

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW012020\  
 Data File : VW014701.D  
 Acq On : 20 Jan 2020 17:50  
 Operator : SY/VA  
 Sample : L1193-13  
 Misc : 5.00G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 GASP4

## 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\SOM2WLM122719S.M  
 Title : VOC Analysis

Signal : TIC

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 2.154       | 37            | 41          | 46           | rBV2     | 5687           | 11745         | 0.00%           | 0.001%        |
| 2         | 2.349       | 65            | 73          | 88           | rBV      | 288287         | 528554        | 0.16%           | 0.067%        |
| 3         | 2.489       | 92            | 96          | 102          | rBV2     | 12836          | 21214         | 0.01%           | 0.003%        |
| 4         | 2.885       | 153           | 161         | 176          | rVB      | 189170         | 475187        | 0.14%           | 0.061%        |
| 5         | 3.379       | 238           | 242         | 252          | rVB8     | 3623           | 8690          | 0.00%           | 0.001%        |
| 6         | 3.751       | 301           | 303         | 305          | rVB2     | 1513           | 1375          | 0.00%           | 0.000%        |
| 7         | 4.013       | 333           | 346         | 359          | rBV      | 400297         | 1272085       | 0.38%           | 0.162%        |
| 8         | 4.379       | 404           | 406         | 408          | rBV2     | 782            | 1084          | 0.00%           | 0.000%        |
| 9         | 4.763       | 467           | 469         | 472          | rVV3     | 954            | 1400          | 0.00%           | 0.000%        |
| 10        | 4.794       | 472           | 474         | 478          | rVV3     | 908            | 1187          | 0.00%           | 0.000%        |
| 11        | 4.915       | 481           | 494         | 513          | rVV2     | 37917          | 144678        | 0.04%           | 0.018%        |
| 12        | 5.141       | 528           | 531         | 532          | rVV2     | 1561           | 1477          | 0.00%           | 0.000%        |
| 13        | 5.159       | 532           | 534         | 535          | rVV2     | 1212           | 1199          | 0.00%           | 0.000%        |
| 14        | 5.745       | 628           | 630         | 631          | rBV2     | 1313           | 927           | 0.00%           | 0.000%        |
| 15        | 5.940       | 652           | 662         | 669          | rVV4     | 8913           | 26794         | 0.01%           | 0.003%        |
| 16        | 6.098       | 682           | 688         | 691          | rBV4     | 1098           | 2184          | 0.00%           | 0.000%        |
| 17        | 6.202       | 703           | 705         | 713          | rVB4     | 542            | 1066          | 0.00%           | 0.000%        |
| 18        | 6.318       | 723           | 724         | 731          | rVB3     | 799            | 1080          | 0.00%           | 0.000%        |
| 19        | 6.604       | 769           | 771         | 777          | rVB4     | 636            | 1000          | 0.00%           | 0.000%        |
| 20        | 6.897       | 813           | 819         | 820          | rBV4     | 1478           | 2119          | 0.00%           | 0.000%        |
| 21        | 6.988       | 828           | 834         | 839          | rBV7     | 2198           | 4723          | 0.00%           | 0.001%        |
| 22        | 7.074       | 839           | 848         | 854          | rBV      | 92624          | 262694        | 0.08%           | 0.033%        |
| 23        | 7.531       | 920           | 923         | 927          | rVV5     | 2685           | 5473          | 0.00%           | 0.001%        |
| 24        | 7.647       | 930           | 942         | 955          | rBV      | 575364         | 1390535       | 0.42%           | 0.177%        |
| 25        | 7.939       | 986           | 990         | 991          | rBV3     | 1712           | 2349          | 0.00%           | 0.000%        |
| 26        | 8.073       | 1011          | 1012        | 1022         | rVB4     | 858            | 1820          | 0.00%           | 0.000%        |
| 27        | 8.269       | 1032          | 1044        | 1062         | rBV2     | 1157042        | 3472306       | 1.05%           | 0.442%        |
| 28        | 8.561       | 1091          | 1092        | 1097         | rVB4     | 1728           | 1736          | 0.00%           | 0.000%        |
| 29        | 8.695       | 1108          | 1114        | 1119         | rBV7     | 1616           | 3397          | 0.00%           | 0.000%        |
| 30        | 8.842       | 1127          | 1138        | 1154         | rBV      | 1184998        | 2362747       | 0.71%           | 0.301%        |
| 31        | 9.079       | 1170          | 1177        | 1181         | rBV4     | 4072           | 8248          | 0.00%           | 0.001%        |
| 32        | 9.146       | 1184          | 1188        | 1192         | rVB3     | 3181           | 5179          | 0.00%           | 0.001%        |
| 33        | 9.268       | 1199          | 1208        | 1218         | rBV      | 749767         | 1529988       | 0.46%           | 0.195%        |
| 34        | 9.579       | 1256          | 1259        | 1264         | rVB6     | 792            | 1216          | 0.00%           | 0.000%        |

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 MSVOA\_W  
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 GASP4

## 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\SOM2WLM122719S.M  
 Title : VOC Analysis

|    |        |      |      |      |      |         |         |       |        |
|----|--------|------|------|------|------|---------|---------|-------|--------|
| 35 | 9.634  | 1264 | 1268 | 1269 | rBV3 | 1713    | 1934    | 0.00% | 0.000% |
| 36 | 9.665  | 1269 | 1273 | 1279 | rVV4 | 4067    | 7010    | 0.00% | 0.001% |
| 37 | 9.756  | 1283 | 1288 | 1289 | rBV3 | 1126    | 1828    | 0.00% | 0.000% |
| 38 | 9.896  | 1307 | 1311 | 1317 | rVB7 | 1979    | 3553    | 0.00% | 0.000% |
| 39 | 10.030 | 1325 | 1333 | 1342 | rBV  | 358080  | 645676  | 0.19% | 0.082% |
| 40 | 10.128 | 1344 | 1349 | 1356 | rVB4 | 8737    | 18483   | 0.01% | 0.002% |
| 41 | 10.207 | 1356 | 1362 | 1367 | rBV4 | 5273    | 10636   | 0.00% | 0.001% |
| 42 | 10.323 | 1372 | 1381 | 1388 | rBV  | 1464613 | 2606560 | 0.79% | 0.332% |
| 43 | 10.384 | 1388 | 1391 | 1400 | rVB2 | 23784   | 40268   | 0.01% | 0.005% |
| 44 | 10.500 | 1404 | 1410 | 1415 | rBV6 | 2903    | 5351    | 0.00% | 0.001% |
| 45 | 10.573 | 1415 | 1422 | 1436 | rBV2 | 221746  | 390241  | 0.12% | 0.050% |
| 46 | 10.701 | 1438 | 1443 | 1450 | rVB  | 28623   | 52977   | 0.02% | 0.007% |
| 47 | 10.768 | 1452 | 1454 | 1458 | rVB4 | 1559    | 1758    | 0.00% | 0.000% |
| 48 | 10.853 | 1464 | 1468 | 1473 | rBV7 | 1376    | 2493    | 0.00% | 0.000% |
| 49 | 10.921 | 1473 | 1479 | 1492 | rBV  | 359124  | 616092  | 0.19% | 0.078% |
| 50 | 11.061 | 1497 | 1502 | 1510 | rVB  | 34228   | 58315   | 0.02% | 0.007% |
| 51 | 11.323 | 1543 | 1545 | 1547 | rVB3 | 1592    | 998     | 0.00% | 0.000% |
| 52 | 11.433 | 1553 | 1563 | 1569 | rBV3 | 11554   | 21955   | 0.01% | 0.003% |
| 53 | 11.524 | 1573 | 1578 | 1579 | rBV3 | 1343    | 1944    | 0.00% | 0.000% |
| 54 | 11.628 | 1585 | 1595 | 1607 | rBV  | 1324227 | 2188687 | 0.66% | 0.279% |
| 55 | 11.725 | 1607 | 1611 | 1622 | rVB4 | 7162    | 14411   | 0.00% | 0.002% |
| 56 | 11.835 | 1622 | 1629 | 1636 | rBV  | 11578   | 23957   | 0.01% | 0.003% |
| 57 | 11.963 | 1647 | 1650 | 1651 | rBV3 | 1524    | 1765    | 0.00% | 0.000% |
| 58 | 12.103 | 1671 | 1673 | 1674 | rBV2 | 1456    | 888     | 0.00% | 0.000% |
| 59 | 12.182 | 1678 | 1686 | 1694 | rBV  | 643840  | 1071806 | 0.32% | 0.137% |
| 60 | 12.469 | 1728 | 1733 | 1737 | rBV8 | 3065    | 4998    | 0.00% | 0.001% |
| 61 | 12.573 | 1748 | 1750 | 1751 | rBV2 | 1136    | 943     | 0.00% | 0.000% |
| 62 | 12.609 | 1751 | 1756 | 1762 | rVV  | 24598   | 43899   | 0.01% | 0.006% |
| 63 | 12.688 | 1762 | 1769 | 1779 | rVB  | 406371  | 658634  | 0.20% | 0.084% |
| 64 | 12.804 | 1785 | 1788 | 1792 | rVB4 | 2438    | 3200    | 0.00% | 0.000% |
| 65 | 12.865 | 1795 | 1798 | 1801 | rBV4 | 4263    | 7045    | 0.00% | 0.001% |
| 66 | 12.932 | 1805 | 1809 | 1816 | rVB3 | 16087   | 28019   | 0.01% | 0.004% |
| 67 | 13.115 | 1834 | 1839 | 1845 | rVB4 | 14166   | 24176   | 0.01% | 0.003% |
| 68 | 13.201 | 1850 | 1853 | 1857 | rBV6 | 2078    | 3551    | 0.00% | 0.000% |
| 69 | 13.249 | 1857 | 1861 | 1863 | rBV2 | 8277    | 13676   | 0.00% | 0.002% |
| 70 | 13.298 | 1863 | 1869 | 1874 | rVV  | 694742  | 1066369 | 0.32% | 0.136% |
| 71 | 13.347 | 1874 | 1877 | 1883 | rVB  | 197261  | 290932  | 0.09% | 0.037% |

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Instrument :  
 MSVOA\_W  
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 GASP4

## Integration Parameters: LSCINT.P

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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

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 Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM122719S.M  
 Title : VOC Analysis

|     |        |      |      |      |      |           |           |         |         |
|-----|--------|------|------|------|------|-----------|-----------|---------|---------|
| 72  | 13.469 | 1892 | 1897 | 1905 | rVB2 | 33121     | 56813     | 0.02%   | 0.007%  |
| 73  | 13.554 | 1905 | 1911 | 1922 | rVV  | 610076    | 1022734   | 0.31%   | 0.130%  |
| 74  | 13.646 | 1922 | 1926 | 1932 | rVB2 | 20557     | 34218     | 0.01%   | 0.004%  |
| 75  | 13.853 | 1953 | 1960 | 1967 | rBV  | 480933    | 825804    | 0.25%   | 0.105%  |
| 76  | 13.938 | 1967 | 1974 | 1984 | rVB  | 666469    | 1076574   | 0.32%   | 0.137%  |
| 77  | 14.066 | 1992 | 1995 | 2002 | rVB6 | 24879     | 41960     | 0.01%   | 0.005%  |
| 78  | 14.139 | 2002 | 2007 | 2014 | rVB2 | 57652     | 111472    | 0.03%   | 0.014%  |
| 79  | 14.231 | 2016 | 2022 | 2027 | rBV  | 184593    | 281628    | 0.08%   | 0.036%  |
| 80  | 14.292 | 2027 | 2032 | 2044 | rVB3 | 65526     | 192666    | 0.06%   | 0.025%  |
| 81  | 14.432 | 2051 | 2055 | 2056 | rBV3 | 13688     | 19399     | 0.01%   | 0.002%  |
| 82  | 14.469 | 2056 | 2061 | 2064 | rBV3 | 93819     | 152124    | 0.05%   | 0.019%  |
| 83  | 14.554 | 2071 | 2075 | 2079 | rVV  | 111151    | 156802    | 0.05%   | 0.020%  |
| 84  | 14.597 | 2079 | 2082 | 2086 | rVB2 | 40874     | 55532     | 0.02%   | 0.007%  |
| 85  | 14.725 | 2094 | 2103 | 2108 | rBV  | 372730    | 550314    | 0.17%   | 0.070%  |
| 86  | 14.792 | 2108 | 2114 | 2118 | rBV2 | 184740    | 333821    | 0.10%   | 0.043%  |
| 87  | 14.871 | 2118 | 2127 | 2135 | rBV2 | 780866    | 1590638   | 0.48%   | 0.203%  |
| 88  | 14.950 | 2135 | 2140 | 2149 | rVB  | 2693106   | 4506274   | 1.36%   | 0.574%  |
| 89  | 15.072 | 2149 | 2160 | 2162 | rBV2 | 496956    | 1163255   | 0.35%   | 0.148%  |
| 90  | 15.176 | 2172 | 2177 | 2183 | rBV2 | 914608    | 2460498   | 0.74%   | 0.313%  |
| 91  | 15.316 | 2190 | 2200 | 2202 | rBV5 | 2050861   | 5366783   | 1.62%   | 0.684%  |
| 92  | 15.371 | 2202 | 2209 | 2218 | rVB2 | 91315795  | 208715862 | 62.93%  | 26.593% |
| 93  | 15.468 | 2219 | 2225 | 2230 | rBV  | 4710332   | 8379074   | 2.53%   | 1.068%  |
| 94  | 15.554 | 2230 | 2239 | 2247 | rVB  | 8891029   | 16014131  | 4.83%   | 2.040%  |
| 95  | 15.657 | 2249 | 2256 | 2261 | rBV3 | 2386057   | 5646124   | 1.70%   | 0.719%  |
| 96  | 15.846 | 2280 | 2287 | 2293 | rBV3 | 1828875   | 4826584   | 1.46%   | 0.615%  |
| 97  | 15.962 | 2300 | 2306 | 2312 | rBV3 | 2014784   | 5523450   | 1.67%   | 0.704%  |
| 98  | 16.383 | 2368 | 2375 | 2378 | rBV  | 2961537   | 6686488   | 2.02%   | 0.852%  |
| 99  | 16.462 | 2378 | 2388 | 2399 | rVB3 | 106803530 | 331651612 | 100.00% | 42.256% |
| 100 | 16.657 | 2410 | 2420 | 2430 | rVB2 | 61614380  | 155928378 | 47.02%  | 19.867% |

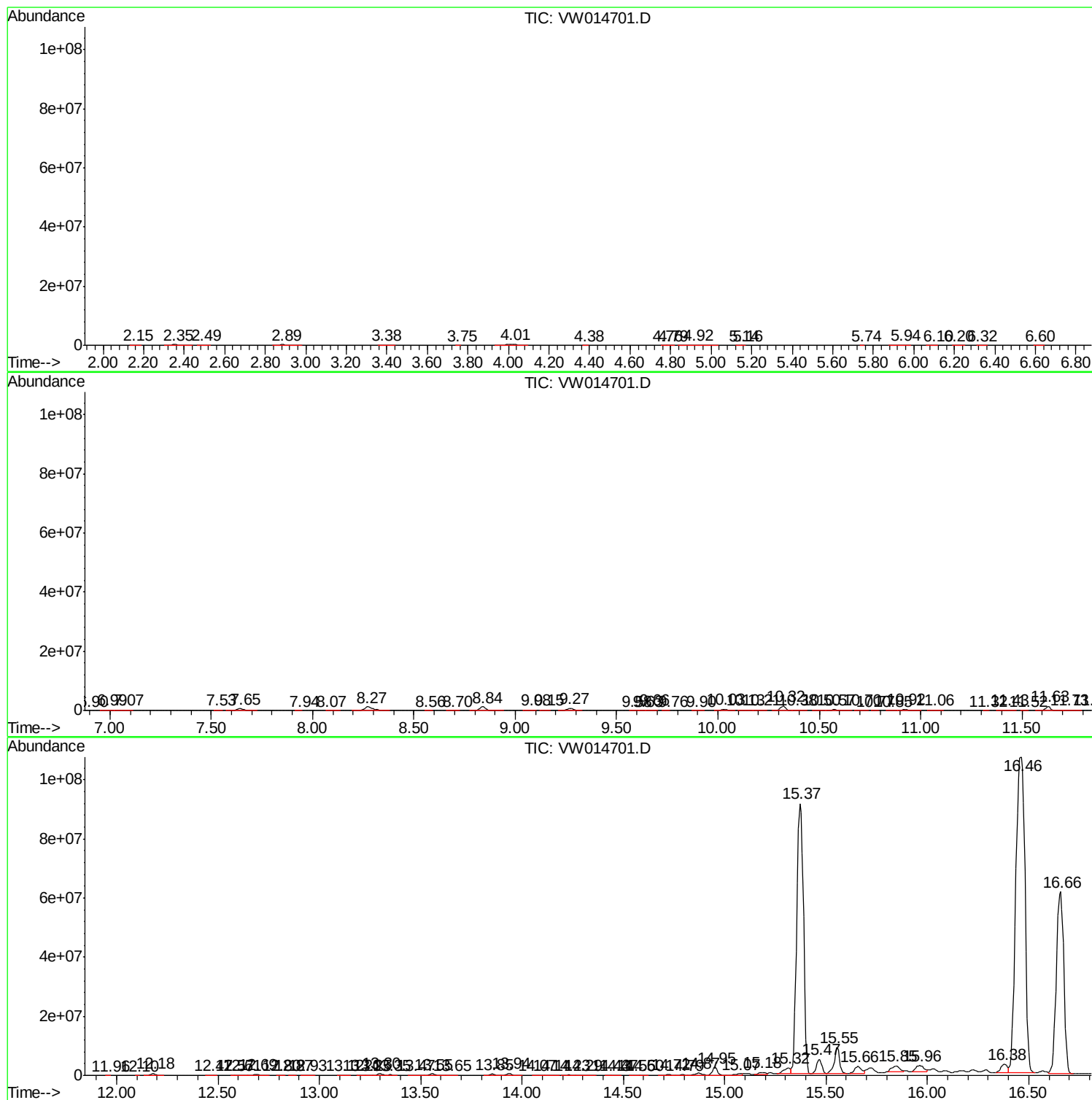
Sum of corrected areas: 784863496

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM122719S.M  
Quant Title : VOC Analysis

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



Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW012020\  
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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM122719S.M  
Quant Title : VOC Analysis

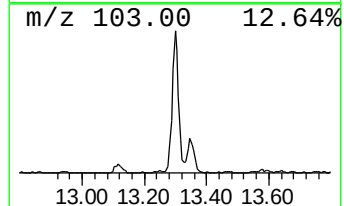
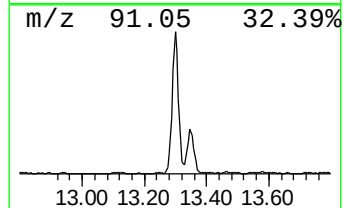
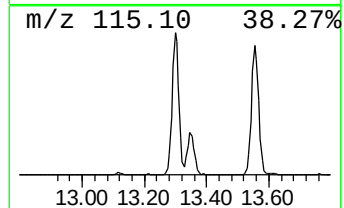
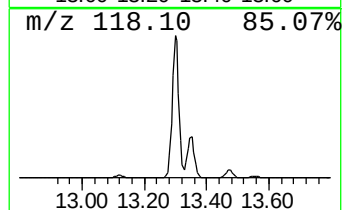
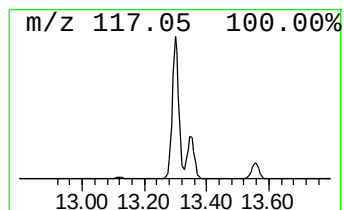
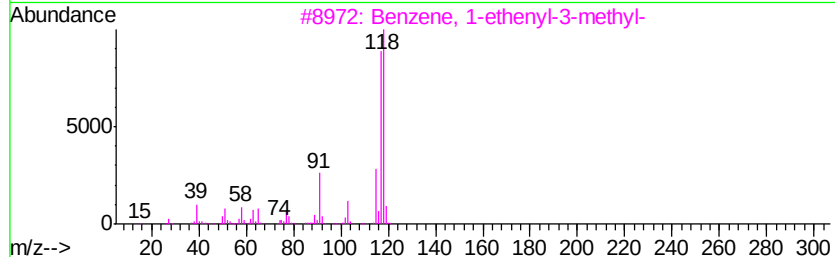
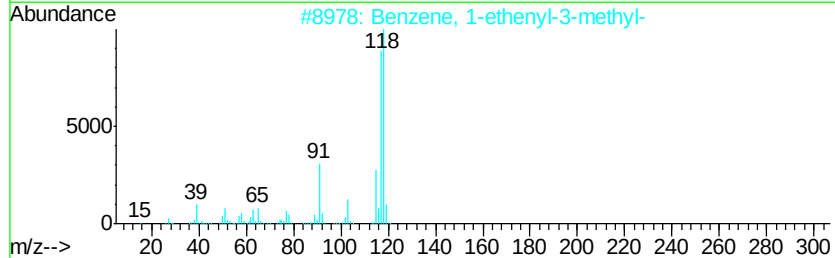
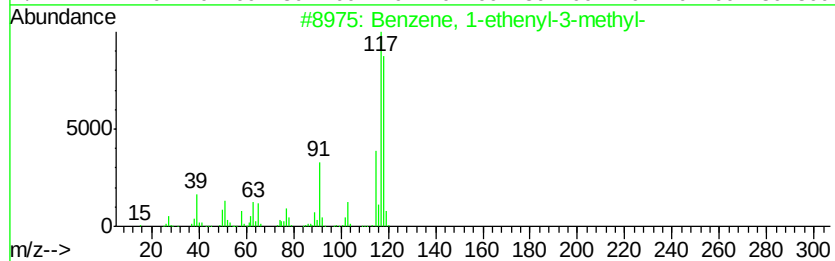
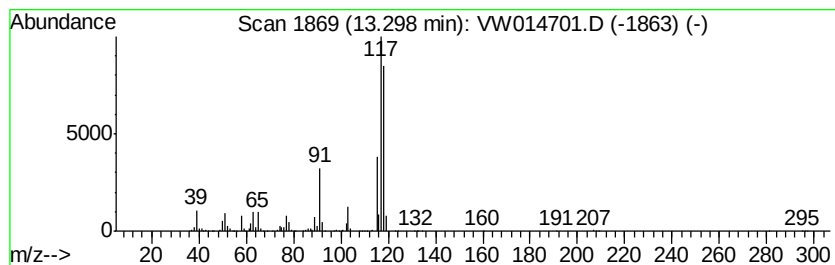
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 Benzene, 1-ethenyl-3-methyl- Concentration Rank 16

| R.T.  | EstConc    | Area    | Relative to ISTD       | R.T.  |
|-------|------------|---------|------------------------|-------|
| 13.30 | 26.07 ug/L | 1066370 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# | of | Tentative ID                 | MW  | MolForm | CAS#        | Qual |
|------|----|------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1-ethenyl-3-methyl- | 118 | C9H10   | 000100-80-1 | 96   |
| 2    |    | Benzene, 1-ethenyl-3-methyl- | 118 | C9H10   | 000100-80-1 | 96   |
| 3    |    | Benzene, 1-ethenyl-3-methyl- | 118 | C9H10   | 000100-80-1 | 95   |
| 4    |    | Benzene, 1-ethenyl-4-methyl- | 118 | C9H10   | 000622-97-9 | 95   |
| 5    |    | Benzene, 1-propenyl-         | 118 | C9H10   | 000637-50-3 | 94   |



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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM122719S.M  
Quant Title : VOC Analysis

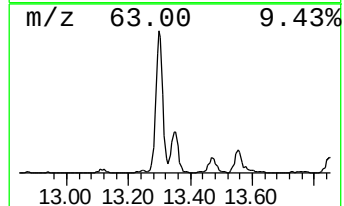
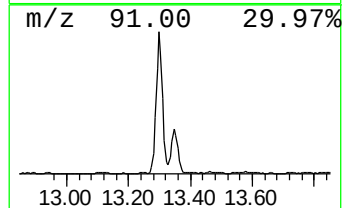
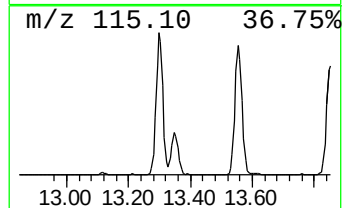
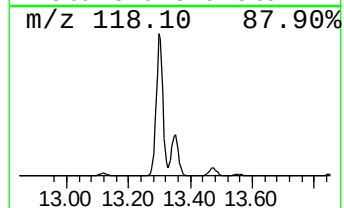
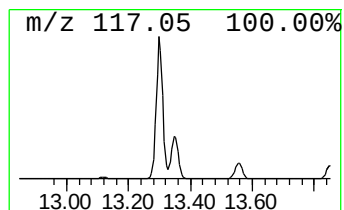
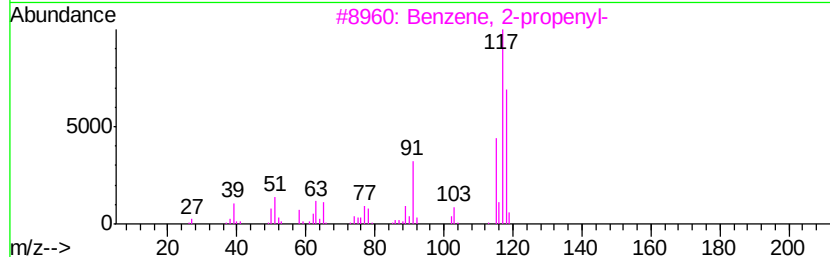
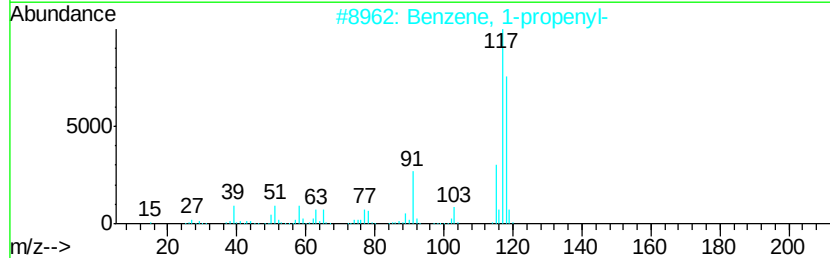
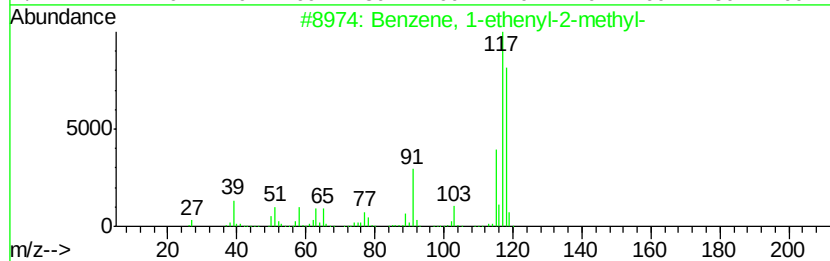
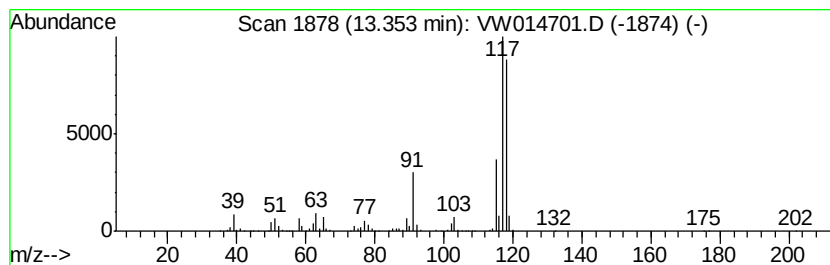
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 Benzene, 1-ethenyl-2-methyl- Concentration Rank 19

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 13.35 | 7.11 ug/L | 290932 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1-ethenyl-2-methyl-        | 118 | C9H10   | 000611-15-4 | 94   |
| 2    |    | Benzene, 1-propenyl-                | 118 | C9H10   | 000637-50-3 | 93   |
| 3    |    | Benzene, 2-propenyl-                | 118 | C9H10   | 000300-57-2 | 91   |
| 4    |    | Benzene, 1,1'-(1-ethenyl-1,3-pro... | 222 | C17H18  | 061141-97-7 | 91   |
| 5    |    | Benzene, 2-propenyl-                | 118 | C9H10   | 000300-57-2 | 90   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW012020\  
Data File : VW014701.D  
Acq On : 20 Jan 2020 17:50  
Operator : SY/VA  
Sample : L1193-13  
Misc : 5.00G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
GASP4

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM122719S.M  
Quant Title : VOC Analysis

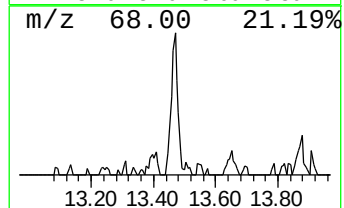
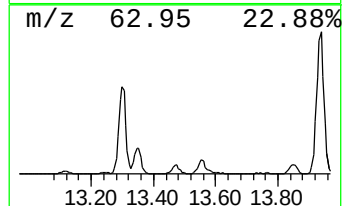
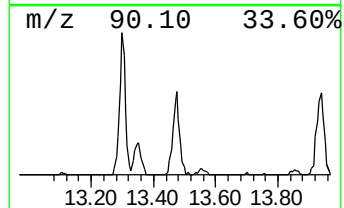
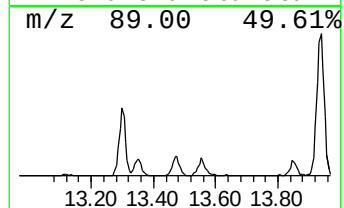
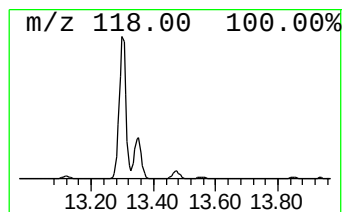
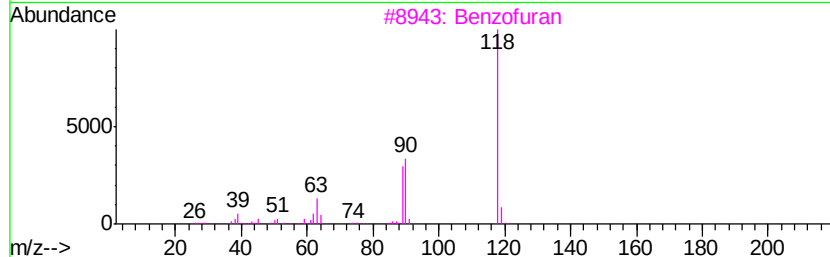
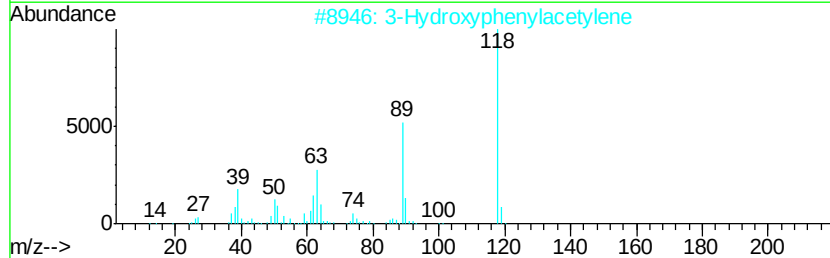
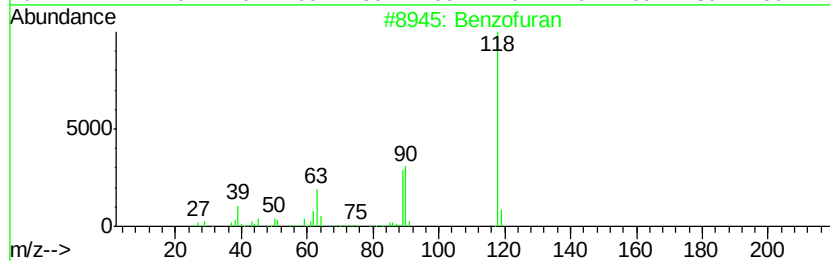
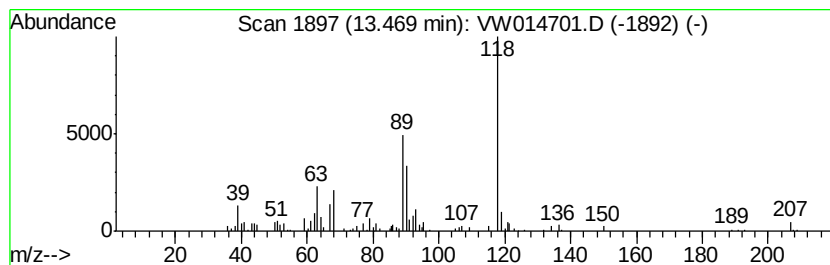
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TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 Benzofuran Concentration Rank 26

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 13.47 | 1.39 ug/L | 56813 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# of | 5 | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|---------|---|-------------------------------------|-----|----------|--------------|------|
| 1       |   | Benzofuran                          | 118 | C8H6O    | 000271-89-6  | 76   |
| 2       |   | 3-Hydroxyphenylacetylene            | 118 | C8H6O    | 010401-11-3  | 74   |
| 3       |   | Benzofuran                          | 118 | C8H6O    | 000271-89-6  | 68   |
| 4       |   | trans-2-Hydroxycinnamic acid, me... | 178 | C10H10O3 | 1000352-49-0 | 59   |
| 5       |   | Coumarin                            | 146 | C9H6O2   | 000091-64-5  | 59   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW012020\  
Data File : VW014701.D  
Acq On : 20 Jan 2020 17:50  
Operator : SY/VA  
Sample : L1193-13  
Misc : 5.00G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
GASP4

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM122719S.M  
Quant Title : VOC Analysis

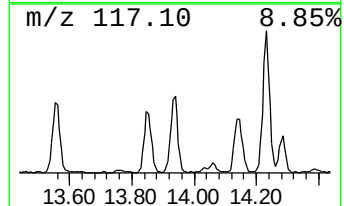
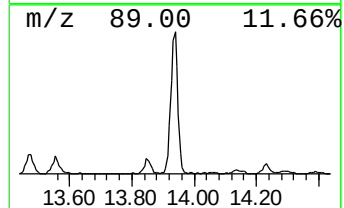
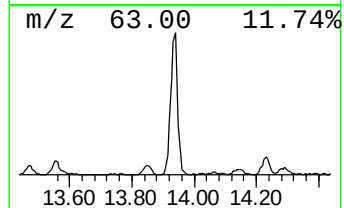
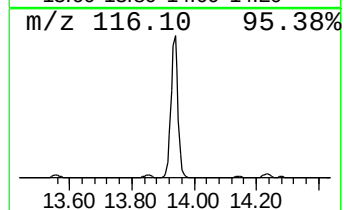
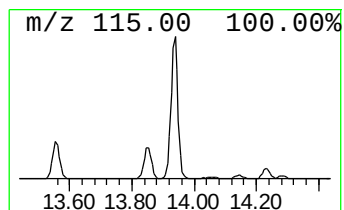
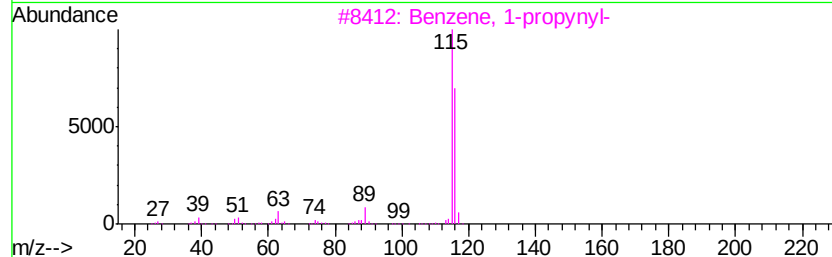
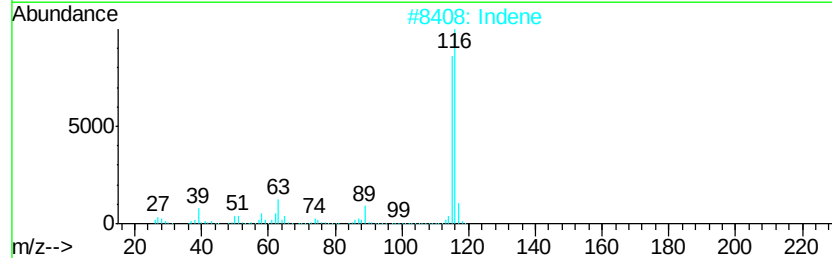
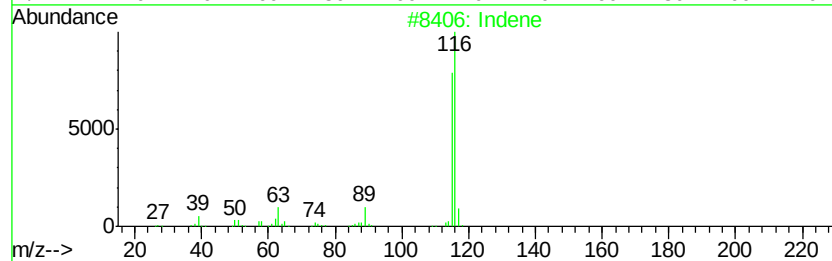
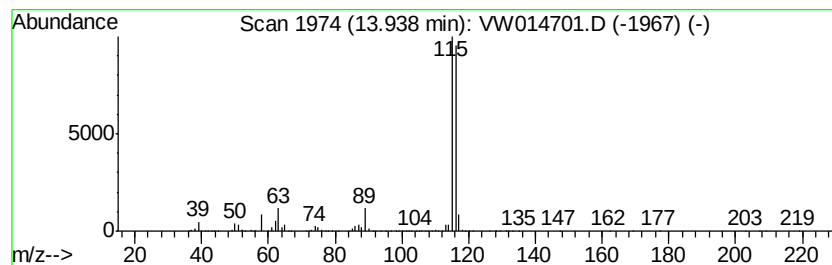
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 Indene Concentration Rank 15

| R.T.  | EstConc    | Area    | Relative to ISTD       | R.T.  |
|-------|------------|---------|------------------------|-------|
| 13.94 | 26.32 ug/L | 1076570 | 1,4-Dichlorobenzene-d4 | 13.55 |

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





Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW012020\  
Data File : VW014701.D  
Acq On : 20 Jan 2020 17:50  
Operator : SY/VA  
Sample : L1193-13  
Misc : 5.00G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
GASP4

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM122719S.M  
Quant Title : VOC Analysis

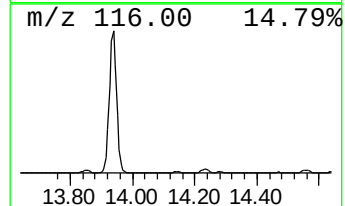
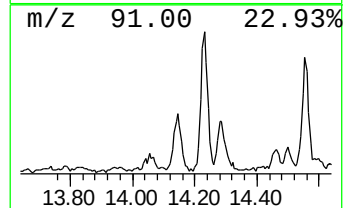
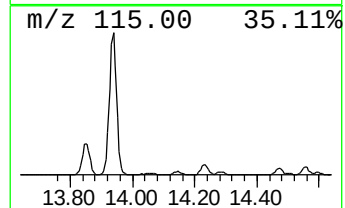
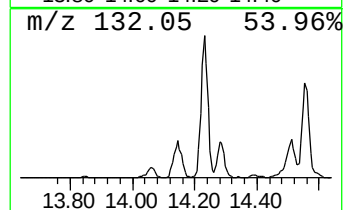
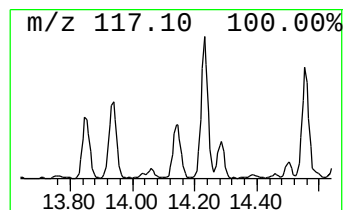
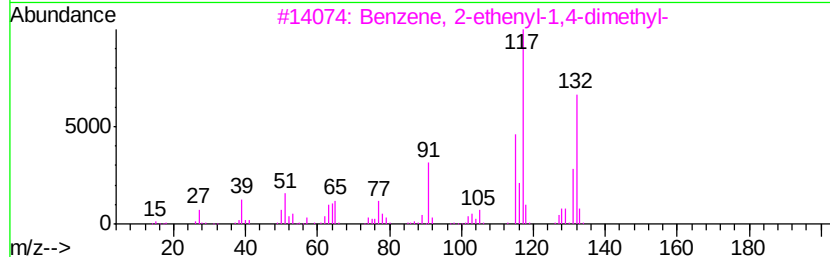
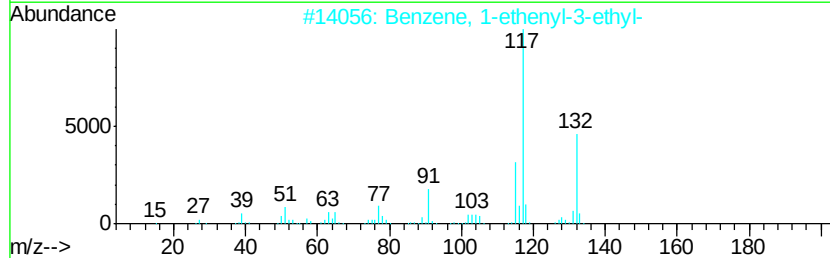
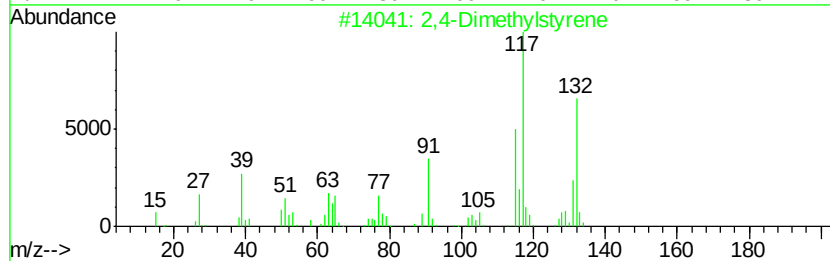
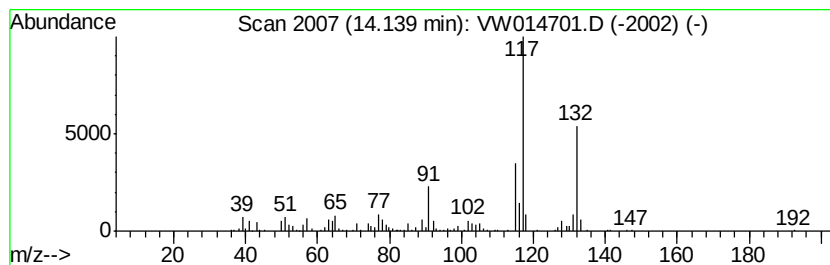
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 6 2,4-Dimethylstyrene Concentration Rank 25

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 14.14 | 2.72 ug/L | 111472 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# | of | Tentative ID                     | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------------|-----|---------|-------------|------|
| 1    | 5  | 2,4-Dimethylstyrene              | 132 | C10H12  | 002234-20-0 | 94   |
| 2    |    | Benzene, 1-ethenyl-3-ethyl-      | 132 | C10H12  | 007525-62-4 | 94   |
| 3    |    | Benzene, 2-ethenyl-1,4-dimethyl- | 132 | C10H12  | 002039-89-6 | 91   |
| 4    |    | Benzene, 4-ethenyl-1,2-dimethyl- | 132 | C10H12  | 027831-13-6 | 91   |
| 5    |    | Benzene, 1-ethenyl-4-ethyl-      | 132 | C10H12  | 003454-07-7 | 91   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW012020\  
Data File : VW014701.D  
Acq On : 20 Jan 2020 17:50  
Operator : SY/VA  
Sample : L1193-13  
Misc : 5.00G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

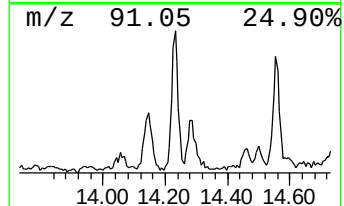
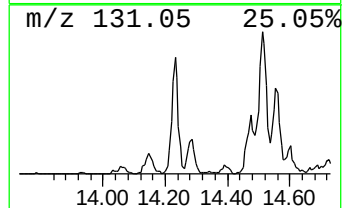
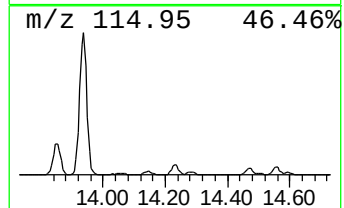
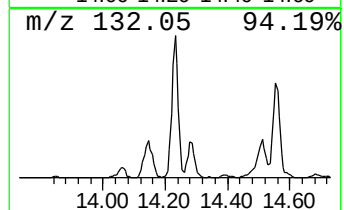
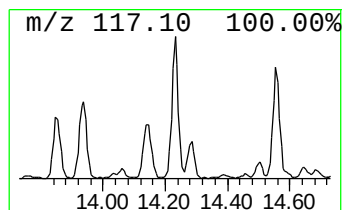
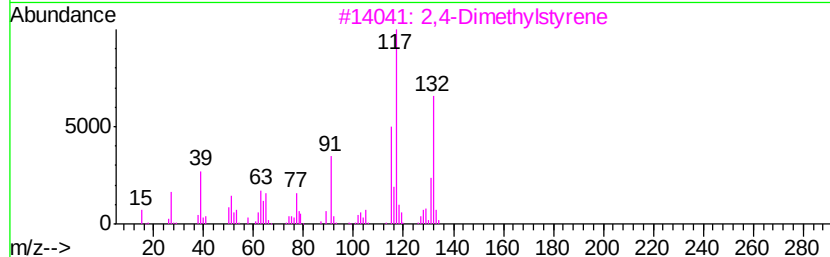
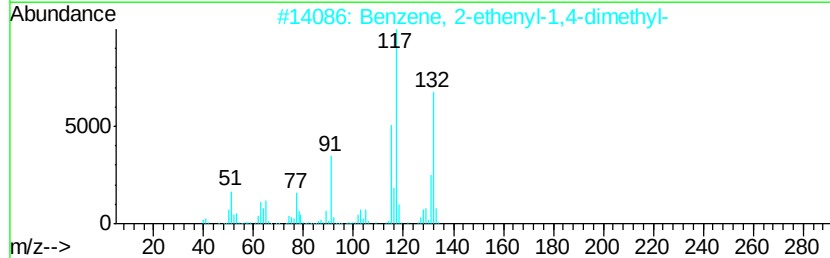
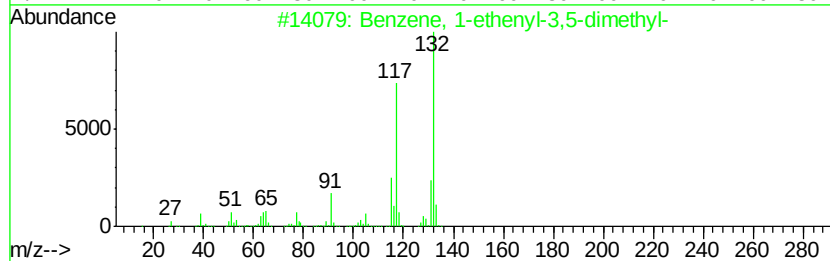
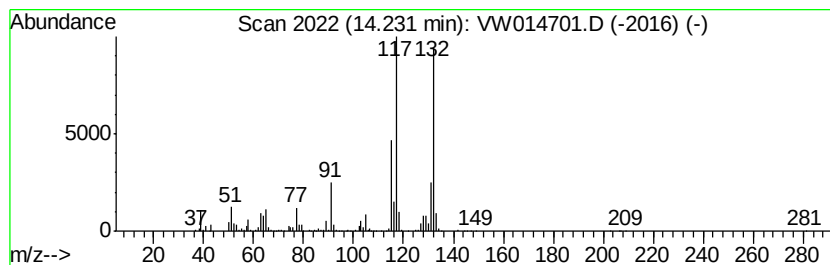
Instrument :  
MSVOA\_W  
ClientSampleId :  
GASP4

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM122719S.M  
Quant Title : VOC Analysis

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

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Peak Number 7 Benzene, 1-ethenyl-3,5-dime... Concentration Rank 20

| R.T.    | EstConc   | Area                             | Relative to ISTD       | R.T.        |      |
|---------|-----------|----------------------------------|------------------------|-------------|------|
| 14.23   | 6.88 ug/L | 281628                           | 1,4-Dichlorobenzene-d4 | 13.55       |      |
| Hit# of | 5         | Tentative ID                     | MW MolForm             | CAS#        | Qual |
| 1       |           | Benzene, 1-ethenyl-3,5-dimethyl- | 132 C10H12             | 005379-20-4 | 97   |
| 2       |           | Benzene, 2-ethenyl-1,4-dimethyl- | 132 C10H12             | 002039-89-6 | 97   |
| 3       |           | 2,4-Dimethylstyrene              | 132 C10H12             | 002234-20-0 | 96   |
| 4       |           | Benzene, (2-methyl-1-propenyl)-  | 132 C10H12             | 000768-49-0 | 95   |
| 5       |           | Benzene, (2-methyl-1-propenyl)-  | 132 C10H12             | 000768-49-0 | 95   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW012020\  
Data File : VW014701.D  
Acq On : 20 Jan 2020 17:50  
Operator : SY/VA  
Sample : L1193-13  
Misc : 5.00G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampled :  
GASP4

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM122719S.M  
Quant Title : VOC Analysis

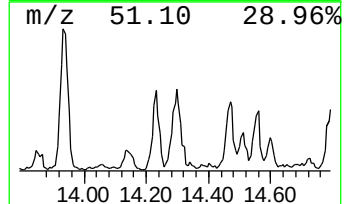
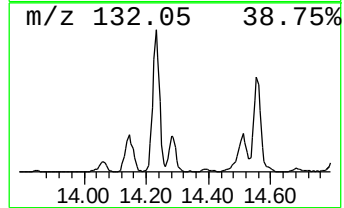
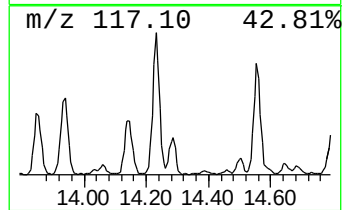
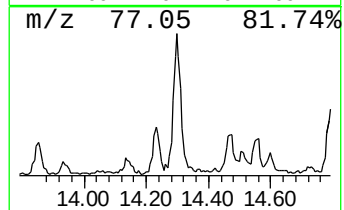
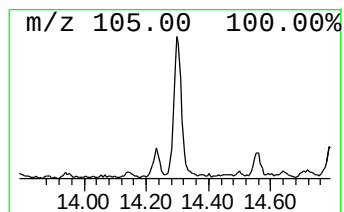
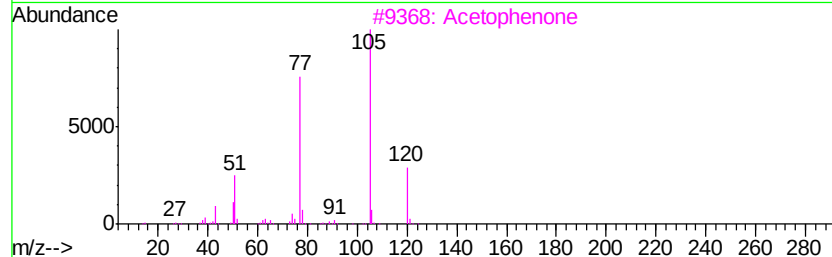
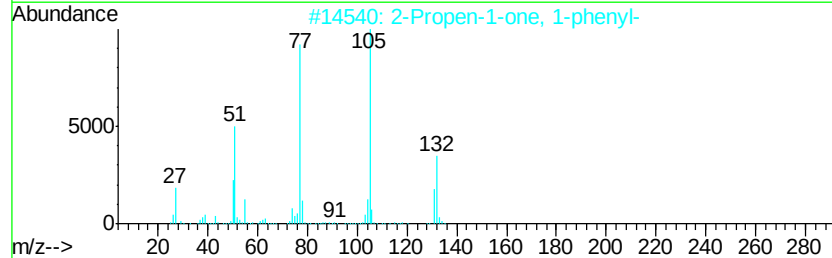
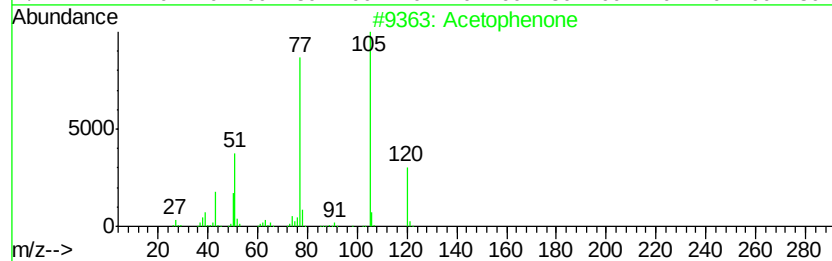
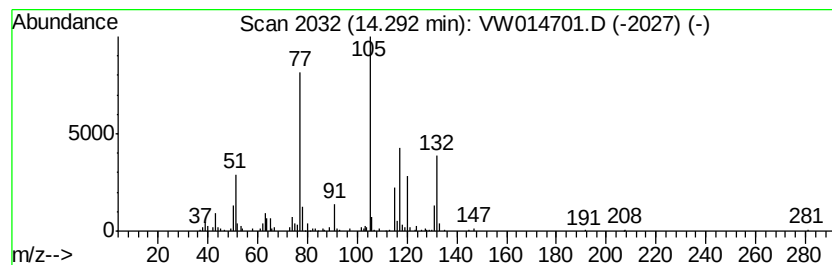
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 8 Acetophenone Concentration Rank 22

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 14.29 | 4.71 ug/L | 192666 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# | of | Tentative ID              | MW  | MolForm | CAS#        | Qual |
|------|----|---------------------------|-----|---------|-------------|------|
| 1    | 5  | Acetophenone              | 120 | C8H8O   | 000098-86-2 | 86   |
| 2    |    | 2-Propen-1-one, 1-phenyl- | 132 | C9H8O   | 000768-03-6 | 53   |
| 3    |    | Acetophenone              | 120 | C8H8O   | 000098-86-2 | 50   |
| 4    |    | Acetophenone              | 120 | C8H8O   | 000098-86-2 | 50   |
| 5    |    | Acetophenone              | 120 | C8H8O   | 000098-86-2 | 50   |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW012020\  
Data File : VW014701.D  
Acq On : 20 Jan 2020 17:50  
Operator : SY/VA  
Sample : L1193-13  
Misc : 5.00G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
GASP4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM122719S.M  
Quant Title : VOC Analysis

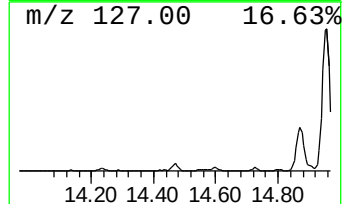
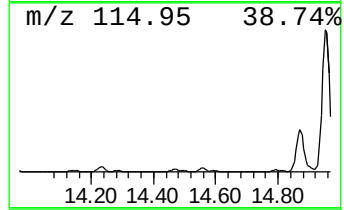
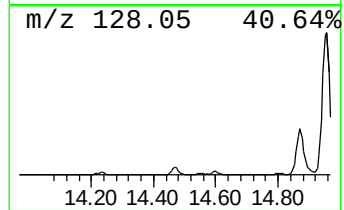
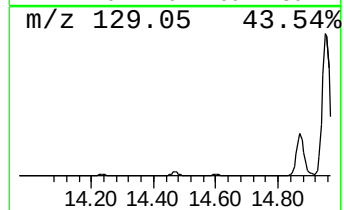
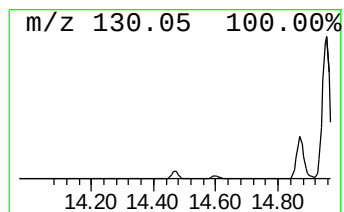
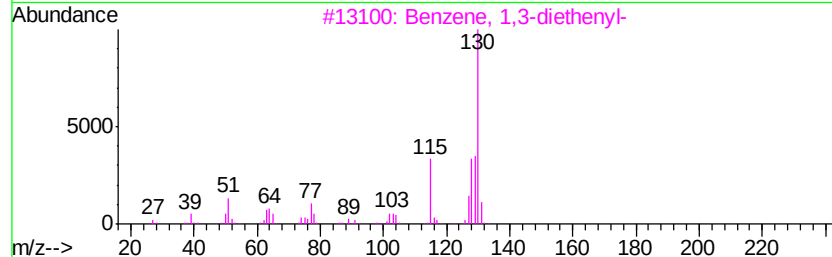
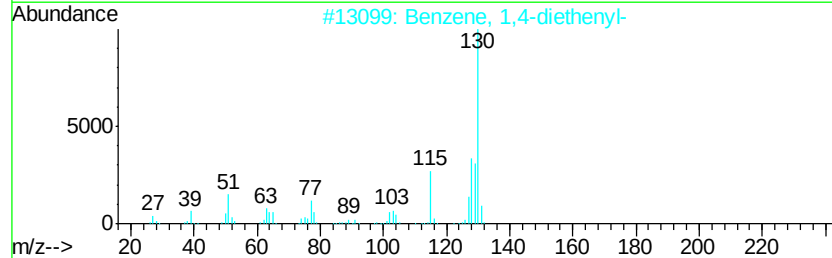
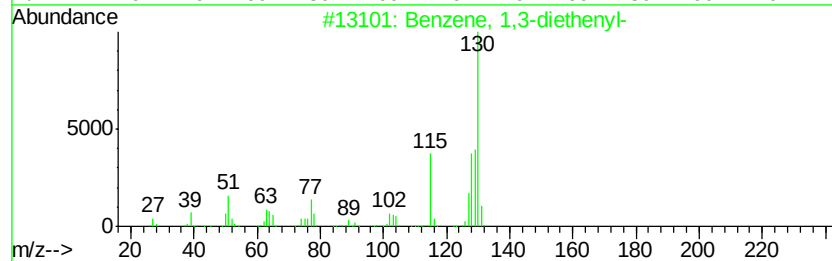
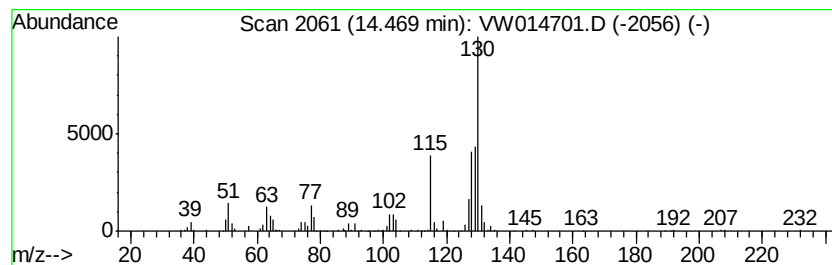
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 9 Benzene, 1,3-diethenyl- Concentration Rank 24

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 14.47 | 3.72 ug/L | 152124 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# | of | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1,3-diethenyl- | 130 | C10H10  | 000108-57-6 | 96   |
| 2    |    | Benzene, 1,4-diethenyl- | 130 | C10H10  | 000105-06-6 | 96   |
| 3    |    | Benzene, 1,3-diethenyl- | 130 | C10H10  | 000108-57-6 | 95   |
| 4    |    | Benzene, 1,3-diethenyl- | 130 | C10H10  | 000108-57-6 | 93   |
| 5    |    | Benzene, 1,4-diethenyl- | 130 | C10H10  | 000105-06-6 | 87   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW012020\  
Data File : VW014701.D  
Acq On : 20 Jan 2020 17:50  
Operator : SY/VA  
Sample : L1193-13  
Misc : 5.00G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
GASP4

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM122719S.M  
Quant Title : VOC Analysis

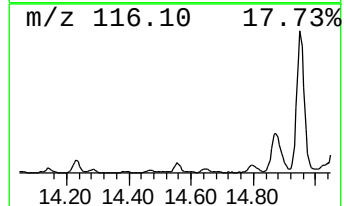
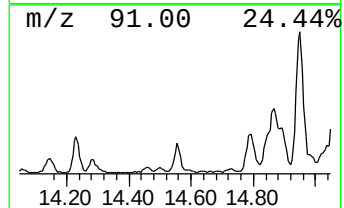
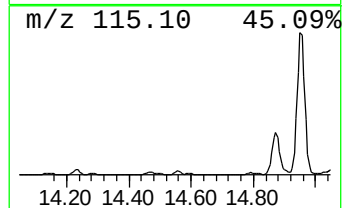
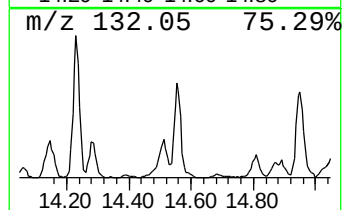
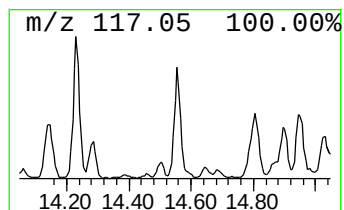
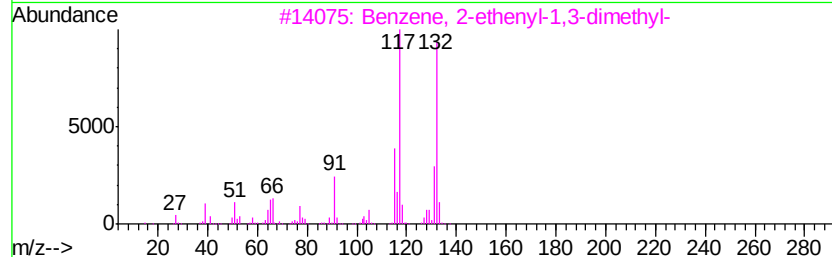
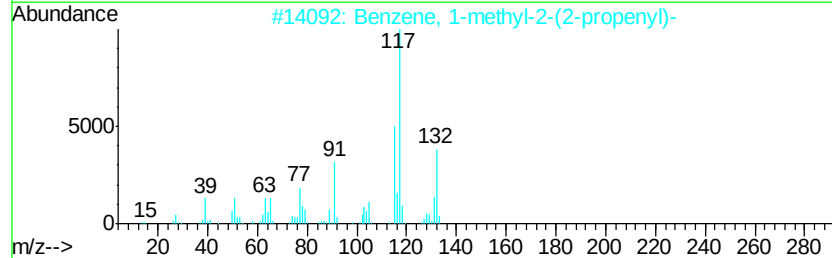
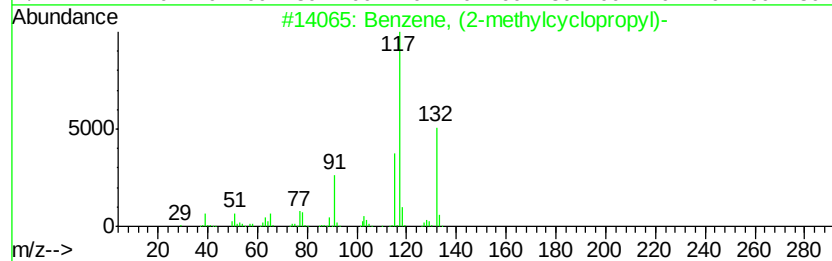
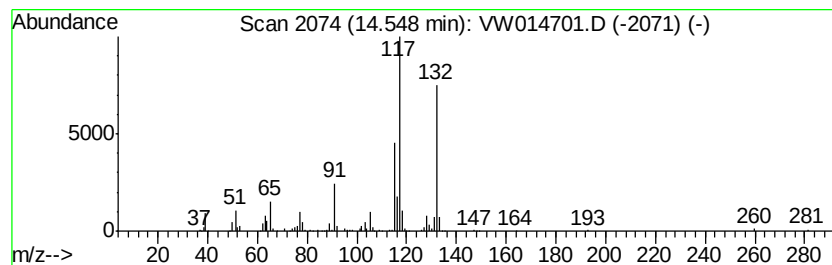
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 10 Benzene, (2-methylcycloprop... Concentration Rank 23

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 14.55 | 3.83 ug/L | 156802 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#         | Qual |
|------|----|-------------------------------------|-----|---------|--------------|------|
| 1    | 5  | Benzene, (2-methylcyclopropyl)-     | 132 | C10H12  | 1000327-39-0 | 93   |
| 2    |    | Benzene, 1-methyl-2-(2-propenyl)-   | 132 | C10H12  | 001587-04-8  | 90   |
| 3    |    | Benzene, 2-ethenyl-1,3-dimethyl-    | 132 | C10H12  | 002039-90-9  | 90   |
| 4    |    | Benzene, (1-methyl-1-propenyl)-,... | 132 | C10H12  | 000768-00-3  | 90   |
| 5    |    | Benzene, 2-butenyl-                 | 132 | C10H12  | 001560-06-1  | 87   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW012020\  
Data File : VW014701.D  
Acq On : 20 Jan 2020 17:50  
Operator : SY/VA  
Sample : L1193-13  
Misc : 5.00G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
GASP4

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM122719S.M  
Quant Title : VOC Analysis

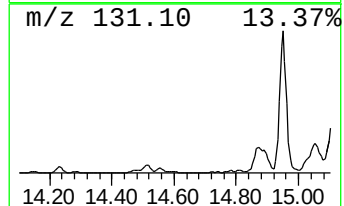
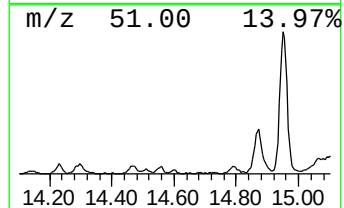
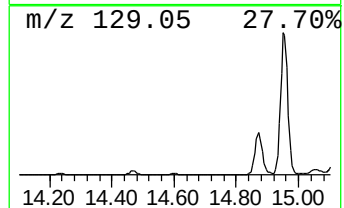
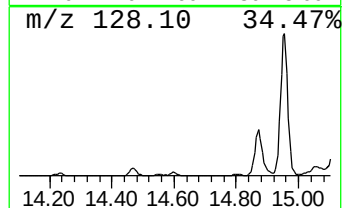
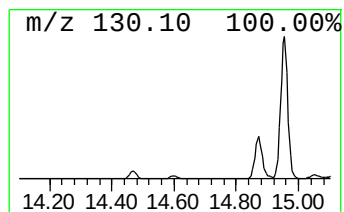
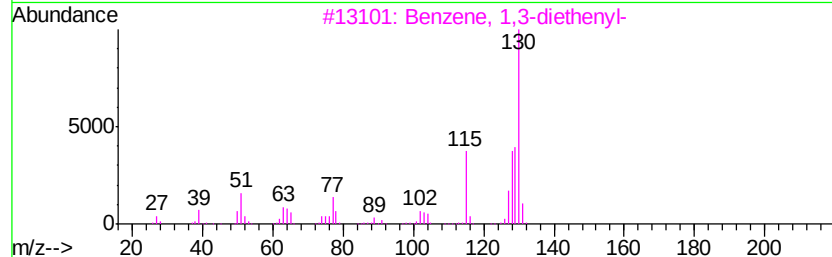
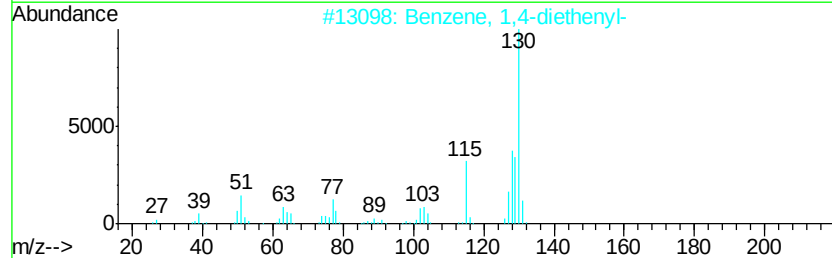
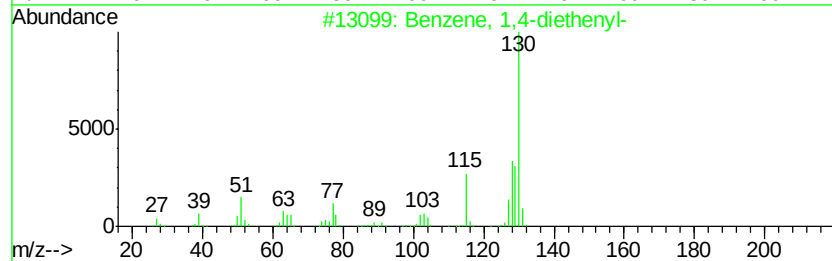
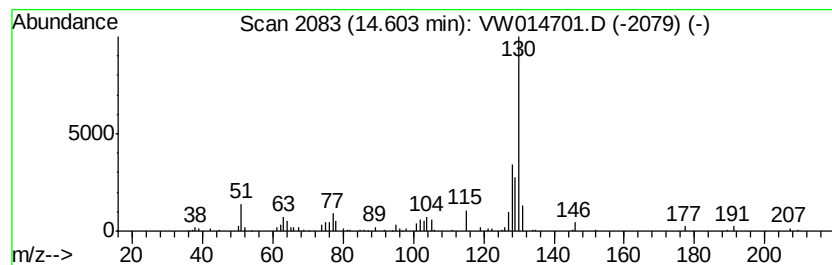
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 11 Benzene, 1,4-diethenyl- Concentration Rank 27

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 14.60 | 1.36 ug/L | 55532 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# | of | Tentative ID              | MW  | MolForm | CAS#        | Qual |
|------|----|---------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1,4-diethenyl-   | 130 | C10H10  | 000105-06-6 | 70   |
| 2    |    | Benzene, 1,4-diethenyl-   | 130 | C10H10  | 000105-06-6 | 49   |
| 3    |    | Benzene, 1,3-diethenyl-   | 130 | C10H10  | 000108-57-6 | 49   |
| 4    |    | Naphthalene, 1,2-dihydro- | 130 | C10H10  | 000447-53-0 | 46   |
| 5    |    | Benzene, 1,3-diethenyl-   | 130 | C10H10  | 000108-57-6 | 46   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW012020\  
Data File : VW014701.D  
Acq On : 20 Jan 2020 17:50  
Operator : SY/VA  
Sample : L1193-13  
Misc : 5.00G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
GASP4

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM122719S.M  
Quant Title : VOC Analysis

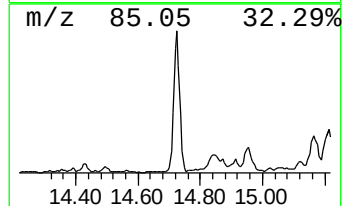
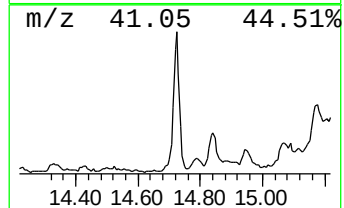
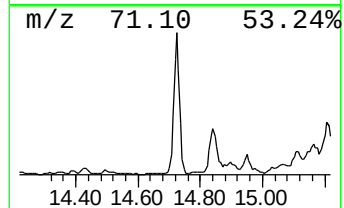
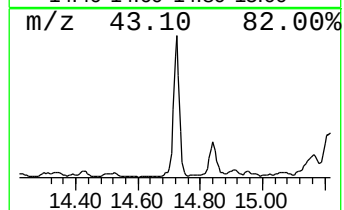
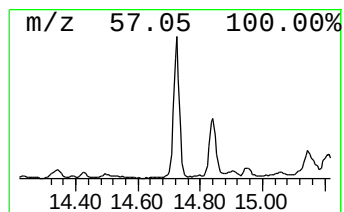
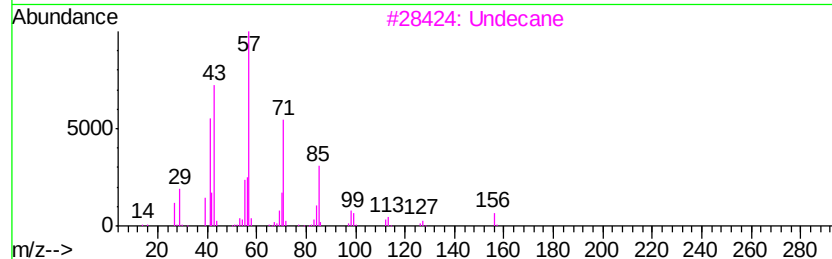
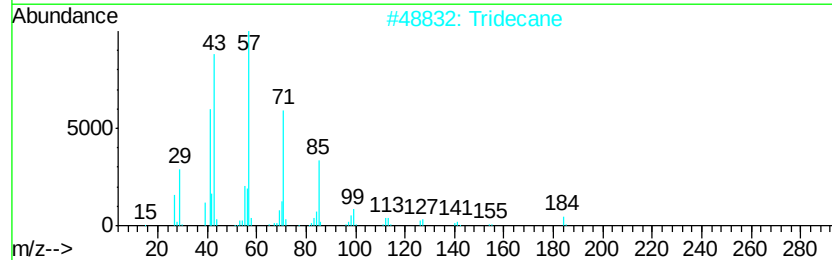
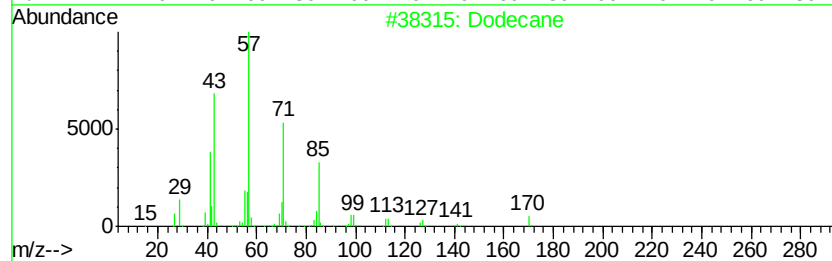
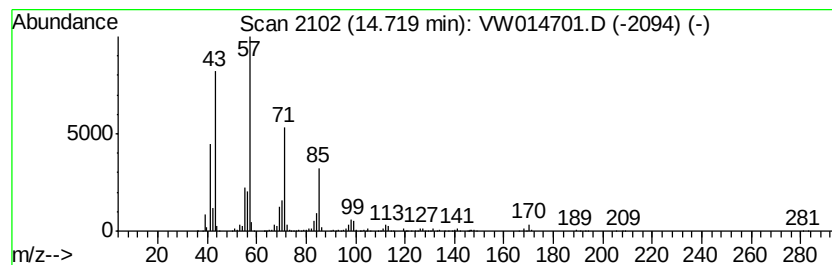
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 12 (DEL) Alkane: Straight-Chai... Concentration Rank 17

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 14.72 | 13.45 ug/L | 550314 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# | of | Tentative ID | MW  | MolForm | CAS#        | Qual |
|------|----|--------------|-----|---------|-------------|------|
| 1    | 5  | Dodecane     | 170 | C12H26  | 000112-40-3 | 97   |
| 2    |    | Tridecane    | 184 | C13H28  | 000629-50-5 | 91   |
| 3    |    | Undecane     | 156 | C11H24  | 001120-21-4 | 90   |
| 4    |    | Tridecane    | 184 | C13H28  | 000629-50-5 | 90   |
| 5    |    | Hexadecane   | 226 | C16H34  | 000544-76-3 | 80   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW012020\  
Data File : VW014701.D  
Acq On : 20 Jan 2020 17:50  
Operator : SY/VA  
Sample : L1193-13  
Misc : 5.00G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
GASP4

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM122719S.M  
Quant Title : VOC Analysis

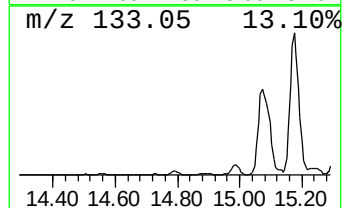
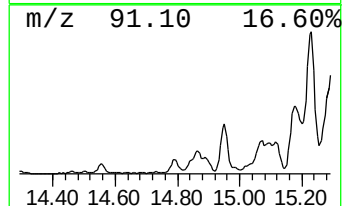
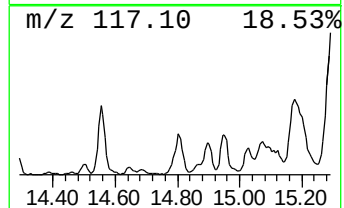
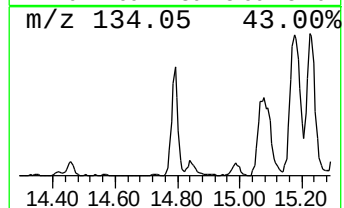
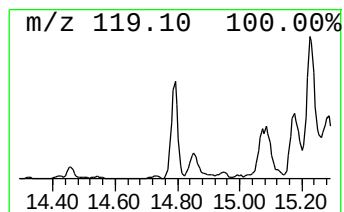
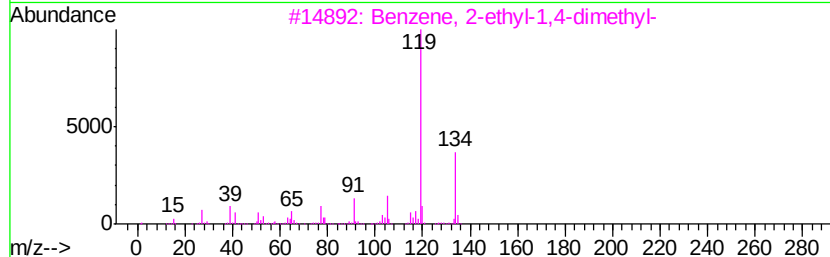
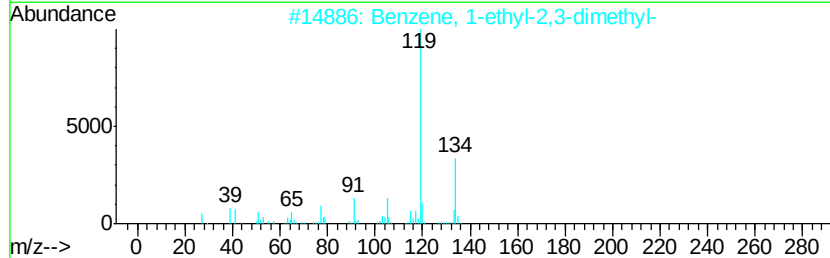
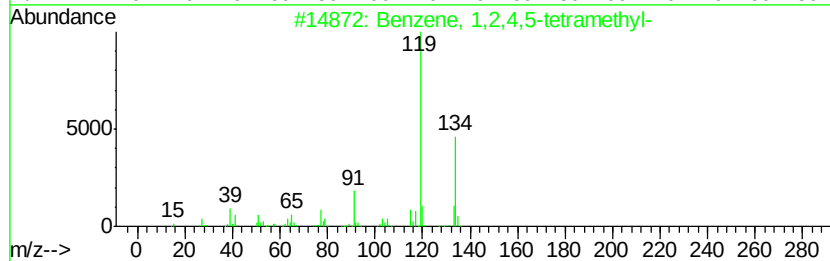
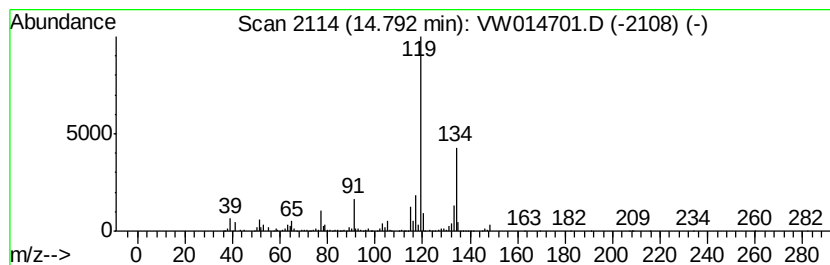
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 13 Benzene, 1,2,4,5-tetramethyl- Concentration Rank 18

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 14.79 | 8.16 ug/L | 333821 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# | of | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1,2,4,5-tetramethyl-  | 134 | C10H14  | 000095-93-2 | 93   |
| 2    |    | Benzene, 1-ethyl-2,3-dimethyl- | 134 | C10H14  | 000933-98-2 | 90   |
| 3    |    | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14  | 001758-88-9 | 90   |
| 4    |    | Benzene, 1,2,3,5-tetramethyl-  | 134 | C10H14  | 000527-53-7 | 90   |
| 5    |    | p-Cymene                       | 134 | C10H14  | 000099-87-6 | 90   |





Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW012020\  
Data File : VW014701.D  
Acq On : 20 Jan 2020 17:50  
Operator : SY/VA  
Sample : L1193-13  
Misc : 5.00G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
GASP4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM122719S.M  
Quant Title : VOC Analysis

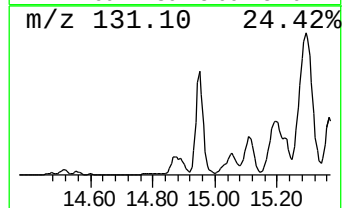
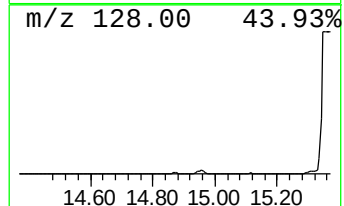
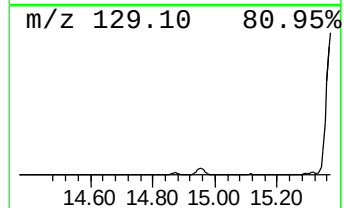
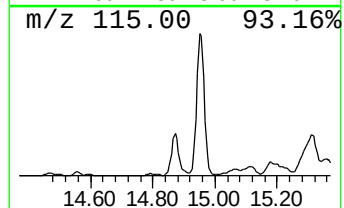
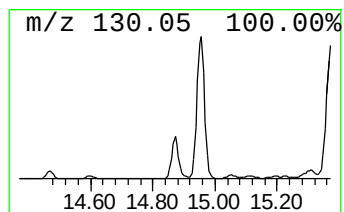
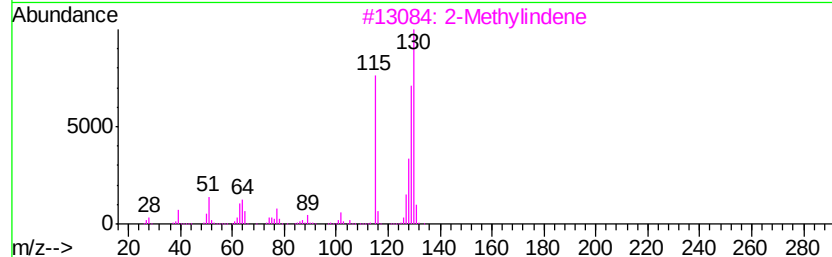
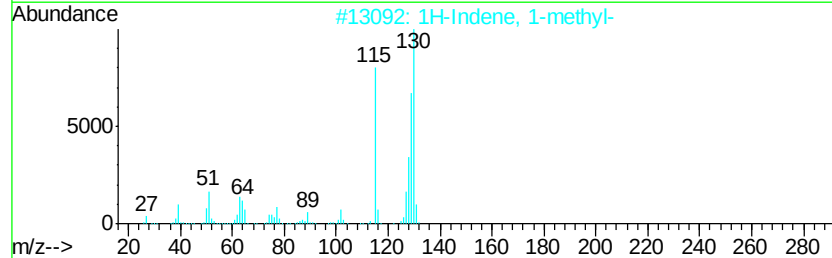
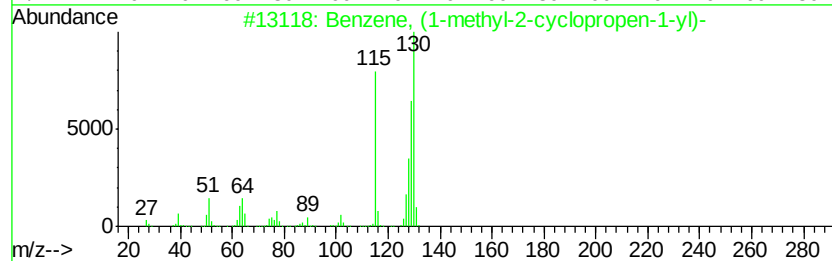
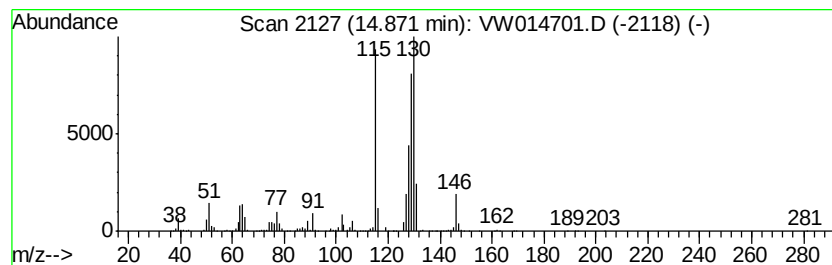
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 14 Benzene, (1-methyl-2-cyclop... Concentration Rank 13

| R.T.  | EstConc    | Area    | Relative to ISTD       | R.T.  |
|-------|------------|---------|------------------------|-------|
| 14.87 | 38.88 ug/L | 1590640 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, (1-methyl-2-cyclopropen... | 130 | C10H10  | 065051-83-4 | 96   |
| 2    |    | 1H-Indene, 1-methyl-                | 130 | C10H10  | 000767-59-9 | 96   |
| 3    |    | 2-Methylindene                      | 130 | C10H10  | 002177-47-1 | 96   |
| 4    |    | Cycloprop[alindene, 1,1a,6,6a-te... | 130 | C10H10  | 015677-15-3 | 95   |
| 5    |    | Benzene,1-methyl-1,2-propadienyl-   | 130 | C10H10  | 022433-39-2 | 93   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW012020\  
Data File : VW014701.D  
Acq On : 20 Jan 2020 17:50  
Operator : SY/VA  
Sample : L1193-13  
Misc : 5.00G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
GASP4

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM122719S.M  
Quant Title : VOC Analysis

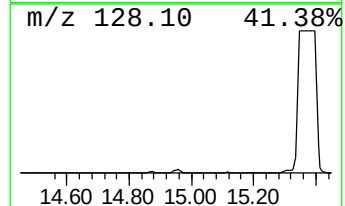
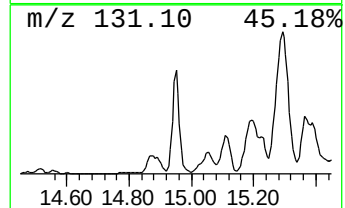
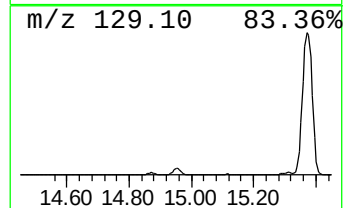
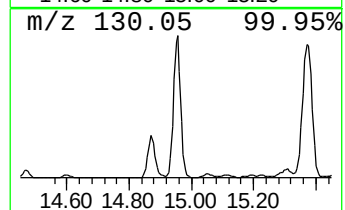
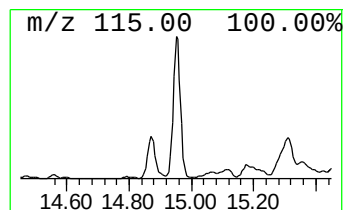
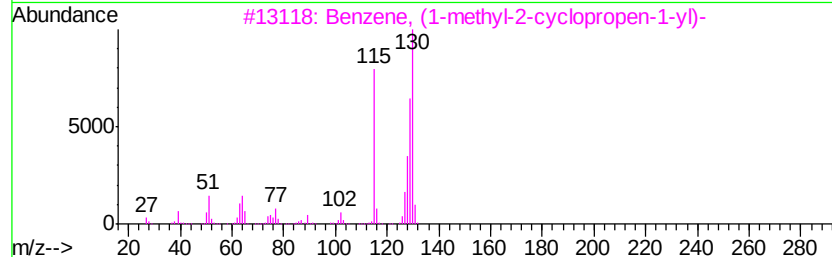
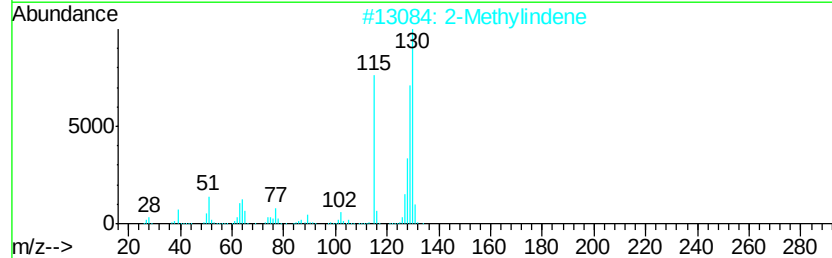
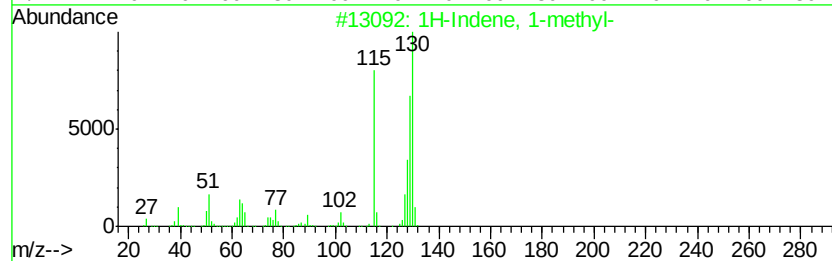
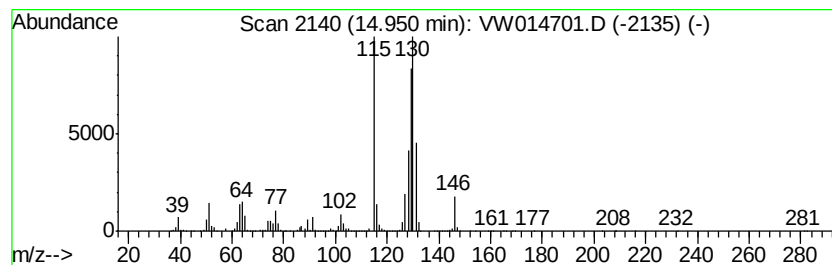
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 15 1H-Indene, 1-methyl- Concentration Rank 11

| R.T.  | EstConc     | Area    | Relative to ISTD       | R.T.  |
|-------|-------------|---------|------------------------|-------|
| 14.95 | 110.15 ug/L | 4506270 | 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 | 96   |
| 2    |    | 2-Methylindene                          | 130 | C10H10  | 002177-47-1 | 95   |
| 3    |    | Benzene, (1-methyl-2-cyclopropen-1-yl)- | 130 | C10H10  | 065051-83-4 | 94   |
| 4    |    | Benzene, 1-butynyl-                     | 130 | C10H10  | 000622-76-4 | 92   |
| 5    |    | 2-Methylindene                          | 130 | C10H10  | 002177-47-1 | 89   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW012020\  
Data File : VW014701.D  
Acq On : 20 Jan 2020 17:50  
Operator : SY/VA  
Sample : L1193-13  
Misc : 5.00G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
GASP4

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM122719S.M  
Quant Title : VOC Analysis

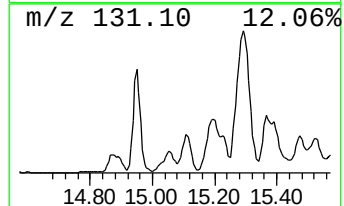
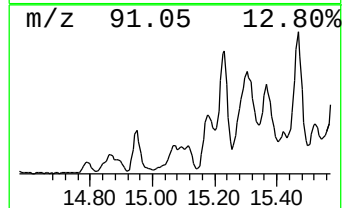
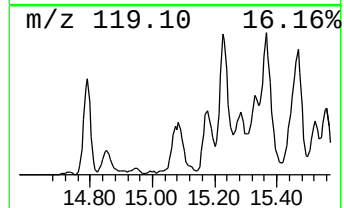
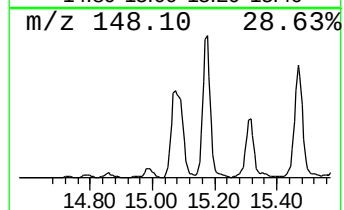
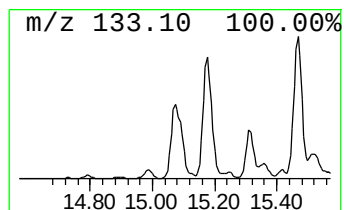
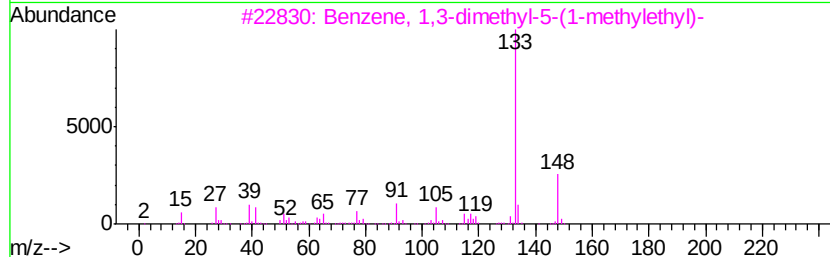
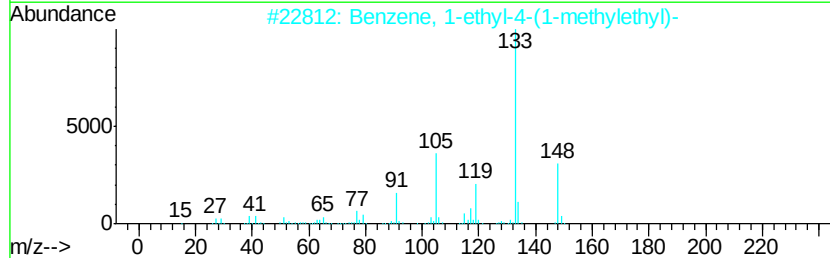
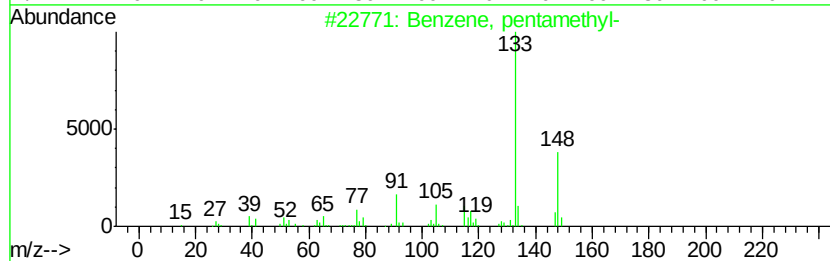
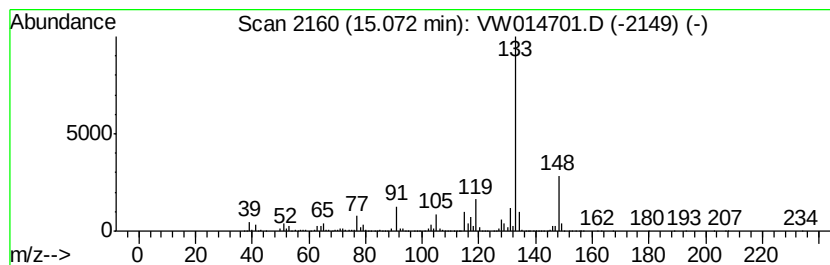
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 16 Benzene, pentamethyl- Concentration Rank 14

| R.T.  | EstConc    | Area    | Relative to ISTD       | R.T.  |
|-------|------------|---------|------------------------|-------|
| 15.07 | 28.43 ug/L | 1163260 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#         | Qual |
|------|----|-------------------------------------|-----|---------|--------------|------|
| 1    | 5  | Benzene, pentamethyl-               | 148 | C11H16  | 000700-12-9  | 87   |
| 2    |    | Benzene, 1-ethyl-4-(1-methylethyl)- | 148 | C11H16  | 004218-48-8  | 87   |
| 3    |    | Benzene, 1,3-dimethyl-5-(1-methv... | 148 | C11H16  | 004706-90-5  | 83   |
| 4    |    | 3,4-Dimethylcumene                  | 148 | C11H16  | 1000370-34-1 | 83   |
| 5    |    | Benzene, 2,4-dimethyl-1-(1-methy... | 148 | C11H16  | 004706-89-2  | 81   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW012020\  
Data File : VW014701.D  
Acq On : 20 Jan 2020 17:50  
Operator : SY/VA  
Sample : L1193-13  
Misc : 5.00G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampled :  
GASP4

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM122719S.M  
Quant Title : VOC Analysis

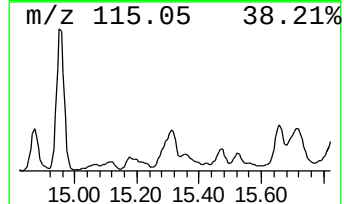
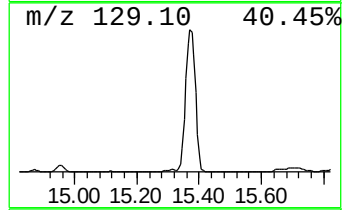
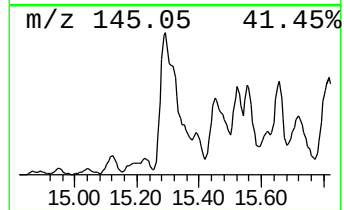
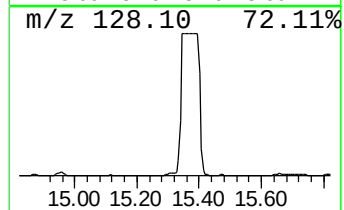
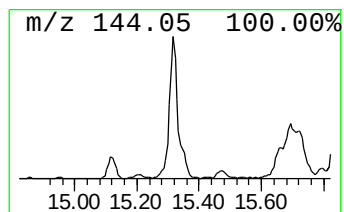
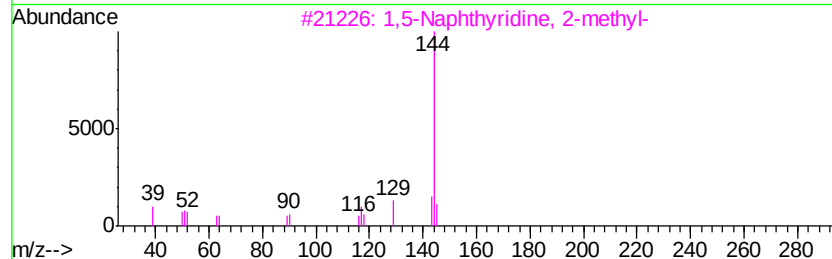
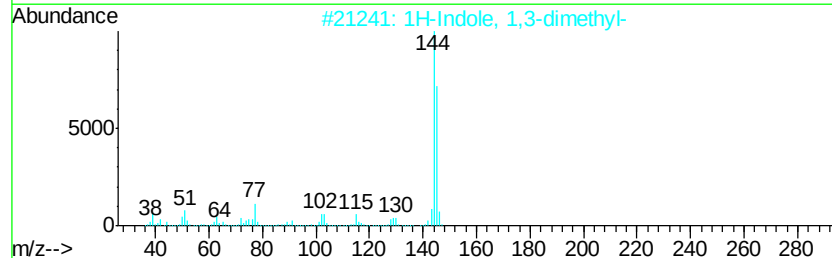
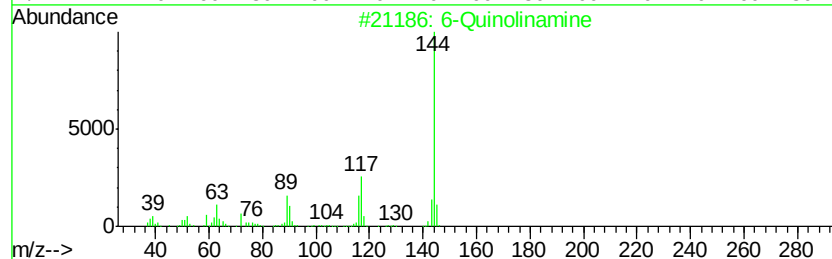
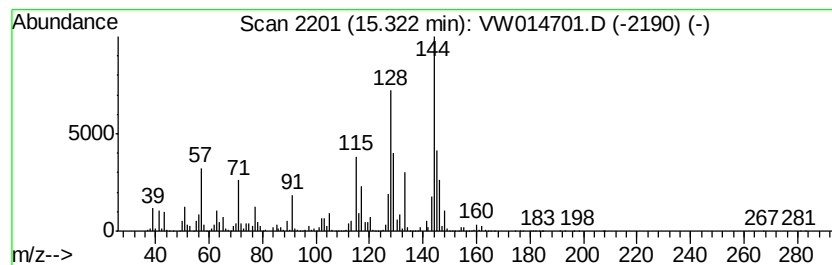
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 18 unknown-01 Concentration Rank 9

| R.T.  | EstConc     | Area    | Relative to ISTD       | R.T.  |
|-------|-------------|---------|------------------------|-------|
| 15.32 | 131.19 ug/L | 5366780 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# | of | Tentative ID                 | MW  | MolForm | CAS#        | Qual |
|------|----|------------------------------|-----|---------|-------------|------|
| 1    | 5  | 6-Quinolinamine              | 144 | C9H8N2  | 000580-15-4 | 35   |
| 2    |    | 1H-Indole, 1,3-dimethyl-     | 145 | C10H11N | 000875-30-9 | 35   |
| 3    |    | 1,5-Naphthyridine, 2-methyl- | 144 | C9H8N2  | 007675-32-3 | 30   |
| 4    |    | 1,6-Naphthyridine, 4-methyl- | 144 | C9H8N2  | 007675-30-1 | 30   |
| 5    |    | Benzenethiol, 2-chloro-      | 144 | C6H5ClS | 006320-03-2 | 22   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW012020\  
Data File : VW014701.D  
Acq On : 20 Jan 2020 17:50  
Operator : SY/VA  
Sample : L1193-13  
Misc : 5.00G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

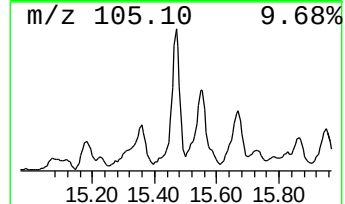
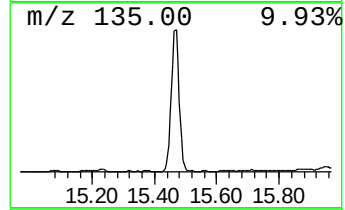
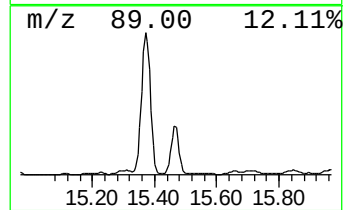
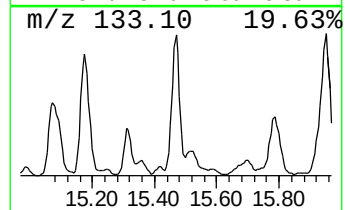
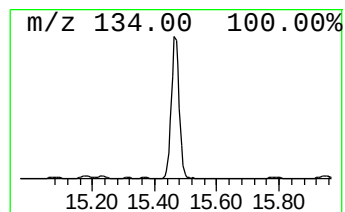
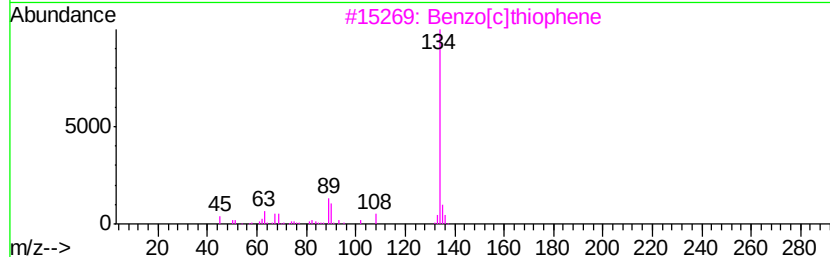
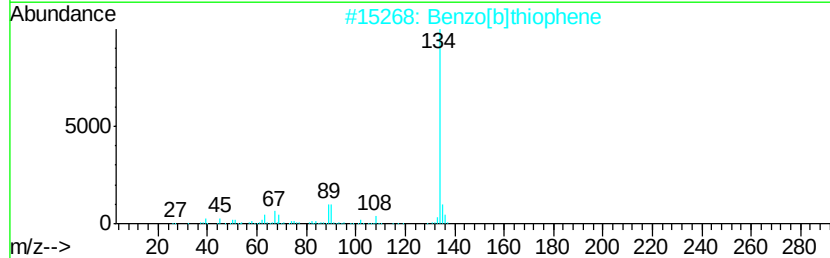
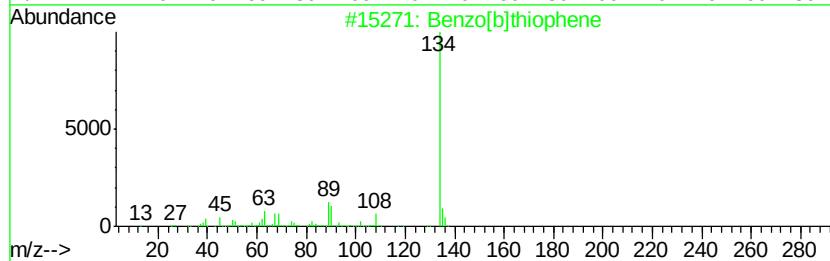
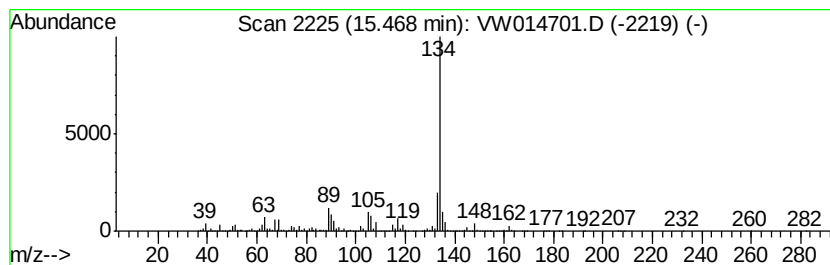
Instrument :  
MSVOA\_W  
ClientSampleId :  
GASP4

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM122719S.M  
Quant Title : VOC Analysis

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

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Peak Number 20 Benzo[b]thiophene Concentration Rank 5

| R.T.      | EstConc                | Area    | Relative to ISTD       | R.T.        |      |
|-----------|------------------------|---------|------------------------|-------------|------|
| 15.47     | 204.82 ug/L            | 8379070 | 1,4-Dichlorobenzene-d4 | 13.55       |      |
| Hit# of 5 | Tentative ID           | MW      | MolForm                | CAS#        | Qual |
| 1         | Benzo[b]thiophene      | 134     | C8H6S                  | 000095-15-8 | 95   |
| 2         | Benzo[b]thiophene      | 134     | C8H6S                  | 000095-15-8 | 93   |
| 3         | Benzo[c]thiophene      | 134     | C8H6S                  | 000270-82-6 | 93   |
| 4         | Cyclopenta[c]thiapyran | 134     | C8H6S                  | 000270-63-3 | 76   |
| 5         | Benzo[b]thiophene      | 134     | C8H6S                  | 000095-15-8 | 76   |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW012020\  
Data File : VW014701.D  
Acq On : 20 Jan 2020 17:50  
Operator : SY/VA  
Sample : L1193-13  
Misc : 5.00G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
GASP4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM122719S.M  
Quant Title : VOC Analysis

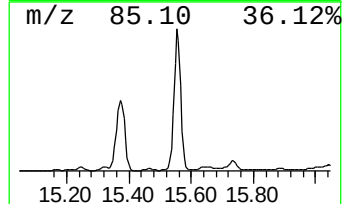
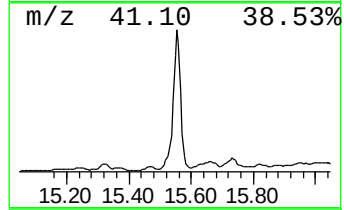
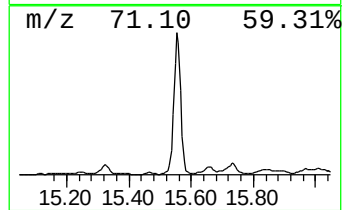
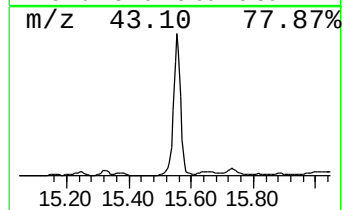
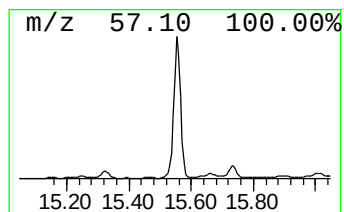
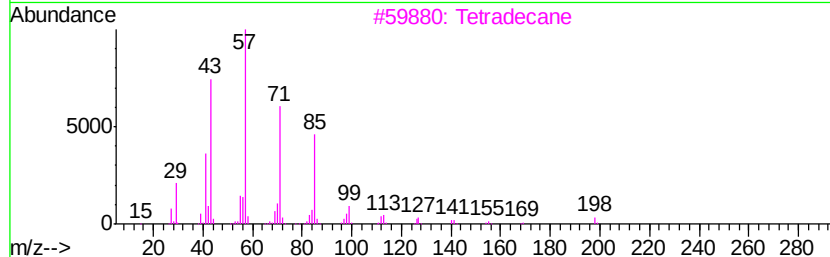
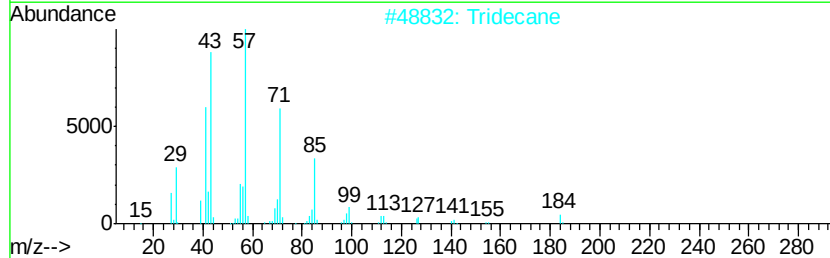
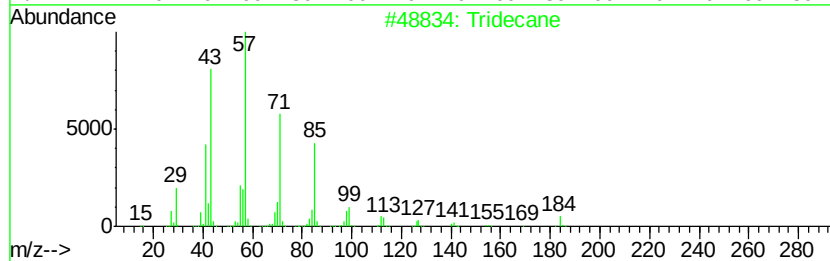
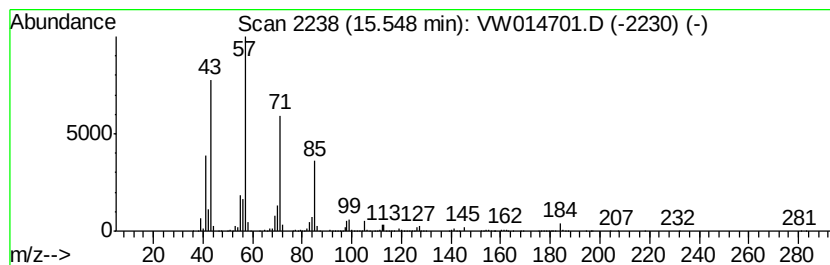
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 21 (DEL) Alkane: Straight-Chai... Concentration Rank 4

| R.T.  | EstConc     | Area     | Relative to ISTD       | R.T.  |
|-------|-------------|----------|------------------------|-------|
| 15.55 | 391.45 ug/L | 16014100 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# | of | Tentative ID | MW  | MolForm | CAS#        | Qual |
|------|----|--------------|-----|---------|-------------|------|
| 1    | 5  | Tridecane    | 184 | C13H28  | 000629-50-5 | 95   |
| 2    |    | Tridecane    | 184 | C13H28  | 000629-50-5 | 90   |
| 3    |    | Tetradecane  | 198 | C14H30  | 000629-59-4 | 90   |
| 4    |    | Dodecane     | 170 | C12H26  | 000112-40-3 | 90   |
| 5    |    | Tridecane    | 184 | C13H28  | 000629-50-5 | 87   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW012020\  
Data File : VW014701.D  
Acq On : 20 Jan 2020 17:50  
Operator : SY/VA  
Sample : L1193-13  
Misc : 5.00G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
GASP4

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM122719S.M  
Quant Title : VOC Analysis

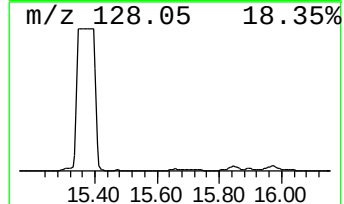
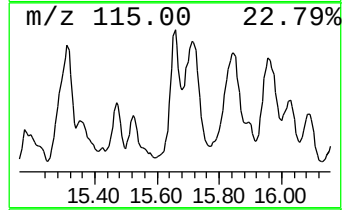
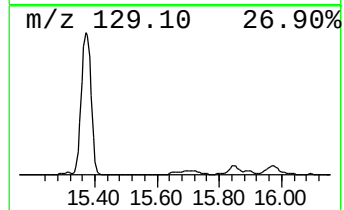
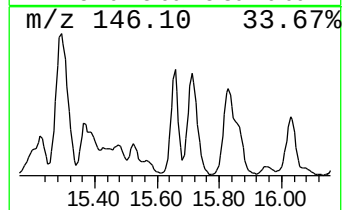
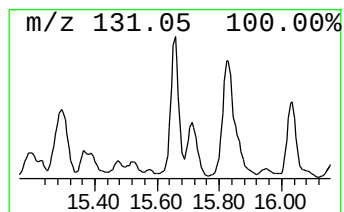
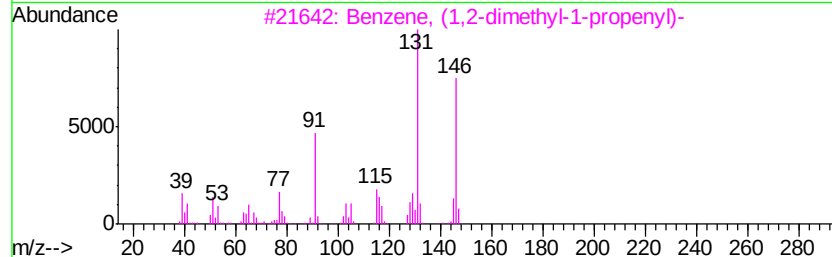
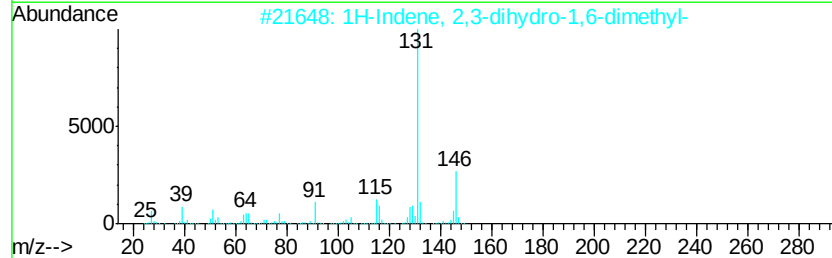
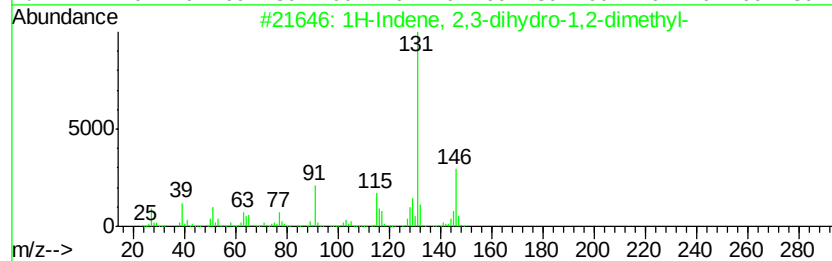
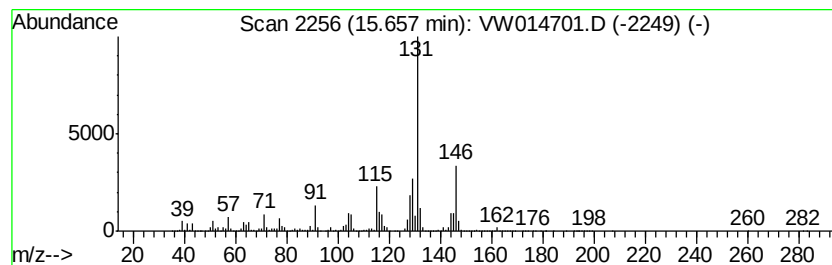
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 22 1H-Indene, 2,3-dihydro-1,2-... Concentration Rank 7

| R.T.  | EstConc     | Area    | Relative to ISTD       | R.T.  |
|-------|-------------|---------|------------------------|-------|
| 15.66 | 138.02 ug/L | 5646120 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | 1H-Indene, 2,3-dihydro-1,2-dimet... | 146 | C11H14  | 017057-82-8 | 87   |
| 2    |    | 1H-Indene, 2,3-dihydro-1,6-dimet... | 146 | C11H14  | 017059-48-2 | 81   |
| 3    |    | Benzene, (1,2-dimethyl-1-propenyl)- | 146 | C11H14  | 000769-57-3 | 81   |
| 4    |    | Benzene, (3-methyl-2-butenyl)-      | 146 | C11H14  | 004489-84-3 | 81   |
| 5    |    | 1H-Indene, 2,3-dihydro-4,7-dimet... | 146 | C11H14  | 006682-71-9 | 76   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW012020\  
Data File : VW014701.D  
Acq On : 20 Jan 2020 17:50  
Operator : SY/VA  
Sample : L1193-13  
Misc : 5.00G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
GASP4

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM122719S.M  
Quant Title : VOC Analysis

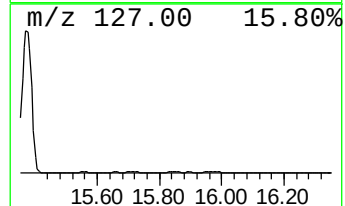
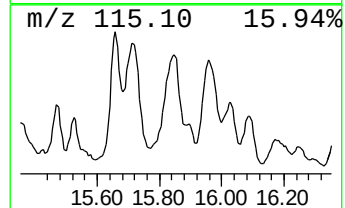
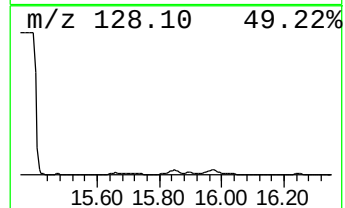
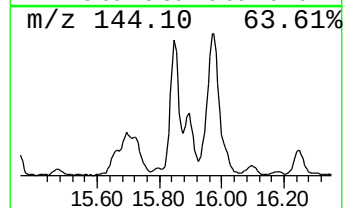
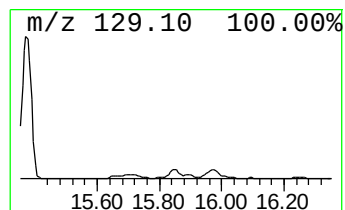
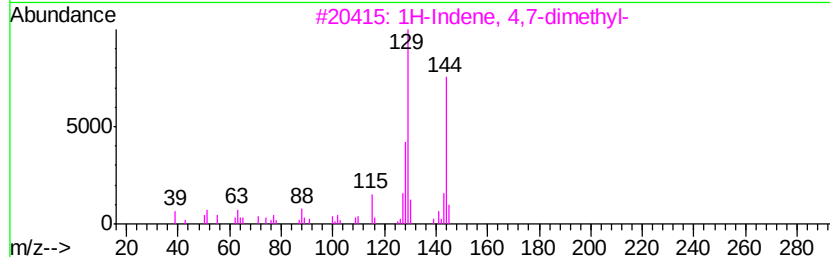
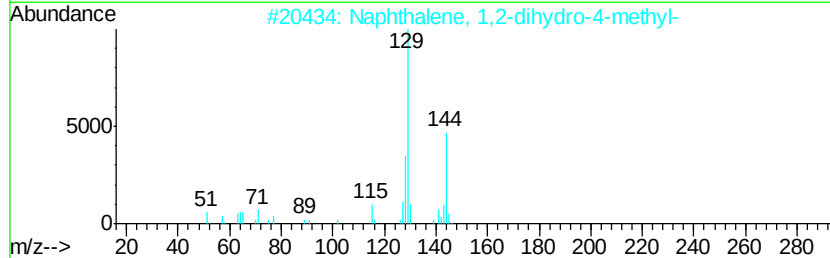
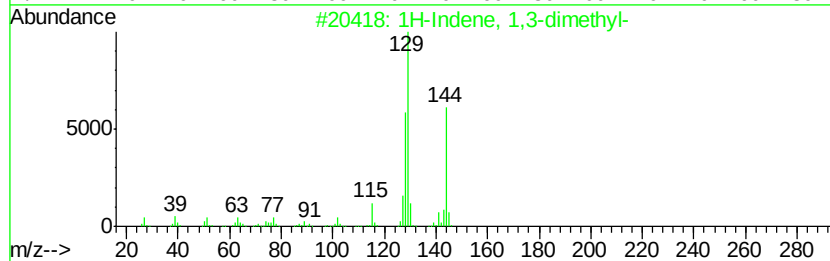
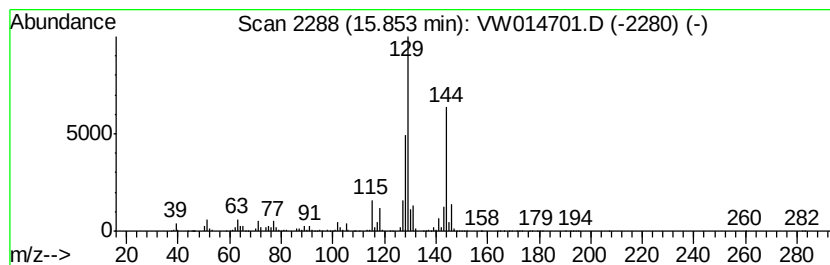
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 23 1H-Indene, 1,3-dimethyl- Concentration Rank 10

| R.T.  | EstConc     | Area    | Relative to ISTD       | R.T.  |
|-------|-------------|---------|------------------------|-------|
| 15.85 | 117.98 ug/L | 4826580 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# | of | Tentative ID                       | MW  | MolForm | CAS#        | Qual |
|------|----|------------------------------------|-----|---------|-------------|------|
| 1    | 5  | 1H-Indene, 1,3-dimethyl-           | 144 | C11H12  | 002177-48-2 | 95   |
| 2    |    | Naphthalene, 1,2-dihydro-4-methyl- | 144 | C11H12  | 004373-13-1 | 91   |
| 3    |    | 1H-Indene, 4,7-dimethyl-           | 144 | C11H12  | 006974-97-6 | 87   |
| 4    |    | 1H-Indene, 1,1-dimethyl-           | 144 | C11H12  | 018636-55-0 | 81   |
| 5    |    | 1H-Indene, 2,3-dimethyl-           | 144 | C11H12  | 004773-82-4 | 76   |





Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW012020\  
Data File : VW014701.D  
Acq On : 20 Jan 2020 17:50  
Operator : SY/VA  
Sample : L1193-13  
Misc : 5.00G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
GASP4

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM122719S.M  
Quant Title : VOC Analysis

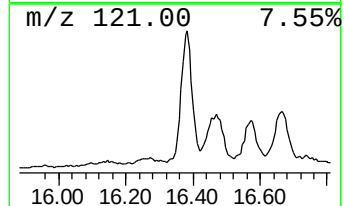
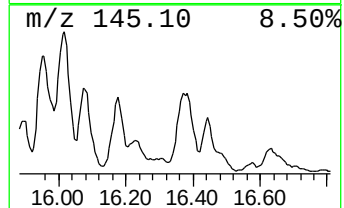
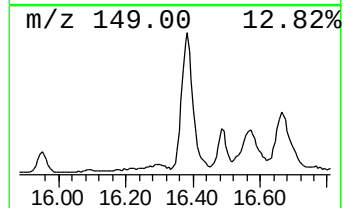
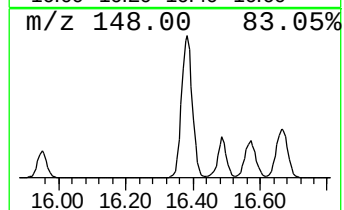
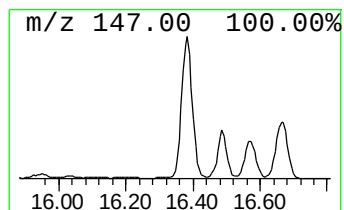
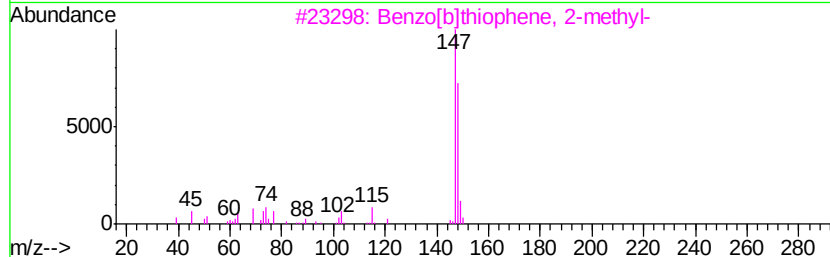
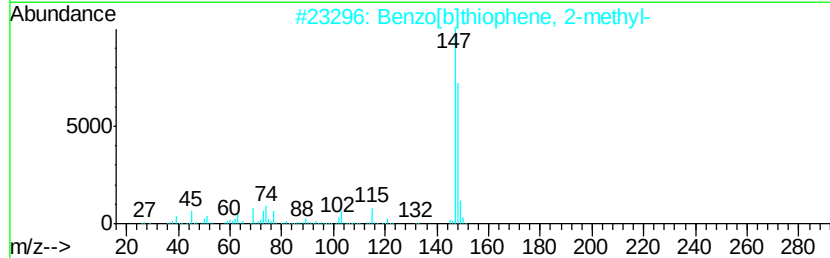
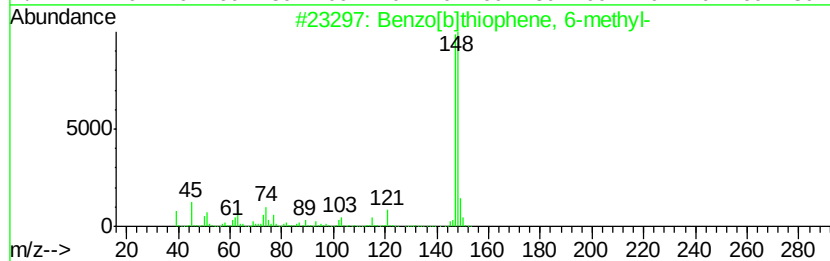
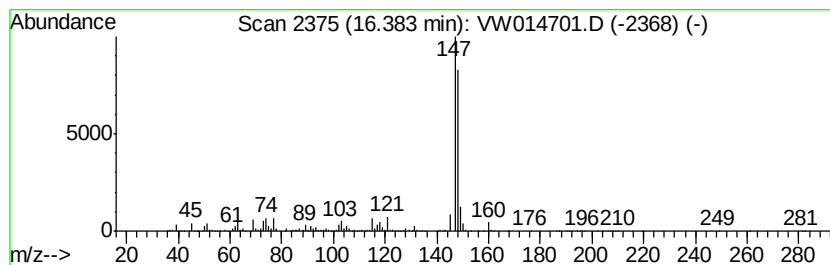
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 25 Benzo[b]thiophene, 6-methyl- Concentration Rank 6

| R.T.  | EstConc     | Area    | Relative to ISTD       | R.T.  |
|-------|-------------|---------|------------------------|-------|
| 16.38 | 163.45 ug/L | 6686490 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# | of | Tentative ID                 | MW  | MolForm | CAS#        | Qual |
|------|----|------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzo[b]thiophene, 6-methyl- | 148 | C9H8S   | 016587-47-6 | 90   |
| 2    |    | Benzo[b]thiophene, 2-methyl- | 148 | C9H8S   | 001195-14-8 | 90   |
| 3    |    | Benzo[b]thiophene, 2-methyl- | 148 | C9H8S   | 001195-14-8 | 90   |
| 4    |    | Benzo[b]thiophene, 5-methyl- | 148 | C9H8S   | 014315-14-1 | 87   |
| 5    |    | Benzo[b]thiophene, 4-methyl- | 148 | C9H8S   | 014315-11-8 | 87   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW012020\  
Data File : VW014701.D  
Acq On : 20 Jan 2020 17:50  
Operator : SY/VA  
Sample : L1193-13  
Misc : 5.00G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
GASP4

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM122719S.M  
Quant Title : VOC Analysis

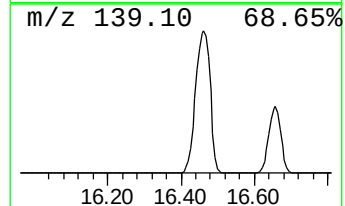
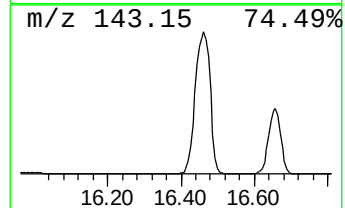
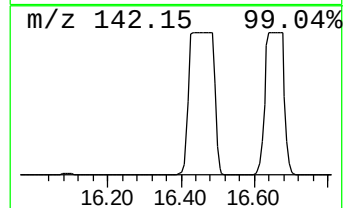
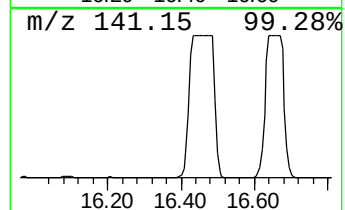
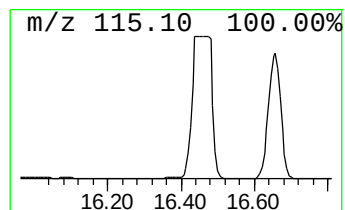
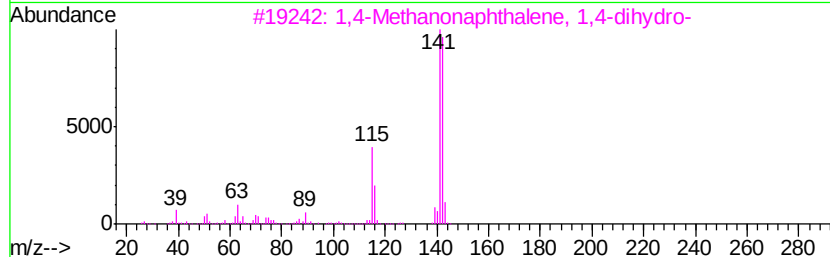
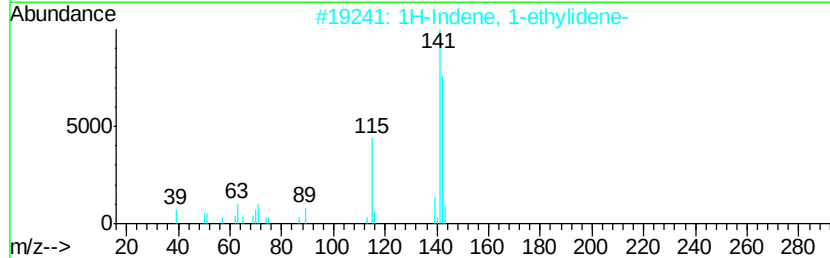
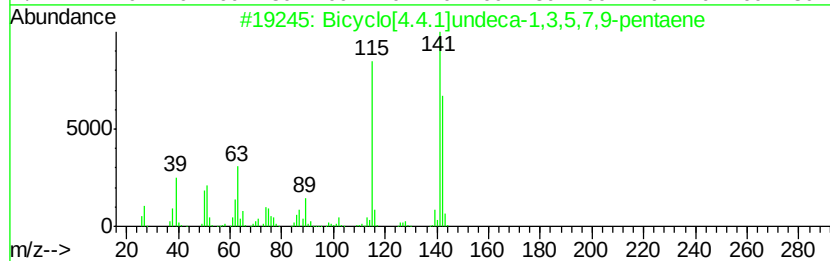
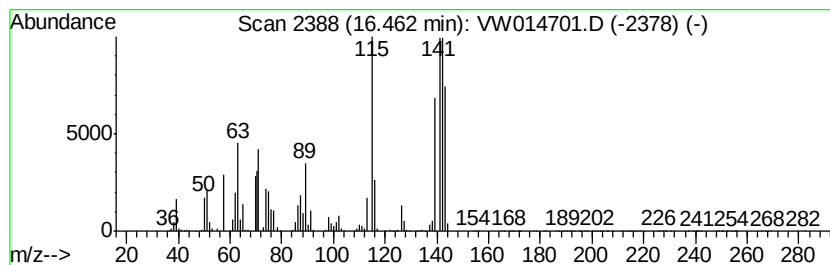
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 26 Bicyclo[4.4.1]undeca-1,3,5,... Concentration Rank 1

| R.T.  | EstConc      | Area      | Relative to ISTD       | R.T.  |
|-------|--------------|-----------|------------------------|-------|
| 16.46 | 8106.99 ug/L | 331652000 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Bicyclo[4.4.1]undeca-1,3,5,7,9-p... | 142 | C11H10  | 002443-46-1 | 76   |
| 2    |    | 1H-Indene, 1-ethylidene-            | 142 | C11H10  | 002471-83-2 | 74   |
| 3    |    | 1,4-Methanonaphthalene, 1,4-dihv... | 142 | C11H10  | 004453-90-1 | 68   |
| 4    |    | Benzocycloheptatriene               | 142 | C11H10  | 000264-09-5 | 68   |
| 5    |    | Bicyclo[4.4.1]undeca-1,3,5,7,9-p... | 142 | C11H10  | 002443-46-1 | 59   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW012020\  
Data File : VW014701.D  
Acq On : 20 Jan 2020 17:50  
Operator : SY/VA  
Sample : L1193-13  
Misc : 5.00G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
GASP4

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM122719S.M  
Quant Title : VOC Analysis

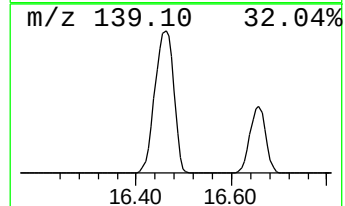
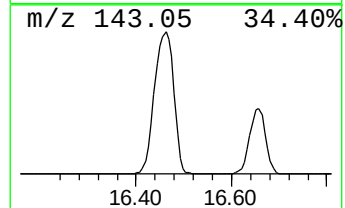
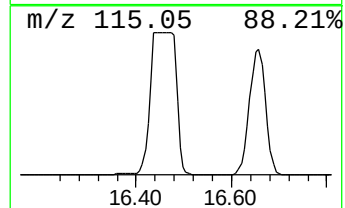
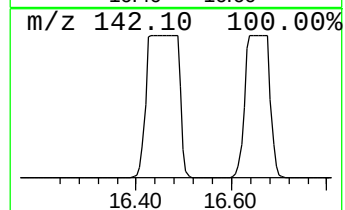
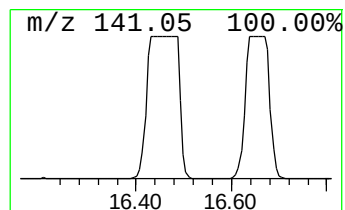
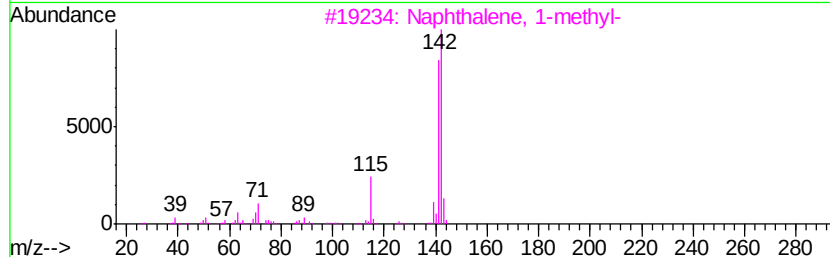
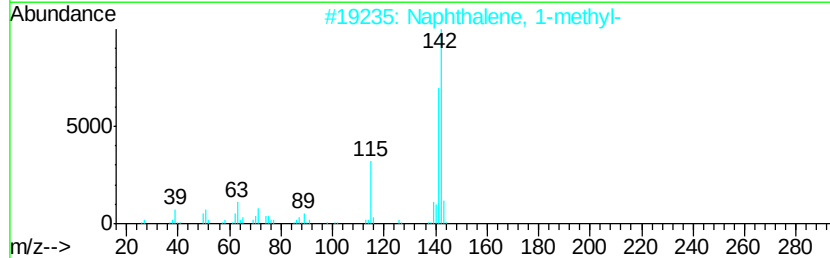
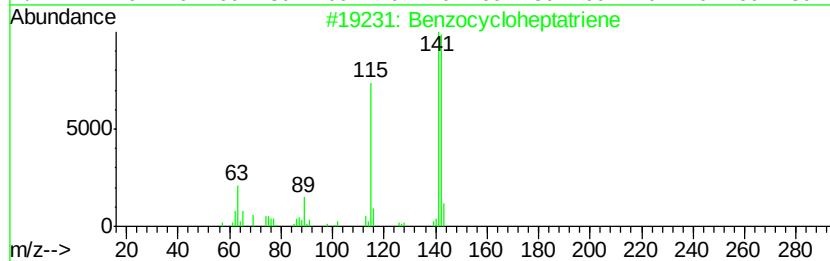
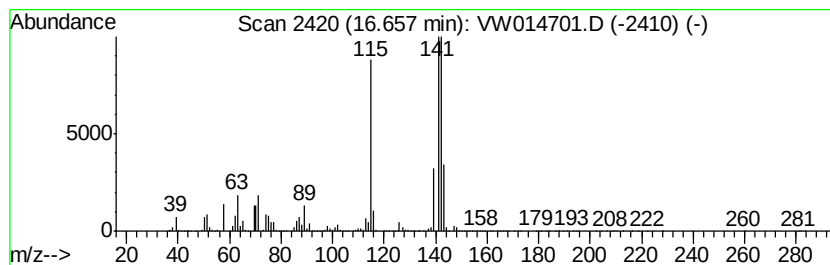
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 27 Benzocycloheptatriene Concentration Rank 3

| R.T.  | EstConc      | Area      | Relative to ISTD       | R.T.  |
|-------|--------------|-----------|------------------------|-------|
| 16.66 | 3811.56 ug/L | 155928000 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# of | 5 | Tentative ID           | MW  | MolForm | CAS#        | Qual |
|---------|---|------------------------|-----|---------|-------------|------|
| 1       |   | Benzocycloheptatriene  | 142 | C11H10  | 000264-09-5 | 95   |
| 2       |   | Naphthalene, 1-methyl- | 142 | C11H10  | 000090-12-0 | 91   |
| 3       |   | Naphthalene, 1-methyl- | 142 | C11H10  | 000090-12-0 | 91   |
| 4       |   | Benzocycloheptatriene  | 142 | C11H10  | 000264-09-5 | 87   |
| 5       |   | Naphthalene, 2-methyl- | 142 | C11H10  | 000091-57-6 | 87   |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW012020\  
 Data File : VW014701.D  
 Acq On : 20 Jan 2020 17:50  
 Operator : SY/VA  
 Sample : L1193-13  
 Misc : 5.00G/10ML/MSVOA\_W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 GASP4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM122719S.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 |
| Benzene, 1-etheny... | 13.30 | 26.1    | ug/L  | 1066370   | 3                     | 13.55 | 1022730 | 25.0 |
| Benzene, 1-etheny... | 13.35 | 7.1     | ug/L  | 290932    | 3                     | 13.55 | 1022730 | 25.0 |
| Benzofuran           | 13.47 | 1.4     | ug/L  | 56813     | 3                     | 13.55 | 1022730 | 25.0 |
| Indene               | 13.94 | 26.3    | ug/L  | 1076570   | 3                     | 13.55 | 1022730 | 25.0 |
| 2,4-Dimethylstyrene  | 14.14 | 2.7     | ug/L  | 111472    | 3                     | 13.55 | 1022730 | 25.0 |
| Benzene, 1-etheny... | 14.23 | 6.9     | ug/L  | 281628    | 3                     | 13.55 | 1022730 | 25.0 |
| Acetophenone         | 14.29 | 4.7     | ug/L  | 192666    | 3                     | 13.55 | 1022730 | 25.0 |
| Benzene, 1,3-diet... | 14.47 | 3.7     | ug/L  | 152124    | 3                     | 13.55 | 1022730 | 25.0 |
| Benzene, (2-methy... | 14.55 | 3.8     | ug/L  | 156802    | 3                     | 13.55 | 1022730 | 25.0 |
| Benzene, 1,4-diet... | 14.60 | 1.4     | ug/L  | 55532     | 3                     | 13.55 | 1022730 | 25.0 |
| (DEL) Alkane: Str... | 14.72 | 13.4    | ug/L  | 550314    | 3                     | 13.55 | 1022730 | 25.0 |
| Benzene, 1,2,4,5-... | 14.79 | 8.2     | ug/L  | 333821    | 3                     | 13.55 | 1022730 | 25.0 |
| Benzene, (1-methy... | 14.87 | 38.9    | ug/L  | 1590640   | 3                     | 13.55 | 1022730 | 25.0 |
| 1H-Indene, 1-methyl- | 14.95 | 110.2   | ug/L  | 4506270   | 3                     | 13.55 | 1022730 | 25.0 |
| Benzene, pentamet... | 15.07 | 28.4    | ug/L  | 1163260   | 3                     | 13.55 | 1022730 | 25.0 |
| unknown-01           | 15.32 | 131.2   | ug/L  | 5366780   | 3                     | 13.55 | 1022730 | 25.0 |
| Benzo[b]thiophene    | 15.47 | 204.8   | ug/L  | 8379070   | 3                     | 13.55 | 1022730 | 25.0 |
| (DEL) Alkane: Str... | 15.55 | 391.4   | ug/L  | 16014100  | 3                     | 13.55 | 1022730 | 25.0 |
| 1H-Indene, 2,3-di... | 15.66 | 138.0   | ug/L  | 5646120   | 3                     | 13.55 | 1022730 | 25.0 |
| 1H-Indene, 1,3-di... | 15.85 | 118.0   | ug/L  | 4826580   | 3                     | 13.55 | 1022730 | 25.0 |
| Benzo[b]thiophene... | 16.38 | 163.4   | ug/L  | 6686490   | 3                     | 13.55 | 1022730 | 25.0 |
| Bicyclo[4.4.1]und... | 16.46 | 8107.0  | ug/L  | 331652000 | 3                     | 13.55 | 1022730 | 25.0 |
| Benzocycloheptatr... | 16.66 | 3811.6  | ug/L  | 155928000 | 3                     | 13.55 | 1022730 | 25.0 |