

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW032620\  
 Data File : VW015148.D  
 Acq On : 26 Mar 2020 14:16  
 Operator : SY/VA  
 Sample : L2045-02RE  
 Misc : 8.25G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 C0AB9RE

## 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\_W\METHOD\SOM2WLM032520S.M  
 Title : VOC Analysis

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|--------|----------|------------|----------|-----------|-------|-------------|------------|--------------|------------|
| 1      | 2.178    | 42         | 45       | 49        | rVB3  | 12808       | 17679      | 1.71%        | 0.179%     |
| 2      | 2.355    | 65         | 74       | 81        | rBV   | 186902      | 349865     | 33.85%       | 3.547%     |
| 3      | 2.892    | 155        | 162      | 174       | rVB   | 95733       | 227570     | 22.02%       | 2.307%     |
| 4      | 3.026    | 181        | 184      | 194       | rVB   | 24586       | 47817      | 4.63%        | 0.485%     |
| 5      | 3.300    | 224        | 229      | 234       | rVB5  | 5451        | 11244      | 1.09%        | 0.114%     |
| 6      | 3.385    | 235        | 243      | 262       | rVV2  | 121580      | 299855     | 29.01%       | 3.040%     |
| 7      | 3.580    | 269        | 275      | 284       | rVB2  | 16636       | 37335      | 3.61%        | 0.378%     |
| 8      | 3.751    | 298        | 303      | 310       | rVB7  | 7378        | 18164      | 1.76%        | 0.184%     |
| 9      | 3.855    | 310        | 320      | 329       | rBV2  | 17376       | 49581      | 4.80%        | 0.503%     |
| 10     | 4.013    | 334        | 346      | 356       | rBV2  | 131848      | 378318     | 36.61%       | 3.835%     |
| 11     | 4.117    | 356        | 363      | 376       | rVB   | 54008       | 141234     | 13.67%       | 1.432%     |
| 12     | 4.263    | 386        | 387      | 392       | rVB5  | 1575        | 2008       | 0.19%        | 0.020%     |
| 13     | 4.379    | 398        | 406      | 419       | rVB3  | 13843       | 44931      | 4.35%        | 0.455%     |
| 14     | 4.714    | 459        | 461      | 463       | rBV3  | 1697        | 1886       | 0.18%        | 0.019%     |
| 15     | 4.757    | 465        | 468      | 469       | rBV3  | 1620        | 1898       | 0.18%        | 0.019%     |
| 16     | 4.916    | 481        | 494      | 512       | rBV5  | 26945       | 142497     | 13.79%       | 1.445%     |
| 17     | 5.172    | 534        | 536      | 540       | rVB5  | 1717        | 2027       | 0.20%        | 0.021%     |
| 18     | 5.428    | 571        | 578      | 587       | rVV4  | 10761       | 31462      | 3.04%        | 0.319%     |
| 19     | 5.757    | 622        | 632      | 638       | rBV7  | 8212        | 28414      | 2.75%        | 0.288%     |
| 20     | 5.940    | 650        | 662      | 673       | rBV3  | 48731       | 148504     | 14.37%       | 1.505%     |
| 21     | 6.111    | 683        | 690      | 698       | rBV8  | 5413        | 14462      | 1.40%        | 0.147%     |
| 22     | 6.226    | 700        | 709      | 711       | rBV5  | 7312        | 16750      | 1.62%        | 0.170%     |
| 23     | 6.287    | 711        | 719      | 732       | rVB2  | 50505       | 151699     | 14.68%       | 1.538%     |
| 24     | 6.415    | 736        | 740      | 741       | rBV3  | 1618        | 2035       | 0.20%        | 0.021%     |
| 25     | 6.513    | 751        | 756      | 757       | rBV5  | 2091        | 2684       | 0.26%        | 0.027%     |
| 26     | 6.726    | 782        | 791      | 797       | rBV8  | 5625        | 13993      | 1.35%        | 0.142%     |
| 27     | 6.982    | 823        | 833      | 840       | rBV8  | 5928        | 14989      | 1.45%        | 0.152%     |
| 28     | 7.080    | 840        | 849      | 857       | rVV2  | 24136       | 71300      | 6.90%        | 0.723%     |
| 29     | 7.171    | 858        | 864      | 874       | rVB   | 28370       | 79119      | 7.66%        | 0.802%     |
| 30     | 7.312    | 886        | 887      | 894       | rVB6  | 1388        | 2165       | 0.21%        | 0.022%     |
| 31     | 7.494    | 912        | 917      | 918       | rBV4  | 3580        | 5084       | 0.49%        | 0.052%     |
| 32     | 7.647    | 931        | 942      | 959       | rVB   | 184957      | 478454     | 46.29%       | 4.850%     |
| 33     | 7.842    | 969        | 974      | 980       | rVB8  | 2385        | 4792       | 0.46%        | 0.049%     |
| 34     | 7.921    | 980        | 987      | 998       | rBV7  | 11561       | 38910      | 3.76%        | 0.394%     |

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 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\_W\METHOD\SOM2WLM032520S.M  
 Title : VOC Analysis

|    |        |      |      |      |      |        |         |         |         |
|----|--------|------|------|------|------|--------|---------|---------|---------|
| 35 | 8.031  | 998  | 1005 | 1013 | rVB9 | 6917   | 21601   | 2.09%   | 0.219%  |
| 36 | 8.153  | 1017 | 1025 | 1033 | rBV2 | 21568  | 50554   | 4.89%   | 0.513%  |
| 37 | 8.275  | 1035 | 1045 | 1062 | rBV2 | 343339 | 1033500 | 100.00% | 10.477% |
| 38 | 8.427  | 1066 | 1070 | 1072 | rBV5 | 3968   | 6183    | 0.60%   | 0.063%  |
| 39 | 8.519  | 1081 | 1085 | 1090 | rVB7 | 4233   | 6913    | 0.67%   | 0.070%  |
| 40 | 8.689  | 1104 | 1113 | 1125 | rVB2 | 52875  | 121799  | 11.79%  | 1.235%  |
| 41 | 8.842  | 1128 | 1138 | 1157 | rBV  | 318863 | 677487  | 65.55%  | 6.868%  |
| 42 | 8.988  | 1159 | 1162 | 1163 | rBV3 | 3770   | 3820    | 0.37%   | 0.039%  |
| 43 | 9.073  | 1170 | 1176 | 1181 | rBV8 | 4444   | 10589   | 1.02%   | 0.107%  |
| 44 | 9.275  | 1200 | 1209 | 1224 | rBV  | 251812 | 534284  | 51.70%  | 5.416%  |
| 45 | 9.506  | 1244 | 1247 | 1256 | rVB9 | 5807   | 13708   | 1.33%   | 0.139%  |
| 46 | 9.604  | 1256 | 1263 | 1265 | rBV7 | 2764   | 5956    | 0.58%   | 0.060%  |
| 47 | 9.659  | 1269 | 1272 | 1273 | rBV3 | 2164   | 1890    | 0.18%   | 0.019%  |
| 48 | 9.689  | 1273 | 1277 | 1281 | rBV6 | 2155   | 3198    | 0.31%   | 0.032%  |
| 49 | 9.750  | 1283 | 1287 | 1290 | rVB5 | 3656   | 4870    | 0.47%   | 0.049%  |
| 50 | 9.896  | 1309 | 1311 | 1316 | rVB6 | 3099   | 4161    | 0.40%   | 0.042%  |
| 51 | 9.951  | 1316 | 1320 | 1324 | rBV4 | 8647   | 14673   | 1.42%   | 0.149%  |
| 52 | 10.031 | 1327 | 1333 | 1339 | rVV  | 87714  | 154734  | 14.97%  | 1.569%  |
| 53 | 10.092 | 1341 | 1343 | 1346 | rVV4 | 5020   | 5547    | 0.54%   | 0.056%  |
| 54 | 10.207 | 1356 | 1362 | 1372 | rBV  | 65690  | 119309  | 11.54%  | 1.210%  |
| 55 | 10.323 | 1374 | 1381 | 1386 | rBV  | 270219 | 491407  | 47.55%  | 4.982%  |
| 56 | 10.384 | 1386 | 1391 | 1403 | rVB  | 98131  | 188969  | 18.28%  | 1.916%  |
| 57 | 10.506 | 1403 | 1411 | 1417 | rBV  | 476281 | 782092  | 75.67%  | 7.929%  |
| 58 | 10.573 | 1417 | 1422 | 1428 | rVB  | 66601  | 115198  | 11.15%  | 1.168%  |
| 59 | 10.695 | 1438 | 1442 | 1448 | rBV3 | 5622   | 10204   | 0.99%   | 0.103%  |
| 60 | 10.921 | 1473 | 1479 | 1490 | rBV  | 81069  | 159007  | 15.39%  | 1.612%  |
| 61 | 11.061 | 1499 | 1502 | 1505 | rBV5 | 2547   | 4043    | 0.39%   | 0.041%  |
| 62 | 11.219 | 1526 | 1528 | 1534 | rVB7 | 5332   | 7772    | 0.75%   | 0.079%  |
| 63 | 11.286 | 1534 | 1539 | 1544 | rVB8 | 3406   | 7495    | 0.73%   | 0.076%  |
| 64 | 11.341 | 1544 | 1548 | 1551 | rBV6 | 2304   | 2579    | 0.25%   | 0.026%  |
| 65 | 11.402 | 1553 | 1558 | 1562 | rBV7 | 3702   | 7534    | 0.73%   | 0.076%  |
| 66 | 11.512 | 1573 | 1576 | 1580 | rBV4 | 2399   | 2988    | 0.29%   | 0.030%  |
| 67 | 11.628 | 1585 | 1595 | 1606 | rBV  | 227521 | 401394  | 38.84%  | 4.069%  |
| 68 | 11.725 | 1606 | 1611 | 1621 | rVB2 | 18560  | 32152   | 3.11%   | 0.326%  |
| 69 | 11.835 | 1621 | 1629 | 1639 | rVB3 | 32182  | 69441   | 6.72%   | 0.704%  |
| 70 | 12.024 | 1656 | 1660 | 1665 | rVB8 | 3697   | 6096    | 0.59%   | 0.062%  |
| 71 | 12.164 | 1674 | 1683 | 1691 | rBV5 | 12894  | 27048   | 2.62%   | 0.274%  |

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## Integration Parameters: LSCINT.P

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 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

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 Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM032520S.M  
 Title : VOC Analysis

|     |        |      |      |      |      |        |        |        |        |
|-----|--------|------|------|------|------|--------|--------|--------|--------|
| 72  | 12.237 | 1691 | 1695 | 1698 | rBV4 | 4396   | 7052   | 0.68%  | 0.071% |
| 73  | 12.329 | 1705 | 1710 | 1711 | rBV5 | 3843   | 5481   | 0.53%  | 0.056% |
| 74  | 12.365 | 1711 | 1716 | 1722 | rVB4 | 21085  | 37964  | 3.67%  | 0.385% |
| 75  | 12.469 | 1725 | 1733 | 1741 | rBV  | 237716 | 401001 | 38.80% | 4.065% |
| 76  | 12.652 | 1759 | 1763 | 1764 | rBV4 | 11988  | 15481  | 1.50%  | 0.157% |
| 77  | 12.719 | 1765 | 1774 | 1785 | rVB2 | 135187 | 355925 | 34.44% | 3.608% |
| 78  | 12.865 | 1794 | 1798 | 1804 | rBV7 | 4576   | 8724   | 0.84%  | 0.088% |
| 79  | 12.939 | 1805 | 1810 | 1818 | rVV6 | 12180  | 30032  | 2.91%  | 0.304% |
| 80  | 13.024 | 1818 | 1824 | 1839 | rVB2 | 141680 | 273805 | 26.49% | 2.776% |
| 81  | 13.176 | 1844 | 1849 | 1852 | rBV  | 30754  | 48038  | 4.65%  | 0.487% |
| 82  | 13.268 | 1858 | 1864 | 1873 | rVB6 | 25431  | 68960  | 6.67%  | 0.699% |
| 83  | 13.384 | 1875 | 1883 | 1890 | rVB3 | 18441  | 38903  | 3.76%  | 0.394% |
| 84  | 13.469 | 1891 | 1897 | 1898 | rBV  | 57610  | 80762  | 7.81%  | 0.819% |
| 85  | 13.493 | 1898 | 1901 | 1906 | rVV  | 114623 | 173461 | 16.78% | 1.759% |
| 86  | 13.554 | 1906 | 1911 | 1917 | rVB  | 76474  | 121027 | 11.71% | 1.227% |
| 87  | 13.713 | 1932 | 1937 | 1941 | rBV2 | 20349  | 34222  | 3.31%  | 0.347% |
| 88  | 13.853 | 1953 | 1960 | 1971 | rVB  | 56420  | 105207 | 10.18% | 1.067% |
| 89  | 13.963 | 1974 | 1978 | 1982 | rBV7 | 7036   | 12337  | 1.19%  | 0.125% |
| 90  | 14.335 | 2036 | 2039 | 2044 | rVB7 | 2214   | 4074   | 0.39%  | 0.041% |
| 91  | 14.426 | 2050 | 2054 | 2056 | rBV4 | 3387   | 4922   | 0.48%  | 0.050% |
| 92  | 14.579 | 2075 | 2079 | 2080 | rBV4 | 2314   | 2778   | 0.27%  | 0.028% |
| 93  | 14.798 | 2111 | 2115 | 2124 | rVB4 | 2903   | 6459   | 0.62%  | 0.065% |
| 94  | 15.011 | 2145 | 2150 | 2151 | rVV5 | 2195   | 3135   | 0.30%  | 0.032% |
| 95  | 15.066 | 2154 | 2159 | 2164 | rVV7 | 8788   | 15421  | 1.49%  | 0.156% |
| 96  | 15.286 | 2191 | 2195 | 2205 | rBV7 | 3035   | 8856   | 0.86%  | 0.090% |
| 97  | 15.438 | 2218 | 2220 | 2223 | rBV3 | 1510   | 1965   | 0.19%  | 0.020% |
| 98  | 15.469 | 2223 | 2225 | 2228 | rVB4 | 1876   | 2056   | 0.20%  | 0.021% |
| 99  | 15.719 | 2262 | 2266 | 2269 | rVB6 | 3627   | 4794   | 0.46%  | 0.049% |
| 100 | 15.816 | 2280 | 2282 | 2290 | rBV8 | 1245   | 2382   | 0.23%  | 0.024% |

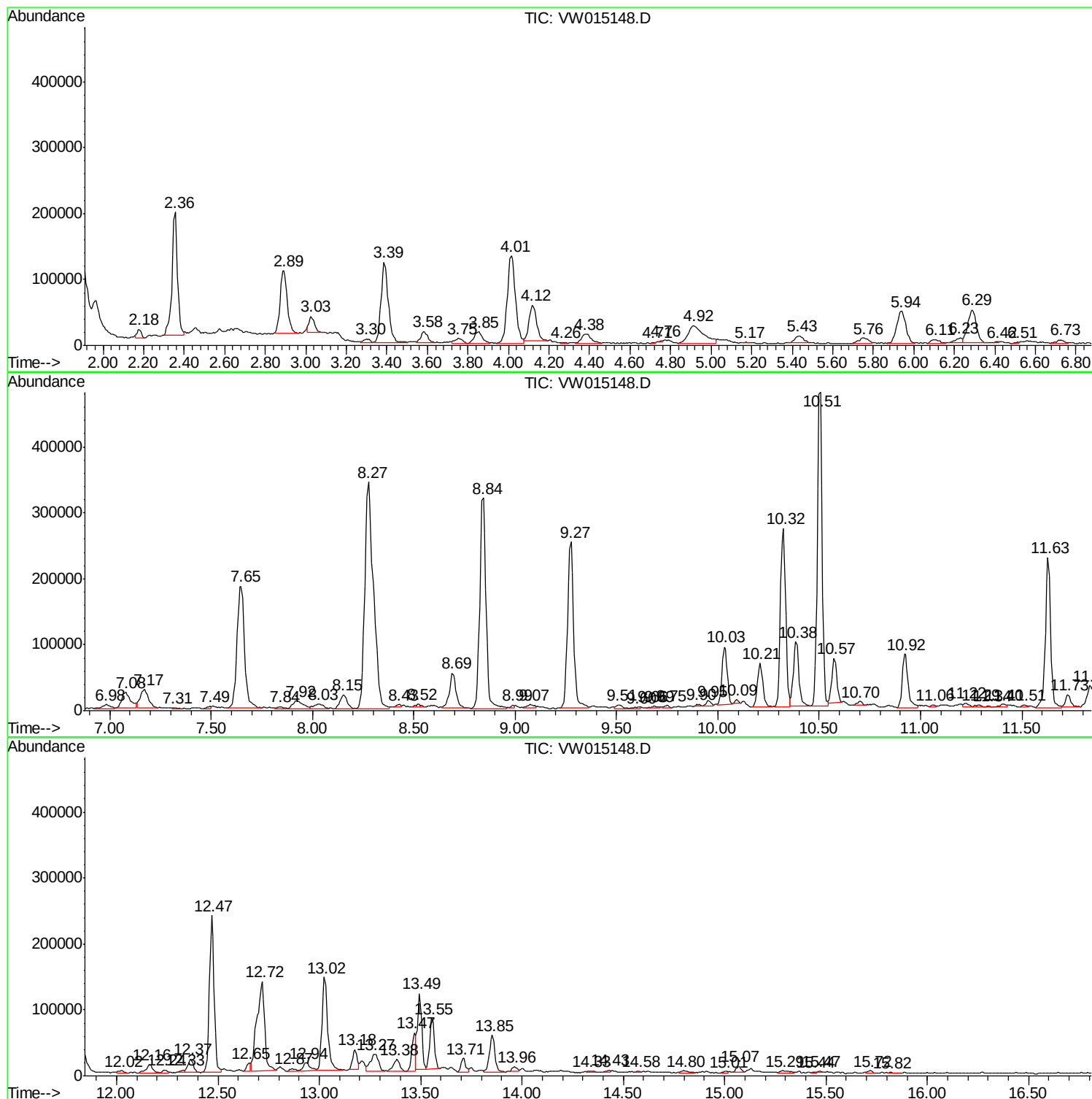
Sum of corrected areas: 9864144

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM032520S.M  
Quant Title : VOC Analysis

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



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW032620\  
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM032520S.M  
Quant Title : VOC Analysis

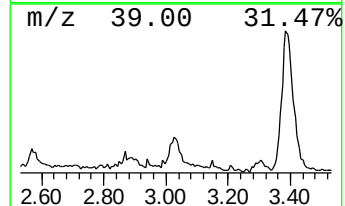
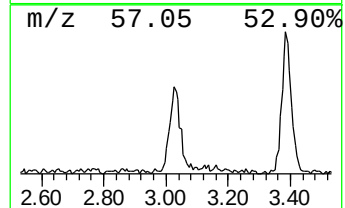
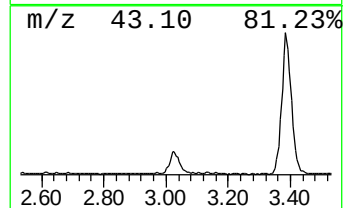
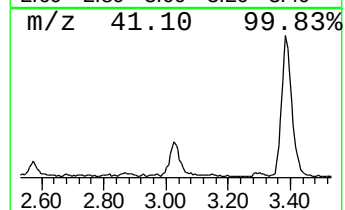
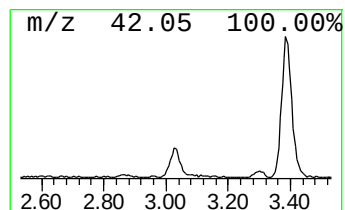
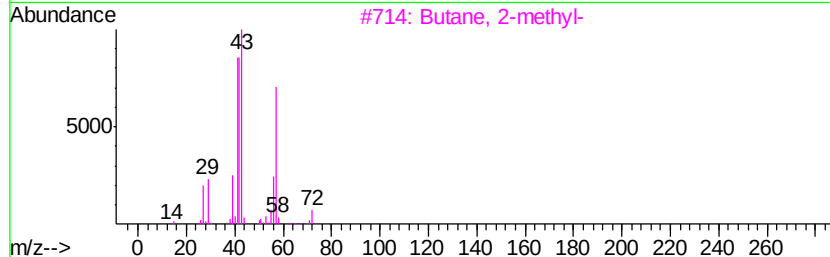
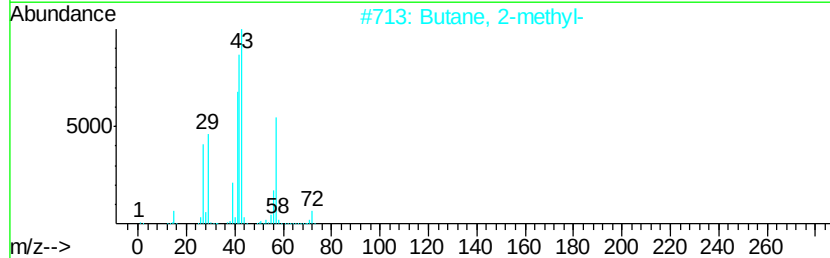
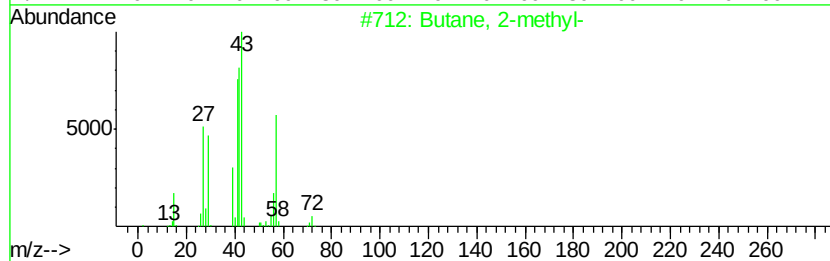
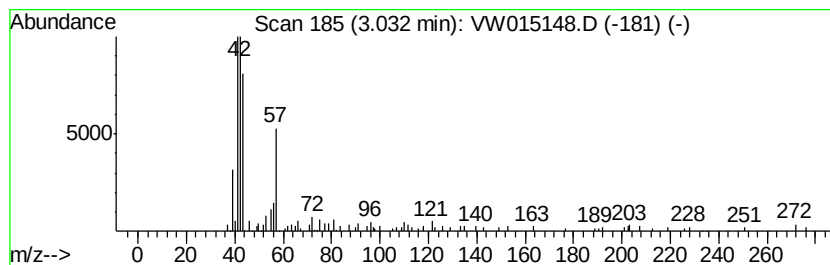
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 (DEL) Alkane: Straight-Chai... Concentration Rank 23

| R.T. | EstConc   | Area  | Relative to ISTD    | R.T. |
|------|-----------|-------|---------------------|------|
| 3.03 | 1.76 ug/L | 47817 | 1,4-Difluorobenzene | 8.84 |

| Hit# | of | Tentative ID                        | MW  | MolForm      | CAS#         | Qual |
|------|----|-------------------------------------|-----|--------------|--------------|------|
| 1    | 5  | Butane, 2-methyl-                   | 72  | C5H12        | 000078-78-4  | 64   |
| 2    |    | Butane, 2-methyl-                   | 72  | C5H12        | 000078-78-4  | 59   |
| 3    |    | Butane, 2-methyl-                   | 72  | C5H12        | 000078-78-4  | 59   |
| 4    |    | 3-Buten-1-ol                        | 72  | C4H8O        | 000627-27-0  | 59   |
| 5    |    | 2-t-Butyl-5-(3-chloro-2-methylpr... | 346 | C17H31ClN2O3 | 1000193-09-7 | 39   |



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Quant Title : VOC Analysis

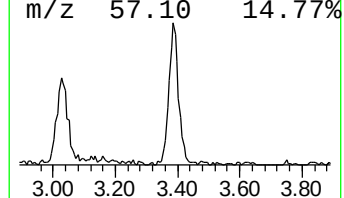
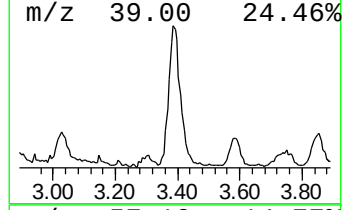
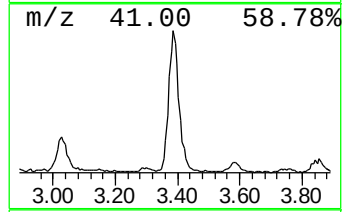
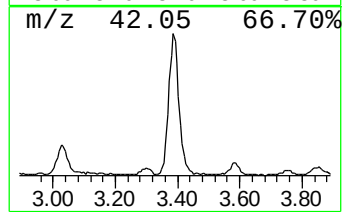
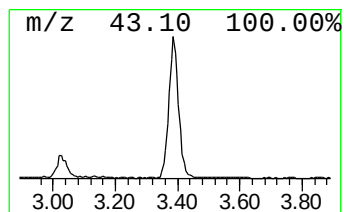
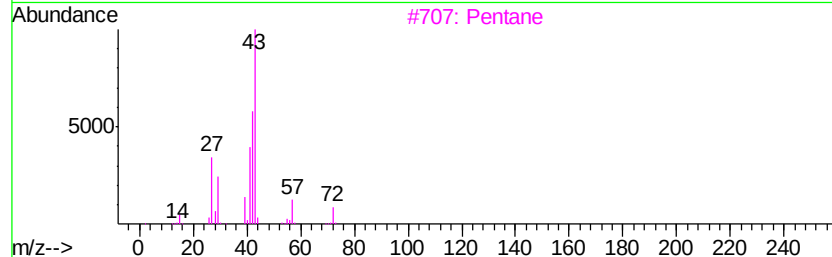
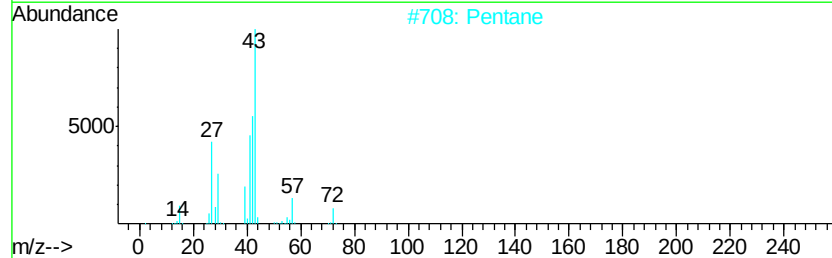
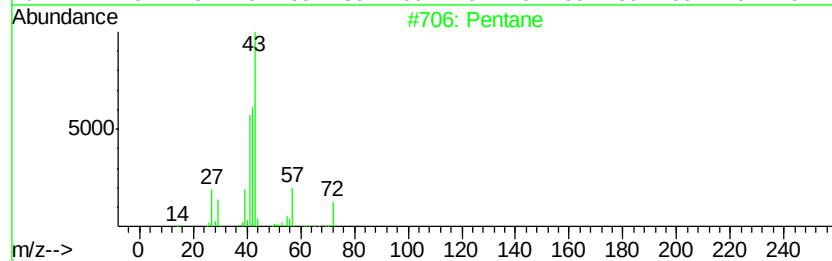
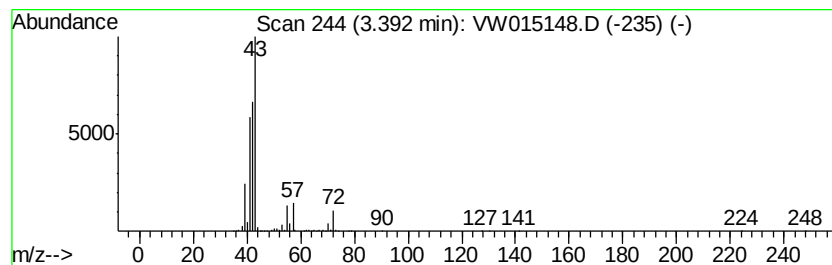
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 2 (DEL) Alkane: Straight-Chai... Concentration Rank 7

| R.T. | EstConc    | Area   | Relative to ISTD    | R.T. |
|------|------------|--------|---------------------|------|
| 3.39 | 11.07 ug/L | 299855 | 1,4-Difluorobenzene | 8.84 |

| Hit# | of | Tentative ID      | MW | MolForm | CAS#        | Qual |
|------|----|-------------------|----|---------|-------------|------|
| 1    | 5  | Pentane           | 72 | C5H12   | 000109-66-0 | 91   |
| 2    |    | Pentane           | 72 | C5H12   | 000109-66-0 | 86   |
| 3    |    | Pentane           | 72 | C5H12   | 000109-66-0 | 72   |
| 4    |    | Butane, 2-methyl- | 72 | C5H12   | 000078-78-4 | 59   |
| 5    |    | Butane, 2-methyl- | 72 | C5H12   | 000078-78-4 | 53   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW032620\  
Data File : VW015148.D  
Acq On : 26 Mar 2020 14:16  
Operator : SY/VA  
Sample : L2045-02RE  
Misc : 8.25G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
C0AB9RE

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM032520S.M  
Quant Title : VOC Analysis

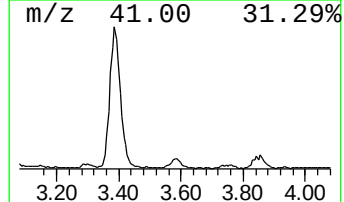
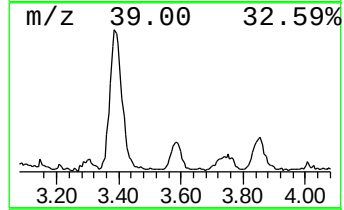
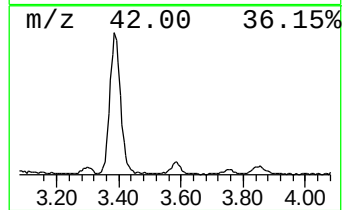
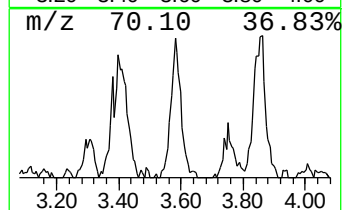
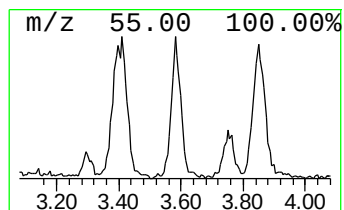
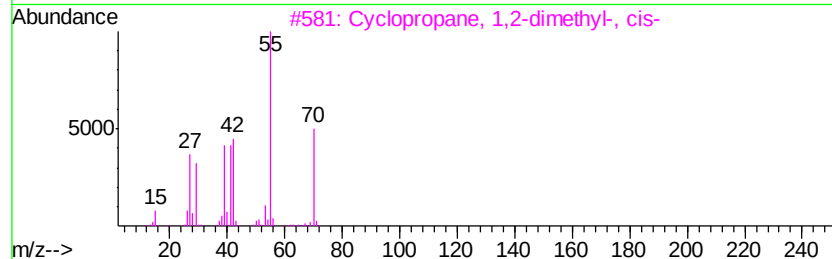
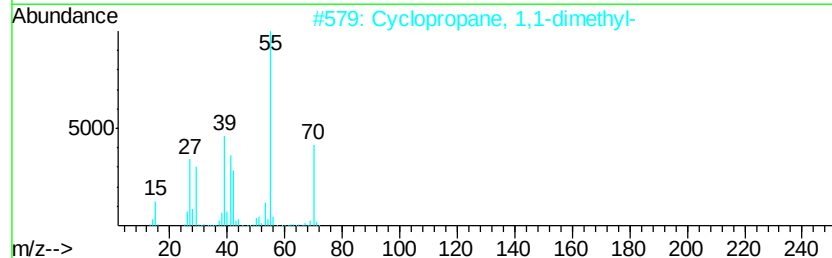
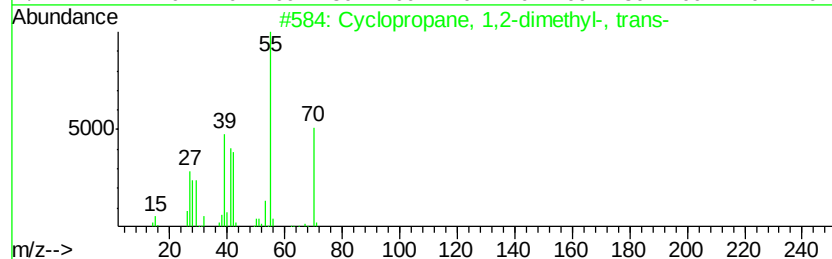
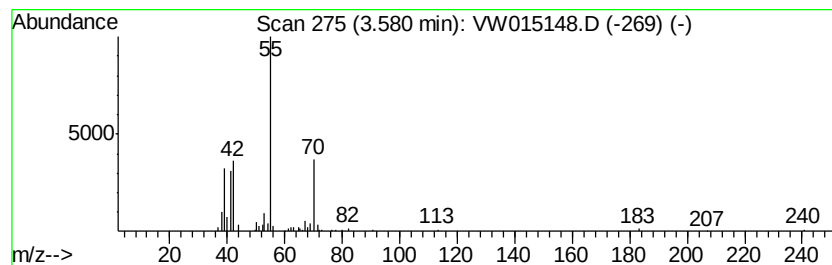
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TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 (DEL) Alkane: Cyclic3.58 Concentration Rank 25

| R.T. | EstConc   | Area  | Relative to ISTD    | R.T. |
|------|-----------|-------|---------------------|------|
| 3.58 | 1.38 ug/L | 37335 | 1,4-Difluorobenzene | 8.84 |

| Hit# | of | Tentative ID                        | MW | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|----|---------|-------------|------|
| 1    | 5  | Cyclopropane, 1,2-dimethyl-, trans- | 70 | C5H10   | 002402-06-4 | 74   |
| 2    |    | Cyclopropane, 1,1-dimethyl-         | 70 | C5H10   | 001630-94-0 | 72   |
| 3    |    | Cyclopropane, 1,2-dimethyl-, cis-   | 70 | C5H10   | 000930-18-7 | 72   |
| 4    |    | 2-Butene, 2-methyl-                 | 70 | C5H10   | 000513-35-9 | 64   |
| 5    |    | 2-Pentene, (Z)-                     | 70 | C5H10   | 000627-20-3 | 64   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW032620\  
Data File : VW015148.D  
Acq On : 26 Mar 2020 14:16  
Operator : SY/VA  
Sample : L2045-02RE  
Misc : 8.25G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
C0AB9RE

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM032520S.M  
Quant Title : VOC Analysis

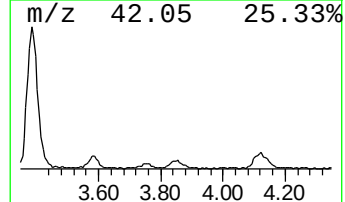
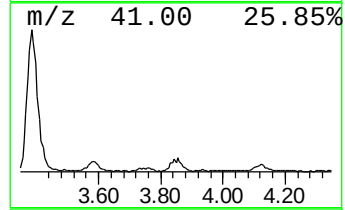
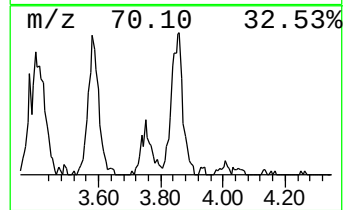
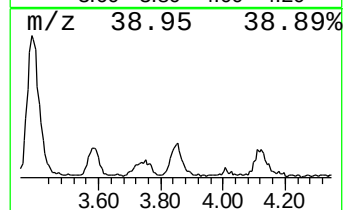
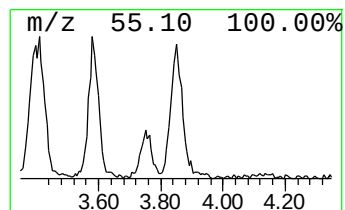
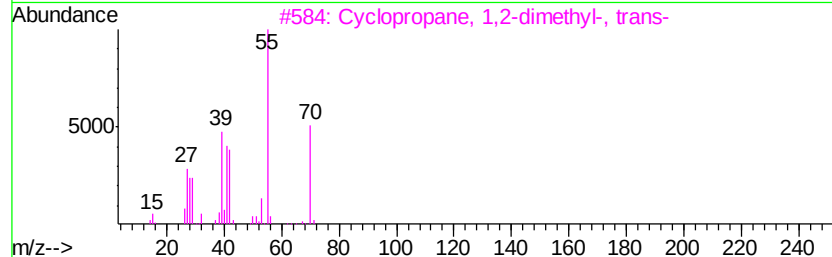
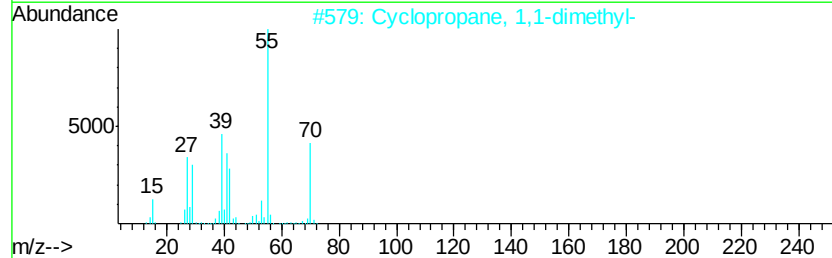
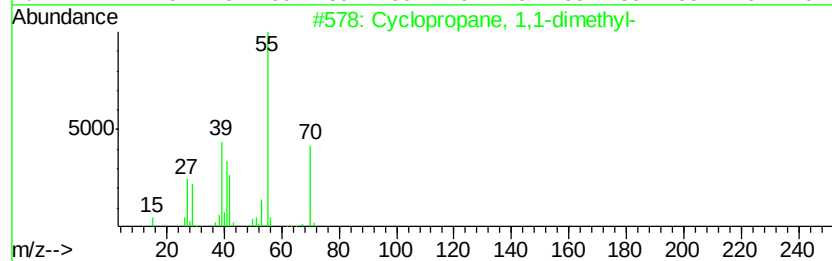
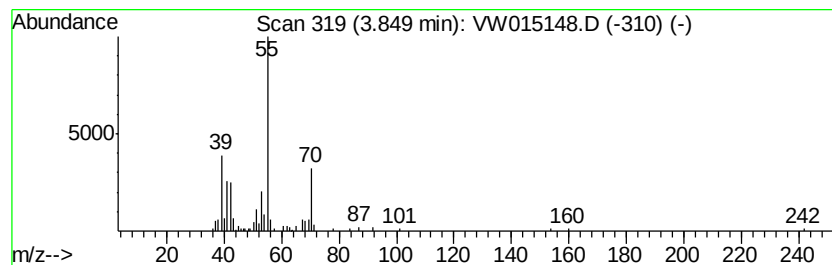
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 4 (DEL) Alkane: Cyclic3.85 Concentration Rank 20

| R.T. | EstConc   | Area  | Relative to ISTD    | R.T. |
|------|-----------|-------|---------------------|------|
| 3.85 | 1.83 ug/L | 49581 | 1,4-Difluorobenzene | 8.84 |

| Hit# | of | Tentative ID                        | MW | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|----|---------|-------------|------|
| 1    | 5  | Cyclopropane, 1,1-dimethyl-         | 70 | C5H10   | 001630-94-0 | 91   |
| 2    |    | Cyclopropane, 1,1-dimethyl-         | 70 | C5H10   | 001630-94-0 | 87   |
| 3    |    | Cyclopropane, 1,2-dimethyl-, trans- | 70 | C5H10   | 002402-06-4 | 80   |
| 4    |    | 2-Pentene, (E)-                     | 70 | C5H10   | 000646-04-8 | 74   |
| 5    |    | Cyclopropane, 1,1-dimethyl-         | 70 | C5H10   | 001630-94-0 | 64   |





Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW032620\  
Data File : VW015148.D  
Acq On : 26 Mar 2020 14:16  
Operator : SY/VA  
Sample : L2045-02RE  
Misc : 8.25G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
C0AB9RE

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM032520S.M  
Quant Title : VOC Analysis

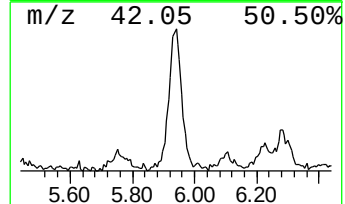
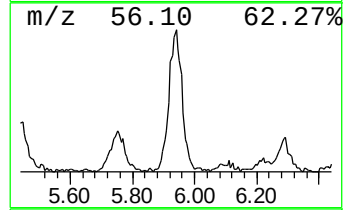
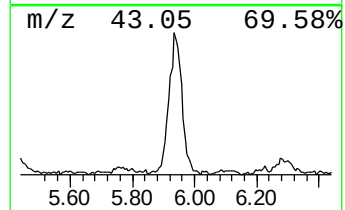
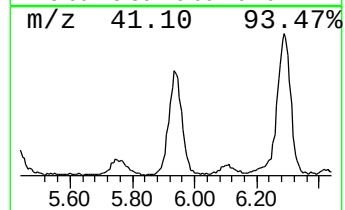
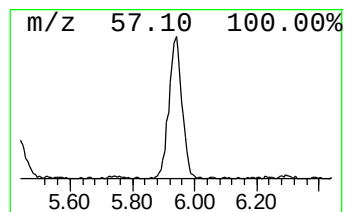
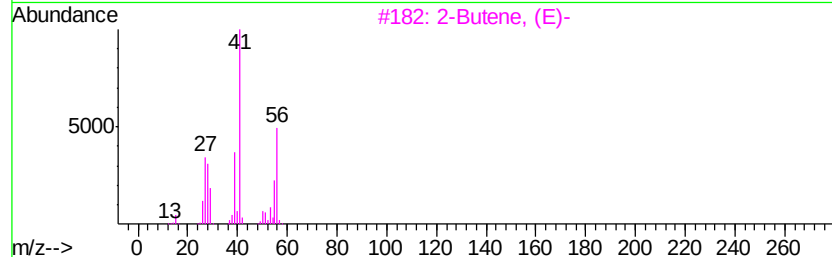
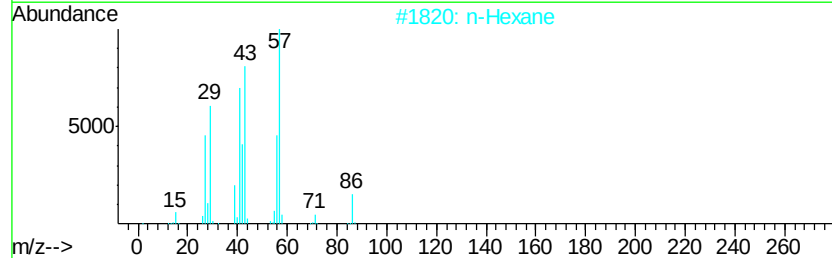
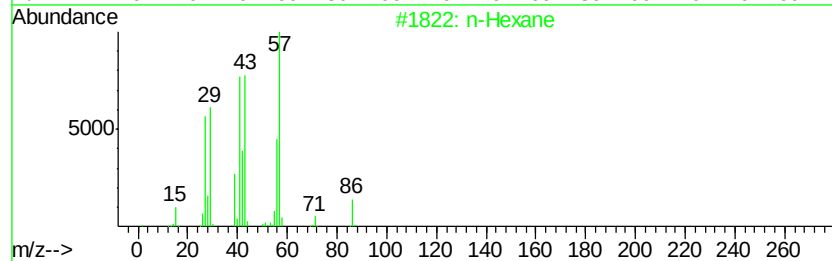
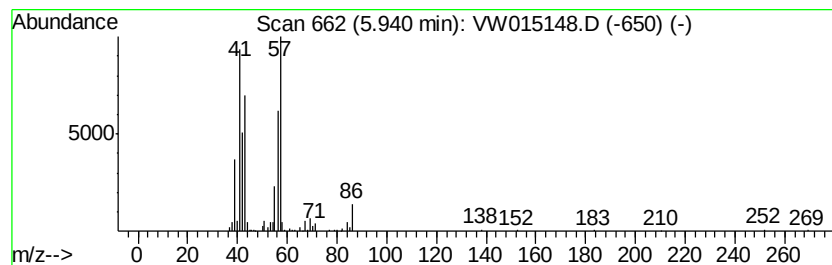
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 (DEL) Alkane: Straight-Chai... Concentration Rank 14

| R.T. | EstConc   | Area   | Relative to ISTD    | R.T. |
|------|-----------|--------|---------------------|------|
| 5.94 | 5.48 ug/L | 148504 | 1,4-Difluorobenzene | 8.84 |

| Hit# | of | Tentative ID   | MW | MolForm | CAS#        | Qual |
|------|----|----------------|----|---------|-------------|------|
| 1    | 5  | n-Hexane       | 86 | C6H14   | 000110-54-3 | 78   |
| 2    |    | n-Hexane       | 86 | C6H14   | 000110-54-3 | 50   |
| 3    |    | 2-Butene, (E)- | 56 | C4H8    | 000624-64-6 | 38   |
| 4    |    | 2-Butene       | 56 | C4H8    | 000107-01-7 | 38   |
| 5    |    | 2-Butene, (Z)- | 56 | C4H8    | 000590-18-1 | 38   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW032620\  
Data File : VW015148.D  
Acq On : 26 Mar 2020 14:16  
Operator : SY/VA  
Sample : L2045-02RE  
Misc : 8.25G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

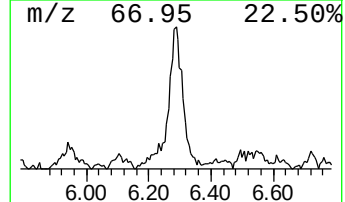
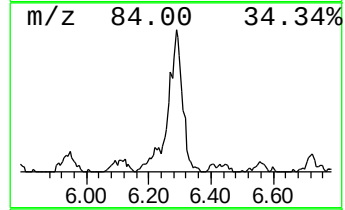
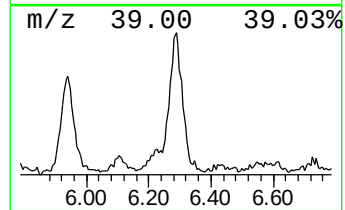
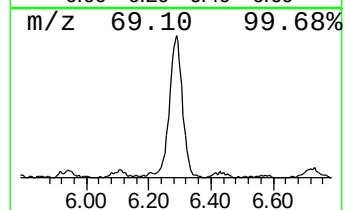
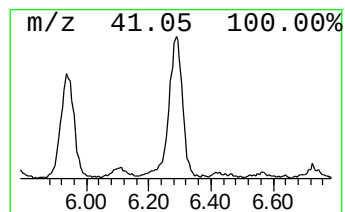
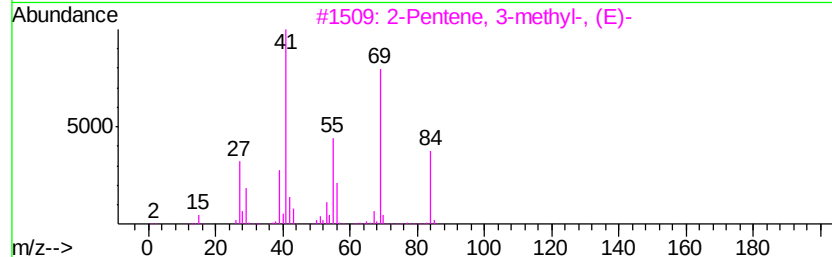
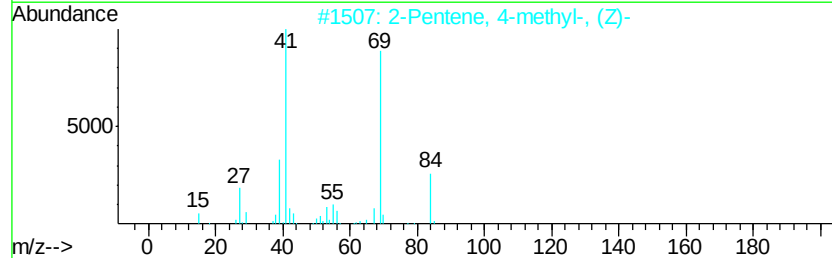
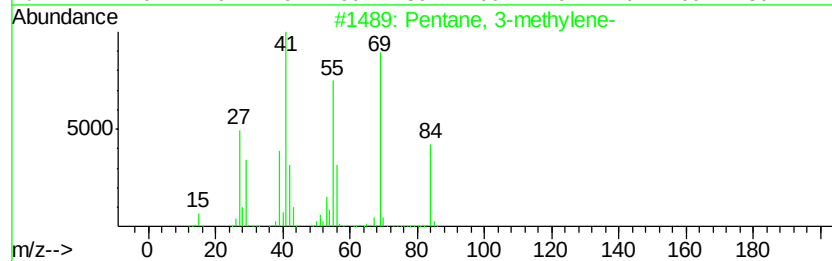
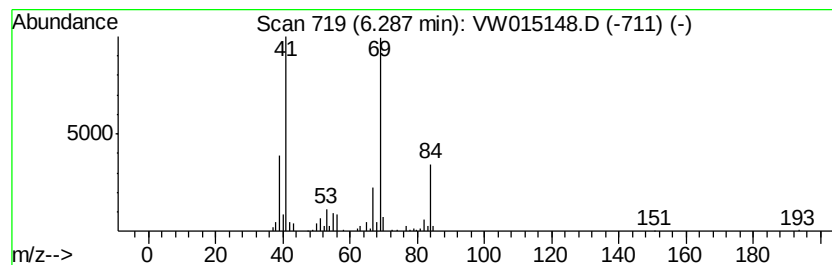
Instrument :  
MSVOA\_W  
ClientSampleId :  
C0AB9RE

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM032520S.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: Straight-Chai... Concentration Rank 13

| R.T.      | EstConc                    | Area   | Relative to ISTD    | R.T.        |      |
|-----------|----------------------------|--------|---------------------|-------------|------|
| 6.29      | 5.60 ug/L                  | 151699 | 1,4-Difluorobenzene | 8.84        |      |
| Hit# of 5 | Tentative ID               | MW     | MolForm             | CAS#        | Qual |
| 1         | Pentane, 3-methylene-      | 84     | C6H12               | 000760-21-4 | 86   |
| 2         | 2-Pentene, 4-methyl-, (Z)- | 84     | C6H12               | 000691-38-3 | 62   |
| 3         | 2-Pentene, 3-methyl-, (E)- | 84     | C6H12               | 000616-12-6 | 58   |
| 4         | 2-Butene, 2,3-dimethyl-    | 84     | C6H12               | 000563-79-1 | 58   |
| 5         | 2-Pentene, 2-methyl-       | 84     | C6H12               | 000625-27-4 | 58   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW032620\  
Data File : VW015148.D  
Acq On : 26 Mar 2020 14:16  
Operator : SY/VA  
Sample : L2045-02RE  
Misc : 8.25G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
C0AB9RE

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM032520S.M  
Quant Title : VOC Analysis

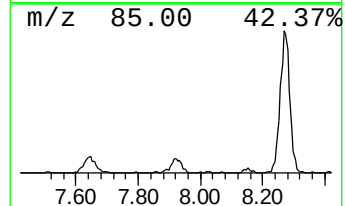
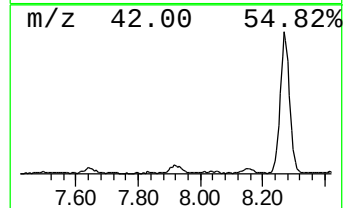
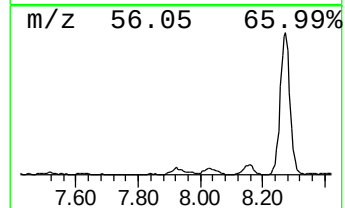
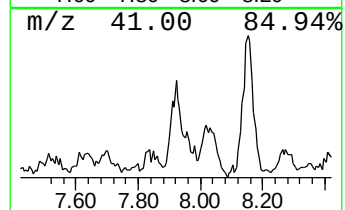
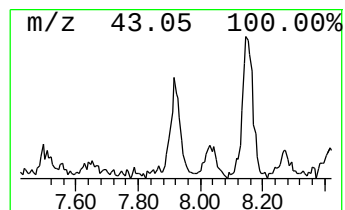
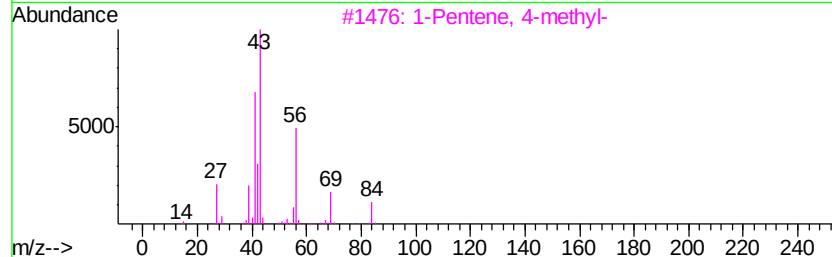
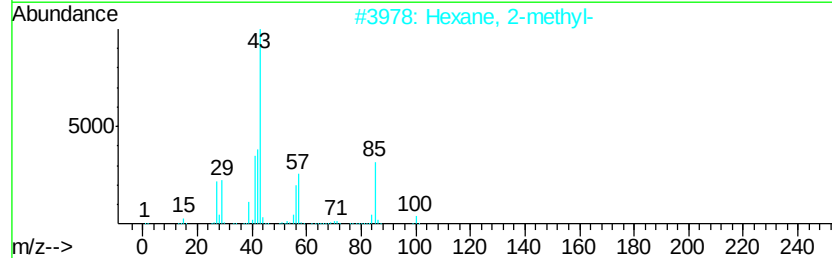
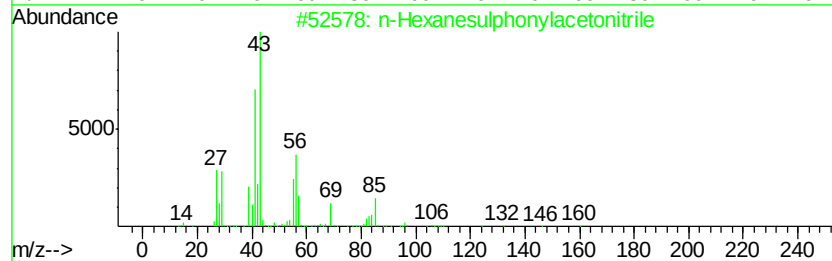
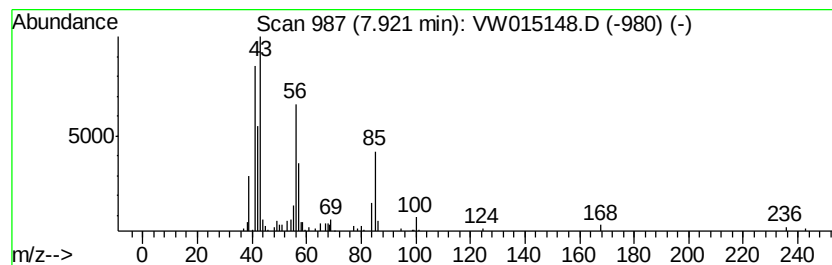
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 7 n-Hexanesulphonylacetonitrile Concentration Rank 24

| R.T. | EstConc   | Area  | Relative to ISTD    | R.T. |
|------|-----------|-------|---------------------|------|
| 7.92 | 1.44 ug/L | 38910 | 1,4-Difluorobenzene | 8.84 |

| Hit# | of | Tentative ID                      | MW  | MolForm   | CAS#        | Qual |
|------|----|-----------------------------------|-----|-----------|-------------|------|
| 1    | 5  | n-Hexanesulphonylacetonitrile     | 189 | C8H15NO2S | 203310-42-3 | 53   |
| 2    |    | Hexane, 2-methyl-                 | 100 | C7H16     | 000591-76-4 | 53   |
| 3    |    | 1-Pentene, 4-methyl-              | 84  | C6H12     | 000691-37-2 | 46   |
| 4    |    | 2(3H)-Furanone, dihydro-5-methyl- | 100 | C5H8O2    | 000108-29-2 | 43   |
| 5    |    | 1-Pentene, 4-methyl-              | 84  | C6H12     | 000691-37-2 | 43   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW032620\  
Data File : VW015148.D  
Acq On : 26 Mar 2020 14:16  
Operator : SY/VA  
Sample : L2045-02RE  
Misc : 8.25G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
C0AB9RE

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM032520S.M  
Quant Title : VOC Analysis

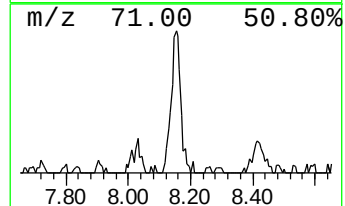
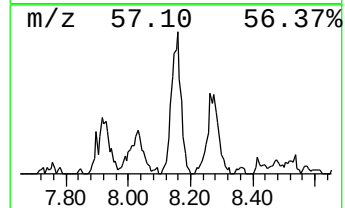
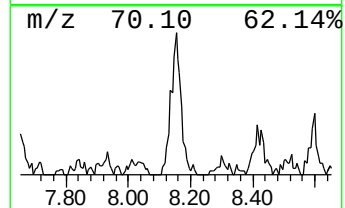
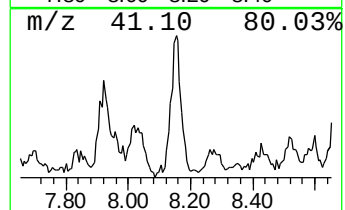
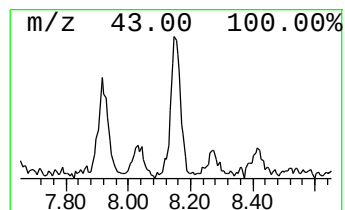
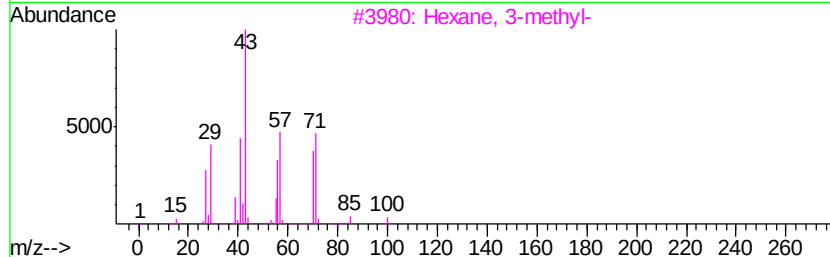
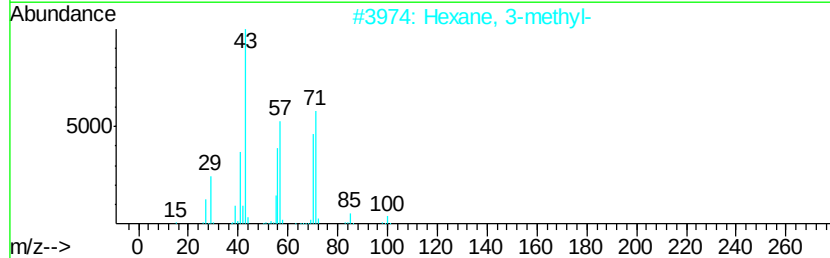
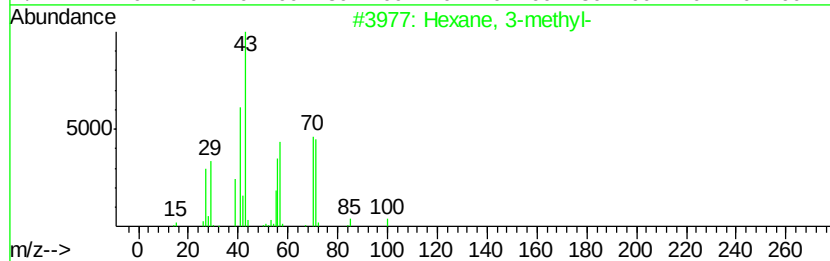
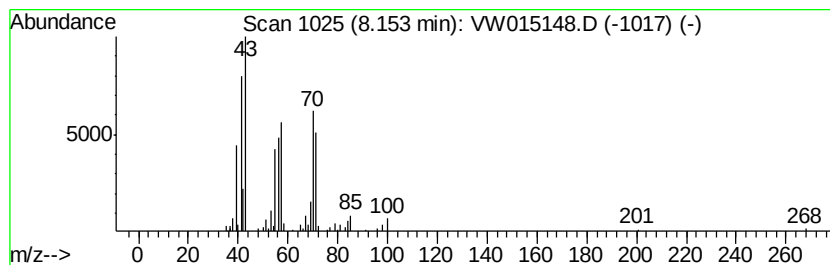
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TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 8 (DEL) Alkane: Straight-Chai... Concentration Rank 19

| R.T. | EstConc   | Area  | Relative to ISTD    | R.T. |
|------|-----------|-------|---------------------|------|
| 8.15 | 1.87 ug/L | 50554 | 1,4-Difluorobenzene | 8.84 |

| Hit# | of | Tentative ID          | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------|-----|---------|-------------|------|
| 1    | 5  | Hexane, 3-methyl-     | 100 | C7H16   | 000589-34-4 | 62   |
| 2    |    | Hexane, 3-methyl-     | 100 | C7H16   | 000589-34-4 | 52   |
| 3    |    | Hexane, 3-methyl-     | 100 | C7H16   | 000589-34-4 | 46   |
| 4    |    | (E)-1,3-Butadien-1-ol | 70  | C4H6O   | 070411-98-2 | 43   |
| 5    |    | Pyrrolidine           | 71  | C4H9N   | 000123-75-1 | 43   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW032620\  
Data File : VW015148.D  
Acq On : 26 Mar 2020 14:16  
Operator : SY/VA  
Sample : L2045-02RE  
Misc : 8.25G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
C0AB9RE

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM032520S.M  
Quant Title : VOC Analysis

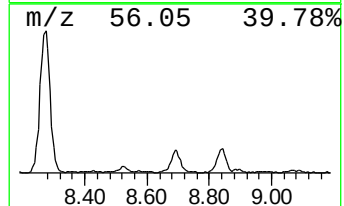
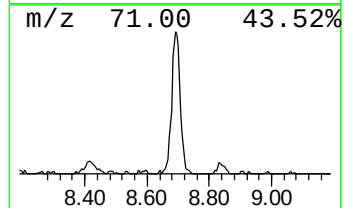
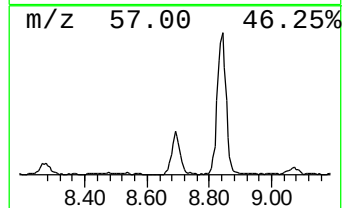
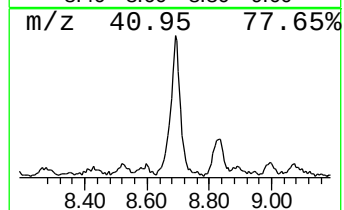
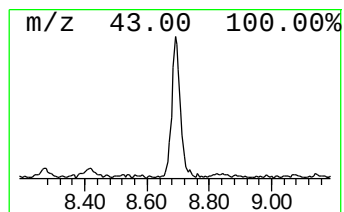
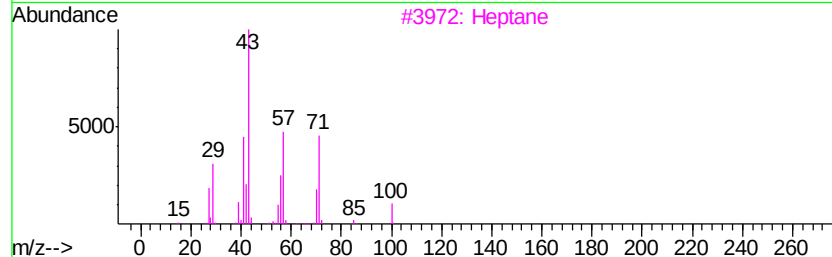
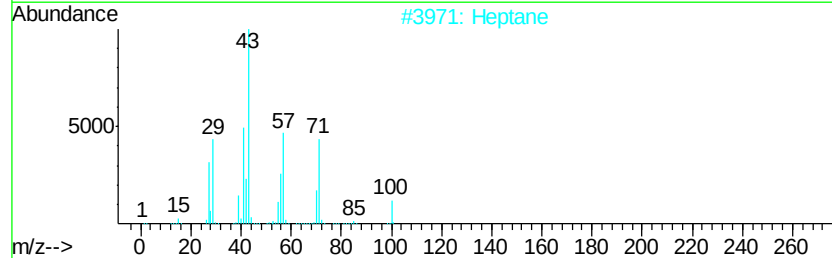
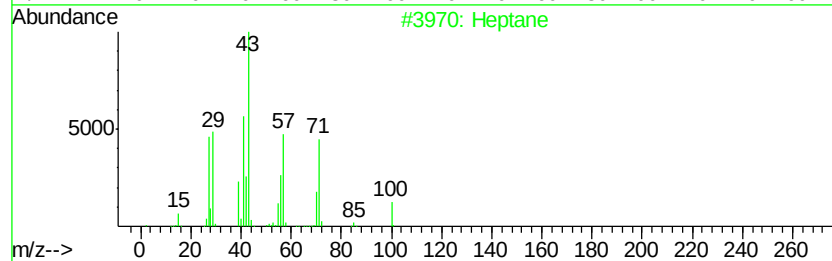
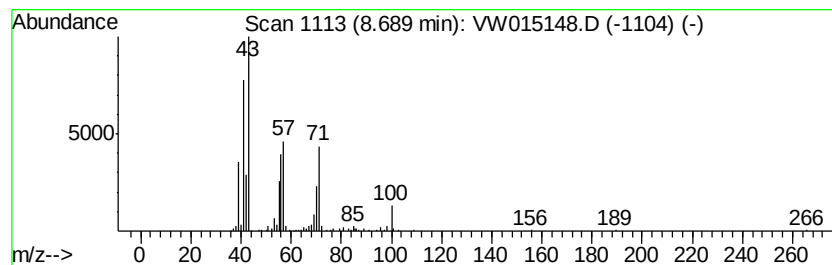
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 9 (DEL) Alkane: Straight-Chai... Concentration Rank 15

| R.T. | EstConc   | Area   | Relative to ISTD    | R.T. |
|------|-----------|--------|---------------------|------|
| 8.69 | 4.49 ug/L | 121799 | 1,4-Difluorobenzene | 8.84 |

| Hit# | of | Tentative ID      | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------|-----|---------|-------------|------|
| 1    | 5  | Heptane           | 100 | C7H16   | 000142-82-5 | 83   |
| 2    |    | Heptane           | 100 | C7H16   | 000142-82-5 | 72   |
| 3    |    | Heptane           | 100 | C7H16   | 000142-82-5 | 72   |
| 4    |    | Hexane, 3-methyl- | 100 | C7H16   | 000589-34-4 | 59   |
| 5    |    | Heptane           | 100 | C7H16   | 000142-82-5 | 58   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW032620\  
Data File : VW015148.D  
Acq On : 26 Mar 2020 14:16  
Operator : SY/VA  
Sample : L2045-02RE  
Misc : 8.25G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
C0AB9RE

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM032520S.M  
Quant Title : VOC Analysis

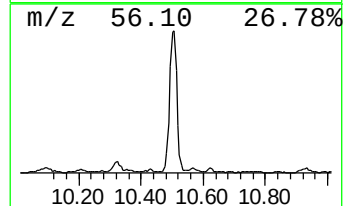
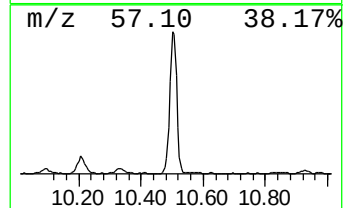
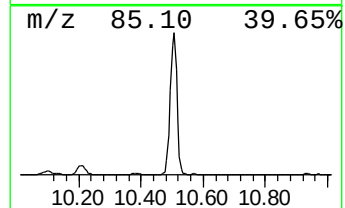
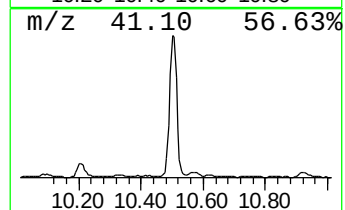
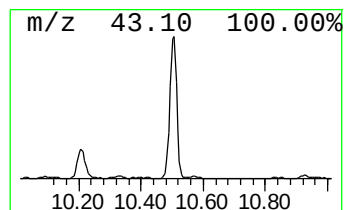
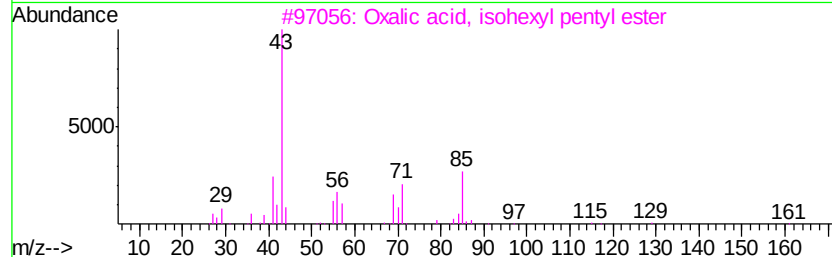
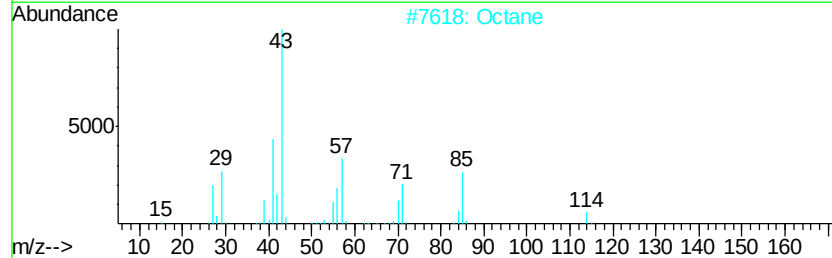
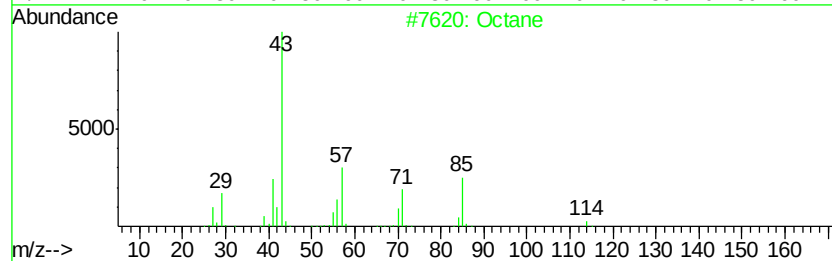
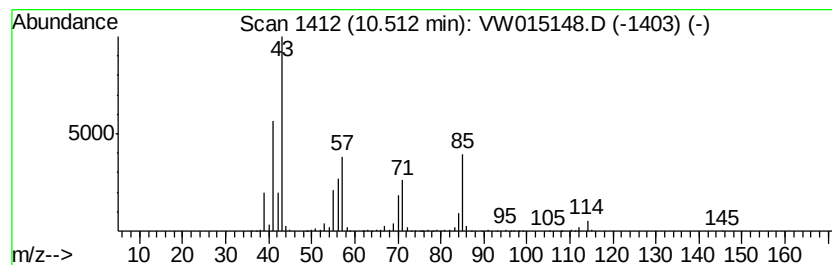
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 11 (DEL) Alkane: Straight-Chai... Concentration Rank 2

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 10.51 | 48.71 ug/L | 782092 | Chlorobenzene-d5 | 11.63 |

| Hit# | of | Tentative ID                       | MW  | MolForm  | CAS#         | Qual |
|------|----|------------------------------------|-----|----------|--------------|------|
| 1    | 5  | Octane                             | 114 | C8H18    | 000111-65-9  | 87   |
| 2    |    | Octane                             | 114 | C8H18    | 000111-65-9  | 86   |
| 3    |    | Oxalic acid, isohexyl pentyl ester | 244 | C13H24O4 | 1000309-32-8 | 72   |
| 4    |    | Octane                             | 114 | C8H18    | 000111-65-9  | 72   |
| 5    |    | Decane, 5,6-dimethyl-              | 170 | C12H26   | 001636-43-7  | 59   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW032620\  
Data File : VW015148.D  
Acq On : 26 Mar 2020 14:16  
Operator : SY/VA  
Sample : L2045-02RE  
Misc : 8.25G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
C0AB9RE

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM032520S.M  
Quant Title : VOC Analysis

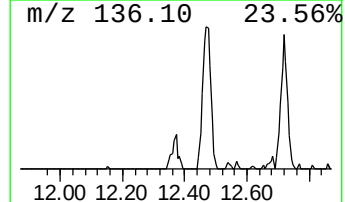
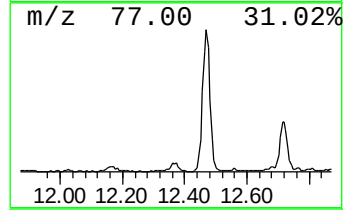
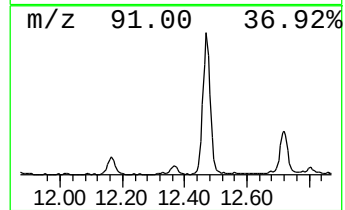
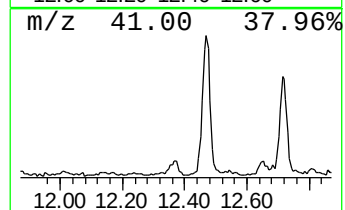
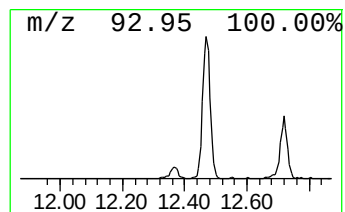
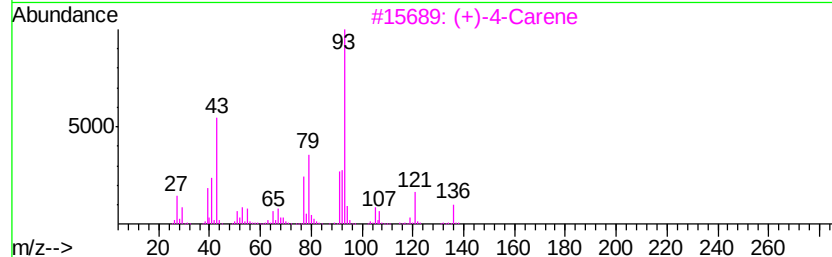
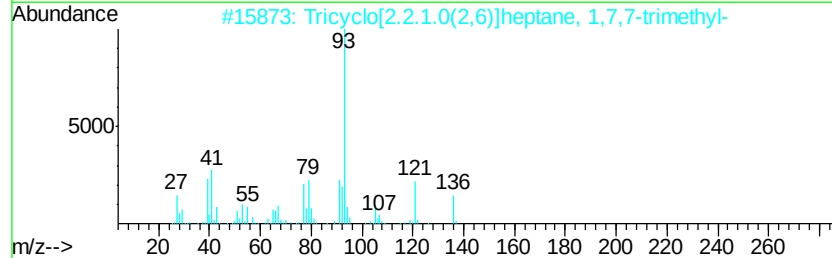
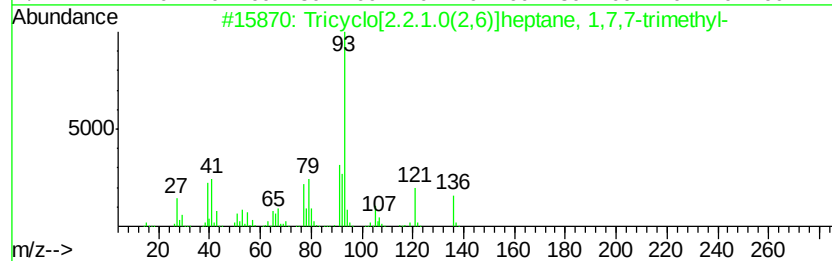
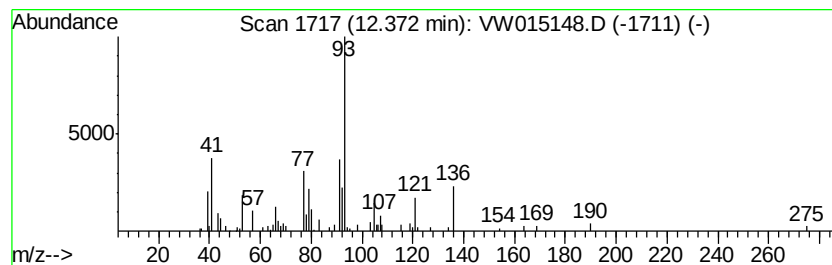
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 12 Tricyclo[2.2.1.0(2,6)]hepta... Concentration Rank 18

| R.T.  | EstConc   | Area  | Relative to ISTD | R.T.  |
|-------|-----------|-------|------------------|-------|
| 12.37 | 2.36 ug/L | 37964 | Chlorobenzene-d5 | 11.63 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Tricyclo[2.2.1.0(2,6)]heptane, 1... | 136 | C10H16  | 000508-32-7 | 90   |
| 2    |    | Tricyclo[2.2.1.0(2,6)]heptane, 1... | 136 | C10H16  | 000508-32-7 | 90   |
| 3    |    | (+)-4-Carene                        | 136 | C10H16  | 029050-33-7 | 87   |
| 4    |    | Tricyclo[2.2.1.0(2,6)]heptane, 1... | 136 | C10H16  | 000508-32-7 | 87   |
| 5    |    | 4-Carene, (1S,3S,6R)-(-)-           | 136 | C10H16  | 005208-50-4 | 86   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW032620\  
Data File : VW015148.D  
Acq On : 26 Mar 2020 14:16  
Operator : SY/VA  
Sample : L2045-02RE  
Misc : 8.25G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
C0AB9RE

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM032520S.M  
Quant Title : VOC Analysis

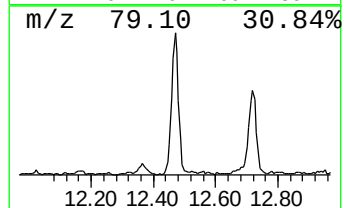
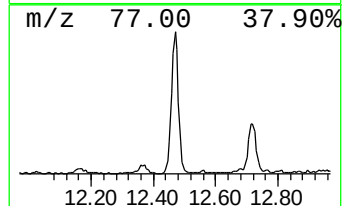
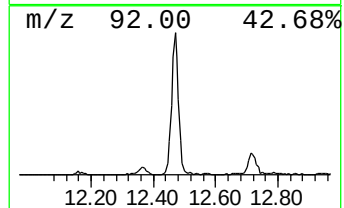
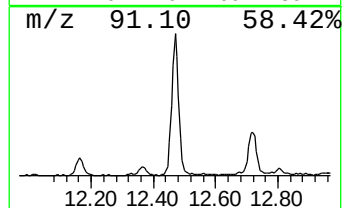
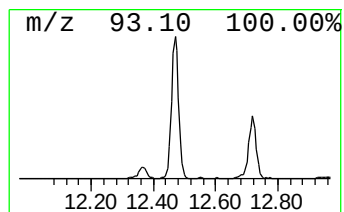
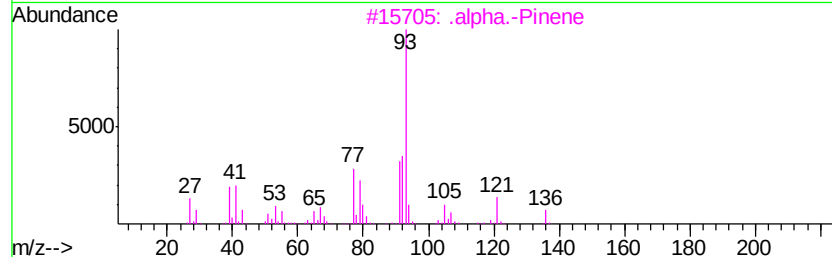
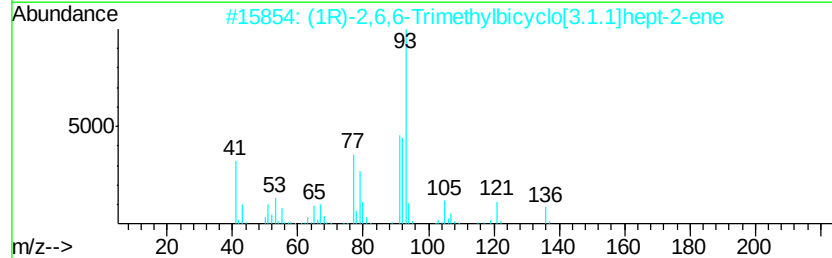
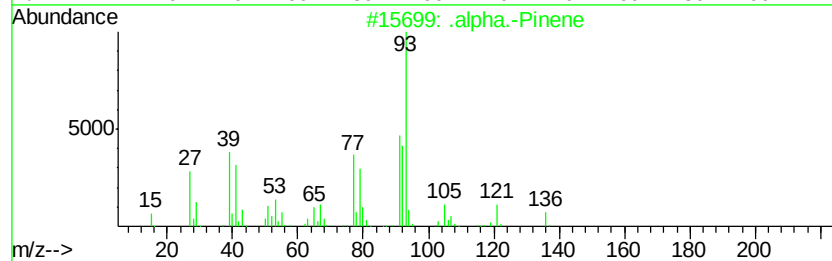
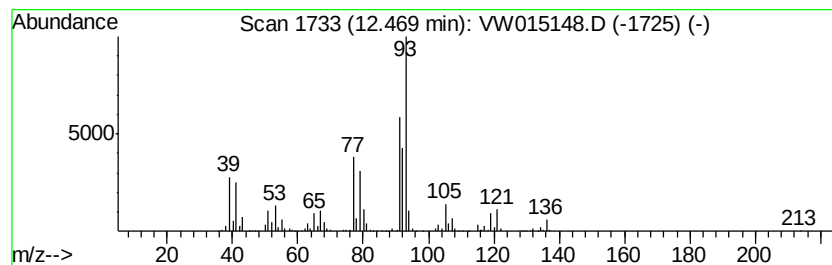
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 13 .alpha.-Pinene Concentration Rank 4

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 12.47 | 24.98 ug/L | 401001 | Chlorobenzene-d5 | 11.63 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | .alpha.-Pinene                      | 136 | C10H16  | 000080-56-8 | 97   |
| 2    |    | (1R)-2,6,6-Trimethylbicyclo[3.1.... | 136 | C10H16  | 007785-70-8 | 96   |
| 3    |    | .alpha.-Pinene                      | 136 | C10H16  | 000080-56-8 | 90   |
| 4    |    | 4-Carene, (1S,3S,6R)-(-)-           | 136 | C10H16  | 005208-50-4 | 90   |
| 5    |    | .gamma.-Terpinene                   | 136 | C10H16  | 000099-85-4 | 81   |





Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW032620\  
Data File : VW015148.D  
Acq On : 26 Mar 2020 14:16  
Operator : SY/VA  
Sample : L2045-02RE  
Misc : 8.25G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

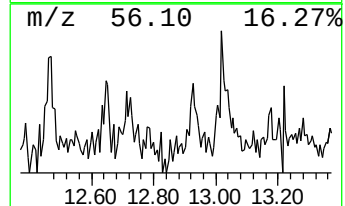
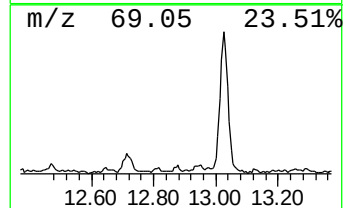
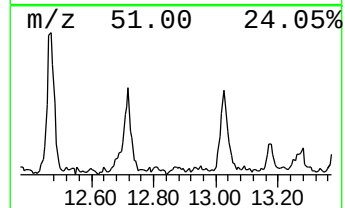
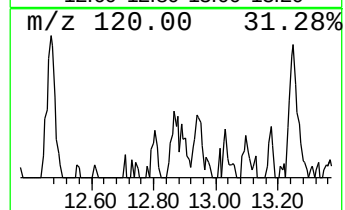
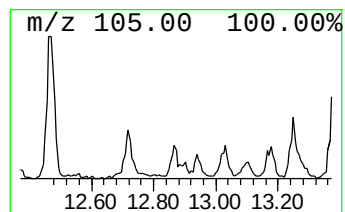
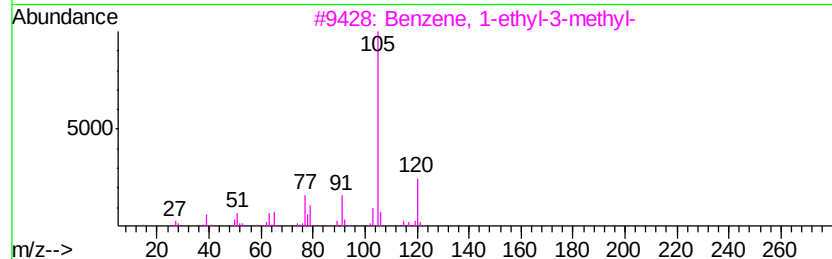
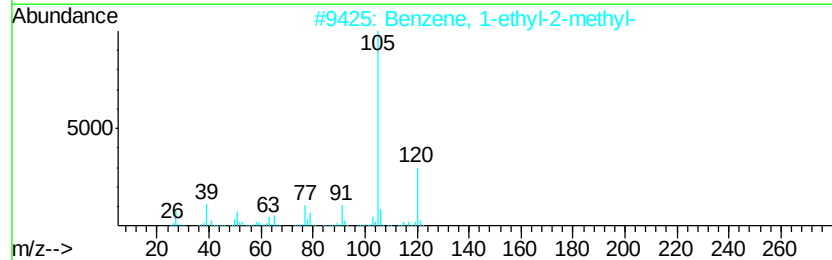
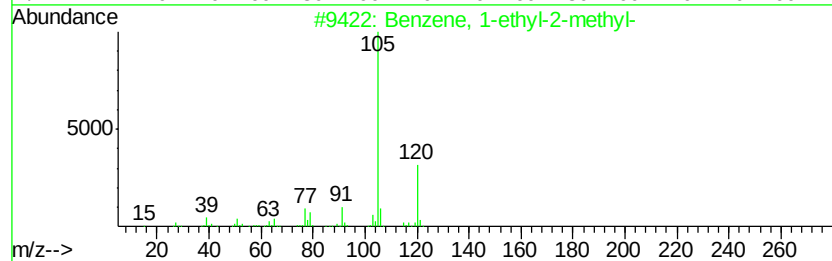
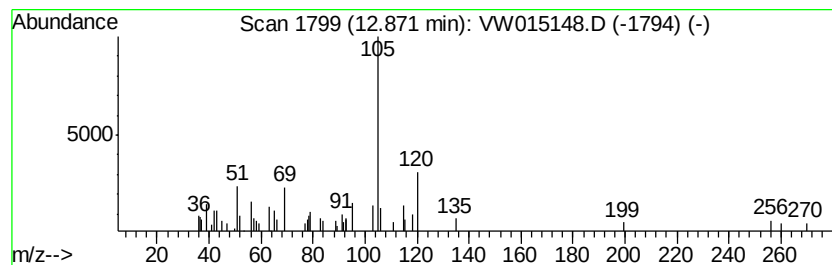
Instrument :  
MSVOA\_W  
ClientSampleId :  
C0AB9RE

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM032520S.M  
Quant Title : VOC Analysis

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

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Peak Number 14 unknown-01 Concentration Rank 22

| R.T.    | EstConc   | Area                       | Relative to ISTD       | R.T.           |
|---------|-----------|----------------------------|------------------------|----------------|
| 12.87   | 1.80 ug/L | 8724                       | 1,4-Dichlorobenzene-d4 | 13.55          |
| Hit# of | 5         | Tentative ID               | MW MolForm             | CAS# Qual      |
| 1       |           | Benzene, 1-ethyl-2-methyl- | 120 C9H12              | 000611-14-3 22 |
| 2       |           | Benzene, 1-ethyl-2-methyl- | 120 C9H12              | 000611-14-3 14 |
| 3       |           | Benzene, 1-ethyl-3-methyl- | 120 C9H12              | 000620-14-4 14 |
| 4       |           | Benzene, 1-ethyl-3-methyl- | 120 C9H12              | 000620-14-4 14 |
| 5       |           | Benzene, 1,2,3-trimethyl-  | 120 C9H12              | 000526-73-8 14 |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW032620\  
Data File : VW015148.D  
Acq On : 26 Mar 2020 14:16  
Operator : SY/VA  
Sample : L2045-02RE  
Misc : 8.25G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
C0AB9RE

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM032520S.M  
Quant Title : VOC Analysis

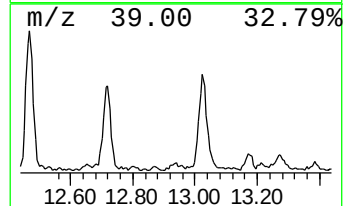
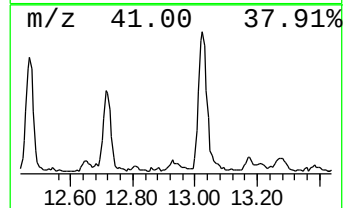
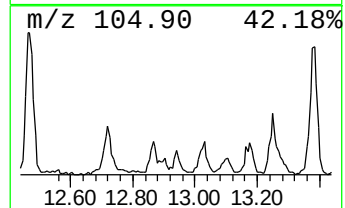
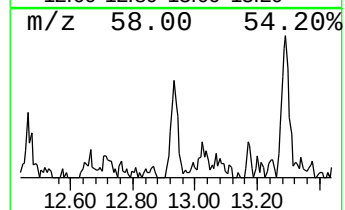
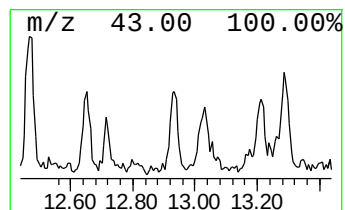
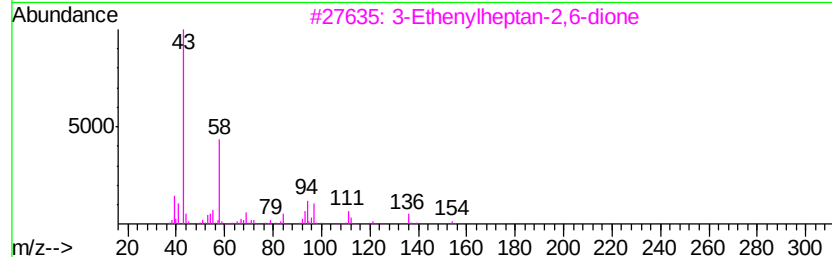
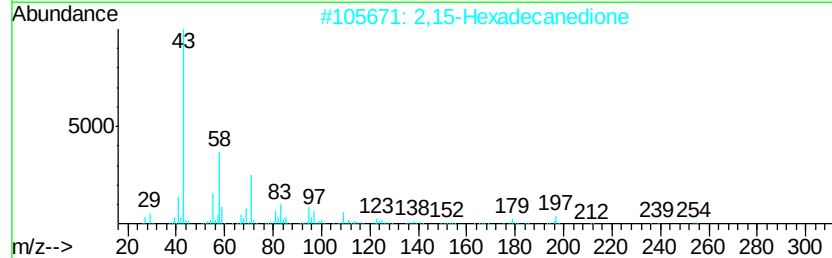
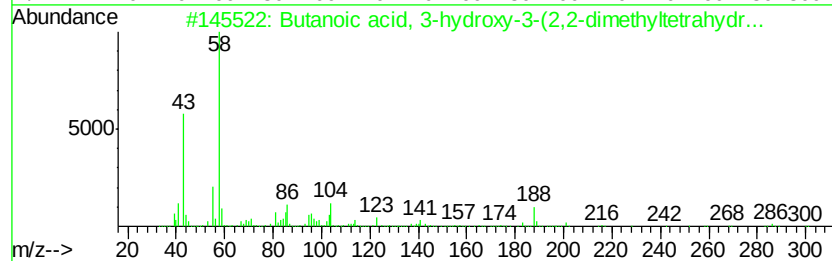
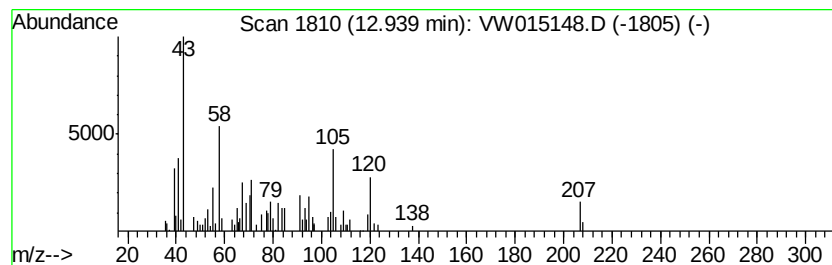
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 15 unknown-02 Concentration Rank 11

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 12.94 | 6.20 ug/L | 30032 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | Butanoic acid, 3-hydroxy-3-(2,2-... | 301 | C16H31N04 | 1000265-23-0 | 32   |
| 2    |    | 2,15-Hexadecanedione                | 254 | C16H30O2  | 018650-13-0  | 32   |
| 3    |    | 3-Ethenylheptan-2,6-dione           | 154 | C9H14O2   | 1000223-48-0 | 16   |
| 4    |    | 4-Cyclooctene-1-carboxaldehyde      | 138 | C9H14O    | 019835-69-9  | 14   |
| 5    |    | 7-Octen-2-one                       | 126 | C8H14O    | 003664-60-6  | 12   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW032620\  
Data File : VW015148.D  
Acq On : 26 Mar 2020 14:16  
Operator : SY/VA  
Sample : L2045-02RE  
Misc : 8.25G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

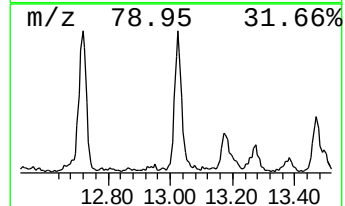
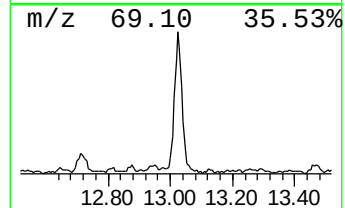
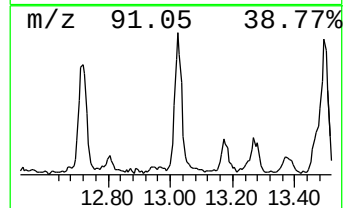
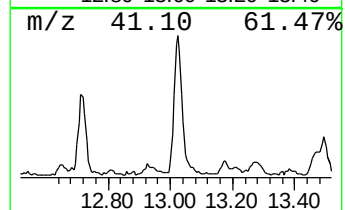
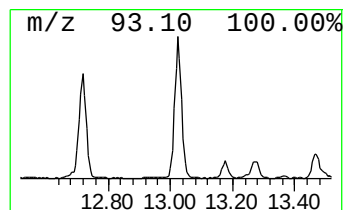
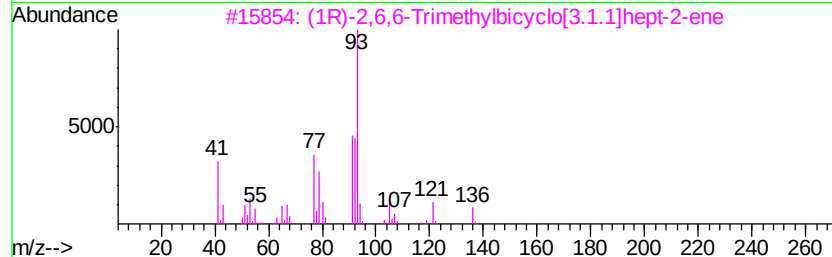
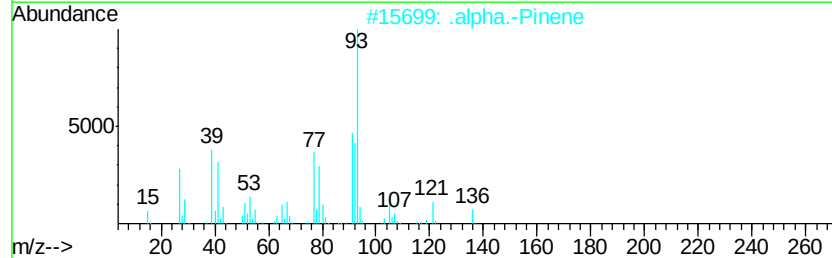
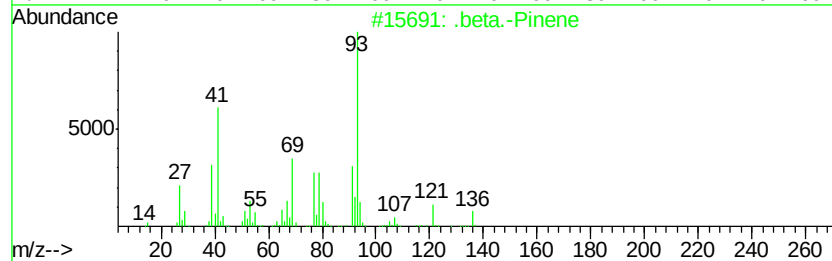
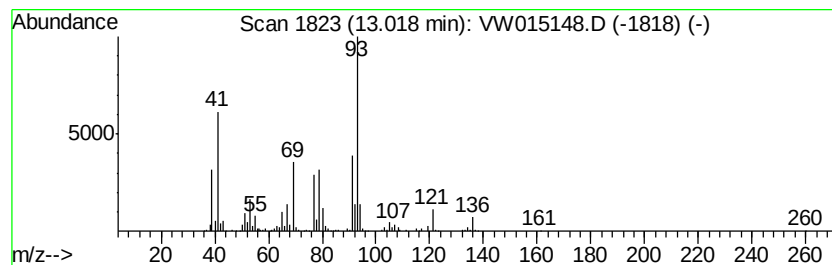
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ClientSampleId :  
C0AB9RE

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM032520S.M  
Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 16 .beta.-Pinene Concentration Rank 1

| R.T.    | EstConc    | Area                                | Relative to ISTD       | R.T.           |
|---------|------------|-------------------------------------|------------------------|----------------|
| 13.02   | 56.56 ug/L | 273805                              | 1,4-Dichlorobenzene-d4 | 13.55          |
| Hit# of | 5          | Tentative ID                        | MW MolForm             | CAS# Qual      |
| 1       |            | .beta.-Pinene                       | 136 C10H16             | 000127-91-3 95 |
| 2       |            | .alpha.-Pinene                      | 136 C10H16             | 000080-56-8 94 |
| 3       |            | (1R)-2,6,6-Trimethylbicyclo[3.1.... | 136 C10H16             | 007785-70-8 94 |
| 4       |            | (1R)-2,6,6-Trimethylbicyclo[3.1.... | 136 C10H16             | 007785-70-8 87 |
| 5       |            | Bicyclo[3.1.1]heptane, 6,6-dimet... | 136 C10H16             | 018172-67-3 87 |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW032620\  
Data File : VW015148.D  
Acq On : 26 Mar 2020 14:16  
Operator : SY/VA  
Sample : L2045-02RE  
Misc : 8.25G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

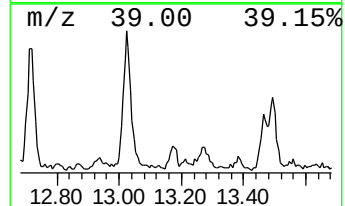
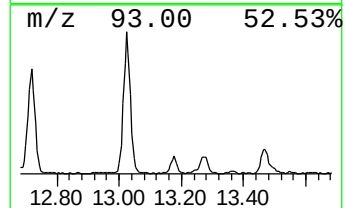
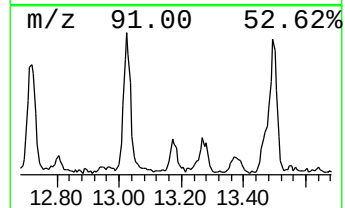
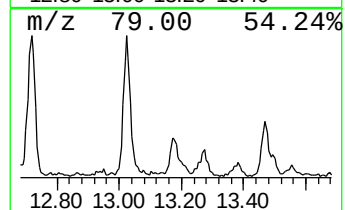
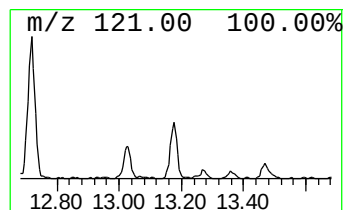
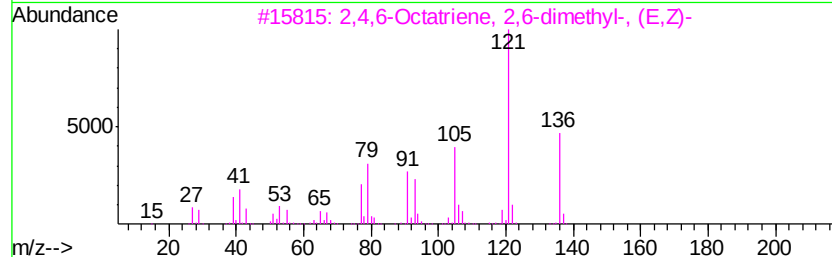
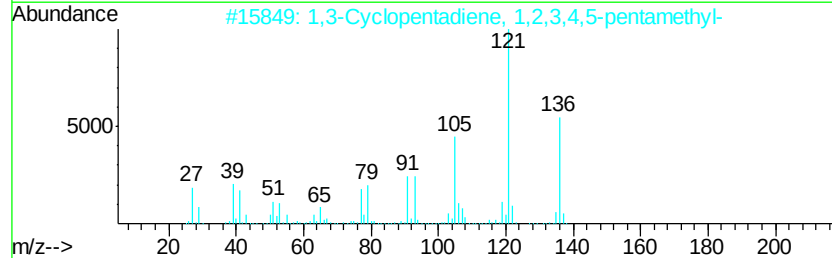
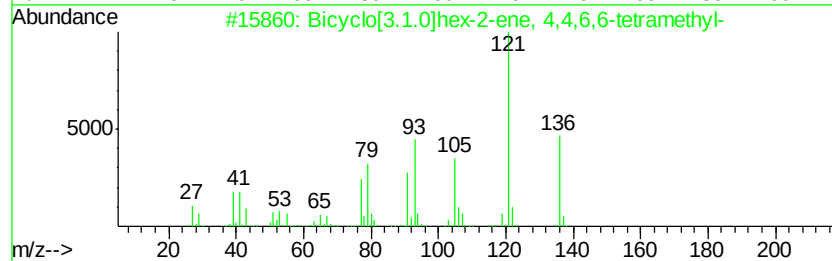
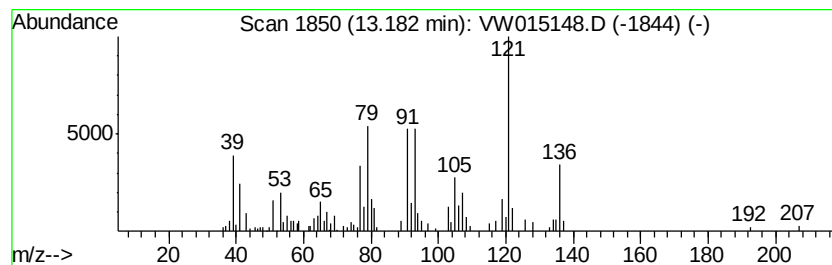
Instrument :  
MSVOA\_W  
ClientSampleId :  
C0AB9RE

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM032520S.M  
Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 17 Bicyclo[3.1.0]hex-2-ene, 4,... Concentration Rank 8

| R.T.    | EstConc   | Area                                | Relative to ISTD       | R.T.           |
|---------|-----------|-------------------------------------|------------------------|----------------|
| 13.18   | 9.92 ug/L | 48038                               | 1,4-Dichlorobenzene-d4 | 13.55          |
| Hit# of | 5         | Tentative ID                        | MW MolForm             | CAS# Qual      |
| 1       |           | Bicyclo[3.1.0]hex-2-ene, 4,4,6,6... | 136 C10H16             | 019487-09-3 93 |
| 2       |           | 1,3-Cyclopentadiene, 1,2,3,4,5-p... | 136 C10H16             | 004045-44-7 90 |
| 3       |           | 2,4,6-Octatriene, 2,6-dimethyl-,... | 136 C10H16             | 007216-56-0 90 |
| 4       |           | 1,4-Hexadiene, 5-methyl-3-(1-met... | 136 C10H16             | 113687-24-4 90 |
| 5       |           | 2,4,6-Octatriene, 2,6-dimethyl-     | 136 C10H16             | 000673-84-7 90 |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW032620\  
 Data File : VW015148.D  
 Acq On : 26 Mar 2020 14:16  
 Operator : SY/VA  
 Sample : L2045-02RE  
 Misc : 8.25G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 C0AB9RE

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM032520S.M  
 Quant Title : VOC Analysis

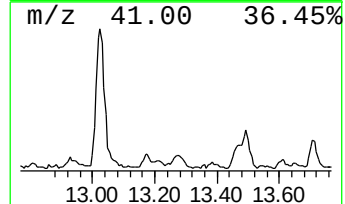
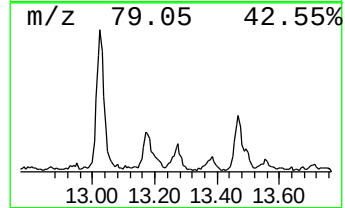
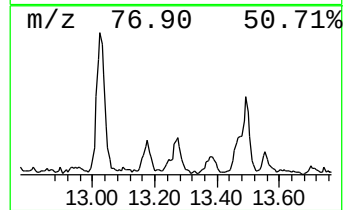
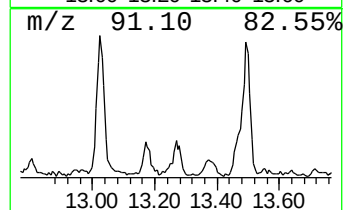
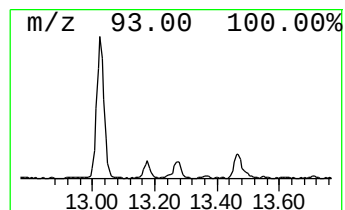
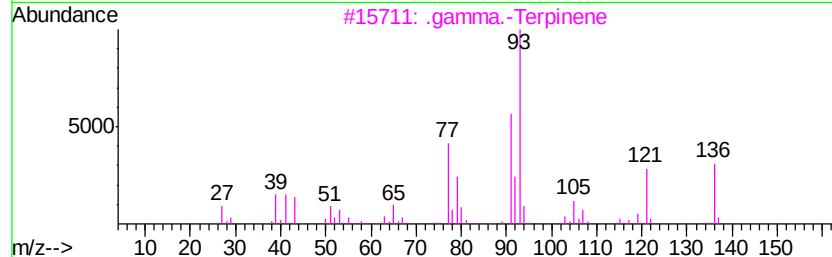
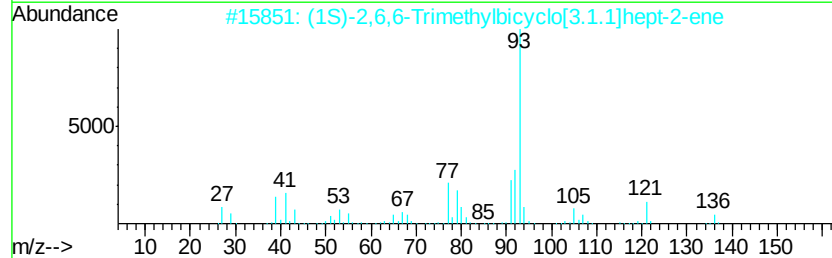
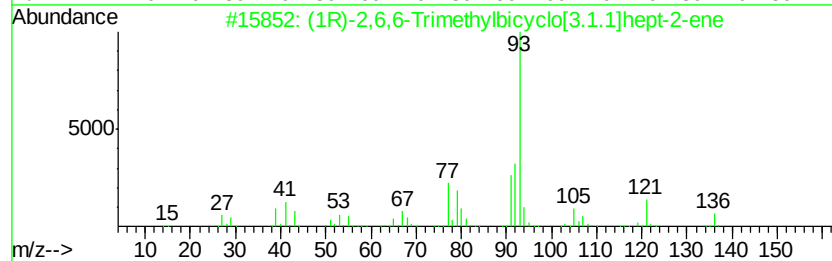
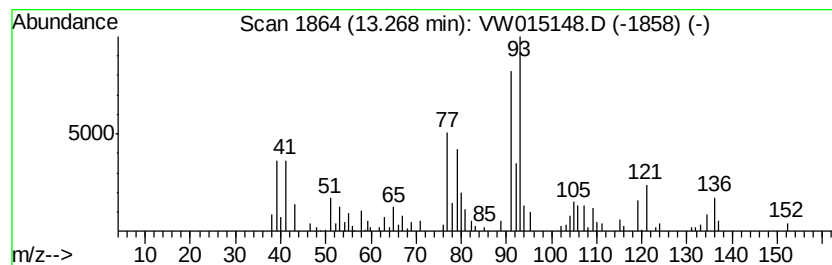
TIC Library : C:\DATABASE\NIST11.L  
 TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
 Peak Number 18 (1R)-2,6,6-Trimethylbicyclo... Concentration Rank 6

| R.T.  | EstConc    | Area  | Relative to ISTD       | R.T.  |
|-------|------------|-------|------------------------|-------|
| 13.27 | 14.24 ug/L | 68960 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# | of | 5 | Tentative ID                                 | MW  | MolForm | CAS#         | Qual |
|------|----|---|----------------------------------------------|-----|---------|--------------|------|
| 1    |    |   | (1R)-2,6,6-Trimethylbicyclo[3.1.1]hept-2-ene | 136 | C10H16  | 007785-70-8  | 87   |
| 2    |    |   | (1S)-2,6,6-Trimethylbicyclo[3.1.1]hept-2-ene | 136 | C10H16  | 007785-26-4  | 83   |
| 3    |    |   | .gamma.-Terpinene                            | 136 | C10H16  | 000099-85-4  | 76   |
| 4    |    |   | Bicyclo[4.2.0]oct-1-ene, 7-exo-e...          | 134 | C10H14  | 1000142-18-2 | 70   |
| 5    |    |   | 4-Carene, (1S,3S,6R)-(-)-                    | 136 | C10H16  | 005208-50-4  | 68   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW032620\  
Data File : VW015148.D  
Acq On : 26 Mar 2020 14:16  
Operator : SY/VA  
Sample : L2045-02RE  
Misc : 8.25G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
C0AB9RE

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM032520S.M  
Quant Title : VOC Analysis

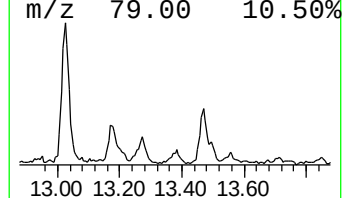
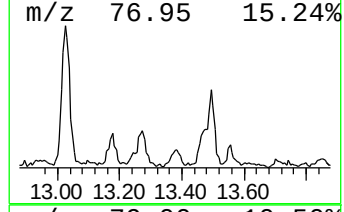
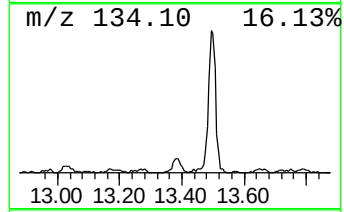
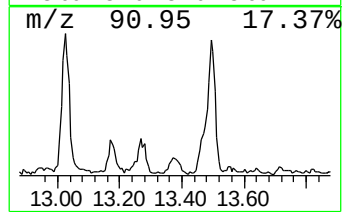
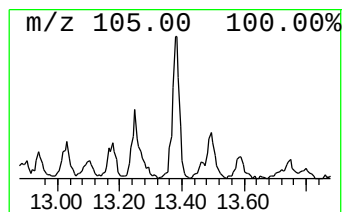
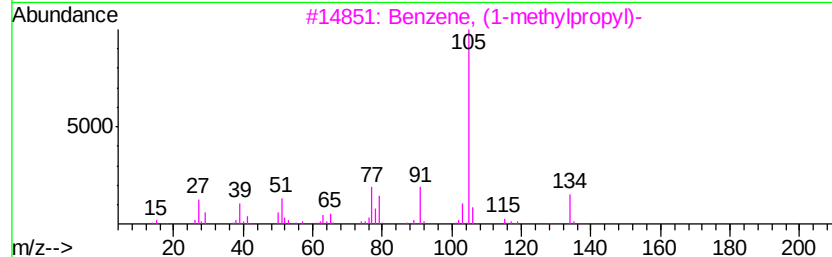
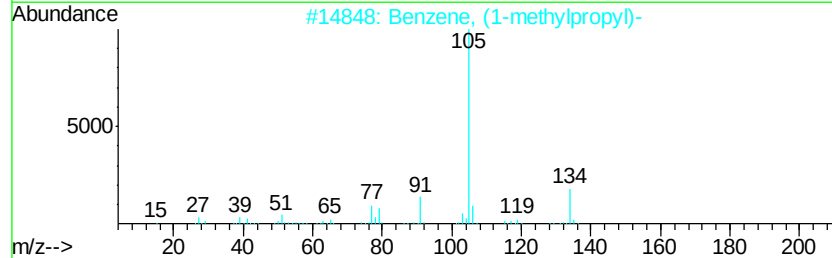
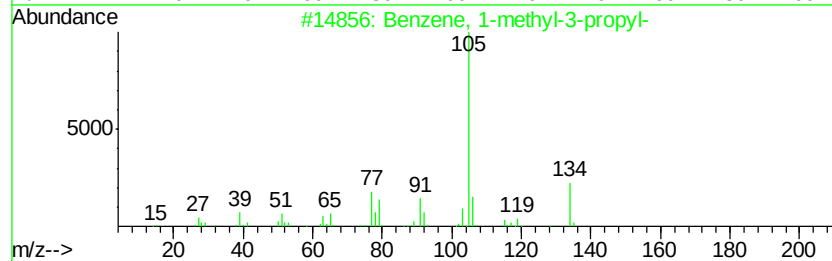
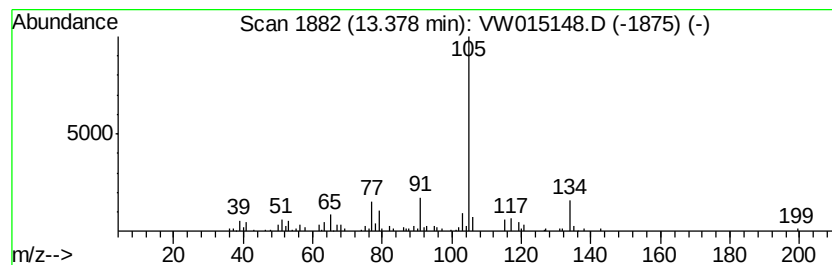
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 19 Benzene, 1-methyl-3-propyl- Concentration Rank 9

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 13.38 | 8.04 ug/L | 38903 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1-methyl-3-propyl-         | 134 | C10H14  | 001074-43-7 | 68   |
| 2    |    | Benzene, (1-methylpropyl)-          | 134 | C10H14  | 000135-98-8 | 64   |
| 3    |    | Benzene, (1-methylpropyl)-          | 134 | C10H14  | 000135-98-8 | 62   |
| 4    |    | Benzeneacetaldehyde, .alpha.-met... | 134 | C9H10O  | 000093-53-8 | 58   |
| 5    |    | Benzene, (1-methylpropyl)-          | 134 | C10H14  | 000135-98-8 | 58   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW032620\  
Data File : VW015148.D  
Acq On : 26 Mar 2020 14:16  
Operator : SY/VA  
Sample : L2045-02RE  
Misc : 8.25G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
C0AB9RE

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM032520S.M  
Quant Title : VOC Analysis

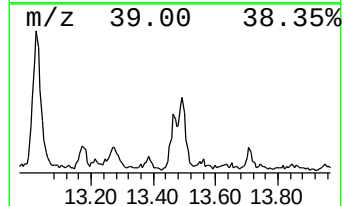
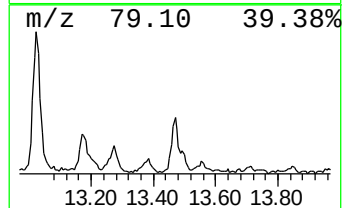
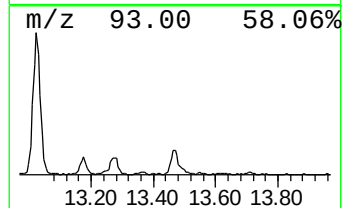
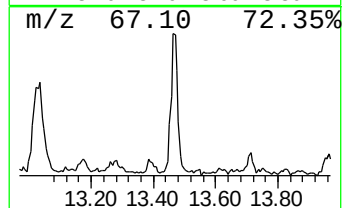
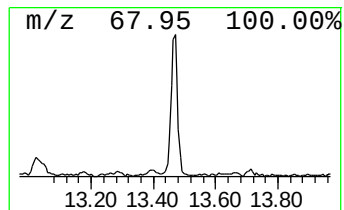
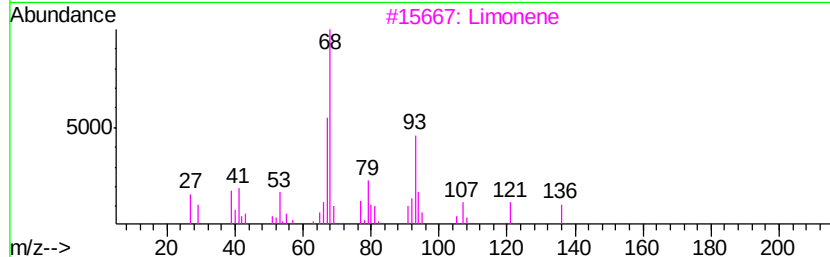
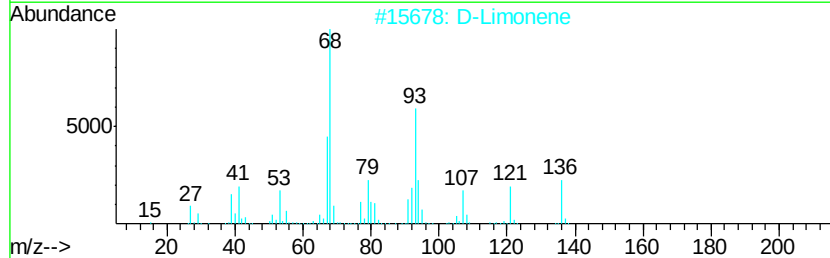
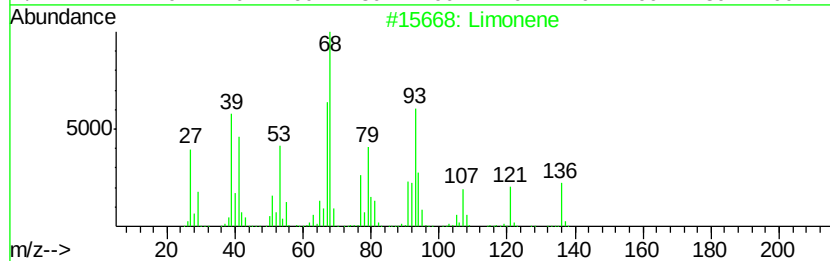
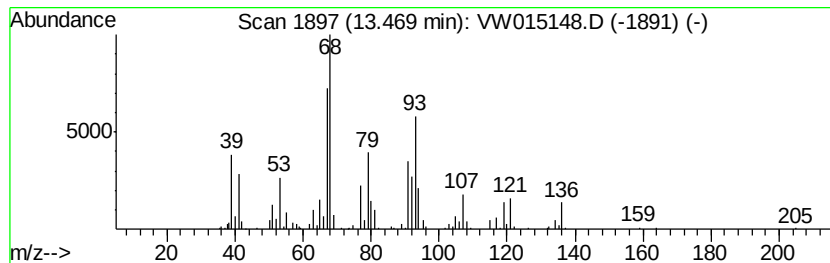
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 20 Limonene Concentration Rank 5

| R.T.  | EstConc    | Area  | Relative to ISTD       | R.T.  |
|-------|------------|-------|------------------------|-------|
| 13.47 | 16.68 ug/L | 80762 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# | of | Tentative ID                      | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------------------|-----|---------|-------------|------|
| 1    | 5  | Limonene                          | 136 | C10H16  | 000138-86-3 | 93   |
| 2    |    | D-Limonene                        | 136 | C10H16  | 005989-27-5 | 87   |
| 3    |    | Limonene                          | 136 | C10H16  | 000138-86-3 | 87   |
| 4    |    | Limonene                          | 136 | C10H16  | 000138-86-3 | 87   |
| 5    |    | 1,5-Cyclooctadiene, 1,5-dimethyl- | 136 | C10H16  | 003760-14-3 | 86   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW032620\  
Data File : VW015148.D  
Acq On : 26 Mar 2020 14:16  
Operator : SY/VA  
Sample : L2045-02RE  
Misc : 8.25G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

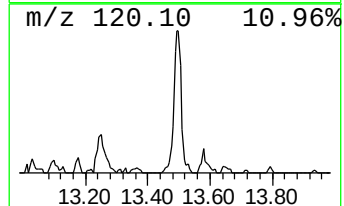
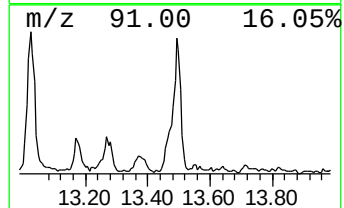
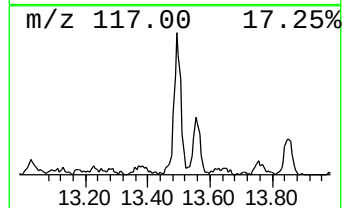
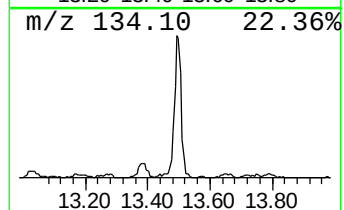
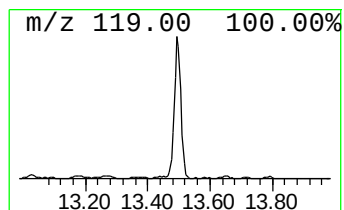
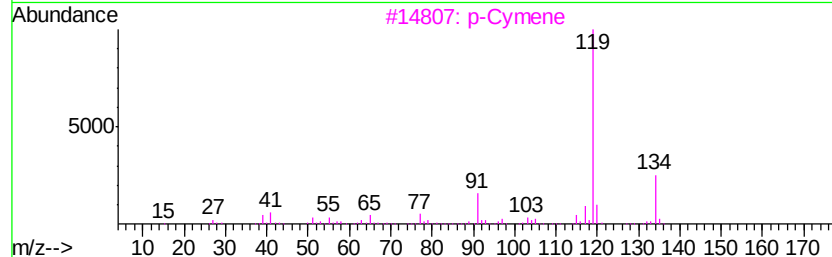
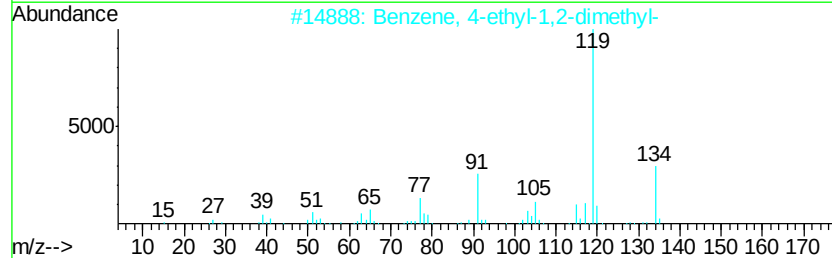
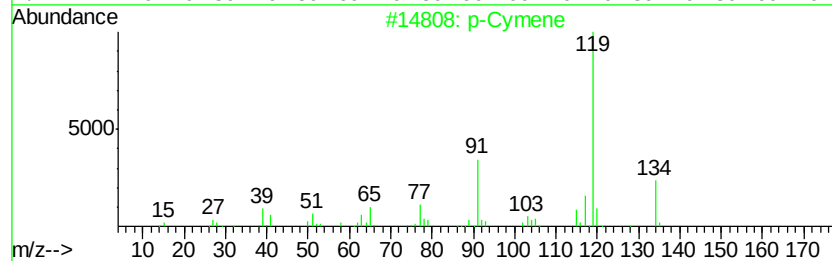
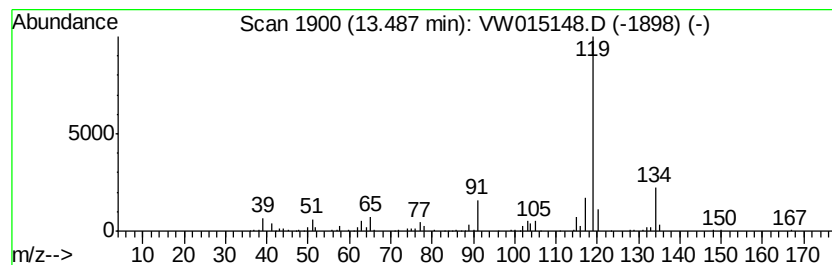
Instrument :  
MSVOA\_W  
ClientSampleId :  
C0AB9RE

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM032520S.M  
Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 21 o-Cymene Concentration Rank 3

| R.T.    | EstConc                             | Area         | Relative to ISTD       | R.T.      |
|---------|-------------------------------------|--------------|------------------------|-----------|
| 13.49   | 35.83 ug/L                          | 173461       | 1,4-Dichlorobenzene-d4 | 13.55     |
| Hit# of | 5                                   | Tentative ID | MW MolForm             | CAS# Qual |
| 1       | p-Cymene                            | 134 C10H14   | 000099-87-6            | 94        |
| 2       | Benzene, 4-ethyl-1,2-dimethyl-      | 134 C10H14   | 000934-80-5            | 91        |
| 3       | p-Cymene                            | 134 C10H14   | 000099-87-6            | 91        |
| 4       | o-Cymene                            | 134 C10H14   | 000527-84-4            | 91        |
| 5       | Benzene, 1-methyl-3-(1-methyleth... | 134 C10H14   | 000535-77-3            | 91        |





Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW032620\  
Data File : VW015148.D  
Acq On : 26 Mar 2020 14:16  
Operator : SY/VA  
Sample : L2045-02RE  
Misc : 8.25G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
C0AB9RE

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM032520S.M  
Quant Title : VOC Analysis

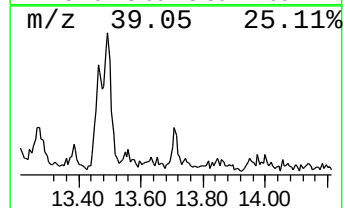
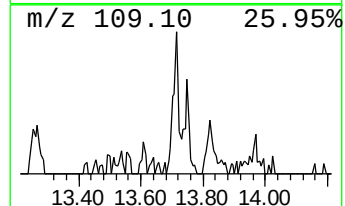
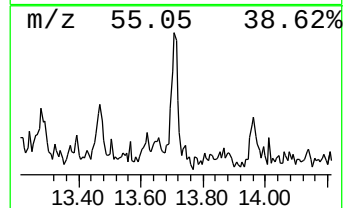
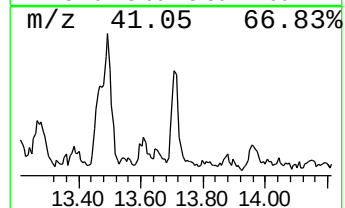
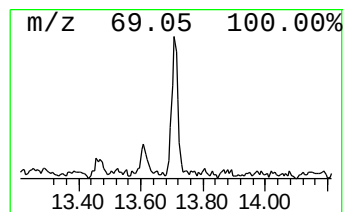
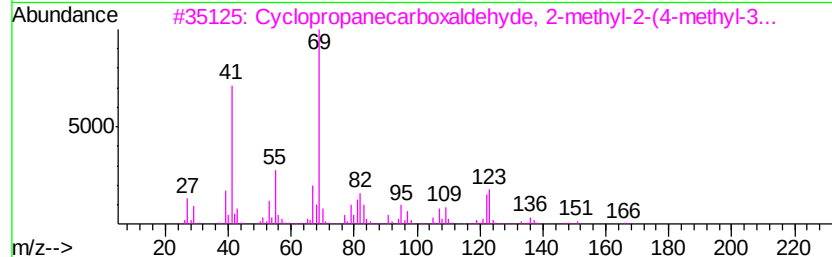
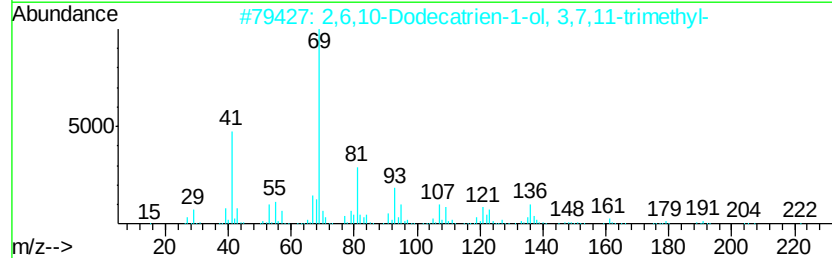
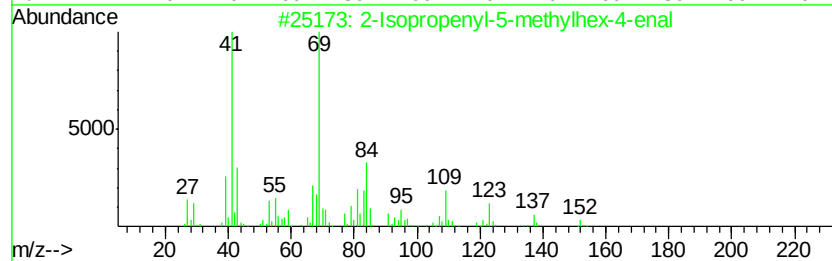
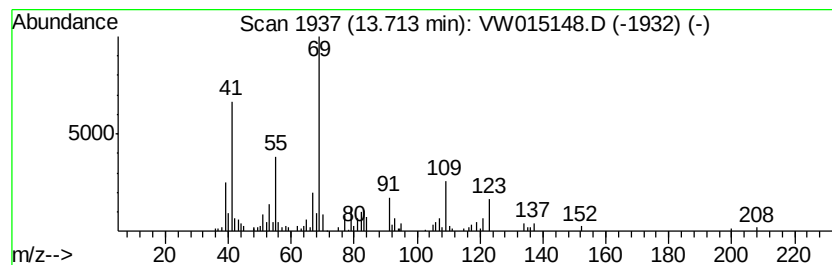
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 22 2-Isopropenyl-5-methylhex-4... Concentration Rank 10

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 13.71 | 7.07 ug/L | 34222 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|-------------------------------------|-----|----------|--------------|------|
| 1    | 5  | 2-Isopropenyl-5-methylhex-4-enal    | 152 | C10H16O  | 075697-98-2  | 64   |
| 2    |    | 2,6,10-Dodecatrien-1-ol, 3,7,11-... | 222 | C15H26O  | 004602-84-0  | 59   |
| 3    |    | Cyclopropanecarboxaldehyde, 2-me... | 166 | C11H18O  | 097231-35-1  | 53   |
| 4    |    | 2,6-Octadienal, 3,7-dimethyl-, (Z)- | 152 | C10H16O  | 000106-26-3  | 53   |
| 5    |    | Succinic acid, di(3-methylbut-3-... | 254 | C14H22O4 | 1000353-45-6 | 53   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW032620\  
Data File : VW015148.D  
Acq On : 26 Mar 2020 14:16  
Operator : SY/VA  
Sample : L2045-02RE  
Misc : 8.25G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

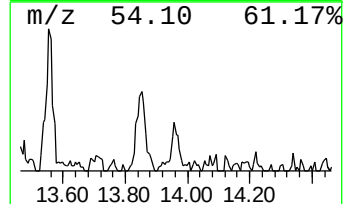
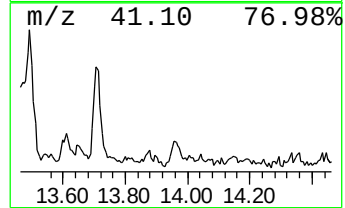
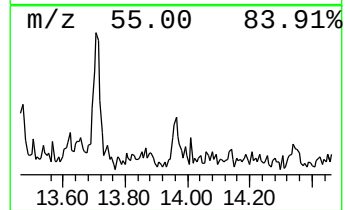
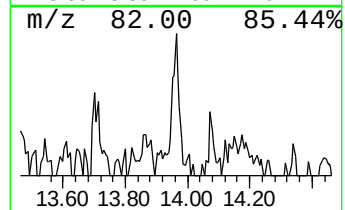
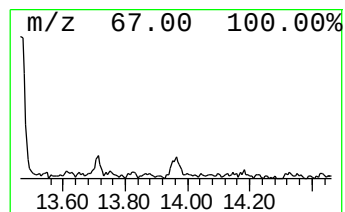
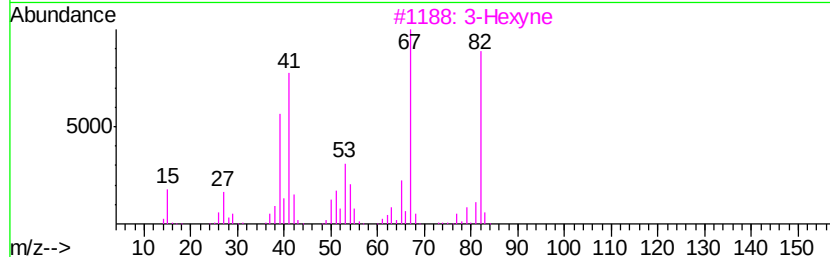
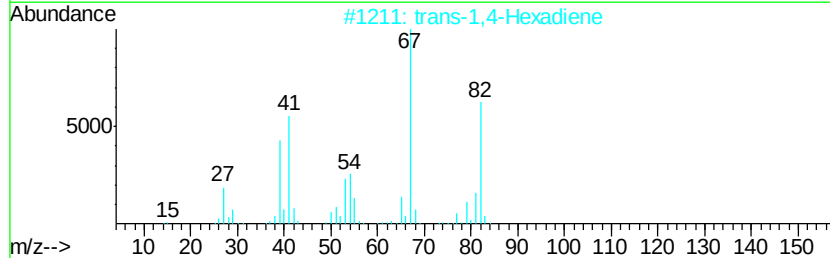
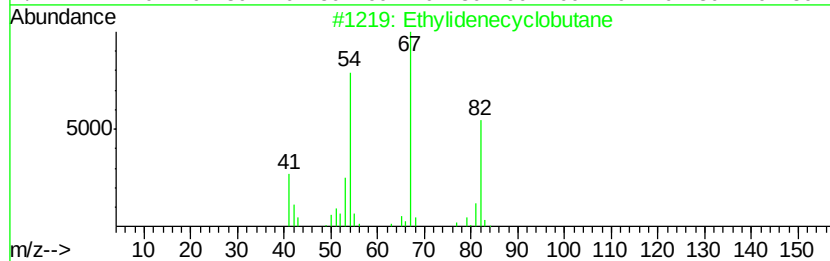
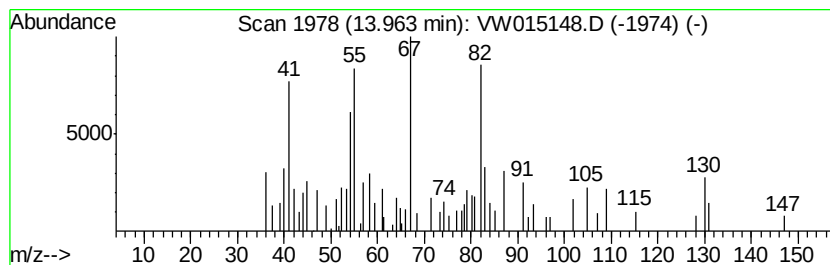
Instrument :  
MSVOA\_W  
ClientSampled :  
C0AB9RE

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM032520S.M  
Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 23 unknown-03 Concentration Rank 17

| R.T.      | EstConc               | Area  | Relative to ISTD       | R.T.        |      |
|-----------|-----------------------|-------|------------------------|-------------|------|
| 13.96     | 2.55 ug/L             | 12337 | 1,4-Dichlorobenzene-d4 | 13.55       |      |
| Hit# of 5 | Tentative ID          | MW    | MolForm                | CAS#        | Qual |
| 1         | Ethylidenecyclobutane | 82    | C6H10                  | 001528-21-8 | 43   |
| 2         | trans-1,4-Hexadiene   | 82    | C6H10                  | 007319-00-8 | 38   |
| 3         | 3-Hexyne              | 82    | C6H10                  | 000928-49-4 | 30   |
| 4         | C2H5CH=CHCH=CH2       | 82    | C6H10                  | 000592-48-3 | 30   |
| 5         | 3-Hexyne              | 82    | C6H10                  | 000928-49-4 | 30   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW032620\  
Data File : VW015148.D  
Acq On : 26 Mar 2020 14:16  
Operator : SY/VA  
Sample : L2045-02RE  
Misc : 8.25G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

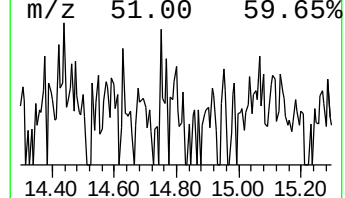
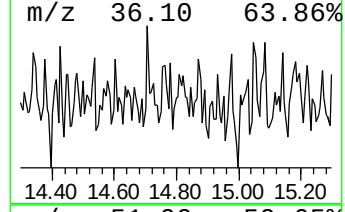
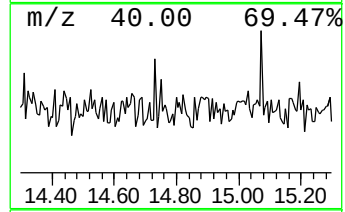
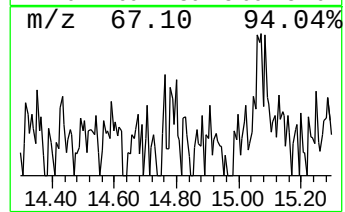
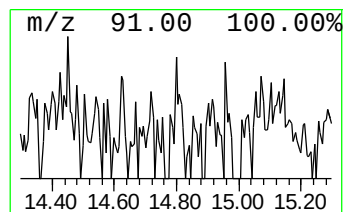
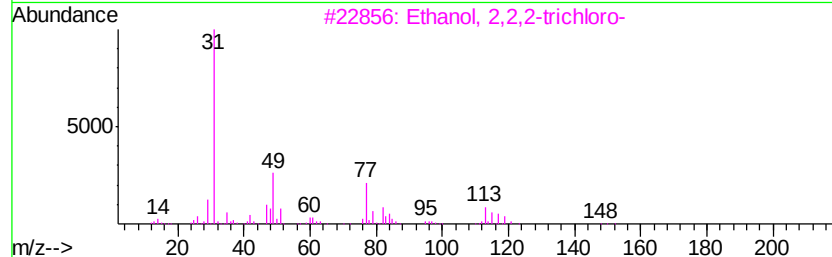
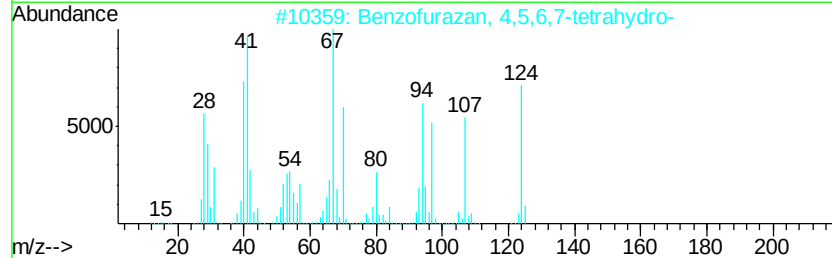
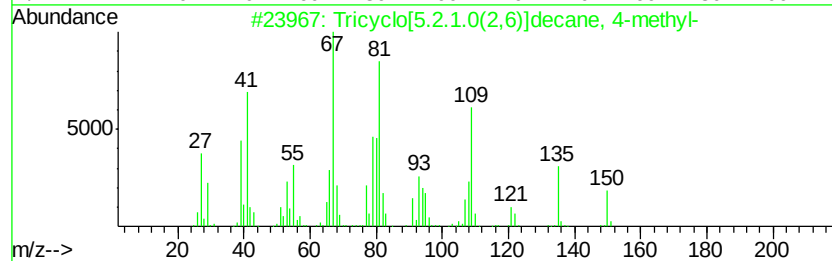
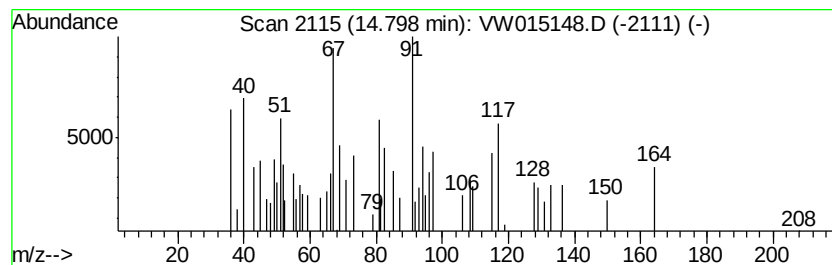
Instrument :  
MSVOA\_W  
ClientSampleId :  
C0AB9RE

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM032520S.M  
Quant Title : VOC Analysis

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

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Peak Number 24 unknown-04 Concentration Rank 26

| R.T.    | EstConc   | Area                                  | Relative to ISTD       | R.T.            |
|---------|-----------|---------------------------------------|------------------------|-----------------|
| 14.80   | 1.33 ug/L | 6459                                  | 1,4-Dichlorobenzene-d4 | 13.55           |
| Hit# of | 5         | Tentative ID                          | MW MolForm             | CAS# Qual       |
| 1       |           | Tricyclo[5.2.1.0(2,6)]decane, 4-...   | 150 C11H18             | 1000150-03-4 30 |
| 2       |           | Benzofurazan, 4,5,6,7-tetrahydro-     | 124 C6H8N2O            | 002258-73-3 25  |
| 3       |           | Ethanol, 2,2,2-trichloro-             | 148 C2H3Cl3O           | 000115-20-8 10  |
| 4       |           | 1H-Cyclopentaf[cl]thiophene, hexah... | 128 C7H12S             | 053907-80-5 10  |
| 5       |           | Bicyclo[2.2.2]octane, 2-chloro-       | 144 C8H13Cl            | 033649-79-5 10  |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW032620\  
Data File : VW015148.D  
Acq On : 26 Mar 2020 14:16  
Operator : SY/VA  
Sample : L2045-02RE  
Misc : 8.25G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
C0AB9RE

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM032520S.M  
Quant Title : VOC Analysis

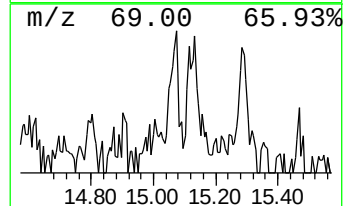
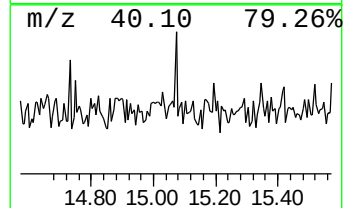
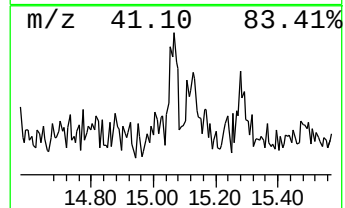
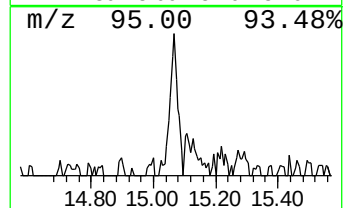
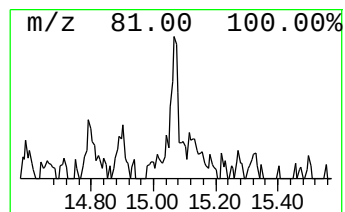
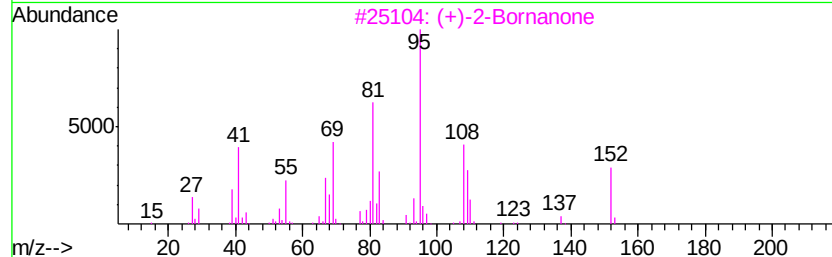
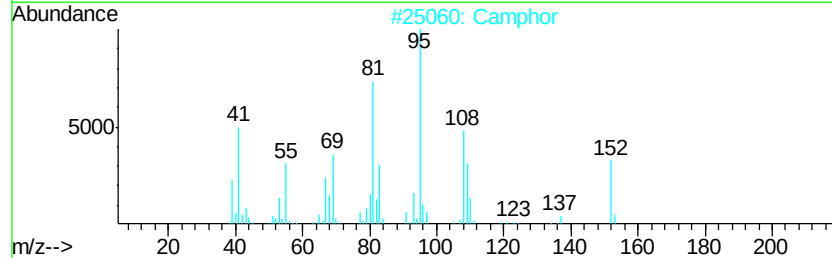
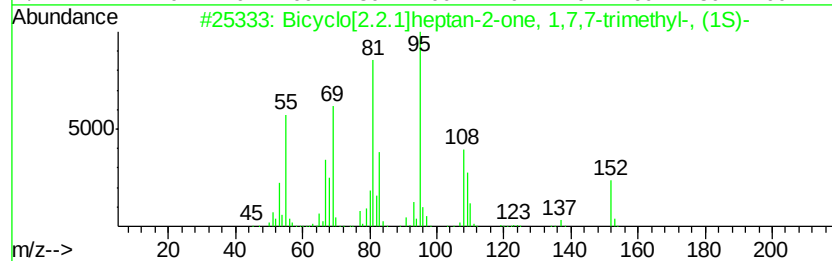
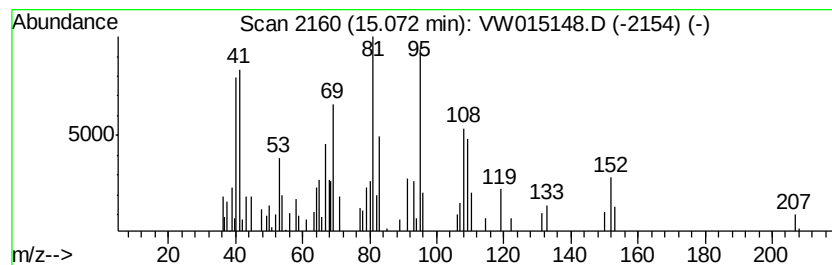
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 25 Bicyclo[2.2.1]heptan-2-one, ... Concentration Rank 16

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 15.07 | 3.19 ug/L | 15421 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Bicyclo[2.2.1]heptan-2-one, 1,7,... | 152 | C10H16O | 000464-48-2 | 81   |
| 2    |    | Camphor                             | 152 | C10H16O | 000076-22-2 | 64   |
| 3    |    | (+)-2-Bornanone                     | 152 | C10H16O | 000464-49-3 | 58   |
| 4    |    | Camphor                             | 152 | C10H16O | 000076-22-2 | 58   |
| 5    |    | Bicyclo[2.2.1]heptan-2-one, 1,7,... | 152 | C10H16O | 000464-48-2 | 58   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW032620\  
Data File : VW015148.D  
Acq On : 26 Mar 2020 14:16  
Operator : SY/VA  
Sample : L2045-02RE  
Misc : 8.25G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

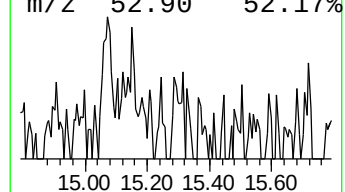
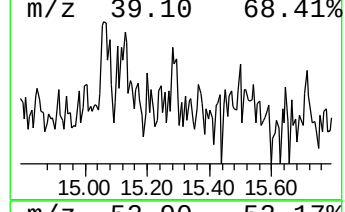
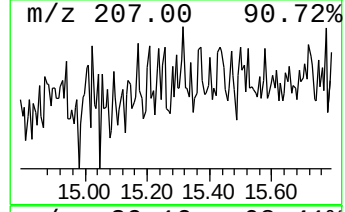
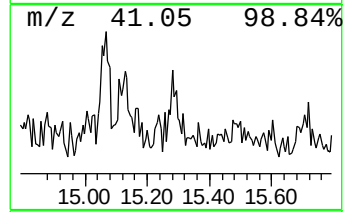
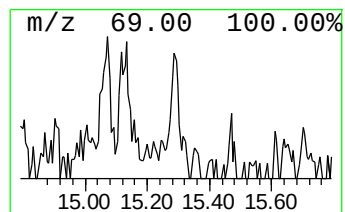
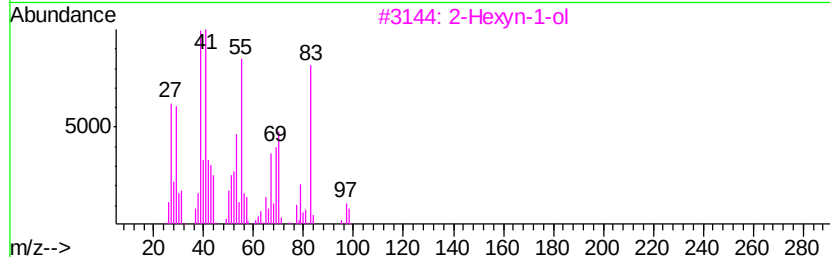
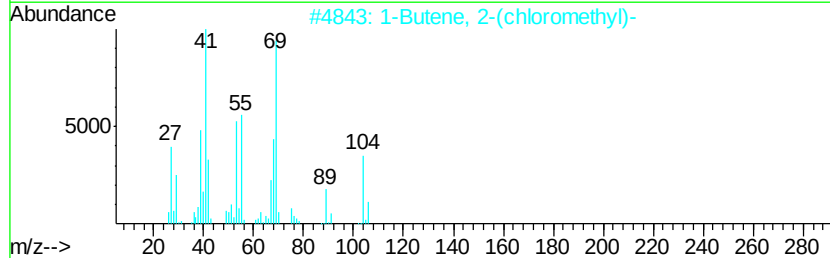
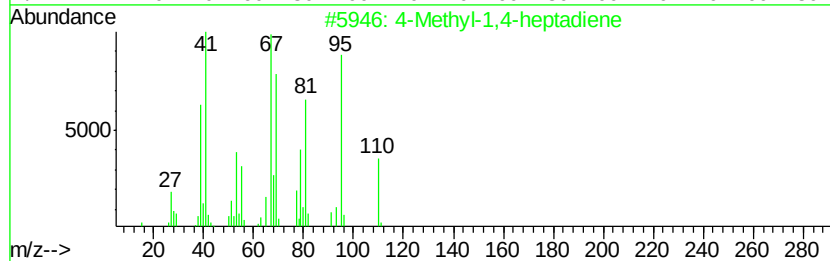
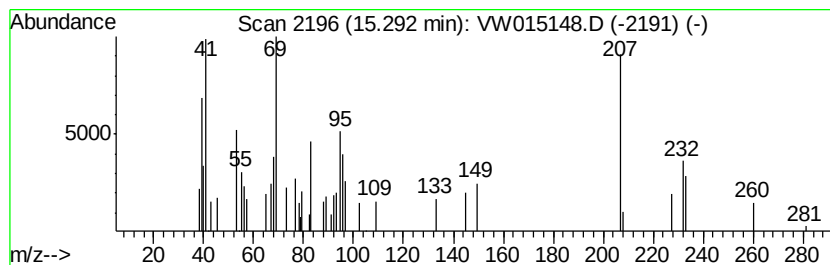
Instrument :  
MSVOA\_W  
ClientSampleId :  
C0AB9RE

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM032520S.M  
Quant Title : VOC Analysis

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

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Peak Number 26 unknown-05 Concentration Rank 21

| R.T.      | EstConc                     | Area | Relative to ISTD       | R.T.        |      |
|-----------|-----------------------------|------|------------------------|-------------|------|
| 15.29     | 1.83 ug/L                   | 8856 | 1,4-Dichlorobenzene-d4 | 13.55       |      |
| Hit# of 5 | Tentative ID                | MW   | MolForm                | CAS#        | Qual |
| 1         | 4-Methyl-1,4-heptadiene     | 110  | C8H14                  | 013857-55-1 | 32   |
| 2         | 1-Butene, 2-(chloromethyl)- | 104  | C5H9Cl                 | 023010-02-8 | 25   |
| 3         | 2-Hexyn-1-ol                | 98   | C6H10O                 | 000764-60-3 | 25   |
| 4         | Cyclopropane, hexylidene-   | 124  | C9H16                  | 091509-06-7 | 25   |
| 5         | 2-Cyclobutene-1-carboxamide | 97   | C5H7NO                 | 053778-54-4 | 16   |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW032620\  
 Data File : VW015148.D  
 Acq On : 26 Mar 2020 14:16  
 Operator : SY/VA  
 Sample : L2045-02RE  
 Misc : 8.25G/10ML/MSVOA\_W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 C0AB9RE

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM032520S.M  
 Quant Title : VOC Analysis

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

| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |        |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|--------|------|
|                      |       |         |       |          | #                     | RT    | Resp   | Conc |
| (DEL) Alkane: Str... | 3.03  | 1.8     | ug/L  | 47817    | 1                     | 8.84  | 677487 | 25.0 |
| (DEL) Alkane: Str... | 3.39  | 11.1    | ug/L  | 299855   | 1                     | 8.84  | 677487 | 25.0 |
| (DEL) Alkane: Cyc... | 3.58  | 1.4     | ug/L  | 37335    | 1                     | 8.84  | 677487 | 25.0 |
| (DEL) Alkane: Cyc... | 3.85  | 1.8     | ug/L  | 49581    | 1                     | 8.84  | 677487 | 25.0 |
| (DEL) Alkane: Str... | 5.94  | 5.5     | ug/L  | 148504   | 1                     | 8.84  | 677487 | 25.0 |
| (DEL) Alkane: Str... | 6.29  | 5.6     | ug/L  | 151699   | 1                     | 8.84  | 677487 | 25.0 |
| n-Hexanesulphonyl... | 7.92  | 1.4     | ug/L  | 38910    | 1                     | 8.84  | 677487 | 25.0 |
| (DEL) Alkane: Str... | 8.15  | 1.9     | ug/L  | 50554    | 1                     | 8.84  | 677487 | 25.0 |
| (DEL) Alkane: Str... | 8.69  | 4.5     | ug/L  | 121799   | 1                     | 8.84  | 677487 | 25.0 |
| (DEL) Alkane: Str... | 10.51 | 48.7    | ug/L  | 782092   | 2                     | 11.63 | 401394 | 25.0 |
| Tricyclo[2.2.1.0(... | 12.37 | 2.4     | ug/L  | 37964    | 2                     | 11.63 | 401394 | 25.0 |
| .alpha.-Pinene       | 12.47 | 25.0    | ug/L  | 401001   | 2                     | 11.63 | 401394 | 25.0 |
| unknown-01           | 12.87 | 1.8     | ug/L  | 8724     | 3                     | 13.55 | 121027 | 25.0 |
| unknown-02           | 12.94 | 6.2     | ug/L  | 30032    | 3                     | 13.55 | 121027 | 25.0 |
| .beta.-Pinene        | 13.02 | 56.6    | ug/L  | 273805   | 3                     | 13.55 | 121027 | 25.0 |
| Bicyclo[3.1.0]hex... | 13.18 | 9.9     | ug/L  | 48038    | 3                     | 13.55 | 121027 | 25.0 |
| (1R)-2,6,6-Trimet... | 13.27 | 14.2    | ug/L  | 68960    | 3                     | 13.55 | 121027 | 25.0 |
| Benzene, 1-methyl... | 13.38 | 8.0     | ug/L  | 38903    | 3                     | 13.55 | 121027 | 25.0 |
| Limonene             | 13.47 | 16.7    | ug/L  | 80762    | 3                     | 13.55 | 121027 | 25.0 |
| o-Cymene             | 13.49 | 35.8    | ug/L  | 173461   | 3                     | 13.55 | 121027 | 25.0 |
| 2-Isopropenyl-5-m... | 13.71 | 7.1     | ug/L  | 34222    | 3                     | 13.55 | 121027 | 25.0 |
| unknown-03           | 13.96 | 2.5     | ug/L  | 12337    | 3                     | 13.55 | 121027 | 25.0 |
| unknown-04           | 14.80 | 1.3     | ug/L  | 6459     | 3                     | 13.55 | 121027 | 25.0 |
| Bicyclo[2.2.1]hep... | 15.07 | 3.2     | ug/L  | 15421    | 3                     | 13.55 | 121027 | 25.0 |
| unknown-05           | 15.29 | 1.8     | ug/L  | 8856     | 3                     | 13.55 | 121027 | 25.0 |