LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF123119\
Data File : BF118412.D
Acq On : 31 Dec 2019 18:27
Operator : JU
Sample : K6465-05
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** GP-9-(1-3)

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-BF122419.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 | 5.063 | 502 | 506 | 521 | rVB | 209120 | 265779 | 13.67% | 1.424% |
| 2 | 5.475 | 572 | 576 | 600 | rBV | 1572243 | 1539572 | 79.20% | 8.250% |
| 3 | 6.492 | 745 | 749 | 768 | rBV | 1647826 | 1650040 | 84.89% | 8.842% |
| 4 | 6.628 | 768 | 772 | 775 | rBV | 2026798 | 1795537 | 92.37% | 9.621% |
| 5 | 6.851 | 807 | 810 | 816 | rBV | 591197 | 473734 | 24.37% | 2.539% |
| 6 | 7.010 | 833 | 837 | 840 | rBV | 1643115 | 1350008 | 69.45% | 7.234% |
| 7 | 7.416 | 902 | 906 | 919 | rBV | 940695 | 1010187 | 51.97% | 5.413% |
| 8 | 8.139 | 1025 | 1029 | 1047 | rBV | 636407 | 620704 | 31.93% | 3.326% |
| 9 | 9.216 | 1208 | 1212 | 1228 | rBV | 2083836 | 1943813 | 100.00% | 10.416% |
| 10 | 9.616 | 1276 | 1280 | 1290 | rBV | 146523 | 151440 | 7.79% | 0.811% |
| 11 | 9.898 | 1325 | 1328 | 1343 | rBV | 669397 | 719304 | 37.00% | 3.854% |
| 12 | 10.698 | 1460 | 1464 | 1479 | rBV | 1296284 | 1297316 | 66.74% | 6.952% |
| 13 | 11.398 | 1579 | 1583 | 1585 | rBV | 637712 | 616960 | 31.74% | 3.306% |
| 14 | 11.422 | 1585 | 1587 | 1592 | rVV | 147104 | 136374 | 7.02% | 0.731% |
| 15 | 11.474 | 1592 | 1596 | 1602 | rVB | 28577 | 34718 | 1.79% | 0.186% |
| 16 | 11.621 | 1617 | 1621 | 1623 | rBV3 | 15040 | 22227 | 1.14% | 0.119% |
| 17 | 11.916 | 1667 | 1671 | 1680 | rBV3 | 165677 | 189343 | 9.74% | 1.015% |
| 18 | 12.016 | 1685 | 1688 | 1690 | rBV | 23533 | 22790 | 1.17% | 0.122% |
| 19 | 12.616 | 1787 | 1790 | 1800 | rBV | 243296 | 240038 | 12.35% | 1.286% |
| 20 | 12.704 | 1802 | 1805 | 1812 | rVB4 | 34501 | 46804 | 2.41% | 0.251% |
| 21 | 12.845 | 1823 | 1829 | 1835 | rVB | 207377 | 209045 | 10.75% | 1.120% |
| 22 | 12.921 | 1839 | 1842 | 1845 | rVB | 47092 | 45393 | 2.34% | 0.243% |
| 23 | 12.986 | 1848 | 1853 | 1856 | rBV | 1749969 | 1554080 | 79.95% | 8.328% |
| 24 | 13.204 | 1888 | 1890 | 1895 | rVB | 49526 | 44305 | 2.28% | 0.237% |
| 25 | 13.286 | 1901 | 1904 | 1908 | rVB3 | 21437 | 25732 | 1.32% | 0.138% |
| 26 | 13.551 | 1945 | 1949 | 1953 | rBV2 | 46265 | 53728 | 2.76% | 0.288% |
| 27 | 13.880 | 1998 | 2005 | 2009 | rBV3 | 215778 | 301806 | 15.53% | 1.617% |
| 28 | 14.015 | 2025 | 2028 | 2030 | rBV | 44839 | 42700 | 2.20% | 0.229% |
| 29 | 14.051 | 2030 | 2034 | 2037 | rVV2 | 632289 | 678355 | 34.90% | 3.635% |
| 30 | 14.080 | 2037 | 2039 | 2048 | rVB | 97819 | 113627 | 5.85% | 0.609% |
| 31 | 14.198 | 2056 | 2059 | 2063 | rBV3 | 29742 | 42002 | 2.16% | 0.225% |
| 32 | 14.504 | 2108 | 2111 | 2117 | rBV3 | 56269 | 95301 | 4.90% | 0.511% |
| 33 | 14.810 | 2161 | 2163 | 2173 | rVB | 71141 | 89676 | 4.61% | 0.481% |
| 34 | 14.957 | 2185 | 2188 | 2194 | rVB6 | 26843 | 41821 | 2.15% | 0.224% |

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF123119\
Data File : BF118412.D
Acq On : 31 Dec 2019 18:27
Operator : JU
Sample : K6465-05
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** GP-9-(1-3)

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-BF122419.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 15.110 | 2210 | 2214 | 2217 | rBV | 88244 | 135009 | 6.95% | 0.723% |
| 36 | 15.157 | 2219 | 2222 | 2225 | rVB | 71816 | 89039 | 4.58% | 0.477% |
| 37 | 15.486 | 2275 | 2278 | 2282 | rVB | 88337 | 102317 | 5.26% | 0.548% |
| 38 | 15.551 | 2283 | 2289 | 2302 | rBV | 421371 | 652534 | 33.57% | 3.497% |
| 39 | 15.986 | 2359 | 2363 | 2367 | rVB | 58515 | 93275 | 4.80% | 0.500% |
| 40 | 16.051 | 2372 | 2374 | 2382 | rVB8 | 41741 | 70193 | 3.61% | 0.376% |
| 41 | 16.498 | 2447 | 2450 | 2453 | rVB2 | 24338 | 25303 | 1.30% | 0.136% |
| 42 | 18.415 | 2770 | 2776 | 2777 | rBV6 | 17262 | 29849 | 1.54% | 0.160% |

Sum of corrected areas: 18661778

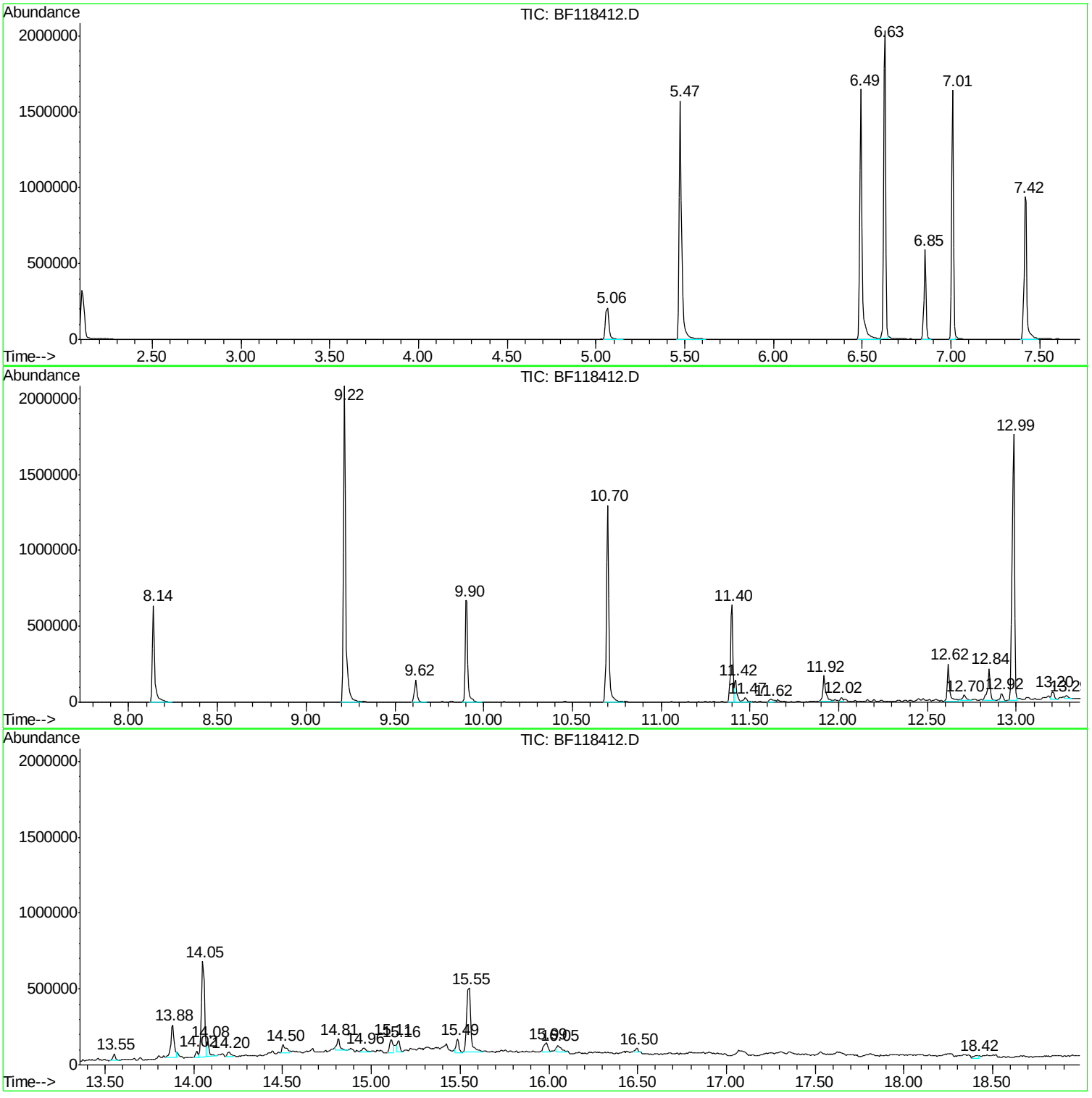
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF123119\
Data File : BF118412.D
Acq On : 31 Dec 2019 18:27
Operator : JU
Sample : K6465-05
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
GP-9-(1-3)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF122419.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\BF123119\
Data File : BF118412.D
Acq On : 31 Dec 2019 18:27
Operator : JU
Sample : K6465-05
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** GP-9-(1-3)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF122419.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

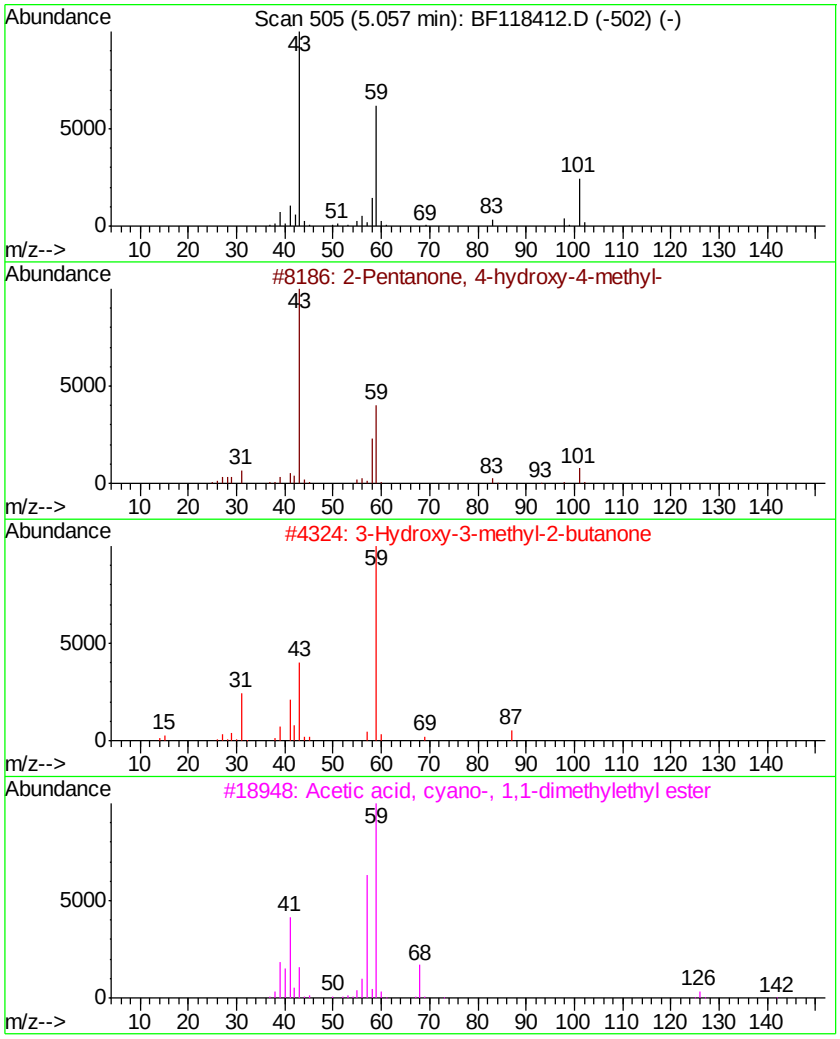
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

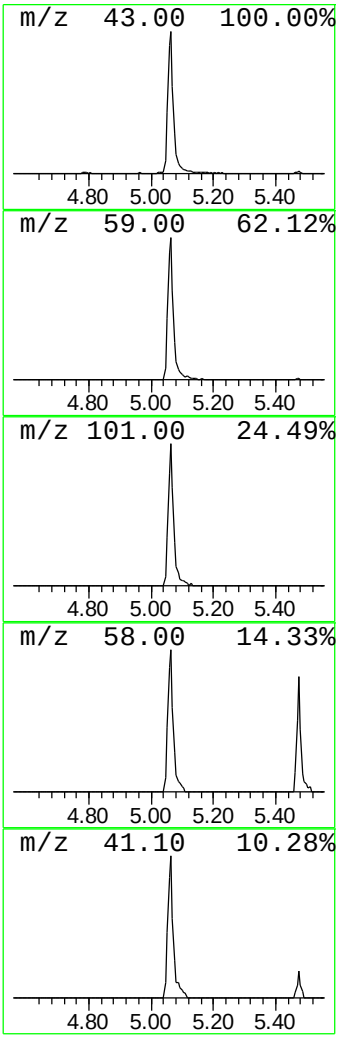
**********

Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.06 | 11.22 ng | 265779 | 1,4-Dichlorobenzene-d4 | 6.85 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 72 |
| 2 | 3-Hydroxy-3-methyl-2-butanone | 102 | C5H10O2 | 000115-22-0 | 25 |
| 3 | Acetic acid, cyano-, 1,1-dimethy... | 141 | C7H11NO2 | 001116-98-9 | 17 |
| 4 | 2,3-Butanedione, monooxime | 101 | C4H7NO2 | 000057-71-6 | 17 |
| 5 | Butane, 1-ethoxy- | 102 | C6H14O | 000628-81-9 | 9 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF123119\
Data File : BF118412.D
Acq On : 31 Dec 2019 18:27
Operator : JU
Sample : K6465-05
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** GP-9-(1-3)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF122419.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

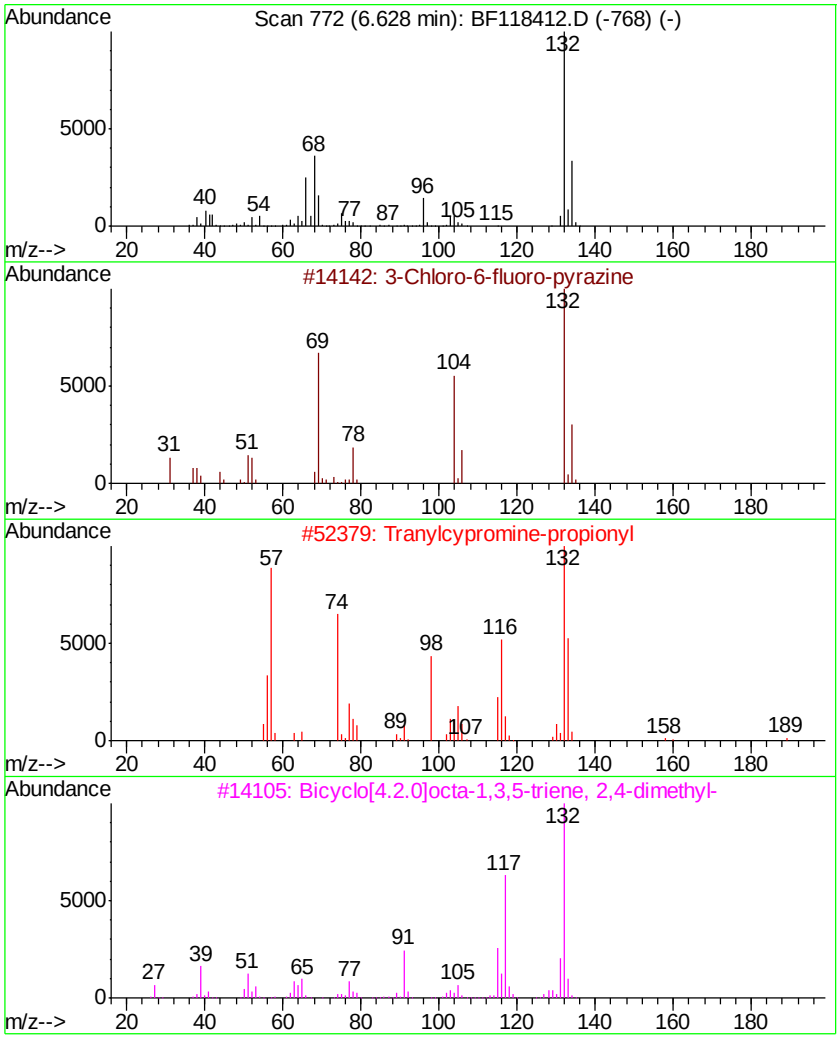
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

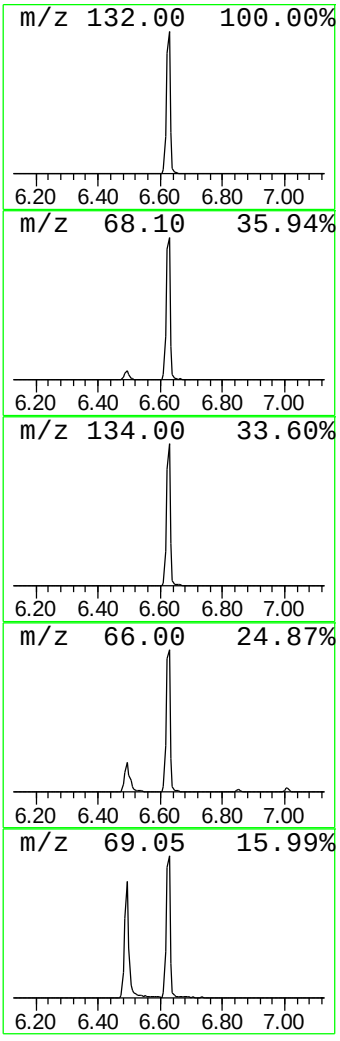
**********

Peak Number 2 unknown6.63 Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.63 | 75.80 ng | 1795540 | 1,4-Dichlorobenzene-d4 | 6.85 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Chloro-6-fluoro-pyrazine | 132 | C4H2ClFN2 | 1000146-10-7 | 35 |
| 2 | Tranylcypromine-propionyl | 189 | C12H15NO | 1000123-86-3 | 16 |
| 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 | 2H-Cyclopenta[d]pyridazine, 2-me... | 132 | C8H8N2 | 022291-85-6 | 9 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF123119\
Data File : BF118412.D
Acq On : 31 Dec 2019 18:27
Operator : JU
Sample : K6465-05
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** GP-9-(1-3)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF122419.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

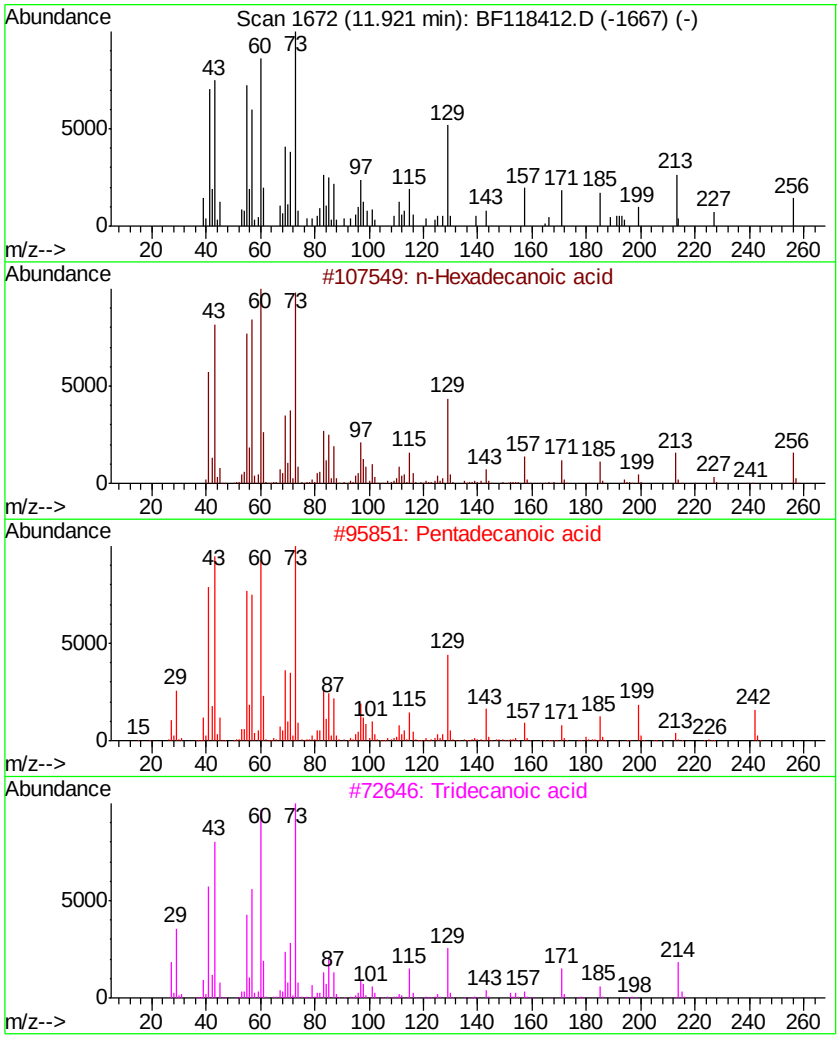
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

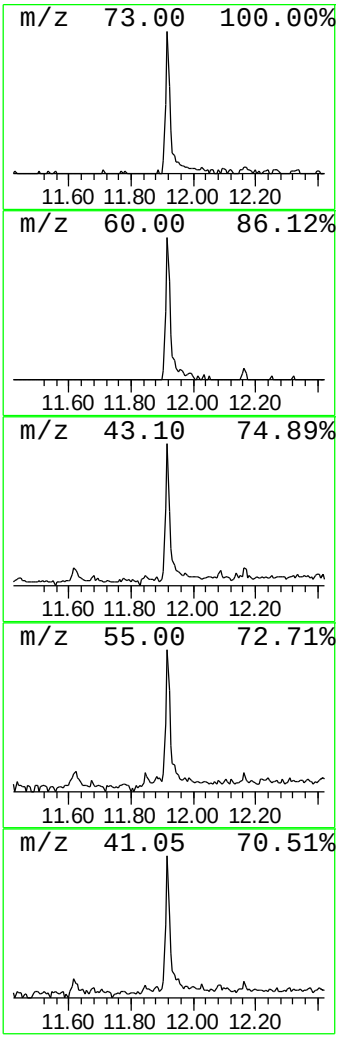
**********

Peak Number 4 n-Hexadecanoic acid Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.92 | 6.14 ng | 189343 | Phenanthrene-d10 | 11.40 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 97 |
| 2 | Pentadecanoic acid | 242 | C15H30O2 | 001002-84-2 | 90 |
| 3 | Tridecanoic acid | 214 | C13H26O2 | 000638-53-9 | 76 |
| 4 | Oxalic acid, dodecyl isobutyl ester | 314 | C18H34O4 | 1000309-37-7 | 18 |
| 5 | 1-Decanol, 2-octyl- | 270 | C18H38O | 045235-48-1 | 15 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF123119\
Data File : BF118412.D
Acq On : 31 Dec 2019 18:27
Operator : JU
Sample : K6465-05
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** GP-9-(1-3)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF122419.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

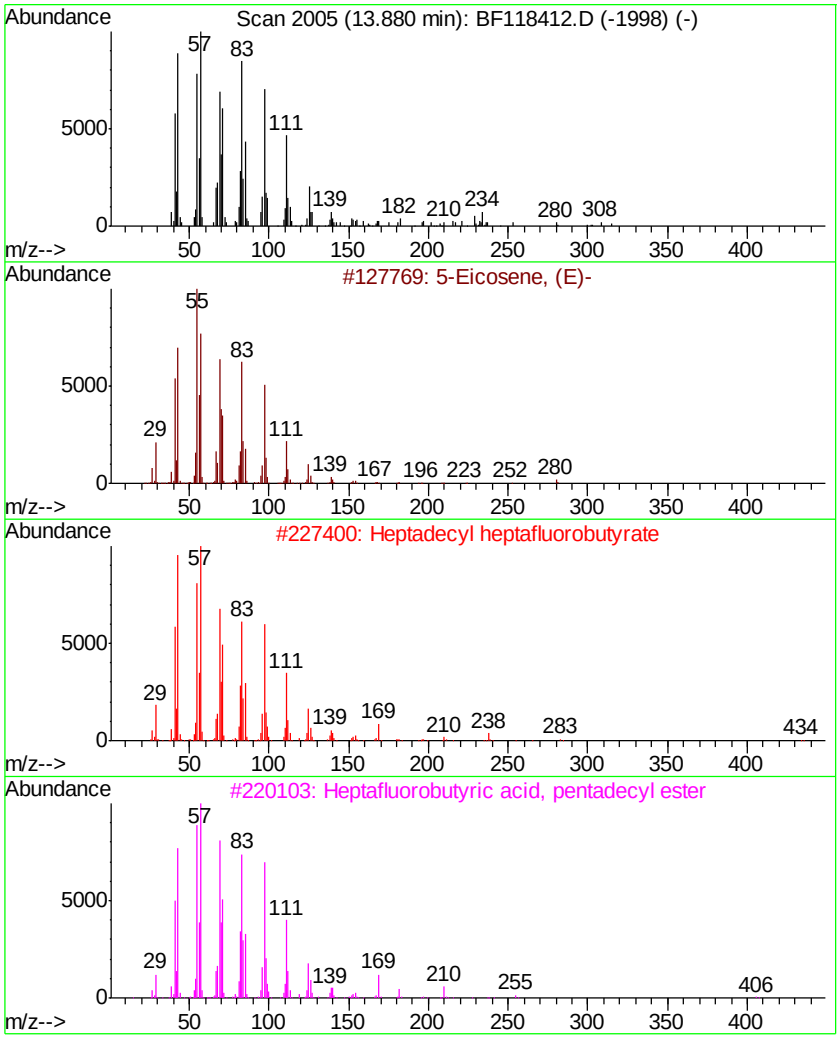
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

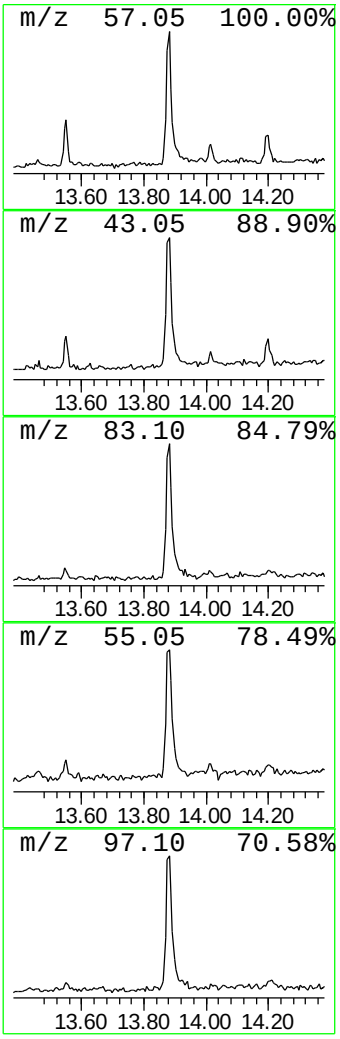
**********

Peak Number 5 5-Eicosene, (E)- Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.88 | 8.90 ng | 301806 | Chrysene-d12 | 14.05 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 5-Eicosene, (E)- | 280 | C20H40 | 074685-30-6 | 96 |
| 2 | Heptadecyl heptafluorobutyrate | 452 | C21H35F7O2 | 959085-66-6 | 94 |
| 3 | Heptafluorobutyric acid, pentade... | 424 | C19H31F7O2 | 959261-23-5 | 91 |
| 4 | Ethanol, 2-(tetradecyloxy)- | 258 | C16H34O2 | 002136-70-1 | 91 |
| 5 | Nonadecyl pentafluoropropionate | 430 | C22H39F5O2 | 1000351-88-8 | 91 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF123119\
Data File : BF118412.D
Acq On : 31 Dec 2019 18:27
Operator : JU
Sample : K6465-05
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** GP-9-(1-3)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF122419.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

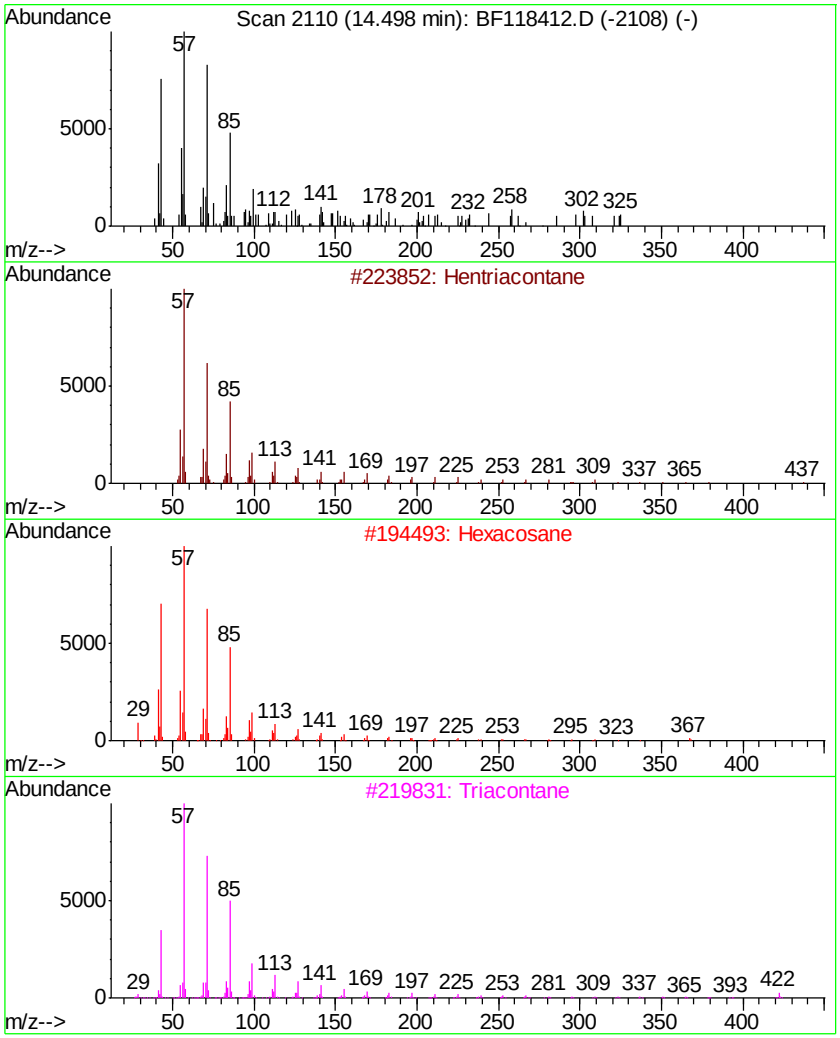
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

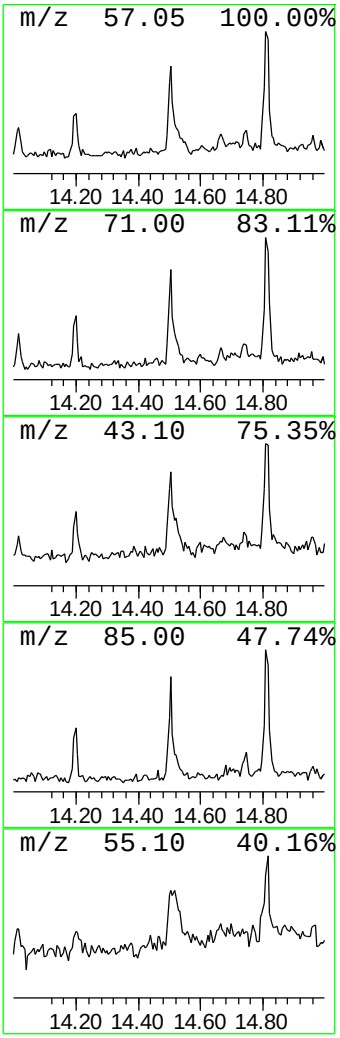
**********

Peak Number 6 Hentriacontane Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.50 | 2.81 ng | 95301 | Chrysene-d12 | 14.05 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hentriacontane | 437 | C31H64 | 000630-04-6 | 68 |
| 2 | Hexacosane | 366 | C26H54 | 000630-01-3 | 68 |
| 3 | Triacontane | 422 | C30H62 | 000638-68-6 | 64 |
| 4 | Hexadecane | 226 | C16H34 | 000544-76-3 | 64 |
| 5 | Tetracosane | 338 | C24H50 | 000646-31-1 | 64 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF123119\
Data File : BF118412.D
Acq On : 31 Dec 2019 18:27
Operator : JU
Sample : K6465-05
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** GP-9-(1-3)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF122419.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

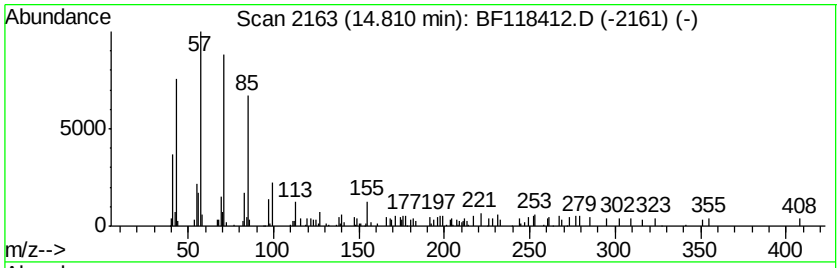
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

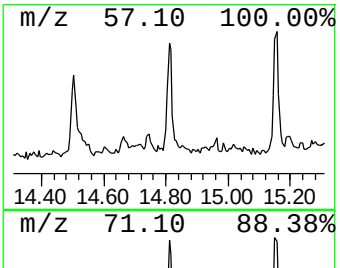
**********

Peak Number 7 Nonacosane Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.81 | 2.75 ng | 89676 | Perylene-d12 | 15.55 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Nonacosane | 408 | C29H60 | 000630-03-5 | 93 |
| 2 | 2-methyloctacosane | 408 | C29H60 | 1000376-72-8 | 72 |
| 3 | Hexadecane | 226 | C16H34 | 000544-76-3 | 64 |
| 4 | Hexacosane | 366 | C26H54 | 000630-01-3 | 64 |
| 5 | Dodecane, 1-iodo- | 296 | C12H25I | 004292-19-7 | 64 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF123119\
Data File : BF118412.D
Acq On : 31 Dec 2019 18:27
Operator : JU
Sample : K6465-05
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** GP-9-(1-3)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF122419.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

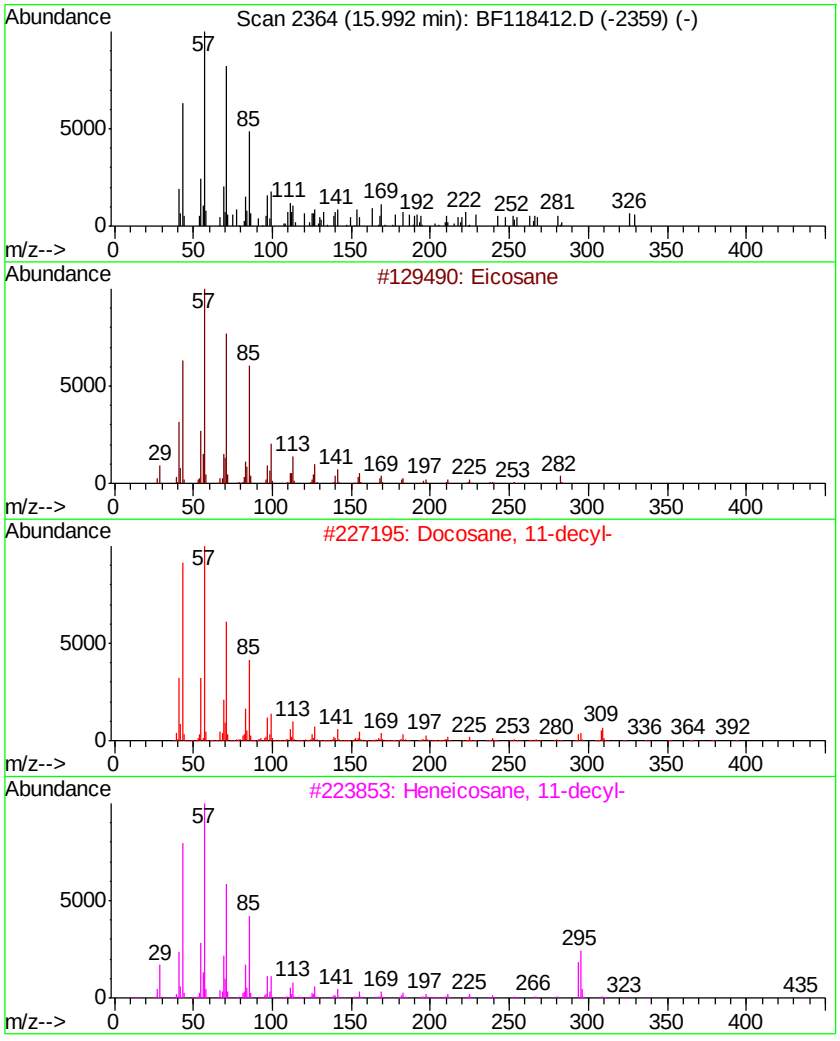
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

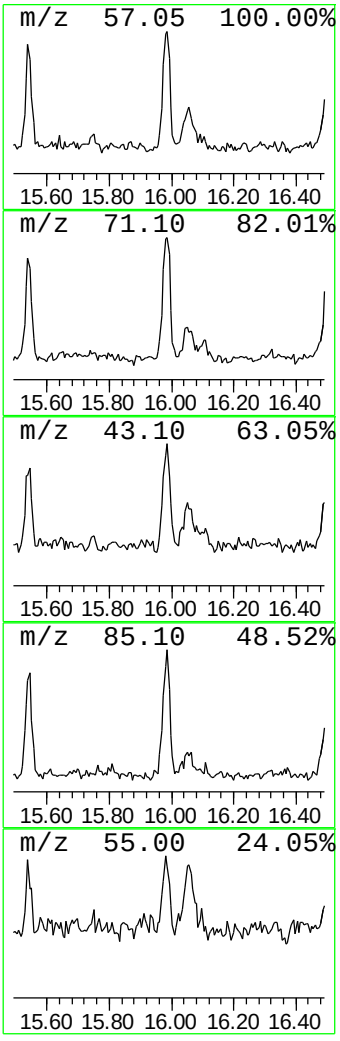
**********

Peak Number 8 Eicosane Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.99 | 2.86 ng | 93275 | Perylene-d12 | 15.55 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Eicosane | 282 | C20H42 | 000112-95-8 | 83 |
| 2 | Docosane, 11-decyl- | 451 | C32H66 | 055401-55-3 | 62 |
| 3 | Heneicosane, 11-decyl- | 437 | C31H64 | 055320-06-4 | 62 |
| 4 | Eicosane, 10-hexyl-10-methyl- | 380 | C27H56 | 055282-32-1 | 58 |
| 5 | Hexadecane | 226 | C16H34 | 000544-76-3 | 58 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF123119\
Data File : BF118412.D
Acq On : 31 Dec 2019 18:27
Operator : JU
Sample : K6465-05
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** GP-9-(1-3)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF122419.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

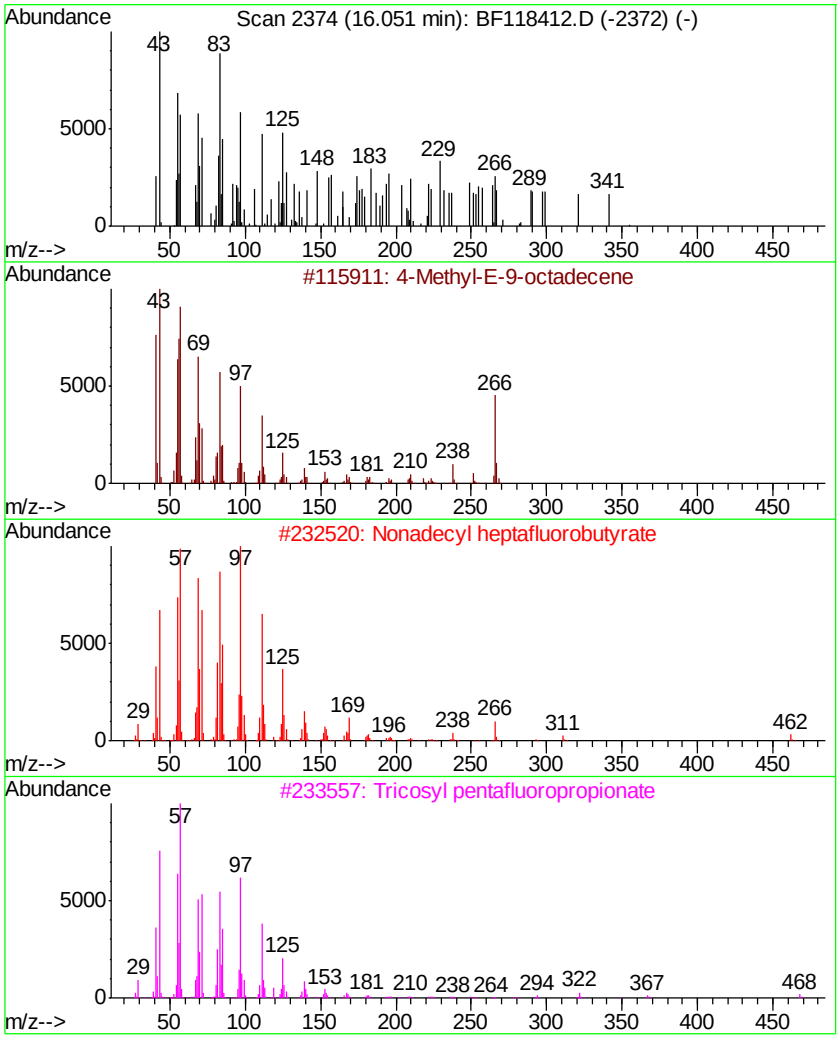
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

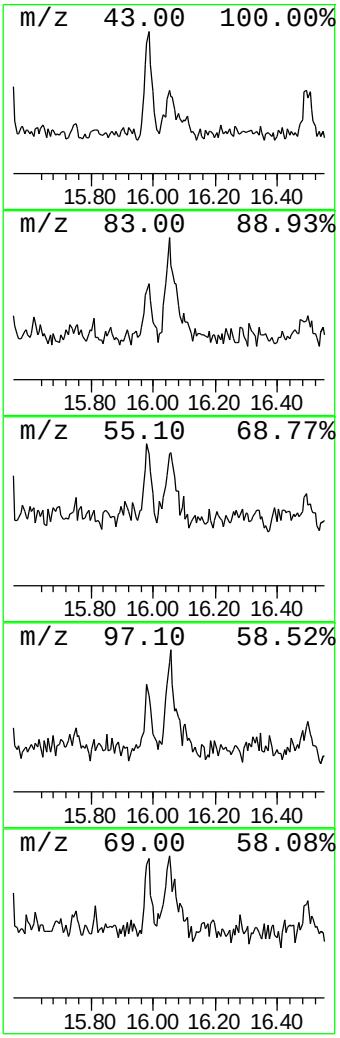
**********

Peak Number 9 unknown16.05 Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.05 | 2.15 ng | 70193 | Perylene-d12 | 15.55 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4-Methyl-E-9-octadecene | 266 | C19H38 | 1000130-87-1 | 41 |
| 2 | Nonadecyl heptafluorobutyrate | 480 | C23H39F7O2 | 1000351-83-9 | 30 |
| 3 | Tricosyl pentafluoropropionate | 486 | C26H47F5O2 | 1000351-81-0 | 27 |
| 4 | Tetracosyl pentafluoropropionate | 500 | C27H49F5O2 | 1000351-81-3 | 27 |
| 5 | Eicosyl pentafluoropropionate | 444 | C23H41F5O2 | 1000351-80-8 | 27 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF123119\
Data File : BF118412.D
Acq On : 31 Dec 2019 18:27
Operator : JU
Sample : K6465-05
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** GP-9-(1-3)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF122419.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 |
| 2-Pentanone, 4-hy... | 5.06 | 11.2 | ng | 265779 | 1 | 6.85 | 473734 | 20.0 |
| unknown6.63 | 6.63 | 75.8 | ng | 1795540 | 1 | 6.85 | 473734 | 20.0 |
| n-Hexadecanoic acid | 11.92 | 6.1 | ng | 189343 | 4 | 11.40 | 616960 | 20.0 |
| 5-Eicosene, (E)- | 13.88 | 8.9 | ng | 301806 | 5 | 14.05 | 678355 | 20.0 |
| Hentriacontane | 14.50 | 2.8 | ng | 95301 | 5 | 14.05 | 678355 | 20.0 |
| Nonacosane | 14.81 | 2.8 | ng | 89676 | 6 | 15.55 | 652534 | 20.0 |
| Eicosane | 15.99 | 2.9 | ng | 93275 | 6 | 15.55 | 652534 | 20.0 |
| unknown16.05 | 16.05 | 2.1 | ng | 70193 | 6 | 15.55 | 652534 | 20.0 |