

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU061819\  
 Data File : VU032811.D  
 Acq On : 18 Jun 2019 10:11  
 Operator : JC/SP  
 Sample : PB120647TB  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VLEB01

## 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\SOMULM061719WMA.M  
 Title : VOC Analysis

Signal : TIC

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 1.180       | 23            | 28          | 34           | rBV      | 6788           | 6605          | 0.46%           | 0.062%        |
| 2         | 1.396       | 88            | 95          | 108          | rBV      | 109174         | 109783        | 7.62%           | 1.025%        |
| 3         | 1.675       | 174           | 182         | 195          | rVB      | 87440          | 105946        | 7.36%           | 0.989%        |
| 4         | 2.267       | 355           | 366         | 377          | rBV      | 183738         | 276230        | 19.18%          | 2.580%        |
| 5         | 2.424       | 411           | 415         | 417          | rBV2     | 325            | 296           | 0.02%           | 0.003%        |
| 6         | 2.617       | 470           | 475         | 478          | rBV2     | 754            | 661           | 0.05%           | 0.006%        |
| 7         | 2.695       | 488           | 499         | 512          | rBV      | 26864          | 46962         | 3.26%           | 0.439%        |
| 8         | 2.865       | 548           | 552         | 557          | rBV2     | 287            | 223           | 0.02%           | 0.002%        |
| 9         | 2.978       | 581           | 587         | 591          | rBV3     | 465            | 543           | 0.04%           | 0.005%        |
| 10        | 3.010       | 591           | 597         | 601          | rVV4     | 449            | 508           | 0.04%           | 0.005%        |
| 11        | 3.032       | 601           | 604         | 609          | rVV3     | 233            | 247           | 0.02%           | 0.002%        |
| 12        | 3.109       | 624           | 628         | 632          | rVB4     | 286            | 241           | 0.02%           | 0.002%        |
| 13        | 3.138       | 632           | 637         | 642          | rBV3     | 366            | 466           | 0.03%           | 0.004%        |
| 14        | 3.241       | 664           | 669         | 674          | rBV3     | 319            | 442           | 0.03%           | 0.004%        |
| 15        | 3.277       | 677           | 680         | 683          | rBV3     | 409            | 315           | 0.02%           | 0.003%        |
| 16        | 3.328       | 693           | 696         | 701          | rVB2     | 451            | 372           | 0.03%           | 0.003%        |
| 17        | 3.373       | 705           | 710         | 713          | rBV3     | 424            | 354           | 0.02%           | 0.003%        |
| 18        | 3.415       | 719           | 723         | 725          | rBV2     | 454            | 362           | 0.03%           | 0.003%        |
| 19        | 3.521       | 753           | 756         | 761          | rVB2     | 403            | 427           | 0.03%           | 0.004%        |
| 20        | 3.691       | 807           | 809         | 814          | rVB      | 573            | 445           | 0.03%           | 0.004%        |
| 21        | 3.723       | 814           | 819         | 820          | rBV3     | 468            | 411           | 0.03%           | 0.004%        |
| 22        | 3.756       | 826           | 829         | 831          | rBV2     | 359            | 226           | 0.02%           | 0.002%        |
| 23        | 3.794       | 838           | 841         | 846          | rVB2     | 343            | 280           | 0.02%           | 0.003%        |
| 24        | 3.820       | 846           | 849         | 851          | rBV3     | 361            | 263           | 0.02%           | 0.002%        |
| 25        | 3.900       | 872           | 874         | 878          | rVB2     | 349            | 230           | 0.02%           | 0.002%        |
| 26        | 3.952       | 886           | 890         | 894          | rBV2     | 378            | 272           | 0.02%           | 0.003%        |
| 27        | 3.987       | 898           | 901         | 904          | rBV2     | 498            | 482           | 0.03%           | 0.005%        |
| 28        | 4.048       | 918           | 920         | 924          | rBV2     | 290            | 263           | 0.02%           | 0.002%        |
| 29        | 4.164       | 944           | 956         | 986          | rBV      | 81485          | 210974        | 14.65%          | 1.970%        |
| 30        | 4.450       | 1039          | 1045        | 1048         | rBV3     | 382            | 330           | 0.02%           | 0.003%        |
| 31        | 4.482       | 1053          | 1055        | 1059         | rVV      | 367            | 280           | 0.02%           | 0.003%        |
| 32        | 4.637       | 1084          | 1103        | 1131         | rBV2     | 142891         | 338849        | 23.53%          | 3.165%        |
| 33        | 4.762       | 1140          | 1142        | 1147         | rVB2     | 382            | 286           | 0.02%           | 0.003%        |
| 34        | 4.862       | 1167          | 1173        | 1174         | rBV3     | 373            | 357           | 0.02%           | 0.003%        |

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 Sampling : 1  
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 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\SOMULM061719WMA.M  
 Title : VOC Analysis

|    |       |      |      |      |      |        |         |         |         |
|----|-------|------|------|------|------|--------|---------|---------|---------|
| 35 | 4.878 | 1174 | 1178 | 1181 | rVV4 | 397    | 450     | 0.03%   | 0.004%  |
| 36 | 4.920 | 1186 | 1191 | 1193 | rVV2 | 324    | 297     | 0.02%   | 0.003%  |
| 37 | 4.948 | 1197 | 1200 | 1205 | rVV2 | 324    | 294     | 0.02%   | 0.003%  |
| 38 | 4.974 | 1205 | 1208 | 1210 | rVV2 | 387    | 223     | 0.02%   | 0.002%  |
| 39 | 5.013 | 1217 | 1220 | 1225 | rBV2 | 412    | 345     | 0.02%   | 0.003%  |
| 40 | 5.093 | 1243 | 1245 | 1248 | rVV3 | 342    | 221     | 0.02%   | 0.002%  |
| 41 | 5.331 | 1296 | 1319 | 1345 | rBV2 | 285618 | 847872  | 58.88%  | 7.919%  |
| 42 | 5.473 | 1358 | 1363 | 1368 | rVB5 | 503    | 475     | 0.03%   | 0.004%  |
| 43 | 5.550 | 1375 | 1387 | 1398 | rBV2 | 5709   | 12555   | 0.87%   | 0.117%  |
| 44 | 5.643 | 1411 | 1416 | 1418 | rBV  | 496    | 446     | 0.03%   | 0.004%  |
| 45 | 5.778 | 1455 | 1458 | 1459 | rBV2 | 401    | 222     | 0.02%   | 0.002%  |
| 46 | 5.878 | 1476 | 1489 | 1511 | rBV  | 284979 | 554386  | 38.50%  | 5.178%  |
| 47 | 6.138 | 1567 | 1570 | 1573 | rBV2 | 380    | 239     | 0.02%   | 0.002%  |
| 48 | 6.170 | 1573 | 1580 | 1586 | rVV7 | 1229   | 1934    | 0.13%   | 0.018%  |
| 49 | 6.321 | 1609 | 1627 | 1650 | rBV  | 193278 | 387402  | 26.90%  | 3.618%  |
| 50 | 6.421 | 1650 | 1658 | 1670 | rBV3 | 5330   | 10604   | 0.74%   | 0.099%  |
| 51 | 6.534 | 1686 | 1693 | 1698 | rBV2 | 2444   | 3807    | 0.26%   | 0.036%  |
| 52 | 6.572 | 1700 | 1705 | 1712 | rVV  | 4195   | 6317    | 0.44%   | 0.059%  |
| 53 | 6.698 | 1731 | 1744 | 1779 | rBV  | 815901 | 1439980 | 100.00% | 13.448% |
| 54 | 7.032 | 1846 | 1848 | 1850 | rBV3 | 513    | 287     | 0.02%   | 0.003%  |
| 55 | 7.222 | 1895 | 1907 | 1930 | rBV  | 118455 | 210200  | 14.60%  | 1.963%  |
| 56 | 7.415 | 1952 | 1967 | 1994 | rBV  | 140207 | 244408  | 16.97%  | 2.283%  |
| 57 | 7.559 | 1998 | 2012 | 2033 | rBV  | 388756 | 686218  | 47.65%  | 6.409%  |
| 58 | 7.768 | 2071 | 2077 | 2081 | rBV5 | 971    | 1079    | 0.07%   | 0.010%  |
| 59 | 7.842 | 2089 | 2100 | 2117 | rBV2 | 96603  | 168962  | 11.73%  | 1.578%  |
| 60 | 8.083 | 2170 | 2175 | 2178 | rBV3 | 309    | 283     | 0.02%   | 0.003%  |
| 61 | 8.148 | 2182 | 2195 | 2211 | rVV  | 71482  | 119745  | 8.32%   | 1.118%  |
| 62 | 8.225 | 2211 | 2219 | 2221 | rVV3 | 9479   | 11329   | 0.79%   | 0.106%  |
| 63 | 8.257 | 2222 | 2229 | 2235 | rVV  | 35449  | 57228   | 3.97%   | 0.534%  |
| 64 | 8.305 | 2235 | 2244 | 2265 | rVV  | 277026 | 485900  | 33.74%  | 4.538%  |
| 65 | 8.408 | 2266 | 2276 | 2301 | rVV  | 615064 | 981635  | 68.17%  | 9.168%  |
| 66 | 8.517 | 2302 | 2310 | 2333 | rVB  | 44062  | 76242   | 5.29%   | 0.712%  |
| 67 | 8.681 | 2357 | 2361 | 2363 | rBV2 | 353    | 283     | 0.02%   | 0.003%  |
| 68 | 8.714 | 2369 | 2371 | 2379 | rVB4 | 521    | 500     | 0.03%   | 0.005%  |
| 69 | 8.807 | 2397 | 2400 | 2403 | rVB2 | 336    | 244     | 0.02%   | 0.002%  |
| 70 | 8.845 | 2409 | 2412 | 2415 | rBV  | 459    | 327     | 0.02%   | 0.003%  |
| 71 | 8.897 | 2415 | 2428 | 2455 | rVV  | 398596 | 634956  | 44.09%  | 5.930%  |

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Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VLEB01

## 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\SOMULM061719WMA.M  
 Title : VOC Analysis

|     |        |      |      |      |      |        |        |        |        |
|-----|--------|------|------|------|------|--------|--------|--------|--------|
| 72  | 9.083  | 2470 | 2486 | 2511 | rBV  | 430834 | 719313 | 49.95% | 6.718% |
| 73  | 9.247  | 2535 | 2537 | 2541 | rVV2 | 402    | 345    | 0.02%  | 0.003% |
| 74  | 9.270  | 2543 | 2544 | 2550 | rVB2 | 366    | 228    | 0.02%  | 0.002% |
| 75  | 9.312  | 2555 | 2557 | 2562 | rBV  | 227    | 218    | 0.02%  | 0.002% |
| 76  | 9.334  | 2562 | 2564 | 2566 | rBV3 | 424    | 222    | 0.02%  | 0.002% |
| 77  | 9.601  | 2638 | 2647 | 2660 | rVV2 | 5822   | 9850   | 0.68%  | 0.092% |
| 78  | 9.675  | 2666 | 2670 | 2671 | rBV  | 328    | 228    | 0.02%  | 0.002% |
| 79  | 9.685  | 2671 | 2673 | 2678 | rVV2 | 474    | 329    | 0.02%  | 0.003% |
| 80  | 9.762  | 2682 | 2697 | 2718 | rVV  | 26809  | 45576  | 3.17%  | 0.426% |
| 81  | 10.038 | 2781 | 2783 | 2790 | rVV3 | 396    | 370    | 0.03%  | 0.003% |
| 82  | 10.167 | 2817 | 2823 | 2825 | rBV3 | 699    | 693    | 0.05%  | 0.006% |
| 83  | 10.244 | 2843 | 2847 | 2850 | rVV3 | 278    | 254    | 0.02%  | 0.002% |
| 84  | 10.427 | 2891 | 2904 | 2924 | rVV  | 284394 | 460309 | 31.97% | 4.299% |
| 85  | 10.662 | 2975 | 2977 | 2980 | rVB  | 376    | 226    | 0.02%  | 0.002% |
| 86  | 10.768 | 3001 | 3010 | 3023 | rVB2 | 6822   | 9781   | 0.68%  | 0.091% |
| 87  | 10.906 | 3047 | 3053 | 3058 | rVB3 | 333    | 484    | 0.03%  | 0.005% |
| 88  | 11.054 | 3096 | 3099 | 3102 | rBV3 | 363    | 227    | 0.02%  | 0.002% |
| 89  | 11.414 | 3206 | 3211 | 3212 | rBV3 | 671    | 531    | 0.04%  | 0.005% |
| 90  | 11.479 | 3216 | 3231 | 3252 | rBV  | 456033 | 728599 | 50.60% | 6.805% |
| 91  | 11.775 | 3320 | 3323 | 3326 | rBV2 | 351    | 289    | 0.02%  | 0.003% |
| 92  | 11.855 | 3335 | 3348 | 3373 | rBV  | 410387 | 673414 | 46.77% | 6.289% |
| 93  | 12.299 | 3483 | 3486 | 3490 | rVB4 | 453    | 384    | 0.03%  | 0.004% |
| 94  | 12.492 | 3543 | 3546 | 3553 | rBV3 | 348    | 333    | 0.02%  | 0.003% |
| 95  | 12.681 | 3603 | 3605 | 3614 | rVB3 | 339    | 281    | 0.02%  | 0.003% |
| 96  | 13.086 | 3726 | 3731 | 3735 | rBV3 | 325    | 336    | 0.02%  | 0.003% |
| 97  | 13.141 | 3741 | 3748 | 3751 | rBV2 | 427    | 600    | 0.04%  | 0.006% |
| 98  | 13.302 | 3796 | 3798 | 3807 | rVB  | 401    | 430    | 0.03%  | 0.004% |
| 99  | 13.813 | 3954 | 3957 | 3961 | rBV2 | 349    | 356    | 0.02%  | 0.003% |
| 100 | 14.874 | 4285 | 4287 | 4290 | rBV2 | 620    | 402    | 0.03%  | 0.004% |

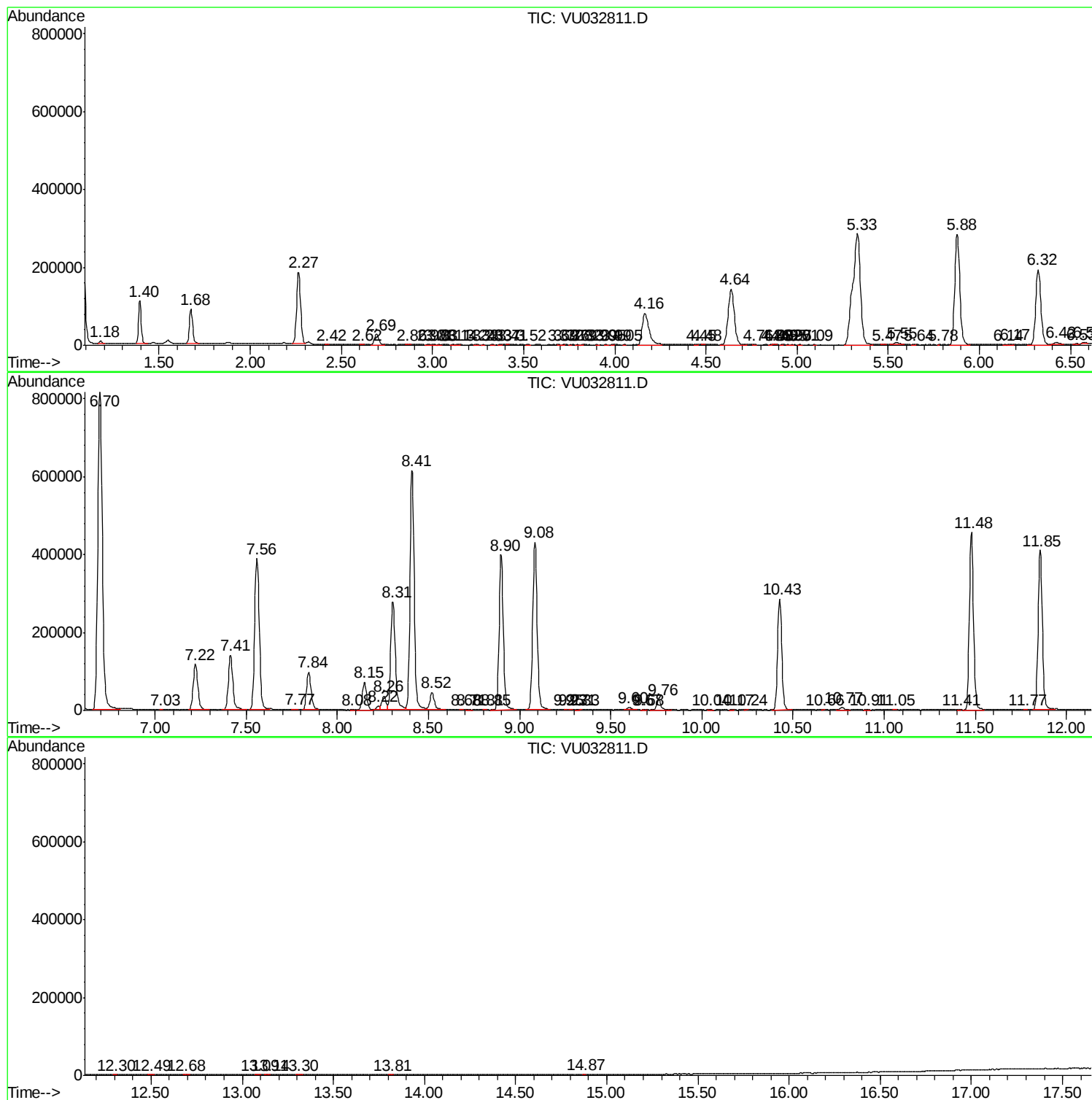
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM061719WMA.M  
Quant Title : VOC Analysis

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



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Instrument :  
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ClientSampleId :  
VLEB01

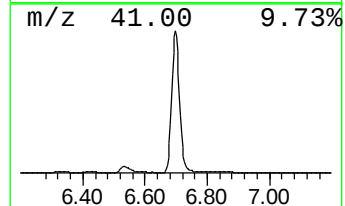
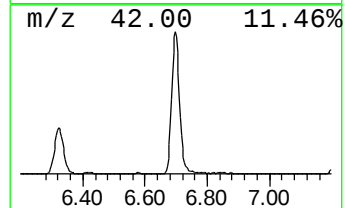
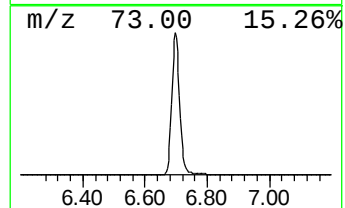
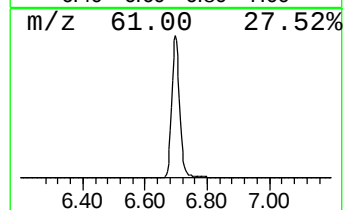
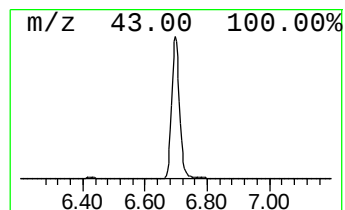
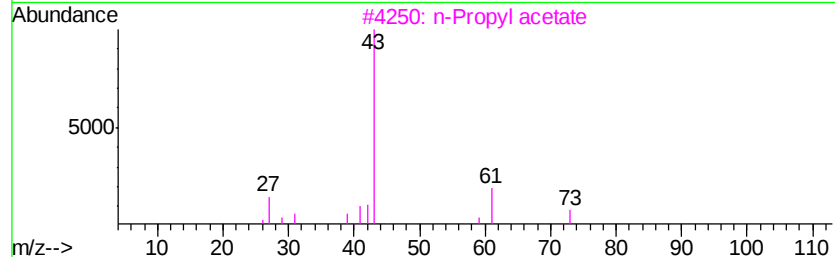
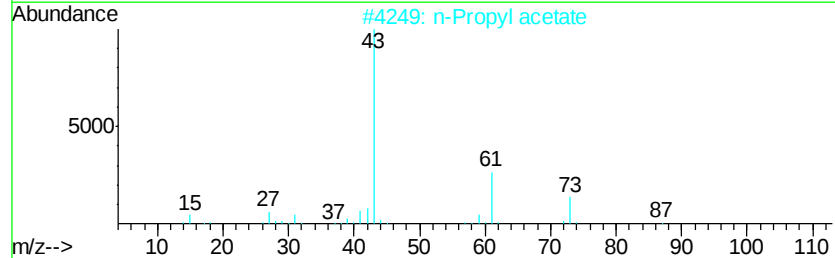
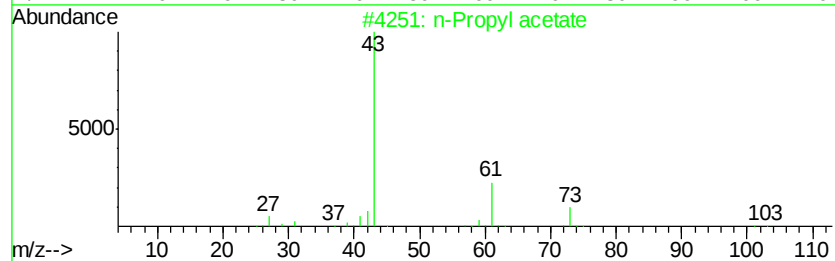
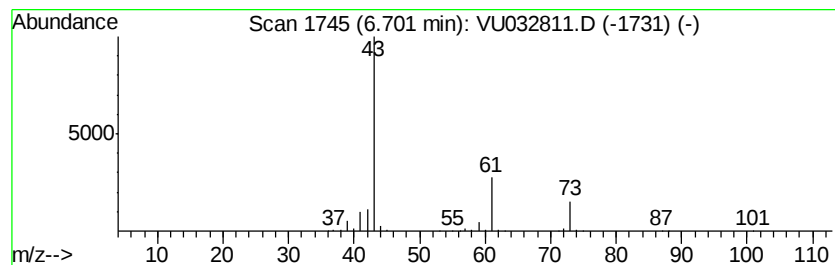
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM061719WMA.M  
Quant Title : VOC Analysis

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

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Peak Number 1 n-Propyl acetate Concentration Rank 1

| R.T. | EstConc     | Area    | Relative to ISTD    | R.T. |
|------|-------------|---------|---------------------|------|
| 6.70 | 129.87 ug/L | 1439980 | 1,4-Difluorobenzene | 5.88 |

| Hit# | of | Tentative ID      | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------|-----|---------|-------------|------|
| 1    | 5  | n-Propyl acetate  | 102 | C5H10O2 | 000109-60-4 | 83   |
| 2    |    | n-Propyl acetate  | 102 | C5H10O2 | 000109-60-4 | 78   |
| 3    |    | n-Propyl acetate  | 102 | C5H10O2 | 000109-60-4 | 59   |
| 4    |    | Isopropyl acetate | 102 | C5H10O2 | 000108-21-4 | 36   |
| 5    |    | Isobutyl acetate  | 116 | C6H12O2 | 000110-19-0 | 9    |



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Quant Title : VOC Analysis

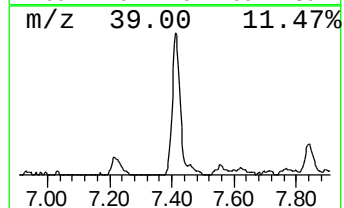
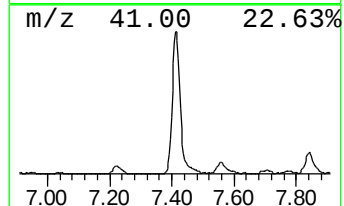
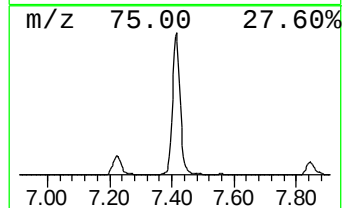
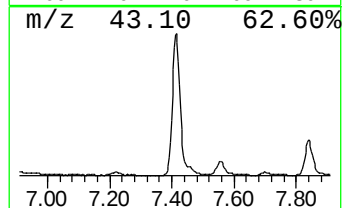
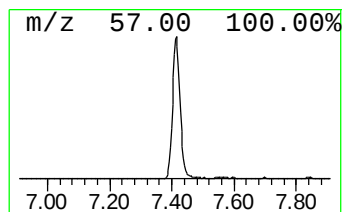
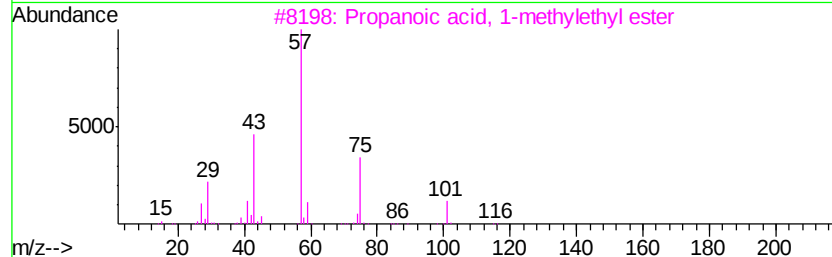
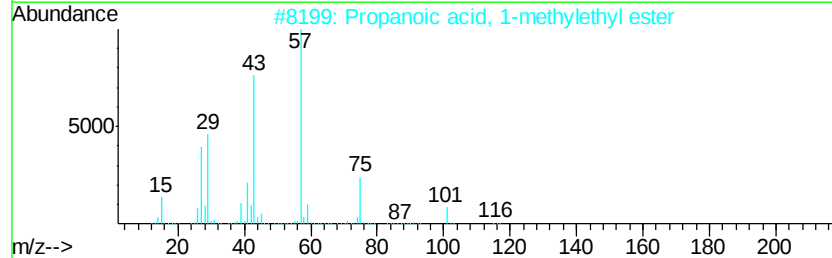
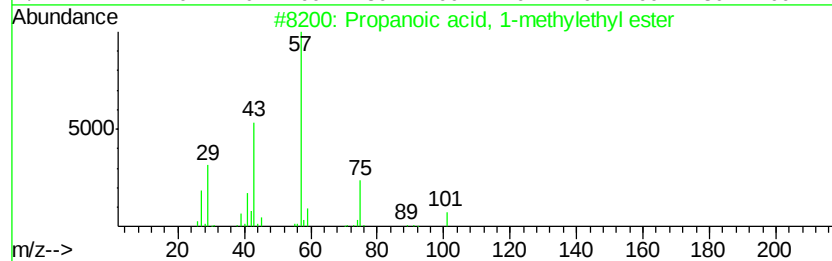
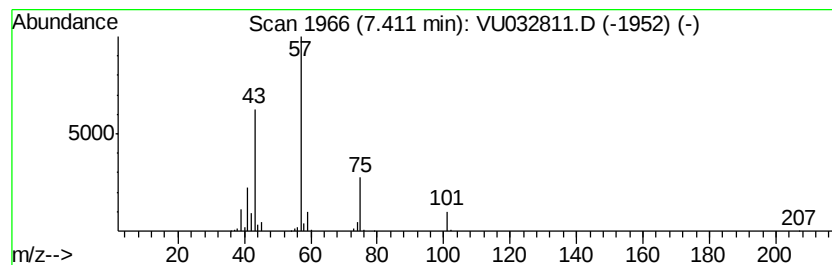
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 3 Propanoic acid, 1-methyleth... Concentration Rank 4

| R.T. | EstConc    | Area   | Relative to ISTD    | R.T. |
|------|------------|--------|---------------------|------|
| 7.41 | 22.04 ug/L | 244408 | 1,4-Difluorobenzene | 5.88 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Propanoic acid, 1-methylethyl ester | 116 | C6H12O2 | 000637-78-5 | 90   |
| 2    |    | Propanoic acid, 1-methylethyl ester | 116 | C6H12O2 | 000637-78-5 | 83   |
| 3    |    | Propanoic acid, 1-methylethyl ester | 116 | C6H12O2 | 000637-78-5 | 64   |
| 4    |    | Propanoic acid, 1-methylethyl ester | 116 | C6H12O2 | 000637-78-5 | 59   |
| 5    |    | Propanoic acid, propyl ester        | 116 | C6H12O2 | 000106-36-5 | 45   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU061819\  
Data File : VU032811.D  
Acq On : 18 Jun 2019 10:11  
Operator : JC/SP  
Sample : PB120647TB  
Misc : 5.0mL/MSVOA U/WATER  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
VLEB01

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM061719WMA.M  
Quant Title : VOC Analysis

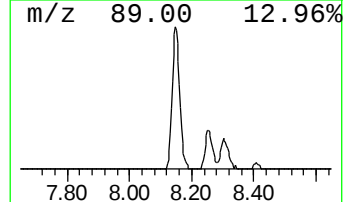
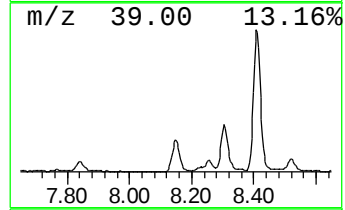
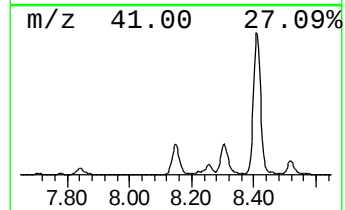
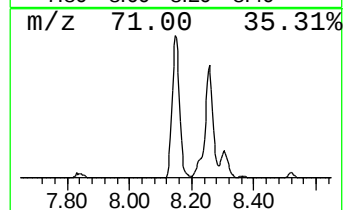
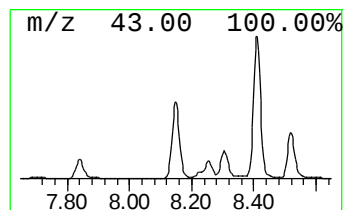
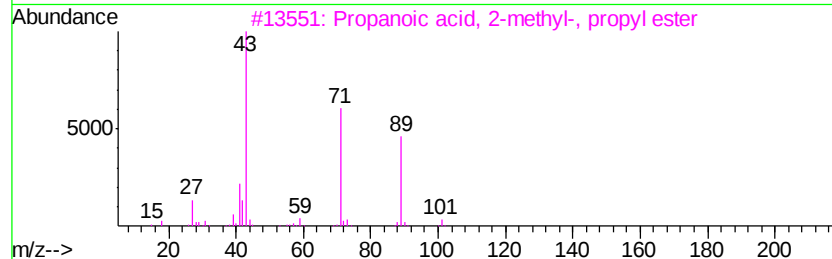
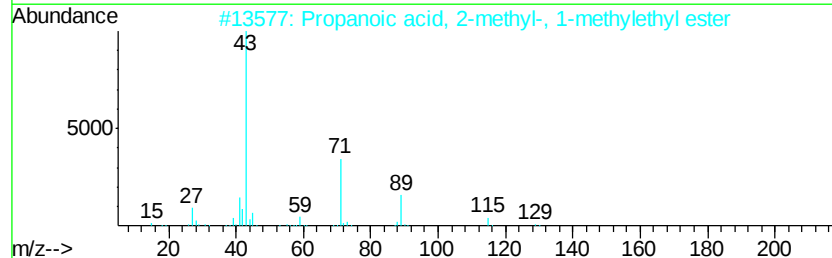
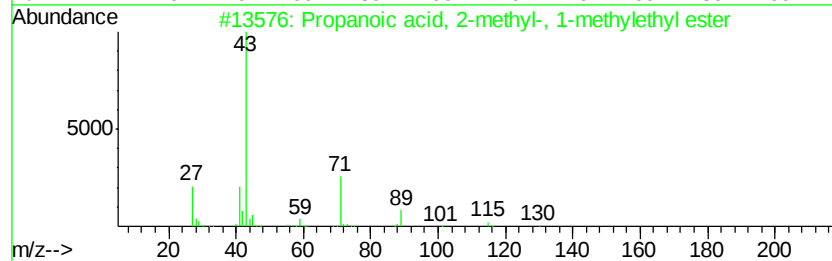
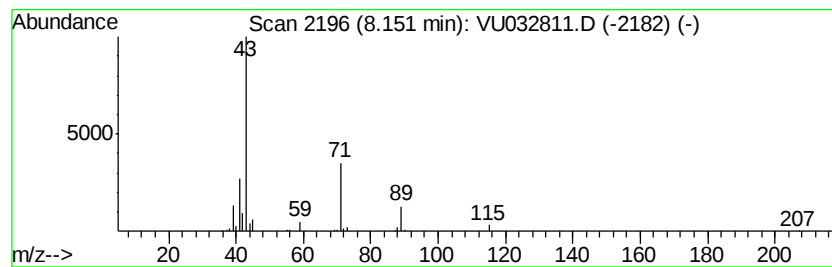
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 Propanoic acid, 2-methyl-, ... Concentration Rank 6

| R.T. | EstConc   | Area   | Relative to ISTD | R.T. |
|------|-----------|--------|------------------|------|
| 8.15 | 8.32 ug/L | 119745 | Chlorobenzene-d5 | 9.08 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Propanoic acid, 2-methyl-, 1-met... | 130 | C7H14O2 | 000617-50-5 | 83   |
| 2    |    | Propanoic acid, 2-methyl-, 1-met... | 130 | C7H14O2 | 000617-50-5 | 83   |
| 3    |    | Propanoic acid, 2-methyl-, propv... | 130 | C7H14O2 | 000644-49-5 | 78   |
| 4    |    | Propanoic acid, 2-methyl-, 1-met... | 130 | C7H14O2 | 000617-50-5 | 72   |
| 5    |    | Propanoic acid, 2-methyl-, 1-met... | 130 | C7H14O2 | 000617-50-5 | 59   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU061819\  
Data File : VU032811.D  
Acq On : 18 Jun 2019 10:11  
Operator : JC/SP  
Sample : PB120647TB  
Misc : 5.0mL/MSVOA U/WATER  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
VLEB01

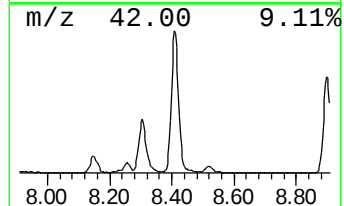
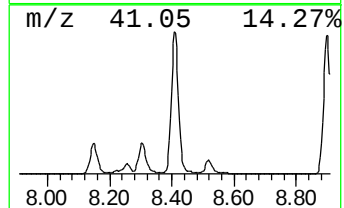
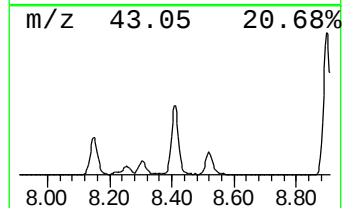
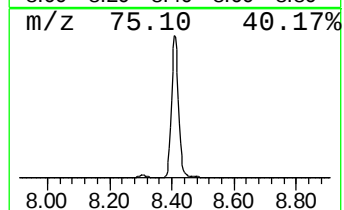
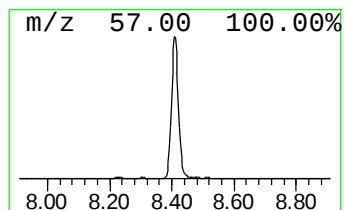
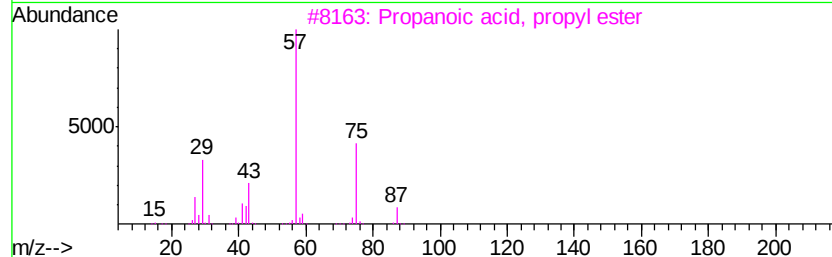
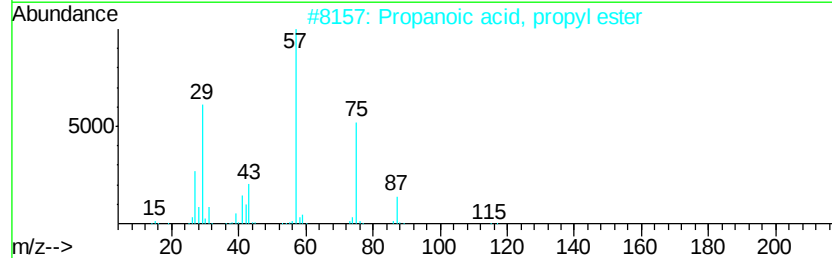
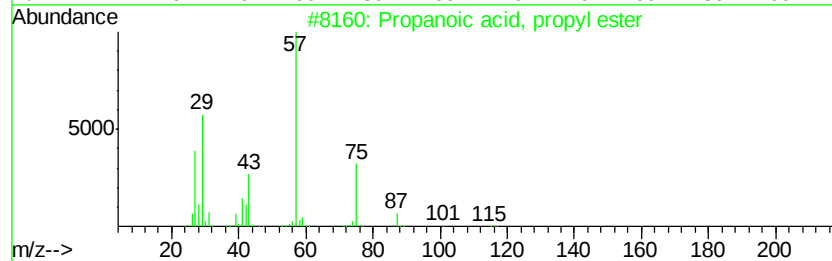
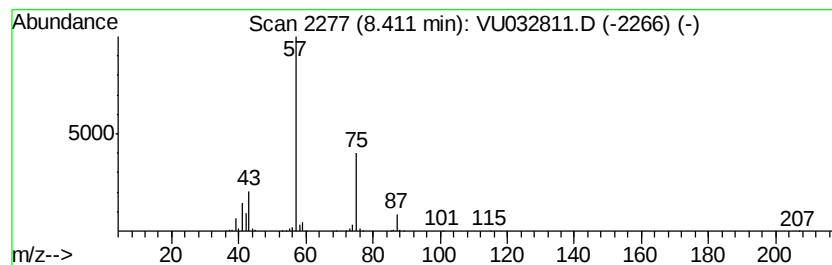
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Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 5 Propanoic acid, propyl ester Concentration Rank 2

| R.T. | EstConc    | Area   | Relative to ISTD | R.T. |
|------|------------|--------|------------------|------|
| 8.41 | 68.23 ug/L | 981635 | Chlorobenzene-d5 | 9.08 |

| Hit# | of | Tentative ID                 | MW  | MolForm | CAS#        | Qual |
|------|----|------------------------------|-----|---------|-------------|------|
| 1    | 5  | Propanoic acid, propyl ester | 116 | C6H12O2 | 000106-36-5 | 83   |
| 2    |    | Propanoic acid, propyl ester | 116 | C6H12O2 | 000106-36-5 | 83   |
| 3    |    | Propanoic acid, propyl ester | 116 | C6H12O2 | 000106-36-5 | 83   |
| 4    |    | Propanoic acid, propyl ester | 116 | C6H12O2 | 000106-36-5 | 78   |
| 5    |    | Propanoic acid, butyl ester  | 130 | C7H14O2 | 000590-01-2 | 38   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU061819\  
Data File : VU032811.D  
Acq On : 18 Jun 2019 10:11  
Operator : JC/SP  
Sample : PB120647TB  
Misc : 5.0mL/MSVOA U/WATER  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
VLEB01

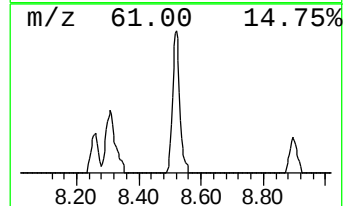
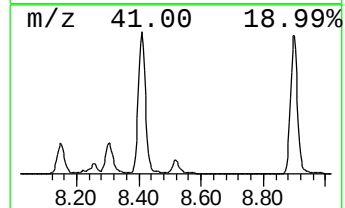
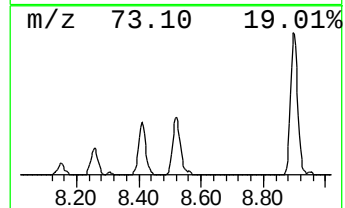
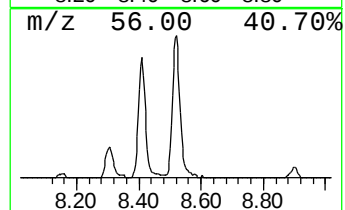
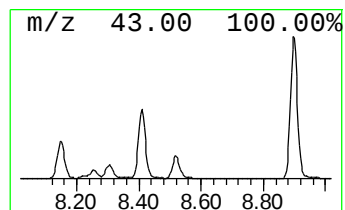
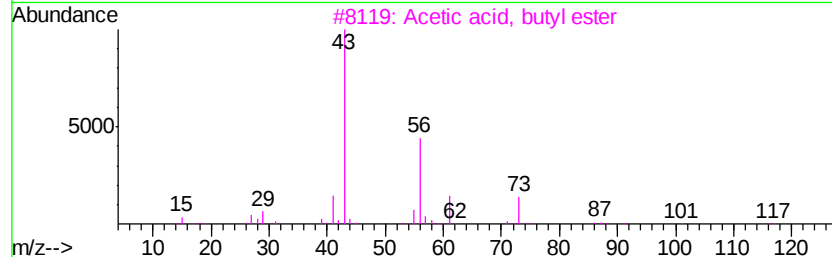
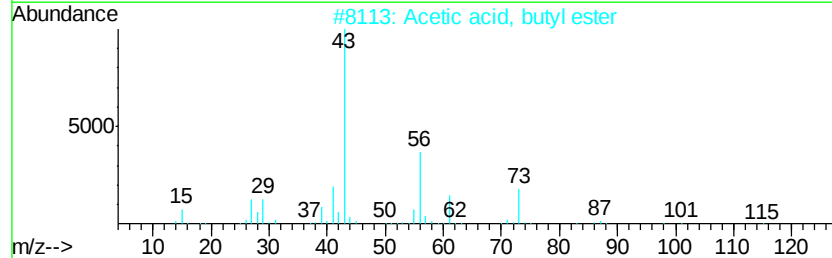
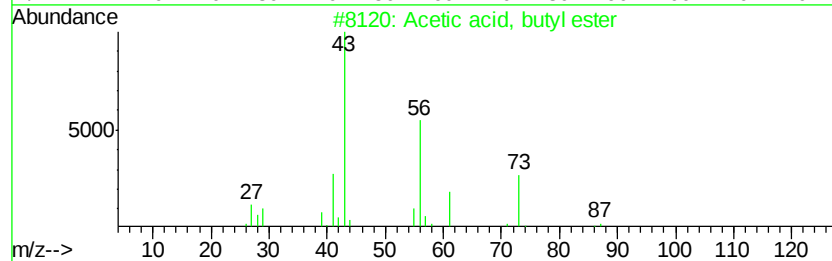
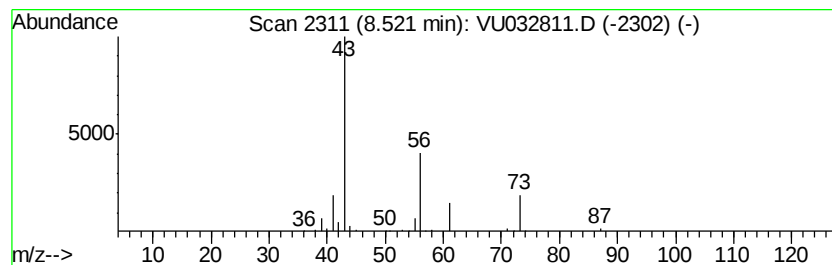
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Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 6 Acetic acid, butyl ester Concentration Rank 7

| R.T. | EstConc   | Area  | Relative to ISTD | R.T. |
|------|-----------|-------|------------------|------|
| 8.52 | 5.30 ug/L | 76242 | Chlorobenzene-d5 | 9.08 |

| Hit# | of | Tentative ID             | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------|-----|---------|-------------|------|
| 1    | 5  | Acetic acid, butyl ester | 116 | C6H12O2 | 000123-86-4 | 83   |
| 2    |    | Acetic acid, butyl ester | 116 | C6H12O2 | 000123-86-4 | 83   |
| 3    |    | Acetic acid, butyl ester | 116 | C6H12O2 | 000123-86-4 | 78   |
| 4    |    | Acetic acid, butyl ester | 116 | C6H12O2 | 000123-86-4 | 72   |
| 5    |    | Isobutylamine            | 73  | C4H11N  | 000078-81-9 | 9    |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU061819\  
Data File : VU032811.D  
Acq On : 18 Jun 2019 10:11  
Operator : JC/SP  
Sample : PB120647TB  
Misc : 5.0mL/MSVOA U/WATER  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
VLEB01

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM061719WMA.M  
Quant Title : VOC Analysis

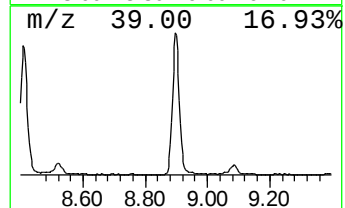
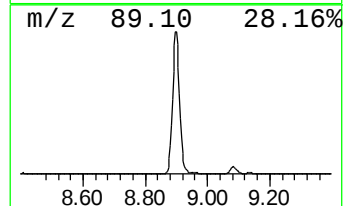
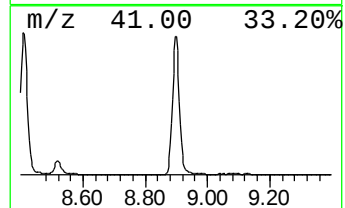
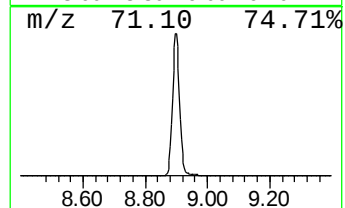
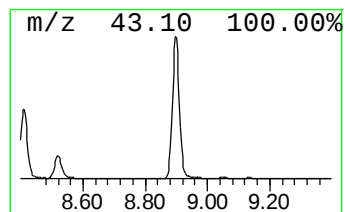
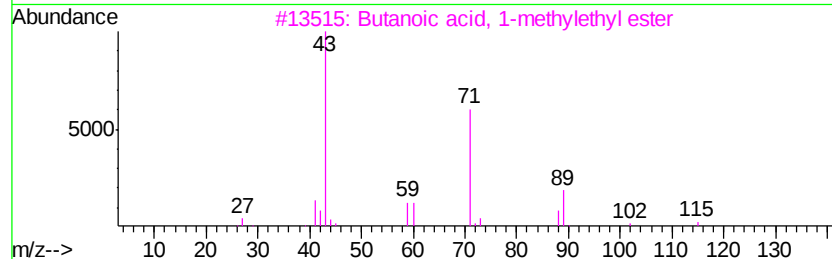
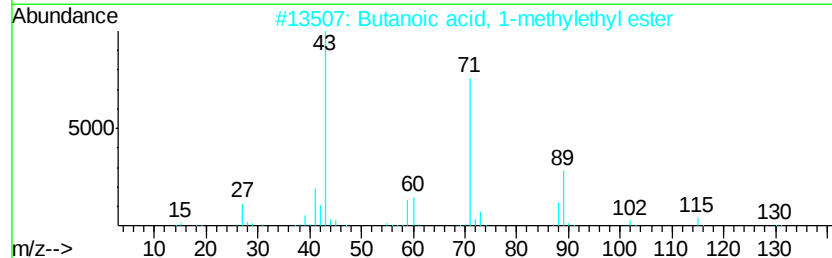
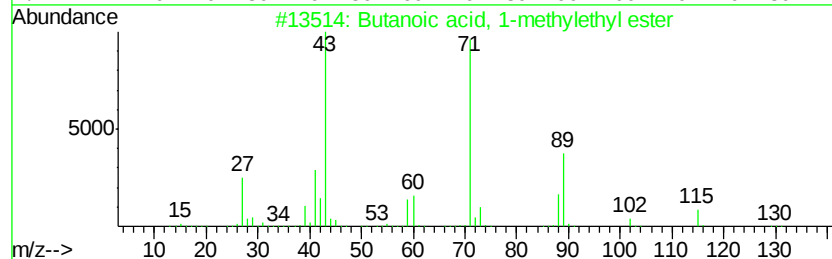
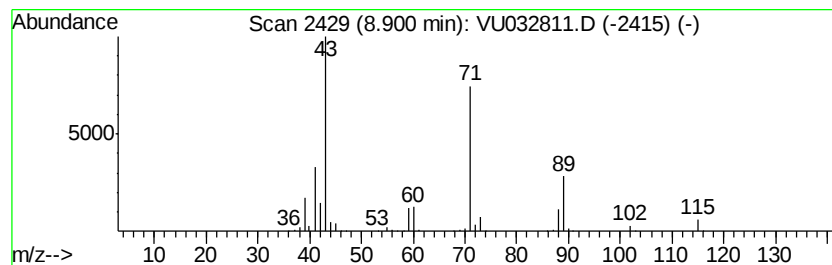
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 7 Butanoic acid, 1-methylethy... Concentration Rank 3

| R.T. | EstConc    | Area   | Relative to ISTD | R.T. |
|------|------------|--------|------------------|------|
| 8.90 | 44.14 ug/L | 634956 | Chlorobenzene-d5 | 9.08 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Butanoic acid, 1-methylethyl ester  | 130 | C7H14O2 | 000638-11-9 | 91   |
| 2    |    | Butanoic acid, 1-methylethyl ester  | 130 | C7H14O2 | 000638-11-9 | 90   |
| 3    |    | Butanoic acid, 1-methylethyl ester  | 130 | C7H14O2 | 000638-11-9 | 83   |
| 4    |    | Propanoic acid, 2-methyl-, propy... | 130 | C7H14O2 | 000644-49-5 | 72   |
| 5    |    | Propanoic acid, 2-methyl-, propy... | 130 | C7H14O2 | 000644-49-5 | 72   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU061819\  
Data File : VU032811.D  
Acq On : 18 Jun 2019 10:11  
Operator : JC/SP  
Sample : PB120647TB  
Misc : 5.0mL/MSVOA U/WATER  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
VLEB01

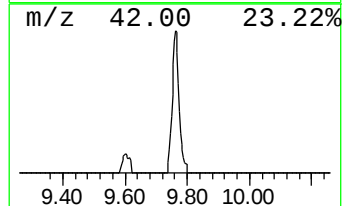
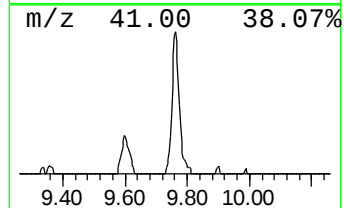
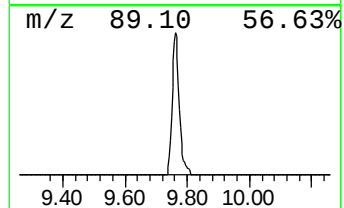
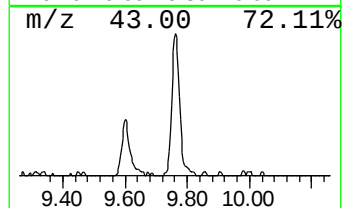
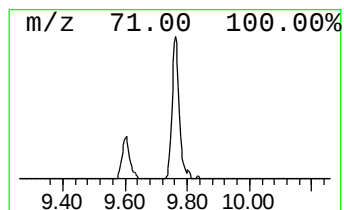
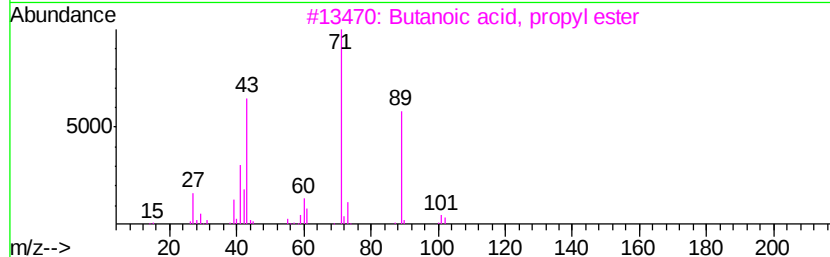
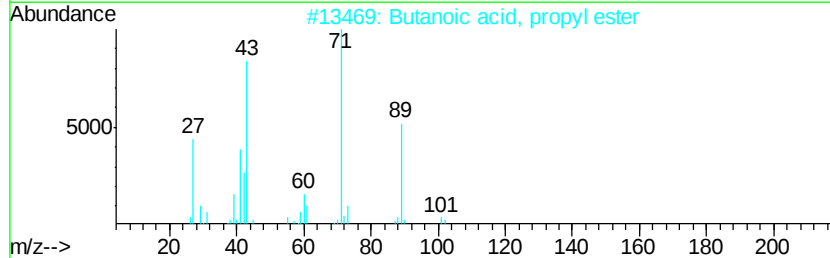
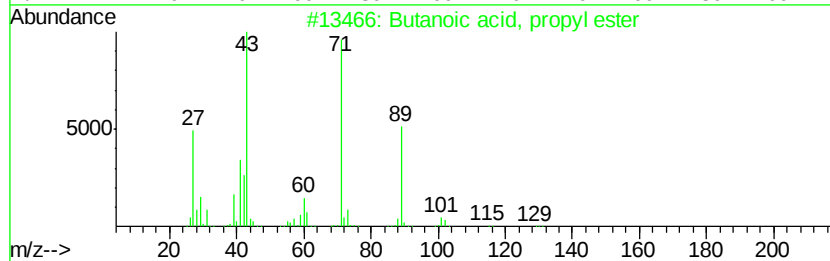
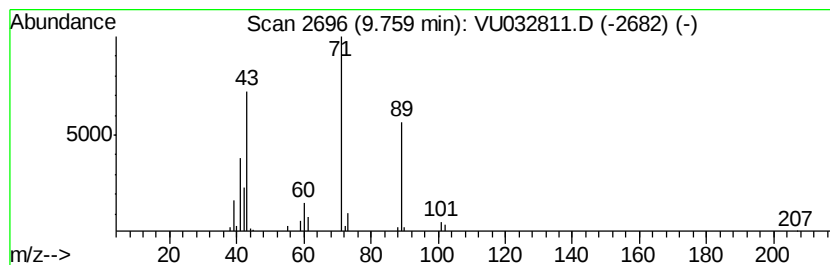
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM061719WMA.M  
Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 8 Butanoic acid, propyl ester Concentration Rank 8

| R.T. | EstConc   | Area  | Relative to ISTD | R.T. |
|------|-----------|-------|------------------|------|
| 9.76 | 3.17 ug/L | 45576 | Chlorobenzene-d5 | 9.08 |

| Hit# | of | Tentative ID                | MW  | MolForm  | CAS#        | Qual |
|------|----|-----------------------------|-----|----------|-------------|------|
| 1    | 5  | Butanoic acid, propyl ester | 130 | C7H14O2  | 000105-66-8 | 90   |
| 2    |    | Butanoic acid, propyl ester | 130 | C7H14O2  | 000105-66-8 | 90   |
| 3    |    | Butanoic acid, propyl ester | 130 | C7H14O2  | 000105-66-8 | 83   |
| 4    |    | Butanoic acid, hexyl ester  | 172 | C10H20O2 | 002639-63-6 | 64   |
| 5    |    | Butanoic acid, hexyl ester  | 172 | C10H20O2 | 002639-63-6 | 64   |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_U\DATA\VU061819\  
Data File : VU032811.D  
Acq On : 18 Jun 2019 10:11  
Operator : JC/SP  
Sample : PB120647TB  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
VLEB01

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM061719WMA.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 |
| n-Propyl acetate     | 6.70 | 129.9   | ug/L  | 1439980  | 1                     | 5.88 | 554386 | 50.0 |
| Propanoic acid, 1... | 7.41 | 22.0    | ug/L  | 244408   | 1                     | 5.88 | 554386 | 50.0 |
| Propanoic acid, 2... | 8.15 | 8.3     | ug/L  | 119745   | 2                     | 9.08 | 719313 | 50.0 |
| Propanoic acid, p... | 8.41 | 68.2    | ug/L  | 981635   | 2                     | 9.08 | 719313 | 50.0 |
| Acetic acid, buty... | 8.52 | 5.3     | ug/L  | 76242    | 2                     | 9.08 | 719313 | 50.0 |
| Butanoic acid, 1-... | 8.90 | 44.1    | ug/L  | 634956   | 2                     | 9.08 | 719313 | 50.0 |
| Butanoic acid, pr... | 9.76 | 3.2     | ug/L  | 45576    | 2                     | 9.08 | 719313 | 50.0 |