LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073119\
Data File : BF115892.D
Acq On : 1 Aug 2019 2:58
Operator : HP/JU
Sample : K3621-07 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** OK-01-072919

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-BF073019.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 | 3.904 | 301 | 309 | 321 | rBV | 241481 | 343936 | 5.24% | 1.032% |
| 2 | 5.475 | 572 | 576 | 588 | rBV | 397340 | 466011 | 7.10% | 1.399% |
| 3 | 6.481 | 744 | 747 | 768 | rBV | 477426 | 573513 | 8.74% | 1.722% |
| 4 | 6.622 | 768 | 771 | 784 | rVB | 613059 | 545532 | 8.32% | 1.638% |
| 5 | 6.851 | 807 | 810 | 818 | rBV | 769230 | 677027 | 10.32% | 2.032% |
| 6 | 7.010 | 833 | 837 | 845 | rBV | 505111 | 433545 | 6.61% | 1.301% |
| 7 | 7.410 | 902 | 905 | 916 | rBV | 283062 | 287892 | 4.39% | 0.864% |
| 8 | 8.134 | 1023 | 1028 | 1034 | rBV | 958256 | 869790 | 13.26% | 2.611% |
| 9 | 8.734 | 1126 | 1130 | 1133 | rBV3 | 88068 | 82672 | 1.26% | 0.248% |
| 10 | 9.210 | 1208 | 1211 | 1217 | rBV | 716811 | 604479 | 9.21% | 1.815% |
| 11 | 9.298 | 1222 | 1226 | 1230 | rBV | 154701 | 143311 | 2.18% | 0.430% |
| 12 | 9.475 | 1253 | 1256 | 1263 | rVB4 | 102304 | 110622 | 1.69% | 0.332% |
| 13 | 9.604 | 1276 | 1278 | 1282 | rBV2 | 157109 | 183995 | 2.80% | 0.552% |
| 14 | 9.828 | 1308 | 1316 | 1320 | rBV | 237478 | 215946 | 3.29% | 0.648% |
| 15 | 9.892 | 1324 | 1327 | 1331 | rVB | 899737 | 837631 | 12.77% | 2.515% |
| 16 | 10.151 | 1367 | 1371 | 1375 | rBV5 | 60712 | 86226 | 1.31% | 0.259% |
| 17 | 10.328 | 1395 | 1401 | 1404 | rBV | 306810 | 263492 | 4.02% | 0.791% |
| 18 | 10.545 | 1433 | 1438 | 1444 | rBV | 93905 | 155540 | 2.37% | 0.467% |
| 19 | 10.686 | 1456 | 1462 | 1465 | rBV2 | 296827 | 326659 | 4.98% | 0.981% |
| 20 | 10.798 | 1478 | 1481 | 1490 | rVB | 308525 | 329299 | 5.02% | 0.989% |
| 21 | 11.245 | 1554 | 1557 | 1560 | rBV | 270593 | 228688 | 3.49% | 0.687% |
| 22 | 11.280 | 1560 | 1563 | 1569 | rVB | 109968 | 126036 | 1.92% | 0.378% |
| 23 | 11.380 | 1577 | 1580 | 1583 | rBV | 971083 | 838040 | 12.77% | 2.516% |
| 24 | 11.675 | 1627 | 1630 | 1632 | rBV | 243896 | 191707 | 2.92% | 0.576% |
| 25 | 11.775 | 1643 | 1647 | 1650 | rBV | 3516161 | 2855440 | 43.53% | 8.572% |
| 26 | 11.910 | 1667 | 1670 | 1678 | rBV | 369883 | 393771 | 6.00% | 1.182% |
| 27 | 12.080 | 1696 | 1699 | 1704 | rBV | 226496 | 199039 | 3.03% | 0.598% |
| 28 | 12.469 | 1760 | 1765 | 1766 | rBV | 5568918 | 6514993 | 99.31% | 19.558% |
| 29 | 12.492 | 1766 | 1769 | 1774 | rVV | 5990590 | 6560070 | 100.00% | 19.693% |
| 30 | 12.569 | 1778 | 1782 | 1785 | rBV | 1710400 | 1495428 | 22.80% | 4.489% |
| 31 | 12.604 | 1785 | 1788 | 1789 | rBV2 | 324698 | 324866 | 4.95% | 0.975% |
| 32 | 12.622 | 1789 | 1791 | 1802 | rVV | 623881 | 885585 | 13.50% | 2.659% |
| 33 | 12.698 | 1802 | 1804 | 1808 | rVB4 | 78175 | 87428 | 1.33% | 0.262% |
| 34 | 12.798 | 1819 | 1821 | 1824 | rBV3 | 133582 | 126561 | 1.93% | 0.380% |

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073119\
Data File : BF115892.D
Acq On : 1 Aug 2019 2:58
Operator : HP/JU
Sample : K3621-07 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** OK-01-072919

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-BF073019.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 12.839 | 1824 | 1828 | 1834 | rVB2 | 157658 | 229185 | 3.49% | 0.688% |
| 36 | 12.969 | 1846 | 1850 | 1853 | rBV | 701155 | 686816 | 10.47% | 2.062% |
| 37 | 13.004 | 1853 | 1856 | 1859 | rVV | 140745 | 120738 | 1.84% | 0.362% |
| 38 | 13.045 | 1861 | 1863 | 1866 | rVB | 89235 | 93337 | 1.42% | 0.280% |
| 39 | 13.151 | 1875 | 1881 | 1886 | rBV3 | 284905 | 542705 | 8.27% | 1.629% |
| 40 | 13.210 | 1886 | 1891 | 1897 | rVB2 | 188409 | 375653 | 5.73% | 1.128% |
| 41 | 13.292 | 1902 | 1905 | 1908 | rVB | 205653 | 184879 | 2.82% | 0.555% |
| 42 | 13.398 | 1920 | 1923 | 1924 | rBV2 | 104775 | 82958 | 1.26% | 0.249% |
| 43 | 13.451 | 1929 | 1932 | 1935 | rVB2 | 109109 | 106122 | 1.62% | 0.319% |
| 44 | 13.539 | 1944 | 1947 | 1950 | rBV | 104045 | 89761 | 1.37% | 0.269% |
| 45 | 13.716 | 1973 | 1977 | 1981 | rBV2 | 174718 | 249326 | 3.80% | 0.748% |
| 46 | 13.957 | 2015 | 2018 | 2022 | rBV | 230175 | 225828 | 3.44% | 0.678% |
| 47 | 14.027 | 2026 | 2030 | 2033 | rBV | 942520 | 883199 | 13.46% | 2.651% |
| 48 | 14.916 | 2178 | 2181 | 2188 | rVB | 294023 | 385076 | 5.87% | 1.156% |
| 49 | 15.498 | 2277 | 2280 | 2289 | rVB | 465757 | 690919 | 10.53% | 2.074% |

Sum of corrected areas: 33311272

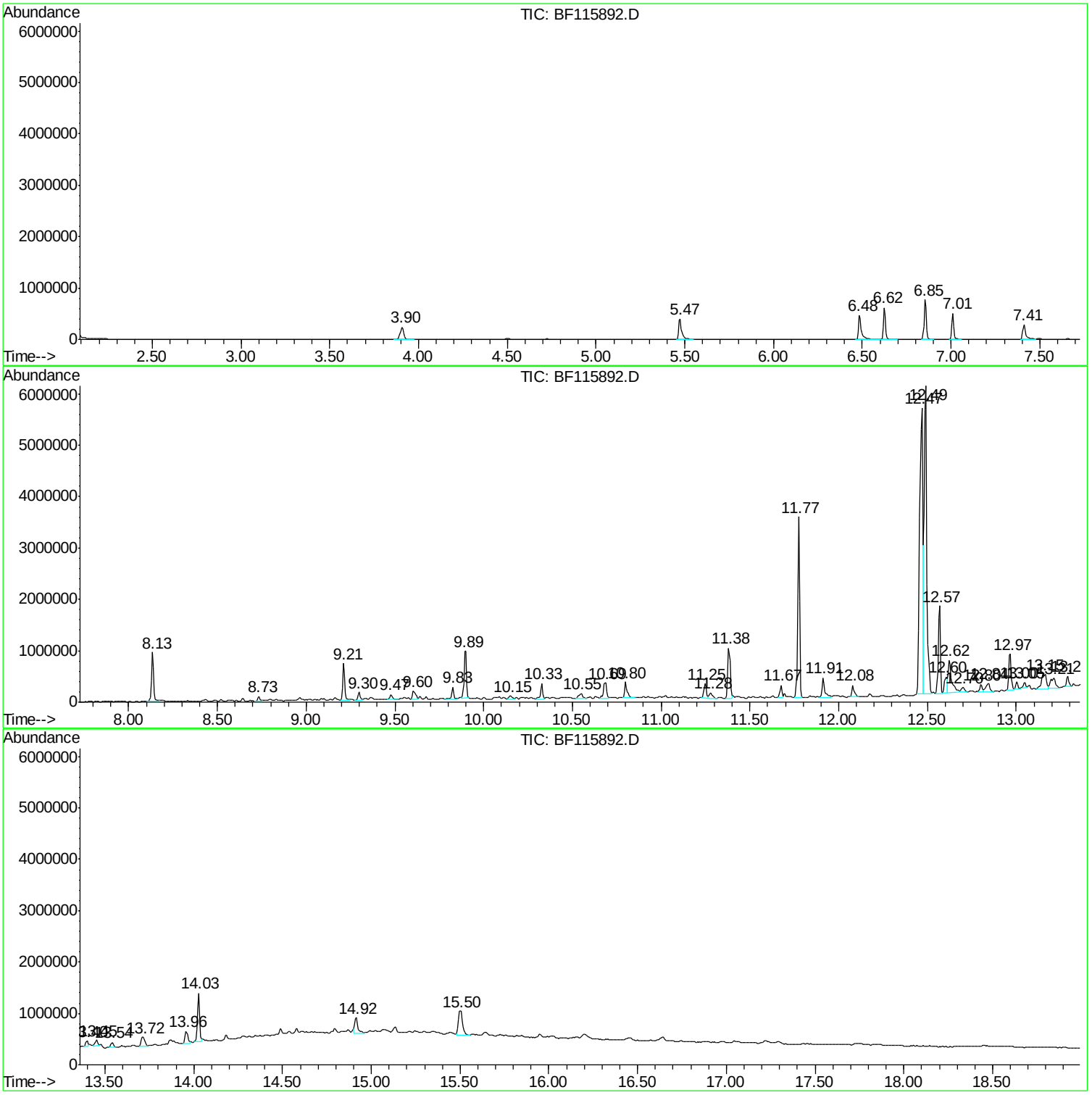
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073119\
Data File : BF115892.D
Acq On : 1 Aug 2019 2:58
Operator : HP/JU
Sample : K3621-07 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
OK-01-072919

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.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\BF073119\
Data File : BF115892.D
Acq On : 1 Aug 2019 2:58
Operator : HP/JU
Sample : K3621-07 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** OK-01-072919

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

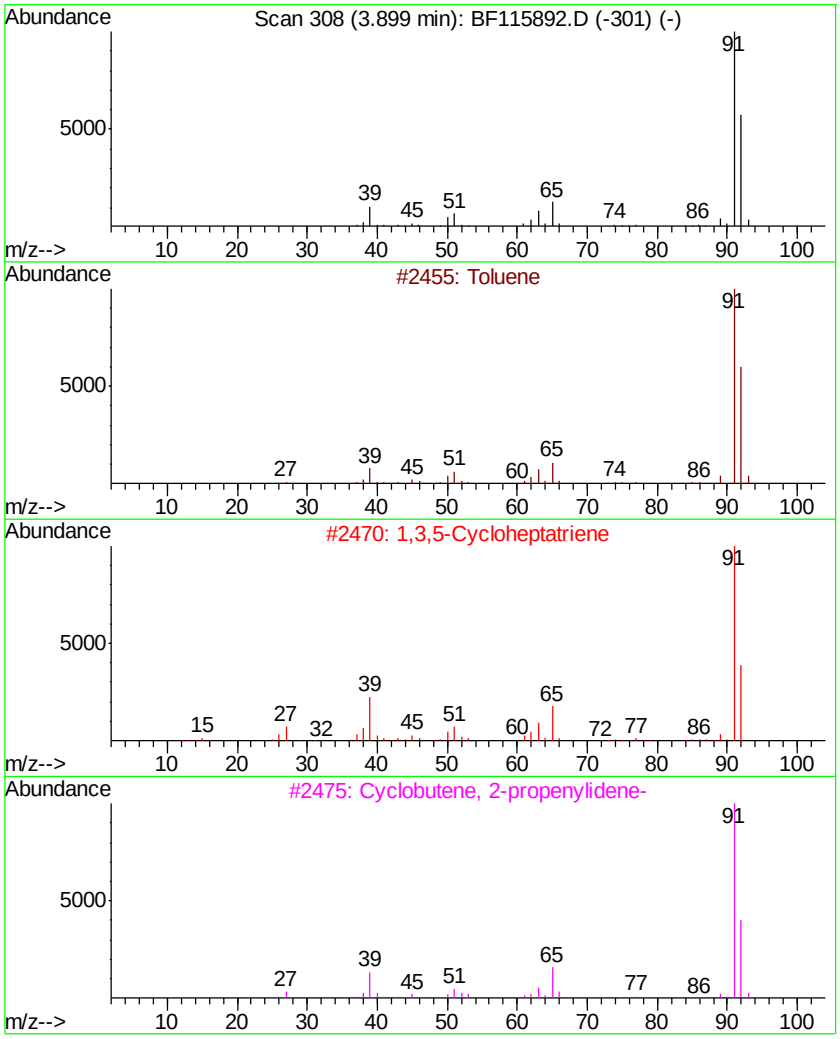
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

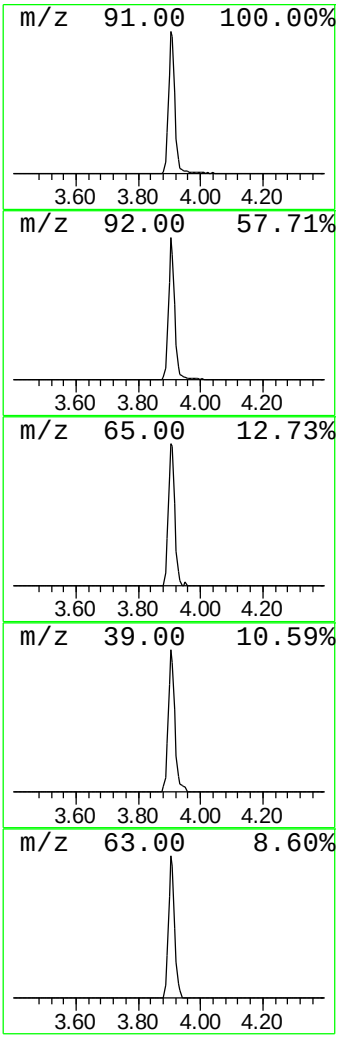
**********

Peak Number 1 1,3,5-Cycloheptatriene Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 3.90 | 10.16 ng | 343936 | 1,4-Dichlorobenzene-d4 | 6.85 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Toluene | 92 | C7H8 | 000108-88-3 | 95 |
| 2 | 1,3,5-Cycloheptatriene | 92 | C7H8 | 000544-25-2 | 90 |
| 3 | Cyclobutene, 2-propenylidene- | 92 | C7H8 | 052097-85-5 | 72 |
| 4 | 2,5-Norbornadiene | 92 | C7H8 | 000121-46-0 | 64 |
| 5 | Molybdenum, di-.mu.-chlorobis[(1... | 532 | C20H26Cl2Mo2 | 035625-66-2 | 56 |



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073119\
Data File : BF115892.D
Acq On : 1 Aug 2019 2:58
Operator : HP/JU
Sample : K3621-07 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** OK-01-072919

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

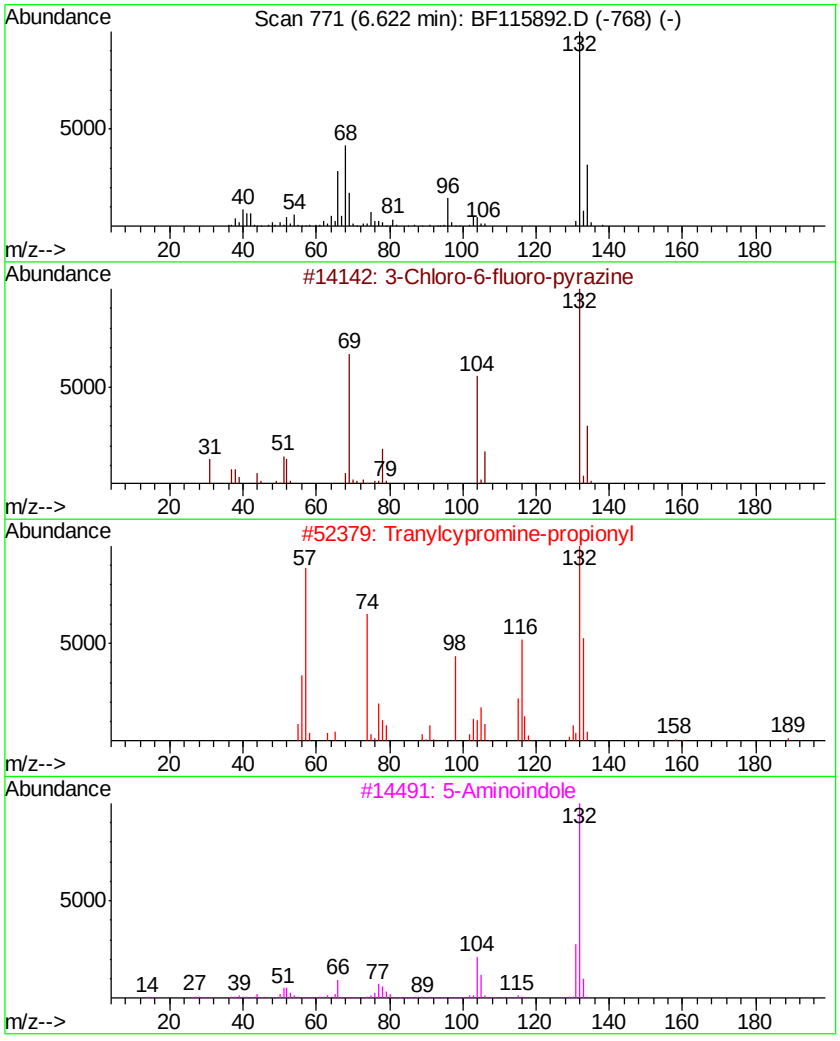
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

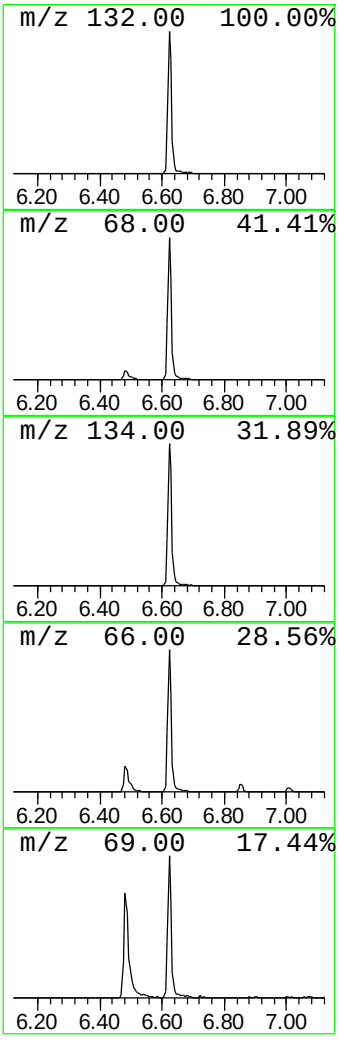
**********

Peak Number 2 unknown6.62 Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.62 | 16.12 ng | 545532 | 1,4-Dichlorobenzene-d4 | 6.85 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Chloro-6-fluoro-pyrazine | 132 | C4H2ClFN2 | 1000146-10-7 | 35 |
| 2 | Tranylcypromine-propionyl | 189 | C12H15NO | 1000123-86-3 | 10 |
| 3 | 5-Aminoindole | 132 | C8H8N2 | 005192-03-0 | 10 |
| 4 | Bicyclo[4.2.0]octa-1,3,5-triene,... | 132 | C10H12 | 028749-81-7 | 9 |
| 5 | Benzene, 1-ethenyl-3,5-dimethyl- | 132 | C10H12 | 005379-20-4 | 9 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073119\
Data File : BF115892.D
Acq On : 1 Aug 2019 2:58
Operator : HP/JU
Sample : K3621-07 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** OK-01-072919

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

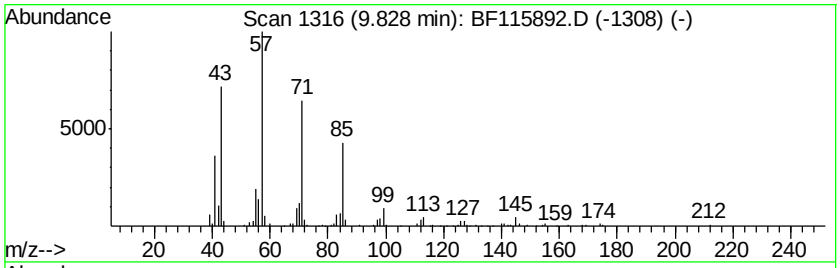
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

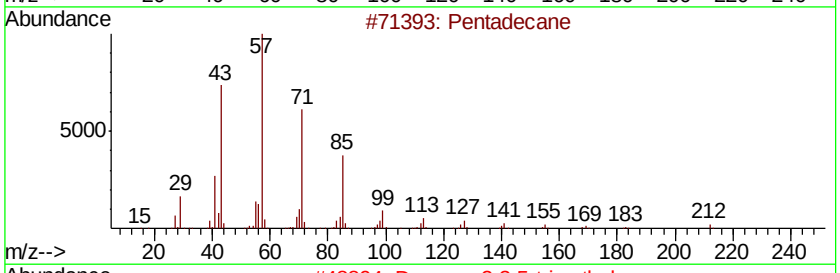
**********

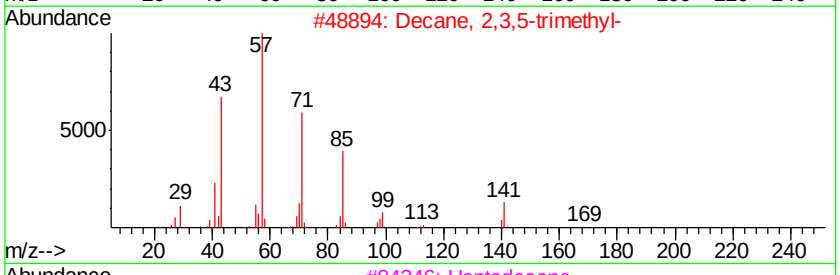
Peak Number 4 Pentadecane Concentration Rank 19

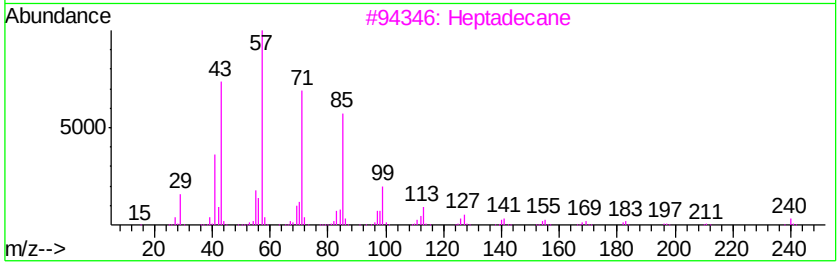
| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.83 | 5.16 ng | 215946 | Acenaphthene-d10 | 9.90 |

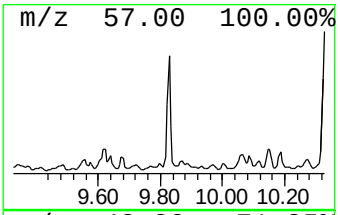
| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentadecane | 212 | C15H32 | 000629-62-9 | 90 |
| 2 | Decane, 2,3,5-trimethyl- | 184 | C13H28 | 062238-11-3 | 86 |
| 3 | Heptadecane | 240 | C17H36 | 000629-78-7 | 83 |
| 4 | Tetradecane | 198 | C14H30 | 000629-59-4 | 80 |
| 5 | Hexadecane | 226 | C16H34 | 000544-76-3 | 78 |

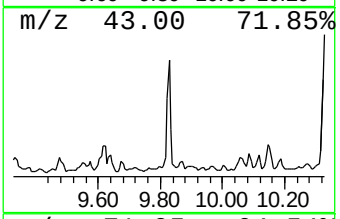


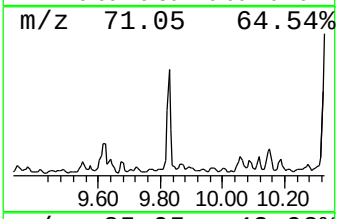



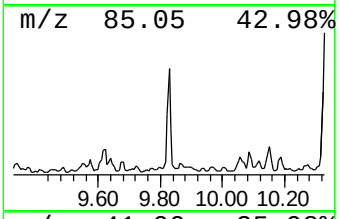



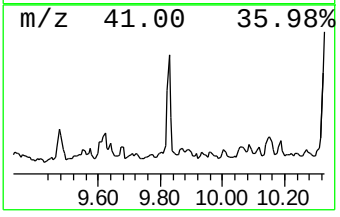



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073119\
Data File : BF115892.D
Acq On : 1 Aug 2019 2:58
Operator : HP/JU
Sample : K3621-07 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** OK-01-072919

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

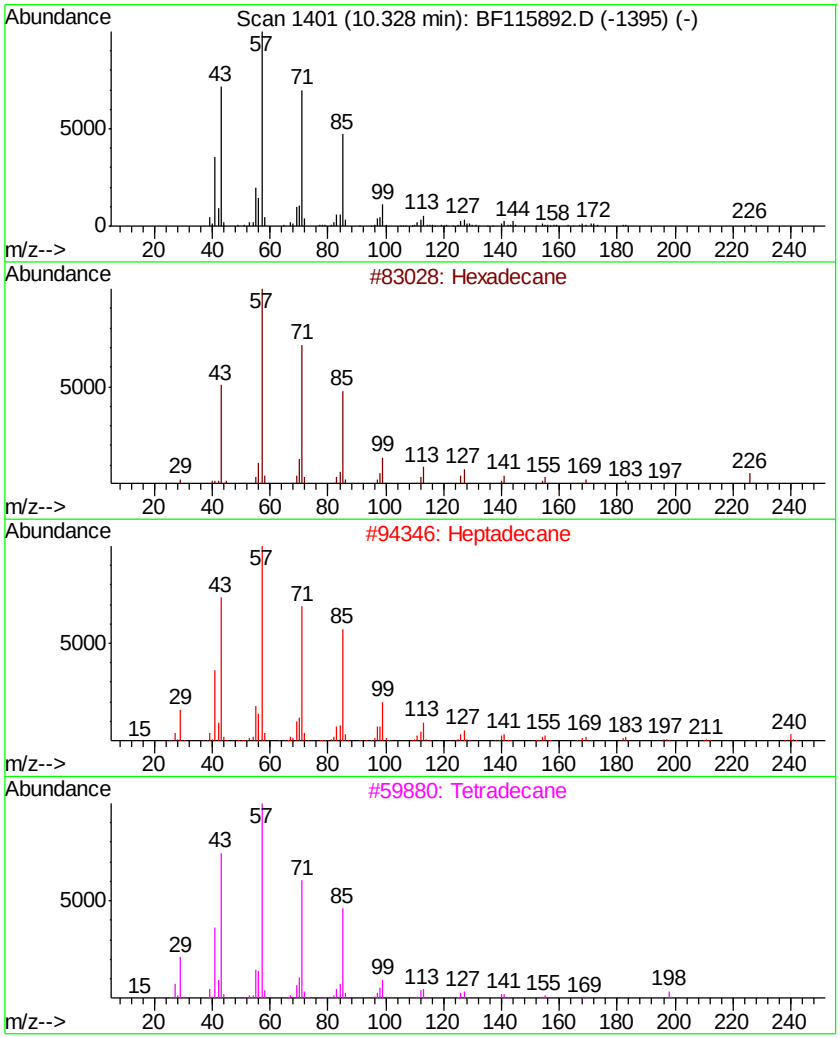
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

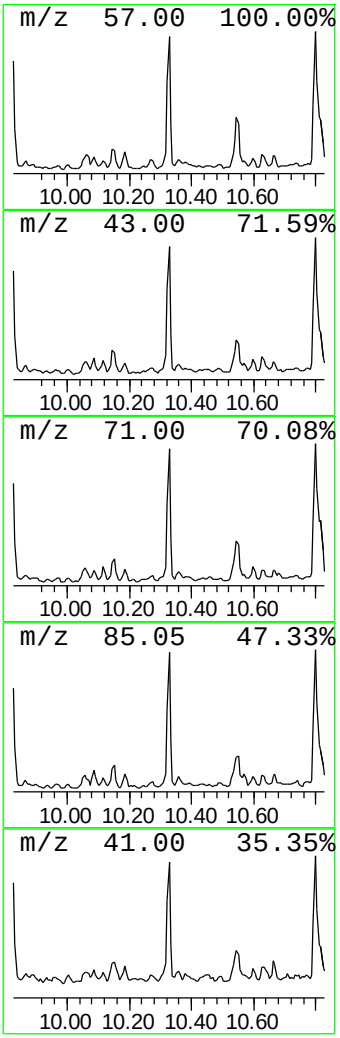
**********

Peak Number 5 Hexadecane Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.33 | 6.29 ng | 263492 | Acenaphthene-d10 | 9.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexadecane | 226 | C16H34 | 000544-76-3 | 95 |
| 2 | Heptadecane | 240 | C17H36 | 000629-78-7 | 91 |
| 3 | Tetradecane | 198 | C14H30 | 000629-59-4 | 91 |
| 4 | Decane, 2,3,5-trimethyl- | 184 | C13H28 | 062238-11-3 | 86 |
| 5 | Dodecane, 2-methyl-6-propyl- | 226 | C16H34 | 055045-08-4 | 86 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073119\
Data File : BF115892.D
Acq On : 1 Aug 2019 2:58
Operator : HP/JU
Sample : K3621-07 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** OK-01-072919

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

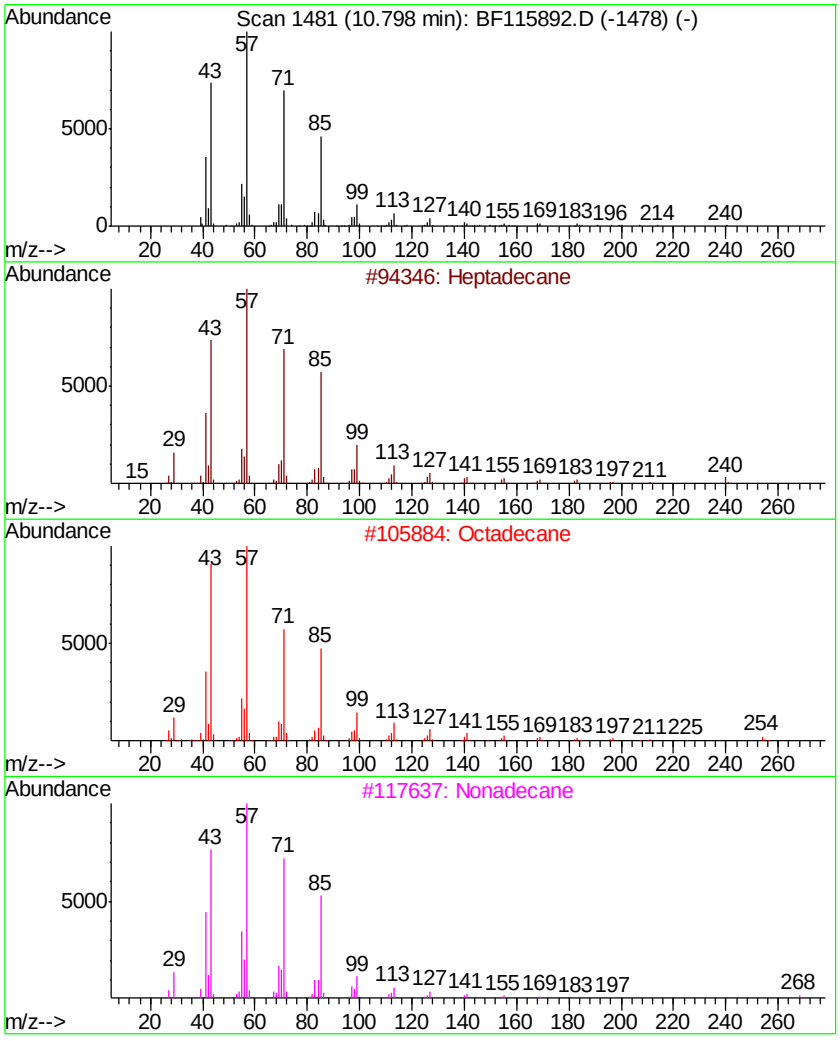
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

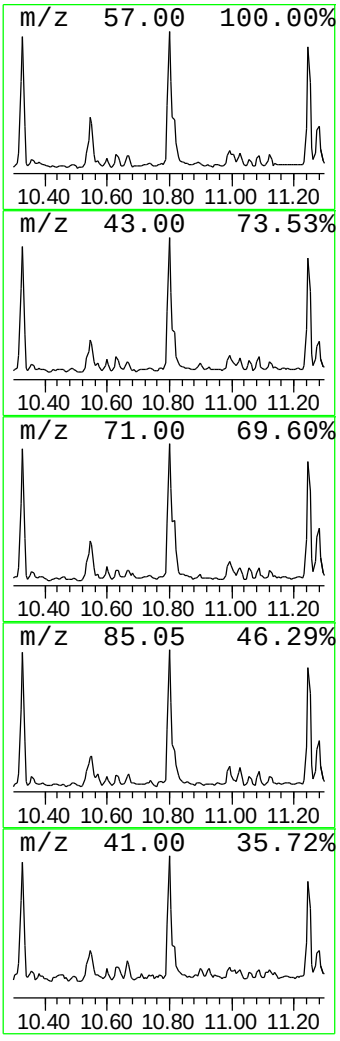
**********

Peak Number 6 Heptadecane Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.80 | 7.86 ng | 329299 | Phenanthrene-d10 | 11.38 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptadecane | 240 | C17H36 | 000629-78-7 | 97 |
| 2 | Octadecane | 254 | C18H38 | 000593-45-3 | 91 |
| 3 | Nonadecane | 268 | C19H40 | 000629-92-5 | 90 |
| 4 | Heptacosane | 380 | C27H56 | 000593-49-7 | 90 |
| 5 | 9-methylheptadecane | 254 | C18H38 | 026741-18-4 | 90 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073119\
Data File : BF115892.D
Acq On : 1 Aug 2019 2:58
Operator : HP/JU
Sample : K3621-07 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** OK-01-072919

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

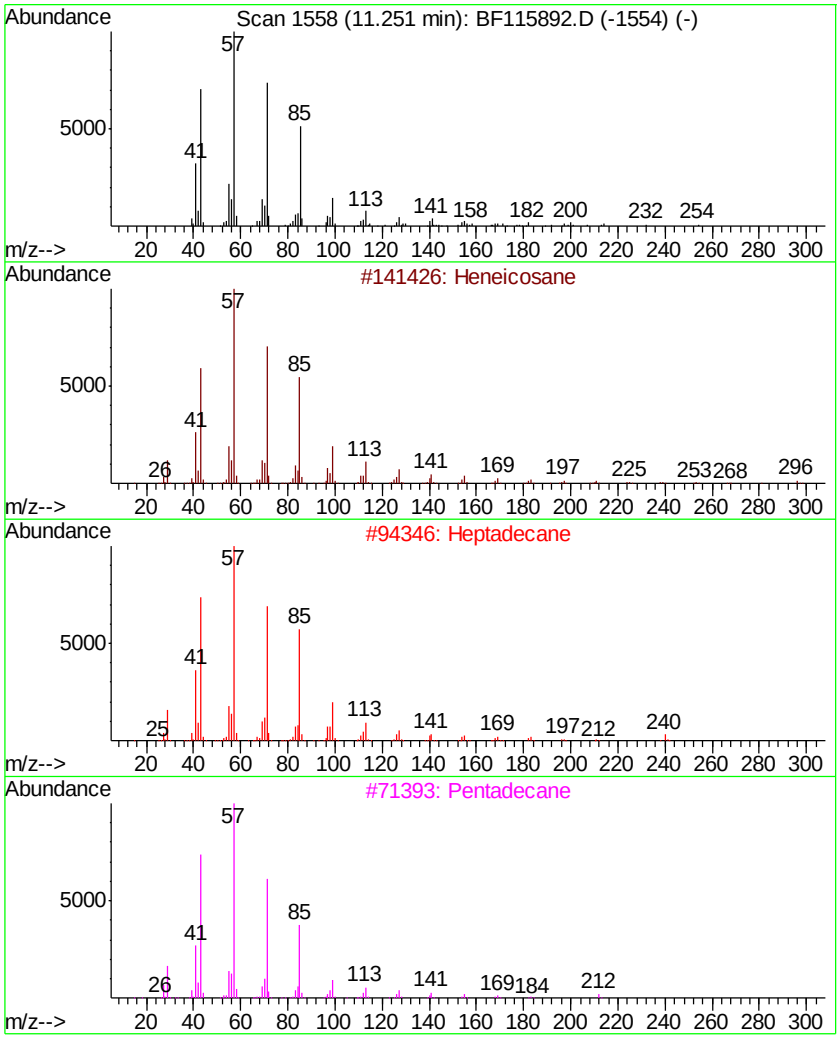
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

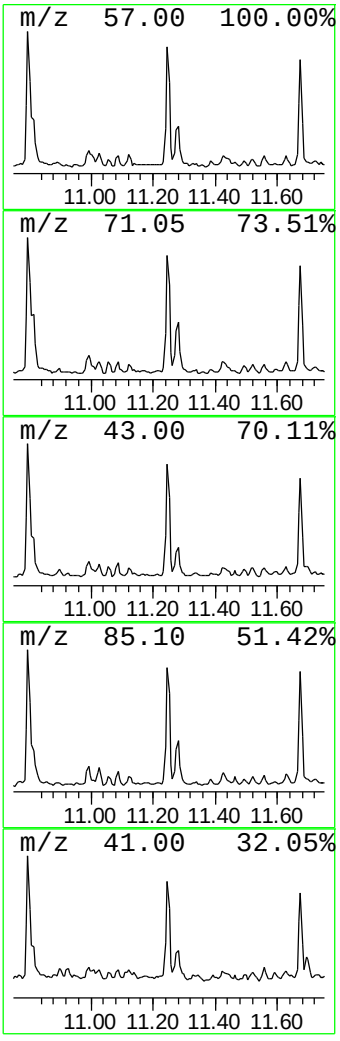
**********

Peak Number 7 Heneicosane Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.25 | 5.46 ng | 228688 | Phenanthrene-d10 | 11.38 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heneicosane | 296 | C21H44 | 000629-94-7 | 90 |
| 2 | Heptadecane | 240 | C17H36 | 000629-78-7 | 90 |
| 3 | Pentadecane | 212 | C15H32 | 000629-62-9 | 90 |
| 4 | Tetracosane | 338 | C24H50 | 000646-31-1 | 90 |
| 5 | Nonadecane | 268 | C19H40 | 000629-92-5 | 87 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073119\
Data File : BF115892.D
Acq On : 1 Aug 2019 2:58
Operator : HP/JU
Sample : K3621-07 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** OK-01-072919

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

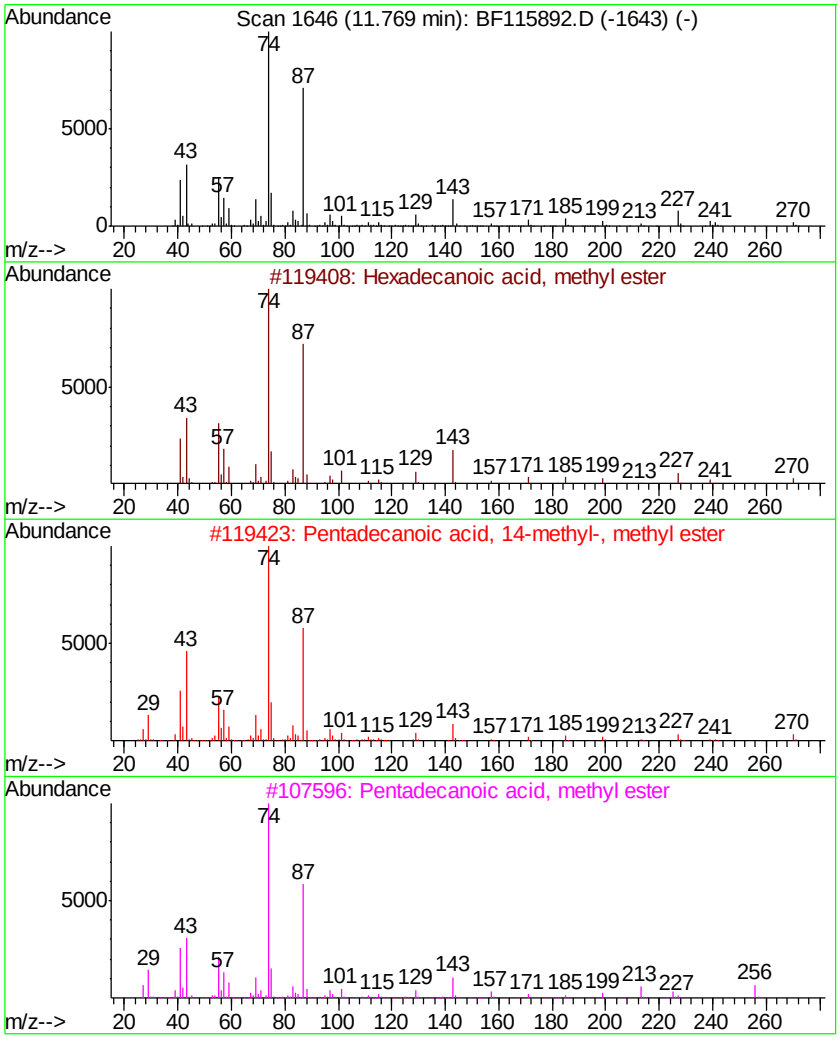
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

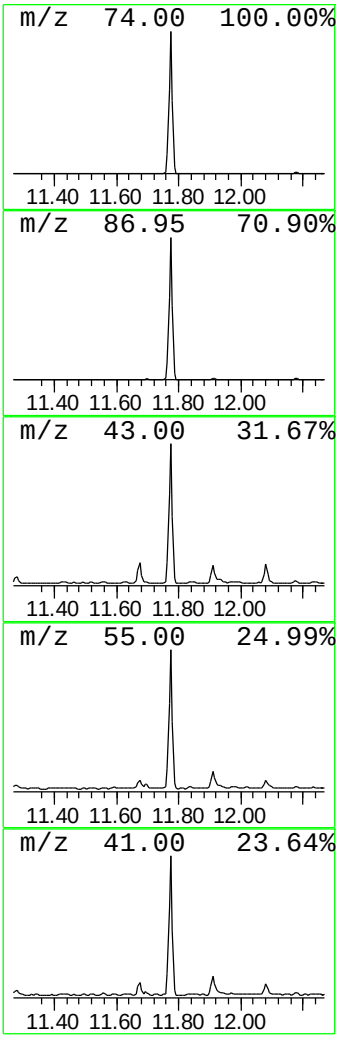
**********

Peak Number 8 Hexadecanoic acid, methyl e... Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.77 | 68.15 ng | 2855440 | Phenanthrene-d10 | 11.38 |

| 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 | 96 |
| 3 | Pentadecanoic acid, methyl ester | 256 | C16H32O2 | 007132-64-1 | 86 |
| 4 | Methyl tetradecanoate | 242 | C15H30O2 | 000124-10-7 | 83 |
| 5 | Hexadecanoic acid, 15-methyl-, m... | 284 | C18H36O2 | 006929-04-0 | 80 |



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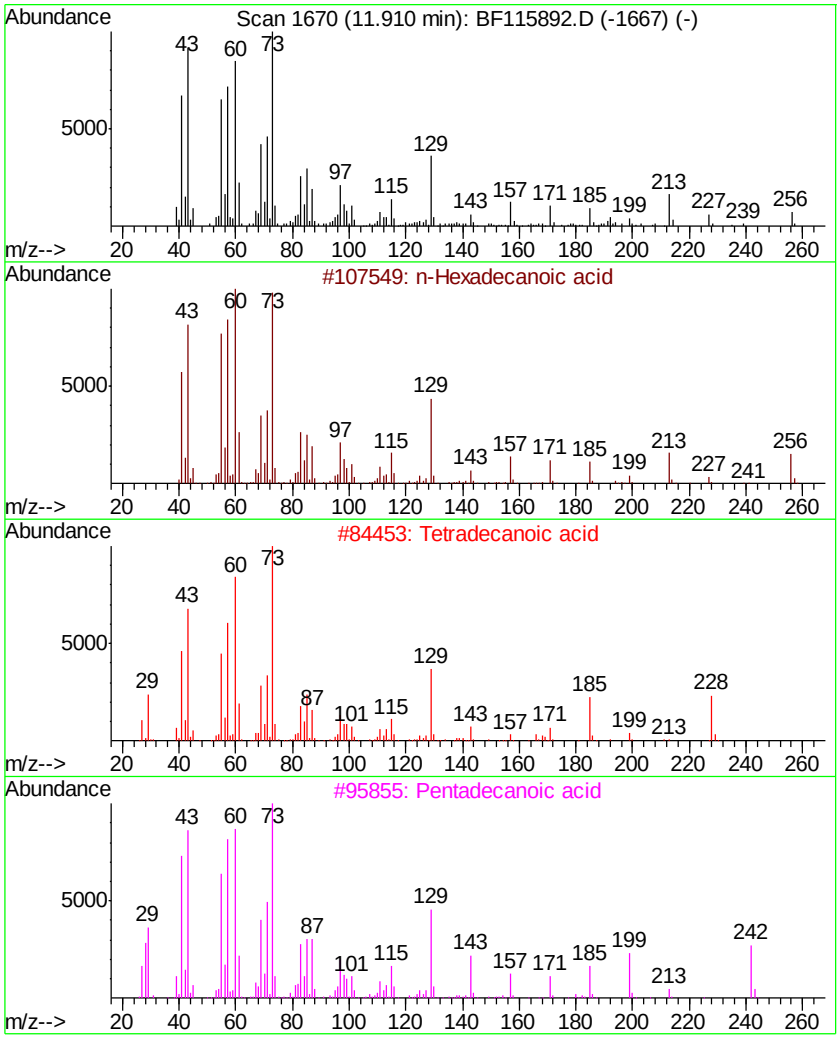
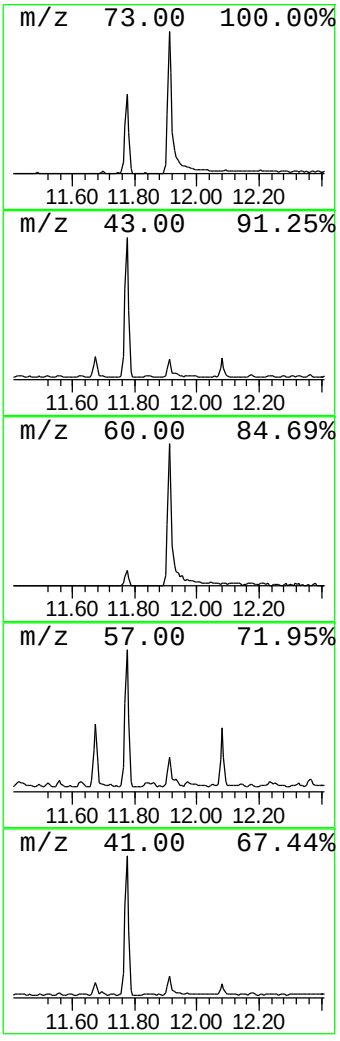
**********

Peak Number 9 n-Hexadecanoic acid Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.91 | 9.40 ng | 393771 | Phenanthrene-d10 | 11.38 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 98 |
| 2 | Tetradecanoic acid | 228 | C14H28O2 | 000544-63-8 | 86 |
| 3 | Pentadecanoic acid | 242 | C15H30O2 | 001002-84-2 | 83 |
| 4 | Tridecanoic acid | 214 | C13H26O2 | 000638-53-9 | 81 |
| 5 | Oxalic acid, allyl hexadecyl ester | 354 | C21H38O4 | 1000309-24-4 | 20 |



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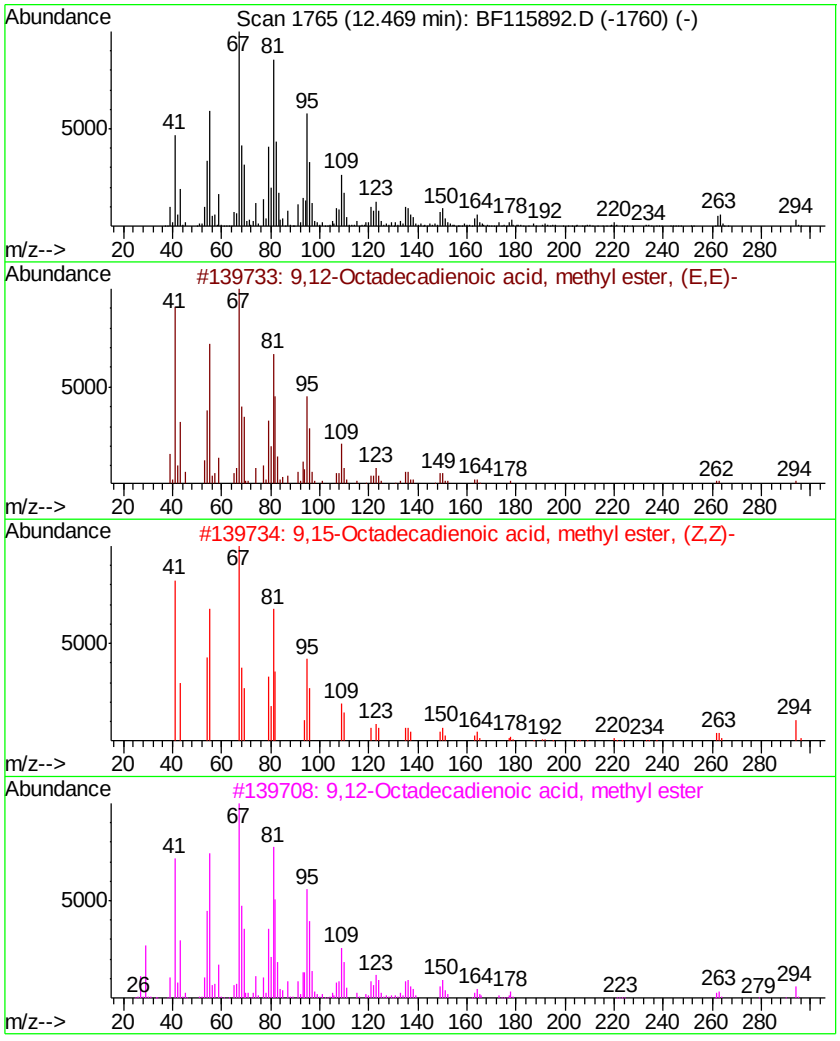
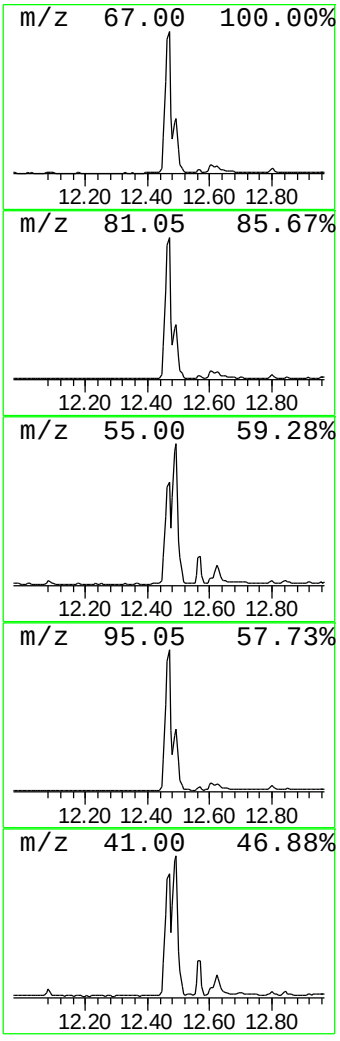
**********

Peak Number 10 9,12-Octadecadienoic acid, ... Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.47 | 155.48 ng | 6514990 | Phenanthrene-d10 | 11.38 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 9,12-Octadecadienoic acid, methy... | 294 | C19H34O2 | 002566-97-4 | 99 |
| 2 | 9,15-Octadecadienoic acid, methy... | 294 | C19H34O2 | 017309-05-6 | 99 |
| 3 | 9,12-Octadecadienoic acid, methy... | 294 | C19H34O2 | 002462-85-3 | 99 |
| 4 | 9,12-Octadecadienoic acid (Z,Z)-... | 294 | C19H34O2 | 000112-63-0 | 99 |
| 5 | 11,14-Octadecadienoic acid, meth... | 294 | C19H34O2 | 056554-61-1 | 98 |



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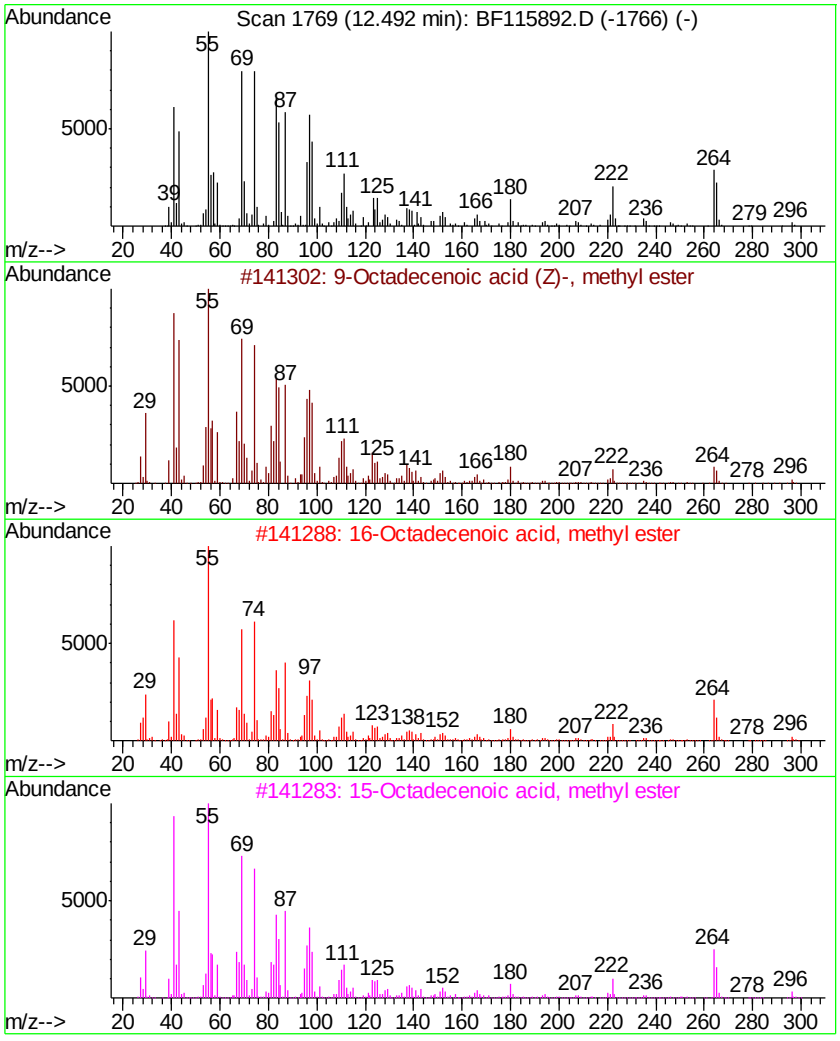
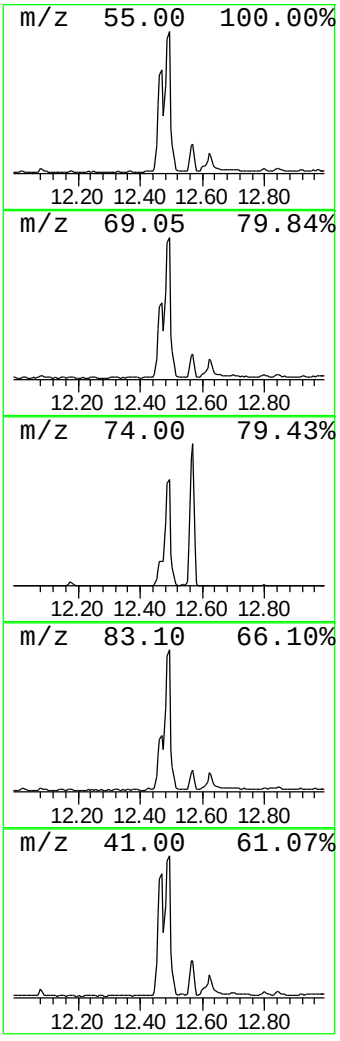
**********

Peak Number 11 9-Octadecenoic acid (Z)-, m... Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.49 | 156.56 ng | 6560070 | Phenanthrene-d10 | 11.38 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 9-Octadecenoic acid (Z)-, methyl... | 296 | C19H36O2 | 000112-62-9 | 97 |
| 2 | 16-Octadecenoic acid, methyl ester | 296 | C19H36O2 | 056554-49-5 | 93 |
| 3 | 15-Octadecenoic acid, methyl ester | 296 | C19H36O2 | 004764-72-1 | 92 |
| 4 | 6-Octadecenoic acid, methyl ester | 296 | C19H36O2 | 052355-31-4 | 86 |
| 5 | 13-Octadecenoic acid, methyl ester | 296 | C19H36O2 | 056554-47-3 | 74 |



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Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** OK-01-072919

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.M
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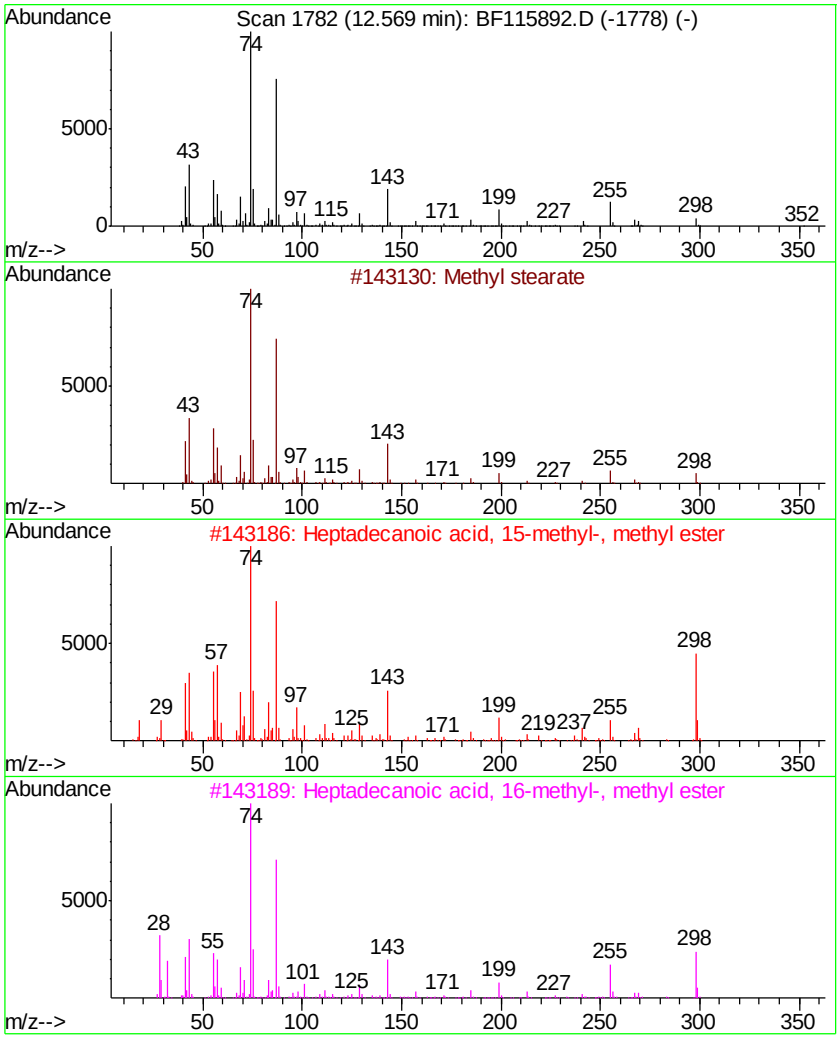
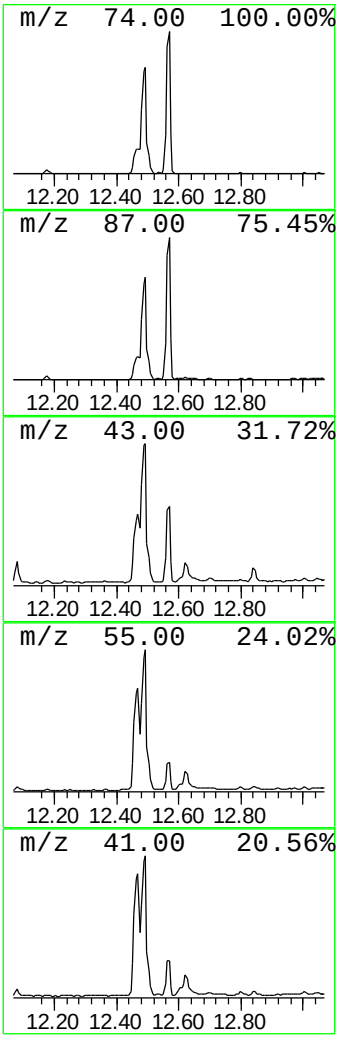
Peak Number 12 Methyl stearate Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.57 | 35.69 ng | 1495430 | Phenanthrene-d10 | 11.38 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Methyl stearate | 298 | C19H38O2 | 000112-61-8 | 98 |
| 2 | Heptadecanoic acid, 15-methyl-, ... | 298 | C19H38O2 | 054833-55-5 | 93 |
| 3 | Heptadecanoic acid, 16-methyl-, ... | 298 | C19H38O2 | 005129-61-3 | 92 |
| 4 | Tridecanoic acid, methyl ester | 228 | C14H28O2 | 001731-88-0 | 90 |
| 5 | Methyl tetradecanoate | 242 | C15H30O2 | 000124-10-7 | 90 |



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**Instrument :** BNA_F
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.M
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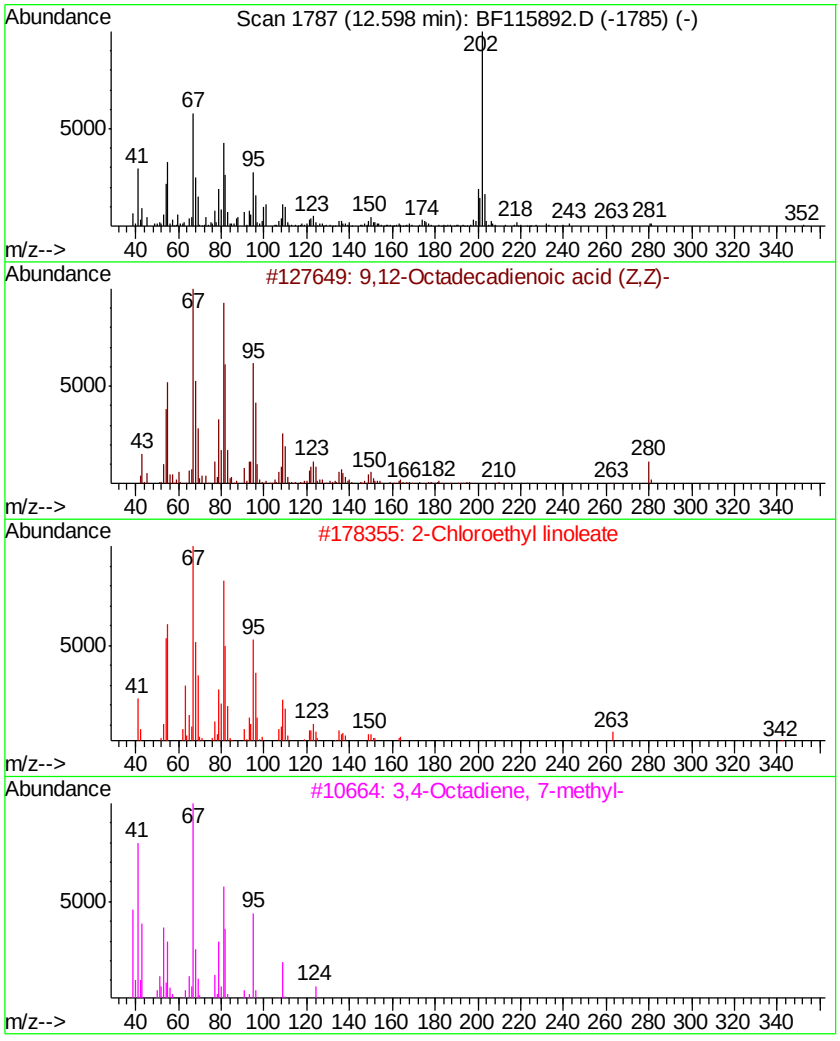
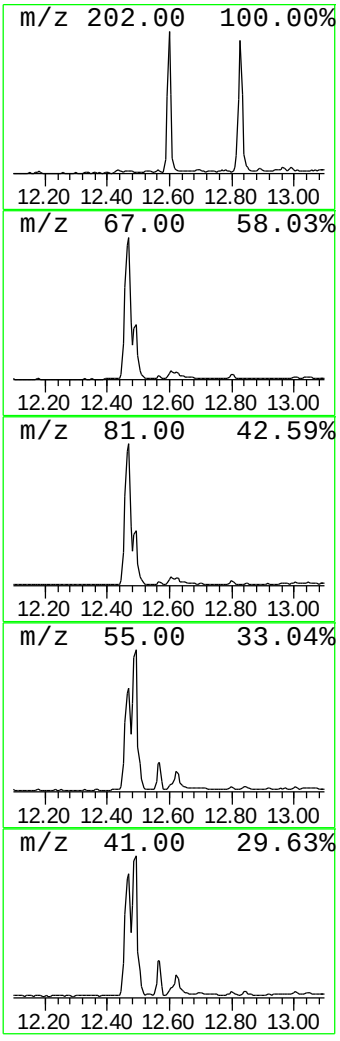
Peak Number 13 9,12-Octadecadienoic acid (... Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.60 | 7.75 ng | 324866 | Phenanthrene-d10 | 11.38 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 9,12-Octadecadienoic acid (Z,Z)- | 280 | C18H32O2 | 000060-33-3 | 94 |
| 2 | 2-Chloroethyl linoleate | 342 | C20H35ClO2 | 025525-76-2 | 87 |
| 3 | 3,4-Octadiene, 7-methyl- | 124 | C9H16 | 037050-05-8 | 76 |
| 4 | 6-Tridecane | 180 | C13H24 | 042371-66-4 | 58 |
| 5 | 2,9-Dimethyl-5-decyne | 166 | C12H22 | 019550-56-2 | 58 |



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Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** OK-01-072919

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.M
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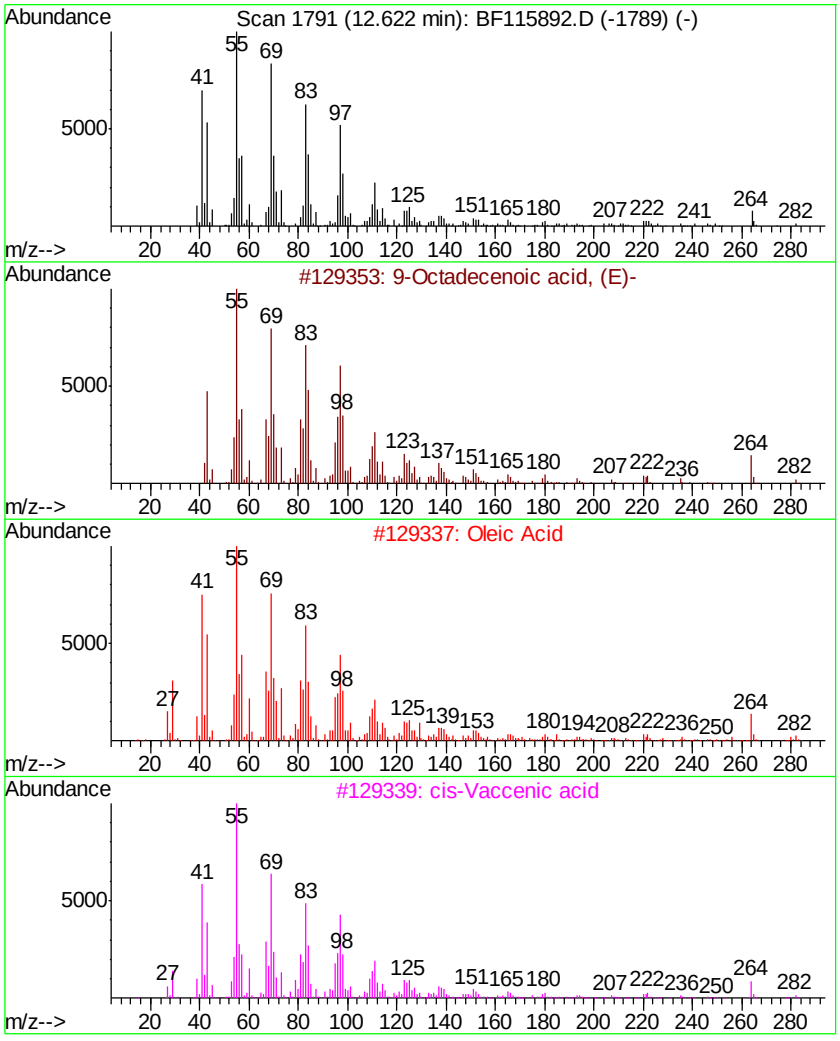
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

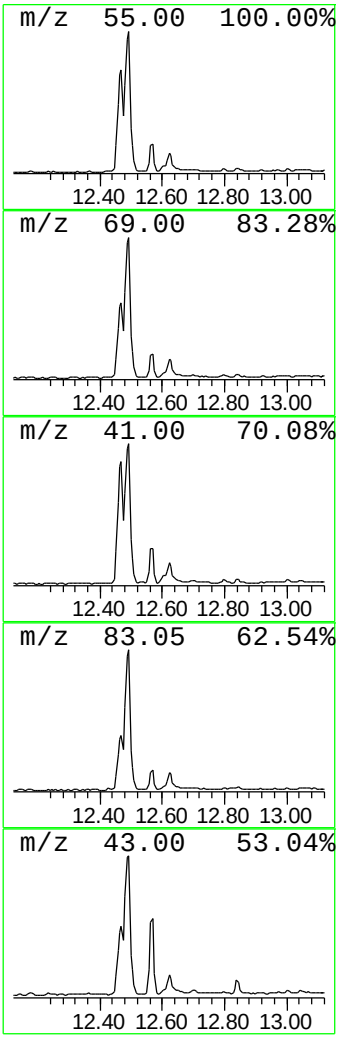
**********

Peak Number 14 9-Octadecenoic acid, (E)- Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.62 | 21.13 ng | 885585 | Phenanthrene-d10 | 11.38 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 9-Octadecenoic acid, (E)- | 282 | C18H34O2 | 000112-79-8 | 95 |
| 2 | Oleic Acid | 282 | C18H34O2 | 000112-80-1 | 55 |
| 3 | cis-Vaccenic acid | 282 | C18H34O2 | 000506-17-2 | 53 |
| 4 | trans-13-Octadecenoic acid | 282 | C18H34O2 | 000693-71-0 | 52 |
| 5 | cis-13-Octadecenoic acid | 282 | C18H34O2 | 013126-39-1 | 51 |



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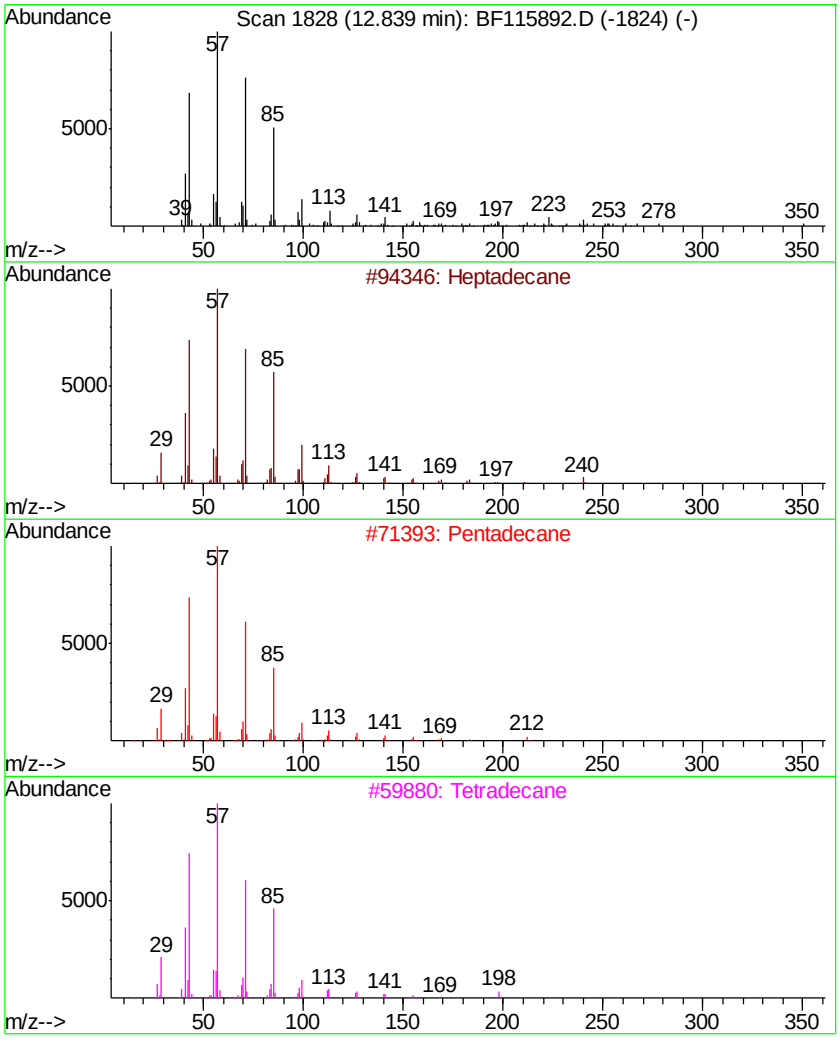
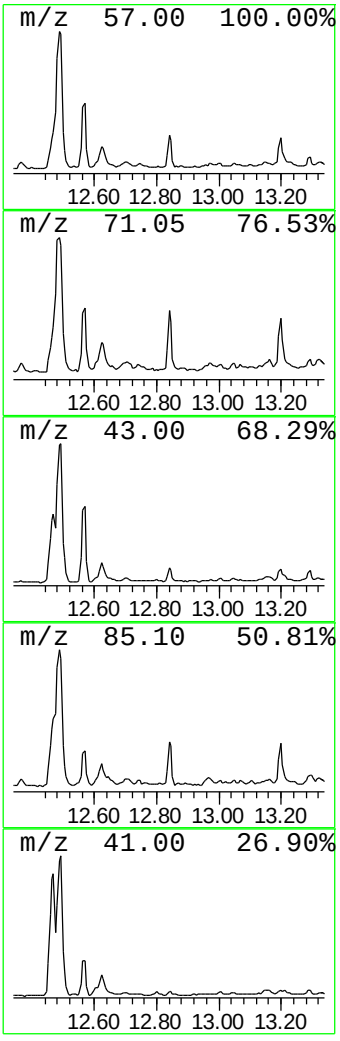
Peak Number 15 Tetradecane Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.84 | 5.19 ng | 229185 | Chrysene-d12 | 14.03 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptadecane | 240 | C17H36 | 000629-78-7 | 91 |
| 2 | Pentadecane | 212 | C15H32 | 000629-62-9 | 90 |
| 3 | Tetradecane | 198 | C14H30 | 000629-59-4 | 90 |
| 4 | Heneicosane | 296 | C21H44 | 000629-94-7 | 87 |
| 5 | Octacosane | 394 | C28H58 | 000630-02-4 | 86 |



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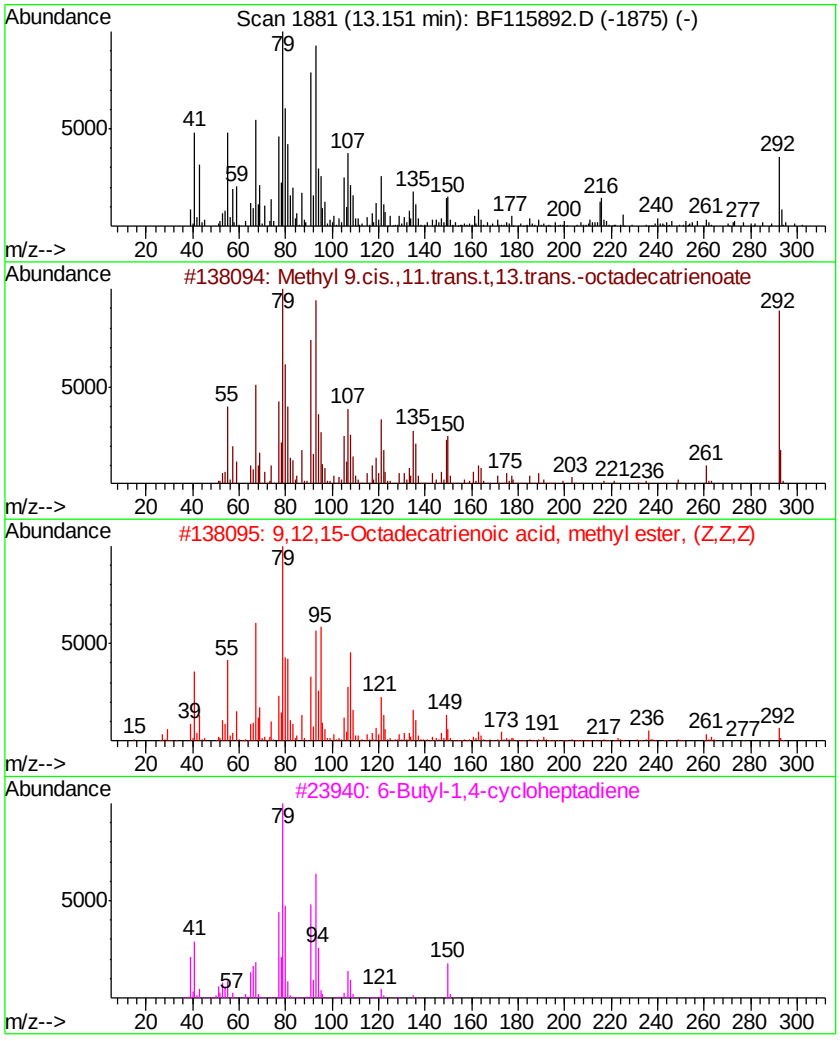
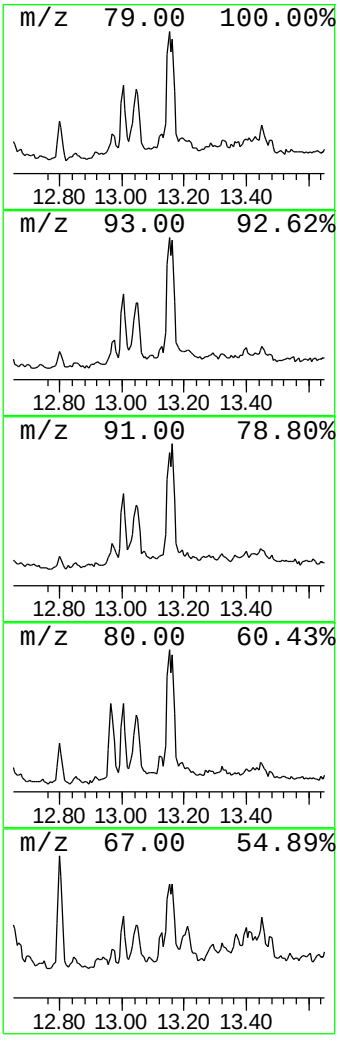
Peak Number 16 Methyl 9.cis.,11.trans.t,13... Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.15 | 12.29 ng | 542705 | Chrysene-d12 | 14.03 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Methyl 9.cis.,11.trans.t,13.tran... | 292 | C19H32O2 | 1000336-42-6 | 99 |
| 2 | 9,12,15-Octadecatrienoic acid, m... | 292 | C19H32O2 | 000301-00-8 | 83 |
| 3 | 6-Butyl-1,4-cycloheptadiene | 150 | C11H18 | 022735-58-6 | 81 |
| 4 | Methyl 6-cis,9-cis,11-trans-octa... | 292 | C19H32O2 | 1000336-37-7 | 74 |
| 5 | Bicyclo[2.2.1]heptane, 7,7-dimet... | 136 | C10H16 | 000471-84-1 | 68 |



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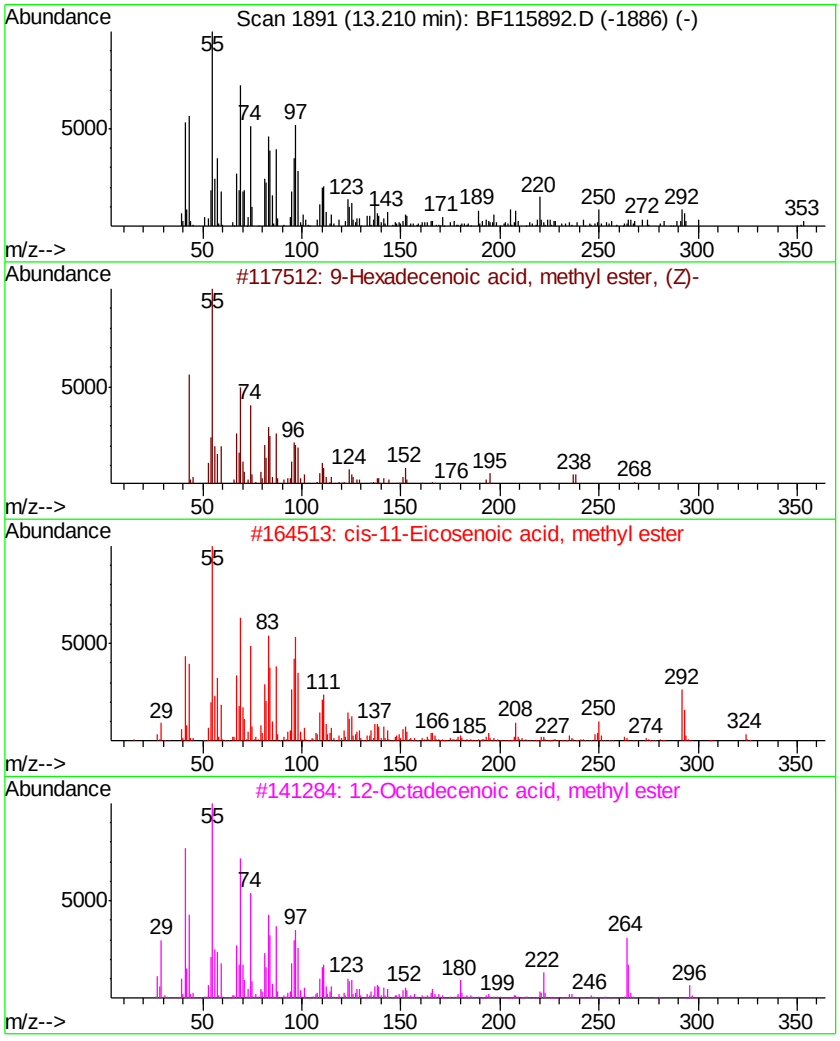
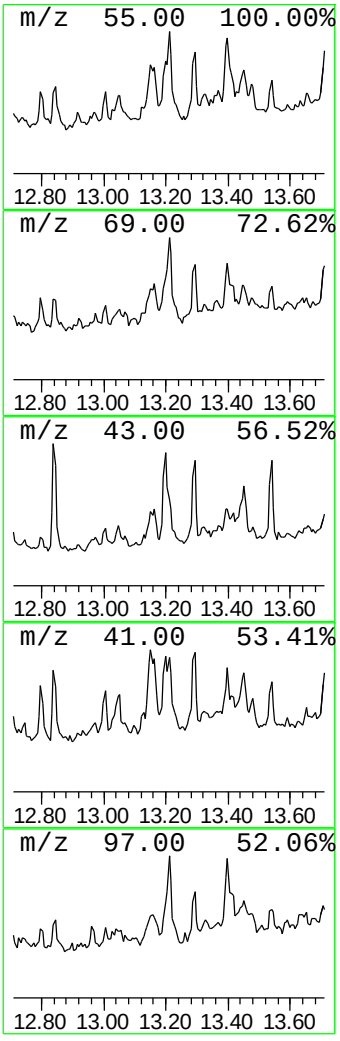
Peak Number 17 9-Hexadecenoic acid, methyl... Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.21 | 8.51 ng | 375653 | Chrysene-d12 | 14.03 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 9-Hexadecenoic acid, methyl este... | 268 | C17H32O2 | 001120-25-8 | 90 |
| 2 | cis-11-Eicosenoic acid, methyl e... | 324 | C21H40O2 | 1000333-63-8 | 90 |
| 3 | 12-Octadecenoic acid, methyl ester | 296 | C19H36O2 | 056554-46-2 | 90 |
| 4 | 9-Octadecenoic acid, methyl este... | 296 | C19H36O2 | 001937-62-8 | 90 |
| 5 | cis-10-Heptadecenoic acid, methy... | 282 | C18H34O2 | 1000333-62-1 | 90 |



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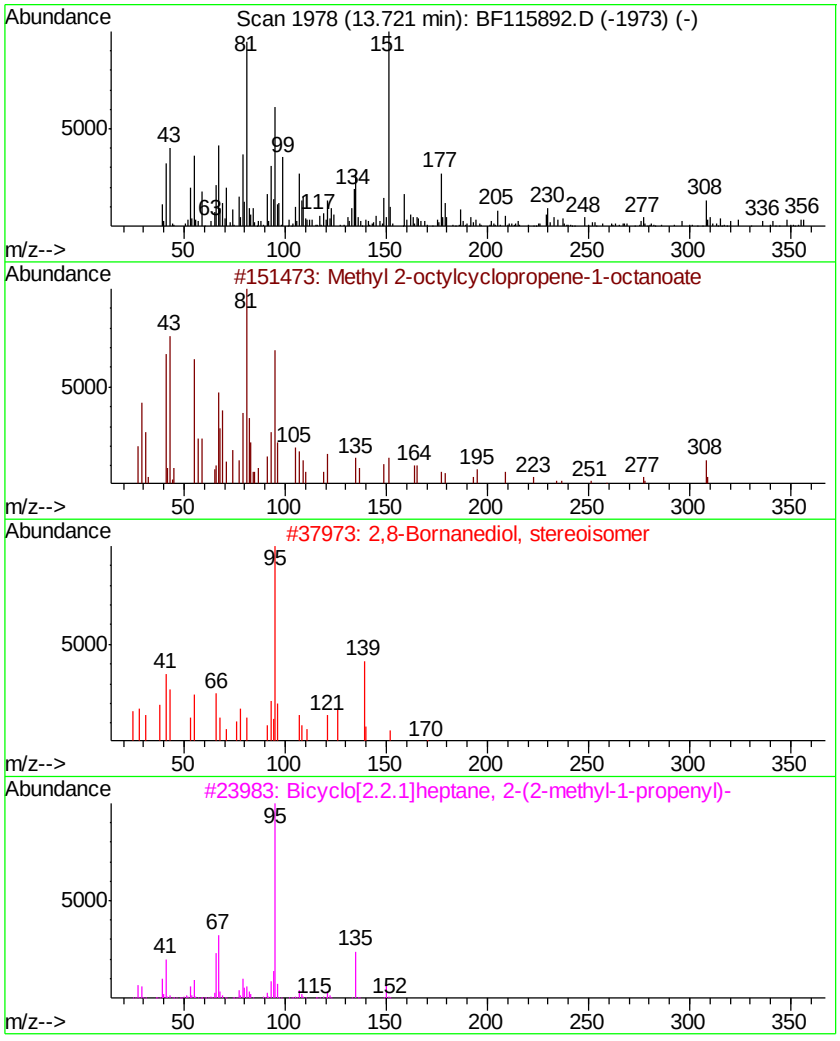
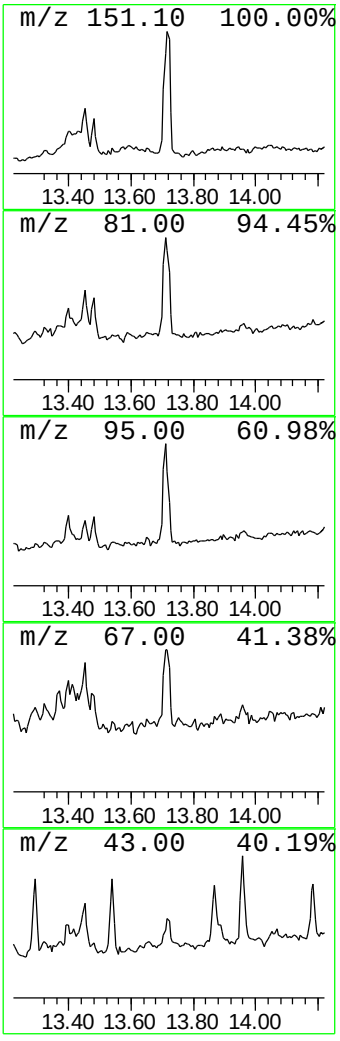
**********

Peak Number 18 unknown13.72 Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.72 | 5.65 ng | 249326 | Chrysene-d12 | 14.03 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Methyl 2-octylcyclopropene-1-oct... | 308 | C20H36O2 | 003220-60-8 | 45 |
| 2 | 2,8-Bornanediol, stereoisomer | 170 | C10H18O2 | 013429-50-0 | 38 |
| 3 | Bicyclo[2.2.1]heptane, 2-(2-meth... | 150 | C11H18 | 061142-27-6 | 35 |
| 4 | 2-Octynoic acid, methyl ester | 154 | C9H14O2 | 000111-12-6 | 35 |
| 5 | Naphthalene, decahydro-1,1-dimet... | 166 | C12H22 | 035431-04-0 | 30 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073119\
Data File : BF115892.D
Acq On : 1 Aug 2019 2:58
Operator : HP/JU
Sample : K3621-07 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** OK-01-072919

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

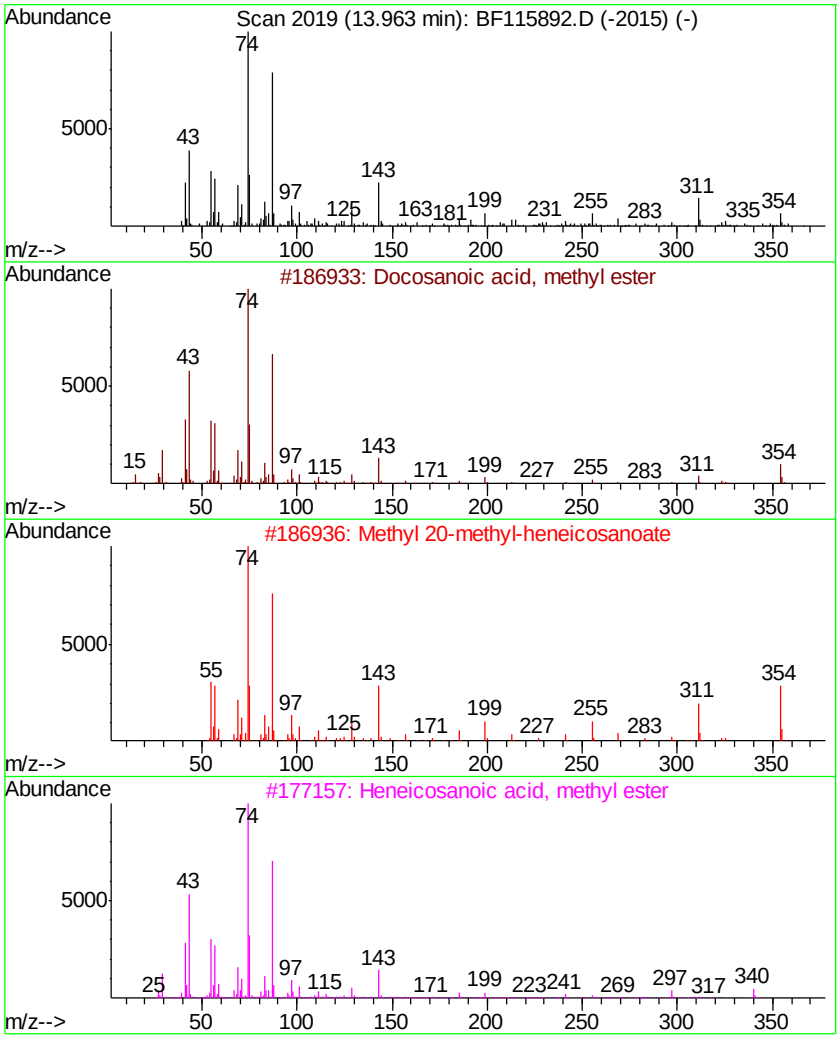
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

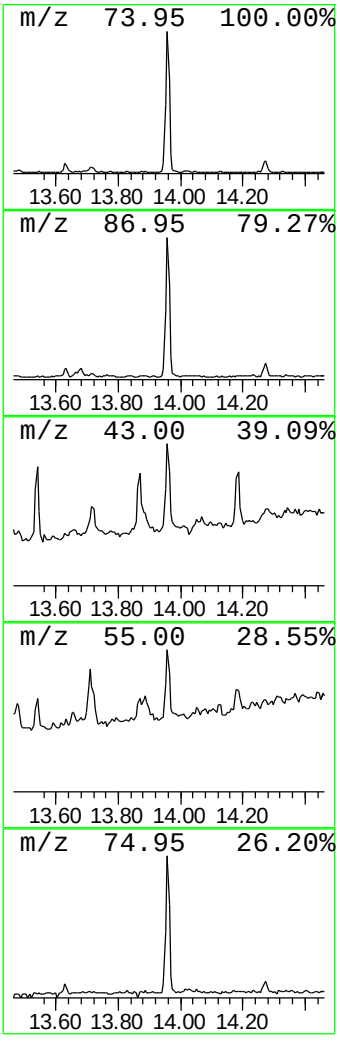
**********

Peak Number 19 Docosanoic acid, methyl ester Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.96 | 5.11 ng | 225828 | Chrysene-d12 | 14.03 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Docosanoic acid, methyl ester | 354 | C23H46O2 | 000929-77-1 | 98 |
| 2 | Methyl 20-methyl-heneicosanoate | 354 | C23H46O2 | 1000336-47-4 | 94 |
| 3 | Heneicosanoic acid, methyl ester | 340 | C22H44O2 | 006064-90-0 | 93 |
| 4 | Methyl stearate | 298 | C19H38O2 | 000112-61-8 | 90 |
| 5 | Nonadecanoic acid, methyl ester | 312 | C20H40O2 | 001731-94-8 | 90 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073119\
Data File : BF115892.D
Acq On : 1 Aug 2019 2:58
Operator : HP/JU
Sample : K3621-07 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** OK-01-072919

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

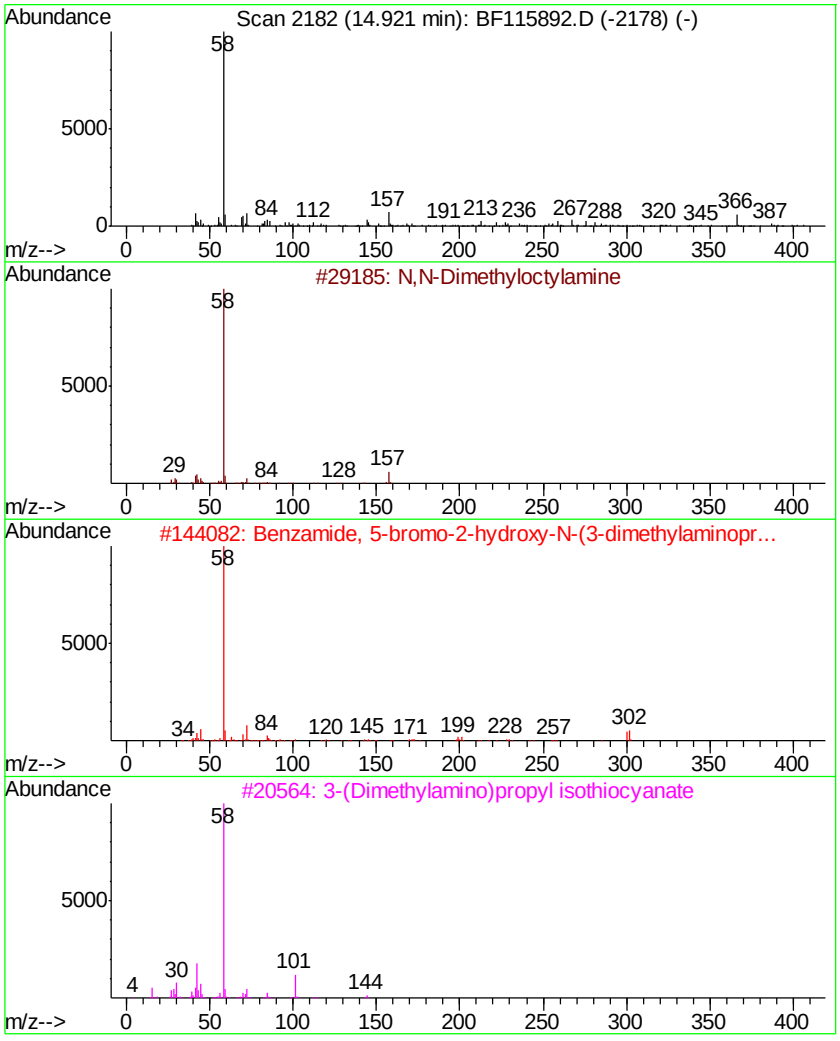
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

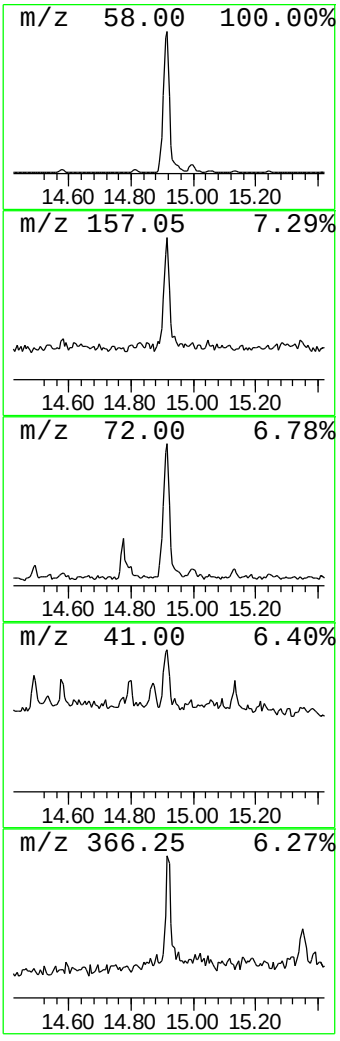
**********

Peak Number 20 N,N-Dimethyloctylamine Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.92 | 11.15 ng | 385076 | Perylene-d12 | 15.50 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | N,N-Dimethyloctylamine | 157 | C10H23N | 007378-99-6 | 72 |
| 2 | Benzamide, 5-bromo-2-hydroxy-N-(... | 300 | C12H17BrN2O2 | 289660-53-3 | 72 |
| 3 | 3-(Dimethylamino)propyl isothioc... | 144 | C6H12N2S | 027421-70-1 | 72 |
| 4 | S-[2-[N,N-Dimethylaminolethyllmo... | 261 | C10H19N3O3S | 1000212-14-3 | 64 |
| 5 | N-(4-(Dimethylamino)butyl)acetamide | 158 | C8H18N2O | 1000378-76-2 | 64 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF073119\
Data File : BF115892.D
Acq On : 1 Aug 2019 2:58
Operator : HP/JU
Sample : K3621-07 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** OK-01-072919

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.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 |
| 1,3,5-Cycloheptat... | 3.90 | 10.2 | ng | 343936 | 1 | 6.85 | 677027 | 20.0 |
| unknown6.62 | 6.62 | 16.1 | ng | 545532 | 1 | 6.85 | 677027 | 20.0 |
| Pentadecane | 9.83 | 5.2 | ng | 215946 | 3 | 9.90 | 837631 | 20.0 |
| Hexadecane | 10.33 | 6.3 | ng | 263492 | 3 | 9.90 | 837631 | 20.0 |
| Heptadecane | 10.80 | 7.9 | ng | 329299 | 4 | 11.38 | 838040 | 20.0 |
| Heneicosane | 11.25 | 5.5 | ng | 228688 | 4 | 11.38 | 838040 | 20.0 |
| Hexadecanoic acid... | 11.77 | 68.2 | ng | 2855440 | 4 | 11.38 | 838040 | 20.0 |
| n-Hexadecanoic acid | 11.91 | 9.4 | ng | 393771 | 4 | 11.38 | 838040 | 20.0 |
| 9,12-Octadecadien... | 12.47 | 155.5 | ng | 6514990 | 4 | 11.38 | 838040 | 20.0 |
| 9-Octadecenoic ac... | 12.49 | 156.6 | ng | 6560070 | 4 | 11.38 | 838040 | 20.0 |
| Methyl stearate | 12.57 | 35.7 | ng | 1495430 | 4 | 11.38 | 838040 | 20.0 |
| 9,12-Octadecadien... | 12.60 | 7.8 | ng | 324866 | 4 | 11.38 | 838040 | 20.0 |
| 9-Octadecenoic ac... | 12.62 | 21.1 | ng | 885585 | 4 | 11.38 | 838040 | 20.0 |
| Tetradecane | 12.84 | 5.2 | ng | 229185 | 5 | 14.03 | 883199 | 20.0 |
| Methyl 9.cis.,11.... | 13.15 | 12.3 | ng | 542705 | 5 | 14.03 | 883199 | 20.0 |
| 9-Hexadecenoic ac... | 13.21 | 8.5 | ng | 375653 | 5 | 14.03 | 883199 | 20.0 |
| unknown13.72 | 13.72 | 5.7 | ng | 249326 | 5 | 14.03 | 883199 | 20.0 |
| Docosanoic acid, ... | 13.96 | 5.1 | ng | 225828 | 5 | 14.03 | 883199 | 20.0 |
| N,N-Dimethyloctyl... | 14.92 | 11.2 | ng | 385076 | 6 | 15.50 | 690919 | 20.0 |