LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU061219\
Data File : VU032673.D
Acq On : 12 Jun 2019 23:23
Operator : JC/SP
Sample : K3313-16
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 38 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** C0M07

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0 % 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:\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 | 1.180 | 23 | 28 | 35 | rVB | 19897 | 17980 | 3.06% | 0.371% |
| 2 | 1.396 | 87 | 95 | 106 | rVB | 88901 | 97264 | 16.57% | 2.007% |
| 3 | 1.675 | 174 | 182 | 195 | rBV | 66424 | 81542 | 13.90% | 1.683% |
| 4 | 2.267 | 355 | 366 | 378 | rBV | 137041 | 206471 | 35.18% | 4.260% |
| 5 | 2.437 | 408 | 419 | 439 | rBV | 28465 | 53458 | 9.11% | 1.103% |
| 6 | 2.691 | 495 | 498 | 503 | rVB2 | 434 | 409 | 0.07% | 0.008% |
| 7 | 2.733 | 503 | 511 | 520 | rBV4 | 769 | 1293 | 0.22% | 0.027% |
| 8 | 2.794 | 524 | 530 | 531 | rBV | 329 | 321 | 0.05% | 0.007% |
| 9 | 2.830 | 532 | 541 | 554 | rVB3 | 2634 | 5693 | 0.97% | 0.117% |
| 10 | 2.881 | 554 | 557 | 561 | rBV2 | 210 | 202 | 0.03% | 0.004% |
| 11 | 2.990 | 587 | 591 | 594 | rBV3 | 472 | 435 | 0.07% | 0.009% |
| 12 | 3.045 | 602 | 608 | 610 | rBV2 | 155 | 164 | 0.03% | 0.003% |
| 13 | 3.190 | 642 | 653 | 654 | rBV3 | 1324 | 1655 | 0.28% | 0.034% |
| 14 | 3.302 | 680 | 688 | 693 | rBV4 | 1106 | 1423 | 0.24% | 0.029% |
| 15 | 3.653 | 793 | 797 | 804 | rVB2 | 164 | 192 | 0.03% | 0.004% |
| 16 | 3.714 | 813 | 816 | 822 | rVB2 | 194 | 180 | 0.03% | 0.004% |
| 17 | 3.752 | 822 | 828 | 830 | rBV2 | 309 | 338 | 0.06% | 0.007% |
| 18 | 3.804 | 838 | 844 | 852 | rBV2 | 173 | 286 | 0.05% | 0.006% |
| 19 | 3.958 | 888 | 892 | 898 | rBV2 | 308 | 362 | 0.06% | 0.007% |
| 20 | 4.068 | 921 | 926 | 929 | rBV2 | 225 | 191 | 0.03% | 0.004% |
| 21 | 4.170 | 947 | 958 | 989 | rBV | 53169 | 145500 | 24.79% | 3.002% |
| 22 | 4.354 | 1012 | 1015 | 1024 | rVB5 | 414 | 527 | 0.09% | 0.011% |
| 23 | 4.486 | 1053 | 1056 | 1060 | rBV | 174 | 161 | 0.03% | 0.003% |
| 24 | 4.640 | 1088 | 1104 | 1126 | rBV | 99460 | 234902 | 40.03% | 4.847% |
| 25 | 4.887 | 1175 | 1181 | 1186 | rVB4 | 377 | 535 | 0.09% | 0.011% |
| 26 | 4.929 | 1190 | 1194 | 1199 | rVB | 245 | 203 | 0.03% | 0.004% |
| 27 | 4.981 | 1205 | 1210 | 1213 | rVB2 | 270 | 196 | 0.03% | 0.004% |
| 28 | 4.997 | 1213 | 1215 | 1221 | rBV2 | 192 | 186 | 0.03% | 0.004% |
| 29 | 5.061 | 1232 | 1235 | 1240 | rBV2 | 156 | 174 | 0.03% | 0.004% |
| 30 | 5.219 | 1277 | 1284 | 1286 | rBV3 | 467 | 419 | 0.07% | 0.009% |
| 31 | 5.334 | 1298 | 1320 | 1343 | rBV2 | 199011 | 586830 | 100.00% | 12.109% |
| 32 | 5.502 | 1370 | 1372 | 1378 | rVB2 | 238 | 203 | 0.03% | 0.004% |
| 33 | 5.585 | 1393 | 1398 | 1401 | rBV2 | 203 | 188 | 0.03% | 0.004% |
| 34 | 5.630 | 1408 | 1412 | 1416 | rBV2 | 250 | 218 | 0.04% | 0.004% |

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Operator : JC/SP
Sample : K3313-16
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 38 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** C0M07

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0 % 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:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
Title : VOC Analysis

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 5.740 | 1439 | 1446 | 1449 | rBV2 | 179 | 227 | 0.04% | 0.005% |
| 36 | 5.759 | 1450 | 1452 | 1456 | rVB2 | 308 | 179 | 0.03% | 0.004% |
| 37 | 5.881 | 1477 | 1490 | 1525 | rBV | 202907 | 402203 | 68.54% | 8.299% |
| 38 | 6.180 | 1568 | 1583 | 1602 | rVB8 | 19112 | 43452 | 7.40% | 0.897% |
| 39 | 6.254 | 1602 | 1606 | 1609 | rBV | 282 | 176 | 0.03% | 0.004% |
| 40 | 6.325 | 1615 | 1628 | 1654 | rBV | 131754 | 263428 | 44.89% | 5.436% |
| 41 | 6.457 | 1664 | 1669 | 1670 | rVB3 | 249 | 172 | 0.03% | 0.004% |
| 42 | 6.492 | 1677 | 1680 | 1687 | rVB2 | 200 | 213 | 0.04% | 0.004% |
| 43 | 6.598 | 1708 | 1713 | 1718 | rVV2 | 257 | 301 | 0.05% | 0.006% |
| 44 | 6.659 | 1730 | 1732 | 1737 | rVB2 | 283 | 201 | 0.03% | 0.004% |
| 45 | 6.694 | 1737 | 1743 | 1745 | rBV | 155 | 161 | 0.03% | 0.003% |
| 46 | 6.920 | 1808 | 1813 | 1818 | rBV2 | 162 | 166 | 0.03% | 0.003% |
| 47 | 7.006 | 1836 | 1840 | 1845 | rBV2 | 209 | 231 | 0.04% | 0.005% |
| 48 | 7.087 | 1861 | 1865 | 1869 | rBV | 225 | 198 | 0.03% | 0.004% |
| 49 | 7.112 | 1869 | 1873 | 1876 | rBV2 | 214 | 187 | 0.03% | 0.004% |
| 50 | 7.157 | 1884 | 1887 | 1891 | rBV2 | 263 | 195 | 0.03% | 0.004% |
| 51 | 7.225 | 1896 | 1908 | 1928 | rBV | 70078 | 126769 | 21.60% | 2.616% |
| 52 | 7.386 | 1949 | 1958 | 1969 | rVB6 | 1064 | 2129 | 0.36% | 0.044% |
| 53 | 7.450 | 1972 | 1978 | 1981 | rBV2 | 176 | 169 | 0.03% | 0.003% |
| 54 | 7.559 | 1999 | 2012 | 2034 | rBV | 266157 | 464964 | 79.23% | 9.594% |
| 55 | 7.849 | 2090 | 2102 | 2122 | rBV | 44854 | 80464 | 13.71% | 1.660% |
| 56 | 7.977 | 2139 | 2142 | 2146 | rBV3 | 187 | 162 | 0.03% | 0.003% |
| 57 | 8.112 | 2177 | 2184 | 2191 | rBV2 | 280 | 367 | 0.06% | 0.008% |
| 58 | 8.170 | 2191 | 2202 | 2203 | rBV2 | 837 | 1013 | 0.17% | 0.021% |
| 59 | 8.309 | 2234 | 2245 | 2277 | rBV3 | 135500 | 303194 | 51.67% | 6.256% |
| 60 | 8.936 | 2437 | 2440 | 2444 | rVB2 | 282 | 212 | 0.04% | 0.004% |
| 61 | 8.993 | 2455 | 2458 | 2462 | rVB | 264 | 208 | 0.04% | 0.004% |
| 62 | 9.083 | 2475 | 2486 | 2532 | rVV | 292707 | 499571 | 85.13% | 10.308% |
| 63 | 9.276 | 2543 | 2546 | 2550 | rVB2 | 242 | 178 | 0.03% | 0.004% |
| 64 | 9.344 | 2560 | 2567 | 2570 | rBV2 | 149 | 178 | 0.03% | 0.004% |
| 65 | 9.389 | 2573 | 2581 | 2590 | rBV2 | 423 | 691 | 0.12% | 0.014% |
| 66 | 9.492 | 2608 | 2613 | 2617 | rBV2 | 253 | 265 | 0.05% | 0.005% |
| 67 | 9.601 | 2643 | 2647 | 2651 | rBV2 | 180 | 196 | 0.03% | 0.004% |
| 68 | 9.794 | 2702 | 2707 | 2709 | rBV | 317 | 286 | 0.05% | 0.006% |
| 69 | 9.820 | 2712 | 2715 | 2719 | rBV | 242 | 170 | 0.03% | 0.004% |
| 70 | 9.919 | 2742 | 2746 | 2749 | rBV2 | 284 | 200 | 0.03% | 0.004% |
| 71 | 10.009 | 2769 | 2774 | 2778 | rBV | 218 | 253 | 0.04% | 0.005% |

LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU061219\
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Acq On : 12 Jun 2019 23:23
Operator : JC/SP
Sample : K3313-16
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 38 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** C0M07

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0 % 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:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
Title : VOC Analysis

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 10.132 | 2809 | 2812 | 2817 | rVB2 | 346 | 377 | 0.06% | 0.008% |
| 73 | 10.177 | 2817 | 2826 | 2829 | rBV2 | 304 | 490 | 0.08% | 0.010% |
| 74 | 10.427 | 2892 | 2904 | 2926 | rBV | 178034 | 286301 | 48.79% | 5.908% |
| 75 | 10.559 | 2941 | 2945 | 2950 | rVB | 214 | 220 | 0.04% | 0.005% |
| 76 | 10.604 | 2950 | 2959 | 2968 | rBV4 | 1635 | 2783 | 0.47% | 0.057% |
| 77 | 10.701 | 2984 | 2989 | 2992 | rBV | 221 | 221 | 0.04% | 0.005% |
| 78 | 10.800 | 3017 | 3020 | 3026 | rVB2 | 240 | 256 | 0.04% | 0.005% |
| 79 | 10.839 | 3026 | 3032 | 3035 | rBV2 | 232 | 191 | 0.03% | 0.004% |
| 80 | 11.051 | 3093 | 3098 | 3101 | rBV2 | 182 | 230 | 0.04% | 0.005% |
| 81 | 11.141 | 3123 | 3126 | 3130 | rVB | 262 | 184 | 0.03% | 0.004% |
| 82 | 11.199 | 3141 | 3144 | 3151 | rVB2 | 149 | 162 | 0.03% | 0.003% |
| 83 | 11.308 | 3173 | 3178 | 3180 | rBV2 | 230 | 213 | 0.04% | 0.004% |
| 84 | 11.479 | 3220 | 3231 | 3253 | rBV | 290671 | 476526 | 81.20% | 9.833% |
| 85 | 11.855 | 3336 | 3348 | 3376 | rBV | 265454 | 439300 | 74.86% | 9.065% |
| 86 | 12.106 | 3424 | 3426 | 3434 | rVB2 | 424 | 383 | 0.07% | 0.008% |
| 87 | 12.148 | 3434 | 3439 | 3443 | rBV3 | 362 | 398 | 0.07% | 0.008% |
| 88 | 12.479 | 3535 | 3542 | 3546 | rBV3 | 801 | 1056 | 0.18% | 0.022% |
| 89 | 12.566 | 3562 | 3569 | 3571 | rBV2 | 182 | 222 | 0.04% | 0.005% |
| 90 | 12.588 | 3571 | 3576 | 3579 | rVV2 | 204 | 205 | 0.03% | 0.004% |
| 91 | 13.215 | 3764 | 3771 | 3776 | rBV2 | 214 | 304 | 0.05% | 0.006% |
| 92 | 13.283 | 3786 | 3792 | 3795 | rBV2 | 206 | 271 | 0.05% | 0.006% |
| 93 | 13.707 | 3921 | 3924 | 3927 | rBV2 | 222 | 206 | 0.04% | 0.004% |
| 94 | 13.858 | 3967 | 3971 | 3978 | rVB3 | 375 | 351 | 0.06% | 0.007% |
| 95 | 13.910 | 3982 | 3987 | 3989 | rBV2 | 447 | 381 | 0.06% | 0.008% |
| 96 | 14.144 | 4057 | 4060 | 4062 | rBV3 | 261 | 199 | 0.03% | 0.004% |
| 97 | 14.257 | 4093 | 4095 | 4099 | rVB2 | 265 | 173 | 0.03% | 0.004% |
| 98 | 14.466 | 4156 | 4160 | 4166 | rVB3 | 450 | 458 | 0.08% | 0.009% |
| 99 | 14.498 | 4166 | 4170 | 4172 | rBV2 | 386 | 345 | 0.06% | 0.007% |
| 100 | 16.244 | 4710 | 4713 | 4716 | rBV2 | 527 | 369 | 0.06% | 0.008% |

Sum of corrected areas: 4846205

LSC Report - Integrated Chromatogram

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU061219\
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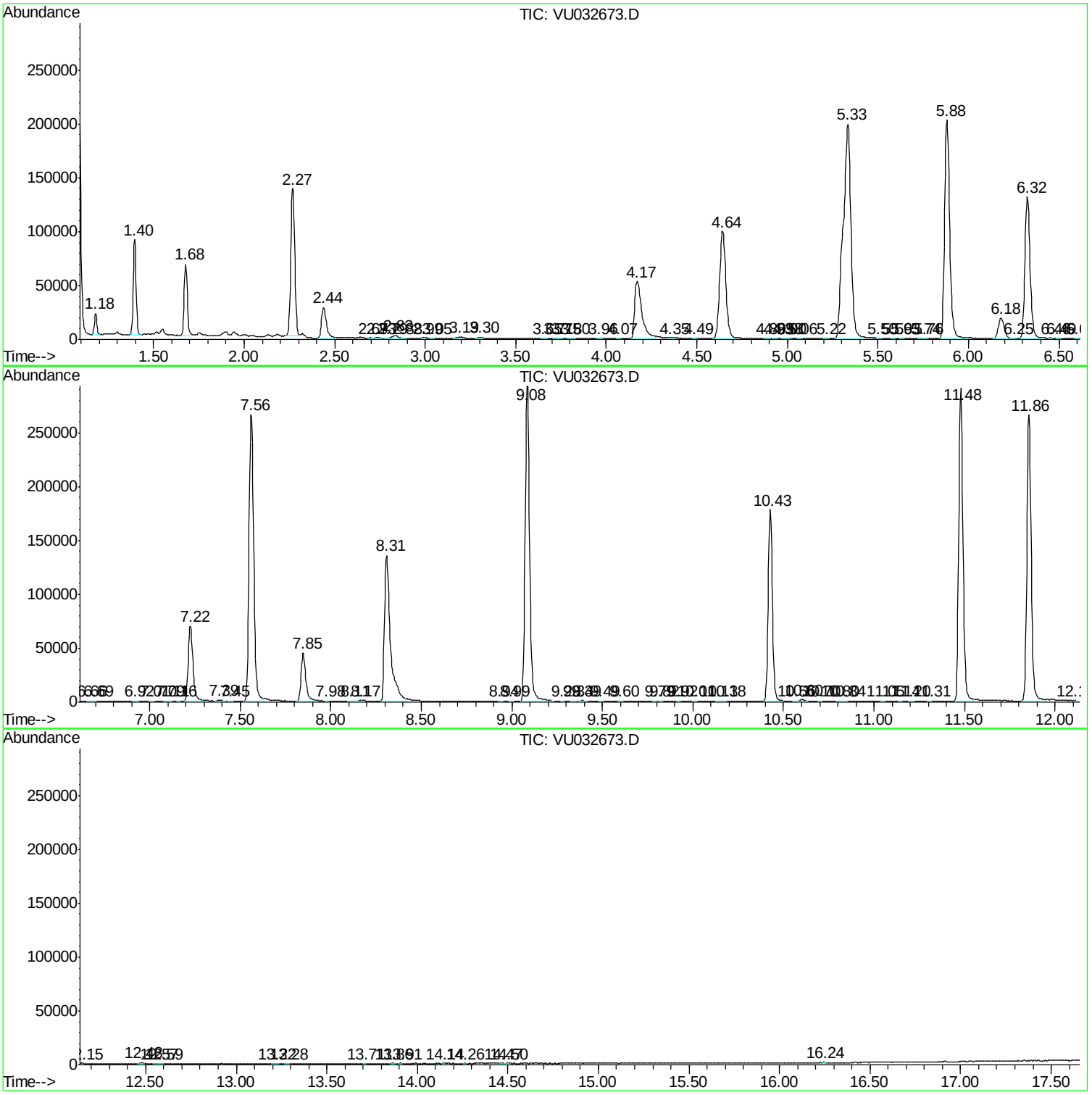
Operator : JC/SP
Sample : K3313-16
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 38 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** C0M07

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
Quant Title : VOC Analysis

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



# Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU061219\
Data File : VU032673.D
Acq On : 12 Jun 2019 23:23
Operator : JC/SP
Sample : K3313-16
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 38 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** C0M07

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
Quant Title : VOC Analysis

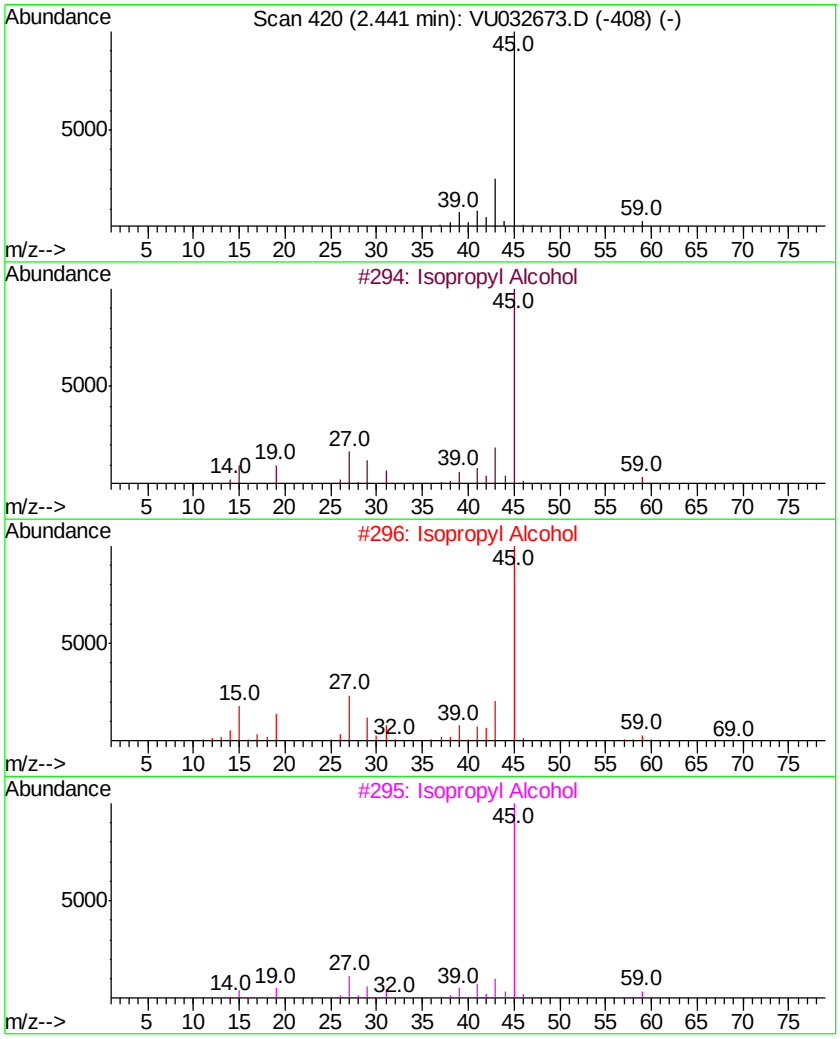
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

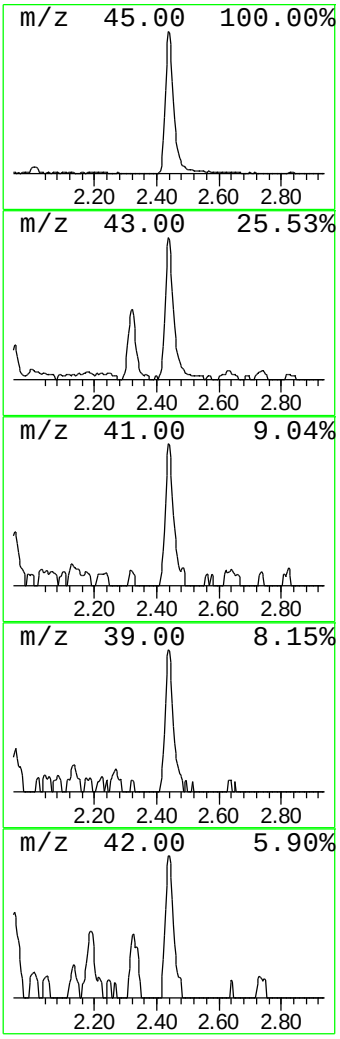
**********

Peak Number 1 Isopropyl Alcohol Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 2.44 | 6.65 ug/L | 53458 | 1,4-Difluorobenzene | 5.88 |

| 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 | Ethylamine | 45 | C2H7N | 000075-04-7 | 5 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU061219\
Data File : VU032673.D
Acq On : 12 Jun 2019 23:23
Operator : JC/SP
Sample : K3313-16
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 38 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** C0M07

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
Quant Title : VOC Analysis

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

| | | | | | Internal Standard | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| Isopropyl Alcohol | 2.44 | 6.7 | ug/L | 53458 | 1 | 5.88 | 402203 | 50.0 |