LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF010919\
Data File : BF111963.D
Acq On : 9 Jan 2019 21:31
Operator : JU/SJ
Sample : K1044-04
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** CPSB-11(20-25)

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-BF010719.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 | 5.099 | 507 | 512 | 520 | rVB | 127645 | 153620 | 1.03% | 0.173% |
| 2 | 5.516 | 579 | 583 | 592 | rVB | 2603207 | 2340978 | 15.69% | 2.642% |
| 3 | 6.169 | 691 | 694 | 697 | rBV | 268243 | 221981 | 1.49% | 0.251% |
| 4 | 6.528 | 750 | 755 | 760 | rBV | 2715319 | 2667385 | 17.88% | 3.011% |
| 5 | 6.657 | 773 | 777 | 781 | rVB | 2640763 | 2471184 | 16.56% | 2.789% |
| 6 | 6.881 | 812 | 815 | 823 | rVB | 877439 | 838022 | 5.62% | 0.946% |
| 7 | 7.040 | 838 | 842 | 846 | rBV | 2252118 | 1953962 | 13.10% | 2.206% |
| 8 | 7.440 | 902 | 910 | 915 | rBV | 1614758 | 1713699 | 11.49% | 1.934% |
| 9 | 7.481 | 915 | 917 | 921 | rVB | 278963 | 213118 | 1.43% | 0.241% |
| 10 | 7.904 | 987 | 989 | 996 | rVB5 | 159286 | 289937 | 1.94% | 0.327% |
| 11 | 8.169 | 1028 | 1034 | 1036 | rVV2 | 1110228 | 1653239 | 11.08% | 1.866% |
| 12 | 8.187 | 1036 | 1037 | 1040 | rVV | 268156 | 221244 | 1.48% | 0.250% |
| 13 | 8.228 | 1040 | 1044 | 1047 | rVB2 | 217861 | 259583 | 1.74% | 0.293% |
| 14 | 8.463 | 1078 | 1084 | 1088 | rBV4 | 244443 | 329825 | 2.21% | 0.372% |
| 15 | 8.516 | 1090 | 1093 | 1096 | rVB3 | 183829 | 164078 | 1.10% | 0.185% |
| 16 | 8.551 | 1096 | 1099 | 1101 | rBV3 | 195555 | 223032 | 1.50% | 0.252% |
| 17 | 8.587 | 1101 | 1105 | 1107 | rBV2 | 250734 | 207615 | 1.39% | 0.234% |
| 18 | 8.669 | 1116 | 1119 | 1122 | rBV2 | 383085 | 361363 | 2.42% | 0.408% |
| 19 | 8.757 | 1131 | 1134 | 1138 | rBV | 1093257 | 887653 | 5.95% | 1.002% |
| 20 | 8.992 | 1169 | 1174 | 1176 | rBV2 | 339377 | 371848 | 2.49% | 0.420% |
| 21 | 9.122 | 1192 | 1196 | 1200 | rVB3 | 195081 | 326854 | 2.19% | 0.369% |
| 22 | 9.186 | 1205 | 1207 | 1209 | rVV2 | 279825 | 233828 | 1.57% | 0.264% |
| 23 | 9.239 | 1212 | 1216 | 1219 | rBV | 3057089 | 2567761 | 17.21% | 2.898% |
| 24 | 9.322 | 1226 | 1230 | 1235 | rBV | 1167608 | 1113560 | 7.46% | 1.257% |
| 25 | 9.392 | 1240 | 1242 | 1245 | rVB | 255833 | 225065 | 1.51% | 0.254% |
| 26 | 9.563 | 1267 | 1271 | 1272 | rBV4 | 137845 | 178549 | 1.20% | 0.202% |
| 27 | 9.581 | 1272 | 1274 | 1276 | rVV | 315491 | 280672 | 1.88% | 0.317% |
| 28 | 9.604 | 1276 | 1278 | 1280 | rVV2 | 214793 | 189865 | 1.27% | 0.214% |
| 29 | 9.633 | 1280 | 1283 | 1287 | rVV2 | 569846 | 841813 | 5.64% | 0.950% |
| 30 | 9.669 | 1287 | 1289 | 1291 | rVV2 | 259255 | 230489 | 1.55% | 0.260% |
| 31 | 9.704 | 1291 | 1295 | 1297 | rVB | 268669 | 264125 | 1.77% | 0.298% |
| 32 | 9.798 | 1306 | 1311 | 1313 | rBV5 | 96560 | 164857 | 1.11% | 0.186% |
| 33 | 9.851 | 1313 | 1320 | 1323 | rVV | 1115769 | 1088168 | 7.29% | 1.228% |
| 34 | 9.922 | 1329 | 1332 | 1335 | rVV2 | 1089230 | 964298 | 6.46% | 1.088% |

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF010919\
Data File : BF111963.D
Acq On : 9 Jan 2019 21:31
Operator : JU/SJ
Sample : K1044-04
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** CPSB-11(20-25)

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-BF010719.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 9.957 | 1335 | 1338 | 1340 | rVB2 | 198132 | 175136 | 1.17% | 0.198% |
| 36 | 10.086 | 1357 | 1360 | 1362 | rVV3 | 123810 | 171598 | 1.15% | 0.194% |
| 37 | 10.122 | 1362 | 1366 | 1371 | rVB5 | 150135 | 303689 | 2.04% | 0.343% |
| 38 | 10.175 | 1371 | 1375 | 1379 | rBV3 | 204141 | 283882 | 1.90% | 0.320% |
| 39 | 10.239 | 1383 | 1386 | 1389 | rBV2 | 166984 | 217159 | 1.46% | 0.245% |
| 40 | 10.351 | 1403 | 1405 | 1408 | rVB | 1083179 | 849929 | 5.70% | 0.959% |
| 41 | 10.469 | 1422 | 1425 | 1431 | rBV4 | 175074 | 228962 | 1.53% | 0.258% |
| 42 | 10.575 | 1438 | 1443 | 1448 | rBV | 360398 | 508332 | 3.41% | 0.574% |
| 43 | 10.710 | 1464 | 1466 | 1470 | rVB | 1588906 | 1306951 | 8.76% | 1.475% |
| 44 | 10.828 | 1482 | 1486 | 1491 | rBV | 961045 | 1186753 | 7.96% | 1.340% |
| 45 | 11.275 | 1559 | 1562 | 1565 | rBV | 865959 | 684471 | 4.59% | 0.773% |
| 46 | 11.304 | 1565 | 1567 | 1572 | rVB | 422618 | 439587 | 2.95% | 0.496% |
| 47 | 11.410 | 1582 | 1585 | 1587 | rBV | 1015328 | 865503 | 5.80% | 0.977% |
| 48 | 11.433 | 1587 | 1589 | 1596 | rVV | 537171 | 566524 | 3.80% | 0.639% |
| 49 | 11.698 | 1631 | 1634 | 1637 | rBV | 634834 | 592717 | 3.97% | 0.669% |
| 50 | 11.804 | 1648 | 1652 | 1655 | rBV | 6996087 | 6187646 | 41.48% | 6.984% |
| 51 | 11.945 | 1672 | 1676 | 1681 | rBV2 | 820652 | 887014 | 5.95% | 1.001% |
| 52 | 12.110 | 1701 | 1704 | 1708 | rBV | 565687 | 511872 | 3.43% | 0.578% |
| 53 | 12.157 | 1709 | 1712 | 1717 | rVB3 | 267288 | 298808 | 2.00% | 0.337% |
| 54 | 12.269 | 1728 | 1731 | 1735 | rBV2 | 437773 | 435604 | 2.92% | 0.492% |
| 55 | 12.357 | 1743 | 1746 | 1749 | rVB | 364989 | 301344 | 2.02% | 0.340% |
| 56 | 12.504 | 1762 | 1771 | 1772 | rBV | 10367361 | 14746484 | 98.85% | 16.645% |
| 57 | 12.527 | 1772 | 1775 | 1780 | rVV | 12177406 | 14918315 | 100.00% | 16.839% |
| 58 | 12.598 | 1783 | 1787 | 1790 | rVV | 3691457 | 3245840 | 21.76% | 3.664% |
| 59 | 12.669 | 1796 | 1799 | 1807 | rVB | 2582502 | 2914755 | 19.54% | 3.290% |
| 60 | 12.727 | 1807 | 1809 | 1815 | rVB3 | 233652 | 243721 | 1.63% | 0.275% |
| 61 | 12.827 | 1824 | 1826 | 1829 | rBV4 | 190310 | 180899 | 1.21% | 0.204% |
| 62 | 12.857 | 1829 | 1831 | 1839 | rVB2 | 490185 | 722741 | 4.84% | 0.816% |
| 63 | 12.998 | 1852 | 1855 | 1858 | rVB | 2482867 | 2106018 | 14.12% | 2.377% |
| 64 | 13.139 | 1876 | 1879 | 1882 | rBV | 1053942 | 879991 | 5.90% | 0.993% |
| 65 | 13.227 | 1891 | 1894 | 1895 | rBV | 298470 | 294873 | 1.98% | 0.333% |
| 66 | 13.316 | 1907 | 1909 | 1912 | rVB | 368906 | 313730 | 2.10% | 0.354% |
| 67 | 13.569 | 1949 | 1952 | 1954 | rBV | 227445 | 186094 | 1.25% | 0.210% |
| 68 | 13.727 | 1976 | 1979 | 1985 | rVB3 | 504171 | 553707 | 3.71% | 0.625% |
| 69 | 13.892 | 2004 | 2007 | 2013 | rVB | 305415 | 313028 | 2.10% | 0.353% |
| 70 | 13.986 | 2020 | 2023 | 2028 | rBV | 369753 | 367909 | 2.47% | 0.415% |
| 71 | 14.057 | 2031 | 2035 | 2037 | rBV2 | 829432 | 846751 | 5.68% | 0.956% |

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF010919\
Data File : BF111963.D
Acq On : 9 Jan 2019 21:31
Operator : JU/SJ
Sample : K1044-04
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** CPSB-11(20-25)

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-BF010719.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 14.210 | 2059 | 2061 | 2064 | rVB | 226348 | 181593 | 1.22% | 0.205% |
| 73 | 14.516 | 2111 | 2113 | 2119 | rVB | 222716 | 225589 | 1.51% | 0.255% |
| 74 | 14.827 | 2164 | 2166 | 2170 | rVB | 205403 | 174303 | 1.17% | 0.197% |
| 75 | 14.951 | 2182 | 2187 | 2196 | rVB | 559422 | 875864 | 5.87% | 0.989% |
| 76 | 15.174 | 2222 | 2225 | 2228 | rVB | 229536 | 244336 | 1.64% | 0.276% |
| 77 | 15.545 | 2284 | 2288 | 2298 | rVB2 | 434016 | 841214 | 5.64% | 0.950% |

Sum of corrected areas: 88594506

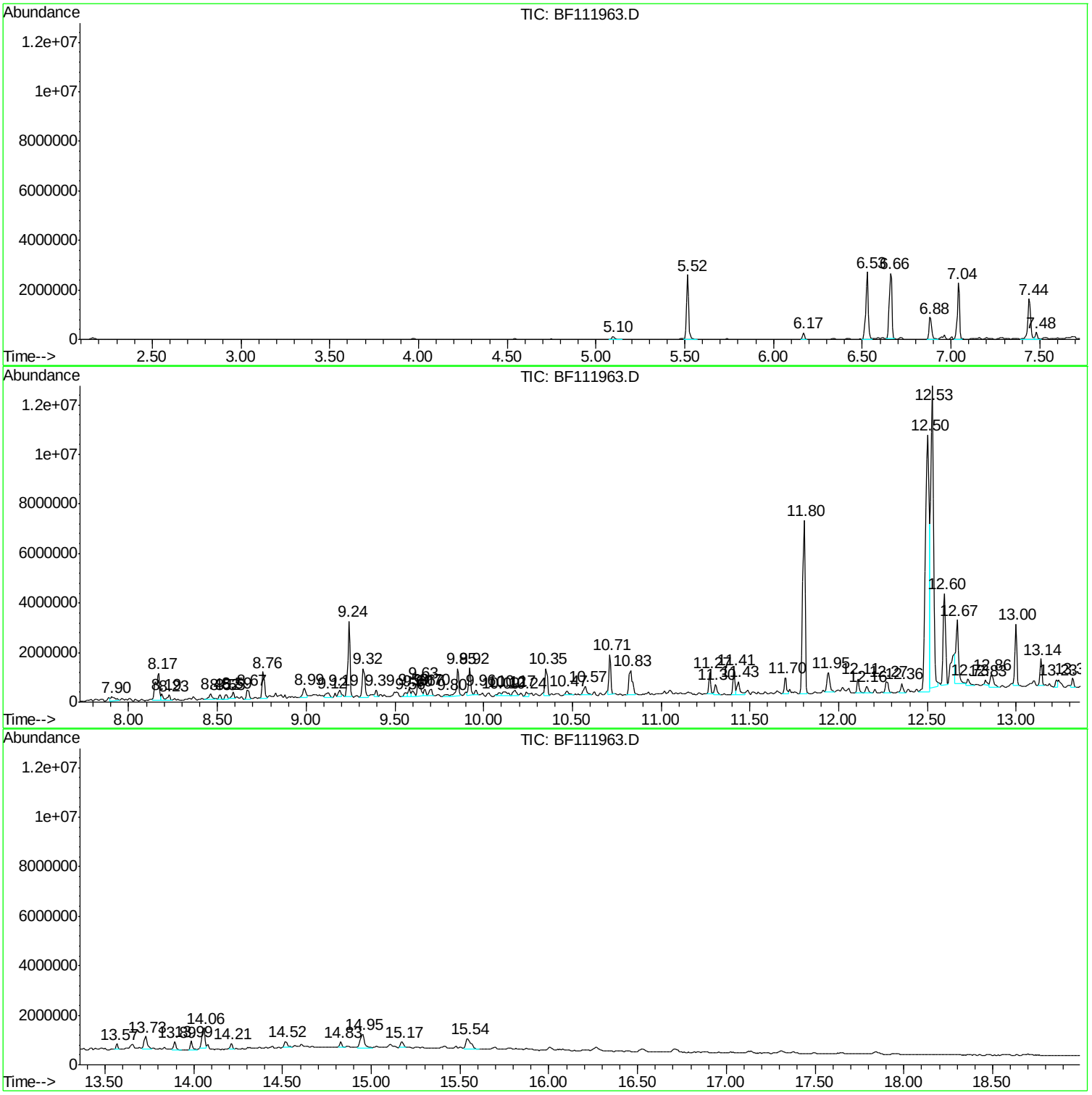
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF010919\
Data File : BF111963.D
Acq On : 9 Jan 2019 21:31
Operator : JU/SJ
Sample : K1044-04
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** CPSB-11(20-25)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF010719.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\BF010919\
Data File : BF111963.D
Acq On : 9 Jan 2019 21:31
Operator : JU/SJ
Sample : K1044-04
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** CPSB-11(20-25)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF010719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

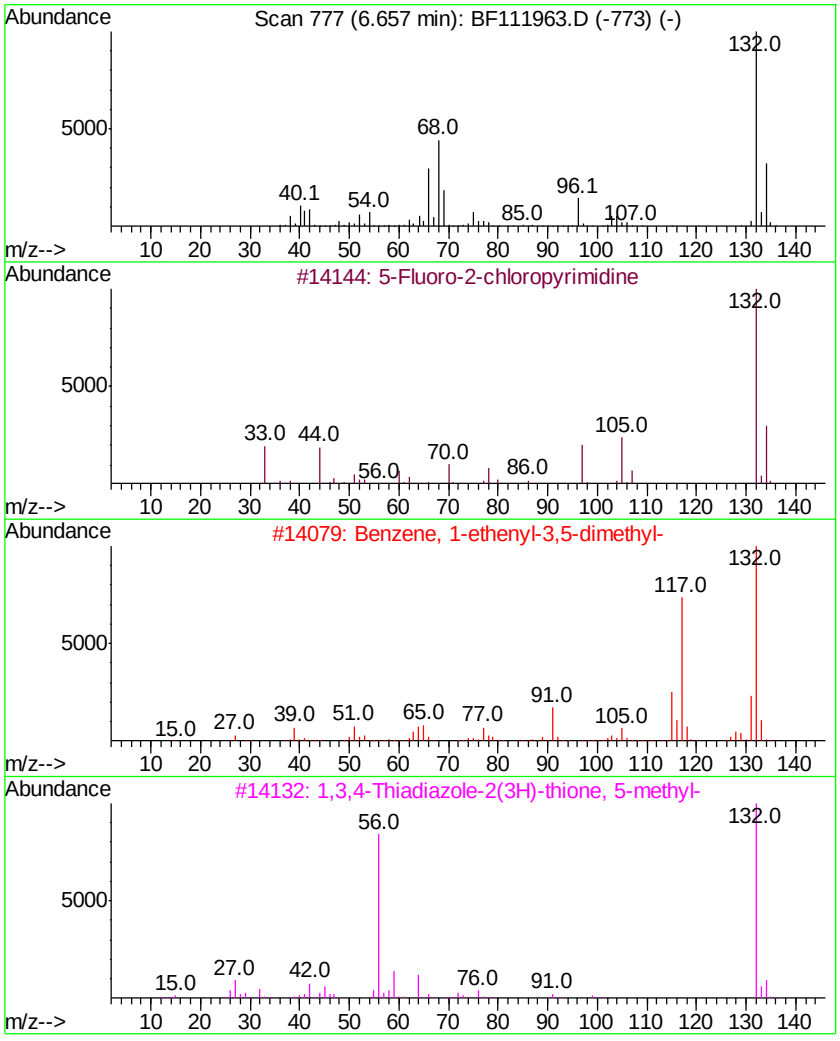
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

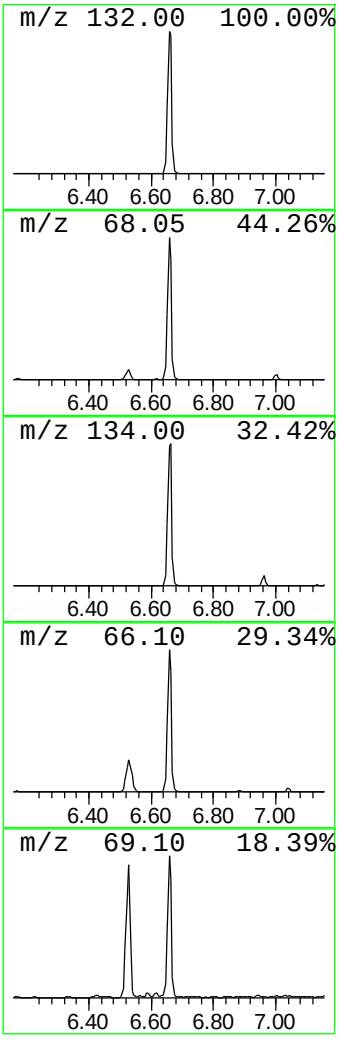
**********

Peak Number 1 unknown6.66 Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.66 | 58.98 ng | 2471180 | 1,4-Dichlorobenzene-d4 | 6.89 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 5-Fluoro-2-chloropyrimidine | 132 | C4H2ClFN2 | 062802-42-0 | 16 |
| 2 | Benzene, 1-ethenyl-3,5-dimethyl- | 132 | C10H12 | 005379-20-4 | 9 |
| 3 | 1,3,4-Thiadiazole-2(3H)-thione, ... | 132 | C3H4N2S2 | 029490-19-5 | 9 |
| 4 | 1-Methylpyrrolo[1,2-a]pyrazine | 132 | C8H8N2 | 064608-59-9 | 9 |
| 5 | 2H-Cyclopenta[d]pyridazine, 2-me... | 132 | C8H8N2 | 022291-85-6 | 9 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF010919\
Data File : BF111963.D
Acq On : 9 Jan 2019 21:31
Operator : JU/SJ
Sample : K1044-04
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** CPSB-11(20-25)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF010719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

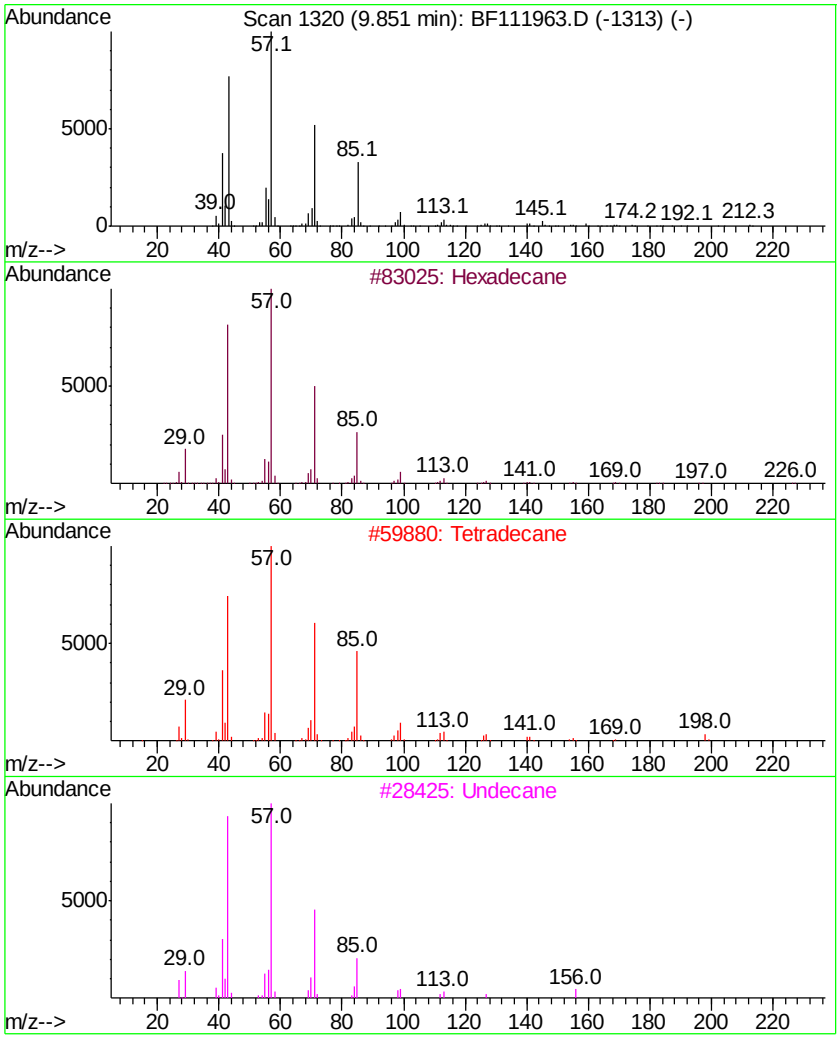
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

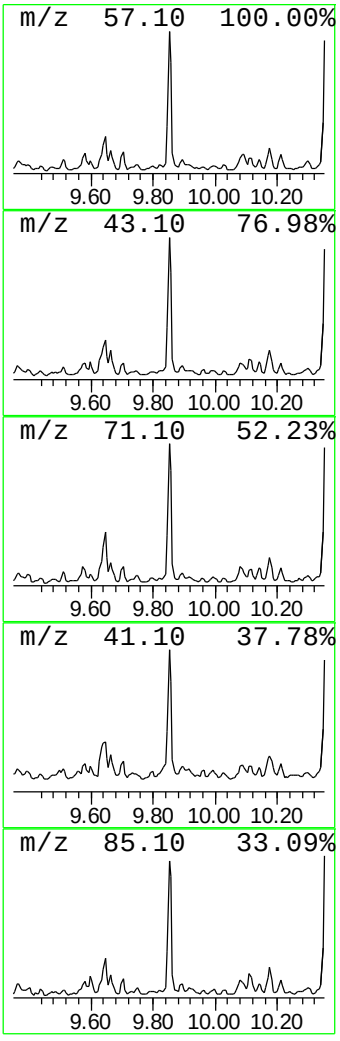
**********

Peak Number 5 Hexadecane Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.85 | 22.57 ng | 1088170 | Acenaphthene-d10 | 9.92 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexadecane | 226 | C16H34 | 000544-76-3 | 91 |
| 2 | Tetradecane | 198 | C14H30 | 000629-59-4 | 90 |
| 3 | Undecane | 156 | C11H24 | 001120-21-4 | 86 |
| 4 | Decane, 6-ethyl-2-methyl- | 184 | C13H28 | 062108-21-8 | 83 |
| 5 | Tridecane | 184 | C13H28 | 000629-50-5 | 78 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF010919\
Data File : BF111963.D
Acq On : 9 Jan 2019 21:31
Operator : JU/SJ
Sample : K1044-04
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** CPSB-11(20-25)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF010719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

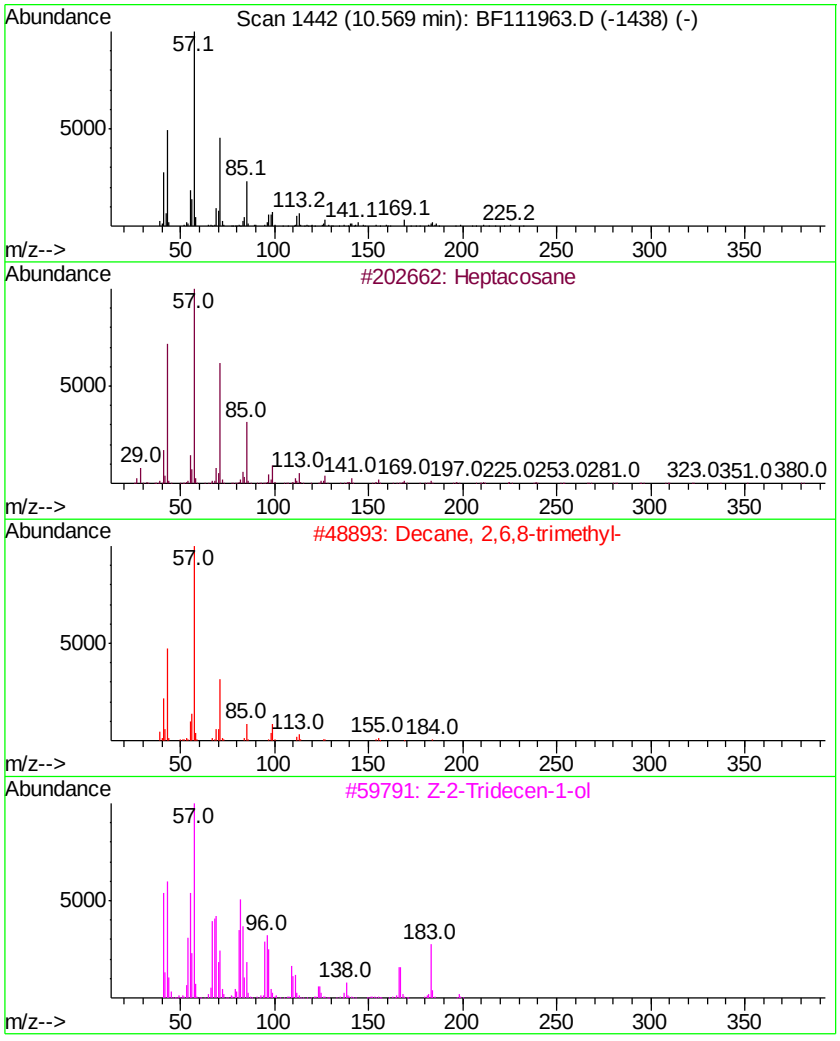
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

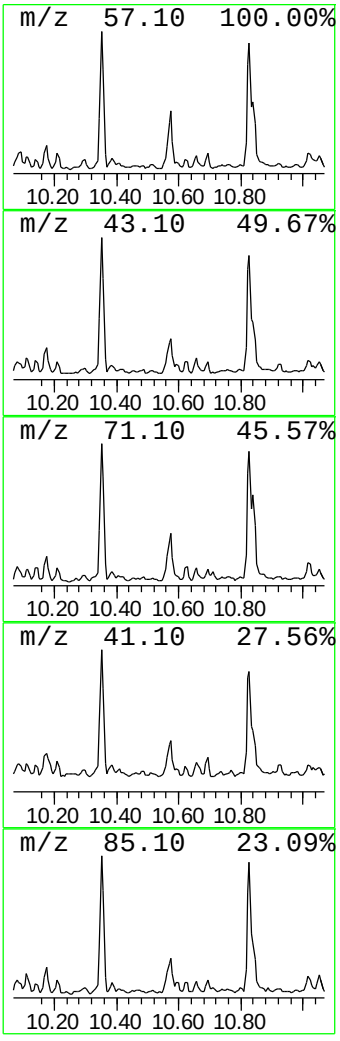
**********

Peak Number 7 Heptacosane Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.57 | 10.54 ng | 508332 | Acenaphthene-d10 | 9.92 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptacosane | 380 | C27H56 | 000593-49-7 | 80 |
| 2 | Decane, 2,6,8-trimethyl- | 184 | C13H28 | 062108-26-3 | 76 |
| 3 | Z-2-Tridecen-1-ol | 198 | C13H26O | 1000130-75-8 | 74 |
| 4 | Heptadecane, 2,6,10,15-tetramethyl- | 296 | C21H44 | 054833-48-6 | 72 |
| 5 | Hexadecane | 226 | C16H34 | 000544-76-3 | 64 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF010919\
Data File : BF111963.D
Acq On : 9 Jan 2019 21:31
Operator : JU/SJ
Sample : K1044-04
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** CPSB-11(20-25)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF010719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

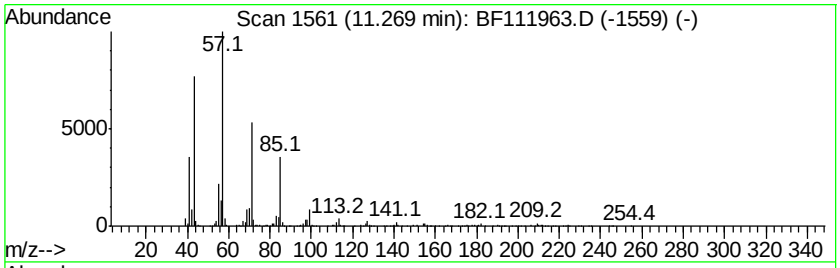
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

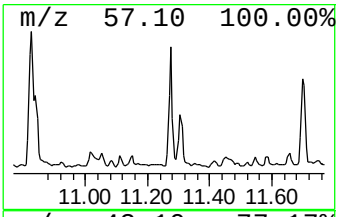
**********

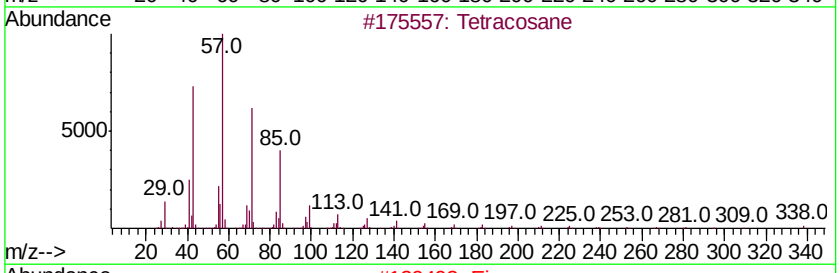
Peak Number 9 Tetracosane Concentration Rank 13

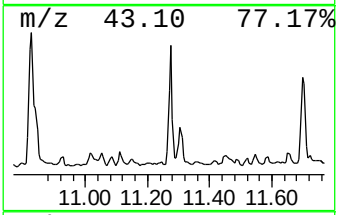
| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.27 | 15.82 ng | 684471 | Phenanthrene-d10 | 11.41 |

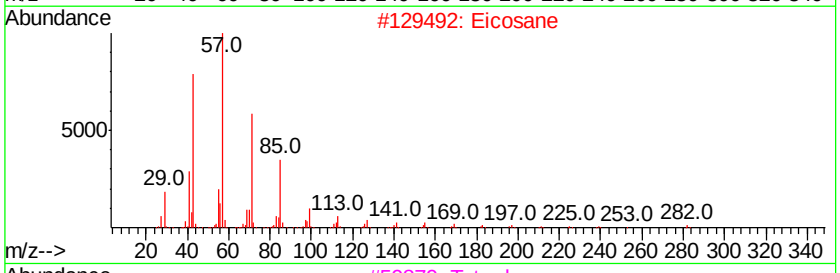
| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Tetracosane | 338 | C24H50 | 000646-31-1 | 90 |
| 2 | Eicosane | 282 | C20H42 | 000112-95-8 | 90 |
| 3 | Tetradecane | 198 | C14H30 | 000629-59-4 | 90 |
| 4 | Dodecane, 2-methyl-6-propyl- | 226 | C16H34 | 055045-08-4 | 90 |
| 5 | Pentadecane | 212 | C15H32 | 000629-62-9 | 90 |

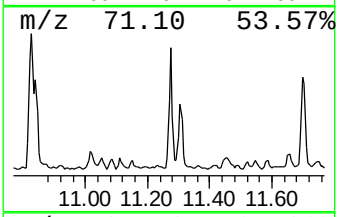


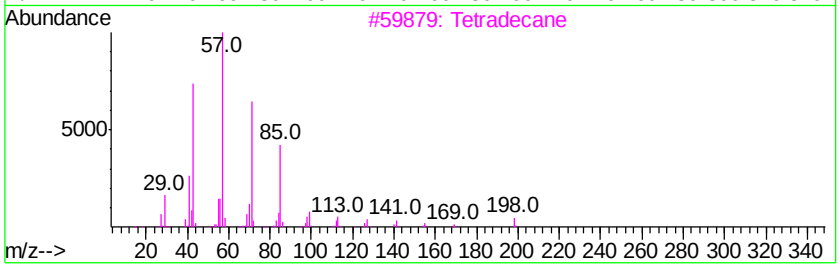



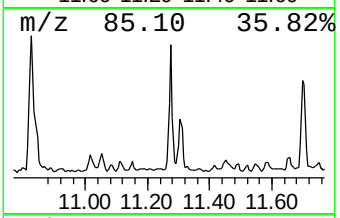



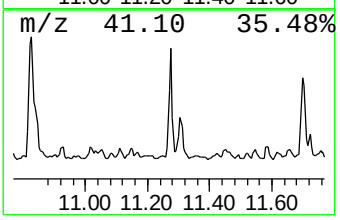



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF010919\
Data File : BF111963.D
Acq On : 9 Jan 2019 21:31
Operator : JU/SJ
Sample : K1044-04
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** CPSB-11(20-25)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF010719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

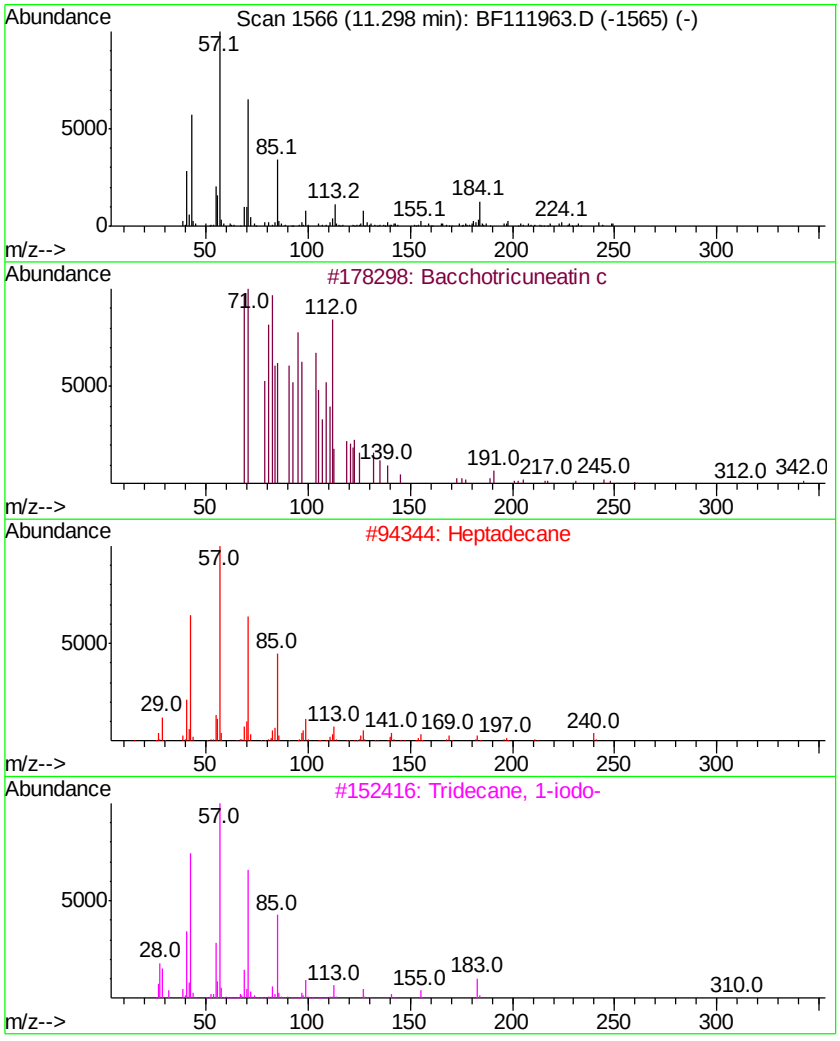
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

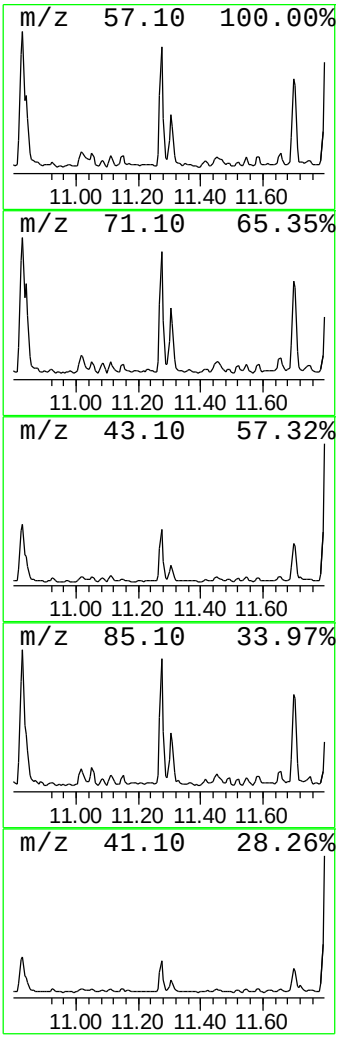
**********

Peak Number 10 Bacchotricuneatin c Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.30 | 10.16 ng | 439587 | Phenanthrene-d10 | 11.41 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Bacchotricuneatin c | 342 | C20H22O5 | 066563-30-2 | 96 |
| 2 | Heptadecane | 240 | C17H36 | 000629-78-7 | 72 |
| 3 | Tridecane, 1-iodo- | 310 | C13H27I | 035599-77-0 | 64 |
| 4 | Dodecane, 2,7,10-trimethyl- | 212 | C15H32 | 074645-98-0 | 64 |
| 5 | 3-Methyl-4-(methoxycarbonyl)hexa... | 184 | C9H12O4 | 1000104-10-8 | 50 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF010919\
Data File : BF111963.D
Acq On : 9 Jan 2019 21:31
Operator : JU/SJ
Sample : K1044-04
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** CPSB-11(20-25)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF010719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

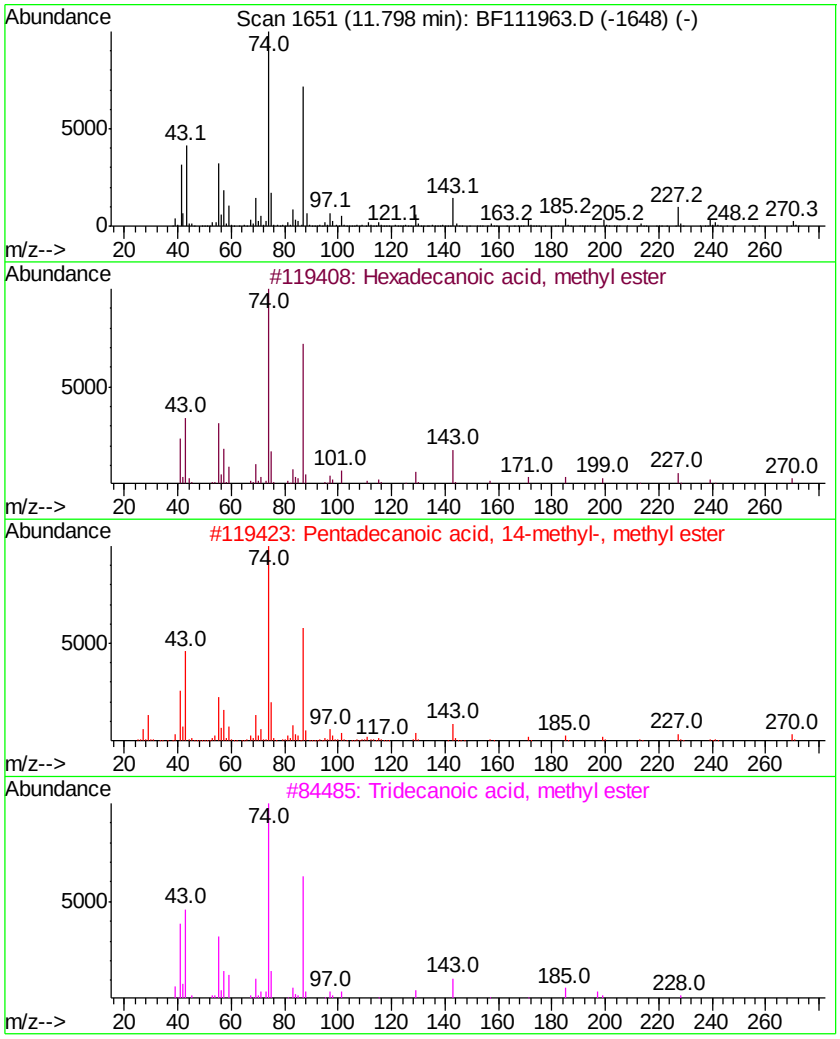
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

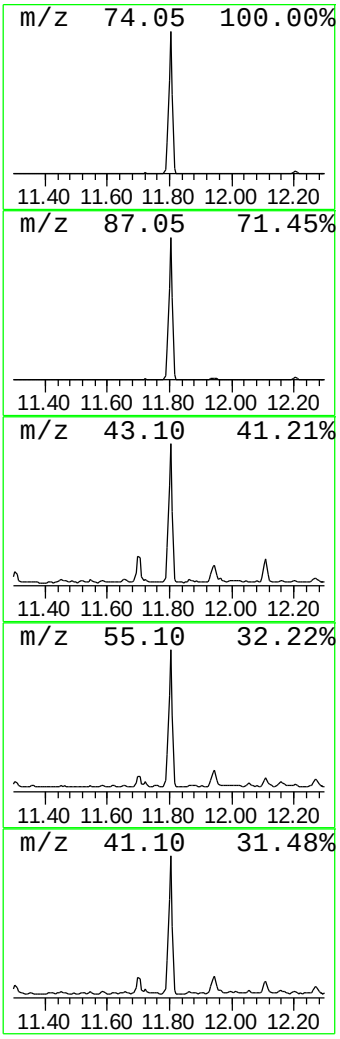
**********

Peak Number 12 Hexadecanoic acid, methyl e... Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.80 | 142.98 ng | 6187650 | Phenanthrene-d10 | 11.41 |

| 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 | 97 |
| 3 | Tridecanoic acid, methyl ester | 228 | C14H28O2 | 001731-88-0 | 91 |
| 4 | Pentadecanoic acid, methyl ester | 256 | C16H32O2 | 007132-64-1 | 90 |
| 5 | Hexadecanoic acid, 15-methyl-, m... | 284 | C18H36O2 | 006929-04-0 | 87 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF010919\
Data File : BF111963.D
Acq On : 9 Jan 2019 21:31
Operator : JU/SJ
Sample : K1044-04
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** CPSB-11(20-25)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF010719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

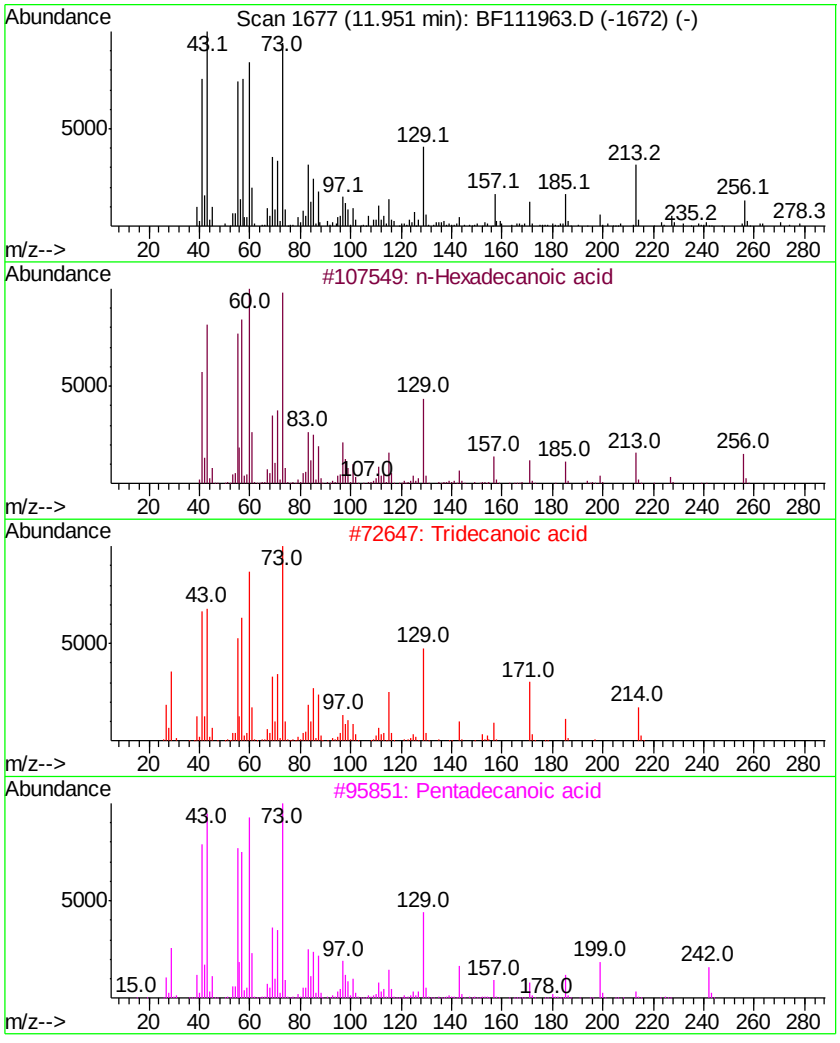
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

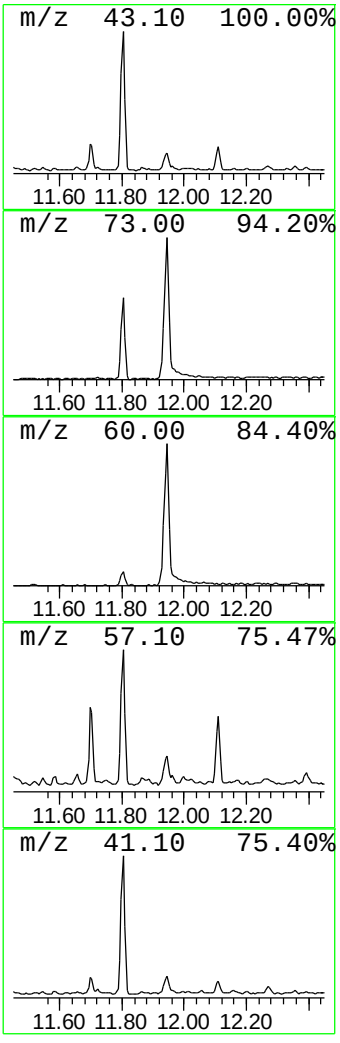
**********

Peak Number 13 n-Hexadecanoic acid Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.95 | 20.50 ng | 887014 | Phenanthrene-d10 | 11.41 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 99 |
| 2 | Tridecanoic acid | 214 | C13H26O2 | 000638-53-9 | 90 |
| 3 | Pentadecanoic acid | 242 | C15H30O2 | 001002-84-2 | 89 |
| 4 | Tetradecanoic acid | 228 | C14H28O2 | 000544-63-8 | 86 |
| 5 | n-Decanoic acid | 172 | C10H20O2 | 000334-48-5 | 55 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF010919\
Data File : BF111963.D
Acq On : 9 Jan 2019 21:31
Operator : JU/SJ
Sample : K1044-04
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** CPSB-11(20-25)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF010719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

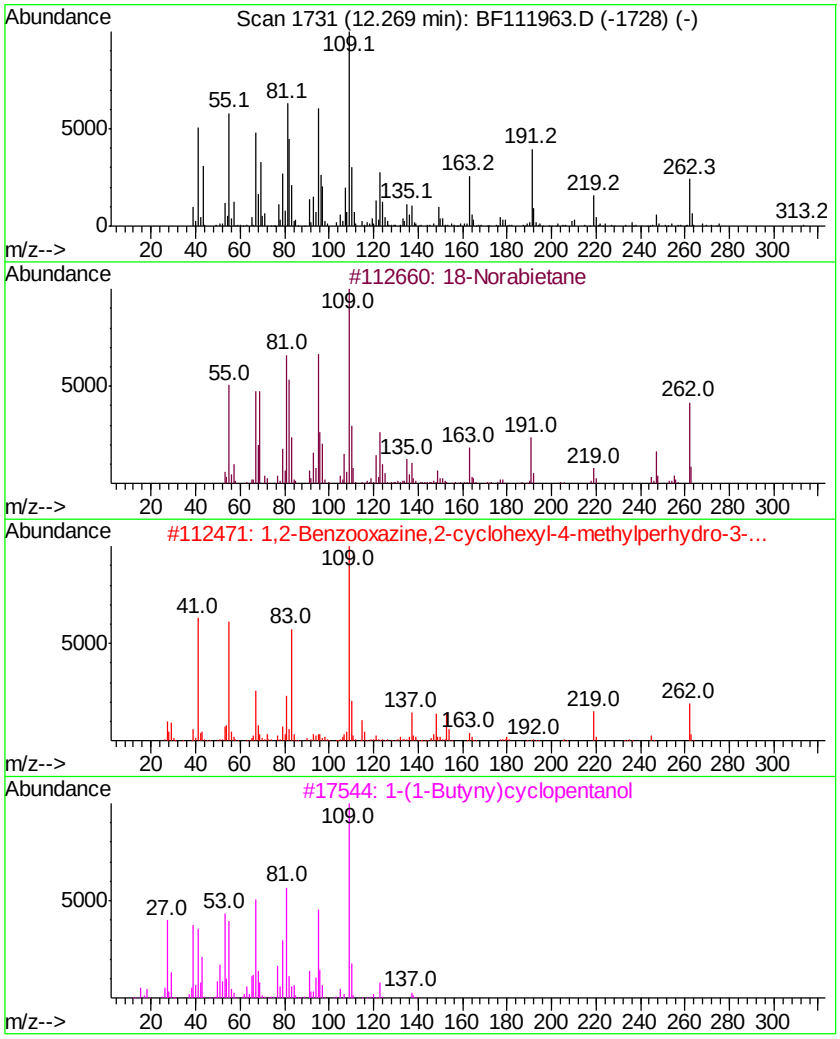
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

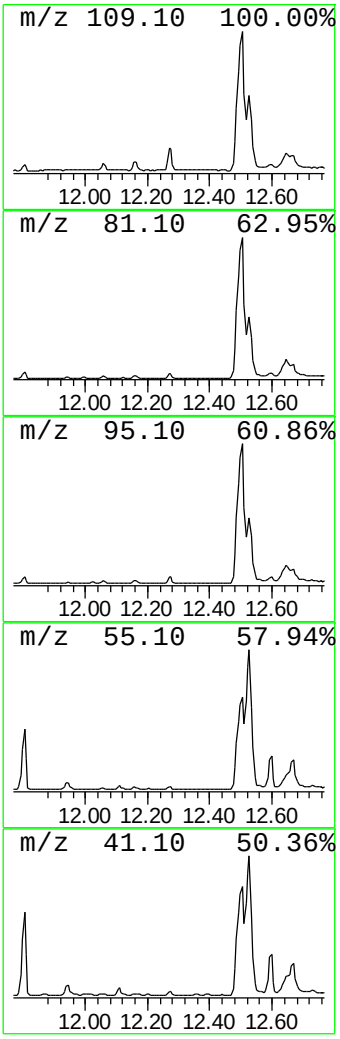
**********

Peak Number 15 18-Norabietane Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.27 | 10.07 ng | 435604 | Phenanthrene-d10 | 11.41 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 18-Norabietane | 262 | C19H34 | 1000293-16-6 | 94 |
| 2 | 1,2-Benzooxazine,2-cyclohexyl-4-... | 262 | C16H26N2O | 037898-39-8 | 38 |
| 3 | 1-(1-Butyny)cyclopentanol | 138 | C9H14O | 1000342-86-5 | 35 |
| 4 | 8-Hexadecyne | 222 | C16H30 | 019781-86-3 | 22 |
| 5 | Cyclopropane, 1,1-dimethyl-2-(2-... | 124 | C9H16 | 033422-32-1 | 22 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF010919\
Data File : BF111963.D
Acq On : 9 Jan 2019 21:31
Operator : JU/SJ
Sample : K1044-04
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** CPSB-11(20-25)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF010719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

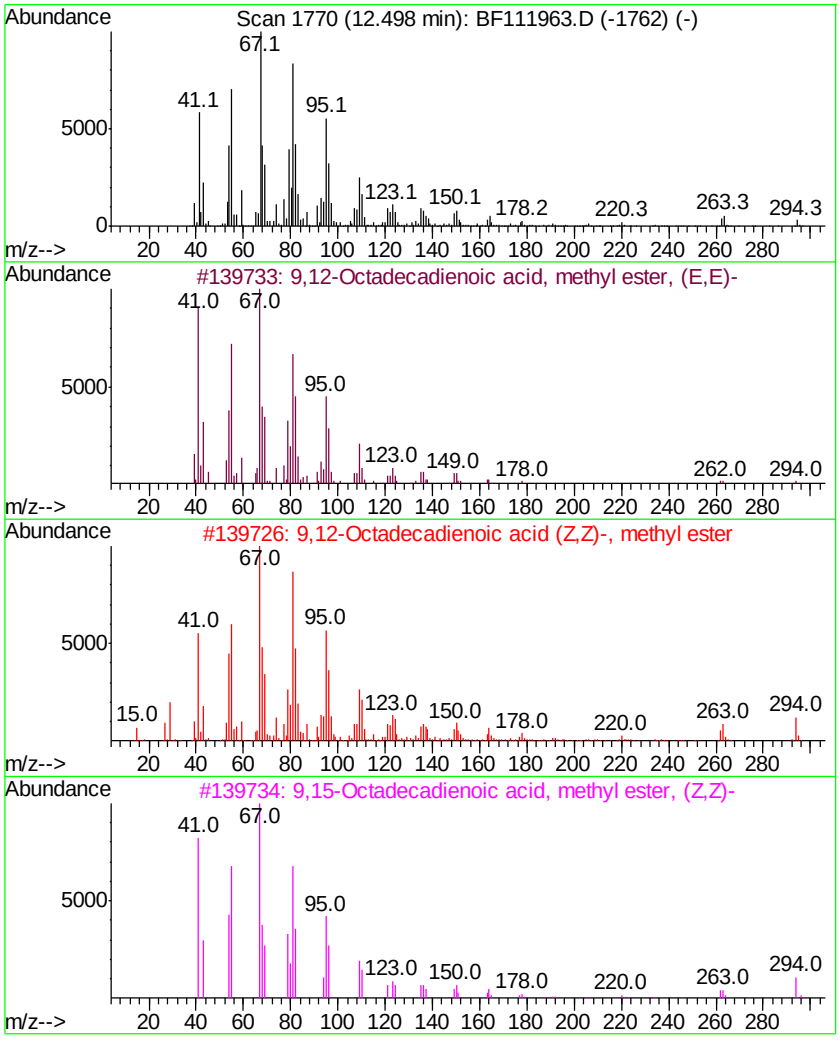
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

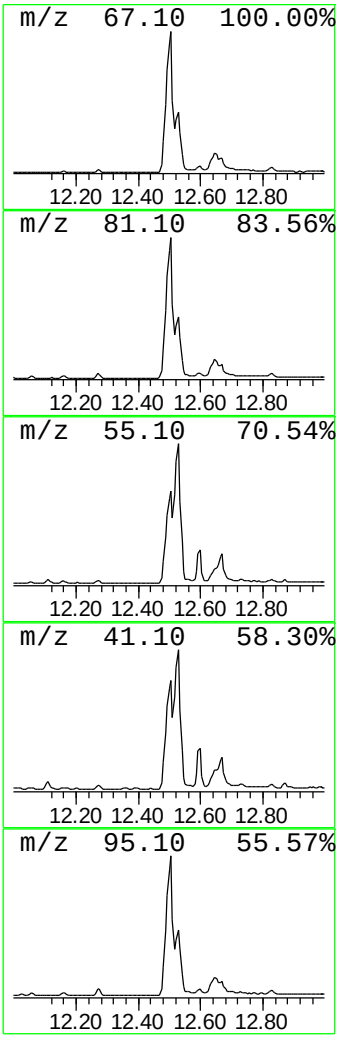
**********

Peak Number 16 9,12-Octadecadienoic acid, ... Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.50 | 340.76 ng | 14746500 | Phenanthrene-d10 | 11.41 |

| 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 | 9,15-Octadecadienoic acid, methy... | 294 | C19H34O2 | 017309-05-6 | 99 |
| 4 | 9,12-Octadecadienoic acid, methy... | 294 | C19H34O2 | 002462-85-3 | 99 |
| 5 | 10,13-Octadecadienoic acid, meth... | 294 | C19H34O2 | 056554-62-2 | 98 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF010919\
Data File : BF111963.D
Acq On : 9 Jan 2019 21:31
Operator : JU/SJ
Sample : K1044-04
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** CPSB-11(20-25)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF010719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

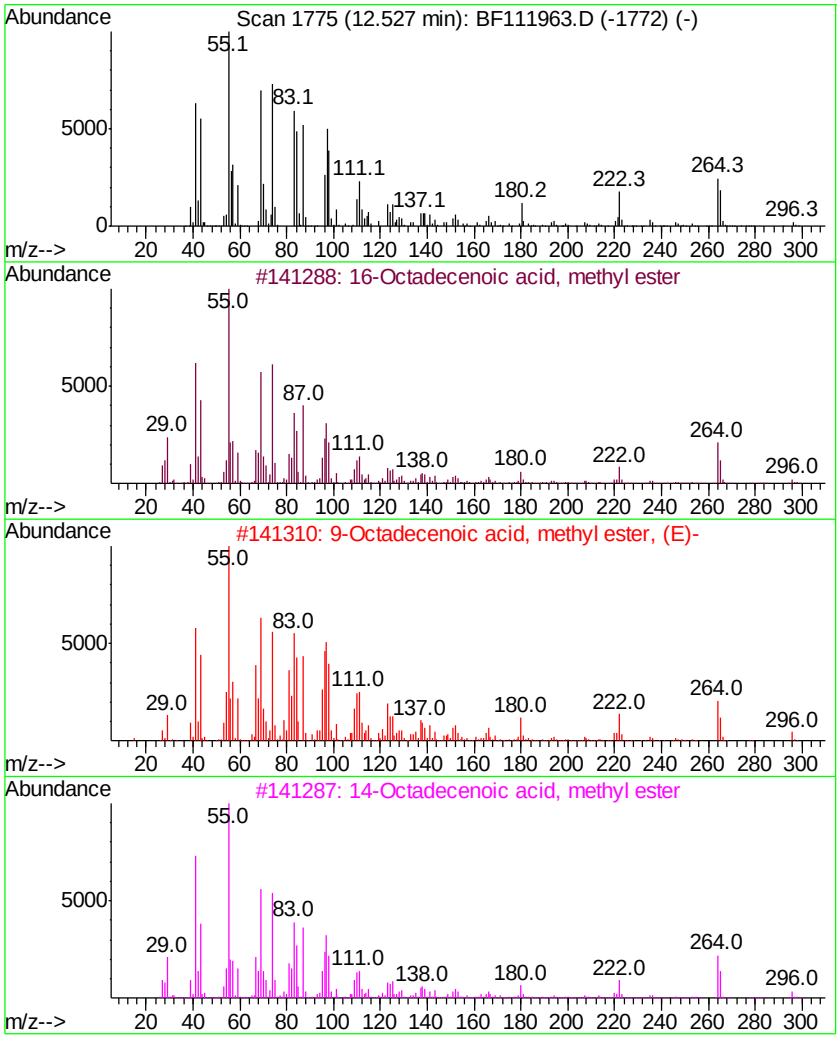
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

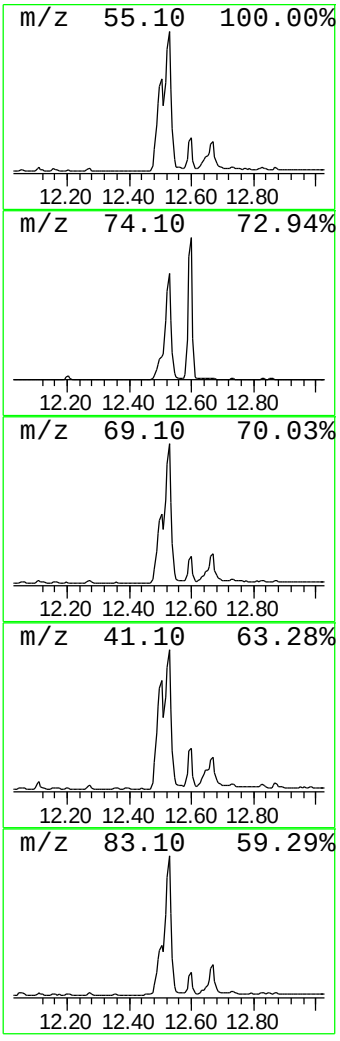
**********

Peak Number 17 16-Octadecenoic acid, methy... Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.53 | 344.73 ng | 14918300 | Phenanthrene-d10 | 11.41 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 16-Octadecenoic acid, methyl ester | 296 | C19H36O2 | 056554-49-5 | 94 |
| 2 | 9-Octadecenoic acid, methyl este... | 296 | C19H36O2 | 001937-62-8 | 90 |
| 3 | 14-Octadecenoic acid, methyl ester | 296 | C19H36O2 | 056554-48-4 | 87 |
| 4 | 6-Octadecenoic acid, methyl este... | 296 | C19H36O2 | 002777-58-4 | 86 |
| 5 | 8-Octadecenoic acid, methyl ester | 296 | C19H36O2 | 002345-29-1 | 86 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF010919\
Data File : BF111963.D
Acq On : 9 Jan 2019 21:31
Operator : JU/SJ
Sample : K1044-04
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** CPSB-11(20-25)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF010719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

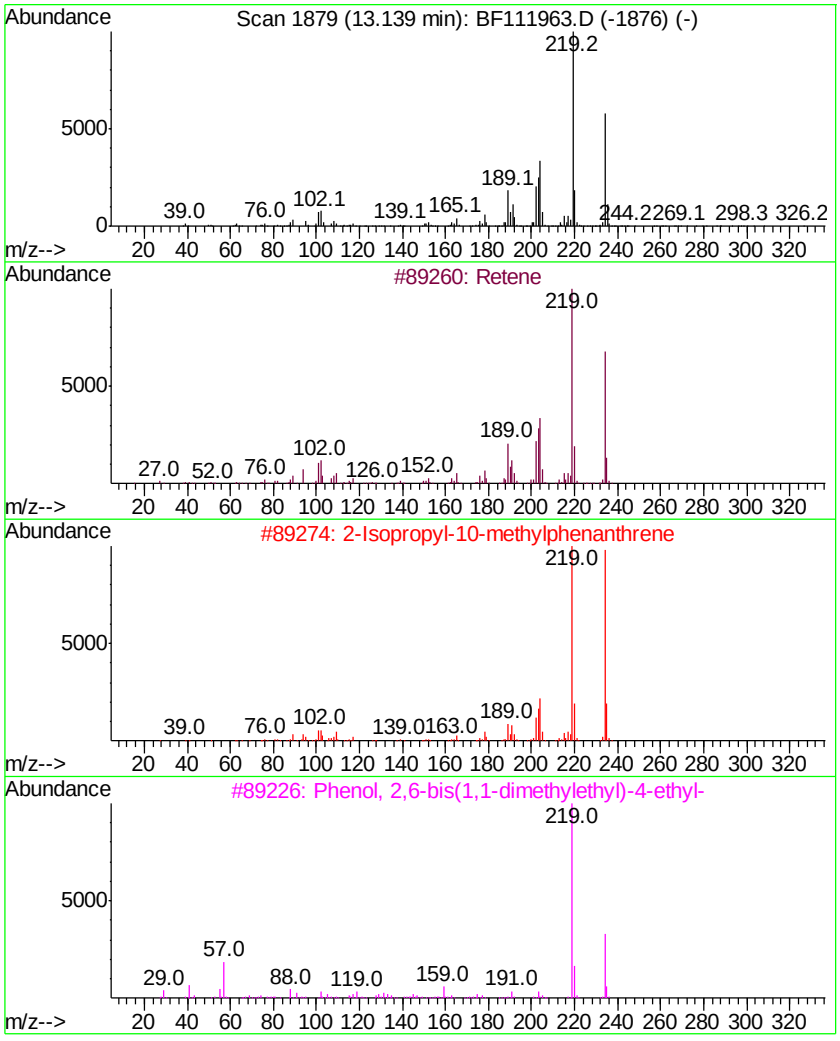
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

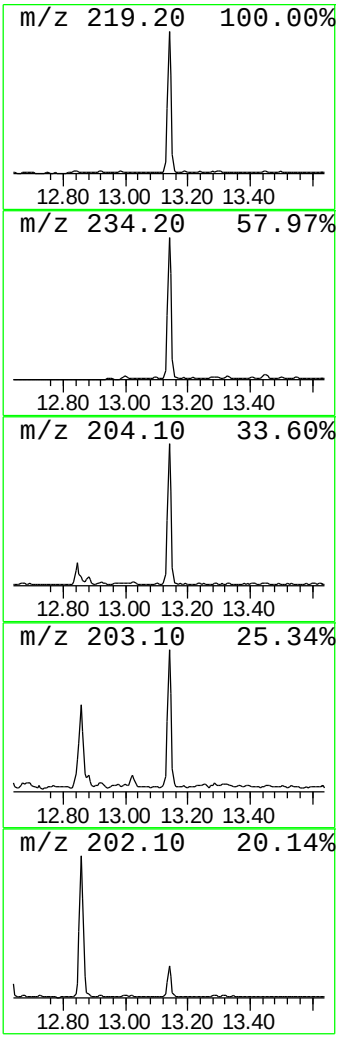
**********

Peak Number 18 Retene Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.14 | 20.79 ng | 879991 | Chrysene-d12 | 14.06 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Retene | 234 | C18H18 | 000483-65-8 | 98 |
| 2 | 2-Isopropyl-10-methylphenanthrene | 234 | C18H18 | 066552-97-4 | 95 |
| 3 | Phenol, 2,6-bis(1,1-dimethylethy... | 234 | C16H26O | 004130-42-1 | 52 |
| 4 | 1-Ethanone, 1-(4-amino-7-chloro-... | 234 | C12H11ClN2O | 1000350-06-0 | 52 |
| 5 | Ethanone, 1-(4,6-dihydroxy-2,3,5... | 234 | C13H14O4 | 021987-07-5 | 52 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF010919\
Data File : BF111963.D
Acq On : 9 Jan 2019 21:31
Operator : JU/SJ
Sample : K1044-04
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** CPSB-11(20-25)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF010719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

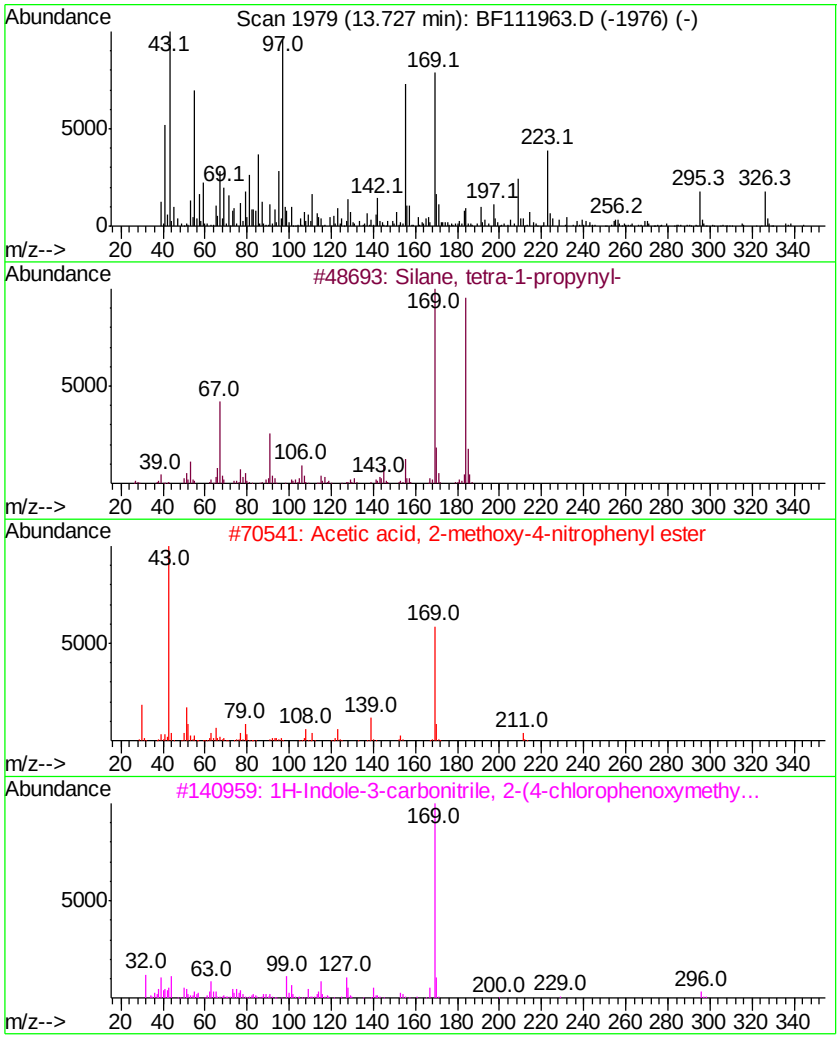
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

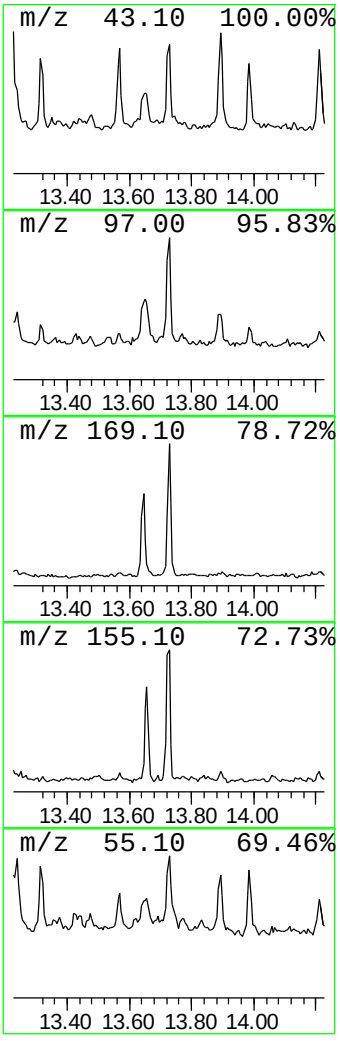
**********

Peak Number 19 unknown13.73 Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.73 | 13.08 ng | 553707 | Chrysene-d12 | 14.06 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Silane, tetra-1-propynyl- | 184 | C12H12Si | 020143-21-9 | 22 |
| 2 | Acetic acid, 2-methoxy-4-nitroph... | 211 | C9H9NO5 | 1000305-16-3 | 20 |
| 3 | 1H-Indole-3-carbonitrile, 2-(4-c... | 296 | C17H13ClN2O | 1000304-36-8 | 18 |
| 4 | 1-methyl-1-cyclohexanecarboxylic... | 224 | C10H15F3O2 | 1000376-54-0 | 18 |
| 5 | Ethanol, 1-(2-methyl-2H-tetrazol... | 239 | C9H13N5OS | 1000316-81-4 | 15 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF010919\
Data File : BF111963.D
Acq On : 9 Jan 2019 21:31
Operator : JU/SJ
Sample : K1044-04
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** CPSB-11(20-25)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF010719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

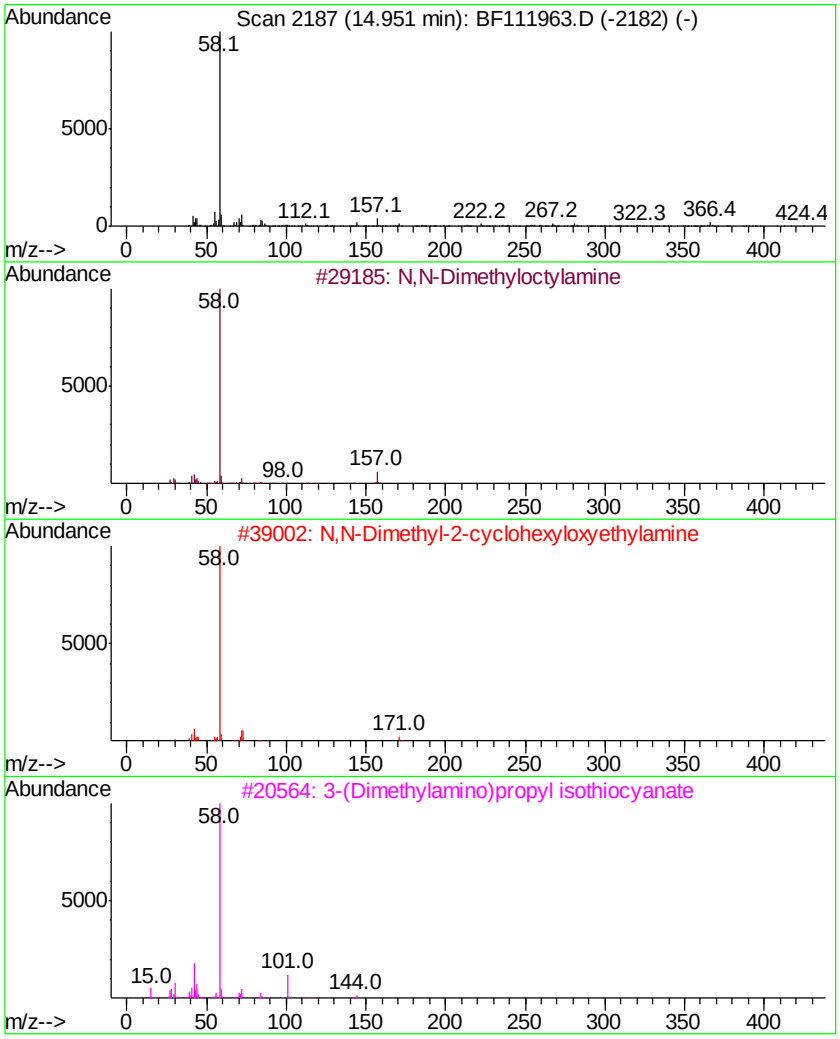
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

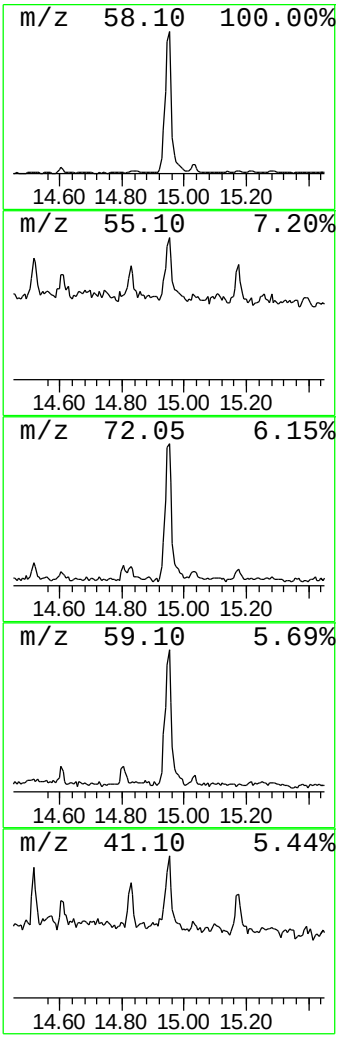
**********

Peak Number 20 N,N-Dimethyloctylamine Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.95 | 20.82 ng | 875864 | Perylene-d12 | 15.54 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | N,N-Dimethyloctylamine | 157 | C10H23N | 007378-99-6 | 80 |
| 2 | N,N-Dimethyl-2-cyclohexyloxyethy... | 171 | C10H21NO | 071126-60-8 | 64 |
| 3 | 3-(Dimethylamino)propyl isothioc... | 144 | C6H12N2S | 027421-70-1 | 64 |
| 4 | 2-Butanone, 4-(dimethylamino)-3-... | 129 | C7H15NO | 022104-62-7 | 64 |
| 5 | 1-Hexanamine, 2-ethyl-N,N-dimethyl- | 157 | C10H23N | 028056-87-3 | 64 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF010919\
Data File : BF111963.D
Acq On : 9 Jan 2019 21:31
Operator : JU/SJ
Sample : K1044-04
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** CPSB-11(20-25)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF010719.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 |
| unknown6.66 | 6.66 | 59.0 | ng | 2471180 | 1 | 6.89 | 838022 | 20.0 |
| Hexadecane | 9.85 | 22.6 | ng | 1088170 | 3 | 9.92 | 964298 | 20.0 |
| Heptacosane | 10.57 | 10.5 | ng | 508332 | 3 | 9.92 | 964298 | 20.0 |
| Tetracosane | 11.27 | 15.8 | ng | 684471 | 4 | 11.41 | 865503 | 20.0 |
| Bacchotricuneatin c | 11.30 | 10.2 | ng | 439587 | 4 | 11.41 | 865503 | 20.0 |
| Hexadecanoic acid... | 11.80 | 143.0 | ng | 6187650 | 4 | 11.41 | 865503 | 20.0 |
| n-Hexadecanoic acid | 11.95 | 20.5 | ng | 887014 | 4 | 11.41 | 865503 | 20.0 |
| 18-Norabietane | 12.27 | 10.1 | ng | 435604 | 4 | 11.41 | 865503 | 20.0 |
| 9,12-Octadecadien... | 12.50 | 340.8 | ng | 14746500 | 4 | 11.41 | 865503 | 20.0 |
| 16-Octadecenoic a... | 12.53 | 344.7 | ng | 14918300 | 4 | 11.41 | 865503 | 20.0 |
| Retene | 13.14 | 20.8 | ng | 879991 | 5 | 14.06 | 846751 | 20.0 |
| unknown13.73 | 13.73 | 13.1 | ng | 553707 | 5 | 14.06 | 846751 | 20.0 |
| N,N-Dimethyloctyl... | 14.95 | 20.8 | ng | 875864 | 6 | 15.54 | 841214 | 20.0 |