LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU042719\
Data File : VU031552.D
Acq On : 26 Apr 2019 23:53
Operator : JC/SP
Sample : K2592-04 50X
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 37 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** C0WZ5

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\SOMULM042719WMA.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 | 24 | 28 | 34 | rVB | 20480 | 17020 | 0.45% | 0.060% |
| 2 | 1.395 | 88 | 95 | 107 | rBV | 545330 | 584808 | 15.40% | 2.073% |
| 3 | 1.678 | 176 | 183 | 199 | rVB | 409809 | 506734 | 13.34% | 1.796% |
| 4 | 2.270 | 356 | 367 | 381 | rVB | 886705 | 1350103 | 35.55% | 4.785% |
| 5 | 2.411 | 408 | 411 | 417 | rVB5 | 1723 | 2005 | 0.05% | 0.007% |
| 6 | 2.473 | 425 | 430 | 434 | rBV8 | 2162 | 2525 | 0.07% | 0.009% |
| 7 | 2.575 | 457 | 462 | 464 | rBV7 | 1941 | 1830 | 0.05% | 0.006% |
| 8 | 2.611 | 470 | 473 | 475 | rBV3 | 1286 | 846 | 0.02% | 0.003% |
| 9 | 2.698 | 492 | 500 | 507 | rVV9 | 4329 | 6415 | 0.17% | 0.023% |
| 10 | 2.833 | 540 | 542 | 546 | rVB3 | 1832 | 1299 | 0.03% | 0.005% |
| 11 | 2.855 | 546 | 549 | 555 | rVB4 | 1240 | 1156 | 0.03% | 0.004% |
| 12 | 3.006 | 592 | 596 | 598 | rBV3 | 1017 | 785 | 0.02% | 0.003% |
| 13 | 3.067 | 612 | 615 | 620 | rBV4 | 940 | 928 | 0.02% | 0.003% |
| 14 | 3.186 | 648 | 652 | 657 | rVB3 | 1277 | 1071 | 0.03% | 0.004% |
| 15 | 3.225 | 660 | 664 | 666 | rVV | 1129 | 972 | 0.03% | 0.003% |
| 16 | 3.241 | 666 | 669 | 673 | rVB2 | 1348 | 978 | 0.03% | 0.003% |
| 17 | 3.270 | 673 | 678 | 682 | rVB5 | 1220 | 1167 | 0.03% | 0.004% |
| 18 | 3.296 | 682 | 686 | 687 | rBV3 | 1081 | 759 | 0.02% | 0.003% |
| 19 | 3.309 | 687 | 690 | 693 | rVB2 | 1335 | 829 | 0.02% | 0.003% |
| 20 | 3.370 | 702 | 709 | 711 | rVV4 | 1393 | 1292 | 0.03% | 0.005% |
| 21 | 3.399 | 714 | 718 | 724 | rVB6 | 2003 | 2123 | 0.06% | 0.008% |
| 22 | 3.428 | 724 | 727 | 731 | rBV2 | 1594 | 1343 | 0.04% | 0.005% |
| 23 | 3.527 | 756 | 758 | 761 | rVV2 | 1269 | 818 | 0.02% | 0.003% |
| 24 | 3.543 | 761 | 763 | 765 | rVV2 | 1609 | 969 | 0.03% | 0.003% |
| 25 | 3.556 | 765 | 767 | 770 | rVB2 | 2073 | 1107 | 0.03% | 0.004% |
| 26 | 3.608 | 781 | 783 | 787 | rVB | 1199 | 742 | 0.02% | 0.003% |
| 27 | 3.755 | 826 | 829 | 830 | rVV3 | 1342 | 795 | 0.02% | 0.003% |
| 28 | 3.788 | 834 | 839 | 840 | rVV | 877 | 774 | 0.02% | 0.003% |
| 29 | 3.916 | 876 | 879 | 883 | rBV4 | 1053 | 968 | 0.03% | 0.003% |
| 30 | 3.945 | 885 | 888 | 894 | rVB3 | 1135 | 1112 | 0.03% | 0.004% |
| 31 | 4.006 | 900 | 907 | 910 | rBV2 | 663 | 828 | 0.02% | 0.003% |
| 32 | 4.074 | 926 | 928 | 935 | rVB3 | 1595 | 1053 | 0.03% | 0.004% |
| 33 | 4.109 | 935 | 939 | 944 | rBV2 | 1419 | 1544 | 0.04% | 0.005% |
| 34 | 4.183 | 949 | 962 | 1010 | rBV2 | 349358 | 1090574 | 28.72% | 3.865% |

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Sample : K2592-04 50X
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 37 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** C0WZ5

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\SOMULM042719WMA.M
Title : VOC Analysis

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 4.492 | 1055 | 1058 | 1061 | rBV3 | 1182 | 776 | 0.02% | 0.003% |
| 36 | 4.643 | 1086 | 1105 | 1129 | rBV | 606256 | 1450170 | 38.19% | 5.140% |
| 37 | 4.887 | 1179 | 1181 | 1186 | rVB3 | 2173 | 1221 | 0.03% | 0.004% |
| 38 | 4.913 | 1186 | 1189 | 1192 | rVB2 | 2184 | 1594 | 0.04% | 0.006% |
| 39 | 4.945 | 1196 | 1199 | 1203 | rBV5 | 1060 | 902 | 0.02% | 0.003% |
| 40 | 5.000 | 1213 | 1216 | 1223 | rVB5 | 2094 | 2167 | 0.06% | 0.008% |
| 41 | 5.090 | 1239 | 1244 | 1247 | rBV2 | 2850 | 2593 | 0.07% | 0.009% |
| 42 | 5.161 | 1262 | 1266 | 1269 | rBV3 | 989 | 991 | 0.03% | 0.004% |
| 43 | 5.241 | 1287 | 1291 | 1293 | rBV3 | 1708 | 1520 | 0.04% | 0.005% |
| 44 | 5.334 | 1294 | 1320 | 1354 | rBV2 | 1256198 | 3797497 | 100.00% | 13.459% |
| 45 | 5.640 | 1412 | 1415 | 1421 | rVB9 | 1543 | 1369 | 0.04% | 0.005% |
| 46 | 5.669 | 1421 | 1424 | 1426 | rBV3 | 2140 | 1442 | 0.04% | 0.005% |
| 47 | 5.755 | 1448 | 1451 | 1454 | rVB3 | 1966 | 1232 | 0.03% | 0.004% |
| 48 | 5.775 | 1454 | 1457 | 1459 | rBV | 1489 | 1013 | 0.03% | 0.004% |
| 49 | 5.884 | 1475 | 1491 | 1518 | rBV | 985869 | 2038236 | 53.67% | 7.224% |
| 50 | 6.183 | 1570 | 1584 | 1606 | rBV2 | 307500 | 648378 | 17.07% | 2.298% |
| 51 | 6.325 | 1615 | 1628 | 1663 | rVB | 829975 | 1714350 | 45.14% | 6.076% |
| 52 | 6.527 | 1689 | 1691 | 1696 | rVB3 | 1883 | 1115 | 0.03% | 0.004% |
| 53 | 6.604 | 1712 | 1715 | 1726 | rVB6 | 2548 | 3066 | 0.08% | 0.011% |
| 54 | 6.649 | 1726 | 1729 | 1731 | rBV2 | 1519 | 954 | 0.03% | 0.003% |
| 55 | 6.710 | 1744 | 1748 | 1752 | rVB3 | 1355 | 998 | 0.03% | 0.004% |
| 56 | 6.742 | 1752 | 1758 | 1763 | rBV4 | 1940 | 2324 | 0.06% | 0.008% |
| 57 | 6.881 | 1799 | 1801 | 1804 | rBV2 | 1069 | 865 | 0.02% | 0.003% |
| 58 | 7.112 | 1870 | 1873 | 1877 | rVB2 | 912 | 743 | 0.02% | 0.003% |
| 59 | 7.138 | 1877 | 1881 | 1882 | rBV2 | 1184 | 830 | 0.02% | 0.003% |
| 60 | 7.225 | 1890 | 1908 | 1936 | rBV | 423156 | 816263 | 21.49% | 2.893% |
| 61 | 7.421 | 1967 | 1969 | 1973 | rBV4 | 1237 | 822 | 0.02% | 0.003% |
| 62 | 7.562 | 1996 | 2013 | 2056 | rBV | 1517085 | 2869751 | 75.57% | 10.171% |
| 63 | 7.849 | 2091 | 2102 | 2127 | rBV2 | 282384 | 525332 | 13.83% | 1.862% |
| 64 | 8.228 | 2210 | 2220 | 2234 | rBV5 | 22777 | 42865 | 1.13% | 0.152% |
| 65 | 8.308 | 2234 | 2245 | 2288 | rBV | 1183449 | 2316173 | 60.99% | 8.209% |
| 66 | 8.717 | 2366 | 2372 | 2375 | rVB6 | 1752 | 1898 | 0.05% | 0.007% |
| 67 | 8.816 | 2400 | 2403 | 2404 | rBV2 | 1747 | 834 | 0.02% | 0.003% |
| 68 | 9.086 | 2474 | 2487 | 2531 | rBV | 1387297 | 2470420 | 65.05% | 8.756% |
| 69 | 9.315 | 2553 | 2558 | 2560 | rBV4 | 1581 | 1606 | 0.04% | 0.006% |
| 70 | 9.514 | 2618 | 2620 | 2624 | rVB3 | 1534 | 884 | 0.02% | 0.003% |
| 71 | 9.549 | 2629 | 2631 | 2635 | rVB5 | 1495 | 843 | 0.02% | 0.003% |

LSC Area Percent Report

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Sample : K2592-04 50X
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 37 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** C0WZ5

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\SOMULM042719WMA.M
Title : VOC Analysis

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 9.572 | 2635 | 2638 | 2641 | rBV2 | 1452 | 1298 | 0.03% | 0.005% |
| 73 | 9.656 | 2657 | 2664 | 2667 | rBV4 | 1526 | 2386 | 0.06% | 0.008% |
| 74 | 9.713 | 2679 | 2682 | 2687 | rVB2 | 1731 | 1229 | 0.03% | 0.004% |
| 75 | 9.758 | 2693 | 2696 | 2701 | rVB4 | 1973 | 1728 | 0.05% | 0.006% |
| 76 | 9.810 | 2710 | 2712 | 2717 | rVB4 | 1323 | 892 | 0.02% | 0.003% |
| 77 | 9.903 | 2736 | 2741 | 2745 | rVB4 | 1911 | 1698 | 0.04% | 0.006% |
| 78 | 9.971 | 2758 | 2762 | 2766 | rBV3 | 1306 | 1267 | 0.03% | 0.004% |
| 79 | 10.247 | 2841 | 2848 | 2849 | rBV3 | 1440 | 1457 | 0.04% | 0.005% |
| 80 | 10.427 | 2890 | 2904 | 2925 | rBV | 1077357 | 1743797 | 45.92% | 6.180% |
| 81 | 10.739 | 2999 | 3001 | 3006 | rVV2 | 1616 | 1277 | 0.03% | 0.005% |
| 82 | 10.871 | 3037 | 3042 | 3045 | rVB4 | 1071 | 954 | 0.03% | 0.003% |
| 83 | 10.893 | 3045 | 3049 | 3053 | rBV4 | 1069 | 1162 | 0.03% | 0.004% |
| 84 | 11.016 | 3083 | 3087 | 3092 | rBV2 | 1272 | 1144 | 0.03% | 0.004% |
| 85 | 11.077 | 3098 | 3106 | 3110 | rBV7 | 1911 | 2920 | 0.08% | 0.010% |
| 86 | 11.424 | 3212 | 3214 | 3219 | rVB3 | 1232 | 877 | 0.02% | 0.003% |
| 87 | 11.482 | 3219 | 3232 | 3258 | rBV | 1158348 | 1953157 | 51.43% | 6.922% |
| 88 | 11.803 | 3330 | 3332 | 3335 | rBV3 | 1695 | 1137 | 0.03% | 0.004% |
| 89 | 11.855 | 3336 | 3348 | 3384 | rVV | 1272387 | 2169106 | 57.12% | 7.688% |
| 90 | 12.315 | 3489 | 3491 | 3495 | rVB2 | 1695 | 921 | 0.02% | 0.003% |
| 91 | 12.453 | 3531 | 3534 | 3537 | rBV4 | 1481 | 1250 | 0.03% | 0.004% |
| 92 | 12.520 | 3553 | 3555 | 3558 | rBV2 | 1105 | 740 | 0.02% | 0.003% |
| 93 | 12.649 | 3588 | 3595 | 3599 | rBV7 | 1181 | 1544 | 0.04% | 0.005% |
| 94 | 12.819 | 3645 | 3648 | 3651 | rBV3 | 1352 | 1087 | 0.03% | 0.004% |
| 95 | 12.881 | 3665 | 3667 | 3669 | rBV2 | 1238 | 761 | 0.02% | 0.003% |
| 96 | 12.926 | 3678 | 3681 | 3682 | rBV3 | 1423 | 766 | 0.02% | 0.003% |
| 97 | 13.520 | 3862 | 3866 | 3869 | rBV4 | 1504 | 1217 | 0.03% | 0.004% |
| 98 | 13.540 | 3869 | 3872 | 3877 | rBV | 1935 | 2042 | 0.05% | 0.007% |
| 99 | 13.839 | 3958 | 3965 | 3967 | rBV6 | 2248 | 3036 | 0.08% | 0.011% |
| 100 | 15.118 | 4360 | 4363 | 4364 | rBV2 | 2767 | 1529 | 0.04% | 0.005% |

Sum of corrected areas: 28214688

LSC Report - Integrated Chromatogram

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU042719\
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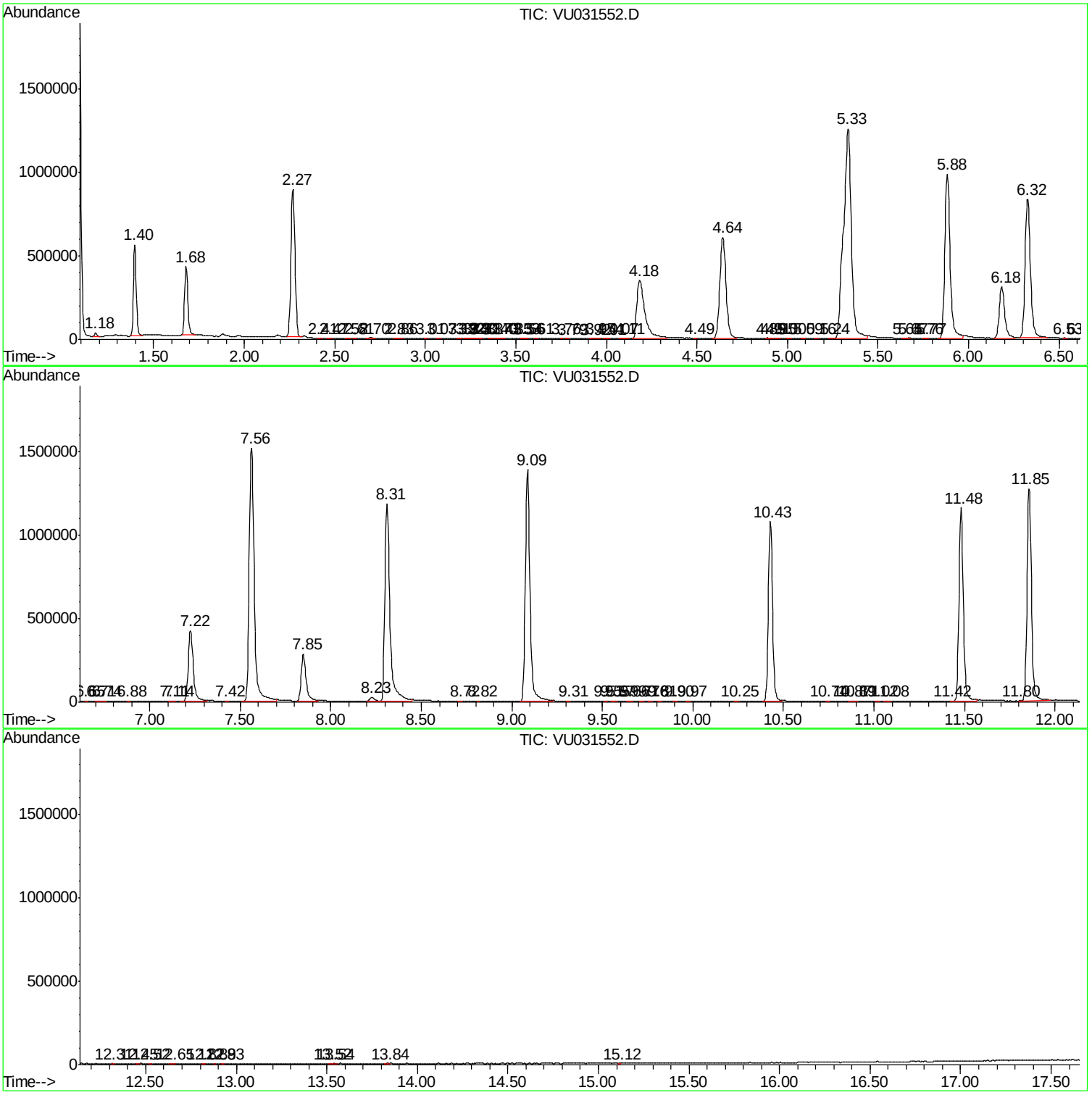
Sample : K2592-04 50X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 37 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** C0WZ5

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis

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



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU042719\
Data File : VU031552.D
Acq On : 26 Apr 2019 23:53
Operator : JC/SP
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Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 37 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** C0WZ5

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis

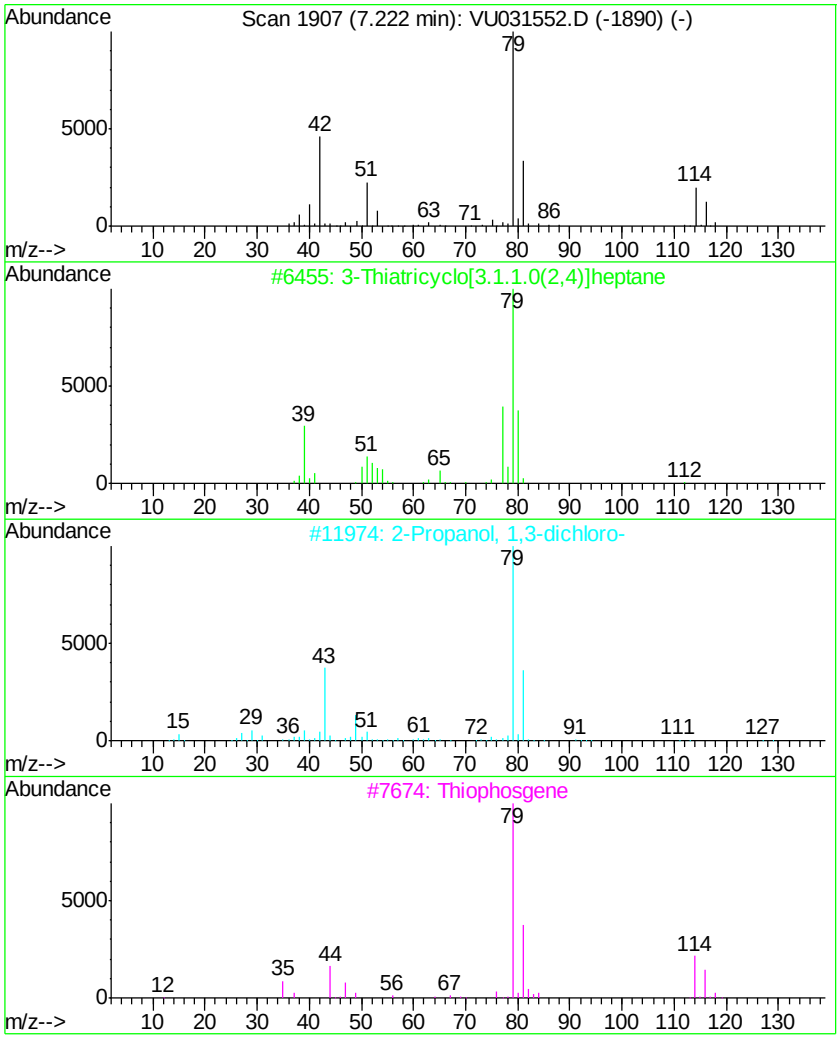
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

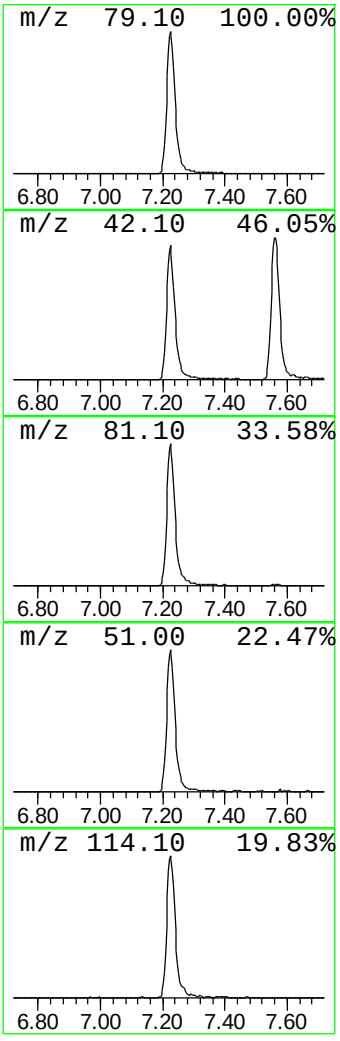
**********

Peak Number 1 unknown-01 Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.22 | 20.02 ug/L | 816263 | 1,4-Difluorobenzene | 5.88 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Thiatricyclo[3.1.1.0(2,4)]heptane | 112 | C6H8S | 1000221-37-0 | 25 |
| 2 | 2-Propanol, 1,3-dichloro- | 128 | C3H6Cl2O | 000096-23-1 | 23 |
| 3 | Thiophosgene | 114 | CCl2S | 000463-71-8 | 16 |
| 4 | 1,3-Cyclohexadiene | 80 | C6H8 | 000592-57-4 | 9 |
| 5 | 2-Propanol, 1,3-dichloro- | 128 | C3H6Cl2O | 000096-23-1 | 9 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU042719\
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Misc : 5.0mL/MSVOA_U/WATER
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**Instrument :** MSVOA_U
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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.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 |
| unknown-01 | 7.22 | 20.0 | ug/L | 816263 | 1 | 5.88 | 2038240 | 50.0 |