

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW020420\  
 Data File : VW014860.D  
 Acq On : 04 Feb 2020 14:54  
 Operator : SY/VA  
 Sample : L1323-13  
 Misc : 5.01G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 GAT51

## 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\SOM2WLM020320S.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      | 2.836    | 149        | 153      | 156       | rBV6  | 1004        | 1622       | 0.39%        | 0.053%     |
| 2      | 2.897    | 156        | 163      | 172       | rVB2  | 20177       | 40210      | 9.68%        | 1.326%     |
| 3      | 2.983    | 174        | 177      | 178       | rBV2  | 553         | 665        | 0.16%        | 0.022%     |
| 4      | 3.099    | 194        | 196      | 200       | rVB4  | 791         | 742        | 0.18%        | 0.024%     |
| 5      | 3.135    | 200        | 202      | 205       | rBV2  | 1000        | 816        | 0.20%        | 0.027%     |
| 6      | 3.269    | 220        | 224      | 227       | rVB4  | 647         | 853        | 0.21%        | 0.028%     |
| 7      | 3.349    | 233        | 237      | 238       | rBV2  | 791         | 1000       | 0.24%        | 0.033%     |
| 8      | 3.605    | 277        | 279      | 282       | rBV3  | 1107        | 1330       | 0.32%        | 0.044%     |
| 9      | 3.635    | 282        | 284      | 289       | rVB4  | 807         | 1144       | 0.28%        | 0.038%     |
| 10     | 3.763    | 304        | 305      | 308       | rBV3  | 705         | 693        | 0.17%        | 0.023%     |
| 11     | 4.025    | 338        | 348      | 357       | rBV   | 31027       | 82082      | 19.75%       | 2.706%     |
| 12     | 4.123    | 360        | 364      | 366       | rBV3  | 1383        | 2058       | 0.50%        | 0.068%     |
| 13     | 4.428    | 412        | 414      | 416       | rVB4  | 813         | 688        | 0.17%        | 0.023%     |
| 14     | 4.446    | 416        | 417      | 422       | rVB2  | 741         | 973        | 0.23%        | 0.032%     |
| 15     | 4.574    | 436        | 438      | 441       | rBV3  | 631         | 730        | 0.18%        | 0.024%     |
| 16     | 4.611    | 441        | 444      | 446       | rBV2  | 844         | 744        | 0.18%        | 0.025%     |
| 17     | 4.818    | 476        | 478      | 481       | rVB2  | 690         | 705        | 0.17%        | 0.023%     |
| 18     | 4.854    | 481        | 484      | 487       | rBV4  | 563         | 802        | 0.19%        | 0.026%     |
| 19     | 4.921    | 487        | 495      | 504       | rBV2  | 4516        | 13387      | 3.22%        | 0.441%     |
| 20     | 4.989    | 504        | 506      | 511       | rVB3  | 1033        | 1342       | 0.32%        | 0.044%     |
| 21     | 5.043    | 511        | 515      | 517       | rVB3  | 566         | 813        | 0.20%        | 0.027%     |
| 22     | 5.074    | 517        | 520      | 522       | rBV3  | 831         | 1191       | 0.29%        | 0.039%     |
| 23     | 5.232    | 544        | 546      | 547       | rBV2  | 770         | 690        | 0.17%        | 0.023%     |
| 24     | 5.342    | 562        | 564      | 568       | rVB2  | 821         | 930        | 0.22%        | 0.031%     |
| 25     | 5.379    | 568        | 570      | 573       | rBV   | 730         | 699        | 0.17%        | 0.023%     |
| 26     | 5.403    | 573        | 574      | 577       | rVV2  | 938         | 806        | 0.19%        | 0.027%     |
| 27     | 5.464    | 582        | 584      | 586       | rVV   | 944         | 725        | 0.17%        | 0.024%     |
| 28     | 5.927    | 657        | 660      | 662       | rBV2  | 1290        | 1340       | 0.32%        | 0.044%     |
| 29     | 6.031    | 676        | 677      | 681       | rVB   | 800         | 763        | 0.18%        | 0.025%     |
| 30     | 6.092    | 684        | 687      | 690       | rVB4  | 782         | 785        | 0.19%        | 0.026%     |
| 31     | 6.135    | 692        | 694      | 696       | rBV2  | 744         | 804        | 0.19%        | 0.027%     |
| 32     | 6.293    | 715        | 720      | 722       | rVB3  | 613         | 1004       | 0.24%        | 0.033%     |
| 33     | 6.525    | 754        | 758      | 759       | rVB3  | 570         | 718        | 0.17%        | 0.024%     |
| 34     | 6.549    | 759        | 762      | 764       | rBV3  | 548         | 850        | 0.20%        | 0.028%     |

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 Start Thrs: 0.2  
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Filtering: 5  
 Min Area: 0 % of largest Peak  
 Max Peaks: 100  
 Peak Location: TOP

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

Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM020320S.M  
 Title : VOC Analysis

|    |        |      |      |      |      |       |        |        |        |
|----|--------|------|------|------|------|-------|--------|--------|--------|
| 35 | 6.592  | 766  | 769  | 776  | rBV3 | 577   | 1182   | 0.28%  | 0.039% |
| 36 | 6.726  | 787  | 791  | 793  | rBV3 | 435   | 667    | 0.16%  | 0.022% |
| 37 | 6.964  | 827  | 830  | 831  | rBV  | 818   | 759    | 0.18%  | 0.025% |
| 38 | 7.116  | 841  | 855  | 865  | rBV4 | 11688 | 49747  | 11.97% | 1.640% |
| 39 | 7.281  | 880  | 882  | 886  | rVB4 | 769   | 795    | 0.19%  | 0.026% |
| 40 | 7.494  | 913  | 917  | 918  | rBV2 | 671   | 674    | 0.16%  | 0.022% |
| 41 | 7.647  | 933  | 942  | 951  | rVV  | 42542 | 103492 | 24.90% | 3.412% |
| 42 | 7.744  | 954  | 958  | 959  | rVB3 | 1040  | 1067   | 0.26%  | 0.035% |
| 43 | 7.769  | 959  | 962  | 965  | rBV2 | 784   | 1278   | 0.31%  | 0.042% |
| 44 | 7.945  | 989  | 991  | 994  | rBV3 | 821   | 891    | 0.21%  | 0.029% |
| 45 | 8.055  | 1004 | 1009 | 1010 | rBV3 | 629   | 804    | 0.19%  | 0.027% |
| 46 | 8.110  | 1016 | 1018 | 1021 | rBV  | 643   | 912    | 0.22%  | 0.030% |
| 47 | 8.171  | 1026 | 1028 | 1031 | rVB2 | 731   | 710    | 0.17%  | 0.023% |
| 48 | 8.275  | 1036 | 1045 | 1060 | rVV3 | 83088 | 252287 | 60.70% | 8.319% |
| 49 | 8.372  | 1060 | 1061 | 1064 | rVV3 | 919   | 836    | 0.20%  | 0.028% |
| 50 | 8.403  | 1064 | 1066 | 1068 | rVB3 | 1054  | 962    | 0.23%  | 0.032% |
| 51 | 8.457  | 1073 | 1075 | 1078 | rVB4 | 1012  | 975    | 0.23%  | 0.032% |
| 52 | 8.616  | 1098 | 1101 | 1104 | rBV4 | 700   | 924    | 0.22%  | 0.030% |
| 53 | 8.683  | 1109 | 1112 | 1115 | rBV2 | 990   | 1176   | 0.28%  | 0.039% |
| 54 | 8.762  | 1123 | 1125 | 1128 | rBV2 | 633   | 658    | 0.16%  | 0.022% |
| 55 | 8.841  | 1131 | 1138 | 1149 | rVV  | 67367 | 135238 | 32.54% | 4.459% |
| 56 | 8.963  | 1155 | 1158 | 1160 | rVB2 | 866   | 1080   | 0.26%  | 0.036% |
| 57 | 9.110  | 1178 | 1182 | 1183 | rVB2 | 781   | 887    | 0.21%  | 0.029% |
| 58 | 9.165  | 1188 | 1191 | 1194 | rVV3 | 740   | 1367   | 0.33%  | 0.045% |
| 59 | 9.274  | 1198 | 1209 | 1217 | rVV  | 61058 | 126619 | 30.47% | 4.175% |
| 60 | 9.335  | 1217 | 1219 | 1221 | rVV3 | 877   | 1086   | 0.26%  | 0.036% |
| 61 | 9.372  | 1224 | 1225 | 1228 | rVB3 | 784   | 702    | 0.17%  | 0.023% |
| 62 | 9.707  | 1277 | 1280 | 1282 | rBV3 | 709   | 795    | 0.19%  | 0.026% |
| 63 | 9.744  | 1285 | 1286 | 1291 | rVB2 | 1240  | 1186   | 0.29%  | 0.039% |
| 64 | 9.841  | 1300 | 1302 | 1304 | rBV2 | 850   | 709    | 0.17%  | 0.023% |
| 65 | 9.872  | 1304 | 1307 | 1310 | rBV3 | 756   | 1121   | 0.27%  | 0.037% |
| 66 | 9.896  | 1310 | 1311 | 1315 | rVB3 | 879   | 921    | 0.22%  | 0.030% |
| 67 | 9.957  | 1319 | 1321 | 1323 | rBV3 | 1147  | 938    | 0.23%  | 0.031% |
| 68 | 10.036 | 1326 | 1334 | 1342 | rBV  | 24681 | 47929  | 11.53% | 1.580% |
| 69 | 10.128 | 1347 | 1349 | 1351 | rBV  | 931   | 779    | 0.19%  | 0.026% |
| 70 | 10.207 | 1360 | 1362 | 1364 | rVV3 | 1033  | 1035   | 0.25%  | 0.034% |
| 71 | 10.231 | 1364 | 1366 | 1370 | rVB2 | 941   | 1157   | 0.28%  | 0.038% |

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 GAT51

## Integration Parameters: LSCINT.P

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 Sampling : 1  
 Start Thrs: 0.2  
 Stop Thrs : 0

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 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\SOM2WLM020320S.M  
 Title : VOC Analysis

|     |        |      |      |      |      |       |        |         |         |
|-----|--------|------|------|------|------|-------|--------|---------|---------|
| 72  | 10.323 | 1372 | 1381 | 1388 | rBV  | 95254 | 170502 | 41.03%  | 5.622%  |
| 73  | 10.457 | 1401 | 1403 | 1404 | rBV2 | 860   | 720    | 0.17%   | 0.024%  |
| 74  | 10.500 | 1408 | 1410 | 1414 | rVB5 | 672   | 939    | 0.23%   | 0.031%  |
| 75  | 10.579 | 1414 | 1423 | 1432 | rBV2 | 13431 | 29258  | 7.04%   | 0.965%  |
| 76  | 10.707 | 1438 | 1444 | 1449 | rVB2 | 7254  | 12739  | 3.07%   | 0.420%  |
| 77  | 10.756 | 1451 | 1452 | 1459 | rVB5 | 1216  | 1552   | 0.37%   | 0.051%  |
| 78  | 10.866 | 1464 | 1470 | 1472 | rBV6 | 1999  | 3519   | 0.85%   | 0.116%  |
| 79  | 10.926 | 1474 | 1480 | 1491 | rBV  | 16171 | 31685  | 7.62%   | 1.045%  |
| 80  | 11.006 | 1491 | 1493 | 1496 | rVB4 | 1161  | 1312   | 0.32%   | 0.043%  |
| 81  | 11.067 | 1496 | 1503 | 1512 | rVB4 | 4914  | 10354  | 2.49%   | 0.341%  |
| 82  | 11.183 | 1518 | 1522 | 1524 | rBV5 | 2110  | 3360   | 0.81%   | 0.111%  |
| 83  | 11.213 | 1524 | 1527 | 1528 | rBV3 | 1143  | 1141   | 0.27%   | 0.038%  |
| 84  | 11.231 | 1528 | 1530 | 1531 | rBV2 | 2058  | 1794   | 0.43%   | 0.059%  |
| 85  | 11.628 | 1590 | 1595 | 1604 | rBV  | 86795 | 148703 | 35.78%  | 4.903%  |
| 86  | 12.243 | 1694 | 1696 | 1698 | rBV2 | 1093  | 1062   | 0.26%   | 0.035%  |
| 87  | 12.341 | 1709 | 1712 | 1713 | rBV3 | 2041  | 2195   | 0.53%   | 0.072%  |
| 88  | 12.688 | 1763 | 1769 | 1776 | rBV2 | 41506 | 70228  | 16.90%  | 2.316%  |
| 89  | 12.865 | 1786 | 1798 | 1819 | rVB5 | 64892 | 415603 | 100.00% | 13.703% |
| 90  | 13.304 | 1857 | 1870 | 1881 | rBV3 | 82994 | 383370 | 92.24%  | 12.641% |
| 91  | 13.438 | 1884 | 1892 | 1906 | rVB4 | 51560 | 209760 | 50.47%  | 6.916%  |
| 92  | 13.554 | 1906 | 1911 | 1917 | rBV2 | 47903 | 81339  | 19.57%  | 2.682%  |
| 93  | 13.853 | 1952 | 1960 | 1968 | rBV2 | 84749 | 175273 | 42.17%  | 5.779%  |
| 94  | 14.237 | 2017 | 2023 | 2024 | rBV6 | 3187  | 5611   | 1.35%   | 0.185%  |
| 95  | 14.286 | 2024 | 2031 | 2046 | rVB4 | 14350 | 51512  | 12.39%  | 1.698%  |
| 96  | 14.523 | 2057 | 2070 | 2085 | rVB5 | 42335 | 170319 | 40.98%  | 5.616%  |
| 97  | 14.731 | 2101 | 2104 | 2105 | rBV3 | 5509  | 5668   | 1.36%   | 0.187%  |
| 98  | 15.365 | 2203 | 2208 | 2214 | rBV  | 21330 | 37872  | 9.11%   | 1.249%  |
| 99  | 16.444 | 2380 | 2385 | 2391 | rVB2 | 26974 | 55709  | 13.40%  | 1.837%  |
| 100 | 16.639 | 2412 | 2417 | 2424 | rVB2 | 17387 | 40690  | 9.79%   | 1.342%  |

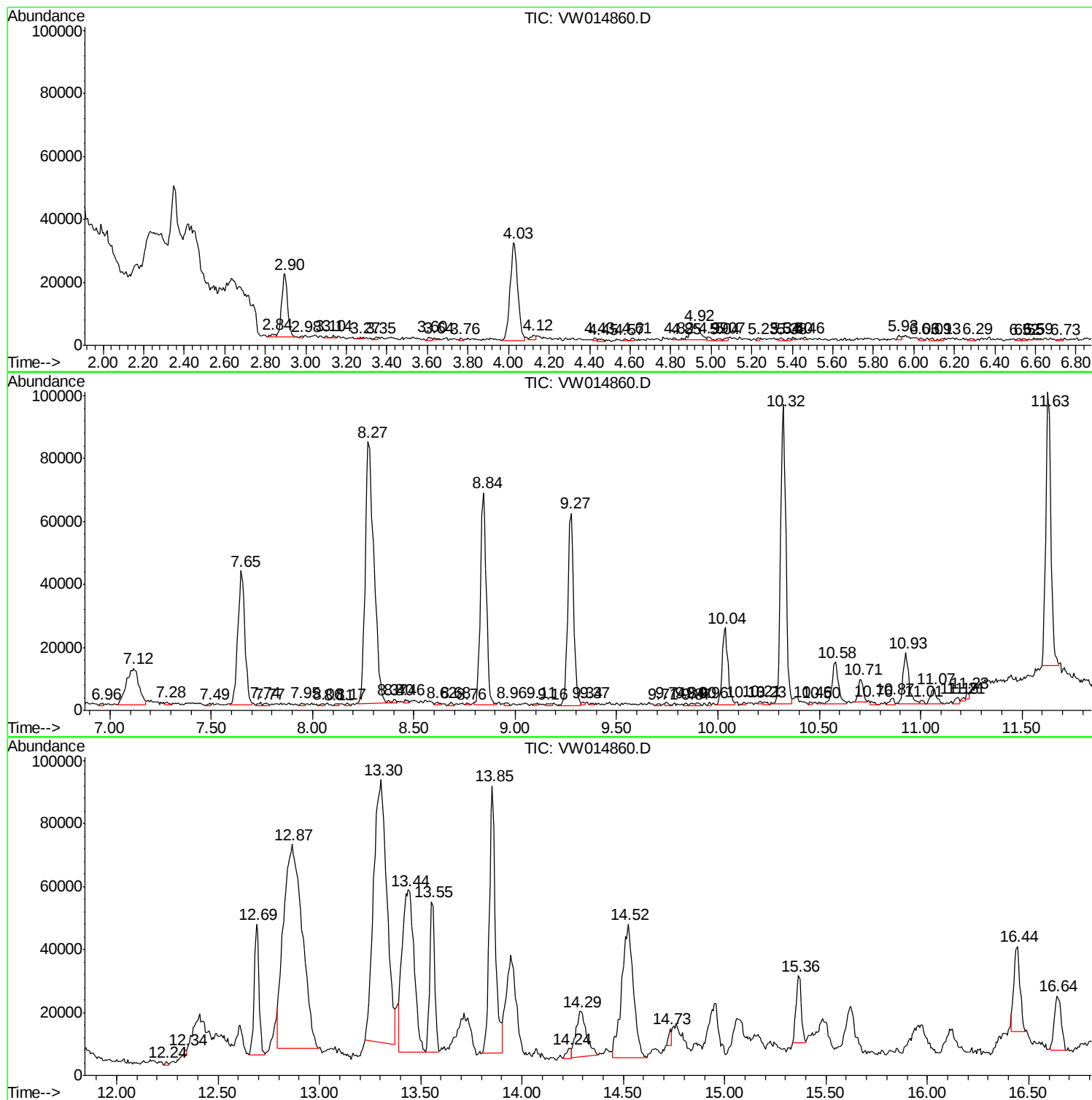
Sum of corrected areas: 3032838

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM020320S.M  
Quant Title : VOC Analysis

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



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW020420\  
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Quant Title : VOC Analysis

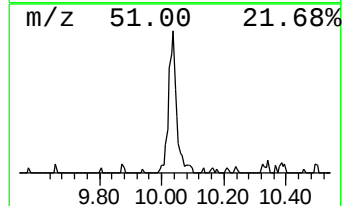
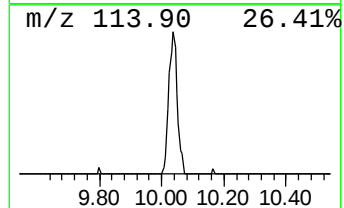
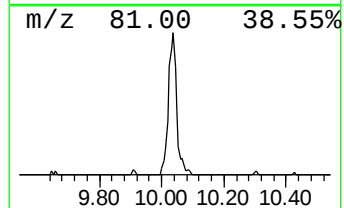
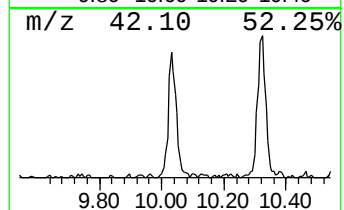
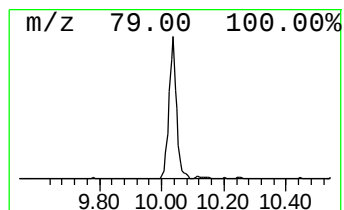
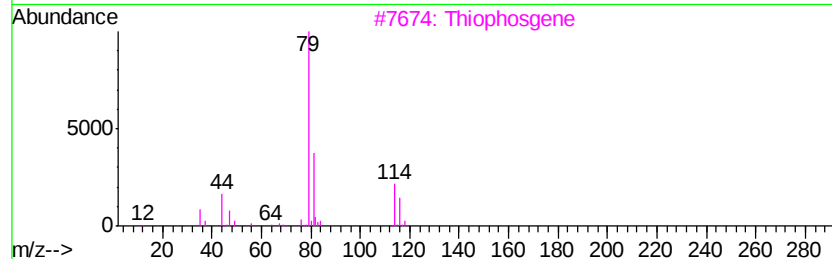
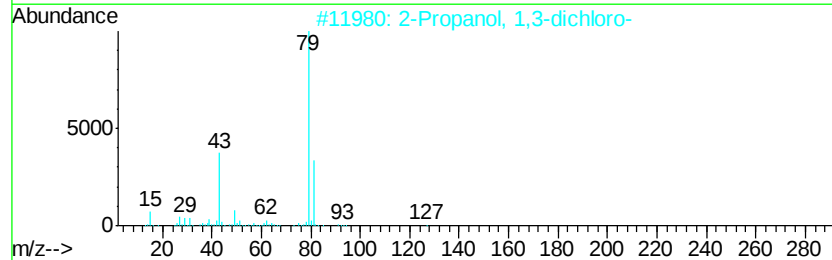
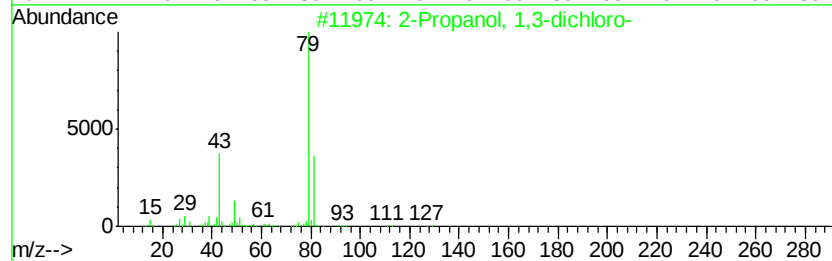
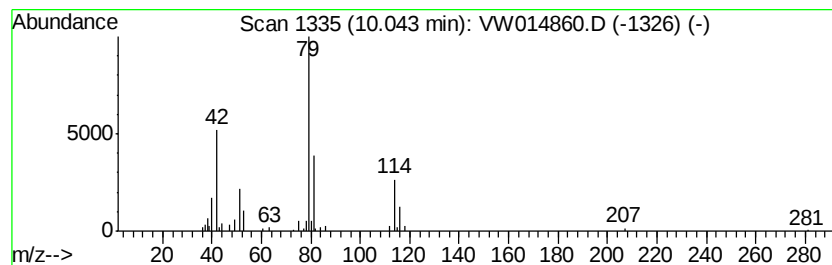
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 1 unknown-01 Concentration Rank 9

| R.T.  | EstConc   | Area  | Relative to ISTD    | R.T. |
|-------|-----------|-------|---------------------|------|
| 10.04 | 8.86 ug/L | 47929 | 1,4-Difluorobenzene | 8.84 |

| Hit# | of                                  | 5 | Tentative ID | MW  | MolForm   | CAS#        | Qual |
|------|-------------------------------------|---|--------------|-----|-----------|-------------|------|
| 1    | 2-Propanol, 1,3-dichloro-           |   |              | 128 | C3H6Cl2O  | 000096-23-1 | 25   |
| 2    | 2-Propanol, 1,3-dichloro-           |   |              | 128 | C3H6Cl2O  | 000096-23-1 | 17   |
| 3    | Thiophosgene                        |   |              | 114 | CCl2S     | 000463-71-8 | 12   |
| 4    | Pyridine, 2-(4-nitrobenzylidenam... |   |              | 227 | C12H9N3O2 | 005918-77-4 | 9    |
| 5    | 2-Hexen-4-yne                       |   |              | 80  | C6H8      | 014092-20-7 | 9    |



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Quant Title : VOC Analysis

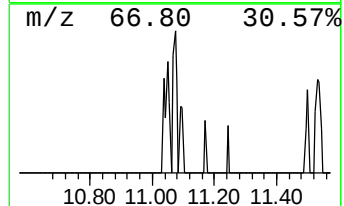
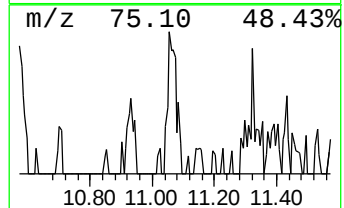
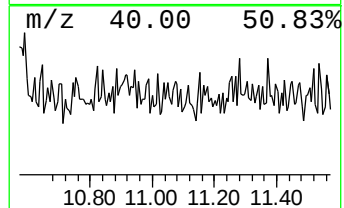
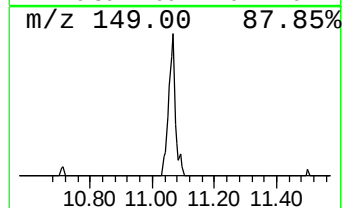
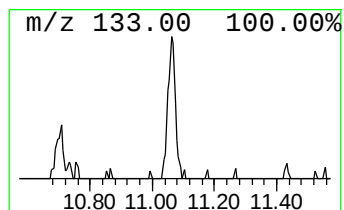
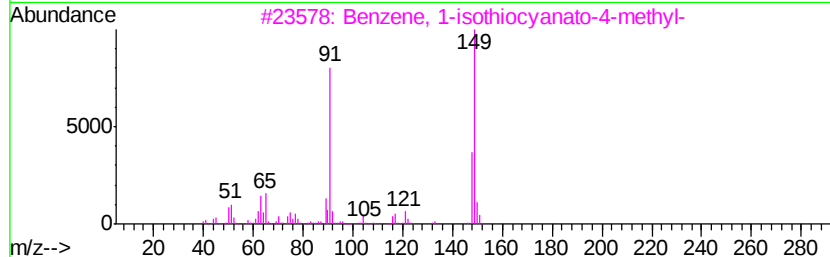
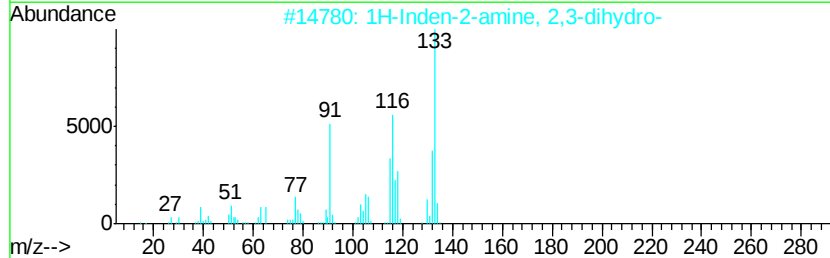
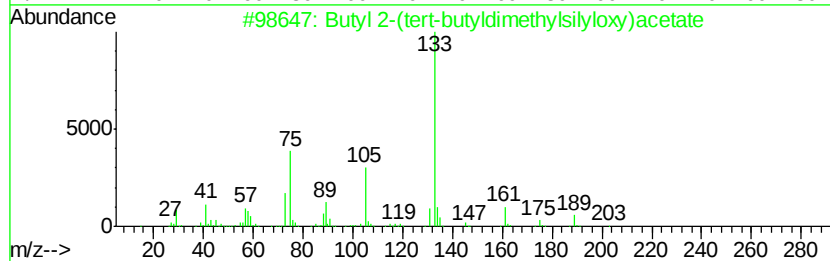
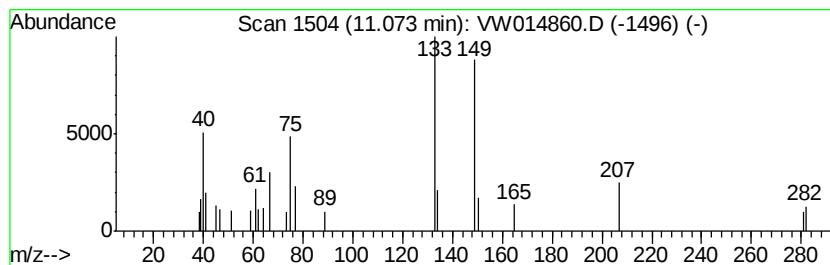
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 3 unknown-02 Concentration Rank 12

| R.T.  | EstConc   | Area  | Relative to ISTD | R.T.  |
|-------|-----------|-------|------------------|-------|
| 11.07 | 1.74 ug/L | 10354 | Chlorobenzene-d5 | 11.63 |

| Hit# | of | 5 | Tentative ID                         | MW  | MolForm    | CAS#         | Qual |
|------|----|---|--------------------------------------|-----|------------|--------------|------|
| 1    |    |   | Butyl 2-(tert-butylidimethylsilyl... | 246 | C12H26O3Si | 1000366-87-5 | 38   |
| 2    |    |   | 1H-Inden-2-amine, 2,3-dihydro-       | 133 | C9H11N     | 002975-41-9  | 16   |
| 3    |    |   | Benzene, 1-isothiocyanato-4-methyl-  | 149 | C8H7NS     | 000622-59-3  | 16   |
| 4    |    |   | 1H-Inden-2-amine, 2,3-dihydro-       | 133 | C9H11N     | 002975-41-9  | 16   |
| 5    |    |   | 1,2,4-Triazolo[4,3-a]pyridine, 3...  | 133 | C7H7N3     | 001004-65-5  | 12   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW020420\  
Data File : VW014860.D  
Acq On : 04 Feb 2020 14:54  
Operator : SY/VA  
Sample : L1323-13  
Misc : 5.01G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
GAT51

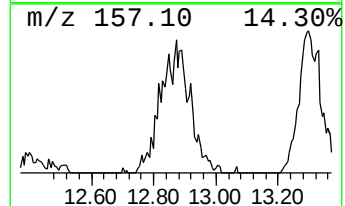
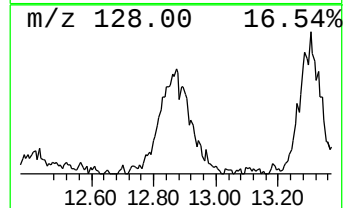
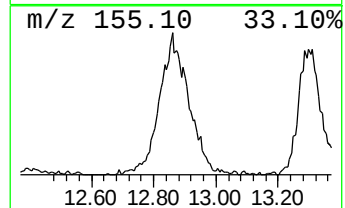
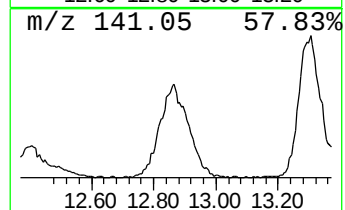
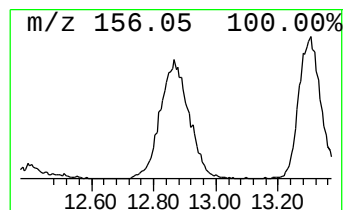
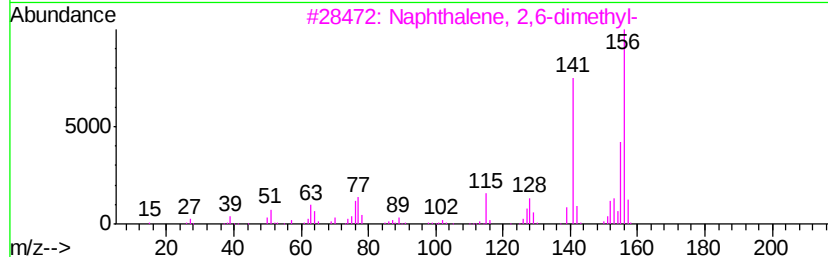
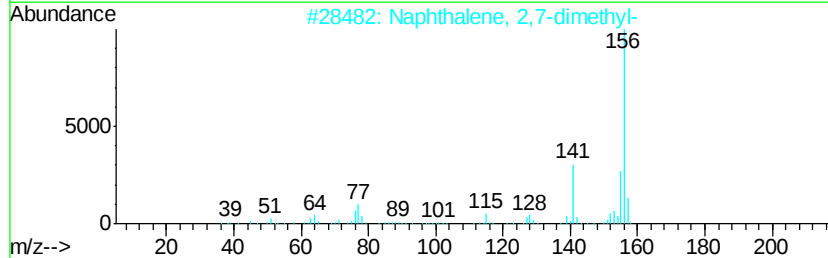
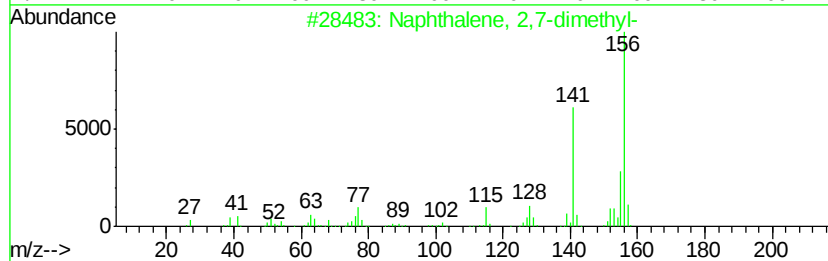
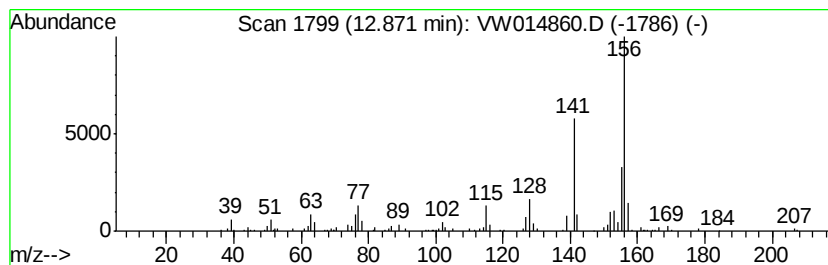
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Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 4 Naphthalene, 2,7-dimethyl- Concentration Rank 1

| R.T.  | EstConc     | Area   | Relative to ISTD       | R.T.  |
|-------|-------------|--------|------------------------|-------|
| 12.87 | 127.74 ug/L | 415603 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# | of | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------|-----|---------|-------------|------|
| 1    | 5  | Naphthalene, 2,7-dimethyl- | 156 | C12H12  | 000582-16-1 | 96   |
| 2    |    | Naphthalene, 2,7-dimethyl- | 156 | C12H12  | 000582-16-1 | 95   |
| 3    |    | Naphthalene, 2,6-dimethyl- | 156 | C12H12  | 000581-42-0 | 95   |
| 4    |    | Naphthalene, 1,7-dimethyl- | 156 | C12H12  | 000575-37-1 | 95   |
| 5    |    | Naphthalene, 1,6-dimethyl- | 156 | C12H12  | 000575-43-9 | 95   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW020420\  
Data File : VW014860.D  
Acq On : 04 Feb 2020 14:54  
Operator : SY/VA  
Sample : L1323-13  
Misc : 5.01G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
GAT51

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM020320S.M  
Quant Title : VOC Analysis

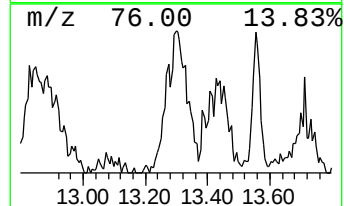
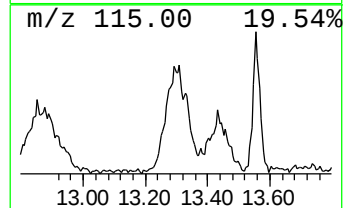
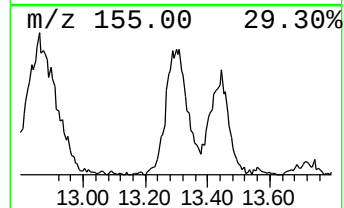
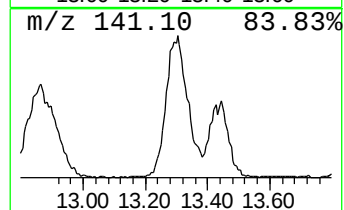
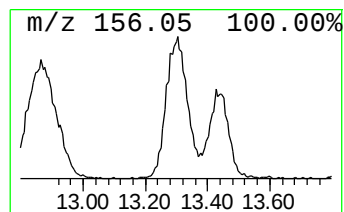
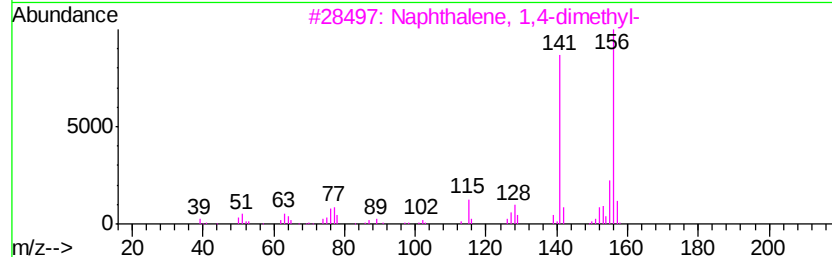
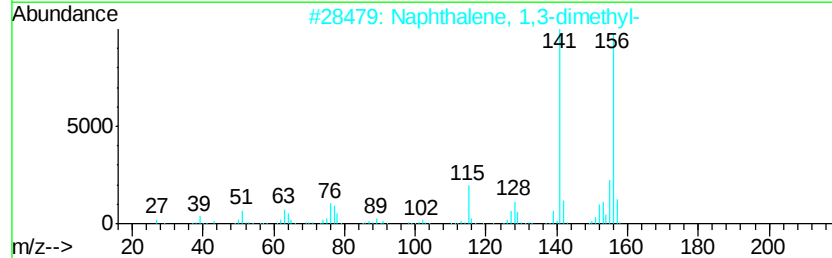
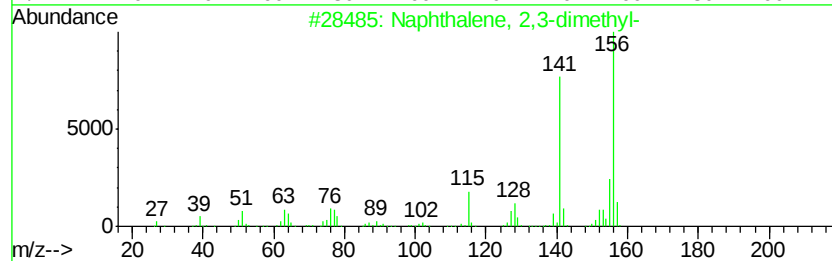
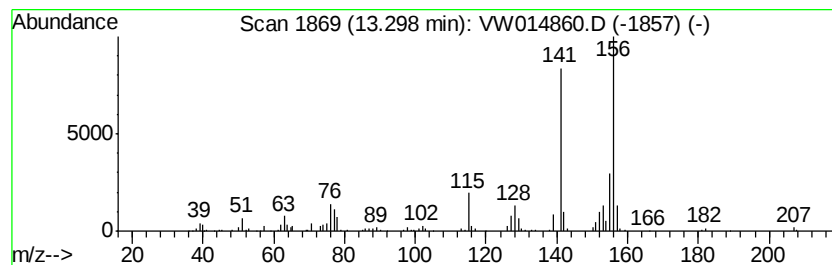
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TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 Naphthalene, 2,3-dimethyl- Concentration Rank 2

| R.T.  | EstConc     | Area   | Relative to ISTD       | R.T.  |
|-------|-------------|--------|------------------------|-------|
| 13.30 | 117.83 ug/L | 383370 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# of | 5 | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|---------|---|----------------------------|-----|---------|-------------|------|
| 1       |   | Naphthalene, 2,3-dimethyl- | 156 | C12H12  | 000581-40-8 | 96   |
| 2       |   | Naphthalene, 1,3-dimethyl- | 156 | C12H12  | 000575-41-7 | 96   |
| 3       |   | Naphthalene, 1,4-dimethyl- | 156 | C12H12  | 000571-58-4 | 96   |
| 4       |   | Naphthalene, 2,7-dimethyl- | 156 | C12H12  | 000582-16-1 | 96   |
| 5       |   | Naphthalene, 1,6-dimethyl- | 156 | C12H12  | 000575-43-9 | 95   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW020420\  
Data File : VW014860.D  
Acq On : 04 Feb 2020 14:54  
Operator : SY/VA  
Sample : L1323-13  
Misc : 5.01G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
GAT51

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM020320S.M  
Quant Title : VOC Analysis

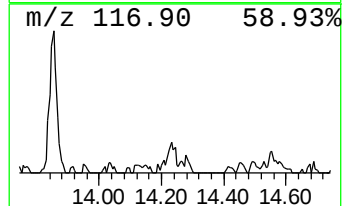
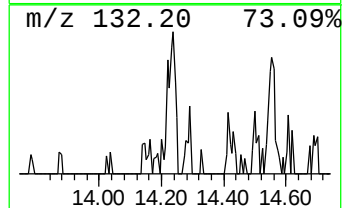
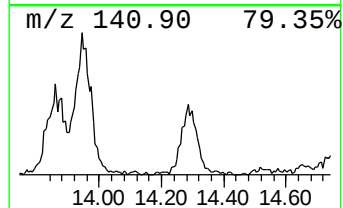
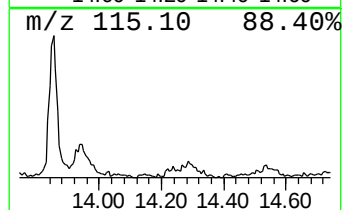
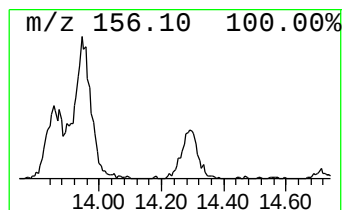
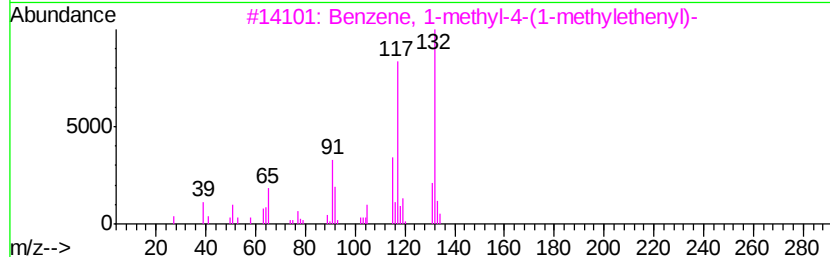
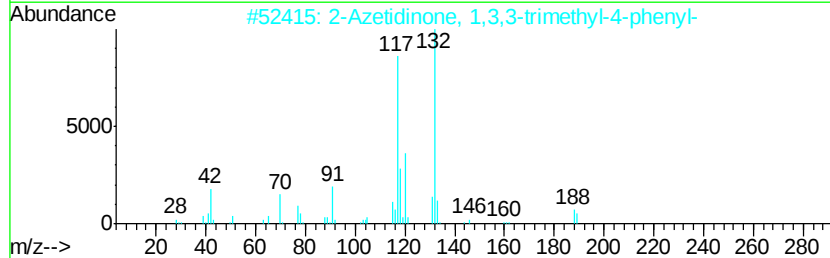
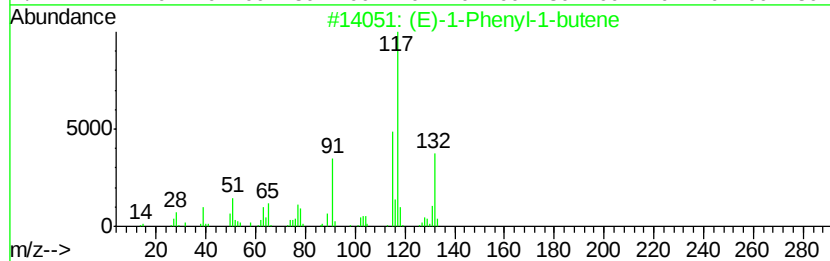
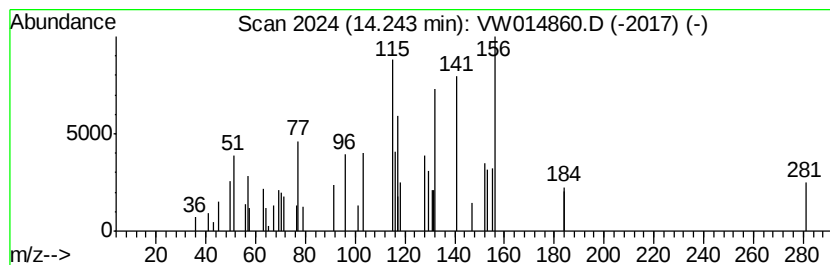
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 7 unknown-03 Concentration Rank 13

| R.T.  | EstConc   | Area | Relative to ISTD       | R.T.  |
|-------|-----------|------|------------------------|-------|
| 14.24 | 1.72 ug/L | 5611 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# | of | Tentative ID                             | MW  | MolForm  | CAS#        | Qual |
|------|----|------------------------------------------|-----|----------|-------------|------|
| 1    | 5  | (E)-1-Phenyl-1-butene                    | 132 | C10H12   | 001005-64-7 | 22   |
| 2    |    | 2-Azetidinone, 1,3,3-trimethyl-4-phenyl- | 189 | C12H15NO | 029668-85-7 | 10   |
| 3    |    | Benzene, 1-methyl-4-(1-methylethyl)-     | 132 | C10H12   | 001195-32-0 | 10   |
| 4    |    | Tin, chlorotris(1-propynyl)-             | 272 | C9H9ClSn | 156486-60-1 | 10   |
| 5    |    | 1-Phenyl-1-butene                        | 132 | C10H12   | 000824-90-8 | 10   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW020420\  
Data File : VW014860.D  
Acq On : 04 Feb 2020 14:54  
Operator : SY/VA  
Sample : L1323-13  
Misc : 5.01G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

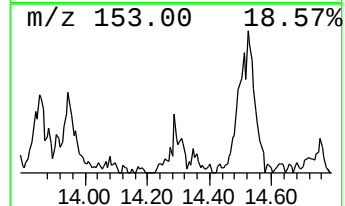
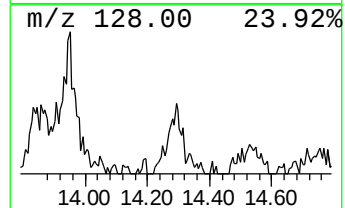
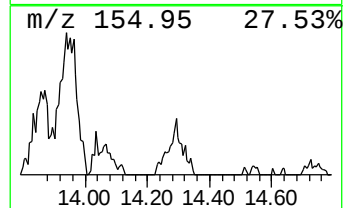
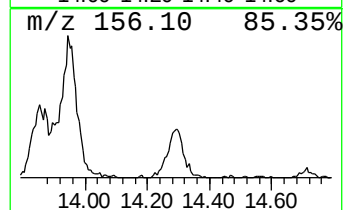
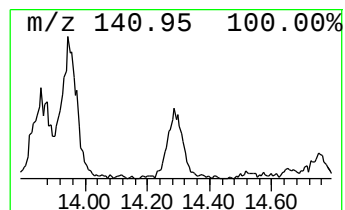
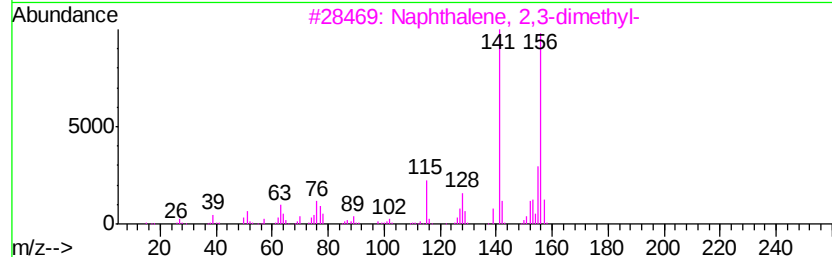
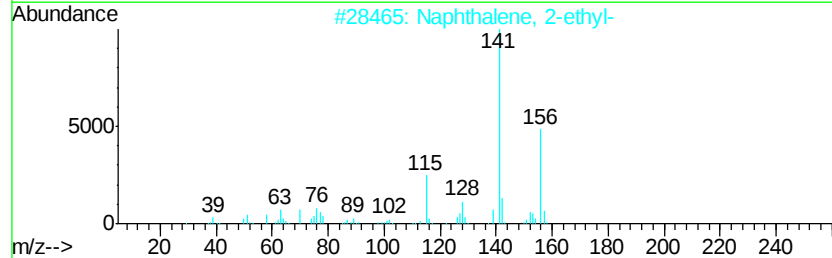
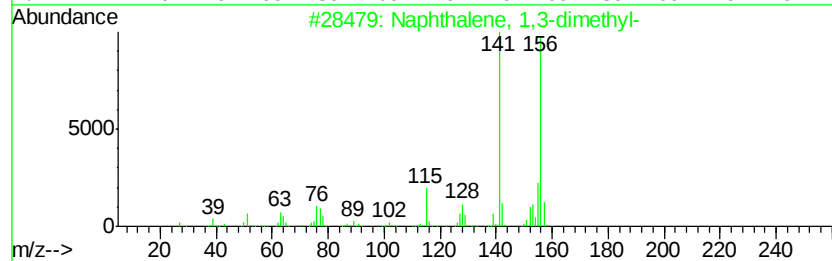
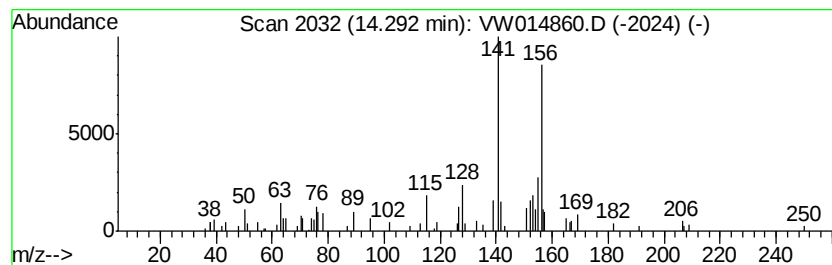
Instrument :  
MSVOA\_W  
ClientSampleId :  
GAT51

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM020320S.M  
Quant Title : VOC Analysis

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

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Peak Number 8 Naphthalene, 1,3-dimethyl- Concentration Rank 6

| R.T.    | EstConc    | Area                       | Relative to ISTD       | R.T.           |
|---------|------------|----------------------------|------------------------|----------------|
| 14.29   | 15.83 ug/L | 51512                      | 1,4-Dichlorobenzene-d4 | 13.55          |
| Hit# of | 5          | Tentative ID               | MW MolForm             | CAS# Qual      |
| 1       |            | Naphthalene, 1,3-dimethyl- | 156 C12H12             | 000575-41-7 95 |
| 2       |            | Naphthalene, 2-ethyl-      | 156 C12H12             | 000939-27-5 94 |
| 3       |            | Naphthalene, 2,3-dimethyl- | 156 C12H12             | 000581-40-8 91 |
| 4       |            | Naphthalene, 1,5-dimethyl- | 156 C12H12             | 000571-61-9 90 |
| 5       |            | Naphthalene, 2,6-dimethyl- | 156 C12H12             | 000581-42-0 90 |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW020420\  
Data File : VW014860.D  
Acq On : 04 Feb 2020 14:54  
Operator : SY/VA  
Sample : L1323-13  
Misc : 5.01G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
GAT51

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM020320S.M  
Quant Title : VOC Analysis

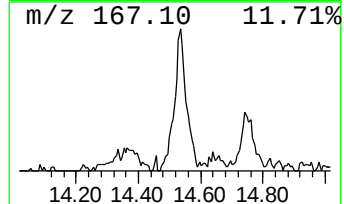
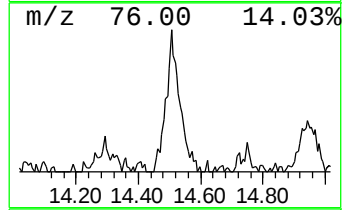
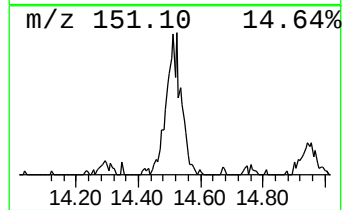
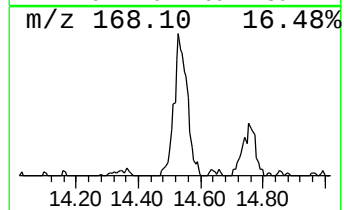
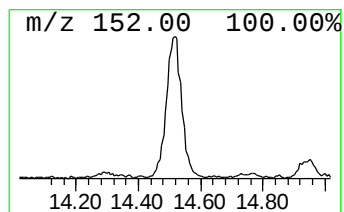
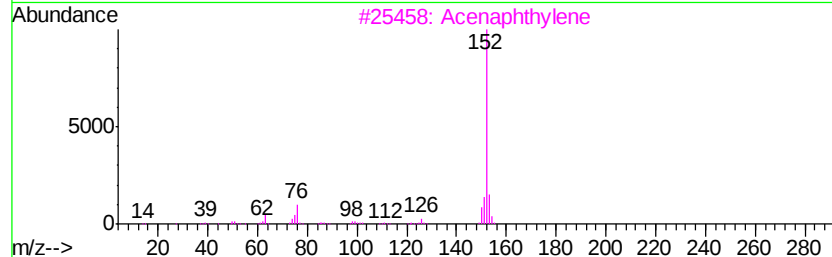
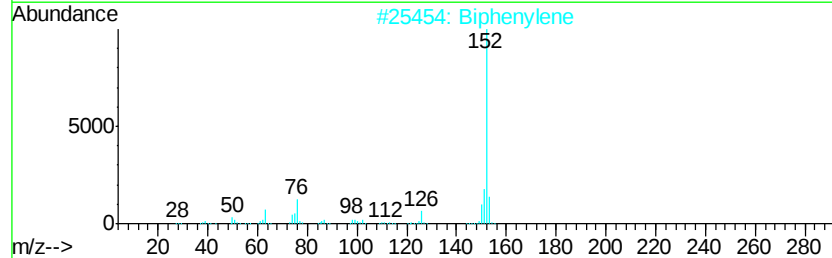
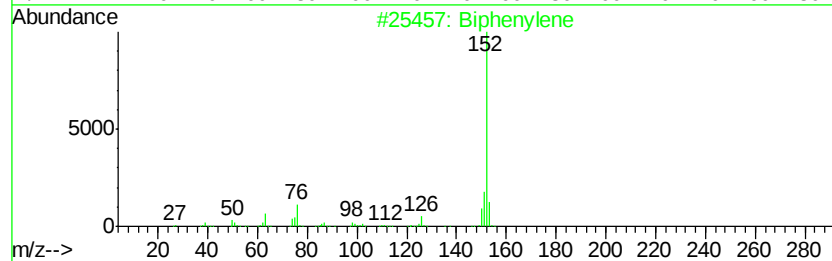
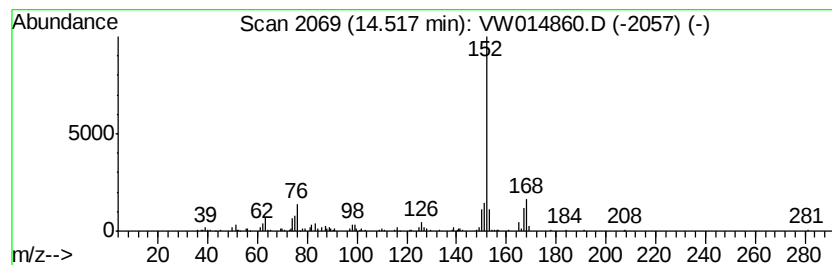
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 9 Biphenylene Concentration Rank 4

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 14.52 | 52.35 ug/L | 170319 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# of | 5                                   | Tentative ID | MW  | MolForm | CAS#         | Qual |
|---------|-------------------------------------|--------------|-----|---------|--------------|------|
| 1       | Biphenylene                         |              | 152 | C12H8   | 000259-79-0  | 76   |
| 2       | Biphenylene                         |              | 152 | C12H8   | 000259-79-0  | 76   |
| 3       | Acenaphthylene                      |              | 152 | C12H8   | 000208-96-8  | 62   |
| 4       | (6Balpha,7beta,11alpha,11aalpha)... |              | 334 | C25H18O | 1000241-69-8 | 59   |
| 5       | Acenaphthylene                      |              | 152 | C12H8   | 000208-96-8  | 58   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW020420\  
Data File : VW014860.D  
Acq On : 04 Feb 2020 14:54  
Operator : SY/VA  
Sample : L1323-13  
Misc : 5.01G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
GAT51

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM020320S.M  
Quant Title : VOC Analysis

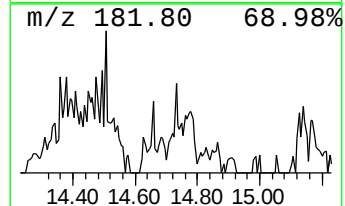
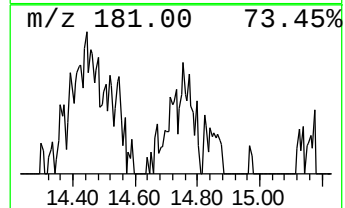
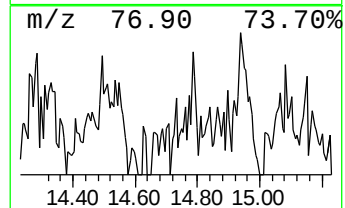
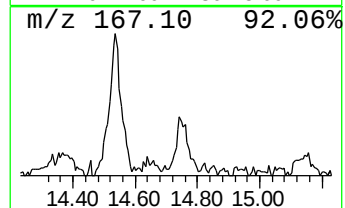
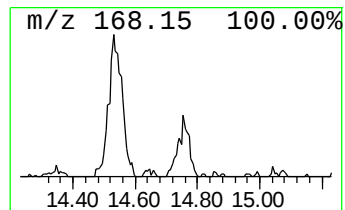
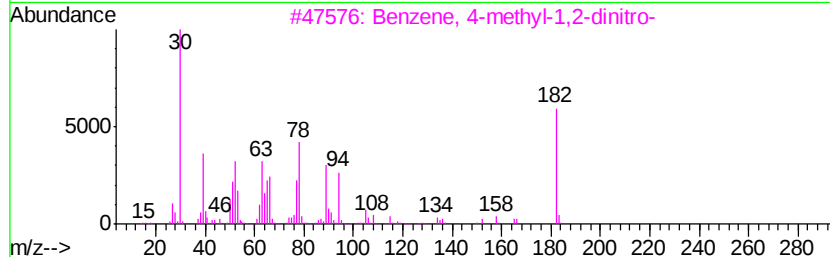
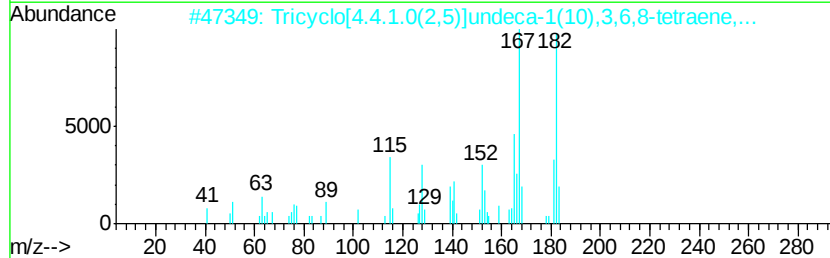
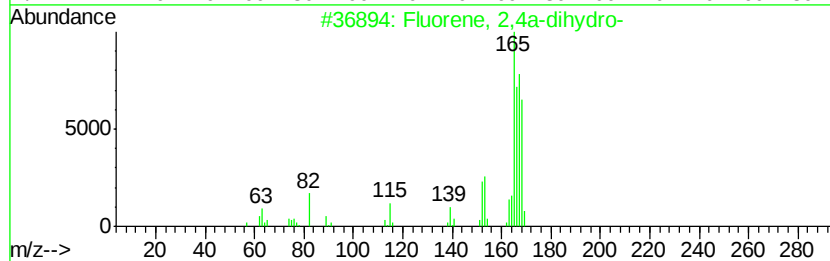
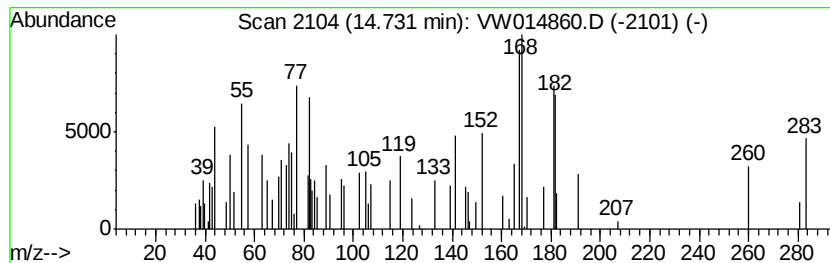
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 10 unknown-04 Concentration Rank 11

| R.T.  | EstConc   | Area | Relative to ISTD       | R.T.  |
|-------|-----------|------|------------------------|-------|
| 14.73 | 1.74 ug/L | 5668 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm   | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|-----------|-------------|------|
| 1    |    |   | Fluorene, 2,4a-dihydro-             | 168 | C13H12    | 059247-36-8 | 22   |
| 2    |    |   | Tricyclo[4.4.1.0(2,5)]undeca-1(1... | 182 | C14H14    | 055836-29-8 | 14   |
| 3    |    |   | Benzene, 4-methyl-1,2-dinitro-      | 182 | C7H6N2O4  | 000610-39-9 | 12   |
| 4    |    |   | 1-(6-Hydroxyimidazo[2,1-b]thiazo... | 182 | C7H6N2O2S | 067073-26-1 | 11   |
| 5    |    |   | Benzene, 1,2,3-trimethoxy-5-methyl- | 182 | C10H14O3  | 006443-69-2 | 11   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW020420\  
Data File : VW014860.D  
Acq On : 04 Feb 2020 14:54  
Operator : SY/VA  
Sample : L1323-13  
Misc : 5.01G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
GAT51

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM020320S.M  
Quant Title : VOC Analysis

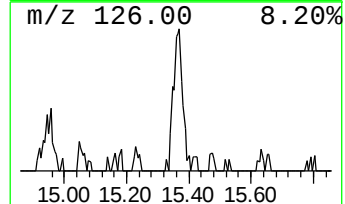
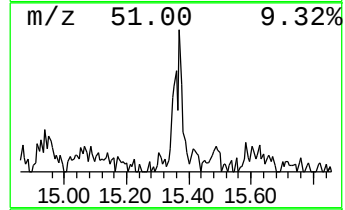
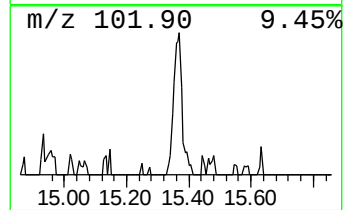
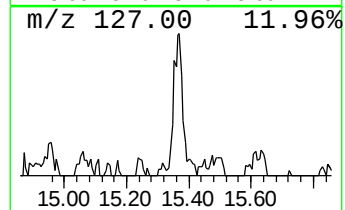
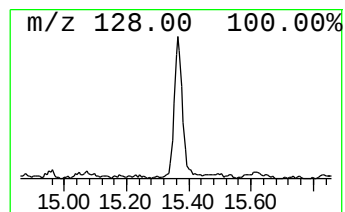
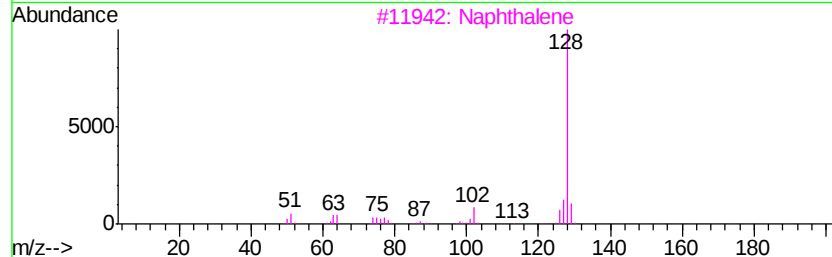
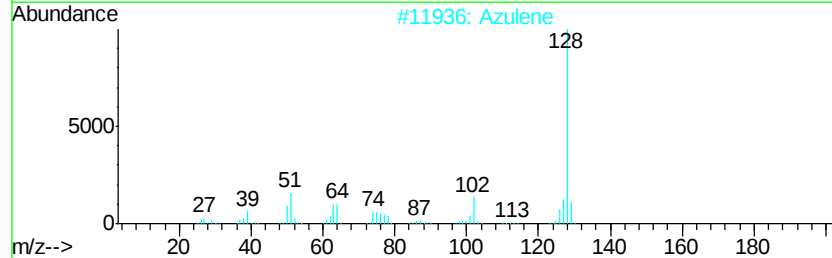
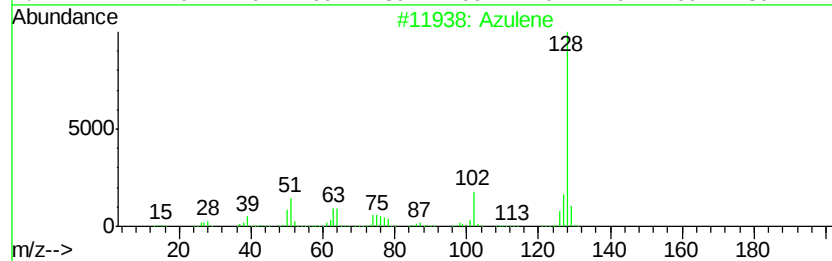
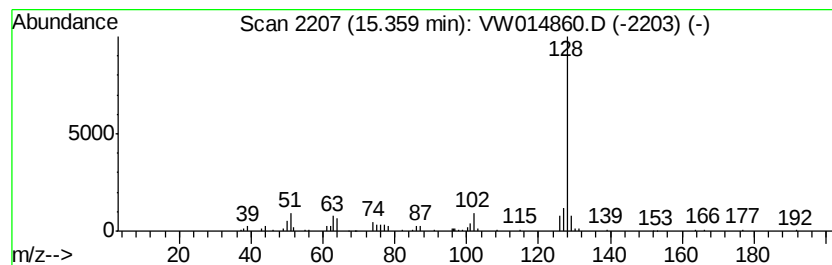
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 11 Azulene Concentration Rank 8

| R.T.  | EstConc    | Area  | Relative to ISTD       | R.T.  |
|-------|------------|-------|------------------------|-------|
| 15.36 | 11.64 ug/L | 37872 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# | of | Tentative ID | MW  | MolForm | CAS#        | Qual |
|------|----|--------------|-----|---------|-------------|------|
| 1    | 5  | Azulene      | 128 | C10H8   | 000275-51-4 | 94   |
| 2    |    | Azulene      | 128 | C10H8   | 000275-51-4 | 91   |
| 3    |    | Naphthalene  | 128 | C10H8   | 000091-20-3 | 91   |
| 4    |    | Naphthalene  | 128 | C10H8   | 000091-20-3 | 91   |
| 5    |    | Naphthalene  | 128 | C10H8   | 000091-20-3 | 91   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW020420\  
Data File : VW014860.D  
Acq On : 04 Feb 2020 14:54  
Operator : SY/VA  
Sample : L1323-13  
Misc : 5.01G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
GAT51

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM020320S.M  
Quant Title : VOC Analysis

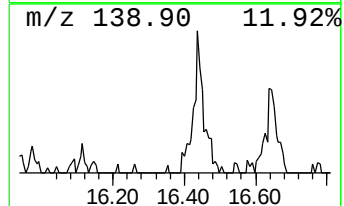
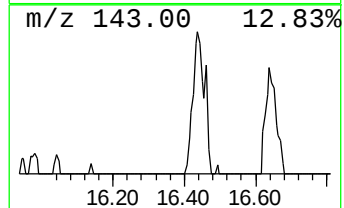
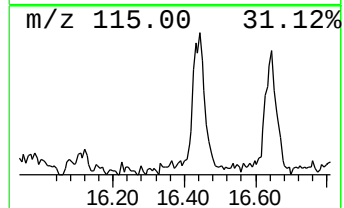
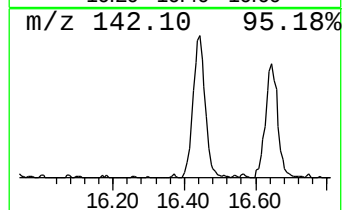
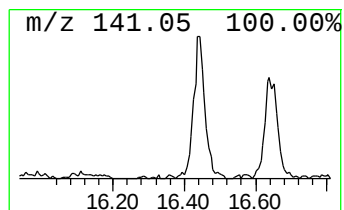
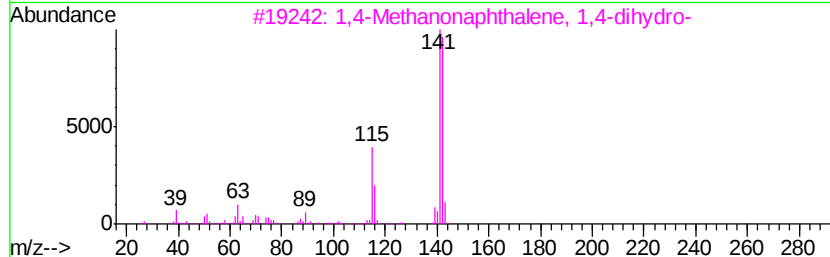
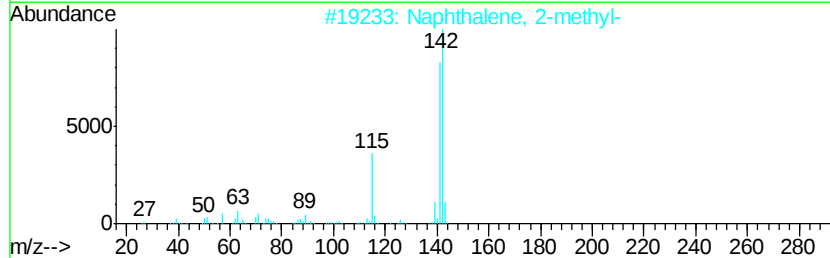
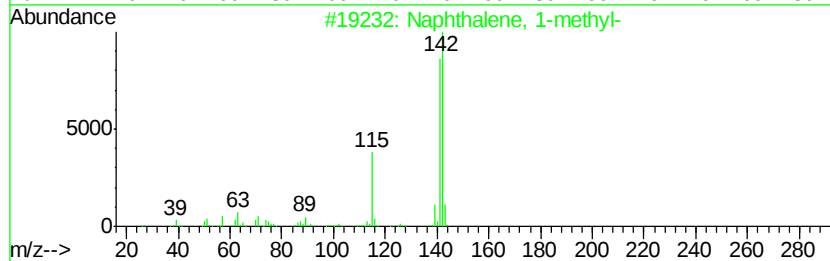
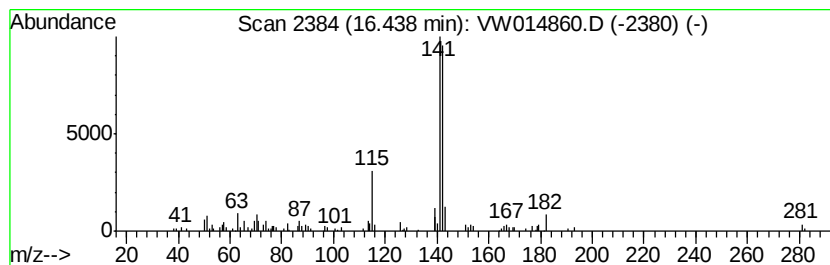
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 12 Naphthalene, 1-methyl- Concentration Rank 5

| R.T.  | EstConc    | Area  | Relative to ISTD       | R.T.  |
|-------|------------|-------|------------------------|-------|
| 16.44 | 17.12 ug/L | 55709 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Naphthalene, 1-methyl-              | 142 | C11H10  | 000090-12-0 | 90   |
| 2    |    | Naphthalene, 2-methyl-              | 142 | C11H10  | 000091-57-6 | 90   |
| 3    |    | 1,4-Methanonaphthalene, 1,4-dihv... | 142 | C11H10  | 004453-90-1 | 87   |
| 4    |    | Benzocycloheptatriene               | 142 | C11H10  | 000264-09-5 | 87   |
| 5    |    | 1H-Indene, 1-ethylidene-            | 142 | C11H10  | 002471-83-2 | 87   |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW020420\  
Data File : VW014860.D  
Acq On : 04 Feb 2020 14:54  
Operator : SY/VA  
Sample : L1323-13  
Misc : 5.01G/10ML/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
GAT51

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM020320S.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 |
| unknown-01           | 10.04 | 8.9     | ug/L  | 47929    | 1                     | 8.84  | 135238 | 25.0 |
| unknown-02           | 11.07 | 1.7     | ug/L  | 10354    | 2                     | 11.63 | 148703 | 25.0 |
| Naphthalene, 2,7-... | 12.87 | 127.7   | ug/L  | 415603   | 3                     | 13.55 | 81339  | 25.0 |
| Naphthalene, 2,3-... | 13.30 | 117.8   | ug/L  | 383370   | 3                     | 13.55 | 81339  | 25.0 |
| unknown-03           | 14.24 | 1.7     | ug/L  | 5611     | 3                     | 13.55 | 81339  | 25.0 |
| Naphthalene, 1,3-... | 14.29 | 15.8    | ug/L  | 51512    | 3                     | 13.55 | 81339  | 25.0 |
| Biphenylene          | 14.52 | 52.4    | ug/L  | 170319   | 3                     | 13.55 | 81339  | 25.0 |
| unknown-04           | 14.73 | 1.7     | ug/L  | 5668     | 3                     | 13.55 | 81339  | 25.0 |
| Azulene              | 15.36 | 11.6    | ug/L  | 37872    | 3                     | 13.55 | 81339  | 25.0 |
| Naphthalene, 1-me... | 16.44 | 17.1    | ug/L  | 55709    | 3                     | 13.55 | 81339  | 25.0 |