LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU051419\
Data File : VU032012.D
Acq On : 14 May 2019 22:09
Operator : JC/SP
Sample : K2738-14
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 32 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** DB8A1

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\SOMULM051419WMA.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 | 1.180 | 23 | 28 | 41 | rBV2 | 28378 | 31487 | 0.52% | 0.056% |
| 2 | 1.302 | 58 | 66 | 70 | rBV2 | 26400 | 44021 | 0.73% | 0.078% |
| 3 | 1.396 | 88 | 95 | 107 | rBV2 | 780092 | 908883 | 15.01% | 1.616% |
| 4 | 1.473 | 113 | 119 | 132 | rVB2 | 65871 | 92746 | 1.53% | 0.165% |
| 5 | 1.672 | 173 | 181 | 197 | rVB | 464002 | 581625 | 9.61% | 1.034% |
| 6 | 1.884 | 242 | 247 | 257 | rVB8 | 13344 | 22721 | 0.38% | 0.040% |
| 7 | 1.942 | 258 | 265 | 273 | rVB2 | 27162 | 37446 | 0.62% | 0.067% |
| 8 | 2.183 | 336 | 340 | 349 | rVB8 | 15379 | 20559 | 0.34% | 0.037% |
| 9 | 2.267 | 353 | 366 | 375 | rVV2 | 981868 | 1542198 | 25.47% | 2.741% |
| 10 | 2.319 | 375 | 382 | 405 | rVB | 865341 | 1404305 | 23.20% | 2.496% |
| 11 | 2.460 | 415 | 426 | 443 | rVB3 | 27194 | 66616 | 1.10% | 0.118% |
| 12 | 2.704 | 491 | 502 | 506 | rBV7 | 7760 | 14166 | 0.23% | 0.025% |
| 13 | 2.740 | 506 | 513 | 521 | rVV3 | 16445 | 31583 | 0.52% | 0.056% |
| 14 | 2.788 | 521 | 528 | 530 | rVV6 | 11554 | 16270 | 0.27% | 0.029% |
| 15 | 2.830 | 532 | 541 | 561 | rVB3 | 57380 | 139177 | 2.30% | 0.247% |
| 16 | 2.981 | 569 | 588 | 610 | rBV | 577087 | 1089965 | 18.00% | 1.938% |
| 17 | 3.299 | 675 | 687 | 702 | rBV3 | 21182 | 43379 | 0.72% | 0.077% |
| 18 | 3.997 | 891 | 904 | 915 | rBV6 | 14369 | 35160 | 0.58% | 0.063% |
| 19 | 4.087 | 916 | 932 | 947 | rBV2 | 150516 | 393649 | 6.50% | 0.700% |
| 20 | 4.174 | 947 | 959 | 965 | rBV | 463332 | 1019354 | 16.84% | 1.812% |
| 21 | 4.643 | 1087 | 1105 | 1129 | rBV | 682184 | 1608945 | 26.58% | 2.860% |
| 22 | 4.990 | 1196 | 1213 | 1228 | rBV3 | 229894 | 552717 | 9.13% | 0.983% |
| 23 | 5.219 | 1271 | 1284 | 1287 | rBV7 | 14526 | 25923 | 0.43% | 0.046% |
| 24 | 5.334 | 1298 | 1320 | 1351 | rBV2 | 1428020 | 4116424 | 67.99% | 7.318% |
| 25 | 5.473 | 1356 | 1363 | 1372 | rVB5 | 18486 | 34648 | 0.57% | 0.062% |
| 26 | 5.550 | 1379 | 1387 | 1397 | rVB6 | 23146 | 47827 | 0.79% | 0.085% |
| 27 | 5.617 | 1398 | 1408 | 1421 | rVB5 | 38166 | 84153 | 1.39% | 0.150% |
| 28 | 5.788 | 1451 | 1461 | 1475 | rVB5 | 7743 | 19485 | 0.32% | 0.035% |
| 29 | 5.881 | 1477 | 1490 | 1519 | rBV | 1247090 | 2539957 | 41.95% | 4.515% |
| 30 | 6.183 | 1570 | 1584 | 1604 | rBV | 618161 | 1257693 | 20.77% | 2.236% |
| 31 | 6.325 | 1614 | 1628 | 1642 | rBV | 932463 | 1881273 | 31.07% | 3.344% |
| 32 | 6.408 | 1643 | 1654 | 1676 | rVB2 | 308950 | 692695 | 11.44% | 1.231% |
| 33 | 6.508 | 1678 | 1685 | 1689 | rBV | 18070 | 27645 | 0.46% | 0.049% |
| 34 | 6.576 | 1699 | 1706 | 1717 | rVV | 68716 | 119006 | 1.97% | 0.212% |

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Sample : K2738-14
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 32 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** DB8A1

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\SOMULM051419WMA.M
Title : VOC Analysis

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 6.633 | 1719 | 1724 | 1740 | rVB5 | 35040 | 67704 | 1.12% | 0.120% |
| 36 | 6.823 | 1769 | 1783 | 1785 | rBV6 | 14711 | 25980 | 0.43% | 0.046% |
| 37 | 7.016 | 1833 | 1843 | 1847 | rBV4 | 8725 | 13784 | 0.23% | 0.025% |
| 38 | 7.061 | 1852 | 1857 | 1869 | rVB9 | 6987 | 12955 | 0.21% | 0.023% |
| 39 | 7.225 | 1895 | 1908 | 1931 | rVV2 | 500047 | 928709 | 15.34% | 1.651% |
| 40 | 7.559 | 1990 | 2012 | 2044 | rBV | 1856183 | 3463093 | 57.20% | 6.156% |
| 41 | 7.846 | 2090 | 2101 | 2115 | rBV2 | 349798 | 601822 | 9.94% | 1.070% |
| 42 | 7.913 | 2116 | 2122 | 2132 | rVB6 | 25825 | 46712 | 0.77% | 0.083% |
| 43 | 8.042 | 2151 | 2162 | 2171 | rVB6 | 17803 | 33728 | 0.56% | 0.060% |
| 44 | 8.164 | 2191 | 2200 | 2207 | rBV6 | 7293 | 13017 | 0.22% | 0.023% |
| 45 | 8.225 | 2207 | 2219 | 2234 | rBV | 189338 | 336958 | 5.57% | 0.599% |
| 46 | 8.305 | 2234 | 2244 | 2279 | rBV | 1483468 | 2683367 | 44.32% | 4.770% |
| 47 | 8.463 | 2284 | 2293 | 2308 | rVV2 | 172047 | 328250 | 5.42% | 0.584% |
| 48 | 8.540 | 2311 | 2317 | 2328 | rVB3 | 33515 | 53258 | 0.88% | 0.095% |
| 49 | 9.084 | 2475 | 2486 | 2506 | rBV | 1813031 | 3107163 | 51.32% | 5.523% |
| 50 | 9.180 | 2512 | 2516 | 2528 | rVB5 | 39583 | 65096 | 1.08% | 0.116% |
| 51 | 9.251 | 2528 | 2538 | 2549 | rBV2 | 30788 | 53140 | 0.88% | 0.094% |
| 52 | 9.370 | 2564 | 2575 | 2591 | rVB3 | 53918 | 113341 | 1.87% | 0.201% |
| 53 | 9.611 | 2641 | 2650 | 2662 | rVB3 | 13653 | 26179 | 0.43% | 0.047% |
| 54 | 9.714 | 2673 | 2682 | 2686 | rBV3 | 8377 | 13815 | 0.23% | 0.025% |
| 55 | 9.778 | 2696 | 2702 | 2708 | rBV3 | 8265 | 12362 | 0.20% | 0.022% |
| 56 | 9.820 | 2708 | 2715 | 2725 | rVB3 | 16765 | 25782 | 0.43% | 0.046% |
| 57 | 9.945 | 2740 | 2754 | 2769 | rVB7 | 16674 | 45797 | 0.76% | 0.081% |
| 58 | 10.045 | 2777 | 2785 | 2793 | rBV7 | 8902 | 18329 | 0.30% | 0.033% |
| 59 | 10.164 | 2810 | 2822 | 2839 | rBV | 269041 | 427276 | 7.06% | 0.760% |
| 60 | 10.428 | 2892 | 2904 | 2922 | rBV | 1359449 | 2192632 | 36.22% | 3.898% |
| 61 | 10.553 | 2931 | 2943 | 2978 | rBV2 | 2732146 | 6054211 | 100.00% | 10.762% |
| 62 | 10.846 | 3025 | 3034 | 3057 | rBV | 269353 | 475941 | 7.86% | 0.846% |
| 63 | 10.968 | 3065 | 3072 | 3085 | rVB | 61909 | 105783 | 1.75% | 0.188% |
| 64 | 11.109 | 3110 | 3116 | 3123 | rBV4 | 28283 | 46531 | 0.77% | 0.083% |
| 65 | 11.151 | 3124 | 3129 | 3140 | rVB3 | 36280 | 58214 | 0.96% | 0.103% |
| 66 | 11.257 | 3154 | 3162 | 3164 | rBV7 | 9525 | 12240 | 0.20% | 0.022% |
| 67 | 11.289 | 3165 | 3172 | 3176 | rVV2 | 24997 | 42450 | 0.70% | 0.075% |
| 68 | 11.318 | 3177 | 3181 | 3195 | rVB2 | 31225 | 46240 | 0.76% | 0.082% |
| 69 | 11.479 | 3219 | 3231 | 3251 | rBV | 1950302 | 3072780 | 50.75% | 5.462% |
| 70 | 11.569 | 3251 | 3259 | 3272 | rVB2 | 29524 | 49931 | 0.82% | 0.089% |
| 71 | 11.685 | 3289 | 3295 | 3302 | rVB3 | 13831 | 20743 | 0.34% | 0.037% |

LSC Area Percent Report

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Sample : K2738-14
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 32 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** DB8A1

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\SOMULM051419WMA.M
Title : VOC Analysis

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 11.762 | 3305 | 3319 | 3336 | rBV | 2144014 | 3485148 | 57.57% | 6.195% |
| 73 | 11.855 | 3336 | 3348 | 3370 | rVB | 1911541 | 3162324 | 52.23% | 5.621% |
| 74 | 11.977 | 3378 | 3386 | 3400 | rVV3 | 35921 | 60060 | 0.99% | 0.107% |
| 75 | 12.054 | 3404 | 3410 | 3416 | rVB4 | 10961 | 16070 | 0.27% | 0.029% |
| 76 | 12.202 | 3446 | 3456 | 3460 | rBV7 | 14631 | 27876 | 0.46% | 0.050% |
| 77 | 12.247 | 3461 | 3470 | 3476 | rVV | 164836 | 259358 | 4.28% | 0.461% |
| 78 | 12.283 | 3476 | 3481 | 3491 | rVV | 101536 | 152396 | 2.52% | 0.271% |
| 79 | 12.350 | 3491 | 3502 | 3524 | rVB | 363854 | 630309 | 10.41% | 1.120% |
| 80 | 12.537 | 3554 | 3560 | 3568 | rVB5 | 15755 | 23182 | 0.38% | 0.041% |
| 81 | 12.646 | 3578 | 3594 | 3606 | rBV2 | 78816 | 139419 | 2.30% | 0.248% |
| 82 | 12.784 | 3627 | 3637 | 3645 | rBV6 | 17181 | 29143 | 0.48% | 0.052% |
| 83 | 12.916 | 3672 | 3678 | 3682 | rVV6 | 10571 | 14902 | 0.25% | 0.026% |
| 84 | 12.961 | 3683 | 3692 | 3710 | rVB3 | 139053 | 230621 | 3.81% | 0.410% |
| 85 | 13.119 | 3721 | 3741 | 3755 | rBV2 | 359585 | 614470 | 10.15% | 1.092% |
| 86 | 13.289 | 3785 | 3794 | 3809 | rVB7 | 34156 | 65165 | 1.08% | 0.116% |
| 87 | 13.453 | 3837 | 3845 | 3853 | rVB2 | 23517 | 36937 | 0.61% | 0.066% |
| 88 | 13.508 | 3853 | 3862 | 3871 | rBV7 | 31784 | 54845 | 0.91% | 0.097% |
| 89 | 13.579 | 3876 | 3884 | 3887 | rVV5 | 18717 | 32037 | 0.53% | 0.057% |
| 90 | 13.607 | 3887 | 3893 | 3909 | rVB3 | 37715 | 68559 | 1.13% | 0.122% |
| 91 | 13.743 | 3924 | 3935 | 3954 | rBV | 96160 | 189207 | 3.13% | 0.336% |
| 92 | 13.955 | 3994 | 4001 | 4008 | rVB | 10160 | 14016 | 0.23% | 0.025% |
| 93 | 14.006 | 4014 | 4017 | 4028 | rVB7 | 11873 | 15950 | 0.26% | 0.028% |
| 94 | 14.151 | 4055 | 4062 | 4069 | rBV5 | 11146 | 16994 | 0.28% | 0.030% |
| 95 | 14.328 | 4110 | 4117 | 4131 | rBV6 | 12613 | 27548 | 0.46% | 0.049% |
| 96 | 14.537 | 4175 | 4182 | 4194 | rVB9 | 13348 | 22380 | 0.37% | 0.040% |
| 97 | 14.820 | 4263 | 4270 | 4276 | rBV5 | 7980 | 12101 | 0.20% | 0.022% |
| 98 | 14.874 | 4276 | 4287 | 4315 | rVV | 577464 | 1048583 | 17.32% | 1.864% |
| 99 | 15.058 | 4333 | 4344 | 4367 | rVB | 313176 | 548913 | 9.07% | 0.976% |
| 100 | 16.067 | 4652 | 4658 | 4666 | rBV | 8470 | 16937 | 0.28% | 0.030% |

Sum of corrected areas: 56254464

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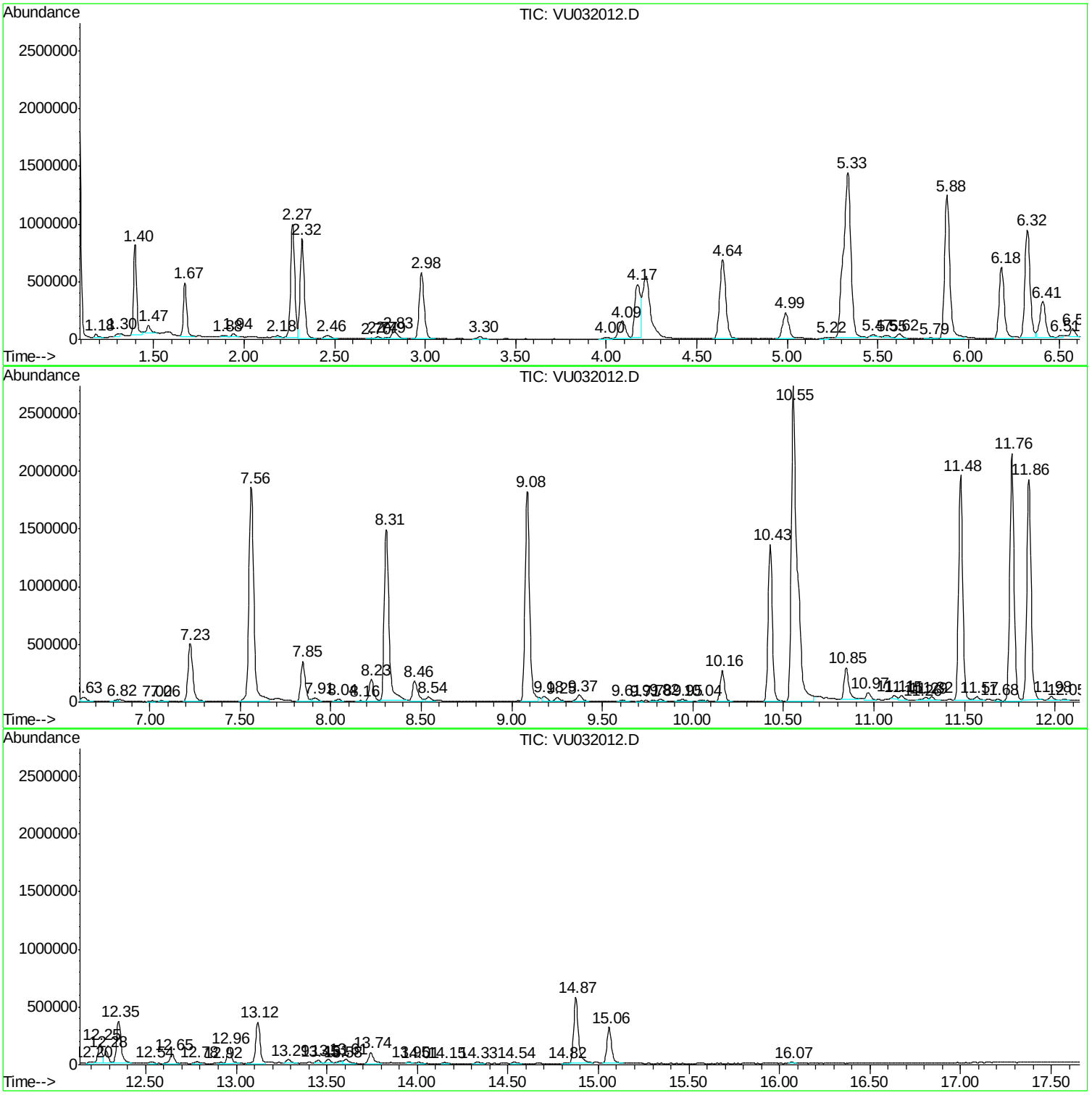
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 32 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** DB8A1

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM051419WMA.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\VU051419\
Data File : VU032012.D
Acq On : 14 May 2019 22:09
Operator : JC/SP
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Misc : 5.0mL/MSVOA_U/WATER
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**Instrument :** MSVOA_U
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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM051419WMA.M
Quant Title : VOC Analysis

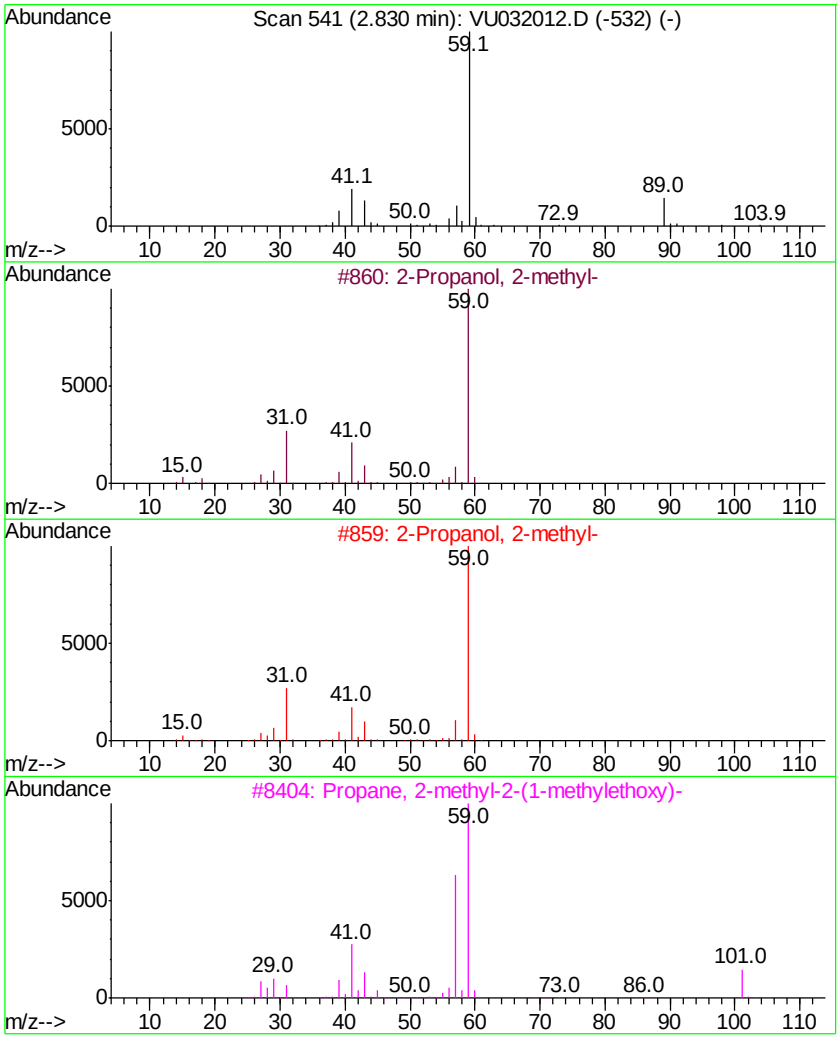
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

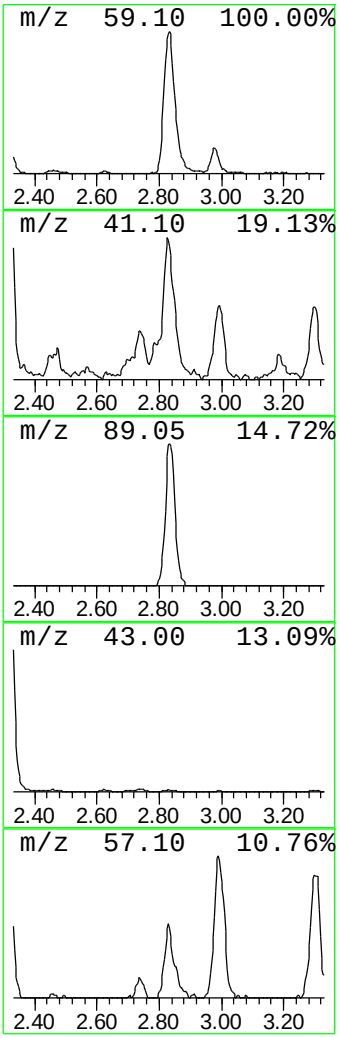
**********

Peak Number 1 2-Propanol, 2-methyl- Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 2.83 | 2.74 ug/L | 139177 | 1,4-Difluorobenzene | 5.88 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Propanol, 2-methyl- | 74 | C4H10O | 000075-65-0 | 50 |
| 2 | 2-Propanol, 2-methyl- | 74 | C4H10O | 000075-65-0 | 39 |
| 3 | Propane, 2-methyl-2-(1-methyleth... | 116 | C7H16O | 017348-59-3 | 36 |
| 4 | 3-Hydroxy-3-methyl-2-butanone | 102 | C5H10O2 | 000115-22-0 | 36 |
| 5 | 1,2-Butanediol | 90 | C4H10O2 | 000584-03-2 | 9 |



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Acq On : 14 May 2019 22:09
Operator : JC/SP
Sample : K2738-14
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 32 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** DB8A1

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM051419WMA.M
Quant Title : VOC Analysis

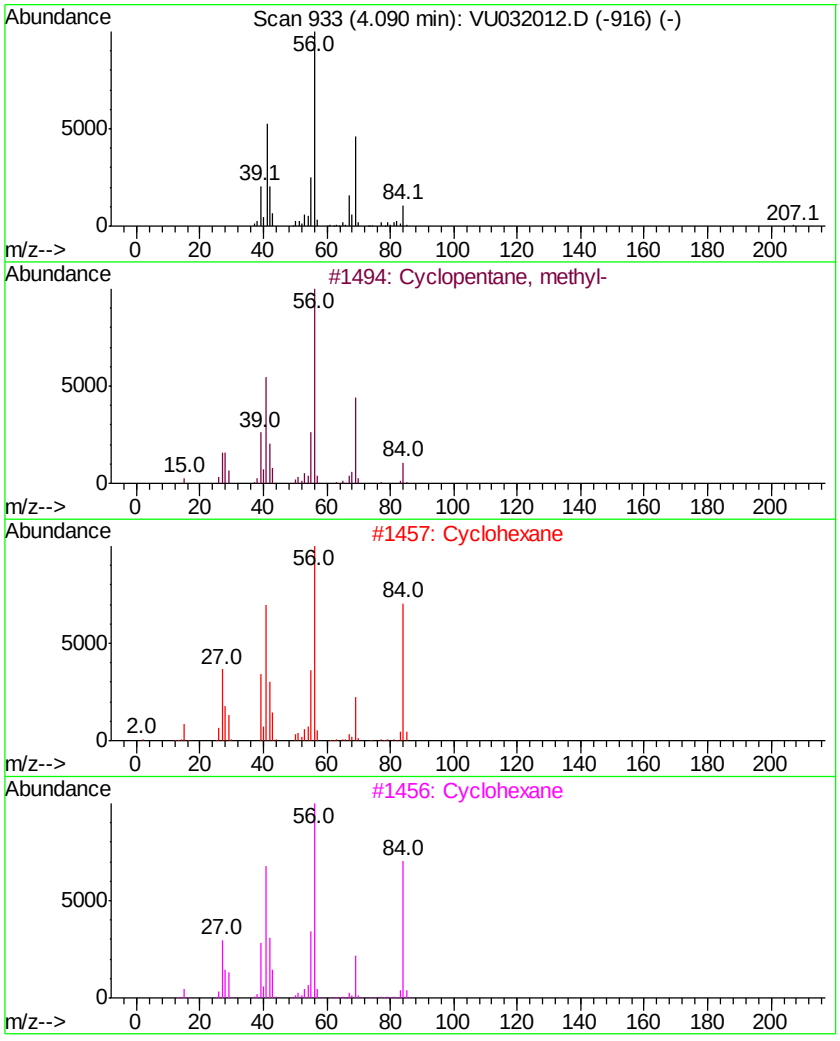
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

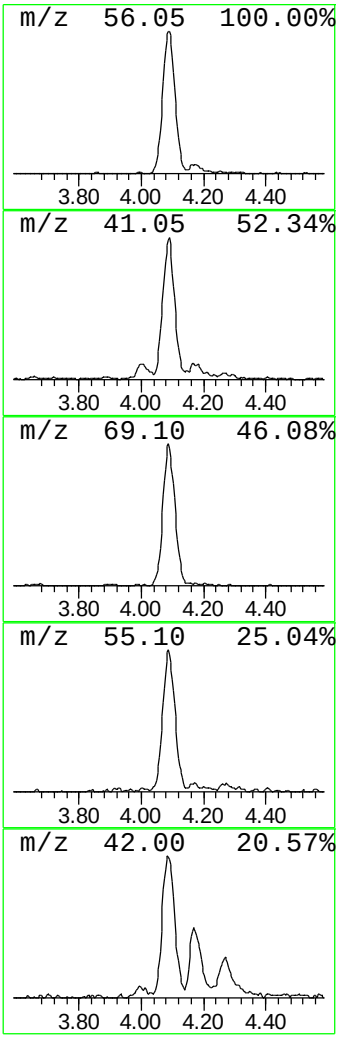
**********

Peak Number 2 (DEL) Alkane: Cyclic4.09 Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.09 | 7.75 ug/L | 393649 | 1,4-Difluorobenzene | 5.88 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopentane, methyl- | 84 | C6H12 | 000096-37-7 | 90 |
| 2 | Cyclohexane | 84 | C6H12 | 000110-82-7 | 83 |
| 3 | Cyclohexane | 84 | C6H12 | 000110-82-7 | 80 |
| 4 | Cyclopentane, methyl- | 84 | C6H12 | 000096-37-7 | 80 |
| 5 | 1-Pentene, 2-methyl- | 84 | C6H12 | 000763-29-1 | 72 |



# Library Search Compound Report

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Data File : VU032012.D
Acq On : 14 May 2019 22:09
Operator : JC/SP
Sample : K2738-14
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 32 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** DB8A1

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM051419WMA.M
Quant Title : VOC Analysis

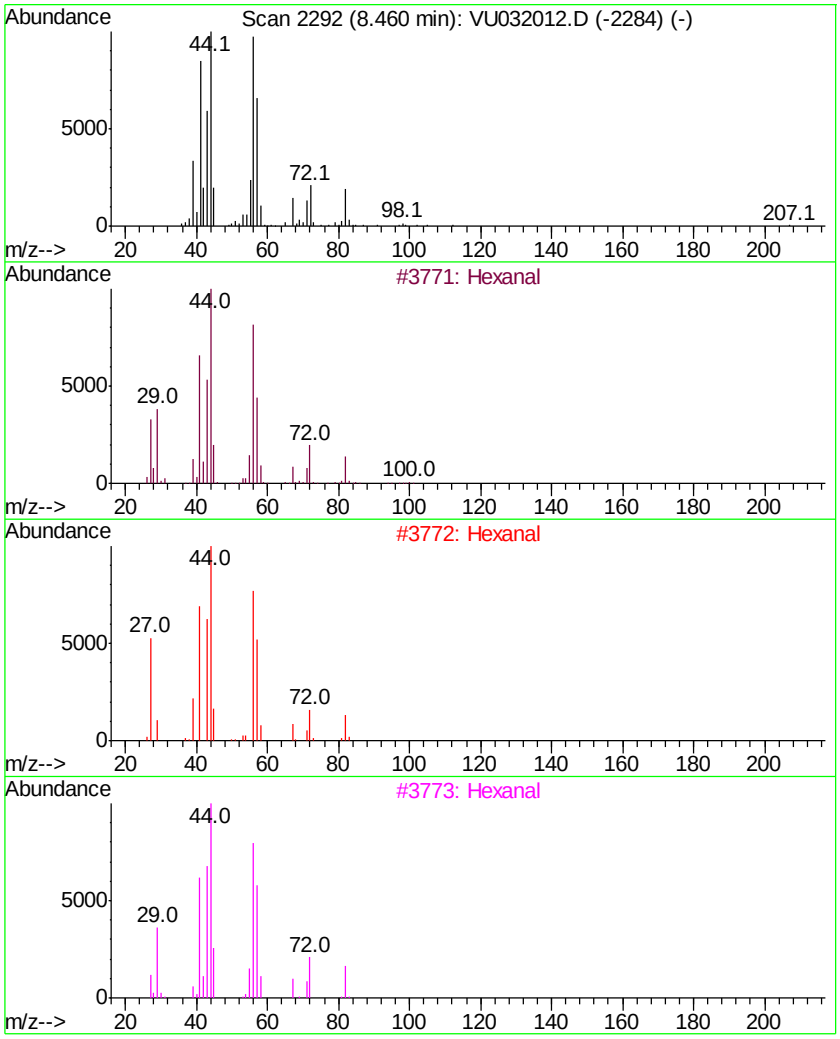
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

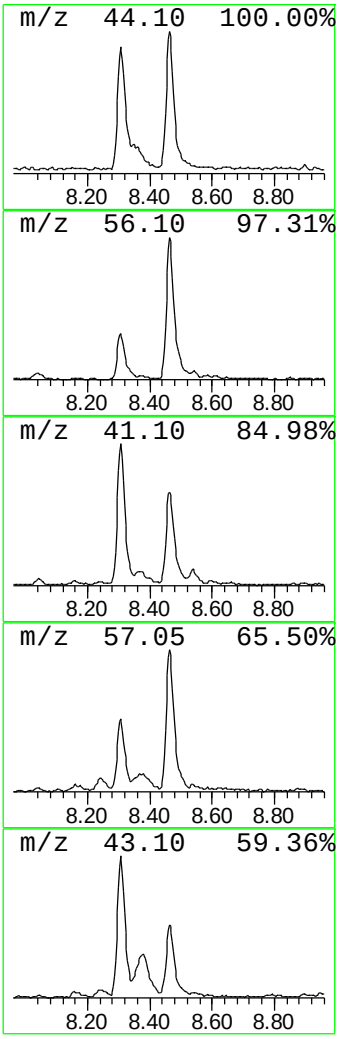
**********

Peak Number 4 Hexanal Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.46 | 5.28 ug/L | 328250 | Chlorobenzene-d5 | 9.08 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexanal | 100 | C6H12O | 000066-25-1 | 90 |
| 2 | Hexanal | 100 | C6H12O | 000066-25-1 | 86 |
| 3 | Hexanal | 100 | C6H12O | 000066-25-1 | 83 |
| 4 | Hexanal | 100 | C6H12O | 000066-25-1 | 83 |
| 5 | Cyclopentanol, 2-methyl- | 100 | C6H12O | 024070-77-7 | 40 |



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ALS Vial : 32 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** DB8A1

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM051419WMA.M
Quant Title : VOC Analysis

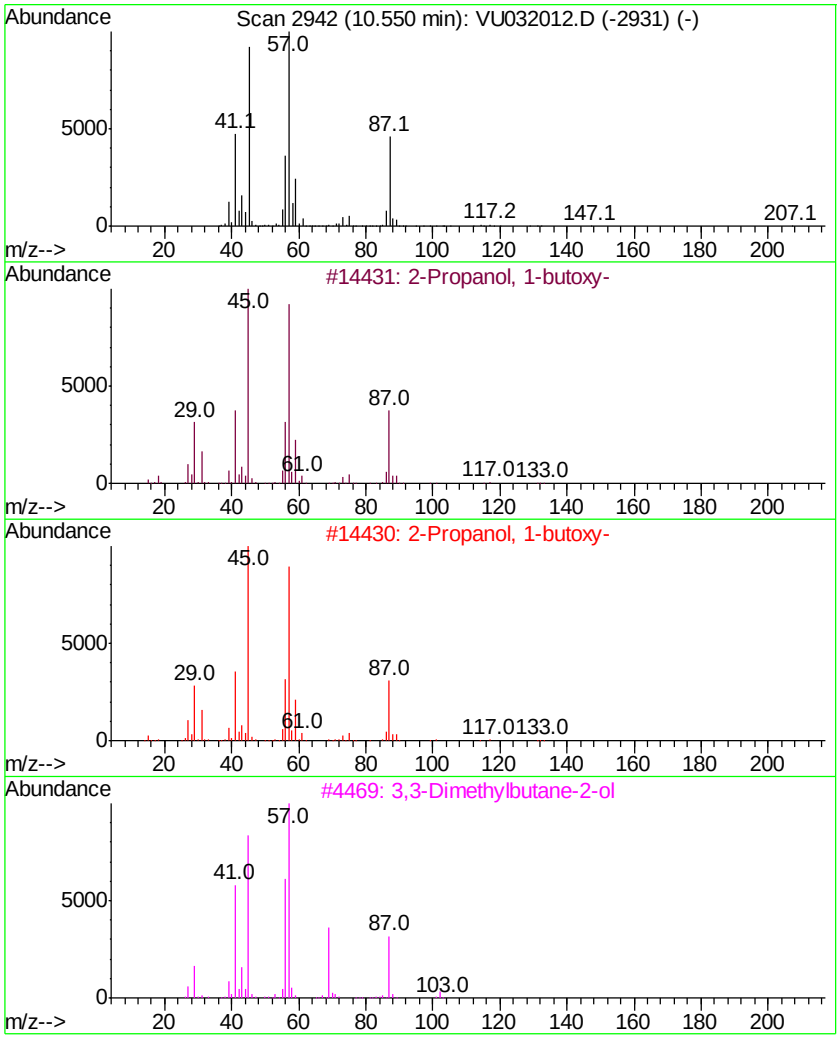
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

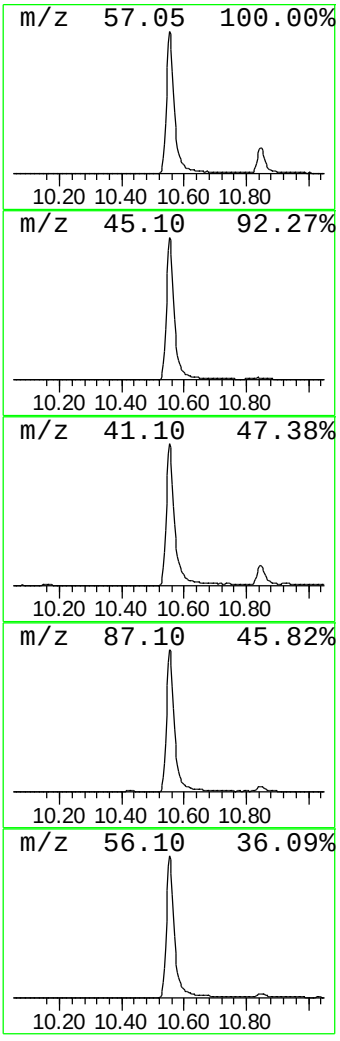
**********

Peak Number 5 2-Propanol, 1-butoxy- Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.55 | 98.51 ug/L | 6054210 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Propanol, 1-butoxy- | 132 | C7H16O2 | 005131-66-8 | 90 |
| 2 | 2-Propanol, 1-butoxy- | 132 | C7H16O2 | 005131-66-8 | 78 |
| 3 | 3,3-Dimethylbutane-2-ol | 102 | C6H14O | 000464-07-3 | 53 |
| 4 | Butane, 1-(1-methylpropoxy)- | 130 | C8H18O | 000999-65-5 | 50 |
| 5 | Formic acid, 1-methylpropyl ester | 102 | C5H10O2 | 000589-40-2 | 50 |



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Acq On : 14 May 2019 22:09
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Sample : K2738-14
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 32 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** DB8A1

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM051419WMA.M
Quant Title : VOC Analysis

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

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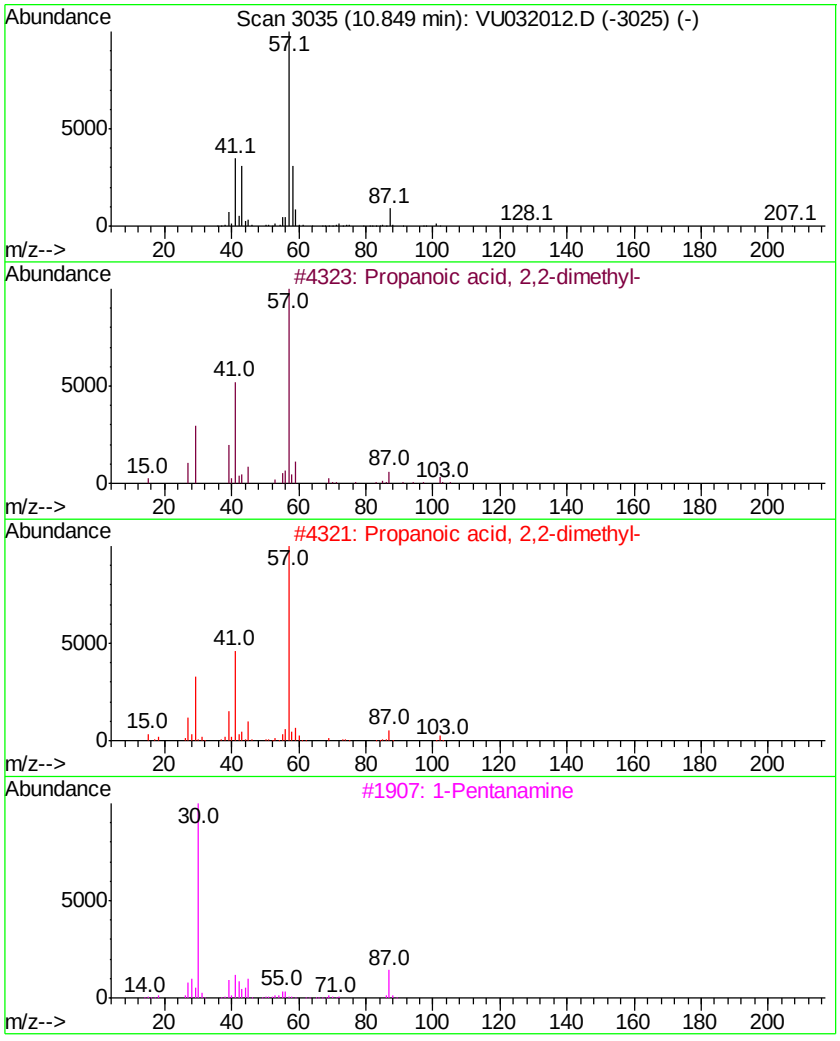
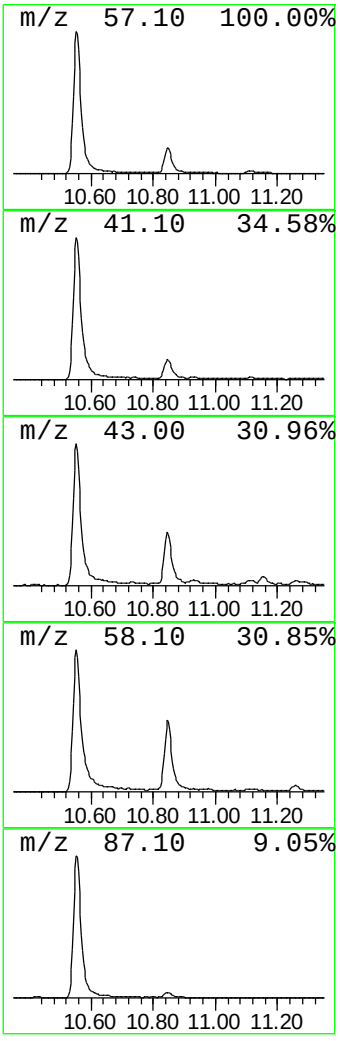
Peak Number 6 unknown-01 Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.85 | 7.74 ug/L | 475941 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Propanoic acid, 2,2-dimethyl- | 102 | C5H10O2 | 000075-98-9 | 25 |
| 2 | Propanoic acid, 2,2-dimethyl- | 102 | C5H10O2 | 000075-98-9 | 25 |
| 3 | 1-Pentanamine | 87 | C5H13N | 000110-58-7 | 9 |
| 4 | S-(-)-2-Methylbutylamine | 87 | C5H13N | 020626-52-2 | 9 |
| 5 | Succindialdehyde | 86 | C4H6O2 | 000638-37-9 | 9 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU051419\
Data File : VU032012.D
Acq On : 14 May 2019 22:09
Operator : JC/SP
Sample : K2738-14
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 32 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** DB8A1

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM051419WMA.M
Quant Title : VOC Analysis

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

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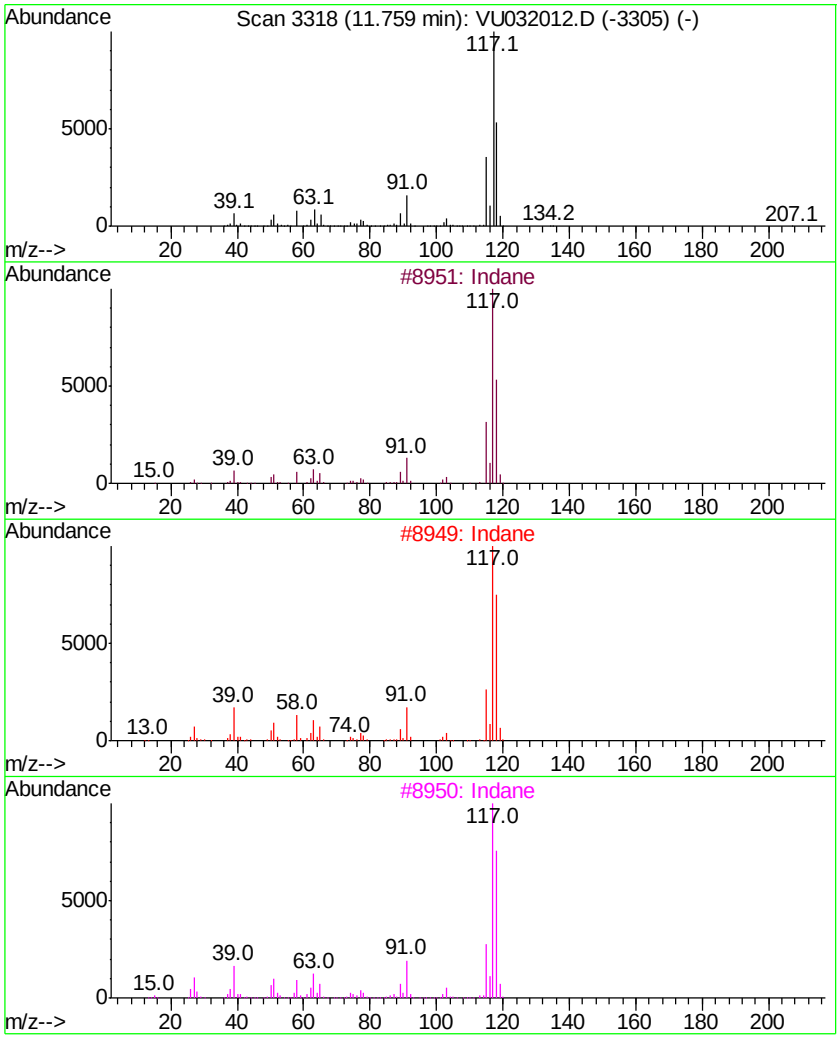
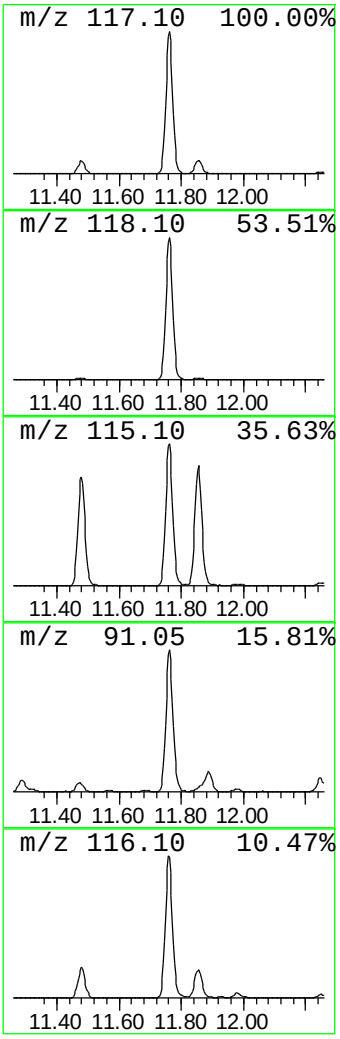
Peak Number 7 Indane Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.76 | 56.71 ug/L | 3485150 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Indane | 118 | C9H10 | 000496-11-7 | 93 |
| 2 | Indane | 118 | C9H10 | 000496-11-7 | 91 |
| 3 | Indane | 118 | C9H10 | 000496-11-7 | 90 |
| 4 | Benzene, 1-ethenyl-4-methyl- | 118 | C9H10 | 000622-97-9 | 74 |
| 5 | Benzene, cyclopropyl- | 118 | C9H10 | 000873-49-4 | 72 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU051419\
Data File : VU032012.D
Acq On : 14 May 2019 22:09
Operator : JC/SP
Sample : K2738-14
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 32 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** DB8A1

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM051419WMA.M
Quant Title : VOC Analysis

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

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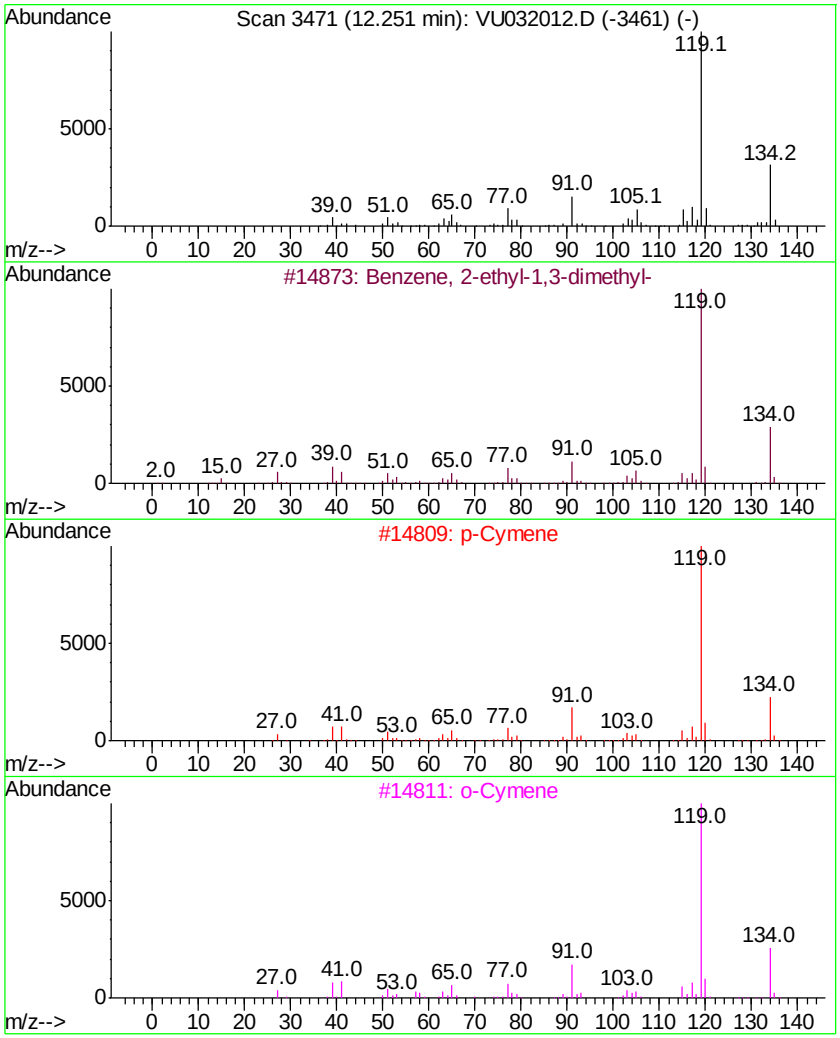
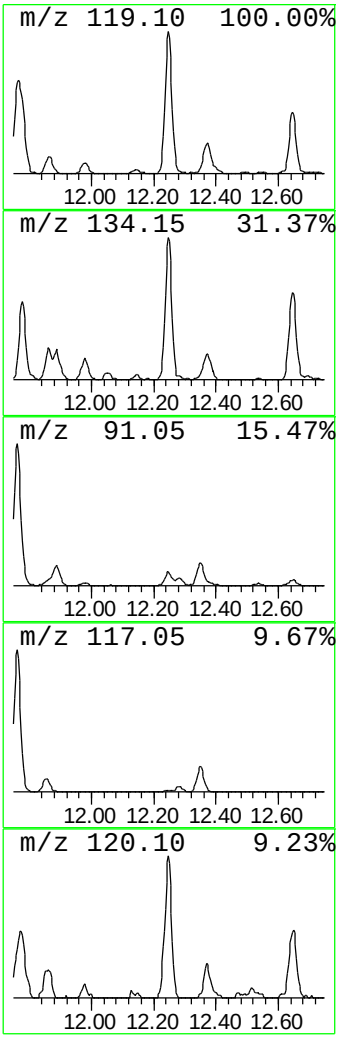
Peak Number 8 Benzene, 2-ethyl-1,3-dimethyl- Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.25 | 4.22 ug/L | 259358 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 2-ethyl-1,3-dimethyl- | 134 | C10H14 | 002870-04-4 | 94 |
| 2 | p-Cymene | 134 | C10H14 | 000099-87-6 | 94 |
| 3 | o-Cymene | 134 | C10H14 | 000527-84-4 | 94 |
| 4 | Benzene, 1-ethyl-2,4-dimethyl- | 134 | C10H14 | 000874-41-9 | 94 |
| 5 | Benzene, 1-ethyl-2,3-dimethyl- | 134 | C10H14 | 000933-98-2 | 94 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU051419\
Data File : VU032012.D
Acq On : 14 May 2019 22:09
Operator : JC/SP
Sample : K2738-14
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 32 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** DB8A1

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM051419WMA.M
Quant Title : VOC Analysis

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

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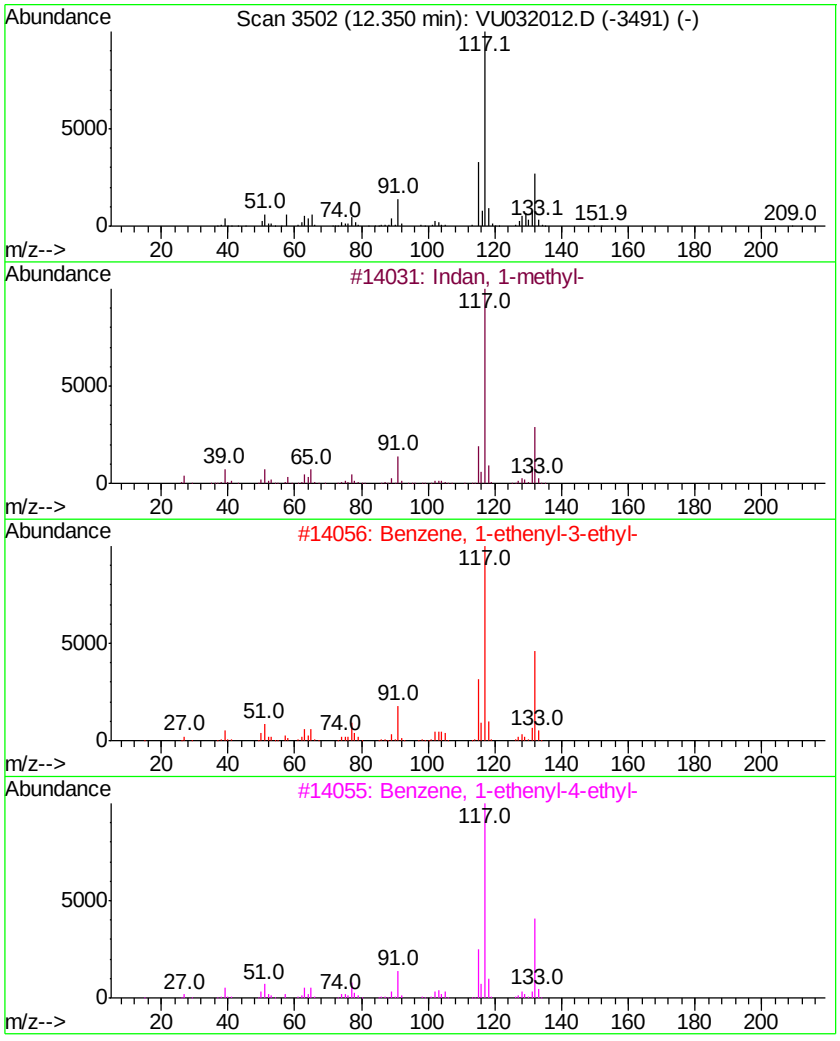
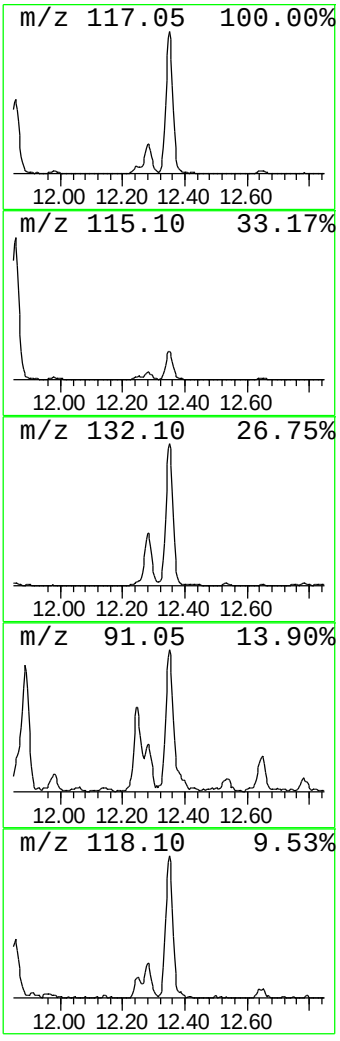
Peak Number 9 Indan, 1-methyl- Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.35 | 10.26 ug/L | 630309 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Indan, 1-methyl- | 132 | C10H12 | 000767-58-8 | 87 |
| 2 | Benzene, 1-ethenyl-3-ethyl- | 132 | C10H12 | 007525-62-4 | 87 |
| 3 | Benzene, 1-ethenyl-4-ethyl- | 132 | C10H12 | 003454-07-7 | 86 |
| 4 | Indan, 1-methyl- | 132 | C10H12 | 000767-58-8 | 81 |
| 5 | Benzene, (2-methyl-2-propenyl)- | 132 | C10H12 | 003290-53-7 | 72 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU051419\
Data File : VU032012.D
Acq On : 14 May 2019 22:09
Operator : JC/SP
Sample : K2738-14
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 32 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** DB8A1

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM051419WMA.M
Quant Title : VOC Analysis

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

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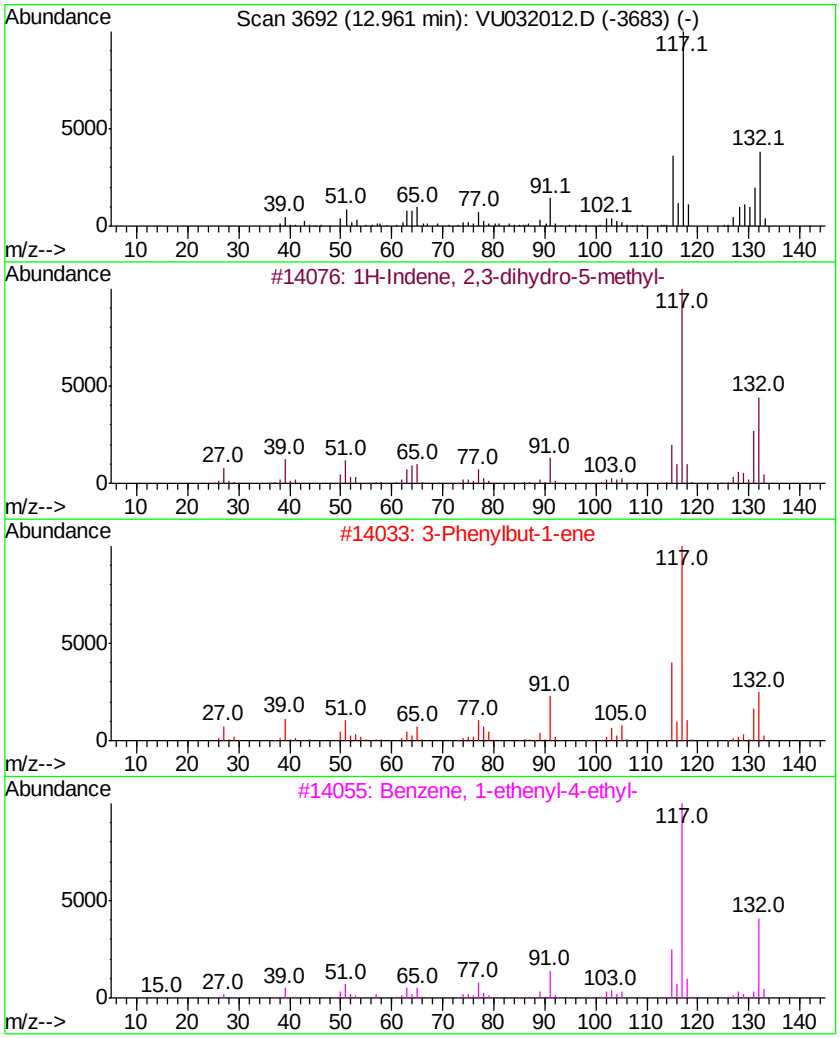
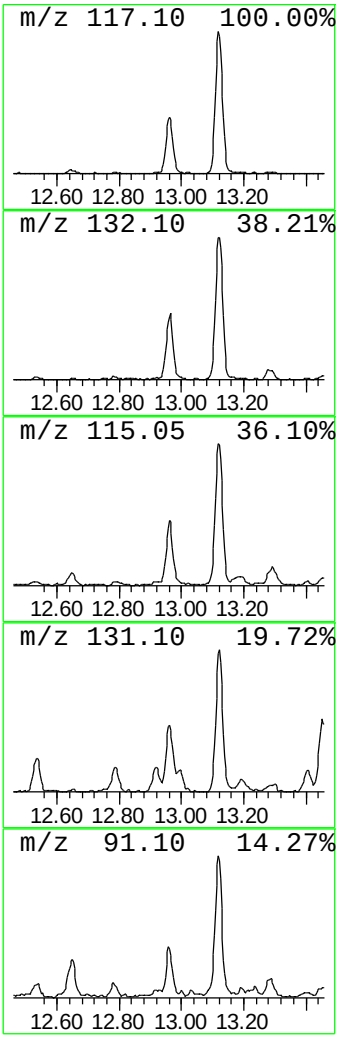
Peak Number 10 1H-Indene, 2,3-dihydro-5-me... Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.96 | 3.75 ug/L | 230621 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1H-Indene, 2,3-dihydro-5-methyl- | 132 | C10H12 | 000874-35-1 | 93 |
| 2 | 3-Phenylbut-1-ene | 132 | C10H12 | 000934-10-1 | 87 |
| 3 | Benzene, 1-ethenyl-4-ethyl- | 132 | C10H12 | 003454-07-7 | 81 |
| 4 | 1H-Indene, 2,3-dihydro-4-methyl- | 132 | C10H12 | 000824-22-6 | 81 |
| 5 | Benzene, 2-ethenyl-1,3-dimethyl- | 132 | C10H12 | 002039-90-9 | 81 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU051419\
Data File : VU032012.D
Acq On : 14 May 2019 22:09
Operator : JC/SP
Sample : K2738-14
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 32 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** DB8A1

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM051419WMA.M
Quant Title : VOC Analysis

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

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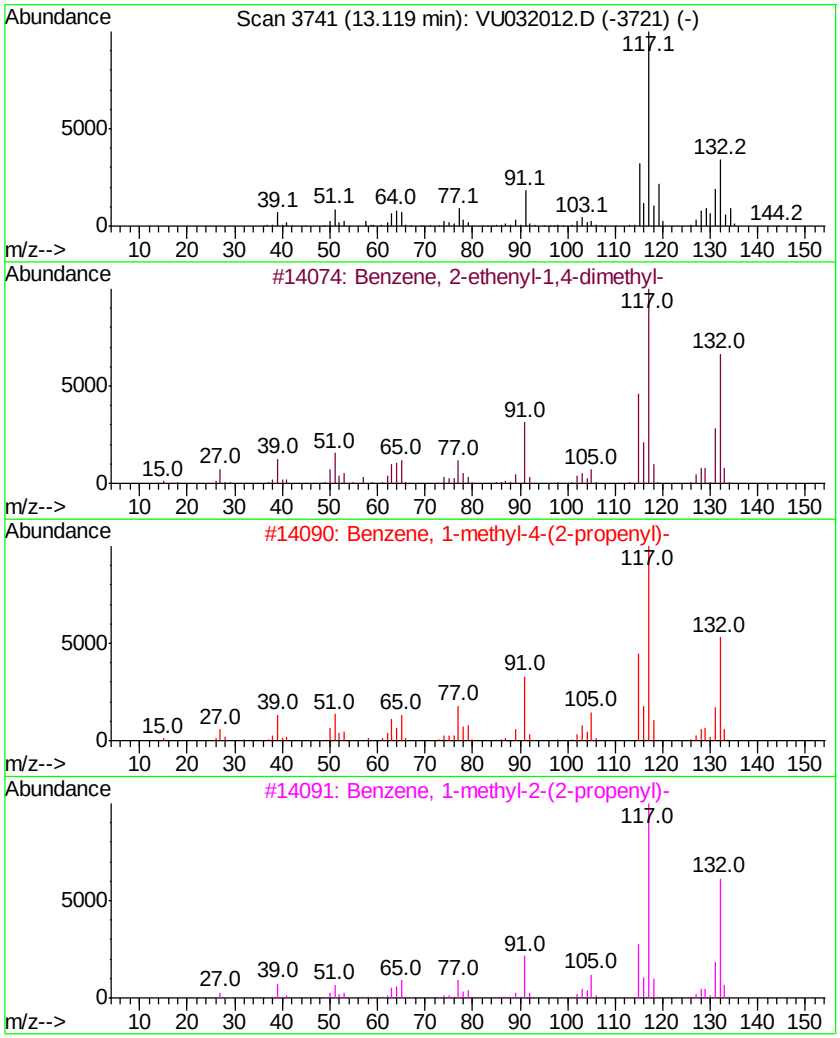
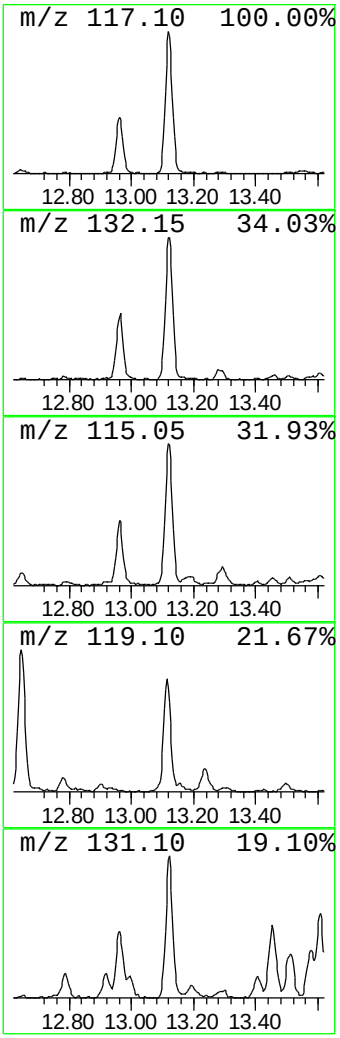
Peak Number 11 Benzene, 2-ethenyl-1,4-dime... Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.12 | 10.00 ug/L | 614470 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 2-ethenyl-1,4-dimethyl- | 132 | C10H12 | 002039-89-6 | 93 |
| 2 | Benzene, 1-methyl-4-(2-propenyl)- | 132 | C10H12 | 003333-13-9 | 83 |
| 3 | Benzene, 1-methyl-2-(2-propenyl)- | 132 | C10H12 | 001587-04-8 | 81 |
| 4 | 1H-Indene, 2,3-dihydro-5-methyl- | 132 | C10H12 | 000874-35-1 | 81 |
| 5 | 3-Phenylbut-1-ene | 132 | C10H12 | 000934-10-1 | 81 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU051419\
Data File : VU032012.D
Acq On : 14 May 2019 22:09
Operator : JC/SP
Sample : K2738-14
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 32 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** DB8A1

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM051419WMA.M
Quant Title : VOC Analysis

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

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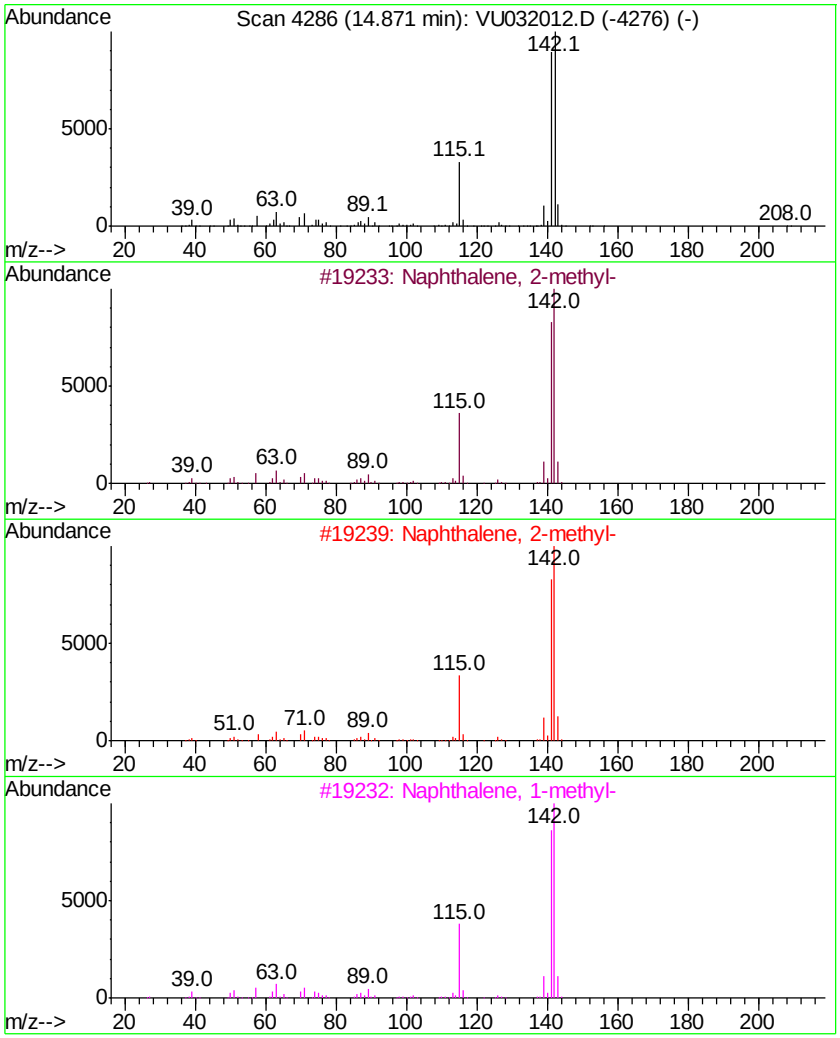
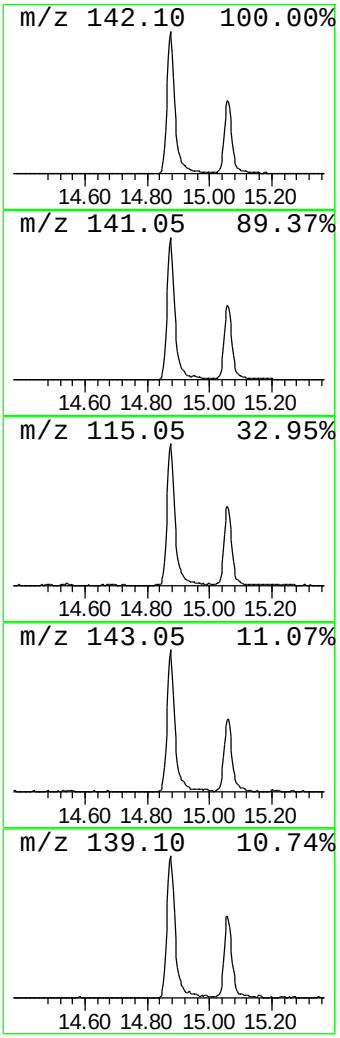
Peak Number 13 Naphthalene, 1-methyl- Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.87 | 17.06 ug/L | 1048580 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2-methyl- | 142 | C11H10 | 000091-57-6 | 97 |
| 2 | Naphthalene, 2-methyl- | 142 | C11H10 | 000091-57-6 | 96 |
| 3 | Naphthalene, 1-methyl- | 142 | C11H10 | 000090-12-0 | 95 |
| 4 | Naphthalene, 2-methyl- | 142 | C11H10 | 000091-57-6 | 94 |
| 5 | Benzocycloheptatriene | 142 | C11H10 | 000264-09-5 | 91 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU051419\
Data File : VU032012.D
Acq On : 14 May 2019 22:09
Operator : JC/SP
Sample : K2738-14
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 32 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** DB8A1

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM051419WMA.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 |
| 2-Propanol, 2-met... | 2.83 | 2.7 | ug/L | 139177 | 1 | 5.88 | 2539960 | 50.0 |
| (DEL) Alkane: Cyc... | 4.09 | 7.8 | ug/L | 393649 | 1 | 5.88 | 2539960 | 50.0 |
| Hexanal | 8.46 | 5.3 | ug/L | 328250 | 2 | 9.08 | 3107160 | 50.0 |
| 2-Propanol, 1-but... | 10.55 | 98.5 | ug/L | 6054210 | 3 | 11.48 | 3072780 | 50.0 |
| unknown-01 | 10.85 | 7.7 | ug/L | 475941 | 3 | 11.48 | 3072780 | 50.0 |
| Indane | 11.76 | 56.7 | ug/L | 3485150 | 3 | 11.48 | 3072780 | 50.0 |
| Benzene, 2-ethyl-... | 12.25 | 4.2 | ug/L | 259358 | 3 | 11.48 | 3072780 | 50.0 |
| Indan, 1-methyl- | 12.35 | 10.3 | ug/L | 630309 | 3 | 11.48 | 3072780 | 50.0 |
| 1H-Indene, 2,3-di... | 12.96 | 3.8 | ug/L | 230621 | 3 | 11.48 | 3072780 | 50.0 |
| Benzene, 2-etheny... | 13.12 | 10.0 | ug/L | 614470 | 3 | 11.48 | 3072780 | 50.0 |
| Naphthalene, 1-me... | 14.87 | 17.1 | ug/L | 1048580 | 3 | 11.48 | 3072780 | 50.0 |