LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF051316\
Data File : BF086985.D
Acq On : 13 May 2016 22:21
Operator : UM/SJ
Sample : H2992-04
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 90THAVE-SB-26(0.5-10.0)

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-BF050916.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 | 1.736 | 11 | 13 | 48 | rVB | 4319147 | 8666127 | 100.00% | 17.554% |
| 2 | 4.742 | 274 | 276 | 289 | rBV | 701565 | 1196019 | 13.80% | 2.423% |
| 3 | 5.199 | 314 | 316 | 319 | rBV | 2960710 | 4082639 | 47.11% | 8.270% |
| 4 | 5.610 | 350 | 352 | 362 | rVB | 64767 | 100737 | 1.16% | 0.204% |
| 5 | 6.273 | 407 | 410 | 413 | rBV | 3502602 | 4157455 | 47.97% | 8.421% |
| 6 | 6.387 | 417 | 420 | 422 | rBV | 3889285 | 4516606 | 52.12% | 9.149% |
| 7 | 6.605 | 437 | 439 | 442 | rBV | 643699 | 894106 | 10.32% | 1.811% |
| 8 | 6.765 | 451 | 453 | 456 | rBV | 3281458 | 3109927 | 35.89% | 6.299% |
| 9 | 7.187 | 487 | 490 | 492 | rBV | 2990457 | 3162644 | 36.49% | 6.406% |
| 10 | 7.896 | 550 | 552 | 555 | rBV | 1186188 | 1190728 | 13.74% | 2.412% |
| 11 | 8.982 | 644 | 647 | 649 | rBV | 4625443 | 4923084 | 56.81% | 9.972% |
| 12 | 9.382 | 679 | 682 | 684 | rBV | 417192 | 414813 | 4.79% | 0.840% |
| 13 | 9.645 | 702 | 705 | 708 | rBV | 1464642 | 1374559 | 15.86% | 2.784% |
| 14 | 10.091 | 742 | 744 | 746 | rVB | 131246 | 104845 | 1.21% | 0.212% |
| 15 | 10.434 | 771 | 774 | 777 | rBV | 2791939 | 2996037 | 34.57% | 6.069% |
| 16 | 10.559 | 783 | 785 | 792 | rVB | 143925 | 184870 | 2.13% | 0.374% |
| 17 | 11.119 | 832 | 834 | 837 | rBV | 1262845 | 1317660 | 15.20% | 2.669% |
| 18 | 12.708 | 970 | 973 | 976 | rBV | 3884701 | 4483840 | 51.74% | 9.083% |
| 19 | 13.622 | 1050 | 1053 | 1061 | rBV | 66781 | 163199 | 1.88% | 0.331% |
| 20 | 13.748 | 1061 | 1064 | 1067 | rBV | 1423861 | 1340432 | 15.47% | 2.715% |
| 21 | 15.108 | 1180 | 1183 | 1186 | rBV | 878401 | 987577 | 11.40% | 2.000% |

Sum of corrected areas: 49367904

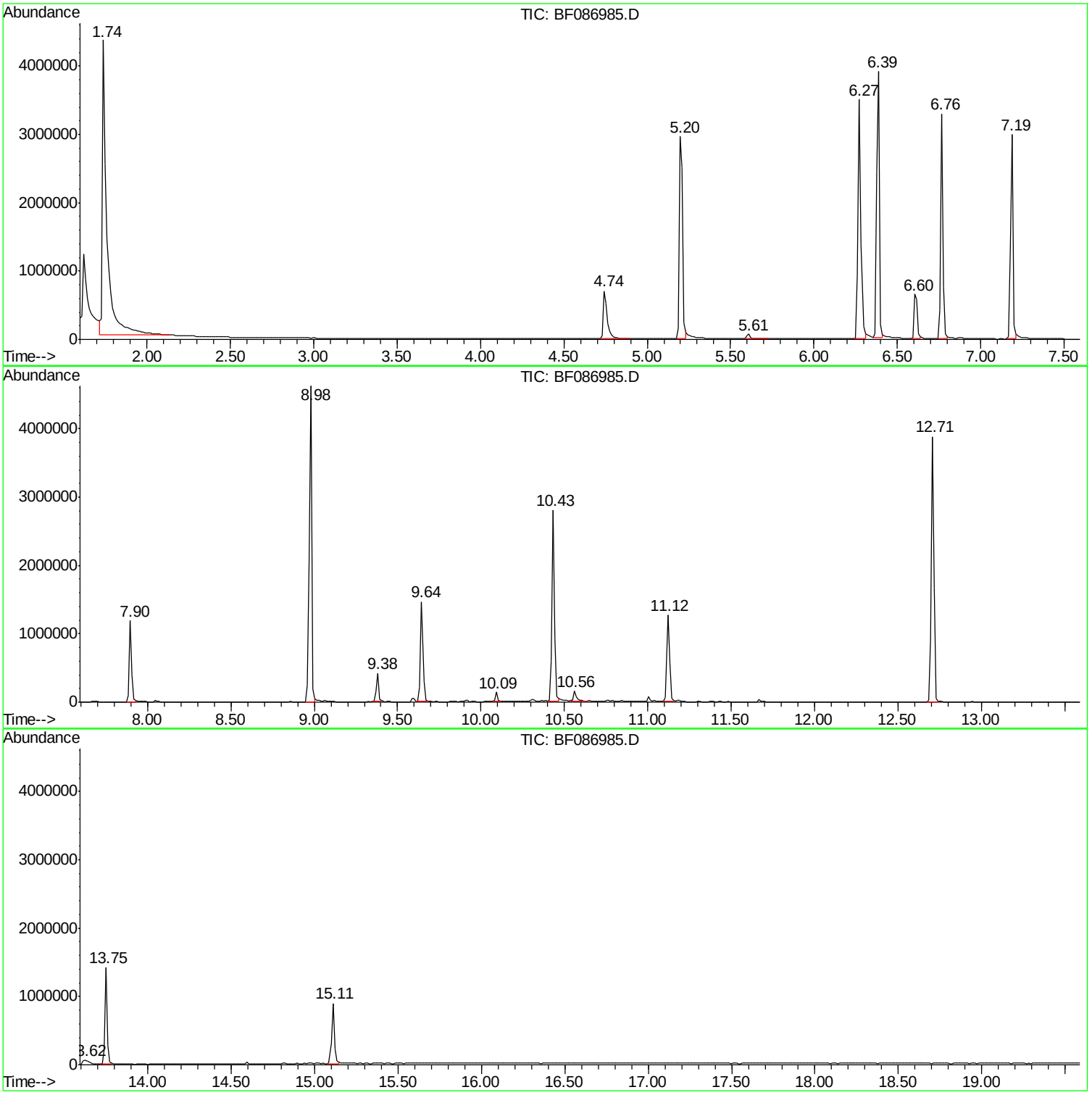
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA F\DATA\BF051316\
Data File : BF086985.D
Acq On : 13 May 2016 22:21
Operator : UM/SJ
Sample : H2992-04
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 90THAVE-SB-26(0.5-10.0)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\HPCHEM1\BNA F\DATA\BF051316\
Data File : BF086985.D
Acq On : 13 May 2016 22:21
Operator : UM/SJ
Sample : H2992-04
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 90THAVE-SB-26(0.5-10.0)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

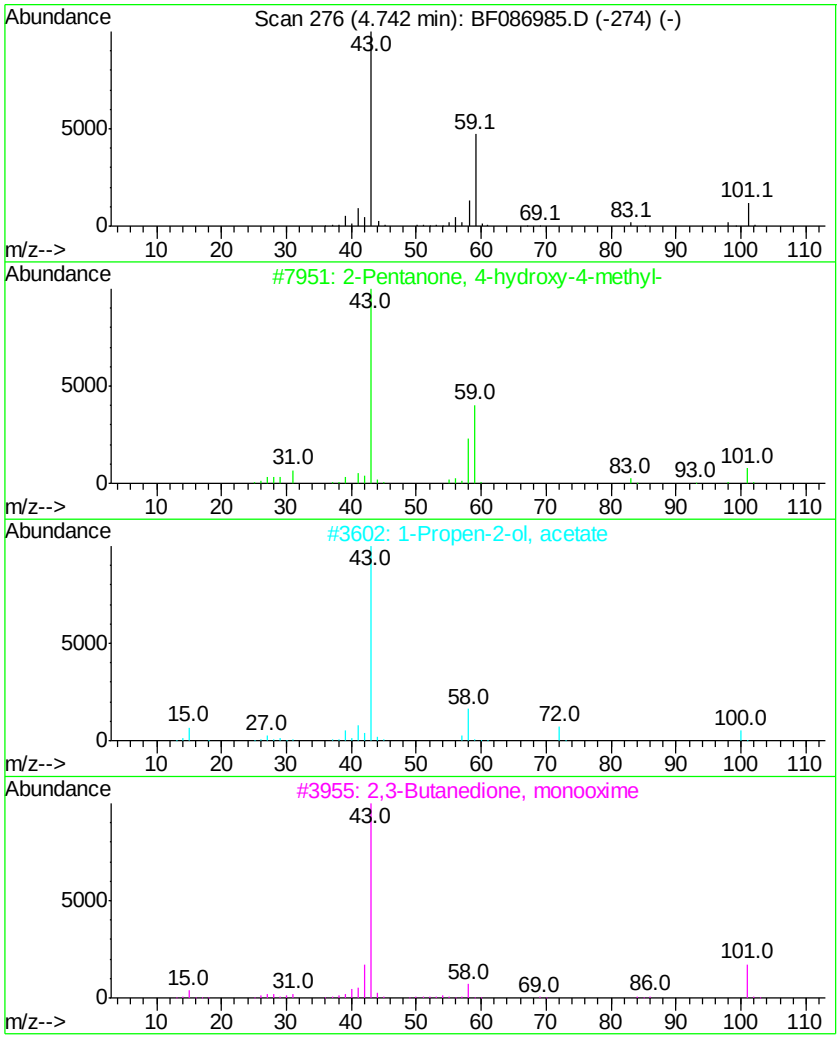
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

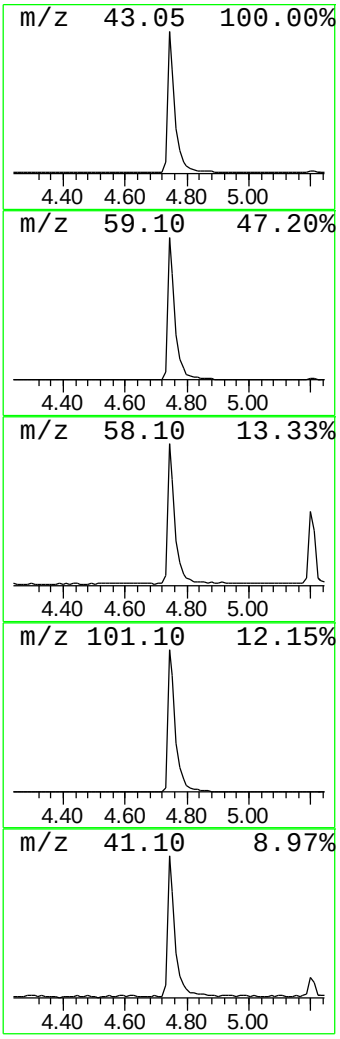
**********

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

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.74 | 26.75 ng | 1196020 | 1,4-Dichlorobenzene-d4 | 6.62 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 50 |
| 2 | 1-Propen-2-ol, acetate | 100 | C5H8O2 | 000108-22-5 | 10 |
| 3 | 2,3-Butanedione, monooxime | 101 | C4H7NO2 | 000057-71-6 | 9 |
| 4 | Diacetamide | 101 | C4H7NO2 | 000625-77-4 | 9 |
| 5 | 2-Propanone, 1-(1-methylethoxy)- | 116 | C6H12O2 | 042781-12-4 | 9 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF051316\
Data File : BF086985.D
Acq On : 13 May 2016 22:21
Operator : UM/SJ
Sample : H2992-04
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
90THAVE-SB-26(0.5-10.0)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

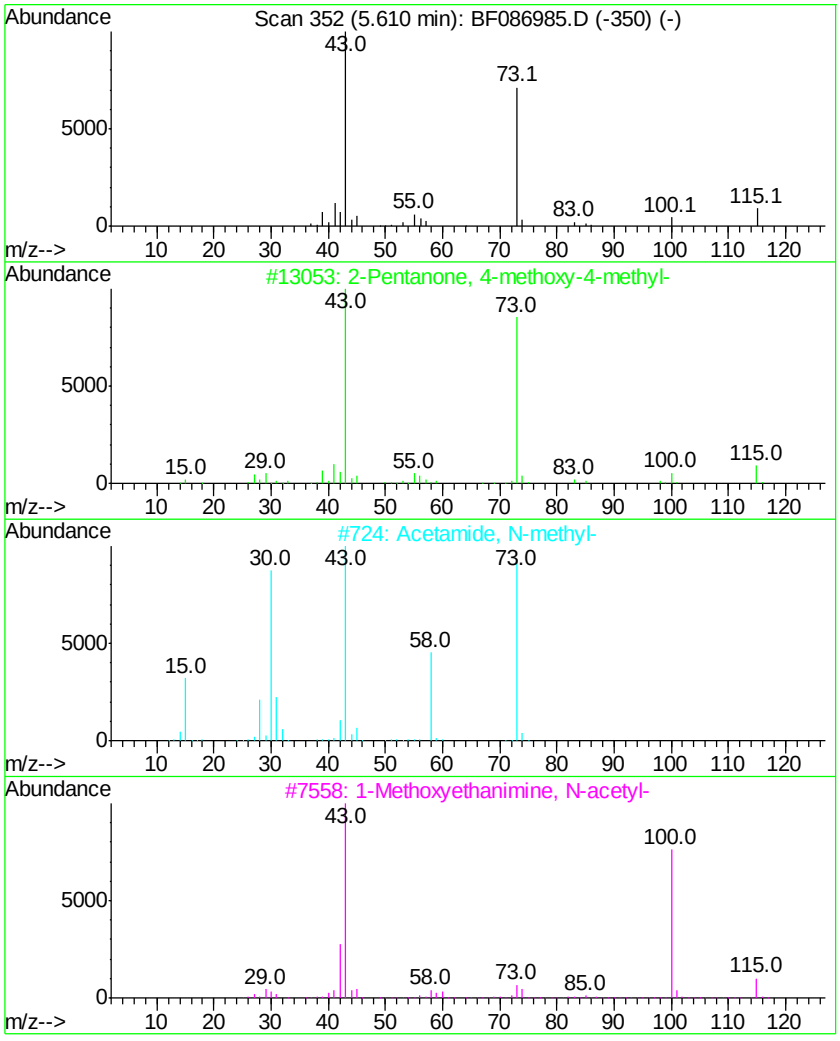
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

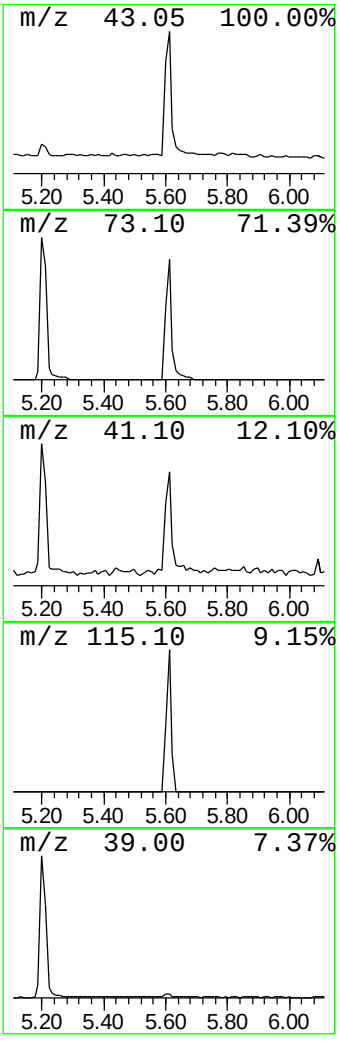
**********

Peak Number 3 2-Pentanone, 4-methoxy-4-me... Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.61 | 2.25 ng | 100737 | 1,4-Dichlorobenzene-d4 | 6.62 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pentanone, 4-methoxy-4-methyl- | 130 | C7H14O2 | 000107-70-0 | 83 |
| 2 | Acetamide, N-methyl- | 73 | C3H7NO | 000079-16-3 | 49 |
| 3 | 1-Methoxyethanimine, N-acetyl- | 115 | C5H9NO2 | 099028-43-0 | 33 |
| 4 | Pent-3-enylamine | 85 | C5H11N | 087156-70-5 | 9 |
| 5 | Guanidine, methyl- | 73 | C2H7N3 | 000471-29-4 | 9 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF051316\
Data File : BF086985.D
Acq On : 13 May 2016 22:21
Operator : UM/SJ
Sample : H2992-04
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 90THAVE-SB-26(0.5-10.0)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

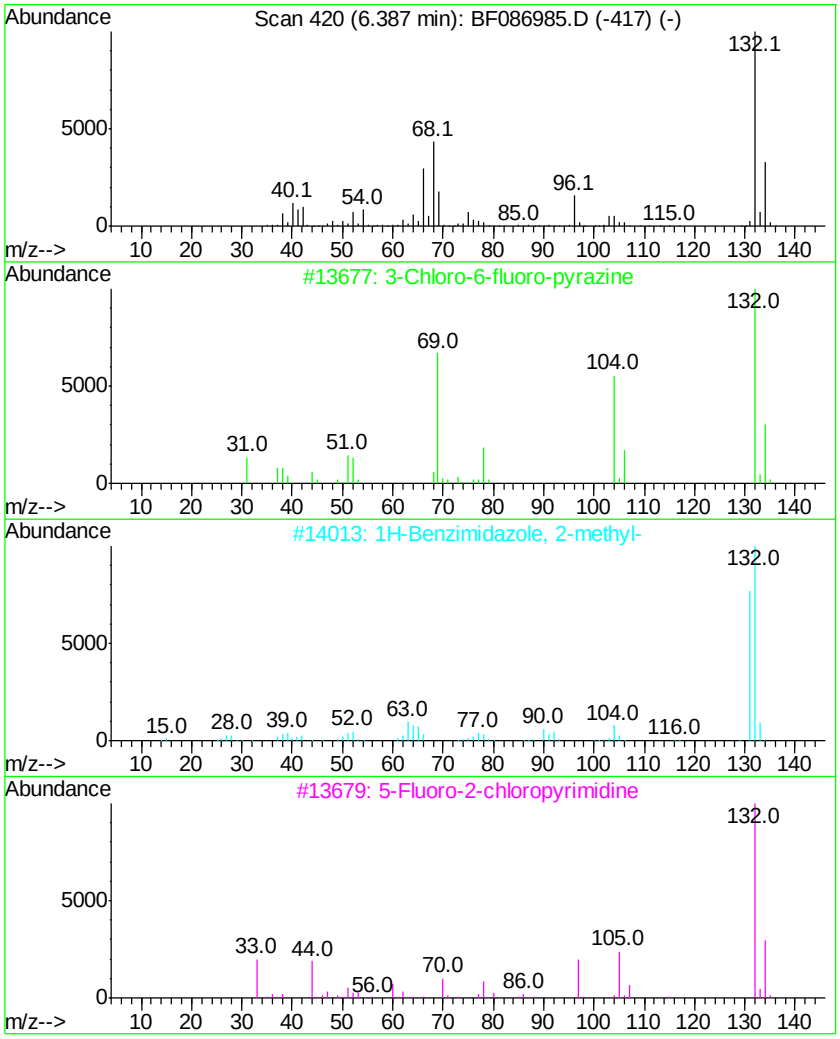
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

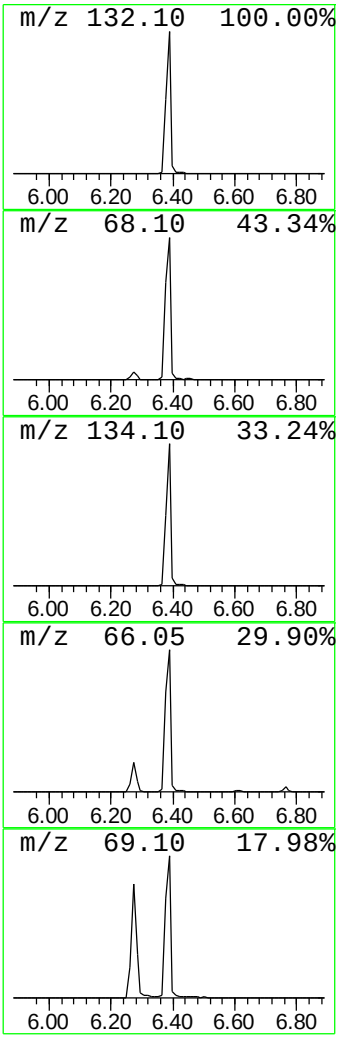
**********

Peak Number 4 unknown6.39 Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.39 | 101.03 ng | 4516610 | 1,4-Dichlorobenzene-d4 | 6.62 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Chloro-6-fluoro-pyrazine | 132 | C4H2ClFN2 | 1000146-10-7 | 27 |
| 2 | 1H-Benzimidazole, 2-methyl- | 132 | C8H8N2 | 000615-15-6 | 22 |
| 3 | 5-Fluoro-2-chloropyrimidine | 132 | C4H2ClFN2 | 062802-42-0 | 16 |
| 4 | (5-METHYL-2-PYRIDYL)ACETONITRILE | 132 | C8H8N2 | 1000241-93-9 | 10 |
| 5 | Benzene, 1,2,4-trifluoro- | 132 | C6H3F3 | 000367-23-7 | 9 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF051316\
Data File : BF086985.D
Acq On : 13 May 2016 22:21
Operator : UM/SJ
Sample : H2992-04
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 90THAVE-SB-26(0.5-10.0)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

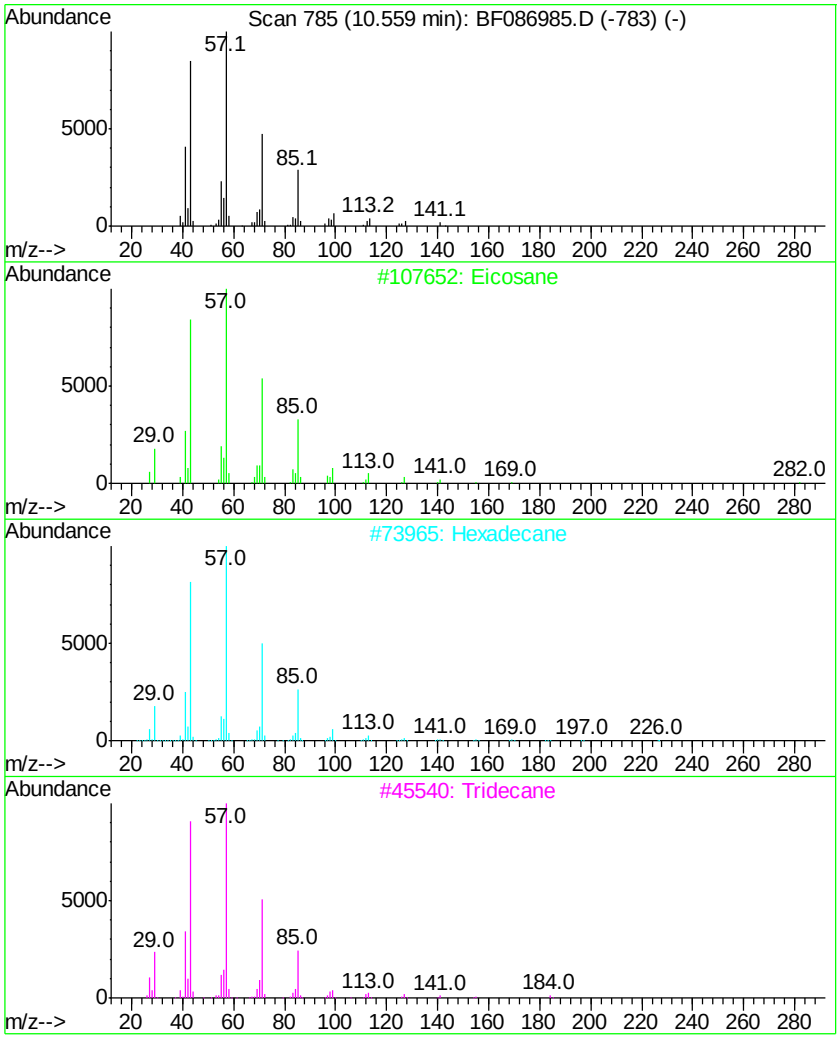
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

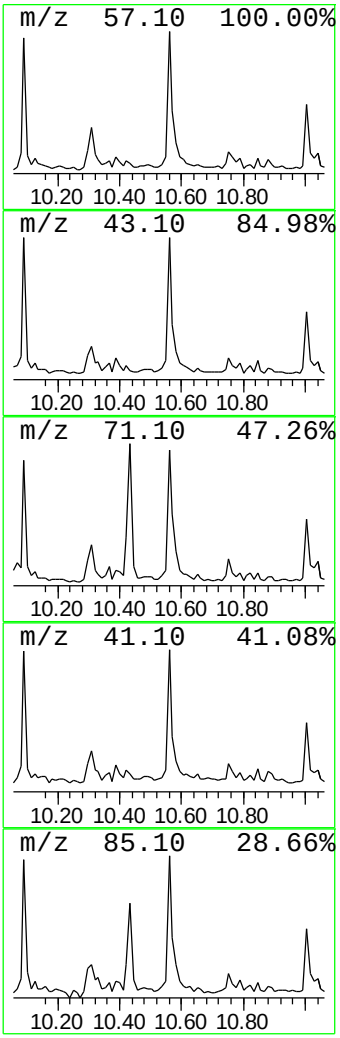
**********

Peak Number 6 Eicosane Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.56 | 2.81 ng | 184870 | Phenanthrene-d10 | 11.12 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Eicosane | 282 | C20H42 | 000112-95-8 | 91 |
| 2 | Hexadecane | 226 | C16H34 | 000544-76-3 | 91 |
| 3 | Tridecane | 184 | C13H28 | 000629-50-5 | 90 |
| 4 | Octadecane | 254 | C18H38 | 000593-45-3 | 86 |
| 5 | Pentadecane | 212 | C15H32 | 000629-62-9 | 86 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF051316\
Data File : BF086985.D
Acq On : 13 May 2016 22:21
Operator : UM/SJ
Sample : H2992-04
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 90THAVE-SB-26(0.5-10.0)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

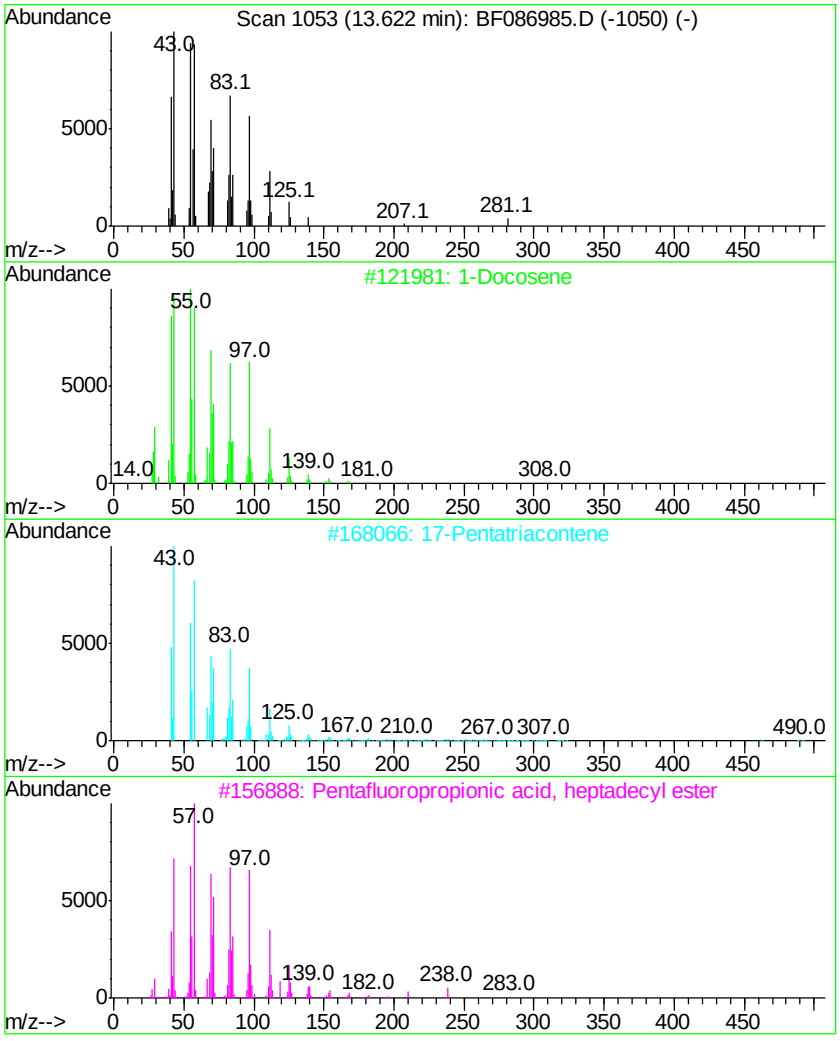
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

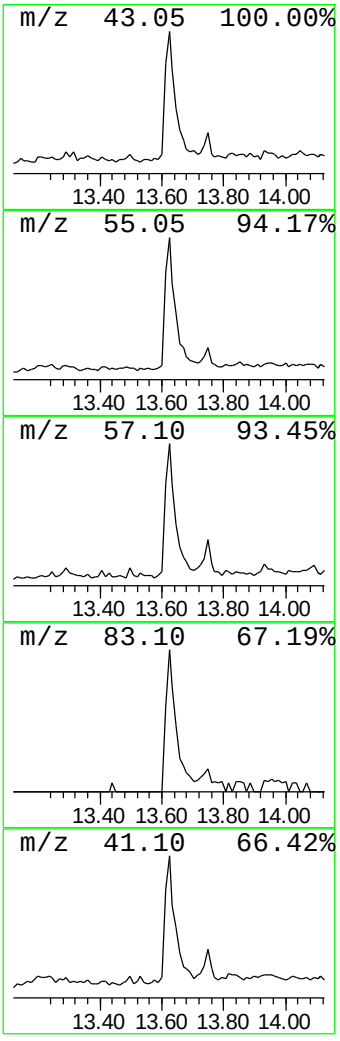
**********

Peak Number 7 1-Docosene Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.62 | 2.44 ng | 163199 | Chrysene-d12 | 13.75 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Docosene | 308 | C22H44 | 001599-67-3 | 94 |
| 2 | 17-Pentatriacontene | 491 | C35H70 | 006971-40-0 | 90 |
| 3 | Pentafluoropropionic acid, hepta... | 402 | C20H35F5O2 | 1000283-04-2 | 87 |
| 4 | 5-Eicosene, (E)- | 280 | C20H40 | 074685-30-6 | 86 |
| 5 | 1-Nonadecene | 266 | C19H38 | 018435-45-5 | 83 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF051316\
Data File : BF086985.D
Acq On : 13 May 2016 22:21
Operator : UM/SJ
Sample : H2992-04
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 90THAVE-SB-26(0.5-10.0)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050916.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 |
| 2-Pentanone, 4-hy... | 4.74 | 26.8 | ng | 1196020 | 1 | 6.62 | 894106 | 20.0 |
| 2-Pentanone, 4-me... | 5.61 | 2.3 | ng | 100737 | 1 | 6.62 | 894106 | 20.0 |
| unknown6.39 | 6.39 | 101.0 | ng | 4516610 | 1 | 6.62 | 894106 | 20.0 |
| Eicosane | 10.56 | 2.8 | ng | 184870 | 4 | 11.12 | 1317660 | 20.0 |
| 1-Docosene | 13.62 | 2.4 | ng | 163199 | 5 | 13.75 | 1340430 | 20.0 |