LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA N\DATA\BN040918\
Data File : BN000718.D
Acq On : 09 Apr 2018 20:17
Operator : JU/SJ
Sample : J2268-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** MH-92A

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_N\METHODS\8270-BN040918.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 | 4.375 | 231 | 236 | 241 | rBV | 63391 | 86540 | 1.38% | 0.212% |
| 2 | 4.817 | 305 | 311 | 318 | rVB | 117515 | 158925 | 2.53% | 0.390% |
| 3 | 5.264 | 380 | 387 | 394 | rVB | 984334 | 1392229 | 22.19% | 3.417% |
| 4 | 5.711 | 456 | 463 | 468 | rBV | 107605 | 169084 | 2.69% | 0.415% |
| 5 | 6.075 | 518 | 525 | 532 | rVB | 75685 | 118869 | 1.89% | 0.292% |
| 6 | 6.752 | 635 | 640 | 644 | rBV2 | 39834 | 63635 | 1.01% | 0.156% |
| 7 | 6.811 | 644 | 650 | 660 | rVB | 569051 | 906411 | 14.45% | 2.225% |
| 8 | 7.175 | 697 | 712 | 720 | rBV | 1769957 | 2841625 | 45.29% | 6.974% |
| 9 | 7.240 | 720 | 723 | 728 | rVB | 50336 | 69005 | 1.10% | 0.169% |
| 10 | 7.428 | 750 | 755 | 762 | rBV | 70876 | 108583 | 1.73% | 0.267% |
| 11 | 7.634 | 782 | 790 | 796 | rBV | 547562 | 848212 | 13.52% | 2.082% |
| 12 | 7.710 | 798 | 803 | 813 | rVB | 95620 | 170750 | 2.72% | 0.419% |
| 13 | 7.952 | 837 | 844 | 851 | rVB | 2460148 | 3904391 | 62.23% | 9.583% |
| 14 | 8.016 | 851 | 855 | 861 | rBV | 64675 | 87215 | 1.39% | 0.214% |
| 15 | 8.416 | 915 | 923 | 926 | rBV2 | 45290 | 93098 | 1.48% | 0.228% |
| 16 | 8.593 | 946 | 953 | 961 | rVB2 | 39905 | 73940 | 1.18% | 0.181% |
| 17 | 8.728 | 970 | 976 | 979 | rBV | 256573 | 389600 | 6.21% | 0.956% |
| 18 | 8.781 | 979 | 985 | 996 | rVB | 1880309 | 2999604 | 47.81% | 7.362% |
| 19 | 8.916 | 1002 | 1008 | 1017 | rBV3 | 35006 | 97157 | 1.55% | 0.238% |
| 20 | 9.016 | 1017 | 1025 | 1034 | rVB9 | 28336 | 103517 | 1.65% | 0.254% |
| 21 | 9.563 | 1112 | 1118 | 1122 | rBV3 | 32134 | 64209 | 1.02% | 0.158% |
| 22 | 9.828 | 1154 | 1163 | 1171 | rBV7 | 46978 | 113840 | 1.81% | 0.279% |
| 23 | 10.193 | 1220 | 1225 | 1232 | rBV5 | 43544 | 74578 | 1.19% | 0.183% |
| 24 | 10.328 | 1242 | 1248 | 1254 | rBV | 208443 | 346062 | 5.52% | 0.849% |
| 25 | 10.404 | 1254 | 1261 | 1267 | rVB | 655071 | 1090507 | 17.38% | 2.676% |
| 26 | 10.757 | 1316 | 1321 | 1330 | rVB | 245214 | 378328 | 6.03% | 0.929% |
| 27 | 10.957 | 1349 | 1355 | 1360 | rBV2 | 42198 | 70775 | 1.13% | 0.174% |
| 28 | 11.040 | 1361 | 1369 | 1376 | rVV4 | 55901 | 133671 | 2.13% | 0.328% |
| 29 | 11.281 | 1405 | 1410 | 1421 | rVB8 | 25679 | 72480 | 1.16% | 0.178% |
| 30 | 11.910 | 1512 | 1517 | 1525 | rBV3 | 29390 | 65134 | 1.04% | 0.160% |
| 31 | 12.640 | 1634 | 1641 | 1645 | rBV4 | 54694 | 133632 | 2.13% | 0.328% |
| 32 | 12.887 | 1677 | 1683 | 1689 | rBV | 4217191 | 6274279 | 100.00% | 15.399% |
| 33 | 12.934 | 1689 | 1691 | 1695 | rVB | 83511 | 88889 | 1.42% | 0.218% |
| 34 | 13.510 | 1785 | 1789 | 1797 | rVB2 | 43902 | 79853 | 1.27% | 0.196% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA N\DATA\BN040918\
Data File : BN000718.D
Acq On : 09 Apr 2018 20:17
Operator : JU/SJ
Sample : J2268-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** MH-92A

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_N\METHODS\8270-BN040918.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 13.728 | 1822 | 1826 | 1831 | rBV | 119924 | 167953 | 2.68% | 0.412% |
| 36 | 13.840 | 1838 | 1845 | 1851 | rBV5 | 88185 | 164055 | 2.61% | 0.403% |
| 37 | 14.034 | 1873 | 1878 | 1882 | rBV | 203505 | 290636 | 4.63% | 0.713% |
| 38 | 14.198 | 1902 | 1906 | 1912 | rBV3 | 191319 | 286931 | 4.57% | 0.704% |
| 39 | 14.263 | 1912 | 1917 | 1924 | rVV2 | 825809 | 1288073 | 20.53% | 3.161% |
| 40 | 14.428 | 1941 | 1945 | 1949 | rVB | 98669 | 126887 | 2.02% | 0.311% |
| 41 | 14.604 | 1971 | 1975 | 1981 | rBV | 67684 | 106296 | 1.69% | 0.261% |
| 42 | 14.692 | 1987 | 1990 | 1995 | rVB | 108753 | 149369 | 2.38% | 0.367% |
| 43 | 14.804 | 2004 | 2009 | 2012 | rBV | 166433 | 268698 | 4.28% | 0.659% |
| 44 | 15.157 | 2065 | 2069 | 2072 | rBV | 69398 | 92167 | 1.47% | 0.226% |
| 45 | 15.757 | 2165 | 2171 | 2180 | rVB | 2061550 | 2949000 | 47.00% | 7.238% |
| 46 | 16.481 | 2291 | 2294 | 2299 | rBV6 | 41286 | 80040 | 1.28% | 0.196% |
| 47 | 16.534 | 2300 | 2303 | 2308 | rVB2 | 73413 | 94338 | 1.50% | 0.232% |
| 48 | 16.804 | 2346 | 2349 | 2360 | rVB6 | 55953 | 109246 | 1.74% | 0.268% |
| 49 | 17.010 | 2379 | 2384 | 2389 | rBV2 | 973553 | 1381530 | 22.02% | 3.391% |
| 50 | 17.704 | 2498 | 2502 | 2506 | rBV2 | 130843 | 167406 | 2.67% | 0.411% |
| 51 | 17.939 | 2538 | 2542 | 2546 | rBV | 192467 | 286317 | 4.56% | 0.703% |
| 52 | 17.981 | 2547 | 2549 | 2558 | rVV2 | 107149 | 176624 | 2.82% | 0.433% |
| 53 | 18.057 | 2559 | 2562 | 2569 | rVB4 | 80251 | 146240 | 2.33% | 0.359% |
| 54 | 19.233 | 2759 | 2762 | 2767 | rBV2 | 76630 | 99757 | 1.59% | 0.245% |
| 55 | 19.663 | 2830 | 2835 | 2843 | rVB | 4427881 | 5498046 | 87.63% | 13.494% |
| 56 | 20.969 | 3054 | 3057 | 3064 | rBV | 142819 | 210276 | 3.35% | 0.516% |
| 57 | 21.216 | 3095 | 3099 | 3104 | rVB | 1151049 | 1396171 | 22.25% | 3.427% |
| 58 | 23.410 | 3465 | 3472 | 3481 | rVB2 | 841782 | 1539299 | 24.53% | 3.778% |

Sum of corrected areas: 40743982

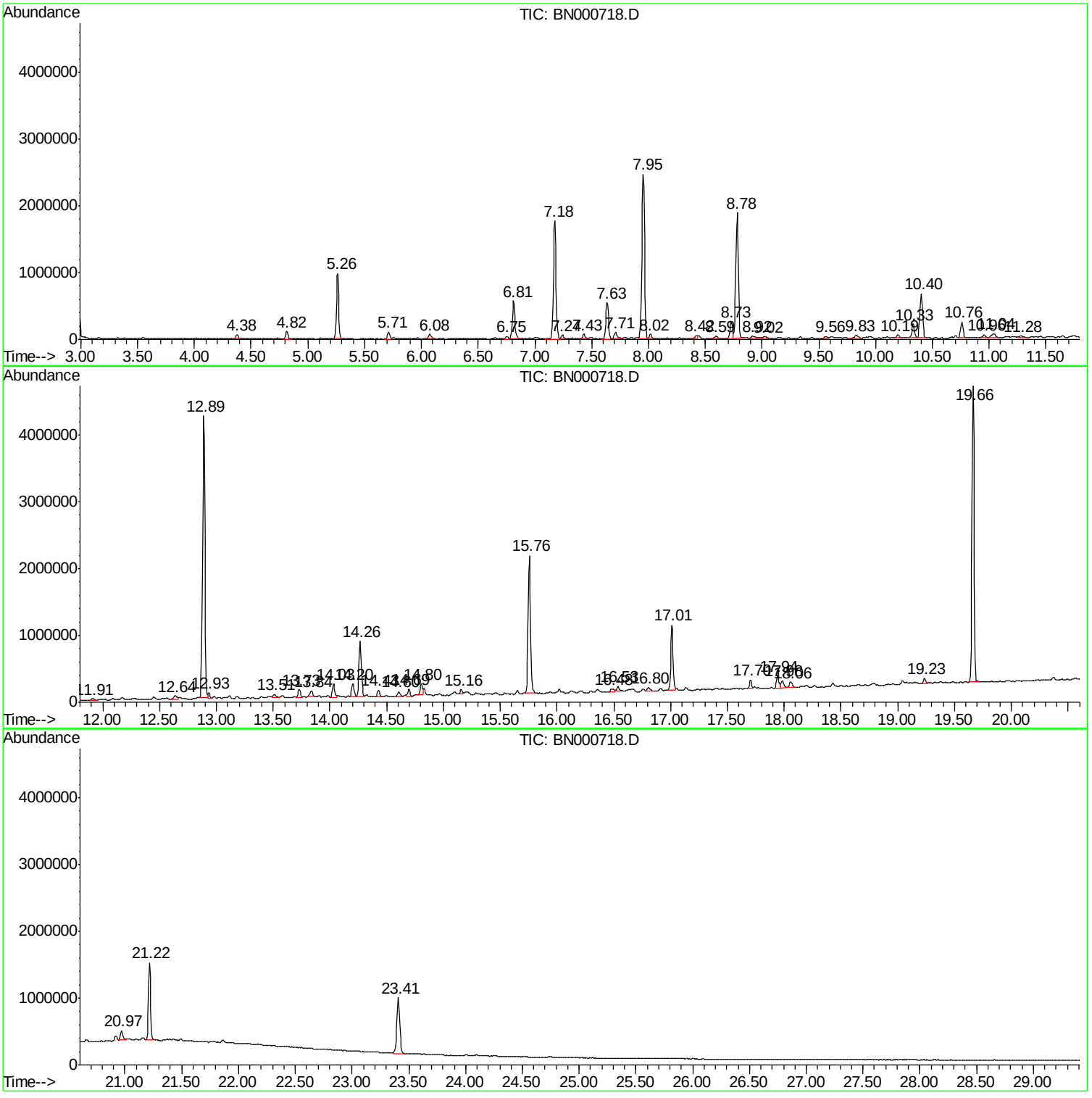
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA N\DATA\BN040918\
Data File : BN000718.D
Acq On : 09 Apr 2018 20:17
Operator : JU/SJ
Sample : J2268-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** MH-92A

Quant Method : Z:\HPCHEM1\BNA_N\METHODS\8270-BN040918.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 N\DATA\BN040918\
Data File : BN000718.D
Acq On : 09 Apr 2018 20:17
Operator : JU/SJ
Sample : J2268-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** MH-92A

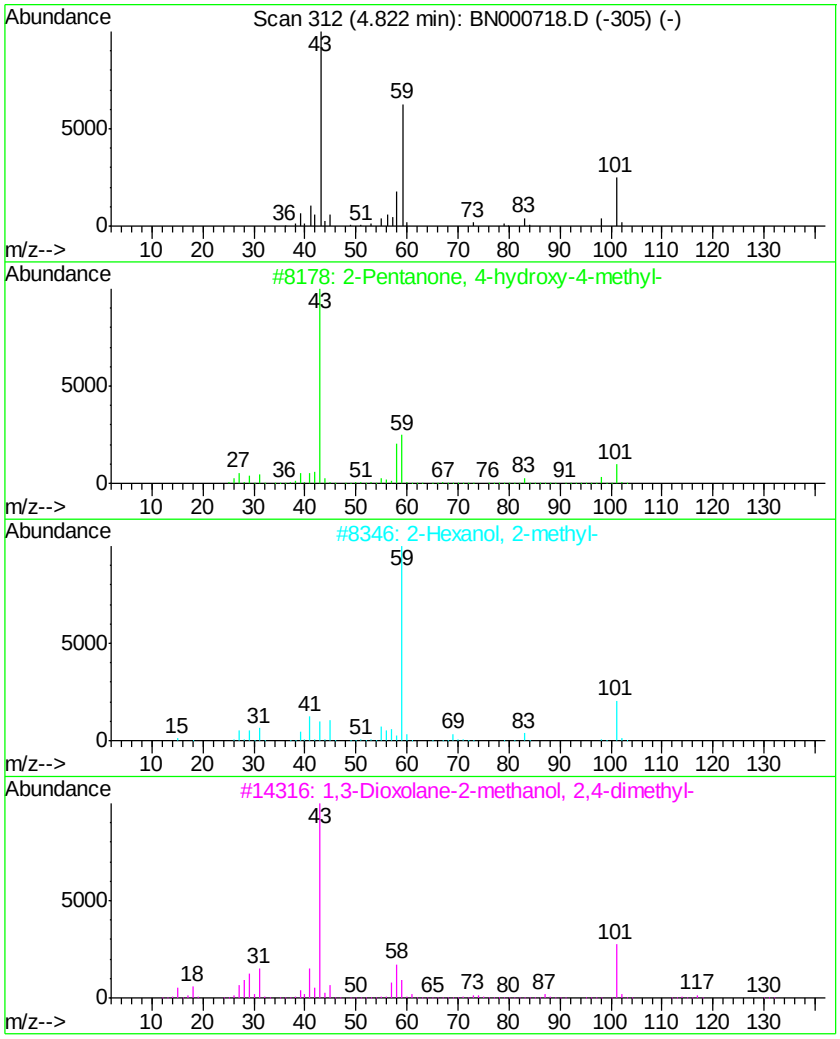
Quant Method : Z:\HPCHEM1\BNA_N\METHODS\8270-BN040918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

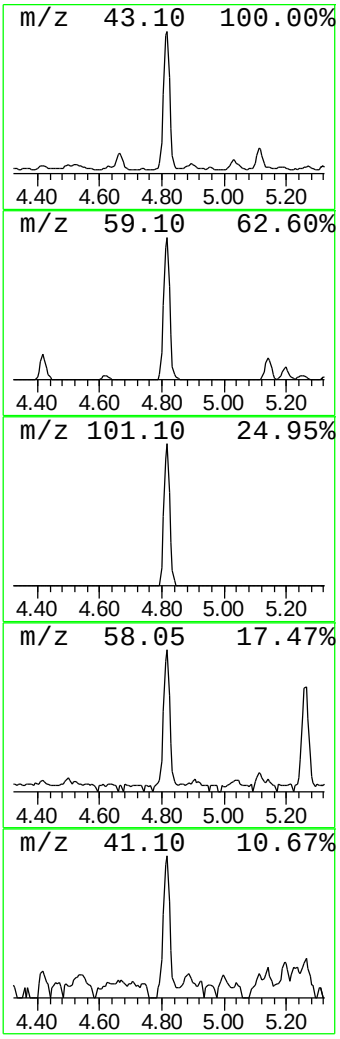
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.82 | 3.75 ng | 158925 | 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 | 59 |
| 2 | 2-Hexanol, 2-methyl- | 116 | C7H16O | 000625-23-0 | 50 |
| 3 | 1,3-Dioxolane-2-methanol, 2,4-di... | 132 | C6H12O3 | 053951-43-2 | 32 |
| 4 | 2-Pentanol, 2,4-dimethyl- | 116 | C7H16O | 000625-06-9 | 23 |
| 5 | 3-Hexanol | 102 | C6H14O | 000623-37-0 | 17 |



Data Path : Z:\HPCHEM1\BNA N\DATA\BN040918\
Data File : BN000718.D
Acq On : 09 Apr 2018 20:17
Operator : JU/SJ
Sample : J2268-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** MH-92A

Quant Method : Z:\HPCHEM1\BNA_N\METHODS\8270-BN040918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

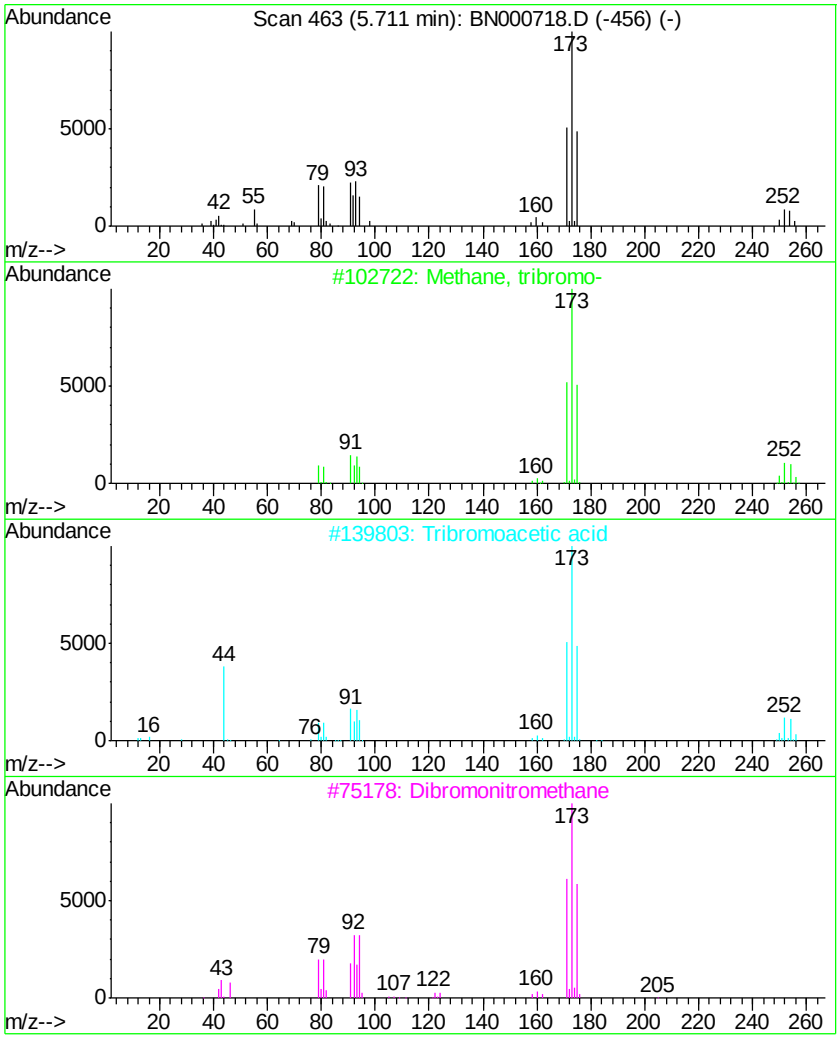
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

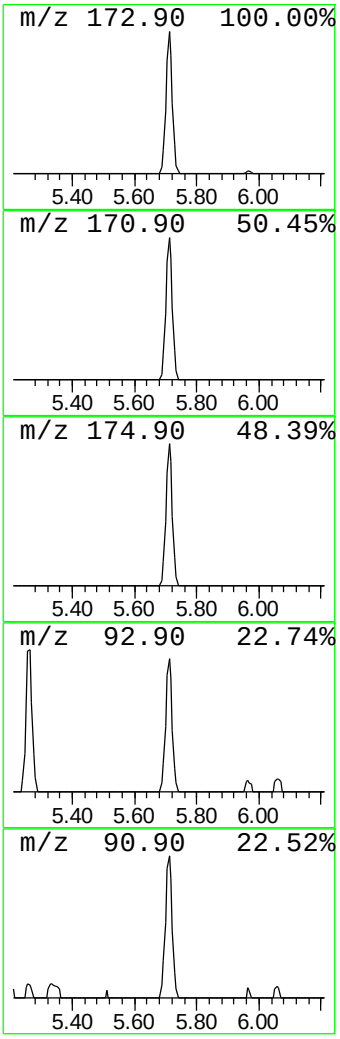
**********

Peak Number 2 Methane, tribromo- Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.71 | 3.99 ng | 169084 | 1,4-Dichlorobenzene-d4 | 7.63 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Methane, tribromo- | 250 | CHBr3 | 000075-25-2 | 97 |
| 2 | Tribromoacetic acid | 294 | C2HBr3O2 | 000075-96-7 | 86 |
| 3 | Dibromonitromethane | 217 | CHBr2NO2 | 000598-91-4 | 32 |
| 4 | 5-Chloro-6-hydroxynicotinic acid | 173 | C6H4ClNO3 | 054127-63-8 | 25 |
| 5 | 1-Cyclohexyldimethylsilyloxyheptane | 256 | C15H32OSi | 1000281-95-9 | 9 |



Data Path : Z:\HPCHEM1\BNA N\DATA\BN040918\
Data File : BN000718.D
Acq On : 09 Apr 2018 20:17
Operator : JU/SJ
Sample : J2268-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** MH-92A

Quant Method : Z:\HPCHEM1\BNA_N\METHODS\8270-BN040918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

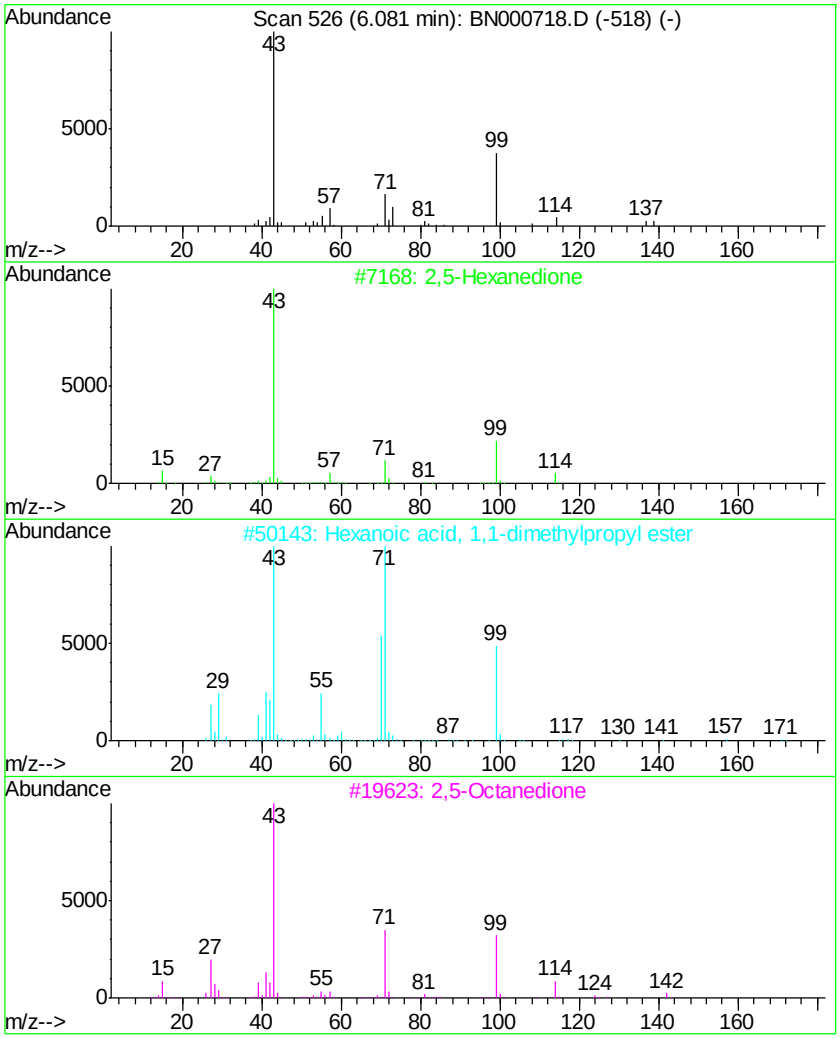
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

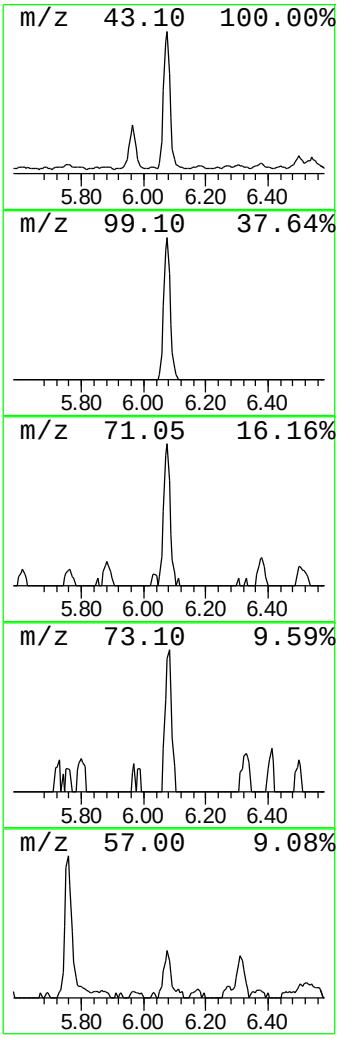
**********

Peak Number 3 2,5-Hexanedione Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.08 | 2.80 ng | 118869 | 1,4-Dichlorobenzene-d4 | 7.63 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2,5-Hexanedione | 114 | C6H10O2 | 000110-13-4 | 72 |
| 2 | Hexanoic acid, 1,1-dimethylpropy... | 186 | C11H22O2 | 116423-69-9 | 40 |
| 3 | 2,5-Octanedione | 142 | C8H14O2 | 003214-41-3 | 38 |
| 4 | 2-Buten-1-ol, acetate | 114 | C6H10O2 | 000628-08-0 | 35 |
| 5 | 2-Hydroxy-2,3-dimethylsuccinic acid | 162 | C6H10O5 | 031519-20-7 | 33 |



Data Path : Z:\HPCHEM1\BNA N\DATA\BN040918\
Data File : BN000718.D
Acq On : 09 Apr 2018 20:17
Operator : JU/SJ
Sample : J2268-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** MH-92A

Quant Method : Z:\HPCHEM1\BNA_N\METHODS\8270-BN040918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

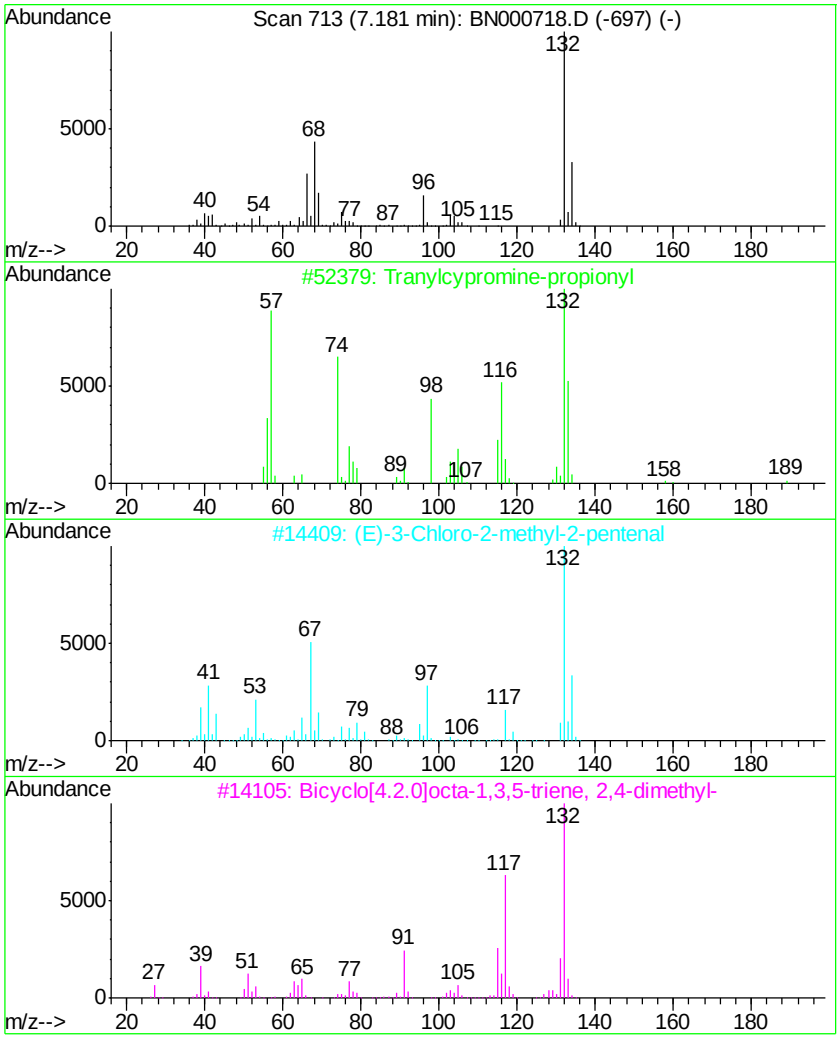
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

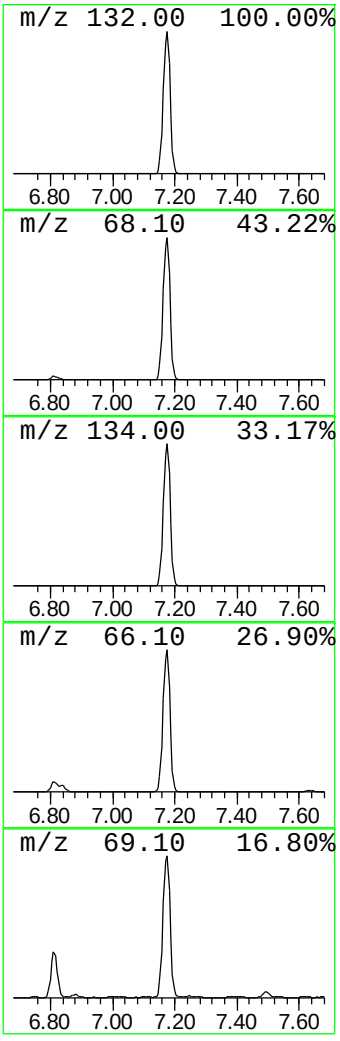
**********

Peak Number 4 unknown7.18 Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.18 | 67.00 ng | 2841630 | 1,4-Dichlorobenzene-d4 | 7.63 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Tranylcypromine-propionyl | 189 | C12H15NO | 1000123-86-3 | 10 |
| 2 | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO | 031357-76-3 | 9 |
| 3 | Bicyclo[4.2.0]octa-1,3,5-triene,... | 132 | C10H12 | 028749-81-7 | 9 |
| 4 | 1,3,4-Thiadiazole-2(3H)-thione, ... | 132 | C3H4N2S2 | 029490-19-5 | 9 |
| 5 | 5-Fluoro-2-chloropyrimidine | 132 | C4H2ClFN2 | 062802-42-0 | 9 |



Data Path : Z:\HPCHEM1\BNA N\DATA\BN040918\
Data File : BN000718.D
Acq On : 09 Apr 2018 20:17
Operator : JU/SJ
Sample : J2268-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** MH-92A

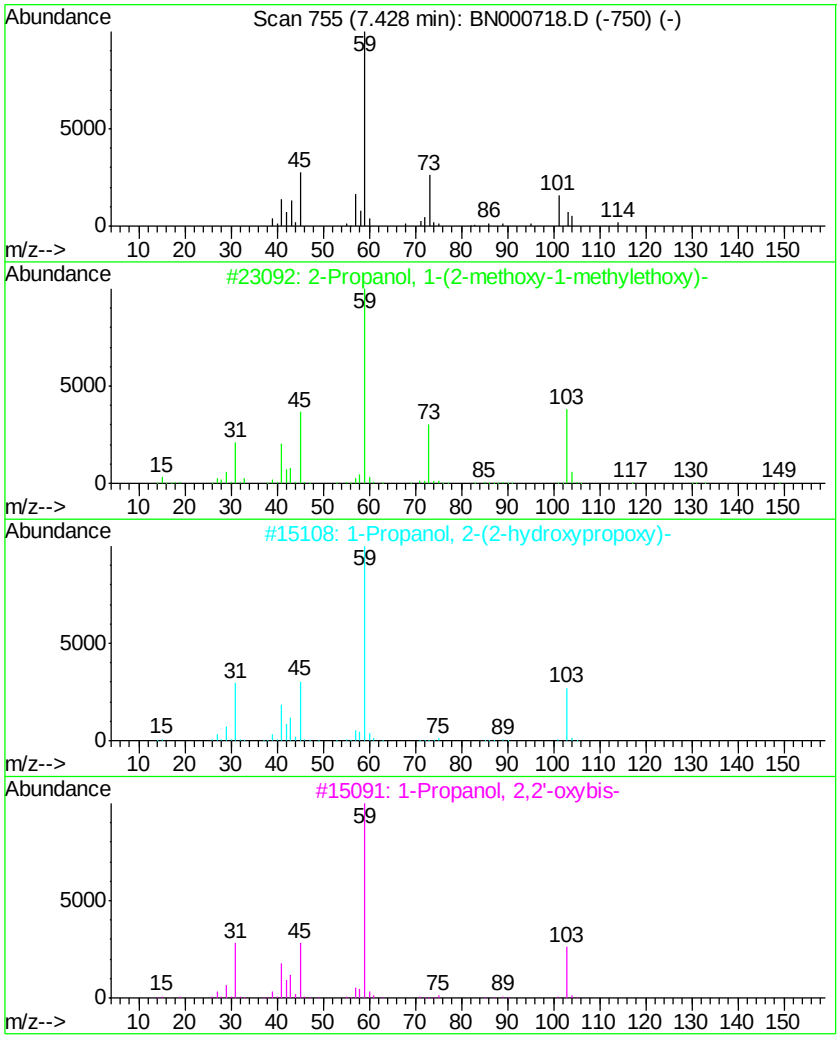
Quant Method : Z:\HPCHEM1\BNA_N\METHODS\8270-BN040918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

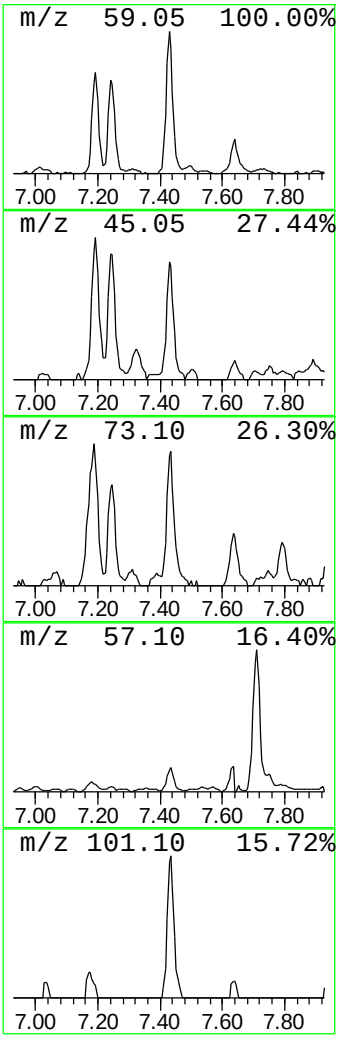
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 5 2-Propanol, 1-(2-methoxy-1-... Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.43 | 2.56 ng | 108583 | 1,4-Dichlorobenzene-d4 | 7.63 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Propanol, 1-(2-methoxy-1-methy... | 148 | C7H16O3 | 020324-32-7 | 64 |
| 2 | 1-Propanol, 2-(2-hydroxypropoxy)- | 134 | C6H14O3 | 000106-62-7 | 53 |
| 3 | 1-Propanol, 2,2'-oxybis- | 134 | C6H14O3 | 000108-61-2 | 53 |
| 4 | 3-Hexanol, 4-methyl- | 116 | C7H16O | 000615-29-2 | 42 |
| 5 | 2-Propanol, 1-(2-butoxy-1-methyl... | 190 | C10H22O3 | 029911-28-2 | 42 |



Data Path : Z:\HPCHEM1\BNA N\DATA\BN040918\
Data File : BN000718.D
Acq On : 09 Apr 2018 20:17
Operator : JU/SJ
Sample : J2268-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** MH-92A

Quant Method : Z:\HPCHEM1\BNA_N\METHODS\8270-BN040918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

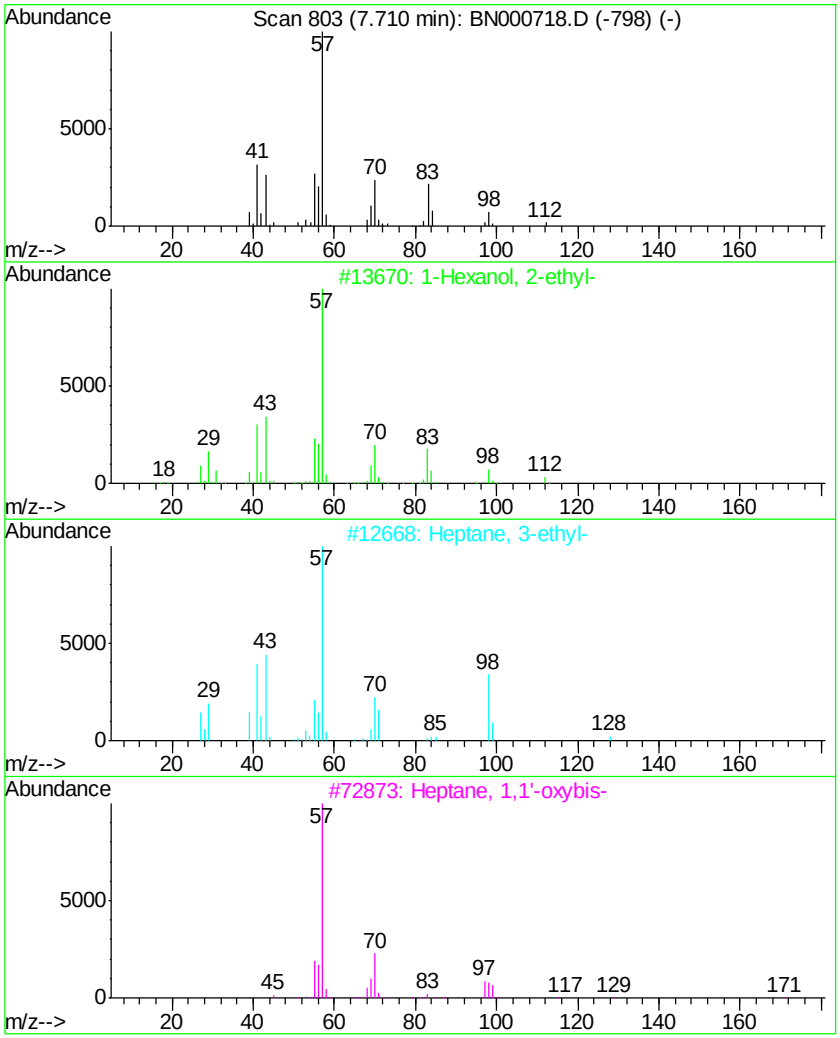
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

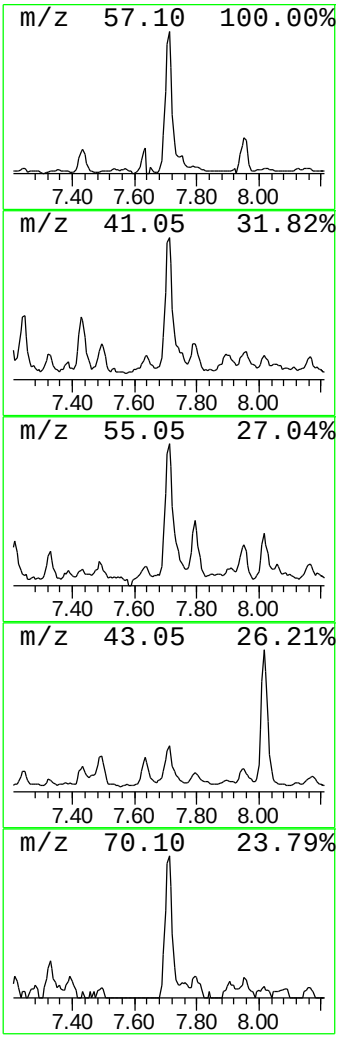
**********

Peak Number 6 1-Hexanol, 2-ethyl- Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.71 | 4.03 ng | 170750 | 1,4-Dichlorobenzene-d4 | 7.63 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Hexanol, 2-ethyl- | 130 | C8H18O | 000104-76-7 | 83 |
| 2 | Heptane, 3-ethyl- | 128 | C9H20 | 015869-80-4 | 59 |
| 3 | Heptane, 1,1'-oxybis- | 214 | C14H30O | 000629-64-1 | 53 |
| 4 | 2-Propyl-1-pentanol | 130 | C8H18O | 058175-57-8 | 50 |
| 5 | 1-Pentanol, 2-ethyl-4-methyl- | 130 | C8H18O | 000106-67-2 | 50 |



Data Path : Z:\HPCHEM1\BNA N\DATA\BN040918\
Data File : BN000718.D
Acq On : 09 Apr 2018 20:17
Operator : JU/SJ
Sample : J2268-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** MH-92A

Quant Method : Z:\HPCHEM1\BNA_N\METHODS\8270-BN040918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

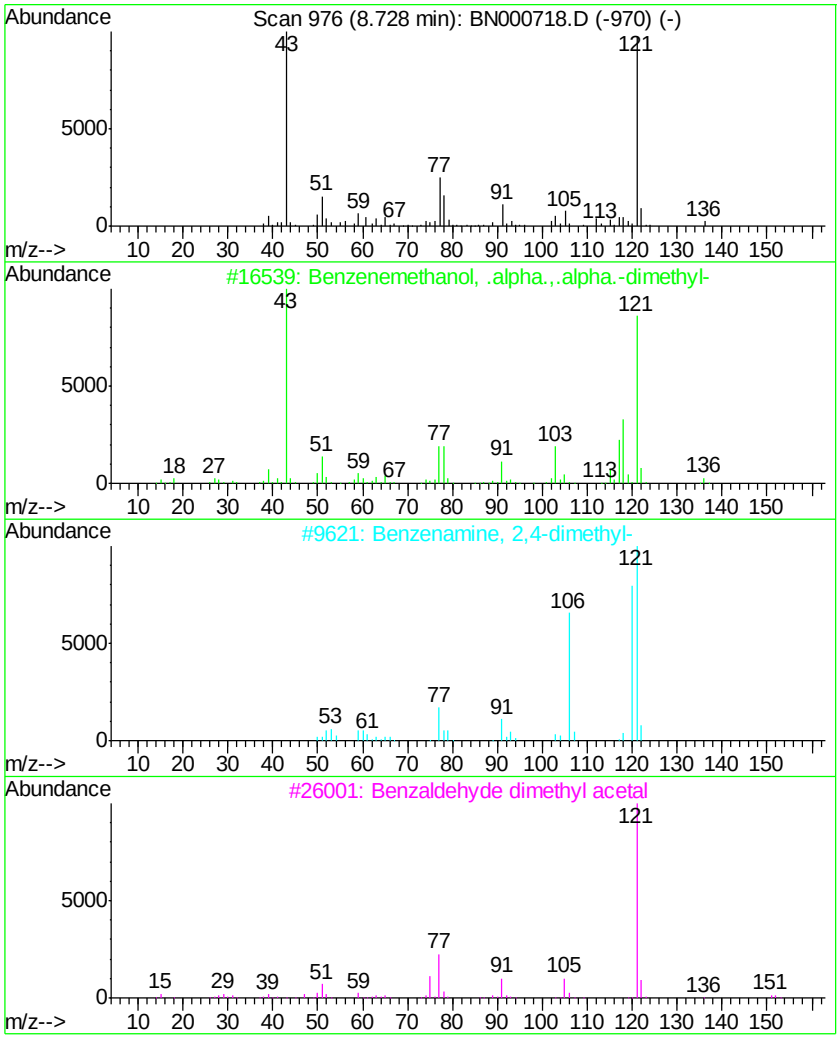
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

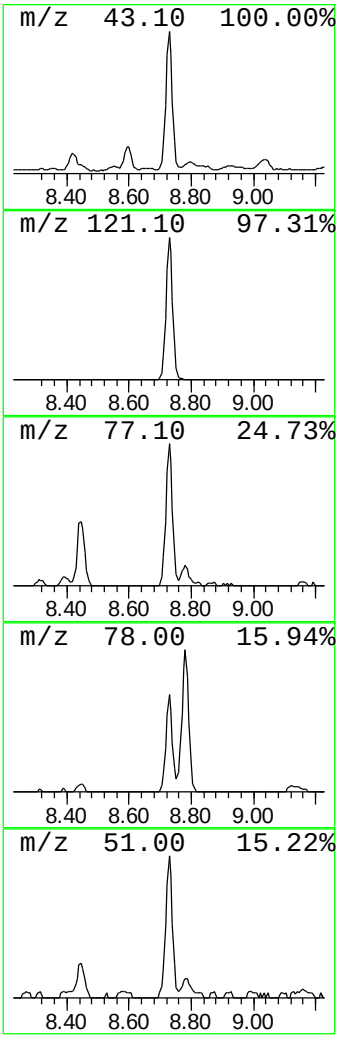
**********

Peak Number 8 Benzenemethanol, .alpha.,.a... Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.73 | 9.19 ng | 389600 | 1,4-Dichlorobenzene-d4 | 7.63 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzenemethanol, .alpha.,.alpha.... | 136 | C9H12O | 000617-94-7 | 68 |
| 2 | Benzenamine, 2,4-dimethyl- | 121 | C8H11N | 000095-68-1 | 64 |
| 3 | Benzaldehyde dimethyl acetal | 152 | C9H12O2 | 001125-88-8 | 64 |
| 4 | Benzeneacetic acid, .alpha.-meth... | 166 | C9H10O3 | 007021-09-2 | 64 |
| 5 | Benzeneacetamide, .alpha.-hydrox... | 179 | C10H13NO2 | 002019-70-7 | 64 |



Data Path : Z:\HPCHEM1\BNA N\DATA\BN040918\
Data File : BN000718.D
Acq On : 09 Apr 2018 20:17
Operator : JU/SJ
Sample : J2268-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** MH-92A

Quant Method : Z:\HPCHEM1\BNA_N\METHODS\8270-BN040918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

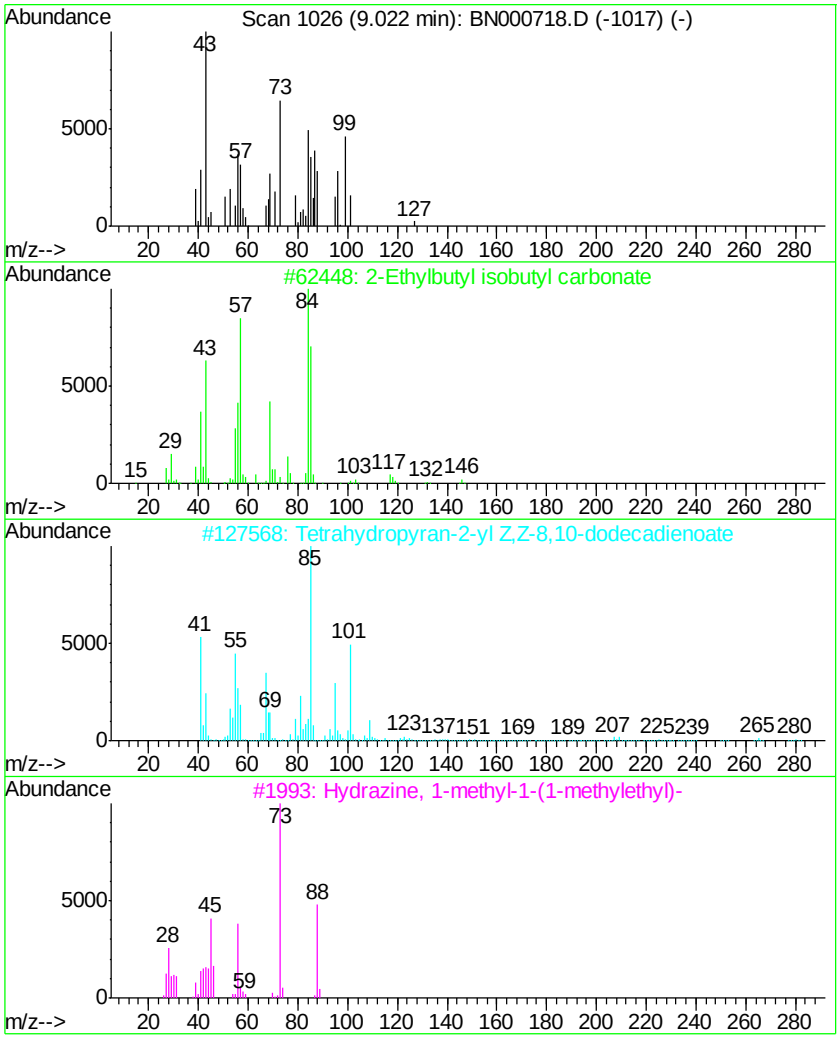
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

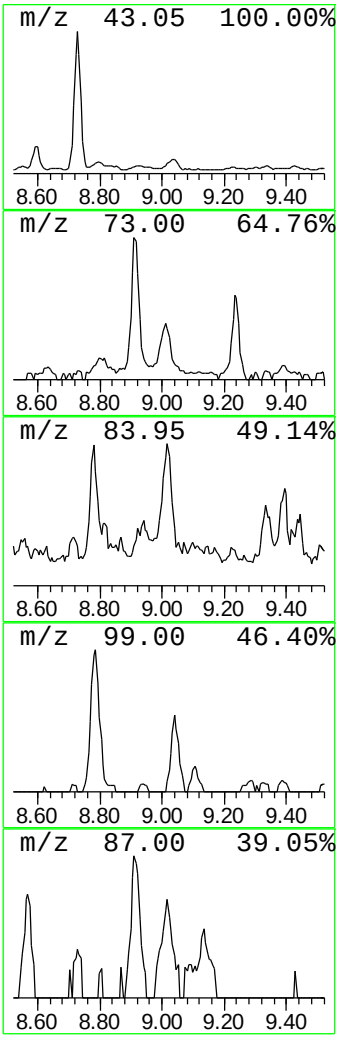
**********

Peak Number 9 unknown9.02 Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.02 | 2.44 ng | 103517 | 1,4-Dichlorobenzene-d4 | 7.63 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Ethylbutyl isobutyl carbonate | 202 | C11H22O3 | 1000372-75-1 | 10 |
| 2 | Tetrahydropyran-2-yl Z,Z-8,10-do... | 280 | C17H28O3 | 1000130-96-6 | 10 |
| 3 | Hydrazine, 1-methyl-1-(1-methyle... | 88 | C4H12N2 | 033668-54-1 | 9 |
| 4 | Propanoic acid, 2-methyl- | 88 | C4H8O2 | 000079-31-2 | 9 |
| 5 | Morpholine | 87 | C4H9NO | 000110-91-8 | 9 |



Data Path : Z:\HPCHEM1\BNA N\DATA\BN040918\
Data File : BN000718.D
Acq On : 09 Apr 2018 20:17
Operator : JU/SJ
Sample : J2268-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** MH-92A

Quant Method : Z:\HPCHEM1\BNA_N\METHODS\8270-BN040918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

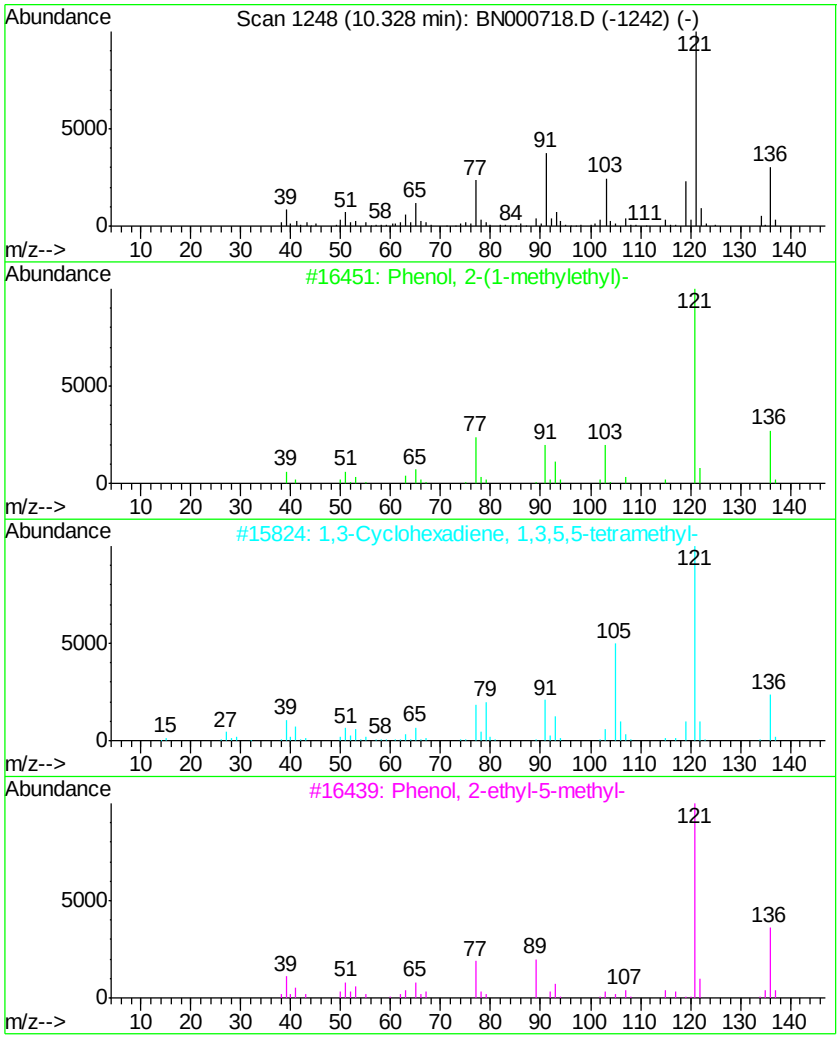
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

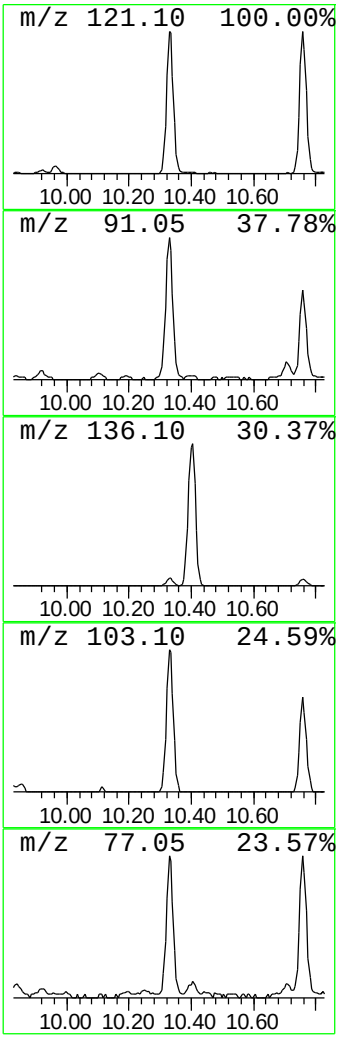
**********

Peak Number 10 Phenol, 2-(1-methylethyl)- Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.33 | 6.35 ng | 346062 | Naphthalene-d8 | 10.40 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenol, 2-(1-methylethyl)- | 136 | C9H12O | 000088-69-7 | 91 |
| 2 | 1,3-Cyclohexadiene, 1,3,5,5-tetr... | 136 | C10H16 | 004724-89-4 | 72 |
| 3 | Phenol, 2-ethyl-5-methyl- | 136 | C9H12O | 001687-61-2 | 68 |
| 4 | Phenol, 3-(1-methylethyl)- | 136 | C9H12O | 000618-45-1 | 68 |
| 5 | Phenol, 4-(1-methylethyl)- | 136 | C9H12O | 000099-89-8 | 64 |



Data Path : Z:\HPCHEM1\BNA N\DATA\BN040918\
Data File : BN000718.D
Acq On : 09 Apr 2018 20:17
Operator : JU/SJ
Sample : J2268-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** MH-92A

Quant Method : Z:\HPCHEM1\BNA_N\METHODS\8270-BN040918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

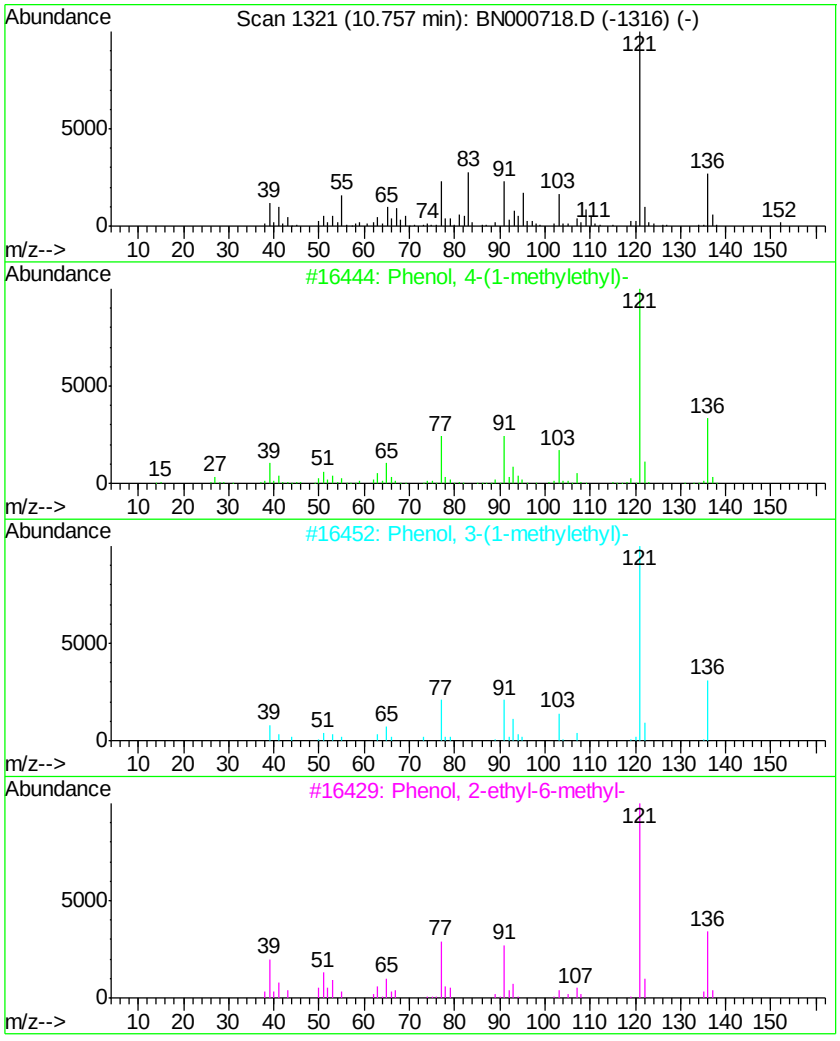
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

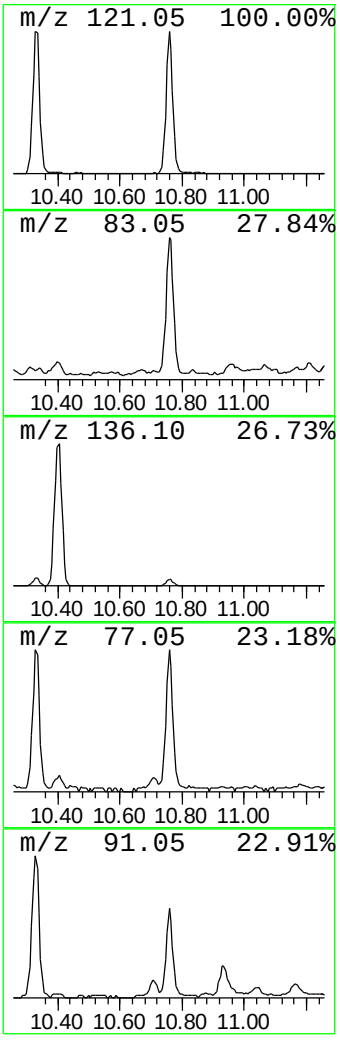
**********

Peak Number 11 Phenol, 4-(1-methylethyl)- Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.76 | 6.94 ng | 378328 | Naphthalene-d8 | 10.40 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenol, 4-(1-methylethyl)- | 136 | C9H12O | 000099-89-8 | 93 |
| 2 | Phenol, 3-(1-methylethyl)- | 136 | C9H12O | 000618-45-1 | 76 |
| 3 | Phenol, 2-ethyl-6-methyl- | 136 | C9H12O | 001687-64-5 | 76 |
| 4 | Phenol, 2-(1-methylethyl)- | 136 | C9H12O | 000088-69-7 | 62 |
| 5 | Phenol, 4-ethyl-3-methyl- | 136 | C9H12O | 001123-94-0 | 58 |



Data Path : Z:\HPCHEM1\BNA N\DATA\BN040918\
Data File : BN000718.D
Acq On : 09 Apr 2018 20:17
Operator : JU/SJ
Sample : J2268-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** MH-92A

Quant Method : Z:\HPCHEM1\BNA_N\METHODS\8270-BN040918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

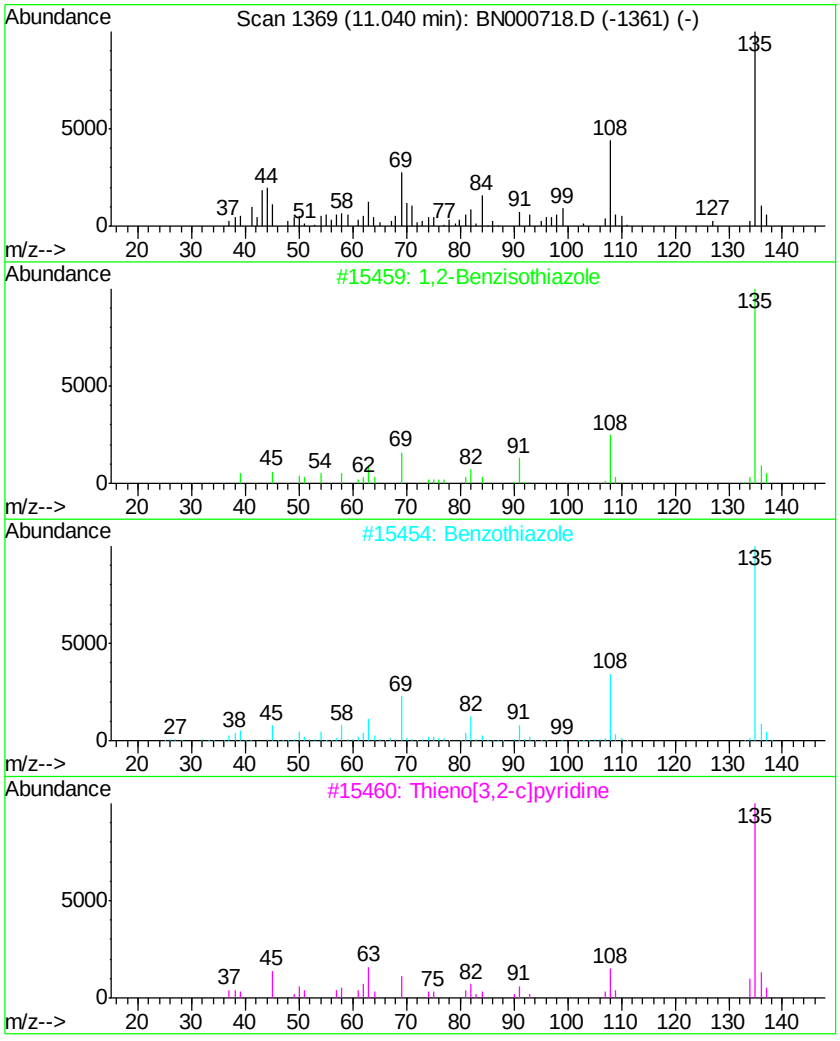
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

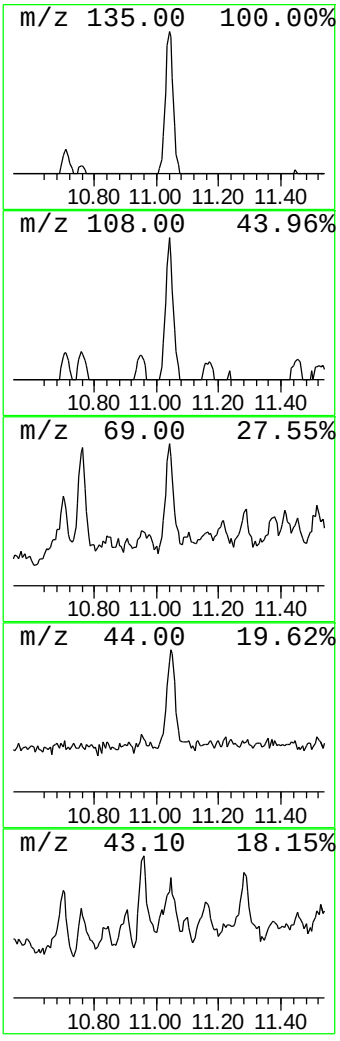
**********

Peak Number 12 1,2-Benzisothiazole Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.04 | 2.45 ng | 133671 | Naphthalene-d8 | 10.40 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,2-Benzisothiazole | 135 | C7H5NS | 000272-16-2 | 81 |
| 2 | Benzothiazole | 135 | C7H5NS | 000095-16-9 | 76 |
| 3 | Thieno[3,2-c]pyridine | 135 | C7H5NS | 000272-14-0 | 60 |
| 4 | Adenine | 135 | C5H5N5 | 000073-24-5 | 53 |
| 5 | 1H-Indole, 5-fluoro- | 135 | C8H6FN | 000399-52-0 | 53 |



Data Path : Z:\HPCHEM1\BNA N\DATA\BN040918\
Data File : BN000718.D
Acq On : 09 Apr 2018 20:17
Operator : JU/SJ
Sample : J2268-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** MH-92A

Quant Method : Z:\HPCHEM1\BNA_N\METHODS\8270-BN040918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

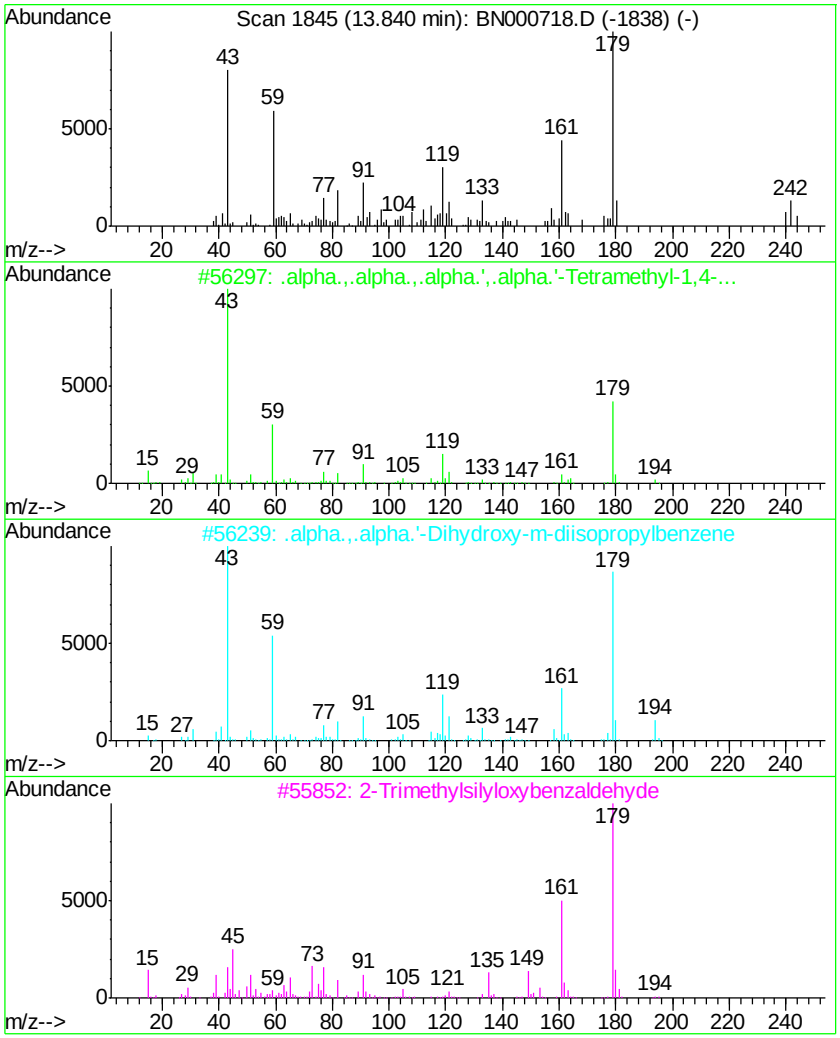
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

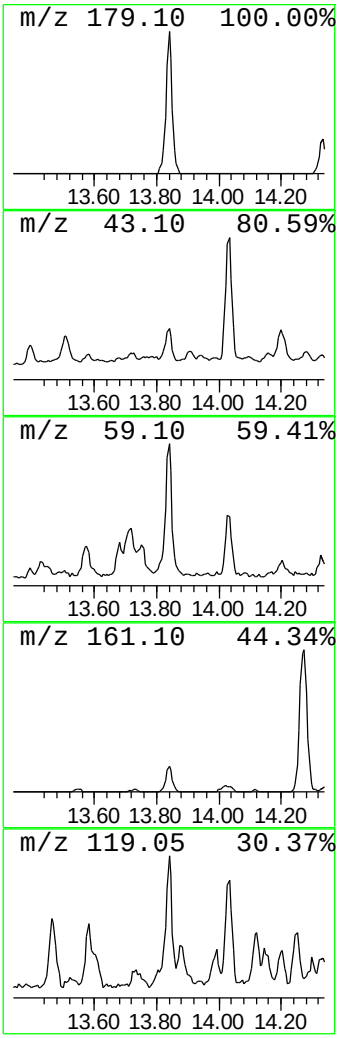
**********

Peak Number 13 unknown13.84 Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.84 | 2.55 ng | 164055 | Acenaphthene-d10 | 14.26 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | .alpha.,.alpha.,.alpha.',.alpha.... | 194 | C12H18O2 | 002948-46-1 | 47 |
| 2 | .alpha.,.alpha.'-Dihydroxy-m-dii... | 194 | C12H18O2 | 001999-85-5 | 45 |
| 3 | 2-Trimethylsilyloxybenzaldehyde | 194 | C10H14O2Si | 001078-31-5 | 43 |
| 4 | .alpha.,.alpha.-Diisopropyl-o-me... | 222 | C14H22O2 | 010277-90-4 | 38 |
| 5 | 4-Butylbenzoic acid, 2-tridecyl ... | 360 | C24H40O2 | 1000299-93-6 | 37 |



Data Path : Z:\HPCHEM1\BNA N\DATA\BN040918\
Data File : BN000718.D
Acq On : 09 Apr 2018 20:17
Operator : JU/SJ
Sample : J2268-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** MH-92A

Quant Method : Z:\HPCHEM1\BNA_N\METHODS\8270-BN040918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

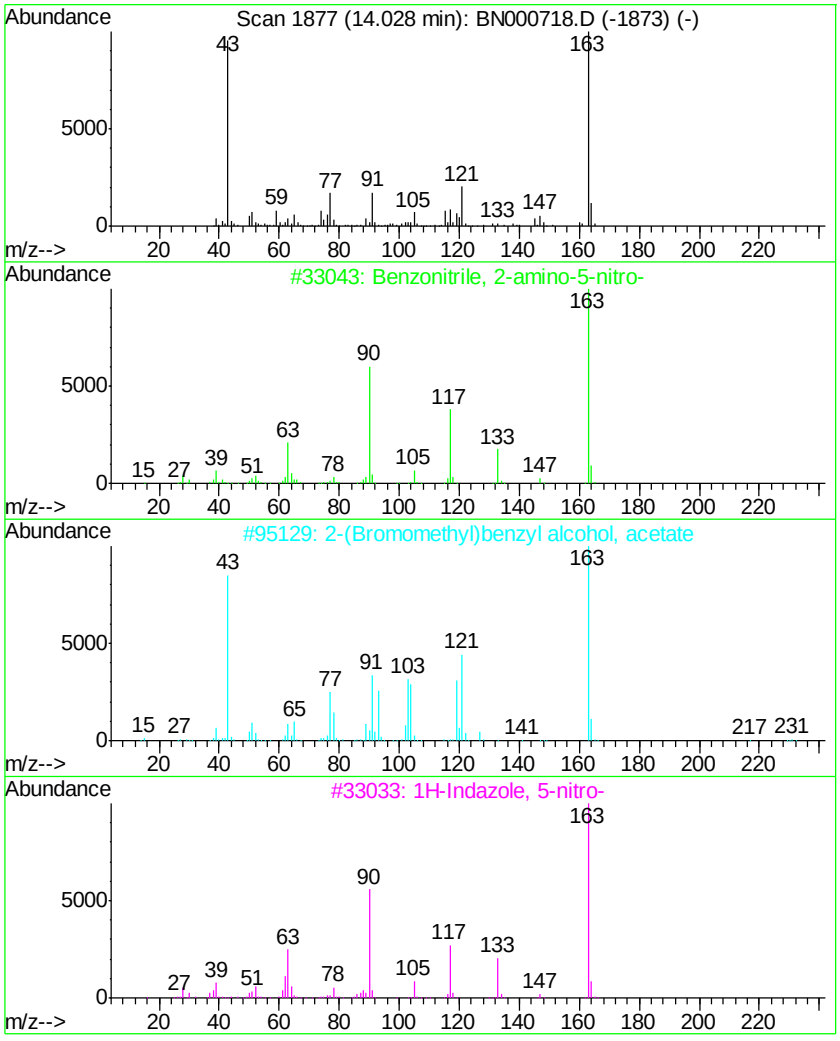
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

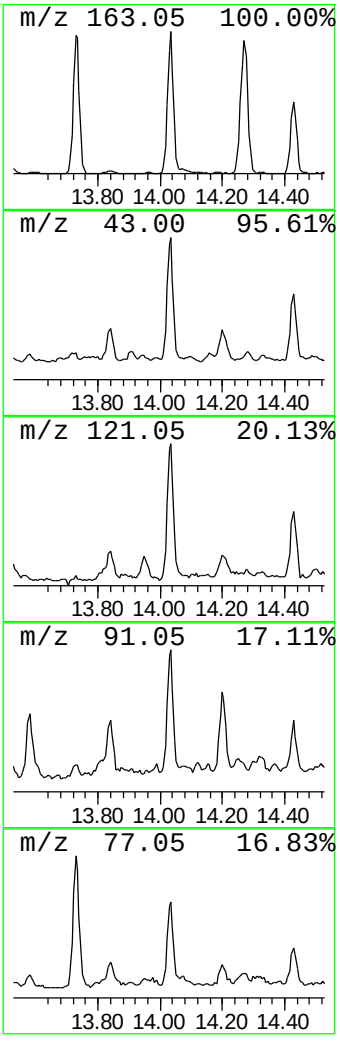
**********

Peak Number 14 Benzonitrile, 2-amino-5-nitro- Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.03 | 4.51 ng | 290636 | Acenaphthene-d10 | 14.26 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzonitrile, 2-amino-5-nitro- | 163 | C7H5N3O2 | 017420-30-3 | 59 |
| 2 | 2-(Bromomethyl)benzyl alcohol, a... | 242 | C10H11BrO2 | 1000364-47-7 | 53 |
| 3 | 1H-Indazole, 5-nitro- | 163 | C7H5N3O2 | 005401-94-5 | 53 |
| 4 | 4-Aminocinnamic acid | 163 | C9H9NO2 | 002393-18-2 | 50 |
| 5 | Phthalic acid, methyl 2-nitrophe... | 301 | C15H11NO6 | 1000315-68-3 | 50 |



Data Path : Z:\HPCHEM1\BNA N\DATA\BN040918\
Data File : BN000718.D
Acq On : 09 Apr 2018 20:17
Operator : JU/SJ
Sample : J2268-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** MH-92A

Quant Method : Z:\HPCHEM1\BNA_N\METHODS\8270-BN040918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

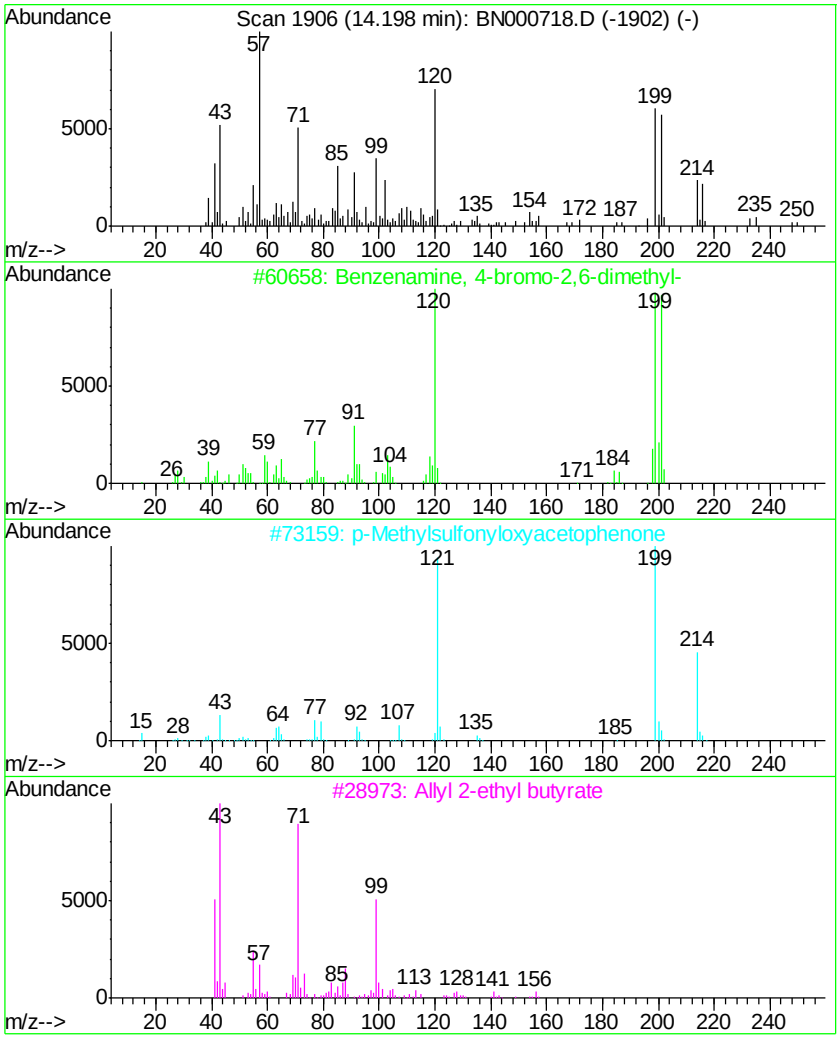
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

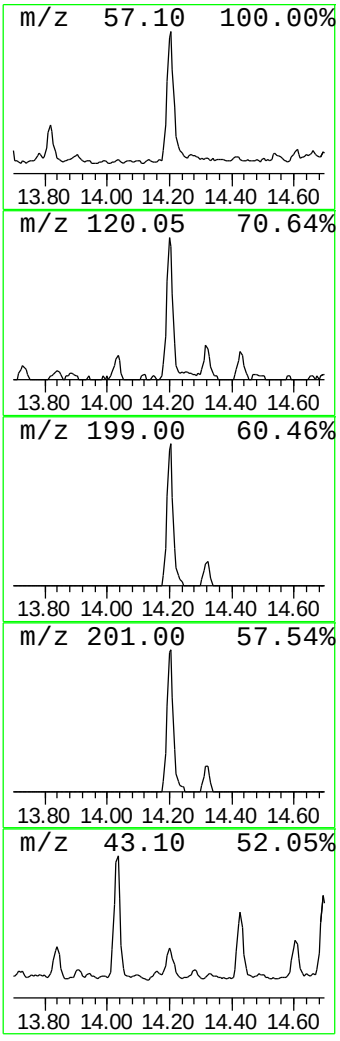
**********

Peak Number 15 unknown14.20 Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.20 | 4.46 ng | 286931 | Acenaphthene-d10 | 14.26 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzenamine, 4-bromo-2,6-dimethyl- | 199 | C8H10BrN | 024596-19-8 | 38 |
| 2 | p-Methylsulfonyloxyacetophenone | 214 | C9H10O4S | 069497-83-2 | 25 |
| 3 | Allyl 2-ethyl butyrate | 156 | C9H16O2 | 007493-69-8 | 15 |
| 4 | Silane, (iodomethyl)trimethyl- | 214 | C4H11ISi | 004206-67-1 | 15 |
| 5 | 4,4'-Ethylidenediphenol | 214 | C14H14O2 | 002081-08-5 | 14 |



Data Path : Z:\HPCHEM1\BNA N\DATA\BN040918\
Data File : BN000718.D
Acq On : 09 Apr 2018 20:17
Operator : JU/SJ
Sample : J2268-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** MH-92A

Quant Method : Z:\HPCHEM1\BNA_N\METHODS\8270-BN040918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

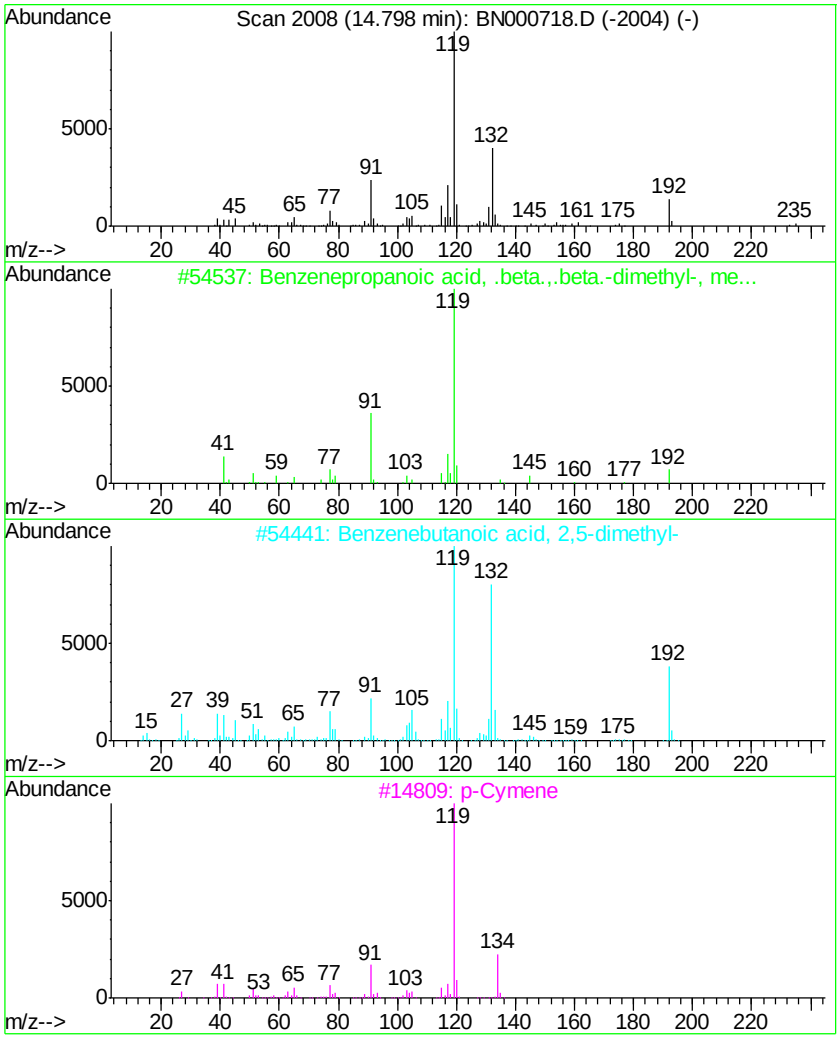
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

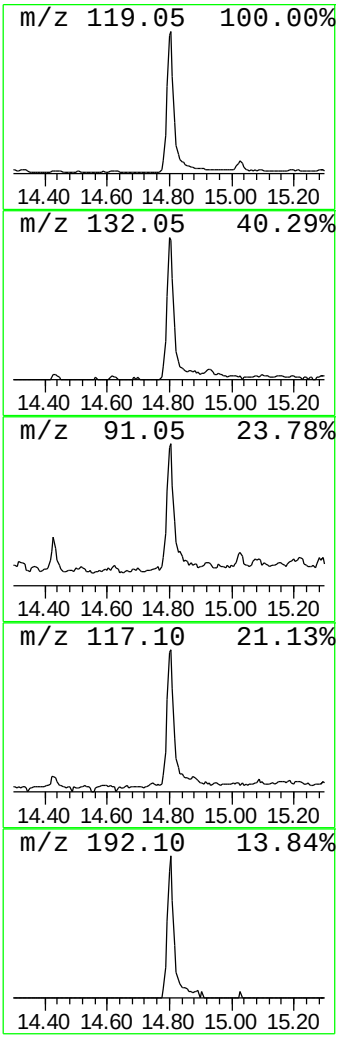
**********

Peak Number 16 Benzenepropanoic acid, .bet... Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.80 | 4.17 ng | 268698 | Acenaphthene-d10 | 14.26 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzenepropanoic acid, .beta.,.b... | 192 | C12H16O2 | 025080-84-6 | 52 |
| 2 | Benzenebutanoic acid, 2,5-dimethyl- | 192 | C12H16O2 | 001453-06-1 | 45 |
| 3 | p-Cymene | 134 | C10H14 | 000099-87-6 | 43 |
| 4 | Ethyl 1,3-dithiane-2-carboxylate | 192 | C7H12O2S2 | 020462-00-4 | 43 |
| 5 | 2,4,4,6-Tetramethyl-6-phenyl-1-h... | 230 | C17H26 | 1000293-27-9 | 43 |



Data Path : Z:\HPCHEM1\BNA N\DATA\BN040918\
Data File : BN000718.D
Acq On : 09 Apr 2018 20:17
Operator : JU/SJ
Sample : J2268-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** MH-92A

Quant Method : Z:\HPCHEM1\BNA_N\METHODS\8270-BN040918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

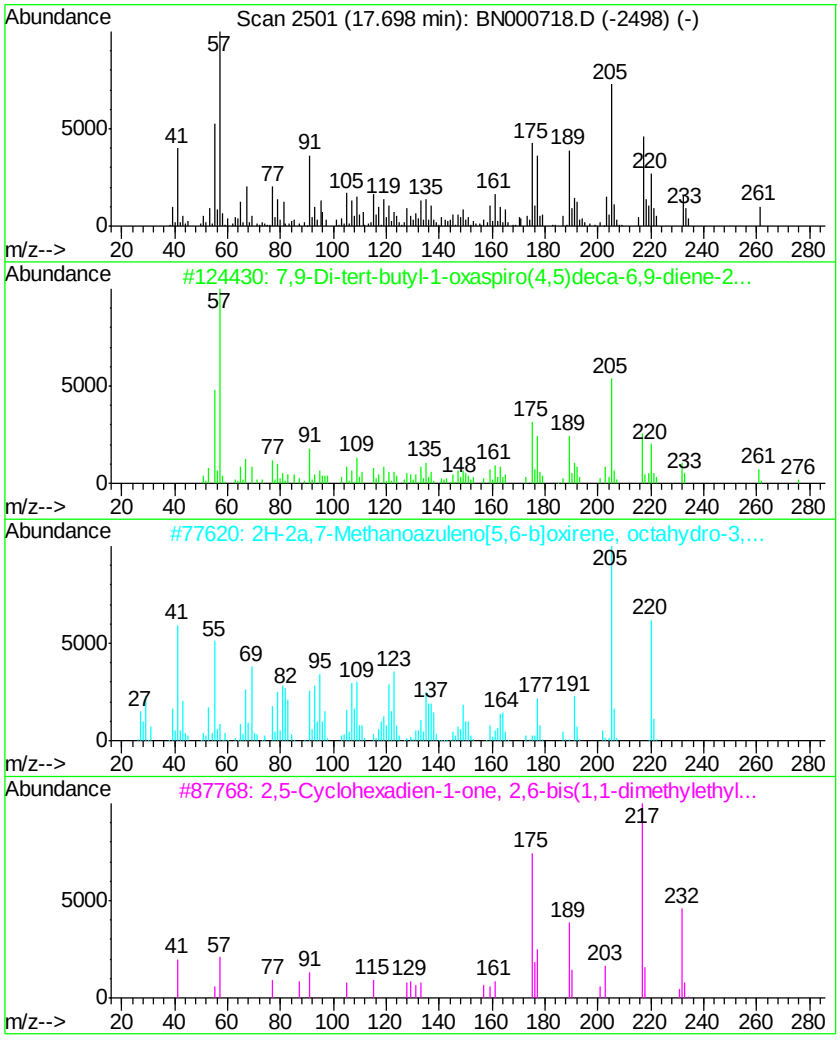
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

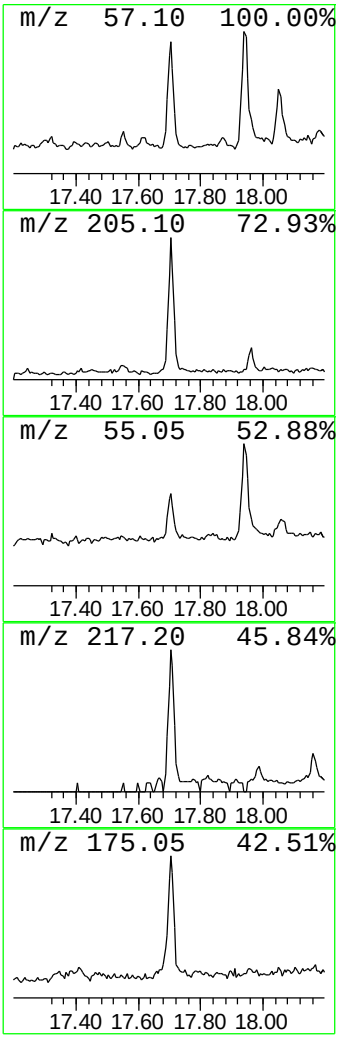
**********

Peak Number 17 7,9-Di-tert-butyl-1-oxaspir... Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.70 | 2.42 ng | 167406 | Phenanthrene-d10 | 17.01 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 7,9-Di-tert-butyl-1-oxaspiro(4,5... | 276 | C17H24O3 | 082304-66-3 | 99 |
| 2 | 2H-2a,7-Methanoazuleno[5,6-b]oxi... | 220 | C15H24O | 029597-36-2 | 42 |
| 3 | 2,5-Cyclohexadien-1-one, 2,6-bis... | 232 | C16H24O | 006738-27-8 | 42 |
| 4 | Butylated Hydroxytoluene | 220 | C15H24O | 000128-37-0 | 42 |
| 5 | 2,4-Diamino-6-nitroquinazoline | 205 | C8H7N5O2 | 007154-34-9 | 38 |



Data Path : Z:\HPCHEM1\BNA N\DATA\BN040918\
Data File : BN000718.D
Acq On : 09 Apr 2018 20:17
Operator : JU/SJ
Sample : J2268-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** MH-92A

Quant Method : Z:\HPCHEM1\BNA_N\METHODS\8270-BN040918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

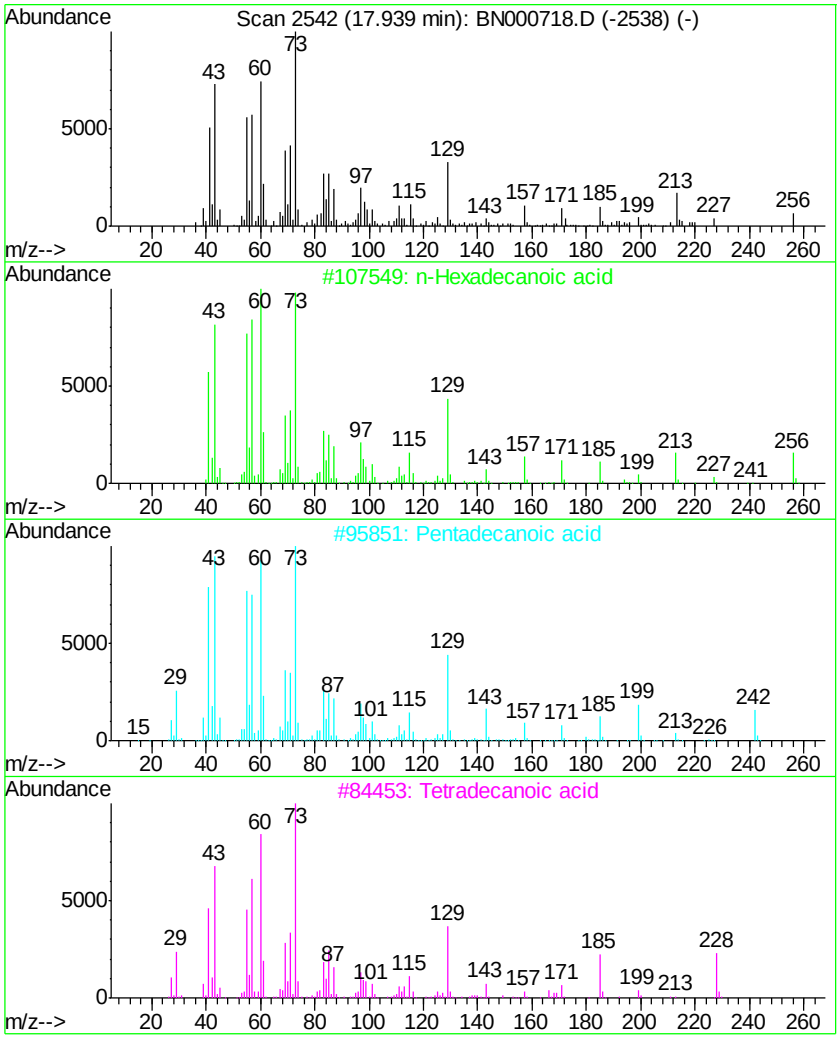
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

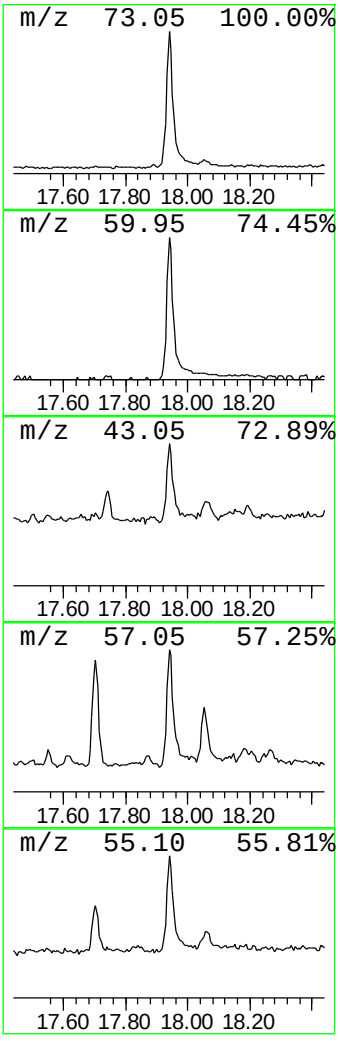
**********

Peak Number 18 n-Hexadecanoic acid Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.94 | 4.14 ng | 286317 | Phenanthrene-d10 | 17.01 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 97 |
| 2 | Pentadecanoic acid | 242 | C15H30O2 | 001002-84-2 | 83 |
| 3 | Tetradecanoic acid | 228 | C14H28O2 | 000544-63-8 | 80 |
| 4 | n-Decanoic acid | 172 | C10H20O2 | 000334-48-5 | 49 |
| 5 | Tridecanoic acid | 214 | C13H26O2 | 000638-53-9 | 43 |



Data Path : Z:\HPCHEM1\BNA N\DATA\BN040918\
Data File : BN000718.D
Acq On : 09 Apr 2018 20:17
Operator : JU/SJ
Sample : J2268-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** MH-92A

Quant Method : Z:\HPCHEM1\BNA_N\METHODS\8270-BN040918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

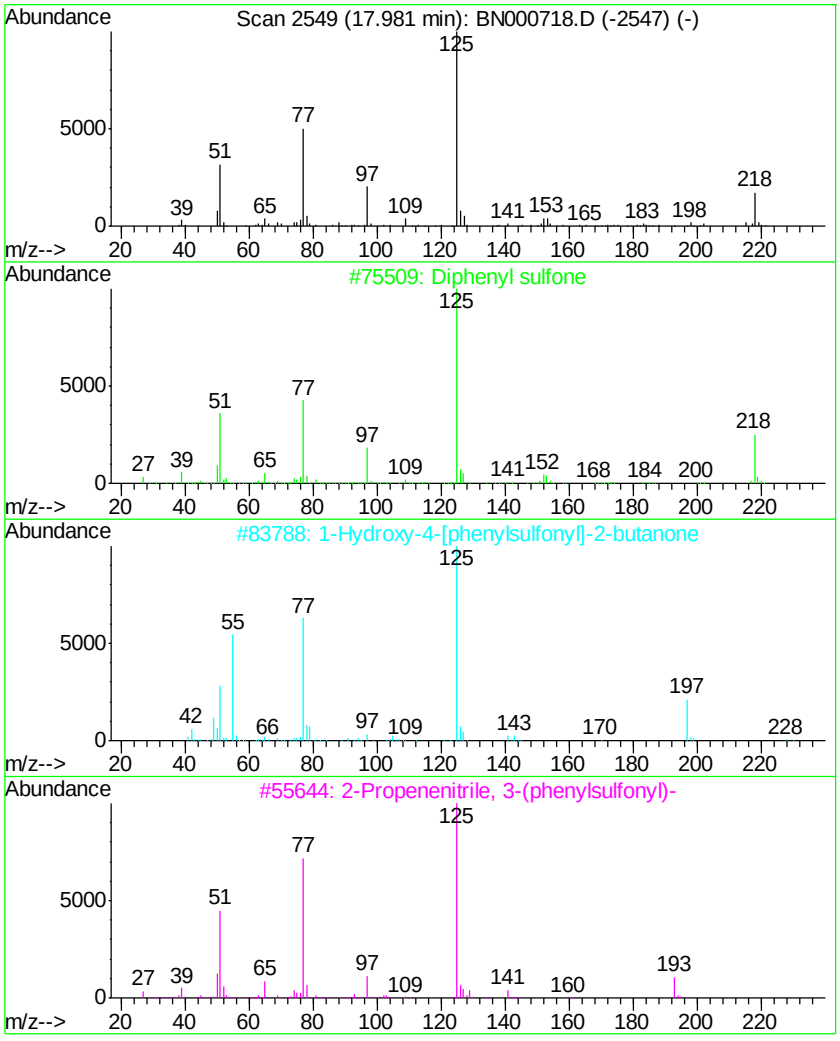
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

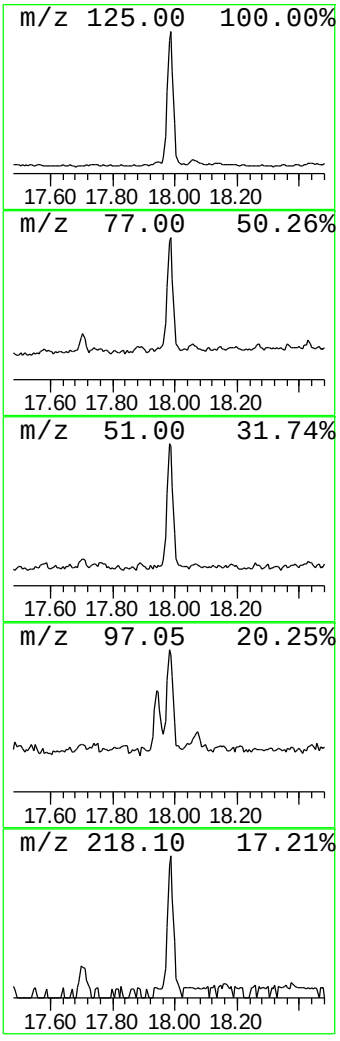
**********

Peak Number 19 Diphenyl sulfone Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.98 | 2.56 ng | 176624 | Phenanthrene-d10 | 17.01 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Diphenyl sulfone | 218 | C12H10O2S | 000127-63-9 | 81 |
| 2 | 1-Hydroxy-4-[phenylsulfonyl]-2-b... | 228 | C10H12O4S | 160956-37-6 | 50 |
| 3 | 2-Propenenitrile, 3-(phenylsulfo... | 193 | C9H7NO2S | 001424-51-7 | 50 |
| 4 | Pyridine, 4-(methylthio)- | 125 | C6H7NS | 022581-72-2 | 46 |
| 5 | Benzene, (ethenylsulfonyl)- | 168 | C8H8O2S | 005535-48-8 | 39 |



Data Path : Z:\HPCHEM1\BNA N\DATA\BN040918\
Data File : BN000718.D
Acq On : 09 Apr 2018 20:17
Operator : JU/SJ
Sample : J2268-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** MH-92A

Quant Method : Z:\HPCHEM1\BNA_N\METHODS\8270-BN040918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

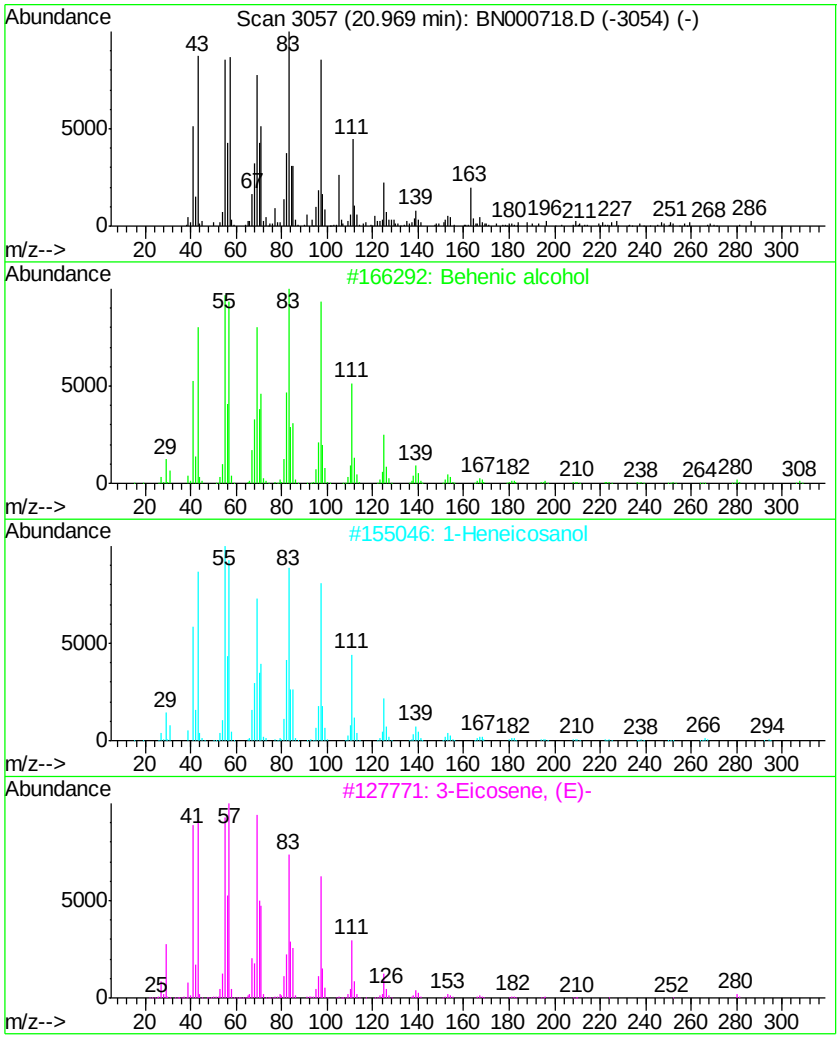
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

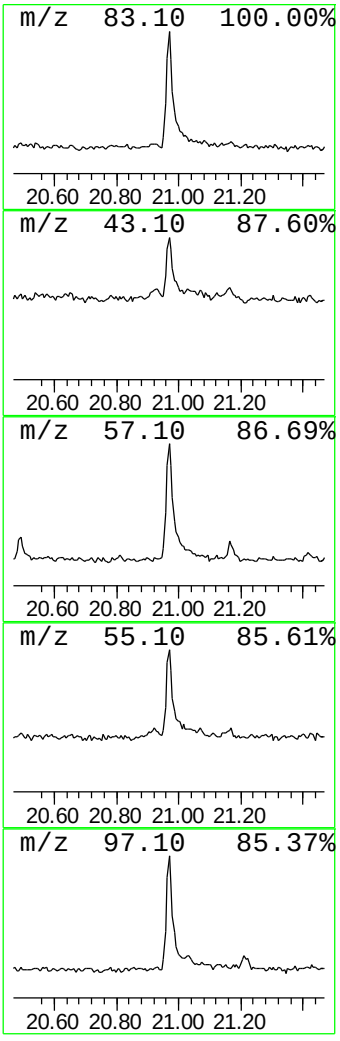
**********

Peak Number 20 Behenic alcohol Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.97 | 3.01 ng | 210276 | Chrysene-d12 | 21.22 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Behenic alcohol | 326 | C22H46O | 000661-19-8 | 95 |
| 2 | 1-Heneicosanol | 312 | C21H44O | 015594-90-8 | 94 |
| 3 | 3-Eicosene, (E)- | 280 | C20H40 | 074685-33-9 | 91 |
| 4 | 2- Chloropropionic acid, octadec... | 360 | C21H41ClO2 | 088104-31-8 | 90 |
| 5 | n-Nonadecanol-1 | 284 | C19H40O | 001454-84-8 | 90 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_N\DATA\BN040918\
Data File : BN000718.D
Acq On : 09 Apr 2018 20:17
Operator : JU/SJ
Sample : J2268-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** MH-92A

Quant Method : Z:\HPCHEM1\BNA_N\METHODS\8270-BN040918.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 |
| 2-Pentanone, 4-hy... | 4.82 | 3.8 | ng | 158925 | 1 | 7.63 | 848212 | 20.0 |
| Methane, tribromo- | 5.71 | 4.0 | ng | 169084 | 1 | 7.63 | 848212 | 20.0 |
| 2,5-Hexanedione | 6.08 | 2.8 | ng | 118869 | 1 | 7.63 | 848212 | 20.0 |
| unknown7.18 | 7.18 | 67.0 | ng | 2841630 | 1 | 7.63 | 848212 | 20.0 |
| 2-Propanol, 1-(2-... | 7.43 | 2.6 | ng | 108583 | 1 | 7.63 | 848212 | 20.0 |
| 1-Hexanol, 2-ethyl- | 7.71 | 4.0 | ng | 170750 | 1 | 7.63 | 848212 | 20.0 |
| Benzenemethanol, ... | 8.73 | 9.2 | ng | 389600 | 1 | 7.63 | 848212 | 20.0 |
| unknown9.02 | 9.02 | 2.4 | ng | 103517 | 1 | 7.63 | 848212 | 20.0 |
| Phenol, 2-(1-meth... | 10.33 | 6.3 | ng | 346062 | 2 | 10.40 | 1090510 | 20.0 |
| Phenol, 4-(1-meth... | 10.76 | 6.9 | ng | 378328 | 2 | 10.40 | 1090510 | 20.0 |
| 1,2-Benzisothiazole | 11.04 | 2.5 | ng | 133671 | 2 | 10.40 | 1090510 | 20.0 |
| unknown13.84 | 13.84 | 2.5 | ng | 164055 | 3 | 14.26 | 1288070 | 20.0 |
| Benzonitrile, 2-a... | 14.03 | 4.5 | ng | 290636 | 3 | 14.26 | 1288070 | 20.0 |
| unknown14.20 | 14.20 | 4.5 | ng | 286931 | 3 | 14.26 | 1288070 | 20.0 |
| Benzenepropanoic ... | 14.80 | 4.2 | ng | 268698 | 3 | 14.26 | 1288070 | 20.0 |
| 7,9-Di-tert-butyl... | 17.70 | 2.4 | ng | 167406 | 4 | 17.01 | 1381530 | 20.0 |
| n-Hexadecanoic acid | 17.94 | 4.1 | ng | 286317 | 4 | 17.01 | 1381530 | 20.0 |
| Diphenyl sulfone | 17.98 | 2.6 | ng | 176624 | 4 | 17.01 | 1381530 | 20.0 |
| Behenic alcohol | 20.97 | 3.0 | ng | 210276 | 5 | 21.22 | 1396170 | 20.0 |