LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF063018\
Data File : BF107010.D
Acq On : 30 Jun 2018 13:16
Operator : JU/SJ
Sample : J3248-09 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** EO-03-062818-B

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.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 | 5.590 | 550 | 553 | 564 | rBV | 305298 | 311152 | 9.84% | 2.022% |
| 2 | 6.595 | 720 | 724 | 734 | rBV | 297709 | 303158 | 9.59% | 1.970% |
| 3 | 6.725 | 743 | 746 | 755 | rBV | 354635 | 323542 | 10.23% | 2.102% |
| 4 | 6.954 | 781 | 785 | 788 | rBV | 399733 | 362966 | 11.48% | 2.358% |
| 5 | 7.107 | 807 | 811 | 820 | rBV | 312154 | 249798 | 7.90% | 1.623% |
| 6 | 7.513 | 877 | 880 | 886 | rBV | 187731 | 176673 | 5.59% | 1.148% |
| 7 | 8.237 | 999 | 1003 | 1008 | rBV | 466867 | 426313 | 13.48% | 2.770% |
| 8 | 9.307 | 1181 | 1185 | 1192 | rBV | 337052 | 298840 | 9.45% | 1.942% |
| 9 | 9.701 | 1245 | 1252 | 1259 | rVB4 | 30662 | 62496 | 1.98% | 0.406% |
| 10 | 9.854 | 1274 | 1278 | 1281 | rBV | 45548 | 45185 | 1.43% | 0.294% |
| 11 | 9.901 | 1282 | 1286 | 1288 | rBV | 52773 | 44932 | 1.42% | 0.292% |
| 12 | 9.995 | 1298 | 1302 | 1305 | rBV | 453715 | 399117 | 12.62% | 2.593% |
| 13 | 10.401 | 1366 | 1371 | 1373 | rBV | 83201 | 72841 | 2.30% | 0.473% |
| 14 | 10.542 | 1392 | 1395 | 1401 | rVB3 | 25908 | 33191 | 1.05% | 0.216% |
| 15 | 10.619 | 1404 | 1408 | 1411 | rBV2 | 34537 | 38347 | 1.21% | 0.249% |
| 16 | 10.789 | 1433 | 1437 | 1440 | rBV | 174757 | 169788 | 5.37% | 1.103% |
| 17 | 10.872 | 1448 | 1451 | 1462 | rVB | 82976 | 115916 | 3.67% | 0.753% |
| 18 | 11.089 | 1481 | 1488 | 1491 | rBV4 | 21354 | 34838 | 1.10% | 0.226% |
| 19 | 11.325 | 1525 | 1528 | 1530 | rBV | 74608 | 59587 | 1.88% | 0.387% |
| 20 | 11.489 | 1552 | 1556 | 1558 | rBV | 437994 | 434595 | 13.74% | 2.823% |
| 21 | 11.507 | 1558 | 1559 | 1563 | rVV | 163764 | 133755 | 4.23% | 0.869% |
| 22 | 11.566 | 1566 | 1569 | 1571 | rBV | 62149 | 58447 | 1.85% | 0.380% |
| 23 | 11.748 | 1598 | 1600 | 1603 | rVB | 66755 | 52111 | 1.65% | 0.339% |
| 24 | 11.854 | 1614 | 1618 | 1621 | rBV | 1165546 | 962518 | 30.44% | 6.253% |
| 25 | 11.989 | 1637 | 1641 | 1643 | rBV | 68254 | 62597 | 1.98% | 0.407% |
| 26 | 12.019 | 1643 | 1646 | 1649 | rVB | 73093 | 67172 | 2.12% | 0.436% |
| 27 | 12.101 | 1657 | 1660 | 1662 | rBV2 | 96322 | 105391 | 3.33% | 0.685% |
| 28 | 12.124 | 1662 | 1664 | 1667 | rVB | 54142 | 45927 | 1.45% | 0.298% |
| 29 | 12.160 | 1667 | 1670 | 1672 | rBV | 56023 | 47620 | 1.51% | 0.309% |
| 30 | 12.554 | 1731 | 1737 | 1738 | rBV | 2675194 | 3162102 | 100.00% | 20.544% |
| 31 | 12.572 | 1738 | 1740 | 1746 | rVV2 | 2395893 | 2412700 | 76.30% | 15.675% |
| 32 | 12.648 | 1750 | 1753 | 1758 | rVB | 702690 | 583705 | 18.46% | 3.792% |
| 33 | 12.707 | 1759 | 1763 | 1766 | rBV | 284782 | 247146 | 7.82% | 1.606% |
| 34 | 12.883 | 1791 | 1793 | 1796 | rVB3 | 34492 | 31766 | 1.00% | 0.206% |

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF063018\
Data File : BF107010.D
Acq On : 30 Jun 2018 13:16
Operator : JU/SJ
Sample : J3248-09 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** EO-03-062818-B

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 12.936 | 1796 | 1802 | 1808 | rBV | 338835 | 402536 | 12.73% | 2.615% |
| 36 | 12.989 | 1808 | 1811 | 1815 | rBV | 40777 | 42763 | 1.35% | 0.278% |
| 37 | 13.071 | 1821 | 1825 | 1827 | rBV | 358012 | 329062 | 10.41% | 2.138% |
| 38 | 13.095 | 1827 | 1829 | 1832 | rVB3 | 40617 | 37794 | 1.20% | 0.246% |
| 39 | 13.148 | 1834 | 1838 | 1840 | rBV2 | 42522 | 60610 | 1.92% | 0.394% |
| 40 | 13.213 | 1846 | 1849 | 1851 | rBV4 | 32493 | 36730 | 1.16% | 0.239% |
| 41 | 13.242 | 1851 | 1854 | 1855 | rBV3 | 65454 | 69268 | 2.19% | 0.450% |
| 42 | 13.330 | 1867 | 1869 | 1872 | rVB | 61307 | 44617 | 1.41% | 0.290% |
| 43 | 13.371 | 1872 | 1876 | 1879 | rBV2 | 152276 | 144003 | 4.55% | 0.936% |
| 44 | 13.466 | 1889 | 1892 | 1894 | rBV | 81198 | 74436 | 2.35% | 0.484% |
| 45 | 13.495 | 1894 | 1897 | 1900 | rVB | 84207 | 84887 | 2.68% | 0.551% |
| 46 | 13.619 | 1915 | 1918 | 1920 | rBV3 | 33349 | 40821 | 1.29% | 0.265% |
| 47 | 13.813 | 1948 | 1951 | 1953 | rVB3 | 31598 | 34462 | 1.09% | 0.224% |
| 48 | 13.889 | 1959 | 1964 | 1967 | rBV3 | 47516 | 76824 | 2.43% | 0.499% |
| 49 | 13.948 | 1971 | 1974 | 1979 | rBV4 | 62936 | 92257 | 2.92% | 0.599% |
| 50 | 14.048 | 1988 | 1991 | 1994 | rBV2 | 89074 | 94794 | 3.00% | 0.616% |
| 51 | 14.142 | 2002 | 2007 | 2010 | rBV2 | 648126 | 771552 | 24.40% | 5.013% |
| 52 | 14.171 | 2010 | 2012 | 2015 | rVV | 171684 | 144873 | 4.58% | 0.941% |
| 53 | 14.224 | 2019 | 2021 | 2024 | rBV2 | 31059 | 33911 | 1.07% | 0.220% |
| 54 | 14.542 | 2073 | 2075 | 2078 | rVB | 68682 | 48614 | 1.54% | 0.316% |
| 55 | 14.577 | 2078 | 2081 | 2085 | rBV2 | 50024 | 71425 | 2.26% | 0.464% |
| 56 | 14.671 | 2095 | 2097 | 2099 | rBV | 43219 | 41251 | 1.30% | 0.268% |
| 57 | 15.230 | 2189 | 2192 | 2195 | rBV | 81570 | 109475 | 3.46% | 0.711% |
| 58 | 15.554 | 2245 | 2247 | 2252 | rVB | 69006 | 81698 | 2.58% | 0.531% |
| 59 | 15.624 | 2256 | 2259 | 2263 | rVB | 88206 | 105355 | 3.33% | 0.684% |
| 60 | 15.689 | 2266 | 2270 | 2274 | rVB | 311197 | 381878 | 12.08% | 2.481% |

Sum of corrected areas: 15392128

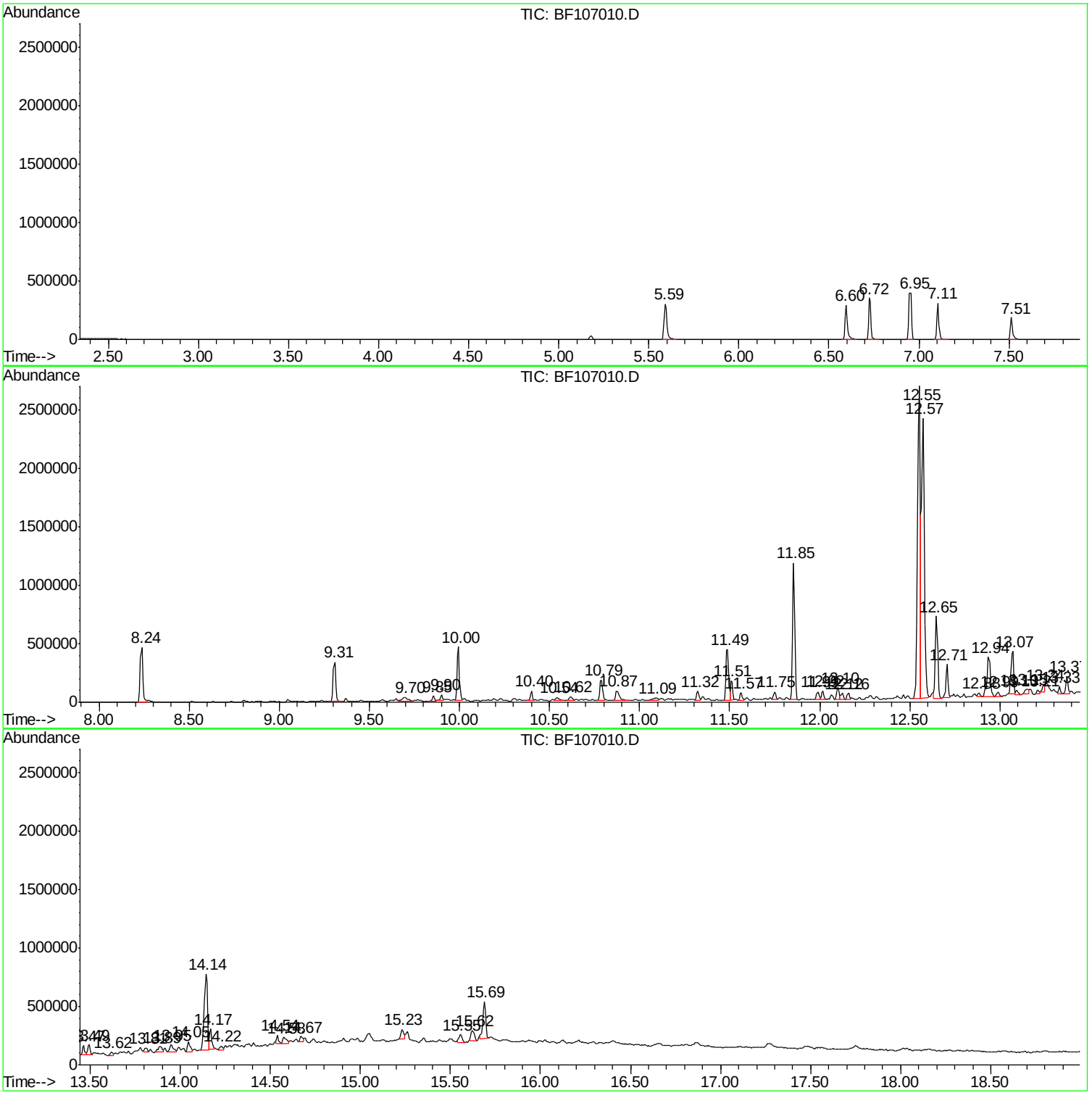
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF063018\
Data File : BF107010.D
Acq On : 30 Jun 2018 13:16
Operator : JU/SJ
Sample : J3248-09 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** EO-03-062818-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.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\BF063018\
Data File : BF107010.D
Acq On : 30 Jun 2018 13:16
Operator : JU/SJ
Sample : J3248-09 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** EO-03-062818-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

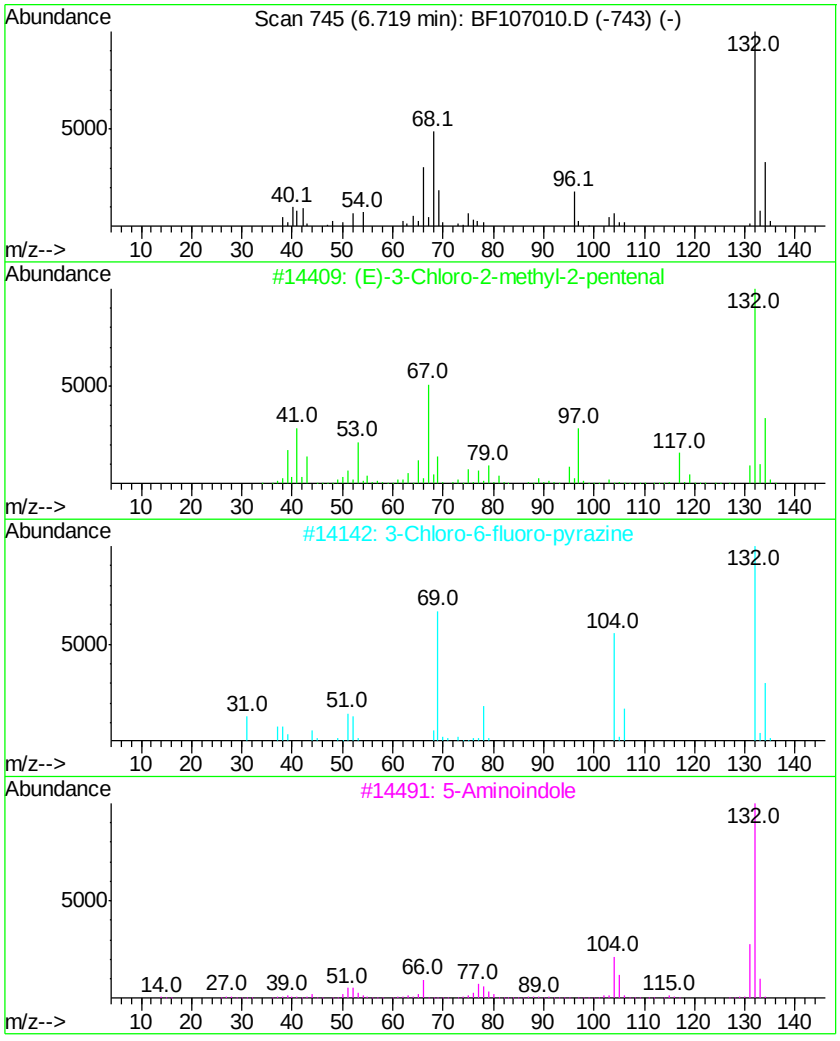
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

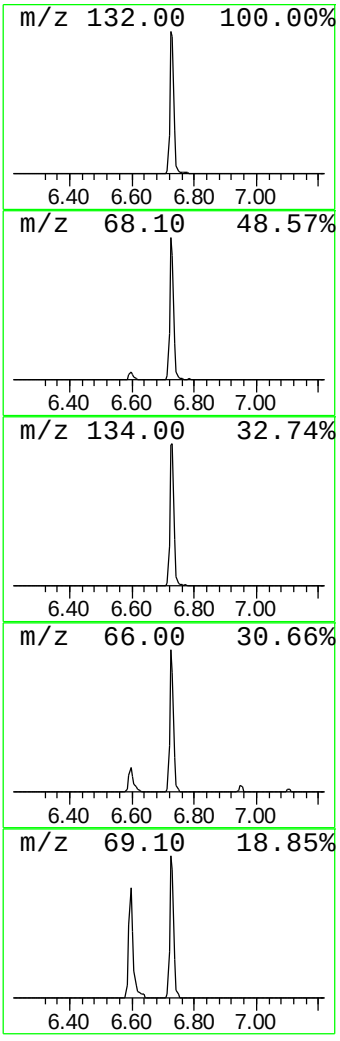
**********

Peak Number 1 unknown6.72 Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.72 | 17.83 ng | 323542 | 1,4-Dichlorobenzene-d4 | 6.95 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO | 031357-76-3 | 17 |
| 2 | 3-Chloro-6-fluoro-pyrazine | 132 | C4H2ClFN2 | 1000146-10-7 | 16 |
| 3 | 5-Aminoindole | 132 | C8H8N2 | 005192-03-0 | 12 |
| 4 | 2H-Cyclopenta[d]pyridazine, 2-me... | 132 | C8H8N2 | 022291-85-6 | 9 |
| 5 | 4-Chloro-2-fluoro-pyrimidine | 132 | C4H2ClFN2 | 051422-00-5 | 9 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF063018\
Data File : BF107010.D
Acq On : 30 Jun 2018 13:16
Operator : JU/SJ
Sample : J3248-09 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** EO-03-062818-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

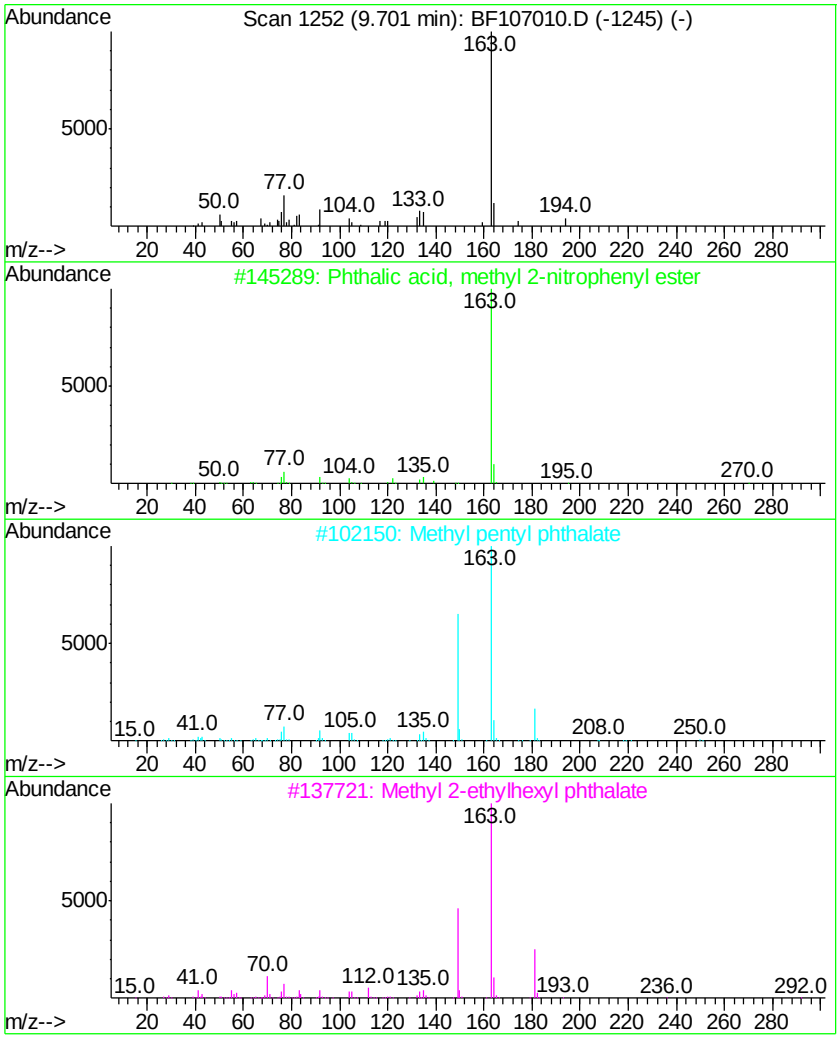
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

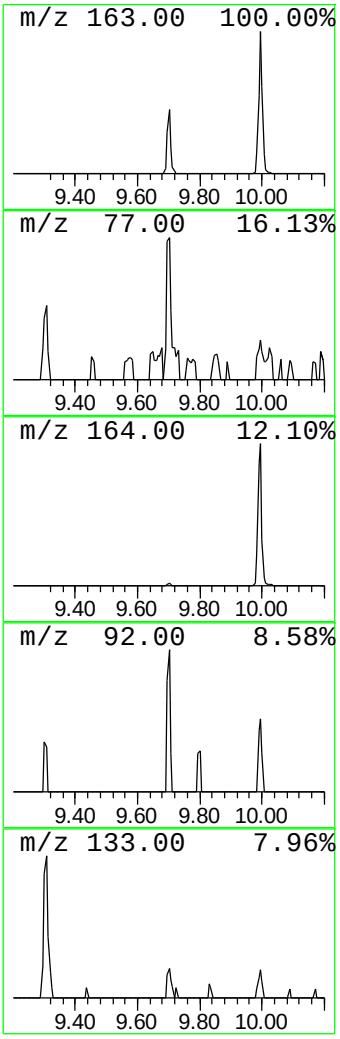
**********

Peak Number 3 Phthalic acid, methyl 2-nit... Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.70 | 3.13 ng | 62496 | Acenaphthene-d10 | 10.00 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phthalic acid, methyl 2-nitrophe... | 301 | C15H11NO6 | 1000315-68-3 | 78 |
| 2 | Methyl pentyl phthalate | 250 | C14H18O4 | 1000373-89-5 | 78 |
| 3 | Methyl 2-ethylhexyl phthalate | 292 | C17H24O4 | 056166-83-7 | 72 |
| 4 | Methyl 4-methylpentan-2-yl phtha... | 264 | C15H20O4 | 1000373-82-3 | 64 |
| 5 | Hexyl methyl phthalate | 264 | C15H20O4 | 1000373-89-7 | 64 |



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF063018\
Data File : BF107010.D
Acq On : 30 Jun 2018 13:16
Operator : JU/SJ
Sample : J3248-09 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** EO-03-062818-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

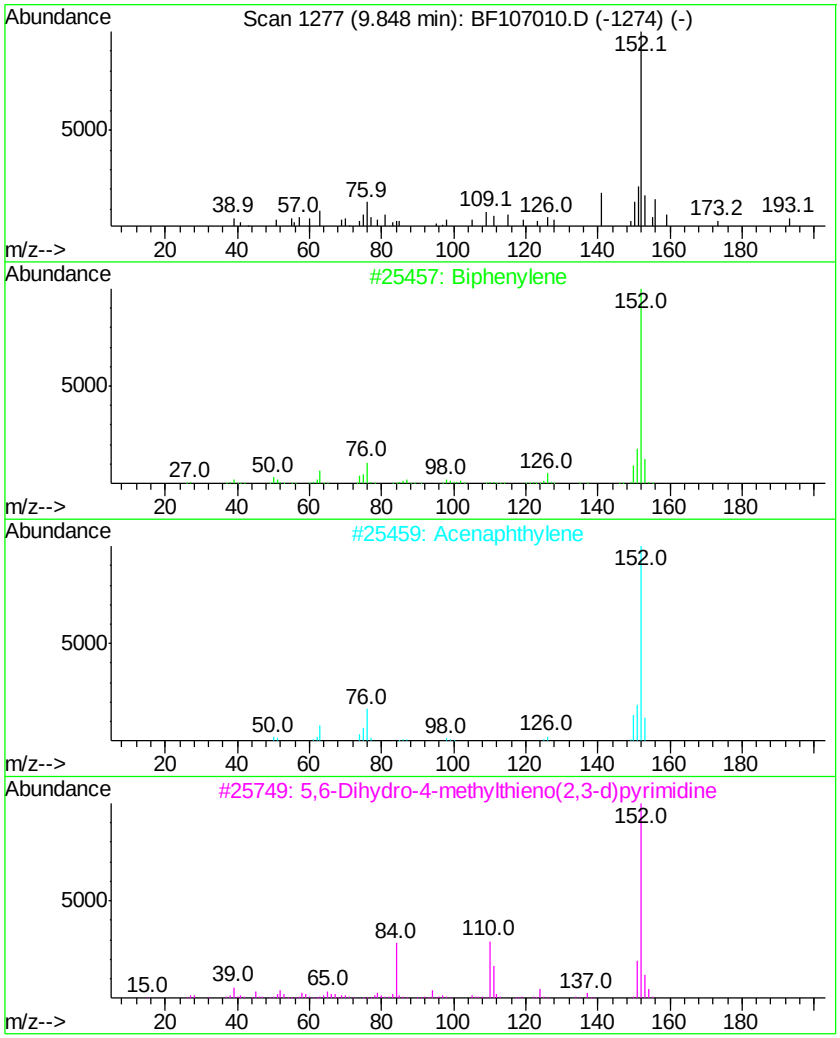
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

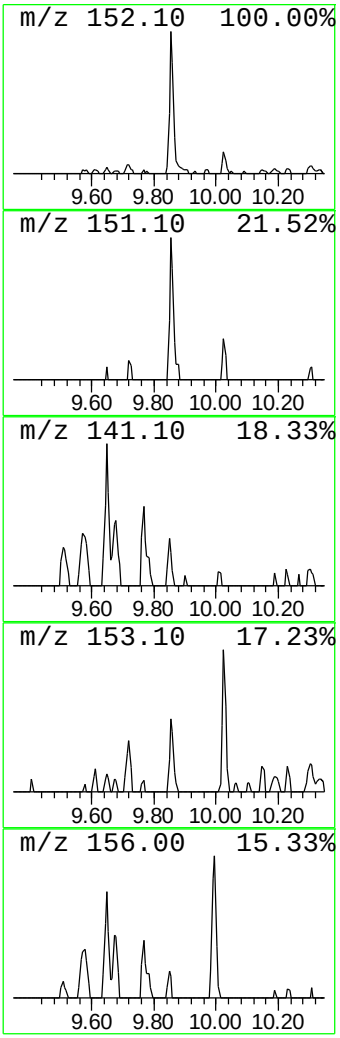
**********

Peak Number 4 Biphenylene Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.85 | 2.26 ng | 45185 | Acenaphthene-d10 | 10.00 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Biphenylene | 152 | C12H8 | 000259-79-0 | 94 |
| 2 | Acenaphthylene | 152 | C12H8 | 000208-96-8 | 81 |
| 3 | 5,6-Dihydro-4-methylthieno(2,3-d... | 152 | C7H8N2S | 092204-06-3 | 53 |
| 4 | d-Proline, n-propargyloxycarbony... | 239 | C12H17NO4 | 1000328-06-6 | 28 |
| 5 | 1,4-Benzenediol, 2,3,5-trimethyl- | 152 | C9H12O2 | 000700-13-0 | 9 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF063018\
Data File : BF107010.D
Acq On : 30 Jun 2018 13:16
Operator : JU/SJ
Sample : J3248-09 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** EO-03-062818-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

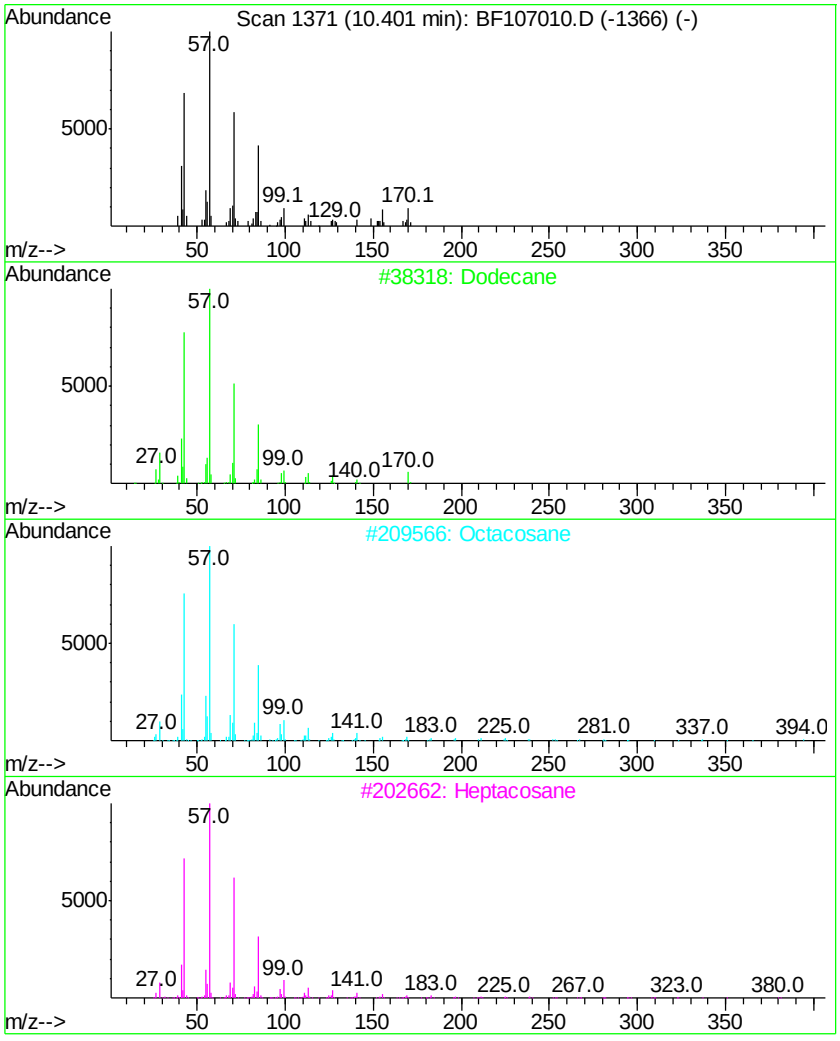
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

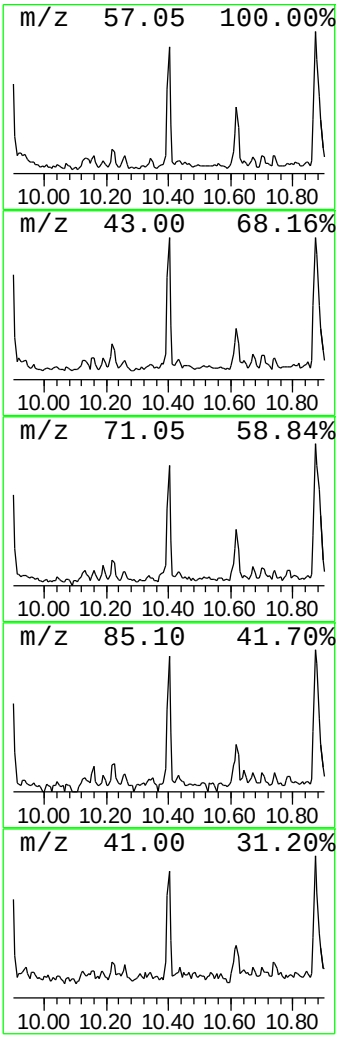
**********

Peak Number 6 Dodecane Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.40 | 3.65 ng | 72841 | Acenaphthene-d10 | 10.00 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Dodecane | 170 | C12H26 | 000112-40-3 | 92 |
| 2 | Octacosane | 394 | C28H58 | 000630-02-4 | 83 |
| 3 | Heptacosane | 380 | C27H56 | 000593-49-7 | 80 |
| 4 | Pentadecane | 212 | C15H32 | 000629-62-9 | 80 |
| 5 | Hexadecane | 226 | C16H34 | 000544-76-3 | 80 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF063018\
Data File : BF107010.D
Acq On : 30 Jun 2018 13:16
Operator : JU/SJ
Sample : J3248-09 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** EO-03-062818-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

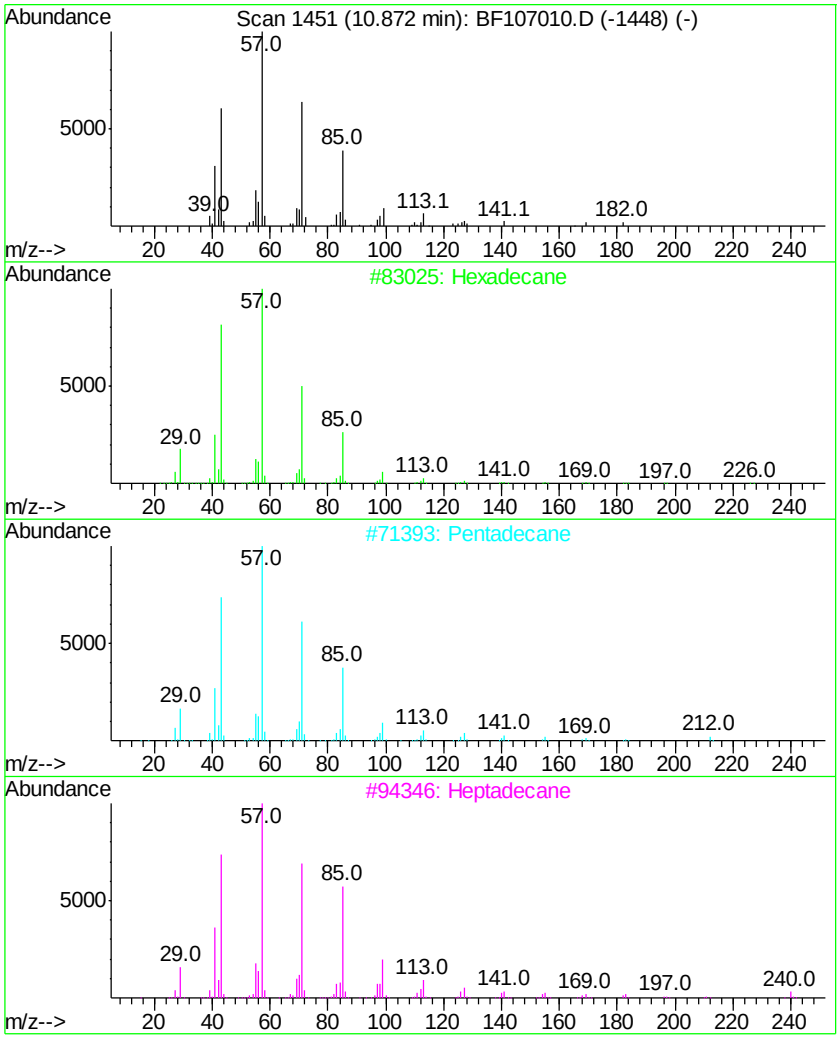
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

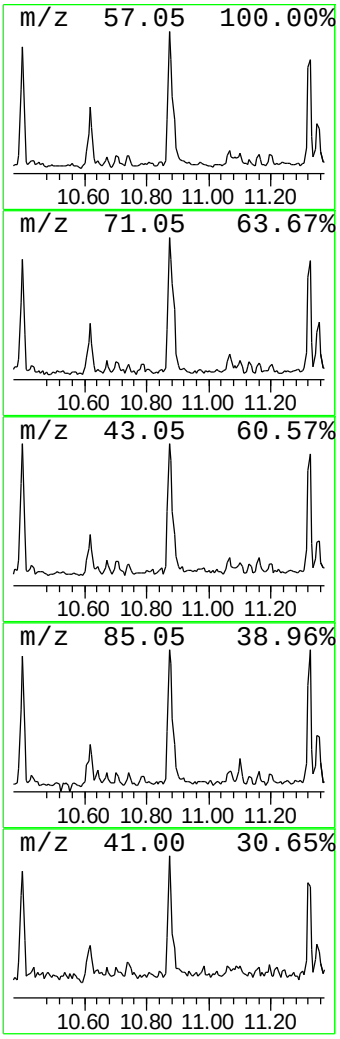
**********

Peak Number 7 Hexadecane Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.87 | 5.33 ng | 115916 | Phenanthrene-d10 | 11.49 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexadecane | 226 | C16H34 | 000544-76-3 | 90 |
| 2 | Pentadecane | 212 | C15H32 | 000629-62-9 | 86 |
| 3 | Heptadecane | 240 | C17H36 | 000629-78-7 | 83 |
| 4 | 10-Methylnonadecane | 282 | C20H42 | 056862-62-5 | 78 |
| 5 | Heptacosane | 380 | C27H56 | 000593-49-7 | 72 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF063018\
Data File : BF107010.D
Acq On : 30 Jun 2018 13:16
Operator : JU/SJ
Sample : J3248-09 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
EO-03-062818-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

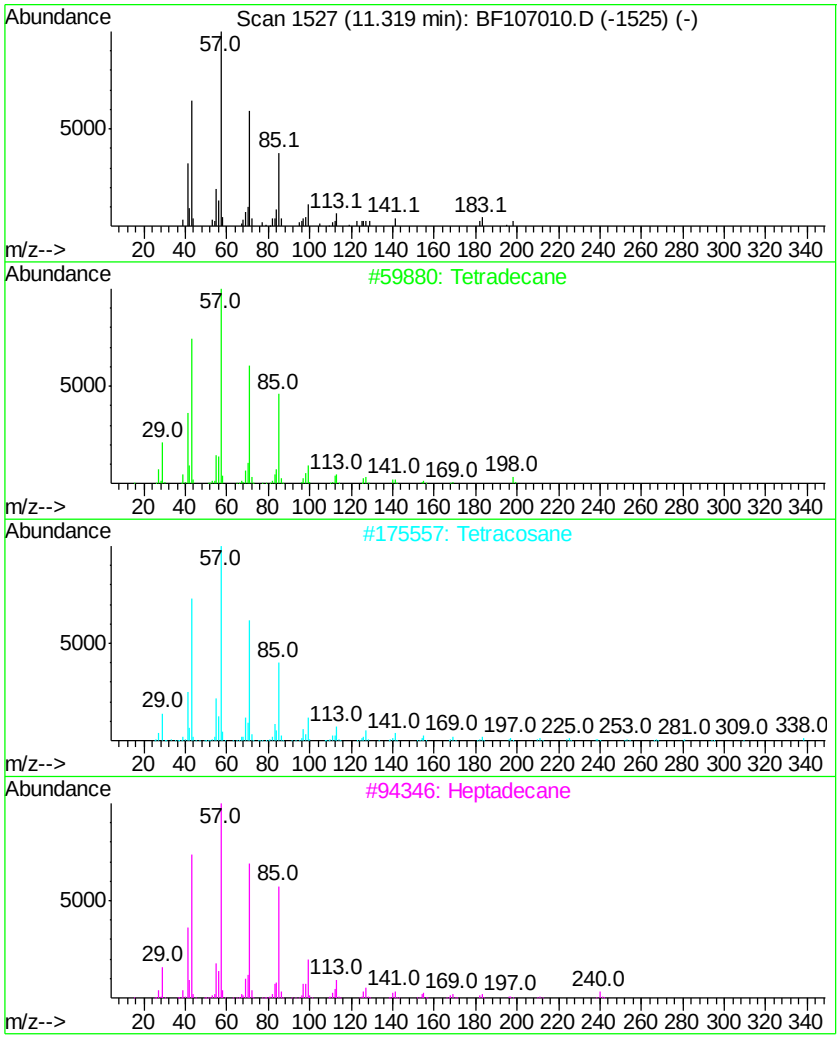
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

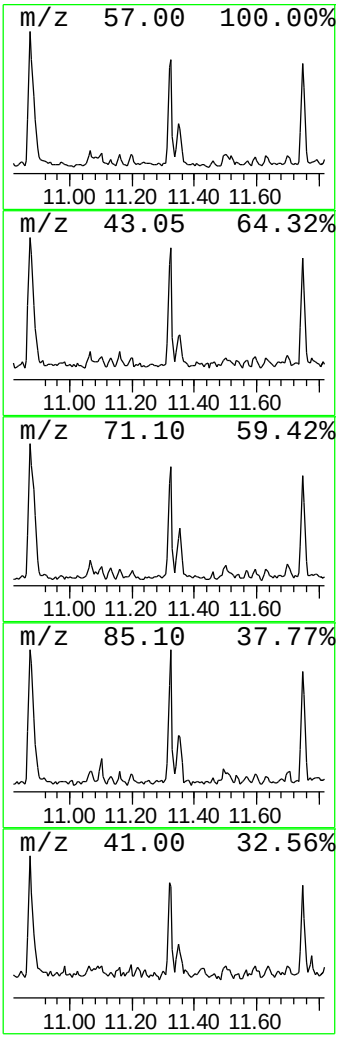
**********

Peak Number 8 Tetradecane Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.32 | 2.74 ng | 59587 | Phenanthrene-d10 | 11.49 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Tetradecane | 198 | C14H30 | 000629-59-4 | 93 |
| 2 | Tetracosane | 338 | C24H50 | 000646-31-1 | 90 |
| 3 | Heptadecane | 240 | C17H36 | 000629-78-7 | 87 |
| 4 | Octadecane | 254 | C18H38 | 000593-45-3 | 87 |
| 5 | Heneicosane | 296 | C21H44 | 000629-94-7 | 87 |



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF063018\
Data File : BF107010.D
Acq On : 30 Jun 2018 13:16
Operator : JU/SJ
Sample : J3248-09 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** EO-03-062818-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

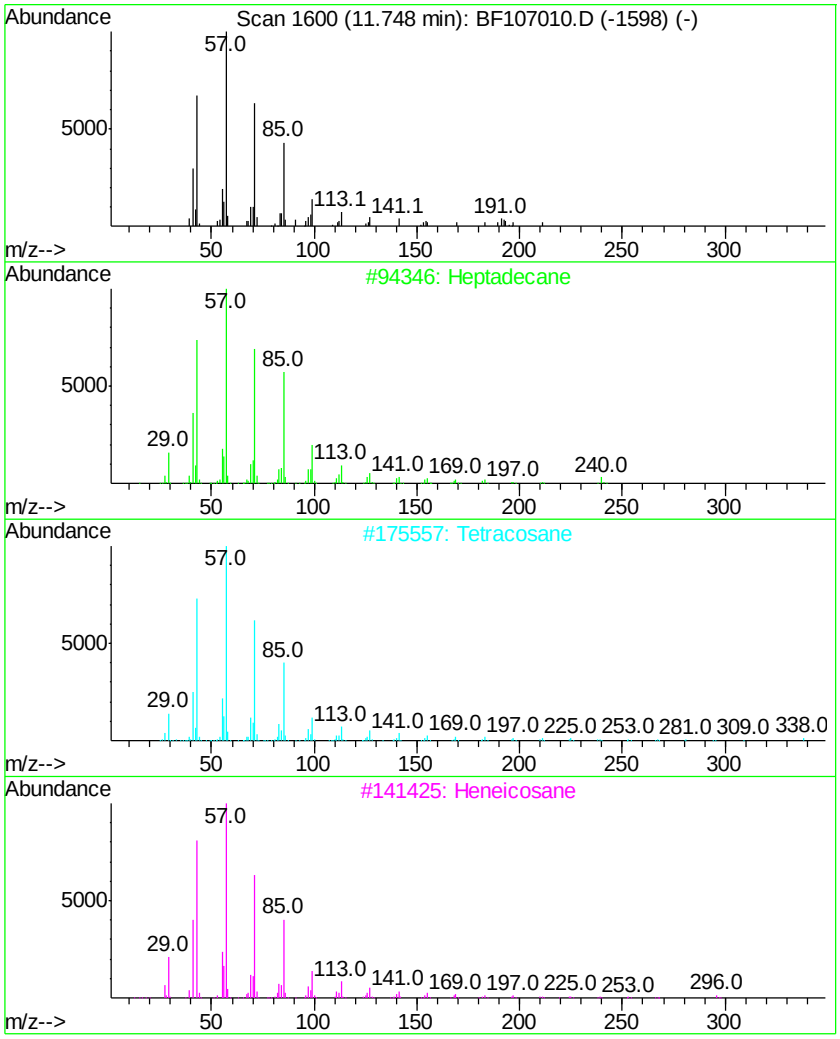
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

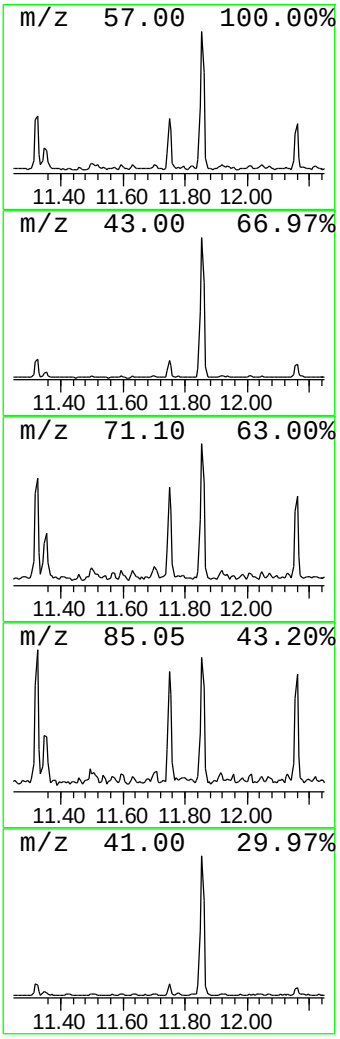
**********

Peak Number 9 Heptadecane Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.75 | 2.40 ng | 52111 | Phenanthrene-d10 | 11.49 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptadecane | 240 | C17H36 | 000629-78-7 | 90 |
| 2 | Tetracosane | 338 | C24H50 | 000646-31-1 | 90 |
| 3 | Heneicosane | 296 | C21H44 | 000629-94-7 | 90 |
| 4 | Heptadecane, 2,6,10,15-tetramethyl- | 296 | C21H44 | 054833-48-6 | 87 |
| 5 | Octadecane | 254 | C18H38 | 000593-45-3 | 87 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF063018\
Data File : BF107010.D
Acq On : 30 Jun 2018 13:16
Operator : JU/SJ
Sample : J3248-09 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** EO-03-062818-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

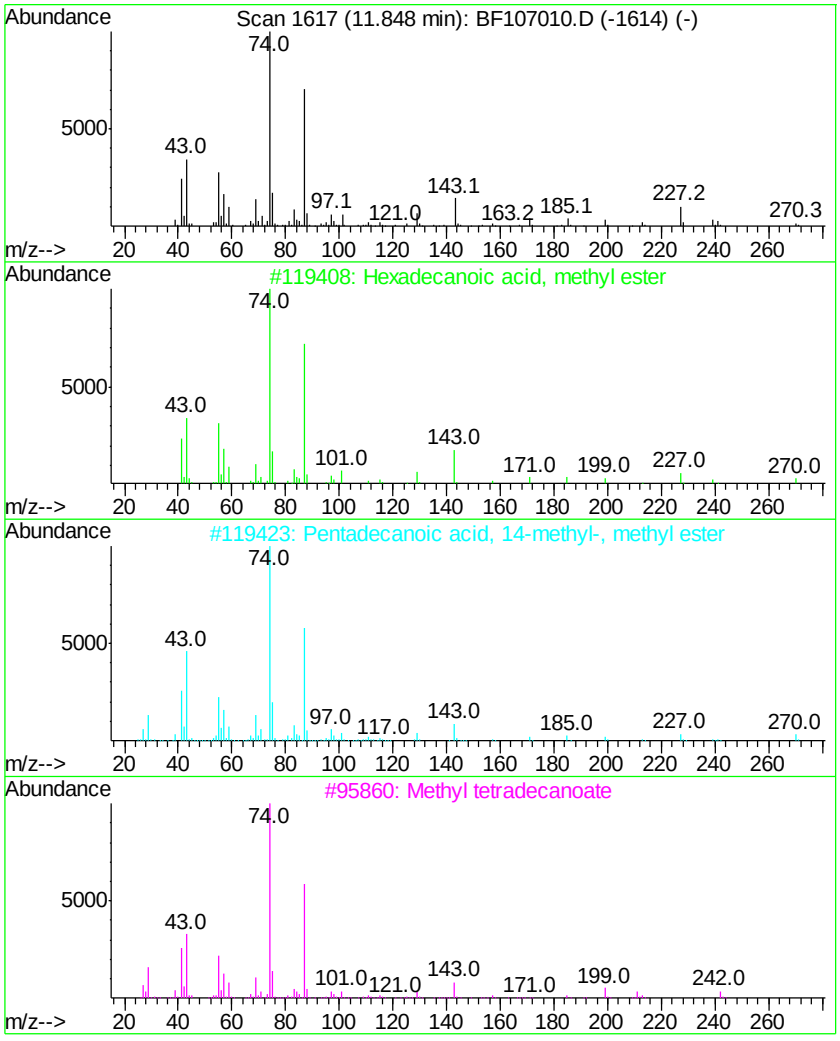
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

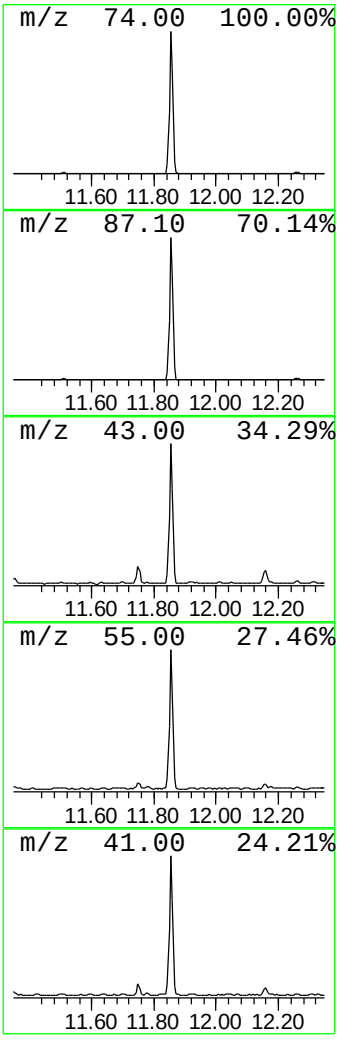
**********

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

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.85 | 44.29 ng | 962518 | Phenanthrene-d10 | 11.49 |

| 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 | Methyl tetradecanoate | 242 | C15H30O2 | 000124-10-7 | 91 |
| 4 | Tridecanoic acid, methyl ester | 228 | C14H28O2 | 001731-88-0 | 90 |
| 5 | Hexadecanoic acid, 15-methyl-, m... | 284 | C18H36O2 | 006929-04-0 | 87 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF063018\
Data File : BF107010.D
Acq On : 30 Jun 2018 13:16
Operator : JU/SJ
Sample : J3248-09 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** EO-03-062818-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

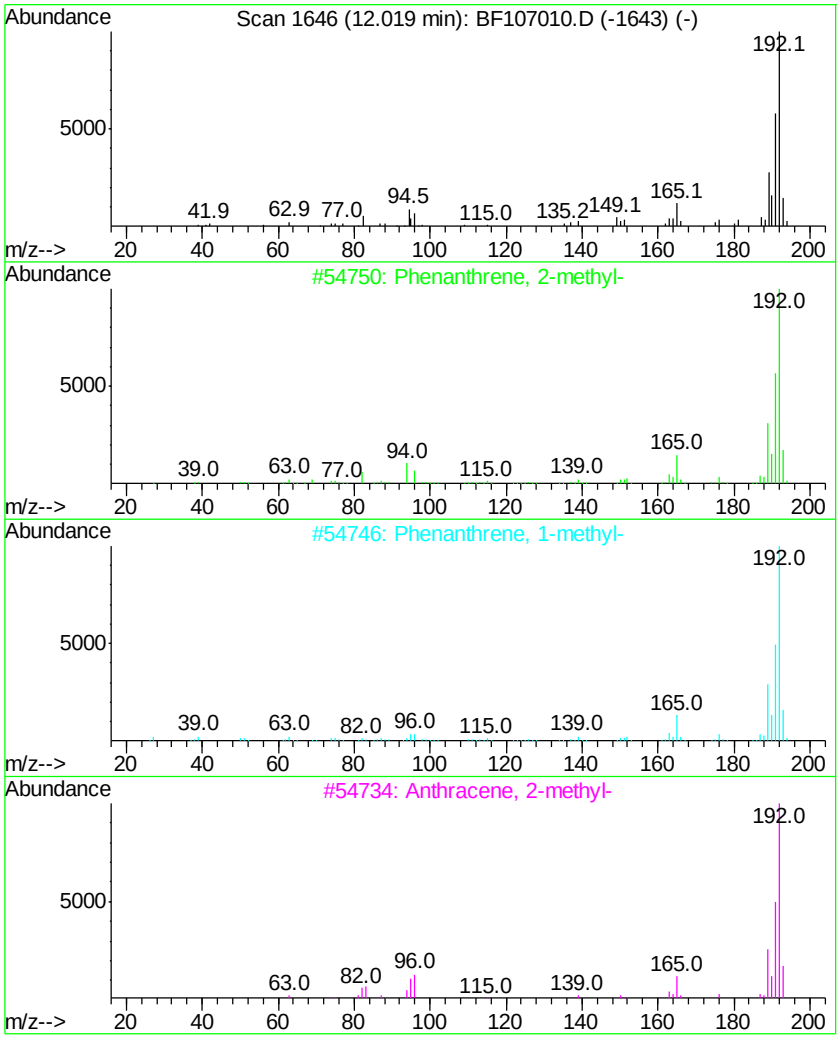
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

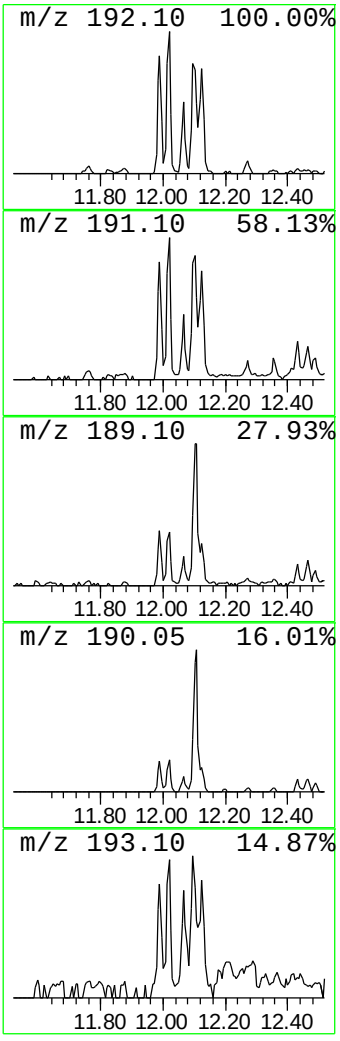
**********

Peak Number 12 Phenanthrene, 2-methyl- Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.02 | 3.09 ng | 67172 | Phenanthrene-d10 | 11.49 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 96 |
| 2 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 95 |
| 3 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 93 |
| 4 | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 91 |
| 5 | Anthracene, 9-methyl- | 192 | C15H12 | 000779-02-2 | 90 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF063018\
Data File : BF107010.D
Acq On : 30 Jun 2018 13:16
Operator : JU/SJ
Sample : J3248-09 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** EO-03-062818-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

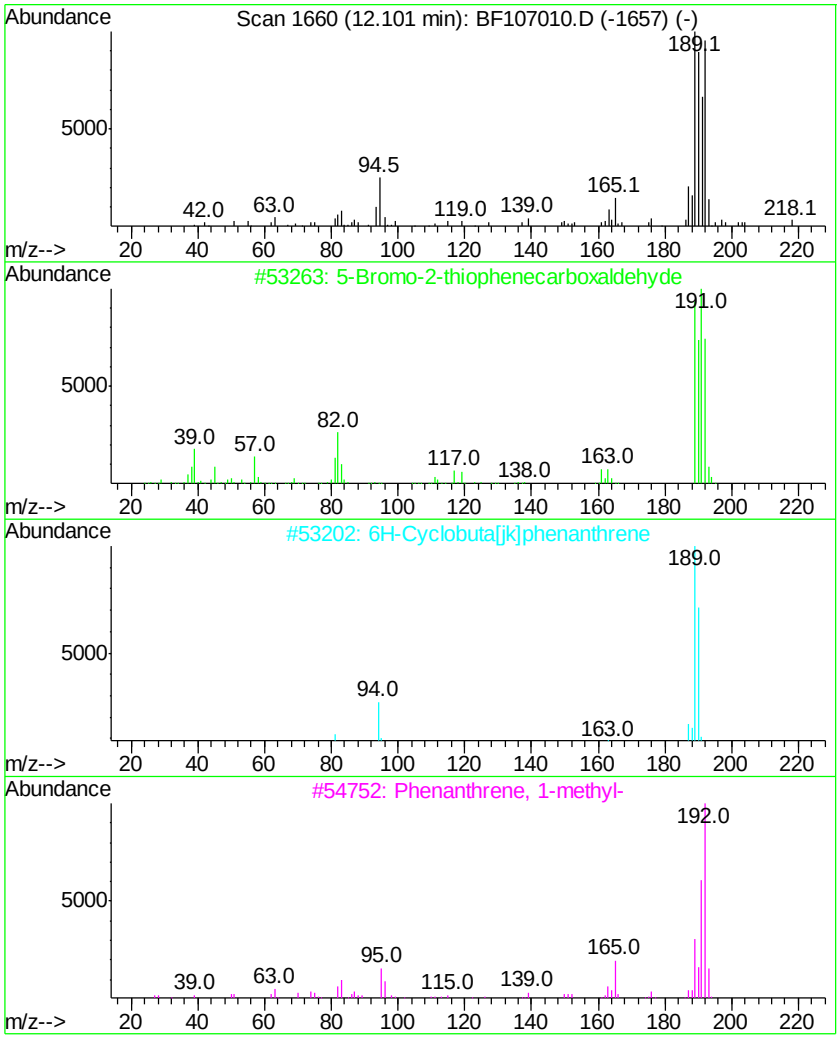
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

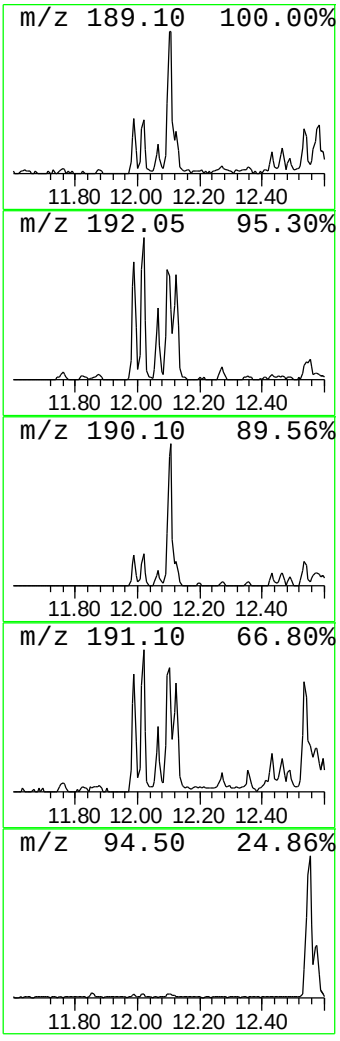
**********

Peak Number 13 5-Bromo-2-thiophenecarboxal... Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.10 | 4.85 ng | 105391 | Phenanthrene-d10 | 11.49 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 5-Bromo-2-thiophenecarboxaldehyde | 190 | C5H3BrOS | 004701-17-1 | 53 |
| 2 | 6H-Cyclobuta[jk]phenanthrene | 190 | C15H10 | 083469-43-6 | 49 |
| 3 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 42 |
| 4 | Benzene, 1,1'-(1,2-propadienylid... | 192 | C15H12 | 014251-57-1 | 38 |
| 5 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 35 |



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF063018\
Data File : BF107010.D
Acq On : 30 Jun 2018 13:16
Operator : JU/SJ
Sample : J3248-09 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** EO-03-062818-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

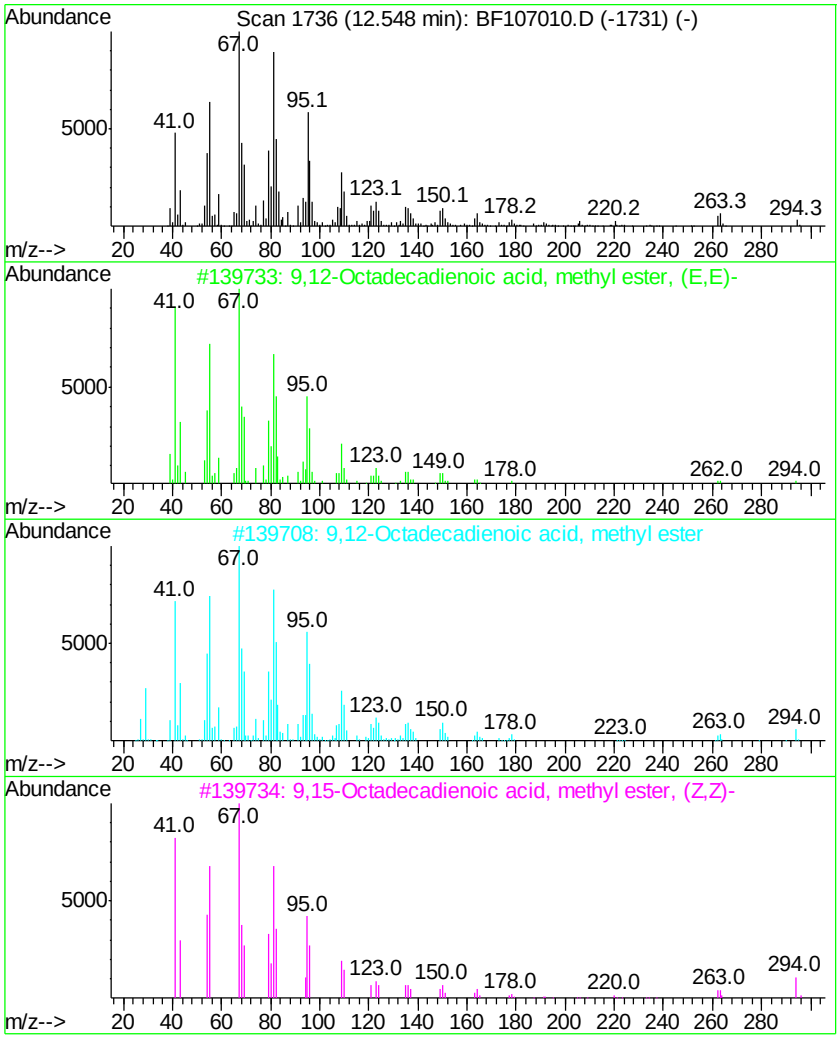
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

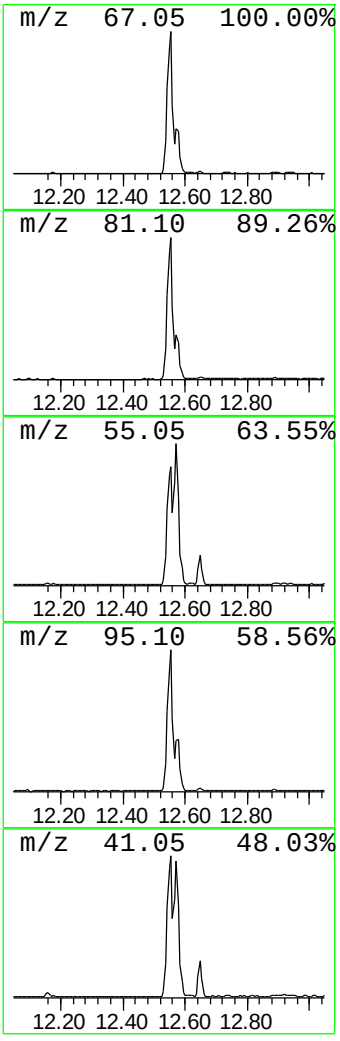
**********

Peak Number 14 9,12-Octadecadienoic acid, ... Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.55 | 145.52 ng | 3162100 | Phenanthrene-d10 | 11.49 |

| 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, methy... | 294 | C19H34O2 | 002462-85-3 | 99 |
| 3 | 9,15-Octadecadienoic acid, methy... | 294 | C19H34O2 | 017309-05-6 | 99 |
| 4 | Methyl 9-cis,11-trans-octadecadi... | 294 | C19H34O2 | 1000336-44-0 | 99 |
| 5 | 8,11-Octadecadienoic acid, methy... | 294 | C19H34O2 | 056599-58-7 | 98 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF063018\
Data File : BF107010.D
Acq On : 30 Jun 2018 13:16
Operator : JU/SJ
Sample : J3248-09 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** EO-03-062818-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

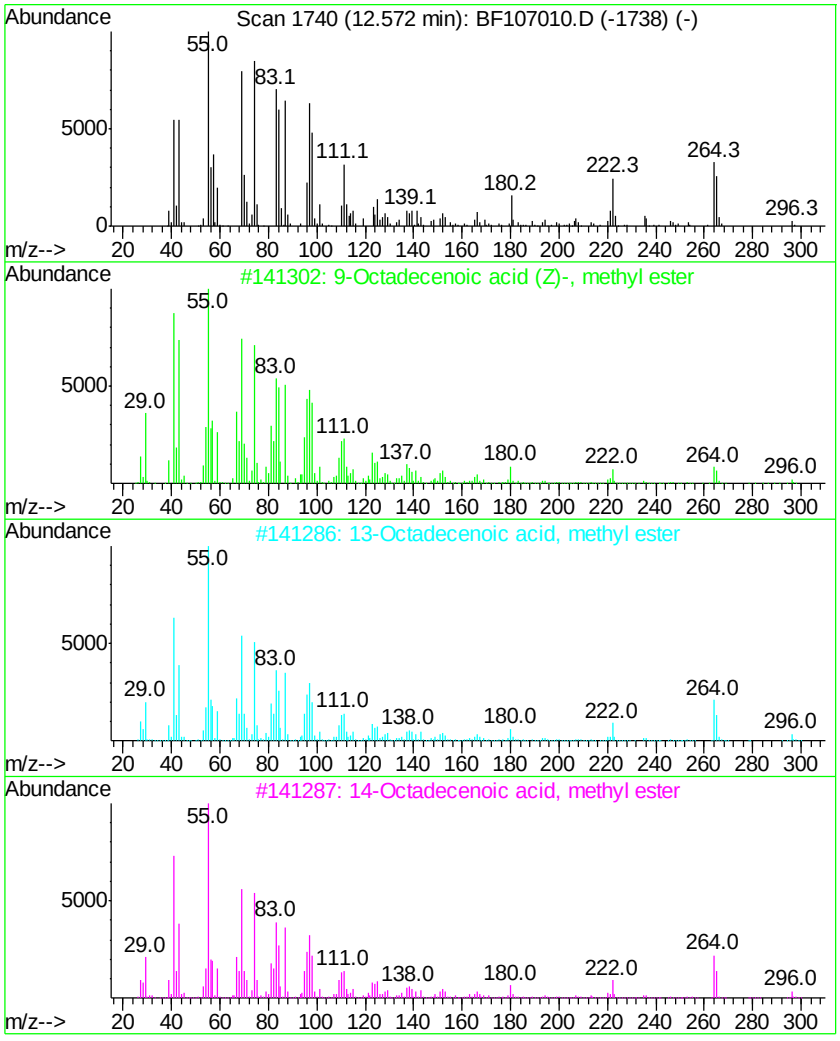
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

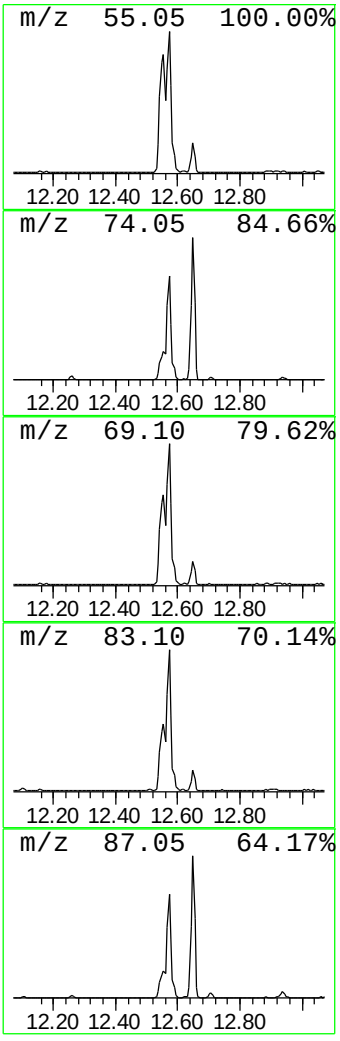
**********

Peak Number 15 9-Octadecenoic acid (Z)-, m... Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.57 | 111.03 ng | 2412700 | Phenanthrene-d10 | 11.49 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 9-Octadecenoic acid (Z)-, methyl... | 296 | C19H36O2 | 000112-62-9 | 91 |
| 2 | 13-Octadecenoic acid, methyl ester | 296 | C19H36O2 | 056554-47-3 | 90 |
| 3 | 14-Octadecenoic acid, methyl ester | 296 | C19H36O2 | 056554-48-4 | 90 |
| 4 | 16-Octadecenoic acid, methyl ester | 296 | C19H36O2 | 056554-49-5 | 90 |
| 5 | 15-Octadecenoic acid, methyl ester | 296 | C19H36O2 | 004764-72-1 | 90 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF063018\
Data File : BF107010.D
Acq On : 30 Jun 2018 13:16
Operator : JU/SJ
Sample : J3248-09 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** EO-03-062818-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

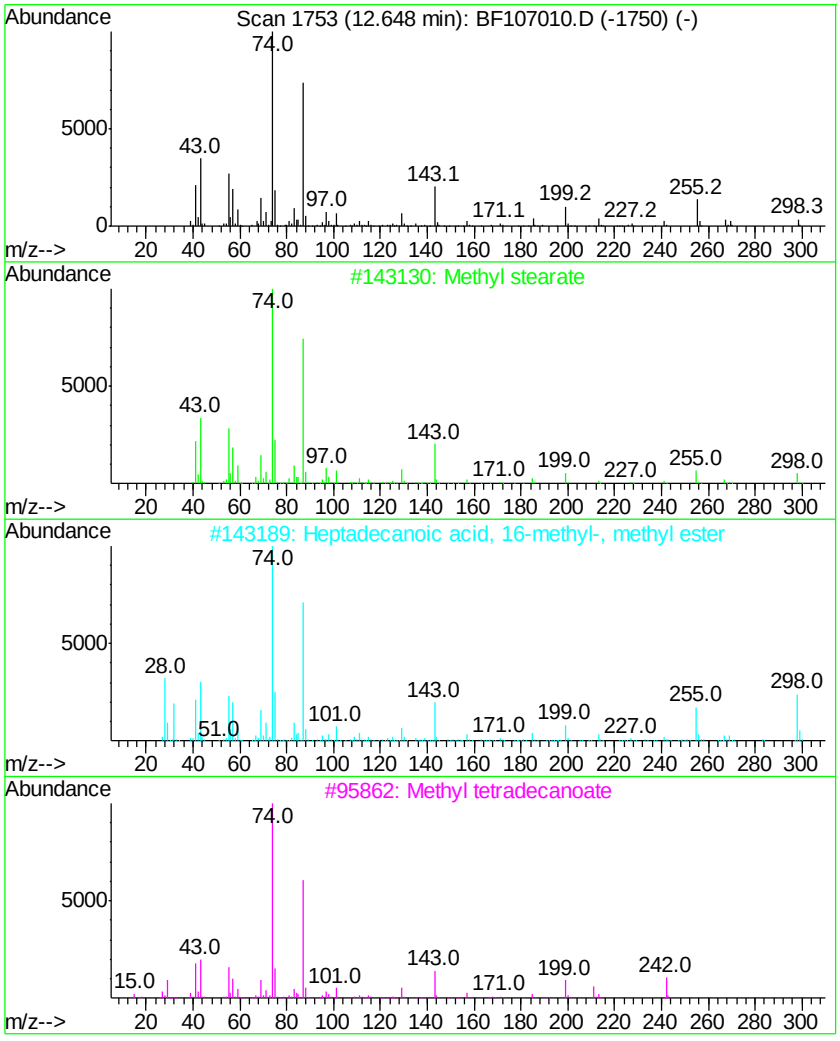
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

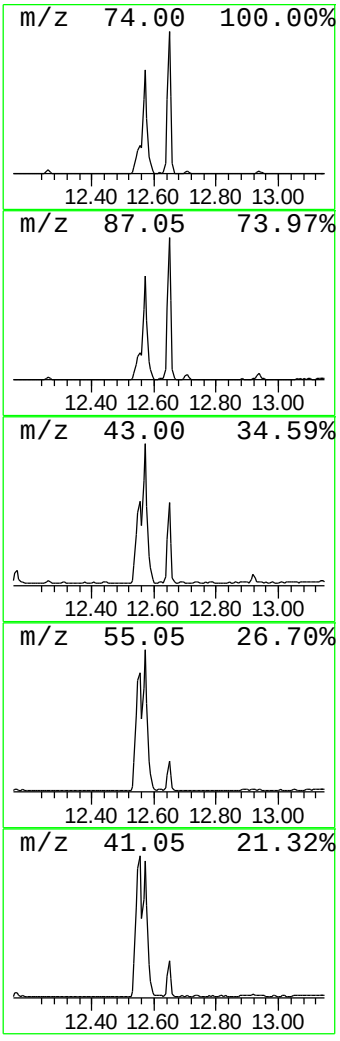
**********

Peak Number 16 Methyl stearate Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.65 | 26.86 ng | 583705 | Phenanthrene-d10 | 11.49 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Methyl stearate | 298 | C19H38O2 | 000112-61-8 | 97 |
| 2 | Heptadecanoic acid, 16-methyl-, ... | 298 | C19H38O2 | 005129-61-3 | 92 |
| 3 | Methyl tetradecanoate | 242 | C15H30O2 | 000124-10-7 | 87 |
| 4 | Heptadecanoic acid, 15-methyl-, ... | 298 | C19H38O2 | 054833-55-5 | 86 |
| 5 | Pentadecanoic acid, methyl ester | 256 | C16H32O2 | 007132-64-1 | 83 |



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF063018\
Data File : BF107010.D
Acq On : 30 Jun 2018 13:16
Operator : JU/SJ
Sample : J3248-09 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** EO-03-062818-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

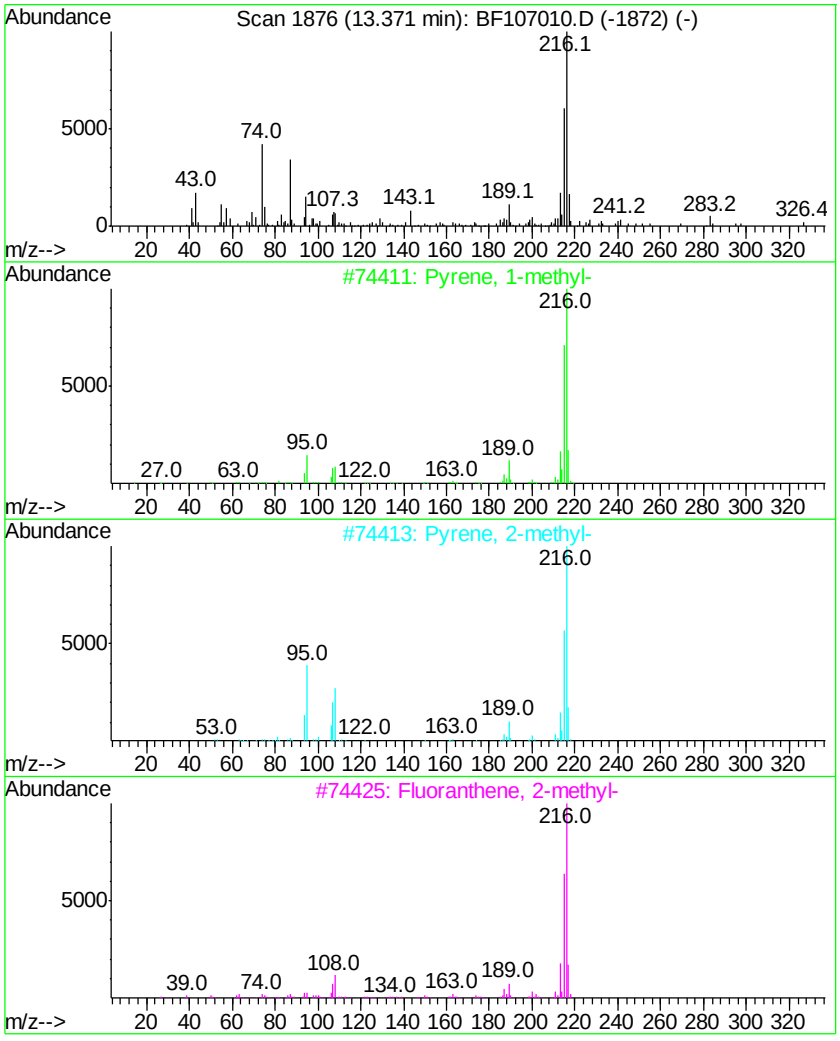
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

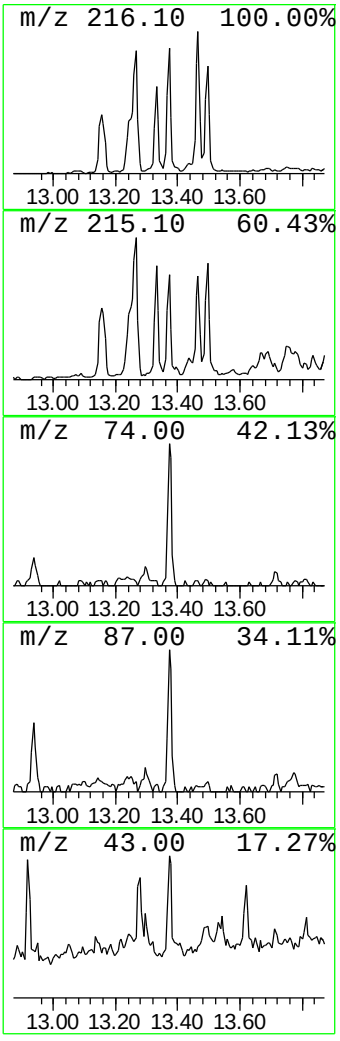
**********

Peak Number 17 Pyrene, 1-methyl- Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.37 | 3.73 ng | 144003 | Chrysene-d12 | 14.14 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 96 |
| 2 | Pyrene, 2-methyl- | 216 | C17H12 | 003442-78-2 | 92 |
| 3 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 78 |
| 4 | Pyrene, 4-methyl- | 216 | C17H12 | 003353-12-6 | 70 |
| 5 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 60 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF063018\
Data File : BF107010.D
Acq On : 30 Jun 2018 13:16
Operator : JU/SJ
Sample : J3248-09 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** EO-03-062818-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

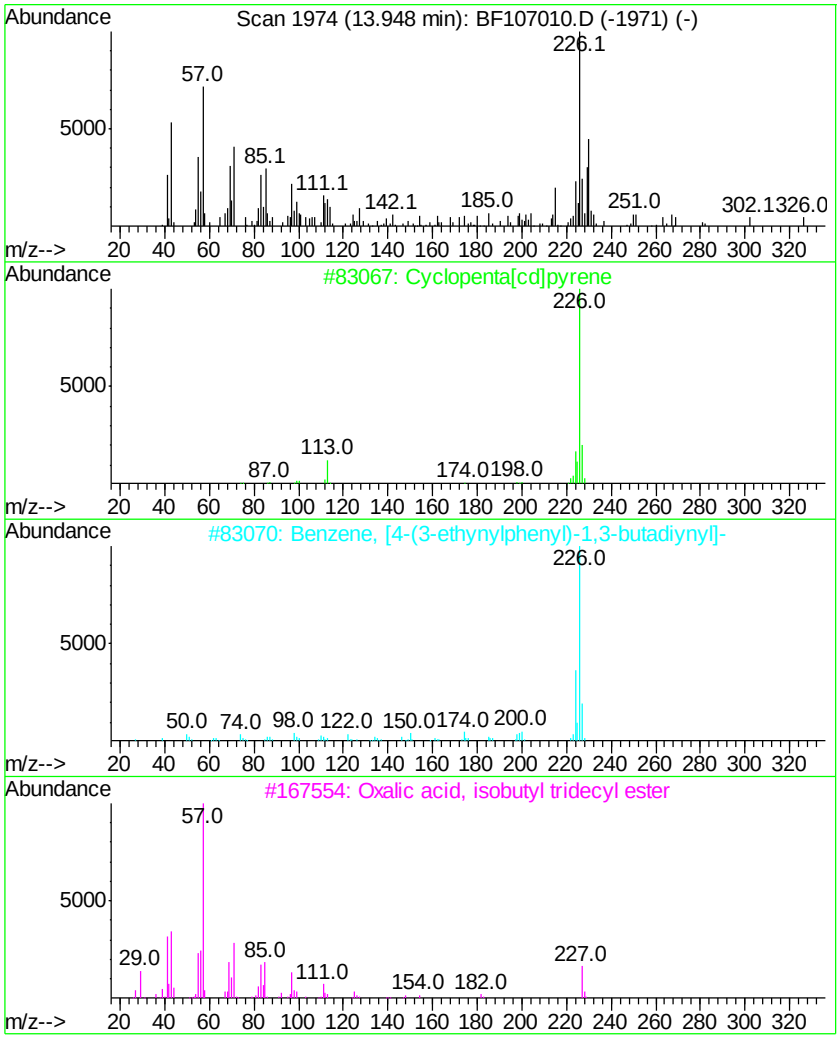
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

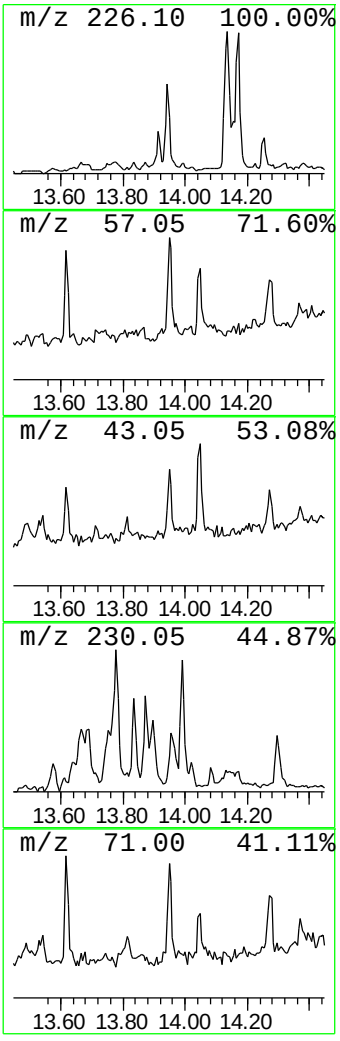
**********

Peak Number 18 unknown13.95 Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.95 | 2.39 ng | 92257 | Chrysene-d12 | 14.14 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopenta[cd]pyrene | 226 | C18H10 | 027208-37-3 | 30 |
| 2 | Benzene, [4-(3-ethynylphenyl)-1,... | 226 | C18H10 | 1000115-87-3 | 30 |
| 3 | Oxalic acid, isobutyl tridecyl e... | 328 | C19H36O4 | 1000309-37-8 | 22 |
| 4 | 9H-Xanthen-9-one, 2-methoxy- | 226 | C14H10O3 | 001214-20-6 | 22 |
| 5 | Benzenamine, 4,4'-methylenebis[2... | 226 | C15H18N2 | 000838-88-0 | 22 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF063018\
Data File : BF107010.D
Acq On : 30 Jun 2018 13:16
Operator : JU/SJ
Sample : J3248-09 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** EO-03-062818-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

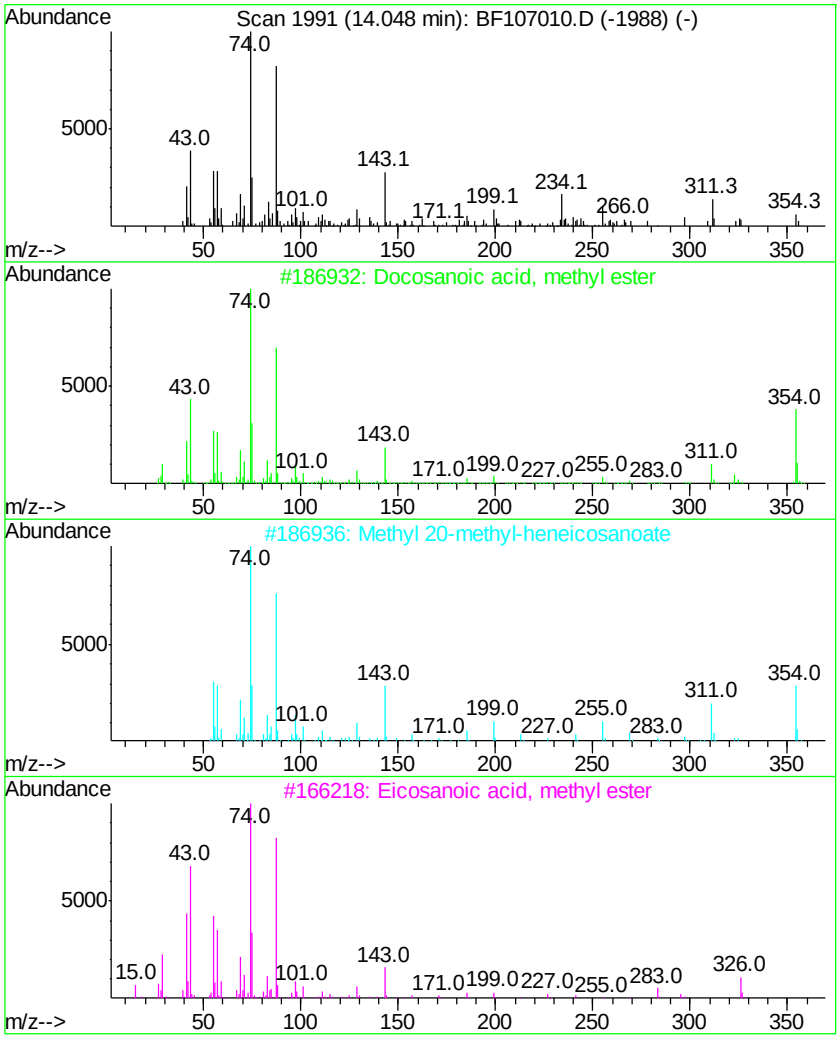
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

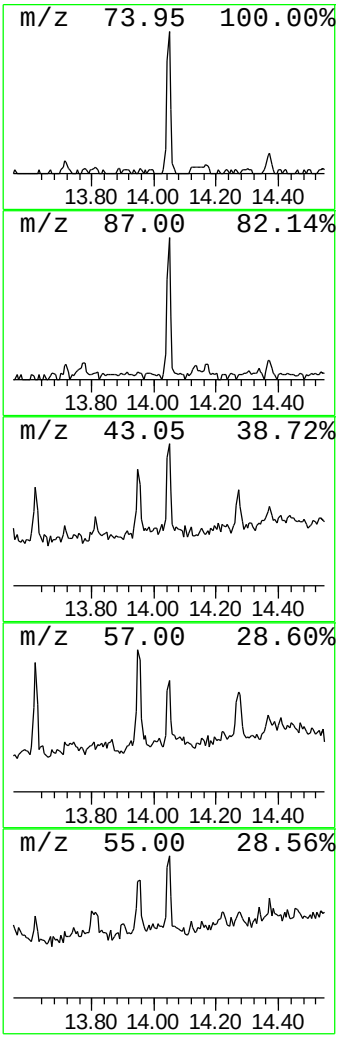
**********

Peak Number 19 Docosanoic acid, methyl ester Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.05 | 2.46 ng | 94794 | Chrysene-d12 | 14.14 |

| 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 | 96 |
| 3 | Eicosanoic acid, methyl ester | 326 | C21H42O2 | 001120-28-1 | 95 |
| 4 | Nonadecanoic acid, methyl ester | 312 | C20H40O2 | 001731-94-8 | 93 |
| 5 | Methyl tetradecanoate | 242 | C15H30O2 | 000124-10-7 | 90 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF063018\
Data File : BF107010.D
Acq On : 30 Jun 2018 13:16
Operator : JU/SJ
Sample : J3248-09 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** EO-03-062818-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

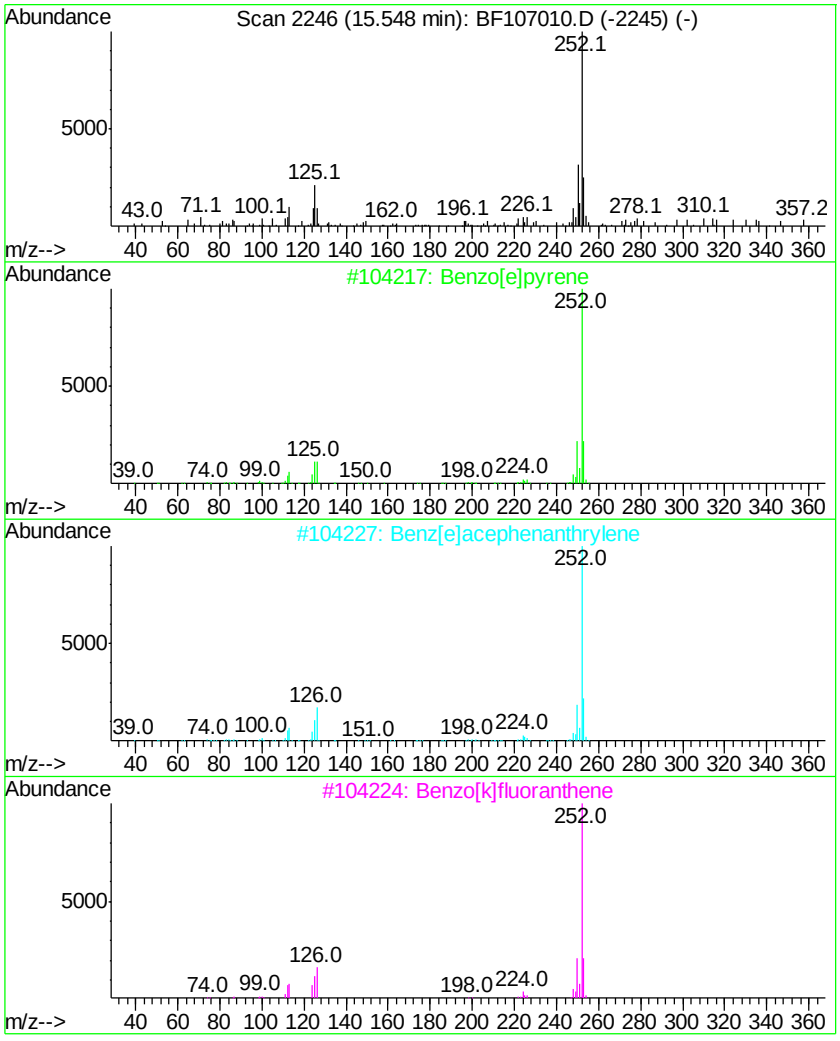
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

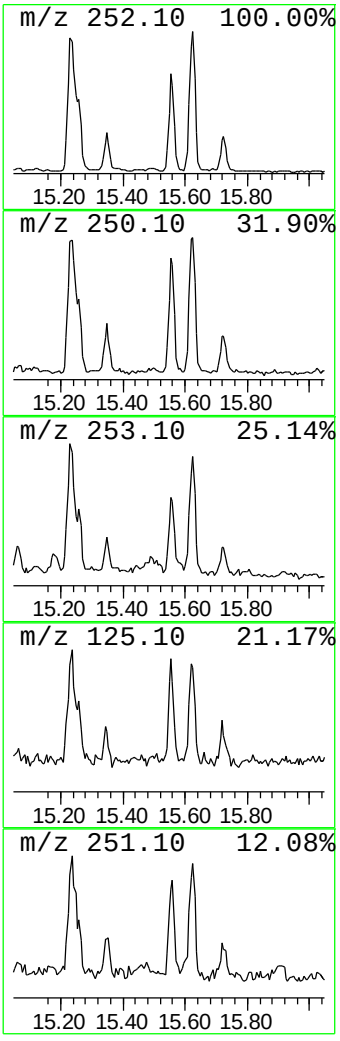
**********

Peak Number 20 Benzo[e]pyrene Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.55 | 4.28 ng | 81698 | Perylene-d12 | 15.69 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzo[e]pyrene | 252 | C20H12 | 000192-97-2 | 93 |
| 2 | Benz[e]acephenanthrylene | 252 | C20H12 | 000205-99-2 | 93 |
| 3 | Benzo[k]fluoranthene | 252 | C20H12 | 000207-08-9 | 90 |
| 4 | Benzo[a]pyrene | 252 | C20H12 | 000050-32-8 | 89 |
| 5 | Perylene | 252 | C20H12 | 000198-55-0 | 89 |



# Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF063018\
Data File : BF107010.D
Acq On : 30 Jun 2018 13:16
Operator : JU/SJ
Sample : J3248-09 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** EO-03-062818-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.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 |
| unknown6.72 | 6.72 | 17.8 | ng | 323542 | 1 | 6.95 | 362966 | 20.0 |
| Phthalic acid, me... | 9.70 | 3.1 | ng | 62496 | 3 | 10.00 | 399117 | 20.0 |
| Biphenylene | 9.85 | 2.3 | ng | 45185 | 3 | 10.00 | 399117 | 20.0 |
| Dodecane | 10.40 | 3.6 | ng | 72841 | 3 | 10.00 | 399117 | 20.0 |
| Hexadecane | 10.87 | 5.3 | ng | 115916 | 4 | 11.49 | 434595 | 20.0 |
| Tetradecane | 11.32 | 2.7 | ng | 59587 | 4 | 11.49 | 434595 | 20.0 |
| Heptadecane | 11.75 | 2.4 | ng | 52111 | 4 | 11.49 | 434595 | 20.0 |
| Hexadecanoic acid... | 11.85 | 44.3 | ng | 962518 | 4 | 11.49 | 434595 | 20.0 |
| Phenanthrene, 2-m... | 12.02 | 3.1 | ng | 67172 | 4 | 11.49 | 434595 | 20.0 |
| 5-Bromo-2-thiophe... | 12.10 | 4.8 | ng | 105391 | 4 | 11.49 | 434595 | 20.0 |
| 9,12-Octadecadien... | 12.55 | 145.5 | ng | 3162100 | 4 | 11.49 | 434595 | 20.0 |
| 9-Octadecenoic ac... | 12.57 | 111.0 | ng | 2412700 | 4 | 11.49 | 434595 | 20.0 |
| Methyl stearate | 12.65 | 26.9 | ng | 583705 | 4 | 11.49 | 434595 | 20.0 |
| Pyrene, 1-methyl- | 13.37 | 3.7 | ng | 144003 | 5 | 14.14 | 771552 | 20.0 |
| unknown13.95 | 13.95 | 2.4 | ng | 92257 | 5 | 14.14 | 771552 | 20.0 |
| Docosanoic acid, ... | 14.05 | 2.5 | ng | 94794 | 5 | 14.14 | 771552 | 20.0 |
| Benzo[e]pyrene | 15.55 | 4.3 | ng | 81698 | 6 | 15.69 | 381878 | 20.0 |