LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP011520\
Data File : BP001616.D
Acq On : 15 Jan 2020 19:06
Operator : JU
Sample : L1125-03
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_P
**ClientSampleId :** FESB-34-(4.5-5)

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_P\METHODS\8270-BP010820.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 | 2.869 | 10 | 14 | 24 | rVV | 29188 | 54203 | 3.96% | 0.538% |
| 2 | 2.952 | 24 | 28 | 37 | rVB | 183526 | 219722 | 16.05% | 2.179% |
| 3 | 4.799 | 337 | 342 | 353 | rVB | 113785 | 156053 | 11.40% | 1.548% |
| 4 | 5.258 | 415 | 420 | 429 | rBV | 448924 | 673800 | 49.22% | 6.683% |
| 5 | 6.828 | 680 | 687 | 698 | rBV | 496827 | 804491 | 58.77% | 7.980% |
| 6 | 7.175 | 739 | 746 | 759 | rBV | 487031 | 755087 | 55.16% | 7.490% |
| 7 | 7.634 | 817 | 824 | 832 | rBV | 148860 | 232800 | 17.01% | 2.309% |
| 8 | 7.952 | 871 | 878 | 885 | rBV | 373492 | 583254 | 42.61% | 5.785% |
| 9 | 8.781 | 1011 | 1019 | 1030 | rBV | 283373 | 497850 | 36.37% | 4.938% |
| 10 | 10.410 | 1286 | 1296 | 1307 | rBV | 167551 | 292121 | 21.34% | 2.898% |
| 11 | 12.898 | 1712 | 1719 | 1731 | rBV | 649355 | 969417 | 70.81% | 9.616% |
| 12 | 13.745 | 1858 | 1863 | 1875 | rBV | 26904 | 47130 | 3.44% | 0.467% |
| 13 | 14.281 | 1947 | 1954 | 1969 | rBV | 258558 | 389955 | 28.49% | 3.868% |
| 14 | 15.781 | 2202 | 2209 | 2222 | rBV | 528852 | 780636 | 57.02% | 7.743% |
| 15 | 17.045 | 2418 | 2424 | 2429 | rBV | 307695 | 459030 | 33.53% | 4.553% |
| 16 | 17.975 | 2577 | 2582 | 2590 | rBV3 | 25113 | 40643 | 2.97% | 0.403% |
| 17 | 19.063 | 2763 | 2767 | 2775 | rBV | 33499 | 51136 | 3.74% | 0.507% |
| 18 | 19.416 | 2820 | 2827 | 2836 | rBV | 31693 | 54106 | 3.95% | 0.537% |
| 19 | 19.627 | 2858 | 2863 | 2878 | rBV | 1164915 | 1368959 | 100.00% | 13.579% |
| 20 | 20.898 | 3074 | 3079 | 3088 | rBV2 | 112225 | 230762 | 16.86% | 2.289% |
| 21 | 21.145 | 3115 | 3121 | 3126 | rBV2 | 378645 | 532307 | 38.88% | 5.280% |
| 22 | 21.780 | 3224 | 3229 | 3244 | rVB4 | 32358 | 96093 | 7.02% | 0.953% |
| 23 | 22.239 | 3304 | 3307 | 3311 | rVB4 | 27287 | 33803 | 2.47% | 0.335% |
| 24 | 22.363 | 3325 | 3328 | 3333 | rVB2 | 38683 | 52022 | 3.80% | 0.516% |
| 25 | 22.751 | 3390 | 3394 | 3399 | rVB2 | 66957 | 96386 | 7.04% | 0.956% |
| 26 | 23.327 | 3488 | 3492 | 3495 | rBV | 41659 | 63538 | 4.64% | 0.630% |
| 27 | 23.374 | 3495 | 3500 | 3512 | rVB2 | 244502 | 453590 | 33.13% | 4.499% |
| 28 | 23.992 | 3600 | 3605 | 3611 | rVB2 | 52757 | 92861 | 6.78% | 0.921% |

Sum of corrected areas: 10081755

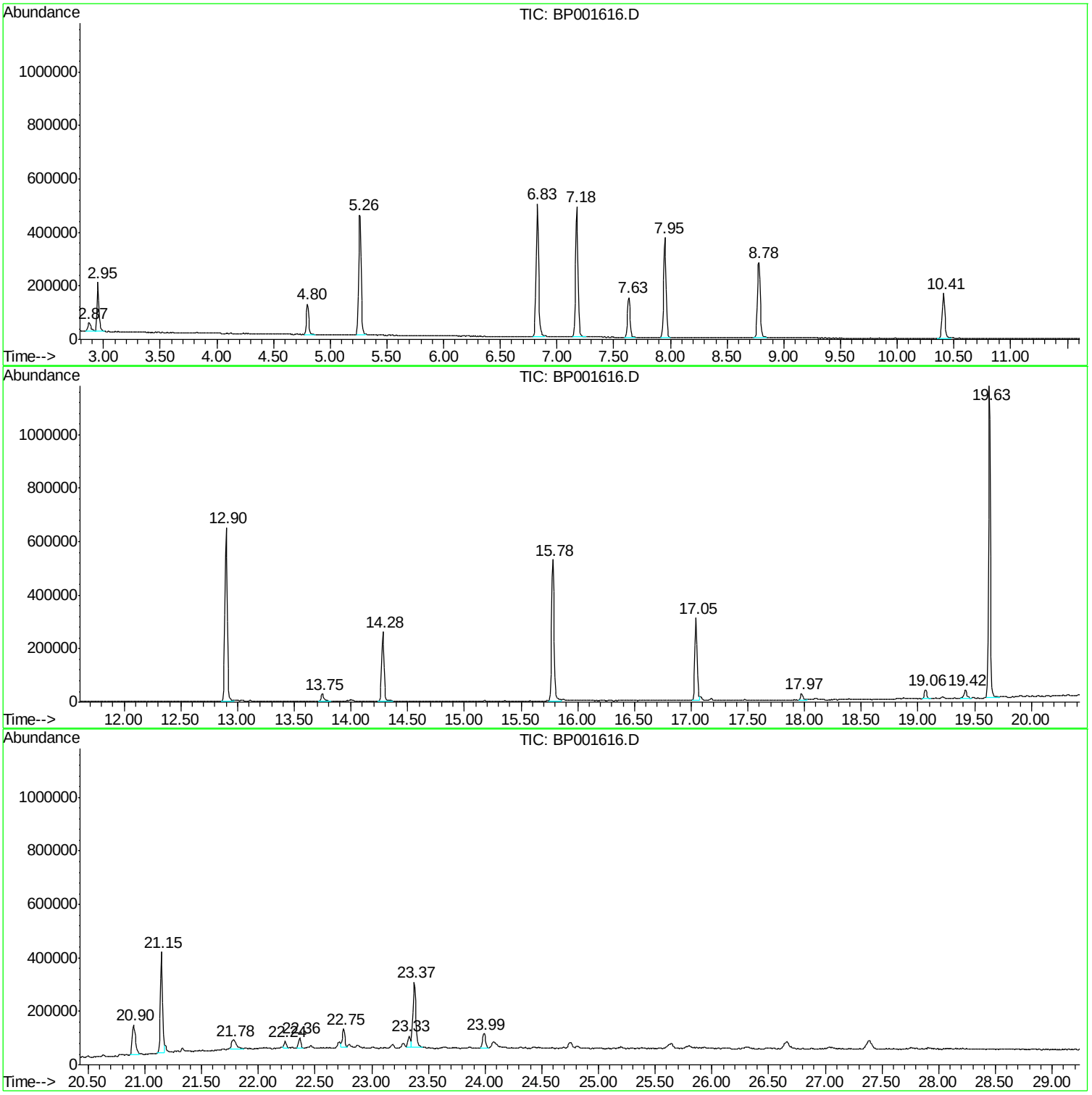
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP011520\
Data File : BP001616.D
Acq On : 15 Jan 2020 19:06
Operator : JU
Sample : L1125-03
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_P
**ClientSampleId :** FESB-34-(4.5-5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP010820.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP011520\
Data File : BP001616.D
Acq On : 15 Jan 2020 19:06
Operator : JU
Sample : L1125-03
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_P
**ClientSampleId :** FESB-34-(4.5-5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP010820.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

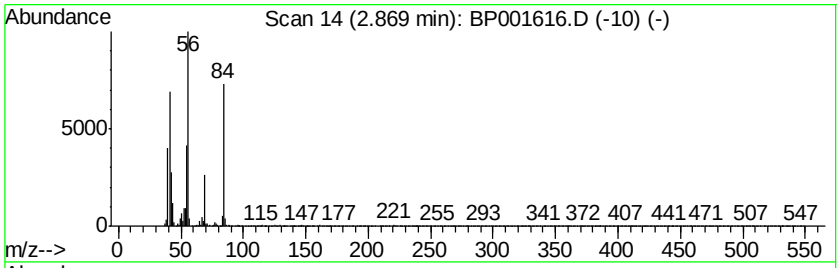
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

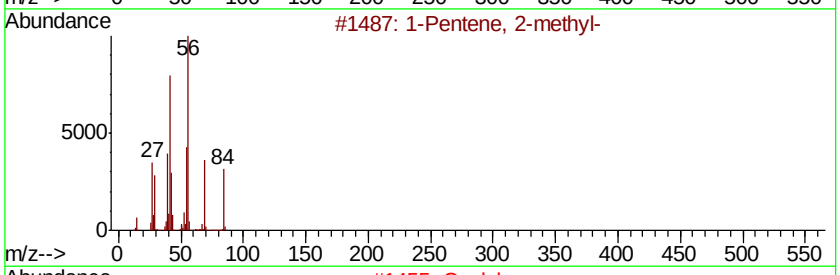
**********

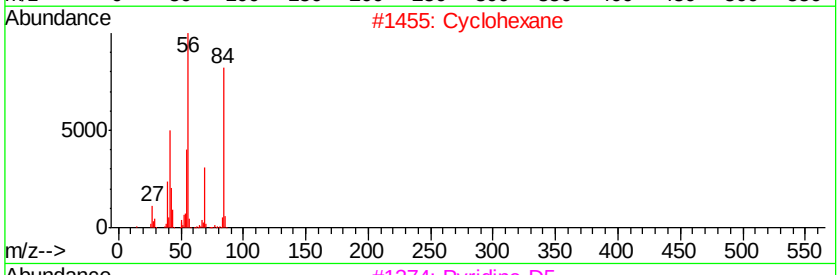
Peak Number 1 1-Pentene, 2-methyl- Concentration Rank 6

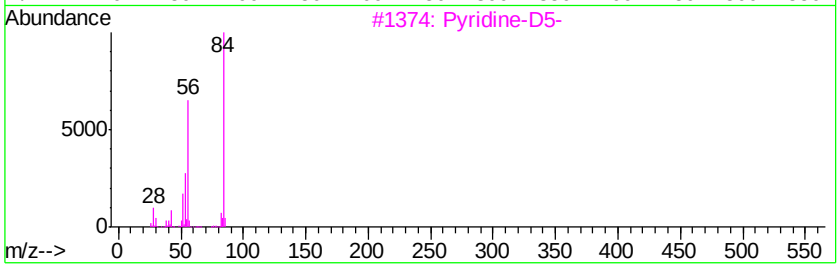
| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 2.87 | 4.66 ng | 54203 | 1,4-Dichlorobenzene-d4 | 7.63 |

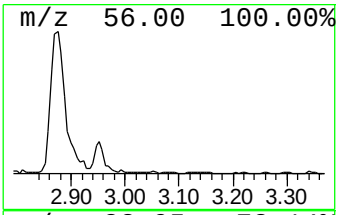
| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Pentene, 2-methyl- | 84 | C6H12 | 000763-29-1 | 90 |
| 2 | Cyclohexane | 84 | C6H12 | 000110-82-7 | 76 |
| 3 | Pyridine-D5- | 84 | C5D5N | 007291-22-7 | 53 |
| 4 | 2-Butenal, 3-methyl- | 84 | C5H8O | 000107-86-8 | 43 |
| 5 | 1-Hexene, 5-methyl- | 98 | C7H14 | 003524-73-0 | 43 |

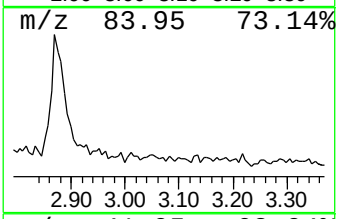


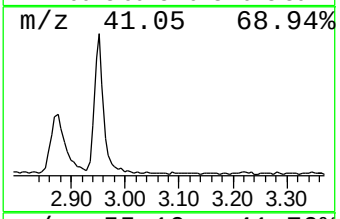



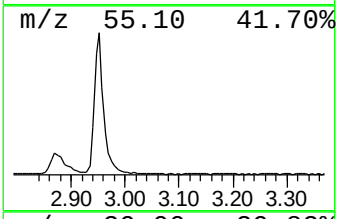



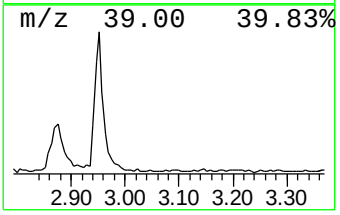



Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP011520\
Data File : BP001616.D
Acq On : 15 Jan 2020 19:06
Operator : JU
Sample : L1125-03
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_P
**ClientSampleId :** FESB-34-(4.5-5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP010820.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

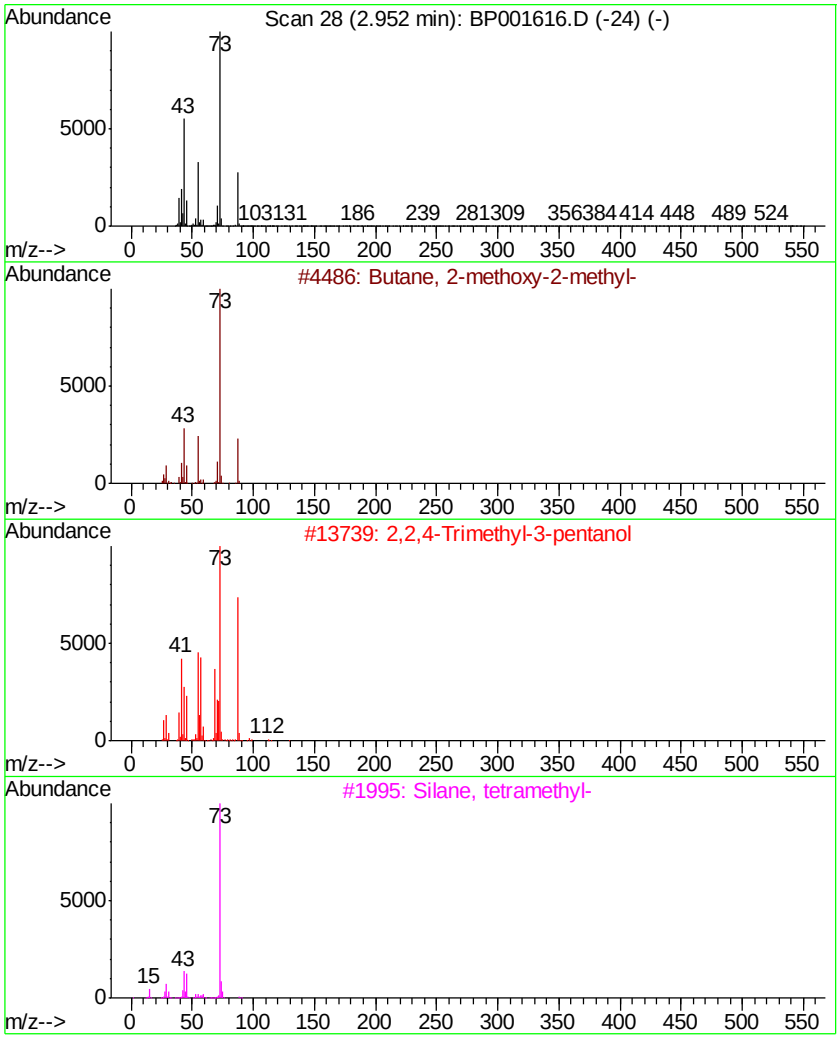
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

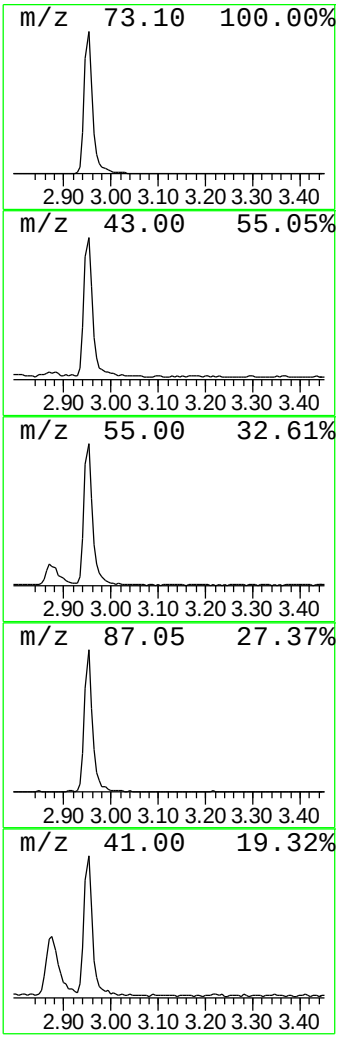
**********

Peak Number 2 Butane, 2-methoxy-2-methyl- Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 2.95 | 18.88 ng | 219722 | 1,4-Dichlorobenzene-d4 | 7.63 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butane, 2-methoxy-2-methyl- | 102 | C6H14O | 000994-05-8 | 83 |
| 2 | 2,2,4-Trimethyl-3-pentanol | 130 | C8H18O | 005162-48-1 | 40 |
| 3 | Silane, tetramethyl- | 88 | C4H12Si | 000075-76-3 | 38 |
| 4 | 1,3-Dioxolane, 2-methyl- | 88 | C4H8O2 | 000497-26-7 | 9 |
| 5 | 3,4-Hexanediol, 2,5-dimethyl- | 146 | C8H18O2 | 022607-11-0 | 9 |



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP011520\
Data File : BP001616.D
Acq On : 15 Jan 2020 19:06
Operator : JU
Sample : L1125-03
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_P
**ClientSampleId :** FESB-34-(4.5-5)

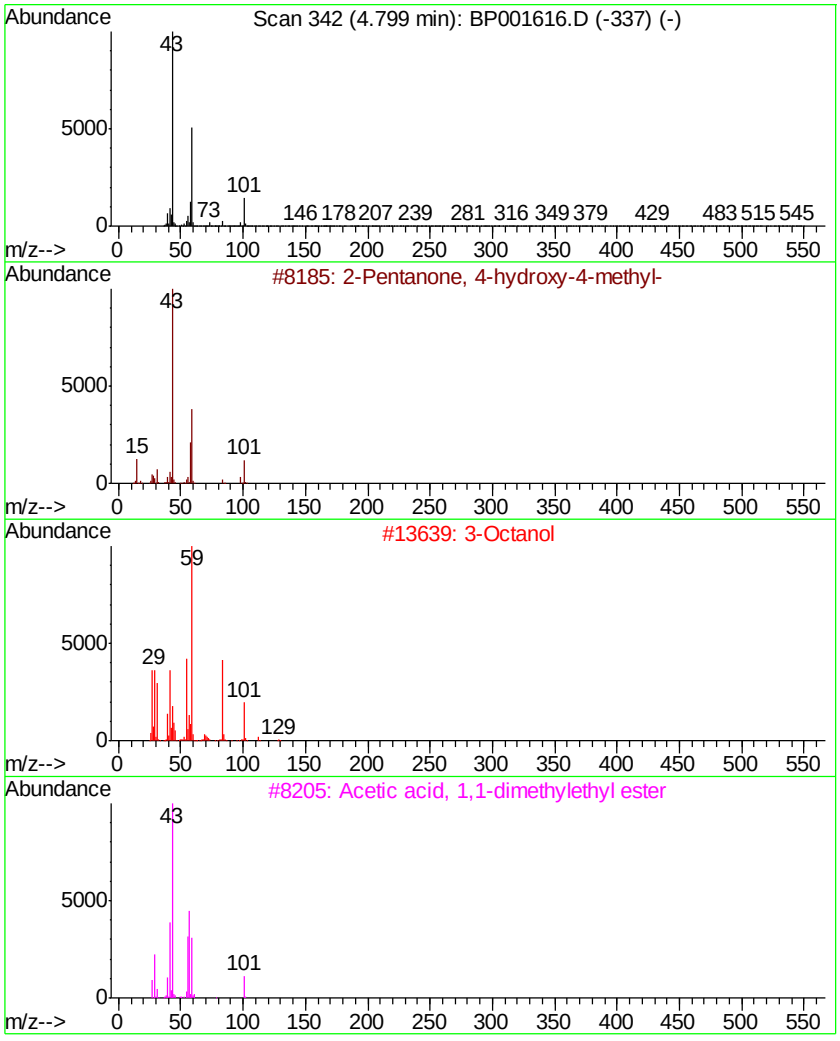
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP010820.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

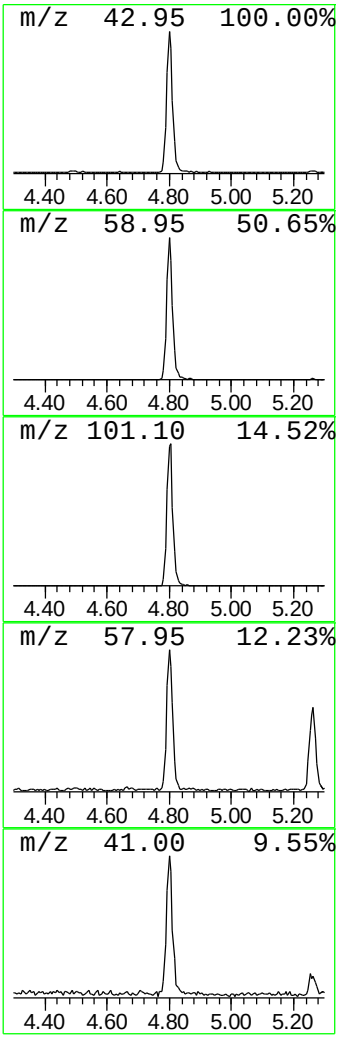
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.80 | 13.41 ng | 156053 | 1,4-Dichlorobenzene-d4 | 7.63 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 50 |
| 2 | 3-Octanol | 130 | C8H18O | 000589-98-0 | 33 |
| 3 | Acetic acid, 1,1-dimethylethyl e... | 116 | C6H12O2 | 000540-88-5 | 28 |
| 4 | 3-Hydroxy-3-methyl-2-butanone | 102 | C5H10O2 | 000115-22-0 | 23 |
| 5 | 1-Propen-2-ol, acetate | 100 | C5H8O2 | 000108-22-5 | 22 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP011520\
Data File : BP001616.D
Acq On : 15 Jan 2020 19:06
Operator : JU
Sample : L1125-03
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_P
**ClientSampleId :** FESB-34-(4.5-5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP010820.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

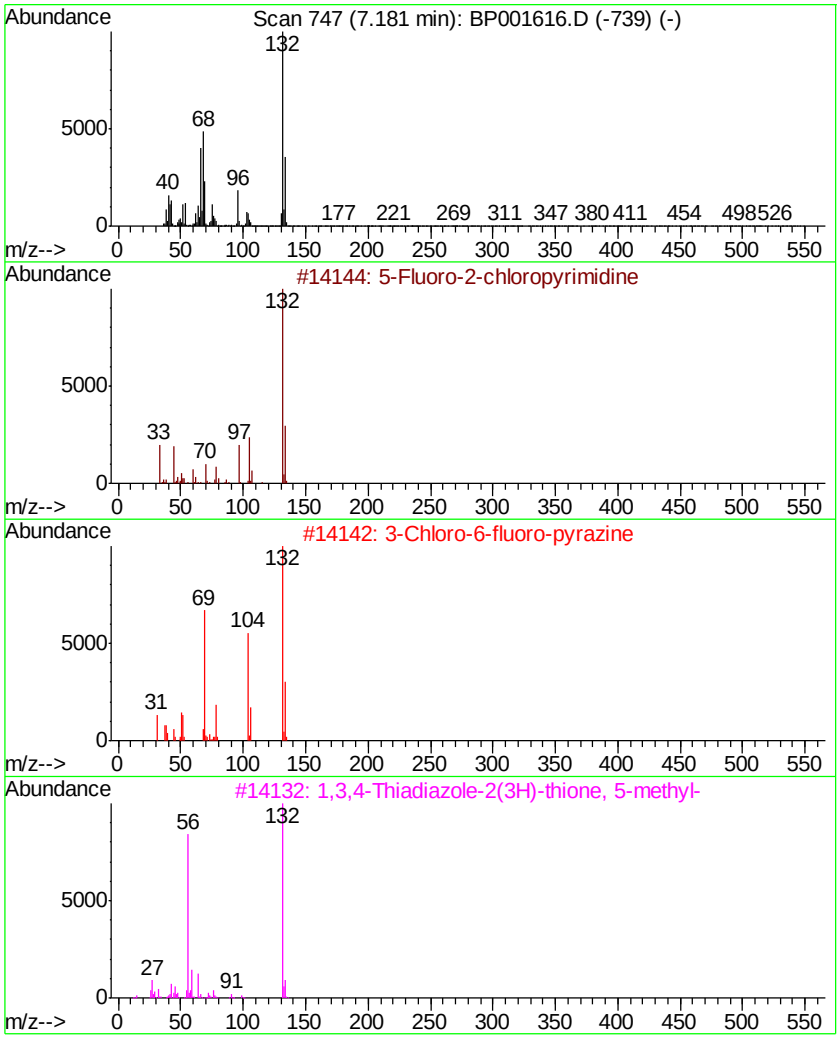
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

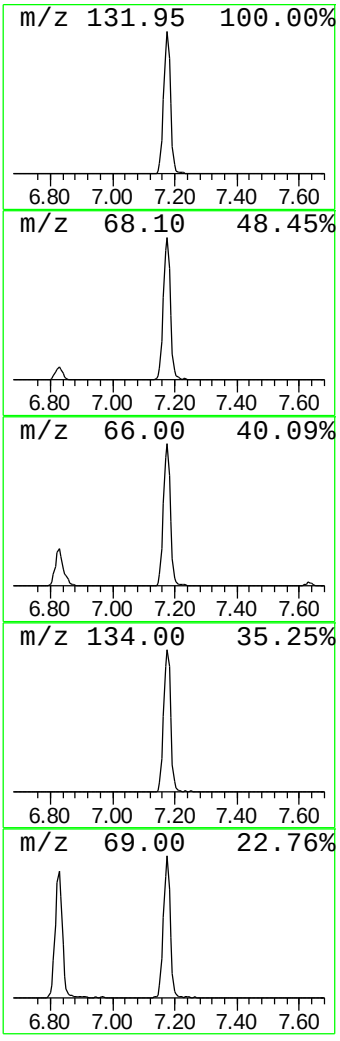
**********

Peak Number 4 unknown7.18 Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.18 | 64.87 ng | 755087 | 1,4-Dichlorobenzene-d4 | 7.63 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 5-Fluoro-2-chloropyrimidine | 132 | C4H2ClFN2 | 062802-42-0 | 14 |
| 2 | 3-Chloro-6-fluoro-pyrazine | 132 | C4H2ClFN2 | 1000146-10-7 | 14 |
| 3 | 1,3,4-Thiadiazole-2(3H)-thione, ... | 132 | C3H4N2S2 | 029490-19-5 | 14 |
| 4 | 3H-1,2-Dithiol-3-one, 5-methyl- | 132 | C4H4OS2 | 003620-08-4 | 14 |
| 5 | 1H-Benzimidazole, 2-methyl- | 132 | C8H8N2 | 000615-15-6 | 14 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP011520\
Data File : BP001616.D
Acq On : 15 Jan 2020 19:06
Operator : JU
Sample : L1125-03
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_P
**ClientSampleId :** FESB-34-(4.5-5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP010820.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

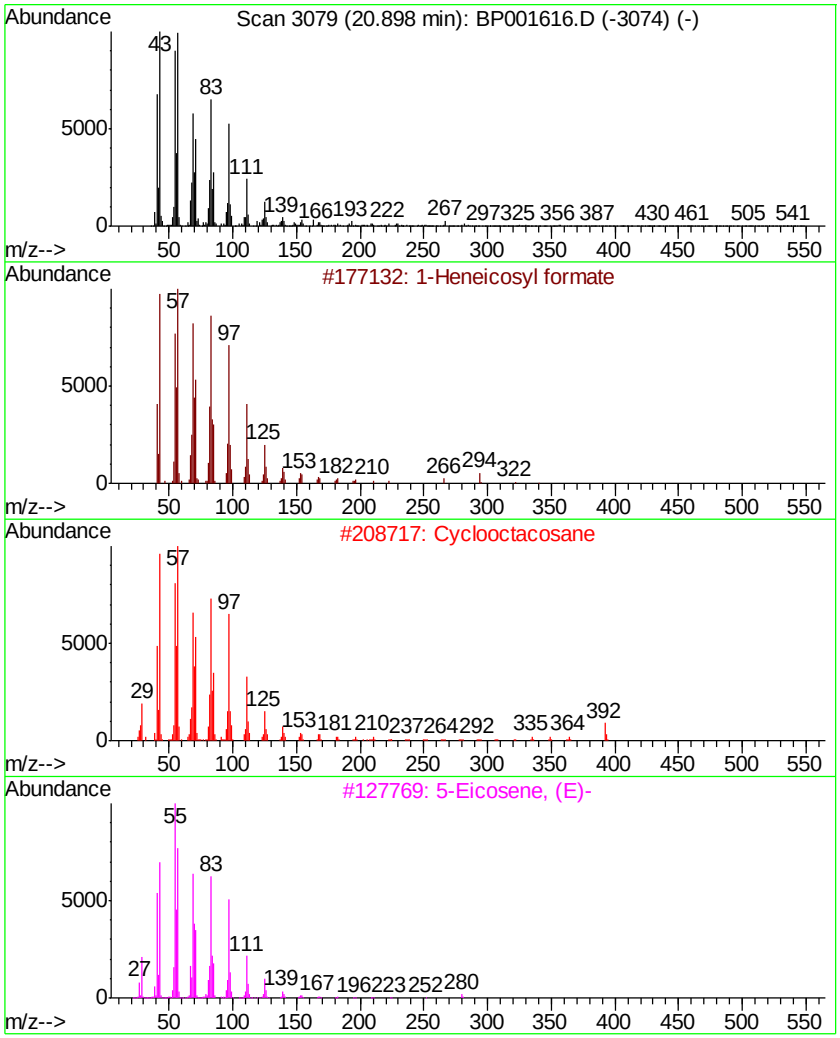
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

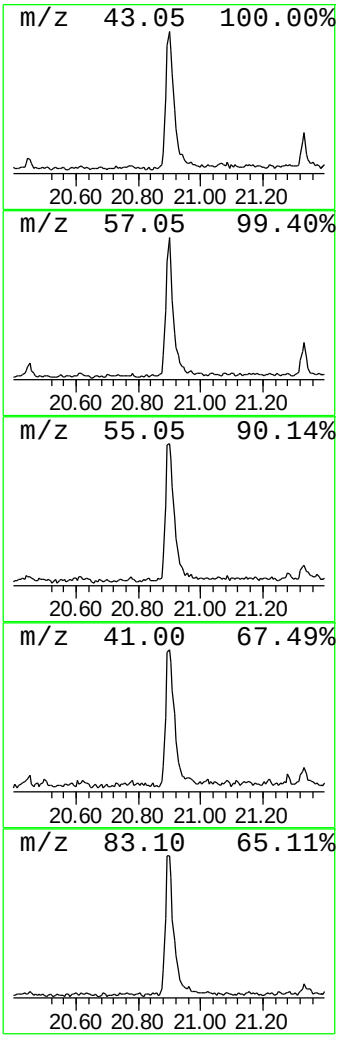
**********

Peak Number 8 1-Heneicosyl formate Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.90 | 8.67 ng | 230762 | Chrysene-d12 | 21.15 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Heneicosyl formate | 340 | C22H44O2 | 077899-03-7 | 97 |
| 2 | Cyclooctacosane | 392 | C28H56 | 000297-24-5 | 95 |
| 3 | 5-Eicosene, (E)- | 280 | C20H40 | 074685-30-6 | 95 |
| 4 | 1-Docosene | 308 | C22H44 | 001599-67-3 | 95 |
| 5 | Fumaric acid, 2-chloropropyl dod... | 360 | C19H33ClO4 | 1000348-57-0 | 95 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP011520\
Data File : BP001616.D
Acq On : 15 Jan 2020 19:06
Operator : JU
Sample : L1125-03
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_P
**ClientSampleId :** FESB-34-(4.5-5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP010820.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

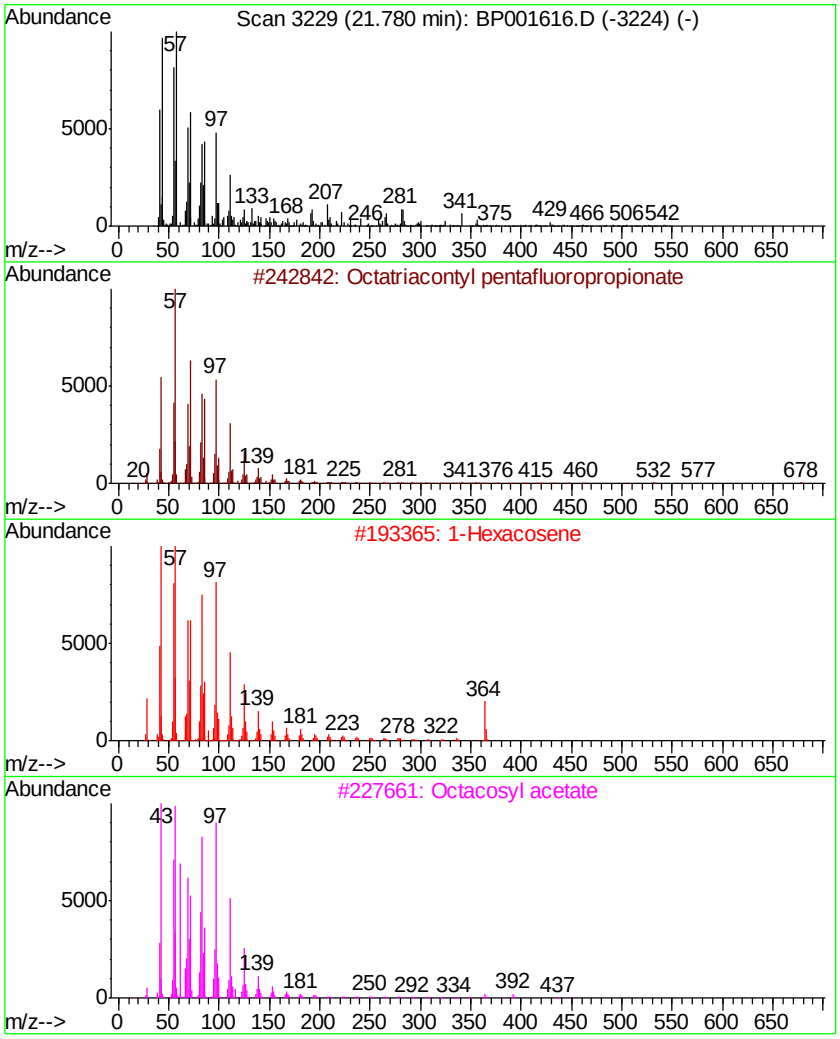
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

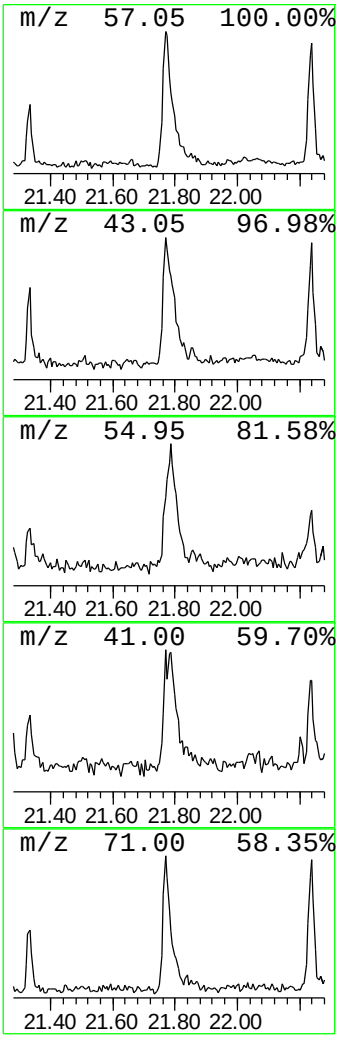
**********

Peak Number 9 Octatriacontyl pentafluorop... Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 21.78 | 3.61 ng | 96093 | Chrysene-d12 | 21.15 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octatriacontyl pentafluoropropio... | 697 | C41H77F5O2 | 1000351-89-1 | 87 |
| 2 | 1-Hexacosene | 364 | C26H52 | 018835-33-1 | 86 |
| 3 | Octacosyl acetate | 452 | C30H60O2 | 018206-97-8 | 83 |
| 4 | Dimethylmalonic acid, pentadecyl... | 520 | C26H39Cl3O4 | 1000363-65-7 | 68 |
| 5 | erythro-9,10-Dibromopentacosane | 508 | C25H50Br2 | 059907-02-7 | 58 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP011520\
Data File : BP001616.D
Acq On : 15 Jan 2020 19:06
Operator : JU
Sample : L1125-03
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_P
**ClientSampleId :** FESB-34-(4.5-5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP010820.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

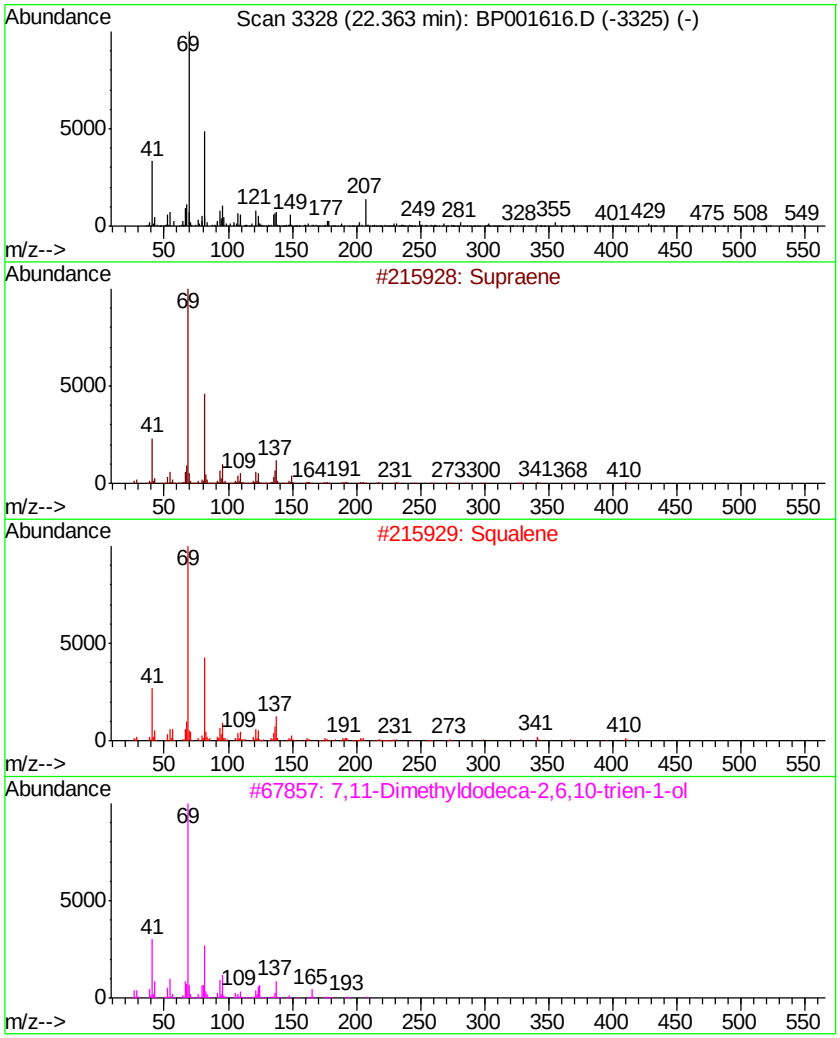
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

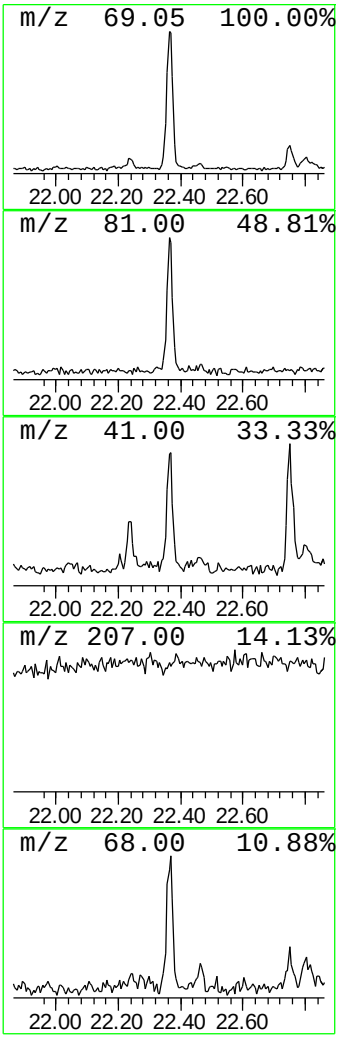
**********

Peak Number 10 Supraene Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 22.36 | 2.29 ng | 52022 | Perylene-d12 | 23.37 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Supraene | 410 | C30H50 | 007683-64-9 | 64 |
| 2 | Squalene | 410 | C30H50 | 000111-02-4 | 64 |
| 3 | 7,11-Dimethyldodeca-2,6,10-trien... | 208 | C14H24O | 125529-10-4 | 59 |
| 4 | 1,6-Octadiene, 3,5-dimethyl-, tr... | 138 | C10H18 | 074630-87-8 | 59 |
| 5 | 2,6-Octadiene, 4-methyl- | 124 | C9H16 | 074498-94-5 | 53 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP011520\
Data File : BP001616.D
Acq On : 15 Jan 2020 19:06
Operator : JU
Sample : L1125-03
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_P
**ClientSampleId :** FESB-34-(4.5-5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP010820.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

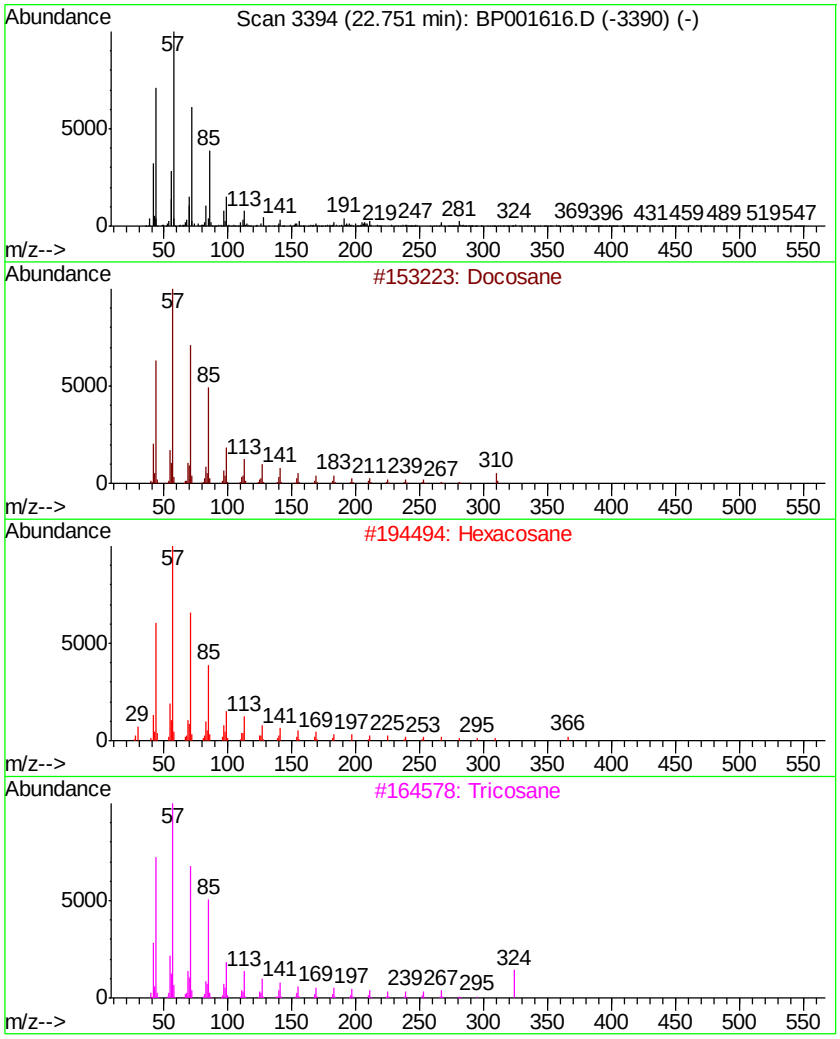
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

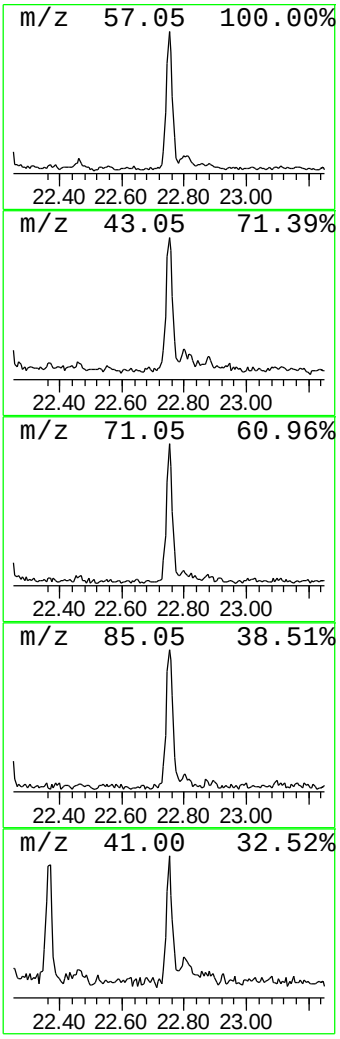
**********

Peak Number 11 Docosane Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 22.75 | 4.25 ng | 96386 | Perylene-d12 | 23.37 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Docosane | 310 | C22H46 | 000629-97-0 | 95 |
| 2 | Hexacosane | 366 | C26H54 | 000630-01-3 | 93 |
| 3 | Tricosane | 324 | C23H48 | 000638-67-5 | 91 |
| 4 | Eicosane, 7-hexyl- | 366 | C26H54 | 055333-99-8 | 87 |
| 5 | Eicosane | 282 | C20H42 | 000112-95-8 | 87 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP011520\
Data File : BP001616.D
Acq On : 15 Jan 2020 19:06
Operator : JU
Sample : L1125-03
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_P
**ClientSampleId :** FESB-34-(4.5-5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP010820.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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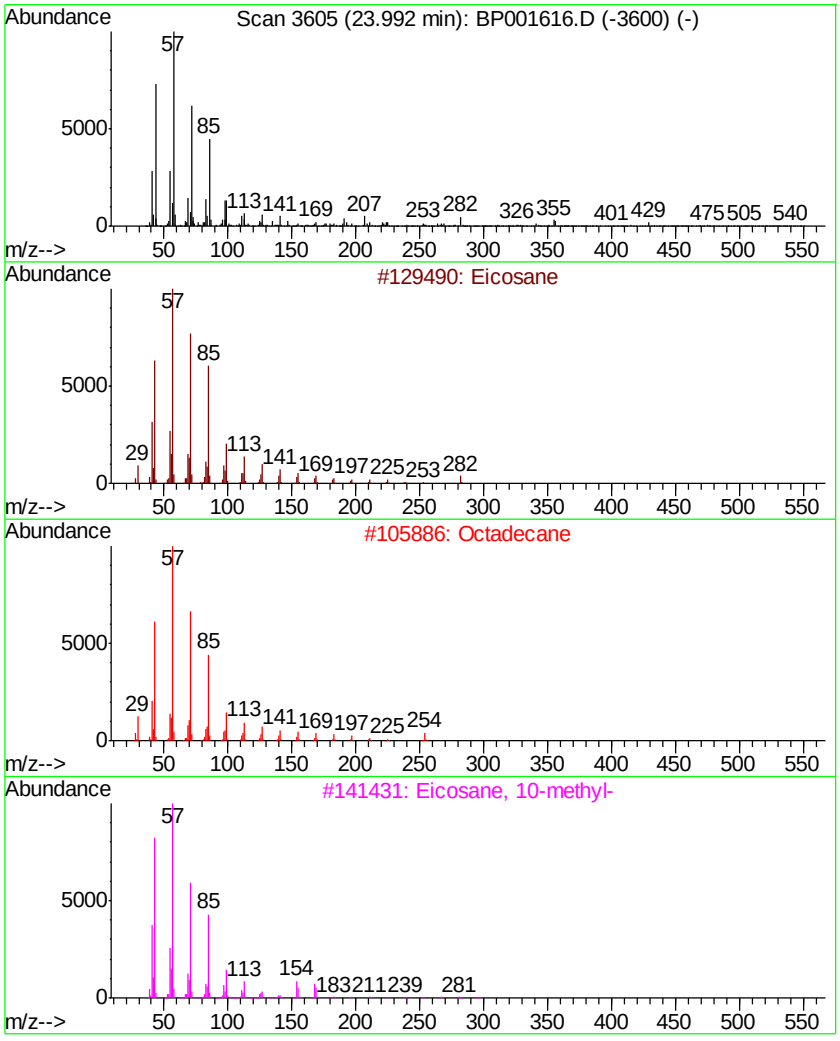
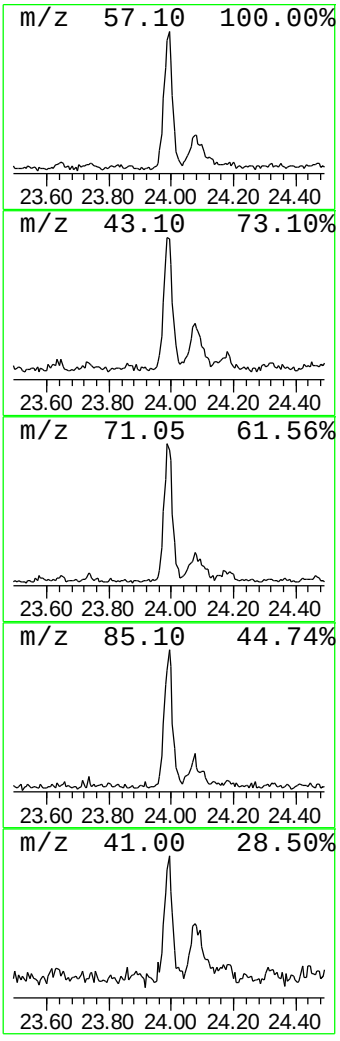
Peak Number 12 Eicosane Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 23.99 | 4.09 ng | 92861 | Perylene-d12 | 23.37 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Eicosane | 282 | C20H42 | 000112-95-8 | 94 |
| 2 | Octadecane | 254 | C18H38 | 000593-45-3 | 92 |
| 3 | Eicosane, 10-methyl- | 296 | C21H44 | 054833-23-7 | 91 |
| 4 | Pentadecane, 8-hexyl- | 296 | C21H44 | 013475-75-7 | 91 |
| 5 | Heptadecane, 9-octyl- | 352 | C25H52 | 007225-64-1 | 83 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_P\DATA\BP011520\
Data File : BP001616.D
Acq On : 15 Jan 2020 19:06
Operator : JU
Sample : L1125-03
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_P
**ClientSampleId :** FESB-34-(4.5-5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP010820.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 |
| 1-Pentene, 2-methyl- | 2.87 | 4.7 | ng | 54203 | 1 | 7.63 | 232800 | 20.0 |
| Butane, 2-methoxy... | 2.95 | 18.9 | ng | 219722 | 1 | 7.63 | 232800 | 20.0 |
| 2-Pentanone, 4-hy... | 4.80 | 13.4 | ng | 156053 | 1 | 7.63 | 232800 | 20.0 |
| unknown7.18 | 7.18 | 64.9 | ng | 755087 | 1 | 7.63 | 232800 | 20.0 |
| 1-Heneicosyl formate | 20.90 | 8.7 | ng | 230762 | 5 | 21.15 | 532307 | 20.0 |
| Octatriacontyl pe... | 21.78 | 3.6 | ng | 96093 | 5 | 21.15 | 532307 | 20.0 |
| Supraene | 22.36 | 2.3 | ng | 52022 | 6 | 23.37 | 453590 | 20.0 |
| Docosane | 22.75 | 4.3 | ng | 96386 | 6 | 23.37 | 453590 | 20.0 |
| Eicosane | 23.99 | 4.1 | ng | 92861 | 6 | 23.37 | 453590 | 20.0 |