

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU042319\  
 Data File : VU031420.D  
 Acq On : 23 Apr 2019 03:31  
 Operator : JC/SP  
 Sample : K2481-06 50X  
 Misc : 5.09g/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 GAHW1

## Integration Parameters: LSCINT.P

Integrator: RTE  
 Smoothing : OFF  
 Sampling : 1  
 Start Thrs: 0.2  
 Stop Thrs : 0

Filtering: 5  
 Min Area: 0 % of largest Peak  
 Max Peaks: 100  
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
 Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM042319WMA.M  
 Title : VOC Analysis

Signal : TIC

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 1.180       | 24            | 28          | 36           | rVB3     | 15429          | 15736         | 0.08%           | 0.018%        |
| 2         | 1.395       | 88            | 95          | 108          | rVB      | 333427         | 357792        | 1.79%           | 0.404%        |
| 3         | 1.682       | 175           | 184         | 198          | rBV      | 264796         | 337217        | 1.69%           | 0.381%        |
| 4         | 2.270       | 356           | 367         | 382          | rVB      | 559346         | 850801        | 4.26%           | 0.962%        |
| 5         | 2.469       | 425           | 429         | 430          | rBV3     | 827            | 687           | 0.00%           | 0.001%        |
| 6         | 2.502       | 437           | 439         | 443          | rVB4     | 1088           | 740           | 0.00%           | 0.001%        |
| 7         | 2.698       | 493           | 500         | 506          | rBV5     | 3342           | 5092          | 0.03%           | 0.006%        |
| 8         | 2.813       | 533           | 536         | 541          | rBV4     | 989            | 1006          | 0.01%           | 0.001%        |
| 9         | 2.974       | 582           | 586         | 587          | rBV2     | 1044           | 688           | 0.00%           | 0.001%        |
| 10        | 2.993       | 587           | 592         | 605          | rVB4     | 2288           | 3631          | 0.02%           | 0.004%        |
| 11        | 3.145       | 634           | 639         | 647          | rBV3     | 891            | 1284          | 0.01%           | 0.001%        |
| 12        | 3.296       | 681           | 686         | 690          | rBV4     | 1503           | 1631          | 0.01%           | 0.002%        |
| 13        | 3.672       | 797           | 803         | 806          | rBV4     | 786            | 897           | 0.00%           | 0.001%        |
| 14        | 3.987       | 897           | 901         | 907          | rVB3     | 774            | 863           | 0.00%           | 0.001%        |
| 15        | 4.190       | 952           | 964         | 1007         | rBV      | 176581         | 590354        | 2.95%           | 0.667%        |
| 16        | 4.643       | 1088          | 1105        | 1132         | rBV      | 369634         | 868874        | 4.35%           | 0.982%        |
| 17        | 4.836       | 1162          | 1165        | 1168         | rVB3     | 1167           | 745           | 0.00%           | 0.001%        |
| 18        | 4.974       | 1205          | 1208        | 1211         | rBV4     | 1086           | 826           | 0.00%           | 0.001%        |
| 19        | 5.083       | 1238          | 1242        | 1247         | rVB2     | 947            | 957           | 0.00%           | 0.001%        |
| 20        | 5.334       | 1297          | 1320        | 1359         | rBV2     | 760694         | 2272627       | 11.37%          | 2.569%        |
| 21        | 5.595       | 1398          | 1401        | 1405         | rBV3     | 789            | 763           | 0.00%           | 0.001%        |
| 22        | 5.614       | 1405          | 1407        | 1412         | rVB4     | 1338           | 903           | 0.00%           | 0.001%        |
| 23        | 5.669       | 1419          | 1424        | 1429         | rBV7     | 1268           | 1659          | 0.01%           | 0.002%        |
| 24        | 5.881       | 1473          | 1490        | 1532         | rBV      | 789795         | 1655225       | 8.28%           | 1.871%        |
| 25        | 6.128       | 1565          | 1567        | 1570         | rVB4     | 1631           | 764           | 0.00%           | 0.001%        |
| 26        | 6.186       | 1572          | 1585        | 1599         | rBV6     | 58127          | 123047        | 0.62%           | 0.139%        |
| 27        | 6.324       | 1614          | 1628        | 1654         | rBV      | 493404         | 1026630       | 5.14%           | 1.161%        |
| 28        | 6.816       | 1771          | 1781        | 1783         | rBV3     | 1436           | 1490          | 0.01%           | 0.002%        |
| 29        | 7.087       | 1861          | 1865        | 1869         | rVB4     | 966            | 745           | 0.00%           | 0.001%        |
| 30        | 7.112       | 1869          | 1873        | 1879         | rBV3     | 1173           | 1446          | 0.01%           | 0.002%        |
| 31        | 7.225       | 1896          | 1908        | 1931         | rBV      | 264223         | 500257        | 2.50%           | 0.565%        |
| 32        | 7.437       | 1970          | 1974        | 1975         | rBV2     | 888            | 699           | 0.00%           | 0.001%        |
| 33        | 7.562       | 1998          | 2013        | 2048         | rBV      | 1002851        | 1883860       | 9.43%           | 2.130%        |
| 34        | 7.849       | 2091          | 2102        | 2130         | rBV      | 170998         | 320515        | 1.60%           | 0.362%        |

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 Max Peaks: 100  
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
 Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM042319WMA.M  
 Title : VOC Analysis

|    |        |      |      |      |      |         |         |       |        |
|----|--------|------|------|------|------|---------|---------|-------|--------|
| 35 | 8.225  | 2211 | 2219 | 2227 | rBV9 | 5563    | 9136    | 0.05% | 0.010% |
| 36 | 8.312  | 2233 | 2246 | 2283 | rBV  | 704194  | 1363940 | 6.83% | 1.542% |
| 37 | 8.697  | 2361 | 2366 | 2367 | rBV2 | 1135    | 869     | 0.00% | 0.001% |
| 38 | 9.086  | 2474 | 2487 | 2520 | rBV  | 1111972 | 1943675 | 9.73% | 2.197% |
| 39 | 9.373  | 2566 | 2576 | 2591 | rBV  | 112991  | 201077  | 1.01% | 0.227% |
| 40 | 9.778  | 2691 | 2702 | 2720 | rBV3 | 43733   | 92542   | 0.46% | 0.105% |
| 41 | 9.874  | 2728 | 2732 | 2734 | rBV4 | 1121    | 779     | 0.00% | 0.001% |
| 42 | 9.964  | 2756 | 2760 | 2767 | rVV6 | 1088    | 1444    | 0.01% | 0.002% |
| 43 | 10.093 | 2796 | 2800 | 2804 | rBV4 | 1192    | 1069    | 0.01% | 0.001% |
| 44 | 10.167 | 2814 | 2823 | 2833 | rBV2 | 12945   | 21472   | 0.11% | 0.024% |
| 45 | 10.305 | 2862 | 2866 | 2870 | rBV6 | 1526    | 1426    | 0.01% | 0.002% |
| 46 | 10.373 | 2882 | 2887 | 2890 | rBV4 | 1388    | 1126    | 0.01% | 0.001% |
| 47 | 10.427 | 2892 | 2904 | 2928 | rVV  | 651532  | 1064078 | 5.33% | 1.203% |
| 48 | 10.588 | 2943 | 2954 | 2970 | rBV  | 25161   | 41223   | 0.21% | 0.047% |
| 49 | 10.678 | 2970 | 2982 | 3000 | rBV  | 269636  | 596944  | 2.99% | 0.675% |
| 50 | 10.768 | 3000 | 3010 | 3021 | rVV  | 164574  | 260228  | 1.30% | 0.294% |
| 51 | 10.929 | 3057 | 3060 | 3062 | rBV2 | 1353    | 712     | 0.00% | 0.001% |
| 52 | 10.971 | 3063 | 3073 | 3077 | rBV  | 61220   | 96302   | 0.48% | 0.109% |
| 53 | 11.144 | 3109 | 3127 | 3139 | rBV  | 507254  | 799868  | 4.00% | 0.904% |
| 54 | 11.212 | 3139 | 3148 | 3157 | rVV  | 443638  | 683352  | 3.42% | 0.772% |
| 55 | 11.263 | 3158 | 3164 | 3177 | rVB  | 143417  | 224869  | 1.13% | 0.254% |
| 56 | 11.395 | 3197 | 3205 | 3206 | rBV7 | 4533    | 4865    | 0.02% | 0.005% |
| 57 | 11.424 | 3210 | 3214 | 3220 | rVV  | 16585   | 21583   | 0.11% | 0.024% |
| 58 | 11.479 | 3220 | 3231 | 3249 | rVV  | 1118605 | 1833736 | 9.18% | 2.073% |
| 59 | 11.569 | 3250 | 3259 | 3268 | rVV2 | 144791  | 229111  | 1.15% | 0.259% |
| 60 | 11.627 | 3269 | 3277 | 3290 | rVB  | 61821   | 102878  | 0.51% | 0.116% |
| 61 | 11.771 | 3308 | 3322 | 3329 | rBV4 | 63943   | 141641  | 0.71% | 0.160% |
| 62 | 11.855 | 3338 | 3348 | 3366 | rVB  | 1018688 | 1741106 | 8.71% | 1.968% |
| 63 | 11.977 | 3376 | 3386 | 3395 | rBV  | 272538  | 435977  | 2.18% | 0.493% |
| 64 | 12.144 | 3429 | 3438 | 3441 | rBV  | 50566   | 72873   | 0.36% | 0.082% |
| 65 | 12.218 | 3454 | 3461 | 3465 | rBV2 | 81065   | 114724  | 0.57% | 0.130% |
| 66 | 12.302 | 3479 | 3487 | 3498 | rVB2 | 94756   | 165814  | 0.83% | 0.187% |
| 67 | 12.421 | 3515 | 3524 | 3535 | rVV  | 391152  | 584054  | 2.92% | 0.660% |
| 68 | 12.482 | 3535 | 3543 | 3557 | rVB3 | 115871  | 185444  | 0.93% | 0.210% |
| 69 | 12.549 | 3558 | 3564 | 3572 | rVB2 | 20783   | 30765   | 0.15% | 0.035% |
| 70 | 12.607 | 3578 | 3582 | 3585 | rBV3 | 7796    | 7959    | 0.04% | 0.009% |
| 71 | 12.646 | 3586 | 3594 | 3602 | rVB2 | 90392   | 132669  | 0.66% | 0.150% |

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If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
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Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM042319WMA.M  
 Title : VOC Analysis

|     |        |      |      |      |      |          |          |         |         |
|-----|--------|------|------|------|------|----------|----------|---------|---------|
| 72  | 12.700 | 3602 | 3611 | 3624 | rBV2 | 192754   | 408452   | 2.04%   | 0.462%  |
| 73  | 12.819 | 3639 | 3648 | 3659 | rBV2 | 273286   | 443295   | 2.22%   | 0.501%  |
| 74  | 12.961 | 3684 | 3692 | 3702 | rVB2 | 70290    | 104217   | 0.52%   | 0.118%  |
| 75  | 13.080 | 3723 | 3729 | 3730 | rBV4 | 18302    | 17311    | 0.09%   | 0.020%  |
| 76  | 13.115 | 3732 | 3740 | 3750 | rVV3 | 275693   | 435419   | 2.18%   | 0.492%  |
| 77  | 13.180 | 3750 | 3760 | 3773 | rVB  | 967935   | 1473131  | 7.37%   | 1.665%  |
| 78  | 13.286 | 3782 | 3793 | 3808 | rVV  | 1053871  | 1742437  | 8.72%   | 1.970%  |
| 79  | 13.385 | 3811 | 3824 | 3838 | rVB4 | 106271   | 260744   | 1.31%   | 0.295%  |
| 80  | 13.504 | 3856 | 3861 | 3868 | rVB4 | 36821    | 44607    | 0.22%   | 0.050%  |
| 81  | 13.736 | 3917 | 3933 | 3947 | rBV  | 10886131 | 16876857 | 84.47%  | 19.078% |
| 82  | 14.138 | 4051 | 4058 | 4064 | rBV3 | 72075    | 114714   | 0.57%   | 0.130%  |
| 83  | 14.279 | 4096 | 4102 | 4110 | rVB  | 91875    | 128603   | 0.64%   | 0.145%  |
| 84  | 14.334 | 4110 | 4119 | 4127 | rBV2 | 235490   | 407138   | 2.04%   | 0.460%  |
| 85  | 14.459 | 4149 | 4158 | 4175 | rVB  | 206992   | 447679   | 2.24%   | 0.506%  |
| 86  | 14.581 | 4189 | 4196 | 4209 | rVB2 | 87512    | 144069   | 0.72%   | 0.163%  |
| 87  | 14.726 | 4234 | 4241 | 4259 | rVB2 | 147201   | 267754   | 1.34%   | 0.303%  |
| 88  | 14.816 | 4262 | 4269 | 4274 | rVV  | 72479    | 100379   | 0.50%   | 0.113%  |
| 89  | 14.871 | 4274 | 4286 | 4313 | rVB  | 12898910 | 19979176 | 100.00% | 22.585% |
| 90  | 15.054 | 4331 | 4343 | 4364 | rBV  | 5545650  | 8732376  | 43.71%  | 9.871%  |
| 91  | 15.604 | 4504 | 4514 | 4526 | rBV  | 380414   | 606009   | 3.03%   | 0.685%  |
| 92  | 15.794 | 4565 | 4573 | 4581 | rBV  | 482108   | 705760   | 3.53%   | 0.798%  |
| 93  | 15.909 | 4597 | 4609 | 4629 | rBV  | 2286668  | 3941322  | 19.73%  | 4.455%  |
| 94  | 16.054 | 4643 | 4654 | 4661 | rBV  | 1996385  | 3148019  | 15.76%  | 3.559%  |
| 95  | 16.186 | 4686 | 4695 | 4707 | rBV  | 466841   | 748233   | 3.75%   | 0.846%  |
| 96  | 16.279 | 4708 | 4724 | 4747 | rVB  | 545369   | 1314649  | 6.58%   | 1.486%  |
| 97  | 16.427 | 4761 | 4770 | 4782 | rBV2 | 234088   | 372469   | 1.86%   | 0.421%  |
| 98  | 16.520 | 4789 | 4799 | 4819 | rVB2 | 601409   | 1142285  | 5.72%   | 1.291%  |
| 99  | 17.015 | 4948 | 4953 | 4970 | rVB2 | 102217   | 182150   | 0.91%   | 0.206%  |
| 100 | 17.163 | 4993 | 4999 | 5010 | rVB3 | 81309    | 132796   | 0.66%   | 0.150%  |

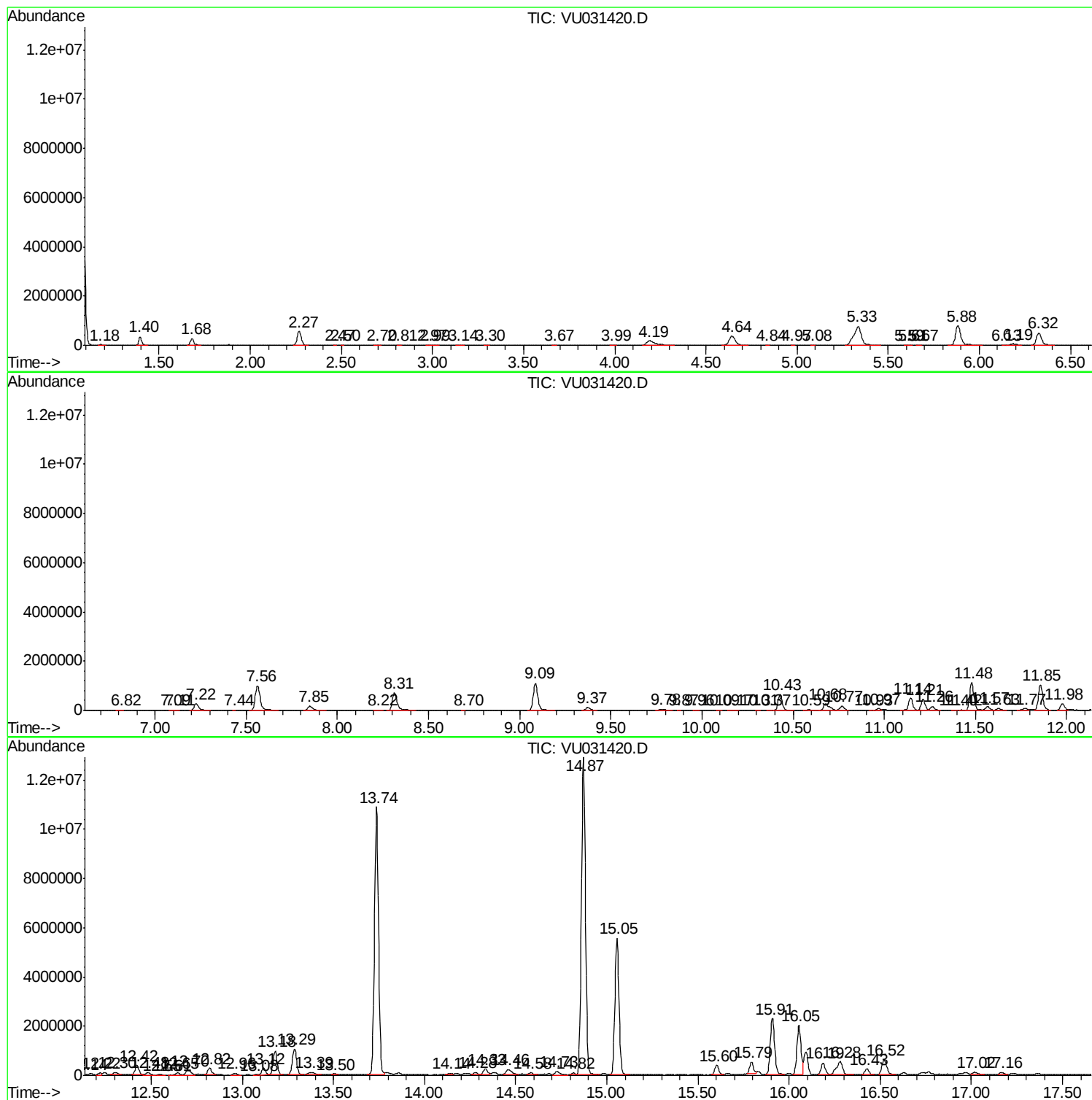
Sum of corrected areas: 88463831

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Instrument :  
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ClientSampleId :  
GAHW1

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM042319WMA.M  
Quant Title : VOC Analysis

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



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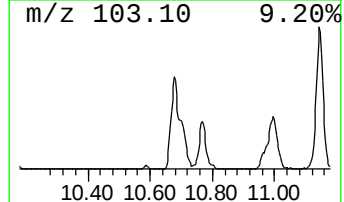
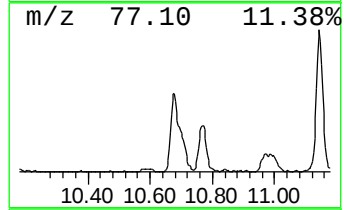
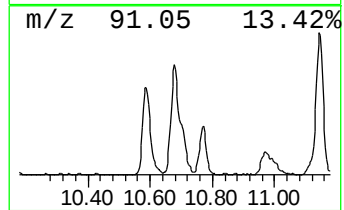
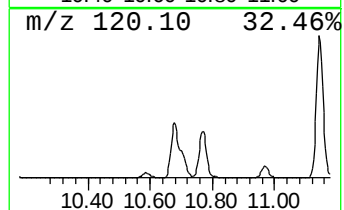
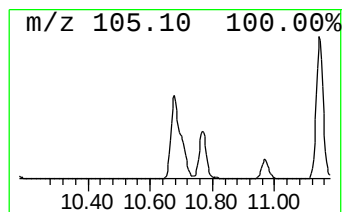
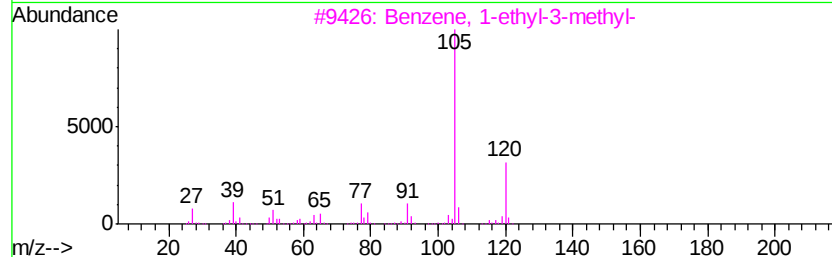
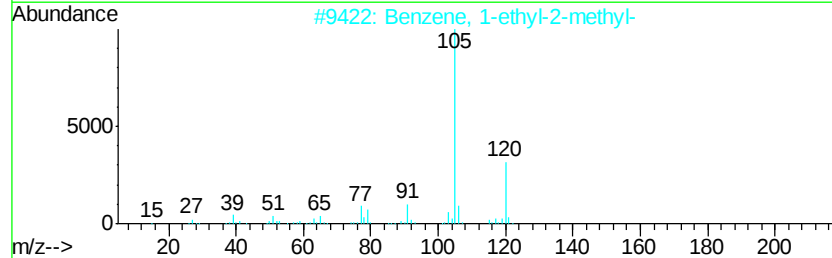
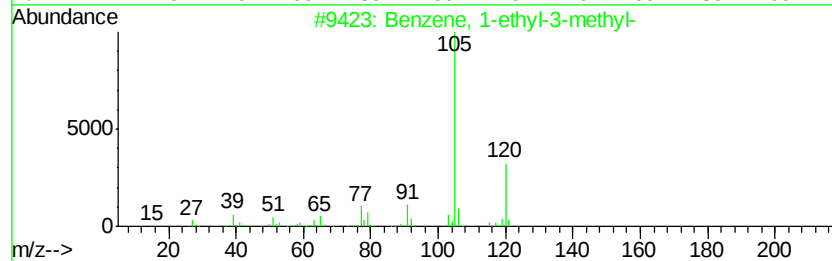
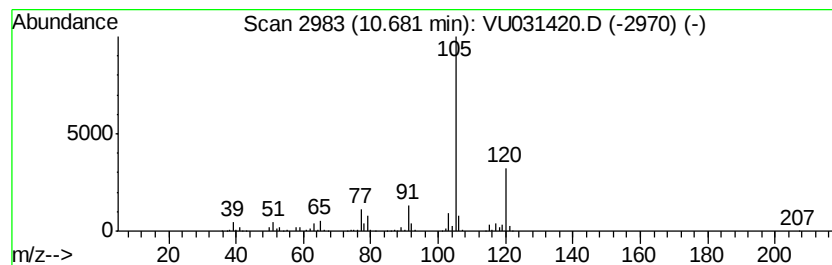
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM042319WMA.M  
Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 2 Benzene, 1-ethyl-3-methyl- Concentration Rank 15

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 10.68 | 16.28 ug/L | 596944 | 1,4-Dichlorobenzene-d4 | 11.48 |

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



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Quant Title : VOC Analysis

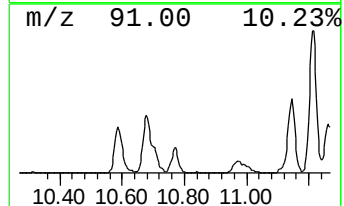
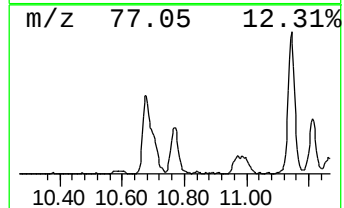
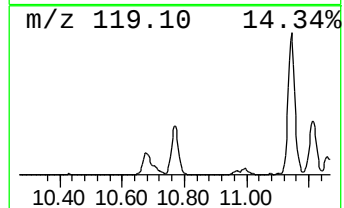
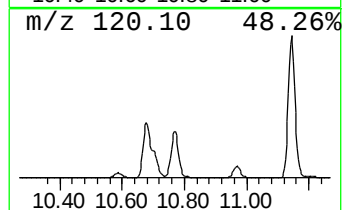
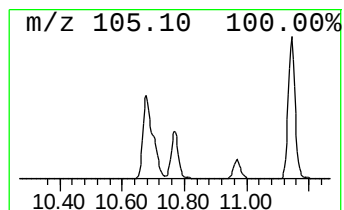
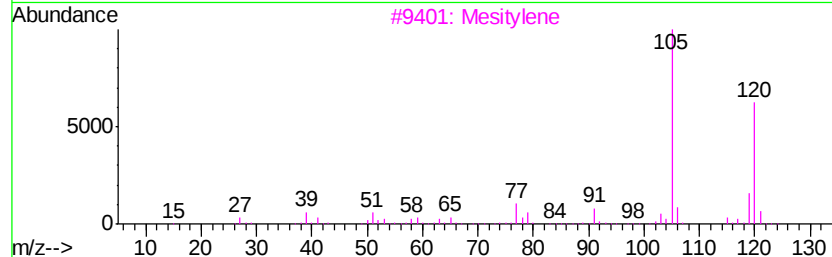
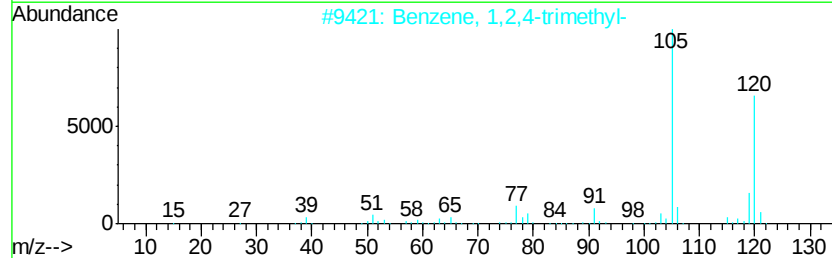
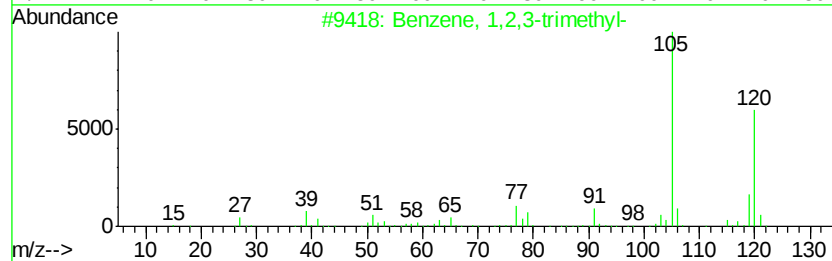
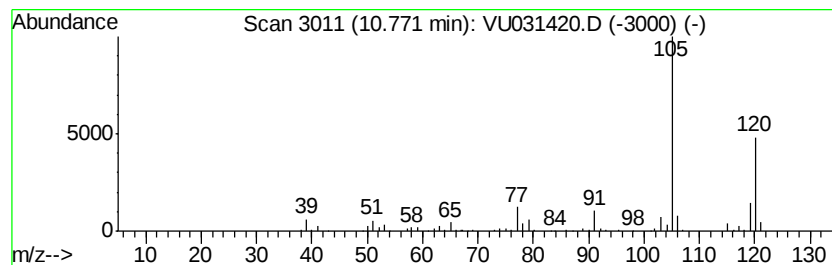
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 Benzene, 1,2,3-trimethyl- Concentration Rank 27

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 10.77 | 7.10 ug/L | 260228 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# | of | Tentative ID              | MW  | MolForm | CAS#        | Qual |
|------|----|---------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1,2,3-trimethyl- | 120 | C9H12   | 000526-73-8 | 97   |
| 2    |    | Benzene, 1,2,4-trimethyl- | 120 | C9H12   | 000095-63-6 | 95   |
| 3    |    | Mesitylene                | 120 | C9H12   | 000108-67-8 | 94   |
| 4    |    | Benzene, 1,2,3-trimethyl- | 120 | C9H12   | 000526-73-8 | 94   |
| 5    |    | Benzene, 1,2,4-trimethyl- | 120 | C9H12   | 000095-63-6 | 91   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU042319\  
Data File : VU031420.D  
Acq On : 23 Apr 2019 03:31  
Operator : JC/SP  
Sample : K2481-06 50X  
Misc : 5.09g/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 29 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
GAHW1

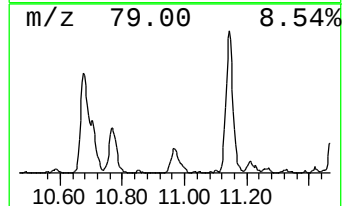
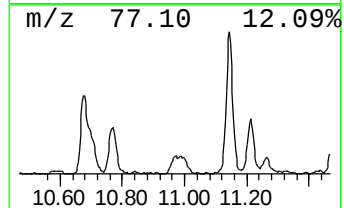
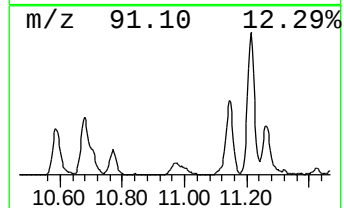
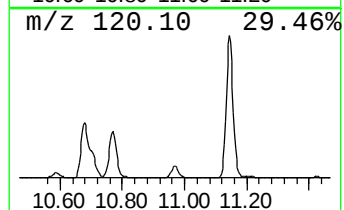
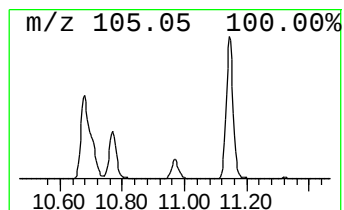
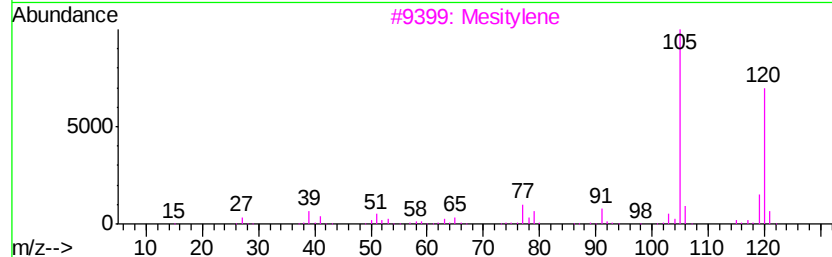
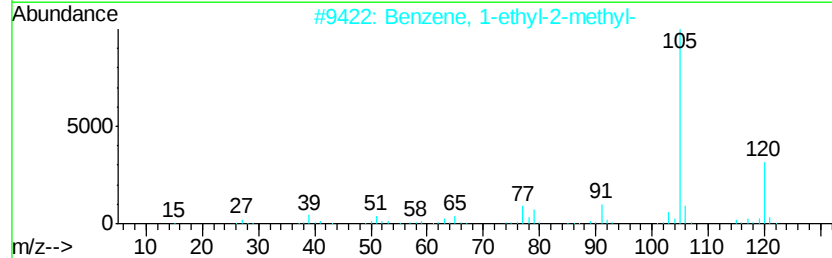
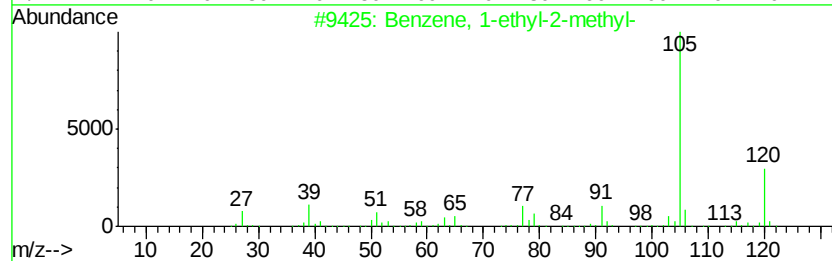
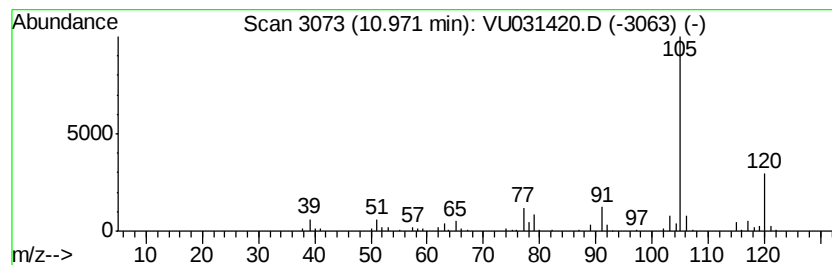
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Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 4 Benzene, 1-ethyl-2-methyl- Concentration Rank 43

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 10.97 | 2.63 ug/L | 96302 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# | of | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1-ethyl-2-methyl- | 120 | C9H12   | 000611-14-3 | 94   |
| 2    |    | Benzene, 1-ethyl-2-methyl- | 120 | C9H12   | 000611-14-3 | 91   |
| 3    |    | Mesitylene                 | 120 | C9H12   | 000108-67-8 | 91   |
| 4    |    | Benzene, 1-ethyl-4-methyl- | 120 | C9H12   | 000622-96-8 | 91   |
| 5    |    | Benzene, 1-ethyl-3-methyl- | 120 | C9H12   | 000620-14-4 | 91   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU042319\  
Data File : VU031420.D  
Acq On : 23 Apr 2019 03:31  
Operator : JC/SP  
Sample : K2481-06 50X  
Misc : 5.09g/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 29 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
GAHW1

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM042319WMA.M  
Quant Title : VOC Analysis

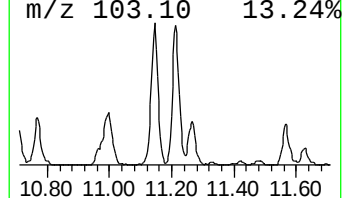
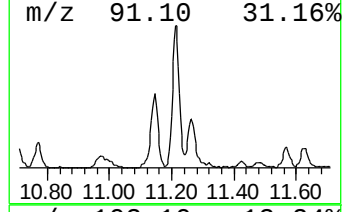
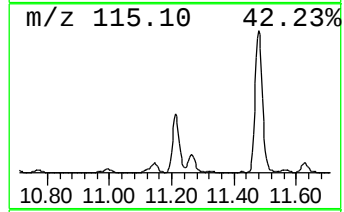
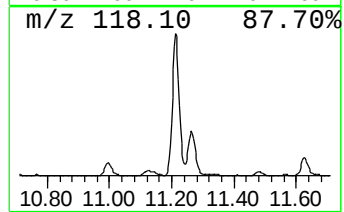
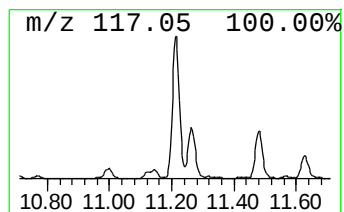
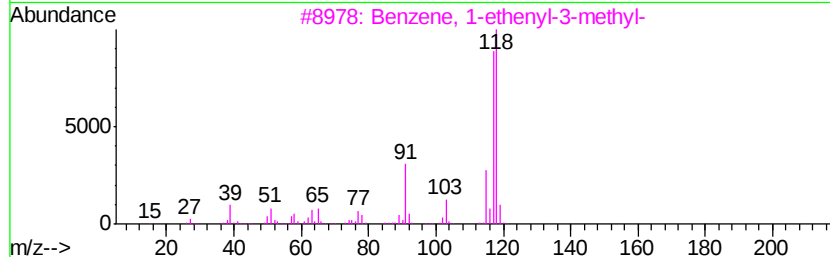
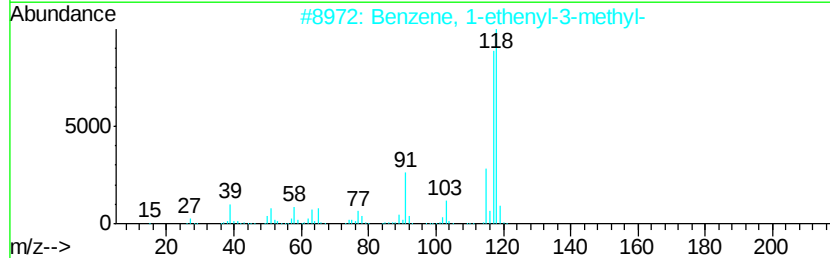
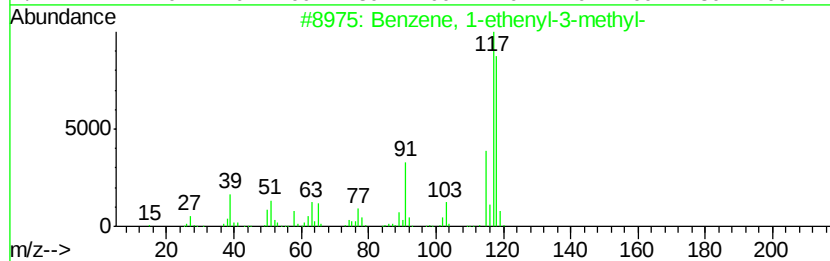
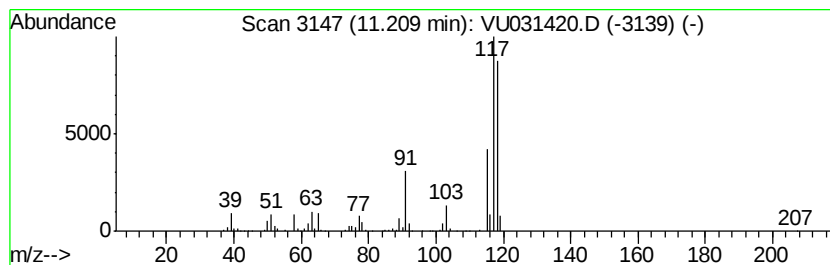
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 6 Benzene, 1-ethenyl-3-methyl- Concentration Rank 13

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 11.21 | 18.63 ug/L | 683352 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# | of | Tentative ID                 | MW  | MolForm | CAS#        | Qual |
|------|----|------------------------------|-----|---------|-------------|------|
| 1    | 5  | 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-ethenyl-4-methyl- | 118 | C9H10   | 000622-97-9 | 95   |
| 5    |    | Benzene, 1-ethenyl-2-methyl- | 118 | C9H10   | 000611-15-4 | 94   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU042319\  
Data File : VU031420.D  
Acq On : 23 Apr 2019 03:31  
Operator : JC/SP  
Sample : K2481-06 50X  
Misc : 5.09µ/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 29 Sample Multiplier: 1

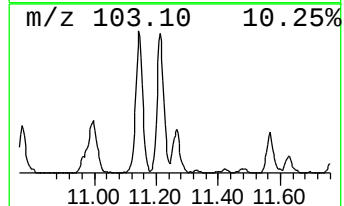
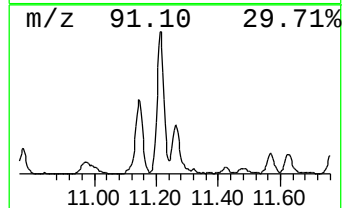
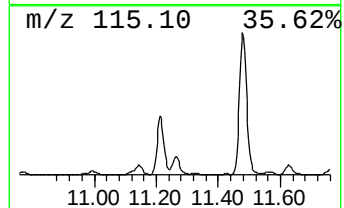
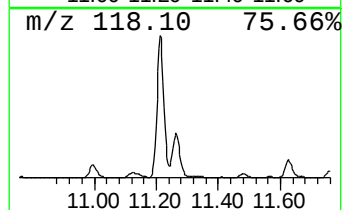
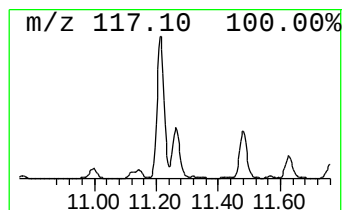
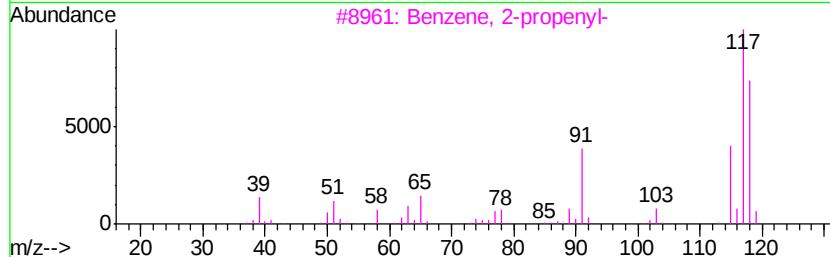
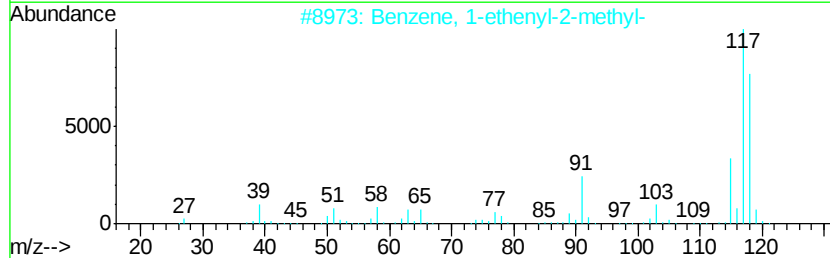
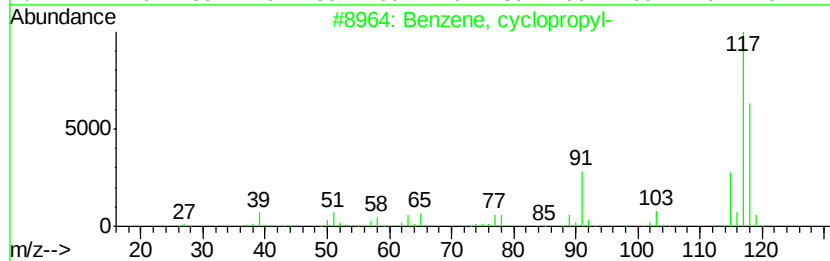
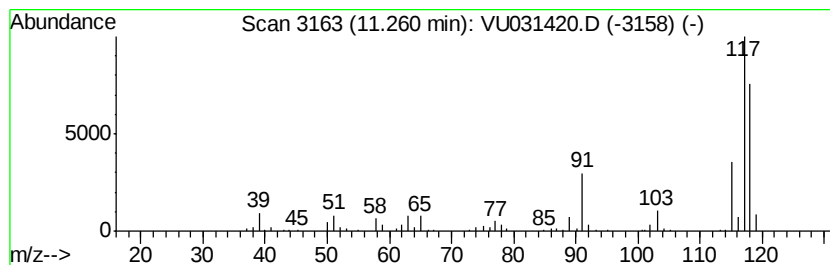
Instrument :  
MSVOA\_U  
ClientSampleId :  
GAHW1

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM042319WMA.M  
Quant Title : VOC Analysis

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

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Peak Number 7 Benzene, cyclopropyl- Concentration Rank 29

| R.T.    | EstConc   | Area                                | Relative to ISTD       | R.T.           |
|---------|-----------|-------------------------------------|------------------------|----------------|
| 11.26   | 6.13 ug/L | 224869                              | 1,4-Dichlorobenzene-d4 | 11.48          |
| Hit# of | 5         | Tentative ID                        | MW MolForm             | CAS# Qual      |
| 1       |           | Benzene, cvclopropyl-               | 118 C9H10              | 000873-49-4 94 |
| 2       |           | Benzene, 1-ethenyl-2-methyl-        | 118 C9H10              | 000611-15-4 94 |
| 3       |           | Benzene, 2-propenyl-                | 118 C9H10              | 000300-57-2 91 |
| 4       |           | Benzene, 1-propenyl-                | 118 C9H10              | 000637-50-3 91 |
| 5       |           | Benzene, 1,1'-(1-ethenyl-1,3-pro... | 222 C17H18             | 061141-97-7 91 |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU042319\  
Data File : VU031420.D  
Acq On : 23 Apr 2019 03:31  
Operator : JC/SP  
Sample : K2481-06 50X  
Misc : 5.09µ/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 29 Sample Multiplier: 1

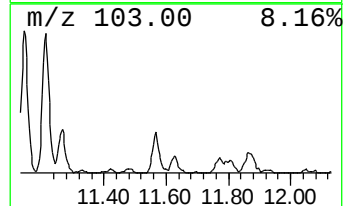
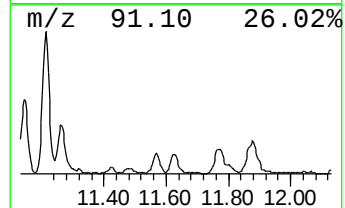
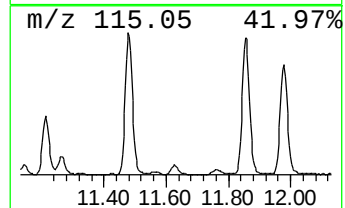
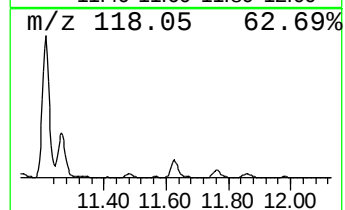
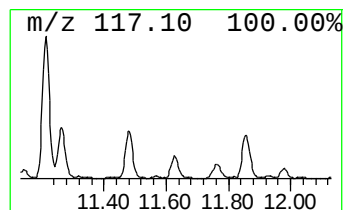
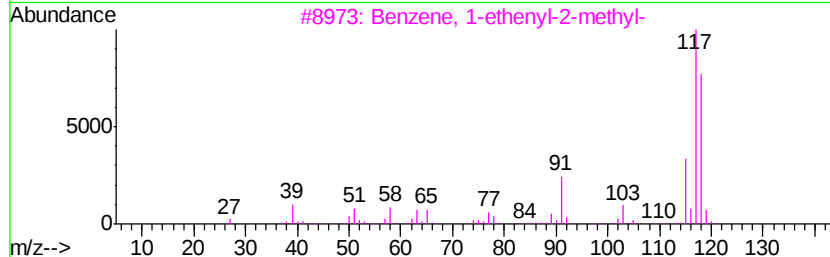
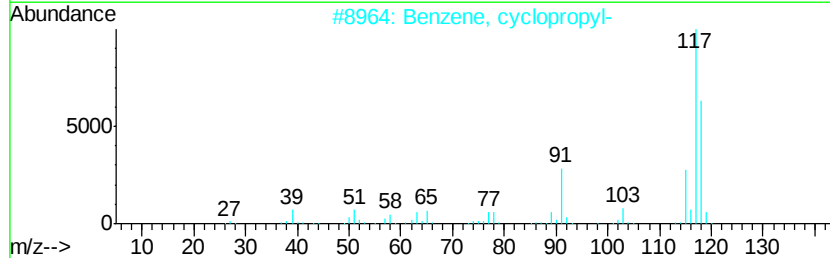
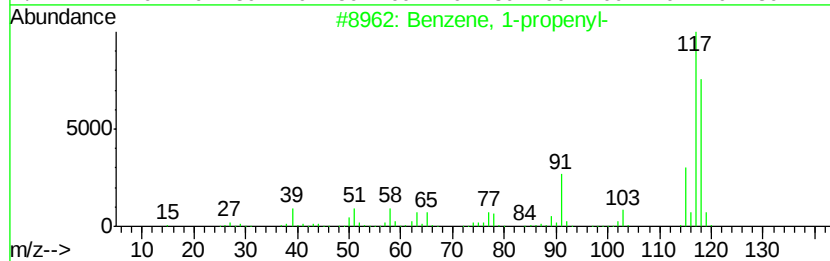
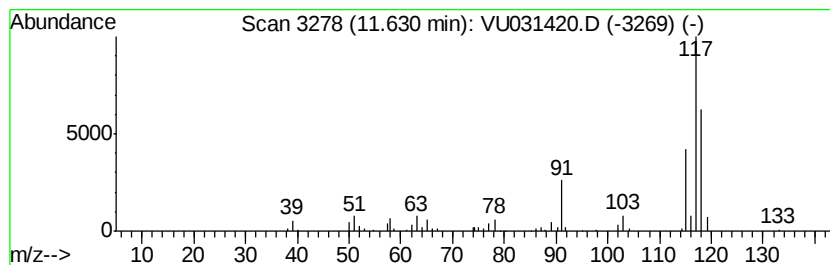
Instrument :  
MSVOA\_U  
ClientSampleId :  
GAHW1

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM042319WMA.M  
Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 9 Benzene, 1-propenyl- Concentration Rank 41

| R.T.      | EstConc                      | Area   | Relative to ISTD       | R.T.        |      |
|-----------|------------------------------|--------|------------------------|-------------|------|
| 11.63     | 2.81 ug/L                    | 102878 | 1,4-Dichlorobenzene-d4 | 11.48       |      |
| Hit# of 5 | Tentative ID                 | MW     | MolForm                | CAS#        | Qual |
| 1         | Benzene, 1-propenyl-         | 118    | C9H10                  | 000637-50-3 | 95   |
| 2         | Benzene, cyclopropyl-        | 118    | C9H10                  | 000873-49-4 | 95   |
| 3         | Benzene, 1-ethenyl-2-methyl- | 118    | C9H10                  | 000611-15-4 | 93   |
| 4         | Benzene, 2-propenyl-         | 118    | C9H10                  | 000300-57-2 | 89   |
| 5         | Benzene, 1-propenyl-         | 118    | C9H10                  | 000637-50-3 | 86   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU042319\  
Data File : VU031420.D  
Acq On : 23 Apr 2019 03:31  
Operator : JC/SP  
Sample : K2481-06 50X  
Misc : 5.09µ/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 29 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
GAHW1

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM042319WMA.M  
Quant Title : VOC Analysis

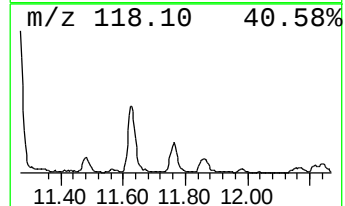
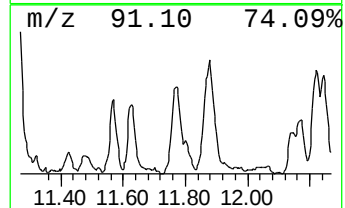
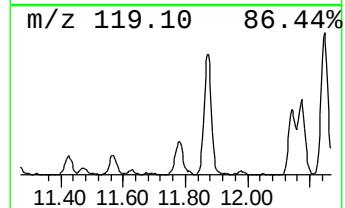
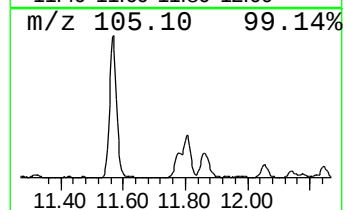
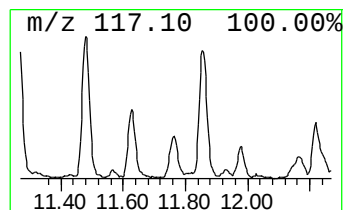
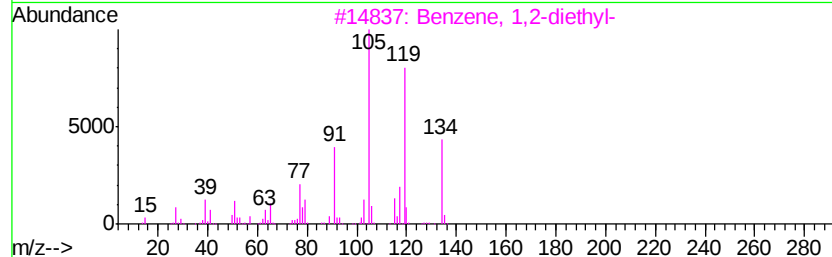
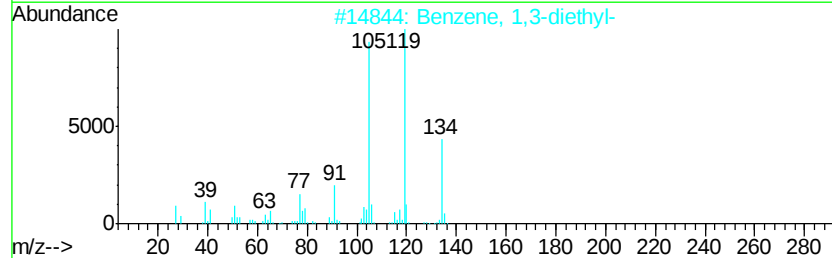
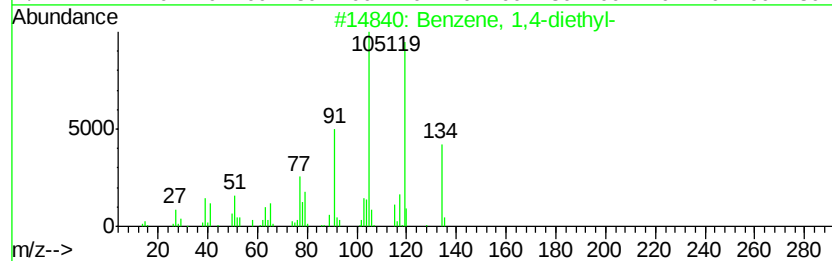
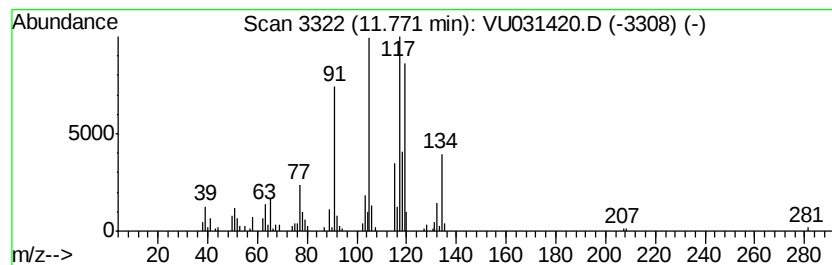
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TIC Integration Parameters: LSCINT.P

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Peak Number 10 Benzene, 1,4-diethyl- Concentration Rank 34

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 11.77 | 3.86 ug/L | 141641 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# | of | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1,4-diethyl-       | 134 | C10H14  | 000105-05-5 | 70   |
| 2    |    | Benzene, 1,3-diethyl-       | 134 | C10H14  | 000141-93-5 | 55   |
| 3    |    | Benzene, 1,2-diethyl-       | 134 | C10H14  | 000135-01-3 | 49   |
| 4    |    | Benzene, 1-ethenyl-3-ethyl- | 132 | C10H12  | 007525-62-4 | 45   |
| 5    |    | Benzene, 1,3-diethyl-       | 134 | C10H14  | 000141-93-5 | 45   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU042319\  
Data File : VU031420.D  
Acq On : 23 Apr 2019 03:31  
Operator : JC/SP  
Sample : K2481-06 50X  
Misc : 5.09µ/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 29 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
GAHW1

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM042319WMA.M  
Quant Title : VOC Analysis

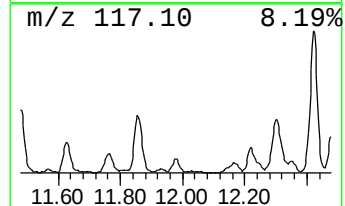
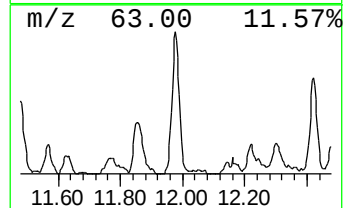
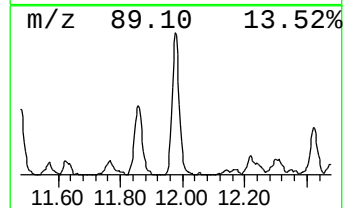
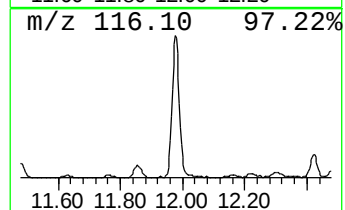
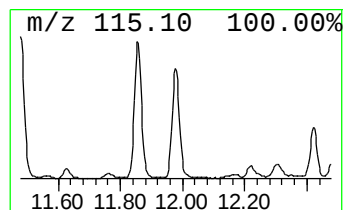
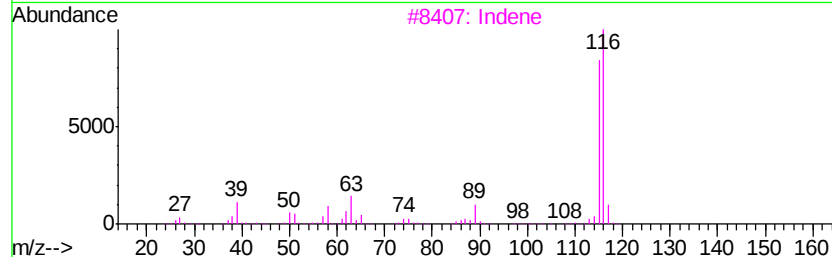
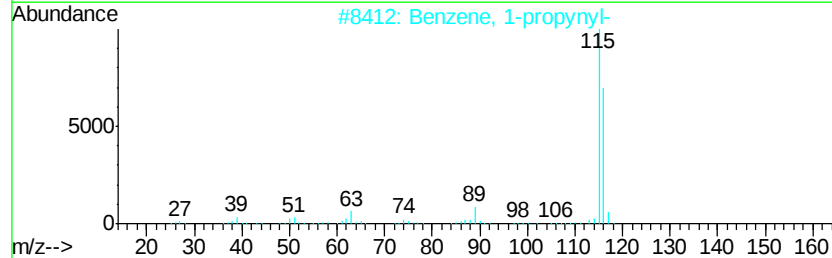
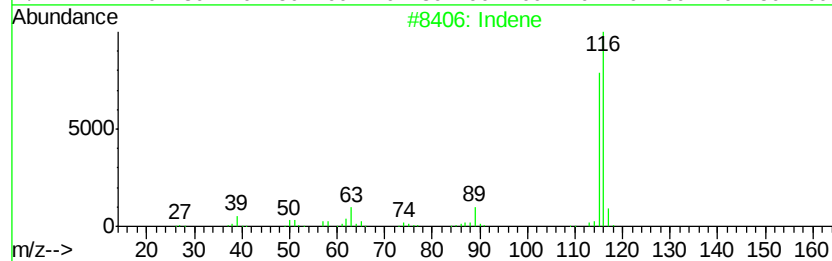
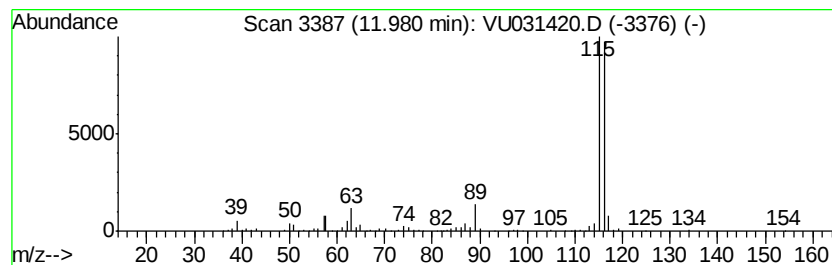
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 11 Indene Concentration Rank 20

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 11.98 | 11.89 ug/L | 435977 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# | of | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------|-----|---------|-------------|------|
| 1    | 5  | Indene                  | 116 | C9H8    | 000095-13-6 | 97   |
| 2    |    | Benzene, 1-propynyl-    | 116 | C9H8    | 000673-32-5 | 94   |
| 3    |    | Indene                  | 116 | C9H8    | 000095-13-6 | 93   |
| 4    |    | Benzene, 1-propynyl-    | 116 | C9H8    | 000673-32-5 | 91   |
| 5    |    | 3-Methylphenylacetylene | 116 | C9H8    | 000766-82-5 | 91   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_U\DATA\VU042319\  
Data File : VU031420.D  
Acq On : 23 Apr 2019 03:31  
Operator : JC/SP  
Sample : K2481-06 50X  
Misc : 5.09g/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 29 Sample Multiplier: 1

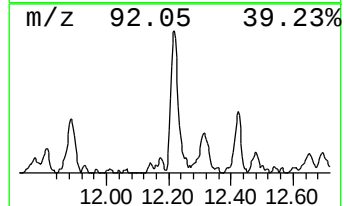
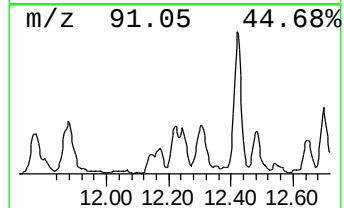
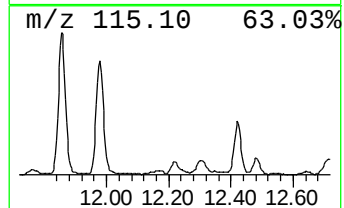
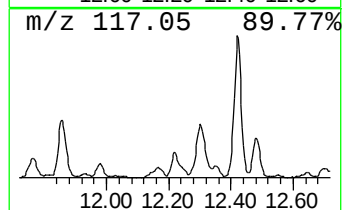
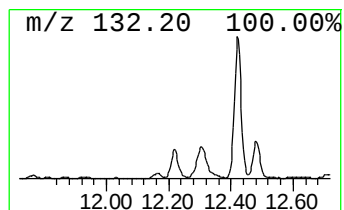
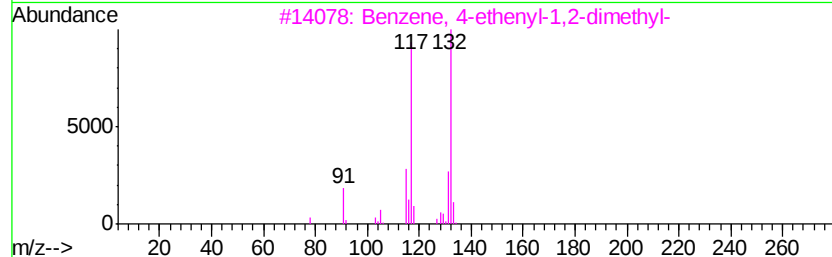
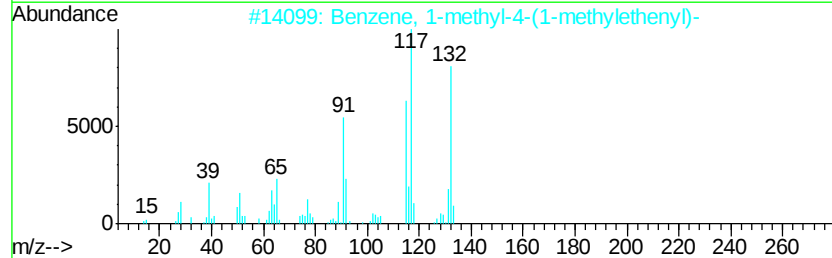
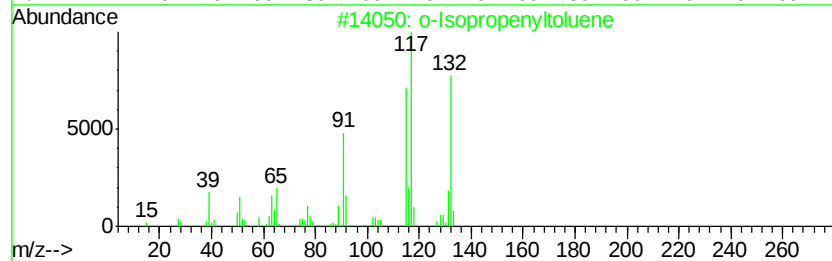
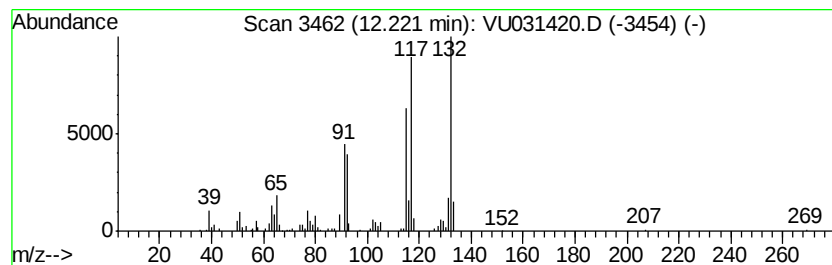
Instrument :  
MSVOA\_U  
ClientSampleId :  
GAHW1

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM042319WMA.M  
Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 12 o-Isopropenyltoluene Concentration Rank 38

| R.T.    | EstConc   | Area                                | Relative to ISTD       | R.T.           |
|---------|-----------|-------------------------------------|------------------------|----------------|
| 12.22   | 3.13 ug/L | 114724                              | 1,4-Dichlorobenzene-d4 | 11.48          |
| Hit# of | 5         | Tentative ID                        | MW MolForm             | CAS# Qual      |
| 1       |           | o-Isopropenyltoluene                | 132 C10H12             | 007399-49-7 95 |
| 2       |           | Benzene, 1-methyl-4-(1-methyleth... | 132 C10H12             | 001195-32-0 93 |
| 3       |           | Benzene, 4-ethenyl-1,2-dimethyl-    | 132 C10H12             | 027831-13-6 89 |
| 4       |           | Benzene, 1-methyl-4-(1-methyleth... | 132 C10H12             | 001195-32-0 74 |
| 5       |           | Benzene, 2-butenyl-                 | 132 C10H12             | 001560-06-1 72 |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU042319\  
Data File : VU031420.D  
Acq On : 23 Apr 2019 03:31  
Operator : JC/SP  
Sample : K2481-06 50X  
Misc : 5.09g/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 29 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
GAHW1

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM042319WMA.M  
Quant Title : VOC Analysis

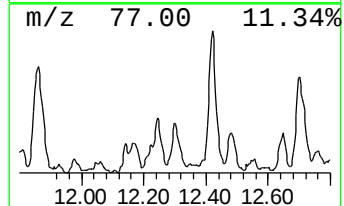
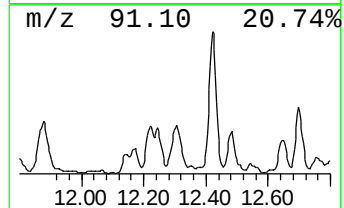
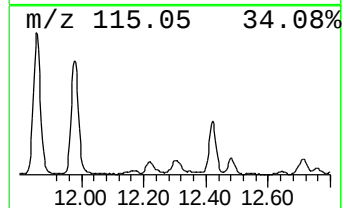
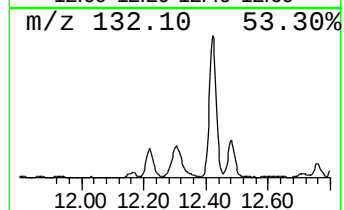
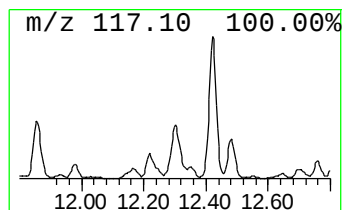
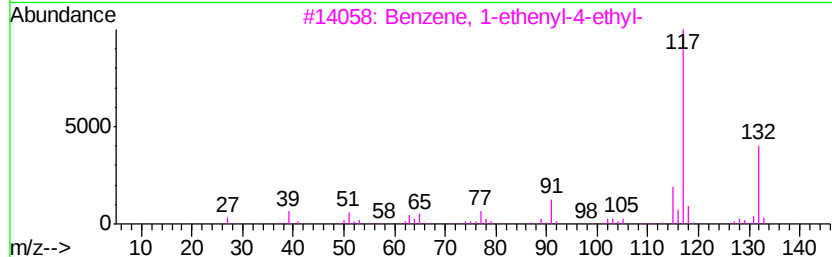
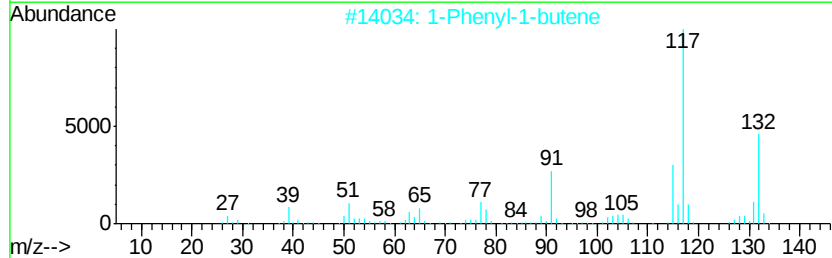
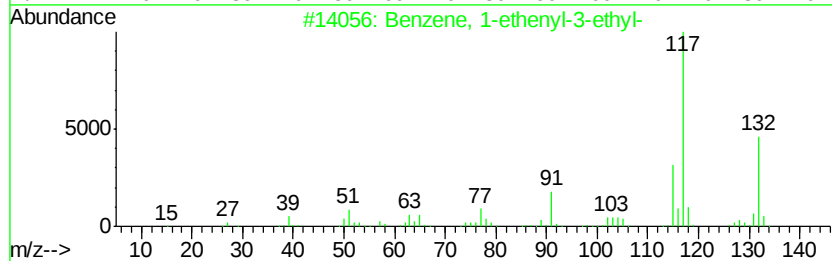
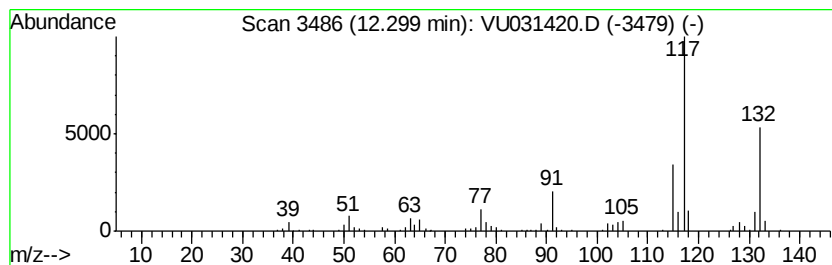
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 13 Benzene, 1-ethenyl-3-ethyl- Concentration Rank 32

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 12.30 | 4.52 ug/L | 165814 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# | of | 5 | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|---|-----------------------------|-----|---------|-------------|------|
| 1    |    |   | Benzene, 1-ethenyl-3-ethyl- | 132 | C10H12  | 007525-62-4 | 94   |
| 2    |    |   | 1-Phenyl-1-butene           | 132 | C10H12  | 000824-90-8 | 90   |
| 3    |    |   | Benzene, 1-ethenyl-4-ethyl- | 132 | C10H12  | 003454-07-7 | 90   |
| 4    |    |   | Benzene, 2-butenyl-         | 132 | C10H12  | 001560-06-1 | 90   |
| 5    |    |   | Benzene, 1-ethenyl-4-ethyl- | 132 | C10H12  | 003454-07-7 | 87   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU042319\  
Data File : VU031420.D  
Acq On : 23 Apr 2019 03:31  
Operator : JC/SP  
Sample : K2481-06 50X  
Misc : 5.09g/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 29 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
GAHW1

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM042319WMA.M  
Quant Title : VOC Analysis

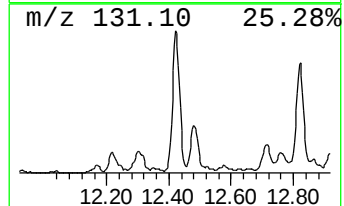
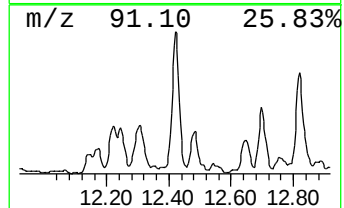
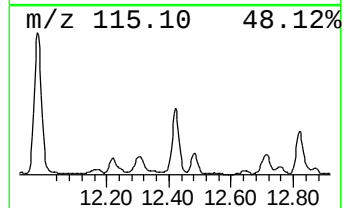
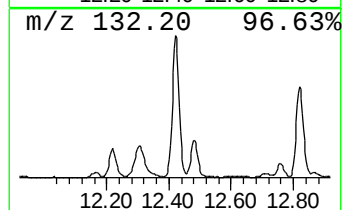
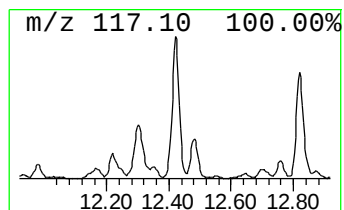
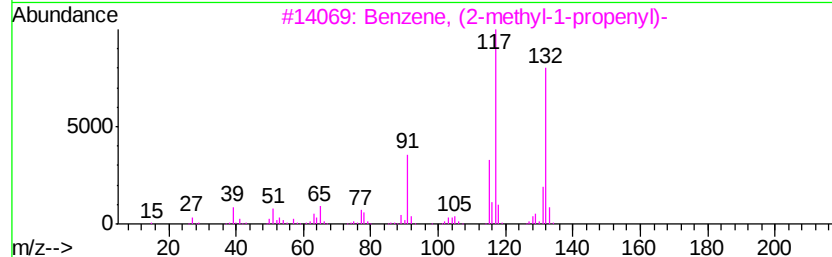
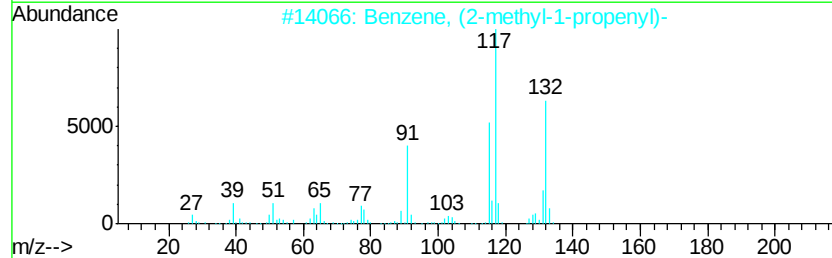
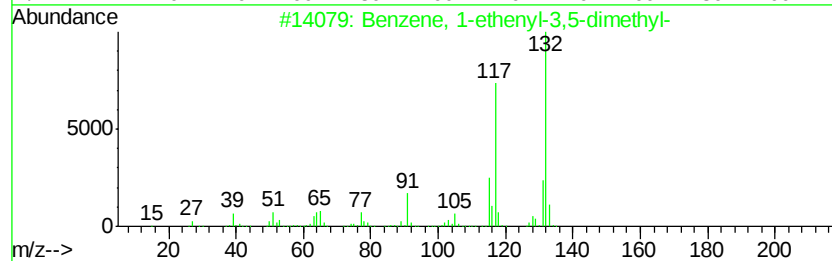
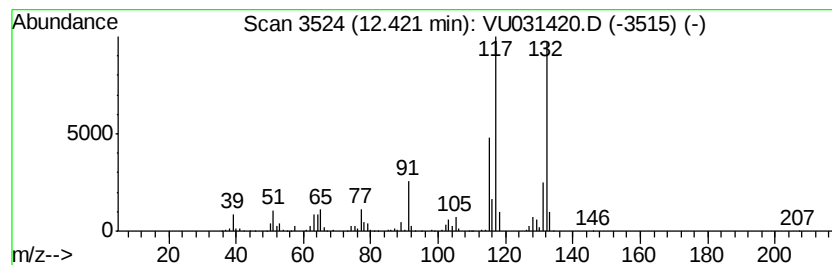
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 14 Benzene, 1-ethenyl-3,5-dime... Concentration Rank 16

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 12.42 | 15.93 ug/L | 584054 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# | of | Tentative ID                      | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1-ethenyl-3,5-dimethyl-  | 132 | C10H12  | 005379-20-4 | 95   |
| 2    |    | Benzene, (2-methyl-1-propenyl)-   | 132 | C10H12  | 000768-49-0 | 95   |
| 3    |    | Benzene, (2-methyl-1-propenyl)-   | 132 | C10H12  | 000768-49-0 | 94   |
| 4    |    | Benzene, 1-methyl-4-(2-propenyl)- | 132 | C10H12  | 003333-13-9 | 94   |
| 5    |    | o-Isopropenyltoluene              | 132 | C10H12  | 007399-49-7 | 94   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU042319\  
Data File : VU031420.D  
Acq On : 23 Apr 2019 03:31  
Operator : JC/SP  
Sample : K2481-06 50X  
Misc : 5.09g/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 29 Sample Multiplier: 1

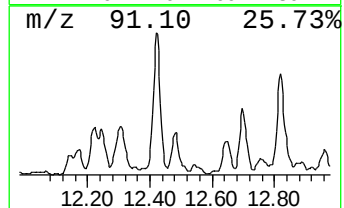
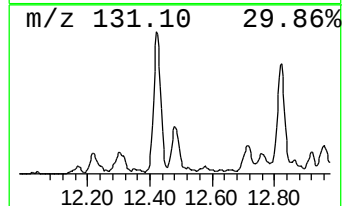
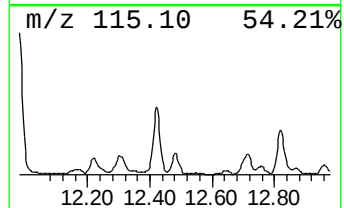
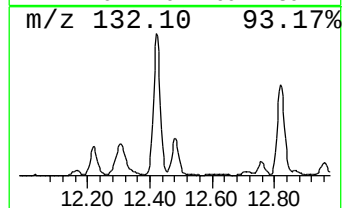
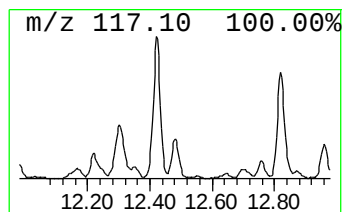
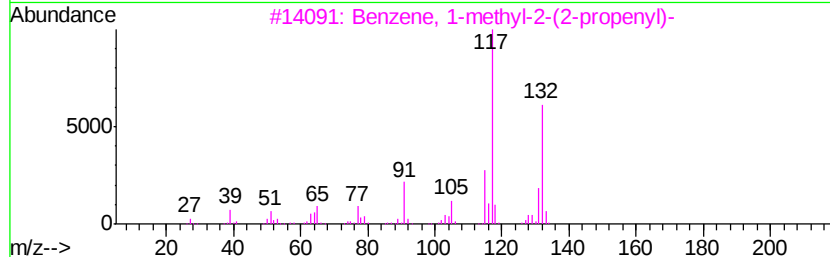
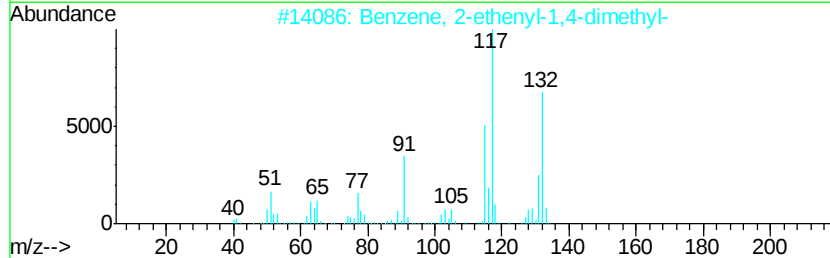
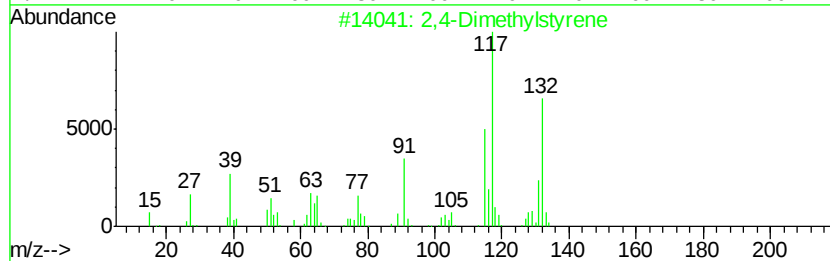
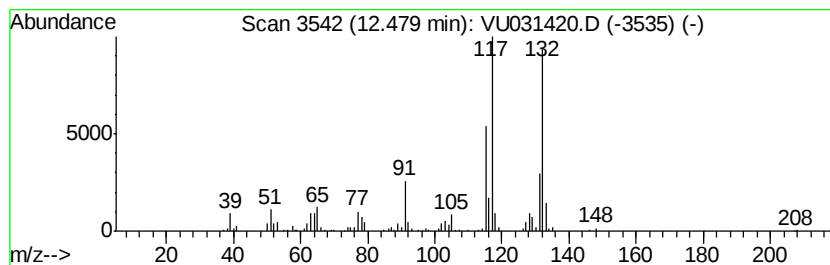
Instrument :  
MSVOA\_U  
ClientSampleId :  
GAHW1

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM042319WMA.M  
Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 15 2,4-Dimethylstyrene Concentration Rank 30

| R.T.    | EstConc                           | Area         | Relative to ISTD       | R.T.           |
|---------|-----------------------------------|--------------|------------------------|----------------|
| 12.48   | 5.06 ug/L                         | 185444       | 1,4-Dichlorobenzene-d4 | 11.48          |
| Hit# of | 5                                 | Tentative ID | MW MolForm             | CAS# Qual      |
| 1       | 2,4-Dimethylstylene               | 132          | C10H12                 | 002234-20-0 97 |
| 2       | Benzene, 2-ethenyl-1,4-dimethyl-  | 132          | C10H12                 | 002039-89-6 95 |
| 3       | Benzene, 1-methyl-2-(2-propenyl)- | 132          | C10H12                 | 001587-04-8 95 |
| 4       | Benzene, 2-ethenyl-1,3-dimethyl-  | 132          | C10H12                 | 002039-90-9 95 |
| 5       | Benzene, 2-ethenyl-1,4-dimethyl-  | 132          | C10H12                 | 002039-89-6 94 |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU042319\  
Data File : VU031420.D  
Acq On : 23 Apr 2019 03:31  
Operator : JC/SP  
Sample : K2481-06 50X  
Misc : 5.09g/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 29 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
GAHW1

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM042319WMA.M  
Quant Title : VOC Analysis

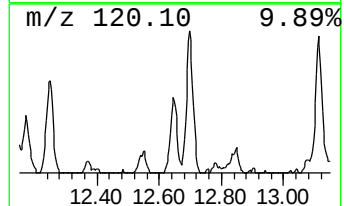
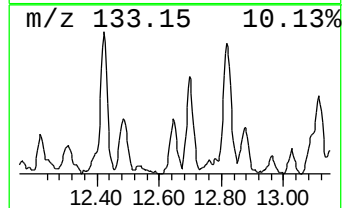
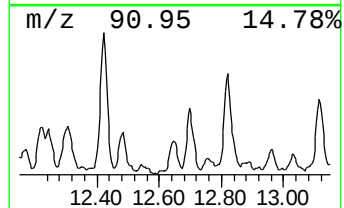
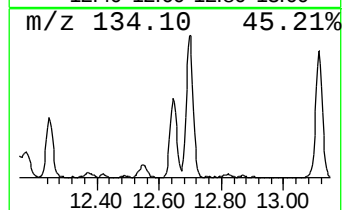
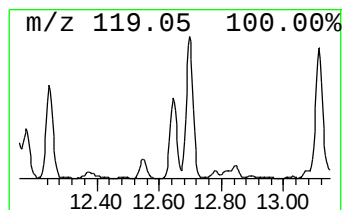
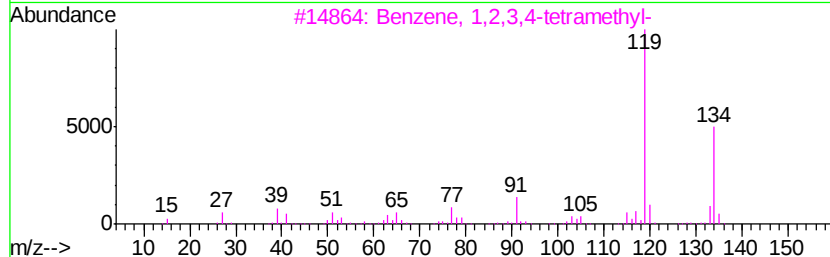
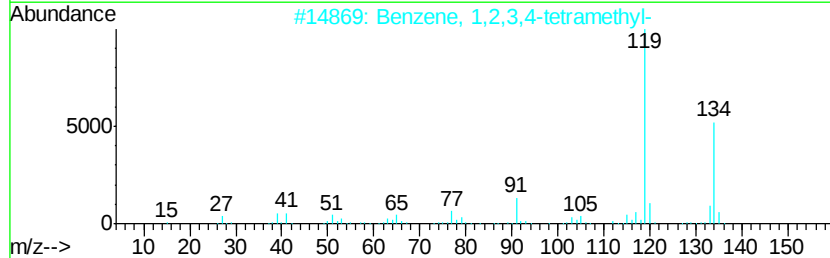
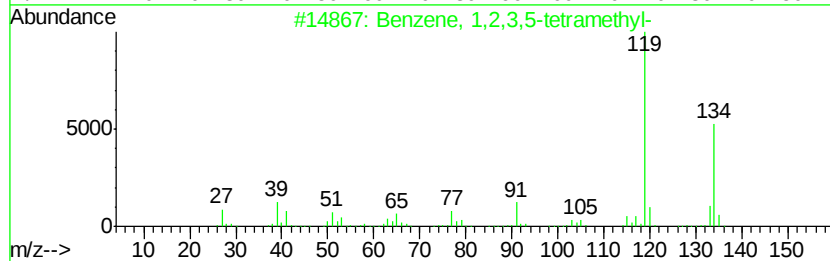
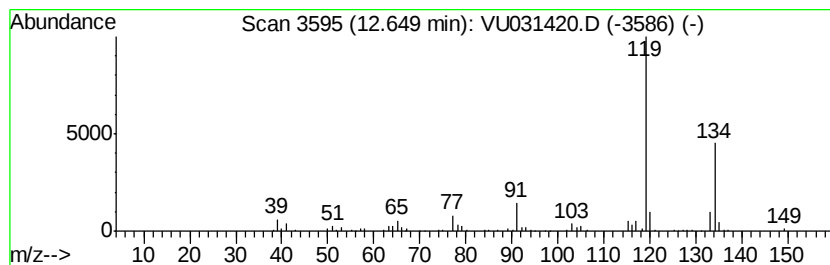
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 16 Benzene, 1,2,3,5-tetramethyl- Concentration Rank 36

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 12.65 | 3.62 ug/L | 132669 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# | of | 5 | Tentative ID                  | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------|-----|---------|-------------|------|
| 1    |    |   | Benzene, 1,2,3,5-tetramethyl- | 134 | C10H14  | 000527-53-7 | 97   |
| 2    |    |   | Benzene, 1,2,3,4-tetramethyl- | 134 | C10H14  | 000488-23-3 | 95   |
| 3    |    |   | Benzene, 1,2,3,4-tetramethyl- | 134 | C10H14  | 000488-23-3 | 95   |
| 4    |    |   | Benzene, 1,2,3,5-tetramethyl- | 134 | C10H14  | 000527-53-7 | 94   |
| 5    |    |   | Benzene, 1,2,4,5-tetramethyl- | 134 | C10H14  | 000095-93-2 | 94   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU042319\  
Data File : VU031420.D  
Acq On : 23 Apr 2019 03:31  
Operator : JC/SP  
Sample : K2481-06 50X  
Misc : 5.09µ/5mL/100µL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 29 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
GAHW1

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM042319WMA.M  
Quant Title : VOC Analysis

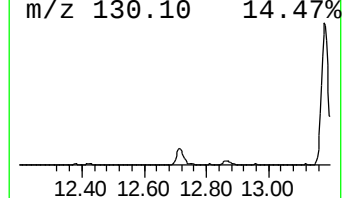
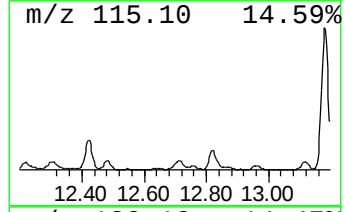
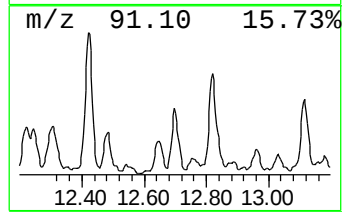
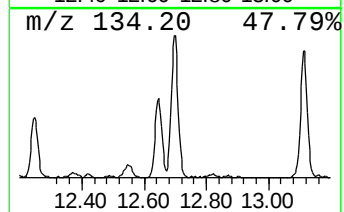
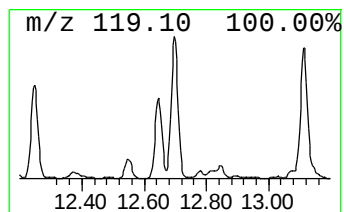
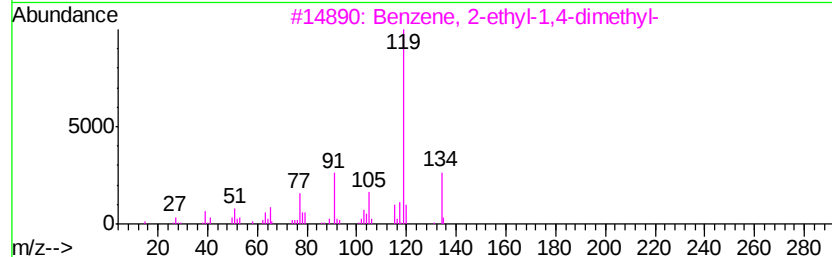
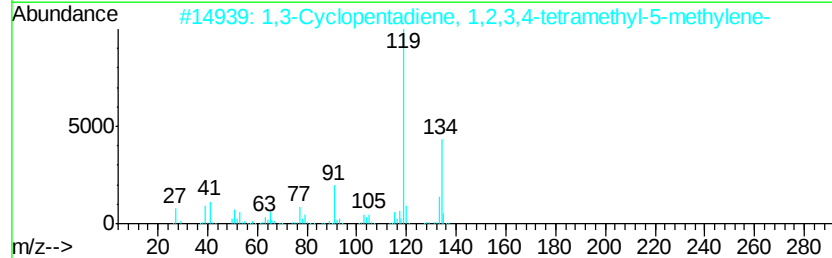
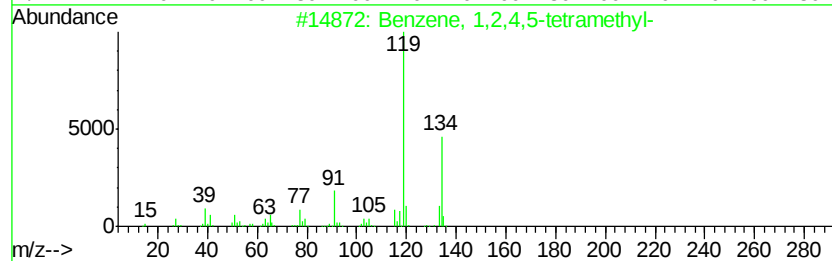
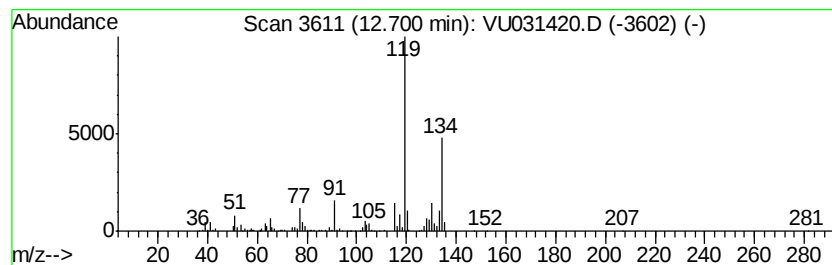
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 17 Benzene, 1,2,4,5-tetramethyl- Concentration Rank 22

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 12.70 | 11.14 ug/L | 408452 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1,2,4,5-tetramethyl-       | 134 | C10H14  | 000095-93-2 | 95   |
| 2    |    | 1,3-Cyclopentadiene, 1,2,3,4-tet... | 134 | C10H14  | 076089-59-3 | 93   |
| 3    |    | Benzene, 2-ethyl-1,4-dimethyl-      | 134 | C10H14  | 001758-88-9 | 93   |
| 4    |    | Benzene, 4-ethyl-1,2-dimethyl-      | 134 | C10H14  | 000934-80-5 | 93   |
| 5    |    | Benzene, 1-ethyl-2,3-dimethyl-      | 134 | C10H14  | 000933-98-2 | 90   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU042319\  
Data File : VU031420.D  
Acq On : 23 Apr 2019 03:31  
Operator : JC/SP  
Sample : K2481-06 50X  
Misc : 5.09g/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 29 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
GAHW1

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM042319WMA.M  
Quant Title : VOC Analysis

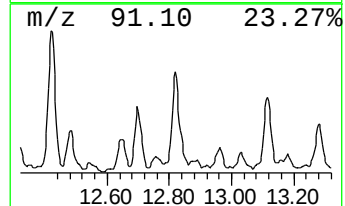
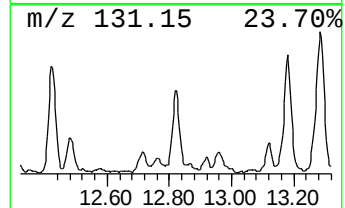
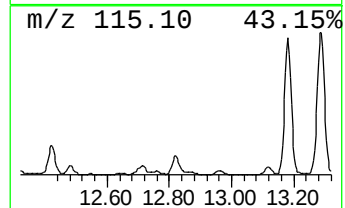
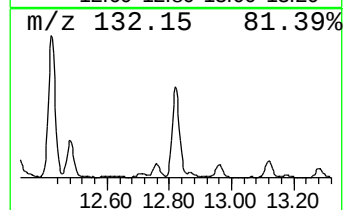
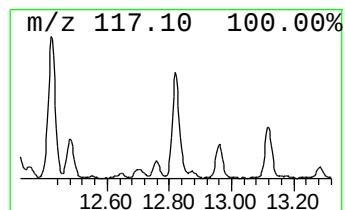
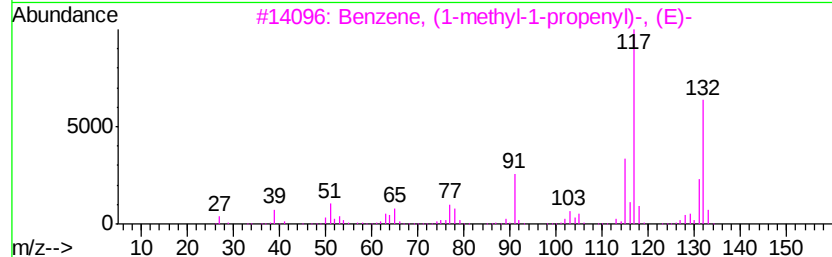
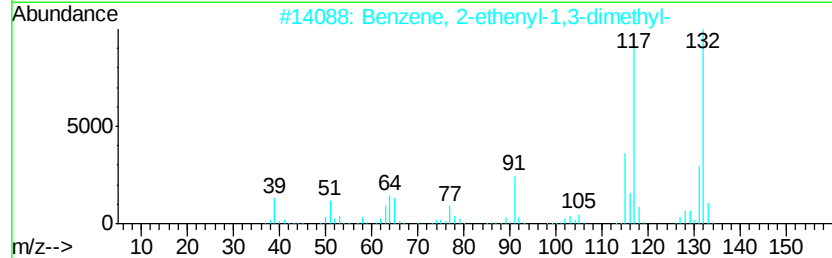
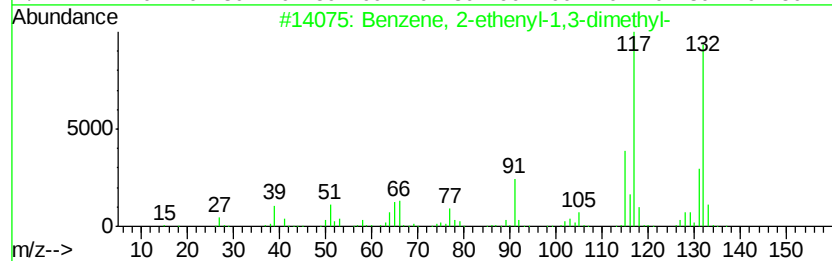
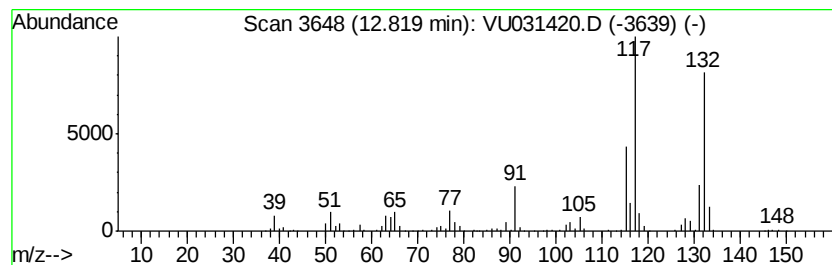
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 18 Benzene, 2-ethenyl-1,3-dime... Concentration Rank 19

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 12.82 | 12.09 ug/L | 443295 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 2-ethenyl-1,3-dimethyl-    | 132 | C10H12  | 002039-90-9 | 96   |
| 2    |    | Benzene, 2-ethenyl-1,3-dimethyl-    | 132 | C10H12  | 002039-90-9 | 94   |
| 3    |    | Benzene, (1-methyl-1-propenyl)-,... | 132 | C10H12  | 000768-00-3 | 94   |
| 4    |    | Benzene, 1-methyl-4-(2-propenyl)-   | 132 | C10H12  | 003333-13-9 | 94   |
| 5    |    | Benzene, 2-ethenyl-1,4-dimethyl-    | 132 | C10H12  | 002039-89-6 | 94   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU042319\  
Data File : VU031420.D  
Acq On : 23 Apr 2019 03:31  
Operator : JC/SP  
Sample : K2481-06 50X  
Misc : 5.09g/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 29 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
GAHW1

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM042319WMA.M  
Quant Title : VOC Analysis

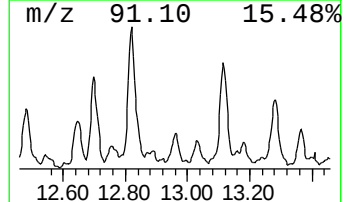
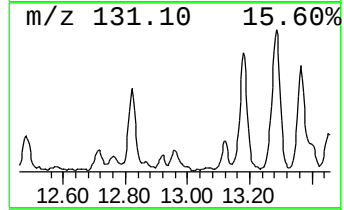
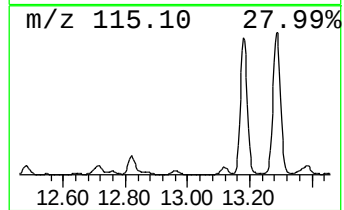
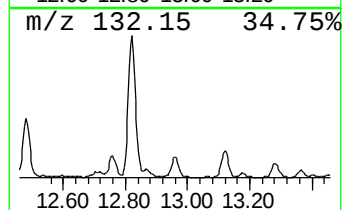
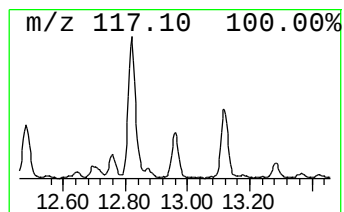
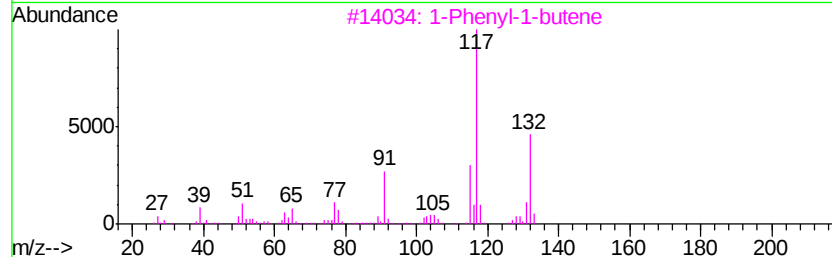
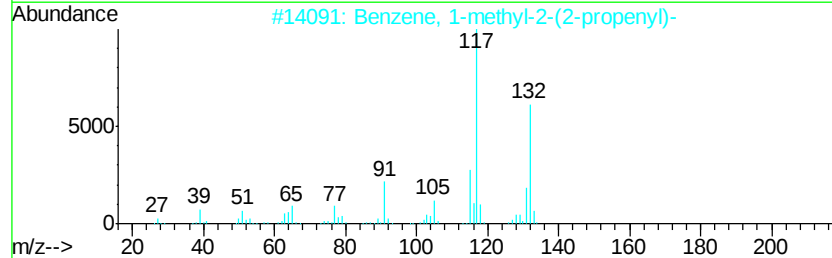
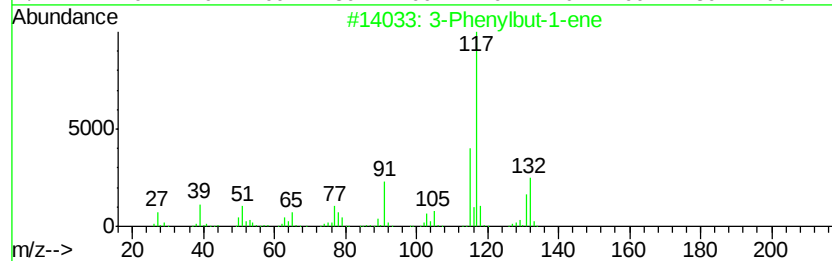
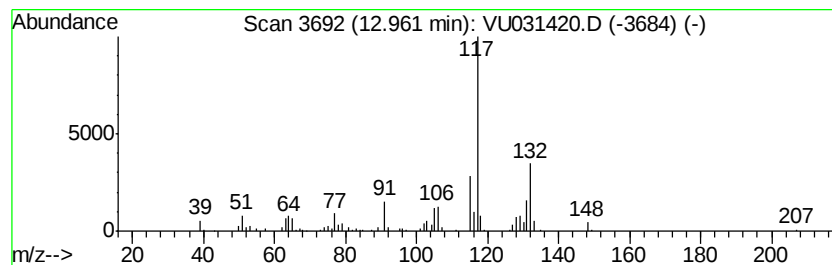
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 19 3-Phenylbut-1-ene Concentration Rank 40

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 12.96 | 2.84 ug/L | 104217 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# | of | Tentative ID                      | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------------------|-----|---------|-------------|------|
| 1    | 5  | 3-Phenylbut-1-ene                 | 132 | C10H12  | 000934-10-1 | 87   |
| 2    |    | Benzene, 1-methyl-2-(2-propenyl)- | 132 | C10H12  | 001587-04-8 | 87   |
| 3    |    | 1-Phenyl-1-butene                 | 132 | C10H12  | 000824-90-8 | 87   |
| 4    |    | Benzene, 2-ethenyl-1,4-dimethyl-  | 132 | C10H12  | 002039-89-6 | 83   |
| 5    |    | 1H-Indene, 2,3-dihydro-2-methyl-  | 132 | C10H12  | 000824-63-5 | 83   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU042319\  
Data File : VU031420.D  
Acq On : 23 Apr 2019 03:31  
Operator : JC/SP  
Sample : K2481-06 50X  
Misc : 5.09g/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 29 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
GAHW1

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM042319WMA.M  
Quant Title : VOC Analysis

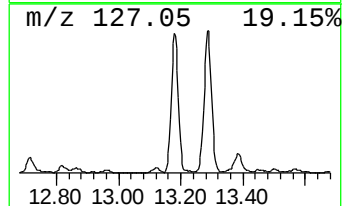
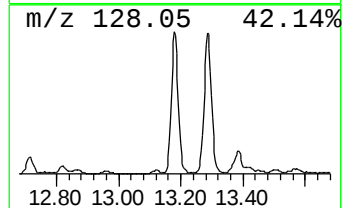
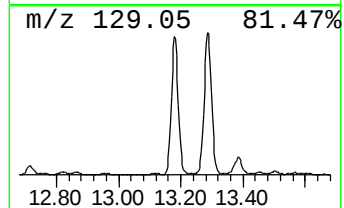
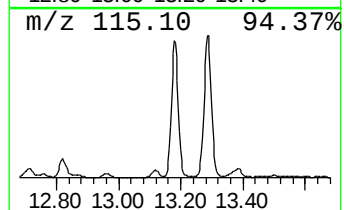
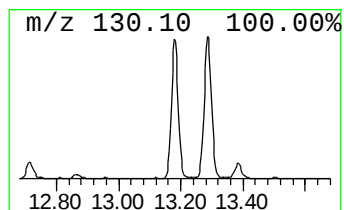
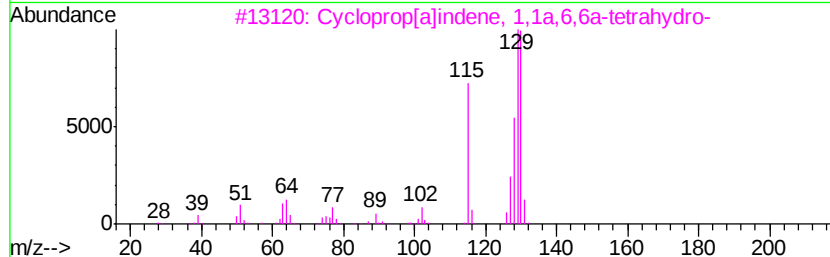
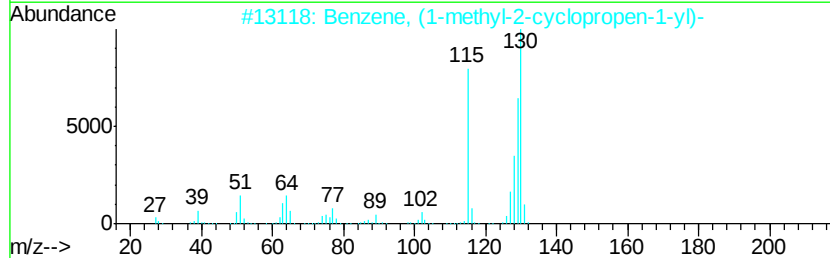
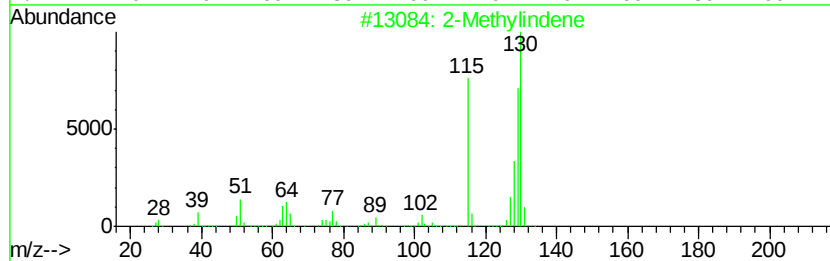
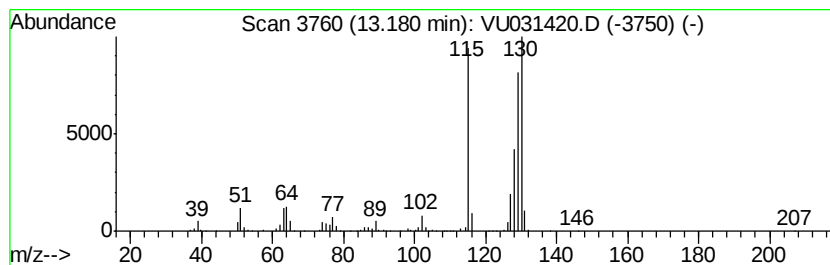
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 21 2-Methylindene Concentration Rank 7

| R.T.  | EstConc    | Area    | Relative to ISTD       | R.T.  |
|-------|------------|---------|------------------------|-------|
| 13.18 | 40.17 ug/L | 1473130 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | 2-Methylindene                      | 130 | C10H10  | 002177-47-1 | 97   |
| 2    |    | Benzene, (1-methyl-2-cyclopropen... | 130 | C10H10  | 065051-83-4 | 96   |
| 3    |    | Cycloprop[alindene, 1,1a,6,6a-te... | 130 | C10H10  | 015677-15-3 | 95   |
| 4    |    | 1H-Indene, 1-methyl-                | 130 | C10H10  | 000767-59-9 | 94   |
| 5    |    | 1H-Indene, 1-methyl-                | 130 | C10H10  | 000767-59-9 | 94   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_U\DATA\VU042319\  
Data File : VU031420.D  
Acq On : 23 Apr 2019 03:31  
Operator : JC/SP  
Sample : K2481-06 50X  
Misc : 5.09µ/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 29 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
GAHW1

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM042319WMA.M  
Quant Title : VOC Analysis

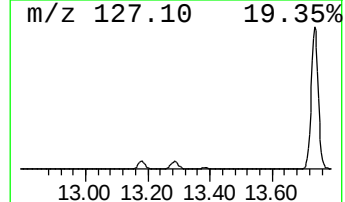
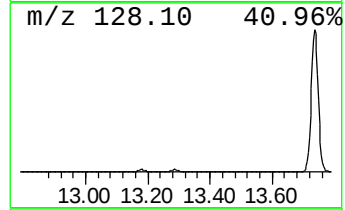
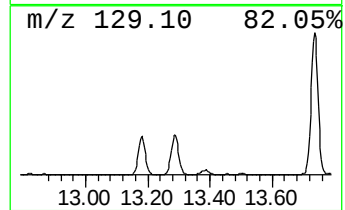
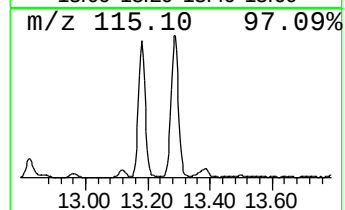
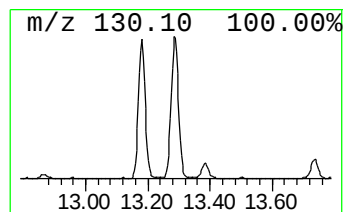
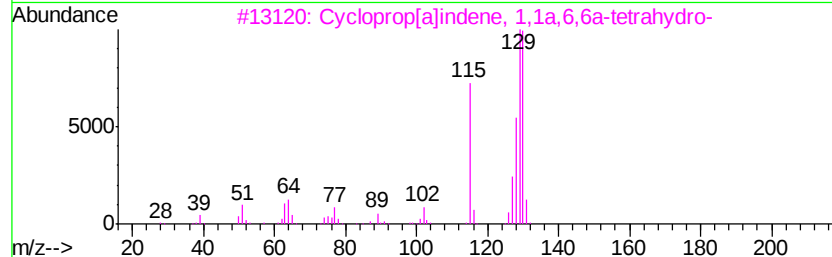
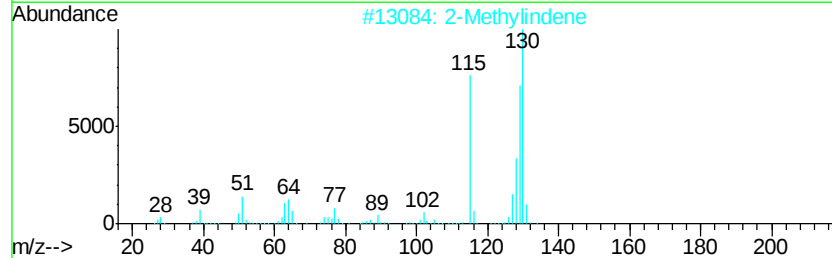
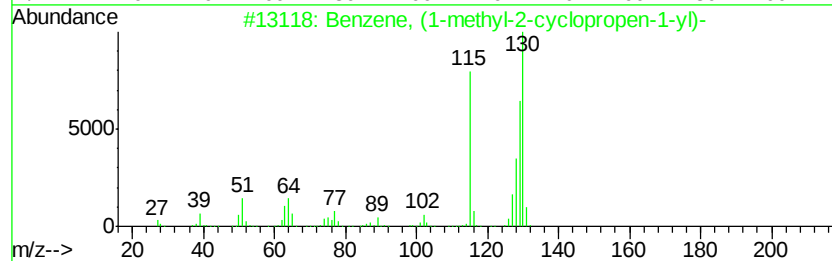
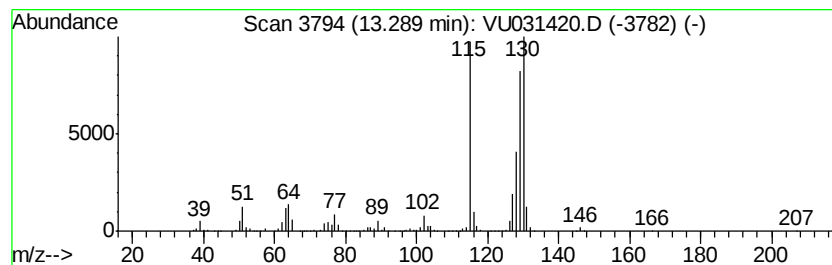
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 22 Benzene, (1-methyl-2-cyclop... Concentration Rank 6

| R.T.  | EstConc    | Area    | Relative to ISTD       | R.T.  |
|-------|------------|---------|------------------------|-------|
| 13.29 | 47.51 ug/L | 1742440 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# | of | Tentative ID                             | MW  | MolForm | CAS#        | Qual |
|------|----|------------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, (1-methyl-2-cyclopropen...      | 130 | C10H10  | 065051-83-4 | 97   |
| 2    |    | 2-Methylindene                           | 130 | C10H10  | 002177-47-1 | 97   |
| 3    |    | Cyclopropylindene, 1,1a,6,6a-tetrahydro- | 130 | C10H10  | 015677-15-3 | 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   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU042319\  
Data File : VU031420.D  
Acq On : 23 Apr 2019 03:31  
Operator : JC/SP  
Sample : K2481-06 50X  
Misc : 5.09µ/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 29 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
GAHW1

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM042319WMA.M  
Quant Title : VOC Analysis

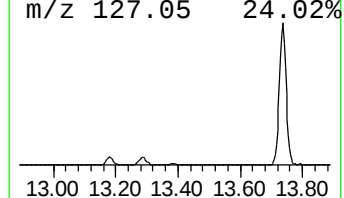
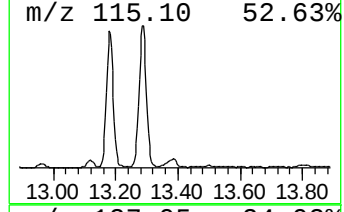
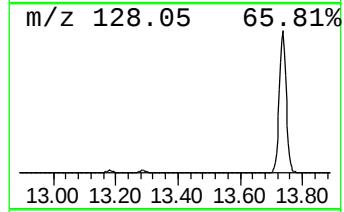
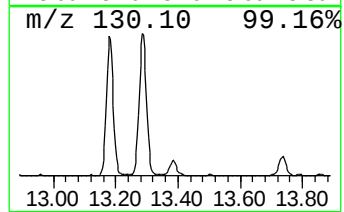
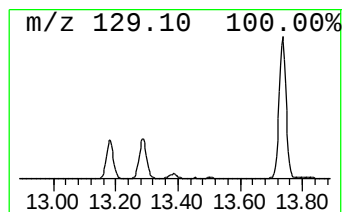
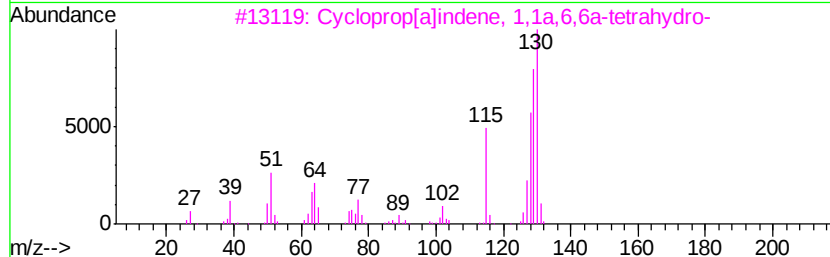
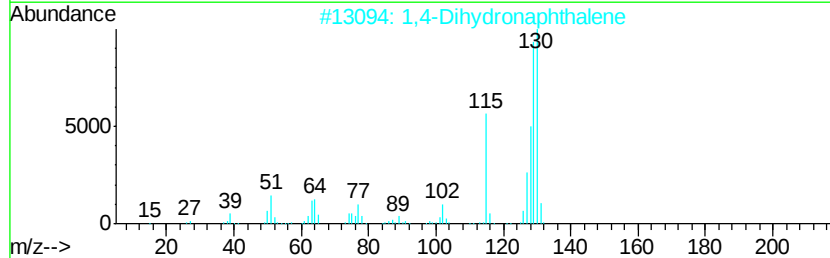
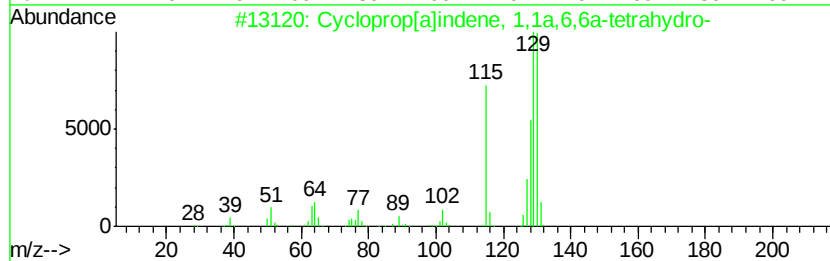
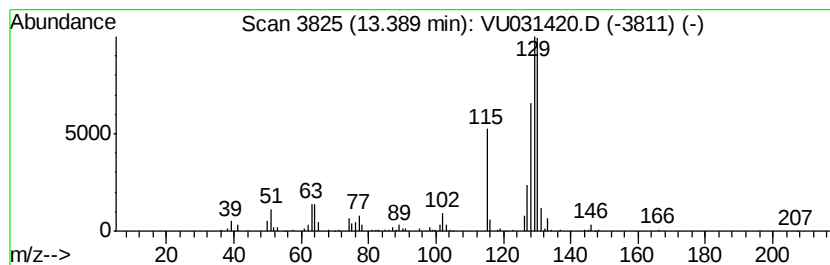
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 23 Cycloprop[a]indene, 1,1a,6,... Concentration Rank 26

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 13.39 | 7.11 ug/L | 260744 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Cycloprop[a]indene, 1,1a,6,6a-te... | 130 | C10H10  | 015677-15-3 | 96   |
| 2    |    | 1,4-Dihydronaphthalene              | 130 | C10H10  | 000612-17-9 | 96   |
| 3    |    | Cycloprop[a]indene, 1,1a,6,6a-te... | 130 | C10H10  | 015677-15-3 | 95   |
| 4    |    | Naphthalene, 1,2-dihydro-           | 130 | C10H10  | 000447-53-0 | 93   |
| 5    |    | Tetracyclo[5.3.0.0<2,6>.0<3,10>]... | 130 | C10H10  | 034324-40-8 | 89   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU042319\  
Data File : VU031420.D  
Acq On : 23 Apr 2019 03:31  
Operator : JC/SP  
Sample : K2481-06 50X  
Misc : 5.09µ/5mL/100µL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 29 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleID :  
GAHW1

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM042319WMA.M  
Quant Title : VOC Analysis

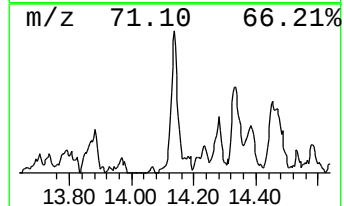
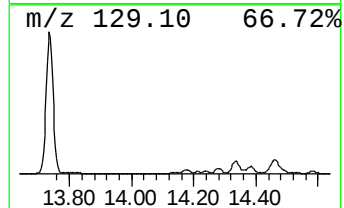
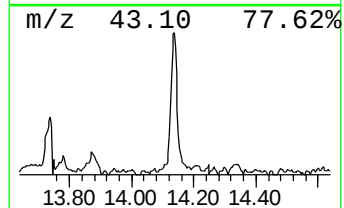
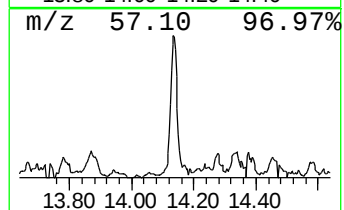
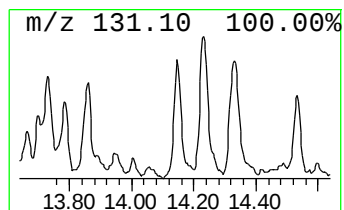
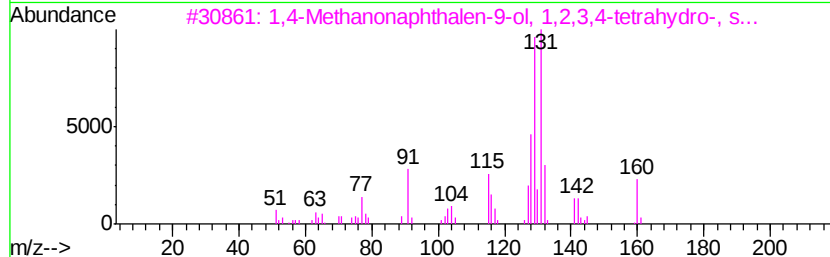
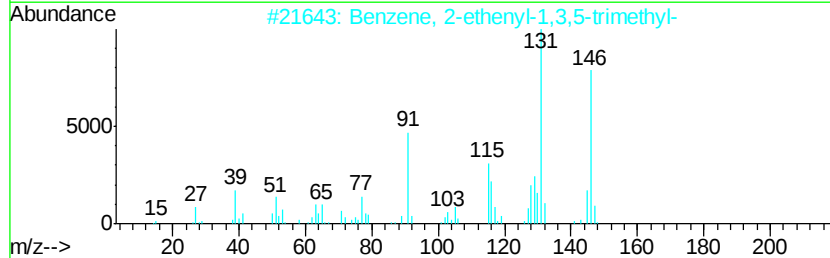
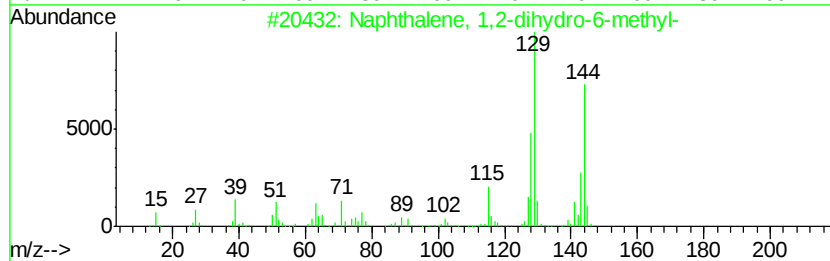
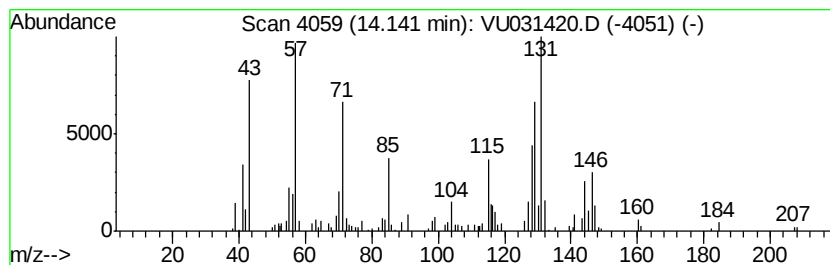
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 25 unknown-01 Concentration Rank 39

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 14.14 | 3.13 ug/L | 114714 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Naphthalene, 1,2-dihydro-6-methyl-  | 144 | C11H12  | 002717-47-7 | 45   |
| 2    |    | Benzene, 2-ethenyl-1,3,5-trimethyl- | 146 | C11H14  | 000769-25-5 | 38   |
| 3    |    | 1,4-Methanonaphthalen-9-ol, 1,2,... | 160 | C11H12O | 001198-20-5 | 38   |
| 4    |    | Tridecane                           | 184 | C13H28  | 000629-50-5 | 35   |
| 5    |    | 2-Ethyl-1-H-indene                  | 144 | C11H12  | 017059-50-6 | 35   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU042319\  
Data File : VU031420.D  
Acq On : 23 Apr 2019 03:31  
Operator : JC/SP  
Sample : K2481-06 50X  
Misc : 5.09g/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 29 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampled :  
GAHW1

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM042319WMA.M  
Quant Title : VOC Analysis

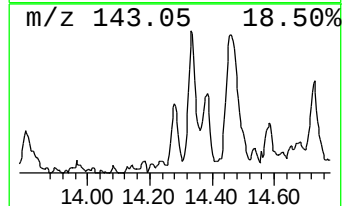
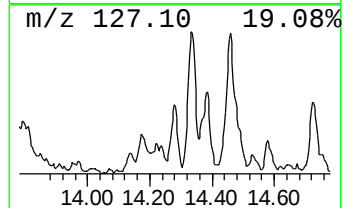
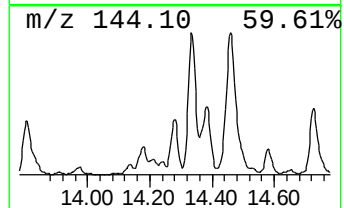
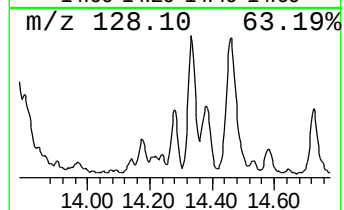
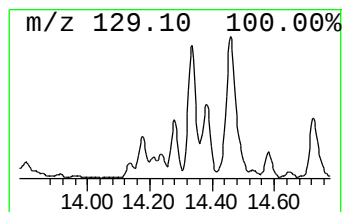
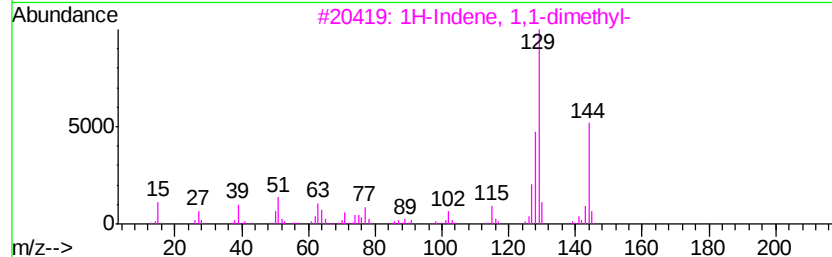
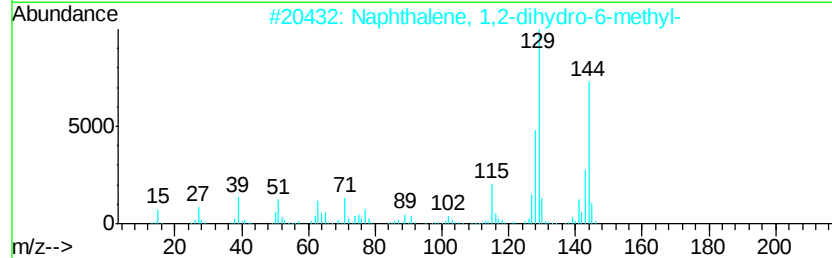
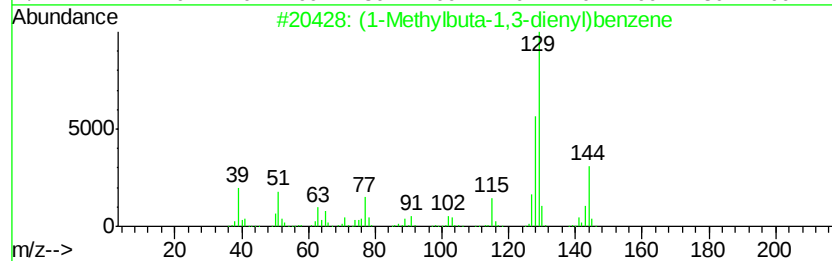
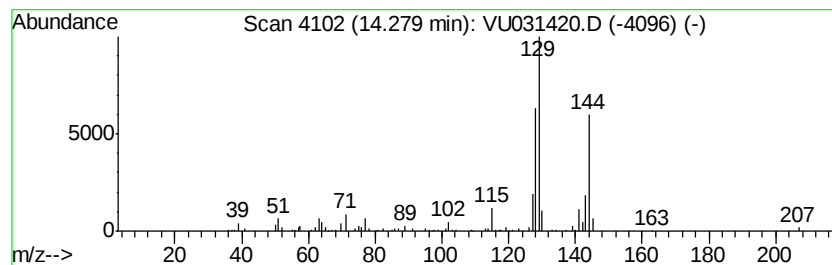
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 26 (1-Methylbuta-1,3-dienyl)be... Concentration Rank 37

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 14.28 | 3.51 ug/L | 128603 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# | of | 5 | Tentative ID                       | MW  | MolForm | CAS#        | Qual |
|------|----|---|------------------------------------|-----|---------|-------------|------|
| 1    |    |   | (1-Methylbuta-1,3-dienyl)benzene   | 144 | C11H12  | 054758-36-0 | 95   |
| 2    |    |   | Naphthalene, 1,2-dihydro-6-methyl- | 144 | C11H12  | 002717-47-7 | 92   |
| 3    |    |   | 1H-Indene, 1,1-dimethyl-           | 144 | C11H12  | 018636-55-0 | 91   |
| 4    |    |   | 1H-Indene, 1,3-dimethyl-           | 144 | C11H12  | 002177-48-2 | 87   |
| 5    |    |   | Benzene, 1-cyclopenten-1-yl-       | 144 | C11H12  | 000825-54-7 | 86   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU042319\  
Data File : VU031420.D  
Acq On : 23 Apr 2019 03:31  
Operator : JC/SP  
Sample : K2481-06 50X  
Misc : 5.09g/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 29 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
GAHW1

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM042319WMA.M  
Quant Title : VOC Analysis

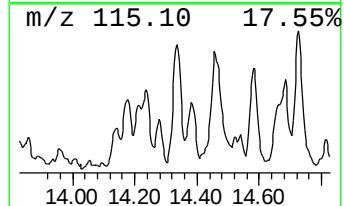
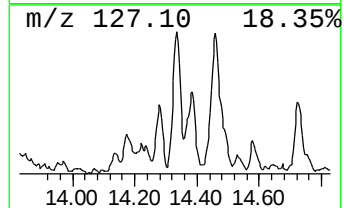
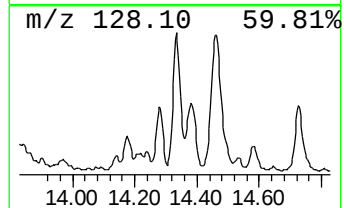
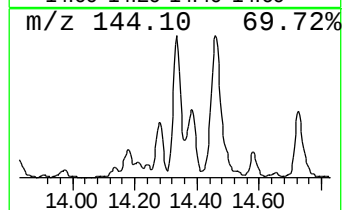
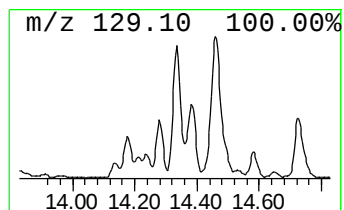
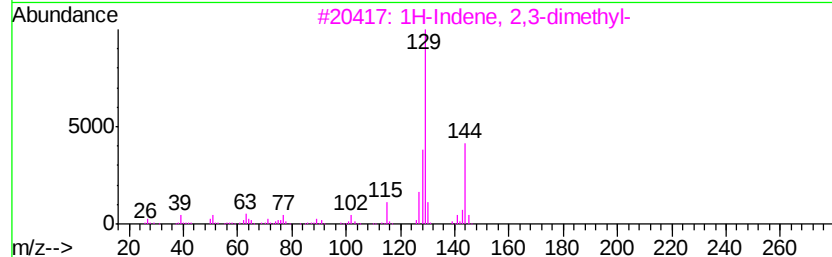
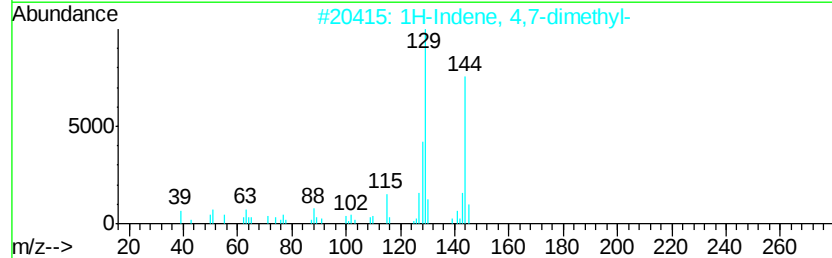
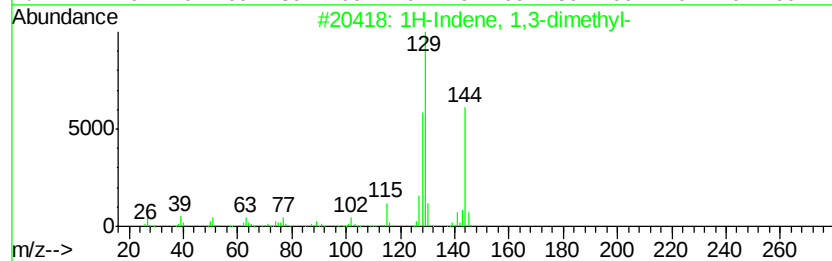
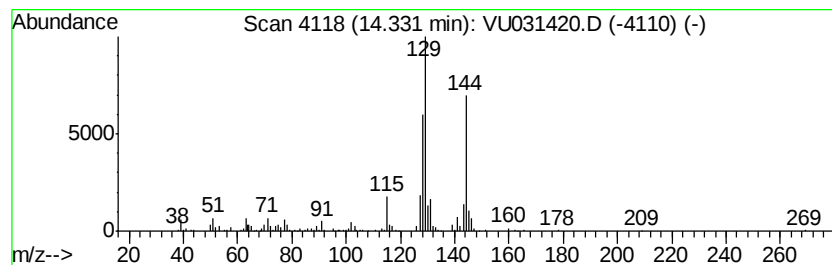
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 27 1H-Indene, 1,3-dimethyl- Concentration Rank 23

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 14.33 | 11.10 ug/L | 407138 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# | of | Tentative ID             | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------|-----|---------|-------------|------|
| 1    | 5  | 1H-Indene, 1,3-dimethyl- | 144 | C11H12  | 002177-48-2 | 96   |
| 2    |    | 1H-Indene, 4,7-dimethyl- | 144 | C11H12  | 006974-97-6 | 93   |
| 3    |    | 1H-Indene, 2,3-dimethyl- | 144 | C11H12  | 004773-82-4 | 91   |
| 4    |    | 1H-Indene, 1,1-dimethyl- | 144 | C11H12  | 018636-55-0 | 90   |
| 5    |    | 1H-Indene, 1,1-dimethyl- | 144 | C11H12  | 018636-55-0 | 87   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU042319\  
Data File : VU031420.D  
Acq On : 23 Apr 2019 03:31  
Operator : JC/SP  
Sample : K2481-06 50X  
Misc : 5.09µ/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 29 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
GAHW1

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM042319WMA.M  
Quant Title : VOC Analysis

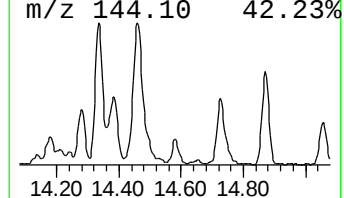
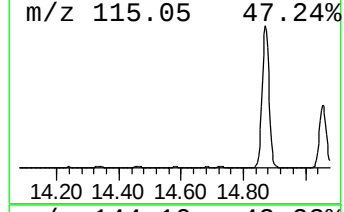
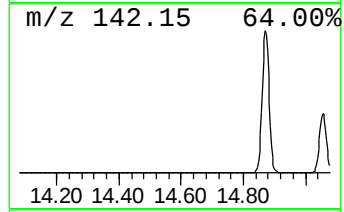
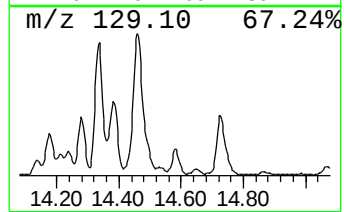
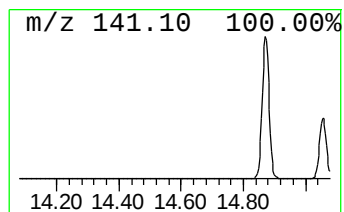
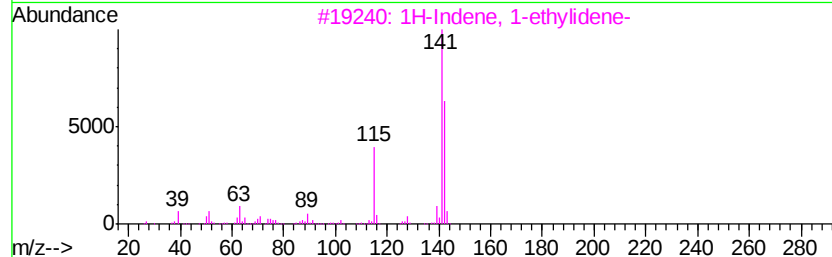
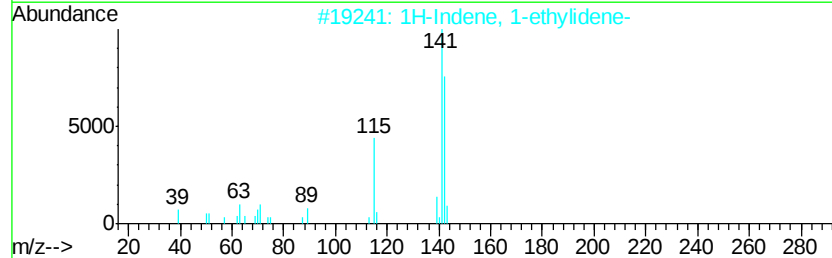
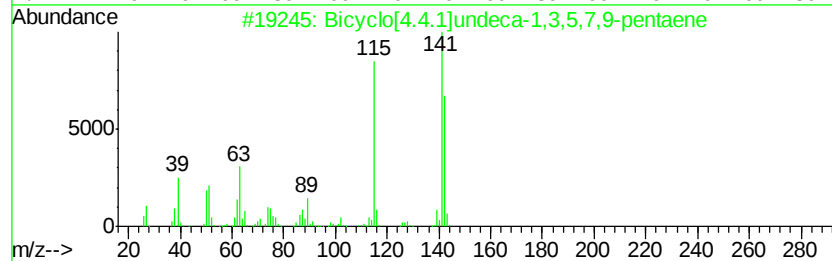
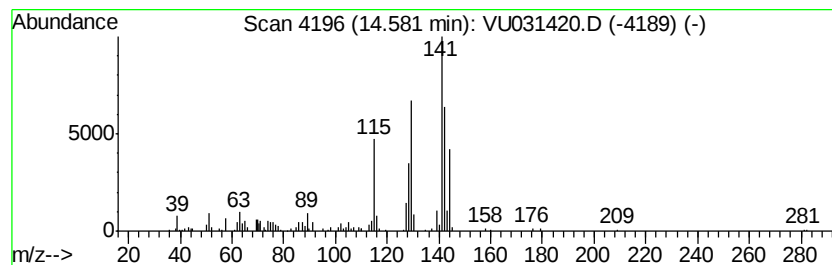
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 29 Bicyclo[4.4.1]undeca-1,3,5,... Concentration Rank 33

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 14.58 | 3.93 ug/L | 144069 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Bicyclo[4.4.1]undeca-1,3,5,7,9-p... | 142 | C11H10  | 002443-46-1 | 78   |
| 2    |    | 1H-Indene, 1-ethylidene-            | 142 | C11H10  | 002471-83-2 | 70   |
| 3    |    | 1H-Indene, 1-ethylidene-            | 142 | C11H10  | 002471-83-2 | 64   |
| 4    |    | Benzocycloheptatriene               | 142 | C11H10  | 000264-09-5 | 64   |
| 5    |    | 1H-Indene, 1,1-dimethyl-            | 144 | C11H12  | 018636-55-0 | 55   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU042319\  
Data File : VU031420.D  
Acq On : 23 Apr 2019 03:31  
Operator : JC/SP  
Sample : K2481-06 50X  
Misc : 5.09µ/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 29 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
GAHW1

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM042319WMA.M  
Quant Title : VOC Analysis

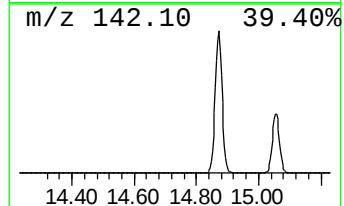
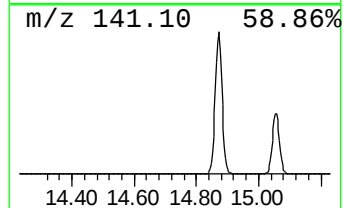
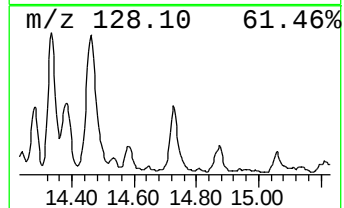
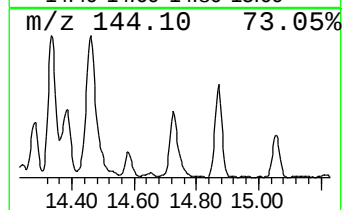
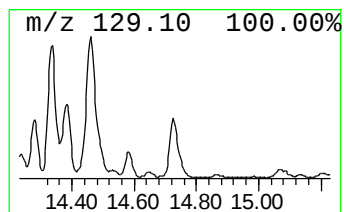
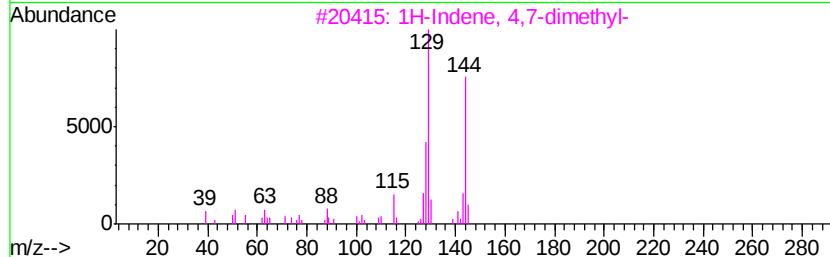
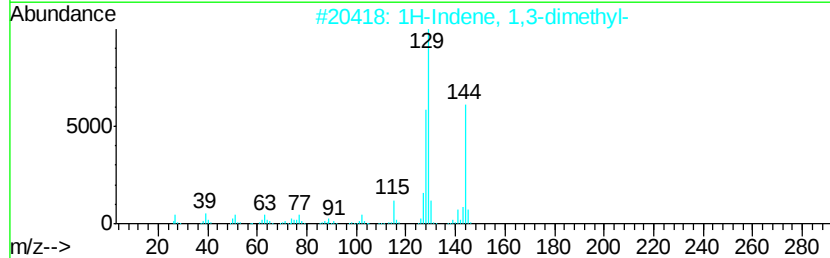
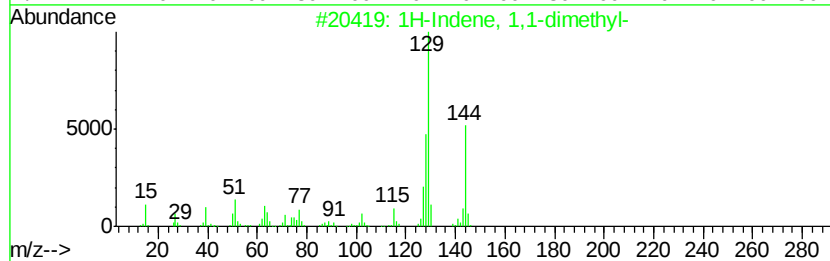
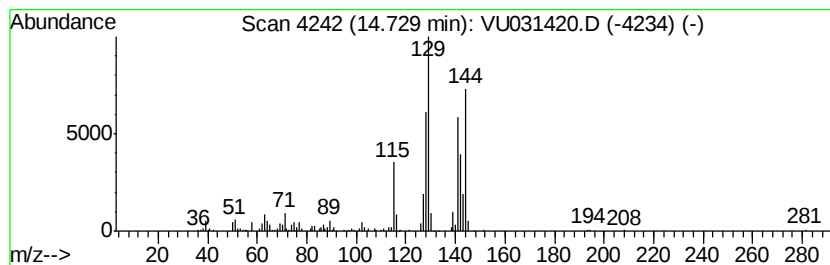
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 30 1H-Indene, 1,1-dimethyl- Concentration Rank 25

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 14.73 | 7.30 ug/L | 267754 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# | of | 5 | Tentative ID                       | MW  | MolForm | CAS#        | Qual |
|------|----|---|------------------------------------|-----|---------|-------------|------|
| 1    |    |   | 1H-Indene, 1,1-dimethyl-           | 144 | C11H12  | 018636-55-0 | 52   |
| 2    |    |   | 1H-Indene, 1,3-dimethyl-           | 144 | C11H12  | 002177-48-2 | 52   |
| 3    |    |   | 1H-Indene, 4,7-dimethyl-           | 144 | C11H12  | 006974-97-6 | 52   |
| 4    |    |   | Naphthalene, 1,2-dihydro-3-methyl- | 144 | C11H12  | 002717-44-4 | 50   |
| 5    |    |   | (1-Methylenebut-2-enyl)benzene     | 144 | C11H12  | 070588-46-4 | 50   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU042319\  
Data File : VU031420.D  
Acq On : 23 Apr 2019 03:31  
Operator : JC/SP  
Sample : K2481-06 50X  
Misc : 5.09g/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 29 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
GAHW1

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM042319WMA.M  
Quant Title : VOC Analysis

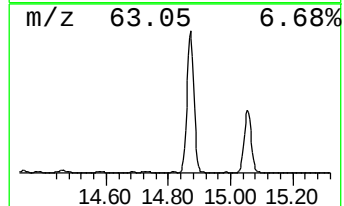
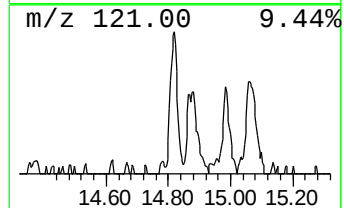
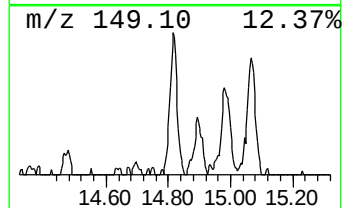
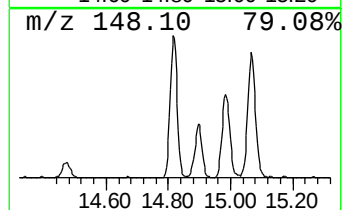
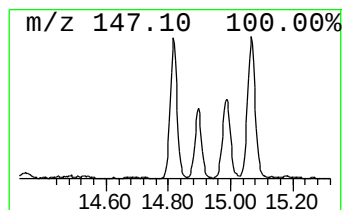
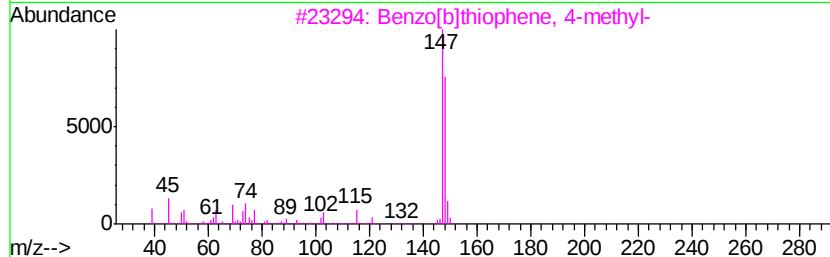
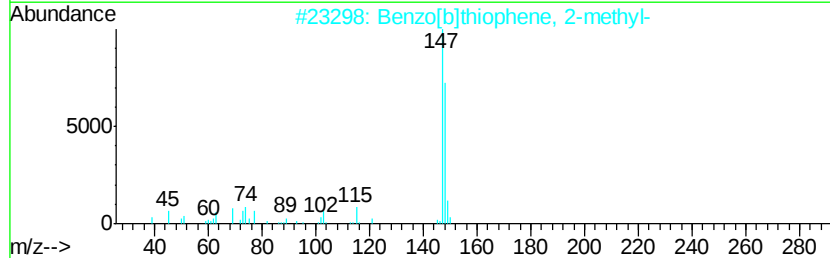
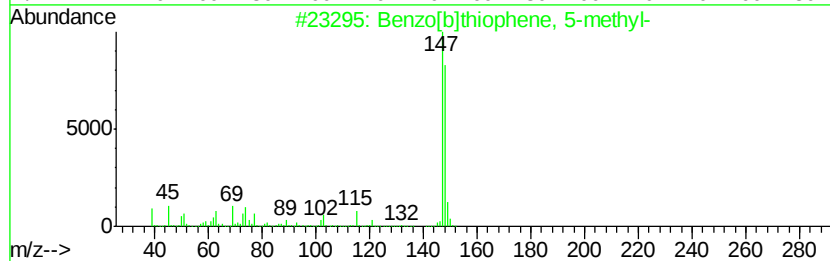
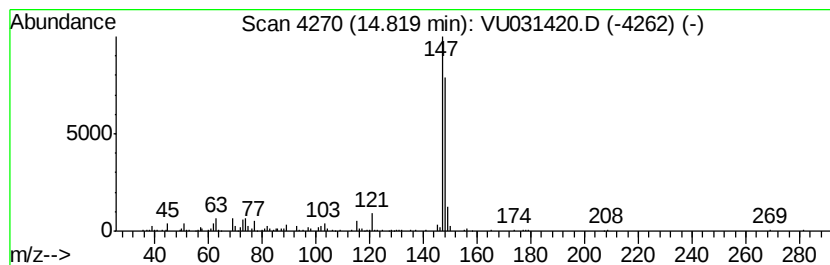
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 31 Benzo[b]thiophene, 5-methyl- Concentration Rank 42

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 14.82 | 2.74 ug/L | 100379 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# | of | Tentative ID                 | MW  | MolForm | CAS#        | Qual |
|------|----|------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzo[b]thiophene, 5-methyl- | 148 | C9H8S   | 014315-14-1 | 91   |
| 2    |    | Benzo[b]thiophene, 2-methyl- | 148 | C9H8S   | 001195-14-8 | 90   |
| 3    |    | Benzo[b]thiophene, 4-methyl- | 148 | C9H8S   | 014315-11-8 | 90   |
| 4    |    | 3-Methylbenzothiophene       | 148 | C9H8S   | 001455-18-1 | 90   |
| 5    |    | 3-Methylbenzothiophene       | 148 | C9H8S   | 001455-18-1 | 90   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU042319\  
Data File : VU031420.D  
Acq On : 23 Apr 2019 03:31  
Operator : JC/SP  
Sample : K2481-06 50X  
Misc : 5.09g/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 29 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
GAHW1

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM042319WMA.M  
Quant Title : VOC Analysis

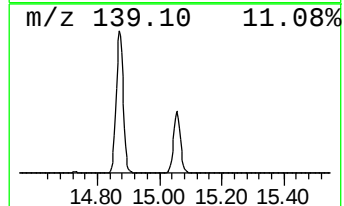
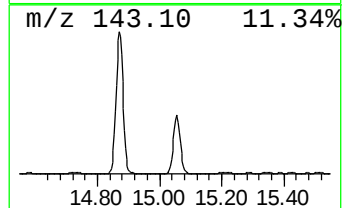
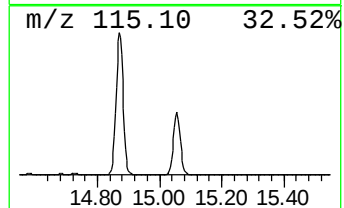
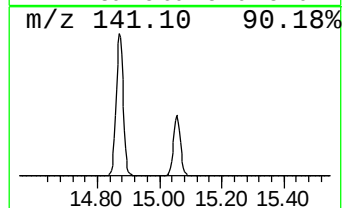
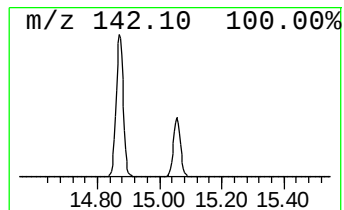
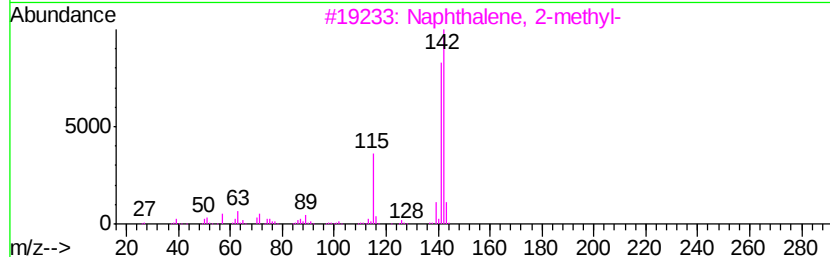
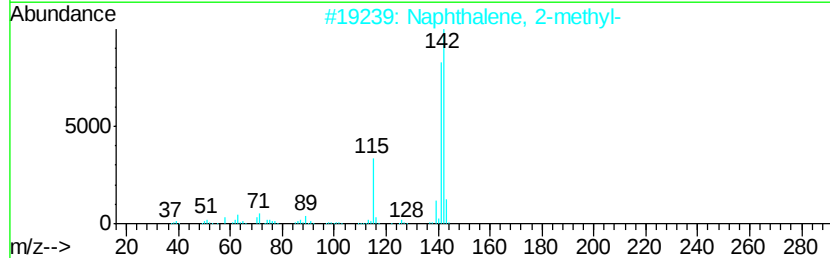
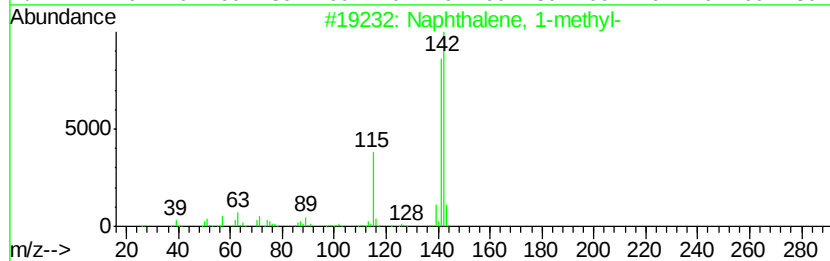
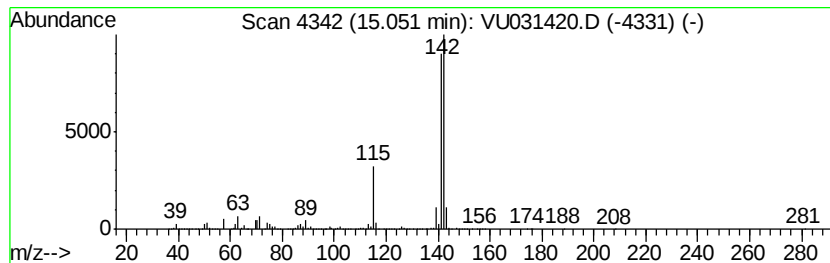
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 33 Naphthalene, 1-methyl- Concentration Rank 3

| R.T.  | EstConc     | Area    | Relative to ISTD       | R.T.  |
|-------|-------------|---------|------------------------|-------|
| 15.05 | 238.10 ug/L | 8732380 | 1,4-Dichlorobenzene-d4 | 11.48 |

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



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU042319\  
Data File : VU031420.D  
Acq On : 23 Apr 2019 03:31  
Operator : JC/SP  
Sample : K2481-06 50X  
Misc : 5.09µ/5mL/100µL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 29 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
GAHW1

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM042319WMA.M  
Quant Title : VOC Analysis

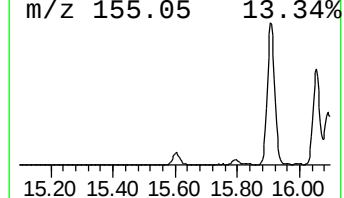
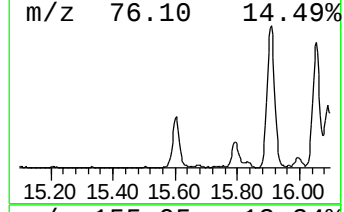
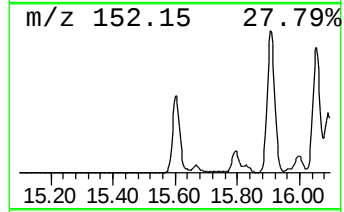
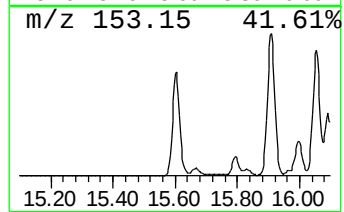
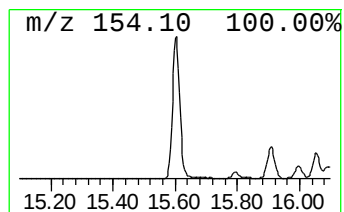
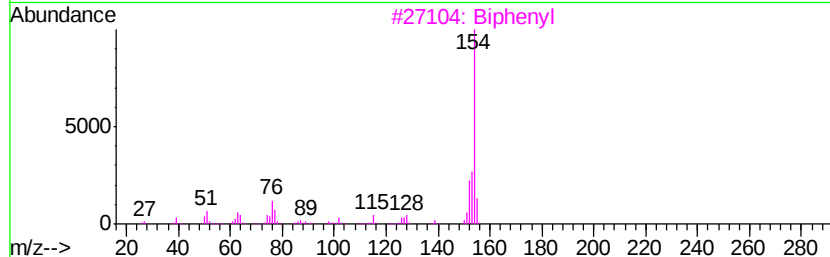
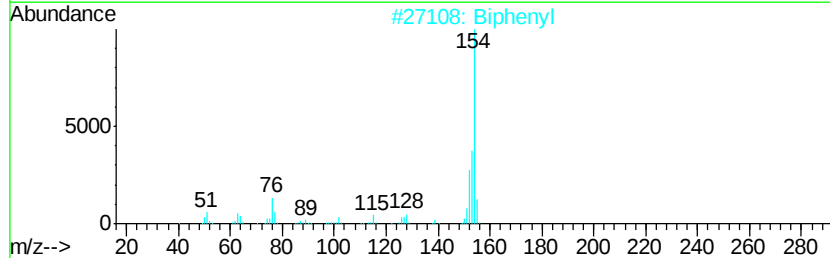
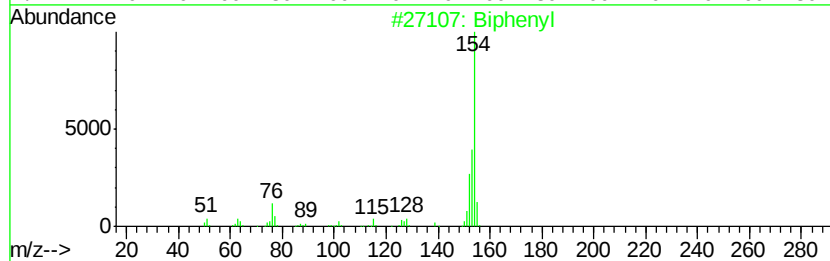
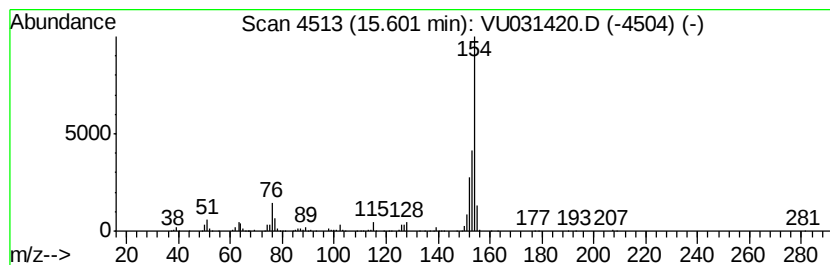
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 34 Biphenyl Concentration Rank 14

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 15.60 | 16.52 ug/L | 606009 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# | of | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------|-----|---------|-------------|------|
| 1    | 5  | Biphenyl                | 154 | C12H10  | 000092-52-4 | 95   |
| 2    |    | Biphenyl                | 154 | C12H10  | 000092-52-4 | 95   |
| 3    |    | Biphenyl                | 154 | C12H10  | 000092-52-4 | 94   |
| 4    |    | Biphenyl                | 154 | C12H10  | 000092-52-4 | 93   |
| 5    |    | Naphthalene, 2-ethenyl- | 154 | C12H10  | 000827-54-3 | 87   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU042319\  
Data File : VU031420.D  
Acq On : 23 Apr 2019 03:31  
Operator : JC/SP  
Sample : K2481-06 50X  
Misc : 5.09µ/5mL/100µL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 29 Sample Multiplier: 1

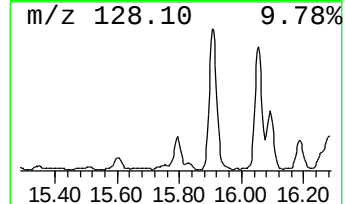
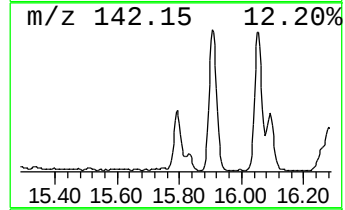
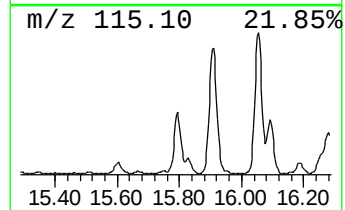
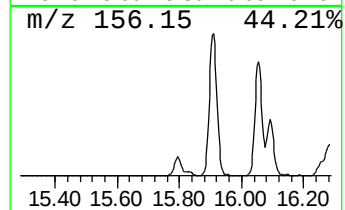
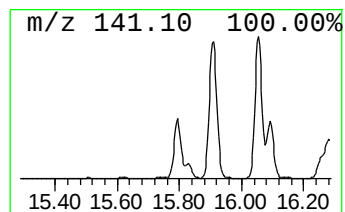
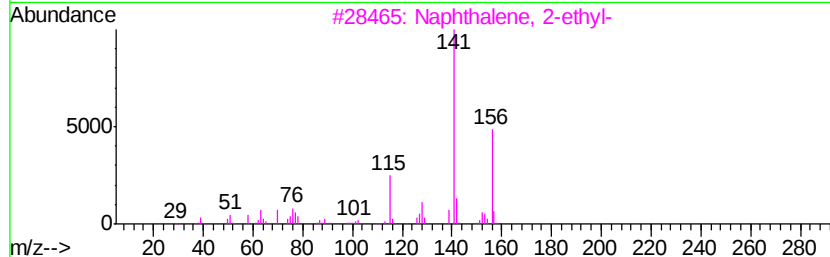
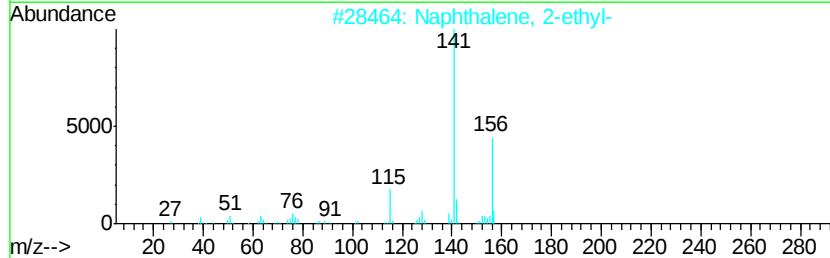
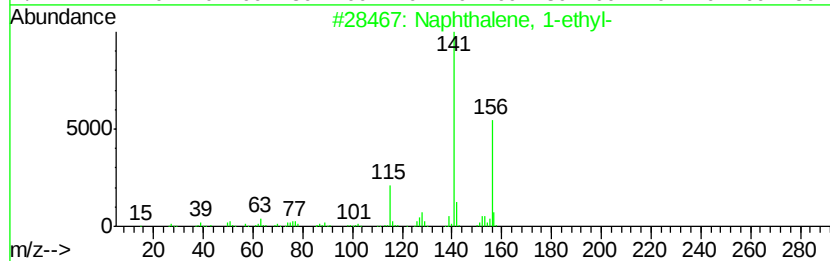
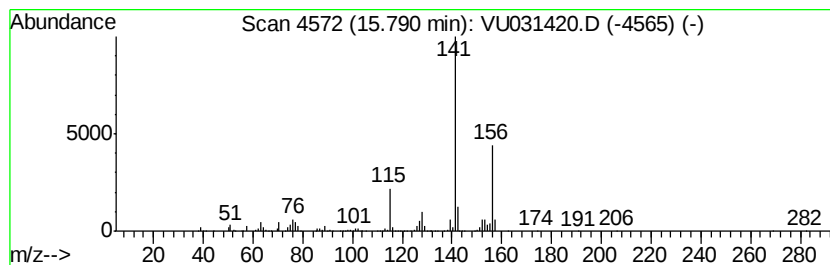
Instrument :  
MSVOA\_U  
ClientSampleId :  
GAHW1

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM042319WMA.M  
Quant Title : VOC Analysis

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

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Peak Number 35 Naphthalene, 1-ethyl- Concentration Rank 12

| R.T.      | EstConc               | Area   | Relative to ISTD       | R.T.        |      |
|-----------|-----------------------|--------|------------------------|-------------|------|
| 15.79     | 19.24 ug/L            | 705760 | 1,4-Dichlorobenzene-d4 | 11.48       |      |
| Hit# of 5 | Tentative ID          | MW     | MolForm                | CAS#        | Qual |
| 1         | Naphthalene, 1-ethyl- | 156    | C12H12                 | 001127-76-0 | 97   |
| 2         | Naphthalene, 2-ethyl- | 156    | C12H12                 | 000939-27-5 | 96   |
| 3         | Naphthalene, 2-ethyl- | 156    | C12H12                 | 000939-27-5 | 96   |
| 4         | Naphthalene, 1-ethyl- | 156    | C12H12                 | 001127-76-0 | 96   |
| 5         | Naphthalene, 2-ethyl- | 156    | C12H12                 | 000939-27-5 | 95   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU042319\  
Data File : VU031420.D  
Acq On : 23 Apr 2019 03:31  
Operator : JC/SP  
Sample : K2481-06 50X  
Misc : 5.09µ/5mL/100µL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 29 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
GAHW1

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM042319WMA.M  
Quant Title : VOC Analysis

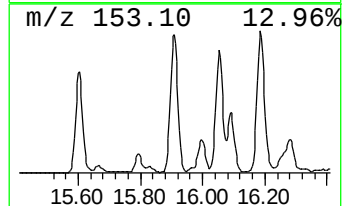
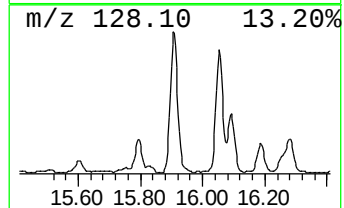
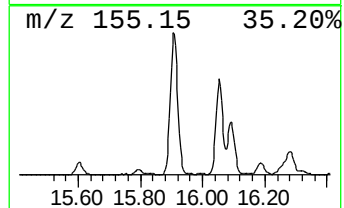
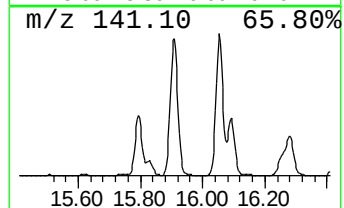
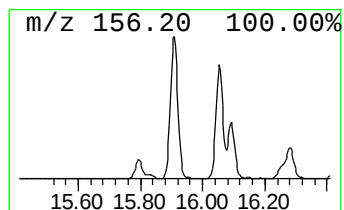
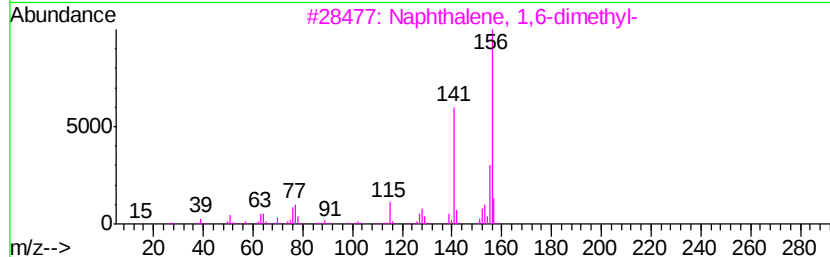
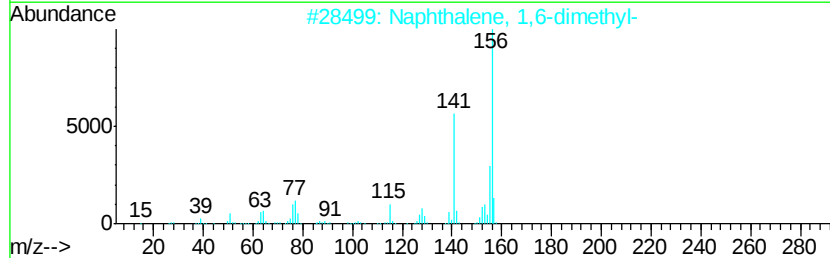
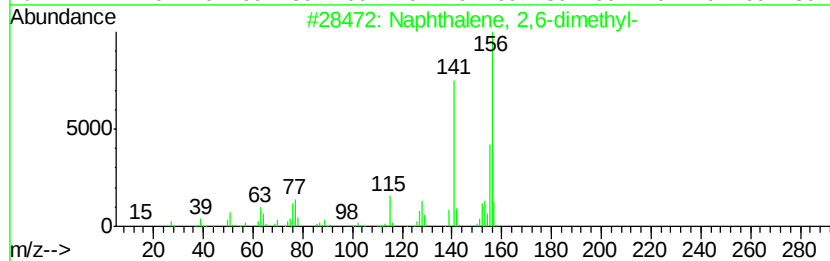
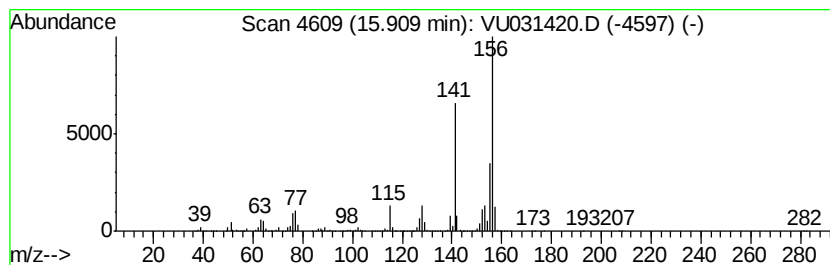
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 36 Naphthalene, 2,6-dimethyl- Concentration Rank 4

| R.T.  | EstConc     | Area    | Relative to ISTD       | R.T.  |
|-------|-------------|---------|------------------------|-------|
| 15.91 | 107.47 ug/L | 3941320 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# | of | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------|-----|---------|-------------|------|
| 1    | 5  | Naphthalene, 2,6-dimethyl- | 156 | C12H12  | 000581-42-0 | 98   |
| 2    |    | Naphthalene, 1,6-dimethyl- | 156 | C12H12  | 000575-43-9 | 97   |
| 3    |    | Naphthalene, 1,6-dimethyl- | 156 | C12H12  | 000575-43-9 | 97   |
| 4    |    | Naphthalene, 1,7-dimethyl- | 156 | C12H12  | 000575-37-1 | 97   |
| 5    |    | Naphthalene, 2,7-dimethyl- | 156 | C12H12  | 000582-16-1 | 97   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU042319\  
Data File : VU031420.D  
Acq On : 23 Apr 2019 03:31  
Operator : JC/SP  
Sample : K2481-06 50X  
Misc : 5.09g/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 29 Sample Multiplier: 1

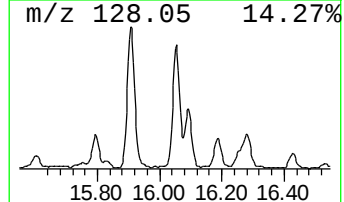
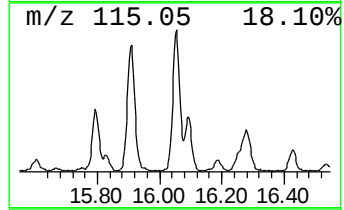
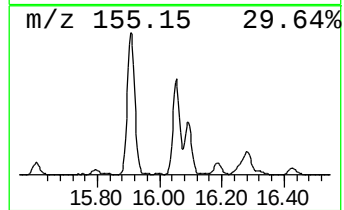
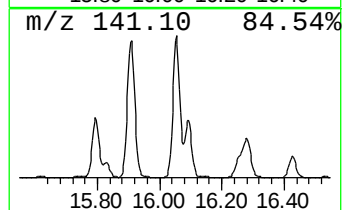
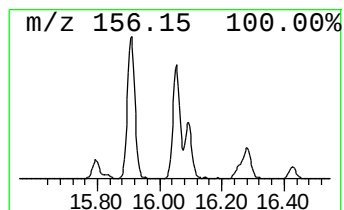
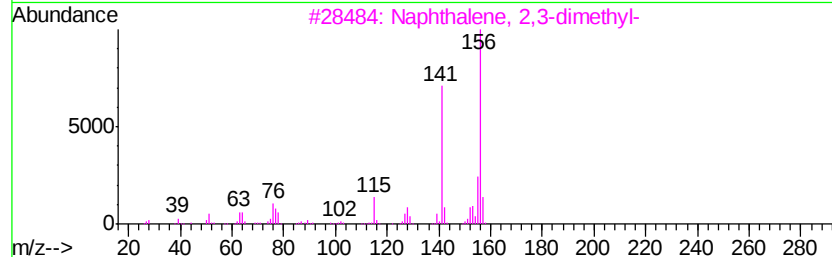
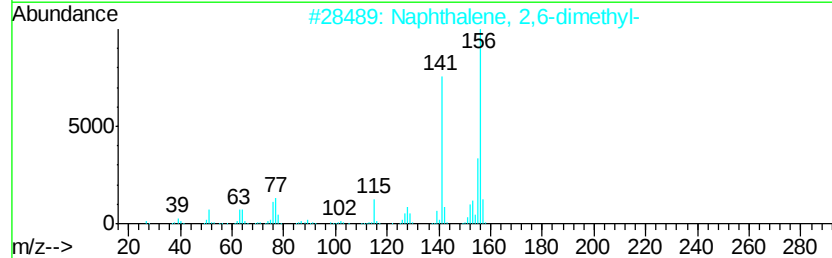
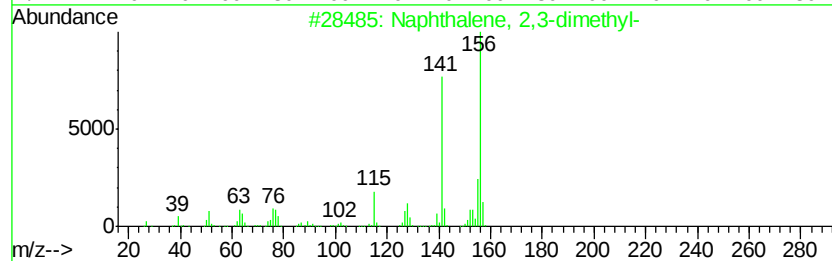
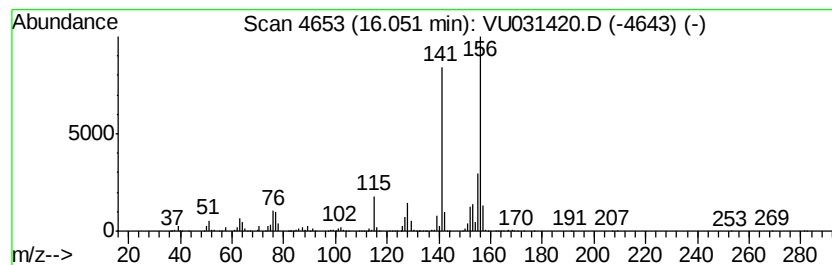
Instrument :  
MSVOA\_U  
ClientSampleId :  
GAHW1

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM042319WMA.M  
Quant Title : VOC Analysis

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

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Peak Number 37 Naphthalene, 2,3-dimethyl- Concentration Rank 5

| R.T.      | EstConc                    | Area    | Relative to ISTD       | R.T.        |      |
|-----------|----------------------------|---------|------------------------|-------------|------|
| 16.05     | 85.84 ug/L                 | 3148020 | 1,4-Dichlorobenzene-d4 | 11.48       |      |
| Hit# of 5 | Tentative ID               | MW      | MolForm                | CAS#        | Qual |
| 1         | Naphthalene, 2,3-dimethyl- | 156     | C12H12                 | 000581-40-8 | 97   |
| 2         | Naphthalene, 2,6-dimethyl- | 156     | C12H12                 | 000581-42-0 | 97   |
| 3         | Naphthalene, 2,3-dimethyl- | 156     | C12H12                 | 000581-40-8 | 97   |
| 4         | Naphthalene, 1,7-dimethyl- | 156     | C12H12                 | 000575-37-1 | 97   |
| 5         | Naphthalene, 1,4-dimethyl- | 156     | C12H12                 | 000571-58-4 | 97   |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_U\DATA\VU042319\  
 Data File : VU031420.D  
 Acq On : 23 Apr 2019 03:31  
 Operator : JC/SP  
 Sample : K2481-06 50X  
 Misc : 5.09g/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 GAHW1

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM042319WMA.M  
 Quant Title : VOC Analysis

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

| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
|                      |       |         |       |          | #                     | RT    | Resp    | Conc |
| Benzene, 1-ethyl-... | 10.68 | 16.3    | ug/L  | 596944   | 3                     | 11.48 | 1833740 | 50.0 |
| Benzene, 1,2,3-tr... | 10.77 | 7.1     | ug/L  | 260228   | 3                     | 11.48 | 1833740 | 50.0 |
| Benzene, 1-ethyl-... | 10.97 | 2.6     | ug/L  | 96302    | 3                     | 11.48 | 1833740 | 50.0 |
| Benzene, 1-etheny... | 11.21 | 18.6    | ug/L  | 683352   | 3                     | 11.48 | 1833740 | 50.0 |
| Benzene, cyclopro... | 11.26 | 6.1     | ug/L  | 224869   | 3                     | 11.48 | 1833740 | 50.0 |
| Benzene, 1-propenyl- | 11.63 | 2.8     | ug/L  | 102878   | 3                     | 11.48 | 1833740 | 50.0 |
| Benzene, 1,4-diet... | 11.77 | 3.9     | ug/L  | 141641   | 3                     | 11.48 | 1833740 | 50.0 |
| Indene               | 11.98 | 11.9    | ug/L  | 435977   | 3                     | 11.48 | 1833740 | 50.0 |
| o-Isopropenyltoluene | 12.22 | 3.1     | ug/L  | 114724   | 3                     | 11.48 | 1833740 | 50.0 |
| Benzene, 1-etheny... | 12.30 | 4.5     | ug/L  | 165814   | 3                     | 11.48 | 1833740 | 50.0 |
| Benzene, 1-etheny... | 12.42 | 15.9    | ug/L  | 584054   | 3                     | 11.48 | 1833740 | 50.0 |
| 2,4-Dimethylstyrene  | 12.48 | 5.1     | ug/L  | 185444   | 3                     | 11.48 | 1833740 | 50.0 |
| Benzene, 1,2,3,5-... | 12.65 | 3.6     | ug/L  | 132669   | 3                     | 11.48 | 1833740 | 50.0 |
| Benzene, 1,2,4,5-... | 12.70 | 11.1    | ug/L  | 408452   | 3                     | 11.48 | 1833740 | 50.0 |
| Benzene, 2-etheny... | 12.82 | 12.1    | ug/L  | 443295   | 3                     | 11.48 | 1833740 | 50.0 |
| 3-Phenylbut-1-ene    | 12.96 | 2.8     | ug/L  | 104217   | 3                     | 11.48 | 1833740 | 50.0 |
| 2-Methylindene       | 13.18 | 40.2    | ug/L  | 1473130  | 3                     | 11.48 | 1833740 | 50.0 |
| Benzene, (1-methy... | 13.29 | 47.5    | ug/L  | 1742440  | 3                     | 11.48 | 1833740 | 50.0 |
| Cycloprop[a]inden... | 13.39 | 7.1     | ug/L  | 260744   | 3                     | 11.48 | 1833740 | 50.0 |
| unknown-01           | 14.14 | 3.1     | ug/L  | 114714   | 3                     | 11.48 | 1833740 | 50.0 |
| (1-Methylbuta-1,3... | 14.28 | 3.5     | ug/L  | 128603   | 3                     | 11.48 | 1833740 | 50.0 |
| 1H-Indene, 1,3-di... | 14.33 | 11.1    | ug/L  | 407138   | 3                     | 11.48 | 1833740 | 50.0 |
| Bicyclo[4.4.1]und... | 14.58 | 3.9     | ug/L  | 144069   | 3                     | 11.48 | 1833740 | 50.0 |
| 1H-Indene, 1,1-di... | 14.73 | 7.3     | ug/L  | 267754   | 3                     | 11.48 | 1833740 | 50.0 |
| Benzo[b]thiophene... | 14.82 | 2.7     | ug/L  | 100379   | 3                     | 11.48 | 1833740 | 50.0 |
| Naphthalene, 1-me... | 15.05 | 238.1   | ug/L  | 8732380  | 3                     | 11.48 | 1833740 | 50.0 |
| Biphenyl             | 15.60 | 16.5    | ug/L  | 606009   | 3                     | 11.48 | 1833740 | 50.0 |
| Naphthalene, 1-et... | 15.79 | 19.2    | ug/L  | 705760   | 3                     | 11.48 | 1833740 | 50.0 |
| Naphthalene, 2,6-... | 15.91 | 107.5   | ug/L  | 3941320  | 3                     | 11.48 | 1833740 | 50.0 |
| Naphthalene, 2,3-... | 16.05 | 85.8    | ug/L  | 3148020  | 3                     | 11.48 | 1833740 | 50.0 |