

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW081020\  
 Data File : VW016110.D  
 Acq On : 10 Aug 2020 19:29  
 Operator : SY/VA  
 Sample : L3598-13  
 Misc : 5.82G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 GAY69

## 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\SOM2WLM081020S.M  
 Title : VOC Analysis

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|--------|----------|------------|----------|-----------|-------|-------------|------------|--------------|------------|
| 1      | 1.964    | 7          | 10       | 36        | rVB   | 120021      | 318314     | 23.04%       | 2.710%     |
| 2      | 2.172    | 37         | 44       | 64        | rBV2  | 105940      | 259160     | 18.76%       | 2.206%     |
| 3      | 2.355    | 68         | 74       | 88        | rBV   | 132079      | 338762     | 24.52%       | 2.884%     |
| 4      | 2.891    | 155        | 162      | 174       | rVB   | 44999       | 118165     | 8.55%        | 1.006%     |
| 5      | 3.025    | 176        | 184      | 199       | rBV   | 149406      | 372196     | 26.94%       | 3.169%     |
| 6      | 3.379    | 235        | 242      | 260       | rVB2  | 61571       | 159158     | 11.52%       | 1.355%     |
| 7      | 3.848    | 317        | 319      | 325       | rVB3  | 764         | 1013       | 0.07%        | 0.009%     |
| 8      | 4.007    | 334        | 345      | 360       | rBV   | 118028      | 421167     | 30.49%       | 3.586%     |
| 9      | 4.202    | 372        | 377      | 398       | rVB3  | 9971        | 27549      | 1.99%        | 0.235%     |
| 10     | 4.946    | 479        | 499      | 520       | rBV4  | 52955       | 242766     | 17.57%       | 2.067%     |
| 11     | 5.427    | 564        | 578      | 595       | rBV2  | 26303       | 95240      | 6.89%        | 0.811%     |
| 12     | 5.787    | 631        | 637      | 646       | rVB6  | 896         | 2912       | 0.21%        | 0.025%     |
| 13     | 5.933    | 650        | 661      | 673       | rBV2  | 34112       | 101489     | 7.35%        | 0.864%     |
| 14     | 6.872    | 806        | 815      | 823       | rBV5  | 4353        | 15669      | 1.13%        | 0.133%     |
| 15     | 6.988    | 825        | 834      | 842       | rBV5  | 17524       | 55341      | 4.01%        | 0.471%     |
| 16     | 7.085    | 842        | 850      | 858       | rBV   | 50252       | 137630     | 9.96%        | 1.172%     |
| 17     | 7.262    | 874        | 879      | 888       | rVB2  | 4066        | 9970       | 0.72%        | 0.085%     |
| 18     | 7.543    | 920        | 925      | 927       | rBV4  | 606         | 949        | 0.07%        | 0.008%     |
| 19     | 7.646    | 932        | 942      | 957       | rVB   | 194309      | 485023     | 35.11%       | 4.129%     |
| 20     | 7.927    | 976        | 988      | 999       | rBV5  | 45109       | 147064     | 10.65%       | 1.252%     |
| 21     | 8.030    | 1000       | 1005     | 1016      | rVV3  | 8716        | 22091      | 1.60%        | 0.188%     |
| 22     | 8.158    | 1016       | 1026     | 1033      | rVV2  | 34111       | 77718      | 5.63%        | 0.662%     |
| 23     | 8.274    | 1035       | 1045     | 1062      | rVV3  | 383207      | 1381406    | 100.00%      | 11.761%    |
| 24     | 8.433    | 1063       | 1071     | 1077      | rVV5  | 11604       | 30110      | 2.18%        | 0.256%     |
| 25     | 8.506    | 1077       | 1083     | 1088      | rVV6  | 10566       | 24708      | 1.79%        | 0.210%     |
| 26     | 8.573    | 1089       | 1094     | 1102      | rVV4  | 12929       | 31951      | 2.31%        | 0.272%     |
| 27     | 8.695    | 1106       | 1114     | 1124      | rVB   | 25066       | 50798      | 3.68%        | 0.432%     |
| 28     | 8.841    | 1130       | 1138     | 1152      | rBV   | 400439      | 791392     | 57.29%       | 6.738%     |
| 29     | 9.055    | 1169       | 1173     | 1175      | rBV4  | 590         | 995        | 0.07%        | 0.008%     |
| 30     | 9.109    | 1178       | 1182     | 1193      | rVB7  | 3175        | 7464       | 0.54%        | 0.064%     |
| 31     | 9.274    | 1199       | 1209     | 1215      | rBV   | 257987      | 534478     | 38.69%       | 4.550%     |
| 32     | 9.335    | 1215       | 1219     | 1225      | rVB2  | 57715       | 107962     | 7.82%        | 0.919%     |
| 33     | 9.518    | 1240       | 1249     | 1256      | rBV2  | 10016       | 20545      | 1.49%        | 0.175%     |
| 34     | 9.609    | 1256       | 1264     | 1270      | rBV2  | 15682       | 30489      | 2.21%        | 0.260%     |

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 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
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## 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\SOM2WLM081020S.M  
 Title : VOC Analysis

|    |        |      |      |      |      |        |        |        |        |
|----|--------|------|------|------|------|--------|--------|--------|--------|
| 35 | 9.750  | 1280 | 1287 | 1295 | rVB3 | 13615  | 27243  | 1.97%  | 0.232% |
| 36 | 9.896  | 1305 | 1311 | 1316 | rBV3 | 6101   | 12079  | 0.87%  | 0.103% |
| 37 | 9.957  | 1316 | 1321 | 1328 | rBV2 | 22659  | 45512  | 3.29%  | 0.387% |
| 38 | 10.036 | 1328 | 1334 | 1340 | rVV  | 139208 | 246866 | 17.87% | 2.102% |
| 39 | 10.097 | 1340 | 1344 | 1357 | rVB2 | 24699  | 55486  | 4.02%  | 0.472% |
| 40 | 10.213 | 1357 | 1363 | 1365 | rBV5 | 1212   | 1981   | 0.14%  | 0.017% |
| 41 | 10.243 | 1365 | 1368 | 1373 | rVB3 | 2744   | 4374   | 0.32%  | 0.037% |
| 42 | 10.323 | 1373 | 1381 | 1387 | rBV  | 551331 | 994714 | 72.01% | 8.469% |
| 43 | 10.390 | 1387 | 1392 | 1398 | rVB  | 135546 | 230373 | 16.68% | 1.961% |
| 44 | 10.445 | 1398 | 1401 | 1405 | rBV  | 7490   | 9917   | 0.72%  | 0.084% |
| 45 | 10.506 | 1405 | 1411 | 1417 | rVB5 | 27612  | 63537  | 4.60%  | 0.541% |
| 46 | 10.579 | 1417 | 1423 | 1429 | rBV  | 99854  | 182387 | 13.20% | 1.553% |
| 47 | 10.664 | 1434 | 1437 | 1446 | rVB4 | 15620  | 28368  | 2.05%  | 0.242% |
| 48 | 10.768 | 1448 | 1454 | 1459 | rVB3 | 9445   | 18290  | 1.32%  | 0.156% |
| 49 | 10.853 | 1462 | 1468 | 1473 | rVB3 | 5662   | 10501  | 0.76%  | 0.089% |
| 50 | 10.926 | 1473 | 1480 | 1489 | rBV  | 220404 | 371959 | 26.93% | 3.167% |
| 51 | 11.036 | 1494 | 1498 | 1506 | rVB2 | 9350   | 18078  | 1.31%  | 0.154% |
| 52 | 11.109 | 1506 | 1510 | 1513 | rBV5 | 6886   | 10868  | 0.79%  | 0.093% |
| 53 | 11.146 | 1513 | 1516 | 1517 | rBV2 | 2959   | 3125   | 0.23%  | 0.027% |
| 54 | 11.176 | 1518 | 1521 | 1525 | rVB  | 13531  | 17676  | 1.28%  | 0.150% |
| 55 | 11.286 | 1536 | 1539 | 1542 | rVB4 | 2983   | 3699   | 0.27%  | 0.031% |
| 56 | 11.329 | 1542 | 1546 | 1551 | rVB4 | 9609   | 14231  | 1.03%  | 0.121% |
| 57 | 11.426 | 1551 | 1562 | 1572 | rVB7 | 17056  | 58603  | 4.24%  | 0.499% |
| 58 | 11.511 | 1572 | 1576 | 1581 | rBV  | 9555   | 16128  | 1.17%  | 0.137% |
| 59 | 11.560 | 1581 | 1584 | 1588 | rBV5 | 2327   | 3461   | 0.25%  | 0.029% |
| 60 | 11.633 | 1589 | 1596 | 1605 | rVB  | 507467 | 865410 | 62.65% | 7.368% |
| 61 | 11.731 | 1606 | 1612 | 1620 | rBV  | 76456  | 133318 | 9.65%  | 1.135% |
| 62 | 11.835 | 1621 | 1629 | 1634 | rBV3 | 25859  | 62307  | 4.51%  | 0.530% |
| 63 | 11.914 | 1639 | 1642 | 1648 | rVB3 | 13264  | 21050  | 1.52%  | 0.179% |
| 64 | 11.975 | 1648 | 1652 | 1659 | rVB4 | 9997   | 17393  | 1.26%  | 0.148% |
| 65 | 12.060 | 1663 | 1666 | 1672 | rVB6 | 1414   | 1943   | 0.14%  | 0.017% |
| 66 | 12.133 | 1672 | 1678 | 1680 | rBV2 | 10898  | 17653  | 1.28%  | 0.150% |
| 67 | 12.341 | 1708 | 1712 | 1715 | rBV6 | 7532   | 12753  | 0.92%  | 0.109% |
| 68 | 12.463 | 1728 | 1732 | 1736 | rBV3 | 6938   | 11223  | 0.81%  | 0.096% |
| 69 | 12.566 | 1747 | 1749 | 1752 | rVB3 | 2952   | 3342   | 0.24%  | 0.028% |
| 70 | 12.603 | 1752 | 1755 | 1760 | rBV5 | 3321   | 5558   | 0.40%  | 0.047% |
| 71 | 12.652 | 1760 | 1763 | 1764 | rBV3 | 1693   | 1787   | 0.13%  | 0.015% |

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 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 GAY69

## 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\SOM2WLM081020S.M  
 Title : VOC Analysis

|     |        |      |      |      |       |        |        |        |        |
|-----|--------|------|------|------|-------|--------|--------|--------|--------|
| 72  | 12.694 | 1764 | 1770 | 1777 | rVV   | 268124 | 433992 | 31.42% | 3.695% |
| 73  | 12.804 | 1782 | 1788 | 1793 | rBV2  | 11234  | 18183  | 1.32%  | 0.155% |
| 74  | 12.865 | 1793 | 1798 | 1801 | rBV4  | 9844   | 15756  | 1.14%  | 0.134% |
| 75  | 12.944 | 1806 | 1811 | 1816 | rVB6  | 13957  | 26622  | 1.93%  | 0.227% |
| 76  | 13.048 | 1824 | 1828 | 1829 | rBV3  | 1957   | 2935   | 0.21%  | 0.025% |
| 77  | 13.170 | 1845 | 1848 | 1854 | rBV7  | 2211   | 4875   | 0.35%  | 0.042% |
| 78  | 13.249 | 1856 | 1861 | 1867 | rBV   | 11243  | 20661  | 1.50%  | 0.176% |
| 79  | 13.444 | 1888 | 1893 | 1897 | rBV8  | 5639   | 11491  | 0.83%  | 0.098% |
| 80  | 13.560 | 1905 | 1912 | 1921 | rBV   | 334722 | 544453 | 39.41% | 4.635% |
| 81  | 13.651 | 1923 | 1927 | 1933 | rVB   | 10142  | 15487  | 1.12%  | 0.132% |
| 82  | 13.792 | 1947 | 1950 | 1951 | rBV3  | 2239   | 2684   | 0.19%  | 0.023% |
| 83  | 13.853 | 1952 | 1960 | 1975 | rVB   | 317172 | 545691 | 39.50% | 4.646% |
| 84  | 14.072 | 1993 | 1996 | 2007 | rVB4  | 8317   | 18059  | 1.31%  | 0.154% |
| 85  | 14.261 | 2023 | 2027 | 2033 | rBV8  | 2641   | 4342   | 0.31%  | 0.037% |
| 86  | 14.328 | 2033 | 2038 | 2042 | rBV5  | 3724   | 7197   | 0.52%  | 0.061% |
| 87  | 14.383 | 2044 | 2047 | 2050 | rBV4  | 2844   | 4074   | 0.29%  | 0.035% |
| 88  | 14.456 | 2057 | 2059 | 2064 | rVB4  | 2942   | 3251   | 0.24%  | 0.028% |
| 89  | 14.529 | 2064 | 2071 | 2080 | rBV10 | 4309   | 11351  | 0.82%  | 0.097% |
| 90  | 14.791 | 2111 | 2114 | 2116 | rBV4  | 2376   | 2450   | 0.18%  | 0.021% |
| 91  | 14.956 | 2139 | 2141 | 2146 | rVB6  | 3148   | 3842   | 0.28%  | 0.033% |
| 92  | 15.066 | 2155 | 2159 | 2165 | rBV7  | 1662   | 3002   | 0.22%  | 0.026% |
| 93  | 15.133 | 2168 | 2170 | 2174 | rBV4  | 1068   | 1091   | 0.08%  | 0.009% |
| 94  | 15.371 | 2205 | 2209 | 2211 | rBV2  | 2361   | 3167   | 0.23%  | 0.027% |
| 95  | 15.468 | 2223 | 2225 | 2226 | rBV2  | 1006   | 1019   | 0.07%  | 0.009% |
| 96  | 15.492 | 2226 | 2229 | 2234 | rVB2  | 2993   | 5127   | 0.37%  | 0.044% |
| 97  | 15.797 | 2275 | 2279 | 2286 | rVB8  | 2044   | 4181   | 0.30%  | 0.036% |
| 98  | 15.870 | 2286 | 2291 | 2296 | rBV7  | 1309   | 3052   | 0.22%  | 0.026% |
| 99  | 15.968 | 2302 | 2307 | 2309 | rBV5  | 996    | 1575   | 0.11%  | 0.013% |
| 100 | 16.376 | 2369 | 2374 | 2378 | rBV5  | 705    | 1258   | 0.09%  | 0.011% |

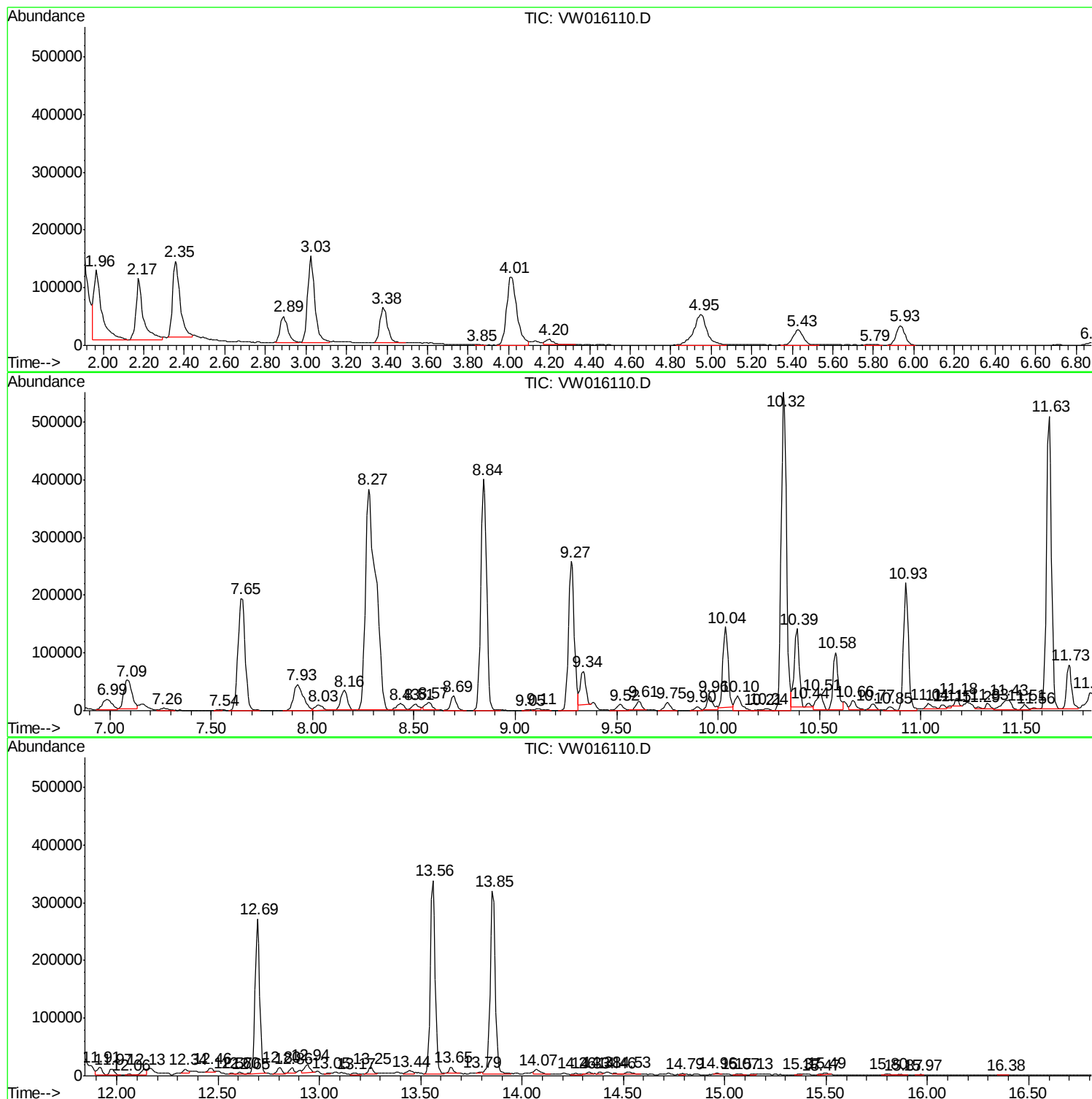
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM081020S.M  
Quant Title : VOC Analysis

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



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW081020\  
Data File : VW016110.D  
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM081020S.M  
Quant Title : VOC Analysis

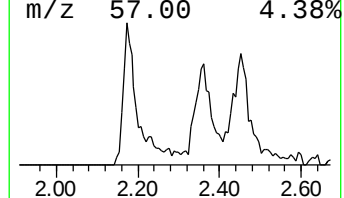
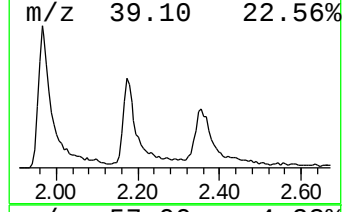
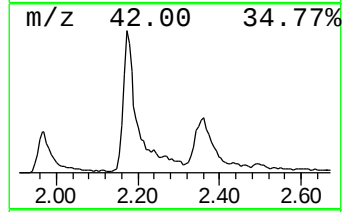
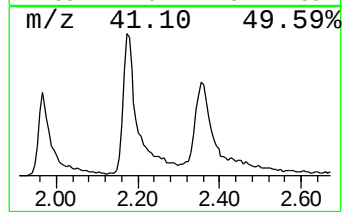
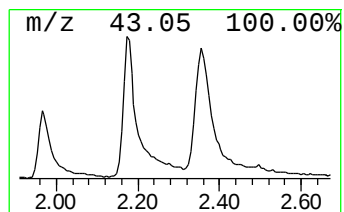
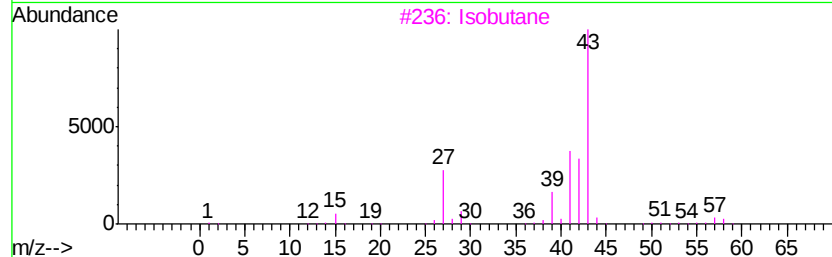
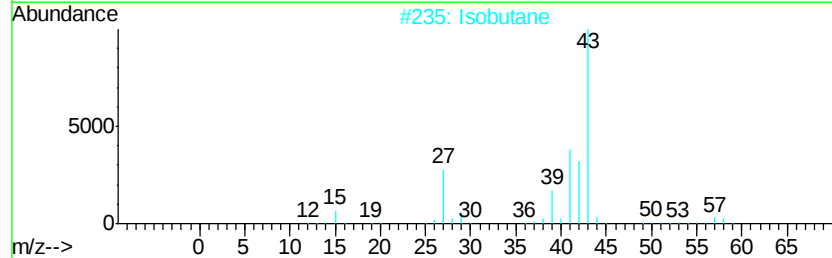
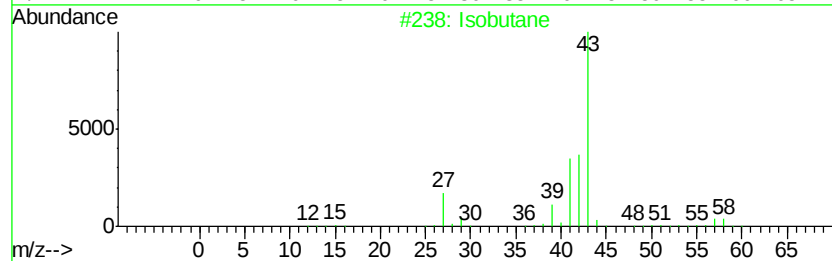
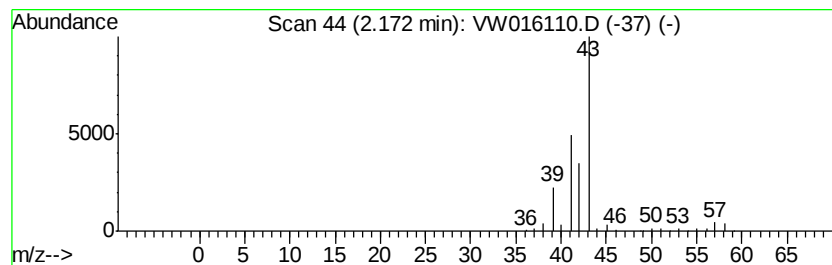
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 (DEL) Alkane: Straight-Chai... Concentration Rank 3

| R.T. | EstConc   | Area   | Relative to ISTD    | R.T. |
|------|-----------|--------|---------------------|------|
| 2.17 | 8.19 ug/L | 259160 | 1,4-Difluorobenzene | 8.84 |

| Hit# | of | Tentative ID      | MW | MolForm | CAS#        | Qual |
|------|----|-------------------|----|---------|-------------|------|
| 1    | 5  | Isobutane         | 58 | C4H10   | 000075-28-5 | 64   |
| 2    |    | Isobutane         | 58 | C4H10   | 000075-28-5 | 64   |
| 3    |    | Isobutane         | 58 | C4H10   | 000075-28-5 | 64   |
| 4    |    | Isobutane         | 58 | C4H10   | 000075-28-5 | 50   |
| 5    |    | Propane, 2-nitro- | 89 | C3H7NO2 | 000079-46-9 | 9    |



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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM081020S.M  
Quant Title : VOC Analysis

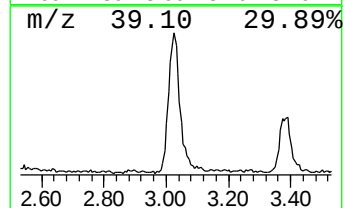
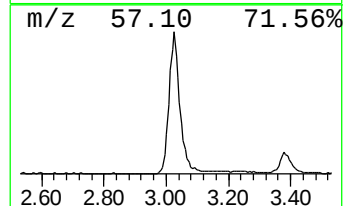
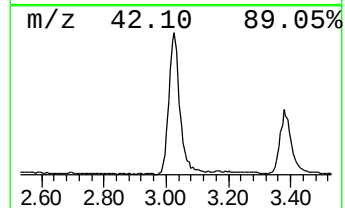
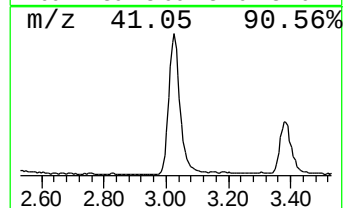
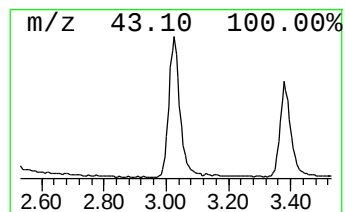
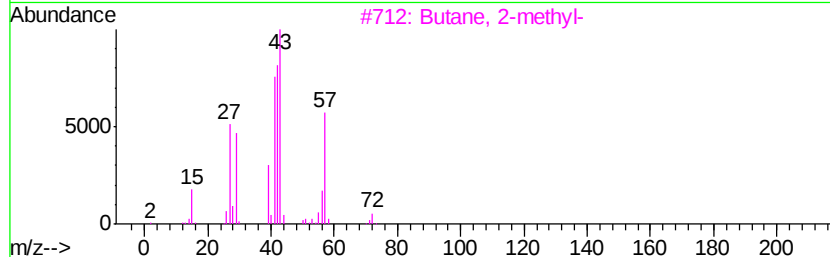
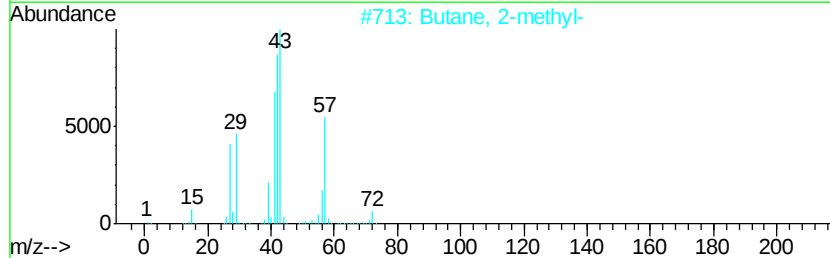
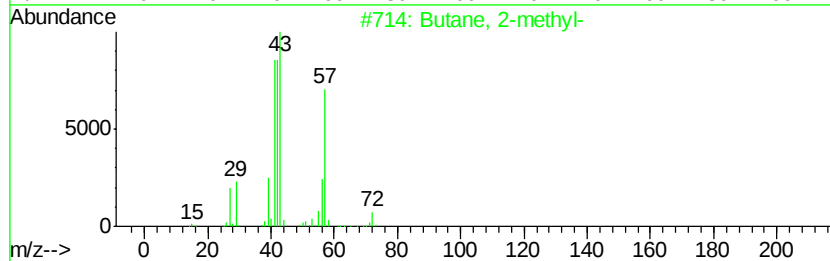
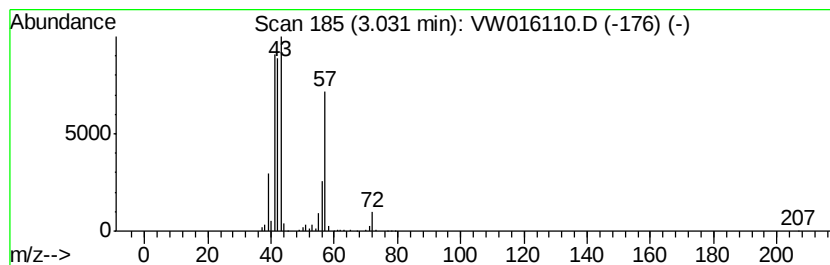
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 (DEL) Alkane: Straight-Chai... Concentration Rank 1

| R.T. | EstConc    | Area   | Relative to ISTD    | R.T. |
|------|------------|--------|---------------------|------|
| 3.03 | 11.76 ug/L | 372196 | 1,4-Difluorobenzene | 8.84 |

| Hit# | of | Tentative ID      | MW | MolForm | CAS#        | Qual |
|------|----|-------------------|----|---------|-------------|------|
| 1    | 5  | Butane, 2-methyl- | 72 | C5H12   | 000078-78-4 | 91   |
| 2    |    | Butane, 2-methyl- | 72 | C5H12   | 000078-78-4 | 91   |
| 3    |    | Butane, 2-methyl- | 72 | C5H12   | 000078-78-4 | 80   |
| 4    |    | 3-Buten-1-ol      | 72 | C4H8O   | 000627-27-0 | 38   |
| 5    |    | Pentane           | 72 | C5H12   | 000109-66-0 | 33   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW081020\  
Data File : VW016110.D  
Acq On : 10 Aug 2020 19:29  
Operator : SY/VA  
Sample : L3598-13  
Misc : 5.82G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampled :  
GAY69

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM081020S.M  
Quant Title : VOC Analysis

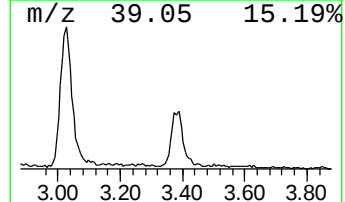
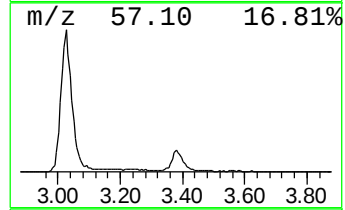
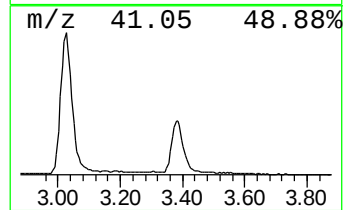
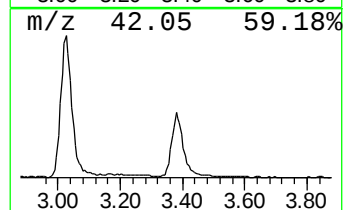
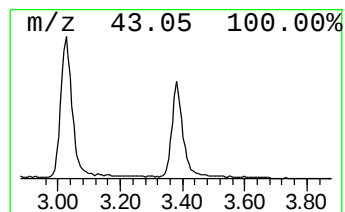
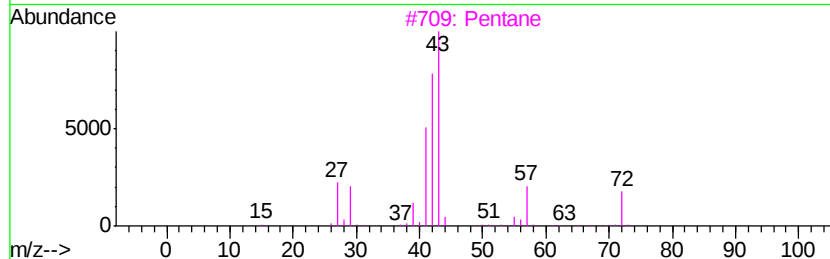
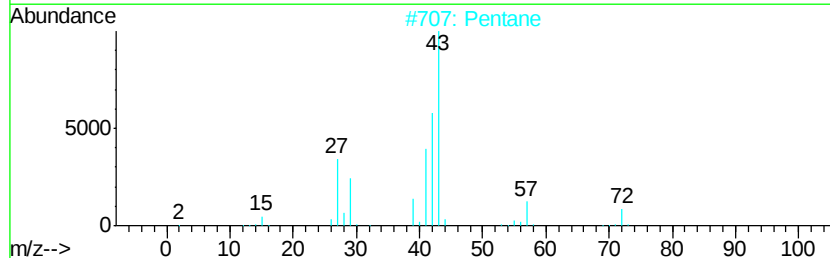
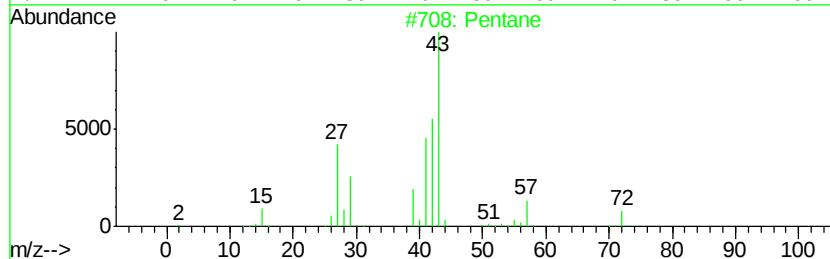
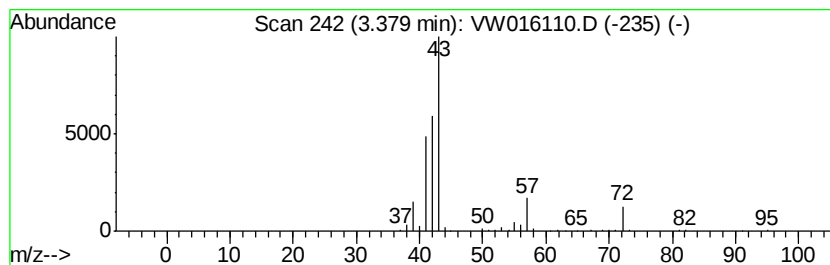
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 (DEL) Alkane: Straight-Chai... Concentration Rank 5

| R.T. | EstConc   | Area   | Relative to ISTD    | R.T. |
|------|-----------|--------|---------------------|------|
| 3.38 | 5.03 ug/L | 159158 | 1,4-Difluorobenzene | 8.84 |

| Hit# of | 5                     | Tentative ID | MW | MolForm | CAS#        | Qual |
|---------|-----------------------|--------------|----|---------|-------------|------|
| 1       | Pentane               |              | 72 | C5H12   | 000109-66-0 | 86   |
| 2       | Pentane               |              | 72 | C5H12   | 000109-66-0 | 86   |
| 3       | Pentane               |              | 72 | C5H12   | 000109-66-0 | 64   |
| 4       | Pentane               |              | 72 | C5H12   | 000109-66-0 | 52   |
| 5       | 1-Propanol, 2-methyl- |              | 74 | C4H10O  | 000078-83-1 | 36   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW081020\  
Data File : VW016110.D  
Acq On : 10 Aug 2020 19:29  
Operator : SY/VA  
Sample : L3598-13  
Misc : 5.82G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
GAY69

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM081020S.M  
Quant Title : VOC Analysis

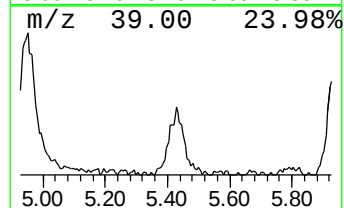
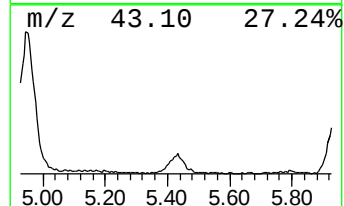
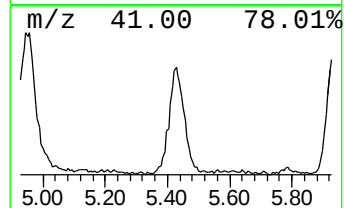
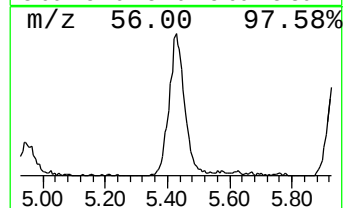
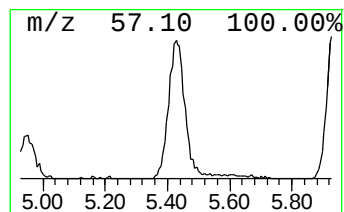
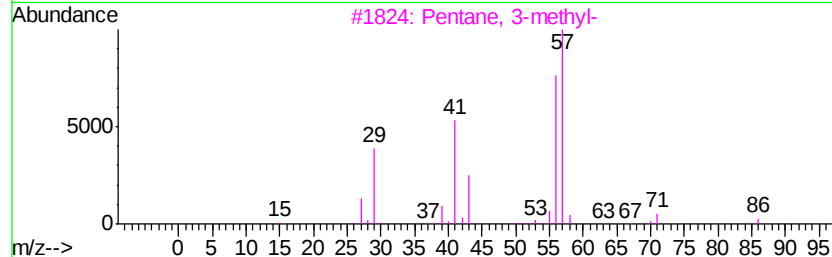
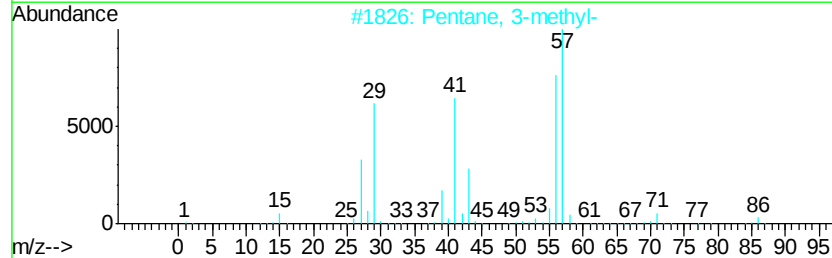
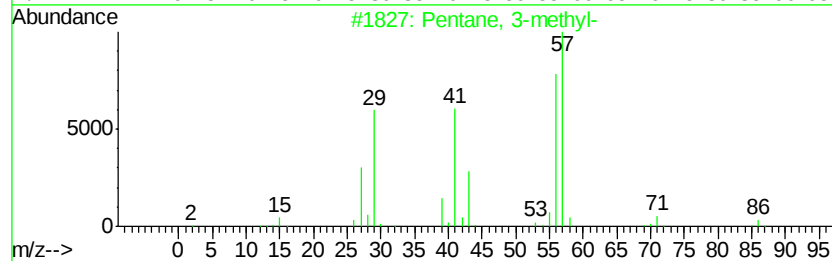
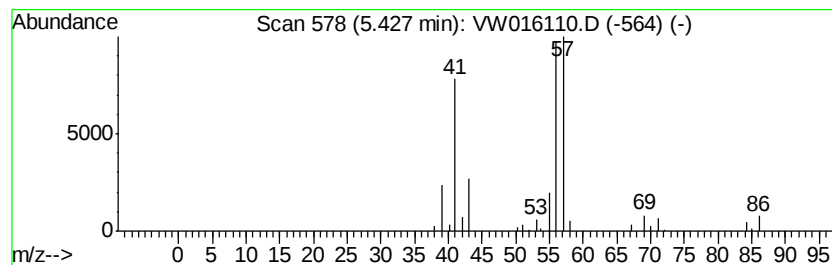
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 (DEL) Alkane: Straight-Chai... Concentration Rank 7

| R.T. | EstConc   | Area  | Relative to ISTD    | R.T. |
|------|-----------|-------|---------------------|------|
| 5.43 | 3.01 ug/L | 95240 | 1,4-Difluorobenzene | 8.84 |

| Hit# | of | Tentative ID             | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------|-----|---------|-------------|------|
| 1    | 5  | Pentane, 3-methyl-       | 86  | C6H14   | 000096-14-0 | 78   |
| 2    |    | Pentane, 3-methyl-       | 86  | C6H14   | 000096-14-0 | 78   |
| 3    |    | Pentane, 3-methyl-       | 86  | C6H14   | 000096-14-0 | 64   |
| 4    |    | Hexane, 2,2,3-trimethyl- | 128 | C9H20   | 016747-25-4 | 56   |
| 5    |    | Propane, 2-cyclopropyl-  | 84  | C6H12   | 003638-35-5 | 45   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW081020\  
Data File : VW016110.D  
Acq On : 10 Aug 2020 19:29  
Operator : SY/VA  
Sample : L3598-13  
Misc : 5.82G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
GAY69

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM081020S.M  
Quant Title : VOC Analysis

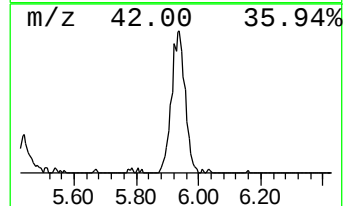
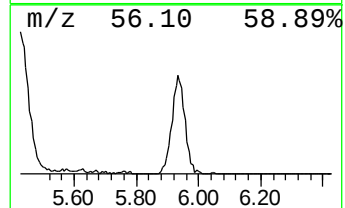
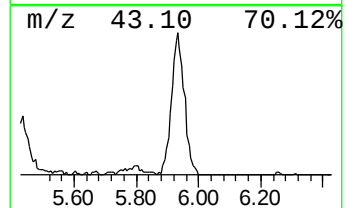
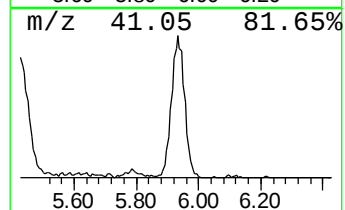
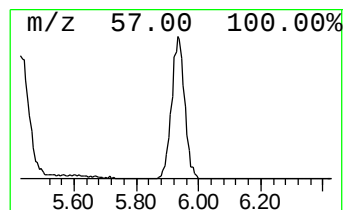
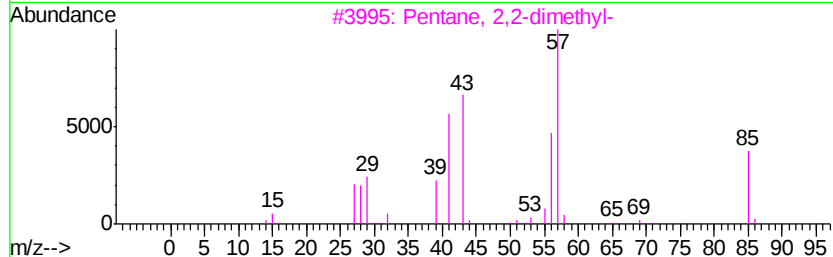
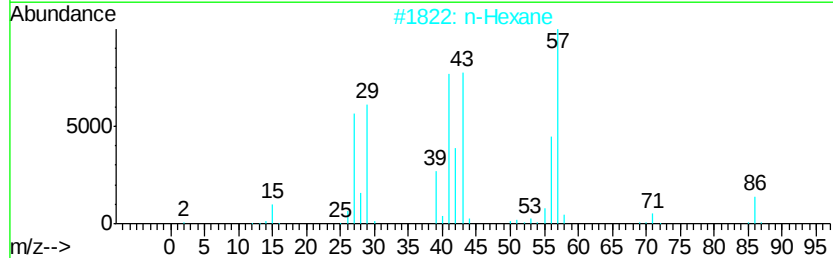
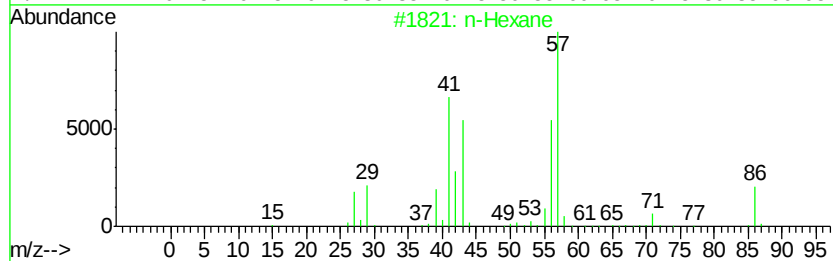
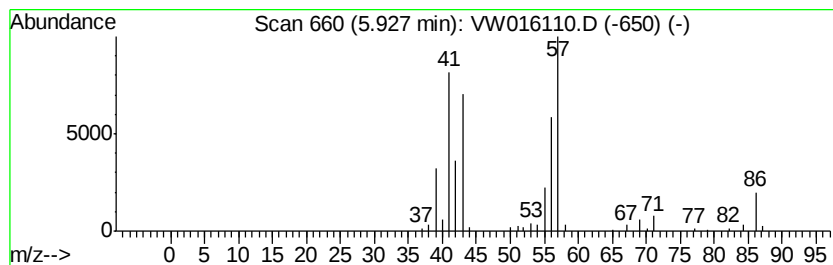
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 6 (DEL) Alkane: Straight-Chai... Concentration Rank 6

| R.T. | EstConc   | Area   | Relative to ISTD    | R.T. |
|------|-----------|--------|---------------------|------|
| 5.93 | 3.21 ug/L | 101489 | 1,4-Difluorobenzene | 8.84 |

| Hit# | of | Tentative ID           | MW  | MolForm | CAS#        | Qual |
|------|----|------------------------|-----|---------|-------------|------|
| 1    | 5  | n-Hexane               | 86  | C6H14   | 000110-54-3 | 90   |
| 2    |    | n-Hexane               | 86  | C6H14   | 000110-54-3 | 53   |
| 3    |    | Pentane, 2,2-dimethyl- | 100 | C7H16   | 000590-35-2 | 47   |
| 4    |    | 1-Pentene, 4-methyl-   | 84  | C6H12   | 000691-37-2 | 47   |
| 5    |    | n-Hexane               | 86  | C6H14   | 000110-54-3 | 45   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW081020\  
Data File : VW016110.D  
Acq On : 10 Aug 2020 19:29  
Operator : SY/VA  
Sample : L3598-13  
Misc : 5.82G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
GAY69

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM081020S.M  
Quant Title : VOC Analysis

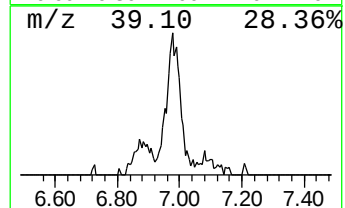
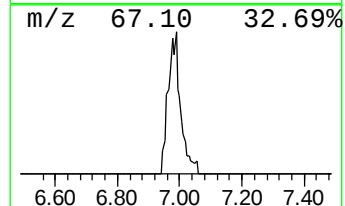
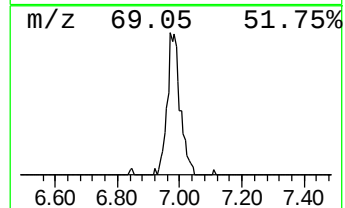
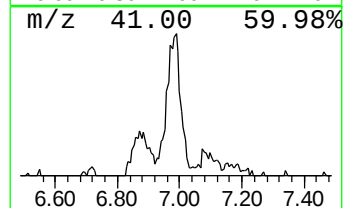
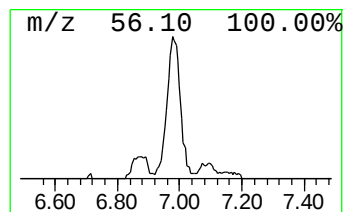
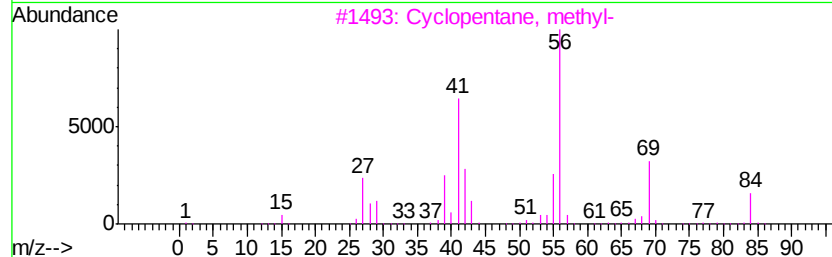
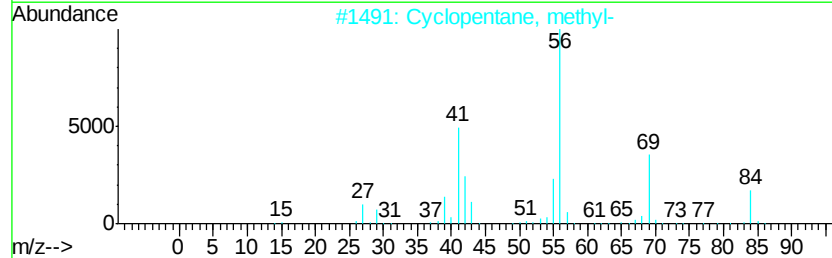
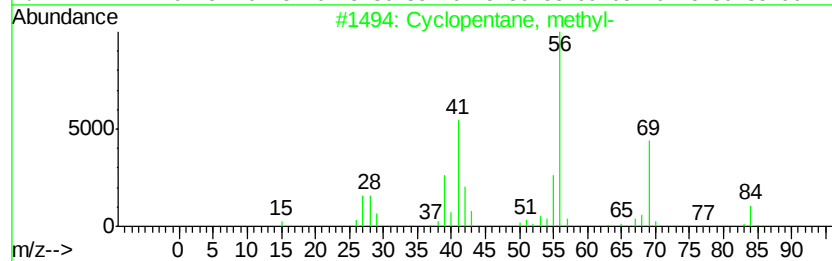
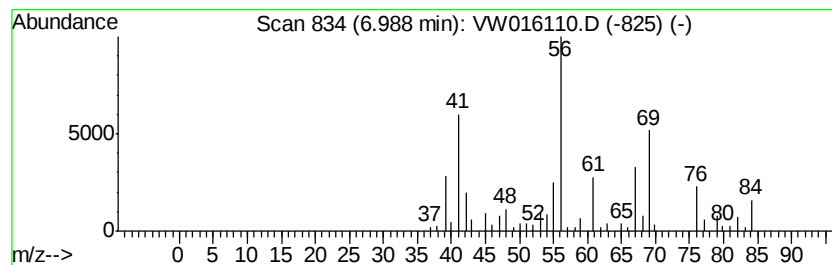
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 7 (DEL) Alkane: Cyclic6.99 Concentration Rank 11

| R.T. | EstConc   | Area  | Relative to ISTD    | R.T. |
|------|-----------|-------|---------------------|------|
| 6.99 | 1.75 ug/L | 55341 | 1,4-Difluorobenzene | 8.84 |

| Hit# | of | Tentative ID          | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------|-----|---------|-------------|------|
| 1    | 5  | Cyclopentane, methyl- | 84  | C6H12   | 000096-37-7 | 49   |
| 2    |    | Cyclopentane, methyl- | 84  | C6H12   | 000096-37-7 | 43   |
| 3    |    | Cyclopentane, methyl- | 84  | C6H12   | 000096-37-7 | 43   |
| 4    |    | 1-Pentene, 2-methyl-  | 84  | C6H12   | 000763-29-1 | 43   |
| 5    |    | 1-Pentanol, 3-methyl- | 102 | C6H14O  | 000589-35-5 | 38   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW081020\  
Data File : VW016110.D  
Acq On : 10 Aug 2020 19:29  
Operator : SY/VA  
Sample : L3598-13  
Misc : 5.82G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampled :  
GAY69

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM081020S.M  
Quant Title : VOC Analysis

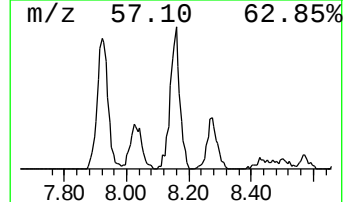
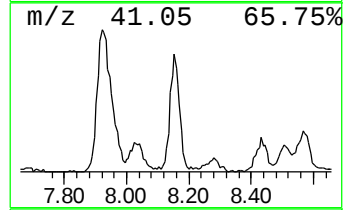
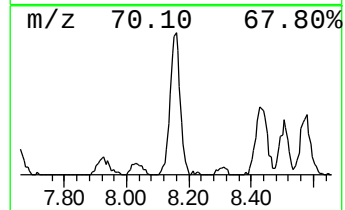
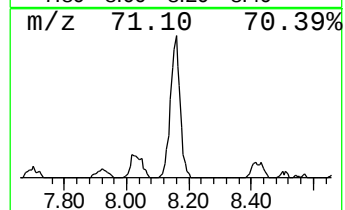
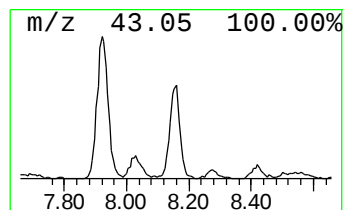
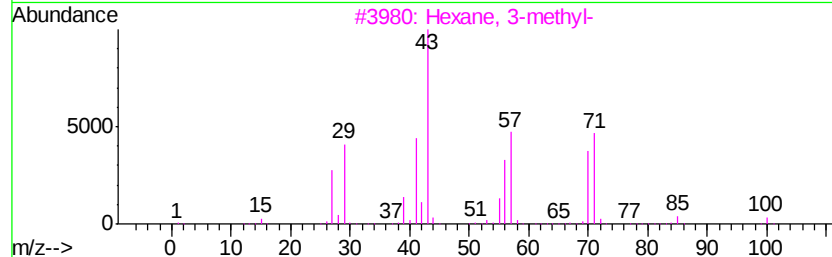
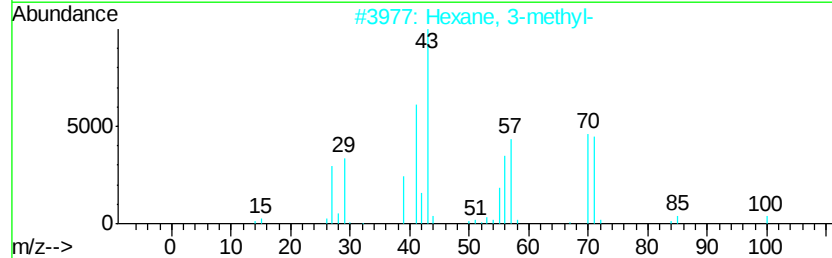
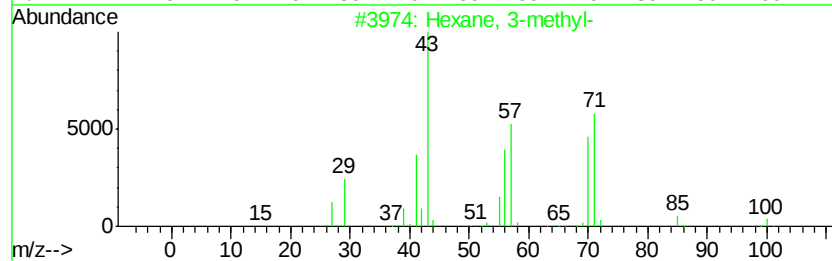
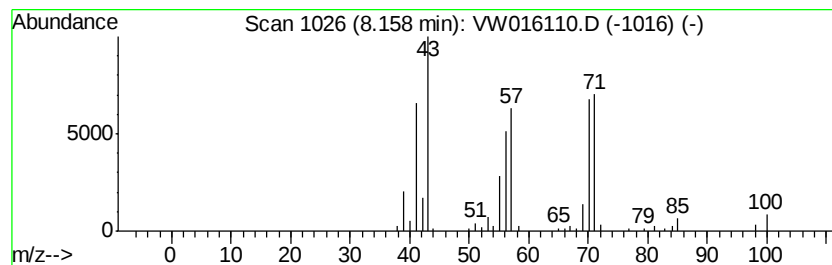
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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

| R.T. | EstConc   | Area  | Relative to ISTD    | R.T. |
|------|-----------|-------|---------------------|------|
| 8.16 | 2.46 ug/L | 77718 | 1,4-Difluorobenzene | 8.84 |

| Hit# | of | Tentative ID             | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------|-----|---------|-------------|------|
| 1    | 5  | Hexane, 3-methyl-        | 100 | C7H16   | 000589-34-4 | 91   |
| 2    |    | Hexane, 3-methyl-        | 100 | C7H16   | 000589-34-4 | 90   |
| 3    |    | Hexane, 3-methyl-        | 100 | C7H16   | 000589-34-4 | 81   |
| 4    |    | Hexane, 2,3,4-trimethyl- | 128 | C9H20   | 000921-47-1 | 59   |
| 5    |    | Heptane                  | 100 | C7H16   | 000142-82-5 | 58   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW081020\  
Data File : VW016110.D  
Acq On : 10 Aug 2020 19:29  
Operator : SY/VA  
Sample : L3598-13  
Misc : 5.82G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampled :  
GAY69

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM081020S.M  
Quant Title : VOC Analysis

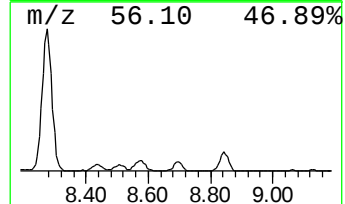
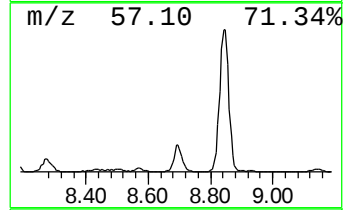
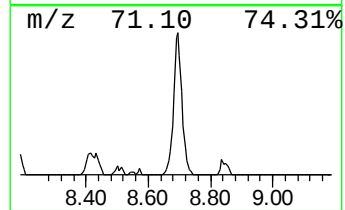
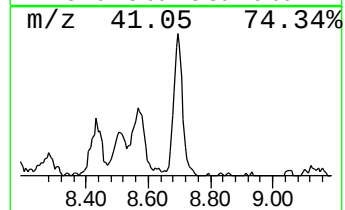
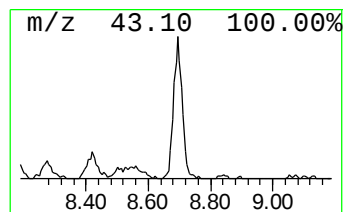
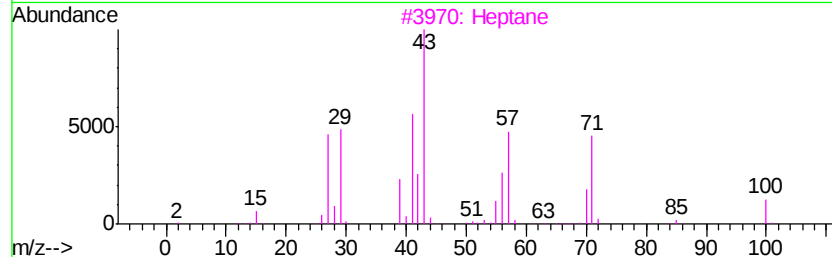
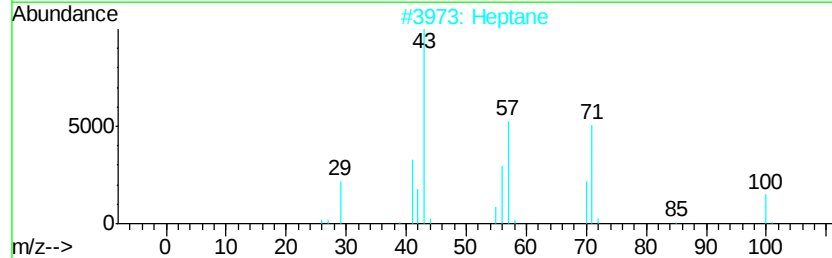
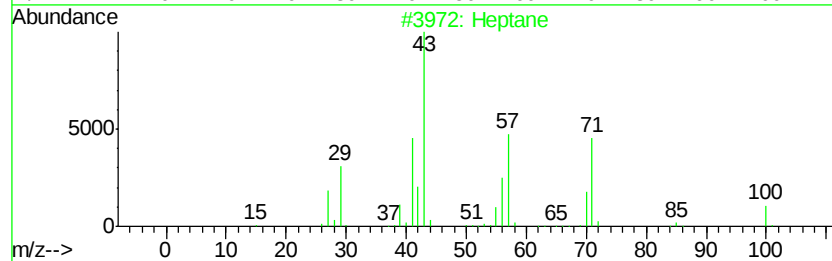
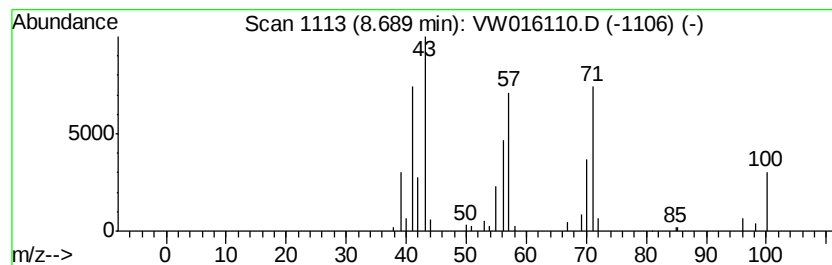
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 9 (DEL) Alkane: Straight-Chai... Concentration Rank 13

| R.T. | EstConc   | Area  | Relative to ISTD    | R.T. |
|------|-----------|-------|---------------------|------|
| 8.69 | 1.60 ug/L | 50798 | 1,4-Difluorobenzene | 8.84 |

| Hit# | of                | 5 | Tentative ID | MW  | MolForm | CAS#        | Qual |
|------|-------------------|---|--------------|-----|---------|-------------|------|
| 1    | Heptane           |   |              | 100 | C7H16   | 000142-82-5 | 91   |
| 2    | Heptane           |   |              | 100 | C7H16   | 000142-82-5 | 86   |
| 3    | Heptane           |   |              | 100 | C7H16   | 000142-82-5 | 78   |
| 4    | Heptane           |   |              | 100 | C7H16   | 000142-82-5 | 72   |
| 5    | Hexane, 3-methyl- |   |              | 100 | C7H16   | 000589-34-4 | 53   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW081020\  
Data File : VW016110.D  
Acq On : 10 Aug 2020 19:29  
Operator : SY/VA  
Sample : L3598-13  
Misc : 5.82G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
GAY69

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM081020S.M  
Quant Title : VOC Analysis

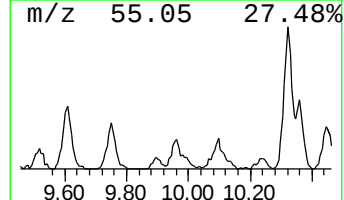
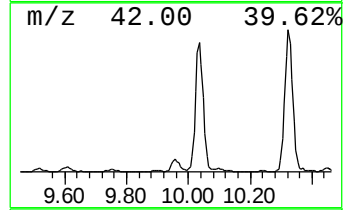
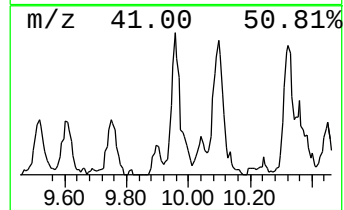
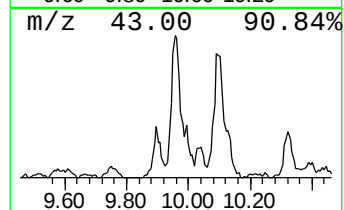
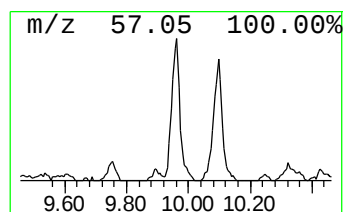
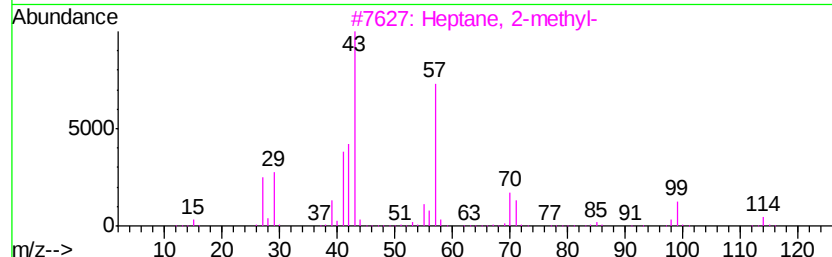
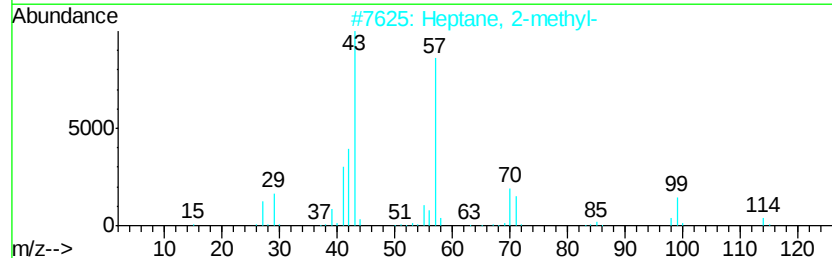
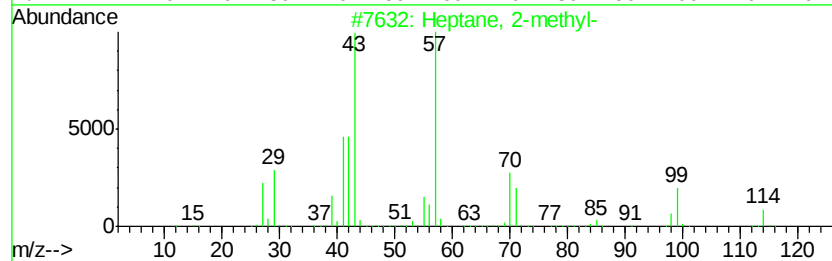
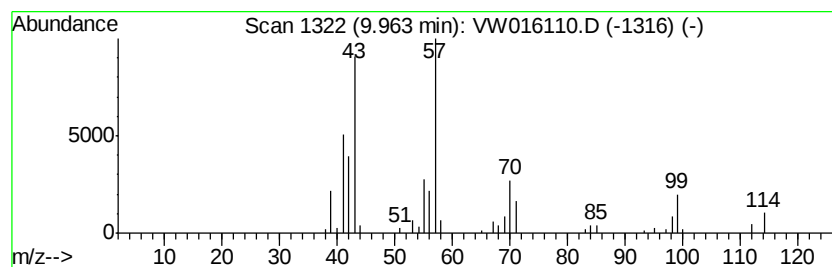
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 10 (DEL) Alkane: Straight-Chai... Concentration Rank 14

| R.T. | EstConc   | Area  | Relative to ISTD    | R.T. |
|------|-----------|-------|---------------------|------|
| 9.96 | 1.44 ug/L | 45512 | 1,4-Difluorobenzene | 8.84 |

| Hit# | of | Tentative ID          | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------|-----|---------|-------------|------|
| 1    | 5  | Heptane, 2-methyl-    | 114 | C8H18   | 000592-27-8 | 93   |
| 2    |    | Heptane, 2-methyl-    | 114 | C8H18   | 000592-27-8 | 80   |
| 3    |    | Heptane, 2-methyl-    | 114 | C8H18   | 000592-27-8 | 80   |
| 4    |    | Hexane, 2,5-dimethyl- | 114 | C8H18   | 000592-13-2 | 49   |
| 5    |    | Heptane, 1,1'-oxybis- | 214 | C14H30O | 000629-64-1 | 47   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW081020\  
Data File : VW016110.D  
Acq On : 10 Aug 2020 19:29  
Operator : SY/VA  
Sample : L3598-13  
Misc : 5.82G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
GAY69

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM081020S.M  
Quant Title : VOC Analysis

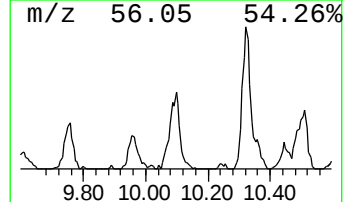
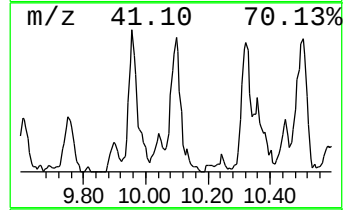
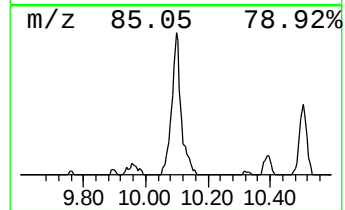
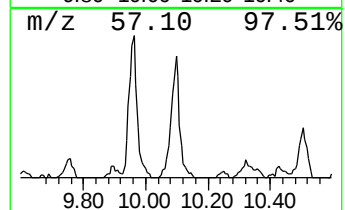
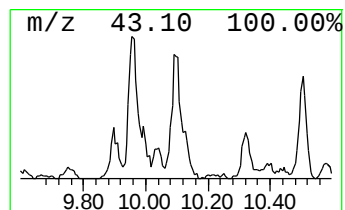
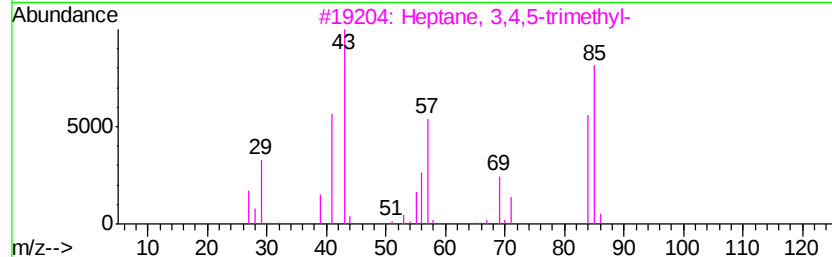
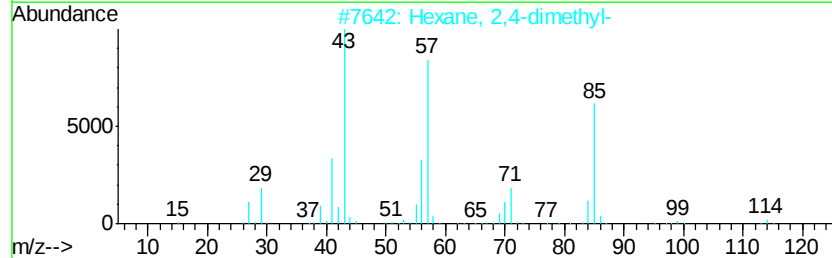
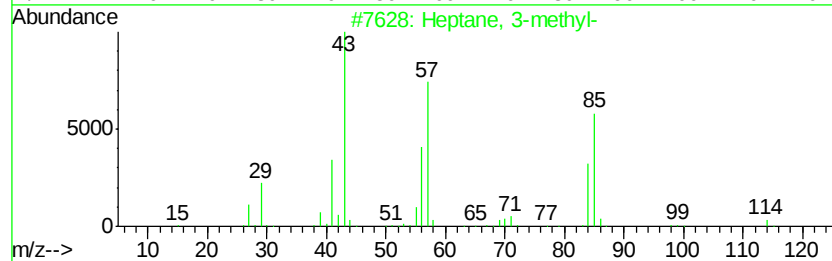
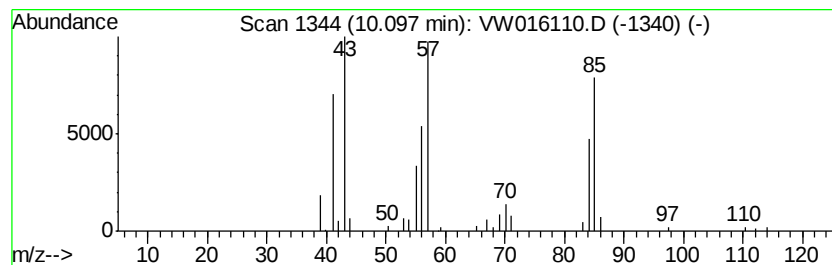
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 12 (DEL) Alkane: Straight-Chai... Concentration Rank 10

| R.T.  | EstConc   | Area  | Relative to ISTD    | R.T. |
|-------|-----------|-------|---------------------|------|
| 10.10 | 1.75 ug/L | 55486 | 1,4-Difluorobenzene | 8.84 |

| Hit# | of | 5 | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|---|--------------------------------|-----|---------|-------------|------|
| 1    |    |   | Heptane, 3-methyl-             | 114 | C8H18   | 000589-81-1 | 91   |
| 2    |    |   | Hexane, 2,4-dimethyl-          | 114 | C8H18   | 000589-43-5 | 80   |
| 3    |    |   | Heptane, 3,4,5-trimethyl-      | 142 | C10H22  | 020278-89-1 | 78   |
| 4    |    |   | Pentane, 3-ethyl-2,4-dimethyl- | 128 | C9H20   | 001068-87-7 | 72   |
| 5    |    |   | Hexane, 2,4-dimethyl-          | 114 | C8H18   | 000589-43-5 | 64   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW081020\  
Data File : VW016110.D  
Acq On : 10 Aug 2020 19:29  
Operator : SY/VA  
Sample : L3598-13  
Misc : 5.82G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampled :  
GAY69

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM081020S.M  
Quant Title : VOC Analysis

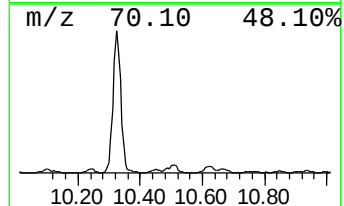
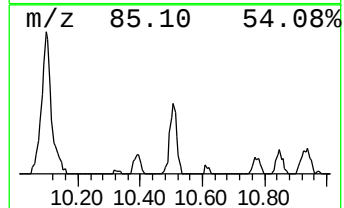
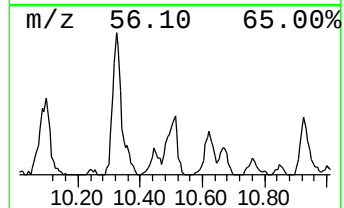
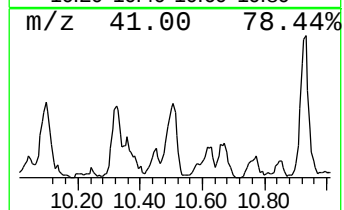
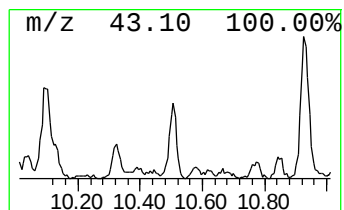
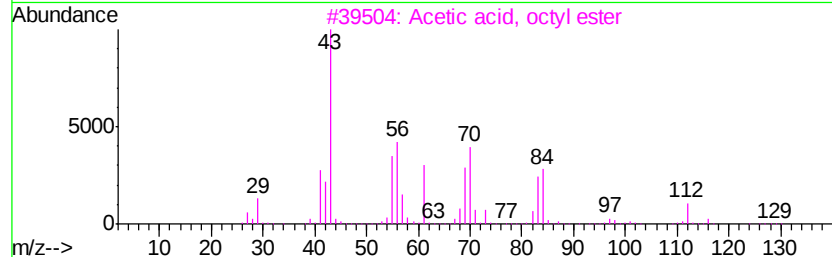
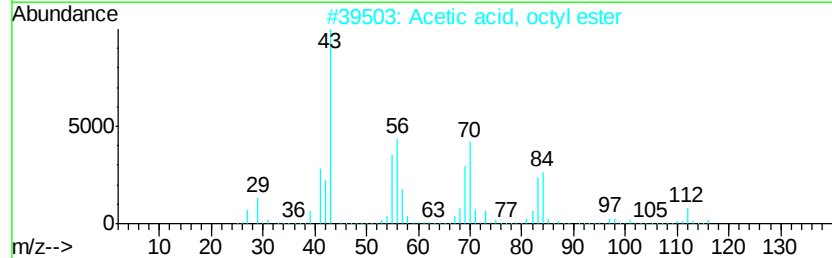
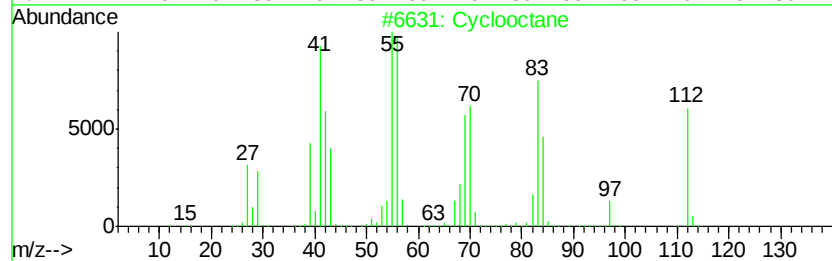
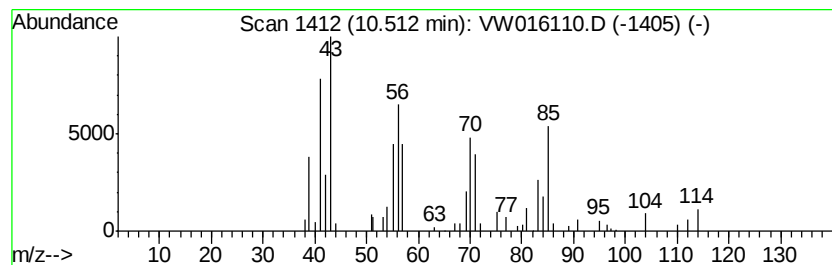
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 13 (DEL) Alkane: Cyclic10.51 Concentration Rank 9

| R.T.  | EstConc   | Area  | Relative to ISTD | R.T.  |
|-------|-----------|-------|------------------|-------|
| 10.51 | 1.84 ug/L | 63537 | Chlorobenzene-d5 | 11.63 |

| Hit# | of | 5 | Tentative ID             | MW  | MolForm  | CAS#        | Qual |
|------|----|---|--------------------------|-----|----------|-------------|------|
| 1    |    |   | Cyclooctane              | 112 | C8H16    | 000292-64-8 | 49   |
| 2    |    |   | Acetic acid, octyl ester | 172 | C10H20O2 | 000112-14-1 | 47   |
| 3    |    |   | Acetic acid, octyl ester | 172 | C10H20O2 | 000112-14-1 | 47   |
| 4    |    |   | Octane                   | 114 | C8H18    | 000111-65-9 | 46   |
| 5    |    |   | Hexane, 2,3,4-trimethyl- | 128 | C9H20    | 000921-47-1 | 38   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW081020\  
Data File : VW016110.D  
Acq On : 10 Aug 2020 19:29  
Operator : SY/VA  
Sample : L3598-13  
Misc : 5.82G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

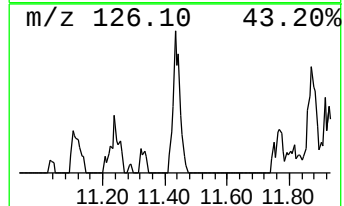
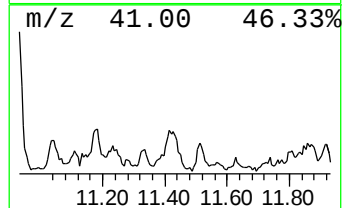
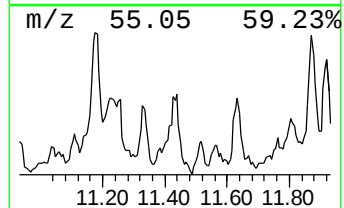
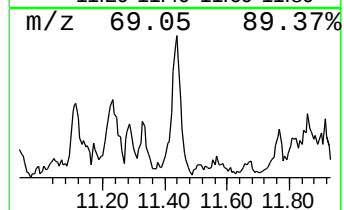
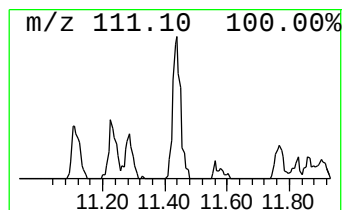
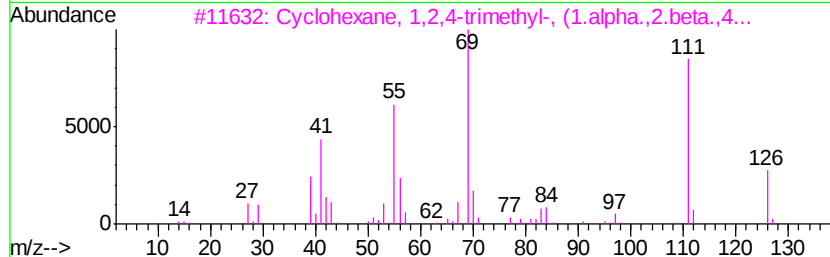
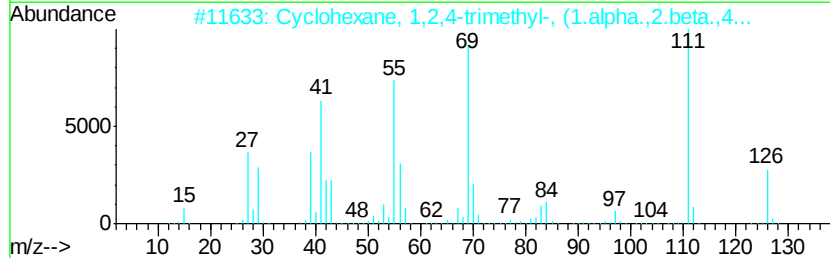
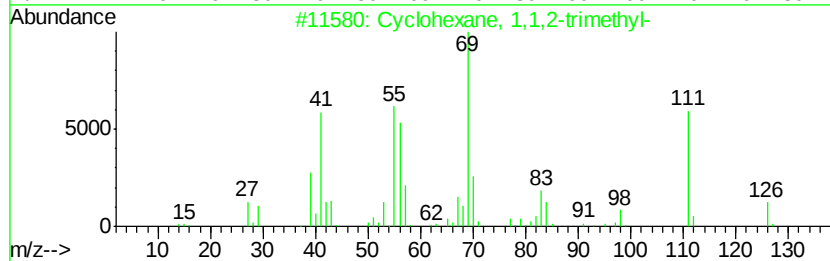
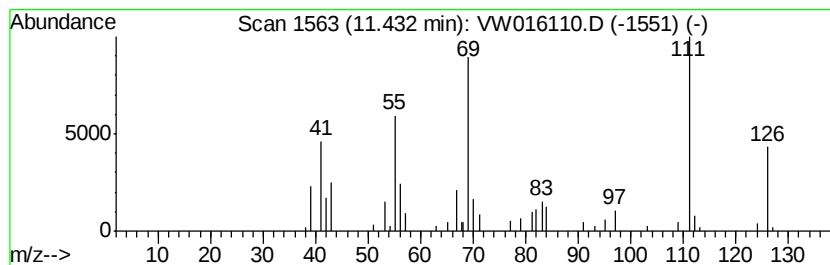
Instrument :  
MSVOA\_W  
ClientSampleId :  
GAY69

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM081020S.M  
Quant Title : VOC Analysis

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

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Peak Number 14 (DEL) Alkane: Cyclic11.43 Concentration Rank 12

| R.T.    | EstConc   | Area                                 | Relative to ISTD | R.T.    |             |      |
|---------|-----------|--------------------------------------|------------------|---------|-------------|------|
| 11.43   | 1.69 ug/L | 58603                                | Chlorobenzene-d5 | 11.63   |             |      |
| Hit# of | 5         | Tentative ID                         | MW               | MolForm | CAS#        | Qual |
| 1       |           | Cyclohexane, 1,1,2-trimethyl-        | 126              | C9H18   | 007094-26-0 | 80   |
| 2       |           | Cyclohexane, 1,2,4-trimethyl-, (...) | 126              | C9H18   | 007667-60-9 | 70   |
| 3       |           | Cyclohexane, 1,2,4-trimethyl-, (...) | 126              | C9H18   | 007667-60-9 | 64   |
| 4       |           | Cyclohexane, 1,3,5-trimethyl-, (...) | 126              | C9H18   | 001795-27-3 | 52   |
| 5       |           | Cyclohexane, 1,2,4-trimethyl-        | 126              | C9H18   | 002234-75-5 | 50   |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW081020\  
Data File : VW016110.D  
Acq On : 10 Aug 2020 19:29  
Operator : SY/VA  
Sample : L3598-13  
Misc : 5.82G/10ML/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
GAY69

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM081020S.M  
Quant Title : VOC Analysis

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

|                      |       |         |       |          |   | --Internal Standard-- |        |      |      |
|----------------------|-------|---------|-------|----------|---|-----------------------|--------|------|------|
| TIC Top Hit name     | RT    | EstConc | Units | Response |   | #                     | RT     | Resp | Conc |
| (DEL) Alkane: Str... | 2.17  | 8.2     | ug/L  | 259160   | 1 | 8.84                  | 791392 | 25.0 |      |
| (DEL) Alkane: Str... | 3.03  | 11.8    | ug/L  | 372196   | 1 | 8.84                  | 791392 | 25.0 |      |
| (DEL) Alkane: Str... | 3.38  | 5.0     | ug/L  | 159158   | 1 | 8.84                  | 791392 | 25.0 |      |
| (DEL) Alkane: Str... | 5.43  | 3.0     | ug/L  | 95240    | 1 | 8.84                  | 791392 | 25.0 |      |
| (DEL) Alkane: Str... | 5.93  | 3.2     | ug/L  | 101489   | 1 | 8.84                  | 791392 | 25.0 |      |
| (DEL) Alkane: Cyc... | 6.99  | 1.8     | ug/L  | 55341    | 1 | 8.84                  | 791392 | 25.0 |      |
| (DEL) Alkane: Str... | 8.16  | 2.5     | ug/L  | 77718    | 1 | 8.84                  | 791392 | 25.0 |      |
| (DEL) Alkane: Str... | 8.69  | 1.6     | ug/L  | 50798    | 1 | 8.84                  | 791392 | 25.0 |      |
| (DEL) Alkane: Str... | 9.96  | 1.4     | ug/L  | 45512    | 1 | 8.84                  | 791392 | 25.0 |      |
| (DEL) Alkane: Str... | 10.10 | 1.8     | ug/L  | 55486    | 1 | 8.84                  | 791392 | 25.0 |      |
| (DEL) Alkane: Cyc... | 10.51 | 1.8     | ug/L  | 63537    | 2 | 11.63                 | 865410 | 25.0 |      |
| (DEL) Alkane: Cyc... | 11.43 | 1.7     | ug/L  | 58603    | 2 | 11.63                 | 865410 | 25.0 |      |