LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092319\
Data File : VU034754.D
Acq On : 23 Sep 2019 23:40
Operator : JC/SP
Sample : K4932-11
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 31 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BFDJ9

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\SOMULM091919WMA.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 | 1.177 | 21 | 27 | 33 | rBV | 10955 | 11133 | 0.29% | 0.036% |
| 2 | 1.334 | 69 | 76 | 77 | rBV6 | 5357 | 6156 | 0.16% | 0.020% |
| 3 | 1.392 | 85 | 94 | 107 | rBV | 342922 | 376258 | 9.80% | 1.210% |
| 4 | 1.540 | 133 | 140 | 151 | rVB3 | 46776 | 64887 | 1.69% | 0.209% |
| 5 | 1.672 | 173 | 181 | 195 | rVB | 276084 | 353183 | 9.20% | 1.136% |
| 6 | 2.257 | 352 | 363 | 371 | rBV | 515340 | 789423 | 20.56% | 2.539% |
| 7 | 2.305 | 371 | 378 | 395 | rVB | 233452 | 375827 | 9.79% | 1.209% |
| 8 | 2.498 | 436 | 438 | 443 | rVB4 | 2020 | 1327 | 0.03% | 0.004% |
| 9 | 2.601 | 465 | 470 | 482 | rVB | 5146 | 8095 | 0.21% | 0.026% |
| 10 | 2.685 | 482 | 496 | 514 | rBV | 151075 | 273989 | 7.14% | 0.881% |
| 11 | 2.923 | 566 | 570 | 575 | rVV3 | 2143 | 2956 | 0.08% | 0.010% |
| 12 | 2.948 | 576 | 578 | 581 | rVB4 | 3077 | 1778 | 0.05% | 0.006% |
| 13 | 2.997 | 590 | 593 | 595 | rBV3 | 2339 | 1736 | 0.05% | 0.006% |
| 14 | 3.084 | 618 | 620 | 629 | rVB7 | 2011 | 2154 | 0.06% | 0.007% |
| 15 | 3.154 | 634 | 642 | 645 | rBV6 | 1329 | 1480 | 0.04% | 0.005% |
| 16 | 3.579 | 769 | 774 | 775 | rBV5 | 1558 | 1304 | 0.03% | 0.004% |
| 17 | 3.855 | 856 | 860 | 863 | rBV3 | 1514 | 1394 | 0.04% | 0.004% |
| 18 | 3.952 | 886 | 890 | 894 | rBV4 | 1605 | 1738 | 0.05% | 0.006% |
| 19 | 4.151 | 938 | 952 | 972 | rBV | 281044 | 727701 | 18.95% | 2.340% |
| 20 | 4.624 | 1077 | 1099 | 1121 | rBV | 410639 | 984873 | 25.65% | 3.167% |
| 21 | 4.971 | 1202 | 1207 | 1213 | rVB7 | 2573 | 3155 | 0.08% | 0.010% |
| 22 | 5.315 | 1290 | 1314 | 1351 | rBV2 | 852590 | 2562320 | 66.73% | 8.241% |
| 23 | 5.530 | 1368 | 1381 | 1407 | rVB | 100987 | 222624 | 5.80% | 0.716% |
| 24 | 5.862 | 1471 | 1484 | 1506 | rBV | 685239 | 1401690 | 36.50% | 4.508% |
| 25 | 6.308 | 1607 | 1623 | 1640 | rBV | 597672 | 1202105 | 31.31% | 3.866% |
| 26 | 6.405 | 1647 | 1653 | 1670 | rVV3 | 12429 | 30129 | 0.78% | 0.097% |
| 27 | 6.479 | 1674 | 1676 | 1679 | rVB3 | 3318 | 1710 | 0.04% | 0.005% |
| 28 | 6.524 | 1686 | 1690 | 1693 | rBV3 | 2480 | 2499 | 0.07% | 0.008% |
| 29 | 6.562 | 1694 | 1702 | 1705 | rBV | 17408 | 24086 | 0.63% | 0.077% |
| 30 | 6.685 | 1727 | 1740 | 1767 | rBV | 2111549 | 3839977 | 100.00% | 12.349% |
| 31 | 7.206 | 1890 | 1902 | 1926 | rBV | 343048 | 641555 | 16.71% | 2.063% |
| 32 | 7.398 | 1950 | 1962 | 1971 | rBV | 265923 | 459726 | 11.97% | 1.478% |
| 33 | 7.543 | 1993 | 2007 | 2023 | rBV | 1166862 | 2041318 | 53.16% | 6.565% |
| 34 | 7.617 | 2024 | 2030 | 2044 | rVB2 | 30568 | 59675 | 1.55% | 0.192% |

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Acq On : 23 Sep 2019 23:40
Operator : JC/SP
Sample : K4932-11
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 31 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BFDJ9

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\SOMULM091919WMA.M
Title : VOC Analysis

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 7.755 | 2068 | 2073 | 2084 | rVB9 | 5870 | 9969 | 0.26% | 0.032% |
| 36 | 7.829 | 2084 | 2096 | 2113 | rBV2 | 297918 | 550128 | 14.33% | 1.769% |
| 37 | 8.135 | 2177 | 2191 | 2205 | rBV | 484619 | 820063 | 21.36% | 2.637% |
| 38 | 8.212 | 2207 | 2215 | 2218 | rVV3 | 33373 | 50037 | 1.30% | 0.161% |
| 39 | 8.241 | 2219 | 2224 | 2229 | rVV2 | 61891 | 90340 | 2.35% | 0.291% |
| 40 | 8.289 | 2229 | 2239 | 2262 | rVV | 1099494 | 1983623 | 51.66% | 6.379% |
| 41 | 8.395 | 2262 | 2272 | 2299 | rVV | 789538 | 1299457 | 33.84% | 4.179% |
| 42 | 8.508 | 2300 | 2307 | 2321 | rVB2 | 33247 | 60368 | 1.57% | 0.194% |
| 43 | 8.813 | 2398 | 2402 | 2404 | rBV4 | 2312 | 1456 | 0.04% | 0.005% |
| 44 | 8.884 | 2411 | 2424 | 2446 | rBV | 1019237 | 1614581 | 42.05% | 5.193% |
| 45 | 9.067 | 2462 | 2481 | 2507 | rVV | 1036697 | 1784159 | 46.46% | 5.738% |
| 46 | 9.231 | 2525 | 2532 | 2540 | rVB5 | 9672 | 16653 | 0.43% | 0.054% |
| 47 | 9.267 | 2540 | 2543 | 2545 | rBV4 | 2295 | 1553 | 0.04% | 0.005% |
| 48 | 9.324 | 2552 | 2561 | 2562 | rBV7 | 3985 | 4773 | 0.12% | 0.015% |
| 49 | 9.353 | 2562 | 2570 | 2585 | rVB2 | 26448 | 49978 | 1.30% | 0.161% |
| 50 | 9.469 | 2601 | 2606 | 2608 | rBV5 | 1922 | 1597 | 0.04% | 0.005% |
| 51 | 9.482 | 2608 | 2610 | 2616 | rVB5 | 2057 | 1774 | 0.05% | 0.006% |
| 52 | 9.585 | 2634 | 2642 | 2660 | rVB | 28259 | 52247 | 1.36% | 0.168% |
| 53 | 9.749 | 2682 | 2693 | 2707 | rBV3 | 118273 | 212799 | 5.54% | 0.684% |
| 54 | 9.919 | 2733 | 2746 | 2748 | rBV8 | 7557 | 11921 | 0.31% | 0.038% |
| 55 | 9.967 | 2757 | 2761 | 2768 | rVB8 | 4040 | 4657 | 0.12% | 0.015% |
| 56 | 10.154 | 2812 | 2819 | 2827 | rVB8 | 4099 | 5720 | 0.15% | 0.018% |
| 57 | 10.202 | 2827 | 2834 | 2835 | rBV6 | 1762 | 1722 | 0.04% | 0.006% |
| 58 | 10.302 | 2860 | 2865 | 2868 | rBV7 | 2161 | 2202 | 0.06% | 0.007% |
| 59 | 10.408 | 2882 | 2898 | 2924 | rBV | 775265 | 1269249 | 33.05% | 4.082% |
| 60 | 10.543 | 2936 | 2940 | 2941 | rBV3 | 3033 | 1825 | 0.05% | 0.006% |
| 61 | 10.569 | 2943 | 2948 | 2950 | rBV6 | 2660 | 2534 | 0.07% | 0.008% |
| 62 | 10.662 | 2964 | 2977 | 2981 | rBV4 | 8334 | 14725 | 0.38% | 0.047% |
| 63 | 10.755 | 2999 | 3006 | 3012 | rVB8 | 6056 | 7747 | 0.20% | 0.025% |
| 64 | 10.797 | 3012 | 3019 | 3022 | rBV8 | 3467 | 4361 | 0.11% | 0.014% |
| 65 | 10.903 | 3043 | 3052 | 3057 | rBV9 | 4966 | 8644 | 0.23% | 0.028% |
| 66 | 10.955 | 3065 | 3068 | 3080 | rVB9 | 5134 | 8554 | 0.22% | 0.028% |
| 67 | 11.025 | 3087 | 3090 | 3094 | rVB5 | 2501 | 2264 | 0.06% | 0.007% |
| 68 | 11.057 | 3094 | 3100 | 3101 | rBV6 | 2375 | 1853 | 0.05% | 0.006% |
| 69 | 11.128 | 3112 | 3122 | 3137 | rVB4 | 23593 | 43084 | 1.12% | 0.139% |
| 70 | 11.234 | 3150 | 3155 | 3156 | rBV5 | 3553 | 2690 | 0.07% | 0.009% |
| 71 | 11.250 | 3156 | 3160 | 3162 | rBV4 | 3868 | 3317 | 0.09% | 0.011% |

LSC Area Percent Report

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Acq On : 23 Sep 2019 23:40
Operator : JC/SP
Sample : K4932-11
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 31 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BFDJ9

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\SOMULM091919WMA.M
Title : VOC Analysis

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 11.318 | 3171 | 3181 | 3201 | rBV7 | 60062 | 174348 | 4.54% | 0.561% |
| 73 | 11.459 | 3213 | 3225 | 3246 | rBV | 1015261 | 1622994 | 42.27% | 5.220% |
| 74 | 11.736 | 3300 | 3311 | 3324 | rBV | 146662 | 329870 | 8.59% | 1.061% |
| 75 | 11.836 | 3331 | 3342 | 3365 | rVB | 1113676 | 1993909 | 51.93% | 6.412% |
| 76 | 12.945 | 3681 | 3687 | 3693 | rBV8 | 6936 | 11397 | 0.30% | 0.037% |
| 77 | 13.077 | 3720 | 3728 | 3730 | rBV9 | 10102 | 13569 | 0.35% | 0.044% |
| 78 | 13.170 | 3753 | 3757 | 3761 | rBV6 | 2989 | 3519 | 0.09% | 0.011% |
| 79 | 13.273 | 3783 | 3789 | 3794 | rBV10 | 6613 | 10533 | 0.27% | 0.034% |
| 80 | 13.373 | 3814 | 3820 | 3822 | rBV7 | 5785 | 6647 | 0.17% | 0.021% |
| 81 | 13.601 | 3881 | 3891 | 3904 | rBV7 | 23781 | 58160 | 1.51% | 0.187% |
| 82 | 13.723 | 3921 | 3929 | 3942 | rVB2 | 79544 | 130856 | 3.41% | 0.421% |
| 83 | 13.839 | 3961 | 3965 | 3968 | rBV5 | 8146 | 8478 | 0.22% | 0.027% |
| 84 | 14.437 | 4148 | 4151 | 4153 | rBV3 | 2543 | 1737 | 0.05% | 0.006% |
| 85 | 14.514 | 4170 | 4175 | 4188 | rVB3 | 9368 | 15604 | 0.41% | 0.050% |
| 86 | 14.562 | 4188 | 4190 | 4195 | rVB6 | 3453 | 2633 | 0.07% | 0.008% |
| 87 | 14.594 | 4196 | 4200 | 4202 | rBV5 | 3065 | 2205 | 0.06% | 0.007% |
| 88 | 14.620 | 4202 | 4208 | 4215 | rBV10 | 8094 | 11762 | 0.31% | 0.038% |
| 89 | 14.858 | 4273 | 4282 | 4296 | rBV | 59467 | 100107 | 2.61% | 0.322% |
| 90 | 15.009 | 4327 | 4329 | 4331 | rBV3 | 2609 | 1533 | 0.04% | 0.005% |
| 91 | 15.041 | 4331 | 4339 | 4357 | rVB3 | 38491 | 70921 | 1.85% | 0.228% |
| 92 | 15.266 | 4407 | 4409 | 4411 | rBV3 | 2388 | 1367 | 0.04% | 0.004% |
| 93 | 15.324 | 4424 | 4427 | 4428 | rBV3 | 2983 | 1752 | 0.05% | 0.006% |
| 94 | 15.414 | 4452 | 4455 | 4458 | rBV6 | 2889 | 1861 | 0.05% | 0.006% |
| 95 | 15.517 | 4485 | 4487 | 4490 | rBV4 | 2095 | 1487 | 0.04% | 0.005% |
| 96 | 15.784 | 4565 | 4570 | 4571 | rBV5 | 3762 | 3151 | 0.08% | 0.010% |
| 97 | 16.022 | 4641 | 4644 | 4645 | rBV3 | 4392 | 2538 | 0.07% | 0.008% |
| 98 | 16.041 | 4645 | 4650 | 4657 | rVV9 | 9780 | 14960 | 0.39% | 0.048% |
| 99 | 16.167 | 4686 | 4689 | 4691 | rBV4 | 2647 | 1962 | 0.05% | 0.006% |
| 100 | 17.334 | 5044 | 5052 | 5056 | rBV4 | 6688 | 11749 | 0.31% | 0.038% |

Sum of corrected areas: 31094194

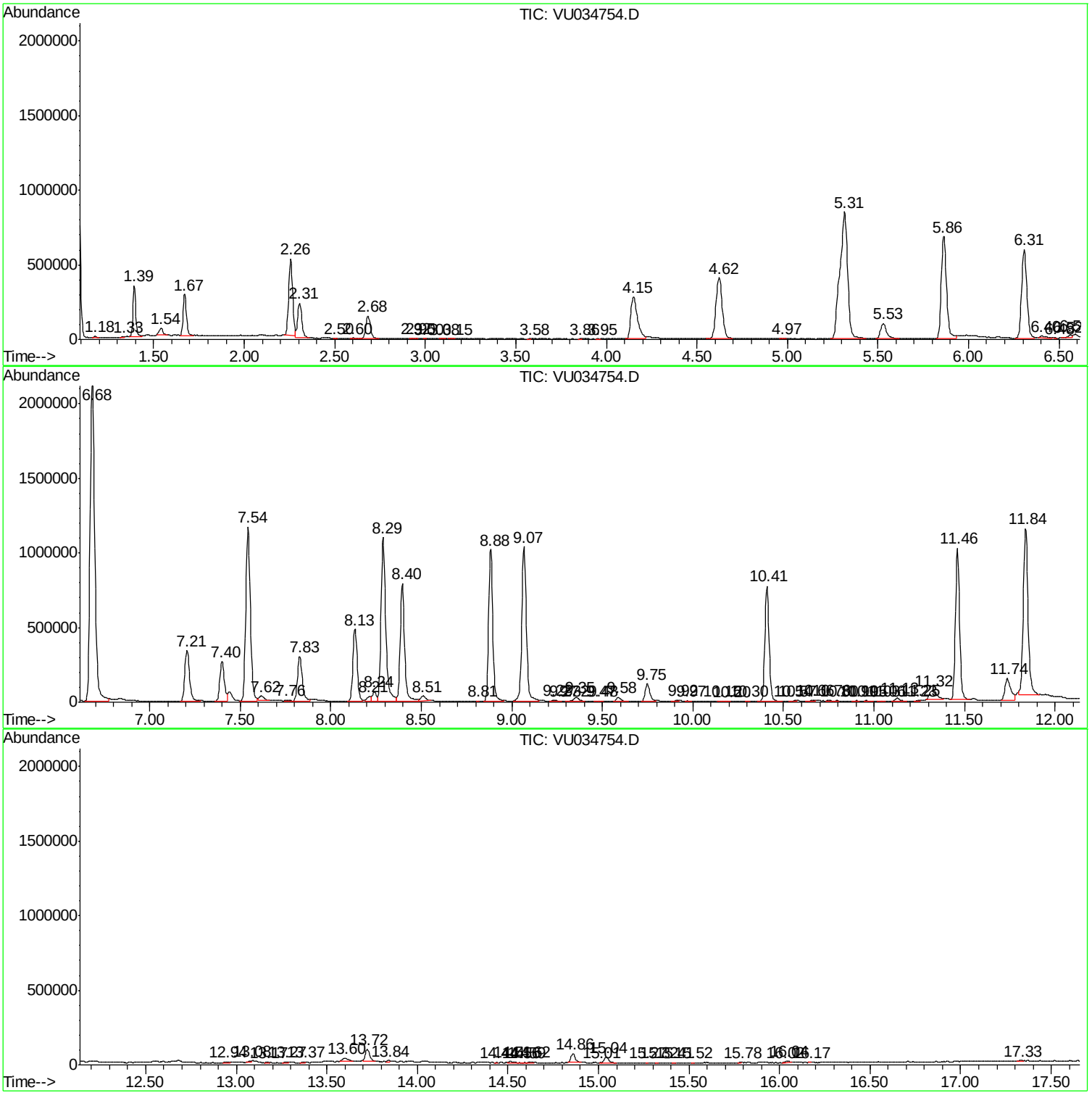
LSC Report - Integrated Chromatogram

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092319\
Data File : VU034754.D
Acq On : 23 Sep 2019 23:40
Operator : JC/SP
Sample : K4932-11
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 31 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
BFDJ9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.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\VU092319\
Data File : VU034754.D
Acq On : 23 Sep 2019 23:40
Operator : JC/SP
Sample : K4932-11
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 31 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BFDJ9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

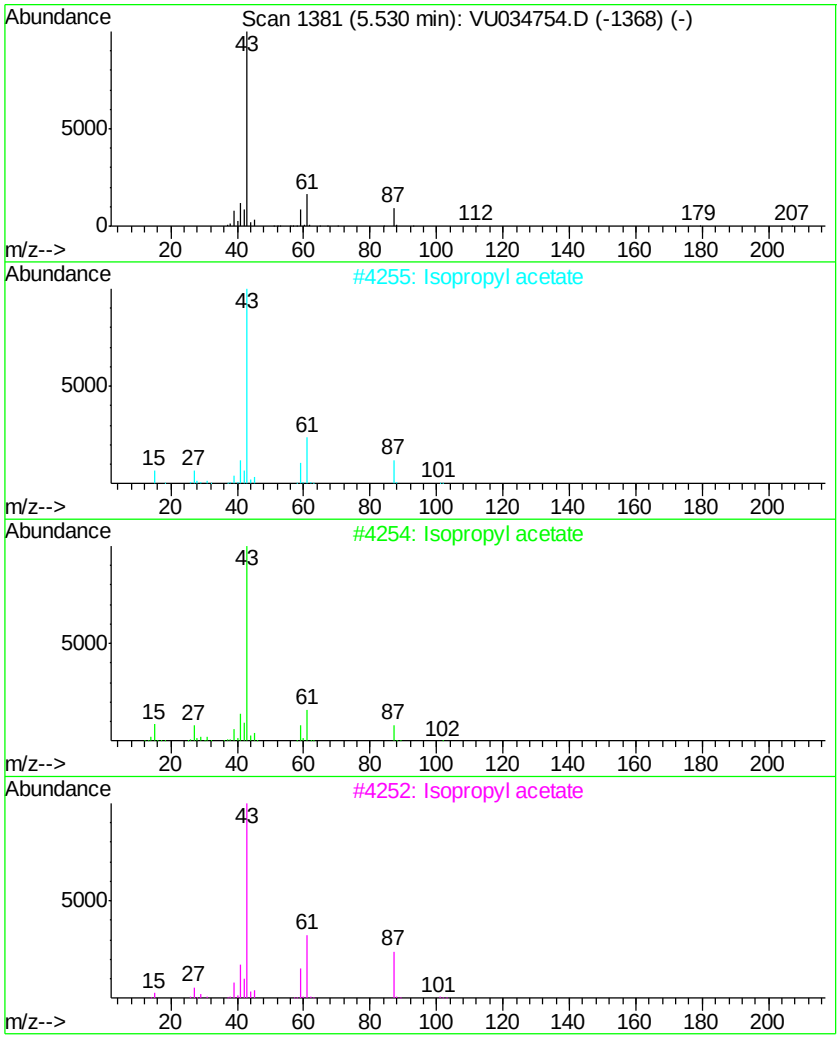
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

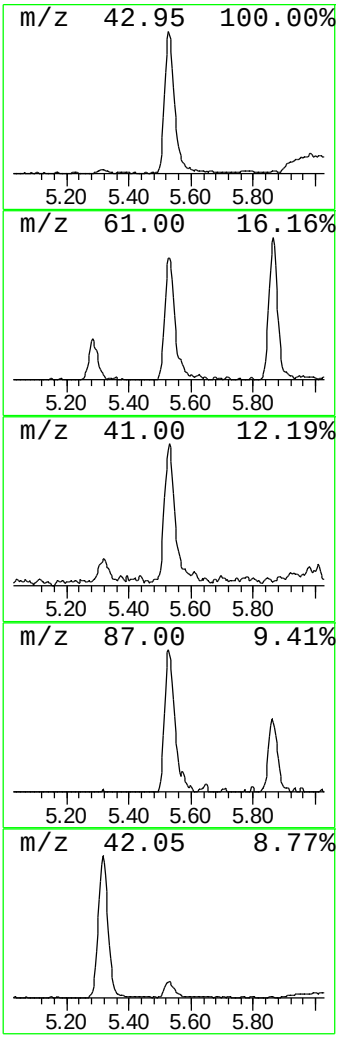
**********

Peak Number 1 Isopropyl acetate Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.53 | 7.94 ug/L | 222624 | 1,4-Difluorobenzene | 5.86 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Isopropyl acetate | 102 | C5H10O2 | 000108-21-4 | 72 |
| 2 | Isopropyl acetate | 102 | C5H10O2 | 000108-21-4 | 64 |
| 3 | Isopropyl acetate | 102 | C5H10O2 | 000108-21-4 | 45 |
| 4 | Isopropyl acetate | 102 | C5H10O2 | 000108-21-4 | 42 |
| 5 | Acetaldehyde, O-ethyloxime- | 87 | C4H9NO | 1000288-34-6 | 5 |



# Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092319\
Data File : VU034754.D
Acq On : 23 Sep 2019 23:40
Operator : JC/SP
Sample : K4932-11
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 31 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BFDJ9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

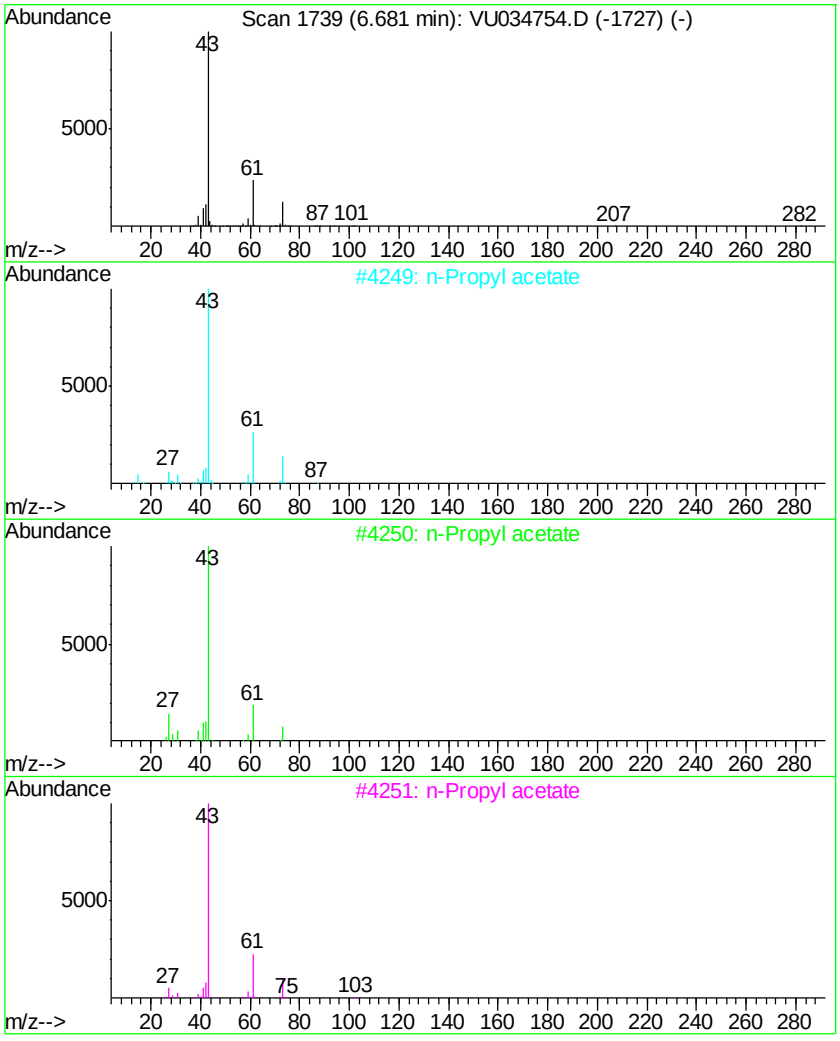
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

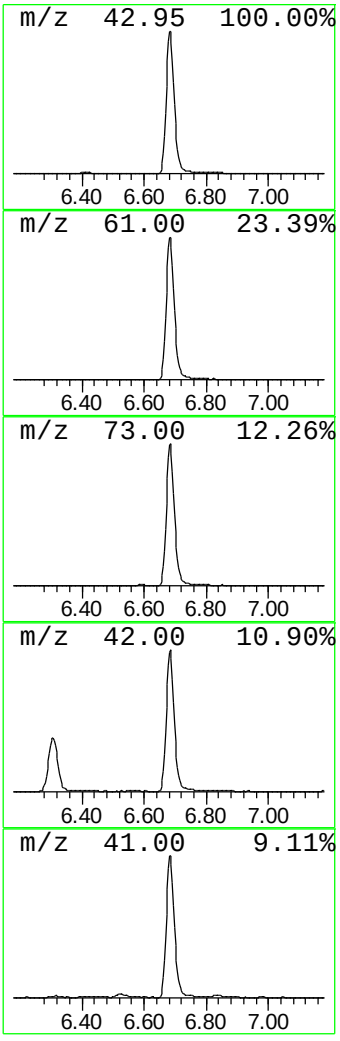
**********

Peak Number 2 n-Propyl acetate Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.68 | 136.98 ug/L | 3839980 | 1,4-Difluorobenzene | 5.86 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | n-Propyl acetate | 102 | C5H10O2 | 000109-60-4 | 83 |
| 2 | n-Propyl acetate | 102 | C5H10O2 | 000109-60-4 | 78 |
| 3 | n-Propyl acetate | 102 | C5H10O2 | 000109-60-4 | 78 |
| 4 | Isobutylamine | 73 | C4H11N | 000078-81-9 | 7 |
| 5 | Isobutylamine | 73 | C4H11N | 000078-81-9 | 5 |



# Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092319\
Data File : VU034754.D
Acq On : 23 Sep 2019 23:40
Operator : JC/SP
Sample : K4932-11
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 31 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BFDJ9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

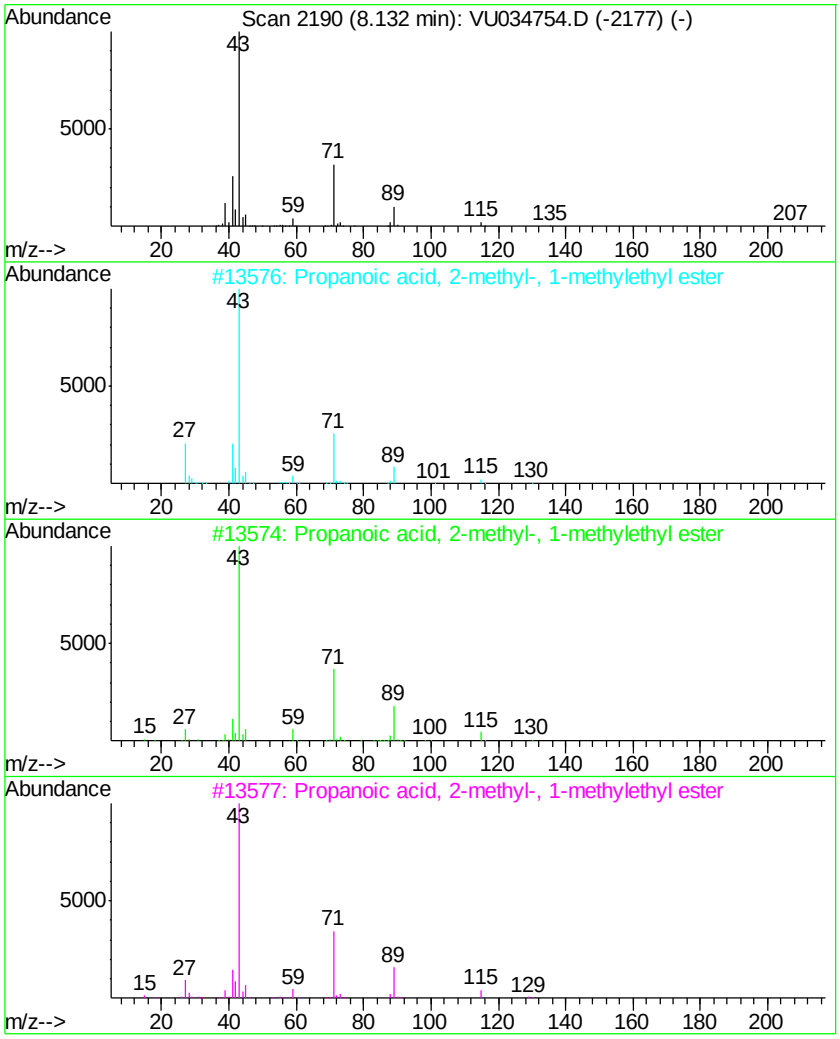
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

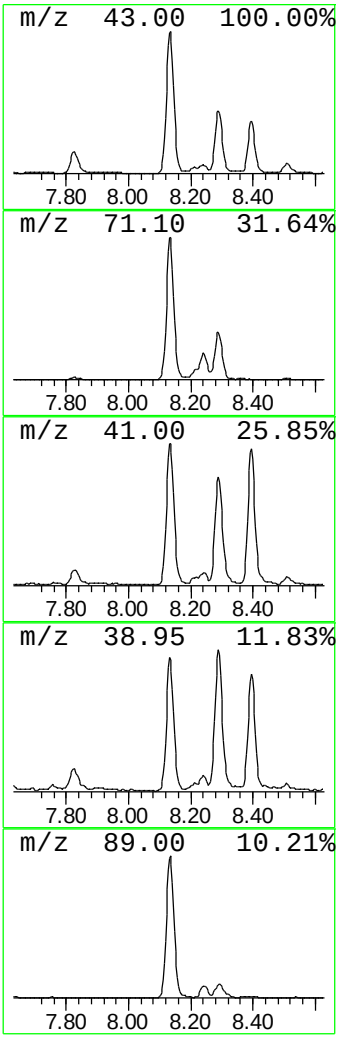
**********

Peak Number 4 Propanoic acid, 2-methyl-, ... Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.13 | 22.98 ug/L | 820063 | Chlorobenzene-d5 | 9.07 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Propanoic acid, 2-methyl-, 1-met... | 130 | C7H14O2 | 000617-50-5 | 83 |
| 2 | Propanoic acid, 2-methyl-, 1-met... | 130 | C7H14O2 | 000617-50-5 | 78 |
| 3 | Propanoic acid, 2-methyl-, 1-met... | 130 | C7H14O2 | 000617-50-5 | 64 |
| 4 | Propanoic acid, 2-methyl-, 1-met... | 130 | C7H14O2 | 000617-50-5 | 59 |
| 5 | 3-Pentanone, 2,4-dimethyl- | 114 | C7H14O | 000565-80-0 | 33 |



# Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092319\
Data File : VU034754.D
Acq On : 23 Sep 2019 23:40
Operator : JC/SP
Sample : K4932-11
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 31 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BFDJ9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

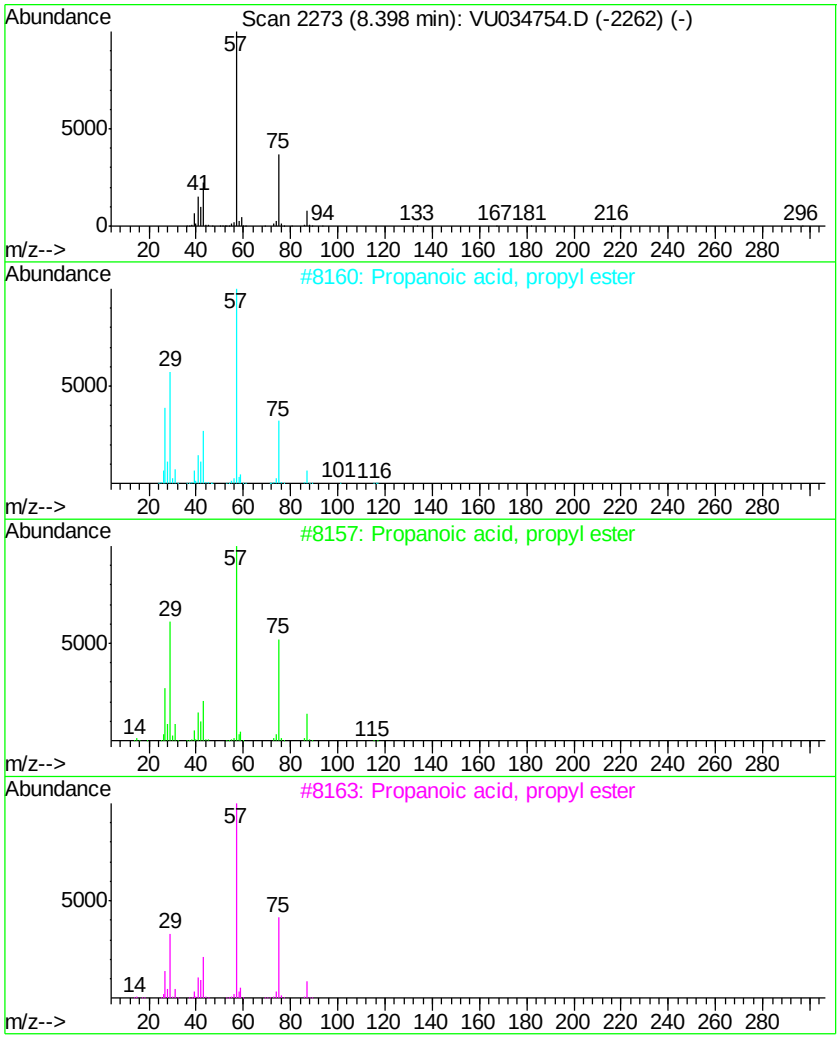
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

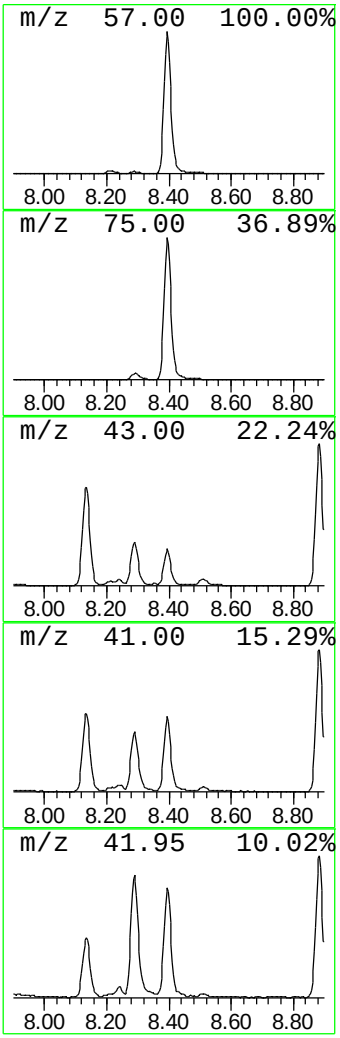
**********

Peak Number 5 Propanoic acid, propyl ester Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.40 | 36.42 ug/L | 1299460 | Chlorobenzene-d5 | 9.07 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Propanoic acid, propyl ester | 116 | C6H12O2 | 000106-36-5 | 83 |
| 2 | Propanoic acid, propyl ester | 116 | C6H12O2 | 000106-36-5 | 78 |
| 3 | Propanoic acid, propyl ester | 116 | C6H12O2 | 000106-36-5 | 78 |
| 4 | Propanoic acid, propyl ester | 116 | C6H12O2 | 000106-36-5 | 72 |
| 5 | Propanoic acid, butyl ester | 130 | C7H14O2 | 000590-01-2 | 36 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092319\
Data File : VU034754.D
Acq On : 23 Sep 2019 23:40
Operator : JC/SP
Sample : K4932-11
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 31 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BFDJ9

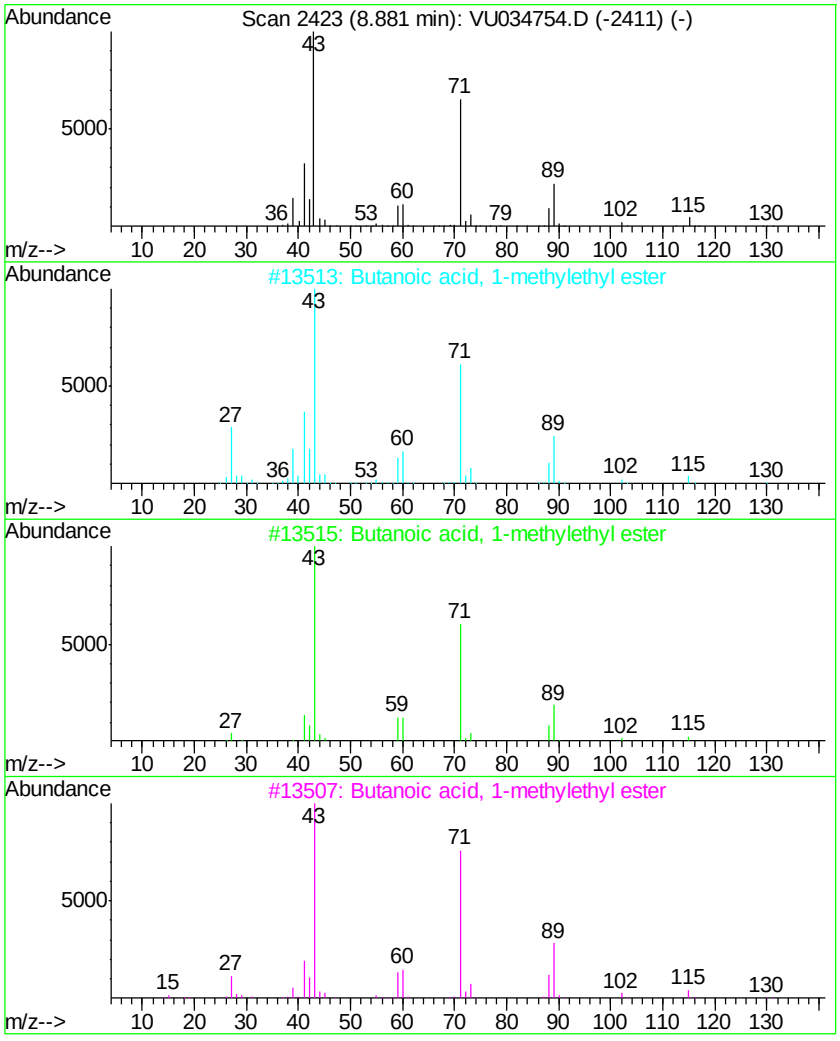
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

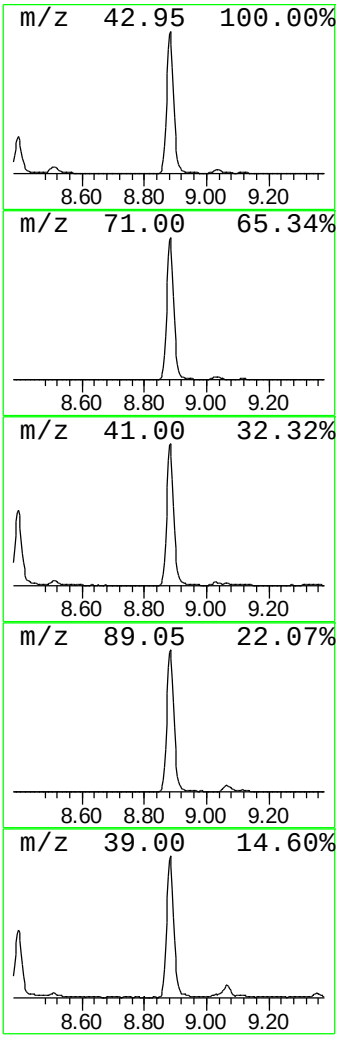
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 6 Butanoic acid, 1-methylethy... Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.88 | 45.25 ug/L | 1614580 | Chlorobenzene-d5 | 9.07 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butanoic acid, 1-methylethyl ester | 130 | C7H14O2 | 000638-11-9 | 90 |
| 2 | Butanoic acid, 1-methylethyl ester | 130 | C7H14O2 | 000638-11-9 | 90 |
| 3 | Butanoic acid, 1-methylethyl ester | 130 | C7H14O2 | 000638-11-9 | 90 |
| 4 | Butanoic acid, 1-methylethyl ester | 130 | C7H14O2 | 000638-11-9 | 86 |
| 5 | Propanoic acid, 2-methyl-, propy... | 130 | C7H14O2 | 000644-49-5 | 59 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092319\
Data File : VU034754.D
Acq On : 23 Sep 2019 23:40
Operator : JC/SP
Sample : K4932-11
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 31 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BFDJ9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

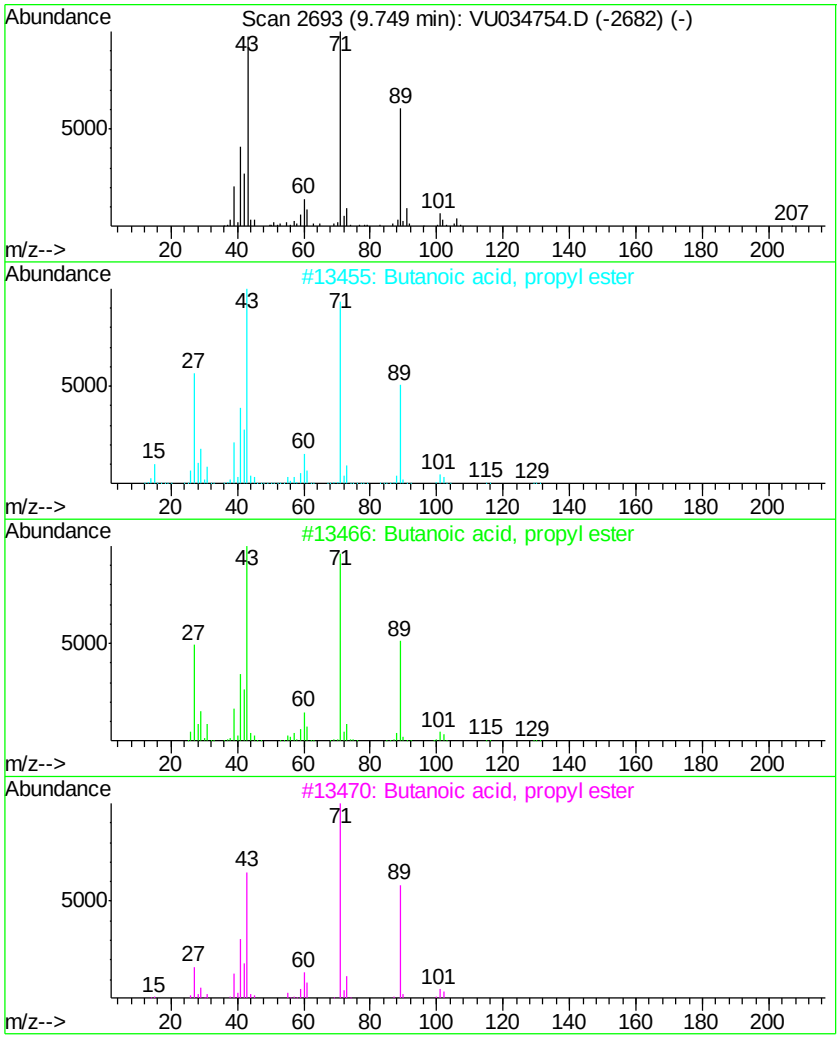
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

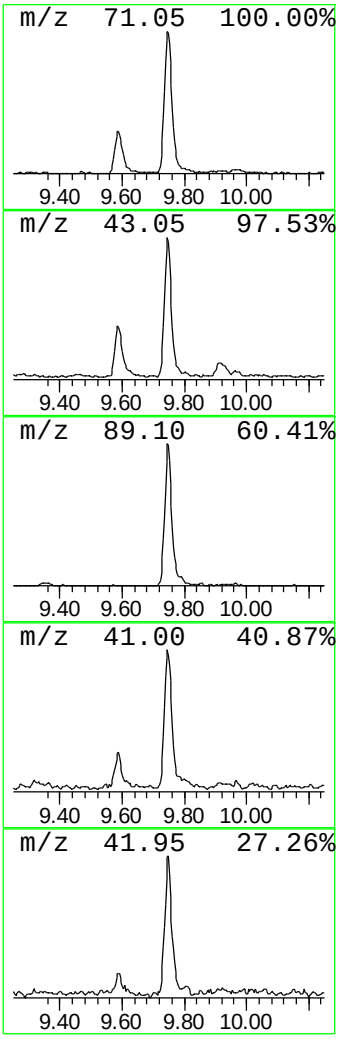
**********

Peak Number 7 Butanoic acid, propyl ester Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.75 | 5.96 ug/L | 212799 | Chlorobenzene-d5 | 9.07 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butanoic acid, propyl ester | 130 | C7H14O2 | 000105-66-8 | 90 |
| 2 | Butanoic acid, propyl ester | 130 | C7H14O2 | 000105-66-8 | 90 |
| 3 | Butanoic acid, propyl ester | 130 | C7H14O2 | 000105-66-8 | 86 |
| 4 | Butanoic acid, hexyl ester | 172 | C10H20O2 | 002639-63-6 | 83 |
| 5 | Propanoic acid, 2-methyl-, propy... | 130 | C7H14O2 | 000644-49-5 | 78 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092319\
Data File : VU034754.D
Acq On : 23 Sep 2019 23:40
Operator : JC/SP
Sample : K4932-11
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 31 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BFDJ9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

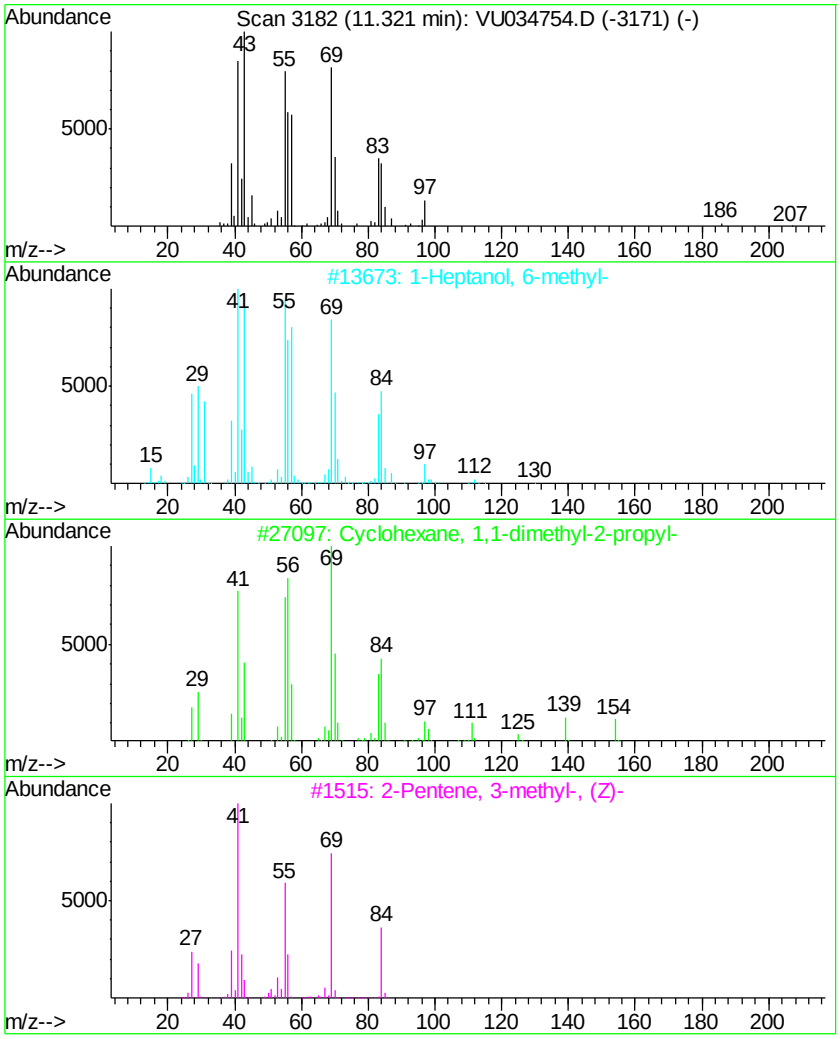
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

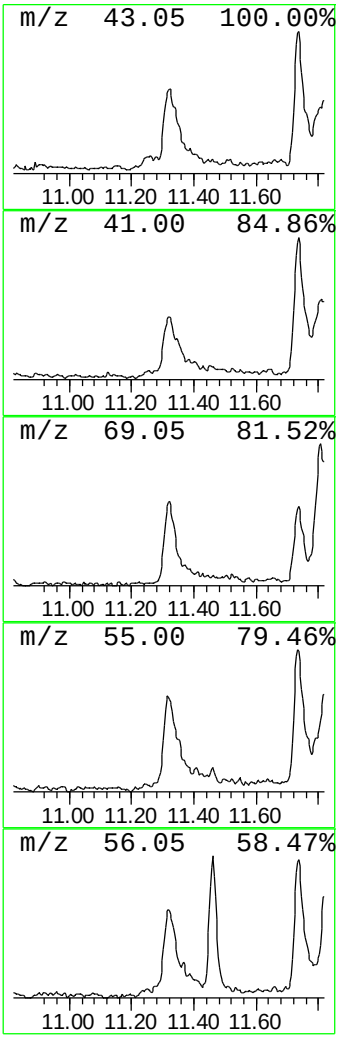
**********

Peak Number 8 1-Heptanol, 6-methyl- Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.32 | 5.37 ug/L | 174348 | 1,4-Dichlorobenzene-d4 | 11.46 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Heptanol, 6-methyl- | 130 | C8H18O | 001653-40-3 | 91 |
| 2 | Cyclohexane, 1,1-dimethyl-2-propyl- | 154 | C11H22 | 081983-71-3 | 78 |
| 3 | 2-Pentene, 3-methyl-, (Z)- | 84 | C6H12 | 000922-62-3 | 49 |
| 4 | Decane, 3-chloro- | 176 | C10H21Cl | 001002-11-5 | 47 |
| 5 | 1-Heptanol, 6-methyl- | 130 | C8H18O | 001653-40-3 | 47 |



# Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092319\
Data File : VU034754.D
Acq On : 23 Sep 2019 23:40
Operator : JC/SP
Sample : K4932-11
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 31 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BFDJ9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

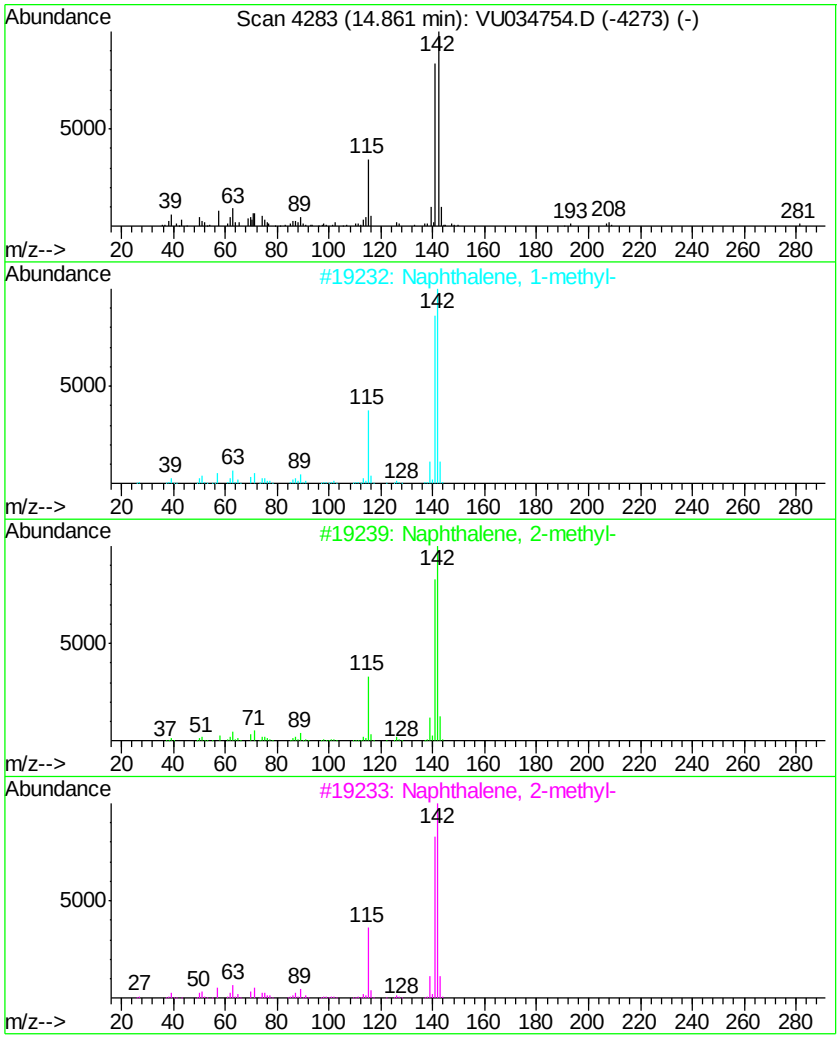
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

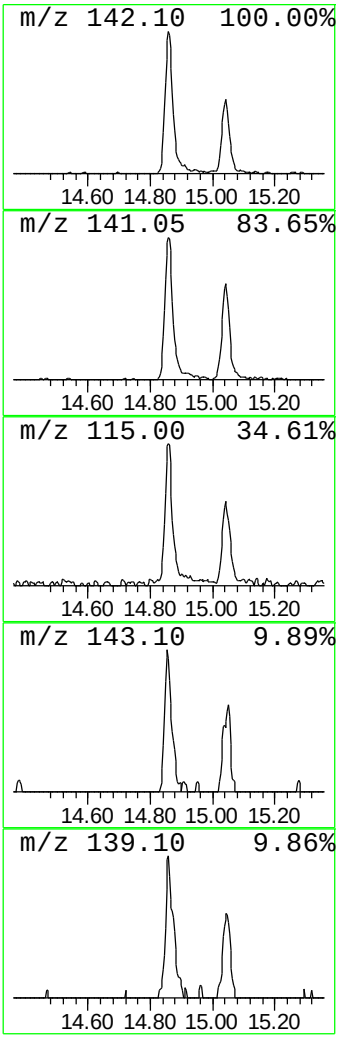
**********

Peak Number 11 Naphthalene, 1-methyl- Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.86 | 3.08 ug/L | 100107 | 1,4-Dichlorobenzene-d4 | 11.46 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1-methyl- | 142 | C11H10 | 000090-12-0 | 95 |
| 2 | Naphthalene, 2-methyl- | 142 | C11H10 | 000091-57-6 | 95 |
| 3 | Naphthalene, 2-methyl- | 142 | C11H10 | 000091-57-6 | 94 |
| 4 | Naphthalene, 2-methyl- | 142 | C11H10 | 000091-57-6 | 94 |
| 5 | Naphthalene, 1-methyl- | 142 | C11H10 | 000090-12-0 | 94 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092319\
Data File : VU034754.D
Acq On : 23 Sep 2019 23:40
Operator : JC/SP
Sample : K4932-11
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 31 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BFDJ9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.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 acetate | 5.53 | 7.9 | ug/L | 222624 | 1 | 5.86 | 1401690 | 50.0 |
| n-Propyl acetate | 6.68 | 137.0 | ug/L | 3839980 | 1 | 5.86 | 1401690 | 50.0 |
| Propanoic acid, 2... | 8.13 | 23.0 | ug/L | 820063 | 2 | 9.07 | 1784160 | 50.0 |
| Propanoic acid, p... | 8.40 | 36.4 | ug/L | 1299460 | 2 | 9.07 | 1784160 | 50.0 |
| Butanoic acid, 1-... | 8.88 | 45.3 | ug/L | 1614580 | 2 | 9.07 | 1784160 | 50.0 |
| Butanoic acid, pr... | 9.75 | 6.0 | ug/L | 212799 | 2 | 9.07 | 1784160 | 50.0 |
| 1-Heptanol, 6-met... | 11.32 | 5.4 | ug/L | 174348 | 3 | 11.46 | 1622990 | 50.0 |
| Naphthalene, 1-me... | 14.86 | 3.1 | ug/L | 100107 | 3 | 11.46 | 1622990 | 50.0 |