

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VV040821\  
 Data File : VV020973.D  
 Acq On : 08 Apr 2021 15:35  
 Operator : SY/MD  
 Sample : M1881-21  
 Misc : 5.0mL/MSVOA\_V/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VHBLK02

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\SOMVLM032321WMA.M

Title : VOC Analysis

Signal : TIC: VV020973.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         | 1.307       | 77            | 83          | 99           | rVB      | 271618         | 272283        | 13.28%          | 1.725%        |
| 2         | 1.571       | 157           | 165         | 177          | rBV      | 214078         | 243287        | 11.87%          | 1.541%        |
| 3         | 2.108       | 321           | 332         | 348          | rBV      | 498018         | 734651        | 35.83%          | 4.654%        |
| 4         | 2.291       | 387           | 389         | 391          | rBV2     | 757            | 393           | 0.02%           | 0.002%        |
| 5         | 2.381       | 410           | 417         | 420          | rBV4     | 561            | 707           | 0.03%           | 0.004%        |
| 6         | 2.426       | 426           | 431         | 432          | rBV2     | 668            | 523           | 0.03%           | 0.003%        |
| 7         | 2.513       | 449           | 458         | 467          | rBV5     | 4603           | 7037          | 0.34%           | 0.045%        |
| 8         | 2.661       | 502           | 504         | 509          | rVB2     | 416            | 257           | 0.01%           | 0.002%        |
| 9         | 2.690       | 509           | 513         | 515          | rBV2     | 558            | 374           | 0.02%           | 0.002%        |
| 10        | 2.699       | 515           | 516         | 520          | rVB      | 404            | 211           | 0.01%           | 0.001%        |
| 11        | 2.751       | 528           | 532         | 533          | rBV      | 650            | 393           | 0.02%           | 0.002%        |
| 12        | 2.828       | 554           | 556         | 559          | rVB2     | 474            | 201           | 0.01%           | 0.001%        |
| 13        | 2.886       | 570           | 574         | 576          | rBV      | 543            | 452           | 0.02%           | 0.003%        |
| 14        | 2.921       | 582           | 585         | 587          | rBV      | 310            | 196           | 0.01%           | 0.001%        |
| 15        | 2.947       | 590           | 593         | 595          | rBV2     | 291            | 199           | 0.01%           | 0.001%        |
| 16        | 3.031       | 616           | 619         | 621          | rBV2     | 405            | 254           | 0.01%           | 0.002%        |
| 17        | 3.088       | 634           | 637         | 641          | rVB3     | 395            | 303           | 0.01%           | 0.002%        |
| 18        | 3.214       | 674           | 676         | 681          | rVB2     | 396            | 245           | 0.01%           | 0.002%        |
| 19        | 3.246       | 681           | 686         | 689          | rBV3     | 596            | 474           | 0.02%           | 0.003%        |
| 20        | 3.294       | 698           | 701         | 704          | rBV2     | 500            | 276           | 0.01%           | 0.002%        |
| 21        | 3.330       | 709           | 712         | 716          | rBV      | 478            | 354           | 0.02%           | 0.002%        |
| 22        | 3.378       | 723           | 727         | 729          | rBV      | 389            | 322           | 0.02%           | 0.002%        |
| 23        | 3.548       | 778           | 780         | 783          | rVB2     | 615            | 286           | 0.01%           | 0.002%        |
| 24        | 3.654       | 810           | 813         | 817          | rBV3     | 357            | 258           | 0.01%           | 0.002%        |
| 25        | 3.757       | 838           | 845         | 847          | rBV      | 528            | 422           | 0.02%           | 0.003%        |
| 26        | 3.789       | 852           | 855         | 856          | rBV      | 371            | 222           | 0.01%           | 0.001%        |
| 27        | 3.905       | 877           | 891         | 931          | rBV2     | 90589          | 343901        | 16.77%          | 2.179%        |
| 28        | 4.352       | 1014          | 1030        | 1055         | rBV      | 354808         | 878601        | 42.85%          | 5.566%        |
| 29        | 4.632       | 1115          | 1117        | 1119         | rBV3     | 896            | 342           | 0.02%           | 0.002%        |
| 30        | 4.821       | 1172          | 1176        | 1177         | rBV      | 628            | 334           | 0.02%           | 0.002%        |
| 31        | 4.947       | 1213          | 1215        | 1217         | rVB      | 525            | 220           | 0.01%           | 0.001%        |
| 32        | 5.050       | 1228          | 1247        | 1273         | rBV2     | 800227         | 2050188       | 100.00%         | 12.989%       |
| 33        | 5.445       | 1368          | 1370        | 1373         | rBV      | 540            | 334           | 0.02%           | 0.002%        |
| 34        | 5.481       | 1380          | 1381        | 1384         | rVB2     | 767            | 355           | 0.02%           | 0.002%        |
| 35        | 5.506       | 1384          | 1389        | 1393         | rBV2     | 1019           | 973           | 0.05%           | 0.006%        |
| 36        | 5.535       | 1396          | 1398        | 1403         | rVB2     | 1198           | 773           | 0.04%           | 0.005%        |

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

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SOMVLM032321WMA.M  
 Title : VOC Analysis

|    |       |      |      |      |      |        |         |        |         |
|----|-------|------|------|------|------|--------|---------|--------|---------|
| 37 | 5.558 | 1403 | 1405 | 1406 | rBV  | 423    | 217     | 0.01%  | 0.001%  |
| 38 | 5.619 | 1410 | 1424 | 1448 | rBV  | 653011 | 1311792 | 63.98% | 8.311%  |
| 39 | 5.847 | 1493 | 1495 | 1499 | rVB3 | 783    | 431     | 0.02%  | 0.003%  |
| 40 | 5.911 | 1505 | 1515 | 1533 | rVB3 | 36835  | 77834   | 3.80%  | 0.493%  |
| 41 | 6.072 | 1551 | 1565 | 1588 | rBV  | 436340 | 875195  | 42.69% | 5.545%  |
| 42 | 6.288 | 1629 | 1632 | 1634 | rBV2 | 452    | 267     | 0.01%  | 0.002%  |
| 43 | 6.355 | 1651 | 1653 | 1655 | rBV2 | 645    | 319     | 0.02%  | 0.002%  |
| 44 | 6.436 | 1675 | 1678 | 1681 | rVB3 | 631    | 350     | 0.02%  | 0.002%  |
| 45 | 6.497 | 1693 | 1697 | 1700 | rBV3 | 613    | 520     | 0.03%  | 0.003%  |
| 46 | 6.567 | 1717 | 1719 | 1722 | rBV2 | 700    | 531     | 0.03%  | 0.003%  |
| 47 | 6.606 | 1729 | 1731 | 1734 | rBV  | 652    | 388     | 0.02%  | 0.002%  |
| 48 | 6.641 | 1739 | 1742 | 1745 | rVB2 | 498    | 301     | 0.01%  | 0.002%  |
| 49 | 6.661 | 1745 | 1748 | 1751 | rBV3 | 613    | 572     | 0.03%  | 0.004%  |
| 50 | 6.673 | 1751 | 1752 | 1757 | rVB2 | 564    | 272     | 0.01%  | 0.002%  |
| 51 | 6.879 | 1813 | 1816 | 1821 | rBV2 | 602    | 411     | 0.02%  | 0.003%  |
| 52 | 6.924 | 1827 | 1830 | 1834 | rBV  | 418    | 264     | 0.01%  | 0.002%  |
| 53 | 6.989 | 1839 | 1850 | 1879 | rBV2 | 257942 | 474205  | 23.13% | 3.004%  |
| 54 | 7.255 | 1930 | 1933 | 1934 | rVV2 | 460    | 280     | 0.01%  | 0.002%  |
| 55 | 7.320 | 1941 | 1953 | 1971 | rBV  | 982290 | 1691924 | 82.53% | 10.719% |
| 56 | 7.590 | 2033 | 2037 | 2038 | rBV  | 880    | 634     | 0.03%  | 0.004%  |
| 57 | 7.625 | 2038 | 2048 | 2072 | rVV  | 177653 | 315715  | 15.40% | 2.000%  |
| 58 | 7.847 | 2115 | 2117 | 2119 | rBV2 | 622    | 361     | 0.02%  | 0.002%  |
| 59 | 8.053 | 2178 | 2181 | 2184 | rBV  | 427    | 384     | 0.02%  | 0.002%  |
| 60 | 8.095 | 2184 | 2194 | 2225 | rBV  | 390970 | 798480  | 38.95% | 5.059%  |
| 61 | 8.535 | 2327 | 2331 | 2333 | rVB2 | 382    | 246     | 0.01%  | 0.002%  |
| 62 | 8.554 | 2333 | 2337 | 2339 | rBV  | 428    | 366     | 0.02%  | 0.002%  |
| 63 | 8.570 | 2340 | 2342 | 2345 | rVB  | 956    | 520     | 0.03%  | 0.003%  |
| 64 | 8.619 | 2355 | 2357 | 2358 | rBV  | 550    | 229     | 0.01%  | 0.001%  |
| 65 | 8.657 | 2365 | 2369 | 2370 | rBV  | 335    | 271     | 0.01%  | 0.002%  |
| 66 | 8.693 | 2376 | 2380 | 2382 | rBV2 | 518    | 348     | 0.02%  | 0.002%  |
| 67 | 8.757 | 2397 | 2400 | 2403 | rBV3 | 362    | 272     | 0.01%  | 0.002%  |
| 68 | 8.789 | 2407 | 2410 | 2411 | rBV  | 533    | 357     | 0.02%  | 0.002%  |
| 69 | 8.857 | 2419 | 2431 | 2456 | rBV  | 994191 | 1598990 | 77.99% | 10.130% |
| 70 | 9.210 | 2535 | 2541 | 2542 | rBV2 | 445    | 392     | 0.02%  | 0.002%  |
| 71 | 9.333 | 2576 | 2579 | 2584 | rBV3 | 568    | 521     | 0.03%  | 0.003%  |
| 72 | 9.390 | 2593 | 2597 | 2601 | rVB2 | 593    | 443     | 0.02%  | 0.003%  |
| 73 | 9.419 | 2604 | 2606 | 2608 | rVB  | 716    | 291     | 0.01%  | 0.002%  |
| 74 | 9.432 | 2608 | 2610 | 2614 | rVB  | 540    | 321     | 0.02%  | 0.002%  |
| 75 | 9.493 | 2622 | 2629 | 2633 | rBV2 | 486    | 517     | 0.03%  | 0.003%  |
| 76 | 9.516 | 2635 | 2636 | 2640 | rBV3 | 425    | 247     | 0.01%  | 0.002%  |

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Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SOMVLM032321WMA.M

Title : VOC Analysis

|     |        |      |      |      |      |         |         |        |         |
|-----|--------|------|------|------|------|---------|---------|--------|---------|
| 77  | 9.757  | 2705 | 2711 | 2715 | rBV2 | 446     | 546     | 0.03%  | 0.003%  |
| 78  | 9.866  | 2743 | 2745 | 2749 | rBV2 | 459     | 374     | 0.02%  | 0.002%  |
| 79  | 9.937  | 2765 | 2767 | 2769 | rBV2 | 625     | 302     | 0.01%  | 0.002%  |
| 80  | 10.133 | 2821 | 2828 | 2841 | rVB7 | 5401    | 8519    | 0.42%  | 0.054%  |
| 81  | 10.220 | 2841 | 2855 | 2874 | rBV  | 598205  | 935554  | 45.63% | 5.927%  |
| 82  | 10.541 | 2952 | 2955 | 2957 | rBV2 | 541     | 350     | 0.02%  | 0.002%  |
| 83  | 10.657 | 2988 | 2991 | 2992 | rBV  | 794     | 459     | 0.02%  | 0.003%  |
| 84  | 10.924 | 3066 | 3074 | 3082 | rBV6 | 4721    | 6953    | 0.34%  | 0.044%  |
| 85  | 10.976 | 3087 | 3090 | 3094 | rBV2 | 419     | 328     | 0.02%  | 0.002%  |
| 86  | 11.027 | 3101 | 3106 | 3108 | rBV3 | 993     | 917     | 0.04%  | 0.006%  |
| 87  | 11.255 | 3165 | 3177 | 3200 | rBV  | 999384  | 1511999 | 73.75% | 9.579%  |
| 88  | 11.477 | 3244 | 3246 | 3249 | rVB2 | 984     | 413     | 0.02%  | 0.003%  |
| 89  | 11.631 | 3282 | 3294 | 3316 | rBV  | 1028204 | 1615129 | 78.78% | 10.232% |
| 90  | 11.789 | 3340 | 3343 | 3347 | rBV4 | 1535    | 1422    | 0.07%  | 0.009%  |
| 91  | 11.976 | 3398 | 3401 | 3403 | rBV2 | 814     | 536     | 0.03%  | 0.003%  |
| 92  | 12.066 | 3426 | 3429 | 3432 | rVB2 | 1110    | 560     | 0.03%  | 0.004%  |
| 93  | 12.162 | 3456 | 3459 | 3461 | rBV2 | 591     | 299     | 0.01%  | 0.002%  |
| 94  | 12.410 | 3533 | 3536 | 3539 | rVB  | 656     | 406     | 0.02%  | 0.003%  |
| 95  | 12.429 | 3539 | 3542 | 3546 | rBV2 | 509     | 394     | 0.02%  | 0.002%  |
| 96  | 12.590 | 3589 | 3592 | 3593 | rBV  | 804     | 427     | 0.02%  | 0.003%  |
| 97  | 12.937 | 3698 | 3700 | 3705 | rVB  | 477     | 276     | 0.01%  | 0.002%  |
| 98  | 13.056 | 3735 | 3737 | 3740 | rVB2 | 760     | 291     | 0.01%  | 0.002%  |
| 99  | 13.490 | 3870 | 3872 | 3874 | rBV2 | 682     | 350     | 0.02%  | 0.002%  |
| 100 | 14.872 | 4298 | 4302 | 4304 | rBV2 | 1323    | 1079    | 0.05%  | 0.007%  |

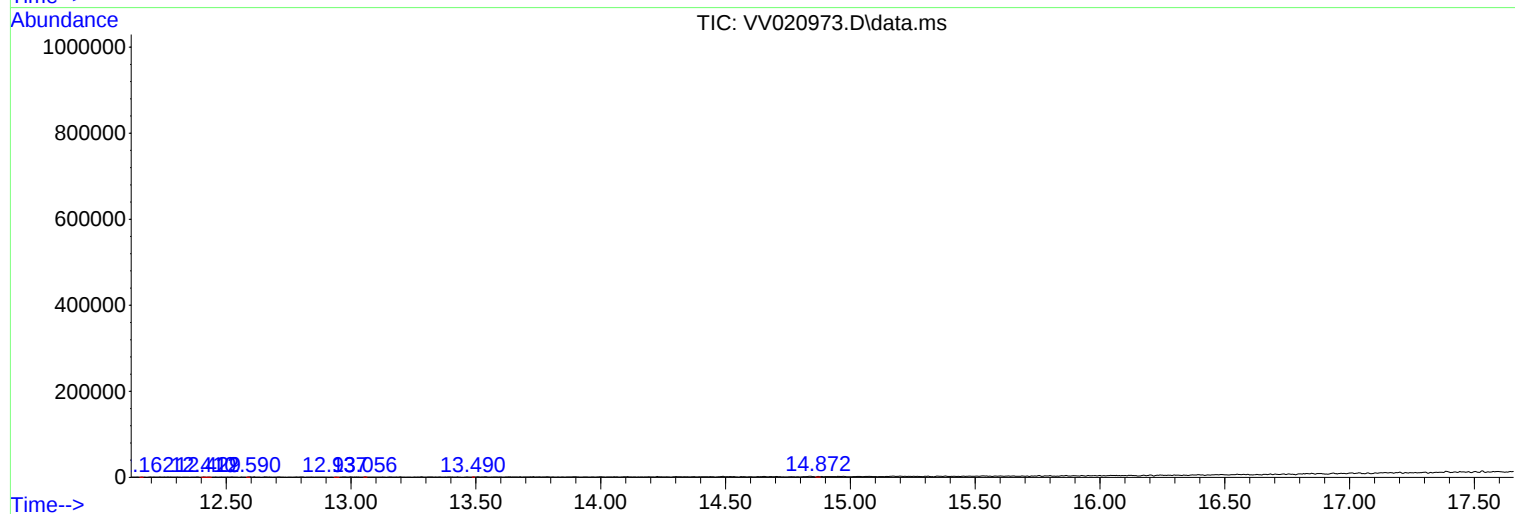
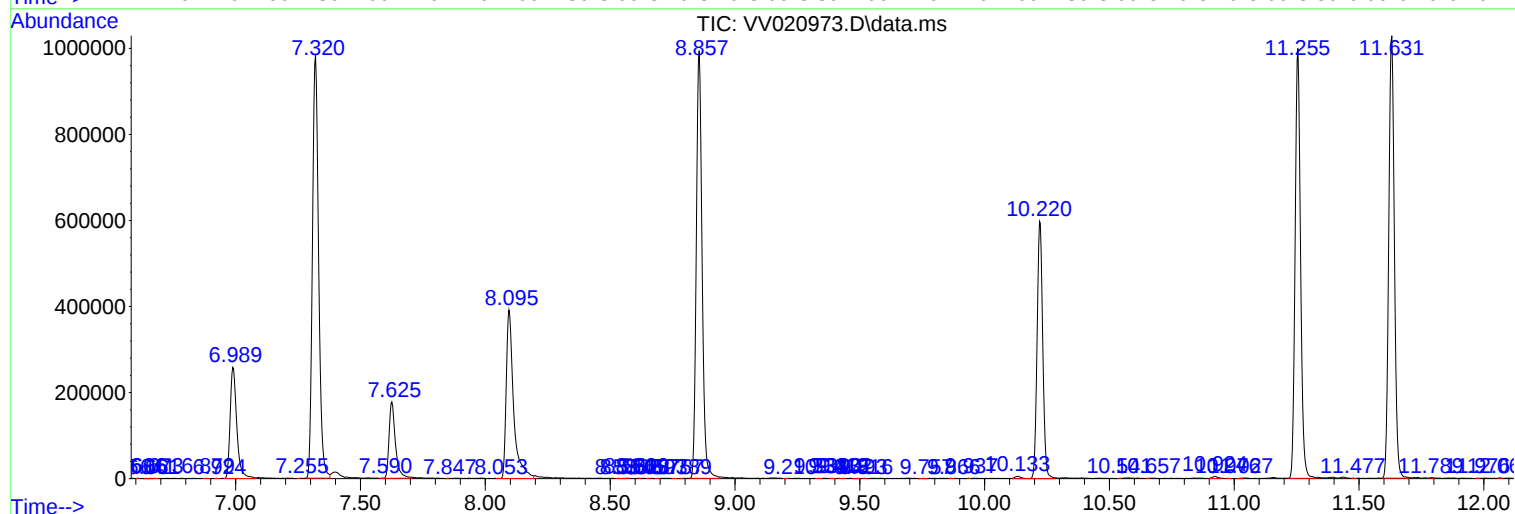
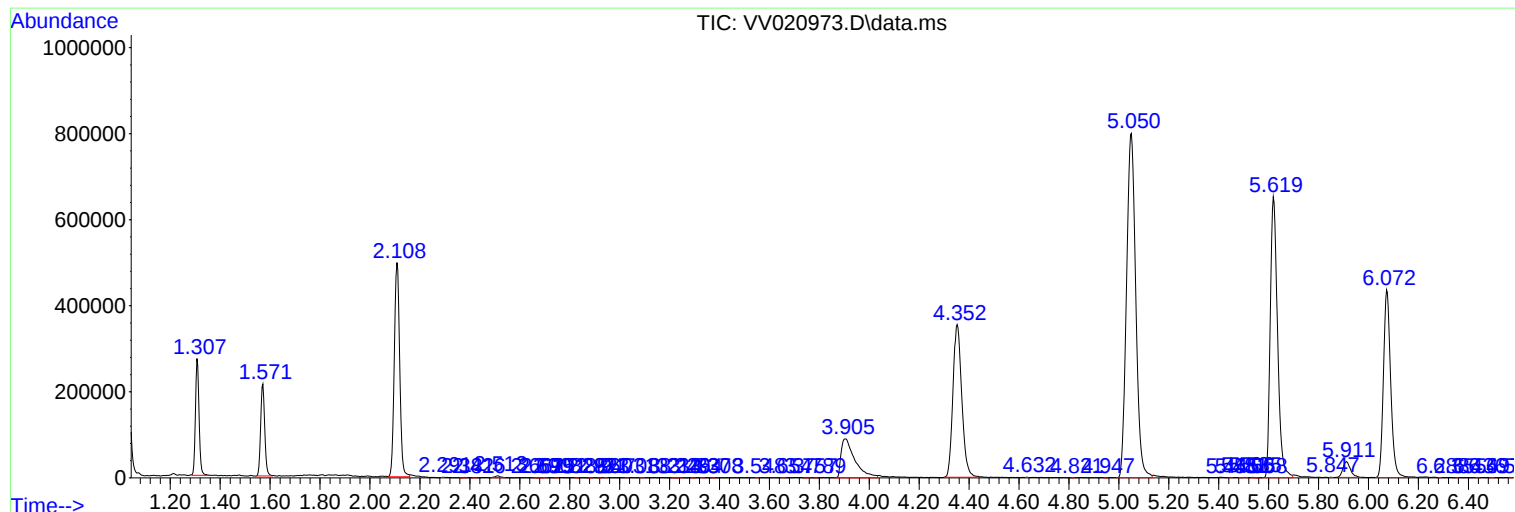
Sum of corrected areas: 15784462

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Instrument :  
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SOMVLM032321WMA.M  
Quant Title : VOC Analysis

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



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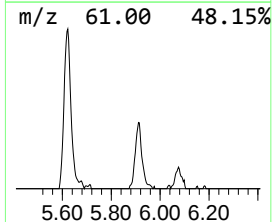
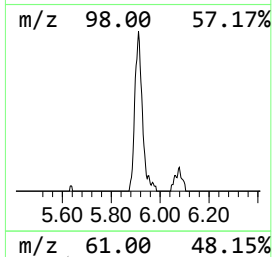
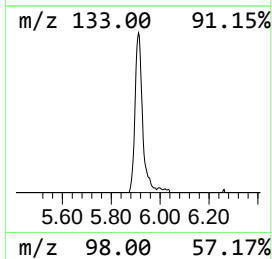
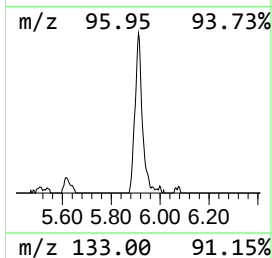
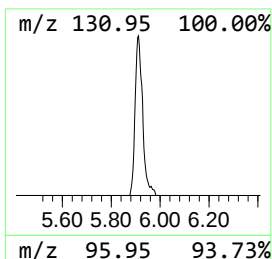
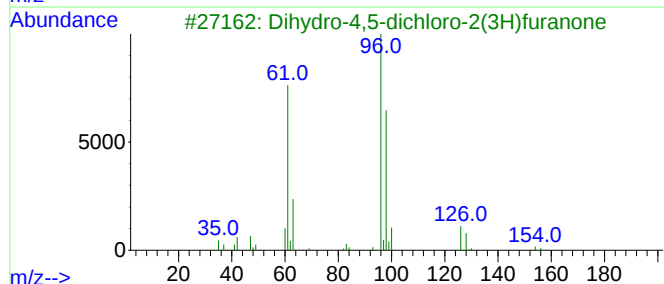
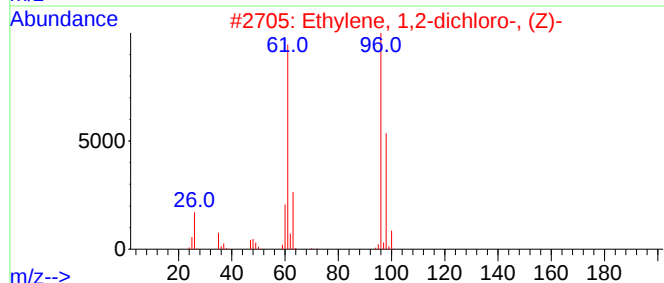
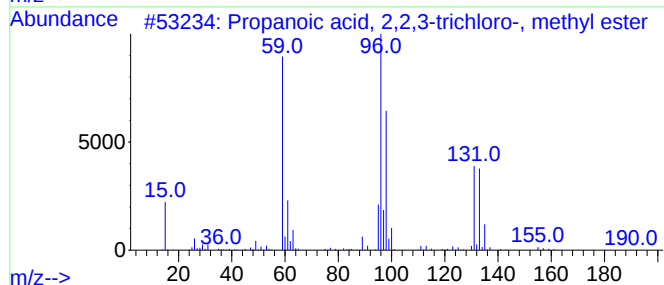
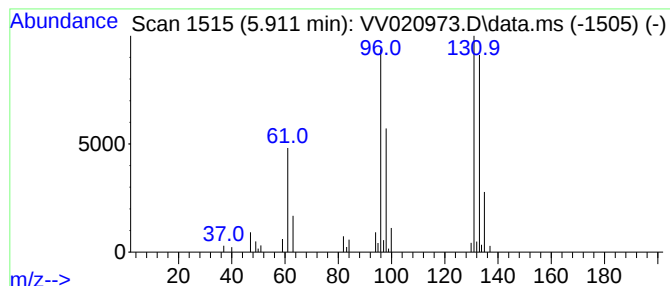
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SOMVLM032321WMA.M  
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TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 1 Propanoic acid, 2,2,3-trich... Concentration Rank 2

| R.T.  | EstConc   | Area  | Relative to ISTD    | R.T.  |
|-------|-----------|-------|---------------------|-------|
| 5.911 | 2.97 ug/L | 77834 | 1,4-Difluorobenzene | 5.619 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm   | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|-----------|-------------|------|
| 1    |    |   | Propanoic acid, 2,2,3-trichloro-... | 190 | C4H5Cl3O2 | 004749-35-3 | 50   |
| 2    |    |   | Ethylene, 1,2-dichloro-, (Z)-       | 96  | C2H2Cl2   | 000156-59-2 | 35   |
| 3    |    |   | Dihydro-4,5-dichloro-2(3H)furanone  | 154 | C4H4Cl2O2 | 114434-99-0 | 25   |
| 4    |    |   | 4H-Pyran-4-one                      | 96  | C5H4O2    | 000108-97-4 | 9    |
| 5    |    |   | 2-Cyano-3,5-dimethylpyrazine        | 133 | C7H7N3    | 124629-52-3 | 9    |



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| TIC Top Hit name   | RT    | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|--------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
|                    |       |         |       |          | #                     | RT    | Resp    | Conc |
| Propanoic acid,... | 5.911 | 3.0     | ug/L  | 77834    | 1                     | 5.619 | 1311790 | 50.0 |