LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF110618\
Data File : BF110537.D
Acq On : 7 Nov 2018 1:16
Operator : JU/SJ
Sample : J5764-19 5X
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** JC-03-110218-J

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-BF102318.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 | 5.575 | 590 | 593 | 605 | rBV | 215639 | 269724 | 2.34% | 0.730% |
| 2 | 6.575 | 760 | 763 | 778 | rBV | 207841 | 309891 | 2.69% | 0.838% |
| 3 | 6.722 | 785 | 788 | 795 | rBV | 306656 | 292436 | 2.53% | 0.791% |
| 4 | 6.957 | 824 | 828 | 841 | rBV | 626311 | 551450 | 4.78% | 1.492% |
| 5 | 7.110 | 851 | 854 | 862 | rVB | 261844 | 234535 | 2.03% | 0.634% |
| 6 | 7.522 | 920 | 924 | 931 | rBV2 | 121947 | 171227 | 1.48% | 0.463% |
| 7 | 8.239 | 1043 | 1046 | 1051 | rBV | 667334 | 566329 | 4.91% | 1.532% |
| 8 | 9.310 | 1225 | 1228 | 1232 | rBV | 328408 | 305222 | 2.65% | 0.826% |
| 9 | 9.375 | 1237 | 1239 | 1243 | rVV | 183584 | 166572 | 1.44% | 0.451% |
| 10 | 9.698 | 1290 | 1294 | 1299 | rVV4 | 143095 | 176686 | 1.53% | 0.478% |
| 11 | 9.904 | 1326 | 1329 | 1334 | rVB | 248078 | 234358 | 2.03% | 0.634% |
| 12 | 9.998 | 1342 | 1345 | 1349 | rVB | 679803 | 555684 | 4.82% | 1.503% |
| 13 | 10.404 | 1411 | 1414 | 1417 | rBV | 358452 | 297746 | 2.58% | 0.805% |
| 14 | 10.627 | 1447 | 1452 | 1454 | rBV | 165681 | 200549 | 1.74% | 0.543% |
| 15 | 10.792 | 1476 | 1480 | 1486 | rBV2 | 153924 | 199725 | 1.73% | 0.540% |
| 16 | 10.880 | 1492 | 1495 | 1501 | rBV | 423572 | 476291 | 4.13% | 1.288% |
| 17 | 11.327 | 1568 | 1571 | 1574 | rBV | 352821 | 278076 | 2.41% | 0.752% |
| 18 | 11.492 | 1596 | 1599 | 1601 | rBV | 678737 | 578809 | 5.02% | 1.566% |
| 19 | 11.516 | 1601 | 1603 | 1606 | rVB | 171384 | 143918 | 1.25% | 0.389% |
| 20 | 11.757 | 1641 | 1644 | 1647 | rBV | 301922 | 238855 | 2.07% | 0.646% |
| 21 | 11.863 | 1658 | 1662 | 1665 | rVB | 4173031 | 3704907 | 32.11% | 10.023% |
| 22 | 11.998 | 1681 | 1685 | 1692 | rBV2 | 241066 | 309177 | 2.68% | 0.836% |
| 23 | 12.163 | 1709 | 1713 | 1715 | rBV | 273592 | 236088 | 2.05% | 0.639% |
| 24 | 12.568 | 1774 | 1782 | 1783 | rBV | 7089110 | 11538535 | 100.00% | 31.215% |
| 25 | 12.586 | 1783 | 1785 | 1790 | rVB2 | 7028108 | 7593106 | 65.81% | 20.541% |
| 26 | 12.657 | 1793 | 1797 | 1800 | rVB | 2162779 | 1848199 | 16.02% | 5.000% |
| 27 | 12.715 | 1800 | 1807 | 1809 | rBV2 | 603754 | 941074 | 8.16% | 2.546% |
| 28 | 12.892 | 1833 | 1837 | 1840 | rVB | 437671 | 412686 | 3.58% | 1.116% |
| 29 | 12.921 | 1840 | 1842 | 1844 | rBV2 | 219260 | 183715 | 1.59% | 0.497% |
| 30 | 12.945 | 1844 | 1846 | 1850 | rVB | 194058 | 191043 | 1.66% | 0.517% |
| 31 | 13.074 | 1865 | 1868 | 1870 | rBV | 252550 | 217092 | 1.88% | 0.587% |
| 32 | 13.215 | 1889 | 1892 | 1894 | rBV | 312656 | 291571 | 2.53% | 0.789% |
| 33 | 13.251 | 1894 | 1898 | 1901 | rVV4 | 145235 | 217548 | 1.89% | 0.589% |
| 34 | 13.280 | 1901 | 1903 | 1905 | rBV2 | 181119 | 144081 | 1.25% | 0.390% |

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF110618\
Data File : BF110537.D
Acq On : 7 Nov 2018 1:16
Operator : JU/SJ
Sample : J5764-19 5X
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** JC-03-110218-J

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-BF102318.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 13.374 | 1916 | 1919 | 1922 | rBV | 318128 | 277986 | 2.41% | 0.752% |
| 36 | 13.621 | 1958 | 1961 | 1964 | rBV | 156042 | 132299 | 1.15% | 0.358% |
| 37 | 13.951 | 2014 | 2017 | 2019 | rBV2 | 160713 | 145333 | 1.26% | 0.393% |
| 38 | 14.045 | 2030 | 2033 | 2037 | rBV | 180257 | 192334 | 1.67% | 0.520% |
| 39 | 14.086 | 2037 | 2040 | 2044 | rVB | 277262 | 216683 | 1.88% | 0.586% |
| 40 | 14.139 | 2045 | 2049 | 2052 | rBV2 | 485447 | 536562 | 4.65% | 1.452% |
| 41 | 14.262 | 2068 | 2070 | 2075 | rVB | 145540 | 127103 | 1.10% | 0.344% |
| 42 | 14.568 | 2119 | 2122 | 2130 | rBV2 | 217100 | 245941 | 2.13% | 0.665% |
| 43 | 14.886 | 2174 | 2176 | 2180 | rVB | 124142 | 122462 | 1.06% | 0.331% |
| 44 | 15.021 | 2195 | 2199 | 2203 | rVB | 256227 | 335135 | 2.90% | 0.907% |
| 45 | 15.239 | 2234 | 2236 | 2240 | rVB | 141169 | 149034 | 1.29% | 0.403% |
| 46 | 15.639 | 2301 | 2304 | 2306 | rBV | 104661 | 116254 | 1.01% | 0.314% |
| 47 | 15.674 | 2307 | 2310 | 2314 | rVB | 224920 | 291249 | 2.52% | 0.788% |

Sum of corrected areas: 36965280

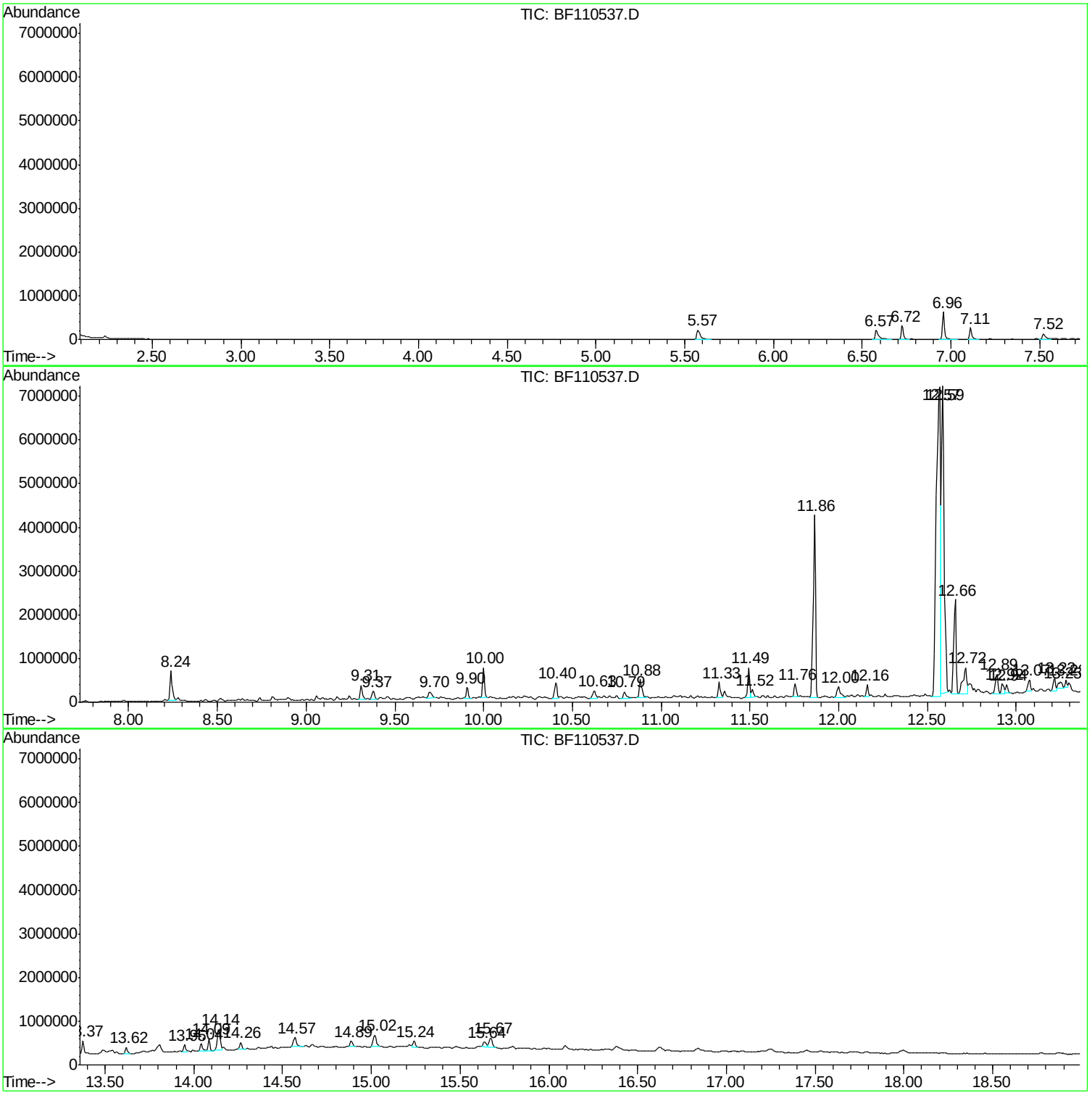
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF110618\
Data File : BF110537.D
Acq On : 7 Nov 2018 1:16
Operator : JU/SJ
Sample : J5764-19 5X
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** JC-03-110218-J

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF102318.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\BF110618\
Data File : BF110537.D
Acq On : 7 Nov 2018 1:16
Operator : JU/SJ
Sample : J5764-19 5X
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** JC-03-110218-J

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF102318.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

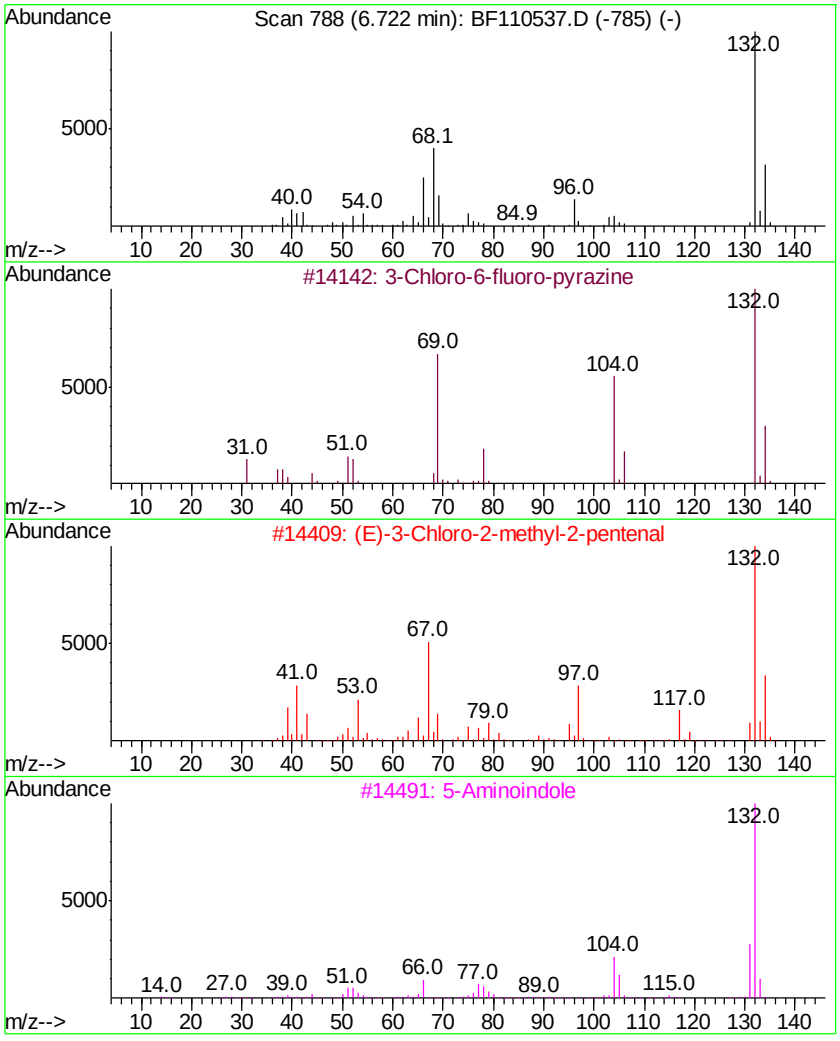
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

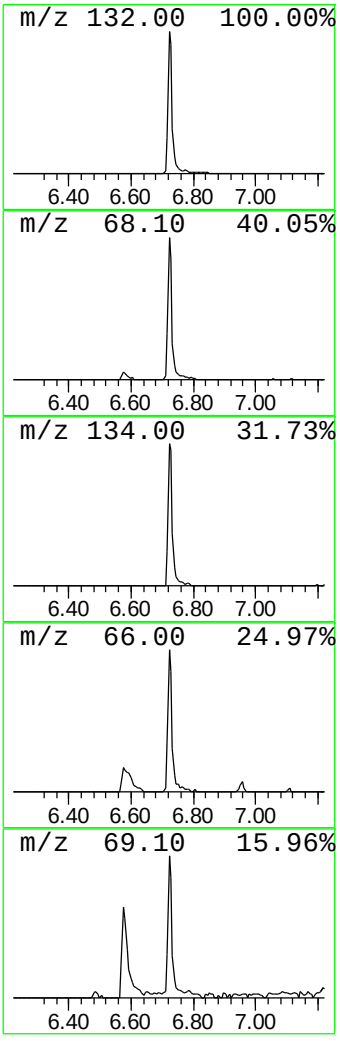
**********

Peak Number 1 unknown6.72 Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.72 | 10.61 ng | 292436 | 1,4-Dichlorobenzene-d4 | 6.96 |

| 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 | 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\BF110618\
Data File : BF110537.D
Acq On : 7 Nov 2018 1:16
Operator : JU/SJ
Sample : J5764-19 5X
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** JC-03-110218-J

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF102318.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

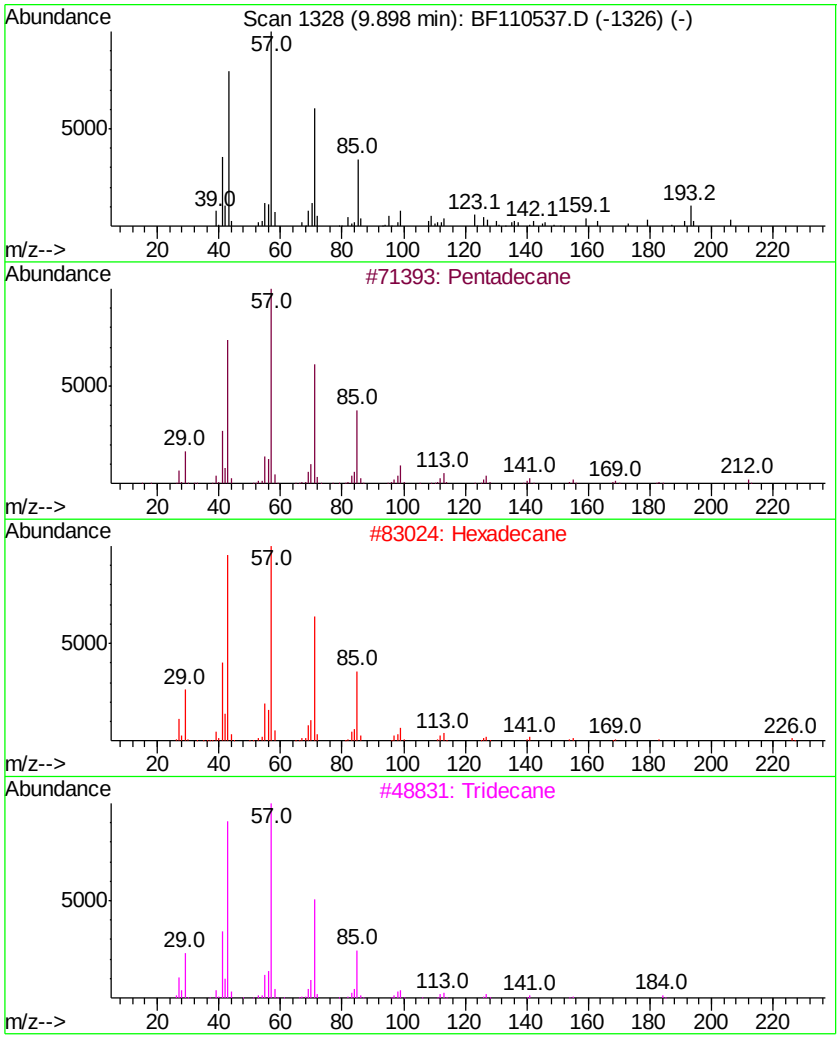
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

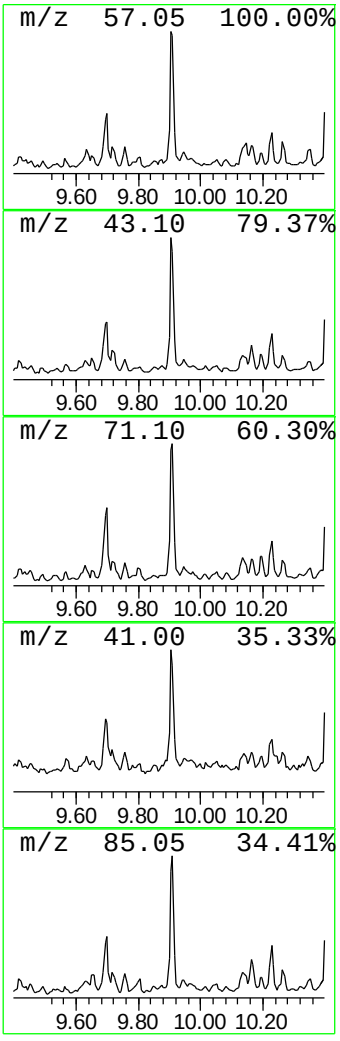
**********

Peak Number 3 Pentadecane Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.90 | 8.43 ng | 234358 | Acenaphthene-d10 | 10.00 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentadecane | 212 | C15H32 | 000629-62-9 | 91 |
| 2 | Hexadecane | 226 | C16H34 | 000544-76-3 | 91 |
| 3 | Tridecane | 184 | C13H28 | 000629-50-5 | 83 |
| 4 | Tetradecane | 198 | C14H30 | 000629-59-4 | 83 |
| 5 | Octacosane | 394 | C28H58 | 000630-02-4 | 83 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF110618\
Data File : BF110537.D
Acq On : 7 Nov 2018 1:16
Operator : JU/SJ
Sample : J5764-19 5X
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** JC-03-110218-J

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF102318.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

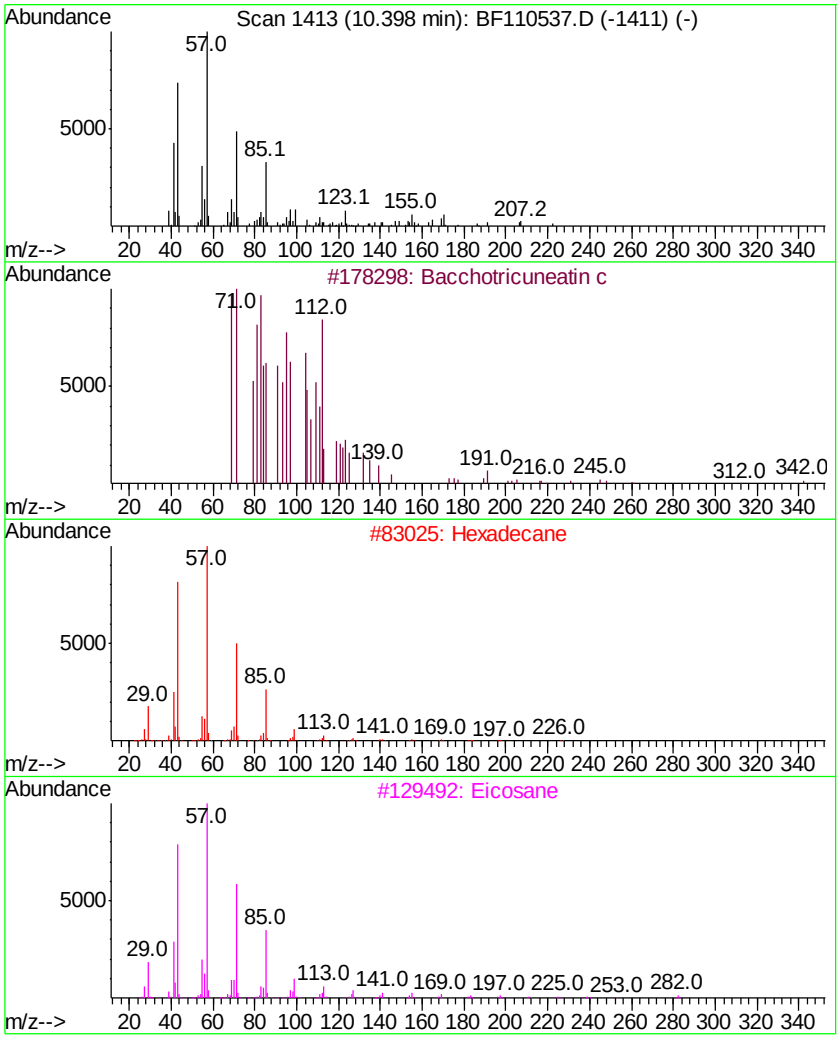
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

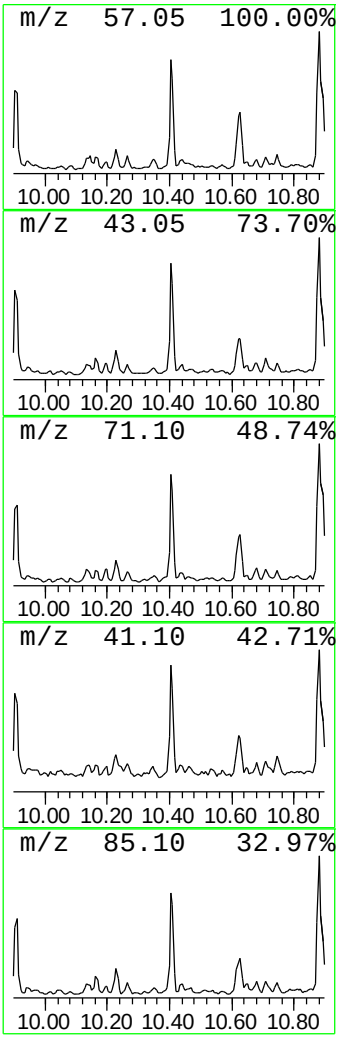
**********

Peak Number 4 Bacchotricuneatin c Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.40 | 10.72 ng | 297746 | Acenaphthene-d10 | 10.00 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Bacchotricuneatin c | 342 | C20H22O5 | 066563-30-2 | 98 |
| 2 | Hexadecane | 226 | C16H34 | 000544-76-3 | 90 |
| 3 | Eicosane | 282 | C20H42 | 000112-95-8 | 86 |
| 4 | 5-Ethyldecane | 170 | C12H26 | 017302-36-2 | 86 |
| 5 | Pentadecane | 212 | C15H32 | 000629-62-9 | 86 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF110618\
Data File : BF110537.D
Acq On : 7 Nov 2018 1:16
Operator : JU/SJ
Sample : J5764-19 5X
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** JC-03-110218-J

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF102318.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

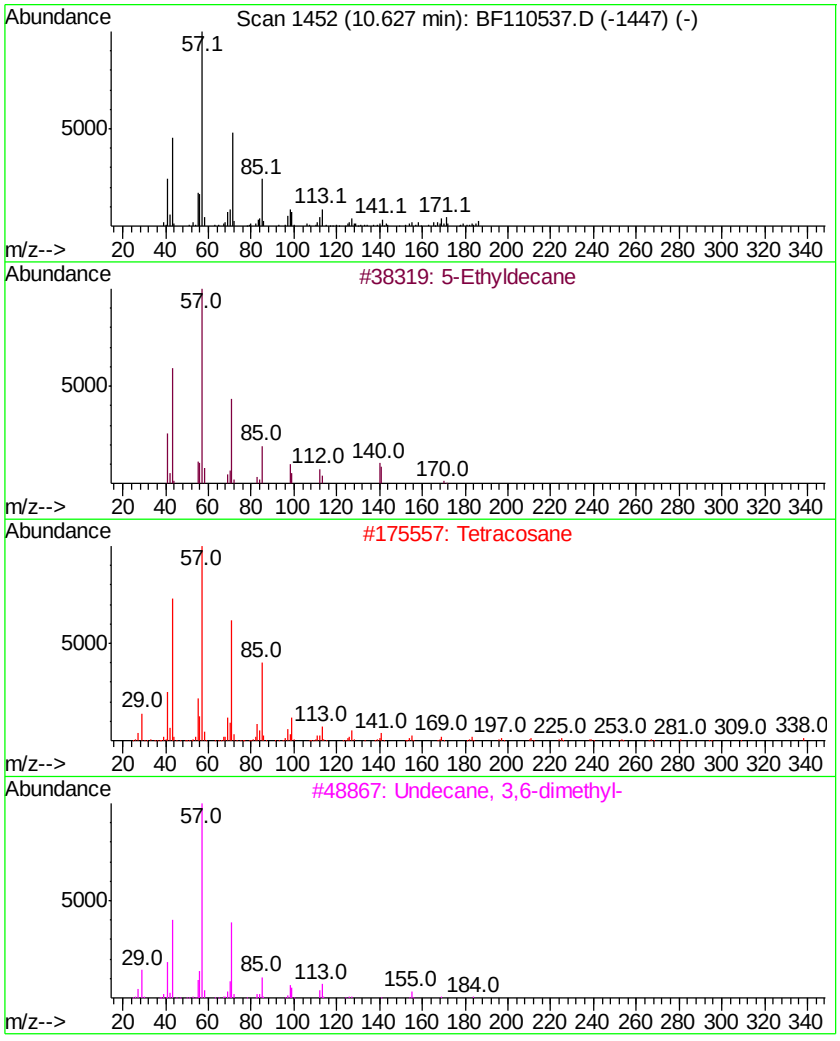
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

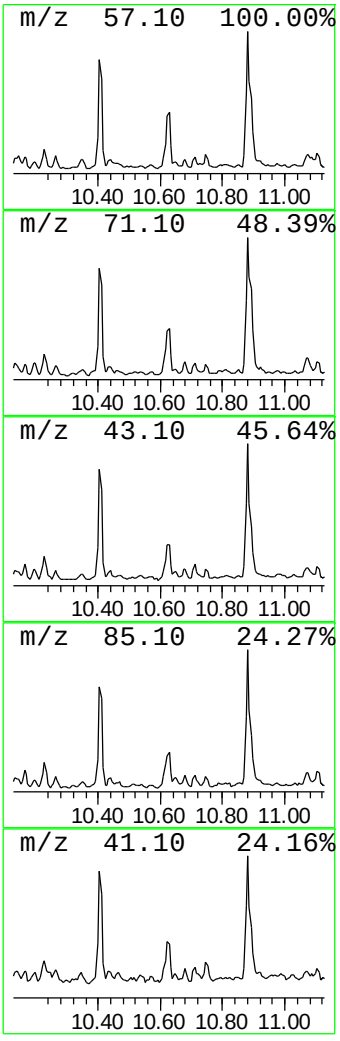
**********

Peak Number 5 5-Ethyldecane Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.63 | 7.22 ng | 200549 | Acenaphthene-d10 | 10.00 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 5-Ethyldecane | 170 | C12H26 | 017302-36-2 | 68 |
| 2 | Tetracosane | 338 | C24H50 | 000646-31-1 | 64 |
| 3 | Undecane, 3,6-dimethyl- | 184 | C13H28 | 017301-28-9 | 64 |
| 4 | Pentadecane | 212 | C15H32 | 000629-62-9 | 64 |
| 5 | Heneicosane | 296 | C21H44 | 000629-94-7 | 64 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF110618\
Data File : BF110537.D
Acq On : 7 Nov 2018 1:16
Operator : JU/SJ
Sample : J5764-19 5X
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** JC-03-110218-J

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF102318.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

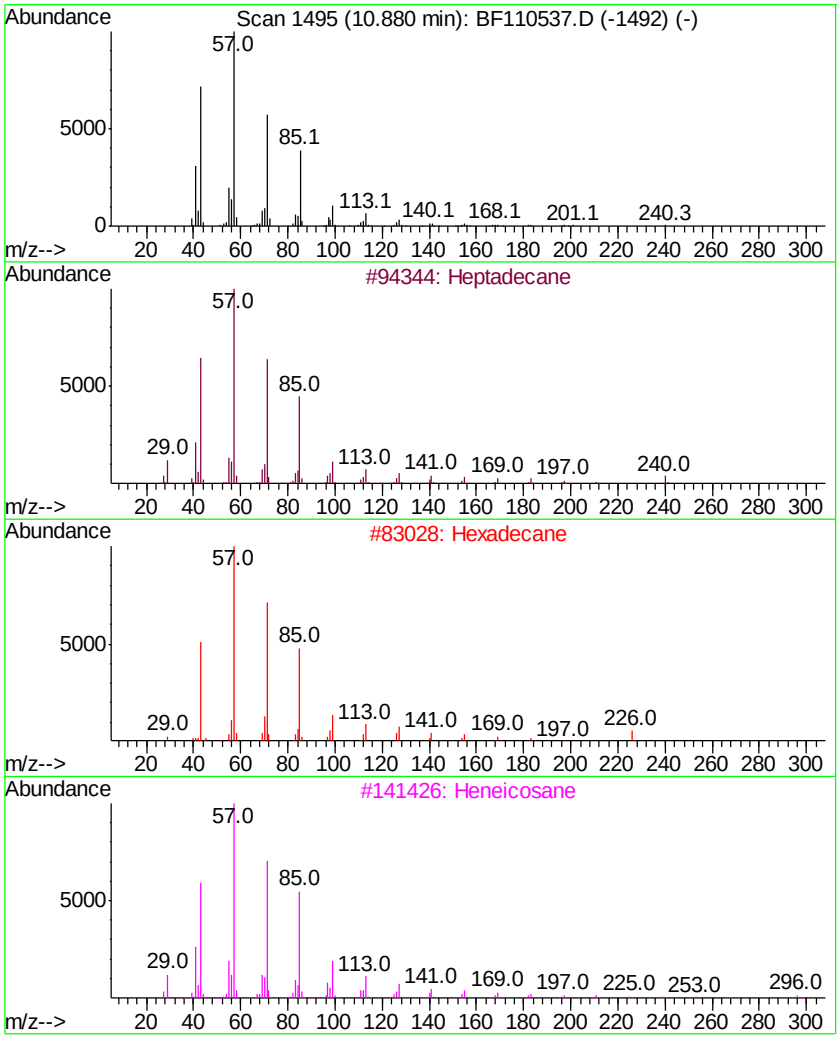
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

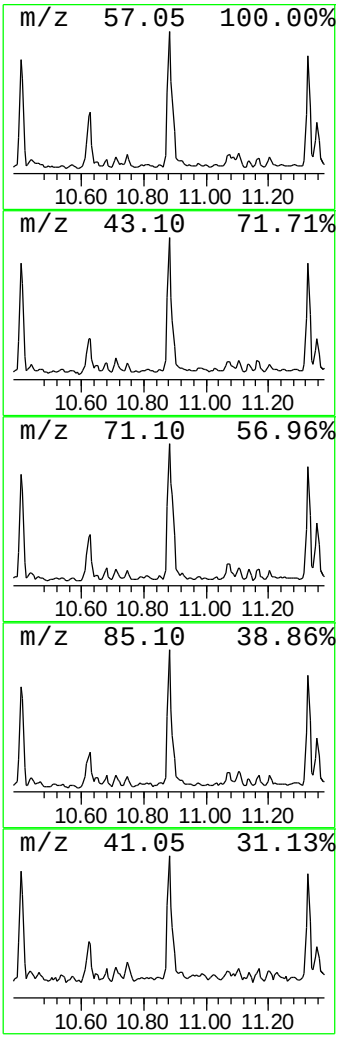
**********

Peak Number 6 Heptadecane Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.88 | 16.46 ng | 476291 | Phenanthrene-d10 | 11.49 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptadecane | 240 | C17H36 | 000629-78-7 | 94 |
| 2 | Hexadecane | 226 | C16H34 | 000544-76-3 | 90 |
| 3 | Heneicosane | 296 | C21H44 | 000629-94-7 | 90 |
| 4 | Pentadecane | 212 | C15H32 | 000629-62-9 | 90 |
| 5 | Nonane, 3,7-dimethyl- | 156 | C11H24 | 017302-32-8 | 72 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF110618\
Data File : BF110537.D
Acq On : 7 Nov 2018 1:16
Operator : JU/SJ
Sample : J5764-19 5X
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** JC-03-110218-J

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF102318.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

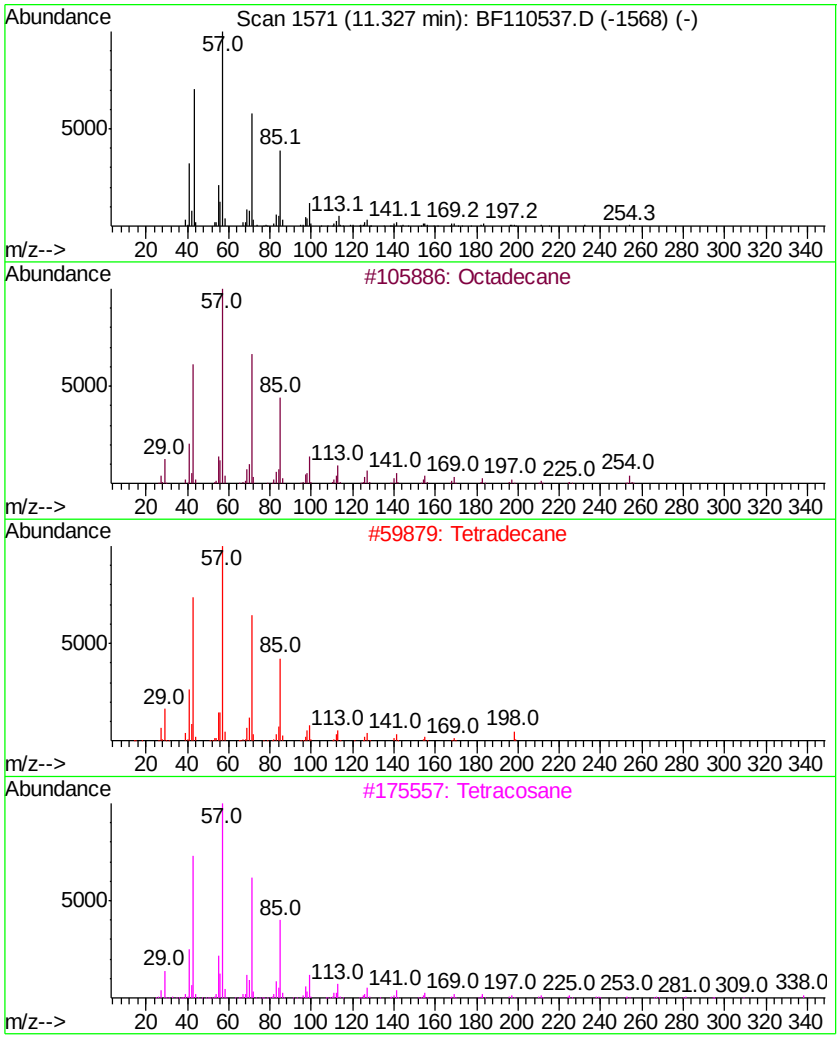
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

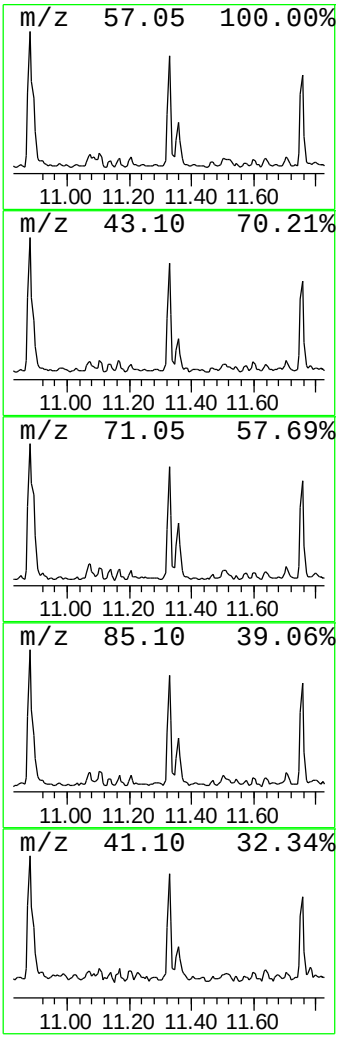
**********

Peak Number 7 Octadecane Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.33 | 9.61 ng | 278076 | Phenanthrene-d10 | 11.49 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octadecane | 254 | C18H38 | 000593-45-3 | 93 |
| 2 | Tetradecane | 198 | C14H30 | 000629-59-4 | 93 |
| 3 | Tetracosane | 338 | C24H50 | 000646-31-1 | 91 |
| 4 | Heptadecane | 240 | C17H36 | 000629-78-7 | 90 |
| 5 | Hexadecane | 226 | C16H34 | 000544-76-3 | 90 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF110618\
Data File : BF110537.D
Acq On : 7 Nov 2018 1:16
Operator : JU/SJ
Sample : J5764-19 5X
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** JC-03-110218-J

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF102318.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

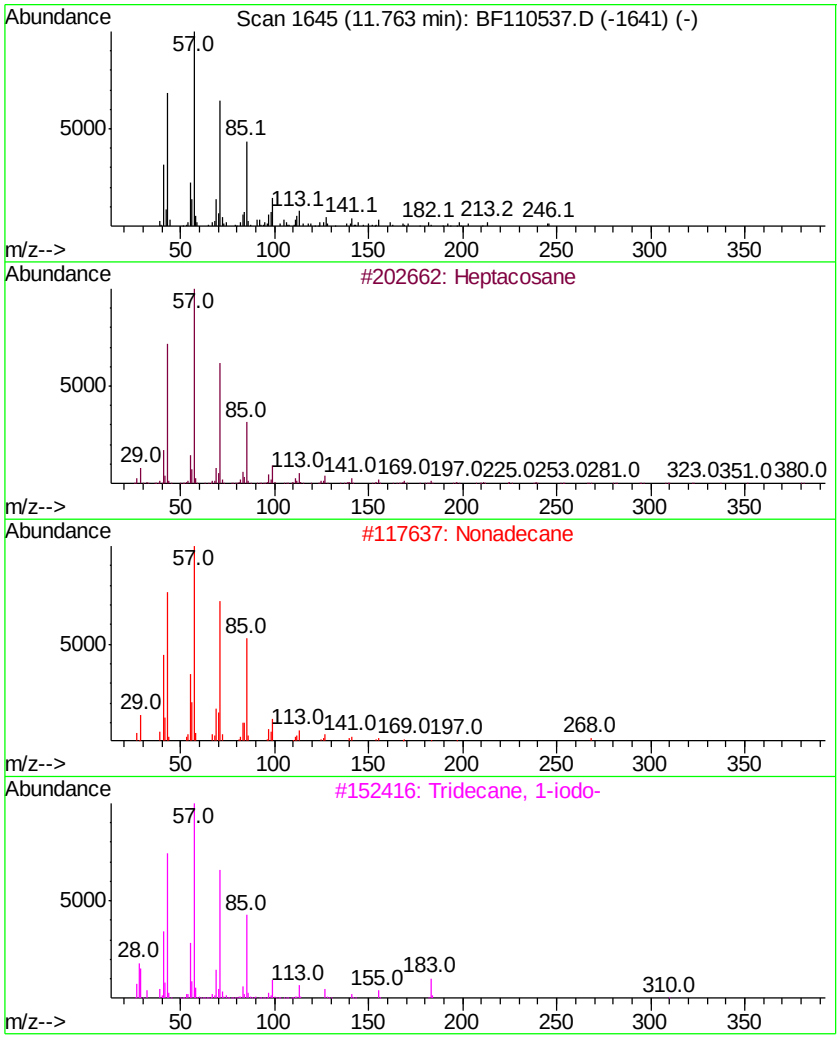
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

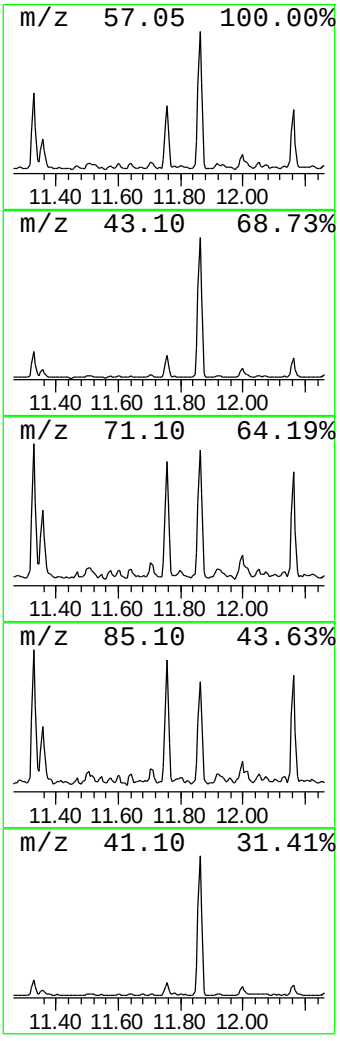
**********

Peak Number 8 Heptacosane Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.76 | 8.25 ng | 238855 | Phenanthrene-d10 | 11.49 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptacosane | 380 | C27H56 | 000593-49-7 | 91 |
| 2 | Nonadecane | 268 | C19H40 | 000629-92-5 | 91 |
| 3 | Tridecane, 1-iodo- | 310 | C13H27I | 035599-77-0 | 90 |
| 4 | Pentadecane, 8-hexyl- | 296 | C21H44 | 013475-75-7 | 90 |
| 5 | 2-Bromo dodecane | 248 | C12H25Br | 013187-99-0 | 90 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF110618\
Data File : BF110537.D
Acq On : 7 Nov 2018 1:16
Operator : JU/SJ
Sample : J5764-19 5X
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** JC-03-110218-J

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF102318.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

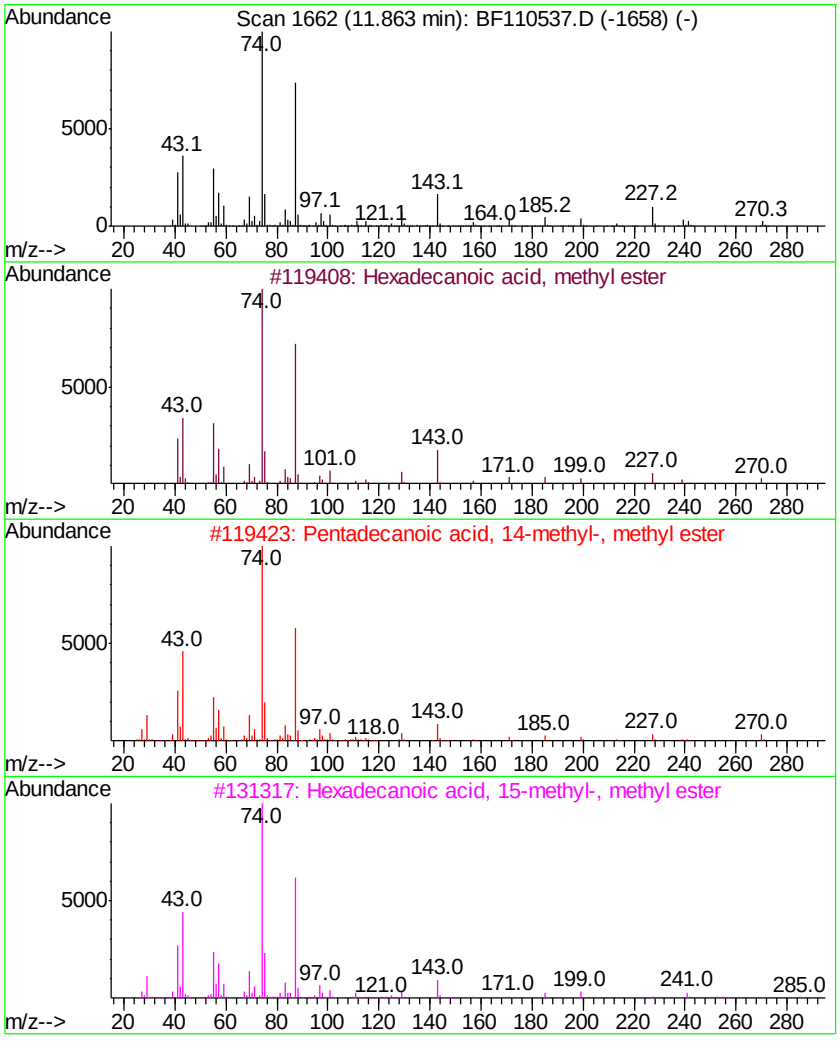
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

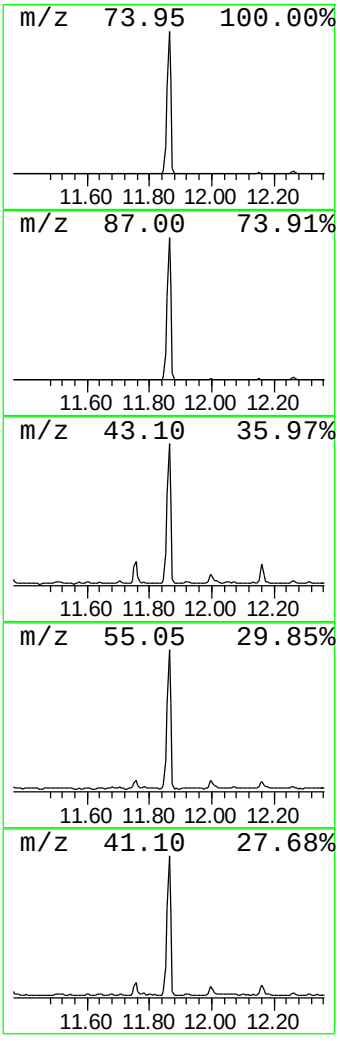
**********

Peak Number 9 Hexadecanoic acid, methyl e... Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.86 | 128.02 ng | 3704910 | 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 | 93 |
| 3 | Hexadecanoic acid, 15-methyl-, m... | 284 | C18H36O2 | 006929-04-0 | 87 |
| 4 | Pentadecanoic acid, methyl ester | 256 | C16H32O2 | 007132-64-1 | 86 |
| 5 | Tridecanoic acid, 12-methyl-, me... | 242 | C15H30O2 | 005129-58-8 | 80 |



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF110618\
Data File : BF110537.D
Acq On : 7 Nov 2018 1:16
Operator : JU/SJ
Sample : J5764-19 5X
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** JC-03-110218-J

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF102318.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

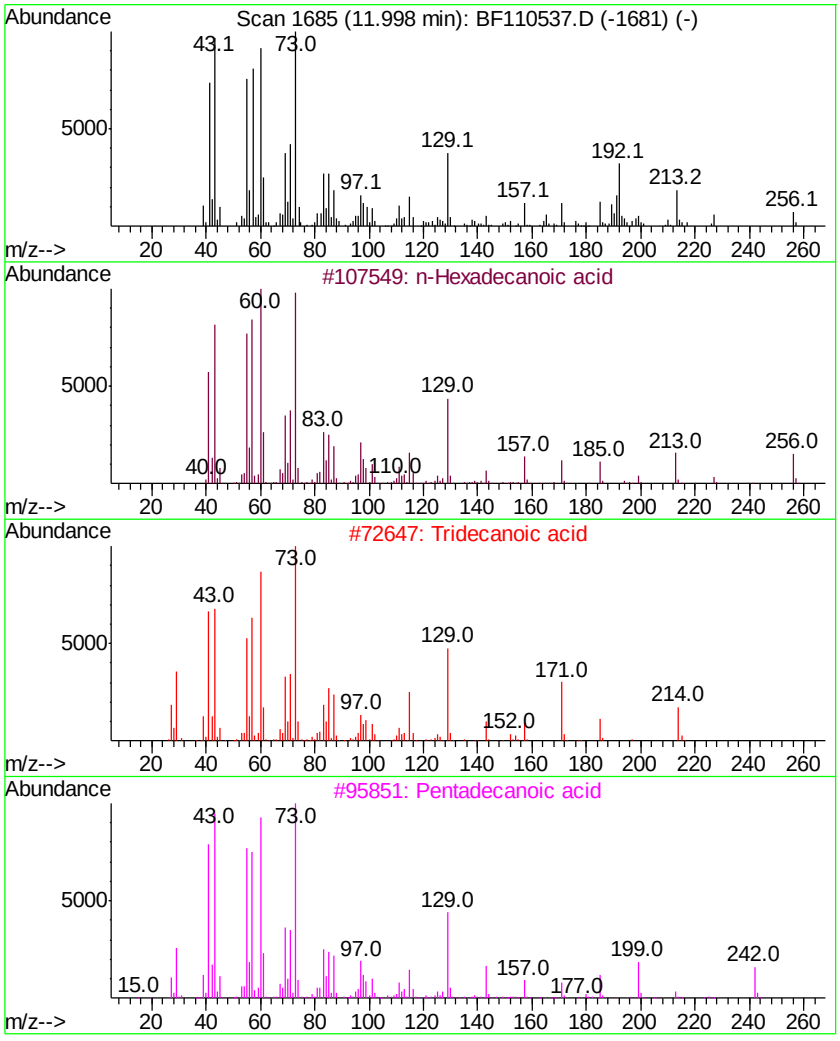
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

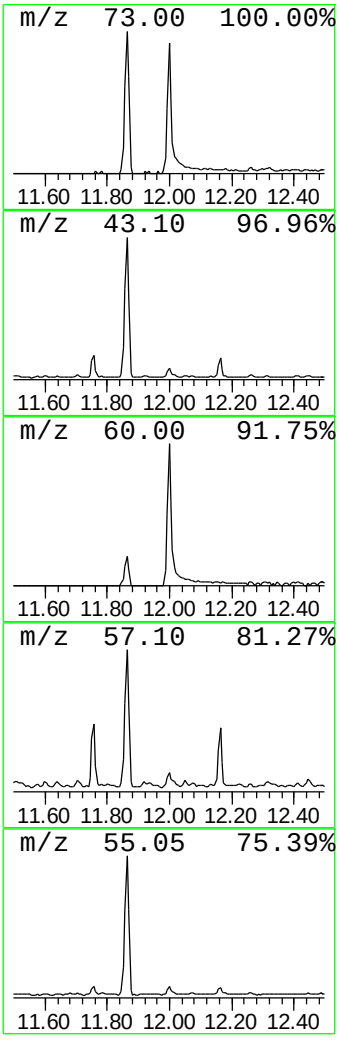
**********

Peak Number 10 n-Hexadecanoic acid Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.00 | 10.68 ng | 309177 | Phenanthrene-d10 | 11.49 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 99 |
| 2 | Tridecanoic acid | 214 | C13H26O2 | 000638-53-9 | 96 |
| 3 | Pentadecanoic acid | 242 | C15H30O2 | 001002-84-2 | 90 |
| 4 | Tetradecanoic acid | 228 | C14H28O2 | 000544-63-8 | 72 |
| 5 | n-Decanoic acid | 172 | C10H20O2 | 000334-48-5 | 70 |



# Library Search Compound Report

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Data File : BF110537.D
Acq On : 7 Nov 2018 1:16
Operator : JU/SJ
Sample : J5764-19 5X
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** JC-03-110218-J

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF102318.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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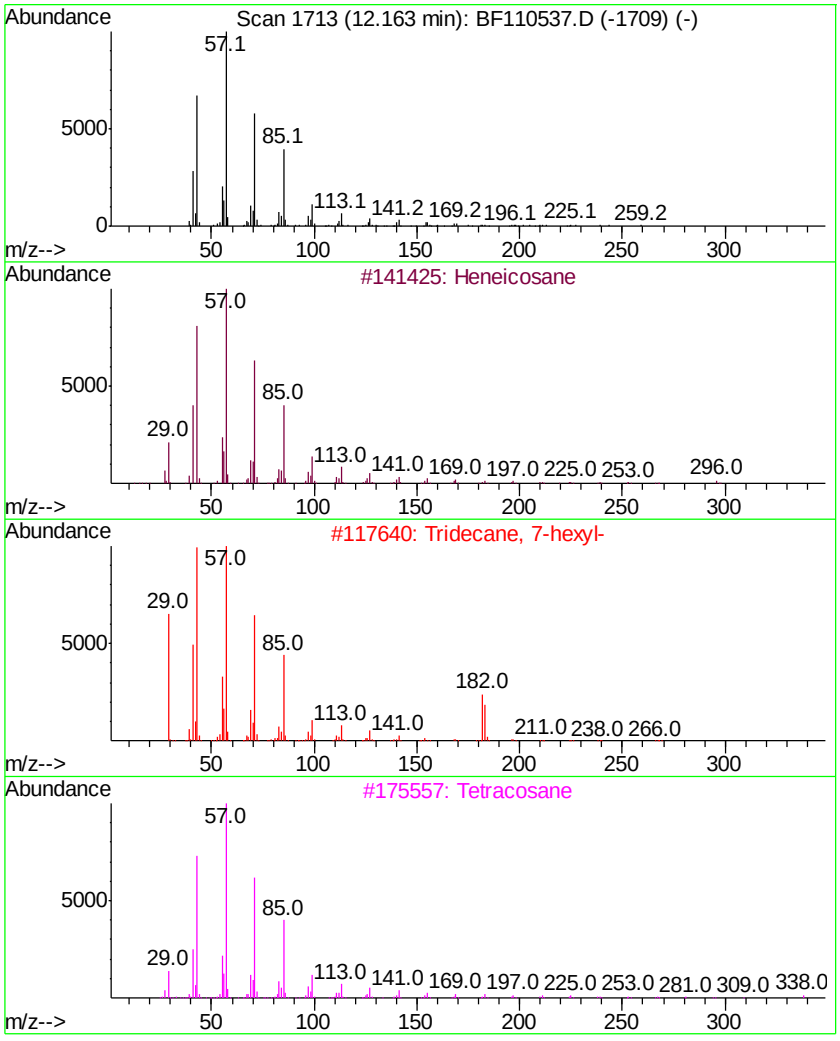
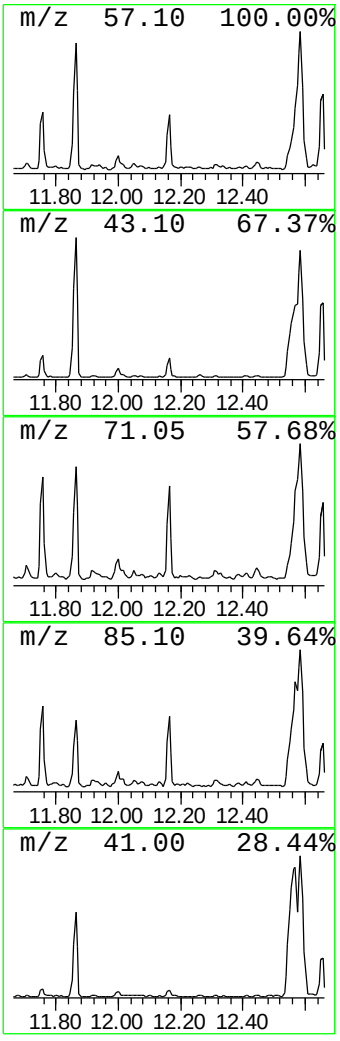
Peak Number 11 Heneicosane Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.16 | 8.16 ng | 236088 | Phenanthrene-d10 | 11.49 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heneicosane | 296 | C21H44 | 000629-94-7 | 91 |
| 2 | Tridecane, 7-hexyl- | 268 | C19H40 | 007225-66-3 | 91 |
| 3 | Tetracosane | 338 | C24H50 | 000646-31-1 | 91 |
| 4 | Eicosane | 282 | C20H42 | 000112-95-8 | 91 |
| 5 | Heptacosane | 380 | C27H56 | 000593-49-7 | 91 |



Library Search Compound Report

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Data File : BF110537.D
Acq On : 7 Nov 2018 1:16
Operator : JU/SJ
Sample : J5764-19 5X
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** JC-03-110218-J

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF102318.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

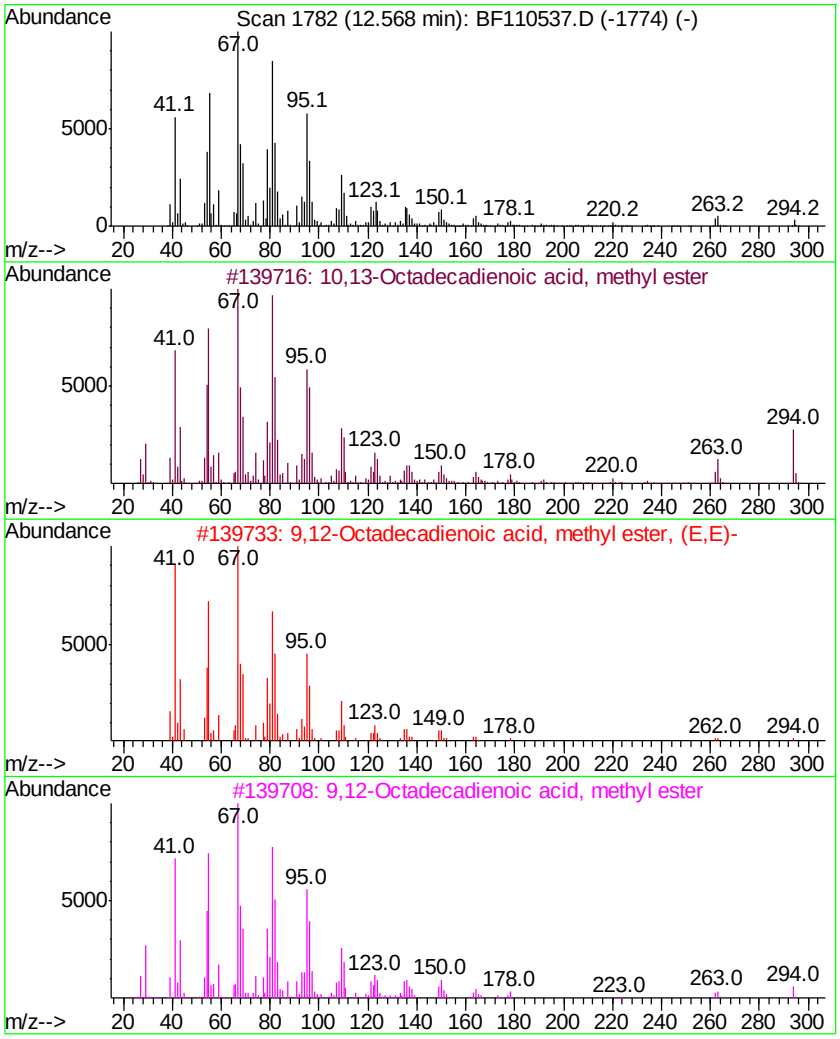
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

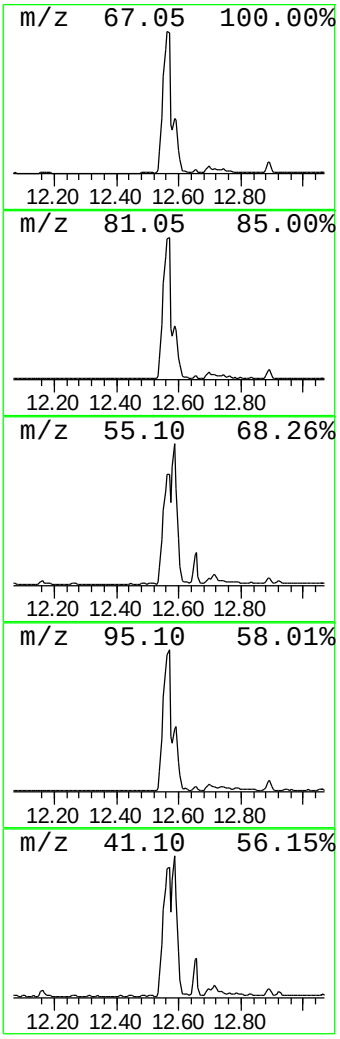
**********

Peak Number 12 10,13-Octadecadienoic acid,... Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.57 | 398.70 ng | 11538500 | Phenanthrene-d10 | 11.49 |

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



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Data File : BF110537.D
Acq On : 7 Nov 2018 1:16
Operator : JU/SJ
Sample : J5764-19 5X
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** JC-03-110218-J

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF102318.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

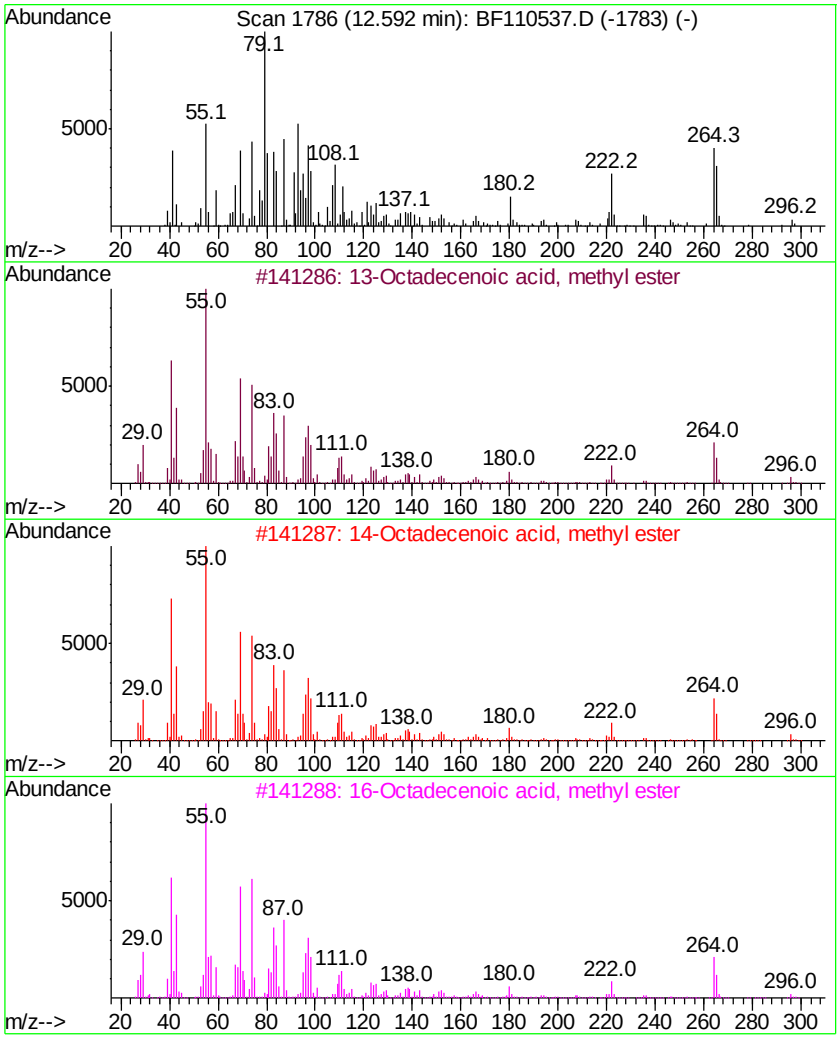
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

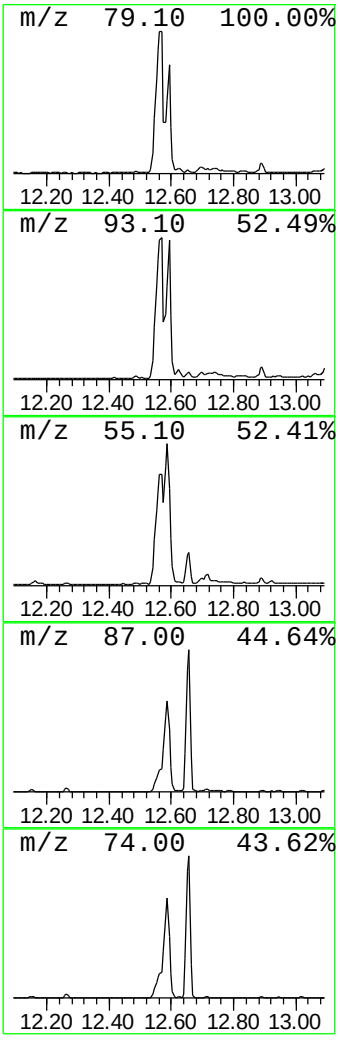
**********

Peak Number 13 13-Octadecenoic acid, methy... Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.59 | 262.37 ng | 7593110 | Phenanthrene-d10 | 11.49 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 13-Octadecenoic acid, methyl ester | 296 | C19H36O2 | 056554-47-3 | 96 |
| 2 | 14-Octadecenoic acid, methyl ester | 296 | C19H36O2 | 056554-48-4 | 95 |
| 3 | 16-Octadecenoic acid, methyl ester | 296 | C19H36O2 | 056554-49-5 | 93 |
| 4 | 9-Octadecenoic acid (Z)-, methyl... | 296 | C19H36O2 | 000112-62-9 | 93 |
| 5 | 15-Octadecenoic acid, methyl ester | 296 | C19H36O2 | 004764-72-1 | 93 |



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Acq On : 7 Nov 2018 1:16
Operator : JU/SJ
Sample : J5764-19 5X
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** JC-03-110218-J

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF102318.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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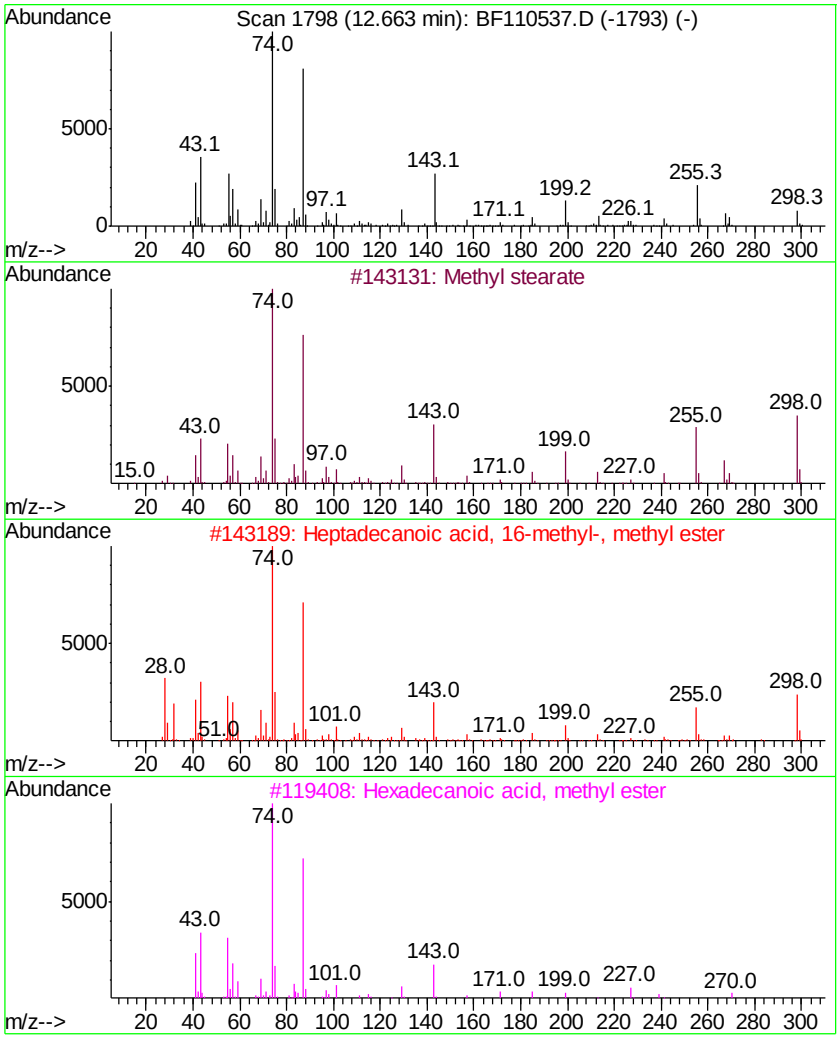
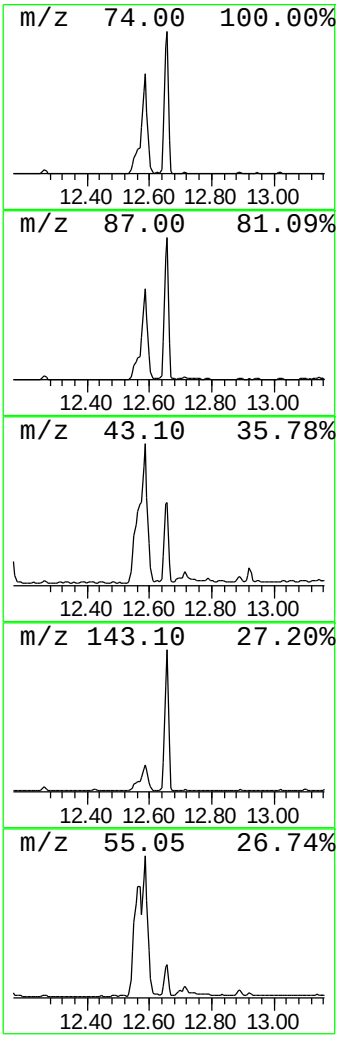
Peak Number 14 Methyl stearate Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.66 | 63.86 ng | 1848200 | Phenanthrene-d10 | 11.49 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Methyl stearate | 298 | C19H38O2 | 000112-61-8 | 98 |
| 2 | Heptadecanoic acid, 16-methyl-, ... | 298 | C19H38O2 | 005129-61-3 | 90 |
| 3 | Hexadecanoic acid, methyl ester | 270 | C17H34O2 | 000112-39-0 | 86 |
| 4 | Methyl tetradecanoate | 242 | C15H30O2 | 000124-10-7 | 86 |
| 5 | Heptadecanoic acid, methyl ester | 284 | C18H36O2 | 001731-92-6 | 86 |



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Data File : BF110537.D
Acq On : 7 Nov 2018 1:16
Operator : JU/SJ
Sample : J5764-19 5X
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** JC-03-110218-J

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF102318.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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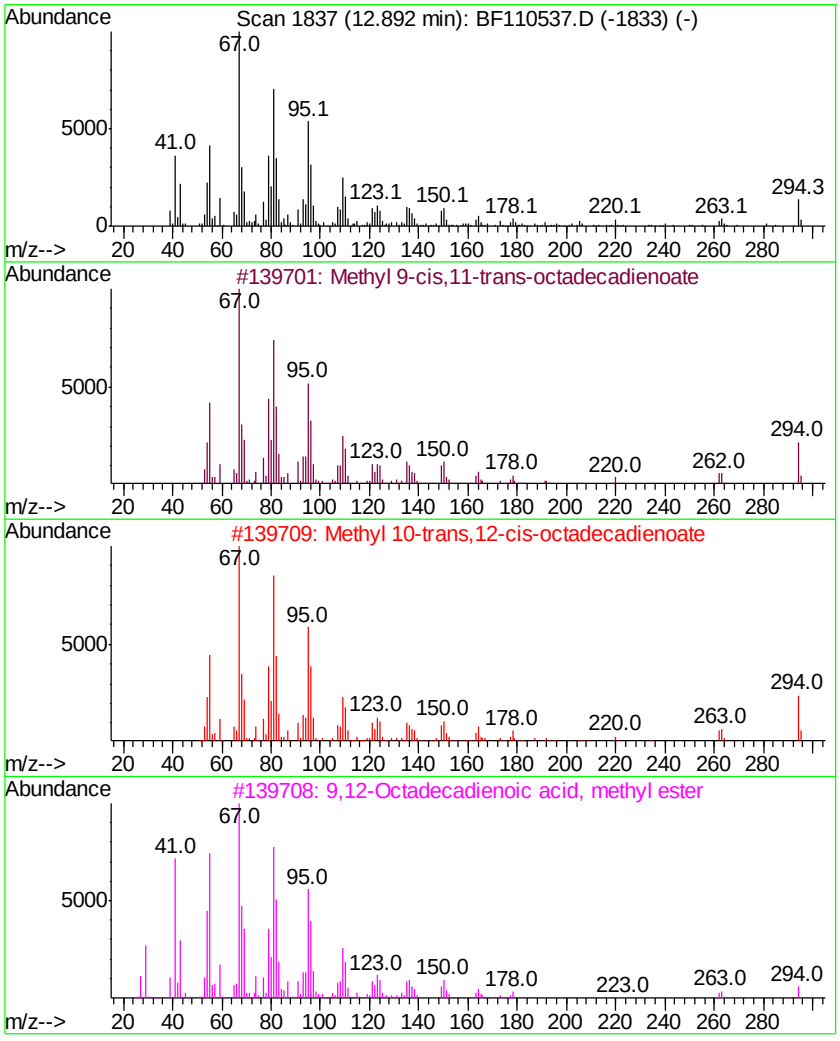
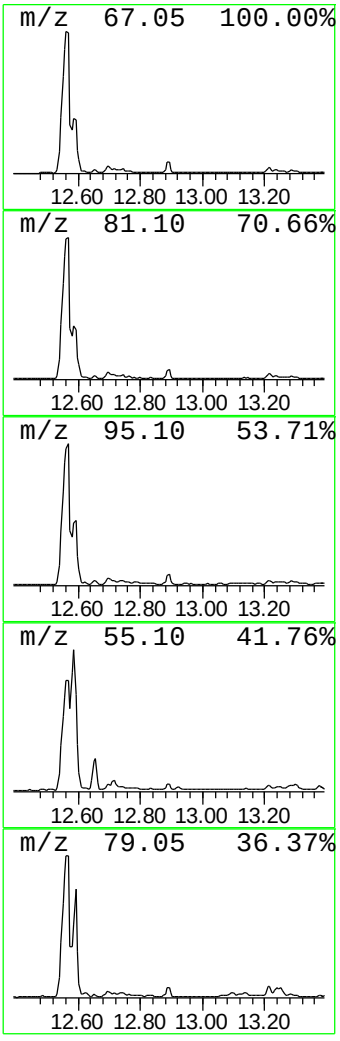
Peak Number 15 Methyl 9-cis,11-trans-octad... Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.89 | 15.38 ng | 412686 | Chrysene-d12 | 14.14 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Methyl 9-cis,11-trans-octadecadi... | 294 | C19H34O2 | 1000336-44-0 | 99 |
| 2 | Methyl 10-trans,12-cis-octadecad... | 294 | C19H34O2 | 1000336-44-2 | 99 |
| 3 | 9,12-Octadecadienoic acid, methy... | 294 | C19H34O2 | 002462-85-3 | 98 |
| 4 | 11,14-Octadecadienoic acid, meth... | 294 | C19H34O2 | 056554-61-1 | 95 |
| 5 | 9,15-Octadecadienoic acid, methy... | 294 | C19H34O2 | 017309-05-6 | 93 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF110618\
Data File : BF110537.D
Acq On : 7 Nov 2018 1:16
Operator : JU/SJ
Sample : J5764-19 5X
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** JC-03-110218-J

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF102318.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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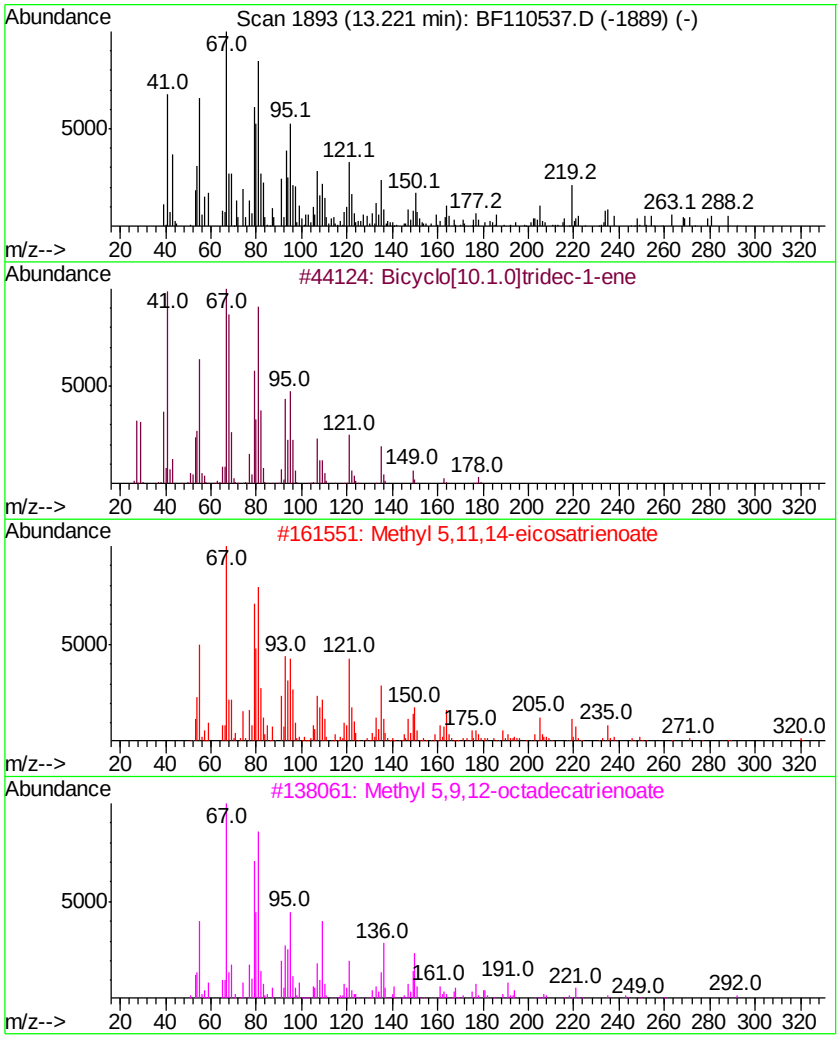
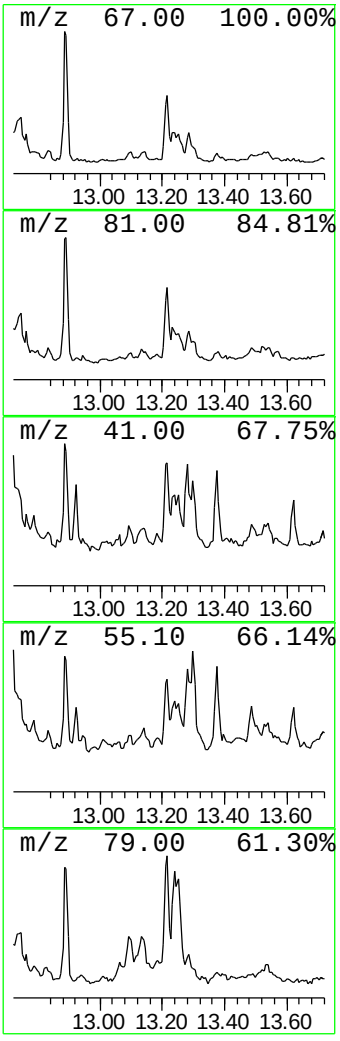
Peak Number 16 Bicyclo[10.1.0]tridec-1-ene Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.22 | 10.87 ng | 291571 | Chrysene-d12 | 14.14 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Bicyclo[10.1.0]tridec-1-ene | 178 | C13H22 | 054766-91-5 | 95 |
| 2 | Methyl 5,11,14-eicosatrienoate | 320 | C21H36O2 | 1000336-40-2 | 91 |
| 3 | Methyl 5,9,12-octadecatrienoate | 292 | C19H32O2 | 1000336-37-5 | 87 |
| 4 | 1,5-Cyclododecadiene, (Z,Z)- | 164 | C12H20 | 031821-17-7 | 68 |
| 5 | 1,5-Cyclodecadiene, (E,Z)- | 136 | C10H16 | 001124-78-3 | 55 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF110618\
Data File : BF110537.D
Acq On : 7 Nov 2018 1:16
Operator : JU/SJ
Sample : J5764-19 5X
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** JC-03-110218-J

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF102318.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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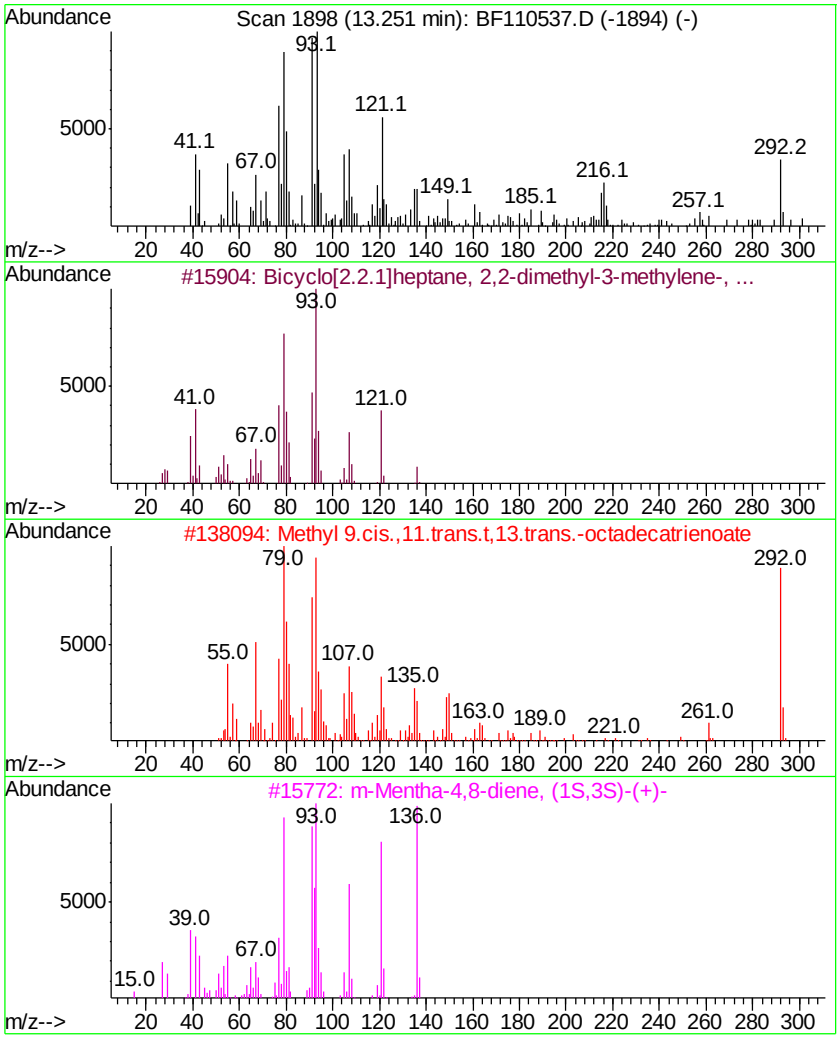
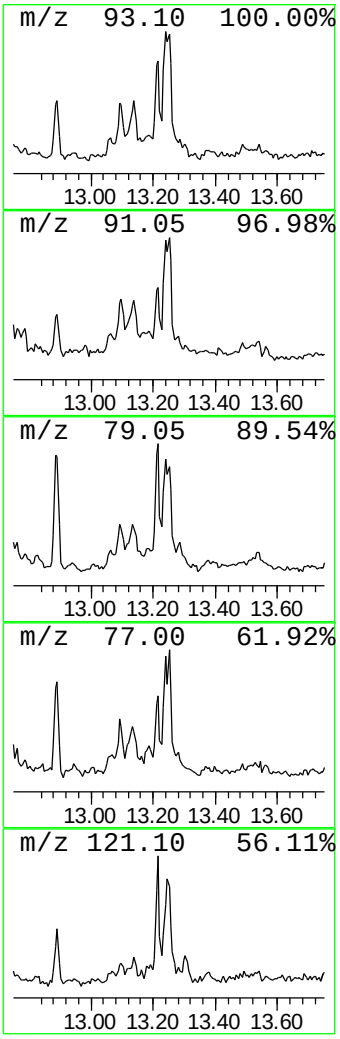
Peak Number 17 Bicyclo[2.2.1]heptane, 2,2-... Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.25 | 8.11 ng | 217548 | Chrysene-d12 | 14.14 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Bicyclo[2.2.1]heptane, 2,2-dimet... | 136 | C10H16 | 005794-03-6 | 89 |
| 2 | Methyl 9.cis.,11.trans.t,13.tran... | 292 | C19H32O2 | 1000336-42-6 | 83 |
| 3 | m-Mentha-4,8-diene, (1S,3S)-(+)- | 136 | C10H16 | 005208-51-5 | 62 |
| 4 | Bicyclo[2.2.1]heptane, 7,7-dimet... | 136 | C10H16 | 000471-84-1 | 58 |
| 5 | Cyclohexene, 5-methyl-3-(1-methy... | 136 | C10H16 | 056816-08-1 | 52 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF110618\
Data File : BF110537.D
Acq On : 7 Nov 2018 1:16
Operator : JU/SJ
Sample : J5764-19 5X
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** JC-03-110218-J

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF102318.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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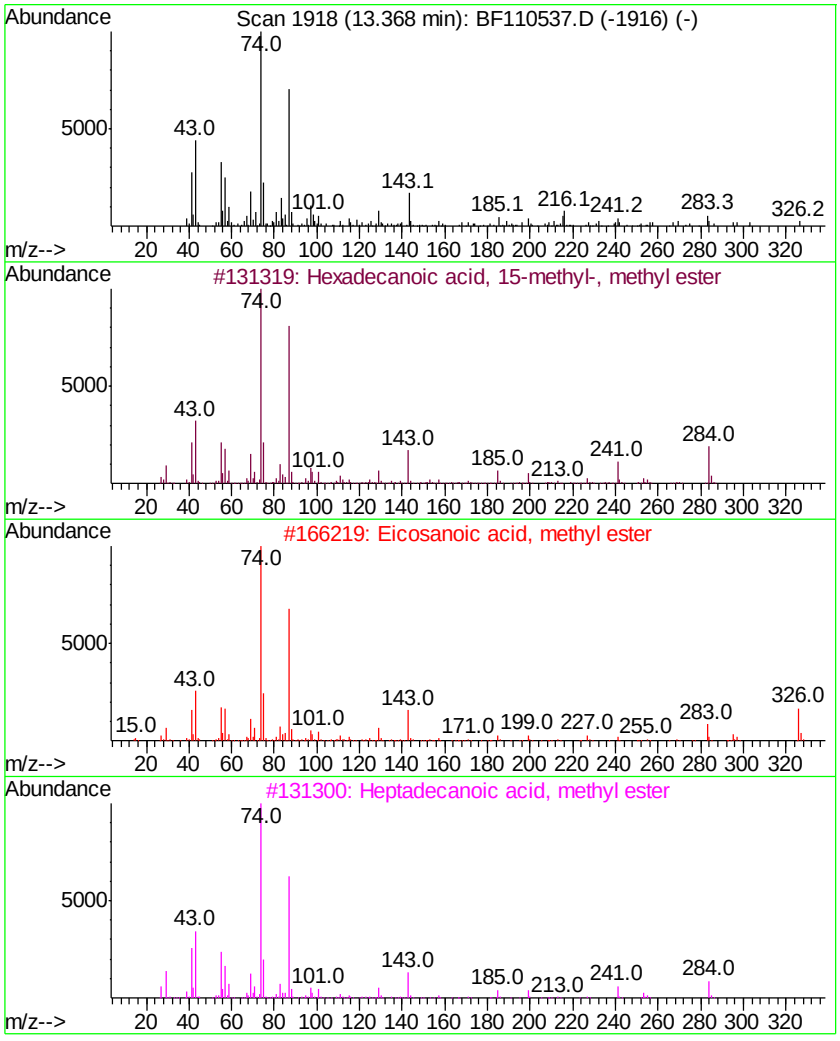
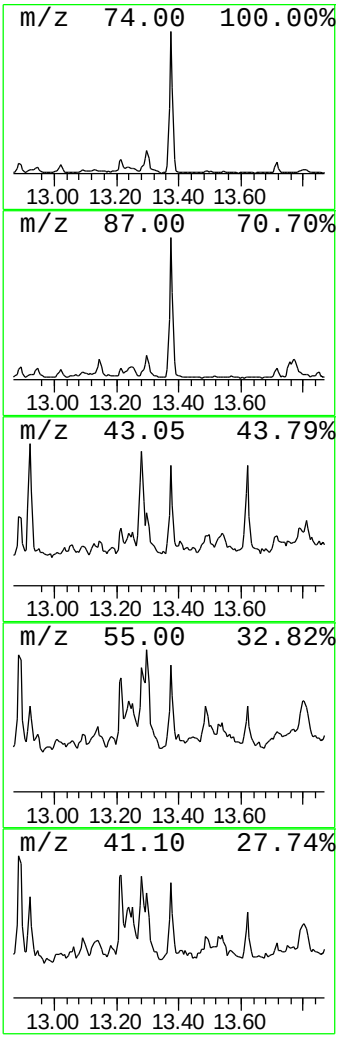
Peak Number 18 Hexadecanoic acid, 15-methy... Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.37 | 10.36 ng | 277986 | Chrysene-d12 | 14.14 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexadecanoic acid, 15-methyl-, m... | 284 | C18H36O2 | 006929-04-0 | 98 |
| 2 | Eicosanoic acid, methyl ester | 326 | C21H42O2 | 001120-28-1 | 97 |
| 3 | Heptadecanoic acid, methyl ester | 284 | C18H36O2 | 001731-92-6 | 94 |
| 4 | Nonadecanoic acid, methyl ester | 312 | C20H40O2 | 001731-94-8 | 90 |
| 5 | Hexadecanoic acid, methyl ester | 270 | C17H34O2 | 000112-39-0 | 90 |



# Library Search Compound Report

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Data File : BF110537.D
Acq On : 7 Nov 2018 1:16
Operator : JU/SJ
Sample : J5764-19 5X
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** JC-03-110218-J

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF102318.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

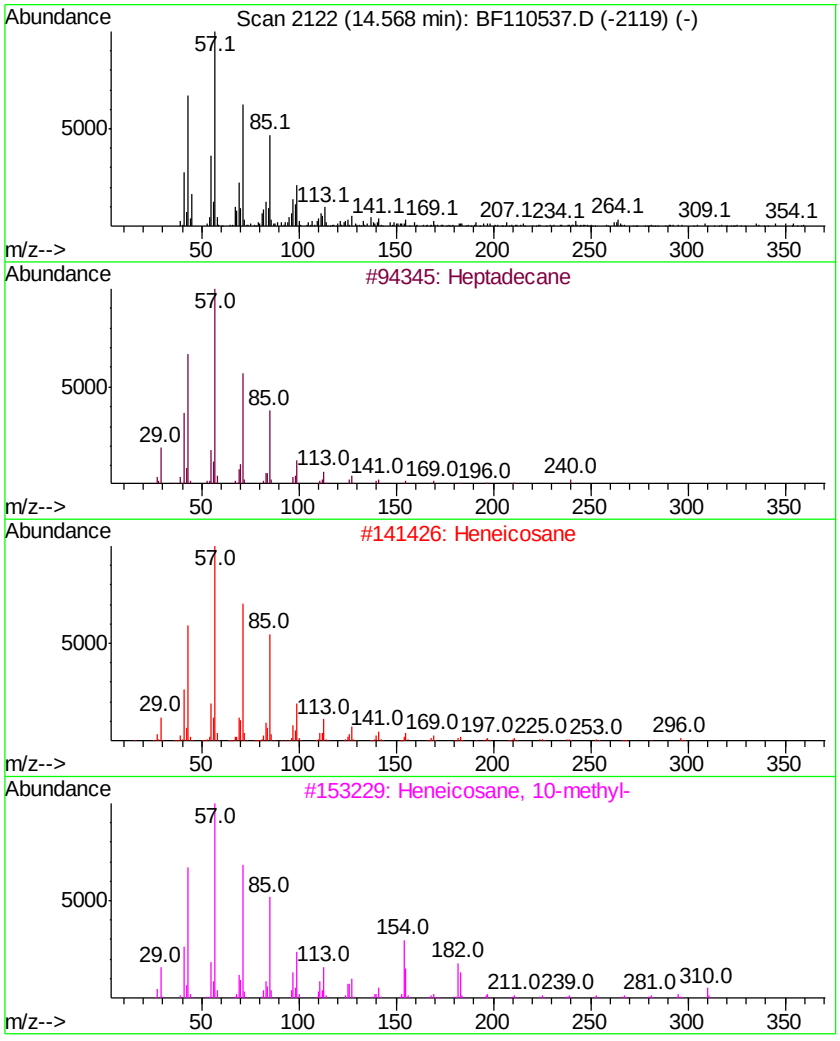
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

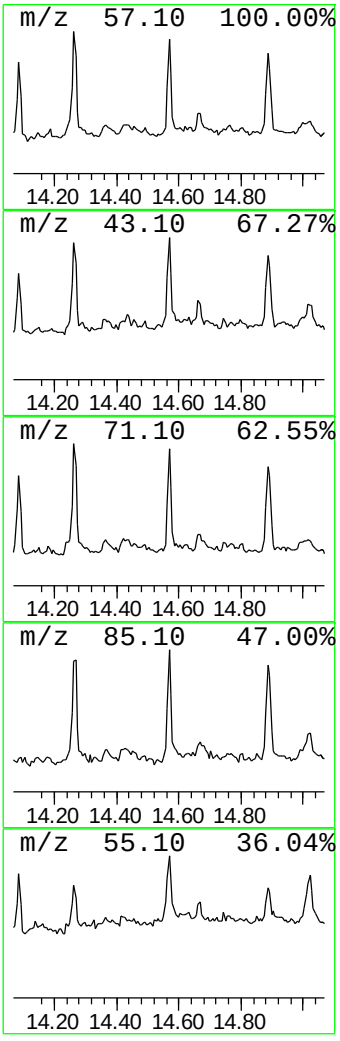
**********

Peak Number 19 Heneicosane, 10-methyl- Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.57 | 9.17 ng | 245941 | Chrysene-d12 | 14.14 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptadecane | 240 | C17H36 | 000629-78-7 | 90 |
| 2 | Heneicosane | 296 | C21H44 | 000629-94-7 | 86 |
| 3 | Heneicosane, 10-methyl- | 310 | C22H46 | 013287-25-7 | 83 |
| 4 | Octacosane | 394 | C28H58 | 000630-02-4 | 83 |
| 5 | Tetratetracontane | 619 | C44H90 | 007098-22-8 | 80 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF110618\
Data File : BF110537.D
Acq On : 7 Nov 2018 1:16
Operator : JU/SJ
Sample : J5764-19 5X
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** JC-03-110218-J

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF102318.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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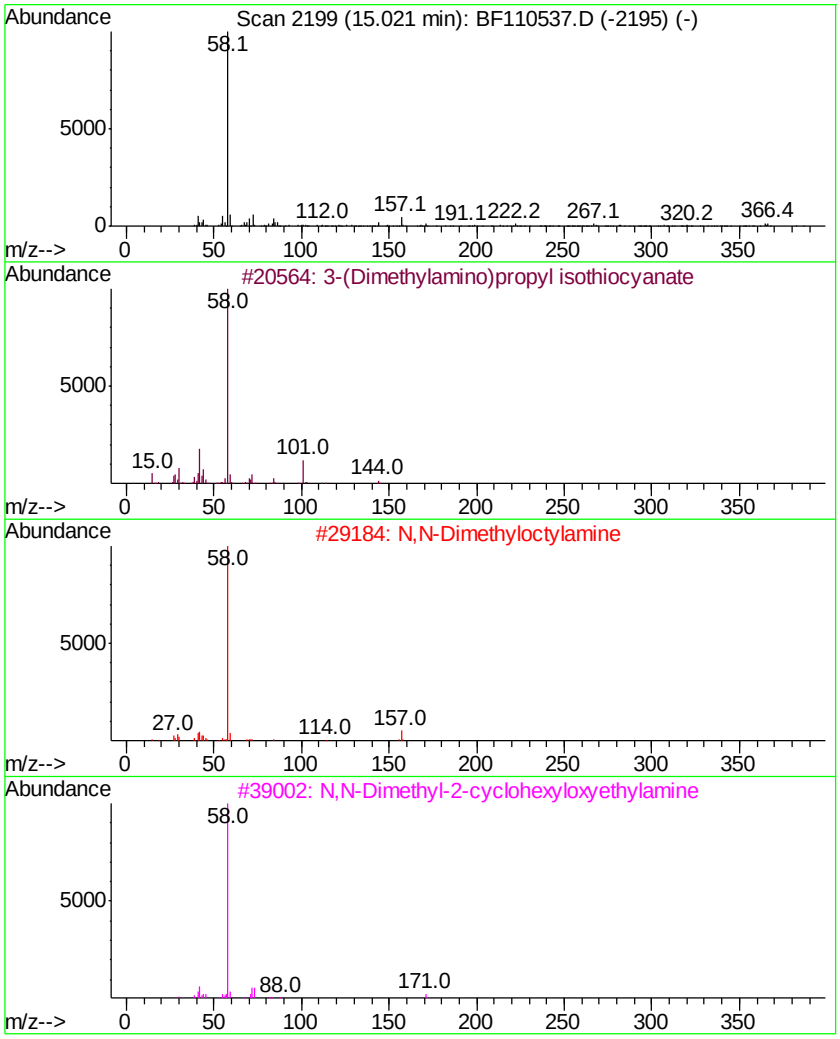
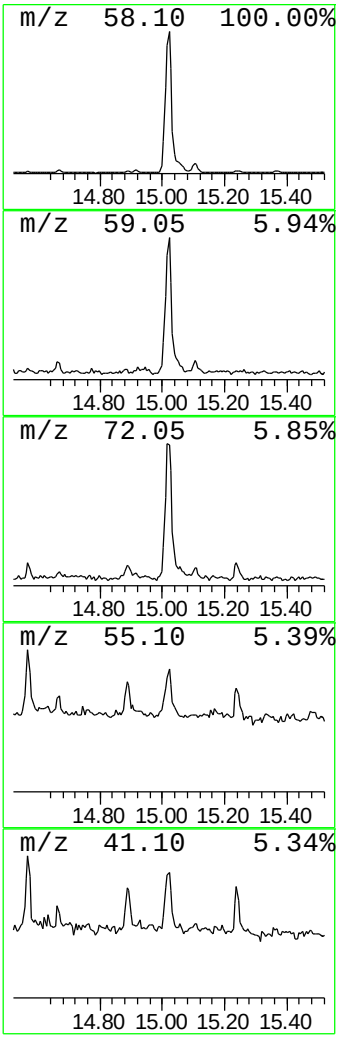
Peak Number 20 3-(Dimethylamino)propyl iso... Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.02 | 23.01 ng | 335135 | Perylene-d12 | 15.67 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-(Dimethylamino)propyl isothioc... | 144 | C6H12N2S | 027421-70-1 | 72 |
| 2 | N,N-Dimethyloctylamine | 157 | C10H23N | 007378-99-6 | 72 |
| 3 | N,N-Dimethyl-2-cyclohexyloxyethy... | 171 | C10H21NO | 071126-60-8 | 64 |
| 4 | S-[2-[N,N-Dimethylaminolethyl]mo... | 261 | C10H19N3O3S | 1000212-14-3 | 64 |
| 5 | [+]-2,4-Dihydroxy-3,3-dimethyl-N... | 232 | C11H24N2O3 | 1000253-94-2 | 56 |



# Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF110618\
Data File : BF110537.D
Acq On : 7 Nov 2018 1:16
Operator : JU/SJ
Sample : J5764-19 5X
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** JC-03-110218-J

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF102318.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 | 10.6 | ng | 292436 | 1 | 6.96 | 551450 | 20.0 |
| Pentadecane | 9.90 | 8.4 | ng | 234358 | 3 | 10.00 | 555684 | 20.0 |
| Bacchotricuneatin c | 10.40 | 10.7 | ng | 297746 | 3 | 10.00 | 555684 | 20.0 |
| 5-Ethyldecane | 10.63 | 7.2 | ng | 200549 | 3 | 10.00 | 555684 | 20.0 |
| Heptadecane | 10.88 | 16.5 | ng | 476291 | 4 | 11.49 | 578809 | 20.0 |
| Octadecane | 11.33 | 9.6 | ng | 278076 | 4 | 11.49 | 578809 | 20.0 |
| Heptacosane | 11.76 | 8.3 | ng | 238855 | 4 | 11.49 | 578809 | 20.0 |
| Hexadecanoic acid... | 11.86 | 128.0 | ng | 3704910 | 4 | 11.49 | 578809 | 20.0 |
| n-Hexadecanoic acid | 12.00 | 10.7 | ng | 309177 | 4 | 11.49 | 578809 | 20.0 |
| Heneicosane | 12.16 | 8.2 | ng | 236088 | 4 | 11.49 | 578809 | 20.0 |
| 10,13-Octadecadie... | 12.57 | 398.7 | ng | 11538500 | 4 | 11.49 | 578809 | 20.0 |
| 13-Octadecenoic a... | 12.59 | 262.4 | ng | 7593110 | 4 | 11.49 | 578809 | 20.0 |
| Methyl stearate | 12.66 | 63.9 | ng | 1848200 | 4 | 11.49 | 578809 | 20.0 |
| Methyl 9-cis,11-t... | 12.89 | 15.4 | ng | 412686 | 5 | 14.14 | 536562 | 20.0 |
| Bicyclo[10.1.0]tr... | 13.22 | 10.9 | ng | 291571 | 5 | 14.14 | 536562 | 20.0 |
| Bicyclo[2.2.1]hep... | 13.25 | 8.1 | ng | 217548 | 5 | 14.14 | 536562 | 20.0 |
| Hexadecanoic acid... | 13.37 | 10.4 | ng | 277986 | 5 | 14.14 | 536562 | 20.0 |
| Heneicosane, 10-m... | 14.57 | 9.2 | ng | 245941 | 5 | 14.14 | 536562 | 20.0 |
| 3-(Dimethylamino)... | 15.02 | 23.0 | ng | 335135 | 6 | 15.67 | 291249 | 20.0 |