

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU060719\  
 Data File : VU032534.D  
 Acq On : 07 Jun 2019 11:32  
 Operator : JC/SP  
 Sample : K3215-13DL 20X  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 DB8J8DL

## Integration Parameters: LSCINT.P

Integrator: RTE  
 Smoothing : OFF  
 Sampling : 1  
 Start Thrs: 0.2  
 Stop Thrs : 0

Filtering: 5  
 Min Area: 0 % of largest Peak  
 Max Peaks: 100  
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
 Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM060619WMA.M  
 Title : VOC Analysis

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|--------|----------|------------|----------|-----------|-------|-------------|------------|--------------|------------|
| 1      | 1.395    | 87         | 95       | 110       | rVB   | 130194      | 136138     | 6.11%        | 0.987%     |
| 2      | 1.675    | 175        | 182      | 194       | rVB   | 89909       | 111042     | 4.99%        | 0.805%     |
| 3      | 2.267    | 353        | 366      | 375       | rBV   | 197319      | 302297     | 13.57%       | 2.191%     |
| 4      | 2.315    | 375        | 381      | 407       | rVB   | 82932       | 134053     | 6.02%        | 0.971%     |
| 5      | 2.440    | 408        | 420      | 436       | rBV   | 11971       | 21932      | 0.98%        | 0.159%     |
| 6      | 2.559    | 455        | 457      | 462       | rVB2  | 416         | 218        | 0.01%        | 0.002%     |
| 7      | 2.608    | 469        | 472      | 475       | rBV3  | 277         | 219        | 0.01%        | 0.002%     |
| 8      | 2.694    | 492        | 499      | 511       | rVB5  | 1071        | 1928       | 0.09%        | 0.014%     |
| 9      | 2.820    | 530        | 538      | 552       | rVB6  | 1336        | 3211       | 0.14%        | 0.023%     |
| 10     | 2.907    | 562        | 565      | 568       | rBV2  | 312         | 219        | 0.01%        | 0.002%     |
| 11     | 2.939    | 572        | 575      | 578       | rBV2  | 377         | 221        | 0.01%        | 0.002%     |
| 12     | 2.987    | 583        | 590      | 595       | rVV4  | 623         | 814        | 0.04%        | 0.006%     |
| 13     | 3.183    | 637        | 651      | 670       | rBV   | 11632       | 27076      | 1.22%        | 0.196%     |
| 14     | 3.289    | 682        | 684      | 687       | rBV   | 342         | 219        | 0.01%        | 0.002%     |
| 15     | 3.444    | 723        | 732      | 740       | rBV2  | 1097        | 1944       | 0.09%        | 0.014%     |
| 16     | 3.476    | 740        | 742      | 747       | rVV2  | 302         | 230        | 0.01%        | 0.002%     |
| 17     | 3.981    | 887        | 899      | 927       | rBV2  | 55744       | 145522     | 6.53%        | 1.055%     |
| 18     | 4.170    | 946        | 958      | 988       | rBV   | 73157       | 190499     | 8.55%        | 1.381%     |
| 19     | 4.640    | 1087       | 1104     | 1124      | rBV   | 132363      | 310193     | 13.93%       | 2.248%     |
| 20     | 4.884    | 1176       | 1180     | 1184      | rBV   | 467         | 476        | 0.02%        | 0.003%     |
| 21     | 5.334    | 1296       | 1320     | 1352      | rBV2  | 277125      | 829138     | 37.23%       | 6.009%     |
| 22     | 5.505    | 1369       | 1373     | 1377      | rBV3  | 334         | 283        | 0.01%        | 0.002%     |
| 23     | 5.807    | 1461       | 1467     | 1471      | rVV3  | 439         | 466        | 0.02%        | 0.003%     |
| 24     | 5.881    | 1477       | 1490     | 1519      | rVV   | 253517      | 491175     | 22.06%       | 3.560%     |
| 25     | 6.180    | 1575       | 1583     | 1594      | rVB7  | 2712        | 5481       | 0.25%        | 0.040%     |
| 26     | 6.324    | 1614       | 1628     | 1652      | rBV   | 177885      | 357950     | 16.07%       | 2.594%     |
| 27     | 6.434    | 1657       | 1662     | 1665      | rBV6  | 821         | 933        | 0.04%        | 0.007%     |
| 28     | 7.222    | 1896       | 1907     | 1926      | rBV   | 103544      | 186883     | 8.39%        | 1.354%     |
| 29     | 7.369    | 1950       | 1953     | 1956      | rBV3  | 271         | 226        | 0.01%        | 0.002%     |
| 30     | 7.460    | 1970       | 1981     | 1999      | rBV   | 24086       | 43985      | 1.98%        | 0.319%     |
| 31     | 7.559    | 2000       | 2012     | 2027      | rVV   | 383401      | 667442     | 29.97%       | 4.837%     |
| 32     | 7.633    | 2028       | 2035     | 2055      | rVB   | 37527       | 69119      | 3.10%        | 0.501%     |
| 33     | 7.845    | 2090       | 2101     | 2118      | rBV   | 71503       | 123508     | 5.55%        | 0.895%     |
| 34     | 8.170    | 2192       | 2202     | 2215      | rVB3  | 1548        | 2668       | 0.12%        | 0.019%     |

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 Max Peaks: 100  
 Peak Location: TOP

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 Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM060619WMA.M  
 Title : VOC Analysis

|    |        |      |      |      |      |         |         |         |         |
|----|--------|------|------|------|------|---------|---------|---------|---------|
| 35 | 8.238  | 2215 | 2223 | 2230 | rBV6 | 2865    | 5281    | 0.24%   | 0.038%  |
| 36 | 8.305  | 2233 | 2244 | 2288 | rVV  | 382153  | 670152  | 30.09%  | 4.857%  |
| 37 | 8.572  | 2320 | 2327 | 2335 | rBV2 | 1539    | 2268    | 0.10%   | 0.016%  |
| 38 | 8.688  | 2362 | 2363 | 2368 | rVB2 | 457     | 250     | 0.01%   | 0.002%  |
| 39 | 8.755  | 2377 | 2384 | 2387 | rBV2 | 225     | 329     | 0.01%   | 0.002%  |
| 40 | 8.781  | 2390 | 2392 | 2396 | rVB2 | 327     | 222     | 0.01%   | 0.002%  |
| 41 | 9.083  | 2464 | 2486 | 2508 | rBV  | 364608  | 639491  | 28.72%  | 4.634%  |
| 42 | 9.247  | 2528 | 2537 | 2546 | rBV  | 12914   | 19766   | 0.89%   | 0.143%  |
| 43 | 9.369  | 2562 | 2575 | 2589 | rBV2 | 46358   | 80995   | 3.64%   | 0.587%  |
| 44 | 9.463  | 2597 | 2604 | 2620 | rVB3 | 5342    | 10069   | 0.45%   | 0.073%  |
| 45 | 9.543  | 2620 | 2629 | 2640 | rBV9 | 2702    | 5900    | 0.26%   | 0.043%  |
| 46 | 9.601  | 2640 | 2647 | 2665 | rVB  | 11842   | 20637   | 0.93%   | 0.150%  |
| 47 | 9.775  | 2691 | 2701 | 2710 | rBV  | 24620   | 39737   | 1.78%   | 0.288%  |
| 48 | 9.900  | 2732 | 2740 | 2742 | rBV4 | 2451    | 2830    | 0.13%   | 0.021%  |
| 49 | 10.160 | 2810 | 2821 | 2832 | rBV2 | 5622    | 9067    | 0.41%   | 0.066%  |
| 50 | 10.302 | 2857 | 2865 | 2867 | rBV7 | 1119    | 1368    | 0.06%   | 0.010%  |
| 51 | 10.395 | 2876 | 2894 | 2897 | rBV  | 84710   | 137332  | 6.17%   | 0.995%  |
| 52 | 10.427 | 2897 | 2904 | 2919 | rVB  | 252610  | 409075  | 18.37%  | 2.965%  |
| 53 | 10.585 | 2947 | 2953 | 2965 | rVB3 | 8248    | 13409   | 0.60%   | 0.097%  |
| 54 | 10.678 | 2967 | 2982 | 2999 | rVV  | 29800   | 70001   | 3.14%   | 0.507%  |
| 55 | 10.778 | 3002 | 3013 | 3024 | rVV2 | 61012   | 115930  | 5.21%   | 0.840%  |
| 56 | 10.842 | 3024 | 3033 | 3042 | rVB4 | 10738   | 17085   | 0.77%   | 0.124%  |
| 57 | 10.913 | 3042 | 3055 | 3065 | rBV  | 302704  | 460378  | 20.67%  | 3.336%  |
| 58 | 10.967 | 3065 | 3072 | 3088 | rVB  | 34512   | 57248   | 2.57%   | 0.415%  |
| 59 | 11.061 | 3093 | 3101 | 3109 | rBV3 | 7956    | 11109   | 0.50%   | 0.081%  |
| 60 | 11.144 | 3117 | 3127 | 3139 | rBV  | 68882   | 105959  | 4.76%   | 0.768%  |
| 61 | 11.234 | 3143 | 3155 | 3167 | rBV  | 85121   | 133825  | 6.01%   | 0.970%  |
| 62 | 11.318 | 3168 | 3181 | 3196 | rVB  | 144534  | 234037  | 10.51%  | 1.696%  |
| 63 | 11.405 | 3198 | 3208 | 3211 | rBV4 | 19546   | 29500   | 1.32%   | 0.214%  |
| 64 | 11.472 | 3218 | 3229 | 3239 | rBV3 | 1383362 | 2226912 | 100.00% | 16.138% |
| 65 | 11.530 | 3239 | 3247 | 3257 | rVB  | 580764  | 850683  | 38.20%  | 6.165%  |
| 66 | 11.627 | 3270 | 3277 | 3283 | rBV2 | 9974    | 15617   | 0.70%   | 0.113%  |
| 67 | 11.723 | 3298 | 3307 | 3315 | rBV  | 28884   | 45943   | 2.06%   | 0.333%  |
| 68 | 11.855 | 3337 | 3348 | 3361 | rBV  | 393989  | 641852  | 28.82%  | 4.652%  |
| 69 | 11.983 | 3382 | 3388 | 3393 | rBV6 | 2198    | 3062    | 0.14%   | 0.022%  |
| 70 | 12.141 | 3426 | 3437 | 3462 | rVB  | 183345  | 318612  | 14.31%  | 2.309%  |
| 71 | 12.254 | 3464 | 3472 | 3488 | rVB6 | 12328   | 21700   | 0.97%   | 0.157%  |

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 Min Area: 0 % of largest Peak  
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 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
 Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM060619WMA.M  
 Title : VOC Analysis

|     |        |      |      |      |       |        |         |        |         |
|-----|--------|------|------|------|-------|--------|---------|--------|---------|
| 72  | 12.334 | 3489 | 3497 | 3498 | rBV5  | 3661   | 4339    | 0.19%  | 0.031%  |
| 73  | 12.408 | 3513 | 3520 | 3538 | rVB5  | 9294   | 22662   | 1.02%  | 0.164%  |
| 74  | 12.508 | 3538 | 3551 | 3559 | rBV7  | 15247  | 36003   | 1.62%  | 0.261%  |
| 75  | 12.620 | 3580 | 3586 | 3598 | rBV10 | 6009   | 9979    | 0.45%  | 0.072%  |
| 76  | 12.691 | 3599 | 3608 | 3623 | rVB2  | 54028  | 88479   | 3.97%  | 0.641%  |
| 77  | 12.781 | 3623 | 3636 | 3649 | rBV   | 43248  | 69937   | 3.14%  | 0.507%  |
| 78  | 12.909 | 3671 | 3676 | 3682 | rBV6  | 2628   | 3964    | 0.18%  | 0.029%  |
| 79  | 13.006 | 3698 | 3706 | 3714 | rBV6  | 9105   | 15828   | 0.71%  | 0.115%  |
| 80  | 13.070 | 3714 | 3726 | 3749 | rBV   | 922873 | 1458969 | 65.52% | 10.573% |
| 81  | 13.180 | 3750 | 3760 | 3766 | rBV   | 81004  | 132327  | 5.94%  | 0.959%  |
| 82  | 13.350 | 3804 | 3813 | 3824 | rBV9  | 9726   | 24895   | 1.12%  | 0.180%  |
| 83  | 13.411 | 3826 | 3832 | 3846 | rVB2  | 21557  | 38604   | 1.73%  | 0.280%  |
| 84  | 13.501 | 3852 | 3860 | 3869 | rVB4  | 11139  | 17569   | 0.79%  | 0.127%  |
| 85  | 13.607 | 3885 | 3893 | 3896 | rBV3  | 9023   | 12609   | 0.57%  | 0.091%  |
| 86  | 13.646 | 3897 | 3905 | 3916 | rVB   | 66355  | 109202  | 4.90%  | 0.791%  |
| 87  | 13.745 | 3929 | 3936 | 3953 | rVB   | 13249  | 29497   | 1.32%  | 0.214%  |
| 88  | 13.829 | 3957 | 3962 | 3963 | rBV3  | 3071   | 2590    | 0.12%  | 0.019%  |
| 89  | 13.987 | 4001 | 4011 | 4018 | rBV8  | 3754   | 6915    | 0.31%  | 0.050%  |
| 90  | 14.051 | 4019 | 4031 | 4043 | rVV8  | 9698   | 25306   | 1.14%  | 0.183%  |
| 91  | 14.196 | 4071 | 4076 | 4083 | rVB7  | 3942   | 5247    | 0.24%  | 0.038%  |
| 92  | 14.257 | 4086 | 4095 | 4105 | rBV2  | 21631  | 31572   | 1.42%  | 0.229%  |
| 93  | 14.430 | 4139 | 4149 | 4160 | rBV2  | 19841  | 31462   | 1.41%  | 0.228%  |
| 94  | 14.572 | 4184 | 4193 | 4199 | rVV6  | 1884   | 2816    | 0.13%  | 0.020%  |
| 95  | 14.614 | 4202 | 4206 | 4216 | rVB3  | 1843   | 2611    | 0.12%  | 0.019%  |
| 96  | 14.842 | 4270 | 4277 | 4285 | rBV2  | 3446   | 5648    | 0.25%  | 0.041%  |
| 97  | 15.012 | 4323 | 4330 | 4337 | rBV7  | 3396   | 5808    | 0.26%  | 0.042%  |
| 98  | 15.067 | 4340 | 4347 | 4354 | rVV8  | 3110   | 5102    | 0.23%  | 0.037%  |
| 99  | 15.311 | 4415 | 4423 | 4435 | rBV5  | 1433   | 3085    | 0.14%  | 0.022%  |
| 100 | 15.405 | 4449 | 4452 | 4457 | rBV2  | 531    | 429     | 0.02%  | 0.003%  |

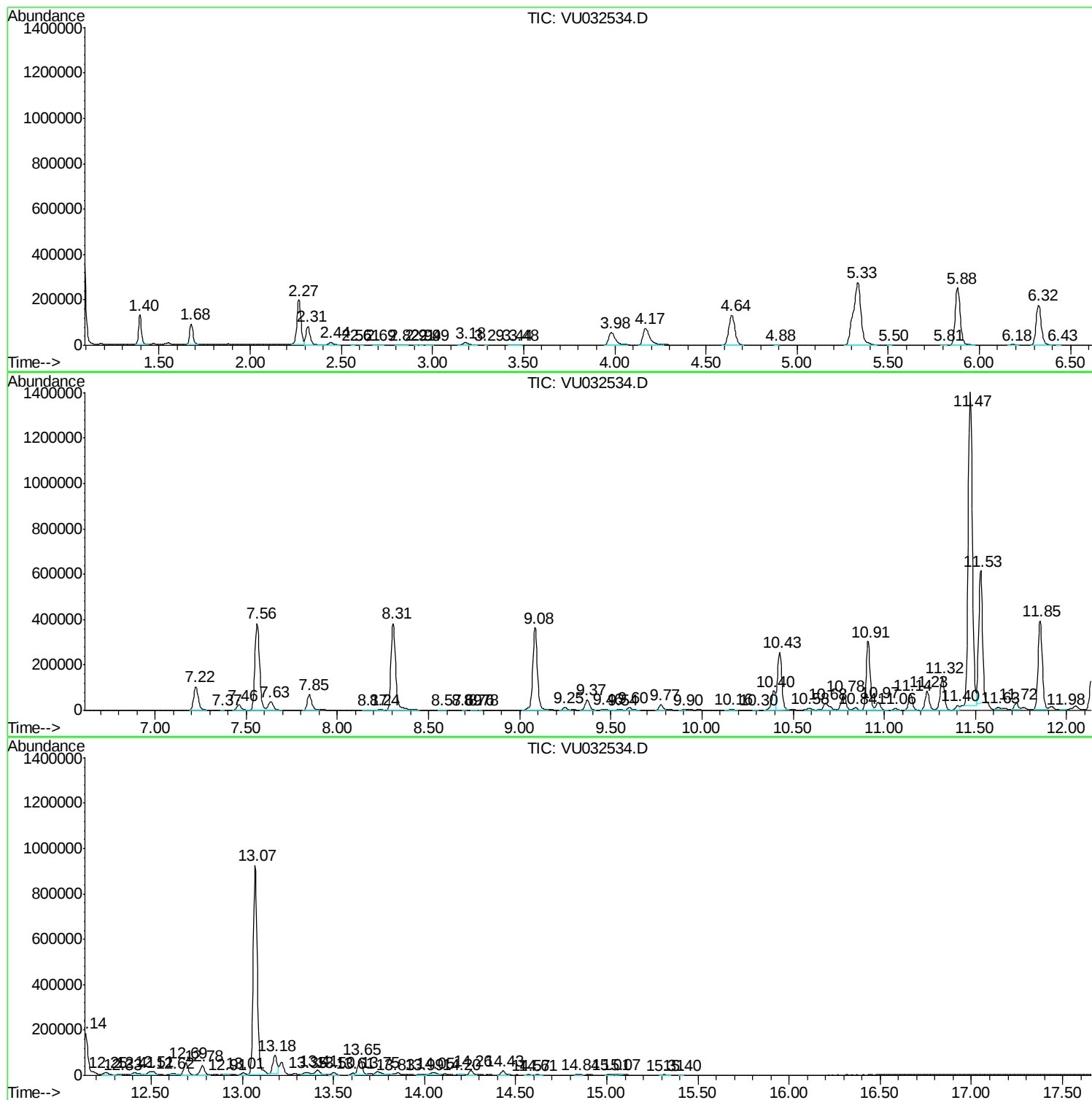
Sum of corrected areas: 13798793

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM060619WMA.M  
Quant Title : VOC Analysis

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



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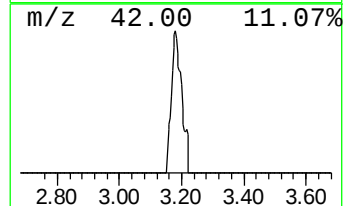
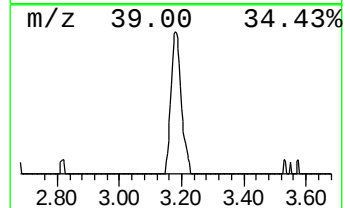
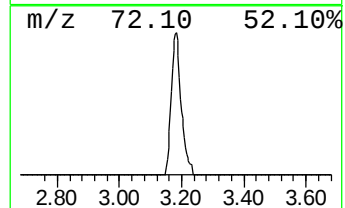
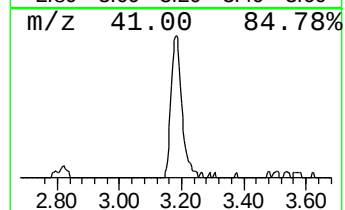
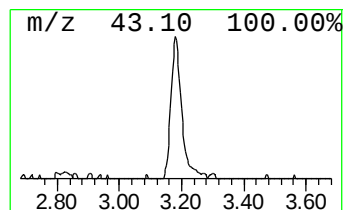
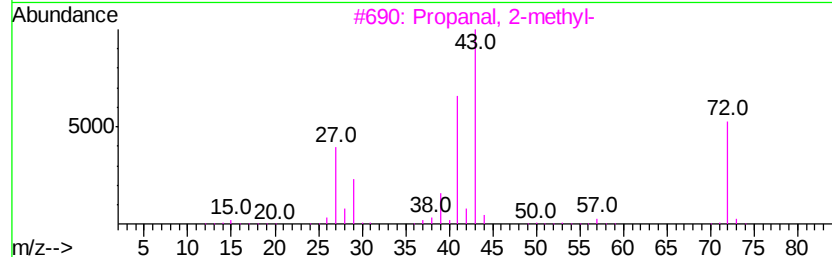
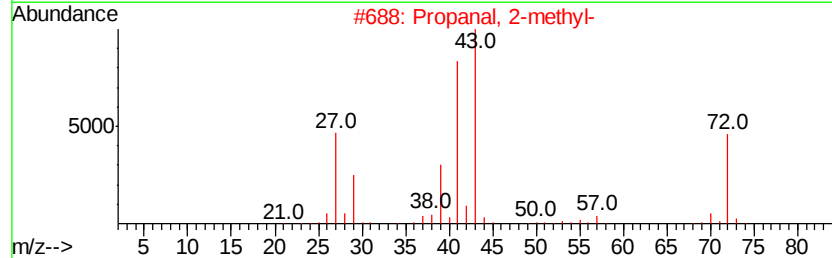
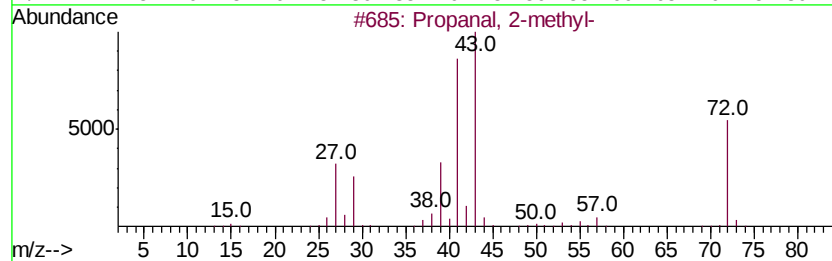
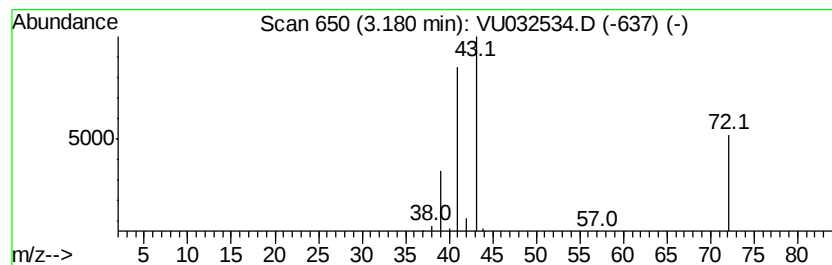
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 Propanal, 2-methyl- Concentration Rank 10

| R.T. | EstConc   | Area  | Relative to ISTD    | R.T. |
|------|-----------|-------|---------------------|------|
| 3.18 | 2.76 ug/L | 27076 | 1,4-Difluorobenzene | 5.88 |

| Hit# | of | Tentative ID        | MW | MolForm | CAS#        | Qual |
|------|----|---------------------|----|---------|-------------|------|
| 1    | 5  | Propanal, 2-methyl- | 72 | C4H8O   | 000078-84-2 | 91   |
| 2    |    | Propanal, 2-methyl- | 72 | C4H8O   | 000078-84-2 | 91   |
| 3    |    | Propanal, 2-methyl- | 72 | C4H8O   | 000078-84-2 | 83   |
| 4    |    | Butanal             | 72 | C4H8O   | 000123-72-8 | 53   |
| 5    |    | Propane, 1-nitro-   | 89 | C3H7NO2 | 000108-03-2 | 37   |



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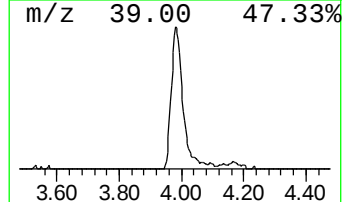
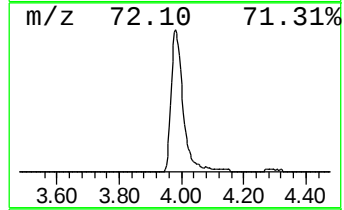
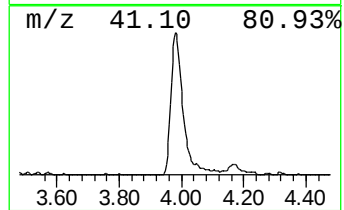
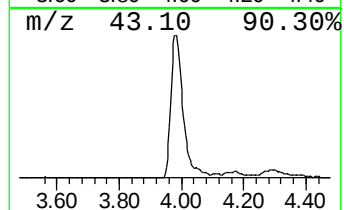
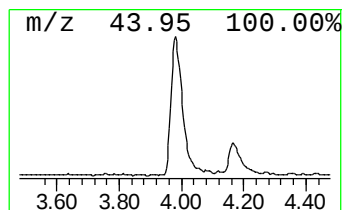
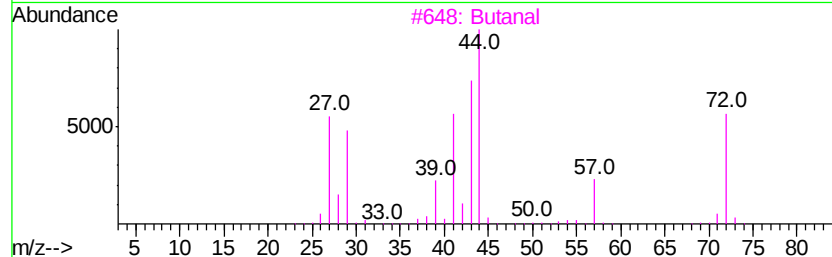
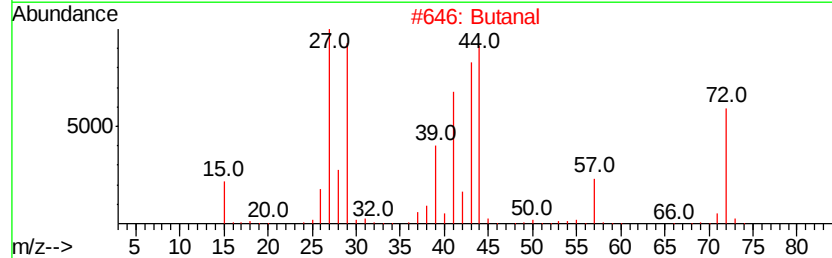
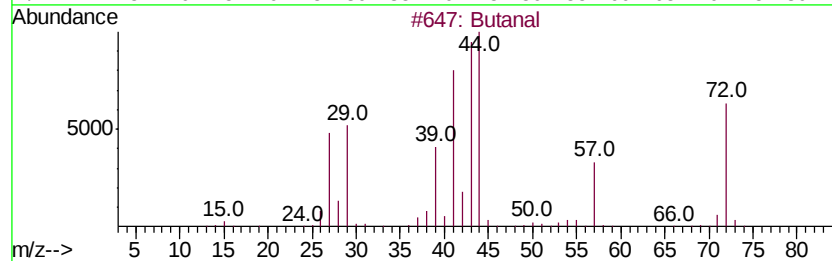
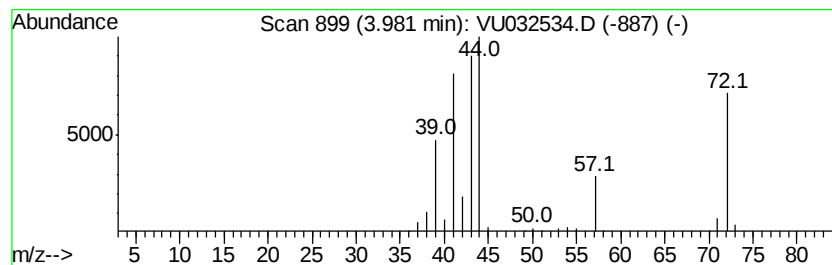
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Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 2 Butanal Concentration Rank 4

| R.T. | EstConc    | Area   | Relative to ISTD    | R.T. |
|------|------------|--------|---------------------|------|
| 3.98 | 14.81 ug/L | 145522 | 1,4-Difluorobenzene | 5.88 |

| Hit# | of | Tentative ID    | MW | MolForm | CAS#        | Qual |
|------|----|-----------------|----|---------|-------------|------|
| 1    | 5  | Butanal         | 72 | C4H8O   | 000123-72-8 | 94   |
| 2    |    | Butanal         | 72 | C4H8O   | 000123-72-8 | 91   |
| 3    |    | Butanal         | 72 | C4H8O   | 000123-72-8 | 64   |
| 4    |    | Butanal         | 72 | C4H8O   | 000123-72-8 | 64   |
| 5    |    | Ethene, ethoxy- | 72 | C4H8O   | 000109-92-2 | 50   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU060719\  
Data File : VU032534.D  
Acq On : 07 Jun 2019 11:32  
Operator : JC/SP  
Sample : K3215-13DL 20X  
Misc : 5.0mL/MSVOA U/WATER  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
DB8J8DL

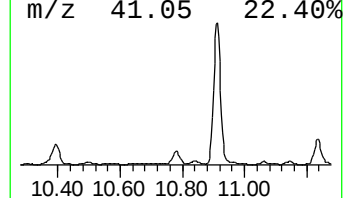
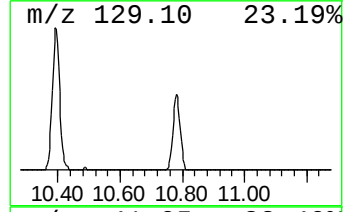
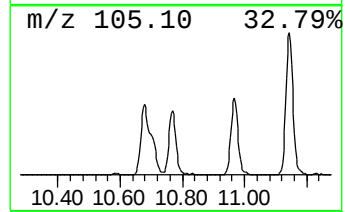
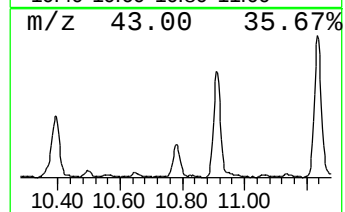
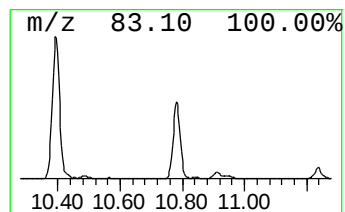
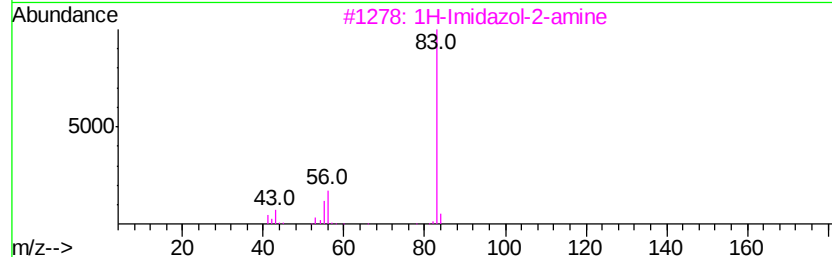
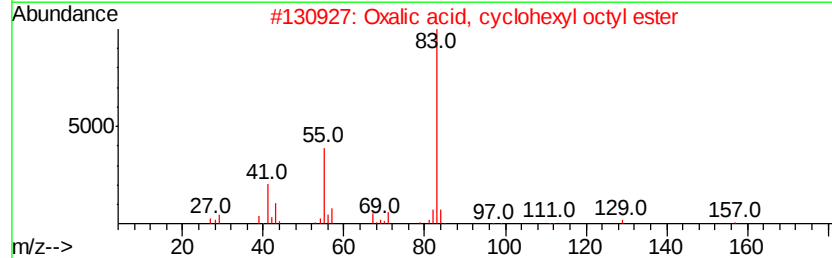
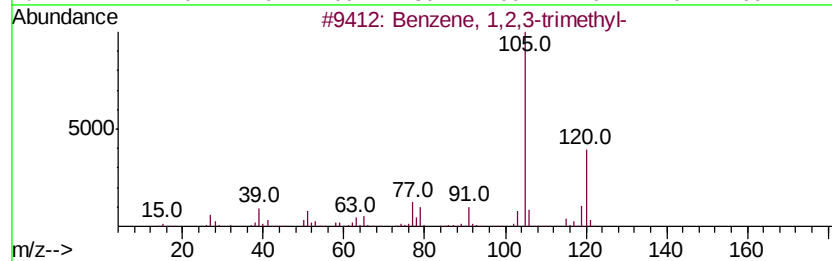
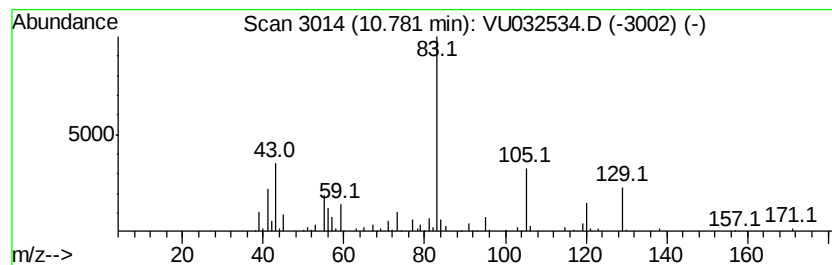
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Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 4 Benzene, 1,2,3-trimethyl- Concentration Rank 11

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 10.78 | 2.60 ug/L | 115930 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|----------|--------------|------|
| 1    |    |   | Benzene, 1,2,3-trimethyl-           | 120 | C9H12    | 000526-73-8  | 56   |
| 2    |    |   | Oxalic acid, cyclohexyl octyl ester | 284 | C16H28O4 | 1000309-31-0 | 38   |
| 3    |    |   | 1H-Imidazol-2-amine                 | 83  | C3H5N3   | 007720-39-0  | 35   |
| 4    |    |   | 3-Methyl-2-butenic acid, phenyl...  | 176 | C11H12O2 | 054897-52-8  | 35   |
| 5    |    |   | 2,6-Octadiene, 2,4-dimethyl-        | 138 | C10H18   | 063843-03-8  | 35   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU060719\  
Data File : VU032534.D  
Acq On : 07 Jun 2019 11:32  
Operator : JC/SP  
Sample : K3215-13DL 20X  
Misc : 5.0mL/MSVOA U/WATER  
ALS Vial : 6 Sample Multiplier: 1

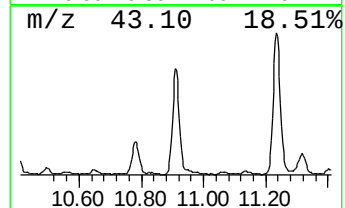
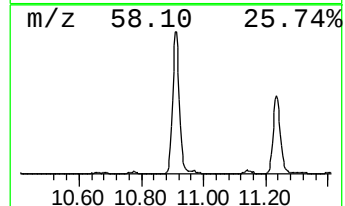
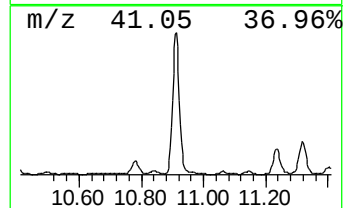
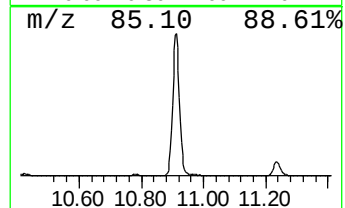
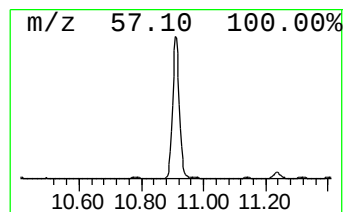
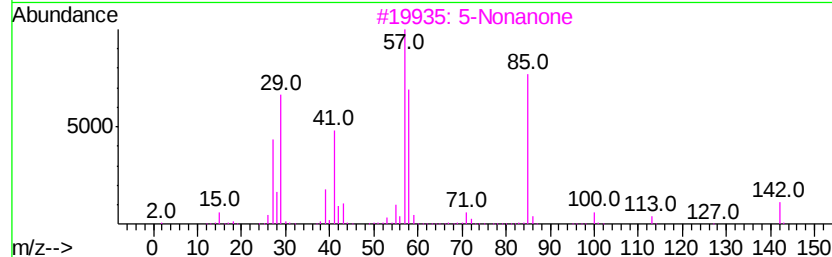
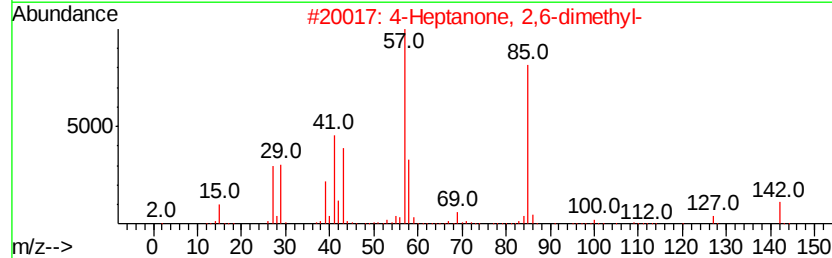
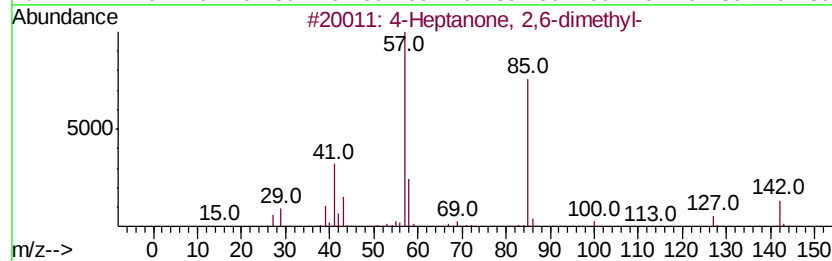
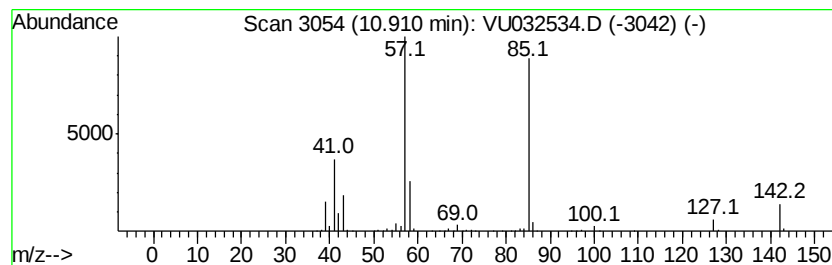
Instrument :  
MSVOA\_U  
ClientSampleId :  
DB8J8DL

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM060619WMA.M  
Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 5 4-Heptanone, 2,6-dimethyl- Concentration Rank 5

| R.T.      | EstConc                    | Area   | Relative to ISTD       | R.T.        |      |
|-----------|----------------------------|--------|------------------------|-------------|------|
| 10.91     | 10.34 ug/L                 | 460378 | 1,4-Dichlorobenzene-d4 | 11.48       |      |
| Hit# of 5 | Tentative ID               | MW     | MolForm                | CAS#        | Qual |
| 1         | 4-Heptanone, 2,6-dimethyl- | 142    | C9H18O                 | 000108-83-8 | 94   |
| 2         | 4-Heptanone, 2,6-dimethyl- | 142    | C9H18O                 | 000108-83-8 | 72   |
| 3         | 5-Nonanone                 | 142    | C9H18O                 | 000502-56-7 | 64   |
| 4         | 5-Nonanone                 | 142    | C9H18O                 | 000502-56-7 | 64   |
| 5         | 5-Nonanone                 | 142    | C9H18O                 | 000502-56-7 | 53   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU060719\  
Data File : VU032534.D  
Acq On : 07 Jun 2019 11:32  
Operator : JC/SP  
Sample : K3215-13DL 20X  
Misc : 5.0mL/MSVOA U/WATER  
ALS Vial : 6 Sample Multiplier: 1

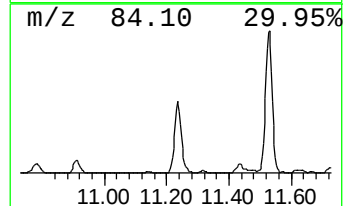
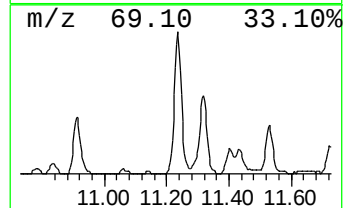
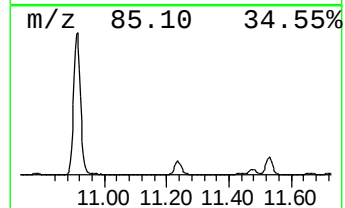
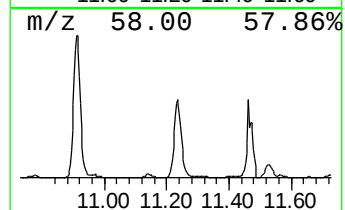
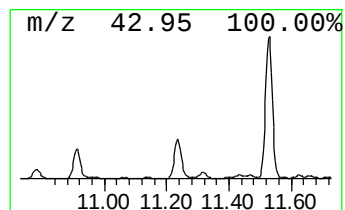
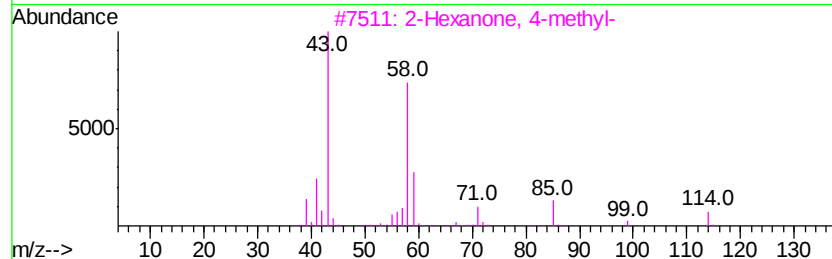
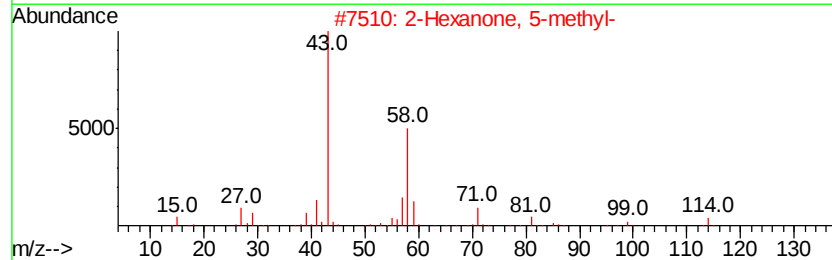
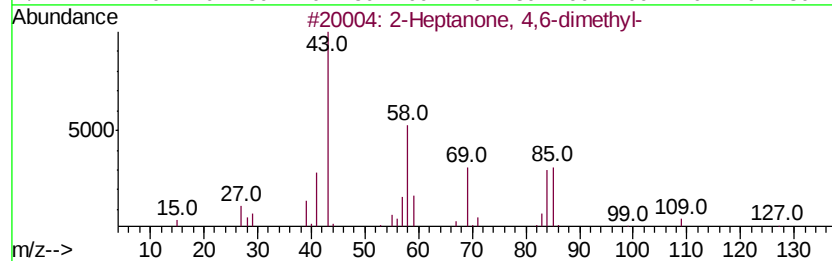
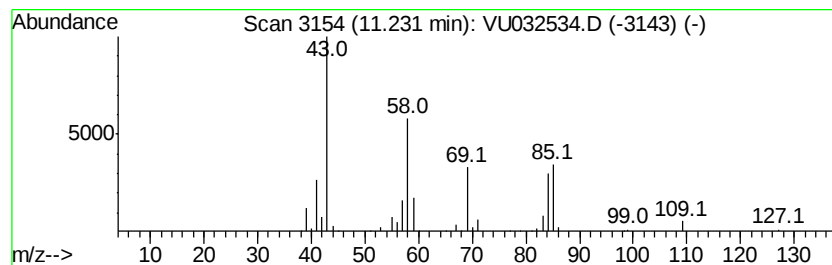
Instrument :  
MSVOA\_U  
ClientSampleId :  
DB8J8DL

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM060619WMA.M  
Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 6 2-Heptanone, 4,6-dimethyl- Concentration Rank 8

| R.T.      | EstConc                    | Area   | Relative to ISTD       | R.T.        |      |
|-----------|----------------------------|--------|------------------------|-------------|------|
| 11.23     | 3.00 ug/L                  | 133825 | 1,4-Dichlorobenzene-d4 | 11.48       |      |
| Hit# of 5 | Tentative ID               | MW     | MolForm                | CAS#        | Qual |
| 1         | 2-Heptanone, 4,6-dimethyl- | 142    | C9H18O                 | 019549-80-5 | 90   |
| 2         | 2-Hexanone, 5-methyl-      | 114    | C7H14O                 | 000110-12-3 | 50   |
| 3         | 2-Hexanone, 4-methyl-      | 114    | C7H14O                 | 000105-42-0 | 50   |
| 4         | 1-Octene, 4-methyl-        | 126    | C9H18                  | 013151-12-7 | 43   |
| 5         | 2-Hexanone, 4-methyl-      | 114    | C7H14O                 | 000105-42-0 | 38   |





Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU060719\  
Data File : VU032534.D  
Acq On : 07 Jun 2019 11:32  
Operator : JC/SP  
Sample : K3215-13DL 20X  
Misc : 5.0mL/MSVOA U/WATER  
ALS Vial : 6 Sample Multiplier: 1

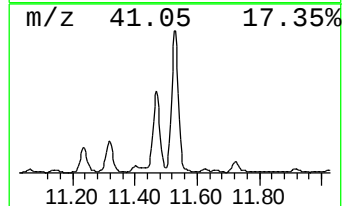
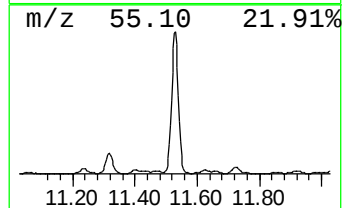
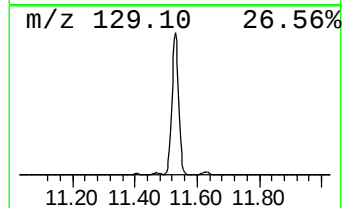
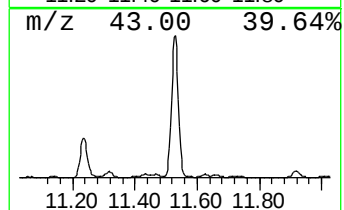
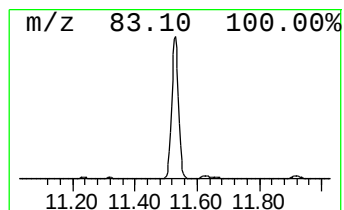
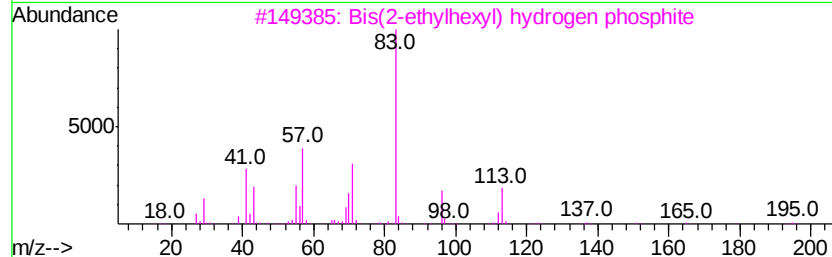
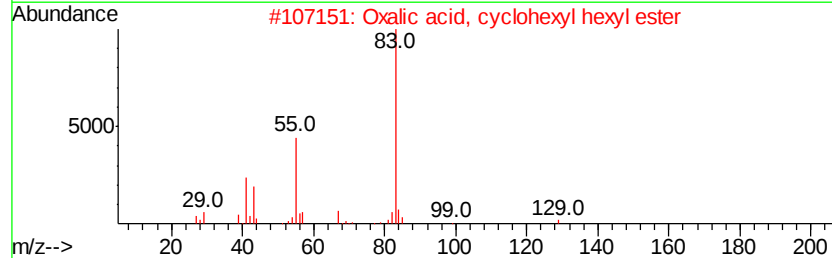
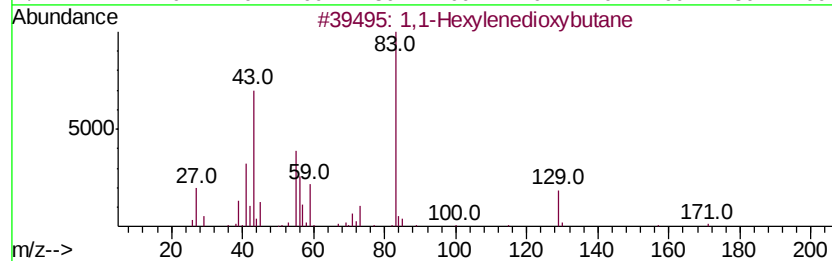
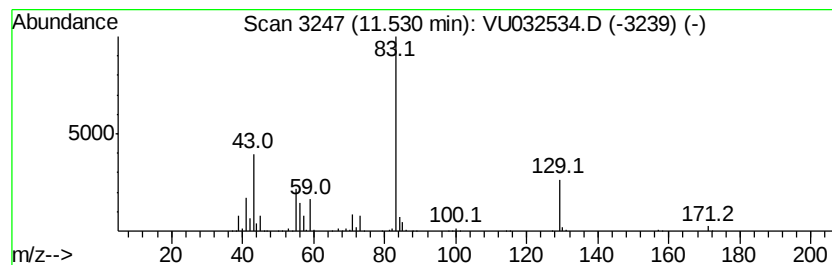
Instrument :  
MSVOA\_U  
ClientSampleId :  
DB8J8DL

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM060619WMA.M  
Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 8 1,1-Hexylenedioxybutane Concentration Rank 2

| R.T.    | EstConc    | Area                                 | Relative to ISTD       | R.T.      |              |      |
|---------|------------|--------------------------------------|------------------------|-----------|--------------|------|
| 11.53   | 19.10 ug/L | 850683                               | 1,4-Dichlorobenzene-d4 | 11.48     |              |      |
| Hit# of | 5          | Tentative ID                         | MW                     | MolForm   | CAS#         | Qual |
| 1       |            | 1,1-Hexylenedioxybutane              | 172                    | C10H20O2  | 1000249-77-4 | 83   |
| 2       |            | Oxalic acid, cyclohexyl hexyl ester  | 256                    | C14H24O4  | 1000309-30-8 | 50   |
| 3       |            | Bis(2-ethylhexyl) hydrogen phosph... | 306                    | C16H35O3P | 003658-48-8  | 40   |
| 4       |            | Pentanoic acid, 2,4-dimethyl-4-n...  | 189                    | C8H15NO4  | 005762-40-3  | 38   |
| 5       |            | 5-Cyano-1,2,3-thiadiazole            | 111                    | C3HN3S    | 057352-02-0  | 36   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU060719\  
Data File : VU032534.D  
Acq On : 07 Jun 2019 11:32  
Operator : JC/SP  
Sample : K3215-13DL 20X  
Misc : 5.0mL/MSVOA U/WATER  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
DB8J8DL

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM060619WMA.M  
Quant Title : VOC Analysis

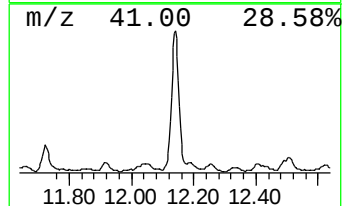
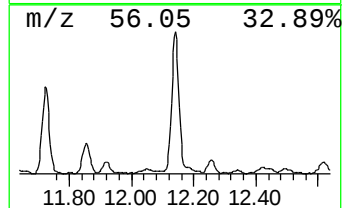
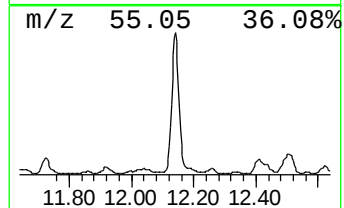
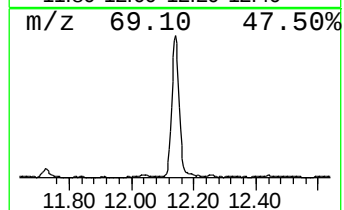
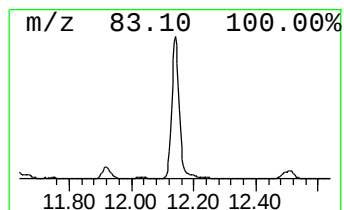
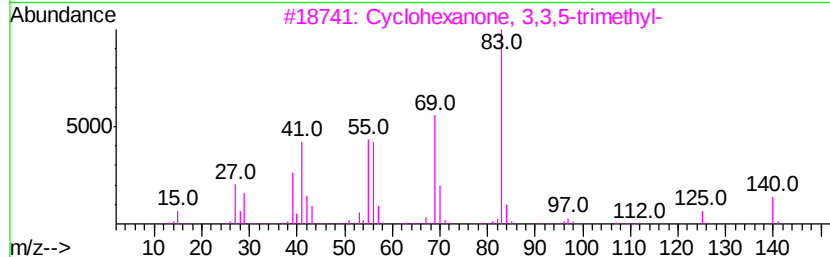
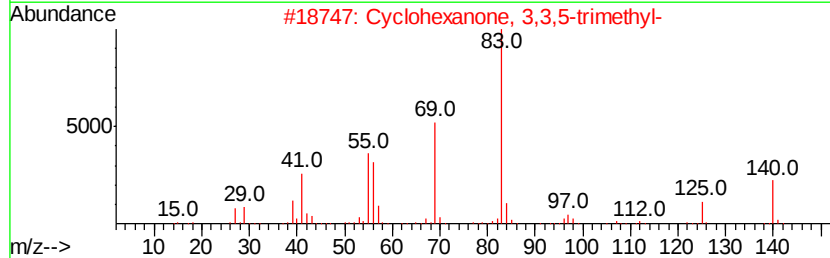
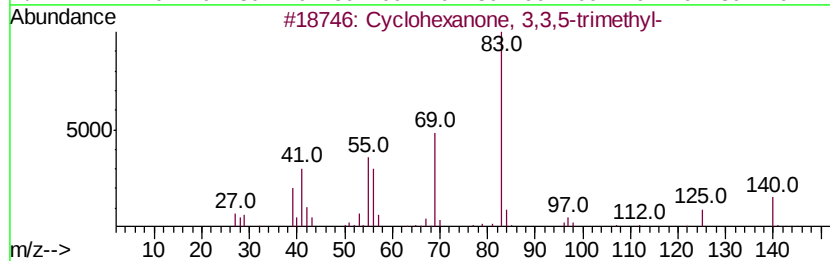
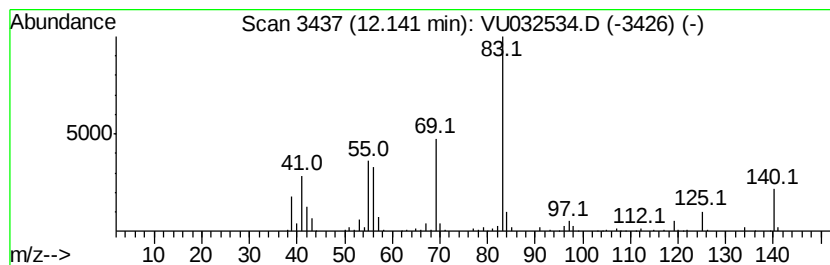
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 9 Cyclohexanone, 3,3,5-trimet... Concentration Rank 6

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 12.14 | 7.15 ug/L | 318612 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# | of | Tentative ID                    | MW  | MolForm | CAS#        | Qual |
|------|----|---------------------------------|-----|---------|-------------|------|
| 1    | 5  | Cyclohexanone, 3,3,5-trimethyl- | 140 | C9H16O  | 000873-94-9 | 97   |
| 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    |    | Cyclohexane, butyl-             | 140 | C10H20  | 001678-93-9 | 64   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU060719\  
Data File : VU032534.D  
Acq On : 07 Jun 2019 11:32  
Operator : JC/SP  
Sample : K3215-13DL 20X  
Misc : 5.0mL/MSVOA U/WATER  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
DB8J8DL

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM060619WMA.M  
Quant Title : VOC Analysis

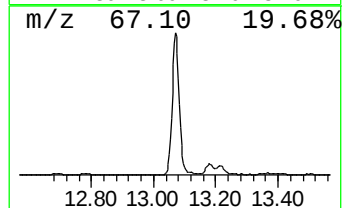
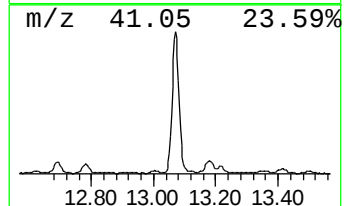
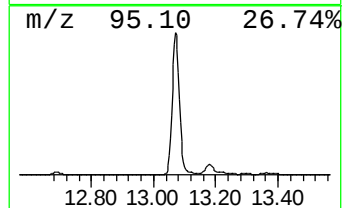
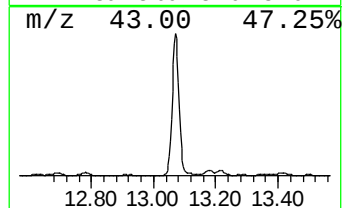
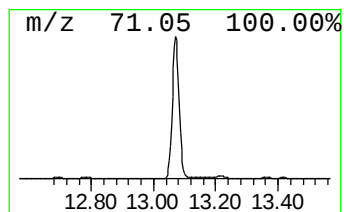
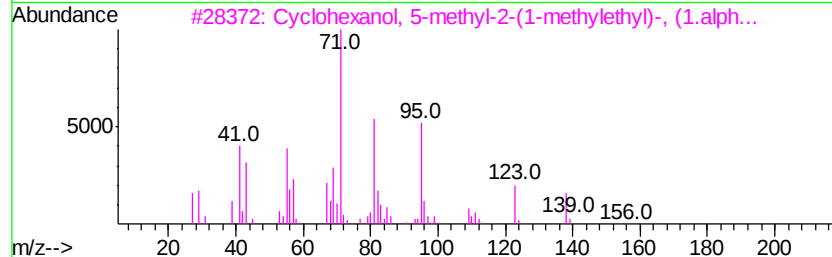
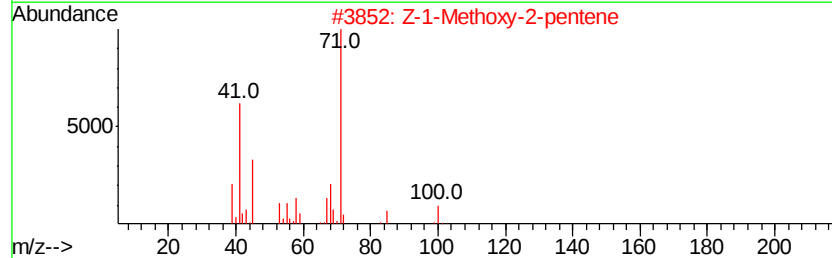
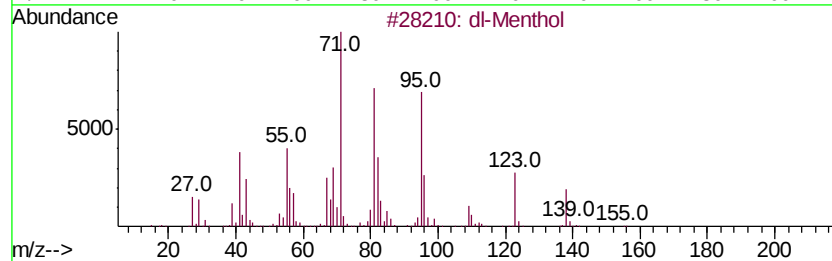
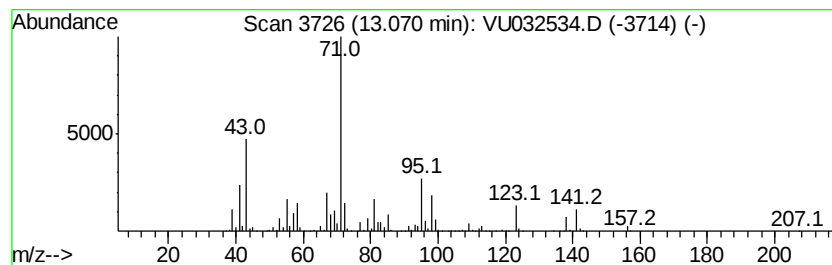
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 10 dl-Menthol Concentration Rank 1

| R.T.  | EstConc    | Area    | Relative to ISTD       | R.T.  |
|-------|------------|---------|------------------------|-------|
| 13.07 | 32.76 ug/L | 1458970 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|---------|--------------|------|
| 1    |    |   | dl-Menthol                          | 156 | C10H20O | 000089-78-1  | 64   |
| 2    |    |   | Z-1-Methoxy-2-pentene               | 100 | C6H12O  | 1000279-59-4 | 47   |
| 3    |    |   | Cyclohexanol, 5-methyl-2-(1-meth... | 156 | C10H20O | 000490-99-3  | 45   |
| 4    |    |   | 2-Nonen-1-ol, 2-methyl-             | 156 | C10H20O | 091008-40-1  | 43   |
| 5    |    |   | Cyclohexanol, 1-methyl-4-(1-meth... | 156 | C10H20O | 003901-93-7  | 43   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU060719\  
Data File : VU032534.D  
Acq On : 07 Jun 2019 11:32  
Operator : JC/SP  
Sample : K3215-13DL 20X  
Misc : 5.0mL/MSVOA U/WATER  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
DB8J8DL

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM060619WMA.M  
Quant Title : VOC Analysis

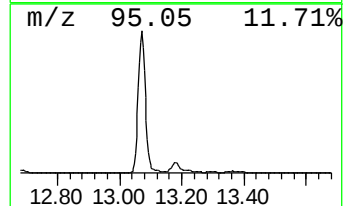
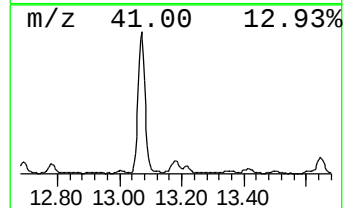
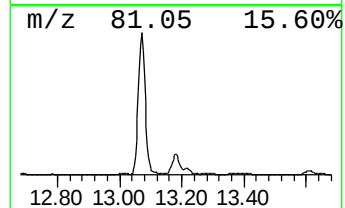
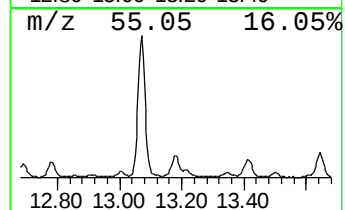
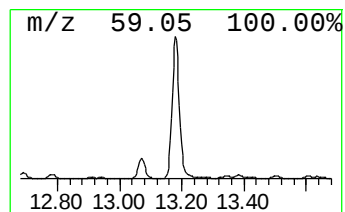
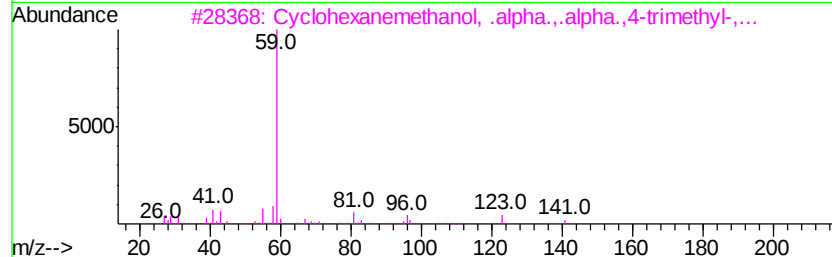
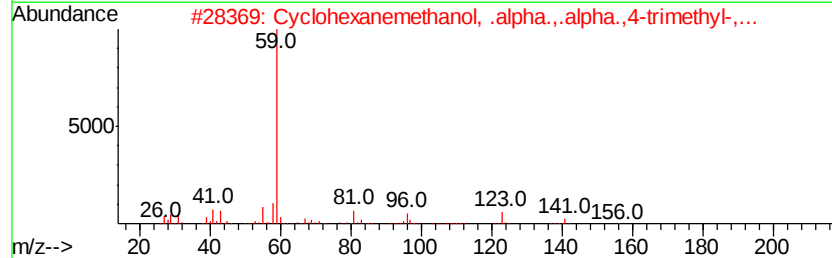
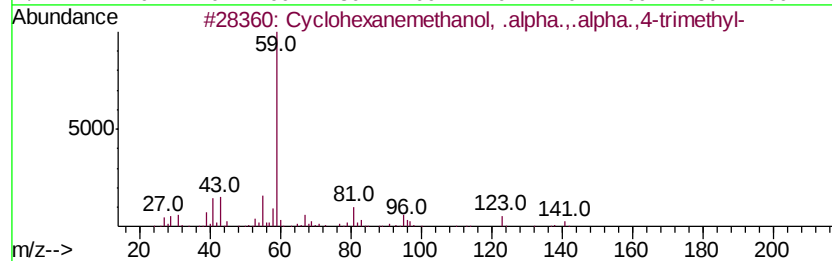
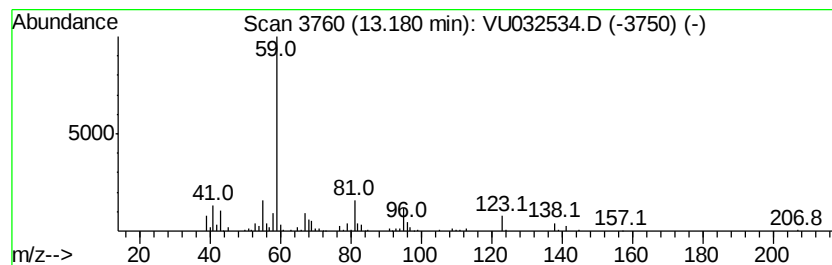
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 11 Cyclohexanemethanol, .alpha... Concentration Rank 9

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 13.18 | 2.97 ug/L | 132327 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Cyclohexanemethanol, .alpha...al... | 156 | C10H20O | 000498-81-7 | 78   |
| 2    |    | Cyclohexanemethanol, .alpha...al... | 156 | C10H20O | 005114-00-1 | 59   |
| 3    |    | Cyclohexanemethanol, .alpha...al... | 156 | C10H20O | 007322-63-6 | 59   |
| 4    |    | 2,4-Dimethyl-4-penten-2-ol          | 114 | C7H14O  | 019781-53-4 | 50   |
| 5    |    | 2-Dodecanol, 2-methyl-              | 200 | C13H28O | 001653-37-8 | 43   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_U\DATA\VU060719\  
Data File : VU032534.D  
Acq On : 07 Jun 2019 11:32  
Operator : JC/SP  
Sample : K3215-13DL 20X  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
DB8J8DL

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM060619WMA.M  
Quant Title : VOC Analysis

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

| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
|                      |       |         |       |          | #                     | RT    | Resp    | Conc |
| Propanal, 2-methyl-  | 3.18  | 2.8     | ug/L  | 27076    | 1                     | 5.88  | 491175  | 50.0 |
| Butanal              | 3.98  | 14.8    | ug/L  | 145522   | 1                     | 5.88  | 491175  | 50.0 |
| Benzene, 1,2,3-tr... | 10.78 | 2.6     | ug/L  | 115930   | 3                     | 11.48 | 2226910 | 50.0 |
| 4-Heptanone, 2,6-... | 10.91 | 10.3    | ug/L  | 460378   | 3                     | 11.48 | 2226910 | 50.0 |
| 2-Heptanone, 4,6-... | 11.23 | 3.0     | ug/L  | 133825   | 3                     | 11.48 | 2226910 | 50.0 |
| Cyclohexene, 1-me... | 11.32 | 5.3     | ug/L  | 234037   | 3                     | 11.48 | 2226910 | 50.0 |
| 1,1-Hexylenedioxy... | 11.53 | 19.1    | ug/L  | 850683   | 3                     | 11.48 | 2226910 | 50.0 |
| Cyclohexanone, 3,... | 12.14 | 7.2     | ug/L  | 318612   | 3                     | 11.48 | 2226910 | 50.0 |
| d1-Menthol           | 13.07 | 32.8    | ug/L  | 1458970  | 3                     | 11.48 | 2226910 | 50.0 |
| Cyclohexanemethan... | 13.18 | 3.0     | ug/L  | 132327   | 3                     | 11.48 | 2226910 | 50.0 |