

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU120721\  
 Data File : VU046144.D  
 Acq On : 07 Dec 2021 16:35  
 Operator : SY/MD  
 Sample : M4960-11DL 40X  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 18 Sample Multiplier: 1

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\_U\Method\SFAMULM112921WMA.M

Title : VOC Analysis

Signal : TIC: VU046144.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         | 1.601       | 74            | 81          | 101          | rVB      | 115770         | 128541        | 14.82%          | 1.570%        |
| 2         | 1.919       | 171           | 180         | 192          | rBV      | 80923          | 103882        | 11.97%          | 1.269%        |
| 3         | 2.379       | 313           | 323         | 336          | rVB      | 14704          | 21882         | 2.52%           | 0.267%        |
| 4         | 2.511       | 361           | 364         | 369          | rVB2     | 361            | 286           | 0.03%           | 0.003%        |
| 5         | 2.572       | 371           | 383         | 402          | rBV      | 188865         | 313357        | 36.12%          | 3.827%        |
| 6         | 2.806       | 450           | 456         | 459          | rBV2     | 279            | 255           | 0.03%           | 0.003%        |
| 7         | 2.951       | 498           | 501         | 505          | rVB      | 332            | 245           | 0.03%           | 0.003%        |
| 8         | 3.051       | 522           | 532         | 543          | rBV3     | 2783           | 5267          | 0.61%           | 0.064%        |
| 9         | 3.186       | 564           | 574         | 588          | rVB      | 1822           | 3549          | 0.41%           | 0.043%        |
| 10        | 3.359       | 624           | 628         | 631          | rVV      | 265            | 241           | 0.03%           | 0.003%        |
| 11        | 3.446       | 649           | 655         | 657          | rBV      | 145            | 200           | 0.02%           | 0.002%        |
| 12        | 3.880       | 779           | 790         | 794          | rVV3     | 867            | 1702          | 0.20%           | 0.021%        |
| 13        | 4.642       | 1009          | 1027        | 1068         | rBV3     | 73263          | 276789        | 31.90%          | 3.381%        |
| 14        | 5.067       | 1143          | 1159        | 1183         | rBV      | 141521         | 326598        | 37.64%          | 3.989%        |
| 15        | 5.273       | 1219          | 1223        | 1227         | rVB      | 245            | 198           | 0.02%           | 0.002%        |
| 16        | 5.301       | 1228          | 1232        | 1234         | rBV      | 280            | 209           | 0.02%           | 0.003%        |
| 17        | 5.314       | 1234          | 1236        | 1240         | rVB      | 300            | 206           | 0.02%           | 0.003%        |
| 18        | 5.594       | 1318          | 1323        | 1327         | rBB      | 150            | 205           | 0.02%           | 0.003%        |
| 19        | 5.729       | 1343          | 1365        | 1377         | rBV2     | 319273         | 867596        | 100.00%         | 10.597%       |
| 20        | 5.935       | 1426          | 1429        | 1439         | rBV2     | 158            | 269           | 0.03%           | 0.003%        |
| 21        | 6.054       | 1464          | 1466        | 1470         | rVB2     | 344            | 237           | 0.03%           | 0.003%        |
| 22        | 6.157       | 1492          | 1498        | 1500         | rBV2     | 850            | 785           | 0.09%           | 0.010%        |
| 23        | 6.253       | 1513          | 1528        | 1548         | rBV      | 297301         | 565253        | 65.15%          | 6.904%        |
| 24        | 6.533       | 1603          | 1615        | 1627         | rBV6     | 3214           | 6703          | 0.77%           | 0.082%        |
| 25        | 6.694       | 1651          | 1665        | 1681         | rBV      | 189911         | 369082        | 42.54%          | 4.508%        |
| 26        | 6.935       | 1738          | 1740        | 1744         | rVB      | 286            | 196           | 0.02%           | 0.002%        |
| 27        | 7.218       | 1825          | 1828        | 1832         | rBV      | 254            | 207           | 0.02%           | 0.003%        |
| 28        | 7.568       | 1923          | 1937        | 1950         | rBV      | 111981         | 193926        | 22.35%          | 2.369%        |
| 29        | 7.797       | 1999          | 2008        | 2015         | rBV3     | 1447           | 1934          | 0.22%           | 0.024%        |
| 30        | 7.899       | 2025          | 2040        | 2053         | rBV      | 415826         | 721900        | 83.21%          | 8.817%        |
| 31        | 7.970       | 2053          | 2062        | 2092         | rVB      | 106757         | 190205        | 21.92%          | 2.323%        |
| 32        | 8.182       | 2115          | 2128        | 2141         | rBV      | 76170          | 127564        | 14.70%          | 1.558%        |
| 33        | 8.276       | 2155          | 2157        | 2161         | rVB      | 375            | 275           | 0.03%           | 0.003%        |
| 34        | 8.472       | 2214          | 2218        | 2222         | rVB2     | 272            | 301           | 0.03%           | 0.004%        |
| 35        | 8.552       | 2239          | 2243        | 2246         | rBV      | 248            | 191           | 0.02%           | 0.002%        |
| 36        | 8.636       | 2254          | 2269        | 2301         | rBV      | 253944         | 446432        | 51.46%          | 5.453%        |

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 ALS Vial : 18 Sample Multiplier: 1

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\_U\Method\SFAMULM112921WMA.M  
 Title : VOC Analysis

|    |        |      |      |      |      |        |        |        |        |
|----|--------|------|------|------|------|--------|--------|--------|--------|
| 37 | 8.915  | 2349 | 2356 | 2361 | rBV  | 667    | 908    | 0.10%  | 0.011% |
| 38 | 9.420  | 2498 | 2513 | 2538 | rBV2 | 426751 | 810934 | 93.47% | 9.905% |
| 39 | 9.571  | 2549 | 2560 | 2581 | rVB  | 42948  | 69232  | 7.98%  | 0.846% |
| 40 | 9.694  | 2585 | 2598 | 2616 | rVV  | 105558 | 172948 | 19.93% | 2.112% |
| 41 | 9.780  | 2617 | 2625 | 2636 | rVB2 | 1251   | 1945   | 0.22%  | 0.024% |
| 42 | 9.922  | 2664 | 2669 | 2673 | rVB2 | 404    | 467    | 0.05%  | 0.006% |
| 43 | 10.102 | 2714 | 2725 | 2740 | rBV2 | 44392  | 76764  | 8.85%  | 0.938% |
| 44 | 10.240 | 2761 | 2768 | 2775 | rVB2 | 968    | 1444   | 0.17%  | 0.018% |
| 45 | 10.485 | 2835 | 2844 | 2855 | rBV  | 5407   | 8472   | 0.98%  | 0.103% |
| 46 | 10.568 | 2859 | 2870 | 2885 | rVB  | 72406  | 118997 | 13.72% | 1.453% |
| 47 | 10.671 | 2893 | 2902 | 2911 | rBV4 | 2868   | 4792   | 0.55%  | 0.059% |
| 48 | 10.758 | 2917 | 2929 | 2946 | rVB  | 276201 | 442976 | 51.06% | 5.411% |
| 49 | 10.870 | 2958 | 2964 | 2967 | rBV2 | 551    | 618    | 0.07%  | 0.008% |
| 50 | 10.906 | 2967 | 2975 | 2987 | rVB2 | 2572   | 5027   | 0.58%  | 0.061% |
| 51 | 10.999 | 2987 | 3004 | 3023 | rBV  | 12575  | 26158  | 3.01%  | 0.319% |
| 52 | 11.089 | 3023 | 3032 | 3039 | rBV  | 6864   | 10473  | 1.21%  | 0.128% |
| 53 | 11.295 | 3086 | 3096 | 3105 | rBV3 | 6068   | 9081   | 1.05%  | 0.111% |
| 54 | 11.378 | 3117 | 3122 | 3126 | rBV  | 267    | 267    | 0.03%  | 0.003% |
| 55 | 11.417 | 3129 | 3134 | 3139 | rBV4 | 501    | 544    | 0.06%  | 0.007% |
| 56 | 11.468 | 3139 | 3150 | 3165 | rVB  | 28265  | 43986  | 5.07%  | 0.537% |
| 57 | 11.539 | 3165 | 3172 | 3177 | rBV4 | 947    | 1308   | 0.15%  | 0.016% |
| 58 | 11.571 | 3177 | 3182 | 3184 | rBV3 | 1332   | 1134   | 0.13%  | 0.014% |
| 59 | 11.645 | 3200 | 3205 | 3210 | rBV2 | 311    | 313    | 0.04%  | 0.004% |
| 60 | 11.697 | 3214 | 3221 | 3228 | rBV4 | 1528   | 2243   | 0.26%  | 0.027% |
| 61 | 11.735 | 3228 | 3233 | 3242 | rVB5 | 923    | 1244   | 0.14%  | 0.015% |
| 62 | 11.812 | 3243 | 3257 | 3274 | rBV  | 499894 | 786658 | 90.67% | 9.608% |
| 63 | 11.896 | 3275 | 3283 | 3292 | rVB2 | 9021   | 12028  | 1.39%  | 0.147% |
| 64 | 11.941 | 3292 | 3297 | 3301 | rBV5 | 628    | 774    | 0.09%  | 0.009% |
| 65 | 12.063 | 3329 | 3335 | 3337 | rBV4 | 1188   | 1238   | 0.14%  | 0.015% |
| 66 | 12.092 | 3338 | 3344 | 3359 | rVV3 | 5577   | 9456   | 1.09%  | 0.115% |
| 67 | 12.195 | 3359 | 3376 | 3391 | rVV  | 430767 | 706428 | 81.42% | 8.628% |
| 68 | 12.266 | 3396 | 3398 | 3401 | rVB3 | 411    | 206    | 0.02%  | 0.003% |
| 69 | 12.324 | 3406 | 3416 | 3425 | rVB8 | 3099   | 5827   | 0.67%  | 0.071% |
| 70 | 12.401 | 3427 | 3440 | 3445 | rBV7 | 703    | 1665   | 0.19%  | 0.020% |
| 71 | 12.465 | 3453 | 3460 | 3465 | rBV4 | 1157   | 1796   | 0.21%  | 0.022% |
| 72 | 12.571 | 3485 | 3493 | 3504 | rBV4 | 1695   | 2605   | 0.30%  | 0.032% |
| 73 | 12.681 | 3523 | 3527 | 3530 | rBV2 | 591    | 637    | 0.07%  | 0.008% |
| 74 | 12.774 | 3551 | 3556 | 3564 | rVB3 | 1040   | 1128   | 0.13%  | 0.014% |
| 75 | 12.877 | 3582 | 3588 | 3592 | rBV4 | 566    | 647    | 0.07%  | 0.008% |
| 76 | 12.954 | 3603 | 3612 | 3626 | rBV7 | 3871   | 7413   | 0.85%  | 0.091% |

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 ALS Vial : 18 Sample Multiplier: 1

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\_U\Method\SFAMULM112921WMA.M  
 Title : VOC Analysis

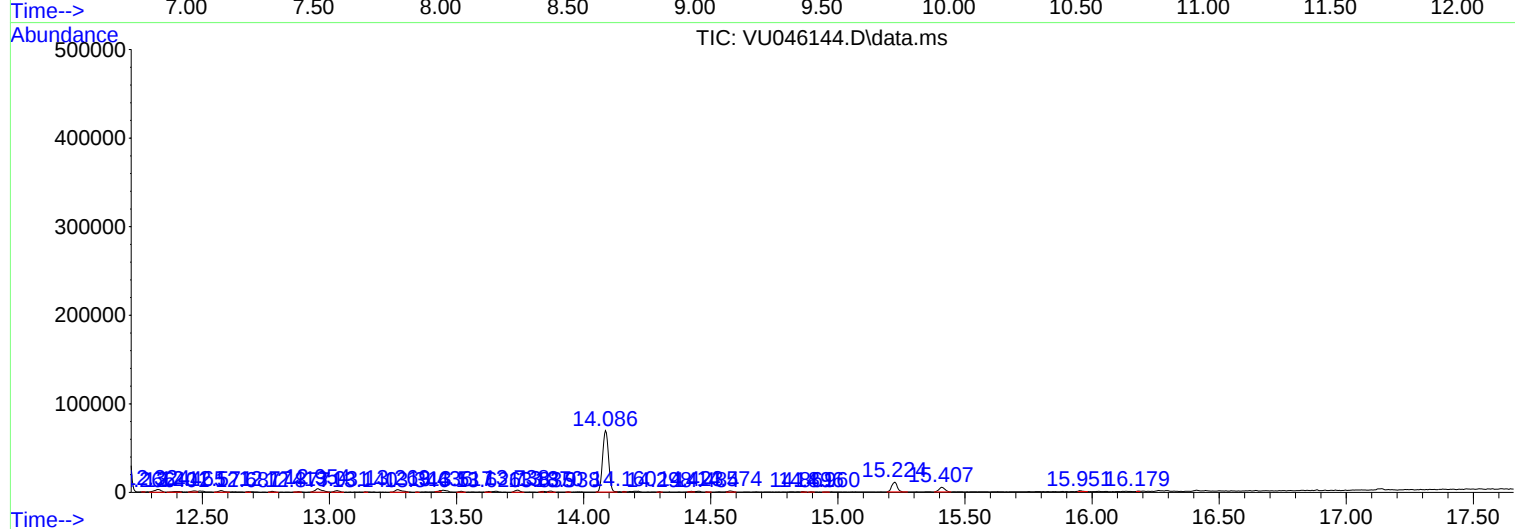
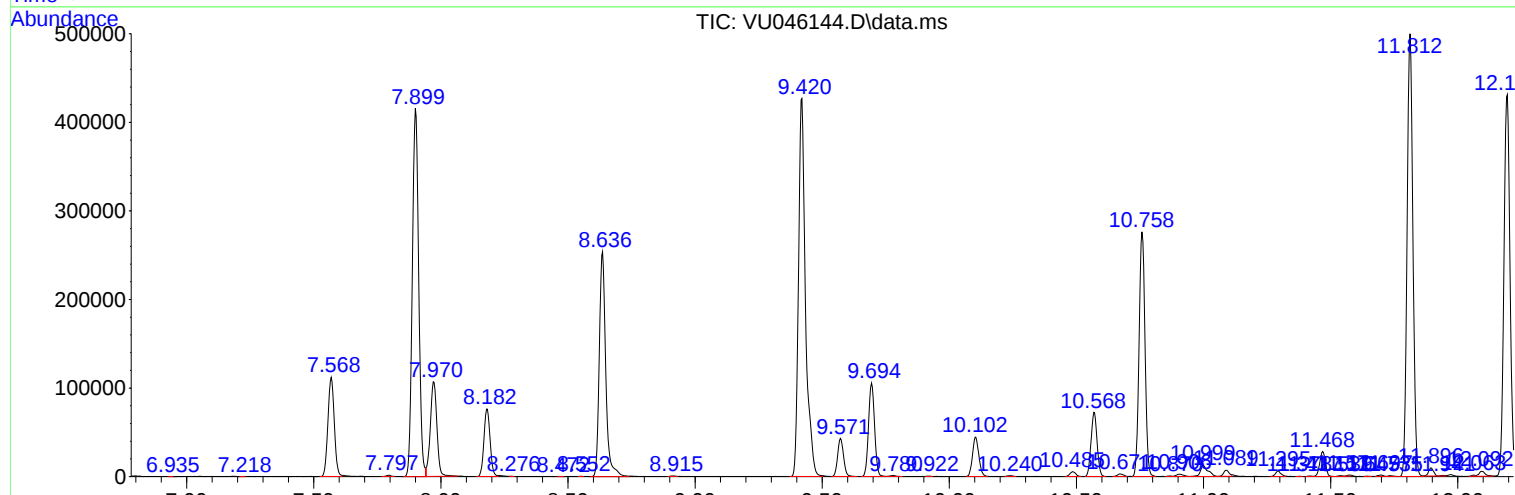
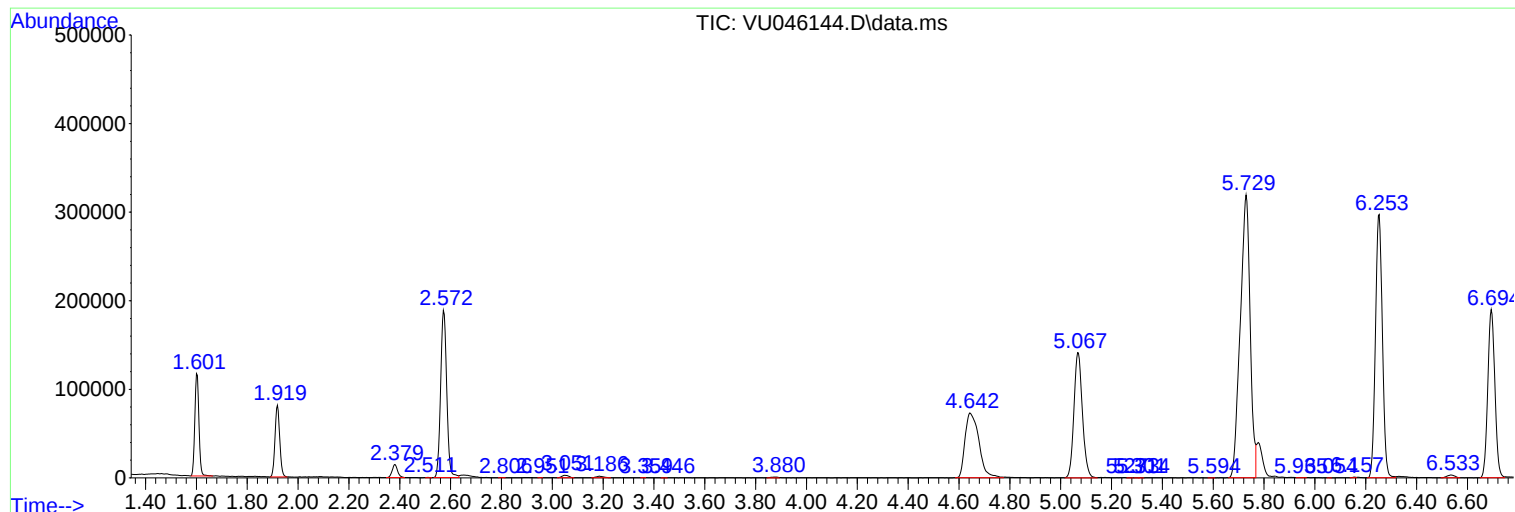
|     |        |      |      |      |      |       |        |        |        |
|-----|--------|------|------|------|------|-------|--------|--------|--------|
| 77  | 13.031 | 3629 | 3636 | 3644 | rVB5 | 1802  | 2511   | 0.29%  | 0.031% |
| 78  | 13.140 | 3668 | 3670 | 3673 | rBV2 | 507   | 326    | 0.04%  | 0.004% |
| 79  | 13.269 | 3700 | 3710 | 3723 | rBV7 | 2772  | 5333   | 0.61%  | 0.065% |
| 80  | 13.346 | 3731 | 3734 | 3736 | rBV3 | 404   | 223    | 0.03%  | 0.003% |
| 81  | 13.436 | 3755 | 3762 | 3763 | rBV4 | 1213  | 1087   | 0.13%  | 0.013% |
| 82  | 13.517 | 3782 | 3787 | 3793 | rVB2 | 940   | 965    | 0.11%  | 0.012% |
| 83  | 13.626 | 3816 | 3821 | 3824 | rBV4 | 816   | 766    | 0.09%  | 0.009% |
| 84  | 13.738 | 3849 | 3856 | 3864 | rVV4 | 2329  | 3186   | 0.37%  | 0.039% |
| 85  | 13.835 | 3882 | 3886 | 3888 | rBV2 | 784   | 628    | 0.07%  | 0.008% |
| 86  | 13.870 | 3893 | 3897 | 3903 | rVB2 | 1185  | 1300   | 0.15%  | 0.016% |
| 87  | 13.938 | 3915 | 3918 | 3922 | rVB2 | 363   | 258    | 0.03%  | 0.003% |
| 88  | 14.086 | 3952 | 3964 | 3978 | rBV  | 69292 | 111805 | 12.89% | 1.366% |
| 89  | 14.160 | 3984 | 3987 | 3990 | rVB2 | 476   | 352    | 0.04%  | 0.004% |
| 90  | 14.298 | 4027 | 4030 | 4034 | rVB2 | 599   | 333    | 0.04%  | 0.004% |
| 91  | 14.423 | 4064 | 4069 | 4073 | rBV4 | 569   | 594    | 0.07%  | 0.007% |
| 92  | 14.484 | 4086 | 4088 | 4094 | rVB3 | 347   | 260    | 0.03%  | 0.003% |
| 93  | 14.574 | 4112 | 4116 | 4124 | rVB4 | 1359  | 1717   | 0.20%  | 0.021% |
| 94  | 14.861 | 4203 | 4205 | 4211 | rVB3 | 599   | 526    | 0.06%  | 0.006% |
| 95  | 14.896 | 4212 | 4216 | 4220 | rBV3 | 356   | 303    | 0.03%  | 0.004% |
| 96  | 14.960 | 4229 | 4236 | 4238 | rBV2 | 293   | 407    | 0.05%  | 0.005% |
| 97  | 15.224 | 4308 | 4318 | 4334 | rVB  | 11076 | 17041  | 1.96%  | 0.208% |
| 98  | 15.407 | 4366 | 4375 | 4387 | rBV2 | 5272  | 8451   | 0.97%  | 0.103% |
| 99  | 15.951 | 4542 | 4544 | 4554 | rVB3 | 1059  | 1093   | 0.13%  | 0.013% |
| 100 | 16.179 | 4613 | 4615 | 4618 | rBV2 | 407   | 314    | 0.04%  | 0.004% |

Sum of corrected areas: 8187228

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ALS Vial : 18 Sample Multiplier: 1

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM112921WMA.M  
Quant Title : VOC Analysis

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU120721\  
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Operator : SY/MD  
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ALS Vial : 18 Sample Multiplier: 1

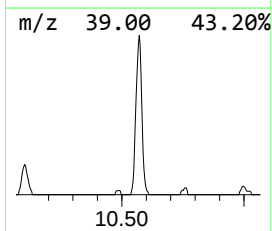
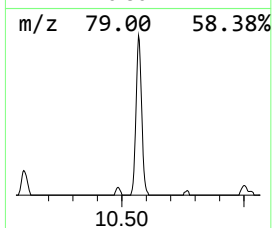
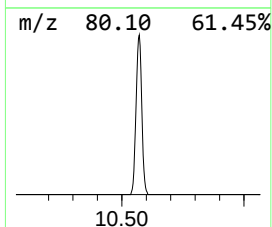
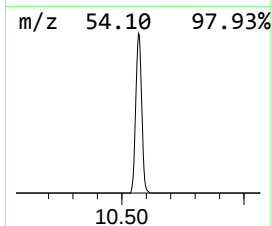
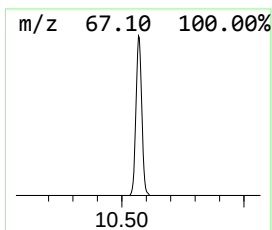
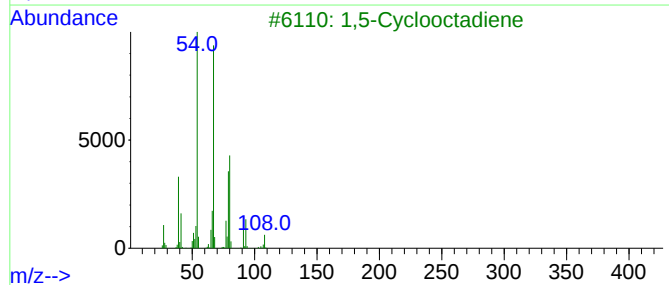
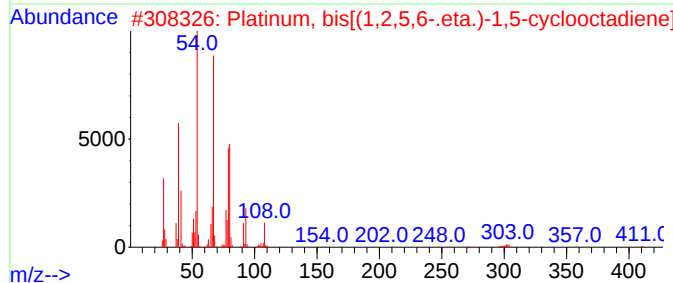
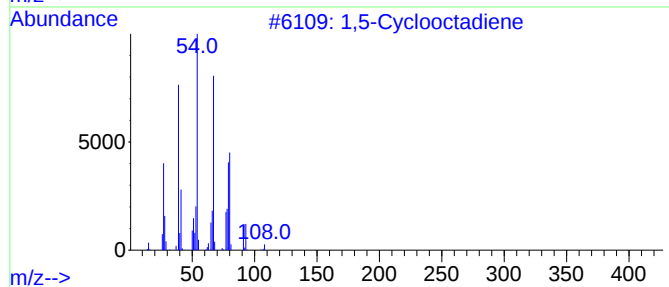
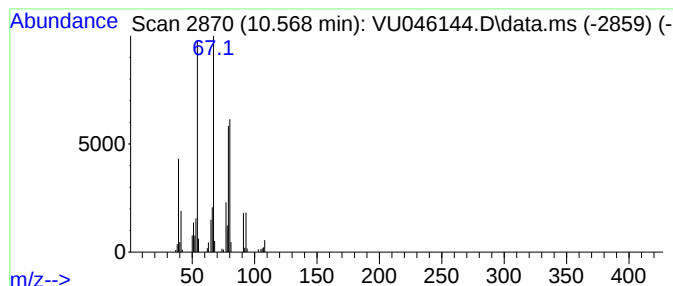
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM112921WMA.M  
Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 2 1,5-Cyclooctadiene Concentration Rank 2

| R.T.   | EstConc   | Area   | Relative to ISTD | R.T.  |
|--------|-----------|--------|------------------|-------|
| 10.568 | 7.34 ug/L | 118997 | Chlorobenzene-d5 | 9.420 |

| Hit# | of                                  | 5 | Tentative ID | MW  | MolForm  | CAS#        | Qual |
|------|-------------------------------------|---|--------------|-----|----------|-------------|------|
| 1    | 1,5-Cyclooctadiene                  |   |              | 108 | C8H12    | 000111-78-4 | 94   |
| 2    | Platinum, bis[(1,2,5,6-.eta.)-1,... |   |              | 411 | C16H24Pt | 012130-66-4 | 87   |
| 3    | 1,5-Cyclooctadiene                  |   |              | 108 | C8H12    | 000111-78-4 | 80   |
| 4    | 1,5-Cyclooctadiene                  |   |              | 108 | C8H12    | 000111-78-4 | 78   |
| 5    | 1,5-Cyclooctadiene                  |   |              | 108 | C8H12    | 000111-78-4 | 74   |



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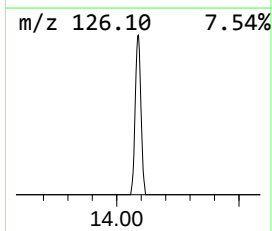
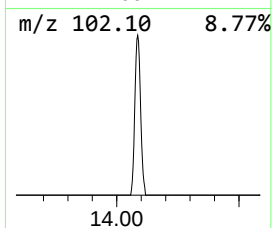
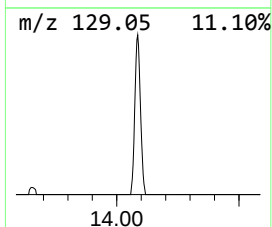
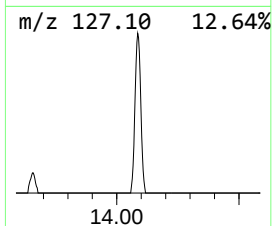
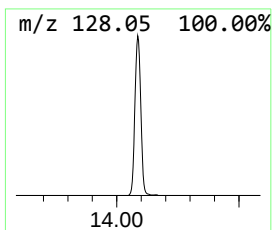
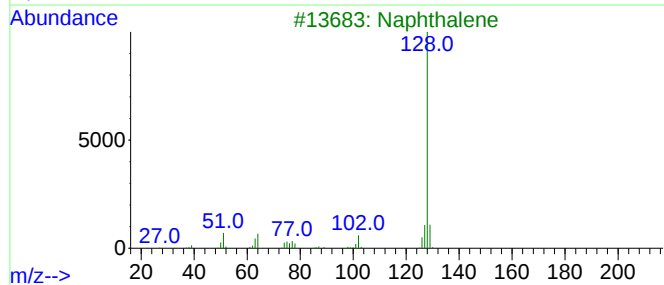
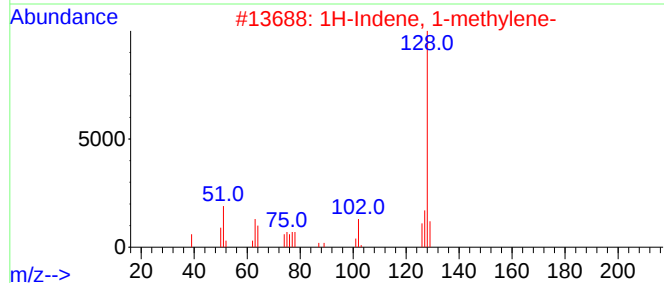
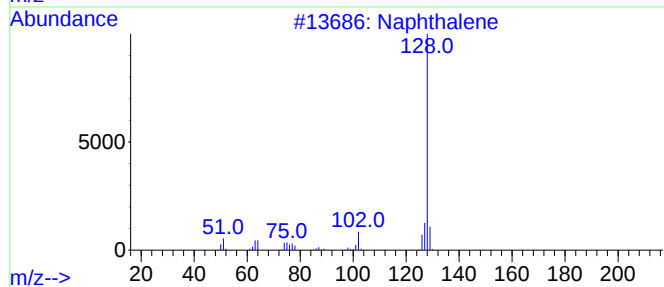
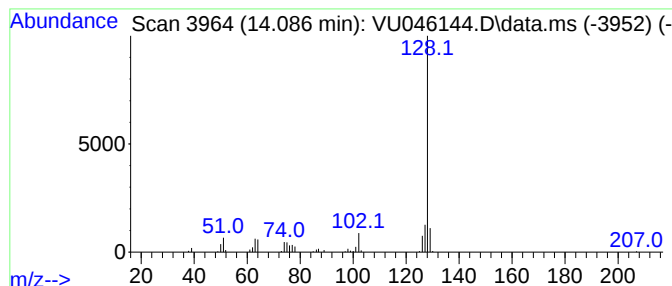
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM112921WMA.M  
Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 3 Azulene Concentration Rank 3

| R.T.   | EstConc   | Area   | Relative to ISTD       | R.T.   |
|--------|-----------|--------|------------------------|--------|
| 14.086 | 7.11 ug/L | 111805 | 1,4-Dichlorobenzene-d4 | 11.813 |

| Hit# | of | 5 | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------|-----|---------|-------------|------|
| 1    |    |   | Naphthalene             | 128 | C10H8   | 000091-20-3 | 95   |
| 2    |    |   | 1H-Indene, 1-methylene- | 128 | C10H8   | 002471-84-3 | 95   |
| 3    |    |   | Naphthalene             | 128 | C10H8   | 000091-20-3 | 94   |
| 4    |    |   | Azulene                 | 128 | C10H8   | 000275-51-4 | 91   |
| 5    |    |   | Azulene                 | 128 | C10H8   | 000275-51-4 | 91   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU120721\  
Data File : VU046144.D  
Acq On : 07 Dec 2021 16:35  
Operator : SY/MD  
Sample : M4960-11DL 40X  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 18 Sample Multiplier: 1

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM112921WMA.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 |
| 1,5-Cyclooctadiene | 10.568 | 7.3     | ug/L  | 118997   | 2                     | 9.420  | 810934 | 50.0 |
| Azulene            | 14.086 | 7.1     | ug/L  | 111805   | 3                     | 11.813 | 786658 | 50.0 |