

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU072519\  
 Data File : VU033436.D  
 Acq On : 26 Jul 2019 01:40  
 Operator : JC/SP  
 Sample : K3976-12  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 44 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C0CB1

## 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\SOMULM071219WMA.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         | 1.177       | 23            | 27          | 32           | rVB2     | 3012           | 2572          | 0.00%           | 0.001%        |
| 2         | 1.389       | 86            | 93          | 107          | rBV      | 198227         | 206037        | 0.11%           | 0.106%        |
| 3         | 1.540       | 136           | 140         | 150          | rVB      | 18820          | 21540         | 0.01%           | 0.011%        |
| 4         | 1.669       | 172           | 180         | 199          | rVB      | 158105         | 202132        | 0.11%           | 0.104%        |
| 5         | 2.254       | 352           | 362         | 375          | rVB      | 289172         | 446604        | 0.24%           | 0.230%        |
| 6         | 2.431       | 406           | 417         | 435          | rBV      | 22587          | 42436         | 0.02%           | 0.022%        |
| 7         | 2.582       | 461           | 464         | 468          | rVB3     | 366            | 354           | 0.00%           | 0.000%        |
| 8         | 2.608       | 468           | 472         | 474          | rBV3     | 416            | 358           | 0.00%           | 0.000%        |
| 9         | 2.666       | 486           | 490         | 492          | rBV      | 248            | 237           | 0.00%           | 0.000%        |
| 10        | 2.682       | 493           | 495         | 497          | rVV      | 337            | 174           | 0.00%           | 0.000%        |
| 11        | 2.733       | 509           | 511         | 519          | rVB3     | 250            | 238           | 0.00%           | 0.000%        |
| 12        | 2.820       | 524           | 538         | 554          | rVB2     | 14336          | 29812         | 0.02%           | 0.015%        |
| 13        | 2.900       | 560           | 563         | 570          | rVB2     | 282            | 251           | 0.00%           | 0.000%        |
| 14        | 3.080       | 615           | 619         | 622          | rBV3     | 239            | 219           | 0.00%           | 0.000%        |
| 15        | 3.219       | 653           | 662         | 668          | rBV3     | 286            | 482           | 0.00%           | 0.000%        |
| 16        | 3.260       | 672           | 675         | 679          | rBV3     | 278            | 201           | 0.00%           | 0.000%        |
| 17        | 3.450       | 731           | 734         | 737          | rVB2     | 245            | 180           | 0.00%           | 0.000%        |
| 18        | 3.582       | 771           | 775         | 776          | rBV2     | 236            | 188           | 0.00%           | 0.000%        |
| 19        | 3.637       | 786           | 792         | 796          | rVB      | 351            | 388           | 0.00%           | 0.000%        |
| 20        | 3.717       | 812           | 817         | 819          | rBV3     | 302            | 262           | 0.00%           | 0.000%        |
| 21        | 3.849       | 853           | 858         | 863          | rBV3     | 184            | 204           | 0.00%           | 0.000%        |
| 22        | 3.945       | 884           | 888         | 891          | rBV3     | 292            | 186           | 0.00%           | 0.000%        |
| 23        | 3.997       | 902           | 904         | 910          | rVB2     | 272            | 190           | 0.00%           | 0.000%        |
| 24        | 4.151       | 940           | 952         | 961          | rBV3     | 109573         | 282581        | 0.15%           | 0.145%        |
| 25        | 4.366       | 1011          | 1019        | 1037         | rVB      | 5362           | 12712         | 0.01%           | 0.007%        |
| 26        | 4.620       | 1080          | 1098        | 1123         | rBV      | 196588         | 473727        | 0.26%           | 0.244%        |
| 27        | 4.794       | 1149          | 1152        | 1157         | rVB4     | 384            | 359           | 0.00%           | 0.000%        |
| 28        | 4.852       | 1163          | 1170        | 1173         | rBV2     | 921            | 955           | 0.00%           | 0.000%        |
| 29        | 4.948       | 1196          | 1200        | 1201         | rBV      | 365            | 203           | 0.00%           | 0.000%        |
| 30        | 5.109       | 1238          | 1250        | 1265         | rVV4     | 10420          | 24101         | 0.01%           | 0.012%        |
| 31        | 5.180       | 1267          | 1272        | 1274         | rVB2     | 357            | 229           | 0.00%           | 0.000%        |
| 32        | 5.315       | 1290          | 1314        | 1344         | rBV2     | 399425         | 1181172       | 0.64%           | 0.607%        |
| 33        | 5.530       | 1378          | 1381        | 1385         | rBV2     | 316            | 243           | 0.00%           | 0.000%        |
| 34        | 5.649       | 1412          | 1418        | 1419         | rBV3     | 407            | 323           | 0.00%           | 0.000%        |

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 Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM071219WMA.M  
 Title : VOC Analysis

|    |        |      |      |      |      |           |           |         |         |
|----|--------|------|------|------|------|-----------|-----------|---------|---------|
| 35 | 5.710  | 1435 | 1437 | 1441 | rVB3 | 484       | 260       | 0.00%   | 0.000%  |
| 36 | 5.755  | 1448 | 1451 | 1454 | rBV3 | 199       | 177       | 0.00%   | 0.000%  |
| 37 | 5.865  | 1470 | 1485 | 1515 | rBV  | 326934    | 661031    | 0.36%   | 0.340%  |
| 38 | 6.071  | 1545 | 1549 | 1552 | rBV4 | 211       | 174       | 0.00%   | 0.000%  |
| 39 | 6.180  | 1560 | 1583 | 1613 | rBV4 | 102310761 | 185110390 | 100.00% | 95.177% |
| 40 | 6.312  | 1617 | 1624 | 1642 | rVB  | 275871    | 549917    | 0.30%   | 0.283%  |
| 41 | 6.936  | 1816 | 1818 | 1822 | rBV3 | 338       | 269       | 0.00%   | 0.000%  |
| 42 | 7.009  | 1836 | 1841 | 1845 | rVB3 | 568       | 574       | 0.00%   | 0.000%  |
| 43 | 7.058  | 1851 | 1856 | 1858 | rBV2 | 370       | 272       | 0.00%   | 0.000%  |
| 44 | 7.125  | 1874 | 1877 | 1879 | rBV3 | 392       | 217       | 0.00%   | 0.000%  |
| 45 | 7.148  | 1879 | 1884 | 1889 | rBV4 | 337       | 367       | 0.00%   | 0.000%  |
| 46 | 7.209  | 1891 | 1903 | 1922 | rBV  | 143429    | 256823    | 0.14%   | 0.132%  |
| 47 | 7.353  | 1945 | 1948 | 1951 | rVV3 | 310       | 240       | 0.00%   | 0.000%  |
| 48 | 7.379  | 1951 | 1956 | 1960 | rVB5 | 607       | 675       | 0.00%   | 0.000%  |
| 49 | 7.546  | 1995 | 2008 | 2038 | rBV  | 530544    | 941737    | 0.51%   | 0.484%  |
| 50 | 7.833  | 2085 | 2097 | 2118 | rVV  | 101520    | 176629    | 0.10%   | 0.091%  |
| 51 | 7.939  | 2128 | 2130 | 2133 | rVB2 | 953       | 473       | 0.00%   | 0.000%  |
| 52 | 7.997  | 2143 | 2148 | 2154 | rBV3 | 471       | 535       | 0.00%   | 0.000%  |
| 53 | 8.051  | 2155 | 2165 | 2183 | rVB3 | 15416     | 27161     | 0.01%   | 0.014%  |
| 54 | 8.161  | 2194 | 2199 | 2203 | rBV4 | 858       | 984       | 0.00%   | 0.001%  |
| 55 | 8.209  | 2203 | 2214 | 2229 | rVV  | 76891     | 130389    | 0.07%   | 0.067%  |
| 56 | 8.296  | 2230 | 2241 | 2282 | rVV  | 310660    | 570106    | 0.31%   | 0.293%  |
| 57 | 8.556  | 2319 | 2322 | 2325 | rBV2 | 372       | 256       | 0.00%   | 0.000%  |
| 58 | 8.601  | 2332 | 2336 | 2343 | rBV5 | 273       | 360       | 0.00%   | 0.000%  |
| 59 | 8.643  | 2346 | 2349 | 2353 | rBV  | 416       | 337       | 0.00%   | 0.000%  |
| 60 | 8.678  | 2354 | 2360 | 2364 | rVB4 | 488       | 474       | 0.00%   | 0.000%  |
| 61 | 8.826  | 2402 | 2406 | 2407 | rBV2 | 345       | 220       | 0.00%   | 0.000%  |
| 62 | 8.897  | 2426 | 2428 | 2433 | rVB  | 335       | 191       | 0.00%   | 0.000%  |
| 63 | 8.929  | 2435 | 2438 | 2442 | rBV3 | 570       | 488       | 0.00%   | 0.000%  |
| 64 | 9.016  | 2462 | 2465 | 2468 | rBV2 | 279       | 224       | 0.00%   | 0.000%  |
| 65 | 9.070  | 2470 | 2482 | 2518 | rVV  | 503392    | 859113    | 0.46%   | 0.442%  |
| 66 | 9.286  | 2545 | 2549 | 2554 | rBV3 | 377       | 400       | 0.00%   | 0.000%  |
| 67 | 9.460  | 2599 | 2603 | 2608 | rBV3 | 348       | 286       | 0.00%   | 0.000%  |
| 68 | 9.572  | 2635 | 2638 | 2641 | rVB2 | 275       | 175       | 0.00%   | 0.000%  |
| 69 | 9.974  | 2759 | 2763 | 2767 | rVV2 | 321       | 297       | 0.00%   | 0.000%  |
| 70 | 10.157 | 2817 | 2820 | 2822 | rBV2 | 291       | 186       | 0.00%   | 0.000%  |
| 71 | 10.231 | 2833 | 2843 | 2856 | rBV3 | 10608     | 15527     | 0.01%   | 0.008%  |

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 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
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Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM071219WMA.M  
 Title : VOC Analysis

|     |        |      |      |      |      |        |        |       |        |
|-----|--------|------|------|------|------|--------|--------|-------|--------|
| 72  | 10.414 | 2887 | 2900 | 2919 | rBV  | 385378 | 621795 | 0.34% | 0.320% |
| 73  | 10.517 | 2928 | 2932 | 2933 | rBV  | 322    | 256    | 0.00% | 0.000% |
| 74  | 10.598 | 2953 | 2957 | 2963 | rVB2 | 867    | 888    | 0.00% | 0.000% |
| 75  | 10.623 | 2963 | 2965 | 2970 | rVV  | 360    | 281    | 0.00% | 0.000% |
| 76  | 10.659 | 2972 | 2976 | 2983 | rVB2 | 370    | 497    | 0.00% | 0.000% |
| 77  | 10.839 | 3025 | 3032 | 3037 | rVB4 | 294    | 360    | 0.00% | 0.000% |
| 78  | 11.035 | 3091 | 3093 | 3097 | rVB2 | 433    | 267    | 0.00% | 0.000% |
| 79  | 11.080 | 3101 | 3107 | 3111 | rBV5 | 392    | 429    | 0.00% | 0.000% |
| 80  | 11.170 | 3132 | 3135 | 3140 | rVB2 | 300    | 291    | 0.00% | 0.000% |
| 81  | 11.196 | 3140 | 3143 | 3145 | rBV  | 404    | 256    | 0.00% | 0.000% |
| 82  | 11.469 | 3215 | 3228 | 3253 | rBV  | 479356 | 774837 | 0.42% | 0.398% |
| 83  | 11.845 | 3331 | 3345 | 3361 | rBV  | 519985 | 843153 | 0.46% | 0.434% |
| 84  | 12.180 | 3446 | 3449 | 3451 | rBV2 | 297    | 210    | 0.00% | 0.000% |
| 85  | 12.221 | 3459 | 3462 | 3465 | rBV4 | 417    | 362    | 0.00% | 0.000% |
| 86  | 12.238 | 3465 | 3467 | 3473 | rVB4 | 349    | 292    | 0.00% | 0.000% |
| 87  | 12.331 | 3492 | 3496 | 3498 | rBV2 | 326    | 245    | 0.00% | 0.000% |
| 88  | 12.469 | 3535 | 3539 | 3540 | rBV  | 495    | 369    | 0.00% | 0.000% |
| 89  | 12.479 | 3540 | 3542 | 3544 | rVV2 | 561    | 317    | 0.00% | 0.000% |
| 90  | 12.681 | 3600 | 3605 | 3613 | rBV2 | 721    | 1279   | 0.00% | 0.001% |
| 91  | 12.739 | 3621 | 3623 | 3627 | rVB3 | 445    | 279    | 0.00% | 0.000% |
| 92  | 12.765 | 3627 | 3631 | 3632 | rBV2 | 229    | 180    | 0.00% | 0.000% |
| 93  | 12.890 | 3667 | 3670 | 3674 | rBV3 | 267    | 246    | 0.00% | 0.000% |
| 94  | 12.996 | 3699 | 3703 | 3707 | rBV4 | 295    | 257    | 0.00% | 0.000% |
| 95  | 13.318 | 3800 | 3803 | 3808 | rBV3 | 334    | 312    | 0.00% | 0.000% |
| 96  | 13.517 | 3862 | 3865 | 3871 | rVB3 | 532    | 610    | 0.00% | 0.000% |
| 97  | 13.614 | 3891 | 3895 | 3902 | rVB3 | 494    | 616    | 0.00% | 0.000% |
| 98  | 13.649 | 3902 | 3906 | 3909 | rBV2 | 450    | 406    | 0.00% | 0.000% |
| 99  | 14.967 | 4314 | 4316 | 4319 | rBV  | 537    | 361    | 0.00% | 0.000% |
| 100 | 15.421 | 4454 | 4457 | 4464 | rBV4 | 886    | 994    | 0.00% | 0.001% |

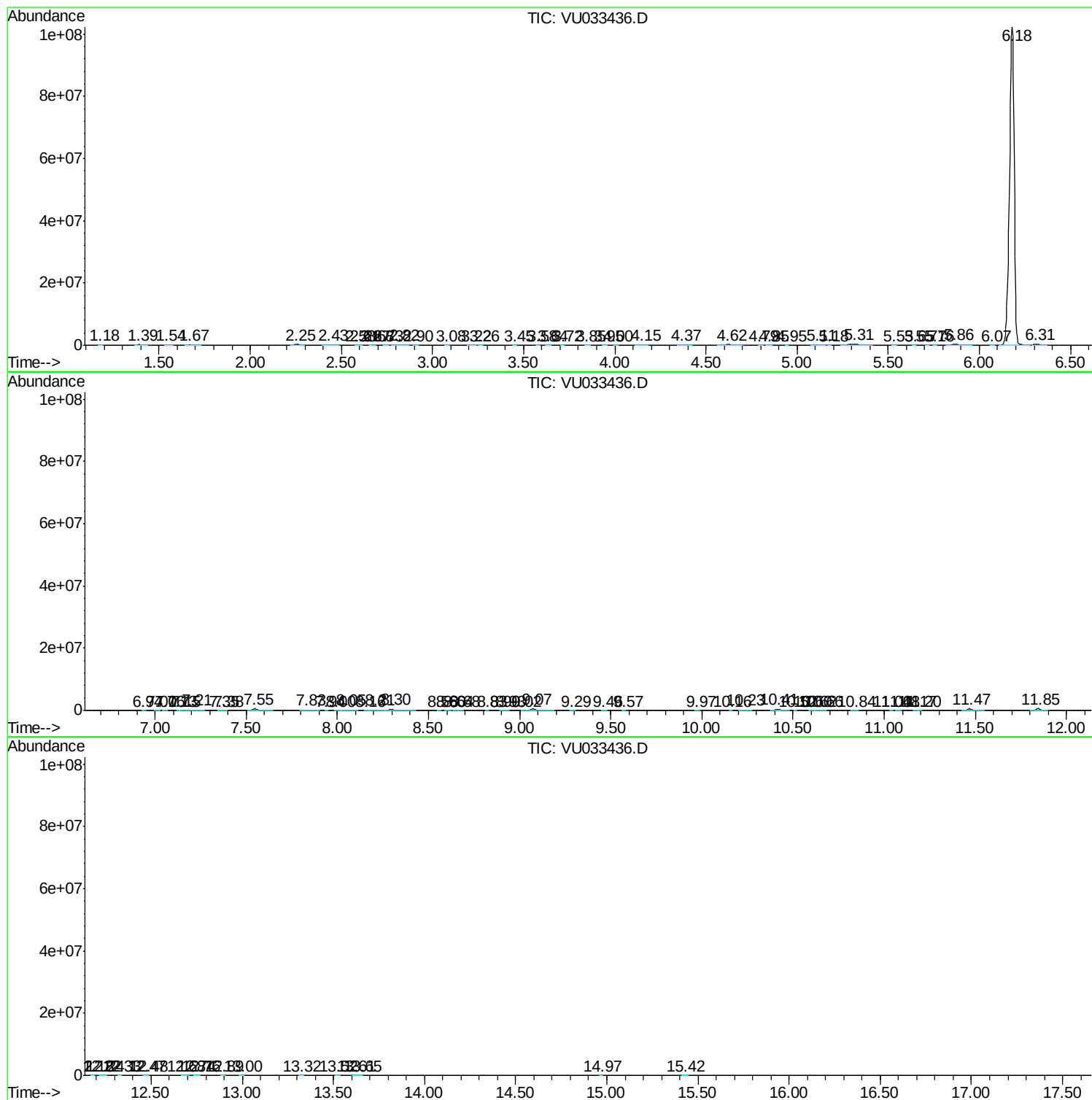
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM071219WMA.M  
Quant Title : VOC Analysis

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



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU072519\  
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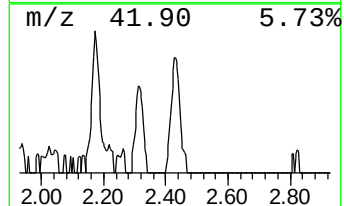
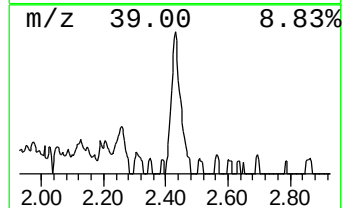
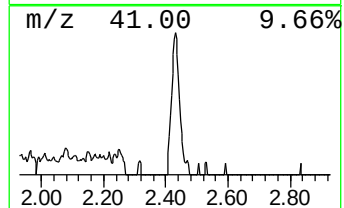
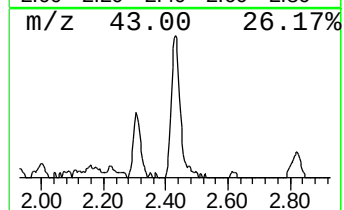
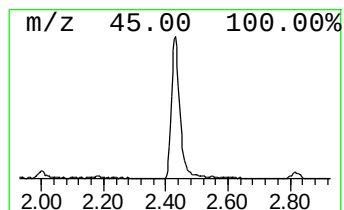
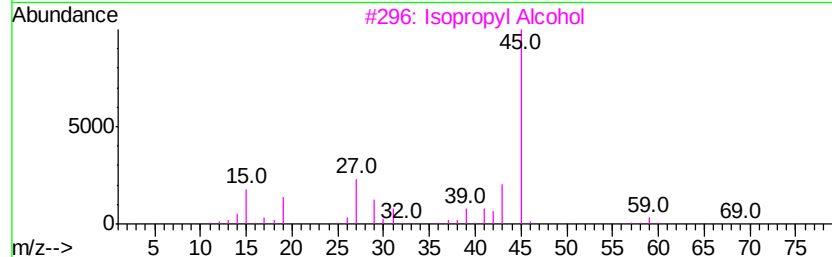
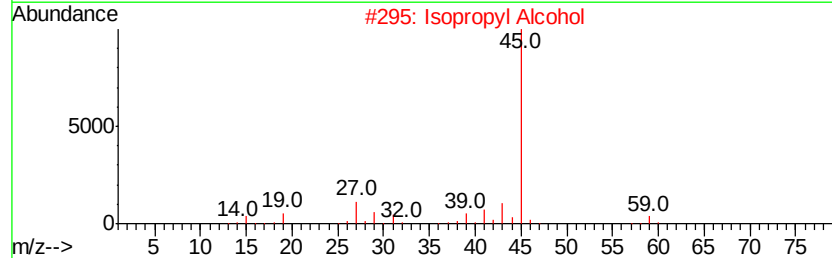
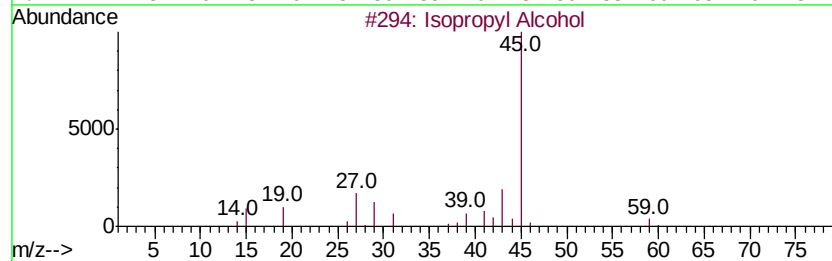
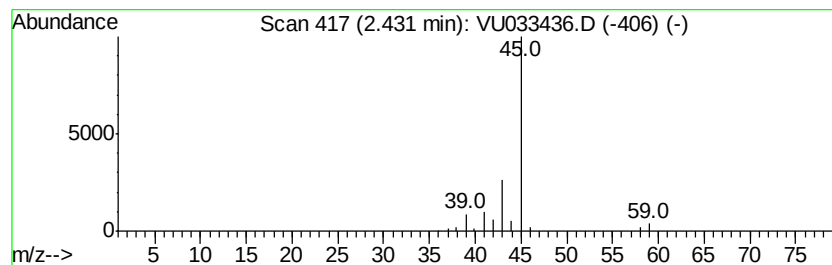
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 Isopropyl Alcohol Concentration Rank 2

| R.T. | EstConc   | Area  | Relative to ISTD    | R.T. |
|------|-----------|-------|---------------------|------|
| 2.43 | 3.21 ug/L | 42436 | 1,4-Difluorobenzene | 5.86 |

| Hit# | of | 5 | Tentative ID      | MW | MolForm | CAS#        | Qual |
|------|----|---|-------------------|----|---------|-------------|------|
| 1    |    |   | Isopropyl Alcohol | 60 | C3H8O   | 000067-63-0 | 74   |
| 2    |    |   | Isopropyl Alcohol | 60 | C3H8O   | 000067-63-0 | 9    |
| 3    |    |   | Isopropyl Alcohol | 60 | C3H8O   | 000067-63-0 | 9    |
| 4    |    |   | Isopropyl Alcohol | 60 | C3H8O   | 000067-63-0 | 9    |
| 5    |    |   | Formamide         | 45 | CH3NO   | 000075-12-7 | 4    |



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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 |
| Isopropyl Alcohol | 2.43 | 3.2     | ug/L  | 42436    | 1                       | 5.86 | 661031 | 50.0 |