

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW012720\  
 Data File : VW014774.D  
 Acq On : 27 Jan 2020 19:13  
 Operator : SY/VA  
 Sample : L1271-12  
 Misc : 5.04G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 GAT03

## 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\SOM2WLM012720S.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      | 2.160    | 38         | 42       | 45        | rBV2  | 3716        | 5829       | 0.48%        | 0.049%     |
| 2      | 2.221    | 48         | 52       | 58        | rVV8  | 3009        | 8746       | 0.72%        | 0.074%     |
| 3      | 2.349    | 67         | 73       | 83        | rVB   | 127653      | 216816     | 17.74%       | 1.826%     |
| 4      | 2.885    | 155        | 161      | 173       | rVB   | 84031       | 185581     | 15.19%       | 1.563%     |
| 5      | 3.355    | 235        | 238      | 239       | rBV3  | 816         | 888        | 0.07%        | 0.007%     |
| 6      | 3.605    | 276        | 279      | 282       | rVB3  | 1126        | 1595       | 0.13%        | 0.013%     |
| 7      | 3.641    | 282        | 285      | 286       | rBV2  | 757         | 725        | 0.06%        | 0.006%     |
| 8      | 3.684    | 286        | 292      | 297       | rVV5  | 1536        | 4062       | 0.33%        | 0.034%     |
| 9      | 3.849    | 318        | 319      | 321       | rBV2  | 823         | 799        | 0.07%        | 0.007%     |
| 10     | 3.867    | 321        | 322      | 324       | rVV2  | 1264        | 849        | 0.07%        | 0.007%     |
| 11     | 3.928    | 328        | 332      | 334       | rVV2  | 606         | 780        | 0.06%        | 0.007%     |
| 12     | 4.013    | 334        | 346      | 357       | rVV   | 166641      | 442538     | 36.22%       | 3.728%     |
| 13     | 4.129    | 359        | 365      | 369       | rVV3  | 5425        | 14059      | 1.15%        | 0.118%     |
| 14     | 4.178    | 372        | 373      | 377       | rVV3  | 1215        | 1393       | 0.11%        | 0.012%     |
| 15     | 4.257    | 382        | 386      | 387       | rVV3  | 1299        | 1485       | 0.12%        | 0.013%     |
| 16     | 4.294    | 390        | 392      | 395       | rVB2  | 643         | 791        | 0.06%        | 0.007%     |
| 17     | 4.330    | 395        | 398      | 400       | rBV3  | 861         | 1047       | 0.09%        | 0.009%     |
| 18     | 4.379    | 400        | 406      | 412       | rVV5  | 1552        | 4142       | 0.34%        | 0.035%     |
| 19     | 4.507    | 424        | 427      | 429       | rVB2  | 823         | 742        | 0.06%        | 0.006%     |
| 20     | 4.653    | 449        | 451      | 453       | rBV2  | 861         | 821        | 0.07%        | 0.007%     |
| 21     | 4.690    | 454        | 457      | 463       | rVB6  | 875         | 1495       | 0.12%        | 0.013%     |
| 22     | 4.909    | 483        | 493      | 504       | rVV2  | 16338       | 51459      | 4.21%        | 0.433%     |
| 23     | 4.995    | 505        | 507      | 509       | rVV3  | 1543        | 1556       | 0.13%        | 0.013%     |
| 24     | 5.019    | 509        | 511      | 513       | rVV2  | 1307        | 1547       | 0.13%        | 0.013%     |
| 25     | 5.080    | 516        | 521      | 523       | rVB3  | 1085        | 1181       | 0.10%        | 0.010%     |
| 26     | 5.427    | 568        | 578      | 585       | rVB7  | 2025        | 7029       | 0.58%        | 0.059%     |
| 27     | 5.647    | 612        | 614      | 618       | rBV2  | 617         | 726        | 0.06%        | 0.006%     |
| 28     | 5.842    | 645        | 646      | 649       | rVB2  | 1136        | 815        | 0.07%        | 0.007%     |
| 29     | 5.940    | 651        | 662      | 671       | rBV6  | 3943        | 11671      | 0.96%        | 0.098%     |
| 30     | 6.135    | 693        | 694      | 698       | rVB3  | 841         | 862        | 0.07%        | 0.007%     |
| 31     | 6.196    | 702        | 704      | 707       | rBV2  | 927         | 1174       | 0.10%        | 0.010%     |
| 32     | 6.342    | 725        | 728      | 732       | rVB3  | 695         | 1141       | 0.09%        | 0.010%     |
| 33     | 6.433    | 739        | 743      | 746       | rVB2  | 738         | 1001       | 0.08%        | 0.008%     |
| 34     | 6.568    | 762        | 765      | 767       | rVV2  | 721         | 859        | 0.07%        | 0.007%     |

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 ClientSampleId :  
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 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\SOM2WLM012720S.M  
 Title : VOC Analysis

|    |        |      |      |      |      |        |         |         |         |
|----|--------|------|------|------|------|--------|---------|---------|---------|
| 35 | 6.824  | 804  | 807  | 810  | rVB  | 741    | 810     | 0.07%   | 0.007%  |
| 36 | 7.080  | 839  | 849  | 854  | rBV  | 35488  | 102401  | 8.38%   | 0.863%  |
| 37 | 7.250  | 869  | 877  | 889  | rVB  | 126391 | 316499  | 25.90%  | 2.666%  |
| 38 | 7.647  | 932  | 942  | 953  | rBV  | 202425 | 491703  | 40.24%  | 4.142%  |
| 39 | 7.860  | 974  | 977  | 979  | rBV  | 1232   | 1470    | 0.12%   | 0.012%  |
| 40 | 7.958  | 986  | 993  | 1000 | rVB8 | 2931   | 7148    | 0.59%   | 0.060%  |
| 41 | 8.067  | 1009 | 1011 | 1013 | rBV3 | 650    | 745     | 0.06%   | 0.006%  |
| 42 | 8.146  | 1019 | 1024 | 1026 | rBV3 | 749    | 1351    | 0.11%   | 0.011%  |
| 43 | 8.275  | 1035 | 1045 | 1061 | rBV2 | 404670 | 1221855 | 100.00% | 10.292% |
| 44 | 8.841  | 1129 | 1138 | 1151 | rVV  | 425167 | 842650  | 68.96%  | 7.098%  |
| 45 | 9.079  | 1171 | 1177 | 1185 | rVB6 | 2623   | 4591    | 0.38%   | 0.039%  |
| 46 | 9.165  | 1189 | 1191 | 1193 | rVB  | 792    | 734     | 0.06%   | 0.006%  |
| 47 | 9.274  | 1200 | 1209 | 1219 | rBV  | 271172 | 557324  | 45.61%  | 4.694%  |
| 48 | 9.628  | 1265 | 1267 | 1268 | rBV  | 895    | 831     | 0.07%   | 0.007%  |
| 49 | 9.695  | 1277 | 1278 | 1284 | rVB3 | 878    | 1058    | 0.09%   | 0.009%  |
| 50 | 9.921  | 1313 | 1315 | 1317 | rVB3 | 820    | 745     | 0.06%   | 0.006%  |
| 51 | 10.036 | 1326 | 1334 | 1346 | rBV  | 125549 | 240723  | 19.70%  | 2.028%  |
| 52 | 10.213 | 1357 | 1363 | 1367 | rBV6 | 2003   | 4290    | 0.35%   | 0.036%  |
| 53 | 10.250 | 1367 | 1369 | 1372 | rVB2 | 757    | 766     | 0.06%   | 0.006%  |
| 54 | 10.323 | 1372 | 1381 | 1387 | rBV  | 507176 | 901654  | 73.79%  | 7.595%  |
| 55 | 10.384 | 1387 | 1391 | 1400 | rVB  | 67743  | 119243  | 9.76%   | 1.004%  |
| 56 | 10.573 | 1416 | 1422 | 1433 | rBV  | 80569  | 149187  | 12.21%  | 1.257%  |
| 57 | 10.701 | 1438 | 1443 | 1450 | rBV2 | 8176   | 14348   | 1.17%   | 0.121%  |
| 58 | 10.859 | 1462 | 1469 | 1474 | rBV3 | 7539   | 13309   | 1.09%   | 0.112%  |
| 59 | 10.920 | 1474 | 1479 | 1494 | rVV  | 127878 | 232713  | 19.05%  | 1.960%  |
| 60 | 11.061 | 1496 | 1502 | 1509 | rVV2 | 14326  | 24301   | 1.99%   | 0.205%  |
| 61 | 11.176 | 1519 | 1521 | 1525 | rVB4 | 1827   | 1895    | 0.16%   | 0.016%  |
| 62 | 11.237 | 1525 | 1531 | 1533 | rBV5 | 1476   | 2049    | 0.17%   | 0.017%  |
| 63 | 11.323 | 1543 | 1545 | 1548 | rBV4 | 845    | 837     | 0.07%   | 0.007%  |
| 64 | 11.365 | 1551 | 1552 | 1557 | rVB4 | 1051   | 821     | 0.07%   | 0.007%  |
| 65 | 11.439 | 1561 | 1564 | 1565 | rBV3 | 1125   | 1362    | 0.11%   | 0.011%  |
| 66 | 11.548 | 1580 | 1582 | 1587 | rVB4 | 1189   | 1683    | 0.14%   | 0.014%  |
| 67 | 11.628 | 1587 | 1595 | 1606 | rBV  | 548418 | 963105  | 78.82%  | 8.112%  |
| 68 | 11.725 | 1608 | 1611 | 1616 | rVB3 | 5990   | 9298    | 0.76%   | 0.078%  |
| 69 | 11.835 | 1622 | 1629 | 1638 | rVV2 | 88221  | 175497  | 14.36%  | 1.478%  |
| 70 | 12.079 | 1666 | 1669 | 1671 | rBV4 | 678    | 830     | 0.07%   | 0.007%  |
| 71 | 12.164 | 1674 | 1683 | 1693 | rBV3 | 76819  | 149886  | 12.27%  | 1.263%  |

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 ALS Vial : 1 Sample Multiplier: 1

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 MSVOA\_W  
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 GAT03

## 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\SOM2WLM012720S.M  
 Title : VOC Analysis

|     |        |      |      |      |      |        |        |        |        |
|-----|--------|------|------|------|------|--------|--------|--------|--------|
| 72  | 12.304 | 1702 | 1706 | 1708 | rBV5 | 1380   | 1740   | 0.14%  | 0.015% |
| 73  | 12.463 | 1727 | 1732 | 1736 | rVB3 | 6801   | 11266  | 0.92%  | 0.095% |
| 74  | 12.603 | 1750 | 1755 | 1763 | rVB6 | 4314   | 9159   | 0.75%  | 0.077% |
| 75  | 12.688 | 1763 | 1769 | 1777 | rBV  | 205824 | 348209 | 28.50% | 2.933% |
| 76  | 12.804 | 1777 | 1788 | 1791 | rBV7 | 5992   | 19103  | 1.56%  | 0.161% |
| 77  | 12.865 | 1792 | 1798 | 1800 | rBV  | 39474  | 64038  | 5.24%  | 0.539% |
| 78  | 12.944 | 1806 | 1811 | 1818 | rVB  | 70871  | 125128 | 10.24% | 1.054% |
| 79  | 13.103 | 1832 | 1837 | 1844 | rVB2 | 23845  | 43421  | 3.55%  | 0.366% |
| 80  | 13.249 | 1854 | 1861 | 1865 | rBV  | 172401 | 277463 | 22.71% | 2.337% |
| 81  | 13.298 | 1865 | 1869 | 1874 | rVV2 | 134934 | 229108 | 18.75% | 1.930% |
| 82  | 13.353 | 1874 | 1878 | 1883 | rVB  | 40761  | 69174  | 5.66%  | 0.583% |
| 83  | 13.554 | 1905 | 1911 | 1921 | rBV2 | 468022 | 879151 | 71.95% | 7.405% |
| 84  | 13.713 | 1933 | 1937 | 1939 | rBV4 | 7554   | 11355  | 0.93%  | 0.096% |
| 85  | 13.755 | 1940 | 1944 | 1947 | rBV2 | 23505  | 37489  | 3.07%  | 0.316% |
| 86  | 13.853 | 1953 | 1960 | 1968 | rVB  | 397851 | 665655 | 54.48% | 5.607% |
| 87  | 13.938 | 1968 | 1974 | 1982 | rBV  | 138889 | 241695 | 19.78% | 2.036% |
| 88  | 14.011 | 1982 | 1986 | 1987 | rBV3 | 9456   | 11277  | 0.92%  | 0.095% |
| 89  | 14.097 | 1997 | 2000 | 2004 | rVB  | 18272  | 24847  | 2.03%  | 0.209% |
| 90  | 14.231 | 2013 | 2022 | 2027 | rBV2 | 48597  | 95665  | 7.83%  | 0.806% |
| 91  | 14.383 | 2044 | 2047 | 2049 | rBV3 | 7918   | 9441   | 0.77%  | 0.080% |
| 92  | 14.414 | 2049 | 2052 | 2055 | rVV  | 14863  | 19887  | 1.63%  | 0.168% |
| 93  | 14.456 | 2056 | 2059 | 2064 | rVB4 | 23242  | 34596  | 2.83%  | 0.291% |
| 94  | 14.688 | 2094 | 2097 | 2101 | rBV4 | 10677  | 16818  | 1.38%  | 0.142% |
| 95  | 14.792 | 2110 | 2114 | 2121 | rBV3 | 32387  | 66195  | 5.42%  | 0.558% |
| 96  | 14.871 | 2123 | 2127 | 2133 | rVB2 | 49759  | 80615  | 6.60%  | 0.679% |
| 97  | 14.950 | 2135 | 2140 | 2146 | rBV  | 88751  | 155992 | 12.77% | 1.314% |
| 98  | 15.365 | 2203 | 2208 | 2219 | rBV  | 232712 | 418383 | 34.24% | 3.524% |
| 99  | 16.438 | 2379 | 2384 | 2391 | rVB  | 87563  | 173225 | 14.18% | 1.459% |
| 100 | 16.645 | 2412 | 2418 | 2427 | rVB  | 84767  | 196118 | 16.05% | 1.652% |

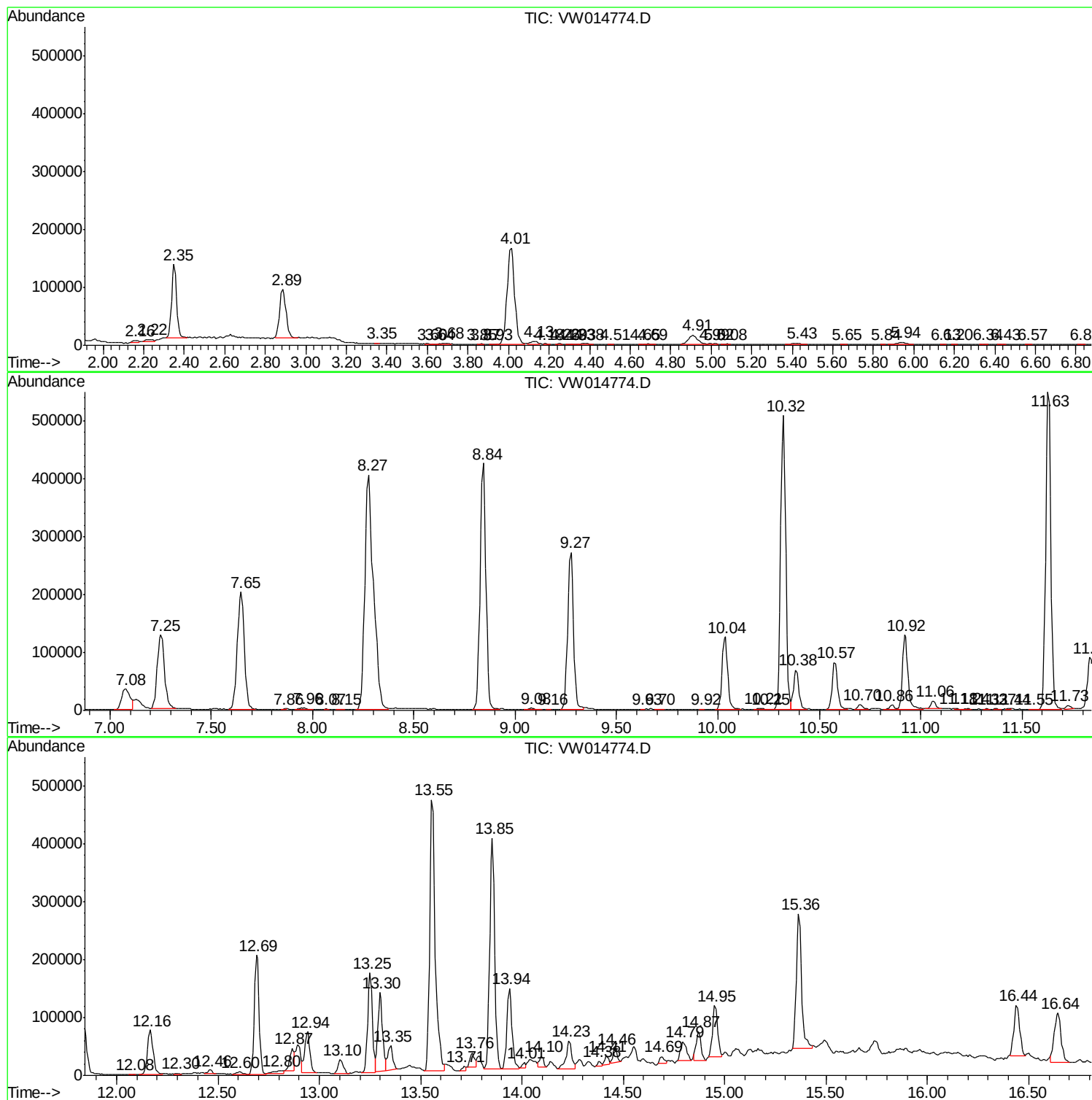
Sum of corrected areas: 11872129

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM012720S.M  
Quant Title : VOC Analysis

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



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW012720\  
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM012720S.M  
Quant Title : VOC Analysis

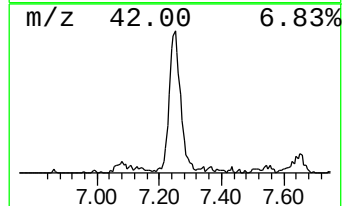
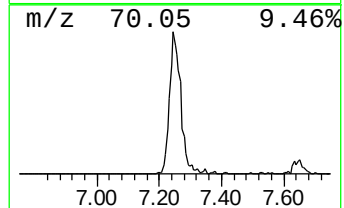
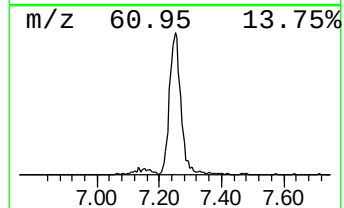
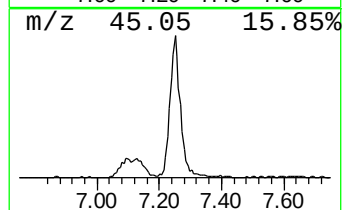
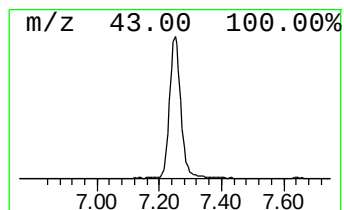
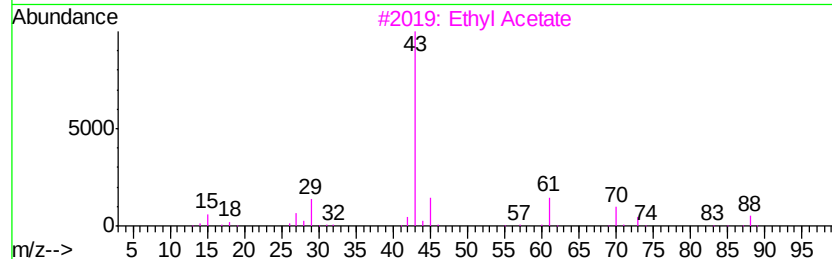
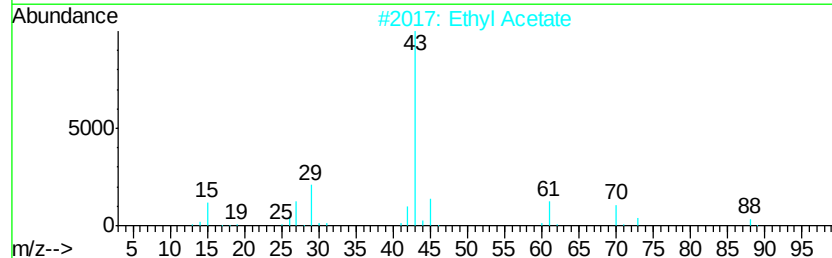
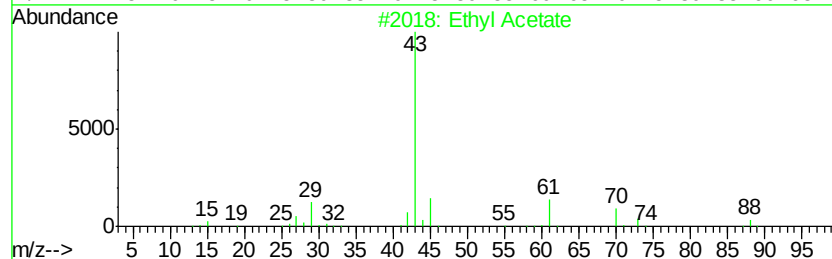
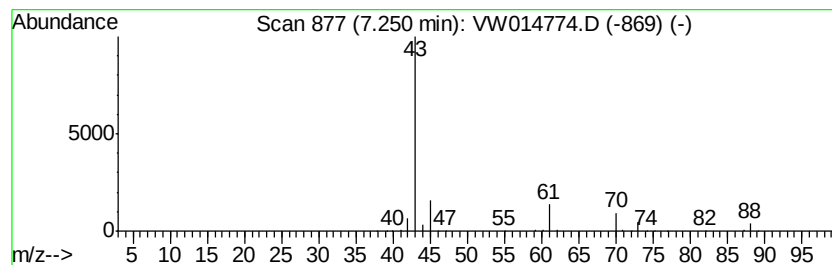
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 Ethyl Acetate Concentration Rank 2

| R.T. | EstConc   | Area   | Relative to ISTD    | R.T. |
|------|-----------|--------|---------------------|------|
| 7.25 | 9.39 ug/L | 316499 | 1,4-Difluorobenzene | 8.84 |

| Hit# | of | Tentative ID    | MW | MolForm | CAS#        | Qual |
|------|----|-----------------|----|---------|-------------|------|
| 1    | 5  | Ethyl Acetate   | 88 | C4H8O2  | 000141-78-6 | 86   |
| 2    |    | Ethyl Acetate   | 88 | C4H8O2  | 000141-78-6 | 86   |
| 3    |    | Ethyl Acetate   | 88 | C4H8O2  | 000141-78-6 | 59   |
| 4    |    | Ethyl Acetate   | 88 | C4H8O2  | 000141-78-6 | 59   |
| 5    |    | CH3C(O)CH2CH2OH | 88 | C4H8O2  | 000590-90-9 | 33   |



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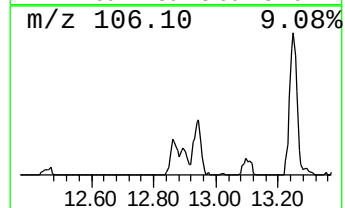
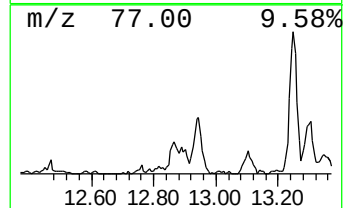
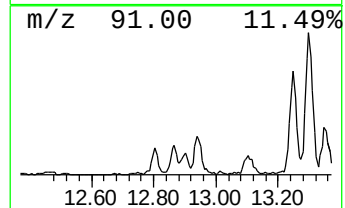
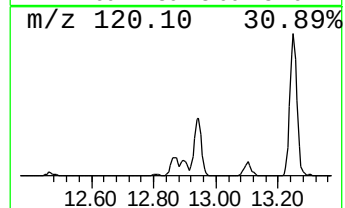
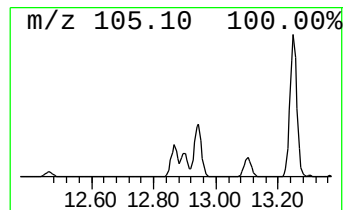
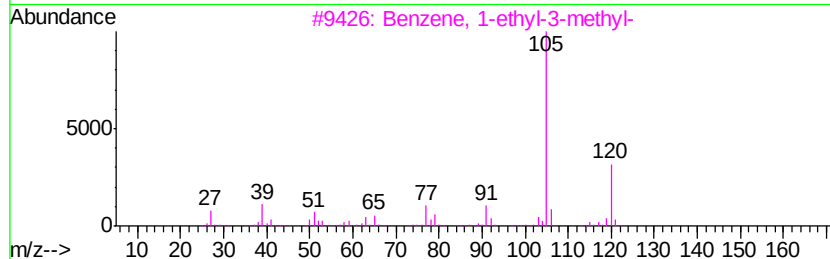
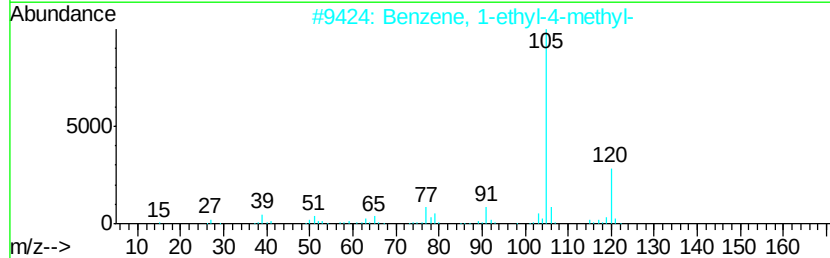
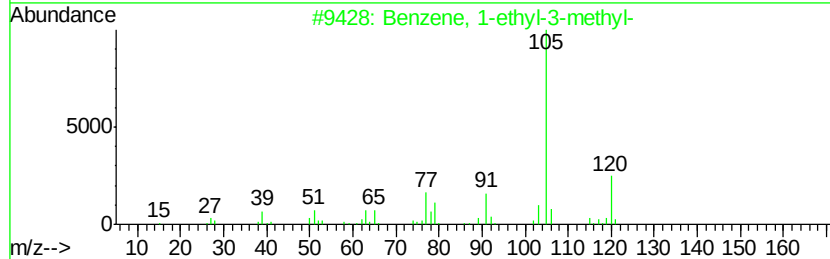
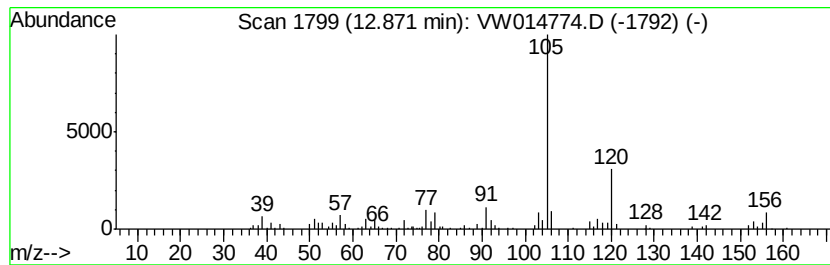
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM012720S.M  
Quant Title : VOC Analysis

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

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

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 12.87 | 1.82 ug/L | 64038 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# | of | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1-ethyl-3-methyl- | 120 | C9H12   | 000620-14-4 | 90   |
| 2    |    | Benzene, 1-ethyl-4-methyl- | 120 | C9H12   | 000622-96-8 | 80   |
| 3    |    | Benzene, 1-ethyl-3-methyl- | 120 | C9H12   | 000620-14-4 | 74   |
| 4    |    | Benzene, 1-ethyl-3-methyl- | 120 | C9H12   | 000620-14-4 | 74   |
| 5    |    | Benzene, 1-ethyl-4-methyl- | 120 | C9H12   | 000622-96-8 | 72   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW012720\  
Data File : VW014774.D  
Acq On : 27 Jan 2020 19:13  
Operator : SY/VA  
Sample : L1271-12  
Misc : 5.04G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
GAT03

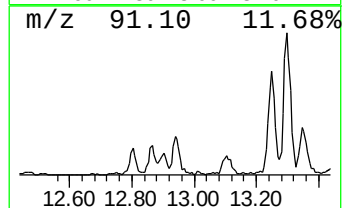
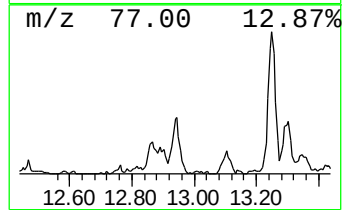
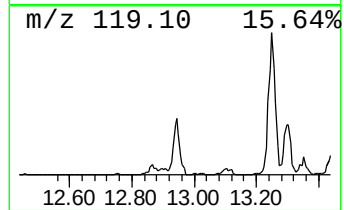
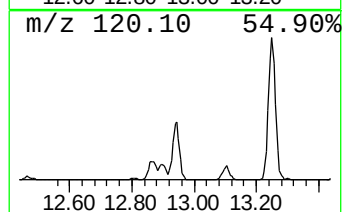
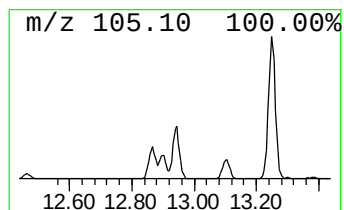
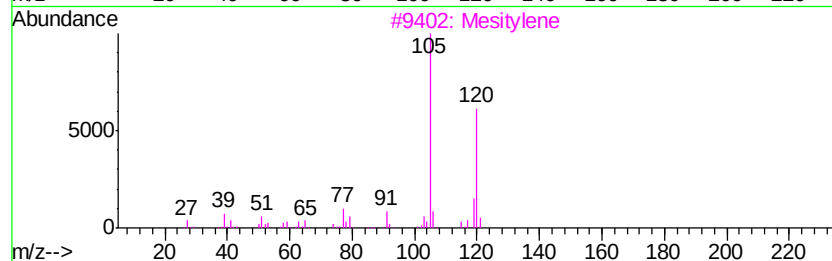
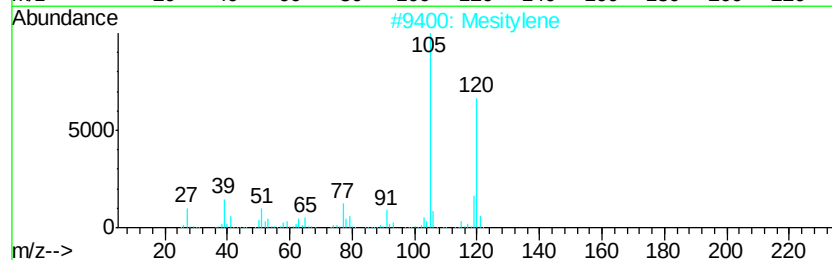
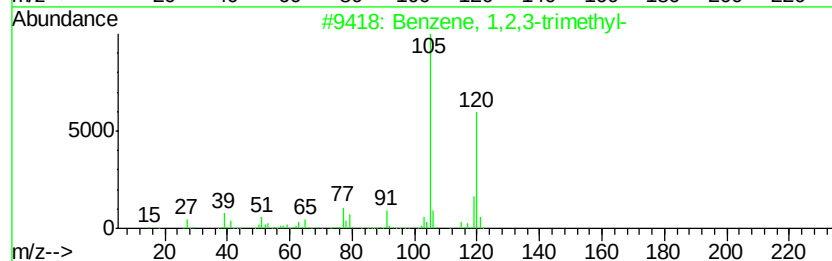
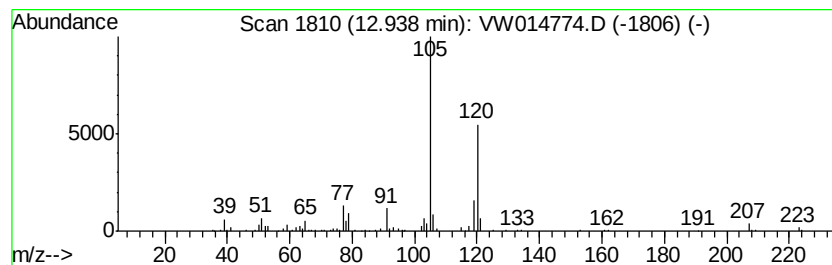
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Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 4 Benzene, 1,2,3-trimethyl- Concentration Rank 10

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 12.94 | 3.56 ug/L | 125128 | 1,4-Dichlorobenzene-d4 | 13.55 |

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



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW012720\  
Data File : VW014774.D  
Acq On : 27 Jan 2020 19:13  
Operator : SY/VA  
Sample : L1271-12  
Misc : 5.04G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
GAT03

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM012720S.M  
Quant Title : VOC Analysis

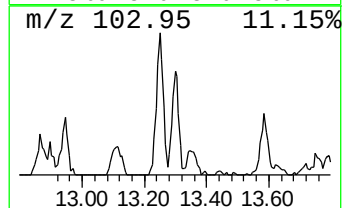
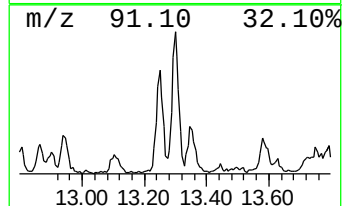
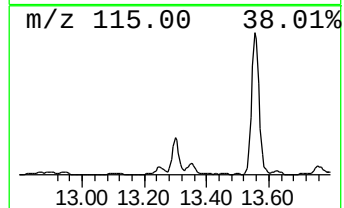
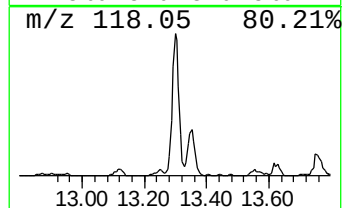
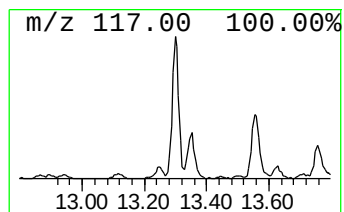
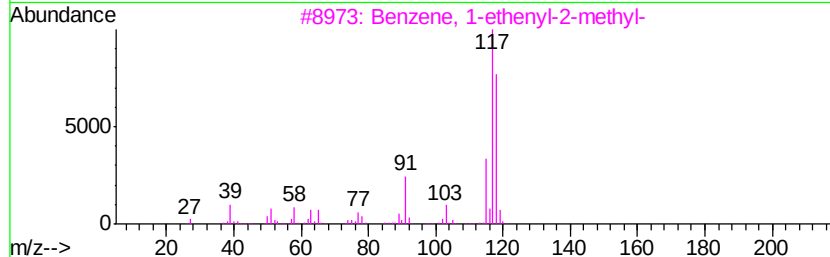
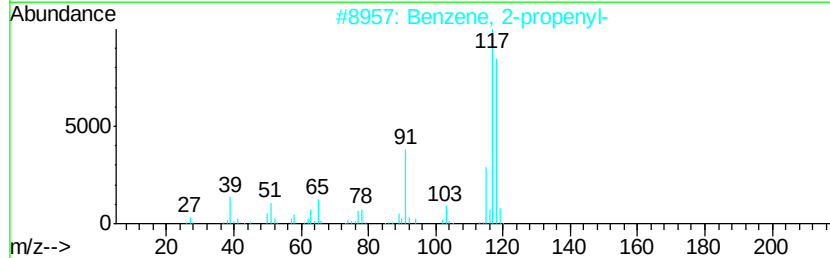
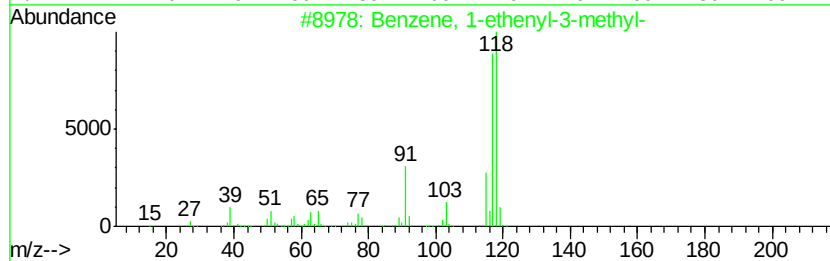
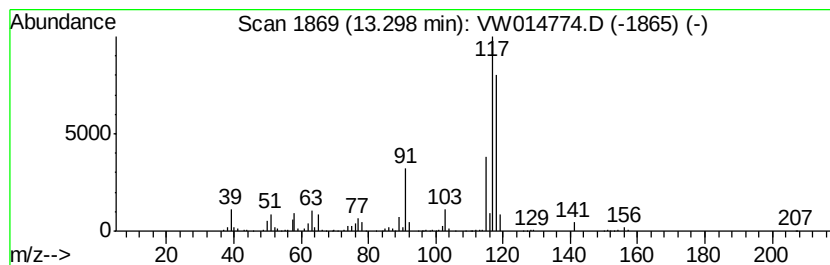
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 13.30 | 6.52 ug/L | 229108 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# | of       | 5                   | Tentative ID | MW    | MolForm     | CAS# | Qual |
|------|----------|---------------------|--------------|-------|-------------|------|------|
| 1    | Benzene, | 1-ethenyl-3-methyl- | 118          | C9H10 | 000100-80-1 | 95   |      |
| 2    | Benzene, | 2-propenyl-         | 118          | C9H10 | 000300-57-2 | 93   |      |
| 3    | Benzene, | 1-ethenyl-2-methyl- | 118          | C9H10 | 000611-15-4 | 93   |      |
| 4    | Benzene, | 1-propenyl-         | 118          | C9H10 | 000637-50-3 | 93   |      |
| 5    | Benzene, | 1-ethenyl-3-methyl- | 118          | C9H10 | 000100-80-1 | 93   |      |





Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW012720\  
Data File : VW014774.D  
Acq On : 27 Jan 2020 19:13  
Operator : SY/VA  
Sample : L1271-12  
Misc : 5.04G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
GAT03

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM012720S.M  
Quant Title : VOC Analysis

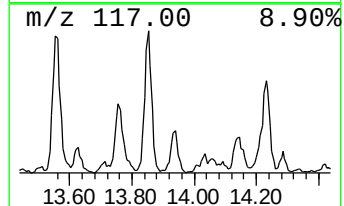
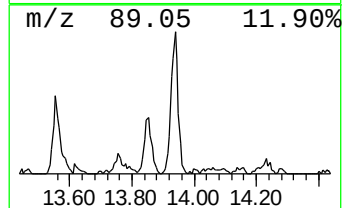
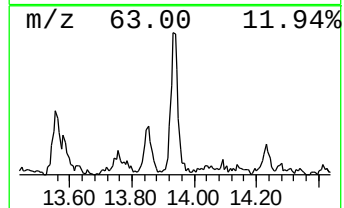
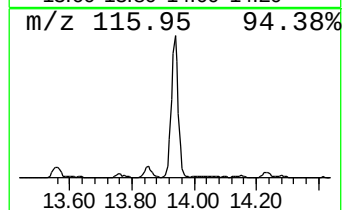
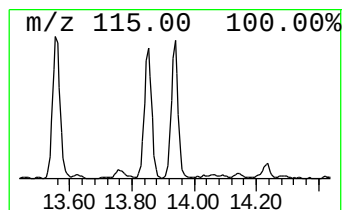
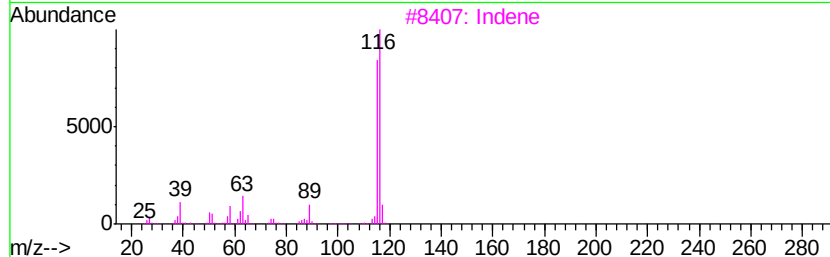
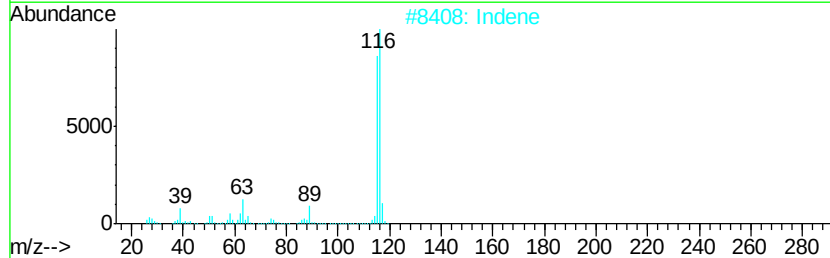
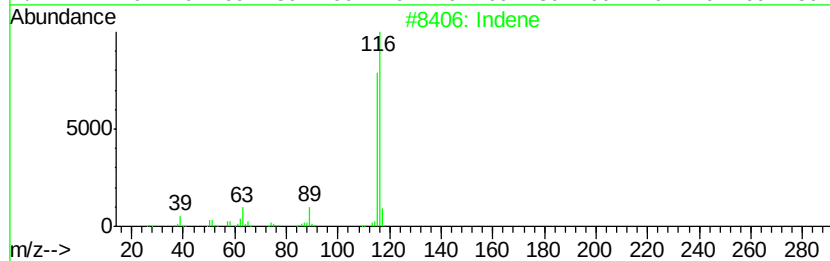
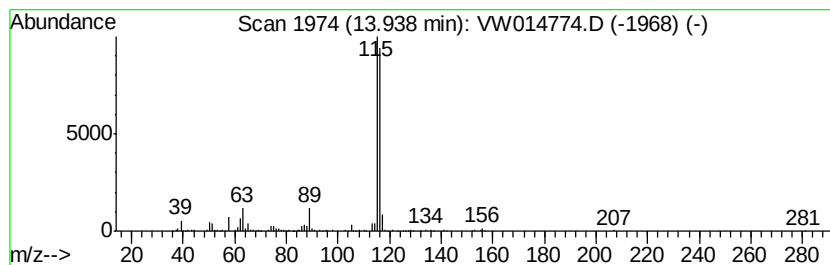
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 8 Indene Concentration Rank 5

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 13.94 | 6.87 ug/L | 241695 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# | of | Tentative ID         | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------|-----|---------|-------------|------|
| 1    | 5  | Indene               | 116 | C9H8    | 000095-13-6 | 97   |
| 2    |    | Indene               | 116 | C9H8    | 000095-13-6 | 95   |
| 3    |    | Indene               | 116 | C9H8    | 000095-13-6 | 94   |
| 4    |    | Benzene, 1-propynyl- | 116 | C9H8    | 000673-32-5 | 91   |
| 5    |    | Benzene, 1-propynyl- | 116 | C9H8    | 000673-32-5 | 91   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW012720\  
Data File : VW014774.D  
Acq On : 27 Jan 2020 19:13  
Operator : SY/VA  
Sample : L1271-12  
Misc : 5.04G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
GAT03

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM012720S.M  
Quant Title : VOC Analysis

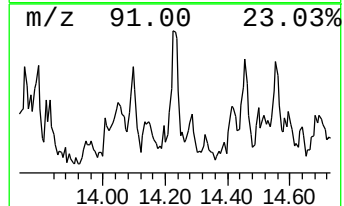
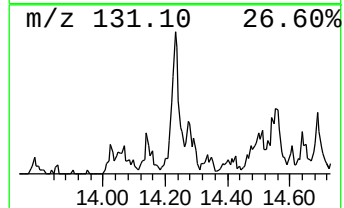
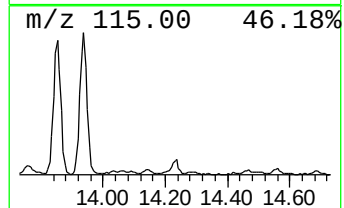
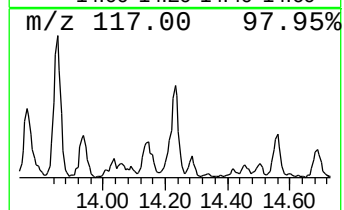
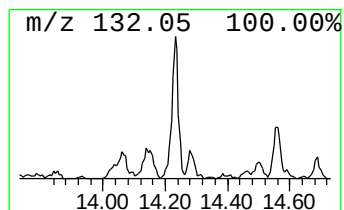
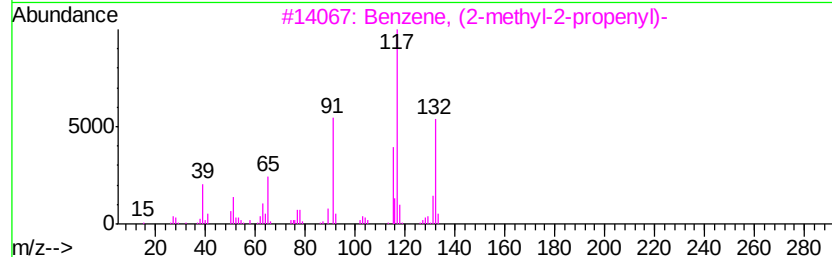
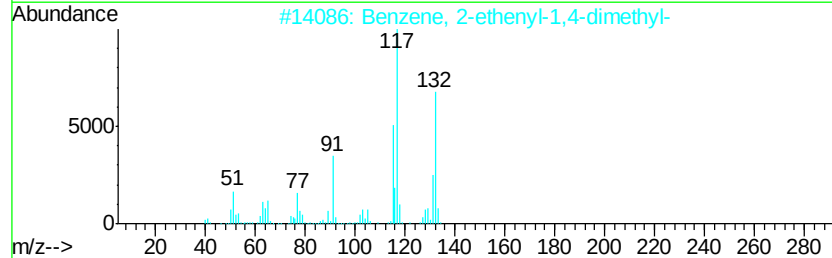
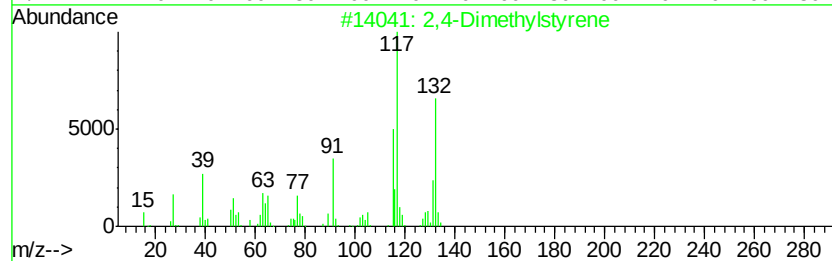
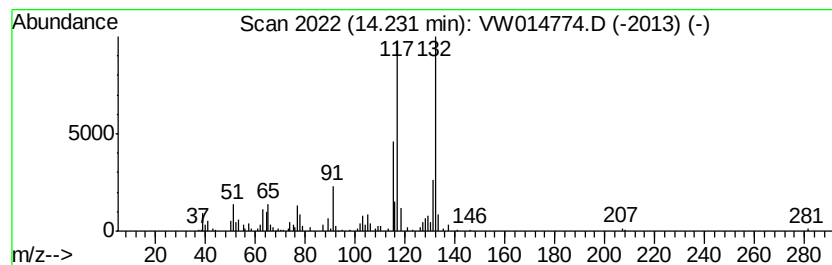
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 9 2,4-Dimethylstyrene Concentration Rank 11

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 14.23 | 2.72 ug/L | 95665 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# | of | Tentative ID                      | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------------------|-----|---------|-------------|------|
| 1    | 5  | 2,4-Dimethylstyrene               | 132 | C10H12  | 002234-20-0 | 97   |
| 2    |    | Benzene, 2-ethenyl-1,4-dimethyl-  | 132 | C10H12  | 002039-89-6 | 96   |
| 3    |    | Benzene, (2-methyl-2-propenyl)-   | 132 | C10H12  | 003290-53-7 | 95   |
| 4    |    | Benzene, 1-methyl-4-(2-propenyl)- | 132 | C10H12  | 003333-13-9 | 94   |
| 5    |    | 1H-Indene, 2,3-dihydro-2-methyl-  | 132 | C10H12  | 000824-63-5 | 94   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW012720\  
Data File : VW014774.D  
Acq On : 27 Jan 2020 19:13  
Operator : SY/VA  
Sample : L1271-12  
Misc : 5.04G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
GAT03

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM012720S.M  
Quant Title : VOC Analysis

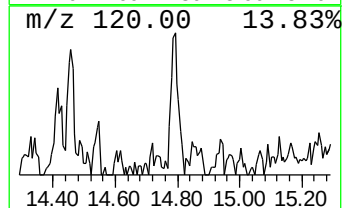
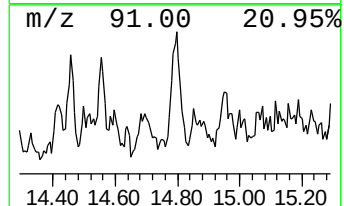
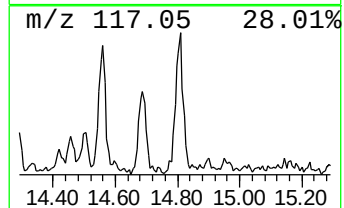
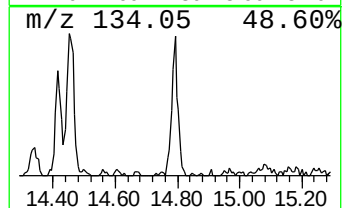
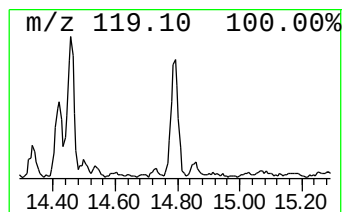
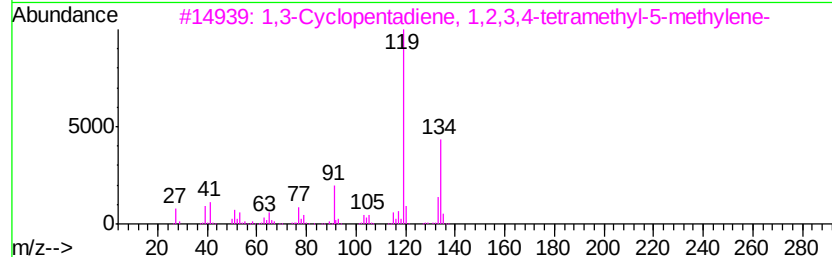
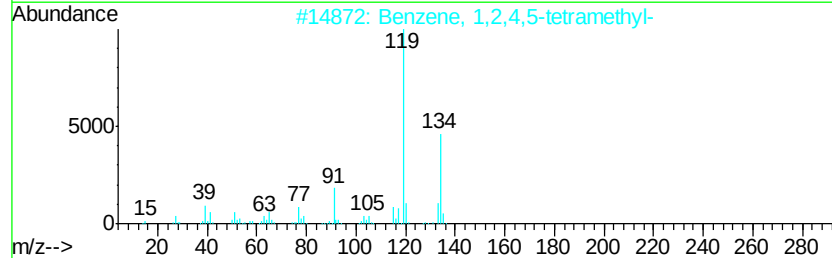
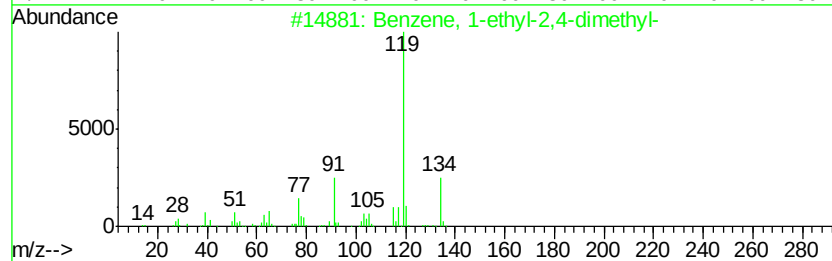
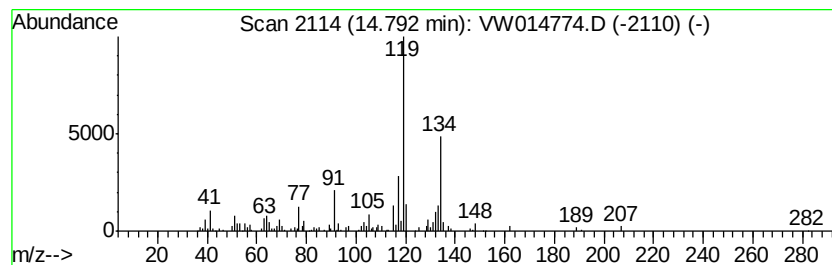
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 10 Benzene, 1-ethyl-2,4-dimethyl- Concentration Rank 14

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 14.79 | 1.88 ug/L | 66195 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1-ethyl-2,4-dimethyl-      | 134 | C10H14  | 000874-41-9 | 76   |
| 2    |    | Benzene, 1,2,4,5-tetramethyl-       | 134 | C10H14  | 000095-93-2 | 76   |
| 3    |    | 1,3-Cyclopentadiene, 1,2,3,4-tet... | 134 | C10H14  | 076089-59-3 | 76   |
| 4    |    | o-Cymene                            | 134 | C10H14  | 000527-84-4 | 70   |
| 5    |    | Benzene, 1-ethyl-2,3-dimethyl-      | 134 | C10H14  | 000933-98-2 | 70   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW012720\  
Data File : VW014774.D  
Acq On : 27 Jan 2020 19:13  
Operator : SY/VA  
Sample : L1271-12  
Misc : 5.04G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
GAT03

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM012720S.M  
Quant Title : VOC Analysis

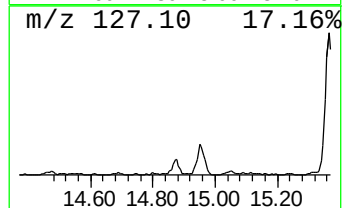
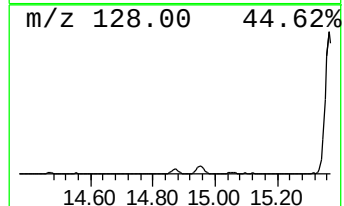
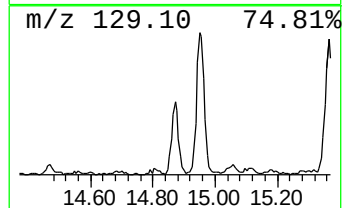
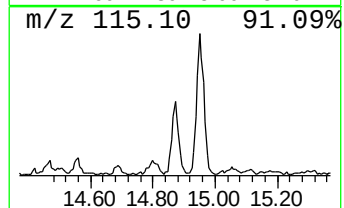
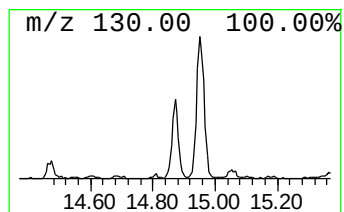
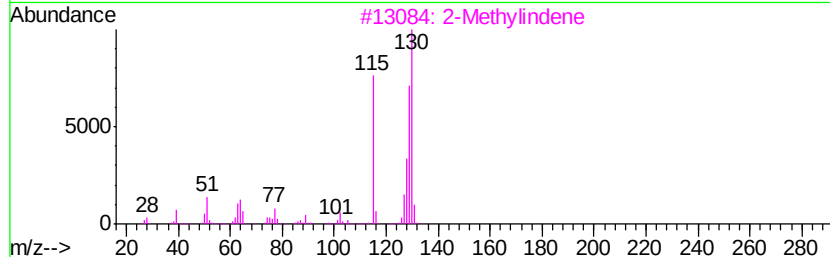
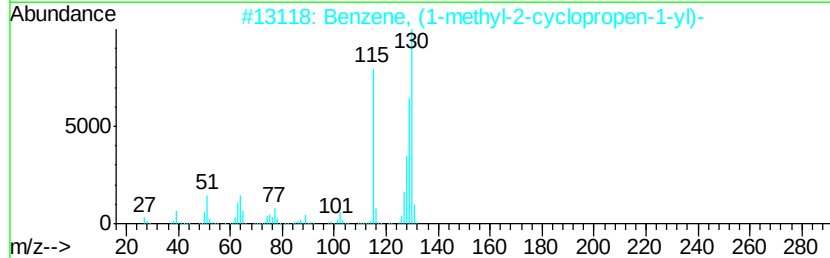
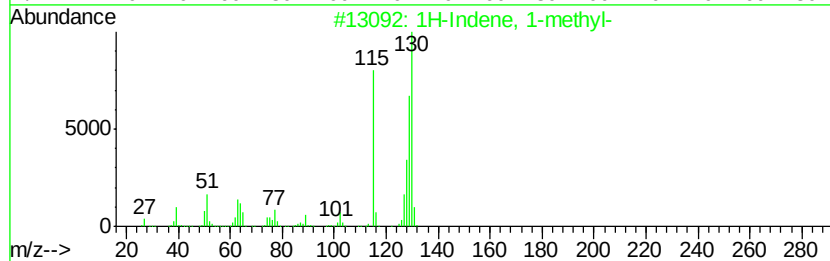
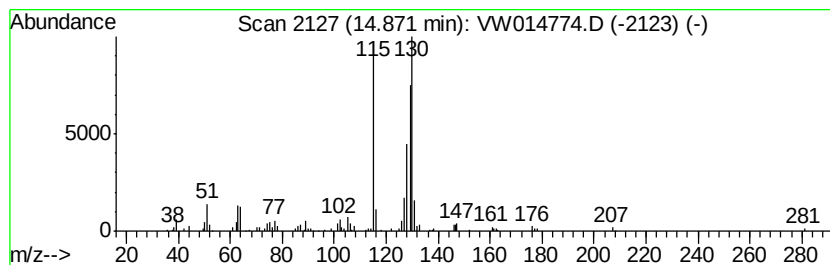
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 11 1H-Indene, 1-methyl- Concentration Rank 12

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 14.87 | 2.29 ug/L | 80615 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | 1H-Indene, 1-methyl-                | 130 | C10H10  | 000767-59-9 | 97   |
| 2    |    | Benzene, (1-methyl-2-cyclopropen... | 130 | C10H10  | 065051-83-4 | 96   |
| 3    |    | 2-Methylindene                      | 130 | C10H10  | 002177-47-1 | 96   |
| 4    |    | 1H-Indene, 1-methyl-                | 130 | C10H10  | 000767-59-9 | 95   |
| 5    |    | Benzene,1-methyl-1,2-propadienyl-   | 130 | C10H10  | 022433-39-2 | 93   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW012720\  
Data File : VW014774.D  
Acq On : 27 Jan 2020 19:13  
Operator : SY/VA  
Sample : L1271-12  
Misc : 5.04G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
GAT03

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM012720S.M  
Quant Title : VOC Analysis

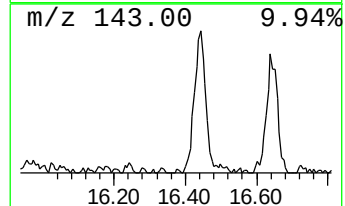
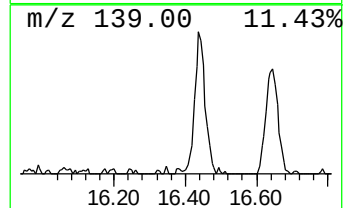
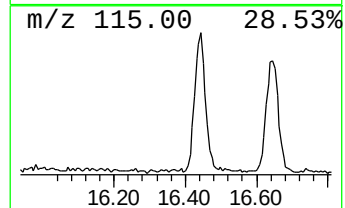
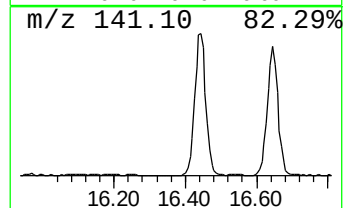
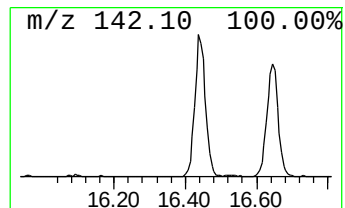
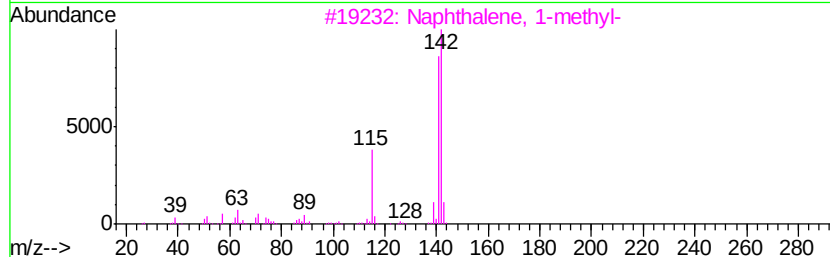
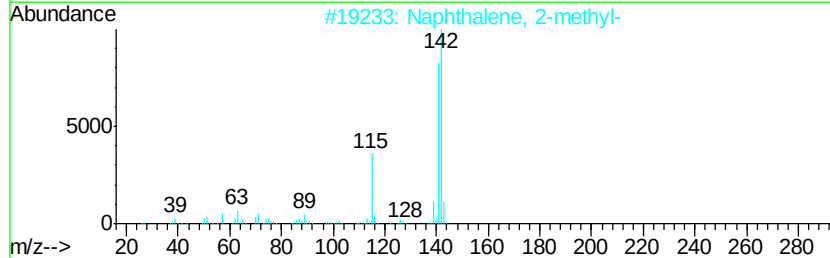
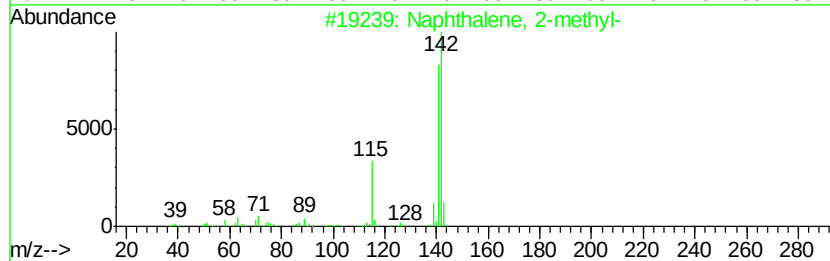
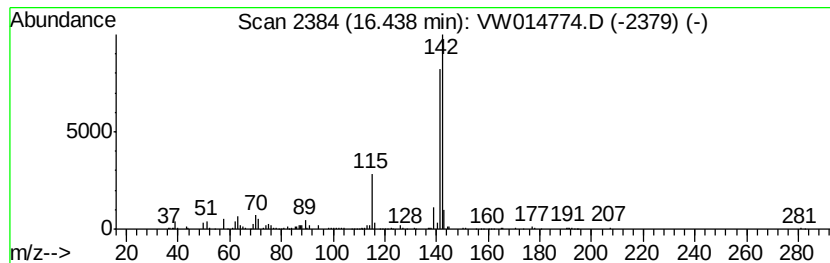
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 14 Naphthalene, 1-methyl- Concentration Rank 8

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 16.44 | 4.93 ug/L | 173225 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# | of | Tentative ID           | MW  | MolForm | CAS#        | Qual |
|------|----|------------------------|-----|---------|-------------|------|
| 1    | 5  | Naphthalene, 2-methyl- | 142 | C11H10  | 000091-57-6 | 97   |
| 2    |    | Naphthalene, 2-methyl- | 142 | C11H10  | 000091-57-6 | 96   |
| 3    |    | Naphthalene, 1-methyl- | 142 | C11H10  | 000090-12-0 | 96   |
| 4    |    | Naphthalene, 2-methyl- | 142 | C11H10  | 000091-57-6 | 94   |
| 5    |    | Naphthalene, 1-methyl- | 142 | C11H10  | 000090-12-0 | 91   |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW012720\  
Data File : VW014774.D  
Acq On : 27 Jan 2020 19:13  
Operator : SY/VA  
Sample : L1271-12  
Misc : 5.04G/10ML/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
GAT03

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM012720S.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 |
| Ethyl Acetate        | 7.25  | 9.4     | ug/L  | 316499   | 1                     | 8.84  | 842650 | 25.0 |
| Benzene, 1-ethyl-... | 12.87 | 1.8     | ug/L  | 64038    | 3                     | 13.55 | 879151 | 25.0 |
| Benzene, 1,2,3-tr... | 12.94 | 3.6     | ug/L  | 125128   | 3                     | 13.55 | 879151 | 25.0 |
| Benzene, 1-etheny... | 13.30 | 6.5     | ug/L  | 229108   | 3                     | 13.55 | 879151 | 25.0 |
| Indene               | 13.94 | 6.9     | ug/L  | 241695   | 3                     | 13.55 | 879151 | 25.0 |
| 2,4-Dimethylstyrene  | 14.23 | 2.7     | ug/L  | 95665    | 3                     | 13.55 | 879151 | 25.0 |
| Benzene, 1-ethyl-... | 14.79 | 1.9     | ug/L  | 66195    | 3                     | 13.55 | 879151 | 25.0 |
| 1H-Indene, 1-methyl- | 14.87 | 2.3     | ug/L  | 80615    | 3                     | 13.55 | 879151 | 25.0 |
| Naphthalene, 1-me... | 16.44 | 4.9     | ug/L  | 173225   | 3                     | 13.55 | 879151 | 25.0 |