LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF040319\
Data File : BF113563.D
Acq On : 4 Apr 2019 00:47
Operator : JU/SJ
Sample : K2196-01
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** HD-01-040119

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-BF040319.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 | 5.292 | 542 | 545 | 567 | rBV | 1426429 | 1528555 | 15.67% | 2.789% |
| 2 | 6.328 | 718 | 721 | 735 | rBV | 1633087 | 1624292 | 16.65% | 2.963% |
| 3 | 6.457 | 739 | 743 | 750 | rVB | 1813396 | 1612969 | 16.53% | 2.943% |
| 4 | 6.681 | 778 | 781 | 785 | rBV | 697805 | 663167 | 6.80% | 1.210% |
| 5 | 6.839 | 805 | 808 | 817 | rVB | 1599231 | 1341749 | 13.75% | 2.448% |
| 6 | 7.245 | 874 | 877 | 883 | rVV | 1066122 | 901389 | 9.24% | 1.645% |
| 7 | 7.292 | 883 | 885 | 888 | rVB | 185020 | 130641 | 1.34% | 0.238% |
| 8 | 7.492 | 915 | 919 | 923 | rVB3 | 110869 | 126687 | 1.30% | 0.231% |
| 9 | 7.704 | 950 | 955 | 957 | rBV3 | 69681 | 108306 | 1.11% | 0.198% |
| 10 | 7.963 | 995 | 999 | 1003 | rBV | 1044561 | 968270 | 9.92% | 1.767% |
| 11 | 8.263 | 1045 | 1050 | 1053 | rBV4 | 89582 | 123399 | 1.26% | 0.225% |
| 12 | 8.398 | 1071 | 1073 | 1078 | rVV3 | 118141 | 150760 | 1.55% | 0.275% |
| 13 | 8.469 | 1082 | 1085 | 1089 | rBV2 | 132981 | 131219 | 1.34% | 0.239% |
| 14 | 8.569 | 1098 | 1102 | 1104 | rBV | 276382 | 249679 | 2.56% | 0.456% |
| 15 | 8.792 | 1134 | 1140 | 1145 | rBV4 | 113868 | 158309 | 1.62% | 0.289% |
| 16 | 8.998 | 1173 | 1175 | 1179 | rVB2 | 117151 | 108943 | 1.12% | 0.199% |
| 17 | 9.045 | 1179 | 1183 | 1187 | rBV | 2029050 | 1705554 | 17.48% | 3.112% |
| 18 | 9.133 | 1195 | 1198 | 1202 | rBV | 333422 | 288936 | 2.96% | 0.527% |
| 19 | 9.316 | 1226 | 1229 | 1233 | rVB3 | 124426 | 118264 | 1.21% | 0.216% |
| 20 | 9.451 | 1247 | 1252 | 1254 | rBV2 | 165720 | 268598 | 2.75% | 0.490% |
| 21 | 9.475 | 1254 | 1256 | 1259 | rVV2 | 118826 | 105702 | 1.08% | 0.193% |
| 22 | 9.663 | 1285 | 1288 | 1291 | rBV | 458906 | 336145 | 3.45% | 0.613% |
| 23 | 9.722 | 1292 | 1298 | 1301 | rBV | 877940 | 866409 | 8.88% | 1.581% |
| 24 | 9.904 | 1323 | 1329 | 1330 | rBV4 | 76716 | 130988 | 1.34% | 0.239% |
| 25 | 9.986 | 1340 | 1343 | 1347 | rVB4 | 108604 | 107042 | 1.10% | 0.195% |
| 26 | 10.163 | 1369 | 1373 | 1376 | rBV | 455991 | 406553 | 4.17% | 0.742% |
| 27 | 10.380 | 1406 | 1410 | 1413 | rBV | 178562 | 183207 | 1.88% | 0.334% |
| 28 | 10.510 | 1427 | 1432 | 1436 | rBV | 1098774 | 1026370 | 10.52% | 1.873% |
| 29 | 10.633 | 1450 | 1453 | 1460 | rBV | 553343 | 620312 | 6.36% | 1.132% |
| 30 | 11.080 | 1526 | 1529 | 1531 | rBV | 460632 | 361157 | 3.70% | 0.659% |
| 31 | 11.110 | 1531 | 1534 | 1538 | rVB2 | 206504 | 210799 | 2.16% | 0.385% |
| 32 | 11.204 | 1546 | 1550 | 1552 | rBV | 920179 | 808117 | 8.28% | 1.474% |
| 33 | 11.227 | 1552 | 1554 | 1557 | rVB | 206725 | 174769 | 1.79% | 0.319% |
| 34 | 11.504 | 1598 | 1601 | 1603 | rBV | 424601 | 344725 | 3.53% | 0.629% |

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF040319\
Data File : BF113563.D
Acq On : 4 Apr 2019 00:47
Operator : JU/SJ
Sample : K2196-01
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** HD-01-040119

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-BF040319.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 11.527 | 1603 | 1605 | 1608 | rVB2 | 179713 | 148932 | 1.53% | 0.272% |
| 36 | 11.610 | 1615 | 1619 | 1622 | rBV | 4403729 | 3952721 | 40.51% | 7.212% |
| 37 | 11.745 | 1638 | 1642 | 1650 | rBV2 | 197512 | 312536 | 3.20% | 0.570% |
| 38 | 11.816 | 1650 | 1654 | 1657 | rBV2 | 114652 | 137917 | 1.41% | 0.252% |
| 39 | 11.910 | 1665 | 1670 | 1674 | rBV2 | 354546 | 399239 | 4.09% | 0.728% |
| 40 | 12.004 | 1683 | 1686 | 1689 | rBV3 | 92726 | 108102 | 1.11% | 0.197% |
| 41 | 12.298 | 1731 | 1736 | 1738 | rBV | 5944393 | 8972424 | 91.96% | 16.370% |
| 42 | 12.327 | 1738 | 1741 | 1746 | rVV2 | 7132369 | 9756575 | 100.00% | 17.800% |
| 43 | 12.398 | 1750 | 1753 | 1758 | rBV2 | 2354141 | 2312142 | 23.70% | 4.218% |
| 44 | 12.451 | 1760 | 1762 | 1764 | rBV2 | 115763 | 107448 | 1.10% | 0.196% |
| 45 | 12.633 | 1789 | 1793 | 1794 | rBV2 | 558532 | 657140 | 6.74% | 1.199% |
| 46 | 12.668 | 1797 | 1799 | 1804 | rVB | 310433 | 273720 | 2.81% | 0.499% |
| 47 | 12.786 | 1815 | 1819 | 1822 | rBV | 2074058 | 1879192 | 19.26% | 3.429% |
| 48 | 12.898 | 1836 | 1838 | 1844 | rVB4 | 101738 | 147119 | 1.51% | 0.268% |
| 49 | 12.951 | 1844 | 1847 | 1849 | rBV | 493181 | 475096 | 4.87% | 0.867% |
| 50 | 13.039 | 1857 | 1862 | 1865 | rBV2 | 470169 | 705461 | 7.23% | 1.287% |
| 51 | 13.115 | 1872 | 1875 | 1879 | rVB | 401931 | 351515 | 3.60% | 0.641% |
| 52 | 13.221 | 1891 | 1893 | 1897 | rBV2 | 208389 | 221182 | 2.27% | 0.404% |
| 53 | 13.274 | 1900 | 1902 | 1907 | rVB3 | 128573 | 144820 | 1.48% | 0.264% |
| 54 | 13.368 | 1915 | 1918 | 1922 | rBV | 209459 | 199553 | 2.05% | 0.364% |
| 55 | 13.486 | 1935 | 1938 | 1940 | rBV | 109326 | 121950 | 1.25% | 0.222% |
| 56 | 13.545 | 1944 | 1948 | 1950 | rVB2 | 171146 | 221977 | 2.28% | 0.405% |
| 57 | 13.692 | 1971 | 1973 | 1976 | rBV | 212969 | 191113 | 1.96% | 0.349% |
| 58 | 13.786 | 1986 | 1989 | 1992 | rBV | 303783 | 243909 | 2.50% | 0.445% |
| 59 | 13.839 | 1994 | 1998 | 2001 | rVV2 | 1013395 | 1122075 | 11.50% | 2.047% |
| 60 | 13.863 | 2001 | 2002 | 2005 | rVB | 259633 | 176313 | 1.81% | 0.322% |
| 61 | 14.010 | 2024 | 2027 | 2030 | rVB | 231720 | 211972 | 2.17% | 0.387% |
| 62 | 14.168 | 2051 | 2054 | 2056 | rBV | 95289 | 99406 | 1.02% | 0.181% |
| 63 | 14.315 | 2076 | 2079 | 2082 | rBV | 308179 | 344184 | 3.53% | 0.628% |
| 64 | 14.404 | 2092 | 2094 | 2100 | rVB4 | 145268 | 159621 | 1.64% | 0.291% |
| 65 | 14.610 | 2126 | 2129 | 2133 | rBV | 279822 | 301714 | 3.09% | 0.550% |
| 66 | 14.715 | 2143 | 2147 | 2157 | rBV | 444002 | 679098 | 6.96% | 1.239% |
| 67 | 14.857 | 2168 | 2171 | 2177 | rVB | 209155 | 338905 | 3.47% | 0.618% |
| 68 | 14.921 | 2179 | 2182 | 2186 | rVB | 281889 | 304535 | 3.12% | 0.556% |
| 69 | 15.251 | 2235 | 2238 | 2255 | rVB3 | 521488 | 1039220 | 10.65% | 1.896% |

Sum of corrected areas: 54810807

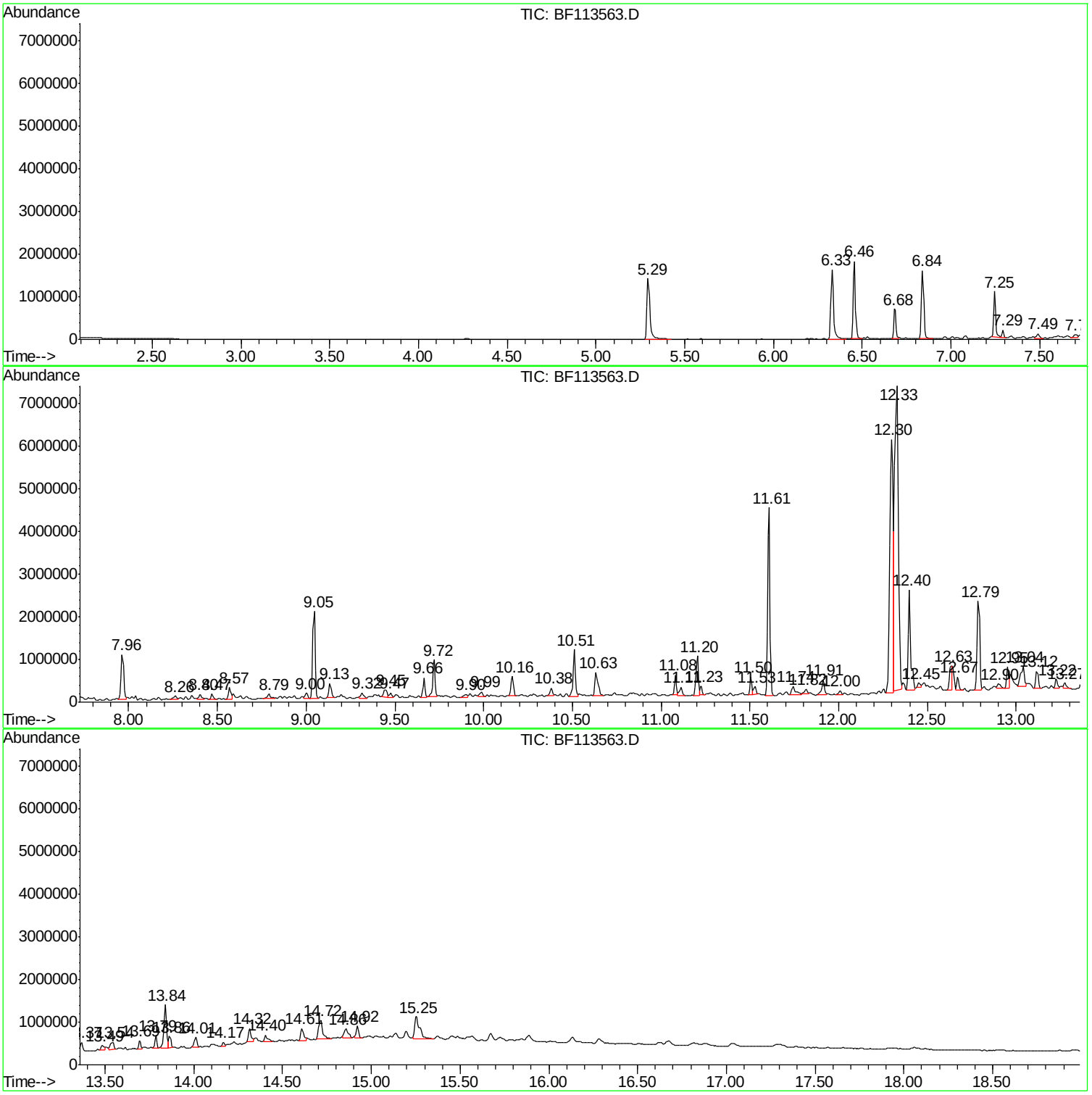
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF040319\
Data File : BF113563.D
Acq On : 4 Apr 2019 00:47
Operator : JU/SJ
Sample : K2196-01
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
HD-01-040119

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040319.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\BF040319\
Data File : BF113563.D
Acq On : 4 Apr 2019 00:47
Operator : JU/SJ
Sample : K2196-01
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** HD-01-040119

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

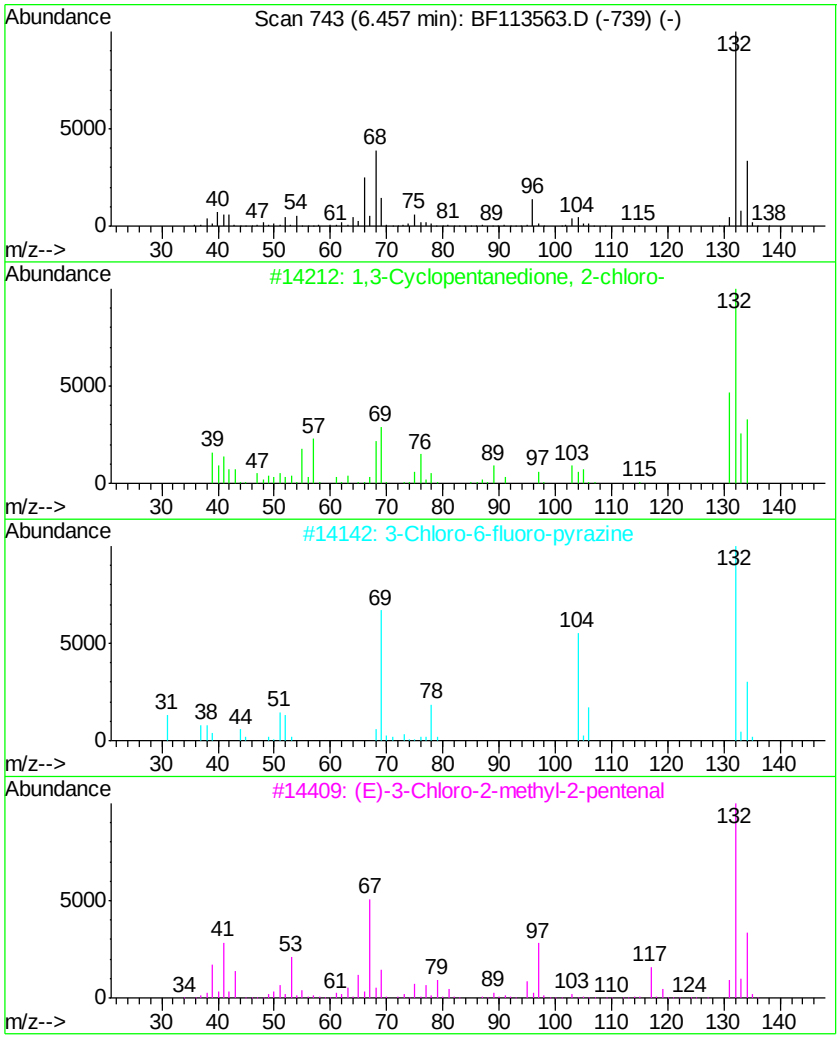
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

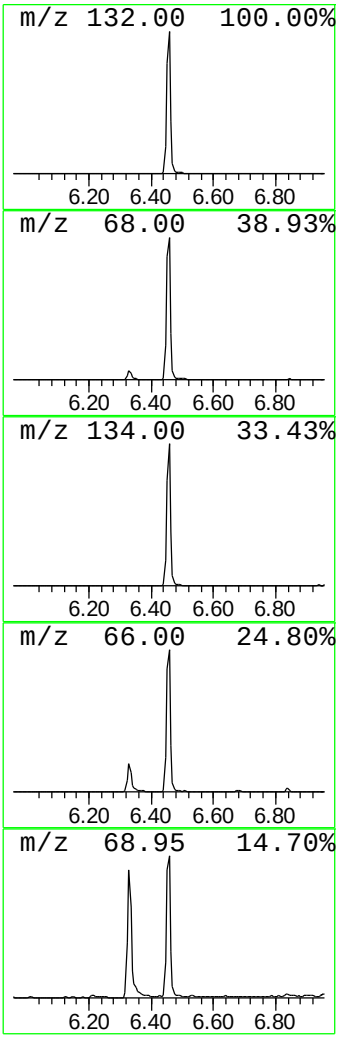
**********

Peak Number 1 unknown6.46 Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.46 | 48.64 ng | 1612970 | 1,4-Dichlorobenzene-d4 | 6.69 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,3-Cyclopentanedione, 2-chloro- | 132 | C5H5ClO2 | 014203-19-1 | 47 |
| 2 | 3-Chloro-6-fluoro-pyrazine | 132 | C4H2ClFN2 | 1000146-10-7 | 27 |
| 3 | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO | 031357-76-3 | 16 |
| 4 | Tranylcypromine-propionyl | 189 | C12H15NO | 1000123-86-3 | 12 |
| 5 | 2H-Cyclopenta[d]pyridazine, 2-me... | 132 | C8H8N2 | 022291-85-6 | 9 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF040319\
Data File : BF113563.D
Acq On : 4 Apr 2019 00:47
Operator : JU/SJ
Sample : K2196-01
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** HD-01-040119

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

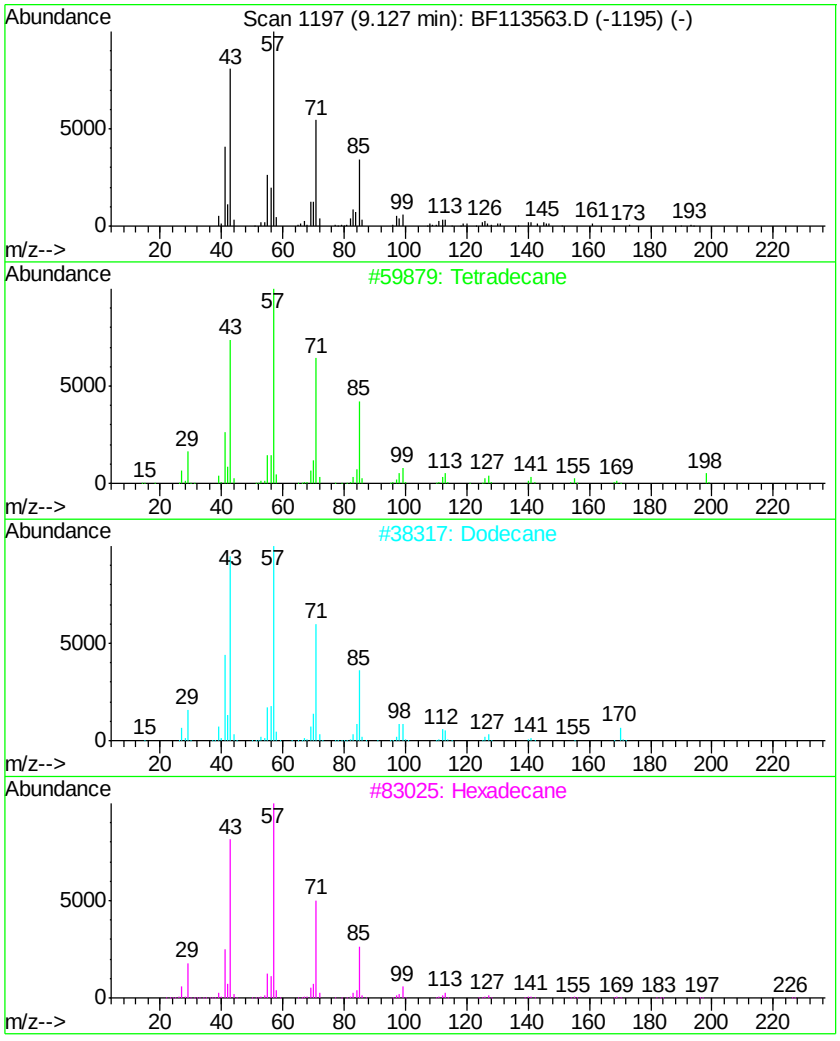
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

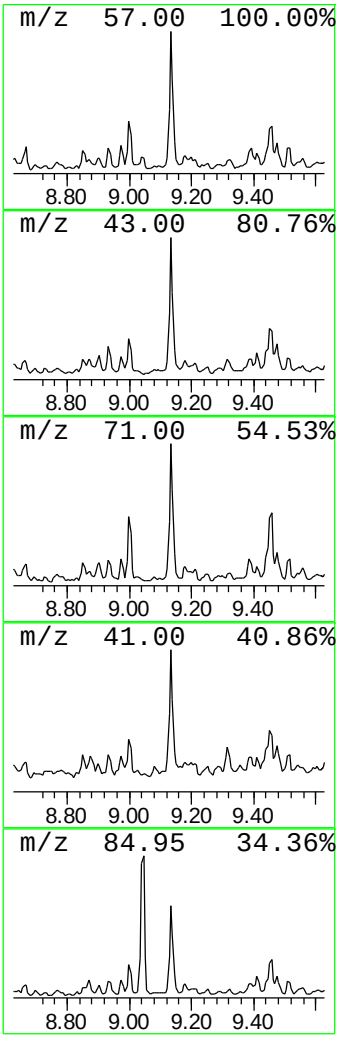
**********

Peak Number 3 Tetradecane Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.13 | 6.67 ng | 288936 | Acenaphthene-d10 | 9.72 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Tetradecane | 198 | C14H30 | 000629-59-4 | 95 |
| 2 | Dodecane | 170 | C12H26 | 000112-40-3 | 91 |
| 3 | Hexadecane | 226 | C16H34 | 000544-76-3 | 91 |
| 4 | Tridecane | 184 | C13H28 | 000629-50-5 | 90 |
| 5 | Undecane | 156 | C11H24 | 001120-21-4 | 86 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF040319\
Data File : BF113563.D
Acq On : 4 Apr 2019 00:47
Operator : JU/SJ
Sample : K2196-01
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** HD-01-040119

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

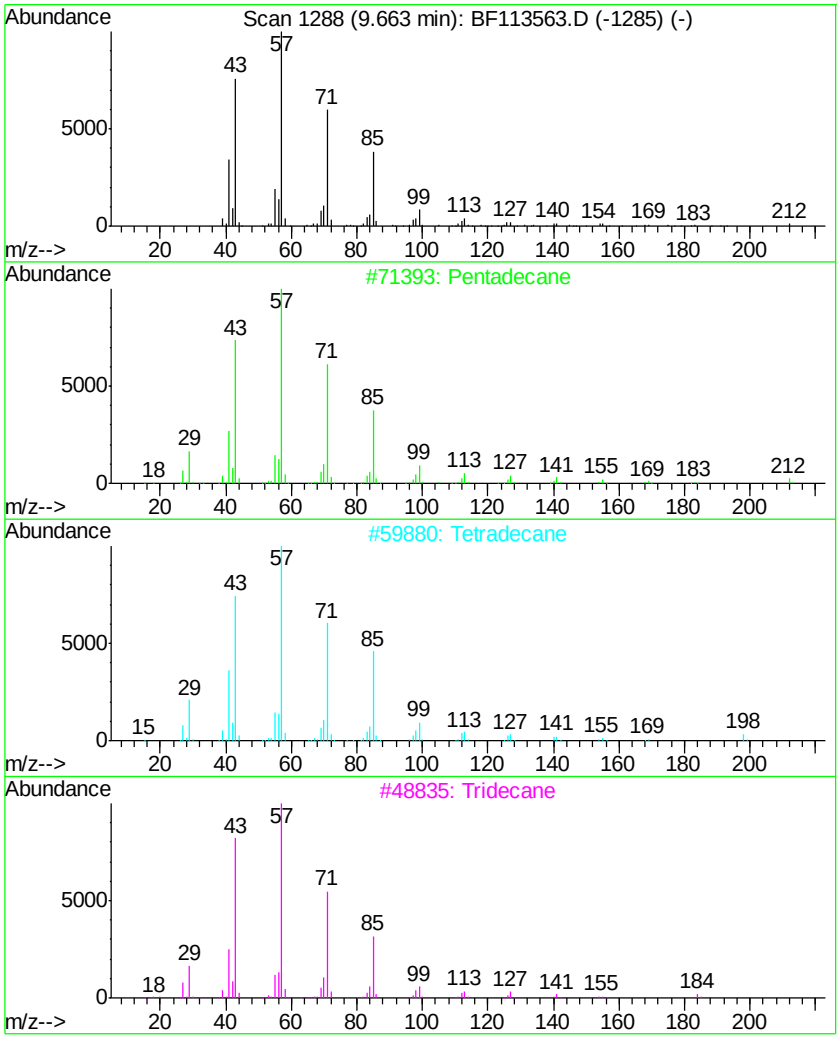
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

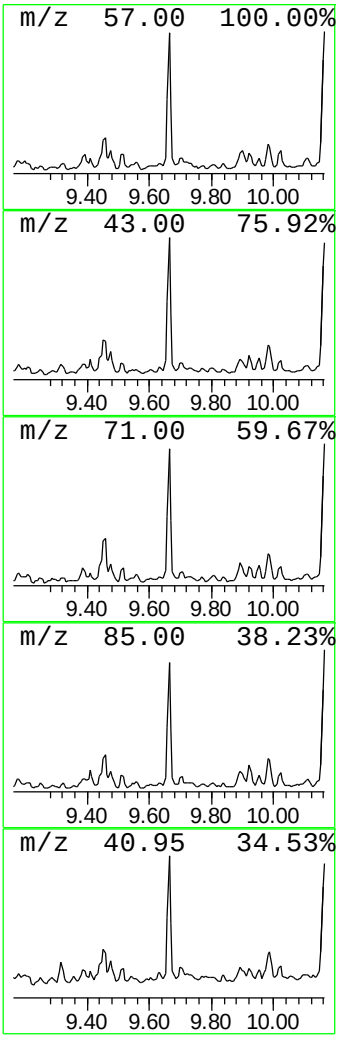
**********

Peak Number 4 Pentadecane Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.66 | 7.76 ng | 336145 | Acenaphthene-d10 | 9.72 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentadecane | 212 | C15H32 | 000629-62-9 | 94 |
| 2 | Tetradecane | 198 | C14H30 | 000629-59-4 | 91 |
| 3 | Tridecane | 184 | C13H28 | 000629-50-5 | 90 |
| 4 | Nonane, 5-butyl- | 184 | C13H28 | 017312-63-9 | 80 |
| 5 | Hexadecane | 226 | C16H34 | 000544-76-3 | 80 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF040319\
Data File : BF113563.D
Acq On : 4 Apr 2019 00:47
Operator : JU/SJ
Sample : K2196-01
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** HD-01-040119

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

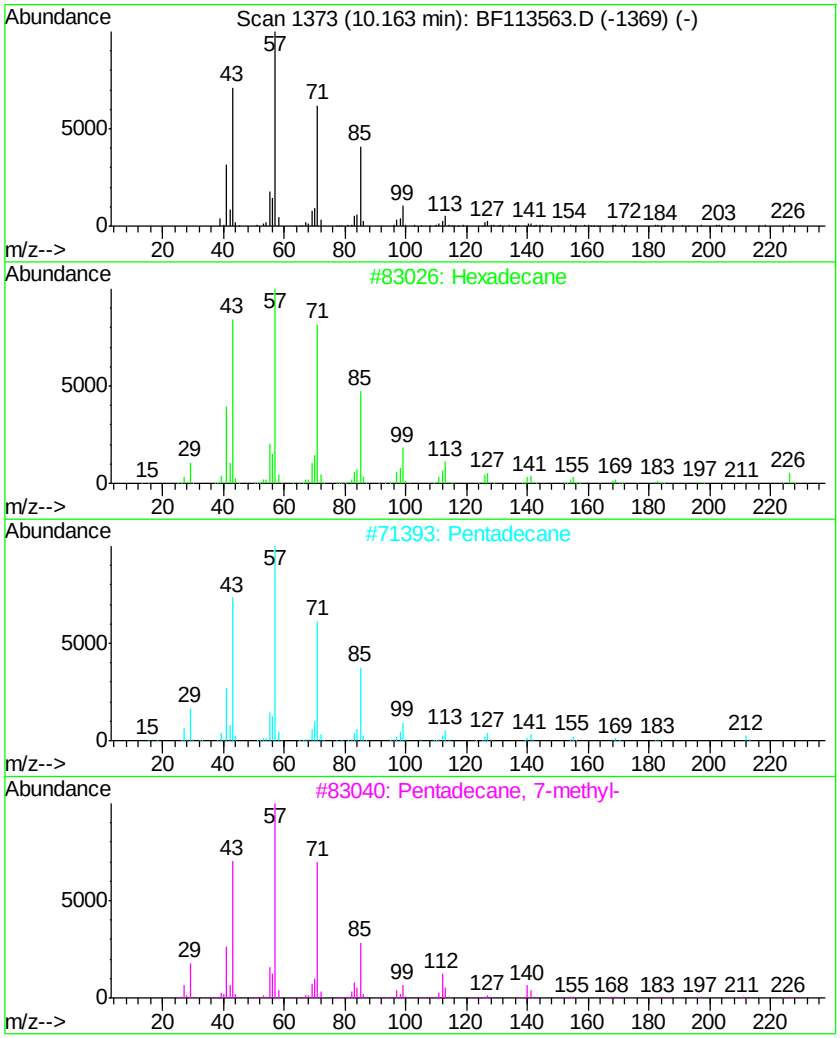
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

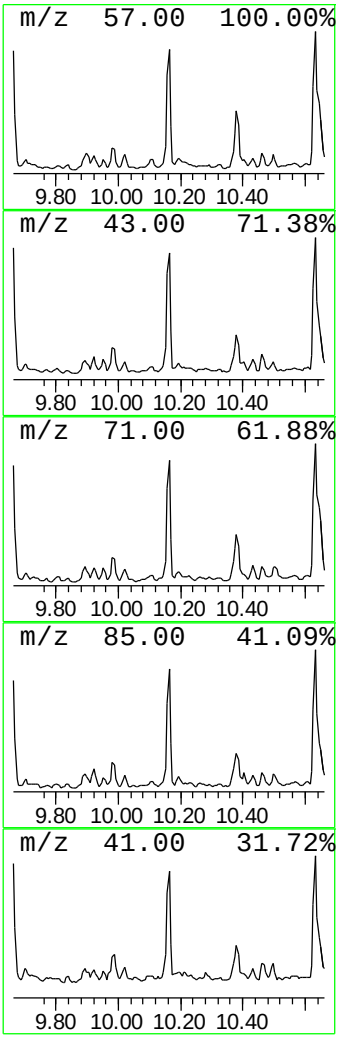
**********

Peak Number 5 Hexadecane Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.16 | 9.38 ng | 406553 | Acenaphthene-d10 | 9.72 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexadecane | 226 | C16H34 | 000544-76-3 | 94 |
| 2 | Pentadecane | 212 | C15H32 | 000629-62-9 | 90 |
| 3 | Pentadecane, 7-methyl- | 226 | C16H34 | 006165-40-8 | 74 |
| 4 | Tetradecane | 198 | C14H30 | 000629-59-4 | 64 |
| 5 | Undecane, 6-ethyl- | 184 | C13H28 | 017312-60-6 | 59 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF040319\
Data File : BF113563.D
Acq On : 4 Apr 2019 00:47
Operator : JU/SJ
Sample : K2196-01
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** HD-01-040119

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

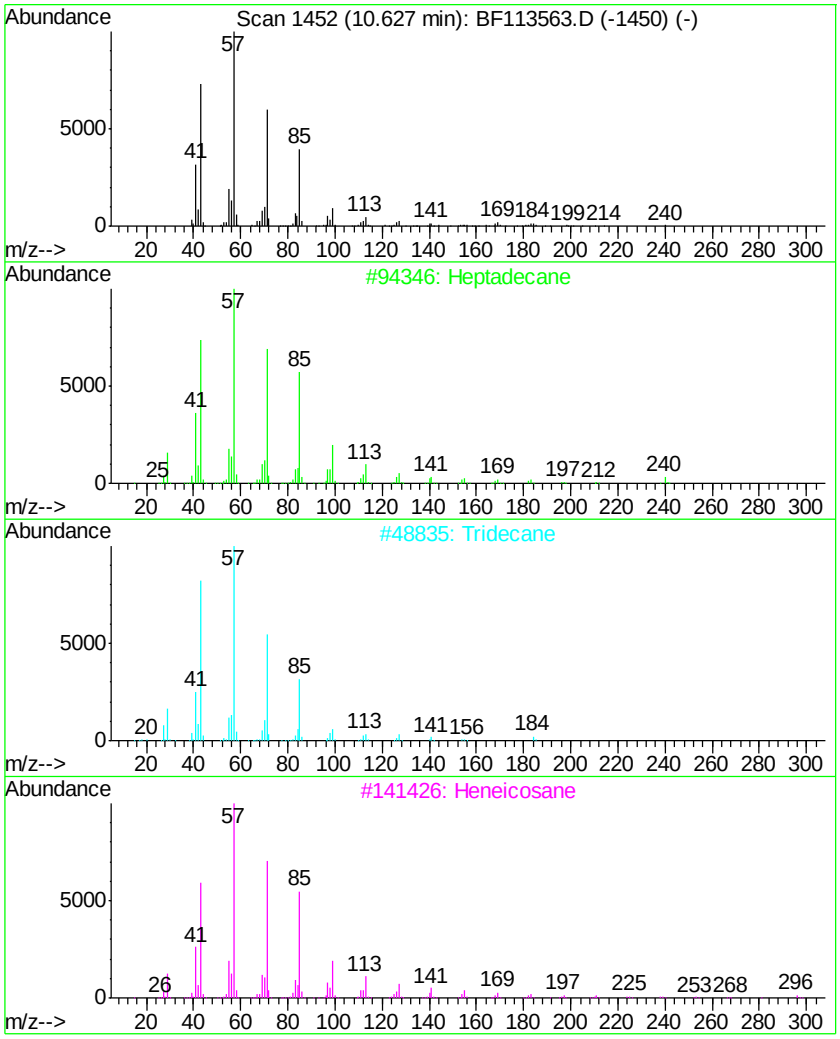
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

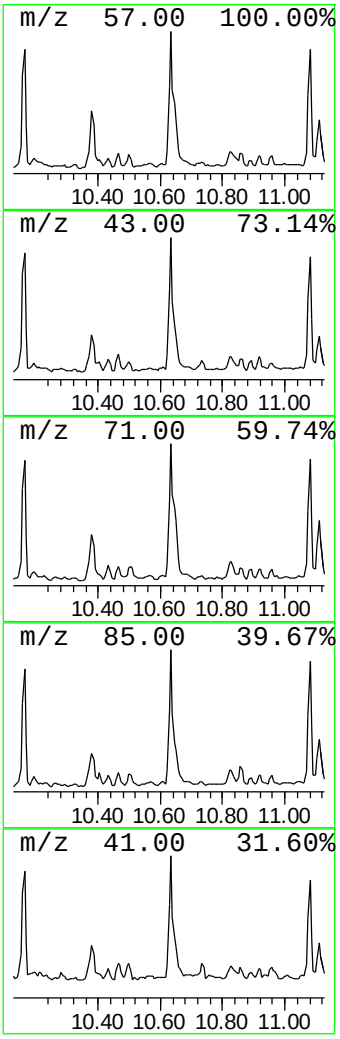
**********

Peak Number 6 Heptadecane Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.63 | 15.35 ng | 620312 | Phenanthrene-d10 | 11.20 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptadecane | 240 | C17H36 | 000629-78-7 | 97 |
| 2 | Tridecane | 184 | C13H28 | 000629-50-5 | 93 |
| 3 | Heneicosane | 296 | C21H44 | 000629-94-7 | 90 |
| 4 | Tetradecane | 198 | C14H30 | 000629-59-4 | 87 |
| 5 | Hexadecane | 226 | C16H34 | 000544-76-3 | 86 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF040319\
Data File : BF113563.D
Acq On : 4 Apr 2019 00:47
Operator : JU/SJ
Sample : K2196-01
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** HD-01-040119

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

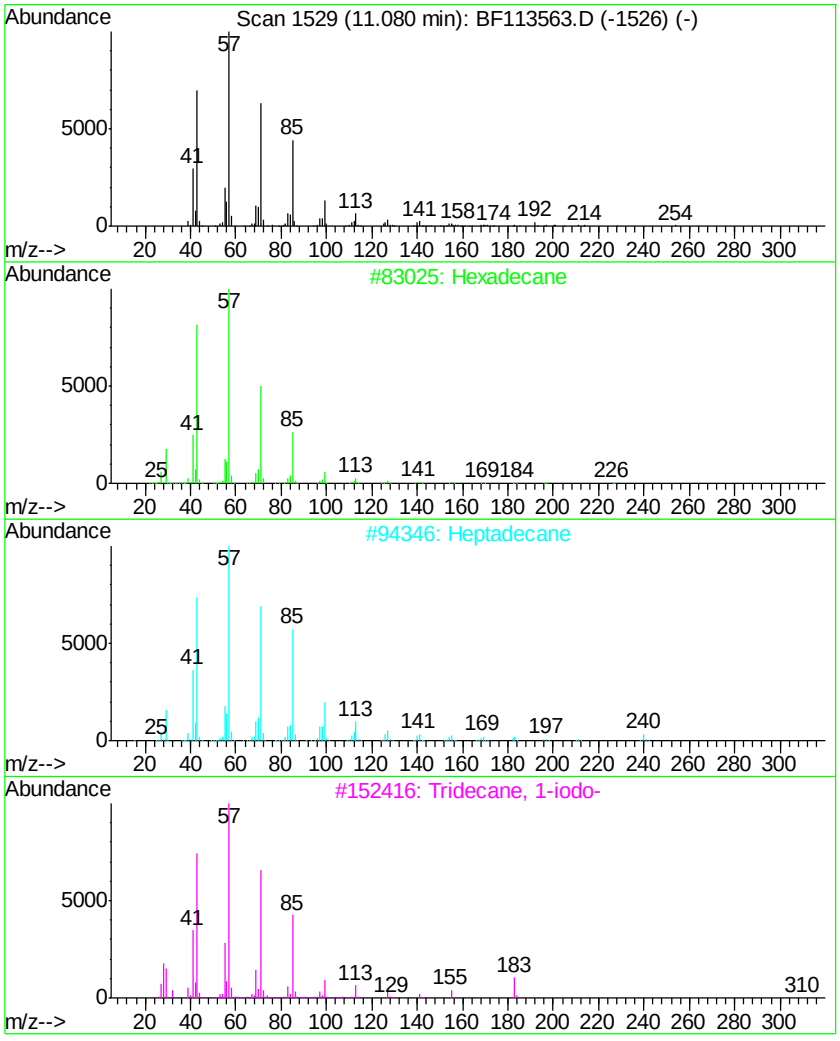
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

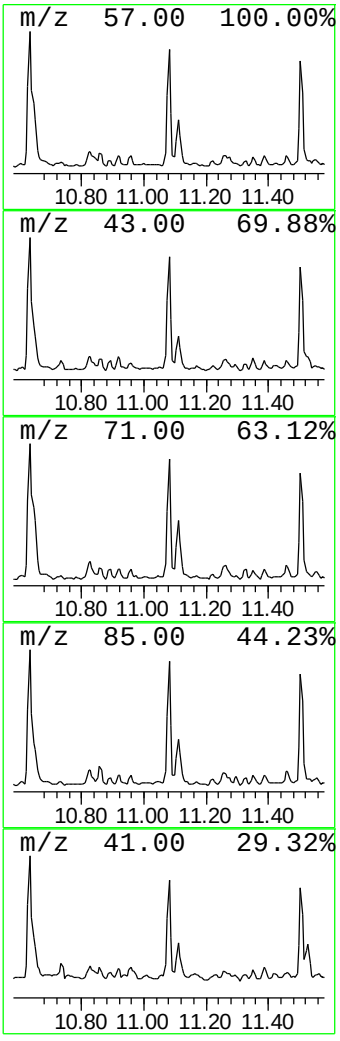
**********

Peak Number 7 Tridecane, 1-iodo- Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.08 | 8.94 ng | 361157 | Phenanthrene-d10 | 11.20 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexadecane | 226 | C16H34 | 000544-76-3 | 90 |
| 2 | Heptadecane | 240 | C17H36 | 000629-78-7 | 90 |
| 3 | Tridecane, 1-iodo- | 310 | C13H27I | 035599-77-0 | 87 |
| 4 | Eicosane, 10-methyl- | 296 | C21H44 | 054833-23-7 | 86 |
| 5 | Nonadecane | 268 | C19H40 | 000629-92-5 | 86 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF040319\
Data File : BF113563.D
Acq On : 4 Apr 2019 00:47
Operator : JU/SJ
Sample : K2196-01
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** HD-01-040119

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040319.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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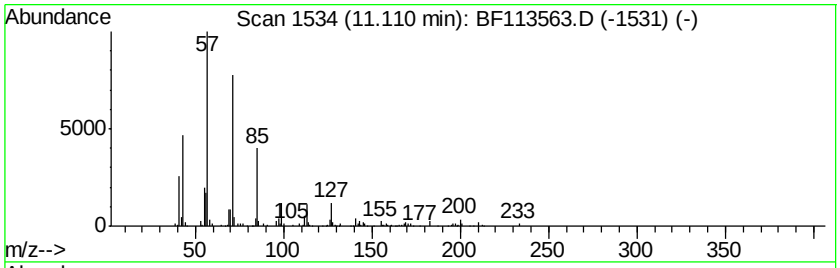
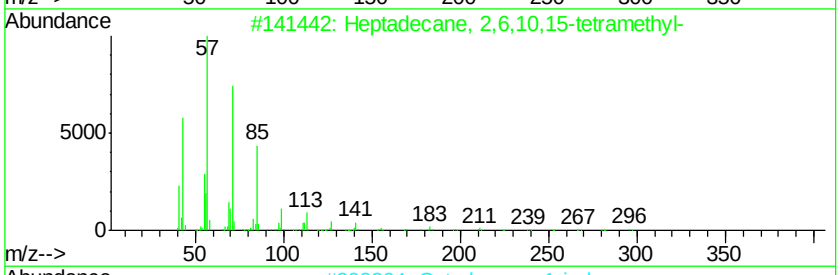
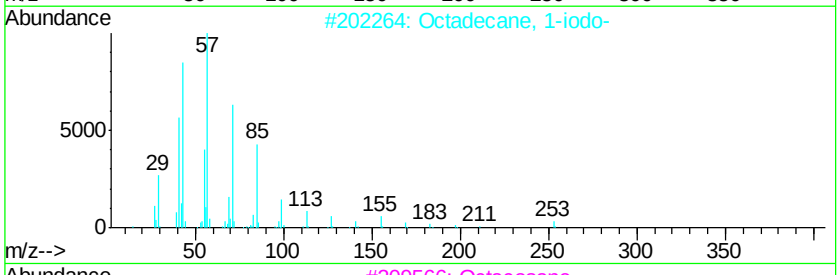
Peak Number 8 Heptadecane, 2,6,10,15-tetr... Concentration Rank 20

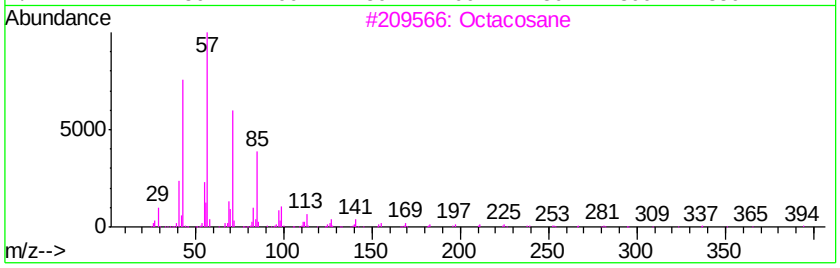
| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.11 | 5.22 ng | 210799 | Phenanthrene-d10 | 11.20 |

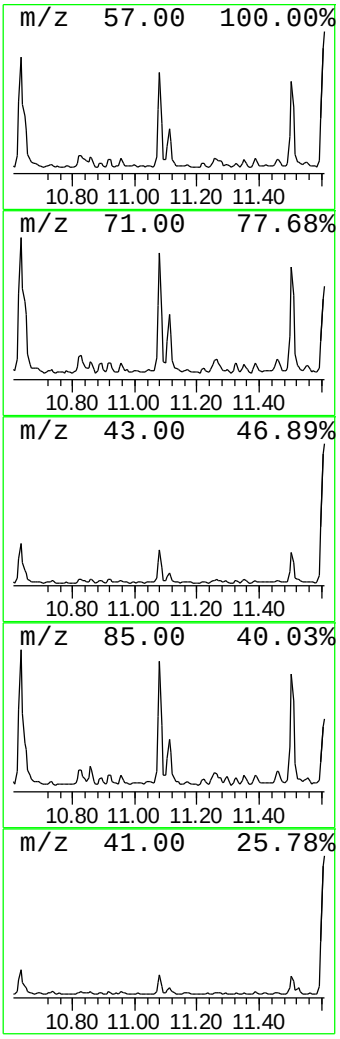
| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptadecane, 2,6,10,15-tetramethyl- | 296 | C21H44 | 054833-48-6 | 86 |
| 2 | Octadecane, 1-iodo- | 380 | C18H37I | 000629-93-6 | 86 |
| 3 | Octacosane | 394 | C28H58 | 000630-02-4 | 86 |
| 4 | Heptacosane | 380 | C27H56 | 000593-49-7 | 86 |
| 5 | Decane, 3,6-dimethyl- | 170 | C12H26 | 017312-53-7 | 83 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF040319\
Data File : BF113563.D
Acq On : 4 Apr 2019 00:47
Operator : JU/SJ
Sample : K2196-01
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** HD-01-040119

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

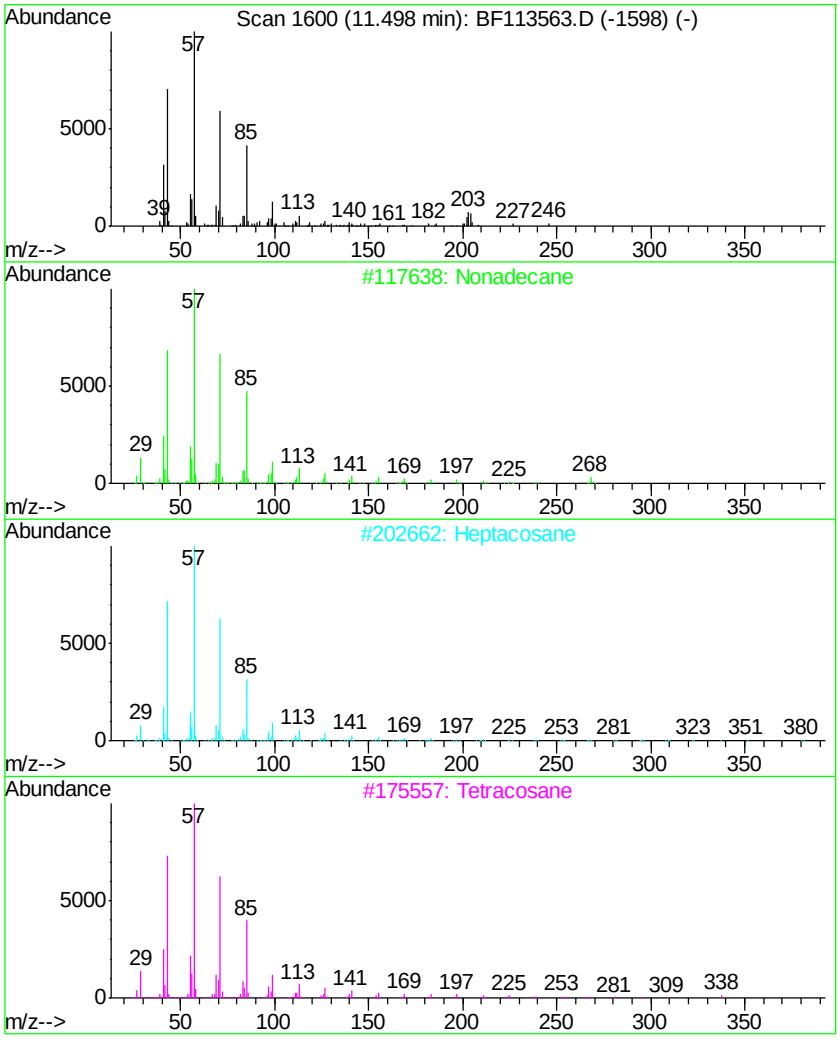
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

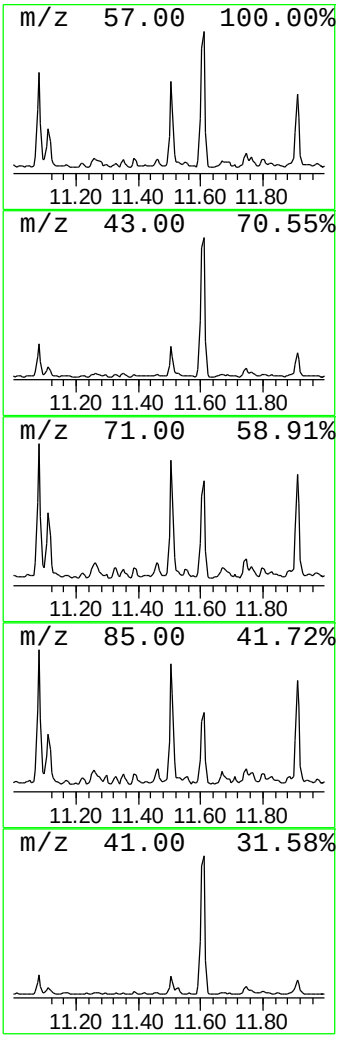
**********

Peak Number 9 Nonadecane Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.50 | 8.53 ng | 344725 | Phenanthrene-d10 | 11.20 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Nonadecane | 268 | C19H40 | 000629-92-5 | 96 |
| 2 | Heptacosane | 380 | C27H56 | 000593-49-7 | 91 |
| 3 | Tetracosane | 338 | C24H50 | 000646-31-1 | 91 |
| 4 | Pentadecane | 212 | C15H32 | 000629-62-9 | 90 |
| 5 | Hexadecane | 226 | C16H34 | 000544-76-3 | 90 |



# Library Search Compound Report

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Data File : BF113563.D
Acq On : 4 Apr 2019 00:47
Operator : JU/SJ
Sample : K2196-01
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** HD-01-040119

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

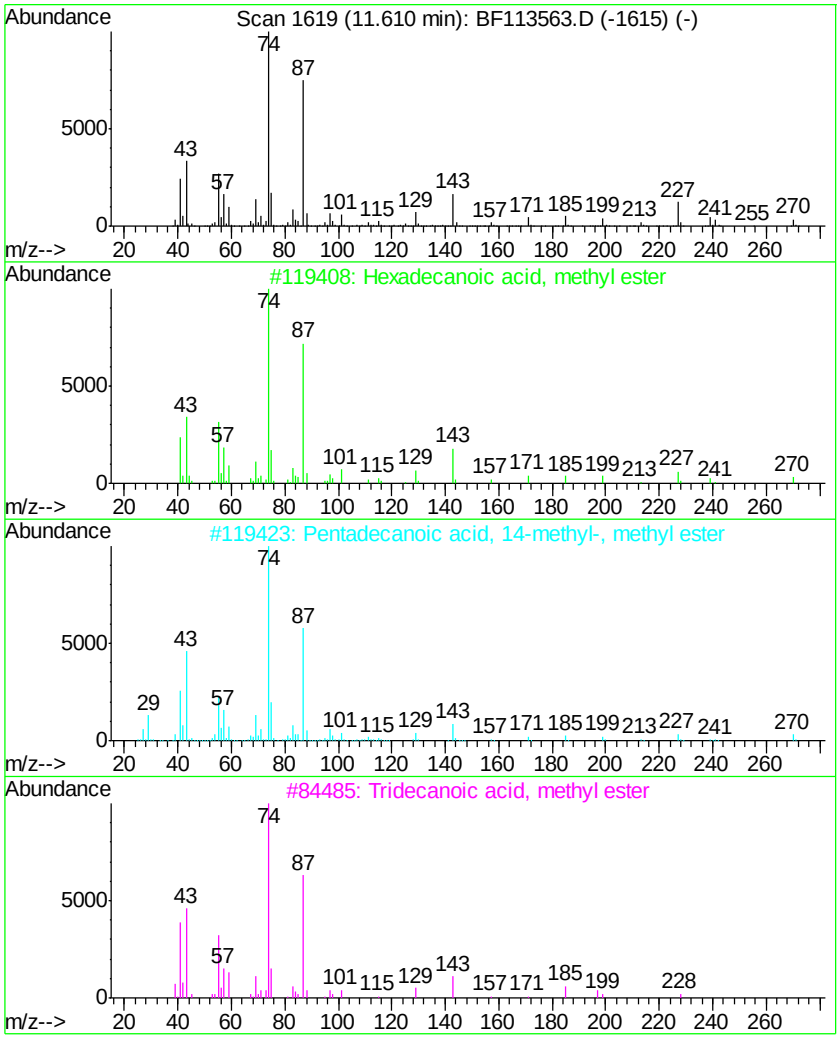
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

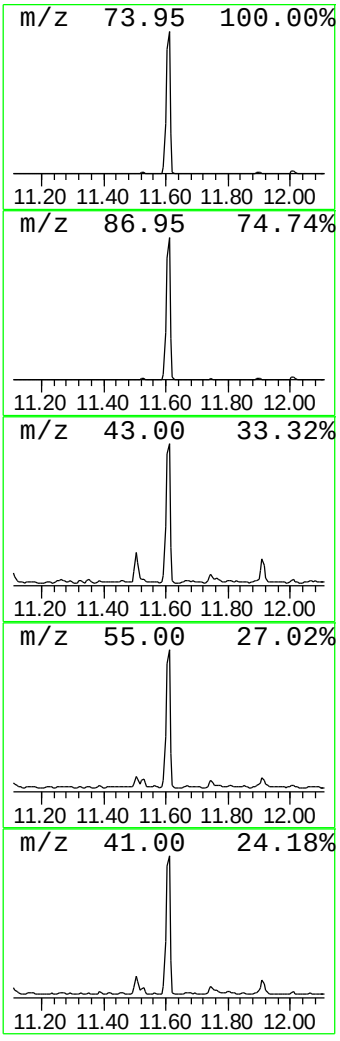
**********

Peak Number 10 Hexadecanoic acid, methyl e... Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.61 | 97.83 ng | 3952720 | Phenanthrene-d10 | 11.20 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexadecanoic acid, methyl ester | 270 | C17H34O2 | 000112-39-0 | 98 |
| 2 | Pentadecanoic acid, 14-methyl-, ... | 270 | C17H34O2 | 005129-60-2 | 92 |
| 3 | Tridecanoic acid, methyl ester | 228 | C14H28O2 | 001731-88-0 | 90 |
| 4 | Decanoic acid, methyl ester | 186 | C11H22O2 | 000110-42-9 | 87 |
| 5 | Pentadecanoic acid, methyl ester | 256 | C16H32O2 | 007132-64-1 | 86 |



# Library Search Compound Report

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Data File : BF113563.D
Acq On : 4 Apr 2019 00:47
Operator : JU/SJ
Sample : K2196-01
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** HD-01-040119

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

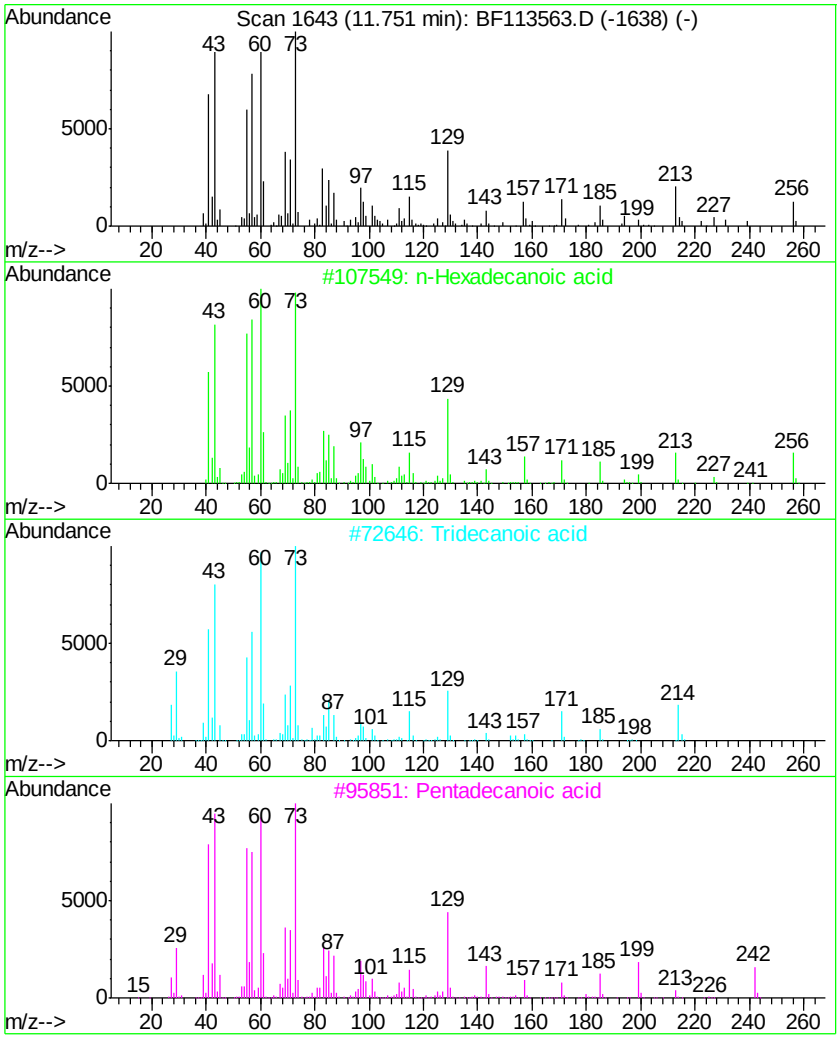
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

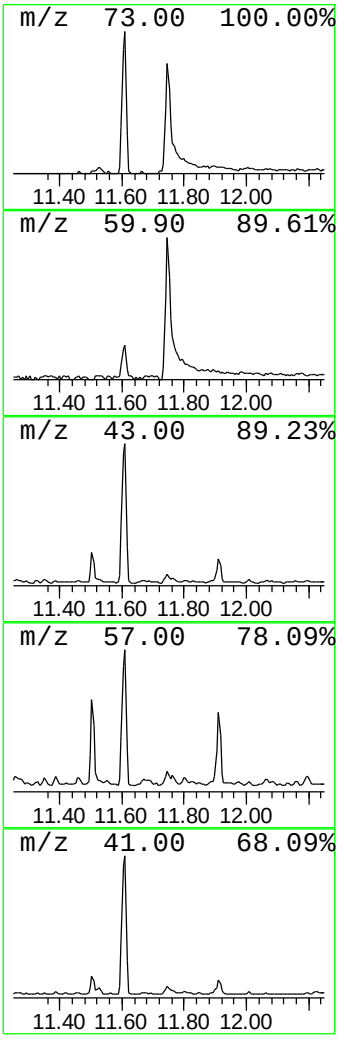
**********

Peak Number 11 n-Hexadecanoic acid Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.75 | 7.73 ng | 312536 | Phenanthrene-d10 | 11.20 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 98 |
| 2 | Tridecanoic acid | 214 | C13H26O2 | 000638-53-9 | 76 |
| 3 | Pentadecanoic acid | 242 | C15H30O2 | 001002-84-2 | 76 |
| 4 | n-Decanoic acid | 172 | C10H20O2 | 000334-48-5 | 60 |
| 5 | Undecanoic acid | 186 | C11H22O2 | 000112-37-8 | 58 |



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Data File : BF113563.D
Acq On : 4 Apr 2019 00:47
Operator : JU/SJ
Sample : K2196-01
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** HD-01-040119

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

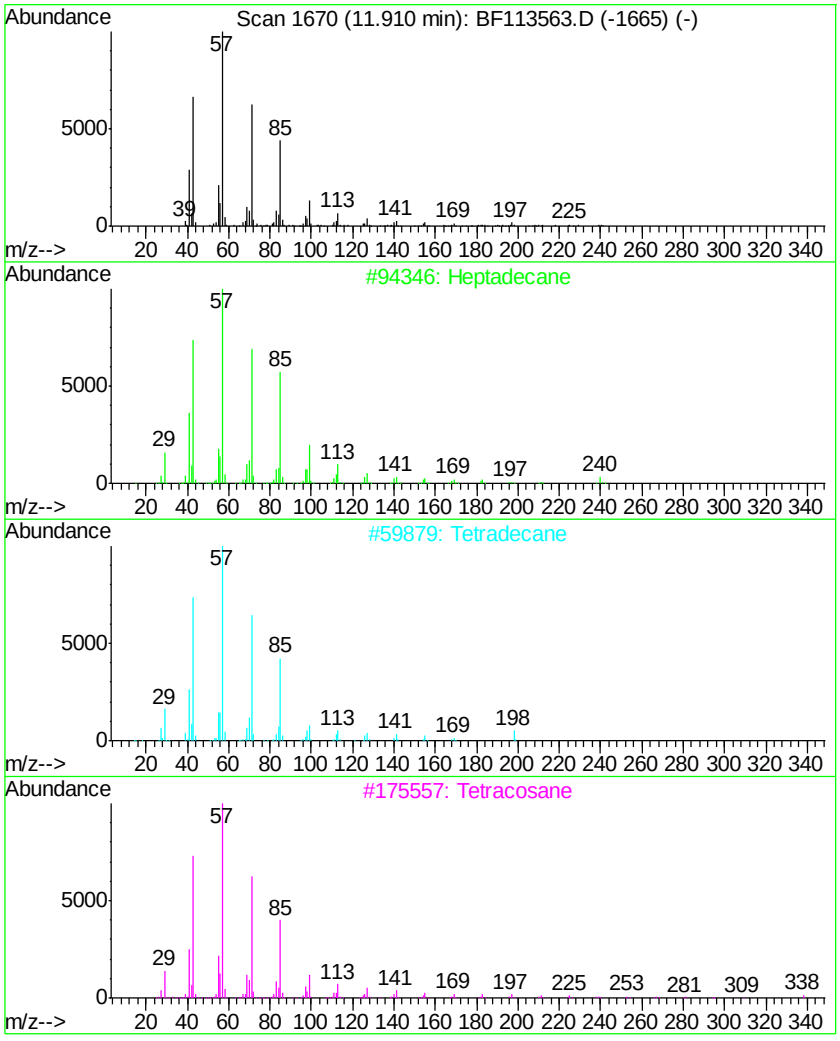
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

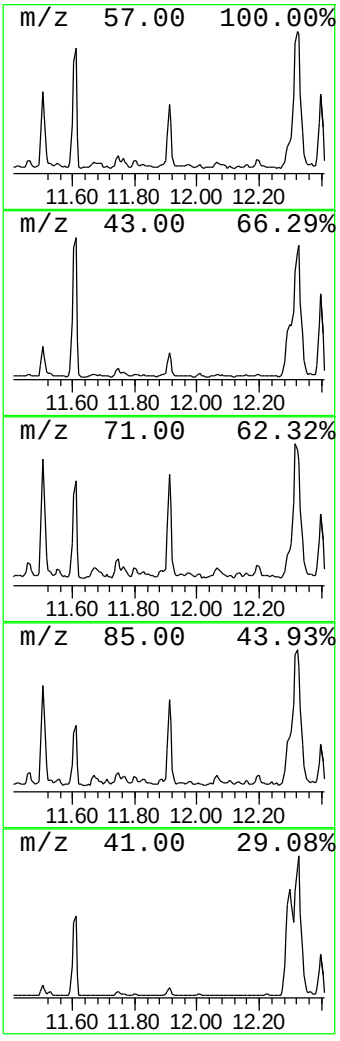
**********

Peak Number 12 Dodecane, 2-methyl- Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.91 | 9.88 ng | 399239 | Phenanthrene-d10 | 11.20 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptadecane | 240 | C17H36 | 000629-78-7 | 97 |
| 2 | Tetradecane | 198 | C14H30 | 000629-59-4 | 93 |
| 3 | Tetracosane | 338 | C24H50 | 000646-31-1 | 91 |
| 4 | Heptacosane | 380 | C27H56 | 000593-49-7 | 91 |
| 5 | Dodecane, 2-methyl- | 184 | C13H28 | 001560-97-0 | 90 |



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Data File : BF113563.D
Acq On : 4 Apr 2019 00:47
Operator : JU/SJ
Sample : K2196-01
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** HD-01-040119

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

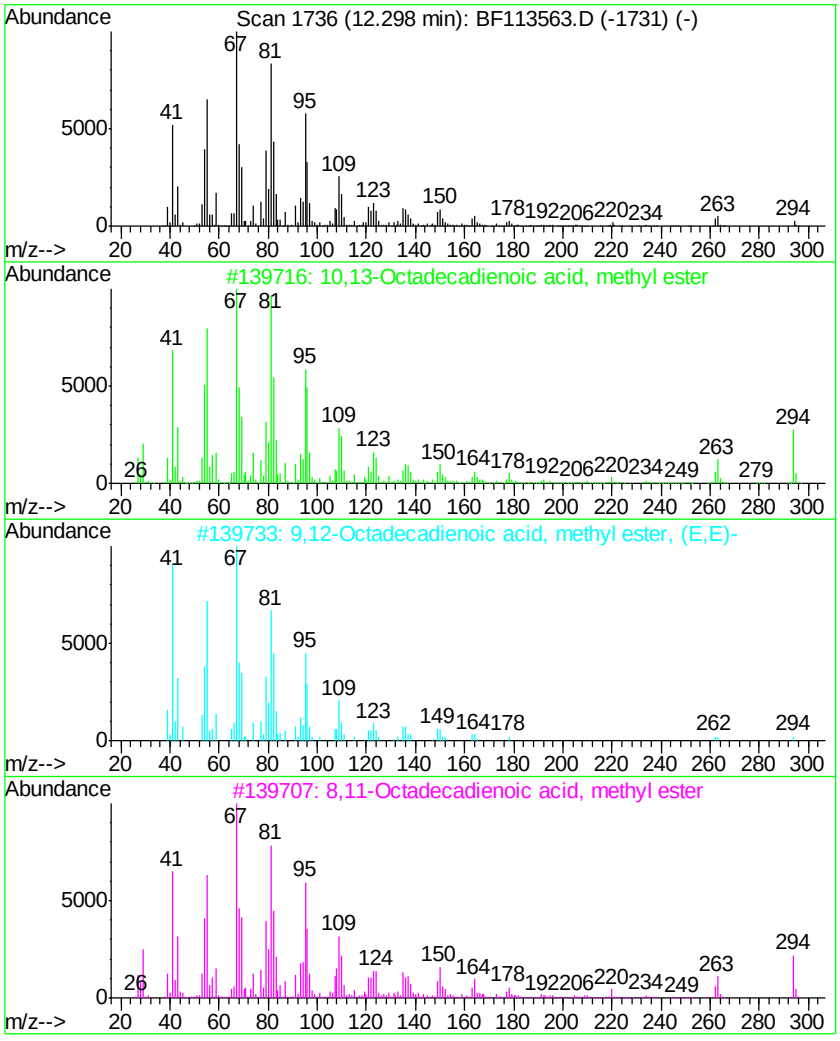
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

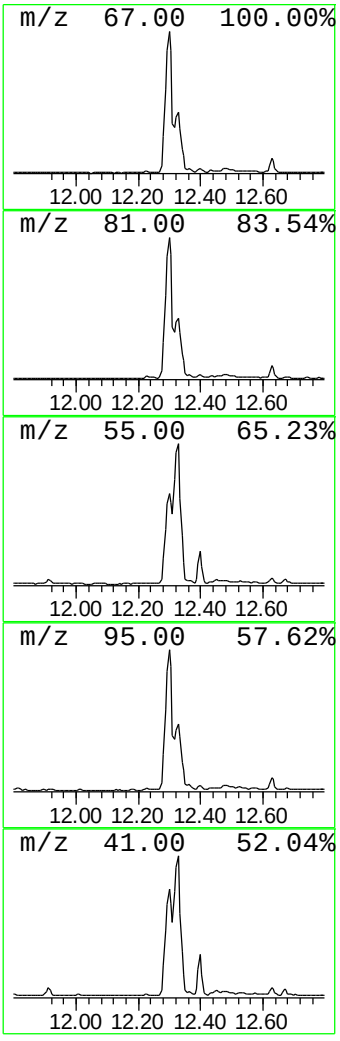
**********

Peak Number 13 10,13-Octadecadienoic acid,... Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.30 | 222.06 ng | 8972420 | Phenanthrene-d10 | 11.20 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 10,13-Octadecadienoic acid, meth... | 294 | C19H34O2 | 056554-62-2 | 99 |
| 2 | 9,12-Octadecadienoic acid, methy... | 294 | C19H34O2 | 002566-97-4 | 99 |
| 3 | 8,11-Octadecadienoic acid, methy... | 294 | C19H34O2 | 056599-58-7 | 99 |
| 4 | 9,15-Octadecadienoic acid, methy... | 294 | C19H34O2 | 017309-05-6 | 99 |
| 5 | 9,12-Octadecadienoic acid, methy... | 294 | C19H34O2 | 002462-85-3 | 99 |



# Library Search Compound Report

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Data File : BF113563.D
Acq On : 4 Apr 2019 00:47
Operator : JU/SJ
Sample : K2196-01
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** HD-01-040119

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

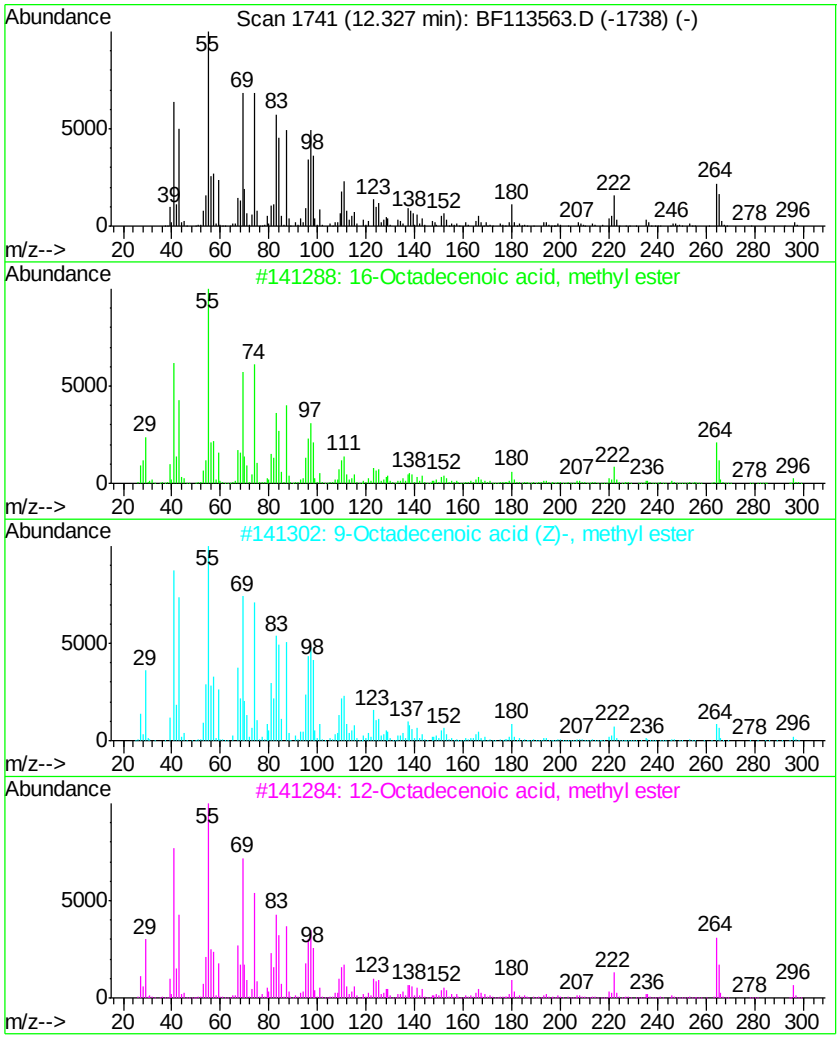
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

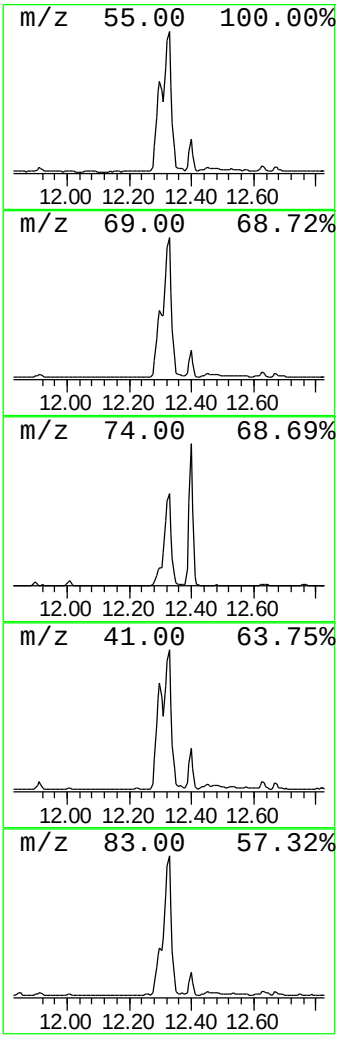
**********

Peak Number 14 16-Octadecenoic acid, methy... Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.33 | 241.46 ng | 9756580 | Phenanthrene-d10 | 11.20 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 16-Octadecenoic acid, methyl ester | 296 | C19H36O2 | 056554-49-5 | 96 |
| 2 | 9-Octadecenoic acid (Z)-, methyl... | 296 | C19H36O2 | 000112-62-9 | 95 |
| 3 | 12-Octadecenoic acid, methyl ester | 296 | C19H36O2 | 056554-46-2 | 94 |
| 4 | 14-Octadecenoic acid, methyl ester | 296 | C19H36O2 | 056554-48-4 | 94 |
| 5 | 15-Octadecenoic acid, methyl ester | 296 | C19H36O2 | 004764-72-1 | 94 |



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Acq On : 4 Apr 2019 00:47
Operator : JU/SJ
Sample : K2196-01
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** HD-01-040119

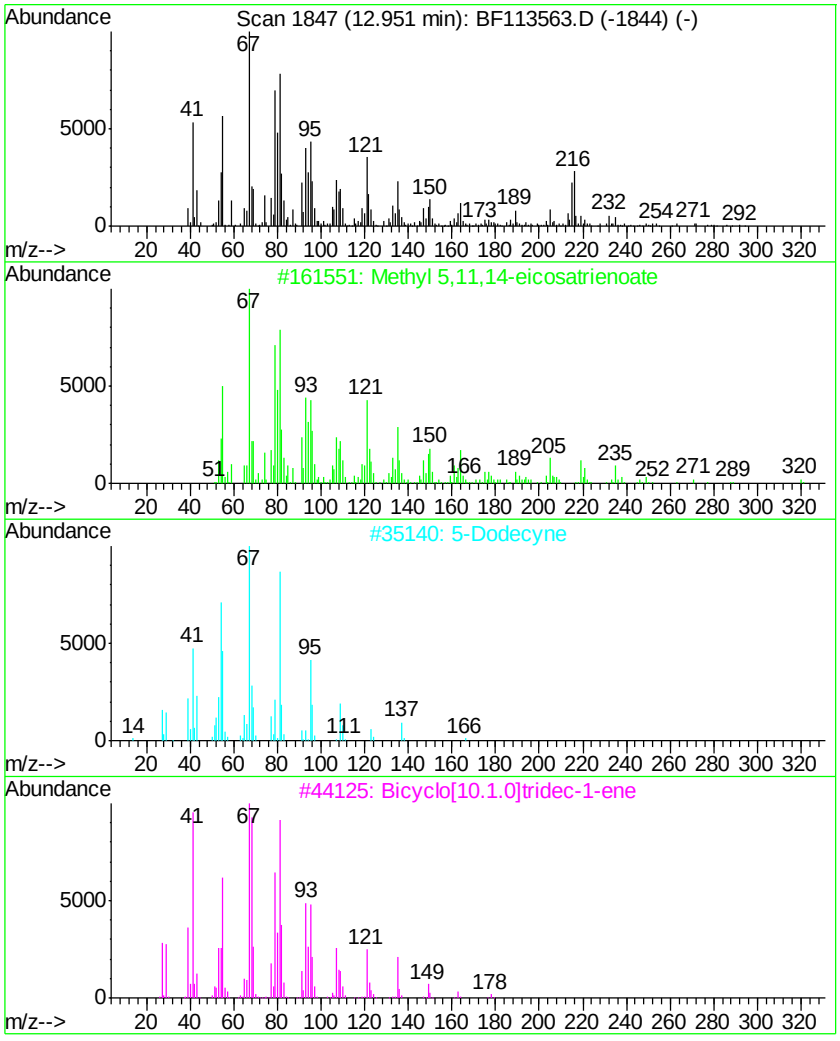
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

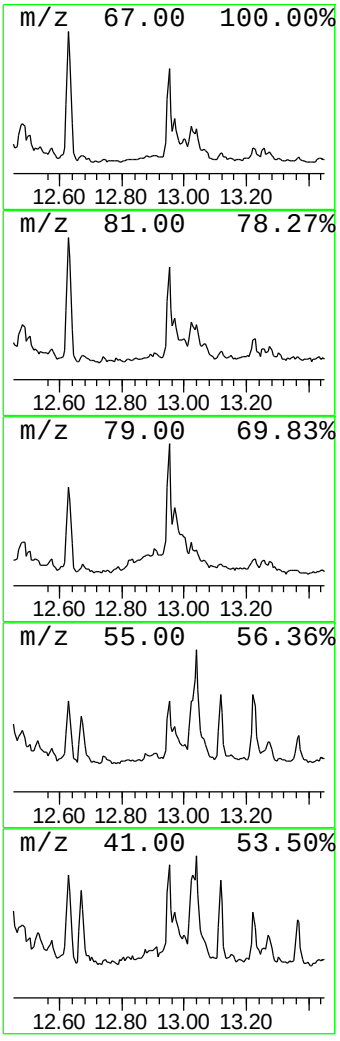
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 15 Methyl 5,11,14-eicosatrienoate Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.95 | 8.47 ng | 475096 | Chrysene-d12 | 13.84 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Methyl 5,11,14-eicosatrienoate | 320 | C21H36O2 | 1000336-40-2 | 91 |
| 2 | 5-Dodecyne | 166 | C12H22 | 019780-12-2 | 60 |
| 3 | Bicyclo[10.1.0]tridec-1-ene | 178 | C13H22 | 054766-91-5 | 60 |
| 4 | 1,5-Cyclododecadiene, (Z,Z)- | 164 | C12H20 | 031821-17-7 | 53 |
| 5 | 5-Undecyne | 152 | C11H20 | 002294-72-6 | 49 |



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Data File : BF113563.D
Acq On : 4 Apr 2019 00:47
Operator : JU/SJ
Sample : K2196-01
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** HD-01-040119

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040319.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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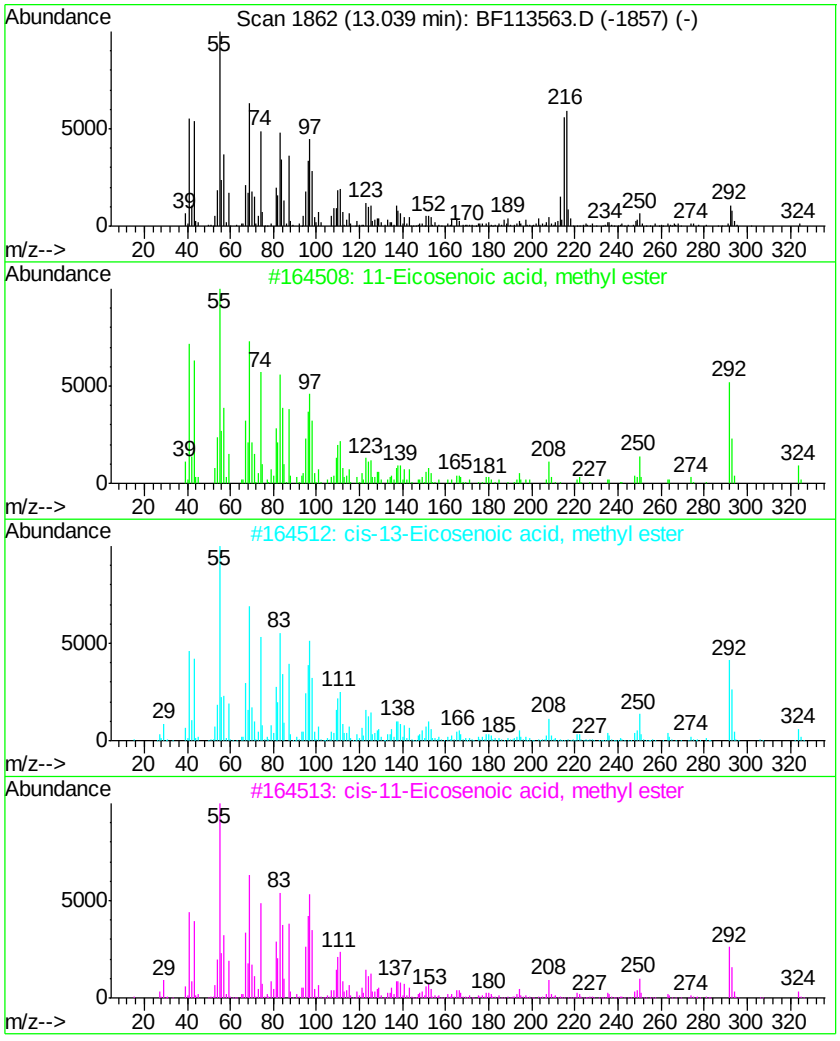
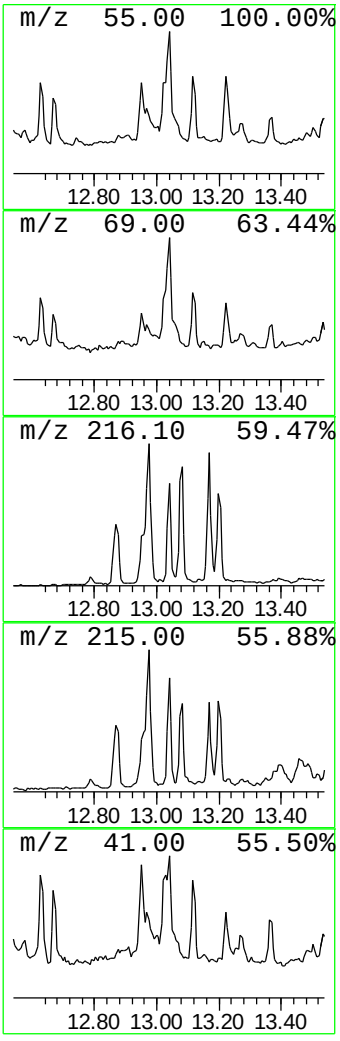
Peak Number 16 11-Eicosenoic acid, methyl ... Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.04 | 12.57 ng | 705461 | Chrysene-d12 | 13.84 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 11-Eicosenoic acid, methyl ester | 324 | C21H40O2 | 003946-08-5 | 99 |
| 2 | cis-13-Eicosenoic acid, methyl e... | 324 | C21H40O2 | 1000333-52-1 | 99 |
| 3 | cis-11-Eicosenoic acid, methyl e... | 324 | C21H40O2 | 1000333-63-8 | 98 |
| 4 | 9-Octadecenoic acid (Z)-, methyl... | 296 | C19H36O2 | 000112-62-9 | 83 |
| 5 | Methyl 9-eicosenoate | 324 | C21H40O2 | 1000336-50-5 | 70 |



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Data File : BF113563.D
Acq On : 4 Apr 2019 00:47
Operator : JU/SJ
Sample : K2196-01
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** HD-01-040119

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040319.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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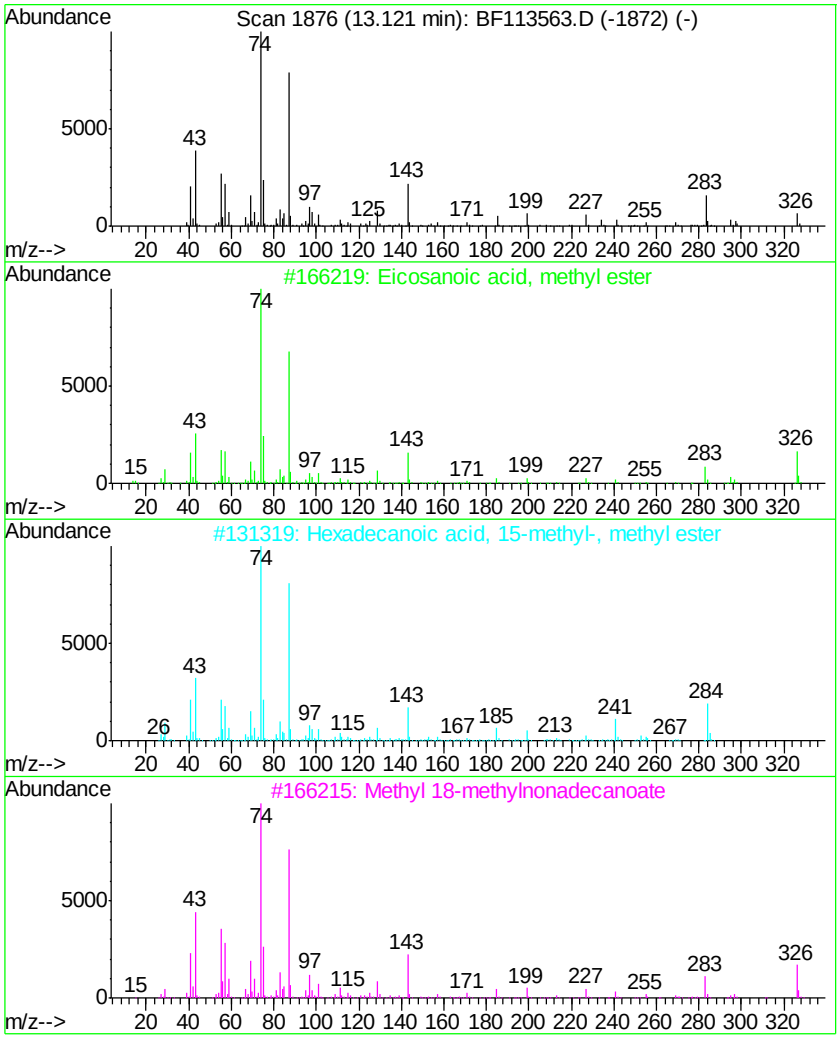
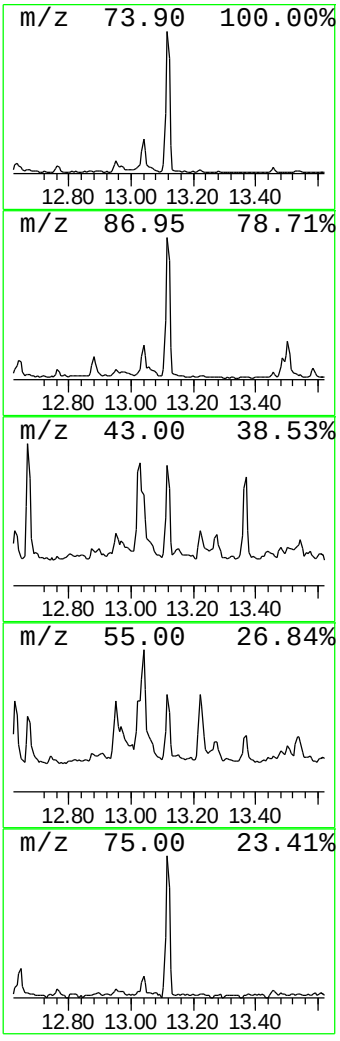
Peak Number 17 Eicosanoic acid, methyl ester Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.12 | 6.27 ng | 351515 | Chrysene-d12 | 13.84 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Eicosanoic acid, methyl ester | 326 | C21H42O2 | 001120-28-1 | 98 |
| 2 | Hexadecanoic acid, 15-methyl-, m... | 284 | C18H36O2 | 006929-04-0 | 95 |
| 3 | Methyl 18-methylnonadecanoate | 326 | C21H42O2 | 1000352-20-6 | 91 |
| 4 | Methyl stearate | 298 | C19H38O2 | 000112-61-8 | 90 |
| 5 | Nonadecanoic acid, methyl ester | 312 | C20H40O2 | 001731-94-8 | 90 |



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Data File : BF113563.D
Acq On : 4 Apr 2019 00:47
Operator : JU/SJ
Sample : K2196-01
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** HD-01-040119

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040319.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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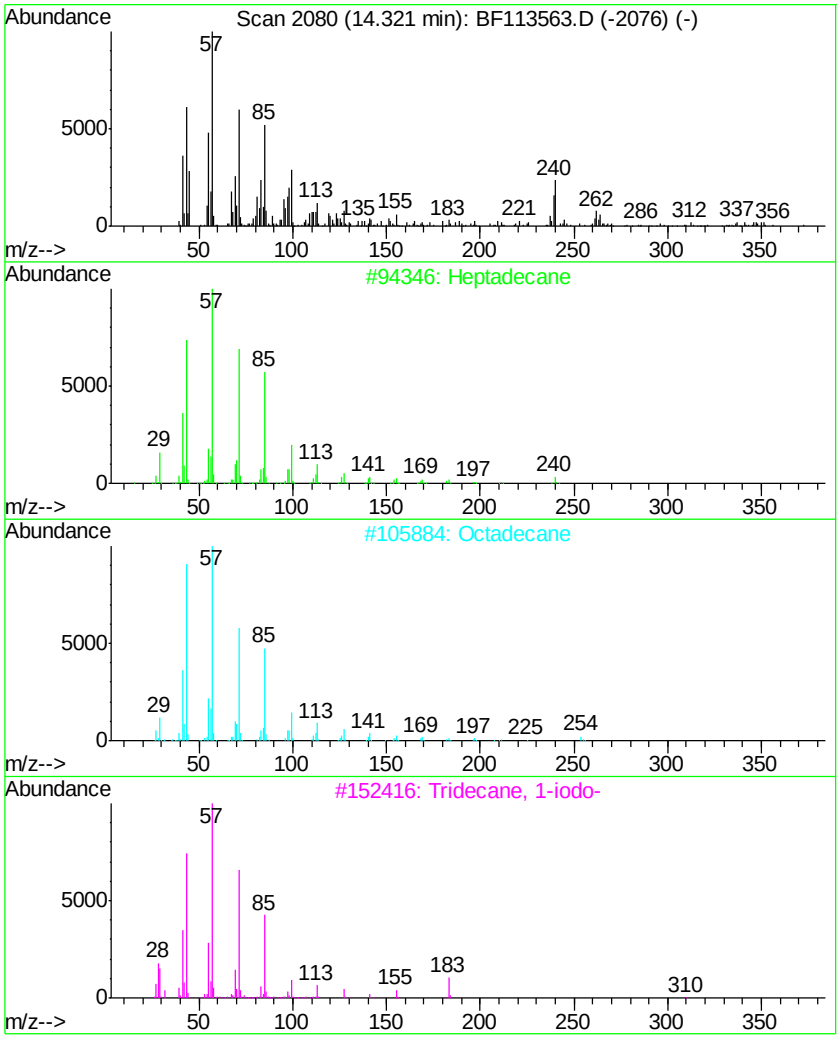
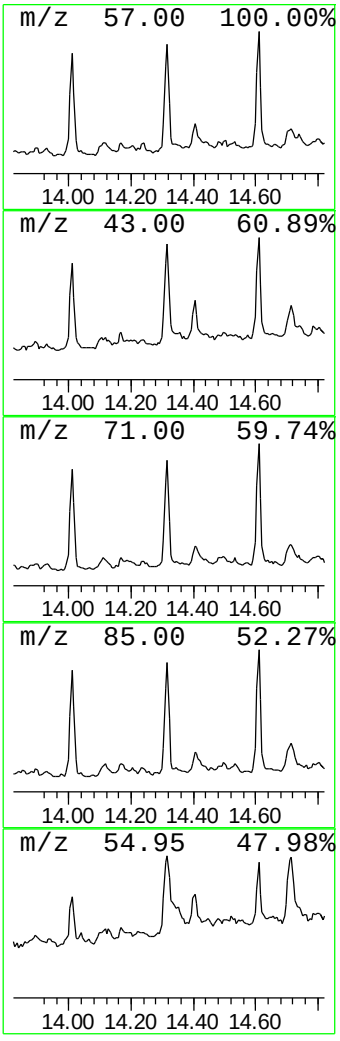
Peak Number 18 Triacontane Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.32 | 6.13 ng | 344184 | Chrysene-d12 | 13.84 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptadecane | 240 | C17H36 | 000629-78-7 | 98 |
| 2 | Octadecane | 254 | C18H38 | 000593-45-3 | 95 |
| 3 | Tridecane, 1-iodo- | 310 | C13H27I | 035599-77-0 | 89 |
| 4 | Hexacosane | 366 | C26H54 | 000630-01-3 | 87 |
| 5 | Triacontane | 422 | C30H62 | 000638-68-6 | 87 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF040319\
Data File : BF113563.D
Acq On : 4 Apr 2019 00:47
Operator : JU/SJ
Sample : K2196-01
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** HD-01-040119

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

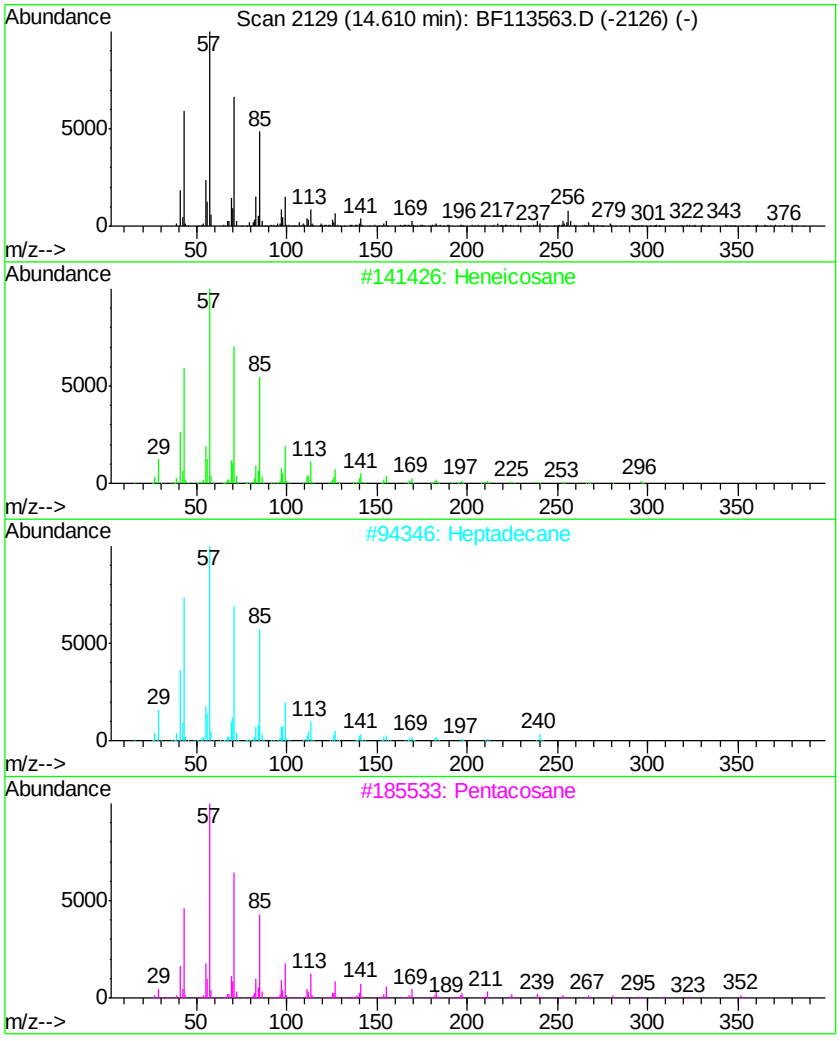
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

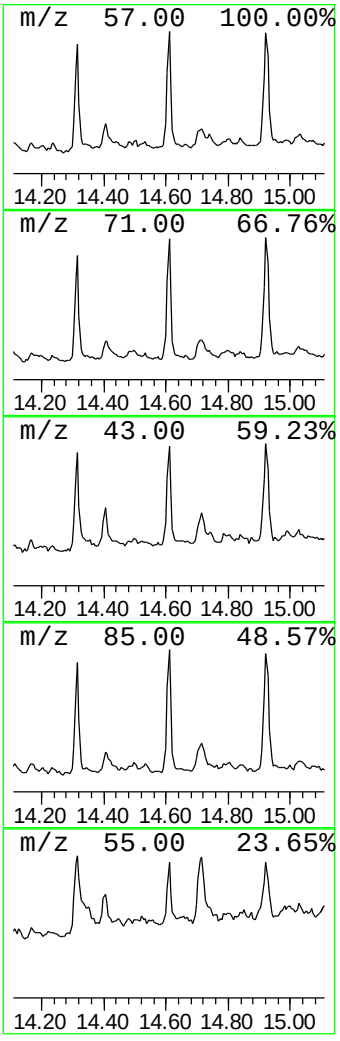
**********

Peak Number 19 Heneicosane Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.61 | 5.81 ng | 301714 | Perylene-d12 | 15.25 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heneicosane | 296 | C21H44 | 000629-94-7 | 95 |
| 2 | Heptadecane | 240 | C17H36 | 000629-78-7 | 95 |
| 3 | Pentacosane | 352 | C25H52 | 000629-99-2 | 90 |
| 4 | Tetracosane | 338 | C24H50 | 000646-31-1 | 87 |
| 5 | Nonadecane | 268 | C19H40 | 000629-92-5 | 87 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF040319\
Data File : BF113563.D
Acq On : 4 Apr 2019 00:47
Operator : JU/SJ
Sample : K2196-01
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** HD-01-040119

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

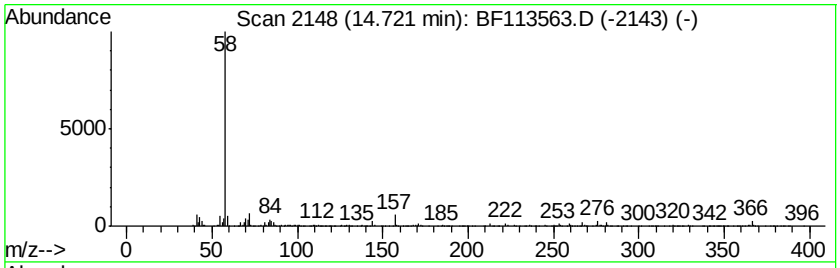
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

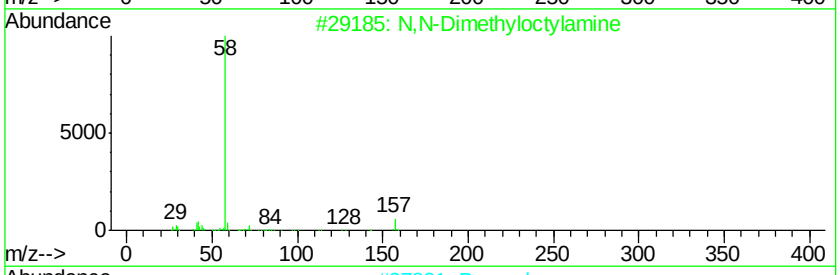
**********

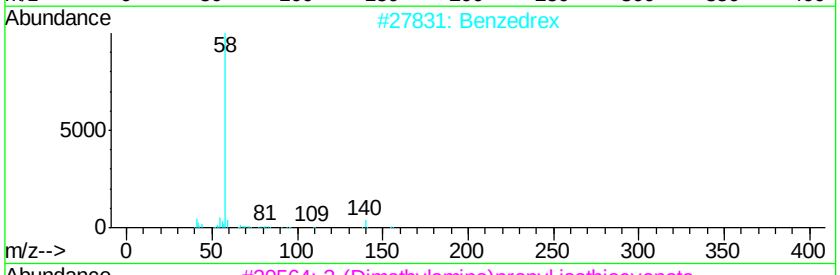
Peak Number 20 N,N-Dimethyloctylamine Concentration Rank 7

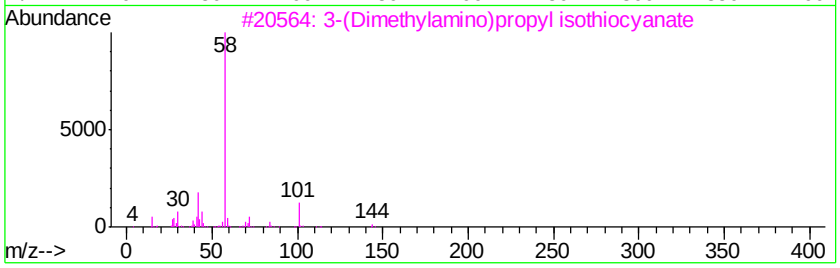
| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.72 | 13.07 ng | 679098 | Perylene-d12 | 15.25 |

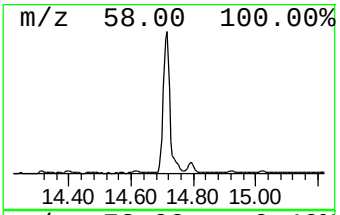
| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | N,N-Dimethyloctylamine | 157 | C10H23N | 007378-99-6 | 80 |
| 2 | Benzedrex | 155 | C10H21N | 000101-40-6 | 64 |
| 3 | 3-(Dimethylamino)propyl isothioc... | 144 | C6H12N2S | 027421-70-1 | 64 |
| 4 | N,N-Dimethyl-2-cyclohexyloxyethy... | 171 | C10H21NO | 071126-60-8 | 64 |
| 5 | 1-Hexanamine, 2-ethyl-N,N-dimethyl- | 157 | C10H23N | 028056-87-3 | 64 |

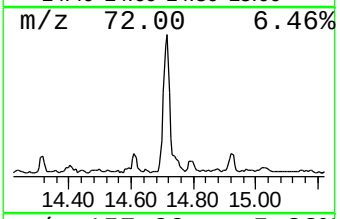


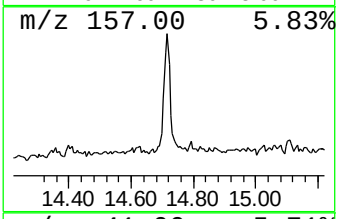



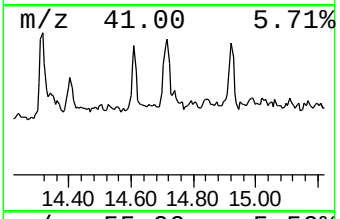



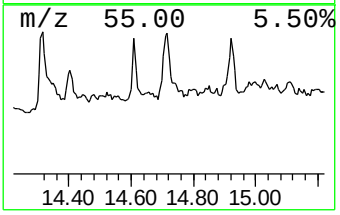



Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF040319\
Data File : BF113563.D
Acq On : 4 Apr 2019 00:47
Operator : JU/SJ
Sample : K2196-01
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** HD-01-040119

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040319.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 |
| unknown6.46 | 6.46 | 48.6 | ng | 1612970 | 1 | 6.69 | 663167 | 20.0 |
| Tetradecane | 9.13 | 6.7 | ng | 288936 | 3 | 9.72 | 866409 | 20.0 |
| Pentadecane | 9.66 | 7.8 | ng | 336145 | 3 | 9.72 | 866409 | 20.0 |
| Hexadecane | 10.16 | 9.4 | ng | 406553 | 3 | 9.72 | 866409 | 20.0 |
| Heptadecane | 10.63 | 15.4 | ng | 620312 | 4 | 11.20 | 808117 | 20.0 |
| Tridecane, 1-iodo- | 11.08 | 8.9 | ng | 361157 | 4 | 11.20 | 808117 | 20.0 |
| Heptadecane, 2,6,... | 11.11 | 5.2 | ng | 210799 | 4 | 11.20 | 808117 | 20.0 |
| Nonadecane | 11.50 | 8.5 | ng | 344725 | 4 | 11.20 | 808117 | 20.0 |
| Hexadecanoic acid... | 11.61 | 97.8 | ng | 3952720 | 4 | 11.20 | 808117 | 20.0 |
| n-Hexadecanoic acid | 11.75 | 7.7 | ng | 312536 | 4 | 11.20 | 808117 | 20.0 |
| Dodecane, 2-methyl- | 11.91 | 9.9 | ng | 399239 | 4 | 11.20 | 808117 | 20.0 |
| 10,13-Octadecadie... | 12.30 | 222.1 | ng | 8972420 | 4 | 11.20 | 808117 | 20.0 |
| 16-Octadecenoic a... | 12.33 | 241.5 | ng | 9756580 | 4 | 11.20 | 808117 | 20.0 |
| Methyl 5,11,14-ei... | 12.95 | 8.5 | ng | 475096 | 5 | 13.84 | 1122080 | 20.0 |
| 11-Eicosenoic aci... | 13.04 | 12.6 | ng | 705461 | 5 | 13.84 | 1122080 | 20.0 |
| Eicosanoic acid, ... | 13.12 | 6.3 | ng | 351515 | 5 | 13.84 | 1122080 | 20.0 |
| Triacontane | 14.32 | 6.1 | ng | 344184 | 5 | 13.84 | 1122080 | 20.0 |
| Heneicosane | 14.61 | 5.8 | ng | 301714 | 6 | 15.25 | 1039220 | 20.0 |
| N,N-Dimethyloctyl... | 14.72 | 13.1 | ng | 679098 | 6 | 15.25 | 1039220 | 20.0 |