LSC Area Percent Report

Data Path : W:\HPCHEM1\MSVOA U\DATA\VU052218\
Data File : VU024007.D
Acq On : 22 May 2018 11:16
Operator : MD/SY
Sample : J2959-03
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 4 Sample Multiplier: 1

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 : W:\HPCHEM1\MSVOA_U\METHOD\SOMULM051218WMA.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 | 0.658 | 15 | 21 | 25 | rBV | 114 | 141 | 0.01% | 0.001% |
| 2 | 0.741 | 43 | 47 | 49 | rBV2 | 168 | 126 | 0.01% | 0.001% |
| 3 | 0.793 | 56 | 63 | 64 | rBV2 | 164 | 144 | 0.01% | 0.002% |
| 4 | 0.850 | 77 | 81 | 85 | rVB2 | 150 | 148 | 0.01% | 0.002% |
| 5 | 0.905 | 94 | 98 | 101 | rBV2 | 278 | 223 | 0.02% | 0.002% |
| 6 | 0.985 | 120 | 123 | 125 | rBV | 193 | 163 | 0.01% | 0.002% |
| 7 | 1.088 | 137 | 155 | 175 | rBV | 269047 | 313671 | 25.74% | 3.295% |
| 8 | 1.182 | 180 | 184 | 191 | rVB | 5716 | 5844 | 0.48% | 0.061% |
| 9 | 1.397 | 245 | 251 | 268 | rBV | 158695 | 164609 | 13.51% | 1.729% |
| 10 | 1.680 | 331 | 339 | 352 | rBV | 126082 | 156769 | 12.87% | 1.647% |
| 11 | 2.272 | 512 | 523 | 535 | rBV | 266943 | 403429 | 33.11% | 4.238% |
| 12 | 2.477 | 585 | 587 | 594 | rVB2 | 962 | 855 | 0.07% | 0.009% |
| 13 | 2.699 | 645 | 656 | 670 | rVB3 | 8168 | 14573 | 1.20% | 0.153% |
| 14 | 2.834 | 690 | 698 | 700 | rBV2 | 780 | 1039 | 0.09% | 0.011% |
| 15 | 2.960 | 733 | 737 | 740 | rBV | 221 | 229 | 0.02% | 0.002% |
| 16 | 2.982 | 740 | 744 | 745 | rBV2 | 350 | 211 | 0.02% | 0.002% |
| 17 | 3.506 | 902 | 907 | 910 | rBV | 272 | 293 | 0.02% | 0.003% |
| 18 | 3.699 | 961 | 967 | 973 | rBV2 | 280 | 467 | 0.04% | 0.005% |
| 19 | 3.812 | 999 | 1002 | 1004 | rBV2 | 165 | 108 | 0.01% | 0.001% |
| 20 | 3.892 | 1025 | 1027 | 1030 | rVV | 230 | 156 | 0.01% | 0.002% |
| 21 | 3.921 | 1033 | 1036 | 1038 | rVB2 | 203 | 126 | 0.01% | 0.001% |
| 22 | 3.940 | 1038 | 1042 | 1045 | rBV2 | 204 | 154 | 0.01% | 0.002% |
| 23 | 3.976 | 1051 | 1053 | 1056 | rBV | 164 | 116 | 0.01% | 0.001% |
| 24 | 4.030 | 1064 | 1070 | 1073 | rBV | 193 | 203 | 0.02% | 0.002% |
| 25 | 4.178 | 1101 | 1116 | 1162 | rBV | 112522 | 303501 | 24.91% | 3.189% |
| 26 | 4.551 | 1228 | 1232 | 1235 | rBV2 | 196 | 201 | 0.02% | 0.002% |
| 27 | 4.651 | 1246 | 1263 | 1287 | rBV | 205659 | 487730 | 40.03% | 5.124% |
| 28 | 4.815 | 1312 | 1314 | 1318 | rVB2 | 366 | 246 | 0.02% | 0.003% |
| 29 | 4.879 | 1330 | 1334 | 1337 | rBV3 | 489 | 461 | 0.04% | 0.005% |
| 30 | 4.937 | 1348 | 1352 | 1355 | rVV | 176 | 164 | 0.01% | 0.002% |
| 31 | 4.972 | 1361 | 1363 | 1367 | rVV2 | 211 | 168 | 0.01% | 0.002% |
| 32 | 4.998 | 1367 | 1371 | 1375 | rVB2 | 337 | 354 | 0.03% | 0.004% |
| 33 | 5.024 | 1375 | 1379 | 1382 | rBV2 | 151 | 137 | 0.01% | 0.001% |
| 34 | 5.046 | 1382 | 1386 | 1391 | rVB2 | 211 | 218 | 0.02% | 0.002% |

LSC Area Percent Report

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Operator : MD/SY
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Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 4 Sample Multiplier: 1

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 : W:\HPCHEM1\MSVOA_U\METHOD\SOMULM051218WMA.M
Title : VOC Analysis

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 5.075 | 1391 | 1395 | 1398 | rBV2 | 285 | 306 | 0.03% | 0.003% |
| 36 | 5.127 | 1408 | 1411 | 1416 | rVB2 | 174 | 135 | 0.01% | 0.001% |
| 37 | 5.204 | 1432 | 1435 | 1440 | rBV2 | 231 | 270 | 0.02% | 0.003% |
| 38 | 5.233 | 1440 | 1444 | 1445 | rBV2 | 202 | 143 | 0.01% | 0.002% |
| 39 | 5.345 | 1451 | 1479 | 1521 | rBV2 | 394523 | 1218406 | 100.00% | 12.800% |
| 40 | 5.673 | 1576 | 1581 | 1589 | rVB4 | 516 | 745 | 0.06% | 0.008% |
| 41 | 5.709 | 1589 | 1592 | 1594 | rBV2 | 289 | 193 | 0.02% | 0.002% |
| 42 | 5.760 | 1606 | 1608 | 1611 | rVB2 | 260 | 149 | 0.01% | 0.002% |
| 43 | 5.779 | 1611 | 1614 | 1617 | rBV2 | 295 | 233 | 0.02% | 0.002% |
| 44 | 5.808 | 1622 | 1623 | 1628 | rVB2 | 220 | 136 | 0.01% | 0.001% |
| 45 | 5.841 | 1628 | 1633 | 1634 | rBV2 | 263 | 192 | 0.02% | 0.002% |
| 46 | 5.889 | 1634 | 1648 | 1688 | rBV | 312040 | 641930 | 52.69% | 6.744% |
| 47 | 6.085 | 1707 | 1709 | 1712 | rVB2 | 415 | 205 | 0.02% | 0.002% |
| 48 | 6.175 | 1732 | 1737 | 1749 | rVB5 | 1204 | 2295 | 0.19% | 0.024% |
| 49 | 6.275 | 1766 | 1768 | 1771 | rVB | 239 | 117 | 0.01% | 0.001% |
| 50 | 6.336 | 1771 | 1787 | 1819 | rBV | 281544 | 576880 | 47.35% | 6.061% |
| 51 | 6.683 | 1891 | 1895 | 1898 | rVB | 232 | 189 | 0.02% | 0.002% |
| 52 | 6.702 | 1898 | 1901 | 1904 | rBV | 215 | 224 | 0.02% | 0.002% |
| 53 | 6.808 | 1930 | 1934 | 1937 | rBV | 216 | 245 | 0.02% | 0.003% |
| 54 | 6.876 | 1952 | 1955 | 1958 | rBV | 231 | 176 | 0.01% | 0.002% |
| 55 | 6.931 | 1969 | 1972 | 1974 | rVB2 | 189 | 104 | 0.01% | 0.001% |
| 56 | 6.950 | 1974 | 1978 | 1980 | rBV2 | 202 | 180 | 0.01% | 0.002% |
| 57 | 6.979 | 1984 | 1987 | 1993 | rVV2 | 163 | 206 | 0.02% | 0.002% |
| 58 | 7.050 | 2006 | 2009 | 2018 | rVB | 206 | 286 | 0.02% | 0.003% |
| 59 | 7.091 | 2018 | 2022 | 2025 | rBV2 | 150 | 158 | 0.01% | 0.002% |
| 60 | 7.136 | 2032 | 2036 | 2038 | rBV2 | 211 | 184 | 0.02% | 0.002% |
| 61 | 7.233 | 2051 | 2066 | 2089 | rBV | 142930 | 261547 | 21.47% | 2.748% |
| 62 | 7.390 | 2111 | 2115 | 2117 | rBV2 | 202 | 144 | 0.01% | 0.002% |
| 63 | 7.403 | 2117 | 2119 | 2122 | rBV2 | 256 | 172 | 0.01% | 0.002% |
| 64 | 7.471 | 2135 | 2140 | 2148 | rVB3 | 644 | 987 | 0.08% | 0.010% |
| 65 | 7.506 | 2148 | 2151 | 2154 | rBV | 235 | 184 | 0.02% | 0.002% |
| 66 | 7.570 | 2154 | 2171 | 2187 | rBV | 528802 | 936173 | 76.84% | 9.835% |
| 67 | 7.853 | 2245 | 2259 | 2283 | rBV | 102912 | 177488 | 14.57% | 1.865% |
| 68 | 8.062 | 2320 | 2324 | 2329 | rBV2 | 285 | 280 | 0.02% | 0.003% |
| 69 | 8.104 | 2334 | 2337 | 2342 | rVB2 | 278 | 253 | 0.02% | 0.003% |
| 70 | 8.181 | 2351 | 2361 | 2373 | rBV3 | 4501 | 7985 | 0.66% | 0.084% |
| 71 | 8.313 | 2387 | 2402 | 2446 | rBV | 379706 | 677663 | 55.62% | 7.119% |

LSC Area Percent Report

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Operator : MD/SY
Sample : J2959-03
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 4 Sample Multiplier: 1

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 : W:\HPCHEM1\MSVOA_U\METHOD\SOMULM051218WMA.M
Title : VOC Analysis

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 8.538 | 2470 | 2472 | 2477 | rVB3 | 498 | 306 | 0.03% | 0.003% |
| 73 | 8.612 | 2492 | 2495 | 2499 | rBV2 | 492 | 420 | 0.03% | 0.004% |
| 74 | 8.863 | 2571 | 2573 | 2578 | rBV2 | 145 | 151 | 0.01% | 0.002% |
| 75 | 9.094 | 2632 | 2645 | 2683 | rBV | 479168 | 813875 | 66.80% | 8.550% |
| 76 | 9.255 | 2689 | 2695 | 2696 | rBV | 1006 | 900 | 0.07% | 0.009% |
| 77 | 9.384 | 2725 | 2735 | 2747 | rVB4 | 3493 | 6108 | 0.50% | 0.064% |
| 78 | 9.541 | 2782 | 2784 | 2787 | rBV | 171 | 128 | 0.01% | 0.001% |
| 79 | 9.792 | 2853 | 2862 | 2872 | rVB6 | 2008 | 3569 | 0.29% | 0.037% |
| 80 | 10.027 | 2932 | 2935 | 2938 | rBV2 | 192 | 152 | 0.01% | 0.002% |
| 81 | 10.168 | 2976 | 2979 | 2984 | rBV2 | 280 | 227 | 0.02% | 0.002% |
| 82 | 10.239 | 2995 | 3001 | 3010 | rVB4 | 1735 | 2452 | 0.20% | 0.026% |
| 83 | 10.320 | 3023 | 3026 | 3028 | rBV | 206 | 122 | 0.01% | 0.001% |
| 84 | 10.435 | 3049 | 3062 | 3090 | rBV | 392355 | 631854 | 51.86% | 6.638% |
| 85 | 10.615 | 3109 | 3118 | 3127 | rBV4 | 4539 | 7668 | 0.63% | 0.081% |
| 86 | 10.683 | 3137 | 3139 | 3146 | rVB3 | 411 | 413 | 0.03% | 0.004% |
| 87 | 10.795 | 3171 | 3174 | 3179 | rBV2 | 165 | 198 | 0.02% | 0.002% |
| 88 | 10.844 | 3186 | 3189 | 3192 | rBV | 285 | 234 | 0.02% | 0.002% |
| 89 | 11.156 | 3281 | 3286 | 3294 | rVB | 946 | 1138 | 0.09% | 0.012% |
| 90 | 11.313 | 3331 | 3335 | 3341 | rBV2 | 236 | 285 | 0.02% | 0.003% |
| 91 | 11.426 | 3368 | 3370 | 3377 | rVB4 | 503 | 537 | 0.04% | 0.006% |
| 92 | 11.490 | 3377 | 3390 | 3410 | rBV | 455508 | 747463 | 61.35% | 7.853% |
| 93 | 11.680 | 3444 | 3449 | 3452 | rBV2 | 399 | 309 | 0.03% | 0.003% |
| 94 | 11.760 | 3468 | 3474 | 3484 | rBV5 | 1726 | 2674 | 0.22% | 0.028% |
| 95 | 11.866 | 3494 | 3507 | 3524 | rBV | 580002 | 930792 | 76.39% | 9.779% |
| 96 | 12.027 | 3552 | 3557 | 3561 | rBV2 | 525 | 617 | 0.05% | 0.006% |
| 97 | 12.210 | 3609 | 3614 | 3618 | rBV2 | 269 | 321 | 0.03% | 0.003% |
| 98 | 12.596 | 3730 | 3734 | 3735 | rBV | 299 | 216 | 0.02% | 0.002% |
| 99 | 13.442 | 3994 | 3997 | 4003 | rBV | 593 | 594 | 0.05% | 0.006% |
| 100 | 13.519 | 4016 | 4021 | 4027 | rBV3 | 551 | 737 | 0.06% | 0.008% |

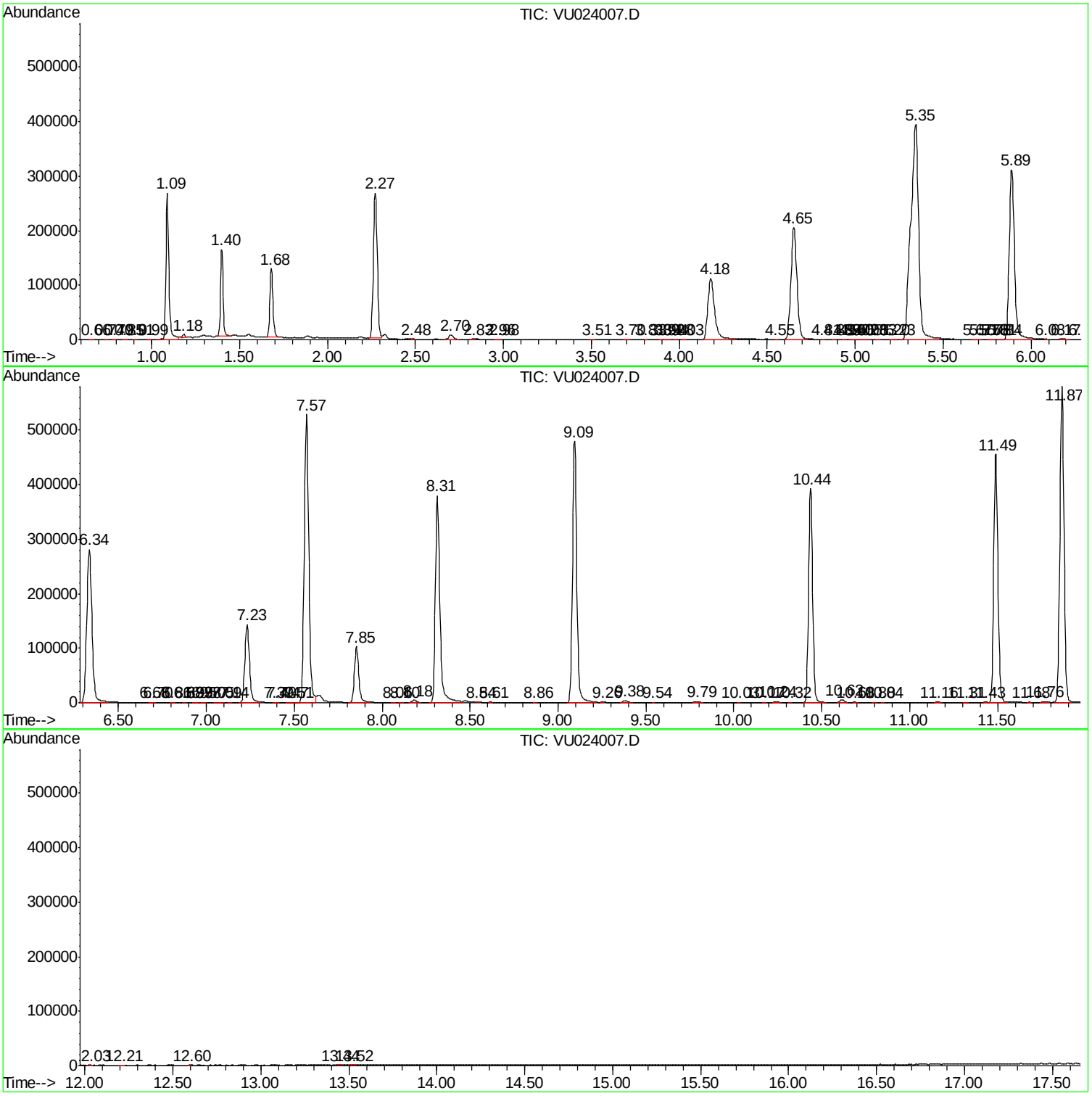
Sum of corrected areas: 9518600

LSC Report - Integrated Chromatogram

Data Path : W:\HPCHEM1\MSVOA_U\DATA\VU052218\
Data File : VU024007.D
Acq On : 22 May 2018 11:16
Operator : MD/SY
Sample : J2959-03
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Method : W:\HPCHEM1\MSVOA_U\METHOD\SOMULM051218WMA.M
Quant Title : VOC Analysis

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



Data Path : W:\HPCHEM1\MSVOA_U\DATA\VU052218\
Data File : VU024007.D
Acq On : 22 May 2018 11:16
Operator : MD/SY
Sample : J2959-03
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Method : W:\HPCHEM1\MSVOA_U\METHOD\SOMULM051218WMA.M
Quant Title : VOC Analysis

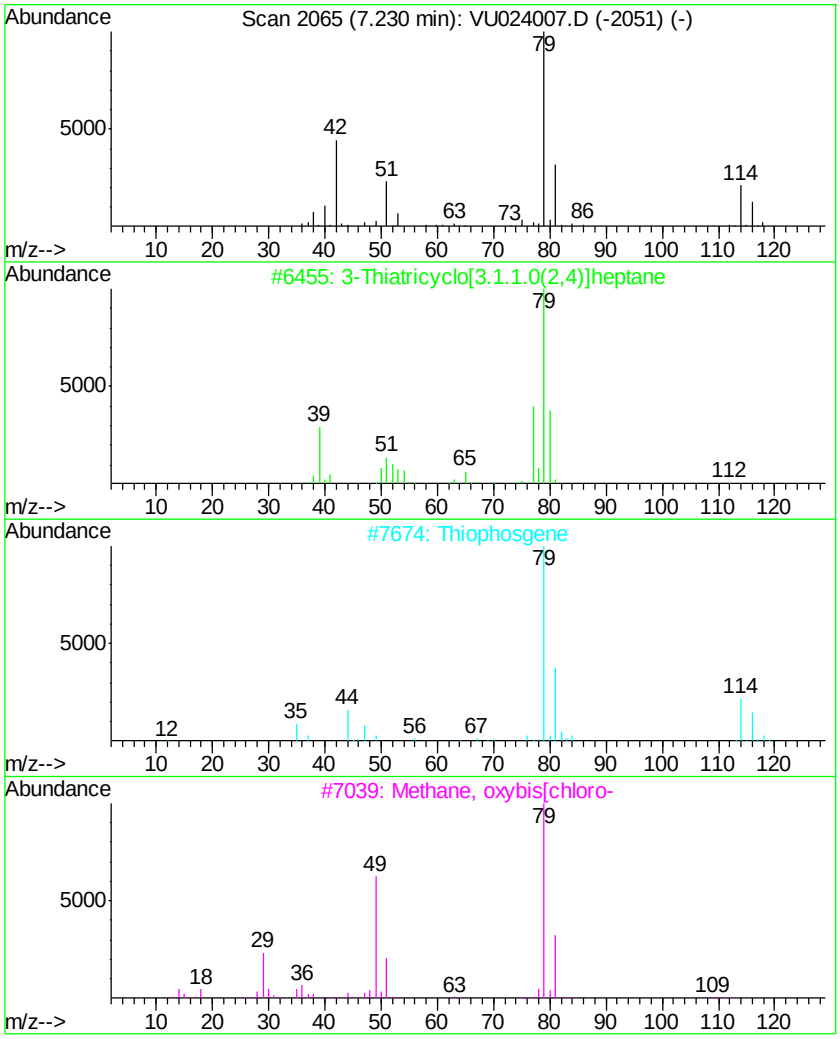
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

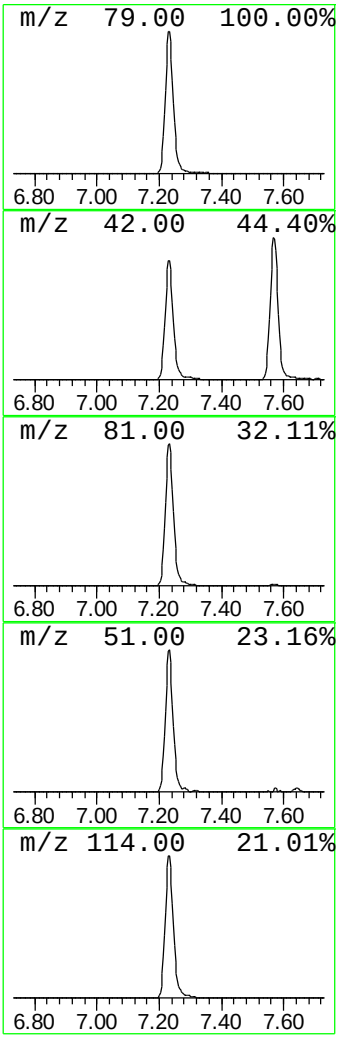
**********

Peak Number 2 unknown-01 Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.23 | 20.37 ug/L | 261547 | 1,4-Difluorobenzene | 5.89 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Thiatricyclo[3.1.1.0(2,4)]heptane | 112 | C6H8S | 1000221-37-0 | 32 |
| 2 | Thiophosgene | 114 | CCl2S | 000463-71-8 | 28 |
| 3 | Methane, oxybis[chloro- | 114 | C2H4Cl2O | 000542-88-1 | 25 |
| 4 | Methane, oxybis[chloro- | 114 | C2H4Cl2O | 000542-88-1 | 23 |
| 5 | 2-Propanol, 1,3-dichloro- | 128 | C3H6Cl2O | 000096-23-1 | 9 |



Tentatively Identified Compound (LSC) summary

Data Path : W:\HPCHEM1\MSVOA_U\DATA\VU052218\
Data File : VU024007.D
Acq On : 22 May 2018 11:16
Operator : MD/SY
Sample : J2959-03
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Method : W:\HPCHEM1\MSVOA_U\METHOD\SOMULM051218WMA.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 | 7.23 | 20.4 | ug/L | 261547 | 1 | 5.89 | 641930 | 50.0 |