LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF021416\
Data File : BF085072.D
Acq On : 13 Feb 2016 7:55
Operator : SJ/IZ
Sample : H1409-03
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SUP-B004(42-44)

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF021316.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 | 1.667 | 6 | 7 | 10 | rVB | 154698 | 168893 | 3.19% | 0.408% |
| 2 | 1.724 | 10 | 12 | 29 | rVB | 1489861 | 4082503 | 77.06% | 9.852% |
| 3 | 3.701 | 182 | 185 | 201 | rBV | 182322 | 653785 | 12.34% | 1.578% |
| 4 | 4.136 | 221 | 223 | 258 | rBV | 455957 | 3211050 | 60.61% | 7.749% |
| 5 | 5.427 | 333 | 336 | 345 | rBV | 468079 | 2386115 | 45.04% | 5.758% |
| 6 | 5.564 | 345 | 348 | 374 | rVV | 1143887 | 5297852 | 100.00% | 12.785% |
| 7 | 5.907 | 374 | 378 | 391 | rVV | 138834 | 966381 | 18.24% | 2.332% |
| 8 | 6.090 | 391 | 394 | 419 | rVB | 824989 | 2908140 | 54.89% | 7.018% |
| 9 | 6.719 | 446 | 449 | 478 | rBV | 363873 | 2450272 | 46.25% | 5.913% |
| 10 | 7.073 | 478 | 480 | 488 | rVB | 22419 | 62764 | 1.18% | 0.151% |
| 11 | 7.793 | 540 | 543 | 577 | rBV | 176001 | 1156186 | 21.82% | 2.790% |
| 12 | 9.531 | 692 | 695 | 734 | rBV | 1582619 | 4955715 | 93.54% | 11.959% |
| 13 | 10.216 | 752 | 755 | 776 | rBV | 84678 | 434235 | 8.20% | 1.048% |
| 14 | 10.582 | 783 | 787 | 801 | rBV | 423459 | 1378678 | 26.02% | 3.327% |
| 15 | 11.416 | 856 | 860 | 863 | rBV | 77166 | 162330 | 3.06% | 0.392% |
| 16 | 11.771 | 886 | 891 | 897 | rBV | 34919 | 103396 | 1.95% | 0.250% |
| 17 | 11.885 | 897 | 901 | 925 | rVV | 723138 | 3023846 | 57.08% | 7.297% |
| 18 | 12.194 | 925 | 928 | 939 | rVB | 90558 | 286477 | 5.41% | 0.691% |
| 19 | 12.925 | 989 | 992 | 994 | rBV | 36434 | 75474 | 1.42% | 0.182% |
| 20 | 12.994 | 995 | 998 | 1016 | rVV | 351904 | 1268727 | 23.95% | 3.062% |
| 21 | 15.451 | 1210 | 1213 | 1218 | rBV | 30896 | 57257 | 1.08% | 0.138% |
| 22 | 15.623 | 1225 | 1228 | 1243 | rVB | 1894334 | 3898348 | 73.58% | 9.408% |
| 23 | 17.097 | 1354 | 1357 | 1362 | rBV | 329422 | 652357 | 12.31% | 1.574% |
| 24 | 17.177 | 1362 | 1364 | 1376 | rVB | 456539 | 930874 | 17.57% | 2.246% |
| 25 | 17.897 | 1425 | 1427 | 1435 | rBV2 | 20603 | 58052 | 1.10% | 0.140% |
| 26 | 18.800 | 1503 | 1506 | 1512 | rBV | 334240 | 668973 | 12.63% | 1.614% |
| 27 | 19.326 | 1549 | 1552 | 1555 | rVV3 | 32544 | 78409 | 1.48% | 0.189% |
| 28 | 19.737 | 1585 | 1588 | 1591 | rVB | 33629 | 61156 | 1.15% | 0.148% |

Sum of corrected areas: 41438245

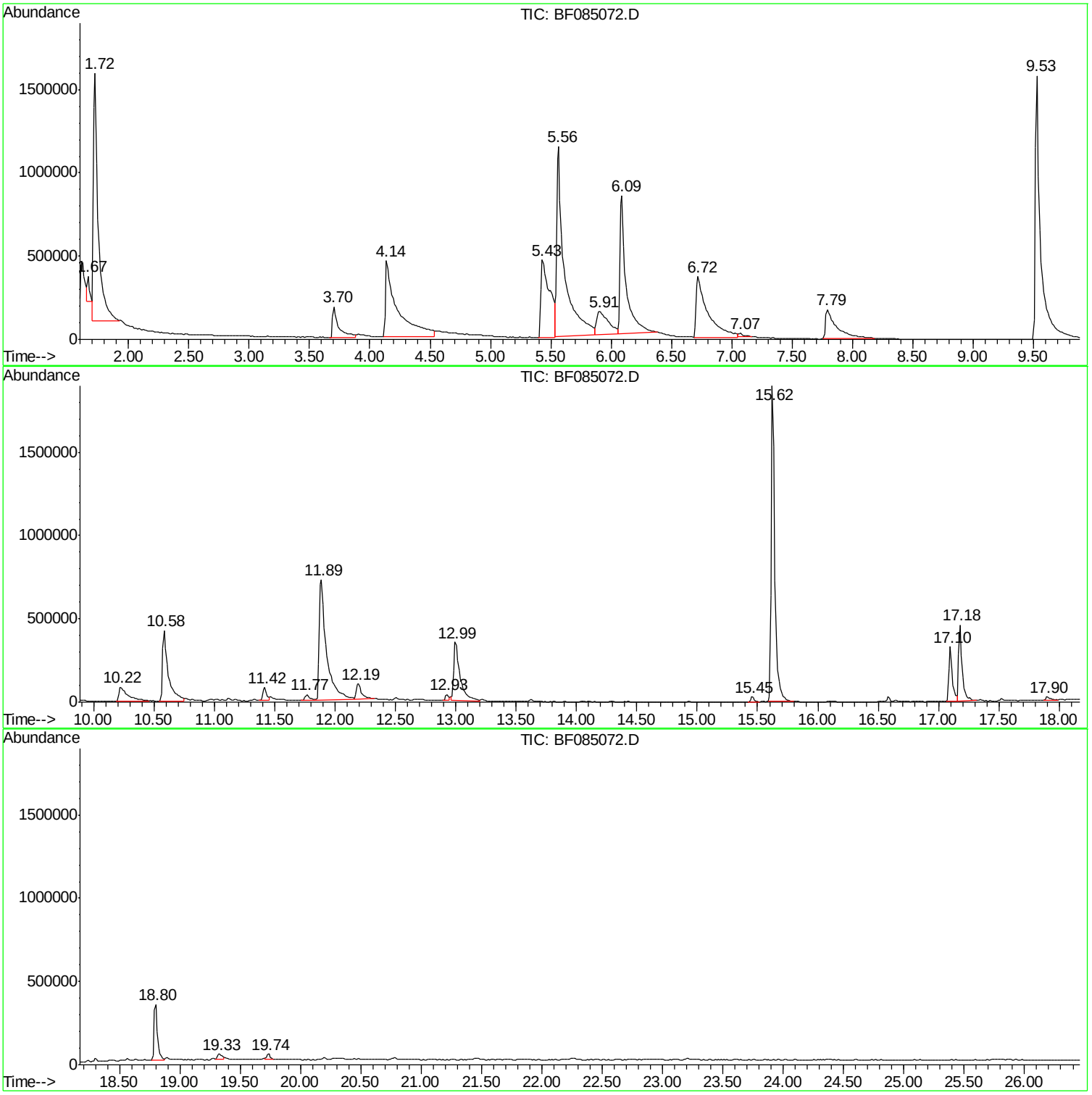
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA F\DATA\BF021416\
Data File : BF085072.D
Acq On : 13 Feb 2016 7:55
Operator : SJ/IZ
Sample : H1409-03
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
SUP-B004(42-44)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF021316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF021416\
Data File : BF085072.D
Acq On : 13 Feb 2016 7:55
Operator : SJ/IZ
Sample : H1409-03
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SUP-B004(42-44)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF021316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

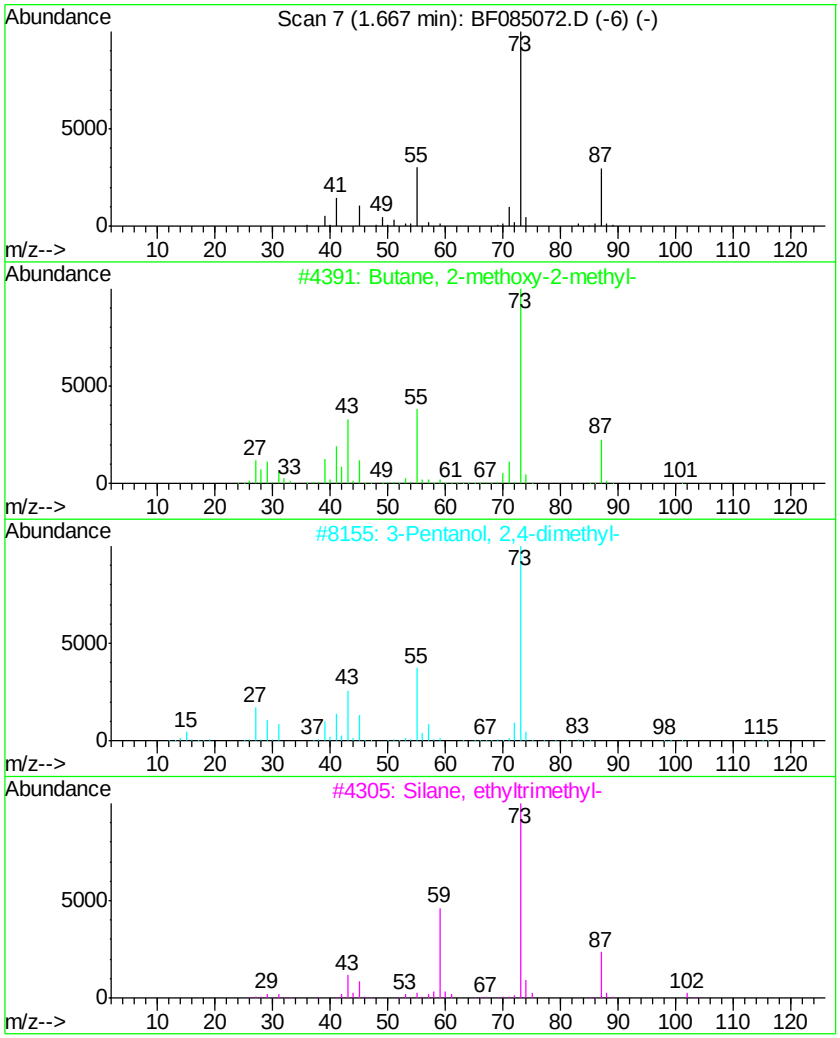
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

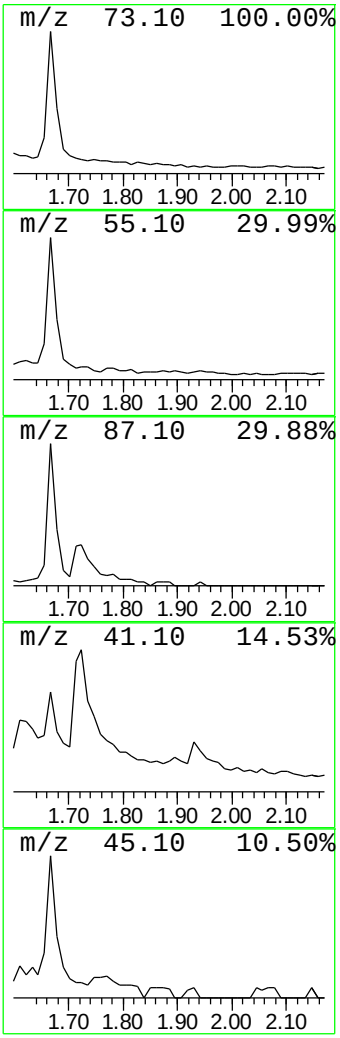
**********

Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 1.67 | 3.50 ng | 168893 | 1,4-Dichlorobenzene-d4 | 5.91 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butane, 2-methoxy-2-methyl- | 102 | C6H14O | 000994-05-8 | 53 |
| 2 | 3-Pentanol, 2,4-dimethyl- | 116 | C7H16O | 000600-36-2 | 17 |
| 3 | Silane, ethyltrimethyl- | 102 | C5H14Si | 003439-38-1 | 9 |
| 4 | 3-Hexanol, 2-methyl- | 116 | C7H16O | 000617-29-8 | 9 |
| 5 | 1,3-Dioxolane, 2-methyl- | 88 | C4H8O2 | 000497-26-7 | 7 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF021416\
Data File : BF085072.D
Acq On : 13 Feb 2016 7:55
Operator : SJ/IZ
Sample : H1409-03
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SUP-B004(42-44)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF021316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

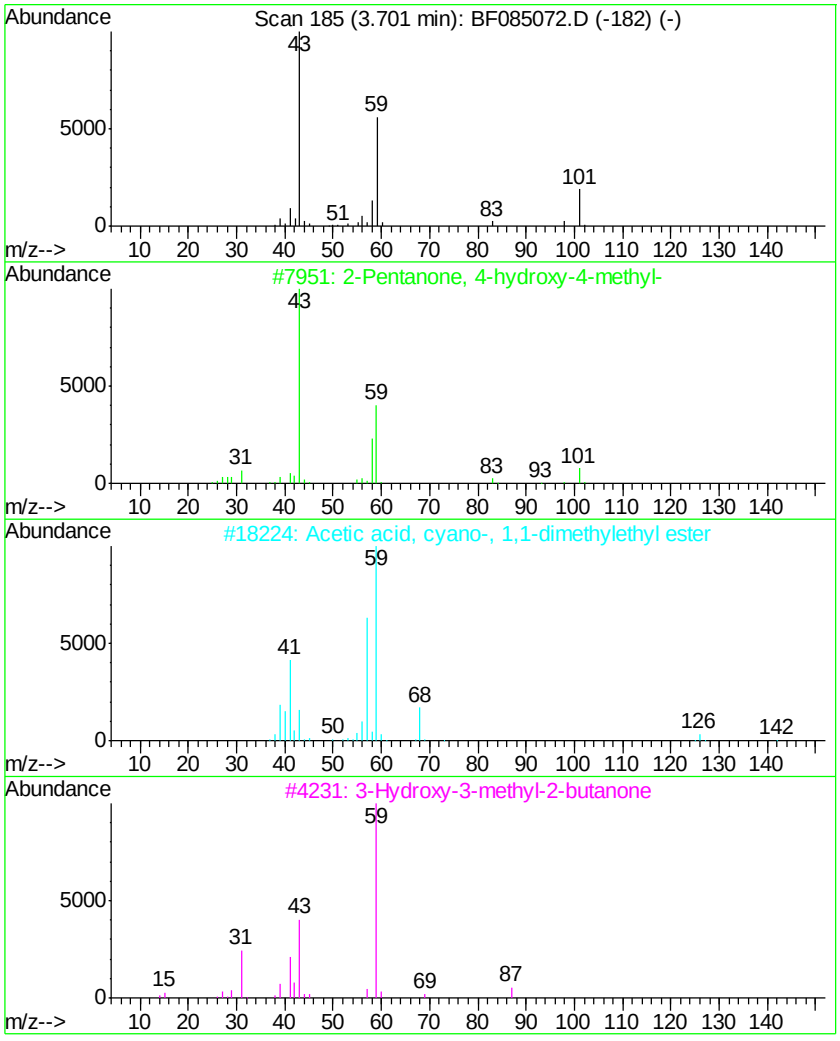
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

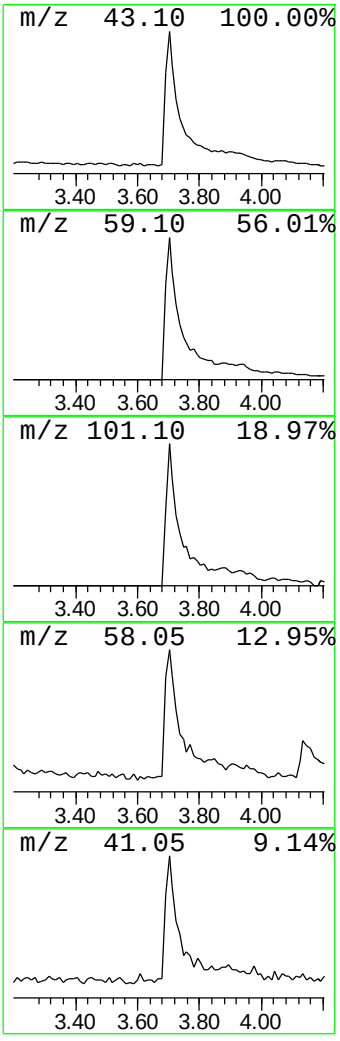
**********

Peak Number 3 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 3.70 | 13.53 ng | 653785 | 1,4-Dichlorobenzene-d4 | 5.91 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 45 |
| 2 | Acetic acid, cyano-, 1,1-dimethy... | 141 | C7H11NO2 | 001116-98-9 | 23 |
| 3 | 3-Hydroxy-3-methyl-2-butanone | 102 | C5H10O2 | 000115-22-0 | 9 |
| 4 | 4-Hydroxy-3-hexanone | 116 | C6H12O2 | 004984-85-4 | 9 |
| 5 | 3-Pentanol, 2-methyl- | 102 | C6H14O | 000565-67-3 | 9 |



Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF021416\
Data File : BF085072.D
Acq On : 13 Feb 2016 7:55
Operator : SJ/IZ
Sample : H1409-03
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SUP-B004(42-44)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF021316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

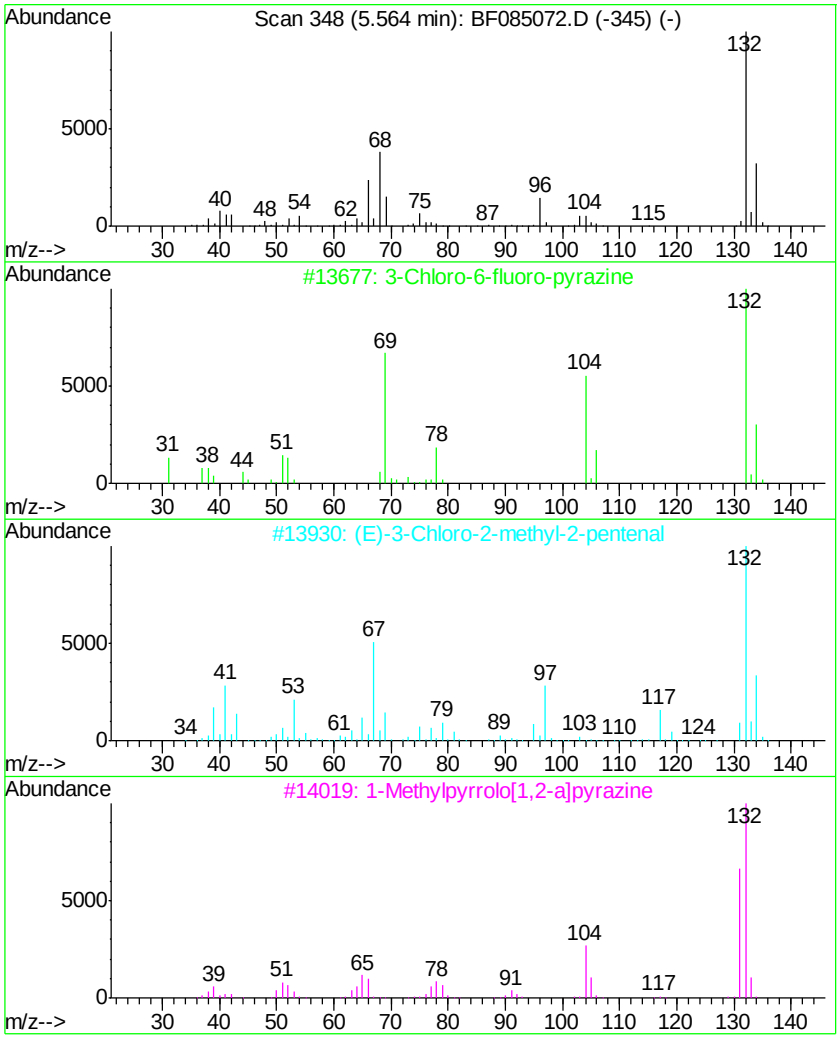
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

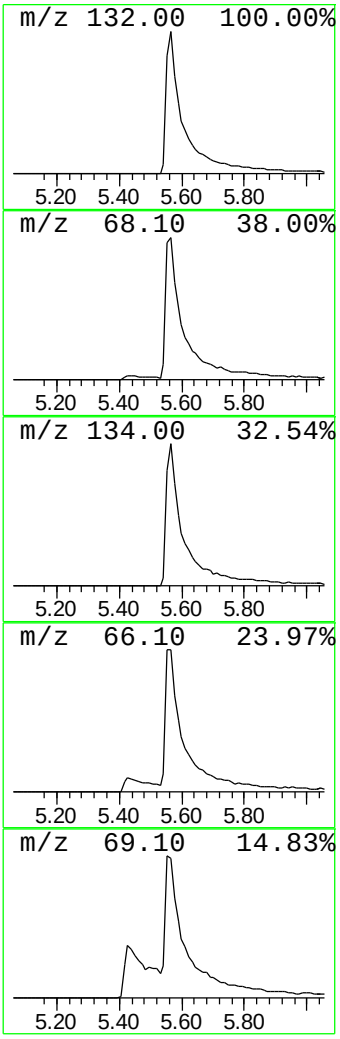
**********

Peak Number 4 unknown5.56 Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.56 | 109.64 ng | 5297850 | 1,4-Dichlorobenzene-d4 | 5.91 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Chloro-6-fluoro-pyrazine | 132 | C4H2ClFN2 | 1000146-10-7 | 25 |
| 2 | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO | 031357-76-3 | 17 |
| 3 | 1-Methylpyrrolo[1,2-a]pyrazine | 132 | C8H8N2 | 064608-59-9 | 9 |
| 4 | 4-Chloro-2-fluoro-pyrimidine | 132 | C4H2ClFN2 | 051422-00-5 | 9 |
| 5 | Benzene, 1,3,5-trifluoro- | 132 | C6H3F3 | 000372-38-3 | 9 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF021416\
Data File : BF085072.D
Acq On : 13 Feb 2016 7:55
Operator : SJ/IZ
Sample : H1409-03
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SUP-B004(42-44)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF021316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

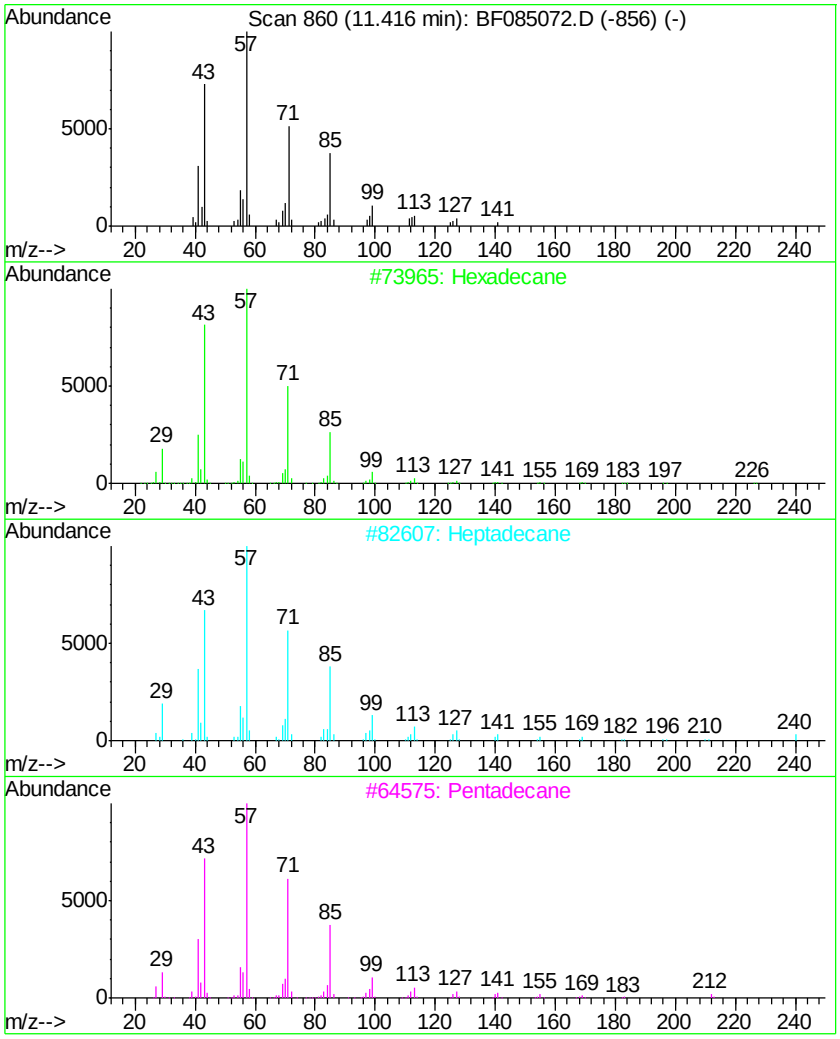
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

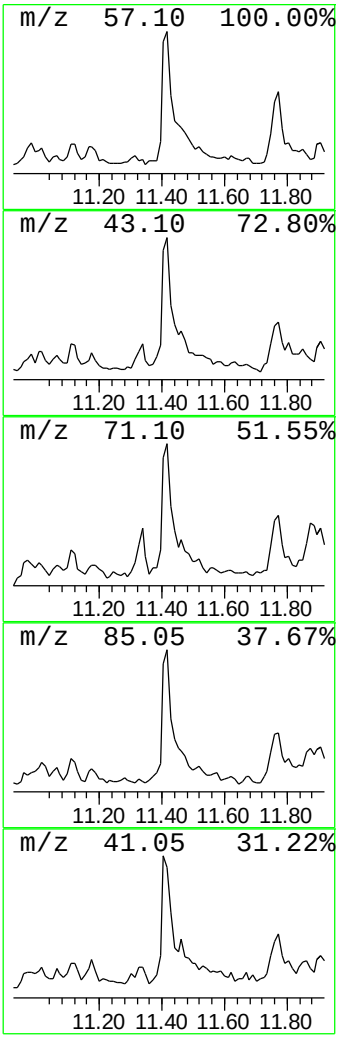
**********

Peak Number 6 Hexadecane Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.42 | 2.35 ng | 162330 | Acenaphthene-d10 | 10.58 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexadecane | 226 | C16H34 | 000544-76-3 | 90 |
| 2 | Heptadecane | 240 | C17H36 | 000629-78-7 | 86 |
| 3 | Pentadecane | 212 | C15H32 | 000629-62-9 | 86 |
| 4 | Tridecane | 184 | C13H28 | 000629-50-5 | 86 |
| 5 | Silane, trichlorooctadecyl- | 386 | C18H37Cl3Si | 000112-04-9 | 86 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF021416\
Data File : BF085072.D
Acq On : 13 Feb 2016 7:55
Operator : SJ/IZ
Sample : H1409-03
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SUP-B004(42-44)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF021316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

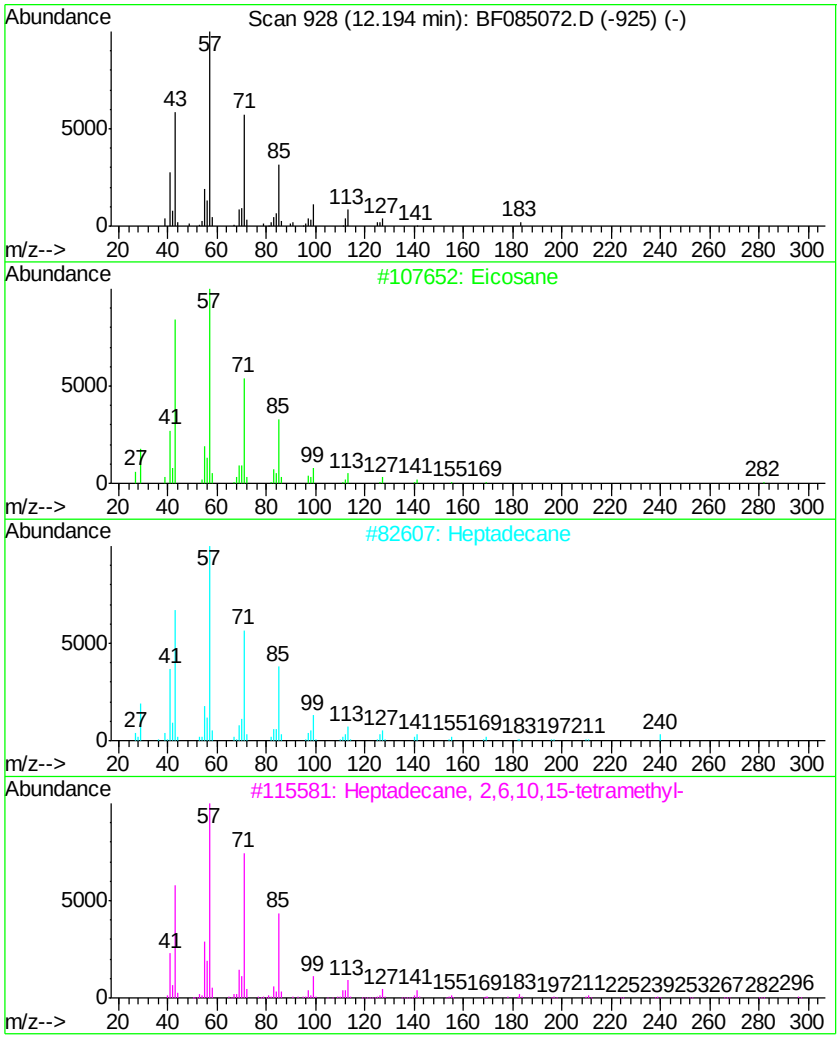
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

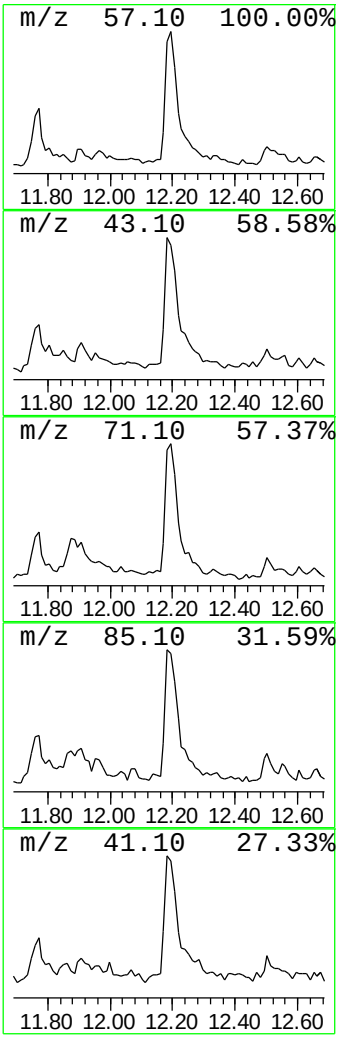
**********

Peak Number 7 Eicosane Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.19 | 4.52 ng | 286477 | Phenanthrene-d10 | 12.99 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Eicosane | 282 | C20H42 | 000112-95-8 | 91 |
| 2 | Heptadecane | 240 | C17H36 | 000629-78-7 | 90 |
| 3 | Heptadecane, 2,6,10,15-tetramethyl- | 296 | C21H44 | 054833-48-6 | 86 |
| 4 | Decane, 2,3,5-trimethyl- | 184 | C13H28 | 062238-11-3 | 86 |
| 5 | Pentadecane | 212 | C15H32 | 000629-62-9 | 86 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF021416\
Data File : BF085072.D
Acq On : 13 Feb 2016 7:55
Operator : SJ/IZ
Sample : H1409-03
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SUP-B004(42-44)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF021316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

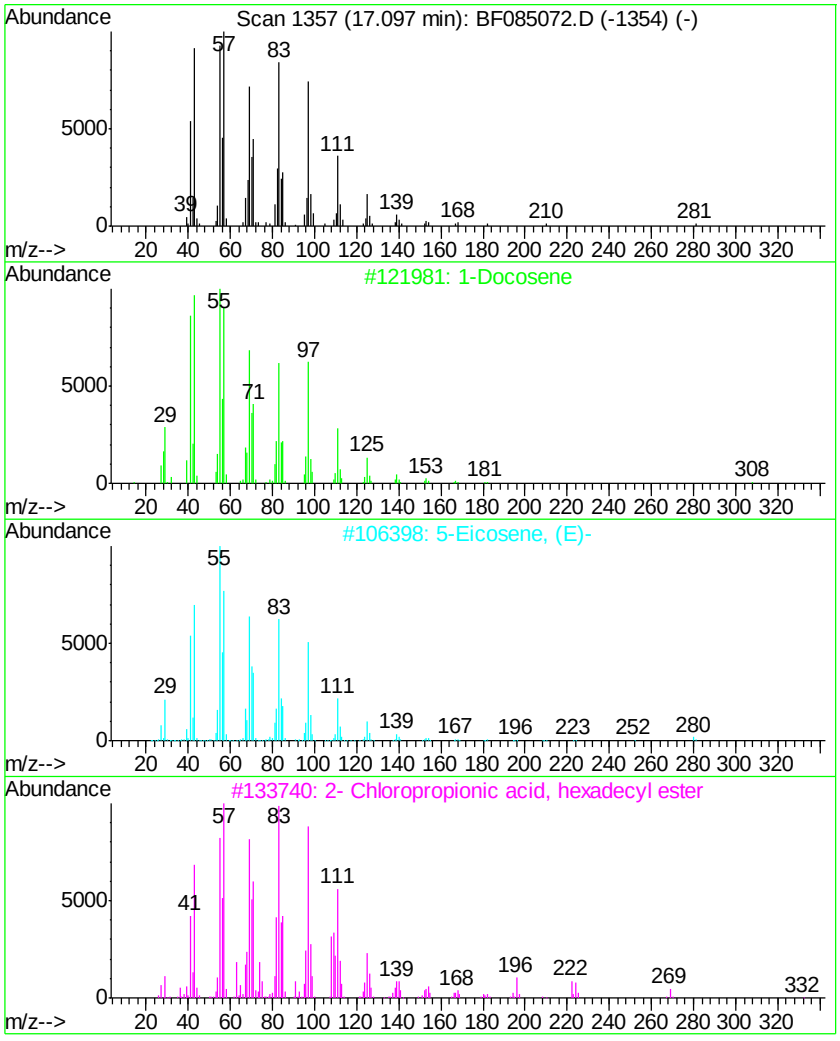
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

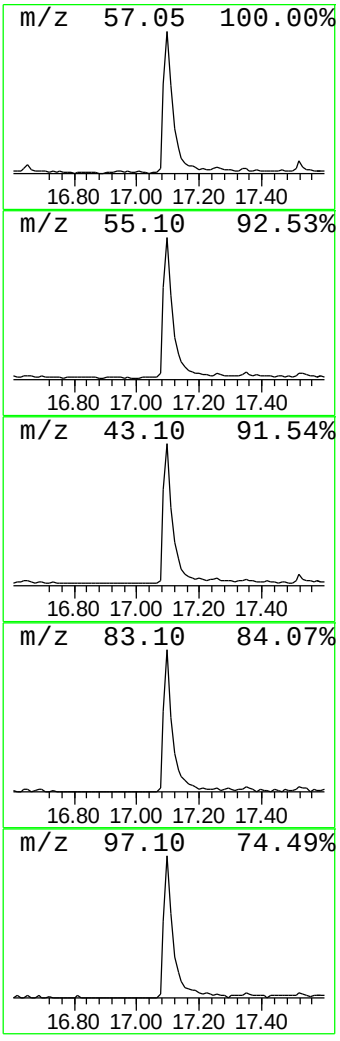
**********

Peak Number 8 1-Docosene Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.10 | 14.02 ng | 652357 | Chrysene-d12 | 17.18 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Docosene | 308 | C22H44 | 001599-67-3 | 94 |
| 2 | 5-Eicosene, (E)- | 280 | C20H40 | 074685-30-6 | 91 |
| 3 | 2- Chloropropionic acid, hexadec... | 332 | C19H37ClO2 | 086711-81-1 | 91 |
| 4 | Bromoacetic acid, octadecyl ester | 390 | C20H39BrO2 | 018992-03-5 | 91 |
| 5 | Bromoacetic acid, hexadecyl ester | 362 | C18H35BrO2 | 005454-48-8 | 91 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF021416\
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Acq On : 13 Feb 2016 7:55
Operator : SJ/IZ
Sample : H1409-03
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SUP-B004(42-44)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF021316.M
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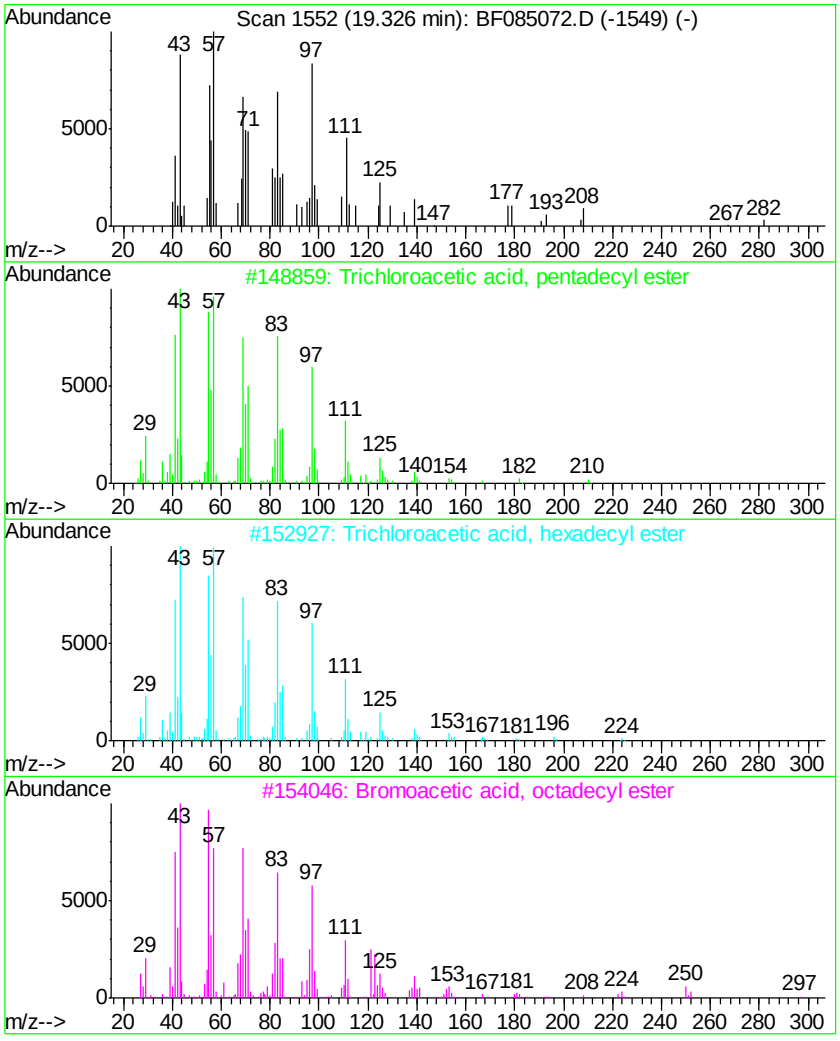
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

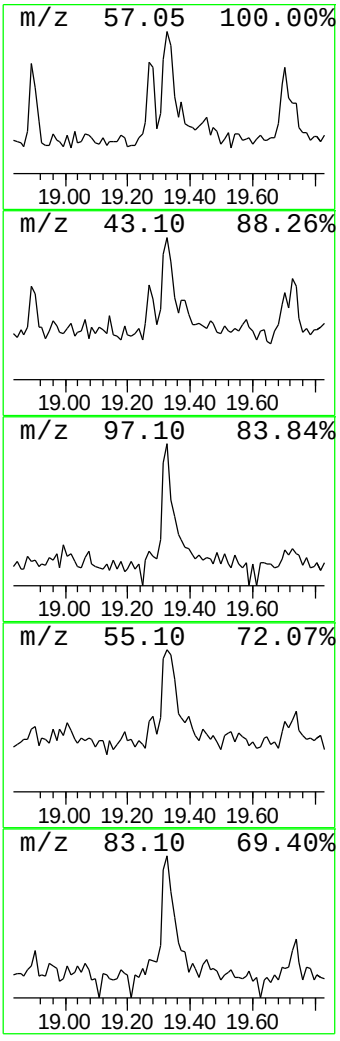
**********

Peak Number 9 Trichloroacetic acid, penta... Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.33 | 2.34 ng | 78409 | Perylene-d12 | 18.80 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Trichloroacetic acid, pentadecyl... | 372 | C17H31Cl3O2 | 074339-53-0 | 91 |
| 2 | Trichloroacetic acid, hexadecyl ... | 386 | C18H33Cl3O2 | 074339-54-1 | 87 |
| 3 | Bromoacetic acid, octadecyl ester | 390 | C20H39BrO2 | 018992-03-5 | 87 |
| 4 | Cycloeicosane | 280 | C20H40 | 000296-56-0 | 87 |
| 5 | 1-Nonadecene | 266 | C19H38 | 018435-45-5 | 87 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF021416\
Data File : BF085072.D
Acq On : 13 Feb 2016 7:55
Operator : SJ/IZ
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Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SUP-B004(42-44)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF021316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

| | | | | | Internal Standard | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| Butane, 2-methoxy... | 1.67 | 3.5 | ng | 168893 | 1 | 5.91 | 966381 | 20.0 |
| 2-Pentanone, 4-hy... | 3.70 | 13.5 | ng | 653785 | 1 | 5.91 | 966381 | 20.0 |
| unknown5.56 | 5.56 | 109.6 | ng | 5297850 | 1 | 5.91 | 966381 | 20.0 |
| Hexadecane | 11.42 | 2.4 | ng | 162330 | 3 | 10.58 | 1378680 | 20.0 |
| Eicosane | 12.19 | 4.5 | ng | 286477 | 4 | 12.99 | 1268730 | 20.0 |
| 1-Docosene | 17.10 | 14.0 | ng | 652357 | 5 | 17.18 | 930874 | 20.0 |
| Trichloroacetic a... | 19.33 | 2.3 | ng | 78409 | 6 | 18.80 | 668973 | 20.0 |