

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV031619\  
 Data File : VV009715.D  
 Acq On : 16 Mar 2019 03:41  
 Operator : SY/MD  
 Sample : K1936-02  
 Misc : 5.62g/5.0mL/100uL/5.0mL/MSVOA\_V/MEOH  
 ALS Vial : 33 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BF0T9

## 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\_V\METHOD\SOMVLM031219WMA.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         | 1.113       | 3             | 7           | 13           | rVB3     | 2510           | 2388          | 0.00%           | 0.002%        |
| 2         | 1.203       | 27            | 35          | 39           | rBV3     | 3986           | 5189          | 0.00%           | 0.003%        |
| 3         | 1.319       | 60            | 71          | 87           | rVB2     | 62971          | 75270         | 0.05%           | 0.048%        |
| 4         | 1.454       | 100           | 113         | 120          | rBV3     | 12389          | 28709         | 0.02%           | 0.018%        |
| 5         | 1.547       | 137           | 142         | 155          | rVB      | 38978          | 46640         | 0.03%           | 0.030%        |
| 6         | 2.100       | 304           | 314         | 328          | rBV      | 160906         | 233916        | 0.16%           | 0.149%        |
| 7         | 2.290       | 370           | 373         | 382          | rVB4     | 870            | 934           | 0.00%           | 0.001%        |
| 8         | 2.473       | 427           | 430         | 433          | rBV2     | 749            | 564           | 0.00%           | 0.000%        |
| 9         | 2.515       | 438           | 443         | 444          | rBV2     | 1292           | 731           | 0.00%           | 0.000%        |
| 10        | 2.621       | 474           | 476         | 481          | rVB      | 638            | 488           | 0.00%           | 0.000%        |
| 11        | 2.653       | 481           | 486         | 489          | rBV3     | 547            | 599           | 0.00%           | 0.000%        |
| 12        | 2.775       | 516           | 524         | 534          | rVB8     | 3532           | 6763          | 0.00%           | 0.004%        |
| 13        | 2.859       | 544           | 550         | 552          | rBV      | 670            | 714           | 0.00%           | 0.000%        |
| 14        | 3.045       | 604           | 608         | 610          | rBV3     | 1091           | 910           | 0.00%           | 0.001%        |
| 15        | 3.499       | 745           | 749         | 753          | rBV2     | 901            | 980           | 0.00%           | 0.001%        |
| 16        | 3.621       | 783           | 787         | 794          | rVB3     | 513            | 535           | 0.00%           | 0.000%        |
| 17        | 3.692       | 806           | 809         | 811          | rBV      | 797            | 557           | 0.00%           | 0.000%        |
| 18        | 3.737       | 819           | 823         | 826          | rBV      | 671            | 571           | 0.00%           | 0.000%        |
| 19        | 3.798       | 831           | 842         | 849          | rVV4     | 1356           | 2478          | 0.00%           | 0.002%        |
| 20        | 3.836       | 852           | 854         | 860          | rVB      | 655            | 619           | 0.00%           | 0.000%        |
| 21        | 3.955       | 873           | 891         | 934          | rBV2     | 504147         | 1277906       | 0.88%           | 0.815%        |
| 22        | 4.209       | 965           | 970         | 973          | rVB2     | 819            | 772           | 0.00%           | 0.000%        |
| 23        | 4.273       | 983           | 990         | 994          | rVB2     | 856            | 1061          | 0.00%           | 0.001%        |
| 24        | 4.296       | 994           | 997         | 1000         | rBV      | 891            | 616           | 0.00%           | 0.000%        |
| 25        | 4.399       | 1012          | 1029        | 1054         | rBV      | 88731          | 231588        | 0.16%           | 0.148%        |
| 26        | 4.634       | 1095          | 1102        | 1105         | rBV      | 529            | 701           | 0.00%           | 0.000%        |
| 27        | 4.708       | 1115          | 1125        | 1127         | rBV6     | 3462           | 4763          | 0.00%           | 0.003%        |
| 28        | 4.794       | 1148          | 1152        | 1153         | rBV2     | 948            | 628           | 0.00%           | 0.000%        |
| 29        | 4.817       | 1157          | 1159        | 1165         | rVB      | 1313           | 942           | 0.00%           | 0.001%        |
| 30        | 4.862       | 1170          | 1173        | 1179         | rVB      | 689            | 597           | 0.00%           | 0.000%        |
| 31        | 4.939       | 1191          | 1197        | 1199         | rBV3     | 1752           | 1822          | 0.00%           | 0.001%        |
| 32        | 5.090       | 1227          | 1244        | 1273         | rBV2     | 240286         | 576849        | 0.40%           | 0.368%        |
| 33        | 5.193       | 1273          | 1276        | 1278         | rBV3     | 726            | 600           | 0.00%           | 0.000%        |
| 34        | 5.293       | 1302          | 1307        | 1312         | rBV6     | 1010           | 1305          | 0.00%           | 0.001%        |

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 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\_V\METHOD\SOMVLM031219WMA.M  
 Title : VOC Analysis

|    |       |      |      |      |      |          |           |         |         |
|----|-------|------|------|------|------|----------|-----------|---------|---------|
| 35 | 5.367 | 1317 | 1330 | 1332 | rBV5 | 2244     | 3784      | 0.00%   | 0.002%  |
| 36 | 5.447 | 1349 | 1355 | 1360 | rBV  | 874      | 813       | 0.00%   | 0.001%  |
| 37 | 5.524 | 1372 | 1379 | 1394 | rVB6 | 3931     | 8111      | 0.01%   | 0.005%  |
| 38 | 5.666 | 1408 | 1423 | 1445 | rBV  | 196080   | 415680    | 0.29%   | 0.265%  |
| 39 | 5.817 | 1463 | 1470 | 1477 | rBV3 | 809      | 1264      | 0.00%   | 0.001%  |
| 40 | 5.958 | 1499 | 1514 | 1532 | rBV  | 623897   | 1223532   | 0.84%   | 0.780%  |
| 41 | 6.116 | 1550 | 1563 | 1576 | rBV2 | 121944   | 259191    | 0.18%   | 0.165%  |
| 42 | 6.235 | 1596 | 1600 | 1601 | rBV3 | 708      | 560       | 0.00%   | 0.000%  |
| 43 | 6.248 | 1601 | 1604 | 1606 | rVV5 | 971      | 622       | 0.00%   | 0.000%  |
| 44 | 6.296 | 1616 | 1619 | 1622 | rBV2 | 626      | 517       | 0.00%   | 0.000%  |
| 45 | 6.367 | 1639 | 1641 | 1645 | rVB  | 871      | 545       | 0.00%   | 0.000%  |
| 46 | 6.402 | 1645 | 1652 | 1661 | rBV6 | 2261     | 3352      | 0.00%   | 0.002%  |
| 47 | 6.441 | 1661 | 1664 | 1666 | rBV  | 730      | 490       | 0.00%   | 0.000%  |
| 48 | 6.502 | 1676 | 1683 | 1691 | rVV5 | 1779     | 3291      | 0.00%   | 0.002%  |
| 49 | 6.672 | 1731 | 1736 | 1737 | rBV3 | 1292     | 1068      | 0.00%   | 0.001%  |
| 50 | 6.884 | 1789 | 1802 | 1803 | rBV4 | 1513     | 2237      | 0.00%   | 0.001%  |
| 51 | 6.955 | 1815 | 1824 | 1833 | rBV7 | 6294     | 11887     | 0.01%   | 0.008%  |
| 52 | 7.032 | 1837 | 1848 | 1867 | rVB2 | 64564    | 127313    | 0.09%   | 0.081%  |
| 53 | 7.222 | 1902 | 1907 | 1913 | rVB3 | 1028     | 1492      | 0.00%   | 0.001%  |
| 54 | 7.299 | 1922 | 1931 | 1939 | rBV7 | 8040     | 16291     | 0.01%   | 0.010%  |
| 55 | 7.363 | 1939 | 1951 | 1969 | rVB  | 246920   | 472634    | 0.33%   | 0.301%  |
| 56 | 7.521 | 1997 | 2000 | 2001 | rBV  | 979      | 605       | 0.00%   | 0.000%  |
| 57 | 7.608 | 2018 | 2027 | 2036 | rBV2 | 14778    | 23339     | 0.02%   | 0.015%  |
| 58 | 7.669 | 2036 | 2046 | 2066 | rVB2 | 45291    | 99382     | 0.07%   | 0.063%  |
| 59 | 7.836 | 2087 | 2098 | 2109 | rVB7 | 3794     | 7528      | 0.01%   | 0.005%  |
| 60 | 7.884 | 2111 | 2113 | 2117 | rVB  | 777      | 542       | 0.00%   | 0.000%  |
| 61 | 7.949 | 2127 | 2133 | 2136 | rBV2 | 933      | 1073      | 0.00%   | 0.001%  |
| 62 | 8.048 | 2140 | 2164 | 2186 | rBV3 | 58827101 | 145058722 | 100.00% | 92.499% |
| 63 | 8.395 | 2262 | 2272 | 2283 | rBV3 | 26926    | 47561     | 0.03%   | 0.030%  |
| 64 | 8.553 | 2311 | 2321 | 2330 | rVB7 | 4995     | 9070      | 0.01%   | 0.006%  |
| 65 | 8.611 | 2330 | 2339 | 2342 | rBV4 | 8681     | 12472     | 0.01%   | 0.008%  |
| 66 | 8.711 | 2362 | 2370 | 2380 | rVB4 | 17754    | 30264     | 0.02%   | 0.019%  |
| 67 | 8.833 | 2396 | 2408 | 2417 | rBV3 | 20503    | 36412     | 0.03%   | 0.023%  |
| 68 | 8.900 | 2417 | 2429 | 2462 | rVV  | 321480   | 582830    | 0.40%   | 0.372%  |
| 69 | 9.061 | 2464 | 2479 | 2488 | rVB4 | 13535    | 30678     | 0.02%   | 0.020%  |
| 70 | 9.148 | 2495 | 2506 | 2510 | rBV8 | 14009    | 25471     | 0.02%   | 0.016%  |
| 71 | 9.186 | 2512 | 2518 | 2528 | rVV4 | 41402    | 80185     | 0.06%   | 0.051%  |

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Instrument :  
MSVOA\_V  
ClientSampleId :  
BF0T9

## Integration Parameters: LSCINT.P

Integrator: RTE  
Smoothing : OFF  
Sampling : 1  
Start Thrs: 0.2  
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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\_V\METHOD\SOMVLM031219WMA.M  
Title : VOC Analysis

|     |        |      |      |      |      |        |        |       |        |
|-----|--------|------|------|------|------|--------|--------|-------|--------|
| 72  | 9.248  | 2529 | 2537 | 2562 | rVB3 | 68506  | 119802 | 0.08% | 0.076% |
| 73  | 9.363  | 2562 | 2573 | 2581 | rBV8 | 5622   | 10351  | 0.01% | 0.007% |
| 74  | 9.521  | 2606 | 2622 | 2631 | rBV7 | 20149  | 46339  | 0.03% | 0.030% |
| 75  | 9.595  | 2637 | 2645 | 2650 | rBV2 | 17025  | 25958  | 0.02% | 0.017% |
| 76  | 9.756  | 2677 | 2695 | 2706 | rBV3 | 47985  | 95056  | 0.07% | 0.061% |
| 77  | 9.846  | 2715 | 2723 | 2732 | rBV5 | 34480  | 61367  | 0.04% | 0.039% |
| 78  | 10.058 | 2785 | 2789 | 2797 | rVB6 | 7812   | 10749  | 0.01% | 0.007% |
| 79  | 10.267 | 2844 | 2854 | 2872 | rVB  | 254000 | 469972 | 0.32% | 0.300% |
| 80  | 10.402 | 2889 | 2896 | 2902 | rBV  | 25790  | 39235  | 0.03% | 0.025% |
| 81  | 10.495 | 2917 | 2925 | 2938 | rBV  | 72605  | 157760 | 0.11% | 0.101% |
| 82  | 10.620 | 2958 | 2964 | 2975 | rVB2 | 154006 | 214923 | 0.15% | 0.137% |
| 83  | 10.784 | 3006 | 3015 | 3033 | rVB  | 67072  | 133197 | 0.09% | 0.085% |
| 84  | 10.923 | 3051 | 3058 | 3063 | rBV  | 64092  | 96786  | 0.07% | 0.062% |
| 85  | 10.961 | 3064 | 3070 | 3081 | rVB  | 149568 | 230692 | 0.16% | 0.147% |
| 86  | 11.202 | 3138 | 3145 | 3151 | rBV2 | 43739  | 63395  | 0.04% | 0.040% |
| 87  | 11.299 | 3165 | 3175 | 3184 | rBV  | 418557 | 657456 | 0.45% | 0.419% |
| 88  | 11.383 | 3194 | 3201 | 3208 | rBV2 | 95929  | 140959 | 0.10% | 0.090% |
| 89  | 11.508 | 3235 | 3240 | 3252 | rVB3 | 44377  | 64024  | 0.04% | 0.041% |
| 90  | 11.595 | 3255 | 3267 | 3269 | rBV4 | 41255  | 77475  | 0.05% | 0.049% |
| 91  | 11.675 | 3283 | 3292 | 3308 | rVB2 | 432695 | 807235 | 0.56% | 0.515% |
| 92  | 11.836 | 3334 | 3342 | 3348 | rBV  | 212848 | 300655 | 0.21% | 0.192% |
| 93  | 11.961 | 3374 | 3381 | 3383 | rBV  | 57430  | 68816  | 0.05% | 0.044% |
| 94  | 12.167 | 3438 | 3445 | 3451 | rBV2 | 68969  | 108324 | 0.07% | 0.069% |
| 95  | 12.418 | 3515 | 3523 | 3529 | rBV5 | 73615  | 133607 | 0.09% | 0.085% |
| 96  | 12.514 | 3546 | 3553 | 3561 | rBV4 | 125589 | 196246 | 0.14% | 0.125% |
| 97  | 12.932 | 3676 | 3683 | 3698 | rVB2 | 365530 | 560062 | 0.39% | 0.357% |
| 98  | 13.090 | 3725 | 3732 | 3744 | rBV4 | 130632 | 245202 | 0.17% | 0.156% |
| 99  | 13.948 | 3993 | 3999 | 4016 | rVB5 | 183469 | 346840 | 0.24% | 0.221% |
| 100 | 15.865 | 4589 | 4595 | 4602 | rBV  | 173039 | 228326 | 0.16% | 0.146% |

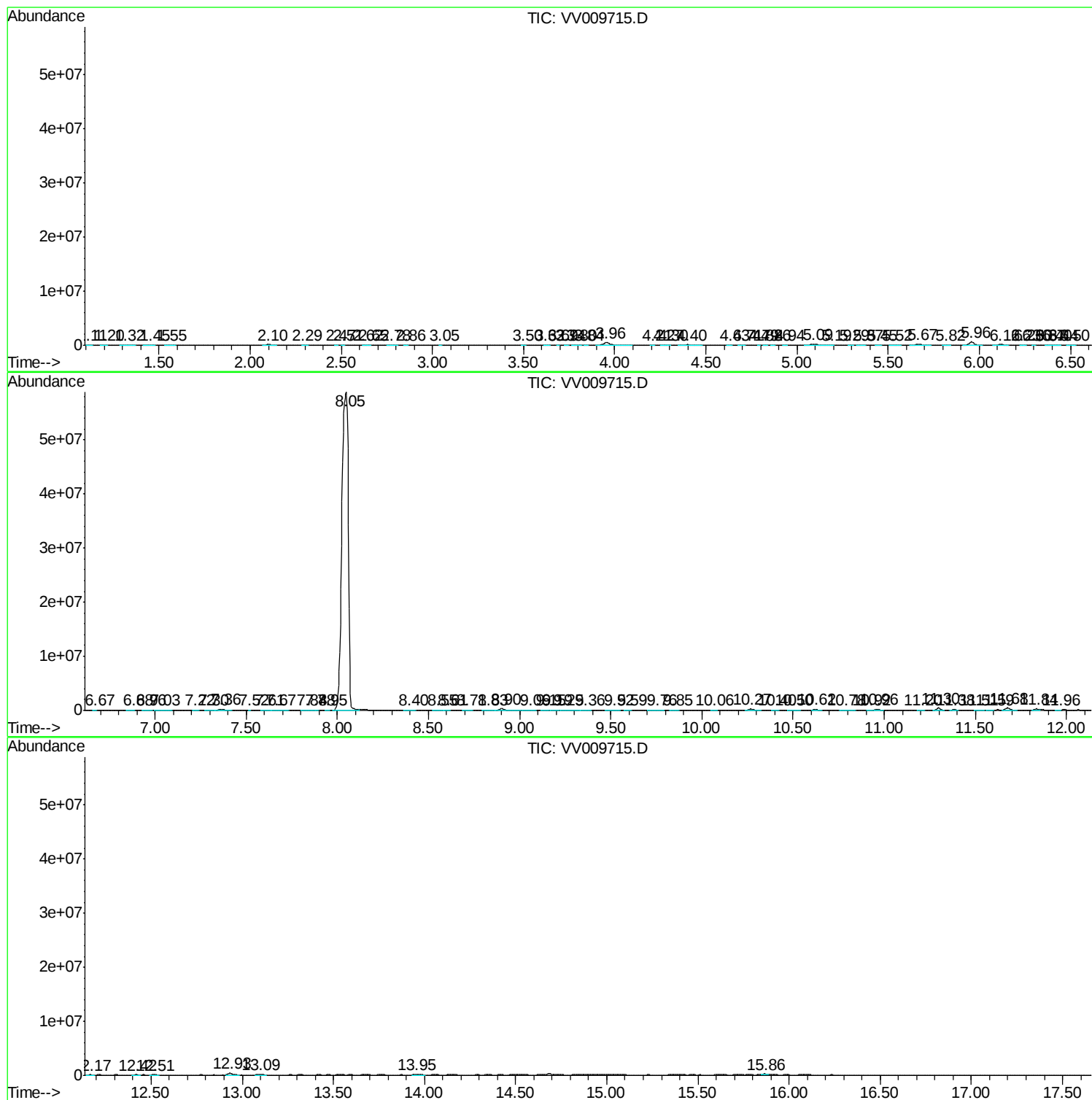
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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM031219WMA.M  
Quant Title : VOC Analysis

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



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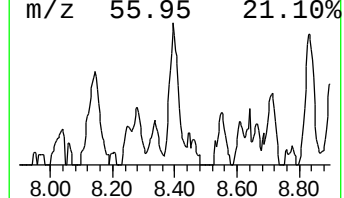
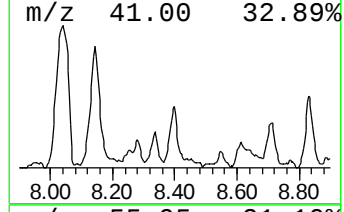
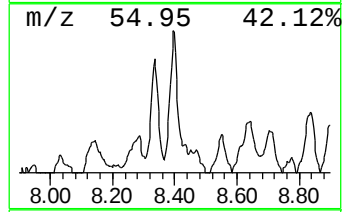
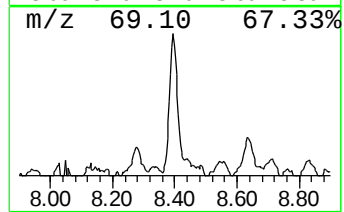
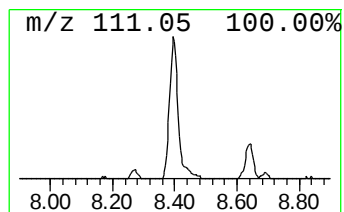
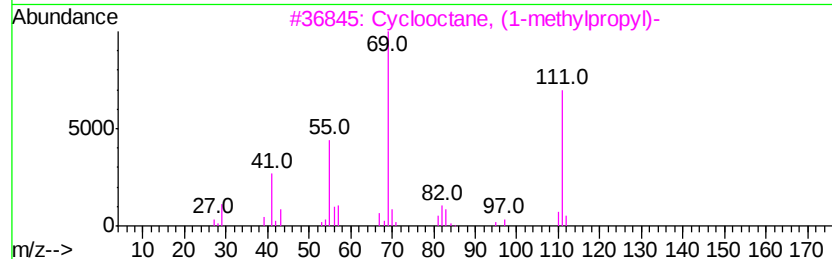
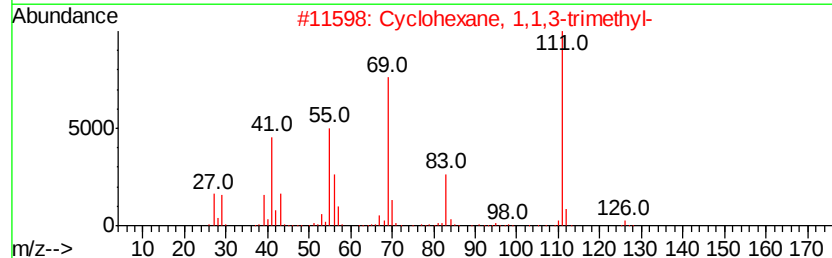
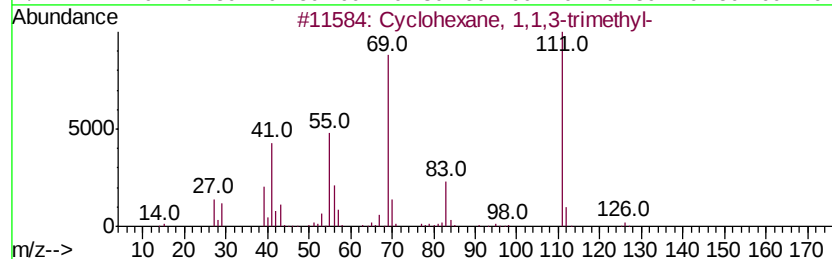
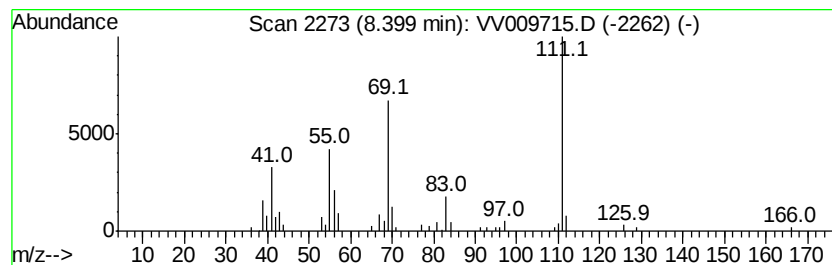
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 3 (DEL) Alkane: Cyclic8.40 Concentration Rank 23

| R.T. | EstConc   | Area  | Relative to ISTD | R.T. |
|------|-----------|-------|------------------|------|
| 8.40 | 4.08 ug/L | 47561 | Chlorobenzene-d5 | 8.90 |

| Hit# | of | 5 | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|---|--------------------------------|-----|---------|-------------|------|
| 1    |    |   | Cyclohexane, 1,1,3-trimethyl-  | 126 | C9H18   | 003073-66-3 | 83   |
| 2    |    |   | Cyclohexane, 1,1,3-trimethyl-  | 126 | C9H18   | 003073-66-3 | 64   |
| 3    |    |   | Cyclooctane, (1-methylpropyl)- | 168 | C12H24  | 016538-89-9 | 64   |
| 4    |    |   | Cyclooctane, (1-methylpropyl)- | 168 | C12H24  | 016538-89-9 | 64   |
| 5    |    |   | Cyclohexane, 1,1,3-trimethyl-  | 126 | C9H18   | 003073-66-3 | 64   |



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 Quant Title : VOC Analysis

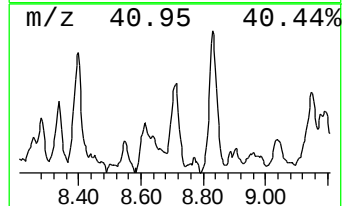
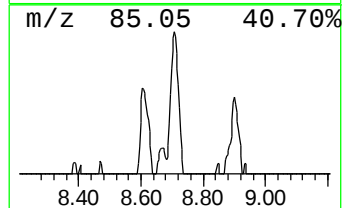
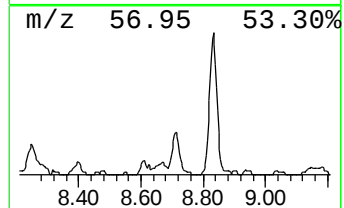
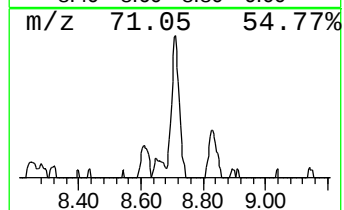
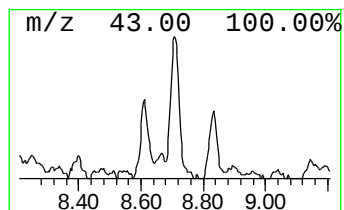
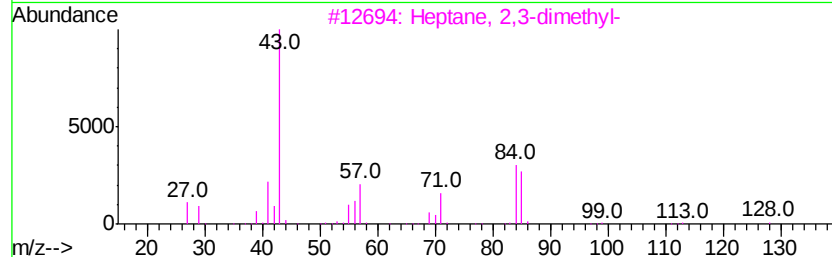
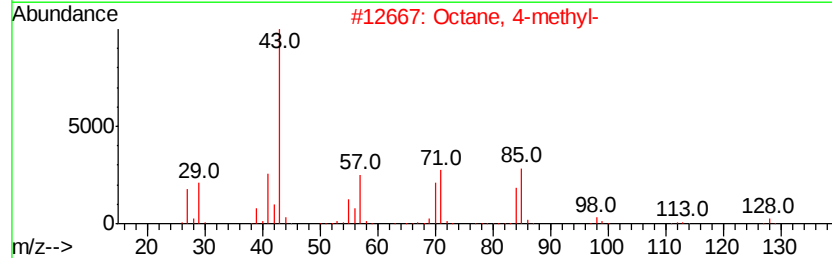
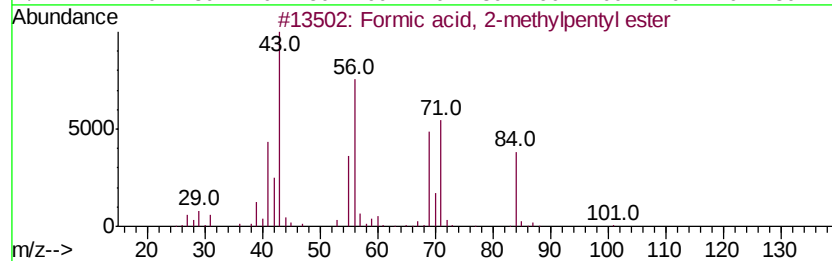
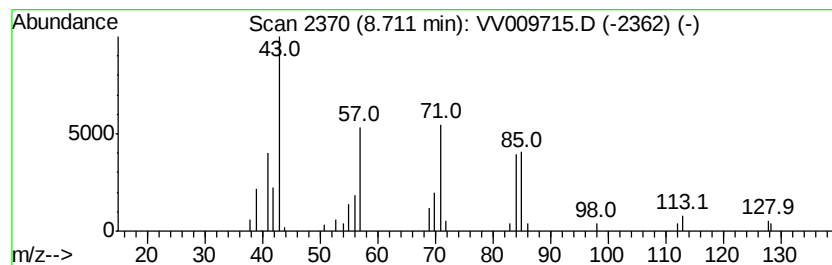
TIC Library : C:\DATABASE\NIST11.L  
 TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
 Peak Number 4 Formic acid, 2-methylpentyl... Concentration Rank 28

| R.T. | EstConc   | Area  | Relative to ISTD | R.T. |
|------|-----------|-------|------------------|------|
| 8.71 | 2.60 ug/L | 30264 | Chlorobenzene-d5 | 8.90 |

| Hit# | of | Tentative ID                      | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------------------|-----|---------|-------------|------|
| 1    | 5  | Formic acid, 2-methylpentyl ester | 130 | C7H14O2 | 381670-34-4 | 50   |
| 2    |    | Octane, 4-methyl-                 | 128 | C9H20   | 002216-34-4 | 49   |
| 3    |    | Heptane, 2,3-dimethyl-            | 128 | C9H20   | 003074-71-3 | 47   |
| 4    |    | Heptane, 2,4-dimethyl-            | 128 | C9H20   | 002213-23-2 | 47   |
| 5    |    | Nonane                            | 128 | C9H20   | 000111-84-2 | 47   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV031619\  
Data File : VV009715.D  
Acq On : 16 Mar 2019 03:41  
Operator : SY/MD  
Sample : K1936-02  
Misc : 5.62µ/5.0mL/100µL/5.0mL/MSVOA\_V/MEOH  
ALS Vial : 33 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
BF0T9

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM031219WMA.M  
Quant Title : VOC Analysis

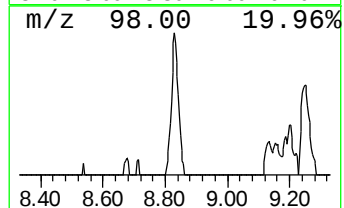
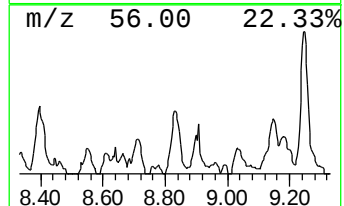
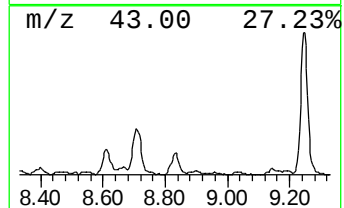
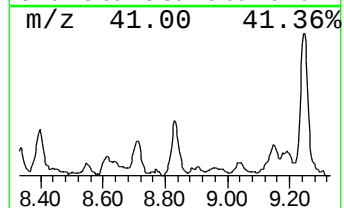
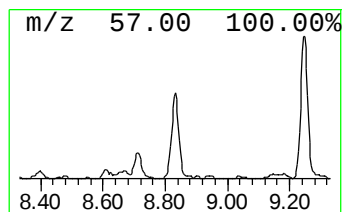
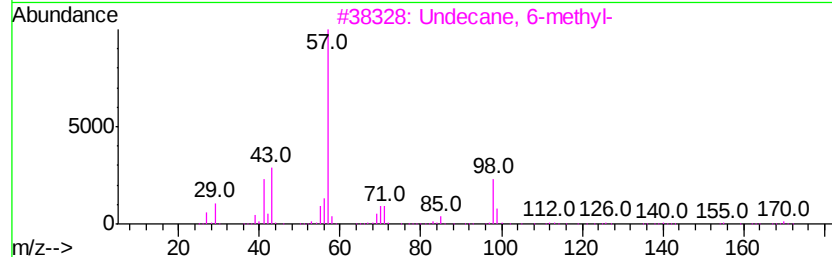
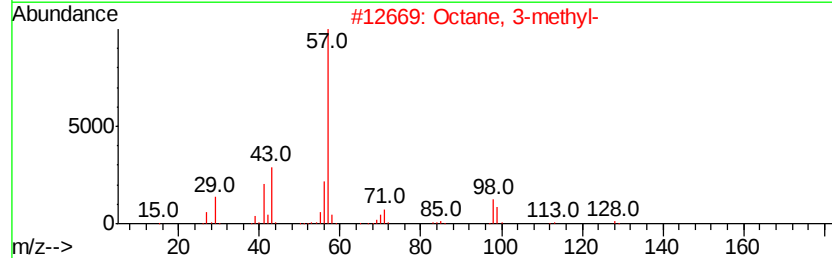
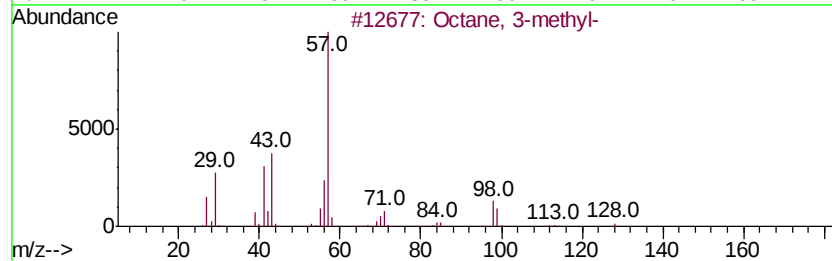
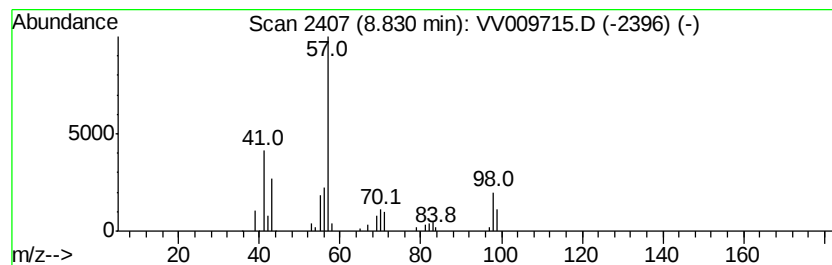
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 (DEL) Alkane: Straight-Chai... Concentration Rank 26

| R.T. | EstConc   | Area  | Relative to ISTD | R.T. |
|------|-----------|-------|------------------|------|
| 8.83 | 3.12 ug/L | 36412 | Chlorobenzene-d5 | 8.90 |

| Hit# | of | Tentative ID                       | MW  | MolForm  | CAS#         | Qual |
|------|----|------------------------------------|-----|----------|--------------|------|
| 1    | 5  | Octane, 3-methyl-                  | 128 | C9H20    | 002216-33-3  | 64   |
| 2    |    | Octane, 3-methyl-                  | 128 | C9H20    | 002216-33-3  | 59   |
| 3    |    | Undecane, 6-methyl-                | 170 | C12H26   | 017302-33-9  | 59   |
| 4    |    | Oxalic acid, isobutyl heptyl ester | 244 | C13H24O4 | 1000309-37-2 | 53   |
| 5    |    | 2-Decene, 5-methyl-, (Z)-          | 154 | C11H22   | 074645-86-6  | 53   |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV031619\  
Data File : VV009715.D  
Acq On : 16 Mar 2019 03:41  
Operator : SY/MD  
Sample : K1936-02  
Misc : 5.62uL/5.0mL/100uL/5.0mL/MSVOA\_V/MEOH  
ALS Vial : 33 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
BF0T9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM031219WMA.M  
Quant Title : VOC Analysis

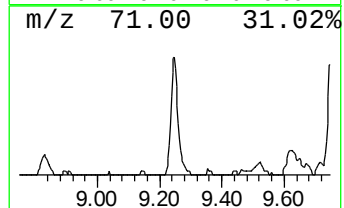
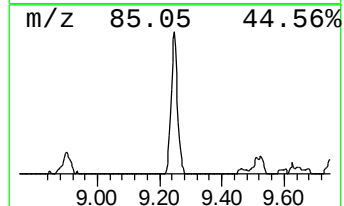
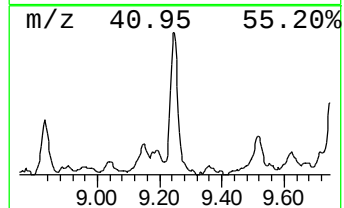
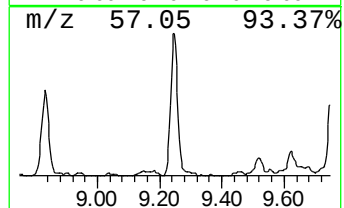
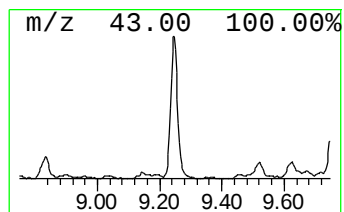
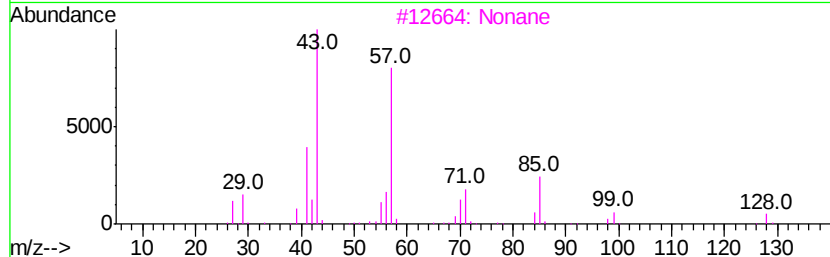
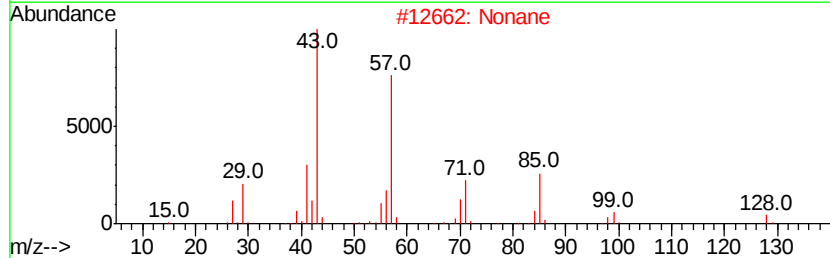
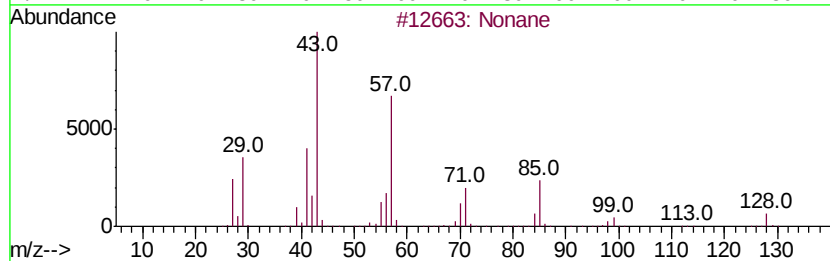
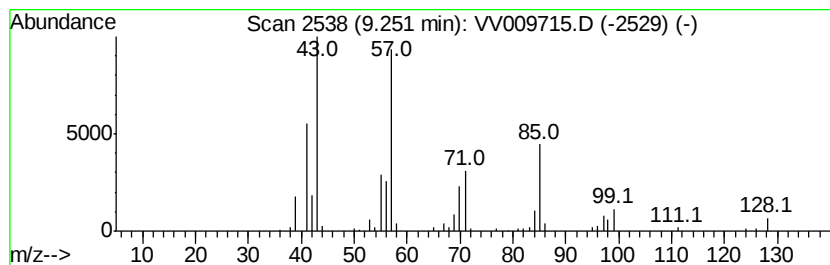
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TIC Integration Parameters: LSCINT.P

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Peak Number 6 (DEL) Alkane: Straight-Chai... Concentration Rank 12

| R.T. | EstConc    | Area   | Relative to ISTD | R.T. |
|------|------------|--------|------------------|------|
| 9.25 | 10.28 ug/L | 119802 | Chlorobenzene-d5 | 8.90 |

| Hit# | of | Tentative ID             | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------|-----|---------|-------------|------|
| 1    | 5  | Nonane                   | 128 | C9H20   | 000111-84-2 | 94   |
| 2    |    | Nonane                   | 128 | C9H20   | 000111-84-2 | 91   |
| 3    |    | Nonane                   | 128 | C9H20   | 000111-84-2 | 80   |
| 4    |    | Octane, 2,4,6-trimethyl- | 156 | C11H24  | 062016-37-9 | 53   |
| 5    |    | Hexane, 2,4-dimethyl-    | 114 | C8H18   | 000589-43-5 | 50   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV031619\  
Data File : VV009715.D  
Acq On : 16 Mar 2019 03:41  
Operator : SY/MD  
Sample : K1936-02  
Misc : 5.62µ/5.0mL/100µL/5.0mL/MSVOA\_V/MEOH  
ALS Vial : 33 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
BF0T9

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM031219WMA.M  
Quant Title : VOC Analysis

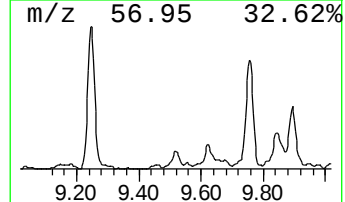
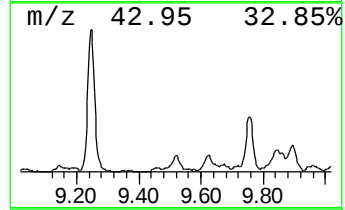
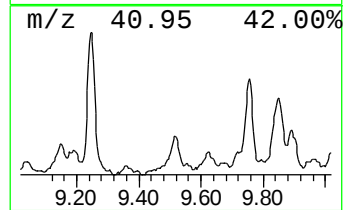
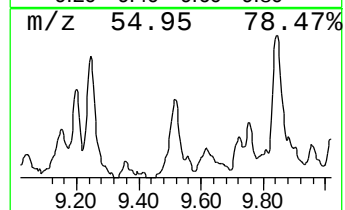
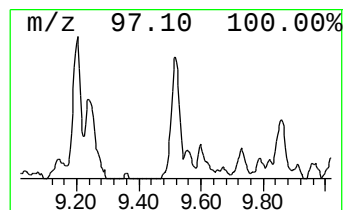
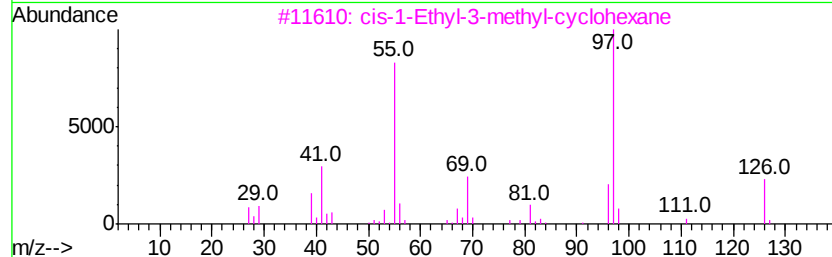
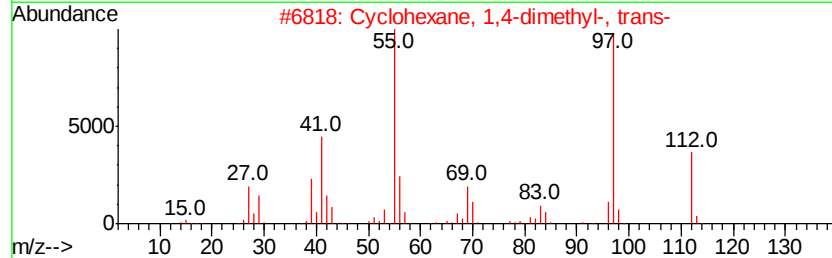
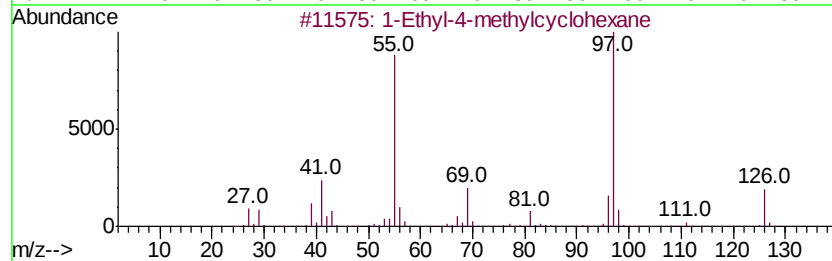
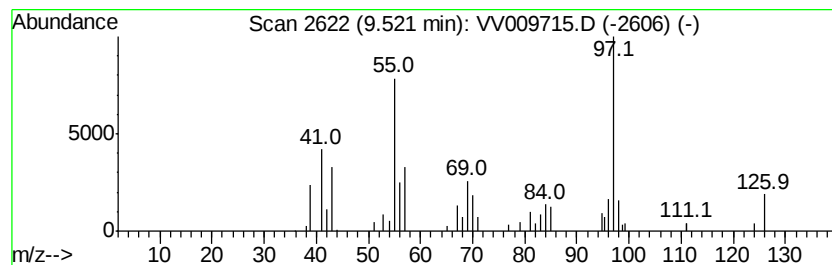
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 (DEL) Alkane: Cyclic9.52 Concentration Rank 24

| R.T. | EstConc   | Area  | Relative to ISTD | R.T. |
|------|-----------|-------|------------------|------|
| 9.52 | 3.98 ug/L | 46339 | Chlorobenzene-d5 | 8.90 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | 1-Ethyl-4-methylcyclohexane         | 126 | C9H18   | 003728-56-1 | 64   |
| 2    |    | Cyclohexane, 1,4-dimethyl-, trans-  | 112 | C8H16   | 002207-04-7 | 59   |
| 3    |    | cis-1-Ethyl-3-methyl-cyclohexane    | 126 | C9H18   | 019489-10-2 | 58   |
| 4    |    | Cyclohexane, 1-ethyl-2-methyl-, ... | 126 | C9H18   | 004923-78-8 | 58   |
| 5    |    | 1-Ethyl-3-methylcyclohexane (c,t)   | 126 | C9H18   | 003728-55-0 | 58   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_V\DATA\VV031619\  
Data File : VV009715.D  
Acq On : 16 Mar 2019 03:41  
Operator : SY/MD  
Sample : K1936-02  
Misc : 5.62g/5.0mL/100uL/5.0mL/MSVOA\_V/MEOH  
ALS Vial : 33 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
BF0T9

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM031219WMA.M  
Quant Title : VOC Analysis

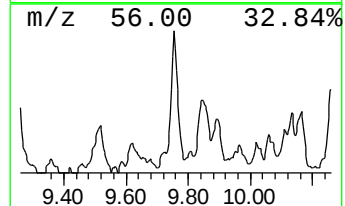
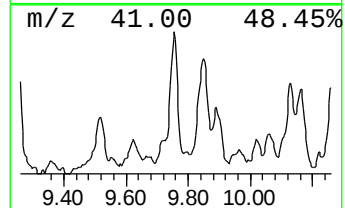
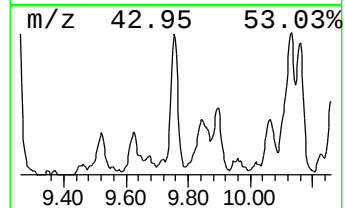
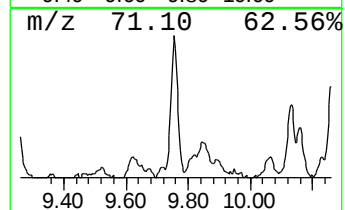
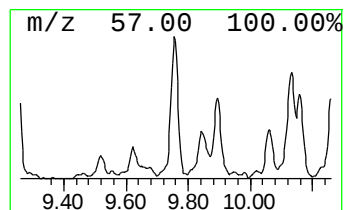
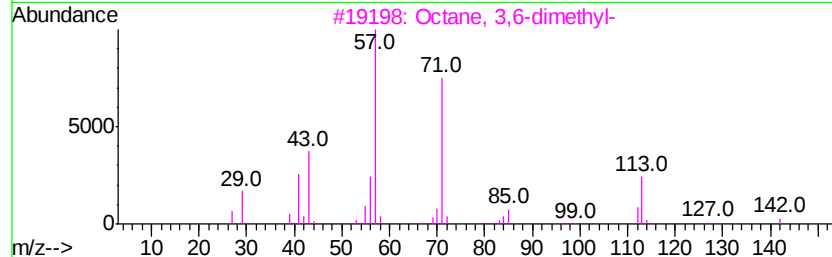
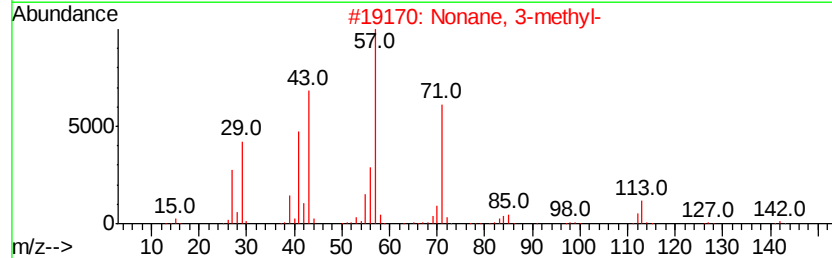
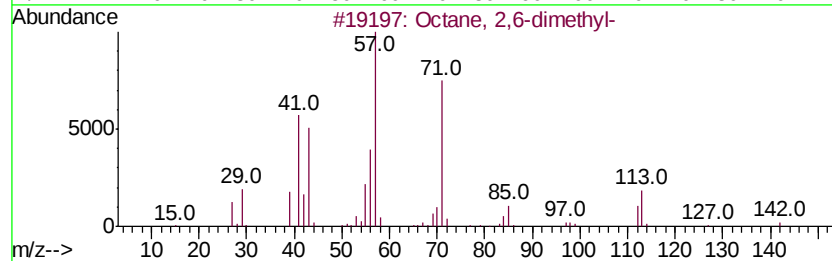
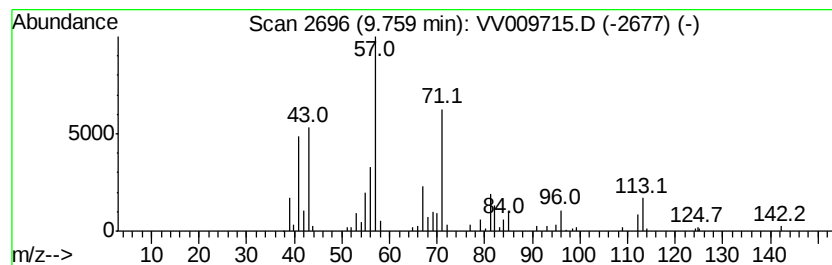
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 8 (DEL) Alkane: Straight-Chai... Concentration Rank 16

| R.T. | EstConc   | Area  | Relative to ISTD | R.T. |
|------|-----------|-------|------------------|------|
| 9.76 | 8.15 ug/L | 95056 | Chlorobenzene-d5 | 8.90 |

| Hit# | of | Tentative ID          | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------|-----|---------|-------------|------|
| 1    | 5  | Octane, 2,6-dimethyl- | 142 | C10H22  | 002051-30-1 | 94   |
| 2    |    | Nonane, 3-methyl-     | 142 | C10H22  | 005911-04-6 | 76   |
| 3    |    | Octane, 3,6-dimethyl- | 142 | C10H22  | 015869-94-0 | 70   |
| 4    |    | Octane, 2,6-dimethyl- | 142 | C10H22  | 002051-30-1 | 68   |
| 5    |    | Octane, 3,6-dimethyl- | 142 | C10H22  | 015869-94-0 | 64   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_V\DATA\VV031619\  
Data File : VV009715.D  
Acq On : 16 Mar 2019 03:41  
Operator : SY/MD  
Sample : K1936-02  
Misc : 5.62g/5.0mL/100uL/5.0mL/MSVOA\_V/MEOH  
ALS Vial : 33 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
BF0T9

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM031219WMA.M  
Quant Title : VOC Analysis

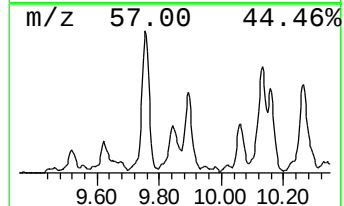
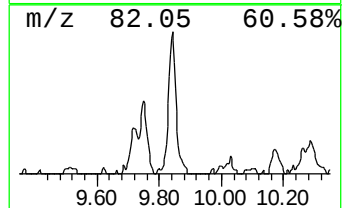
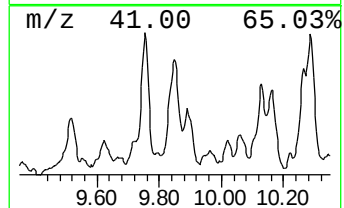
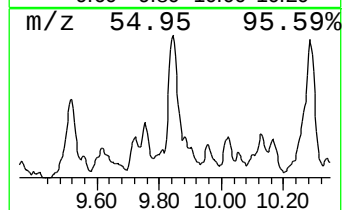
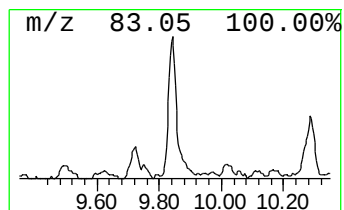
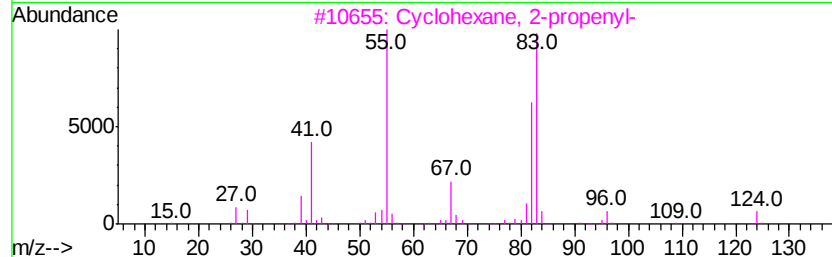
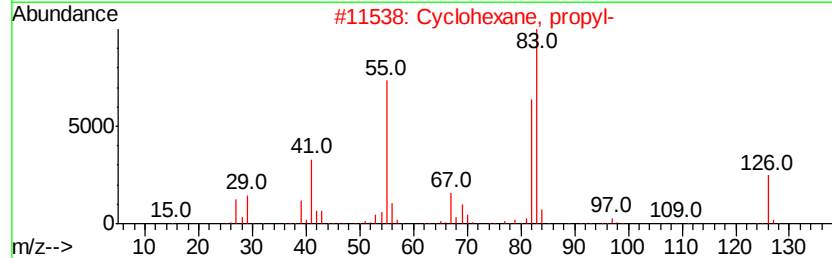
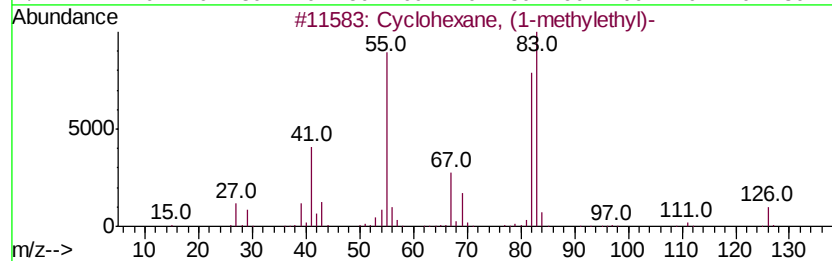
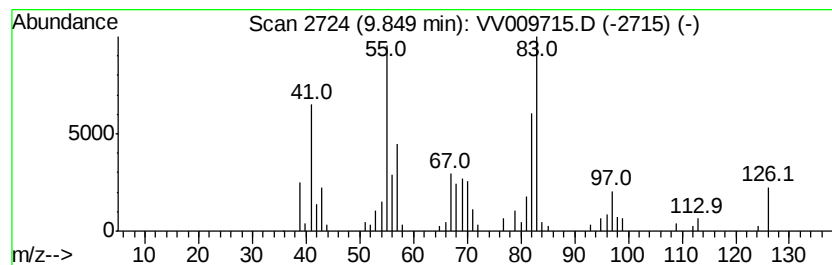
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 9 (DEL) Alkane: Cyclic9.85 Concentration Rank 19

| R.T. | EstConc   | Area  | Relative to ISTD | R.T. |
|------|-----------|-------|------------------|------|
| 9.85 | 5.26 ug/L | 61367 | Chlorobenzene-d5 | 8.90 |

| Hit# | of | Tentative ID                  | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------|-----|---------|-------------|------|
| 1    | 5  | Cyclohexane, (1-methylethyl)- | 126 | C9H18   | 000696-29-7 | 76   |
| 2    |    | Cyclohexane, propyl-          | 126 | C9H18   | 001678-92-8 | 72   |
| 3    |    | Cyclohexane, 2-propenyl-      | 124 | C9H16   | 002114-42-3 | 70   |
| 4    |    | Cyclohexane, propyl-          | 126 | C9H18   | 001678-92-8 | 64   |
| 5    |    | Cyclohexane, propyl-          | 126 | C9H18   | 001678-92-8 | 64   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_V\DATA\VV031619\  
Data File : VV009715.D  
Acq On : 16 Mar 2019 03:41  
Operator : SY/MD  
Sample : K1936-02  
Misc : 5.62uL/5.0mL/100uL/5.0mL/MSVOA\_V/MEOH  
ALS Vial : 33 Sample Multiplier: 1

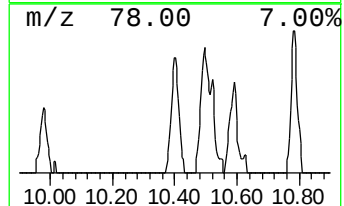
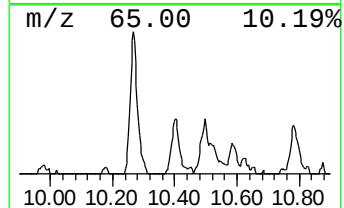
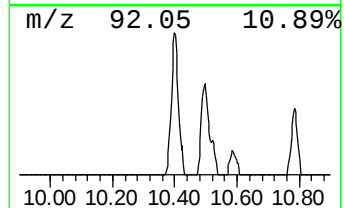
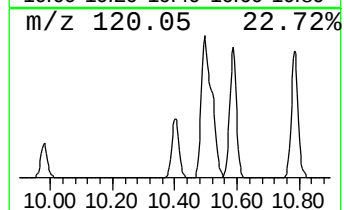
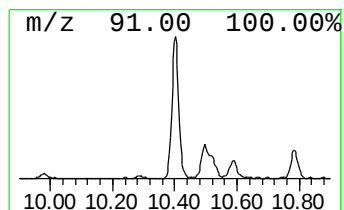
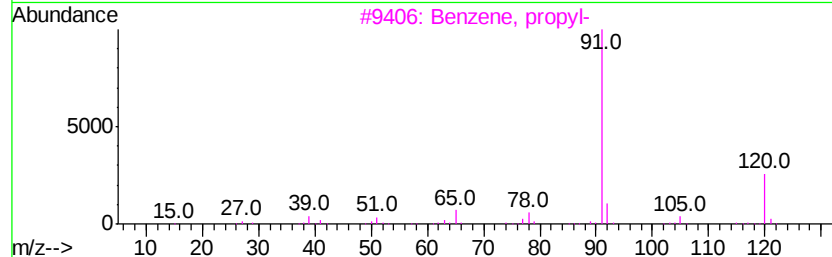
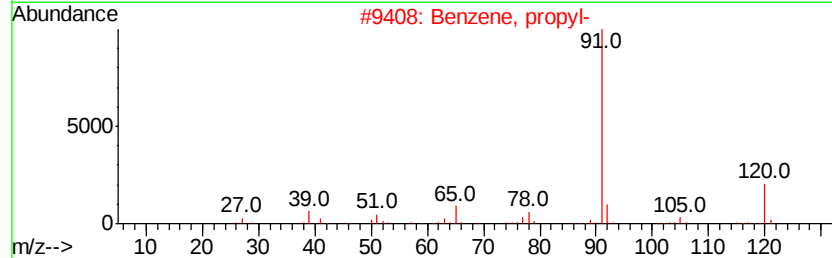
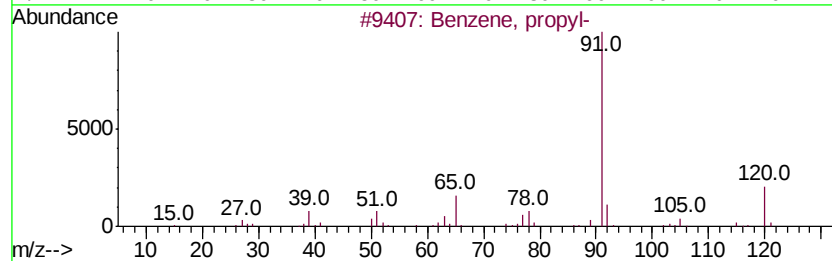
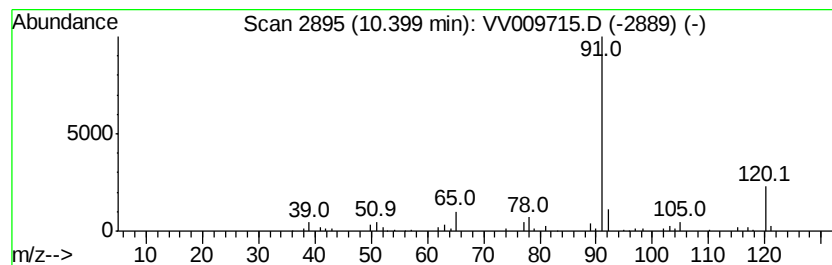
Instrument :  
MSVOA\_V  
ClientSampleId :  
BF0T9

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM031219WMA.M  
Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 10 Benzene, propyl- Concentration Rank 27

| R.T.    | EstConc   | Area                                | Relative to ISTD       | R.T.           |
|---------|-----------|-------------------------------------|------------------------|----------------|
| 10.40   | 2.98 ug/L | 39235                               | 1,4-Dichlorobenzene-d4 | 11.30          |
| Hit# of | 5         | Tentative ID                        | MW MolForm             | CAS# Qual      |
| 1       |           | Benzene, propyl-                    | 120 C9H12              | 000103-65-1 87 |
| 2       |           | Benzene, propyl-                    | 120 C9H12              | 000103-65-1 87 |
| 3       |           | Benzene, propyl-                    | 120 C9H12              | 000103-65-1 83 |
| 4       |           | N,N-Dibenzylethylenediamine diac... | 324 C20H24N2O2         | 000122-75-8 78 |
| 5       |           | Ethanol, 2-[(phenylmethyl)amino]-   | 151 C9H13NO            | 000104-63-2 72 |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV031619\  
Data File : VV009715.D  
Acq On : 16 Mar 2019 03:41  
Operator : SY/MD  
Sample : K1936-02  
Misc : 5.62µL/5.0mL/100µL/5.0mL/MSVOA\_V/MEOH  
ALS Vial : 33 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampled :  
BF0T9

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM031219WMA.M  
Quant Title : VOC Analysis

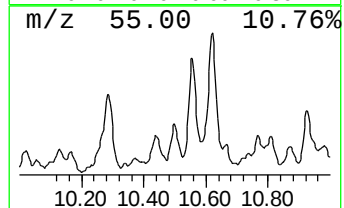
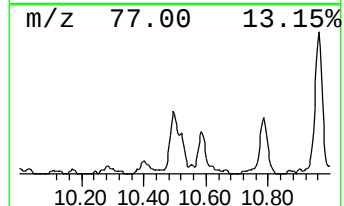
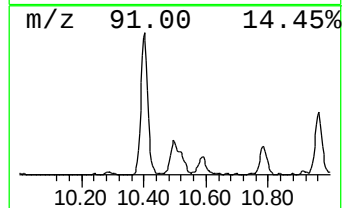
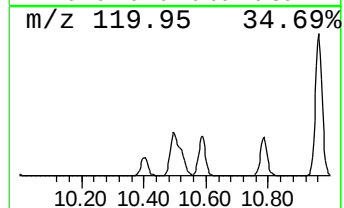
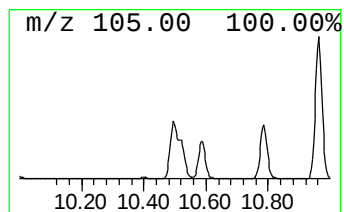
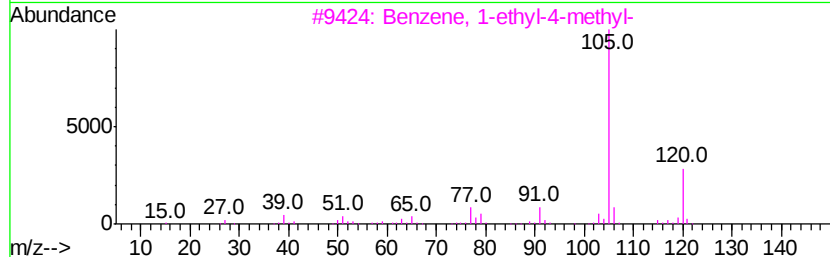
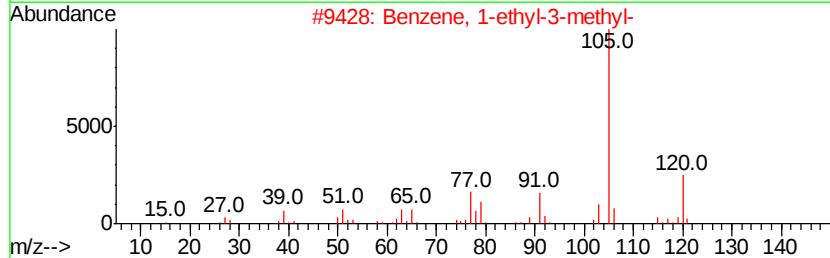
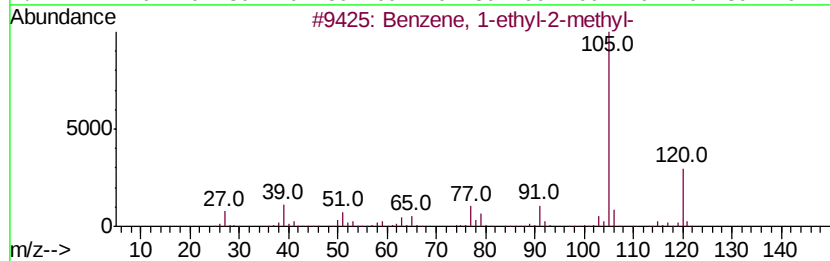
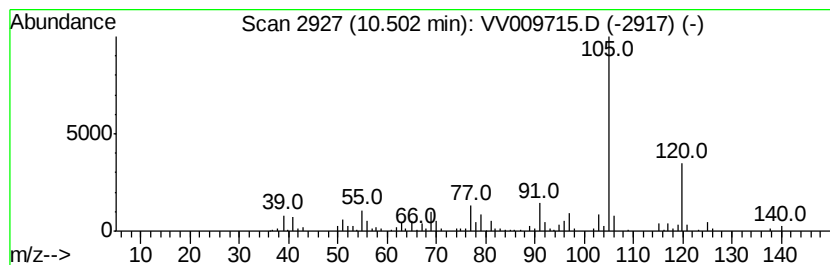
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 11 Benzene, 1-ethyl-2-methyl- Concentration Rank 10

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 10.50 | 12.00 ug/L | 157760 | 1,4-Dichlorobenzene-d4 | 11.30 |

| Hit# | of | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1-ethyl-2-methyl- | 120 | C9H12   | 000611-14-3 | 94   |
| 2    |    | Benzene, 1-ethyl-3-methyl- | 120 | C9H12   | 000620-14-4 | 93   |
| 3    |    | Benzene, 1-ethyl-4-methyl- | 120 | C9H12   | 000622-96-8 | 87   |
| 4    |    | Benzene, 1,2,3-trimethyl-  | 120 | C9H12   | 000526-73-8 | 87   |
| 5    |    | Benzene, 1-ethyl-2-methyl- | 120 | C9H12   | 000611-14-3 | 87   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV031619\  
Data File : VV009715.D  
Acq On : 16 Mar 2019 03:41  
Operator : SY/MD  
Sample : K1936-02  
Misc : 5.62g/5.0mL/100uL/5.0mL/MSVOA\_V/MEOH  
ALS Vial : 33 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
BF0T9

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM031219WMA.M  
Quant Title : VOC Analysis

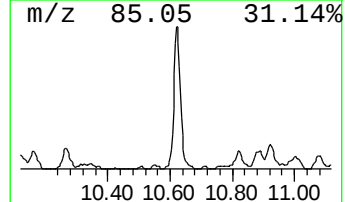
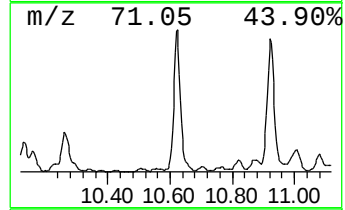
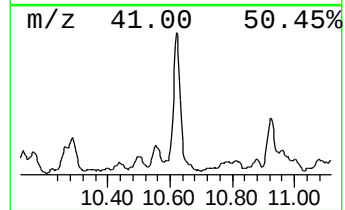
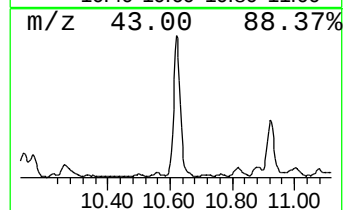
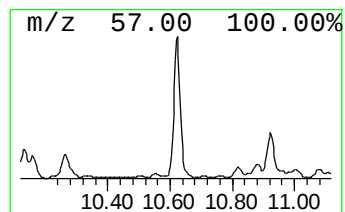
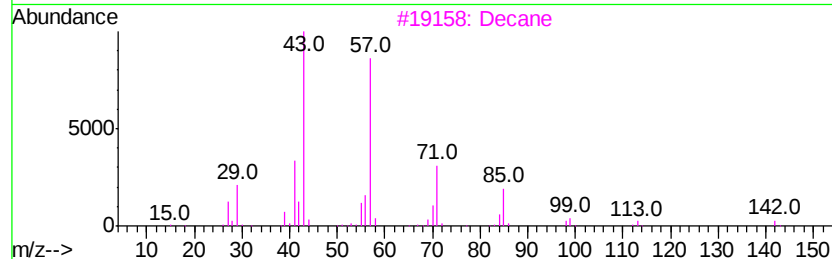
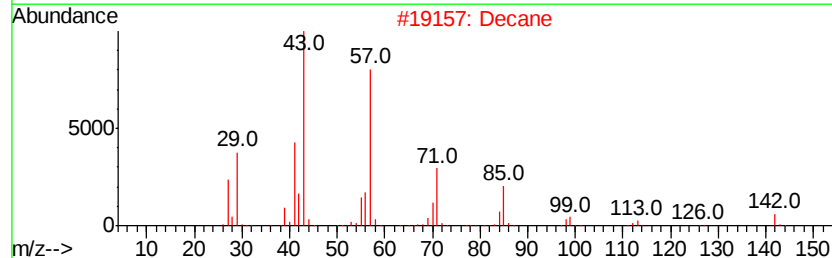
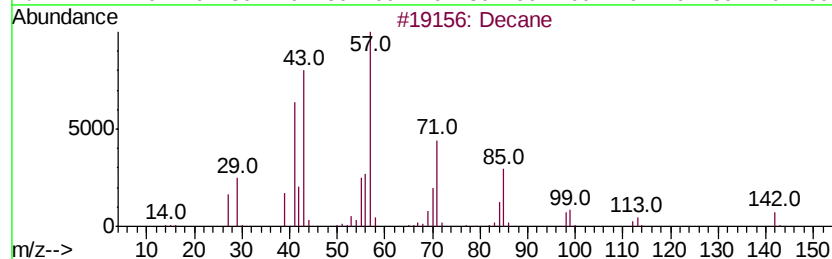
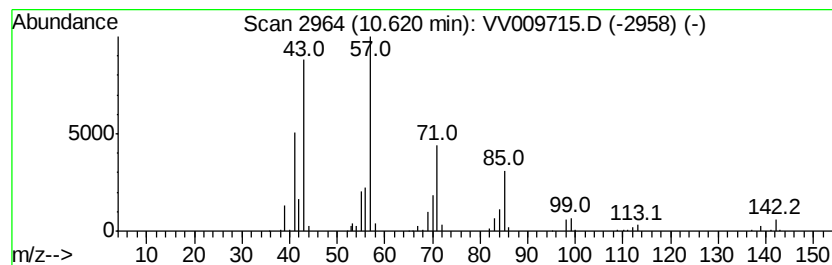
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 12 (DEL) Alkane: Straight-Chai... Concentration Rank 7

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 10.62 | 16.35 ug/L | 214923 | 1,4-Dichlorobenzene-d4 | 11.30 |

| Hit# | of | Tentative ID     | MW  | MolForm | CAS#        | Qual |
|------|----|------------------|-----|---------|-------------|------|
| 1    | 5  | Decane           | 142 | C10H22  | 000124-18-5 | 95   |
| 2    |    | Decane           | 142 | C10H22  | 000124-18-5 | 93   |
| 3    |    | Decane           | 142 | C10H22  | 000124-18-5 | 90   |
| 4    |    | Tetradecane      | 198 | C14H30  | 000629-59-4 | 86   |
| 5    |    | Octane, 4-ethyl- | 142 | C10H22  | 015869-86-0 | 72   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_V\DATA\VV031619\  
Data File : VV009715.D  
Acq On : 16 Mar 2019 03:41  
Operator : SY/MD  
Sample : K1936-02  
Misc : 5.62uL/5.0mL/100uL/5.0mL/MSVOA\_V/MEOH  
ALS Vial : 33 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
BF0T9

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM031219WMA.M  
Quant Title : VOC Analysis

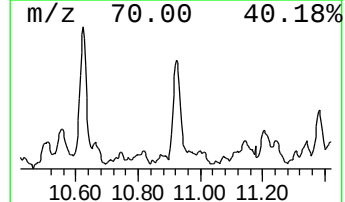
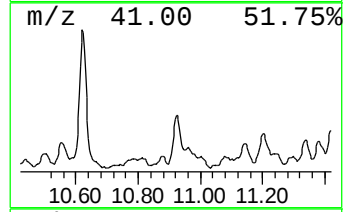
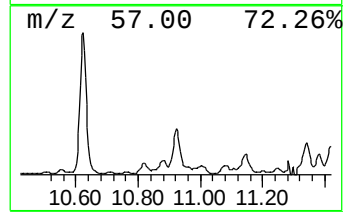
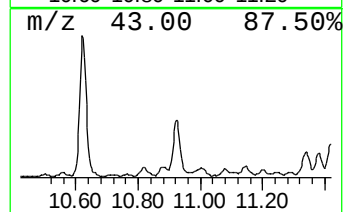
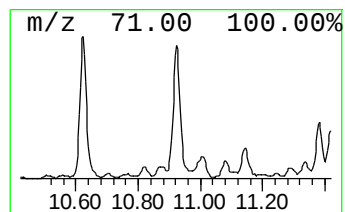
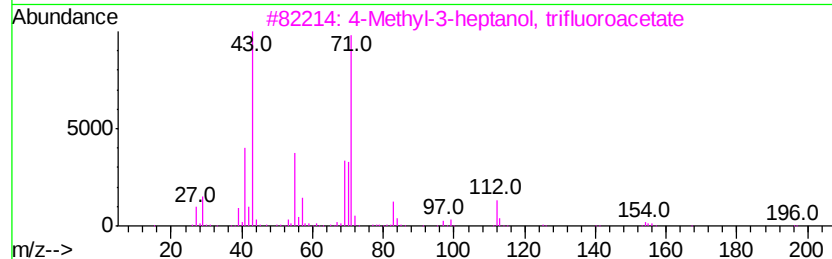
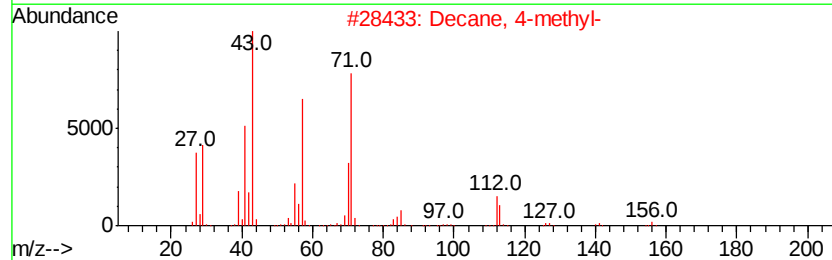
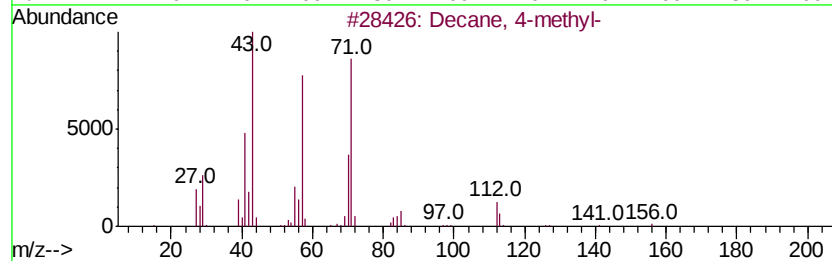
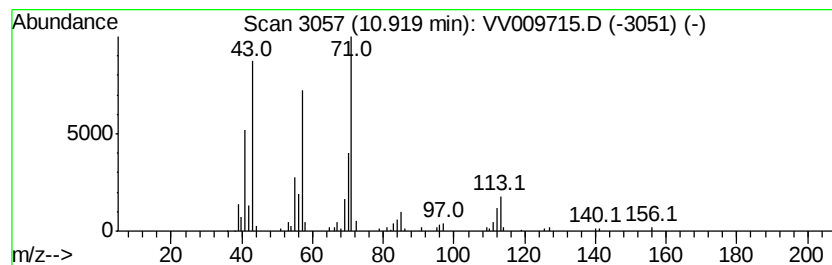
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 14 (DEL) Alkane: Straight-Chai... Concentration Rank 17

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 10.92 | 7.36 ug/L | 96786 | 1,4-Dichlorobenzene-d4 | 11.30 |

| Hit# | of | Tentative ID                        | MW  | MolForm    | CAS#         | Qual |
|------|----|-------------------------------------|-----|------------|--------------|------|
| 1    | 5  | Decane, 4-methyl-                   | 156 | C11H24     | 002847-72-5  | 81   |
| 2    |    | Decane, 4-methyl-                   | 156 | C11H24     | 002847-72-5  | 81   |
| 3    |    | 4-Methyl-3-heptanol, trifluoroac... | 226 | C10H17F3O2 | 1000365-51-8 | 72   |
| 4    |    | Heptane, 3,3,5-trimethyl-           | 142 | C10H22     | 007154-80-5  | 64   |
| 5    |    | Heptane, 3,3,5-trimethyl-           | 142 | C10H22     | 007154-80-5  | 64   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV031619\  
Data File : VV009715.D  
Acq On : 16 Mar 2019 03:41  
Operator : SY/MD  
Sample : K1936-02  
Misc : 5.62uL/5.0mL/100uL/5.0mL/MSVOA\_V/MEOH  
ALS Vial : 33 Sample Multiplier: 1

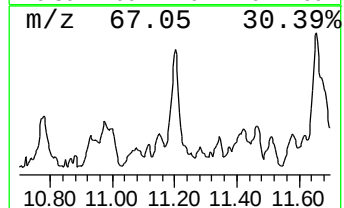
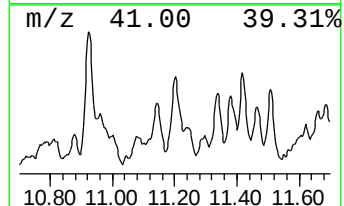
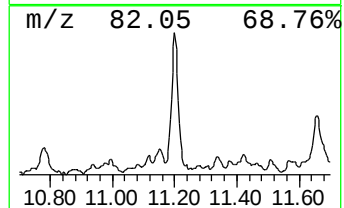
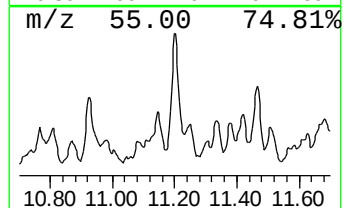
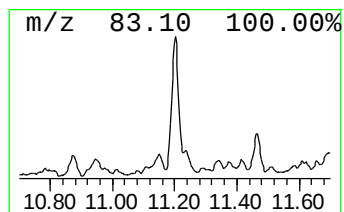
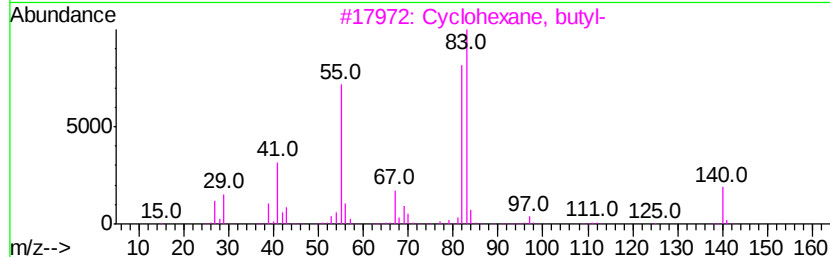
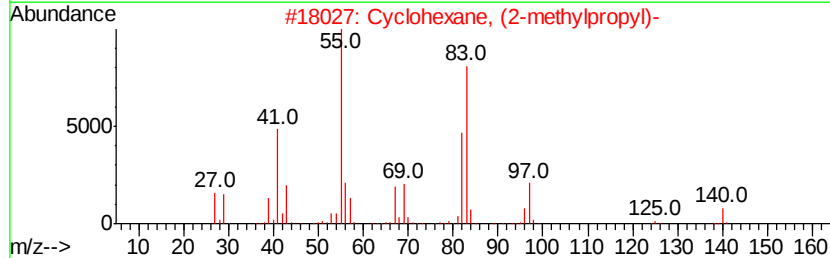
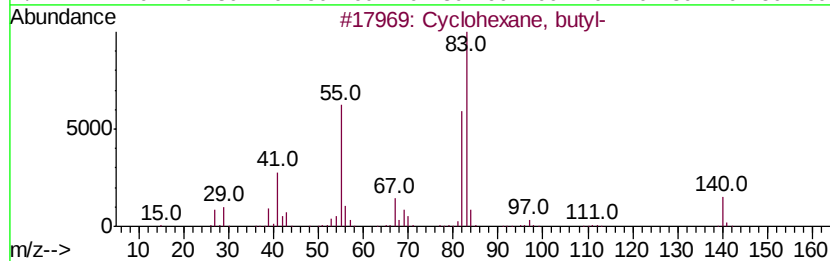
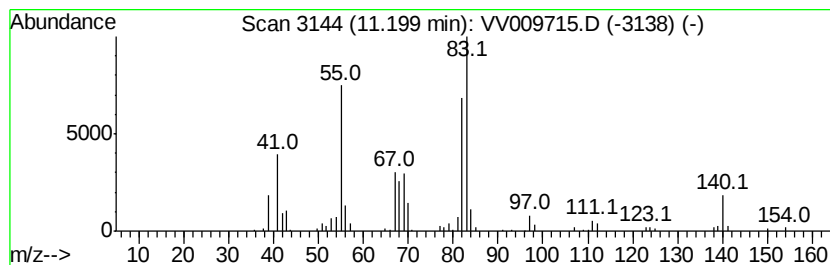
Instrument :  
MSVOA\_V  
ClientSampleId :  
BF0T9

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM031219WMA.M  
Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 16 (DEL) Alkane: Cyclic11.20 Concentration Rank 22

| R.T.      | EstConc                        | Area  | Relative to ISTD       | R.T.        |      |
|-----------|--------------------------------|-------|------------------------|-------------|------|
| 11.20     | 4.82 ug/L                      | 63395 | 1,4-Dichlorobenzene-d4 | 11.30       |      |
| Hit# of 5 | Tentative ID                   | MW    | MolForm                | CAS#        | Qual |
| 1         | Cyclohexane, butyl-            | 140   | C10H20                 | 001678-93-9 | 76   |
| 2         | Cyclohexane, (2-methylpropyl)- | 140   | C10H20                 | 001678-98-4 | 72   |
| 3         | Cyclohexane, butyl-            | 140   | C10H20                 | 001678-93-9 | 68   |
| 4         | Cyclohexane, (1-methylethyl)-  | 126   | C9H18                  | 000696-29-7 | 64   |
| 5         | Cyclohexane, butyl-            | 140   | C10H20                 | 001678-93-9 | 64   |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV031619\  
Data File : VV009715.D  
Acq On : 16 Mar 2019 03:41  
Operator : SY/MD  
Sample : K1936-02  
Misc : 5.62g/5.0mL/100uL/5.0mL/MSVOA\_V/MEOH  
ALS Vial : 33 Sample Multiplier: 1

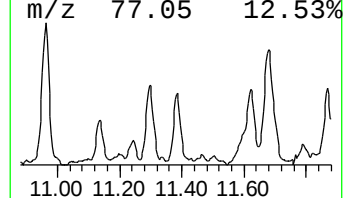
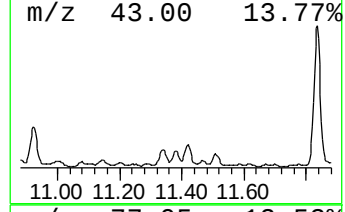
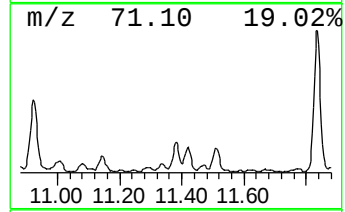
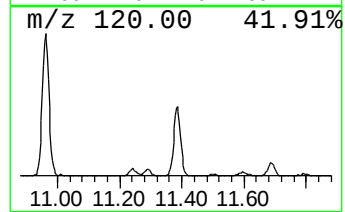
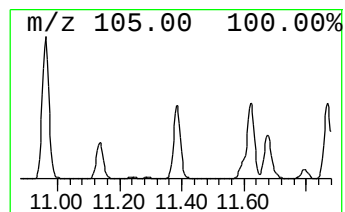
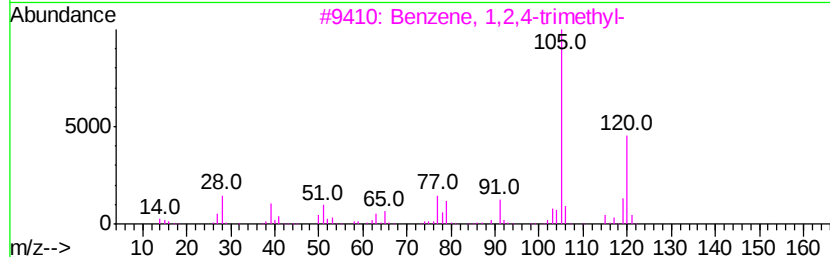
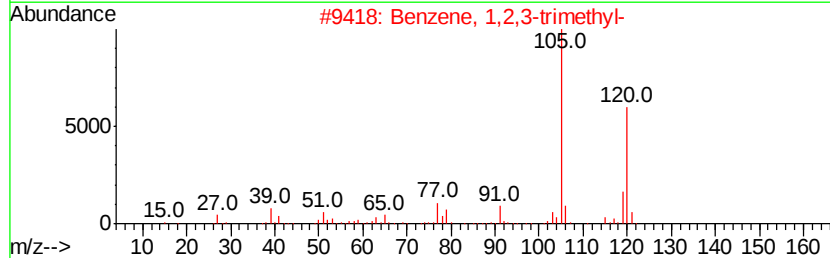
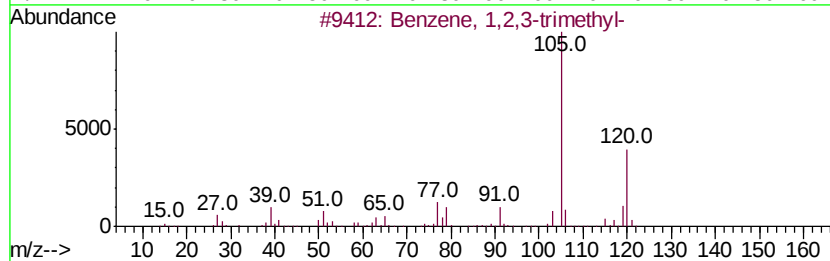
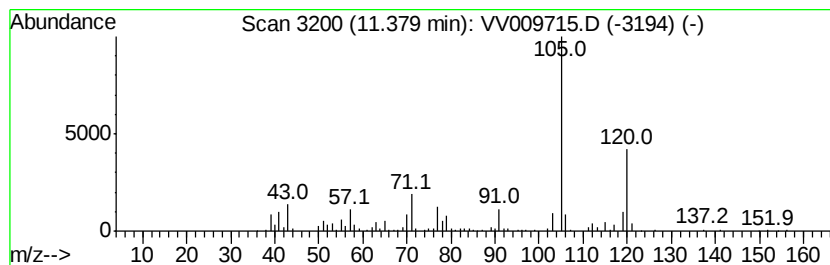
Instrument :  
MSVOA\_V  
ClientSampled :  
BF0T9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM031219WMA.M  
Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 17 Benzene, 1,2,3-trimethyl- Concentration Rank 11

| R.T.      | EstConc                    | Area   | Relative to ISTD       | R.T.        |      |
|-----------|----------------------------|--------|------------------------|-------------|------|
| 11.38     | 10.72 ug/L                 | 140959 | 1,4-Dichlorobenzene-d4 | 11.30       |      |
| Hit# of 5 | Tentative ID               | MW     | MolForm                | CAS#        | Qual |
| 1         | Benzene, 1,2,3-trimethyl-  | 120    | C9H12                  | 000526-73-8 | 95   |
| 2         | Benzene, 1,2,3-trimethyl-  | 120    | C9H12                  | 000526-73-8 | 94   |
| 3         | Benzene, 1,2,4-trimethyl-  | 120    | C9H12                  | 000095-63-6 | 87   |
| 4         | Mesitylene                 | 120    | C9H12                  | 000108-67-8 | 87   |
| 5         | Benzene, 1-ethyl-3-methyl- | 120    | C9H12                  | 000620-14-4 | 87   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV031619\  
 Data File : VV009715.D  
 Acq On : 16 Mar 2019 03:41  
 Operator : SY/MD  
 Sample : K1936-02  
 Misc : 5.62u/5.0mL/100uL/5.0mL/MSVOA\_V/MEOH  
 ALS Vial : 33 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampled :  
 BF0T9

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM031219WMA.M  
 Quant Title : VOC Analysis

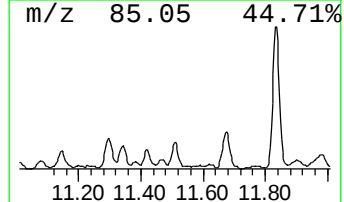
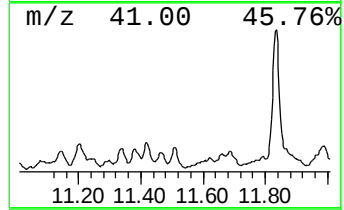
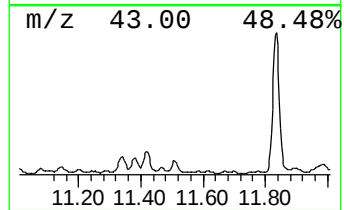
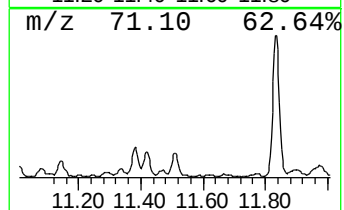
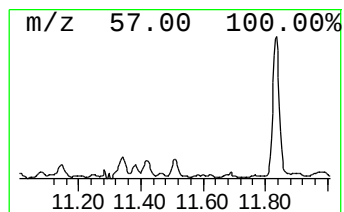
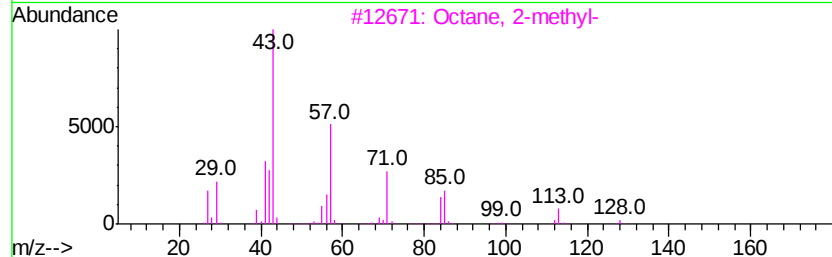
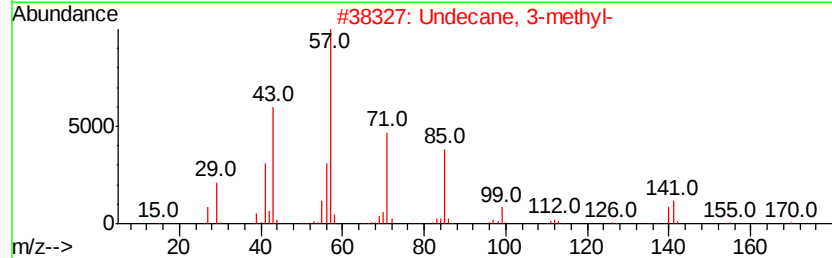
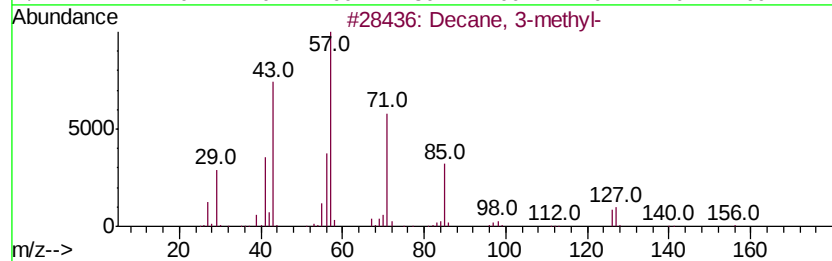
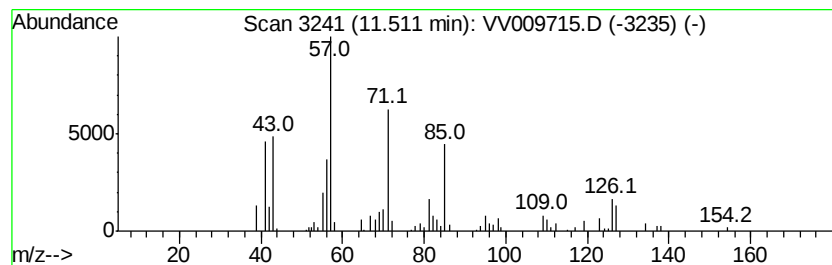
TIC Library : C:\DATABASE\NIST11.L  
 TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
 Peak Number 18 (DEL) Alkane: Straight-Chai... Concentration Rank 21

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 11.51 | 4.87 ug/L | 64024 | 1,4-Dichlorobenzene-d4 | 11.30 |

| Hit# | of | 5 | Tentative ID        | MW  | MolForm | CAS#        | Qual |
|------|----|---|---------------------|-----|---------|-------------|------|
| 1    |    |   | Decane, 3-methyl-   | 156 | C11H24  | 013151-34-3 | 72   |
| 2    |    |   | Undecane, 3-methyl- | 170 | C12H26  | 001002-43-3 | 59   |
| 3    |    |   | Octane, 2-methyl-   | 128 | C9H20   | 003221-61-2 | 53   |
| 4    |    |   | Undecane, 5-methyl- | 170 | C12H26  | 001632-70-8 | 50   |
| 5    |    |   | Octane, 2-methyl-   | 128 | C9H20   | 003221-61-2 | 47   |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV031619\  
Data File : VV009715.D  
Acq On : 16 Mar 2019 03:41  
Operator : SY/MD  
Sample : K1936-02  
Misc : 5.62g/5.0mL/100uL/5.0mL/MSVOA\_V/MEOH  
ALS Vial : 33 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
BF0T9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM031219WMA.M  
Quant Title : VOC Analysis

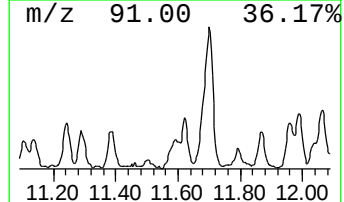
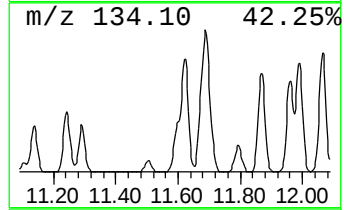
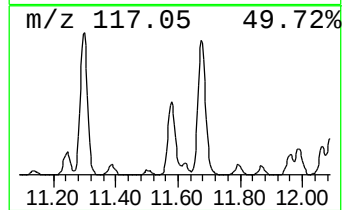
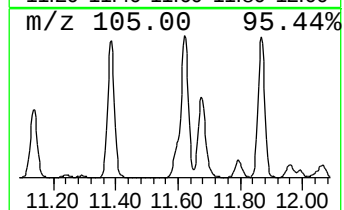
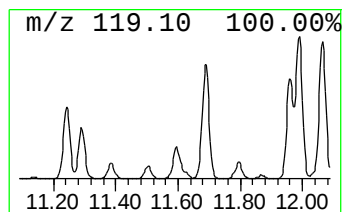
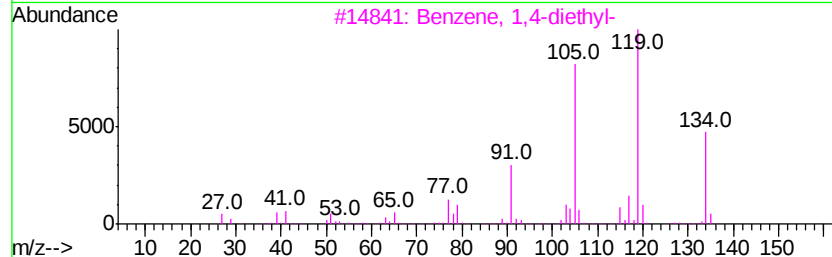
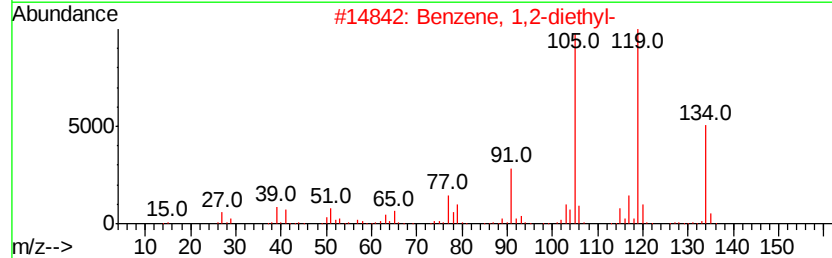
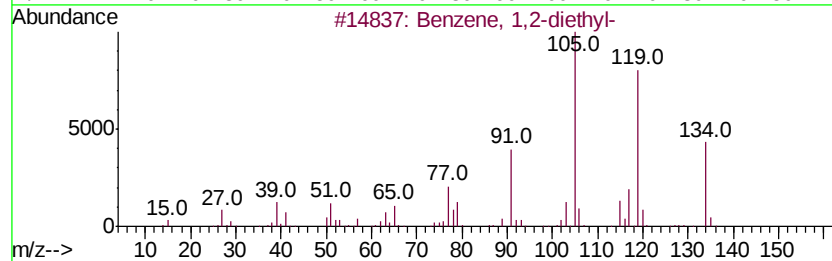
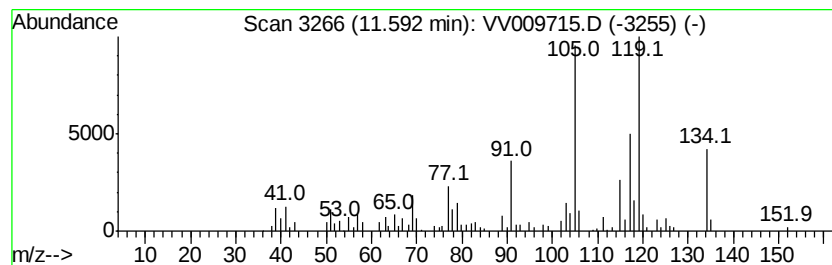
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 19 Benzene, 1,2-diethyl- Concentration Rank 18

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 11.59 | 5.89 ug/L | 77475 | 1,4-Dichlorobenzene-d4 | 11.30 |

| Hit# | of | 5 | Tentative ID          | MW  | MolForm | CAS#        | Qual |
|------|----|---|-----------------------|-----|---------|-------------|------|
| 1    |    |   | Benzene, 1,2-diethyl- | 134 | C10H14  | 000135-01-3 | 94   |
| 2    |    |   | Benzene, 1,2-diethyl- | 134 | C10H14  | 000135-01-3 | 90   |
| 3    |    |   | Benzene, 1,4-diethyl- | 134 | C10H14  | 000105-05-5 | 90   |
| 4    |    |   | Benzene, 1,4-diethyl- | 134 | C10H14  | 000105-05-5 | 83   |
| 5    |    |   | Benzene, 1,4-diethyl- | 134 | C10H14  | 000105-05-5 | 81   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV031619\  
Data File : VV009715.D  
Acq On : 16 Mar 2019 03:41  
Operator : SY/MD  
Sample : K1936-02  
Misc : 5.62µ/5.0mL/100µL/5.0mL/MSVOA\_V/MEOH  
ALS Vial : 33 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
BF0T9

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM031219WMA.M  
Quant Title : VOC Analysis

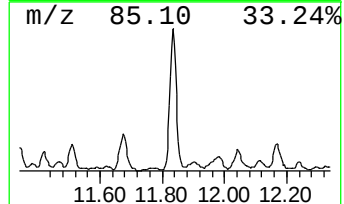
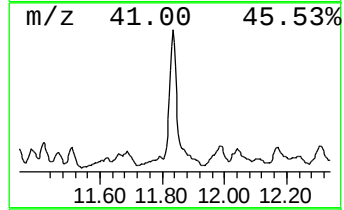
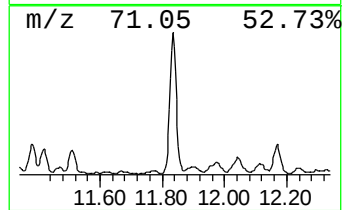
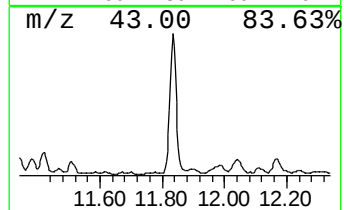
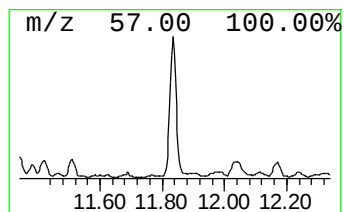
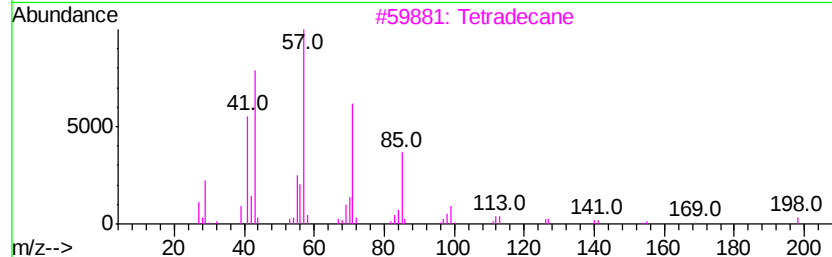
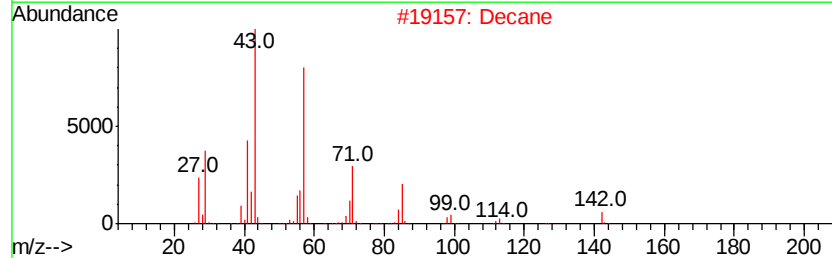
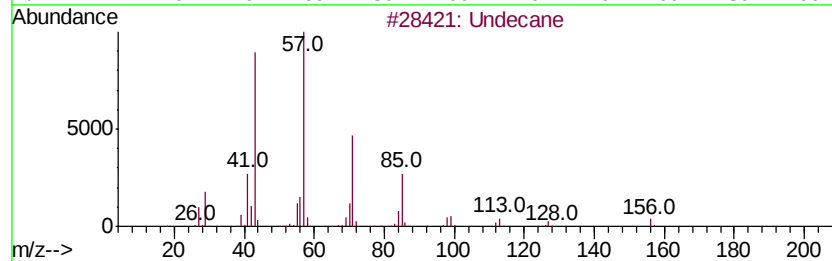
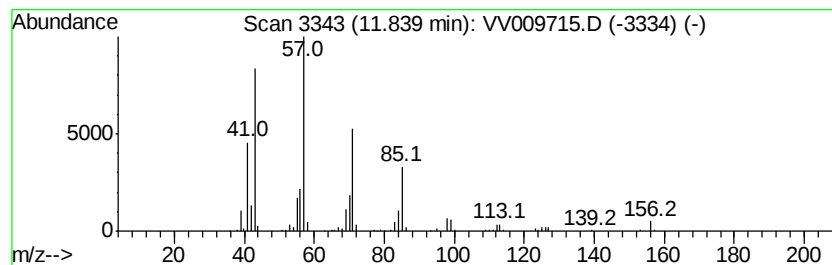
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 20 (DEL) Alkane: Straight-Chai... Concentration Rank 3

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 11.84 | 22.87 ug/L | 300655 | 1,4-Dichlorobenzene-d4 | 11.30 |

| Hit# | of | Tentative ID | MW  | MolForm | CAS#        | Qual |
|------|----|--------------|-----|---------|-------------|------|
| 1    | 5  | Undecane     | 156 | C11H24  | 001120-21-4 | 91   |
| 2    |    | Decane       | 142 | C10H22  | 000124-18-5 | 90   |
| 3    |    | Tetradecane  | 198 | C14H30  | 000629-59-4 | 90   |
| 4    |    | Undecane     | 156 | C11H24  | 001120-21-4 | 87   |
| 5    |    | Undecane     | 156 | C11H24  | 001120-21-4 | 87   |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV031619\  
Data File : VV009715.D  
Acq On : 16 Mar 2019 03:41  
Operator : SY/MD  
Sample : K1936-02  
Misc : 5.62uL/5.0mL/100uL/5.0mL/MSVOA\_V/MEOH  
ALS Vial : 33 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
BF0T9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM031219WMA.M  
Quant Title : VOC Analysis

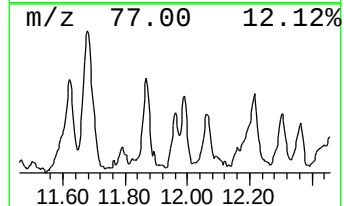
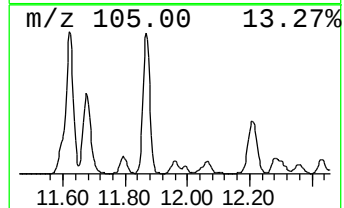
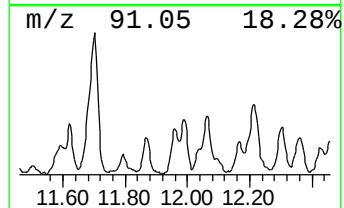
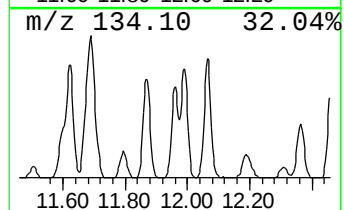
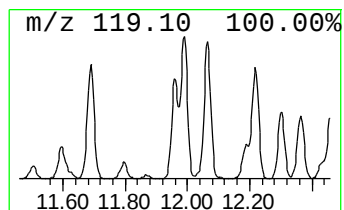
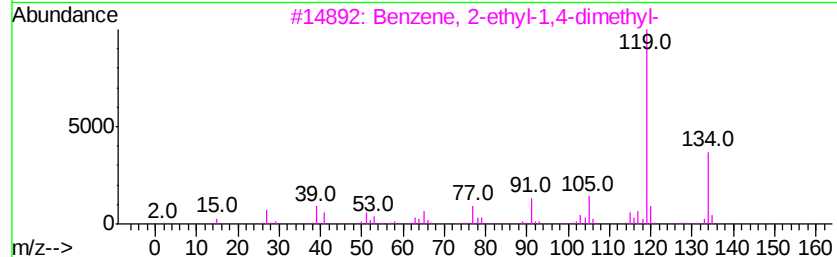
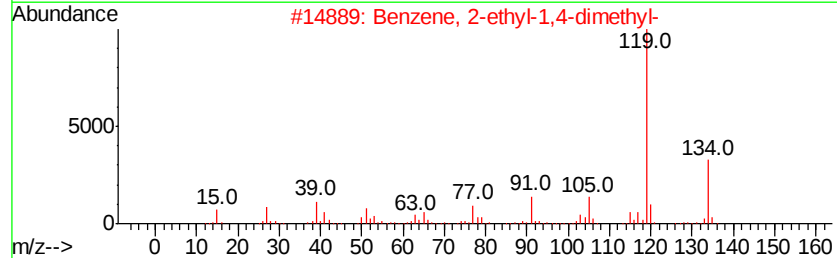
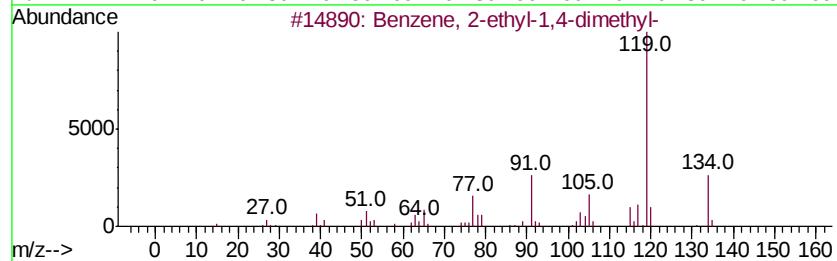
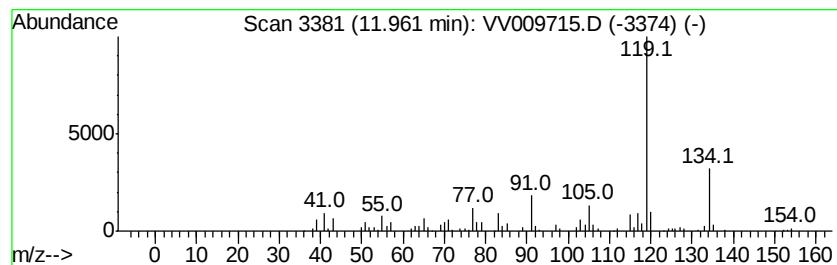
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 21 Benzene, 2-ethyl-1,4-dimethyl- Concentration Rank 20

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 11.96 | 5.23 ug/L | 68816 | 1,4-Dichlorobenzene-d4 | 11.30 |

| Hit# | of | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14  | 001758-88-9 | 96   |
| 2    |    | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14  | 001758-88-9 | 96   |
| 3    |    | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14  | 001758-88-9 | 95   |
| 4    |    | Benzene, 1-ethyl-2,3-dimethyl- | 134 | C10H14  | 000933-98-2 | 95   |
| 5    |    | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14  | 001758-88-9 | 95   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV031619\  
Data File : VV009715.D  
Acq On : 16 Mar 2019 03:41  
Operator : SY/MD  
Sample : K1936-02  
Misc : 5.62u/5.0mL/100uL/5.0mL/MSVOA\_V/MEOH  
ALS Vial : 33 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
BF0T9

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM031219WMA.M  
Quant Title : VOC Analysis

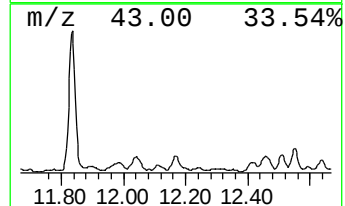
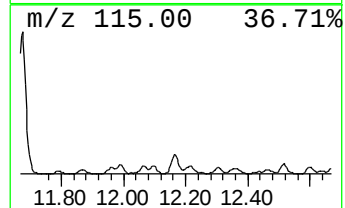
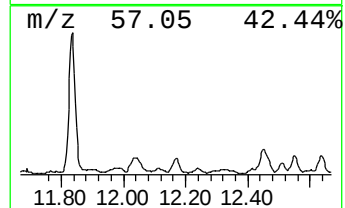
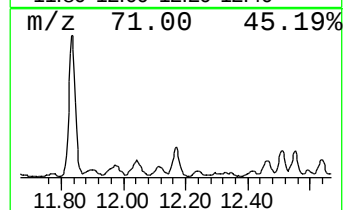
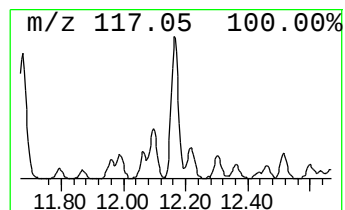
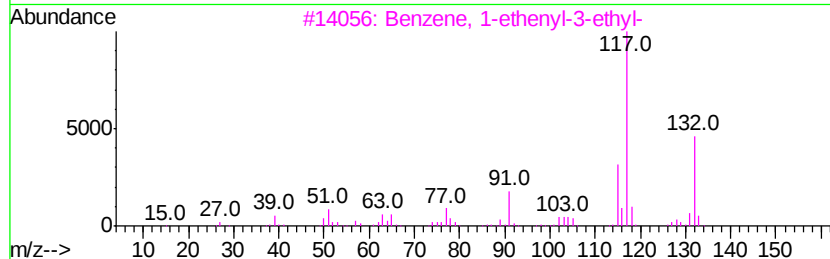
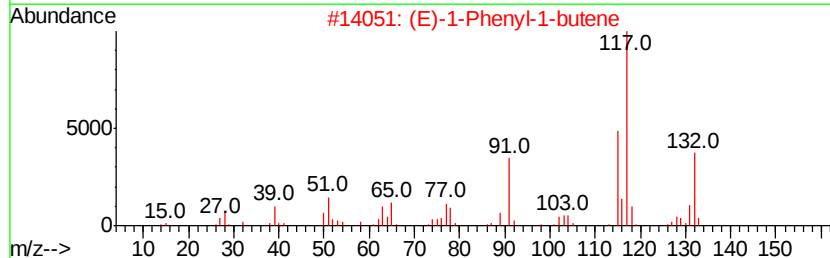
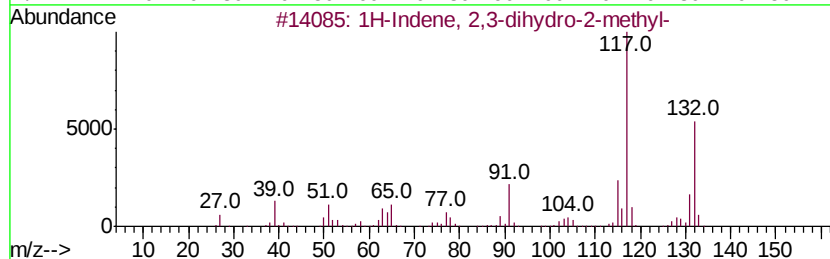
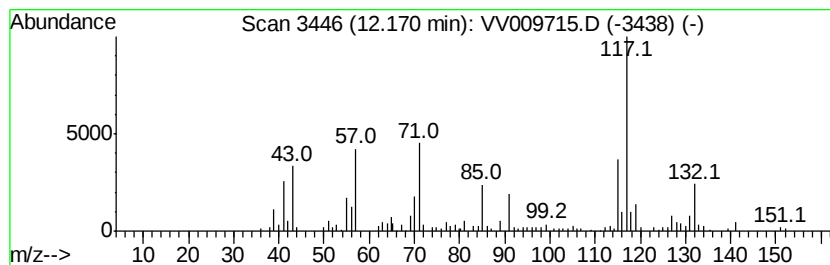
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 22 1H-Indene, 2,3-dihydro-2-me... Concentration Rank 15

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 12.17 | 8.24 ug/L | 108324 | 1,4-Dichlorobenzene-d4 | 11.30 |

| Hit# | of | 5 | Tentative ID                     | MW  | MolForm | CAS#        | Qual |
|------|----|---|----------------------------------|-----|---------|-------------|------|
| 1    |    |   | 1H-Indene, 2,3-dihydro-2-methyl- | 132 | C10H12  | 000824-63-5 | 76   |
| 2    |    |   | (E)-1-Phenyl-1-butene            | 132 | C10H12  | 001005-64-7 | 68   |
| 3    |    |   | Benzene, 1-ethenyl-3-ethyl-      | 132 | C10H12  | 007525-62-4 | 68   |
| 4    |    |   | 1H-Indene, 2,3-dihydro-5-methyl- | 132 | C10H12  | 000874-35-1 | 68   |
| 5    |    |   | Indan, 1-methyl-                 | 132 | C10H12  | 000767-58-8 | 68   |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_V\DATA\VV031619\  
Data File : VV009715.D  
Acq On : 16 Mar 2019 03:41  
Operator : SY/MD  
Sample : K1936-02  
Misc : 5.62µ/5.0mL/100µL/5.0mL/MSVOA\_V/MEOH  
ALS Vial : 33 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
BF0T9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM031219WMA.M  
Quant Title : VOC Analysis

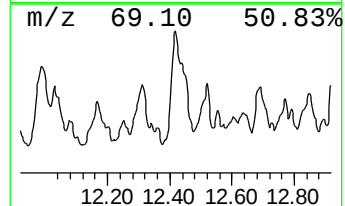
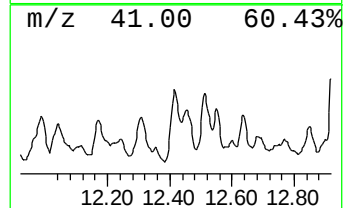
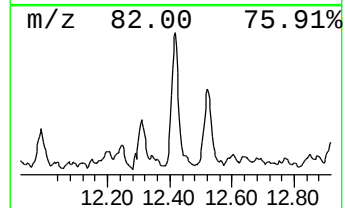
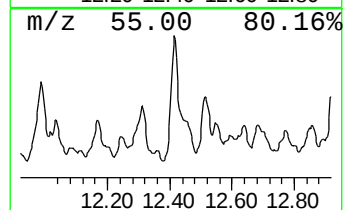
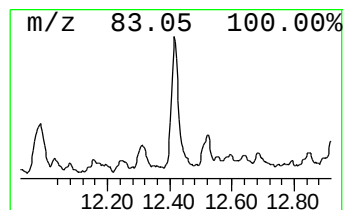
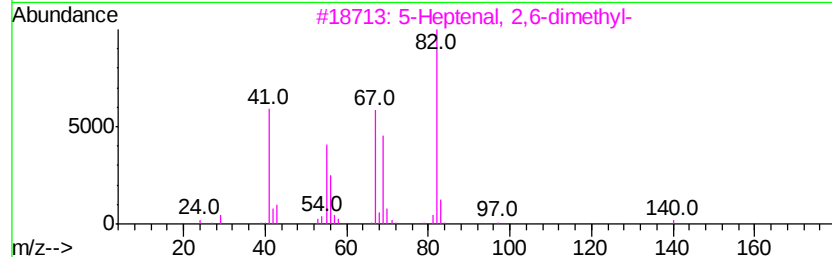
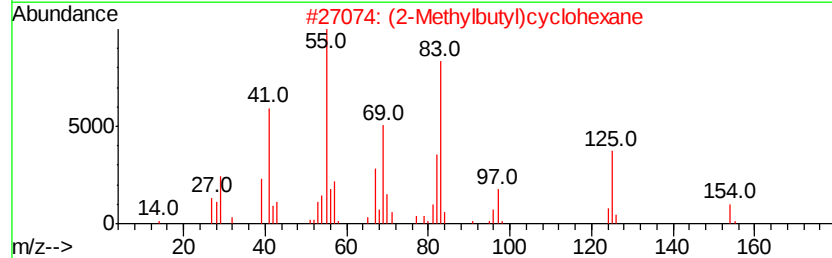
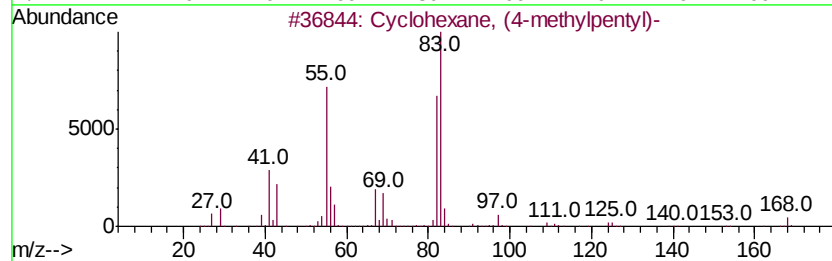
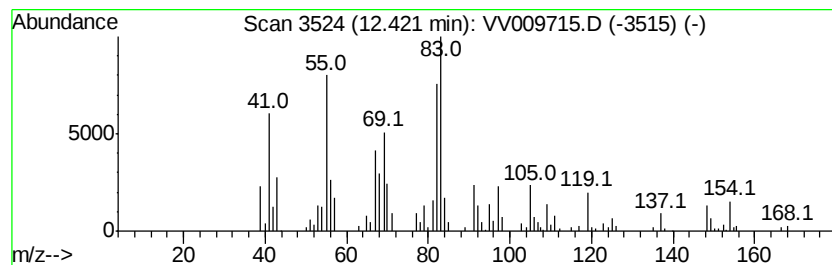
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 23 (DEL) Alkane: Cyclic12.42 Concentration Rank 13

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 12.42 | 10.16 ug/L | 133607 | 1,4-Dichlorobenzene-d4 | 11.30 |

| Hit# | of | Tentative ID                        | MW  | MolForm    | CAS#         | Qual |
|------|----|-------------------------------------|-----|------------|--------------|------|
| 1    | 5  | Cyclohexane, (4-methylpentyl)-      | 168 | C12H24     | 061142-20-9  | 58   |
| 2    |    | (2-Methylbutyl)cyclohexane          | 154 | C11H22     | 054105-77-0  | 58   |
| 3    |    | 5-Heptenal, 2,6-dimethyl-           | 140 | C9H16O     | 000106-72-9  | 35   |
| 4    |    | 7-Oxabicyclo[4.1.0]heptan-2-one,... | 154 | C9H14O2    | 010276-21-8  | 30   |
| 5    |    | 1-Cyclohexylethanol, pentafluoro... | 274 | C11H15F5O2 | 1000365-50-1 | 27   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_V\DATA\VV031619\  
Data File : VV009715.D  
Acq On : 16 Mar 2019 03:41  
Operator : SY/MD  
Sample : K1936-02  
Misc : 5.62uL/5.0mL/100uL/5.0mL/MSVOA\_V/MEOH  
ALS Vial : 33 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
BF0T9

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM031219WMA.M  
Quant Title : VOC Analysis

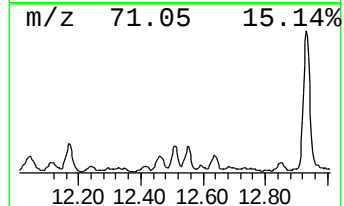
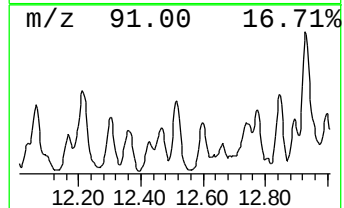
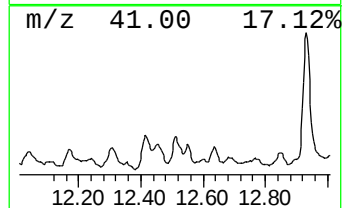
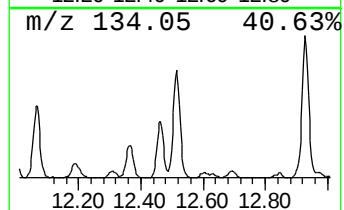
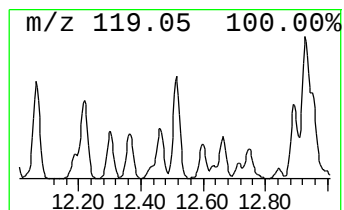
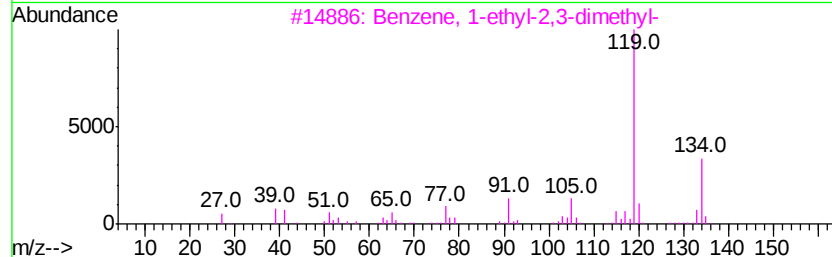
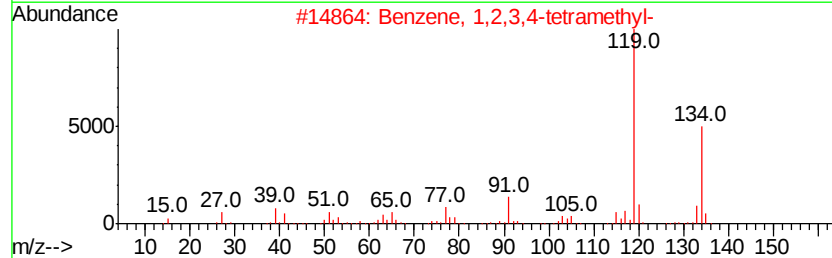
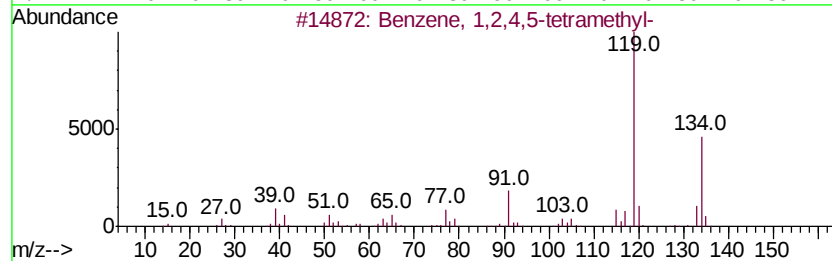
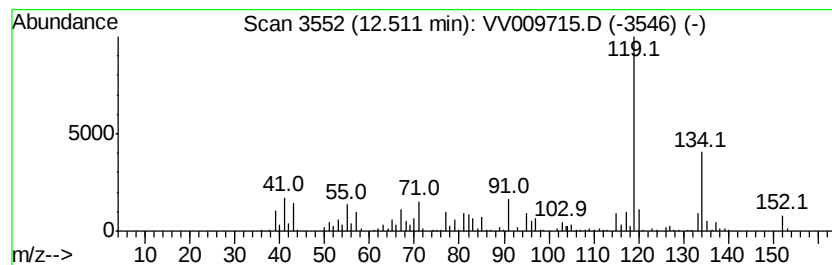
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 24 Benzene, 1,2,4,5-tetramethyl- Concentration Rank 9

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 12.51 | 14.92 ug/L | 196246 | 1,4-Dichlorobenzene-d4 | 11.30 |

| Hit# | of | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1,2,4,5-tetramethyl-  | 134 | C10H14  | 000095-93-2 | 95   |
| 2    |    | Benzene, 1,2,3,4-tetramethyl-  | 134 | C10H14  | 000488-23-3 | 94   |
| 3    |    | Benzene, 1-ethyl-2,3-dimethyl- | 134 | C10H14  | 000933-98-2 | 93   |
| 4    |    | Benzene, 1-ethyl-2,4-dimethyl- | 134 | C10H14  | 000874-41-9 | 93   |
| 5    |    | Benzene, 1,2,4,5-tetramethyl-  | 134 | C10H14  | 000095-93-2 | 91   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV031619\  
Data File : VV009715.D  
Acq On : 16 Mar 2019 03:41  
Operator : SY/MD  
Sample : K1936-02  
Misc : 5.62uL/5.0mL/100uL/5.0mL/MSVOA\_V/MEOH  
ALS Vial : 33 Sample Multiplier: 1

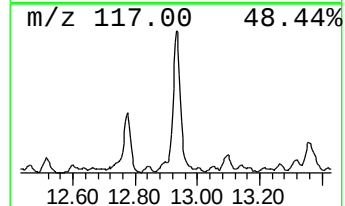
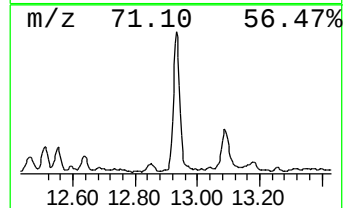
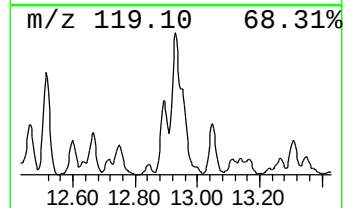
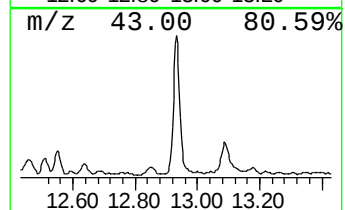
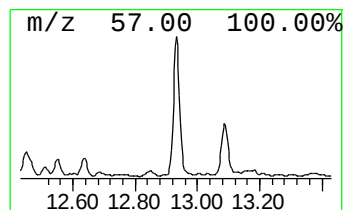
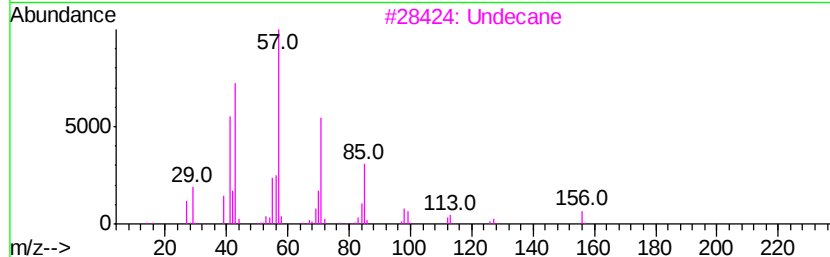
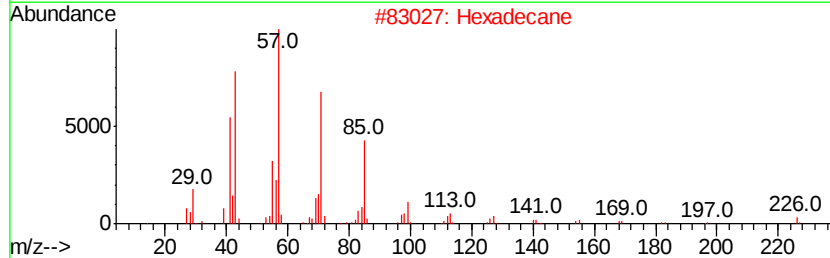
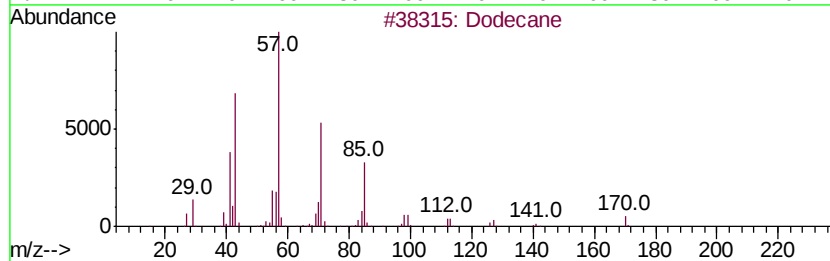
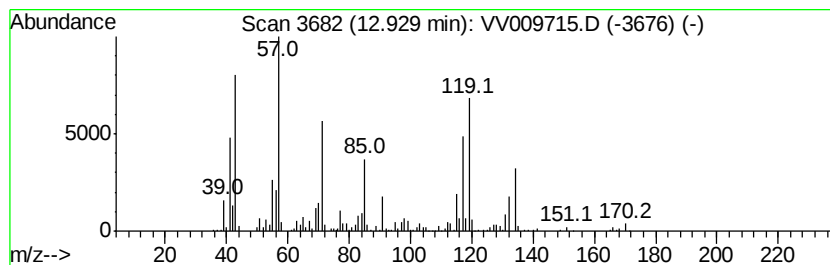
Instrument :  
MSVOA\_V  
ClientSampleId :  
BF0T9

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM031219WMA.M  
Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 25 (DEL) Alkane: Straight-Chai... Concentration Rank 1

| R.T.      | EstConc      | Area   | Relative to ISTD       | R.T.        |      |
|-----------|--------------|--------|------------------------|-------------|------|
| 12.93     | 42.59 ug/L   | 560062 | 1,4-Dichlorobenzene-d4 | 11.30       |      |
| Hit# of 5 | Tentative ID | MW     | MolForm                | CAS#        | Qual |
| 1         | Dodecane     | 170    | C12H26                 | 000112-40-3 | 84   |
| 2         | Hexadecane   | 226    | C16H34                 | 000544-76-3 | 41   |
| 3         | Undecane     | 156    | C11H24                 | 001120-21-4 | 38   |
| 4         | Nonadecane   | 268    | C19H40                 | 000629-92-5 | 38   |
| 5         | Nonane       | 128    | C9H20                  | 000111-84-2 | 38   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV031619\  
Data File : VV009715.D  
Acq On : 16 Mar 2019 03:41  
Operator : SY/MD  
Sample : K1936-02  
Misc : 5.62µL/5.0mL/100µL/5.0mL/MSVOA\_V/MEOH  
ALS Vial : 33 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
BF0T9

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM031219WMA.M  
Quant Title : VOC Analysis

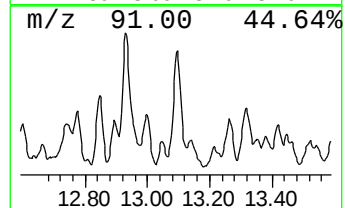
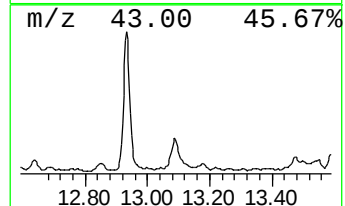
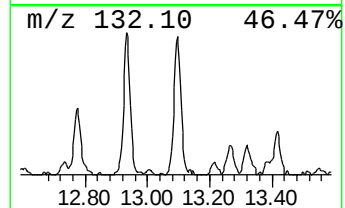
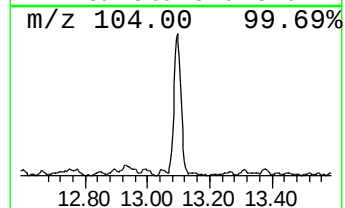
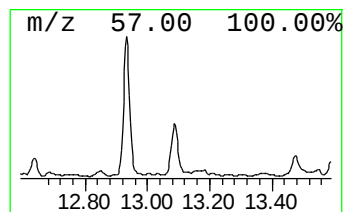
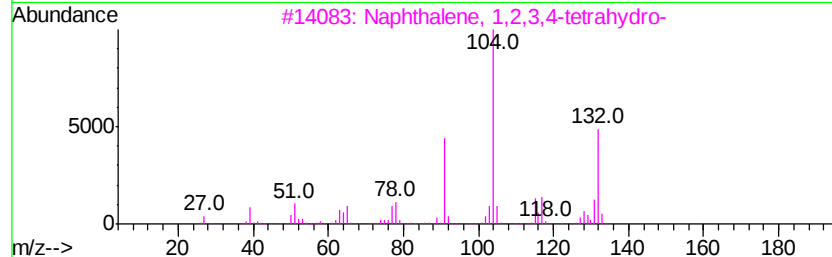
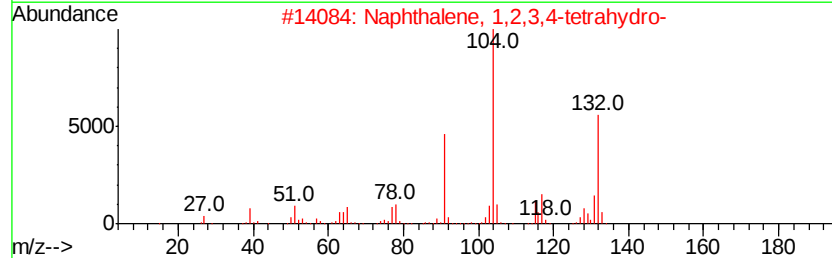
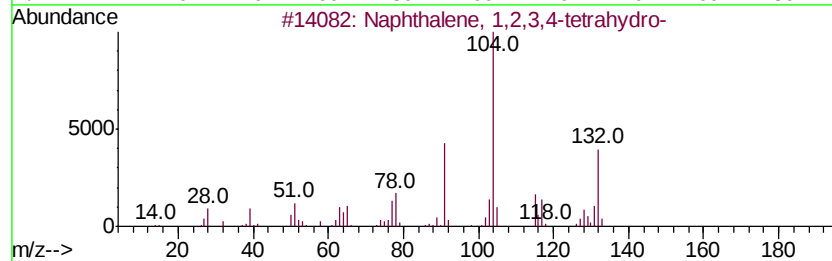
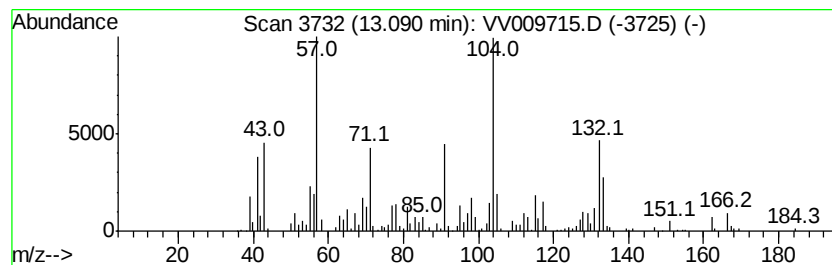
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 26 Naphthalene, 1,2,3,4-tetrahydro... Concentration Rank 4

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 13.09 | 18.65 ug/L | 245202 | 1,4-Dichlorobenzene-d4 | 11.30 |

| Hit# | of | Tentative ID                     | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------------|-----|---------|-------------|------|
| 1    | 5  | Naphthalene, 1,2,3,4-tetrahydro- | 132 | C10H12  | 000119-64-2 | 95   |
| 2    |    | Naphthalene, 1,2,3,4-tetrahydro- | 132 | C10H12  | 000119-64-2 | 91   |
| 3    |    | Naphthalene, 1,2,3,4-tetrahydro- | 132 | C10H12  | 000119-64-2 | 83   |
| 4    |    | Naphthalene, 1,2,3,4-tetrahydro- | 132 | C10H12  | 000119-64-2 | 60   |
| 5    |    | Undecane, 2,6-dimethyl-          | 184 | C13H28  | 017301-23-4 | 59   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV031619\  
Data File : VV009715.D  
Acq On : 16 Mar 2019 03:41  
Operator : SY/MD  
Sample : K1936-02  
Misc : 5.62g/5.0mL/100uL/5.0mL/MSVOA\_V/MEOH  
ALS Vial : 33 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
BF0T9

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM031219WMA.M  
Quant Title : VOC Analysis

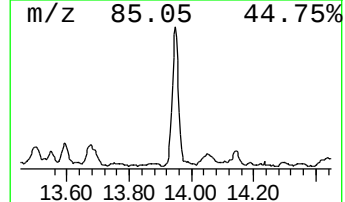
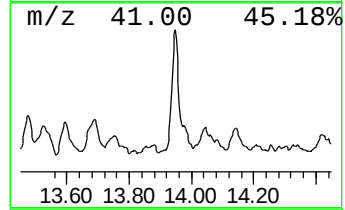
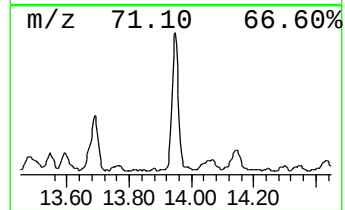
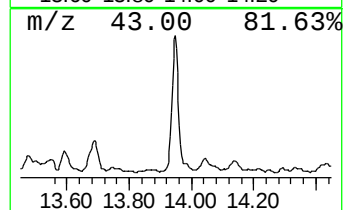
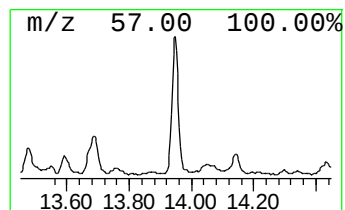
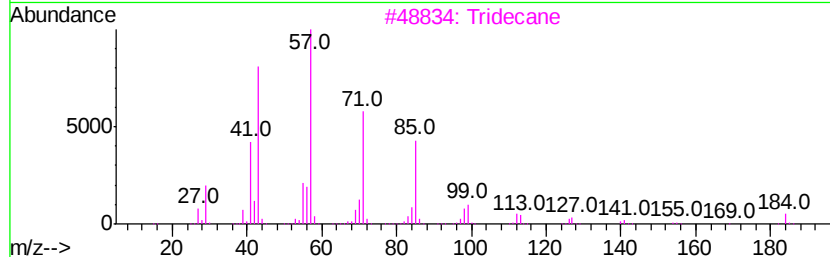
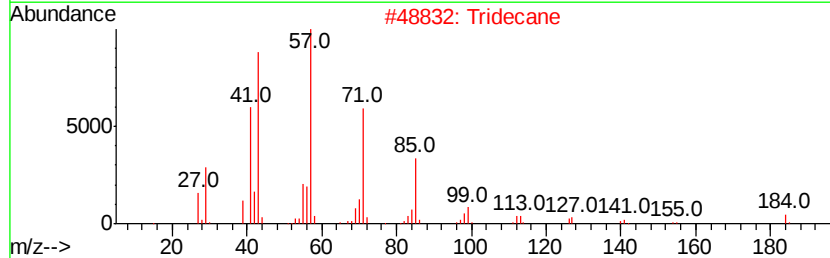
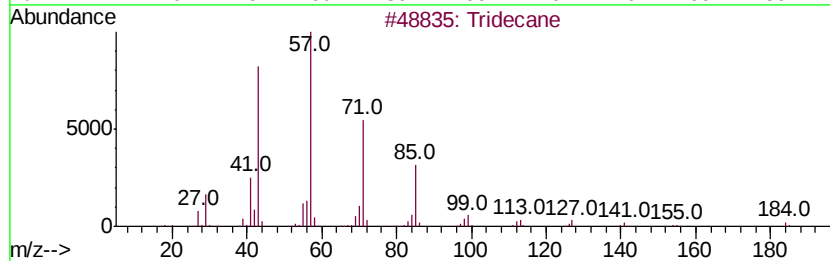
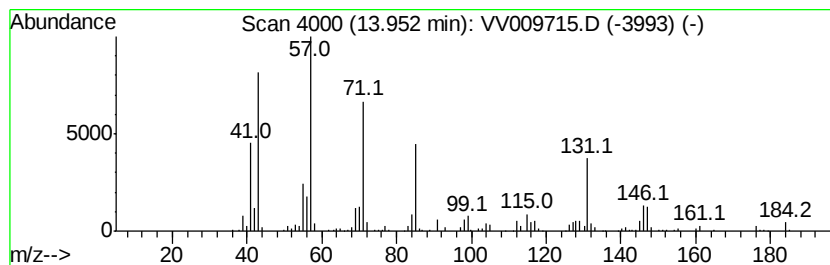
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 27 (DEL) Alkane: Straight-Chai... Concentration Rank 2

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 13.95 | 26.38 ug/L | 346840 | 1,4-Dichlorobenzene-d4 | 11.30 |

| Hit# | of | Tentative ID | MW  | MolForm | CAS#        | Qual |
|------|----|--------------|-----|---------|-------------|------|
| 1    | 5  | Tridecane    | 184 | C13H28  | 000629-50-5 | 86   |
| 2    |    | Tridecane    | 184 | C13H28  | 000629-50-5 | 78   |
| 3    |    | Tridecane    | 184 | C13H28  | 000629-50-5 | 62   |
| 4    |    | Hexadecane   | 226 | C16H34  | 000544-76-3 | 58   |
| 5    |    | Dodecane     | 170 | C12H26  | 000112-40-3 | 58   |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV031619\  
Data File : VV009715.D  
Acq On : 16 Mar 2019 03:41  
Operator : SY/MD  
Sample : K1936-02  
Misc : 5.62µL/5.0mL/100µL/5.0mL/MSVOA\_V/MEOH  
ALS Vial : 33 Sample Multiplier: 1

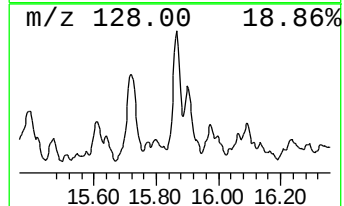
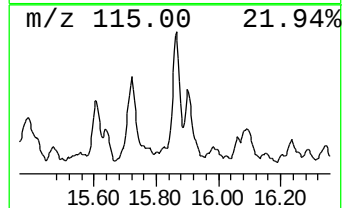
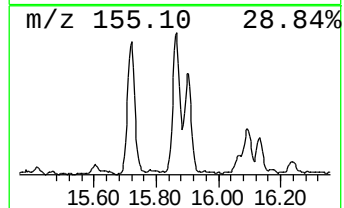
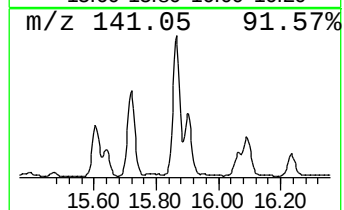
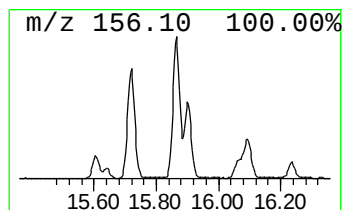
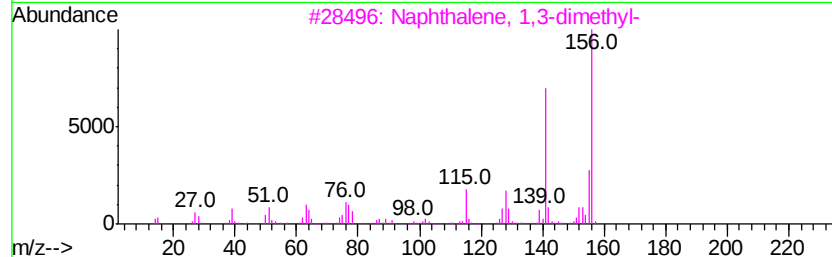
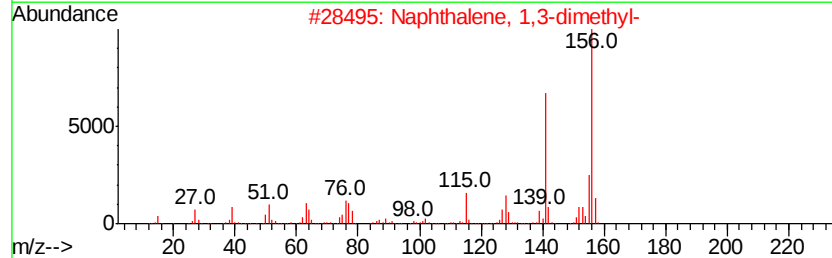
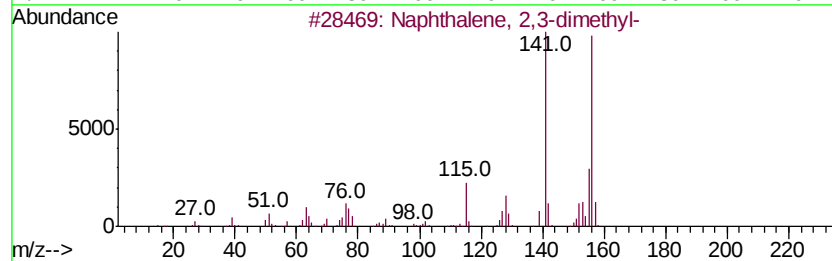
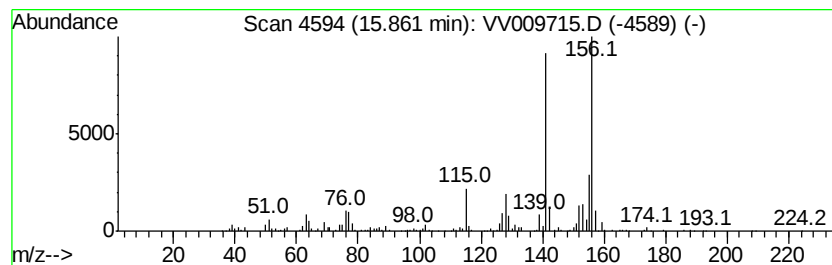
Instrument :  
MSVOA\_V  
ClientSampleId :  
BF0T9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM031219WMA.M  
Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 28 Naphthalene, 2,3-dimethyl- Concentration Rank 6

| R.T.    | EstConc    | Area                       | Relative to ISTD       | R.T.           |
|---------|------------|----------------------------|------------------------|----------------|
| 15.86   | 17.36 ug/L | 228326                     | 1,4-Dichlorobenzene-d4 | 11.30          |
| Hit# of | 5          | Tentative ID               | MW MolForm             | CAS# Qual      |
| 1       |            | Naphthalene, 2,3-dimethyl- | 156 C12H12             | 000581-40-8 97 |
| 2       |            | Naphthalene, 1,3-dimethyl- | 156 C12H12             | 000575-41-7 97 |
| 3       |            | Naphthalene, 1,3-dimethyl- | 156 C12H12             | 000575-41-7 97 |
| 4       |            | Naphthalene, 1,7-dimethyl- | 156 C12H12             | 000575-37-1 96 |
| 5       |            | Naphthalene, 1,8-dimethyl- | 156 C12H12             | 000569-41-5 96 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_V\DATA\VV031619\  
 Data File : VV009715.D  
 Acq On : 16 Mar 2019 03:41  
 Operator : SY/MD  
 Sample : K1936-02  
 Misc : 5.62g/5.0mL/100uL/5.0mL/MSVOA\_V/MEOH  
 ALS Vial : 33 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BF0T9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM031219WMA.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 |
| (DEL) Alkane: Cyc... | 8.40  | 4.1     | ug/L  | 47561    | 2                     | 8.90  | 582830 | 50.0 |
| Formic acid, 2-me... | 8.71  | 2.6     | ug/L  | 30264    | 2                     | 8.90  | 582830 | 50.0 |
| (DEL) Alkane: Str... | 8.83  | 3.1     | ug/L  | 36412    | 2                     | 8.90  | 582830 | 50.0 |
| (DEL) Alkane: Str... | 9.25  | 10.3    | ug/L  | 119802   | 2                     | 8.90  | 582830 | 50.0 |
| (DEL) Alkane: Cyc... | 9.52  | 4.0     | ug/L  | 46339    | 2                     | 8.90  | 582830 | 50.0 |
| (DEL) Alkane: Str... | 9.76  | 8.2     | ug/L  | 95056    | 2                     | 8.90  | 582830 | 50.0 |
| (DEL) Alkane: Cyc... | 9.85  | 5.3     | ug/L  | 61367    | 2                     | 8.90  | 582830 | 50.0 |
| Benzene, propyl-     | 10.40 | 3.0     | ug/L  | 39235    | 3                     | 11.30 | 657456 | 50.0 |
| Benzene, 1-ethyl-... | 10.50 | 12.0    | ug/L  | 157760   | 3                     | 11.30 | 657456 | 50.0 |
| (DEL) Alkane: Str... | 10.62 | 16.4    | ug/L  | 214923   | 3                     | 11.30 | 657456 | 50.0 |
| (DEL) Alkane: Str... | 10.92 | 7.4     | ug/L  | 96786    | 3                     | 11.30 | 657456 | 50.0 |
| (DEL) Alkane: Cyc... | 11.20 | 4.8     | ug/L  | 63395    | 3                     | 11.30 | 657456 | 50.0 |
| Benzene, 1,2,3-tr... | 11.38 | 10.7    | ug/L  | 140959   | 3                     | 11.30 | 657456 | 50.0 |
| (DEL) Alkane: Str... | 11.51 | 4.9     | ug/L  | 64024    | 3                     | 11.30 | 657456 | 50.0 |
| Benzene, 1,2-diet... | 11.59 | 5.9     | ug/L  | 77475    | 3                     | 11.30 | 657456 | 50.0 |
| (DEL) Alkane: Str... | 11.84 | 22.9    | ug/L  | 300655   | 3                     | 11.30 | 657456 | 50.0 |
| Benzene, 2-ethyl-... | 11.96 | 5.2     | ug/L  | 68816    | 3                     | 11.30 | 657456 | 50.0 |
| 1H-Indene, 2,3-di... | 12.17 | 8.2     | ug/L  | 108324   | 3                     | 11.30 | 657456 | 50.0 |
| (DEL) Alkane: Cyc... | 12.42 | 10.2    | ug/L  | 133607   | 3                     | 11.30 | 657456 | 50.0 |
| Benzene, 1,2,4,5-... | 12.51 | 14.9    | ug/L  | 196246   | 3                     | 11.30 | 657456 | 50.0 |
| (DEL) Alkane: Str... | 12.93 | 42.6    | ug/L  | 560062   | 3                     | 11.30 | 657456 | 50.0 |
| Naphthalene, 1,2,... | 13.09 | 18.6    | ug/L  | 245202   | 3                     | 11.30 | 657456 | 50.0 |
| (DEL) Alkane: Str... | 13.95 | 26.4    | ug/L  | 346840   | 3                     | 11.30 | 657456 | 50.0 |
| Naphthalene, 2,3-... | 15.86 | 17.4    | ug/L  | 228326   | 3                     | 11.30 | 657456 | 50.0 |