LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU013020\
Data File : VU036628.D
Acq On : 30 Jan 2020 19:12
Operator : JC/MD
Sample : L1326-02
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** DBCS4

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\SOMULM012920WMA.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 | 1.539 | 57 | 62 | 72 | rVB | 22782 | 24187 | 0.07% | 0.034% |
| 2 | 1.620 | 78 | 87 | 102 | rBV2 | 1004198 | 1089215 | 3.03% | 1.535% |
| 3 | 1.700 | 107 | 112 | 123 | rVB | 22723 | 25690 | 0.07% | 0.036% |
| 4 | 1.932 | 176 | 184 | 198 | rVB | 105156 | 138468 | 0.39% | 0.195% |
| 5 | 2.594 | 375 | 390 | 401 | rBV2 | 206717 | 361226 | 1.01% | 0.509% |
| 6 | 2.658 | 401 | 410 | 437 | rVB | 134201 | 225863 | 0.63% | 0.318% |
| 7 | 2.822 | 442 | 461 | 478 | rBV | 104652 | 201624 | 0.56% | 0.284% |
| 8 | 3.080 | 528 | 541 | 559 | rBV | 80798 | 151373 | 0.42% | 0.213% |
| 9 | 3.231 | 575 | 588 | 602 | rVB3 | 3668 | 8212 | 0.02% | 0.012% |
| 10 | 3.285 | 602 | 605 | 608 | rBV2 | 174 | 159 | 0.00% | 0.000% |
| 11 | 3.391 | 621 | 638 | 659 | rVV | 208481 | 411748 | 1.15% | 0.580% |
| 12 | 3.626 | 703 | 711 | 713 | rBV2 | 851 | 1033 | 0.00% | 0.001% |
| 13 | 3.909 | 789 | 799 | 800 | rBV3 | 1516 | 1629 | 0.00% | 0.002% |
| 14 | 3.973 | 815 | 819 | 825 | rVB | 133 | 144 | 0.00% | 0.000% |
| 15 | 4.115 | 856 | 863 | 866 | rBV5 | 631 | 905 | 0.00% | 0.001% |
| 16 | 4.176 | 878 | 882 | 885 | rBV2 | 211 | 195 | 0.00% | 0.000% |
| 17 | 4.305 | 919 | 922 | 924 | rBV2 | 228 | 157 | 0.00% | 0.000% |
| 18 | 4.337 | 929 | 932 | 935 | rVB | 205 | 115 | 0.00% | 0.000% |
| 19 | 4.379 | 938 | 945 | 948 | rBV2 | 251 | 266 | 0.00% | 0.000% |
| 20 | 4.494 | 965 | 981 | 1000 | rBV3 | 16252 | 39683 | 0.11% | 0.056% |
| 21 | 4.568 | 1000 | 1004 | 1006 | rBV2 | 279 | 193 | 0.00% | 0.000% |
| 22 | 4.594 | 1007 | 1012 | 1014 | rBV3 | 545 | 490 | 0.00% | 0.001% |
| 23 | 4.713 | 1025 | 1049 | 1106 | rBV | 6986869 | 15776882 | 43.95% | 22.229% |
| 24 | 5.420 | 1267 | 1269 | 1272 | rVV | 546 | 355 | 0.00% | 0.001% |
| 25 | 5.568 | 1300 | 1315 | 1327 | rBV2 | 2166 | 3821 | 0.01% | 0.005% |
| 26 | 5.768 | 1355 | 1377 | 1391 | rBV2 | 366504 | 945710 | 2.63% | 1.332% |
| 27 | 6.002 | 1447 | 1450 | 1451 | rBV2 | 440 | 272 | 0.00% | 0.000% |
| 28 | 6.147 | 1491 | 1495 | 1497 | rBV | 329 | 237 | 0.00% | 0.000% |
| 29 | 6.288 | 1523 | 1539 | 1569 | rBV | 350135 | 655867 | 1.83% | 0.924% |
| 30 | 6.581 | 1610 | 1630 | 1663 | rBV | 4507491 | 8379810 | 23.34% | 11.807% |
| 31 | 6.729 | 1666 | 1676 | 1694 | rVB | 218592 | 423369 | 1.18% | 0.596% |
| 32 | 6.919 | 1726 | 1735 | 1756 | rVB | 64334 | 117673 | 0.33% | 0.166% |
| 33 | 7.076 | 1781 | 1784 | 1785 | rBV2 | 412 | 276 | 0.00% | 0.000% |
| 34 | 7.218 | 1819 | 1828 | 1837 | rVB5 | 2574 | 4240 | 0.01% | 0.006% |

LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU013020\
Data File : VU036628.D
Acq On : 30 Jan 2020 19:12
Operator : JC/MD
Sample : L1326-02
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** DBCS4

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\SOMULM012920WMA.M
Title : VOC Analysis

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 7.404 | 1883 | 1886 | 1889 | rBV2 | 293 | 186 | 0.00% | 0.000% |
| 36 | 7.475 | 1905 | 1908 | 1909 | rBV | 184 | 120 | 0.00% | 0.000% |
| 37 | 7.520 | 1917 | 1922 | 1932 | rVB2 | 357 | 589 | 0.00% | 0.001% |
| 38 | 7.600 | 1932 | 1947 | 1962 | rBV | 127492 | 221810 | 0.62% | 0.313% |
| 39 | 7.719 | 1975 | 1984 | 1992 | rBV7 | 1994 | 3661 | 0.01% | 0.005% |
| 40 | 7.835 | 2009 | 2020 | 2031 | rBV | 5308 | 9005 | 0.03% | 0.013% |
| 41 | 7.928 | 2036 | 2049 | 2064 | rBV | 481167 | 817878 | 2.28% | 1.152% |
| 42 | 8.131 | 2109 | 2112 | 2116 | rVB2 | 512 | 460 | 0.00% | 0.001% |
| 43 | 8.211 | 2123 | 2137 | 2152 | rBV | 90609 | 152026 | 0.42% | 0.214% |
| 44 | 8.433 | 2194 | 2206 | 2219 | rBV | 76321 | 132444 | 0.37% | 0.187% |
| 45 | 8.591 | 2239 | 2255 | 2269 | rBV | 20568291 | 35899990 | 100.00% | 50.581% |
| 46 | 8.819 | 2313 | 2326 | 2354 | rBV | 661645 | 1113552 | 3.10% | 1.569% |
| 47 | 9.169 | 2433 | 2435 | 2441 | rVB | 196 | 112 | 0.00% | 0.000% |
| 48 | 9.301 | 2469 | 2476 | 2484 | rBV3 | 756 | 1200 | 0.00% | 0.002% |
| 49 | 9.372 | 2490 | 2498 | 2507 | rBV3 | 1106 | 1957 | 0.01% | 0.003% |
| 50 | 9.443 | 2507 | 2520 | 2537 | rBV | 459188 | 763443 | 2.13% | 1.076% |
| 51 | 9.597 | 2561 | 2568 | 2576 | rBV4 | 1804 | 2637 | 0.01% | 0.004% |
| 52 | 9.719 | 2597 | 2606 | 2617 | rVB | 4757 | 7791 | 0.02% | 0.011% |
| 53 | 9.803 | 2619 | 2632 | 2650 | rBV2 | 11627 | 25517 | 0.07% | 0.036% |
| 54 | 9.867 | 2650 | 2652 | 2654 | rBV2 | 397 | 199 | 0.00% | 0.000% |
| 55 | 9.999 | 2686 | 2693 | 2699 | rBV3 | 725 | 1226 | 0.00% | 0.002% |
| 56 | 10.214 | 2757 | 2760 | 2764 | rVB | 218 | 113 | 0.00% | 0.000% |
| 57 | 10.266 | 2766 | 2776 | 2782 | rBV3 | 3778 | 6390 | 0.02% | 0.009% |
| 58 | 10.372 | 2798 | 2809 | 2831 | rVB3 | 17924 | 34302 | 0.10% | 0.048% |
| 59 | 10.472 | 2838 | 2840 | 2842 | rBV | 345 | 126 | 0.00% | 0.000% |
| 60 | 10.504 | 2844 | 2850 | 2852 | rBV4 | 860 | 871 | 0.00% | 0.001% |
| 61 | 10.568 | 2867 | 2870 | 2873 | rVV2 | 242 | 216 | 0.00% | 0.000% |
| 62 | 10.594 | 2873 | 2878 | 2885 | rVB2 | 937 | 1233 | 0.00% | 0.002% |
| 63 | 10.639 | 2885 | 2892 | 2897 | rBV2 | 191 | 216 | 0.00% | 0.000% |
| 64 | 10.684 | 2902 | 2906 | 2910 | rVB | 204 | 164 | 0.00% | 0.000% |
| 65 | 10.722 | 2912 | 2918 | 2924 | rBV3 | 1108 | 1382 | 0.00% | 0.002% |
| 66 | 10.780 | 2924 | 2936 | 2967 | rVB2 | 336533 | 836740 | 2.33% | 1.179% |
| 67 | 10.919 | 2971 | 2979 | 2980 | rBV2 | 1705 | 1215 | 0.00% | 0.002% |
| 68 | 11.021 | 3001 | 3011 | 3016 | rBV | 4074 | 6604 | 0.02% | 0.009% |
| 69 | 11.173 | 3050 | 3058 | 3072 | rVB4 | 3052 | 6327 | 0.02% | 0.009% |
| 70 | 11.253 | 3080 | 3083 | 3084 | rBV | 296 | 113 | 0.00% | 0.000% |
| 71 | 11.279 | 3084 | 3091 | 3097 | rBV2 | 2445 | 3503 | 0.01% | 0.005% |

LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU013020\
Data File : VU036628.D
Acq On : 30 Jan 2020 19:12
Operator : JC/MD
Sample : L1326-02
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** DBCS4

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\SOMULM012920WMA.M
Title : VOC Analysis

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 11.401 | 3126 | 3129 | 3130 | rBV2 | 250 | 125 | 0.00% | 0.000% |
| 73 | 11.452 | 3133 | 3145 | 3153 | rBV | 172011 | 279788 | 0.78% | 0.394% |
| 74 | 11.546 | 3171 | 3174 | 3177 | rBV3 | 279 | 192 | 0.00% | 0.000% |
| 75 | 11.597 | 3183 | 3190 | 3194 | rBV2 | 1337 | 1427 | 0.00% | 0.002% |
| 76 | 11.716 | 3217 | 3227 | 3237 | rBV3 | 20046 | 31681 | 0.09% | 0.045% |
| 77 | 11.835 | 3251 | 3264 | 3279 | rBV | 471094 | 767870 | 2.14% | 1.082% |
| 78 | 11.915 | 3280 | 3289 | 3300 | rBV2 | 16027 | 24656 | 0.07% | 0.035% |
| 79 | 12.028 | 3319 | 3324 | 3331 | rBV2 | 691 | 714 | 0.00% | 0.001% |
| 80 | 12.079 | 3332 | 3340 | 3347 | rBV4 | 2660 | 4484 | 0.01% | 0.006% |
| 81 | 12.214 | 3369 | 3382 | 3397 | rBV | 468872 | 757512 | 2.11% | 1.067% |
| 82 | 12.365 | 3426 | 3429 | 3431 | rBV2 | 291 | 189 | 0.00% | 0.000% |
| 83 | 12.494 | 3460 | 3469 | 3482 | rBV4 | 7831 | 13530 | 0.04% | 0.019% |
| 84 | 12.565 | 3483 | 3491 | 3506 | rVB9 | 5128 | 12547 | 0.03% | 0.018% |
| 85 | 12.639 | 3509 | 3514 | 3516 | rBV3 | 977 | 980 | 0.00% | 0.001% |
| 86 | 12.700 | 3527 | 3533 | 3554 | rVB7 | 3520 | 7695 | 0.02% | 0.011% |
| 87 | 12.777 | 3554 | 3557 | 3558 | rBV2 | 355 | 203 | 0.00% | 0.000% |
| 88 | 12.835 | 3568 | 3575 | 3577 | rBV3 | 686 | 678 | 0.00% | 0.001% |
| 89 | 12.909 | 3584 | 3598 | 3608 | rBV7 | 6369 | 10368 | 0.03% | 0.015% |
| 90 | 12.957 | 3611 | 3613 | 3616 | rBV2 | 257 | 141 | 0.00% | 0.000% |
| 91 | 13.127 | 3664 | 3666 | 3670 | rVB | 264 | 121 | 0.00% | 0.000% |
| 92 | 13.237 | 3697 | 3700 | 3703 | rBV2 | 209 | 136 | 0.00% | 0.000% |
| 93 | 13.468 | 3764 | 3772 | 3780 | rVB3 | 2238 | 3389 | 0.01% | 0.005% |
| 94 | 13.542 | 3789 | 3795 | 3800 | rVB3 | 691 | 922 | 0.00% | 0.001% |
| 95 | 13.568 | 3800 | 3803 | 3805 | rBV2 | 280 | 173 | 0.00% | 0.000% |
| 96 | 13.861 | 3890 | 3894 | 3898 | rBV2 | 657 | 742 | 0.00% | 0.001% |
| 97 | 13.992 | 3933 | 3935 | 3937 | rBV | 292 | 129 | 0.00% | 0.000% |
| 98 | 14.063 | 3955 | 3957 | 3961 | rBV2 | 342 | 188 | 0.00% | 0.000% |
| 99 | 14.105 | 3961 | 3970 | 3983 | rVV2 | 5112 | 8309 | 0.02% | 0.012% |
| 100 | 14.237 | 4008 | 4011 | 4016 | rBV | 217 | 249 | 0.00% | 0.000% |

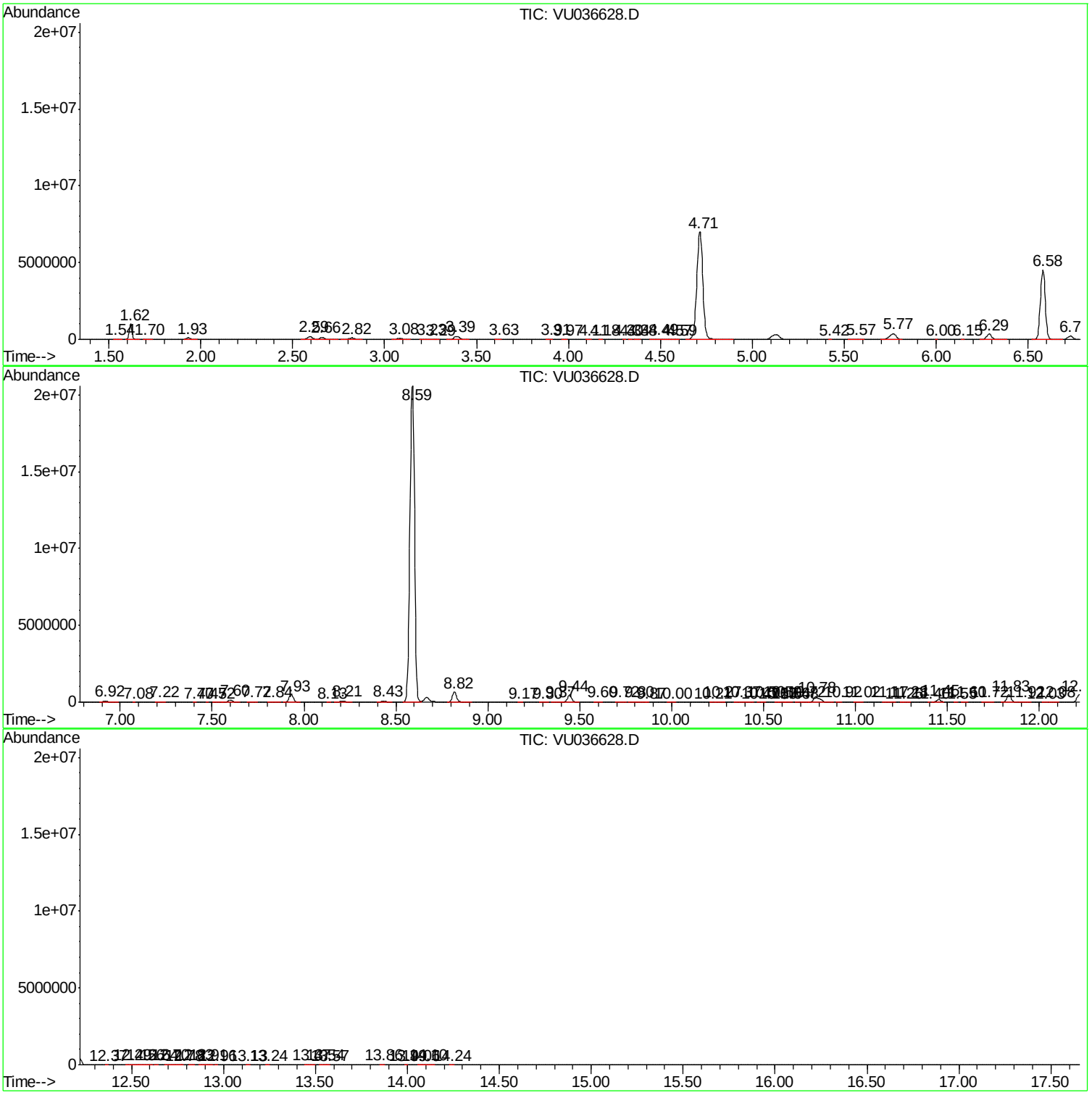
Sum of corrected areas: 70975543

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU013020\
Data File : VU036628.D
Acq On : 30 Jan 2020 19:12
Operator : JC/MD
Sample : L1326-02
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 23 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
DBCS4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM012920WMA.M
Quant Title : VOC Analysis

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



Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU013020\
Data File : VU036628.D
Acq On : 30 Jan 2020 19:12
Operator : JC/MD
Sample : L1326-02
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** DBCS4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM012920WMA.M
Quant Title : VOC Analysis

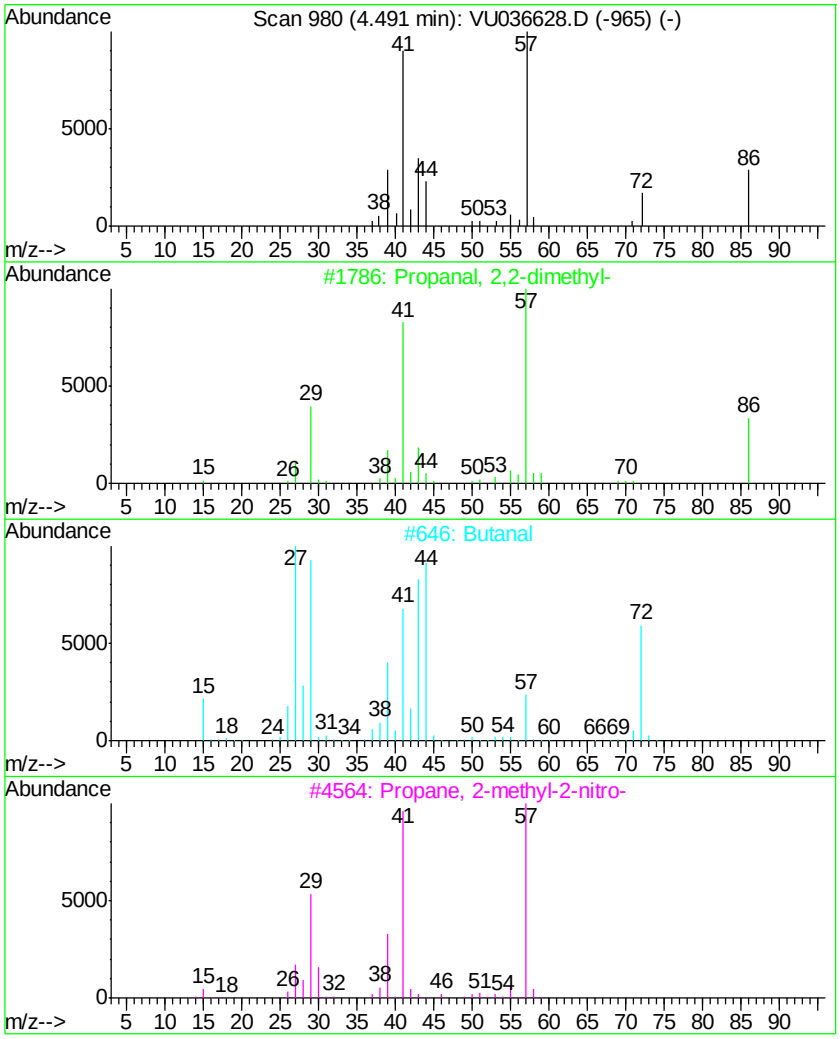
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

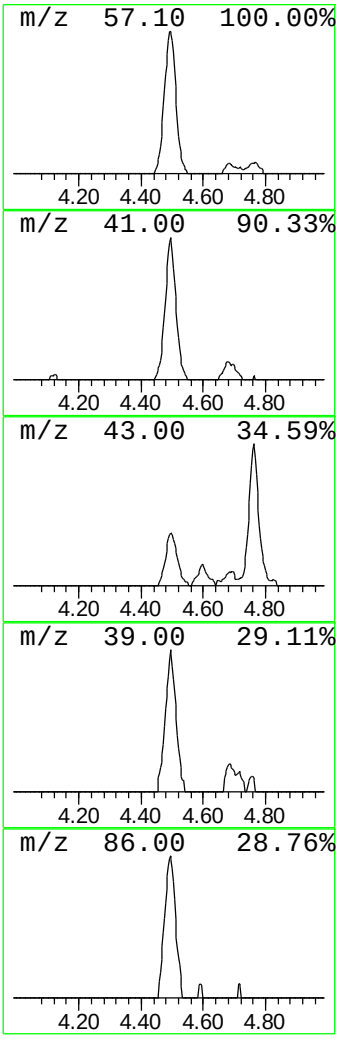
**********

Peak Number 1 Propanal, 2,2-dimethyl- Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.49 | 3.03 ug/L | 39683 | 1,4-Difluorobenzene | 6.29 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Propanal, 2,2-dimethyl- | 86 | C5H10O | 000630-19-3 | 50 |
| 2 | Butanal | 72 | C4H8O | 000123-72-8 | 38 |
| 3 | Propane, 2-methyl-2-nitro- | 103 | C4H9NO2 | 000594-70-7 | 38 |
| 4 | Propane, 2-methyl-2-nitro- | 103 | C4H9NO2 | 000594-70-7 | 35 |
| 5 | Propane, 2-bromo-2-methyl- | 136 | C4H9Br | 000507-19-7 | 32 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU013020\
Data File : VU036628.D
Acq On : 30 Jan 2020 19:12
Operator : JC/MD
Sample : L1326-02
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** DBCS4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM012920WMA.M
Quant Title : VOC Analysis

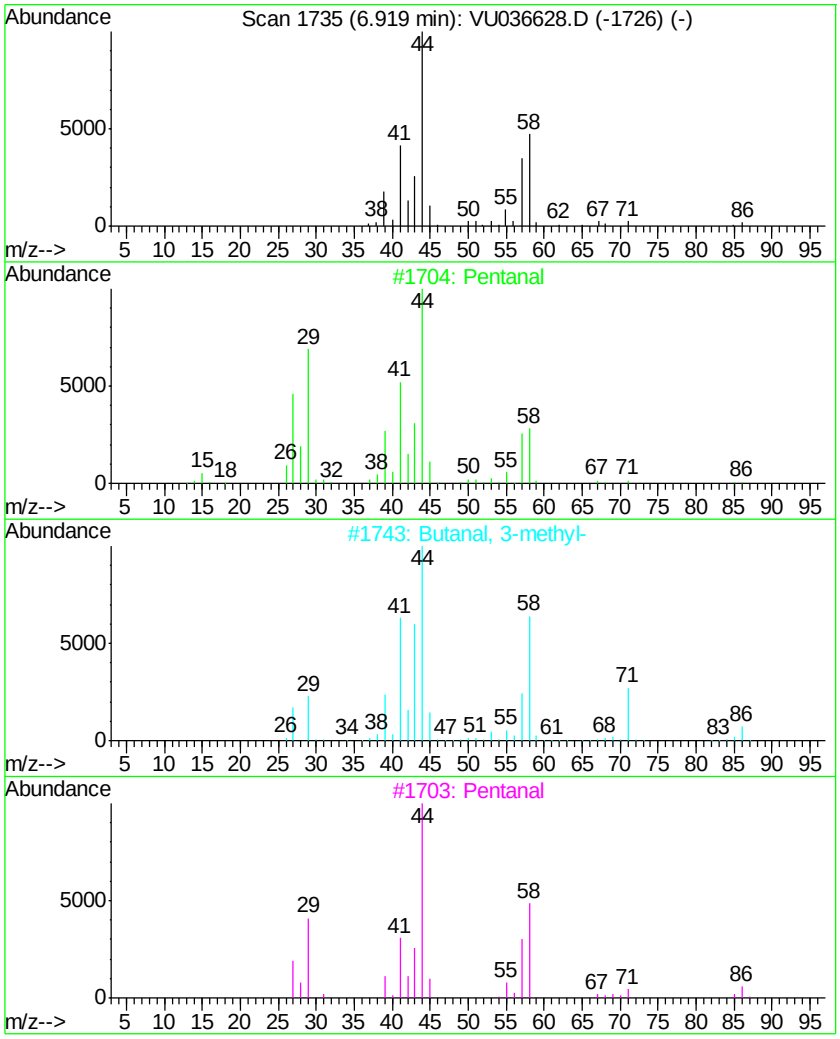
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

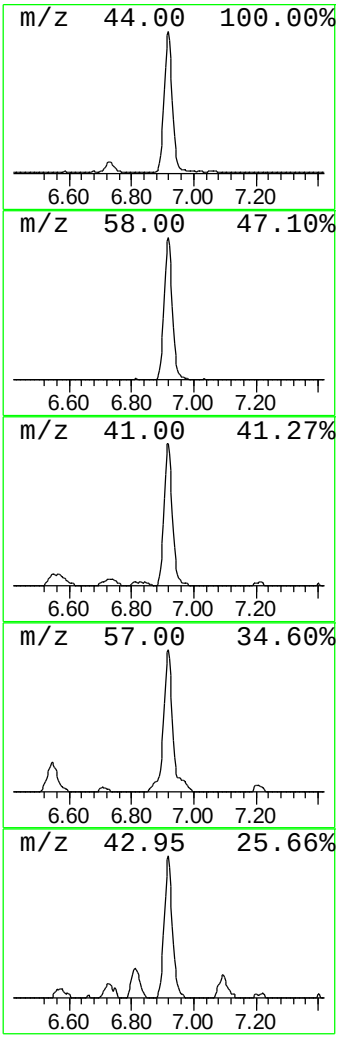
**********

Peak Number 2 Pentanal Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.92 | 8.97 ug/L | 117673 | 1,4-Difluorobenzene | 6.29 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentanal | 86 | C5H10O | 000110-62-3 | 90 |
| 2 | Butanal, 3-methyl- | 86 | C5H10O | 000590-86-3 | 83 |
| 3 | Pentanal | 86 | C5H10O | 000110-62-3 | 78 |
| 4 | Butanal, 3-methyl- | 86 | C5H10O | 000590-86-3 | 33 |
| 5 | Cyclopropyl carbinol | 72 | C4H8O | 002516-33-8 | 28 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU013020\
Data File : VU036628.D
Acq On : 30 Jan 2020 19:12
Operator : JC/MD
Sample : L1326-02
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** DBCS4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM012920WMA.M
Quant Title : VOC Analysis

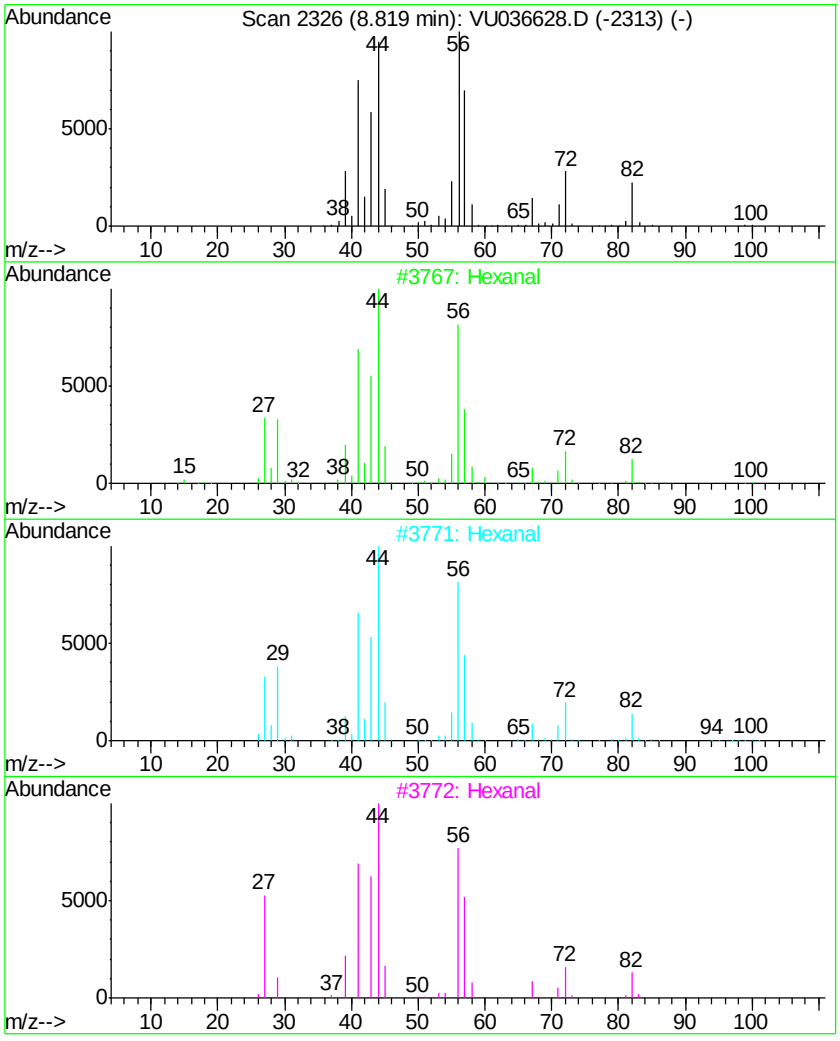
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

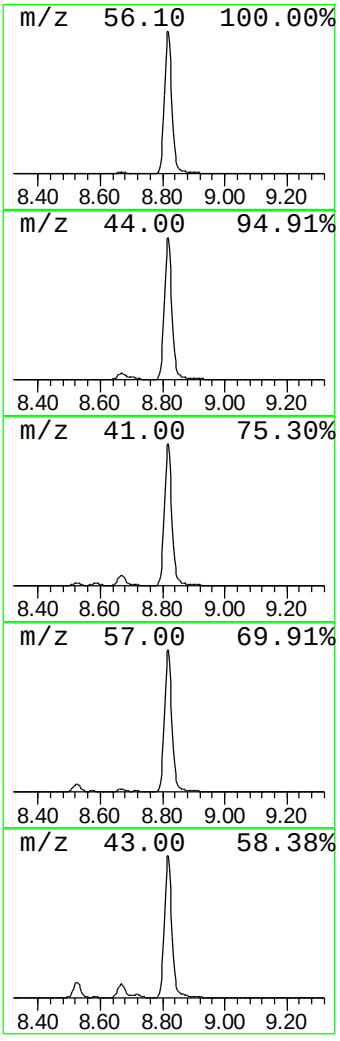
**********

Peak Number 4 Hexanal Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.82 | 72.93 ug/L | 1113550 | Chlorobenzene-d5 | 9.44 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexanal | 100 | C6H12O | 000066-25-1 | 94 |
| 2 | Hexanal | 100 | C6H12O | 000066-25-1 | 91 |
| 3 | Hexanal | 100 | C6H12O | 000066-25-1 | 83 |
| 4 | Hexanal | 100 | C6H12O | 000066-25-1 | 83 |
| 5 | Glutaraldehyde | 100 | C5H8O2 | 000111-30-8 | 43 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU013020\
Data File : VU036628.D
Acq On : 30 Jan 2020 19:12
Operator : JC/MD
Sample : L1326-02
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** DBCS4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM012920WMA.M
Quant Title : VOC Analysis

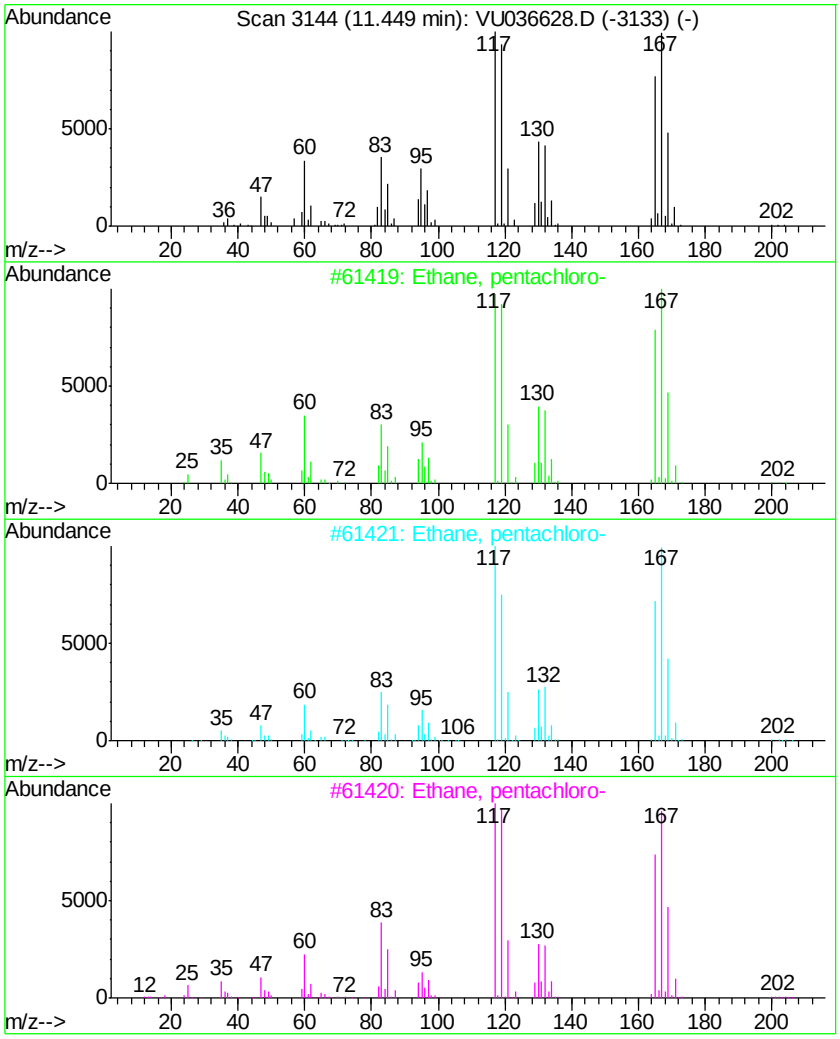
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

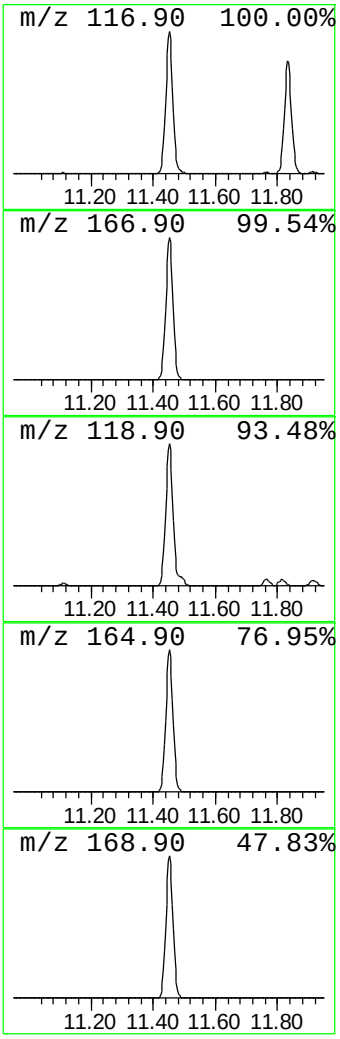
**********

Peak Number 5 Ethane, pentachloro- Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.45 | 18.22 ug/L | 279788 | 1,4-Dichlorobenzene-d4 | 11.83 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Ethane, pentachloro- | 200 | C2HCl5 | 000076-01-7 | 99 |
| 2 | Ethane, pentachloro- | 200 | C2HCl5 | 000076-01-7 | 97 |
| 3 | Ethane, pentachloro- | 200 | C2HCl5 | 000076-01-7 | 96 |
| 4 | Ethane, 1,1,1,2-tetrachloro-2,2-... | 202 | C2Cl4F2 | 000076-11-9 | 35 |
| 5 | Carbon Tetrachloride | 152 | CCl4 | 000056-23-5 | 14 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU013020\
Data File : VU036628.D
Acq On : 30 Jan 2020 19:12
Operator : JC/MD
Sample : L1326-02
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** DBCS4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM012920WMA.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 |
| Propanal, 2,2-dim... | 4.49 | 3.0 | ug/L | 39683 | 1 | 6.29 | 655867 | 50.0 |
| Pentanal | 6.92 | 9.0 | ug/L | 117673 | 1 | 6.29 | 655867 | 50.0 |
| Hexanal | 8.82 | 72.9 | ug/L | 1113550 | 2 | 9.44 | 763443 | 50.0 |
| Ethane, pentachloro- | 11.45 | 18.2 | ug/L | 279788 | 3 | 11.83 | 767870 | 50.0 |