetamide, N-(3-m... | 10.99 | 2.2 | ng | 115350 | 4 | 11.33 | 1053940 | 20.0 |
| 4-(1,1-Dimethylpr... | 11.03 | 2.2 | ng | 114209 | 4 | 11.33 | 1053940 | 20.0 |
| unknown11.07 | 11.07 | 2.7 | ng | 142582 | 4 | 11.33 | 1053940 | 20.0 |
| Dibenzothiophene | 11.22 | 2.3 | ng | 123403 | 4 | 11.33 | 1053940 | 20.0 |
| Anthracene, 1-met... | 11.83 | 2.8 | ng | 145526 | 4 | 11.33 | 1053940 | 20.0 |
| Phenanthrene, 1-m... | 11.86 | 3.1 | ng | 161766 | 4 | 11.33 | 1053940 | 20.0 |
| Benzaldehyde, 3,5... | 11.94 | 5.6 | ng | 294406 | 4 | 11.33 | 1053940 | 20.0 |
| Phenanthrene, 3,6... | 12.38 | 2.6 | ng | 134646 | 4 | 11.33 | 1053940 | 20.0 |
| unknown12.42 | 12.42 | 3.6 | ng | 191264 | 4 | 11.33 | 1053940 | 20.0 |
| 11H-Benzo[b]fluorene | 13.10 | 2.3 | ng | 153250 | 5 | 13.97 | 1361060 | 20.0 |