LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM111717\
Data File : BM012998.D
Acq On : 17 Nov 2017 13:31
Operator : SJ/JU
Sample : I6361-15
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BE2R7

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % 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_M\METHODS\SOM-EPA-BM111617.M
Title : SVOA CALIBRATION

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 3.769 | 108 | 116 | 127 | rVB | 2007531 | 3006574 | 2.22% | 0.443% |
| 2 | 3.975 | 146 | 151 | 160 | rVB | 3950166 | 5176474 | 3.82% | 0.762% |
| 3 | 4.946 | 307 | 316 | 324 | rVB | 900190 | 1501797 | 1.11% | 0.221% |
| 4 | 5.081 | 327 | 339 | 350 | rBV | 21545351 | 31764999 | 23.44% | 4.678% |
| 5 | 5.210 | 350 | 361 | 365 | rBV | 1365725 | 2151938 | 1.59% | 0.317% |
| 6 | 5.269 | 365 | 371 | 382 | rVB | 19336256 | 28487068 | 21.02% | 4.195% |
| 7 | 5.416 | 382 | 396 | 402 | rBV3 | 71213022 | 135508275 | 100.00% | 19.955% |
| 8 | 5.475 | 402 | 406 | 414 | rVB2 | 2696084 | 4084248 | 3.01% | 0.601% |
| 9 | 5.769 | 448 | 456 | 463 | rBV | 28858490 | 41442038 | 30.58% | 6.103% |
| 10 | 6.234 | 524 | 535 | 544 | rBV | 1555373 | 3018913 | 2.23% | 0.445% |
| 11 | 6.416 | 555 | 566 | 575 | rBV | 13170657 | 19199250 | 14.17% | 2.827% |
| 12 | 6.716 | 607 | 617 | 620 | rBV2 | 2344004 | 4477694 | 3.30% | 0.659% |
| 13 | 6.822 | 629 | 635 | 640 | rBV | 2383594 | 3502513 | 2.58% | 0.516% |
| 14 | 6.957 | 653 | 658 | 663 | rVB | 2139096 | 3208118 | 2.37% | 0.472% |
| 15 | 7.122 | 680 | 686 | 690 | rBV | 2293073 | 3367156 | 2.48% | 0.496% |
| 16 | 7.275 | 706 | 712 | 723 | rVB3 | 1543575 | 3300379 | 2.44% | 0.486% |
| 17 | 7.381 | 723 | 730 | 735 | rBV | 9533168 | 14298005 | 10.55% | 2.105% |
| 18 | 7.434 | 735 | 739 | 744 | rVB | 3938574 | 5721125 | 4.22% | 0.842% |
| 19 | 7.757 | 791 | 794 | 800 | rVV2 | 1054063 | 1663502 | 1.23% | 0.245% |
| 20 | 7.840 | 800 | 808 | 814 | rVV | 3393786 | 5291415 | 3.90% | 0.779% |
| 21 | 7.934 | 818 | 824 | 830 | rVB | 9452539 | 13938783 | 10.29% | 2.053% |
| 22 | 8.092 | 845 | 851 | 855 | rVV2 | 1286892 | 2514427 | 1.86% | 0.370% |
| 23 | 8.175 | 855 | 865 | 869 | rVV | 21710650 | 37430602 | 27.62% | 5.512% |
| 24 | 8.216 | 869 | 872 | 878 | rVB2 | 1138865 | 1726389 | 1.27% | 0.254% |
| 25 | 8.281 | 878 | 883 | 888 | rBV | 1464926 | 2075936 | 1.53% | 0.306% |
| 26 | 8.363 | 888 | 897 | 905 | rVV | 11392365 | 19532603 | 14.41% | 2.876% |
| 27 | 8.722 | 953 | 958 | 964 | rVB2 | 953922 | 1748636 | 1.29% | 0.258% |
| 28 | 8.828 | 972 | 976 | 980 | rVB | 1183406 | 1615312 | 1.19% | 0.238% |
| 29 | 8.963 | 993 | 999 | 1010 | rVB2 | 1982681 | 4531577 | 3.34% | 0.667% |
| 30 | 9.522 | 1088 | 1094 | 1101 | rBV3 | 1716676 | 3446367 | 2.54% | 0.508% |
| 31 | 9.698 | 1119 | 1124 | 1131 | rBV | 1080300 | 1919802 | 1.42% | 0.283% |
| 32 | 9.892 | 1152 | 1157 | 1159 | rBV | 2391071 | 3456420 | 2.55% | 0.509% |
| 33 | 9.939 | 1159 | 1165 | 1170 | rVB | 14071913 | 23318686 | 17.21% | 3.434% |
| 34 | 10.022 | 1170 | 1179 | 1189 | rVB | 13220495 | 24205006 | 17.86% | 3.564% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM111717\
Data File : BM012998.D
Acq On : 17 Nov 2017 13:31
Operator : SJ/JU
Sample : I6361-15
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BE2R7

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % 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_M\METHODS\SOM-EPA-BM111617.M
Title : SVOA CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 10.134 | 1194 | 1198 | 1207 | rVB5 | 910988 | 1990261 | 1.47% | 0.293% |
| 36 | 10.222 | 1207 | 1213 | 1215 | rBV4 | 914406 | 1634284 | 1.21% | 0.241% |
| 37 | 10.257 | 1215 | 1219 | 1222 | rVV2 | 1694217 | 3091757 | 2.28% | 0.455% |
| 38 | 10.292 | 1222 | 1225 | 1228 | rVV | 1319109 | 1876839 | 1.39% | 0.276% |
| 39 | 10.334 | 1228 | 1232 | 1236 | rVV | 1242749 | 1817509 | 1.34% | 0.268% |
| 40 | 10.392 | 1236 | 1242 | 1247 | rVB | 1582175 | 2705630 | 2.00% | 0.398% |
| 41 | 10.686 | 1289 | 1292 | 1296 | rVV4 | 1010357 | 1693735 | 1.25% | 0.249% |
| 42 | 10.904 | 1325 | 1329 | 1337 | rVB3 | 1514604 | 2923295 | 2.16% | 0.430% |
| 43 | 11.104 | 1359 | 1363 | 1373 | rVB3 | 1087373 | 2109254 | 1.56% | 0.311% |
| 44 | 11.345 | 1394 | 1404 | 1408 | rBV4 | 814584 | 1835084 | 1.35% | 0.270% |
| 45 | 11.451 | 1418 | 1422 | 1428 | rVB | 915967 | 1411169 | 1.04% | 0.208% |
| 46 | 11.533 | 1428 | 1436 | 1441 | rBV2 | 1721371 | 4267052 | 3.15% | 0.628% |
| 47 | 11.598 | 1441 | 1447 | 1462 | rVB | 5876449 | 11618485 | 8.57% | 1.711% |
| 48 | 11.728 | 1463 | 1469 | 1474 | rBV5 | 852157 | 1697863 | 1.25% | 0.250% |
| 49 | 11.780 | 1474 | 1478 | 1483 | rVB3 | 883068 | 1401860 | 1.03% | 0.206% |
| 50 | 11.863 | 1483 | 1492 | 1500 | rBV2 | 2855284 | 6739218 | 4.97% | 0.992% |
| 51 | 12.339 | 1567 | 1573 | 1581 | rBV6 | 810171 | 1970865 | 1.45% | 0.290% |
| 52 | 12.769 | 1640 | 1646 | 1655 | rBV | 4724259 | 7420103 | 5.48% | 1.093% |
| 53 | 12.851 | 1655 | 1660 | 1666 | rVB | 1000214 | 1593928 | 1.18% | 0.235% |
| 54 | 12.922 | 1667 | 1672 | 1681 | rVB | 2929720 | 4812375 | 3.55% | 0.709% |
| 55 | 13.498 | 1764 | 1770 | 1776 | rBV2 | 2010328 | 3358665 | 2.48% | 0.495% |
| 56 | 13.786 | 1812 | 1819 | 1821 | rBV | 2084618 | 3812355 | 2.81% | 0.561% |
| 57 | 13.974 | 1830 | 1851 | 1855 | rBV2 | 12458273 | 45654121 | 33.69% | 6.723% |
| 58 | 14.022 | 1855 | 1859 | 1862 | rVV2 | 2002437 | 3218066 | 2.37% | 0.474% |
| 59 | 14.057 | 1862 | 1865 | 1874 | rVB | 2321986 | 3454506 | 2.55% | 0.509% |
| 60 | 14.233 | 1887 | 1895 | 1901 | rBV3 | 726839 | 1455152 | 1.07% | 0.214% |
| 61 | 14.369 | 1912 | 1918 | 1922 | rBV3 | 2422158 | 3703167 | 2.73% | 0.545% |
| 62 | 14.416 | 1922 | 1926 | 1933 | rVB5 | 2212850 | 3912213 | 2.89% | 0.576% |
| 63 | 14.757 | 1975 | 1984 | 1990 | rBV5 | 1206329 | 2848073 | 2.10% | 0.419% |
| 64 | 14.827 | 1990 | 1996 | 2002 | rVV | 904650 | 1510289 | 1.11% | 0.222% |
| 65 | 14.998 | 2020 | 2025 | 2033 | rVB2 | 1679284 | 2606583 | 1.92% | 0.384% |
| 66 | 15.133 | 2042 | 2048 | 2055 | rBV2 | 1299154 | 2460910 | 1.82% | 0.362% |
| 67 | 15.274 | 2066 | 2072 | 2076 | rBV2 | 1334747 | 1979272 | 1.46% | 0.291% |
| 68 | 15.363 | 2082 | 2087 | 2088 | rBV | 3190705 | 4262651 | 3.15% | 0.628% |
| 69 | 15.380 | 2088 | 2090 | 2095 | rVB | 4095878 | 5034775 | 3.72% | 0.741% |
| 70 | 15.468 | 2100 | 2105 | 2111 | rBV4 | 1130458 | 1989198 | 1.47% | 0.293% |
| 71 | 15.892 | 2170 | 2177 | 2186 | rVB | 3979749 | 6617697 | 4.88% | 0.975% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM111717\
Data File : BM012998.D
Acq On : 17 Nov 2017 13:31
Operator : SJ/JU
Sample : I6361-15
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BE2R7

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % 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_M\METHODS\SOM-EPA-BM111617.M
Title : SVOA CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 16.080 | 2201 | 2209 | 2213 | rVV2 | 1949735 | 4490950 | 3.31% | 0.661% |
| 73 | 16.421 | 2260 | 2267 | 2271 | rBV3 | 1282297 | 2984347 | 2.20% | 0.439% |
| 74 | 16.592 | 2292 | 2296 | 2300 | rBV | 1311687 | 1661451 | 1.23% | 0.245% |
| 75 | 16.639 | 2300 | 2304 | 2312 | rVV4 | 930206 | 1688151 | 1.25% | 0.249% |
| 76 | 16.874 | 2341 | 2344 | 2349 | rVB | 1835599 | 2591900 | 1.91% | 0.382% |
| 77 | 17.110 | 2379 | 2384 | 2393 | rVB2 | 1891499 | 2988287 | 2.21% | 0.440% |
| 78 | 17.210 | 2396 | 2401 | 2409 | rVB | 2998572 | 4208165 | 3.11% | 0.620% |
| 79 | 17.815 | 2496 | 2504 | 2508 | rBV | 4217149 | 7058688 | 5.21% | 1.039% |
| 80 | 18.251 | 2573 | 2578 | 2582 | rBV2 | 1144819 | 1961475 | 1.45% | 0.289% |
| 81 | 18.309 | 2584 | 2588 | 2595 | rVB | 925247 | 1505465 | 1.11% | 0.222% |
| 82 | 18.380 | 2595 | 2600 | 2609 | rBV2 | 2552923 | 3476409 | 2.57% | 0.512% |
| 83 | 18.868 | 2676 | 2683 | 2690 | rBV | 1591985 | 2452056 | 1.81% | 0.361% |
| 84 | 19.239 | 2741 | 2746 | 2752 | rBV3 | 1119812 | 1808653 | 1.33% | 0.266% |
| 85 | 19.503 | 2786 | 2791 | 2796 | rVB | 3354146 | 4465492 | 3.30% | 0.658% |
| 86 | 19.568 | 2797 | 2802 | 2810 | rVB | 1399701 | 2011678 | 1.48% | 0.296% |
| 87 | 21.292 | 3090 | 3095 | 3101 | rVB | 1963032 | 2440268 | 1.80% | 0.359% |
| 88 | 23.386 | 3444 | 3451 | 3459 | rVB2 | 2605996 | 4699033 | 3.47% | 0.692% |
| 89 | 23.527 | 3469 | 3475 | 3484 | rVB | 1259810 | 2467662 | 1.82% | 0.363% |

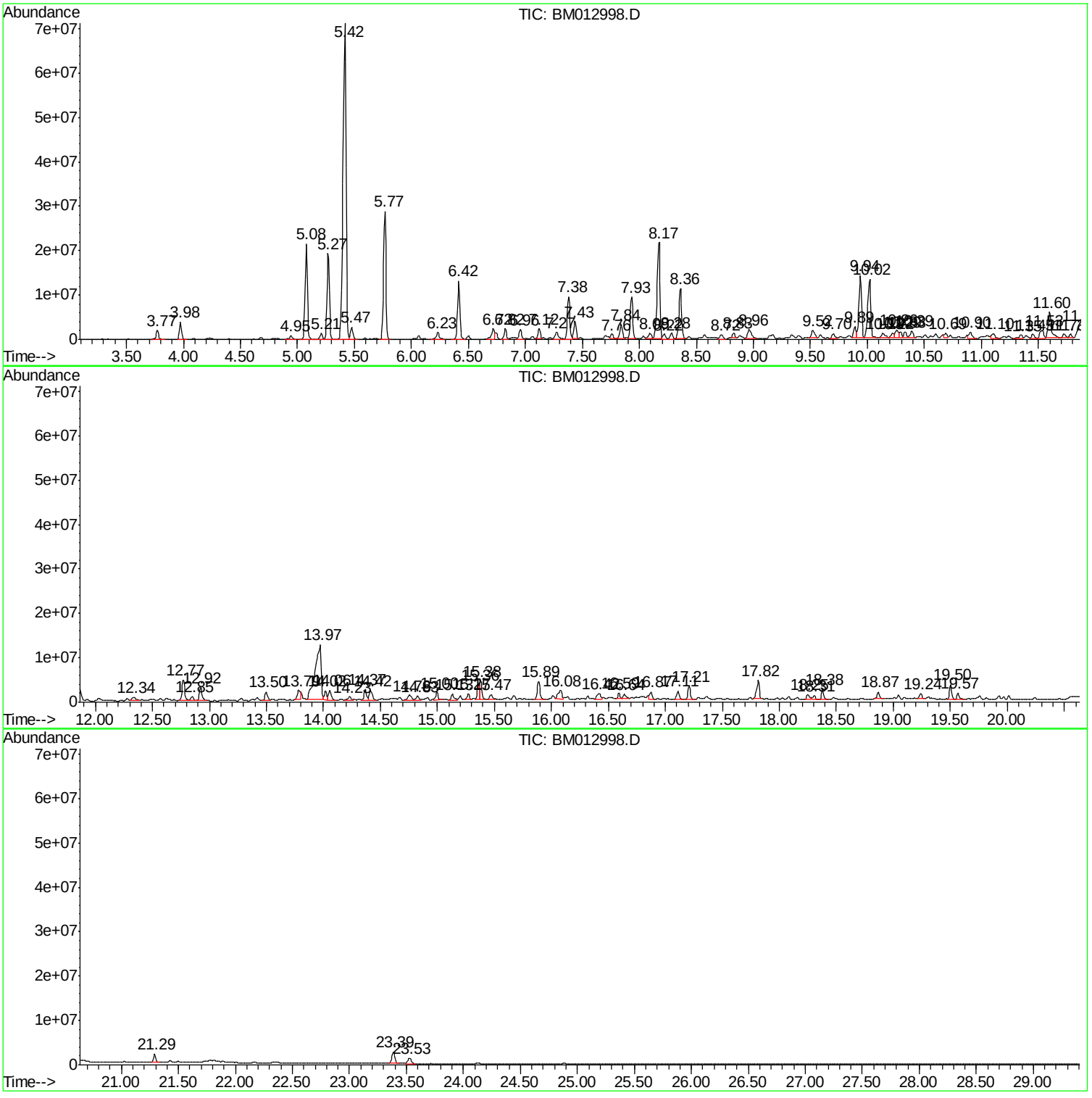
Sum of corrected areas: 679080416

Data Path : Z:\HPCHEM1\BNA M\DATA\BM111717\
Data File : BM012998.D
Acq On : 17 Nov 2017 13:31
Operator : SJ/JU
Sample : I6361-15
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BE2R7

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM111617.M
Quant Title : SVOA CALIBRATION

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



Data Path : Z:\HPCHEM1\BNA M\DATA\BM111717\
Data File : BM012998.D
Acq On : 17 Nov 2017 13:31
Operator : SJ/JU
Sample : I6361-15
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BE2R7

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM111617.M
Quant Title : SVOA CALIBRATION

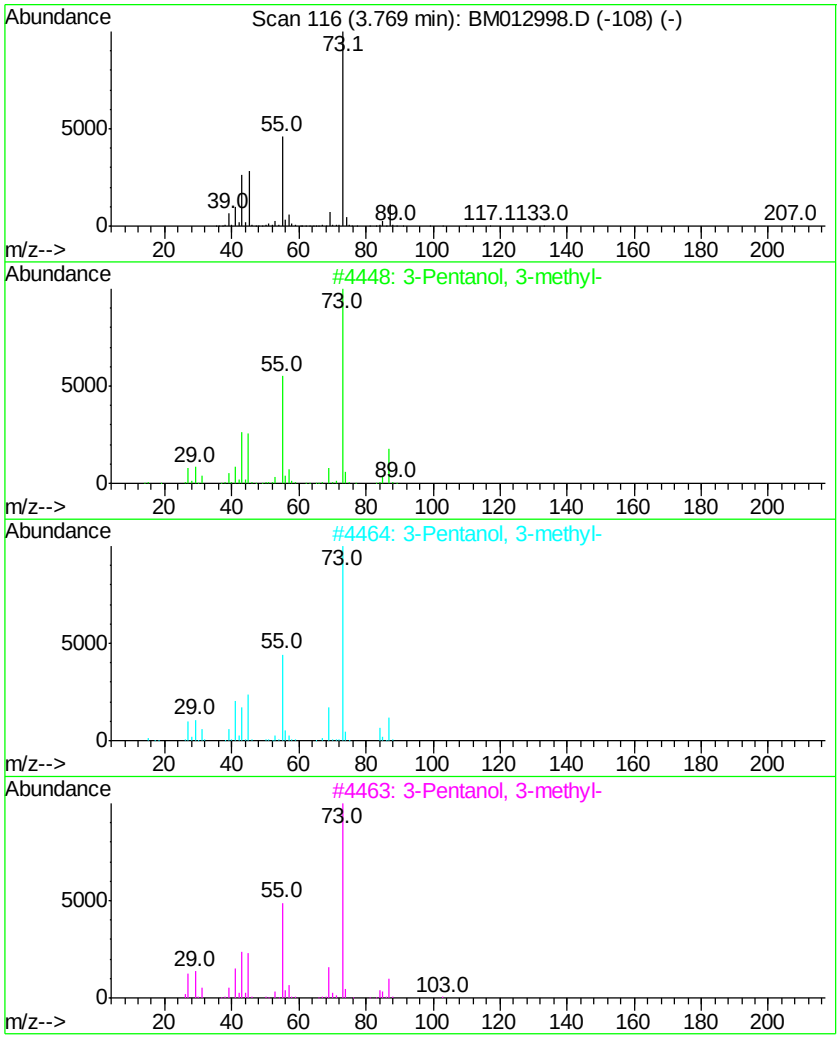
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

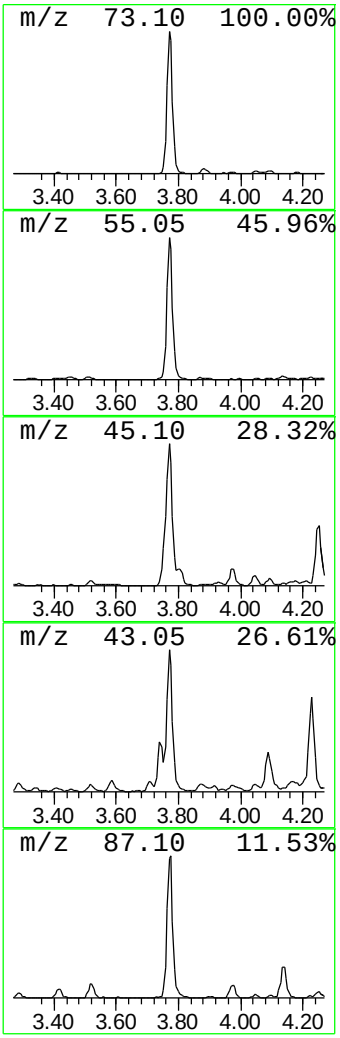
**********

Peak Number 1 3-Pentanol, 3-methyl- Concentration Rank 26

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 3.77 | 36.15 ng/ul | 3006570 | 1,4-Dichlorobenzene-d4 | 7.73 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Pentanol, 3-methyl- | 102 | C6H14O | 000077-74-7 | 72 |
| 2 | 3-Pentanol, 3-methyl- | 102 | C6H14O | 000077-74-7 | 64 |
| 3 | 3-Pentanol, 3-methyl- | 102 | C6H14O | 000077-74-7 | 59 |
| 4 | 1,3-Dioxolane, 2-methyl- | 88 | C4H8O2 | 000497-26-7 | 43 |
| 5 | 3-Pentanol, 2,4-dimethyl- | 116 | C7H16O | 000600-36-2 | 38 |



Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM111717\
Data File : BM012998.D
Acq On : 17 Nov 2017 13:31
Operator : SJ/JU
Sample : I6361-15
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BE2R7

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM111617.M
Quant Title : SVOA CALIBRATION

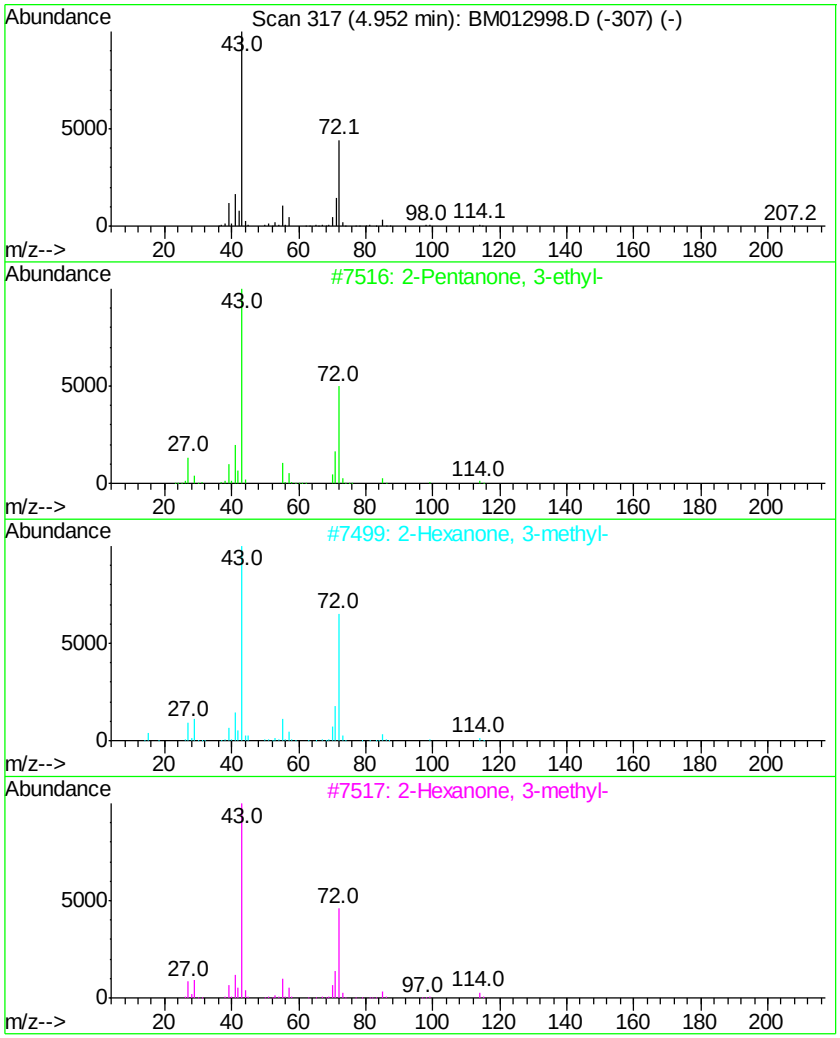
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

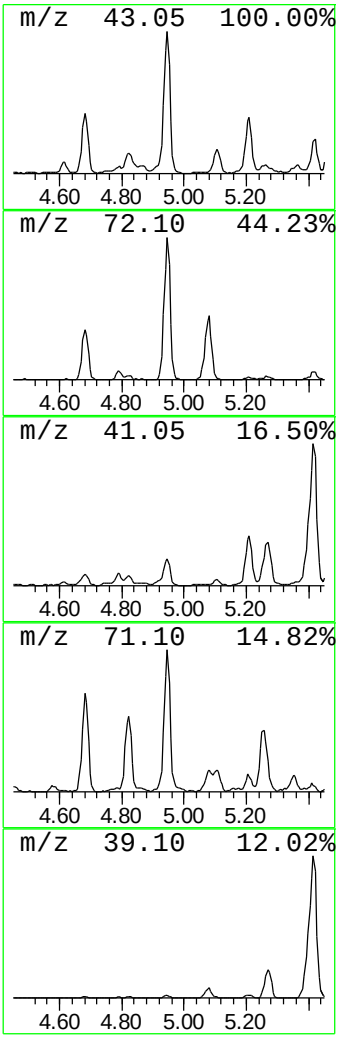
**********

Peak Number 3 2-Pentanone, 3-ethyl- Concentration Rank 44

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.95 | 18.06 ng/ul | 1501800 | 1,4-Dichlorobenzene-d4 | 7.73 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pentanone, 3-ethyl- | 114 | C7H14O | 006137-03-7 | 91 |
| 2 | 2-Hexanone, 3-methyl- | 114 | C7H14O | 002550-21-2 | 80 |
| 3 | 2-Hexanone, 3-methyl- | 114 | C7H14O | 002550-21-2 | 74 |
| 4 | 2-Hexanone, 3-methyl- | 114 | C7H14O | 002550-21-2 | 72 |
| 5 | Propanal, 2-methyl- | 72 | C4H8O | 000078-84-2 | 59 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM111717\
Data File : BM012998.D
Acq On : 17 Nov 2017 13:31
Operator : SJ/JU
Sample : I6361-15
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BE2R7

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM111617.M
Quant Title : SVOA CALIBRATION

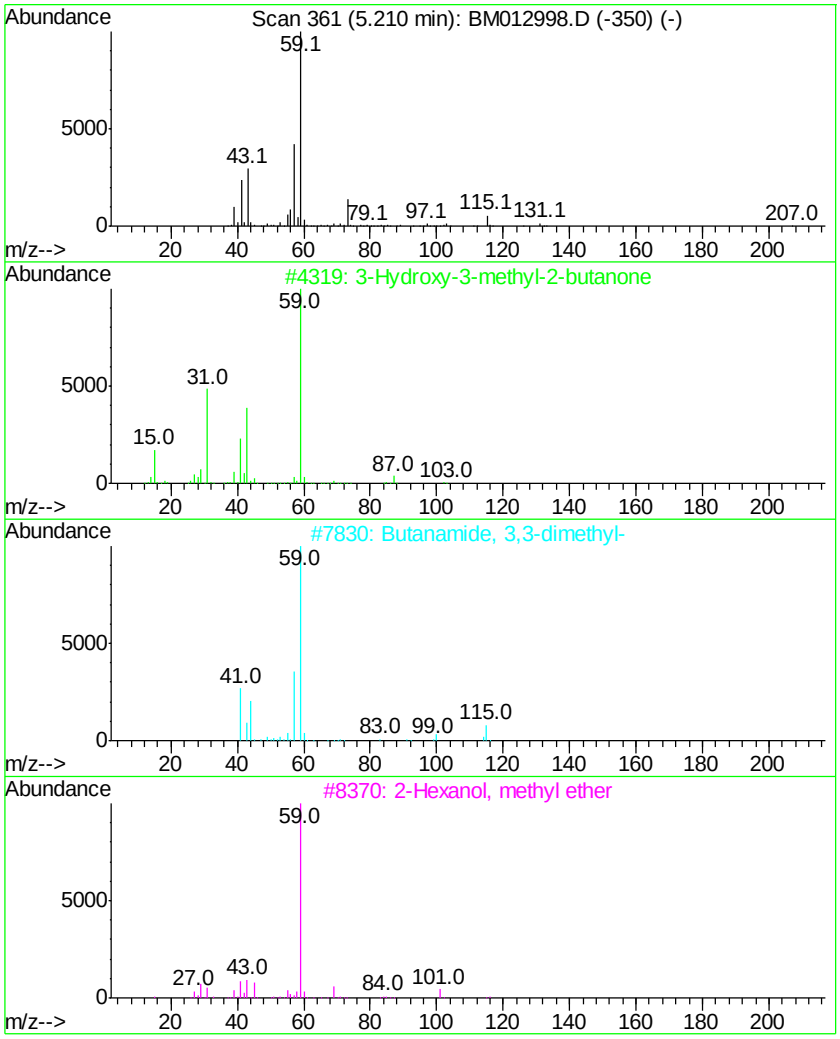
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

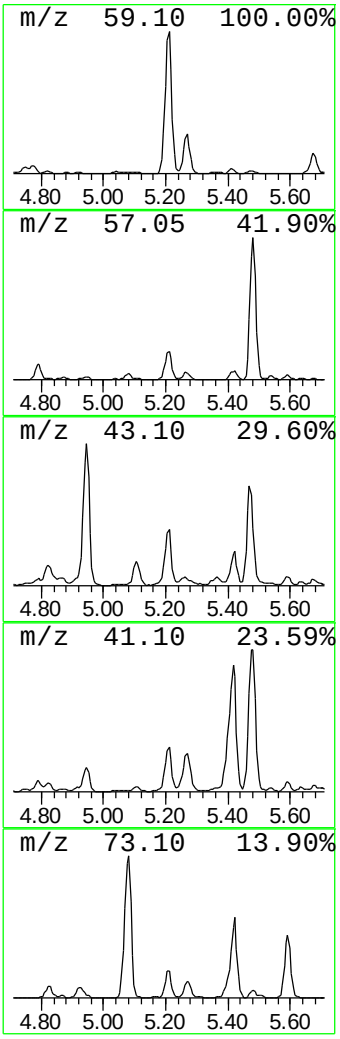
**********

Peak Number 5 3-Hydroxy-3-methyl-2-butanone Concentration Rank 31

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.21 | 25.87 ng/ul | 2151940 | 1,4-Dichlorobenzene-d4 | 7.73 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Hydroxy-3-methyl-2-butanone | 102 | C5H10O2 | 000115-22-0 | 53 |
| 2 | Butanamide, 3,3-dimethyl- | 115 | C6H13NO | 000926-04-5 | 45 |
| 3 | 2-Hexanol, methyl ether | 116 | C7H16O | 1000333-92-0 | 42 |
| 4 | Pentane, 2-methoxy- | 102 | C6H14O | 006795-88-6 | 42 |
| 5 | Butane, 1-ethoxy- | 102 | C6H14O | 000628-81-9 | 40 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM111717\
Data File : BM012998.D
Acq On : 17 Nov 2017 13:31
Operator : SJ/JU
Sample : I6361-15
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BE2R7

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM111617.M
Quant Title : SVOA CALIBRATION

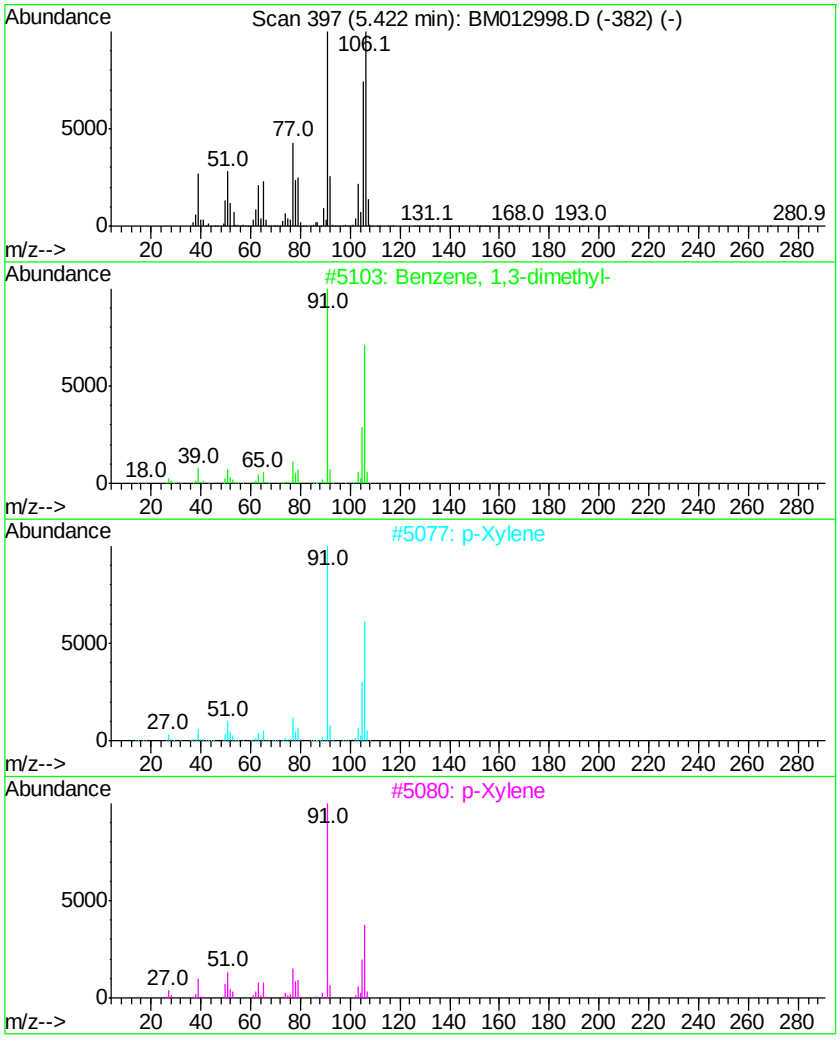
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

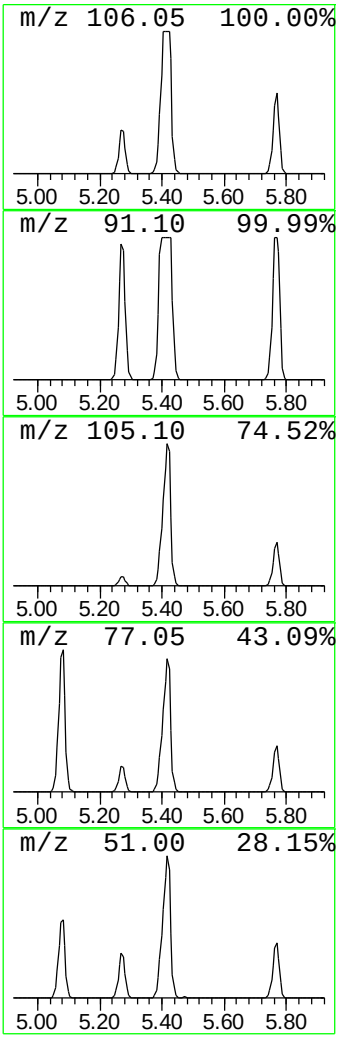
**********

Peak Number 7 Benzene, 1,3-dimethyl- Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.42 | 1629.19 ng/ul | 135508000 | 1,4-Dichlorobenzene-d4 | 7.73 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1,3-dimethyl- | 106 | C8H10 | 000108-38-3 | 87 |
| 2 | p-Xylene | 106 | C8H10 | 000106-42-3 | 76 |
| 3 | p-Xylene | 106 | C8H10 | 000106-42-3 | 64 |
| 4 | o-Xylene | 106 | C8H10 | 000095-47-6 | 64 |
| 5 | 1,3-Cyclopentadiene, 5-(1-methyl... | 106 | C8H10 | 002175-91-9 | 62 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM111717\
Data File : BM012998.D
Acq On : 17 Nov 2017 13:31
Operator : SJ/JU
Sample : I6361-15
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BE2R7

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM111617.M
Quant Title : SVOA CALIBRATION

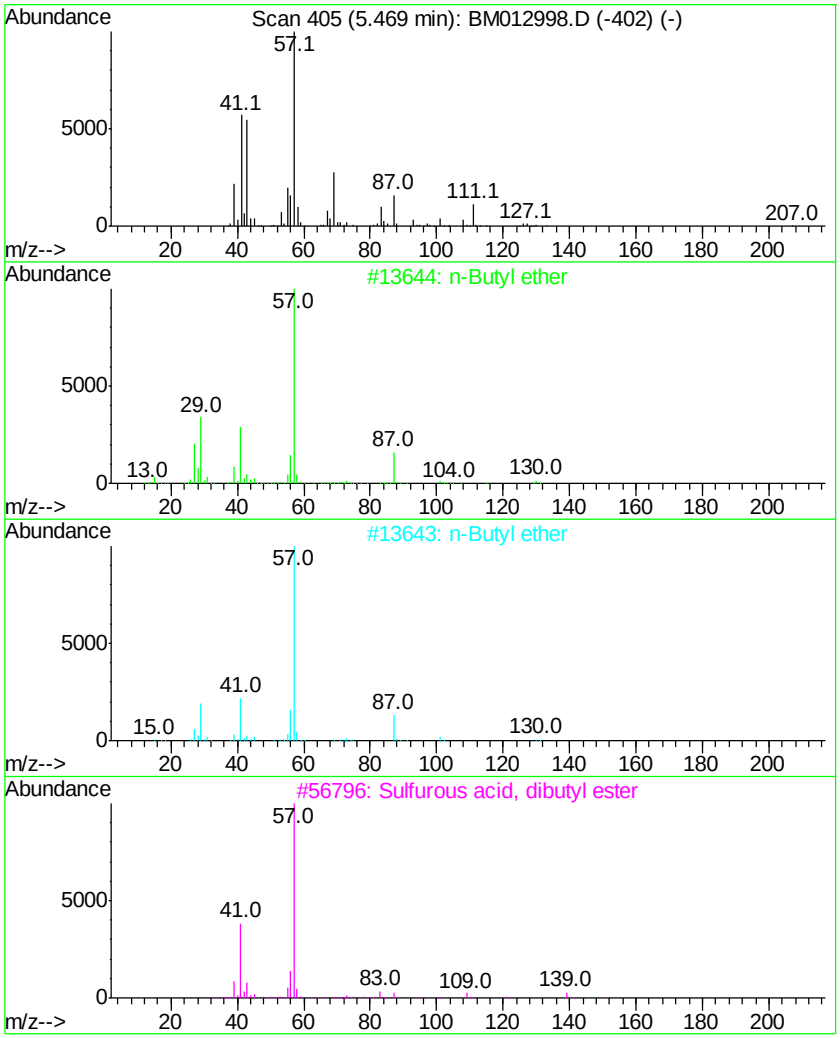
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

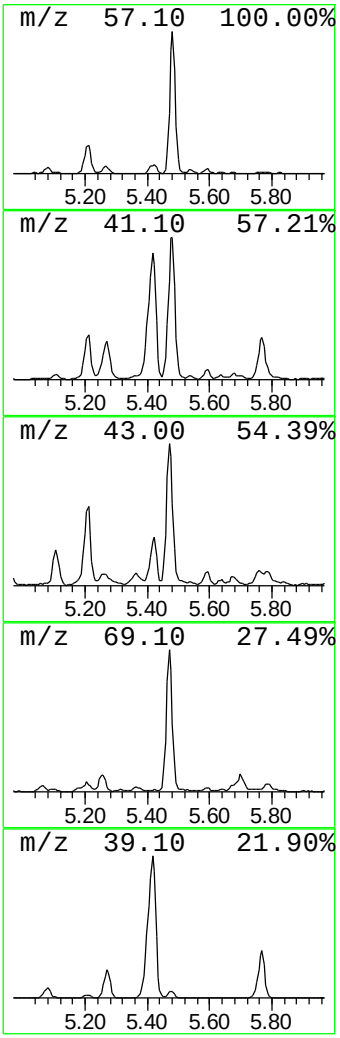
**********

Peak Number 8 n-Butyl ether Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.47 | 49.10 ng/ul | 4084250 | 1,4-Dichlorobenzene-d4 | 7.73 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | n-Butyl ether | 130 | C8H18O | 000142-96-1 | 50 |
| 2 | n-Butyl ether | 130 | C8H18O | 000142-96-1 | 50 |
| 3 | Sulfurous acid, dibutyl ester | 194 | C8H18O3S | 000626-85-7 | 43 |
| 4 | 1-Butene, 4-butoxy- | 128 | C8H16O | 034061-76-2 | 38 |
| 5 | Isobutyl ether | 130 | C8H18O | 000628-55-7 | 37 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM111717\
Data File : BM012998.D
Acq On : 17 Nov 2017 13:31
Operator : SJ/JU
Sample : I6361-15
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BE2R7

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM111617.M
Quant Title : SVOA CALIBRATION

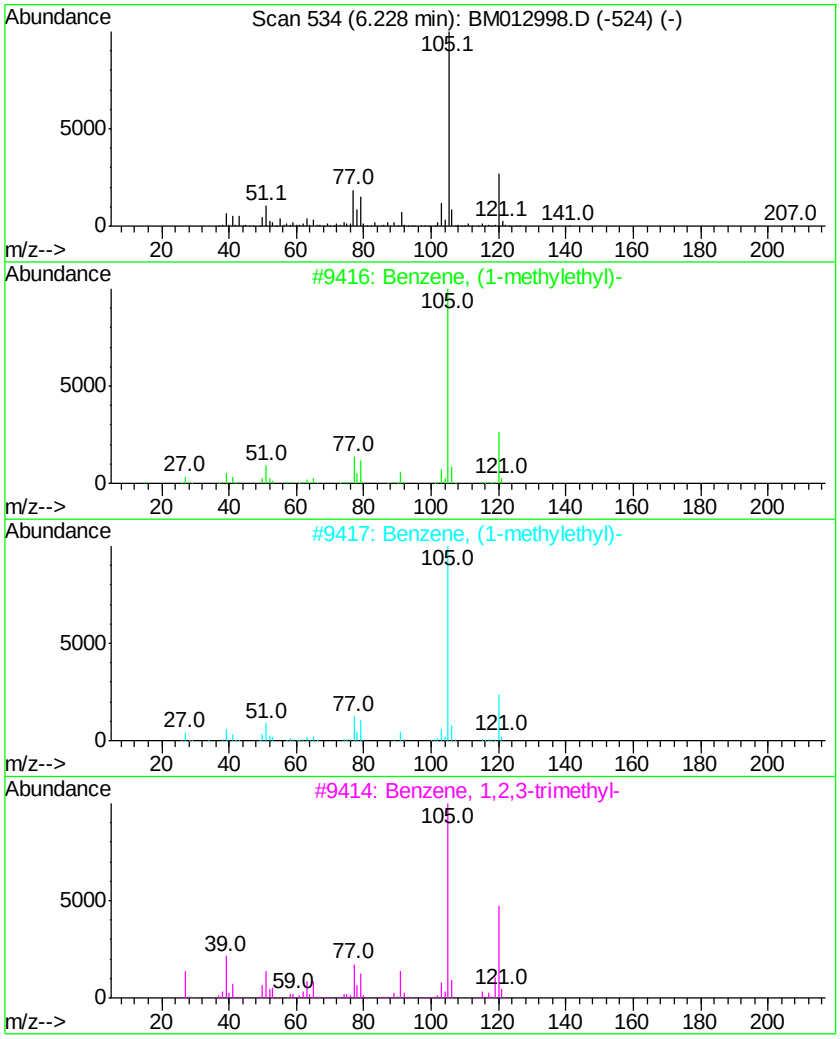
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

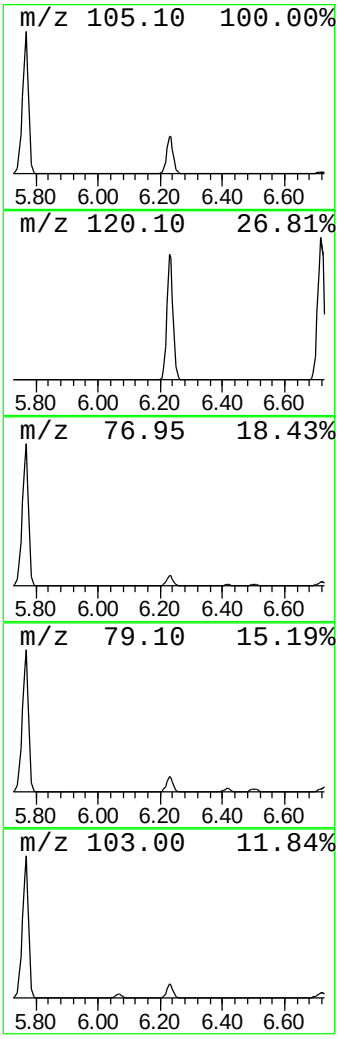
**********

Peak Number 10 Benzene, (1-methylethyl)- Concentration Rank 25

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.23 | 36.30 ng/ul | 3018910 | 1,4-Dichlorobenzene-d4 | 7.73 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, (1-methylethyl)- | 120 | C9H12 | 000098-82-8 | 93 |
| 2 | Benzene, (1-methylethyl)- | 120 | C9H12 | 000098-82-8 | 93 |
| 3 | Benzene, 1,2,3-trimethyl- | 120 | C9H12 | 000526-73-8 | 87 |
| 4 | Benzene, (1-methylethyl)- | 120 | C9H12 | 000098-82-8 | 81 |
| 5 | Benzene, 1-ethyl-2-methyl- | 120 | C9H12 | 000611-14-3 | 74 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM111717\
Data File : BM012998.D
Acq On : 17 Nov 2017 13:31
Operator : SJ/JU
Sample : I6361-15
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BE2R7

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM111617.M
Quant Title : SVOA CALIBRATION

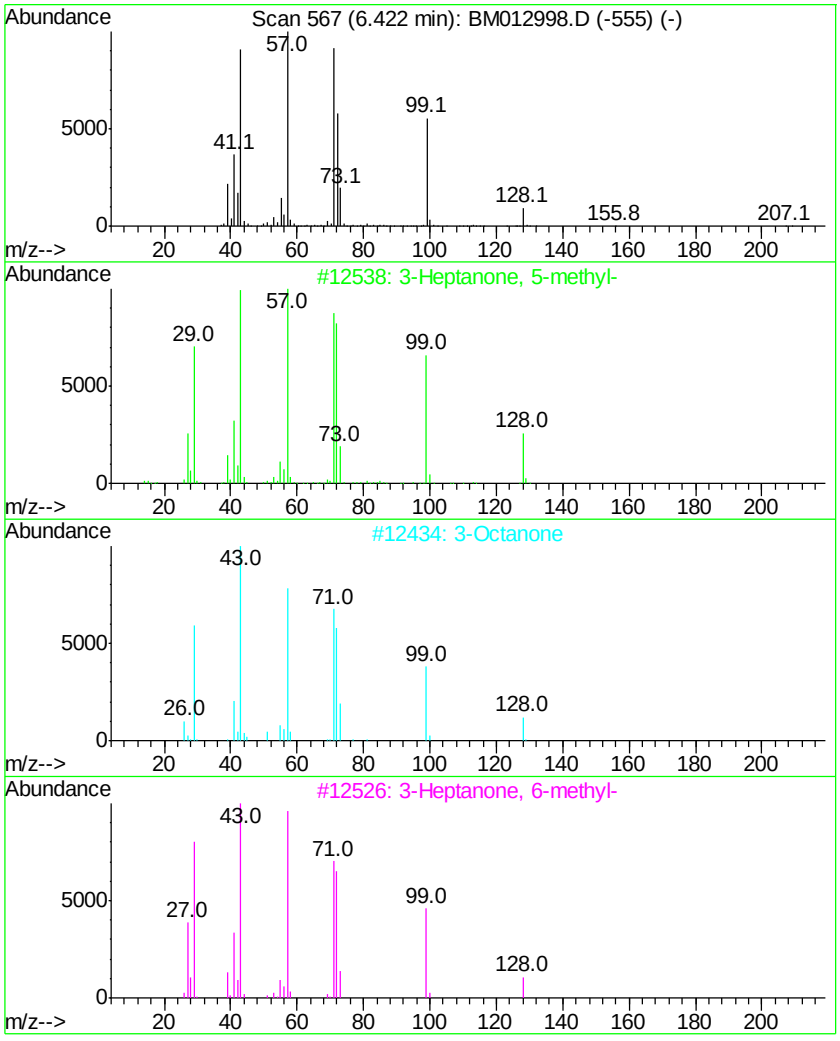
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

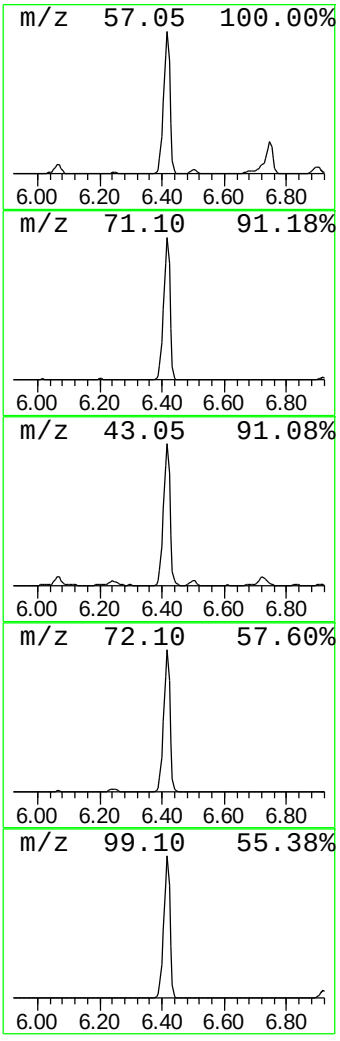
**********

Peak Number 11 3-Heptanone, 5-methyl- Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.42 | 230.83 ng/ul | 19199300 | 1,4-Dichlorobenzene-d4 | 7.73 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Heptanone, 5-methyl- | 128 | C8H16O | 000541-85-5 | 91 |
| 2 | 3-Octanone | 128 | C8H16O | 000106-68-3 | 91 |
| 3 | 3-Heptanone, 6-methyl- | 128 | C8H16O | 000624-42-0 | 90 |
| 4 | 3-Octanone | 128 | C8H16O | 000106-68-3 | 86 |
| 5 | 3-Octanone | 128 | C8H16O | 000106-68-3 | 62 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM111717\
Data File : BM012998.D
Acq On : 17 Nov 2017 13:31
Operator : SJ/JU
Sample : I6361-15
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BE2R7

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM111617.M
Quant Title : SVOA CALIBRATION

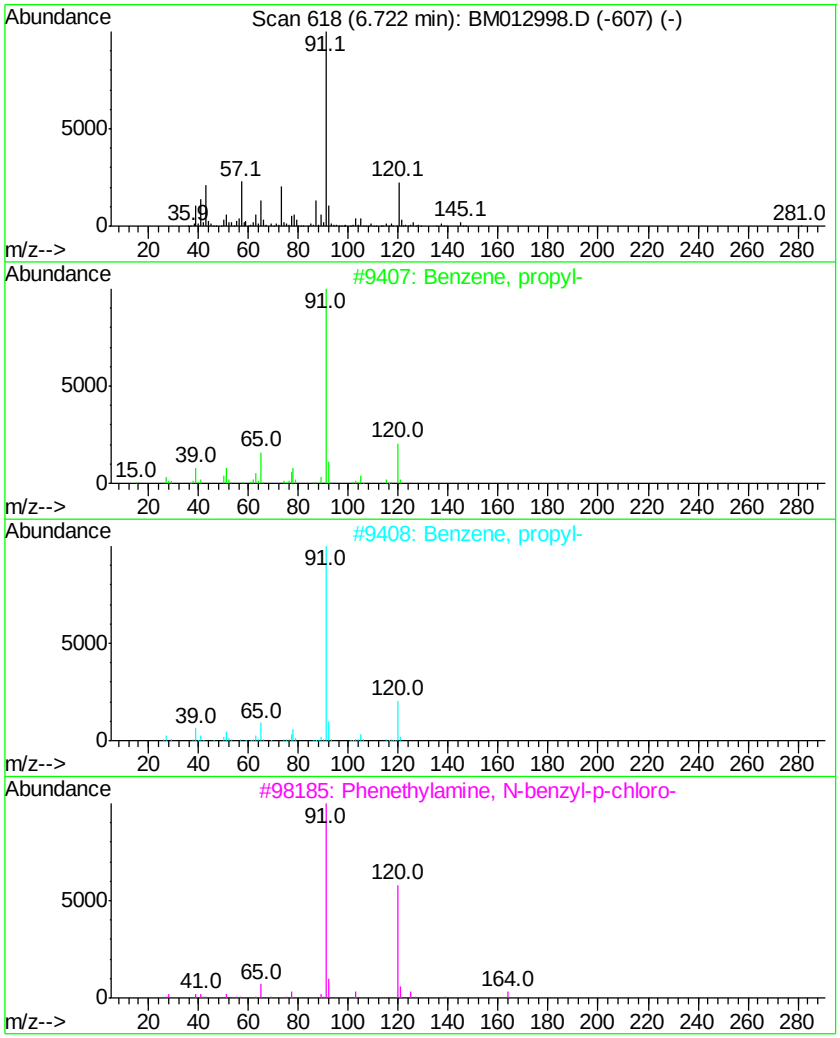
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

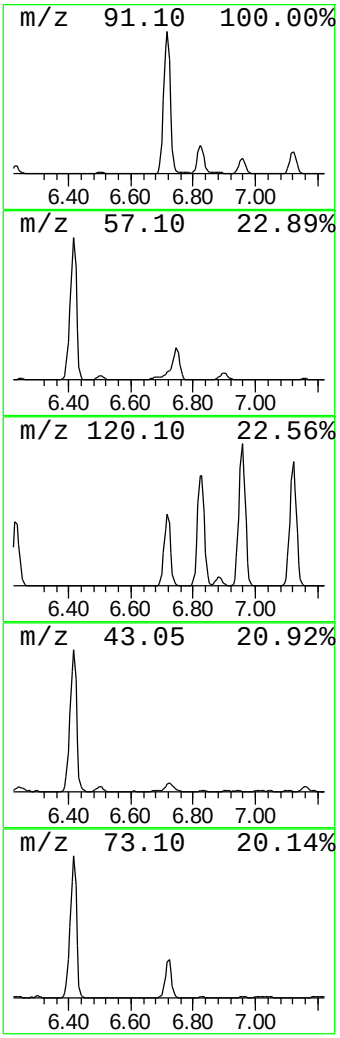
**********

Peak Number 12 Benzene, propyl- Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.72 | 53.83 ng/ul | 4477690 | 1,4-Dichlorobenzene-d4 | 7.73 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, propyl- | 120 | C9H12 | 000103-65-1 | 91 |
| 2 | Benzene, propyl- | 120 | C9H12 | 000103-65-1 | 60 |
| 3 | Phenethylamine, N-benzyl-p-chloro- | 245 | C15H16ClN | 013622-43-0 | 50 |
| 4 | Ethanol, 2-[(phenylmethyl)amino]- | 151 | C9H13NO | 000104-63-2 | 50 |
| 5 | Benzene, propyl- | 120 | C9H12 | 000103-65-1 | 49 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM111717\
Data File : BM012998.D
Acq On : 17 Nov 2017 13:31
Operator : SJ/JU
Sample : I6361-15
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BE2R7

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM111617.M
Quant Title : SVOA CALIBRATION

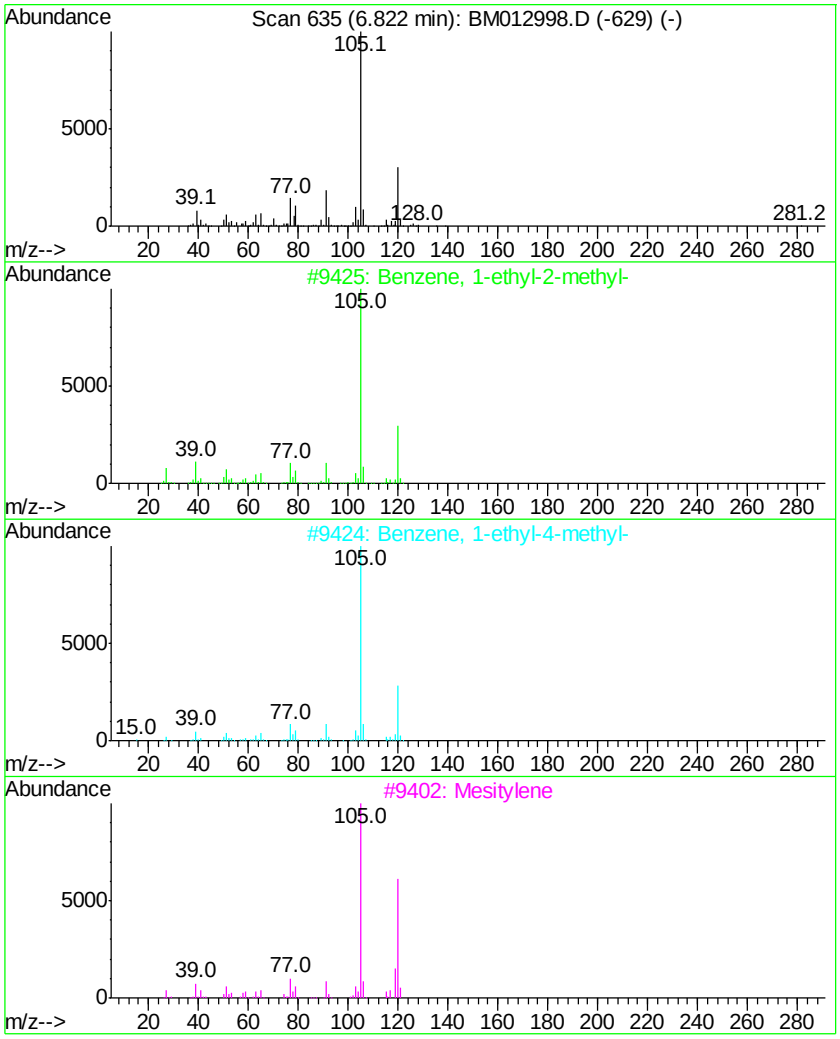
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

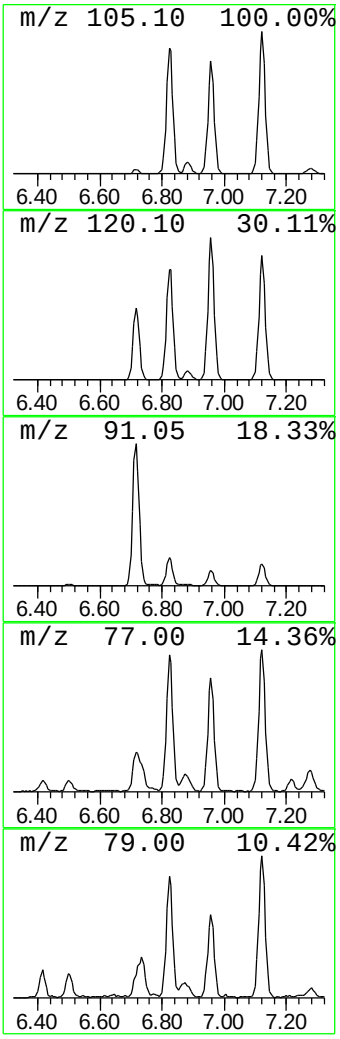
**********

Peak Number 13 Benzene, 1-ethyl-2-methyl- Concentration Rank 23

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.82 | 42.11 ng/ul | 3502510 | 1,4-Dichlorobenzene-d4 | 7.73 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-ethyl-2-methyl- | 120 | C9H12 | 000611-14-3 | 94 |
| 2 | Benzene, 1-ethyl-4-methyl- | 120 | C9H12 | 000622-96-8 | 91 |
| 3 | Mesitylene | 120 | C9H12 | 000108-67-8 | 91 |
| 4 | Benzene, 1-ethyl-3-methyl- | 120 | C9H12 | 000620-14-4 | 91 |
| 5 | Benzene, 1-ethyl-2-methyl- | 120 | C9H12 | 000611-14-3 | 91 |



Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM111717\
Data File : BM012998.D
Acq On : 17 Nov 2017 13:31
Operator : SJ/JU
Sample : I6361-15
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BE2R7

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM111617.M
Quant Title : SVOA CALIBRATION

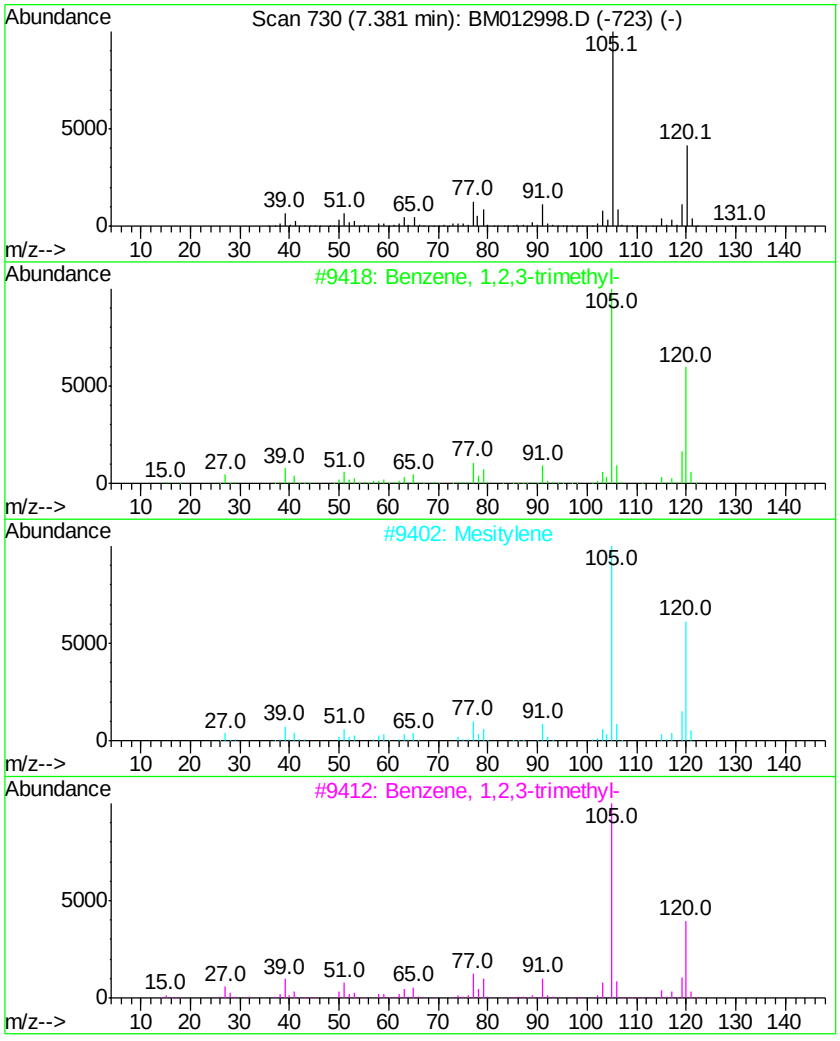
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

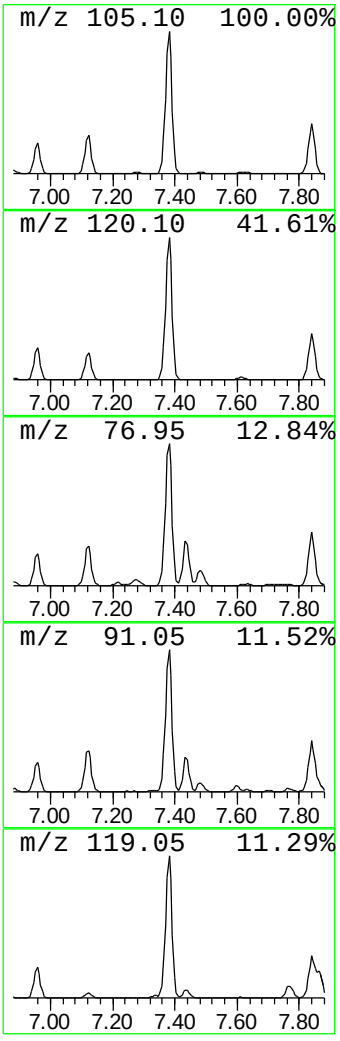
**********

Peak Number 14 Benzene, 1,2,3-trimethyl- Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.38 | 171.90 ng/ul | 14298000 | 1,4-Dichlorobenzene-d4 | 7.73 |

| 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 | 97 |
| 3 | Benzene, 1,2,3-trimethyl- | 120 | C9H12 | 000526-73-8 | 95 |
| 4 | Benzene, 1,2,4-trimethyl- | 120 | C9H12 | 000095-63-6 | 94 |
| 5 | Benzene, 1-ethyl-2-methyl- | 120 | C9H12 | 000611-14-3 | 93 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM111717\
Data File : BM012998.D
Acq On : 17 Nov 2017 13:31
Operator : SJ/JU
Sample : I6361-15
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BE2R7

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM111617.M
Quant Title : SVOA CALIBRATION

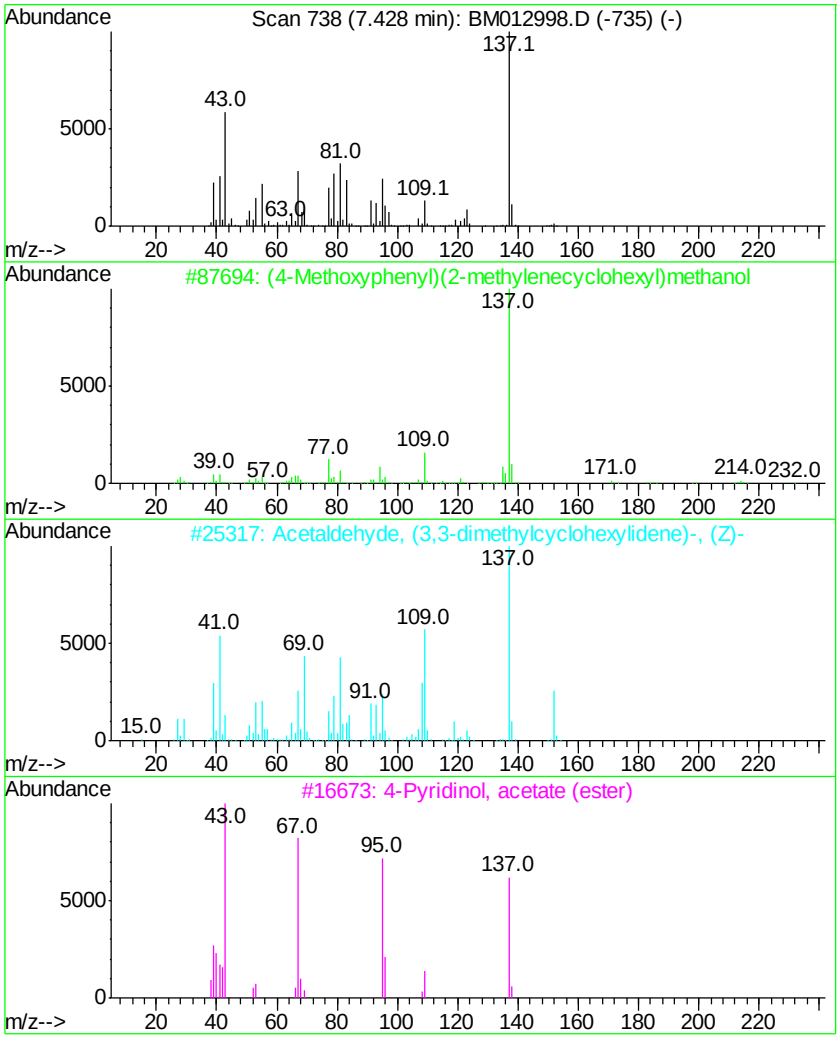
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

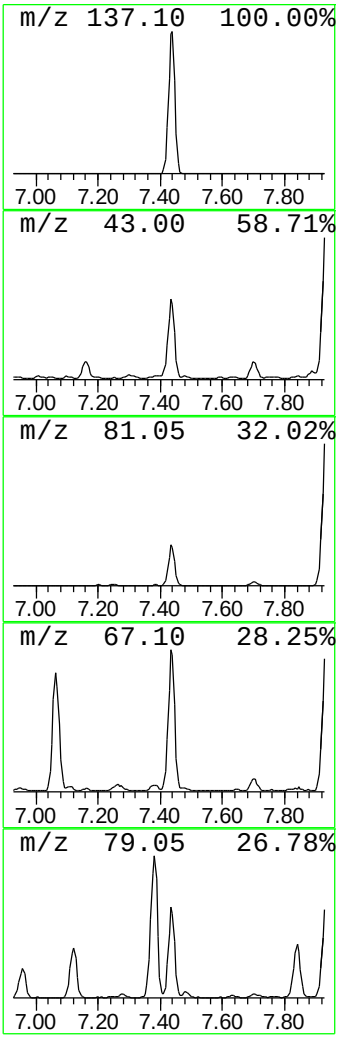
**********

Peak Number 15 unknown-01 Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.43 | 68.78 ng/ul | 5721130 | 1,4-Dichlorobenzene-d4 | 7.73 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | (4-Methoxyphenyl)(2-methylenecyc... | 232 | C15H20O2 | 1000191-91-2 | 47 |
| 2 | Acetaldehyde, (3,3-dimethylcyclo... | 152 | C10H16O | 026532-24-1 | 45 |
| 3 | 4-Pyridinol, acetate (ester) | 137 | C7H7NO2 | 014210-20-9 | 38 |
| 4 | 4,5-Heptadien-2-one, 3,3,6-trime... | 152 | C10H16O | 081250-41-1 | 38 |
| 5 | 4(7H)-Pyrazolo[3,4-d][1,2,3]-tri... | 137 | C4H3N5O | 019818-50-9 | 35 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM111717\
Data File : BM012998.D
Acq On : 17 Nov 2017 13:31
Operator : SJ/JU
Sample : I6361-15
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BE2R7

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM111617.M
Quant Title : SVOA CALIBRATION

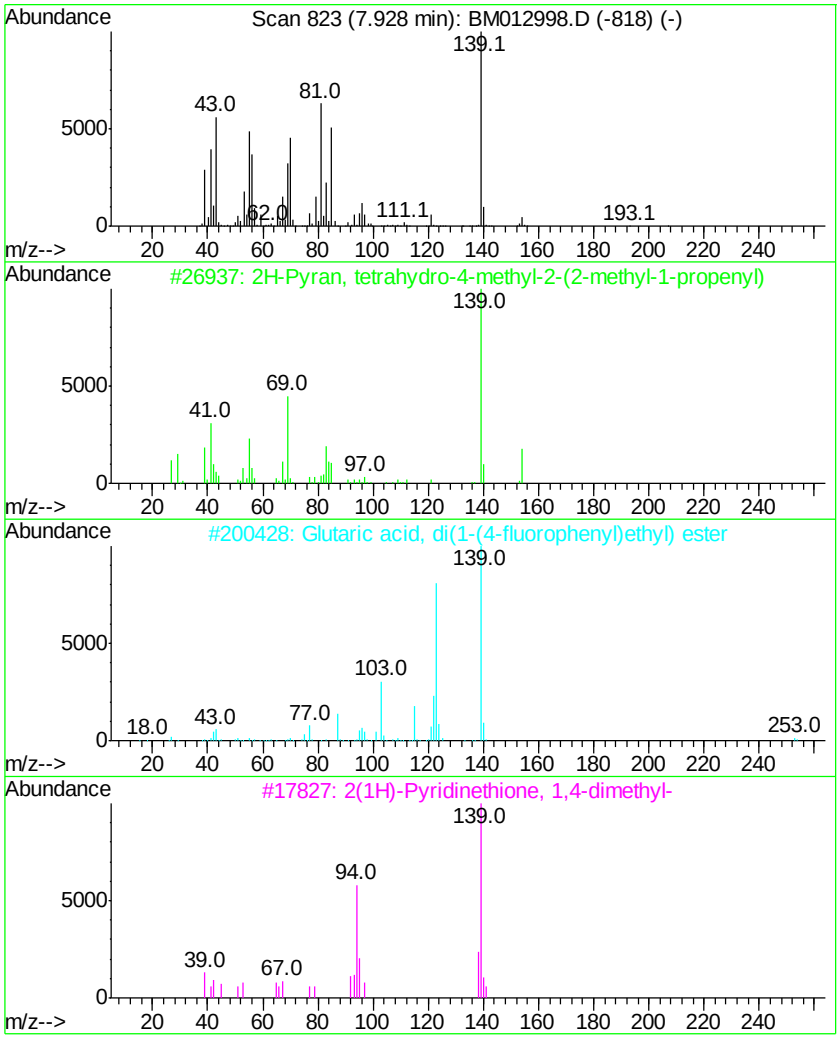
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

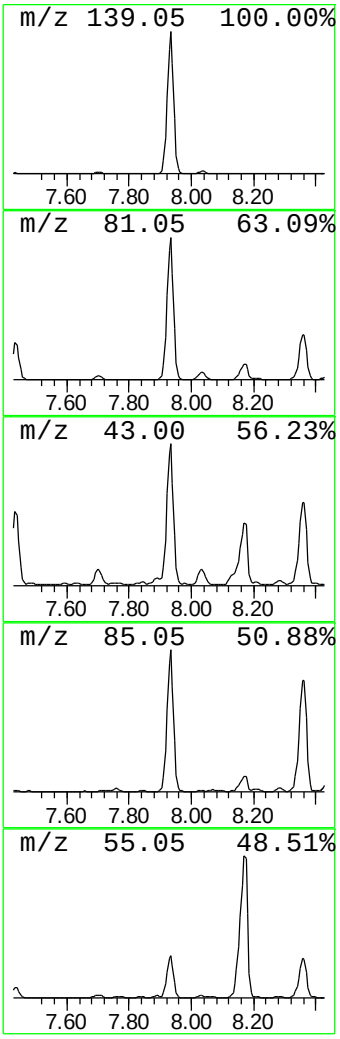
**********

Peak Number 17 unknown-02 Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.93 | 167.58 ng/ul | 13938800 | 1,4-Dichlorobenzene-d4 | 7.73 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2H-Pyran, tetrahydro-4-methyl-2-... | 154 | C10H18O | 016409-43-1 | 38 |
| 2 | Glutaric acid, di(1-(4-fluorophe... | 376 | C21H22F2O4 | 1000377-11-0 | 35 |
| 3 | 2(1H)-Pyridinethione, 1,4-dimethyl- | 139 | C7H9NS | 019006-67-8 | 27 |
| 4 | Silane, 1-hexynyltrimethyl- | 154 | C9H18Si | 003844-94-8 | 25 |
| 5 | Isonicotinic acid N-oxide | 139 | C6H5NO3 | 013602-12-5 | 22 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM111717\
Data File : BM012998.D
Acq On : 17 Nov 2017 13:31
Operator : SJ/JU
Sample : I6361-15
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BE2R7

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM111617.M
Quant Title : SVOA CALIBRATION

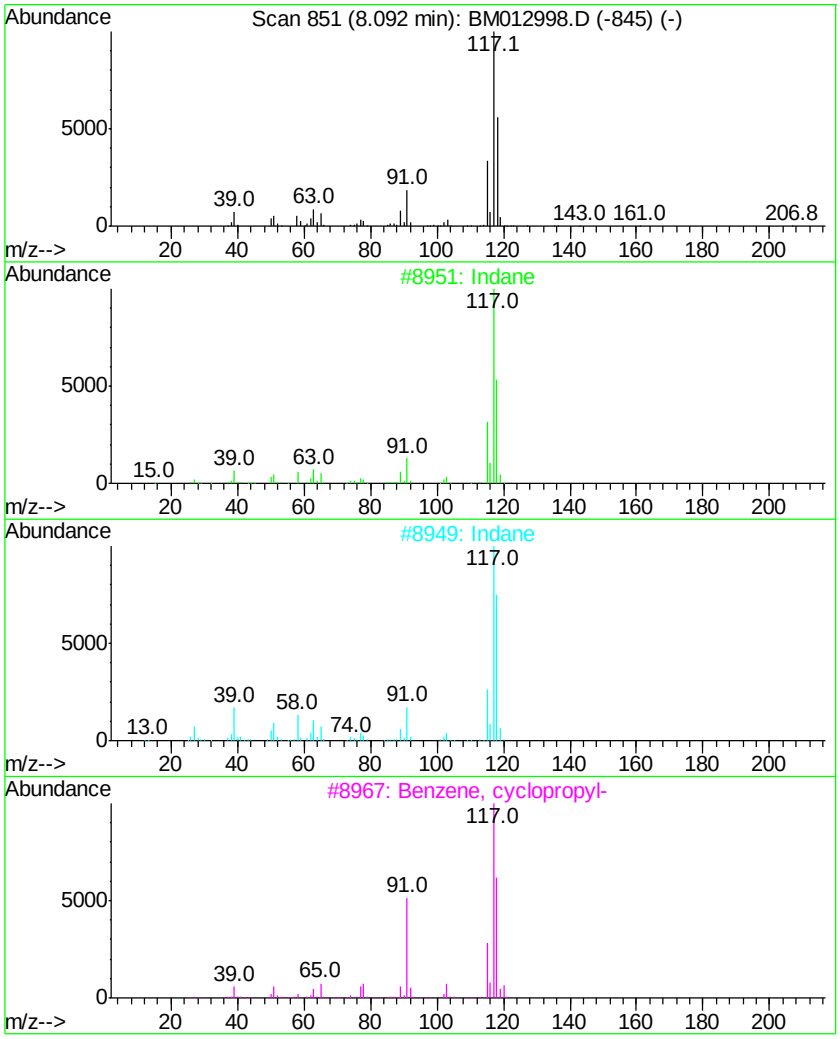
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

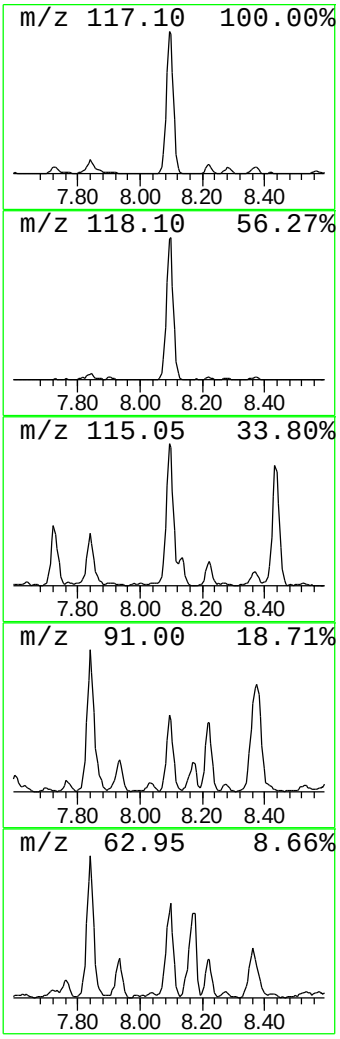
**********

Peak Number 18 Indane Concentration Rank 28

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.09 | 30.23 ng/ul | 2514430 | 1,4-Dichlorobenzene-d4 | 7.73 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Indane | 118 | C9H10 | 000496-11-7 | 87 |
| 2 | Indane | 118 | C9H10 | 000496-11-7 | 64 |
| 3 | Benzene, cyclopropyl- | 118 | C9H10 | 000873-49-4 | 64 |
| 4 | Benzene, 1-ethenyl-2-methyl- | 118 | C9H10 | 000611-15-4 | 60 |
| 5 | Benzene, cyclopropyl- | 118 | C9H10 | 000873-49-4 | 58 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM111717\
Data File : BM012998.D
Acq On : 17 Nov 2017 13:31
Operator : SJ/JU
Sample : I6361-15
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BE2R7

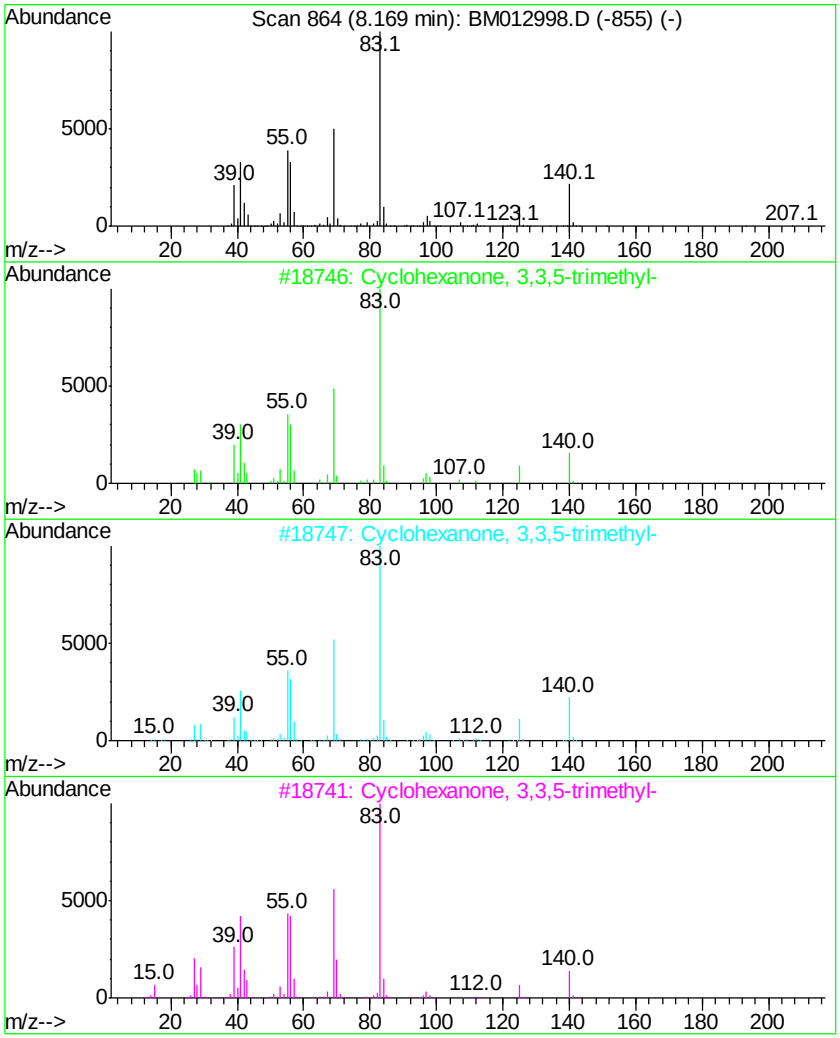
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM111617.M
Quant Title : SVOA CALIBRATION

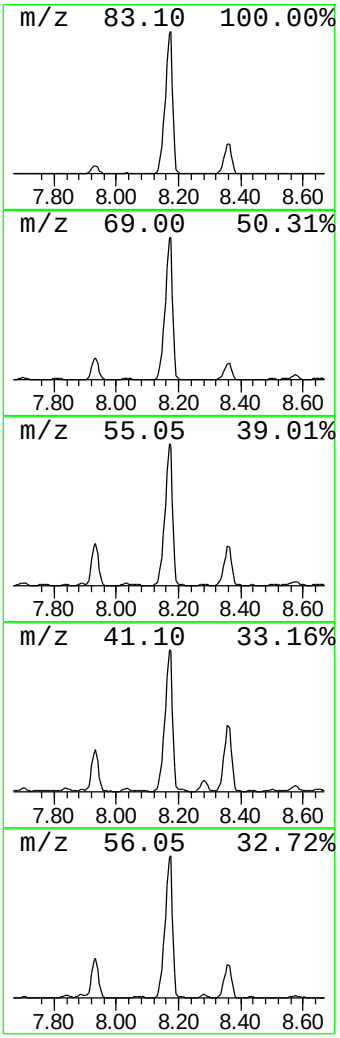
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 19 Cyclohexanone, 3,3,5-trimet... Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.17 | 450.02 ng/ul | 37430600 | 1,4-Dichlorobenzene-d4 | 7.73 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexanone, 3,3,5-trimethyl- | 140 | C9H16O | 000873-94-9 | 96 |
| 2 | Cyclohexanone, 3,3,5-trimethyl- | 140 | C9H16O | 000873-94-9 | 96 |
| 3 | Cyclohexanone, 3,3,5-trimethyl- | 140 | C9H16O | 000873-94-9 | 91 |
| 4 | Cyclohexanone, 3,3,5-trimethyl- | 140 | C9H16O | 000873-94-9 | 86 |
| 5 | 1,3-Cyclohexanedione, 5,5-dimethyl- | 140 | C8H12O2 | 000126-81-8 | 50 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM111717\
Data File : BM012998.D
Acq On : 17 Nov 2017 13:31
Operator : SJ/JU
Sample : I6361-15
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BE2R7

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM111617.M
Quant Title : SVOA CALIBRATION

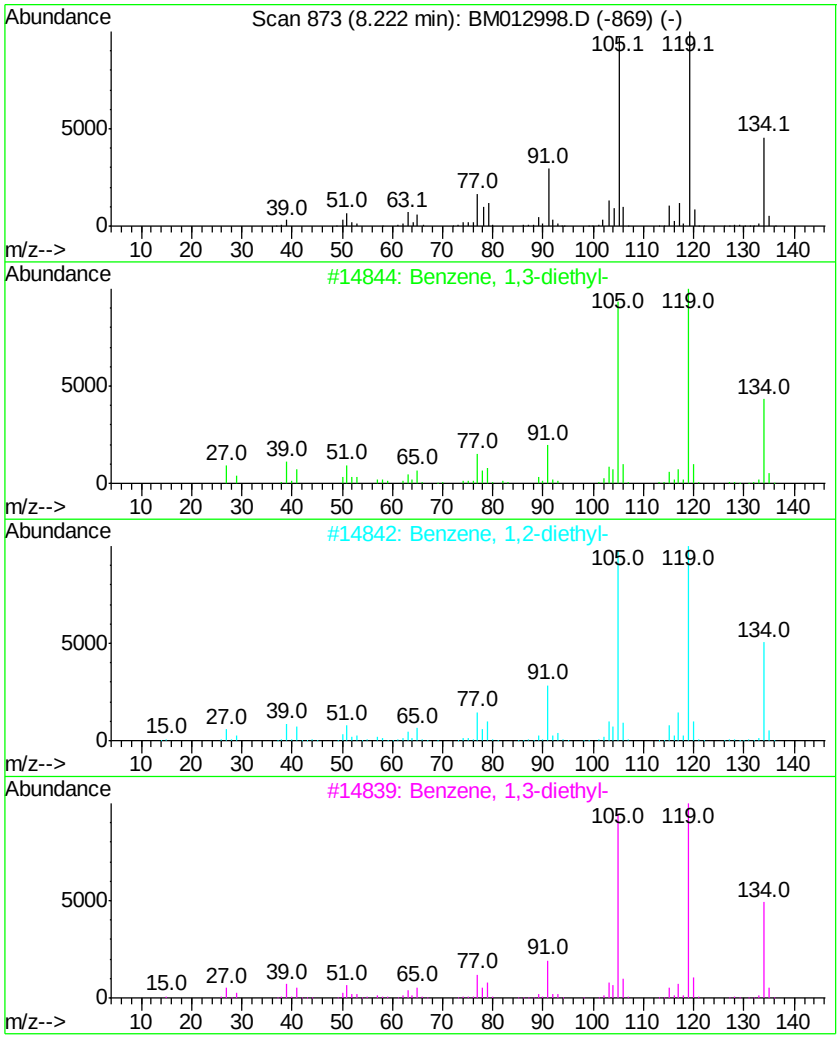
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

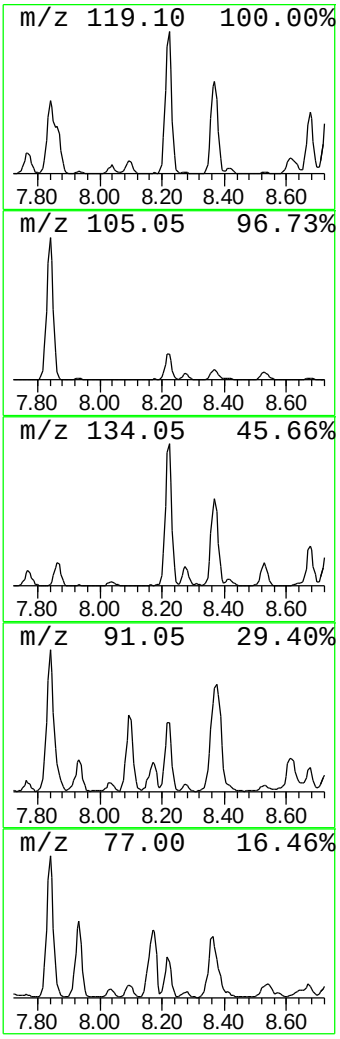
**********

Peak Number 20 Benzene, 1,3-diethyl- Concentration Rank 40

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.22 | 20.76 ng/ul | 1726390 | 1,4-Dichlorobenzene-d4 | 7.73 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1,3-diethyl- | 134 | C10H14 | 000141-93-5 | 97 |
| 2 | Benzene, 1,2-diethyl- | 134 | C10H14 | 000135-01-3 | 96 |
| 3 | Benzene, 1,3-diethyl- | 134 | C10H14 | 000141-93-5 | 94 |
| 4 | Benzene, 1,4-diethyl- | 134 | C10H14 | 000105-05-5 | 94 |
| 5 | Benzene, 1,3-diethyl- | 134 | C10H14 | 000141-93-5 | 94 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM111717\
Data File : BM012998.D
Acq On : 17 Nov 2017 13:31
Operator : SJ/JU
Sample : I6361-15
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BE2R7

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM111617.M
Quant Title : SVOA CALIBRATION

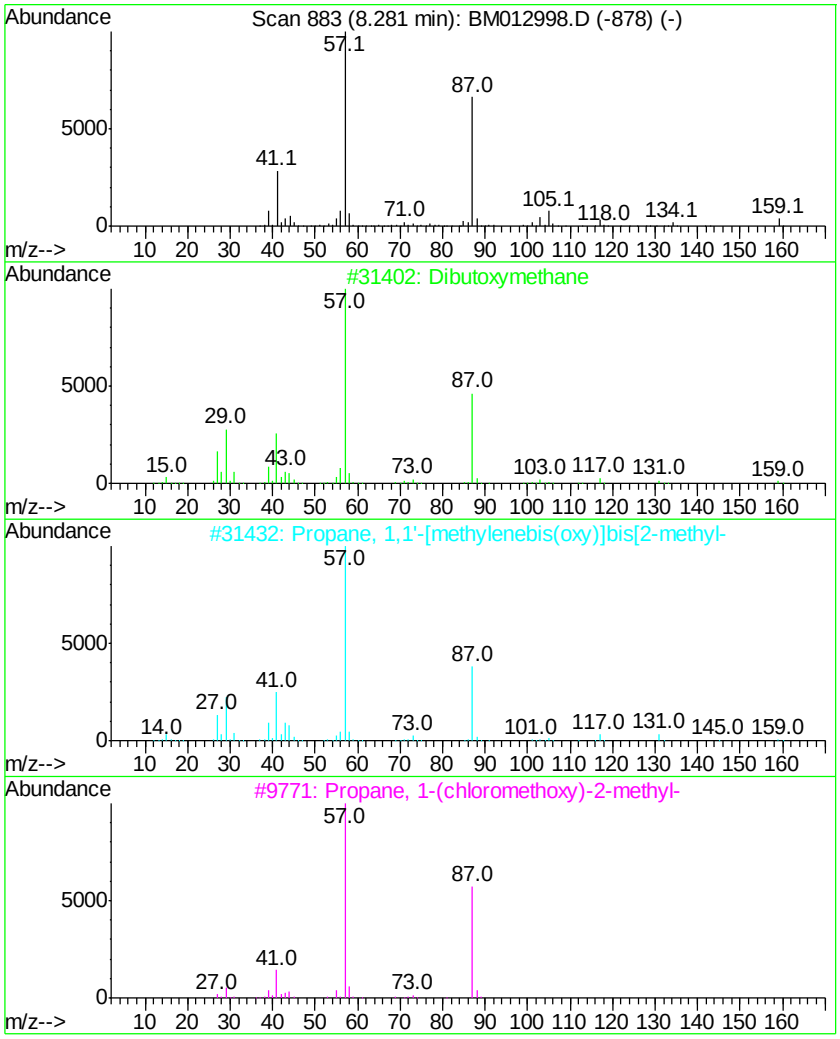
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

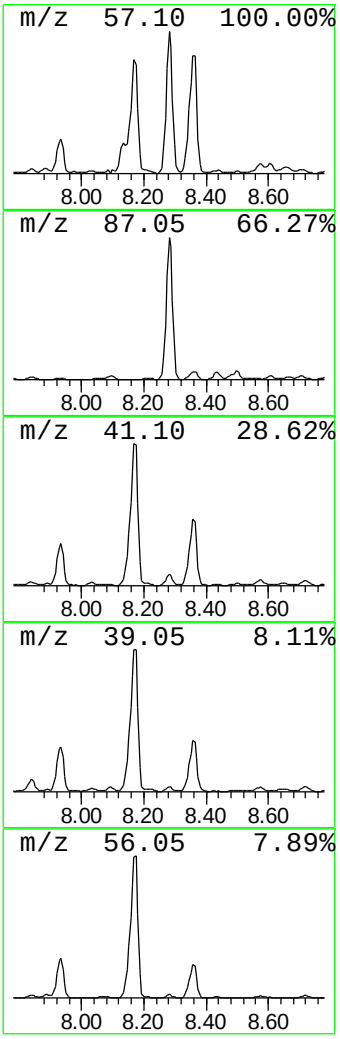
**********

Peak Number 21 Dibutoxymethane Concentration Rank 34

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.28 | 24.96 ng/ul | 2075940 | 1,4-Dichlorobenzene-d4 | 7.73 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Dibutoxymethane | 160 | C9H20O2 | 002568-90-3 | 64 |
| 2 | Propane, 1,1'-[methylenebis(oxy)... | 160 | C9H20O2 | 002568-91-4 | 59 |
| 3 | Propane, 1-(chloromethoxy)-2-met... | 122 | C5H11ClO | 034180-11-5 | 53 |
| 4 | Morpholine | 87 | C4H9NO | 000110-91-8 | 53 |
| 5 | Morpholine | 87 | C4H9NO | 000110-91-8 | 42 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM111717\
Data File : BM012998.D
Acq On : 17 Nov 2017 13:31
Operator : SJ/JU
Sample : I6361-15
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BE2R7

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM111617.M
Quant Title : SVOA CALIBRATION

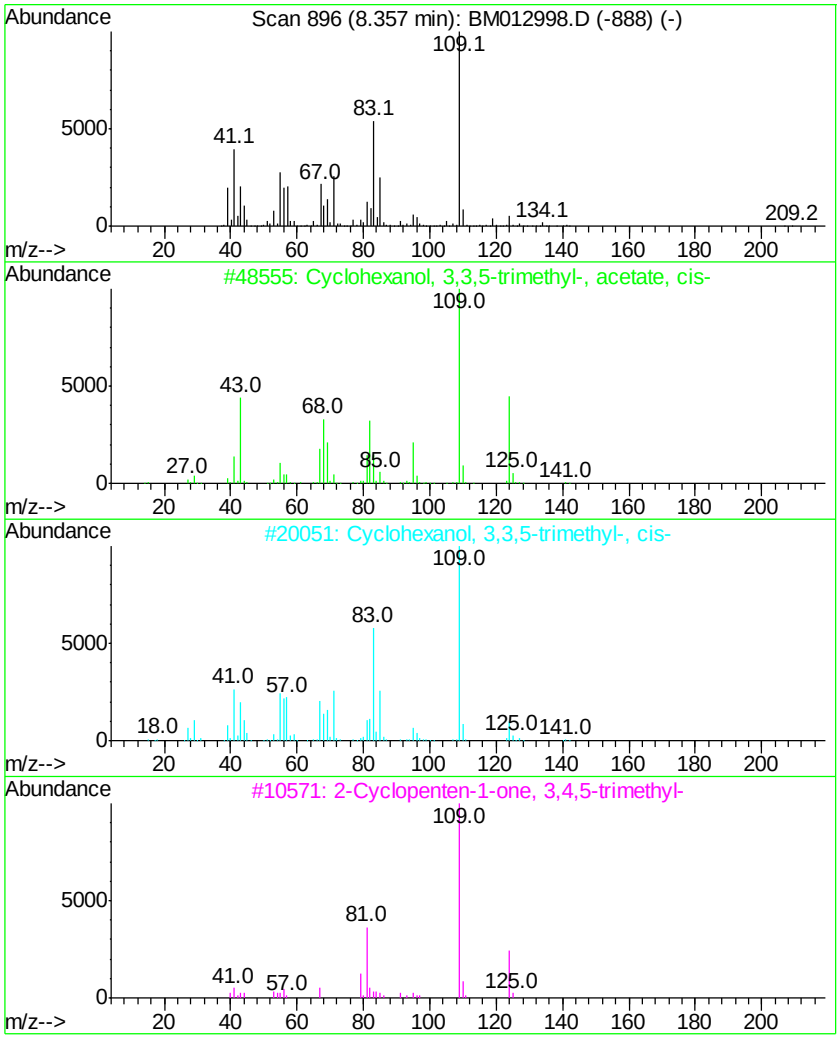
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

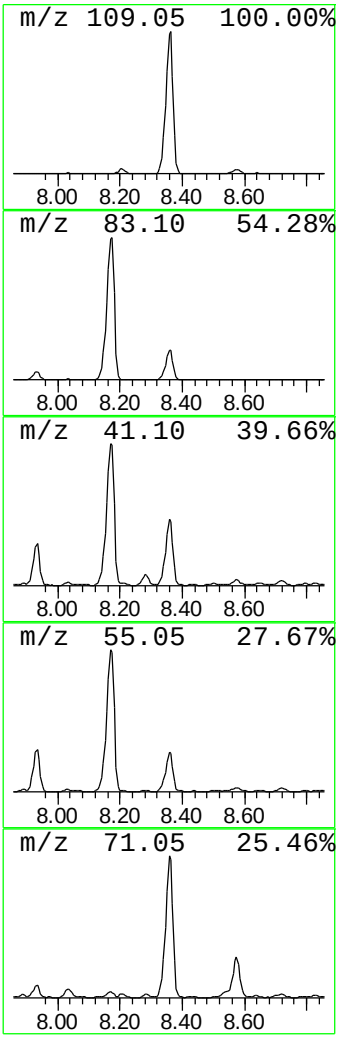
**********

Peak Number 22 unknown-03 Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.36 | 234.84 ng/ul | 19532600 | 1,4-Dichlorobenzene-d4 | 7.73 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexanol, 3,3,5-trimethyl-, ... | 184 | C11H20O2 | 024691-16-5 | 43 |
| 2 | Cyclohexanol, 3,3,5-trimethyl-, ... | 142 | C9H18O | 000933-48-2 | 38 |
| 3 | 2-Cyclopenten-1-one, 3,4,5-trime... | 124 | C8H12O | 055683-21-1 | 38 |
| 4 | 2-Amino-4-methylpyrimidine | 109 | C5H7N3 | 000108-52-1 | 38 |
| 5 | Cyclohexanol, 3,3,5-trimethyl-, ... | 142 | C9H18O | 000767-54-4 | 38 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM111717\
Data File : BM012998.D
Acq On : 17 Nov 2017 13:31
Operator : SJ/JU
Sample : I6361-15
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BE2R7

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM111617.M
Quant Title : SVOA CALIBRATION

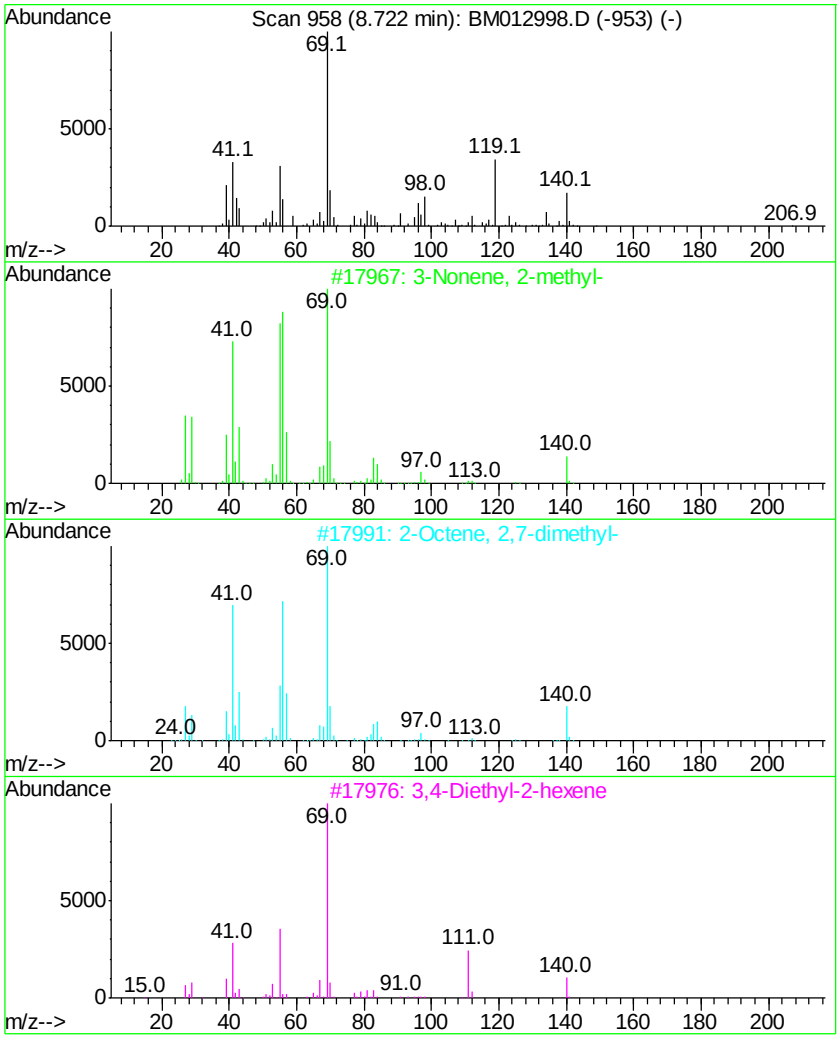
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

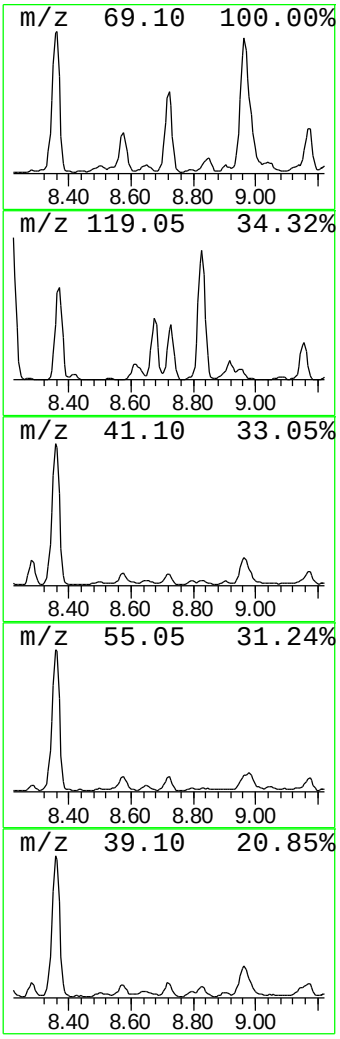
**********

Peak Number 23 (DEL) Alkane: Cyclic8.72 Concentration Rank 39

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.72 | 21.02 ng/ul | 1748640 | 1,4-Dichlorobenzene-d4 | 7.73 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Nonene, 2-methyl- | 140 | C10H20 | 053966-53-3 | 49 |
| 2 | 2-Octene, 2,7-dimethyl- | 140 | C10H20 | 002050-81-9 | 49 |
| 3 | 3,4-Diethyl-2-hexene | 140 | C10H20 | 1000113-54-8 | 49 |
| 4 | 3,4-Diethyl-3-hexene | 140 | C10H20 | 000868-46-2 | 49 |
| 5 | 4-Methyl-1,5-Heptadiene | 110 | C8H14 | 000998-94-7 | 43 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM111717\
Data File : BM012998.D
Acq On : 17 Nov 2017 13:31
Operator : SJ/JU
Sample : I6361-15
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BE2R7

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM111617.M
Quant Title : SVOA CALIBRATION

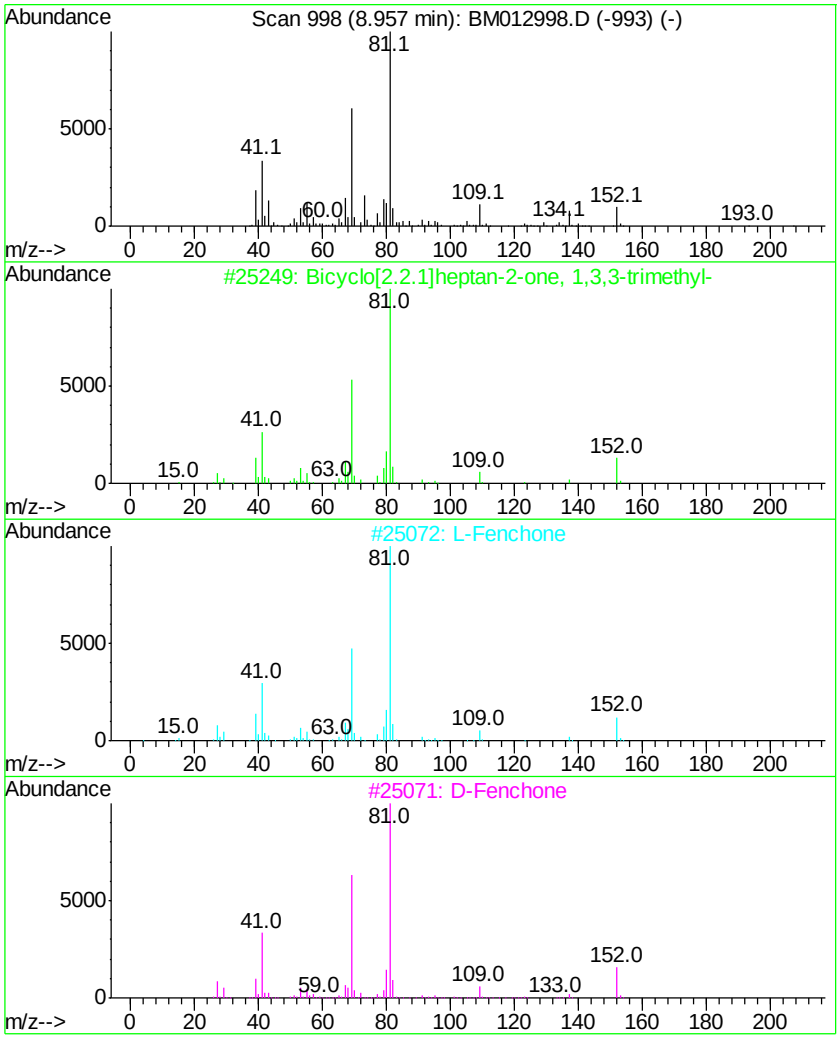
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

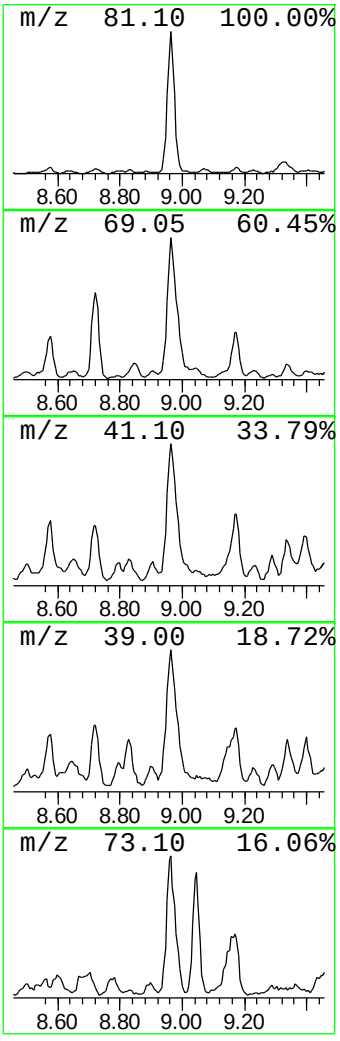
**********

Peak Number 24 Bicyclo[2.2.1]heptan-2-one,... Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.96 | 54.48 ng/ul | 4531580 | 1,4-Dichlorobenzene-d4 | 7.73 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Bicyclo[2.2.1]heptan-2-one, 1,3,... | 152 | C10H16O | 001195-79-5 | 93 |
| 2 | L-Fenchone | 152 | C10H16O | 007787-20-4 | 87 |
| 3 | D-Fenchone | 152 | C10H16O | 004695-62-9 | 81 |
| 4 | L-Fenchone | 152 | C10H16O | 007787-20-4 | 81 |
| 5 | Bicyclo[2.2.1]heptan-2-one, 1,3,... | 152 | C10H16O | 001195-79-5 | 81 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM111717\
Data File : BM012998.D
Acq On : 17 Nov 2017 13:31
Operator : SJ/JU
Sample : I6361-15
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BE2R7

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM111617.M
Quant Title : SVOA CALIBRATION

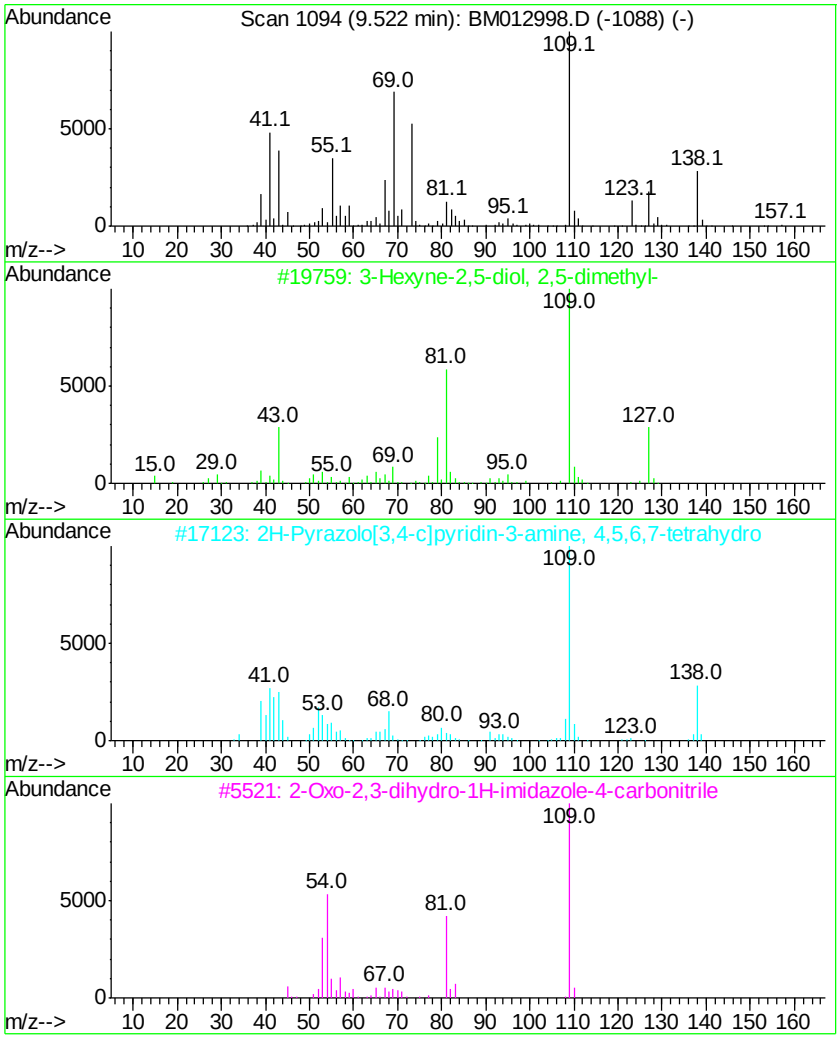
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

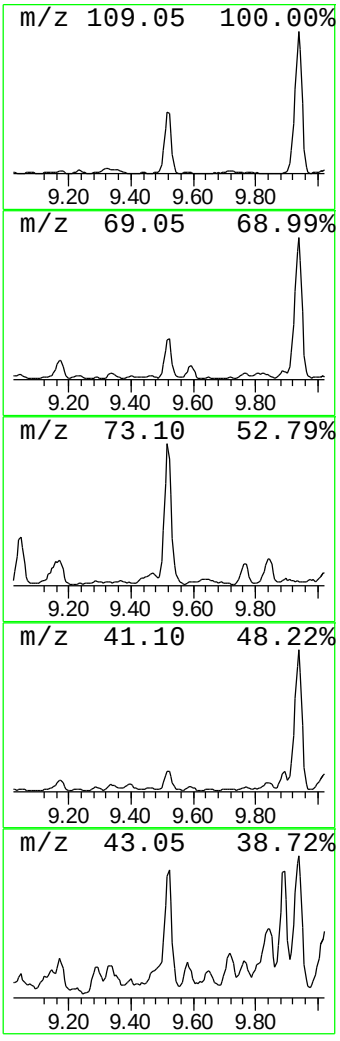
**********

Peak Number 25 unknown-04 Concentration Rank 33

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.52 | 25.48 ng/ul | 3446370 | Naphthalene-d8 | 10.51 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Hexyne-2,5-diol, 2,5-dimethyl- | 142 | C8H14O2 | 000142-30-3 | 43 |
| 2 | 2H-Pyrazolo[3,4-c]pyridin-3-amin... | 138 | C6H10N4 | 1000362-58-3 | 38 |
| 3 | 2-Oxo-2,3-dihydro-1H-imidazole-4... | 109 | C4H3N3O | 1000294-08-6 | 38 |
| 4 | Phenol, 3-amino- | 109 | C6H7NO | 000591-27-5 | 35 |
| 5 | Pyridine, 2,5-diamino- | 109 | C5H7N3 | 004318-76-7 | 35 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM111717\
Data File : BM012998.D
Acq On : 17 Nov 2017 13:31
Operator : SJ/JU
Sample : I6361-15
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BE2R7

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM111617.M
Quant Title : SVOA CALIBRATION

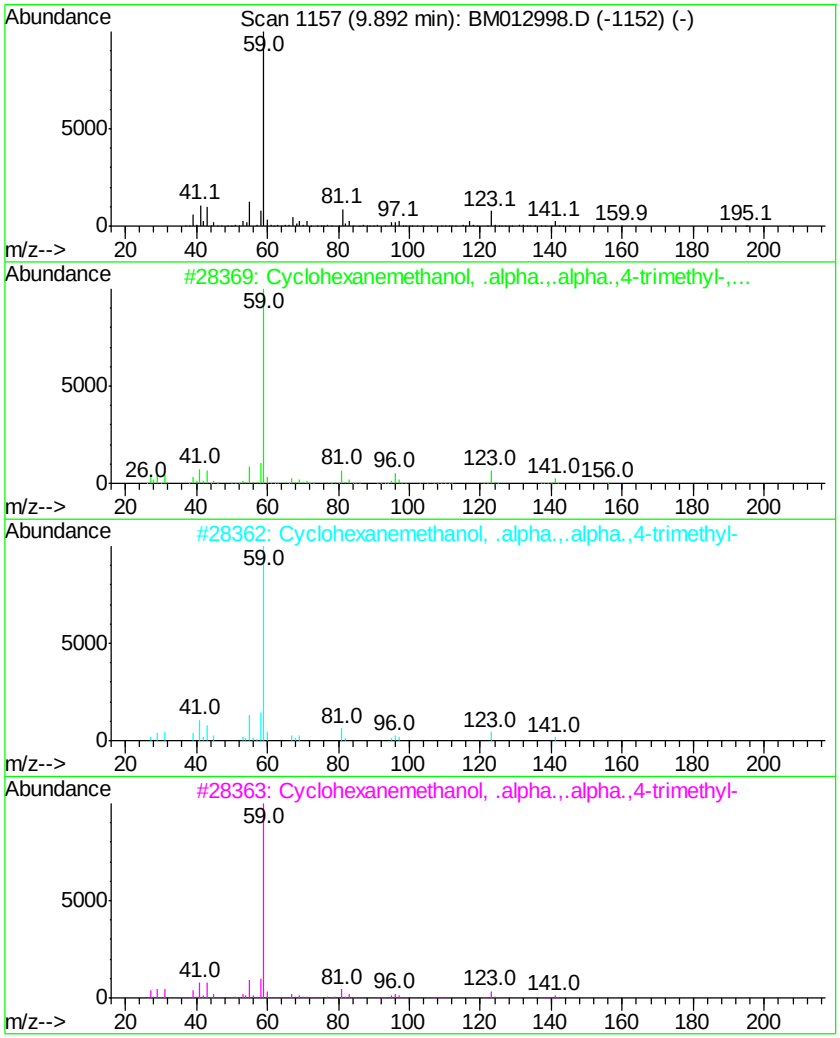
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

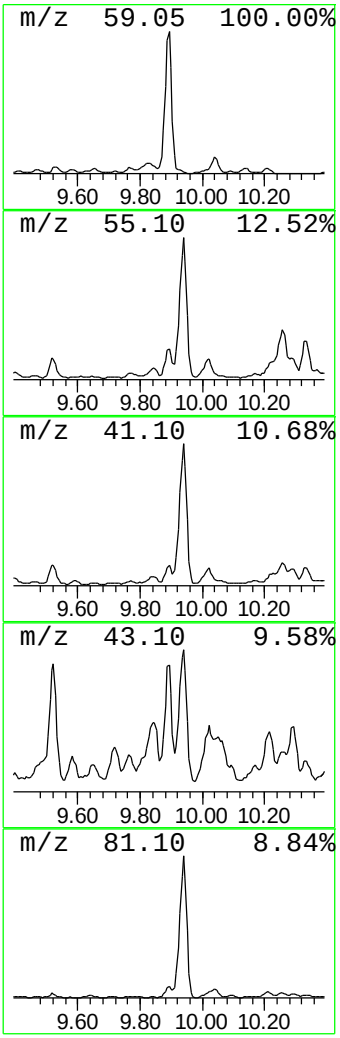
**********

Peak Number 26 Cyclohexanemethanol, .alpha... Concentration Rank 32

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.89 | 25.55 ng/ul | 3456420 | Naphthalene-d8 | 10.51 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexanemethanol, .alpha.,.al... | 156 | C10H20O | 005114-00-1 | 78 |
| 2 | Cyclohexanemethanol, .alpha.,.al... | 156 | C10H20O | 000498-81-7 | 78 |
| 3 | Cyclohexanemethanol, .alpha.,.al... | 156 | C10H20O | 000498-81-7 | 78 |
| 4 | Butanamide, 3,3-dimethyl- | 115 | C6H13NO | 000926-04-5 | 59 |
| 5 | o-Menthan-8-ol | 156 | C10H20O | 343855-44-7 | 56 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM111717\
Data File : BM012998.D
Acq On : 17 Nov 2017 13:31
Operator : SJ/JU
Sample : I6361-15
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BE2R7

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM111617.M
Quant Title : SVOA CALIBRATION

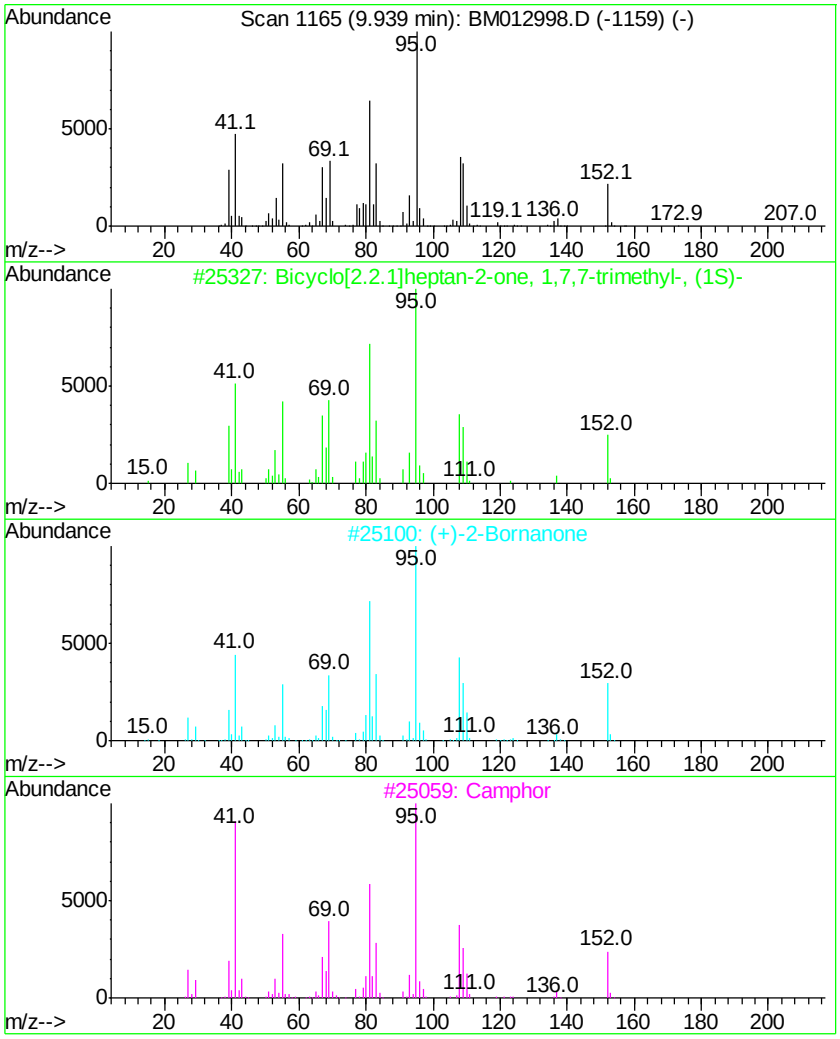
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

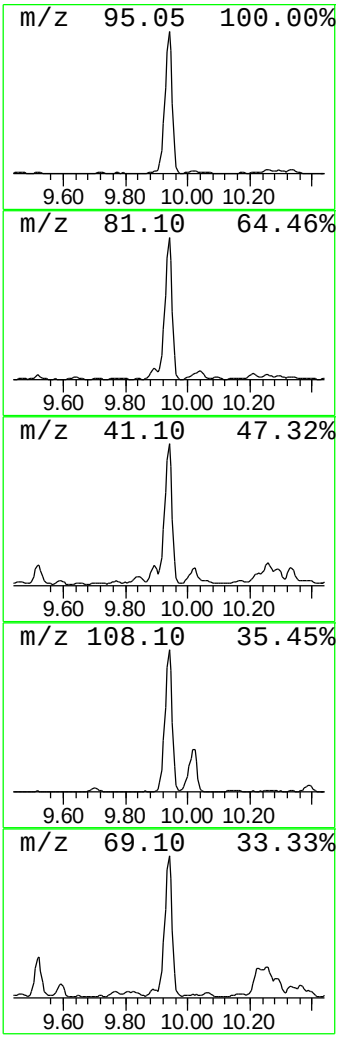
**********

Peak Number 27 Bicyclo[2.2.1]heptan-2-one,... Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.94 | 172.37 ng/ul | 23318700 | Naphthalene-d8 | 10.51 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Bicyclo[2.2.1]heptan-2-one, 1,7,... | 152 | C10H16O | 000464-48-2 | 97 |
| 2 | (+)-2-Bornanone | 152 | C10H16O | 000464-49-3 | 97 |
| 3 | Camphor | 152 | C10H16O | 000076-22-2 | 97 |
| 4 | (+)-2-Bornanone | 152 | C10H16O | 000464-49-3 | 96 |
| 5 | Camphor | 152 | C10H16O | 000076-22-2 | 95 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM111717\
Data File : BM012998.D
Acq On : 17 Nov 2017 13:31
Operator : SJ/JU
Sample : I6361-15
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BE2R7

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM111617.M
Quant Title : SVOA CALIBRATION

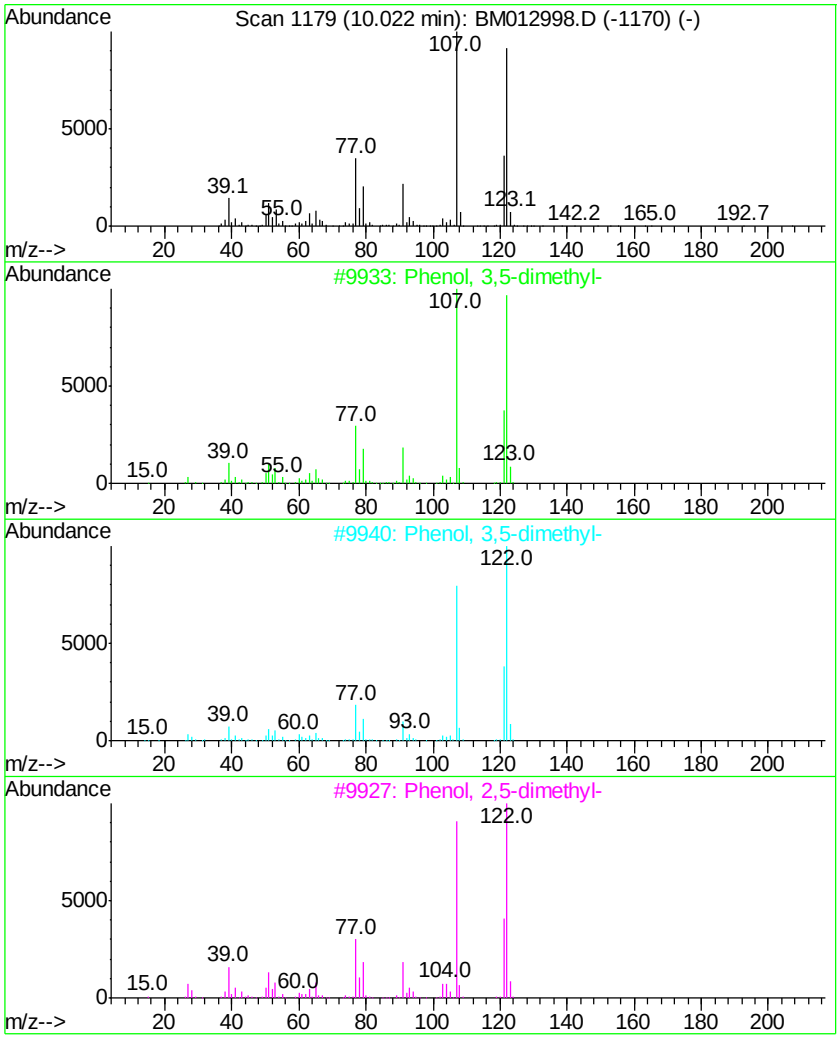
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

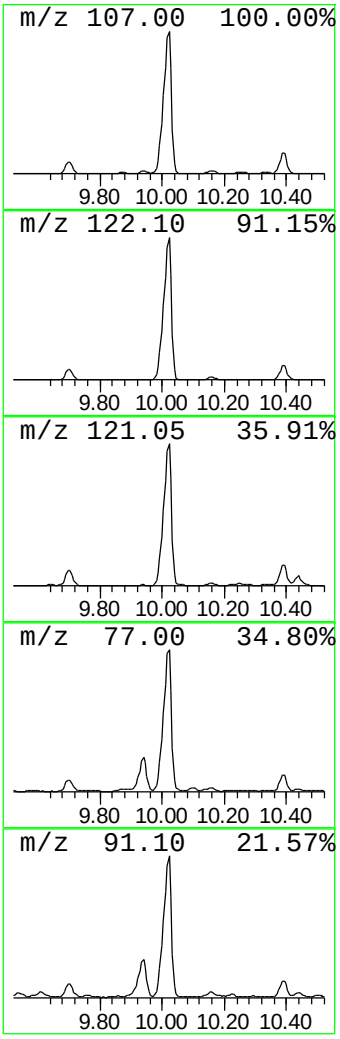
**********

Peak Number 28 Phenol, 3,5-dimethyl- Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.02 | 178.92 ng/ul | 24205000 | Naphthalene-d8 | 10.51 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenol, 3,5-dimethyl- | 122 | C8H10O | 000108-68-9 | 96 |
| 2 | Phenol, 3,5-dimethyl- | 122 | C8H10O | 000108-68-9 | 95 |
| 3 | Phenol, 2,5-dimethyl- | 122 | C8H10O | 000095-87-4 | 94 |
| 4 | Phenol, 3,5-dimethyl- | 122 | C8H10O | 000108-68-9 | 94 |
| 5 | Phenol, 3,4-dimethyl- | 122 | C8H10O | 000095-65-8 | 94 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM111717\
Data File : BM012998.D
Acq On : 17 Nov 2017 13:31
Operator : SJ/JU
Sample : I6361-15
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BE2R7

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM111617.M
Quant Title : SVOA CALIBRATION

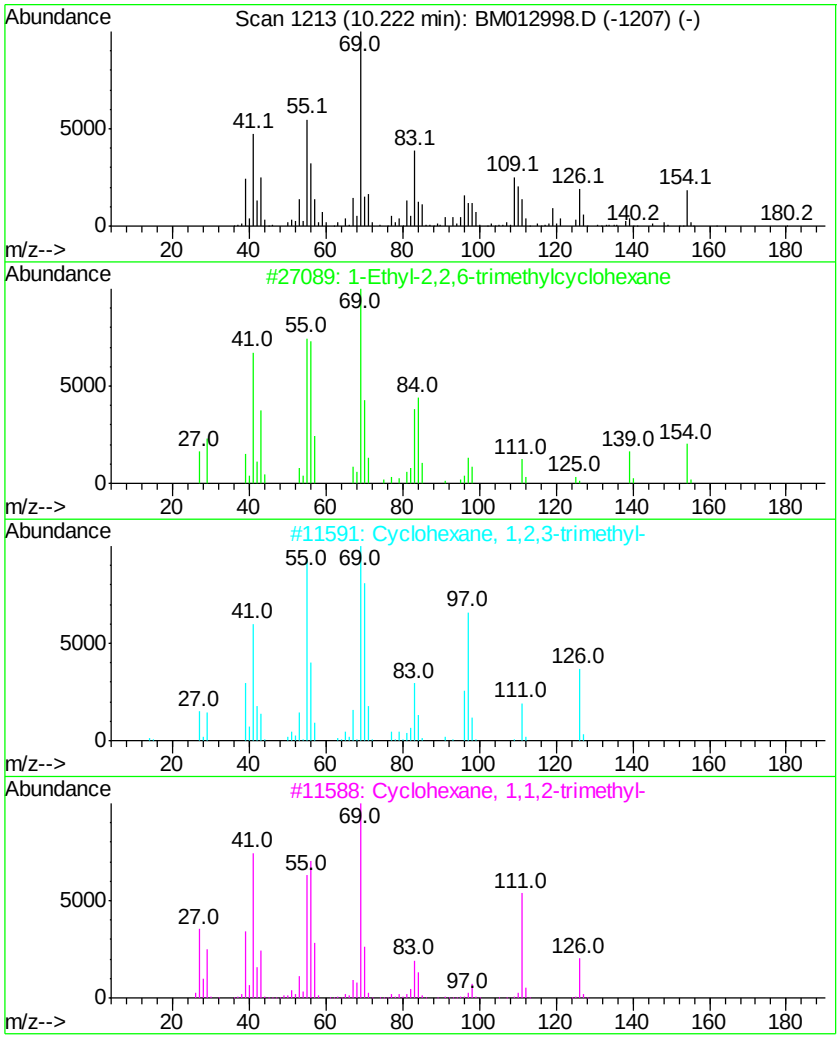
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

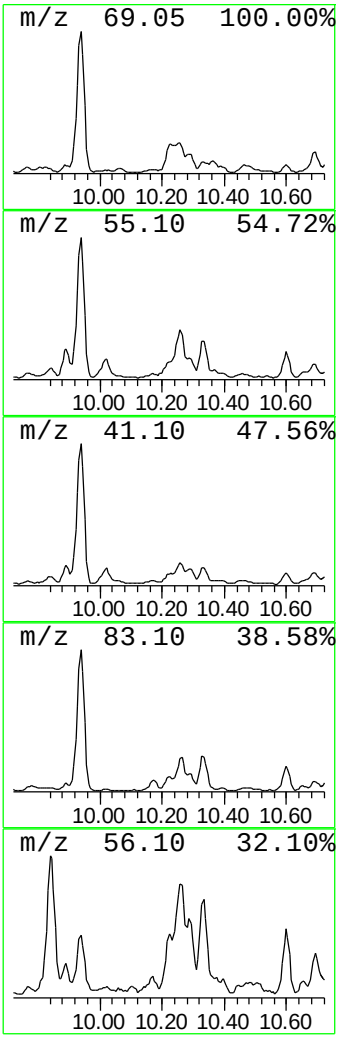
**********

Peak Number 29 (DEL) Alkane: Cyclic10.22 Concentration Rank 60

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.22 | 12.08 ng/ul | 1634280 | Naphthalene-d8 | 10.51 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Ethyl-2,2,6-trimethylcyclohexane | 154 | C11H22 | 071186-27-1 | 62 |
| 2 | Cyclohexane, 1,2,3-trimethyl- | 126 | C9H18 | 001678-97-3 | 47 |
| 3 | Cyclohexane, 1,1,2-trimethyl- | 126 | C9H18 | 007094-26-0 | 43 |
| 4 | trans-2-Methyl-3-octene | 126 | C9H18 | 052937-36-7 | 38 |
| 5 | 2-Methyl-2-octene | 126 | C9H18 | 016993-86-5 | 38 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM111717\
Data File : BM012998.D
Acq On : 17 Nov 2017 13:31
Operator : SJ/JU
Sample : I6361-15
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BE2R7

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM111617.M
Quant Title : SVOA CALIBRATION

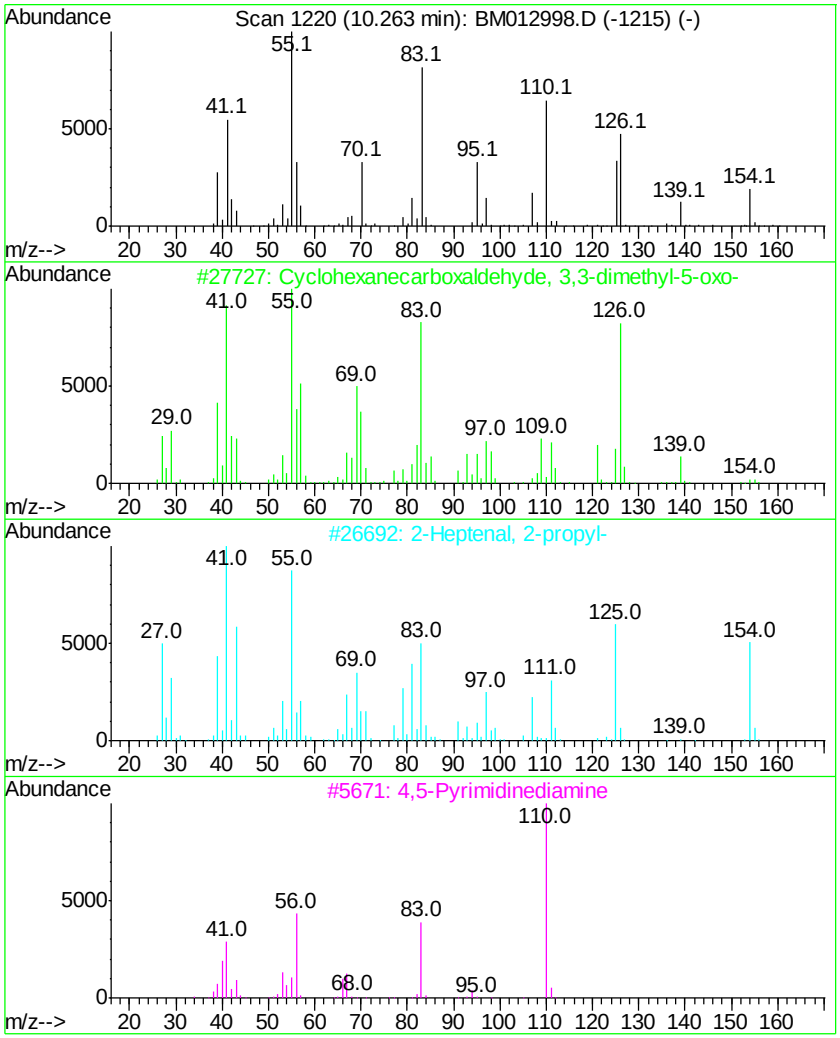
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

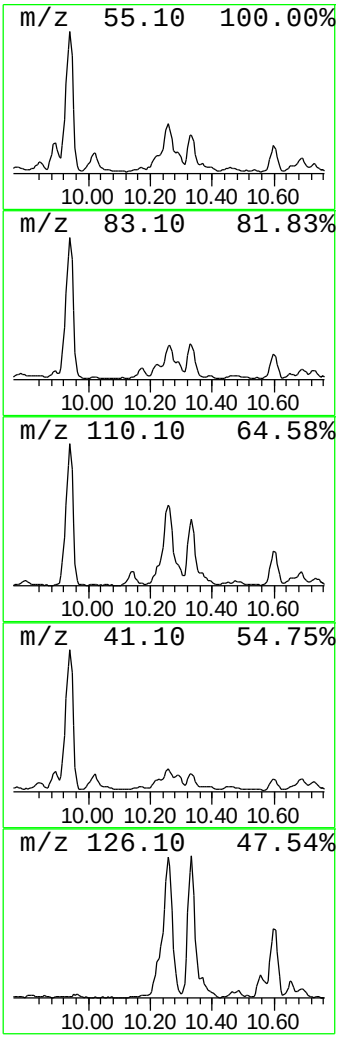
**********

Peak Number 30 unknown-05 Concentration Rank 36

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.26 | 22.85 ng/ul | 3091760 | Naphthalene-d8 | 10.51 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexanecarboxaldehyde, 3,3-d... | 154 | C9H14O2 | 065080-66-2 | 38 |
| 2 | 2-Heptenal, 2-propyl- | 154 | C10H18O | 034880-43-8 | 22 |
| 3 | 4,5-Pyrimidinediamine | 110 | C4H6N4 | 013754-19-3 | 22 |
| 4 | 1-Hexyn-3-ol | 98 | C6H10O | 000105-31-7 | 18 |
| 5 | (2-Methylbutyl)cyclohexane | 154 | C11H22 | 054105-77-0 | 12 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM111717\
Data File : BM012998.D
Acq On : 17 Nov 2017 13:31
Operator : SJ/JU
Sample : I6361-15
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BE2R7

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM111617.M
Quant Title : SVOA CALIBRATION

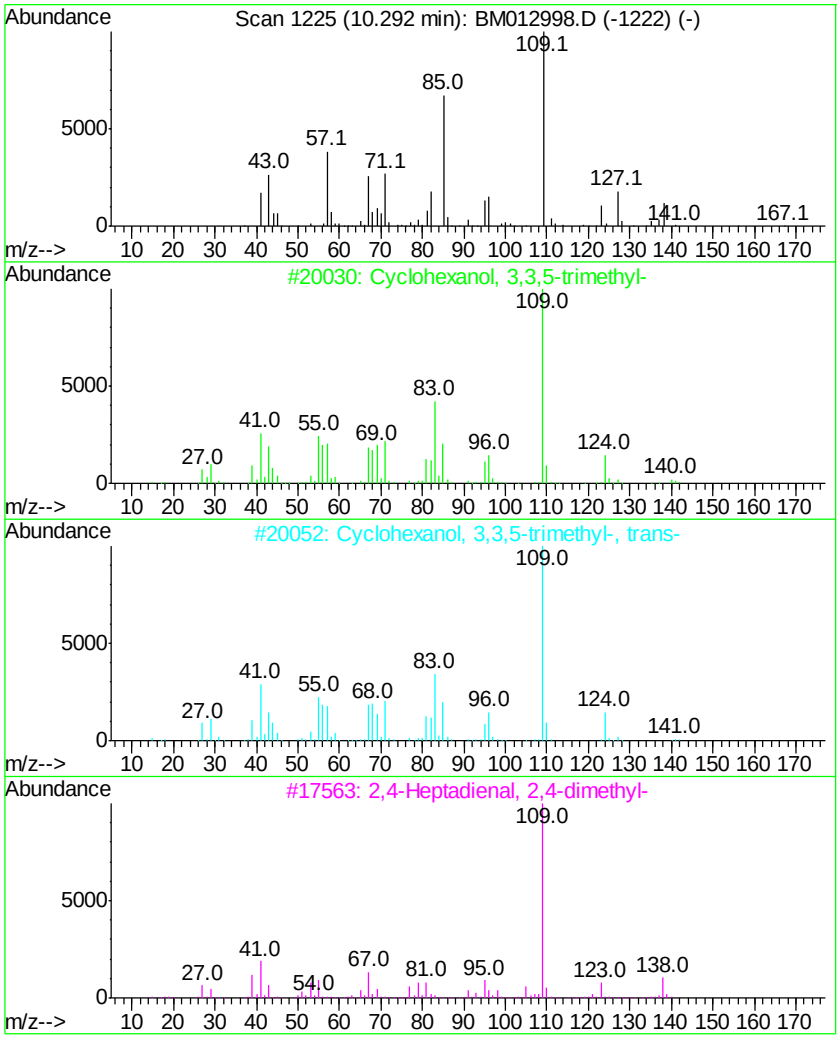
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

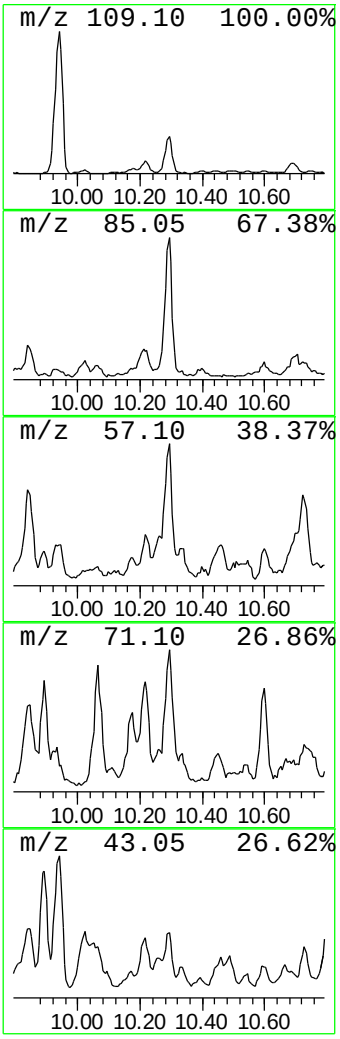
**********

Peak Number 31 unknown-06 Concentration Rank 53

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.29 | 13.87 ng/ul | 1876840 | Naphthalene-d8 | 10.51 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexanol, 3,3,5-trimethyl- | 142 | C9H18O | 000116-02-9 | 45 |
| 2 | Cyclohexanol, 3,3,5-trimethyl-, ... | 142 | C9H18O | 000767-54-4 | 45 |
| 3 | 2,4-Heptadienal, 2,4-dimethyl- | 138 | C9H14O | 042452-48-2 | 43 |
| 4 | Cyclohexanol, 3,3,5-trimethyl- | 142 | C9H18O | 000116-02-9 | 36 |
| 5 | 3,3,5-Trimethylcyclohexyl methyl... | 222 | C10H20FO2P | 1000298-38-1 | 32 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM111717\
Data File : BM012998.D
Acq On : 17 Nov 2017 13:31
Operator : SJ/JU
Sample : I6361-15
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BE2R7

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM111617.M
Quant Title : SVOA CALIBRATION

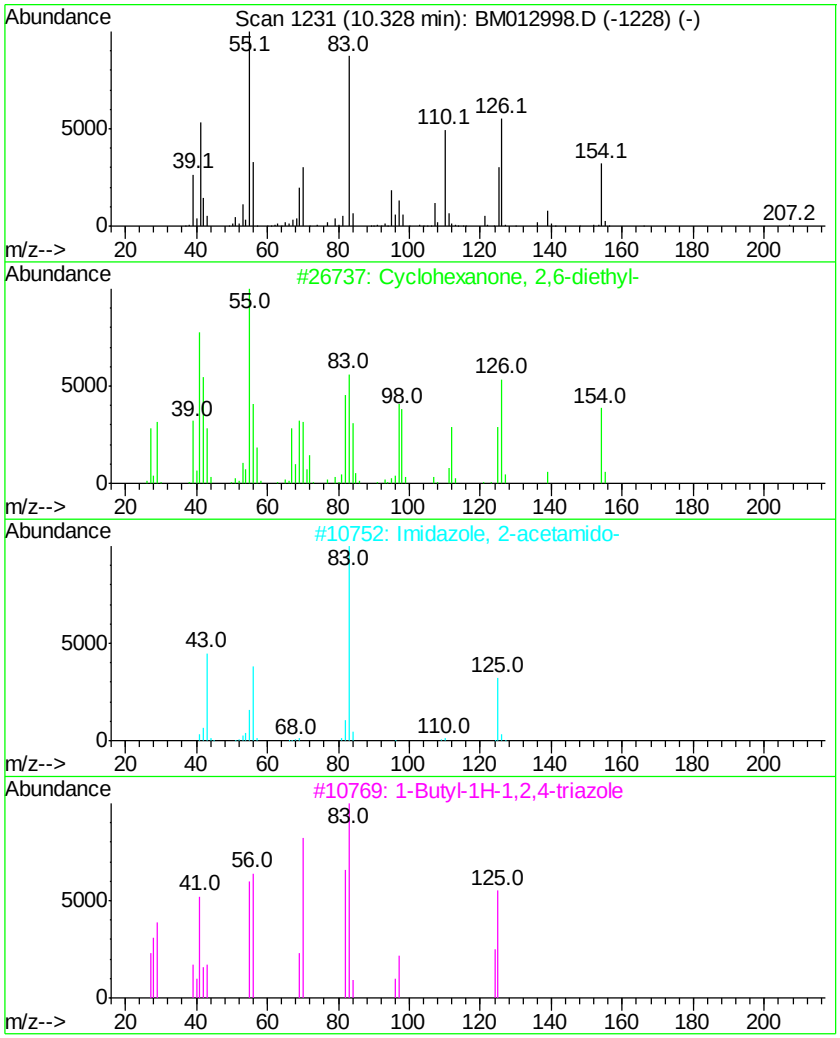
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

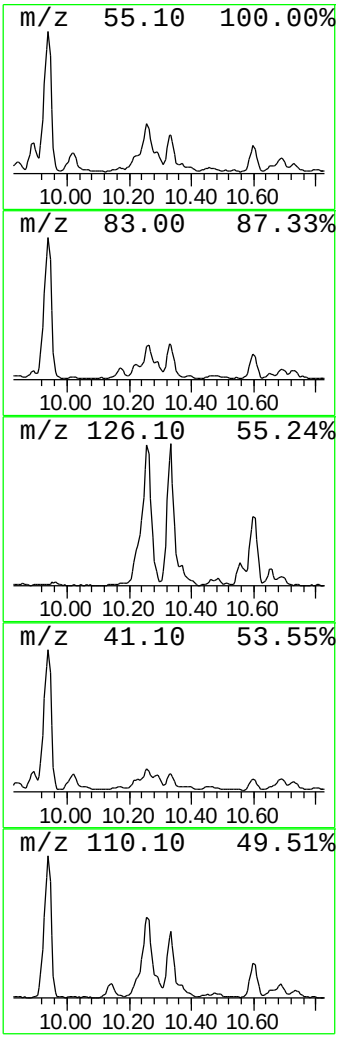
**********

Peak Number 32 unknown-07 Concentration Rank 55

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.33 | 13.44 ng/ul | 1817510 | Naphthalene-d8 | 10.51 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexanone, 2,6-diethyl- | 154 | C10H18O | 016519-68-9 | 43 |
| 2 | Imidazole, 2-acetamido- | 125 | C5H7N3O | 052737-49-2 | 38 |
| 3 | 1-Butyl-1H-1,2,4-triazole | 125 | C6H11N3 | 006086-22-2 | 30 |
| 4 | 1-Butyl-1H-1,2,4-triazole | 125 | C6H11N3 | 006086-22-2 | 30 |
| 5 | 2-Butenoic acid, 2-methyl-, 2-pr... | 140 | C8H12O2 | 007493-71-2 | 27 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM111717\
Data File : BM012998.D
Acq On : 17 Nov 2017 13:31
Operator : SJ/JU
Sample : I6361-15
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BE2R7

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM111617.M
Quant Title : SVOA CALIBRATION

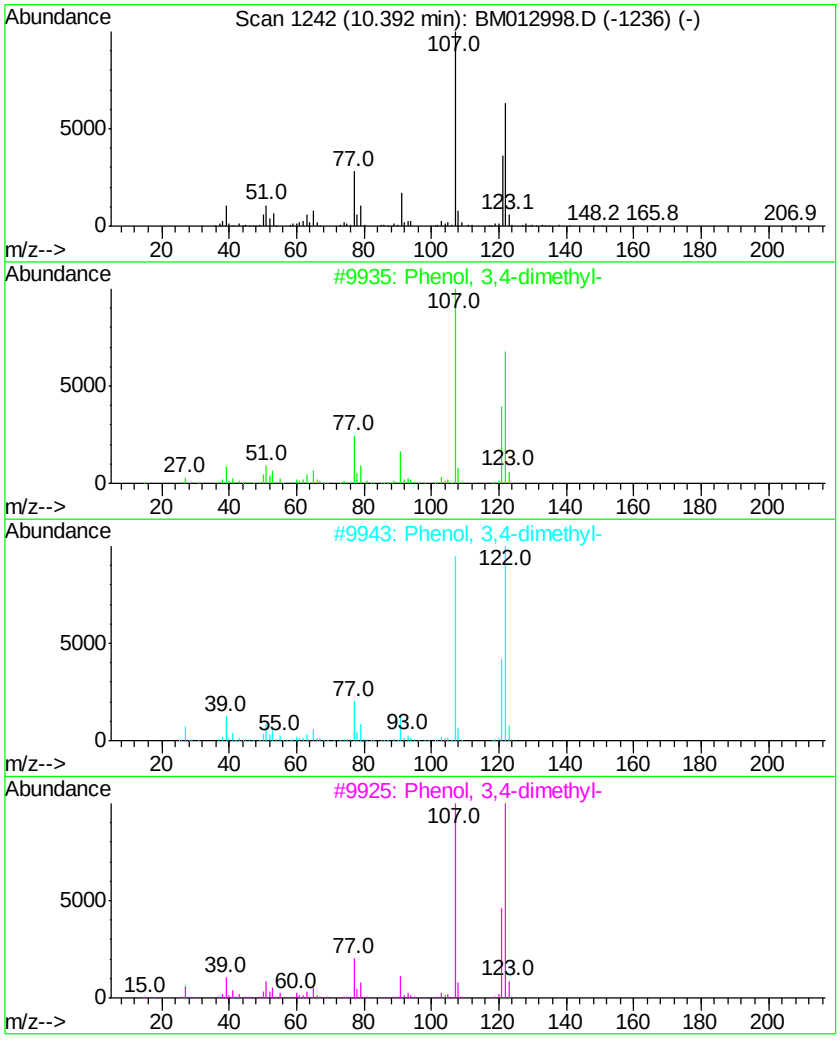
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

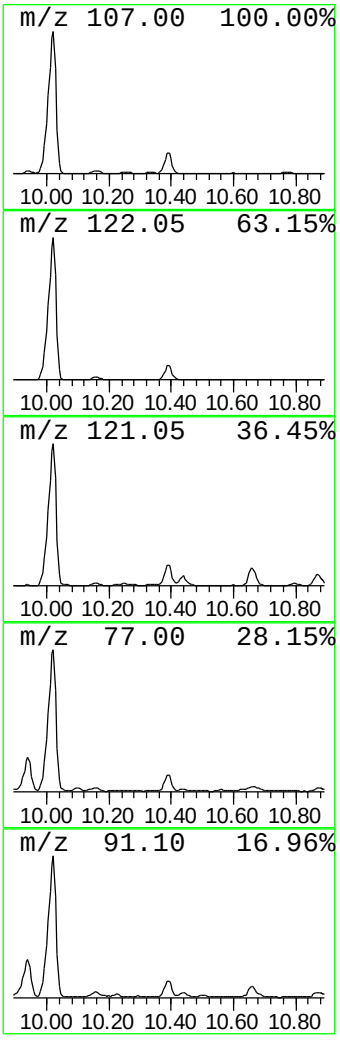
**********

Peak Number 33 Phenol, 3,4-dimethyl- Concentration Rank 41

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.39 | 20.00 ng/ul | 2705630 | Naphthalene-d8 | 10.51 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenol, 3,4-dimethyl- | 122 | C8H10O | 000095-65-8 | 96 |
| 2 | Phenol, 3,4-dimethyl- | 122 | C8H10O | 000095-65-8 | 93 |
| 3 | Phenol, 3,4-dimethyl- | 122 | C8H10O | 000095-65-8 | 93 |
| 4 | Phenol, 3-ethyl- | 122 | C8H10O | 000620-17-7 | 91 |
| 5 | Phenol, 2-ethyl- | 122 | C8H10O | 000090-00-6 | 90 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM111717\
Data File : BM012998.D
Acq On : 17 Nov 2017 13:31
Operator : SJ/JU
Sample : I6361-15
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BE2R7

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM111617.M
Quant Title : SVOA 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 |
| 3-Pentanol, 3-met... | 3.77 | 36.1 | ng/ul | 3006570 | 1 | 7.73 | 1663500 | 20.0 |
| 2-Pentanone, 3-et... | 4.95 | 18.1 | ng/ul | 1501800 | 1 | 7.73 | 1663500 | 20.0 |
| 3-Hydroxy-3-methy... | 5.21 | 25.9 | ng/ul | 2151940 | 1 | 7.73 | 1663500 | 20.0 |
| Benzene, 1,3-dime... | 5.42 | 1629.2 | ng/ul | 135508000 | 1 | 7.73 | 1663500 | 20.0 |
| n-Butyl ether | 5.47 | 49.1 | ng/ul | 4084250 | 1 | 7.73 | 1663500 | 20.0 |
| Benzene, (1-methy... | 6.23 | 36.3 | ng/ul | 3018910 | 1 | 7.73 | 1663500 | 20.0 |
| 3-Heptanone, 5-me... | 6.42 | 230.8 | ng/ul | 19199300 | 1 | 7.73 | 1663500 | 20.0 |
| Benzene, propyl- | 6.72 | 53.8 | ng/ul | 4477690 | 1 | 7.73 | 1663500 | 20.0 |
| Benzene, 1-ethyl-... | 6.82 | 42.1 | ng/ul | 3502510 | 1 | 7.73 | 1663500 | 20.0 |
| Benzene, 1,2,3-tr... | 7.38 | 171.9 | ng/ul | 14298000 | 1 | 7.73 | 1663500 | 20.0 |
| unknown-01 | 7.43 | 68.8 | ng/ul | 5721130 | 1 | 7.73 | 1663500 | 20.0 |
| unknown-02 | 7.93 | 167.6 | ng/ul | 13938800 | 1 | 7.73 | 1663500 | 20.0 |
| Indane | 8.09 | 30.2 | ng/ul | 2514430 | 1 | 7.73 | 1663500 | 20.0 |
| Cyclohexanone, 3,... | 8.17 | 450.0 | ng/ul | 37430600 | 1 | 7.73 | 1663500 | 20.0 |
| Benzene, 1,3-diet... | 8.22 | 20.8 | ng/ul | 1726390 | 1 | 7.73 | 1663500 | 20.0 |
| Dibutoxymethane | 8.28 | 25.0 | ng/ul | 2075940 | 1 | 7.73 | 1663500 | 20.0 |
| unknown-03 | 8.36 | 234.8 | ng/ul | 19532600 | 1 | 7.73 | 1663500 | 20.0 |
| (DEL) Alkane: Cyc... | 8.72 | 21.0 | ng/ul | 1748640 | 1 | 7.73 | 1663500 | 20.0 |
| Bicyclo[2.2.1]hep... | 8.96 | 54.5 | ng/ul | 4531580 | 1 | 7.73 | 1663500 | 20.0 |
| unknown-04 | 9.52 | 25.5 | ng/ul | 3446370 | 2 | 10.51 | 2705630 | 20.0 |
| Cyclohexanemethan... | 9.89 | 25.6 | ng/ul | 3456420 | 2 | 10.51 | 2705630 | 20.0 |
| Bicyclo[2.2.1]hep... | 9.94 | 172.4 | ng/ul | 23318700 | 2 | 10.51 | 2705630 | 20.0 |
| Phenol, 3,5-dimet... | 10.02 | 178.9 | ng/ul | 24205000 | 2 | 10.51 | 2705630 | 20.0 |
| (DEL) Alkane: Cyc... | 10.22 | 12.1 | ng/ul | 1634280 | 2 | 10.51 | 2705630 | 20.0 |
| unknown-05 | 10.26 | 22.9 | ng/ul | 3091760 | 2 | 10.51 | 2705630 | 20.0 |
| unknown-06 | 10.29 | 13.9 | ng/ul | 1876840 | 2 | 10.51 | 2705630 | 20.0 |
| unknown-07 | 10.33 | 13.4 | ng/ul | 1817510 | 2 | 10.51 | 2705630 | 20.0 |
| Phenol, 3,4-dimet... | 10.39 | 20.0 | ng/ul | 2705630 | 2 | 10.51 | 2705630 | 20.0 |