LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF020616\
Data File : BF084907.D
Acq On : 6 Feb 2016 13:08
Operator : SJ/IZ
Sample : H1310-01
Misc :
ALS Vial : 49 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SUP-B017(10-12)

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-BF020116.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 | 2.361 | 22 | 24 | 28 | rVB | 149648 | 215444 | 4.17% | 0.460% |
| 2 | 4.121 | 175 | 178 | 181 | rBV | 2350977 | 3646773 | 70.66% | 7.783% |
| 3 | 4.830 | 237 | 240 | 251 | rVB | 756458 | 1459222 | 28.27% | 3.114% |
| 4 | 5.196 | 270 | 272 | 276 | rBV | 32414 | 65567 | 1.27% | 0.140% |
| 5 | 5.264 | 276 | 278 | 281 | rBV | 4284909 | 4353738 | 84.36% | 9.292% |
| 6 | 6.179 | 356 | 358 | 360 | rBV | 61578 | 51860 | 1.00% | 0.111% |
| 7 | 6.316 | 367 | 370 | 378 | rBV | 3837615 | 3977601 | 77.07% | 8.489% |
| 8 | 6.430 | 378 | 380 | 383 | rBV | 4183582 | 4460792 | 86.43% | 9.520% |
| 9 | 6.487 | 383 | 385 | 387 | rBV | 157876 | 139913 | 2.71% | 0.299% |
| 10 | 6.659 | 398 | 400 | 402 | rBV | 1279402 | 1030786 | 19.97% | 2.200% |
| 11 | 6.716 | 402 | 405 | 411 | rVB | 81326 | 78088 | 1.51% | 0.167% |
| 12 | 6.819 | 411 | 414 | 416 | rBV | 4399357 | 3956125 | 76.65% | 8.443% |
| 13 | 7.230 | 447 | 450 | 453 | rVB | 2755007 | 2979000 | 57.72% | 6.358% |
| 14 | 7.687 | 488 | 490 | 496 | rBV2 | 77004 | 129700 | 2.51% | 0.277% |
| 15 | 7.790 | 496 | 499 | 501 | rVB3 | 47118 | 53455 | 1.04% | 0.114% |
| 16 | 7.950 | 510 | 513 | 516 | rBV | 1229304 | 1663891 | 32.24% | 3.551% |
| 17 | 8.659 | 573 | 575 | 577 | rVB | 199580 | 160976 | 3.12% | 0.344% |
| 18 | 8.750 | 581 | 583 | 586 | rVB | 79643 | 112678 | 2.18% | 0.240% |
| 19 | 9.025 | 604 | 607 | 610 | rBV | 4723874 | 5161093 | 100.00% | 11.015% |
| 20 | 9.116 | 612 | 615 | 618 | rVB2 | 48917 | 55939 | 1.08% | 0.119% |
| 21 | 9.356 | 633 | 636 | 637 | rBV | 66748 | 63094 | 1.22% | 0.135% |
| 22 | 9.699 | 663 | 666 | 667 | rBV | 1275051 | 1414952 | 27.42% | 3.020% |
| 23 | 9.722 | 667 | 668 | 671 | rVB | 70276 | 66640 | 1.29% | 0.142% |
| 24 | 10.145 | 699 | 705 | 706 | rBV2 | 53384 | 71239 | 1.38% | 0.152% |
| 25 | 10.488 | 732 | 735 | 737 | rBV | 3045157 | 3474812 | 67.33% | 7.416% |
| 26 | 10.613 | 743 | 746 | 750 | rVB | 87425 | 109638 | 2.12% | 0.234% |
| 27 | 11.059 | 783 | 785 | 786 | rBV | 74022 | 64521 | 1.25% | 0.138% |
| 28 | 11.173 | 792 | 795 | 797 | rBV | 1575371 | 1382251 | 26.78% | 2.950% |
| 29 | 11.482 | 820 | 822 | 825 | rBV | 52618 | 53165 | 1.03% | 0.113% |
| 30 | 11.894 | 856 | 858 | 862 | rBV2 | 60457 | 74673 | 1.45% | 0.159% |
| 31 | 12.602 | 917 | 920 | 922 | rVB | 135475 | 173839 | 3.37% | 0.371% |
| 32 | 12.762 | 931 | 934 | 937 | rBV | 4407655 | 4283768 | 83.00% | 9.142% |
| 33 | 13.299 | 979 | 981 | 983 | rBV | 134689 | 111223 | 2.16% | 0.237% |
| 34 | 13.802 | 1023 | 1025 | 1027 | rBV | 1018033 | 924667 | 17.92% | 1.973% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF020616\
Data File : BF084907.D
Acq On : 6 Feb 2016 13:08
Operator : SJ/IZ
Sample : H1310-01
Misc :
ALS Vial : 49 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SUP-B017(10-12)

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-BF020116.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 15.174 | 1142 | 1145 | 1147 | rBV | 683381 | 835620 | 16.19% | 1.783% |

Sum of corrected areas: 46856743

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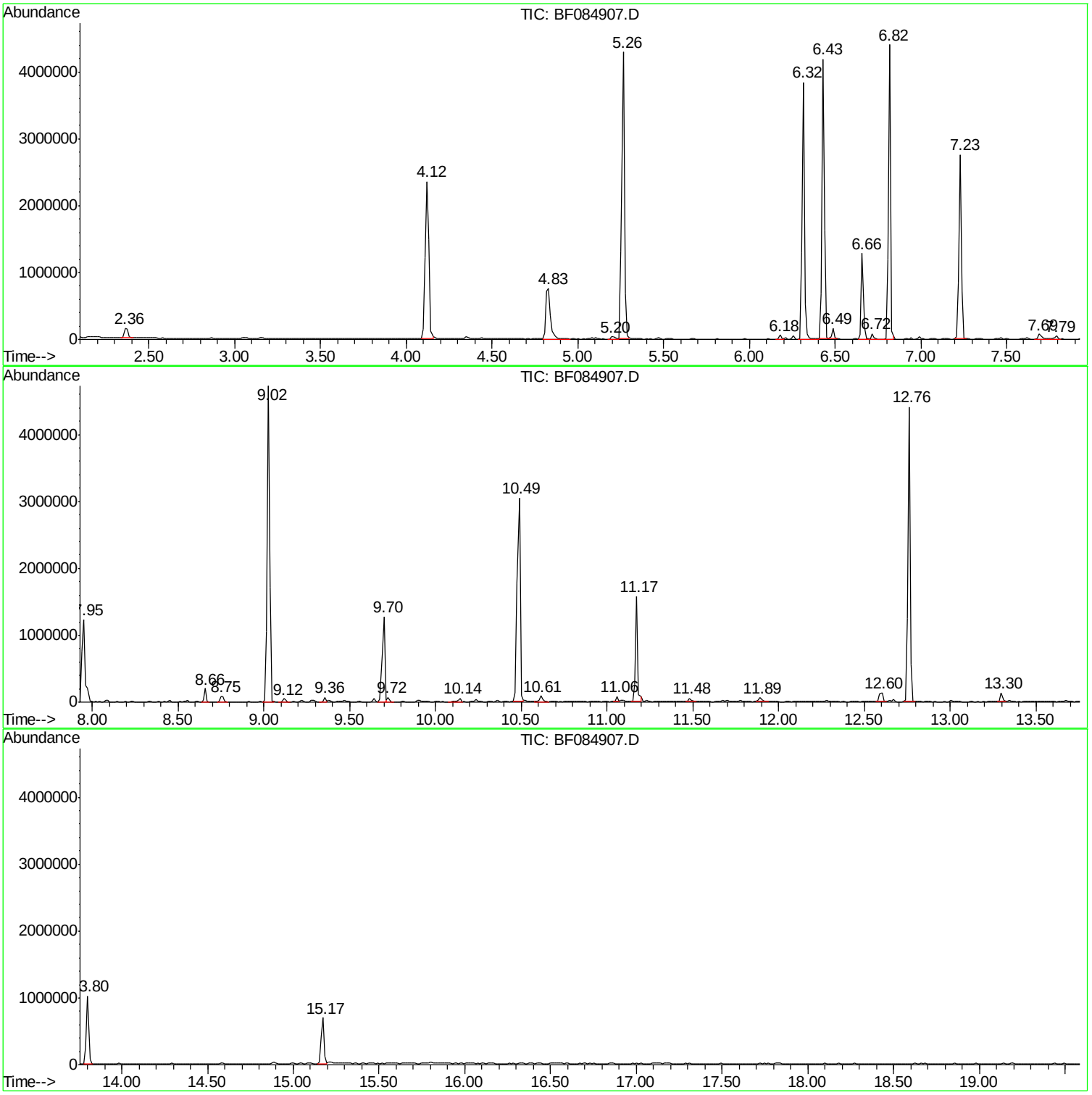
Sample : H1310-01
Misc :
ALS Vial : 49 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
SUP-B017(10-12)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF020116.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\BF020616\
Data File : BF084907.D
Acq On : 6 Feb 2016 13:08
Operator : SJ/IZ
Sample : H1310-01
Misc :
ALS Vial : 49 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SUP-B017(10-12)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF020116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

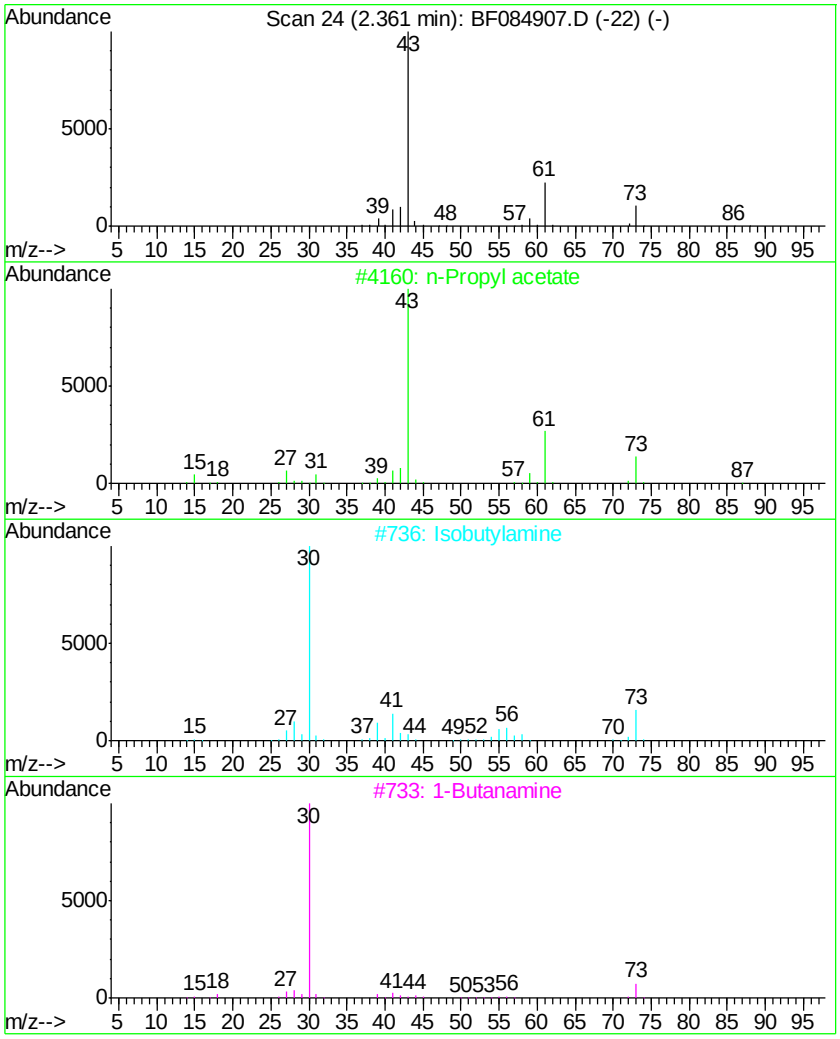
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

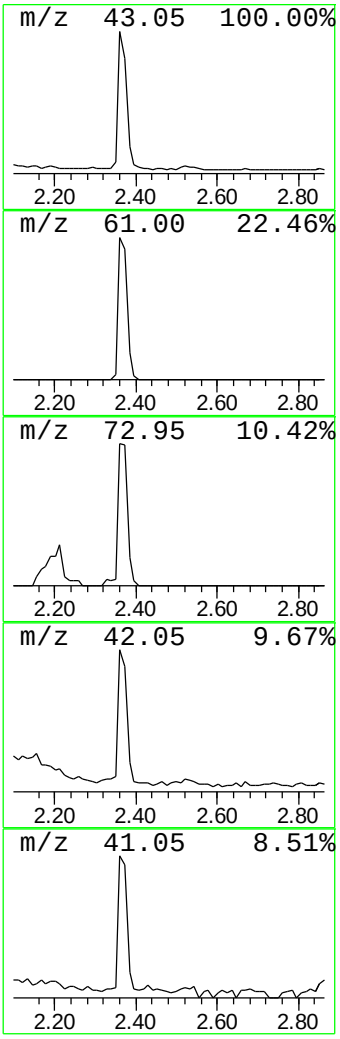
**********

Peak Number 1 n-Propyl acetate Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 2.36 | 4.18 ng | 215444 | 1,4-Dichlorobenzene-d4 | 6.66 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | n-Propyl acetate | 102 | C5H10O2 | 000109-60-4 | 83 |
| 2 | Isobutylamine | 73 | C4H11N | 000078-81-9 | 7 |
| 3 | 1-Butanamine | 73 | C4H11N | 000109-73-9 | 5 |
| 4 | Hydrogen azide | 43 | HN3 | 007782-79-8 | 4 |
| 5 | 1,4-Butanediol, diacetate | 174 | C8H14O4 | 000628-67-1 | 4 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF020616\
Data File : BF084907.D
Acq On : 6 Feb 2016 13:08
Operator : SJ/IZ
Sample : H1310-01
Misc :
ALS Vial : 49 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SUP-B017(10-12)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF020116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

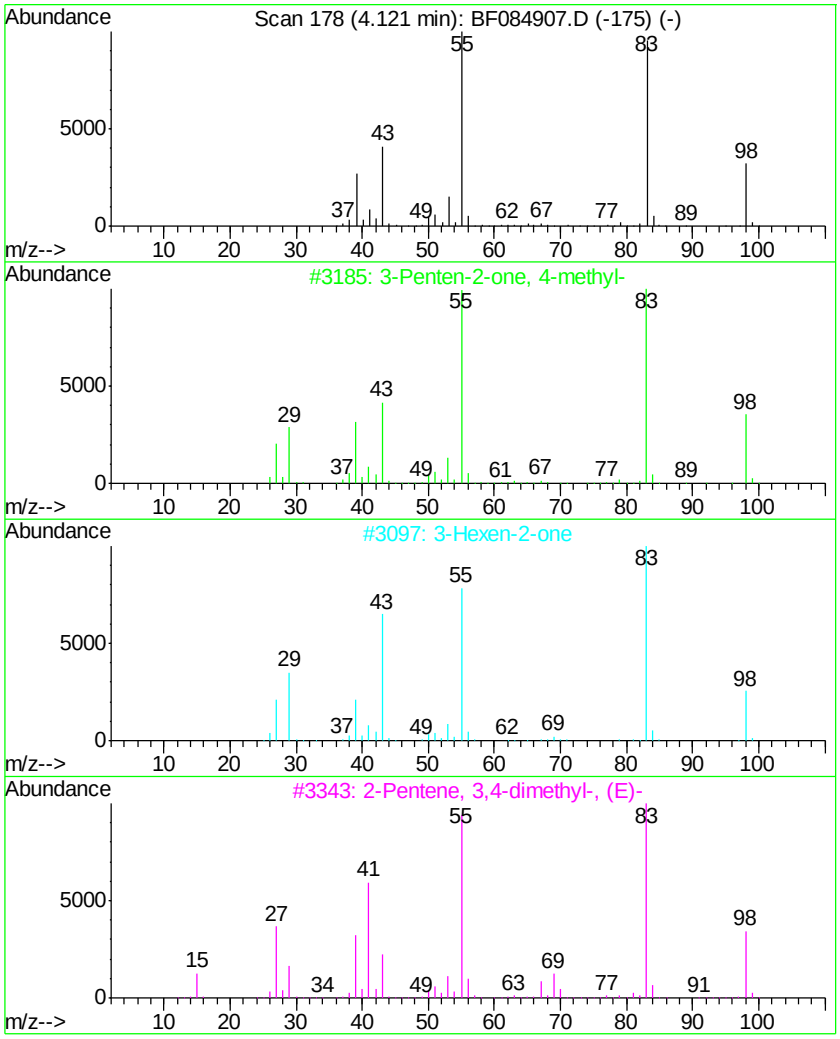
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

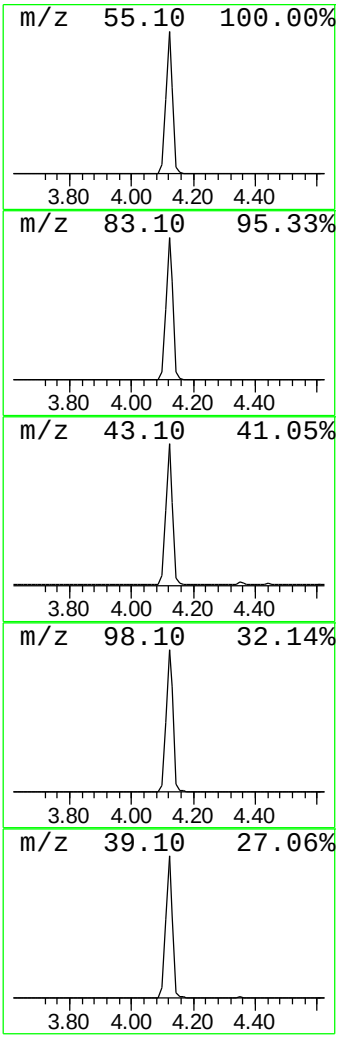
**********

Peak Number 2 3-Penten-2-one, 4-methyl- Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.12 | 70.76 ng | 3646770 | 1,4-Dichlorobenzene-d4 | 6.66 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Penten-2-one, 4-methyl- | 98 | C6H10O | 000141-79-7 | 91 |
| 2 | 3-Hexen-2-one | 98 | C6H10O | 000763-93-9 | 91 |
| 3 | 2-Pentene, 3,4-dimethyl-, (E)- | 98 | C7H14 | 004914-92-5 | 90 |
| 4 | 2-Pentene, 3,4-dimethyl-, (Z)- | 98 | C7H14 | 004914-91-4 | 86 |
| 5 | 2-Pentene, 4,4-dimethyl-, (Z)- | 98 | C7H14 | 000762-63-0 | 86 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF020616\
Data File : BF084907.D
Acq On : 6 Feb 2016 13:08
Operator : SJ/IZ
Sample : H1310-01
Misc :
ALS Vial : 49 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SUP-B017(10-12)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF020116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

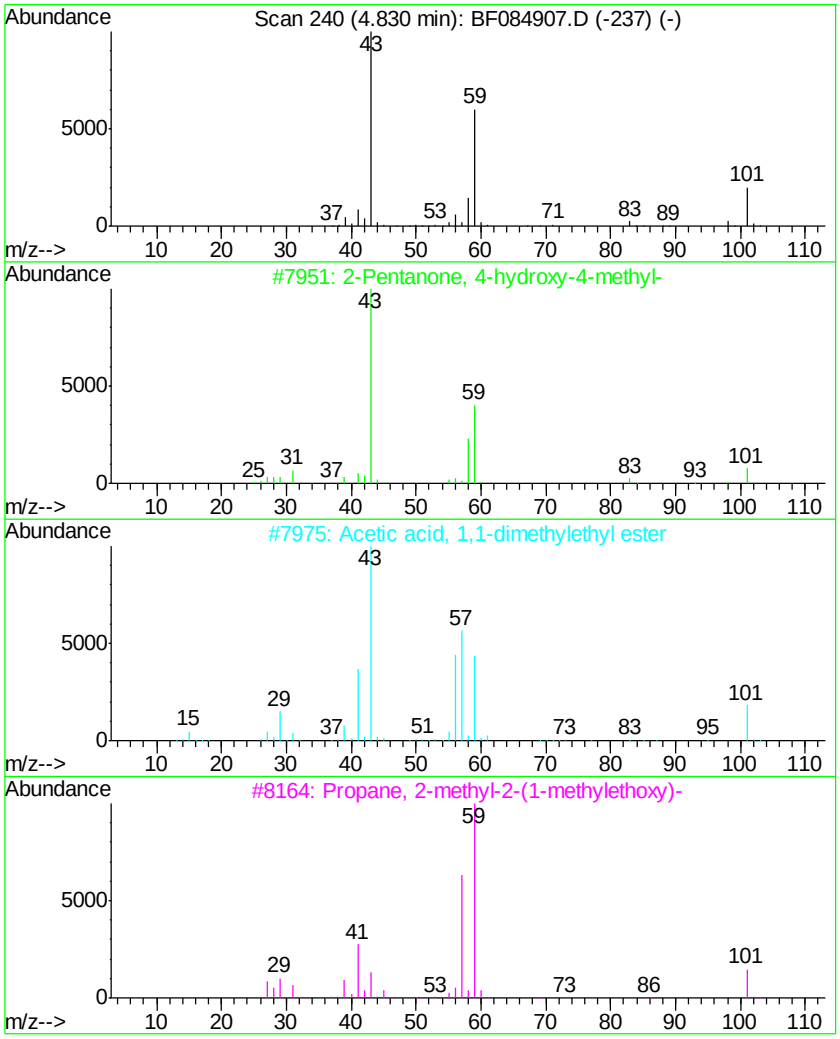
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

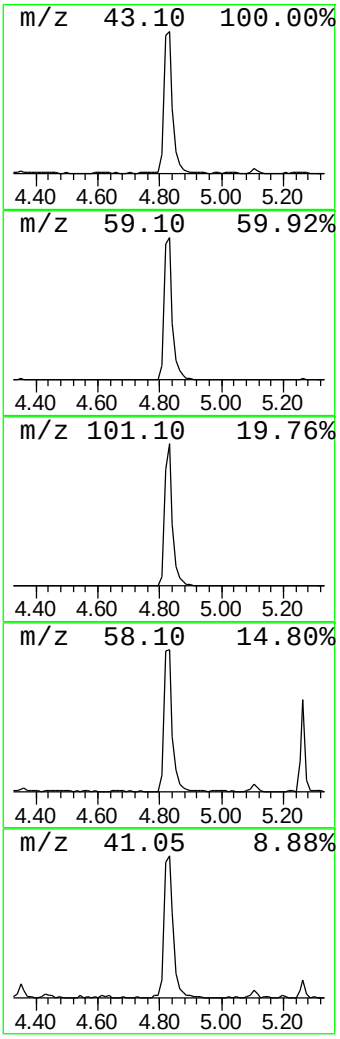
**********

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

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.83 | 28.31 ng | 1459220 | 1,4-Dichlorobenzene-d4 | 6.66 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 56 |
| 2 | Acetic acid, 1,1-dimethylethyl e... | 116 | C6H12O2 | 000540-88-5 | 39 |
| 3 | Propane, 2-methyl-2-(1-methyleth... | 116 | C7H16O | 017348-59-3 | 28 |
| 4 | Acetic acid, cyano-, 1,1-dimethy... | 141 | C7H11NO2 | 001116-98-9 | 17 |
| 5 | 2,3-Butanedione, monooxime | 101 | C4H7NO2 | 000057-71-6 | 9 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF020616\
Data File : BF084907.D
Acq On : 6 Feb 2016 13:08
Operator : SJ/IZ
Sample : H1310-01
Misc :
ALS Vial : 49 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SUP-B017(10-12)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF020116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

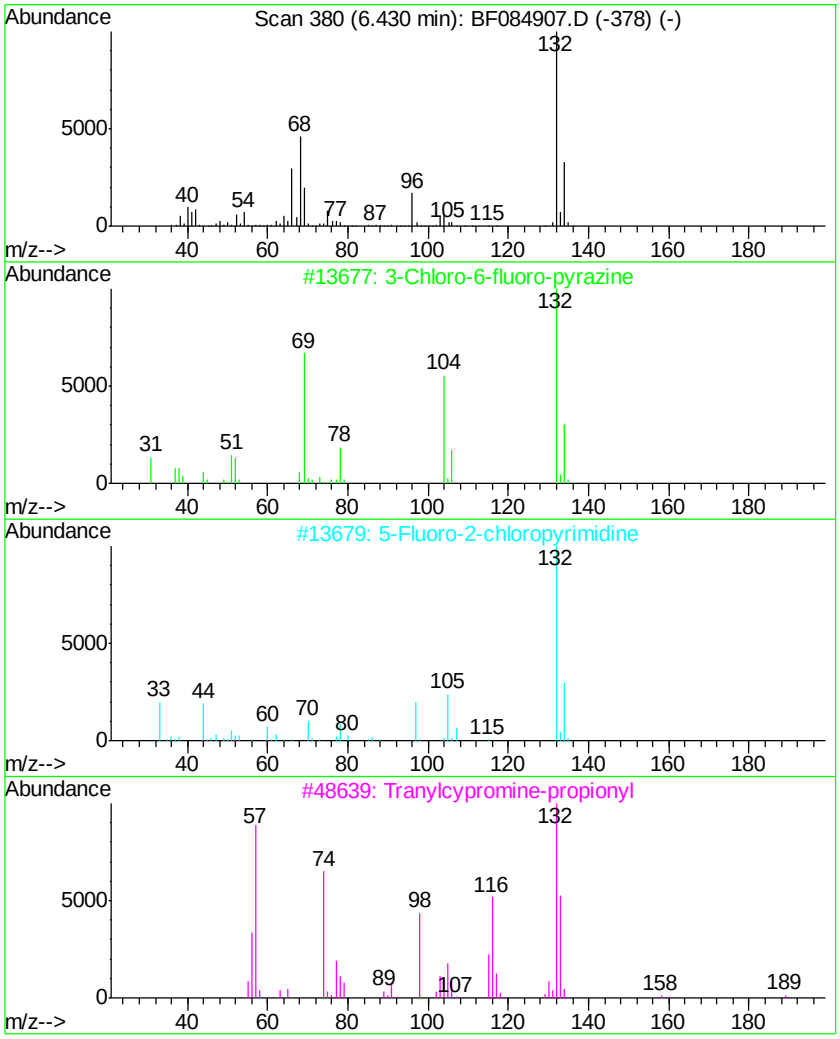
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

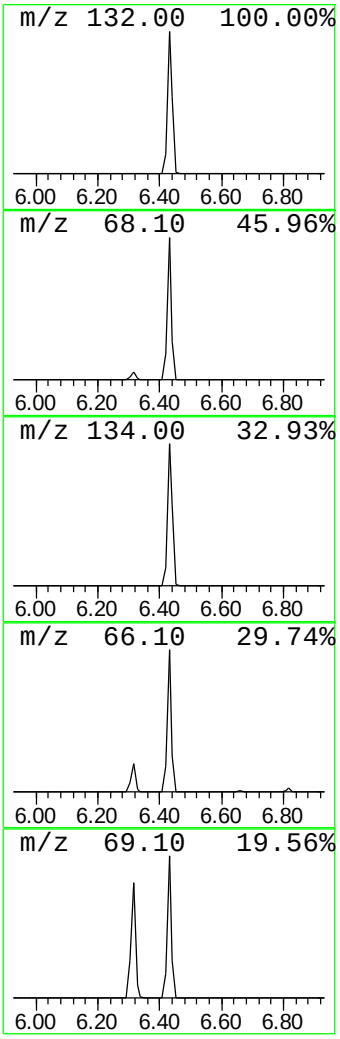
**********

Peak Number 4 unknown6.43 Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.43 | 86.55 ng | 4460790 | 1,4-Dichlorobenzene-d4 | 6.66 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Chloro-6-fluoro-pyrazine | 132 | C4H2ClFN2 | 1000146-10-7 | 27 |
| 2 | 5-Fluoro-2-chloropyrimidine | 132 | C4H2ClFN2 | 062802-42-0 | 12 |
| 3 | Tranylcypromine-propionyl | 189 | C12H15NO | 1000123-86-3 | 10 |
| 4 | Bicyclo[4.2.0]octa-1,3,5-triene,... | 132 | C10H12 | 028749-81-7 | 9 |
| 5 | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO | 031357-76-3 | 9 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF020616\
Data File : BF084907.D
Acq On : 6 Feb 2016 13:08
Operator : SJ/IZ
Sample : H1310-01
Misc :
ALS Vial : 49 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SUP-B017(10-12)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF020116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

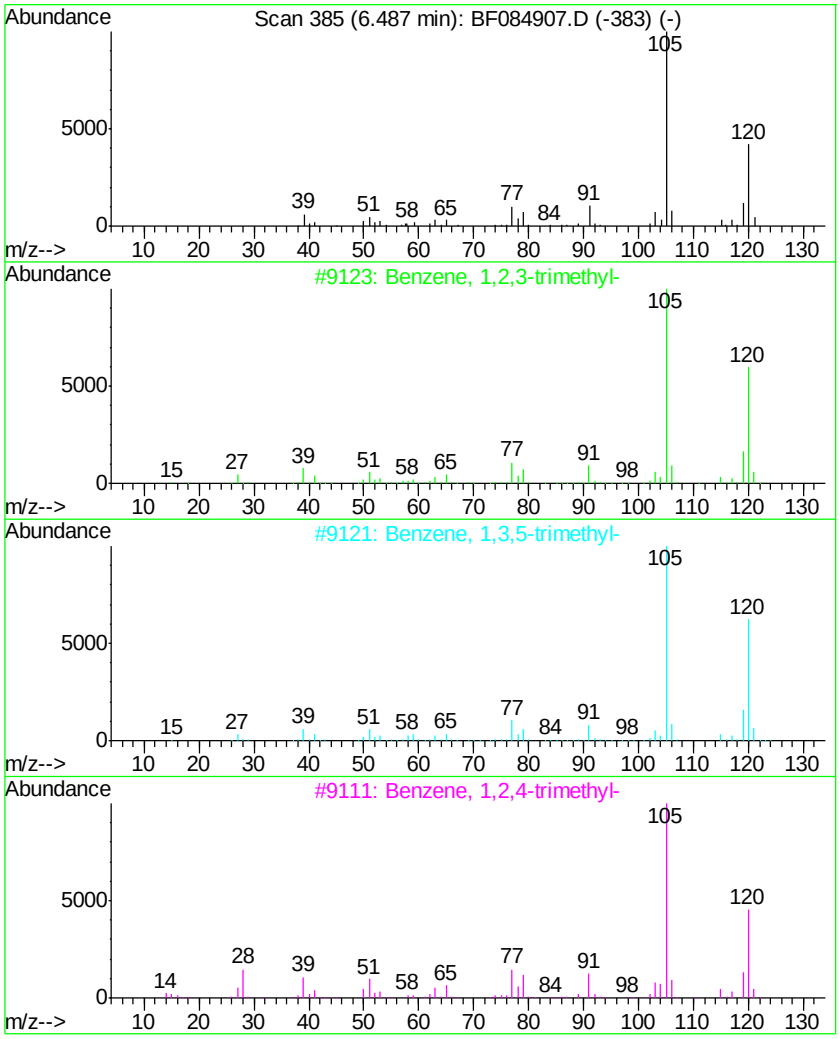
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

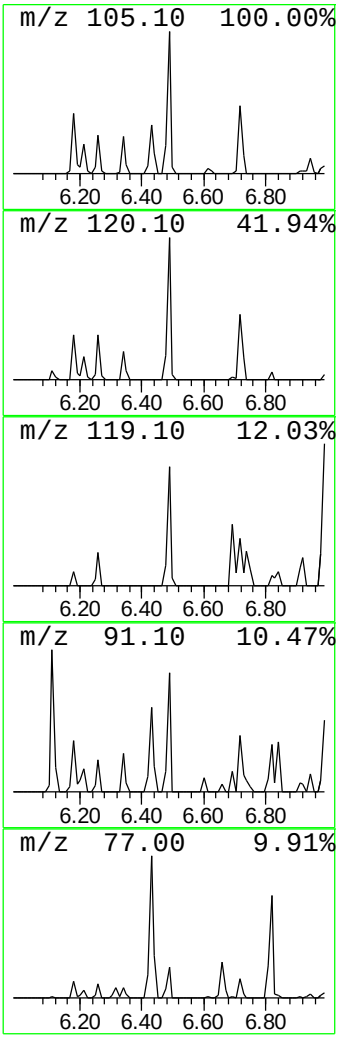
**********

Peak Number 5 Benzene, 1,2,3-trimethyl- Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.49 | 2.71 ng | 139913 | 1,4-Dichlorobenzene-d4 | 6.66 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1,2,3-trimethyl- | 120 | C9H12 | 000526-73-8 | 97 |
| 2 | Benzene, 1,3,5-trimethyl- | 120 | C9H12 | 000108-67-8 | 93 |
| 3 | Benzene, 1,2,4-trimethyl- | 120 | C9H12 | 000095-63-6 | 91 |
| 4 | Benzene, 1-ethyl-3-methyl- | 120 | C9H12 | 000620-14-4 | 90 |
| 5 | Benzene, 1-ethyl-4-methyl- | 120 | C9H12 | 000622-96-8 | 90 |



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Misc :
ALS Vial : 49 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SUP-B017(10-12)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF020116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

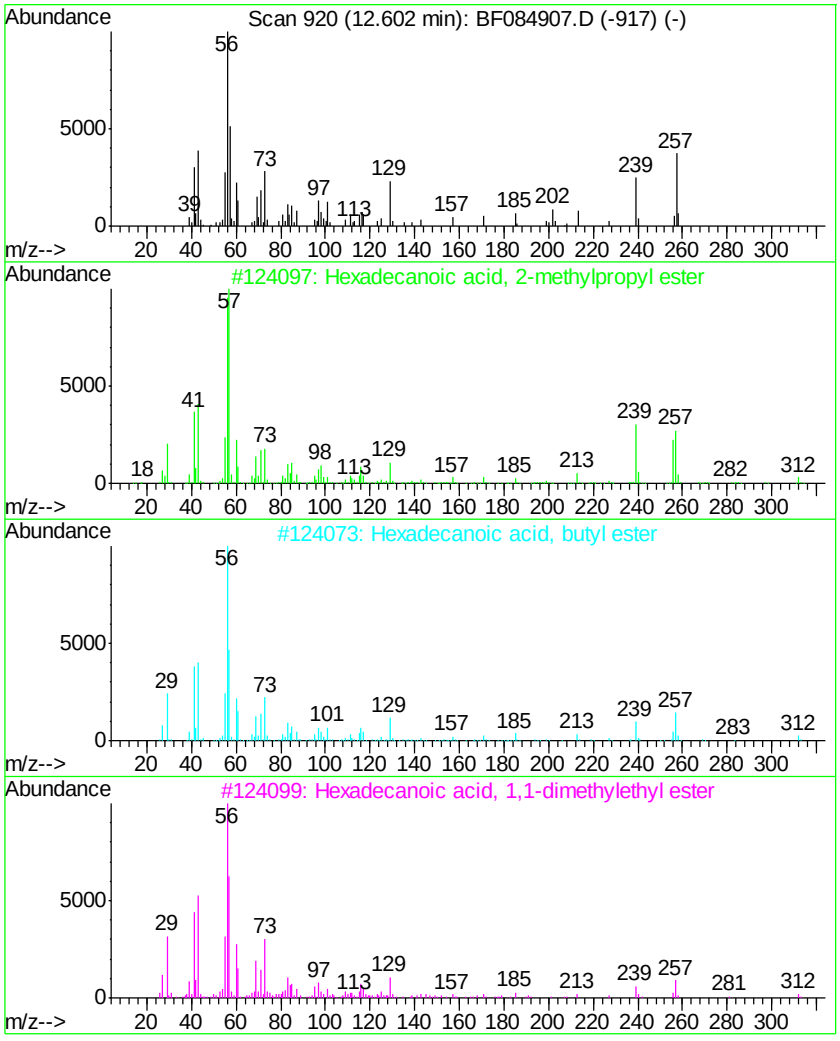
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

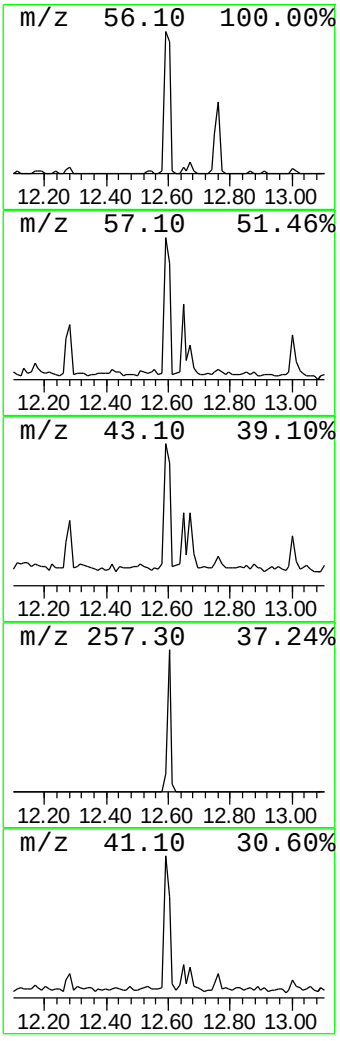
**********

Peak Number 7 Hexadecanoic acid, 2-methyl... Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.60 | 3.76 ng | 173839 | Chrysene-d12 | 13.80 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexadecanoic acid, 2-methylpropy... | 312 | C20H40O2 | 000110-34-9 | 64 |
| 2 | Hexadecanoic acid, butyl ester | 312 | C20H40O2 | 000111-06-8 | 64 |
| 3 | Hexadecanoic acid, 1,1-dimethyle... | 312 | C20H40O2 | 031158-91-5 | 50 |
| 4 | Nipecotic acid | 129 | C6H11NO2 | 000498-95-3 | 47 |
| 5 | Cyclohexanol, 4-amino-, trans- | 115 | C6H13NO | 027489-62-9 | 30 |



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Sample : H1310-01
Misc :
ALS Vial : 49 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SUP-B017(10-12)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF020116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

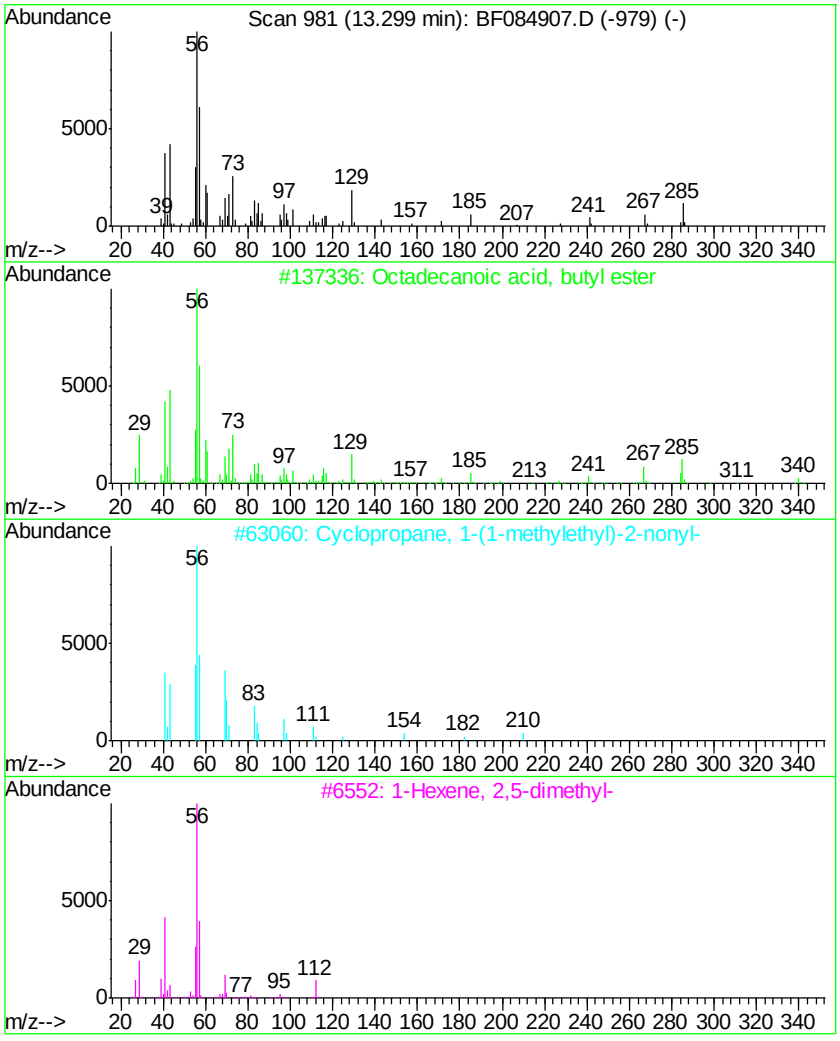
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

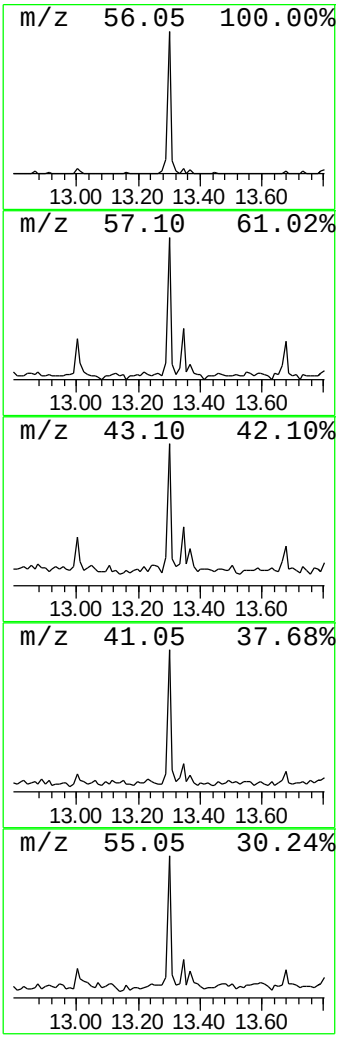
**********

Peak Number 8 Octadecanoic acid, butyl ester Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.30 | 2.41 ng | 111223 | Chrysene-d12 | 13.80 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octadecanoic acid, butyl ester | 340 | C22H44O2 | 000123-95-5 | 91 |
| 2 | Cyclopropane, 1-(1-methylethyl)-... | 210 | C15H30 | 041977-39-3 | 38 |
| 3 | 1-Hexene, 2,5-dimethyl- | 112 | C8H16 | 006975-92-4 | 38 |
| 4 | Cyclobutane, 1-hexyl-2,3-dimethyl- | 168 | C12H24 | 055170-84-8 | 38 |
| 5 | Pentadecane, 8-methylene- | 224 | C16H32 | 055668-09-2 | 37 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF020616\
Data File : BF084907.D
Acq On : 6 Feb 2016 13:08
Operator : SJ/IZ
Sample : H1310-01
Misc :
ALS Vial : 49 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SUP-B017(10-12)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF020116.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 |
| n-Propyl acetate | 2.36 | 4.2 | ng | 215444 | 1 | 6.66 | 1030790 | 20.0 |
| 3-Penten-2-one, 4... | 4.12 | 70.8 | ng | 3646770 | 1 | 6.66 | 1030790 | 20.0 |
| 2-Pentanone, 4-hy... | 4.83 | 28.3 | ng | 1459220 | 1 | 6.66 | 1030790 | 20.0 |
| unknown6.43 | 6.43 | 86.5 | ng | 4460790 | 1 | 6.66 | 1030790 | 20.0 |
| Benzene, 1,2,3-tr... | 6.49 | 2.7 | ng | 139913 | 1 | 6.66 | 1030790 | 20.0 |
| Hexadecanoic acid... | 12.60 | 3.8 | ng | 173839 | 5 | 13.80 | 924667 | 20.0 |
| Octadecanoic acid... | 13.30 | 2.4 | ng | 111223 | 5 | 13.80 | 924667 | 20.0 |