LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF032618\
Data File : BF103940.D
Acq On : 26 Mar 2018 22:07
Operator : JU/SJ
Sample : J1760-07 2X
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SU-04-032318-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:\HPCHEM1\BNA_F\METHODS\8270-BF031518.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 | 2.287 | 30 | 34 | 49 | rVB | 67132 | 103091 | 1.08% | 0.209% |
| 2 | 5.593 | 592 | 596 | 612 | rBV | 1793724 | 1612382 | 16.90% | 3.270% |
| 3 | 6.593 | 761 | 766 | 779 | rBV | 1769867 | 1672421 | 17.53% | 3.392% |
| 4 | 6.740 | 787 | 791 | 795 | rBV | 1985080 | 1697911 | 17.80% | 3.444% |
| 5 | 6.975 | 827 | 831 | 834 | rBV | 1034204 | 831511 | 8.72% | 1.686% |
| 6 | 7.128 | 853 | 857 | 861 | rBV | 1548996 | 1278279 | 13.40% | 2.593% |
| 7 | 7.534 | 922 | 926 | 929 | rBV | 1186090 | 982311 | 10.30% | 1.992% |
| 8 | 8.257 | 1045 | 1049 | 1051 | rBV | 1347355 | 1063278 | 11.15% | 2.157% |
| 9 | 9.069 | 1182 | 1187 | 1190 | rBV2 | 144181 | 155528 | 1.63% | 0.315% |
| 10 | 9.328 | 1227 | 1231 | 1235 | rBV | 2102517 | 1715436 | 17.98% | 3.479% |
| 11 | 9.398 | 1240 | 1243 | 1246 | rVB | 156895 | 136609 | 1.43% | 0.277% |
| 12 | 9.586 | 1272 | 1275 | 1281 | rVB5 | 83099 | 124603 | 1.31% | 0.253% |
| 13 | 9.669 | 1281 | 1289 | 1291 | rBV2 | 139034 | 206468 | 2.16% | 0.419% |
| 14 | 9.716 | 1295 | 1297 | 1302 | rVV | 201002 | 239801 | 2.51% | 0.486% |
| 15 | 9.786 | 1305 | 1309 | 1314 | rVB3 | 87855 | 118579 | 1.24% | 0.241% |
| 16 | 9.875 | 1320 | 1324 | 1327 | rBV2 | 127407 | 121921 | 1.28% | 0.247% |
| 17 | 9.928 | 1330 | 1333 | 1337 | rVB | 284315 | 220767 | 2.31% | 0.448% |
| 18 | 10.016 | 1345 | 1348 | 1351 | rVV | 1358835 | 1090689 | 11.43% | 2.212% |
| 19 | 10.045 | 1351 | 1353 | 1356 | rVB | 169551 | 140081 | 1.47% | 0.284% |
| 20 | 10.216 | 1379 | 1382 | 1385 | rVB2 | 126993 | 120522 | 1.26% | 0.244% |
| 21 | 10.251 | 1385 | 1388 | 1392 | rVB3 | 112126 | 105033 | 1.10% | 0.213% |
| 22 | 10.328 | 1397 | 1401 | 1404 | rBV3 | 95181 | 118762 | 1.25% | 0.241% |
| 23 | 10.428 | 1412 | 1418 | 1421 | rBV | 383369 | 352363 | 3.69% | 0.715% |
| 24 | 10.563 | 1438 | 1441 | 1448 | rVB | 217990 | 223265 | 2.34% | 0.453% |
| 25 | 10.645 | 1451 | 1455 | 1458 | rBV3 | 125887 | 162393 | 1.70% | 0.329% |
| 26 | 10.804 | 1479 | 1482 | 1486 | rBV | 1085176 | 993555 | 10.42% | 2.015% |
| 27 | 10.904 | 1496 | 1499 | 1508 | rVB | 363541 | 457199 | 4.79% | 0.927% |
| 28 | 11.110 | 1529 | 1534 | 1536 | rBV4 | 64320 | 112340 | 1.18% | 0.228% |
| 29 | 11.351 | 1572 | 1575 | 1578 | rBV | 316629 | 243249 | 2.55% | 0.493% |
| 30 | 11.380 | 1578 | 1580 | 1582 | rVV2 | 114033 | 106462 | 1.12% | 0.216% |
| 31 | 11.510 | 1598 | 1602 | 1604 | rBV | 1123543 | 1020793 | 10.70% | 2.070% |
| 32 | 11.533 | 1604 | 1606 | 1610 | rVV | 1372009 | 1085592 | 11.38% | 2.202% |
| 33 | 11.586 | 1612 | 1615 | 1618 | rVV | 276971 | 257106 | 2.70% | 0.521% |
| 34 | 11.780 | 1645 | 1648 | 1650 | rBV | 219067 | 173703 | 1.82% | 0.352% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF032618\
Data File : BF103940.D
Acq On : 26 Mar 2018 22:07
Operator : JU/SJ
Sample : J1760-07 2X
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SU-04-032318-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:\HPCHEM1\BNA_F\METHODS\8270-BF031518.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 11.886 | 1662 | 1666 | 1669 | rBV | 4052175 | 3604754 | 37.79% | 7.311% |
| 36 | 12.010 | 1684 | 1687 | 1690 | rBV | 290014 | 278238 | 2.92% | 0.564% |
| 37 | 12.039 | 1690 | 1692 | 1695 | rVB | 332761 | 263181 | 2.76% | 0.534% |
| 38 | 12.122 | 1703 | 1706 | 1709 | rBV2 | 271436 | 341779 | 3.58% | 0.693% |
| 39 | 12.145 | 1709 | 1710 | 1713 | rVB | 173629 | 106065 | 1.11% | 0.215% |
| 40 | 12.186 | 1714 | 1717 | 1719 | rBV | 175423 | 157803 | 1.65% | 0.320% |
| 41 | 12.586 | 1778 | 1785 | 1787 | rBV | 5502927 | 9538719 | 100.00% | 19.346% |
| 42 | 12.610 | 1787 | 1789 | 1794 | rVV2 | 5419371 | 5459900 | 57.24% | 11.074% |
| 43 | 12.651 | 1794 | 1796 | 1798 | rVV2 | 118964 | 118443 | 1.24% | 0.240% |
| 44 | 12.680 | 1798 | 1801 | 1804 | rVB | 1977860 | 1605528 | 16.83% | 3.256% |
| 45 | 12.727 | 1806 | 1809 | 1812 | rBV | 1080384 | 1016618 | 10.66% | 2.062% |
| 46 | 12.916 | 1838 | 1841 | 1843 | rBV2 | 273987 | 234249 | 2.46% | 0.475% |
| 47 | 12.963 | 1843 | 1849 | 1855 | rVB | 1125483 | 1275879 | 13.38% | 2.588% |
| 48 | 13.098 | 1868 | 1872 | 1874 | rBV | 1313355 | 1165565 | 12.22% | 2.364% |
| 49 | 13.174 | 1882 | 1885 | 1891 | rBV5 | 73012 | 159438 | 1.67% | 0.323% |
| 50 | 13.239 | 1893 | 1896 | 1898 | rBV | 309523 | 294252 | 3.08% | 0.597% |
| 51 | 13.310 | 1906 | 1908 | 1909 | rVV | 150262 | 117922 | 1.24% | 0.239% |
| 52 | 13.327 | 1909 | 1911 | 1913 | rVV2 | 196424 | 154327 | 1.62% | 0.313% |
| 53 | 13.351 | 1913 | 1915 | 1918 | rVB | 121220 | 111803 | 1.17% | 0.227% |
| 54 | 13.404 | 1920 | 1924 | 1926 | rBV2 | 230452 | 256921 | 2.69% | 0.521% |
| 55 | 13.516 | 1941 | 1943 | 1946 | rBV | 101218 | 95848 | 1.00% | 0.194% |
| 56 | 14.074 | 2035 | 2038 | 2042 | rBV2 | 175498 | 173455 | 1.82% | 0.352% |
| 57 | 14.163 | 2048 | 2053 | 2056 | rBV2 | 967961 | 1290059 | 13.52% | 2.616% |
| 58 | 14.186 | 2056 | 2057 | 2063 | rVB | 380461 | 341548 | 3.58% | 0.693% |
| 59 | 15.068 | 2203 | 2207 | 2216 | rVB | 252872 | 417218 | 4.37% | 0.846% |
| 60 | 15.251 | 2234 | 2238 | 2241 | rBV | 255713 | 409352 | 4.29% | 0.830% |
| 61 | 15.574 | 2290 | 2293 | 2297 | rVB | 183128 | 230587 | 2.42% | 0.468% |
| 62 | 15.639 | 2301 | 2304 | 2311 | rVB | 264789 | 379752 | 3.98% | 0.770% |
| 63 | 15.710 | 2312 | 2316 | 2320 | rBV | 497169 | 661857 | 6.94% | 1.342% |

Sum of corrected areas: 49305063

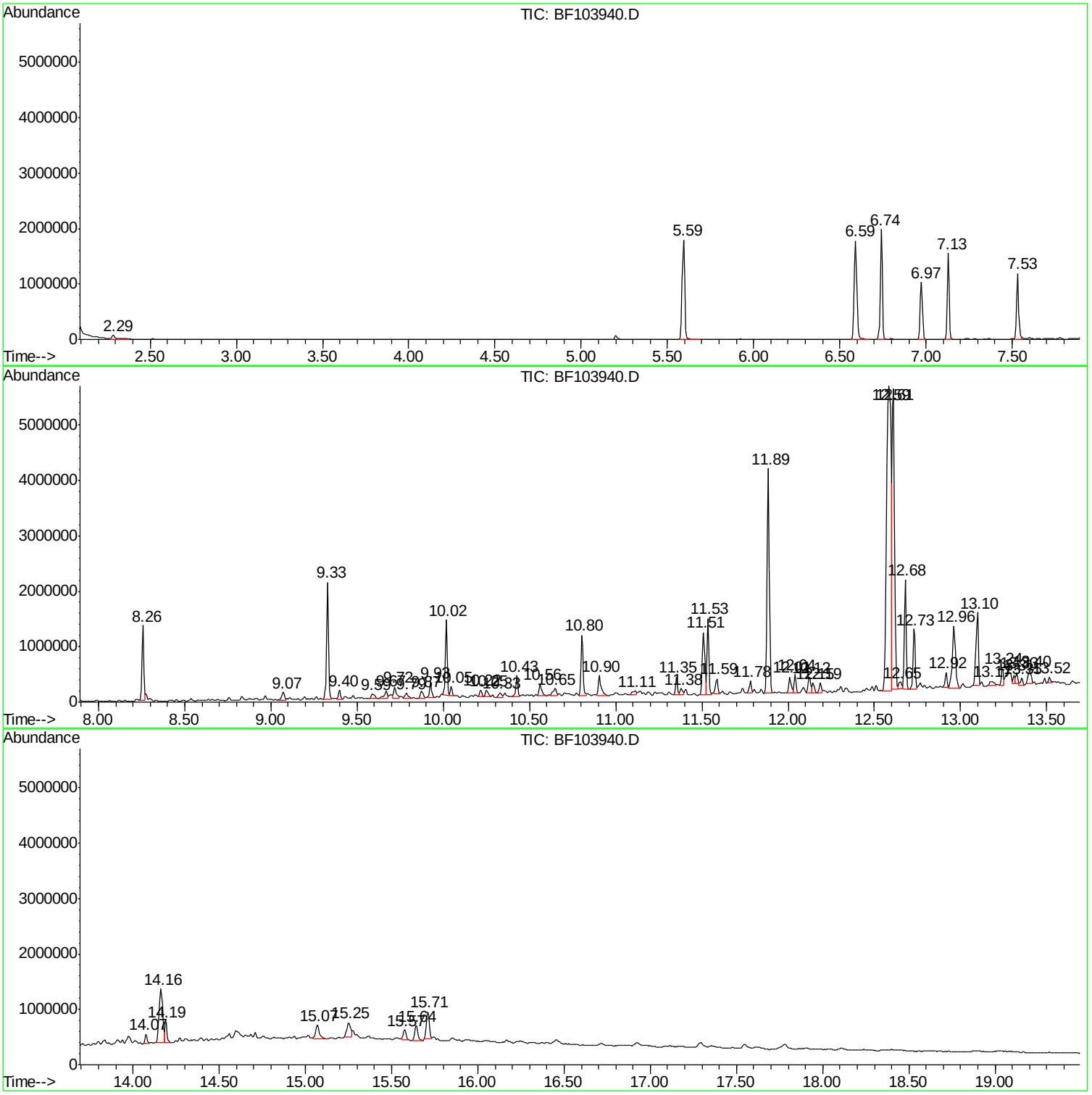
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA F\DATA\BF032618\
Data File : BF103940.D
Acq On : 26 Mar 2018 22:07
Operator : JU/SJ
Sample : J1760-07 2X
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SU-04-032318-B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\HPCHEM1\BNA F\DATA\BF032618\
Data File : BF103940.D
Acq On : 26 Mar 2018 22:07
Operator : JU/SJ
Sample : J1760-07 2X
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SU-04-032318-B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

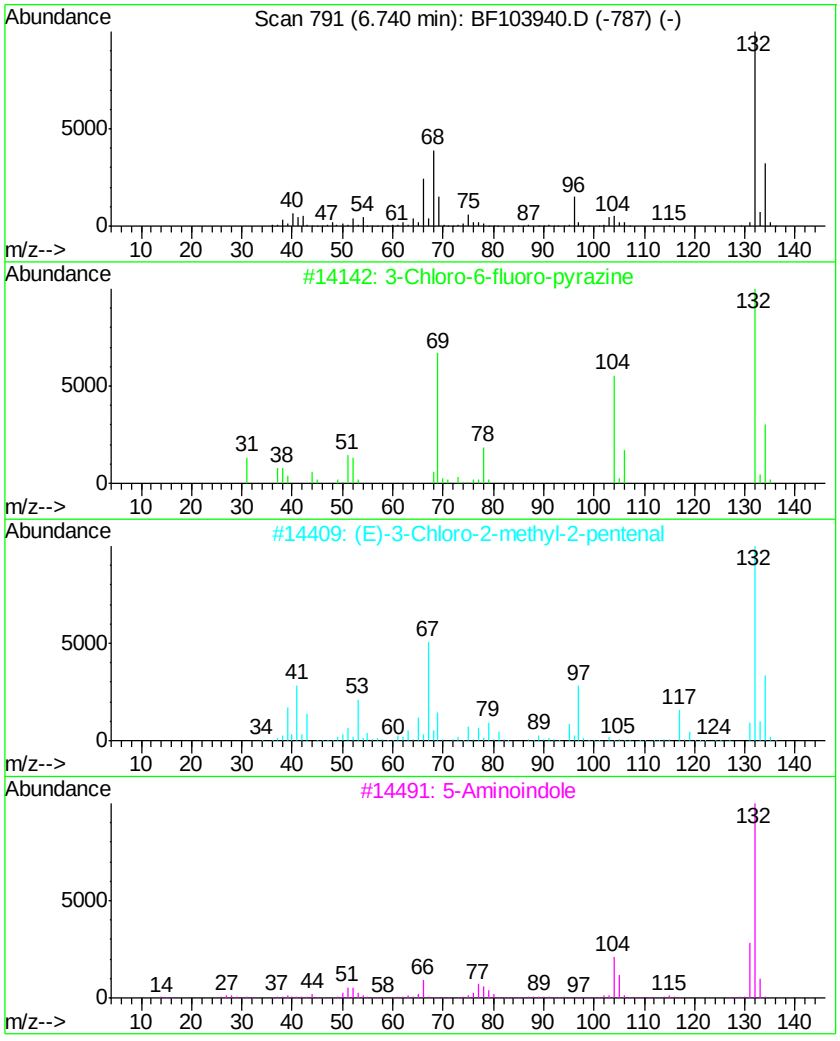
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

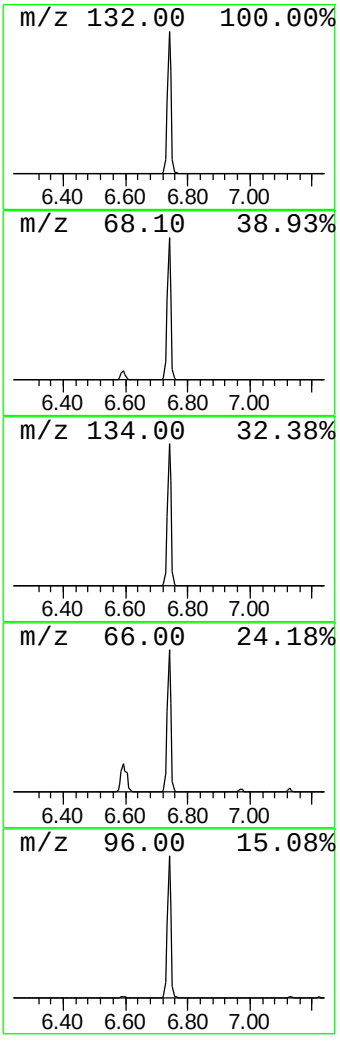
**********

Peak Number 1 unknown6.74 Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.74 | 40.84 ng | 1697910 | 1,4-Dichlorobenzene-d4 | 6.97 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Chloro-6-fluoro-pyrazine | 132 | C4H2ClFN2 | 1000146-10-7 | 27 |
| 2 | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO | 031357-76-3 | 16 |
| 3 | 5-Aminoindole | 132 | C8H8N2 | 005192-03-0 | 12 |
| 4 | Tranylcypromine-propionyl | 189 | C12H15NO | 1000123-86-3 | 10 |
| 5 | 4-Methylpyrrolo[1,2-a]pyrazine | 132 | C8H8N2 | 064608-60-2 | 9 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF032618\
Data File : BF103940.D
Acq On : 26 Mar 2018 22:07
Operator : JU/SJ
Sample : J1760-07 2X
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SU-04-032318-B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

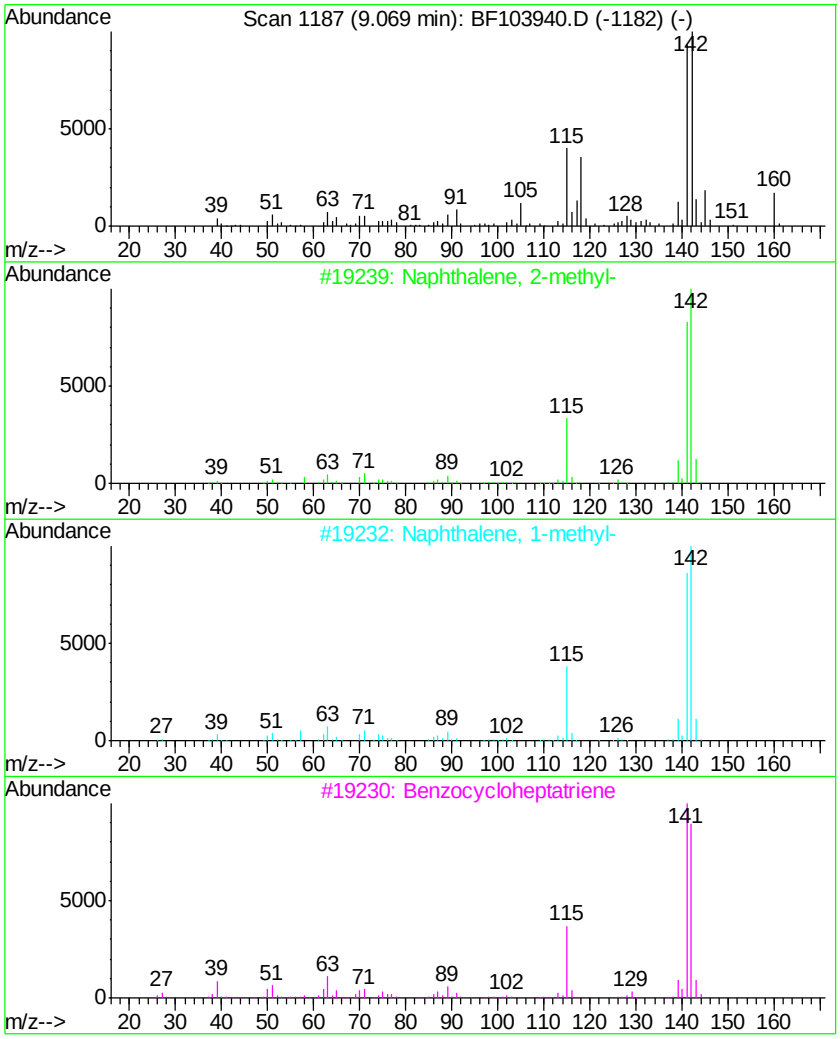
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

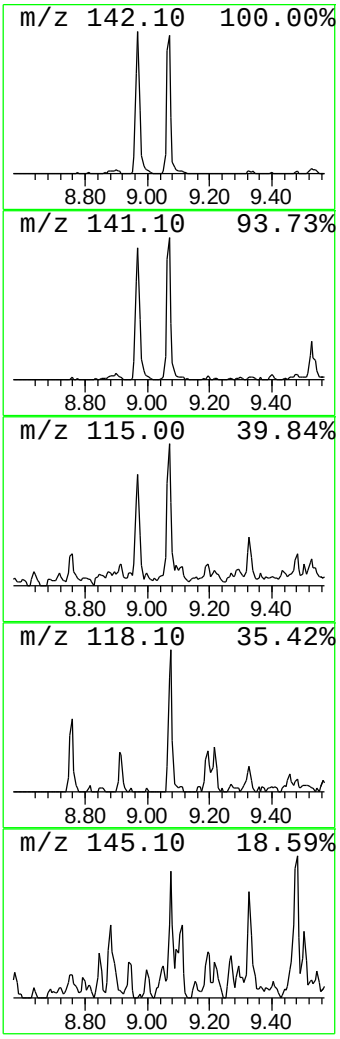
**********

Peak Number 3 Naphthalene, 2-methyl- Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.07 | 2.93 ng | 155528 | Naphthalene-d8 | 8.26 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2-methyl- | 142 | C11H10 | 000091-57-6 | 96 |
| 2 | Naphthalene, 1-methyl- | 142 | C11H10 | 000090-12-0 | 96 |
| 3 | Benzocycloheptatriene | 142 | C11H10 | 000264-09-5 | 81 |
| 4 | Bicyclo[4.4.1]undeca-1,3,5,7,9-p... | 142 | C11H10 | 002443-46-1 | 81 |
| 5 | 1,4-Methanonaphthalene, 1,4-dihy... | 142 | C11H10 | 004453-90-1 | 74 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF032618\
Data File : BF103940.D
Acq On : 26 Mar 2018 22:07
Operator : JU/SJ
Sample : J1760-07 2X
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SU-04-032318-B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031518.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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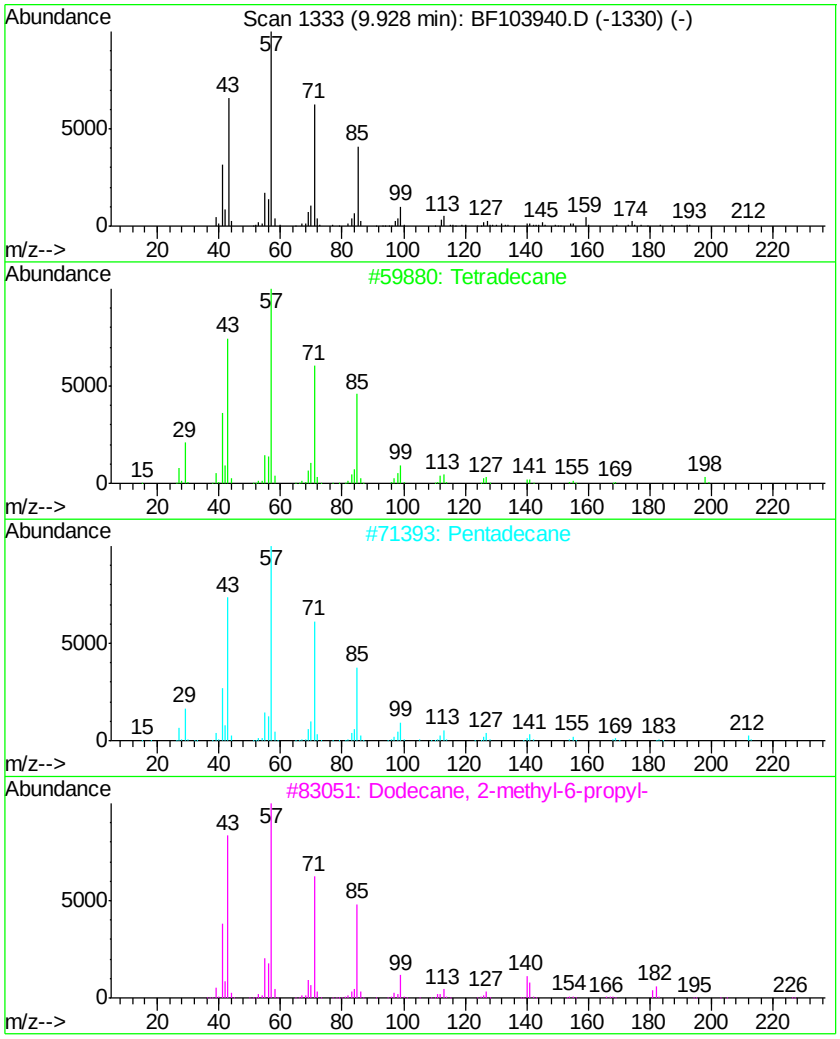
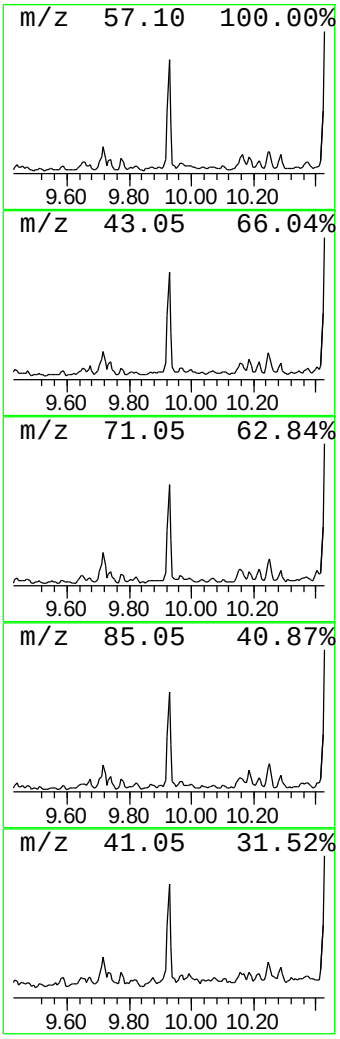
Peak Number 4 Tetradecane Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.93 | 4.05 ng | 220767 | Acenaphthene-d10 | 10.02 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Tetradecane | 198 | C14H30 | 000629-59-4 | 87 |
| 2 | Pentadecane | 212 | C15H32 | 000629-62-9 | 78 |
| 3 | Dodecane, 2-methyl-6-propyl- | 226 | C16H34 | 055045-08-4 | 78 |
| 4 | Hexadecane | 226 | C16H34 | 000544-76-3 | 72 |
| 5 | Decane, 2,4,6-trimethyl- | 184 | C13H28 | 062108-27-4 | 72 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF032618\
Data File : BF103940.D
Acq On : 26 Mar 2018 22:07
Operator : JU/SJ
Sample : J1760-07 2X
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SU-04-032318-B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

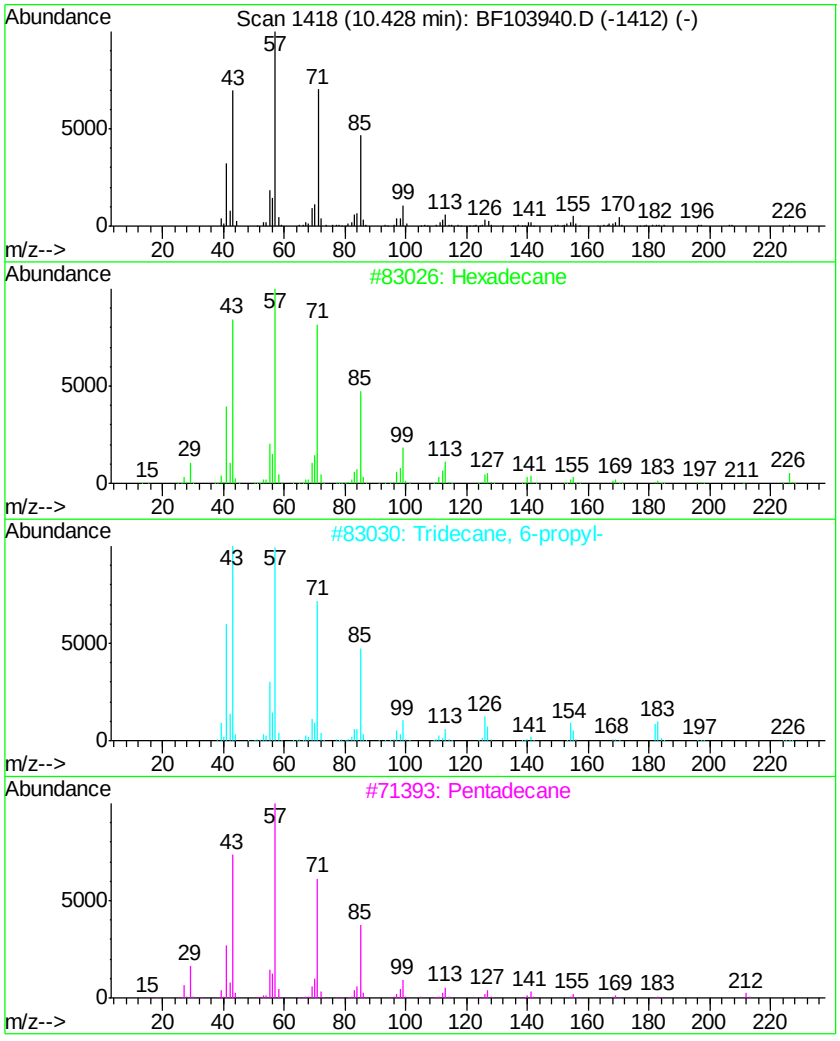
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

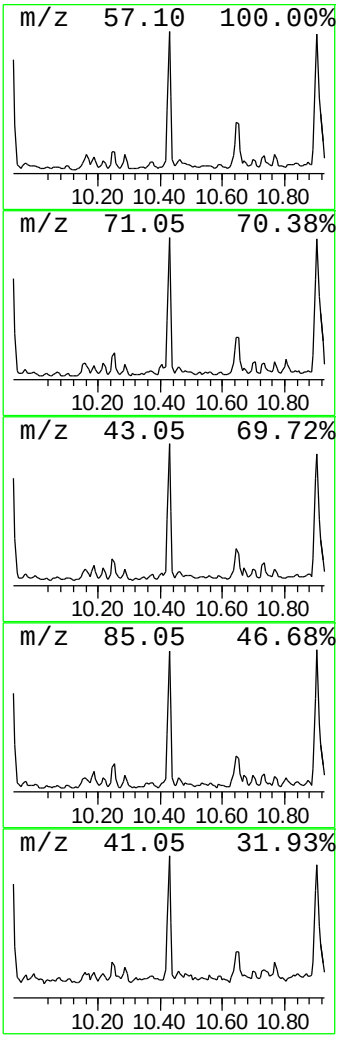
**********

Peak Number 5 Hexadecane Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.43 | 6.46 ng | 352363 | Acenaphthene-d10 | 10.02 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexadecane | 226 | C16H34 | 000544-76-3 | 93 |
| 2 | Tridecane, 6-propyl- | 226 | C16H34 | 055045-10-8 | 86 |
| 3 | Pentadecane | 212 | C15H32 | 000629-62-9 | 86 |
| 4 | Dodecane | 170 | C12H26 | 000112-40-3 | 83 |
| 5 | Tetradecane | 198 | C14H30 | 000629-59-4 | 80 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF032618\
Data File : BF103940.D
Acq On : 26 Mar 2018 22:07
Operator : JU/SJ
Sample : J1760-07 2X
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SU-04-032318-B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031518.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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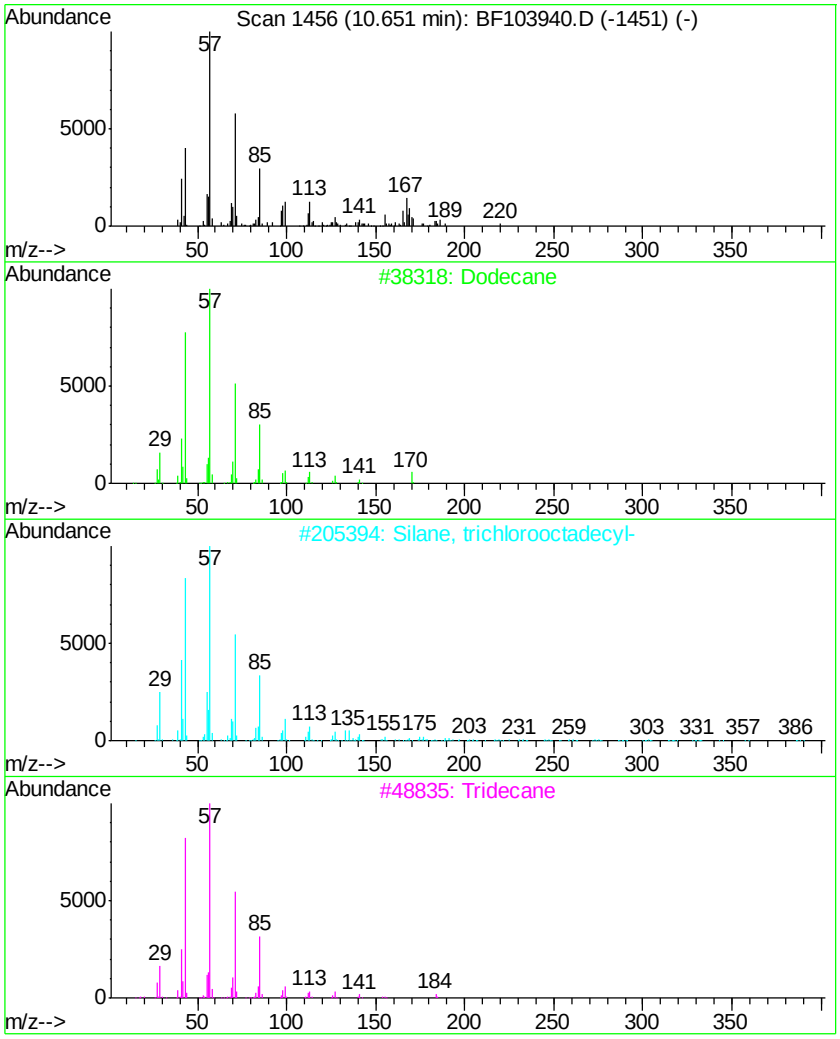
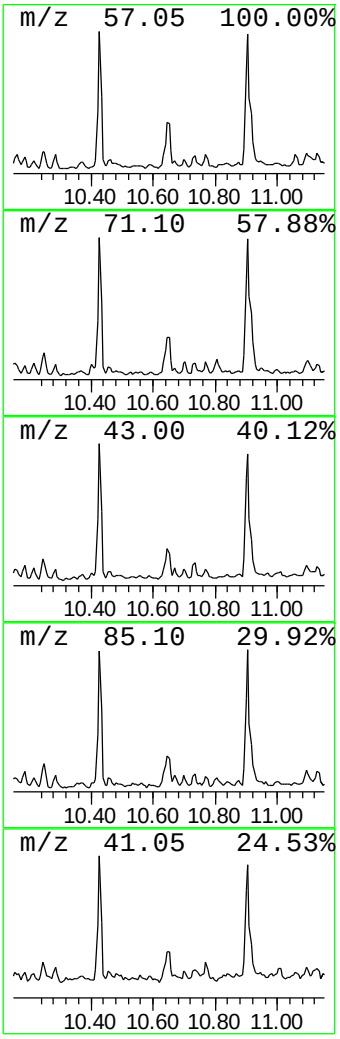
Peak Number 6 Dodecane Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.65 | 2.98 ng | 162393 | Acenaphthene-d10 | 10.02 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Dodecane | 170 | C12H26 | 000112-40-3 | 90 |
| 2 | Silane, trichlorooctadecyl- | 386 | C18H37Cl3Si | 000112-04-9 | 72 |
| 3 | Tridecane | 184 | C13H28 | 000629-50-5 | 70 |
| 4 | Dodecane, 1-iodo- | 296 | C12H25I | 004292-19-7 | 64 |
| 5 | Eicosane | 282 | C20H42 | 000112-95-8 | 64 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF032618\
Data File : BF103940.D
Acq On : 26 Mar 2018 22:07
Operator : JU/SJ
Sample : J1760-07 2X
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SU-04-032318-B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

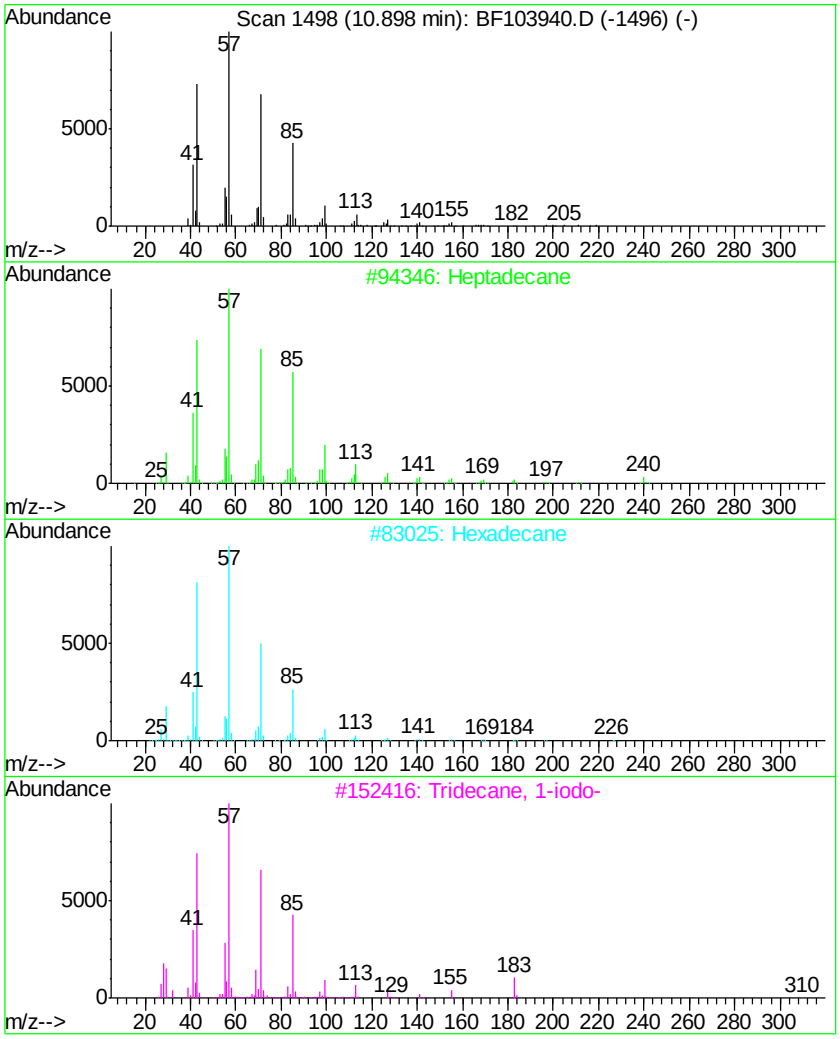
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

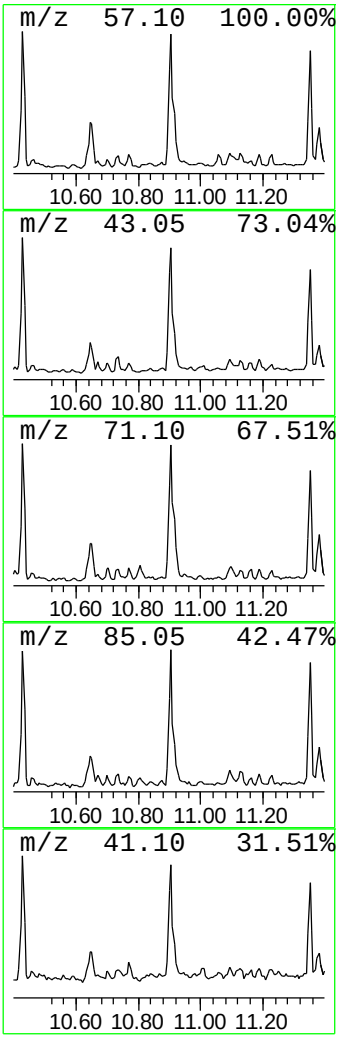
**********

Peak Number 7 Heptadecane Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.90 | 8.96 ng | 457199 | Phenanthrene-d10 | 11.51 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptadecane | 240 | C17H36 | 000629-78-7 | 91 |
| 2 | Hexadecane | 226 | C16H34 | 000544-76-3 | 90 |
| 3 | Tridecane, 1-iodo- | 310 | C13H27I | 035599-77-0 | 90 |
| 4 | Heptacosane, 1-chloro- | 414 | C27H55Cl | 062016-79-9 | 86 |
| 5 | Sulfurous acid, 2-propyl tetrade... | 320 | C17H36O3S | 1000309-12-5 | 86 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF032618\
Data File : BF103940.D
Acq On : 26 Mar 2018 22:07
Operator : JU/SJ
Sample : J1760-07 2X
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SU-04-032318-B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

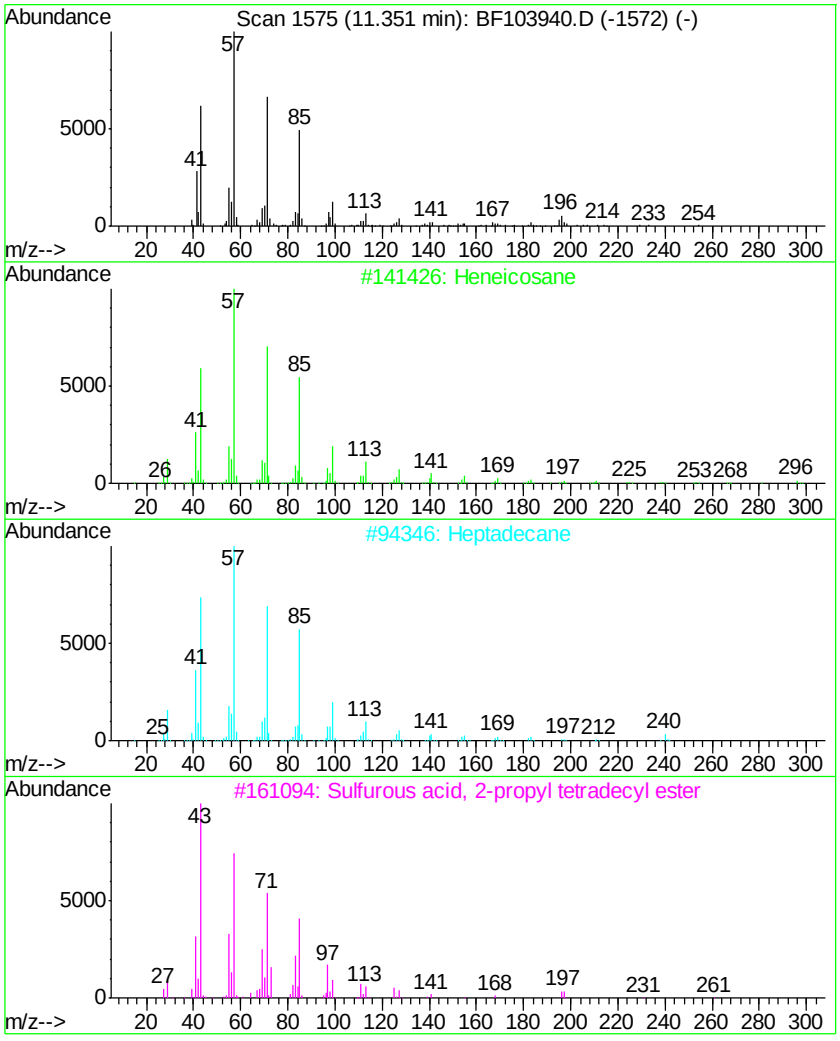
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

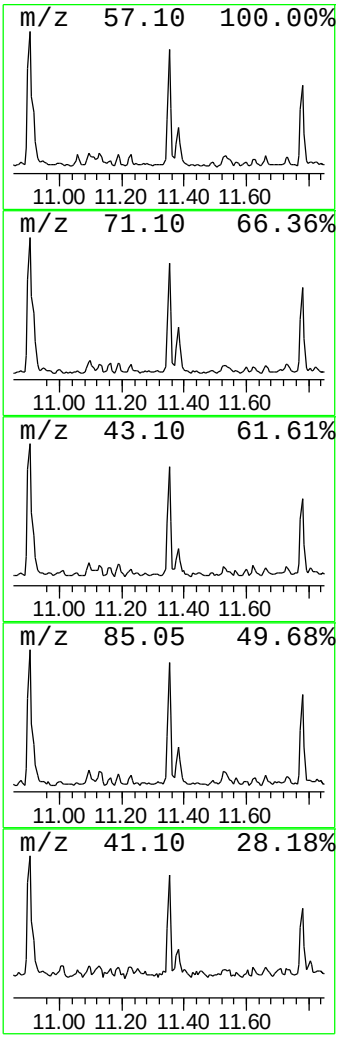
**********

Peak Number 8 Heneicosane Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.35 | 4.77 ng | 243249 | Phenanthrene-d10 | 11.51 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heneicosane | 296 | C21H44 | 000629-94-7 | 91 |
| 2 | Heptadecane | 240 | C17H36 | 000629-78-7 | 91 |
| 3 | Sulfurous acid, 2-propyl tetrade... | 320 | C17H36O3S | 1000309-12-5 | 90 |
| 4 | Hexadecane | 226 | C16H34 | 000544-76-3 | 86 |
| 5 | Dodecane, 1-iodo- | 296 | C12H25I | 004292-19-7 | 80 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF032618\
Data File : BF103940.D
Acq On : 26 Mar 2018 22:07
Operator : JU/SJ
Sample : J1760-07 2X
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SU-04-032318-B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

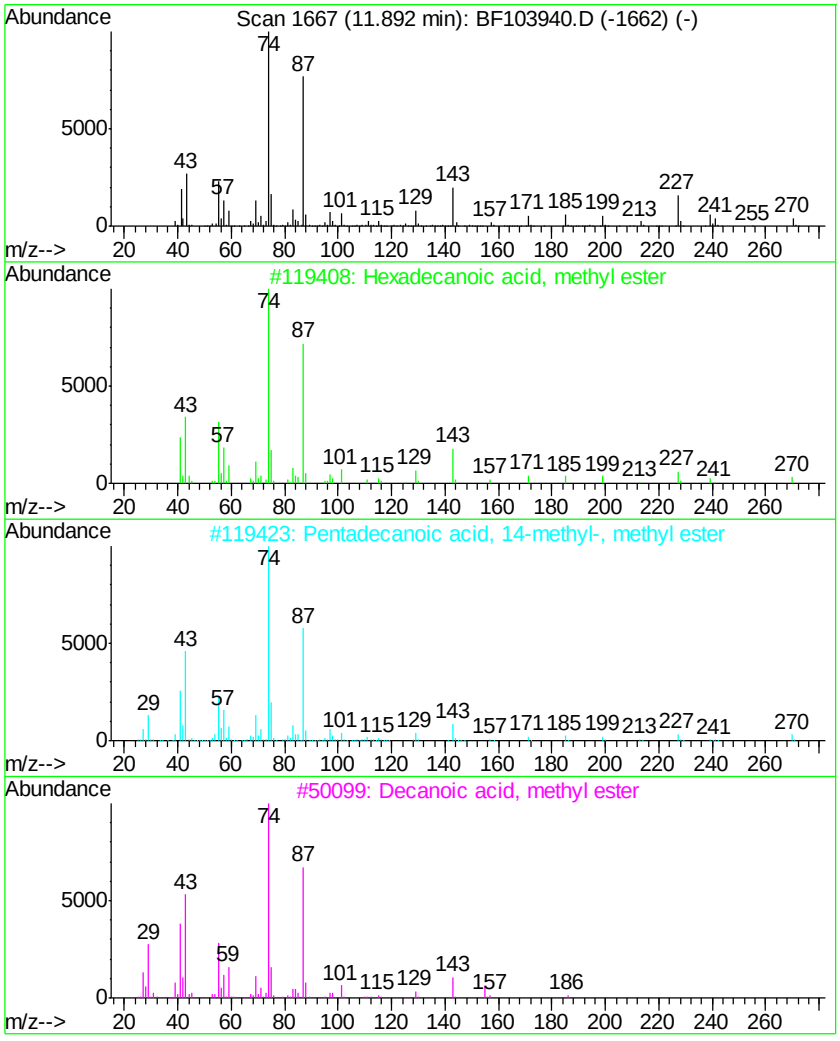
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

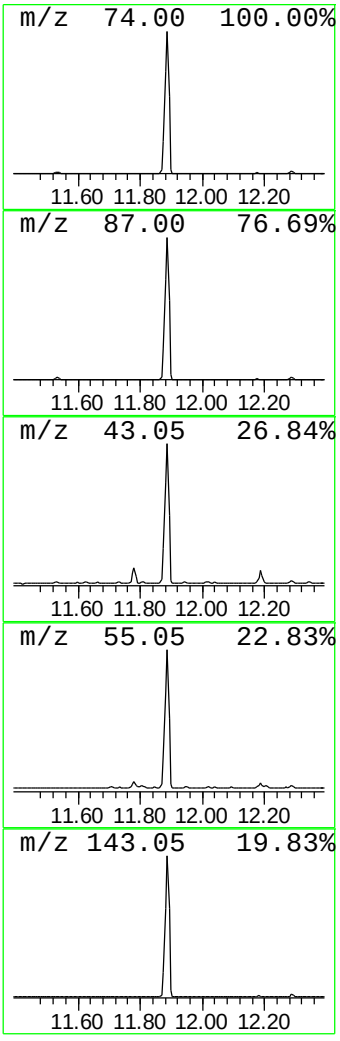
**********

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

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.89 | 70.63 ng | 3604750 | Phenanthrene-d10 | 11.51 |

| 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 | 93 |
| 3 | Decanoic acid, methyl ester | 186 | C11H22O2 | 000110-42-9 | 87 |
| 4 | Pentadecanoic acid, methyl ester | 256 | C16H32O2 | 007132-64-1 | 86 |
| 5 | Methyl tetradecanoate | 242 | C15H30O2 | 000124-10-7 | 80 |



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Data File : BF103940.D
Acq On : 26 Mar 2018 22:07
Operator : JU/SJ
Sample : J1760-07 2X
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SU-04-032318-B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

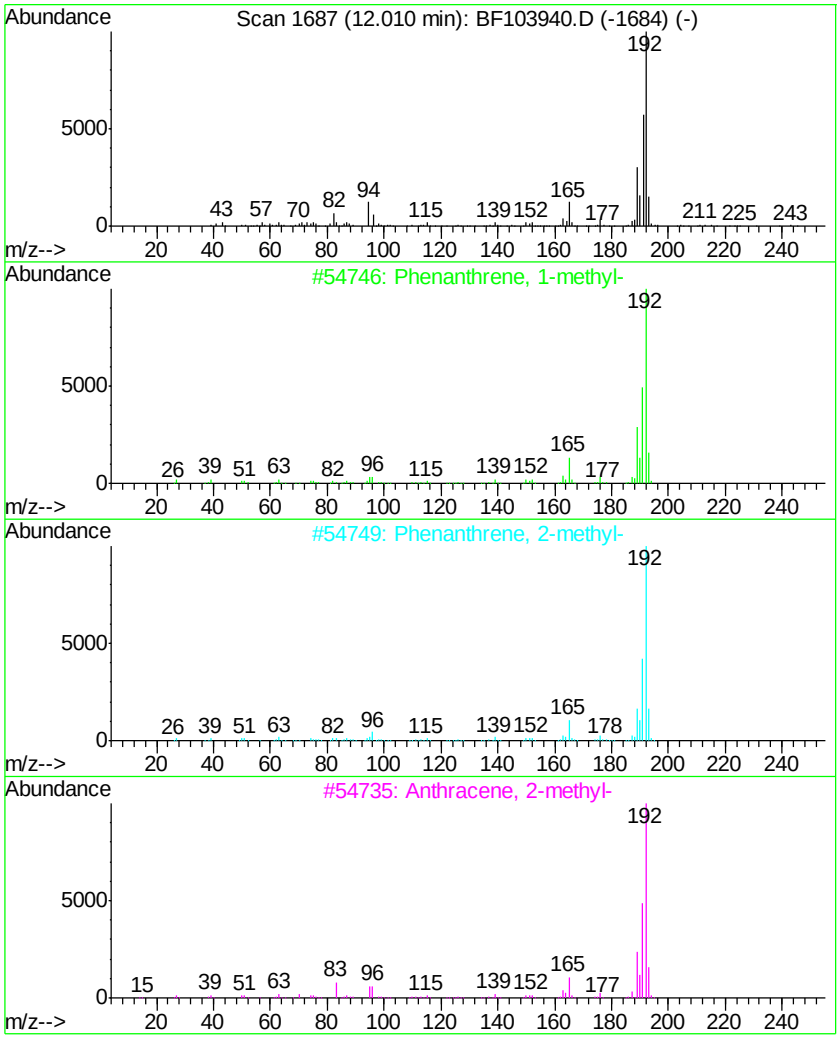
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

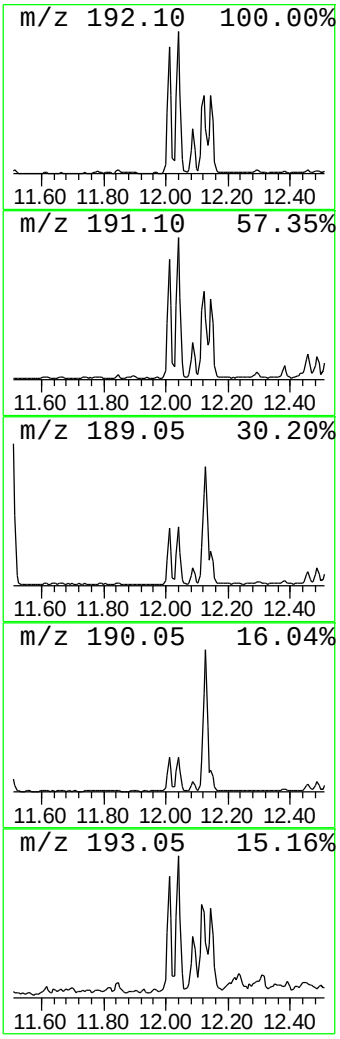
**********

Peak Number 11 Phenanthrene, 1-methyl- Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.01 | 5.45 ng | 278238 | Phenanthrene-d10 | 11.51 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 97 |
| 2 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 96 |
| 3 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 96 |
| 4 | 1H-Cyclopropa[l]phenanthrene,1a,... | 192 | C15H12 | 000949-41-7 | 95 |
| 5 | Anthracene, 9-methyl- | 192 | C15H12 | 000779-02-2 | 94 |



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Data File : BF103940.D
Acq On : 26 Mar 2018 22:07
Operator : JU/SJ
Sample : J1760-07 2X
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SU-04-032318-B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

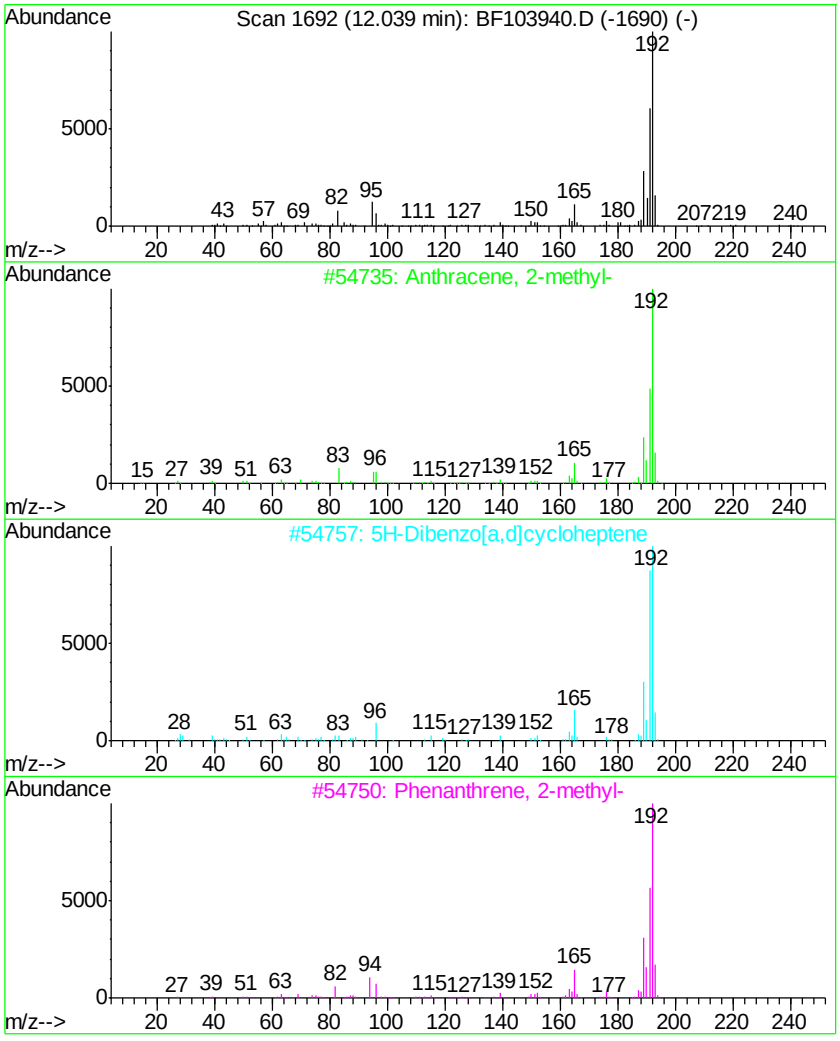
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

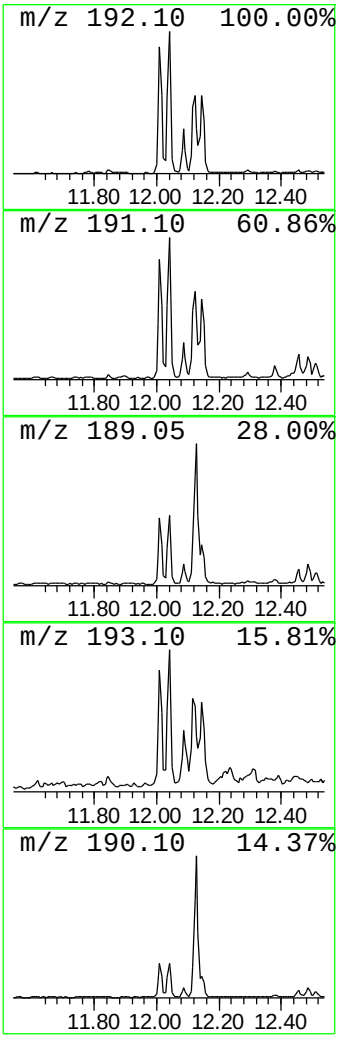
**********

Peak Number 12 Anthracene, 2-methyl- Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.04 | 5.16 ng | 263181 | Phenanthrene-d10 | 11.51 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 95 |
| 2 | 5H-Dibenzo[a,d]cycloheptene | 192 | C15H12 | 000256-81-5 | 95 |
| 3 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 95 |
| 4 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 93 |
| 5 | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 93 |



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Data File : BF103940.D
Acq On : 26 Mar 2018 22:07
Operator : JU/SJ
Sample : J1760-07 2X
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SU-04-032318-B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

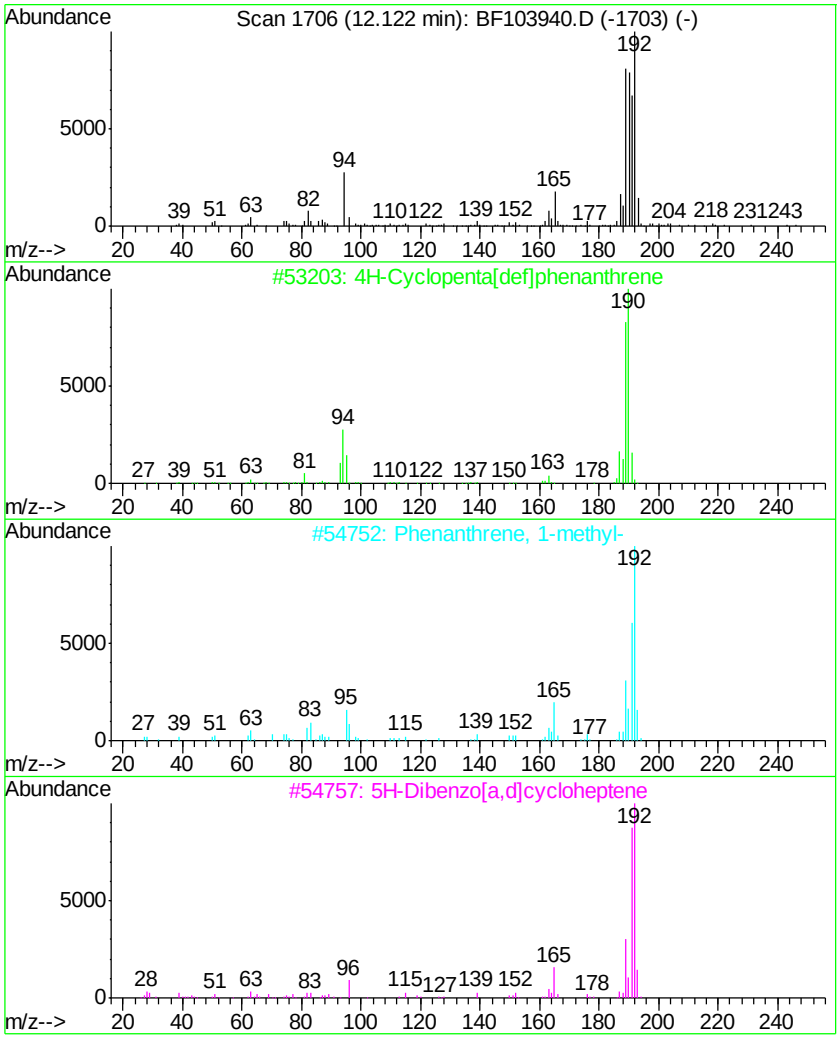
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

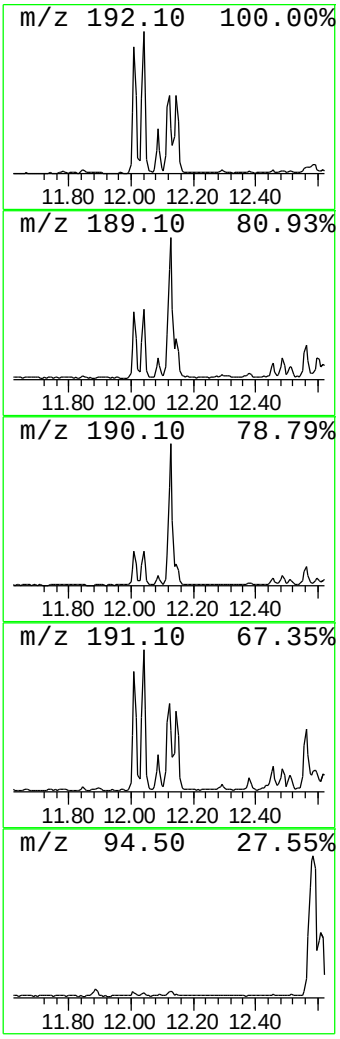
**********

Peak Number 13 unknown12.12 Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.12 | 6.70 ng | 341779 | Phenanthrene-d10 | 11.51 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 49 |
| 2 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 42 |
| 3 | 5H-Dibenzo[a,d]cycloheptene | 192 | C15H12 | 000256-81-5 | 42 |
| 4 | Phenanthrene, 4-methyl- | 192 | C15H12 | 000832-64-4 | 42 |
| 5 | Naphtho[2,3-b]norbornadiene | 192 | C15H12 | 107426-38-0 | 41 |



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Data File : BF103940.D
Acq On : 26 Mar 2018 22:07
Operator : JU/SJ
Sample : J1760-07 2X
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SU-04-032318-B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

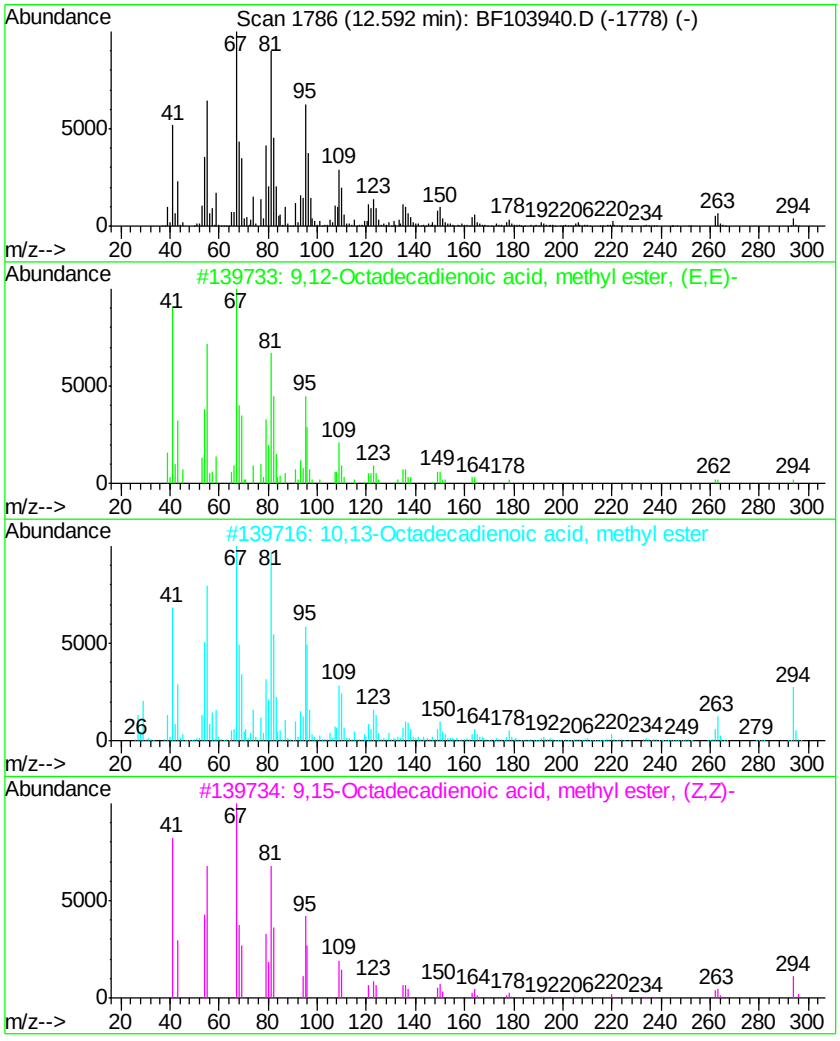
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

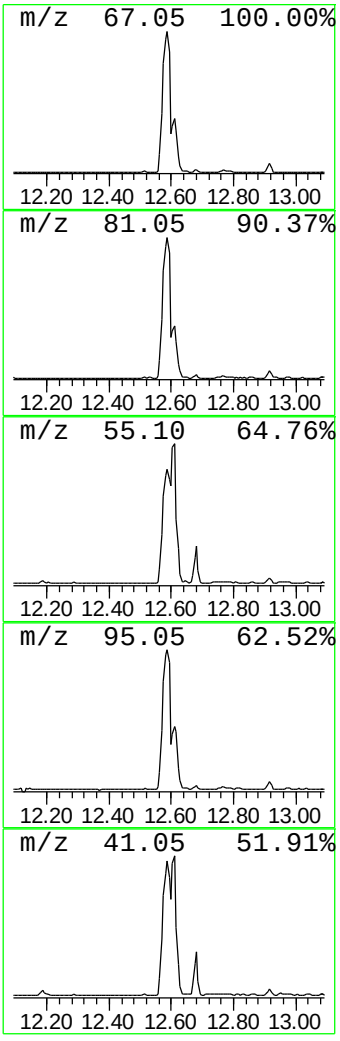
**********

Peak Number 15 9,12-Octadecadienoic acid, ... Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.59 | 186.89 ng | 9538720 | Phenanthrene-d10 | 11.51 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 9,12-Octadecadienoic acid, methy... | 294 | C19H34O2 | 002566-97-4 | 99 |
| 2 | 10,13-Octadecadienoic acid, meth... | 294 | C19H34O2 | 056554-62-2 | 99 |
| 3 | 9,15-Octadecadienoic acid, methy... | 294 | C19H34O2 | 017309-05-6 | 99 |
| 4 | 9,12-Octadecadienoic acid, methy... | 294 | C19H34O2 | 002462-85-3 | 99 |
| 5 | 9,12-Octadecadienoic acid (Z,Z)-... | 294 | C19H34O2 | 000112-63-0 | 99 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF032618\
Data File : BF103940.D
Acq On : 26 Mar 2018 22:07
Operator : JU/SJ
Sample : J1760-07 2X
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SU-04-032318-B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

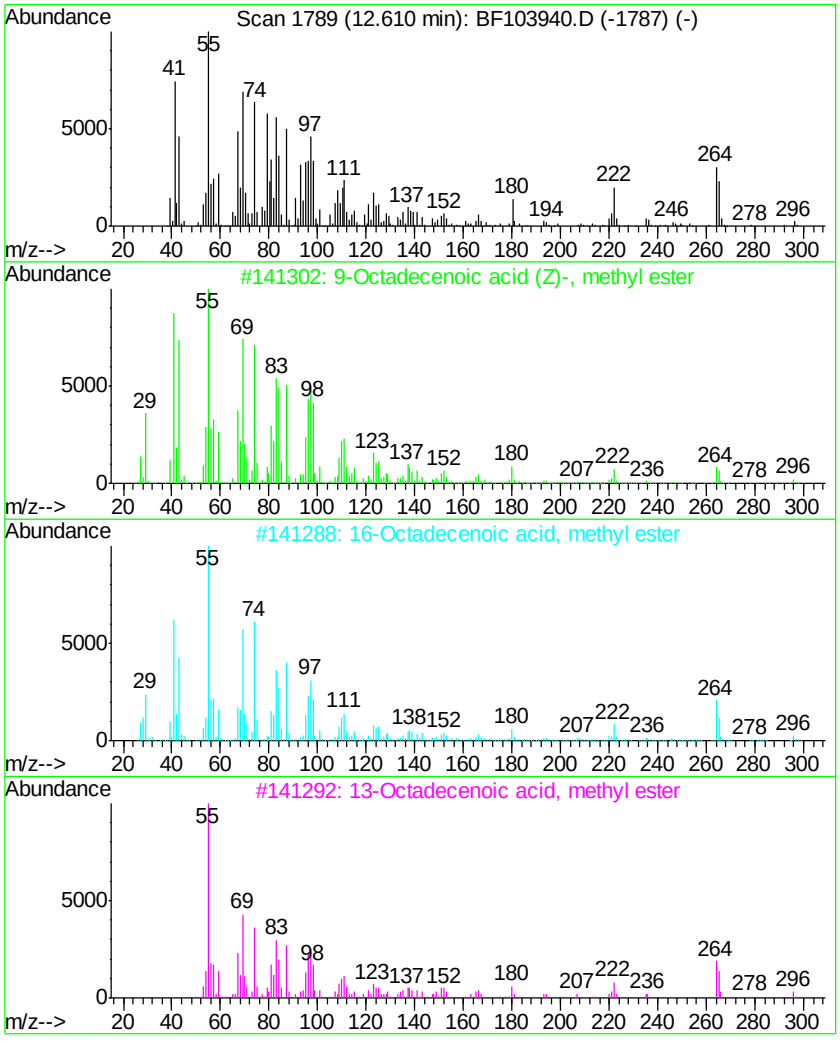
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

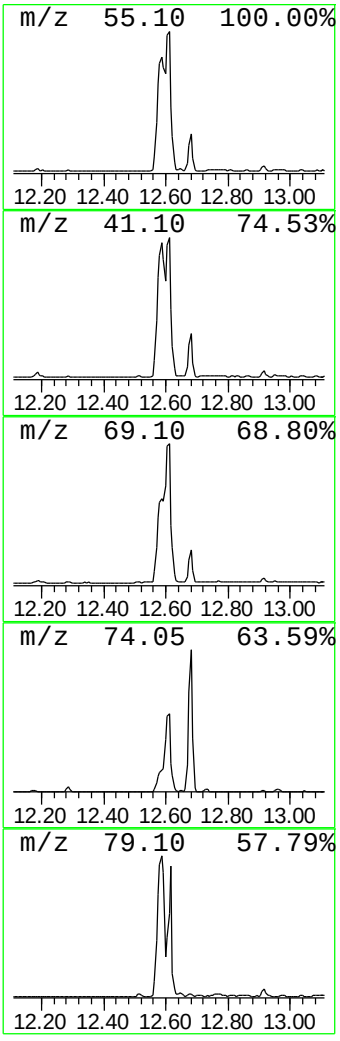
**********

Peak Number 16 9-Octadecenoic acid (Z)-, m... Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.61 | 106.97 ng | 5459900 | Phenanthrene-d10 | 11.51 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 9-Octadecenoic acid (Z)-, methyl... | 296 | C19H36O2 | 000112-62-9 | 99 |
| 2 | 16-Octadecenoic acid, methyl ester | 296 | C19H36O2 | 056554-49-5 | 99 |
| 3 | 13-Octadecenoic acid, methyl ester | 296 | C19H36O2 | 056554-47-3 | 98 |
| 4 | 6-Octadecenoic acid, methyl ester | 296 | C19H36O2 | 052355-31-4 | 96 |
| 5 | 15-Octadecenoic acid, methyl ester | 296 | C19H36O2 | 004764-72-1 | 95 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF032618\
Data File : BF103940.D
Acq On : 26 Mar 2018 22:07
Operator : JU/SJ
Sample : J1760-07 2X
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SU-04-032318-B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

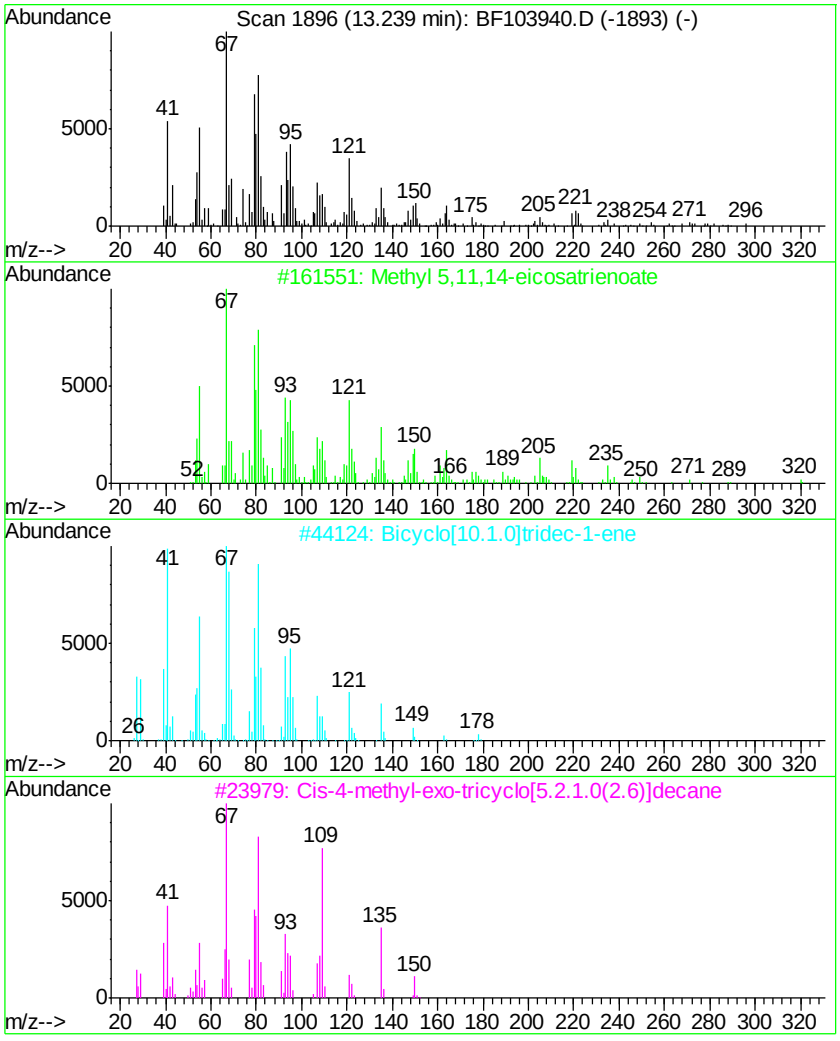
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

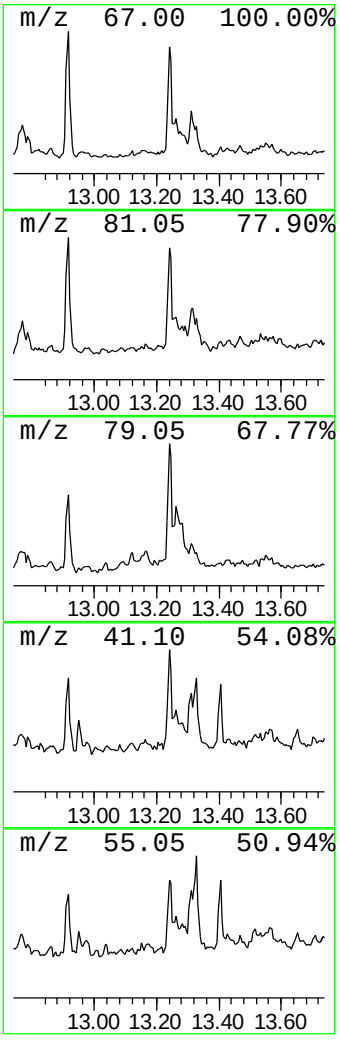
**********

Peak Number 17 Methyl 5,11,14-eicosatrienoate Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.24 | 4.56 ng | 294252 | Chrysene-d12 | 14.16 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Methyl 5,11,14-eicosatrienoate | 320 | C21H36O2 | 1000336-40-2 | 91 |
| 2 | Bicyclo[10.1.0]tridec-1-ene | 178 | C13H22 | 054766-91-5 | 90 |
| 3 | Cis-4-methyl-exo-tricyclo[5.2.1.... | 150 | C11H18 | 1000215-29-2 | 68 |
| 4 | Cyclooctene, 4-ethenyl- | 136 | C10H16 | 001124-45-4 | 64 |
| 5 | Bicyclo[6.1.0]non-1-ene | 122 | C9H14 | 002570-06-1 | 60 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF032618\
Data File : BF103940.D
Acq On : 26 Mar 2018 22:07
Operator : JU/SJ
Sample : J1760-07 2X
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SU-04-032318-B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

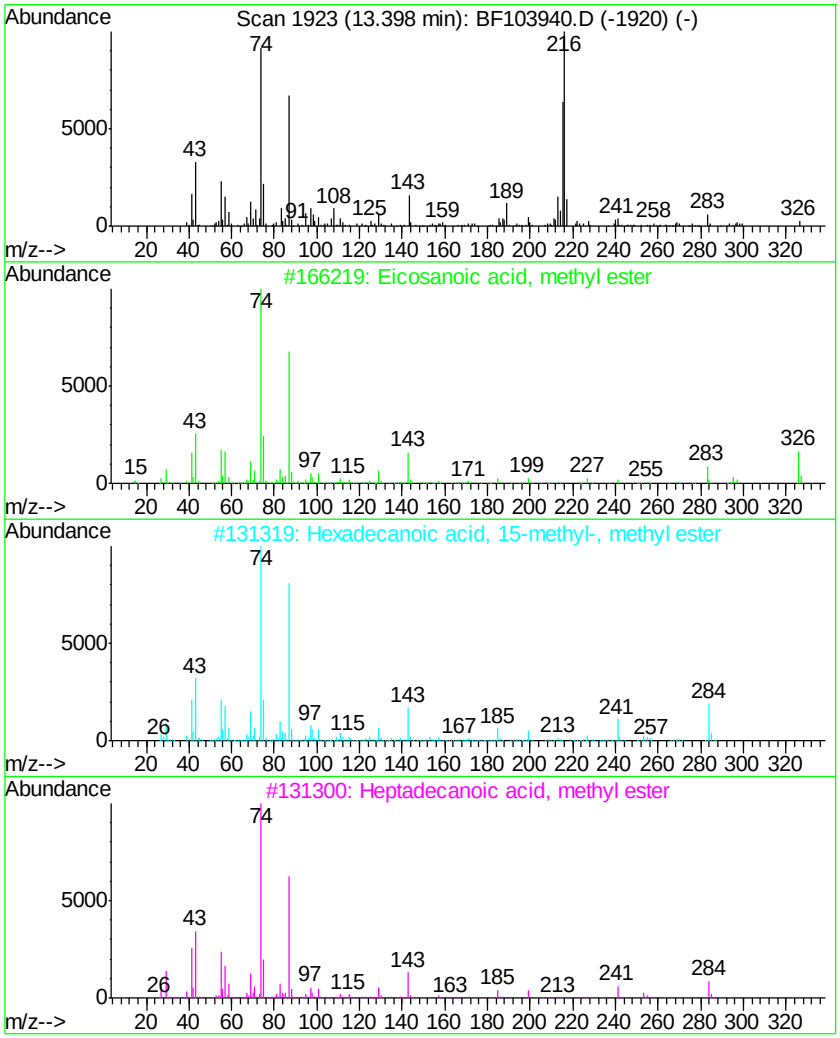
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

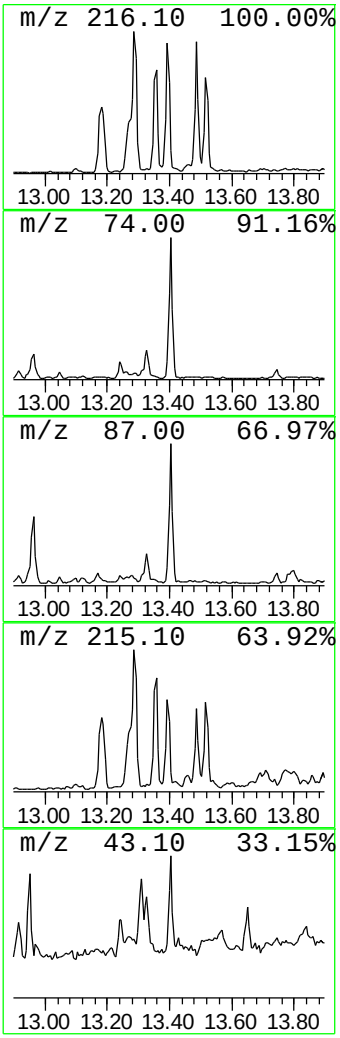
**********

Peak Number 18 Eicosanoic acid, methyl ester Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.40 | 3.98 ng | 256921 | Chrysene-d12 | 14.16 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Eicosanoic acid, methyl ester | 326 | C21H42O2 | 001120-28-1 | 97 |
| 2 | Hexadecanoic acid, 15-methyl-, m... | 284 | C18H36O2 | 006929-04-0 | 95 |
| 3 | Heptadecanoic acid, methyl ester | 284 | C18H36O2 | 001731-92-6 | 91 |
| 4 | Hexadecanoic acid, methyl ester | 270 | C17H34O2 | 000112-39-0 | 91 |
| 5 | Methyl 18-methylnonadecanoate | 326 | C21H42O2 | 1000352-20-6 | 89 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF032618\
Data File : BF103940.D
Acq On : 26 Mar 2018 22:07
Operator : JU/SJ
Sample : J1760-07 2X
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SU-04-032318-B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

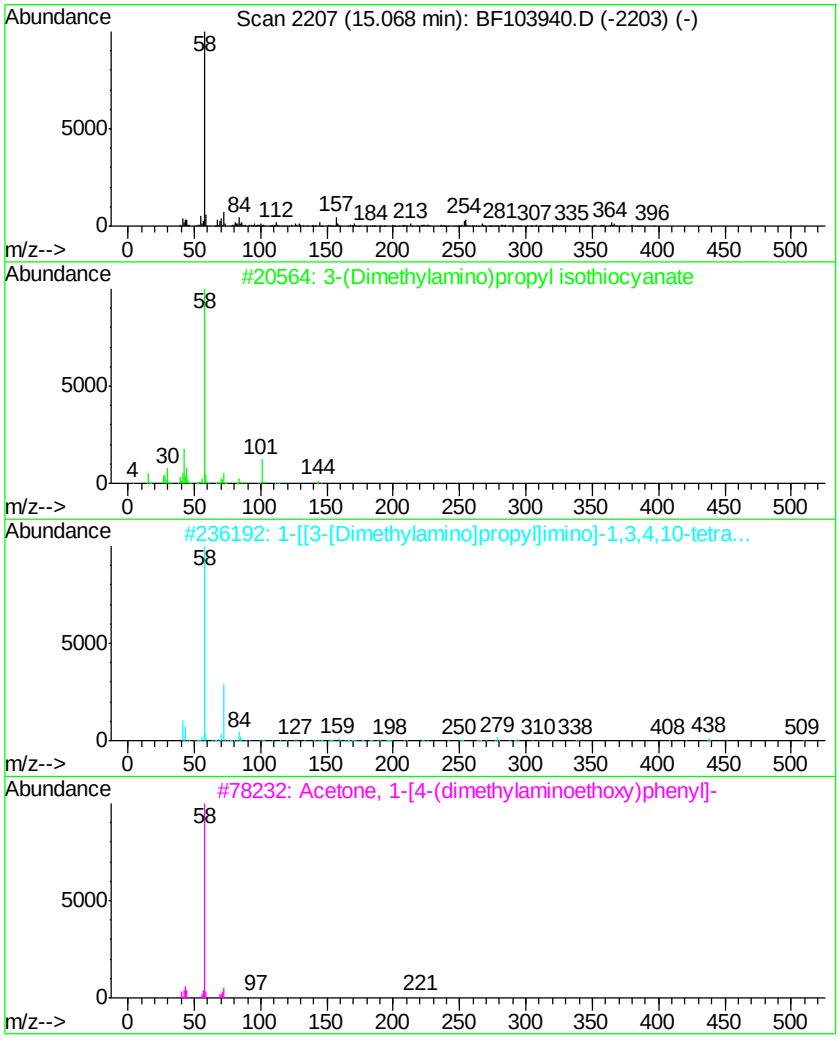
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

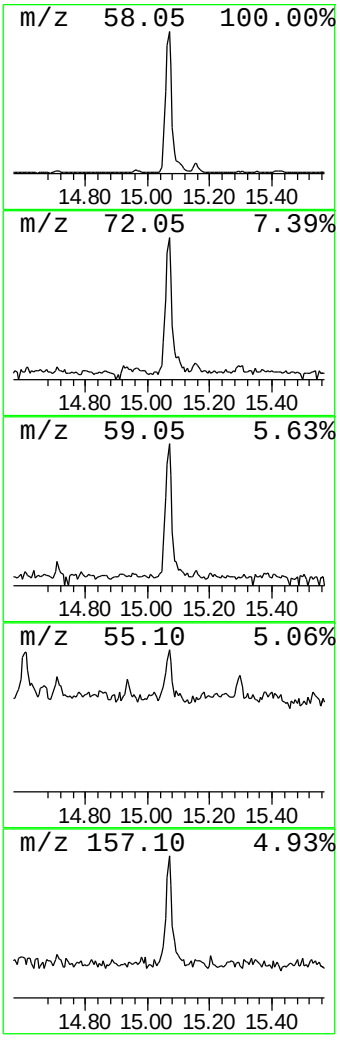
**********

Peak Number 19 3-(Dimethylamino)propyl iso... Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.07 | 12.61 ng | 417218 | Perylene-d12 | 15.71 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-(Dimethylamino)propyl isothioc... | 144 | C6H12N2S | 027421-70-1 | 64 |
| 2 | 1-[[3-[Dimethylamino]propyl]imin... | 509 | C26H25F6N3O | 144155-44-2 | 59 |
| 3 | Acetone, 1-[4-(dimethylaminoetho... | 221 | C13H19NO2 | 086608-11-9 | 59 |
| 4 | N,N-Dimethyl-2-cyclohexyloxyethy... | 171 | C10H21NO | 071126-60-8 | 59 |
| 5 | 1-Nonanamine, N,N-dimethyl- | 171 | C11H25N | 017373-27-2 | 59 |



Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF032618\
Data File : BF103940.D
Acq On : 26 Mar 2018 22:07
Operator : JU/SJ
Sample : J1760-07 2X
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SU-04-032318-B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

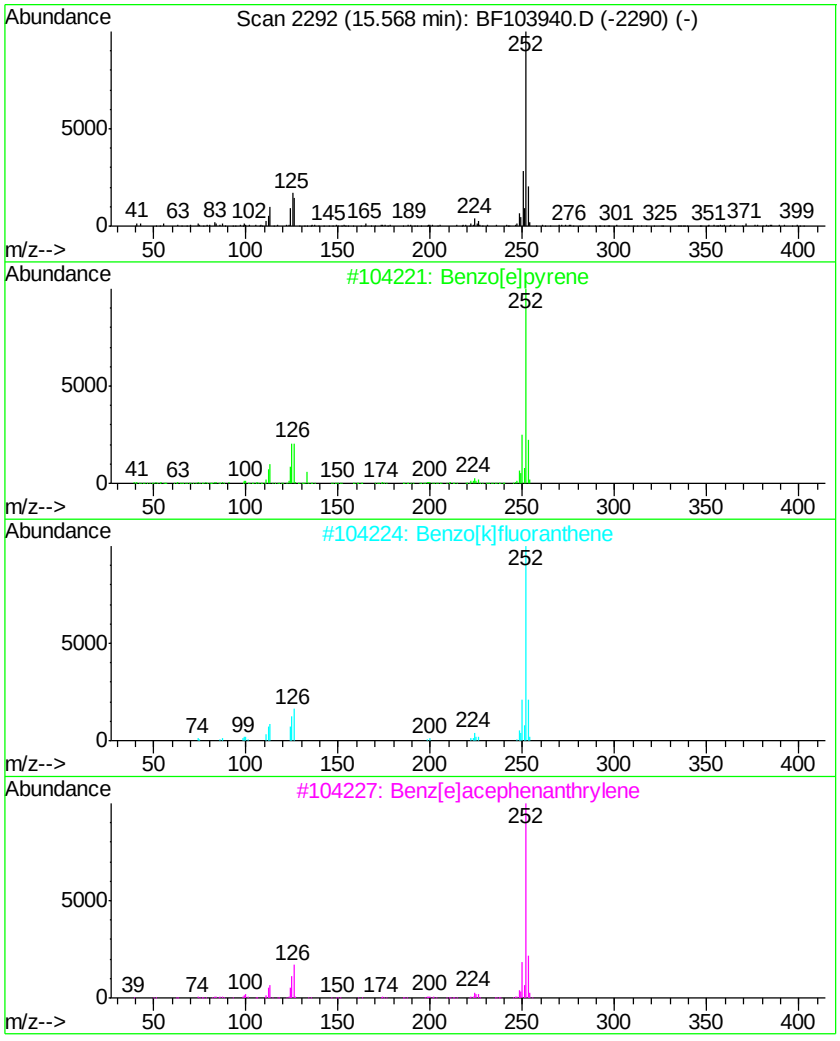
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

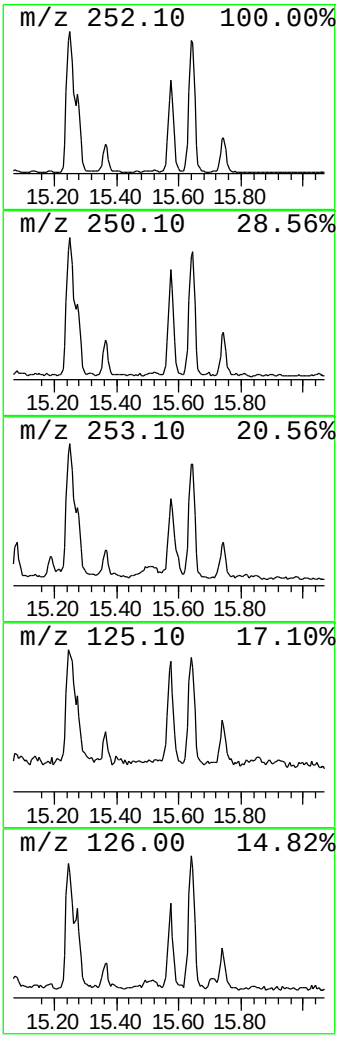
**********

Peak Number 20 Benzo[e]pyrene Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.57 | 6.97 ng | 230587 | Perylene-d12 | 15.71 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzo[e]pyrene | 252 | C20H12 | 000192-97-2 | 99 |
| 2 | Benzo[k]fluoranthene | 252 | C20H12 | 000207-08-9 | 98 |
| 3 | Benz[e]acephenanthrylene | 252 | C20H12 | 000205-99-2 | 97 |
| 4 | Perylene | 252 | C20H12 | 000198-55-0 | 94 |
| 5 | Benzo[a]pyrene | 252 | C20H12 | 000050-32-8 | 94 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF032618\
Data File : BF103940.D
Acq On : 26 Mar 2018 22:07
Operator : JU/SJ
Sample : J1760-07 2X
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SU-04-032318-B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031518.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 |
| unknown6.74 | 6.74 | 40.8 | ng | 1697910 | 1 | 6.97 | 831511 | 20.0 |
| Naphthalene, 2-me... | 9.07 | 2.9 | ng | 155528 | 2 | 8.26 | 1063280 | 20.0 |
| Tetradecane | 9.93 | 4.0 | ng | 220767 | 3 | 10.02 | 1090690 | 20.0 |
| Hexadecane | 10.43 | 6.5 | ng | 352363 | 3 | 10.02 | 1090690 | 20.0 |
| Dodecane | 10.65 | 3.0 | ng | 162393 | 3 | 10.02 | 1090690 | 20.0 |
| Heptadecane | 10.90 | 9.0 | ng | 457199 | 4 | 11.51 | 1020790 | 20.0 |
| Heneicosane | 11.35 | 4.8 | ng | 243249 | 4 | 11.51 | 1020790 | 20.0 |
| Hexadecanoic acid... | 11.89 | 70.6 | ng | 3604750 | 4 | 11.51 | 1020790 | 20.0 |
| Phenanthrene, 1-m... | 12.01 | 5.5 | ng | 278238 | 4 | 11.51 | 1020790 | 20.0 |
| Anthracene, 2-met... | 12.04 | 5.2 | ng | 263181 | 4 | 11.51 | 1020790 | 20.0 |
| unknown12.12 | 12.12 | 6.7 | ng | 341779 | 4 | 11.51 | 1020790 | 20.0 |
| 9,12-Octadecadien... | 12.59 | 186.9 | ng | 9538720 | 4 | 11.51 | 1020790 | 20.0 |
| 9-Octadecenoic ac... | 12.61 | 107.0 | ng | 5459900 | 4 | 11.51 | 1020790 | 20.0 |
| Methyl 5,11,14-ei... | 13.24 | 4.6 | ng | 294252 | 5 | 14.16 | 1290060 | 20.0 |
| Eicosanoic acid, ... | 13.40 | 4.0 | ng | 256921 | 5 | 14.16 | 1290060 | 20.0 |
| 3-(Dimethylamino)... | 15.07 | 12.6 | ng | 417218 | 6 | 15.71 | 661857 | 20.0 |
| Benzo[e]pyrene | 15.57 | 7.0 | ng | 230587 | 6 | 15.71 | 661857 | 20.0 |