LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU092019\
Data File : VU034700.D
Acq On : 20 Sep 2019 19:39
Operator : JC/SP
Sample : K4948-16
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BFCX4

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 | 37 | rBV | 110535 | 106198 | 4.88% | 0.625% |
| 2 | 1.392 | 87 | 94 | 105 | rBV | 331310 | 365663 | 16.81% | 2.154% |
| 3 | 1.672 | 174 | 181 | 194 | rVB | 250700 | 322833 | 14.84% | 1.901% |
| 4 | 2.257 | 354 | 363 | 375 | rVB | 443254 | 670099 | 30.80% | 3.946% |
| 5 | 2.428 | 408 | 416 | 430 | rBV | 66117 | 114706 | 5.27% | 0.676% |
| 6 | 2.646 | 482 | 484 | 489 | rBV7 | 1446 | 904 | 0.04% | 0.005% |
| 7 | 2.801 | 526 | 532 | 533 | rBV5 | 3338 | 2954 | 0.14% | 0.017% |
| 8 | 2.936 | 570 | 574 | 576 | rBV4 | 1896 | 1425 | 0.07% | 0.008% |
| 9 | 2.981 | 576 | 588 | 603 | rVB2 | 20011 | 45426 | 2.09% | 0.268% |
| 10 | 3.125 | 629 | 633 | 636 | rBV5 | 1830 | 1448 | 0.07% | 0.009% |
| 11 | 3.180 | 645 | 650 | 653 | rBV6 | 2266 | 2086 | 0.10% | 0.012% |
| 12 | 3.363 | 703 | 707 | 710 | rVV6 | 1937 | 1627 | 0.07% | 0.010% |
| 13 | 3.415 | 719 | 723 | 726 | rBV4 | 952 | 934 | 0.04% | 0.006% |
| 14 | 3.649 | 792 | 796 | 800 | rVB6 | 1206 | 1022 | 0.05% | 0.006% |
| 15 | 3.740 | 820 | 824 | 828 | rVB5 | 1519 | 1525 | 0.07% | 0.009% |
| 16 | 3.791 | 837 | 840 | 845 | rVB6 | 1436 | 1410 | 0.06% | 0.008% |
| 17 | 3.823 | 845 | 850 | 852 | rBV3 | 1385 | 1248 | 0.06% | 0.007% |
| 18 | 4.010 | 903 | 908 | 915 | rVB9 | 1719 | 2233 | 0.10% | 0.013% |
| 19 | 4.077 | 927 | 929 | 933 | rVB4 | 1547 | 985 | 0.05% | 0.006% |
| 20 | 4.151 | 940 | 952 | 981 | rBV | 205758 | 564980 | 25.97% | 3.327% |
| 21 | 4.624 | 1083 | 1099 | 1124 | rVV | 348362 | 838926 | 38.56% | 4.941% |
| 22 | 4.849 | 1164 | 1169 | 1172 | rBV6 | 2096 | 2118 | 0.10% | 0.012% |
| 23 | 5.048 | 1228 | 1231 | 1236 | rVB7 | 1738 | 1378 | 0.06% | 0.008% |
| 24 | 5.087 | 1238 | 1243 | 1248 | rVB5 | 1503 | 1952 | 0.09% | 0.011% |
| 25 | 5.145 | 1257 | 1261 | 1262 | rBV3 | 1452 | 1044 | 0.05% | 0.006% |
| 26 | 5.170 | 1265 | 1269 | 1271 | rBV3 | 1868 | 1235 | 0.06% | 0.007% |
| 27 | 5.315 | 1290 | 1314 | 1342 | rBV2 | 726192 | 2175732 | 100.00% | 12.814% |
| 28 | 5.614 | 1405 | 1407 | 1409 | rBV3 | 1462 | 965 | 0.04% | 0.006% |
| 29 | 5.653 | 1417 | 1419 | 1422 | rVB3 | 1928 | 1087 | 0.05% | 0.006% |
| 30 | 5.710 | 1435 | 1437 | 1440 | rBV4 | 1631 | 1124 | 0.05% | 0.007% |
| 31 | 5.865 | 1470 | 1485 | 1511 | rBV | 623774 | 1271873 | 58.46% | 7.491% |
| 32 | 6.035 | 1535 | 1538 | 1540 | rBV4 | 2216 | 1532 | 0.07% | 0.009% |
| 33 | 6.071 | 1545 | 1549 | 1551 | rVV4 | 1622 | 1507 | 0.07% | 0.009% |
| 34 | 6.141 | 1569 | 1571 | 1573 | rBV2 | 2240 | 1260 | 0.06% | 0.007% |

LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU092019\
Data File : VU034700.D
Acq On : 20 Sep 2019 19:39
Operator : JC/SP
Sample : K4948-16
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BFCX4

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 | 6.309 | 1607 | 1623 | 1644 | rBV | 505173 | 1031862 | 47.43% | 6.077% |
| 36 | 6.804 | 1770 | 1777 | 1780 | rBV6 | 2547 | 2837 | 0.13% | 0.017% |
| 37 | 7.109 | 1869 | 1872 | 1876 | rBV4 | 1484 | 1309 | 0.06% | 0.008% |
| 38 | 7.206 | 1890 | 1902 | 1934 | rBV2 | 280236 | 538429 | 24.75% | 3.171% |
| 39 | 7.498 | 1989 | 1993 | 1994 | rBV3 | 1706 | 950 | 0.04% | 0.006% |
| 40 | 7.543 | 1994 | 2007 | 2029 | rBV | 961794 | 1686580 | 77.52% | 9.933% |
| 41 | 7.829 | 2084 | 2096 | 2121 | rBV2 | 190444 | 365761 | 16.81% | 2.154% |
| 42 | 8.029 | 2155 | 2158 | 2163 | rBV7 | 1732 | 1368 | 0.06% | 0.008% |
| 43 | 8.157 | 2193 | 2198 | 2204 | rVB7 | 3620 | 4560 | 0.21% | 0.027% |
| 44 | 8.209 | 2206 | 2214 | 2226 | rVB9 | 10781 | 20156 | 0.93% | 0.119% |
| 45 | 8.289 | 2228 | 2239 | 2274 | rBV | 643737 | 1282563 | 58.95% | 7.554% |
| 46 | 8.572 | 2324 | 2327 | 2329 | rVB3 | 1842 | 969 | 0.04% | 0.006% |
| 47 | 8.675 | 2356 | 2359 | 2361 | rBV4 | 1333 | 962 | 0.04% | 0.006% |
| 48 | 8.878 | 2420 | 2422 | 2428 | rVB7 | 1546 | 1154 | 0.05% | 0.007% |
| 49 | 8.907 | 2428 | 2431 | 2433 | rBV3 | 1510 | 1221 | 0.06% | 0.007% |
| 50 | 8.935 | 2437 | 2440 | 2443 | rBV4 | 1270 | 1012 | 0.05% | 0.006% |
| 51 | 9.067 | 2469 | 2481 | 2508 | rBV | 932060 | 1596472 | 73.38% | 9.402% |
| 52 | 9.283 | 2545 | 2548 | 2550 | rBV4 | 1678 | 1046 | 0.05% | 0.006% |
| 53 | 9.353 | 2565 | 2570 | 2574 | rBV8 | 3645 | 3894 | 0.18% | 0.023% |
| 54 | 9.562 | 2633 | 2635 | 2638 | rVV3 | 1660 | 912 | 0.04% | 0.005% |
| 55 | 9.736 | 2686 | 2689 | 2691 | rBV2 | 2604 | 1666 | 0.08% | 0.010% |
| 56 | 9.961 | 2754 | 2759 | 2763 | rVB7 | 1178 | 1418 | 0.07% | 0.008% |
| 57 | 10.009 | 2770 | 2774 | 2778 | rVB7 | 1796 | 1429 | 0.07% | 0.008% |
| 58 | 10.035 | 2778 | 2782 | 2786 | rBV5 | 2498 | 2287 | 0.11% | 0.013% |
| 59 | 10.318 | 2867 | 2870 | 2873 | rVB5 | 1542 | 1035 | 0.05% | 0.006% |
| 60 | 10.344 | 2876 | 2878 | 2882 | rVB4 | 1558 | 953 | 0.04% | 0.006% |
| 61 | 10.408 | 2882 | 2898 | 2922 | rBV | 646919 | 1059725 | 48.71% | 6.241% |
| 62 | 10.553 | 2937 | 2943 | 2944 | rBV3 | 1057 | 1057 | 0.05% | 0.006% |
| 63 | 10.585 | 2949 | 2953 | 2955 | rVV4 | 2156 | 1566 | 0.07% | 0.009% |
| 64 | 10.630 | 2964 | 2967 | 2969 | rBV4 | 1822 | 1001 | 0.05% | 0.006% |
| 65 | 10.681 | 2981 | 2983 | 2988 | rVB4 | 1989 | 1495 | 0.07% | 0.009% |
| 66 | 10.746 | 2996 | 3003 | 3005 | rBV7 | 2210 | 2228 | 0.10% | 0.013% |
| 67 | 10.781 | 3010 | 3014 | 3017 | rBV5 | 1605 | 1378 | 0.06% | 0.008% |
| 68 | 10.842 | 3030 | 3033 | 3039 | rBV6 | 1763 | 1652 | 0.08% | 0.010% |
| 69 | 10.871 | 3039 | 3042 | 3045 | rBV5 | 1166 | 1050 | 0.05% | 0.006% |
| 70 | 10.916 | 3051 | 3056 | 3058 | rBV4 | 1474 | 906 | 0.04% | 0.005% |
| 71 | 10.977 | 3073 | 3075 | 3079 | rVB5 | 1836 | 999 | 0.05% | 0.006% |

LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU092019\
Data File : VU034700.D
Acq On : 20 Sep 2019 19:39
Operator : JC/SP
Sample : K4948-16
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BFCX4

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 | 11.041 | 3093 | 3095 | 3098 | rBV2 | 1308 | 975 | 0.04% | 0.006% |
| 73 | 11.093 | 3108 | 3111 | 3116 | rVB5 | 1647 | 1537 | 0.07% | 0.009% |
| 74 | 11.132 | 3119 | 3123 | 3130 | rBV9 | 2424 | 2757 | 0.13% | 0.016% |
| 75 | 11.337 | 3182 | 3187 | 3190 | rBV5 | 1897 | 2147 | 0.10% | 0.013% |
| 76 | 11.459 | 3213 | 3225 | 3244 | rBV | 845468 | 1396183 | 64.17% | 8.223% |
| 77 | 11.656 | 3284 | 3286 | 3292 | rVB6 | 2064 | 1387 | 0.06% | 0.008% |
| 78 | 11.836 | 3330 | 3342 | 3366 | rVV | 830417 | 1404034 | 64.53% | 8.269% |
| 79 | 12.167 | 3442 | 3445 | 3448 | rBV4 | 1963 | 1489 | 0.07% | 0.009% |
| 80 | 12.533 | 3554 | 3559 | 3565 | rVB7 | 1414 | 1721 | 0.08% | 0.010% |
| 81 | 12.562 | 3565 | 3568 | 3572 | rVB4 | 2260 | 2005 | 0.09% | 0.012% |
| 82 | 12.585 | 3572 | 3575 | 3578 | rBV4 | 1562 | 1332 | 0.06% | 0.008% |
| 83 | 12.656 | 3594 | 3597 | 3600 | rVB5 | 2036 | 933 | 0.04% | 0.005% |
| 84 | 12.906 | 3672 | 3675 | 3678 | rVB3 | 2890 | 1900 | 0.09% | 0.011% |
| 85 | 12.951 | 3686 | 3689 | 3691 | rBV3 | 2713 | 1617 | 0.07% | 0.010% |
| 86 | 13.115 | 3736 | 3740 | 3742 | rBV4 | 2036 | 1375 | 0.06% | 0.008% |
| 87 | 13.263 | 3784 | 3786 | 3793 | rBV6 | 1666 | 1870 | 0.09% | 0.011% |
| 88 | 13.701 | 3920 | 3922 | 3926 | rBV4 | 1489 | 1069 | 0.05% | 0.006% |
| 89 | 13.742 | 3932 | 3935 | 3937 | rBV3 | 1893 | 1202 | 0.06% | 0.007% |
| 90 | 13.839 | 3962 | 3965 | 3969 | rBV4 | 2585 | 1728 | 0.08% | 0.010% |
| 91 | 14.250 | 4091 | 4093 | 4096 | rBV4 | 2198 | 1356 | 0.06% | 0.008% |
| 92 | 14.289 | 4102 | 4105 | 4107 | rBV4 | 2032 | 1199 | 0.06% | 0.007% |
| 93 | 14.376 | 4129 | 4132 | 4135 | rBV4 | 1633 | 1318 | 0.06% | 0.008% |
| 94 | 14.411 | 4140 | 4143 | 4145 | rBV3 | 2761 | 1701 | 0.08% | 0.010% |
| 95 | 14.443 | 4150 | 4153 | 4158 | rBV5 | 2034 | 1560 | 0.07% | 0.009% |
| 96 | 14.736 | 4242 | 4244 | 4247 | rVB3 | 1942 | 950 | 0.04% | 0.006% |
| 97 | 14.974 | 4316 | 4318 | 4320 | rBV2 | 1831 | 1020 | 0.05% | 0.006% |
| 98 | 15.016 | 4328 | 4331 | 4337 | rVB7 | 2595 | 1904 | 0.09% | 0.011% |
| 99 | 15.067 | 4345 | 4347 | 4351 | rBV4 | 2817 | 1613 | 0.07% | 0.009% |
| 100 | 15.652 | 4527 | 4529 | 4536 | rBV7 | 2047 | 2510 | 0.12% | 0.015% |

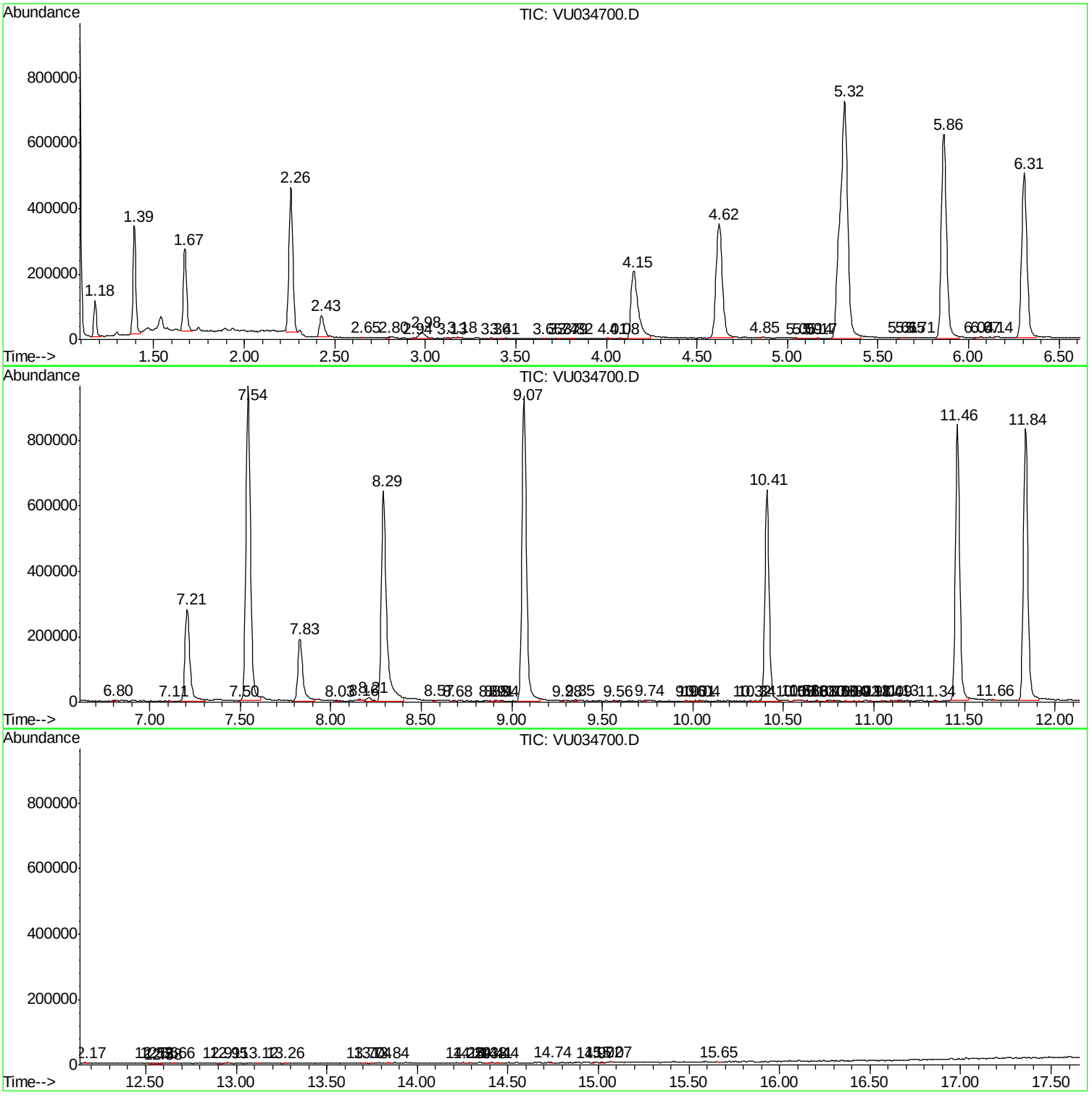
Sum of corrected areas: 16979693

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092019\
Data File : VU034700.D
Acq On : 20 Sep 2019 19:39
Operator : JC/SP
Sample : K4948-16
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 24 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
BFCX4

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\VU092019\
Data File : VU034700.D
Acq On : 20 Sep 2019 19:39
Operator : JC/SP
Sample : K4948-16
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BFCX4

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

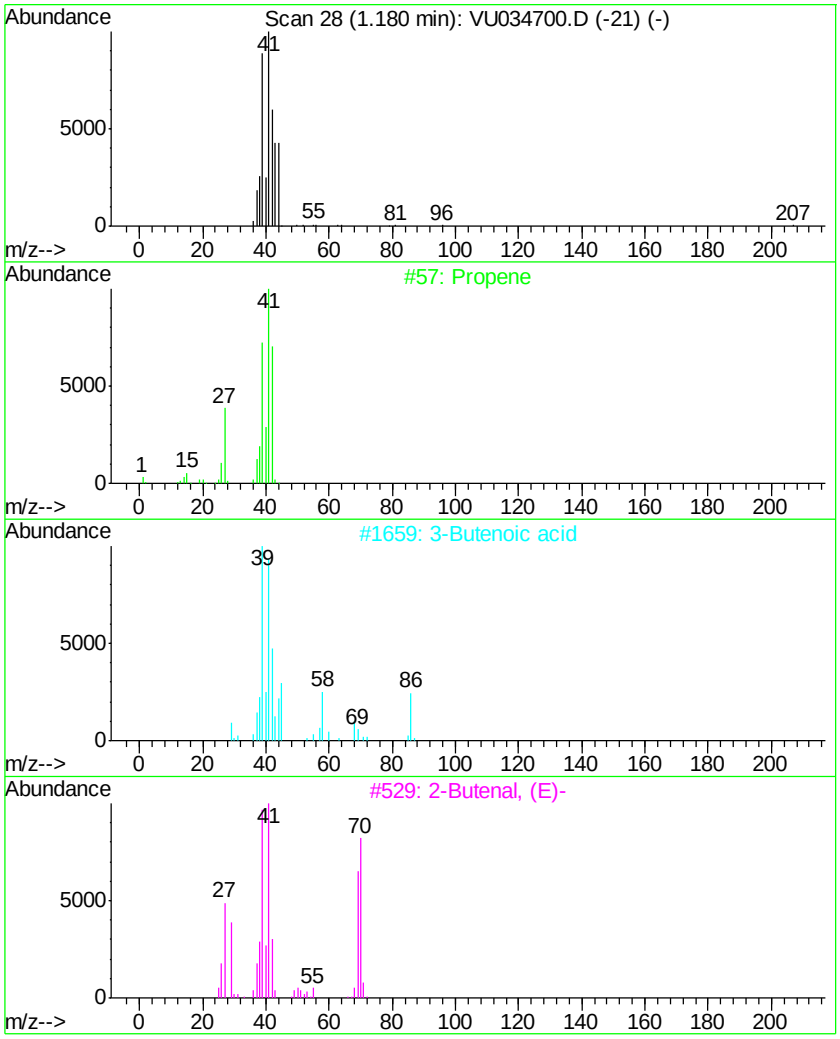
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

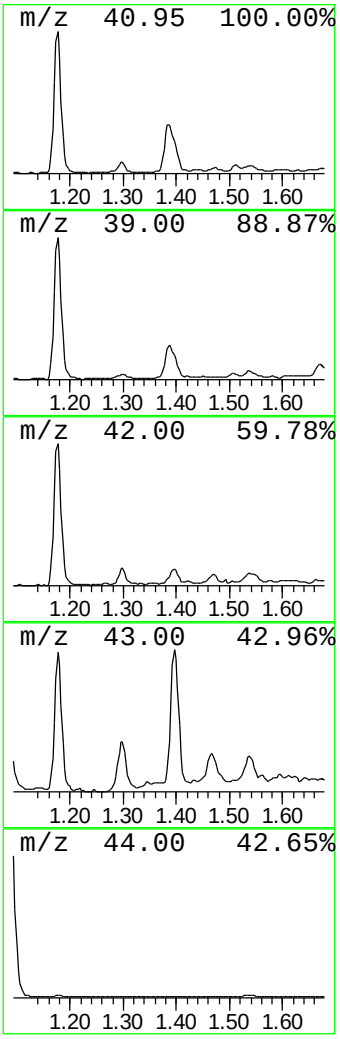
**********

Peak Number 1 (DEL) Alkane: Cyclic1.18 Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 1.18 | 4.17 ug/L | 106198 | 1,4-Difluorobenzene | 5.86 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Propene | 42 | C3H6 | 000115-07-1 | 78 |
| 2 | 3-Butenoic acid | 86 | C4H6O2 | 000625-38-7 | 78 |
| 3 | 2-Butenal, (E)- | 70 | C4H6O | 000123-73-9 | 78 |
| 4 | Furan, 2,5-dihydro- | 70 | C4H6O | 001708-29-8 | 64 |
| 5 | Cyclopropanecarboxylic acid | 86 | C4H6O2 | 001759-53-1 | 64 |



# Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092019\
Data File : VU034700.D
Acq On : 20 Sep 2019 19:39
Operator : JC/SP
Sample : K4948-16
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BFCX4

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

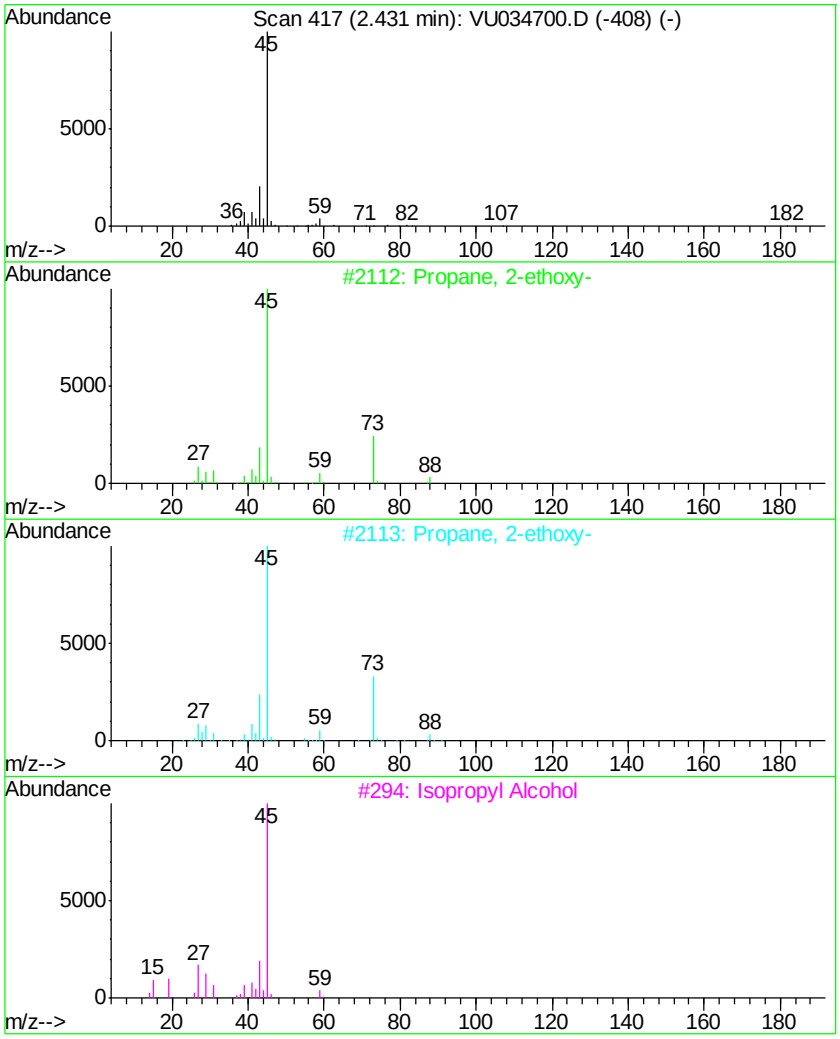
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

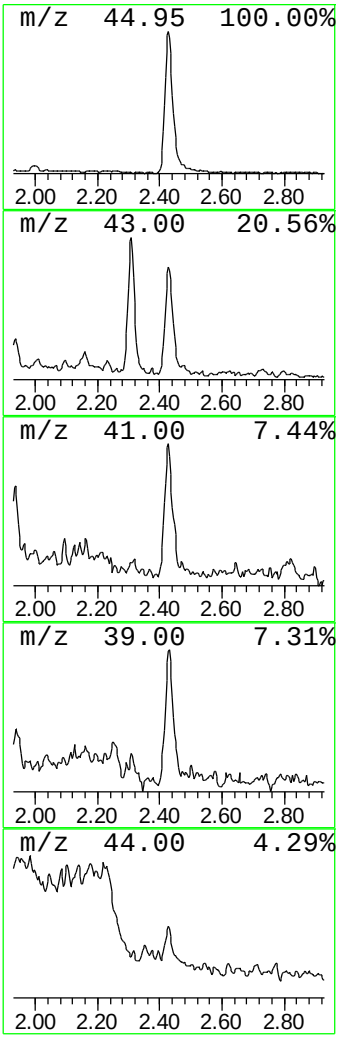
**********

Peak Number 2 Propane, 2-ethoxy- Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 2.43 | 4.51 ug/L | 114706 | 1,4-Difluorobenzene | 5.86 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Propane, 2-ethoxy- | 88 | C5H12O | 000625-54-7 | 56 |
| 2 | Propane, 2-ethoxy- | 88 | C5H12O | 000625-54-7 | 56 |
| 3 | Isopropyl Alcohol | 60 | C3H8O | 000067-63-0 | 56 |
| 4 | Isopropyl Alcohol | 60 | C3H8O | 000067-63-0 | 43 |
| 5 | Isopropyl Alcohol | 60 | C3H8O | 000067-63-0 | 43 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092019\
Data File : VU034700.D
Acq On : 20 Sep 2019 19:39
Operator : JC/SP
Sample : K4948-16
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BFCX4

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 |
| (DEL) Alkane: Cyc... | 1.18 | 4.2 | ug/L | 106198 | 1 | 5.86 | 1271870 | 50.0 |
| Propane, 2-ethoxy- | 2.43 | 4.5 | ug/L | 114706 | 1 | 5.86 | 1271870 | 50.0 |