LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF020619\
Data File : BF112419.D
Acq On : 6 Feb 2019 14:52
Operator : JU/SJ
Sample : K1338-03 5X
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** AU-06-020519-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-BF012519.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 | 4.557 | 415 | 420 | 425 | rVB4 | 10004 | 14364 | 1.08% | 0.099% |
| 2 | 5.040 | 499 | 502 | 506 | rBV | 17661 | 20259 | 1.53% | 0.139% |
| 3 | 5.463 | 571 | 574 | 590 | rBV | 406504 | 505944 | 38.09% | 3.475% |
| 4 | 6.481 | 743 | 747 | 765 | rBV | 408316 | 558458 | 42.04% | 3.836% |
| 5 | 6.604 | 765 | 768 | 778 | rBV | 603826 | 600717 | 45.22% | 4.126% |
| 6 | 6.828 | 803 | 806 | 816 | rBV | 860199 | 828326 | 62.36% | 5.690% |
| 7 | 6.987 | 829 | 833 | 843 | rBV | 519604 | 462687 | 34.83% | 3.178% |
| 8 | 7.392 | 899 | 902 | 913 | rBV | 314402 | 344003 | 25.90% | 2.363% |
| 9 | 8.110 | 1020 | 1024 | 1033 | rBV | 1078297 | 1097434 | 82.62% | 7.538% |
| 10 | 8.169 | 1033 | 1034 | 1038 | rVB | 19135 | 16458 | 1.24% | 0.113% |
| 11 | 8.486 | 1085 | 1088 | 1093 | rBV4 | 15505 | 16376 | 1.23% | 0.112% |
| 12 | 8.534 | 1093 | 1096 | 1098 | rBV | 34585 | 30011 | 2.26% | 0.206% |
| 13 | 9.186 | 1201 | 1207 | 1218 | rBV | 728734 | 668465 | 50.32% | 4.592% |
| 14 | 9.581 | 1271 | 1274 | 1282 | rBV | 37150 | 43414 | 3.27% | 0.298% |
| 15 | 9.798 | 1303 | 1311 | 1313 | rBV4 | 11087 | 18428 | 1.39% | 0.127% |
| 16 | 9.869 | 1318 | 1323 | 1334 | rVB | 1452447 | 1310993 | 98.70% | 9.005% |
| 17 | 10.657 | 1454 | 1457 | 1470 | rBV | 401010 | 439859 | 33.11% | 3.021% |
| 18 | 10.769 | 1473 | 1476 | 1483 | rVB4 | 9815 | 18494 | 1.39% | 0.127% |
| 19 | 11.357 | 1572 | 1576 | 1588 | rBV | 1479891 | 1328317 | 100.00% | 9.124% |
| 20 | 11.739 | 1637 | 1641 | 1645 | rBV | 400628 | 322834 | 24.30% | 2.218% |
| 21 | 11.874 | 1659 | 1664 | 1672 | rBV4 | 38982 | 66301 | 4.99% | 0.455% |
| 22 | 12.422 | 1753 | 1757 | 1759 | rBV | 1151109 | 1020153 | 76.80% | 7.007% |
| 23 | 12.445 | 1759 | 1761 | 1764 | rVB | 1305869 | 994683 | 74.88% | 6.832% |
| 24 | 12.527 | 1772 | 1775 | 1780 | rVB | 213527 | 173710 | 13.08% | 1.193% |
| 25 | 12.574 | 1780 | 1783 | 1787 | rBV | 33475 | 39294 | 2.96% | 0.270% |
| 26 | 12.663 | 1795 | 1798 | 1803 | rBV5 | 12082 | 17168 | 1.29% | 0.118% |
| 27 | 12.804 | 1819 | 1822 | 1824 | rBV | 35736 | 32133 | 2.42% | 0.221% |
| 28 | 12.933 | 1840 | 1844 | 1852 | rVB | 690254 | 610213 | 45.94% | 4.192% |
| 29 | 13.257 | 1896 | 1899 | 1903 | rVB4 | 13658 | 14212 | 1.07% | 0.098% |
| 30 | 13.504 | 1938 | 1941 | 1943 | rVB3 | 18959 | 16866 | 1.27% | 0.116% |
| 31 | 13.827 | 1992 | 1996 | 1999 | rBV | 68938 | 80817 | 6.08% | 0.555% |
| 32 | 13.921 | 2010 | 2012 | 2016 | rBV4 | 14896 | 16786 | 1.26% | 0.115% |
| 33 | 13.998 | 2021 | 2025 | 2035 | rBV | 1014019 | 966910 | 72.79% | 6.642% |
| 34 | 14.145 | 2047 | 2050 | 2053 | rBV | 57747 | 46032 | 3.47% | 0.316% |

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF020619\
Data File : BF112419.D
Acq On : 6 Feb 2019 14:52
Operator : JU/SJ
Sample : K1338-03 5X
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** AU-06-020519-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-BF012519.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 14.451 | 2099 | 2102 | 2106 | rBV | 77277 | 70357 | 5.30% | 0.483% |
| 36 | 14.751 | 2150 | 2153 | 2157 | rVB | 95849 | 87782 | 6.61% | 0.603% |
| 37 | 15.080 | 2206 | 2209 | 2216 | rVB | 134985 | 181780 | 13.68% | 1.249% |
| 38 | 15.468 | 2269 | 2275 | 2282 | rBV | 802560 | 1092539 | 82.25% | 7.505% |
| 39 | 15.886 | 2342 | 2346 | 2352 | rBV | 147848 | 217379 | 16.36% | 1.493% |
| 40 | 16.386 | 2426 | 2431 | 2437 | rVB2 | 93132 | 167261 | 12.59% | 1.149% |

Sum of corrected areas: 14558217

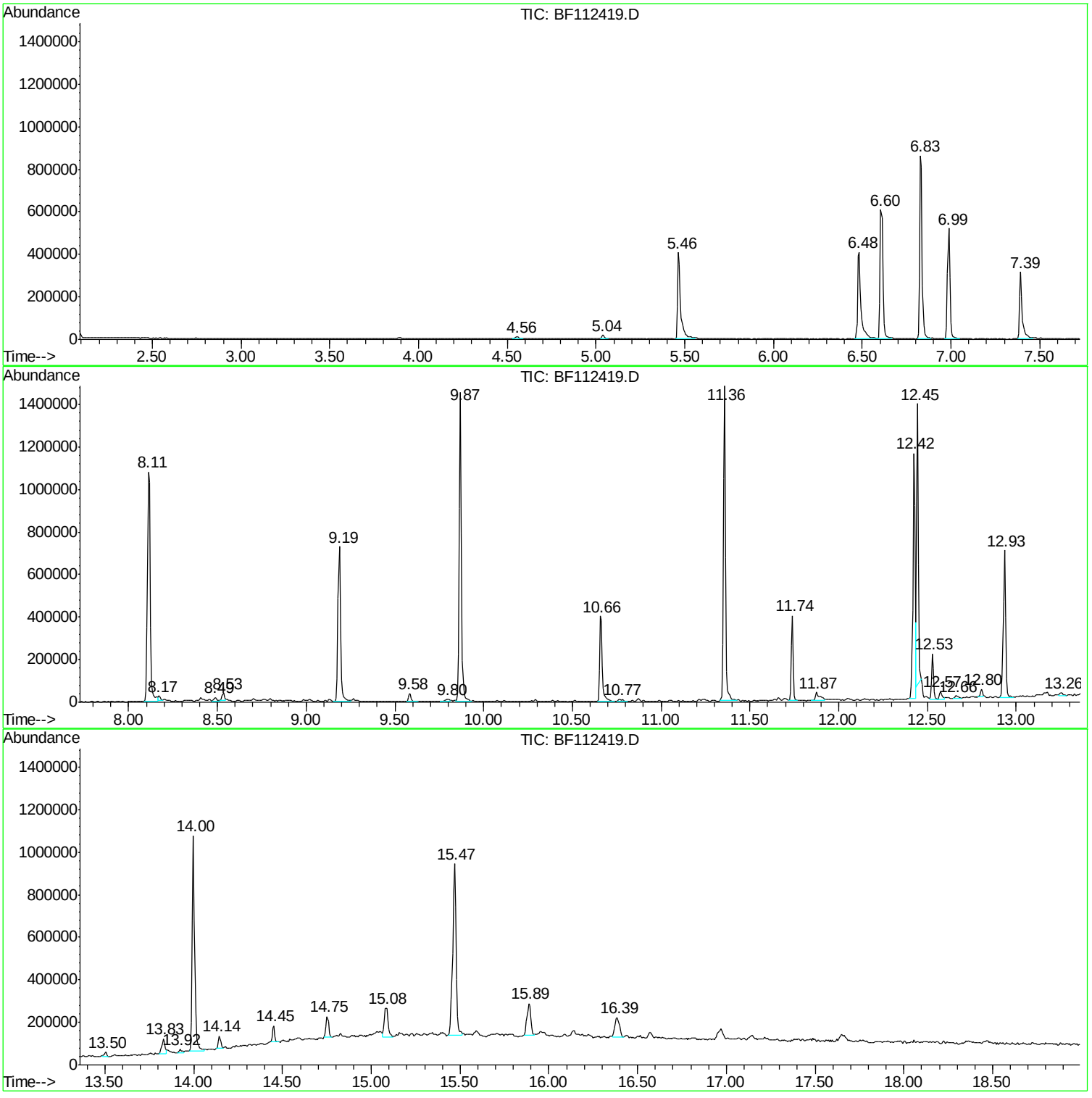
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF020619\
Data File : BF112419.D
Acq On : 6 Feb 2019 14:52
Operator : JU/SJ
Sample : K1338-03 5X
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** AU-06-020519-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF012519.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\BF020619\
Data File : BF112419.D
Acq On : 6 Feb 2019 14:52
Operator : JU/SJ
Sample : K1338-03 5X
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** AU-06-020519-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF012519.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

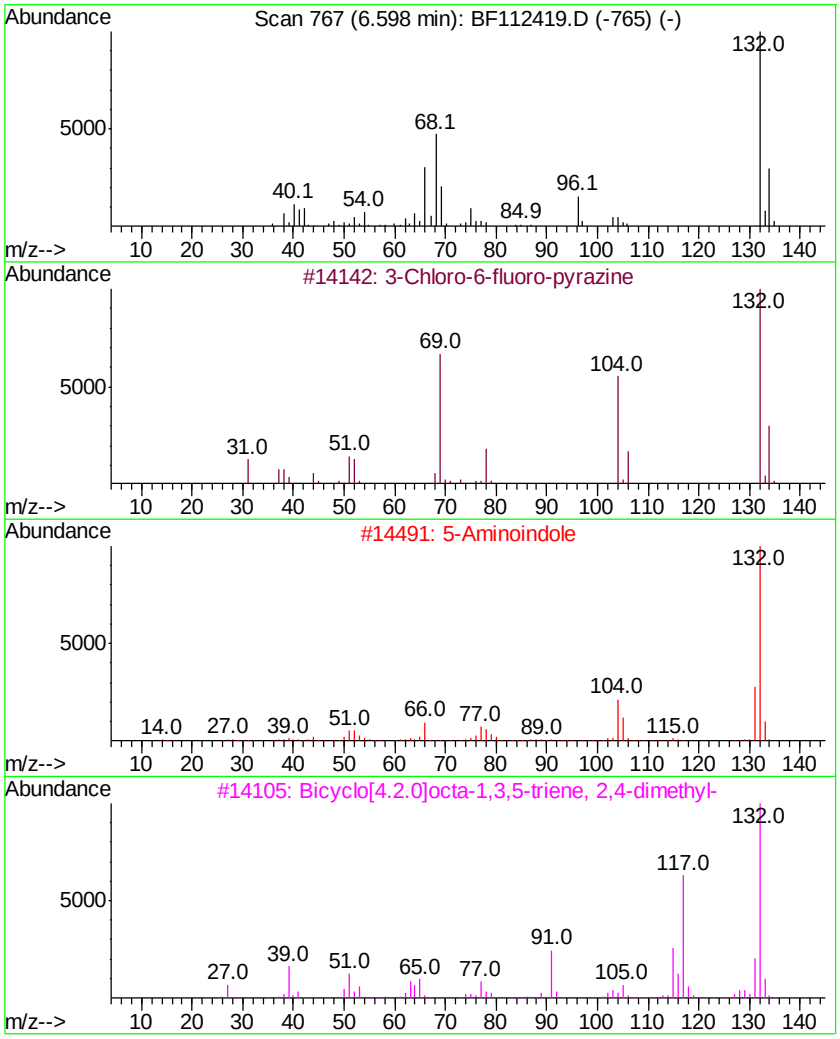
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

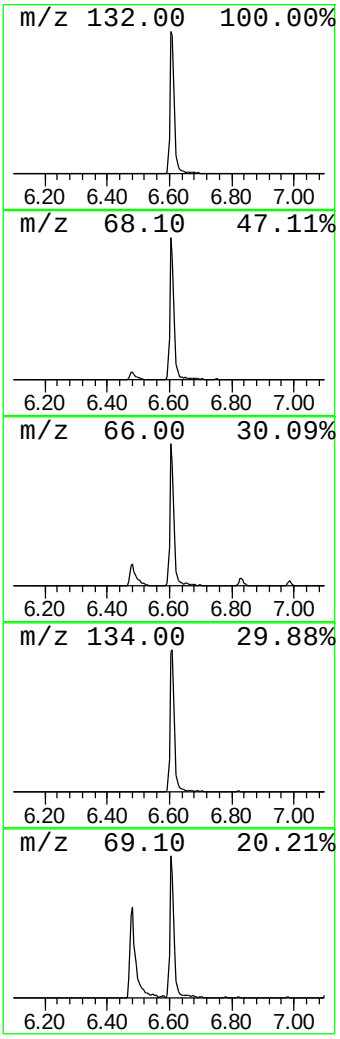
**********

Peak Number 1 unknown6.60 Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.60 | 14.50 ng | 600717 | 1,4-Dichlorobenzene-d4 | 6.83 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Chloro-6-fluoro-pyrazine | 132 | C4H2ClFN2 | 1000146-10-7 | 16 |
| 2 | 5-Aminoindole | 132 | C8H8N2 | 005192-03-0 | 12 |
| 3 | Bicyclo[4.2.0]octa-1,3,5-triene,... | 132 | C10H12 | 028749-81-7 | 9 |
| 4 | Benzene, 1-ethenyl-3,5-dimethyl- | 132 | C10H12 | 005379-20-4 | 9 |
| 5 | 4-Methylpyrrolo[1,2-a]pyrazine | 132 | C8H8N2 | 064608-60-2 | 9 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF020619\
Data File : BF112419.D
Acq On : 6 Feb 2019 14:52
Operator : JU/SJ
Sample : K1338-03 5X
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** AU-06-020519-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF012519.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

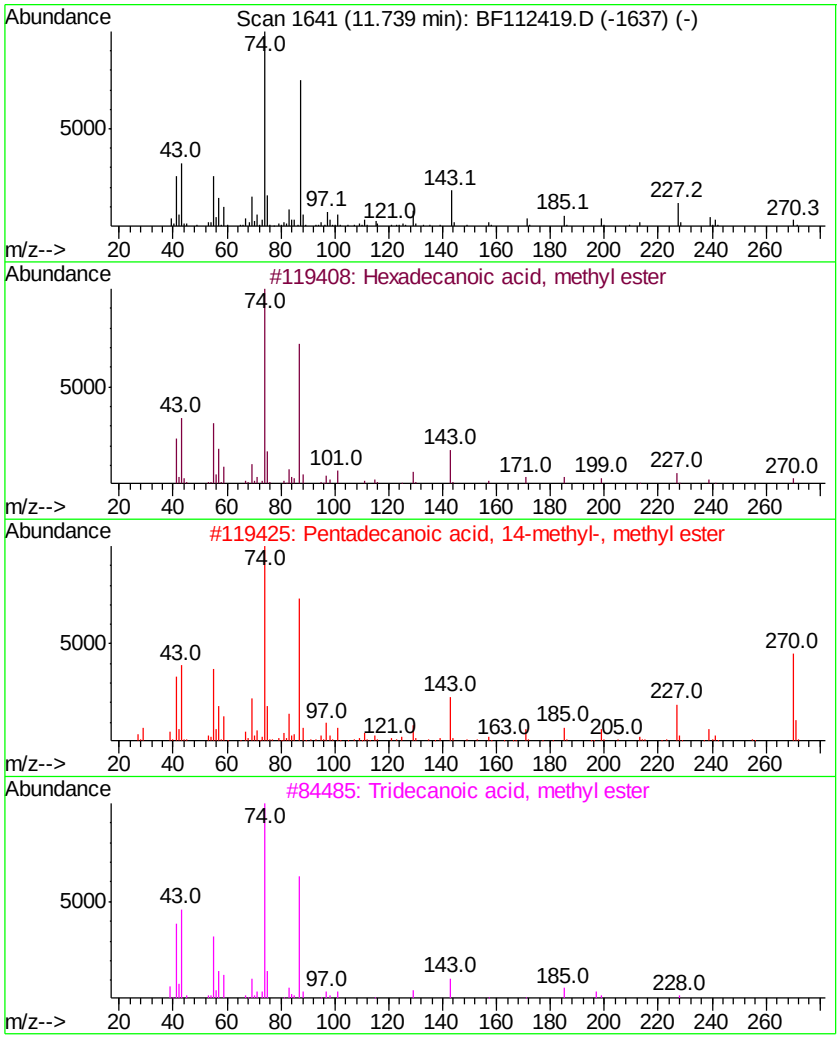
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

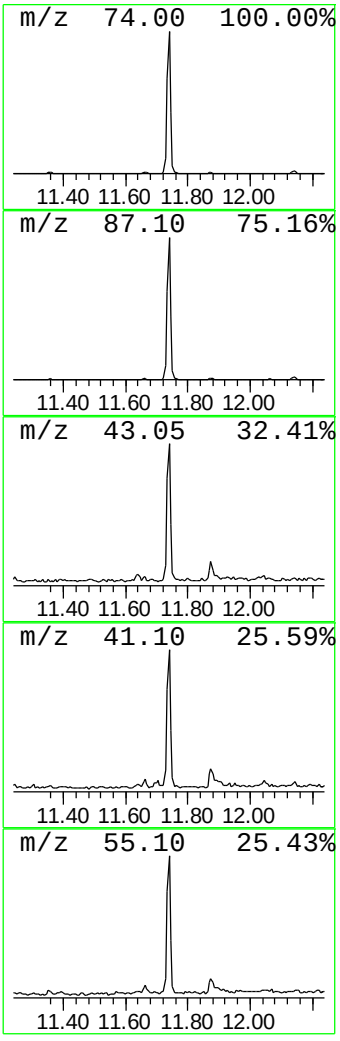
**********

Peak Number 3 Hexadecanoic acid, methyl e... Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.74 | 4.86 ng | 322834 | Phenanthrene-d10 | 11.36 |

| 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 | 97 |
| 3 | Tridecanoic acid, methyl ester | 228 | C14H28O2 | 001731-88-0 | 93 |
| 4 | Decanoic acid, methyl ester | 186 | C11H22O2 | 000110-42-9 | 87 |
| 5 | Pentadecanoic acid, methyl ester | 256 | C16H32O2 | 007132-64-1 | 86 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF020619\
Data File : BF112419.D
Acq On : 6 Feb 2019 14:52
Operator : JU/SJ
Sample : K1338-03 5X
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** AU-06-020519-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF012519.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

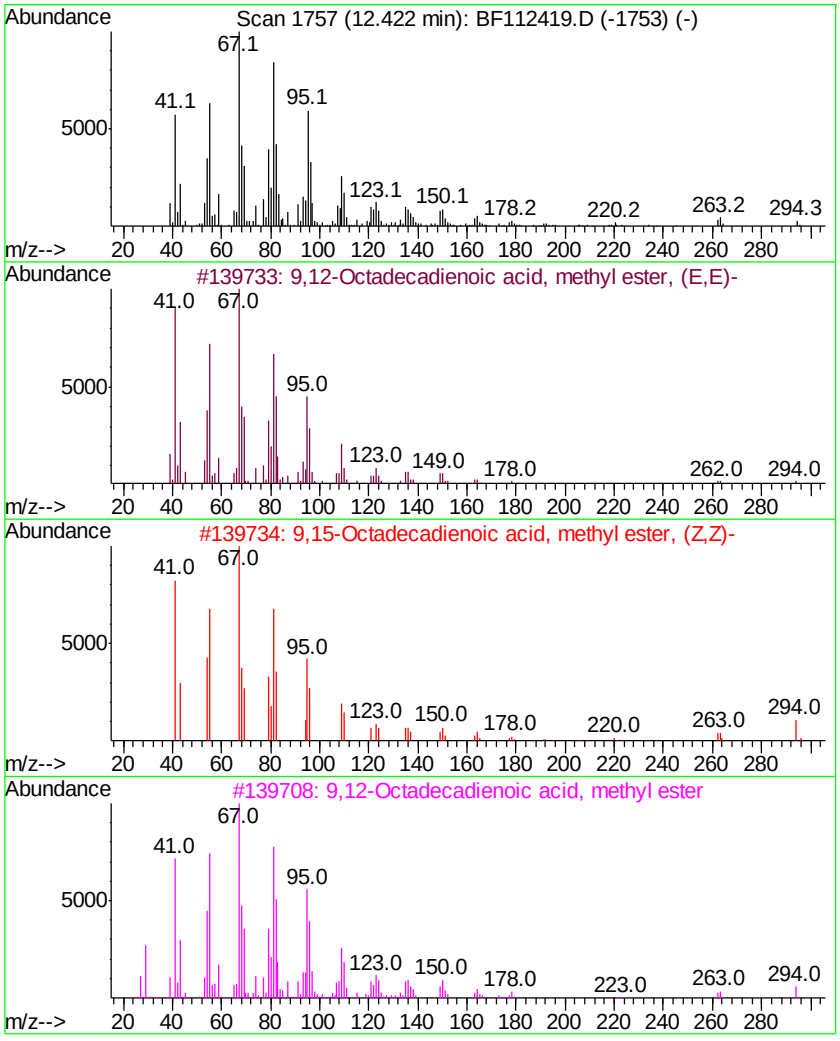
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

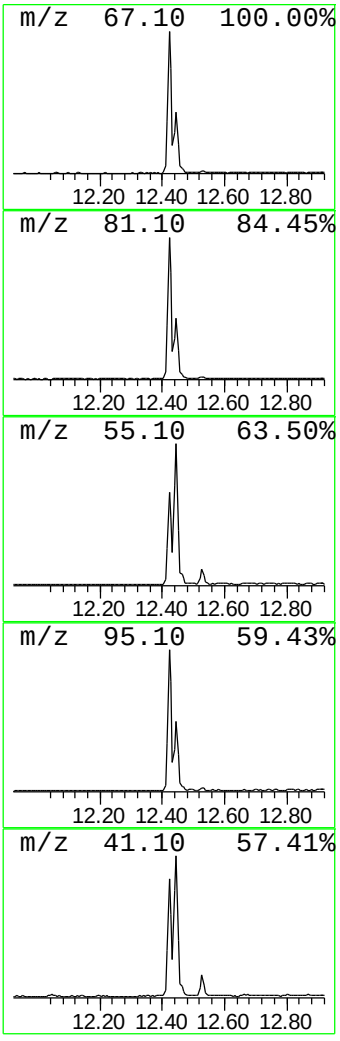
**********

Peak Number 4 9,12-Octadecadienoic acid, ... Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.42 | 15.36 ng | 1020150 | Phenanthrene-d10 | 11.36 |

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



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF020619\
Data File : BF112419.D
Acq On : 6 Feb 2019 14:52
Operator : JU/SJ
Sample : K1338-03 5X
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** AU-06-020519-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF012519.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

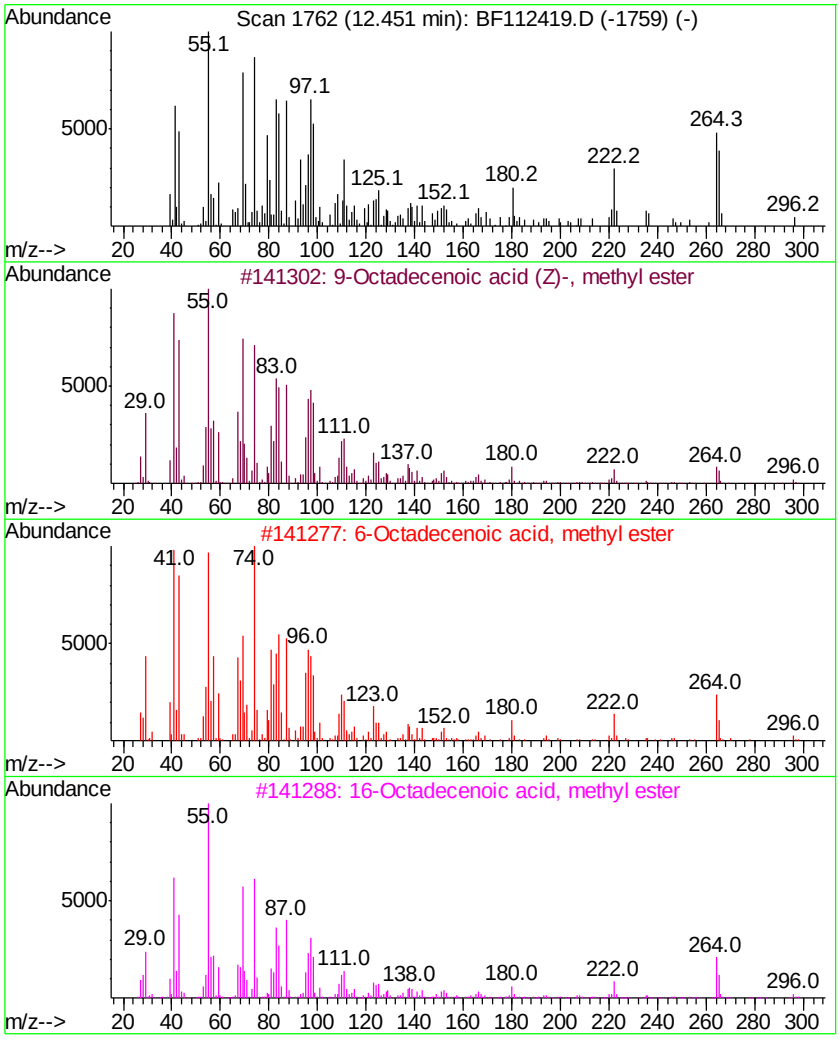
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

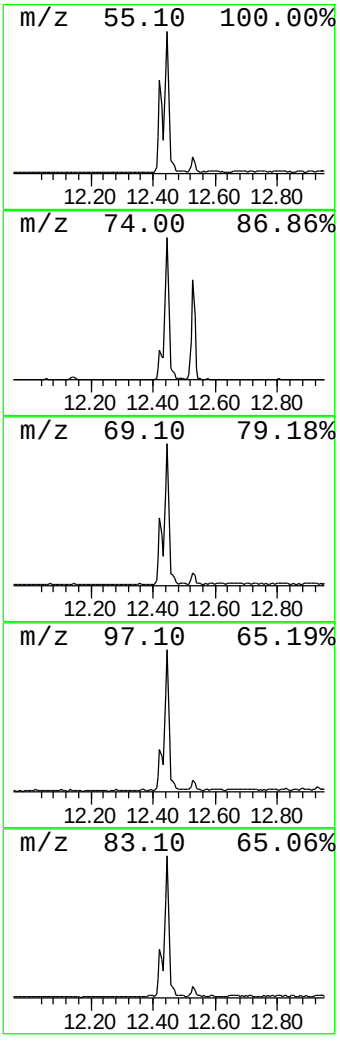
**********

Peak Number 5 9-Octadecenoic acid (Z)-, m... Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.45 | 14.98 ng | 994683 | Phenanthrene-d10 | 11.36 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 9-Octadecenoic acid (Z)-, methyl... | 296 | C19H36O2 | 000112-62-9 | 99 |
| 2 | 6-Octadecenoic acid, methyl ester | 296 | C19H36O2 | 052355-31-4 | 99 |
| 3 | 16-Octadecenoic acid, methyl ester | 296 | C19H36O2 | 056554-49-5 | 99 |
| 4 | 9-Octadecenoic acid, methyl este... | 296 | C19H36O2 | 001937-62-8 | 99 |
| 5 | 10-Octadecenoic acid, methyl ester | 296 | C19H36O2 | 013481-95-3 | 99 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF020619\
Data File : BF112419.D
Acq On : 6 Feb 2019 14:52
Operator : JU/SJ
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Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** AU-06-020519-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF012519.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

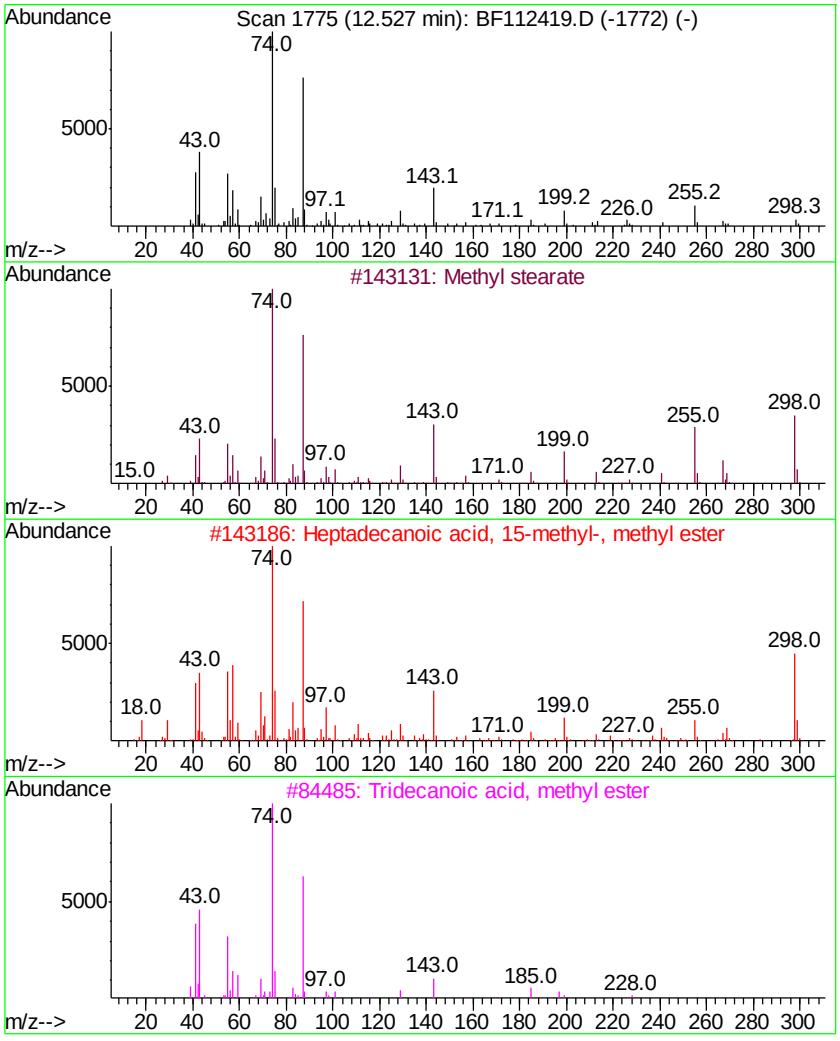
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

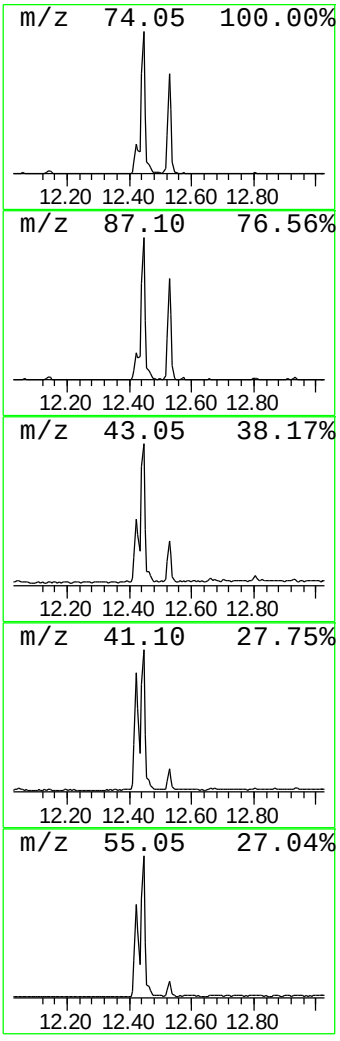
**********

Peak Number 6 Methyl stearate Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.53 | 2.62 ng | 173710 | Phenanthrene-d10 | 11.36 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Methyl stearate | 298 | C19H38O2 | 000112-61-8 | 98 |
| 2 | Heptadecanoic acid, 15-methyl-, ... | 298 | C19H38O2 | 054833-55-5 | 93 |
| 3 | Tridecanoic acid, methyl ester | 228 | C14H28O2 | 001731-88-0 | 93 |
| 4 | Heptadecanoic acid, 16-methyl-, ... | 298 | C19H38O2 | 005129-61-3 | 90 |
| 5 | Methyl tetradecanoate | 242 | C15H30O2 | 000124-10-7 | 83 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF020619\
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Operator : JU/SJ
Sample : K1338-03 5X
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** AU-06-020519-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF012519.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

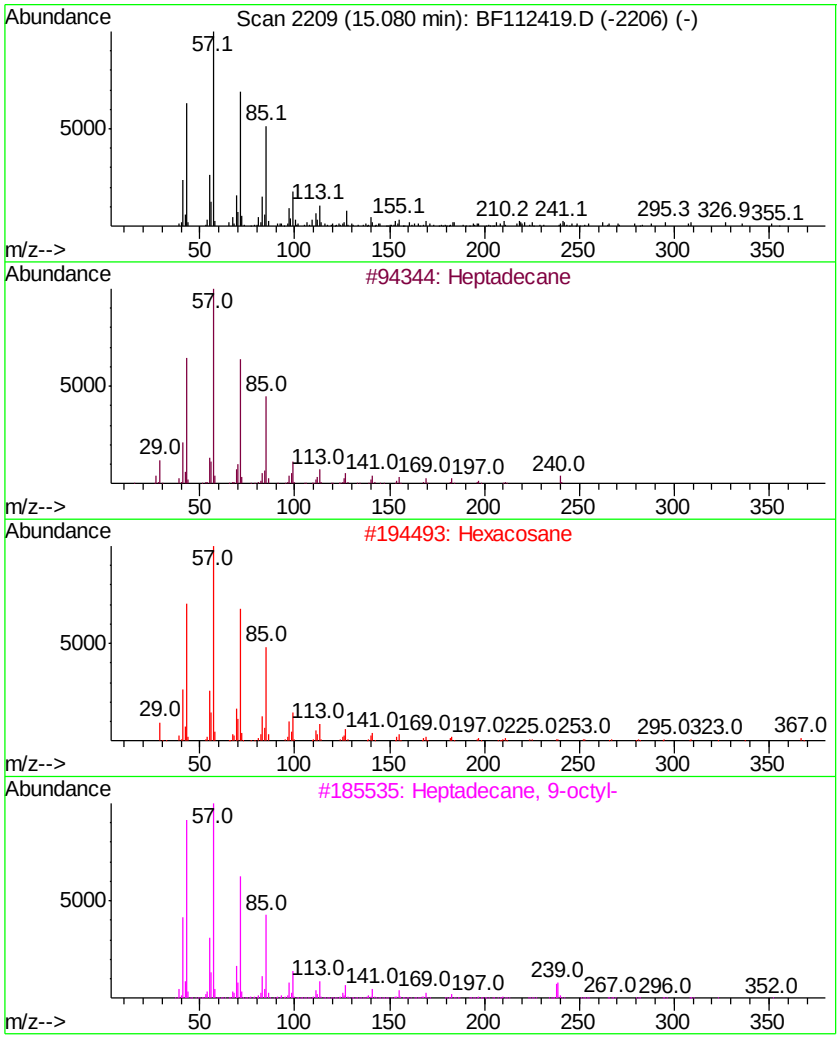
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

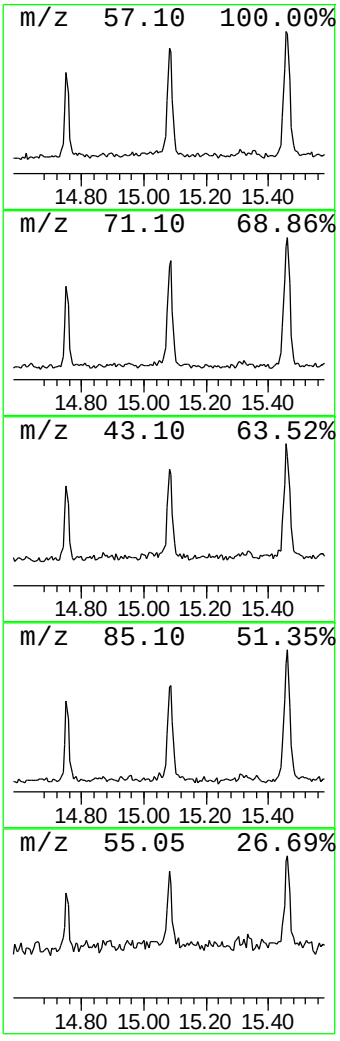
**********

Peak Number 7 Heptadecane Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.08 | 3.33 ng | 181780 | Perylene-d12 | 15.47 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptadecane | 240 | C17H36 | 000629-78-7 | 91 |
| 2 | Hexacosane | 366 | C26H54 | 000630-01-3 | 90 |
| 3 | Heptadecane, 9-octyl- | 352 | C25H52 | 007225-64-1 | 87 |
| 4 | 2-methyloctacosane | 408 | C29H60 | 1000376-72-8 | 87 |
| 5 | Heneicosane | 296 | C21H44 | 000629-94-7 | 87 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF020619\
Data File : BF112419.D
Acq On : 6 Feb 2019 14:52
Operator : JU/SJ
Sample : K1338-03 5X
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** AU-06-020519-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF012519.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

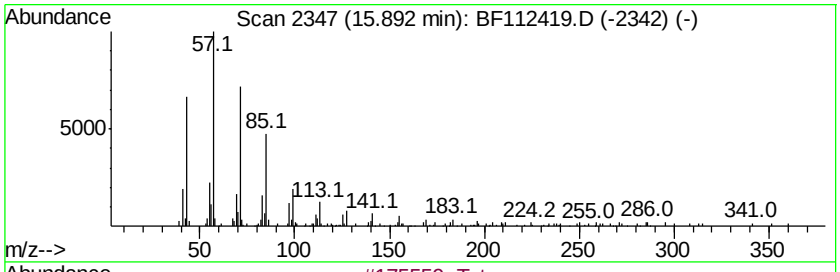
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

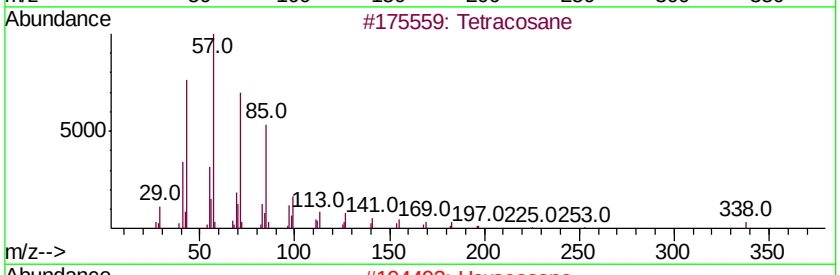
**********

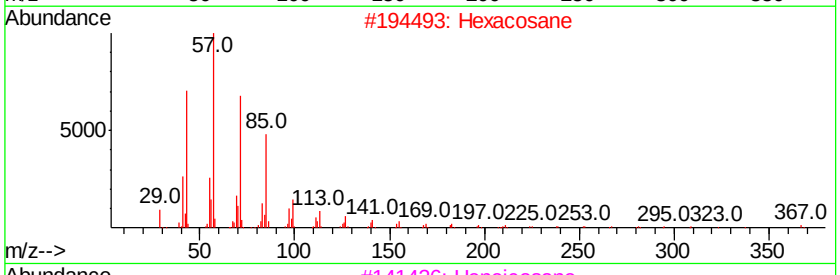
Peak Number 8 Tetracosane Concentration Rank 6

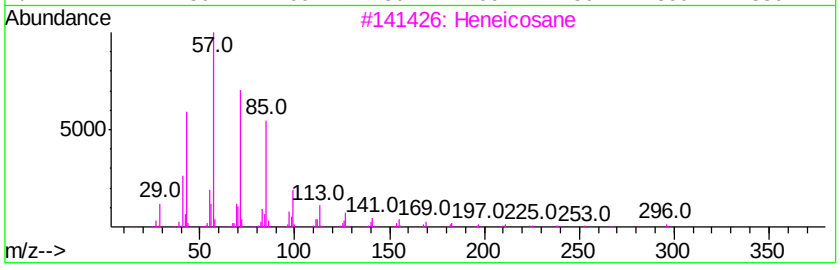
| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.89 | 3.98 ng | 217379 | Perylene-d12 | 15.47 |

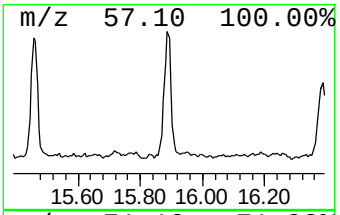
| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Tetracosane | 338 | C24H50 | 000646-31-1 | 91 |
| 2 | Hexacosane | 366 | C26H54 | 000630-01-3 | 91 |
| 3 | Heneicosane | 296 | C21H44 | 000629-94-7 | 91 |
| 4 | Heptadecane, 9-octyl- | 352 | C25H52 | 007225-64-1 | 91 |
| 5 | Docosane, 7-hexyl- | 394 | C28H58 | 055373-86-9 | 91 |

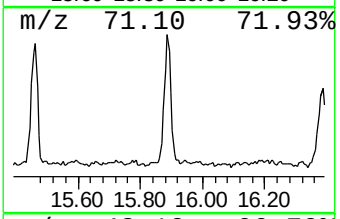


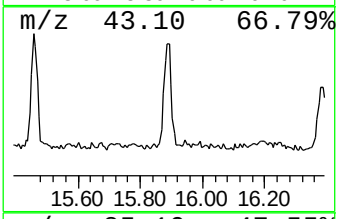



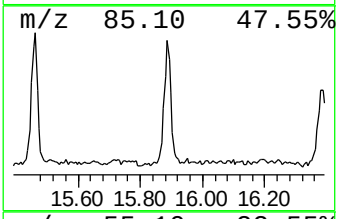



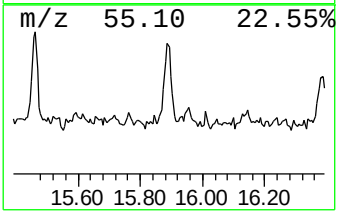



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF020619\
Data File : BF112419.D
Acq On : 6 Feb 2019 14:52
Operator : JU/SJ
Sample : K1338-03 5X
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** AU-06-020519-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF012519.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

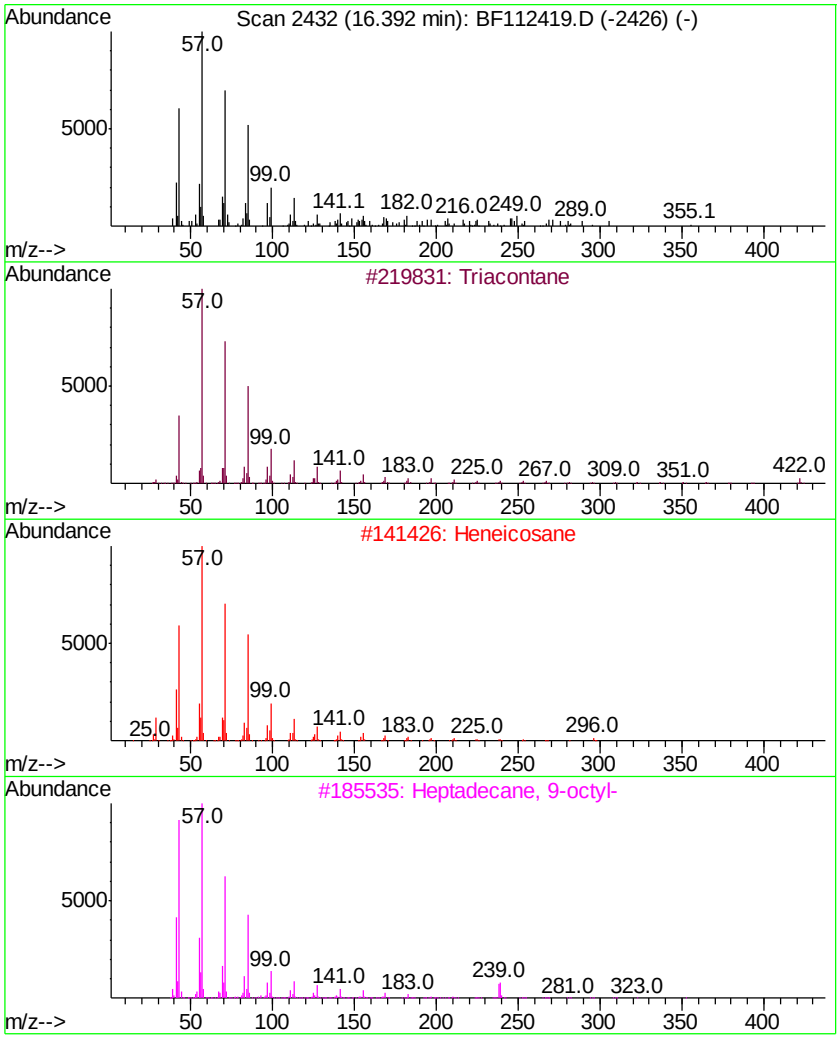
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

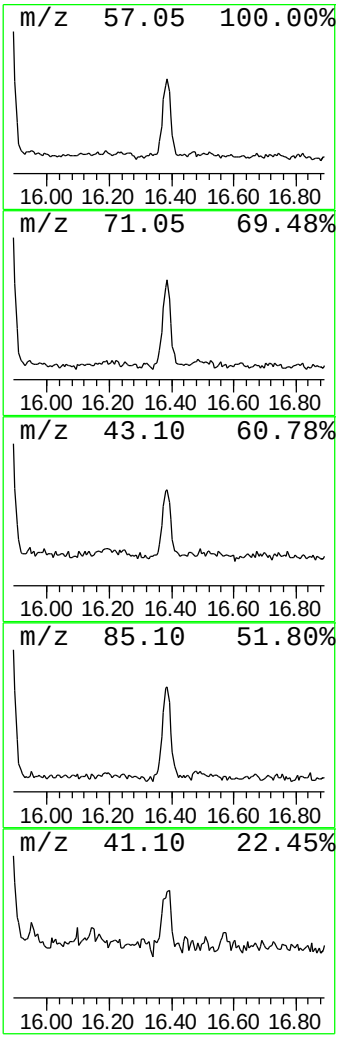
**********

Peak Number 9 Triacontane Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.39 | 3.06 ng | 167261 | Perylene-d12 | 15.47 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Triacontane | 422 | C30H62 | 000638-68-6 | 87 |
| 2 | Heneicosane | 296 | C21H44 | 000629-94-7 | 87 |
| 3 | Heptadecane, 9-octyl- | 352 | C25H52 | 007225-64-1 | 87 |
| 4 | 2-methyloctacosane | 408 | C29H60 | 1000376-72-8 | 87 |
| 5 | Pentacosane | 352 | C25H52 | 000629-99-2 | 87 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF020619\
Data File : BF112419.D
Acq On : 6 Feb 2019 14:52
Operator : JU/SJ
Sample : K1338-03 5X
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** AU-06-020519-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF012519.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 |
| unknown6.60 | 6.60 | 14.5 | ng | 600717 | 1 | 6.83 | 828326 | 20.0 |
| Hexadecanoic acid... | 11.74 | 4.9 | ng | 322834 | 4 | 11.36 | 1328320 | 20.0 |
| 9,12-Octadecadien... | 12.42 | 15.4 | ng | 1020150 | 4 | 11.36 | 1328320 | 20.0 |
| 9-Octadecenoic ac... | 12.45 | 15.0 | ng | 994683 | 4 | 11.36 | 1328320 | 20.0 |
| Methyl stearate | 12.53 | 2.6 | ng | 173710 | 4 | 11.36 | 1328320 | 20.0 |
| Heptadecane | 15.08 | 3.3 | ng | 181780 | 6 | 15.47 | 1092540 | 20.0 |
| Tetracosane | 15.89 | 4.0 | ng | 217379 | 6 | 15.47 | 1092540 | 20.0 |
| Triacontane | 16.39 | 3.1 | ng | 167261 | 6 | 15.47 | 1092540 | 20.0 |