LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF012420\
Data File : BF118702.D
Acq On : 24 Jan 2020 22:59
Operator : CG/JU
Sample : L1242-09
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 20200062-COMPOSITE-B8

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-BF012020.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 | 2.140 | 3 | 9 | 17 | rVB | 1110202 | 1496787 | 27.62% | 3.367% |
| 2 | 5.081 | 501 | 509 | 517 | rVB2 | 42337 | 69222 | 1.28% | 0.156% |
| 3 | 5.487 | 573 | 578 | 581 | rBV | 4965140 | 4692539 | 86.59% | 10.556% |
| 4 | 6.492 | 743 | 749 | 756 | rBV | 4846518 | 4956106 | 91.46% | 11.149% |
| 5 | 6.863 | 809 | 812 | 815 | rBV | 1727214 | 1404920 | 25.93% | 3.160% |
| 6 | 7.022 | 831 | 839 | 842 | rBV | 4856561 | 4132943 | 76.27% | 9.297% |
| 7 | 7.151 | 858 | 861 | 869 | rVB | 61645 | 86129 | 1.59% | 0.194% |
| 8 | 7.257 | 875 | 879 | 884 | rBV | 99310 | 99422 | 1.83% | 0.224% |
| 9 | 7.422 | 902 | 907 | 910 | rBV | 3444437 | 3042213 | 56.14% | 6.843% |
| 10 | 7.634 | 939 | 943 | 948 | rBV | 80599 | 79341 | 1.46% | 0.178% |
| 11 | 8.145 | 1026 | 1030 | 1033 | rBV | 2188582 | 1789432 | 33.02% | 4.025% |
| 12 | 9.222 | 1208 | 1213 | 1216 | rBV | 6103154 | 5418985 | 100.00% | 12.190% |
| 13 | 9.304 | 1224 | 1227 | 1231 | rBV3 | 63390 | 85894 | 1.59% | 0.193% |
| 14 | 9.610 | 1275 | 1279 | 1287 | rBV | 1026782 | 892299 | 16.47% | 2.007% |
| 15 | 9.898 | 1324 | 1328 | 1331 | rBV | 2264036 | 1878732 | 34.67% | 4.226% |
| 16 | 9.928 | 1331 | 1333 | 1337 | rVB | 85176 | 73356 | 1.35% | 0.165% |
| 17 | 10.686 | 1457 | 1462 | 1465 | rBV | 3177797 | 2980123 | 54.99% | 6.704% |
| 18 | 10.816 | 1480 | 1484 | 1491 | rVB3 | 65746 | 97817 | 1.81% | 0.220% |
| 19 | 11.380 | 1576 | 1580 | 1583 | rBV | 1869794 | 1565656 | 28.89% | 3.522% |
| 20 | 11.904 | 1667 | 1669 | 1676 | rBV2 | 279080 | 279410 | 5.16% | 0.629% |
| 21 | 12.592 | 1782 | 1786 | 1789 | rBV | 163396 | 151752 | 2.80% | 0.341% |
| 22 | 12.686 | 1799 | 1802 | 1810 | rBV3 | 66036 | 101928 | 1.88% | 0.229% |
| 23 | 12.821 | 1822 | 1825 | 1827 | rVB | 99075 | 88005 | 1.62% | 0.198% |
| 24 | 12.963 | 1845 | 1849 | 1852 | rBV | 4238023 | 3637286 | 67.12% | 8.182% |
| 25 | 13.539 | 1945 | 1947 | 1954 | rVB2 | 62035 | 74660 | 1.38% | 0.168% |
| 26 | 13.857 | 1998 | 2001 | 2007 | rBV | 380876 | 447574 | 8.26% | 1.007% |
| 27 | 14.016 | 2022 | 2028 | 2031 | rBV | 1603873 | 1625737 | 30.00% | 3.657% |
| 28 | 14.180 | 2053 | 2056 | 2061 | rVB | 134308 | 137047 | 2.53% | 0.308% |
| 29 | 14.486 | 2105 | 2108 | 2112 | rBV | 206826 | 203133 | 3.75% | 0.457% |
| 30 | 14.792 | 2157 | 2160 | 2169 | rVB2 | 192784 | 243247 | 4.49% | 0.547% |
| 31 | 14.868 | 2170 | 2173 | 2176 | rVB | 145082 | 135394 | 2.50% | 0.305% |
| 32 | 15.051 | 2201 | 2204 | 2211 | rVB | 81624 | 180500 | 3.33% | 0.406% |
| 33 | 15.133 | 2214 | 2218 | 2221 | rBV | 189853 | 235049 | 4.34% | 0.529% |
| 34 | 15.480 | 2272 | 2277 | 2280 | rBV | 1342392 | 1659004 | 30.61% | 3.732% |

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF012420\
Data File : BF118702.D
Acq On : 24 Jan 2020 22:59
Operator : CG/JU
Sample : L1242-09
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 20200062-COMPOSITE-B8

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-BF012020.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 15.510 | 2280 | 2282 | 2288 | rVB | 197599 | 239125 | 4.41% | 0.538% |
| 36 | 15.951 | 2353 | 2357 | 2361 | rVB | 122223 | 174167 | 3.21% | 0.392% |

Sum of corrected areas: 44454934

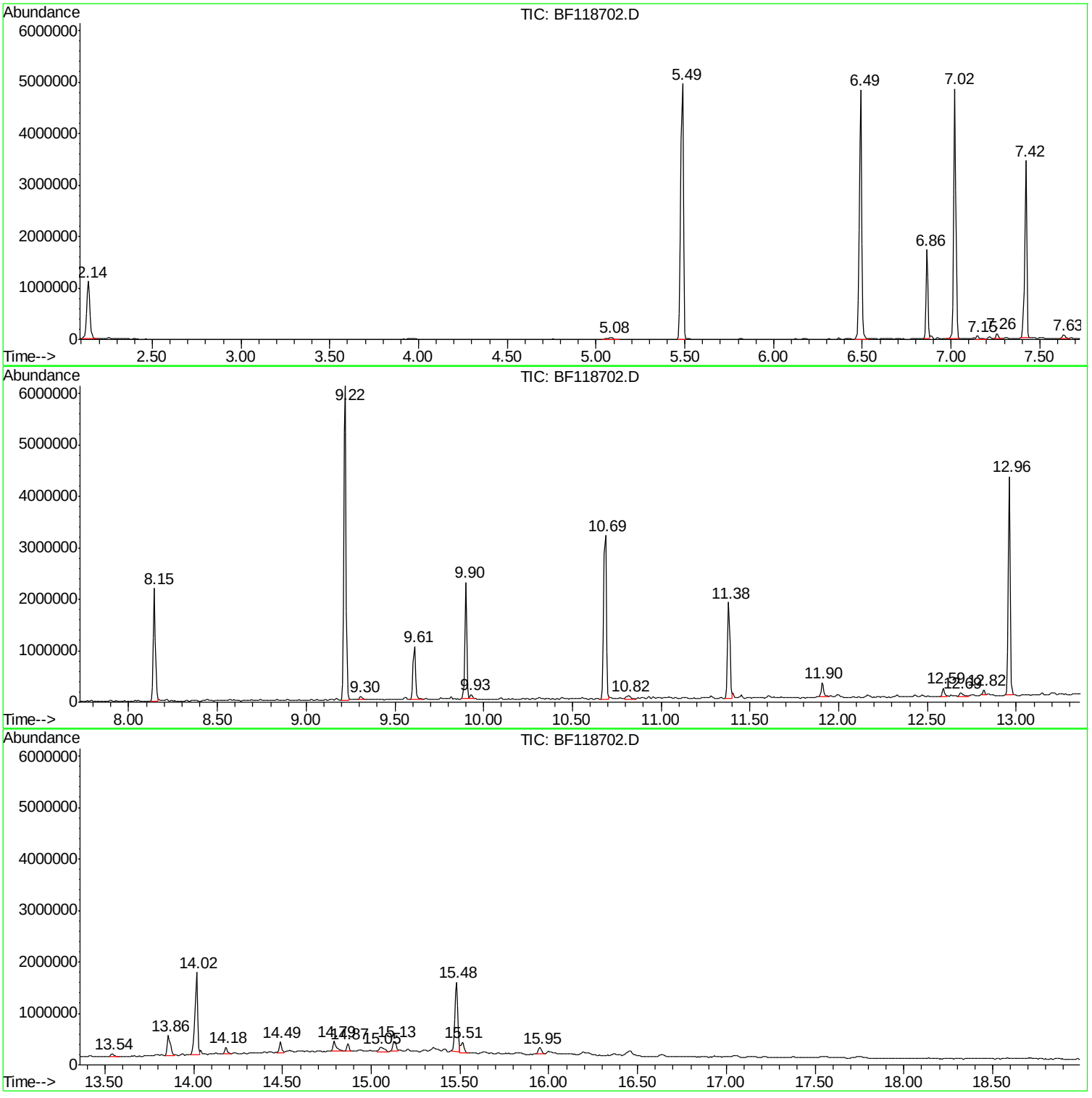
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF012420\
Data File : BF118702.D
Acq On : 24 Jan 2020 22:59
Operator : CG/JU
Sample : L1242-09
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
20200062-COMPOSITE-B8

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF012020.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\BF012420\
Data File : BF118702.D
Acq On : 24 Jan 2020 22:59
Operator : CG/JU
Sample : L1242-09
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 20200062-COMPOSITE-B8

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF012020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

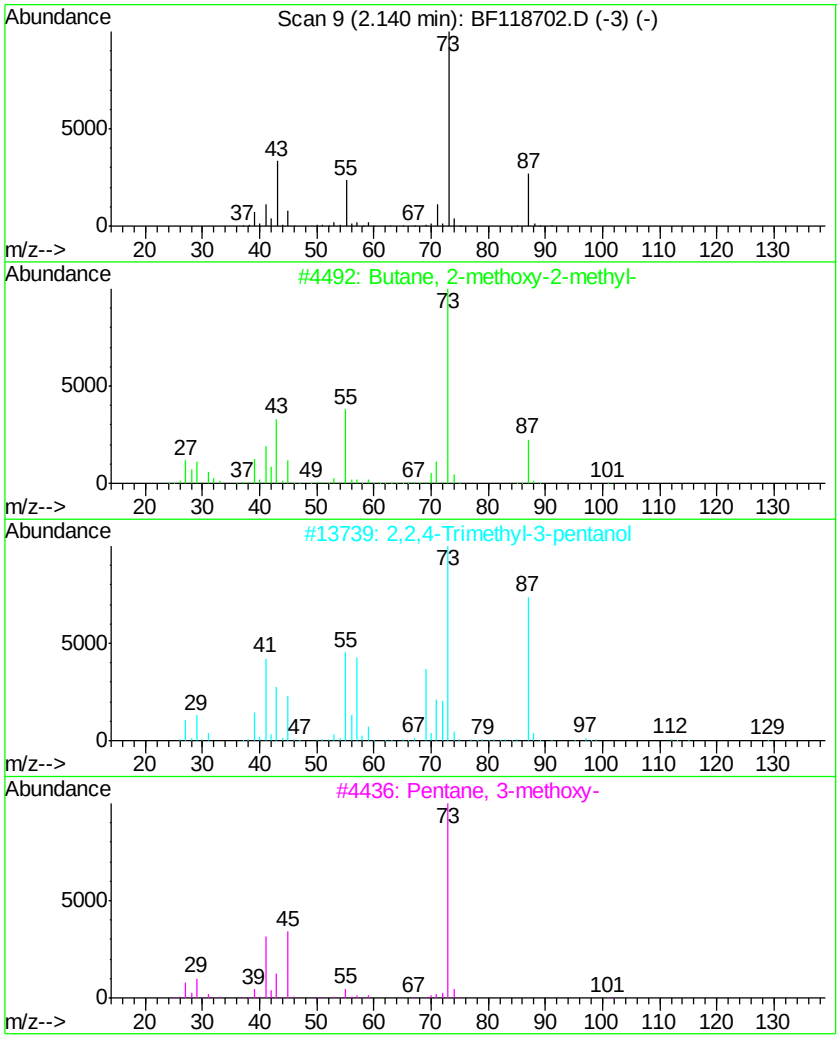
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

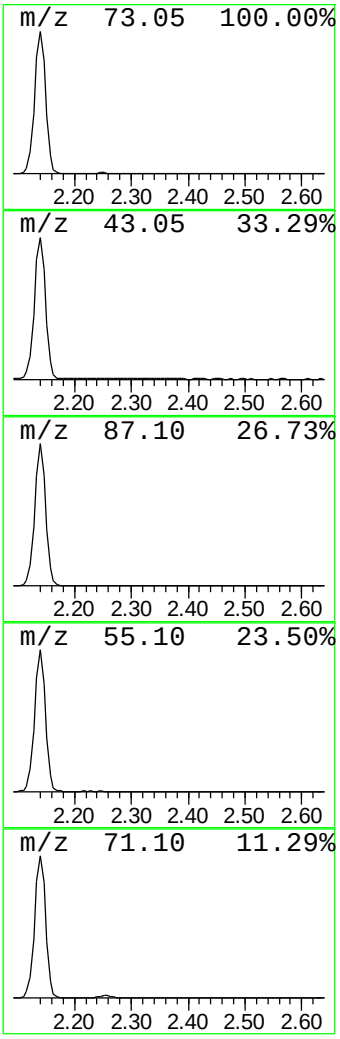
**********

Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 2.14 | 21.31 ng | 1496790 | 1,4-Dichlorobenzene-d4 | 6.86 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butane, 2-methoxy-2-methyl- | 102 | C6H14O | 000994-05-8 | 83 |
| 2 | 2,2,4-Trimethyl-3-pentanol | 130 | C8H18O | 005162-48-1 | 39 |
| 3 | Pentane, 3-methoxy- | 102 | C6H14O | 036839-67-5 | 23 |
| 4 | Borane, dimethoxy- | 74 | C2H7BO2 | 004542-61-4 | 9 |
| 5 | N-Ethylformamide | 73 | C3H7NO | 000627-45-2 | 9 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF012420\
Data File : BF118702.D
Acq On : 24 Jan 2020 22:59
Operator : CG/JU
Sample : L1242-09
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
20200062-COMPOSITE-B8

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF012020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

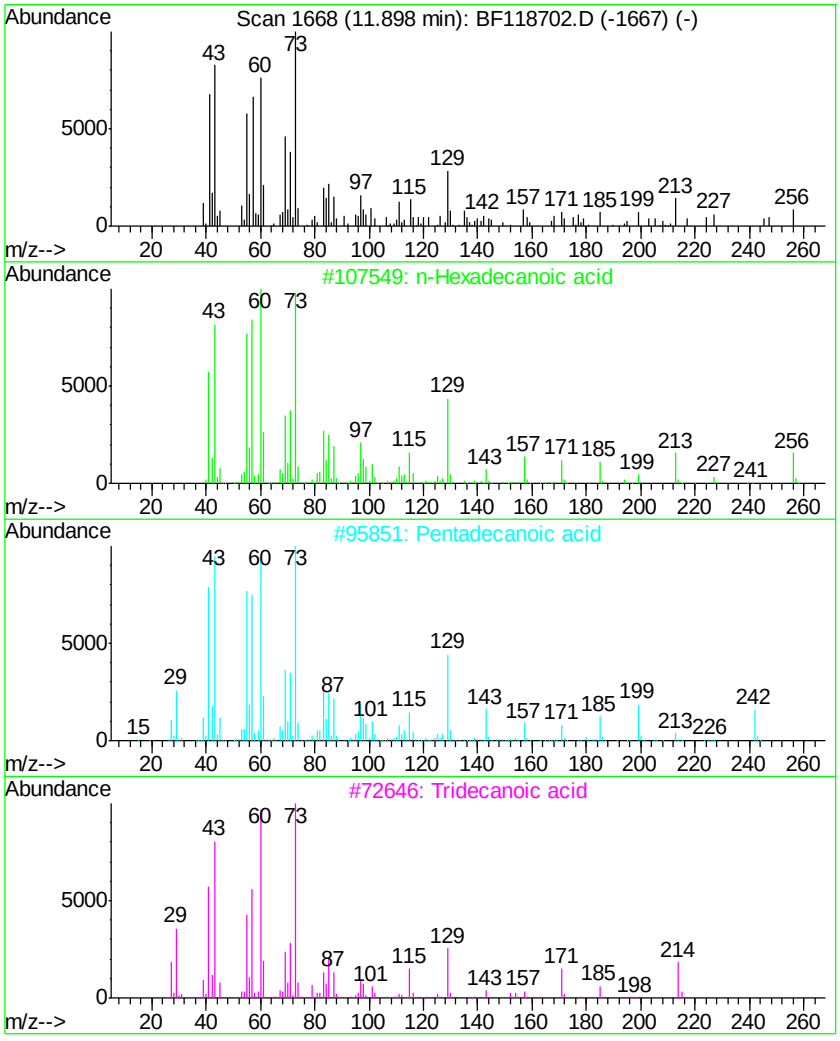
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

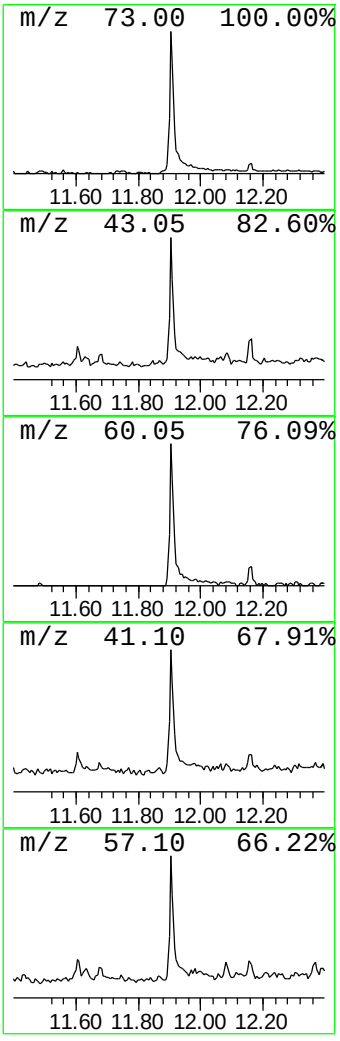
**********

Peak Number 3 n-Hexadecanoic acid Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.90 | 3.57 ng | 279410 | Phenanthrene-d10 | 11.38 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 99 |
| 2 | Pentadecanoic acid | 242 | C15H30O2 | 001002-84-2 | 90 |
| 3 | Tridecanoic acid | 214 | C13H26O2 | 000638-53-9 | 70 |
| 4 | Tetradecanoic acid | 228 | C14H28O2 | 000544-63-8 | 68 |
| 5 | Dodecanoic acid | 200 | C12H24O2 | 000143-07-7 | 58 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF012420\
Data File : BF118702.D
Acq On : 24 Jan 2020 22:59
Operator : CG/JU
Sample : L1242-09
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 20200062-COMPOSITE-B8

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF012020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

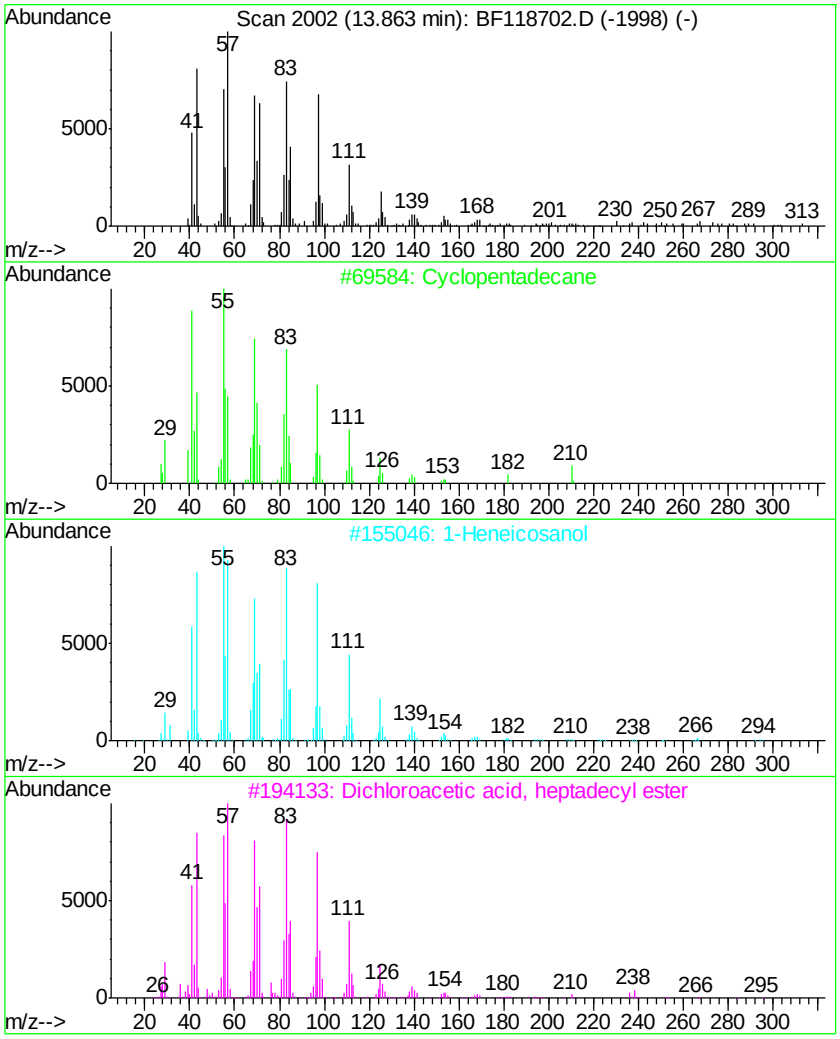
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

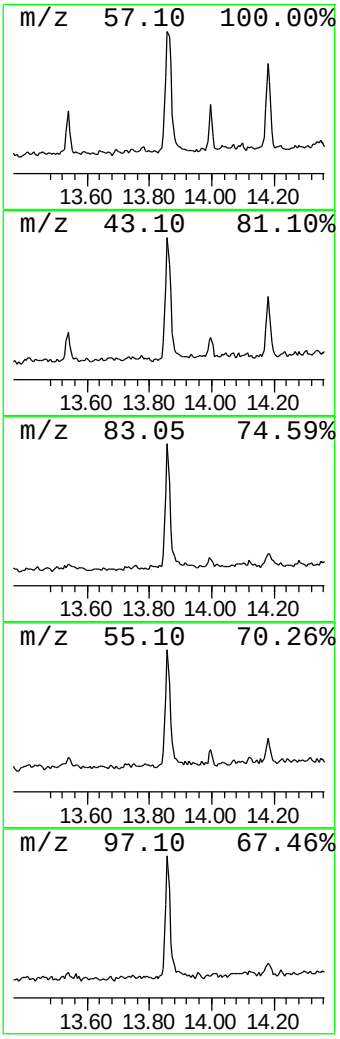
**********

Peak Number 4 Cyclopentadecane Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.86 | 5.51 ng | 447574 | Chrysene-d12 | 14.02 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopentadecane | 210 | C15H30 | 000295-48-7 | 97 |
| 2 | 1-Heneicosanol | 312 | C21H44O | 015594-90-8 | 93 |
| 3 | Dichloroacetic acid, heptadecyl ... | 366 | C19H36Cl2O2 | 1000282-98-2 | 93 |
| 4 | Heptafluorobutyric acid, pentade... | 424 | C19H31F7O2 | 959261-23-5 | 93 |
| 5 | 2- Chloropropionic acid, octadec... | 360 | C21H41ClO2 | 088104-31-8 | 91 |



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF012420\
Data File : BF118702.D
Acq On : 24 Jan 2020 22:59
Operator : CG/JU
Sample : L1242-09
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 20200062-COMPOSITE-B8

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF012020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

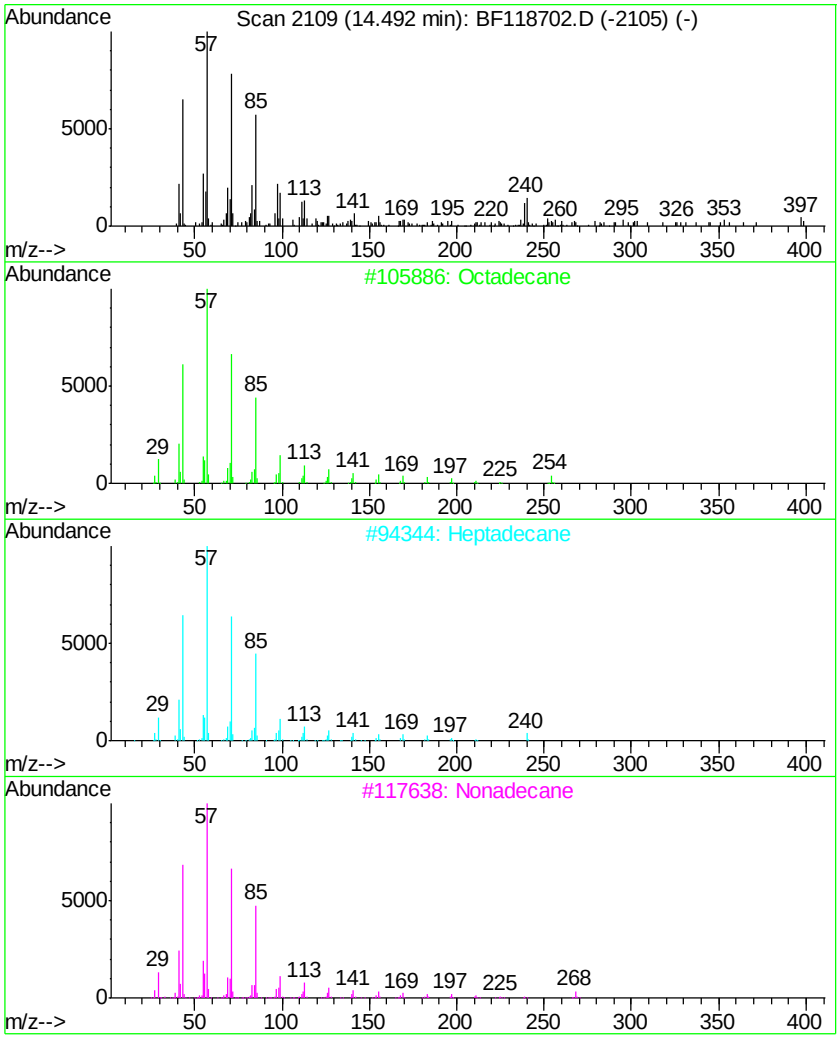
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

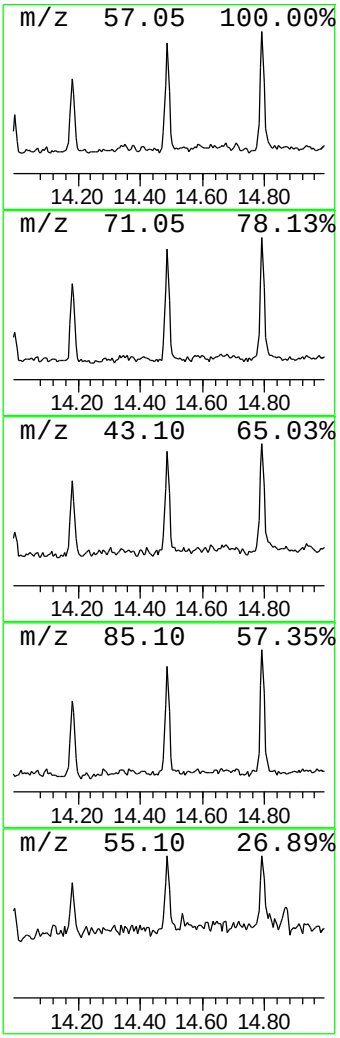
**********

Peak Number 5 Octadecane Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.49 | 2.50 ng | 203133 | Chrysene-d12 | 14.02 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octadecane | 254 | C18H38 | 000593-45-3 | 95 |
| 2 | Heptadecane | 240 | C17H36 | 000629-78-7 | 95 |
| 3 | Nonadecane | 268 | C19H40 | 000629-92-5 | 93 |
| 4 | Tetracosane, 11-decyl- | 479 | C34H70 | 055429-84-0 | 91 |
| 5 | Tetratetracontane | 619 | C44H90 | 007098-22-8 | 91 |



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF012420\
Data File : BF118702.D
Acq On : 24 Jan 2020 22:59
Operator : CG/JU
Sample : L1242-09
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 20200062-COMPOSITE-B8

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF012020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

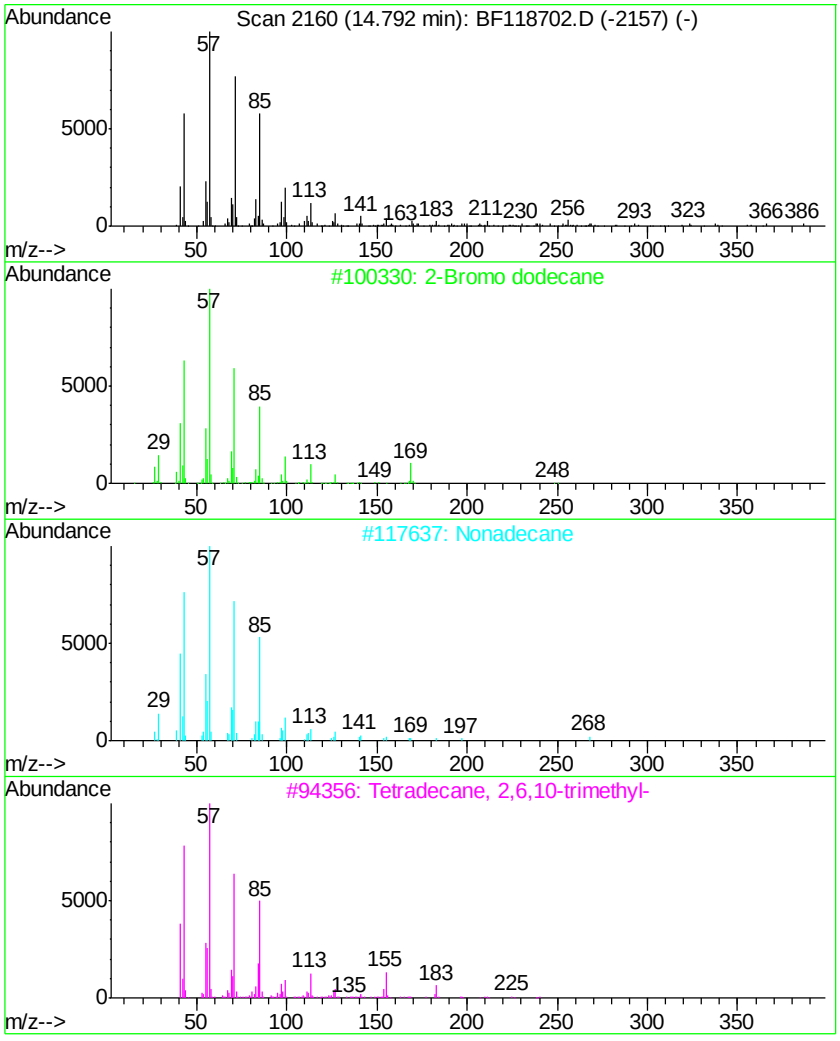
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

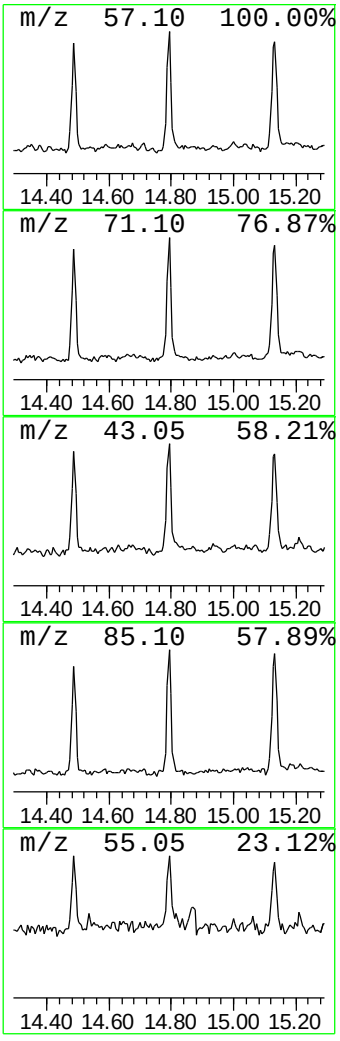
**********

Peak Number 6 2-Bromo dodecane Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.79 | 2.93 ng | 243247 | Perylene-d12 | 15.48 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Bromo dodecane | 248 | C12H25Br | 013187-99-0 | 93 |
| 2 | Nonadecane | 268 | C19H40 | 000629-92-5 | 91 |
| 3 | Tetradecane, 2,6,10-trimethyl- | 240 | C17H36 | 014905-56-7 | 91 |
| 4 | Heneicosane | 296 | C21H44 | 000629-94-7 | 91 |
| 5 | 2-methyloctacosane | 408 | C29H60 | 1000376-72-8 | 91 |



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF012420\
Data File : BF118702.D
Acq On : 24 Jan 2020 22:59
Operator : CG/JU
Sample : L1242-09
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 20200062-COMPOSITE-B8

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF012020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

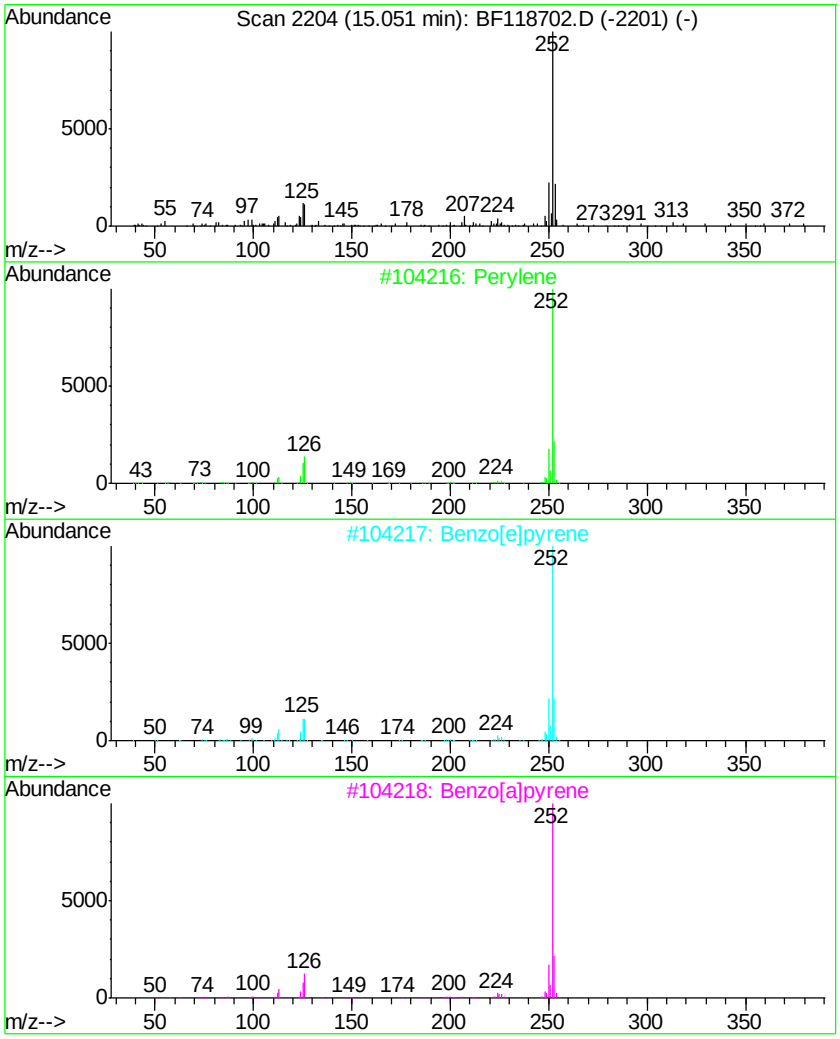
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

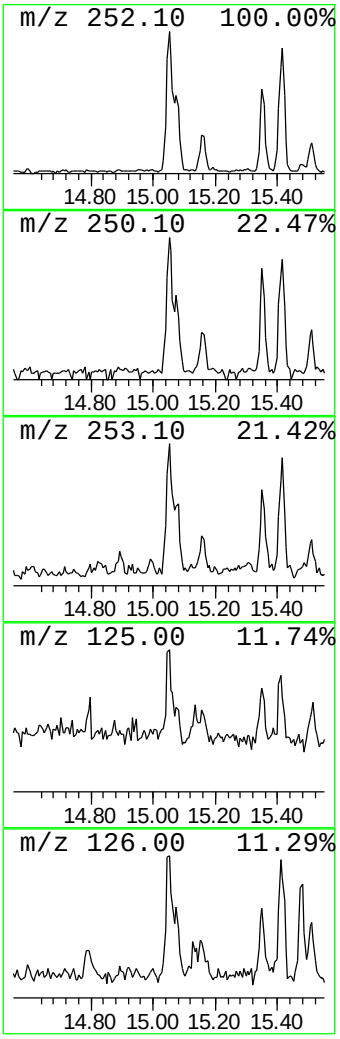
**********

Peak Number 7 Perylene Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.05 | 2.18 ng | 180500 | Perylene-d12 | 15.48 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Perylene | 252 | C20H12 | 000198-55-0 | 95 |
| 2 | Benzo[e]pyrene | 252 | C20H12 | 000192-97-2 | 93 |
| 3 | Benzo[a]pyrene | 252 | C20H12 | 000050-32-8 | 93 |
| 4 | Benz[e]acephenanthrylene | 252 | C20H12 | 000205-99-2 | 91 |
| 5 | Benzo[j]fluoranthene | 252 | C20H12 | 000205-82-3 | 81 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF012420\
Data File : BF118702.D
Acq On : 24 Jan 2020 22:59
Operator : CG/JU
Sample : L1242-09
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
20200062-COMPOSITE-B8

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF012020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

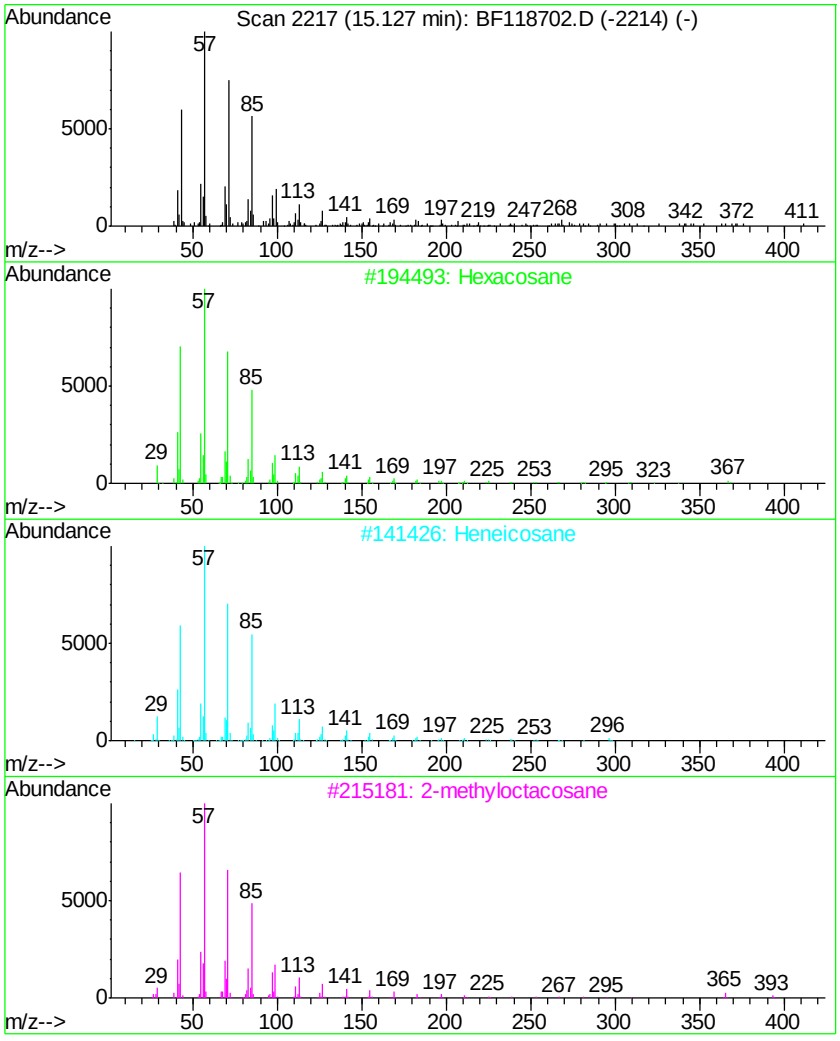
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

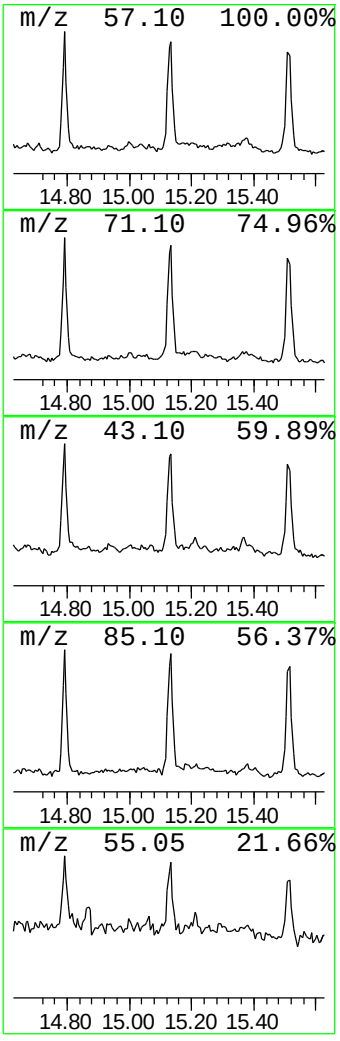
**********

Peak Number 8 Hexacosane Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.13 | 2.83 ng | 235049 | Perylene-d12 | 15.48 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexacosane | 366 | C26H54 | 000630-01-3 | 91 |
| 2 | Heneicosane | 296 | C21H44 | 000629-94-7 | 91 |
| 3 | 2-methyloctacosane | 408 | C29H60 | 1000376-72-8 | 91 |
| 4 | Heptadecane, 9-octyl- | 352 | C25H52 | 007225-64-1 | 91 |
| 5 | Triacontane | 422 | C30H62 | 000638-68-6 | 91 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF012420\
Data File : BF118702.D
Acq On : 24 Jan 2020 22:59
Operator : CG/JU
Sample : L1242-09
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 20200062-COMPOSITE-B8

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF012020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

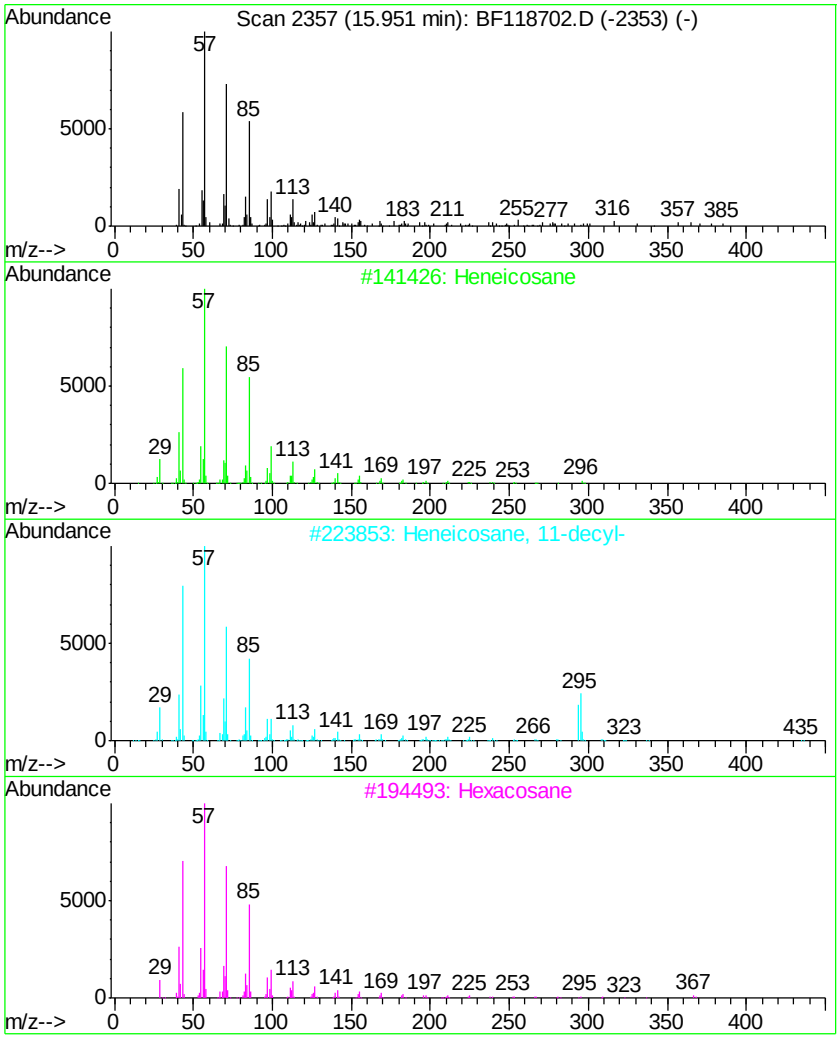
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

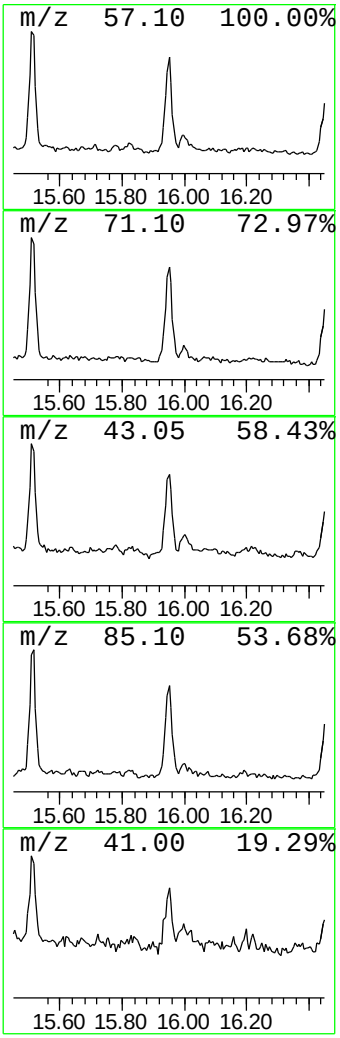
**********

Peak Number 9 Heneicosane Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.95 | 2.10 ng | 174167 | Perylene-d12 | 15.48 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heneicosane | 296 | C21H44 | 000629-94-7 | 90 |
| 2 | Heneicosane, 11-decyl- | 437 | C31H64 | 055320-06-4 | 90 |
| 3 | Hexacosane | 366 | C26H54 | 000630-01-3 | 90 |
| 4 | Dodecane, 2-methyl- | 184 | C13H28 | 001560-97-0 | 90 |
| 5 | Tetratetracontane | 619 | C44H90 | 007098-22-8 | 90 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF012420\
Data File : BF118702.D
Acq On : 24 Jan 2020 22:59
Operator : CG/JU
Sample : L1242-09
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 20200062-COMPOSITE-B8

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF012020.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 |
| Butane, 2-methoxy... | 2.14 | 21.3 | ng | 1496790 | 1 | 6.86 | 1404920 | 20.0 |
| n-Hexadecanoic acid | 11.90 | 3.6 | ng | 279410 | 4 | 11.38 | 1565660 | 20.0 |
| Cyclopentadecane | 13.86 | 5.5 | ng | 447574 | 5 | 14.02 | 1625740 | 20.0 |
| Octadecane | 14.49 | 2.5 | ng | 203133 | 5 | 14.02 | 1625740 | 20.0 |
| 2-Bromo dodecane | 14.79 | 2.9 | ng | 243247 | 6 | 15.48 | 1659000 | 20.0 |
| Perylene | 15.05 | 2.2 | ng | 180500 | 6 | 15.48 | 1659000 | 20.0 |
| Hexacosane | 15.13 | 2.8 | ng | 235049 | 6 | 15.48 | 1659000 | 20.0 |
| Heneicosane | 15.95 | 2.1 | ng | 174167 | 6 | 15.48 | 1659000 | 20.0 |