LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW102519\
Data File : VW013747.D
Acq On : 25 Oct 2019 14:48
Operator : SY/VA
Sample : K5549-03
Misc : 4.99G/10ML/MSVOA W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** GAQ56

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_W\METHOD\SOM2WLM101819S.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 | 2.355 | 68 | 74 | 87 | rVB | 88861 | 166418 | 13.49% | 1.870% |
| 2 | 2.501 | 93 | 98 | 107 | rBV | 13961 | 31748 | 2.57% | 0.357% |
| 3 | 2.892 | 155 | 162 | 176 | rVB | 64890 | 151702 | 12.29% | 1.704% |
| 4 | 3.300 | 225 | 229 | 230 | rBV3 | 504 | 601 | 0.05% | 0.007% |
| 5 | 3.465 | 255 | 256 | 259 | rVB2 | 414 | 311 | 0.03% | 0.003% |
| 6 | 3.593 | 275 | 277 | 278 | rBV | 307 | 208 | 0.02% | 0.002% |
| 7 | 3.891 | 322 | 326 | 327 | rBV2 | 406 | 430 | 0.03% | 0.005% |
| 8 | 4.025 | 336 | 348 | 361 | rBV | 140200 | 441426 | 35.77% | 4.959% |
| 9 | 4.300 | 391 | 393 | 396 | rBV2 | 213 | 275 | 0.02% | 0.003% |
| 10 | 4.367 | 400 | 404 | 405 | rBV2 | 305 | 407 | 0.03% | 0.005% |
| 11 | 4.562 | 433 | 436 | 439 | rBV2 | 271 | 331 | 0.03% | 0.004% |
| 12 | 4.672 | 449 | 454 | 461 | rVV | 1320 | 3382 | 0.27% | 0.038% |
| 13 | 4.922 | 485 | 495 | 508 | rVB2 | 7095 | 24667 | 2.00% | 0.277% |
| 14 | 5.062 | 516 | 518 | 521 | rBV2 | 212 | 260 | 0.02% | 0.003% |
| 15 | 5.098 | 523 | 524 | 527 | rBV2 | 321 | 219 | 0.02% | 0.002% |
| 16 | 5.257 | 547 | 550 | 552 | rBV2 | 228 | 320 | 0.03% | 0.004% |
| 17 | 5.306 | 555 | 558 | 559 | rBV2 | 438 | 389 | 0.03% | 0.004% |
| 18 | 5.348 | 564 | 565 | 568 | rBV2 | 342 | 266 | 0.02% | 0.003% |
| 19 | 5.617 | 607 | 609 | 611 | rBV2 | 287 | 193 | 0.02% | 0.002% |
| 20 | 5.665 | 615 | 617 | 620 | rBV2 | 434 | 354 | 0.03% | 0.004% |
| 21 | 5.781 | 630 | 636 | 640 | rBV3 | 1206 | 2841 | 0.23% | 0.032% |
| 22 | 5.873 | 650 | 651 | 654 | rBV2 | 217 | 214 | 0.02% | 0.002% |
| 23 | 5.903 | 654 | 656 | 657 | rBV | 435 | 199 | 0.02% | 0.002% |
| 24 | 5.934 | 658 | 661 | 663 | rBV2 | 1335 | 1667 | 0.14% | 0.019% |
| 25 | 6.031 | 673 | 677 | 679 | rBV2 | 412 | 644 | 0.05% | 0.007% |
| 26 | 6.056 | 679 | 681 | 685 | rVV2 | 383 | 329 | 0.03% | 0.004% |
| 27 | 6.104 | 687 | 689 | 694 | rVB3 | 464 | 660 | 0.05% | 0.007% |
| 28 | 6.153 | 694 | 697 | 700 | rVB2 | 335 | 382 | 0.03% | 0.004% |
| 29 | 6.178 | 700 | 701 | 704 | rBV2 | 245 | 247 | 0.02% | 0.003% |
| 30 | 6.257 | 712 | 714 | 718 | rBV3 | 423 | 564 | 0.05% | 0.006% |
| 31 | 6.287 | 718 | 719 | 723 | rVB2 | 442 | 407 | 0.03% | 0.005% |
| 32 | 6.318 | 723 | 724 | 725 | rBV | 390 | 205 | 0.02% | 0.002% |
| 33 | 6.513 | 754 | 756 | 758 | rBV | 302 | 197 | 0.02% | 0.002% |
| 34 | 6.568 | 764 | 765 | 769 | rVB2 | 282 | 324 | 0.03% | 0.004% |

LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW102519\
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Operator : SY/VA
Sample : K5549-03
Misc : 4.99G/10ML/MSVOA W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** GAQ56

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_W\METHOD\SOM2WLM101819S.M
Title : VOC Analysis

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 6.610 | 769 | 772 | 773 | rBV2 | 375 | 350 | 0.03% | 0.004% |
| 36 | 6.696 | 785 | 786 | 790 | rBV2 | 218 | 222 | 0.02% | 0.002% |
| 37 | 6.854 | 811 | 812 | 814 | rVV | 326 | 236 | 0.02% | 0.003% |
| 38 | 6.897 | 814 | 819 | 827 | rVV6 | 1584 | 4136 | 0.34% | 0.046% |
| 39 | 7.080 | 840 | 849 | 864 | rBV | 40298 | 127194 | 10.31% | 1.429% |
| 40 | 7.250 | 870 | 877 | 892 | rVB | 72814 | 184033 | 14.91% | 2.068% |
| 41 | 7.647 | 931 | 942 | 956 | rVB | 199458 | 491232 | 39.81% | 5.519% |
| 42 | 7.811 | 966 | 969 | 972 | rBV2 | 197 | 259 | 0.02% | 0.003% |
| 43 | 7.836 | 972 | 973 | 975 | rBV | 297 | 241 | 0.02% | 0.003% |
| 44 | 7.891 | 981 | 982 | 987 | rVB2 | 317 | 312 | 0.03% | 0.004% |
| 45 | 7.933 | 987 | 989 | 991 | rBV | 421 | 569 | 0.05% | 0.006% |
| 46 | 8.031 | 1003 | 1005 | 1008 | rBV2 | 306 | 317 | 0.03% | 0.004% |
| 47 | 8.275 | 1035 | 1045 | 1063 | rVV2 | 425039 | 1233976 | 100.00% | 13.864% |
| 48 | 8.549 | 1086 | 1090 | 1097 | rVB3 | 1765 | 3494 | 0.28% | 0.039% |
| 49 | 8.708 | 1110 | 1116 | 1123 | rBV6 | 1854 | 4335 | 0.35% | 0.049% |
| 50 | 8.842 | 1130 | 1138 | 1152 | rBV | 368817 | 731070 | 59.25% | 8.214% |
| 51 | 9.000 | 1162 | 1164 | 1167 | rBV2 | 206 | 247 | 0.02% | 0.003% |
| 52 | 9.049 | 1168 | 1172 | 1175 | rVV3 | 829 | 1813 | 0.15% | 0.020% |
| 53 | 9.073 | 1175 | 1176 | 1181 | rVV4 | 1502 | 1850 | 0.15% | 0.021% |
| 54 | 9.275 | 1200 | 1209 | 1219 | rBV | 278689 | 561174 | 45.48% | 6.305% |
| 55 | 9.415 | 1228 | 1232 | 1238 | rVB3 | 2474 | 4378 | 0.35% | 0.049% |
| 56 | 9.506 | 1246 | 1247 | 1249 | rVB | 423 | 198 | 0.02% | 0.002% |
| 57 | 9.610 | 1262 | 1264 | 1266 | rVB | 496 | 309 | 0.03% | 0.003% |
| 58 | 9.659 | 1269 | 1272 | 1276 | rBV2 | 623 | 1065 | 0.09% | 0.012% |
| 59 | 9.939 | 1315 | 1318 | 1319 | rBV | 293 | 277 | 0.02% | 0.003% |
| 60 | 10.037 | 1326 | 1334 | 1345 | rBV | 153539 | 281357 | 22.80% | 3.161% |
| 61 | 10.323 | 1373 | 1381 | 1388 | rBV | 595307 | 1043635 | 84.57% | 11.725% |
| 62 | 10.390 | 1388 | 1392 | 1400 | rVB | 23821 | 41956 | 3.40% | 0.471% |
| 63 | 10.506 | 1407 | 1411 | 1414 | rBV2 | 531 | 834 | 0.07% | 0.009% |
| 64 | 10.579 | 1416 | 1423 | 1430 | rVV | 101446 | 178816 | 14.49% | 2.009% |
| 65 | 10.701 | 1437 | 1443 | 1452 | rVB2 | 14399 | 25682 | 2.08% | 0.289% |
| 66 | 10.921 | 1473 | 1479 | 1485 | rBV | 158815 | 272583 | 22.09% | 3.062% |
| 67 | 11.073 | 1498 | 1504 | 1512 | rVB3 | 9026 | 16675 | 1.35% | 0.187% |
| 68 | 11.317 | 1541 | 1544 | 1545 | rBV2 | 328 | 255 | 0.02% | 0.003% |
| 69 | 11.341 | 1545 | 1548 | 1549 | rVB2 | 338 | 282 | 0.02% | 0.003% |
| 70 | 11.390 | 1554 | 1556 | 1557 | rBV | 304 | 202 | 0.02% | 0.002% |
| 71 | 11.628 | 1588 | 1595 | 1607 | rBV | 506321 | 873201 | 70.76% | 9.810% |

LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW102519\
Data File : VW013747.D
Acq On : 25 Oct 2019 14:48
Operator : SY/VA
Sample : K5549-03
Misc : 4.99G/10ML/MSVOA W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** GAQ56

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_W\METHOD\SOM2WLM101819S.M
Title : VOC Analysis

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 11.847 | 1626 | 1631 | 1638 | rBV9 | 2103 | 5114 | 0.41% | 0.057% |
| 73 | 11.902 | 1638 | 1640 | 1642 | rBV | 832 | 693 | 0.06% | 0.008% |
| 74 | 12.091 | 1670 | 1671 | 1672 | rBV | 414 | 223 | 0.02% | 0.003% |
| 75 | 12.164 | 1679 | 1683 | 1687 | rBV4 | 1008 | 1453 | 0.12% | 0.016% |
| 76 | 12.237 | 1689 | 1695 | 1705 | rVV | 63382 | 105059 | 8.51% | 1.180% |
| 77 | 12.335 | 1708 | 1711 | 1716 | rVV4 | 2082 | 3039 | 0.25% | 0.034% |
| 78 | 12.372 | 1716 | 1717 | 1720 | rVB2 | 417 | 259 | 0.02% | 0.003% |
| 79 | 12.609 | 1750 | 1756 | 1762 | rVB2 | 21935 | 36378 | 2.95% | 0.409% |
| 80 | 12.689 | 1762 | 1769 | 1778 | rVB | 222441 | 374038 | 30.31% | 4.202% |
| 81 | 12.749 | 1778 | 1779 | 1780 | rBV | 430 | 292 | 0.02% | 0.003% |
| 82 | 12.932 | 1805 | 1809 | 1811 | rVV2 | 1482 | 1964 | 0.16% | 0.022% |
| 83 | 12.969 | 1813 | 1815 | 1820 | rVB3 | 1893 | 2192 | 0.18% | 0.025% |
| 84 | 13.048 | 1826 | 1828 | 1834 | rVB3 | 561 | 703 | 0.06% | 0.008% |
| 85 | 13.109 | 1834 | 1838 | 1842 | rVB3 | 286 | 560 | 0.05% | 0.006% |
| 86 | 13.152 | 1842 | 1845 | 1848 | rBV2 | 385 | 508 | 0.04% | 0.006% |
| 87 | 13.182 | 1848 | 1850 | 1852 | rBV | 385 | 378 | 0.03% | 0.004% |
| 88 | 13.371 | 1879 | 1881 | 1882 | rBV | 520 | 401 | 0.03% | 0.005% |
| 89 | 13.390 | 1882 | 1884 | 1889 | rVB3 | 1581 | 2241 | 0.18% | 0.025% |
| 90 | 13.475 | 1894 | 1898 | 1900 | rBV4 | 985 | 1146 | 0.09% | 0.013% |
| 91 | 13.554 | 1903 | 1911 | 1920 | rBV | 481867 | 782369 | 63.40% | 8.790% |
| 92 | 13.652 | 1923 | 1927 | 1931 | rVB3 | 6332 | 9776 | 0.79% | 0.110% |
| 93 | 13.853 | 1952 | 1960 | 1968 | rBV | 383445 | 638878 | 51.77% | 7.178% |
| 94 | 14.072 | 1992 | 1996 | 2000 | rBV2 | 4128 | 5918 | 0.48% | 0.066% |
| 95 | 14.328 | 2034 | 2038 | 2042 | rBV5 | 1568 | 2445 | 0.20% | 0.027% |
| 96 | 14.414 | 2050 | 2052 | 2053 | rBV | 361 | 227 | 0.02% | 0.003% |
| 97 | 14.530 | 2067 | 2071 | 2073 | rBV2 | 734 | 964 | 0.08% | 0.011% |
| 98 | 15.481 | 2225 | 2227 | 2228 | rBV | 831 | 542 | 0.04% | 0.006% |
| 99 | 15.615 | 2248 | 2249 | 2252 | rBV2 | 741 | 684 | 0.06% | 0.008% |
| 100 | 16.060 | 2320 | 2322 | 2323 | rBV2 | 925 | 798 | 0.06% | 0.009% |

Sum of corrected areas: 8900794

LSC Report - Integrated Chromatogram

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW102519\
Data File : VW013747.D
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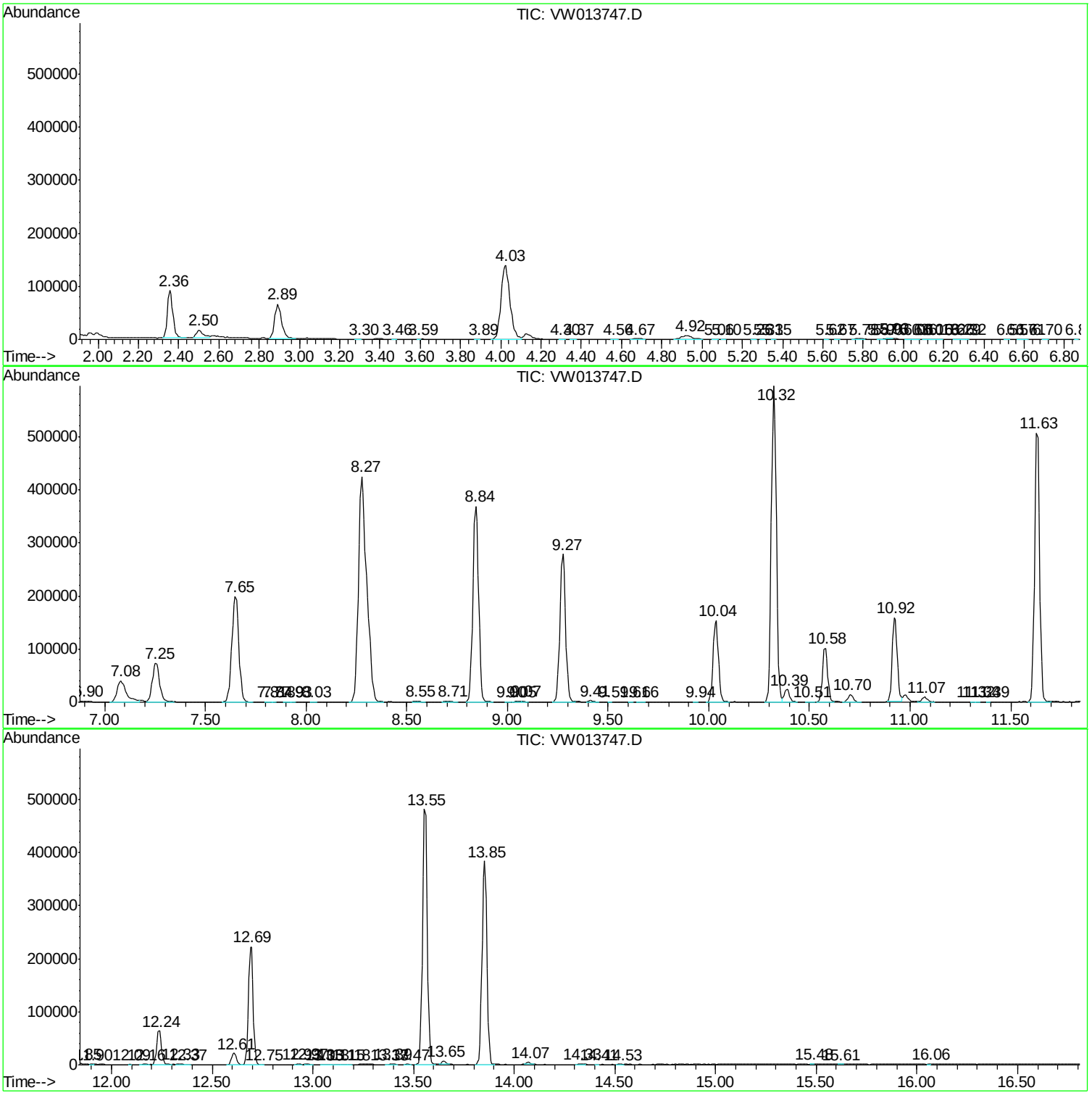
Operator : SY/VA
Sample : K5549-03
Misc : 4.99G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** GAQ56

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM101819S.M
Quant Title : VOC Analysis

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



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW102519\
Data File : VW013747.D
Acq On : 25 Oct 2019 14:48
Operator : SY/VA
Sample : K5549-03
Misc : 4.99G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** GAQ56

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM101819S.M
Quant Title : VOC Analysis

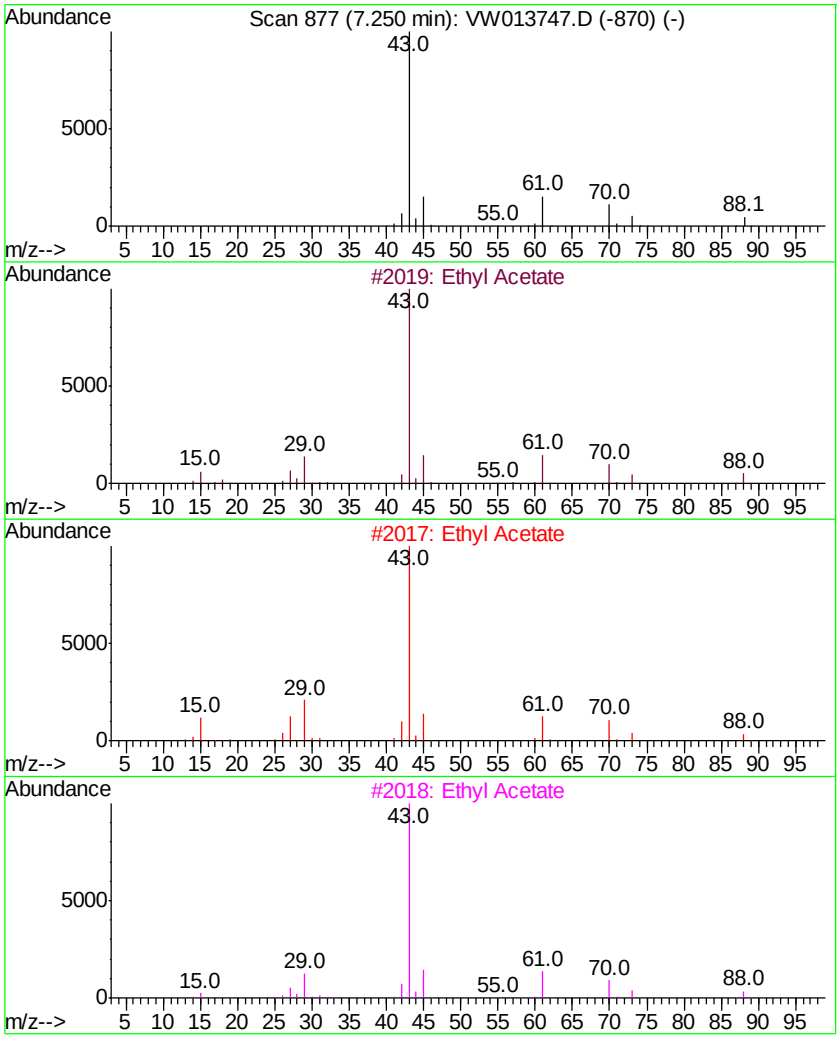
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

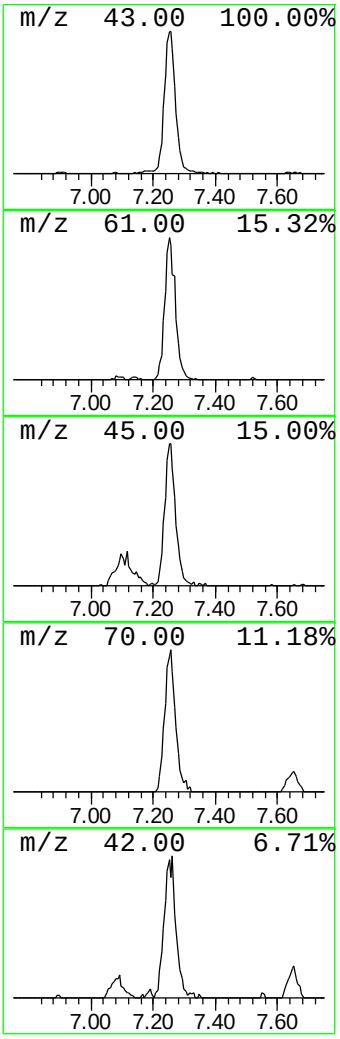
**********

Peak Number 1 Ethyl Acetate Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.25 | 6.29 ug/L | 184033 | 1,4-Difluorobenzene | 8.84 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Ethyl Acetate | 88 | C4H8O2 | 000141-78-6 | 91 |
| 2 | Ethyl Acetate | 88 | C4H8O2 | 000141-78-6 | 90 |
| 3 | Ethyl Acetate | 88 | C4H8O2 | 000141-78-6 | 90 |
| 4 | Ethyl Acetate | 88 | C4H8O2 | 000141-78-6 | 83 |
| 5 | Propanoic acid, 2-methyl- | 88 | C4H8O2 | 000079-31-2 | 38 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW102519\
Data File : VW013747.D
Acq On : 25 Oct 2019 14:48
Operator : SY/VA
Sample : K5549-03
Misc : 4.99G/10ML/MSVOA W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** GAQ56

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM101819S.M
Quant Title : VOC Analysis

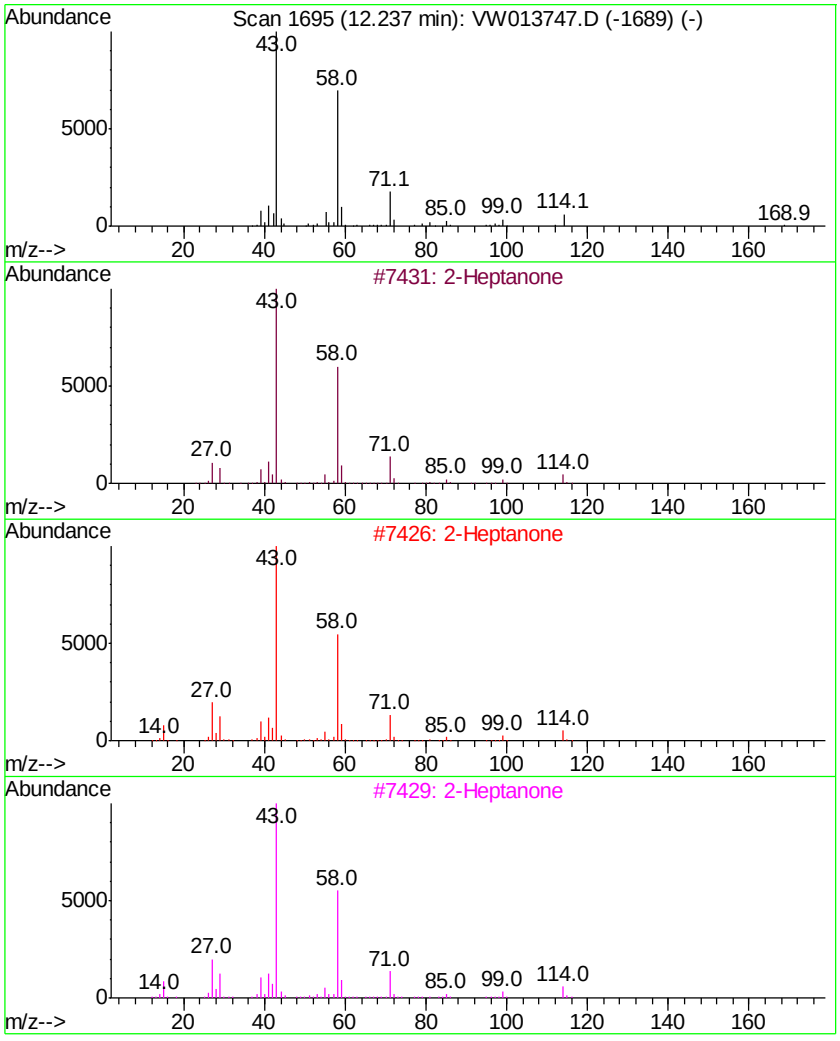
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

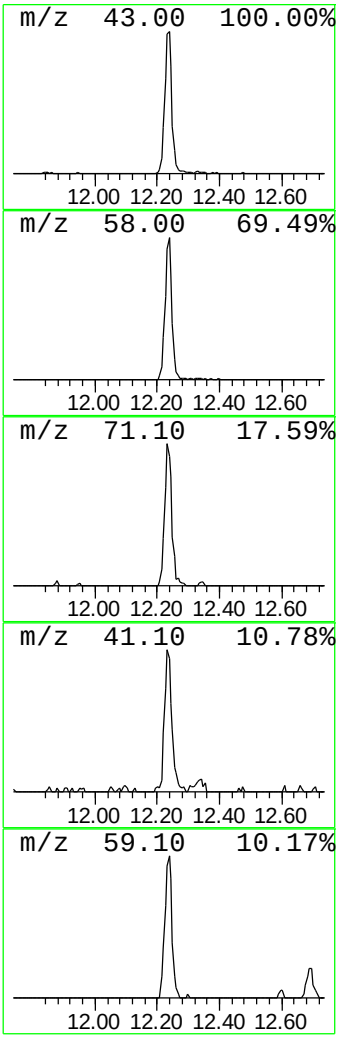
**********

Peak Number 3 2-Heptanone Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.24 | 3.01 ug/L | 105059 | Chlorobenzene-d5 | 11.63 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Heptanone | 114 | C7H14O | 000110-43-0 | 91 |
| 2 | 2-Heptanone | 114 | C7H14O | 000110-43-0 | 91 |
| 3 | 2-Heptanone | 114 | C7H14O | 000110-43-0 | 91 |
| 4 | 2-Hexanone, 5-methyl- | 114 | C7H14O | 000110-12-3 | 83 |
| 5 | 2-Heptanone | 114 | C7H14O | 000110-43-0 | 80 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW102519\
Data File : VW013747.D
Acq On : 25 Oct 2019 14:48
Operator : SY/VA
Sample : K5549-03
Misc : 4.99G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** GAQ56

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM101819S.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 |
| Ethyl Acetate | 7.25 | 6.3 | ug/L | 184033 | 1 | 8.84 | 731070 | 25.0 |
| 2-Heptanone | 12.24 | 3.0 | ug/L | 105059 | 2 | 11.63 | 873201 | 25.0 |