

Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW011121\  
 Data File : VW017814.D  
 Acq On : 11 Jan 2021 13:17  
 Operator : SY/VA  
 Sample : M1074-02  
 Misc : 6.54G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BFT41

## 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\SOM2WLM122420S.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       | 36            | 41          | 46           | rBV      | 4076           | 9163          | 0.81%           | 0.108%        |
| 2         | 2.355       | 68            | 74          | 84           | rVB      | 112850         | 204596        | 18.06%          | 2.419%        |
| 3         | 2.629       | 115           | 119         | 126          | rBV3     | 4534           | 10356         | 0.91%           | 0.122%        |
| 4         | 2.892       | 154           | 162         | 175          | rBV      | 80497          | 187187        | 16.52%          | 2.214%        |
| 5         | 3.373       | 236           | 241         | 242          | rBV2     | 957            | 1148          | 0.10%           | 0.014%        |
| 6         | 3.391       | 242           | 244         | 246          | rBV3     | 1090           | 874           | 0.08%           | 0.010%        |
| 7         | 3.489       | 257           | 260         | 262          | rBV3     | 732            | 805           | 0.07%           | 0.010%        |
| 8         | 3.513       | 262           | 264         | 265          | rBV2     | 595            | 609           | 0.05%           | 0.007%        |
| 9         | 3.855       | 316           | 320         | 322          | rBV2     | 519            | 779           | 0.07%           | 0.009%        |
| 10        | 4.019       | 334           | 347         | 361          | rBV2     | 139742         | 425011        | 37.52%          | 5.026%        |
| 11        | 4.391       | 400           | 408         | 420          | rVV4     | 2768           | 8709          | 0.77%           | 0.103%        |
| 12        | 4.574       | 435           | 438         | 440          | rBV4     | 674            | 983           | 0.09%           | 0.012%        |
| 13        | 4.916       | 481           | 494         | 508          | rBV3     | 12175          | 43419         | 3.83%           | 0.513%        |
| 14        | 5.129       | 520           | 529         | 531          | rBV4     | 2226           | 5805          | 0.51%           | 0.069%        |
| 15        | 5.531       | 592           | 595         | 600          | rBV4     | 514            | 842           | 0.07%           | 0.010%        |
| 16        | 5.732       | 625           | 628         | 632          | rBV4     | 406            | 673           | 0.06%           | 0.008%        |
| 17        | 5.952       | 652           | 664         | 670          | rVV5     | 2641           | 8436          | 0.74%           | 0.100%        |
| 18        | 6.013       | 672           | 674         | 676          | rVB3     | 712            | 603           | 0.05%           | 0.007%        |
| 19        | 6.623       | 770           | 774         | 778          | rBV4     | 605            | 976           | 0.09%           | 0.012%        |
| 20        | 6.684       | 778           | 784         | 785          | rBV2     | 381            | 692           | 0.06%           | 0.008%        |
| 21        | 6.909       | 817           | 821         | 826          | rVB4     | 478            | 870           | 0.08%           | 0.010%        |
| 22        | 7.080       | 840           | 849         | 853          | rBV      | 25245          | 66429         | 5.86%           | 0.786%        |
| 23        | 7.379       | 897           | 898         | 902          | rVB3     | 668            | 622           | 0.05%           | 0.007%        |
| 24        | 7.531       | 920           | 923         | 924          | rBV3     | 840            | 1100          | 0.10%           | 0.013%        |
| 25        | 7.647       | 932           | 942         | 953          | rBV      | 196719         | 478412        | 42.23%          | 5.657%        |
| 26        | 7.946       | 987           | 991         | 992          | rBV2     | 601            | 733           | 0.06%           | 0.009%        |
| 27        | 8.275       | 1035          | 1045        | 1060         | rBV2     | 389053         | 1132754       | 100.00%         | 13.395%       |
| 28        | 8.494       | 1077          | 1081        | 1085         | rVB4     | 439            | 805           | 0.07%           | 0.010%        |
| 29        | 8.689       | 1108          | 1113        | 1115         | rBV4     | 780            | 1186          | 0.10%           | 0.014%        |
| 30        | 8.842       | 1128          | 1138        | 1148         | rVV      | 347899         | 675731        | 59.65%          | 7.991%        |
| 31        | 9.031       | 1163          | 1169        | 1175         | rBV3     | 4430           | 10036         | 0.89%           | 0.119%        |
| 32        | 9.177       | 1190          | 1193        | 1195         | rBV2     | 631            | 602           | 0.05%           | 0.007%        |
| 33        | 9.275       | 1201          | 1209        | 1219         | rBV      | 256256         | 511039        | 45.11%          | 6.043%        |
| 34        | 9.512       | 1244          | 1248        | 1249         | rBV      | 497            | 613           | 0.05%           | 0.007%        |

Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW011121\  
 Data File : VW017814.D  
 Acq On : 11 Jan 2021 13:17  
 Operator : SY/VA  
 Sample : M1074-02  
 Misc : 6.54G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BFT41

## 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\SOM2WLM122420S.M  
 Title : VOC Analysis

|    |        |      |      |      |      |        |        |        |         |
|----|--------|------|------|------|------|--------|--------|--------|---------|
| 35 | 9.524  | 1249 | 1250 | 1254 | rVV3 | 476    | 609    | 0.05%  | 0.007%  |
| 36 | 9.768  | 1286 | 1290 | 1292 | rBV3 | 901    | 1293   | 0.11%  | 0.015%  |
| 37 | 9.848  | 1301 | 1303 | 1308 | rVB4 | 656    | 835    | 0.07%  | 0.010%  |
| 38 | 10.037 | 1326 | 1334 | 1341 | rBV  | 143615 | 256298 | 22.63% | 3.031%  |
| 39 | 10.128 | 1347 | 1349 | 1352 | rVB3 | 678    | 834    | 0.07%  | 0.010%  |
| 40 | 10.207 | 1358 | 1362 | 1368 | rBV6 | 1185   | 2331   | 0.21%  | 0.028%  |
| 41 | 10.262 | 1368 | 1371 | 1372 | rVB3 | 832    | 576    | 0.05%  | 0.007%  |
| 42 | 10.323 | 1373 | 1381 | 1389 | rBV  | 507910 | 890868 | 78.65% | 10.535% |
| 43 | 10.463 | 1401 | 1404 | 1407 | rBV4 | 988    | 1245   | 0.11%  | 0.015%  |
| 44 | 10.494 | 1407 | 1409 | 1415 | rVB6 | 756    | 1206   | 0.11%  | 0.014%  |
| 45 | 10.579 | 1415 | 1423 | 1431 | rBV  | 90209  | 154622 | 13.65% | 1.828%  |
| 46 | 10.640 | 1431 | 1433 | 1438 | rVB4 | 877    | 1144   | 0.10%  | 0.014%  |
| 47 | 10.701 | 1438 | 1443 | 1450 | rBV2 | 8853   | 17478  | 1.54%  | 0.207%  |
| 48 | 10.841 | 1462 | 1466 | 1471 | rVV7 | 1420   | 2949   | 0.26%  | 0.035%  |
| 49 | 10.927 | 1473 | 1480 | 1497 | rVV  | 87246  | 169216 | 14.94% | 2.001%  |
| 50 | 11.067 | 1498 | 1503 | 1512 | rVV4 | 7817   | 16084  | 1.42%  | 0.190%  |
| 51 | 11.177 | 1517 | 1521 | 1528 | rVB3 | 2419   | 3369   | 0.30%  | 0.040%  |
| 52 | 11.402 | 1556 | 1558 | 1560 | rVV  | 1329   | 1598   | 0.14%  | 0.019%  |
| 53 | 11.439 | 1560 | 1564 | 1571 | rVB3 | 5450   | 9312   | 0.82%  | 0.110%  |
| 54 | 11.628 | 1587 | 1595 | 1604 | rBV  | 423538 | 735415 | 64.92% | 8.696%  |
| 55 | 11.725 | 1608 | 1611 | 1615 | rVB4 | 1028   | 1328   | 0.12%  | 0.016%  |
| 56 | 11.841 | 1626 | 1630 | 1631 | rBV3 | 1146   | 1498   | 0.13%  | 0.018%  |
| 57 | 11.878 | 1634 | 1636 | 1638 | rVB3 | 916    | 832    | 0.07%  | 0.010%  |
| 58 | 12.012 | 1655 | 1658 | 1659 | rBV3 | 837    | 710    | 0.06%  | 0.008%  |
| 59 | 12.030 | 1659 | 1661 | 1665 | rVV3 | 516    | 789    | 0.07%  | 0.009%  |
| 60 | 12.164 | 1678 | 1683 | 1690 | rVB8 | 1477   | 3234   | 0.29%  | 0.038%  |
| 61 | 12.237 | 1692 | 1695 | 1700 | rVB4 | 1205   | 1748   | 0.15%  | 0.021%  |
| 62 | 12.335 | 1707 | 1711 | 1712 | rBV2 | 827    | 999    | 0.09%  | 0.012%  |
| 63 | 12.469 | 1727 | 1733 | 1742 | rVB2 | 24851  | 42405  | 3.74%  | 0.501%  |
| 64 | 12.609 | 1747 | 1756 | 1762 | rVB3 | 18880  | 36580  | 3.23%  | 0.433%  |
| 65 | 12.695 | 1762 | 1770 | 1777 | rBV  | 161668 | 283187 | 25.00% | 3.349%  |
| 66 | 12.756 | 1777 | 1780 | 1784 | rVB5 | 2157   | 3191   | 0.28%  | 0.038%  |
| 67 | 12.878 | 1794 | 1800 | 1801 | rBV3 | 1410   | 2473   | 0.22%  | 0.029%  |
| 68 | 12.896 | 1801 | 1803 | 1806 | rVV3 | 2083   | 2830   | 0.25%  | 0.033%  |
| 69 | 12.969 | 1806 | 1815 | 1819 | rVV7 | 5642   | 15153  | 1.34%  | 0.179%  |
| 70 | 13.024 | 1819 | 1824 | 1830 | rVV3 | 6825   | 12892  | 1.14%  | 0.152%  |
| 71 | 13.085 | 1830 | 1834 | 1837 | rVV3 | 1752   | 3049   | 0.27%  | 0.036%  |

Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW011121\  
 Data File : VW017814.D  
 Acq On : 11 Jan 2021 13:17  
 Operator : SY/VA  
 Sample : M1074-02  
 Misc : 6.54G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BFT41

## 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\SOM2WLM122420S.M  
 Title : VOC Analysis

|     |        |      |      |      |      |        |        |        |        |
|-----|--------|------|------|------|------|--------|--------|--------|--------|
| 72  | 13.219 | 1848 | 1856 | 1857 | rVV5 | 2598   | 4870   | 0.43%  | 0.058% |
| 73  | 13.243 | 1857 | 1860 | 1865 | rVV5 | 4322   | 8563   | 0.76%  | 0.101% |
| 74  | 13.292 | 1865 | 1868 | 1875 | rVB5 | 4039   | 6759   | 0.60%  | 0.080% |
| 75  | 13.365 | 1875 | 1880 | 1882 | rBV4 | 1699   | 2197   | 0.19%  | 0.026% |
| 76  | 13.402 | 1883 | 1886 | 1891 | rVB6 | 2258   | 3842   | 0.34%  | 0.045% |
| 77  | 13.475 | 1891 | 1898 | 1899 | rBV4 | 3291   | 5185   | 0.46%  | 0.061% |
| 78  | 13.499 | 1899 | 1902 | 1905 | rVV3 | 5571   | 8322   | 0.73%  | 0.098% |
| 79  | 13.554 | 1905 | 1911 | 1923 | rVV  | 304239 | 507191 | 44.78% | 5.998% |
| 80  | 13.652 | 1923 | 1927 | 1930 | rVV3 | 4610   | 7411   | 0.65%  | 0.088% |
| 81  | 13.719 | 1934 | 1938 | 1939 | rBV4 | 3190   | 4147   | 0.37%  | 0.049% |
| 82  | 13.755 | 1939 | 1944 | 1946 | rVV2 | 14248  | 24165  | 2.13%  | 0.286% |
| 83  | 13.792 | 1946 | 1950 | 1954 | rVV2 | 17812  | 36343  | 3.21%  | 0.430% |
| 84  | 13.853 | 1954 | 1960 | 1971 | rVV  | 288973 | 486180 | 42.92% | 5.749% |
| 85  | 13.951 | 1971 | 1976 | 1980 | rVV  | 12507  | 19316  | 1.71%  | 0.228% |
| 86  | 14.005 | 1980 | 1985 | 1988 | rVV2 | 25468  | 43673  | 3.86%  | 0.516% |
| 87  | 14.036 | 1988 | 1990 | 1995 | rVV2 | 30178  | 48710  | 4.30%  | 0.576% |
| 88  | 14.097 | 1995 | 2000 | 2007 | rVB  | 68592  | 106959 | 9.44%  | 1.265% |
| 89  | 14.152 | 2007 | 2009 | 2011 | rBV3 | 1398   | 1307   | 0.12%  | 0.015% |
| 90  | 14.200 | 2012 | 2017 | 2022 | rVB2 | 15696  | 25411  | 2.24%  | 0.300% |
| 91  | 14.335 | 2033 | 2039 | 2044 | rBV  | 31531  | 50198  | 4.43%  | 0.594% |
| 92  | 14.420 | 2047 | 2053 | 2055 | rVV  | 70963  | 113314 | 10.00% | 1.340% |
| 93  | 14.457 | 2055 | 2059 | 2064 | rVV  | 118525 | 176487 | 15.58% | 2.087% |
| 94  | 14.499 | 2064 | 2066 | 2069 | rVV3 | 10347  | 12404  | 1.10%  | 0.147% |
| 95  | 14.542 | 2070 | 2073 | 2078 | rVB2 | 7899   | 11747  | 1.04%  | 0.139% |
| 96  | 14.633 | 2086 | 2088 | 2092 | rBV3 | 3071   | 4342   | 0.38%  | 0.051% |
| 97  | 14.688 | 2092 | 2097 | 2100 | rBV  | 24936  | 41879  | 3.70%  | 0.495% |
| 98  | 14.725 | 2101 | 2103 | 2108 | rVB3 | 16509  | 21682  | 1.91%  | 0.256% |
| 99  | 14.792 | 2108 | 2114 | 2121 | rBV2 | 68361  | 166025 | 14.66% | 1.963% |
| 100 | 15.060 | 2155 | 2158 | 2166 | rVB4 | 17792  | 35156  | 3.10%  | 0.416% |

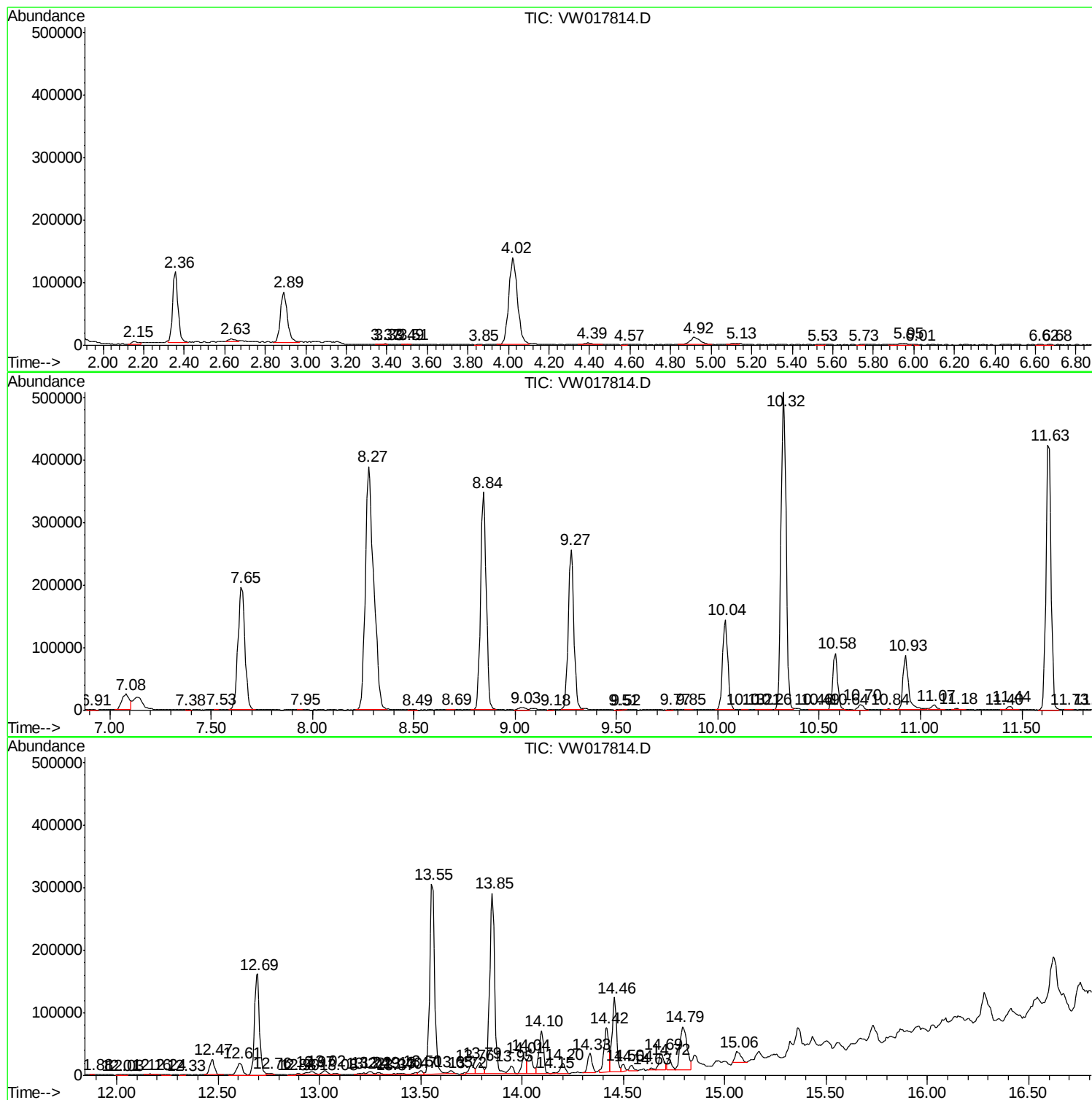
Sum of corrected areas: 8456563

Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW011121\  
Data File : VW017814.D  
Acq On : 11 Jan 2021 13:17  
Operator : SY/VA  
Sample : M1074-02  
Misc : 6.54G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BFT41

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM122420S.M  
Quant Title : VOC Analysis

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW011121\  
Data File : VW017814.D  
Acq On : 11 Jan 2021 13:17  
Operator : SY/VA  
Sample : M1074-02  
Misc : 6.54G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BFT41

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM122420S.M  
Quant Title : VOC Analysis

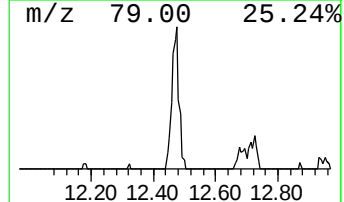
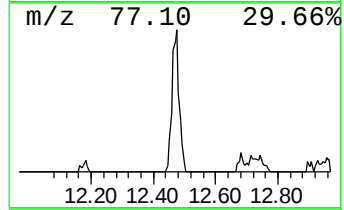
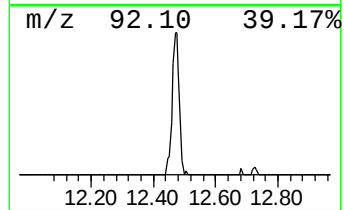
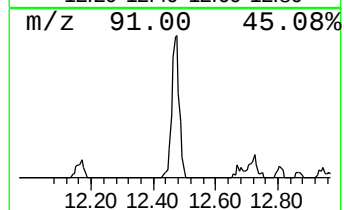
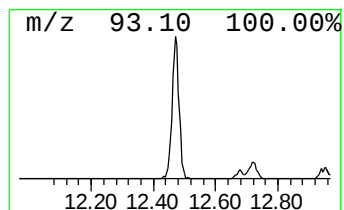
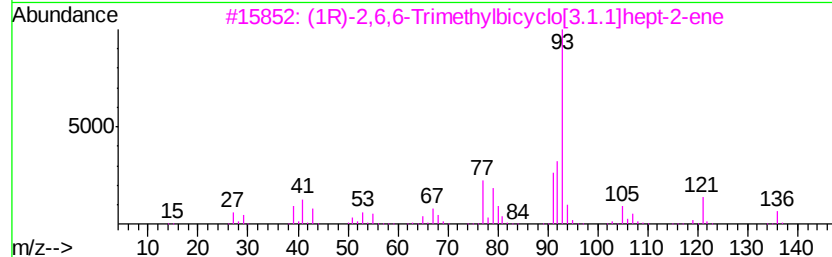
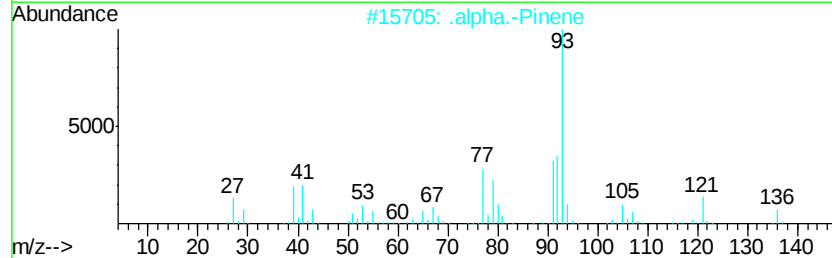
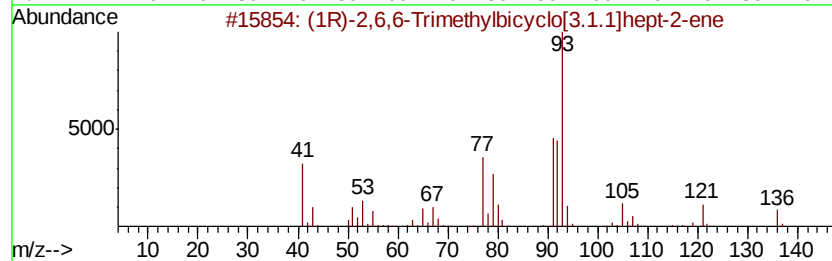
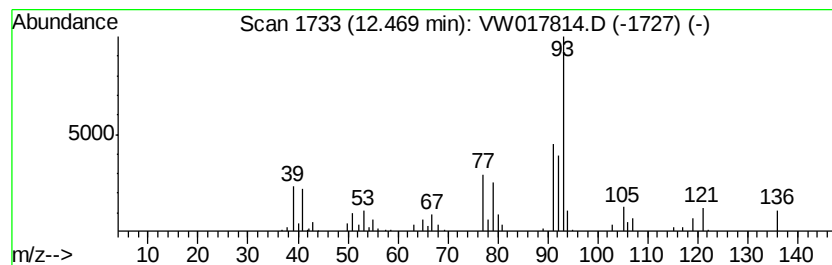
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 (1R)-2,6,6-Trimethylbicyclo... Concentration Rank 13

| R.T.  | EstConc   | Area  | Relative to ISTD | R.T.  |
|-------|-----------|-------|------------------|-------|
| 12.47 | 1.44 ug/L | 42405 | Chlorobenzene-d5 | 11.63 |

| Hit# | of | Tentative ID                                 | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------------------------|-----|---------|-------------|------|
| 1    | 5  | (1R)-2,6,6-Trimethylbicyclo[3.1.1]hept-2-ene | 136 | C10H16  | 007785-70-8 | 97   |
| 2    |    | .alpha.-Pinene                               | 136 | C10H16  | 000080-56-8 | 95   |
| 3    |    | (1R)-2,6,6-Trimethylbicyclo[3.1.1]hept-2-ene | 136 | C10H16  | 007785-70-8 | 91   |
| 4    |    | .alpha.-Pinene                               | 136 | C10H16  | 000080-56-8 | 91   |
| 5    |    | .alpha.-Pinene                               | 136 | C10H16  | 000080-56-8 | 91   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW011121\  
Data File : VW017814.D  
Acq On : 11 Jan 2021 13:17  
Operator : SY/VA  
Sample : M1074-02  
Misc : 6.54G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BFT41

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM122420S.M  
Quant Title : VOC Analysis

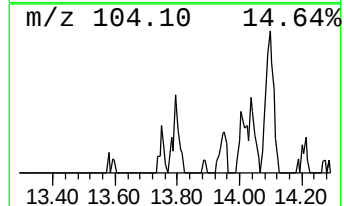
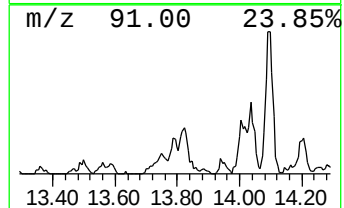
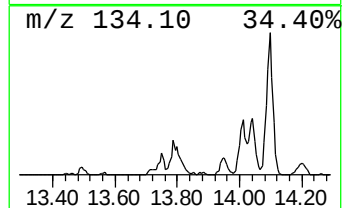
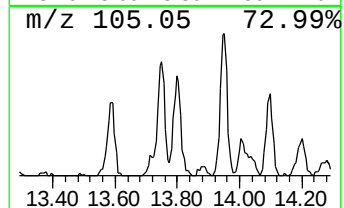
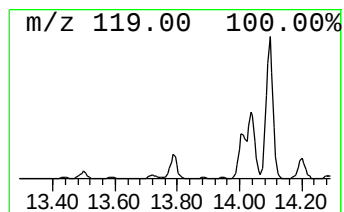
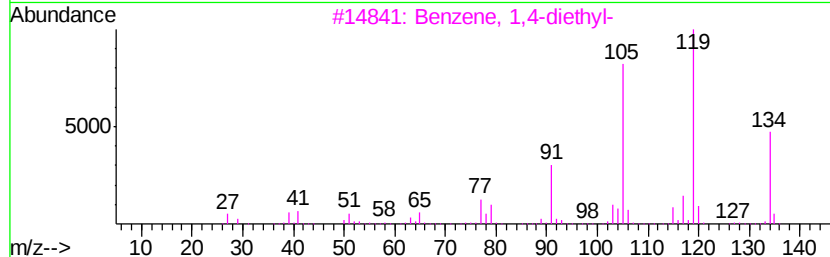
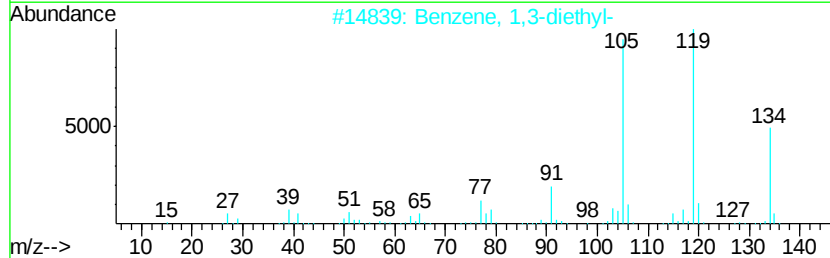
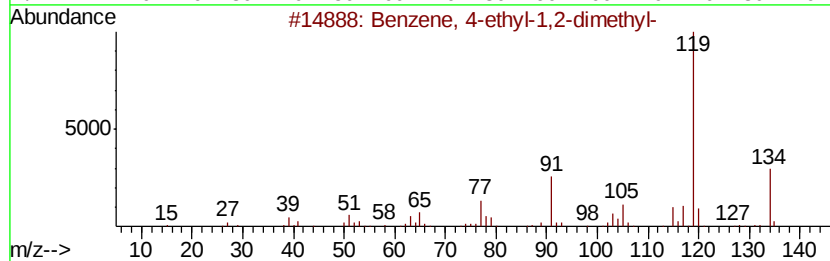
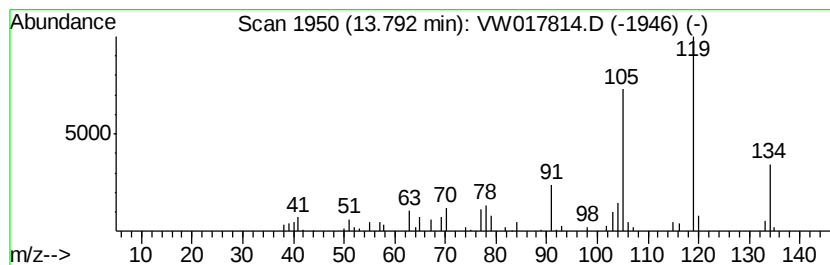
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 Benzene, 4-ethyl-1,2-dimethyl- Concentration Rank 11

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 13.79 | 1.79 ug/L | 36343 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 4-ethyl-1,2-dimethyl- | 134 | C10H14  | 000934-80-5 | 83   |
| 2    |    | Benzene, 1,3-diethyl-          | 134 | C10H14  | 000141-93-5 | 80   |
| 3    |    | Benzene, 1,4-diethyl-          | 134 | C10H14  | 000105-05-5 | 80   |
| 4    |    | Benzene, 1-ethyl-3,5-dimethyl- | 134 | C10H14  | 000934-74-7 | 72   |
| 5    |    | Benzene, 1,2-diethyl-          | 134 | C10H14  | 000135-01-3 | 72   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW011121\  
Data File : VW017814.D  
Acq On : 11 Jan 2021 13:17  
Operator : SY/VA  
Sample : M1074-02  
Misc : 6.54G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BFT41

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM122420S.M  
Quant Title : VOC Analysis

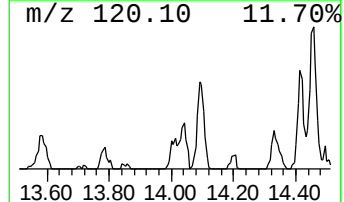
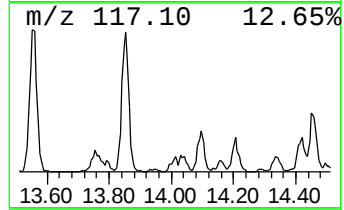
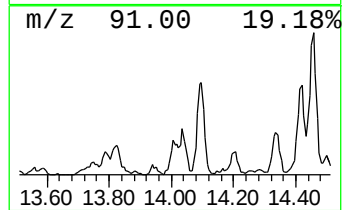
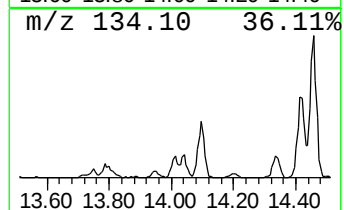
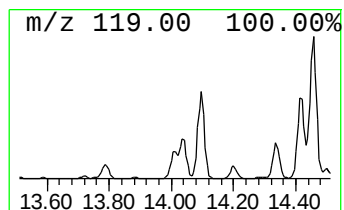
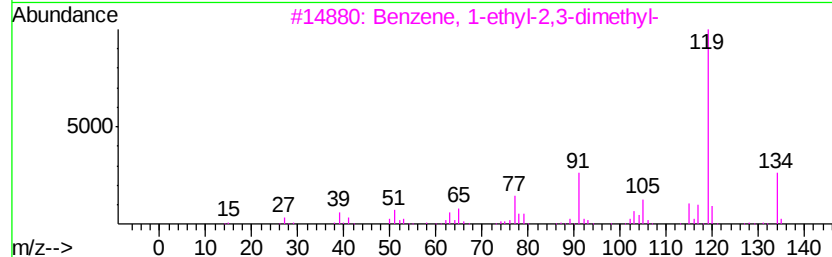
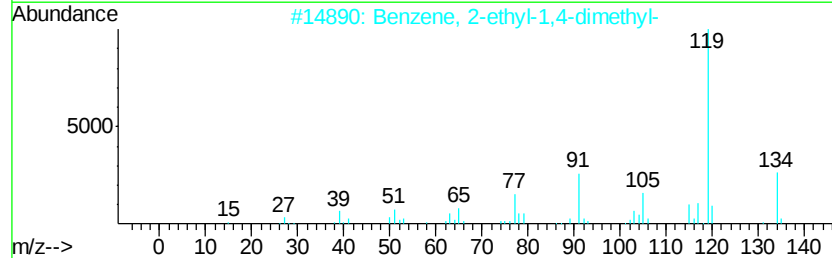
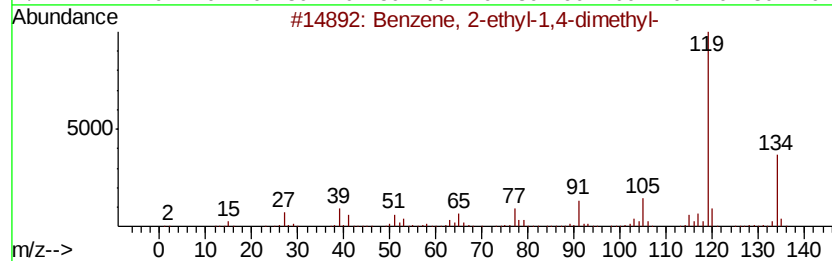
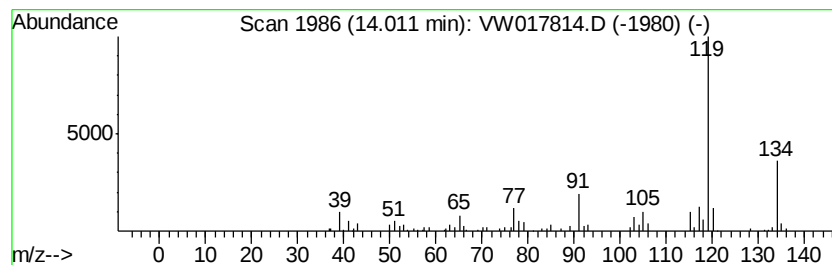
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 Benzene, 2-ethyl-1,4-dimethyl- Concentration Rank 8

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 14.01 | 2.15 ug/L | 43673 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# of | 5 | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|---------|---|--------------------------------|-----|---------|-------------|------|
| 1       |   | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14  | 001758-88-9 | 95   |
| 2       |   | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14  | 001758-88-9 | 95   |
| 3       |   | Benzene, 1-ethyl-2,3-dimethyl- | 134 | C10H14  | 000933-98-2 | 95   |
| 4       |   | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14  | 001758-88-9 | 94   |
| 5       |   | Benzene, 1-ethyl-2,3-dimethyl- | 134 | C10H14  | 000933-98-2 | 94   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW011121\  
Data File : VW017814.D  
Acq On : 11 Jan 2021 13:17  
Operator : SY/VA  
Sample : M1074-02  
Misc : 6.54G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BFT41

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM122420S.M  
Quant Title : VOC Analysis

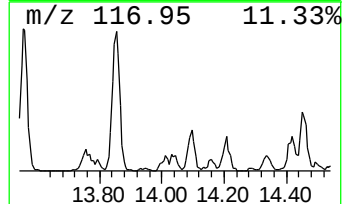
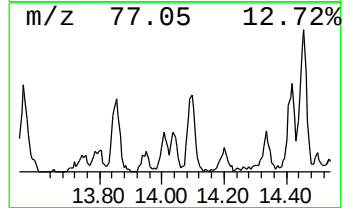
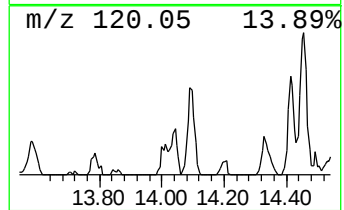
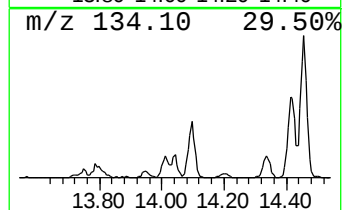
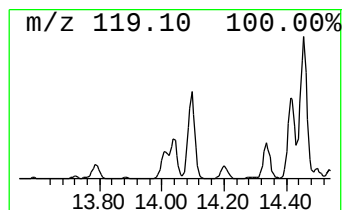
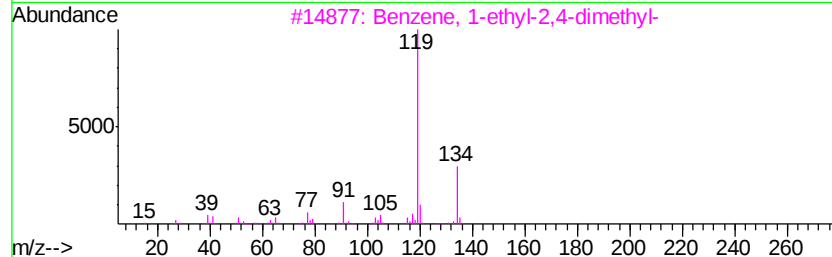
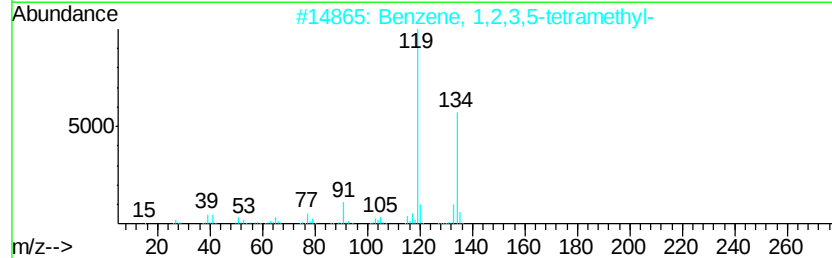
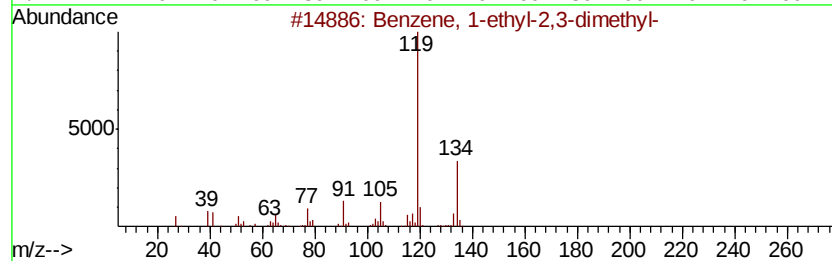
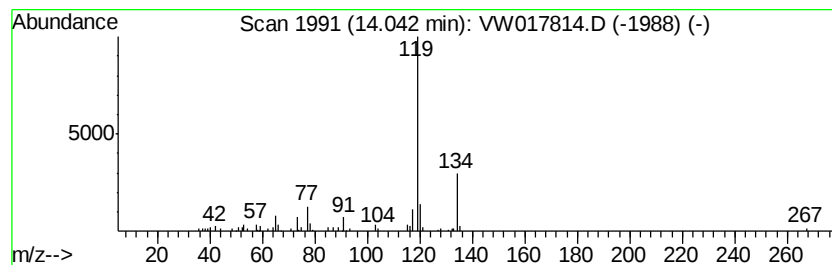
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 6 Benzene, 1-ethyl-2,3-dimethyl- Concentration Rank 7

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 14.04 | 2.40 ug/L | 48710 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# of | 5                              | Tentative ID | MW     | MolForm     | CAS# | Qual |
|---------|--------------------------------|--------------|--------|-------------|------|------|
| 1       | Benzene, 1-ethyl-2,3-dimethyl- | 134          | C10H14 | 000933-98-2 | 87   |      |
| 2       | Benzene, 1,2,3,5-tetramethyl-  | 134          | C10H14 | 000527-53-7 | 87   |      |
| 3       | Benzene, 1-ethyl-2,4-dimethyl- | 134          | C10H14 | 000874-41-9 | 87   |      |
| 4       | Benzene, 1-ethyl-2,4-dimethyl- | 134          | C10H14 | 000874-41-9 | 87   |      |
| 5       | Benzene, 1,2,3,5-tetramethyl-  | 134          | C10H14 | 000527-53-7 | 86   |      |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW011121\  
Data File : VW017814.D  
Acq On : 11 Jan 2021 13:17  
Operator : SY/VA  
Sample : M1074-02  
Misc : 6.54G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BFT41

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM122420S.M  
Quant Title : VOC Analysis

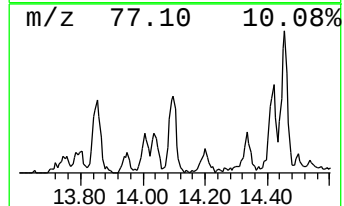
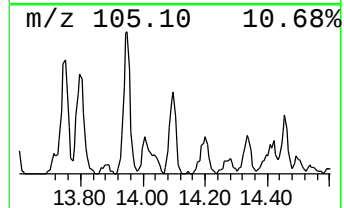
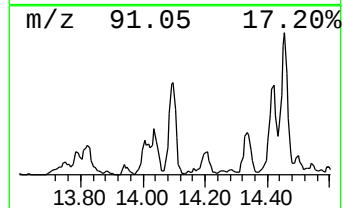
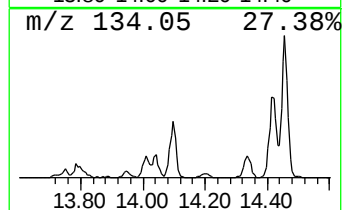
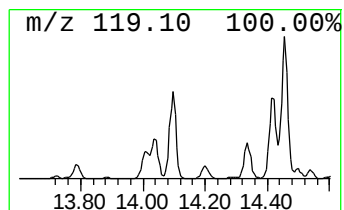
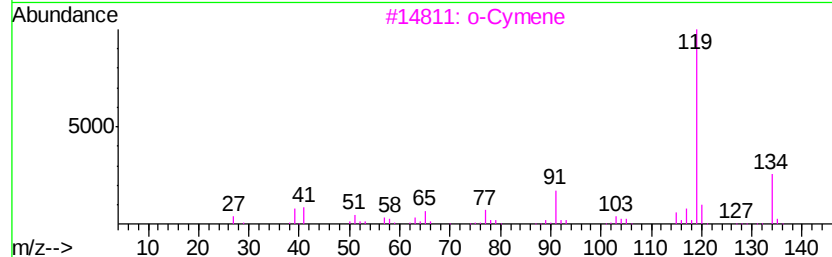
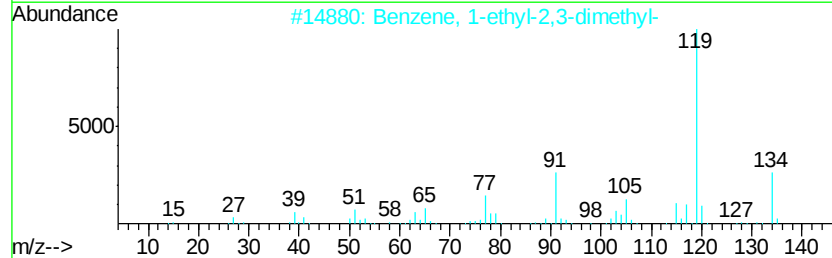
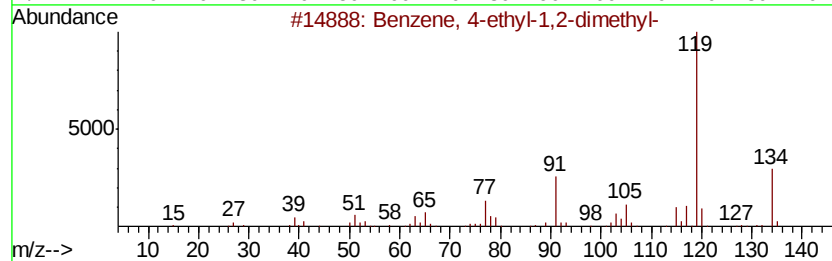
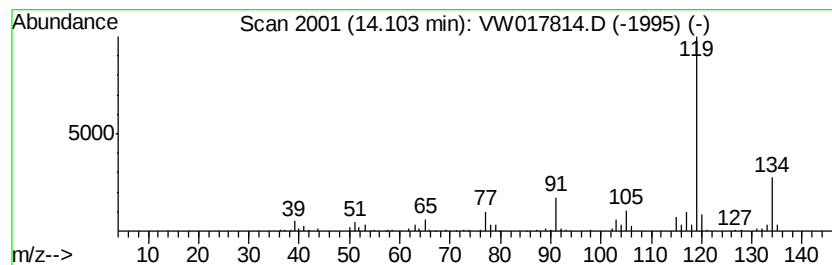
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 7 o-Cymene Concentration Rank 5

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 14.10 | 5.27 ug/L | 106959 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 4-ethyl-1,2-dimethyl-      | 134 | C10H14  | 000934-80-5 | 95   |
| 2    |    | Benzene, 1-ethyl-2,3-dimethyl-      | 134 | C10H14  | 000933-98-2 | 95   |
| 3    |    | o-Cymene                            | 134 | C10H14  | 000527-84-4 | 94   |
| 4    |    | Benzene, 2-ethyl-1,3-dimethyl-      | 134 | C10H14  | 002870-04-4 | 94   |
| 5    |    | Benzene, 1-methyl-3-(1-methyleth... | 134 | C10H14  | 000535-77-3 | 93   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW011121\  
Data File : VW017814.D  
Acq On : 11 Jan 2021 13:17  
Operator : SY/VA  
Sample : M1074-02  
Misc : 6.54G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BFT41

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM122420S.M  
Quant Title : VOC Analysis

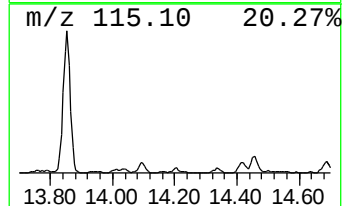
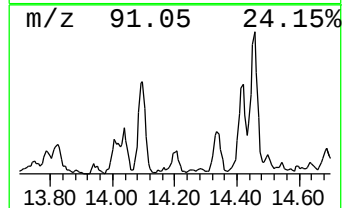
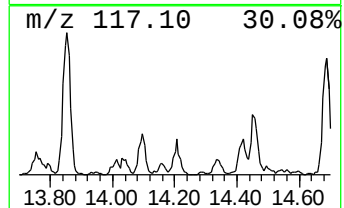
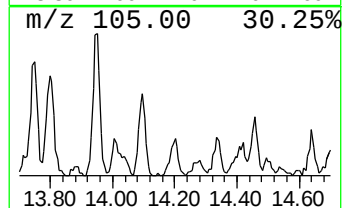
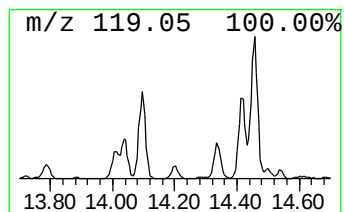
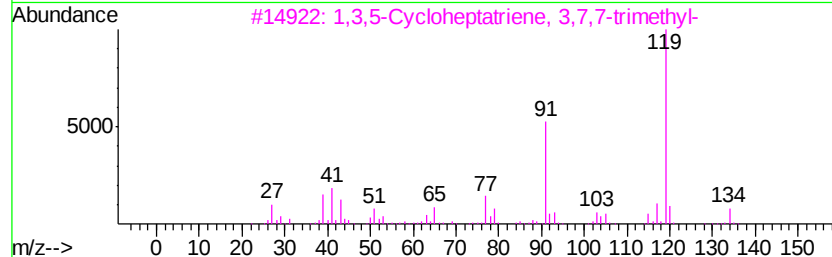
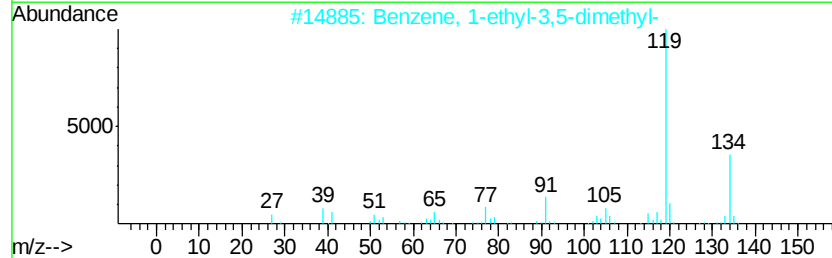
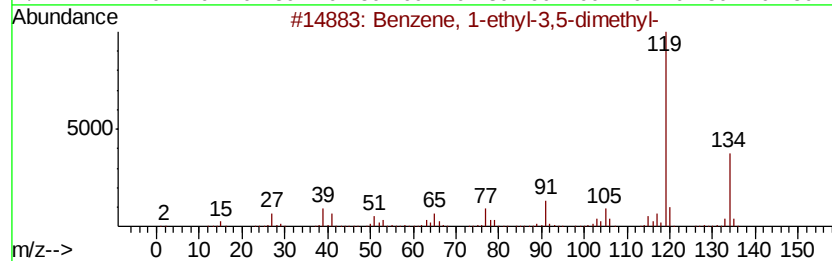
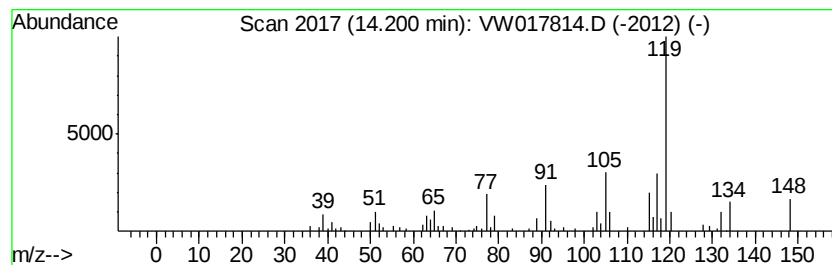
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 8 Benzene, 1-ethyl-3,5-dimethyl- Concentration Rank 14

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 14.20 | 1.25 ug/L | 25411 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1-ethyl-3,5-dimethyl-      | 134 | C10H14  | 000934-74-7 | 58   |
| 2    |    | Benzene, 1-ethyl-3,5-dimethyl-      | 134 | C10H14  | 000934-74-7 | 58   |
| 3    |    | 1,3,5-Cycloheptatriene, 3,7,7-tr... | 134 | C10H14  | 003479-89-8 | 52   |
| 4    |    | Benzene, 1-ethyl-2,3-dimethyl-      | 134 | C10H14  | 000933-98-2 | 52   |
| 5    |    | Benzene, 4-ethyl-1,2-dimethyl-      | 134 | C10H14  | 000934-80-5 | 50   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW011121\  
Data File : VW017814.D  
Acq On : 11 Jan 2021 13:17  
Operator : SY/VA  
Sample : M1074-02  
Misc : 6.54G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BFT41

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM122420S.M  
Quant Title : VOC Analysis

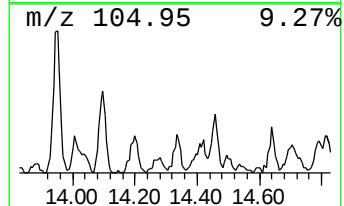
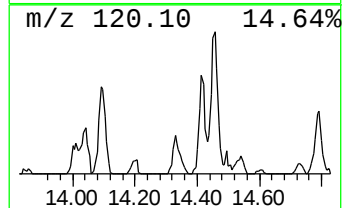
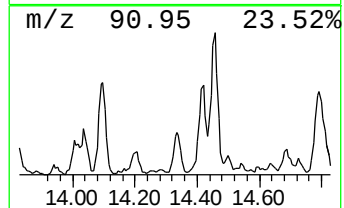
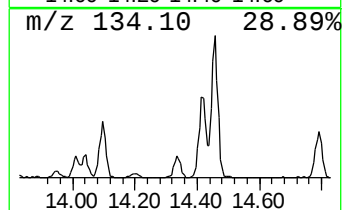
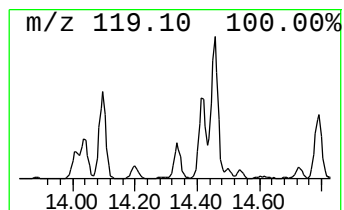
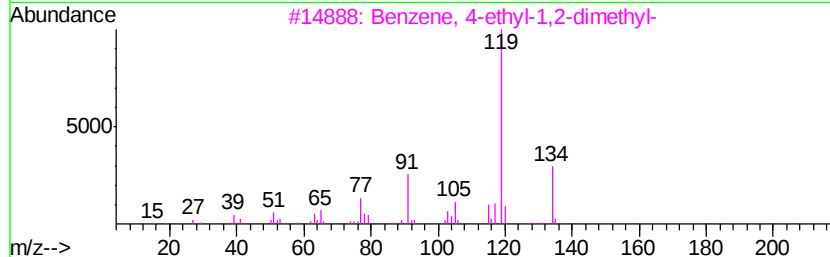
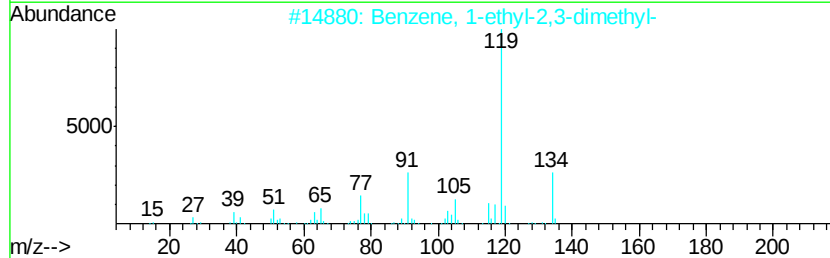
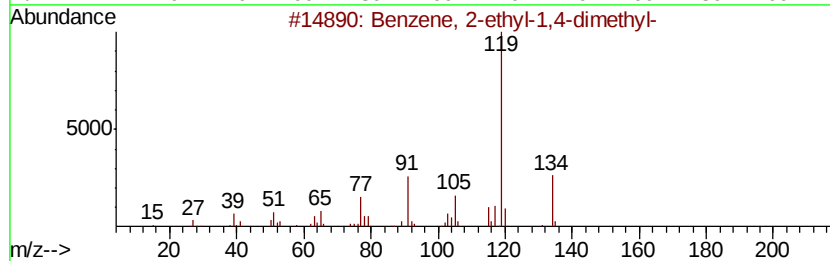
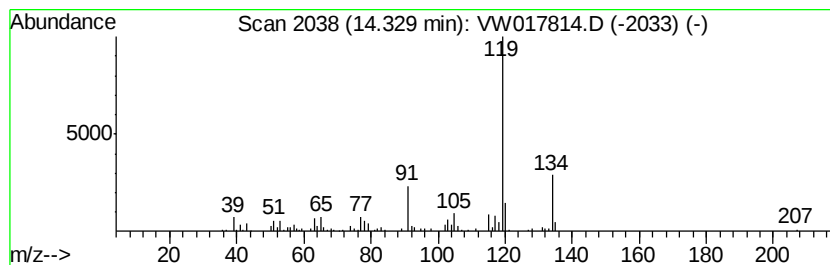
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 9 unknown-01 Concentration Rank 6

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 14.33 | 2.47 ug/L | 50198 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14  | 001758-88-9 | 96   |
| 2    |    | Benzene, 1-ethyl-2,3-dimethyl- | 134 | C10H14  | 000933-98-2 | 96   |
| 3    |    | Benzene, 4-ethyl-1,2-dimethyl- | 134 | C10H14  | 000934-80-5 | 96   |
| 4    |    | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14  | 001758-88-9 | 94   |
| 5    |    | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14  | 001758-88-9 | 94   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW011121\  
Data File : VW017814.D  
Acq On : 11 Jan 2021 13:17  
Operator : SY/VA  
Sample : M1074-02  
Misc : 6.54G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BFT41

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM122420S.M  
Quant Title : VOC Analysis

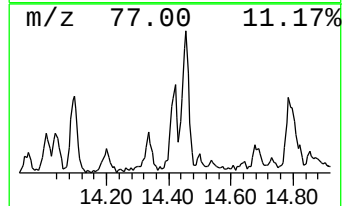
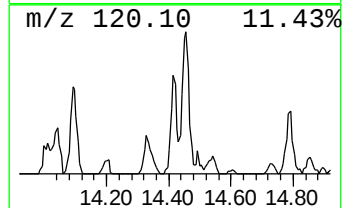
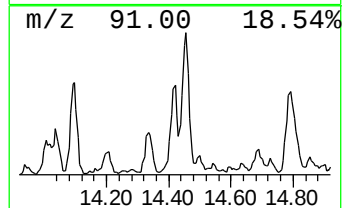
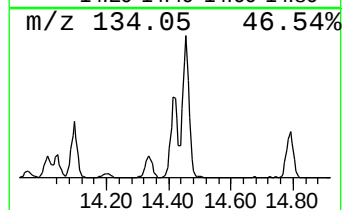
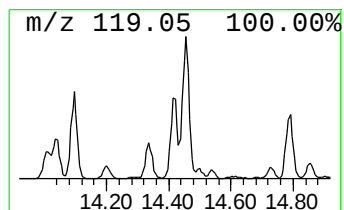
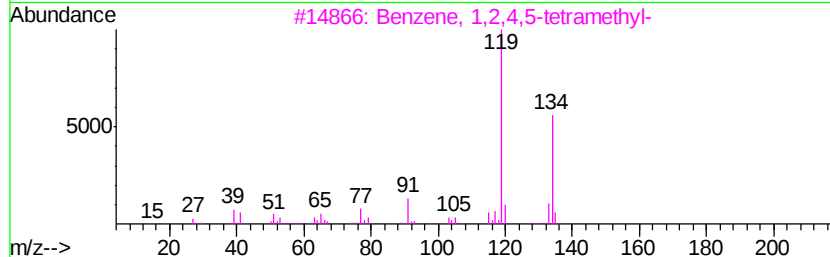
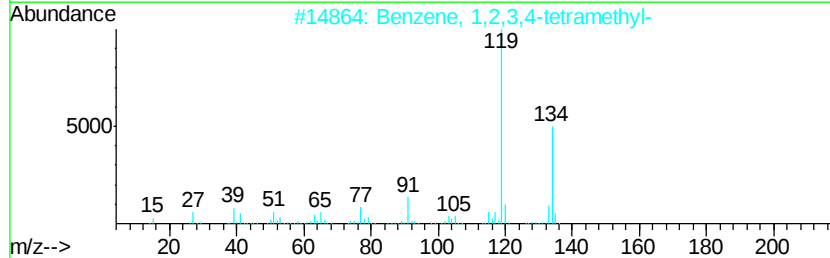
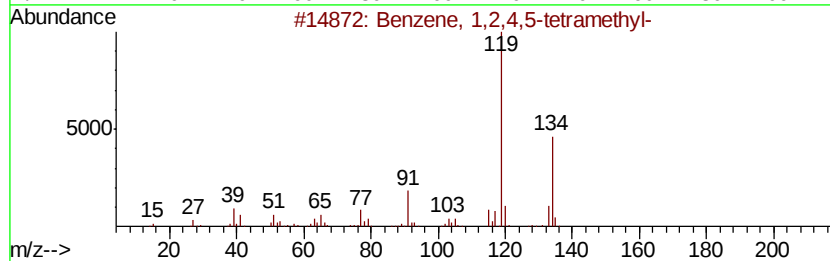
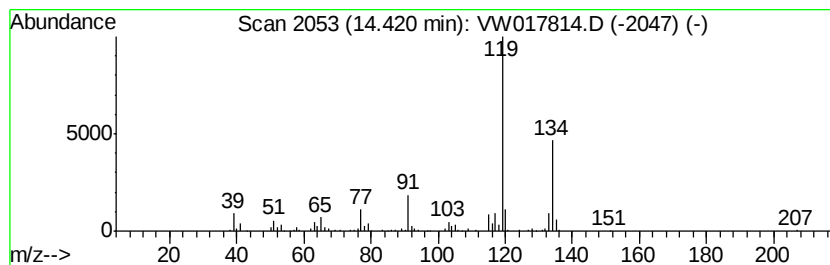
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 10 Benzene, 1,2,4,5-tetramethyl- Concentration Rank 4

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 14.42 | 5.59 ug/L | 113314 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID                  | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1,2,4,5-tetramethyl- | 134 | C10H14  | 000095-93-2 | 97   |
| 2    |    | Benzene, 1,2,3,4-tetramethyl- | 134 | C10H14  | 000488-23-3 | 95   |
| 3    |    | Benzene, 1,2,4,5-tetramethyl- | 134 | C10H14  | 000095-93-2 | 95   |
| 4    |    | Benzene, 1,2,3,5-tetramethyl- | 134 | C10H14  | 000527-53-7 | 94   |
| 5    |    | Benzene, 1,2,3,4-tetramethyl- | 134 | C10H14  | 000488-23-3 | 94   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW011121\  
Data File : VW017814.D  
Acq On : 11 Jan 2021 13:17  
Operator : SY/VA  
Sample : M1074-02  
Misc : 6.54G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BFT41

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM122420S.M  
Quant Title : VOC Analysis

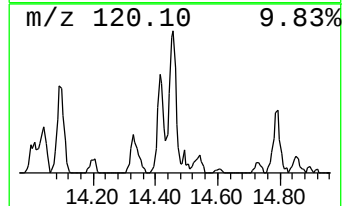
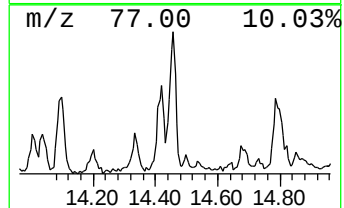
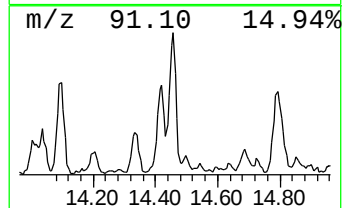
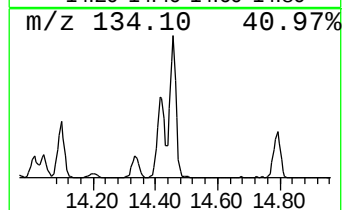
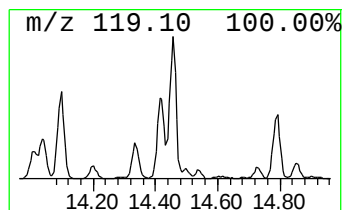
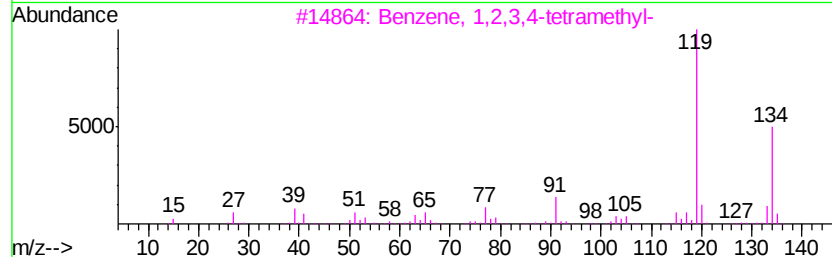
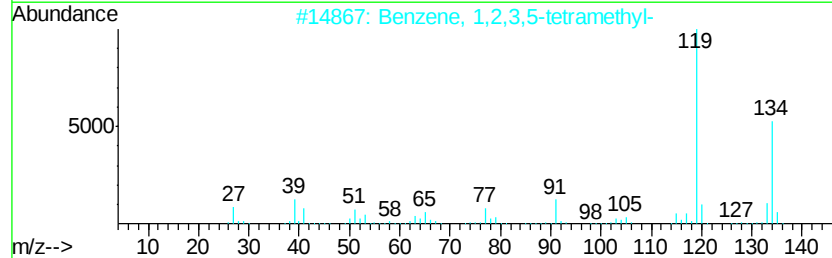
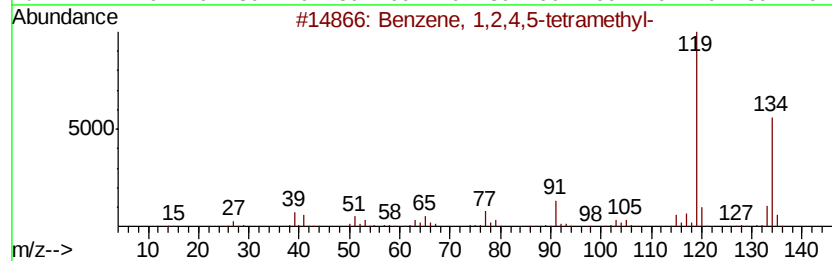
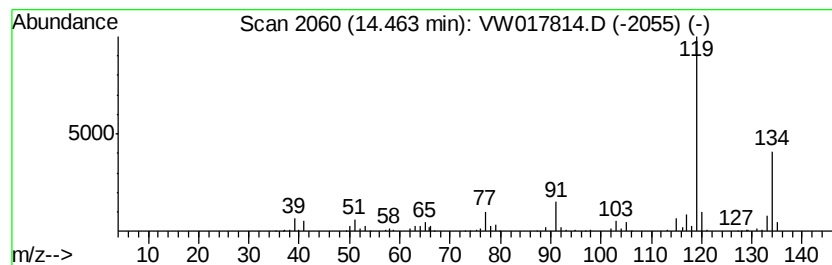
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 11 Benzene, 1,2,3,5-tetramethyl- Concentration Rank 2

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 14.46 | 8.70 ug/L | 176487 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID                  | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1,2,4,5-tetramethyl- | 134 | C10H14  | 000095-93-2 | 95   |
| 2    |    | Benzene, 1,2,3,5-tetramethyl- | 134 | C10H14  | 000527-53-7 | 95   |
| 3    |    | Benzene, 1,2,3,4-tetramethyl- | 134 | C10H14  | 000488-23-3 | 94   |
| 4    |    | Benzene, 1,2,3,5-tetramethyl- | 134 | C10H14  | 000527-53-7 | 94   |
| 5    |    | Benzene, 1,2,3,5-tetramethyl- | 134 | C10H14  | 000527-53-7 | 94   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW011121\  
Data File : VW017814.D  
Acq On : 11 Jan 2021 13:17  
Operator : SY/VA  
Sample : M1074-02  
Misc : 6.54G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BFT41

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM122420S.M  
Quant Title : VOC Analysis

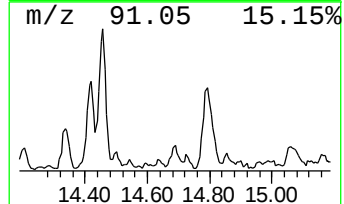
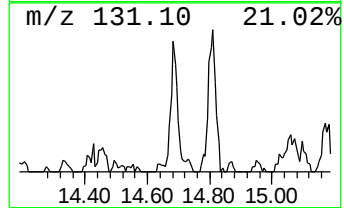
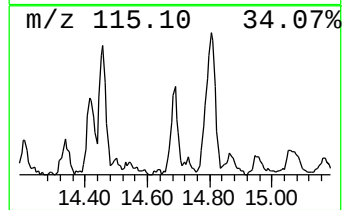
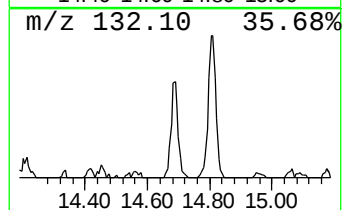
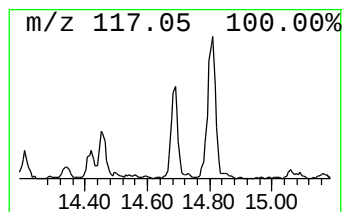
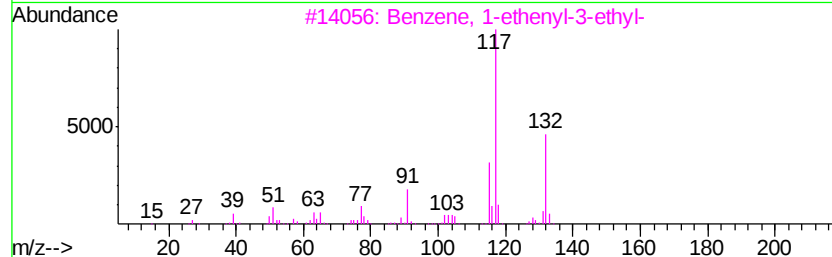
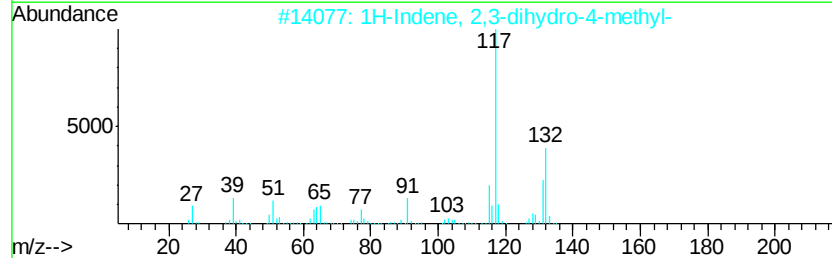
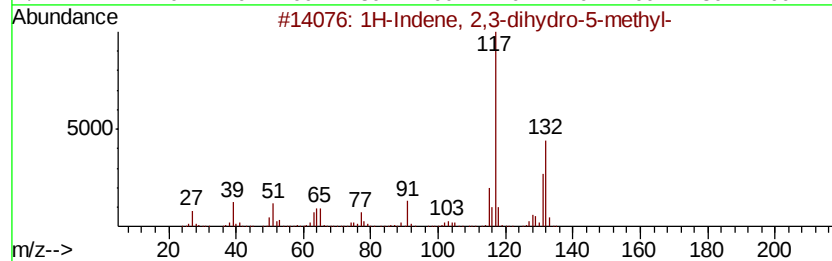
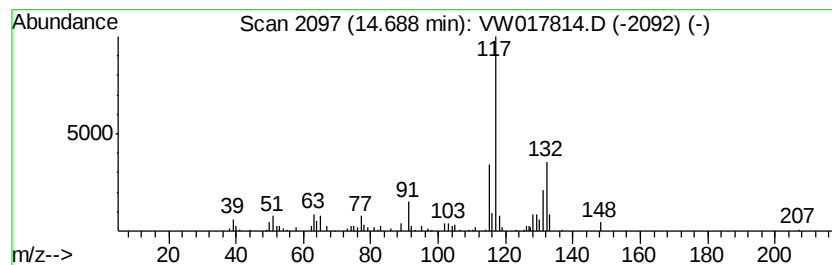
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 12 1H-Indene, 2,3-dihydro-5-me... Concentration Rank 9

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 14.69 | 2.06 ug/L | 41879 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID                      | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------------------|-----|---------|-------------|------|
| 1    | 5  | 1H-Indene, 2,3-dihydro-5-methyl-  | 132 | C10H12  | 000874-35-1 | 87   |
| 2    |    | 1H-Indene, 2,3-dihydro-4-methyl-  | 132 | C10H12  | 000824-22-6 | 83   |
| 3    |    | Benzene, 1-ethenyl-3-ethyl-       | 132 | C10H12  | 007525-62-4 | 81   |
| 4    |    | Benzene, 1-ethenyl-4-ethyl-       | 132 | C10H12  | 003454-07-7 | 81   |
| 5    |    | Benzene, 1-methyl-2-(2-propenyl)- | 132 | C10H12  | 001587-04-8 | 80   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW011121\  
Data File : VW017814.D  
Acq On : 11 Jan 2021 13:17  
Operator : SY/VA  
Sample : M1074-02  
Misc : 6.54G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BFT41

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM122420S.M  
Quant Title : VOC Analysis

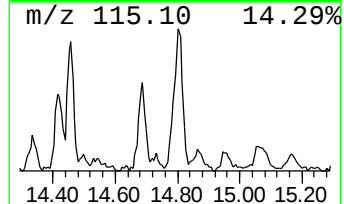
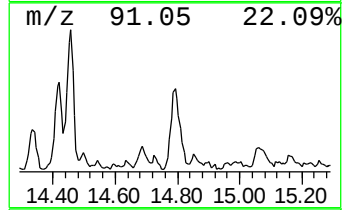
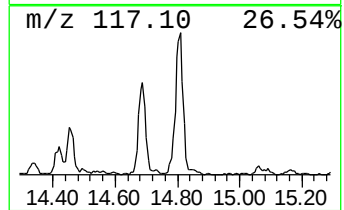
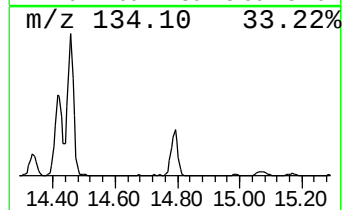
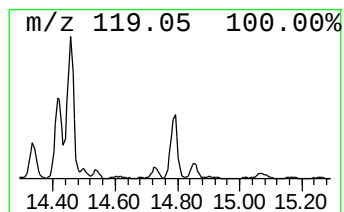
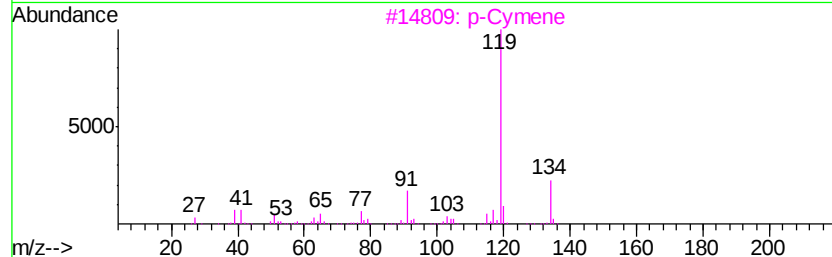
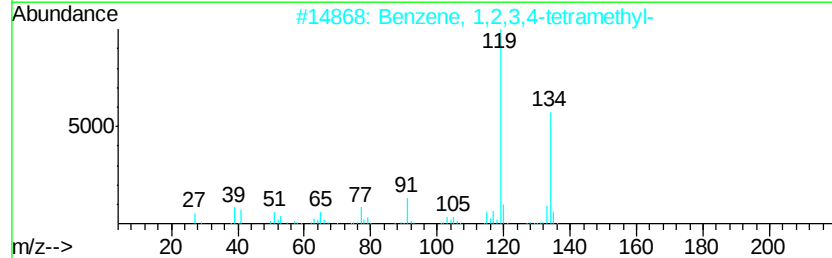
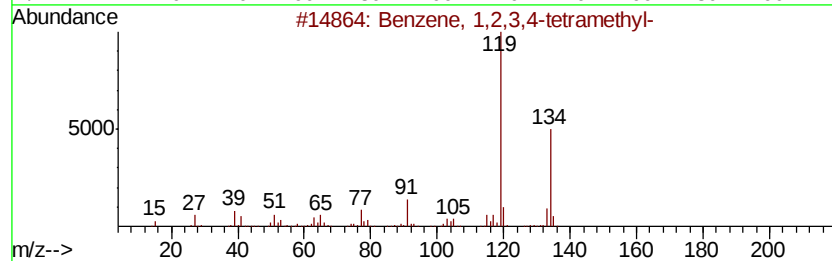
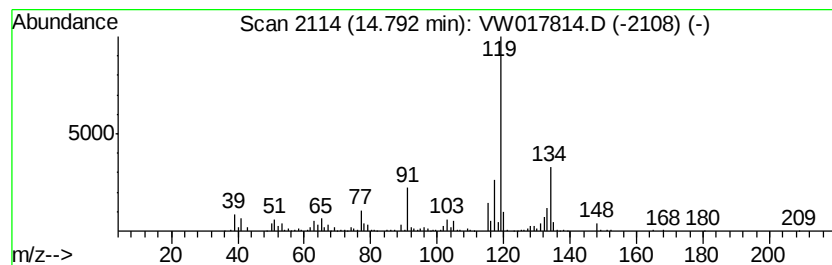
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 13 Benzene, 1,2,3,4-tetramethyl- Concentration Rank 3

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 14.79 | 8.18 ug/L | 166025 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1,2,3,4-tetramethyl-       | 134 | C10H14  | 000488-23-3 | 81   |
| 2    |    | Benzene, 1,2,3,4-tetramethyl-       | 134 | C10H14  | 000488-23-3 | 81   |
| 3    |    | p-Cymene                            | 134 | C10H14  | 000099-87-6 | 76   |
| 4    |    | Benzene, 1,2,4,5-tetramethyl-       | 134 | C10H14  | 000095-93-2 | 76   |
| 5    |    | 1,3-Cyclopentadiene, 1,2,3,4-tet... | 134 | C10H14  | 076089-59-3 | 74   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW011121\  
Data File : VW017814.D  
Acq On : 11 Jan 2021 13:17  
Operator : SY/VA  
Sample : M1074-02  
Misc : 6.54G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BFT41

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM122420S.M  
Quant Title : VOC Analysis

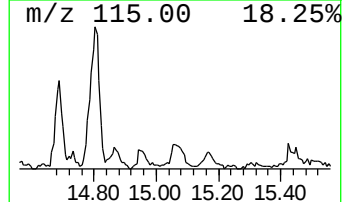
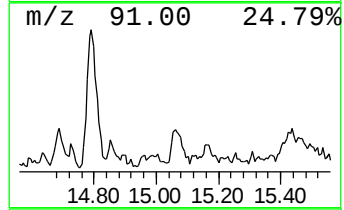
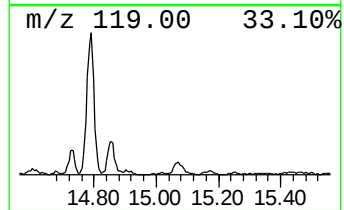
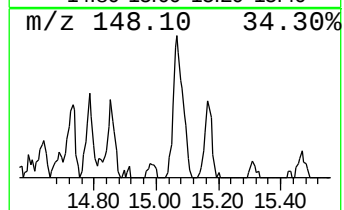
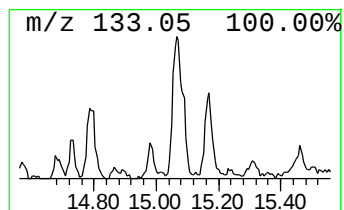
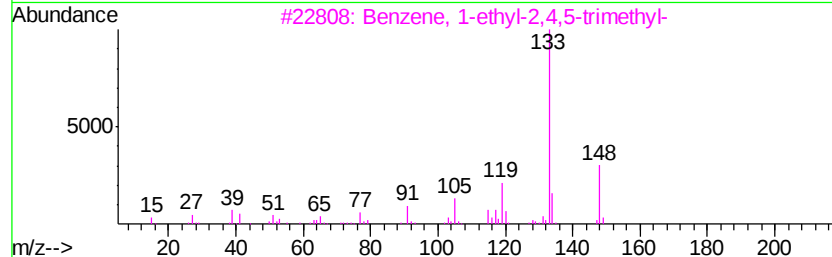
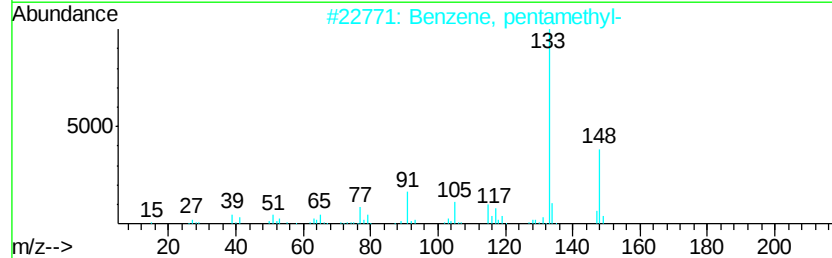
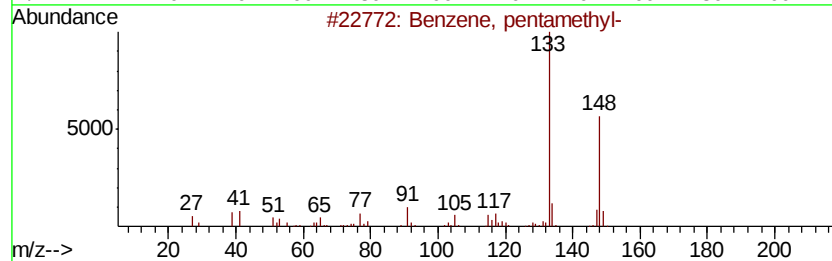
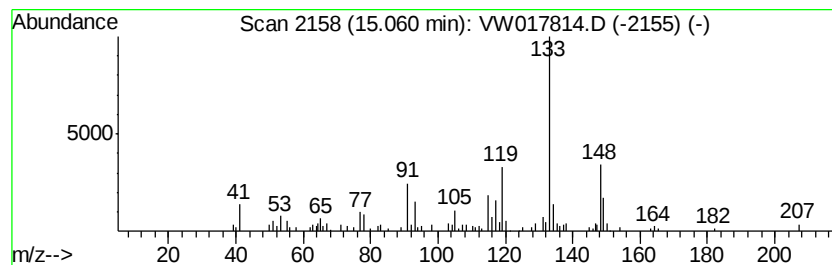
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 14 Benzene, pentamethyl- Concentration Rank 12

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 15.06 | 1.73 ug/L | 35156 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, pentamethyl-               | 148 | C11H16  | 000700-12-9 | 81   |
| 2    |    | Benzene, pentamethyl-               | 148 | C11H16  | 000700-12-9 | 72   |
| 3    |    | Benzene, 1-ethyl-2,4,5-trimethyl-   | 148 | C11H16  | 017851-27-3 | 64   |
| 4    |    | Benzene, 2,4-diethyl-1-methyl-      | 148 | C11H16  | 001758-85-6 | 62   |
| 5    |    | Benzene, 1,4-dimethyl-2-(1-methy... | 148 | C11H16  | 004132-72-3 | 58   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW011121\  
Data File : VW017814.D  
Acq On : 11 Jan 2021 13:17  
Operator : SY/VA  
Sample : M1074-02  
Misc : 6.54G/10ML/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BFT41

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM122420S.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 |
| (1R)-2,6,6-Trimet... | 12.47 | 1.4     | ug/L  | 42405    | 2                     | 11.63 | 735415 | 25.0 |
| Benzene, 4-ethyl-... | 13.79 | 1.8     | ug/L  | 36343    | 3                     | 13.56 | 507191 | 25.0 |
| Benzene, 2-ethyl-... | 14.01 | 2.1     | ug/L  | 43673    | 3                     | 13.56 | 507191 | 25.0 |
| Benzene, 1-ethyl-... | 14.04 | 2.4     | ug/L  | 48710    | 3                     | 13.56 | 507191 | 25.0 |
| o-Cymene             | 14.10 | 5.3     | ug/L  | 106959   | 3                     | 13.56 | 507191 | 25.0 |
| Benzene, 1-ethyl-... | 14.20 | 1.3     | ug/L  | 25411    | 3                     | 13.56 | 507191 | 25.0 |
| unknown-01           | 14.33 | 2.5     | ug/L  | 50198    | 3                     | 13.56 | 507191 | 25.0 |
| Benzene, 1,2,4,5-... | 14.42 | 5.6     | ug/L  | 113314   | 3                     | 13.56 | 507191 | 25.0 |
| Benzene, 1,2,3,5-... | 14.46 | 8.7     | ug/L  | 176487   | 3                     | 13.56 | 507191 | 25.0 |
| 1H-Indene, 2,3-di... | 14.69 | 2.1     | ug/L  | 41879    | 3                     | 13.56 | 507191 | 25.0 |
| Benzene, 1,2,3,4-... | 14.79 | 8.2     | ug/L  | 166025   | 3                     | 13.56 | 507191 | 25.0 |
| Benzene, pentamet... | 15.06 | 1.7     | ug/L  | 35156    | 3                     | 13.56 | 507191 | 25.0 |