LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU042019\
Data File : VU031357.D
Acq On : 19 Apr 2019 14:28
Operator : JC/SP
Sample : K2402-05 5X
Misc : 5.04g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAHH7

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\SOMULM041719WMA.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 | 1.395 | 87 | 95 | 108 | rVB | 240085 | 264597 | 0.14% | 0.053% |
| 2 | 1.678 | 175 | 183 | 196 | rBV | 203185 | 264699 | 0.14% | 0.053% |
| 3 | 2.264 | 354 | 365 | 379 | rBV | 420450 | 643980 | 0.33% | 0.130% |
| 4 | 2.736 | 505 | 512 | 523 | rVV | 51442 | 99221 | 0.05% | 0.020% |
| 5 | 4.087 | 916 | 932 | 951 | rVB5 | 51732 | 139662 | 0.07% | 0.028% |
| 6 | 4.199 | 951 | 967 | 1012 | rBV | 120413 | 509982 | 0.26% | 0.103% |
| 7 | 4.643 | 1081 | 1105 | 1126 | rBV | 312026 | 756777 | 0.39% | 0.153% |
| 8 | 4.987 | 1196 | 1212 | 1226 | rBV4 | 49041 | 121955 | 0.06% | 0.025% |
| 9 | 5.334 | 1299 | 1320 | 1353 | rBV2 | 629171 | 1998361 | 1.03% | 0.403% |
| 10 | 5.537 | 1371 | 1383 | 1397 | rVV4 | 34737 | 97165 | 0.05% | 0.020% |
| 11 | 5.884 | 1477 | 1491 | 1533 | rBV | 602365 | 1300770 | 0.67% | 0.263% |
| 12 | 6.328 | 1615 | 1629 | 1644 | rBV | 323798 | 672487 | 0.35% | 0.136% |
| 13 | 6.411 | 1646 | 1655 | 1666 | rVV5 | 46022 | 102120 | 0.05% | 0.021% |
| 14 | 7.228 | 1897 | 1909 | 1937 | rVV2 | 171693 | 336189 | 0.17% | 0.068% |
| 15 | 7.562 | 1986 | 2013 | 2028 | rBV | 610425 | 1152944 | 0.60% | 0.233% |
| 16 | 7.636 | 2029 | 2036 | 2053 | rVB | 73131 | 145840 | 0.08% | 0.029% |
| 17 | 7.849 | 2085 | 2102 | 2117 | rBV | 121783 | 233065 | 0.12% | 0.047% |
| 18 | 8.321 | 2232 | 2249 | 2287 | rBV | 426251 | 909905 | 0.47% | 0.184% |
| 19 | 9.086 | 2476 | 2487 | 2510 | rBV | 722243 | 1269512 | 0.66% | 0.256% |
| 20 | 9.250 | 2527 | 2538 | 2562 | rBV | 106693 | 205124 | 0.11% | 0.041% |
| 21 | 9.373 | 2562 | 2576 | 2592 | rBV | 2500513 | 4259091 | 2.20% | 0.860% |
| 22 | 9.778 | 2689 | 2702 | 2734 | rVB5 | 1596839 | 3149065 | 1.63% | 0.636% |
| 23 | 10.430 | 2894 | 2905 | 2917 | rBV | 490528 | 808577 | 0.42% | 0.163% |
| 24 | 10.504 | 2917 | 2928 | 2943 | rVB8 | 38000 | 101099 | 0.05% | 0.020% |
| 25 | 10.585 | 2943 | 2953 | 2965 | rBV | 161454 | 266107 | 0.14% | 0.054% |
| 26 | 10.678 | 2971 | 2982 | 2998 | rBV | 788091 | 1722250 | 0.89% | 0.348% |
| 27 | 10.768 | 2998 | 3010 | 3019 | rVV | 1250375 | 2081476 | 1.08% | 0.420% |
| 28 | 10.810 | 3020 | 3023 | 3044 | rVB | 137287 | 193859 | 0.10% | 0.039% |
| 29 | 10.967 | 3062 | 3072 | 3077 | rBV | 282569 | 452826 | 0.23% | 0.091% |
| 30 | 11.144 | 3109 | 3127 | 3139 | rBV | 3846467 | 6050599 | 3.13% | 1.222% |
| 31 | 11.212 | 3139 | 3148 | 3157 | rVV | 1286458 | 1939875 | 1.00% | 0.392% |
| 32 | 11.263 | 3157 | 3164 | 3176 | rVB | 508659 | 763326 | 0.39% | 0.154% |
| 33 | 11.324 | 3177 | 3183 | 3197 | rVB8 | 60427 | 107162 | 0.06% | 0.022% |
| 34 | 11.482 | 3222 | 3232 | 3242 | rBV | 934420 | 1434439 | 0.74% | 0.290% |

LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU042019\
Data File : VU031357.D
Acq On : 19 Apr 2019 14:28
Operator : JC/SP
Sample : K2402-05 5X
Misc : 5.04g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAHH7

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\SOMULM041719WMA.M
Title : VOC Analysis

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 11.569 | 3249 | 3259 | 3268 | rBV | 1262895 | 1883005 | 0.97% | 0.380% |
| 36 | 11.623 | 3268 | 3276 | 3293 | rVB | 924333 | 1395364 | 0.72% | 0.282% |
| 37 | 11.762 | 3308 | 3319 | 3328 | rBV2 | 704482 | 1238273 | 0.64% | 0.250% |
| 38 | 11.807 | 3329 | 3333 | 3340 | rVB | 197046 | 236036 | 0.12% | 0.048% |
| 39 | 11.861 | 3340 | 3350 | 3365 | rVB4 | 997197 | 1948876 | 1.01% | 0.393% |
| 40 | 11.977 | 3374 | 3386 | 3398 | rBV | 12736389 | 19539380 | 10.10% | 3.945% |
| 41 | 12.144 | 3429 | 3438 | 3441 | rBV | 217868 | 299410 | 0.15% | 0.060% |
| 42 | 12.244 | 3454 | 3469 | 3477 | rBV3 | 376270 | 827966 | 0.43% | 0.167% |
| 43 | 12.299 | 3477 | 3486 | 3497 | rVB3 | 157751 | 355878 | 0.18% | 0.072% |
| 44 | 12.353 | 3497 | 3503 | 3514 | rBV5 | 61190 | 109768 | 0.06% | 0.022% |
| 45 | 12.424 | 3515 | 3525 | 3535 | rVB | 708526 | 1095714 | 0.57% | 0.221% |
| 46 | 12.482 | 3535 | 3543 | 3556 | rBV3 | 184530 | 301800 | 0.16% | 0.061% |
| 47 | 12.549 | 3557 | 3564 | 3572 | rVB | 72820 | 98197 | 0.05% | 0.020% |
| 48 | 12.604 | 3573 | 3581 | 3586 | rBV7 | 57062 | 96938 | 0.05% | 0.020% |
| 49 | 12.646 | 3586 | 3594 | 3602 | rVB | 354143 | 495413 | 0.26% | 0.100% |
| 50 | 12.700 | 3602 | 3611 | 3624 | rBV | 968948 | 1643889 | 0.85% | 0.332% |
| 51 | 12.823 | 3640 | 3649 | 3660 | rBV2 | 576968 | 1101561 | 0.57% | 0.222% |
| 52 | 12.961 | 3683 | 3692 | 3706 | rVB2 | 343877 | 511136 | 0.26% | 0.103% |
| 53 | 13.028 | 3706 | 3713 | 3722 | rBV3 | 66872 | 112072 | 0.06% | 0.023% |
| 54 | 13.083 | 3722 | 3730 | 3732 | rBV2 | 156004 | 191664 | 0.10% | 0.039% |
| 55 | 13.118 | 3732 | 3741 | 3750 | rVV2 | 1361858 | 2220396 | 1.15% | 0.448% |
| 56 | 13.183 | 3750 | 3761 | 3773 | rVB | 4424700 | 6702062 | 3.46% | 1.353% |
| 57 | 13.289 | 3782 | 3794 | 3811 | rVB | 5062060 | 8196989 | 4.24% | 1.655% |
| 58 | 13.385 | 3813 | 3824 | 3839 | rVB2 | 717605 | 1280787 | 0.66% | 0.259% |
| 59 | 13.511 | 3855 | 3863 | 3870 | rBV4 | 116715 | 189806 | 0.10% | 0.038% |
| 60 | 13.639 | 3891 | 3903 | 3911 | rBV2 | 112706 | 226940 | 0.12% | 0.046% |
| 61 | 13.762 | 3920 | 3941 | 3961 | rBV3 | 96632907 | 193440732 | 100.00% | 39.052% |
| 62 | 13.861 | 3962 | 3972 | 3993 | rVB | 1432048 | 2413759 | 1.25% | 0.487% |
| 63 | 14.102 | 4041 | 4047 | 4051 | rBV4 | 81782 | 93921 | 0.05% | 0.019% |
| 64 | 14.141 | 4052 | 4059 | 4065 | rBV3 | 253466 | 398389 | 0.21% | 0.080% |
| 65 | 14.176 | 4066 | 4070 | 4076 | rVB | 171223 | 210247 | 0.11% | 0.042% |
| 66 | 14.237 | 4084 | 4089 | 4096 | rVB2 | 283110 | 356169 | 0.18% | 0.072% |
| 67 | 14.279 | 4096 | 4102 | 4110 | rVB | 379491 | 532717 | 0.28% | 0.108% |
| 68 | 14.337 | 4110 | 4120 | 4128 | rBV2 | 880200 | 1563241 | 0.81% | 0.316% |
| 69 | 14.382 | 4130 | 4134 | 4142 | rVB | 391632 | 540603 | 0.28% | 0.109% |
| 70 | 14.462 | 4143 | 4159 | 4176 | rBV2 | 758668 | 1944526 | 1.01% | 0.393% |
| 71 | 14.533 | 4177 | 4181 | 4189 | rVB6 | 104729 | 147218 | 0.08% | 0.030% |

LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU042019\
Data File : VU031357.D
Acq On : 19 Apr 2019 14:28
Operator : JC/SP
Sample : K2402-05 5X
Misc : 5.04g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAHH7

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\SOMULM041719WMA.M
Title : VOC Analysis

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 14.585 | 4190 | 4197 | 4211 | rVB3 | 243375 | 400438 | 0.21% | 0.081% |
| 73 | 14.659 | 4213 | 4220 | 4223 | rBV5 | 81810 | 116698 | 0.06% | 0.024% |
| 74 | 14.729 | 4234 | 4242 | 4258 | rVB | 430323 | 808520 | 0.42% | 0.163% |
| 75 | 14.819 | 4260 | 4270 | 4276 | rBV | 482741 | 750575 | 0.39% | 0.152% |
| 76 | 14.884 | 4276 | 4290 | 4312 | rVB2 | 58043434 | 92818144 | 47.98% | 18.738% |
| 77 | 14.987 | 4313 | 4322 | 4332 | rVB | 291689 | 484280 | 0.25% | 0.098% |
| 78 | 15.064 | 4332 | 4346 | 4363 | rBV | 32316748 | 50802884 | 26.26% | 10.256% |
| 79 | 15.347 | 4427 | 4434 | 4441 | rBV3 | 67289 | 90059 | 0.05% | 0.018% |
| 80 | 15.601 | 4500 | 4513 | 4524 | rBV | 5416852 | 8343069 | 4.31% | 1.684% |
| 81 | 15.668 | 4528 | 4534 | 4544 | rVB | 327511 | 511002 | 0.26% | 0.103% |
| 82 | 15.794 | 4566 | 4573 | 4580 | rBV | 1047049 | 1453093 | 0.75% | 0.293% |
| 83 | 15.829 | 4581 | 4584 | 4596 | rVB2 | 515175 | 683587 | 0.35% | 0.138% |
| 84 | 15.909 | 4596 | 4609 | 4631 | rBV | 6101882 | 10723943 | 5.54% | 2.165% |
| 85 | 15.999 | 4633 | 4637 | 4642 | rVV2 | 81642 | 92981 | 0.05% | 0.019% |
| 86 | 16.057 | 4643 | 4655 | 4661 | rVV | 8266267 | 13234560 | 6.84% | 2.672% |
| 87 | 16.093 | 4661 | 4666 | 4679 | rVB | 4185630 | 6223833 | 3.22% | 1.256% |
| 88 | 16.186 | 4684 | 4695 | 4706 | rVB | 1172742 | 1849326 | 0.96% | 0.373% |
| 89 | 16.282 | 4707 | 4725 | 4747 | rVB | 2137833 | 5592115 | 2.89% | 1.129% |
| 90 | 16.427 | 4760 | 4770 | 4787 | rBV | 1272448 | 2089404 | 1.08% | 0.422% |
| 91 | 16.520 | 4788 | 4799 | 4818 | rVV2 | 2661958 | 4843327 | 2.50% | 0.978% |
| 92 | 16.626 | 4824 | 4832 | 4843 | rVB4 | 342501 | 588279 | 0.30% | 0.119% |
| 93 | 16.732 | 4854 | 4865 | 4882 | rVV2 | 897319 | 1726940 | 0.89% | 0.349% |
| 94 | 16.867 | 4900 | 4907 | 4914 | rVB3 | 87132 | 121424 | 0.06% | 0.025% |
| 95 | 16.967 | 4917 | 4938 | 4946 | rVV | 337629 | 759242 | 0.39% | 0.153% |
| 96 | 17.015 | 4946 | 4953 | 4978 | rVB2 | 277647 | 684842 | 0.35% | 0.138% |
| 97 | 17.163 | 4990 | 4999 | 5010 | rVB2 | 263827 | 423151 | 0.22% | 0.085% |
| 98 | 17.224 | 5010 | 5018 | 5029 | rVB2 | 113986 | 185144 | 0.10% | 0.037% |
| 99 | 17.363 | 5046 | 5061 | 5084 | rVB6 | 95439 | 323472 | 0.17% | 0.065% |
| 100 | 17.527 | 5102 | 5112 | 5124 | rBV3 | 59059 | 121800 | 0.06% | 0.025% |

Sum of corrected areas: 495341080

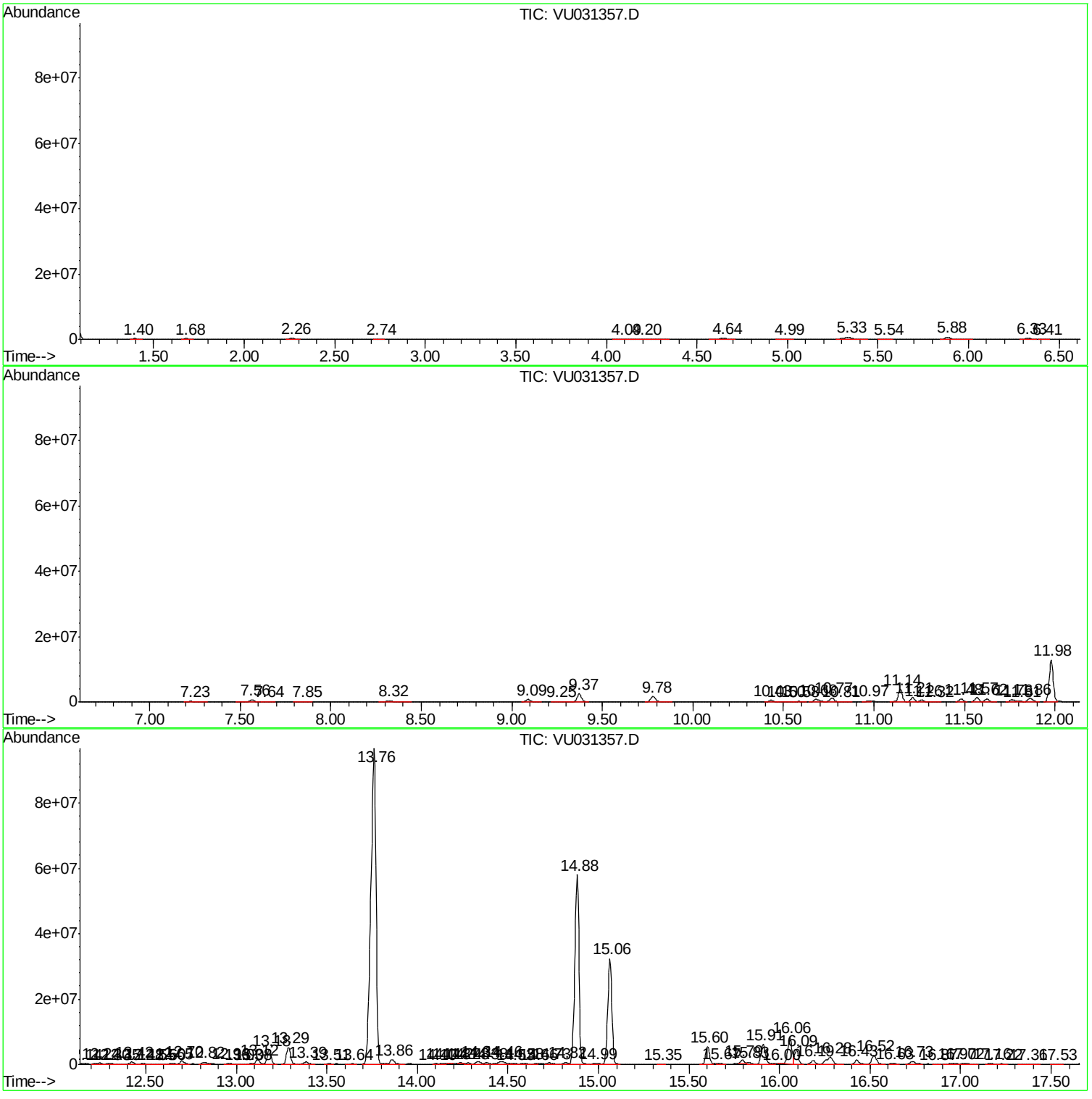
LSC Report - Integrated Chromatogram

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU042019\
Data File : VU031357.D
Acq On : 19 Apr 2019 14:28
Operator : JC/SP
Sample : K2402-05 5X
Misc : 5.04g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAHH7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM041719WMA.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\VU042019\
Data File : VU031357.D
Acq On : 19 Apr 2019 14:28
Operator : JC/SP
Sample : K2402-05 5X
Misc : 5.04g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAHH7

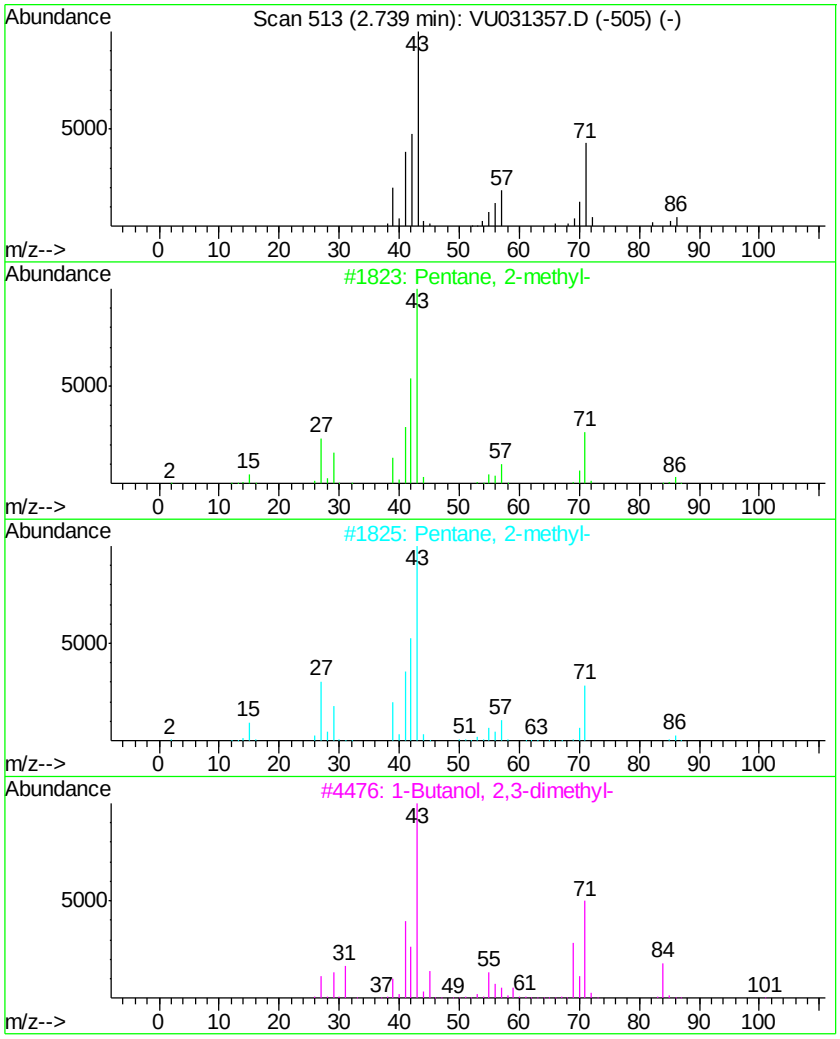
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM041719WMA.M
Quant Title : VOC Analysis

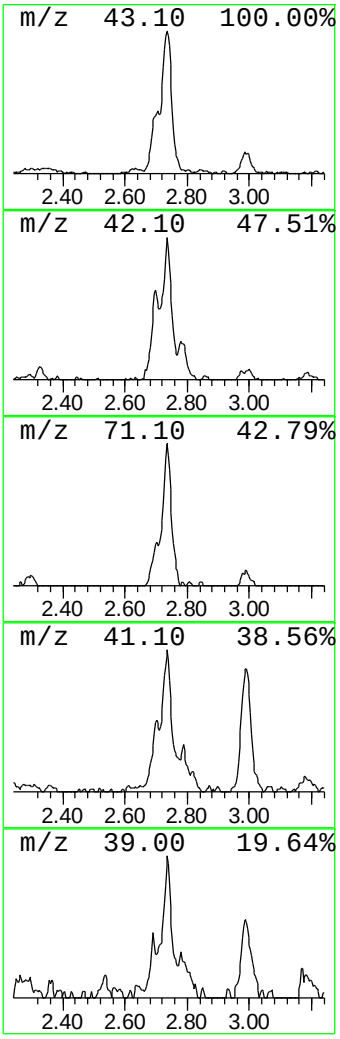
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 1 (DEL) Alkane: Straight-Chai... Concentration Rank 71

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 2.74 | 3.81 ug/L | 99221 | 1,4-Difluorobenzene | 5.88 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentane, 2-methyl- | 86 | C6H14 | 000107-83-5 | 78 |
| 2 | Pentane, 2-methyl- | 86 | C6H14 | 000107-83-5 | 78 |
| 3 | 1-Butanol, 2,3-dimethyl- | 102 | C6H14O | 019550-30-2 | 39 |
| 4 | Hexane, 2,3-dimethyl- | 114 | C8H18 | 000584-94-1 | 38 |
| 5 | Pentane | 72 | C5H12 | 000109-66-0 | 38 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU042019\
Data File : VU031357.D
Acq On : 19 Apr 2019 14:28
Operator : JC/SP
Sample : K2402-05 5X
Misc : 5.04g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAHH7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM041719WMA.M
Quant Title : VOC Analysis

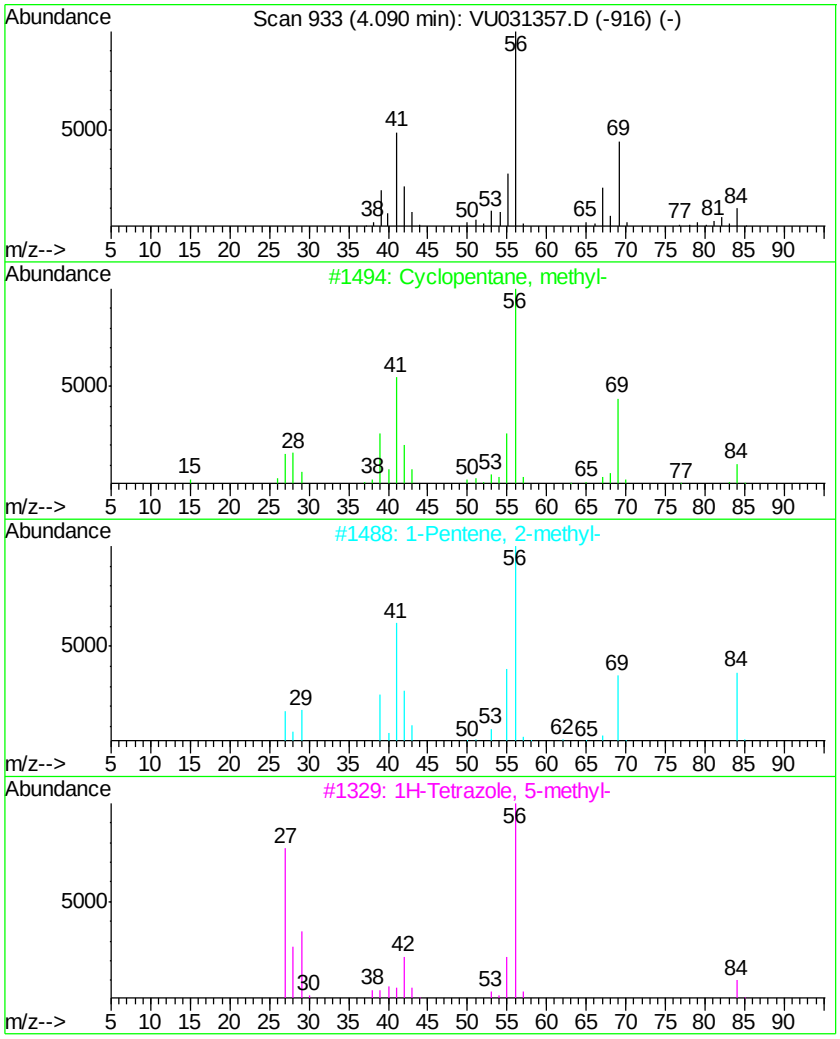
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

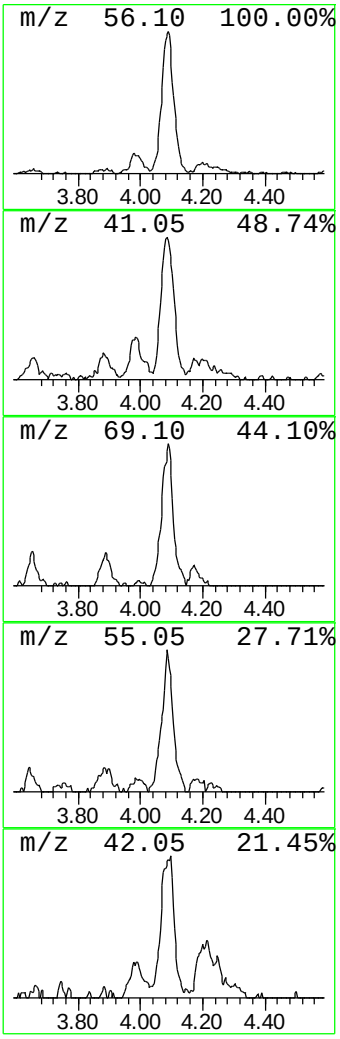
**********

Peak Number 2 (DEL) Alkane: Cyclic4.09 Concentration Rank 64

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.09 | 5.37 ug/L | 139662 | 1,4-Difluorobenzene | 5.88 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopentane, methyl- | 84 | C6H12 | 000096-37-7 | 64 |
| 2 | 1-Pentene, 2-methyl- | 84 | C6H12 | 000763-29-1 | 64 |
| 3 | 1H-Tetrazole, 5-methyl- | 84 | C2H4N4 | 004076-36-2 | 50 |
| 4 | Cyclopentane, methyl- | 84 | C6H12 | 000096-37-7 | 50 |
| 5 | Cyclohexane | 84 | C6H12 | 000110-82-7 | 45 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU042019\
Data File : VU031357.D
Acq On : 19 Apr 2019 14:28
Operator : JC/SP
Sample : K2402-05 5X
Misc : 5.04g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAHH7

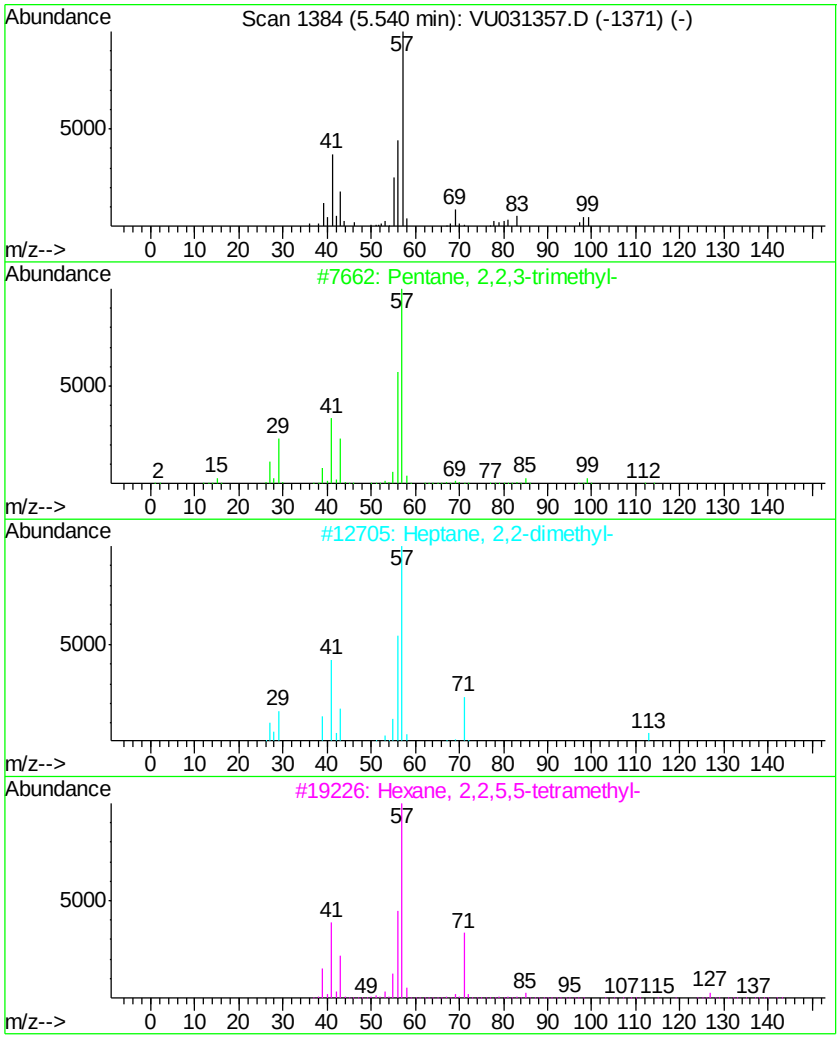
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM041719WMA.M
Quant Title : VOC Analysis

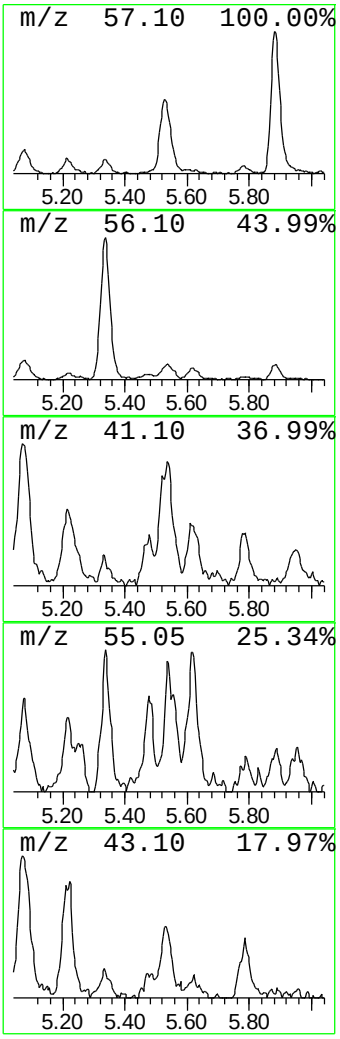
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 3 (DEL) Alkane: Straight-Chai... Concentration Rank 73

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.54 | 3.73 ug/L | 97165 | 1,4-Difluorobenzene | 5.88 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentane, 2,2,3-trimethyl- | 114 | C8H18 | 000564-02-3 | 45 |
| 2 | Heptane, 2,2-dimethyl- | 128 | C9H20 | 001071-26-7 | 42 |
| 3 | Hexane, 2,2,5,5-tetramethyl- | 142 | C10H22 | 001071-81-4 | 42 |
| 4 | 1-Hexene, 4-methyl- | 98 | C7H14 | 003769-23-1 | 40 |
| 5 | Dodecane, 2,2,11,11-tetramethyl- | 226 | C16H34 | 127204-12-0 | 40 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU042019\
Data File : VU031357.D
Acq On : 19 Apr 2019 14:28
Operator : JC/SP
Sample : K2402-05 5X
Misc : 5.04g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAHH7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM041719WMA.M
Quant Title : VOC Analysis

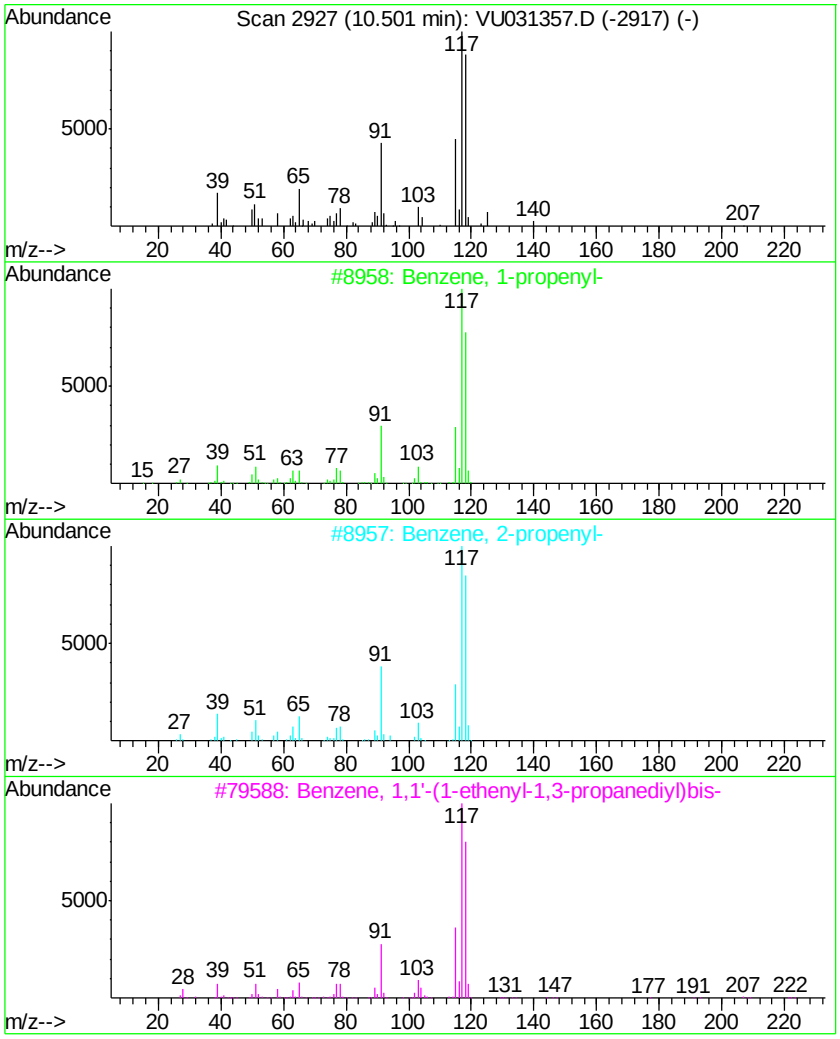
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

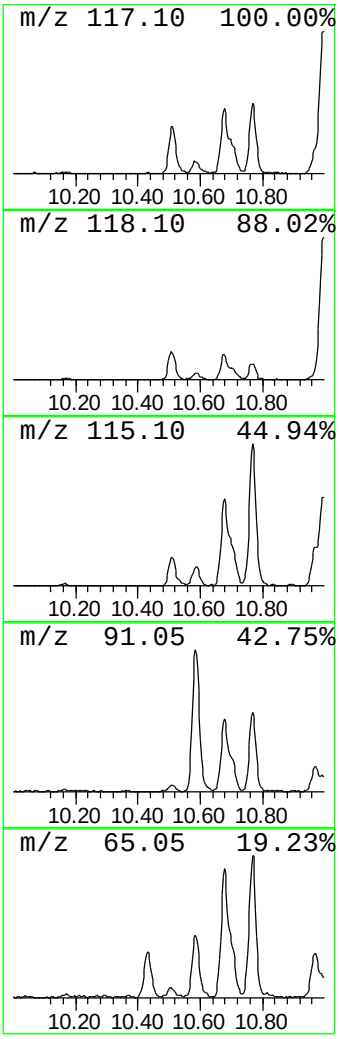
**********

Peak Number 5 Benzene, 1-propenyl- Concentration Rank 74

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.50 | 3.52 ug/L | 101099 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-propenyl- | 118 | C9H10 | 000637-50-3 | 81 |
| 2 | Benzene, 2-propenyl- | 118 | C9H10 | 000300-57-2 | 81 |
| 3 | Benzene, 1,1'-(1-ethenyl-1,3-pro... | 222 | C17H18 | 061141-97-7 | 78 |
| 4 | Tetracyclo[3.3.1.0(2,8).0(4,6)]-... | 118 | C9H10 | 1000191-13-7 | 76 |
| 5 | Benzene, 2-propenyl- | 118 | C9H10 | 000300-57-2 | 72 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU042019\
Data File : VU031357.D
Acq On : 19 Apr 2019 14:28
Operator : JC/SP
Sample : K2402-05 5X
Misc : 5.04g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAHH7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM041719WMA.M
Quant Title : VOC Analysis

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

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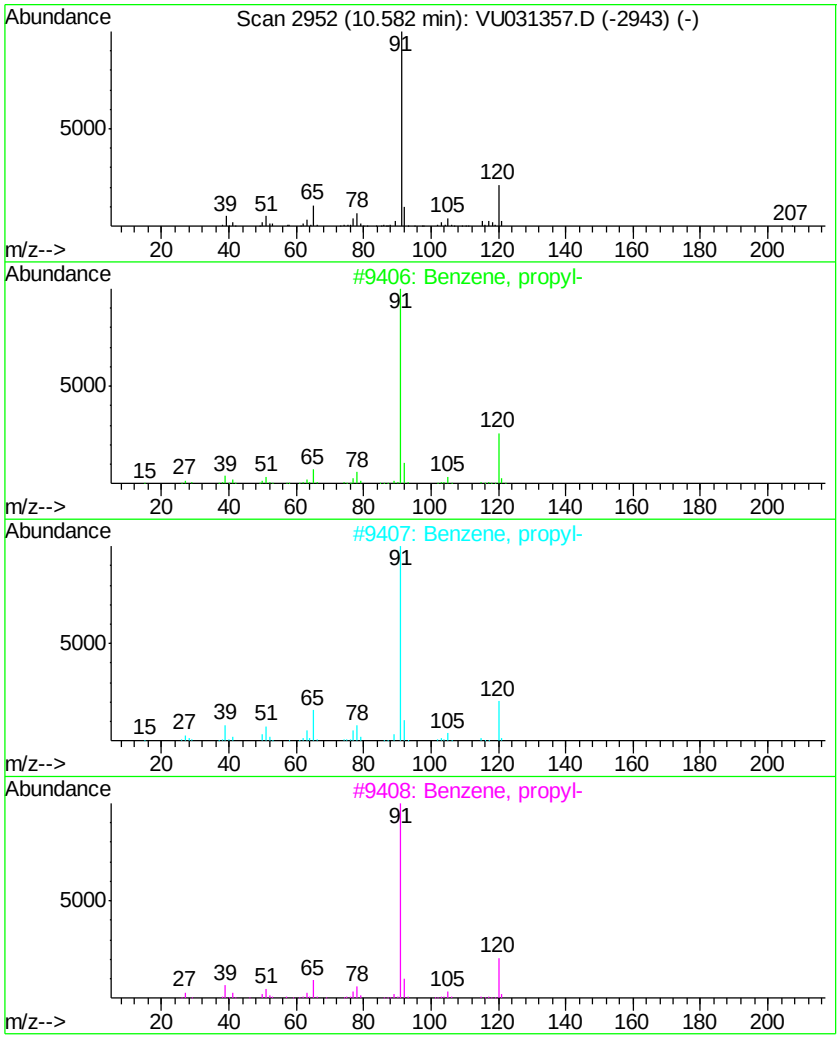
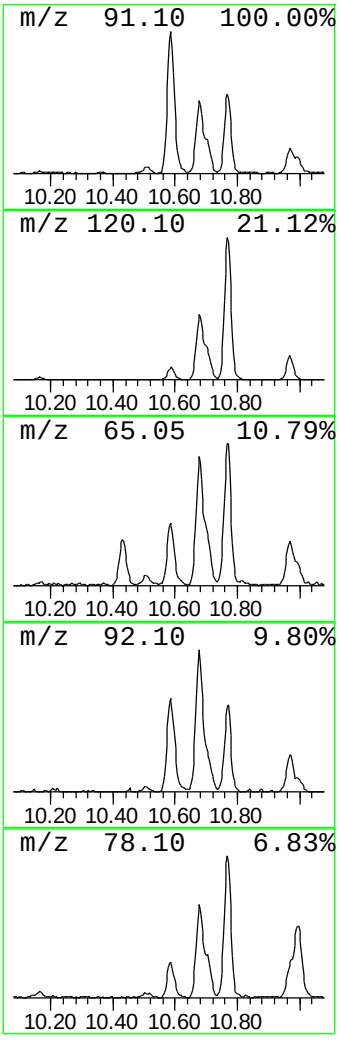
Peak Number 6 Benzene, propyl- Concentration Rank 56

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.58 | 9.28 ug/L | 266107 | 1,4-Dichlorobenzene-d4 | 11.48 |

| 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 | 90 |
| 3 | Benzene, propyl- | 120 | C9H12 | 000103-65-1 | 90 |
| 4 | Ethanol, 2-[(phenylmethyl)amino]- | 151 | C9H13NO | 000104-63-2 | 72 |
| 5 | N-Benzyl-2-phenethylamine | 211 | C15H17N | 003647-71-0 | 72 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU042019\
Data File : VU031357.D
Acq On : 19 Apr 2019 14:28
Operator : JC/SP
Sample : K2402-05 5X
Misc : 5.04g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAHH7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM041719WMA.M
Quant Title : VOC Analysis

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

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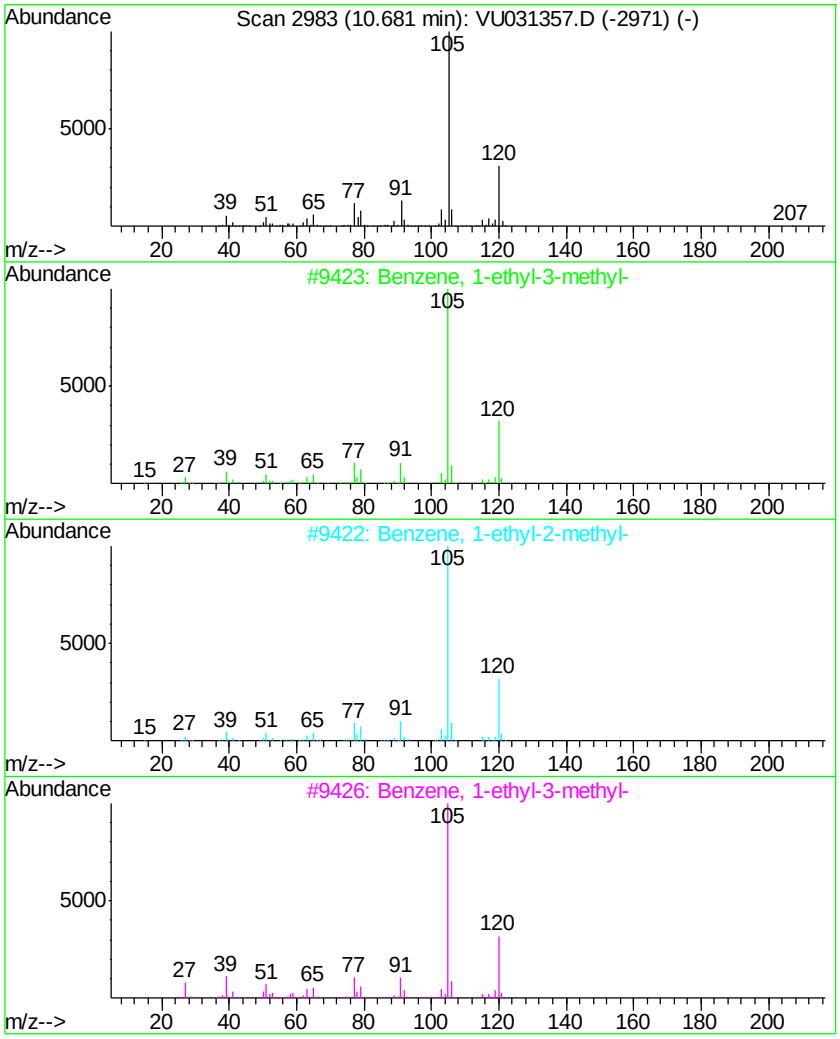
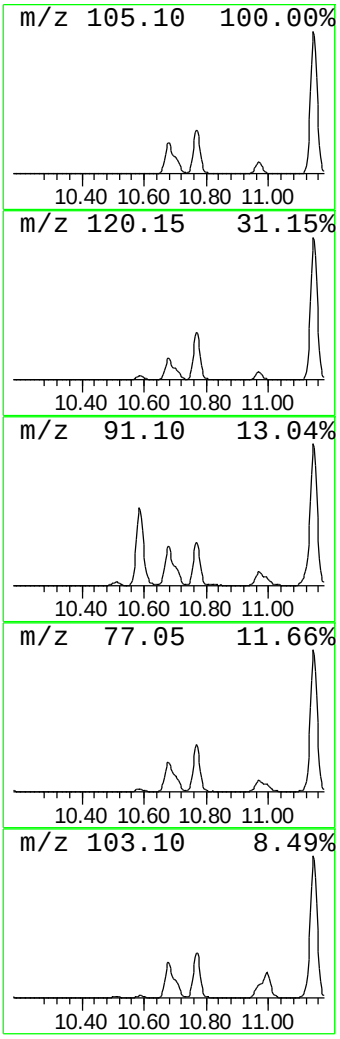
Peak Number 7 Benzene, 1-ethyl-3-methyl- Concentration Rank 23

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.68 | 60.03 ug/L | 1722250 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-ethyl-3-methyl- | 120 | C9H12 | 000620-14-4 | 97 |
| 2 | Benzene, 1-ethyl-2-methyl- | 120 | C9H12 | 000611-14-3 | 95 |
| 3 | Benzene, 1-ethyl-3-methyl- | 120 | C9H12 | 000620-14-4 | 94 |
| 4 | Benzene, 1-ethyl-2-methyl- | 120 | C9H12 | 000611-14-3 | 94 |
| 5 | Benzene, 1-ethyl-3-methyl- | 120 | C9H12 | 000620-14-4 | 94 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU042019\
Data File : VU031357.D
Acq On : 19 Apr 2019 14:28
Operator : JC/SP
Sample : K2402-05 5X
Misc : 5.04g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAHH7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM041719WMA.M
Quant Title : VOC Analysis

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

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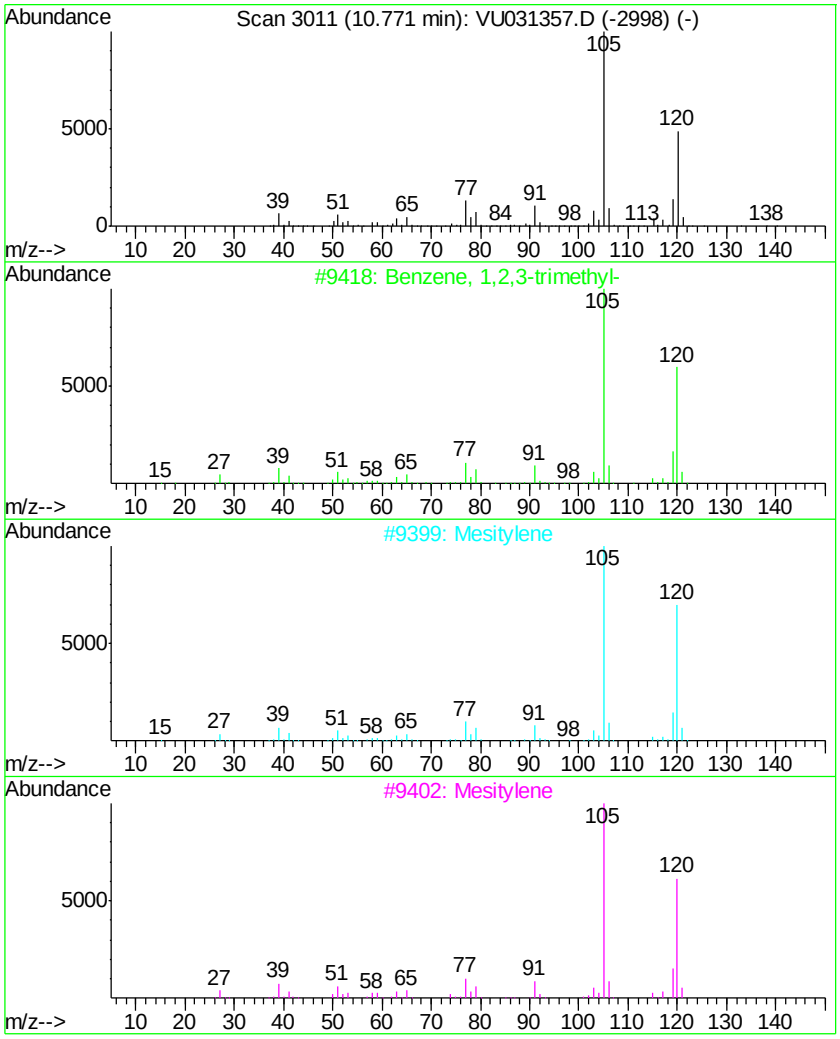
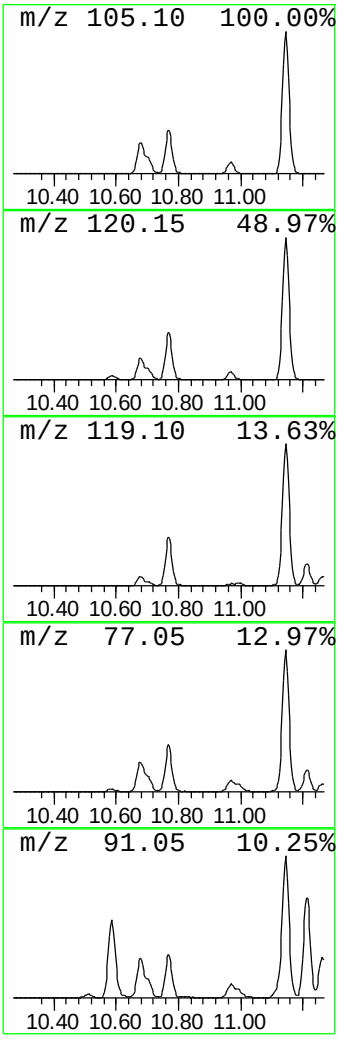
Peak Number 8 Benzene, 1,2,3-trimethyl- Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.77 | 72.55 ug/L | 2081480 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1,2,3-trimethyl- | 120 | C9H12 | 000526-73-8 | 97 |
| 2 | Mesitylene | 120 | C9H12 | 000108-67-8 | 97 |
| 3 | Mesitylene | 120 | C9H12 | 000108-67-8 | 97 |
| 4 | Benzene, 1,2,4-trimethyl- | 120 | C9H12 | 000095-63-6 | 95 |
| 5 | Benzene, 1-ethyl-4-methyl- | 120 | C9H12 | 000622-96-8 | 91 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU042019\
Data File : VU031357.D
Acq On : 19 Apr 2019 14:28
Operator : JC/SP
Sample : K2402-05 5X
Misc : 5.04g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAHH7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM041719WMA.M
Quant Title : VOC Analysis

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

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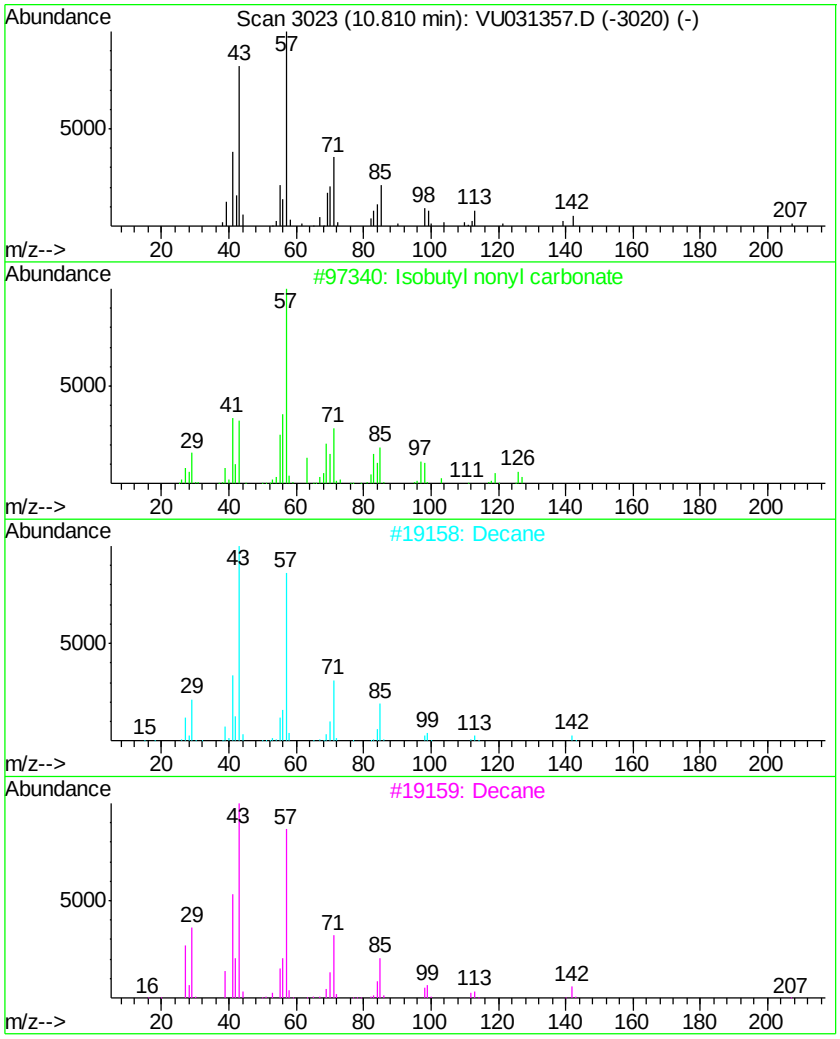
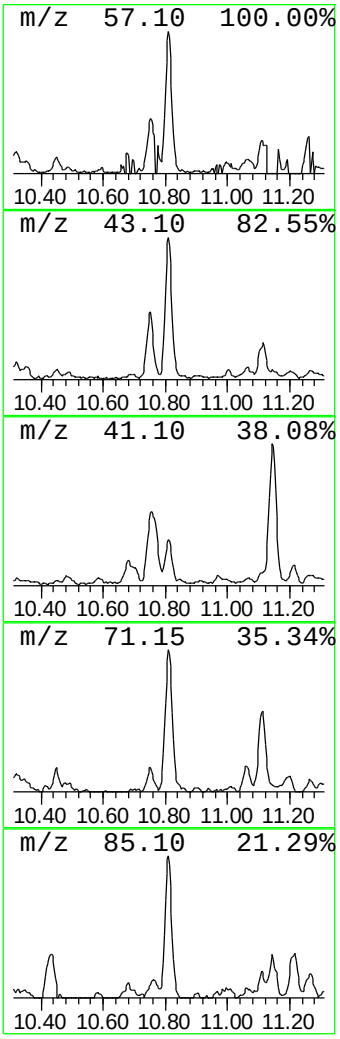
Peak Number 9 Isobutyl nonyl carbonate Concentration Rank 60

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.81 | 6.76 ug/L | 193859 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Isobutyl nonyl carbonate | 244 | C14H28O3 | 959311-27-4 | 64 |
| 2 | Decane | 142 | C10H22 | 000124-18-5 | 64 |
| 3 | Decane | 142 | C10H22 | 000124-18-5 | 58 |
| 4 | Decane | 142 | C10H22 | 000124-18-5 | 58 |
| 5 | Decane, 6-ethyl-2-methyl- | 184 | C13H28 | 062108-21-8 | 53 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU042019\
Data File : VU031357.D
Acq On : 19 Apr 2019 14:28
Operator : JC/SP
Sample : K2402-05 5X
Misc : 5.04g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAHH7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM041719WMA.M
Quant Title : VOC Analysis

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

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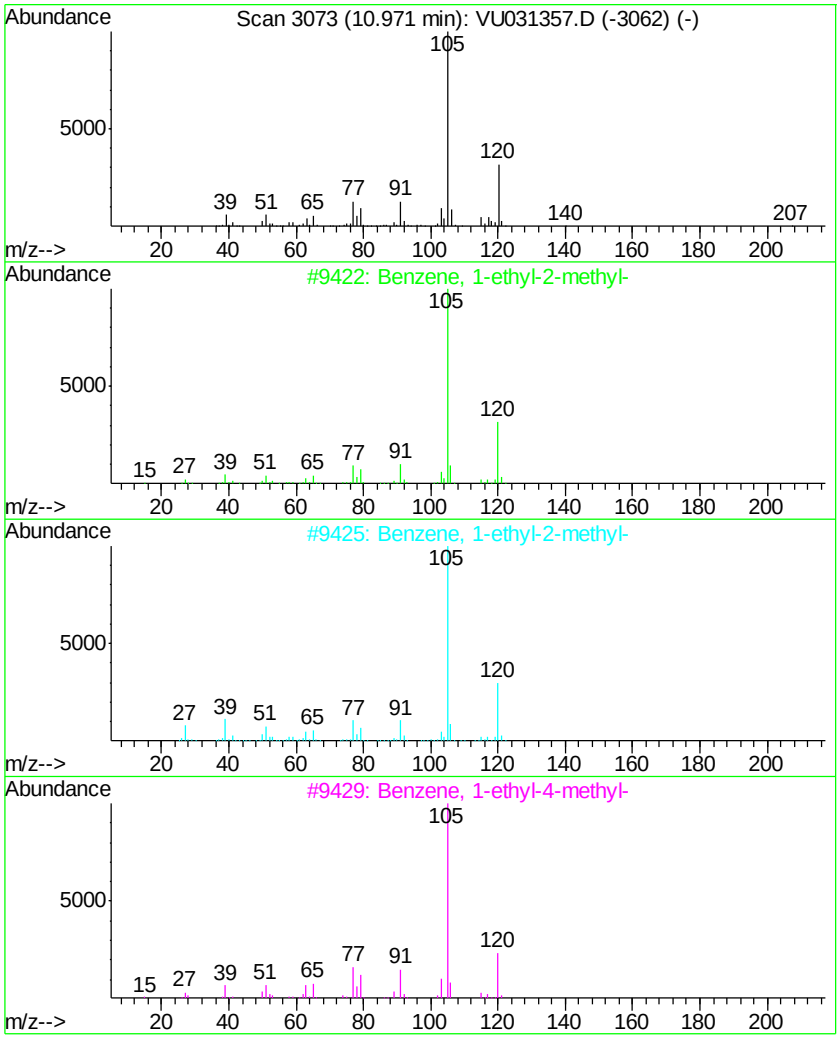
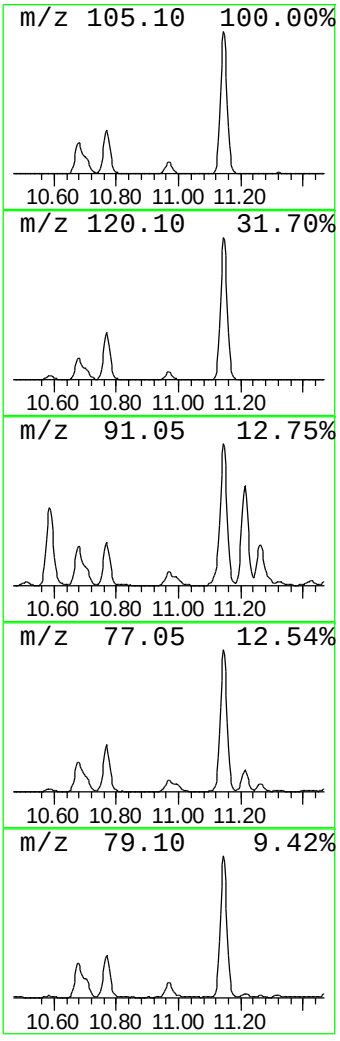
Peak Number 10 Benzene, 1-ethyl-2-methyl- Concentration Rank 46

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.97 | 15.78 ug/L | 452826 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-ethyl-2-methyl- | 120 | C9H12 | 000611-14-3 | 94 |
| 2 | Benzene, 1-ethyl-2-methyl- | 120 | C9H12 | 000611-14-3 | 94 |
| 3 | Benzene, 1-ethyl-4-methyl- | 120 | C9H12 | 000622-96-8 | 94 |
| 4 | Benzene, 1-ethyl-4-methyl- | 120 | C9H12 | 000622-96-8 | 91 |
| 5 | Benzene, 1,2,3-trimethyl- | 120 | C9H12 | 000526-73-8 | 91 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU042019\
Data File : VU031357.D
Acq On : 19 Apr 2019 14:28
Operator : JC/SP
Sample : K2402-05 5X
Misc : 5.04g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAHH7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM041719WMA.M
Quant Title : VOC Analysis

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

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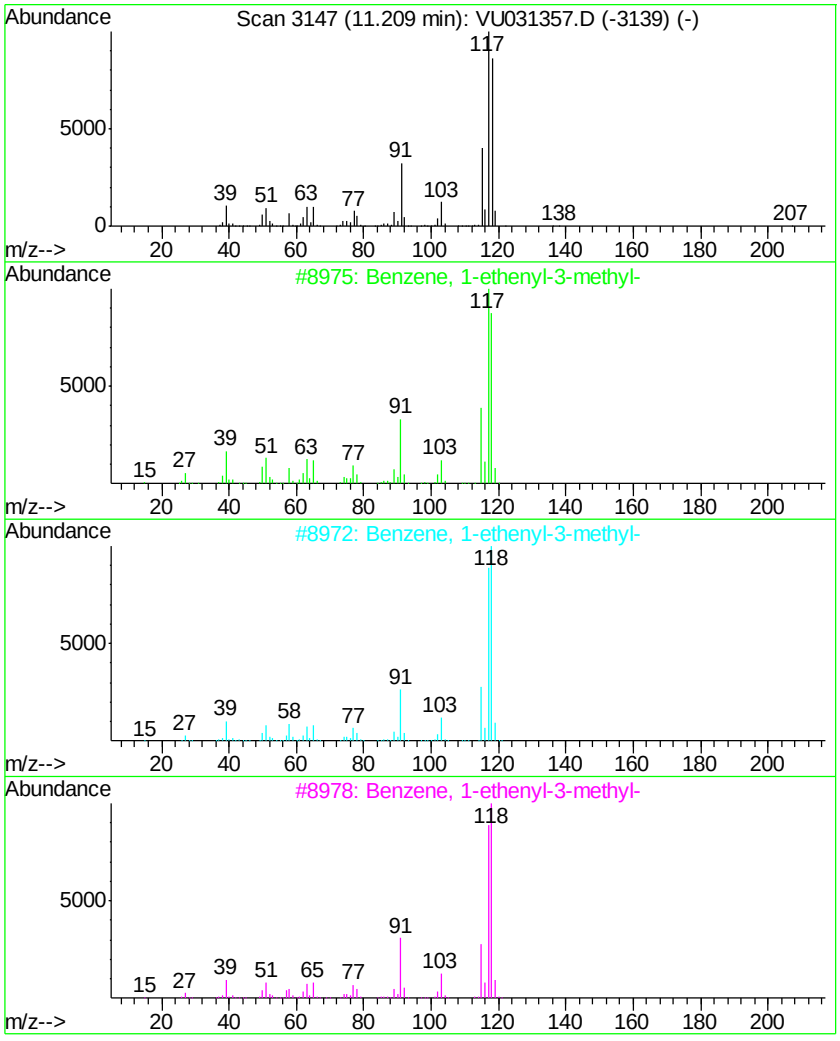
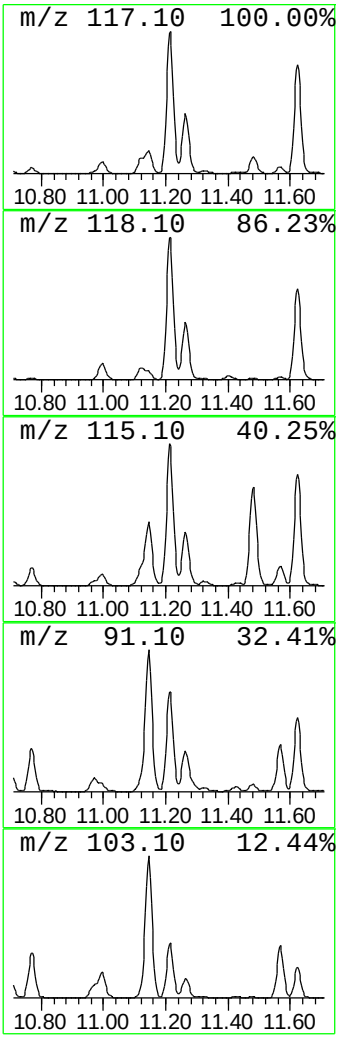
Peak Number 12 Benzene, 1-ethenyl-3-methyl- Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.21 | 67.62 ug/L | 1939880 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-ethenyl-3-methyl- | 118 | C9H10 | 000100-80-1 | 96 |
| 2 | Benzene, 1-ethenyl-3-methyl- | 118 | C9H10 | 000100-80-1 | 96 |
| 3 | Benzene, 1-ethenyl-3-methyl- | 118 | C9H10 | 000100-80-1 | 96 |
| 4 | Benzene, 1-propenyl- | 118 | C9H10 | 000637-50-3 | 95 |
| 5 | Benzene, 1-ethenyl-4-methyl- | 118 | C9H10 | 000622-97-9 | 95 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU042019\
Data File : VU031357.D
Acq On : 19 Apr 2019 14:28
Operator : JC/SP
Sample : K2402-05 5X
Misc : 5.04g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAHH7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM041719WMA.M
Quant Title : VOC Analysis

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

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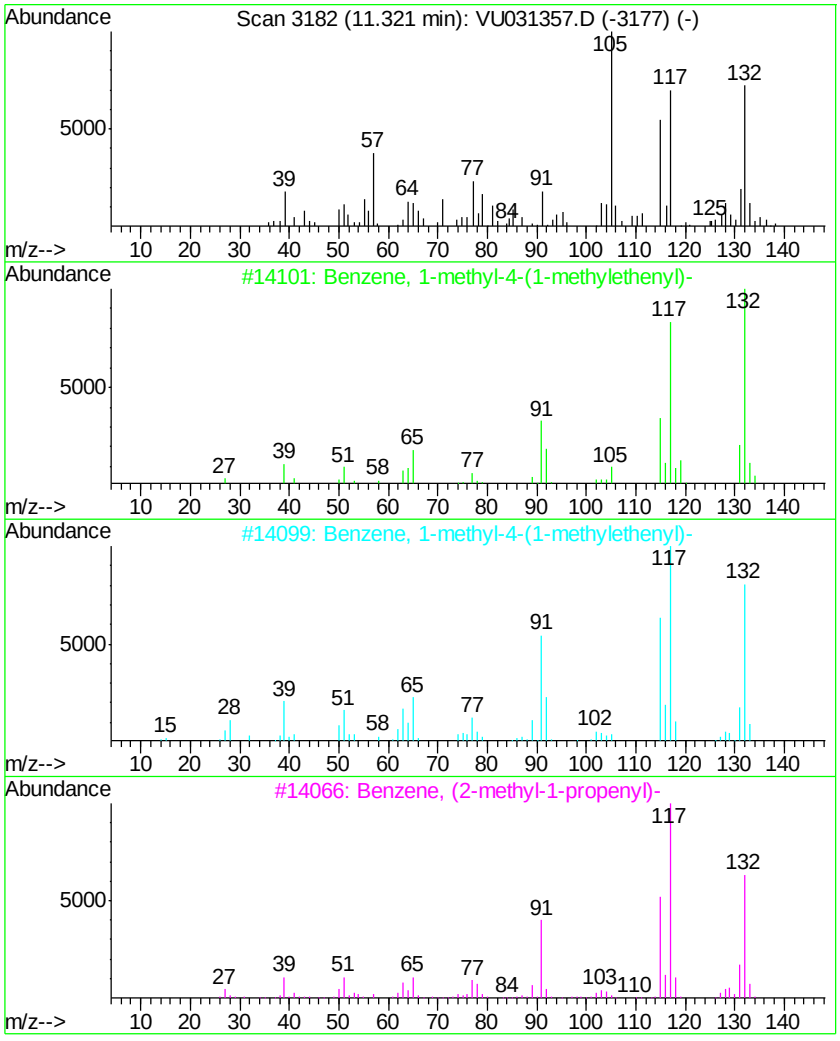
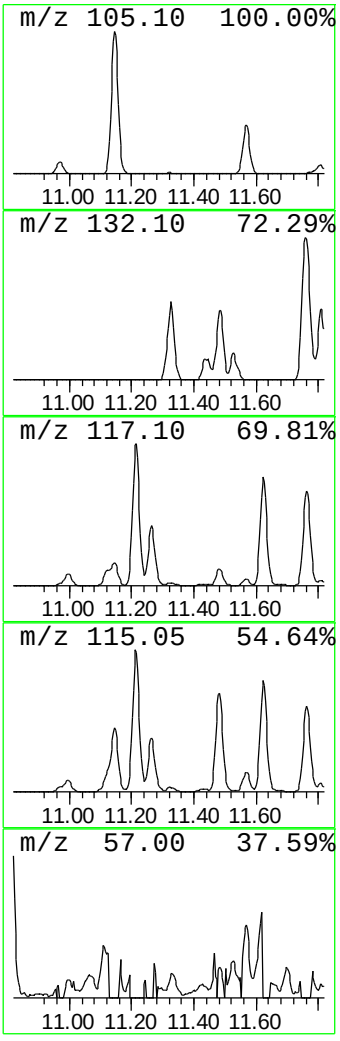
Peak Number 14 Benzene, 1-methyl-4-(1-meth... Concentration Rank 72

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.32 | 3.74 ug/L | 107162 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-methyl-4-(1-methyleth... | 132 | C10H12 | 001195-32-0 | 76 |
| 2 | Benzene, 1-methyl-4-(1-methyleth... | 132 | C10H12 | 001195-32-0 | 74 |
| 3 | Benzene, (2-methyl-1-propenyl)- | 132 | C10H12 | 000768-49-0 | 74 |
| 4 | Benzene, (2-methyl-1-propenyl)- | 132 | C10H12 | 000768-49-0 | 72 |
| 5 | Benzene, 2-ethenyl-1,3-dimethyl- | 132 | C10H12 | 002039-90-9 | 68 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU042019\
Data File : VU031357.D
Acq On : 19 Apr 2019 14:28
Operator : JC/SP
Sample : K2402-05 5X
Misc : 5.04g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAHH7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM041719WMA.M
Quant Title : VOC Analysis

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

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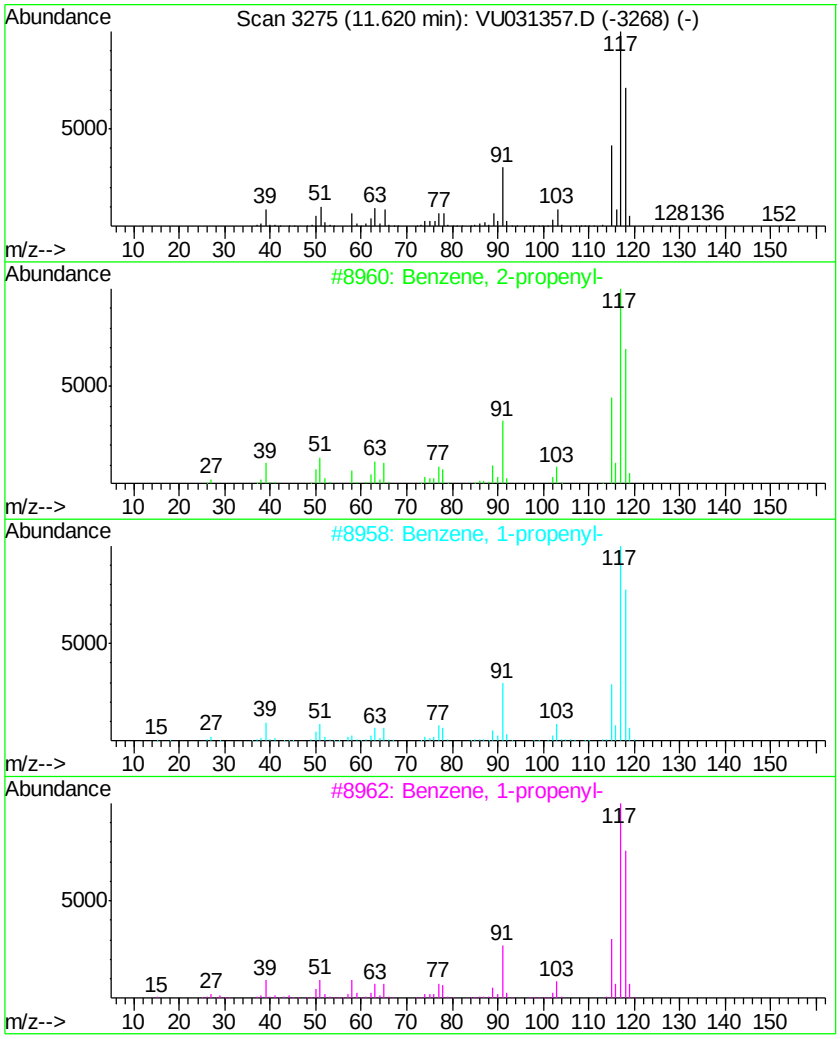
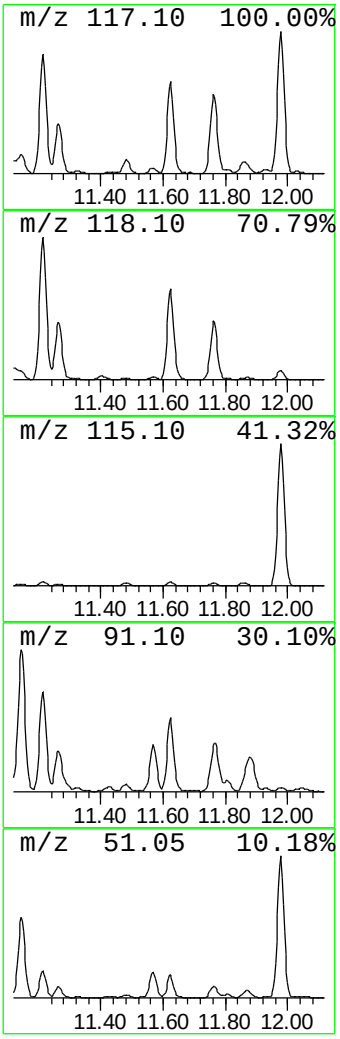
Peak Number 16 Benzene, 2-propenyl- Concentration Rank 27

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.62 | 48.64 ug/L | 1395360 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 2-propenyl- | 118 | C9H10 | 000300-57-2 | 95 |
| 2 | Benzene, 1-propenyl- | 118 | C9H10 | 000637-50-3 | 95 |
| 3 | Benzene, 1-propenyl- | 118 | C9H10 | 000637-50-3 | 94 |
| 4 | (Z)-1-Phenylpropene | 118 | C9H10 | 000766-90-5 | 93 |
| 5 | Benzene, cyclopropyl- | 118 | C9H10 | 000873-49-4 | 93 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU042019\
Data File : VU031357.D
Acq On : 19 Apr 2019 14:28
Operator : JC/SP
Sample : K2402-05 5X
Misc : 5.04g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAHH7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM041719WMA.M
Quant Title : VOC Analysis

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

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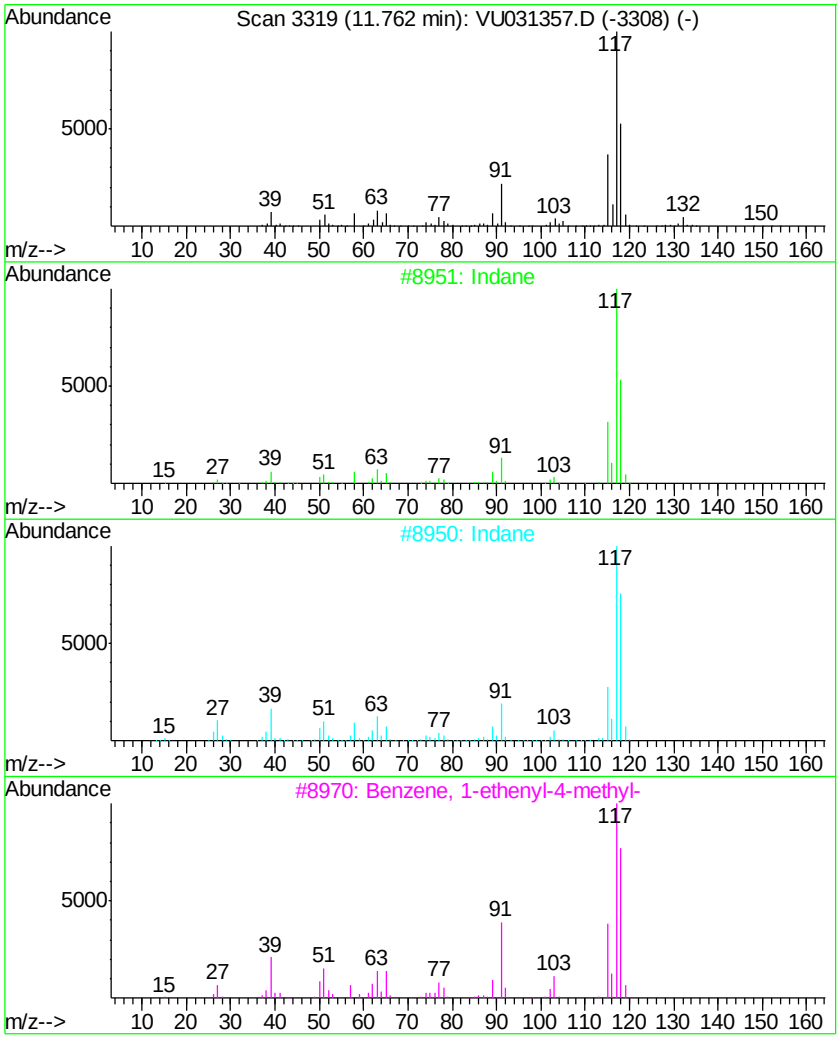
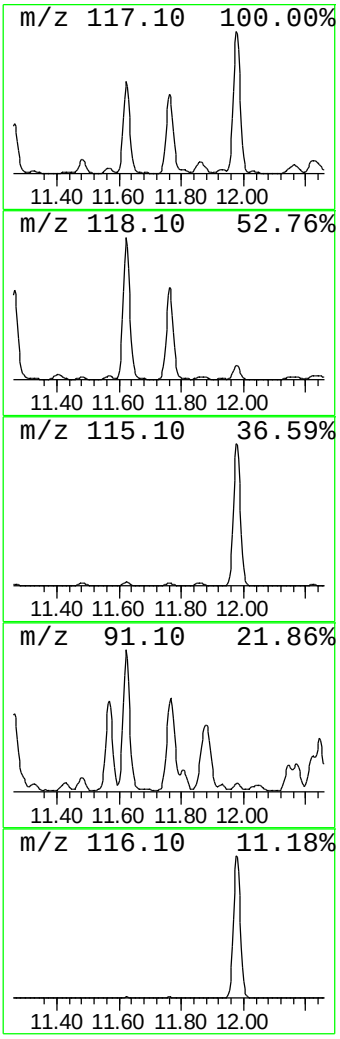
Peak Number 17 Indane Concentration Rank 29

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.76 | 43.16 ug/L | 1238270 | 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 | 90 |
| 3 | Benzene, 1-ethenyl-4-methyl- | 118 | C9H10 | 000622-97-9 | 74 |
| 4 | Benzene, 1-ethenyl-2-methyl- | 118 | C9H10 | 000611-15-4 | 74 |
| 5 | Benzene, 1-propenyl- | 118 | C9H10 | 000637-50-3 | 72 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU042019\
Data File : VU031357.D
Acq On : 19 Apr 2019 14:28
Operator : JC/SP
Sample : K2402-05 5X
Misc : 5.04g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAHH7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM041719WMA.M
Quant Title : VOC Analysis

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

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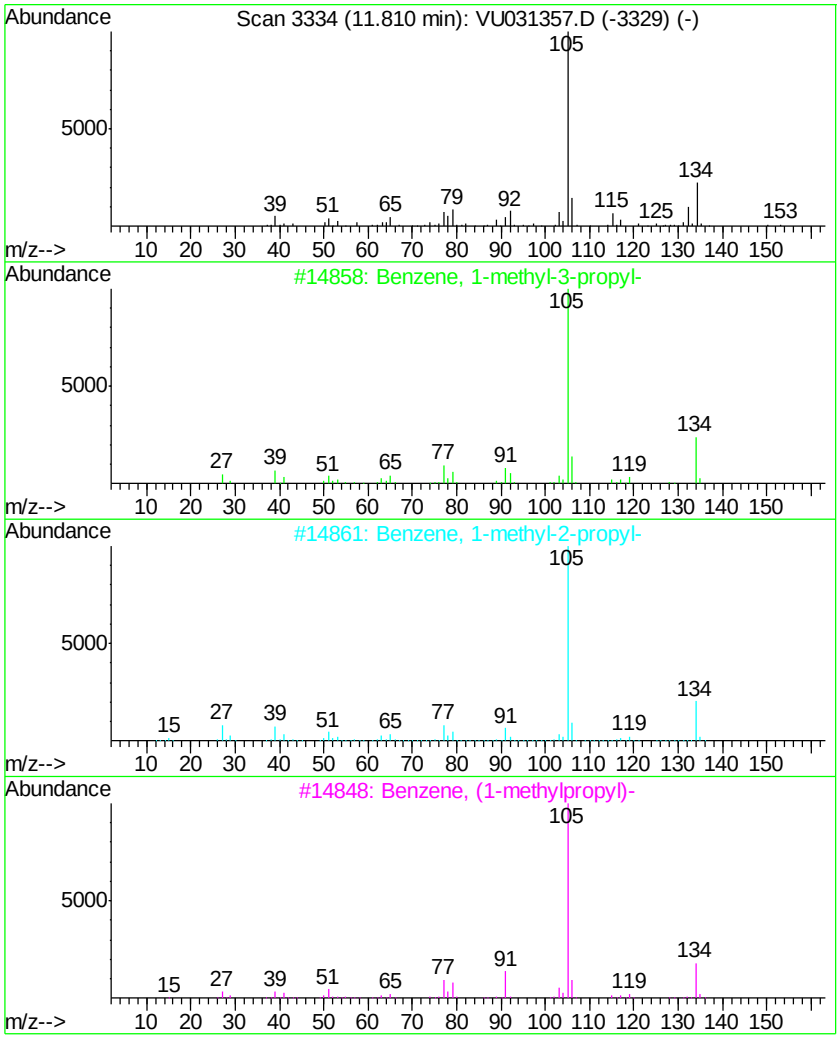
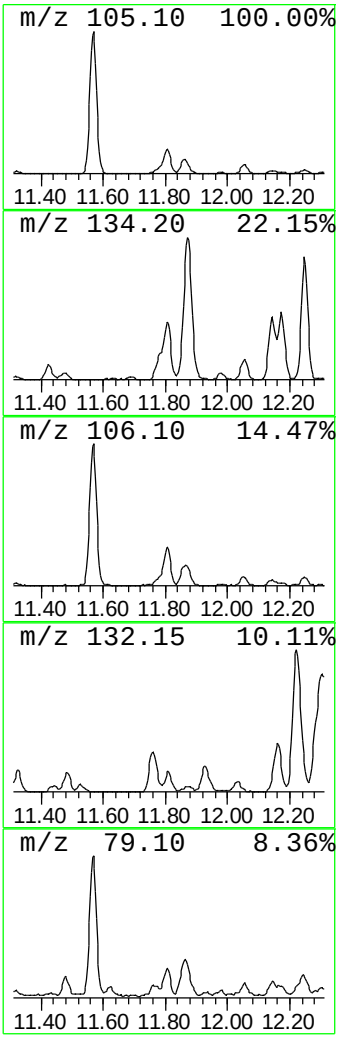
Peak Number 18 Benzene, 1-methyl-3-propyl- Concentration Rank 57

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.81 | 8.23 ug/L | 236036 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-methyl-3-propyl- | 134 | C10H14 | 001074-43-7 | 74 |
| 2 | Benzene, 1-methyl-2-propyl- | 134 | C10H14 | 001074-17-5 | 74 |
| 3 | Benzene, (1-methylpropyl)- | 134 | C10H14 | 000135-98-8 | 74 |
| 4 | Benzene, 1-methyl-3-propyl- | 134 | C10H14 | 001074-43-7 | 72 |
| 5 | Benzene, 1-methyl-2-propyl- | 134 | C10H14 | 001074-17-5 | 72 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU042019\
Data File : VU031357.D
Acq On : 19 Apr 2019 14:28
Operator : JC/SP
Sample : K2402-05 5X
Misc : 5.04g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAHH7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM041719WMA.M
Quant Title : VOC Analysis

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

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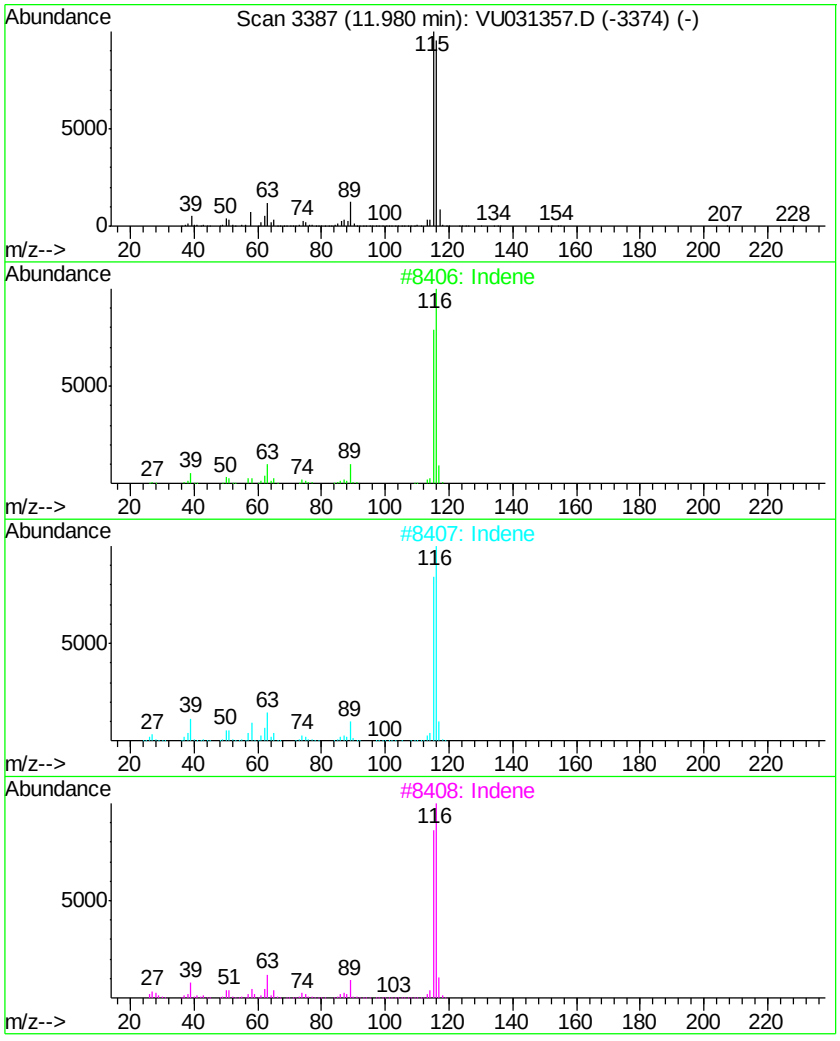
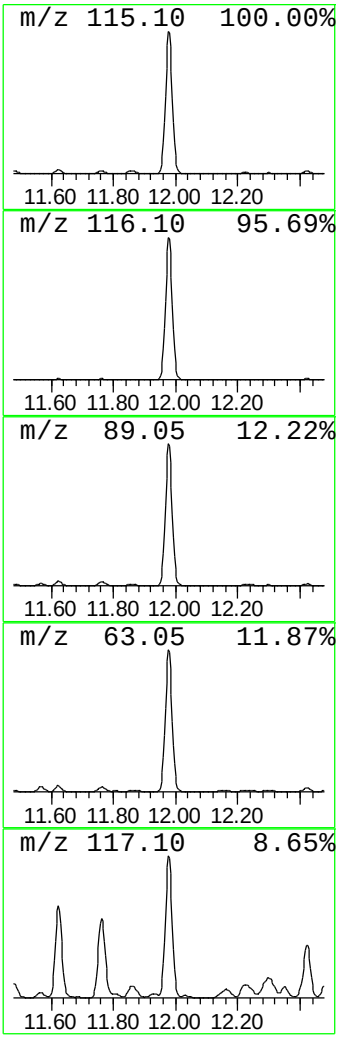
Peak Number 19 Indene Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.98 | 681.08 ug/L | 19539400 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Indene | 116 | C9H8 | 000095-13-6 | 97 |
| 2 | Indene | 116 | C9H8 | 000095-13-6 | 96 |
| 3 | Indene | 116 | C9H8 | 000095-13-6 | 95 |
| 4 | Benzene, 1-propynyl- | 116 | C9H8 | 000673-32-5 | 94 |
| 5 | 3-Methylphenylacetylene | 116 | C9H8 | 000766-82-5 | 91 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU042019\
Data File : VU031357.D
Acq On : 19 Apr 2019 14:28
Operator : JC/SP
Sample : K2402-05 5X
Misc : 5.04g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAHH7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM041719WMA.M
Quant Title : VOC Analysis

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

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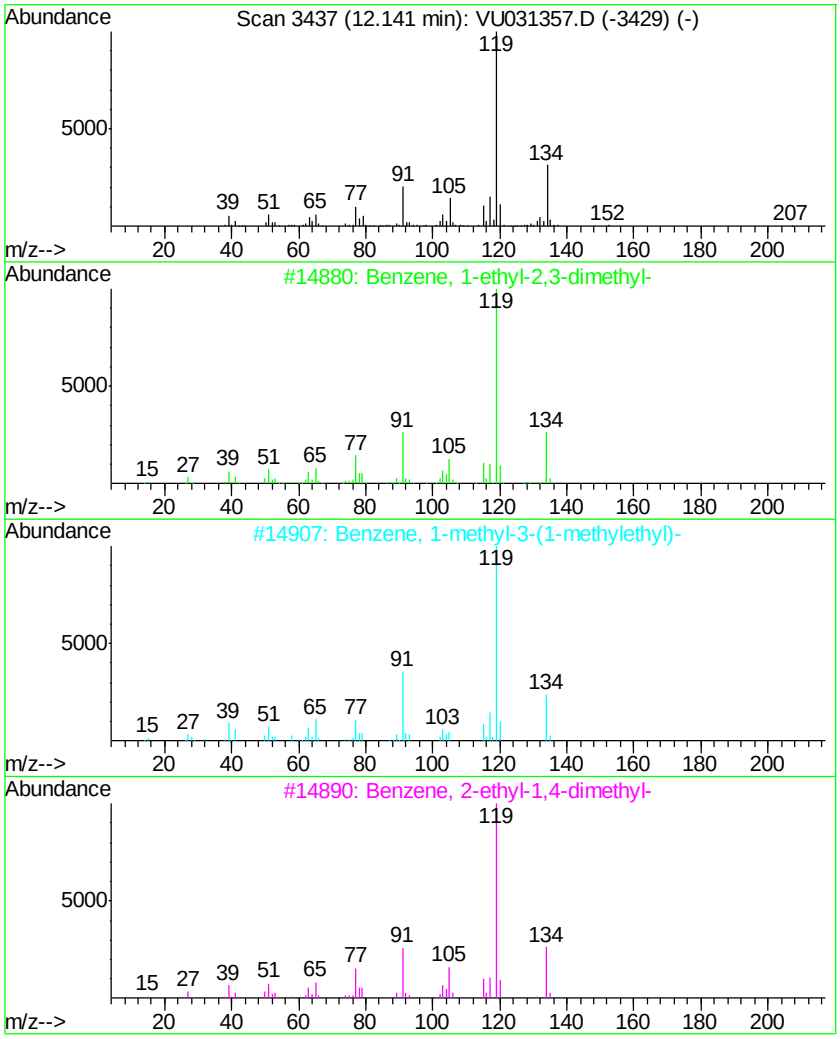
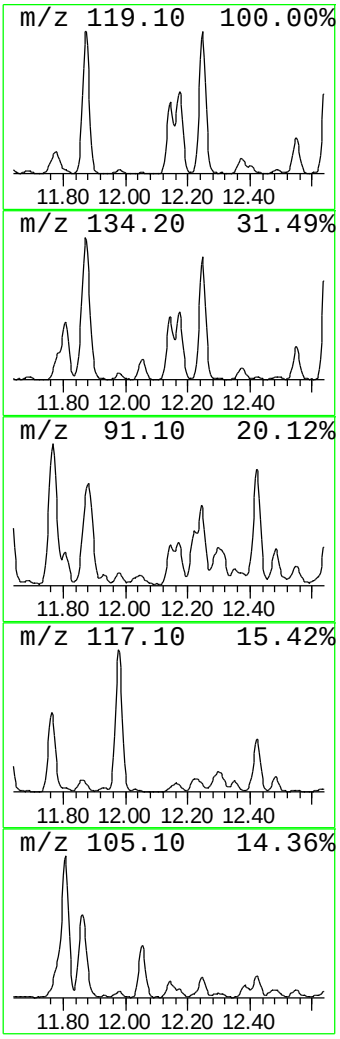
Peak Number 20 Benzene, 1-ethyl-2,3-dimethyl- Concentration Rank 55

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.14 | 10.44 ug/L | 299410 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-ethyl-2,3-dimethyl- | 134 | C10H14 | 000933-98-2 | 91 |
| 2 | Benzene, 1-methyl-3-(1-methyleth... | 134 | C10H14 | 000535-77-3 | 90 |
| 3 | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14 | 001758-88-9 | 90 |
| 4 | Benzene, 2-ethyl-1,3-dimethyl- | 134 | C10H14 | 002870-04-4 | 90 |
| 5 | Benzene, 1-ethyl-2,4-dimethyl- | 134 | C10H14 | 000874-41-9 | 87 |



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Data File : VU031357.D
Acq On : 19 Apr 2019 14:28
Operator : JC/SP
Sample : K2402-05 5X
Misc : 5.04g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAHH7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM041719WMA.M
Quant Title : VOC Analysis

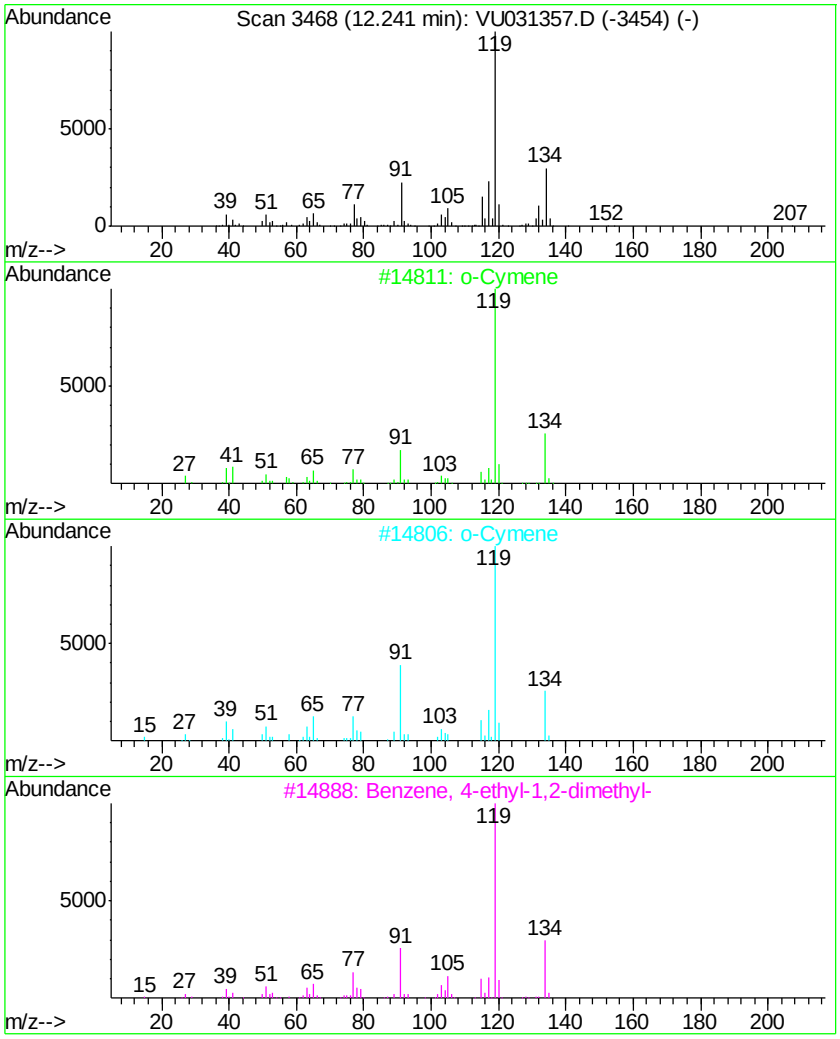
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

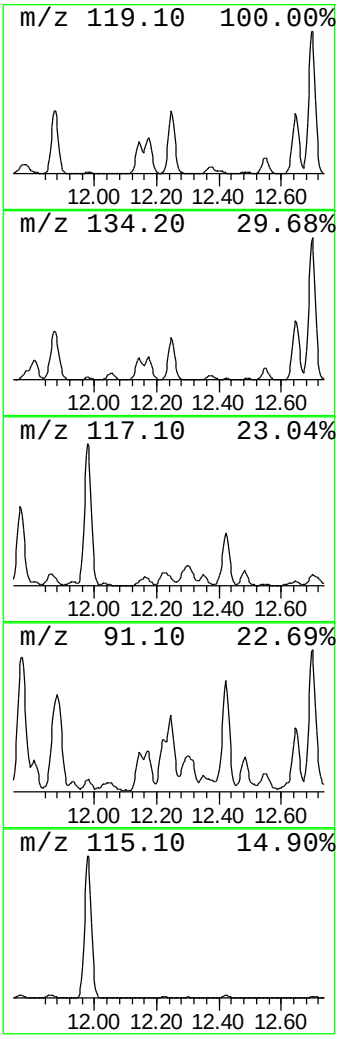
**********

Peak Number 21 o-Cymene Concentration Rank 32

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.24 | 28.86 ug/L | 827966 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | o-Cymene | 134 | C10H14 | 000527-84-4 | 94 |
| 2 | o-Cymene | 134 | C10H14 | 000527-84-4 | 94 |
| 3 | Benzene, 4-ethyl-1,2-dimethyl- | 134 | C10H14 | 000934-80-5 | 93 |
| 4 | Benzene, 1-methyl-3-(1-methyleth... | 134 | C10H14 | 000535-77-3 | 91 |
| 5 | Benzene, 1,2,4,5-tetramethyl- | 134 | C10H14 | 000095-93-2 | 90 |



Library Search Compound Report

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Data File : VU031357.D
Acq On : 19 Apr 2019 14:28
Operator : JC/SP
Sample : K2402-05 5X
Misc : 5.04g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAHH7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM041719WMA.M
Quant Title : VOC Analysis

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

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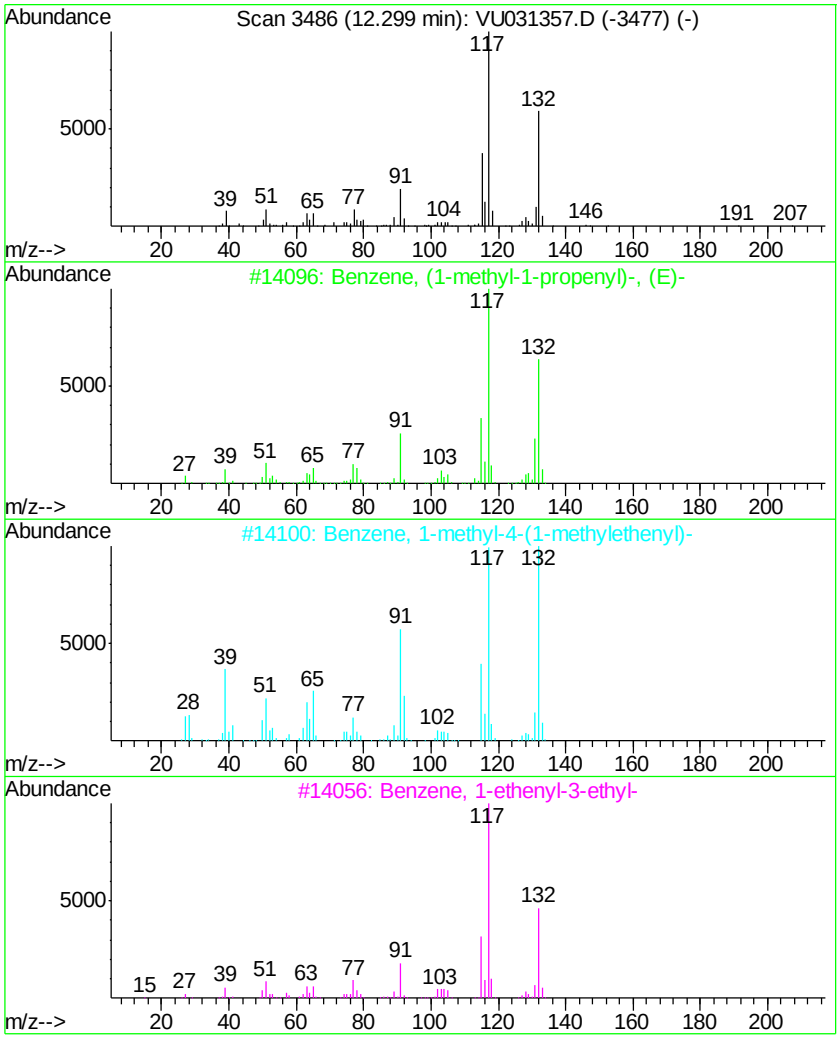
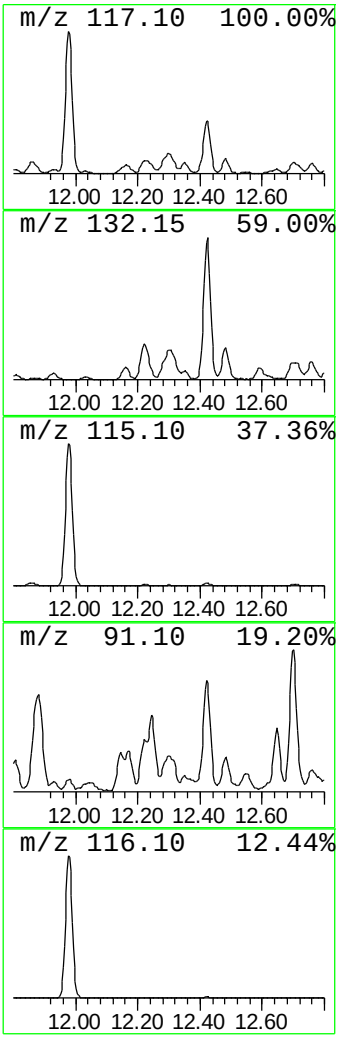
Peak Number 22 Benzene, (1-methyl-1-propen... Concentration Rank 52

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.30 | 12.40 ug/L | 355878 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, (1-methyl-1-propenyl)-,... | 132 | C10H12 | 000768-00-3 | 90 |
| 2 | Benzene, 1-methyl-4-(1-methyleth... | 132 | C10H12 | 001195-32-0 | 90 |
| 3 | Benzene, 1-ethenyl-3-ethyl- | 132 | C10H12 | 007525-62-4 | 87 |
| 4 | Benzene, 4-ethenyl-1,2-dimethyl- | 132 | C10H12 | 027831-13-6 | 87 |
| 5 | Benzene, 2-butenyl- | 132 | C10H12 | 001560-06-1 | 87 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU042019\
Data File : VU031357.D
Acq On : 19 Apr 2019 14:28
Operator : JC/SP
Sample : K2402-05 5X
Misc : 5.04g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAHH7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM041719WMA.M
Quant Title : VOC Analysis

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

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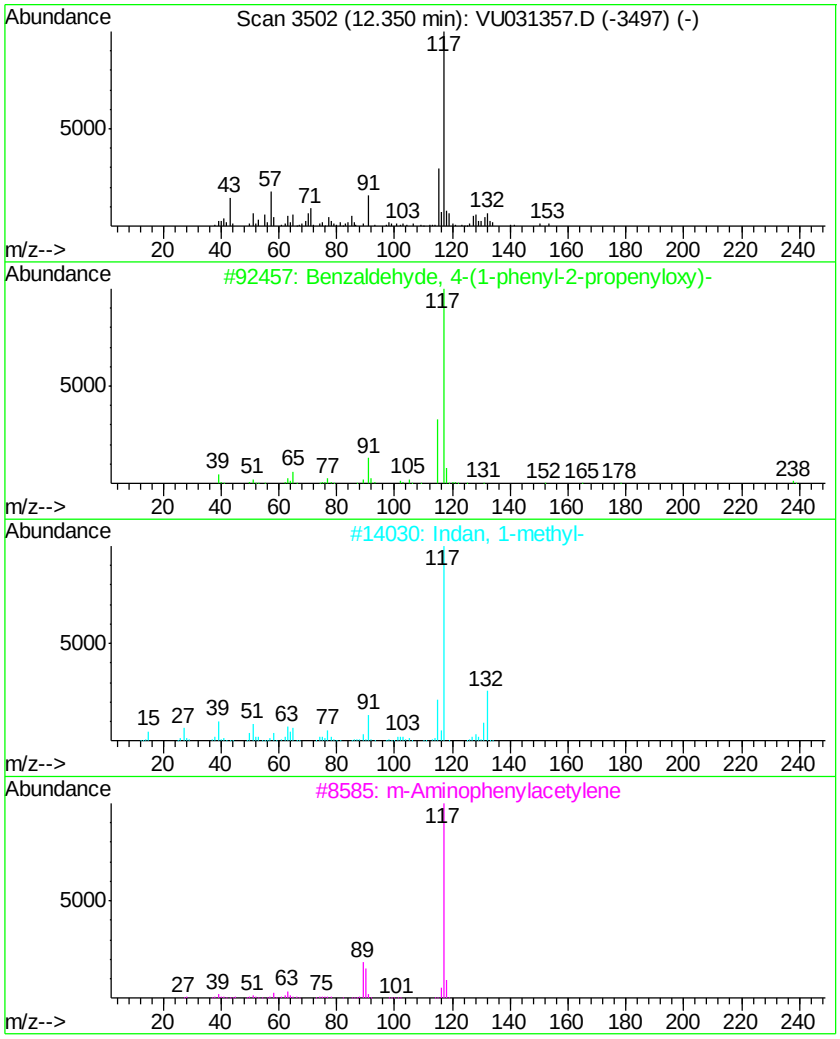
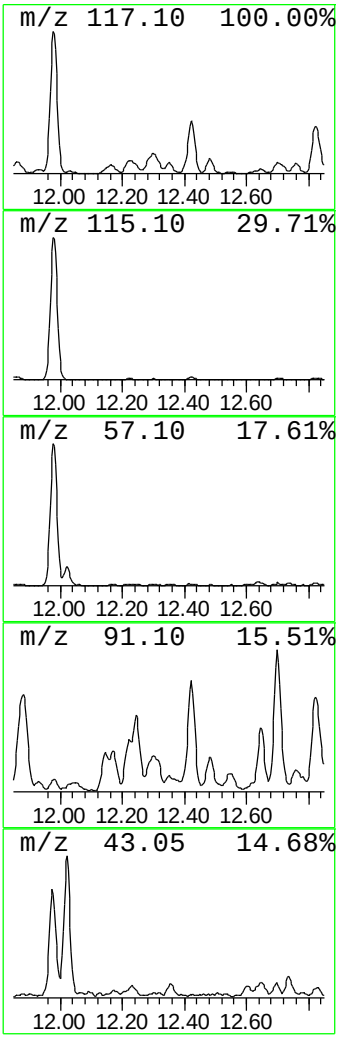
Peak Number 23 Benzaldehyde, 4-(1-phenyl-2... Concentration Rank 70

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.35 | 3.83 ug/L | 109768 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzaldehyde, 4-(1-phenyl-2-prop... | 238 | C16H14O2 | 1000277-56-1 | 53 |
| 2 | Indan, 1-methyl- | 132 | C10H12 | 000767-58-8 | 45 |
| 3 | m-Aminophenylacetylene | 117 | C8H7N | 054060-30-9 | 43 |
| 4 | Benzene, (2-bromocyclopropyl)- | 196 | C9H9Br | 036617-02-4 | 42 |
| 5 | Indan, 1-methyl- | 132 | C10H12 | 000767-58-8 | 42 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU042019\
Data File : VU031357.D
Acq On : 19 Apr 2019 14:28
Operator : JC/SP
Sample : K2402-05 5X
Misc : 5.04g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAHH7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM041719WMA.M
Quant Title : VOC Analysis

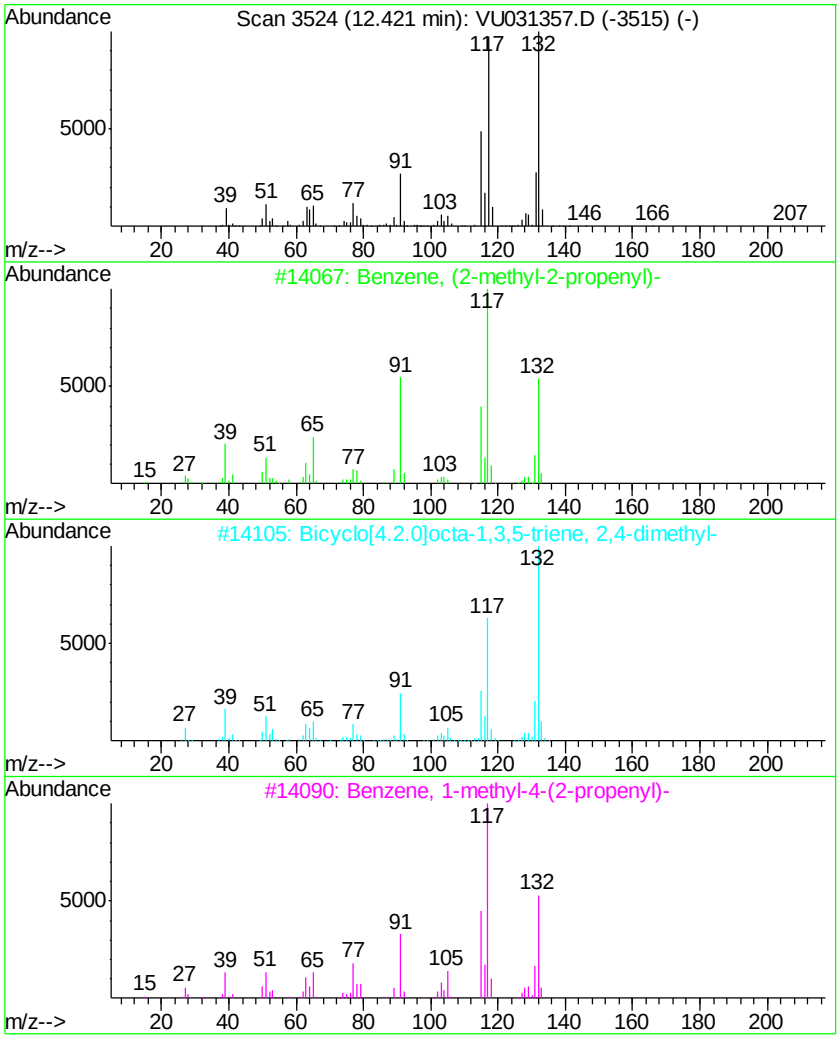
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

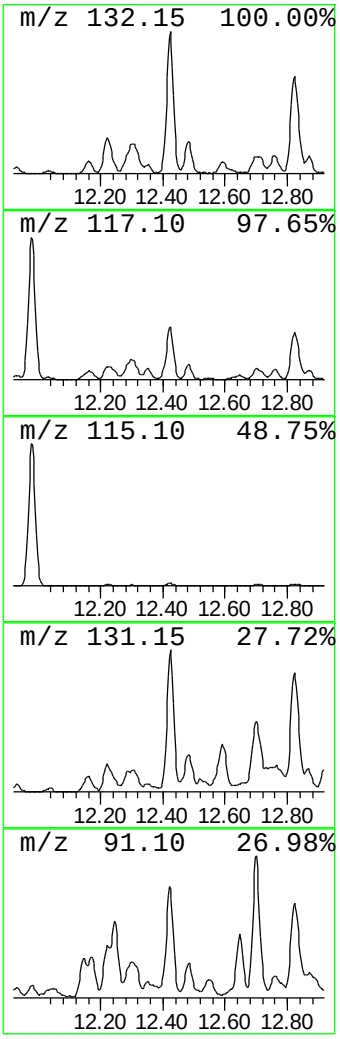
**********

Peak Number 24 Benzene, (2-methyl-2-propen... Concentration Rank 31

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.42 | 38.19 ug/L | 1095710 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, (2-methyl-2-propenyl)- | 132 | C10H12 | 003290-53-7 | 95 |
| 2 | Bicyclo[4.2.0]octa-1,3,5-triene,... | 132 | C10H12 | 028749-81-7 | 94 |
| 3 | Benzene, 1-methyl-4-(2-propenyl)- | 132 | C10H12 | 003333-13-9 | 94 |
| 4 | Benzene, 1-methyl-4-(1-methyleth... | 132 | C10H12 | 001195-32-0 | 94 |
| 5 | Benzene, 2-ethenyl-1,3-dimethyl- | 132 | C10H12 | 002039-90-9 | 93 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU042019\
Data File : VU031357.D
Acq On : 19 Apr 2019 14:28
Operator : JC/SP
Sample : K2402-05 5X
Misc : 5.04g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAHH7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM041719WMA.M
Quant Title : VOC Analysis

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

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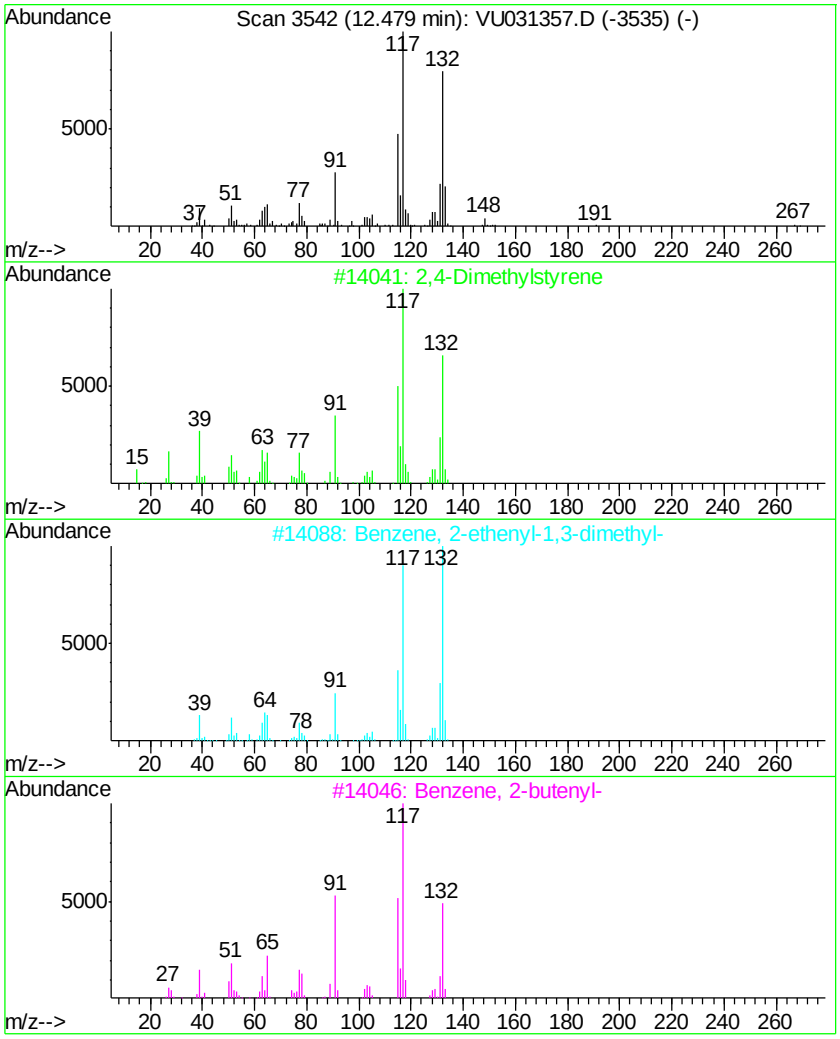
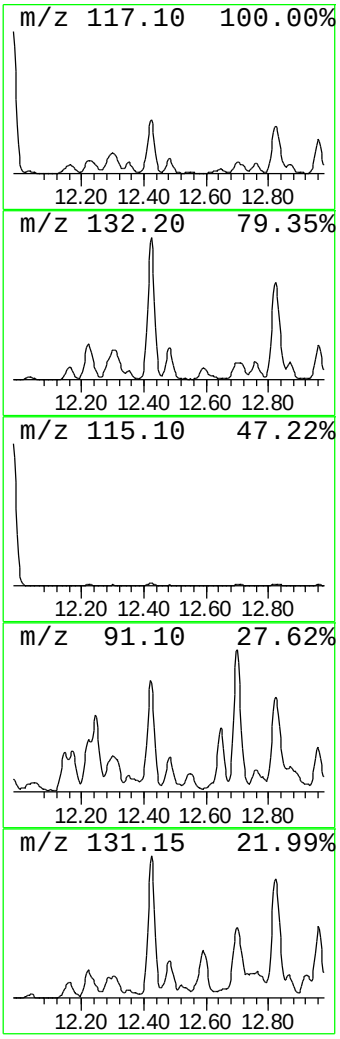
Peak Number 25 2,4-Dimethylstyrene Concentration Rank 54

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.48 | 10.52 ug/L | 301800 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2,4-Dimethylstyrene | 132 | C10H12 | 002234-20-0 | 95 |
| 2 | Benzene, 2-ethenyl-1,3-dimethyl- | 132 | C10H12 | 002039-90-9 | 95 |
| 3 | Benzene, 2-butenyl- | 132 | C10H12 | 001560-06-1 | 94 |
| 4 | Benzene, 2-ethenyl-1,4-dimethyl- | 132 | C10H12 | 002039-89-6 | 93 |
| 5 | Benzene, 2-butenyl- | 132 | C10H12 | 001560-06-1 | 93 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU042019\
Data File : VU031357.D
Acq On : 19 Apr 2019 14:28
Operator : JC/SP
Sample : K2402-05 5X
Misc : 5.04g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAHH7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM041719WMA.M
Quant Title : VOC Analysis

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

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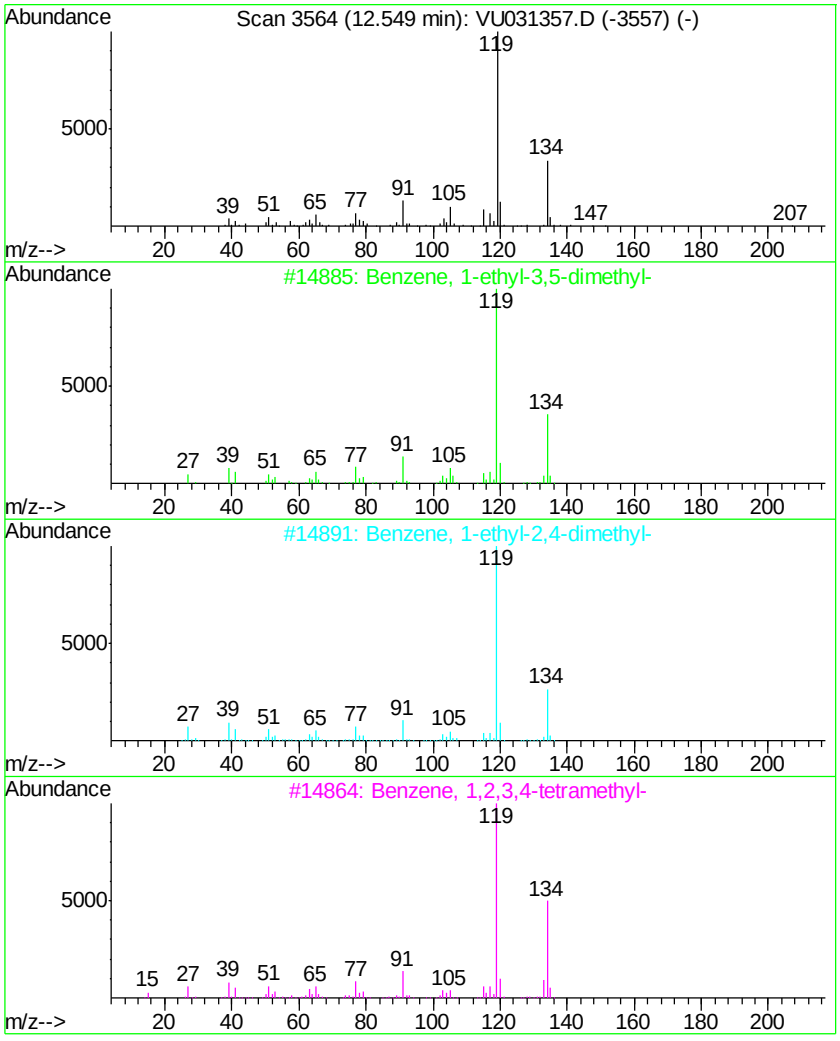
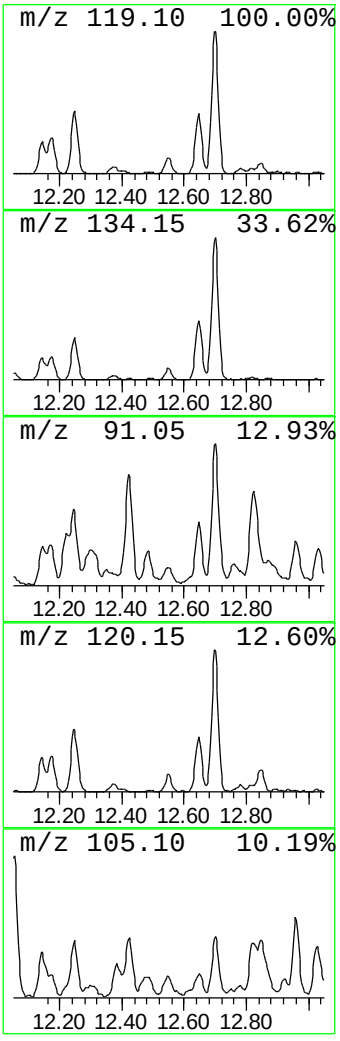
Peak Number 26 Benzene, 1-ethyl-3,5-dimethyl- Concentration Rank 75

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.55 | 3.42 ug/L | 98197 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-ethyl-3,5-dimethyl- | 134 | C10H14 | 000934-74-7 | 91 |
| 2 | Benzene, 1-ethyl-2,4-dimethyl- | 134 | C10H14 | 000874-41-9 | 91 |
| 3 | Benzene, 1,2,3,4-tetramethyl- | 134 | C10H14 | 000488-23-3 | 91 |
| 4 | Benzene, 1-ethyl-2,3-dimethyl- | 134 | C10H14 | 000933-98-2 | 91 |
| 5 | Benzene, 1,2,3,5-tetramethyl- | 134 | C10H14 | 000527-53-7 | 91 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU042019\
Data File : VU031357.D
Acq On : 19 Apr 2019 14:28
Operator : JC/SP
Sample : K2402-05 5X
Misc : 5.04g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAHH7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM041719WMA.M
Quant Title : VOC Analysis

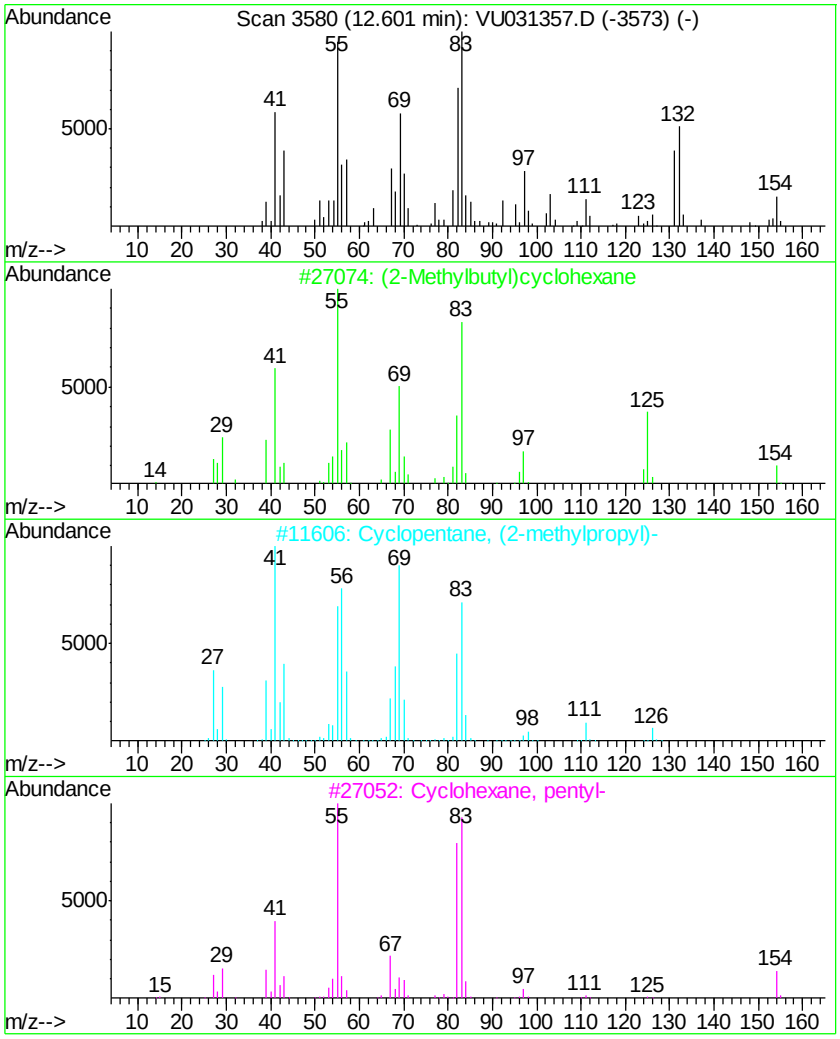
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

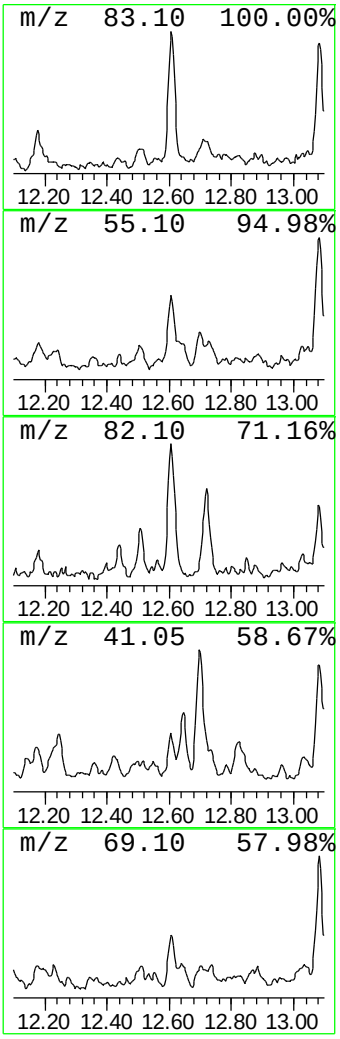
**********

Peak Number 27 (DEL) Alkane: Cyclic12.60 Concentration Rank 76

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.60 | 3.38 ug/L | 96938 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | (2-Methylbutyl)cyclohexane | 154 | C11H22 | 054105-77-0 | 64 |
| 2 | Cyclopentane, (2-methylpropyl)- | 126 | C9H18 | 003788-32-7 | 58 |
| 3 | Cyclohexane, pentyl- | 154 | C11H22 | 004292-92-6 | 52 |
| 4 | Cyclohexane, pentyl- | 154 | C11H22 | 004292-92-6 | 52 |
| 5 | Cyclohexane, (1-methylethyl)- | 126 | C9H18 | 000696-29-7 | 46 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU042019\
Data File : VU031357.D
Acq On : 19 Apr 2019 14:28
Operator : JC/SP
Sample : K2402-05 5X
Misc : 5.04g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAHH7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM041719WMA.M
Quant Title : VOC Analysis

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

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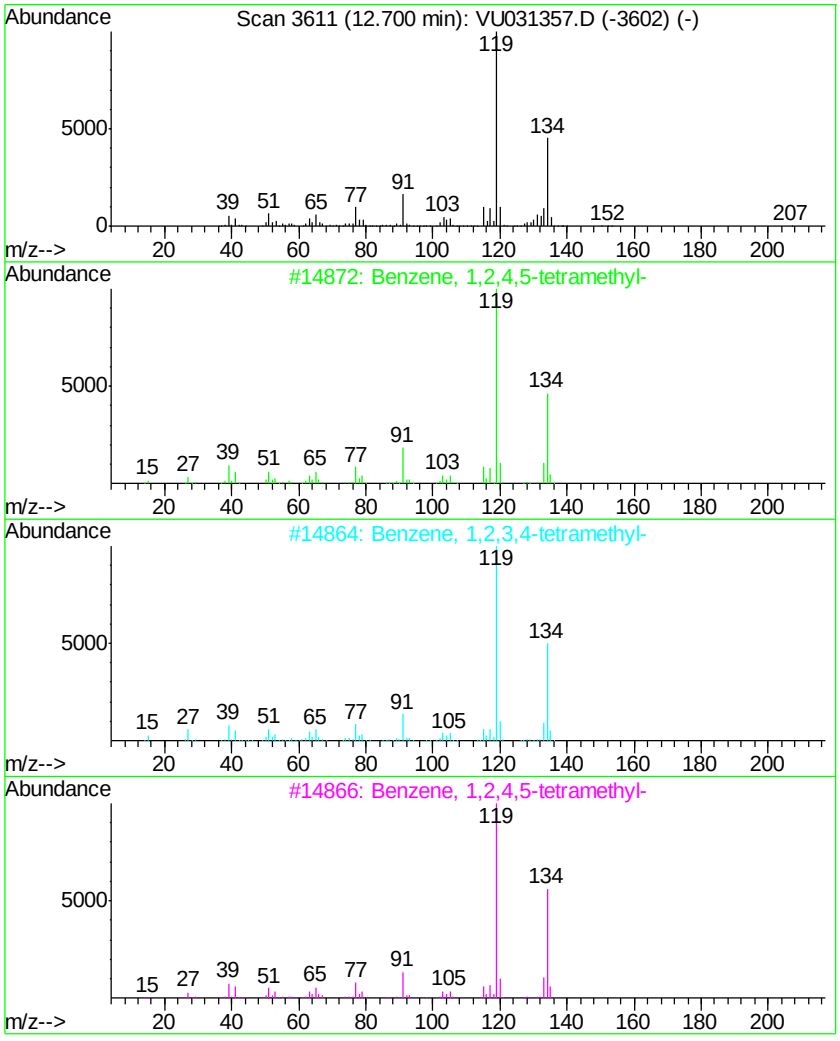
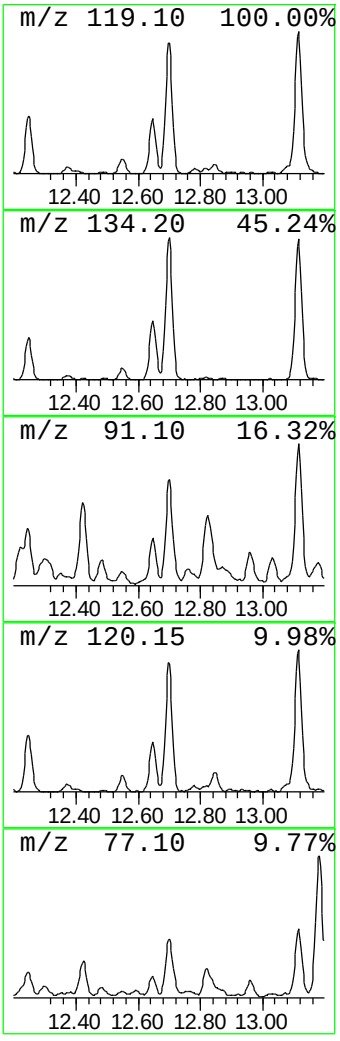
Peak Number 29 Benzene, 1,2,4,5-tetramethyl- Concentration Rank 24

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.70 | 57.30 ug/L | 1643890 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1,2,4,5-tetramethyl- | 134 | C10H14 | 000095-93-2 | 95 |
| 2 | Benzene, 1,2,3,4-tetramethyl- | 134 | C10H14 | 000488-23-3 | 95 |
| 3 | Benzene, 1,2,4,5-tetramethyl- | 134 | C10H14 | 000095-93-2 | 94 |
| 4 | Benzene, 1,2,3,5-tetramethyl- | 134 | C10H14 | 000527-53-7 | 94 |
| 5 | Benzene, 1-ethyl-2,4-dimethyl- | 134 | C10H14 | 000874-41-9 | 94 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU042019\
Data File : VU031357.D
Acq On : 19 Apr 2019 14:28
Operator : JC/SP
Sample : K2402-05 5X
Misc : 5.04g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAHH7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM041719WMA.M
Quant Title : VOC Analysis

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

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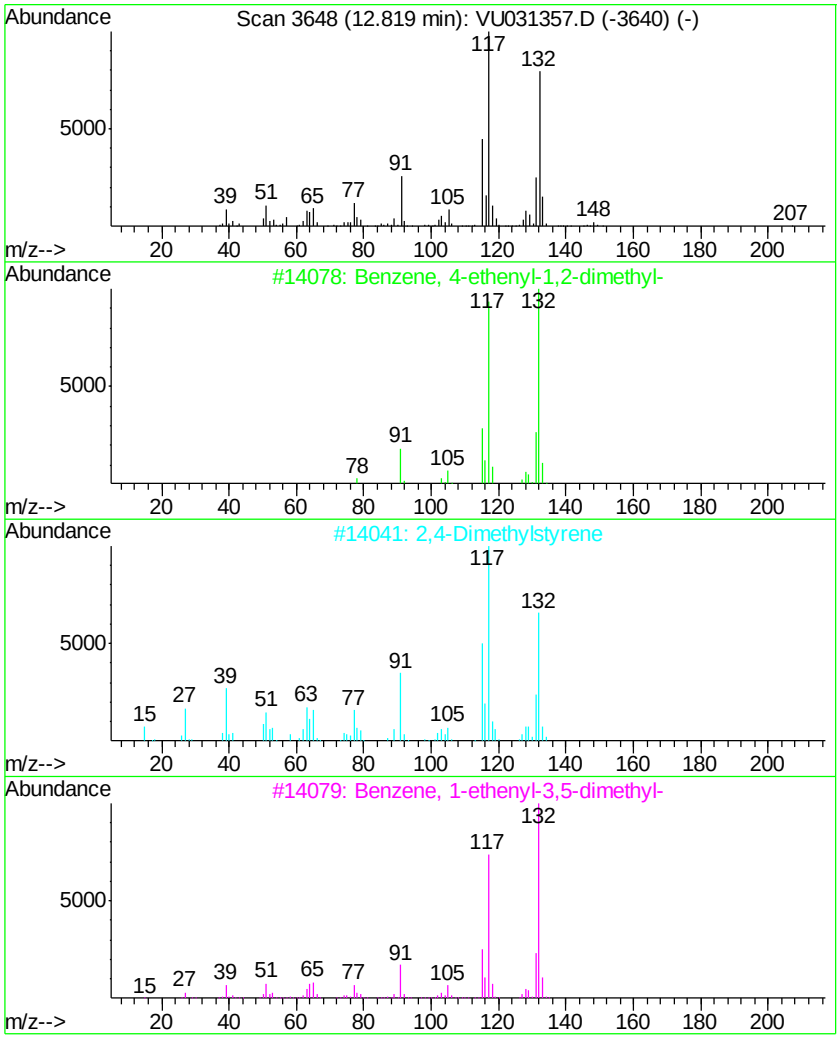
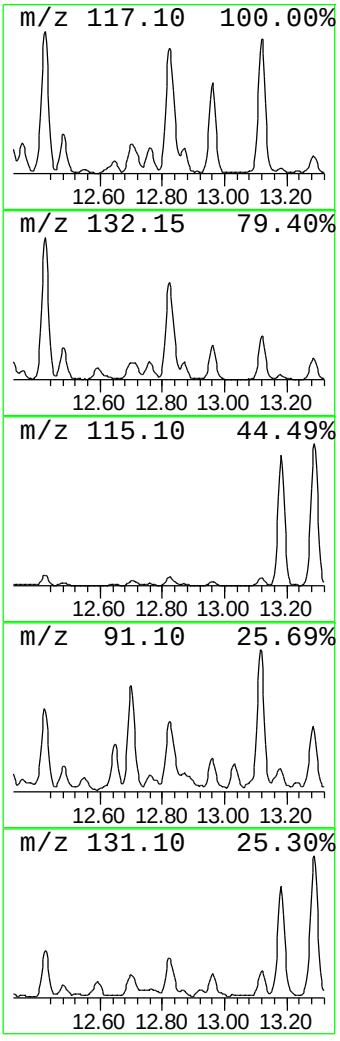
Peak Number 30 Benzene, 4-ethenyl-1,2-dime... Concentration Rank 30

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.82 | 38.40 ug/L | 1101560 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 4-ethenyl-1,2-dimethyl- | 132 | C10H12 | 027831-13-6 | 95 |
| 2 | 2,4-Dimethylstyrene | 132 | C10H12 | 002234-20-0 | 94 |
| 3 | Benzene, 1-ethenyl-3,5-dimethyl- | 132 | C10H12 | 005379-20-4 | 94 |
| 4 | Benzene, (2-methyl-1-propenyl)- | 132 | C10H12 | 000768-49-0 | 94 |
| 5 | Benzene, 2-butenyl- | 132 | C10H12 | 001560-06-1 | 94 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU042019\
Data File : VU031357.D
Acq On : 19 Apr 2019 14:28
Operator : JC/SP
Sample : K2402-05 5X
Misc : 5.04g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAHH7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM041719WMA.M
Quant Title : VOC Analysis

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

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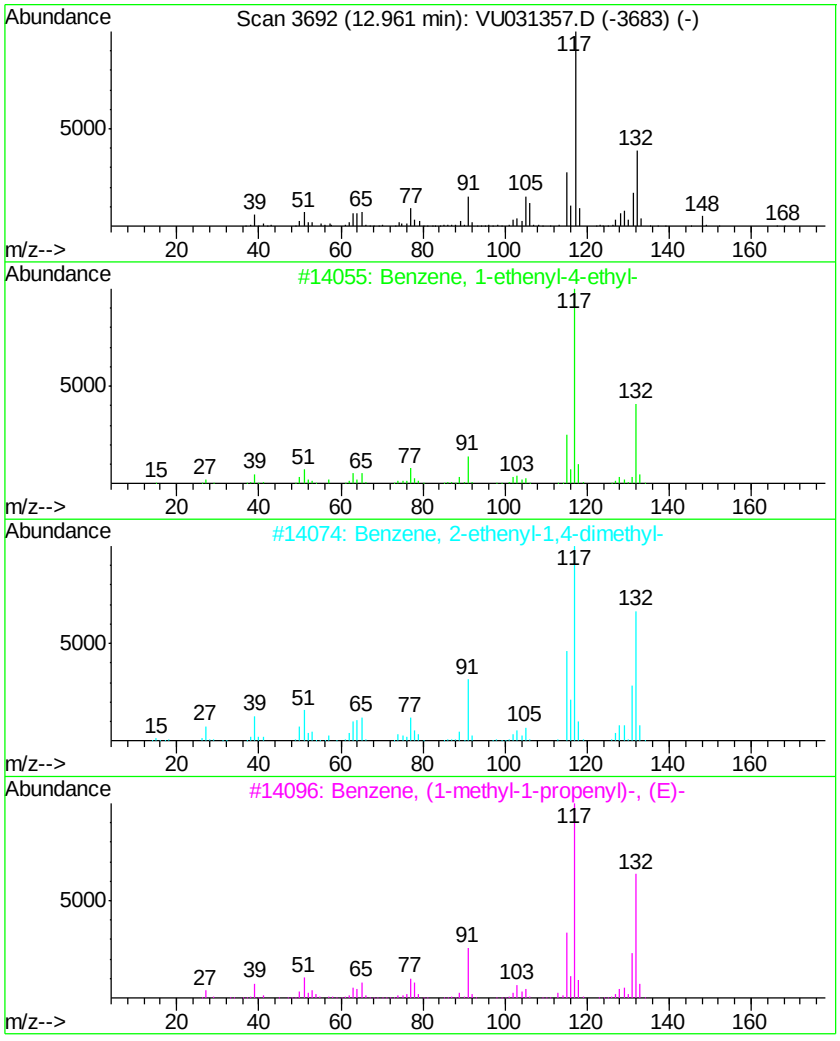
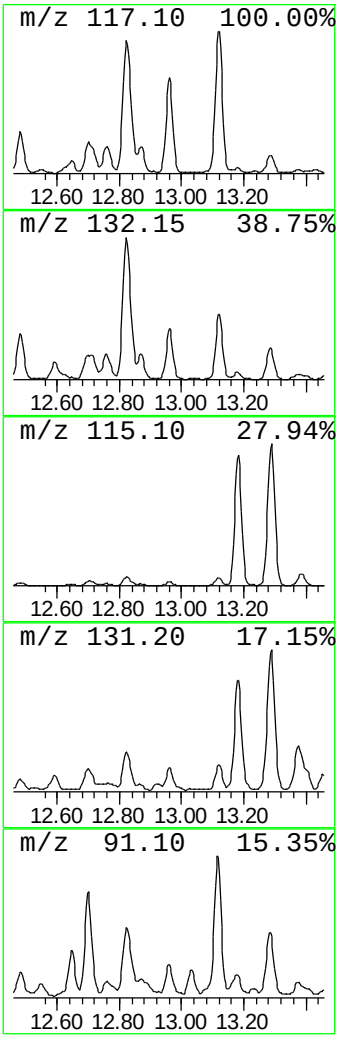
Peak Number 31 Benzene, 1-ethenyl-4-ethyl- Concentration Rank 42

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.96 | 17.82 ug/L | 511136 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-ethenyl-4-ethyl- | 132 | C10H12 | 003454-07-7 | 94 |
| 2 | Benzene, 2-ethenyl-1,4-dimethyl- | 132 | C10H12 | 002039-89-6 | 92 |
| 3 | Benzene, (1-methyl-1-propenyl)-,... | 132 | C10H12 | 000768-00-3 | 90 |
| 4 | 3-Phenylbut-1-ene | 132 | C10H12 | 000934-10-1 | 90 |
| 5 | Indan, 1-methyl- | 132 | C10H12 | 000767-58-8 | 90 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU042019\
Data File : VU031357.D
Acq On : 19 Apr 2019 14:28
Operator : JC/SP
Sample : K2402-05 5X
Misc : 5.04g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAHH7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM041719WMA.M
Quant Title : VOC Analysis

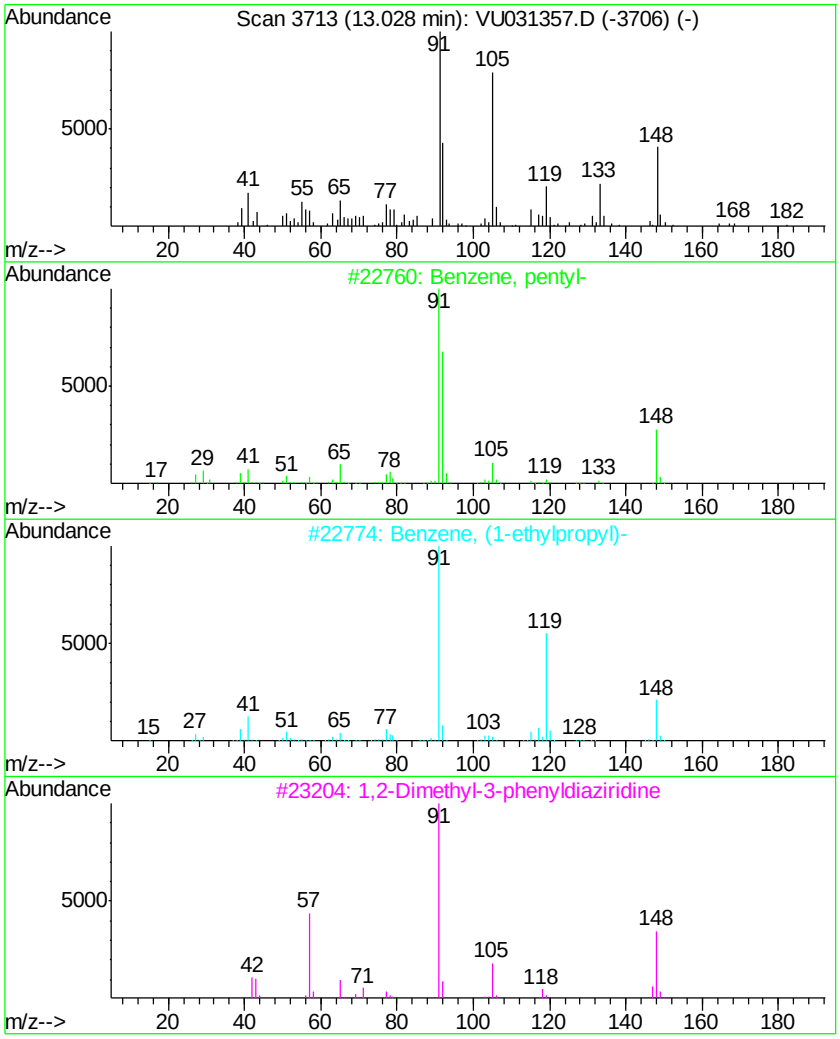
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

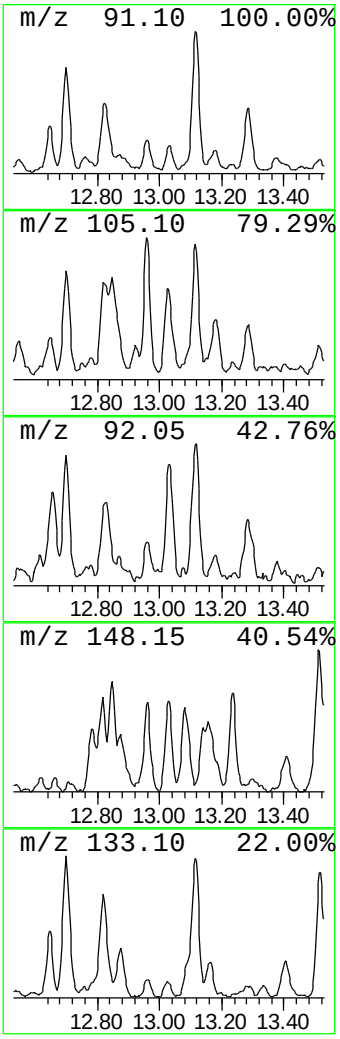
**********

Peak Number 32 unknown-01 Concentration Rank 69

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.03 | 3.91 ug/L | 112072 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, pentyl- | 148 | C11H16 | 000538-68-1 | 49 |
| 2 | Benzene, (1-ethylpropyl)- | 148 | C11H16 | 001196-58-3 | 38 |
| 3 | 1,2-Dimethyl-3-phenyldiaziridine | 148 | C9H12N2 | 051456-63-4 | 35 |
| 4 | cis-Pinen-3-ol | 152 | C10H16O | 1000292-85-2 | 27 |
| 5 | Benzene, (2-methylpropyl)- | 134 | C10H14 | 000538-93-2 | 22 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU042019\
Data File : VU031357.D
Acq On : 19 Apr 2019 14:28
Operator : JC/SP
Sample : K2402-05 5X
Misc : 5.04g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAHH7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM041719WMA.M
Quant Title : VOC Analysis

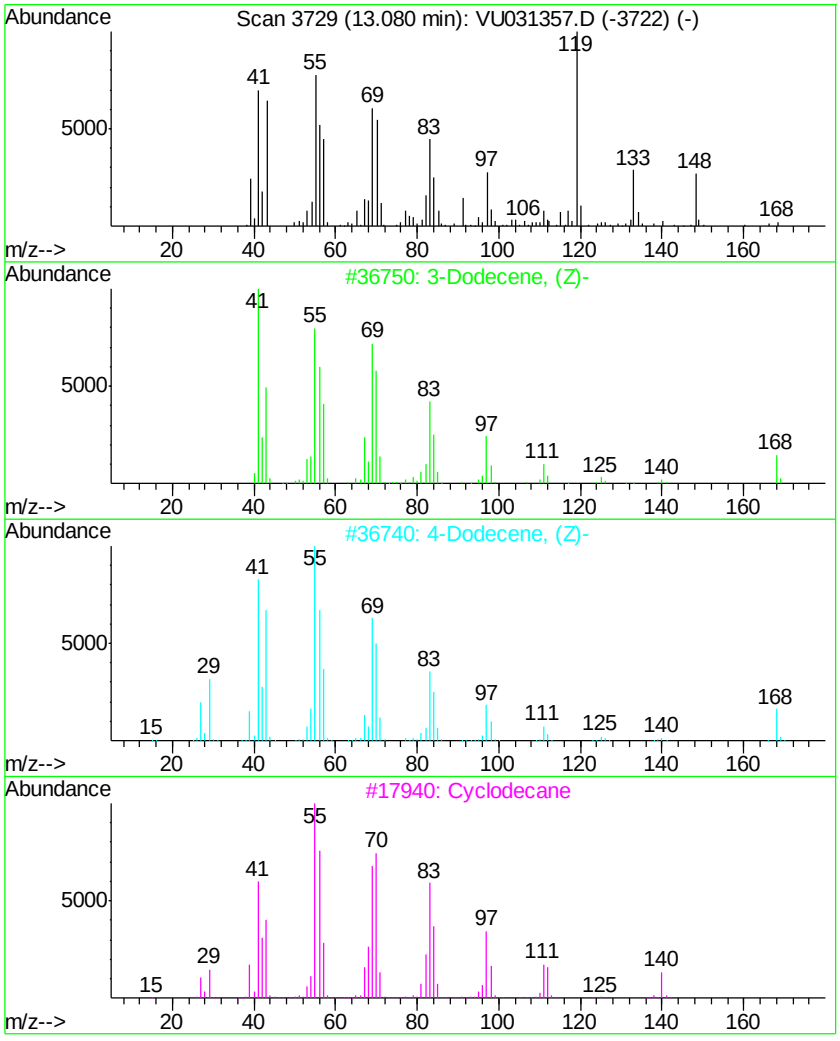
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

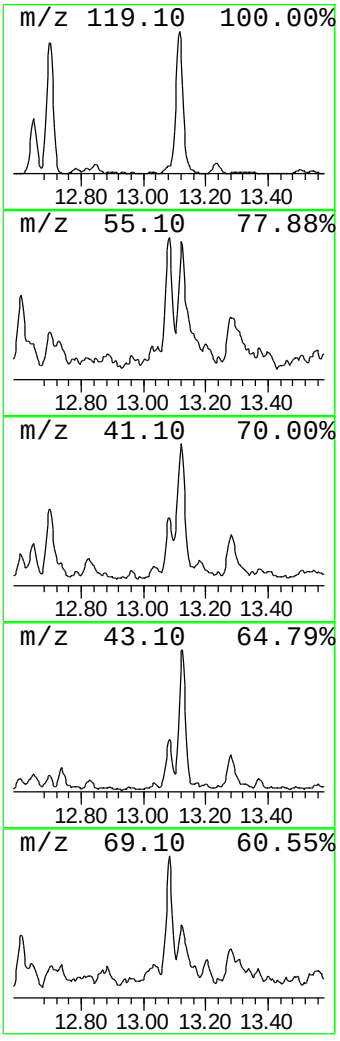
**********

Peak Number 33 (DEL) Alkane: Cyclic13.08 Concentration Rank 61

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.08 | 6.68 ug/L | 191664 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Dodecene, (Z)- | 168 | C12H24 | 007239-23-8 | 64 |
| 2 | 4-Dodecene, (Z)- | 168 | C12H24 | 007206-27-1 | 64 |
| 3 | Cyclodecane | 140 | C10H20 | 000293-96-9 | 64 |
| 4 | 3-Dodecene, (Z)- | 168 | C12H24 | 007239-23-8 | 50 |
| 5 | 4-Dodecene, (E)- | 168 | C12H24 | 007206-15-7 | 50 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU042019\
Data File : VU031357.D
Acq On : 19 Apr 2019 14:28
Operator : JC/SP
Sample : K2402-05 5X
Misc : 5.04g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAHH7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM041719WMA.M
Quant Title : VOC Analysis

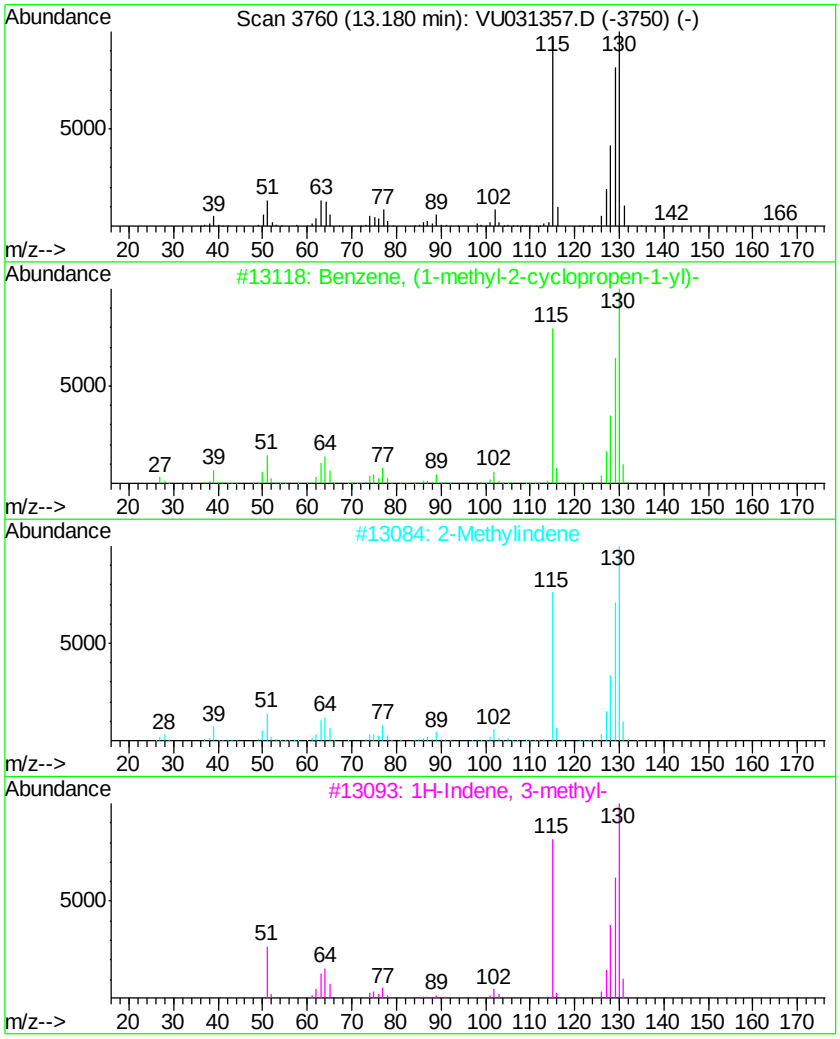
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

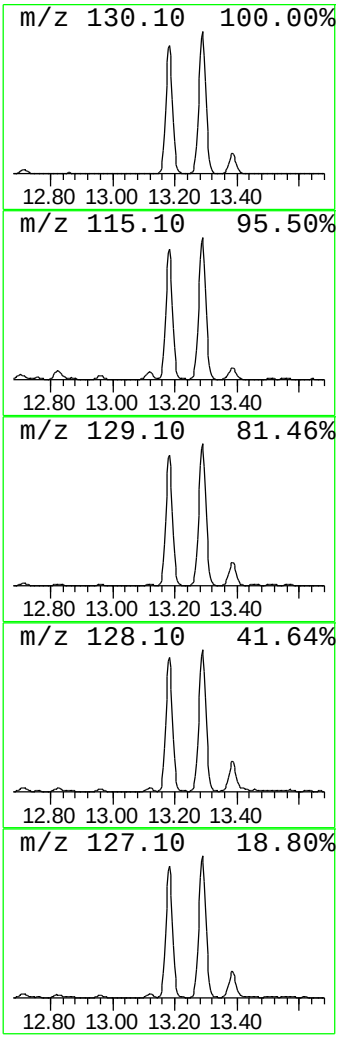
**********

Peak Number 35 Benzene, (1-methyl-2-cyclop... Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.18 | 233.61 ug/L | 6702060 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, (1-methyl-2-cyclopropen... | 130 | C10H10 | 065051-83-4 | 97 |
| 2 | 2-Methylindene | 130 | C10H10 | 002177-47-1 | 97 |
| 3 | 1H-Indene, 3-methyl- | 130 | C10H10 | 000767-60-2 | 95 |
| 4 | Benzene,1-methyl-1,2-propadienyl- | 130 | C10H10 | 022433-39-2 | 94 |
| 5 | 1H-Indene, 1-methyl- | 130 | C10H10 | 000767-59-9 | 94 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU042019\
Data File : VU031357.D
Acq On : 19 Apr 2019 14:28
Operator : JC/SP
Sample : K2402-05 5X
Misc : 5.04g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAHH7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM041719WMA.M
Quant Title : VOC Analysis

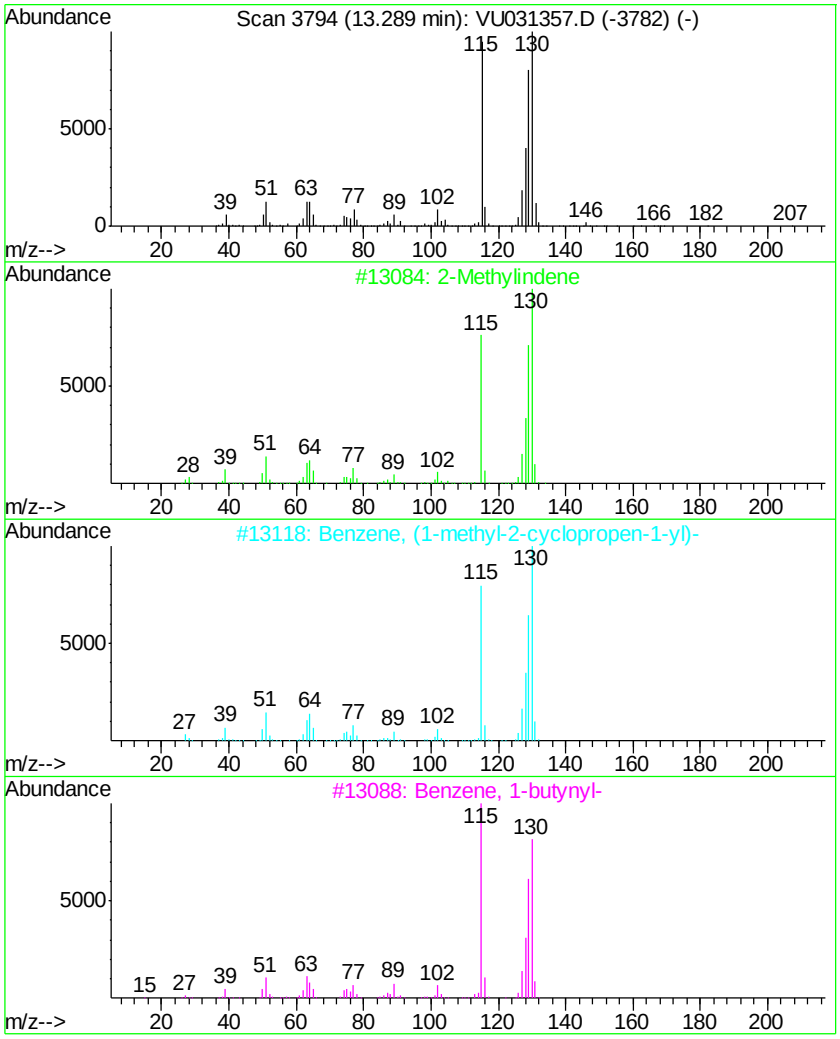
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

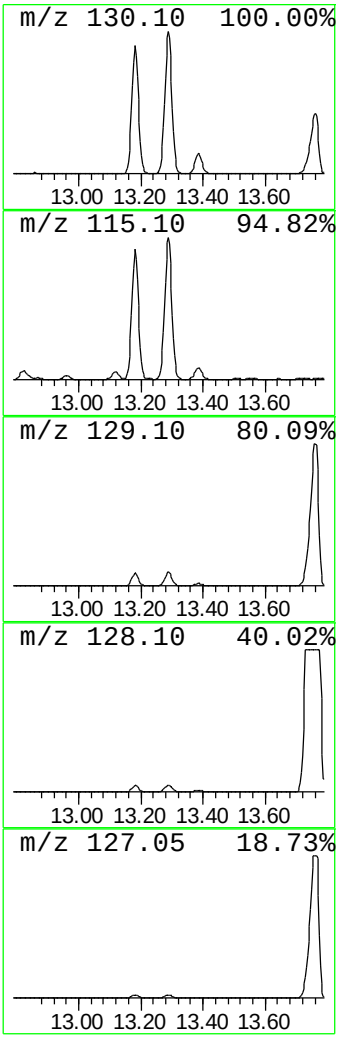
**********

Peak Number 36 2-Methylindene Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.29 | 285.72 ug/L | 8196990 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Methylindene | 130 | C10H10 | 002177-47-1 | 97 |
| 2 | Benzene, (1-methyl-2-cyclopropen... | 130 | C10H10 | 065051-83-4 | 96 |
| 3 | Benzene, 1-butynyl- | 130 | C10H10 | 000622-76-4 | 95 |
| 4 | 1,4-Dihydronaphthalene | 130 | C10H10 | 000612-17-9 | 95 |
| 5 | Benzene,1-methyl-1,2-propadienyl- | 130 | C10H10 | 022433-39-2 | 94 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU042019\
Data File : VU031357.D
Acq On : 19 Apr 2019 14:28
Operator : JC/SP
Sample : K2402-05 5X
Misc : 5.04g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAHH7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM041719WMA.M
Quant Title : VOC Analysis

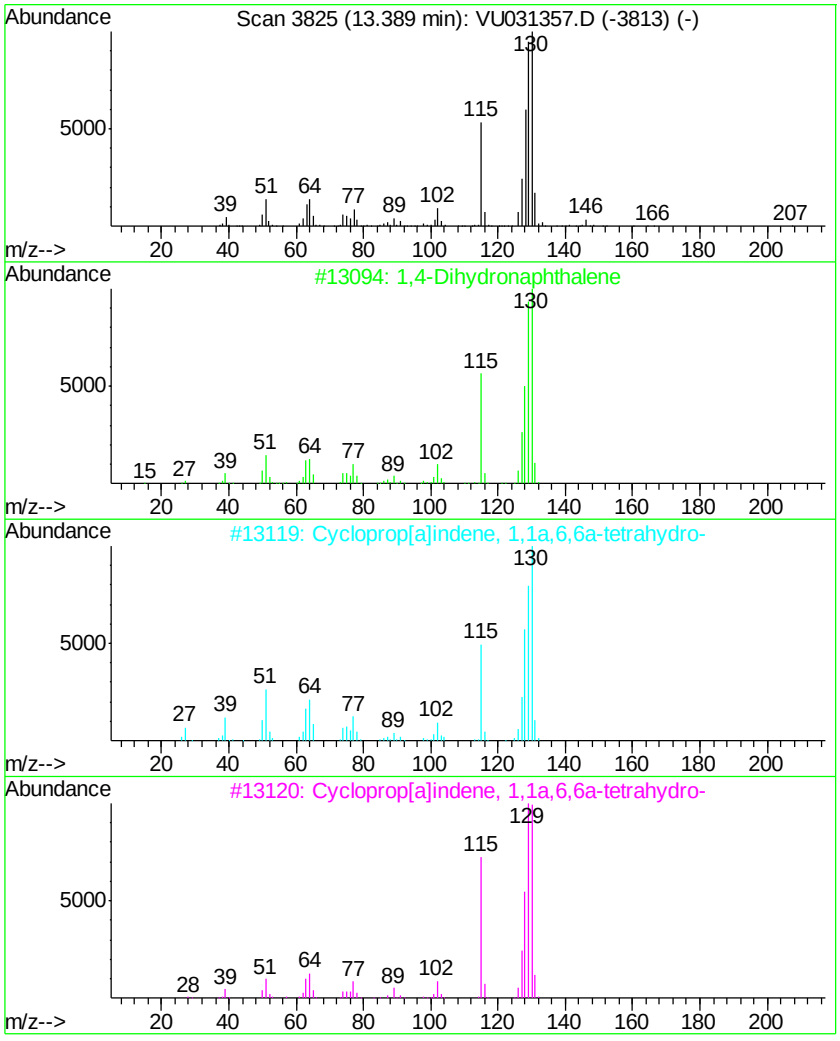
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

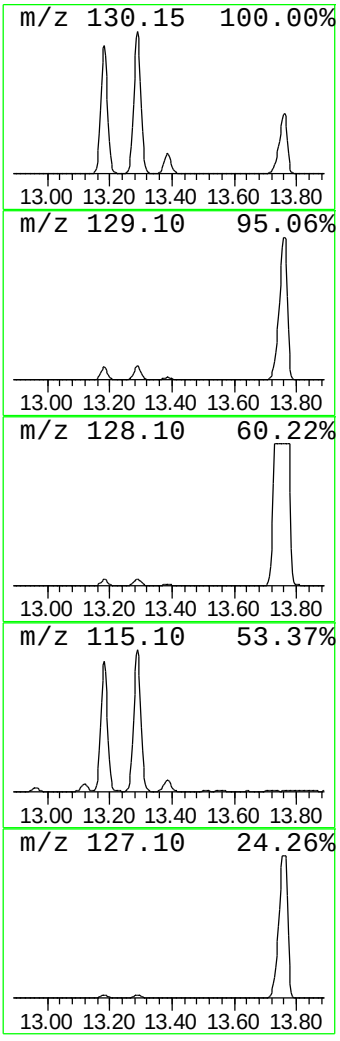
**********

Peak Number 37 1,4-Dihydronaphthalene Concentration Rank 28

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.39 | 44.64 ug/L | 1280790 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,4-Dihydronaphthalene | 130 | C10H10 | 000612-17-9 | 96 |
| 2 | Cycloprop[a]indene, 1,1a,6,6a-te... | 130 | C10H10 | 015677-15-3 | 95 |
| 3 | Cycloprop[a]indene, 1,1a,6,6a-te... | 130 | C10H10 | 015677-15-3 | 94 |
| 4 | Cycloprop[a]indene, 1,1a,6,6a-te... | 130 | C10H10 | 015677-15-3 | 93 |
| 5 | Naphthalene, 1,2-dihydro- | 130 | C10H10 | 000447-53-0 | 93 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU042019\
Data File : VU031357.D
Acq On : 19 Apr 2019 14:28
Operator : JC/SP
Sample : K2402-05 5X
Misc : 5.04g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAHH7

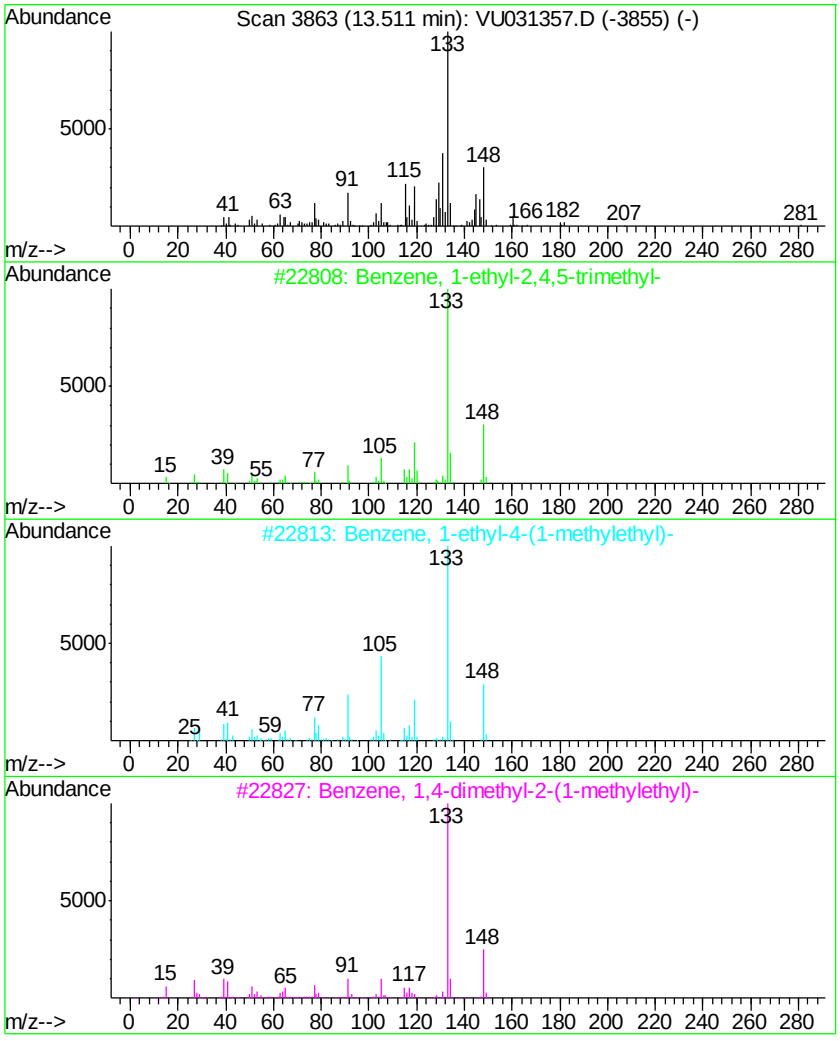
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM041719WMA.M
Quant Title : VOC Analysis

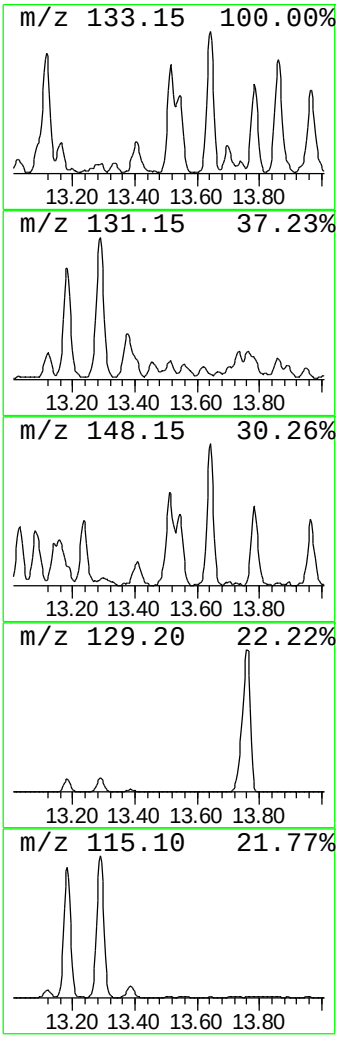
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 38 Benzene, 1-ethyl-2,4,5-trim... Concentration Rank 62

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.51 | 6.62 ug/L | 189806 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-ethyl-2,4,5-trimethyl- | 148 | C11H16 | 017851-27-3 | 64 |
| 2 | Benzene, 1-ethyl-4-(1-methylethyl)- | 148 | C11H16 | 004218-48-8 | 60 |
| 3 | Benzene, 1,4-dimethyl-2-(1-methy... | 148 | C11H16 | 004132-72-3 | 55 |
| 4 | Benzene, 1,3-dimethyl-5-(1-methy... | 148 | C11H16 | 004706-90-5 | 55 |
| 5 | Benzene, pentamethyl- | 148 | C11H16 | 000700-12-9 | 55 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU042019\
Data File : VU031357.D
Acq On : 19 Apr 2019 14:28
Operator : JC/SP
Sample : K2402-05 5X
Misc : 5.04g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAHH7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM041719WMA.M
Quant Title : VOC Analysis

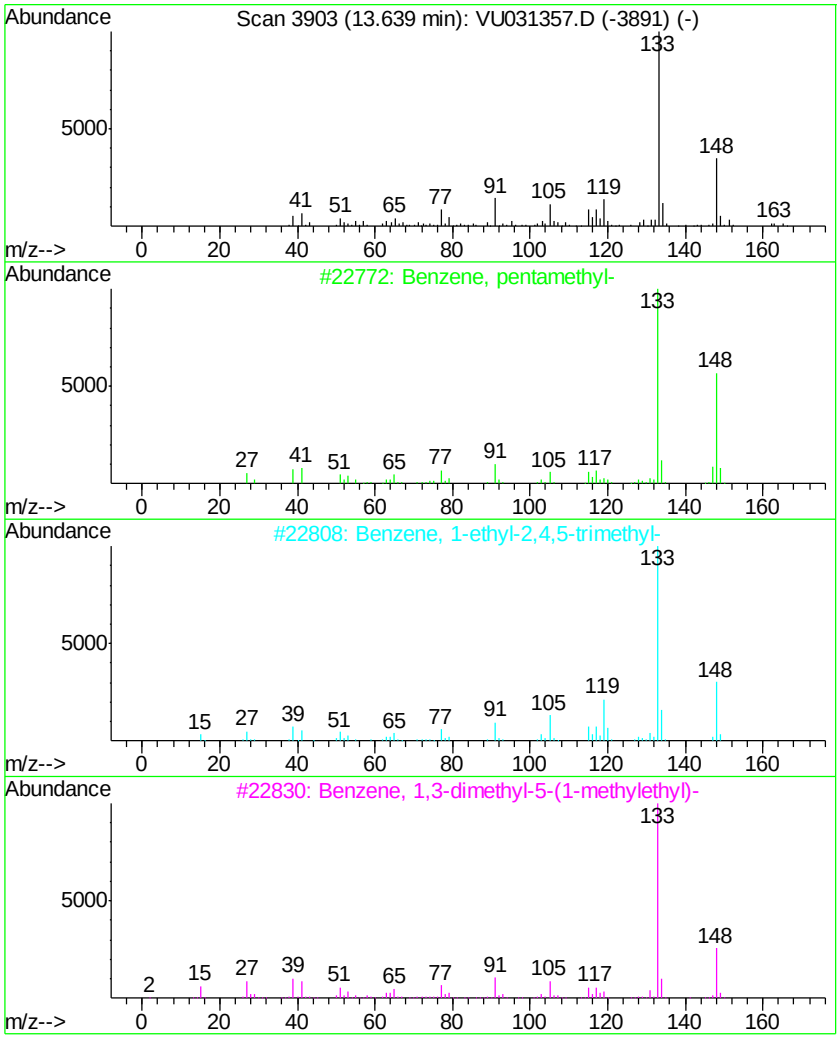
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

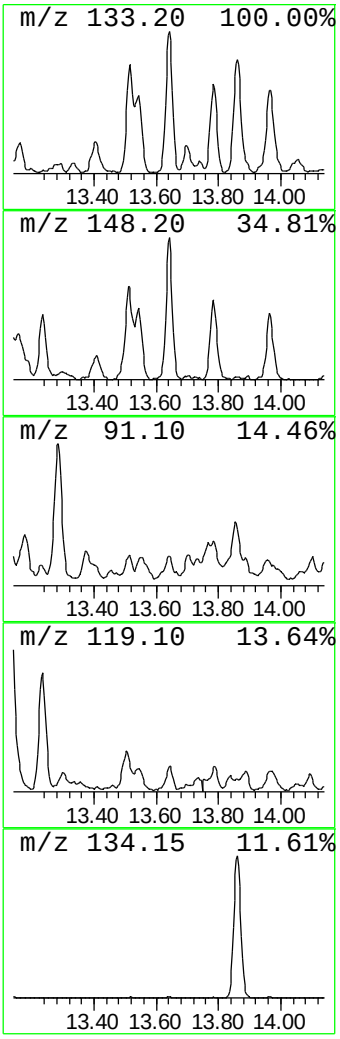
**********

Peak Number 39 Benzene, pentamethyl- Concentration Rank 58

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.64 | 7.91 ug/L | 226940 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, pentamethyl- | 148 | C11H16 | 000700-12-9 | 91 |
| 2 | Benzene, 1-ethyl-2,4,5-trimethyl- | 148 | C11H16 | 017851-27-3 | 91 |
| 3 | Benzene, 1,3-dimethyl-5-(1-methy... | 148 | C11H16 | 004706-90-5 | 90 |
| 4 | 3,4-Dimethylcumene | 148 | C11H16 | 1000370-34-1 | 90 |
| 5 | Benzene, pentamethyl- | 148 | C11H16 | 000700-12-9 | 87 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU042019\
Data File : VU031357.D
Acq On : 19 Apr 2019 14:28
Operator : JC/SP
Sample : K2402-05 5X
Misc : 5.04g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAHH7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM041719WMA.M
Quant Title : VOC Analysis

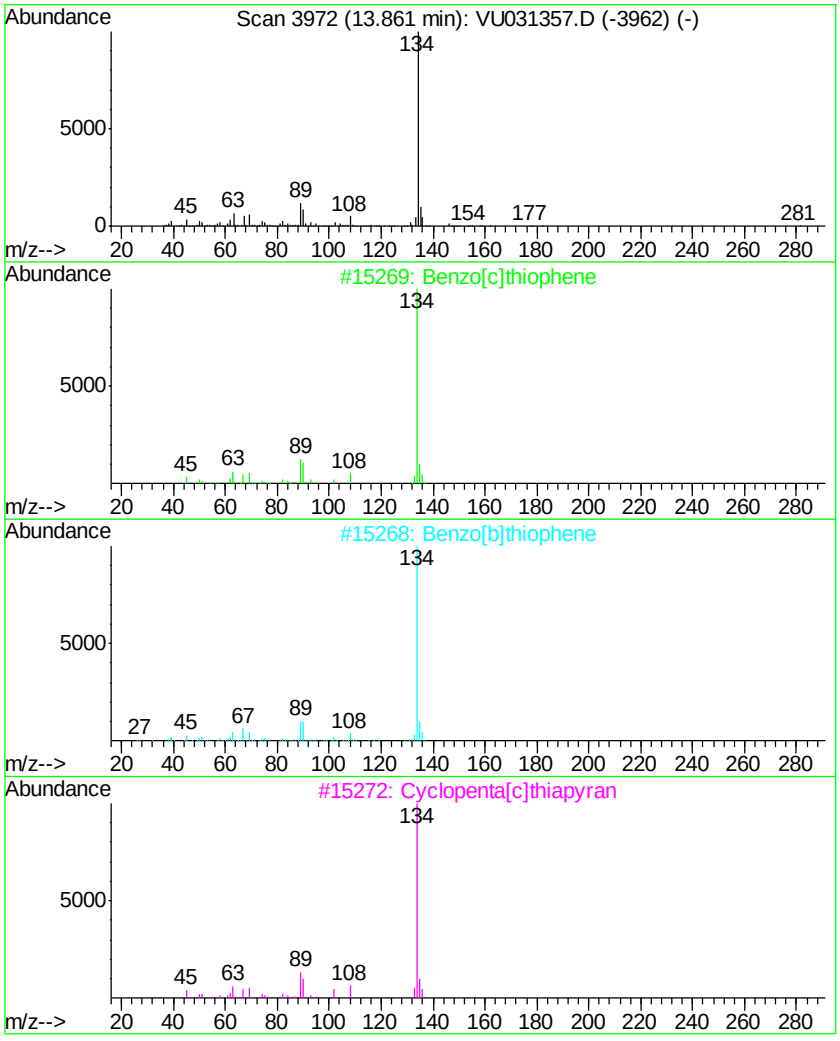
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

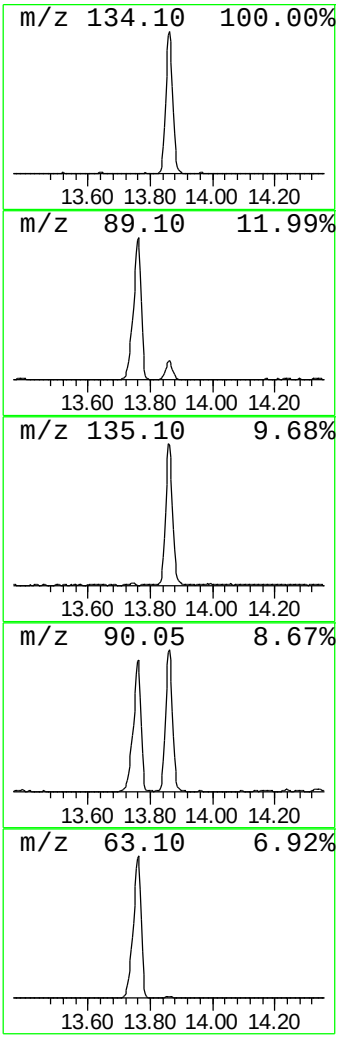
**********

Peak Number 41 Benzo[c]thiophene Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.86 | 84.14 ug/L | 2413760 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzo[c]thiophene | 134 | C8H6S | 000270-82-6 | 97 |
| 2 | Benzo[b]thiophene | 134 | C8H6S | 000095-15-8 | 95 |
| 3 | Cyclopenta[c]thiapyran | 134 | C8H6S | 000270-63-3 | 94 |
| 4 | Benzo[b]thiophene | 134 | C8H6S | 000095-15-8 | 93 |
| 5 | Benzo[b]thiophene | 134 | C8H6S | 000095-15-8 | 91 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU042019\
Data File : VU031357.D
Acq On : 19 Apr 2019 14:28
Operator : JC/SP
Sample : K2402-05 5X
Misc : 5.04g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAHH7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM041719WMA.M
Quant Title : VOC Analysis

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

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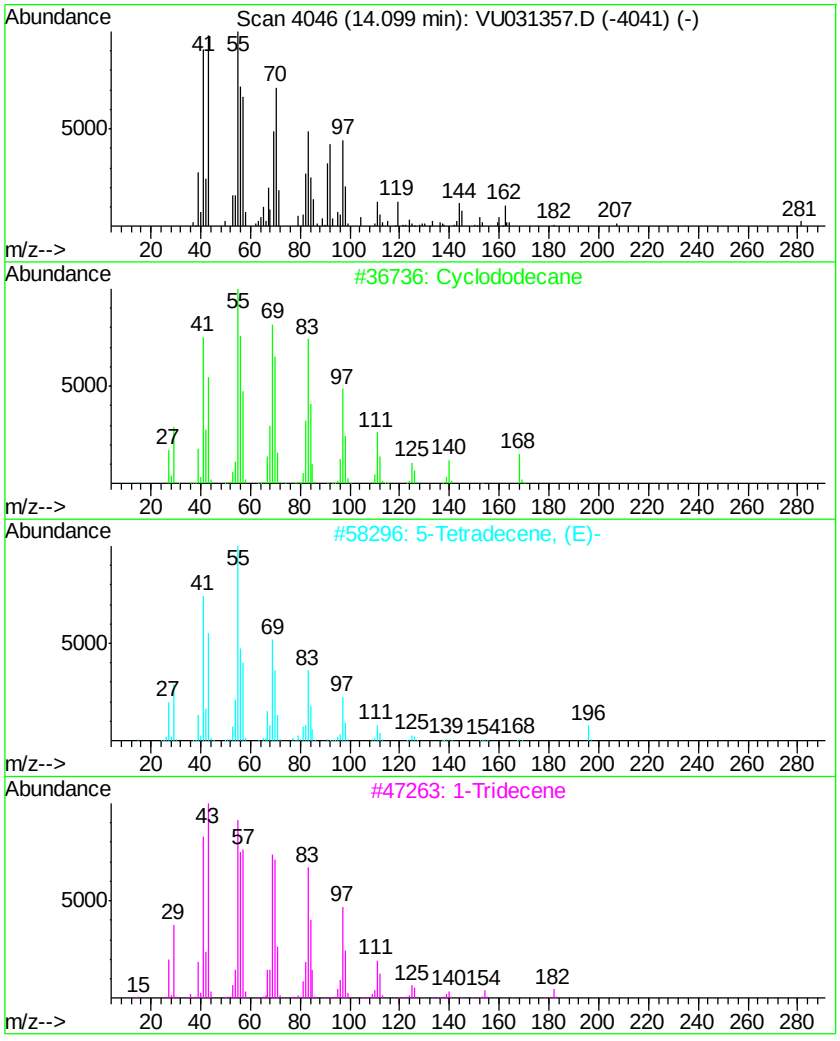
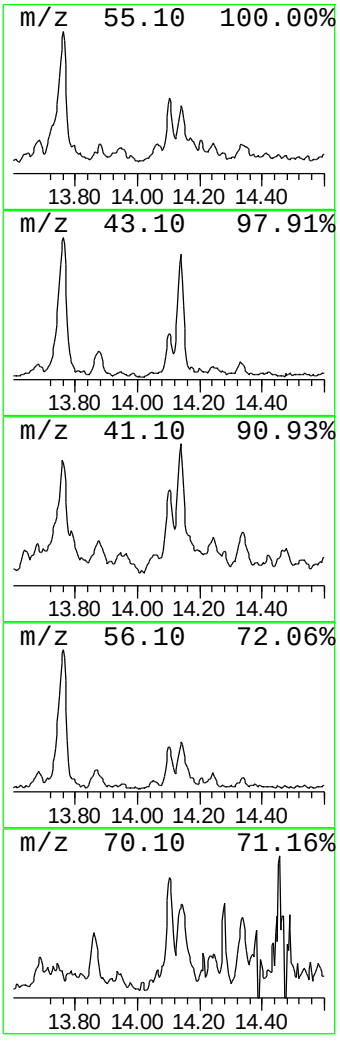
Peak Number 42 (DEL) Alkane: Cyclic14.10 Concentration Rank 77

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.10 | 3.27 ug/L | 93921 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclododecane | 168 | C12H24 | 000294-62-2 | 70 |
| 2 | 5-Tetradecene, (E)- | 196 | C14H28 | 041446-66-6 | 64 |
| 3 | 1-Tridecene | 182 | C13H26 | 002437-56-1 | 64 |
| 4 | Acetic acid, trifluoro-, dodecyl... | 282 | C14H25F3O2 | 006222-00-0 | 58 |
| 5 | 3-Dodecene, (Z)- | 168 | C12H24 | 007239-23-8 | 52 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU042019\
Data File : VU031357.D
Acq On : 19 Apr 2019 14:28
Operator : JC/SP
Sample : K2402-05 5X
Misc : 5.04g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAHH7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM041719WMA.M
Quant Title : VOC Analysis

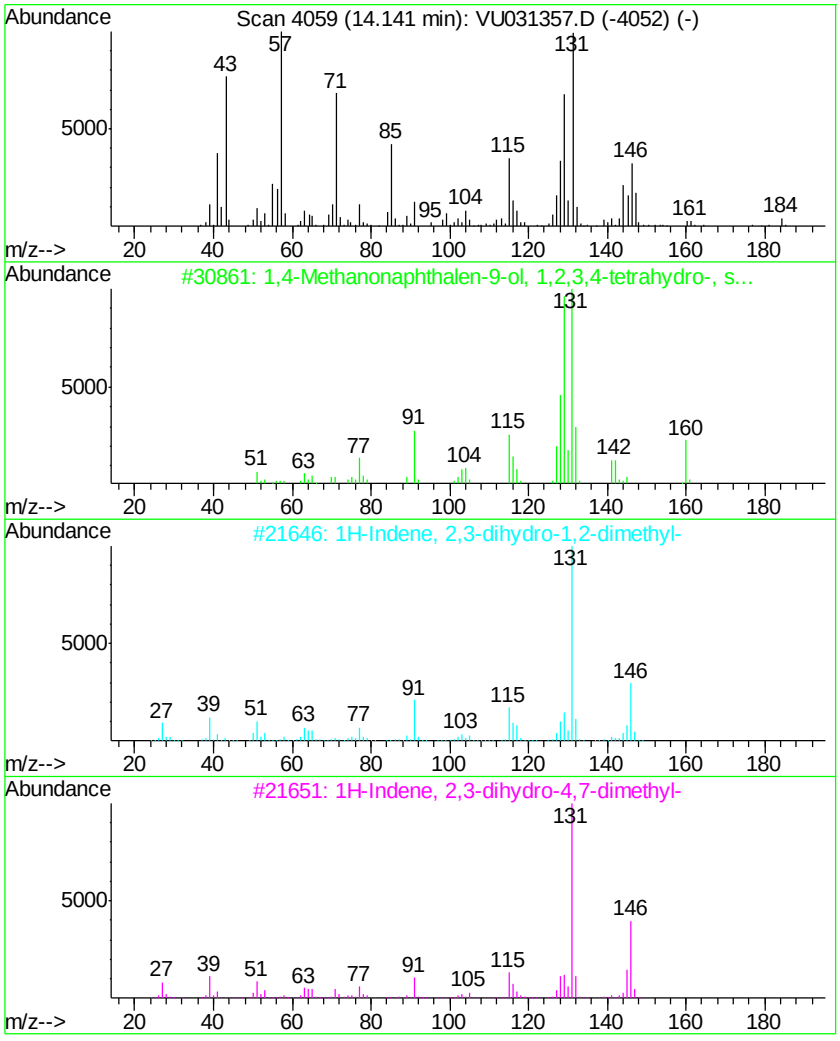
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

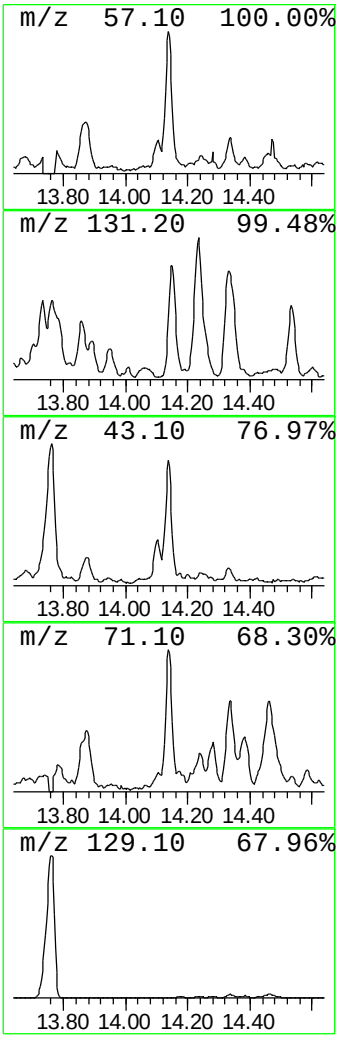
**********

Peak Number 43 unknown-02 Concentration Rank 49

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.14 | 13.89 ug/L | 398389 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,4-Methanonaphthalen-9-ol, 1,2,... | 160 | C11H12O | 001198-20-5 | 45 |
| 2 | 1H-Indene, 2,3-dihydro-1,2-dimet... | 146 | C11H14 | 017057-82-8 | 38 |
| 3 | 1H-Indene, 2,3-dihydro-4,7-dimet... | 146 | C11H14 | 006682-71-9 | 38 |
| 4 | Naphthalene, 1,2,3,4-tetrahydro-... | 146 | C11H14 | 002809-64-5 | 38 |
| 5 | 1H-Indene, 2,3-dihydro-4,7-dimet... | 146 | C11H14 | 006682-71-9 | 38 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU042019\
Data File : VU031357.D
Acq On : 19 Apr 2019 14:28
Operator : JC/SP
Sample : K2402-05 5X
Misc : 5.04g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAHH7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM041719WMA.M
Quant Title : VOC Analysis

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

| | | | | | Internal Standard | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| (DEL) Alkane: Str... | 2.74 | 3.8 | ug/L | 99221 | 1 | 5.88 | 1300770 | 50.0 |
| (DEL) Alkane: Cyc... | 4.09 | 5.4 | ug/L | 139662 | 1 | 5.88 | 1300770 | 50.0 |
| (DEL) Alkane: Str... | 5.54 | 3.7 | ug/L | 97165 | 1 | 5.88 | 1300770 | 50.0 |
| Benzene, 1-propenyl- | 10.50 | 3.5 | ug/L | 101099 | 3 | 11.48 | 1434440 | 50.0 |
| Benzene, propyl- | 10.58 | 9.3 | ug/L | 266107 | 3 | 11.48 | 1434440 | 50.0 |
| Benzene, 1-ethyl-... | 10.68 | 60.0 | ug/L | 1722250 | 3 | 11.48 | 1434440 | 50.0 |
| Benzene, 1,2,3-tr... | 10.77 | 72.5 | ug/L | 2081480 | 3 | 11.48 | 1434440 | 50.0 |
| Isobutyl nonyl ca... | 10.81 | 6.8 | ug/L | 193859 | 3 | 11.48 | 1434440 | 50.0 |
| Benzene, 1-ethyl-... | 10.97 | 15.8 | ug/L | 452826 | 3 | 11.48 | 1434440 | 50.0 |
| Benzene, 1-etheny... | 11.21 | 67.6 | ug/L | 1939880 | 3 | 11.48 | 1434440 | 50.0 |
| Benzene, 1-methyl... | 11.32 | 3.7 | ug/L | 107162 | 3 | 11.48 | 1434440 | 50.0 |
| Benzene, 2-propenyl- | 11.62 | 48.6 | ug/L | 1395360 | 3 | 11.48 | 1434440 | 50.0 |
| Indane | 11.76 | 43.2 | ug/L | 1238270 | 3 | 11.48 | 1434440 | 50.0 |
| Benzene, 1-methyl... | 11.81 | 8.2 | ug/L | 236036 | 3 | 11.48 | 1434440 | 50.0 |
| Indene | 11.98 | 681.1 | ug/L | 19539400 | 3 | 11.48 | 1434440 | 50.0 |
| Benzene, 1-ethyl-... | 12.14 | 10.4 | ug/L | 299410 | 3 | 11.48 | 1434440 | 50.0 |
| o-Cymene | 12.24 | 28.9 | ug/L | 827966 | 3 | 11.48 | 1434440 | 50.0 |
| Benzene, (1-methy... | 12.30 | 12.4 | ug/L | 355878 | 3 | 11.48 | 1434440 | 50.0 |
| Benzaldehyde, 4-(... | 12.35 | 3.8 | ug/L | 109768 | 3 | 11.48 | 1434440 | 50.0 |
| Benzene, (2-methy... | 12.42 | 38.2 | ug/L | 1095710 | 3 | 11.48 | 1434440 | 50.0 |
| 2,4-Dimethylstyrene | 12.48 | 10.5 | ug/L | 301800 | 3 | 11.48 | 1434440 | 50.0 |
| Benzene, 1-ethyl-... | 12.55 | 3.4 | ug/L | 98197 | 3 | 11.48 | 1434440 | 50.0 |
| (DEL) Alkane: Cyc... | 12.60 | 3.4 | ug/L | 96938 | 3 | 11.48 | 1434440 | 50.0 |
| Benzene, 1,2,4,5-... | 12.70 | 57.3 | ug/L | 1643890 | 3 | 11.48 | 1434440 | 50.0 |
| Benzene, 4-etheny... | 12.82 | 38.4 | ug/L | 1101560 | 3 | 11.48 | 1434440 | 50.0 |
| Benzene, 1-etheny... | 12.96 | 17.8 | ug/L | 511136 | 3 | 11.48 | 1434440 | 50.0 |
| unknown-01 | 13.03 | 3.9 | ug/L | 112072 | 3 | 11.48 | 1434440 | 50.0 |
| (DEL) Alkane: Cyc... | 13.08 | 6.7 | ug/L | 191664 | 3 | 11.48 | 1434440 | 50.0 |
| Benzene, (1-methy... | 13.18 | 233.6 | ug/L | 6702060 | 3 | 11.48 | 1434440 | 50.0 |
| 2-Methylindene | 13.29 | 285.7 | ug/L | 8196990 | 3 | 11.48 | 1434440 | 50.0 |
| 1,4-Dihydronaphth... | 13.39 | 44.6 | ug/L | 1280790 | 3 | 11.48 | 1434440 | 50.0 |
| Benzene, 1-ethyl-... | 13.51 | 6.6 | ug/L | 189806 | 3 | 11.48 | 1434440 | 50.0 |
| Benzene, pentamet... | 13.64 | 7.9 | ug/L | 226940 | 3 | 11.48 | 1434440 | 50.0 |
| Benzo[c]thiophene | 13.86 | 84.1 | ug/L | 2413760 | 3 | 11.48 | 1434440 | 50.0 |
| (DEL) Alkane: Cyc... | 14.10 | 3.3 | ug/L | 93921 | 3 | 11.48 | 1434440 | 50.0 |
| unknown-02 | 14.14 | 13.9 | ug/L | 398389 | 3 | 11.48 | 1434440 | 50.0 |