

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VV061324\  
 Data File : VV036065.D  
 Acq On : 13 Jun 2024 16:03  
 Operator : SY/MD  
 Sample : P2775-13RE  
 Misc : 5.52g/10.0mL/MSVOA\_V/SOIL/B  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 A4C95RE

Integration Parameters: LSCINT.P

Integrator: RTE

Smoothing : OFF

Filtering: 5

Sampling : 1

Min Area: 0 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM053024SMA.M  
 Title : VOC Analysis

Signal : TIC: VV036065.D\data.ms

| 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         | 1.272       | 65            | 72          | 93           | rVB      | 192713         | 216197        | 15.93%          | 2.398%        |
| 2         | 1.526       | 144           | 151         | 164          | rVB      | 182195         | 216209        | 15.93%          | 2.399%        |
| 3         | 2.050       | 304           | 314         | 336          | rVB      | 351629         | 527973        | 38.91%          | 5.857%        |
| 4         | 2.368       | 400           | 413         | 415          | rBV3     | 1882           | 3636          | 0.27%           | 0.040%        |
| 5         | 2.439       | 424           | 435         | 458          | rVB      | 112029         | 195571        | 14.41%          | 2.170%        |
| 6         | 2.619       | 488           | 491         | 495          | rBV4     | 608            | 417           | 0.03%           | 0.005%        |
| 7         | 2.696       | 508           | 515         | 517          | rBV3     | 2434           | 2970          | 0.22%           | 0.033%        |
| 8         | 2.777       | 537           | 540         | 545          | rBV      | 481            | 364           | 0.03%           | 0.004%        |
| 9         | 2.880       | 567           | 572         | 575          | rBV3     | 316            | 308           | 0.02%           | 0.003%        |
| 10        | 2.960       | 582           | 597         | 620          | rBV2     | 13733          | 31240         | 2.30%           | 0.347%        |
| 11        | 3.098       | 634           | 640         | 642          | rBV2     | 914            | 823           | 0.06%           | 0.009%        |
| 12        | 3.629       | 803           | 805         | 811          | rVB      | 400            | 360           | 0.03%           | 0.004%        |
| 13        | 3.671       | 814           | 818         | 823          | rVV3     | 306            | 313           | 0.02%           | 0.003%        |
| 14        | 3.870       | 861           | 880         | 885          | rBV2     | 10161          | 24573         | 1.81%           | 0.273%        |
| 15        | 4.150       | 965           | 967         | 968          | rBV2     | 605            | 283           | 0.02%           | 0.003%        |
| 16        | 4.243       | 980           | 996         | 1032         | rBV      | 246507         | 656924        | 48.42%          | 7.288%        |
| 17        | 4.484       | 1068          | 1071        | 1072         | rBV2     | 502            | 314           | 0.02%           | 0.003%        |
| 18        | 4.638       | 1116          | 1119        | 1123         | rVB2     | 463            | 305           | 0.02%           | 0.003%        |
| 19        | 4.725       | 1141          | 1146        | 1148         | rBV3     | 998            | 874           | 0.06%           | 0.010%        |
| 20        | 4.809       | 1169          | 1172        | 1174         | rBV      | 366            | 308           | 0.02%           | 0.003%        |
| 21        | 4.828       | 1176          | 1178        | 1183         | rVB3     | 424            | 328           | 0.02%           | 0.004%        |
| 22        | 4.876       | 1188          | 1193        | 1199         | rVB4     | 600            | 552           | 0.04%           | 0.006%        |
| 23        | 4.950       | 1199          | 1216        | 1258         | rBV2     | 518604         | 1356823       | 100.00%         | 15.052%       |
| 24        | 5.211       | 1295          | 1297        | 1299         | rBV2     | 613            | 326           | 0.02%           | 0.004%        |
| 25        | 5.243       | 1305          | 1307        | 1312         | rBV3     | 459            | 364           | 0.03%           | 0.004%        |
| 26        | 5.468       | 1373          | 1377        | 1380         | rBV3     | 779            | 559           | 0.04%           | 0.006%        |
| 27        | 5.529       | 1385          | 1396        | 1429         | rBV      | 449814         | 965721        | 71.18%          | 10.713%       |
| 28        | 5.761       | 1466          | 1468        | 1472         | rVB3     | 1067           | 508           | 0.04%           | 0.006%        |
| 29        | 5.828       | 1480          | 1489        | 1509         | rBV5     | 13524          | 33397         | 2.46%           | 0.370%        |
| 30        | 5.986       | 1525          | 1538        | 1567         | rBV      | 329243         | 701703        | 51.72%          | 7.784%        |
| 31        | 6.304       | 1635          | 1637        | 1640         | rVB2     | 579            | 364           | 0.03%           | 0.004%        |
| 32        | 6.333       | 1640          | 1646        | 1647         | rBV4     | 496            | 415           | 0.03%           | 0.005%        |
| 33        | 6.436       | 1675          | 1678        | 1681         | rBV3     | 1038           | 757           | 0.06%           | 0.008%        |
| 34        | 6.754       | 1775          | 1777        | 1782         | rVB2     | 648            | 354           | 0.03%           | 0.004%        |
| 35        | 6.802       | 1789          | 1792        | 1795         | rBV2     | 431            | 357           | 0.03%           | 0.004%        |
| 36        | 6.876       | 1808          | 1815        | 1817         | rBV2     | 328            | 364           | 0.03%           | 0.004%        |

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 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 A4C95RE

Integration Parameters: LSCINT.P

Integrator: RTE

Smoothing : OFF

Filtering: 5

Sampling : 1

Min Area: 0 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM053024SMA.M  
 Title : VOC Analysis

|    |        |      |      |      |      |        |         |        |         |
|----|--------|------|------|------|------|--------|---------|--------|---------|
| 37 | 6.915  | 1817 | 1827 | 1851 | rBV  | 79017  | 164822  | 12.15% | 1.828%  |
| 38 | 7.188  | 1910 | 1912 | 1917 | rVB3 | 556    | 295     | 0.02%  | 0.003%  |
| 39 | 7.240  | 1917 | 1928 | 1961 | rBV  | 489189 | 899266  | 66.28% | 9.976%  |
| 40 | 7.474  | 1999 | 2001 | 2007 | rVB3 | 558    | 472     | 0.03%  | 0.005%  |
| 41 | 7.558  | 2016 | 2027 | 2049 | rBV  | 51539  | 105885  | 7.80%  | 1.175%  |
| 42 | 7.789  | 2093 | 2099 | 2106 | rBV6 | 1094   | 1563    | 0.12%  | 0.017%  |
| 43 | 7.822  | 2106 | 2109 | 2112 | rVB3 | 738    | 401     | 0.03%  | 0.004%  |
| 44 | 7.876  | 2115 | 2126 | 2134 | rBV2 | 11941  | 21636   | 1.59%  | 0.240%  |
| 45 | 8.040  | 2168 | 2177 | 2205 | rBV  | 38039  | 107383  | 7.91%  | 1.191%  |
| 46 | 8.365  | 2275 | 2278 | 2283 | rBV3 | 465    | 384     | 0.03%  | 0.004%  |
| 47 | 8.413  | 2288 | 2293 | 2294 | rBV4 | 937    | 668     | 0.05%  | 0.007%  |
| 48 | 8.510  | 2320 | 2323 | 2325 | rBV3 | 723    | 415     | 0.03%  | 0.005%  |
| 49 | 8.571  | 2339 | 2342 | 2345 | rBV2 | 630    | 298     | 0.02%  | 0.003%  |
| 50 | 8.606  | 2351 | 2353 | 2358 | rVB2 | 480    | 450     | 0.03%  | 0.005%  |
| 51 | 8.648  | 2362 | 2366 | 2373 | rVB2 | 483    | 552     | 0.04%  | 0.006%  |
| 52 | 8.783  | 2397 | 2408 | 2432 | rBV  | 615527 | 1034273 | 76.23% | 11.474% |
| 53 | 9.085  | 2498 | 2502 | 2504 | rBV5 | 1142   | 847     | 0.06%  | 0.009%  |
| 54 | 9.301  | 2563 | 2569 | 2572 | rBV3 | 299    | 358     | 0.03%  | 0.004%  |
| 55 | 9.365  | 2584 | 2589 | 2593 | rBV3 | 508    | 448     | 0.03%  | 0.005%  |
| 56 | 9.490  | 2619 | 2628 | 2629 | rBV5 | 1546   | 1733    | 0.13%  | 0.019%  |
| 57 | 9.680  | 2684 | 2687 | 2689 | rBV3 | 623    | 373     | 0.03%  | 0.004%  |
| 58 | 9.693  | 2689 | 2691 | 2693 | rBV  | 555    | 392     | 0.03%  | 0.004%  |
| 59 | 9.838  | 2724 | 2736 | 2760 | rBV  | 64140  | 111976  | 8.25%  | 1.242%  |
| 60 | 10.011 | 2786 | 2790 | 2794 | rBV3 | 366    | 300     | 0.02%  | 0.003%  |
| 61 | 10.059 | 2800 | 2805 | 2811 | rBV6 | 1327   | 1760    | 0.13%  | 0.020%  |
| 62 | 10.153 | 2816 | 2834 | 2860 | rVV  | 227107 | 372533  | 27.46% | 4.133%  |
| 63 | 10.323 | 2875 | 2887 | 2903 | rVB  | 32993  | 53330   | 3.93%  | 0.592%  |
| 64 | 10.510 | 2929 | 2945 | 2957 | rBV3 | 21159  | 36915   | 2.72%  | 0.410%  |
| 65 | 10.577 | 2962 | 2966 | 2971 | rVB4 | 914    | 955     | 0.07%  | 0.011%  |
| 66 | 10.770 | 3024 | 3026 | 3032 | rVB2 | 322    | 296     | 0.02%  | 0.003%  |
| 67 | 10.870 | 3048 | 3057 | 3061 | rBV8 | 1837   | 3127    | 0.23%  | 0.035%  |
| 68 | 10.969 | 3082 | 3088 | 3092 | rBV6 | 832    | 1199    | 0.09%  | 0.013%  |
| 69 | 11.082 | 3116 | 3123 | 3130 | rBV4 | 2734   | 3911    | 0.29%  | 0.043%  |
| 70 | 11.130 | 3131 | 3138 | 3144 | rBV8 | 5193   | 7088    | 0.52%  | 0.079%  |
| 71 | 11.185 | 3144 | 3155 | 3173 | rBV  | 366489 | 586640  | 43.24% | 6.508%  |
| 72 | 11.493 | 3241 | 3251 | 3261 | rBV5 | 8605   | 19733   | 1.45%  | 0.219%  |
| 73 | 11.558 | 3261 | 3271 | 3294 | rVB  | 288053 | 472352  | 34.81% | 5.240%  |
| 74 | 11.863 | 3364 | 3366 | 3369 | rVB2 | 916    | 491     | 0.04%  | 0.005%  |
| 75 | 12.014 | 3411 | 3413 | 3414 | rBV2 | 550    | 285     | 0.02%  | 0.003%  |
| 76 | 12.088 | 3432 | 3436 | 3437 | rBV2 | 373    | 297     | 0.02%  | 0.003%  |

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 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 A4C95RE

Integration Parameters: LSCINT.P

Integrator: RTE

Smoothing : OFF

Filtering: 5

Sampling : 1

Min Area: 0 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM053024SMA.M  
 Title : VOC Analysis

|     |        |      |      |      |      |       |       |       |        |
|-----|--------|------|------|------|------|-------|-------|-------|--------|
| 77  | 12.194 | 3459 | 3469 | 3477 | rBV3 | 10665 | 17578 | 1.30% | 0.195% |
| 78  | 12.272 | 3490 | 3493 | 3496 | rBV2 | 411   | 316   | 0.02% | 0.004% |
| 79  | 12.300 | 3498 | 3502 | 3504 | rBV4 | 1319  | 1025  | 0.08% | 0.011% |
| 80  | 12.445 | 3543 | 3547 | 3549 | rBV2 | 592   | 466   | 0.03% | 0.005% |
| 81  | 12.471 | 3552 | 3555 | 3557 | rVB  | 534   | 321   | 0.02% | 0.004% |
| 82  | 12.616 | 3588 | 3600 | 3617 | rBV7 | 6988  | 13397 | 0.99% | 0.149% |
| 83  | 12.754 | 3641 | 3643 | 3647 | rVB3 | 485   | 327   | 0.02% | 0.004% |
| 84  | 12.828 | 3658 | 3666 | 3676 | rVB6 | 2574  | 3867  | 0.29% | 0.043% |
| 85  | 13.008 | 3720 | 3722 | 3729 | rVB5 | 704   | 729   | 0.05% | 0.008% |
| 86  | 13.040 | 3729 | 3732 | 3735 | rBV3 | 682   | 503   | 0.04% | 0.006% |
| 87  | 13.095 | 3746 | 3749 | 3754 | rBV5 | 882   | 706   | 0.05% | 0.008% |
| 88  | 13.217 | 3781 | 3787 | 3792 | rVV7 | 976   | 974   | 0.07% | 0.011% |
| 89  | 13.246 | 3793 | 3796 | 3799 | rVB2 | 514   | 371   | 0.03% | 0.004% |
| 90  | 13.471 | 3858 | 3866 | 3873 | rBV7 | 4563  | 6206  | 0.46% | 0.069% |
| 91  | 13.686 | 3928 | 3933 | 3935 | rBV3 | 1098  | 927   | 0.07% | 0.010% |
| 92  | 13.786 | 3962 | 3964 | 3969 | rVB3 | 471   | 337   | 0.02% | 0.004% |
| 93  | 13.927 | 4006 | 4008 | 4012 | rVB2 | 579   | 310   | 0.02% | 0.003% |
| 94  | 14.066 | 4048 | 4051 | 4054 | rBV3 | 627   | 445   | 0.03% | 0.005% |
| 95  | 14.124 | 4066 | 4069 | 4072 | rVB3 | 1060  | 707   | 0.05% | 0.008% |
| 96  | 14.246 | 4104 | 4107 | 4108 | rBV3 | 604   | 396   | 0.03% | 0.004% |
| 97  | 14.821 | 4282 | 4286 | 4287 | rBV4 | 704   | 507   | 0.04% | 0.006% |
| 98  | 14.860 | 4296 | 4298 | 4303 | rVB4 | 890   | 579   | 0.04% | 0.006% |
| 99  | 15.001 | 4340 | 4342 | 4344 | rBV2 | 653   | 420   | 0.03% | 0.005% |
| 100 | 15.159 | 4385 | 4391 | 4398 | rVB8 | 3132  | 3851  | 0.28% | 0.043% |

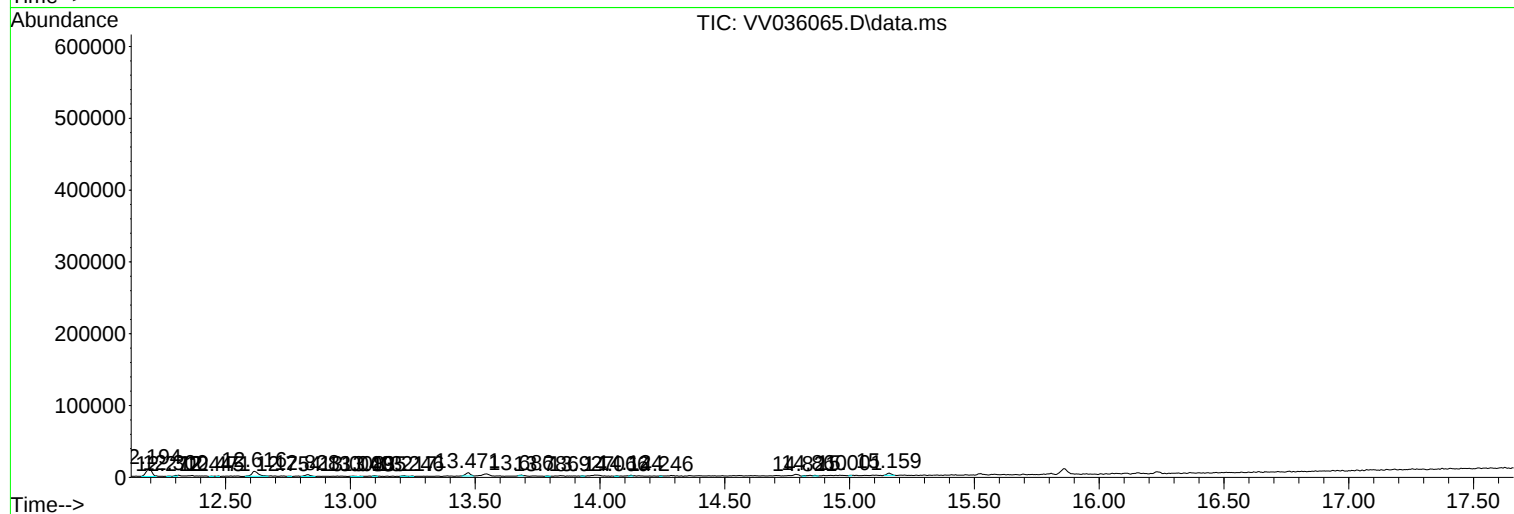
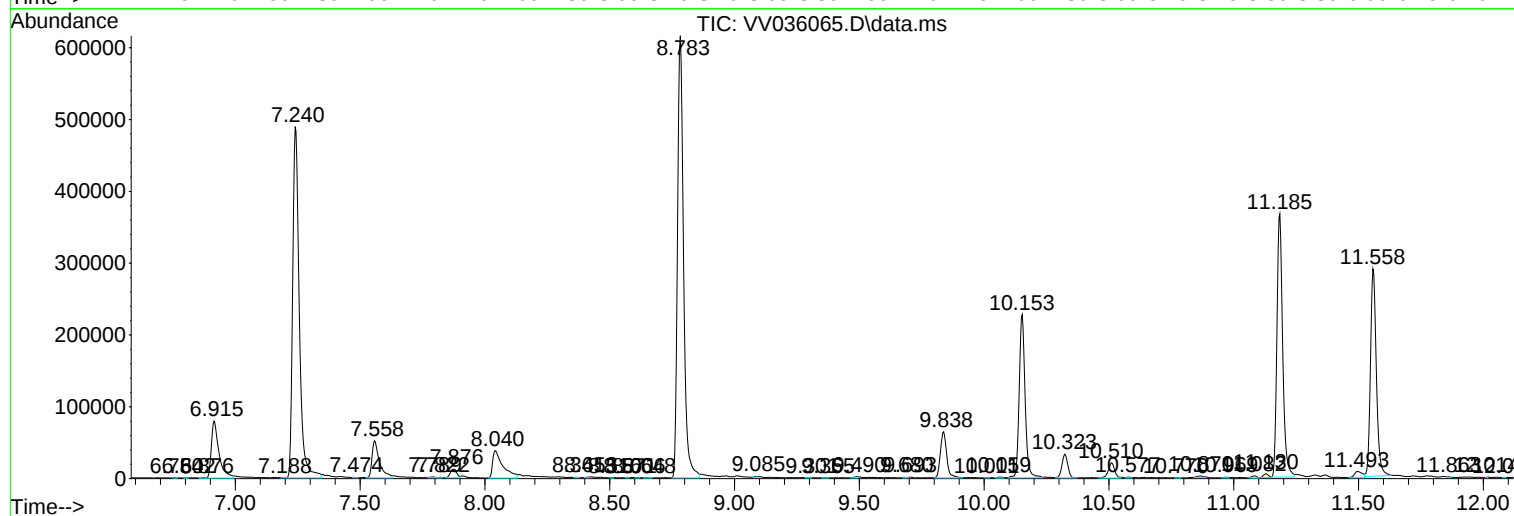
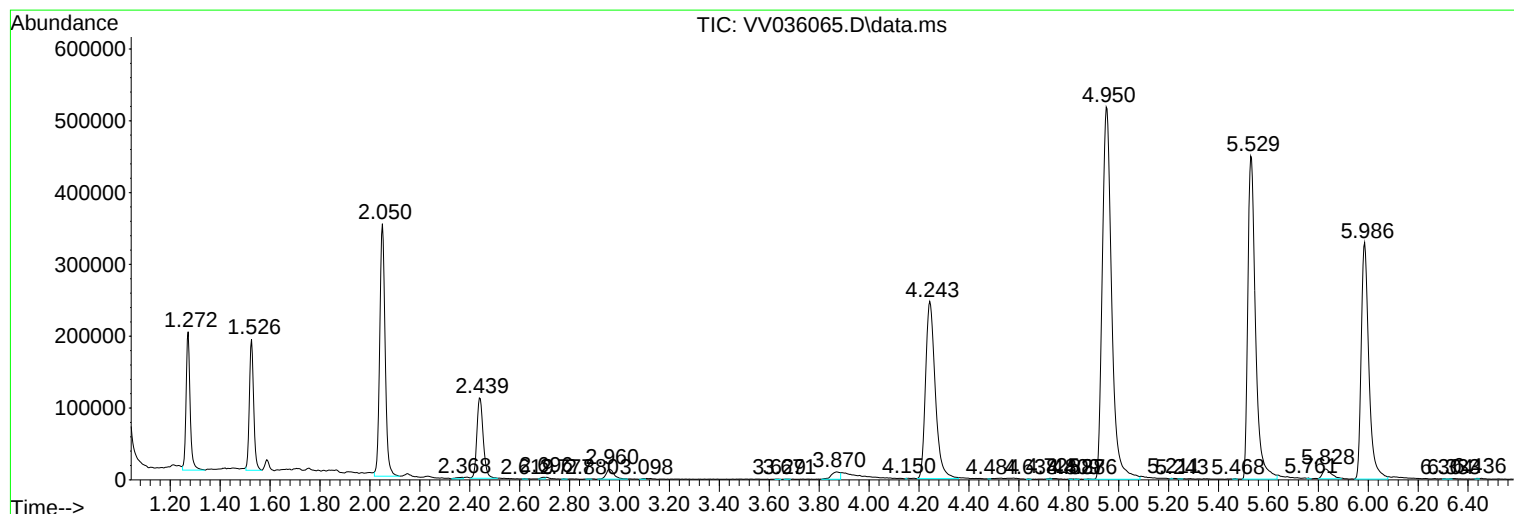
Sum of corrected areas: 9014221

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VV061324\  
Data File : VV036065.D  
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Instrument :  
MSVOA\_V  
ClientSampleId :  
A4C95RE

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM053024SMA.M  
Quant Title : VOC Analysis

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VV061324\  
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM053024SMA.M  
Quant Title : VOC Analysis

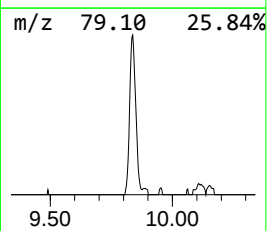
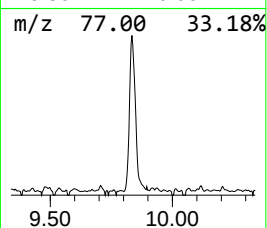
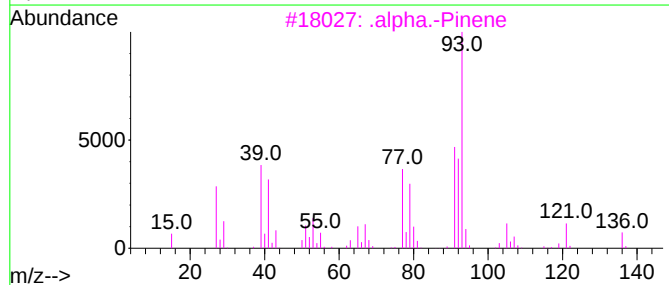
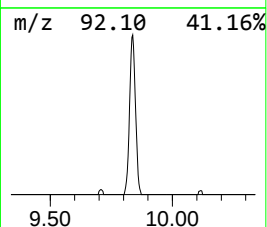
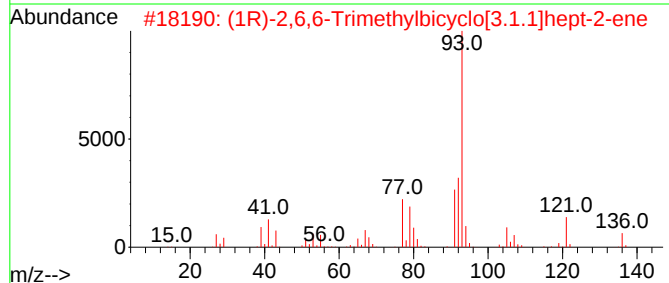
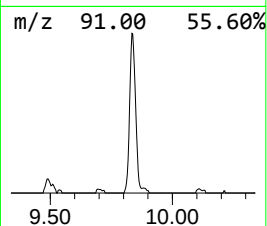
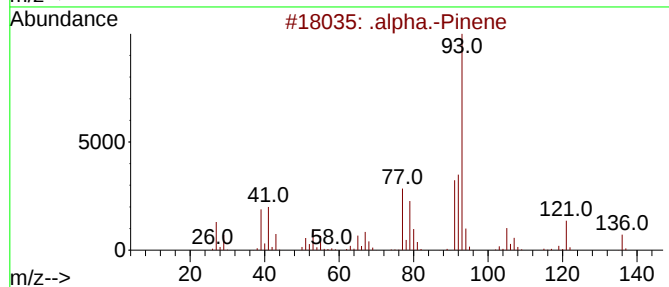
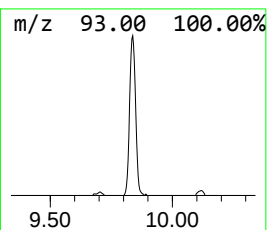
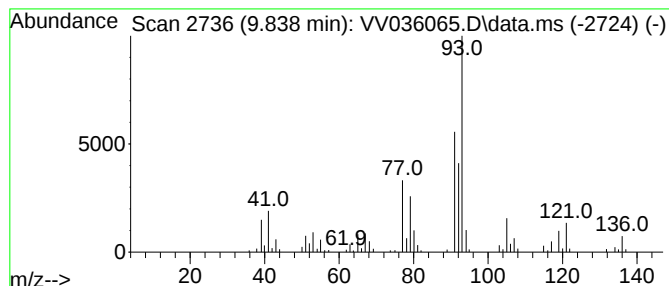
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 .alpha.-Pinene Concentration Rank 2

| R.T.  | EstConc   | Area   | Relative to ISTD | R.T.  |
|-------|-----------|--------|------------------|-------|
| 9.838 | 2.71 ug/L | 111976 | Chlorobenzene-d5 | 8.783 |

| Hit# | of 5 | Tentative ID                                 | MW  | MolForm | CAS#        | Qual |
|------|------|----------------------------------------------|-----|---------|-------------|------|
| 1    |      | .alpha.-Pinene                               | 136 | C10H16  | 000080-56-8 | 95   |
| 2    |      | (1R)-2,6,6-Trimethylbicyclo[3.1.1]hept-2-ene | 136 | C10H16  | 007785-70-8 | 94   |
| 3    |      | .alpha.-Pinene                               | 136 | C10H16  | 000080-56-8 | 93   |
| 4    |      | Bicyclo[3.1.1]hept-2-ene, 3,6,6-trimethyl-   | 136 | C10H16  | 004889-83-2 | 91   |
| 5    |      | .alpha.-Pinene                               | 136 | C10H16  | 000080-56-8 | 91   |



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MSVOA\_V  
ClientSampleId :  
A4C95RE

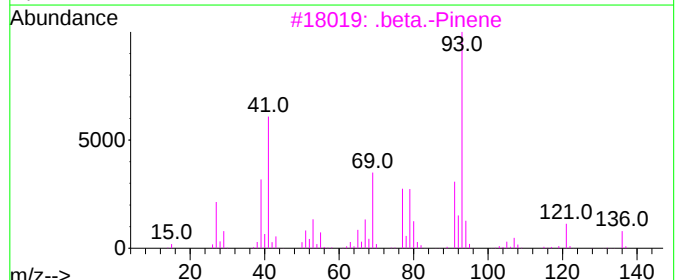
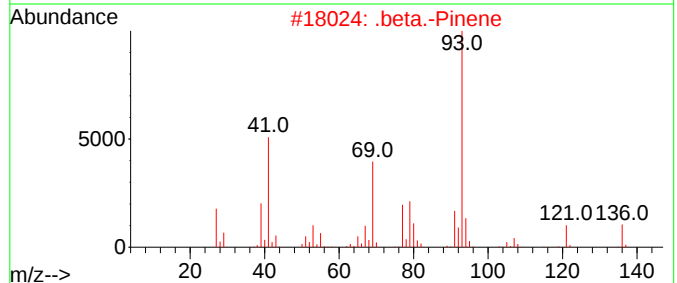
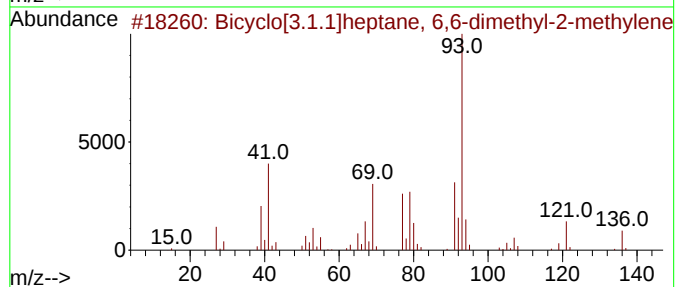
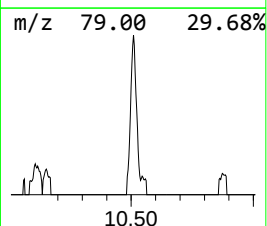
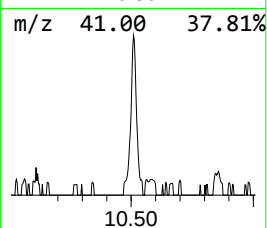
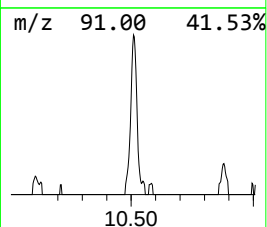
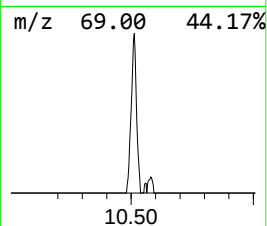
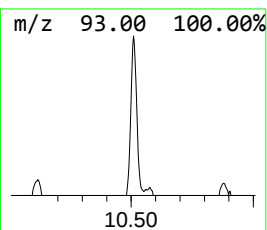
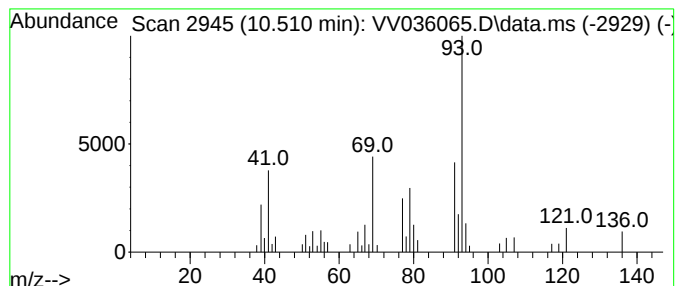
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM053024SMA.M  
Quant Title : VOC Analysis

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 Bicyclo[3.1.1]heptane, 6,6-... Concentration Rank 4

| R.T.   | EstConc   | Area  | Relative to ISTD       | R.T.   |
|--------|-----------|-------|------------------------|--------|
| 10.509 | 1.57 ug/L | 36915 | 1,4-Dichlorobenzene-d4 | 11.185 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Bicyclo[3.1.1]heptane, 6,6-dimet... | 136 | C10H16  | 018172-67-3 | 95   |
| 2    |    |   | .beta.-Pinene                       | 136 | C10H16  | 000127-91-3 | 94   |
| 3    |    |   | .beta.-Pinene                       | 136 | C10H16  | 000127-91-3 | 94   |
| 4    |    |   | .beta.-Pinene                       | 136 | C10H16  | 000127-91-3 | 91   |
| 5    |    |   | Bicyclo[3.1.1]heptane, 6,6-dimet... | 136 | C10H16  | 018172-67-3 | 87   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VV061324\  
Data File : VV036065.D  
Acq On : 13 Jun 2024 16:03  
Operator : SY/MD  
Sample : P2775-13RE  
Misc : 5.52g/10.0mL/MSVOA\_V/SOIL/B  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
A4C95RE

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM053024SMA.M  
Quant Title : VOC Analysis

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

| TIC Top Hit name   | RT     | EstConc | Units | Response | --Internal Standard-- |        |         |      |
|--------------------|--------|---------|-------|----------|-----------------------|--------|---------|------|
|                    |        |         |       |          | #                     | RT     | Resp    | Conc |
| .alpha.-Pinene     | 9.838  | 2.7     | ug/L  | 111976   | 2                     | 8.783  | 1034270 | 25.0 |
| Bicyclo[3.1.1]h... | 10.509 | 1.6     | ug/L  | 36915    | 3                     | 11.185 | 586640  | 25.0 |