LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU100219\
Data File : VU034901.D
Acq On : 01 Oct 2019 20:30
Operator : JC/SP
Sample : K5028-09
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BFDK8

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\SOMULM100119WMA.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 | 22 | 27 | 33 | rBV2 | 10575 | 10820 | 0.49% | 0.037% |
| 2 | 1.392 | 86 | 94 | 106 | rBV | 168422 | 180522 | 8.15% | 0.623% |
| 3 | 1.466 | 109 | 117 | 127 | rBV | 98740 | 107643 | 4.86% | 0.372% |
| 4 | 1.540 | 134 | 140 | 148 | rVB | 11922 | 14438 | 0.65% | 0.050% |
| 5 | 1.672 | 173 | 181 | 195 | rVB | 139610 | 175530 | 7.92% | 0.606% |
| 6 | 1.875 | 236 | 244 | 254 | rBV | 42697 | 58200 | 2.63% | 0.201% |
| 7 | 2.257 | 351 | 363 | 372 | rBV | 271536 | 416404 | 18.80% | 1.438% |
| 8 | 2.305 | 372 | 378 | 397 | rVB | 116305 | 184964 | 8.35% | 0.639% |
| 9 | 2.608 | 462 | 472 | 480 | rBV3 | 2972 | 5696 | 0.26% | 0.020% |
| 10 | 2.685 | 483 | 496 | 514 | rVV | 170784 | 311024 | 14.04% | 1.074% |
| 11 | 2.820 | 525 | 538 | 555 | rVB3 | 13359 | 33034 | 1.49% | 0.114% |
| 12 | 3.164 | 634 | 645 | 660 | rBV2 | 7877 | 16866 | 0.76% | 0.058% |
| 13 | 3.547 | 751 | 764 | 776 | rBV4 | 3345 | 7780 | 0.35% | 0.027% |
| 14 | 4.067 | 913 | 926 | 927 | rBV5 | 5157 | 7609 | 0.34% | 0.026% |
| 15 | 4.151 | 939 | 952 | 972 | rBV | 162851 | 433682 | 19.58% | 1.498% |
| 16 | 4.244 | 974 | 981 | 1006 | rVB | 26737 | 75517 | 3.41% | 0.261% |
| 17 | 4.621 | 1081 | 1098 | 1123 | rBV | 234587 | 559542 | 25.26% | 1.932% |
| 18 | 4.971 | 1196 | 1207 | 1221 | rVB5 | 5304 | 12183 | 0.55% | 0.042% |
| 19 | 5.315 | 1291 | 1314 | 1328 | rBV2 | 481136 | 1466723 | 66.22% | 5.065% |
| 20 | 5.527 | 1369 | 1380 | 1398 | rBV2 | 54091 | 116961 | 5.28% | 0.404% |
| 21 | 5.865 | 1470 | 1485 | 1508 | rBV | 468882 | 1010624 | 45.63% | 3.490% |
| 22 | 6.309 | 1609 | 1623 | 1640 | rBV | 336449 | 676281 | 30.53% | 2.335% |
| 23 | 6.518 | 1681 | 1688 | 1694 | rBV3 | 4294 | 6958 | 0.31% | 0.024% |
| 24 | 6.563 | 1694 | 1702 | 1705 | rBV2 | 9139 | 13631 | 0.62% | 0.047% |
| 25 | 6.685 | 1727 | 1740 | 1774 | rBV | 1220575 | 2214963 | 100.00% | 7.648% |
| 26 | 7.042 | 1842 | 1851 | 1862 | rVB7 | 5881 | 12105 | 0.55% | 0.042% |
| 27 | 7.206 | 1890 | 1902 | 1924 | rBV | 183999 | 340558 | 15.38% | 1.176% |
| 28 | 7.402 | 1944 | 1963 | 1974 | rBV | 147282 | 263586 | 11.90% | 0.910% |
| 29 | 7.543 | 1994 | 2007 | 2023 | rBV | 653509 | 1169391 | 52.80% | 4.038% |
| 30 | 7.617 | 2025 | 2030 | 2044 | rVB | 21482 | 36425 | 1.64% | 0.126% |
| 31 | 7.829 | 2084 | 2096 | 2122 | rBV2 | 157673 | 294330 | 13.29% | 1.016% |
| 32 | 8.135 | 2179 | 2191 | 2207 | rBV | 235079 | 393241 | 17.75% | 1.358% |
| 33 | 8.215 | 2208 | 2216 | 2218 | rVV3 | 16312 | 22383 | 1.01% | 0.077% |
| 34 | 8.241 | 2219 | 2224 | 2229 | rVV2 | 33148 | 48221 | 2.18% | 0.167% |

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Sample : K5028-09
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BFDK8

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\SOMULM100119WMA.M
Title : VOC Analysis

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 8.289 | 2229 | 2239 | 2262 | rVV | 634530 | 1142846 | 51.60% | 3.946% |
| 36 | 8.395 | 2262 | 2272 | 2301 | rVV | 420257 | 721592 | 32.58% | 2.492% |
| 37 | 8.508 | 2301 | 2307 | 2324 | rVB2 | 19416 | 37827 | 1.71% | 0.131% |
| 38 | 8.884 | 2411 | 2424 | 2455 | rBV | 484630 | 772152 | 34.86% | 2.666% |
| 39 | 9.067 | 2462 | 2481 | 2518 | rVB | 680397 | 1275099 | 57.57% | 4.403% |
| 40 | 9.228 | 2520 | 2531 | 2544 | rBV | 156768 | 252123 | 11.38% | 0.871% |
| 41 | 9.357 | 2558 | 2571 | 2590 | rBV | 527874 | 865066 | 39.06% | 2.987% |
| 42 | 9.476 | 2602 | 2608 | 2619 | rVB8 | 4551 | 7197 | 0.32% | 0.025% |
| 43 | 9.585 | 2634 | 2642 | 2652 | rVV2 | 12270 | 19370 | 0.87% | 0.067% |
| 44 | 9.755 | 2683 | 2695 | 2719 | rVV | 1035383 | 1686003 | 76.12% | 5.822% |
| 45 | 9.929 | 2740 | 2749 | 2758 | rVB7 | 4171 | 8131 | 0.37% | 0.028% |
| 46 | 10.144 | 2804 | 2816 | 2832 | rVB | 79303 | 127195 | 5.74% | 0.439% |
| 47 | 10.305 | 2850 | 2866 | 2873 | rBV | 2391 | 5573 | 0.25% | 0.019% |
| 48 | 10.408 | 2886 | 2898 | 2916 | rBV | 472735 | 767210 | 34.64% | 2.649% |
| 49 | 10.566 | 2932 | 2947 | 2967 | rBV | 128072 | 213257 | 9.63% | 0.736% |
| 50 | 10.685 | 2967 | 2984 | 2995 | rVV | 171896 | 339994 | 15.35% | 1.174% |
| 51 | 10.749 | 2995 | 3004 | 3025 | rVB | 55438 | 98833 | 4.46% | 0.341% |
| 52 | 10.897 | 3039 | 3050 | 3056 | rBV | 23562 | 37952 | 1.71% | 0.131% |
| 53 | 10.948 | 3056 | 3066 | 3087 | rVB | 320715 | 518984 | 23.43% | 1.792% |
| 54 | 11.074 | 3092 | 3105 | 3108 | rBV8 | 4073 | 7510 | 0.34% | 0.026% |
| 55 | 11.125 | 3109 | 3121 | 3139 | rBV | 1200833 | 1799956 | 81.26% | 6.215% |
| 56 | 11.218 | 3139 | 3150 | 3160 | rBV2 | 47432 | 79229 | 3.58% | 0.274% |
| 57 | 11.299 | 3169 | 3175 | 3192 | rVB3 | 26472 | 43935 | 1.98% | 0.152% |
| 58 | 11.402 | 3192 | 3207 | 3214 | rBV5 | 18971 | 34367 | 1.55% | 0.119% |
| 59 | 11.459 | 3214 | 3225 | 3241 | rVV | 683682 | 1126084 | 50.84% | 3.888% |
| 60 | 11.546 | 3241 | 3252 | 3268 | rVB | 545859 | 858897 | 38.78% | 2.966% |
| 61 | 11.662 | 3283 | 3288 | 3292 | rBV2 | 4922 | 5416 | 0.24% | 0.019% |
| 62 | 11.742 | 3302 | 3313 | 3331 | rBV | 396181 | 683369 | 30.85% | 2.360% |
| 63 | 11.836 | 3331 | 3342 | 3369 | rVB2 | 700763 | 1357425 | 61.28% | 4.687% |
| 64 | 11.958 | 3371 | 3380 | 3394 | rBV4 | 24868 | 39703 | 1.79% | 0.137% |
| 65 | 12.032 | 3394 | 3403 | 3418 | rVB2 | 37841 | 66200 | 2.99% | 0.229% |
| 66 | 12.122 | 3420 | 3431 | 3436 | rBV | 80157 | 127053 | 5.74% | 0.439% |
| 67 | 12.154 | 3437 | 3441 | 3452 | rVB | 75507 | 98569 | 4.45% | 0.340% |
| 68 | 12.228 | 3453 | 3464 | 3472 | rBV | 123856 | 196888 | 8.89% | 0.680% |
| 69 | 12.331 | 3486 | 3496 | 3525 | rVB3 | 88636 | 192956 | 8.71% | 0.666% |
| 70 | 12.472 | 3532 | 3540 | 3545 | rBV9 | 5059 | 7018 | 0.32% | 0.024% |
| 71 | 12.530 | 3547 | 3558 | 3567 | rVV | 47837 | 77317 | 3.49% | 0.267% |

LSC Area Percent Report

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Sample : K5028-09
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BFDK8

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\SOMULM100119WMA.M
Title : VOC Analysis

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 12.594 | 3568 | 3578 | 3581 | rVV2 | 26920 | 40232 | 1.82% | 0.139% |
| 73 | 12.627 | 3581 | 3588 | 3596 | rVV | 84871 | 134760 | 6.08% | 0.465% |
| 74 | 12.681 | 3596 | 3605 | 3618 | rVB | 134001 | 209490 | 9.46% | 0.723% |
| 75 | 12.765 | 3623 | 3631 | 3637 | rBV5 | 7725 | 12104 | 0.55% | 0.042% |
| 76 | 12.874 | 3657 | 3665 | 3677 | rBV5 | 13321 | 25752 | 1.16% | 0.089% |
| 77 | 12.942 | 3677 | 3686 | 3703 | rVB2 | 92542 | 148558 | 6.71% | 0.513% |
| 78 | 13.006 | 3703 | 3706 | 3715 | rVB5 | 5579 | 5833 | 0.26% | 0.020% |
| 79 | 13.099 | 3717 | 3735 | 3747 | rBV2 | 240802 | 416303 | 18.80% | 1.438% |
| 80 | 13.164 | 3750 | 3755 | 3766 | rVB4 | 24865 | 40794 | 1.84% | 0.141% |
| 81 | 13.270 | 3778 | 3788 | 3806 | rBV4 | 58349 | 111129 | 5.02% | 0.384% |
| 82 | 13.382 | 3819 | 3823 | 3830 | rVB4 | 9844 | 11812 | 0.53% | 0.041% |
| 83 | 13.434 | 3831 | 3839 | 3848 | rVB2 | 20245 | 30452 | 1.37% | 0.105% |
| 84 | 13.488 | 3848 | 3856 | 3871 | rBV6 | 28844 | 60196 | 2.72% | 0.208% |
| 85 | 13.556 | 3872 | 3877 | 3881 | rBV | 7232 | 7704 | 0.35% | 0.027% |
| 86 | 13.588 | 3881 | 3887 | 3894 | rBV | 15351 | 18990 | 0.86% | 0.066% |
| 87 | 13.720 | 3915 | 3928 | 3954 | rBV | 280840 | 514694 | 23.24% | 1.777% |
| 88 | 13.836 | 3956 | 3964 | 3979 | rVV4 | 19151 | 45226 | 2.04% | 0.156% |
| 89 | 13.922 | 3981 | 3991 | 4006 | rVV10 | 19101 | 47833 | 2.16% | 0.165% |
| 90 | 13.993 | 4006 | 4013 | 4024 | rVB3 | 9894 | 15260 | 0.69% | 0.053% |
| 91 | 14.135 | 4046 | 4057 | 4071 | rBV2 | 20549 | 38572 | 1.74% | 0.133% |
| 92 | 14.318 | 4102 | 4114 | 4125 | rBV6 | 19542 | 44936 | 2.03% | 0.155% |
| 93 | 14.456 | 4147 | 4157 | 4168 | rVV5 | 11387 | 25179 | 1.14% | 0.087% |
| 94 | 14.517 | 4168 | 4176 | 4192 | rVB4 | 15089 | 26072 | 1.18% | 0.090% |
| 95 | 14.659 | 4215 | 4220 | 4230 | rVB10 | 5255 | 9492 | 0.43% | 0.033% |
| 96 | 14.803 | 4258 | 4265 | 4271 | rBV5 | 5809 | 8274 | 0.37% | 0.029% |
| 97 | 14.858 | 4271 | 4282 | 4304 | rVV | 112262 | 203784 | 9.20% | 0.704% |
| 98 | 15.041 | 4328 | 4339 | 4356 | rBV | 160777 | 272876 | 12.32% | 0.942% |
| 99 | 16.044 | 4644 | 4651 | 4659 | rBV9 | 8865 | 14405 | 0.65% | 0.050% |
| 100 | 16.723 | 4854 | 4862 | 4876 | rVB2 | 13233 | 23006 | 1.04% | 0.079% |

Sum of corrected areas: 28959849

LSC Report - Integrated Chromatogram

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU100219\
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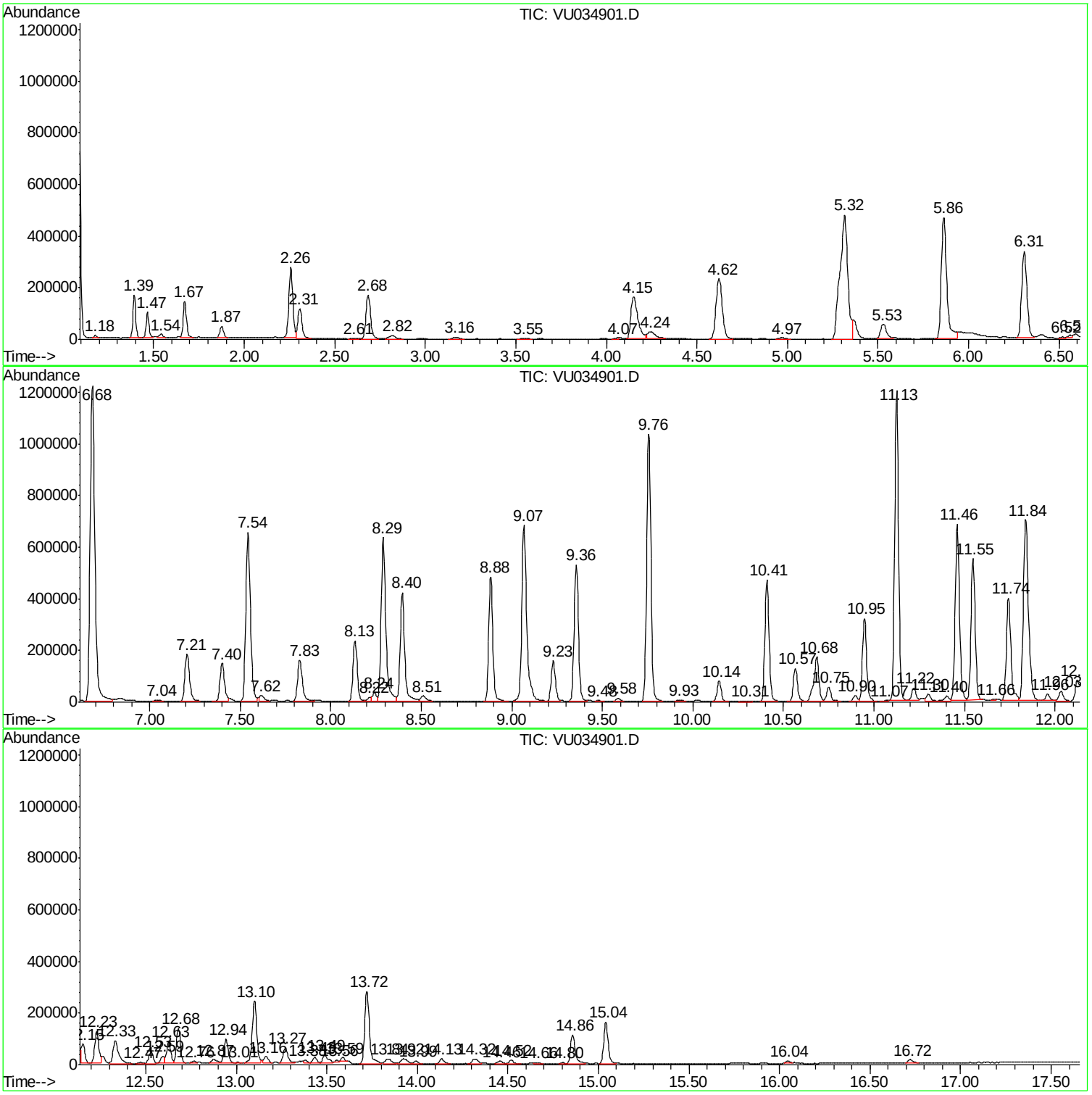
Sample : K5028-09
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BFDK8

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM100119WMA.M
Quant Title : VOC Analysis

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



Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU100219\
Data File : VU034901.D
Acq On : 01 Oct 2019 20:30
Operator : JC/SP
Sample : K5028-09
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BFDK8

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM100119WMA.M
Quant Title : VOC Analysis

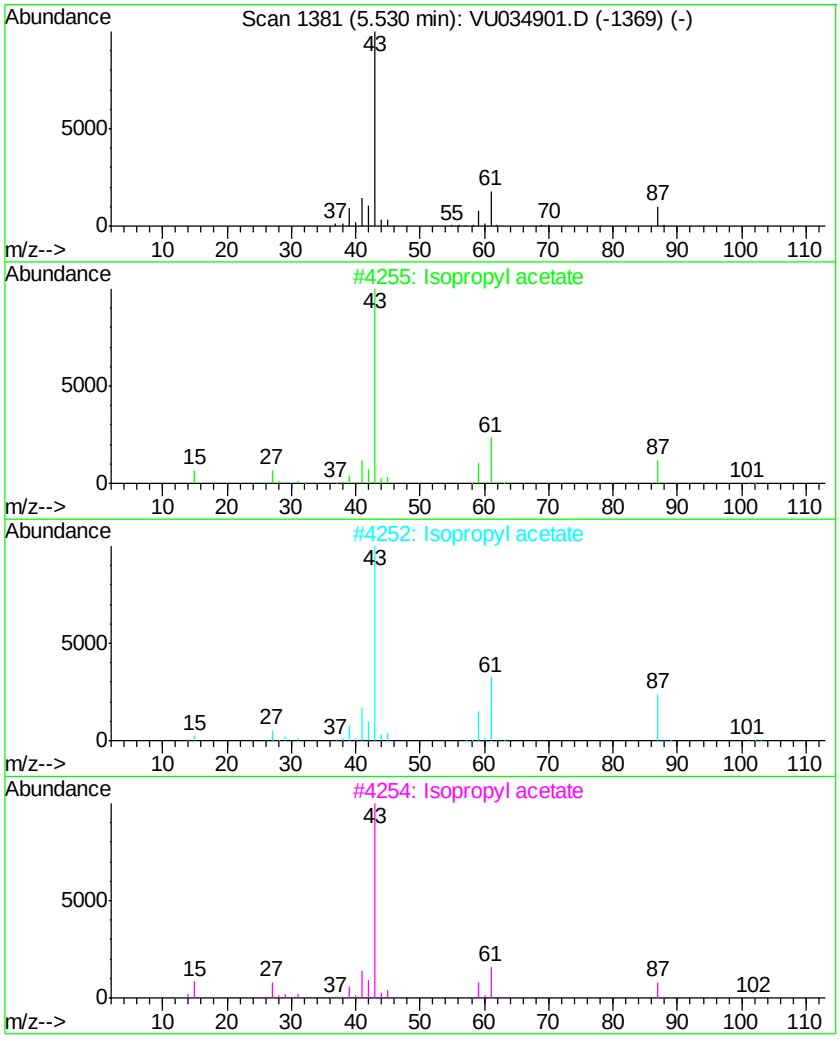
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

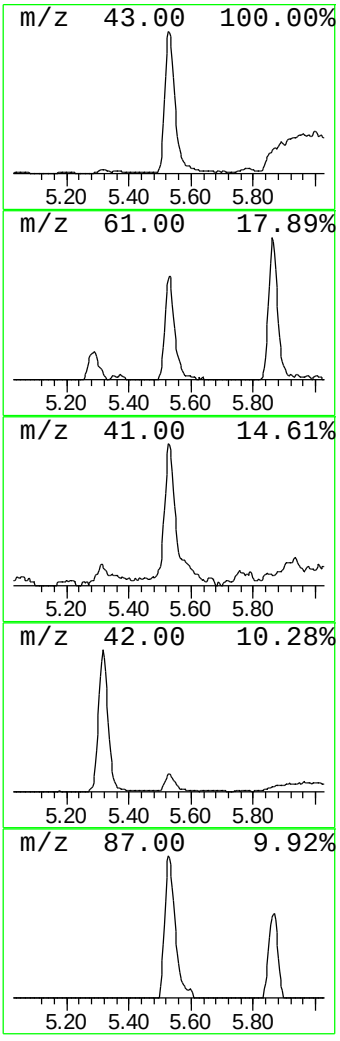
**********

Peak Number 2 Isopropyl acetate Concentration Rank 22

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.53 | 5.79 ug/L | 116961 | 1,4-Difluorobenzene | 5.86 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Isopropyl acetate | 102 | C5H10O2 | 000108-21-4 | 83 |
| 2 | Isopropyl acetate | 102 | C5H10O2 | 000108-21-4 | 78 |
| 3 | Isopropyl acetate | 102 | C5H10O2 | 000108-21-4 | 64 |
| 4 | Isopropyl acetate | 102 | C5H10O2 | 000108-21-4 | 56 |
| 5 | n-Propyl acetate | 102 | C5H10O2 | 000109-60-4 | 9 |



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Operator : JC/SP
Sample : K5028-09
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ALS Vial : 14 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BFDK8

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM100119WMA.M
Quant Title : VOC Analysis

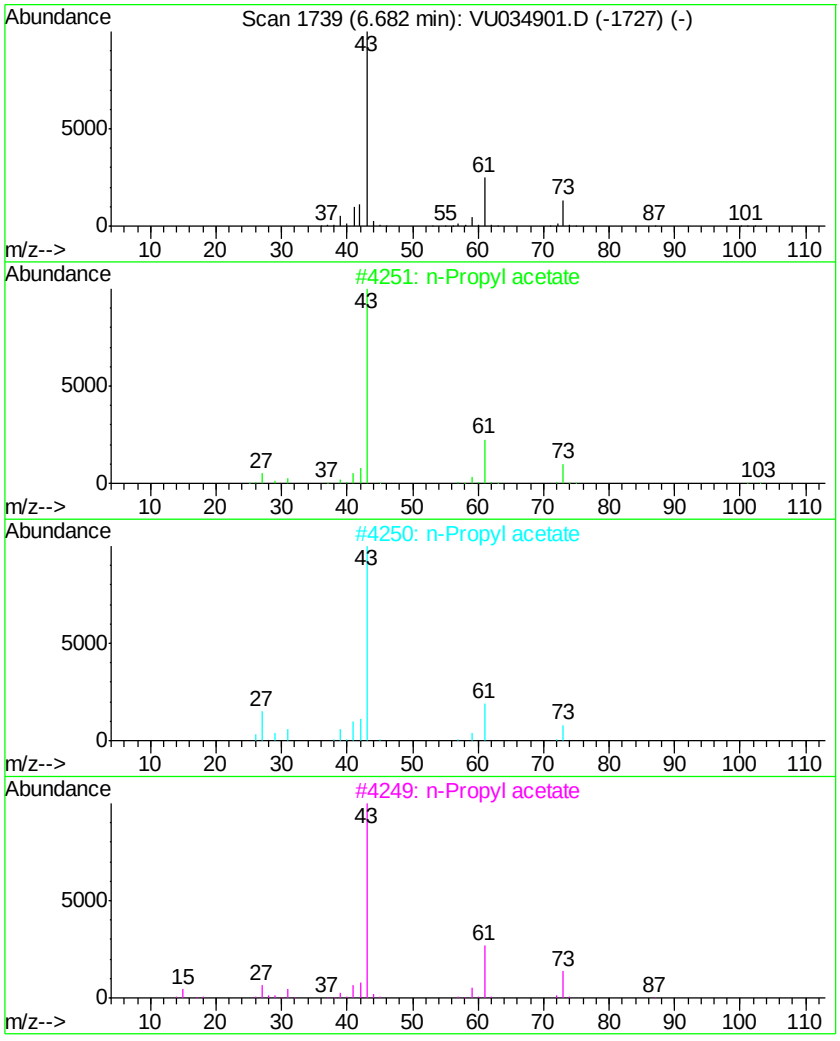
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

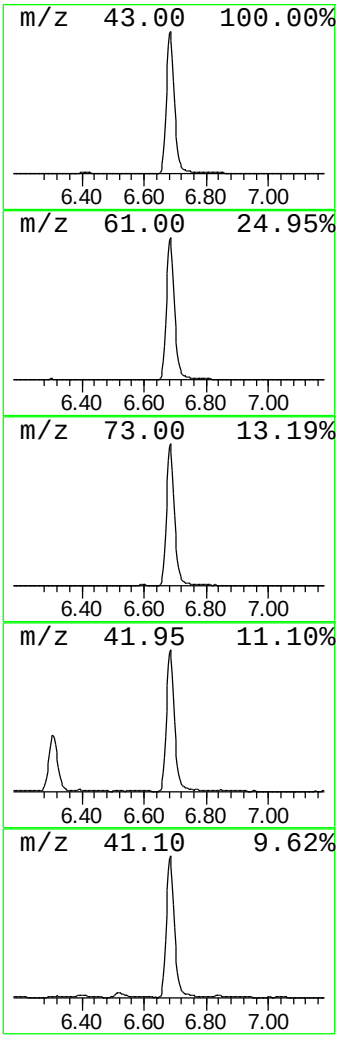
**********

Peak Number 3 n-Propyl acetate Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.68 | 109.58 ug/L | 2214960 | 1,4-Difluorobenzene | 5.86 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | n-Propyl acetate | 102 | C5H10O2 | 000109-60-4 | 83 |
| 2 | n-Propyl acetate | 102 | C5H10O2 | 000109-60-4 | 78 |
| 3 | n-Propyl acetate | 102 | C5H10O2 | 000109-60-4 | 78 |
| 4 | Isopropyl acetate | 102 | C5H10O2 | 000108-21-4 | 36 |
| 5 | Isobutyl acetate | 116 | C6H12O2 | 000110-19-0 | 9 |



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Data File : VU034901.D
Acq On : 01 Oct 2019 20:30
Operator : JC/SP
Sample : K5028-09
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BFDK8

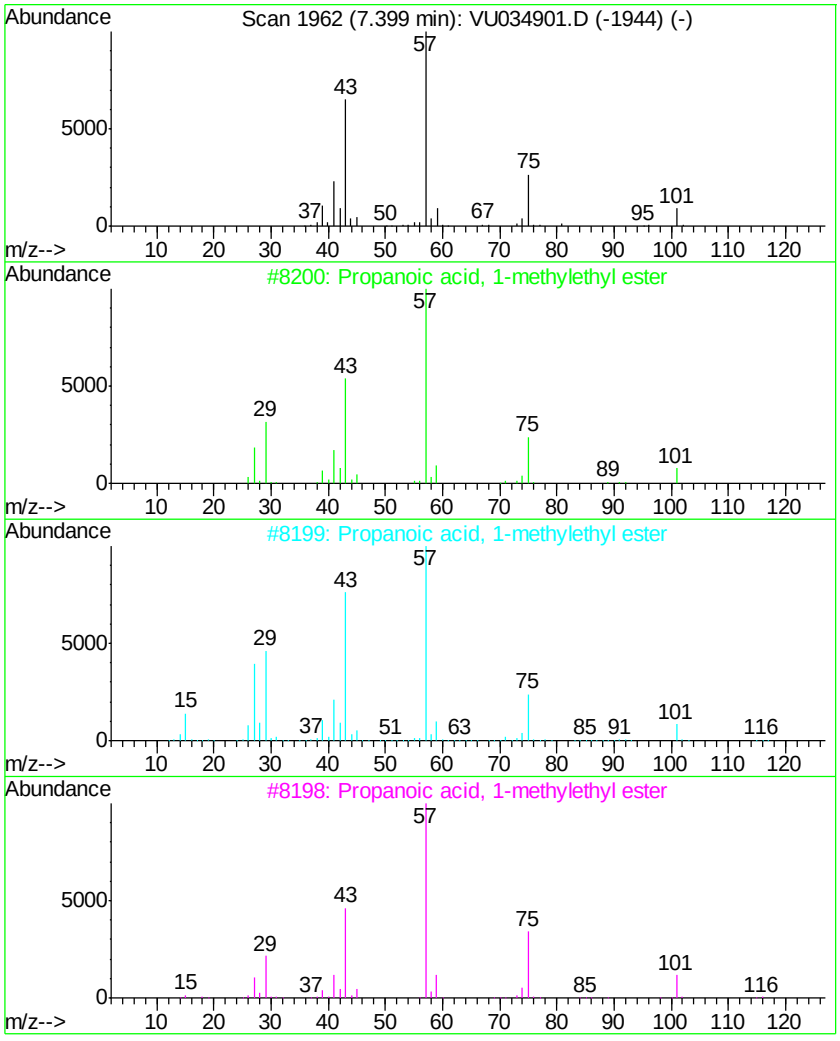
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM100119WMA.M
Quant Title : VOC Analysis

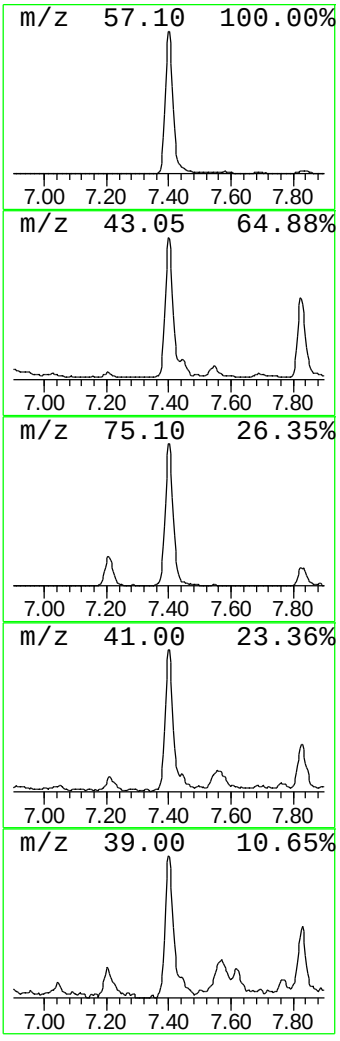
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 5 Propanoic acid, 1-methyleth... Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.40 | 13.04 ug/L | 263586 | 1,4-Difluorobenzene | 5.86 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Propanoic acid, 1-methylethyl ester | 116 | C6H12O2 | 000637-78-5 | 83 |
| 2 | Propanoic acid, 1-methylethyl ester | 116 | C6H12O2 | 000637-78-5 | 83 |
| 3 | Propanoic acid, 1-methylethyl ester | 116 | C6H12O2 | 000637-78-5 | 78 |
| 4 | Propanoic acid, 1-methylethyl ester | 116 | C6H12O2 | 000637-78-5 | 45 |
| 5 | Propanoic acid, propyl ester | 116 | C6H12O2 | 000106-36-5 | 45 |



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ALS Vial : 14 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BFDK8

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM100119WMA.M
Quant Title : VOC Analysis

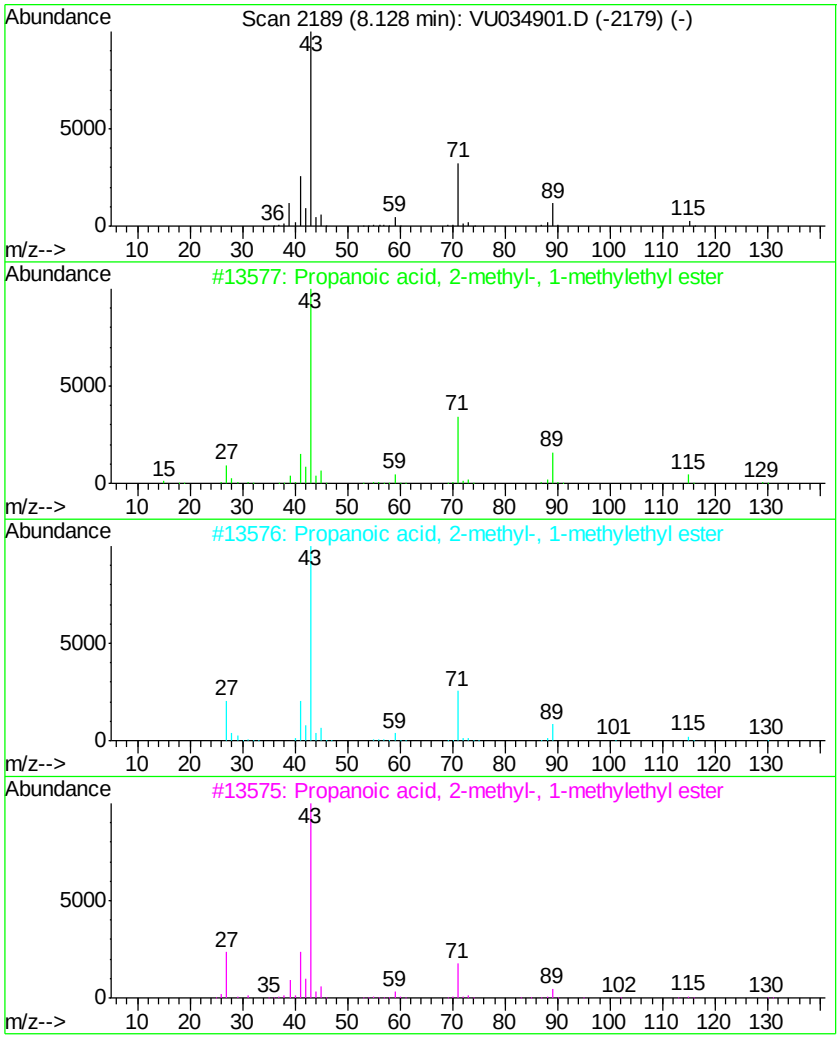
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

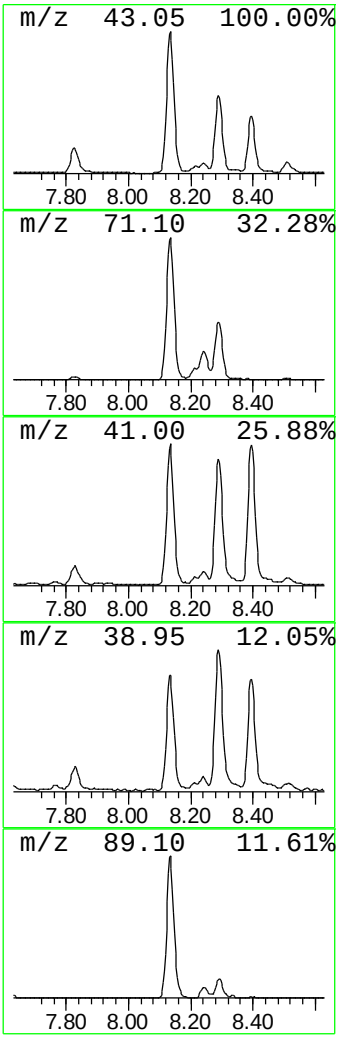
**********

Peak Number 6 Propanoic acid, 2-methyl-, ... Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.13 | 15.42 ug/L | 393241 | Chlorobenzene-d5 | 9.07 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Propanoic acid, 2-methyl-, 1-met... | 130 | C7H14O2 | 000617-50-5 | 83 |
| 2 | Propanoic acid, 2-methyl-, 1-met... | 130 | C7H14O2 | 000617-50-5 | 83 |
| 3 | Propanoic acid, 2-methyl-, 1-met... | 130 | C7H14O2 | 000617-50-5 | 78 |
| 4 | Propanoic acid, 2-methyl-, 1-met... | 130 | C7H14O2 | 000617-50-5 | 56 |
| 5 | N-Hydroxymethylacetamide | 89 | C3H7NO2 | 000625-51-4 | 53 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU100219\
Data File : VU034901.D
Acq On : 01 Oct 2019 20:30
Operator : JC/SP
Sample : K5028-09
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BFDK8

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM100119WMA.M
Quant Title : VOC Analysis

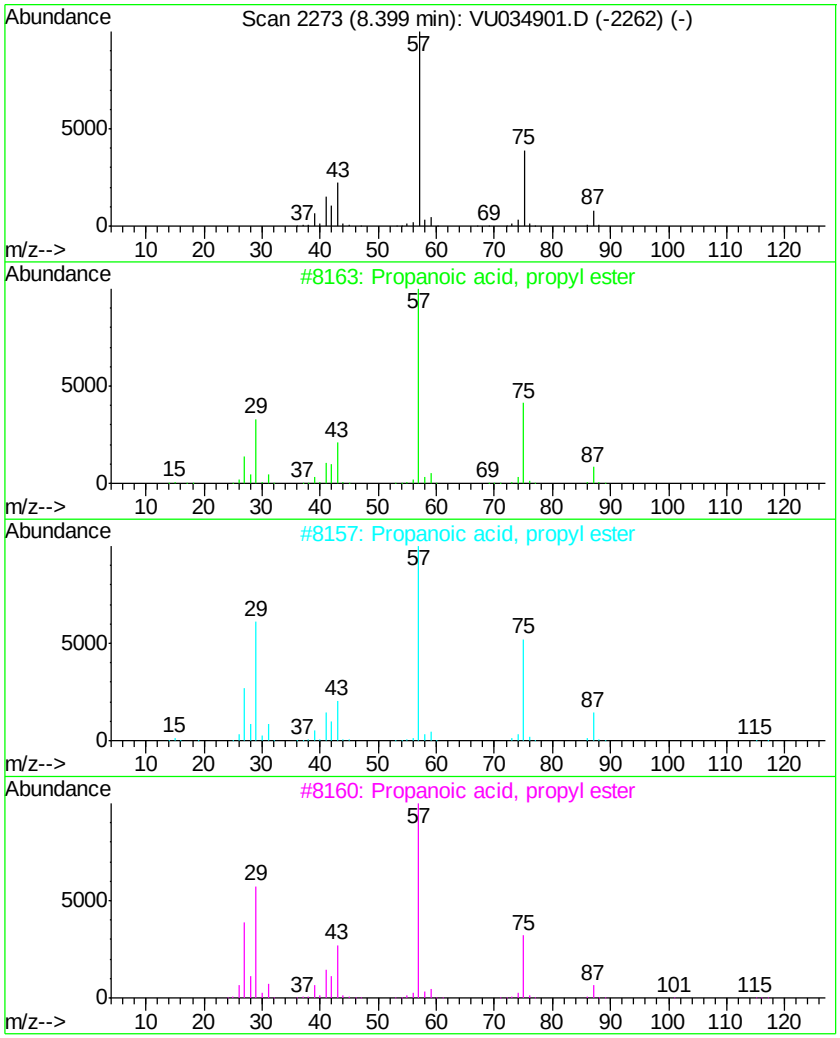
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

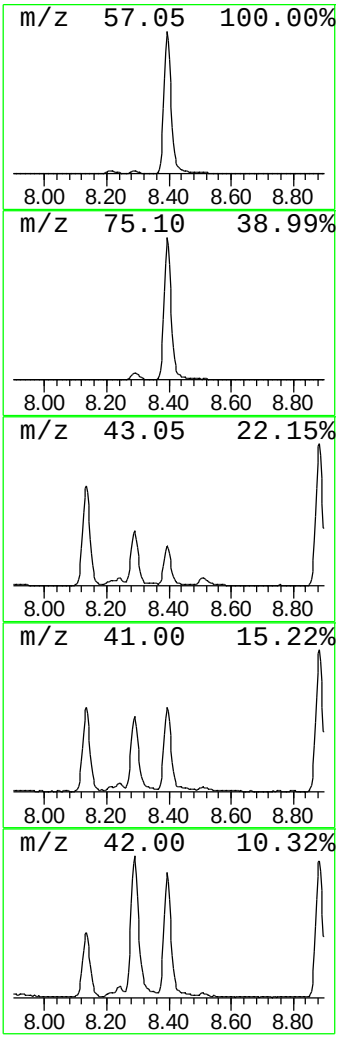
**********

Peak Number 7 Propanoic acid, propyl ester Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.40 | 28.30 ug/L | 721592 | Chlorobenzene-d5 | 9.07 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Propanoic acid, propyl ester | 116 | C6H12O2 | 000106-36-5 | 83 |
| 2 | Propanoic acid, propyl ester | 116 | C6H12O2 | 000106-36-5 | 83 |
| 3 | Propanoic acid, propyl ester | 116 | C6H12O2 | 000106-36-5 | 83 |
| 4 | Propanoic acid, propyl ester | 116 | C6H12O2 | 000106-36-5 | 78 |
| 5 | Propanoic acid, butyl ester | 130 | C7H14O2 | 000590-01-2 | 38 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU100219\
Data File : VU034901.D
Acq On : 01 Oct 2019 20:30
Operator : JC/SP
Sample : K5028-09
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BFDK8

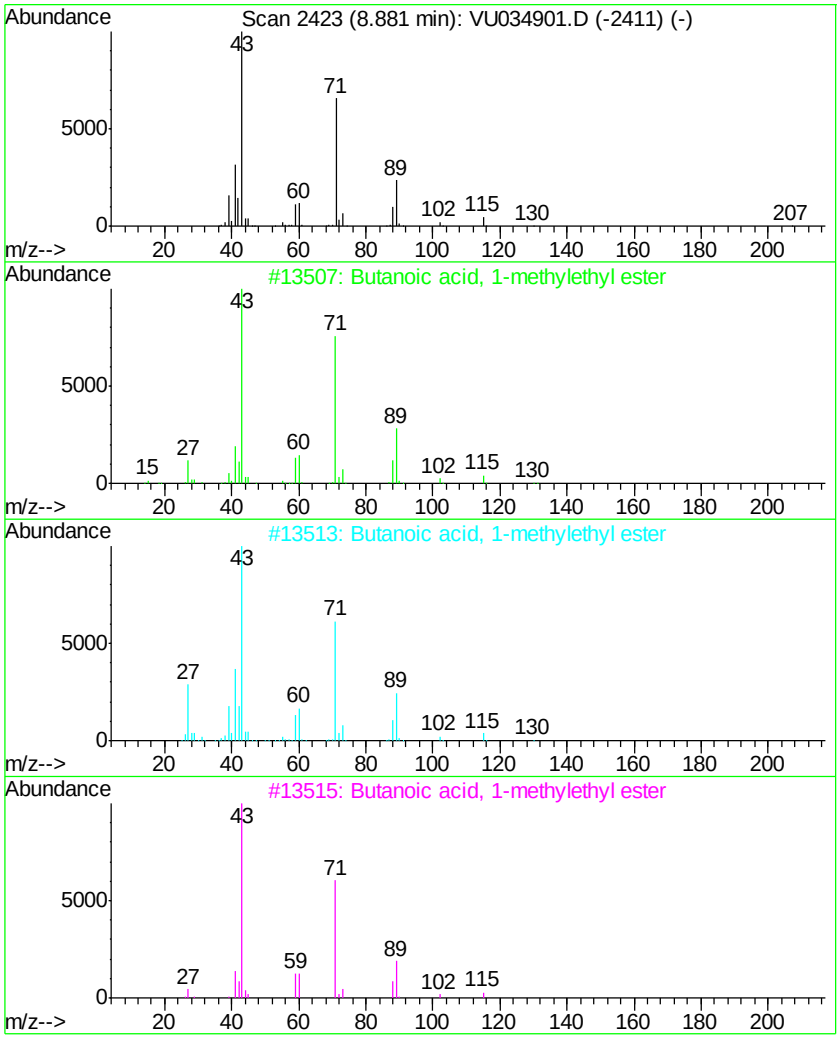
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM100119WMA.M
Quant Title : VOC Analysis

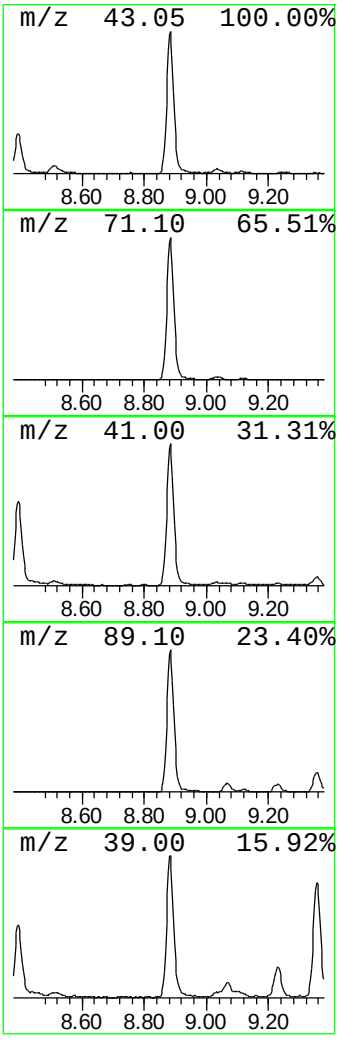
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 8 Butanoic acid, 1-methylethy... Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.88 | 30.28 ug/L | 772152 | Chlorobenzene-d5 | 9.07 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butanoic acid, 1-methylethyl ester | 130 | C7H14O2 | 000638-11-9 | 91 |
| 2 | Butanoic acid, 1-methylethyl ester | 130 | C7H14O2 | 000638-11-9 | 90 |
| 3 | Butanoic acid, 1-methylethyl ester | 130 | C7H14O2 | 000638-11-9 | 90 |
| 4 | Butanoic acid, 1-methylethyl ester | 130 | C7H14O2 | 000638-11-9 | 86 |
| 5 | Propanoic acid, 2-methyl-, 1-met... | 130 | C7H14O2 | 000617-50-5 | 72 |



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Data File : VU034901.D
Acq On : 01 Oct 2019 20:30
Operator : JC/SP
Sample : K5028-09
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BFDK8

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM100119WMA.M
Quant Title : VOC Analysis

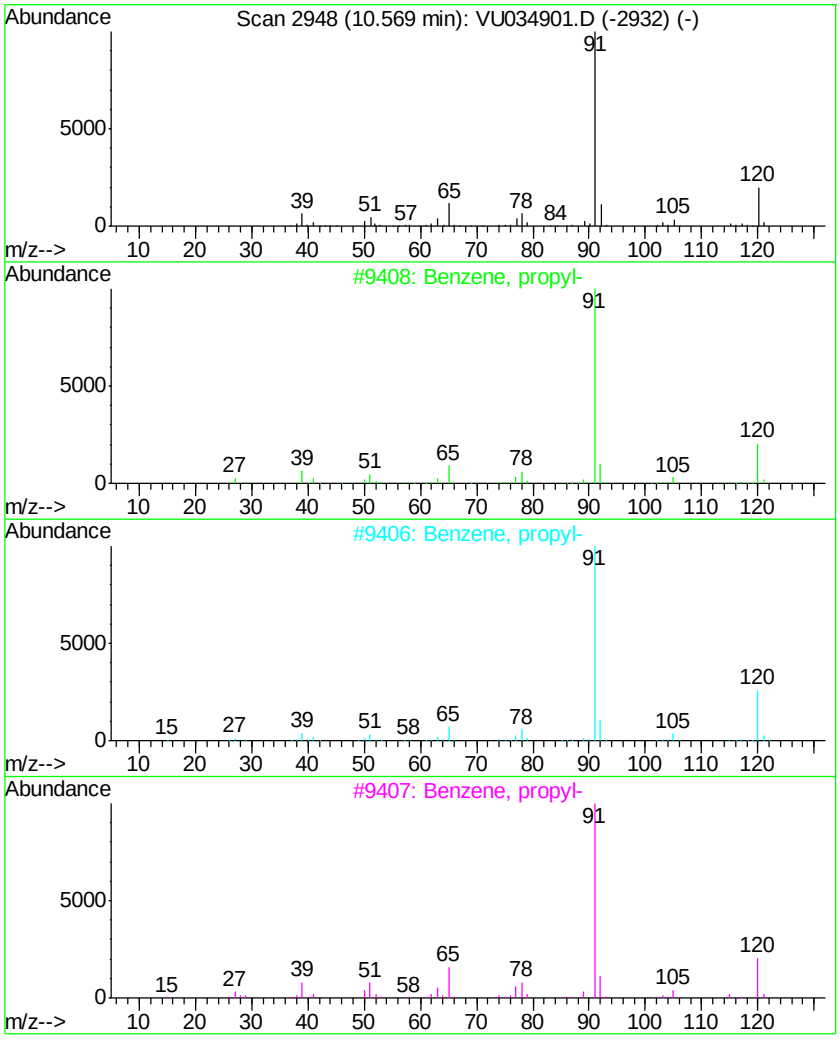
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

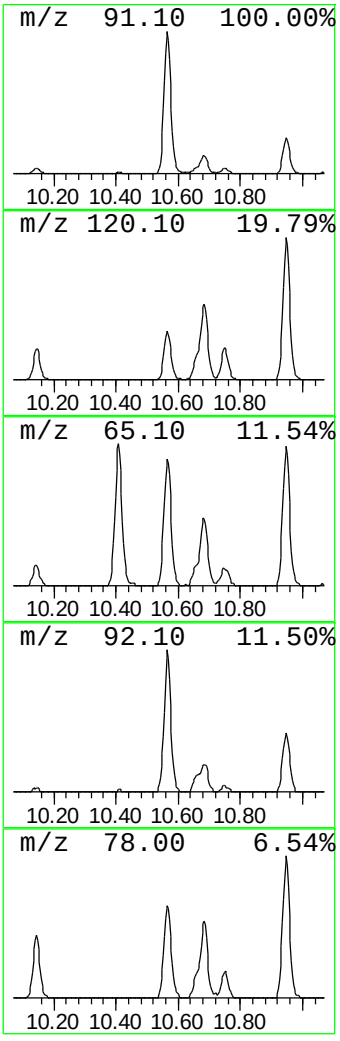
**********

Peak Number 9 Benzene, propyl- Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.57 | 9.47 ug/L | 213257 | 1,4-Dichlorobenzene-d4 | 11.46 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, propyl- | 120 | C9H12 | 000103-65-1 | 90 |
| 2 | Benzene, propyl- | 120 | C9H12 | 000103-65-1 | 86 |
| 3 | Benzene, propyl- | 120 | C9H12 | 000103-65-1 | 81 |
| 4 | Ethanol, 2-[(phenylmethyl)amino]- | 151 | C9H13NO | 000104-63-2 | 72 |
| 5 | Benzeneacetaldehyde | 120 | C8H8O | 000122-78-1 | 53 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU100219\
Data File : VU034901.D
Acq On : 01 Oct 2019 20:30
Operator : JC/SP
Sample : K5028-09
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BFDK8

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM100119WMA.M
Quant Title : VOC Analysis

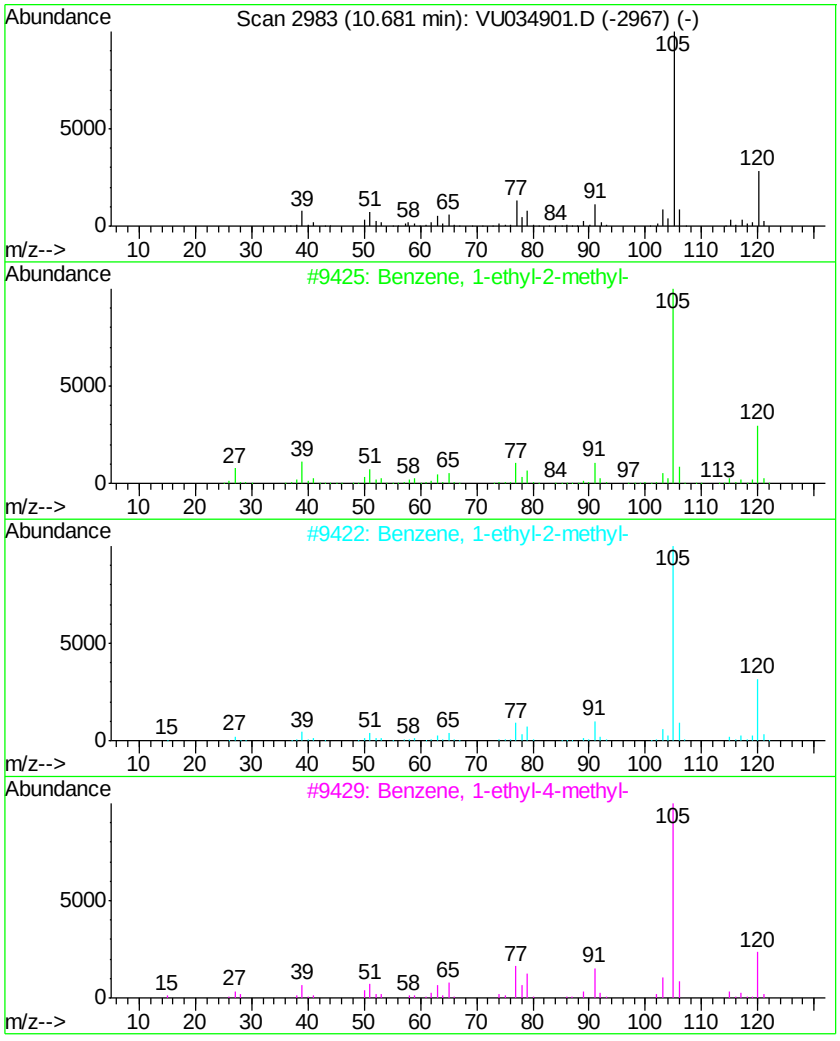
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

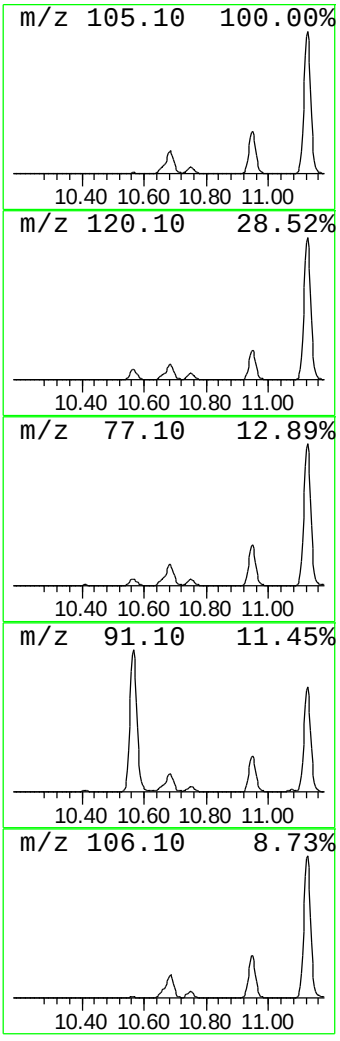
**********

Peak Number 10 Benzene, 1-ethyl-2-methyl- Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.68 | 15.10 ug/L | 339994 | 1,4-Dichlorobenzene-d4 | 11.46 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-ethyl-2-methyl- | 120 | C9H12 | 000611-14-3 | 95 |
| 2 | Benzene, 1-ethyl-2-methyl- | 120 | C9H12 | 000611-14-3 | 94 |
| 3 | Benzene, 1-ethyl-4-methyl- | 120 | C9H12 | 000622-96-8 | 93 |
| 4 | Benzene, 1-ethyl-2-methyl- | 120 | C9H12 | 000611-14-3 | 93 |
| 5 | Mesitylene | 120 | C9H12 | 000108-67-8 | 91 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU100219\
Data File : VU034901.D
Acq On : 01 Oct 2019 20:30
Operator : JC/SP
Sample : K5028-09
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BFDK8

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM100119WMA.M
Quant Title : VOC Analysis

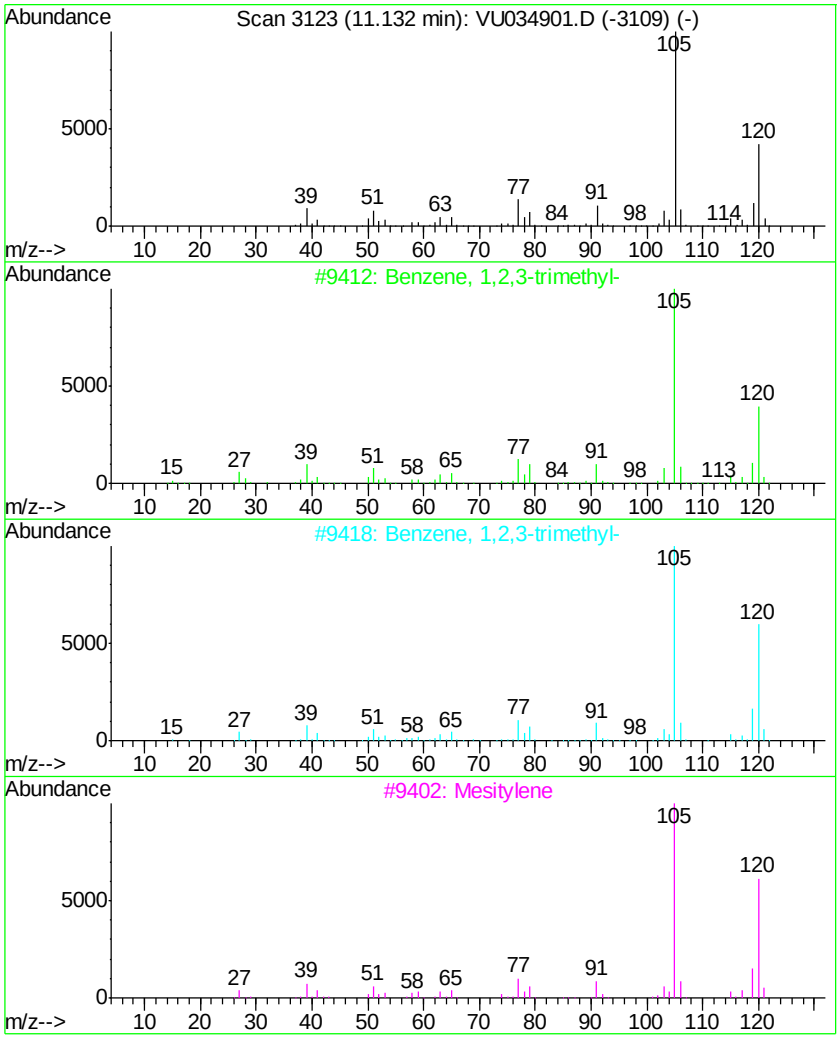
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

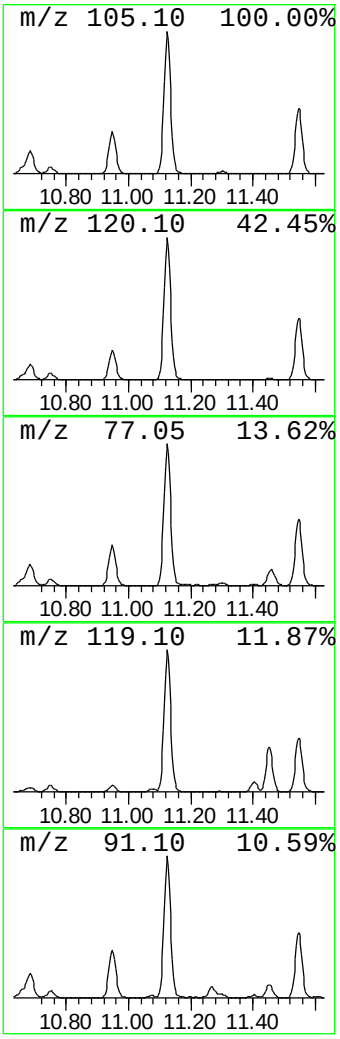
**********

Peak Number 13 Benzene, 1,2,3-trimethyl- Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.13 | 79.92 ug/L | 1799960 | 1,4-Dichlorobenzene-d4 | 11.46 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1,2,3-trimethyl- | 120 | C9H12 | 000526-73-8 | 97 |
| 2 | Benzene, 1,2,3-trimethyl- | 120 | C9H12 | 000526-73-8 | 97 |
| 3 | Mesitylene | 120 | C9H12 | 000108-67-8 | 97 |
| 4 | Benzene, 1,2,4-trimethyl- | 120 | C9H12 | 000095-63-6 | 94 |
| 5 | Mesitylene | 120 | C9H12 | 000108-67-8 | 94 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU100219\
Data File : VU034901.D
Acq On : 01 Oct 2019 20:30
Operator : JC/SP
Sample : K5028-09
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BFDK8

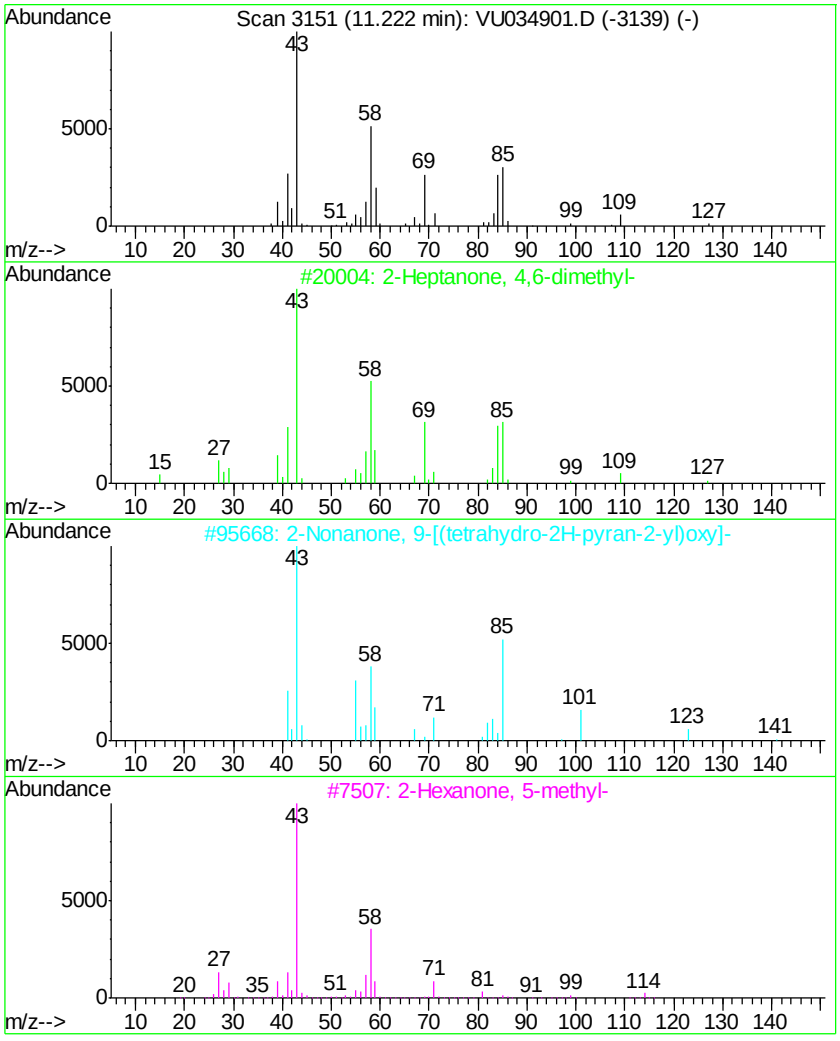
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM100119WMA.M
Quant Title : VOC Analysis

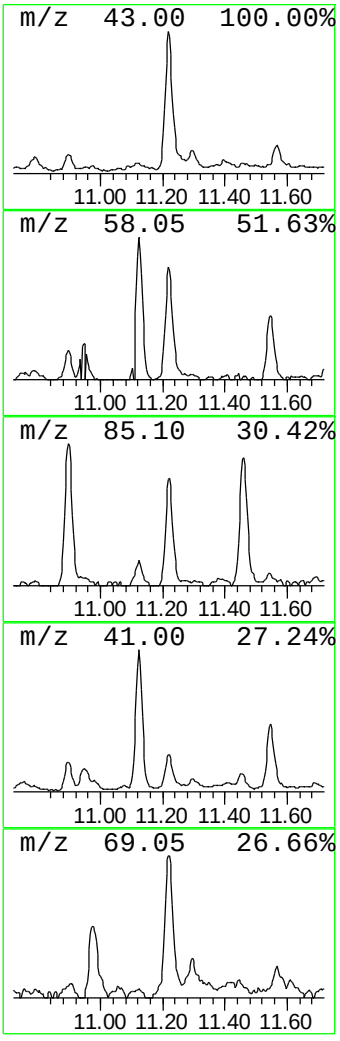
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 14 2-Heptanone, 4,6-dimethyl- Concentration Rank 28

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.22 | 3.52 ug/L | 79229 | 1,4-Dichlorobenzene-d4 | 11.46 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Heptanone, 4,6-dimethyl- | 142 | C9H18O | 019549-80-5 | 86 |
| 2 | 2-Nonanone, 9-[(tetrahydro-2H-py... | 242 | C14H26O3 | 054699-41-1 | 50 |
| 3 | 2-Hexanone, 5-methyl- | 114 | C7H14O | 000110-12-3 | 50 |
| 4 | 2-Hexanone, 4-methyl- | 114 | C7H14O | 000105-42-0 | 50 |
| 5 | 2-Hexanone, 4-methyl- | 114 | C7H14O | 000105-42-0 | 43 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU100219\
Data File : VU034901.D
Acq On : 01 Oct 2019 20:30
Operator : JC/SP
Sample : K5028-09
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BFDK8

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM100119WMA.M
Quant Title : VOC Analysis

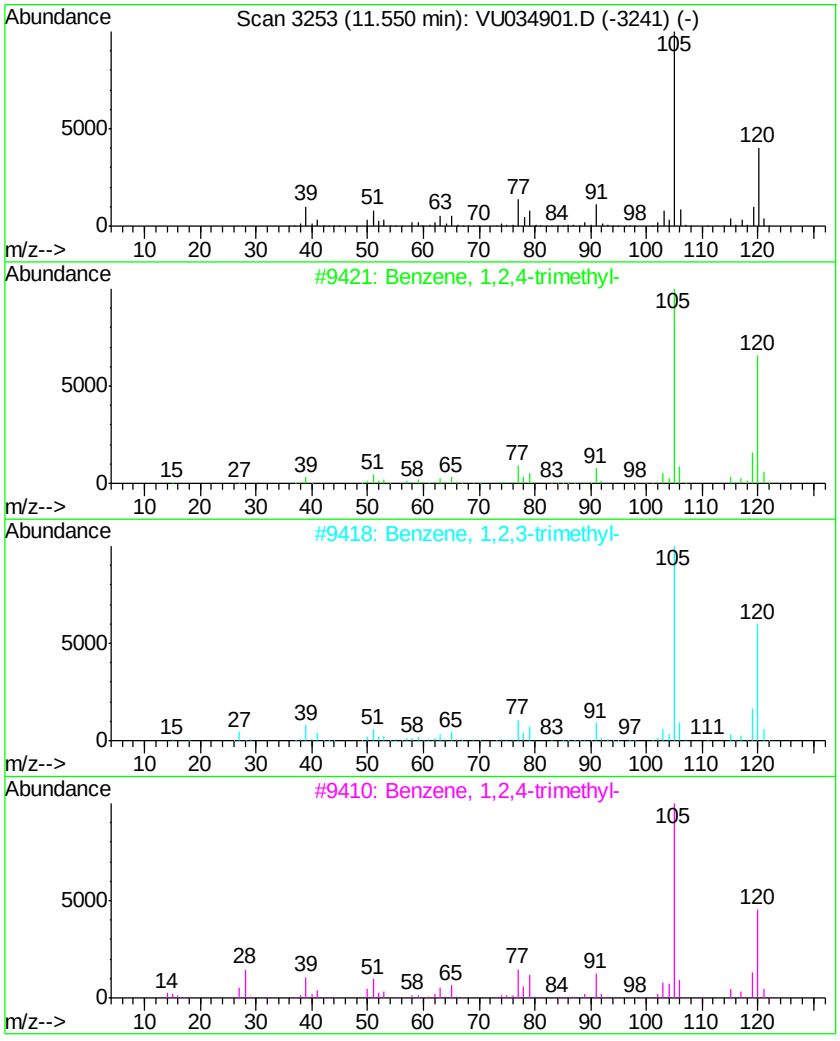
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

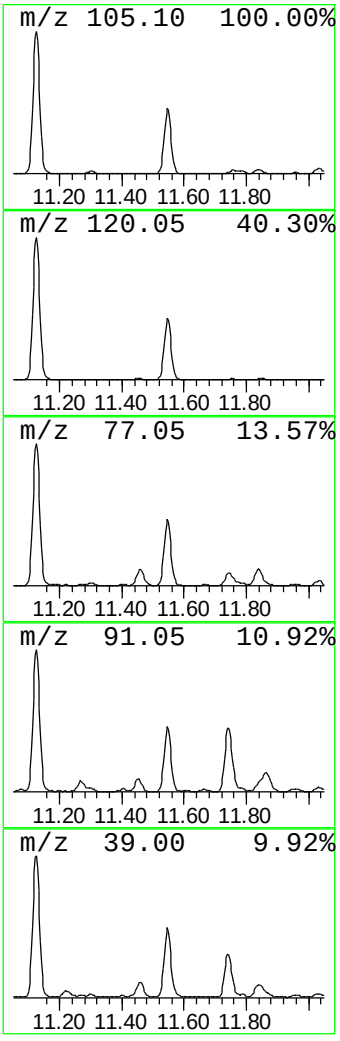
**********

Peak Number 15 Benzene, 1,2,4-trimethyl- Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.55 | 38.14 ug/L | 858897 | 1,4-Dichlorobenzene-d4 | 11.46 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1,2,4-trimethyl- | 120 | C9H12 | 000095-63-6 | 94 |
| 2 | Benzene, 1,2,3-trimethyl- | 120 | C9H12 | 000526-73-8 | 94 |
| 3 | Benzene, 1,2,4-trimethyl- | 120 | C9H12 | 000095-63-6 | 94 |
| 4 | Benzene, 1-ethyl-3-methyl- | 120 | C9H12 | 000620-14-4 | 91 |
| 5 | Mesitylene | 120 | C9H12 | 000108-67-8 | 91 |



# Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU100219\
Data File : VU034901.D
Acq On : 01 Oct 2019 20:30
Operator : JC/SP
Sample : K5028-09
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BFDK8

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM100119WMA.M
Quant Title : VOC Analysis

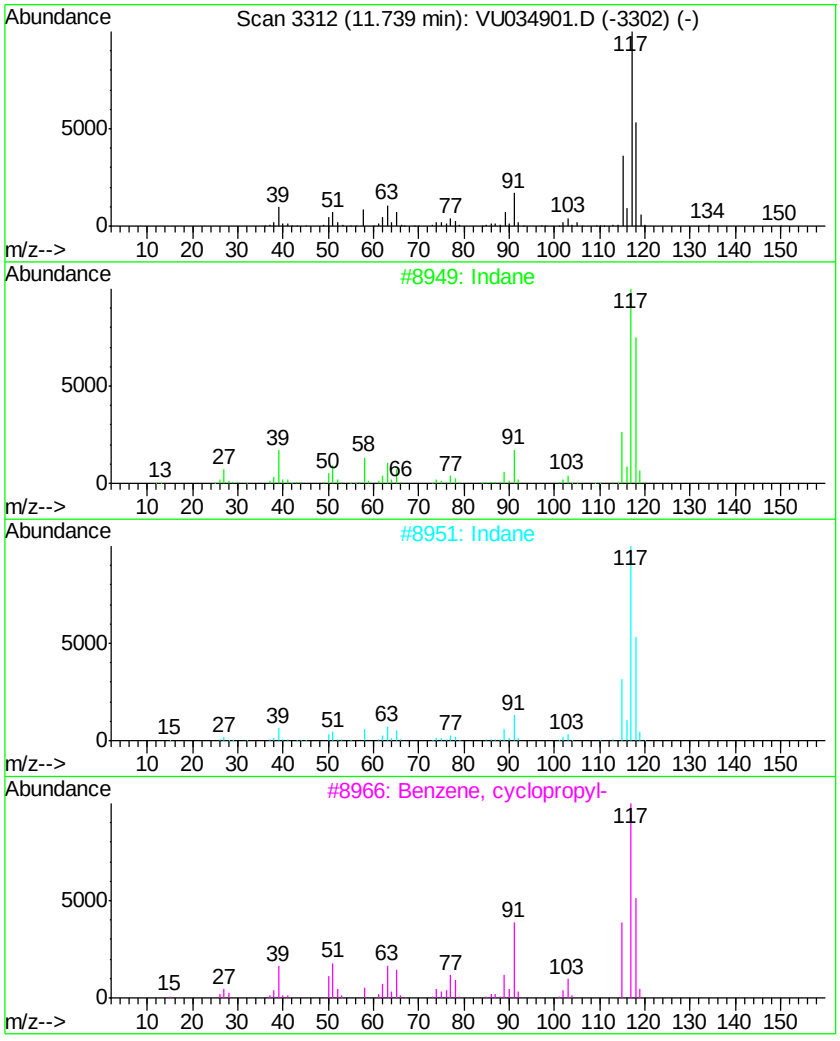
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

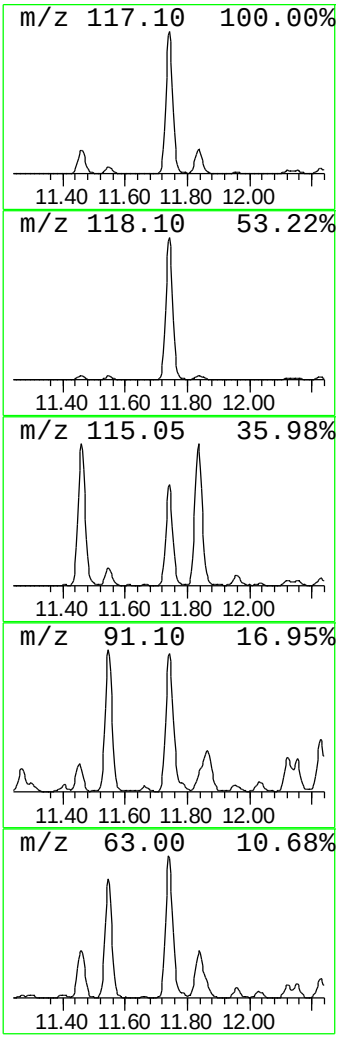
**********

Peak Number 16 Indane Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.74 | 30.34 ug/L | 683369 | 1,4-Dichlorobenzene-d4 | 11.46 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Indane | 118 | C9H10 | 000496-11-7 | 93 |
| 2 | Indane | 118 | C9H10 | 000496-11-7 | 93 |
| 3 | Benzene, cyclopropyl- | 118 | C9H10 | 000873-49-4 | 90 |
| 4 | Indane | 118 | C9H10 | 000496-11-7 | 90 |
| 5 | Benzene, 2-propenyl- | 118 | C9H10 | 000300-57-2 | 81 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU100219\
Data File : VU034901.D
Acq On : 01 Oct 2019 20:30
Operator : JC/SP
Sample : K5028-09
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BFDK8

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM100119WMA.M
Quant Title : VOC Analysis

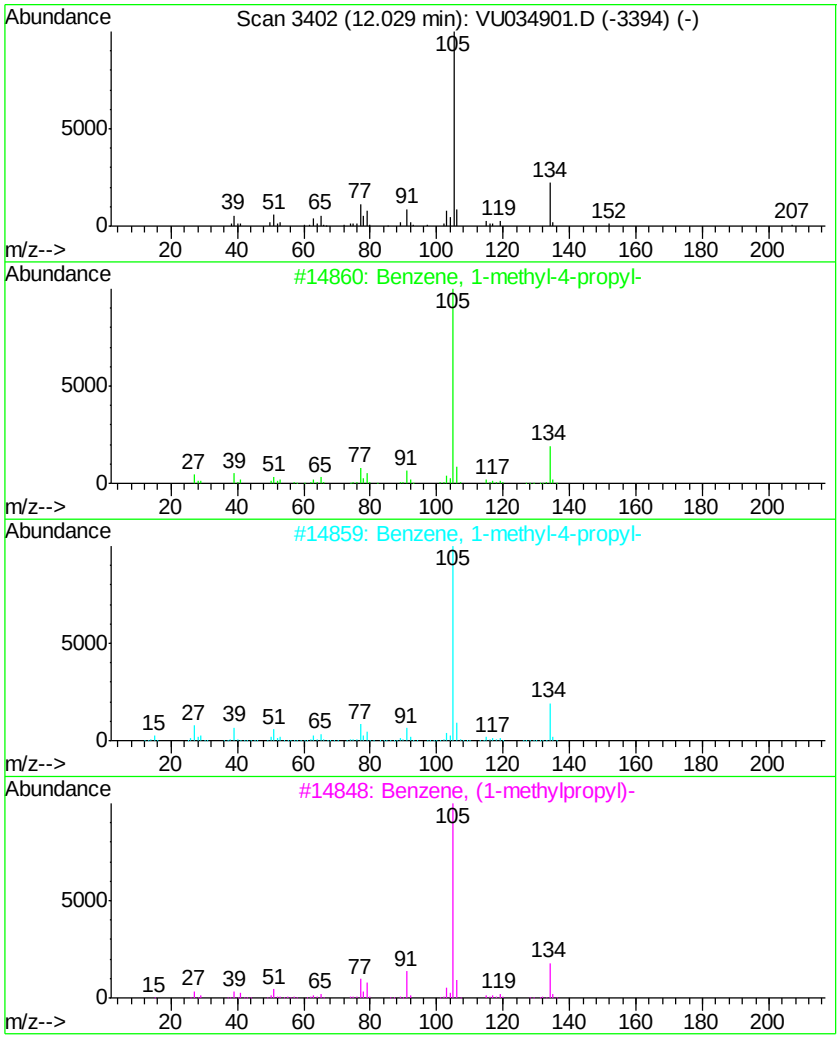
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

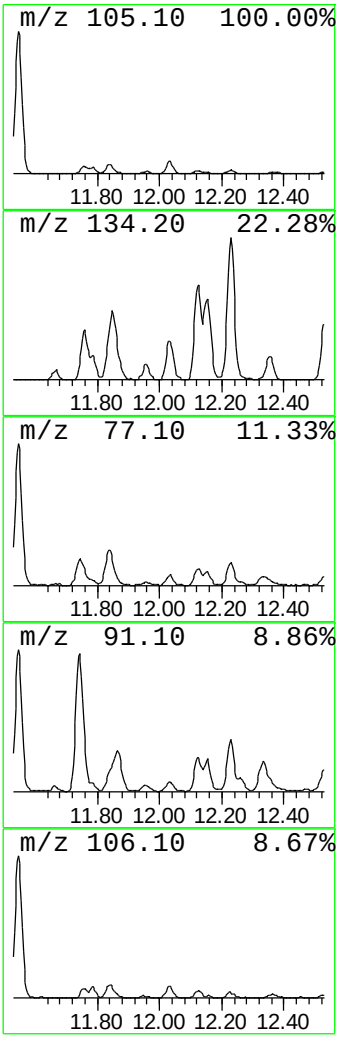
**********

Peak Number 17 Benzene, 1-methyl-4-propyl- Concentration Rank 30

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.03 | 2.94 ug/L | 66200 | 1,4-Dichlorobenzene-d4 | 11.46 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-methyl-4-propyl- | 134 | C10H14 | 001074-55-1 | 91 |
| 2 | Benzene, 1-methyl-4-propyl- | 134 | C10H14 | 001074-55-1 | 91 |
| 3 | Benzene, (1-methylpropyl)- | 134 | C10H14 | 000135-98-8 | 91 |
| 4 | Oxirane, 2-methyl-2-phenyl- | 134 | C9H10O | 002085-88-3 | 90 |
| 5 | Benzene, 1-methyl-2-propyl- | 134 | C10H14 | 001074-17-5 | 90 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU100219\
Data File : VU034901.D
Acq On : 01 Oct 2019 20:30
Operator : JC/SP
Sample : K5028-09
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BFDK8

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM100119WMA.M
Quant Title : VOC Analysis

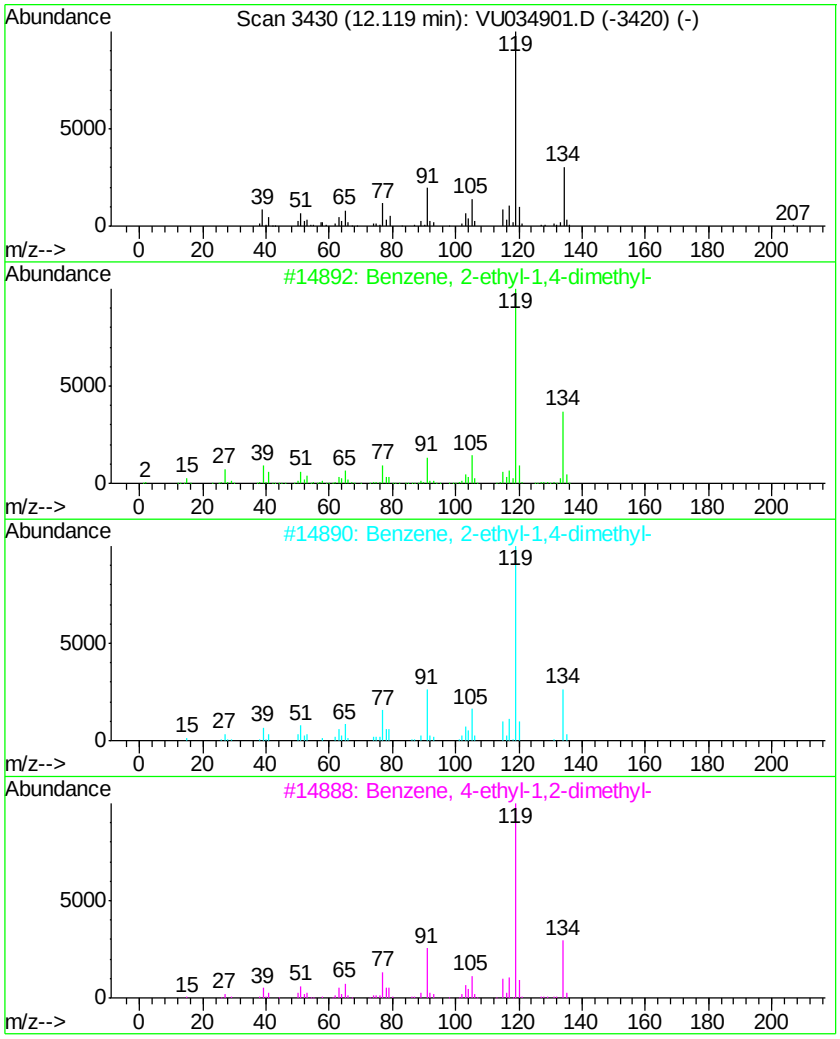
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

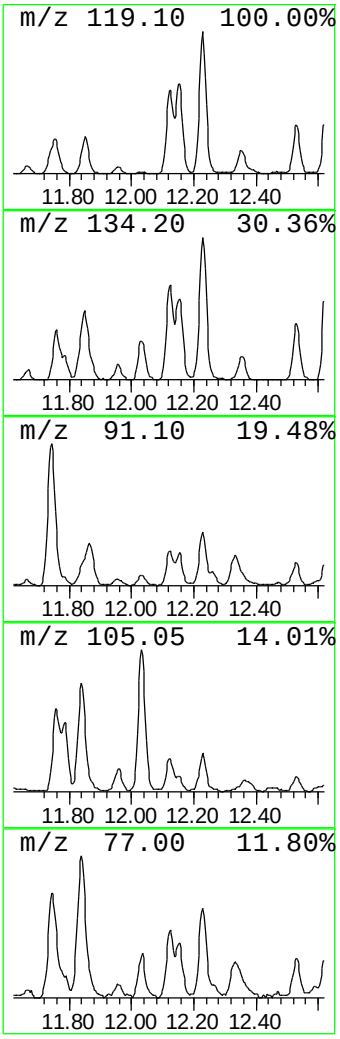
**********

Peak Number 18 Benzene, 2-ethyl-1,4-dimethyl- Concentration Rank 23

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.12 | 5.64 ug/L | 127053 | 1,4-Dichlorobenzene-d4 | 11.46 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14 | 001758-88-9 | 96 |
| 2 | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14 | 001758-88-9 | 96 |
| 3 | Benzene, 4-ethyl-1,2-dimethyl- | 134 | C10H14 | 000934-80-5 | 96 |
| 4 | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14 | 001758-88-9 | 95 |
| 5 | p-Cymene | 134 | C10H14 | 000099-87-6 | 95 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU100219\
Data File : VU034901.D
Acq On : 01 Oct 2019 20:30
Operator : JC/SP
Sample : K5028-09
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BFDK8

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM100119WMA.M
Quant Title : VOC Analysis

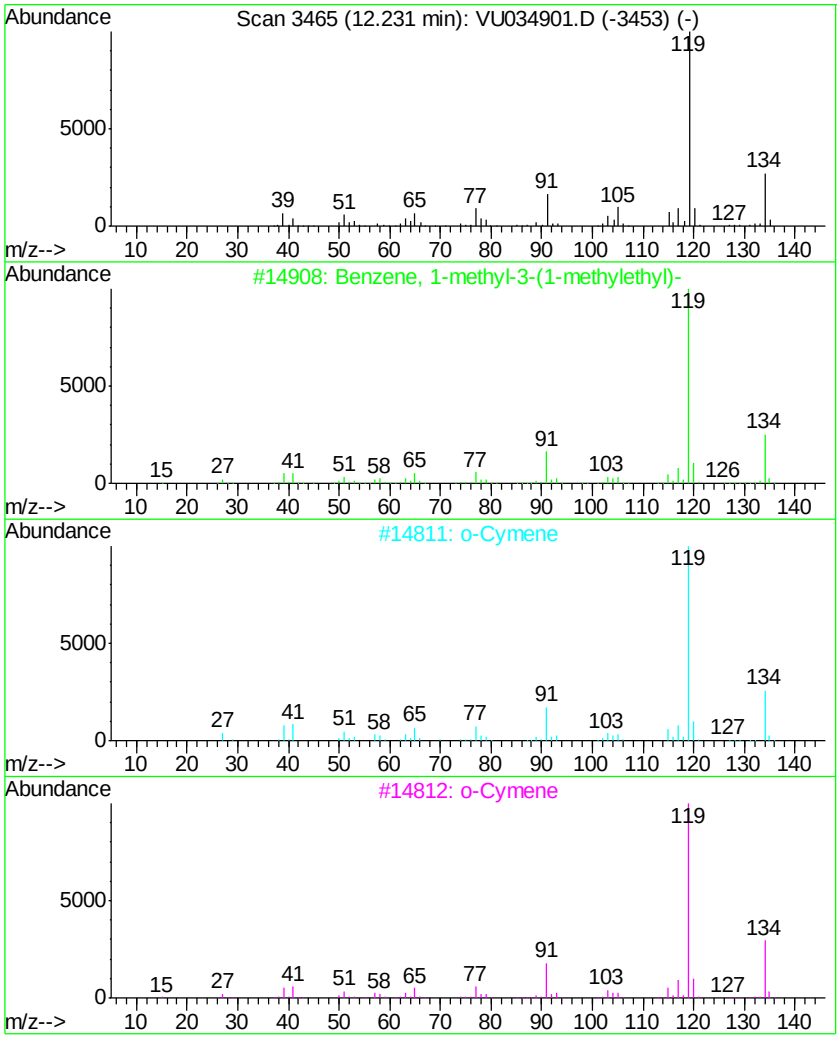
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

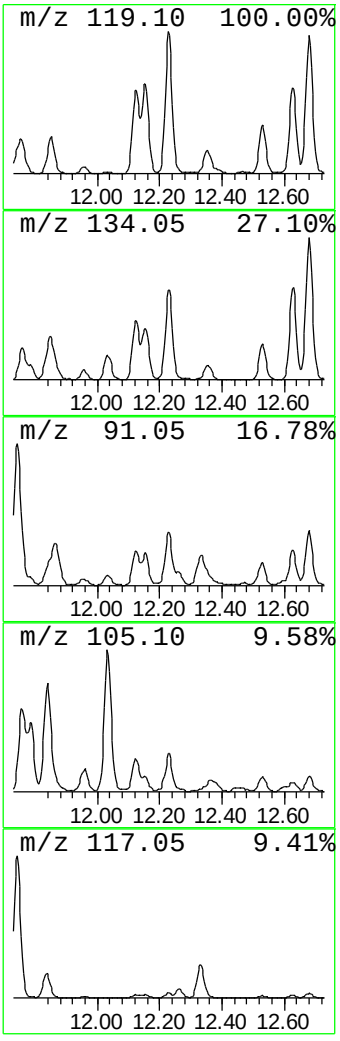
**********

Peak Number 20 Benzene, 1-methyl-3-(1-meth... Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.23 | 8.74 ug/L | 196888 | 1,4-Dichlorobenzene-d4 | 11.46 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-methyl-3-(1-methyleth... | 134 | C10H14 | 000535-77-3 | 95 |
| 2 | o-Cymene | 134 | C10H14 | 000527-84-4 | 95 |
| 3 | o-Cymene | 134 | C10H14 | 000527-84-4 | 95 |
| 4 | p-Cymene | 134 | C10H14 | 000099-87-6 | 95 |
| 5 | o-Cymene | 134 | C10H14 | 000527-84-4 | 95 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU100219\
Data File : VU034901.D
Acq On : 01 Oct 2019 20:30
Operator : JC/SP
Sample : K5028-09
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BFDK8

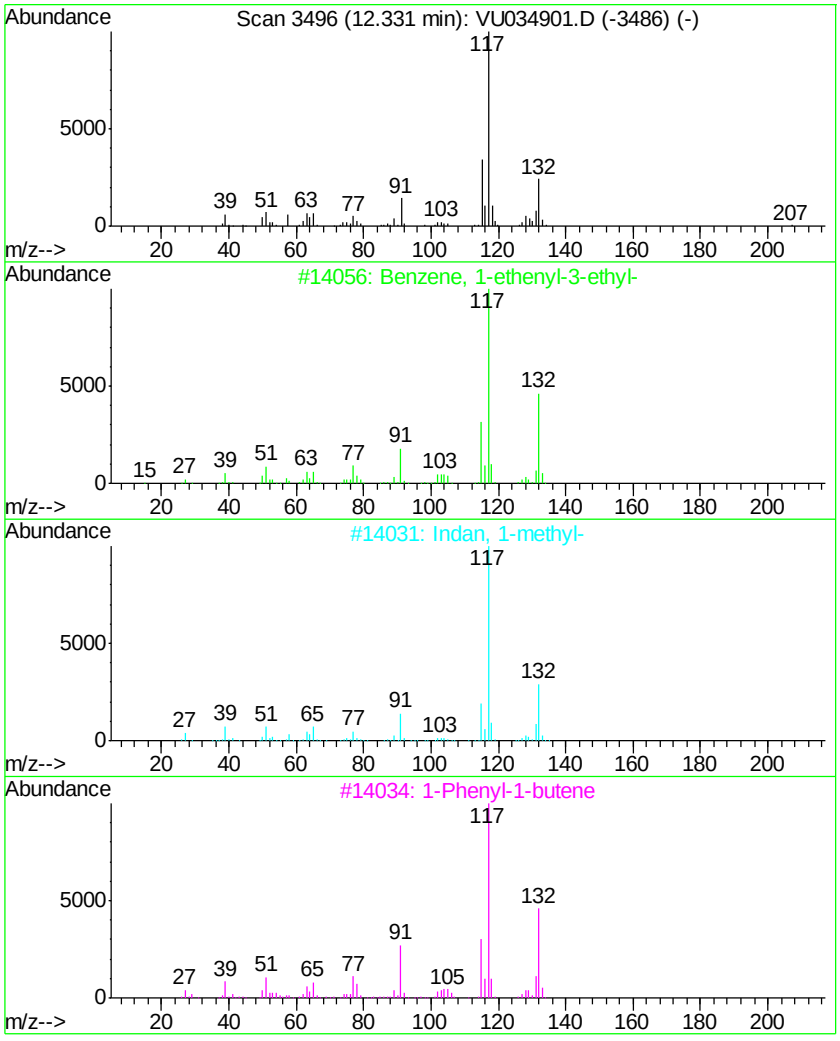
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM100119WMA.M
Quant Title : VOC Analysis

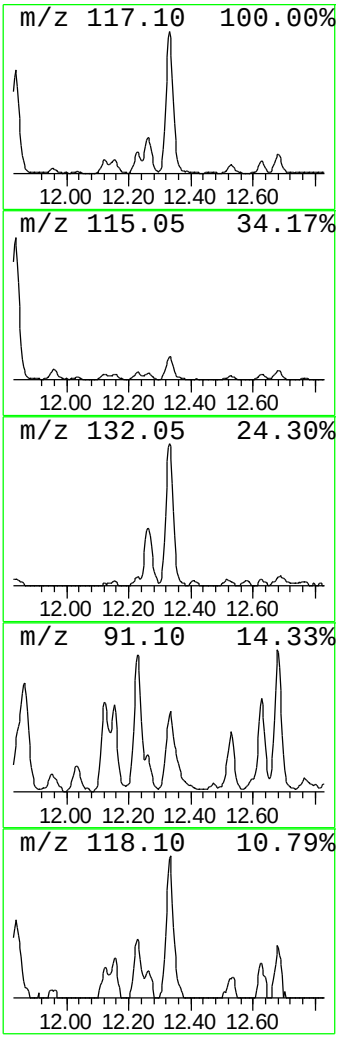
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 21 Benzene, 1-ethenyl-3-ethyl- Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.33 | 8.57 ug/L | 192956 | 1,4-Dichlorobenzene-d4 | 11.46 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-ethenyl-3-ethyl- | 132 | C10H12 | 007525-62-4 | 91 |
| 2 | Indan, 1-methyl- | 132 | C10H12 | 000767-58-8 | 90 |
| 3 | 1-Phenyl-1-butene | 132 | C10H12 | 000824-90-8 | 87 |
| 4 | 1H-Indene, 2,3-dihydro-2-methyl- | 132 | C10H12 | 000824-63-5 | 86 |
| 5 | Benzene, 2-butenyl- | 132 | C10H12 | 001560-06-1 | 86 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU100219\
Data File : VU034901.D
Acq On : 01 Oct 2019 20:30
Operator : JC/SP
Sample : K5028-09
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BFDK8

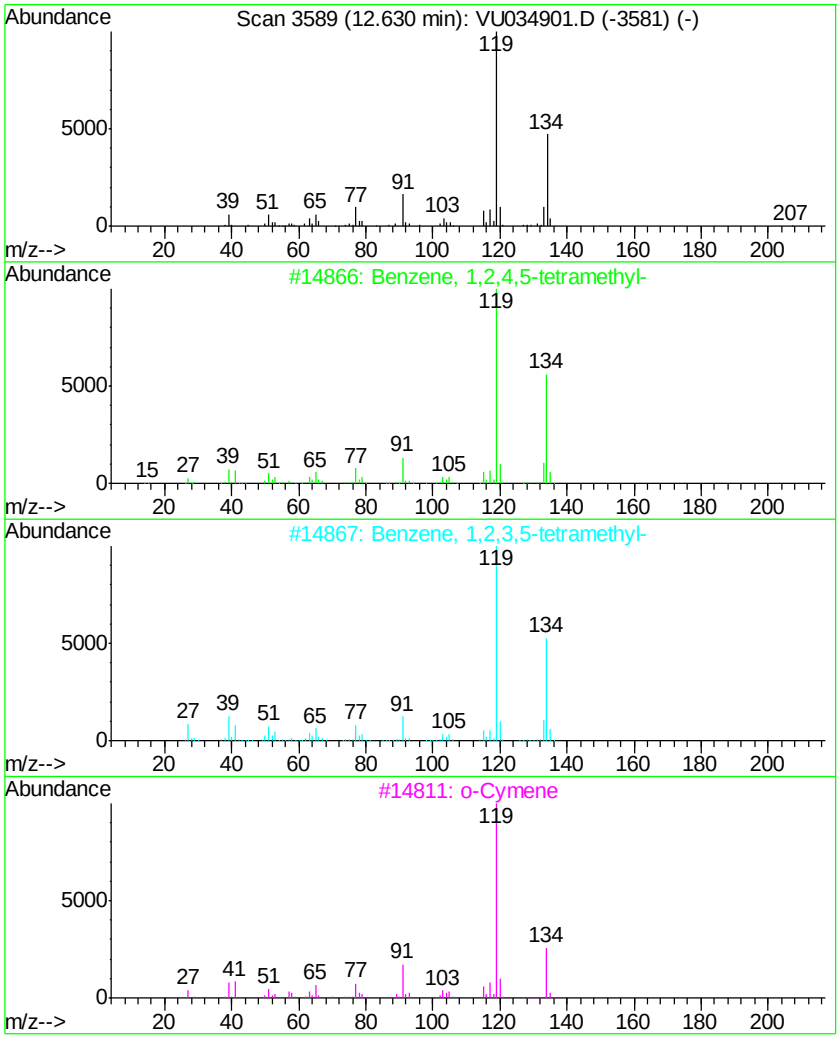
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM100119WMA.M
Quant Title : VOC Analysis

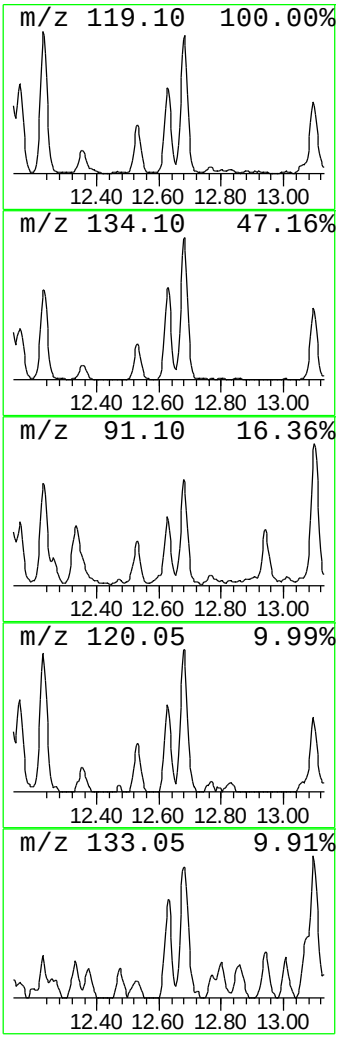
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 23 Benzene, 1,2,4,5-tetramethyl- Concentration Rank 21

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.63 | 5.98 ug/L | 134760 | 1,4-Dichlorobenzene-d4 | 11.46 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1,2,4,5-tetramethyl- | 134 | C10H14 | 000095-93-2 | 95 |
| 2 | Benzene, 1,2,3,5-tetramethyl- | 134 | C10H14 | 000527-53-7 | 95 |
| 3 | o-Cymene | 134 | C10H14 | 000527-84-4 | 95 |
| 4 | Benzene, 1,2,3,5-tetramethyl- | 134 | C10H14 | 000527-53-7 | 95 |
| 5 | Benzene, 1,2,3,4-tetramethyl- | 134 | C10H14 | 000488-23-3 | 94 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU100219\
Data File : VU034901.D
Acq On : 01 Oct 2019 20:30
Operator : JC/SP
Sample : K5028-09
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BFDK8

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM100119WMA.M
Quant Title : VOC Analysis

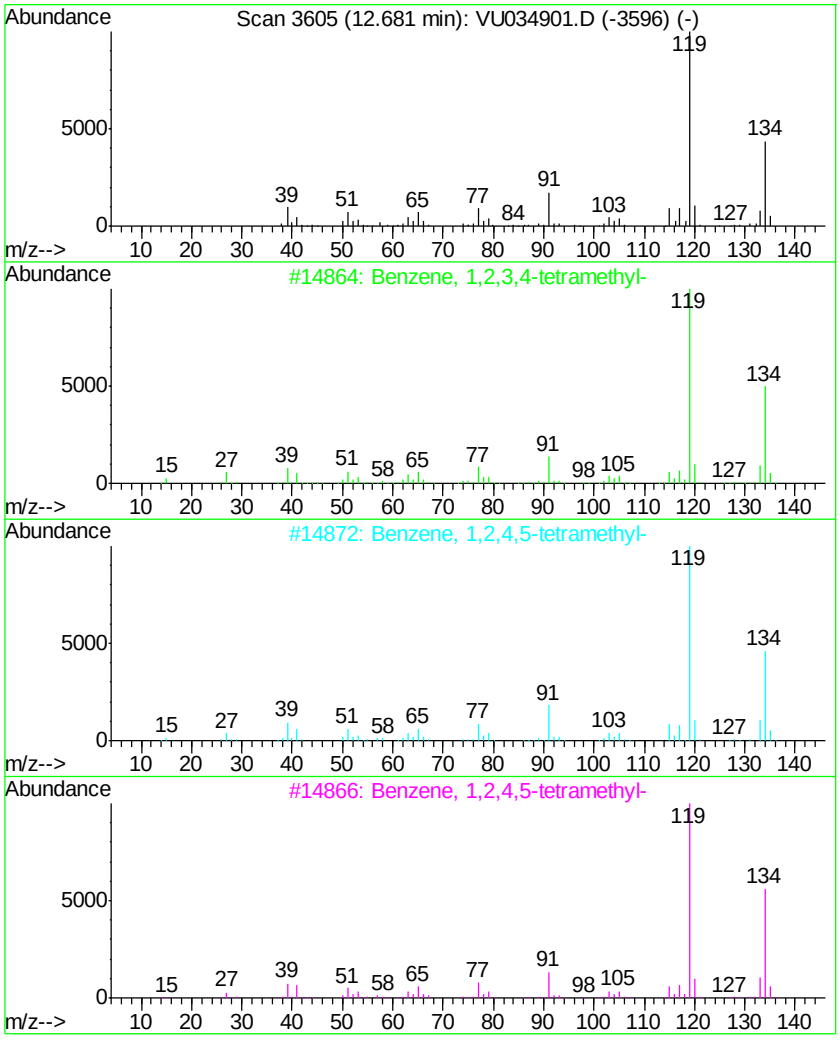
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

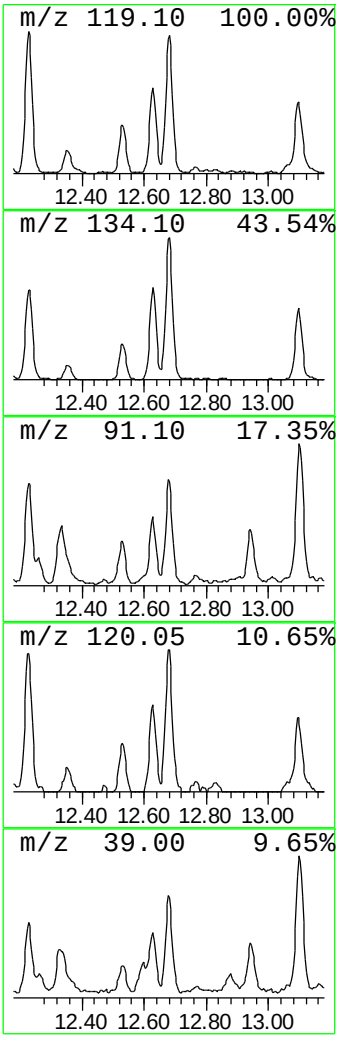
**********

Peak Number 24 Benzene, 1,2,3,4-tetramethyl- Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.68 | 9.30 ug/L | 209490 | 1,4-Dichlorobenzene-d4 | 11.46 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1,2,3,4-tetramethyl- | 134 | C10H14 | 000488-23-3 | 97 |
| 2 | Benzene, 1,2,4,5-tetramethyl- | 134 | C10H14 | 000095-93-2 | 97 |
| 3 | Benzene, 1,2,4,5-tetramethyl- | 134 | C10H14 | 000095-93-2 | 95 |
| 4 | Benzene, 1-ethyl-2,4-dimethyl- | 134 | C10H14 | 000874-41-9 | 95 |
| 5 | o-Cymene | 134 | C10H14 | 000527-84-4 | 95 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU100219\
Data File : VU034901.D
Acq On : 01 Oct 2019 20:30
Operator : JC/SP
Sample : K5028-09
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BFDK8

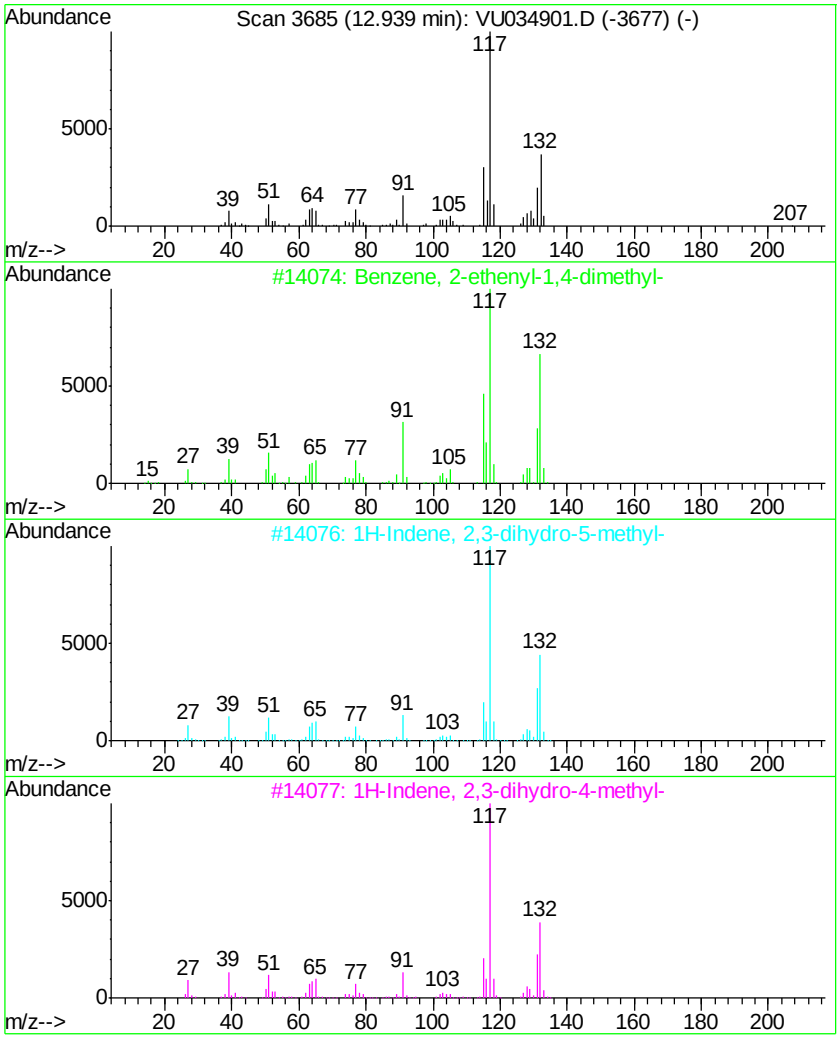
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM100119WMA.M
Quant Title : VOC Analysis

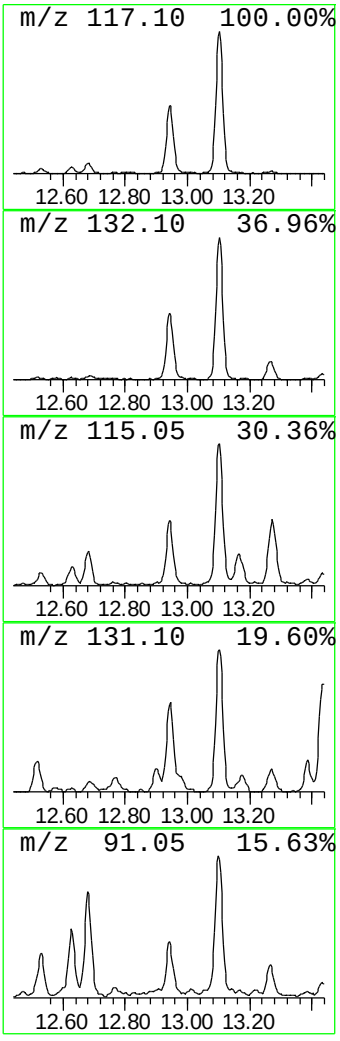
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 25 Benzene, 2-ethenyl-1,4-dime... Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.94 | 6.60 ug/L | 148558 | 1,4-Dichlorobenzene-d4 | 11.46 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 2-ethenyl-1,4-dimethyl- | 132 | C10H12 | 002039-89-6 | 96 |
| 2 | 1H-Indene, 2,3-dihydro-5-methyl- | 132 | C10H12 | 000874-35-1 | 90 |
| 3 | 1H-Indene, 2,3-dihydro-4-methyl- | 132 | C10H12 | 000824-22-6 | 90 |
| 4 | Indan, 1-methyl- | 132 | C10H12 | 000767-58-8 | 83 |
| 5 | Benzene, (2-methyl-1-propenyl)- | 132 | C10H12 | 000768-49-0 | 80 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU100219\
Data File : VU034901.D
Acq On : 01 Oct 2019 20:30
Operator : JC/SP
Sample : K5028-09
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BFDK8

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM100119WMA.M
Quant Title : VOC Analysis

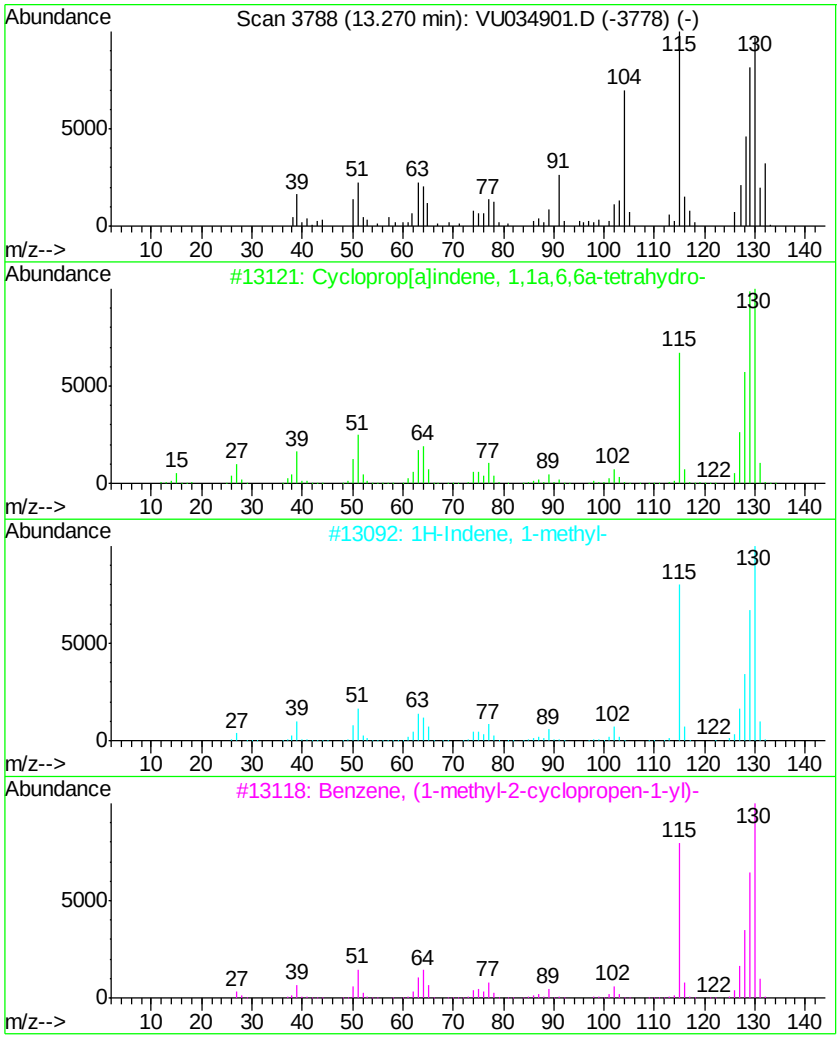
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

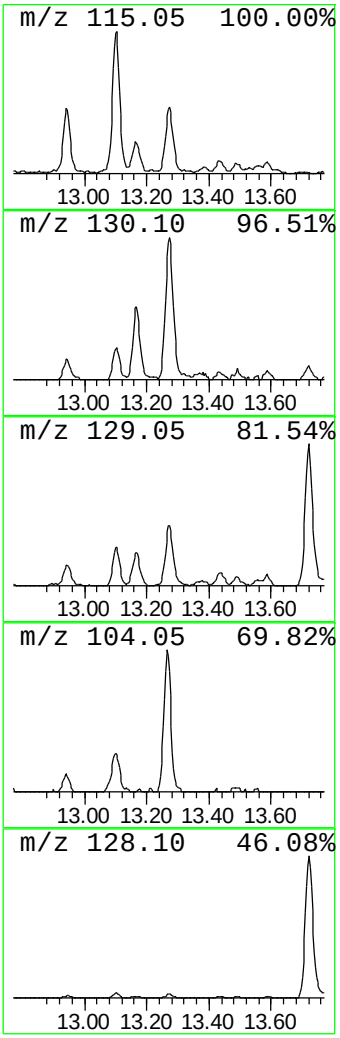
**********

Peak Number 27 Cycloprop[a]indene, 1,1a,6,... Concentration Rank 25

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.27 | 4.93 ug/L | 111129 | 1,4-Dichlorobenzene-d4 | 11.46 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cycloprop[a]indene, 1,1a,6,6a-te... | 130 | C10H10 | 015677-15-3 | 93 |
| 2 | 1H-Indene, 1-methyl- | 130 | C10H10 | 000767-59-9 | 86 |
| 3 | Benzene, (1-methyl-2-cyclopropen... | 130 | C10H10 | 065051-83-4 | 86 |
| 4 | 2-Methylindene | 130 | C10H10 | 002177-47-1 | 86 |
| 5 | 1H-Indene, 3-methyl- | 130 | C10H10 | 000767-60-2 | 83 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU100219\
Data File : VU034901.D
Acq On : 01 Oct 2019 20:30
Operator : JC/SP
Sample : K5028-09
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BFDK8

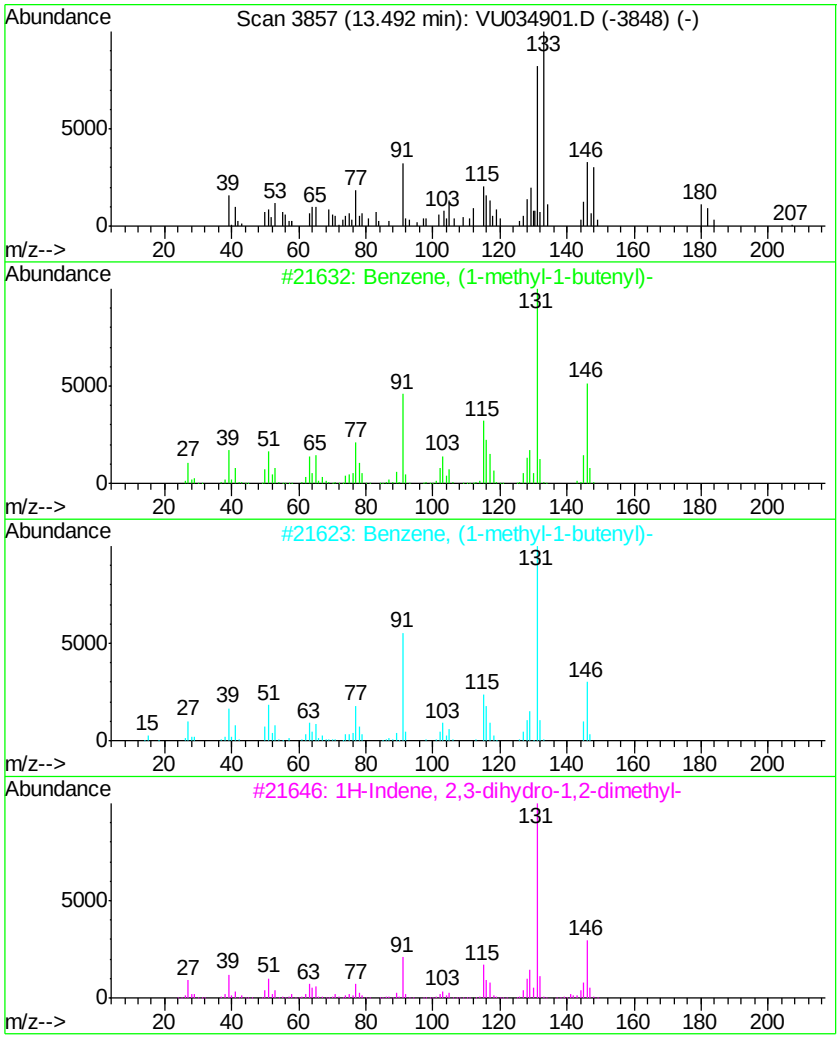
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM100119WMA.M
Quant Title : VOC Analysis

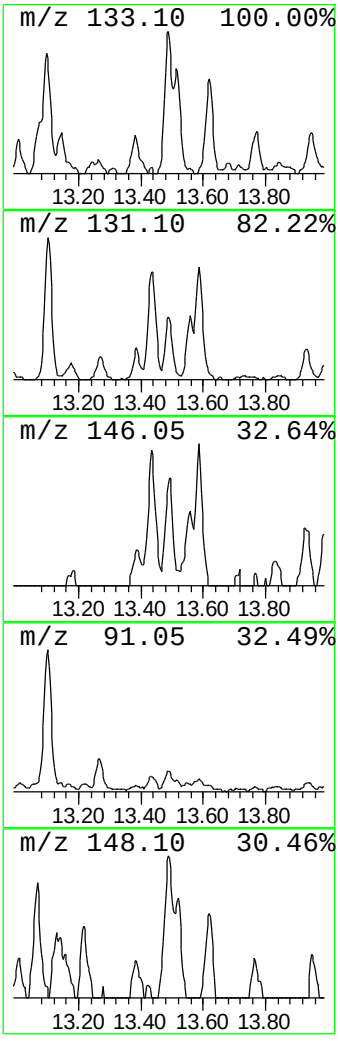
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 28 Benzene, (1-methyl-1-butenyl)- Concentration Rank 31

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.49 | 2.67 ug/L | 60196 | 1,4-Dichlorobenzene-d4 | 11.46 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, (1-methyl-1-butenyl)- | 146 | C11H14 | 053172-84-2 | 95 |
| 2 | Benzene, (1-methyl-1-butenyl)- | 146 | C11H14 | 053172-84-2 | 90 |
| 3 | 1H-Indene, 2,3-dihydro-1,2-dimet... | 146 | C11H14 | 017057-82-8 | 89 |
| 4 | 1,3-Cyclopentadiene, 5-(trans-2-... | 146 | C11H14 | 079209-36-2 | 64 |
| 5 | 1H-Indene, 2,3-dihydro-4,7-dimet... | 146 | C11H14 | 006682-71-9 | 50 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU100219\
Data File : VU034901.D
Acq On : 01 Oct 2019 20:30
Operator : JC/SP
Sample : K5028-09
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BFDK8

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM100119WMA.M
Quant Title : VOC Analysis

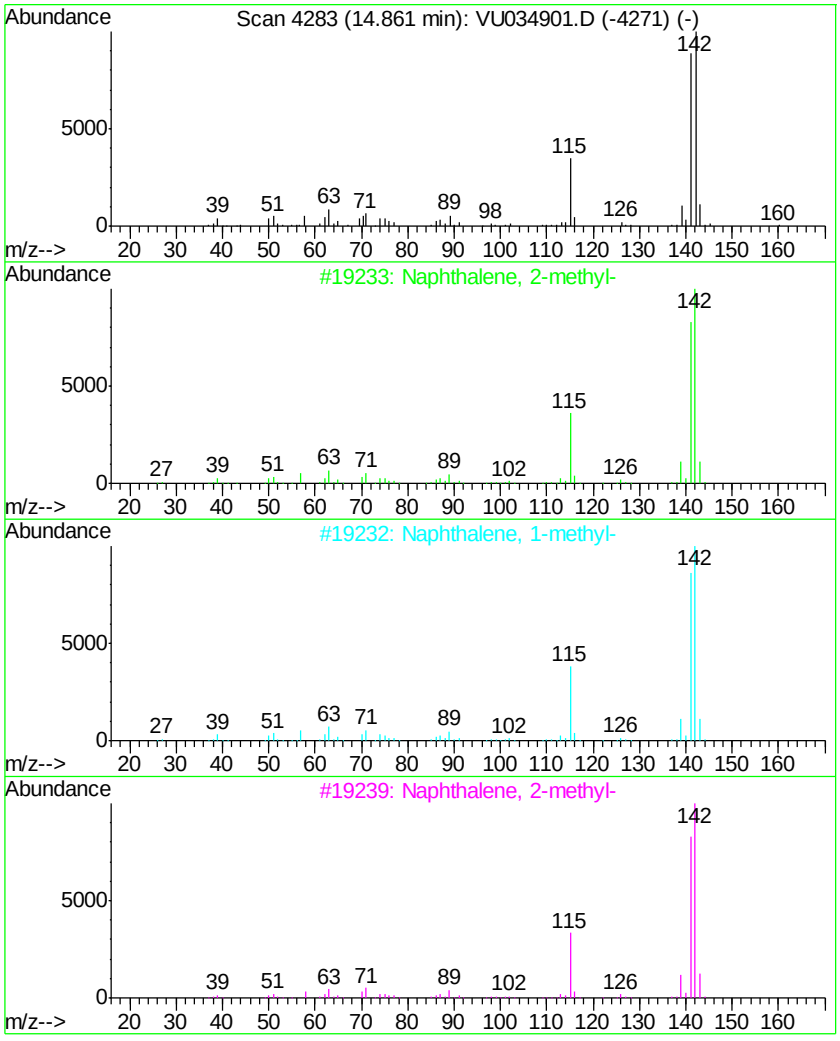
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

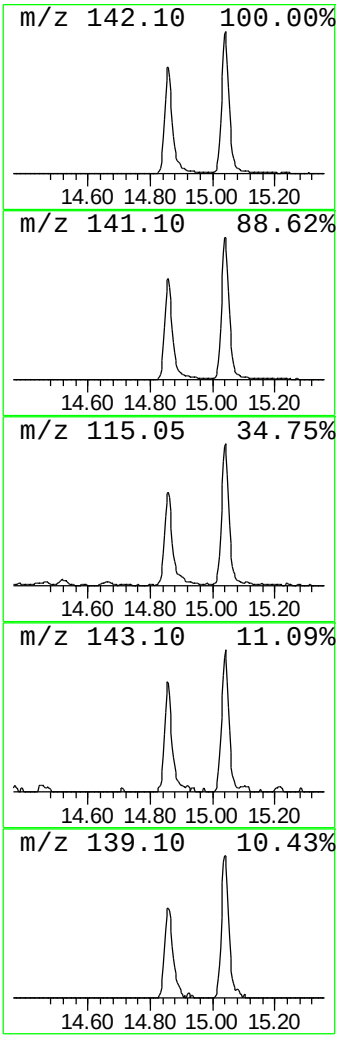
**********

Peak Number 30 Naphthalene, 1-methyl- Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.86 | 9.05 ug/L | 203784 | 1,4-Dichlorobenzene-d4 | 11.46 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2-methyl- | 142 | C11H10 | 000091-57-6 | 96 |
| 2 | Naphthalene, 1-methyl- | 142 | C11H10 | 000090-12-0 | 96 |
| 3 | Naphthalene, 2-methyl- | 142 | C11H10 | 000091-57-6 | 94 |
| 4 | Naphthalene, 2-methyl- | 142 | C11H10 | 000091-57-6 | 93 |
| 5 | 1,4-Methanonaphthalene, 1,4-dihy... | 142 | C11H10 | 004453-90-1 | 93 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU100219\
Data File : VU034901.D
Acq On : 01 Oct 2019 20:30
Operator : JC/SP
Sample : K5028-09
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BFDK8

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM100119WMA.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 |
| Isopropyl acetate | 5.53 | 5.8 | ug/L | 116961 | 1 | 5.86 | 1010620 | 50.0 |
| n-Propyl acetate | 6.68 | 109.6 | ug/L | 2214960 | 1 | 5.86 | 1010620 | 50.0 |
| Propanoic acid, 1... | 7.40 | 13.0 | ug/L | 263586 | 1 | 5.86 | 1010620 | 50.0 |
| Propanoic acid, 2... | 8.13 | 15.4 | ug/L | 393241 | 2 | 9.07 | 1275100 | 50.0 |
| Propanoic acid, p... | 8.40 | 28.3 | ug/L | 721592 | 2 | 9.07 | 1275100 | 50.0 |
| Butanoic acid, 1-... | 8.88 | 30.3 | ug/L | 772152 | 2 | 9.07 | 1275100 | 50.0 |
| Benzene, propyl- | 10.57 | 9.5 | ug/L | 213257 | 3 | 11.46 | 1126080 | 50.0 |
| Benzene, 1-ethyl-... | 10.68 | 15.1 | ug/L | 339994 | 3 | 11.46 | 1126080 | 50.0 |
| Benzene, 1,2,3-tr... | 11.13 | 79.9 | ug/L | 1799960 | 3 | 11.46 | 1126080 | 50.0 |
| 2-Heptanone, 4,6-... | 11.22 | 3.5 | ug/L | 79229 | 3 | 11.46 | 1126080 | 50.0 |
| Benzene, 1,2,4-tr... | 11.55 | 38.1 | ug/L | 858897 | 3 | 11.46 | 1126080 | 50.0 |
| Indane | 11.74 | 30.3 | ug/L | 683369 | 3 | 11.46 | 1126080 | 50.0 |
| Benzene, 1-methyl... | 12.03 | 2.9 | ug/L | 66200 | 3 | 11.46 | 1126080 | 50.0 |
| Benzene, 2-ethyl-... | 12.12 | 5.6 | ug/L | 127053 | 3 | 11.46 | 1126080 | 50.0 |
| Benzene, 1-methyl... | 12.23 | 8.7 | ug/L | 196888 | 3 | 11.46 | 1126080 | 50.0 |
| Benzene, 1-etheny... | 12.33 | 8.6 | ug/L | 192956 | 3 | 11.46 | 1126080 | 50.0 |
| Benzene, 1,2,4,5-... | 12.63 | 6.0 | ug/L | 134760 | 3 | 11.46 | 1126080 | 50.0 |
| Benzene, 1,2,3,4-... | 12.68 | 9.3 | ug/L | 209490 | 3 | 11.46 | 1126080 | 50.0 |
| Benzene, 2-etheny... | 12.94 | 6.6 | ug/L | 148558 | 3 | 11.46 | 1126080 | 50.0 |
| Cycloprop[a]inden... | 13.27 | 4.9 | ug/L | 111129 | 3 | 11.46 | 1126080 | 50.0 |
| Benzene, (1-methy... | 13.49 | 2.7 | ug/L | 60196 | 3 | 11.46 | 1126080 | 50.0 |
| Naphthalene, 1-me... | 14.86 | 9.1 | ug/L | 203784 | 3 | 11.46 | 1126080 | 50.0 |