

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU040419\  
 Data File : VU030631.D  
 Acq On : 03 Apr 2019 16:47  
 Operator : JC/SP  
 Sample : K2148-11  
 Misc : 4.46g/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BF5F8

## 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\SOMULM032319WMA.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         | 1.174       | 21            | 26          | 37           | rVB      | 14886          | 15961         | 0.29%           | 0.018%        |
| 2         | 1.392       | 87            | 94          | 109          | rVB      | 245799         | 279146        | 5.12%           | 0.310%        |
| 3         | 1.466       | 112           | 117         | 124          | rBV3     | 7746           | 12242         | 0.22%           | 0.014%        |
| 4         | 1.637       | 131           | 170         | 182          | rBV      | 278087         | 799860        | 14.68%          | 0.887%        |
| 5         | 2.241       | 347           | 358         | 373          | rVB      | 441008         | 673696        | 12.37%          | 0.747%        |
| 6         | 2.335       | 384           | 387         | 391          | rVB2     | 3080           | 2618          | 0.05%           | 0.003%        |
| 7         | 2.621       | 468           | 476         | 483          | rBV4     | 2960           | 5182          | 0.10%           | 0.006%        |
| 8         | 2.688       | 487           | 497         | 509          | rVB4     | 5838           | 11143         | 0.20%           | 0.012%        |
| 9         | 2.823       | 533           | 539         | 542          | rBV5     | 1710           | 1784          | 0.03%           | 0.002%        |
| 10        | 4.187       | 948           | 963         | 1007         | rBV      | 141325         | 478672        | 8.79%           | 0.531%        |
| 11        | 4.640       | 1083          | 1104        | 1135         | rBV      | 276722         | 693660        | 12.73%          | 0.769%        |
| 12        | 5.328       | 1296          | 1318        | 1341         | rBV2     | 635629         | 1819004       | 33.39%          | 2.017%        |
| 13        | 5.611       | 1396          | 1406        | 1407         | rBV4     | 3479           | 3625          | 0.07%           | 0.004%        |
| 14        | 5.878       | 1476          | 1489        | 1516         | rBV      | 590564         | 1226374       | 22.51%          | 1.360%        |
| 15        | 6.167       | 1572          | 1579        | 1581         | rBV4     | 2519           | 2135          | 0.04%           | 0.002%        |
| 16        | 6.251       | 1596          | 1605        | 1613         | rBV8     | 4320           | 7860          | 0.14%           | 0.009%        |
| 17        | 6.325       | 1613          | 1628        | 1648         | rBV      | 392804         | 824041        | 15.13%          | 0.914%        |
| 18        | 6.447       | 1662          | 1666        | 1667         | rBV3     | 2178           | 1357          | 0.02%           | 0.002%        |
| 19        | 6.469       | 1670          | 1673        | 1680         | rVB7     | 3688           | 3860          | 0.07%           | 0.004%        |
| 20        | 6.524       | 1686          | 1690        | 1699         | rVB9     | 3648           | 5990          | 0.11%           | 0.007%        |
| 21        | 6.723       | 1741          | 1752        | 1753         | rBV7     | 4086           | 4935          | 0.09%           | 0.005%        |
| 22        | 6.894       | 1794          | 1805        | 1822         | rBV7     | 8193           | 22383         | 0.41%           | 0.025%        |
| 23        | 7.026       | 1839          | 1846        | 1848         | rBV4     | 1771           | 1813          | 0.03%           | 0.002%        |
| 24        | 7.042       | 1848          | 1851        | 1859         | rVB6     | 2184           | 2068          | 0.04%           | 0.002%        |
| 25        | 7.100       | 1860          | 1869        | 1876         | rBV3     | 3448           | 4725          | 0.09%           | 0.005%        |
| 26        | 7.225       | 1896          | 1908        | 1927         | rBV      | 213623         | 422783        | 7.76%           | 0.469%        |
| 27        | 7.421       | 1956          | 1969        | 1980         | rBV      | 3848           | 9432          | 0.17%           | 0.010%        |
| 28        | 7.521       | 1984          | 2000        | 2001         | rBV3     | 37375          | 44095         | 0.81%           | 0.049%        |
| 29        | 7.559       | 2002          | 2012        | 2030         | rVB      | 772461         | 1386303       | 25.45%          | 1.537%        |
| 30        | 7.698       | 2050          | 2055        | 2064         | rVB7     | 12715          | 18530         | 0.34%           | 0.021%        |
| 31        | 7.765       | 2071          | 2076        | 2091         | rVB6     | 11639          | 22913         | 0.42%           | 0.025%        |
| 32        | 7.849       | 2091          | 2102        | 2113         | rBV      | 148310         | 275297        | 5.05%           | 0.305%        |
| 33        | 7.910       | 2114          | 2121        | 2136         | rVB3     | 56475          | 106797        | 1.96%           | 0.118%        |
| 34        | 8.038       | 2148          | 2161        | 2171         | rBV5     | 24155          | 45301         | 0.83%           | 0.050%        |

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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\SOMULM032319WMA.M  
 Title : VOC Analysis

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 35 | 8.096  | 2173 | 2179 | 2181 | rBV4 | 5130    | 5164    | 0.09%  | 0.006% |
| 36 | 8.154  | 2193 | 2197 | 2207 | rVB4 | 13118   | 20713   | 0.38%  | 0.023% |
| 37 | 8.222  | 2207 | 2218 | 2231 | rVB4 | 21855   | 41690   | 0.77%  | 0.046% |
| 38 | 8.318  | 2231 | 2248 | 2278 | rBV2 | 675060  | 1297501 | 23.82% | 1.439% |
| 39 | 8.450  | 2279 | 2289 | 2294 | rBV2 | 74795   | 131532  | 2.41%  | 0.146% |
| 40 | 8.540  | 2307 | 2317 | 2326 | rVB3 | 89857   | 156247  | 2.87%  | 0.173% |
| 41 | 8.601  | 2326 | 2336 | 2345 | rBV2 | 179507  | 318472  | 5.85%  | 0.353% |
| 42 | 8.646  | 2346 | 2350 | 2369 | rVB6 | 56237   | 126155  | 2.32%  | 0.140% |
| 43 | 8.752  | 2373 | 2383 | 2392 | rBV6 | 44688   | 76571   | 1.41%  | 0.085% |
| 44 | 8.813  | 2392 | 2402 | 2403 | rBV3 | 57231   | 71521   | 1.31%  | 0.079% |
| 45 | 8.842  | 2404 | 2411 | 2440 | rVB5 | 181071  | 415410  | 7.63%  | 0.461% |
| 46 | 8.974  | 2444 | 2452 | 2458 | rBV8 | 6697    | 9678    | 0.18%  | 0.011% |
| 47 | 9.022  | 2458 | 2467 | 2471 | rBV7 | 14825   | 23763   | 0.44%  | 0.026% |
| 48 | 9.087  | 2476 | 2487 | 2504 | rBV  | 911825  | 1594128 | 29.27% | 1.768% |
| 49 | 9.241  | 2525 | 2535 | 2549 | rVB5 | 102021  | 196647  | 3.61%  | 0.218% |
| 50 | 9.350  | 2550 | 2569 | 2575 | rBV5 | 195062  | 427646  | 7.85%  | 0.474% |
| 51 | 9.399  | 2576 | 2584 | 2591 | rVV2 | 395159  | 595975  | 10.94% | 0.661% |
| 52 | 9.440  | 2591 | 2597 | 2622 | rVB2 | 278112  | 615060  | 11.29% | 0.682% |
| 53 | 9.563  | 2622 | 2635 | 2648 | rBV3 | 144749  | 282449  | 5.19%  | 0.313% |
| 54 | 9.646  | 2652 | 2661 | 2667 | rBV3 | 77062   | 130480  | 2.40%  | 0.145% |
| 55 | 9.714  | 2667 | 2682 | 2700 | rBV6 | 566295  | 1471538 | 27.02% | 1.632% |
| 56 | 9.810  | 2701 | 2712 | 2720 | rBV4 | 144390  | 269711  | 4.95%  | 0.299% |
| 57 | 9.865  | 2724 | 2729 | 2736 | rVB3 | 166304  | 218773  | 4.02%  | 0.243% |
| 58 | 9.948  | 2736 | 2755 | 2764 | rBV3 | 1273828 | 2516240 | 46.19% | 2.790% |
| 59 | 10.038 | 2764 | 2783 | 2792 | rBV3 | 1283417 | 2646248 | 48.58% | 2.934% |
| 60 | 10.151 | 2810 | 2818 | 2829 | rVB5 | 249196  | 480732  | 8.83%  | 0.533% |
| 61 | 10.218 | 2829 | 2839 | 2845 | rBV4 | 375645  | 707240  | 12.98% | 0.784% |
| 62 | 10.373 | 2877 | 2887 | 2894 | rBV4 | 319849  | 517798  | 9.51%  | 0.574% |
| 63 | 10.431 | 2894 | 2905 | 2913 | rBV  | 699424  | 1364177 | 25.04% | 1.513% |
| 64 | 10.485 | 2915 | 2922 | 2932 | rVB4 | 861601  | 1442093 | 26.47% | 1.599% |
| 65 | 10.636 | 2958 | 2969 | 2978 | rBV5 | 480985  | 1079891 | 19.83% | 1.197% |
| 66 | 10.694 | 2979 | 2987 | 2996 | rVV4 | 601251  | 1101533 | 20.22% | 1.221% |
| 67 | 10.749 | 2996 | 3004 | 3013 | rVV2 | 1143247 | 1764848 | 32.40% | 1.957% |
| 68 | 10.807 | 3013 | 3022 | 3032 | rVB5 | 719401  | 1363531 | 25.03% | 1.512% |
| 69 | 10.968 | 3065 | 3072 | 3076 | rBV3 | 308806  | 492883  | 9.05%  | 0.547% |
| 70 | 11.112 | 3111 | 3117 | 3119 | rBV4 | 178645  | 209445  | 3.85%  | 0.232% |
| 71 | 11.267 | 3154 | 3165 | 3173 | rBV4 | 737139  | 1568073 | 28.79% | 1.739% |

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Instrument :  
MSVOA\_U  
ClientSampleId :  
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## Integration Parameters: LSCINT.P

Integrator: RTE  
Smoothing : OFF  
Sampling : 1  
Start Thrs: 0.2  
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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\SOMULM032319WMA.M  
Title : VOC Analysis

|     |        |      |      |      |       |         |         |         |        |
|-----|--------|------|------|------|-------|---------|---------|---------|--------|
| 72  | 11.392 | 3196 | 3204 | 3212 | rBV2  | 1412003 | 2037477 | 37.41%  | 2.259% |
| 73  | 11.479 | 3224 | 3231 | 3239 | rBV   | 1056879 | 1586871 | 29.13%  | 1.760% |
| 74  | 11.662 | 3282 | 3288 | 3296 | rVB4  | 508014  | 726204  | 13.33%  | 0.805% |
| 75  | 11.778 | 3316 | 3324 | 3338 | rBV10 | 375502  | 936278  | 17.19%  | 1.038% |
| 76  | 11.855 | 3339 | 3348 | 3367 | rVB3  | 2483252 | 4994557 | 91.69%  | 5.538% |
| 77  | 12.009 | 3391 | 3396 | 3405 | rVB3  | 560663  | 829903  | 15.24%  | 0.920% |
| 78  | 12.064 | 3407 | 3413 | 3432 | rVB6  | 969896  | 2499882 | 45.89%  | 2.772% |
| 79  | 12.180 | 3438 | 3449 | 3457 | rBV7  | 1116249 | 2238112 | 41.09%  | 2.482% |
| 80  | 12.508 | 3538 | 3551 | 3571 | rVB6  | 2277075 | 5447033 | 100.00% | 6.040% |
| 81  | 12.607 | 3572 | 3582 | 3589 | rBV2  | 2623316 | 4528255 | 83.13%  | 5.021% |
| 82  | 12.720 | 3608 | 3617 | 3629 | rBV4  | 1757047 | 3063974 | 56.25%  | 3.398% |
| 83  | 12.781 | 3630 | 3636 | 3657 | rVB9  | 793579  | 1694813 | 31.11%  | 1.879% |
| 84  | 12.878 | 3659 | 3666 | 3679 | rBV4  | 753746  | 1462808 | 26.86%  | 1.622% |
| 85  | 13.125 | 3735 | 3743 | 3747 | rBV6  | 1189985 | 2013863 | 36.97%  | 2.233% |
| 86  | 13.405 | 3823 | 3830 | 3838 | rBV3  | 946778  | 1378261 | 25.30%  | 1.528% |
| 87  | 13.508 | 3855 | 3862 | 3868 | rBV2  | 664966  | 995087  | 18.27%  | 1.103% |
| 88  | 13.726 | 3921 | 3930 | 3940 | rVB3  | 2446395 | 4220577 | 77.48%  | 4.680% |
| 89  | 13.787 | 3941 | 3949 | 3958 | rBV4  | 1400710 | 2404494 | 44.14%  | 2.666% |
| 90  | 13.881 | 3972 | 3978 | 3986 | rBV2  | 1154295 | 1539455 | 28.26%  | 1.707% |
| 91  | 15.659 | 4525 | 4531 | 4541 | rVB5  | 535080  | 853097  | 15.66%  | 0.946% |
| 92  | 15.910 | 4598 | 4609 | 4623 | rBV   | 1527698 | 2877600 | 52.83%  | 3.191% |
| 93  | 16.054 | 4647 | 4654 | 4661 | rBV   | 1194337 | 1743218 | 32.00%  | 1.933% |
| 94  | 16.096 | 4662 | 4667 | 4684 | rVB3  | 857002  | 1550187 | 28.46%  | 1.719% |
| 95  | 16.530 | 4797 | 4802 | 4815 | rVB6  | 181066  | 302893  | 5.56%   | 0.336% |
| 96  | 16.765 | 4869 | 4875 | 4888 | rVB2  | 449679  | 746493  | 13.70%  | 0.828% |
| 97  | 16.967 | 4932 | 4938 | 4946 | rVV3  | 440770  | 639827  | 11.75%  | 0.710% |
| 98  | 17.012 | 4946 | 4952 | 4968 | rVB   | 497812  | 790839  | 14.52%  | 0.877% |
| 99  | 17.164 | 4992 | 4999 | 5009 | rVB   | 312551  | 486696  | 8.94%   | 0.540% |
| 100 | 17.225 | 5010 | 5018 | 5027 | rBV2  | 354990  | 603516  | 11.08%  | 0.669% |

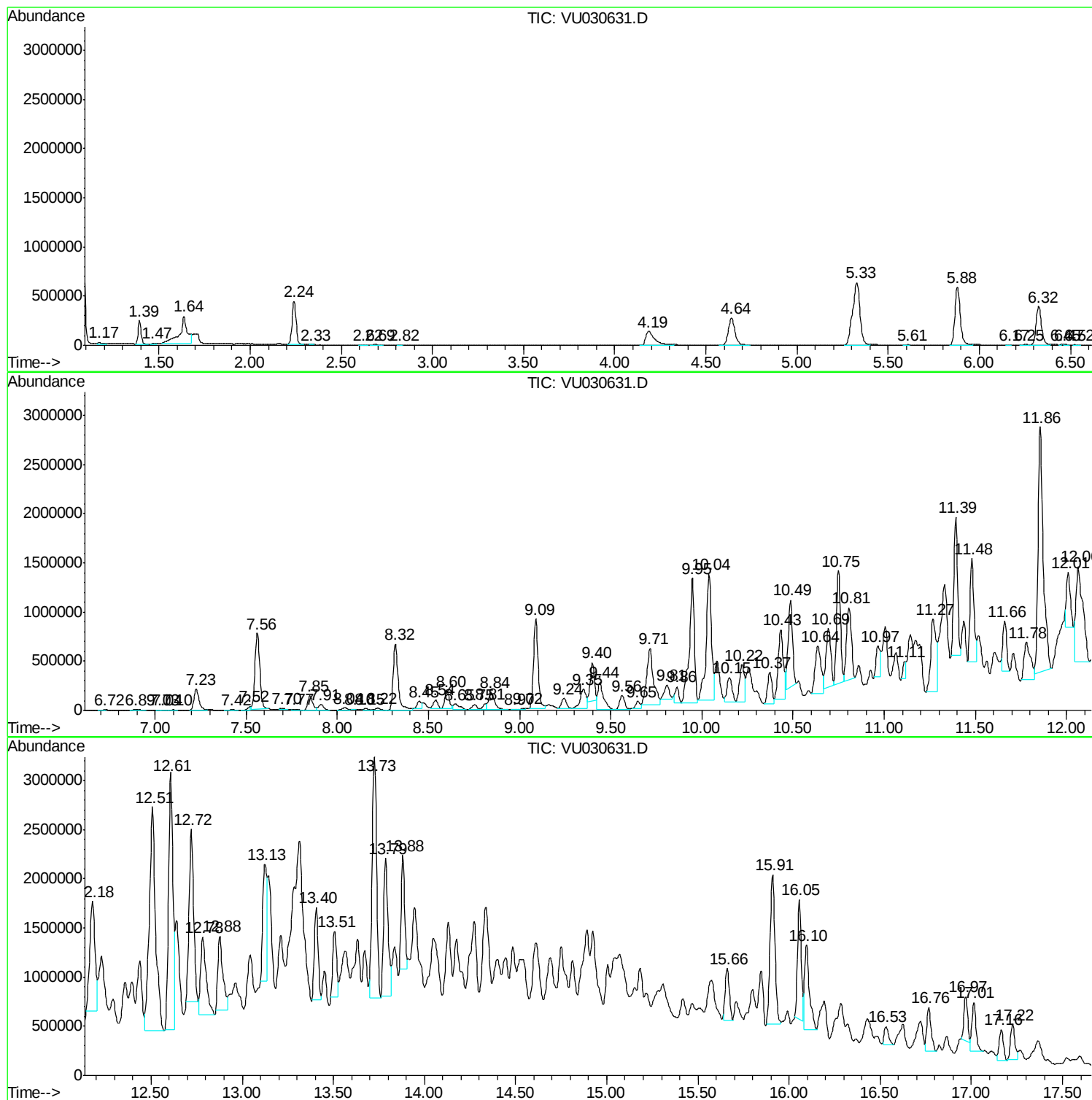
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM032319WMA.M  
Quant Title : VOC Analysis

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



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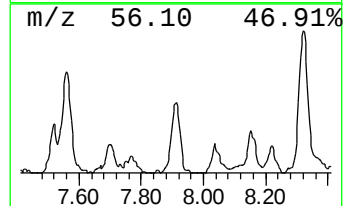
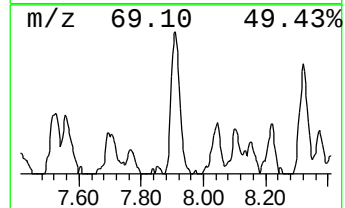
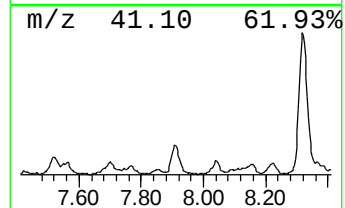
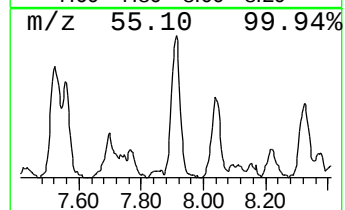
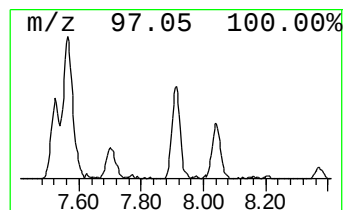
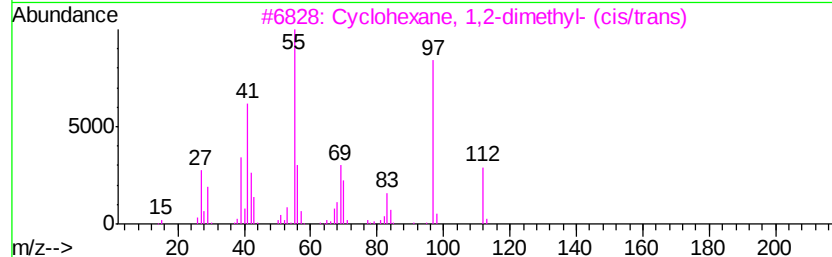
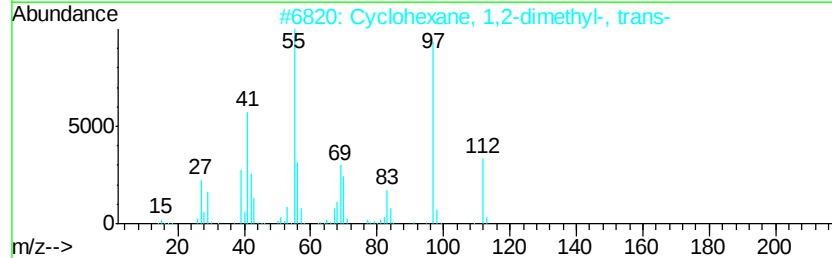
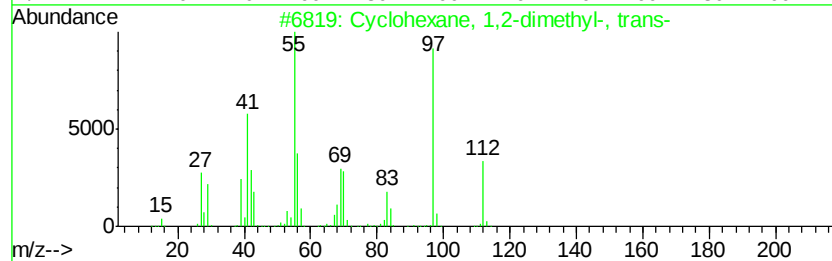
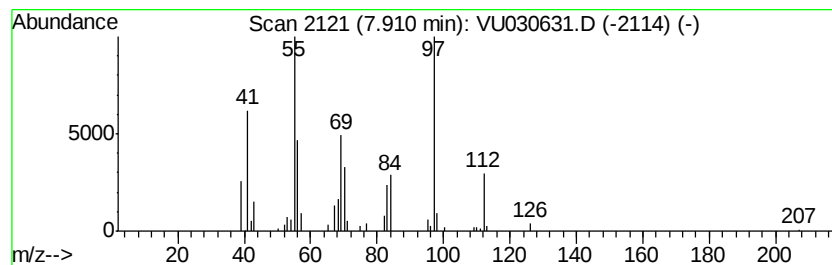
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 2 (DEL) Alkane: Cyclic7.91 Concentration Rank 56

| R.T. | EstConc   | Area   | Relative to ISTD | R.T. |
|------|-----------|--------|------------------|------|
| 7.91 | 3.35 ug/L | 106797 | Chlorobenzene-d5 | 9.09 |

| Hit# | of | Tentative ID                         | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Cyclohexane, 1,2-dimethyl-, trans-   | 112 | C8H16   | 006876-23-9 | 93   |
| 2    |    | Cyclohexane, 1,2-dimethyl-, trans-   | 112 | C8H16   | 006876-23-9 | 90   |
| 3    |    | Cyclohexane, 1,2-dimethyl-, (cis/... | 112 | C8H16   | 000583-57-3 | 90   |
| 4    |    | Cyclohexane, 1,2-dimethyl-, trans-   | 112 | C8H16   | 006876-23-9 | 90   |
| 5    |    | Cyclohexane, 1,2-dimethyl-, (cis/... | 112 | C8H16   | 000583-57-3 | 87   |



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Quant Title : VOC Analysis

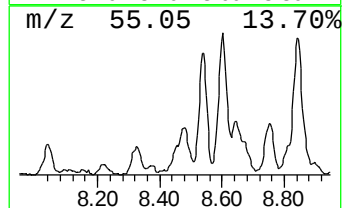
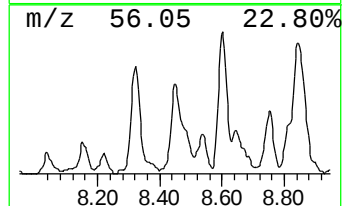
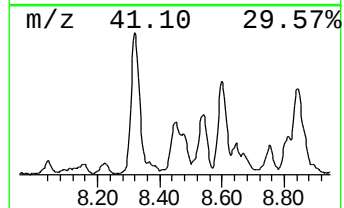
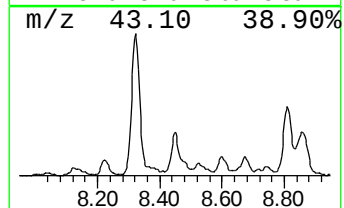
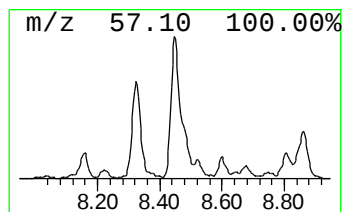
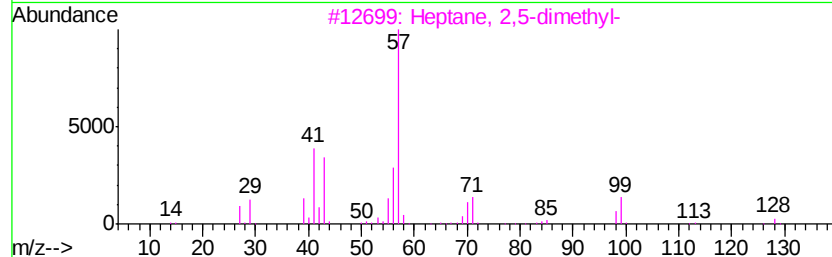
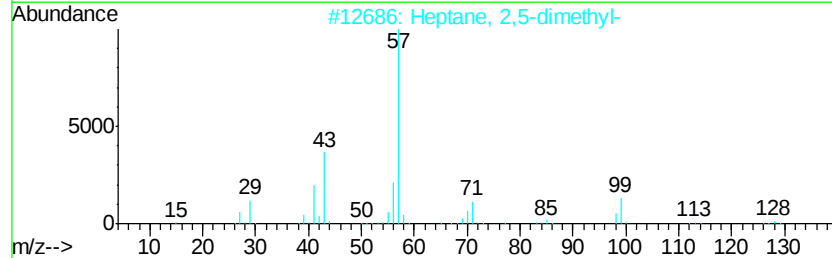
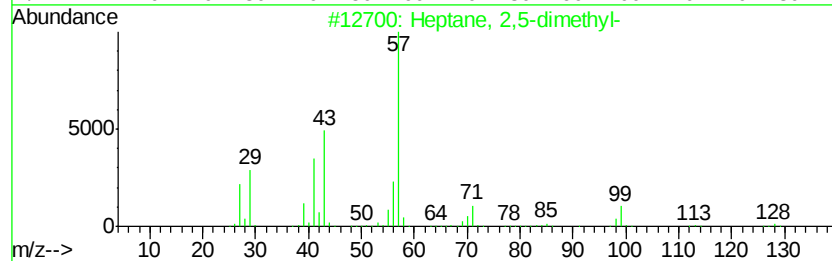
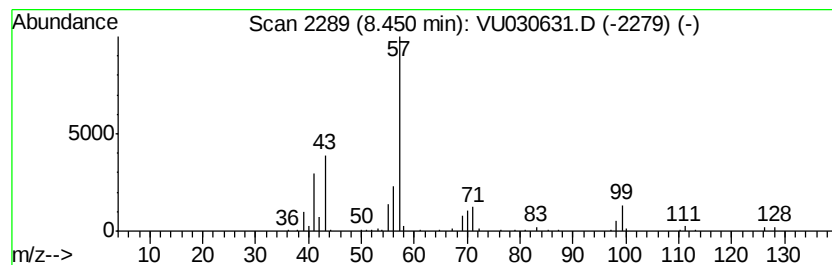
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 3 (DEL) Alkane: Straight-Chai... Concentration Rank 53

| R.T. | EstConc   | Area   | Relative to ISTD | R.T. |
|------|-----------|--------|------------------|------|
| 8.45 | 4.13 ug/L | 131532 | Chlorobenzene-d5 | 9.09 |

| Hit# | of | Tentative ID           | MW  | MolForm | CAS#        | Qual |
|------|----|------------------------|-----|---------|-------------|------|
| 1    | 5  | Heptane, 2,5-dimethyl- | 128 | C9H20   | 002216-30-0 | 86   |
| 2    |    | Heptane, 2,5-dimethyl- | 128 | C9H20   | 002216-30-0 | 86   |
| 3    |    | Heptane, 2,5-dimethyl- | 128 | C9H20   | 002216-30-0 | 72   |
| 4    |    | Heptane, 3,5-dimethyl- | 128 | C9H20   | 000926-82-9 | 72   |
| 5    |    | Octane, 3-methyl-      | 128 | C9H20   | 002216-33-3 | 64   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU040419\  
Data File : VU030631.D  
Acq On : 03 Apr 2019 16:47  
Operator : JC/SP  
Sample : K2148-11  
Misc : 4.46µ/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
BF5F8

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM032319WMA.M  
Quant Title : VOC Analysis

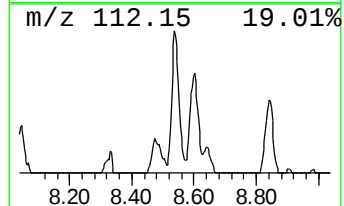
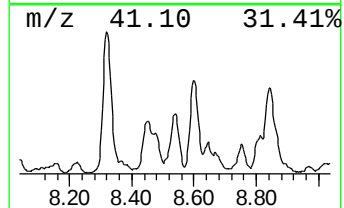
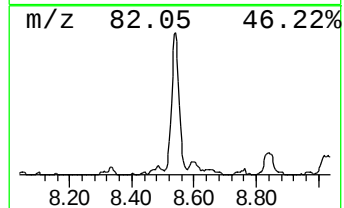
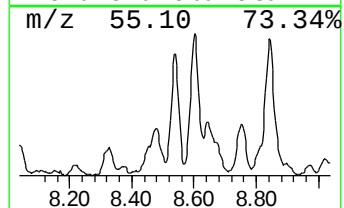
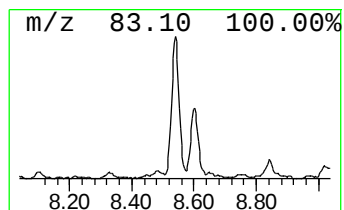
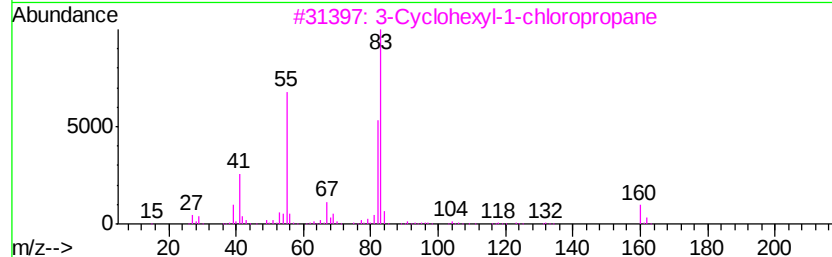
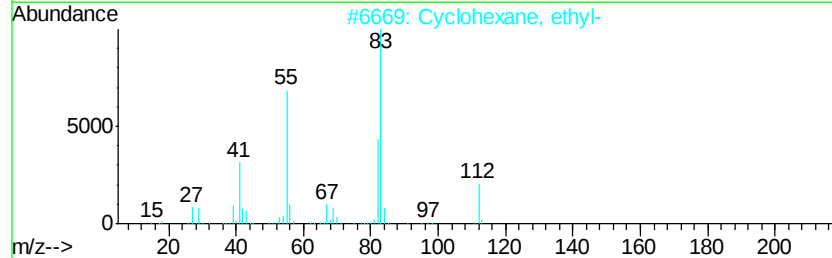
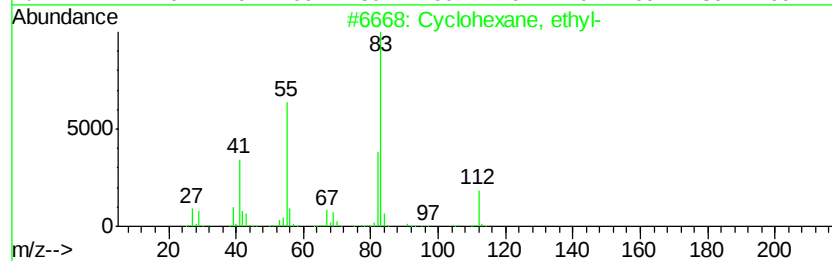
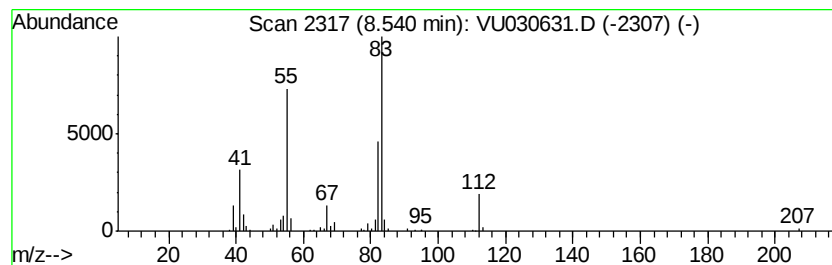
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 4 (DEL) Alkane: Cyclic8.54 Concentration Rank 52

| R.T. | EstConc   | Area   | Relative to ISTD | R.T. |
|------|-----------|--------|------------------|------|
| 8.54 | 4.90 ug/L | 156247 | Chlorobenzene-d5 | 9.09 |

| Hit# | of | Tentative ID                  | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------|-----|---------|-------------|------|
| 1    | 5  | Cyclohexane, ethyl-           | 112 | C8H16   | 001678-91-7 | 91   |
| 2    |    | Cyclohexane, ethyl-           | 112 | C8H16   | 001678-91-7 | 87   |
| 3    |    | 3-Cyclohexyl-1-chloropropane  | 160 | C9H17Cl | 001124-62-5 | 72   |
| 4    |    | 2-Hexene, 2,3-dimethyl-       | 112 | C8H16   | 007145-20-2 | 59   |
| 5    |    | 3-Hexene, 3,4-dimethyl-, (Z)- | 112 | C8H16   | 019550-87-9 | 58   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU040419\  
Data File : VU030631.D  
Acq On : 03 Apr 2019 16:47  
Operator : JC/SP  
Sample : K2148-11  
Misc : 4.46uL/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
BF5F8

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM032319WMA.M  
Quant Title : VOC Analysis

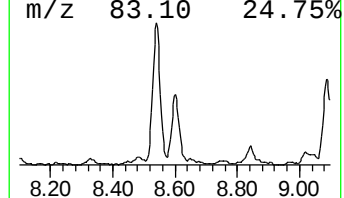
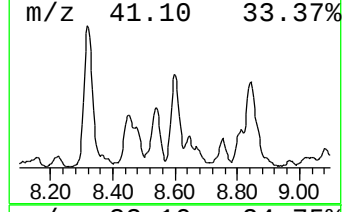
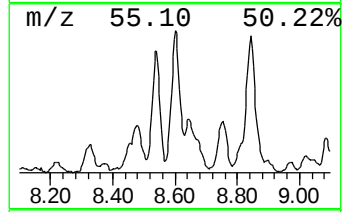
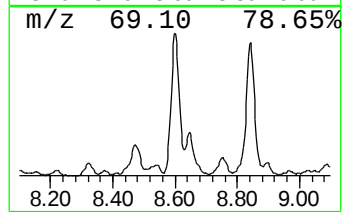
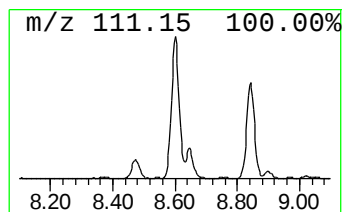
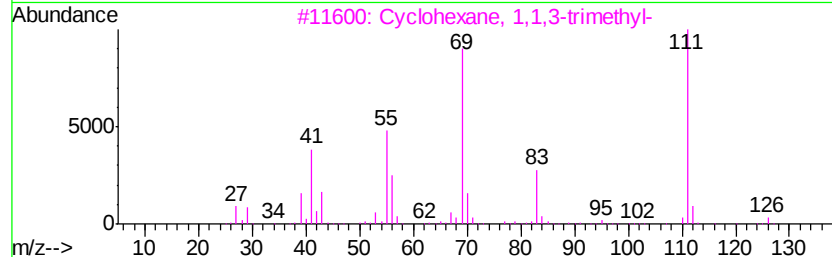
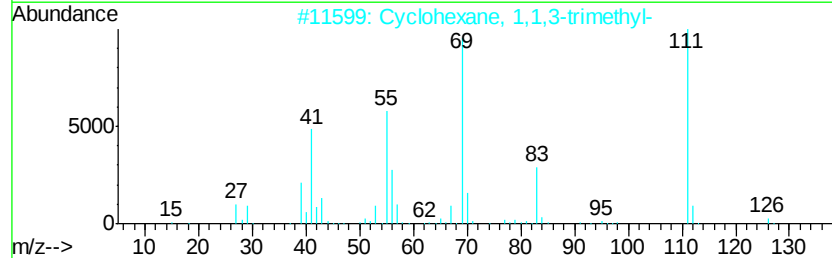
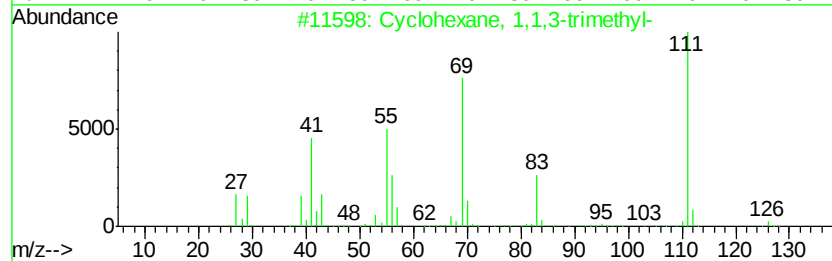
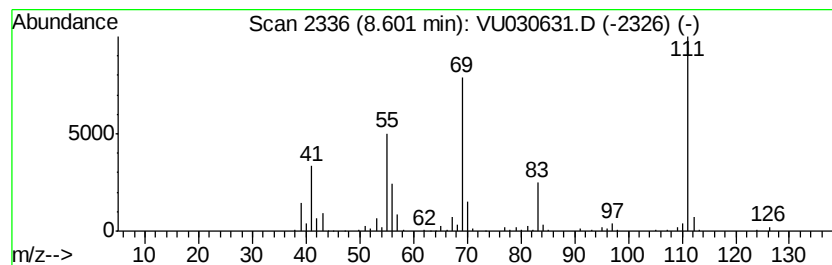
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 5 (DEL) Alkane: Cyclic8.60 Concentration Rank 45

| R.T. | EstConc   | Area   | Relative to ISTD | R.T. |
|------|-----------|--------|------------------|------|
| 8.60 | 9.99 ug/L | 318472 | Chlorobenzene-d5 | 9.09 |

| Hit# | of | Tentative ID                  | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------|-----|---------|-------------|------|
| 1    | 5  | Cyclohexane, 1,1,3-trimethyl- | 126 | C9H18   | 003073-66-3 | 97   |
| 2    |    | Cyclohexane, 1,1,3-trimethyl- | 126 | C9H18   | 003073-66-3 | 97   |
| 3    |    | Cyclohexane, 1,1,3-trimethyl- | 126 | C9H18   | 003073-66-3 | 95   |
| 4    |    | Cyclohexane, 1,1,3-trimethyl- | 126 | C9H18   | 003073-66-3 | 93   |
| 5    |    | Cyclohexane, 1,3,5-trimethyl- | 126 | C9H18   | 001839-63-0 | 64   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU040419\  
Data File : VU030631.D  
Acq On : 03 Apr 2019 16:47  
Operator : JC/SP  
Sample : K2148-11  
Misc : 4.46µL/5mL/100µL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
BF5F8

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM032319WMA.M  
Quant Title : VOC Analysis

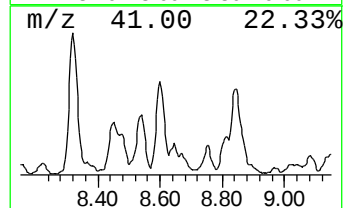
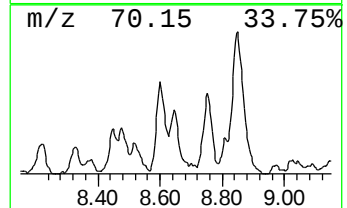
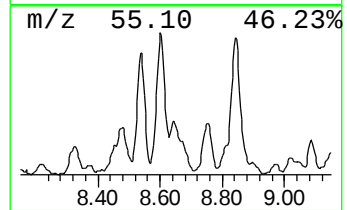
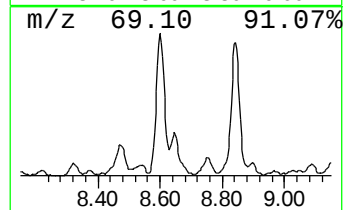
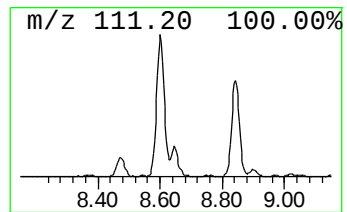
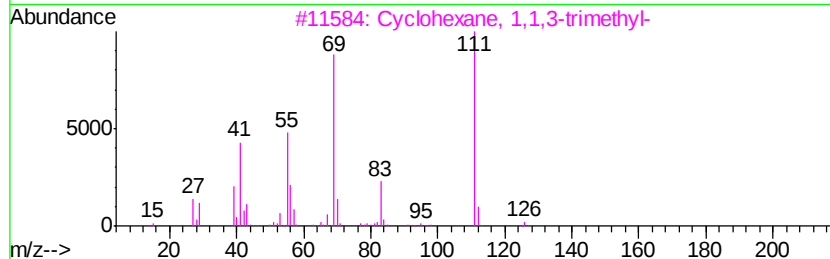
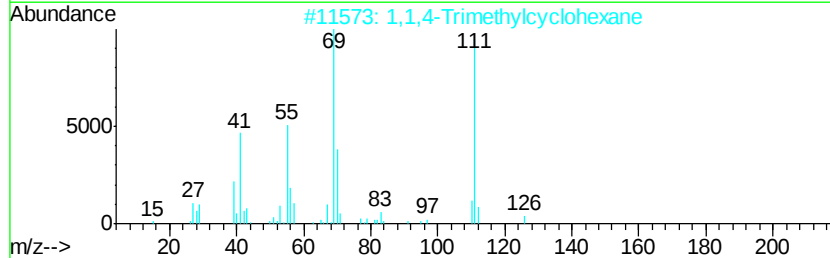
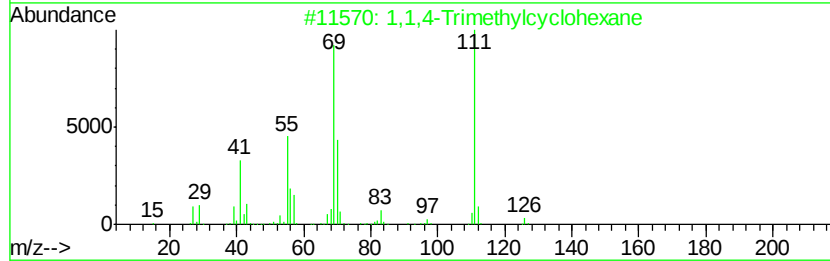
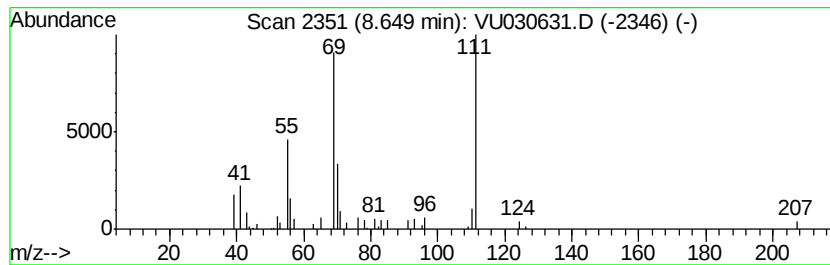
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 6 (DEL) Alkane: Cyclic8.65 Concentration Rank 55

| R.T. | EstConc   | Area   | Relative to ISTD | R.T. |
|------|-----------|--------|------------------|------|
| 8.65 | 3.96 ug/L | 126155 | Chlorobenzene-d5 | 9.09 |

| Hit# | of | Tentative ID                  | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------|-----|---------|-------------|------|
| 1    | 5  | 1,1,4-Trimethylcyclohexane    | 126 | C9H18   | 007094-27-1 | 80   |
| 2    |    | 1,1,4-Trimethylcyclohexane    | 126 | C9H18   | 007094-27-1 | 53   |
| 3    |    | Cyclohexane, 1,1,3-trimethyl- | 126 | C9H18   | 003073-66-3 | 50   |
| 4    |    | Oxazole, trimethyl-           | 111 | C6H9NO  | 020662-84-4 | 46   |
| 5    |    | Cyclohexane, 1,1,3-trimethyl- | 126 | C9H18   | 003073-66-3 | 45   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU040419\  
Data File : VU030631.D  
Acq On : 03 Apr 2019 16:47  
Operator : JC/SP  
Sample : K2148-11  
Misc : 4.46g/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
BF5F8

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM032319WMA.M  
Quant Title : VOC Analysis

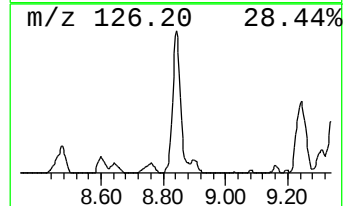
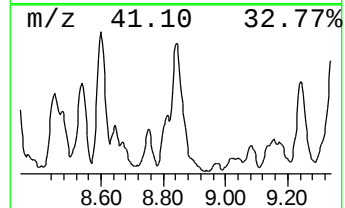
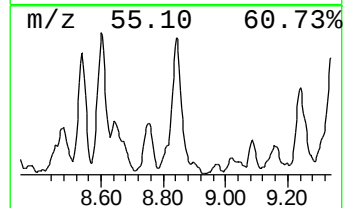
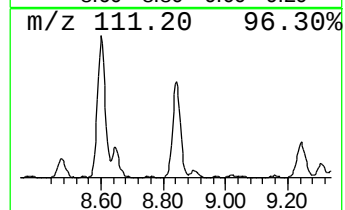
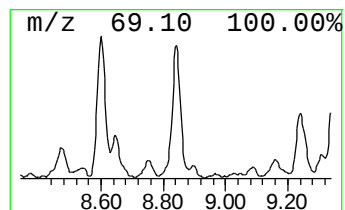
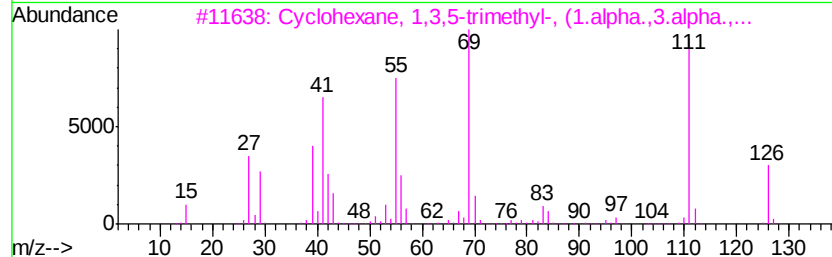
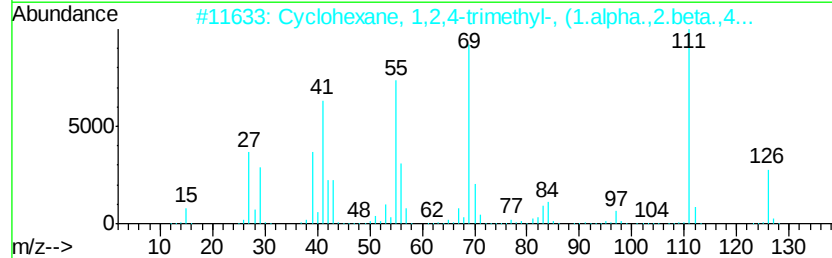
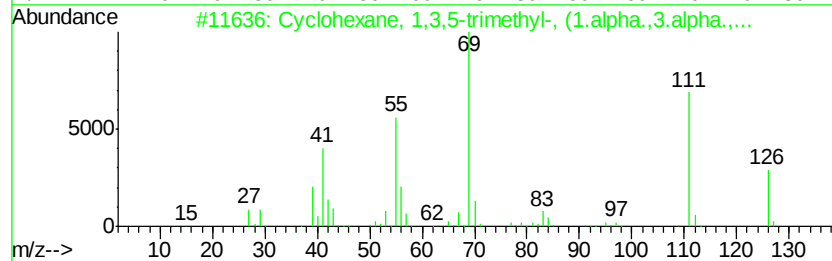
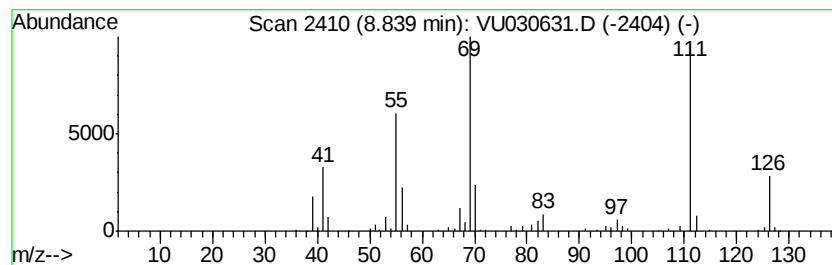
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 (DEL) Alkane: Cyclic8.84 Concentration Rank 44

| R.T. | EstConc    | Area   | Relative to ISTD | R.T. |
|------|------------|--------|------------------|------|
| 8.84 | 13.03 ug/L | 415410 | Chlorobenzene-d5 | 9.09 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Cyclohexane, 1,3,5-trimethyl-, (... | 126 | C9H18   | 001795-26-2 | 91   |
| 2    |    | Cyclohexane, 1,2,4-trimethyl-, (... | 126 | C9H18   | 007667-60-9 | 90   |
| 3    |    | Cyclohexane, 1,3,5-trimethyl-, (... | 126 | C9H18   | 001795-26-2 | 90   |
| 4    |    | Cyclohexane, 1,2,4-trimethyl-, (... | 126 | C9H18   | 002234-75-5 | 90   |
| 5    |    | Cyclohexane, 1,2,4-trimethyl-, (... | 126 | C9H18   | 007667-60-9 | 87   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU040419\  
Data File : VU030631.D  
Acq On : 03 Apr 2019 16:47  
Operator : JC/SP  
Sample : K2148-11  
Misc : 4.46µ/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 7 Sample Multiplier: 1

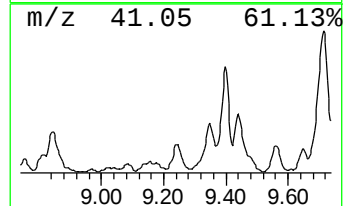
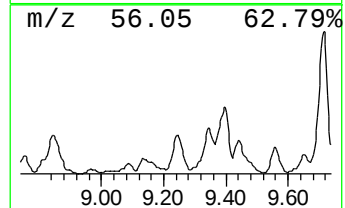
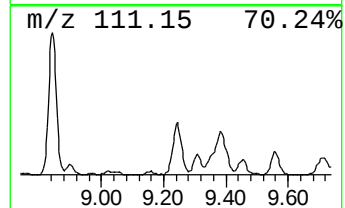
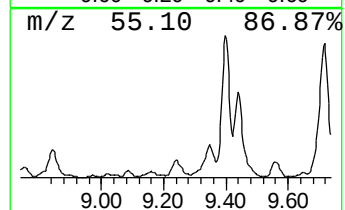
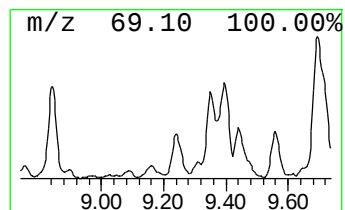
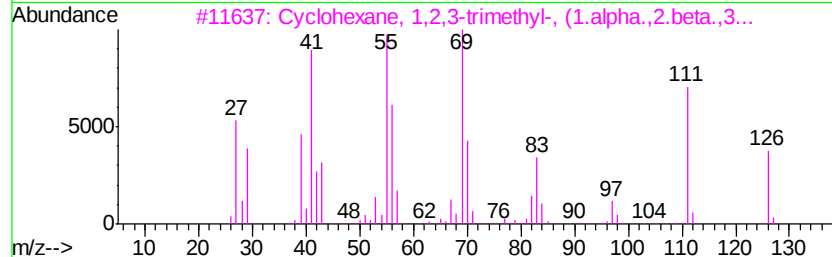
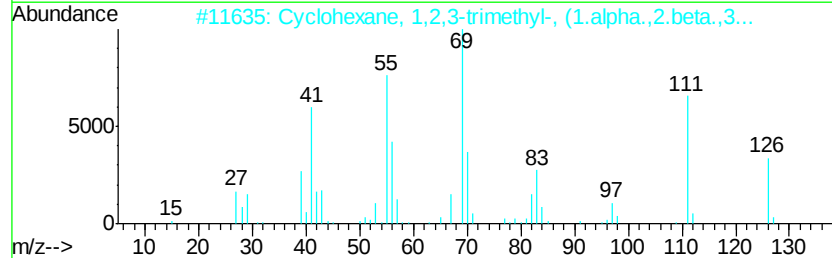
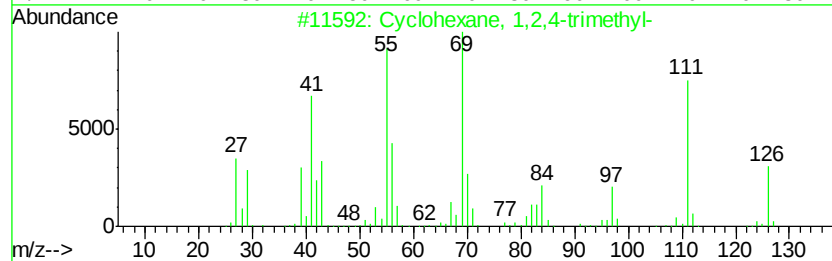
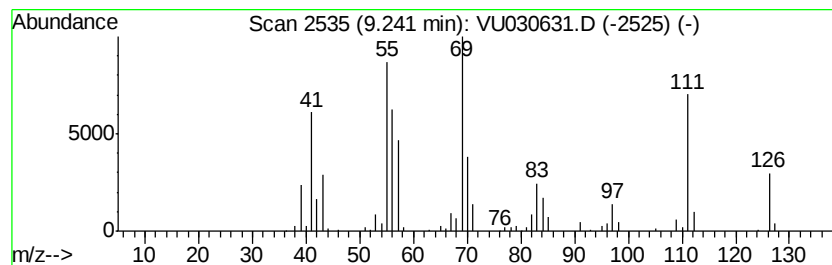
Instrument :  
MSVOA\_U  
ClientSampled :  
BF5F8

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM032319WMA.M  
Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 8 (DEL) Alkane: Cyclic9.24 Concentration Rank 51

| R.T.      | EstConc                              | Area   | Relative to ISTD | R.T.        |      |
|-----------|--------------------------------------|--------|------------------|-------------|------|
| 9.24      | 6.17 ug/L                            | 196647 | Chlorobenzene-d5 | 9.09        |      |
| Hit# of 5 | Tentative ID                         | MW     | MolForm          | CAS#        | Qual |
| 1         | Cvclohexane, 1,2,4-trimethyl-        | 126    | C9H18            | 002234-75-5 | 93   |
| 2         | Cvclohexane, 1,2,3-trimethyl-, (...) | 126    | C9H18            | 001678-81-5 | 90   |
| 3         | Cvclohexane, 1,2,3-trimethyl-, (...) | 126    | C9H18            | 001678-81-5 | 90   |
| 4         | Cvclohexane, 1,1,2-trimethyl-        | 126    | C9H18            | 007094-26-0 | 87   |
| 5         | Cvclohexane, 1,1,2-trimethyl-        | 126    | C9H18            | 007094-26-0 | 83   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU040419\  
Data File : VU030631.D  
Acq On : 03 Apr 2019 16:47  
Operator : JC/SP  
Sample : K2148-11  
Misc : 4.46µ/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
BF5F8

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM032319WMA.M  
Quant Title : VOC Analysis

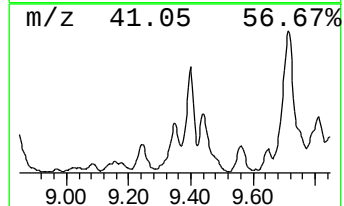
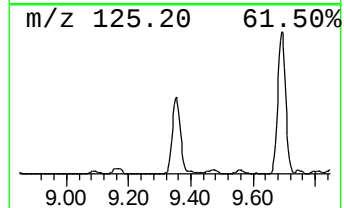
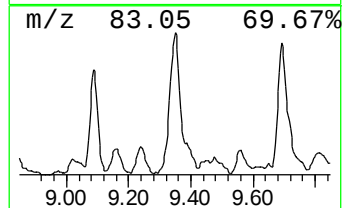
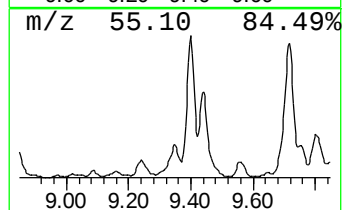
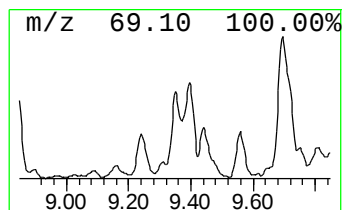
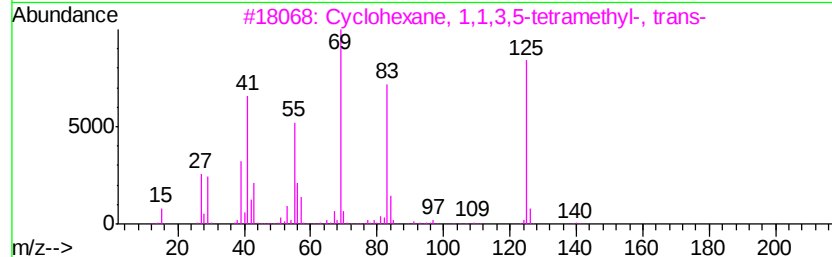
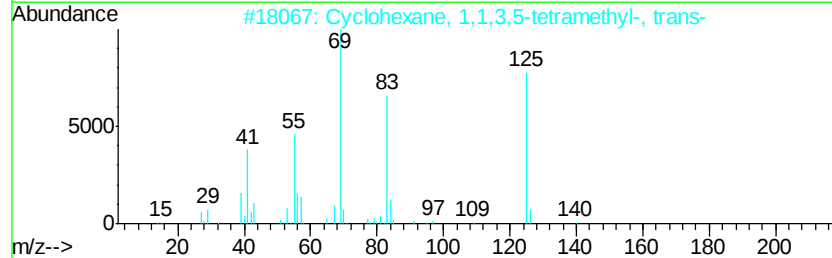
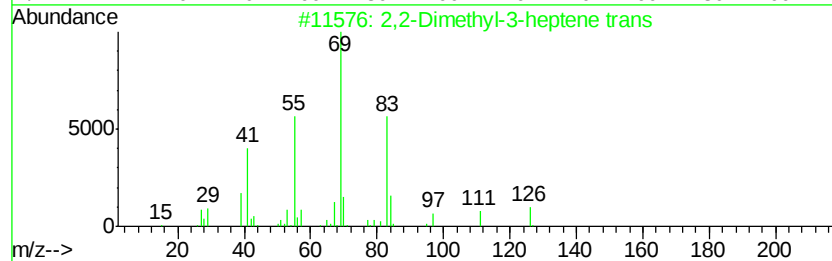
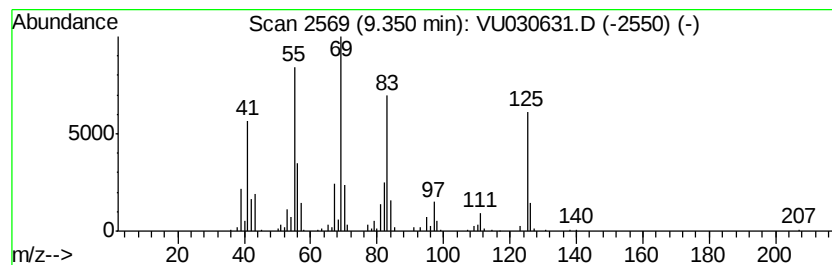
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 9 (DEL) Alkane: Cyclic9.35 Concentration Rank 43

| R.T. | EstConc    | Area   | Relative to ISTD | R.T. |
|------|------------|--------|------------------|------|
| 9.35 | 13.41 ug/L | 427646 | Chlorobenzene-d5 | 9.09 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#         | Qual |
|------|----|-------------------------------------|-----|---------|--------------|------|
| 1    | 5  | 2,2-Dimethyl-3-heptene trans        | 126 | C9H18   | 019550-75-5  | 64   |
| 2    |    | Cyclohexane, 1,1,3,5-tetramethyl... | 140 | C10H20  | 050876-31-8  | 58   |
| 3    |    | Cyclohexane, 1,1,3,5-tetramethyl... | 140 | C10H20  | 050876-31-8  | 49   |
| 4    |    | 3-Octene, 2,2-dimethyl-             | 140 | C10H20  | 086869-76-3  | 47   |
| 5    |    | 2,3-Dimethyl-3-heptene              | 126 | C9H18   | 1000113-49-3 | 38   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU040419\  
Data File : VU030631.D  
Acq On : 03 Apr 2019 16:47  
Operator : JC/SP  
Sample : K2148-11  
Misc : 4.46uL/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
BF5F8

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM032319WMA.M  
Quant Title : VOC Analysis

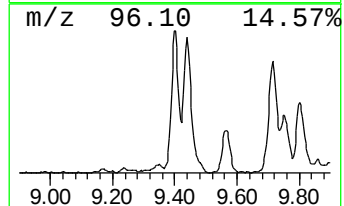
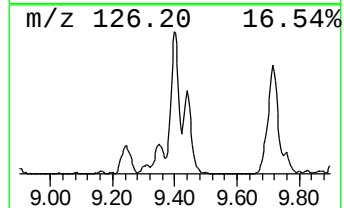
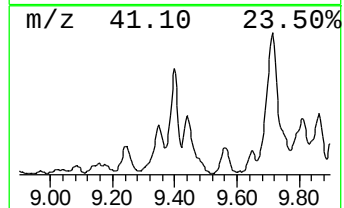
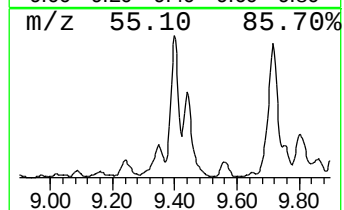
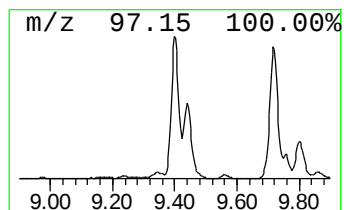
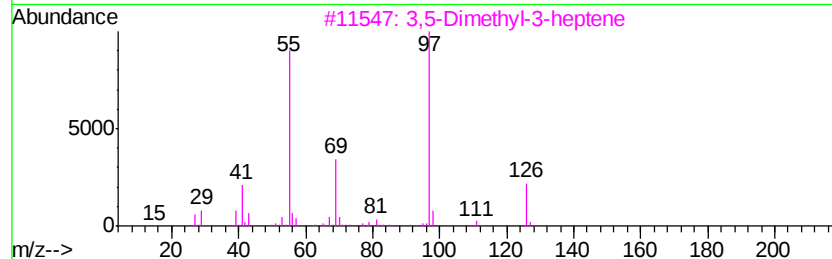
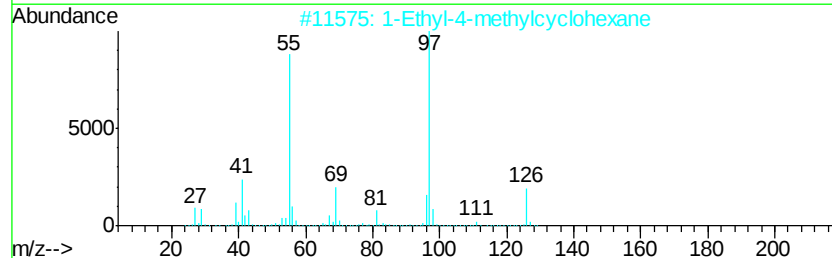
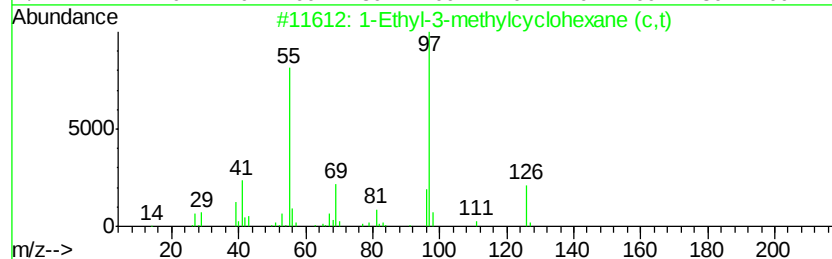
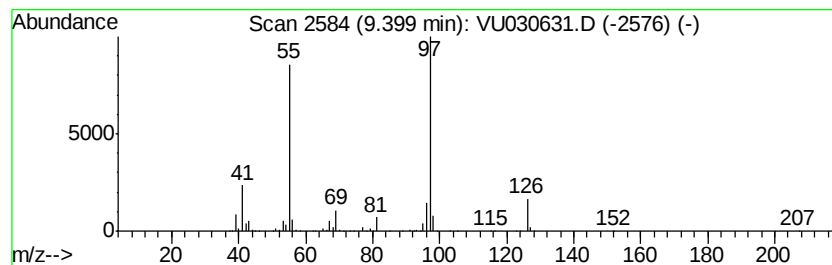
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 10 (DEL) Alkane: Cyclic9.40 Concentration Rank 37

| R.T. | EstConc    | Area   | Relative to ISTD | R.T. |
|------|------------|--------|------------------|------|
| 9.40 | 18.69 ug/L | 595975 | Chlorobenzene-d5 | 9.09 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 1-Ethyl-3-methylcyclohexane (c,t)   | 126 | C9H18     | 003728-55-0  | 90   |
| 2    |    | 1-Ethyl-4-methylcyclohexane         | 126 | C9H18     | 003728-56-1  | 90   |
| 3    |    | 3,5-Dimethyl-3-heptene              | 126 | C9H18     | 059643-68-4  | 72   |
| 4    |    | Sulfurous acid, cyclohexylmethyl... | 346 | C19H38O3S | 1000309-22-0 | 72   |
| 5    |    | Sulfurous acid, cyclohexylmethyl... | 262 | C13H26O3S | 1000309-21-5 | 72   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU040419\  
Data File : VU030631.D  
Acq On : 03 Apr 2019 16:47  
Operator : JC/SP  
Sample : K2148-11  
Misc : 4.46µ/5mL/100µL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
BF5F8

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM032319WMA.M  
Quant Title : VOC Analysis

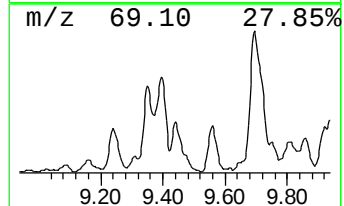
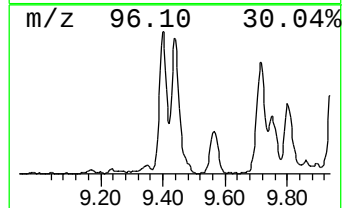
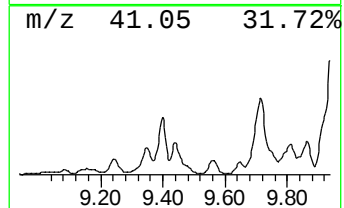
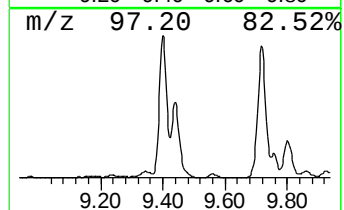
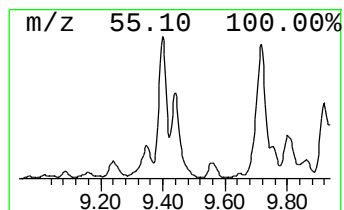
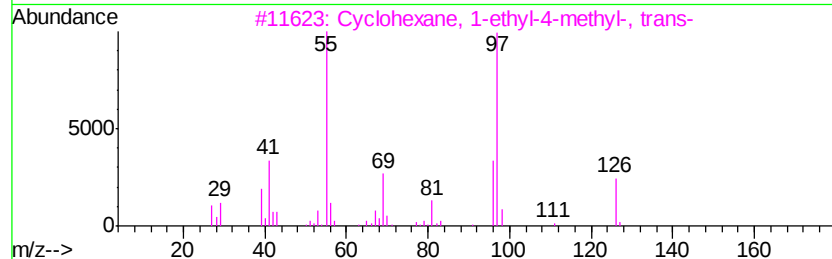
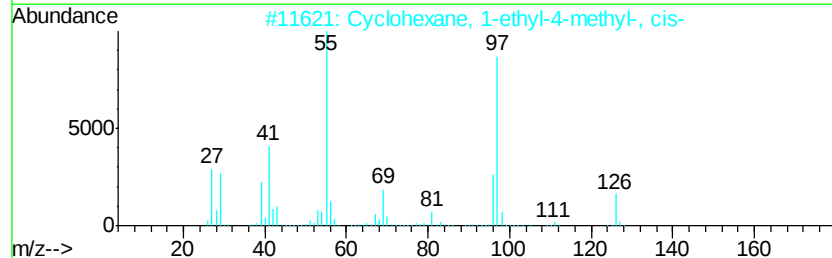
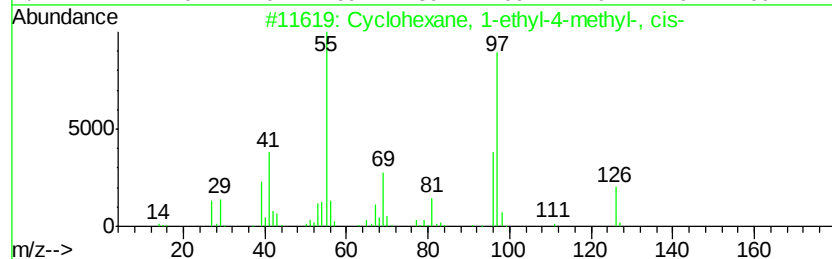
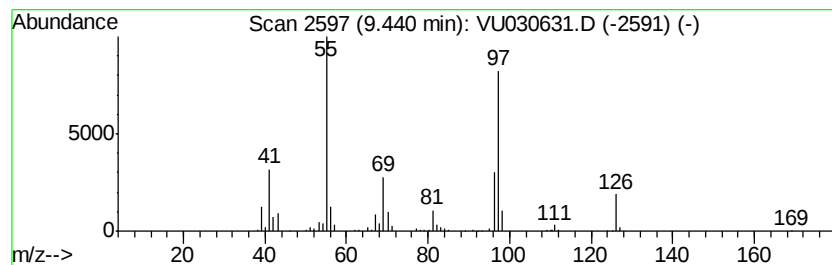
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 11 (DEL) Alkane: Cyclic9.44 Concentration Rank 35

| R.T. | EstConc    | Area   | Relative to ISTD | R.T. |
|------|------------|--------|------------------|------|
| 9.44 | 19.29 ug/L | 615060 | Chlorobenzene-d5 | 9.09 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Cyclohexane, 1-ethyl-4-methyl-, ... | 126 | C9H18   | 004926-78-7 | 91   |
| 2    |    | Cyclohexane, 1-ethyl-4-methyl-, ... | 126 | C9H18   | 004926-78-7 | 91   |
| 3    |    | Cyclohexane, 1-ethyl-4-methyl-, ... | 126 | C9H18   | 006236-88-0 | 87   |
| 4    |    | 1-Ethyl-4-methylcyclohexane         | 126 | C9H18   | 003728-56-1 | 87   |
| 5    |    | cis-1-Ethyl-3-methyl-cyclohexane    | 126 | C9H18   | 019489-10-2 | 87   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU040419\  
Data File : VU030631.D  
Acq On : 03 Apr 2019 16:47  
Operator : JC/SP  
Sample : K2148-11  
Misc : 4.46g/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
BF5F8

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM032319WMA.M  
Quant Title : VOC Analysis

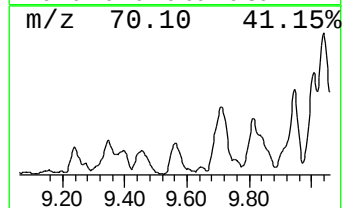
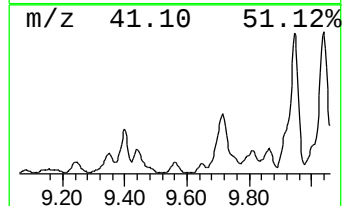
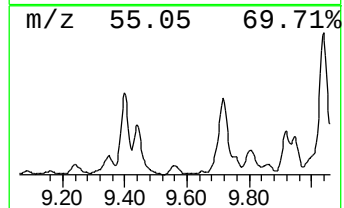
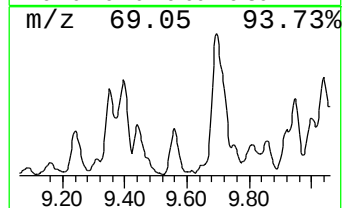
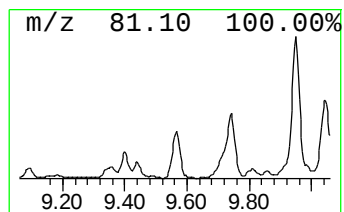
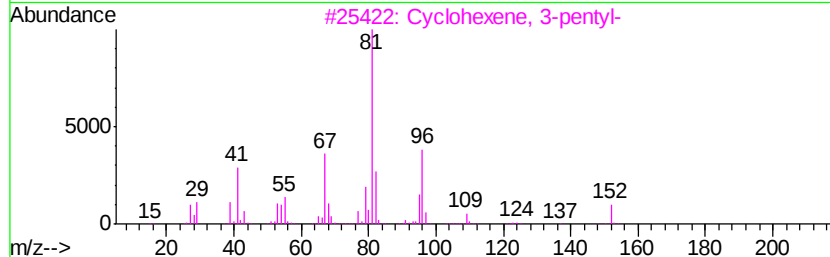
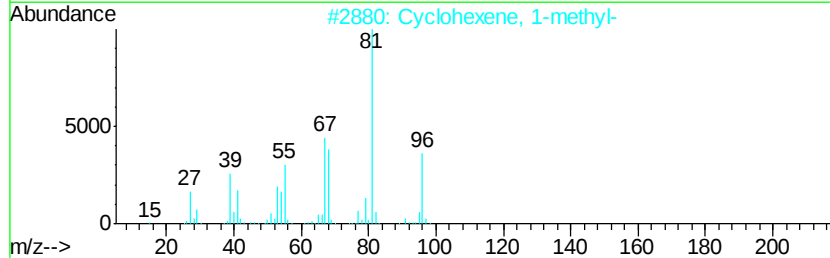
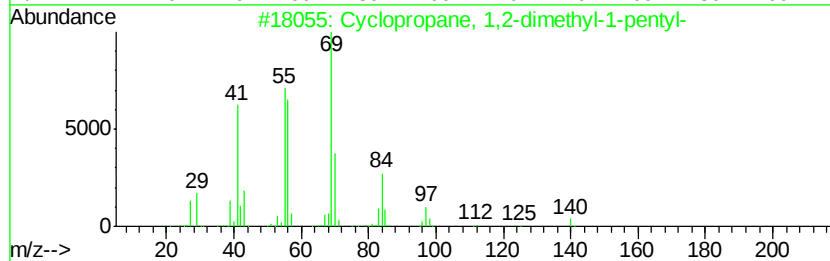
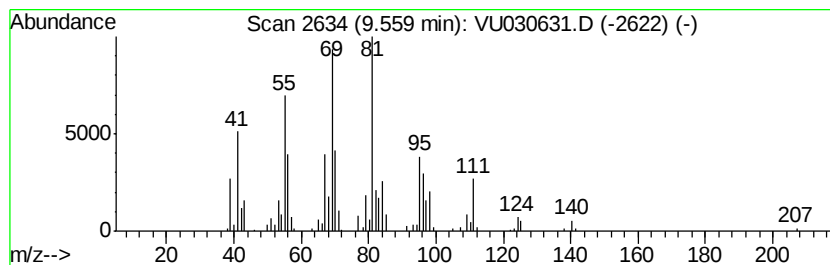
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 12 (DEL) Alkane: Cyclic9.56 Concentration Rank 47

| R.T. | EstConc   | Area   | Relative to ISTD | R.T. |
|------|-----------|--------|------------------|------|
| 9.56 | 8.86 ug/L | 282449 | Chlorobenzene-d5 | 9.09 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Cyclopropane, 1,2-dimethyl-1-pen... | 140 | C10H20  | 062238-04-4 | 41   |
| 2    |    | Cyclohexene, 1-methyl-              | 96  | C7H12   | 000591-49-1 | 30   |
| 3    |    | Cyclohexene, 3-pentyl-              | 152 | C11H20  | 015232-92-5 | 30   |
| 4    |    | Cyclopropane, 1,1-diethyl-          | 98  | C7H14   | 001003-19-6 | 30   |
| 5    |    | Cyclobutane, (1-methylethylidene)-  | 96  | C7H12   | 001528-22-9 | 25   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU040419\  
Data File : VU030631.D  
Acq On : 03 Apr 2019 16:47  
Operator : JC/SP  
Sample : K2148-11  
Misc : 4.46uL/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
BF5F8

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM032319WMA.M  
Quant Title : VOC Analysis

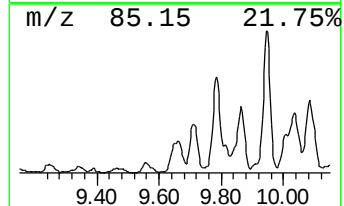
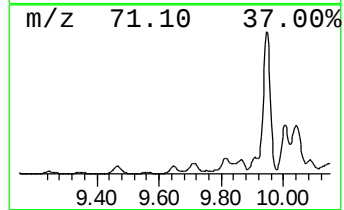
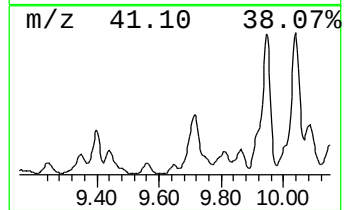
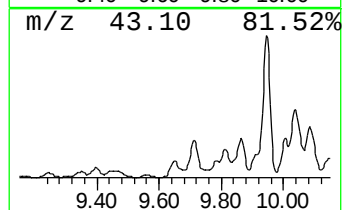
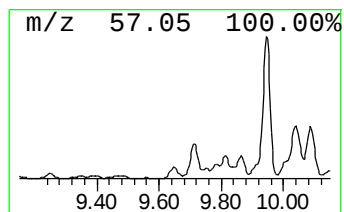
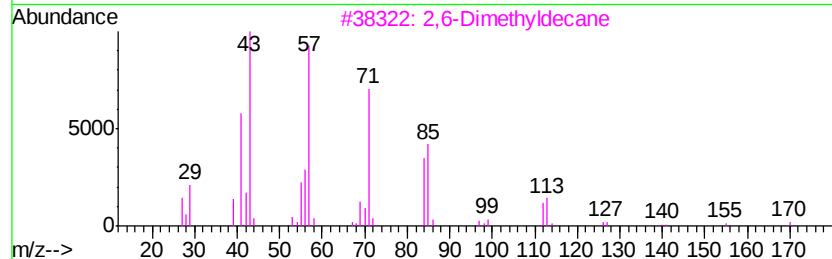
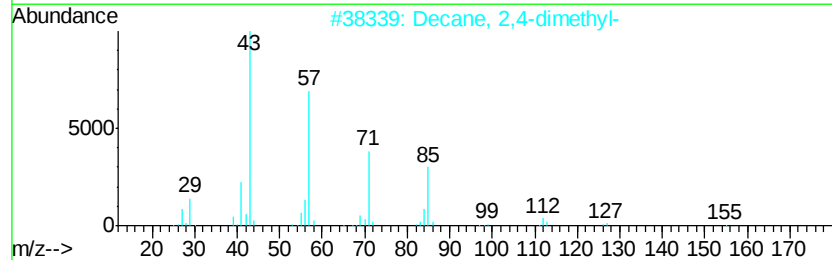
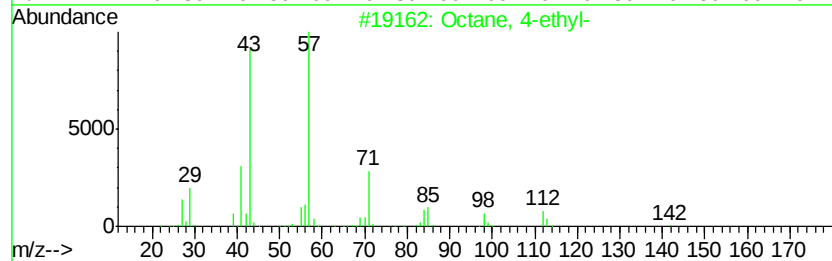
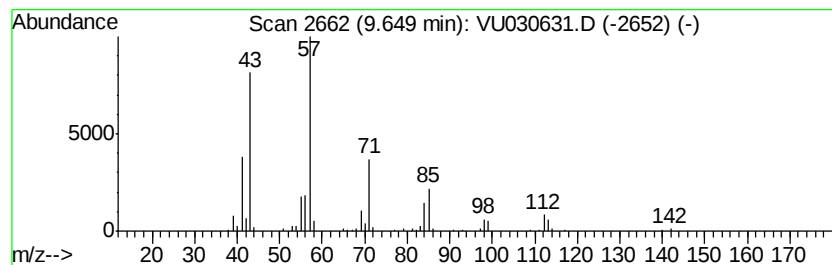
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 13 (DEL) Alkane: Straight-Chai... Concentration Rank 54

| R.T. | EstConc   | Area   | Relative to ISTD | R.T. |
|------|-----------|--------|------------------|------|
| 9.65 | 4.09 ug/L | 130480 | Chlorobenzene-d5 | 9.09 |

| Hit# | of | 5 | Tentative ID                 | MW  | MolForm | CAS#        | Qual |
|------|----|---|------------------------------|-----|---------|-------------|------|
| 1    |    |   | Octane, 4-ethyl-             | 142 | C10H22  | 015869-86-0 | 80   |
| 2    |    |   | Decane, 2,4-dimethyl-        | 170 | C12H26  | 002801-84-5 | 72   |
| 3    |    |   | 2,6-Dimethyldecane           | 170 | C12H26  | 013150-81-7 | 64   |
| 4    |    |   | Octane, 3,4,5,6-tetramethyl- | 170 | C12H26  | 062185-21-1 | 64   |
| 5    |    |   | Undecane, 5-methyl-          | 170 | C12H26  | 001632-70-8 | 64   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU040419\  
Data File : VU030631.D  
Acq On : 03 Apr 2019 16:47  
Operator : JC/SP  
Sample : K2148-11  
Misc : 4.46g/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
BF5F8

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM032319WMA.M  
Quant Title : VOC Analysis

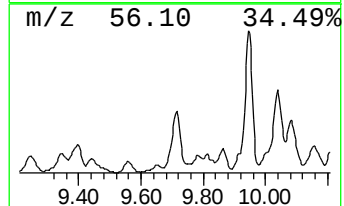
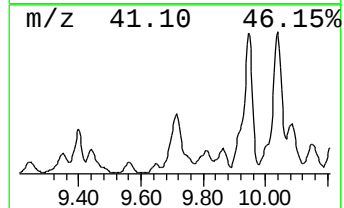
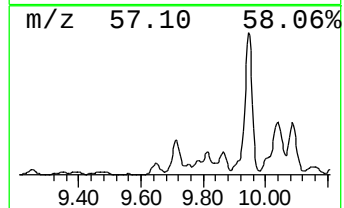
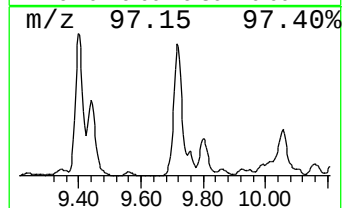
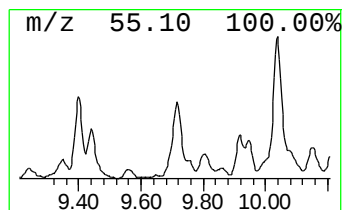
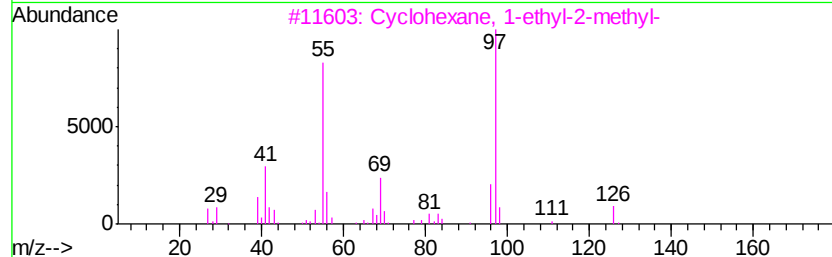
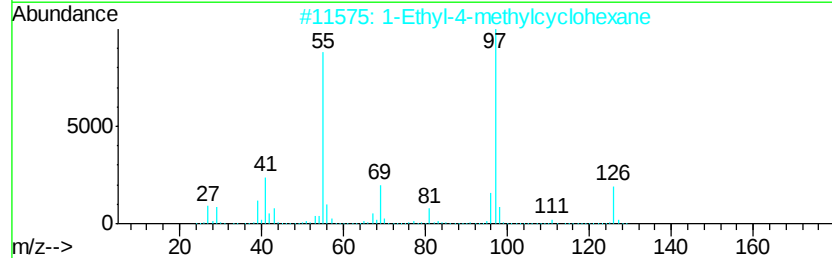
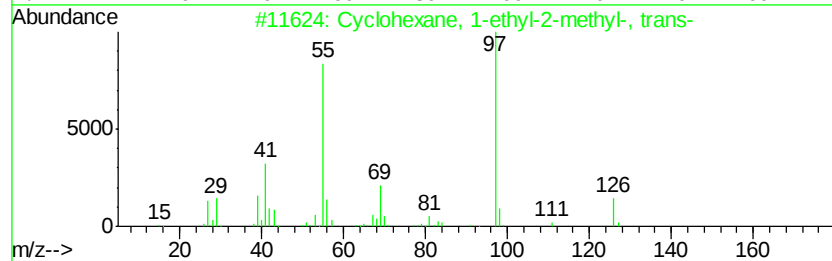
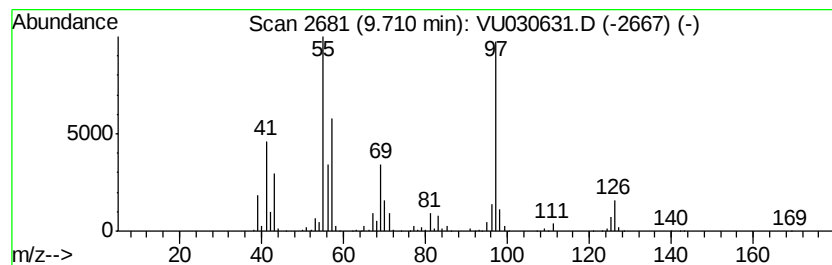
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 14 (DEL) Alkane: Cyclic9.71 Concentration Rank 19

| R.T. | EstConc    | Area    | Relative to ISTD | R.T. |
|------|------------|---------|------------------|------|
| 9.71 | 46.16 ug/L | 1471540 | Chlorobenzene-d5 | 9.09 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Cyclohexane, 1-ethyl-2-methyl-, ... | 126 | C9H18   | 004923-78-8 | 81   |
| 2    |    | 1-Ethyl-4-methylcyclohexane         | 126 | C9H18   | 003728-56-1 | 81   |
| 3    |    | Cyclohexane, 1-ethyl-2-methyl-      | 126 | C9H18   | 003728-54-9 | 74   |
| 4    |    | Cyclohexane, 1-ethyl-4-methyl-, ... | 126 | C9H18   | 004926-78-7 | 72   |
| 5    |    | Cyclohexane, 1,3-dimethyl-, cis-    | 112 | C8H16   | 000638-04-0 | 72   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU040419\  
Data File : VU030631.D  
Acq On : 03 Apr 2019 16:47  
Operator : JC/SP  
Sample : K2148-11  
Misc : 4.46uL/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
BF5F8

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM032319WMA.M  
Quant Title : VOC Analysis

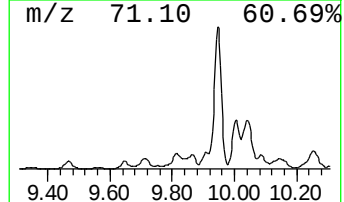
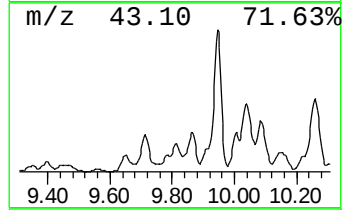
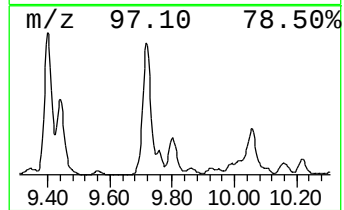
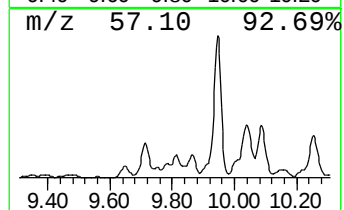
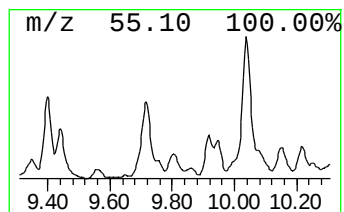
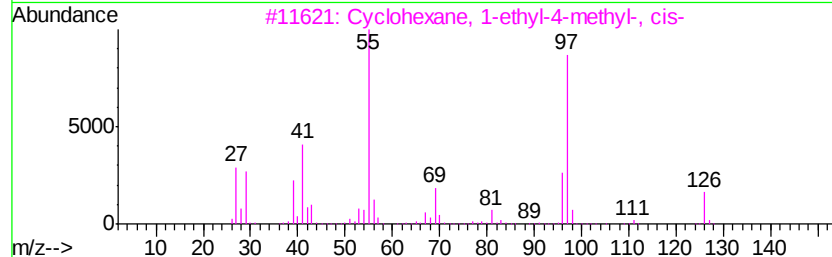
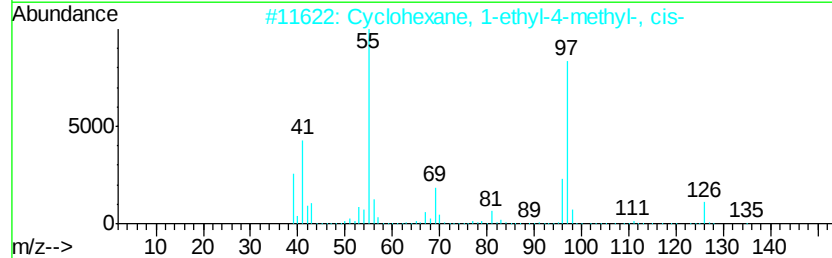
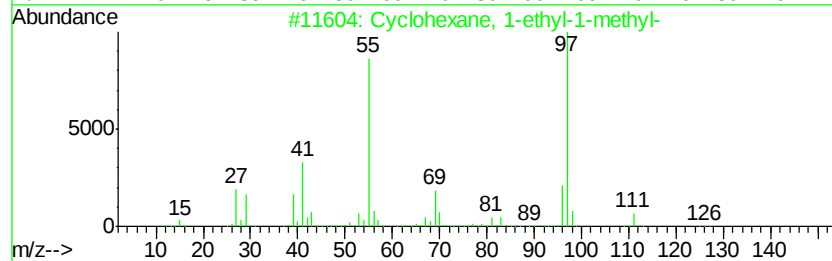
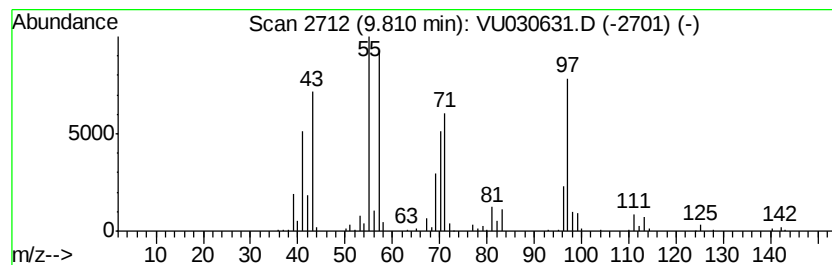
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 15 (DEL) Alkane: Cyclic9.81 Concentration Rank 48

| R.T. | EstConc   | Area   | Relative to ISTD | R.T. |
|------|-----------|--------|------------------|------|
| 9.81 | 8.46 ug/L | 269711 | Chlorobenzene-d5 | 9.09 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Cyclohexane, 1-ethyl-1-methyl-      | 126 | C9H18   | 004926-90-3 | 46   |
| 2    |    |   | Cyclohexane, 1-ethyl-4-methyl-, ... | 126 | C9H18   | 004926-78-7 | 43   |
| 3    |    |   | Cyclohexane, 1-ethyl-4-methyl-, ... | 126 | C9H18   | 004926-78-7 | 43   |
| 4    |    |   | Cyclohexane, 1-ethyl-4-methyl-, ... | 126 | C9H18   | 006236-88-0 | 43   |
| 5    |    |   | Cyclohexane, 1-bromo-4-methyl-      | 176 | C7H13Br | 006294-40-2 | 35   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU040419\  
Data File : VU030631.D  
Acq On : 03 Apr 2019 16:47  
Operator : JC/SP  
Sample : K2148-11  
Misc : 4.46µ/5mL/100µL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
BF5F8

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM032319WMA.M  
Quant Title : VOC Analysis

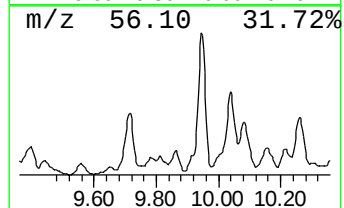
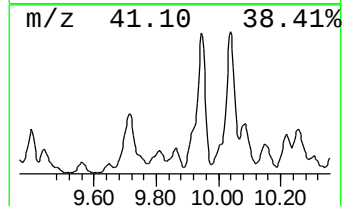
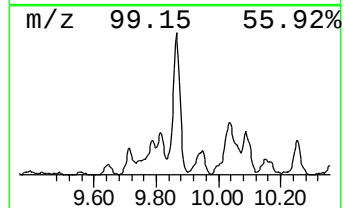
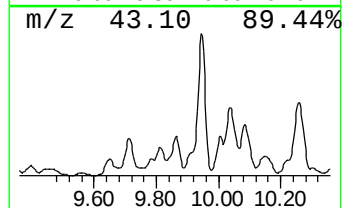
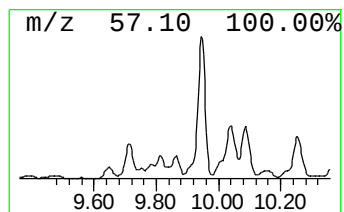
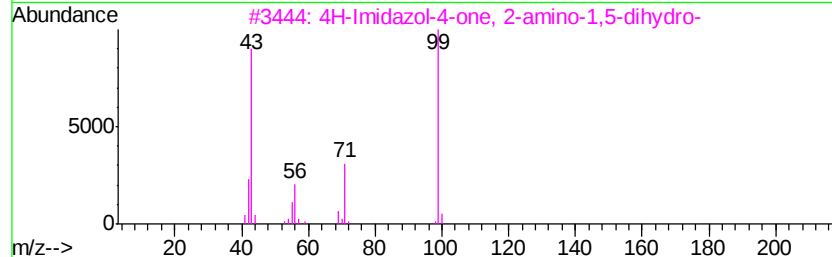
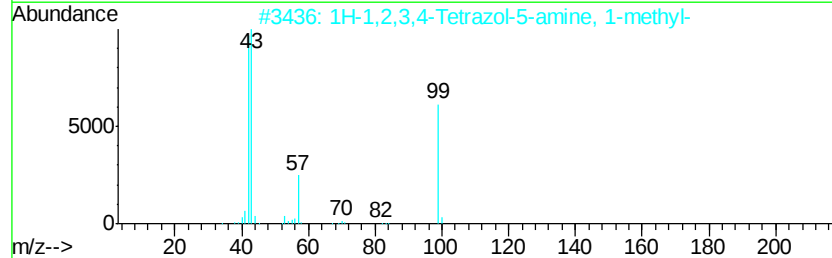
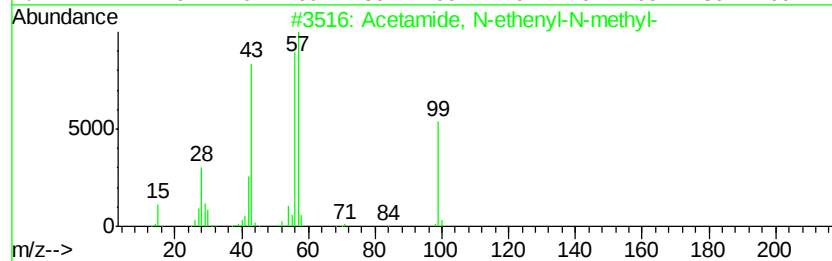
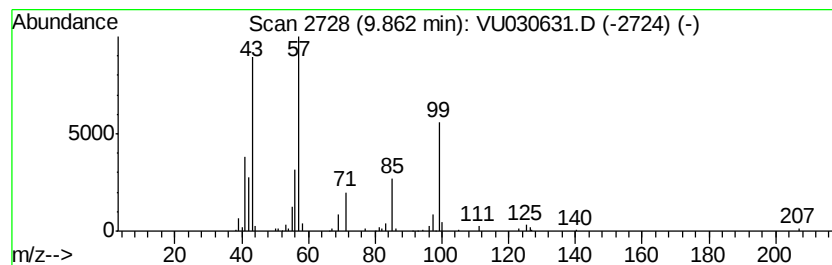
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TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 16 unknown-01 Concentration Rank 49

| R.T. | EstConc   | Area   | Relative to ISTD | R.T. |
|------|-----------|--------|------------------|------|
| 9.86 | 6.86 ug/L | 218773 | Chlorobenzene-d5 | 9.09 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|---------|--------------|------|
| 1    |    |   | Acetamide, N-ethenyl-N-methyl-      | 99  | C5H9NO  | 003195-78-6  | 47   |
| 2    |    |   | 1H-1,2,3,4-Tetrazol-5-amine, 1-m... | 99  | C2H5N5  | 1000338-04-0 | 43   |
| 3    |    |   | 4H-Imidazol-4-one, 2-amino-1,5-d... | 99  | C3H5N3O | 000503-86-6  | 43   |
| 4    |    |   | Octane, 2,7-dimethyl-               | 142 | C10H22  | 001072-16-8  | 40   |
| 5    |    |   | Hexane, 2-methyl-                   | 100 | C7H16   | 000591-76-4  | 38   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU040419\  
Data File : VU030631.D  
Acq On : 03 Apr 2019 16:47  
Operator : JC/SP  
Sample : K2148-11  
Misc : 4.46µ/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
BF5F8

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM032319WMA.M  
Quant Title : VOC Analysis

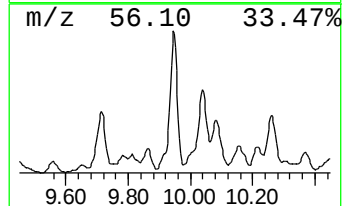
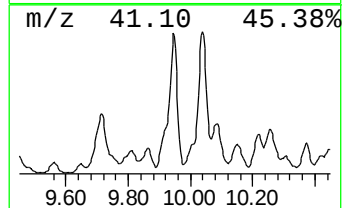
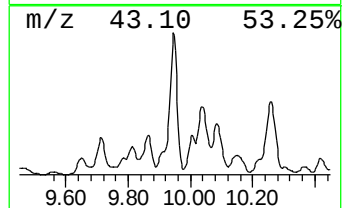
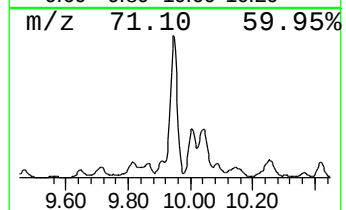
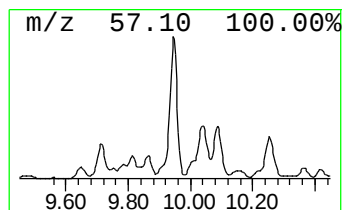
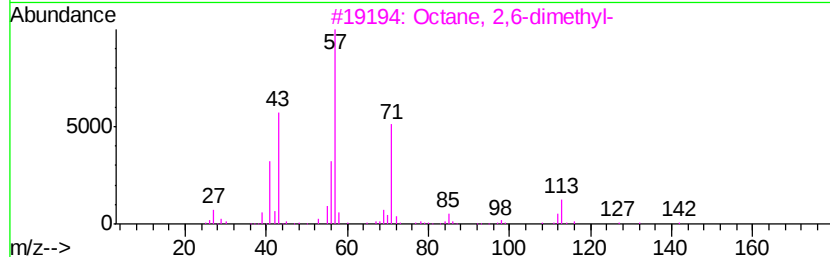
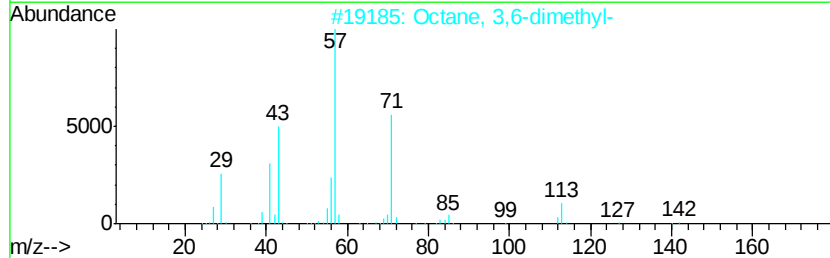
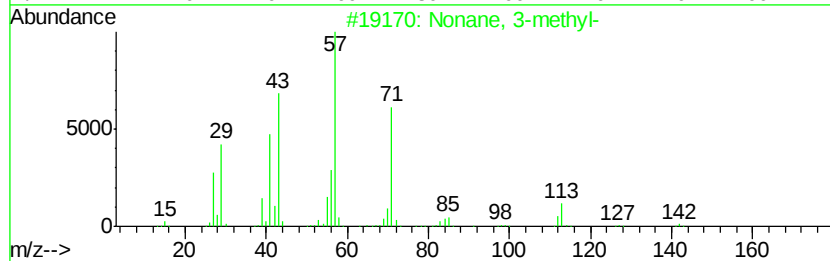
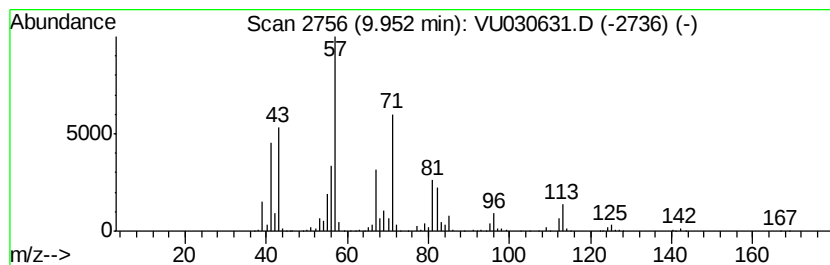
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TIC Integration Parameters: LSCINT.P

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Peak Number 17 (DEL) Alkane: Straight-Chai... Concentration Rank 7

| R.T. | EstConc    | Area    | Relative to ISTD | R.T. |
|------|------------|---------|------------------|------|
| 9.95 | 78.92 ug/L | 2516240 | Chlorobenzene-d5 | 9.09 |

| Hit# | of | Tentative ID          | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------|-----|---------|-------------|------|
| 1    | 5  | Nonane, 3-methyl-     | 142 | C10H22  | 005911-04-6 | 64   |
| 2    |    | Octane, 3,6-dimethyl- | 142 | C10H22  | 015869-94-0 | 64   |
| 3    |    | Octane, 2,6-dimethyl- | 142 | C10H22  | 002051-30-1 | 64   |
| 4    |    | Octane, 2,6-dimethyl- | 142 | C10H22  | 002051-30-1 | 64   |
| 5    |    | Octane, 2,6-dimethyl- | 142 | C10H22  | 002051-30-1 | 60   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU040419\  
Data File : VU030631.D  
Acq On : 03 Apr 2019 16:47  
Operator : JC/SP  
Sample : K2148-11  
Misc : 4.46µL/5mL/100µL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 7 Sample Multiplier: 1

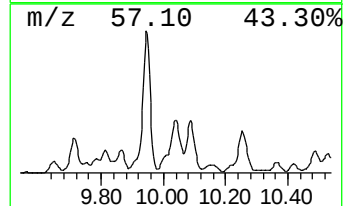
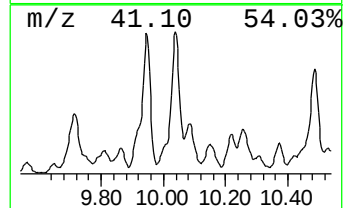
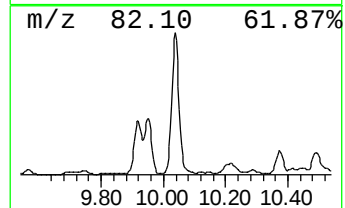
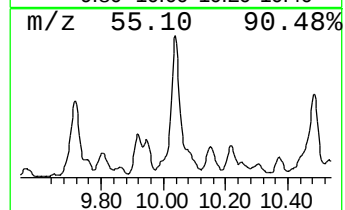
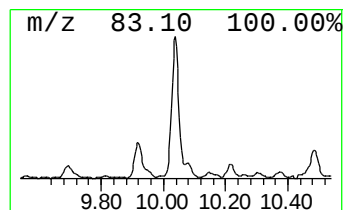
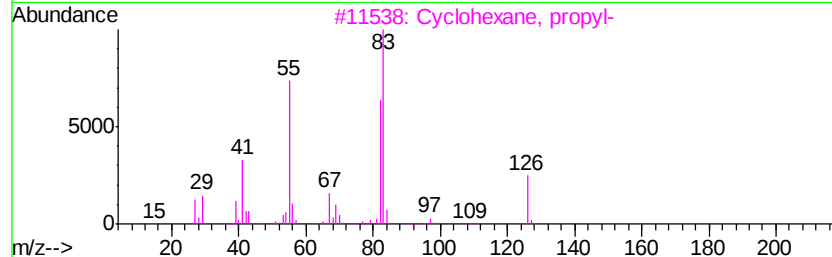
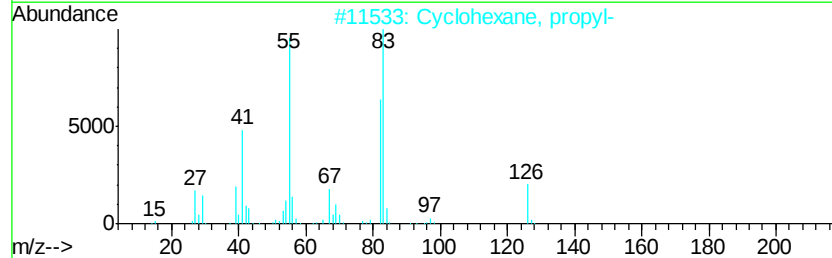
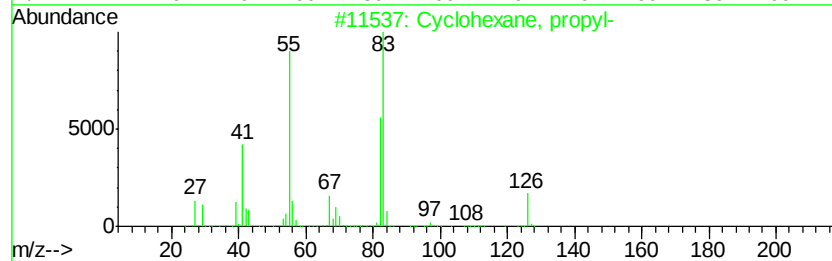
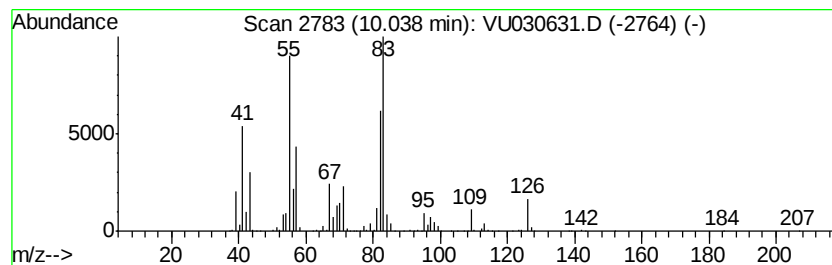
Instrument :  
MSVOA\_U  
ClientSampleId :  
BF5F8

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM032319WMA.M  
Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 18 (DEL) Alkane: Cyclic10.04 Concentration Rank 6

| R.T.      | EstConc              | Area    | Relative to ISTD | R.T.        |      |
|-----------|----------------------|---------|------------------|-------------|------|
| 10.04     | 83.00 ug/L           | 2646250 | Chlorobenzene-d5 | 9.09        |      |
| Hit# of 5 | Tentative ID         | MW      | MolForm          | CAS#        | Qual |
| 1         | Cvclohexane, propvl- | 126     | C9H18            | 001678-92-8 | 70   |
| 2         | Cvclohexane, propvl- | 126     | C9H18            | 001678-92-8 | 70   |
| 3         | Cvclohexane, propvl- | 126     | C9H18            | 001678-92-8 | 68   |
| 4         | Cvclohexane, propvl- | 126     | C9H18            | 001678-92-8 | 58   |
| 5         | Cyclohexane, butyl-  | 140     | C10H20           | 001678-93-9 | 53   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU040419\  
Data File : VU030631.D  
Acq On : 03 Apr 2019 16:47  
Operator : JC/SP  
Sample : K2148-11  
Misc : 4.46µL/5mL/100µL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
BF5F8

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM032319WMA.M  
Quant Title : VOC Analysis

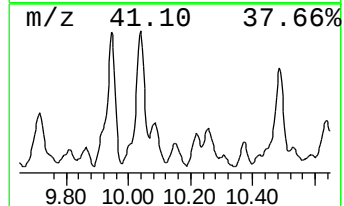
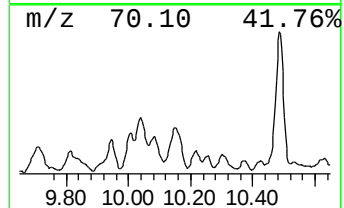
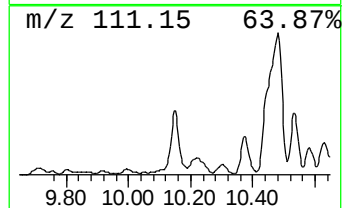
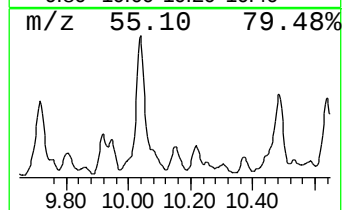
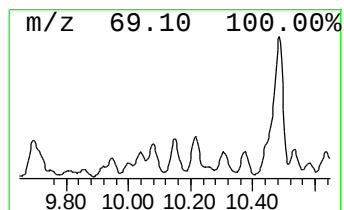
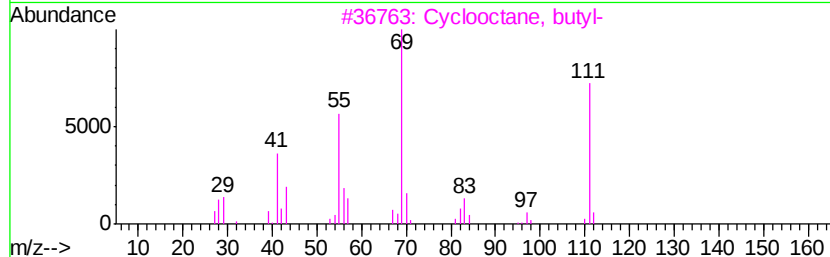
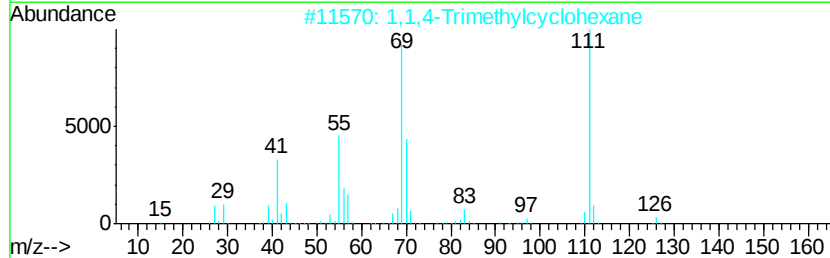
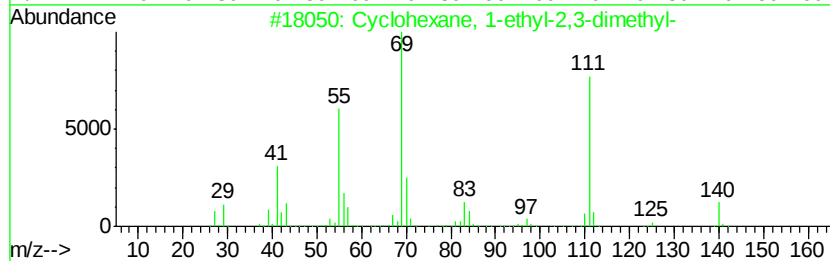
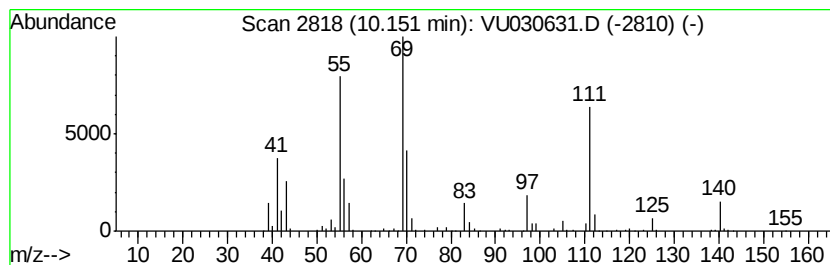
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 19 (DEL) Alkane: Cyclic10.15 Concentration Rank 42

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T. |
|-------|------------|--------|------------------|------|
| 10.15 | 15.08 ug/L | 480732 | Chlorobenzene-d5 | 9.09 |

| Hit# | of | Tentative ID                       | MW  | MolForm | CAS#        | Qual |
|------|----|------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Cyclohexane, 1-ethyl-2,3-dimethyl- | 140 | C10H20  | 007058-05-1 | 64   |
| 2    |    | 1,1,4-Trimethylcyclohexane         | 126 | C9H18   | 007094-27-1 | 64   |
| 3    |    | Cyclooctane, butyl-                | 168 | C12H24  | 016538-93-5 | 59   |
| 4    |    | 1-Hexene, 3,3-dimethyl-            | 112 | C8H16   | 003404-77-1 | 58   |
| 5    |    | 4-Octene, 2,6-dimethyl-, [S-(E)]-  | 140 | C10H20  | 062960-76-3 | 53   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU040419\  
Data File : VU030631.D  
Acq On : 03 Apr 2019 16:47  
Operator : JC/SP  
Sample : K2148-11  
Misc : 4.46µ/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 7 Sample Multiplier: 1

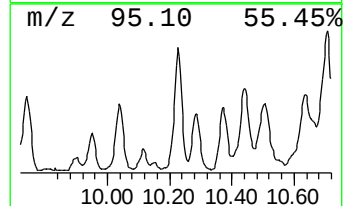
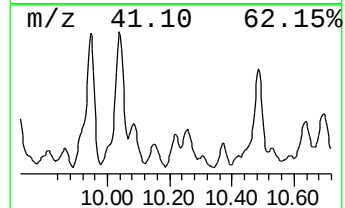
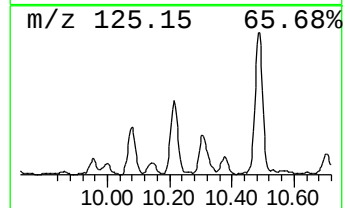
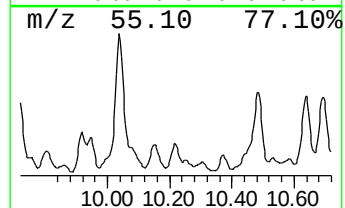
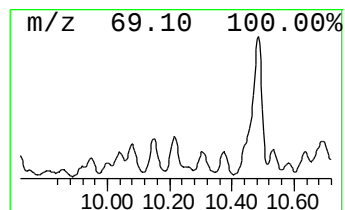
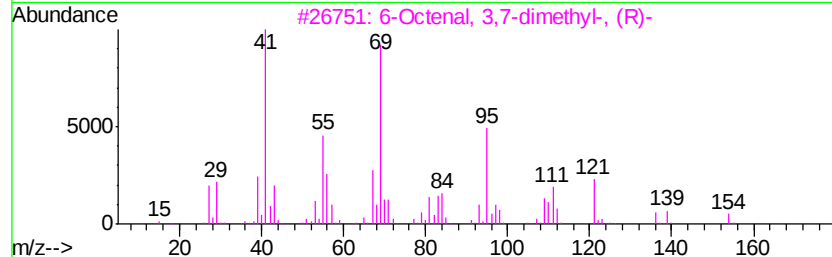
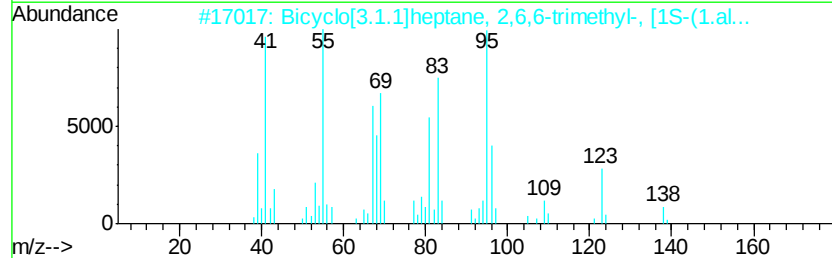
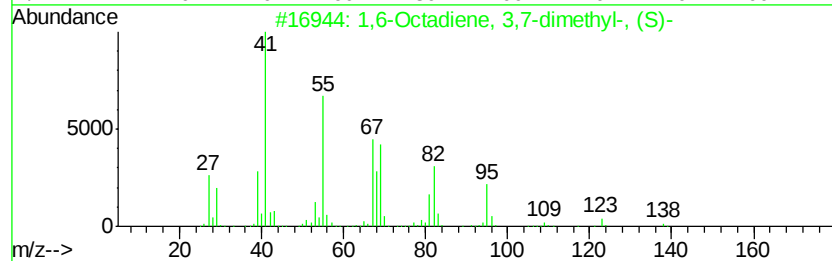
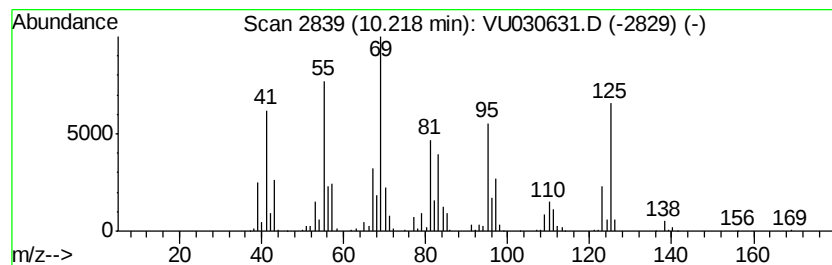
Instrument :  
MSVOA\_U  
ClientSampleId :  
BF5F8

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM032319WMA.M  
Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 20 unknown-02 Concentration Rank 33

| R.T.    | EstConc                             | Area         | Relative to ISTD | R.T.        |      |      |
|---------|-------------------------------------|--------------|------------------|-------------|------|------|
| 10.22   | 22.18 ug/L                          | 707240       | Chlorobenzene-d5 | 9.09        |      |      |
| Hit# of | 5                                   | Tentative ID | MW               | MolForm     | CAS# | Qual |
| 1       | 1,6-Octadiene, 3,7-dimethyl-, (S)-  | 138          | C10H18           | 010281-55-7 | 38   |      |
| 2       | Bicyclo[3.1.1]heptane, 2,6,6-tri... | 138          | C10H18           | 004755-33-3 | 30   |      |
| 3       | 6-Octenal, 3,7-dimethyl-, (R)-      | 154          | C10H18O          | 002385-77-5 | 27   |      |
| 4       | Methanone, dicyclopropyl-           | 110          | C7H10O           | 001121-37-5 | 18   |      |
| 5       | 1-Pentene, 3,3-dimethyl-            | 98           | C7H14            | 003404-73-7 | 18   |      |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU040419\  
Data File : VU030631.D  
Acq On : 03 Apr 2019 16:47  
Operator : JC/SP  
Sample : K2148-11  
Misc : 4.46µ/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 7 Sample Multiplier: 1

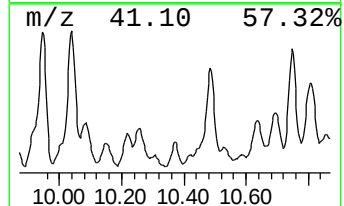
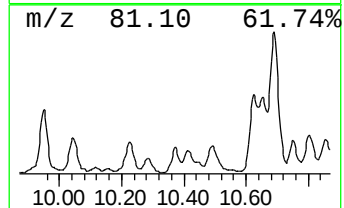
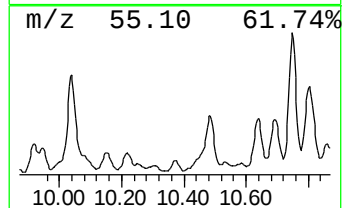
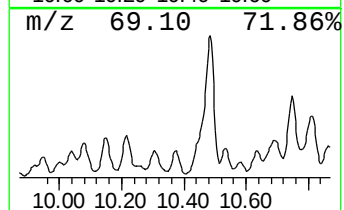
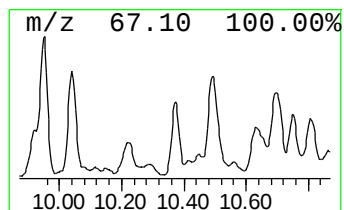
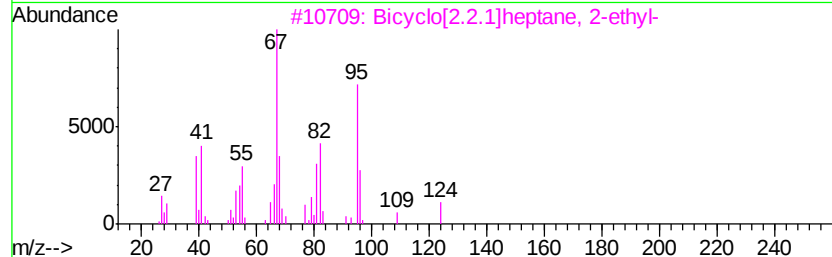
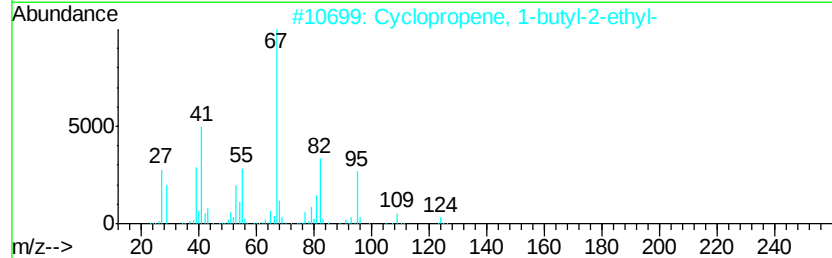
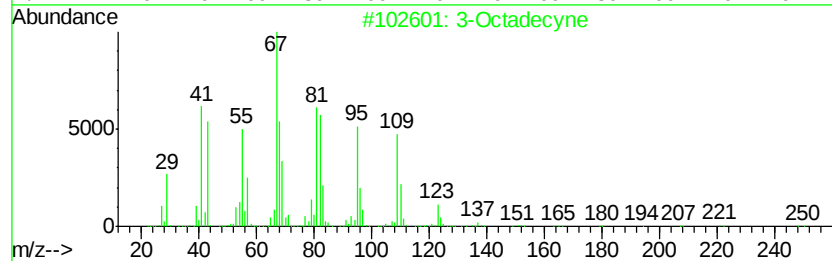
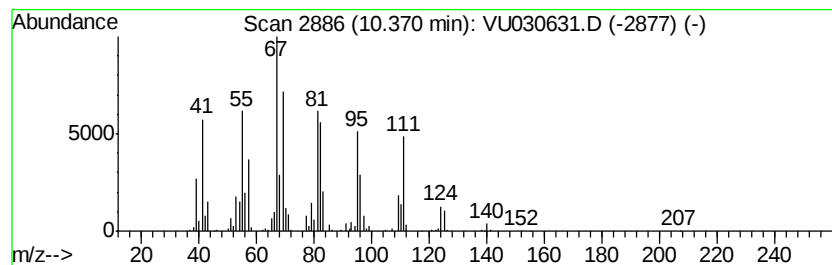
Instrument :  
MSVOA\_U  
ClientSampleId :  
BF5F8

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM032319WMA.M  
Quant Title : VOC Analysis

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

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Peak Number 21 3-Octadecyne Concentration Rank 39

| R.T.    | EstConc                         | Area         | Relative to ISTD       | R.T.      |
|---------|---------------------------------|--------------|------------------------|-----------|
| 10.37   | 16.32 ug/L                      | 517798       | 1,4-Dichlorobenzene-d4 | 11.48     |
| Hit# of | 5                               | Tentative ID | MW MolForm             | CAS# Qual |
| 1       | 3-Octadecyne                    | 250 C18H34   | 061886-64-4            | 64        |
| 2       | Cyclopropene, 1-butyl-2-ethyl-  | 124 C9H16    | 050915-91-8            | 58        |
| 3       | Bicyclo[2.2.1]heptane, 2-ethyl- | 124 C9H16    | 002146-41-0            | 53        |
| 4       | 3-Octyne, 2-methyl-             | 124 C9H16    | 055402-15-8            | 49        |
| 5       | 1,10-Undecadiene                | 152 C11H20   | 013688-67-0            | 49        |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU040419\  
Data File : VU030631.D  
Acq On : 03 Apr 2019 16:47  
Operator : JC/SP  
Sample : K2148-11  
Misc : 4.46µL/5mL/100µL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 7 Sample Multiplier: 1

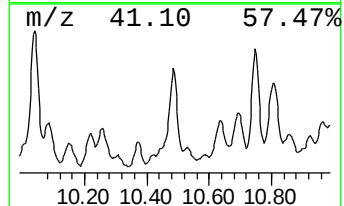
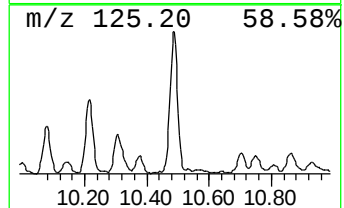
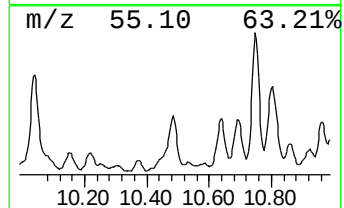
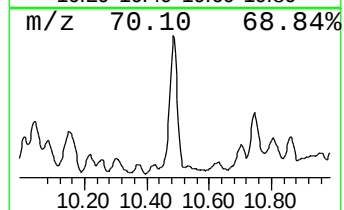
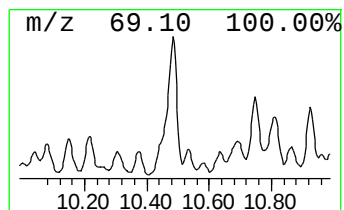
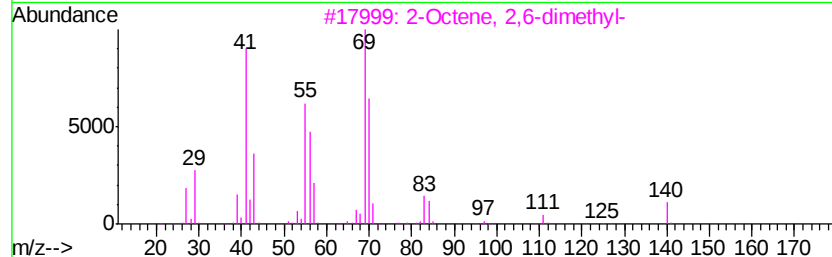
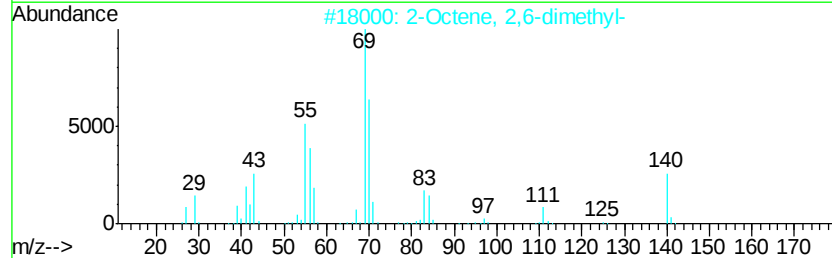
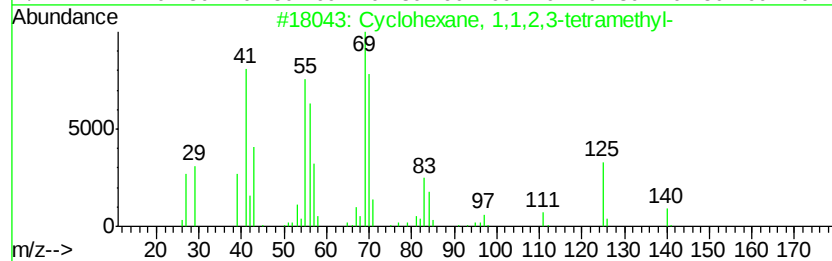
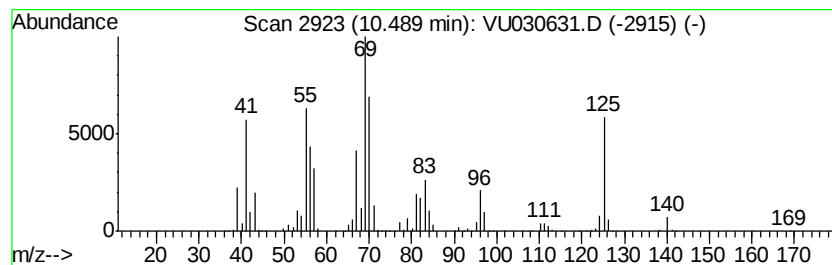
Instrument :  
MSVOA\_U  
ClientSampleId :  
BF5F8

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM032319WMA.M  
Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 22 (DEL) Alkane: Cyclic10.49 Concentration Rank 21

| R.T.      | EstConc                           | Area    | Relative to ISTD       | R.T.        |      |
|-----------|-----------------------------------|---------|------------------------|-------------|------|
| 10.49     | 45.44 ug/L                        | 1442090 | 1,4-Dichlorobenzene-d4 | 11.48       |      |
| Hit# of 5 | Tentative ID                      | MW      | MolForm                | CAS#        | Qual |
| 1         | Cvclohexane, 1,1,2,3-tetramethyl- | 140     | C10H20                 | 006783-92-2 | 58   |
| 2         | 2-Octene, 2,6-dimethyl-           | 140     | C10H20                 | 004057-42-5 | 58   |
| 3         | 2-Octene, 2,6-dimethyl-           | 140     | C10H20                 | 004057-42-5 | 52   |
| 4         | 2-Nonene, 2-methyl-               | 140     | C10H20                 | 002129-95-5 | 46   |
| 5         | 1-Hexene, 3,3-dimethyl-           | 112     | C8H16                  | 003404-77-1 | 43   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU040419\  
Data File : VU030631.D  
Acq On : 03 Apr 2019 16:47  
Operator : JC/SP  
Sample : K2148-11  
Misc : 4.46µ/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 7 Sample Multiplier: 1

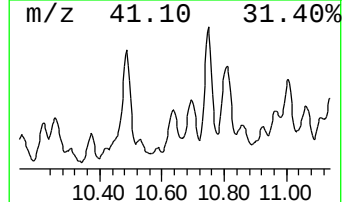
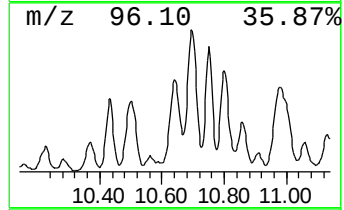
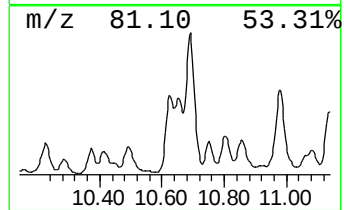
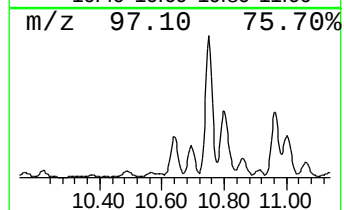
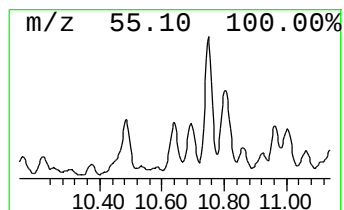
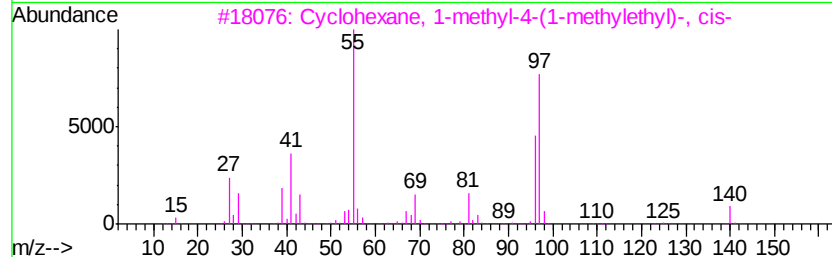
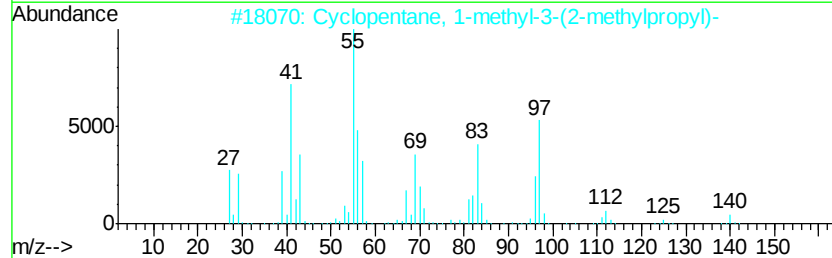
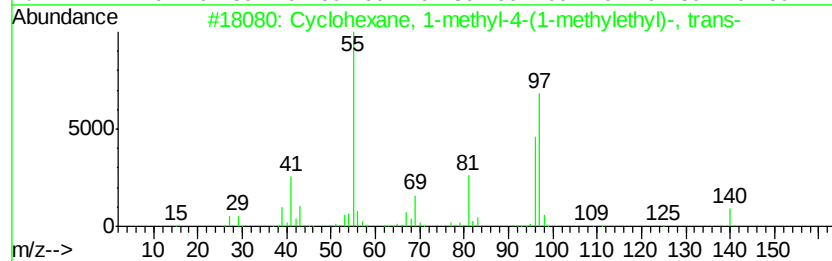
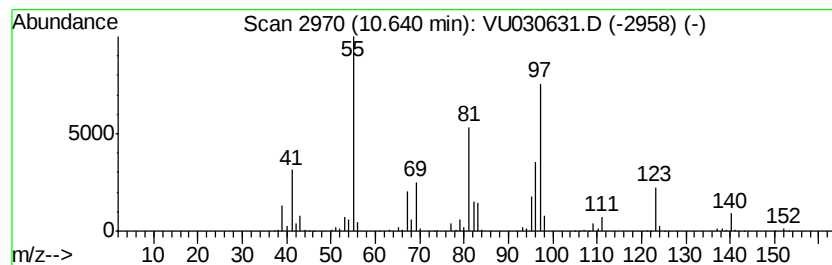
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MSVOA\_U  
ClientSampleId :  
BF5F8

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM032319WMA.M  
Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 23 (DEL) Alkane: Cyclic10.64 Concentration Rank 25

| R.T.    | EstConc    | Area                                   | Relative to ISTD       | R.T.           |
|---------|------------|----------------------------------------|------------------------|----------------|
| 10.64   | 34.03 ug/L | 1079890                                | 1,4-Dichlorobenzene-d4 | 11.48          |
| Hit# of | 5          | Tentative ID                           | MW MolForm             | CAS# Qual      |
| 1       |            | Cyclohexane, 1-methyl-4-(1-methyl-...  | 140 C10H20             | 001678-82-6 70 |
| 2       |            | Cyclopentane, 1-methyl-3-(2-methyl-... | 140 C10H20             | 029053-04-1 64 |
| 3       |            | Cyclohexane, 1-methyl-4-(1-methyl-...  | 140 C10H20             | 006069-98-3 62 |
| 4       |            | Cycloheptanemethanol                   | 128 C8H16O             | 004448-75-3 59 |
| 5       |            | Cyclohexane, 1-methyl-4-(1-methyl-...  | 140 C10H20             | 001678-82-6 58 |





Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU040419\  
Data File : VU030631.D  
Acq On : 03 Apr 2019 16:47  
Operator : JC/SP  
Sample : K2148-11  
Misc : 4.46µL/5mL/100µL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 7 Sample Multiplier: 1

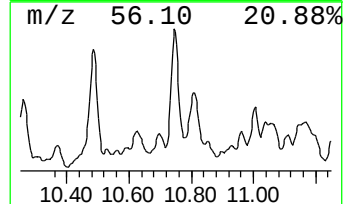
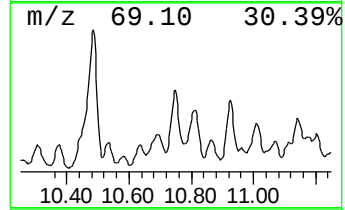
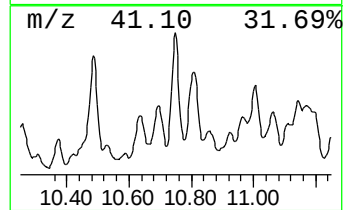
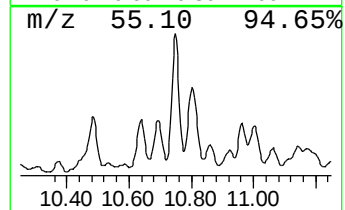
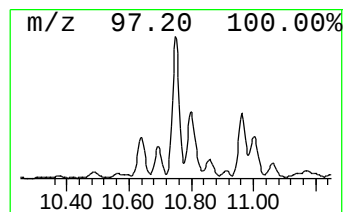
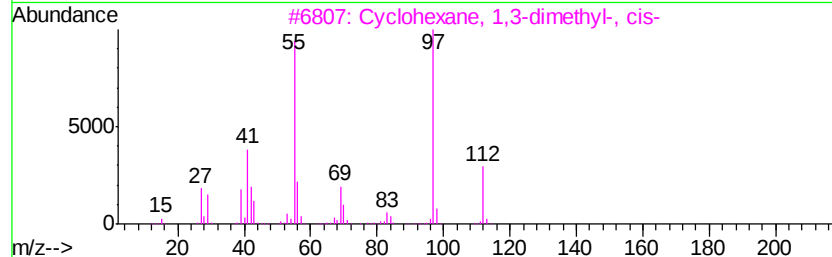
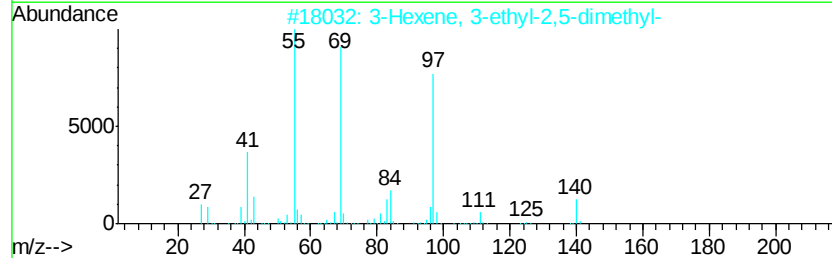
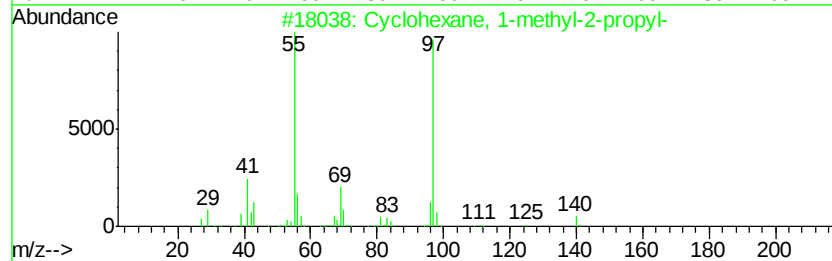
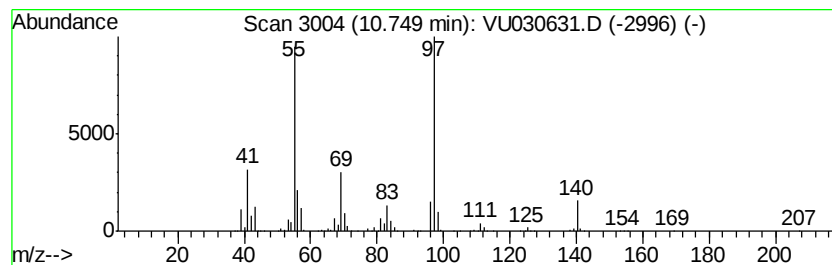
Instrument :  
MSVOA\_U  
ClientSampled :  
BF5F8

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM032319WMA.M  
Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 25 (DEL) Alkane: Cyclic10.75 Concentration Rank 13

| R.T.      | EstConc                          | Area    | Relative to ISTD       | R.T.        |      |
|-----------|----------------------------------|---------|------------------------|-------------|------|
| 10.75     | 55.61 ug/L                       | 1764850 | 1,4-Dichlorobenzene-d4 | 11.48       |      |
| Hit# of 5 | Tentative ID                     | MW      | MolForm                | CAS#        | Qual |
| 1         | Cvclohexane, 1-methyl-2-propyl-  | 140     | C10H20                 | 004291-79-6 | 87   |
| 2         | 3-Hexene, 3-ethyl-2,5-dimethyl-  | 140     | C10H20                 | 062338-08-3 | 81   |
| 3         | Cvclohexane, 1,3-dimethyl-, cis- | 112     | C8H16                  | 000638-04-0 | 72   |
| 4         | Cvclohexane, 1,3-dimethyl-, cis- | 112     | C8H16                  | 000638-04-0 | 72   |
| 5         | Cyclohexane, 1-ethyl-1-methyl-   | 126     | C9H18                  | 004926-90-3 | 64   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU040419\  
Data File : VU030631.D  
Acq On : 03 Apr 2019 16:47  
Operator : JC/SP  
Sample : K2148-11  
Misc : 4.46µ/5mL/100µL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
BF5F8

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM032319WMA.M  
Quant Title : VOC Analysis

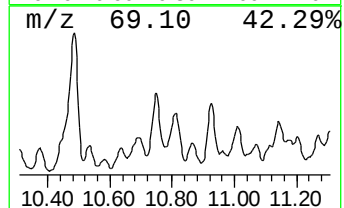
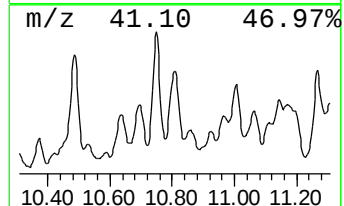
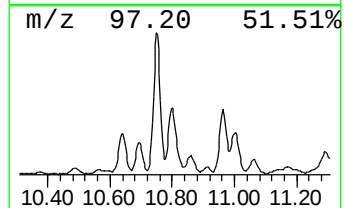
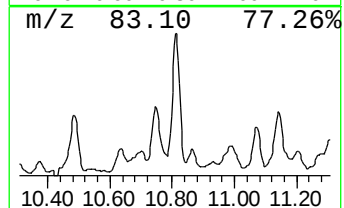
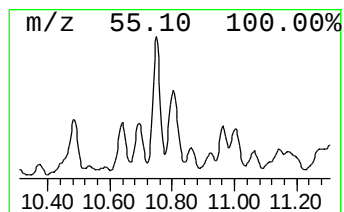
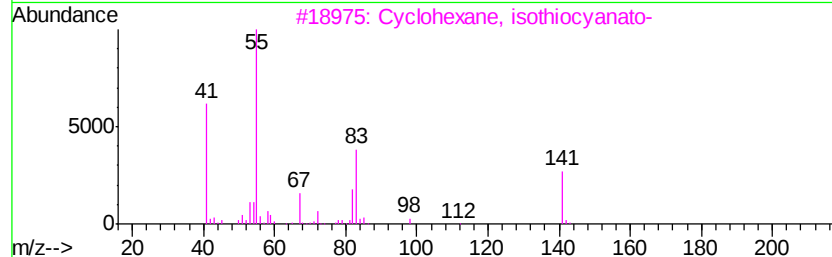
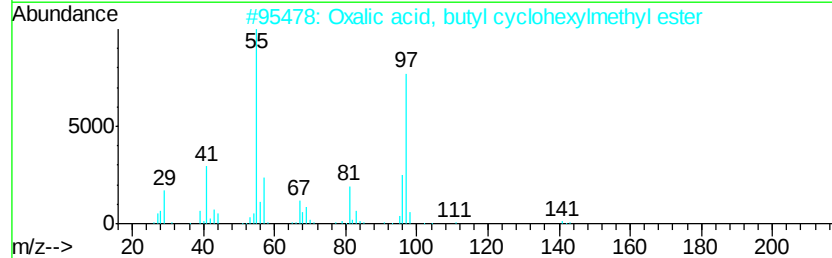
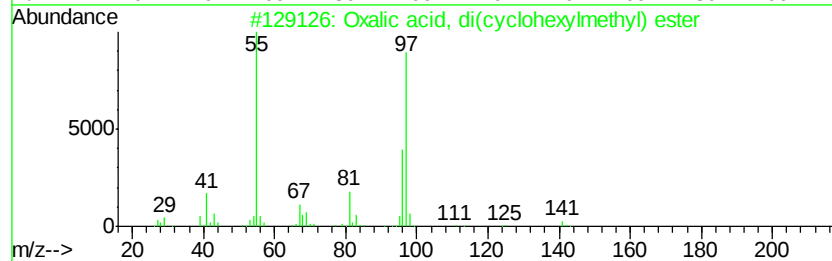
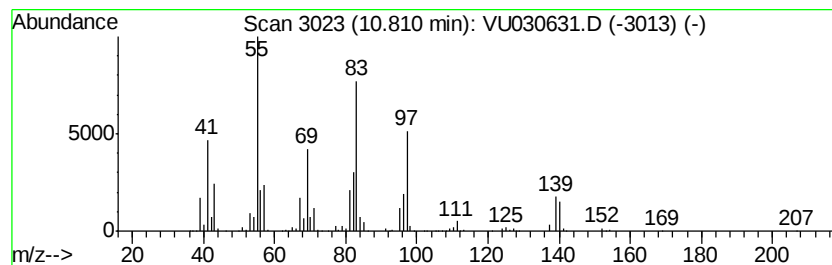
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 26 unknown-04 Concentration Rank 23

| R.T.  | EstConc    | Area    | Relative to ISTD       | R.T.  |
|-------|------------|---------|------------------------|-------|
| 10.81 | 42.96 ug/L | 1363530 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|-------------------------------------|-----|----------|--------------|------|
| 1    | 5  | Oxalic acid, di(cvclohexvlmethvl... | 282 | C16H26O4 | 1000309-68-5 | 43   |
| 2    |    | Oxalic acid, butyl cvclohexvlmet... | 242 | C13H22O4 | 1000309-68-2 | 43   |
| 3    |    | Cvclohexane, isothiocyvanato-       | 141 | C7H11NS  | 001122-82-3  | 38   |
| 4    |    | Cvclohexane, (2-methylpropvl)-      | 140 | C10H20   | 001678-98-4  | 38   |
| 5    |    | Cyclohexane, (2-methylpropyl)-      | 140 | C10H20   | 001678-98-4  | 38   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU040419\  
Data File : VU030631.D  
Acq On : 03 Apr 2019 16:47  
Operator : JC/SP  
Sample : K2148-11  
Misc : 4.46µ/5mL/100µL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
BF5F8

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM032319WMA.M  
Quant Title : VOC Analysis

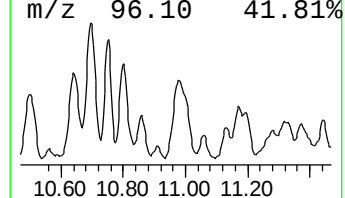
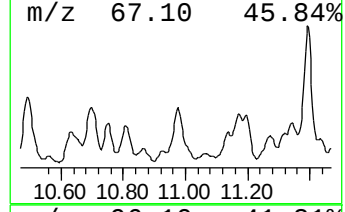
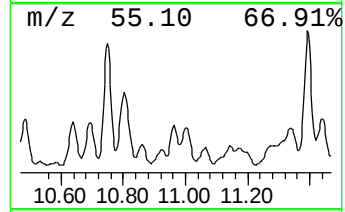
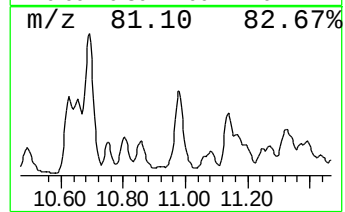
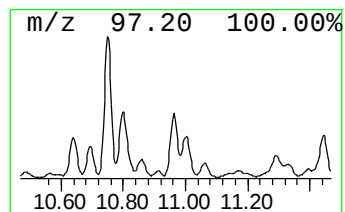
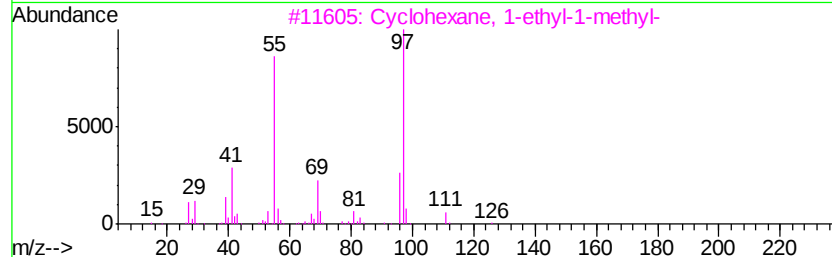
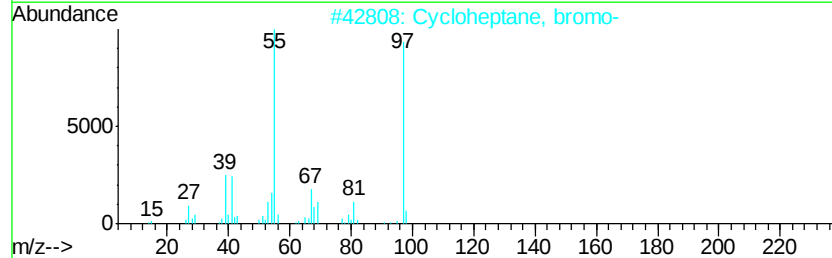
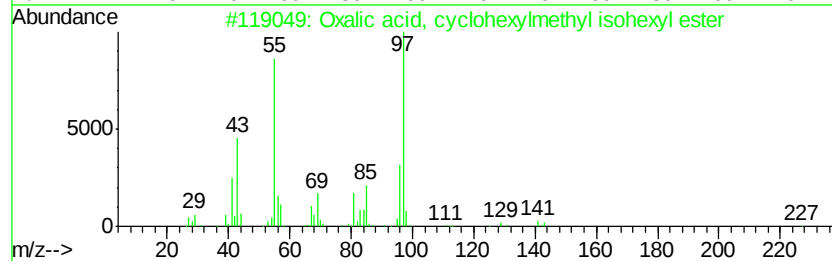
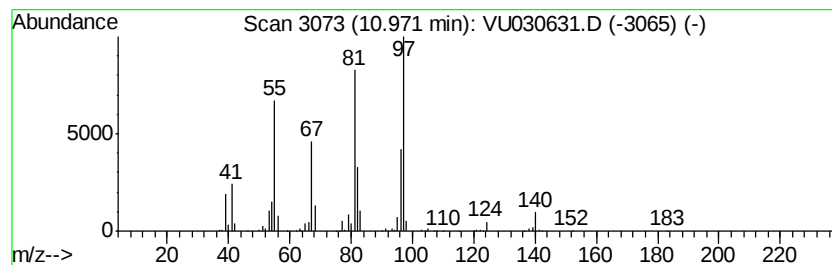
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 27 Oxalic acid, cyclohexylmeth... Concentration Rank 40

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 10.97 | 15.53 ug/L | 492883 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|-------------------------------------|-----|----------|--------------|------|
| 1    | 5  | Oxalic acid, cyclohexylmethvl is... | 270 | C15H26O4 | 1000309-68-3 | 53   |
| 2    |    | Cycloheptane, bromo-                | 176 | C7H13Br  | 002404-35-5  | 50   |
| 3    |    | Cyclohexane, 1-ethyl-1-methyl-      | 126 | C9H18    | 004926-90-3  | 50   |
| 4    |    | Cyclohexane, 1-ethyl-4-methyl-, ... | 126 | C9H18    | 004926-78-7  | 50   |
| 5    |    | 1-Methyl-4-(1-methylethyl)-cyclo... | 140 | C10H20   | 000099-82-1  | 49   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU040419\  
Data File : VU030631.D  
Acq On : 03 Apr 2019 16:47  
Operator : JC/SP  
Sample : K2148-11  
Misc : 4.46µ/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampled :  
BF5F8

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM032319WMA.M  
Quant Title : VOC Analysis

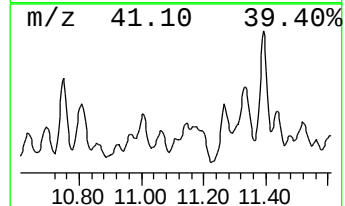
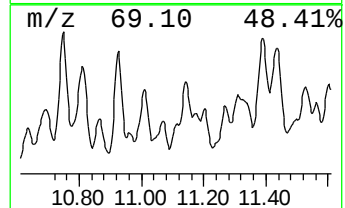
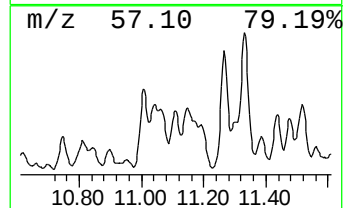
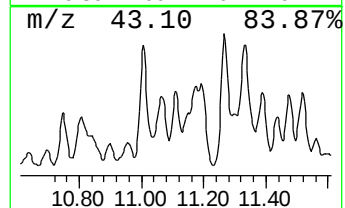
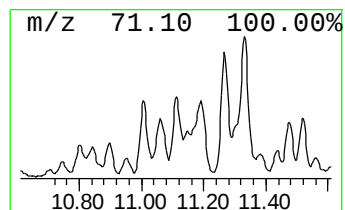
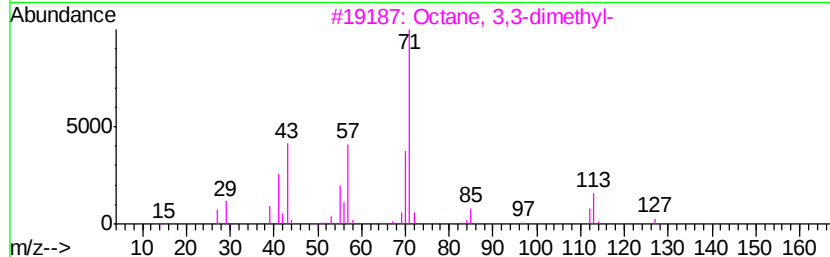
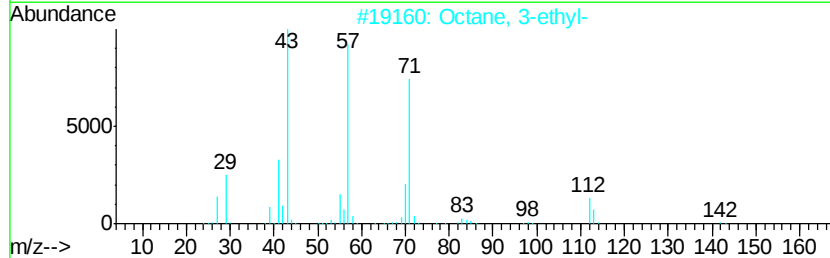
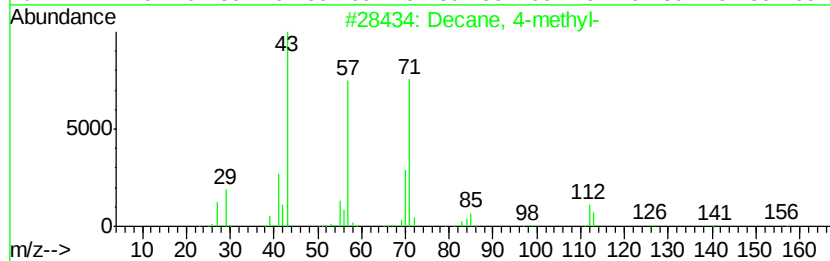
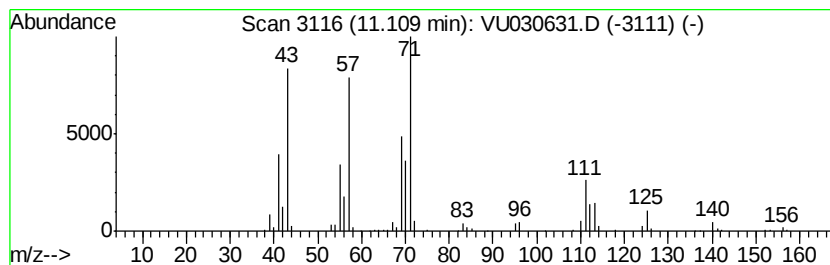
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 28 (DEL) Alkane: Straight-Chai... Concentration Rank 50

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 11.11 | 6.60 ug/L | 209445 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# | of | 5 | Tentative ID              | MW  | MolForm | CAS#        | Qual |
|------|----|---|---------------------------|-----|---------|-------------|------|
| 1    |    |   | Decane, 4-methyl-         | 156 | C11H24  | 002847-72-5 | 62   |
| 2    |    |   | Octane, 3-ethyl-          | 142 | C10H22  | 005881-17-4 | 53   |
| 3    |    |   | Octane, 3,3-dimethyl-     | 142 | C10H22  | 004110-44-5 | 50   |
| 4    |    |   | Heptane, 3,3,5-trimethyl- | 142 | C10H22  | 007154-80-5 | 50   |
| 5    |    |   | Octane, 3-ethyl-          | 142 | C10H22  | 005881-17-4 | 50   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU040419\  
Data File : VU030631.D  
Acq On : 03 Apr 2019 16:47  
Operator : JC/SP  
Sample : K2148-11  
Misc : 4.46µ/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
BF5F8

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM032319WMA.M  
Quant Title : VOC Analysis

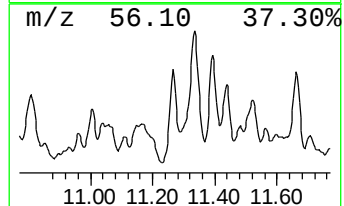
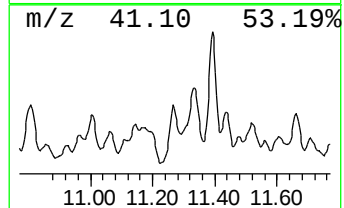
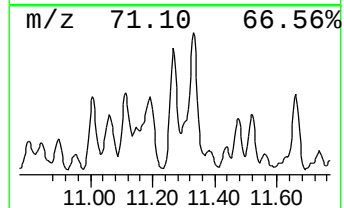
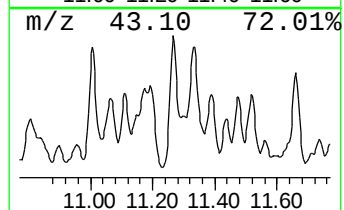
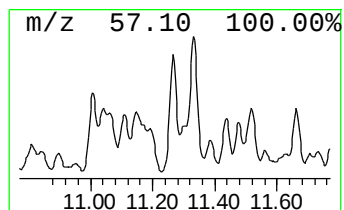
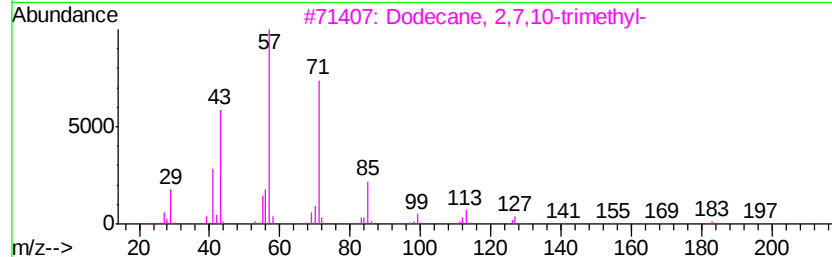
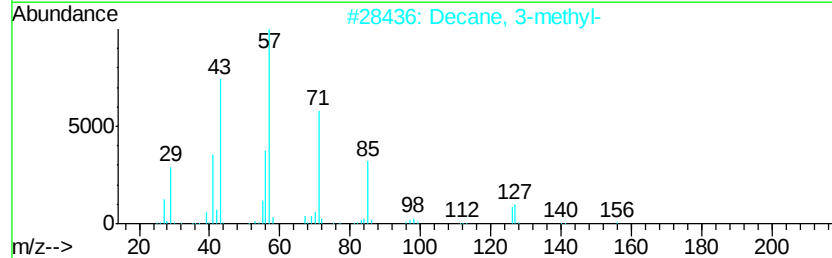
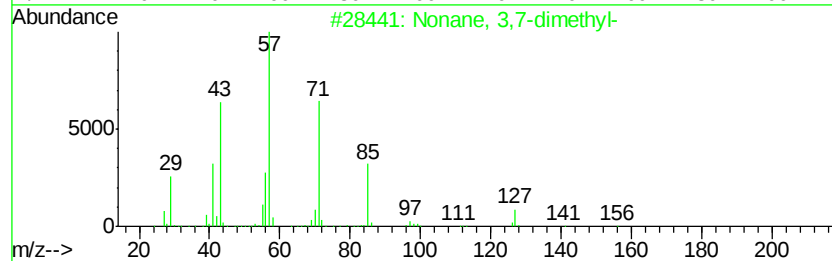
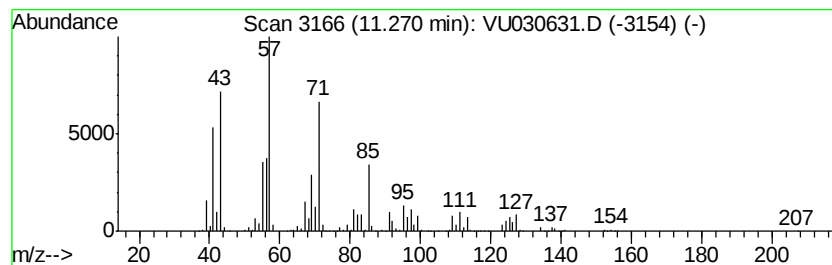
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TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 29 (DEL) Alkane: Straight-Chai... Concentration Rank 16

| R.T.  | EstConc    | Area    | Relative to ISTD       | R.T.  |
|-------|------------|---------|------------------------|-------|
| 11.27 | 49.41 ug/L | 1568070 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# | of | Tentative ID                      | MW  | MolForm   | CAS#         | Qual |
|------|----|-----------------------------------|-----|-----------|--------------|------|
| 1    | 5  | Nonane, 3,7-dimethyl-             | 156 | C11H24    | 017302-32-8  | 68   |
| 2    |    | Decane, 3-methyl-                 | 156 | C11H24    | 013151-34-3  | 59   |
| 3    |    | Dodecane, 2,7,10-trimethyl-       | 212 | C15H32    | 074645-98-0  | 47   |
| 4    |    | Sulfurous acid, butyl nonyl ester | 264 | C13H28O3S | 1000309-17-6 | 47   |
| 5    |    | Heptacosane                       | 380 | C27H56    | 000593-49-7  | 47   |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU040419\  
Data File : VU030631.D  
Acq On : 03 Apr 2019 16:47  
Operator : JC/SP  
Sample : K2148-11  
Misc : 4.46µ/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
BF5F8

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM032319WMA.M  
Quant Title : VOC Analysis

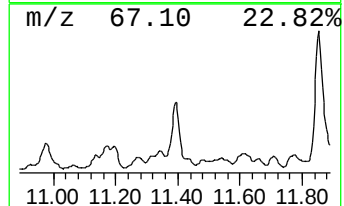
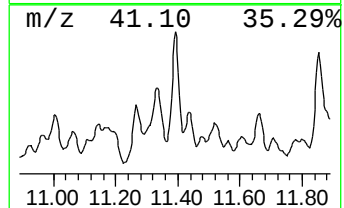
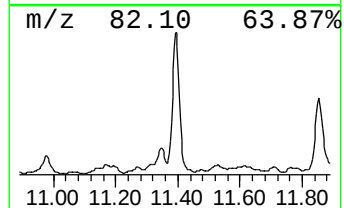
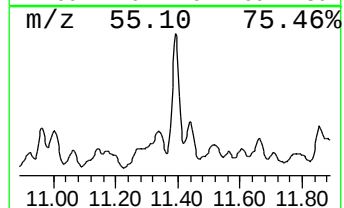
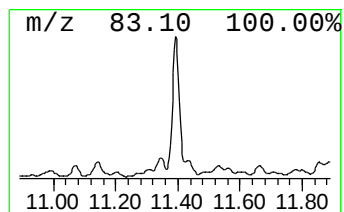
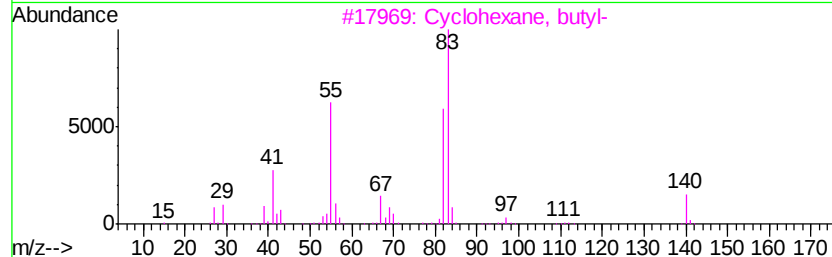
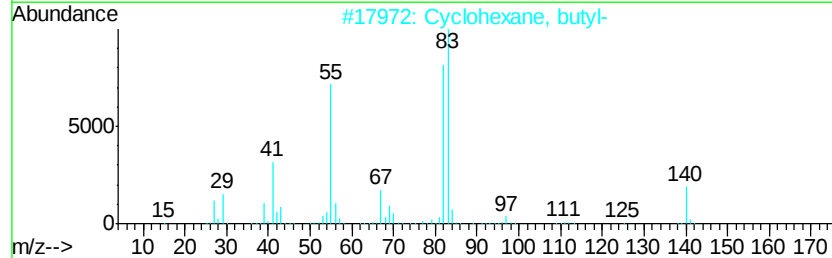
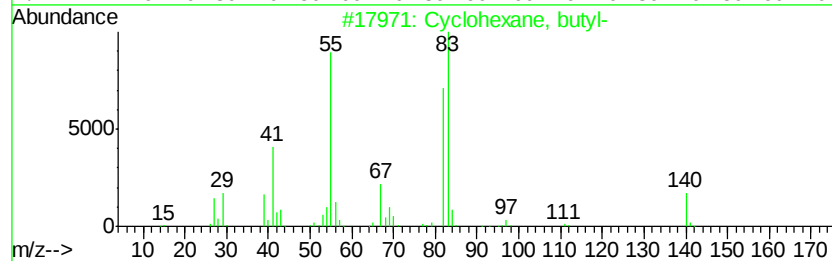
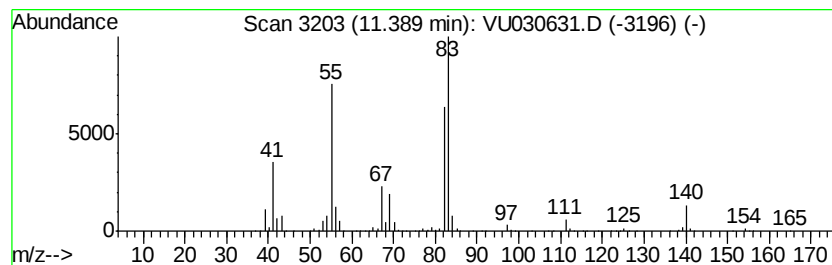
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 30 (DEL) Alkane: Cyclic11.39 Concentration Rank 11

| R.T.  | EstConc    | Area    | Relative to ISTD       | R.T.  |
|-------|------------|---------|------------------------|-------|
| 11.39 | 64.20 ug/L | 2037480 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# | of | Tentative ID                  | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------|-----|---------|-------------|------|
| 1    | 5  | Cyclohexane, butyl-           | 140 | C10H20  | 001678-93-9 | 95   |
| 2    |    | Cyclohexane, butyl-           | 140 | C10H20  | 001678-93-9 | 90   |
| 3    |    | Cyclohexane, butyl-           | 140 | C10H20  | 001678-93-9 | 90   |
| 4    |    | Cyclohexane, (1-methylethyl)- | 126 | C9H18   | 000696-29-7 | 86   |
| 5    |    | Cyclohexane, pentyl-          | 154 | C11H22  | 004292-92-6 | 83   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU040419\  
Data File : VU030631.D  
Acq On : 03 Apr 2019 16:47  
Operator : JC/SP  
Sample : K2148-11  
Misc : 4.46g/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 7 Sample Multiplier: 1

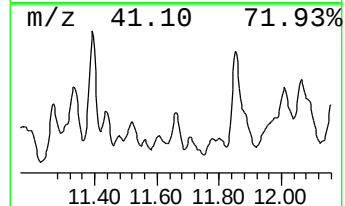
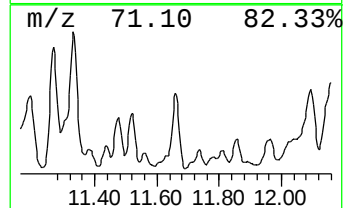
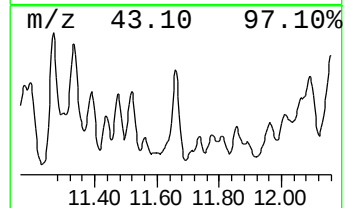
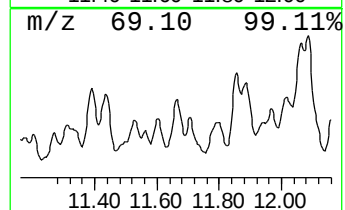
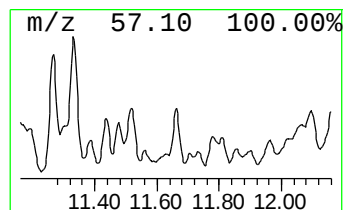
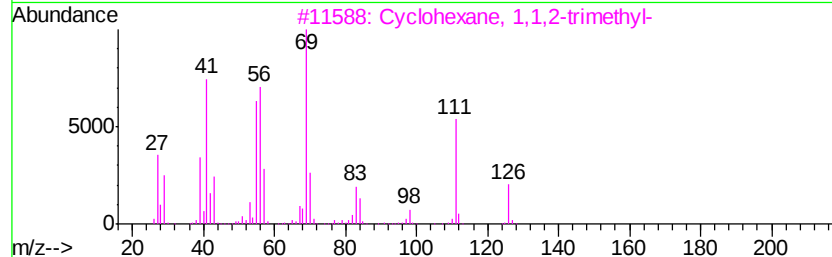
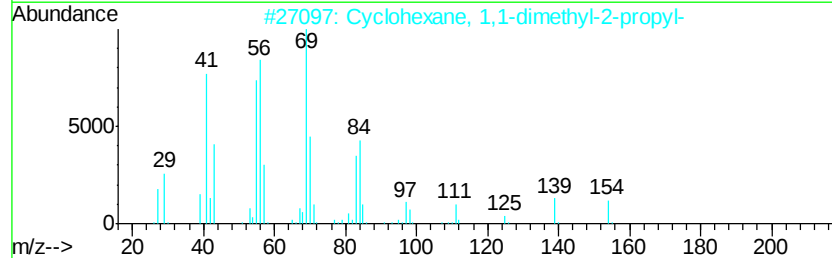
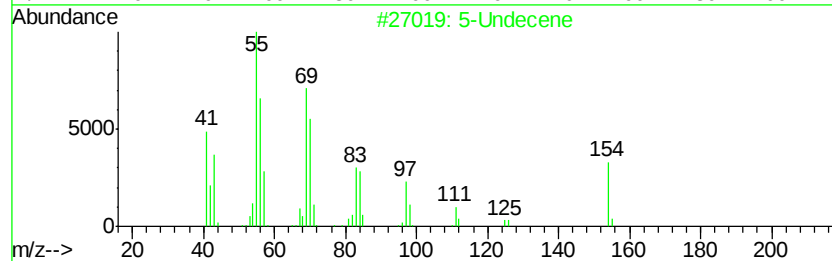
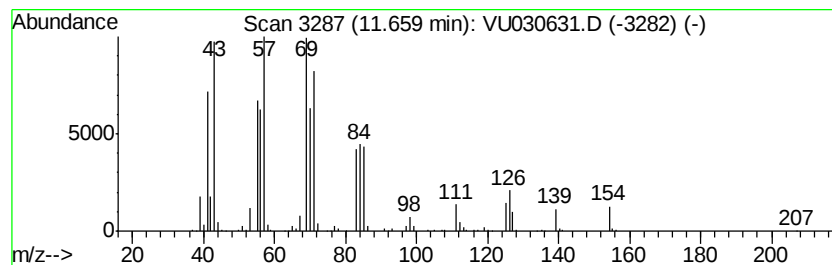
Instrument :  
MSVOA\_U  
ClientSampleId :  
BF5F8

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM032319WMA.M  
Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 31 (DEL) Alkane: Cyclic11.66 Concentration Rank 32

| R.T.      | EstConc                             | Area   | Relative to ISTD       | R.T.        |      |
|-----------|-------------------------------------|--------|------------------------|-------------|------|
| 11.66     | 22.88 ug/L                          | 726204 | 1,4-Dichlorobenzene-d4 | 11.48       |      |
| Hit# of 5 | Tentative ID                        | MW     | MolForm                | CAS#        | Qual |
| 1         | 5-Undecene                          | 154    | C11H22                 | 004941-53-1 | 58   |
| 2         | Cyclohexane, 1,1-dimethyl-2-propyl- | 154    | C11H22                 | 081983-71-3 | 46   |
| 3         | Cyclohexane, 1,1,2-trimethyl-       | 126    | C9H18                  | 007094-26-0 | 38   |
| 4         | 1-Undecene                          | 154    | C11H22                 | 000821-95-4 | 38   |
| 5         | Cyclohexane, 1,1,2-trimethyl-       | 126    | C9H18                  | 007094-26-0 | 38   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU040419\  
Data File : VU030631.D  
Acq On : 03 Apr 2019 16:47  
Operator : JC/SP  
Sample : K2148-11  
Misc : 4.46µ/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 7 Sample Multiplier: 1

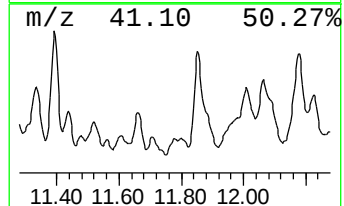
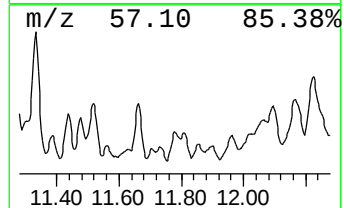
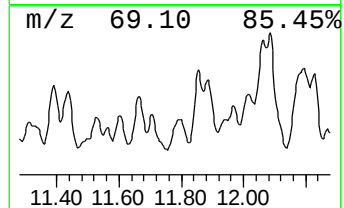
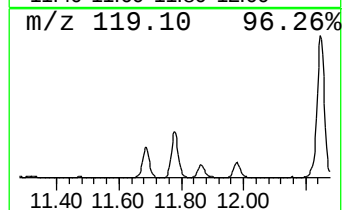
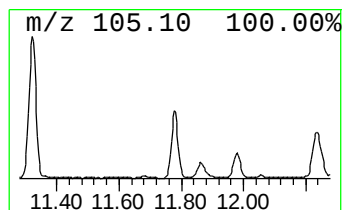
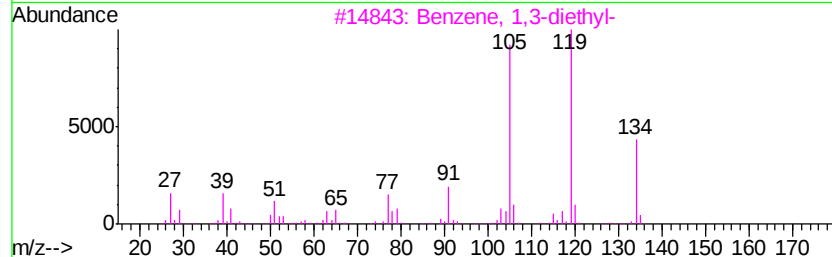
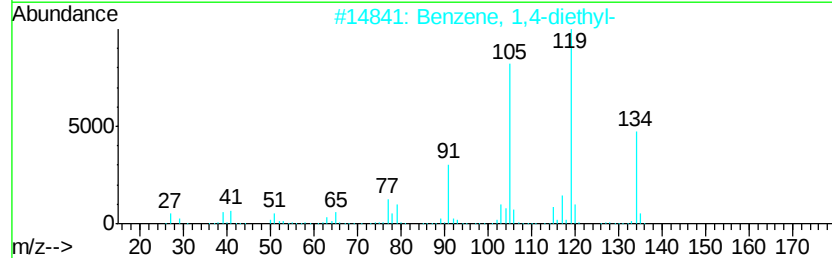
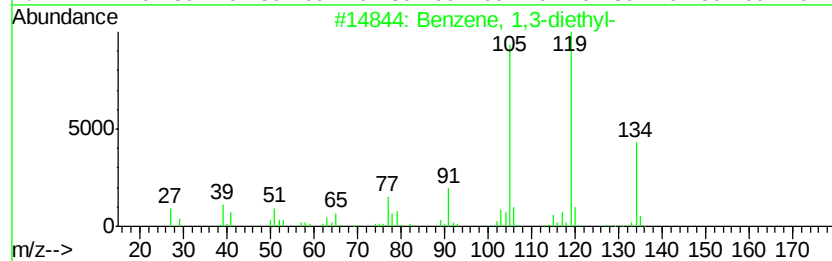
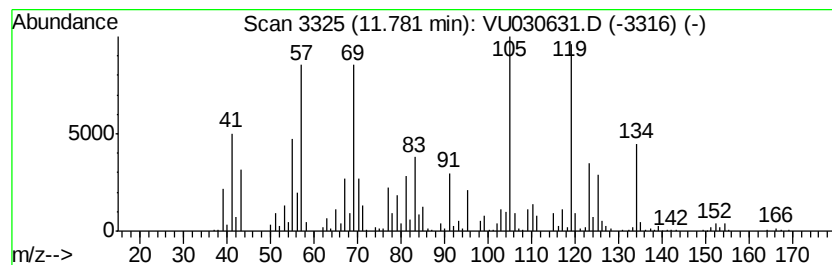
Instrument :  
MSVOA\_U  
ClientSampleId :  
BF5F8

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM032319WMA.M  
Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 32 Benzene, 1,3-diethyl- Concentration Rank 27

| R.T.    | EstConc    | Area                  | Relative to ISTD       | R.T.           |
|---------|------------|-----------------------|------------------------|----------------|
| 11.78   | 29.50 ug/L | 936278                | 1,4-Dichlorobenzene-d4 | 11.48          |
| Hit# of | 5          | Tentative ID          | MW MolForm             | CAS# Qual      |
| 1       |            | Benzene, 1,3-diethyl- | 134 C10H14             | 000141-93-5 86 |
| 2       |            | Benzene, 1,4-diethyl- | 134 C10H14             | 000105-05-5 84 |
| 3       |            | Benzene, 1,3-diethyl- | 134 C10H14             | 000141-93-5 80 |
| 4       |            | Benzene, 1,3-diethyl- | 134 C10H14             | 000141-93-5 80 |
| 5       |            | Benzene, 1,2-diethyl- | 134 C10H14             | 000135-01-3 55 |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU040419\  
Data File : VU030631.D  
Acq On : 03 Apr 2019 16:47  
Operator : JC/SP  
Sample : K2148-11  
Misc : 4.46µ/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 7 Sample Multiplier: 1

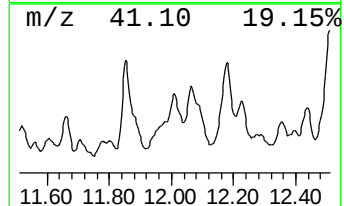
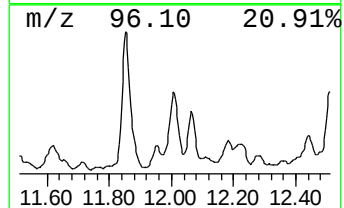
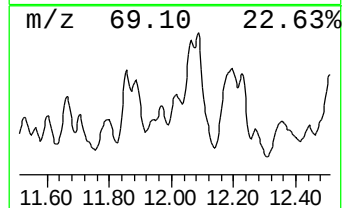
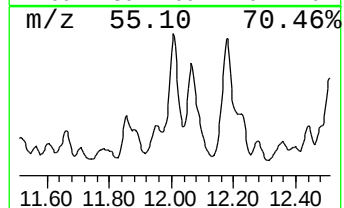
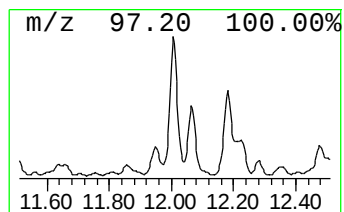
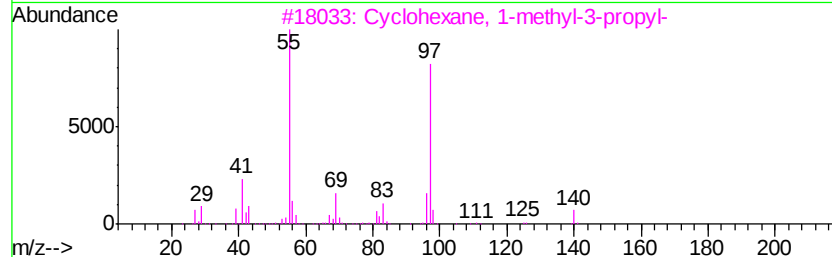
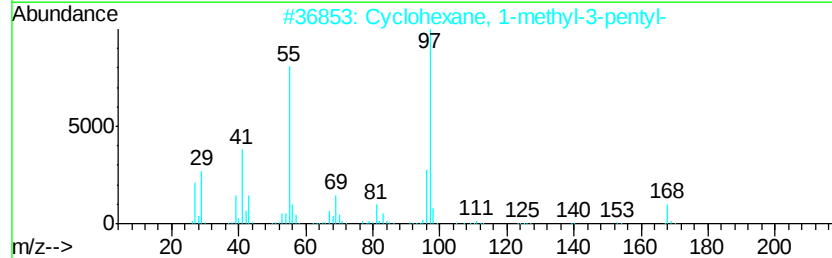
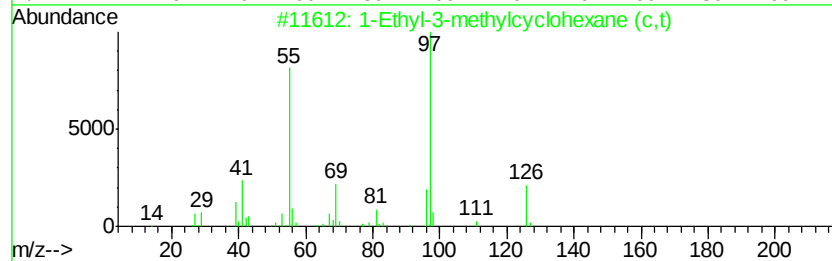
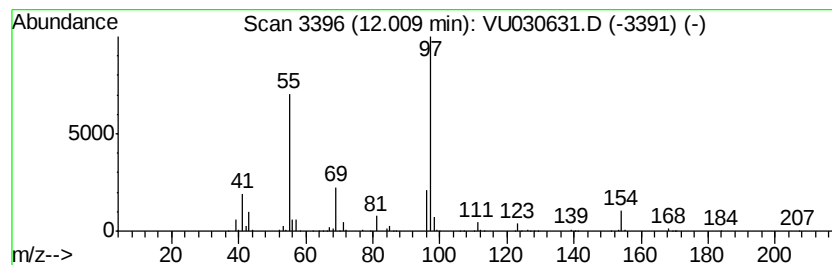
Instrument :  
MSVOA\_U  
ClientSampleId :  
BF5F8

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM032319WMA.M  
Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 33 1-Ethyl-3-methylcyclohexane... Concentration Rank 29

| R.T.    | EstConc    | Area                              | Relative to ISTD       | R.T.           |
|---------|------------|-----------------------------------|------------------------|----------------|
| 12.01   | 26.15 ug/L | 829903                            | 1,4-Dichlorobenzene-d4 | 11.48          |
| Hit# of | 5          | Tentative ID                      | MW MolForm             | CAS# Qual      |
| 1       |            | 1-Ethyl-3-methylcyclohexane (c,t) | 126 C9H18              | 003728-55-0 64 |
| 2       |            | Cyclohexane, 1-methyl-3-pentyl-   | 168 C12H24             | 054411-02-8 64 |
| 3       |            | Cyclohexane, 1-methyl-3-propyl-   | 140 C10H20             | 004291-80-9 59 |
| 4       |            | cis-1-Ethyl-3-methyl-cyclohexane  | 126 C9H18              | 019489-10-2 56 |
| 5       |            | Cyclohexane, 1-ethyl-1-methyl-    | 126 C9H18              | 004926-90-3 56 |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU040419\  
Data File : VU030631.D  
Acq On : 03 Apr 2019 16:47  
Operator : JC/SP  
Sample : K2148-11  
Misc : 4.46µ/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
BF5F8

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM032319WMA.M  
Quant Title : VOC Analysis

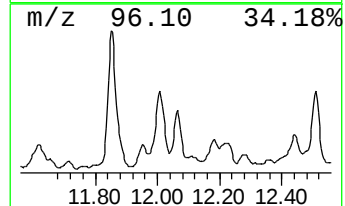
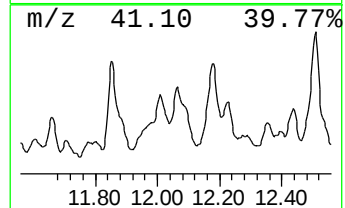
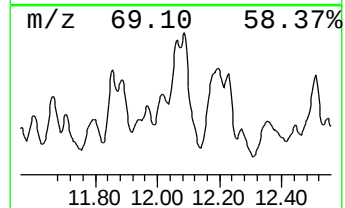
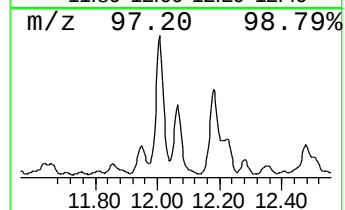
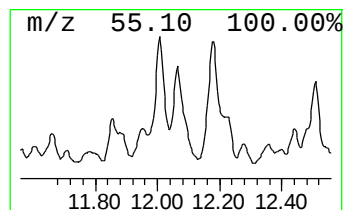
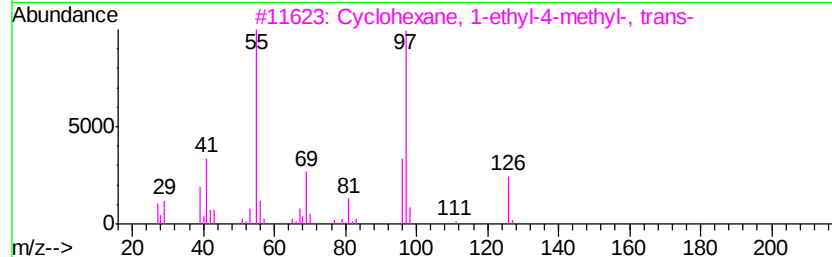
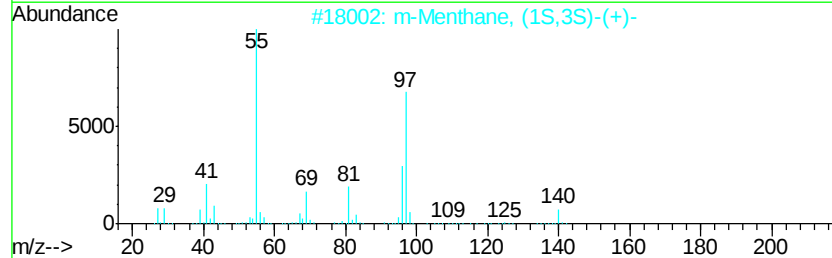
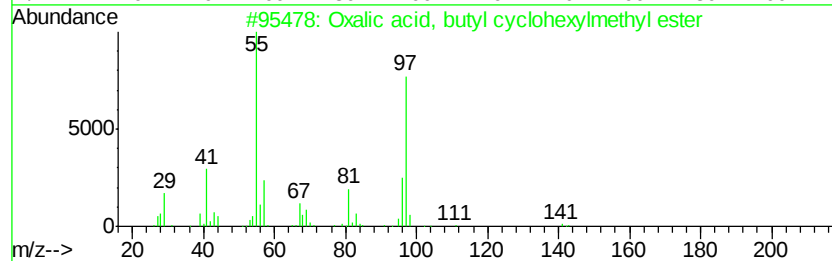
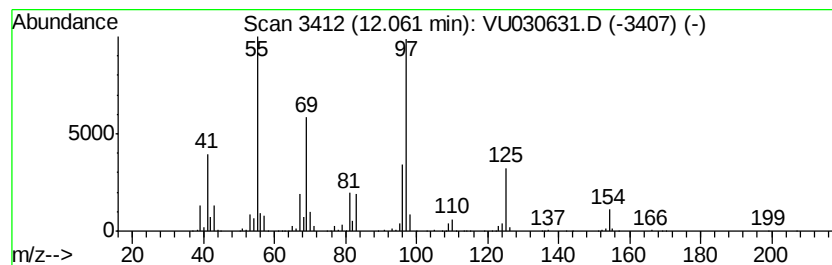
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 34 Oxalic acid, butyl cyclohex... Concentration Rank 8

| R.T.  | EstConc    | Area    | Relative to ISTD       | R.T.  |
|-------|------------|---------|------------------------|-------|
| 12.06 | 78.77 ug/L | 2499880 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|-------------------------------------|-----|----------|--------------|------|
| 1    | 5  | Oxalic acid, butyl cyclohexylmet... | 242 | C13H22O4 | 1000309-68-2 | 59   |
| 2    |    | m-Menthane, (1S,3S)-(+)-            | 140 | C10H20   | 013837-67-7  | 59   |
| 3    |    | Cyclohexane, 1-ethyl-4-methyl-, ... | 126 | C9H18    | 006236-88-0  | 53   |
| 4    |    | Cyclohexane, 1-isopropyl-1-methyl-  | 140 | C10H20   | 016580-26-0  | 53   |
| 5    |    | Cyclohexane, 1-ethyl-1-methyl-      | 126 | C9H18    | 004926-90-3  | 53   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU040419\  
Data File : VU030631.D  
Acq On : 03 Apr 2019 16:47  
Operator : JC/SP  
Sample : K2148-11  
Misc : 4.46µ/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
BF5F8

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM032319WMA.M  
Quant Title : VOC Analysis

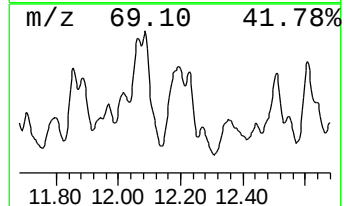
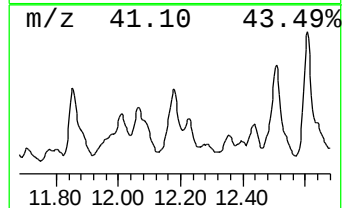
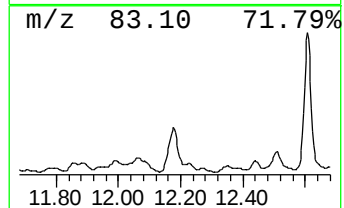
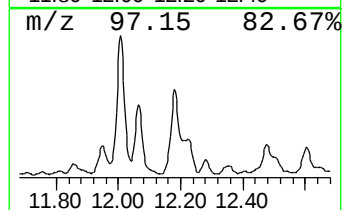
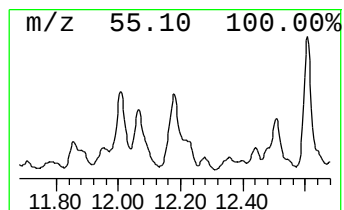
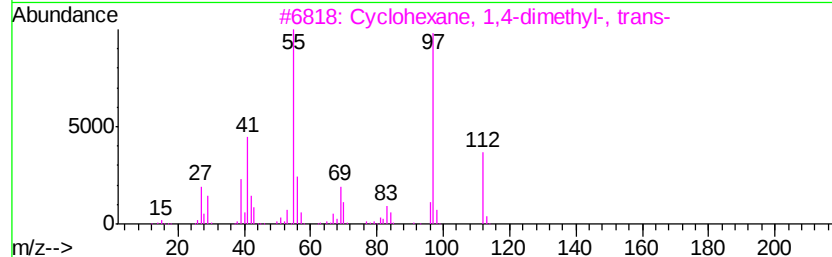
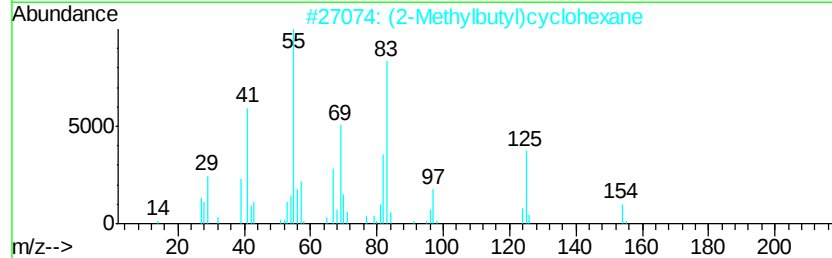
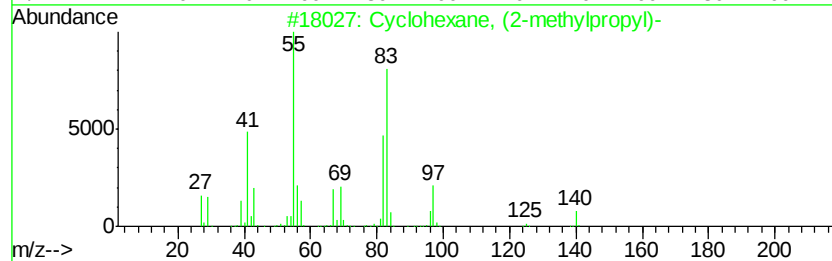
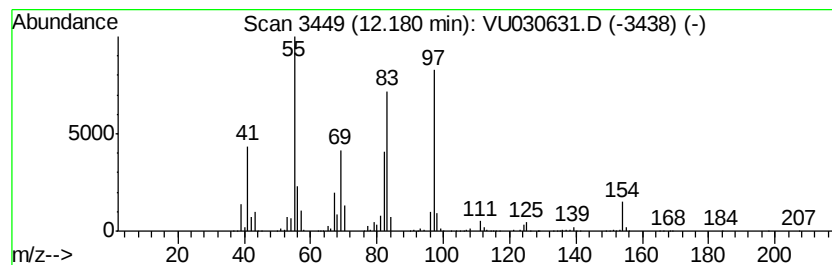
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 35 (DEL) Alkane: Cyclic12.18 Concentration Rank 10

| R.T.  | EstConc    | Area    | Relative to ISTD       | R.T.  |
|-------|------------|---------|------------------------|-------|
| 12.18 | 70.52 ug/L | 2238110 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Cyclohexane, (2-methylpropyl)-      | 140 | C10H20  | 001678-98-4 | 50   |
| 2    |    | (2-Methylbutyl)cyclohexane          | 154 | C11H22  | 054105-77-0 | 49   |
| 3    |    | Cyclohexane, 1,4-dimethyl-, trans-  | 112 | C8H16   | 002207-04-7 | 49   |
| 4    |    | Cyclohexane, 1-ethyl-2-methyl-, ... | 126 | C9H18   | 004923-77-7 | 46   |
| 5    |    | Cyclohexane, pentyl-                | 154 | C11H22  | 004292-92-6 | 46   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU040419\  
Data File : VU030631.D  
Acq On : 03 Apr 2019 16:47  
Operator : JC/SP  
Sample : K2148-11  
Misc : 4.46µ/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
BF5F8

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM032319WMA.M  
Quant Title : VOC Analysis

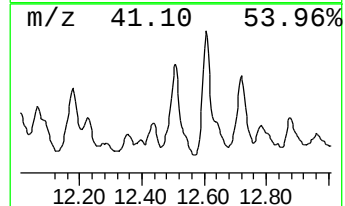
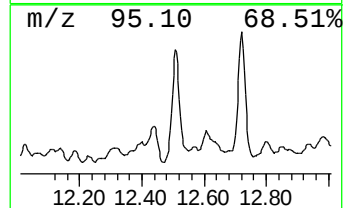
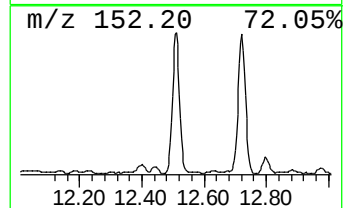
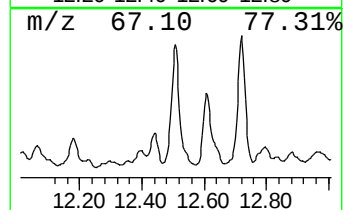
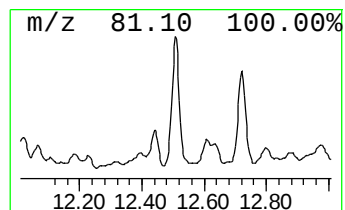
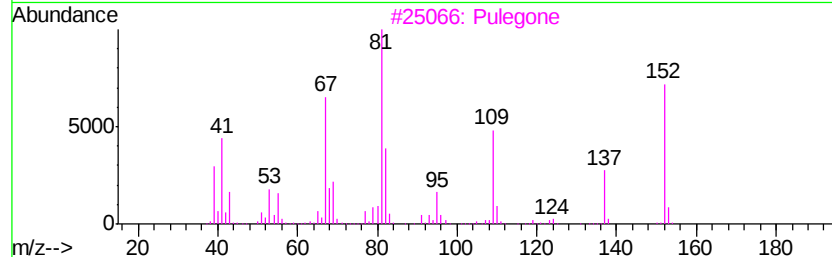
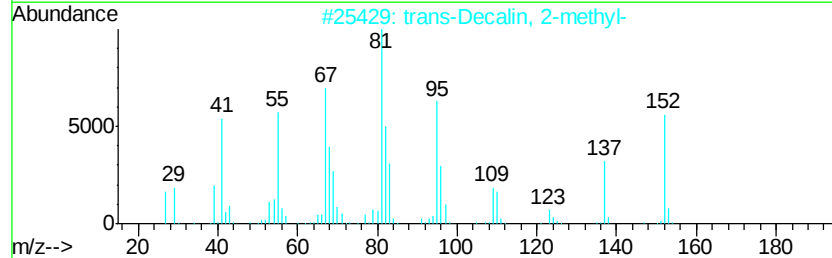
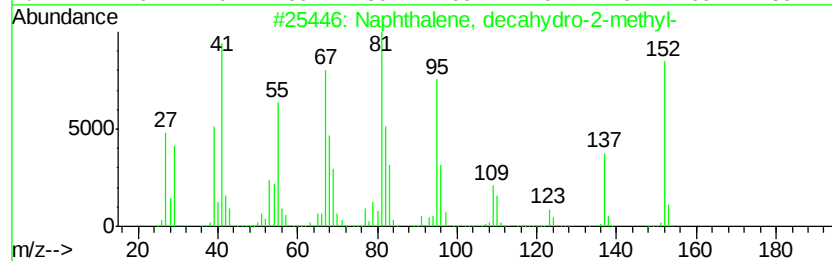
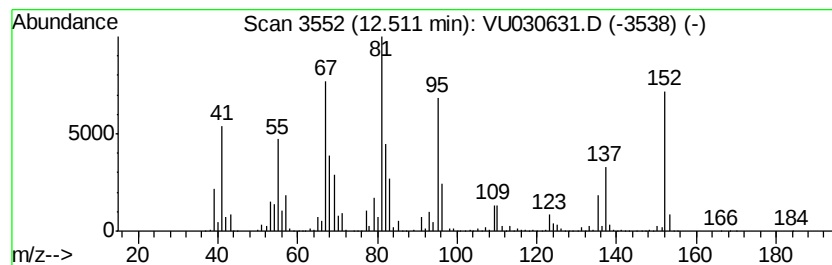
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 36 Naphthalene, decahydro-2-me... Concentration Rank 1

| R.T.  | EstConc     | Area    | Relative to ISTD       | R.T.  |
|-------|-------------|---------|------------------------|-------|
| 12.51 | 171.63 ug/L | 5447030 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#         | Qual |
|------|----|-------------------------------------|-----|---------|--------------|------|
| 1    | 5  | Naphthalene, decahydro-2-methyl-    | 152 | C11H20  | 002958-76-1  | 97   |
| 2    |    | trans-Decalin, 2-methyl-            | 152 | C11H20  | 1000152-47-3 | 95   |
| 3    |    | Pulegone                            | 152 | C10H16O | 000089-82-7  | 89   |
| 4    |    | Cyclohexanone, 5-methyl-2-(1-met... | 152 | C10H16O | 015932-80-6  | 68   |
| 5    |    | Bicyclo[2.2.1]heptan-2-one, 1,7,... | 152 | C10H16O | 000464-48-2  | 64   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU040419\  
Data File : VU030631.D  
Acq On : 03 Apr 2019 16:47  
Operator : JC/SP  
Sample : K2148-11  
Misc : 4.46µ/5mL/100µL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
BF5F8

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM032319WMA.M  
Quant Title : VOC Analysis

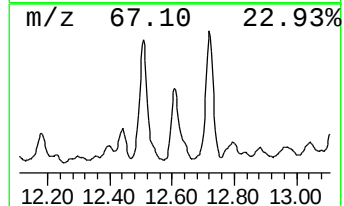
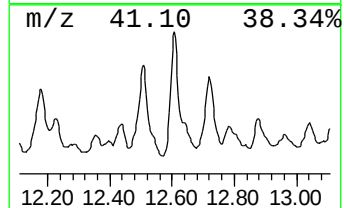
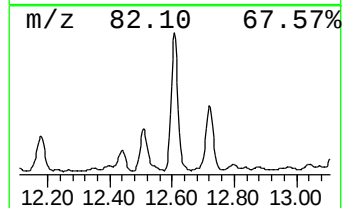
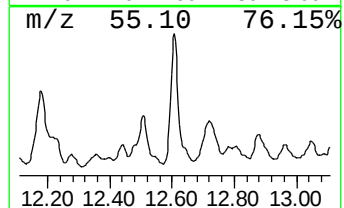
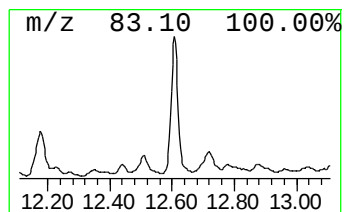
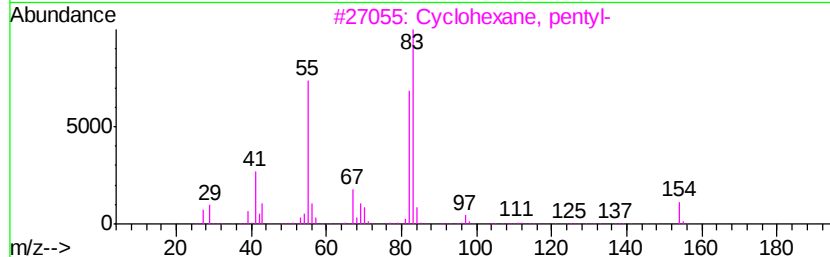
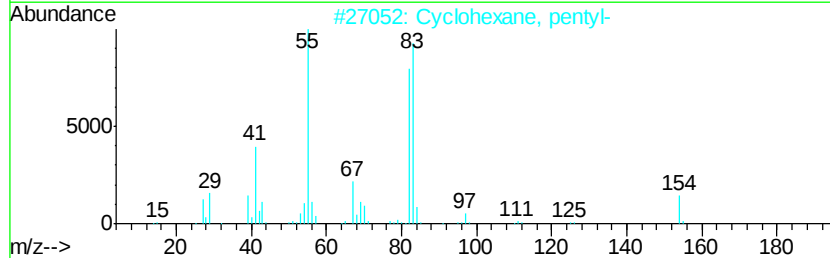
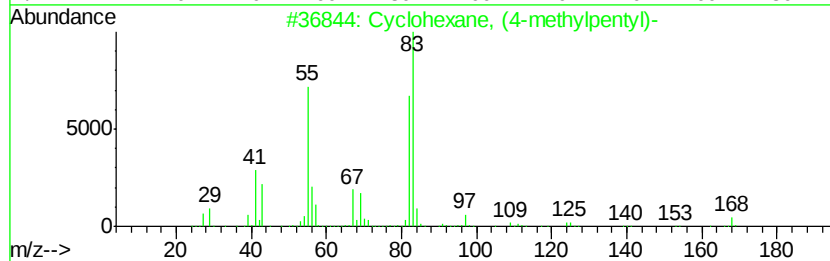
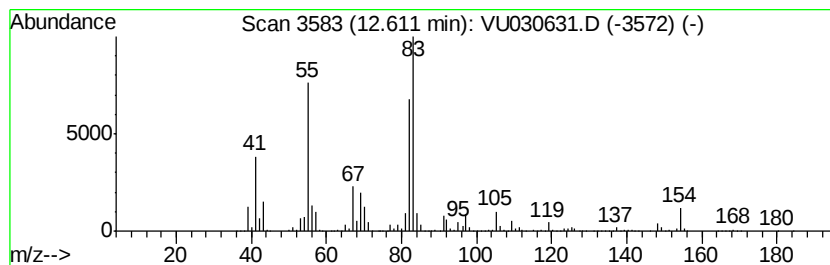
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 37 (DEL) Alkane: Cyclic12.61 Concentration Rank 2

| R.T.  | EstConc     | Area    | Relative to ISTD       | R.T.  |
|-------|-------------|---------|------------------------|-------|
| 12.61 | 142.68 ug/L | 4528260 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# | of | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------------|-----|---------|-------------|------|
| 1    | 5  | Cyclohexane, (4-methylpentyl)- | 168 | C12H24  | 061142-20-9 | 90   |
| 2    |    | Cyclohexane, pentyl-           | 154 | C11H22  | 004292-92-6 | 90   |
| 3    |    | Cyclohexane, pentyl-           | 154 | C11H22  | 004292-92-6 | 90   |
| 4    |    | Cyclohexane, pentyl-           | 154 | C11H22  | 004292-92-6 | 87   |
| 5    |    | Cyclohexane, (1-methylethyl)-  | 126 | C9H18   | 000696-29-7 | 81   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU040419\  
Data File : VU030631.D  
Acq On : 03 Apr 2019 16:47  
Operator : JC/SP  
Sample : K2148-11  
Misc : 4.46µ/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 7 Sample Multiplier: 1

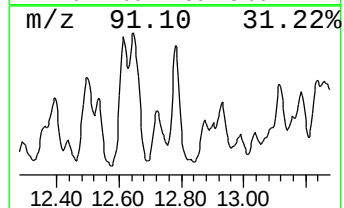
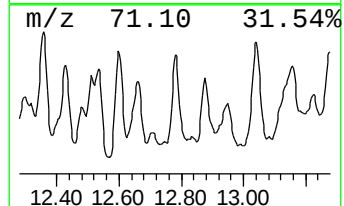
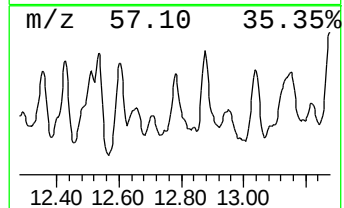
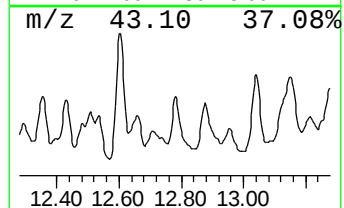
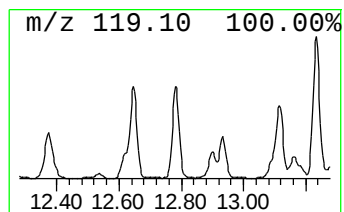
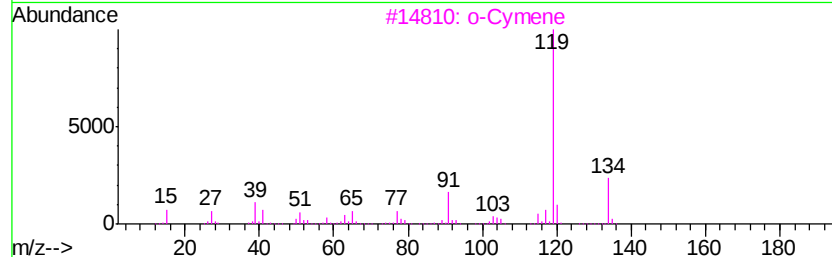
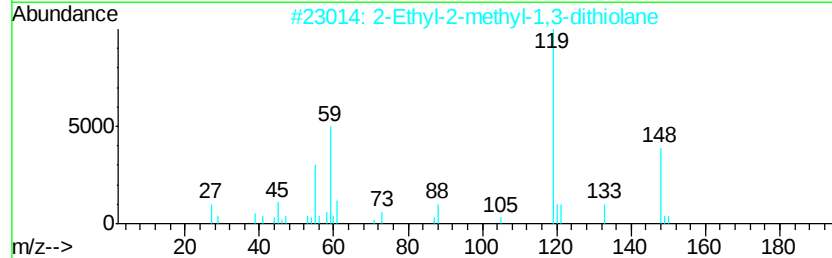
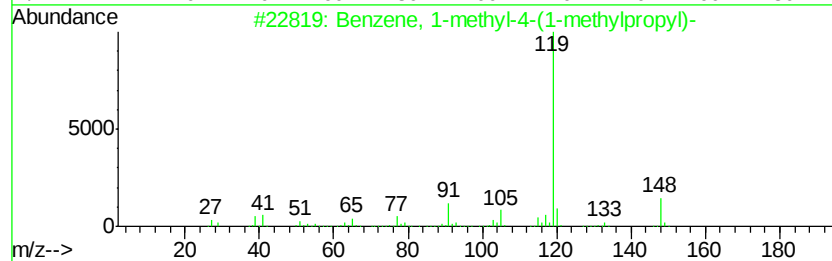
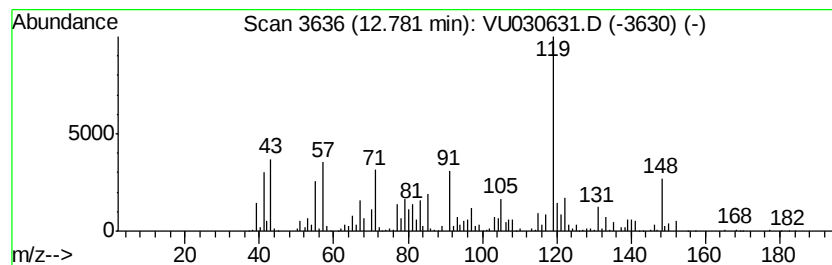
Instrument :  
MSVOA\_U  
ClientSampleId :  
BF5F8

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM032319WMA.M  
Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 39 unknown-05 Concentration Rank 15

| R.T.    | EstConc    | Area                                | Relative to ISTD       | R.T.           |
|---------|------------|-------------------------------------|------------------------|----------------|
| 12.78   | 53.40 ug/L | 1694810                             | 1,4-Dichlorobenzene-d4 | 11.48          |
| Hit# of | 5          | Tentative ID                        | MW MolForm             | CAS# Qual      |
| 1       |            | Benzene, 1-methyl-4-(1-methylpro... | 148 C11H16             | 001595-16-0 49 |
| 2       |            | 2-Ethyl-2-methyl-1,3-dithiolane     | 148 C6H12S2            | 006008-81-7 46 |
| 3       |            | o-Cymene                            | 134 C10H14             | 000527-84-4 46 |
| 4       |            | 1H-1,5-Benzodiazepine, 2,3,4,5-t... | 148 C9H12N2            | 006516-89-8 43 |
| 5       |            | Benzene, 2-ethyl-1,3-dimethyl-      | 134 C10H14             | 002870-04-4 41 |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU040419\  
Data File : VU030631.D  
Acq On : 03 Apr 2019 16:47  
Operator : JC/SP  
Sample : K2148-11  
Misc : 4.46g/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
BF5F8

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM032319WMA.M  
Quant Title : VOC Analysis

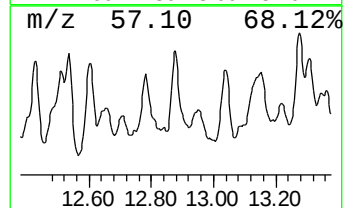
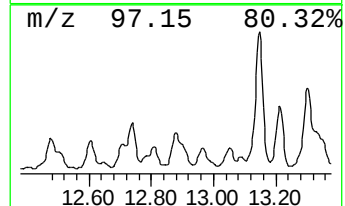
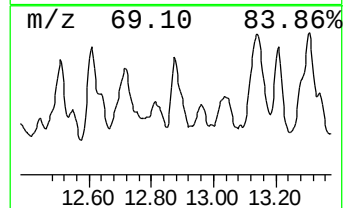
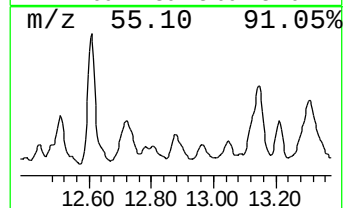
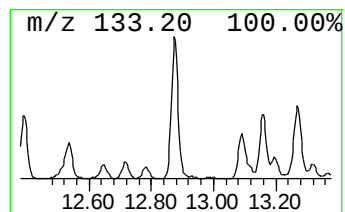
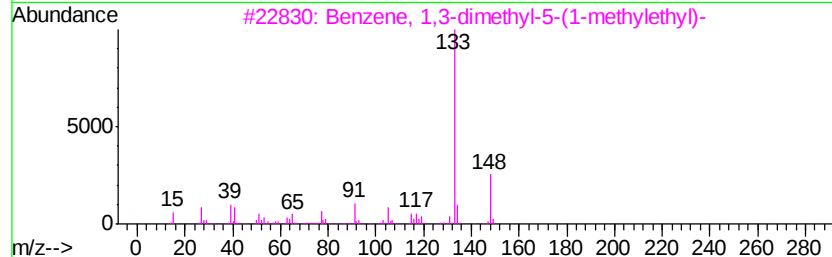
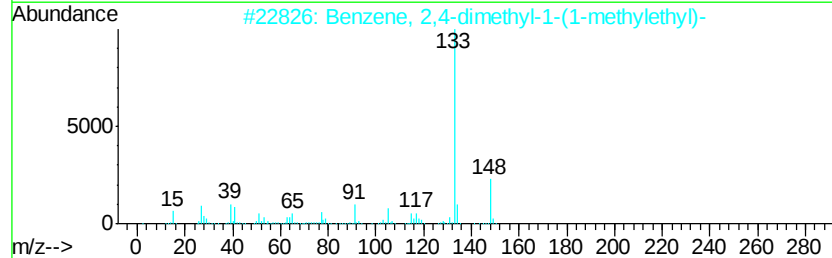
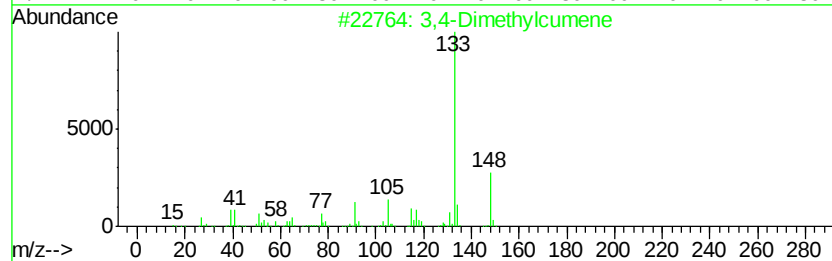
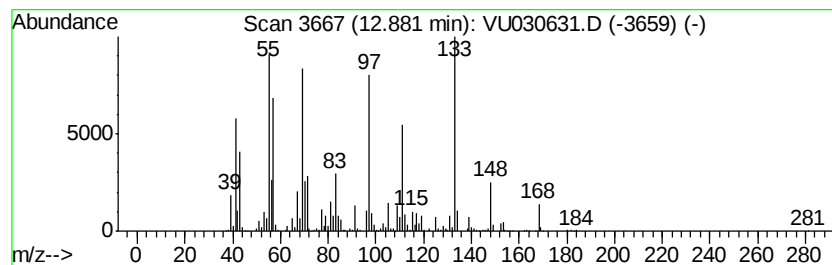
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 40 3,4-Dimethylcumene Concentration Rank 20

| R.T.  | EstConc    | Area    | Relative to ISTD       | R.T.  |
|-------|------------|---------|------------------------|-------|
| 12.88 | 46.09 ug/L | 1462810 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# | of | Tentative ID                          | MW  | MolForm | CAS#         | Qual |
|------|----|---------------------------------------|-----|---------|--------------|------|
| 1    | 5  | 3,4-Dimethylcumene                    | 148 | C11H16  | 1000370-34-1 | 78   |
| 2    |    | Benzene, 2,4-dimethyl-1-(1-methyl-... | 148 | C11H16  | 004706-89-2  | 70   |
| 3    |    | Benzene, 1,3-dimethyl-5-(1-methyl-... | 148 | C11H16  | 004706-90-5  | 51   |
| 4    |    | Benzene, 1,4-dimethyl-2-(1-methyl-... | 148 | C11H16  | 004132-72-3  | 38   |
| 5    |    | 4-tert-Butyltoluene                   | 148 | C11H16  | 000098-51-1  | 38   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU040419\  
Data File : VU030631.D  
Acq On : 03 Apr 2019 16:47  
Operator : JC/SP  
Sample : K2148-11  
Misc : 4.46µ/5mL/100µL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
BF5F8

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM032319WMA.M  
Quant Title : VOC Analysis

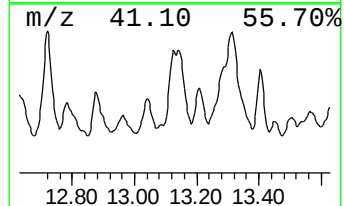
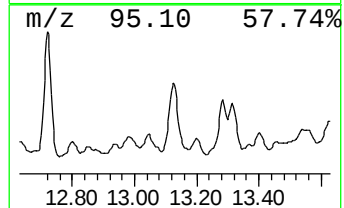
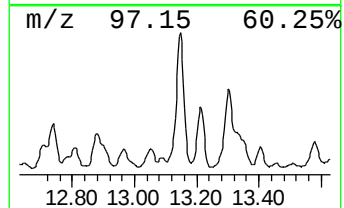
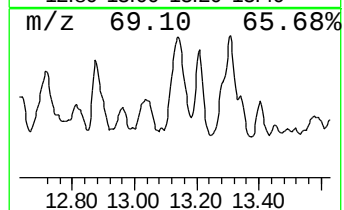
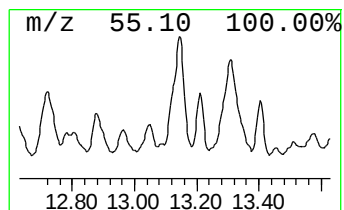
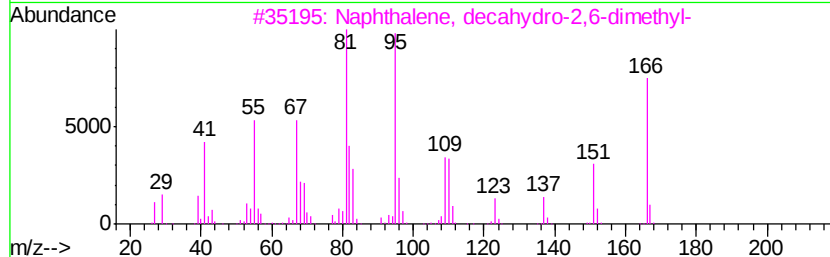
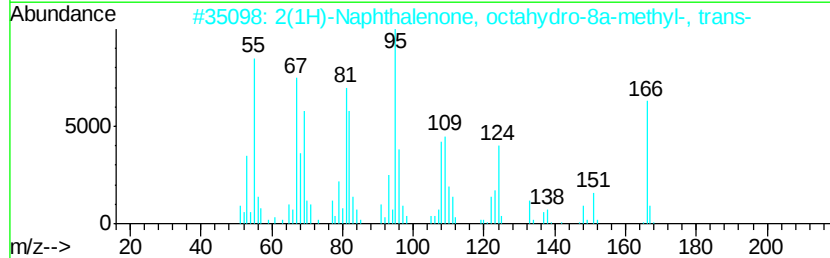
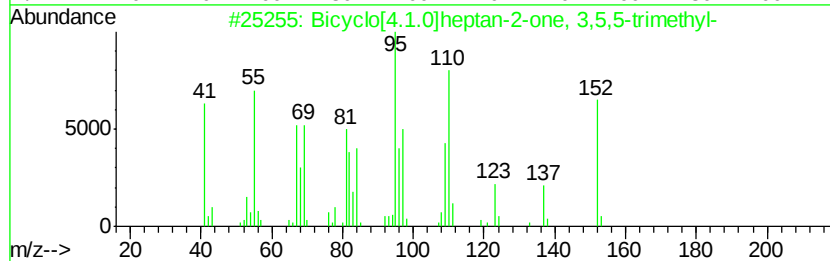
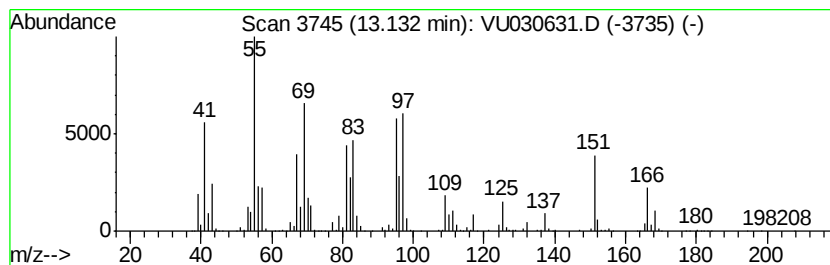
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 41 Bicyclo[4.1.0]heptan-2-one,... Concentration Rank 12

| R.T.  | EstConc    | Area    | Relative to ISTD       | R.T.  |
|-------|------------|---------|------------------------|-------|
| 13.13 | 63.45 ug/L | 2013860 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Bicyclo[4.1.0]heptan-2-one, 3,5,... | 152 | C10H16O | 029750-24-1 | 55   |
| 2    |    | 2(1H)-Naphthalenone, octahydro-8... | 166 | C11H18O | 001197-95-1 | 55   |
| 3    |    | Naphthalene, decahydro-2,6-dimet... | 166 | C12H22  | 001618-22-0 | 43   |
| 4    |    | Bicyclo[3.1.1]heptane, 2,6,6-tri... | 138 | C10H18  | 000473-55-2 | 43   |
| 5    |    | Bicyclo[3.1.1]heptane, 2,6,6-tri... | 138 | C10H18  | 004755-33-3 | 41   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU040419\  
Data File : VU030631.D  
Acq On : 03 Apr 2019 16:47  
Operator : JC/SP  
Sample : K2148-11  
Misc : 4.46µ/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
BF5F8

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM032319WMA.M  
Quant Title : VOC Analysis

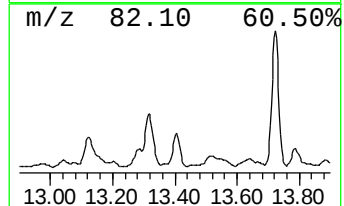
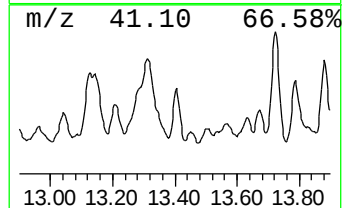
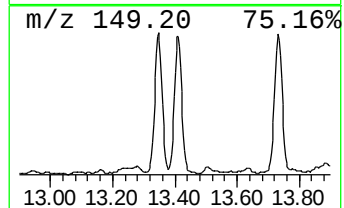
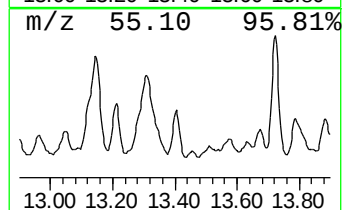
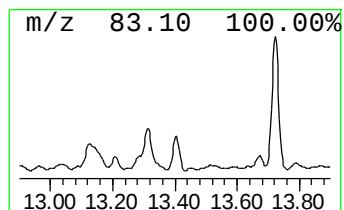
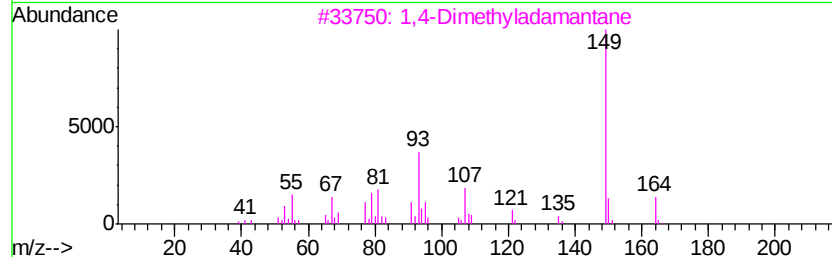
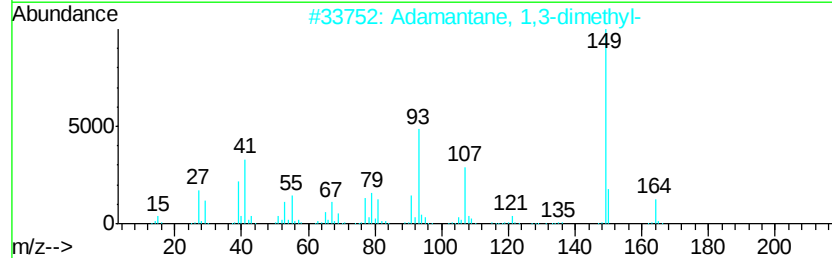
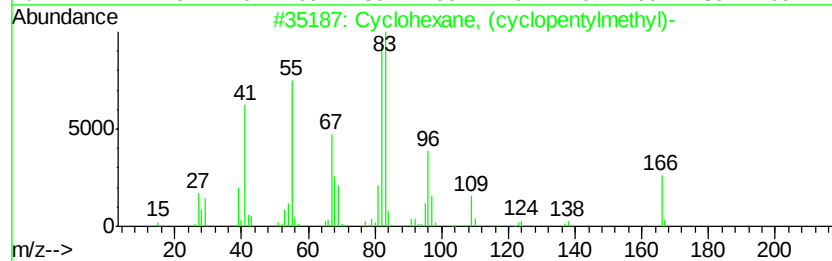
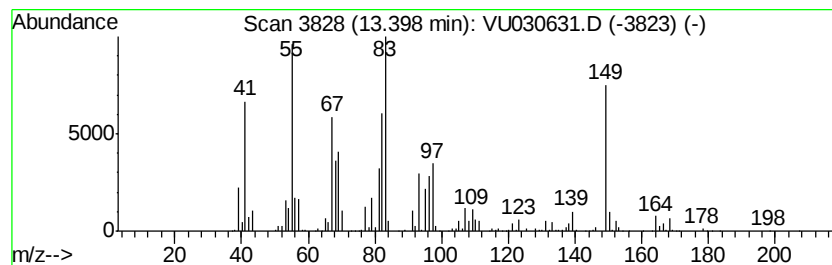
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 42 unknown-06 Concentration Rank 22

| R.T.  | EstConc    | Area    | Relative to ISTD       | R.T.  |
|-------|------------|---------|------------------------|-------|
| 13.40 | 43.43 ug/L | 1378260 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | Cyclohexane, (cyclopentylmethyl)-   | 166 | C12H22   | 004431-89-4 | 43   |
| 2    |    | Adamantane, 1,3-dimethyl-           | 164 | C12H20   | 000702-79-4 | 35   |
| 3    |    | 1,4-Dimethyladamantane              | 164 | C12H20   | 024145-89-9 | 35   |
| 4    |    | 1,16-Hexadecanediol                 | 258 | C16H34O2 | 007735-42-4 | 22   |
| 5    |    | Bicyclo[3.1.1]heptan-3-one, 2,6,... | 152 | C10H16O  | 018358-53-7 | 18   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU040419\  
Data File : VU030631.D  
Acq On : 03 Apr 2019 16:47  
Operator : JC/SP  
Sample : K2148-11  
Misc : 4.46g/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 7 Sample Multiplier: 1

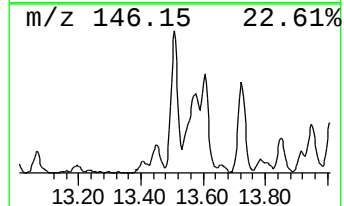
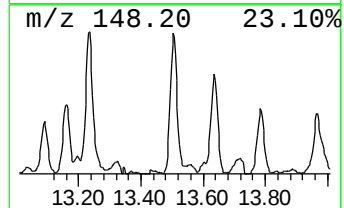
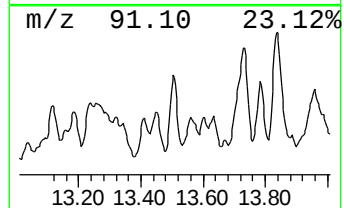
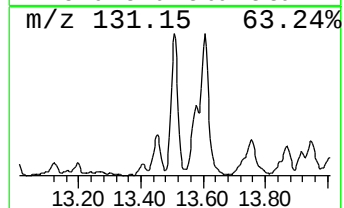
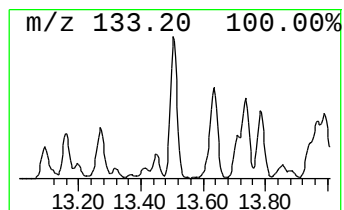
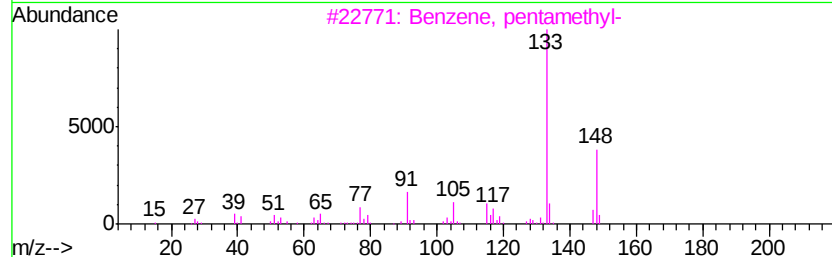
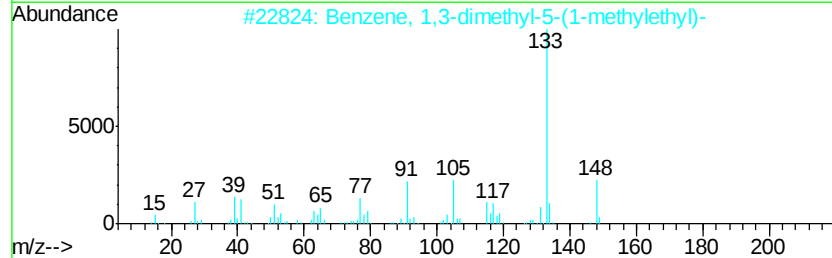
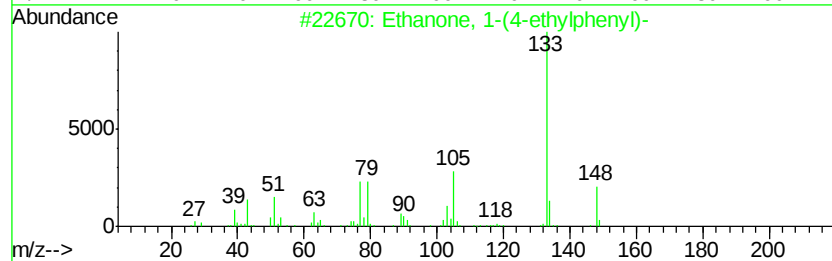
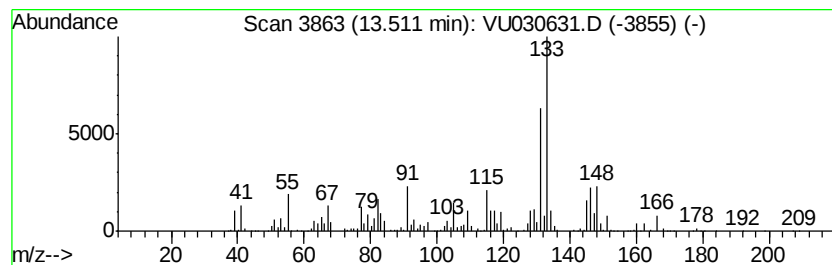
Instrument :  
MSVOA\_U  
ClientSampleId :  
BF5F8

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM032319WMA.M  
Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 43 Ethanone, 1-(4-ethylphenyl)- Concentration Rank 26

| R.T.    | EstConc                             | Area         | Relative to ISTD       | R.T.      |
|---------|-------------------------------------|--------------|------------------------|-----------|
| 13.51   | 31.35 ug/L                          | 995087       | 1,4-Dichlorobenzene-d4 | 11.48     |
| Hit# of | 5                                   | Tentative ID | MW MolForm             | CAS# Qual |
| 1       | Ethanone, 1-(4-ethylphenyl)-        | 148 C10H12O  | 000937-30-4            | 50        |
| 2       | Benzene, 1,3-dimethyl-5-(1-methy... | 148 C11H16   | 004706-90-5            | 49        |
| 3       | Benzene, pentamethyl-               | 148 C11H16   | 000700-12-9            | 49        |
| 4       | Benzene, 1,3-dimethyl-5-(1-methy... | 148 C11H16   | 004706-90-5            | 46        |
| 5       | Benzene, 2,4-dimethyl-1-(1-methy... | 148 C11H16   | 004706-89-2            | 43        |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU040419\  
Data File : VU030631.D  
Acq On : 03 Apr 2019 16:47  
Operator : JC/SP  
Sample : K2148-11  
Misc : 4.46µ/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
BF5F8

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM032319WMA.M  
Quant Title : VOC Analysis

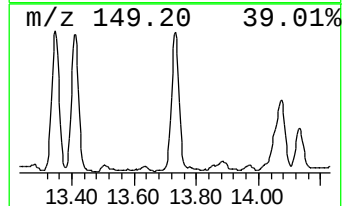
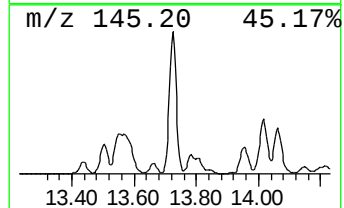
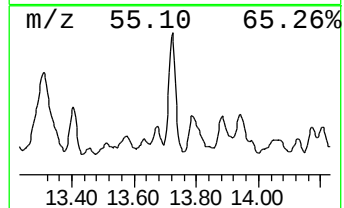
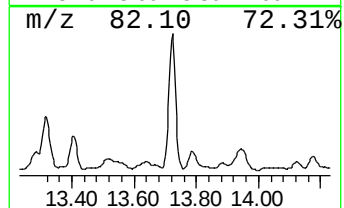
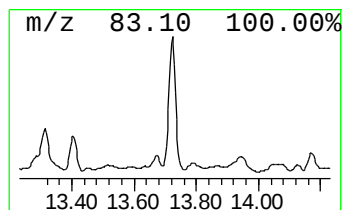
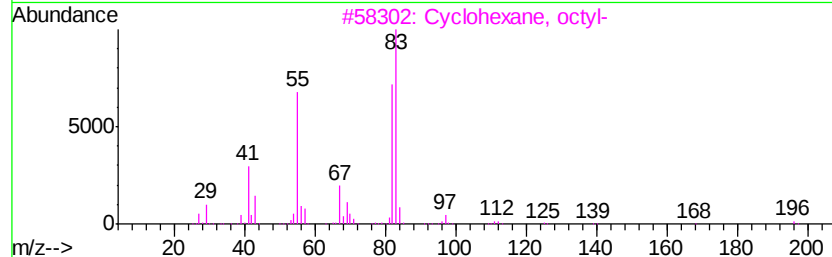
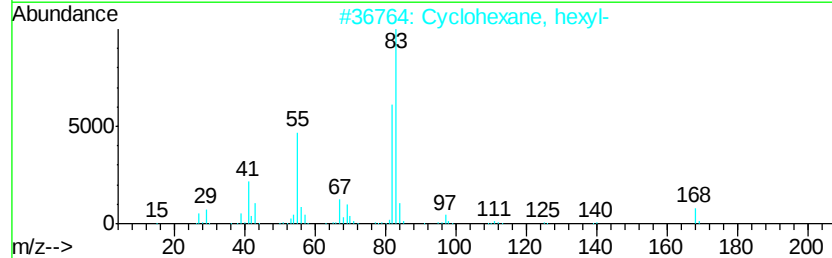
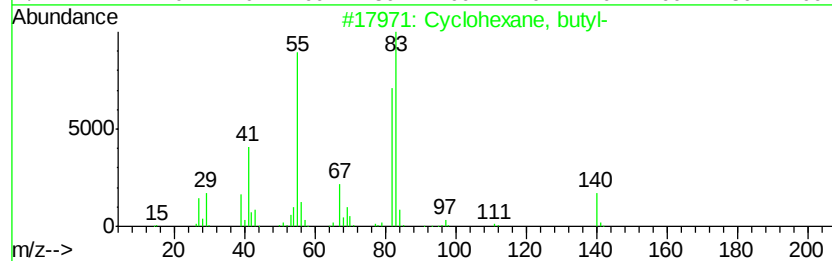
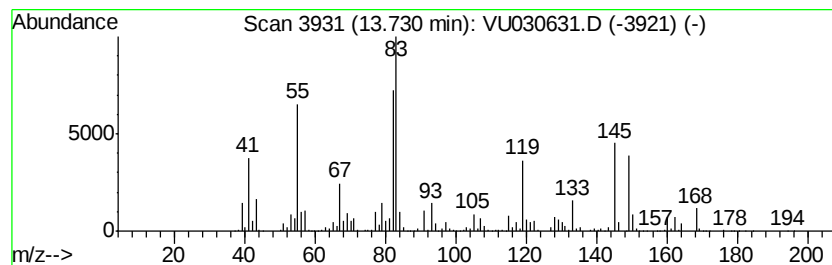
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 44 (DEL) Alkane: Cyclic13.73 Concentration Rank 3

| R.T.  | EstConc     | Area    | Relative to ISTD       | R.T.  |
|-------|-------------|---------|------------------------|-------|
| 13.73 | 132.98 ug/L | 4220580 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# | of | Tentative ID        | MW  | MolForm | CAS#        | Qual |
|------|----|---------------------|-----|---------|-------------|------|
| 1    | 5  | Cyclohexane, butyl- | 140 | C10H20  | 001678-93-9 | 55   |
| 2    |    | Cyclohexane, hexyl- | 168 | C12H24  | 004292-75-5 | 55   |
| 3    |    | Cyclohexane, octyl- | 196 | C14H28  | 001795-15-9 | 46   |
| 4    |    | Cyclohexane, hexyl- | 168 | C12H24  | 004292-75-5 | 46   |
| 5    |    | Cyclohexane, decyl- | 224 | C16H32  | 001795-16-0 | 43   |





Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU040419\  
Data File : VU030631.D  
Acq On : 03 Apr 2019 16:47  
Operator : JC/SP  
Sample : K2148-11  
Misc : 4.46uL/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
BF5F8

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM032319WMA.M  
Quant Title : VOC Analysis

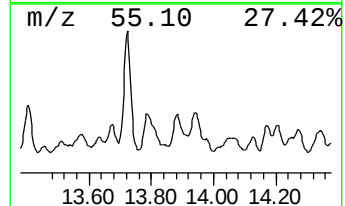
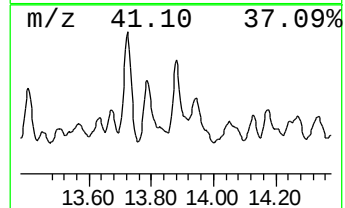
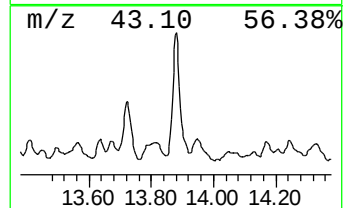
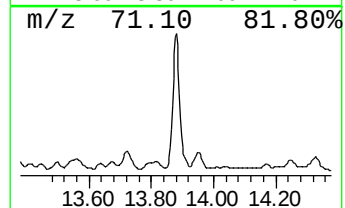
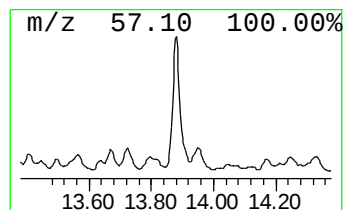
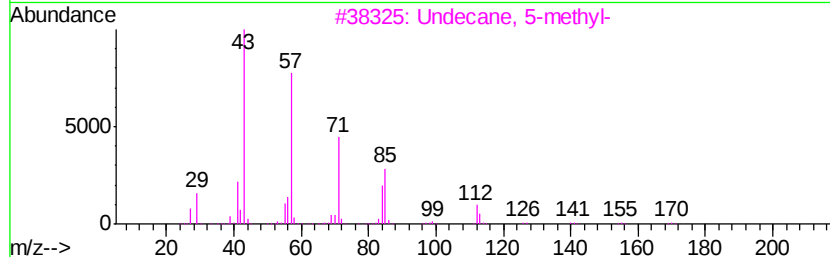
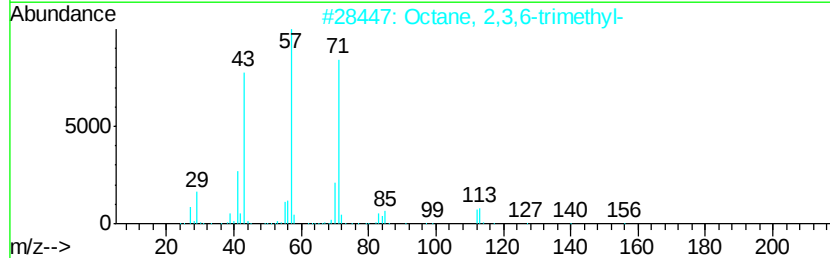
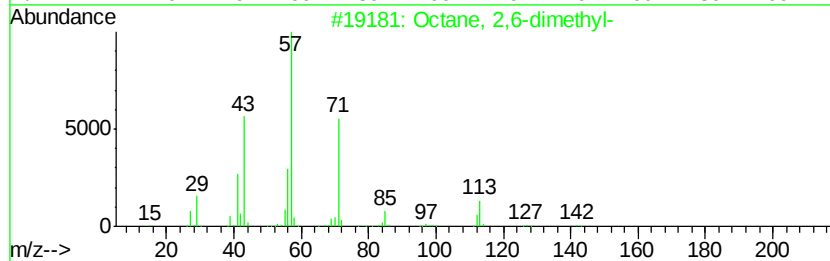
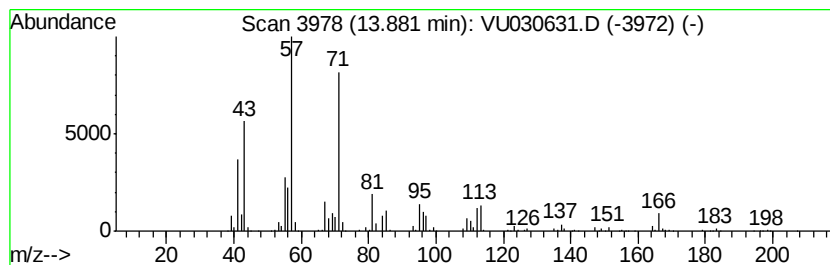
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 46 (DEL) Alkane: Straight-Chai... Concentration Rank 18

| R.T.  | EstConc    | Area    | Relative to ISTD       | R.T.  |
|-------|------------|---------|------------------------|-------|
| 13.88 | 48.51 ug/L | 1539460 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|-----------|--------------|------|
| 1    |    |   | Octane, 2,6-dimethyl-               | 142 | C10H22    | 002051-30-1  | 64   |
| 2    |    |   | Octane, 2,3,6-trimethyl-            | 156 | C11H24    | 062016-33-5  | 59   |
| 3    |    |   | Undecane, 5-methyl-                 | 170 | C12H26    | 001632-70-8  | 59   |
| 4    |    |   | Sulfurous acid, 2-ethylhexyl iso... | 278 | C14H30O3S | 1000309-19-0 | 53   |
| 5    |    |   | Nonane, 2,6-dimethyl-               | 156 | C11H24    | 017302-28-2  | 53   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU040419\  
Data File : VU030631.D  
Acq On : 03 Apr 2019 16:47  
Operator : JC/SP  
Sample : K2148-11  
Misc : 4.46µL/5mL/100µL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
BF5F8

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM032319WMA.M  
Quant Title : VOC Analysis

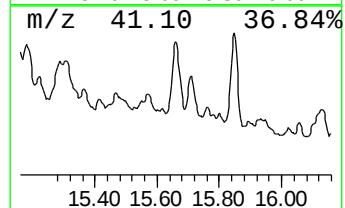
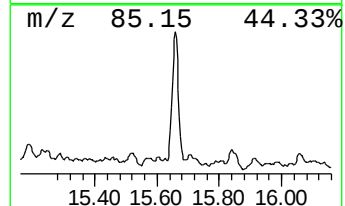
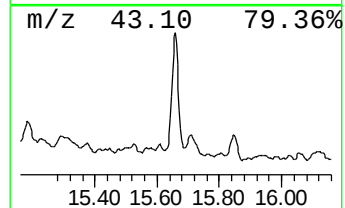
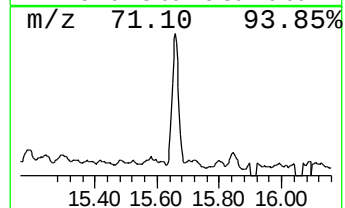
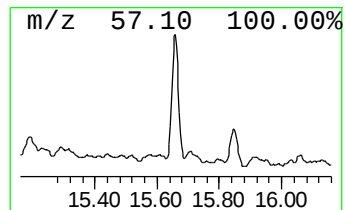
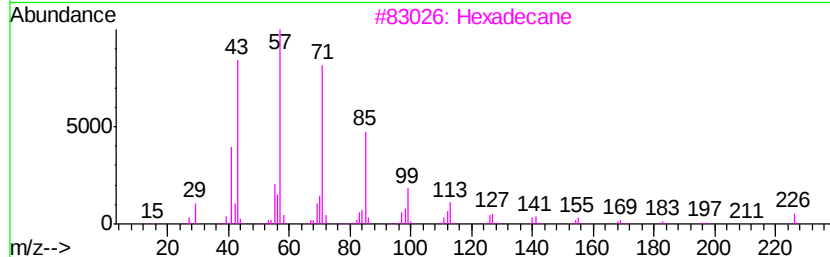
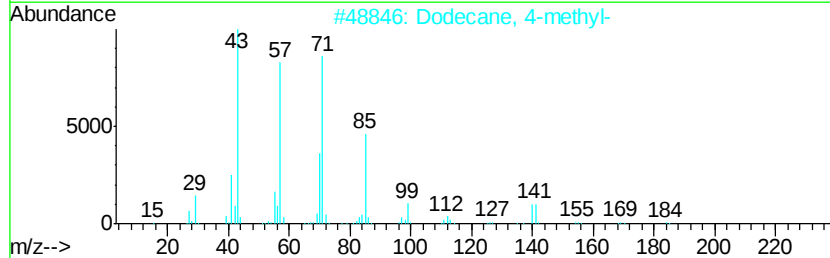
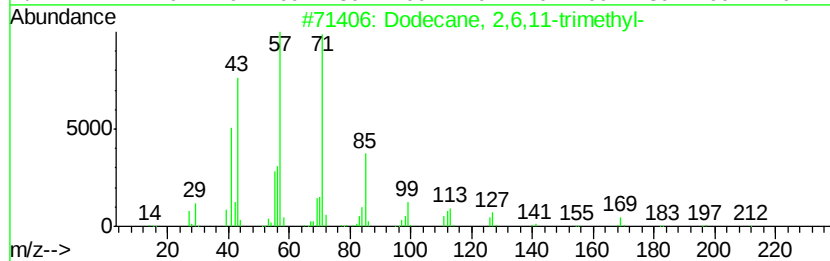
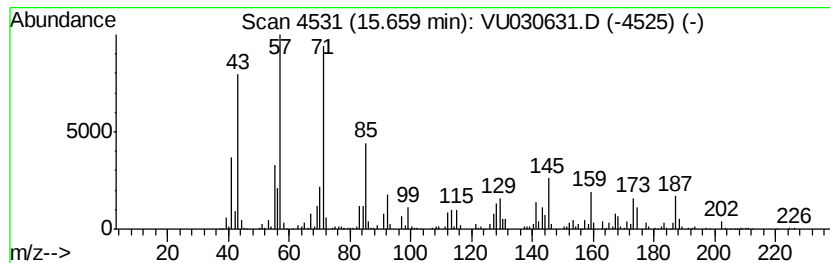
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 47 (DEL) Alkane: Straight-Chai... Concentration Rank 28

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 15.66 | 26.88 ug/L | 853097 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# | of | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------------|-----|---------|-------------|------|
| 1    | 5  | Dodecane, 2,6,11-trimethyl- | 212 | C15H32  | 031295-56-4 | 70   |
| 2    |    | Dodecane, 4-methyl-         | 184 | C13H28  | 006117-97-1 | 60   |
| 3    |    | Hexadecane                  | 226 | C16H34  | 000544-76-3 | 55   |
| 4    |    | Dodecane, 4-methyl-         | 184 | C13H28  | 006117-97-1 | 53   |
| 5    |    | Decane, 3,7-dimethyl-       | 170 | C12H26  | 017312-54-8 | 49   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU040419\  
Data File : VU030631.D  
Acq On : 03 Apr 2019 16:47  
Operator : JC/SP  
Sample : K2148-11  
Misc : 4.46g/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 7 Sample Multiplier: 1

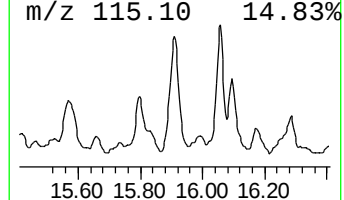
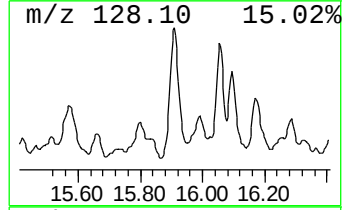
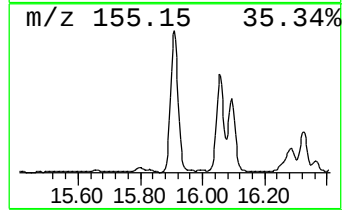
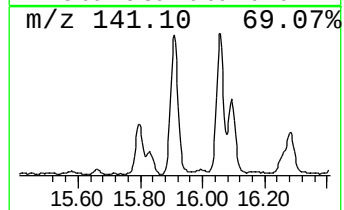
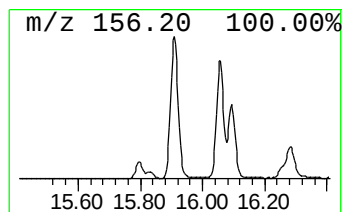
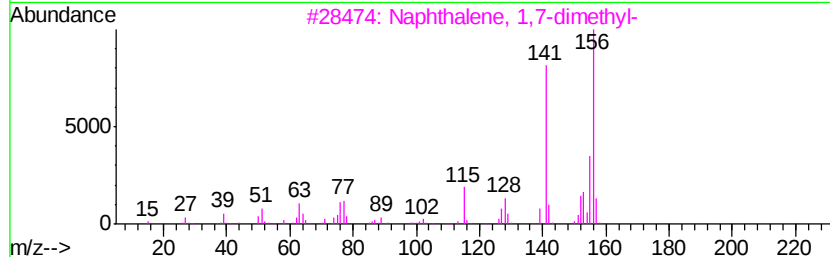
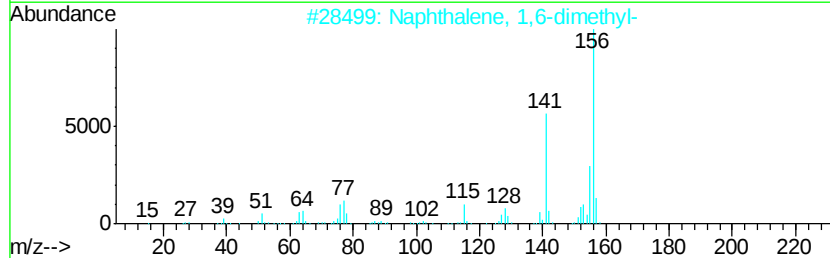
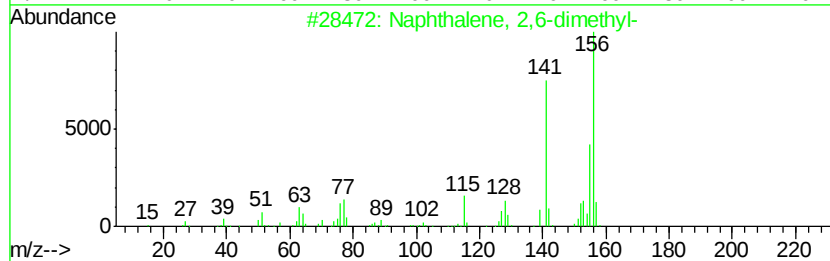
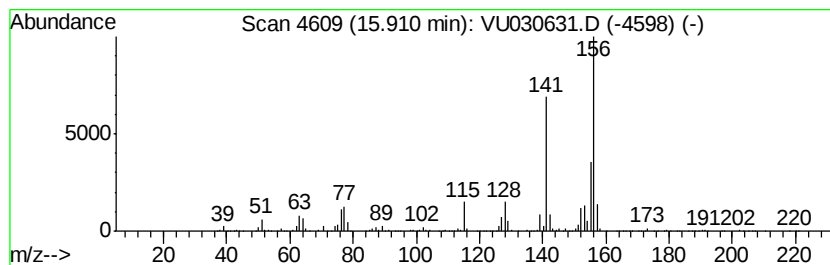
Instrument :  
MSVOA\_U  
ClientSampleId :  
BF5F8

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM032319WMA.M  
Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 48 Naphthalene, 2,6-dimethyl- Concentration Rank 5

| R.T.      | EstConc                    | Area    | Relative to ISTD       | R.T.        |      |
|-----------|----------------------------|---------|------------------------|-------------|------|
| 15.91     | 90.67 ug/L                 | 2877600 | 1,4-Dichlorobenzene-d4 | 11.48       |      |
| Hit# of 5 | Tentative ID               | MW      | MolForm                | CAS#        | Qual |
| 1         | Naphthalene, 2,6-dimethyl- | 156     | C12H12                 | 000581-42-0 | 98   |
| 2         | Naphthalene, 1,6-dimethyl- | 156     | C12H12                 | 000575-43-9 | 98   |
| 3         | Naphthalene, 1,7-dimethyl- | 156     | C12H12                 | 000575-37-1 | 98   |
| 4         | Naphthalene, 1,5-dimethyl- | 156     | C12H12                 | 000571-61-9 | 98   |
| 5         | Naphthalene, 2,6-dimethyl- | 156     | C12H12                 | 000581-42-0 | 98   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU040419\  
Data File : VU030631.D  
Acq On : 03 Apr 2019 16:47  
Operator : JC/SP  
Sample : K2148-11  
Misc : 4.46µ/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
BF5F8

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM032319WMA.M  
Quant Title : VOC Analysis

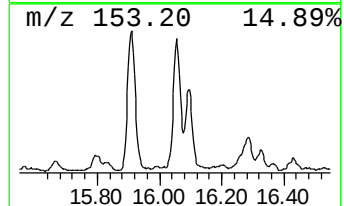
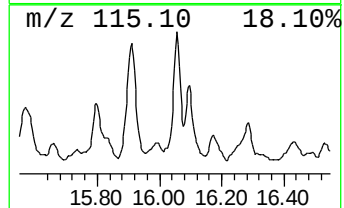
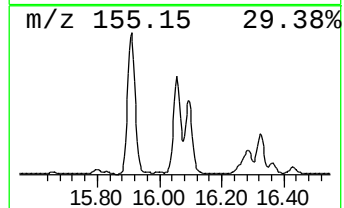
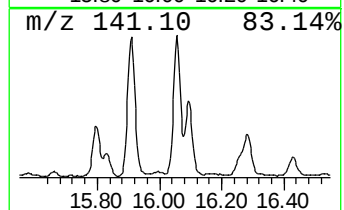
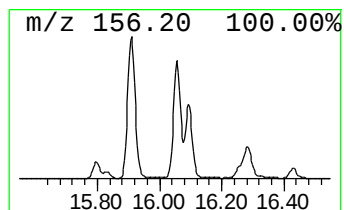
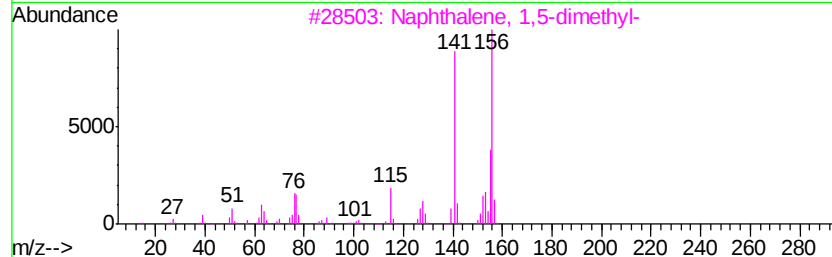
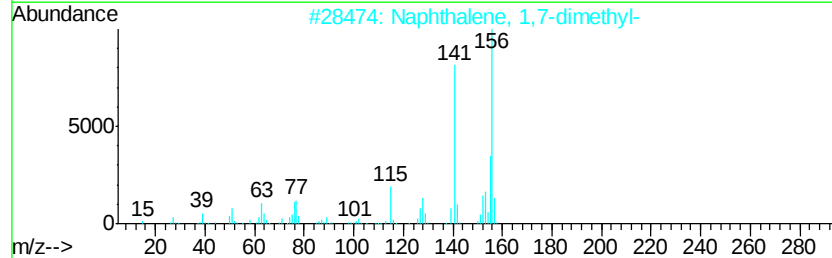
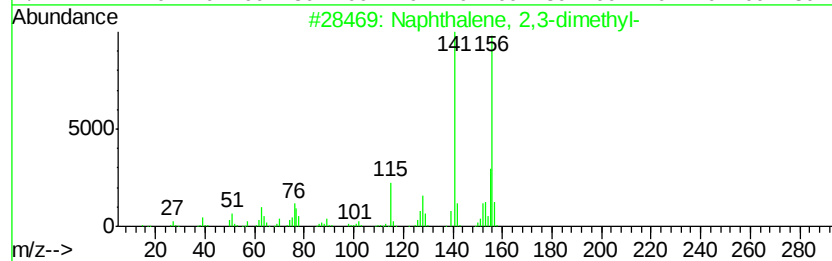
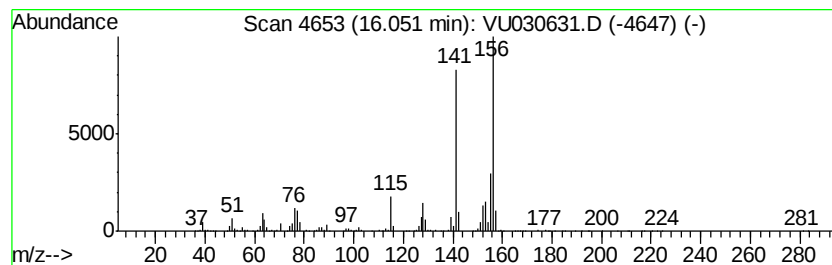
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 49 Naphthalene, 2,3-dimethyl- Concentration Rank 14

| R.T.  | EstConc    | Area    | Relative to ISTD       | R.T.  |
|-------|------------|---------|------------------------|-------|
| 16.05 | 54.93 ug/L | 1743220 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# | of | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------|-----|---------|-------------|------|
| 1    | 5  | Naphthalene, 2,3-dimethyl- | 156 | C12H12  | 000581-40-8 | 98   |
| 2    |    | Naphthalene, 1,7-dimethyl- | 156 | C12H12  | 000575-37-1 | 98   |
| 3    |    | Naphthalene, 1,5-dimethyl- | 156 | C12H12  | 000571-61-9 | 98   |
| 4    |    | Naphthalene, 1,6-dimethyl- | 156 | C12H12  | 000575-43-9 | 98   |
| 5    |    | Naphthalene, 1,7-dimethyl- | 156 | C12H12  | 000575-37-1 | 97   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU040419\  
Data File : VU030631.D  
Acq On : 03 Apr 2019 16:47  
Operator : JC/SP  
Sample : K2148-11  
Misc : 4.46g/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
BF5F8

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM032319WMA.M  
Quant Title : VOC Analysis

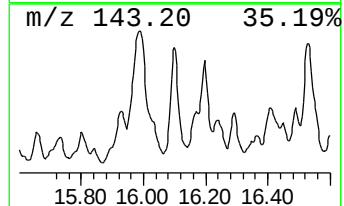
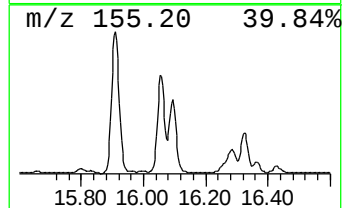
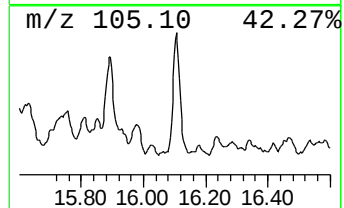
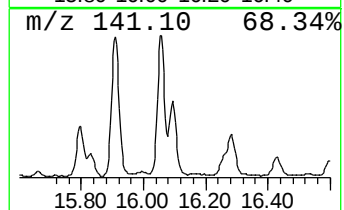
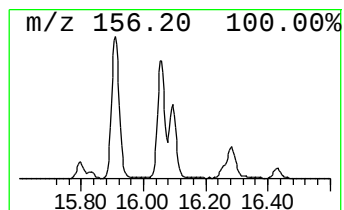
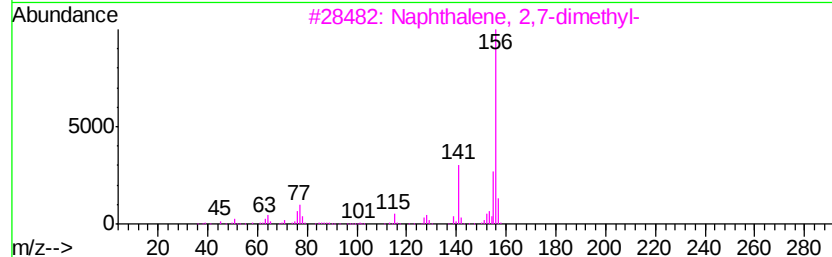
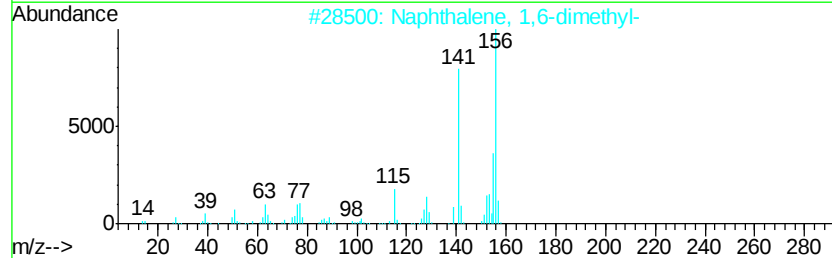
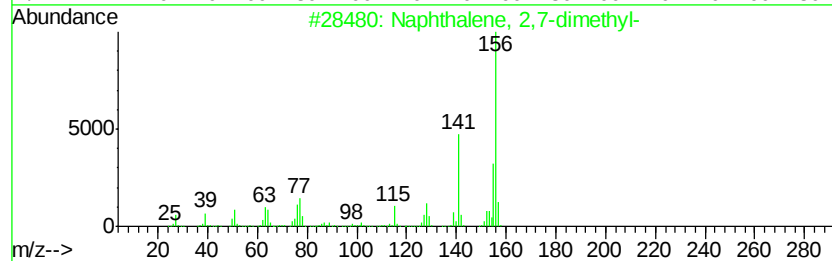
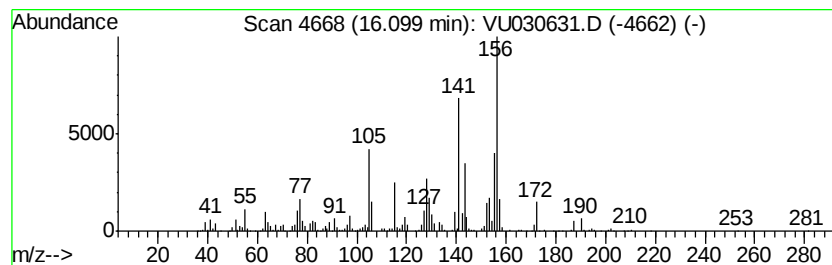
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 50 Naphthalene, 2,7-dimethyl- Concentration Rank 17

| R.T.  | EstConc    | Area    | Relative to ISTD       | R.T.  |
|-------|------------|---------|------------------------|-------|
| 16.10 | 48.84 ug/L | 1550190 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# | of | 5 | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|---|----------------------------|-----|---------|-------------|------|
| 1    |    |   | Naphthalene, 2,7-dimethyl- | 156 | C12H12  | 000582-16-1 | 97   |
| 2    |    |   | Naphthalene, 1,6-dimethyl- | 156 | C12H12  | 000575-43-9 | 96   |
| 3    |    |   | Naphthalene, 2,7-dimethyl- | 156 | C12H12  | 000582-16-1 | 95   |
| 4    |    |   | Naphthalene, 2,7-dimethyl- | 156 | C12H12  | 000582-16-1 | 95   |
| 5    |    |   | Naphthalene, 1,7-dimethyl- | 156 | C12H12  | 000575-37-1 | 95   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU040419\  
Data File : VU030631.D  
Acq On : 03 Apr 2019 16:47  
Operator : JC/SP  
Sample : K2148-11  
Misc : 4.46µ/5mL/100µL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 7 Sample Multiplier: 1

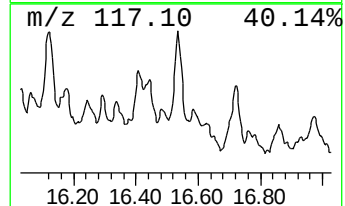
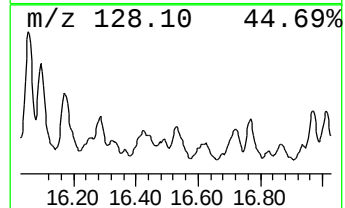
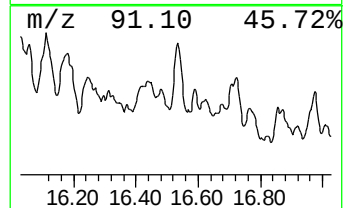
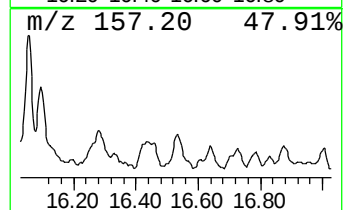
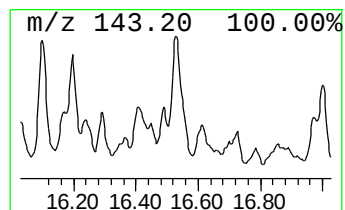
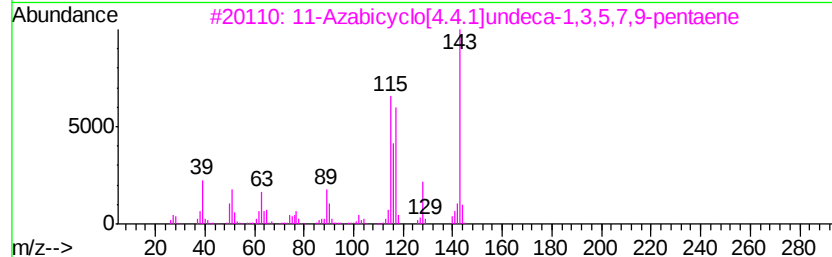
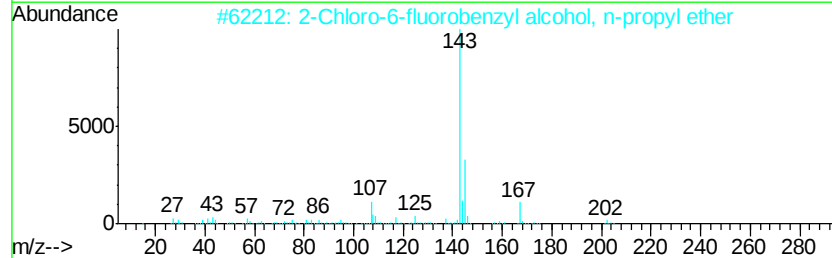
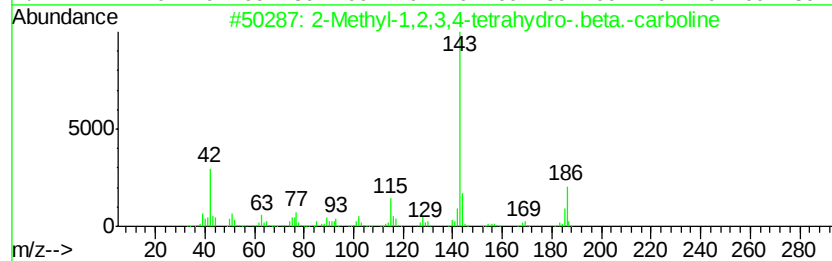
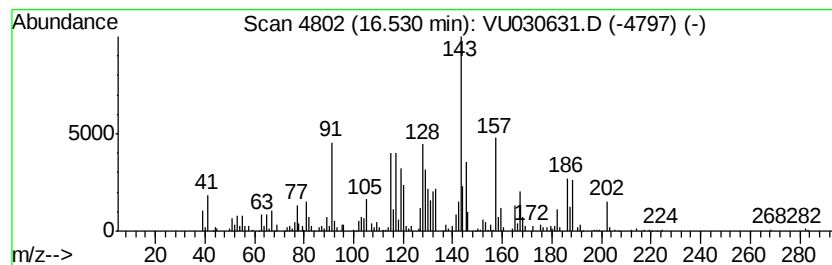
Instrument :  
MSVOA\_U  
ClientSampleId :  
BF5F8

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM032319WMA.M  
Quant Title : VOC Analysis

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

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Peak Number 51 unknown-07 Concentration Rank 46

| R.T.      | EstConc                             | Area   | Relative to ISTD       | R.T.         |      |
|-----------|-------------------------------------|--------|------------------------|--------------|------|
| 16.53     | 9.54 ug/L                           | 302893 | 1,4-Dichlorobenzene-d4 | 11.48        |      |
| Hit# of 5 | Tentative ID                        | MW     | MolForm                | CAS#         | Qual |
| 1         | 2-Methyl-1,2,3,4-tetrahydro-.bet... | 186    | C12H14N2               | 013100-00-0  | 30   |
| 2         | 2-Chloro-6-fluorobenzyl alcohol,... | 202    | C10H12ClFO             | 1000378-14-5 | 30   |
| 3         | 11-Azabicyclo[4.4.1]undeca-1,3,5... | 143    | C10H9N                 | 004753-55-3  | 27   |
| 4         | 1H-Indene, 3-ethyl-1-(1-methylet... | 186    | C14H18                 | 111400-85-2  | 25   |
| 5         | 3-Methyl-1,2,3,4-tetrahydro-.gam... | 186    | C12H14N2               | 005094-12-2  | 22   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU040419\  
Data File : VU030631.D  
Acq On : 03 Apr 2019 16:47  
Operator : JC/SP  
Sample : K2148-11  
Misc : 4.46µ/5mL/100µL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
BF5F8

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM032319WMA.M  
Quant Title : VOC Analysis

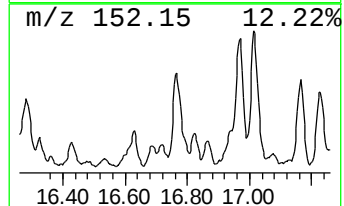
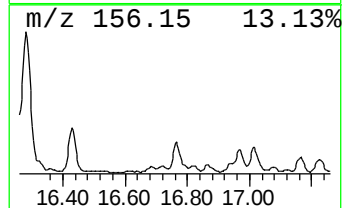
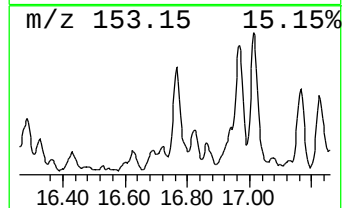
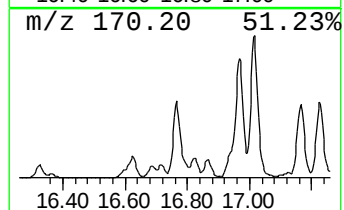
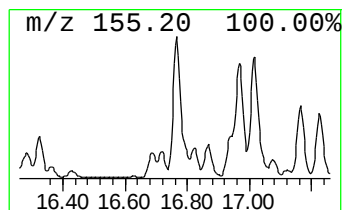
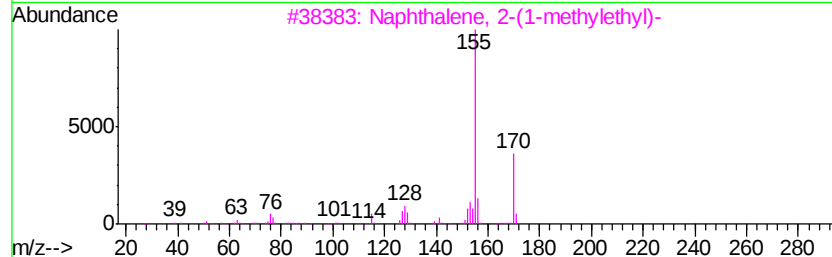
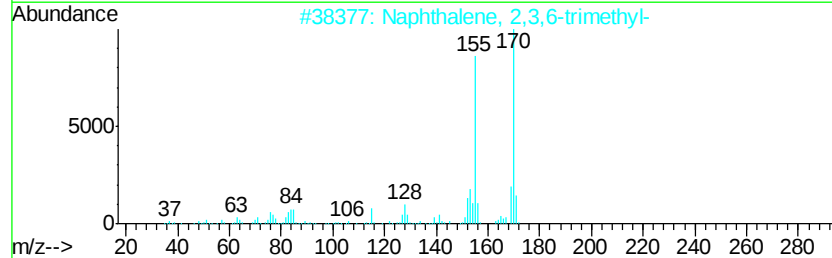
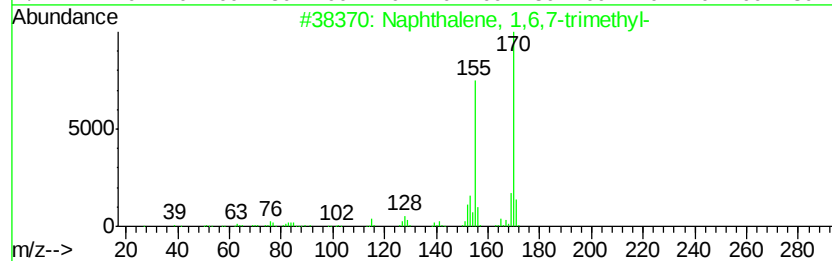
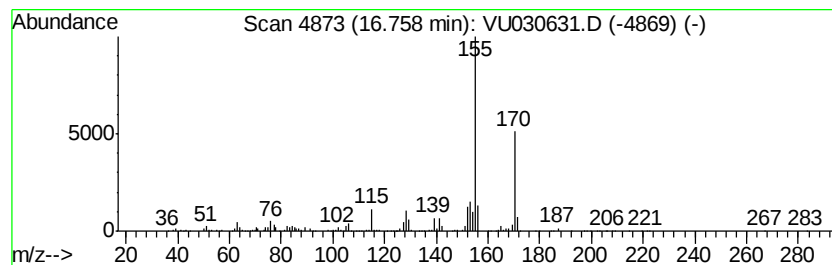
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 52 Naphthalene, 1,6,7-trimethyl- Concentration Rank 31

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 16.76 | 23.52 ug/L | 746493 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# | of | Tentative ID                    | MW  | MolForm | CAS#        | Qual |
|------|----|---------------------------------|-----|---------|-------------|------|
| 1    | 5  | Naphthalene, 1,6,7-trimethyl-   | 170 | C13H14  | 002245-38-7 | 94   |
| 2    |    | Naphthalene, 2,3,6-trimethyl-   | 170 | C13H14  | 000829-26-5 | 94   |
| 3    |    | Naphthalene, 2-(1-methylethyl)- | 170 | C13H14  | 002027-17-0 | 94   |
| 4    |    | Naphthalene, 2,3,6-trimethyl-   | 170 | C13H14  | 000829-26-5 | 94   |
| 5    |    | Naphthalene, 1,4,6-trimethyl-   | 170 | C13H14  | 002131-42-2 | 94   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU040419\  
Data File : VU030631.D  
Acq On : 03 Apr 2019 16:47  
Operator : JC/SP  
Sample : K2148-11  
Misc : 4.46µ/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
BF5F8

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM032319WMA.M  
Quant Title : VOC Analysis

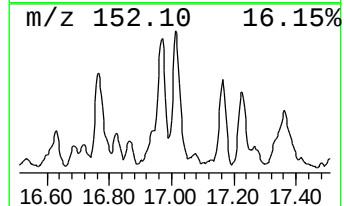
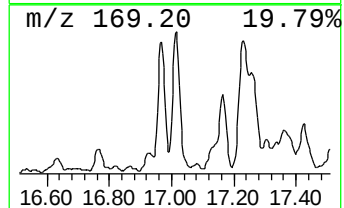
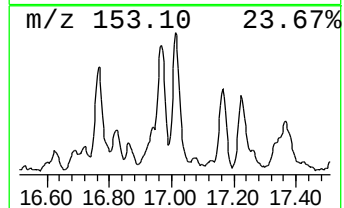
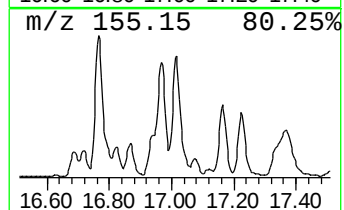
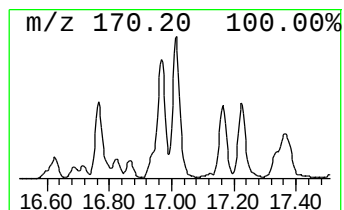
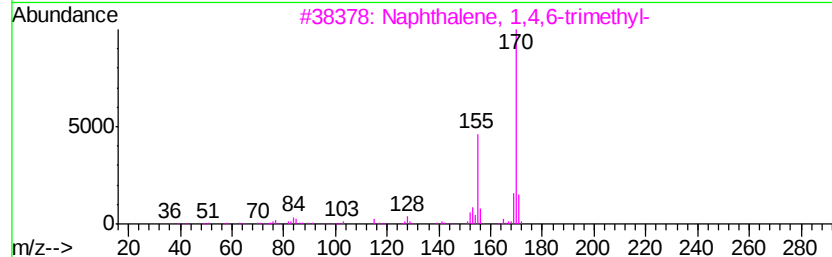
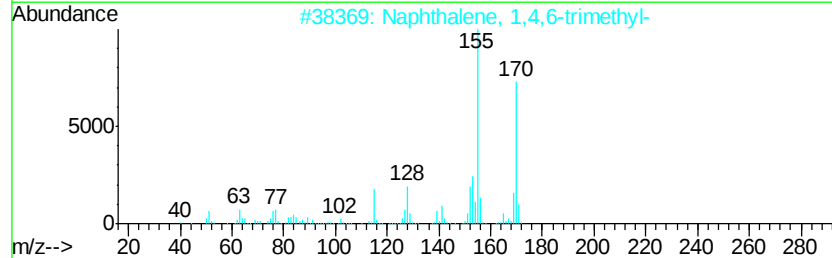
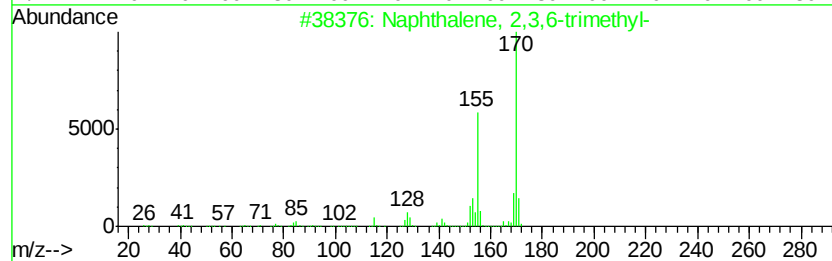
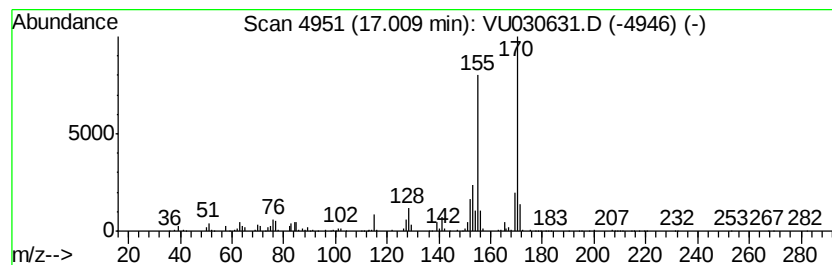
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 54 Naphthalene, 2,3,6-trimethyl- Concentration Rank 30

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 17.01 | 24.92 ug/L | 790839 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# | of | Tentative ID                  | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------|-----|---------|-------------|------|
| 1    | 5  | Naphthalene, 2,3,6-trimethyl- | 170 | C13H14  | 000829-26-5 | 96   |
| 2    |    | Naphthalene, 1,4,6-trimethyl- | 170 | C13H14  | 002131-42-2 | 96   |
| 3    |    | Naphthalene, 1,4,6-trimethyl- | 170 | C13H14  | 002131-42-2 | 95   |
| 4    |    | Naphthalene, 2,3,6-trimethyl- | 170 | C13H14  | 000829-26-5 | 95   |
| 5    |    | Naphthalene, 2,3,6-trimethyl- | 170 | C13H14  | 000829-26-5 | 94   |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_U\DATA\VU040419\  
 Data File : VU030631.D  
 Acq On : 03 Apr 2019 16:47  
 Operator : JC/SP  
 Sample : K2148-11  
 Misc : 4.46g/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BF5F8

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM032319WMA.M  
 Quant Title : VOC Analysis

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

|                      |       |         |       |          | --Internal Standard-- |       |         |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
| TIC Top Hit name     | RT    | EstConc | Units | Response | #                     | RT    | Resp    | Conc |
| (DEL) Alkane: Cyc... | 7.91  | 3.4     | ug/L  | 106797   | 2                     | 9.09  | 1594130 | 50.0 |
| (DEL) Alkane: Str... | 8.45  | 4.1     | ug/L  | 131532   | 2                     | 9.09  | 1594130 | 50.0 |
| (DEL) Alkane: Cyc... | 8.54  | 4.9     | ug/L  | 156247   | 2                     | 9.09  | 1594130 | 50.0 |
| (DEL) Alkane: Cyc... | 8.60  | 10.0    | ug/L  | 318472   | 2                     | 9.09  | 1594130 | 50.0 |
| (DEL) Alkane: Cyc... | 8.65  | 4.0     | ug/L  | 126155   | 2                     | 9.09  | 1594130 | 50.0 |
| (DEL) Alkane: Cyc... | 8.84  | 13.0    | ug/L  | 415410   | 2                     | 9.09  | 1594130 | 50.0 |
| (DEL) Alkane: Cyc... | 9.24  | 6.2     | ug/L  | 196647   | 2                     | 9.09  | 1594130 | 50.0 |
| (DEL) Alkane: Cyc... | 9.35  | 13.4    | ug/L  | 427646   | 2                     | 9.09  | 1594130 | 50.0 |
| (DEL) Alkane: Cyc... | 9.40  | 18.7    | ug/L  | 595975   | 2                     | 9.09  | 1594130 | 50.0 |
| (DEL) Alkane: Cyc... | 9.44  | 19.3    | ug/L  | 615060   | 2                     | 9.09  | 1594130 | 50.0 |
| (DEL) Alkane: Cyc... | 9.56  | 8.9     | ug/L  | 282449   | 2                     | 9.09  | 1594130 | 50.0 |
| (DEL) Alkane: Str... | 9.65  | 4.1     | ug/L  | 130480   | 2                     | 9.09  | 1594130 | 50.0 |
| (DEL) Alkane: Cyc... | 9.71  | 46.2    | ug/L  | 1471540  | 2                     | 9.09  | 1594130 | 50.0 |
| (DEL) Alkane: Cyc... | 9.81  | 8.5     | ug/L  | 269711   | 2                     | 9.09  | 1594130 | 50.0 |
| unknown-01           | 9.86  | 6.9     | ug/L  | 218773   | 2                     | 9.09  | 1594130 | 50.0 |
| (DEL) Alkane: Str... | 9.95  | 78.9    | ug/L  | 2516240  | 2                     | 9.09  | 1594130 | 50.0 |
| (DEL) Alkane: Cyc... | 10.04 | 83.0    | ug/L  | 2646250  | 2                     | 9.09  | 1594130 | 50.0 |
| (DEL) Alkane: Cyc... | 10.15 | 15.1    | ug/L  | 480732   | 2                     | 9.09  | 1594130 | 50.0 |
| unknown-02           | 10.22 | 22.2    | ug/L  | 707240   | 2                     | 9.09  | 1594130 | 50.0 |
| 3-Octadecyne         | 10.37 | 16.3    | ug/L  | 517798   | 3                     | 11.48 | 1586870 | 50.0 |
| (DEL) Alkane: Cyc... | 10.49 | 45.4    | ug/L  | 1442090  | 3                     | 11.48 | 1586870 | 50.0 |
| (DEL) Alkane: Cyc... | 10.64 | 34.0    | ug/L  | 1079890  | 3                     | 11.48 | 1586870 | 50.0 |
| unknown-03           | 10.69 | 34.7    | ug/L  | 1101530  | 3                     | 11.48 | 1586870 | 50.0 |
| (DEL) Alkane: Cyc... | 10.75 | 55.6    | ug/L  | 1764850  | 3                     | 11.48 | 1586870 | 50.0 |
| unknown-04           | 10.81 | 43.0    | ug/L  | 1363530  | 3                     | 11.48 | 1586870 | 50.0 |
| Oxalic acid, cycl... | 10.97 | 15.5    | ug/L  | 492883   | 3                     | 11.48 | 1586870 | 50.0 |
| (DEL) Alkane: Str... | 11.11 | 6.6     | ug/L  | 209445   | 3                     | 11.48 | 1586870 | 50.0 |
| (DEL) Alkane: Str... | 11.27 | 49.4    | ug/L  | 1568070  | 3                     | 11.48 | 1586870 | 50.0 |
| (DEL) Alkane: Cyc... | 11.39 | 64.2    | ug/L  | 2037480  | 3                     | 11.48 | 1586870 | 50.0 |
| (DEL) Alkane: Cyc... | 11.66 | 22.9    | ug/L  | 726204   | 3                     | 11.48 | 1586870 | 50.0 |
| Benzene, 1,3-diet... | 11.78 | 29.5    | ug/L  | 936278   | 3                     | 11.48 | 1586870 | 50.0 |
| 1-Ethyl-3-methylc... | 12.01 | 26.1    | ug/L  | 829903   | 3                     | 11.48 | 1586870 | 50.0 |
| Oxalic acid, buty... | 12.06 | 78.8    | ug/L  | 2499880  | 3                     | 11.48 | 1586870 | 50.0 |
| (DEL) Alkane: Cyc... | 12.18 | 70.5    | ug/L  | 2238110  | 3                     | 11.48 | 1586870 | 50.0 |
| Naphthalene, deca... | 12.51 | 171.6   | ug/L  | 5447030  | 3                     | 11.48 | 1586870 | 50.0 |
| (DEL) Alkane: Cyc... | 12.61 | 142.7   | ug/L  | 4528260  | 3                     | 11.48 | 1586870 | 50.0 |
| unknown-05           | 12.78 | 53.4    | ug/L  | 1694810  | 3                     | 11.48 | 1586870 | 50.0 |
| 3,4-Dimethylcumene   | 12.88 | 46.1    | ug/L  | 1462810  | 3                     | 11.48 | 1586870 | 50.0 |
| Bicyclo[4.1.0]hep... | 13.13 | 63.5    | ug/L  | 2013860  | 3                     | 11.48 | 1586870 | 50.0 |
| unknown-06           | 13.40 | 43.4    | ug/L  | 1378260  | 3                     | 11.48 | 1586870 | 50.0 |
| Ethanone, 1-(4-et... | 13.51 | 31.4    | ug/L  | 995087   | 3                     | 11.48 | 1586870 | 50.0 |
| (DEL) Alkane: Cyc... | 13.73 | 133.0   | ug/L  | 4220580  | 3                     | 11.48 | 1586870 | 50.0 |
| Cyclohexane, 1-me... | 13.79 | 75.8    | ug/L  | 2404490  | 3                     | 11.48 | 1586870 | 50.0 |
| (DEL) Alkane: Str... | 13.88 | 48.5    | ug/L  | 1539460  | 3                     | 11.48 | 1586870 | 50.0 |
| (DEL) Alkane: Str... | 15.66 | 26.9    | ug/L  | 853097   | 3                     | 11.48 | 1586870 | 50.0 |
| Naphthalene, 2,6-... | 15.91 | 90.7    | ug/L  | 2877600  | 3                     | 11.48 | 1586870 | 50.0 |
| Naphthalene, 2,3-... | 16.05 | 54.9    | ug/L  | 1743220  | 3                     | 11.48 | 1586870 | 50.0 |
| Naphthalene, 2,7-... | 16.10 | 48.8    | ug/L  | 1550190  | 3                     | 11.48 | 1586870 | 50.0 |
| unknown-07           | 16.53 | 9.5     | ug/L  | 302893   | 3                     | 11.48 | 1586870 | 50.0 |

|                      |       |           |        |   |       |         |      |
|----------------------|-------|-----------|--------|---|-------|---------|------|
| Naphthalene, 1,6,... | 16.76 | 23.5 ug/L | 746493 | 3 | 11.48 | 1586870 | 50.0 |
| Naphthalene, 2,3,... | 17.01 | 24.9 ug/L | 790839 | 3 | 11.48 | 1586870 | 50.0 |

Instrument :  
MSVOA\_U  
ClientSampleId :  
BF5F8