LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP050520\
Data File : BP002248.D
Acq On : 05 May 2020 21:35
Operator : CG/JU
Sample : L2475-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

**Instrument :** BNA_P
**ClientSampleId :** FK-SF-03-009-A

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-BP050420.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 | 2.917 | 3 | 5 | 18 | rVB | 233959 | 292034 | 1.73% | 0.213% |
| 2 | 5.234 | 392 | 399 | 417 | rBV | 6686254 | 10105872 | 59.98% | 7.359% |
| 3 | 6.805 | 654 | 666 | 680 | rBV | 6691134 | 11334730 | 67.27% | 8.254% |
| 4 | 7.616 | 796 | 804 | 813 | rBV | 1471680 | 2306475 | 13.69% | 1.680% |
| 5 | 7.934 | 850 | 858 | 866 | rBV | 5471438 | 8972201 | 53.25% | 6.534% |
| 6 | 8.757 | 984 | 998 | 1014 | rBV | 4346529 | 7429041 | 44.09% | 5.410% |
| 7 | 10.387 | 1267 | 1275 | 1281 | rBV | 2105901 | 3470602 | 20.60% | 2.527% |
| 8 | 12.881 | 1691 | 1699 | 1706 | rBV | 9519593 | 15039201 | 89.26% | 10.952% |
| 9 | 13.716 | 1833 | 1841 | 1847 | rBV | 668003 | 981016 | 5.82% | 0.714% |
| 10 | 13.975 | 1880 | 1885 | 1890 | rBV | 118304 | 173253 | 1.03% | 0.126% |
| 11 | 14.257 | 1927 | 1933 | 1939 | rBV | 3101897 | 4633727 | 27.50% | 3.374% |
| 12 | 15.310 | 2107 | 2112 | 2117 | rBV | 110389 | 179215 | 1.06% | 0.131% |
| 13 | 15.751 | 2180 | 2187 | 2197 | rBV | 6785871 | 10384921 | 61.64% | 7.562% |
| 14 | 16.598 | 2327 | 2331 | 2338 | rBV | 215527 | 297974 | 1.77% | 0.217% |
| 15 | 16.822 | 2366 | 2369 | 2374 | rVB2 | 158557 | 202366 | 1.20% | 0.147% |
| 16 | 17.010 | 2395 | 2401 | 2405 | rBV | 3841042 | 5412520 | 32.12% | 3.941% |
| 17 | 17.051 | 2405 | 2408 | 2414 | rVB | 1186032 | 1521548 | 9.03% | 1.108% |
| 18 | 17.139 | 2419 | 2423 | 2428 | rVB | 345963 | 473355 | 2.81% | 0.345% |
| 19 | 17.886 | 2546 | 2550 | 2554 | rBV | 275094 | 368331 | 2.19% | 0.268% |
| 20 | 17.945 | 2554 | 2560 | 2567 | rBV2 | 1611664 | 2628418 | 15.60% | 1.914% |
| 21 | 18.069 | 2576 | 2581 | 2585 | rBV3 | 391019 | 661371 | 3.93% | 0.482% |
| 22 | 18.375 | 2630 | 2633 | 2635 | rBV2 | 177049 | 214803 | 1.27% | 0.156% |
| 23 | 18.404 | 2636 | 2638 | 2648 | rVB2 | 193006 | 319475 | 1.90% | 0.233% |
| 24 | 18.780 | 2698 | 2702 | 2707 | rBV | 220147 | 316701 | 1.88% | 0.231% |
| 25 | 18.910 | 2721 | 2724 | 2731 | rVB3 | 134580 | 229590 | 1.36% | 0.167% |
| 26 | 19.033 | 2740 | 2745 | 2749 | rBV | 3040405 | 4132008 | 24.52% | 3.009% |
| 27 | 19.069 | 2749 | 2751 | 2754 | rVV | 357320 | 414524 | 2.46% | 0.302% |
| 28 | 19.104 | 2754 | 2757 | 2761 | rVB2 | 358576 | 429744 | 2.55% | 0.313% |
| 29 | 19.186 | 2767 | 2771 | 2781 | rBV2 | 945016 | 1401765 | 8.32% | 1.021% |
| 30 | 19.380 | 2794 | 2804 | 2808 | rBV | 2734171 | 4363821 | 25.90% | 3.178% |
| 31 | 19.598 | 2836 | 2841 | 2851 | rVB | 11399851 | 16848754 | 100.00% | 12.269% |
| 32 | 19.875 | 2885 | 2888 | 2895 | rVB | 423809 | 538056 | 3.19% | 0.392% |
| 33 | 19.969 | 2901 | 2904 | 2908 | rVB2 | 286647 | 317254 | 1.88% | 0.231% |
| 34 | 20.022 | 2910 | 2913 | 2918 | rVB2 | 340317 | 426833 | 2.53% | 0.311% |

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP050520\
Data File : BP002248.D
Acq On : 05 May 2020 21:35
Operator : CG/JU
Sample : L2475-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

**Instrument :** BNA_P
**ClientSampleId :** FK-SF-03-009-A

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-BP050420.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 20.157 | 2933 | 2936 | 2940 | rVB2 | 262054 | 297371 | 1.76% | 0.217% |
| 36 | 20.280 | 2954 | 2957 | 2961 | rVB | 824438 | 885811 | 5.26% | 0.645% |
| 37 | 20.857 | 3052 | 3055 | 3066 | rVB4 | 2312906 | 3159047 | 18.75% | 2.300% |
| 38 | 21.104 | 3091 | 3097 | 3101 | rBV2 | 3681130 | 6414933 | 38.07% | 4.671% |
| 39 | 21.145 | 3101 | 3104 | 3113 | rVB | 1312941 | 1757659 | 10.43% | 1.280% |
| 40 | 21.298 | 3128 | 3130 | 3138 | rVB3 | 375074 | 450722 | 2.68% | 0.328% |
| 41 | 21.739 | 3201 | 3205 | 3212 | rVB | 785365 | 1165942 | 6.92% | 0.849% |
| 42 | 22.657 | 3356 | 3361 | 3365 | rBV | 1001108 | 2075415 | 12.32% | 1.511% |
| 43 | 23.216 | 3452 | 3456 | 3462 | rBV | 678251 | 1081924 | 6.42% | 0.788% |
| 44 | 23.316 | 3468 | 3473 | 3479 | rVB | 1773874 | 3212293 | 19.07% | 2.339% |

Sum of corrected areas: 137322616

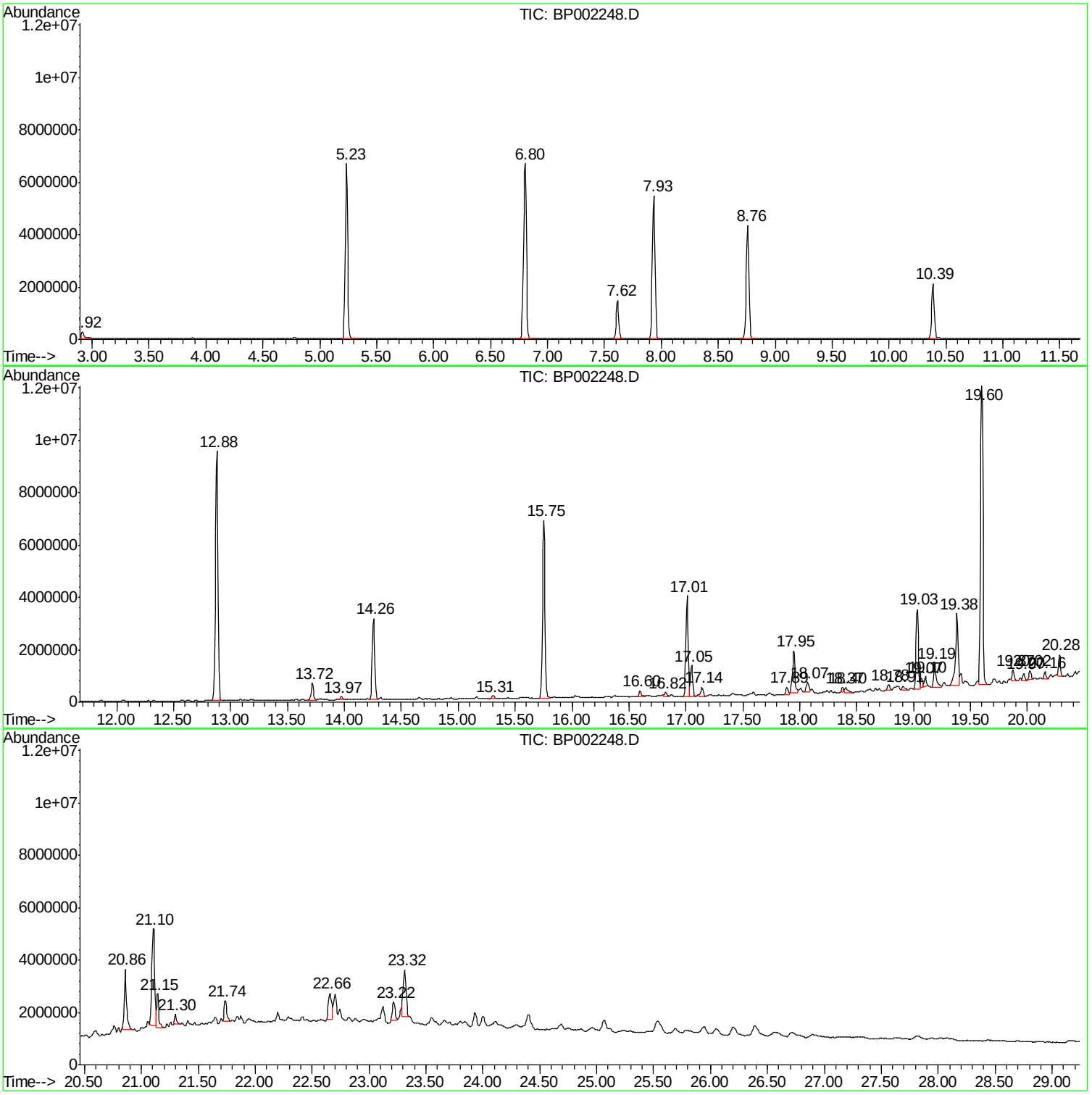
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP050520\
Data File : BP002248.D
Acq On : 05 May 2020 21:35
Operator : CG/JU
Sample : L2475-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

**Instrument :** BNA_P
**ClientSampleId :** FK-SF-03-009-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP050420.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP050520\
Data File : BP002248.D
Acq On : 05 May 2020 21:35
Operator : CG/JU
Sample : L2475-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

**Instrument :** BNA_P
**ClientSampleId :** FK-SF-03-009-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP050420.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

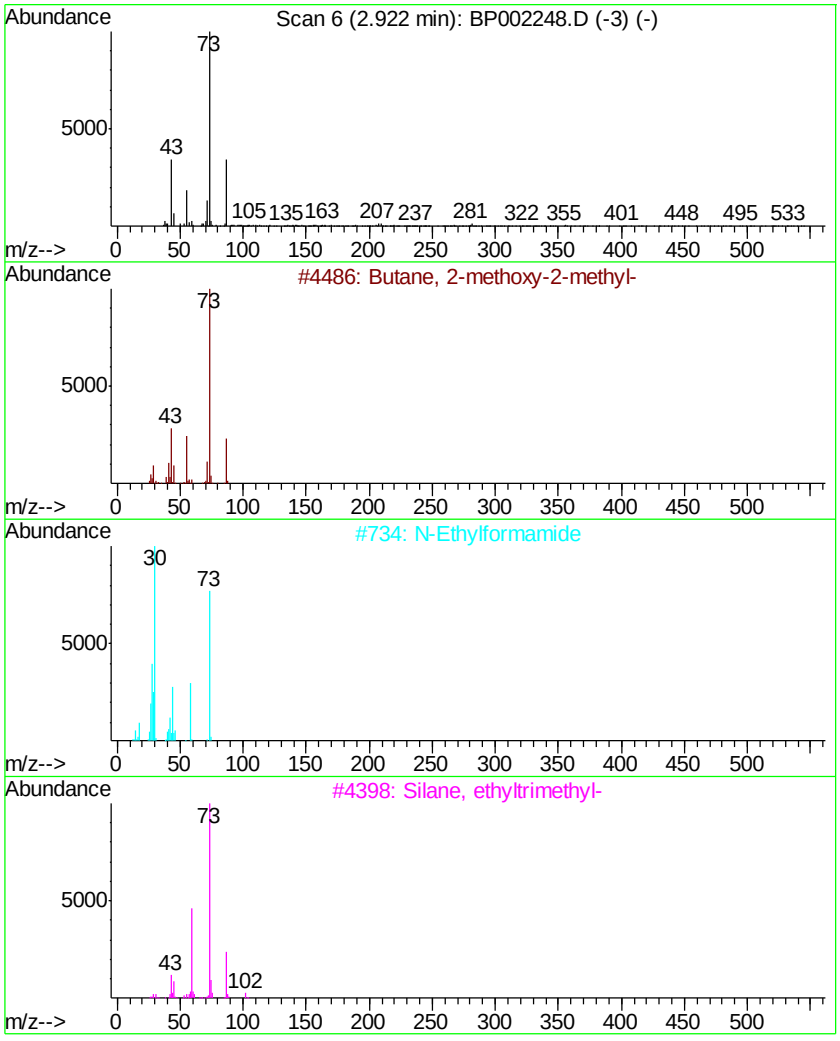
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

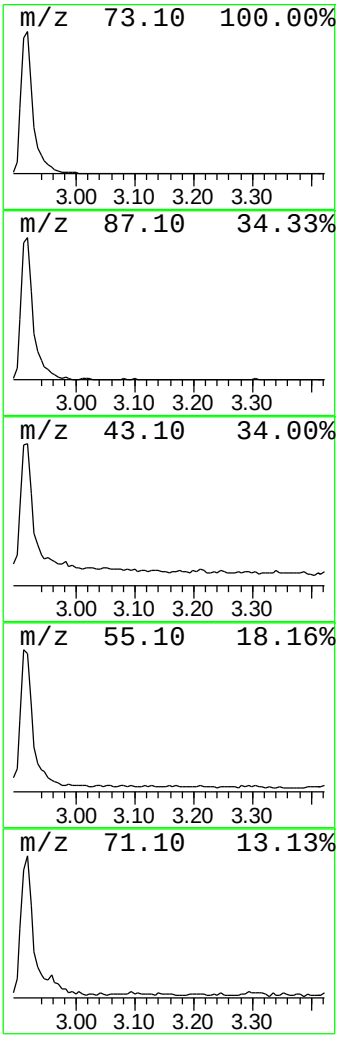
**********

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

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 2.92 | 2.53 ng | 292034 | 1,4-Dichlorobenzene-d4 | 7.62 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butane, 2-methoxy-2-methyl- | 102 | C6H14O | 000994-05-8 | 50 |
| 2 | N-Ethylformamide | 73 | C3H7NO | 000627-45-2 | 9 |
| 3 | Silane, ethyltrimethyl- | 102 | C5H14Si | 003439-38-1 | 9 |
| 4 | Acetamide, N-ethyl- | 87 | C4H9NO | 000625-50-3 | 5 |
| 5 | Thiocyanic acid, ethyl ester | 87 | C3H5NS | 000542-90-5 | 5 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP050520\
Data File : BP002248.D
Acq On : 05 May 2020 21:35
Operator : CG/JU
Sample : L2475-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

**Instrument :** BNA_P
**ClientSampleId :** FK-SF-03-009-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP050420.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

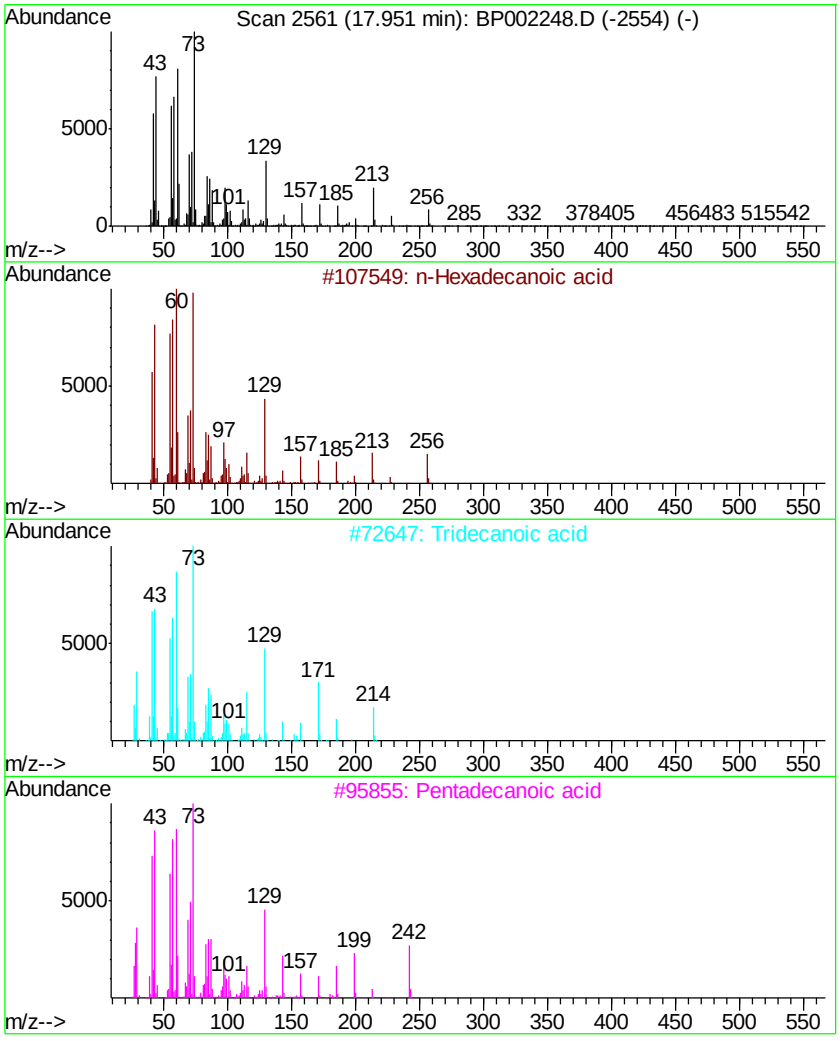
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

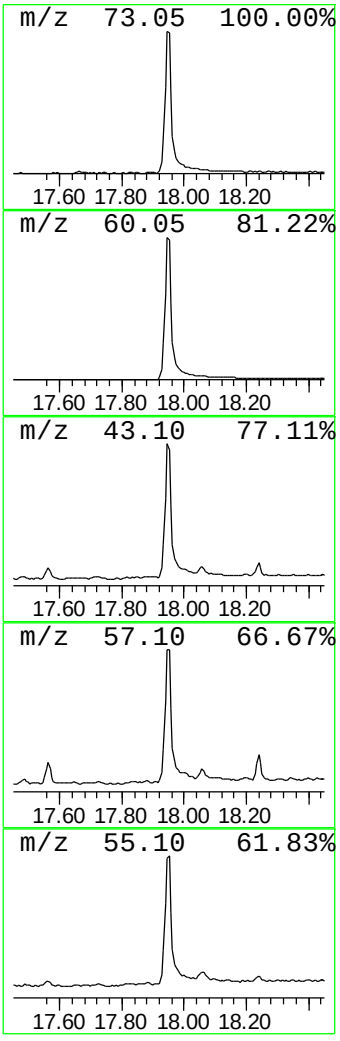
**********

Peak Number 3 n-Hexadecanoic acid Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.95 | 9.71 ng | 2628420 | Phenanthrene-d10 | 17.01 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 99 |
| 2 | Tridecanoic acid | 214 | C13H26O2 | 000638-53-9 | 93 |
| 3 | Pentadecanoic acid | 242 | C15H30O2 | 001002-84-2 | 87 |
| 4 | Tetradecanoic acid | 228 | C14H28O2 | 000544-63-8 | 87 |
| 5 | Undecanoic acid | 186 | C11H22O2 | 000112-37-8 | 38 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP050520\
Data File : BP002248.D
Acq On : 05 May 2020 21:35
Operator : CG/JU
Sample : L2475-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

**Instrument :** BNA_P
**ClientSampleId :** FK-SF-03-009-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP050420.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

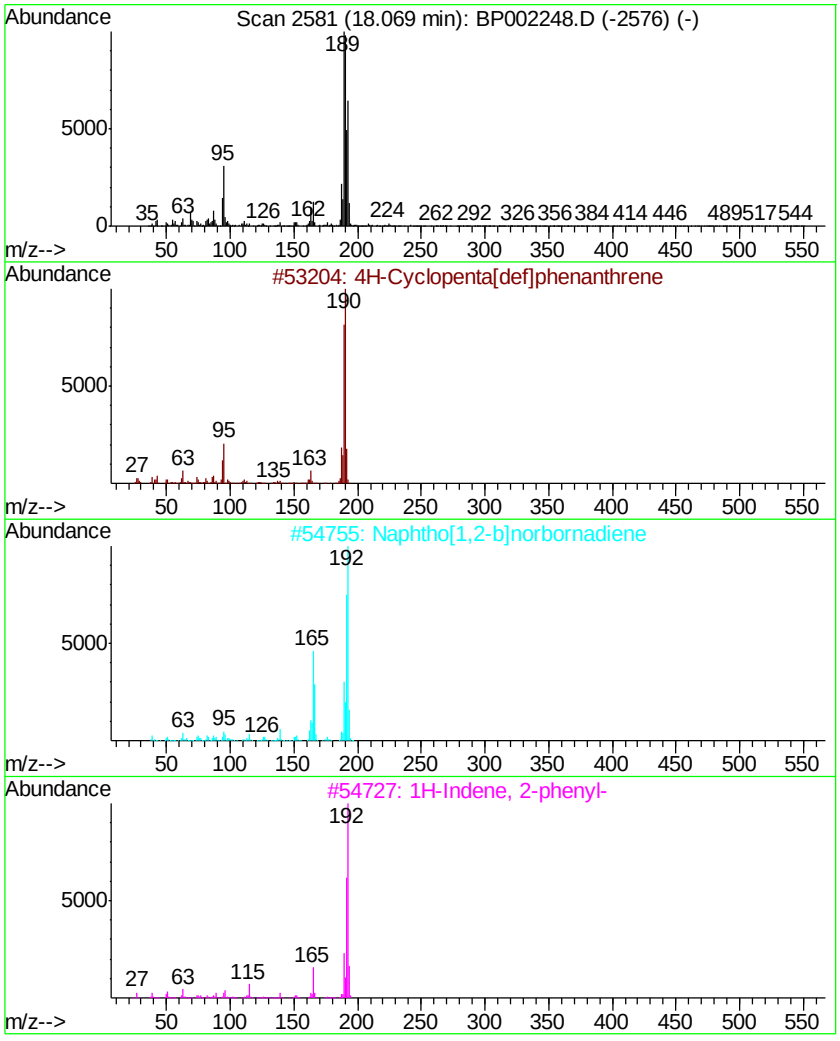
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

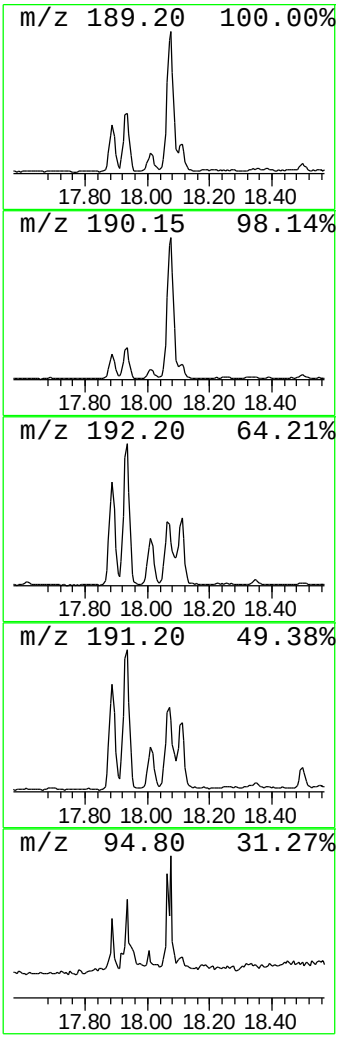
**********

Peak Number 4 4H-Cyclopenta[def]phenanthrene Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.07 | 2.44 ng | 661371 | Phenanthrene-d10 | 17.01 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 60 |
| 2 | Naphtho[1,2-b]norbornadiene | 192 | C15H12 | 1000210-14-8 | 42 |
| 3 | 1H-Indene, 2-phenyl- | 192 | C15H12 | 004505-48-0 | 38 |
| 4 | Phenanthrene, 4-methyl- | 192 | C15H12 | 000832-64-4 | 38 |
| 5 | 5H-Dibenzo[a,d]cycloheptene | 192 | C15H12 | 000256-81-5 | 38 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP050520\
Data File : BP002248.D
Acq On : 05 May 2020 21:35
Operator : CG/JU
Sample : L2475-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

**Instrument :** BNA_P
**ClientSampleId :** FK-SF-03-009-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP050420.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

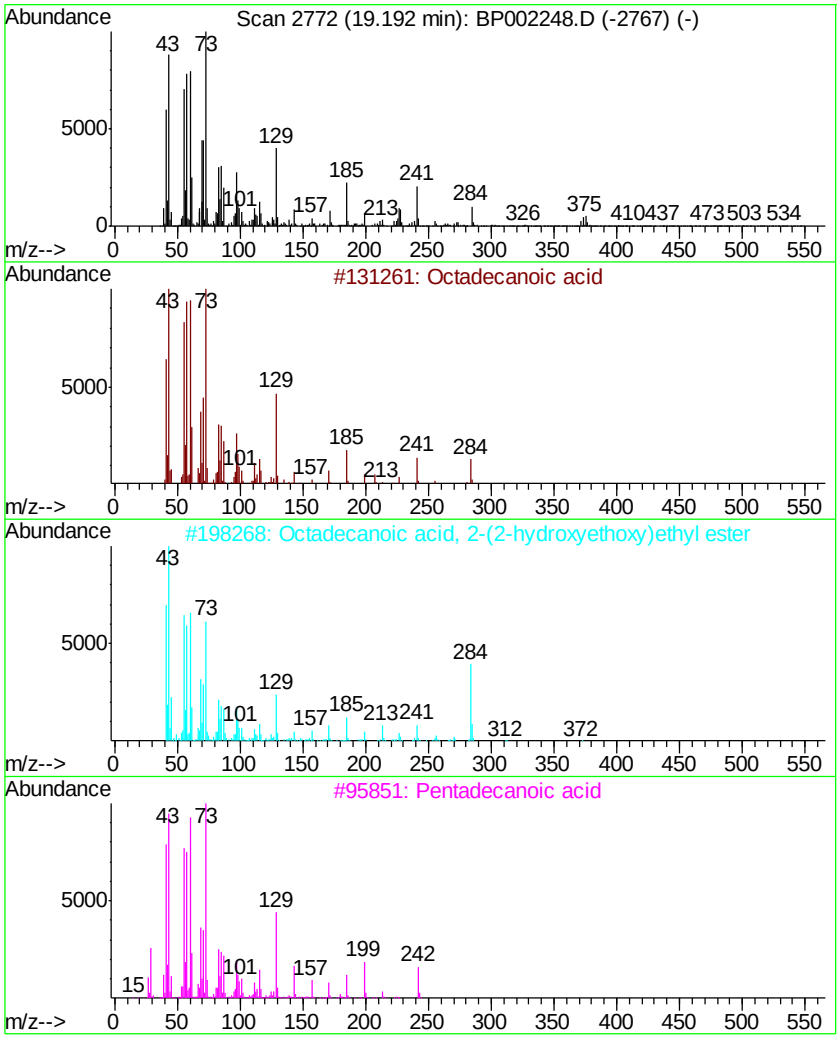
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

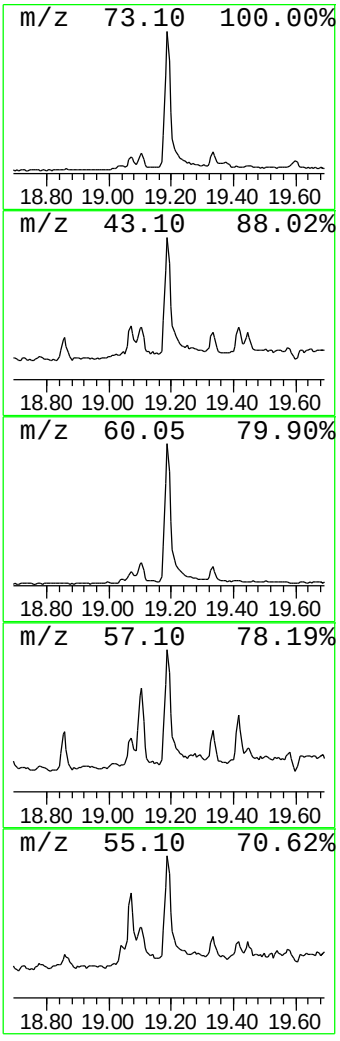
**********

Peak Number 5 Octadecanoic acid Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.19 | 4.37 ng | 1401770 | Chrysene-d12 | 21.11 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octadecanoic acid | 284 | C18H36O2 | 000057-11-4 | 99 |
| 2 | Octadecanoic acid, 2-(2-hydroxye... | 372 | C22H44O4 | 000106-11-6 | 91 |
| 3 | Pentadecanoic acid | 242 | C15H30O2 | 001002-84-2 | 86 |
| 4 | n-Decanoic acid | 172 | C10H20O2 | 000334-48-5 | 68 |
| 5 | Decanoic acid, silver(1+) salt | 278 | C10H19AgO2 | 013126-67-5 | 64 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP050520\
Data File : BP002248.D
Acq On : 05 May 2020 21:35
Operator : CG/JU
Sample : L2475-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

**Instrument :** BNA_P
**ClientSampleId :** FK-SF-03-009-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP050420.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

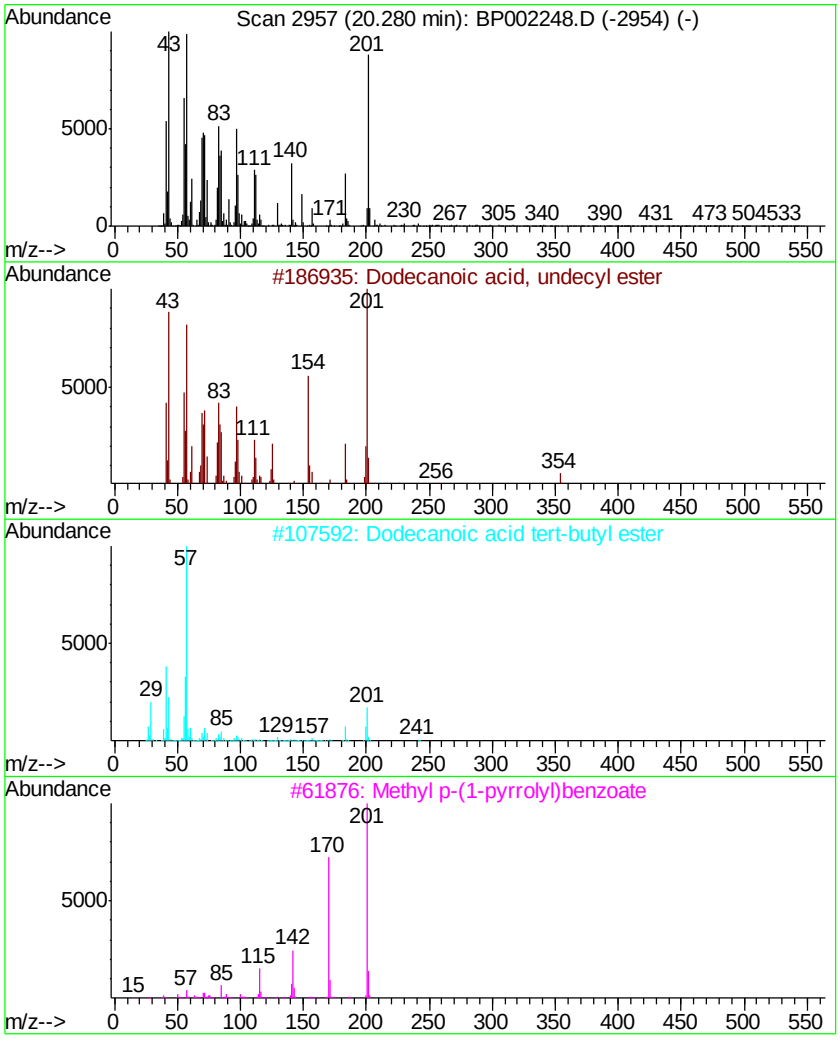
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

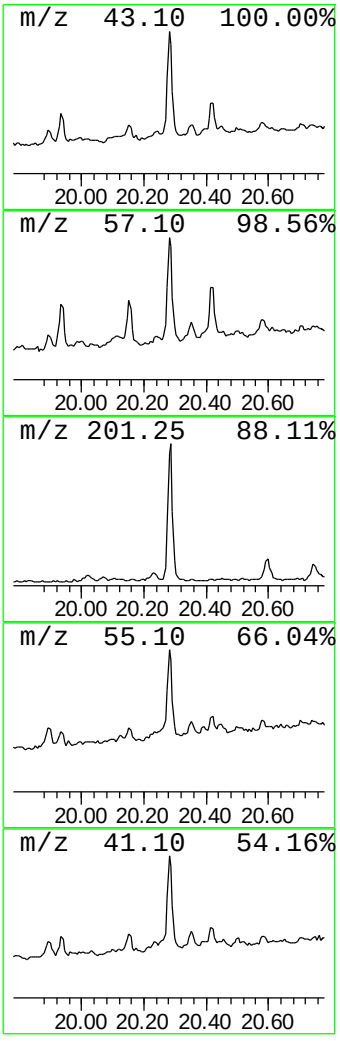
**********

Peak Number 6 Dodecanoic acid, undecyl ester Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.28 | 2.76 ng | 885811 | Chrysene-d12 | 21.11 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Dodecanoic acid, undecyl ester | 354 | C23H46O2 | 003658-44-4 | 80 |
| 2 | Dodecanoic acid tert-butyl ester | 256 | C16H32O2 | 007143-18-2 | 16 |
| 3 | Methyl p-(1-pyrrolyl)benzoate | 201 | C12H11NO2 | 023351-08-8 | 12 |
| 4 | 3-Chloro-4-(dichloromethyl)-5-tr... | 312 | C7H2Cl3F3O4 | 1192024-37-5 | 10 |
| 5 | Thieno(2,3-b)quinoline-9-oxide | 201 | C11H7NOS | 094734-32-4 | 10 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP050520\
Data File : BP002248.D
Acq On : 05 May 2020 21:35
Operator : CG/JU
Sample : L2475-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

**Instrument :** BNA_P
**ClientSampleId :** FK-SF-03-009-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP050420.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

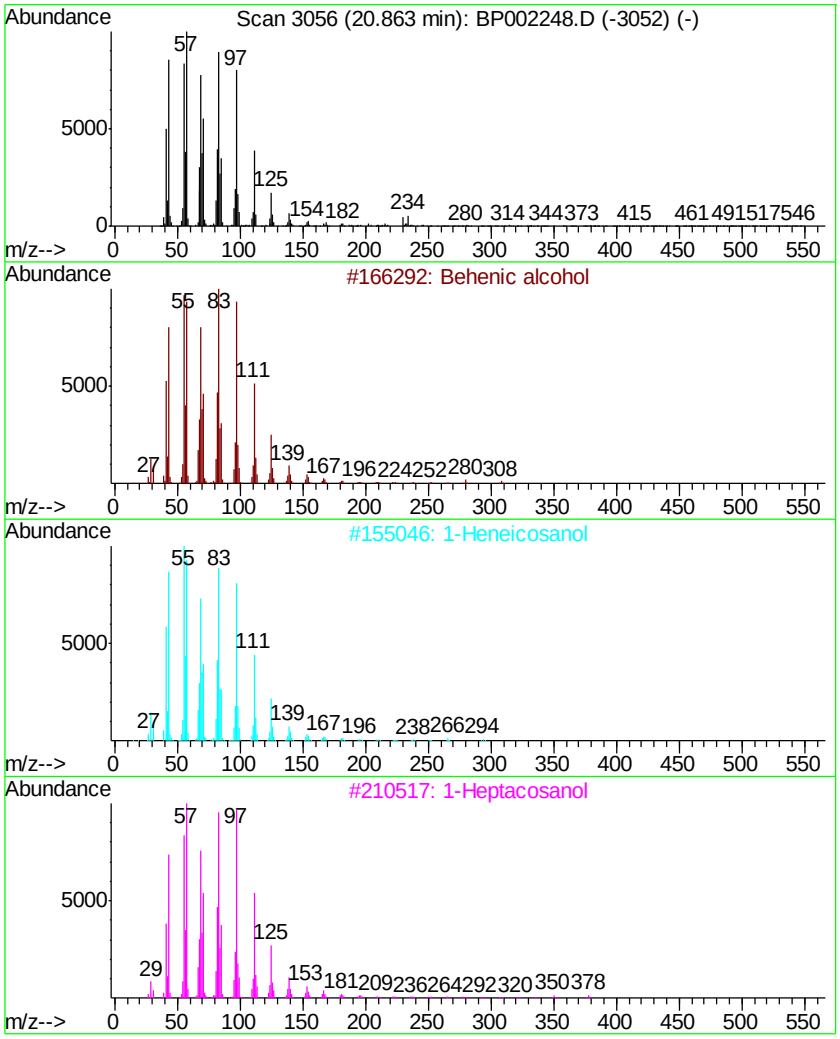
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

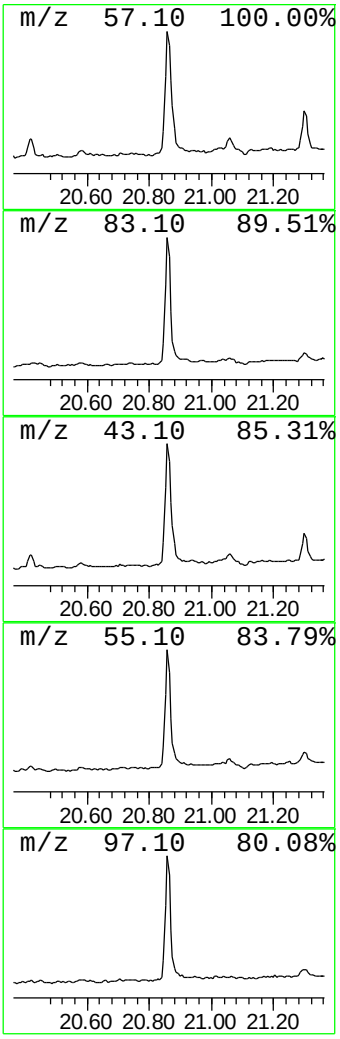
**********

Peak Number 7 Behenic alcohol Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.86 | 9.85 ng | 3159050 | Chrysene-d12 | 21.11 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Behenic alcohol | 326 | C22H46O | 000661-19-8 | 94 |
| 2 | 1-Heneicosanol | 312 | C21H44O | 015594-90-8 | 91 |
| 3 | 1-Heptacosanol | 396 | C27H56O | 002004-39-9 | 91 |
| 4 | 1-Heneicosyl formate | 340 | C22H44O2 | 077899-03-7 | 91 |
| 5 | Trifluoroacetoxy hexadecane | 338 | C18H33F3O2 | 006222-03-3 | 91 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP050520\
Data File : BP002248.D
Acq On : 05 May 2020 21:35
Operator : CG/JU
Sample : L2475-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

**Instrument :** BNA_P
**ClientSampleId :** FK-SF-03-009-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP050420.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

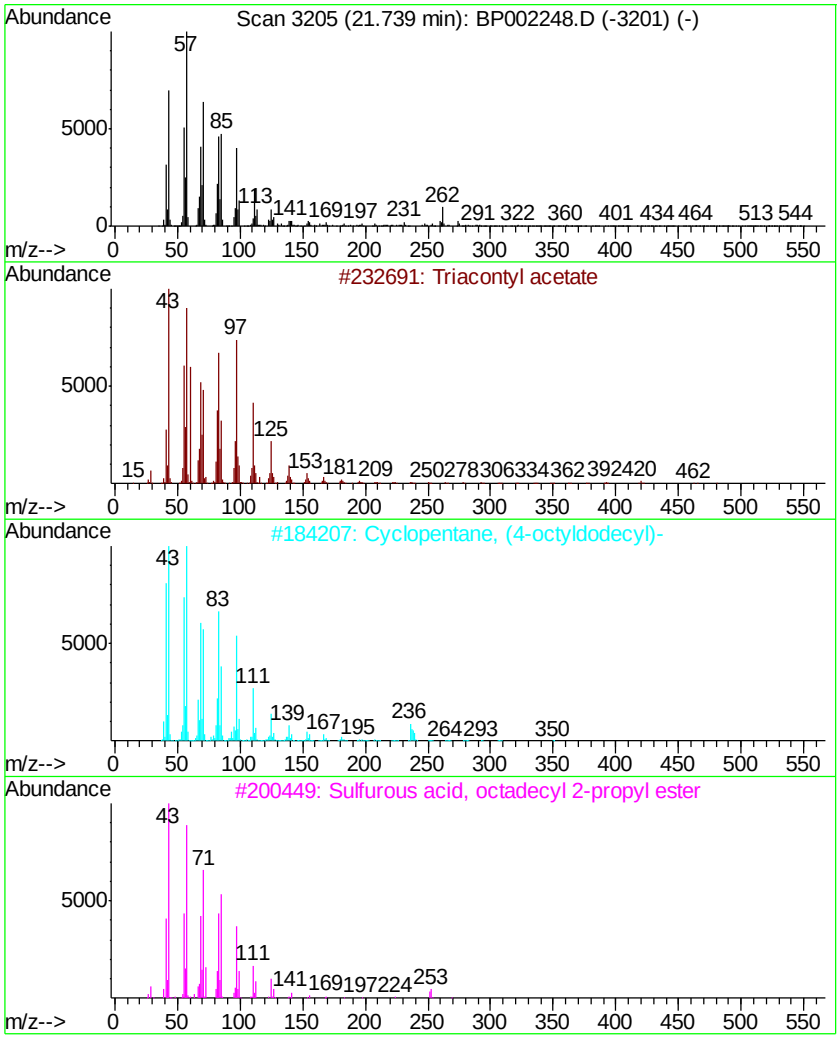
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

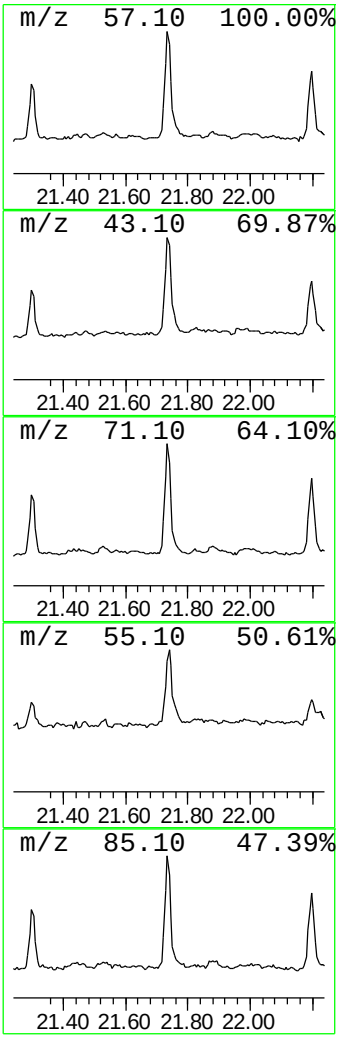
**********

Peak Number 8 Triacontyl acetate Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 21.74 | 3.64 ng | 1165940 | Chrysene-d12 | 21.11 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Triacontyl acetate | 480 | C32H64O2 | 041755-58-2 | 94 |
| 2 | Cyclopentane, (4-octyldodecyl)- | 350 | C25H50 | 005638-09-5 | 90 |
| 3 | Sulfurous acid, octadecyl 2-prop... | 376 | C21H44O3S | 1000309-12-7 | 87 |
| 4 | Oxalic acid, isobutyl hexadecyl ... | 370 | C22H42O4 | 1000309-38-1 | 87 |
| 5 | Oxalic acid, isobutyl octadecyl ... | 398 | C24H46O4 | 1000309-38-3 | 83 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_P\DATA\BP050520\
Data File : BP002248.D
Acq On : 05 May 2020 21:35
Operator : CG/JU
Sample : L2475-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

**Instrument :** BNA_P
**ClientSampleId :** FK-SF-03-009-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP050420.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 |
| Butane, 2-methoxy... | 2.92 | 2.5 | ng | 292034 | 1 | 7.62 | 2306480 | 20.0 |
| n-Hexadecanoic acid | 17.95 | 9.7 | ng | 2628420 | 4 | 17.01 | 5412520 | 20.0 |
| 4H-Cyclopenta[def... | 18.07 | 2.4 | ng | 661371 | 4 | 17.01 | 5412520 | 20.0 |
| Octadecanoic acid | 19.19 | 4.4 | ng | 1401770 | 5 | 21.11 | 6414930 | 20.0 |
| Dodecanoic acid, ... | 20.28 | 2.8 | ng | 885811 | 5 | 21.11 | 6414930 | 20.0 |
| Behenic alcohol | 20.86 | 9.8 | ng | 3159050 | 5 | 21.11 | 6414930 | 20.0 |
| Triacontyl acetate | 21.74 | 3.6 | ng | 1165940 | 5 | 21.11 | 6414930 | 20.0 |