LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF011918\
Data File : BF102233.D
Acq On : 19 Jan 2018 22:51
Operator : SJ/JU
Sample : J1189-04
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 22C-2

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-BF010918.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 | 2.440 | 54 | 60 | 70 | rVB | 318417 | 487364 | 4.88% | 0.916% |
| 2 | 3.699 | 266 | 274 | 279 | rVB2 | 90672 | 139189 | 1.39% | 0.262% |
| 3 | 4.922 | 475 | 482 | 489 | rBV | 445809 | 667411 | 6.69% | 1.254% |
| 4 | 5.181 | 523 | 526 | 531 | rBV | 292057 | 274461 | 2.75% | 0.516% |
| 5 | 5.293 | 541 | 545 | 549 | rBV | 1188302 | 1369468 | 13.72% | 2.574% |
| 6 | 5.340 | 549 | 553 | 556 | rVB | 2839036 | 3067581 | 30.74% | 5.765% |
| 7 | 5.557 | 586 | 590 | 594 | rBV | 1051503 | 920894 | 9.23% | 1.731% |
| 8 | 5.663 | 603 | 608 | 613 | rBV | 398982 | 376698 | 3.77% | 0.708% |
| 9 | 5.957 | 655 | 658 | 664 | rVB | 165827 | 146765 | 1.47% | 0.276% |
| 10 | 6.240 | 703 | 706 | 709 | rVB | 163432 | 123960 | 1.24% | 0.233% |
| 11 | 6.316 | 715 | 719 | 722 | rBV | 129411 | 111418 | 1.12% | 0.209% |
| 12 | 6.369 | 722 | 728 | 731 | rVV | 2901418 | 3362037 | 33.69% | 6.318% |
| 13 | 6.493 | 744 | 749 | 752 | rBV | 3476539 | 3206405 | 32.13% | 6.026% |
| 14 | 6.545 | 754 | 758 | 762 | rVB2 | 266168 | 257983 | 2.59% | 0.485% |
| 15 | 6.722 | 784 | 788 | 791 | rBV | 1012992 | 843933 | 8.46% | 1.586% |
| 16 | 6.781 | 794 | 798 | 805 | rVB2 | 160008 | 198815 | 1.99% | 0.374% |
| 17 | 6.875 | 810 | 814 | 817 | rBV | 2858806 | 2578839 | 25.84% | 4.846% |
| 18 | 7.257 | 876 | 879 | 880 | rBV | 129853 | 105860 | 1.06% | 0.199% |
| 19 | 7.287 | 880 | 884 | 887 | rVB | 2014624 | 2030884 | 20.35% | 3.816% |
| 20 | 7.540 | 924 | 927 | 931 | rVB | 303121 | 242018 | 2.43% | 0.455% |
| 21 | 7.745 | 954 | 962 | 965 | rBV3 | 191565 | 222982 | 2.23% | 0.419% |
| 22 | 7.904 | 986 | 989 | 993 | rBV | 349465 | 309217 | 3.10% | 0.581% |
| 23 | 8.004 | 1000 | 1006 | 1008 | rBV | 1191059 | 1084698 | 10.87% | 2.038% |
| 24 | 8.292 | 1049 | 1055 | 1061 | rBV2 | 75440 | 128396 | 1.29% | 0.241% |
| 25 | 8.775 | 1133 | 1137 | 1149 | rBV | 253911 | 343042 | 3.44% | 0.645% |
| 26 | 9.081 | 1183 | 1189 | 1192 | rBV | 3769097 | 3537563 | 35.45% | 6.648% |
| 27 | 9.475 | 1252 | 1256 | 1259 | rBV | 521021 | 424567 | 4.25% | 0.798% |
| 28 | 9.598 | 1274 | 1277 | 1284 | rVB | 361670 | 310524 | 3.11% | 0.584% |
| 29 | 9.686 | 1288 | 1292 | 1295 | rBV | 142825 | 110221 | 1.10% | 0.207% |
| 30 | 9.757 | 1300 | 1304 | 1307 | rVB | 1124588 | 1024197 | 10.26% | 1.925% |
| 31 | 10.186 | 1374 | 1377 | 1379 | rVB | 184376 | 146419 | 1.47% | 0.275% |
| 32 | 10.404 | 1409 | 1414 | 1419 | rBV | 145230 | 154057 | 1.54% | 0.290% |
| 33 | 10.545 | 1432 | 1438 | 1441 | rBV | 1684327 | 1545078 | 15.48% | 2.904% |
| 34 | 10.598 | 1444 | 1447 | 1454 | rVB | 117164 | 123300 | 1.24% | 0.232% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF011918\
Data File : BF102233.D
Acq On : 19 Jan 2018 22:51
Operator : SJ/JU
Sample : J1189-04
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 22C-2

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-BF010918.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 10.657 | 1454 | 1457 | 1462 | rBV2 | 234790 | 252258 | 2.53% | 0.474% |
| 36 | 10.792 | 1476 | 1480 | 1485 | rBV | 419894 | 323888 | 3.25% | 0.609% |
| 37 | 11.239 | 1552 | 1556 | 1559 | rBV | 963584 | 837364 | 8.39% | 1.574% |
| 38 | 11.816 | 1648 | 1654 | 1657 | rVB | 5035800 | 5557528 | 55.69% | 10.444% |
| 39 | 11.939 | 1671 | 1675 | 1678 | rBV3 | 97337 | 100150 | 1.00% | 0.188% |
| 40 | 12.827 | 1821 | 1826 | 1829 | rBV | 2323439 | 2250767 | 22.56% | 4.230% |
| 41 | 13.304 | 1903 | 1907 | 1910 | rBV | 2514252 | 2170846 | 21.75% | 4.079% |
| 42 | 13.498 | 1938 | 1940 | 1944 | rVB | 237953 | 180162 | 1.81% | 0.339% |
| 43 | 13.716 | 1973 | 1977 | 1980 | rBV3 | 201536 | 280682 | 2.81% | 0.527% |
| 44 | 13.874 | 1998 | 2004 | 2007 | rBV | 6519423 | 9978864 | 100.00% | 18.752% |
| 45 | 15.298 | 2242 | 2246 | 2254 | rVB2 | 655573 | 792185 | 7.94% | 1.489% |
| 46 | 18.021 | 2704 | 2709 | 2718 | rVB4 | 202917 | 512839 | 5.14% | 0.964% |

Sum of corrected areas: 53213777

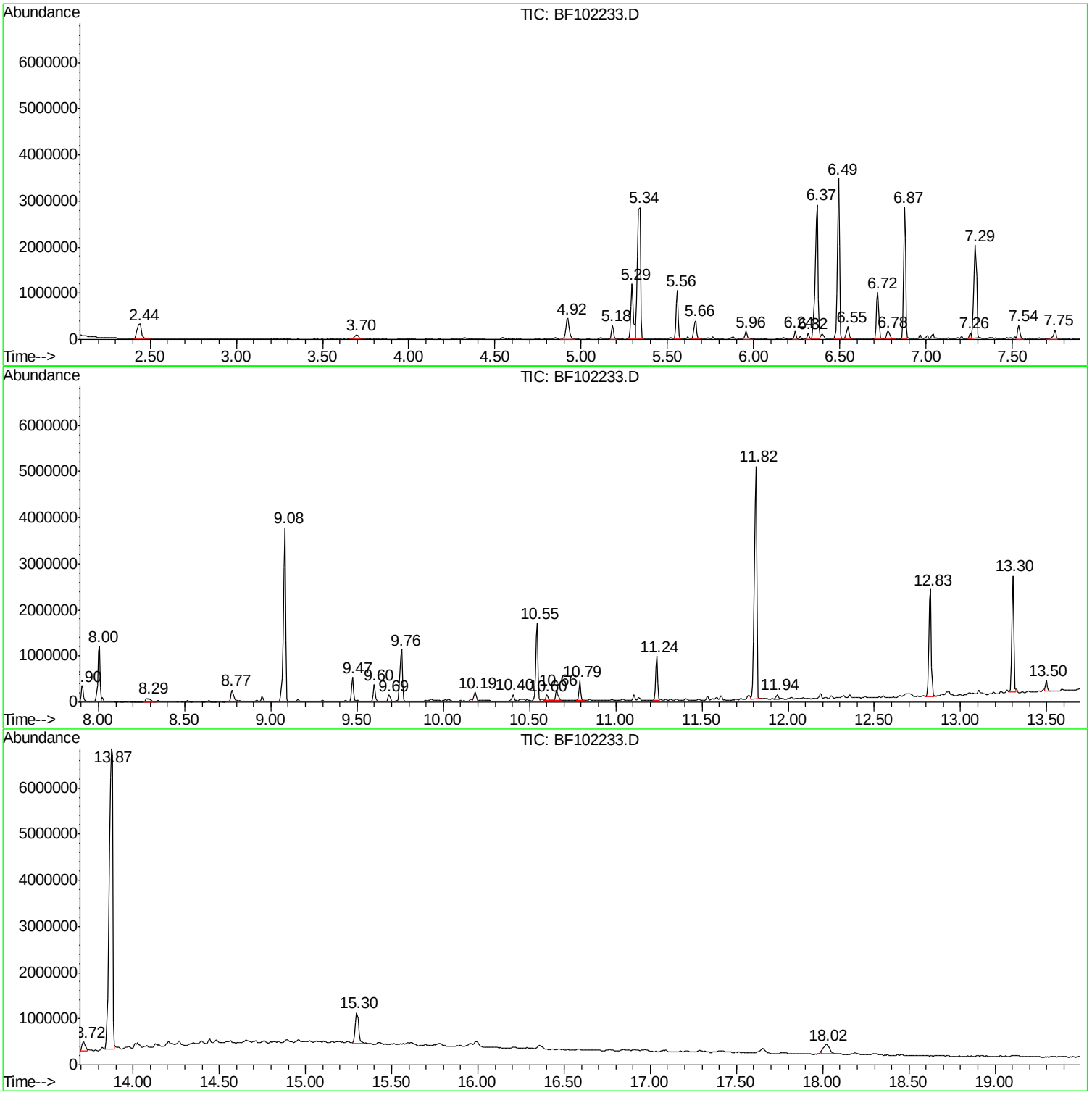
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA F\DATA\BF011918\
Data File : BF102233.D
Acq On : 19 Jan 2018 22:51
Operator : SJ/JU
Sample : J1189-04
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 22C-2

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF010918.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\BF011918\
Data File : BF102233.D
Acq On : 19 Jan 2018 22:51
Operator : SJ/JU
Sample : J1189-04
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 22C-2

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF010918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

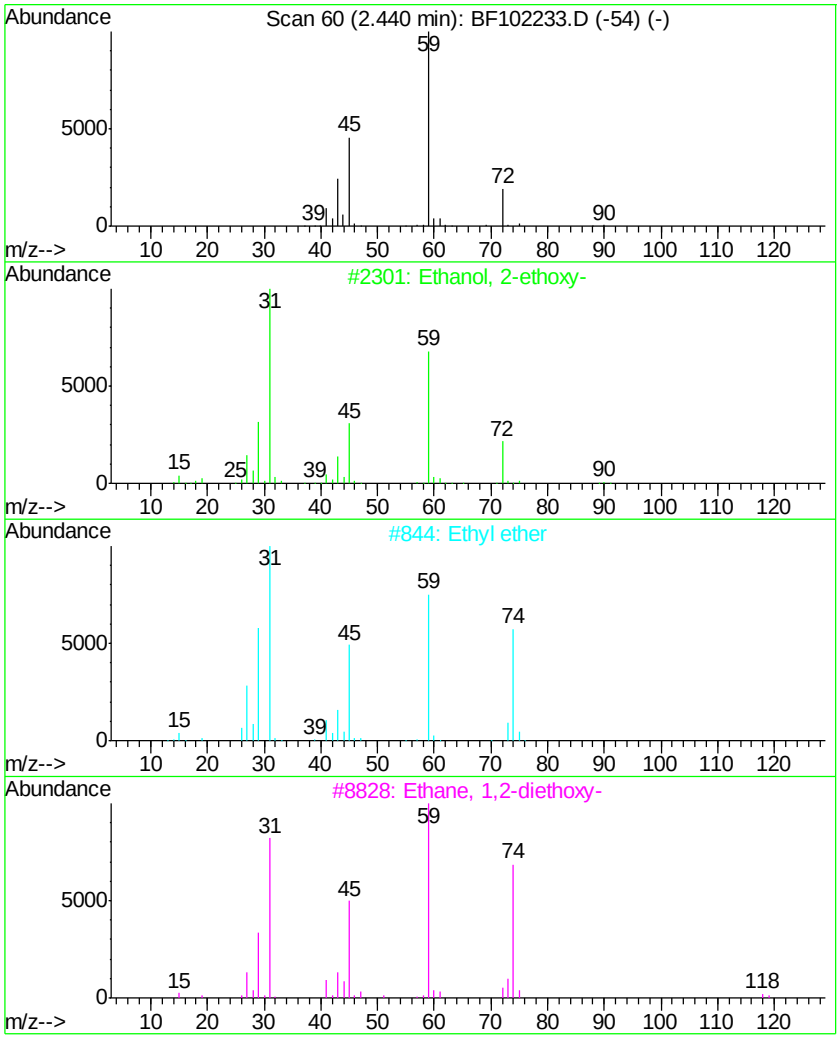
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

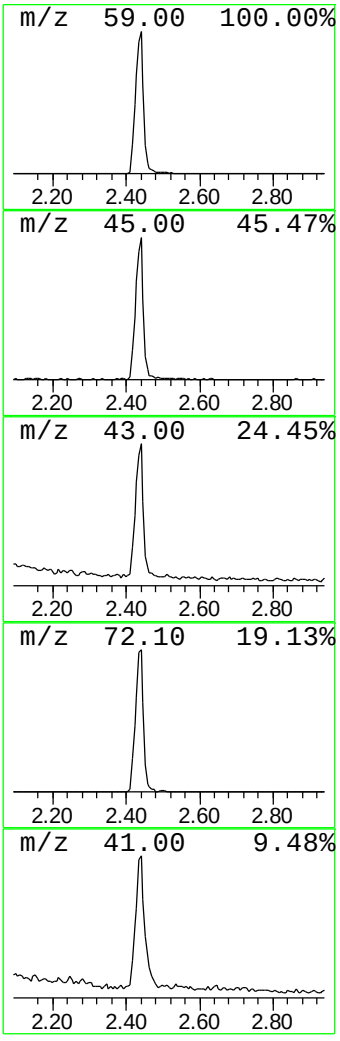
**********

Peak Number 1 Ethanol, 2-ethoxy- Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 2.44 | 11.55 ng | 487364 | 1,4-Dichlorobenzene-d4 | 6.72 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Ethanol, 2-ethoxy- | 90 | C4H10O2 | 000110-80-5 | 83 |
| 2 | Ethyl ether | 74 | C4H10O | 000060-29-7 | 50 |
| 3 | Ethane, 1,2-diethoxy- | 118 | C6H14O2 | 000629-14-1 | 50 |
| 4 | Hexanamide | 115 | C6H13NO | 000628-02-4 | 33 |
| 5 | 1,2-Butanediol | 90 | C4H10O2 | 000584-03-2 | 9 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF011918\
Data File : BF102233.D
Acq On : 19 Jan 2018 22:51
Operator : SJ/JU
Sample : J1189-04
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 22C-2

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF010918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

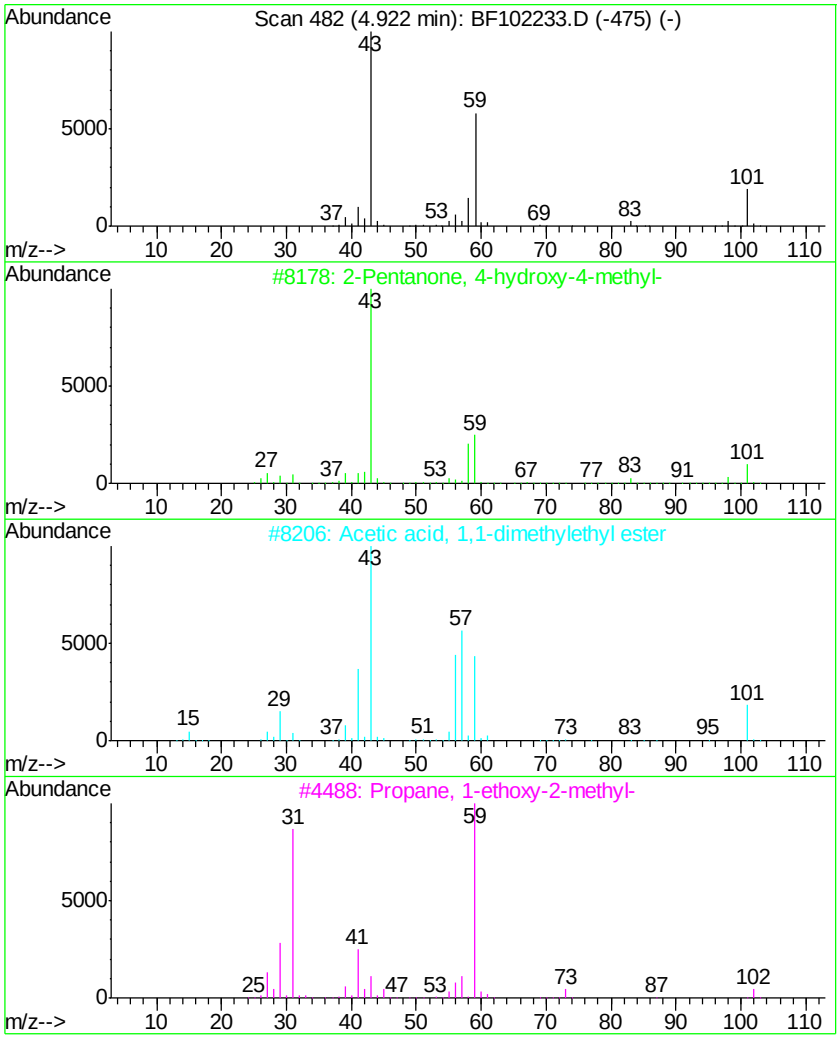
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

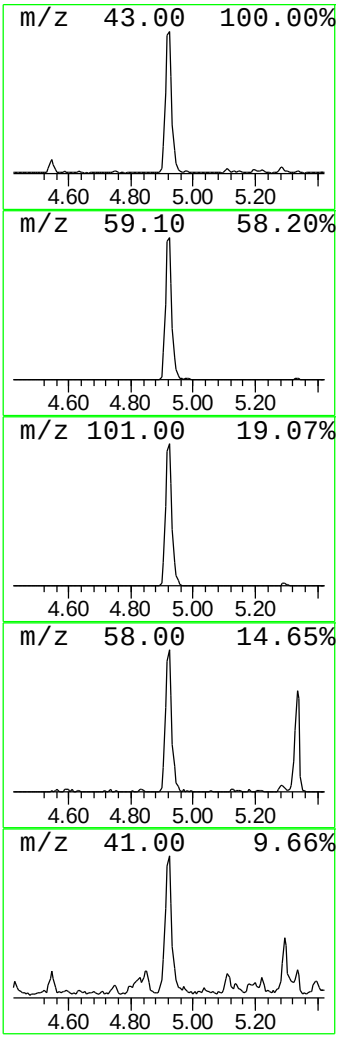
**********

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

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.92 | 15.82 ng | 667411 | 1,4-Dichlorobenzene-d4 | 6.72 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 64 |
| 2 | Acetic acid, 1,1-dimethylethyl e... | 116 | C6H12O2 | 000540-88-5 | 39 |
| 3 | Propane, 1-ethoxy-2-methyl- | 102 | C6H14O | 000627-02-1 | 38 |
| 4 | 1,3-Dioxolane-2-methanol, 2,4-di... | 132 | C6H12O3 | 053951-43-2 | 28 |
| 5 | Acetic acid, cyano-, 1,1-dimethy... | 141 | C7H11NO2 | 001116-98-9 | 23 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF011918\
Data File : BF102233.D
Acq On : 19 Jan 2018 22:51
Operator : SJ/JU
Sample : J1189-04
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 22C-2

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF010918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

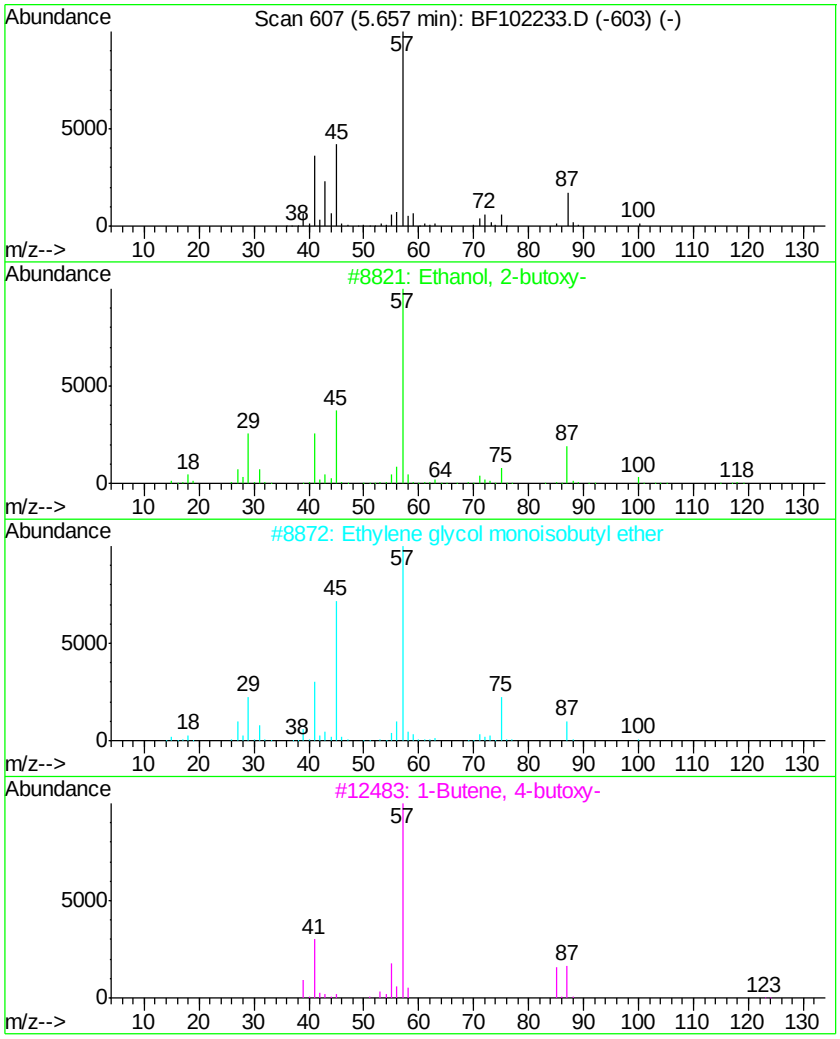
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

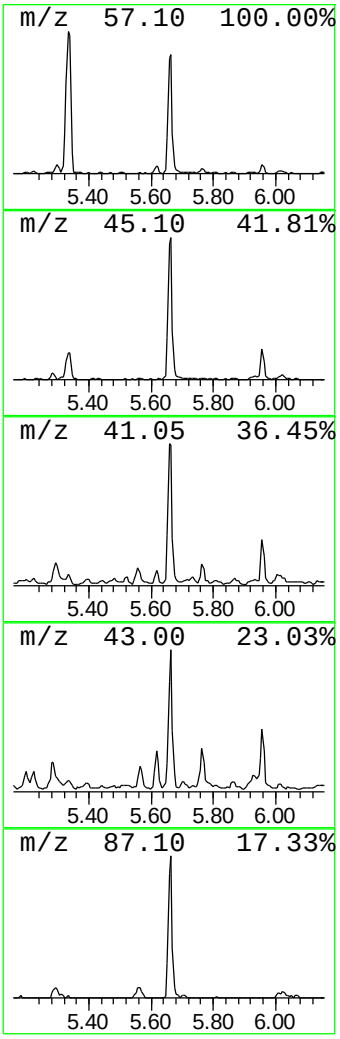
**********

Peak Number 6 Ethanol, 2-butoxy- Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.66 | 8.93 ng | 376698 | 1,4-Dichlorobenzene-d4 | 6.72 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Ethanol, 2-butoxy- | 118 | C6H14O2 | 000111-76-2 | 64 |
| 2 | Ethylene glycol monoisobutyl ether | 118 | C6H14O2 | 004439-24-1 | 42 |
| 3 | 1-Butene, 4-butoxy- | 128 | C8H16O | 034061-76-2 | 12 |
| 4 | 1,3-Propanediol, 2-methyl-, dipr... | 202 | C10H18O4 | 054932-83-1 | 12 |
| 5 | Propanoic acid, 2-hydroxyethyl e... | 118 | C5H10O3 | 024567-27-9 | 12 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF011918\
Data File : BF102233.D
Acq On : 19 Jan 2018 22:51
Operator : SJ/JU
Sample : J1189-04
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 22C-2

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF010918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

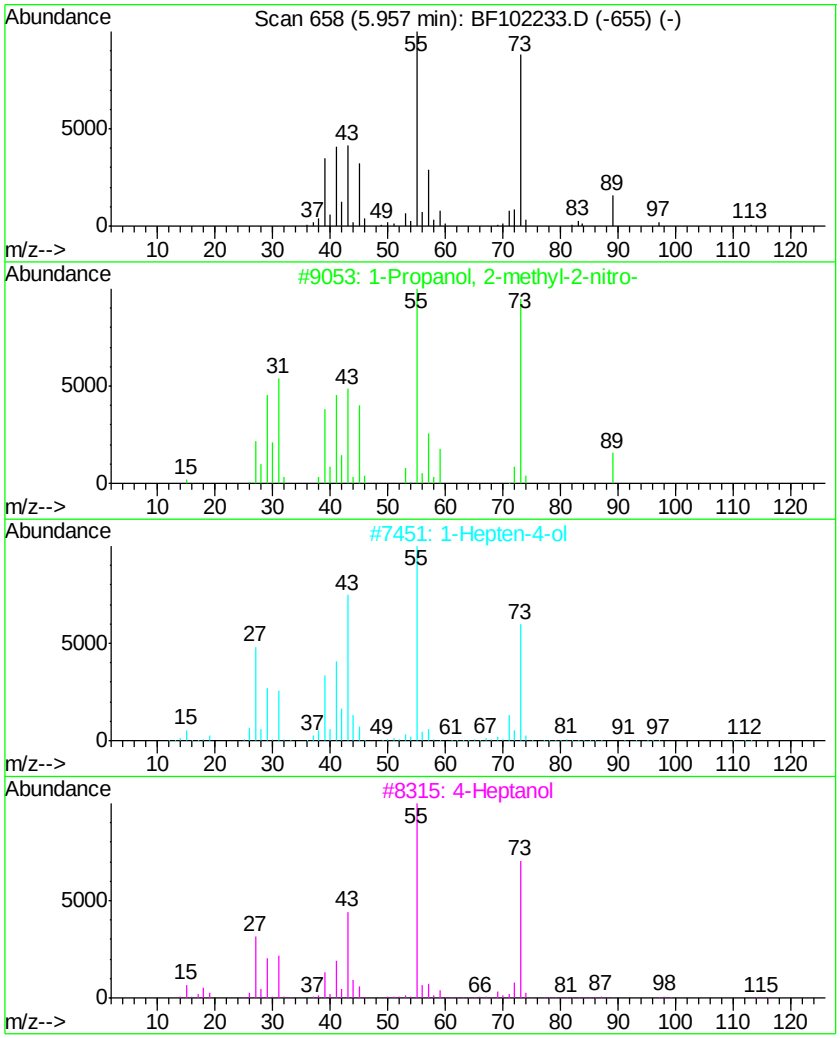
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

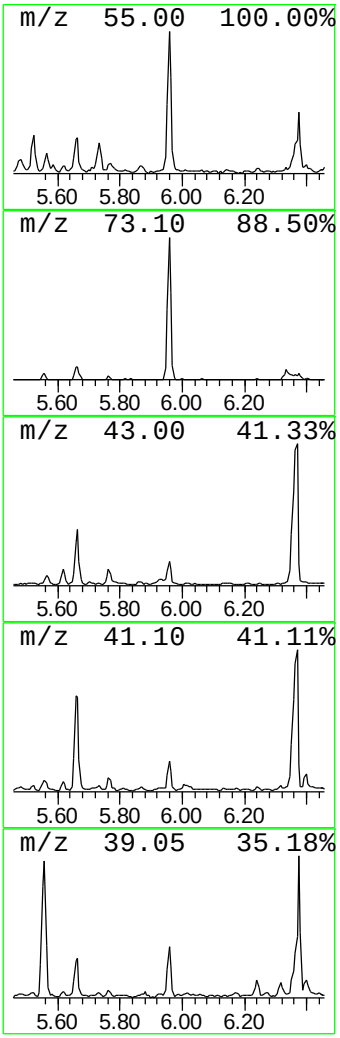
**********

Peak Number 7 1-Propanol, 2-methyl-2-nitro- Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.96 | 3.48 ng | 146765 | 1,4-Dichlorobenzene-d4 | 6.72 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Propanol, 2-methyl-2-nitro- | 119 | C4H9NO3 | 000076-39-1 | 78 |
| 2 | 1-Hepten-4-ol | 114 | C7H14O | 003521-91-3 | 47 |
| 3 | 4-Heptanol | 116 | C7H16O | 000589-55-9 | 37 |
| 4 | 3-Pentanol, 2,4-dimethyl- | 116 | C7H16O | 000600-36-2 | 35 |
| 5 | 1-Heptene, 5-methoxy-4-methyl- | 142 | C9H18O | 054004-21-6 | 32 |



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Data File : BF102233.D
Acq On : 19 Jan 2018 22:51
Operator : SJ/JU
Sample : J1189-04
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 22C-2

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF010918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

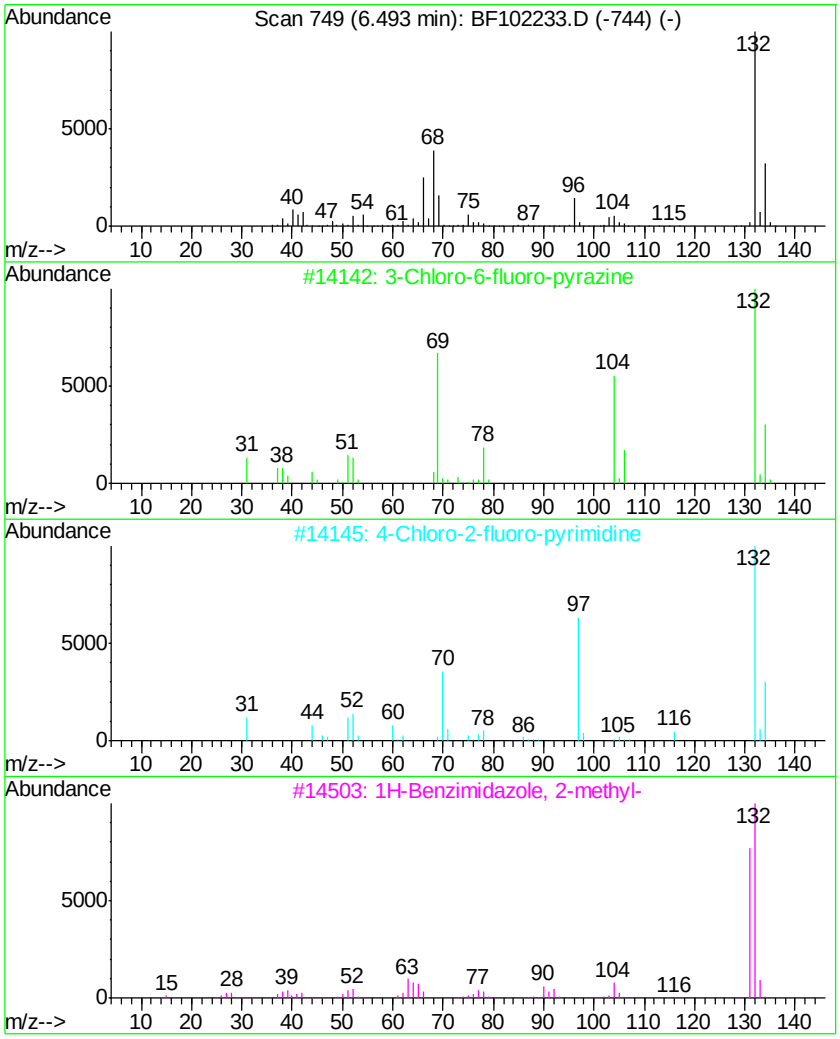
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

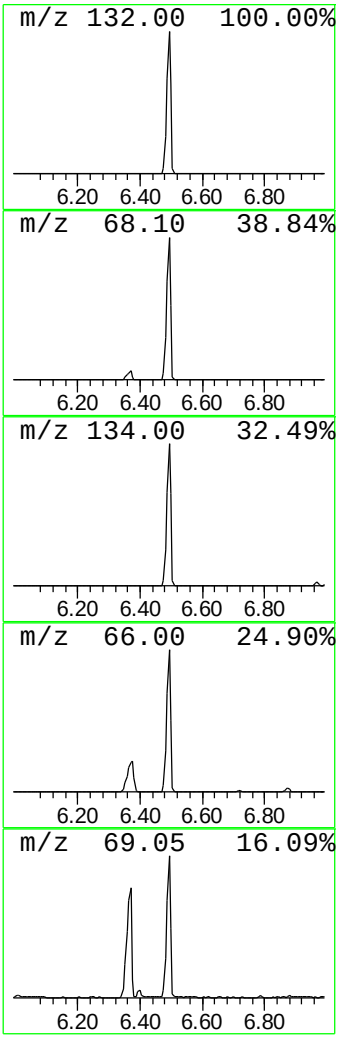
**********

Peak Number 8 unknown6.49 Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.49 | 75.99 ng | 3206410 | 1,4-Dichlorobenzene-d4 | 6.72 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Chloro-6-fluoro-pyrazine | 132 | C4H2ClFN2 | 1000146-10-7 | 27 |
| 2 | 4-Chloro-2-fluoro-pyrimidine | 132 | C4H2ClFN2 | 051422-00-5 | 9 |
| 3 | 1H-Benzimidazole, 2-methyl- | 132 | C8H8N2 | 000615-15-6 | 9 |
| 4 | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO | 031357-76-3 | 9 |
| 5 | 1-Methylpyrrolo[1,2-a]pyrazine | 132 | C8H8N2 | 064608-59-9 | 9 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF011918\
Data File : BF102233.D
Acq On : 19 Jan 2018 22:51
Operator : SJ/JU
Sample : J1189-04
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 22C-2

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF010918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

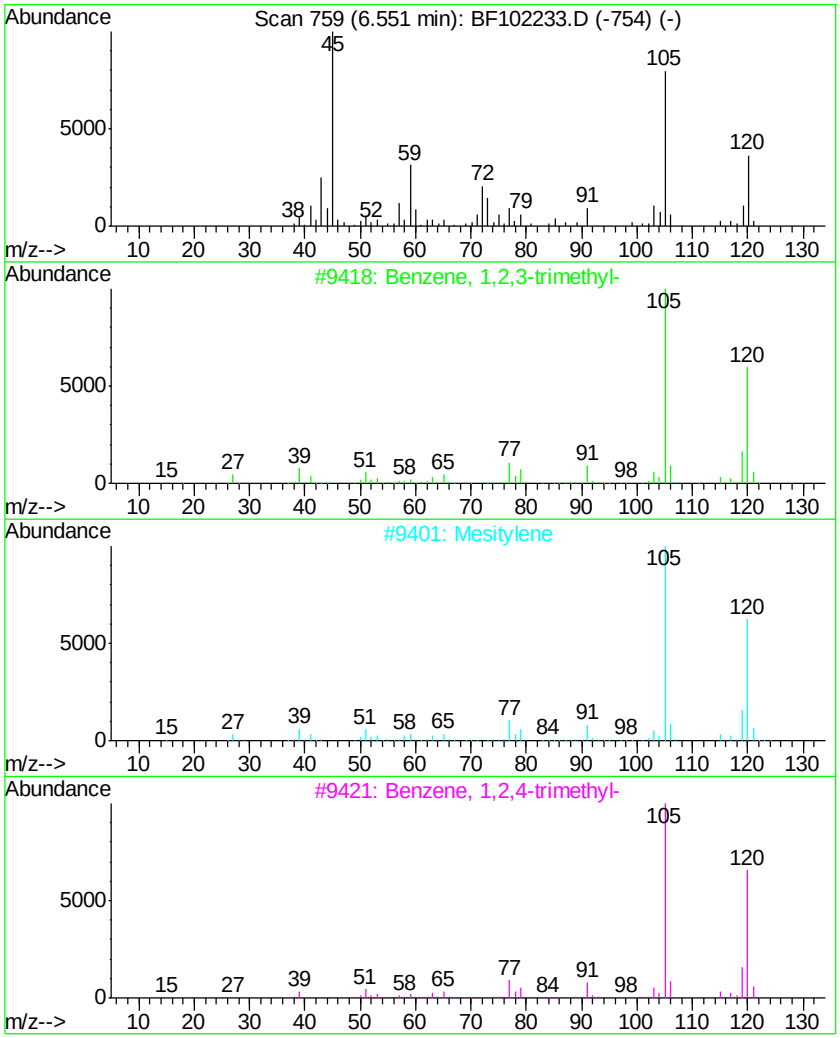
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

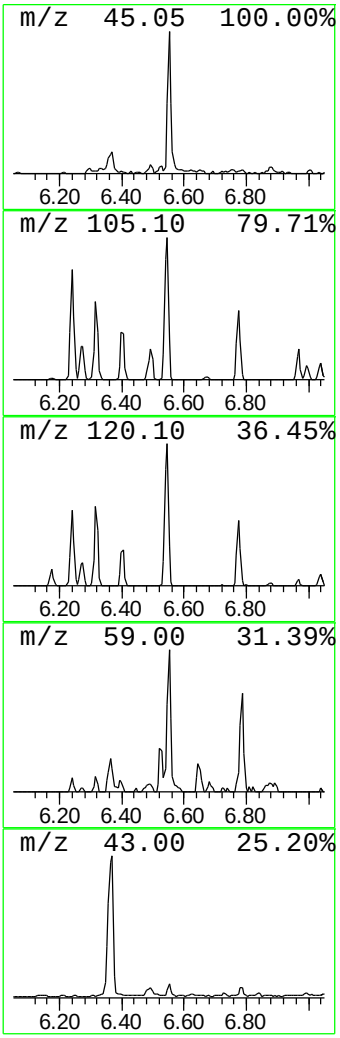
**********

Peak Number 9 Benzene, 1,2,3-trimethyl- Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.55 | 6.11 ng | 257983 | 1,4-Dichlorobenzene-d4 | 6.72 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1,2,3-trimethyl- | 120 | C9H12 | 000526-73-8 | 97 |
| 2 | Mesitylene | 120 | C9H12 | 000108-67-8 | 95 |
| 3 | Benzene, 1,2,4-trimethyl- | 120 | C9H12 | 000095-63-6 | 94 |
| 4 | Benzene, 1-ethyl-3-methyl- | 120 | C9H12 | 000620-14-4 | 91 |
| 5 | Benzene, 1-ethyl-4-methyl- | 120 | C9H12 | 000622-96-8 | 91 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF011918\
Data File : BF102233.D
Acq On : 19 Jan 2018 22:51
Operator : SJ/JU
Sample : J1189-04
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 22C-2

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF010918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

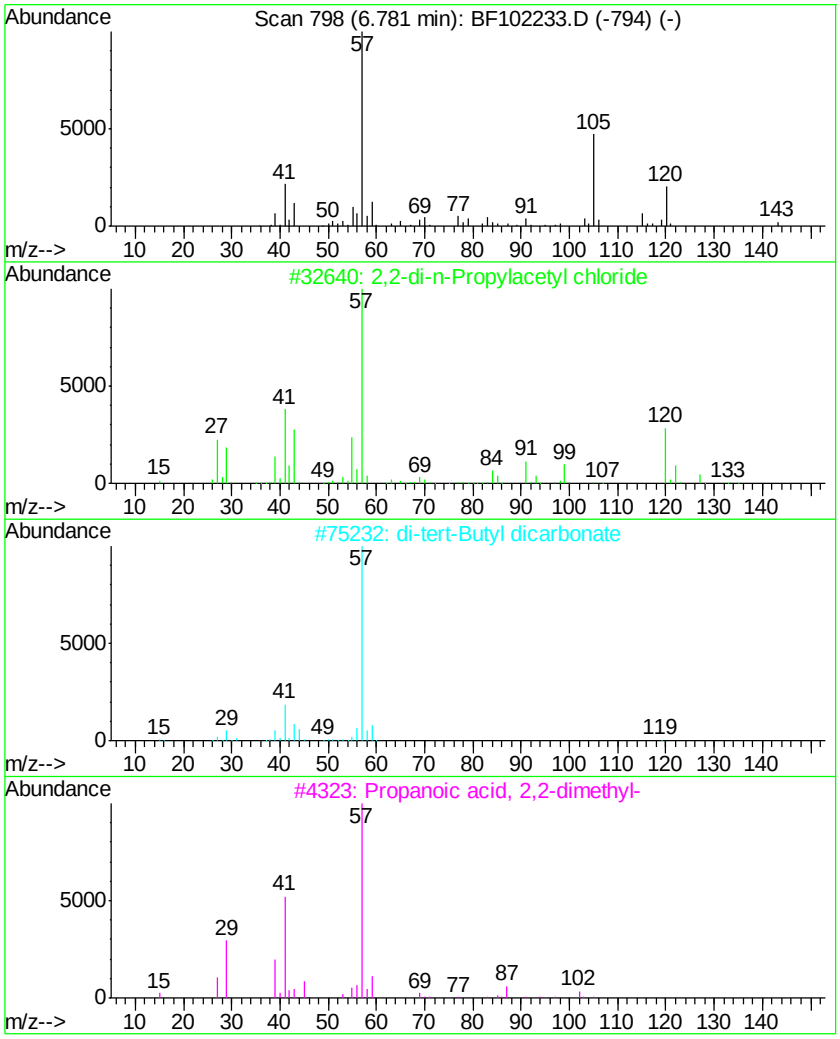
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

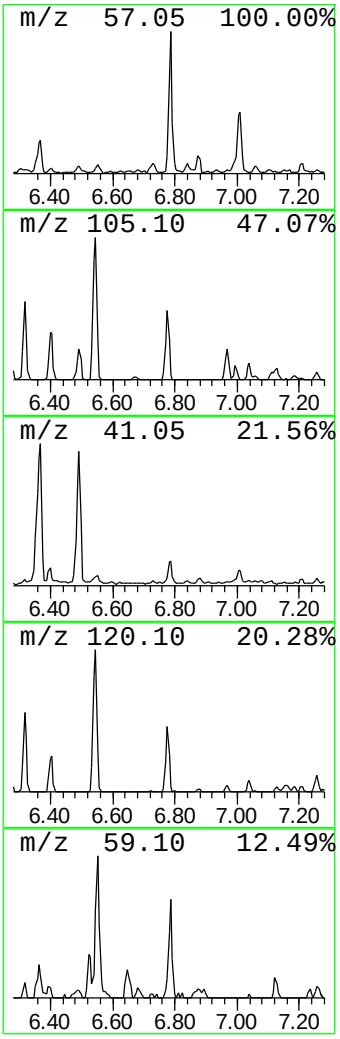
**********

Peak Number 10 unknown6.78 Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.78 | 4.71 ng | 198815 | 1,4-Dichlorobenzene-d4 | 6.72 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2,2-di-n-Propylacetyl chloride | 162 | C8H15ClO | 002936-08-5 | 23 |
| 2 | di-tert-Butyl dicarbonate | 218 | C10H18O5 | 024424-99-5 | 22 |
| 3 | Propanoic acid, 2,2-dimethyl- | 102 | C5H10O2 | 000075-98-9 | 12 |
| 4 | 4-Decene, 2,2-dimethyl-, (Z)- | 168 | C12H24 | 055499-03-1 | 10 |
| 5 | Propane, 1-(1,1-dimethylethoxy)-... | 144 | C9H20O | 032970-46-0 | 10 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF011918\
Data File : BF102233.D
Acq On : 19 Jan 2018 22:51
Operator : SJ/JU
Sample : J1189-04
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 22C-2

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF010918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

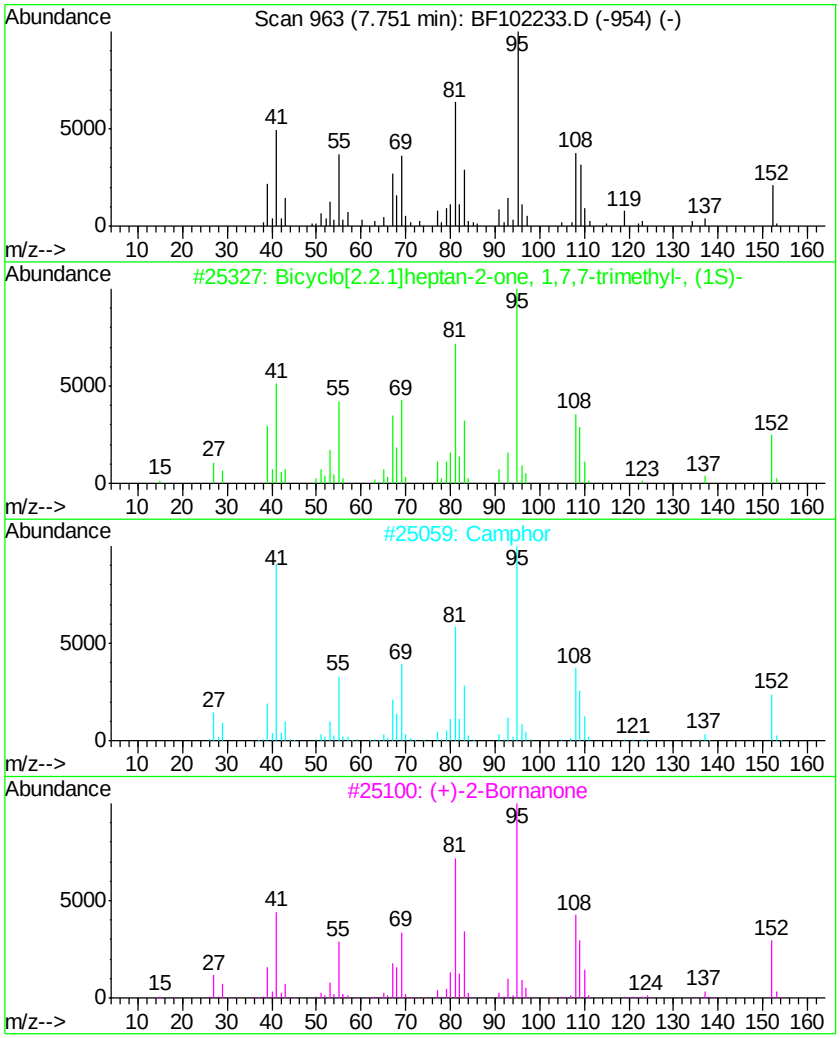
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

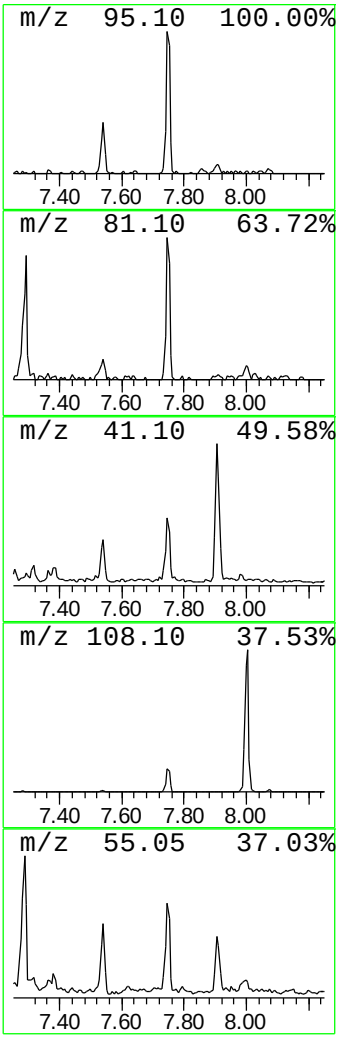
**********

Peak Number 12 Bicyclo[2.2.1]heptan-2-one,... Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.75 | 4.11 ng | 222982 | Naphthalene-d8 | 8.00 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Bicyclo[2.2.1]heptan-2-one, 1,7,... | 152 | C10H16O | 000464-48-2 | 96 |
| 2 | Camphor | 152 | C10H16O | 000076-22-2 | 94 |
| 3 | (+)-2-Bornanone | 152 | C10H16O | 000464-49-3 | 93 |
| 4 | 1-Adamantanol | 152 | C10H16O | 000768-95-6 | 38 |
| 5 | Ketone, 1,5-dimethylbicyclo[2.1.... | 138 | C9H14O | 024081-57-0 | 38 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF011918\
Data File : BF102233.D
Acq On : 19 Jan 2018 22:51
Operator : SJ/JU
Sample : J1189-04
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 22C-2

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF010918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

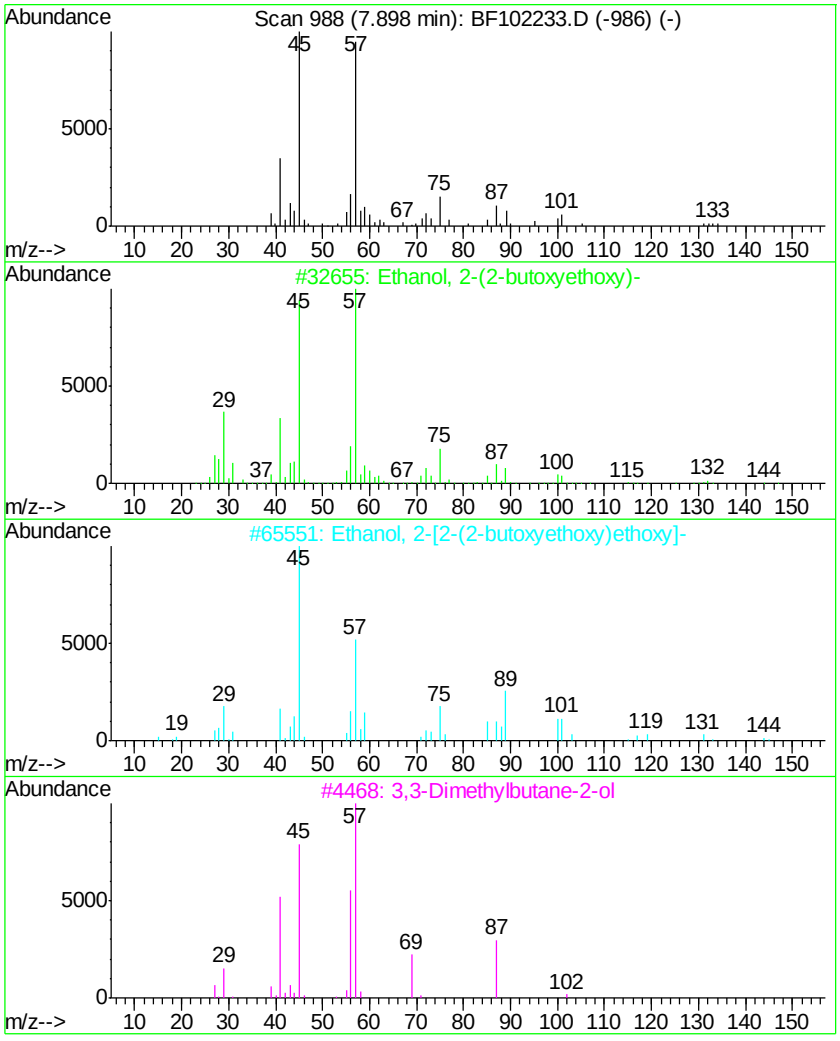
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

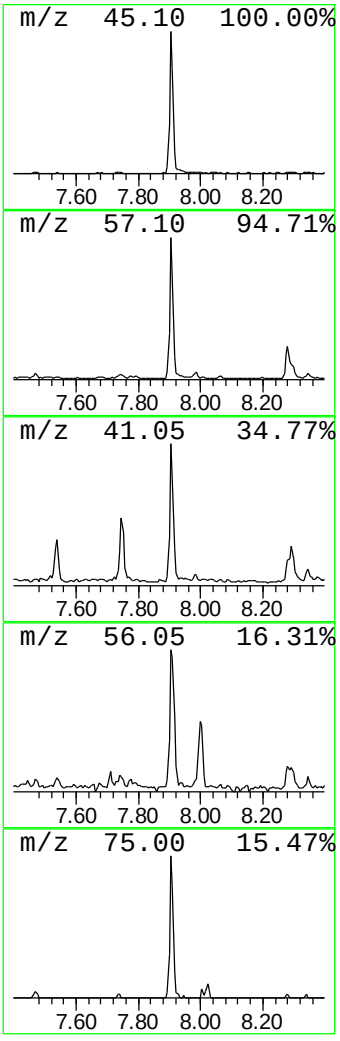
**********

Peak Number 13 Ethanol, 2-(2-butoxyethoxy)- Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.90 | 5.70 ng | 309217 | Naphthalene-d8 | 8.00 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Ethanol, 2-(2-butoxyethoxy)- | 162 | C8H18O3 | 000112-34-5 | 90 |
| 2 | Ethanol, 2-[2-(2-butoxyethoxy)et... | 206 | C10H22O4 | 000143-22-6 | 64 |
| 3 | 3,3-Dimethylbutane-2-ol | 102 | C6H14O | 000464-07-3 | 53 |
| 4 | Di-sec-butyl ether | 130 | C8H18O | 006863-58-7 | 53 |
| 5 | Propanoic acid, 2-(methoxymethoxy)- | 134 | C5H10O4 | 081327-29-9 | 50 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF011918\
Data File : BF102233.D
Acq On : 19 Jan 2018 22:51
Operator : SJ/JU
Sample : J1189-04
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 22C-2

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF010918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

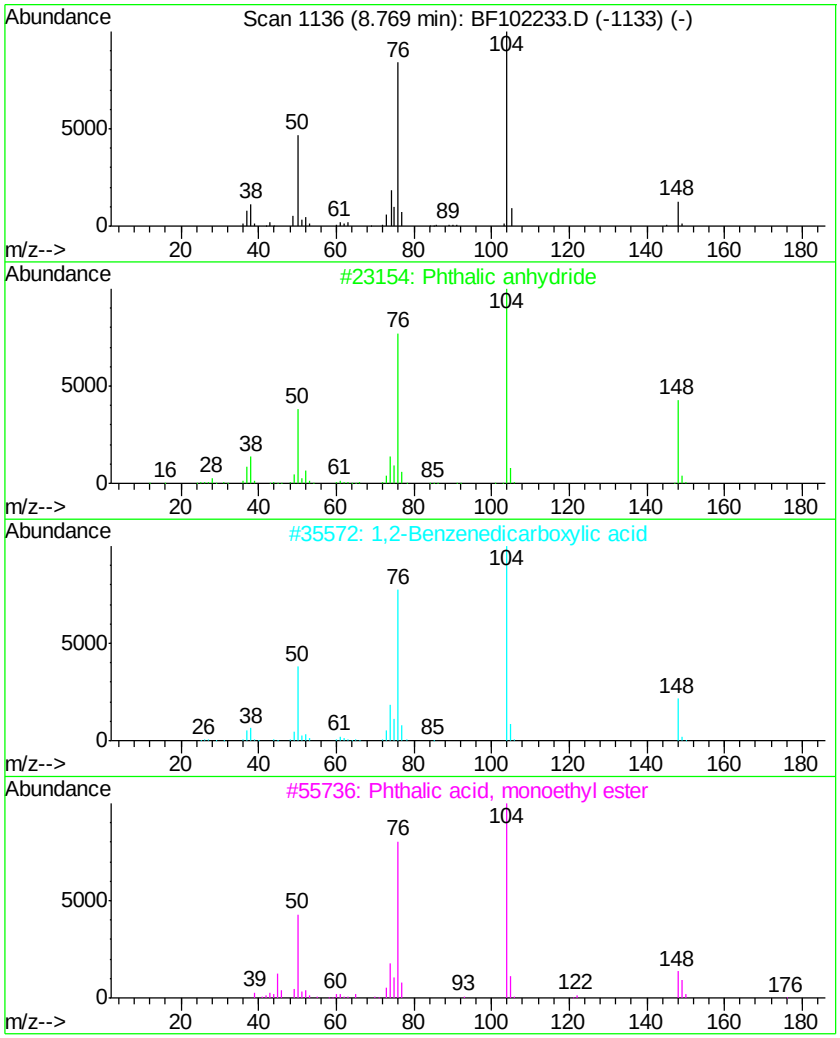
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

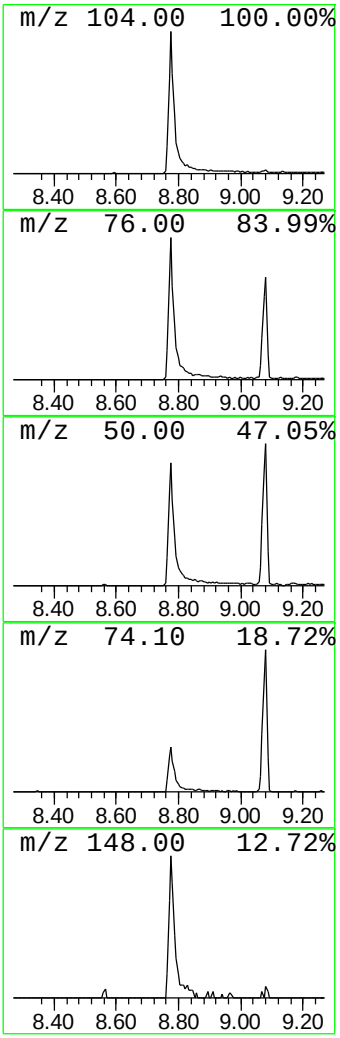
**********

Peak Number 14 Phthalic anhydride Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.77 | 6.33 ng | 343042 | Naphthalene-d8 | 8.00 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phthalic anhydride | 148 | C8H4O3 | 000085-44-9 | 94 |
| 2 | 1,2-Benzenedicarboxylic acid | 166 | C8H6O4 | 000088-99-3 | 91 |
| 3 | Phthalic acid, monoethyl ester | 194 | C10H10O4 | 002306-33-4 | 90 |
| 4 | Phthalamic acid | 165 | C8H7NO3 | 000088-97-1 | 83 |
| 5 | Bicyclo[4.2.0]octa-1,3,5-triene-... | 132 | C8H4O2 | 006383-11-5 | 78 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF011918\
Data File : BF102233.D
Acq On : 19 Jan 2018 22:51
Operator : SJ/JU
Sample : J1189-04
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 22C-2

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF010918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

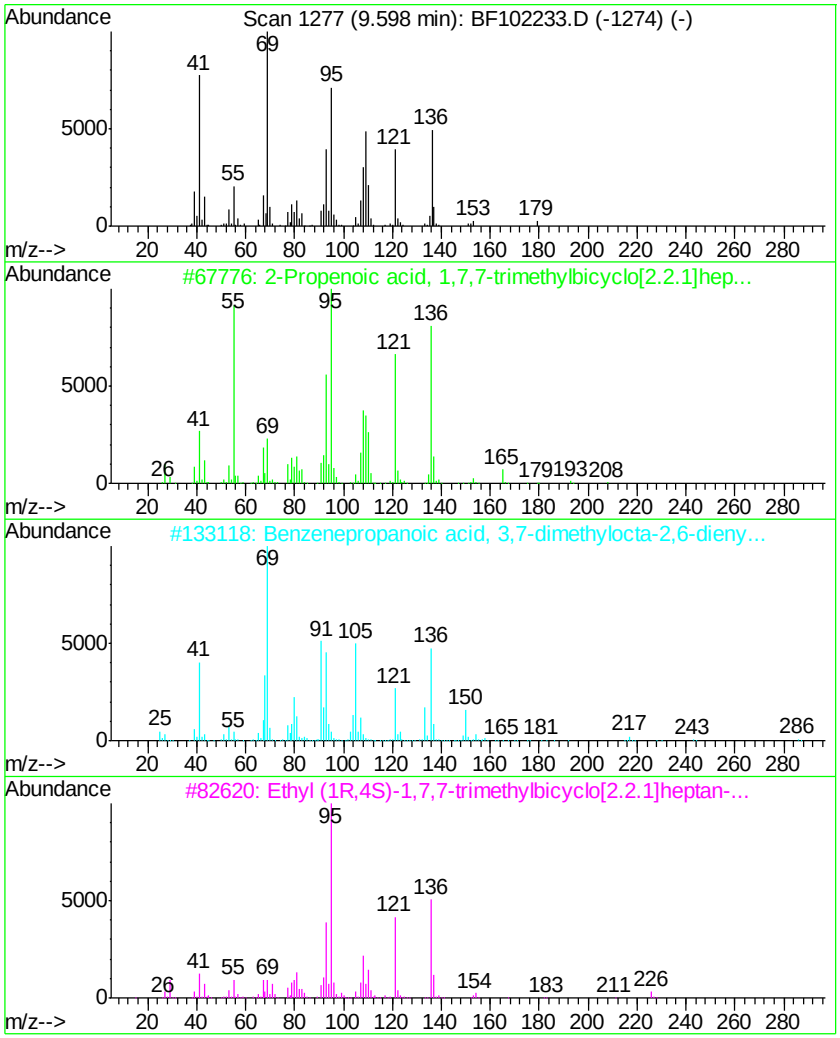
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

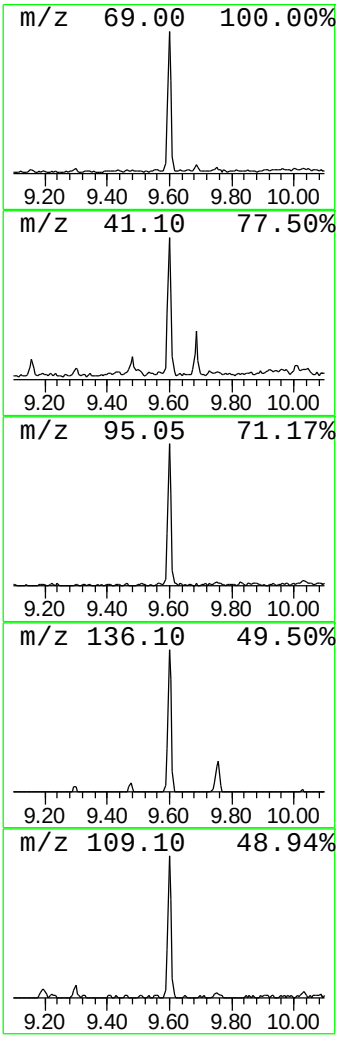
**********

Peak Number 15 2-Propenoic acid, 1,7,7-tri... Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.60 | 6.06 ng | 310524 | Acenaphthene-d10 | 9.76 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Propenoic acid, 1,7,7-trimethy... | 208 | C13H20O2 | 005888-33-5 | 58 |
| 2 | Benzenepropanoic acid, 3,7-dimet... | 286 | C19H26O2 | 074339-36-9 | 47 |
| 3 | Ethyl (1R,4S)-1,7,7-trimethylbic... | 226 | C13H22O3 | 1000373-77-2 | 46 |
| 4 | Isobornyl thiocyanoacetate | 253 | C13H19NO2S | 000115-31-1 | 46 |
| 5 | Isobornyl propionate | 210 | C13H22O2 | 002756-56-1 | 43 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF011918\
Data File : BF102233.D
Acq On : 19 Jan 2018 22:51
Operator : SJ/JU
Sample : J1189-04
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 22C-2

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF010918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

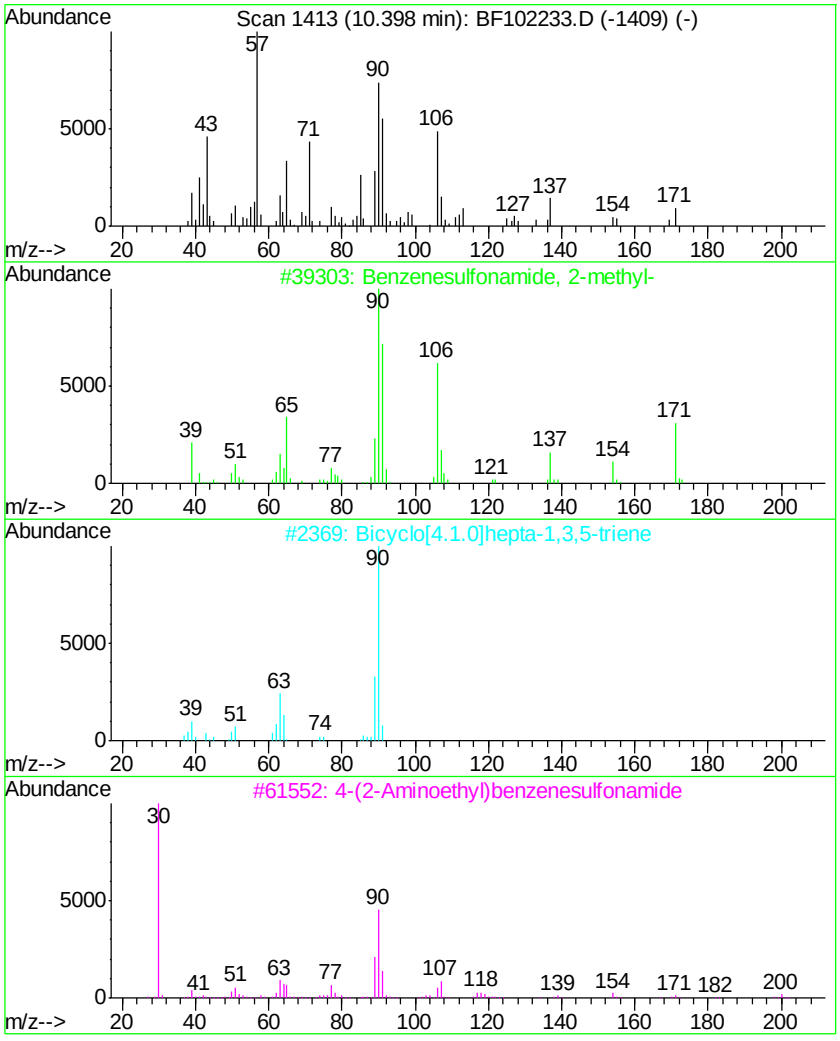
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

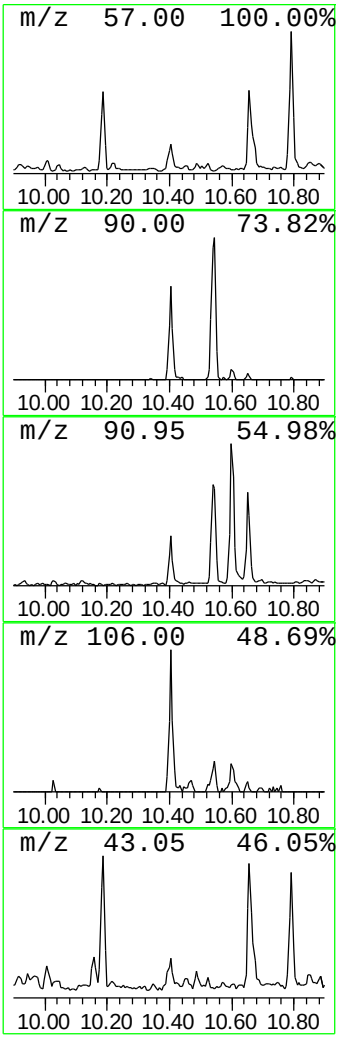
**********

Peak Number 16 Benzenesulfonamide, 2-methyl- Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.40 | 3.01 ng | 154057 | Acenaphthene-d10 | 9.76 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzenesulfonamide, 2-methyl- | 171 | C7H9NO2S | 000088-19-7 | 93 |
| 2 | Bicyclo[4.1.0]hepta-1,3,5-triene | 90 | C7H6 | 004646-69-9 | 43 |
| 3 | 4-(2-Aminoethyl)benzenesulfonamide | 200 | C8H12N2O2S | 035303-76-5 | 43 |
| 4 | Benzene, 1-methyl-4-nitro- | 137 | C7H7NO2 | 000099-99-0 | 25 |
| 5 | Benzyl cyanoformate | 161 | C9H7NO2 | 005532-86-5 | 23 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF011918\
Data File : BF102233.D
Acq On : 19 Jan 2018 22:51
Operator : SJ/JU
Sample : J1189-04
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 22C-2

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF010918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

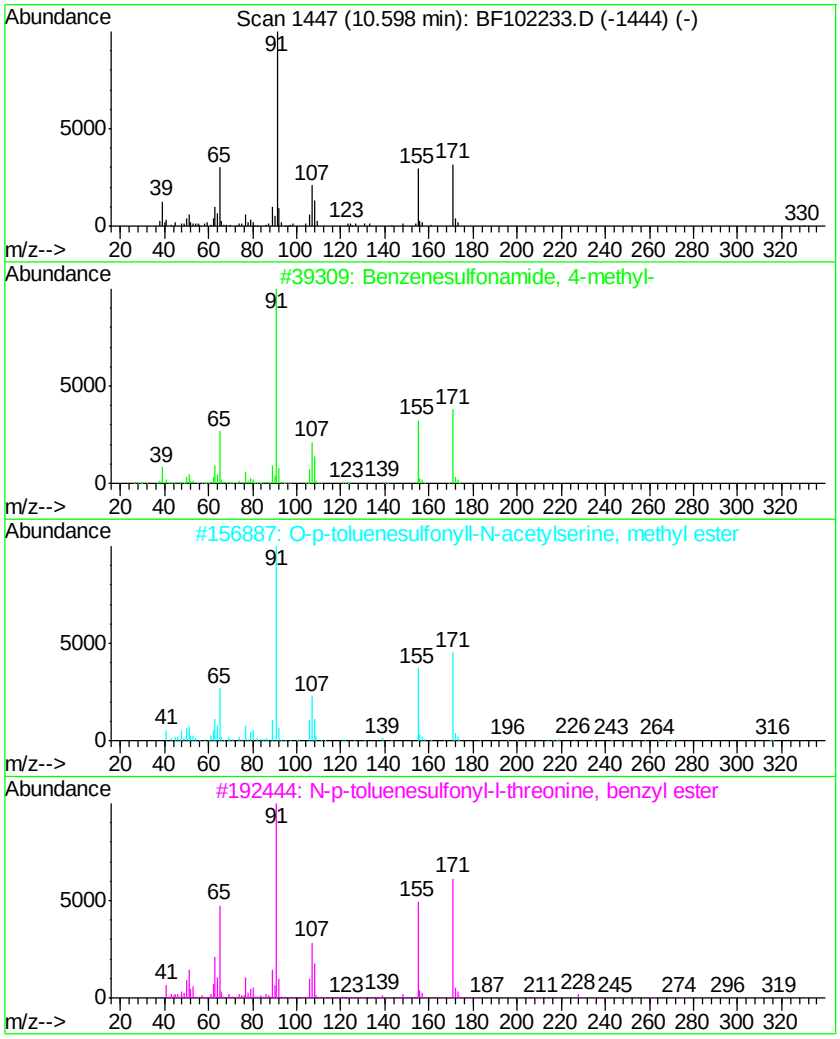
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

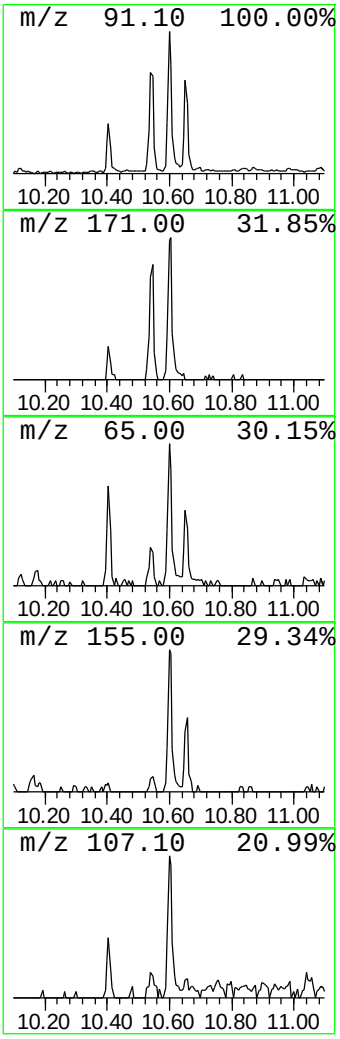
**********

Peak Number 17 Benzenesulfonamide, 4-methyl- Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.60 | 2.94 ng | 123300 | Phenanthrene-d10 | 11.24 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzenesulfonamide, 4-methyl- | 171 | C7H9NO2S | 000070-55-3 | 98 |
| 2 | O-p-toluenesulfonyll-N-acetylser... | 315 | C13H17NO6S | 1000126-44-8 | 87 |
| 3 | N-p-toluenesulfonyl-l-threonine,... | 363 | C18H21NO5S | 1000130-34-4 | 58 |
| 4 | Pyridine-2-carbonitrile, 3,5,6-t... | 375 | C13H8Cl3N3O2S | 255713-77-0 | 47 |
| 5 | 4-Toluenesulfonylmethyl isocyanide | 195 | C9H9NO2S | 036635-61-7 | 38 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF011918\
Data File : BF102233.D
Acq On : 19 Jan 2018 22:51
Operator : SJ/JU
Sample : J1189-04
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 22C-2

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF010918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

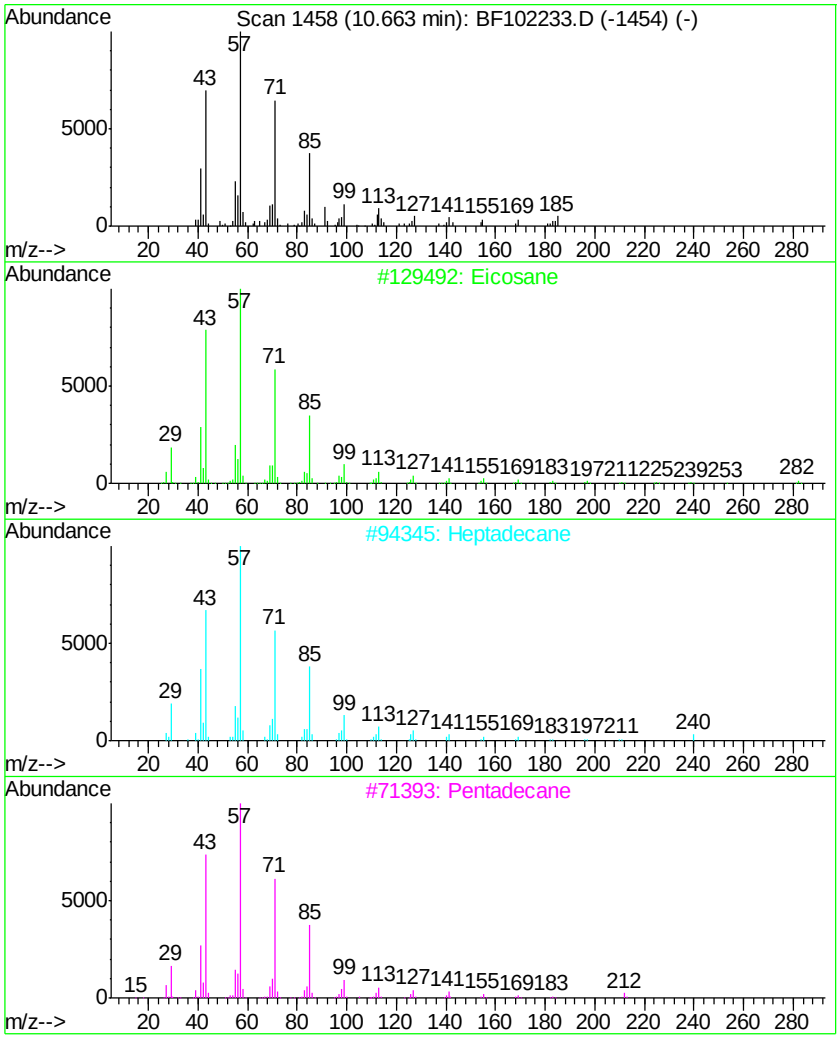
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

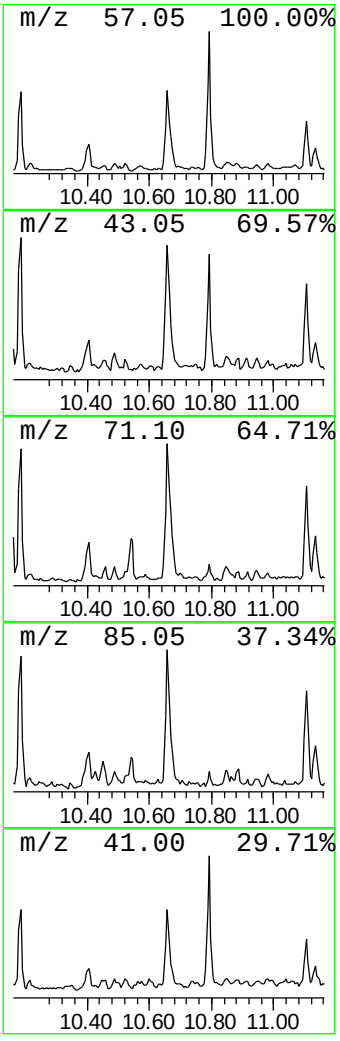
**********

Peak Number 18 Eicosane Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.66 | 6.03 ng | 252258 | Phenanthrene-d10 | 11.24 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Eicosane | 282 | C20H42 | 000112-95-8 | 74 |
| 2 | Heptadecane | 240 | C17H36 | 000629-78-7 | 74 |
| 3 | Pentadecane | 212 | C15H32 | 000629-62-9 | 74 |
| 4 | Hexadecane | 226 | C16H34 | 000544-76-3 | 72 |
| 5 | Heptacosane | 380 | C27H56 | 000593-49-7 | 72 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF011918\
Data File : BF102233.D
Acq On : 19 Jan 2018 22:51
Operator : SJ/JU
Sample : J1189-04
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 22C-2

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF010918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

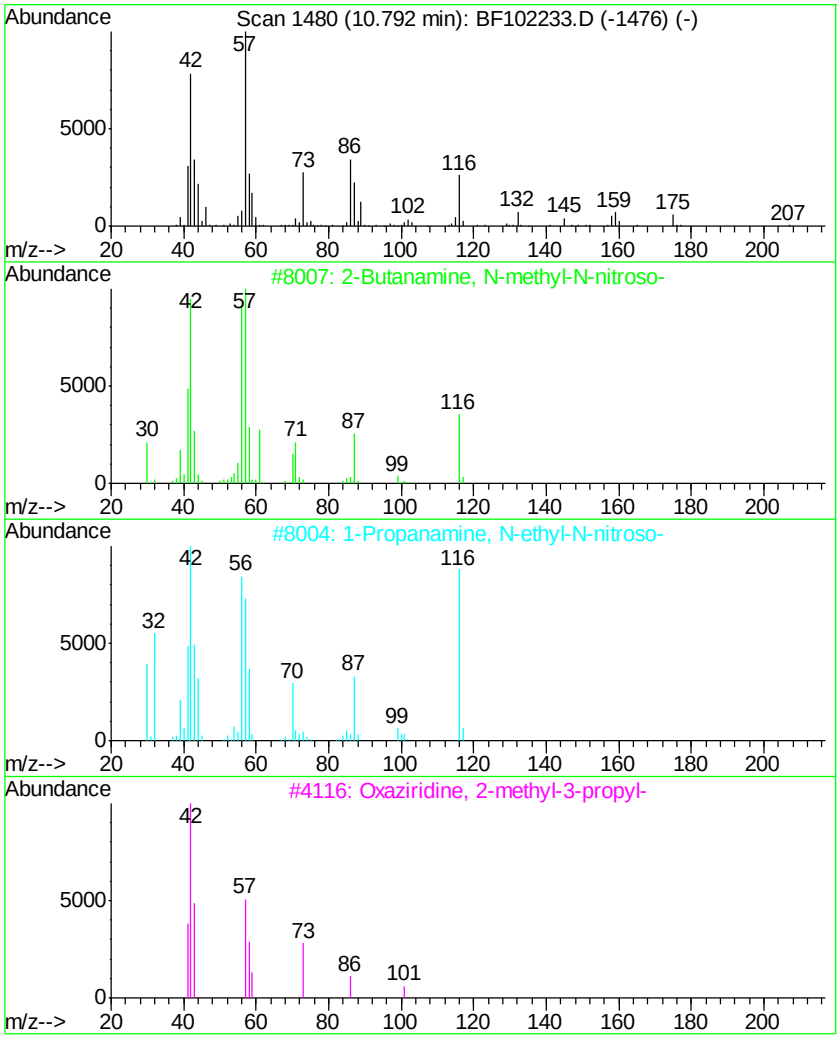
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

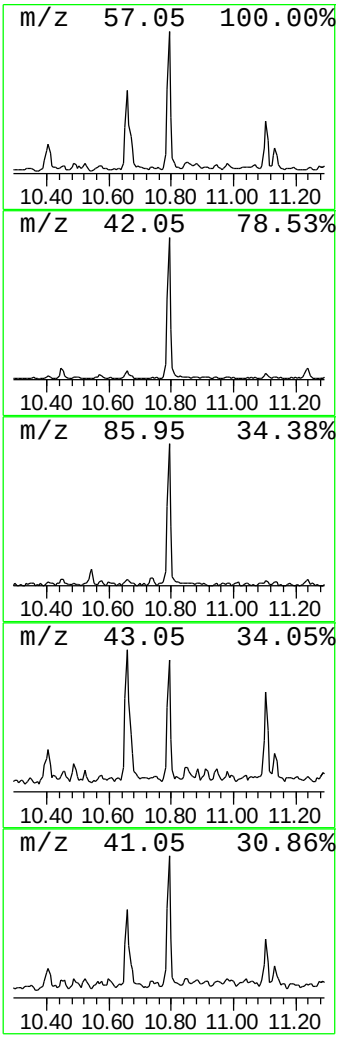
**********

Peak Number 19 2-Butanamine, N-methyl-N-ni... Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.79 | 7.74 ng | 323888 | Phenanthrene-d10 | 11.24 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Butanamine, N-methyl-N-nitroso- | 116 | C5H12N2O | 035606-37-2 | 53 |
| 2 | 1-Propanamine, N-ethyl-N-nitroso- | 116 | C5H12N2O | 025413-61-0 | 50 |
| 3 | Oxaziridine, 2-methyl-3-propyl- | 101 | C5H11NO | 058751-77-2 | 17 |
| 4 | Bicine | 163 | C6H13NO4 | 000150-25-4 | 12 |
| 5 | N1-(4-hydroxybutyl)-N3-methylgua... | 205 | C8H19N3O3 | 1000188-13-5 | 10 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF011918\
Data File : BF102233.D
Acq On : 19 Jan 2018 22:51
Operator : SJ/JU
Sample : J1189-04
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 22C-2

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF010918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

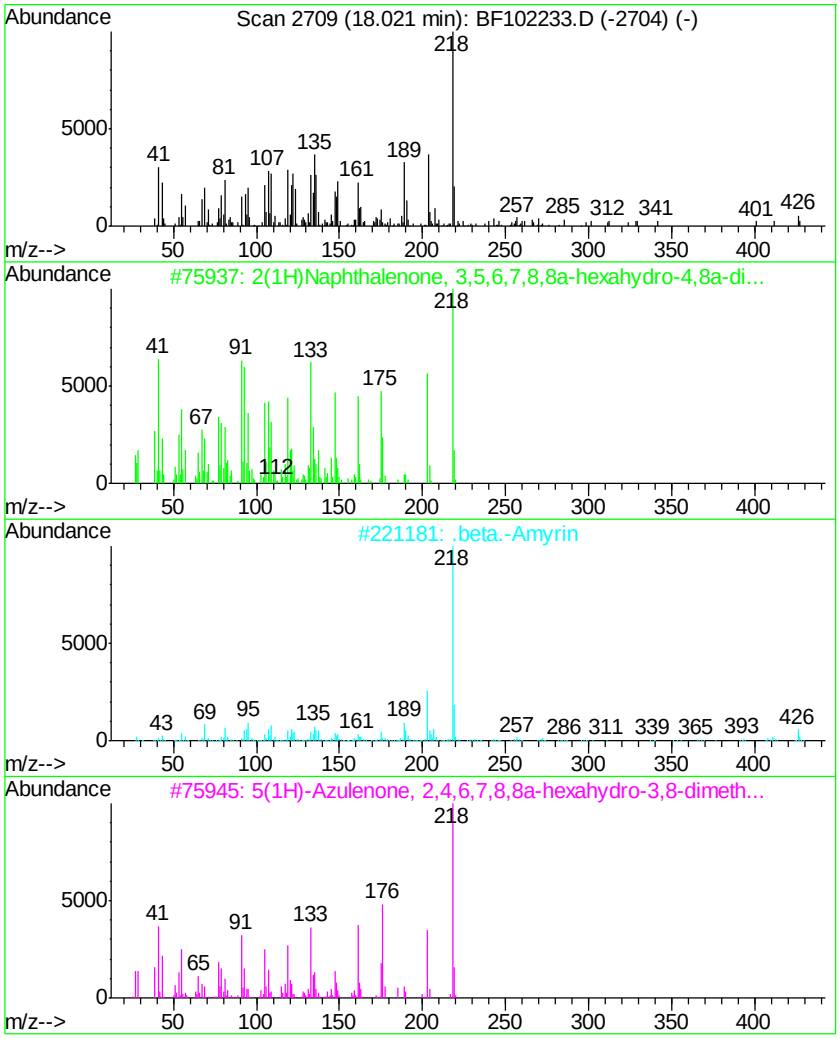
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

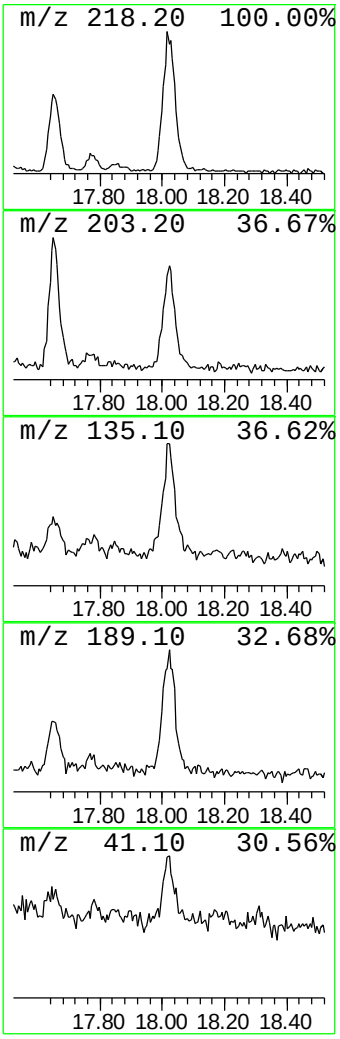
**********

Peak Number 20 2(1H)Naphthalenone, 3,5,6,7... Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.02 | 12.95 ng | 512839 | Perylene-d12 | 15.30 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2(1H)Naphthalenone, 3,5,6,7,8,8a... | 218 | C15H22O | 1000188-66-5 | 64 |
| 2 | .beta.-Amyrin | 426 | C30H50O | 000559-70-6 | 60 |
| 3 | 5(1H)-Azulenone, 2,4,6,7,8,8a-he... | 218 | C15H22O | 006754-66-1 | 58 |
| 4 | Pyrene, hexadecahydro- | 218 | C16H26 | 002435-85-0 | 52 |
| 5 | 3-Amino-5-piperonyl-1,2,4-triazole | 218 | C10H10N4O2 | 014730-92-8 | 49 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF011918\
Data File : BF102233.D
Acq On : 19 Jan 2018 22:51
Operator : SJ/JU
Sample : J1189-04
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 22C-2

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF010918.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 |
| Ethanol, 2-ethoxy- | 2.44 | 11.6 | ng | 487364 | 1 | 6.72 | 843933 | 20.0 |
| 2-Pentanone, 4-hy... | 4.92 | 15.8 | ng | 667411 | 1 | 6.72 | 843933 | 20.0 |
| Ethanol, 2-butoxy- | 5.66 | 8.9 | ng | 376698 | 1 | 6.72 | 843933 | 20.0 |
| 1-Propanol, 2-met... | 5.96 | 3.5 | ng | 146765 | 1 | 6.72 | 843933 | 20.0 |
| unknown6.49 | 6.49 | 76.0 | ng | 3206410 | 1 | 6.72 | 843933 | 20.0 |
| Benzene, 1,2,3-tr... | 6.55 | 6.1 | ng | 257983 | 1 | 6.72 | 843933 | 20.0 |
| unknown6.78 | 6.78 | 4.7 | ng | 198815 | 1 | 6.72 | 843933 | 20.0 |
| Bicyclo[2.2.1]hep... | 7.75 | 4.1 | ng | 222982 | 2 | 8.00 | 1084700 | 20.0 |
| Ethanol, 2-(2-but... | 7.90 | 5.7 | ng | 309217 | 2 | 8.00 | 1084700 | 20.0 |
| Phthalic anhydride | 8.77 | 6.3 | ng | 343042 | 2 | 8.00 | 1084700 | 20.0 |
| 2-Propenoic acid,... | 9.60 | 6.1 | ng | 310524 | 3 | 9.76 | 1024200 | 20.0 |
| Benzenesulfonamid... | 10.40 | 3.0 | ng | 154057 | 3 | 9.76 | 1024200 | 20.0 |
| Benzenesulfonamid... | 10.60 | 2.9 | ng | 123300 | 4 | 11.24 | 837364 | 20.0 |
| Eicosane | 10.66 | 6.0 | ng | 252258 | 4 | 11.24 | 837364 | 20.0 |
| 2-Butanamine, N-m... | 10.79 | 7.7 | ng | 323888 | 4 | 11.24 | 837364 | 20.0 |
| 2(1H)Naphthalenon... | 18.02 | 12.9 | ng | 512839 | 6 | 15.30 | 792185 | 20.0 |