LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF081716\
Data File : BF089779.D
Acq On : 17 Aug 2016 22:32
Operator : UM/SJ
Sample : H4490-08
Misc :
ALS Vial : 50 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 670-UNDERCLIFF-4

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-BF081616.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 | 16 | rVV | 1365866 | 2640964 | 10.06% | 1.828% |
| 2 | 1.793 | 16 | 18 | 68 | rVB | 10232603 | 26240600 | 100.00% | 18.162% |
| 3 | 4.844 | 282 | 285 | 295 | rVB | 2583542 | 3718297 | 14.17% | 2.574% |
| 4 | 5.279 | 320 | 323 | 325 | rBV | 9823904 | 9986524 | 38.06% | 6.912% |
| 5 | 6.330 | 412 | 415 | 418 | rVB | 8751275 | 9826103 | 37.45% | 6.801% |
| 6 | 6.467 | 424 | 427 | 429 | rBV | 7996598 | 11384581 | 43.39% | 7.880% |
| 7 | 6.696 | 445 | 447 | 449 | rBV | 4069741 | 3282003 | 12.51% | 2.272% |
| 8 | 6.856 | 458 | 461 | 463 | rBV | 9726069 | 9131679 | 34.80% | 6.320% |
| 9 | 7.256 | 493 | 496 | 499 | rBV | 4878155 | 6811959 | 25.96% | 4.715% |
| 10 | 7.382 | 502 | 507 | 509 | rBV | 453464 | 710698 | 2.71% | 0.492% |
| 11 | 7.988 | 557 | 560 | 562 | rBV | 3081970 | 4158712 | 15.85% | 2.878% |
| 12 | 9.062 | 651 | 654 | 657 | rBV | 11735627 | 11749157 | 44.77% | 8.132% |
| 13 | 9.462 | 686 | 689 | 691 | rBV | 6177895 | 5357562 | 20.42% | 3.708% |
| 14 | 9.736 | 710 | 713 | 715 | rBV | 5173640 | 4885087 | 18.62% | 3.381% |
| 15 | 10.182 | 751 | 752 | 754 | rVB | 275819 | 287551 | 1.10% | 0.199% |
| 16 | 10.514 | 778 | 781 | 784 | rBV | 6600153 | 7339193 | 27.97% | 5.080% |
| 17 | 10.662 | 792 | 794 | 798 | rBV | 326192 | 511457 | 1.95% | 0.354% |
| 18 | 11.108 | 829 | 833 | 834 | rBV2 | 243549 | 270091 | 1.03% | 0.187% |
| 19 | 11.211 | 839 | 842 | 844 | rBV | 5428591 | 4969643 | 18.94% | 3.440% |
| 20 | 11.759 | 888 | 890 | 894 | rBV2 | 426128 | 427709 | 1.63% | 0.296% |
| 21 | 12.799 | 978 | 981 | 984 | rBV | 11758183 | 11712922 | 44.64% | 8.107% |
| 22 | 13.725 | 1060 | 1062 | 1069 | rBV | 194881 | 523899 | 2.00% | 0.363% |
| 23 | 13.840 | 1069 | 1072 | 1074 | rBV | 3864161 | 4799731 | 18.29% | 3.322% |
| 24 | 15.234 | 1191 | 1194 | 1196 | rBV | 2932765 | 3755886 | 14.31% | 2.600% |

Sum of corrected areas: 144482008

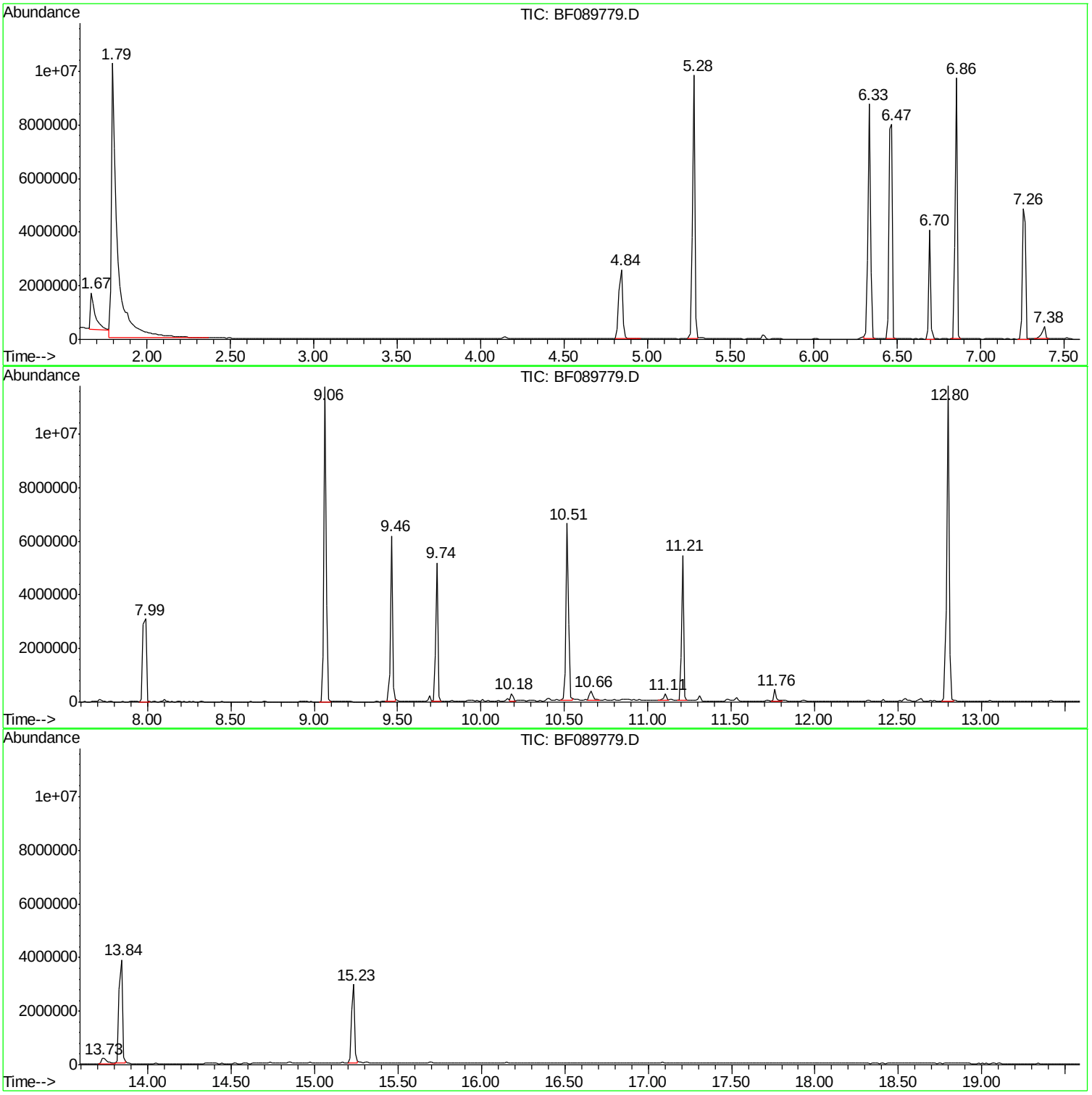
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA F\DATA\BF081716\
Data File : BF089779.D
Acq On : 17 Aug 2016 22:32
Operator : UM/SJ
Sample : H4490-08
Misc :
ALS Vial : 50 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
670-UNDERCLIFF-4

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF081616.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\HPCHEM1\BNA F\DATA\BF081716\
Data File : BF089779.D
Acq On : 17 Aug 2016 22:32
Operator : UM/SJ
Sample : H4490-08
Misc :
ALS Vial : 50 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 670-UNDERCLIFF-4

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF081616.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

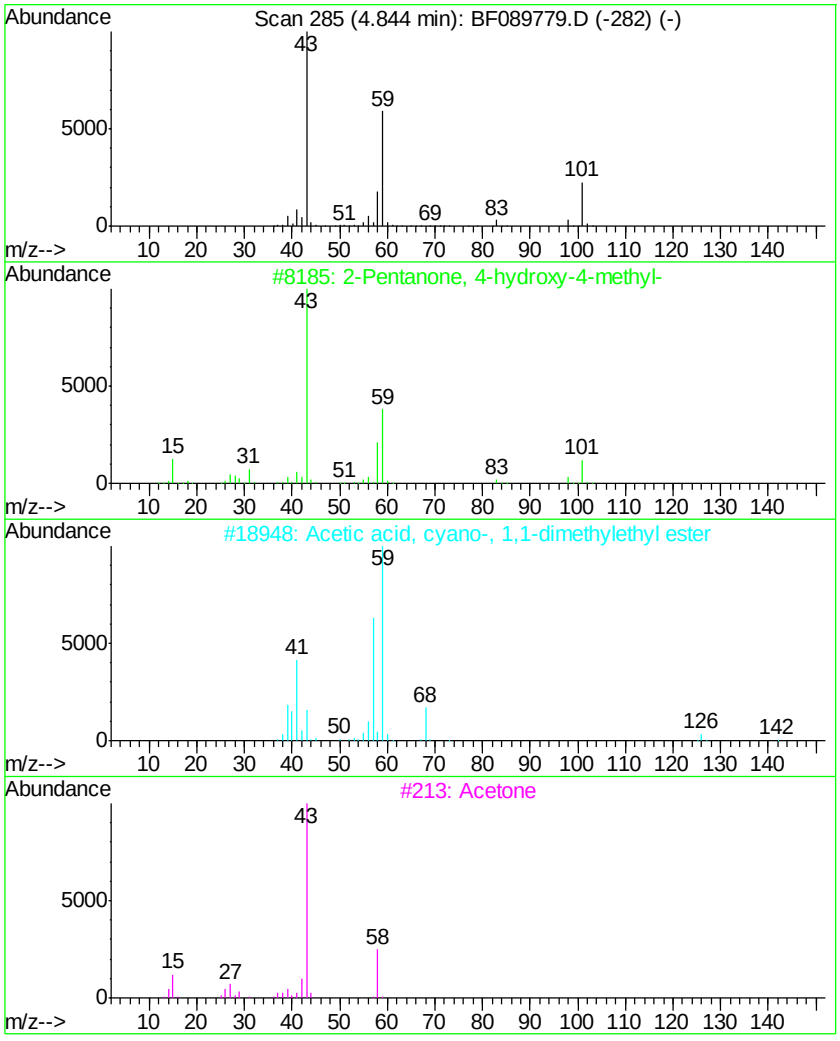
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

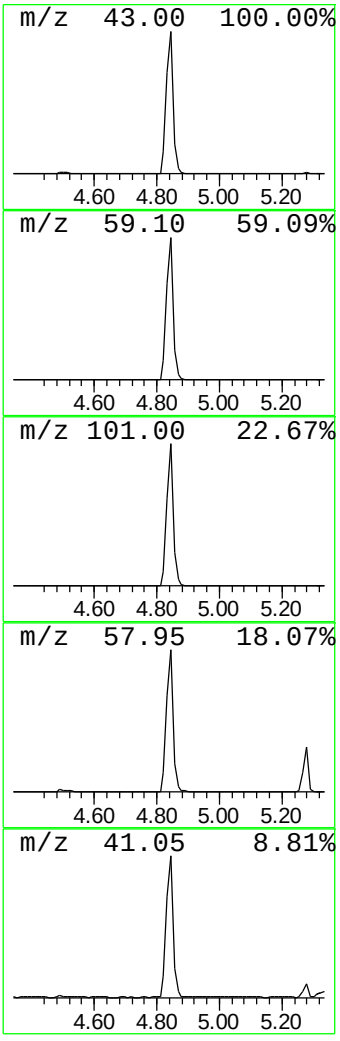
**********

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

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.84 | 22.66 ng | 3718300 | 1,4-Dichlorobenzene-d4 | 6.70 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 50 |
| 2 | Acetic acid, cyano-, 1,1-dimethy... | 141 | C7H11NO2 | 001116-98-9 | 23 |
| 3 | Acetone | 58 | C3H6O | 000067-64-1 | 9 |
| 4 | Butane, 1-ethoxy- | 102 | C6H14O | 000628-81-9 | 9 |
| 5 | 5-Hexen-2-one | 98 | C6H10O | 000109-49-9 | 9 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF081716\
Data File : BF089779.D
Acq On : 17 Aug 2016 22:32
Operator : UM/SJ
Sample : H4490-08
Misc :
ALS Vial : 50 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
670-UNDERCLIFF-4

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF081616.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

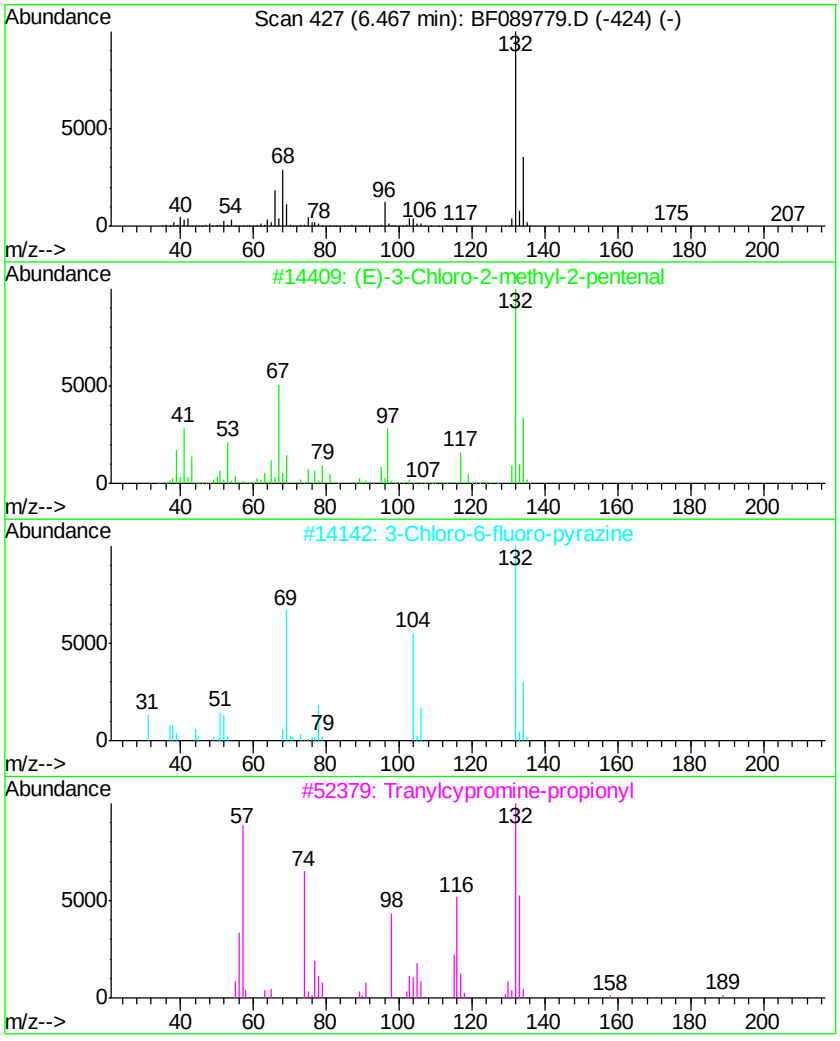
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

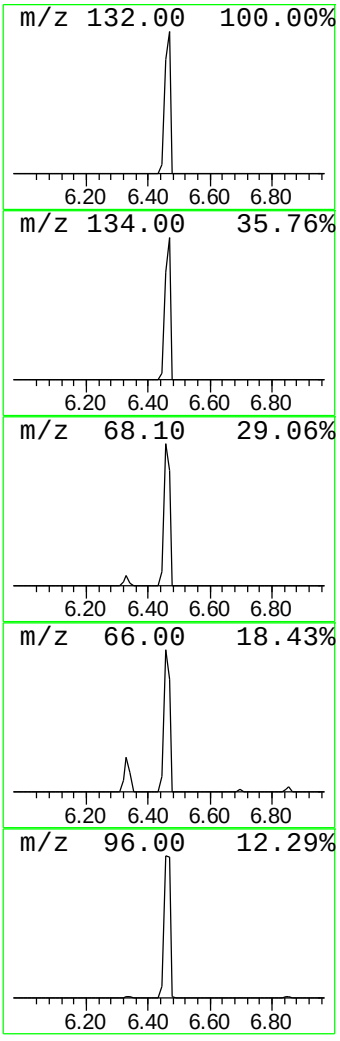
**********

Peak Number 4 (E)-3-Chloro-2-methyl-2-pen... Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.47 | 69.38 ng | 11384600 | 1,4-Dichlorobenzene-d4 | 6.70 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO | 031357-76-3 | 50 |
| 2 | 3-Chloro-6-fluoro-pyrazine | 132 | C4H2ClFN2 | 1000146-10-7 | 40 |
| 3 | Tranylcypromine-propionyl | 189 | C12H15NO | 1000123-86-3 | 37 |
| 4 | Amphetaminil | 250 | C17H18N2 | 017590-01-1 | 28 |
| 5 | 1H-Indazole, 7-methyl- | 132 | C8H8N2 | 1000316-00-7 | 25 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF081716\
Data File : BF089779.D
Acq On : 17 Aug 2016 22:32
Operator : UM/SJ
Sample : H4490-08
Misc :
ALS Vial : 50 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 670-UNDERCLIFF-4

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF081616.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

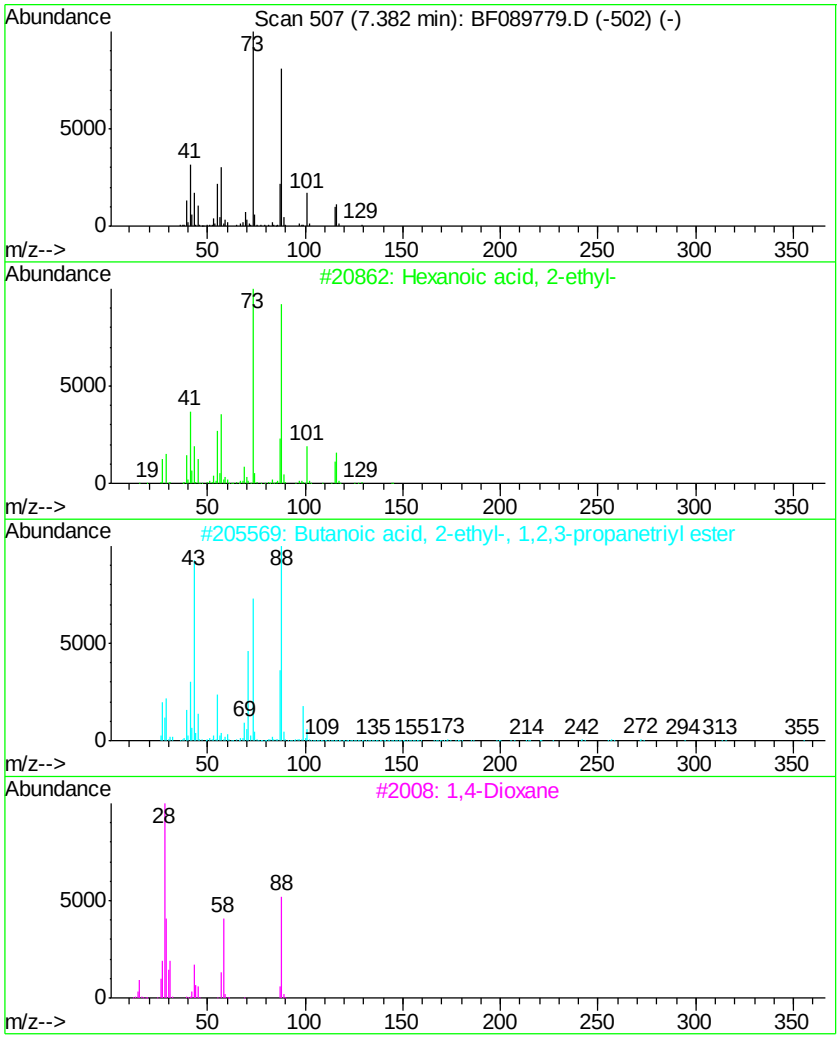
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

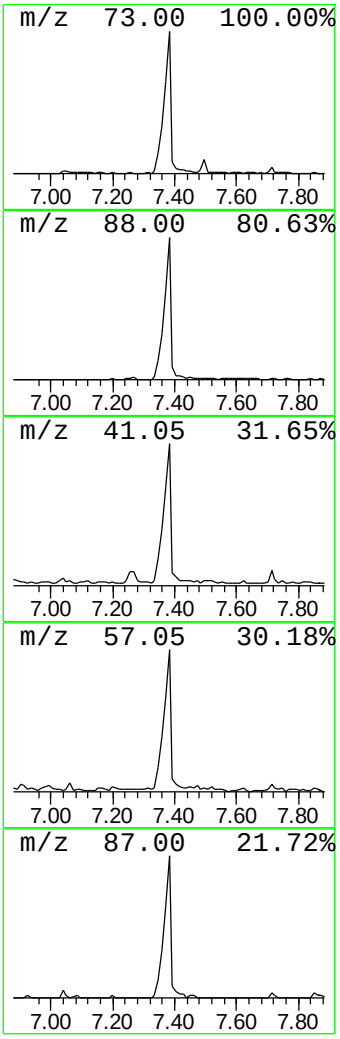
**********

Peak Number 6 Hexanoic acid, 2-ethyl- Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.38 | 3.42 ng | 710698 | Naphthalene-d8 | 7.99 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexanoic acid, 2-ethyl- | 144 | C8H16O2 | 000149-57-5 | 90 |
| 2 | Butanoic acid, 2-ethyl-, 1,2,3-p... | 386 | C21H38O6 | 056554-54-2 | 59 |
| 3 | 1,4-Dioxane | 88 | C4H8O2 | 000123-91-1 | 38 |
| 4 | L(-)-Fucose, tetramethyl ether | 220 | C10H20O5 | 1000332-75-0 | 36 |
| 5 | Methyl 2,3,4-tri-O-methyl-6-deox... | 220 | C10H20O5 | 072983-16-5 | 33 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF081716\
Data File : BF089779.D
Acq On : 17 Aug 2016 22:32
Operator : UM/SJ
Sample : H4490-08
Misc :
ALS Vial : 50 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 670-UNDERCLIFF-4

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF081616.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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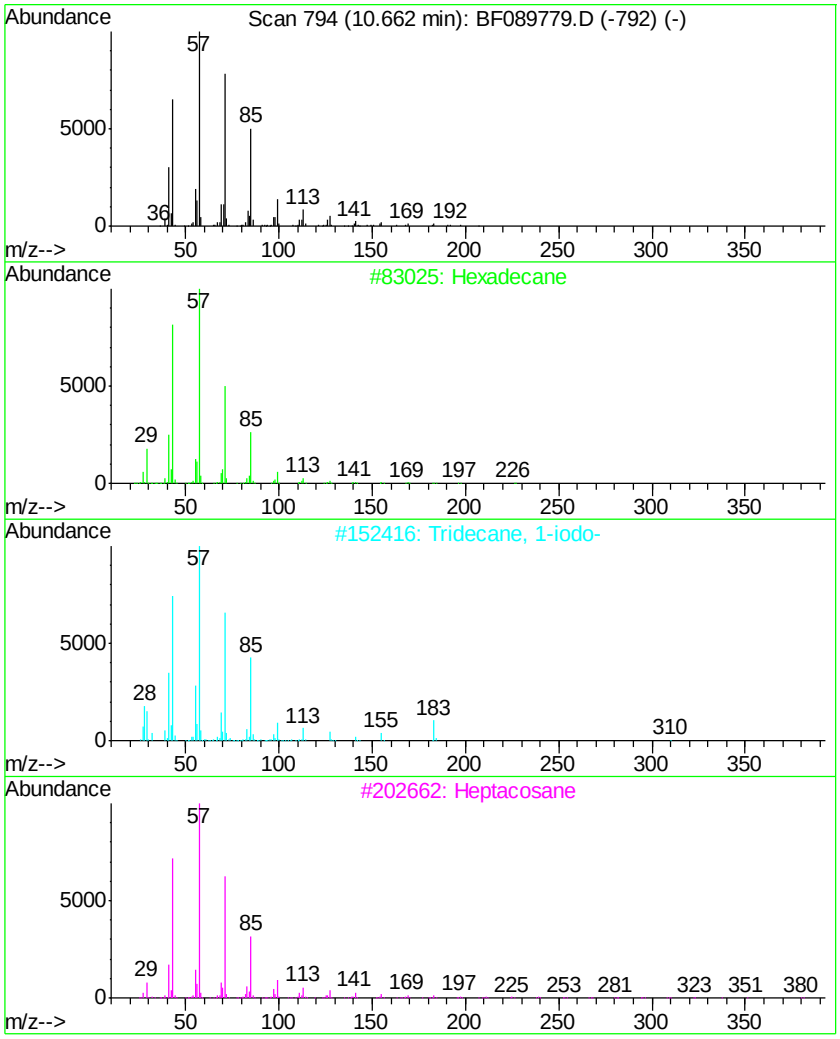
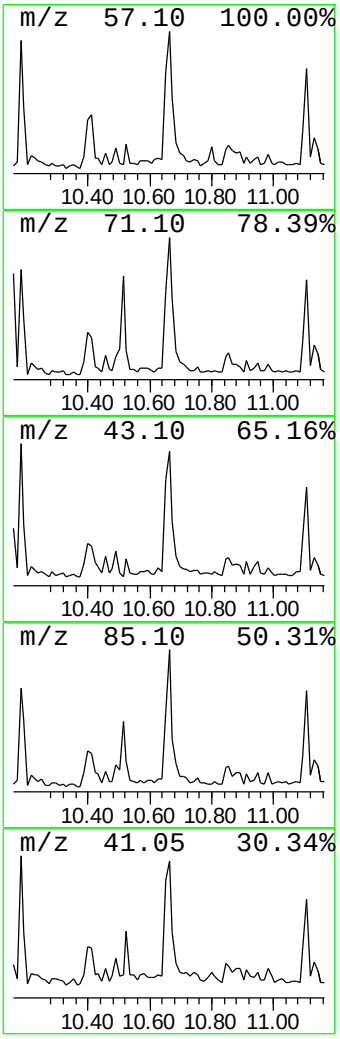
Peak Number 7 Hexadecane Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.66 | 2.06 ng | 511457 | Phenanthrene-d10 | 11.21 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexadecane | 226 | C16H34 | 000544-76-3 | 90 |
| 2 | Tridecane, 1-iodo- | 310 | C13H27I | 035599-77-0 | 90 |
| 3 | Heptacosane | 380 | C27H56 | 000593-49-7 | 80 |
| 4 | Heptadecane, 7-methyl- | 254 | C18H38 | 020959-33-5 | 72 |
| 5 | Heneicosane | 296 | C21H44 | 000629-94-7 | 64 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF081716\
Data File : BF089779.D
Acq On : 17 Aug 2016 22:32
Operator : UM/SJ
Sample : H4490-08
Misc :
ALS Vial : 50 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 670-UNDERCLIFF-4

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF081616.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

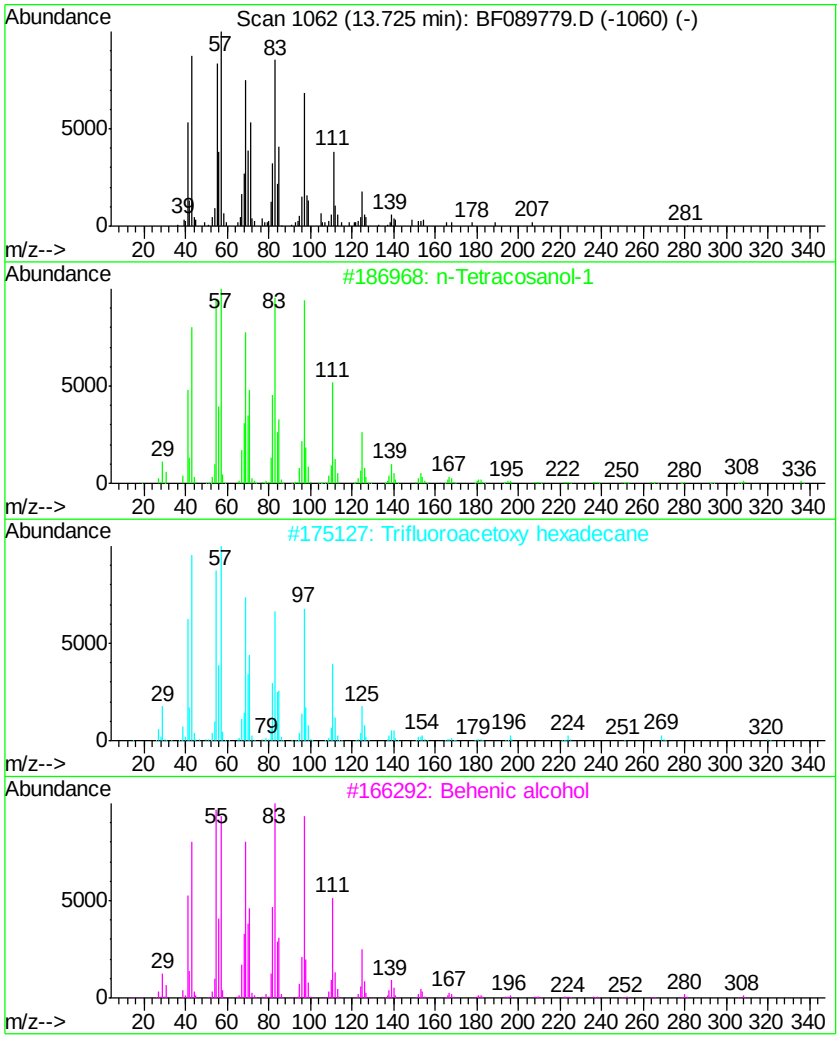
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

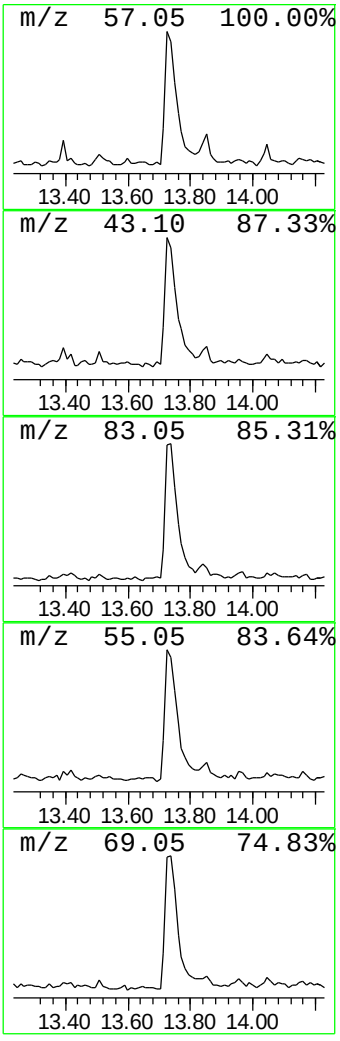
**********

Peak Number 8 n-Tetracosanol-1 Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.73 | 2.18 ng | 523899 | Chrysene-d12 | 13.84 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | n-Tetracosanol-1 | 354 | C24H50O | 000506-51-4 | 94 |
| 2 | Trifluoroacetoxy hexadecane | 338 | C18H33F3O2 | 006222-03-3 | 91 |
| 3 | Behenic alcohol | 326 | C22H46O | 000661-19-8 | 90 |
| 4 | 1-Heptacosanol | 396 | C27H56O | 002004-39-9 | 90 |
| 5 | 1-Nonadecene | 266 | C19H38 | 018435-45-5 | 90 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF081716\
Data File : BF089779.D
Acq On : 17 Aug 2016 22:32
Operator : UM/SJ
Sample : H4490-08
Misc :
ALS Vial : 50 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 670-UNDERCLIFF-4

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF081616.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... | 4.84 | 22.7 | ng | 3718300 | 1 | 6.70 | 3282000 | 20.0 |
| (E)-3-Chloro-2-me... | 6.47 | 69.4 | ng | 11384600 | 1 | 6.70 | 3282000 | 20.0 |
| Hexanoic acid, 2-... | 7.38 | 3.4 | ng | 710698 | 2 | 7.99 | 4158710 | 20.0 |
| Hexadecane | 10.66 | 2.1 | ng | 511457 | 4 | 11.21 | 4969640 | 20.0 |
| n-Tetracosanol-1 | 13.73 | 2.2 | ng | 523899 | 5 | 13.84 | 4799730 | 20.0 |