

参考データ

(1) 駐車中の車両由来 VOC の発生状況に関する基礎的調査

表 1 試験条件 W1 の VOC 排出量 (ppb) の経時変化

| 成分名 | 0h | 0.5h | 1h | 3h | 24h | 72h | 168h |
|-------------------------------|--------|--------|--------|--------|---------|----------|----------|
| 1 ethane | 1.710 | 1.710 | 1.809 | 1.382 | 4.362 | 10.538 | 18.163 |
| 2 ethylene | 1.244 | 1.219 | 1.410 | 0.864 | 1.709 | 2.746 | 6.688 |
| 3 propane | 6.942 | 6.791 | 7.003 | 6.462 | 14.895 | 96.819 | 246.611 |
| 4 propene | 0.435 | 0.429 | 0.424 | 0.489 | 0.810 | 3.762 | 6.325 |
| 5 isobutane | 8.108 | 8.222 | 8.061 | 9.730 | 30.195 | 775.154 | 2647.871 |
| 6 n-butane | 19.556 | 20.020 | 20.507 | 23.411 | 56.156 | 1204.457 | 5553.743 |
| 7 acetylene | 0.1 | 0.532 | 0.695 | 0.1 | 0.1 | 0.4 | 0.591 |
| 8 t-2-butene | 2.538 | 2.669 | 3.207 | 3.699 | 16.636 | 228.010 | 729.669 |
| 9 1-butene | 1.530 | 1.554 | 1.722 | 1.703 | 4.974 | 120.389 | 393.635 |
| 10 c-2-butene | 2.536 | 2.705 | 3.231 | 3.579 | 13.823 | 188.641 | 608.360 |
| 11 isopentane | 36.12 | 37.690 | 37.092 | 46.485 | 126.612 | 1014.931 | 4249.286 |
| 12 pentane | 17.419 | 19.063 | 20.085 | 28.073 | 95.326 | 593.583 | 1690.611 |
| 13 1,3-butadiene | 1.734 | 0.1 | 0.1 | 0.1 | 0.247 | 1.367 | 4.154 |
| 14 trans-2-pentene | 4.675 | 4.711 | 5.315 | 7.472 | 37.258 | 112.596 | 904.466 |
| 15 1-pentene | 2.209 | 2.289 | 2.437 | 3.329 | 12.746 | 43.506 | 347.166 |
| 16 cis-2-penten | 2.820 | 2.975 | 3.317 | 4.752 | 19.354 | 65.698 | 513.077 |
| 17 isoprene | 0.469 | 0.462 | 0.623 | 0.723 | 5.234 | 19.217 | 60.377 |
| 18 2,2-dimethylbutane | 0.369 | 0.299 | 0.305 | 0.375 | 0.802 | 2.133 | 5.968 |
| 19 cyclopentane | 2.606 | 2.770 | 3.232 | 4.066 | 13.290 | 55.148 | 296.246 |
| 20 2,3-dimethyl-butane | 3.604 | 3.645 | 4.179 | 5.724 | 17.097 | 75.226 | 348.760 |
| 21 2-methyl-pentane | 10.012 | 11.238 | 13.125 | 21.819 | 67.748 | 399.171 | 1655.249 |
| 22 3-methyl-pentane | 6.543 | 7.209 | 8.400 | 12.957 | 38.365 | 237.861 | 995.006 |
| 23 2-methyl-1-pentene | 1.158 | 1.909 | 2.113 | 3.360 | 8.061 | 26.692 | 108.768 |
| 24 hexane | 4.231 | 6.026 | 7.526 | 13.785 | 55.650 | 368.568 | 1248.569 |
| 25 methylcyclopentane | 3.733 | 4.430 | 5.322 | 8.655 | 25.708 | 83.094 | 457.823 |
| 26 2,4-dimethylpentane | 0.633 | 0.691 | 0.811 | 1.062 | 2.925 | 11.434 | 35.216 |
| 27 benzene | 1.937 | 3.296 | 4.502 | 9.656 | 42.466 | 79.741 | 323.209 |
| 28 cyclohexane | 0.360 | 0.601 | 0.891 | 1.989 | 6.288 | 16.292 | 29.162 |
| 29 2-methylhexane | 0.711 | 1.000 | 1.382 | 2.403 | 9.182 | 29.545 | 59.622 |
| 30 2,3-dimethylpentane | 0.446 | 0.665 | 0.910 | 1.657 | 6.229 | 33.636 | 66.799 |
| 31 3-methylhexane | 0.749 | 1.134 | 1.609 | 2.895 | 10.797 | 34.108 | 65.420 |
| 32 2,2,4-trimethylpentane | 1.726 | 1.780 | 2.069 | 2.486 | 6.520 | 17.025 | 42.613 |
| 33 heptane | 0.266 | 0.518 | 0.826 | 1.774 | 6.410 | 12.881 | 16.381 |
| 34 methylcyclohexane | 0.357 | 0.488 | 0.680 | 1.337 | 3.287 | 8.830 | 14.046 |
| 35 2,3,4-trimethylpentane | 0.485 | 0.971 | 0.613 | 0.891 | 2.570 | 5.584 | 9.277 |
| 36 toluene | 5.133 | 12.682 | 21.178 | 58.770 | 109.208 | 229.769 | 318.280 |
| 37 2-methylheptane | 0.120 | 0.174 | 0.241 | 0.412 | 0.900 | 2.082 | 3.089 |
| 38 3-methylheptane | 0.117 | 0.188 | 0.273 | 0.461 | 1.039 | 2.306 | 3.320 |
| 39 octane | 0.125 | 0.162 | 0.220 | 0.367 | 0.586 | 1.032 | 1.366 |
| 40 ethylbenzene | 0.989 | 1.640 | 2.387 | 3.981 | 5.665 | 8.320 | 11.120 |
| 41 m-xylene | 1.034 | 2.218 | 3.532 | 6.036 | 9.925 | 14.455 | 18.908 |
| 42 p-xylene | 0.351 | 0.659 | 1.028 | 1.861 | 2.920 | 3.845 | 4.701 |
| 43 styrene | 0.760 | 1.655 | 2.692 | 4.319 | 4.241 | 5.253 | 5.141 |
| 44 o-xylene | 4.438 | 5.873 | 7.551 | 9.515 | 20.200 | 15.181 | 35.930 |
| 45 nonane | 0.614 | 0.795 | 1.035 | 1.398 | 4.163 | 1.785 | 2.783 |
| 46 isopropylbenzene | 0.4 | 0.555 | 0.724 | 0.940 | 3.131 | 1.359 | 2.058 |
| 47 alpha-pinene | 0.508 | 0.787 | 1.109 | 1.624 | 1.222 | 1.460 | 1.603 |
| 48 propylbenzene | 1.013 | 1.279 | 1.693 | 2.179 | 8.574 | 2.603 | 3.987 |
| 49 m-ethyltoluene | 3.111 | 3.669 | 5.203 | 6.375 | 24.483 | 3.952 | 6.316 |
| 50 p-ethyltoluene | 1.596 | 2.019 | 2.739 | 3.316 | 12.295 | 3.952 | 6.316 |
| 51 1,3,5-trimethylbenzene | 1.425 | 1.979 | 2.630 | 3.258 | 14.463 | 2.543 | 7.677 |
| 52 o-ethyltoluene | 1.241 | 1.659 | 2.222 | 2.771 | 13.127 | 2.810 | 6.779 |
| 53 beta-pinene | 0.169 | 0.193 | 0.359 | 0.311 | 0.790 | 0.3 | 0.324 |
| 54 1,2,4-trimethylbenzene | 3.802 | 5.025 | 6.687 | 8.688 | 39.492 | 13.341 | 28.700 |
| 55 n-decane | 4.782 | 16.487 | 22.380 | 26.283 | 32.824 | 13.471 | 17.090 |
| 56 1,2,3-trimethylbenzene | 1.853 | 2.564 | 3.318 | 3.851 | 15.542 | 5.474 | 10.742 |
| 57 m-diethylbenzene | 0.561 | 0.360 | 0.910 | 0.657 | 5.949 | 0.380 | 0.562 |
| 58 p-diethylbenzene | 0.507 | 0.437 | 0.978 | 0.768 | 5.575 | 0.430 | 0.4 |
| 59 undecane | 1.563 | 2.816 | 3.855 | 4.698 | 8.697 | 1.547 | 2.796 |
| 60 isobutene | 1.414 | 1.613 | 1.694 | 2.789 | 6.131 | 107.070 | 372.733 |
| 61 3-methyl-1-butene | 0.1 | 0.1 | 0.1 | 0.2 | 5.423 | 20.397 | 91.401 |
| 62 2-methyl-1-butene | 3.313 | 6.055 | 4.455 | 6.347 | 24.052 | 123.360 | 477.370 |
| 63 2-methyl-2-butene | 3.051 | 4.294 | 4.400 | 8.405 | 39.123 | 169.629 | 614.000 |
| 64 c-1,3-pentadiene | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.2 | 0.2 |
| 65 t-1,3-pentadiene | 0.1 | 0.1 | 0.1 | 0.3 | 0.1 | 0.3 | 0.3 |
| 66 1-hexene | 0.1 | 0.4 | 0.4 | 1 | 5.777 | 24.926 | 66.131 |
| 67 c-3-hexene | 0.1 | 0.1 | 0.1 | 0.2 | 1.617 | 7.179 | 17.892 |
| 68 c-2-hexene | 0.1 | 0.1 | 0.1 | 0.2 | 4.427 | 16.571 | 49.226 |
| 69 c-3-methyl-2-pentene | 0.1 | 0.03 | 0.03 | 0.1 | 2.281 | 8.064 | 34.510 |
| 70 t-2-hexene | 0.1 | 0.1 | 0.1 | 0.3 | 3.586 | 12.222 | 33.763 |
| 71 t-3-methyl-2-pentene | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.2 | 0.2 |
| 72 ETBE | 0.1 | 0.1 | 3.688 | 5.651 | 21.146 | 67.690 | 150.140 |
| 73 1-heptene | 0.1 | 0.1 | 0.1 | 0.2 | 0.06 | 0.2 | 0.2 |
| 74 2-ethyl-p-xylene | 0.1 | 0.1 | 0.339 | 0.1 | 6.286 | 0.1 | 0.1 |
| 75 4-ethyl-m-xylene | 0.1 | 0.06 | 0.383 | 0.657 | 5.768 | 0.1 | 0.1 |
| 76 1,2,3,5-tetramethylbenzene | 0.1 | 0.1 | 0.380 | 0.1 | 3.566 | 0.1 | 0.1 |

* 赤字は測定値が検出下限値(3s)未満のため、検出下限値に希釈倍率をかけた有効数字1桁で表示。希釈倍率はサンプリング時間ごとに異なる。
 * 検出下限値(3s)以上、定量下限値(10s)未満の値はセルをオレンジ色に変更。
 * 検出下限値以外は、値の小さい成分の桁数に合わせて小数点以下3桁で表示しているが、有効数字は3桁。
 * サンプリング、または濃縮段階での異常と考えられる値はセルを青色に変更

表 2 試験条件 W2 の VOC 排出量 (ppb) の経時変化

| 成分名 | 0h | 0.5h | 1h | 3h | 24h | 72h | 168h |
|-------------------------------|-------|--------|--------|--------|---------|----------|----------|
| 1 ethane | 4.615 | 4.901 | 5.028 | 14.016 | 33.724 | 54.479 | 73.094 |
| 2 ethylene | 2.799 | 3.107 | 2.981 | 2.978 | 3.659 | 4.373 | 4.878 |
| 3 propane | 3.985 | 3.763 | 3.956 | 8.689 | 123.485 | 309.810 | 437.013 |
| 4 propene | 0.962 | 0.892 | 0.928 | 1.018 | 3.561 | 8.256 | 10.537 |
| 5 isobutane | 4.059 | 2.910 | 3.244 | 4.950 | 364.193 | 2684.777 | 4001.759 |
| 6 n-butane | 0.459 | 5.714 | 7.174 | 14.706 | 481.292 | 4699.767 | 9220.091 |
| 7 acetylene | 0.2 | 1.418 | 1.348 | 1.559 | 1.730 | 2.426 | 0.530 |
| 8 t-2-butene | 0.595 | 0.853 | 1.111 | 2.643 | 67.298 | 457.629 | 847.882 |
| 9 1-butene | 0.944 | 0.497 | 0.571 | 0.860 | 44.625 | 402.327 | 1405.950 |
| 10 c-2-butene | 0.04 | 0.747 | 0.961 | 2.380 | 55.462 | 754.820 | 2029.800 |
| 11 isopentane | 0.07 | 0.05 | 10.185 | 27.391 | 301.990 | 1538.093 | 3691.423 |
| 12 pentane | 1.879 | 5.253 | 8.245 | 24.847 | 215.485 | 1820.209 | 7569.545 |
| 13 1,3-butadiene | 0.225 | 0.080 | 0.122 | 0.165 | 0.599 | 4.131 | 0.510 |
| 14 trans-2-pentene | 0.974 | 1.690 | 2.585 | 6.808 | 48.723 | 298.511 | 1640.955 |
| 15 1-pentene | 0.8 | 0.6 | 0.797 | 2.119 | 17.019 | 145.009 | 546.486 |
| 16 cis-2-penten | 0.297 | 0.844 | 1.315 | 3.729 | 28.298 | 184.106 | 1170.033 |
| 17 isoprene | 0.08 | 0.174 | 0.339 | 0.939 | 7.214 | 63.898 | 195.001 |
| 18 2,2-dimethylbutane | 0.152 | 0.256 | 0.191 | 0.285 | 1.057 | 3.599 | 11.366 |
| 19 cyclopentane | 0.249 | 0.531 | 0.882 | 2.610 | 24.996 | 117.930 | 446.580 |
| 20 2,3-dimethyl-butane | 1.107 | 2.329 | 4.198 | 15.484 | 81.733 | 456.807 | 1929.745 |
| 21 2-methyl-pentane | 1.133 | 2.382 | 4.239 | 15.551 | 80.688 | 450.411 | 1897.400 |
| 22 3-methyl-pentane | 0.832 | 1.661 | 2.799 | 8.845 | 54.319 | 271.895 | 1054.695 |
| 23 2-methyl-1-pentene | 0.138 | 0.307 | 0.489 | 1.427 | 10.336 | 52.207 | 194.813 |
| 24 hexane | 1.117 | 2.463 | 3.653 | 10.685 | 61.041 | 398.549 | 1301.418 |
| 25 methylcyclopentane | 0.768 | 1.205 | 1.822 | 5.578 | 36.990 | 138.713 | 384.809 |
| 26 2,4-dimethylpentane | 0.134 | 0.173 | 0.236 | 0.697 | 6.085 | 23.016 | 65.744 |
| 27 benzene | 2.023 | 3.336 | 4.217 | 9.845 | 60.948 | 381.723 | 724.404 |
| 28 cyclohexane | 0.161 | 0.277 | 0.394 | 1.056 | 10.010 | 21.227 | 41.775 |
| 29 2-methylhexane | 0.351 | 0.576 | 0.828 | 2.085 | 17.755 | 84.306 | 173.607 |
| 30 2,3-dimethylpentane | 0.158 | 0.248 | 0.326 | 0.922 | 6.818 | 26.569 | 70.509 |
| 31 3-methylhexane | 0.399 | 0.650 | 0.981 | 2.479 | 19.891 | 90.649 | 195.551 |
| 32 2,2,4-trimethylpentane | 0.689 | 0.811 | 1.034 | 2.335 | 16.397 | 59.526 | 136.062 |
| 33 heptane | 0.177 | 0.288 | 0.464 | 1.257 | 15.303 | 31.364 | 51.181 |
| 34 methylcyclohexane | 0.302 | 0.372 | 0.511 | 1.299 | 8.000 | 25.781 | 45.884 |
| 35 2,3,4-trimethylpentane | 0.623 | 0.312 | 0.493 | 1.080 | 6.080 | 21.464 | 40.980 |
| 36 toluene | 9.328 | 21.453 | 37.853 | 82.753 | 277.893 | 1141.131 | 2435.218 |
| 37 2-methylheptane | 0.095 | 0.115 | 0.156 | 0.300 | 2.275 | 10.547 | 19.584 |
| 38 3-methylheptane | 0.1 | 0.11 | 0.169 | 0.322 | 2.482 | 10.792 | 19.739 |
| 39 octane | 0.104 | 0.10 | 0.136 | 0.204 | 1.376 | 5.833 | 10.581 |
| 40 ethylbenzene | 0.759 | 0.982 | 1.323 | 1.969 | 10.295 | 27.629 | 42.413 |
| 41 m-xylene | 0.884 | 1.360 | 2.010 | 2.983 | 16.996 | 40.728 | 43.082 |
| 42 p-xylene | 0.288 | 0.432 | 0.644 | 0.947 | 6.351 | 17.515 | 27.955 |
| 43 styrene | 0.134 | 0.181 | 0.201 | 0.269 | 1.305 | 3.293 | 6.511 |
| 44 o-xylene | 3.033 | 3.480 | 4.560 | 5.335 | 21.996 | 45.192 | 55.754 |
| 45 nonane | 0.282 | 0.257 | 0.263 | 0.195 | 0.729 | 1.626 | 3.376 |
| 46 isopropylbenzene | 0.2 | 0.2 | 0.2 | 0.1 | 0.479 | 1.188 | 2.427 |
| 47 alpha-pinene | 1.038 | 0.813 | 0.817 | 0.848 | 1.147 | 1.663 | 3.163 |
| 48 propylbenzene | 0.233 | 0.324 | 0.396 | 0.417 | 1.564 | 3.945 | 8.277 |
| 49 m-ethyltoluene | 0.878 | 1.27 | 1.553 | 1.459 | 6.139 | 14.892 | 27.633 |
| 50 p-ethyltoluene | 0.335 | 0.523 | 0.625 | 0.558 | 2.356 | 5.778 | 12.036 |
| 51 1,3,5-trimethylbenzene | 0.442 | 0.578 | 0.707 | 0.499 | 2.376 | 5.837 | 11.409 |
| 52 o-ethyltoluene | 0.354 | 0.472 | 0.567 | 0.470 | 1.755 | 4.206 | 8.276 |
| 53 beta-pinene | 0.1 | 0.136 | 0.135 | 0.132 | 0.193 | 0.252 | 0.394 |
| 54 1,2,4-trimethylbenzene | 0.786 | 2.525 | 2.983 | 1.571 | 8.680 | 19.210 | 32.836 |
| 55 n-decane | 0.09 | 1.242 | 0.715 | 0.1 | 5.271 | 12.829 | 17.125 |
| 56 1,2,3-trimethylbenzene | 0.233 | 0.448 | 0.366 | 0.183 | 1.720 | 3.065 | 6.621 |
| 57 m-diethylbenzene | 0.088 | 0.112 | 0.118 | 0.064 | 0.217 | 0.508 | 0.727 |
| 58 p-diethylbenzene | 0.2 | 0.1 | 0.1 | 0.1 | 0.235 | 0.632 | 0.942 |
| 59 undecane | 0.3 | 0.3 | 0.3 | 0.2 | 0.403 | 1.070 | 1.549 |
| 60 isobutene | 0.1 | 0.607 | 0.792 | 1.422 | 38.921 | 176.595 | 208.229 |
| 61 3-methyl-1-butene | 0.08 | 0.07 | 0.1 | 0.200 | 8.284 | 85.882 | 174.674 |
| 62 2-methyl-1-butene | 0.436 | 0.430 | 0.744 | 2.121 | 39.310 | 54.237 | 1193.131 |
| 63 2-methyl-2-butene | 0.227 | 0.104 | 0.436 | 0.04 | 65.680 | 185.135 | 1834.327 |
| 64 c-1,3-pentadiene | 0.08 | 0.06 | 0.1 | 0.1 | 0.06 | 0.07 | 0.07 |
| 65 t-1,3-pentadiene | 0.1 | 0.09 | 0.1 | 0.1 | 0.08 | 0.09 | 0.09 |
| 66 1-hexene | 0.5 | 0.4 | 0.4 | 0.4 | 1.9 | 5.6 | 77.5 |
| 67 c-3-hexene | 0.08 | 0.395 | 0.113 | 0.163 | 4.240 | 15.167 | 43.110 |
| 68 c-2-hexene | 0.09 | 0.07 | 0.1 | 0.07 | 0.388 | 2.274 | 10.385 |
| 69 c-3-methyl-2-pentene | 0.04 | 0.03 | 0.16 | 0.178 | 4.969 | 15.134 | 40.800 |
| 70 t-2-hexene | 0.1 | 0.1 | 0.2 | 0.362 | 3.275 | 9.866 | 45.405 |
| 71 t-3-methyl-2-pentene | 0.08 | 0.07 | 0.22 | 1.512 | 42.028 | 82.154 | 130.567 |
| 72 ETBE | 0.09 | 0.216 | 0.387 | 0.075 | 0.07 | 49.833 | 170.314 |
| 73 1-heptene | 0.08 | 0.06 | 0.1 | 0.34 | 2.319 | 4.062 | 4.563 |
| 74 2-ethyl-p-xylene | 0.071 | 0.071 | 0.097 | 0.04 | 0.408 | 0.317 | 0.706 |
| 75 4-ethyl-m-xylene | 0.046 | 0.034 | 0.020 | 0.02 | 0.182 | 0.141 | 0.318 |
| 76 1,2,3,5-tetramethylbenzene | 0.054 | 0.041 | 0.067 | 0.03 | 0.252 | 0.169 | 0.329 |

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 * 検出下限値(3s)以上、定量下限値(10s)未満の値はセルをオレンジ色に変更。
 * 検出下限値以外は、値の小さい成分の桁数に合わせて小数点以下3桁で表示しているが、有効数字は3桁。

表3 試験条件 W3 の VOC 排出量 (ppb) の経時変化

| 成分名 | 0h | 0.5h | 1h | 3h | 24h | 72h | 168h |
|-------------------------------|--------|--------|--------|--------|---------|----------|-----------|
| 1 ethane | 4.049 | 3.922 | 4.036 | 4.689 | 10.877 | 19.255 | 25.923 |
| 2 ethylene | 2.266 | 2.221 | 2.041 | 1.881 | 2.284 | 3.412 | 3.880 |
| 3 propane | 16.907 | 5.187 | 4.980 | 7.673 | 445.623 | 913.695 | 1669.791 |
| 4 propene | 0.844 | 0.783 | 0.845 | 0.851 | 18.260 | 53.424 | 95.183 |
| 5 isobutane | 21.001 | 19.672 | 19.843 | 19.449 | 585.223 | 5354.500 | 10540.636 |
| 6 n-butane | 37.761 | 35.347 | 36.206 | 36.462 | 744.913 | 9316.182 | 18660.636 |
| 7 acetylene | 0.1 | 0.1 | 0.1 | 0.1 | 0.864 | 0.1 | 0.163 |
| 8 t-2-butene | 1.697 | 1.528 | 1.721 | 2.435 | 33.454 | 1466.055 | 3013.955 |
| 9 1-butene | 1.567 | 1.412 | 1.589 | 2.249 | 30.902 | 795.927 | 1573.373 |
| 10 c-2-butene | 1.675 | 1.480 | 1.647 | 2.237 | 27.388 | 1226.355 | 2592.473 |
| 11 isopentane | 59.187 | 54.913 | 56.646 | 57.780 | 624.507 | 4690.091 | 19012.773 |
| 12 pentane | 17.411 | 16.336 | 17.347 | 19.093 | 275.931 | 836.173 | 5072.227 |
| 13 1,3-butadiene | 0.096 | 0.119 | 0.099 | 0.100 | 0.421 | 0.217 | 4.183 |
| 14 trans-2-pentene | 0.2 | 0.2 | 3.948 | 5.283 | 33.055 | 285.132 | 1399.764 |
| 15 1-pentene | 3.683 | 3.066 | 3.607 | 5.555 | 41.513 | 178.590 | 1942.132 |
| 16 cis-2-penten | 2.112 | 1.834 | 2.248 | 3.058 | 18.732 | 169.734 | 902.505 |
| 17 isoprene | 2.005 | 1.824 | 1.902 | 1.857 | 3.456 | 13.169 | 97.055 |
| 18 2,2-dimethylbutane | 0.259 | 0.246 | 0.271 | 0.379 | 0.928 | 5.945 | 28.029 |
| 19 cyclopentane | 2.335 | 2.299 | 2.325 | 2.596 | 10.745 | 37.377 | 344.174 |
| 20 2,3-dimethyl-butane | 18.620 | 17.807 | 18.220 | 18.751 | 102.155 | 262.788 | 2049.036 |
| 21 2-methyl-pentane | 18.376 | 17.607 | 18.028 | 18.587 | 105.210 | 264.009 | 2124.536 |
| 22 3-methyl-pentane | 12.332 | 11.880 | 12.159 | 12.559 | 35.562 | 157.553 | 1200.386 |
| 23 2-methyl-1-pentene | 1.063 | 0.889 | 1.164 | 1.250 | 6.590 | 28.954 | 126.525 |
| 24 hexane | 16.832 | 15.566 | 17.974 | 15.685 | 44.623 | 179.464 | 478.855 |
| 25 methylcyclopentane | 2.531 | 2.501 | 2.692 | 3.395 | 18.912 | 51.644 | 258.804 |
| 26 2,4-dimethylpentane | 1.316 | 1.232 | 1.371 | 1.396 | 4.910 | 21.746 | 103.850 |
| 27 benzene | 2.134 | 2.179 | 3.120 | 3.907 | 21.492 | 67.514 | 112.746 |
| 28 cyclohexane | 0.321 | 0.279 | 0.316 | 0.430 | 3.127 | 6.607 | 18.823 |
| 29 2-methylhexane | 3.942 | 3.782 | 4.184 | 4.547 | 13.214 | 47.830 | 157.137 |
| 30 2,3-dimethylpentane | 2.059 | 1.936 | 2.110 | 2.149 | 6.164 | 20.114 | 77.837 |
| 31 3-methylhexane | 5.830 | 5.517 | 6.085 | 6.261 | 16.814 | 54.370 | 175.906 |
| 32 2,2,4-trimethylpentane | 2.741 | 2.654 | 2.979 | 3.455 | 10.858 | 47.353 | 197.591 |
| 33 heptane | 2.058 | 2.044 | 2.234 | 2.766 | 12.867 | 32.323 | 84.796 |
| 34 methylcyclohexane | 0.388 | 0.367 | 0.439 | 0.595 | 3.464 | 8.052 | 22.502 |
| 35 2,3,4-trimethylpentane | 0.825 | 0.855 | 0.938 | 1.162 | 4.624 | 10.840 | 35.908 |
| 36 toluene | 22.427 | 26.637 | 34.230 | 53.210 | 425.147 | 658.905 | 1246.955 |
| 37 2-methylheptane | 0.299 | 0.310 | 0.342 | 0.441 | 2.452 | 9.171 | 28.973 |
| 38 3-methylheptane | 0.357 | 0.372 | 0.413 | 0.530 | 2.966 | 10.313 | 30.364 |
| 39 octane | 0.267 | 0.278 | 0.304 | 0.397 | 2.087 | 6.014 | 16.653 |
| 40 ethylbenzene | 0.711 | 0.790 | 0.942 | 1.242 | 8.336 | 19.477 | 40.760 |
| 41 m-xylene | 1.085 | 1.218 | 1.614 | 2.327 | 16.519 | 34.797 | 32.525 |
| 42 p-xylene | 0.370 | 0.428 | 0.568 | 0.748 | 6.021 | 14.069 | 29.763 |
| 43 styrene | 0.1 | 0.1 | 0.1 | 0.099 | 0.357 | 0.987 | 2.659 |
| 44 o-xylene | 2.985 | 4.147 | 5.537 | 7.007 | 32.573 | 50.807 | 92.741 |
| 45 nonane | 0.330 | 0.318 | 0.341 | 0.402 | 1.074 | 2.556 | 5.754 |
| 46 isopropylbenzene | 0.2 | 0.178 | 0.214 | 0.260 | 1.081 | 2.325 | 5.861 |
| 47 alpha-pinene | 0.176 | 0.163 | 0.187 | 0.225 | 0.430 | 1.013 | 1.636 |
| 48 propylbenzene | 0.523 | 0.749 | 0.947 | 1.183 | 5.655 | 10.888 | 22.272 |
| 49 m-ethyltoluene | 1.955 | 2.943 | 3.851 | 4.827 | 19.646 | 33.295 | 57.257 |
| 50 p-ethyltoluene | 0.759 | 1.199 | 1.518 | 1.797 | 9.344 | 16.774 | 31.313 |
| 51 1,3,5-trimethylbenzene | 0.951 | 1.379 | 1.816 | 2.265 | 9.814 | 17.146 | 31.315 |
| 52 o-ethyltoluene | 0.721 | 1.035 | 1.333 | 1.638 | 6.992 | 12.773 | 24.262 |
| 53 beta-pinene | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.227 |
| 54 1,2,4-trimethylbenzene | 4.068 | 5.315 | 8.239 | 7.711 | 31.226 | 45.148 | 45.527 |
| 55 n-decane | 0.442 | 0.462 | 0.1 | 0.708 | 2.930 | 5.429 | 12.238 |
| 56 1,2,3-trimethylbenzene | 0.400 | 0.603 | 0.823 | 1.012 | 6.301 | 11.677 | 21.713 |
| 57 m-diethylbenzene | 0.054 | 0.078 | 0.084 | 0.116 | 0.506 | 1.007 | 2.426 |
| 58 p-diethylbenzene | 0.1 | 0.1 | 0.1 | 0.140 | 0.740 | 1.437 | 3.476 |
| 59 undecane | 0.3 | 0.3 | 0.3 | 0.3 | 0.430 | 0.769 | 1.428 |
| 60 isobutene | 1.595 | 1.468 | 1.602 | 1.959 | 23.161 | 1145.981 | 2173.382 |
| 61 3-methyl-1-butene | 0.165 | 0.07 | 0.07 | 0.189 | 0.746 | 141.149 | 444.003 |
| 62 2-methyl-1-butene | 0.05 | 0.05 | 0.05 | 0.05 | 1.947 | 363.647 | 1542.682 |
| 63 2-methyl-2-butene | 1.834 | 0.05 | 0.05 | 1.510 | 2.370 | 139.126 | 406.875 |
| 64 c-1,3-pentadiene | 0.07 | 0.07 | 0.07 | 1.726 | 20.365 | 67.556 | 109.790 |
| 65 t-1,3-pentadiene | 0.1 | 0.1 | 0.09 | 0.09 | 2.720 | 35.443 | 342.308 |
| 66 1-hexene | 0.4 | 0.508 | 0.4 | 0.901 | 3.692 | 16.102 | 132.011 |
| 67 c-3-hexene | 6.438 | 0.07 | 0.07 | 0.06 | 0.07 | 4.257 | 26.825 |
| 68 c-2-hexene | 0.150 | 0.08 | 0.08 | 0.315 | 0.08 | 0.08 | 0.08 |
| 69 c-3-methyl-2-pentene | 0.03 | 0.03 | 0.230 | 0.650 | 4.501 | 11.881 | 185.706 |
| 70 t-2-hexene | 0.1 | 0.1 | 0.1 | 0.409 | 3.018 | 10.764 | 231.431 |
| 71 t-3-methyl-2-pentene | 0.094 | 0.07 | 0.07 | 1.023 | 4.860 | 19.655 | 238.145 |
| 72 ETBE | 0.08 | 0.08 | 0.08 | 1.052 | 12.588 | 20.121 | 324.202 |
| 73 1-heptene | 0.357 | 0.07 | 0.07 | 0.455 | 0.920 | 4.769 | 25.681 |
| 74 2-ethyl-p-xylene | 0.070 | 0.111 | 0.139 | 0.278 | 1.128 | 0.04 | 7.434 |
| 75 4-ethyl-m-xylene | 0.042 | 0.058 | 0.084 | 0.116 | 0.723 | 0.02 | 4.818 |
| 76 1,2,3,5-tetramethylbenzene | 0.048 | 0.078 | 0.114 | 0.178 | 0.715 | 0.03 | 5.175 |

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 * 検出下限値(3s)以上、定量下限値(10s)未満の値はセルをオレンジ色に変更。
 * 検出下限値以外は、値の小さい成分の桁数に合わせて小数点以下3桁で表示しているが、有効数字は3桁。

表 4 試験条件 W5 の VOC 排出量 (ppb) の経時変化

| 成分名 | 0h | 0.5h | 1h | 3h | 24h | 72h | 168h |
|-------------------------------|--------|------|--------|---------|---------|----------|-----------|
| 1 ethane | 2.429 | - | 2.484 | 2.541 | 4.243 | 15.728 | 45.913 |
| 2 ethylene | 1.486 | - | 1.599 | 1.779 | 2.409 | 6.090 | 17.187 |
| 3 propane | 8.255 | - | 4.708 | 4.263 | 6.605 | 1022.976 | 3410.536 |
| 4 propene | 0.228 | - | 0.219 | 0.228 | 0.259 | 32.083 | 105.872 |
| 5 isobutane | 38.086 | - | 36.934 | 40.286 | 68.824 | 8577.296 | 79334.455 |
| 6 n-butane | 41.880 | - | 41.627 | 49.221 | 107.737 | 3983.088 | 75530.182 |
| 7 acetylene | 0.752 | - | 0.800 | 0.838 | 1.002 | 1.722 | 13.454 |
| 8 t-2-butene | 3.418 | - | 3.893 | 6.328 | 24.686 | 301.248 | 7450.709 |
| 9 1-butene | 1.813 | - | 1.785 | 2.387 | 6.984 | 212.397 | 3209.445 |
| 10 c-2-butene | 3.328 | - | 3.557 | 5.327 | 18.808 | 231.155 | 6548.936 |
| 11 isopentane | 61.633 | - | 72.522 | 101.887 | 424.448 | 538.998 | 31890.182 |
| 12 pentane | 30.214 | - | 36.634 | 51.036 | 186.608 | 311.675 | 10700.000 |
| 13 1,3-butadiene | 0.717 | - | 0.202 | 0.014 | 0.080 | 13.768 | 0.000 |
| 14 trans-2-pentene | 4.971 | - | 7.751 | 13.895 | 60.501 | 117.901 | 2480.755 |
| 15 1-pentene | 4.142 | - | 5.248 | 13.162 | 27.457 | 49.022 | 2007.327 |
| 16 cis-2-penten | 3.145 | - | 4.504 | 8.179 | 35.193 | 66.347 | 1370.591 |
| 17 isoprene | 0.066 | - | 0.066 | 0.005 | 0.065 | 0.058 | 0.066 |
| 18 2,2-dimethylbutane | 0.447 | - | 0.543 | 0.624 | 2.016 | 3.581 | 65.722 |
| 19 cyclopentane | 3.477 | - | 4.183 | 5.178 | 17.251 | 26.508 | 320.727 |
| 20 2,3-dimethyl-butane | 17.091 | - | 20.157 | 23.582 | 62.428 | 108.855 | 849.225 |
| 21 2-methyl-pentane | 17.156 | - | 0.024 | 23.454 | 62.207 | 109.545 | 845.935 |
| 22 3-methyl-pentane | 11.414 | - | 13.416 | 15.831 | 44.144 | 68.973 | 408.355 |
| 23 2-methyl-1-pentene | 1.185 | - | 1.564 | 2.145 | 7.819 | 15.574 | 128.203 |
| 24 hexane | 14.589 | - | 16.630 | 19.105 | 42.343 | 84.972 | 334.941 |
| 25 methylcyclopentane | 7.529 | - | 8.781 | 10.593 | 32.672 | 52.838 | 147.435 |
| 26 2,4-dimethylpentane | 0.763 | - | 0.962 | 1.204 | 3.795 | 6.614 | 30.030 |
| 27 benzene | 3.413 | - | 4.781 | 5.974 | 14.574 | 43.516 | 102.590 |
| 28 cyclohexane | 1.439 | - | 1.959 | 2.698 | 13.421 | 15.194 | 27.639 |
| 29 2-methylhexane | 3.820 | - | 4.150 | 4.642 | 10.133 | 20.691 | 67.750 |
| 30 2,3-dimethylpentane | 1.391 | - | 1.507 | 1.739 | 4.379 | 7.404 | 22.046 |
| 31 3-methylhexane | 4.614 | - | 5.004 | 5.544 | 11.511 | 22.297 | 65.082 |
| 32 2,2,4-trimethylpentane | 1.004 | - | 1.488 | 2.021 | 8.253 | 25.138 | 421.585 |
| 33 heptane | 3.687 | - | 3.886 | 4.310 | 8.978 | 15.752 | 49.036 |
| 34 methylcyclohexane | 1.400 | - | 1.672 | 2.047 | 4.288 | 8.189 | 14.483 |
| 35 2,3,4-trimethylpentane | 0.492 | - | 0.734 | 0.938 | 3.111 | 6.211 | 55.928 |
| 36 toluene | 28.192 | - | 38.667 | 47.971 | 108.113 | 203.414 | 448.691 |
| 37 2-methylheptane | 0.891 | - | 0.903 | 1.008 | 1.837 | 2.171 | 7.379 |
| 38 3-methylheptane | 1.028 | - | 1.040 | 1.149 | 2.017 | 2.366 | 7.456 |
| 39 octane | 0.616 | - | 0.633 | 0.704 | 1.219 | 1.364 | 3.351 |
| 40 ethylbenzene | 4.743 | - | 5.298 | 5.611 | 8.792 | 8.618 | 13.032 |
| 41 m-xylene | 9.800 | - | 11.305 | 11.755 | 17.359 | 16.667 | 23.729 |
| 42 p-xylene | 3.970 | - | 4.281 | 4.599 | 6.620 | 5.932 | 8.439 |
| 43 styrene | 0.317 | - | 0.164 | 0.179 | 0.299 | 0.265 | 0.105 |
| 44 o-xylene | 7.641 | - | 10.070 | 11.054 | 20.393 | 21.424 | 31.069 |
| 45 nonane | 0.547 | - | 0.591 | 0.648 | 0.996 | 0.836 | 1.010 |
| 46 isopropylbenzene | 0.326 | - | 0.353 | 0.381 | 0.619 | 0.528 | 0.741 |
| 47 alpha-pinene | 0.189 | - | 0.181 | 0.226 | 0.365 | 0.311 | 0.370 |
| 48 propylbenzene | 0.115 | - | 1.739 | 1.862 | 2.692 | 1.986 | 2.514 |
| 49 m-ethyltoluene | 0.365 | - | 7.535 | 8.055 | 10.956 | 8.640 | 10.309 |
| 50 p-ethyltoluene | 2.549 | - | 3.134 | 3.203 | 4.523 | 3.228 | 3.998 |
| 51 1,3,5-trimethylbenzene | 2.551 | - | 3.036 | 3.331 | 4.624 | 3.282 | 4.067 |
| 52 o-ethyltoluene | 1.944 | - | 2.331 | 2.525 | 3.562 | 2.462 | 3.045 |
| 53 beta-pinene | 0.098 | - | 0.098 | 0.098 | 0.096 | 0.086 | 0.098 |
| 54 1,2,4-trimethylbenzene | 10.407 | - | 12.225 | 13.346 | 16.781 | 13.061 | 15.312 |
| 55 n-decane | 1.635 | - | 1.222 | 1.528 | 0.074 | 1.937 | 1.507 |
| 56 1,2,3-trimethylbenzene | 2.670 | - | 2.886 | 3.265 | 4.324 | 4.297 | 3.206 |
| 57 m-diethylbenzene | 0.446 | - | 0.453 | 0.026 | 0.620 | 0.565 | 0.402 |
| 58 p-diethylbenzene | 0.524 | - | 0.518 | 0.626 | 0.711 | 0.407 | 0.441 |
| 59 undecane | 0.456 | - | 0.268 | 0.539 | 0.695 | 0.314 | 0.546 |
| 60 isobutene | 1.777 | - | 1.976 | 2.620 | 8.199 | 60.933 | 2064.255 |
| 61 3-methyl-1-butene | 0.737 | - | 1.138 | 1.646 | 16.557 | 23.301 | 996.427 |
| 62 2-methyl-1-butene | 2.998 | - | 3.907 | 11.857 | 66.336 | 87.838 | 2096.100 |
| 63 2-methyl-2-butene | 3.286 | - | 6.879 | 0.023 | 106.046 | 149.699 | 2098.400 |
| 64 c-1,3-pentadiene | 0.109 | - | 0.374 | 0.389 | 0.677 | 0.646 | 6.030 |
| 65 t-1,3-pentadiene | 0.862 | - | 1.164 | 1.468 | 9.446 | 9.823 | 59.798 |
| 66 1-hexene | 0.460 | - | 0.647 | 1.696 | 3.521 | 20.807 | 98.508 |
| 67 c-3-hexene | 0.779 | - | 0.262 | 0.668 | 0.917 | 1.820 | 0.543 |
| 68 c-2-hexene | 0.077 | - | 0.769 | 0.982 | 6.563 | 10.606 | 75.817 |
| 69 c-3-methyl-2-pentene | 0.204 | - | 0.428 | 0.529 | 5.100 | 10.656 | 27.081 |
| 70 t-2-hexene | 0.353 | - | 0.765 | 0.875 | 4.105 | 8.123 | 42.246 |
| 71 t-3-methyl-2-pentene | 2.870 | - | 0.588 | 5.169 | 6.563 | 4.271 | 68.111 |
| 72 ETBE | 10.671 | - | 10.994 | 7.731 | 42.556 | 60.050 | 133.869 |
| 73 1-heptene | 0.934 | - | 0.869 | 0.843 | 3.115 | 4.025 | 20.551 |
| 74 2-ethyl-p-xylene | 0.386 | - | 0.430 | 0.540 | 0.745 | 0.562 | 0.550 |
| 75 4-ethyl-m-xylene | 0.248 | - | 0.272 | 0.388 | 0.578 | 0.406 | 0.352 |
| 76 1,2,3,5-tetramethylbenzene | 0.349 | - | 0.470 | 0.530 | 0.748 | 0.513 | 0.497 |

* 赤字は測定値が検出下限値(3s)未満のため、検出下限値に希釈倍率をかけた有効数字1桁で表示。希釈倍率はサンプリング時間ごとに異なる。
 * 検出下限値(3s)以上、定量下限値(10s)未満の値はセルをオレンジ色に変更。
 * 検出下限値以外は、値の小さい成分の桁数に合わせて小数点以下3桁で表示しているが、有効数字は3桁。

表 5 試験条件 E1 の VOC 排出量 (ppb) の経時変化

| 成分名 | 0h | 0.5h | 1h | 3h | 24h | 72h | 168h |
|-------------------------------|--------|--------|--------|--------|---------|---------|---------|
| 1 ethane | 2.906 | 2.474 | 2.233 | 2.397 | 3.426 | 5.877 | 10.418 |
| 2 ethylene | 3.013 | 2.790 | 2.717 | 2.895 | 4.493 | 6.399 | 7.285 |
| 3 propane | 36.670 | 37.817 | 36.215 | 36.319 | 36.360 | 36.597 | 39.503 |
| 4 propene | 1.037 | 1.229 | 1.084 | 1.161 | 1.561 | 2.458 | 3.209 |
| 5 isobutane | 1.860 | 2.153 | 2.435 | 4.164 | 19.739 | 47.993 | 87.962 |
| 6 n-butane | 2.748 | 4.153 | 5.878 | 13.916 | 83.629 | 202.246 | 344.848 |
| 7 acetylene | 1.107 | 1.298 | 1.289 | 1.251 | 1.510 | 1.702 | 1.454 |
| 8 t-2-butene | 0.519 | 1.290 | 2.186 | 6.122 | 41.065 | 95.121 | 167.128 |
| 9 1-butene | 0.354 | 0.766 | 0.901 | 1.967 | 12.556 | 29.146 | 50.563 |
| 10 c-2-butene | 0.483 | 0.965 | 1.755 | 4.989 | 33.340 | 77.014 | 132.308 |
| 11 isopentane | 4.056 | 7.005 | 11.247 | 29.701 | 161.932 | 389.756 | 640.196 |
| 12 pentane | 2.501 | 4.723 | 7.568 | 20.458 | 103.413 | 228.703 | 382.113 |
| 13 1,3-butadiene | 0.117 | 0.401 | 0.245 | 0.228 | 0.749 | 1.132 | 1.356 |
| 14 trans-2-pentene | 0.973 | 2.605 | 4.046 | 10.719 | 64.194 | 135.798 | 227.085 |
| 15 1-pentene | 0.7 | 0.879 | 1.307 | 3.442 | 19.966 | 84.570 | 131.559 |
| 16 cis-2-penten | 0.609 | 1.441 | 2.258 | 6.311 | 37.062 | 81.114 | 135.111 |
| 17 isoprene | 0.124 | 0.283 | 0.240 | 0.487 | 1.745 | 3.615 | 4.898 |
| 18 2,2-dimethylbutane | 0.308 | 1.485 | 0.481 | 0.518 | 1.783 | 3.145 | 4.995 |
| 19 cyclopentane | 0.356 | 0.714 | 1.198 | 3.168 | 14.420 | 28.449 | 41.022 |
| 20 2,3-dimethyl-butane | 0.455 | 0.789 | 1.231 | 4.028 | 24.167 | 59.382 | 38.017 |
| 21 2-methyl-pentane | 1.949 | 3.026 | 4.762 | 18.128 | 115.788 | 199.742 | 456.444 |
| 22 3-methyl-pentane | 1.518 | 2.095 | 3.533 | 10.802 | 40.852 | 114.170 | 217.446 |
| 23 2-methyl-1-pentene | 0.291 | 0.755 | 0.823 | 3.635 | 13.327 | 24.308 | 38.630 |
| 24 hexane | 2.493 | 3.158 | 4.131 | 8.752 | 33.201 | 111.622 | 147.276 |
| 25 methylcyclopentane | 0.852 | 2.204 | 3.162 | 7.585 | 26.168 | 77.606 | 142.459 |
| 26 2,4-dimethylpentane | 0.087 | 0.245 | 0.319 | 0.856 | 5.558 | 11.647 | 20.471 |
| 27 benzene | 2.012 | 3.062 | 4.234 | 9.469 | 78.640 | 169.975 | 201.938 |
| 28 cyclohexane | 0.328 | 0.475 | 0.552 | 1.097 | 3.754 | 8.485 | 15.484 |
| 29 2-methylhexane | 0.466 | 0.603 | 0.751 | 1.614 | 9.448 | 18.204 | 27.081 |
| 30 2,3-dimethylpentane | 0.603 | 0.760 | 0.975 | 2.199 | 12.676 | 21.764 | 30.361 |
| 31 3-methylhexane | 0.509 | 0.670 | 0.817 | 1.685 | 9.344 | 17.135 | 25.321 |
| 32 2,2,4-trimethylpentane | 0.557 | 0.718 | 0.959 | 2.496 | 21.099 | 37.170 | 79.563 |
| 33 heptane | 0.297 | 0.401 | 0.465 | 0.833 | 4.502 | 10.000 | 14.771 |
| 34 methylcyclohexane | 0.390 | 0.605 | 0.699 | 1.318 | 5.343 | 9.017 | 14.349 |
| 35 2,3,4-trimethylpentane | 0.750 | 0.359 | 0.861 | 0.904 | 5.248 | 10.739 | 15.956 |
| 36 toluene | 10.063 | 15.558 | 25.069 | 57.576 | 323.465 | 366.078 | 612.469 |
| 37 2-methylheptane | 0.141 | 0.193 | 0.183 | 0.202 | 0.613 | 1.039 | 1.447 |
| 38 3-methylheptane | 0.154 | 0.190 | 0.194 | 0.220 | 0.624 | 1.025 | 1.465 |
| 39 octane | 0.150 | 0.206 | 0.180 | 0.161 | 0.362 | 0.538 | 0.755 |
| 40 ethylbenzene | 2.091 | 2.146 | 2.297 | 2.433 | 3.479 | 5.496 | 6.967 |
| 41 m-xylene | 2.397 | 2.560 | 2.966 | 3.465 | 6.341 | 10.620 | 13.869 |
| 42 p-xylene | 0.791 | 0.837 | 0.900 | 0.943 | 1.794 | 3.110 | 4.077 |
| 43 styrene | 0.649 | 0.721 | 0.701 | 0.606 | 0.690 | 0.918 | 1.086 |
| 44 o-xylene | 8.332 | 6.950 | 7.736 | 7.733 | 14.420 | 19.247 | 23.047 |
| 45 nonane | 0.967 | 0.843 | 0.794 | 0.559 | 0.602 | 0.600 | 0.760 |
| 46 isopropylbenzene | 0.516 | 0.526 | 0.496 | 0.365 | 0.382 | 0.450 | 0.524 |
| 47 alpha-pinene | 0.286 | 0.366 | 0.238 | 0.283 | 0.284 | 0.418 | 0.610 |
| 48 propylbenzene | 1.706 | 1.572 | 1.614 | 1.222 | 1.193 | 1.362 | 1.684 |
| 49 m-ethyltoluene | 0.261 | 5.042 | 5.316 | 0.173 | 0.210 | 5.012 | 0.339 |
| 50 p-ethyltoluene | 2.622 | 2.548 | 2.585 | 2.015 | 2.033 | 2.382 | 2.872 |
| 51 1,3,5-trimethylbenzene | 2.511 | 2.364 | 2.477 | 1.97 | 1.956 | 2.202 | 2.733 |
| 52 o-ethyltoluene | 2.055 | 1.964 | 2.058 | 1.621 | 1.510 | 0.1 | 2.077 |
| 53 beta-pinene | 0.1 | 0.191 | 0.1 | 0.1 | 0.1 | 0.09 | 0.064 |
| 54 1,2,4-trimethylbenzene | 7.697 | 7.362 | 7.164 | 5.931 | 6.695 | 7.326 | 9.696 |
| 55 n-decane | 4.484 | 4.334 | 4.400 | 3.448 | 2.837 | 2.537 | 2.614 |
| 56 1,2,3-trimethylbenzene | 2.767 | 2.777 | 2.861 | 2.319 | 2.044 | 2.198 | 2.623 |
| 57 m-diethylbenzene | 0.733 | 0.851 | 0.809 | 0.594 | 0.322 | 0.481 | 0.529 |
| 58 p-diethylbenzene | 0.844 | 0.949 | 0.899 | 0.399 | 0.338 | 0.560 | 0.633 |
| 59 undecane | 0.706 | 0.800 | 0.798 | 0.590 | 0.465 | 0.428 | 0.461 |
| 60 isobutene | 0.512 | 0.865 | 0.959 | 2.381 | 12.486 | 32.204 | 59.876 |
| 61 3-methyl-1-butene | 0.07 | 0.07 | 0.07 | 0.07 | 3.836 | 10.764 | 17.275 |
| 62 2-methyl-1-butene | 0.04 | 1.275 | 1.975 | 5.809 | 39.786 | 112.175 | 206.721 |
| 63 2-methyl-2-butene | 0.05 | 2.217 | 3.783 | 10.999 | 99.038 | 216.817 | 469.258 |
| 64 c-1,3-pentadiene | 0.07 | 0.07 | 0.06 | 0.06 | 1.049 | 1.250 | 5.001 |
| 65 t-1,3-pentadiene | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.3 | 0.3 |
| 66 1-hexene | 0.4 | 0.4 | 0.4 | 1.023 | 3.529 | 38.140 | 70.776 |
| 67 c-3-hexene | 0.06 | 0.06 | 0.06 | 0.06 | 4.915 | 15.797 | 42.332 |
| 68 c-2-hexene | 0.08 | 0.08 | 0.08 | 0.08 | 6.926 | 33.166 | 69.853 |
| 69 c-3-methyl-2-pentene | 0.03 | 0.03 | 0.03 | 0.03 | 5.958 | 9.395 | 77.967 |
| 70 t-2-hexene | 0.1 | 0.1 | 0.1 | 0.1 | 5.603 | 23.736 | 55.120 |
| 71 t-3-methyl-2-pentene | 0.07 | 0.07 | 0.07 | 0.343 | 8.837 | 38.839 | 71.707 |
| 72 ETBE | 0.08 | 0.08 | 0.07 | 2.269 | 18.522 | 38.197 | 83.565 |
| 73 1-heptene | 0.06 | 0.06 | 0.06 | 0.06 | 3.081 | 5.556 | 11.483 |
| 74 2-ethyl-p-xylene | 0.179 | 0.224 | 0.280 | 0.191 | 0.343 | 0.1 | 0.372 |
| 75 4-ethyl-m-xylene | 0.331 | 0.376 | 0.441 | 0.358 | 0.434 | 0.05 | 0.808 |
| 76 1,2,3,5-tetramethylbenzene | 0.177 | 0.305 | 0.211 | 0.176 | 0.328 | 0.09 | 0.1 |

* 赤字は測定値が検出下限値(3s)未満のため、検出下限値に希釈倍率をかけた有効数字1桁で表示。希釈倍率はサンプリング時間ごとに異なる。
 * 検出下限値(3s)以上、定量下限値(10s)未満の値はセルをオレンジ色に変更。
 * 検出下限値以外は、値の小さい成分の桁数に合わせて小数点以下3桁で表示しているが、有効数字は3桁。

表 6 試験条件 E2 の VOC 排出量 (ppb) の経時変化

| 成分名 | 0h | 0.5h | 1h | 3h | 24h | 72h | 168h |
|-------------------------------|--------|--------|--------|--------|---------|---------|----------|
| 1 ethane | 4.325 | 4.048 | 3.946 | 3.976 | 17.908 | 28.238 | 28.868 |
| 2 ethylene | 7.419 | 6.949 | 6.514 | 6.390 | 6.660 | 7.871 | 5.414 |
| 3 propane | 34.845 | 9.676 | 8.631 | 5.547 | 87.387 | 86.930 | 274.677 |
| 4 propene | 2.395 | 2.274 | 2.394 | 2.337 | 3.244 | 6.522 | 15.518 |
| 5 isobutane | 2.408 | 2.493 | 2.756 | 3.935 | 21.811 | 178.507 | 2066.935 |
| 6 n-butane | 2.653 | 3.531 | 4.726 | 10.642 | 88.740 | 304.974 | 2854.702 |
| 7 acetylene | 2.290 | 2.429 | 2.359 | 2.410 | 2.426 | 3.131 | 6.713 |
| 8 t-2-butene | 0.496 | 1.080 | 1.651 | 4.701 | 40.337 | 112.840 | 590.051 |
| 9 1-butene | 0.471 | 0.650 | 0.793 | 1.616 | 12.464 | 46.789 | 390.447 |
| 10 c-2-butene | 0.413 | 0.802 | 1.216 | 3.527 | 31.454 | 86.284 | 236.056 |
| 11 isopentane | 3.663 | 5.451 | 7.460 | 18.620 | 167.090 | 357.246 | 751.558 |
| 12 pentane | 2.114 | 3.668 | 5.273 | 13.272 | 103.203 | 205.574 | 292.269 |
| 13 1,3-butadiene | 0.463 | 0.454 | 0.377 | 0.475 | 0.757 | 0.435 | 3.257 |
| 14 trans-2-pentene | 0.928 | 1.967 | 3.588 | 8.518 | 56.650 | 118.438 | 152.459 |
| 15 1-pentene | 0.395 | 0.620 | 0.914 | 2.472 | 18.549 | 37.884 | 57.446 |
| 16 cis-2-penten | 0.583 | 1.144 | 1.770 | 4.734 | 33.198 | 69.499 | 92.799 |
| 17 isoprene | 0.068 | 0.105 | 0.109 | 0.167 | 0.945 | 1.572 | 2.515 |
| 18 2,2-dimethylbutane | 0.418 | 0.405 | 0.602 | 0.438 | 1.059 | 1.780 | 1.997 |
| 19 cyclopentane | 0.245 | 0.217 | 0.488 | 1.678 | 15.162 | 27.262 | 41.752 |
| 20 2,3-dimethyl-butane | 1.316 | 1.803 | 2.844 | 11.186 | 63.377 | 90.874 | 112.652 |
| 21 2-methyl-pentane | 1.349 | 1.831 | 2.871 | 11.271 | 62.677 | 89.170 | 110.589 |
| 22 3-methyl-pentane | 0.988 | 1.250 | 1.824 | 5.794 | 40.786 | 62.206 | 74.520 |
| 23 2-methyl-1-pentene | 0.136 | 0.335 | 0.582 | 1.996 | 14.236 | 27.824 | 28.979 |
| 24 hexane | 0.891 | 0.985 | 1.282 | 3.230 | 17.816 | 37.387 | 38.252 |
| 25 methylcyclopentane | 0.633 | 0.716 | 0.997 | 2.721 | 23.060 | 51.004 | 63.276 |
| 26 2,4-dimethylpentane | 0.142 | 0.183 | 0.222 | 0.792 | 7.597 | 18.239 | 23.895 |
| 27 benzene | 1.481 | 2.044 | 2.333 | 5.439 | 24.741 | 61.074 | 70.069 |
| 28 cyclohexane | 0.464 | 0.501 | 0.669 | 2.067 | 8.745 | 14.223 | 17.181 |
| 29 2-methylhexane | 0.335 | 0.398 | 0.461 | 1.213 | 7.833 | 17.948 | 27.008 |
| 30 2,3-dimethylpentane | 0.179 | 0.225 | 0.251 | 0.606 | 4.802 | 9.359 | 18.247 |
| 31 3-methylhexane | 0.361 | 0.447 | 0.491 | 1.239 | 7.474 | 17.047 | 23.646 |
| 32 2,2,4-trimethylpentane | 0.585 | 0.716 | 0.804 | 2.909 | 22.190 | 47.529 | 72.147 |
| 33 heptane | 0.136 | 0.159 | 0.180 | 0.458 | 3.113 | 6.931 | 7.468 |
| 34 methylcyclohexane | 0.246 | 0.286 | 0.317 | 0.771 | 3.311 | 7.006 | 9.995 |
| 35 2,3,4-trimethylpentane | 0.252 | 0.331 | 0.546 | 1.048 | 7.019 | 17.862 | 23.979 |
| 36 toluene | 9.146 | 15.108 | 23.308 | 44.875 | 160.752 | 297.351 | 395.168 |
| 37 2-methylheptane | 0.075 | 0.073 | 0.105 | 0.164 | 0.756 | 2.004 | 3.140 |
| 38 3-methylheptane | 0.08 | 0.08 | 0.095 | 0.157 | 0.722 | 1.930 | 2.734 |
| 39 octane | 0.101 | 0.08 | 0.089 | 0.154 | 0.509 | 1.122 | 2.115 |
| 40 ethylbenzene | 0.641 | 0.489 | 0.579 | 0.838 | 2.800 | 6.622 | 7.135 |
| 41 m-xylene | 0.661 | 0.605 | 0.903 | 1.381 | 6.205 | 19.224 | 22.661 |
| 42 p-xylene | 0.235 | 0.205 | 0.268 | 0.420 | 1.711 | 4.991 | 5.830 |
| 43 styrene | 0.250 | 0.173 | 0.218 | 0.252 | 0.439 | 0.680 | 0.979 |
| 44 o-xylene | 1.724 | 1.926 | 3.629 | 5.699 | 19.147 | 42.451 | 57.495 |
| 45 nonane | 0.253 | 0.258 | 0.330 | 0.454 | 0.700 | 1.508 | 2.245 |
| 46 isopropylbenzene | 0.2 | 0.2 | 0.2 | 0.2 | 0.261 | 0.619 | 1.158 |
| 47 alpha-pinene | 0.553 | 0.467 | 0.658 | 0.785 | 0.818 | 0.846 | 1.168 |
| 48 propylbenzene | 0.183 | 0.220 | 0.360 | 0.499 | 0.778 | 1.742 | 3.504 |
| 49 m-ethyltoluene | 0.646 | 0.06 | 1.370 | 1.767 | 3.329 | 8.113 | 16.854 |
| 50 p-ethyltoluene | 0.316 | 0.373 | 0.623 | 0.844 | 1.461 | 3.562 | 7.310 |
| 51 1,3,5-trimethylbenzene | 0.352 | 0.434 | 0.713 | 0.814 | 1.689 | 3.969 | 7.136 |
| 52 o-ethyltoluene | 0.402 | 0.482 | 0.775 | 0.860 | 1.693 | 3.665 | 5.379 |
| 53 beta-pinene | 0.173 | 0.150 | 0.204 | 0.197 | 0.240 | 0.219 | 0.198 |
| 54 1,2,4-trimethylbenzene | 1.740 | 2.222 | 3.656 | 4.050 | 8.750 | 15.204 | 16.338 |
| 55 n-decane | 1.048 | 1.292 | 1.553 | 1.814 | 3.052 | 8.049 | 8.222 |
| 56 1,2,3-trimethylbenzene | 0.369 | 0.449 | 0.583 | 0.759 | 1.398 | 3.036 | 3.056 |
| 57 m-diethylbenzene | 0.052 | 0.099 | 0.075 | 0.160 | 0.252 | 0.280 | 0.455 |
| 58 p-diethylbenzene | 0.1 | 0.1 | 0.1 | 0.1 | 0.255 | 0.305 | 0.494 |
| 59 undecane | 0.269 | 0.3 | 0.3 | 0.299 | 0.448 | 0.627 | 0.959 |
| 60 isobutene | 0.937 | 1.227 | 1.291 | 2.132 | 15.033 | 40.339 | 145.438 |
| 61 3-methyl-1-butene | 0.07 | 0.07 | 0.07 | 0.218 | 6.539 | 19.440 | 39.790 |
| 62 2-methyl-1-butene | 0.294 | 0.757 | 1.099 | 3.621 | 31.821 | 74.961 | 102.416 |
| 63 2-methyl-2-butene | 0.047 | 1.280 | 2.020 | 2.127 | 66.050 | 126.410 | 157.839 |
| 64 c-1,3-pentadiene | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 1.042 | 1.243 |
| 65 t-1,3-pentadiene | 0.09 | 0.09 | 0.09 | 0.09 | 0.1 | 0.1 | 0.09 |
| 66 1-hexene | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| 67 c-3-hexene | 0.06 | 0.06 | 0.06 | 0.272 | 2.537 | 5.070 | 7.598 |
| 68 c-2-hexene | 0.08 | 0.08 | 0.08 | 0.08 | 0.520 | 0.775 | 1.720 |
| 69 c-3-methyl-2-pentene | 0.03 | 0.03 | 0.03 | 0.640 | 4.739 | 12.891 | 14.906 |
| 70 t-2-hexene | 0.1 | 0.1 | 0.1 | 0.878 | 4.887 | 8.801 | 10.560 |
| 71 t-3-methyl-2-pentene | 0.07 | 0.07 | 0.07 | 0.456 | 6.255 | 13.741 | 14.925 |
| 72 ETBE | 0.08 | 0.292 | 0.459 | 1.469 | 12.161 | 18.402 | 21.284 |
| 73 1-heptene | 0.06 | 0.06 | 0.06 | 0.06 | 2.181 | 2.457 | 3.271 |
| 74 2-ethyl-p-xylene | 0.059 | 0.082 | 0.087 | 0.140 | 0.124 | 0.455 | 0.624 |
| 75 4-ethyl-m-xylene | 0.040 | 0.041 | 0.040 | 0.055 | 0.064 | 0.234 | 0.323 |
| 76 1,2,3,5-tetramethylbenzene | 0.048 | 0.091 | 0.068 | 0.060 | 0.085 | 0.311 | 0.451 |

* 赤字は測定値が検出下限値(3s)未満のため、検出下限値に希釈倍率をかけた有効数字1桁で表示。希釈倍率はサンプリング時間ごとに異なる。
 * 検出下限値(3s)以上、定量下限値(10s)未満の値はセルをオレンジ色に変更。
 * 検出下限値以外は、値の小さい成分の桁数に合わせて小数点以下3桁で表示しているが、有効数字は3桁。

表 7 試験条件 E3 の VOC 排出量 (ppb) の経時変化

| 成分名 | 0h | 0.5h | 1h | 3h | 24h | 72h | 168h |
|-------------------------------|---------|--------|--------|---------|---------|---------|-----------|
| 1 ethane | 3.804 | 4.351 | 4.985 | 4.983 | 5.662 | 11.055 | 25.206 |
| 2 ethylene | 0.989 | 0.980 | 1.157 | 1.278 | 2.094 | 3.062 | 5.348 |
| 3 propane | 0.04 | 6.723 | 7.098 | 7.920 | 10.142 | 222.052 | 2362.027 |
| 4 propene | 0.588 | 0.307 | 0.395 | 0.468 | 1.110 | 14.841 | 575.302 |
| 5 isobutane | 58.591 | 13.184 | 16.167 | 22.281 | 49.018 | 100.785 | 15976.273 |
| 6 n-butane | 125.928 | 32.130 | 41.316 | 58.662 | 149.864 | 287.501 | 25566.364 |
| 7 acetylene | 0.993 | 1.003 | 1.033 | 1.160 | 1.500 | 1.874 | 23.469 |
| 8 t-2-butene | 11.755 | 6.328 | 8.925 | 15.153 | 53.220 | 107.505 | 2799.255 |
| 9 1-butene | 0.03 | 2.459 | 3.311 | 5.051 | 15.421 | 32.099 | 1738.673 |
| 10 c-2-butene | 0.03 | 5.487 | 7.822 | 12.637 | 0.075 | 87.609 | 2778.918 |
| 11 isopentane | 0.05 | 53.369 | 70.890 | 102.556 | 235.360 | 369.250 | 4590.909 |
| 12 pentane | 0.062 | 23.236 | 31.166 | 44.078 | 90.544 | 134.419 | 636.486 |
| 13 1,3-butadiene | 0.08 | 0.08 | 0.090 | 0.151 | 0.415 | 0.756 | 19.498 |
| 14 trans-2-pentene | 0.2 | 2.204 | 2.928 | 4.414 | 57.720 | 87.303 | 257.564 |
| 15 1-pentene | 28.261 | 3.804 | 5.231 | 7.868 | 43.020 | 67.851 | 303.610 |
| 16 cis-2-penten | 0.2 | 6.591 | 9.109 | 14.233 | 34.248 | 52.093 | 149.245 |
| 17 isoprene | 1.474 | 0.856 | 1.033 | 1.252 | 2.818 | 4.104 | 6.059 |
| 18 2,2-dimethylbutane | 0.1 | 0.292 | 0.336 | 0.430 | 1.206 | 2.078 | 4.391 |
| 19 cyclopentane | 9.311 | 3.640 | 4.986 | 7.407 | 20.605 | 44.513 | 71.044 |
| 20 2,3-dimethyl-butane | 45.226 | 21.612 | 27.275 | 36.331 | 78.126 | 140.328 | 181.543 |
| 21 2-methyl-pentane | 45.399 | 21.822 | 27.322 | 36.570 | 78.681 | 141.410 | 145.679 |
| 22 3-methyl-pentane | 29.121 | 14.253 | 17.911 | 24.113 | 52.665 | 95.087 | 131.875 |
| 23 2-methyl-1-pentene | 6.266 | 2.338 | 3.152 | 4.646 | 12.184 | 28.206 | 48.967 |
| 24 hexane | 16.183 | 8.131 | 9.786 | 12.620 | 29.292 | 58.828 | 83.630 |
| 25 methylcyclopentane | 10.840 | 4.556 | 6.518 | 10.023 | 27.654 | 57.150 | 76.975 |
| 26 2,4-dimethylpentane | 4.360 | 1.790 | 2.484 | 3.697 | 9.375 | 20.744 | 31.215 |
| 27 benzene | 5.178 | 3.470 | 5.034 | 7.834 | 21.814 | 64.641 | 88.636 |
| 28 cyclohexane | 0.864 | 1.270 | 2.069 | 3.751 | 16.865 | 39.533 | 49.270 |
| 29 2-methylhexane | 7.428 | 3.754 | 5.095 | 6.569 | 13.479 | 22.894 | 44.461 |
| 30 2,3-dimethylpentane | 3.302 | 1.666 | 2.357 | 3.281 | 7.868 | 16.795 | 26.934 |
| 31 3-methylhexane | 7.947 | 4.433 | 5.905 | 7.404 | 15.805 | 27.015 | 49.881 |
| 32 2,2,4-trimethylpentane | 8.713 | 4.421 | 6.554 | 9.893 | 25.411 | 54.820 | 60.280 |
| 33 heptane | 3.785 | 2.268 | 3.110 | 4.478 | 12.665 | 17.125 | 27.718 |
| 34 methylcyclohexane | 1.037 | 0.586 | 0.909 | 1.443 | 4.063 | 9.532 | 15.779 |
| 35 2,3,4-trimethylpentane | 1.793 | 1.148 | 1.662 | 2.503 | 7.527 | 17.544 | 39.869 |
| 36 toluene | 36.316 | 37.724 | 52.002 | 66.953 | 154.167 | 204.614 | 770.041 |
| 37 2-methylheptane | 0.650 | 0.454 | 0.624 | 0.844 | 2.079 | 3.984 | 7.001 |
| 38 3-methylheptane | 0.670 | 0.492 | 0.671 | 0.898 | 2.212 | 4.135 | 7.018 |
| 39 octane | 0.347 | 0.325 | 0.428 | 0.553 | 1.716 | 3.796 | 6.911 |
| 40 ethylbenzene | 1.941 | 2.064 | 2.578 | 2.883 | 7.132 | 14.889 | 25.348 |
| 41 m-xylene | 2.116 | 2.581 | 3.506 | 3.826 | 11.033 | 22.058 | 35.564 |
| 42 p-xylene | 0.713 | 0.941 | 1.293 | 1.415 | 4.406 | 9.281 | 16.413 |
| 43 styrene | 0.177 | 0.181 | 0.211 | 0.245 | 0.363 | 0.829 | 1.841 |
| 44 o-xylene | 6.466 | 9.178 | 12.534 | 12.129 | 26.788 | 44.633 | 65.995 |
| 45 nonane | 0.364 | 0.374 | 0.439 | 0.502 | 0.785 | 1.716 | 3.356 |
| 46 isopropylbenzene | 0.196 | 0.283 | 0.367 | 0.382 | 0.978 | 1.973 | 3.375 |
| 47 alpha-pinene | 0.226 | 0.209 | 0.216 | 0.241 | 0.272 | 0.635 | 1.145 |
| 48 propylbenzene | 0.779 | 1.339 | 1.763 | 1.846 | 5.583 | 10.707 | 16.747 |
| 49 m-ethyltoluene | 3.123 | 5.650 | 7.528 | 7.846 | 22.767 | 39.656 | 53.217 |
| 50 p-ethyltoluene | 1.376 | 2.400 | 3.037 | 3.145 | 10.564 | 18.267 | 28.427 |
| 51 1,3,5-trimethylbenzene | 1.443 | 2.509 | 3.298 | 3.429 | 10.341 | 19.862 | 28.087 |
| 52 o-ethyltoluene | 1.053 | 1.870 | 2.450 | 2.471 | 7.177 | 14.195 | 20.846 |
| 53 beta-pinene | 0.1 | 0.09 | 0.1 | 0.1 | 0.1 | 0.1 | 0.139 |
| 54 1,2,4-trimethylbenzene | 5.603 | 11.738 | 13.750 | 14.814 | 40.150 | 68.699 | 76.091 |
| 55 n-decane | 0.675 | 0.972 | 1.078 | 1.304 | 2.655 | 4.572 | 8.830 |
| 56 1,2,3-trimethylbenzene | 0.807 | 1.549 | 1.957 | 2.050 | 5.917 | 14.303 | 24.142 |
| 57 m-diethylbenzene | 0.122 | 0.194 | 0.249 | 0.258 | 0.528 | 1.185 | 2.255 |
| 58 p-diethylbenzene | 0.145 | 0.235 | 0.301 | 0.334 | 0.722 | 1.676 | 3.512 |
| 59 undecane | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 1.435 |
| 60 isobutene | 9.222 | 2.110 | 3.042 | 4.826 | 13.643 | 29.050 | 2549.561 |
| 61 3-methyl-1-butene | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 294.714 |
| 62 2-methyl-1-butene | 0.04 | 0.04 | 0.05 | 0.05 | 34.010 | 87.206 | 421.838 |
| 63 2-methyl-2-butene | 0.05 | 0.04 | 0.05 | 14.103 | 76.286 | 155.366 | 268.216 |
| 64 c-1,3-pentadiene | 0.07 | 0.06 | 0.07 | 0.07 | 0.07 | 0.07 | 193.858 |
| 65 t-1,3-pentadiene | 0.09 | 0.09 | 0.1 | 0.09 | 0.09 | 0.09 | 85.532 |
| 66 1-hexene | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 17.710 | 31.027 |
| 67 c-3-hexene | 0.06 | 0.06 | 0.07 | 0.07 | 0.06 | 20.609 | 10.087 |
| 68 c-2-hexene | 0.08 | 0.07 | 0.08 | 0.08 | 0.08 | 0.08 | 8.613 |
| 69 c-3-methyl-2-pentene | 0.03 | 0.03 | 0.03 | 0.03 | 7.515 | 17.655 | 29.430 |
| 70 t-2-hexene | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 9.779 | 34.324 |
| 71 t-3-methyl-2-pentene | 0.07 | 0.07 | 0.07 | 0.513 | 9.773 | 29.412 | 49.049 |
| 72 ETBE | 0.08 | 1.701 | 1.725 | 3.215 | 24.586 | 52.854 | 62.966 |
| 73 1-heptene | 0.06 | 0.06 | 0.07 | 0.07 | 0.06 | 0.06 | 13.522 |
| 74 2-ethyl-p-xylene | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.432 |
| 75 4-ethyl-m-xylene | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.312 |
| 76 1,2,3,5-tetramethylbenzene | 0.03 | 0.03 | 0.078 | 0.089 | 0.190 | 1.015 | 1.290 |

* 赤字は測定値が検出下限値(3s)未満のため、検出下限値に希釈倍率をかけた有効数字1桁で表示。希釈倍率はサンプリング時間ごとに異なる。
 * 検出下限値(3s)以上、定量下限値(10s)未満の値はセルをオレンジ色に変更。
 * 検出下限値以外は、値の小さい成分の桁数に合わせて小数点以下3桁で表示しているが、有効数字は3桁。

表 8 試験条件 E4 の VOC 排出量 (ppb) の経時変化

| 成分名 | 0h | 0.5h | 1h | 3h | 24h | 72h | 168h |
|-------------------------------|--------|------|----|----|---------|-----|-----------|
| 1 ethane | 3.733 | - | - | - | 4.413 | - | 14.849 |
| 2 ethylene | 1.901 | - | - | - | 2.847 | - | 5.294 |
| 3 propane | 10.330 | - | - | - | 8.727 | - | 2474.157 |
| 4 propene | 0.638 | - | - | - | 1.386 | - | 94.489 |
| 5 isobutane | 17.615 | - | - | - | 76.802 | - | 13190.170 |
| 6 n-butane | 18.244 | - | - | - | 109.551 | - | 23557.277 |
| 7 acetylene | 1.529 | - | - | - | 2.242 | - | 0.1 |
| 8 t-2-butene | 4.276 | - | - | - | 42.832 | - | 2484.166 |
| 9 1-butene | 2.012 | - | - | - | 13.260 | - | 10109.021 |
| 10 c-2-butene | 3.126 | - | - | - | 32.548 | - | 8221.830 |
| 11 isopentane | 23.347 | - | - | - | 214.222 | - | 5798.170 |
| 12 pentane | 11.726 | - | - | - | 106.228 | - | 930.996 |
| 13 1,3-butadiene | 1.336 | - | - | - | 0.569 | - | 0.08 |
| 14 trans-2-pentene | 3.146 | - | - | - | 57.146 | - | 325.527 |
| 15 1-pentene | 1.461 | - | - | - | 18.248 | - | 372.062 |
| 16 cis-2-penten | 1.943 | - | - | - | 33.117 | - | 179.046 |
| 17 isoprene | 0.07 | - | - | - | 0.06 | - | 5.228 |
| 18 2,2-dimethylbutane | 0.565 | - | - | - | 1.587 | - | 0.1 |
| 19 cyclopentane | 3.449 | - | - | - | 19.629 | - | 43.771 |
| 20 2,3-dimethyl-butane | 16.165 | - | - | - | 63.127 | - | 143.866 |
| 21 2-methyl-pentane | 16.333 | - | - | - | 62.955 | - | 143.774 |
| 22 3-methyl-pentane | 11.298 | - | - | - | 43.454 | - | 89.694 |
| 23 2-methyl-1-pentene | 1.322 | - | - | - | 13.498 | - | 28.376 |
| 24 hexane | 14.495 | - | - | - | 30.341 | - | 45.066 |
| 25 methylcyclopentane | 7.417 | - | - | - | 29.524 | - | 57.881 |
| 26 2,4-dimethylpentane | 1.229 | - | - | - | 8.469 | - | 18.761 |
| 27 benzene | 5.281 | - | - | - | 25.176 | - | 41.771 |
| 28 cyclohexane | 1.487 | - | - | - | 10.166 | - | 20.604 |
| 29 2-methylhexane | 7.493 | - | - | - | 13.624 | - | 25.539 |
| 30 2,3-dimethylpentane | 1.867 | - | - | - | 6.525 | - | 15.768 |
| 31 3-methylhexane | 9.088 | - | - | - | 14.550 | - | 25.761 |
| 32 2,2,4-trimethylpentane | 0.785 | - | - | - | 20.121 | - | 80.808 |
| 33 heptane | 4.378 | - | - | - | 9.193 | - | 15.753 |
| 34 methylcyclohexane | 1.933 | - | - | - | 6.289 | - | 12.482 |
| 35 2,3,4-trimethylpentane | 0.487 | - | - | - | 6.860 | - | 25.071 |
| 36 toluene | 48.416 | - | - | - | 141.928 | - | 322.949 |
| 37 2-methylheptane | 1.998 | - | - | - | 2.870 | - | 5.838 |
| 38 3-methylheptane | 2.297 | - | - | - | 3.312 | - | 6.098 |
| 39 octane | 1.622 | - | - | - | 2.357 | - | 3.922 |
| 40 ethylbenzene | 7.158 | - | - | - | 11.256 | - | 18.663 |
| 41 m-xylene | 11.115 | - | - | - | 16.760 | - | 31.518 |
| 42 p-xylene | 4.171 | - | - | - | 6.651 | - | 14.568 |
| 43 styrene | 0.217 | - | - | - | 0.511 | - | 1.026 |
| 44 o-xylene | 8.502 | - | - | - | 20.511 | - | 40.575 |
| 45 nonane | 1.115 | - | - | - | 1.537 | - | 2.344 |
| 46 isopropylbenzene | 0.791 | - | - | - | 1.078 | - | 1.506 |
| 47 alpha-pinene | 0.205 | - | - | - | 0.544 | - | 0.502 |
| 48 propylbenzene | 3.286 | - | - | - | 4.191 | - | 5.530 |
| 49 m-ethyltoluene | 10.623 | - | - | - | 13.507 | - | 18.047 |
| 50 p-ethyltoluene | 4.130 | - | - | - | 5.585 | - | 9.283 |
| 51 1,3,5-trimethylbenzene | 4.784 | - | - | - | 6.251 | - | 8.791 |
| 52 o-ethyltoluene | 3.741 | - | - | - | 4.877 | - | 6.545 |
| 53 beta-pinene | 0.1 | - | - | - | 0.1 | - | 0.09 |
| 54 1,2,4-trimethylbenzene | 17.045 | - | - | - | 21.499 | - | 25.690 |
| 55 n-decane | 1.181 | - | - | - | 2.033 | - | 3.296 |
| 56 1,2,3-trimethylbenzene | 3.494 | - | - | - | 4.435 | - | 8.070 |
| 57 m-diethylbenzene | 0.663 | - | - | - | 0.770 | - | 0.994 |
| 58 p-diethylbenzene | 0.654 | - | - | - | 0.780 | - | 1.112 |
| 59 undecane | 0.319 | - | - | - | 0.347 | - | 0.530 |
| 60 isobutene | 1.782 | - | - | - | 12.280 | - | 3026.618 |
| 61 3-methyl-1-butene | 0.392 | - | - | - | 5.863 | - | 78.579 |
| 62 2-methyl-1-butene | 2.417 | - | - | - | 29.952 | - | 119.586 |
| 63 2-methyl-2-butene | 2.496 | - | - | - | 52.648 | - | 108.492 |
| 64 c-1,3-pentadiene | 0.07 | - | - | - | 0.806 | - | 1.911 |
| 65 t-1,3-pentadiene | 0.09 | - | - | - | 2.286 | - | 1.731 |
| 66 1-hexene | 0.4 | - | - | - | 6.968 | - | 7.354 |
| 67 c-3-hexene | 0.351 | - | - | - | 1.658 | - | 18.451 |
| 68 c-2-hexene | 0.531 | - | - | - | 5.160 | - | 14.076 |
| 69 c-3-methyl-2-pentene | 0.352 | - | - | - | 4.758 | - | 9.946 |
| 70 t-2-hexene | 0.533 | - | - | - | 4.619 | - | 10.598 |
| 71 t-3-methyl-2-pentene | 0.07 | - | - | - | 4.350 | - | 7.602 |
| 72 ETBE | 8.486 | - | - | - | 19.988 | - | 23.949 |
| 73 1-heptene | 0.263 | - | - | - | 1.064 | - | 7.950 |
| 74 2-ethyl-p-xylene | 0.345 | - | - | - | 0.303 | - | 3.642 |
| 75 4-ethyl-m-xylene | 0.184 | - | - | - | 0.154 | - | 1.780 |
| 76 1,2,3,5-tetramethylbenzene | 0.252 | - | - | - | 0.245 | - | 4.965 |

* 赤字は測定値が検出下限値(3s)未満のため、検出下限値に希釈倍率をかけた有効数字1桁で表示。希釈倍率はサンプリング時間ごとに異なる。

* 検出下限値(3s)以上、定量下限値(10s)未満の値はセルをオレンジ色に変更。

* 検出下限値以外は、値の小さい成分の桁数に合わせて小数点以下3桁で表示しているが、有効数字は3桁。

表 9 試験条件 E5 の VOC 排出量 (ppb) の経時変化

| 成分名 | 0h | 0.5h | 1h | 3h | 24h | 72h | 96h |
|-------------------------------|---------|------|--------|--------|----------|-----------|-----------|
| 1 ethane | 2.595 | - | 2.690 | 2.749 | 4.571 | 16.134 | 20.348 |
| 2 ethylene | 2.279 | - | 2.401 | 2.254 | 3.027 | 8.711 | 10.463 |
| 3 propane | 11.081 | - | 4.466 | 4.849 | 394.269 | 1142.453 | 1724.600 |
| 4 propene | 0.031 | - | 0.800 | 0.814 | 10.887 | 27.448 | 40.429 |
| 5 isobutane | 248.273 | - | 34.417 | 35.142 | 5699.545 | 22884.871 | 34534.727 |
| 6 n-butane | 243.349 | - | 67.158 | 77.444 | 6538.455 | 23878.400 | 35665.673 |
| 7 acetylene | 0.138 | - | 0.128 | 0.196 | 0.125 | 0.122 | 9.775 |
| 8 t-2-butene | 20.355 | - | 5.206 | 5.725 | 135.249 | 709.543 | 2517.593 |
| 9 1-butene | 0.098 | - | 2.179 | 2.251 | 1.508 | 2.049 | 19.715 |
| 10 c-2-butene | 19.586 | - | 4.581 | 5.116 | 33.082 | 1474.596 | 2392.120 |
| 11 isopentane | 175.711 | - | 52.306 | 56.977 | 477.527 | 12647.929 | 18963.491 |
| 12 pentane | 58.642 | - | 28.122 | 32.222 | 159.755 | 3994.631 | 8799.855 |
| 13 1,3-butadiene | 1.873 | - | 0.210 | 0.302 | 0.082 | 0.735 | 62.920 |
| 14 trans-2-pentene | 12.103 | - | 5.949 | 7.271 | 0.196 | 854.254 | 1298.647 |
| 15 1-pentene | 0.655 | - | 6.697 | 8.819 | 43.608 | 1041.248 | 2266.291 |
| 16 cis-2-penten | 0.218 | - | 3.416 | 4.167 | 18.796 | 357.419 | 2739.236 |
| 17 isoprene | 0.066 | - | 0.739 | 0.856 | 1.918 | 36.623 | 109.998 |
| 18 2,2-dimethylbutane | 0.122 | - | 0.500 | 0.660 | 2.811 | 37.910 | 20.805 |
| 19 cyclopentane | 5.119 | - | 3.429 | 4.143 | 16.155 | 140.849 | 232.351 |
| 20 2,3-dimethyl-butane | 20.003 | - | 16.305 | 18.549 | 44.646 | 261.991 | 492.687 |
| 21 2-methyl-pentane | 20.421 | - | 16.219 | 18.399 | 44.706 | 308.393 | 676.004 |
| 22 3-methyl-pentane | 12.174 | - | 10.146 | 11.688 | 31.496 | 161.139 | 323.869 |
| 23 2-methyl-1-pentene | 1.509 | - | 1.329 | 1.571 | 5.440 | 27.784 | 42.272 |
| 24 hexane | 9.981 | - | 12.158 | 16.038 | 65.937 | 422.105 | 577.702 |
| 25 methylcyclopentane | 7.595 | - | 7.052 | 8.512 | 26.033 | 88.486 | 155.784 |
| 26 2,4-dimethylpentane | 0.854 | - | 0.769 | 0.902 | 7.099 | 45.797 | 74.588 |
| 27 benzene | 3.621 | - | 4.953 | 6.636 | 26.532 | 175.800 | 169.133 |
| 28 cyclohexane | 1.642 | - | 1.588 | 1.942 | 6.550 | 14.541 | 24.093 |
| 29 2-methylhexane | 3.178 | - | 3.359 | 3.949 | 19.115 | 129.753 | 242.937 |
| 30 2,3-dimethylpentane | 1.245 | - | 1.220 | 1.480 | 8.353 | 51.372 | 72.352 |
| 31 3-methylhexane | 3.780 | - | 4.065 | 4.747 | 20.836 | 131.029 | 247.800 |
| 32 2,2,4-trimethylpentane | 4.644 | - | 1.592 | 1.816 | 20.769 | 166.203 | 290.541 |
| 33 heptane | 2.705 | - | 2.796 | 3.428 | 14.722 | 57.420 | 97.075 |
| 34 methylcyclohexane | 1.365 | - | 1.383 | 1.749 | 6.567 | 18.998 | 28.712 |
| 35 2,3,4-trimethylpentane | 0.986 | - | 0.480 | 0.595 | 0.038 | 0.037 | 40.632 |
| 36 toluene | 29.649 | - | 28.948 | 34.665 | 100.677 | 262.778 | 353.725 |
| 37 2-methylheptane | 0.594 | - | 0.569 | 0.638 | 2.436 | 5.918 | 10.144 |
| 38 3-methylheptane | 0.658 | - | 0.642 | 0.733 | 2.753 | 6.239 | 10.104 |
| 39 octane | 0.443 | - | 0.424 | 0.403 | 1.214 | 2.038 | 2.907 |
| 40 ethylbenzene | 3.145 | - | 3.633 | 4.195 | 11.013 | 12.475 | 18.935 |
| 41 m-xylene | 6.052 | - | 7.106 | 7.629 | 20.615 | 23.987 | 37.389 |
| 42 p-xylene | 2.244 | - | 2.585 | 2.539 | 8.187 | 8.434 | 13.274 |
| 43 styrene | 0.125 | - | 0.153 | 0.141 | 0.356 | 0.375 | 0.525 |
| 44 o-xylene | 5.549 | - | 6.650 | 7.175 | 19.218 | 19.881 | 30.557 |
| 45 nonane | 0.605 | - | 0.592 | 0.324 | 0.885 | 0.824 | 0.809 |
| 46 isopropylbenzene | 0.237 | - | 0.276 | 0.279 | 0.568 | 0.520 | 0.661 |
| 47 alpha-pinene | 0.198 | - | 0.263 | 0.321 | 0.666 | 0.661 | 0.641 |
| 48 propylbenzene | 1.017 | - | 1.209 | 0.947 | 2.305 | 1.898 | 2.360 |
| 49 m-ethyltoluene | 3.946 | - | 4.768 | 3.082 | 8.625 | 6.956 | 8.625 |
| 50 p-ethyltoluene | 1.718 | - | 2.053 | 1.216 | 3.620 | 2.920 | 3.487 |
| 51 1,3,5-trimethylbenzene | 1.814 | - | 2.140 | 1.127 | 3.794 | 3.006 | 3.516 |
| 52 o-ethyltoluene | 1.426 | - | 1.716 | 1.107 | 2.953 | 2.215 | 2.620 |
| 53 beta-pinene | 0.098 | - | 0.100 | 0.100 | 0.098 | 0.096 | 0.100 |
| 54 1,2,4-trimethylbenzene | 7.578 | - | 10.242 | 2.761 | 15.099 | 7.317 | 11.981 |
| 55 n-decane | 0.076 | - | 1.651 | 0.177 | 1.750 | 1.170 | 1.798 |
| 56 1,2,3-trimethylbenzene | 1.740 | - | 2.347 | 0.737 | 3.028 | 1.720 | 0.139 |
| 57 m-diethylbenzene | 0.320 | - | 0.370 | 0.153 | 0.511 | 0.295 | 0.342 |
| 58 p-diethylbenzene | 0.285 | - | 0.333 | 0.126 | 0.451 | 0.147 | 0.268 |
| 59 undecane | 0.268 | - | 0.351 | 0.273 | 0.268 | 0.518 | 0.268 |
| 60 isobutene | 0.934 | - | 2.565 | 2.892 | 85.868 | 637.884 | 938.393 |
| 61 3-methyl-1-butene | 2.524 | - | 0.575 | 0.561 | 12.596 | 338.453 | 726.138 |
| 62 2-methyl-1-butene | 9.681 | - | 2.244 | 2.674 | 39.588 | 1028.302 | 2217.087 |
| 63 2-methyl-2-butene | 9.020 | - | 2.993 | 4.457 | 43.395 | 817.568 | 1995.400 |
| 64 c-1,3-pentadiene | 0.065 | - | 0.165 | 0.085 | 0.975 | 13.483 | 65.617 |
| 65 t-1,3-pentadiene | 0.715 | - | 0.148 | 0.418 | 1.788 | 19.677 | 84.343 |
| 66 1-hexene | 0.392 | - | 0.401 | 0.401 | 0.534 | 4.725 | 13.479 |
| 67 c-3-hexene | 0.064 | - | 0.066 | 0.162 | 1.294 | 9.661 | 26.622 |
| 68 c-2-hexene | 0.077 | - | 0.282 | 0.097 | 2.841 | 2.717 | 18.852 |
| 69 c-3-methyl-2-pentene | 0.258 | - | 0.227 | 0.985 | 0.031 | 0.031 | 8.546 |
| 70 t-2-hexene | 0.178 | - | 0.250 | 0.174 | 0.108 | 0.105 | 13.073 |
| 71 t-3-methyl-2-pentene | 0.367 | - | 0.288 | 1.063 | 0.069 | 0.176 | 35.348 |
| 72 ETBE | 7.032 | - | 4.771 | 0.078 | 0.076 | 0.075 | 0.145 |
| 73 1-heptene | 0.162 | - | 0.295 | 0.370 | 2.347 | 11.848 | 16.432 |
| 74 2-ethyl-p-xylene | 0.219 | - | 0.188 | 0.044 | 0.268 | 0.189 | 0.223 |
| 75 4-ethyl-m-xylene | 0.122 | - | 0.123 | 0.021 | 0.205 | 0.110 | 0.160 |
| 76 1,2,3,5-tetramethylbenzene | 0.219 | - | 0.175 | 0.034 | 0.259 | 0.155 | 0.186 |

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