LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU092019\
Data File : VU034688.D
Acq On : 20 Sep 2019 14:58
Operator : JC/SP
Sample : K4984-01
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BEDP2

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 | 36 | rBV | 189967 | 179542 | 7.90% | 0.951% |
| 2 | 1.299 | 60 | 65 | 71 | rVB2 | 11100 | 10393 | 0.46% | 0.055% |
| 3 | 1.392 | 86 | 94 | 107 | rBV | 373039 | 422777 | 18.61% | 2.239% |
| 4 | 1.672 | 173 | 181 | 199 | rBV | 273001 | 346236 | 15.24% | 1.834% |
| 5 | 2.257 | 354 | 363 | 374 | rVB | 467540 | 701151 | 30.86% | 3.714% |
| 6 | 2.431 | 409 | 417 | 430 | rBV2 | 26176 | 44418 | 1.95% | 0.235% |
| 7 | 2.907 | 562 | 565 | 569 | rVB4 | 2126 | 1389 | 0.06% | 0.007% |
| 8 | 2.965 | 575 | 583 | 585 | rBV6 | 3451 | 3754 | 0.17% | 0.020% |
| 9 | 2.974 | 585 | 586 | 597 | rVV9 | 3697 | 4198 | 0.18% | 0.022% |
| 10 | 3.071 | 614 | 616 | 621 | rVB5 | 981 | 831 | 0.04% | 0.004% |
| 11 | 3.280 | 676 | 681 | 682 | rBV4 | 1638 | 963 | 0.04% | 0.005% |
| 12 | 3.434 | 725 | 729 | 731 | rVB4 | 1451 | 1193 | 0.05% | 0.006% |
| 13 | 3.463 | 736 | 738 | 741 | rBV2 | 1462 | 1131 | 0.05% | 0.006% |
| 14 | 3.543 | 758 | 763 | 767 | rBV6 | 1042 | 871 | 0.04% | 0.005% |
| 15 | 3.614 | 783 | 785 | 792 | rBV3 | 1634 | 1348 | 0.06% | 0.007% |
| 16 | 3.646 | 792 | 795 | 799 | rBV6 | 1589 | 1160 | 0.05% | 0.006% |
| 17 | 3.714 | 812 | 816 | 819 | rVB4 | 1284 | 953 | 0.04% | 0.005% |
| 18 | 3.733 | 819 | 822 | 826 | rBV2 | 893 | 930 | 0.04% | 0.005% |
| 19 | 3.862 | 857 | 862 | 864 | rBV4 | 1433 | 1436 | 0.06% | 0.008% |
| 20 | 3.984 | 896 | 900 | 902 | rBV3 | 1292 | 981 | 0.04% | 0.005% |
| 21 | 4.048 | 915 | 920 | 923 | rBV5 | 1353 | 1433 | 0.06% | 0.008% |
| 22 | 4.080 | 928 | 930 | 937 | rVB6 | 1334 | 1263 | 0.06% | 0.007% |
| 23 | 4.151 | 937 | 952 | 981 | rBV2 | 224520 | 620724 | 27.32% | 3.288% |
| 24 | 4.547 | 1072 | 1075 | 1078 | rVB3 | 1613 | 925 | 0.04% | 0.005% |
| 25 | 4.621 | 1081 | 1098 | 1126 | rBV | 366954 | 890261 | 39.18% | 4.716% |
| 26 | 4.839 | 1164 | 1166 | 1169 | rBV4 | 1588 | 1038 | 0.05% | 0.005% |
| 27 | 4.948 | 1195 | 1200 | 1201 | rBV4 | 1967 | 1521 | 0.07% | 0.008% |
| 28 | 4.971 | 1201 | 1207 | 1212 | rVV8 | 2577 | 3223 | 0.14% | 0.017% |
| 29 | 5.193 | 1272 | 1276 | 1278 | rBV4 | 1631 | 1288 | 0.06% | 0.007% |
| 30 | 5.315 | 1292 | 1314 | 1338 | rBV2 | 763369 | 2272060 | 100.00% | 12.035% |
| 31 | 5.588 | 1396 | 1399 | 1401 | rBV4 | 1679 | 915 | 0.04% | 0.005% |
| 32 | 5.736 | 1438 | 1445 | 1446 | rBV6 | 2287 | 2152 | 0.09% | 0.011% |
| 33 | 5.865 | 1472 | 1485 | 1501 | rBV | 628928 | 1277691 | 56.23% | 6.768% |
| 34 | 6.309 | 1610 | 1623 | 1643 | rBV2 | 527303 | 1057031 | 46.52% | 5.599% |

LSC Area Percent Report

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Operator : JC/SP
Sample : K4984-01
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BEDP2

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 | 6.717 | 1747 | 1750 | 1753 | rBV4 | 1597 | 1211 | 0.05% | 0.006% |
| 36 | 6.801 | 1770 | 1776 | 1779 | rBV8 | 1643 | 2016 | 0.09% | 0.011% |
| 37 | 7.026 | 1844 | 1846 | 1853 | rVB8 | 1929 | 1892 | 0.08% | 0.010% |
| 38 | 7.055 | 1853 | 1855 | 1858 | rBV3 | 1460 | 843 | 0.04% | 0.004% |
| 39 | 7.077 | 1858 | 1862 | 1865 | rBV4 | 2246 | 2332 | 0.10% | 0.012% |
| 40 | 7.206 | 1891 | 1902 | 1924 | rBV2 | 305911 | 575494 | 25.33% | 3.048% |
| 41 | 7.460 | 1979 | 1981 | 1985 | rVB4 | 1368 | 915 | 0.04% | 0.005% |
| 42 | 7.543 | 1992 | 2007 | 2025 | rBV | 1017215 | 1782226 | 78.44% | 9.440% |
| 43 | 7.829 | 2082 | 2096 | 2116 | rBV | 210772 | 399455 | 17.58% | 2.116% |
| 44 | 7.977 | 2140 | 2142 | 2145 | rBV4 | 1649 | 1273 | 0.06% | 0.007% |
| 45 | 8.157 | 2194 | 2198 | 2205 | rVB6 | 3888 | 4404 | 0.19% | 0.023% |
| 46 | 8.209 | 2206 | 2214 | 2225 | rVB6 | 9058 | 17636 | 0.78% | 0.093% |
| 47 | 8.289 | 2228 | 2239 | 2274 | rBV | 713267 | 1369417 | 60.27% | 7.254% |
| 48 | 8.582 | 2325 | 2330 | 2339 | rVV10 | 5470 | 7332 | 0.32% | 0.039% |
| 49 | 8.633 | 2343 | 2346 | 2350 | rVB5 | 2449 | 1715 | 0.08% | 0.009% |
| 50 | 8.855 | 2412 | 2415 | 2418 | rVB5 | 2096 | 1503 | 0.07% | 0.008% |
| 51 | 8.878 | 2418 | 2422 | 2423 | rBV3 | 2029 | 1453 | 0.06% | 0.008% |
| 52 | 9.067 | 2468 | 2481 | 2509 | rBV | 940500 | 1613975 | 71.04% | 8.549% |
| 53 | 9.228 | 2524 | 2531 | 2540 | rVB5 | 7850 | 13569 | 0.60% | 0.072% |
| 54 | 9.421 | 2588 | 2591 | 2600 | rVB5 | 5653 | 6834 | 0.30% | 0.036% |
| 55 | 9.530 | 2621 | 2625 | 2626 | rBV3 | 1307 | 854 | 0.04% | 0.005% |
| 56 | 9.601 | 2642 | 2647 | 2648 | rBV4 | 1815 | 1296 | 0.06% | 0.007% |
| 57 | 9.652 | 2657 | 2663 | 2665 | rBV6 | 1559 | 1524 | 0.07% | 0.008% |
| 58 | 9.697 | 2667 | 2677 | 2681 | rBV8 | 5450 | 8926 | 0.39% | 0.047% |
| 59 | 9.755 | 2692 | 2695 | 2696 | rBV3 | 3316 | 1890 | 0.08% | 0.010% |
| 60 | 9.929 | 2744 | 2749 | 2758 | rVB10 | 6052 | 10155 | 0.45% | 0.054% |
| 61 | 9.974 | 2759 | 2763 | 2766 | rBV5 | 2108 | 1415 | 0.06% | 0.007% |
| 62 | 10.029 | 2772 | 2780 | 2788 | rVB10 | 7178 | 12640 | 0.56% | 0.067% |
| 63 | 10.148 | 2808 | 2817 | 2824 | rBV3 | 10131 | 17650 | 0.78% | 0.093% |
| 64 | 10.296 | 2858 | 2863 | 2865 | rBV4 | 1503 | 1648 | 0.07% | 0.009% |
| 65 | 10.408 | 2885 | 2898 | 2913 | rBV | 673938 | 1102527 | 48.53% | 5.840% |
| 66 | 10.572 | 2939 | 2949 | 2960 | rVB3 | 10622 | 21089 | 0.93% | 0.112% |
| 67 | 10.659 | 2969 | 2976 | 2984 | rBV | 15600 | 27379 | 1.21% | 0.145% |
| 68 | 10.749 | 2996 | 3004 | 3012 | rVB4 | 9082 | 14696 | 0.65% | 0.078% |
| 69 | 10.951 | 3057 | 3067 | 3079 | rBV2 | 15513 | 29680 | 1.31% | 0.157% |
| 70 | 11.128 | 3113 | 3122 | 3131 | rBV3 | 16145 | 28428 | 1.25% | 0.151% |
| 71 | 11.218 | 3146 | 3150 | 3152 | rBV3 | 2140 | 1824 | 0.08% | 0.010% |

LSC Area Percent Report

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Acq On : 20 Sep 2019 14:58
Operator : JC/SP
Sample : K4984-01
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BEDP2

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 | 11.250 | 3156 | 3160 | 3161 | rVV4 | 1961 | 1005 | 0.04% | 0.005% |
| 73 | 11.263 | 3161 | 3164 | 3168 | rVV5 | 3569 | 3056 | 0.13% | 0.016% |
| 74 | 11.302 | 3169 | 3176 | 3186 | rVB3 | 13732 | 21512 | 0.95% | 0.114% |
| 75 | 11.373 | 3194 | 3198 | 3200 | rBV4 | 3297 | 2799 | 0.12% | 0.015% |
| 76 | 11.405 | 3202 | 3208 | 3213 | rVV4 | 7961 | 10357 | 0.46% | 0.055% |
| 77 | 11.459 | 3214 | 3225 | 3247 | rVV | 894852 | 1445770 | 63.63% | 7.658% |
| 78 | 11.752 | 3306 | 3316 | 3322 | rBV7 | 14750 | 30080 | 1.32% | 0.159% |
| 79 | 11.836 | 3331 | 3342 | 3371 | rVB | 918225 | 1560010 | 68.66% | 8.263% |
| 80 | 12.035 | 3397 | 3404 | 3413 | rVB2 | 16383 | 26254 | 1.16% | 0.139% |
| 81 | 12.125 | 3426 | 3432 | 3437 | rBV4 | 13575 | 17837 | 0.79% | 0.094% |
| 82 | 12.231 | 3458 | 3465 | 3473 | rBV3 | 14838 | 23306 | 1.03% | 0.123% |
| 83 | 12.334 | 3489 | 3497 | 3503 | rBV3 | 14177 | 22057 | 0.97% | 0.117% |
| 84 | 12.472 | 3534 | 3540 | 3549 | rVB7 | 11726 | 18257 | 0.80% | 0.097% |
| 85 | 12.601 | 3574 | 3580 | 3582 | rBV7 | 5178 | 5257 | 0.23% | 0.028% |
| 86 | 12.685 | 3600 | 3606 | 3620 | rVB3 | 15214 | 25309 | 1.11% | 0.134% |
| 87 | 12.768 | 3626 | 3632 | 3638 | rBV7 | 12895 | 17422 | 0.77% | 0.092% |
| 88 | 13.009 | 3703 | 3707 | 3714 | rVB7 | 7634 | 9472 | 0.42% | 0.050% |
| 89 | 13.067 | 3716 | 3725 | 3728 | rBV4 | 16645 | 26590 | 1.17% | 0.141% |
| 90 | 13.102 | 3732 | 3736 | 3751 | rVB7 | 40203 | 64033 | 2.82% | 0.339% |
| 91 | 13.266 | 3780 | 3787 | 3795 | rVB5 | 25798 | 38317 | 1.69% | 0.203% |
| 92 | 13.389 | 3820 | 3825 | 3831 | rBV8 | 8048 | 9832 | 0.43% | 0.052% |
| 93 | 13.437 | 3832 | 3840 | 3848 | rBV3 | 18109 | 27056 | 1.19% | 0.143% |
| 94 | 13.492 | 3849 | 3857 | 3872 | rVV7 | 26942 | 57280 | 2.52% | 0.303% |
| 95 | 13.839 | 3957 | 3965 | 3973 | rBV4 | 28623 | 46636 | 2.05% | 0.247% |
| 96 | 13.929 | 3988 | 3993 | 4003 | rVB6 | 25960 | 42207 | 1.86% | 0.224% |
| 97 | 14.131 | 4048 | 4056 | 4069 | rBV5 | 21321 | 39797 | 1.75% | 0.211% |
| 98 | 14.331 | 4104 | 4118 | 4129 | rBV5 | 64524 | 144932 | 6.38% | 0.768% |
| 99 | 14.656 | 4209 | 4219 | 4234 | rBV4 | 40463 | 83497 | 3.67% | 0.442% |
| 100 | 14.842 | 4269 | 4277 | 4291 | rBV7 | 42641 | 112717 | 4.96% | 0.597% |

Sum of corrected areas: 18878950

LSC Report - Integrated Chromatogram

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092019\
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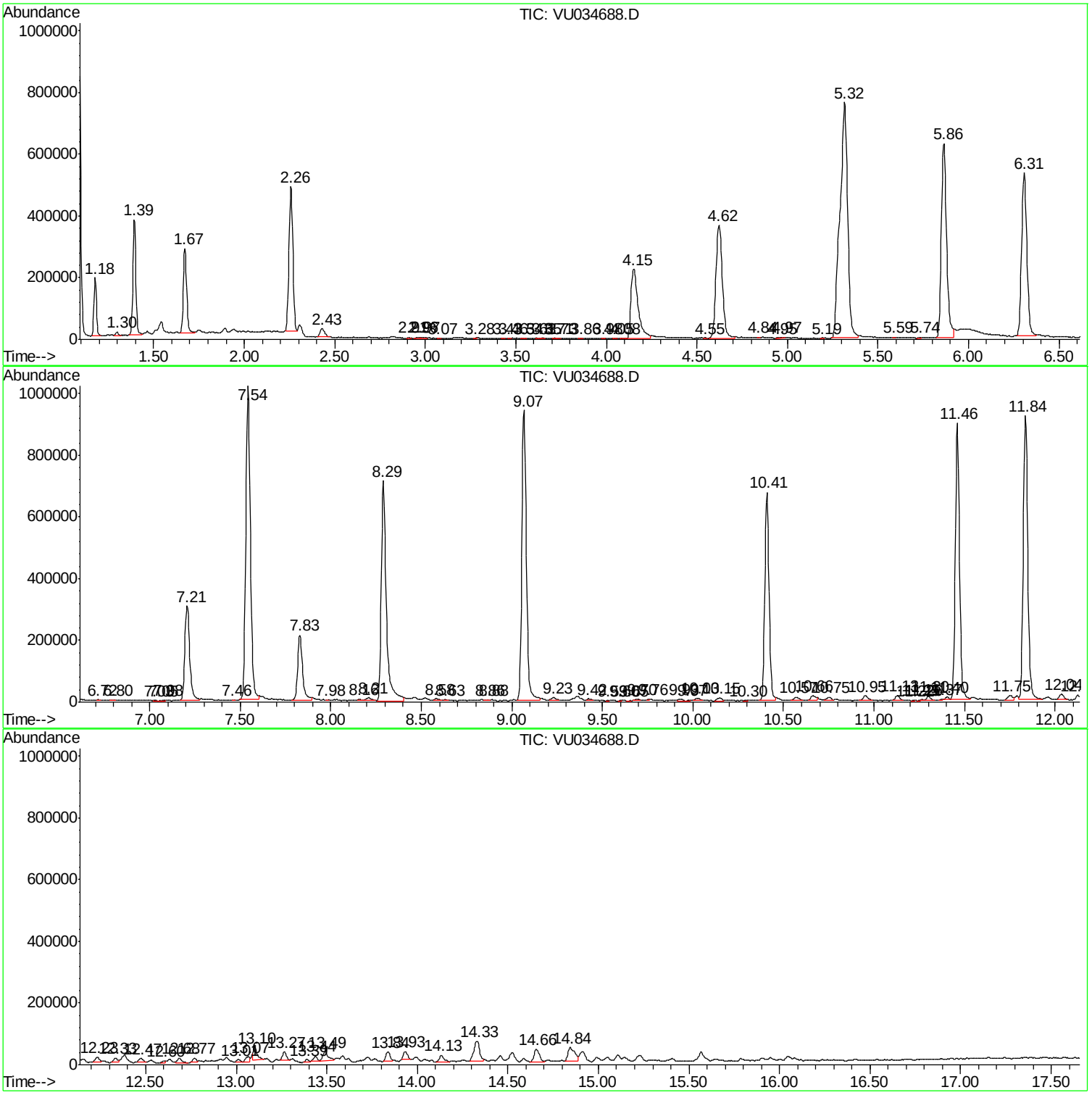
Acq On : 20 Sep 2019 14:58
Operator : JC/SP
Sample : K4984-01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BEDP2

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 : VU034688.D
Acq On : 20 Sep 2019 14:58
Operator : JC/SP
Sample : K4984-01
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BEDP2

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

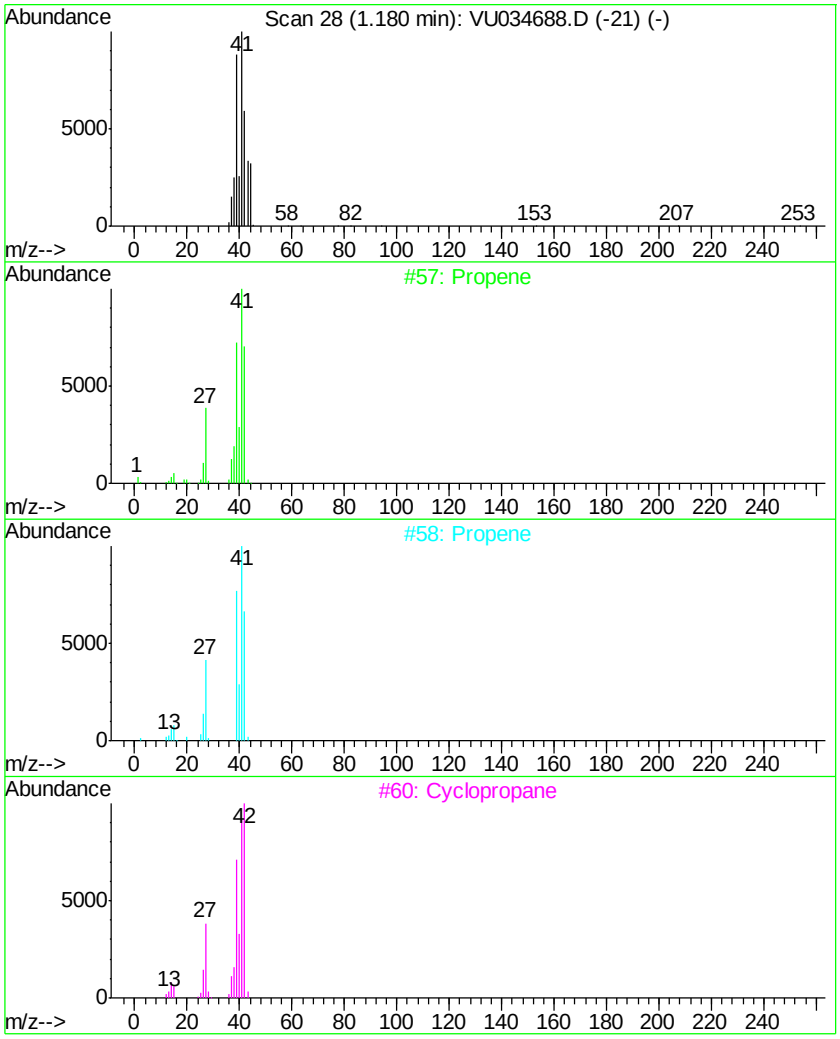
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

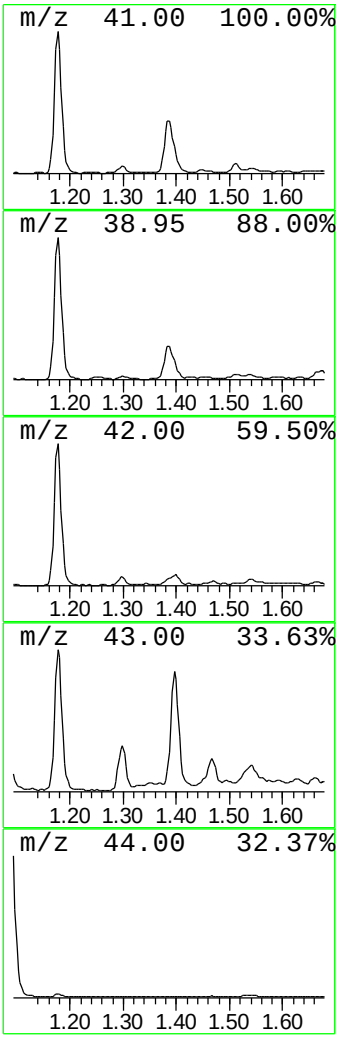
**********

Peak Number 1 (DEL) Alkane: Cyclic1.18 Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 1.18 | 7.03 ug/L | 179542 | 1,4-Difluorobenzene | 5.86 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Propene | 42 | C3H6 | 000115-07-1 | 90 |
| 2 | Propene | 42 | C3H6 | 000115-07-1 | 42 |
| 3 | Cyclopropane | 42 | C3H6 | 000075-19-4 | 7 |
| 4 | Cyclopropene | 40 | C3H4 | 002781-85-3 | 5 |
| 5 | Cyclopropane | 42 | C3H6 | 000075-19-4 | 4 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092019\
Data File : VU034688.D
Acq On : 20 Sep 2019 14:58
Operator : JC/SP
Sample : K4984-01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BEDP2

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

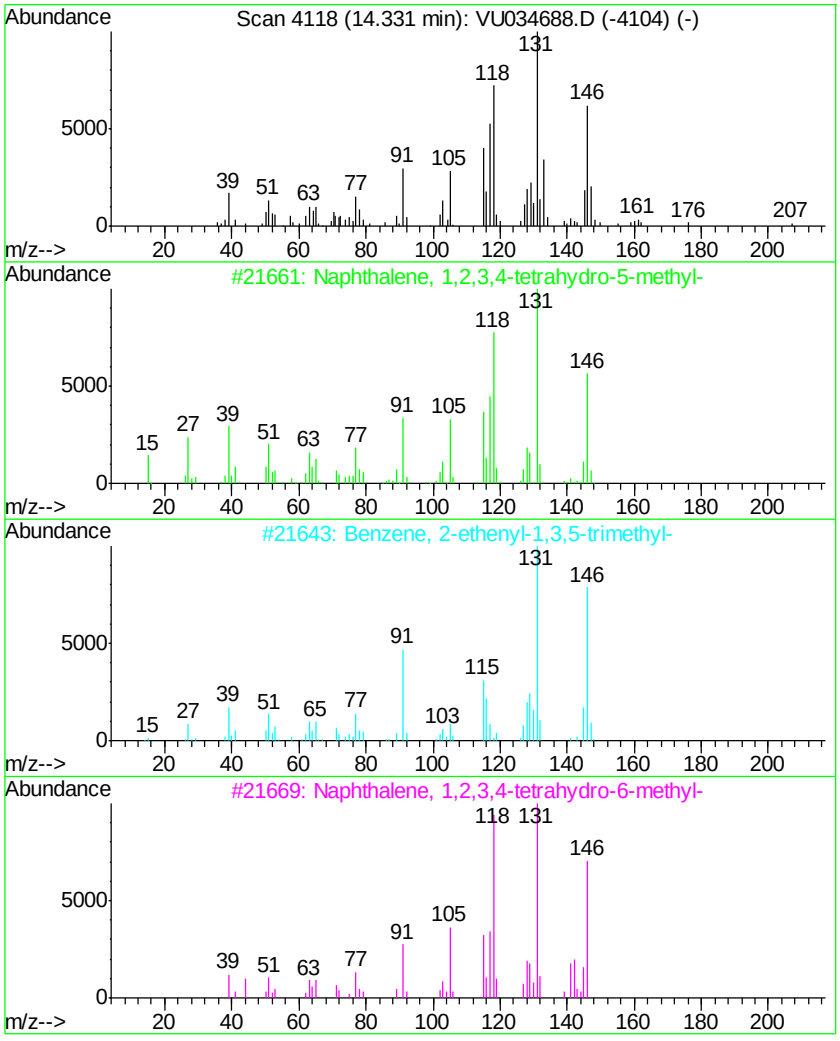
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

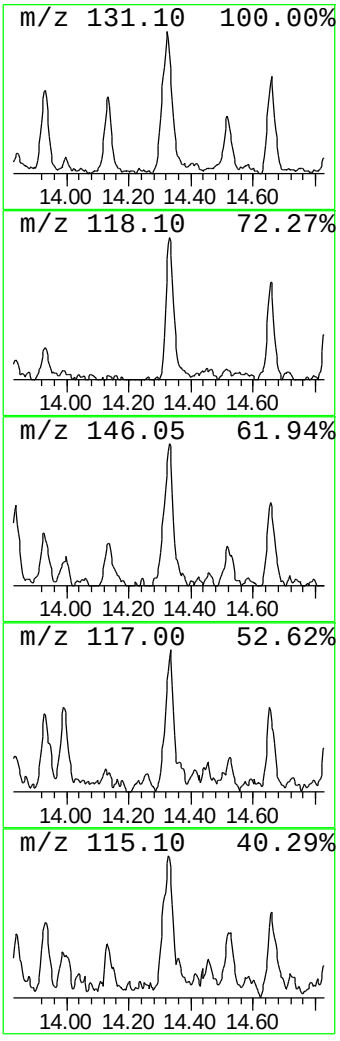
**********

Peak Number 3 Naphthalene, 1,2,3,4-tetrah... Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.33 | 5.01 ug/L | 144932 | 1,4-Dichlorobenzene-d4 | 11.46 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1,2,3,4-tetrahydro-... | 146 | C11H14 | 002809-64-5 | 93 |
| 2 | Benzene, 2-ethenyl-1,3,5-trimethyl- | 146 | C11H14 | 000769-25-5 | 90 |
| 3 | Naphthalene, 1,2,3,4-tetrahydro-... | 146 | C11H14 | 001680-51-9 | 86 |
| 4 | Naphthalene, 1,2,3,4-tetrahydro-... | 146 | C11H14 | 002809-64-5 | 62 |
| 5 | Bicyclo[4.2.0]octa-1,3,5-triene,... | 118 | C9H10 | 022250-74-4 | 59 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092019\
Data File : VU034688.D
Acq On : 20 Sep 2019 14:58
Operator : JC/SP
Sample : K4984-01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BEDP2

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

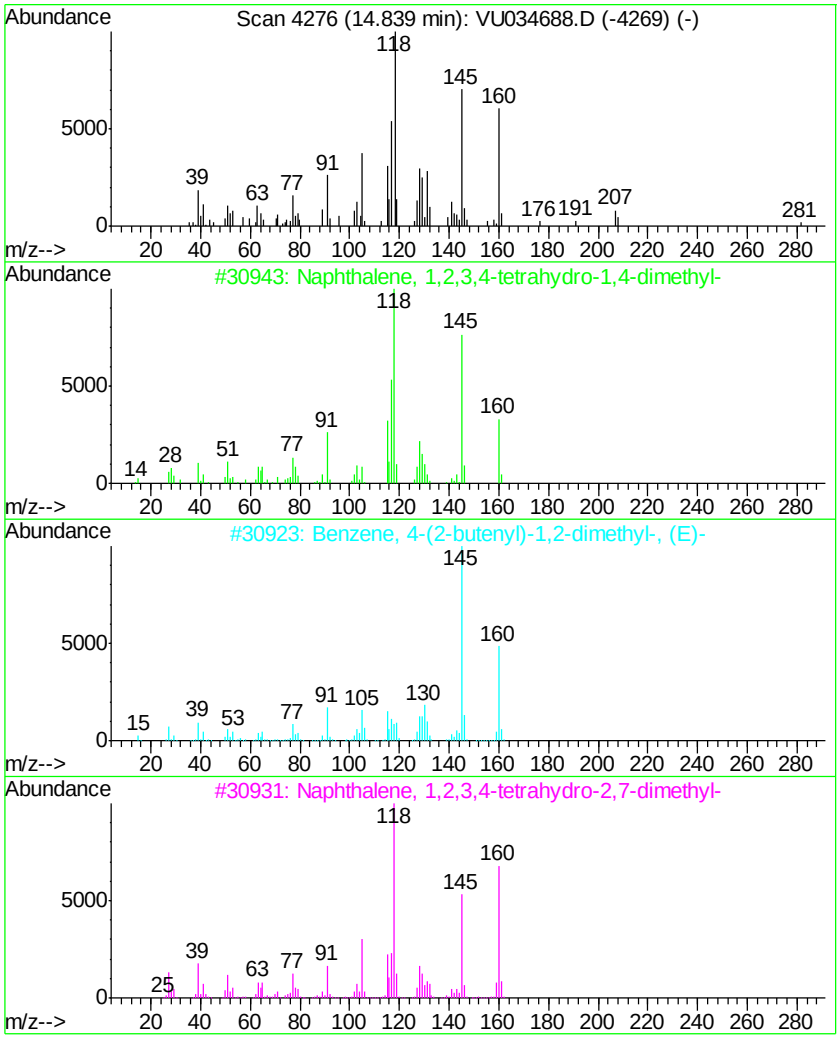
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

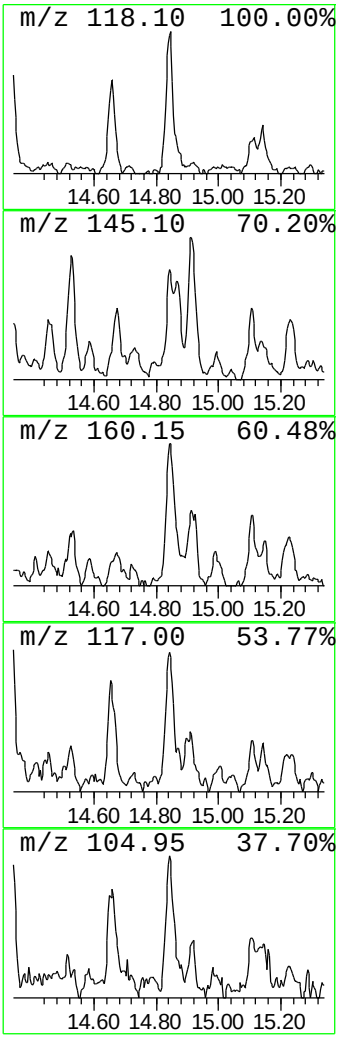
**********

Peak Number 5 Naphthalene, 1,2,3,4-tetrah... Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.84 | 3.90 ug/L | 112717 | 1,4-Dichlorobenzene-d4 | 11.46 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1,2,3,4-tetrahydro-... | 160 | C12H16 | 004175-54-6 | 89 |
| 2 | Benzene, 4-(2-butenyl)-1,2-dimet... | 160 | C12H16 | 054340-86-2 | 83 |
| 3 | Naphthalene, 1,2,3,4-tetrahydro-... | 160 | C12H16 | 013065-07-1 | 70 |
| 4 | Naphthalene, 1,2,3,4-tetrahydro-... | 160 | C12H16 | 021564-91-0 | 62 |
| 5 | Naphthalene, 1,2,3,4-tetrahydro-... | 160 | C12H16 | 007524-63-2 | 62 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092019\
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Sample : K4984-01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BEDP2

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 | 7.0 | ug/L | 179542 | 1 | 5.86 | 1277690 | 50.0 |
| Naphthalene, 1,2,... | 14.33 | 5.0 | ug/L | 144932 | 3 | 11.46 | 1445770 | 50.0 |
| Naphthalene, 1,2,... | 14.84 | 3.9 | ug/L | 112717 | 3 | 11.46 | 1445770 | 50.0 |