

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU042719\  
 Data File : VU031532.D  
 Acq On : 26 Apr 2019 14:56  
 Operator : JC/SP  
 Sample : K2481-22ME 5X  
 Misc : 5.10g/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 GAHX5ME

## 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\_U\METHOD\SOMULM042719WMA.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         | 1.180       | 24            | 28          | 33           | rVB3     | 16665          | 15707         | 0.02%           | 0.004%        |
| 2         | 1.396       | 87            | 95          | 107          | rBV      | 524633         | 599093        | 0.63%           | 0.168%        |
| 3         | 1.678       | 176           | 183         | 194          | rBV      | 383067         | 496906        | 0.52%           | 0.139%        |
| 4         | 2.264       | 354           | 365         | 379          | rVB      | 894224         | 1355574       | 1.42%           | 0.380%        |
| 5         | 2.460       | 423           | 426         | 429          | rVV4     | 2039           | 1659          | 0.00%           | 0.000%        |
| 6         | 2.598       | 464           | 469         | 473          | rBV7     | 1626           | 2095          | 0.00%           | 0.001%        |
| 7         | 2.640       | 476           | 482         | 485          | rVB6     | 1943           | 2523          | 0.00%           | 0.001%        |
| 8         | 2.701       | 494           | 501         | 509          | rBV6     | 3949           | 6678          | 0.01%           | 0.002%        |
| 9         | 2.813       | 533           | 536         | 539          | rBV4     | 1279           | 1183          | 0.00%           | 0.000%        |
| 10        | 2.977       | 585           | 587         | 591          | rVB3     | 2134           | 1314          | 0.00%           | 0.000%        |
| 11        | 3.238       | 666           | 668         | 671          | rVV      | 1861           | 1415          | 0.00%           | 0.000%        |
| 12        | 3.289       | 680           | 684         | 692          | rVB3     | 1830           | 2732          | 0.00%           | 0.001%        |
| 13        | 3.341       | 697           | 700         | 704          | rBV4     | 1298           | 1170          | 0.00%           | 0.000%        |
| 14        | 3.588       | 774           | 777         | 782          | rVB4     | 1713           | 1271          | 0.00%           | 0.000%        |
| 15        | 3.981       | 896           | 899         | 905          | rVB4     | 1443           | 1215          | 0.00%           | 0.000%        |
| 16        | 4.090       | 930           | 933         | 937          | rVB2     | 1409           | 1281          | 0.00%           | 0.000%        |
| 17        | 4.122       | 937           | 943         | 945          | rBV4     | 1362           | 1300          | 0.00%           | 0.000%        |
| 18        | 4.196       | 952           | 966         | 1000         | rBV      | 275329         | 960343        | 1.01%           | 0.270%        |
| 19        | 4.540       | 1069          | 1073        | 1076         | rBV4     | 1400           | 1191          | 0.00%           | 0.000%        |
| 20        | 4.643       | 1086          | 1105        | 1130         | rBV      | 584211         | 1389557       | 1.46%           | 0.390%        |
| 21        | 4.868       | 1171          | 1175        | 1177         | rBV3     | 1968           | 1494          | 0.00%           | 0.000%        |
| 22        | 4.958       | 1200          | 1203        | 1207         | rBV2     | 1480           | 1491          | 0.00%           | 0.000%        |
| 23        | 5.000       | 1213          | 1216        | 1221         | rVB5     | 2482           | 1872          | 0.00%           | 0.001%        |
| 24        | 5.151       | 1259          | 1263        | 1269         | rVB4     | 2298           | 2859          | 0.00%           | 0.001%        |
| 25        | 5.334       | 1297          | 1320        | 1353         | rBV2     | 1278645        | 3756862       | 3.94%           | 1.054%        |
| 26        | 5.743       | 1441          | 1447        | 1454         | rVB7     | 2492           | 4114          | 0.00%           | 0.001%        |
| 27        | 5.781       | 1454          | 1459        | 1464         | rBV7     | 1961           | 2248          | 0.00%           | 0.001%        |
| 28        | 5.807       | 1464          | 1467        | 1473         | rVB4     | 2264           | 2171          | 0.00%           | 0.001%        |
| 29        | 5.881       | 1473          | 1490        | 1523         | rBV      | 1090587        | 2250817       | 2.36%           | 0.632%        |
| 30        | 6.180       | 1571          | 1583        | 1597         | rVB      | 7180           | 17392         | 0.02%           | 0.005%        |
| 31        | 6.328       | 1613          | 1629        | 1651         | rBV      | 804026         | 1663621       | 1.75%           | 0.467%        |
| 32        | 6.878       | 1793          | 1800        | 1801         | rBV3     | 2356           | 2340          | 0.00%           | 0.001%        |
| 33        | 7.022       | 1841          | 1845        | 1851         | rVB5     | 1806           | 1491          | 0.00%           | 0.000%        |
| 34        | 7.099       | 1866          | 1869        | 1873         | rBV5     | 1417           | 1131          | 0.00%           | 0.000%        |

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 ClientSampleId :  
 GAHX5ME

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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\_U\METHOD\SOMULM042719WMA.M  
 Title : VOC Analysis

|    |        |      |      |      |      |         |         |       |        |
|----|--------|------|------|------|------|---------|---------|-------|--------|
| 35 | 7.177  | 1886 | 1893 | 1896 | rVV6 | 5196    | 6261    | 0.01% | 0.002% |
| 36 | 7.225  | 1897 | 1908 | 1936 | rVB  | 456936  | 843070  | 0.88% | 0.237% |
| 37 | 7.415  | 1964 | 1967 | 1968 | rBV3 | 2236    | 1241    | 0.00% | 0.000% |
| 38 | 7.479  | 1981 | 1987 | 1990 | rBV5 | 1289    | 1417    | 0.00% | 0.000% |
| 39 | 7.562  | 1990 | 2013 | 2025 | rBV  | 1583327 | 2857183 | 3.00% | 0.802% |
| 40 | 7.633  | 2026 | 2035 | 2062 | rVB  | 967306  | 1803384 | 1.89% | 0.506% |
| 41 | 7.849  | 2085 | 2102 | 2117 | rBV  | 307448  | 579060  | 0.61% | 0.163% |
| 42 | 8.096  | 2176 | 2179 | 2181 | rBV3 | 2543    | 1768    | 0.00% | 0.000% |
| 43 | 8.215  | 2213 | 2216 | 2217 | rBV2 | 2843    | 1545    | 0.00% | 0.000% |
| 44 | 8.318  | 2236 | 2248 | 2286 | rBV  | 1164054 | 2263457 | 2.38% | 0.635% |
| 45 | 8.543  | 2311 | 2318 | 2327 | rVB3 | 19583   | 32189   | 0.03% | 0.009% |
| 46 | 8.604  | 2329 | 2337 | 2347 | rVV6 | 23281   | 36441   | 0.04% | 0.010% |
| 47 | 8.746  | 2374 | 2381 | 2382 | rBV7 | 13015   | 12211   | 0.01% | 0.003% |
| 48 | 8.820  | 2397 | 2404 | 2407 | rBV6 | 8427    | 13116   | 0.01% | 0.004% |
| 49 | 8.906  | 2425 | 2431 | 2442 | rVB2 | 28893   | 44603   | 0.05% | 0.013% |
| 50 | 9.029  | 2462 | 2469 | 2476 | rBV2 | 30278   | 44322   | 0.05% | 0.012% |
| 51 | 9.087  | 2476 | 2487 | 2511 | rBV  | 1552208 | 2668985 | 2.80% | 0.749% |
| 52 | 9.247  | 2527 | 2537 | 2559 | rBV  | 497973  | 860796  | 0.90% | 0.242% |
| 53 | 9.369  | 2563 | 2575 | 2590 | rVV  | 4308616 | 7380143 | 7.75% | 2.071% |
| 54 | 9.440  | 2592 | 2597 | 2619 | rVV  | 292309  | 463397  | 0.49% | 0.130% |
| 55 | 9.546  | 2622 | 2630 | 2651 | rVB6 | 47692   | 113833  | 0.12% | 0.032% |
| 56 | 9.717  | 2673 | 2683 | 2684 | rBV5 | 47325   | 56915   | 0.06% | 0.016% |
| 57 | 9.781  | 2691 | 2703 | 2737 | rVB4 | 2623372 | 5454882 | 5.73% | 1.531% |
| 58 | 9.948  | 2749 | 2755 | 2764 | rVB3 | 92566   | 139601  | 0.15% | 0.039% |
| 59 | 10.164 | 2815 | 2822 | 2831 | rBV  | 46128   | 67939   | 0.07% | 0.019% |
| 60 | 10.431 | 2894 | 2905 | 2917 | rBV  | 1097781 | 1836159 | 1.93% | 0.515% |
| 61 | 10.585 | 2945 | 2953 | 2961 | rBV  | 153326  | 229092  | 0.24% | 0.064% |
| 62 | 10.678 | 2972 | 2982 | 2998 | rBV  | 1076666 | 2382819 | 2.50% | 0.669% |
| 63 | 10.768 | 2999 | 3010 | 3017 | rVV  | 1475994 | 2522869 | 2.65% | 0.708% |
| 64 | 10.810 | 3018 | 3023 | 3036 | rVB  | 693303  | 967314  | 1.02% | 0.271% |
| 65 | 10.971 | 3064 | 3073 | 3075 | rBV  | 377239  | 502559  | 0.53% | 0.141% |
| 66 | 11.144 | 3110 | 3127 | 3139 | rBV  | 4255081 | 6753083 | 7.09% | 1.895% |
| 67 | 11.212 | 3139 | 3148 | 3157 | rVV  | 1877181 | 2834639 | 2.98% | 0.796% |
| 68 | 11.263 | 3157 | 3164 | 3176 | rVB  | 646029  | 972603  | 1.02% | 0.273% |
| 69 | 11.398 | 3196 | 3206 | 3221 | rBV  | 1564822 | 2694482 | 2.83% | 0.756% |
| 70 | 11.479 | 3222 | 3231 | 3242 | rVV  | 1762928 | 2713392 | 2.85% | 0.762% |
| 71 | 11.566 | 3250 | 3258 | 3267 | rBV  | 1373526 | 1998133 | 2.10% | 0.561% |

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 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 GAHX5ME

## 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\_U\METHOD\SOMULM042719WMA.M  
 Title : VOC Analysis

|     |        |      |      |      |      |          |          |         |         |
|-----|--------|------|------|------|------|----------|----------|---------|---------|
| 72  | 11.762 | 3310 | 3319 | 3328 | rBV  | 696456   | 1261655  | 1.32%   | 0.354%  |
| 73  | 11.858 | 3339 | 3349 | 3366 | rVB4 | 2016682  | 3902918  | 4.10%   | 1.095%  |
| 74  | 11.977 | 3374 | 3386 | 3395 | rBV  | 12696388 | 19796759 | 20.78%  | 5.556%  |
| 75  | 12.144 | 3431 | 3438 | 3441 | rBV  | 262737   | 351271   | 0.37%   | 0.099%  |
| 76  | 12.221 | 3456 | 3462 | 3464 | rBV2 | 288504   | 334941   | 0.35%   | 0.094%  |
| 77  | 12.594 | 3570 | 3578 | 3587 | rBV2 | 655942   | 1256127  | 1.32%   | 0.353%  |
| 78  | 12.694 | 3600 | 3609 | 3629 | rVB2 | 2297666  | 4591437  | 4.82%   | 1.289%  |
| 79  | 12.823 | 3643 | 3649 | 3660 | rVB4 | 456429   | 714284   | 0.75%   | 0.200%  |
| 80  | 12.961 | 3685 | 3692 | 3706 | rVB3 | 550806   | 833370   | 0.87%   | 0.234%  |
| 81  | 13.119 | 3733 | 3741 | 3751 | rBV2 | 3353890  | 5026378  | 5.28%   | 1.411%  |
| 82  | 13.180 | 3752 | 3760 | 3772 | rVB  | 4030179  | 6199211  | 6.51%   | 1.740%  |
| 83  | 13.286 | 3783 | 3793 | 3812 | rBV2 | 4749761  | 8353768  | 8.77%   | 2.345%  |
| 84  | 13.742 | 3922 | 3935 | 3958 | rVB2 | 53375262 | 95273538 | 100.00% | 26.739% |
| 85  | 13.858 | 3963 | 3971 | 3992 | rVB  | 2150191  | 4080001  | 4.28%   | 1.145%  |
| 86  | 14.138 | 4051 | 4058 | 4066 | rBV2 | 2002184  | 2800730  | 2.94%   | 0.786%  |
| 87  | 14.334 | 4111 | 4119 | 4129 | rBV5 | 1278885  | 2338000  | 2.45%   | 0.656%  |
| 88  | 14.874 | 4276 | 4287 | 4303 | rBV  | 31055570 | 48655791 | 51.07%  | 13.656% |
| 89  | 15.057 | 4334 | 4344 | 4361 | rBV  | 15300457 | 25796303 | 27.08%  | 7.240%  |
| 90  | 15.604 | 4507 | 4514 | 4524 | rVB  | 2332319  | 3680971  | 3.86%   | 1.033%  |
| 91  | 15.794 | 4567 | 4573 | 4581 | rBV  | 1634982  | 2275479  | 2.39%   | 0.639%  |
| 92  | 15.909 | 4598 | 4609 | 4623 | rBV  | 8623039  | 14726119 | 15.46%  | 4.133%  |
| 93  | 16.057 | 4645 | 4655 | 4661 | rBV  | 7951730  | 12439464 | 13.06%  | 3.491%  |
| 94  | 16.093 | 4662 | 4666 | 4683 | rVB  | 4679278  | 6810327  | 7.15%   | 1.911%  |
| 95  | 16.282 | 4710 | 4725 | 4736 | rBV  | 2416555  | 5431586  | 5.70%   | 1.524%  |
| 96  | 16.427 | 4763 | 4770 | 4782 | rVB  | 1201459  | 1821294  | 1.91%   | 0.511%  |
| 97  | 16.524 | 4790 | 4800 | 4816 | rVB3 | 3020901  | 5430814  | 5.70%   | 1.524%  |
| 98  | 17.028 | 4946 | 4957 | 4977 | rVB3 | 1656414  | 4327477  | 4.54%   | 1.215%  |
| 99  | 17.163 | 4992 | 4999 | 5009 | rVB  | 1126686  | 1714202  | 1.80%   | 0.481%  |
| 100 | 17.224 | 5011 | 5018 | 5028 | rVV2 | 910518   | 1370201  | 1.44%   | 0.385%  |

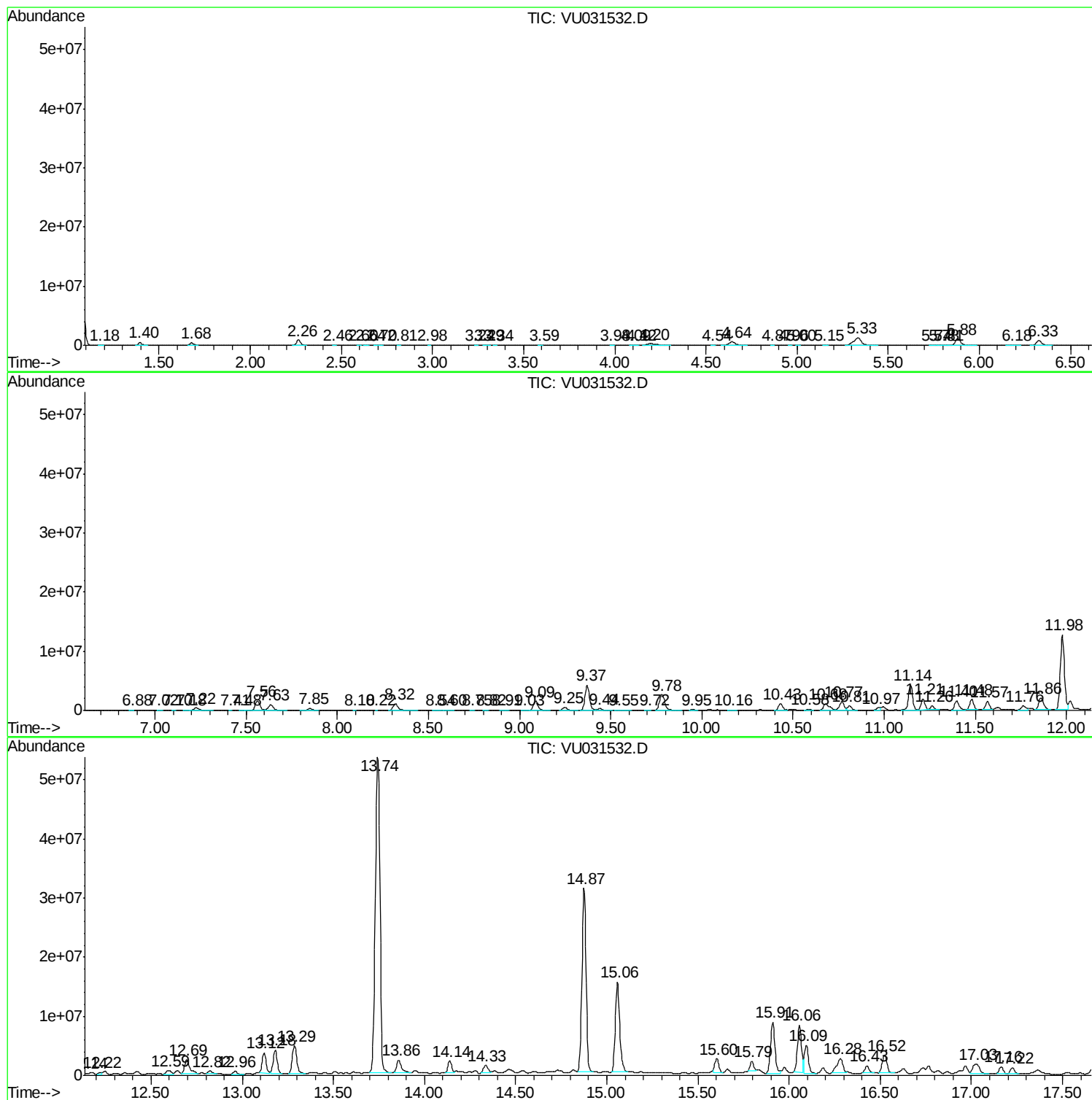
Sum of corrected areas: 356303429

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Instrument :  
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ClientSampleId :  
GAHX5ME

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM042719WMA.M  
Quant Title : VOC Analysis

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



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU042719\  
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM042719WMA.M  
Quant Title : VOC Analysis

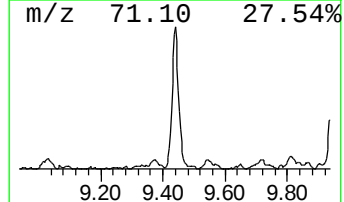
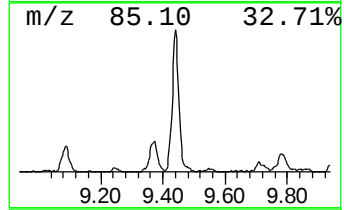
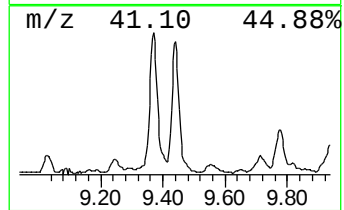
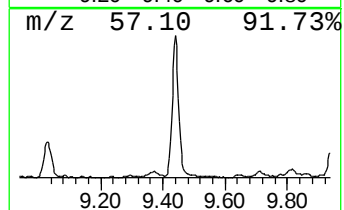
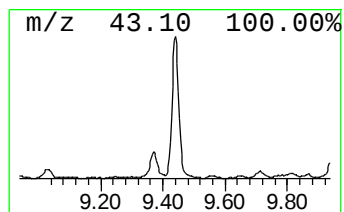
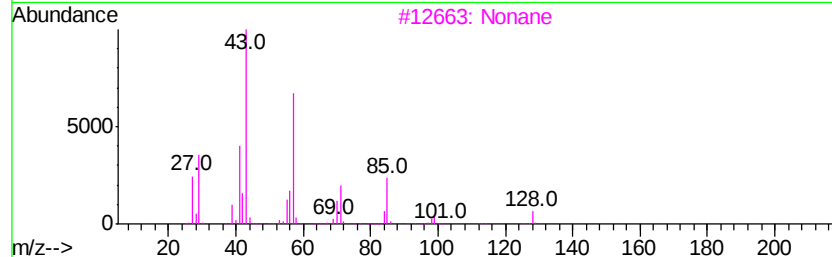
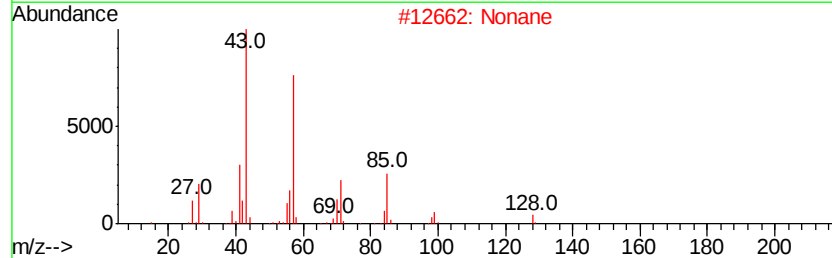
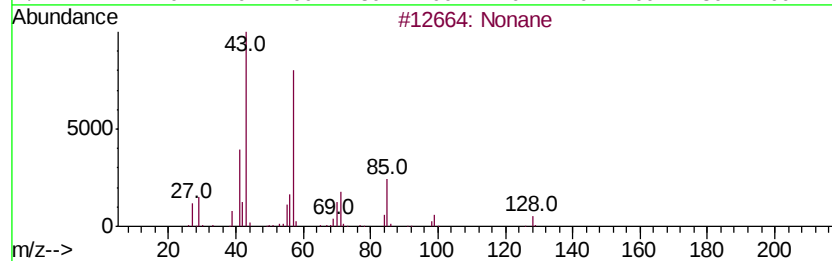
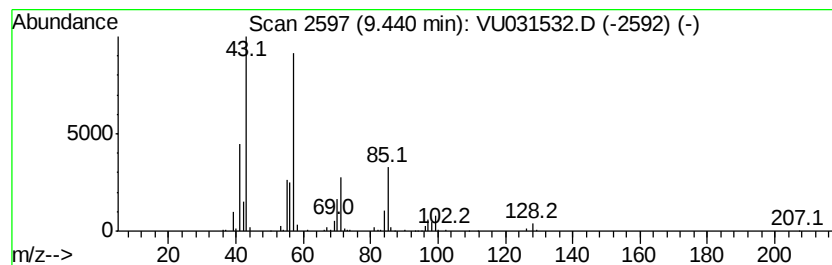
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 2 (DEL) Alkane: Straight-Chai... Concentration Rank 37

| R.T. | EstConc   | Area   | Relative to ISTD | R.T. |
|------|-----------|--------|------------------|------|
| 9.44 | 8.68 ug/L | 463397 | Chlorobenzene-d5 | 9.09 |

| Hit# | of | Tentative ID             | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------|-----|---------|-------------|------|
| 1    | 5  | Nonane                   | 128 | C9H20   | 000111-84-2 | 91   |
| 2    |    | Nonane                   | 128 | C9H20   | 000111-84-2 | 87   |
| 3    |    | Nonane                   | 128 | C9H20   | 000111-84-2 | 64   |
| 4    |    | Octane, 2,4,6-trimethyl- | 156 | C11H24  | 062016-37-9 | 59   |
| 5    |    | 1-Iodo-2-methylundecane  | 296 | C12H25I | 073105-67-6 | 59   |



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Instrument :  
MSVOA\_U  
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GAHX5ME

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM042719WMA.M  
Quant Title : VOC Analysis

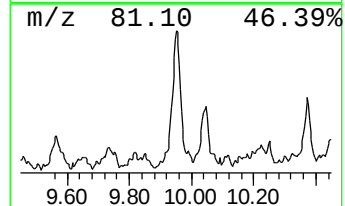
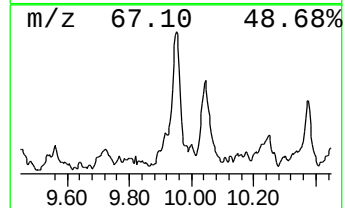
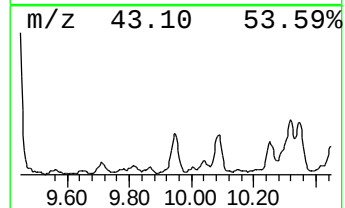
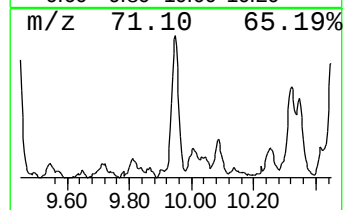
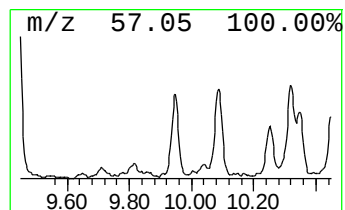
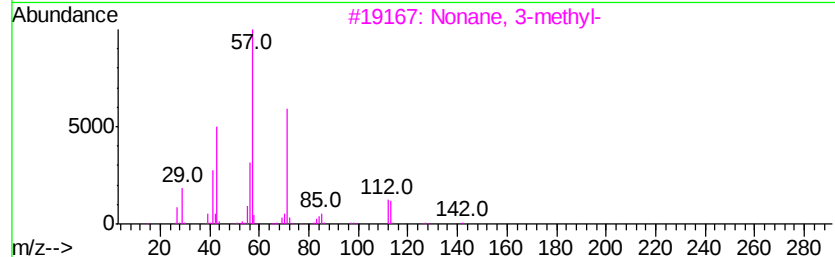
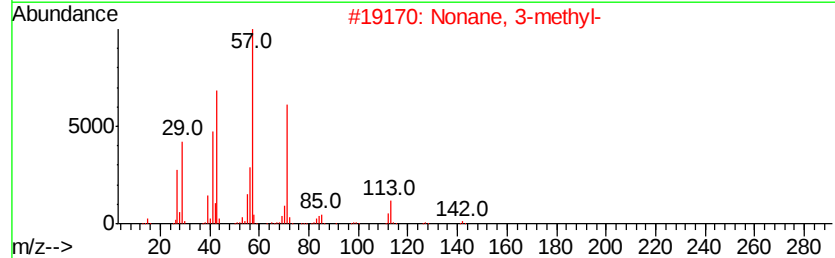
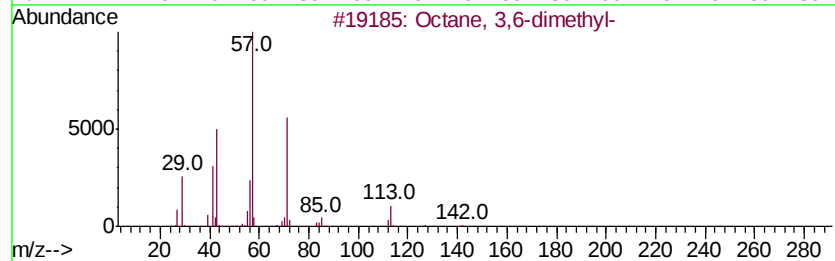
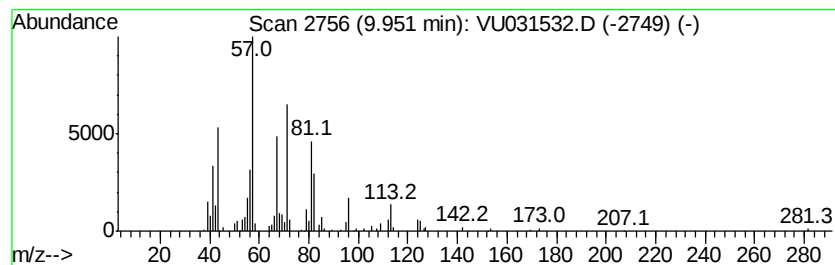
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 (DEL) Alkane: Straight-Chai... Concentration Rank 41

| R.T. | EstConc   | Area   | Relative to ISTD | R.T. |
|------|-----------|--------|------------------|------|
| 9.95 | 2.62 ug/L | 139601 | Chlorobenzene-d5 | 9.09 |

| Hit# | of | 5 | Tentative ID          | MW  | MolForm | CAS#        | Qual |
|------|----|---|-----------------------|-----|---------|-------------|------|
| 1    |    |   | Octane, 3,6-dimethyl- | 142 | C10H22  | 015869-94-0 | 50   |
| 2    |    |   | Nonane, 3-methyl-     | 142 | C10H22  | 005911-04-6 | 50   |
| 3    |    |   | Nonane, 3-methyl-     | 142 | C10H22  | 005911-04-6 | 45   |
| 4    |    |   | Octane, 2,6-dimethyl- | 142 | C10H22  | 002051-30-1 | 43   |
| 5    |    |   | Nonane, 3-methyl-     | 142 | C10H22  | 005911-04-6 | 43   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU042719\  
Data File : VU031532.D  
Acq On : 26 Apr 2019 14:56  
Operator : JC/SP  
Sample : K2481-22ME 5X  
Misc : 5.10µ/5mL/100µL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 14 Sample Multiplier: 1

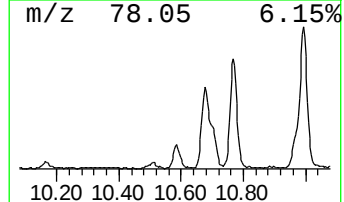
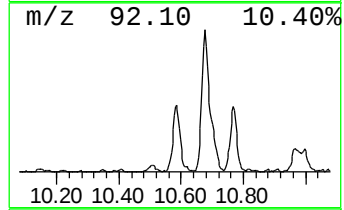
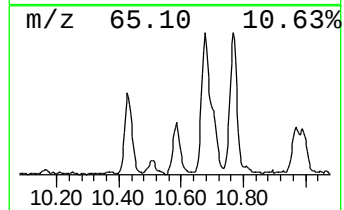
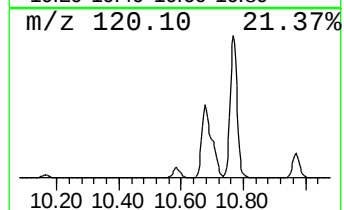
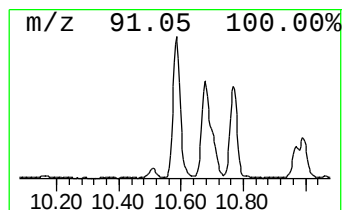
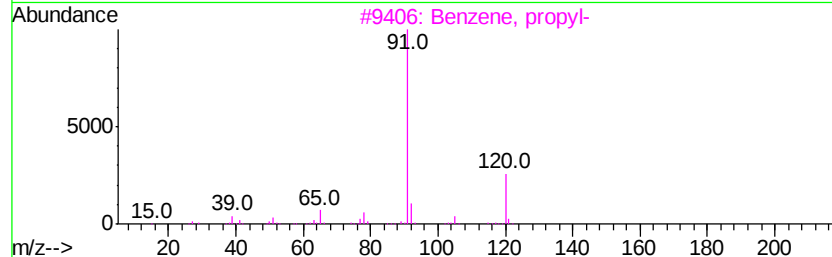
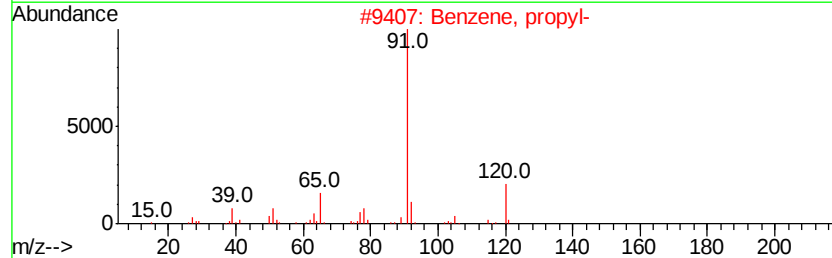
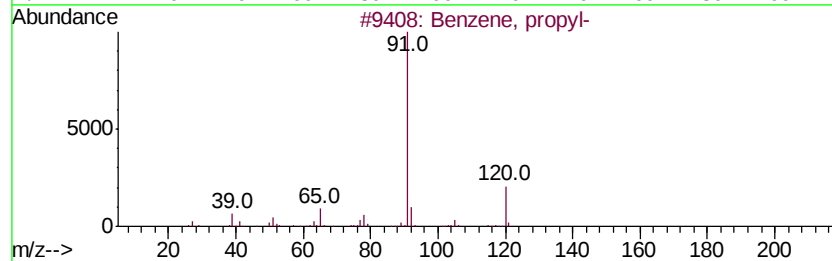
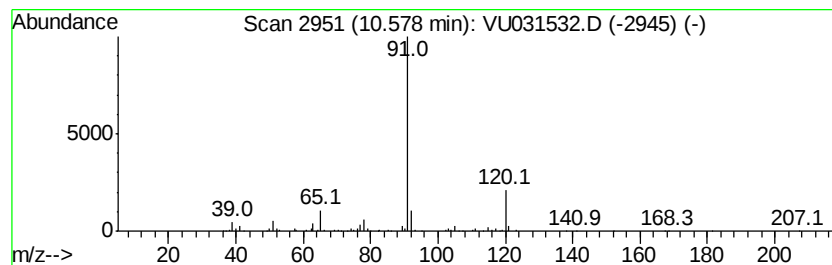
Instrument :  
MSVOA\_U  
ClientSampleId :  
GAHX5ME

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM042719WMA.M  
Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 4 Benzene, propyl- Concentration Rank 40

| R.T.    | EstConc   | Area                                 | Relative to ISTD       | R.T.           |
|---------|-----------|--------------------------------------|------------------------|----------------|
| 10.58   | 4.22 ug/L | 229092                               | 1,4-Dichlorobenzene-d4 | 11.48          |
| Hit# of | 5         | Tentative ID                         | MW MolForm             | CAS# Qual      |
| 1       |           | Benzene, propyl-                     | 120 C9H12              | 000103-65-1 90 |
| 2       |           | Benzene, propyl-                     | 120 C9H12              | 000103-65-1 86 |
| 3       |           | Benzene, propyl-                     | 120 C9H12              | 000103-65-1 80 |
| 4       |           | N-Benzyl-2-phenethylamine            | 211 C15H17N            | 003647-71-0 78 |
| 5       |           | Propanenitrile, 3-[(phenylmethyl...] | 160 C10H12N2           | 000706-03-6 64 |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU042719\  
Data File : VU031532.D  
Acq On : 26 Apr 2019 14:56  
Operator : JC/SP  
Sample : K2481-22ME 5X  
Misc : 5.10µ/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
GAHX5ME

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM042719WMA.M  
Quant Title : VOC Analysis

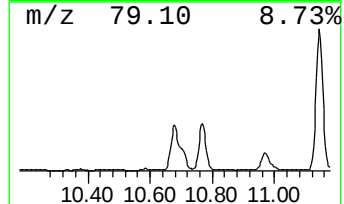
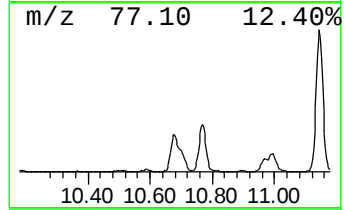
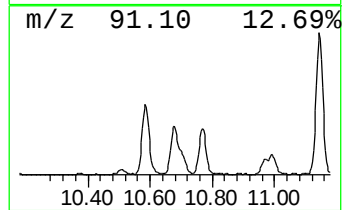
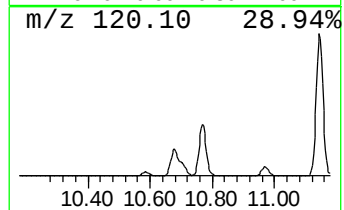
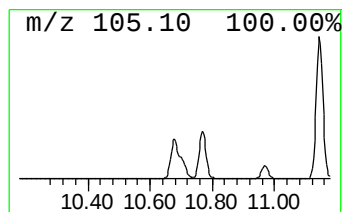
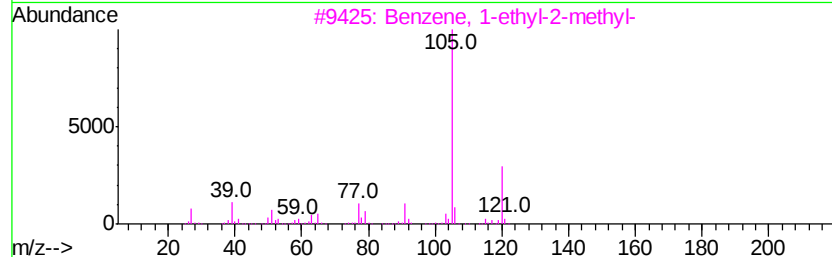
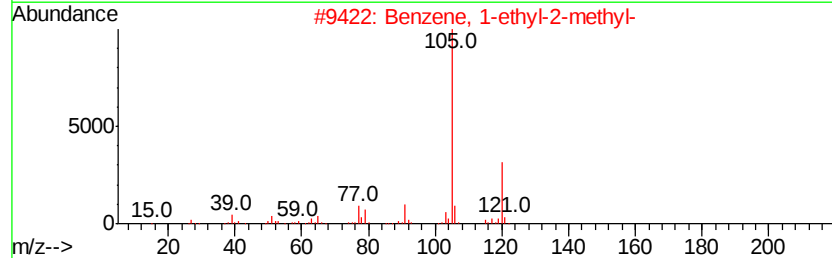
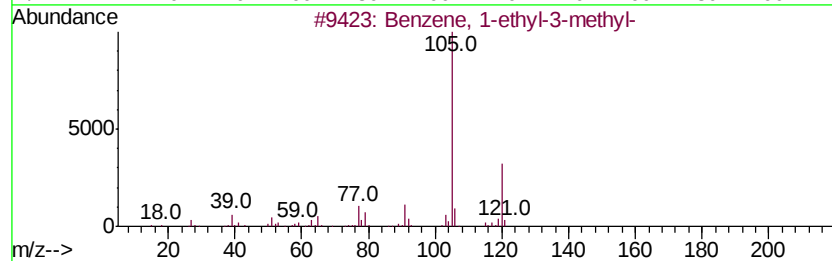
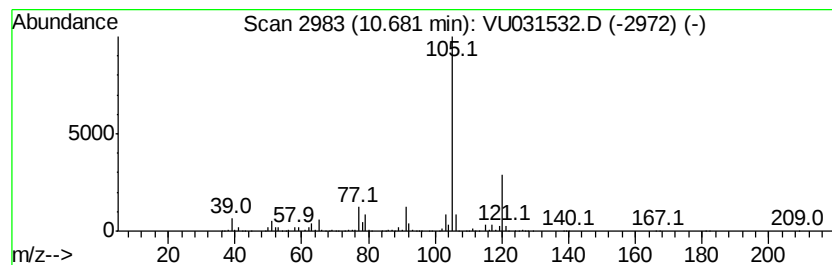
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 5 Benzene, 1-ethyl-3-methyl- Concentration Rank 22

| R.T.  | EstConc    | Area    | Relative to ISTD       | R.T.  |
|-------|------------|---------|------------------------|-------|
| 10.68 | 43.91 ug/L | 2382820 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# of | 5                          | Tentative ID | MW    | MolForm     | CAS# | Qual |
|---------|----------------------------|--------------|-------|-------------|------|------|
| 1       | Benzene, 1-ethyl-3-methyl- | 120          | C9H12 | 000620-14-4 | 95   |      |
| 2       | Benzene, 1-ethyl-2-methyl- | 120          | C9H12 | 000611-14-3 | 95   |      |
| 3       | Benzene, 1-ethyl-2-methyl- | 120          | C9H12 | 000611-14-3 | 95   |      |
| 4       | Benzene, 1-ethyl-3-methyl- | 120          | C9H12 | 000620-14-4 | 94   |      |
| 5       | Benzene, 1-ethyl-4-methyl- | 120          | C9H12 | 000622-96-8 | 91   |      |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU042719\  
Data File : VU031532.D  
Acq On : 26 Apr 2019 14:56  
Operator : JC/SP  
Sample : K2481-22ME 5X  
Misc : 5.10g/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
GAHX5ME

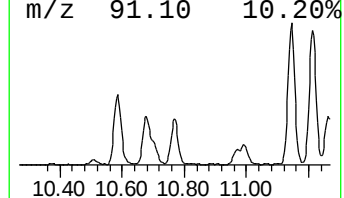
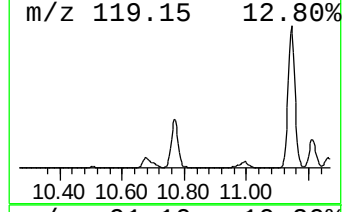
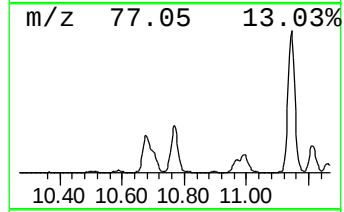
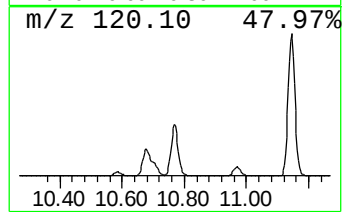
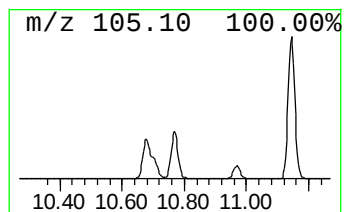
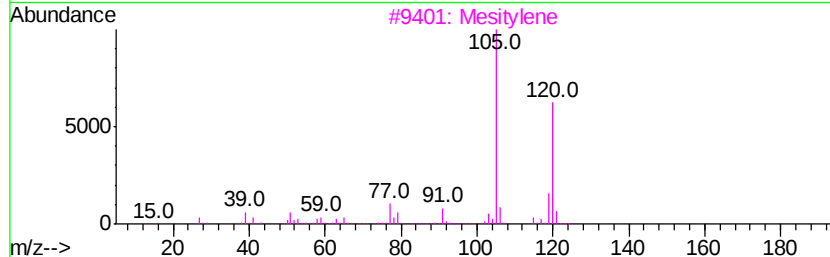
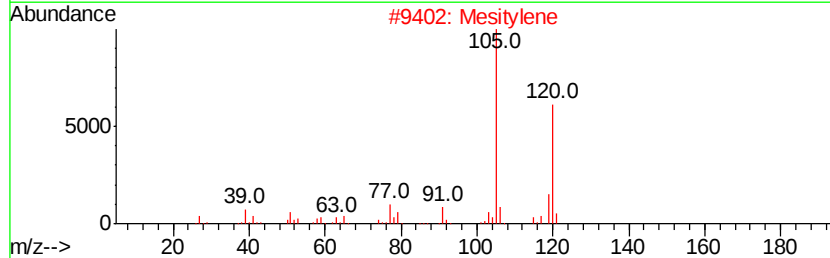
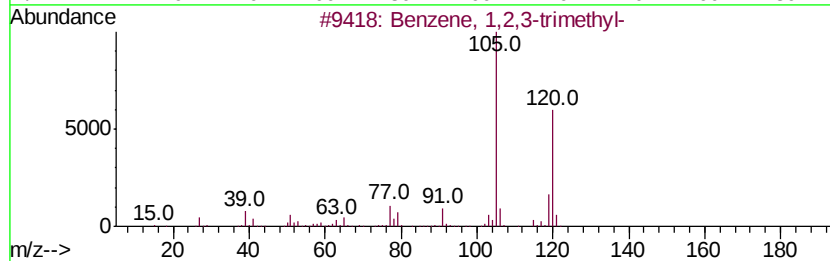
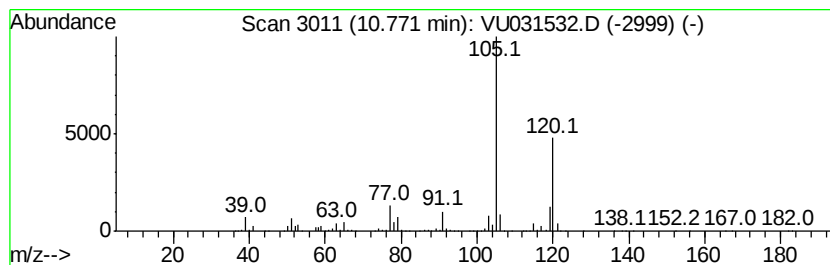
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Quant Title : VOC Analysis

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

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Peak Number 6 Benzene, 1,2,3-trimethyl- Concentration Rank 21

| R.T.  | EstConc    | Area    | Relative to ISTD       | R.T.  |
|-------|------------|---------|------------------------|-------|
| 10.77 | 46.49 ug/L | 2522870 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# | of | Tentative ID              | MW  | MolForm | CAS#        | Qual |
|------|----|---------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1,2,3-trimethyl- | 120 | C9H12   | 000526-73-8 | 97   |
| 2    |    | Mesitylene                | 120 | C9H12   | 000108-67-8 | 97   |
| 3    |    | Mesitylene                | 120 | C9H12   | 000108-67-8 | 95   |
| 4    |    | Mesitylene                | 120 | C9H12   | 000108-67-8 | 95   |
| 5    |    | Benzene, 1,2,3-trimethyl- | 120 | C9H12   | 000526-73-8 | 95   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU042719\  
Data File : VU031532.D  
Acq On : 26 Apr 2019 14:56  
Operator : JC/SP  
Sample : K2481-22ME 5X  
Misc : 5.10µ/5mL/100µL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
GAHX5ME

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM042719WMA.M  
Quant Title : VOC Analysis

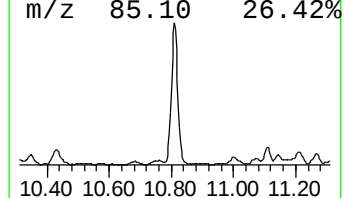
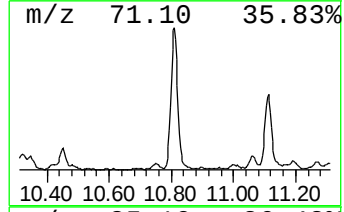
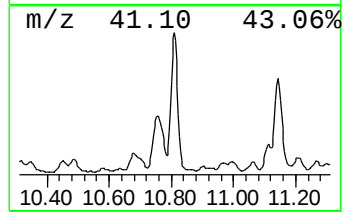
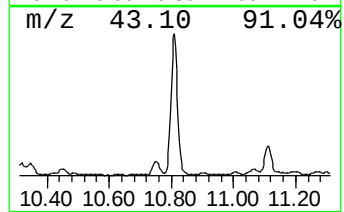
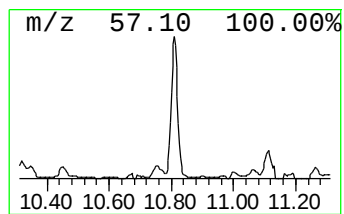
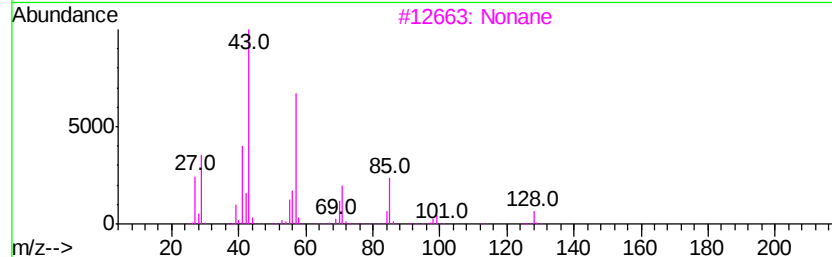
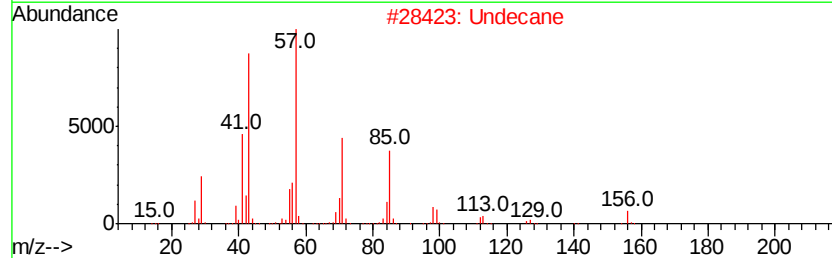
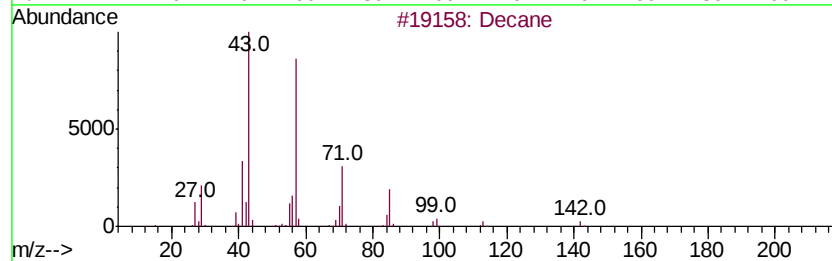
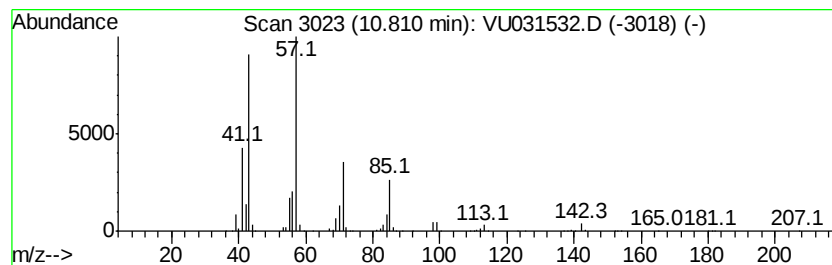
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 (DEL) Alkane: Straight-Chai... Concentration Rank 33

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 10.81 | 17.82 ug/L | 967314 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# | of | Tentative ID | MW  | MolForm | CAS#        | Qual |
|------|----|--------------|-----|---------|-------------|------|
| 1    | 5  | Decane       | 142 | C10H22  | 000124-18-5 | 93   |
| 2    |    | Undecane     | 156 | C11H24  | 001120-21-4 | 83   |
| 3    |    | Nonane       | 128 | C9H20   | 000111-84-2 | 83   |
| 4    |    | Octane       | 114 | C8H18   | 000111-65-9 | 72   |
| 5    |    | Undecane     | 156 | C11H24  | 001120-21-4 | 72   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU042719\  
Data File : VU031532.D  
Acq On : 26 Apr 2019 14:56  
Operator : JC/SP  
Sample : K2481-22ME 5X  
Misc : 5.10g/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
GAHX5ME

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM042719WMA.M  
Quant Title : VOC Analysis

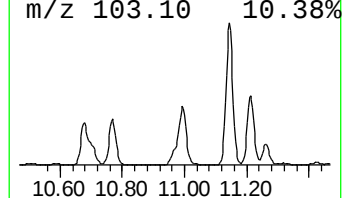
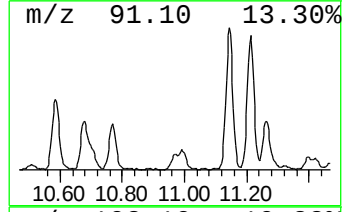
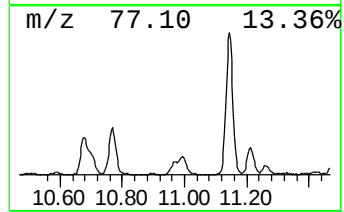
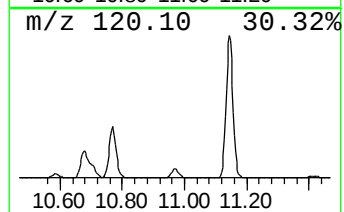
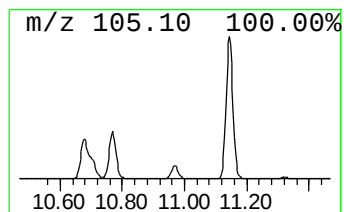
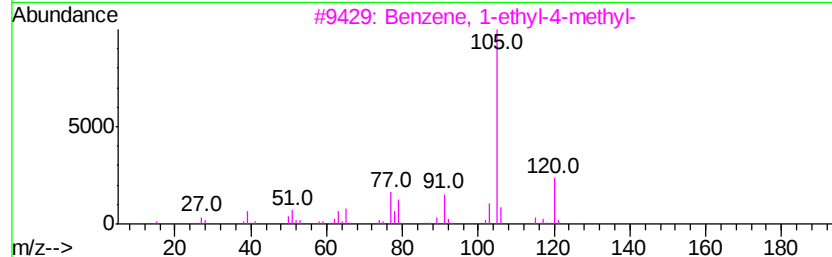
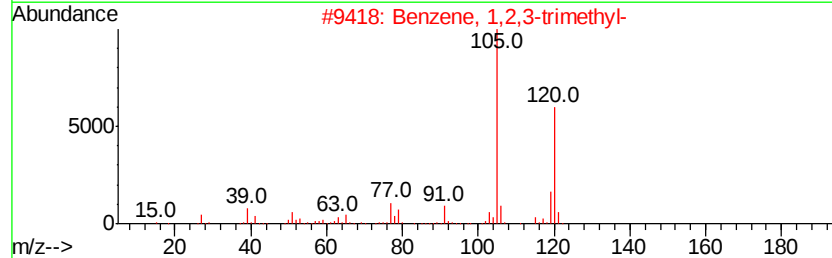
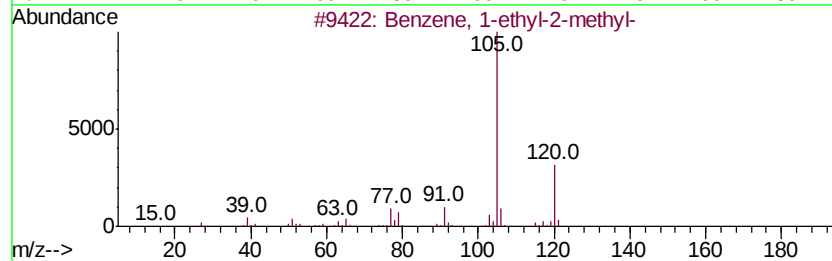
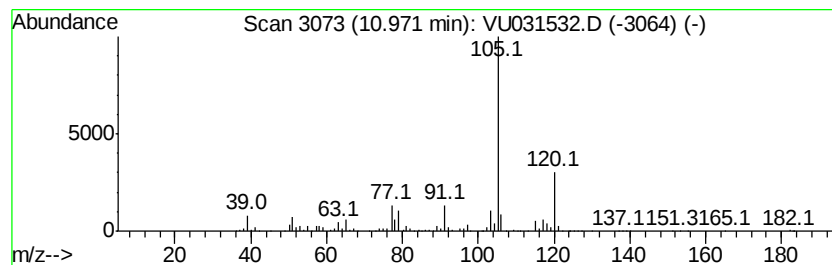
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 8 Benzene, 1-ethyl-2-methyl- Concentration Rank 36

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 10.97 | 9.26 ug/L | 502559 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# | of | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1-ethyl-2-methyl- | 120 | C9H12   | 000611-14-3 | 90   |
| 2    |    | Benzene, 1,2,3-trimethyl-  | 120 | C9H12   | 000526-73-8 | 90   |
| 3    |    | Benzene, 1-ethyl-4-methyl- | 120 | C9H12   | 000622-96-8 | 90   |
| 4    |    | Benzene, 1,2,3-trimethyl-  | 120 | C9H12   | 000526-73-8 | 87   |
| 5    |    | Mesitylene                 | 120 | C9H12   | 000108-67-8 | 87   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU042719\  
Data File : VU031532.D  
Acq On : 26 Apr 2019 14:56  
Operator : JC/SP  
Sample : K2481-22ME 5X  
Misc : 5.10µ/5mL/100µL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
GAHX5ME

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM042719WMA.M  
Quant Title : VOC Analysis

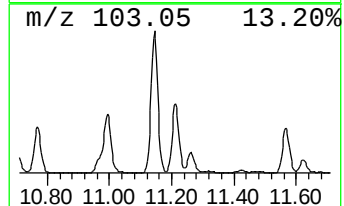
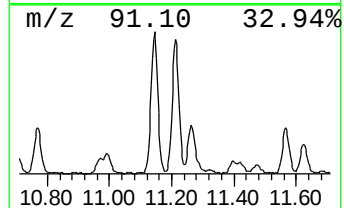
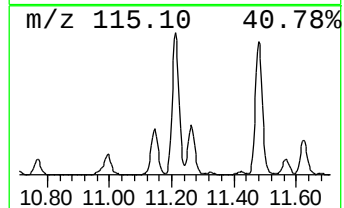
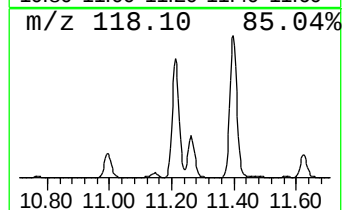
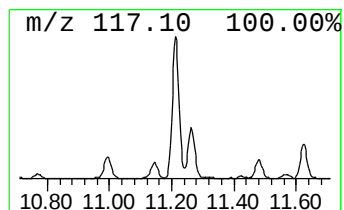
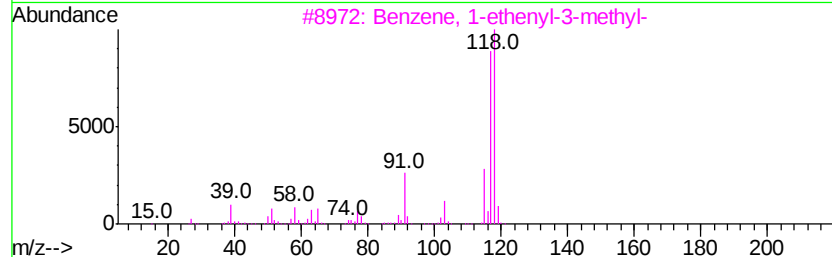
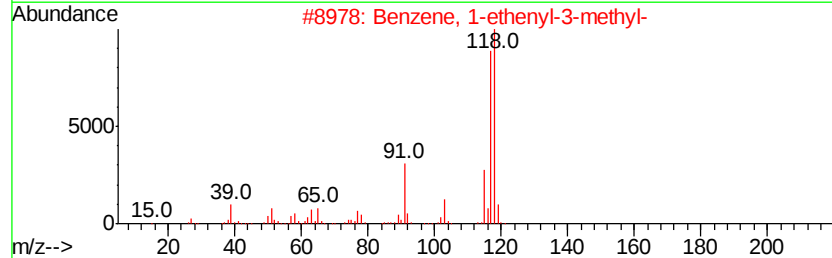
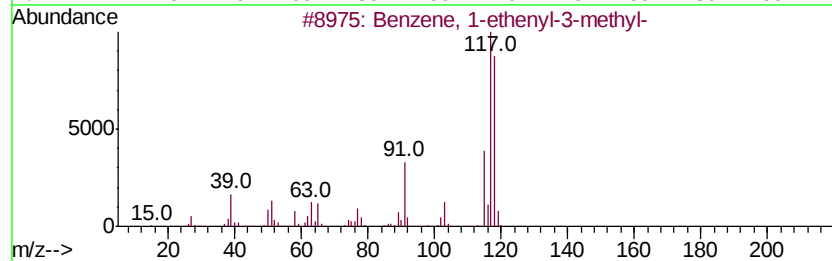
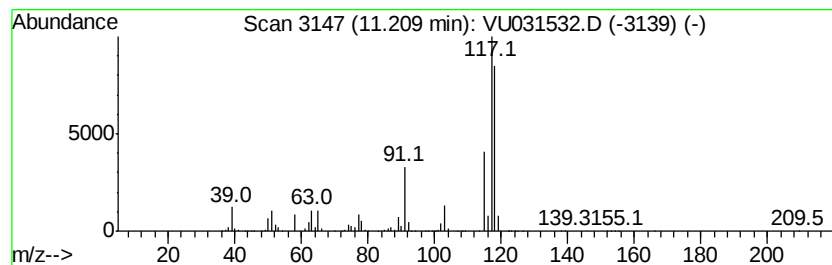
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 10 Benzene, 1-ethenyl-3-methyl- Concentration Rank 18

| R.T.  | EstConc    | Area    | Relative to ISTD       | R.T.  |
|-------|------------|---------|------------------------|-------|
| 11.21 | 52.23 ug/L | 2834640 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# | of | Tentative ID                 | MW  | MolForm | CAS#        | Qual |
|------|----|------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1-ethenyl-3-methyl- | 118 | C9H10   | 000100-80-1 | 96   |
| 2    |    | Benzene, 1-ethenyl-3-methyl- | 118 | C9H10   | 000100-80-1 | 96   |
| 3    |    | Benzene, 1-ethenyl-3-methyl- | 118 | C9H10   | 000100-80-1 | 95   |
| 4    |    | Benzene, 1-propenyl-         | 118 | C9H10   | 000637-50-3 | 94   |
| 5    |    | Benzene, 1-ethenyl-2-methyl- | 118 | C9H10   | 000611-15-4 | 94   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU042719\  
Data File : VU031532.D  
Acq On : 26 Apr 2019 14:56  
Operator : JC/SP  
Sample : K2481-22ME 5X  
Misc : 5.10µ/5mL/100µL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
GAHX5ME

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM042719WMA.M  
Quant Title : VOC Analysis

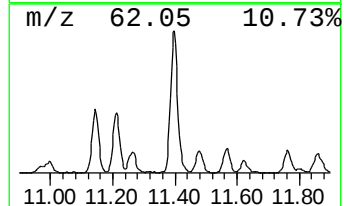
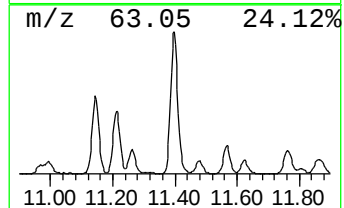
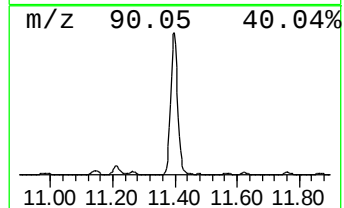
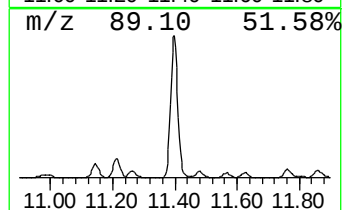
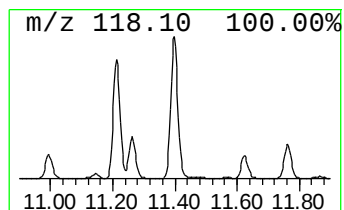
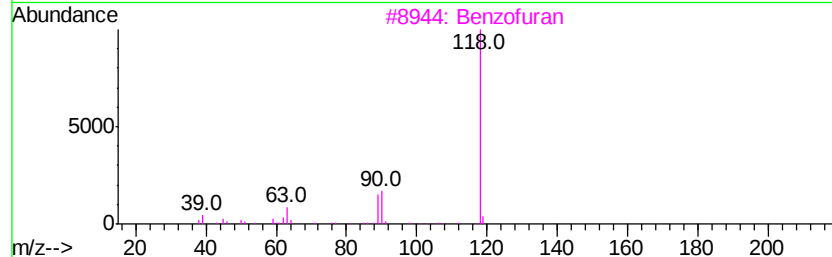
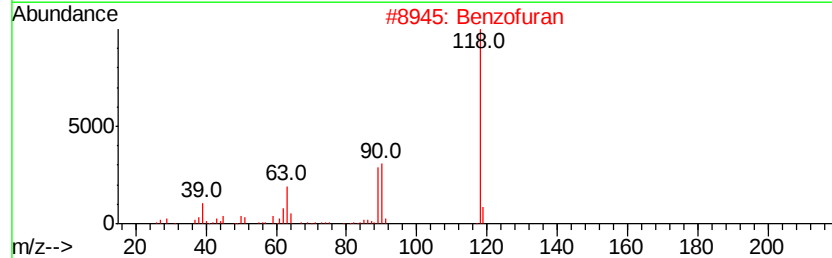
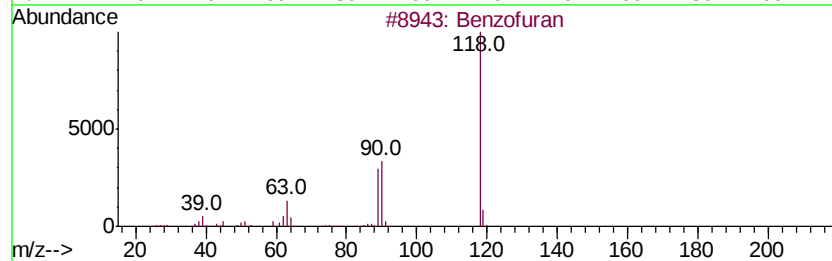
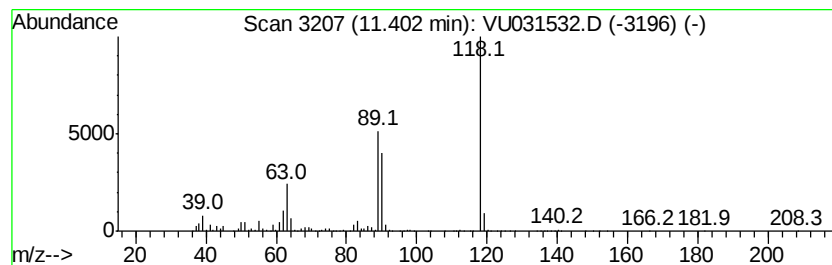
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 12 Benzofuran Concentration Rank 20

| R.T.  | EstConc    | Area    | Relative to ISTD       | R.T.  |
|-------|------------|---------|------------------------|-------|
| 11.40 | 49.65 ug/L | 2694480 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# | of | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzofuran                 | 118 | C8H6O   | 000271-89-6 | 93   |
| 2    |    | Benzofuran                 | 118 | C8H6O   | 000271-89-6 | 91   |
| 3    |    | Benzofuran                 | 118 | C8H6O   | 000271-89-6 | 90   |
| 4    |    | 2H-Cyclopenta[d]pyridazine | 118 | C7H6N2  | 000270-64-4 | 42   |
| 5    |    | 1H-Pyrrolo[2,3-b]pyridine  | 118 | C7H6N2  | 000271-63-6 | 40   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU042719\  
Data File : VU031532.D  
Acq On : 26 Apr 2019 14:56  
Operator : JC/SP  
Sample : K2481-22ME 5X  
Misc : 5.10µ/5mL/100µL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
GAHX5ME

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM042719WMA.M  
Quant Title : VOC Analysis

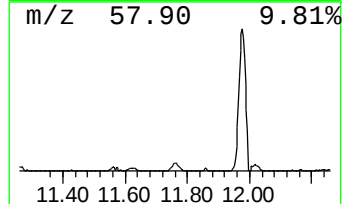
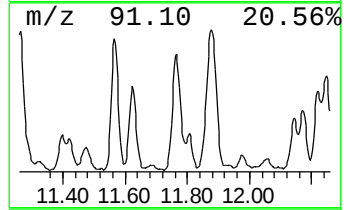
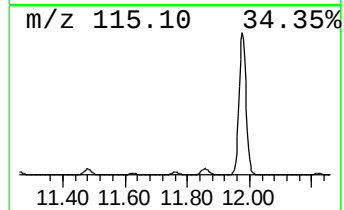
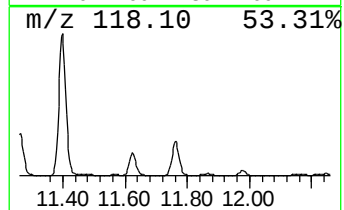
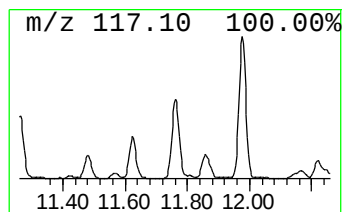
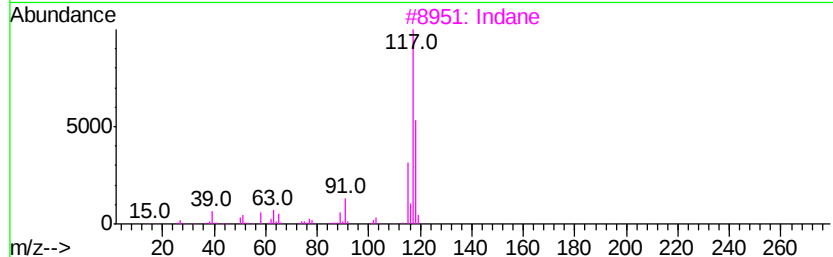
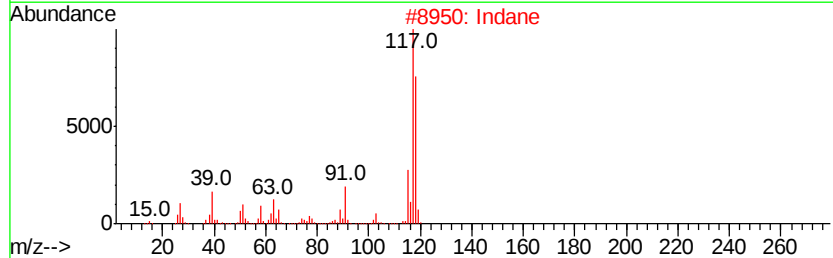
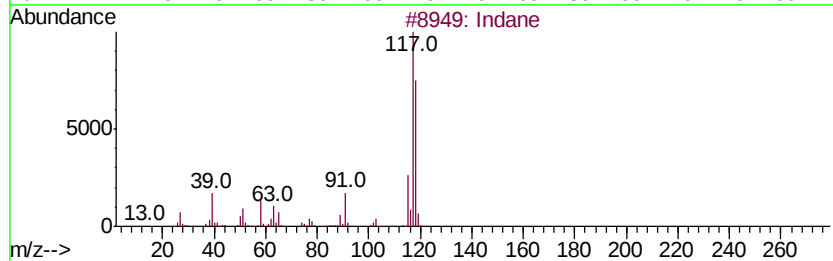
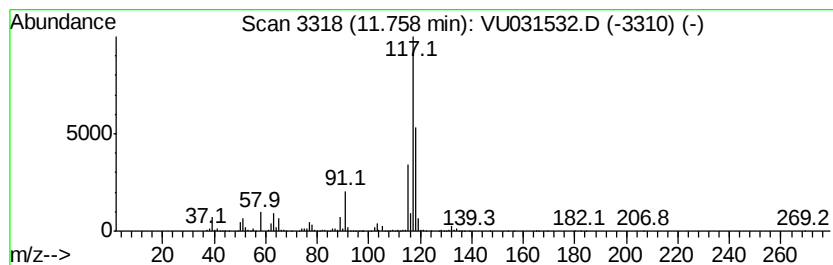
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 14 Indane Concentration Rank 29

| R.T.  | EstConc    | Area    | Relative to ISTD       | R.T.  |
|-------|------------|---------|------------------------|-------|
| 11.76 | 23.25 ug/L | 1261660 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# | of | Tentative ID        | MW  | MolForm | CAS#        | Qual |
|------|----|---------------------|-----|---------|-------------|------|
| 1    | 5  | Indane              | 118 | C9H10   | 000496-11-7 | 95   |
| 2    |    | Indane              | 118 | C9H10   | 000496-11-7 | 91   |
| 3    |    | Indane              | 118 | C9H10   | 000496-11-7 | 87   |
| 4    |    | Indane              | 118 | C9H10   | 000496-11-7 | 87   |
| 5    |    | (Z)-1-Phenylpropene | 118 | C9H10   | 000766-90-5 | 76   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU042719\  
Data File : VU031532.D  
Acq On : 26 Apr 2019 14:56  
Operator : JC/SP  
Sample : K2481-22ME 5X  
Misc : 5.10µ/5mL/100µL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
GAHX5ME

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM042719WMA.M  
Quant Title : VOC Analysis

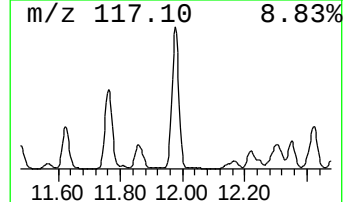
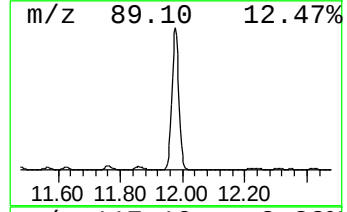
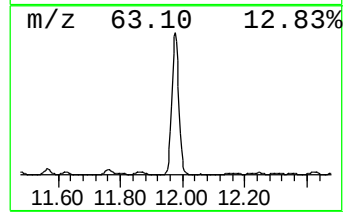
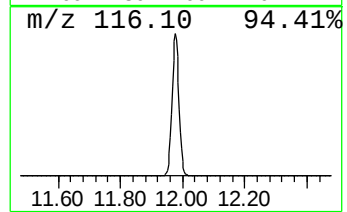
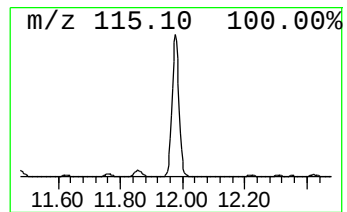
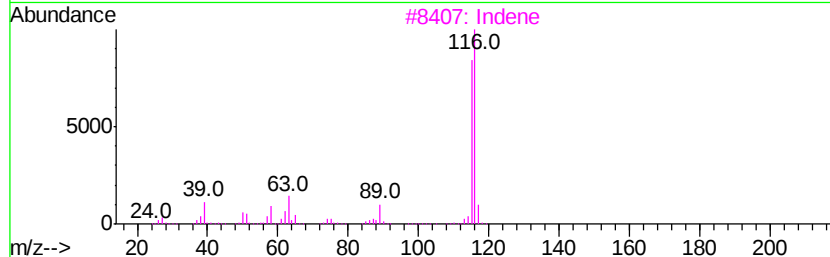
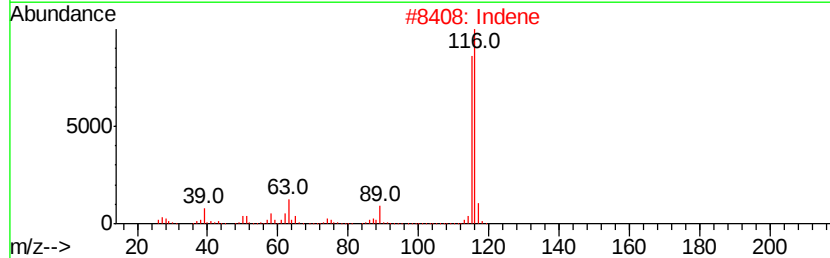
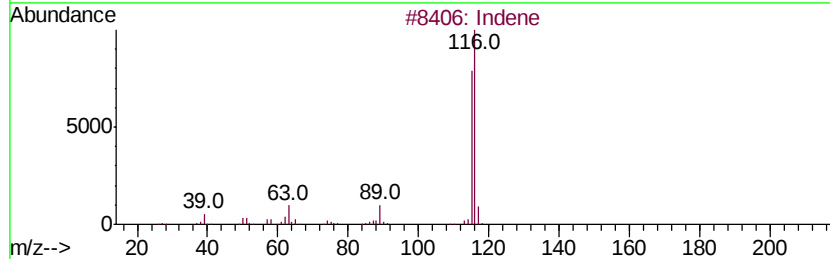
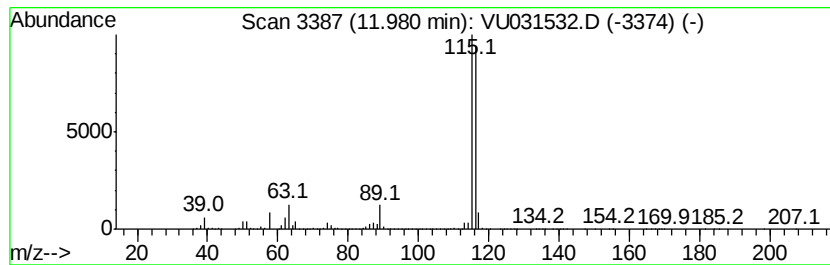
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 15 Indene Concentration Rank 4

| R.T.  | EstConc     | Area     | Relative to ISTD       | R.T.  |
|-------|-------------|----------|------------------------|-------|
| 11.98 | 364.80 ug/L | 19796800 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# | of | Tentative ID                 | MW  | MolForm | CAS#        | Qual |
|------|----|------------------------------|-----|---------|-------------|------|
| 1    | 5  | Indene                       | 116 | C9H8    | 000095-13-6 | 97   |
| 2    |    | Indene                       | 116 | C9H8    | 000095-13-6 | 95   |
| 3    |    | Indene                       | 116 | C9H8    | 000095-13-6 | 94   |
| 4    |    | Benzene, 1-ethynyl-4-methyl- | 116 | C9H8    | 000766-97-2 | 91   |
| 5    |    | Benzene, 1-propynyl-         | 116 | C9H8    | 000673-32-5 | 91   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU042719\  
Data File : VU031532.D  
Acq On : 26 Apr 2019 14:56  
Operator : JC/SP  
Sample : K2481-22ME 5X  
Misc : 5.10µ/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
GAHX5ME

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM042719WMA.M  
Quant Title : VOC Analysis

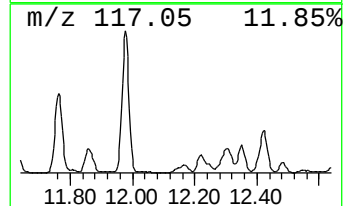
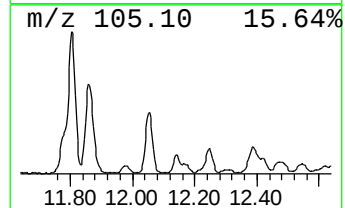
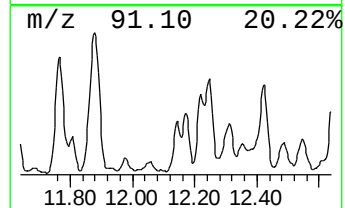
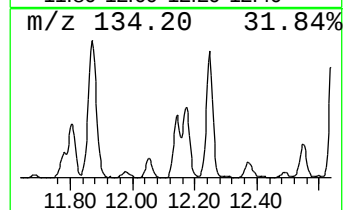
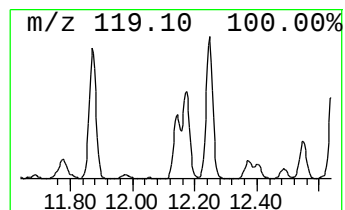
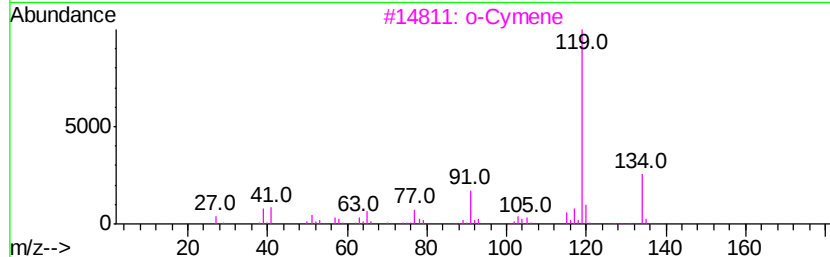
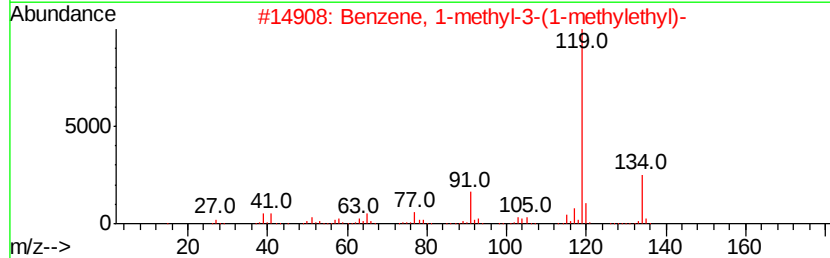
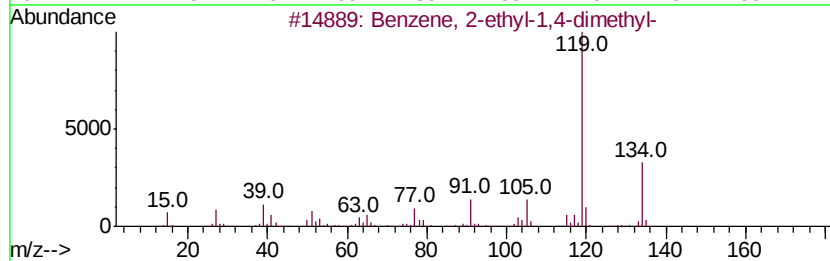
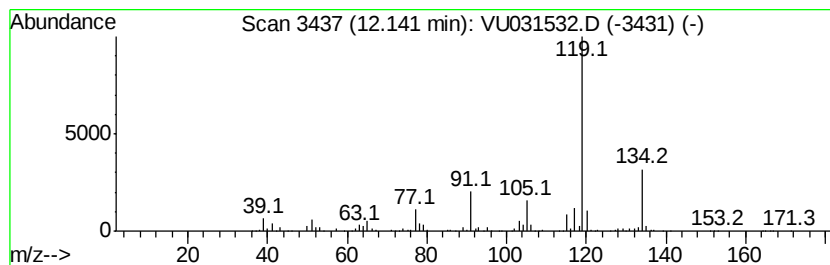
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 16 Benzene, 2-ethyl-1,4-dimethyl- Concentration Rank 38

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 12.14 | 6.47 ug/L | 351271 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# | of | 5 | Tentative ID                         | MW  | MolForm | CAS#        | Qual |
|------|----|---|--------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Benzene, 2-ethyl-1,4-dimethyl-       | 134 | C10H14  | 001758-88-9 | 94   |
| 2    |    |   | Benzene, 1-methyl-3-(1-methylethyl-) | 134 | C10H14  | 000535-77-3 | 93   |
| 3    |    |   | o-Cymene                             | 134 | C10H14  | 000527-84-4 | 93   |
| 4    |    |   | Benzene, 2-ethyl-1,4-dimethyl-       | 134 | C10H14  | 001758-88-9 | 91   |
| 5    |    |   | Benzene, 1-ethyl-2,3-dimethyl-       | 134 | C10H14  | 000933-98-2 | 91   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU042719\  
Data File : VU031532.D  
Acq On : 26 Apr 2019 14:56  
Operator : JC/SP  
Sample : K2481-22ME 5X  
Misc : 5.10uL/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampled :  
GAHX5ME

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM042719WMA.M  
Quant Title : VOC Analysis

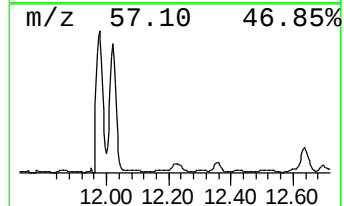
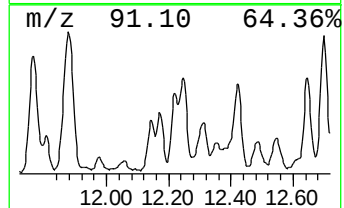
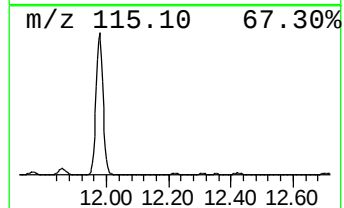
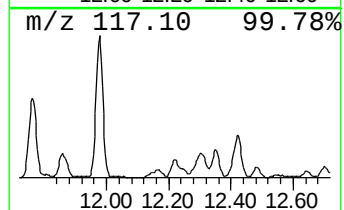
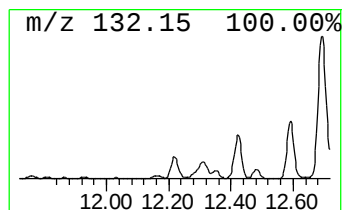
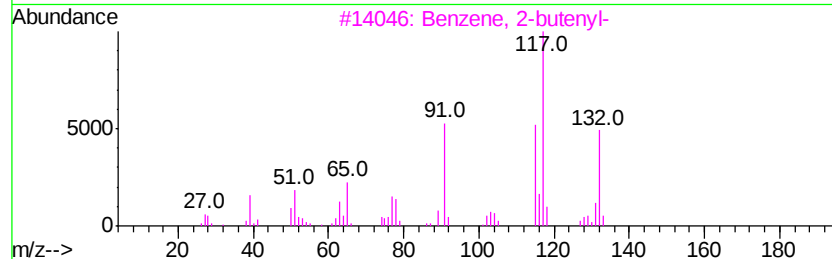
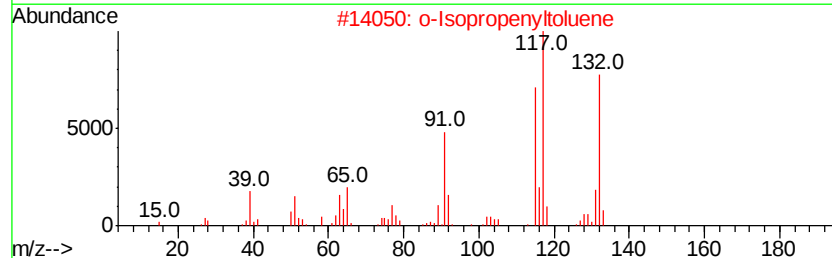
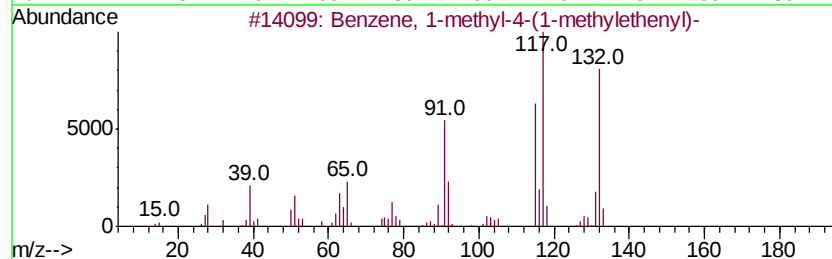
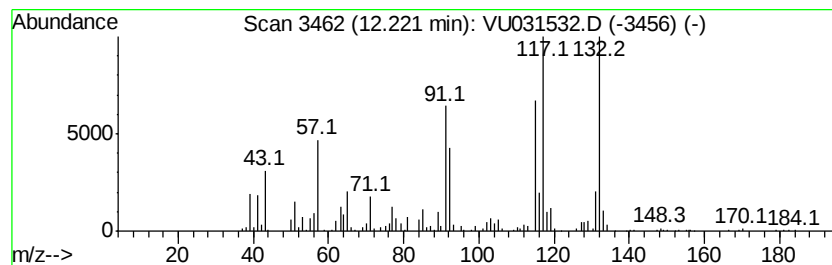
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 17 Benzene, 1-methyl-4-(1-meth... Concentration Rank 39

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 12.22 | 6.17 ug/L | 334941 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1-methyl-4-(1-methyleth... | 132 | C10H12  | 001195-32-0 | 97   |
| 2    |    | o-Isopropenyltoluene                | 132 | C10H12  | 007399-49-7 | 96   |
| 3    |    | Benzene, 2-butenyl-                 | 132 | C10H12  | 001560-06-1 | 83   |
| 4    |    | Benzene, 1-methyl-4-(1-methyleth... | 132 | C10H12  | 001195-32-0 | 81   |
| 5    |    | Benzene, 2-butenyl-                 | 132 | C10H12  | 001560-06-1 | 80   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU042719\  
Data File : VU031532.D  
Acq On : 26 Apr 2019 14:56  
Operator : JC/SP  
Sample : K2481-22ME 5X  
Misc : 5.10µ/5mL/100µL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 14 Sample Multiplier: 1

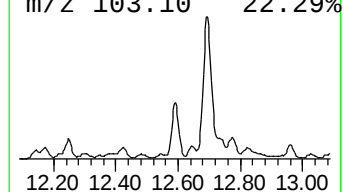
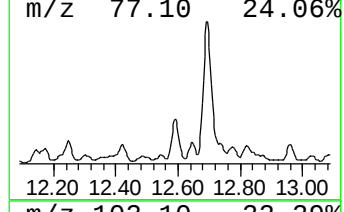
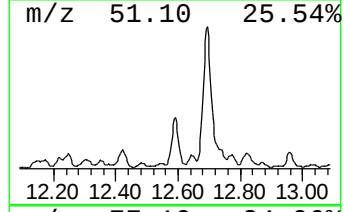
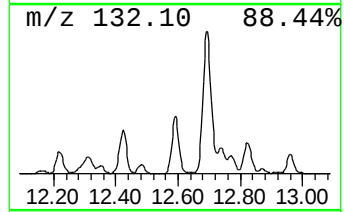
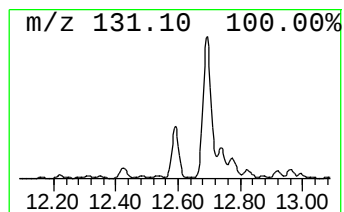
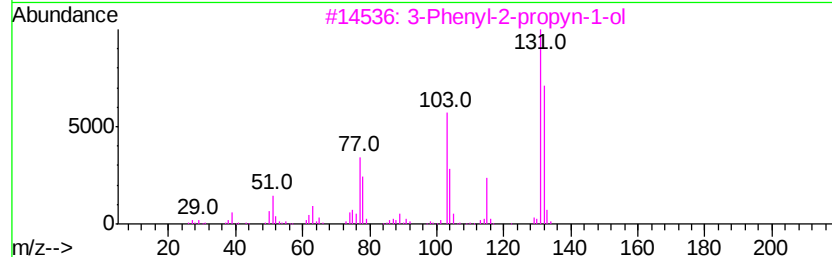
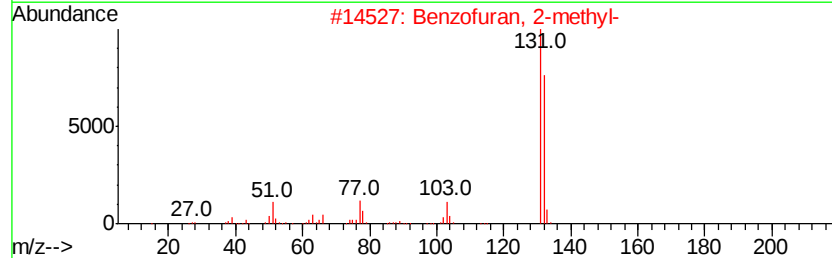
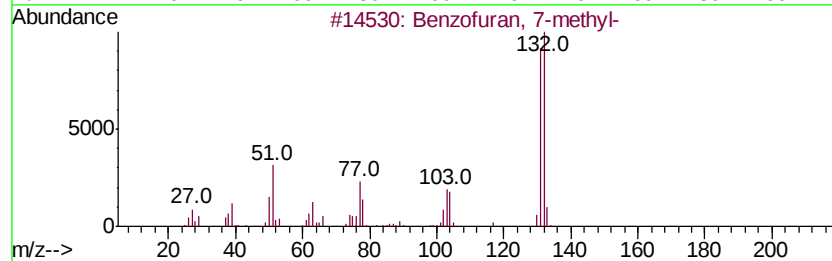
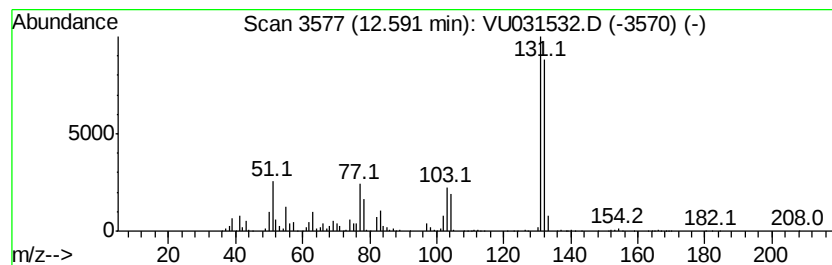
Instrument :  
MSVOA\_U  
ClientSampleId :  
GAHX5ME

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM042719WMA.M  
Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 18 Benzofuran, 7-methyl- Concentration Rank 30

| R.T.    | EstConc    | Area                   | Relative to ISTD       | R.T.           |
|---------|------------|------------------------|------------------------|----------------|
| 12.59   | 23.15 ug/L | 1256130                | 1,4-Dichlorobenzene-d4 | 11.48          |
| Hit# of | 5          | Tentative ID           | MW MolForm             | CAS# Qual      |
| 1       |            | Benzofuran, 7-methyl-  | 132 C9H8O              | 017059-52-8 96 |
| 2       |            | Benzofuran, 2-methyl-  | 132 C9H8O              | 004265-25-2 93 |
| 3       |            | 3-Phenyl-2-propyn-1-ol | 132 C9H8O              | 001504-58-1 90 |
| 4       |            | 2-Propenal, 3-phenyl-  | 132 C9H8O              | 000104-55-2 90 |
| 5       |            | Benzofuran, 2-methyl-  | 132 C9H8O              | 004265-25-2 90 |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU042719\  
Data File : VU031532.D  
Acq On : 26 Apr 2019 14:56  
Operator : JC/SP  
Sample : K2481-22ME 5X  
Misc : 5.10a/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
GAHX5ME

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM042719WMA.M  
Quant Title : VOC Analysis

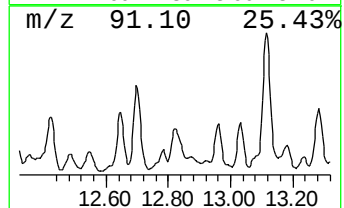
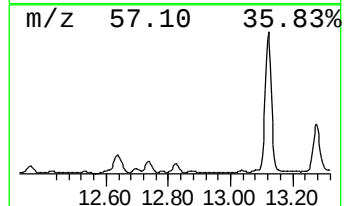
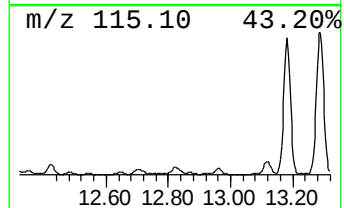
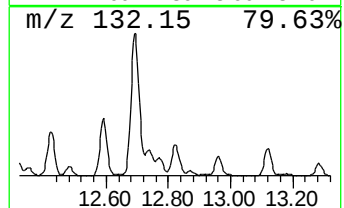
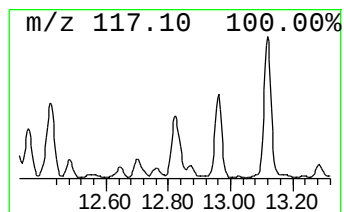
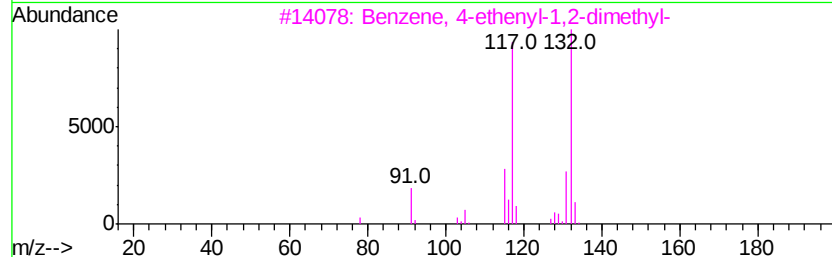
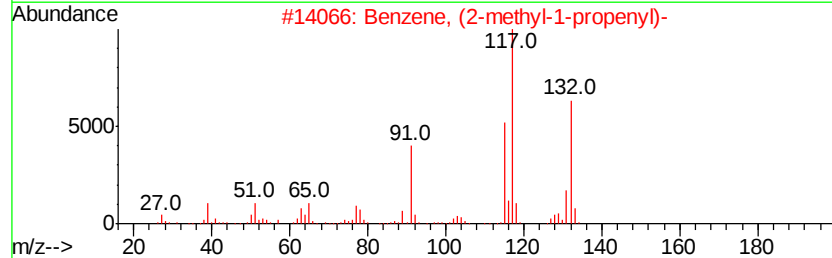
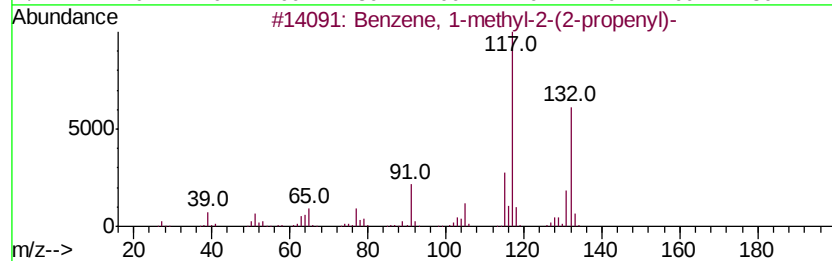
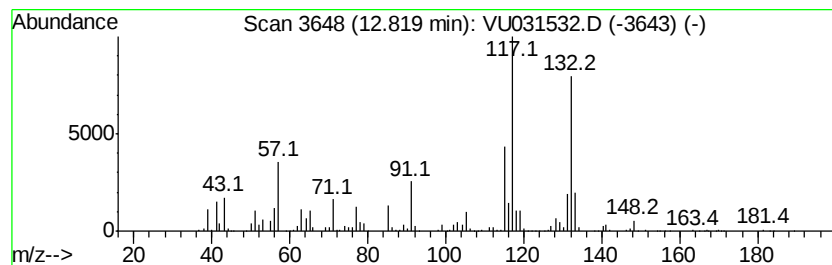
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 20 Benzene, 1-methyl-2-(2-prop... Concentration Rank 35

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 12.82 | 13.16 ug/L | 714284 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# | of | Tentative ID                      | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1-methyl-2-(2-propenyl)- | 132 | C10H12  | 001587-04-8 | 95   |
| 2    |    | Benzene, (2-methyl-1-propenyl)-   | 132 | C10H12  | 000768-49-0 | 95   |
| 3    |    | Benzene, 4-ethenyl-1,2-dimethyl-  | 132 | C10H12  | 027831-13-6 | 95   |
| 4    |    | Benzene, (2-methyl-2-propenyl)-   | 132 | C10H12  | 003290-53-7 | 94   |
| 5    |    | Benzene, (2-methyl-1-propenyl)-   | 132 | C10H12  | 000768-49-0 | 94   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU042719\  
Data File : VU031532.D  
Acq On : 26 Apr 2019 14:56  
Operator : JC/SP  
Sample : K2481-22ME 5X  
Misc : 5.10µ/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 14 Sample Multiplier: 1

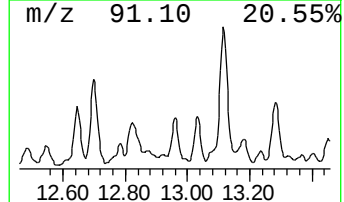
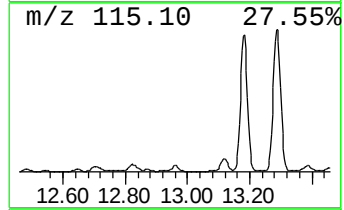
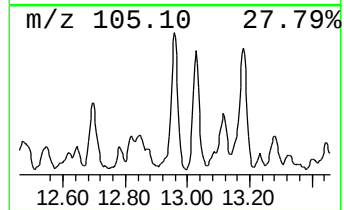
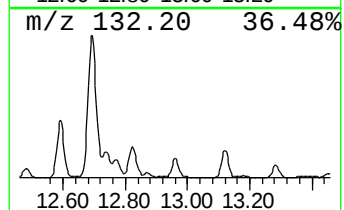
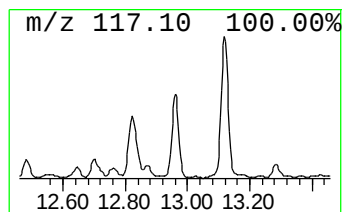
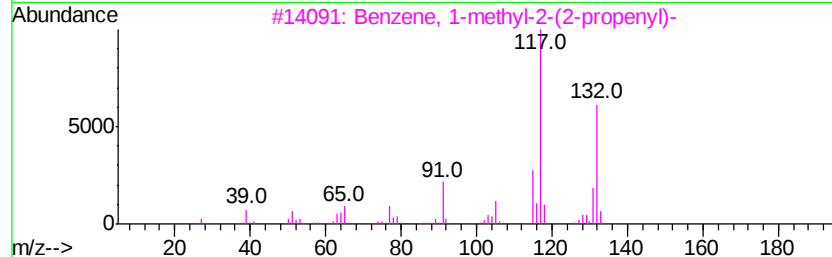
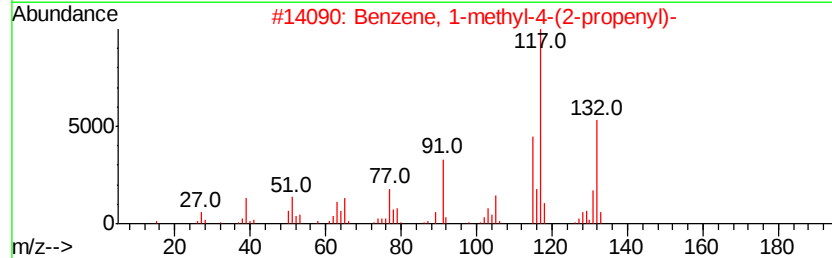
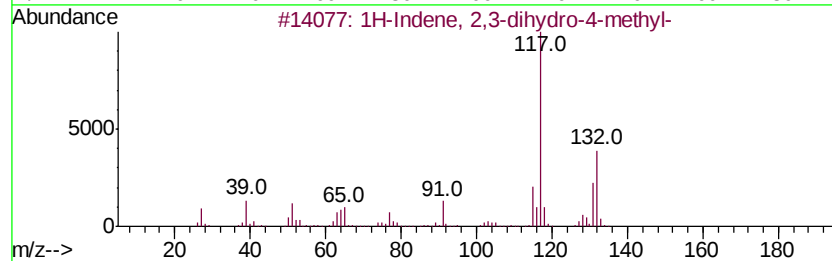
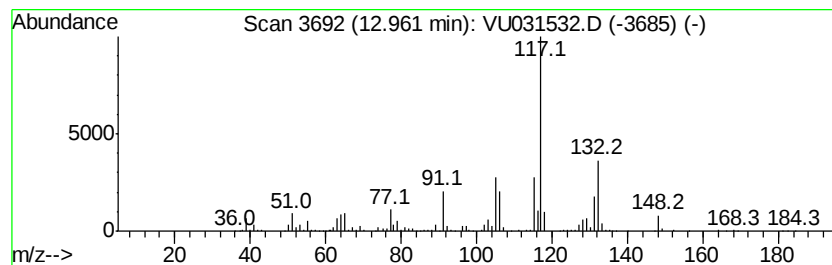
Instrument :  
MSVOA\_U  
ClientSampleId :  
GAHX5ME

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM042719WMA.M  
Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 21 1H-Indene, 2,3-dihydro-4-me... Concentration Rank 34

| R.T.      | EstConc                              | Area   | Relative to ISTD       | R.T.        |      |
|-----------|--------------------------------------|--------|------------------------|-------------|------|
| 12.96     | 15.36 ug/L                           | 833370 | 1,4-Dichlorobenzene-d4 | 11.48       |      |
| Hit# of 5 | Tentative ID                         | MW     | MolForm                | CAS#        | Qual |
| 1         | 1H-Indene, 2,3-dihydro-4-methyl-     | 132    | C10H12                 | 000824-22-6 | 92   |
| 2         | Benzene, 1-methyl-4-(2-propenyl)-    | 132    | C10H12                 | 003333-13-9 | 91   |
| 3         | Benzene, 1-methyl-2-(2-propenyl)-    | 132    | C10H12                 | 001587-04-8 | 81   |
| 4         | Indan, 1-methyl-                     | 132    | C10H12                 | 000767-58-8 | 76   |
| 5         | Benzene, (1-methyl-1-propenyl)-, ... | 132    | C10H12                 | 000767-99-7 | 76   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU042719\  
Data File : VU031532.D  
Acq On : 26 Apr 2019 14:56  
Operator : JC/SP  
Sample : K2481-22ME 5X  
Misc : 5.10g/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
GAHX5ME

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM042719WMA.M  
Quant Title : VOC Analysis

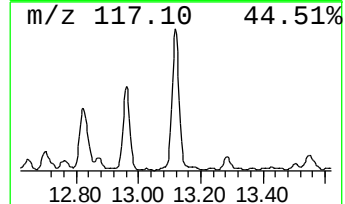
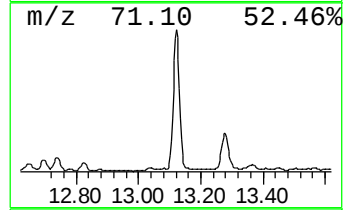
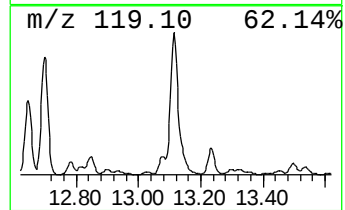
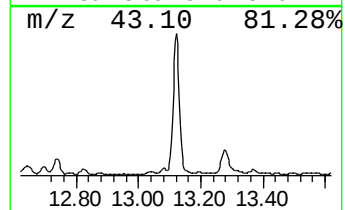
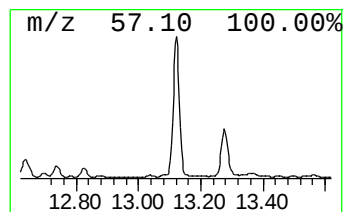
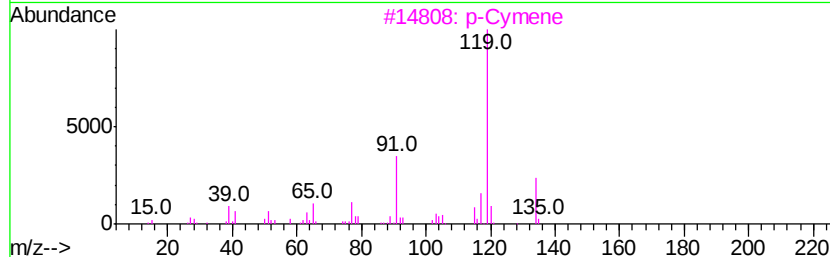
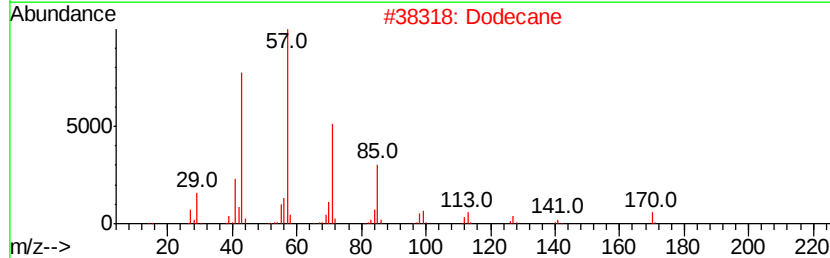
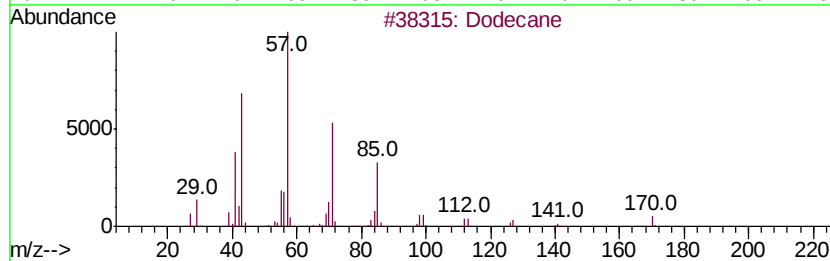
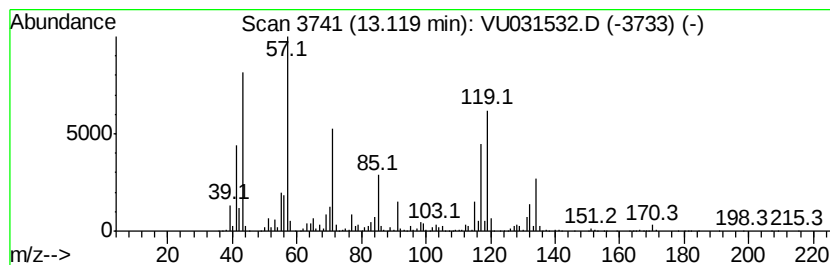
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 22 (DEL) Alkane: Straight-Chai... Concentration Rank 13

| R.T.  | EstConc    | Area    | Relative to ISTD       | R.T.  |
|-------|------------|---------|------------------------|-------|
| 13.12 | 92.62 ug/L | 5026380 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# | of | Tentative ID | MW  | MolForm | CAS#        | Qual |
|------|----|--------------|-----|---------|-------------|------|
| 1    | 5  | Dodecane     | 170 | C12H26  | 000112-40-3 | 84   |
| 2    |    | Dodecane     | 170 | C12H26  | 000112-40-3 | 42   |
| 3    |    | p-Cymene     | 134 | C10H14  | 000099-87-6 | 38   |
| 4    |    | o-Cymene     | 134 | C10H14  | 000527-84-4 | 38   |
| 5    |    | o-Cymene     | 134 | C10H14  | 000527-84-4 | 38   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU042719\  
Data File : VU031532.D  
Acq On : 26 Apr 2019 14:56  
Operator : JC/SP  
Sample : K2481-22ME 5X  
Misc : 5.10µ/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
GAHX5ME

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM042719WMA.M  
Quant Title : VOC Analysis

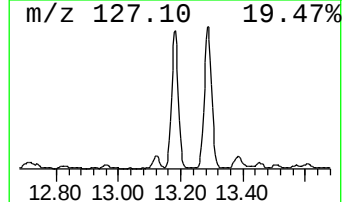
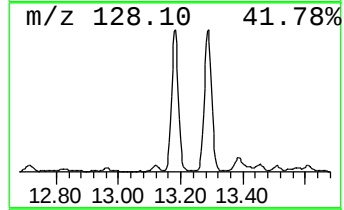
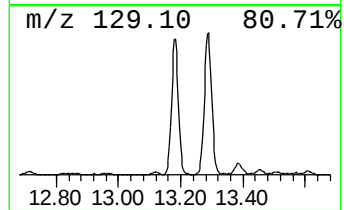
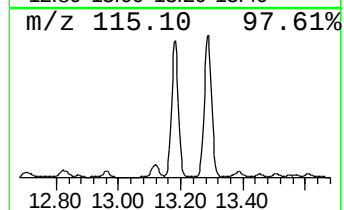
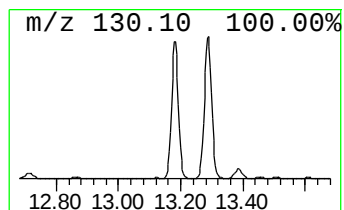
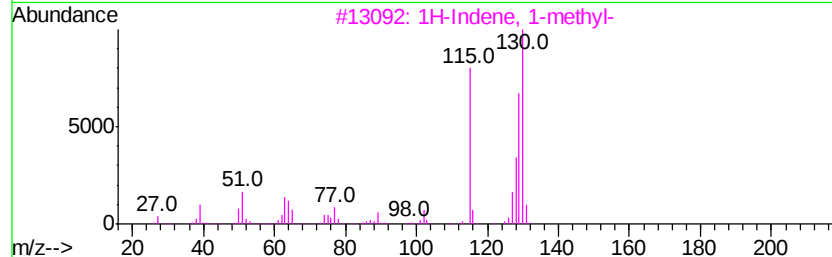
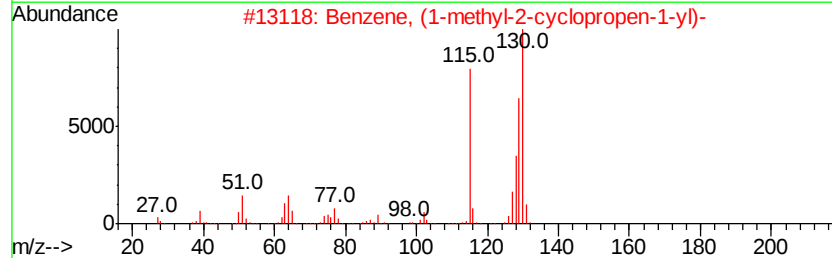
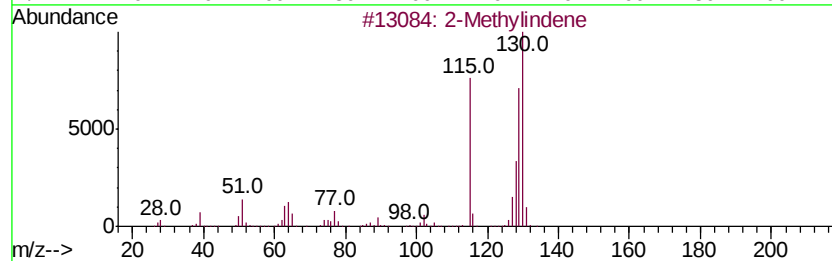
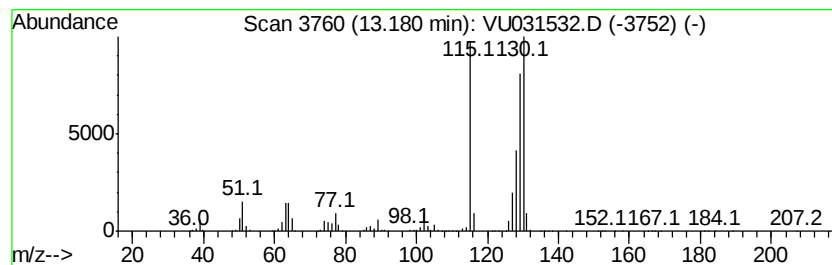
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 23 2-Methylindene Concentration Rank 10

| R.T.  | EstConc     | Area    | Relative to ISTD       | R.T.  |
|-------|-------------|---------|------------------------|-------|
| 13.18 | 114.23 ug/L | 6199210 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | 2-Methylindene                      | 130 | C10H10  | 002177-47-1 | 97   |
| 2    |    | Benzene, (1-methyl-2-cyclopropen... | 130 | C10H10  | 065051-83-4 | 97   |
| 3    |    | 1H-Indene, 1-methyl-                | 130 | C10H10  | 000767-59-9 | 96   |
| 4    |    | Benzene, 1-methyl-1,2-propadienyl-  | 130 | C10H10  | 022433-39-2 | 95   |
| 5    |    | Cycloprop[a]indene, 1,1a,6,6a-te... | 130 | C10H10  | 015677-15-3 | 93   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU042719\  
Data File : VU031532.D  
Acq On : 26 Apr 2019 14:56  
Operator : JC/SP  
Sample : K2481-22ME 5X  
Misc : 5.10µ/5mL/100µL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
GAHX5ME

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM042719WMA.M  
Quant Title : VOC Analysis

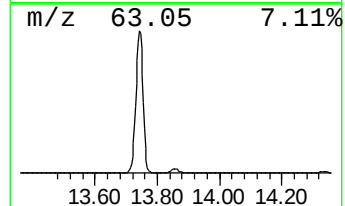
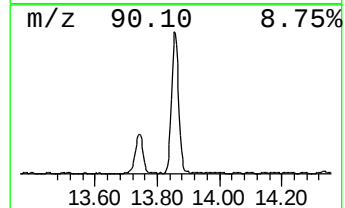
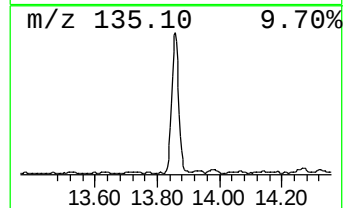
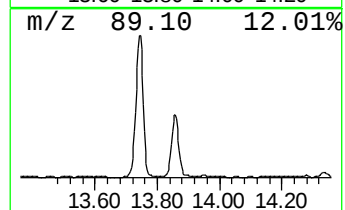
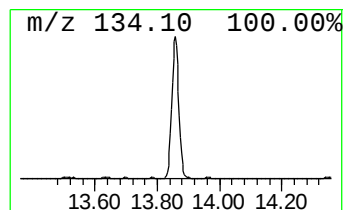
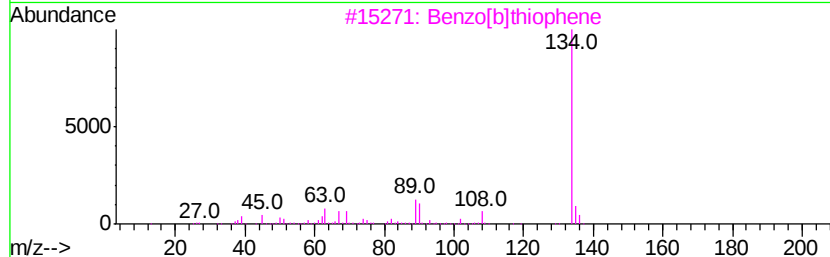
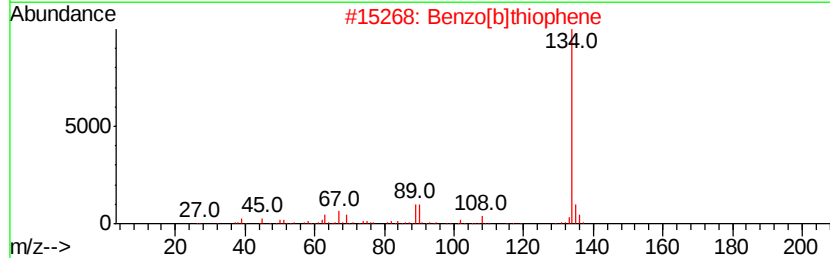
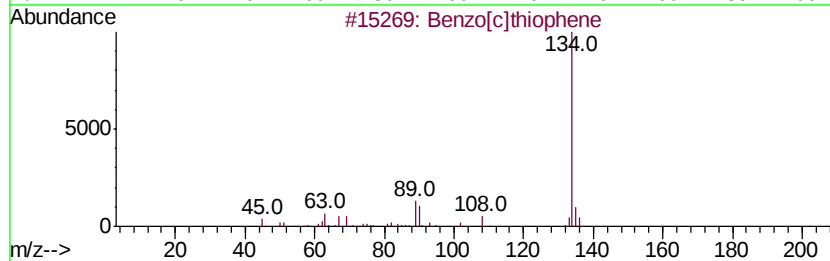
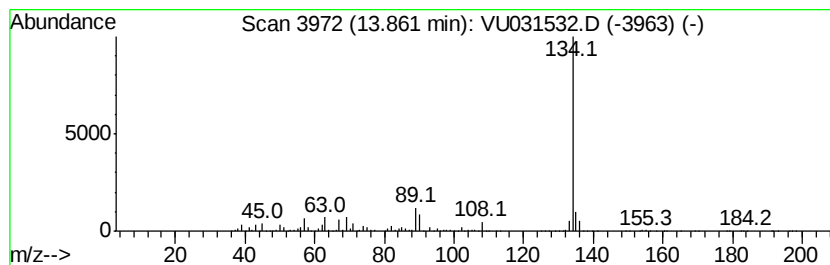
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 26 Benzo[c]thiophene Concentration Rank 16

| R.T.  | EstConc    | Area    | Relative to ISTD       | R.T.  |
|-------|------------|---------|------------------------|-------|
| 13.86 | 75.18 ug/L | 4080000 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# | of | Tentative ID           | MW  | MolForm | CAS#        | Qual |
|------|----|------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzo[c]thiophene      | 134 | C8H6S   | 000270-82-6 | 97   |
| 2    |    | Benzo[b]thiophene      | 134 | C8H6S   | 000095-15-8 | 95   |
| 3    |    | Benzo[b]thiophene      | 134 | C8H6S   | 000095-15-8 | 94   |
| 4    |    | Cyclopenta[c]thiapyran | 134 | C8H6S   | 000270-63-3 | 94   |
| 5    |    | Benzo[b]thiophene      | 134 | C8H6S   | 000095-15-8 | 94   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU042719\  
Data File : VU031532.D  
Acq On : 26 Apr 2019 14:56  
Operator : JC/SP  
Sample : K2481-22ME 5X  
Misc : 5.10µ/5mL/100µL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
GAHX5ME

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM042719WMA.M  
Quant Title : VOC Analysis

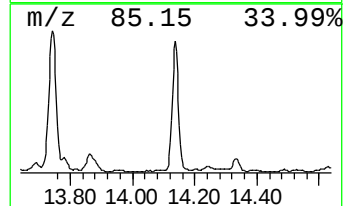
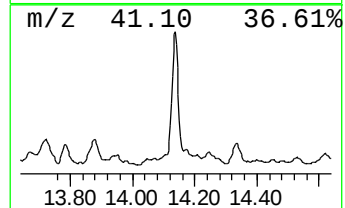
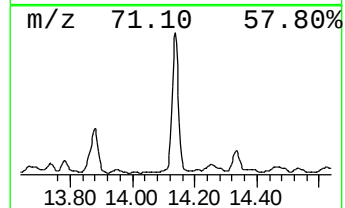
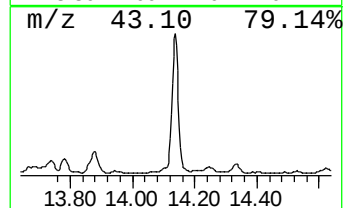
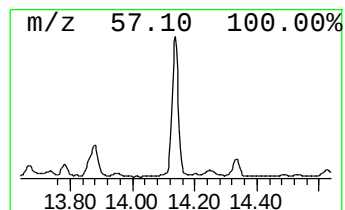
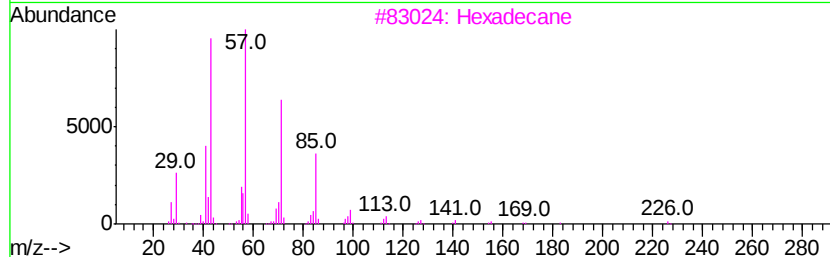
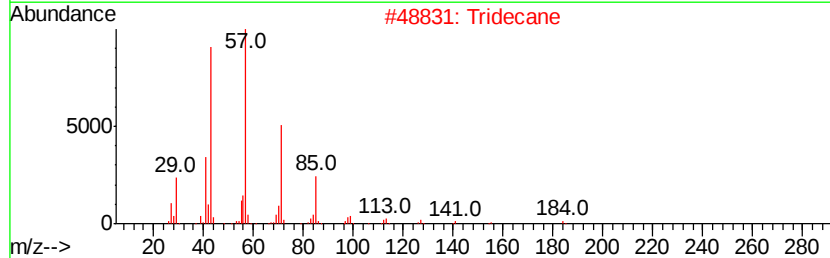
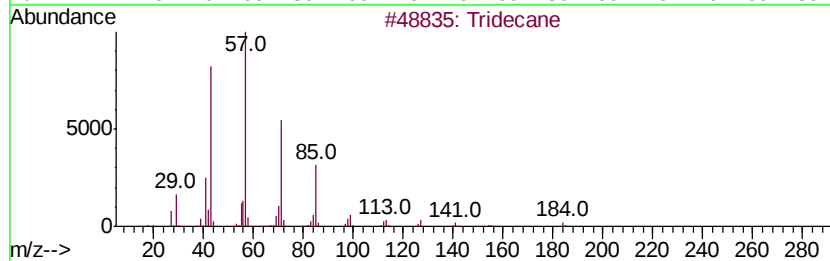
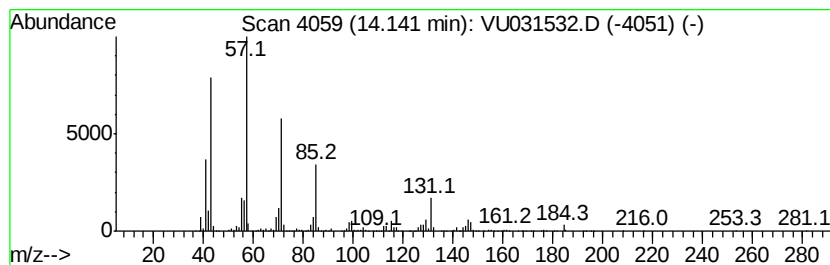
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 27 (DEL) Alkane: Straight-Chai... Concentration Rank 19

| R.T.  | EstConc    | Area    | Relative to ISTD       | R.T.  |
|-------|------------|---------|------------------------|-------|
| 14.14 | 51.61 ug/L | 2800730 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# | of | Tentative ID        | MW  | MolForm | CAS#        | Qual |
|------|----|---------------------|-----|---------|-------------|------|
| 1    | 5  | Tridecane           | 184 | C13H28  | 000629-50-5 | 96   |
| 2    |    | Tridecane           | 184 | C13H28  | 000629-50-5 | 94   |
| 3    |    | Hexadecane          | 226 | C16H34  | 000544-76-3 | 74   |
| 4    |    | Tetradecane         | 198 | C14H30  | 000629-59-4 | 72   |
| 5    |    | Dodecane, 2-methyl- | 184 | C13H28  | 001560-97-0 | 64   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU042719\  
Data File : VU031532.D  
Acq On : 26 Apr 2019 14:56  
Operator : JC/SP  
Sample : K2481-22ME 5X  
Misc : 5.10g/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
GAHX5ME

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM042719WMA.M  
Quant Title : VOC Analysis

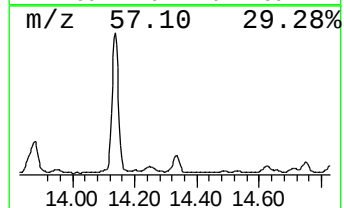
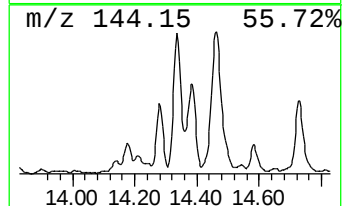
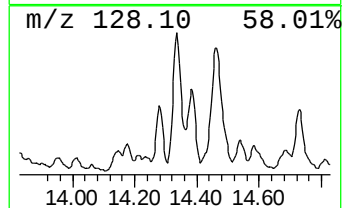
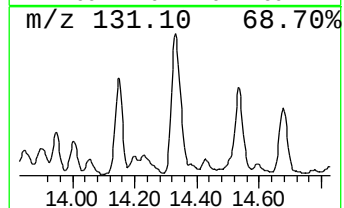
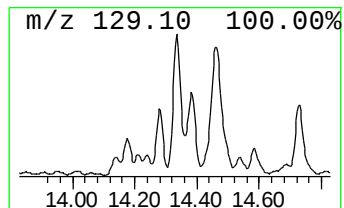
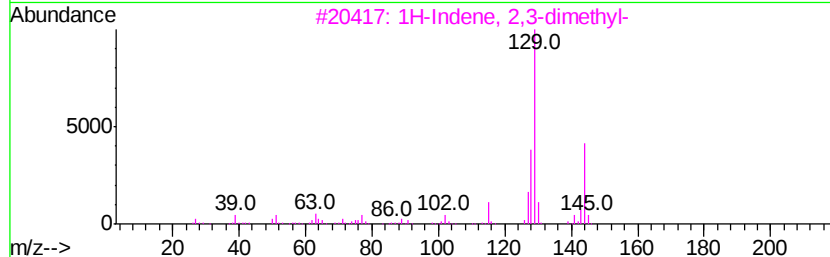
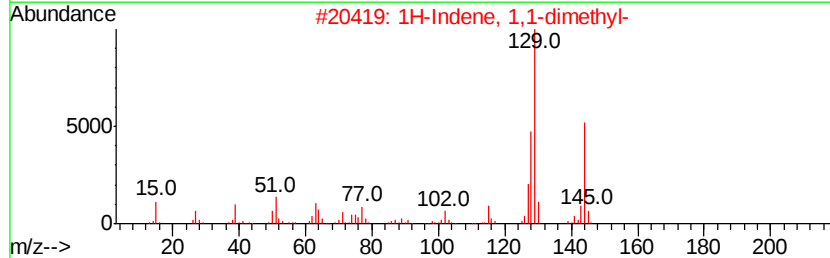
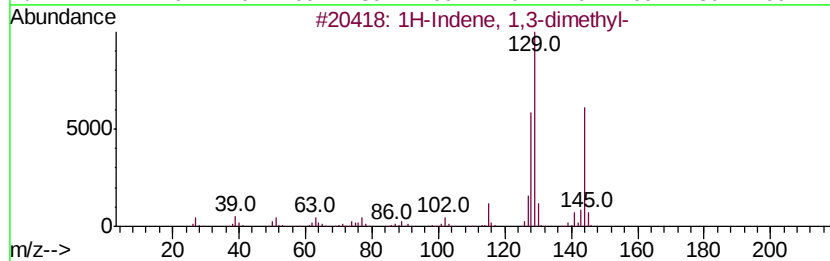
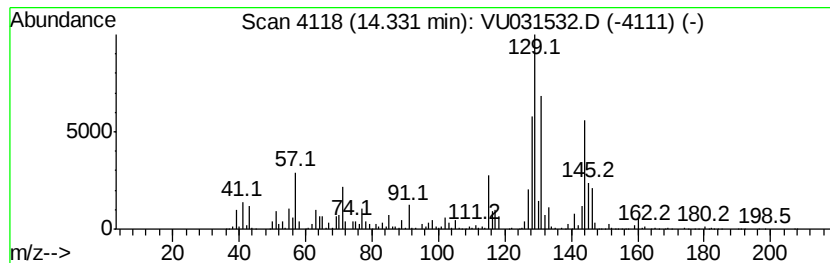
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 28 1H-Indene, 1,3-dimethyl- Concentration Rank 23

| R.T.  | EstConc    | Area    | Relative to ISTD       | R.T.  |
|-------|------------|---------|------------------------|-------|
| 14.33 | 43.08 ug/L | 2338000 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# | of | Tentative ID                       | MW  | MolForm | CAS#        | Qual |
|------|----|------------------------------------|-----|---------|-------------|------|
| 1    | 5  | 1H-Indene, 1,3-dimethyl-           | 144 | C11H12  | 002177-48-2 | 70   |
| 2    |    | 1H-Indene, 1,1-dimethyl-           | 144 | C11H12  | 018636-55-0 | 70   |
| 3    |    | 1H-Indene, 2,3-dimethyl-           | 144 | C11H12  | 004773-82-4 | 70   |
| 4    |    | 1H-Indene, 1,1-dimethyl-           | 144 | C11H12  | 018636-55-0 | 64   |
| 5    |    | Naphthalene, 1,2-dihydro-3-methyl- | 144 | C11H12  | 002717-44-4 | 60   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU042719\  
Data File : VU031532.D  
Acq On : 26 Apr 2019 14:56  
Operator : JC/SP  
Sample : K2481-22ME 5X  
Misc : 5.10µ/5mL/100µL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
GAHX5ME

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM042719WMA.M  
Quant Title : VOC Analysis

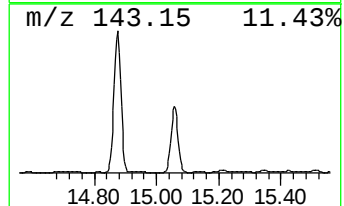
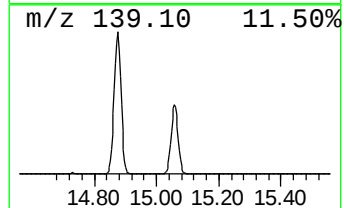
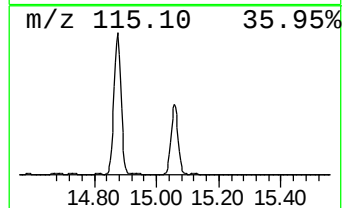
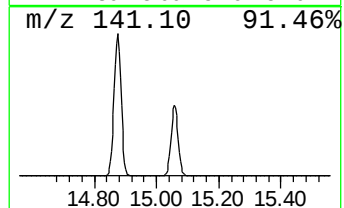
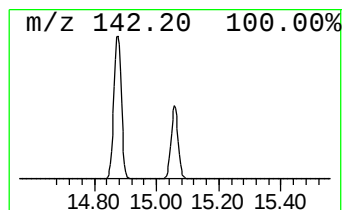
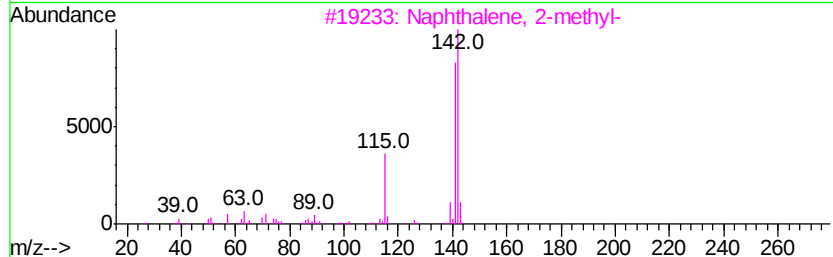
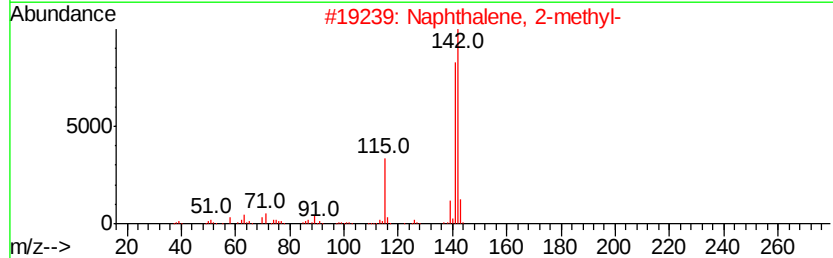
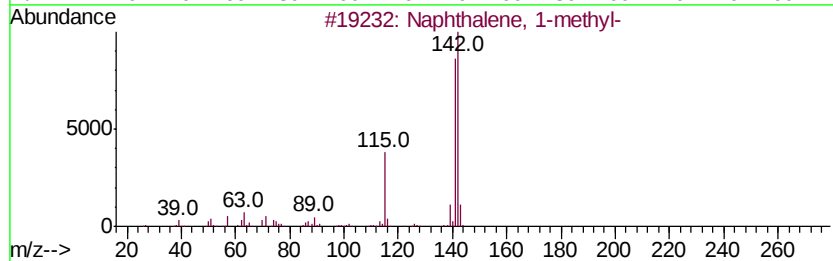
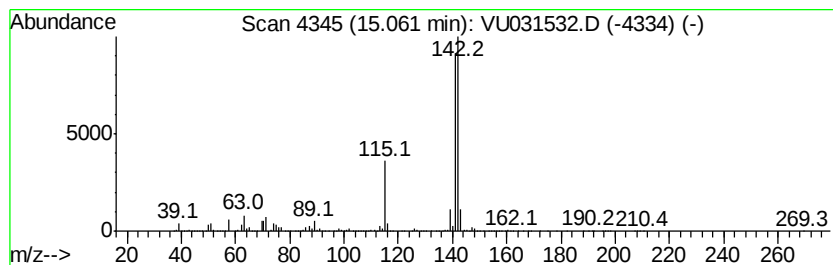
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 30 Naphthalene, 1-methyl- Concentration Rank 3

| R.T.  | EstConc     | Area     | Relative to ISTD       | R.T.  |
|-------|-------------|----------|------------------------|-------|
| 15.06 | 475.35 ug/L | 25796300 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Naphthalene, 1-methyl-              | 142 | C11H10  | 000090-12-0 | 96   |
| 2    |    | Naphthalene, 2-methyl-              | 142 | C11H10  | 000091-57-6 | 96   |
| 3    |    | Naphthalene, 2-methyl-              | 142 | C11H10  | 000091-57-6 | 96   |
| 4    |    | Naphthalene, 2-methyl-              | 142 | C11H10  | 000091-57-6 | 93   |
| 5    |    | 1,4-Methanonaphthalene, 1,4-dihy... | 142 | C11H10  | 004453-90-1 | 93   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU042719\  
Data File : VU031532.D  
Acq On : 26 Apr 2019 14:56  
Operator : JC/SP  
Sample : K2481-22ME 5X  
Misc : 5.10µ/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 14 Sample Multiplier: 1

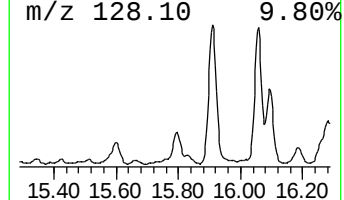
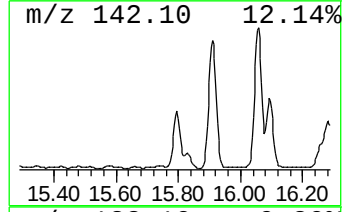
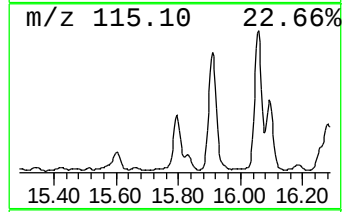
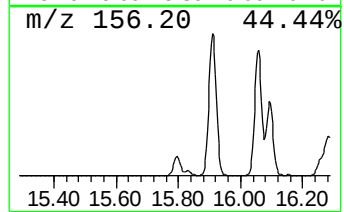
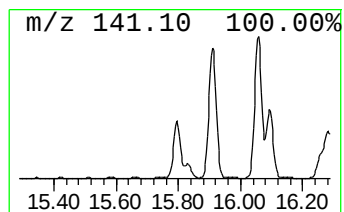
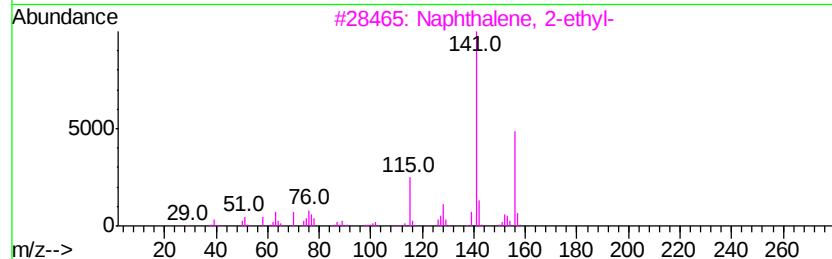
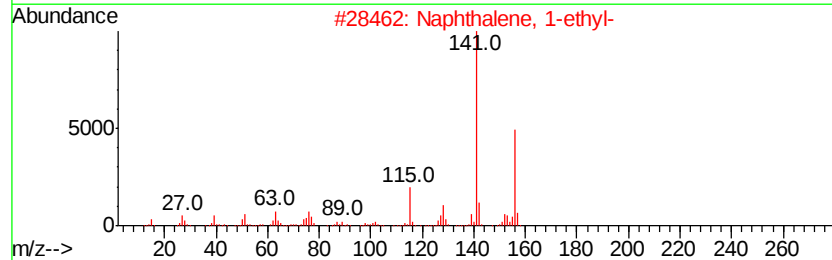
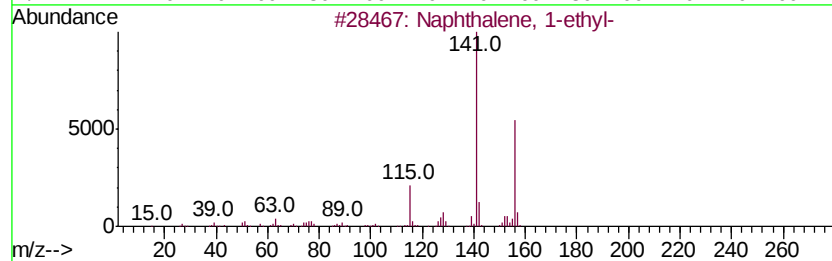
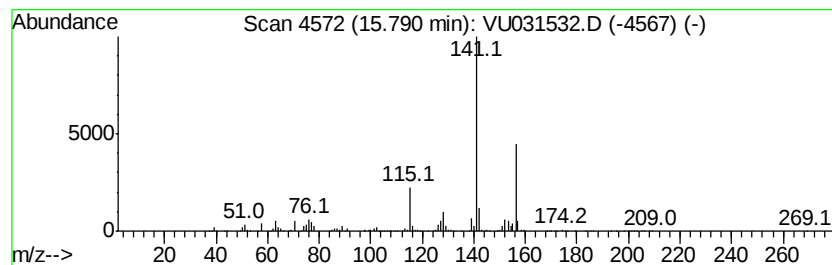
Instrument :  
MSVOA\_U  
ClientSampleId :  
GAHX5ME

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM042719WMA.M  
Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 32 Naphthalene, 1-ethyl- Concentration Rank 24

| R.T.      | EstConc               | Area    | Relative to ISTD       | R.T.        |      |
|-----------|-----------------------|---------|------------------------|-------------|------|
| 15.79     | 41.93 ug/L            | 2275480 | 1,4-Dichlorobenzene-d4 | 11.48       |      |
| Hit# of 5 | Tentative ID          | MW      | MolForm                | CAS#        | Qual |
| 1         | Naphthalene, 1-ethyl- | 156     | C12H12                 | 001127-76-0 | 97   |
| 2         | Naphthalene, 1-ethyl- | 156     | C12H12                 | 001127-76-0 | 96   |
| 3         | Naphthalene, 2-ethyl- | 156     | C12H12                 | 000939-27-5 | 96   |
| 4         | Naphthalene, 2-ethyl- | 156     | C12H12                 | 000939-27-5 | 95   |
| 5         | Naphthalene, 1-ethyl- | 156     | C12H12                 | 001127-76-0 | 95   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU042719\  
Data File : VU031532.D  
Acq On : 26 Apr 2019 14:56  
Operator : JC/SP  
Sample : K2481-22ME 5X  
Misc : 5.10µ/5mL/100µL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
GAHX5ME

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM042719WMA.M  
Quant Title : VOC Analysis

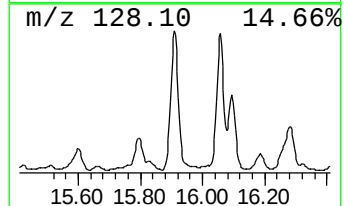
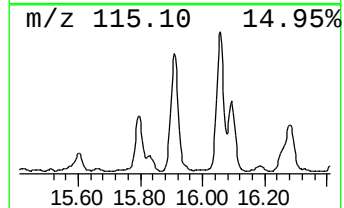
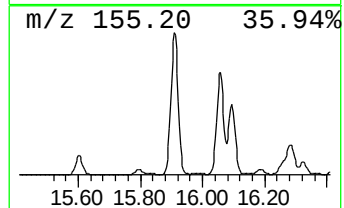
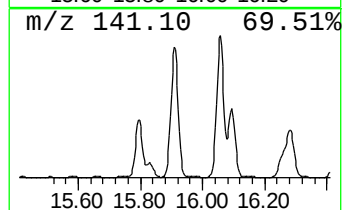
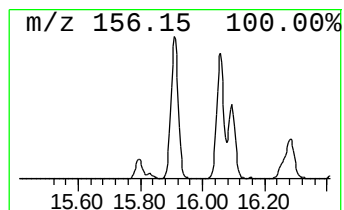
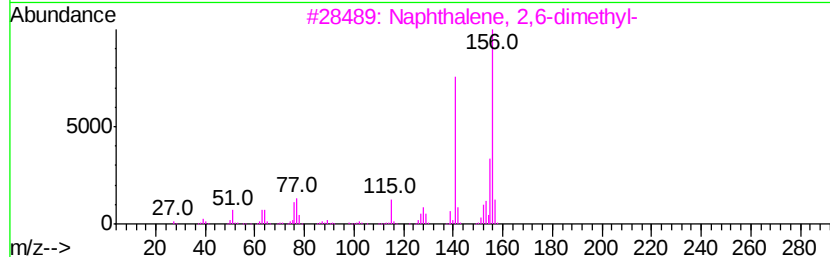
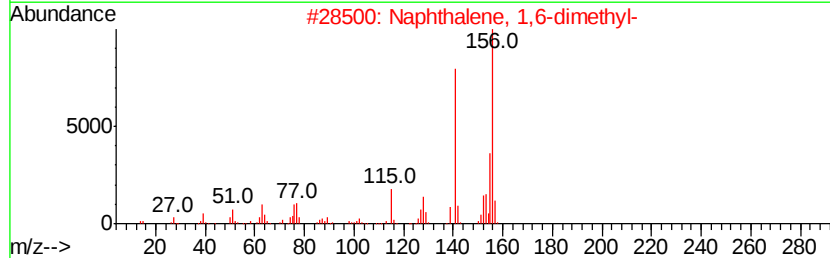
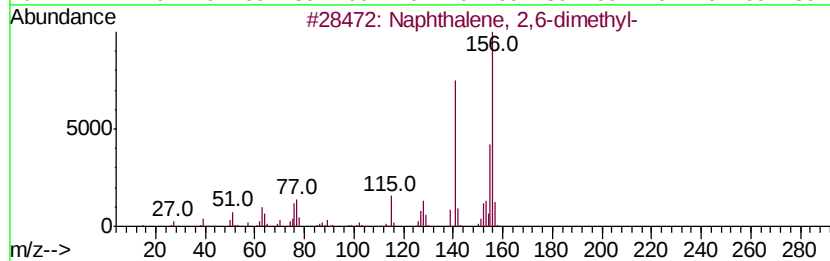
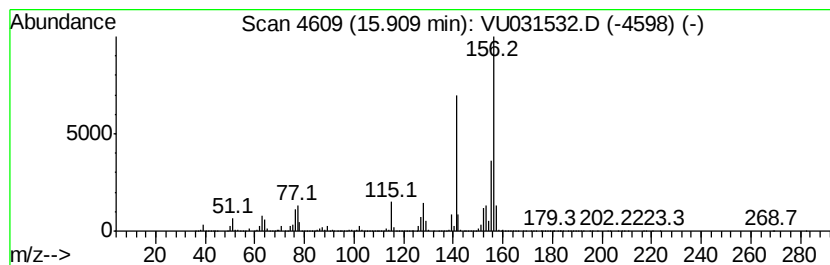
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 33 Naphthalene, 2,6-dimethyl- Concentration Rank 5

| R.T.  | EstConc     | Area     | Relative to ISTD       | R.T.  |
|-------|-------------|----------|------------------------|-------|
| 15.91 | 271.36 ug/L | 14726100 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# | of | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------|-----|---------|-------------|------|
| 1    | 5  | Naphthalene, 2,6-dimethyl- | 156 | C12H12  | 000581-42-0 | 98   |
| 2    |    | Naphthalene, 1,6-dimethyl- | 156 | C12H12  | 000575-43-9 | 98   |
| 3    |    | Naphthalene, 2,6-dimethyl- | 156 | C12H12  | 000581-42-0 | 98   |
| 4    |    | Naphthalene, 1,7-dimethyl- | 156 | C12H12  | 000575-37-1 | 98   |
| 5    |    | Naphthalene, 1,5-dimethyl- | 156 | C12H12  | 000571-61-9 | 98   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU042719\  
Data File : VU031532.D  
Acq On : 26 Apr 2019 14:56  
Operator : JC/SP  
Sample : K2481-22ME 5X  
Misc : 5.10uL/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
GAHX5ME

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM042719WMA.M  
Quant Title : VOC Analysis

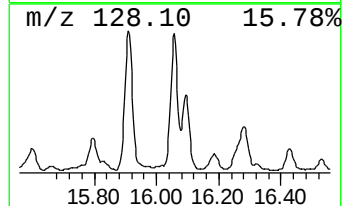
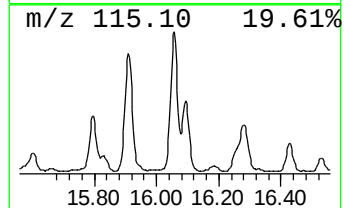
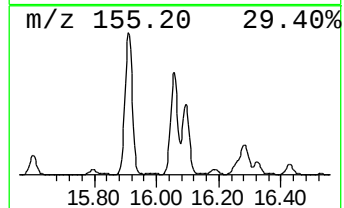
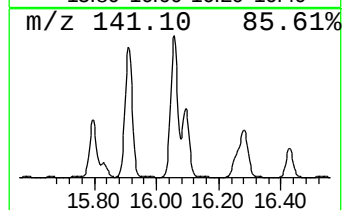
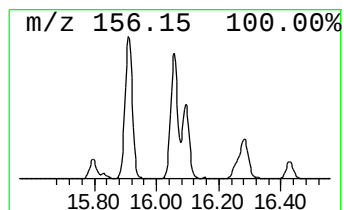
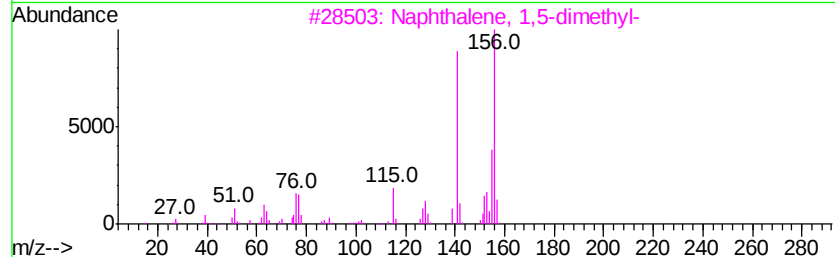
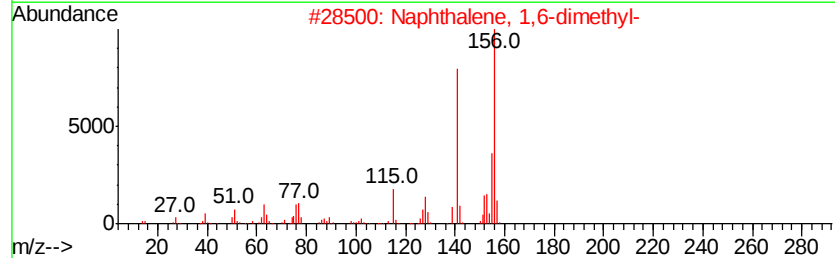
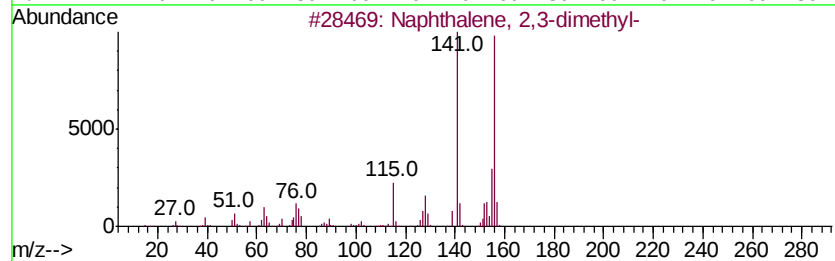
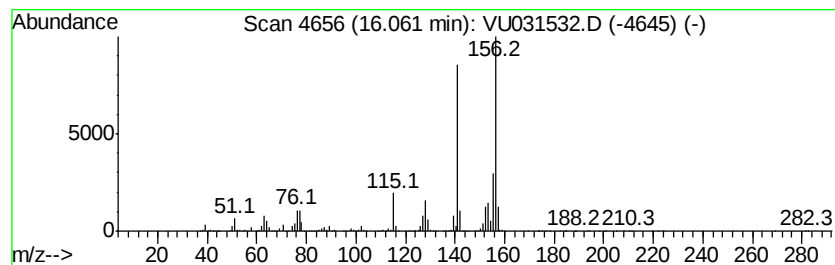
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 34 Naphthalene, 2,3-dimethyl- Concentration Rank 6

| R.T.  | EstConc     | Area     | Relative to ISTD       | R.T.  |
|-------|-------------|----------|------------------------|-------|
| 16.06 | 229.22 ug/L | 12439500 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# | of | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------|-----|---------|-------------|------|
| 1    | 5  | Naphthalene, 2,3-dimethyl- | 156 | C12H12  | 000581-40-8 | 98   |
| 2    |    | Naphthalene, 1,6-dimethyl- | 156 | C12H12  | 000575-43-9 | 98   |
| 3    |    | Naphthalene, 1,5-dimethyl- | 156 | C12H12  | 000571-61-9 | 98   |
| 4    |    | Naphthalene, 1,7-dimethyl- | 156 | C12H12  | 000575-37-1 | 98   |
| 5    |    | Naphthalene, 1,7-dimethyl- | 156 | C12H12  | 000575-37-1 | 97   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU042719\  
Data File : VU031532.D  
Acq On : 26 Apr 2019 14:56  
Operator : JC/SP  
Sample : K2481-22ME 5X  
Misc : 5.10µ/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
GAHX5ME

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM042719WMA.M  
Quant Title : VOC Analysis

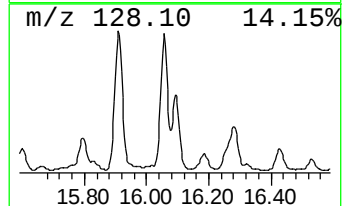
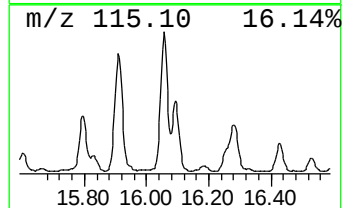
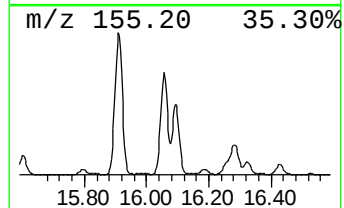
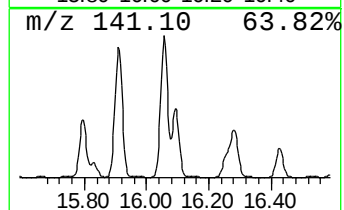
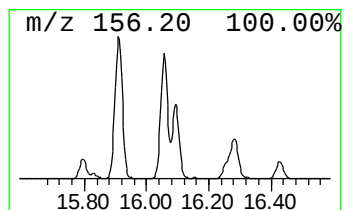
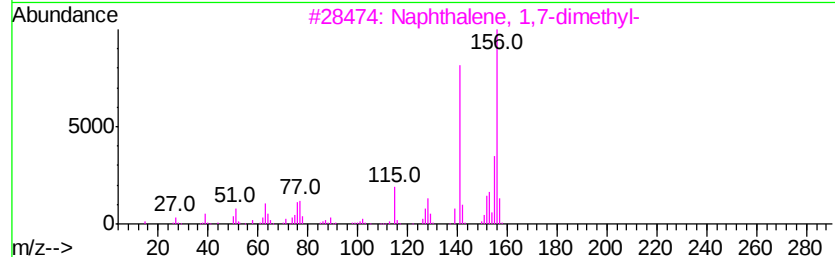
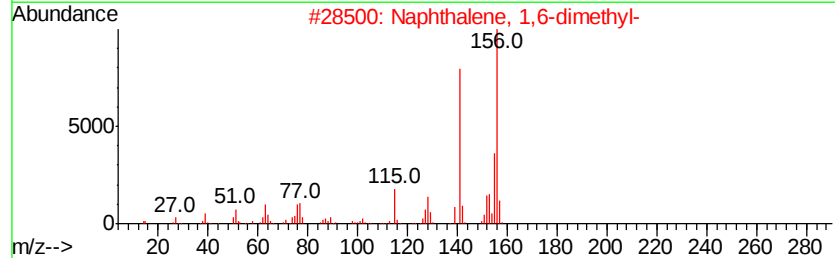
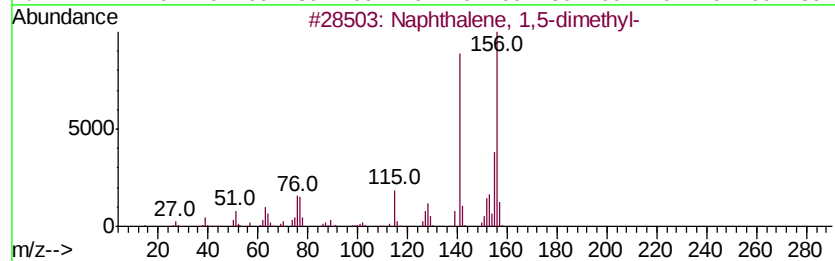
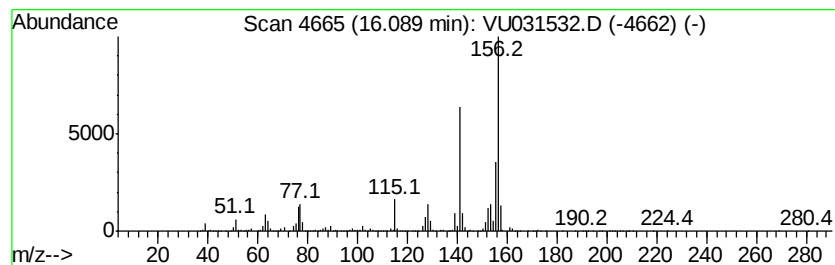
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 35 Naphthalene, 1,5-dimethyl- Concentration Rank 8

| R.T.  | EstConc     | Area    | Relative to ISTD       | R.T.  |
|-------|-------------|---------|------------------------|-------|
| 16.09 | 125.50 ug/L | 6810330 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# | of | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------|-----|---------|-------------|------|
| 1    | 5  | Naphthalene, 1,5-dimethyl- | 156 | C12H12  | 000571-61-9 | 98   |
| 2    |    | Naphthalene, 1,6-dimethyl- | 156 | C12H12  | 000575-43-9 | 98   |
| 3    |    | Naphthalene, 1,7-dimethyl- | 156 | C12H12  | 000575-37-1 | 98   |
| 4    |    | Naphthalene, 2,6-dimethyl- | 156 | C12H12  | 000581-42-0 | 98   |
| 5    |    | Naphthalene, 1,7-dimethyl- | 156 | C12H12  | 000575-37-1 | 97   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU042719\  
Data File : VU031532.D  
Acq On : 26 Apr 2019 14:56  
Operator : JC/SP  
Sample : K2481-22ME 5X  
Misc : 5.10µ/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
GAHX5ME

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM042719WMA.M  
Quant Title : VOC Analysis

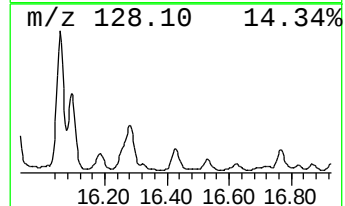
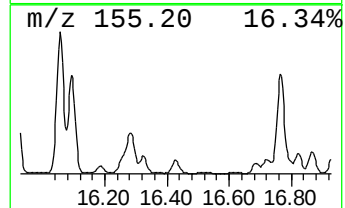
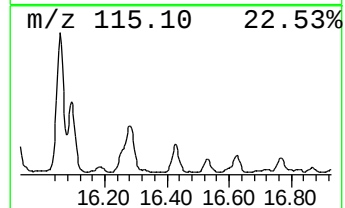
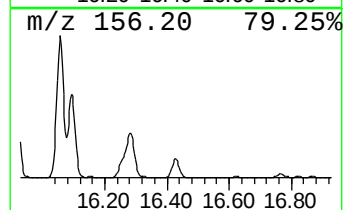
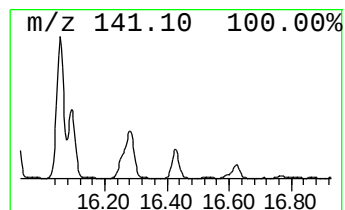
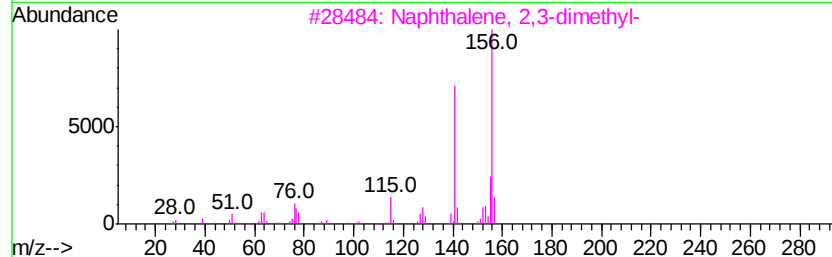
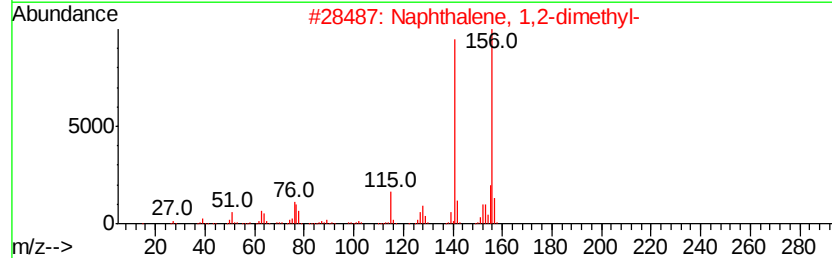
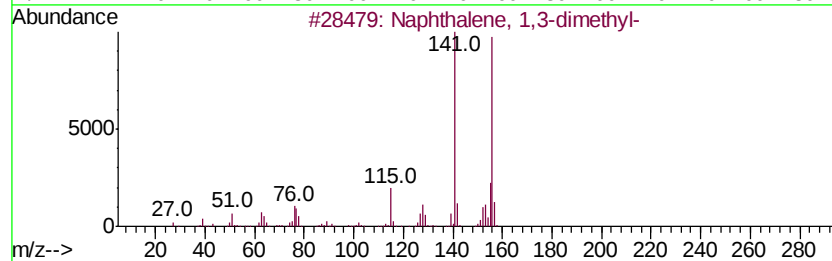
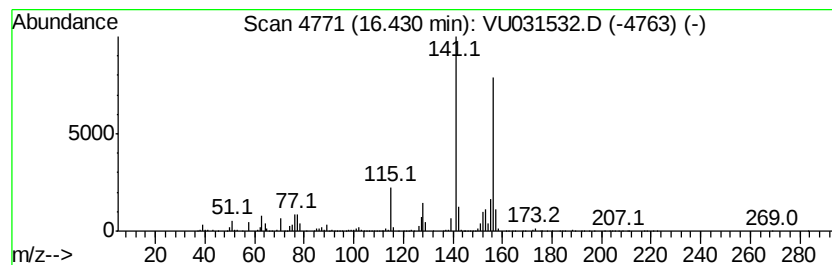
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 37 Naphthalene, 1,3-dimethyl- Concentration Rank 26

| R.T.  | EstConc    | Area    | Relative to ISTD       | R.T.  |
|-------|------------|---------|------------------------|-------|
| 16.43 | 33.56 ug/L | 1821290 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# | of | 5 | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|---|----------------------------|-----|---------|-------------|------|
| 1    |    |   | Naphthalene, 1,3-dimethyl- | 156 | C12H12  | 000575-41-7 | 96   |
| 2    |    |   | Naphthalene, 1,2-dimethyl- | 156 | C12H12  | 000573-98-8 | 96   |
| 3    |    |   | Naphthalene, 2,3-dimethyl- | 156 | C12H12  | 000581-40-8 | 96   |
| 4    |    |   | Naphthalene, 1,4-dimethyl- | 156 | C12H12  | 000571-58-4 | 96   |
| 5    |    |   | Naphthalene, 2,3-dimethyl- | 156 | C12H12  | 000581-40-8 | 95   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU042719\  
Data File : VU031532.D  
Acq On : 26 Apr 2019 14:56  
Operator : JC/SP  
Sample : K2481-22ME 5X  
Misc : 5.10µ/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
GAHX5ME

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM042719WMA.M  
Quant Title : VOC Analysis

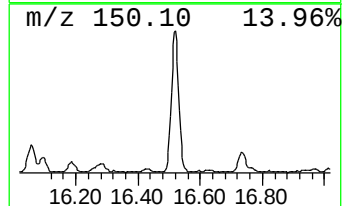
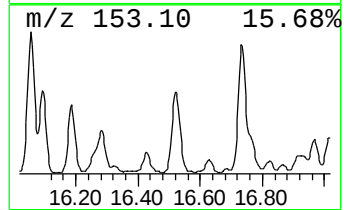
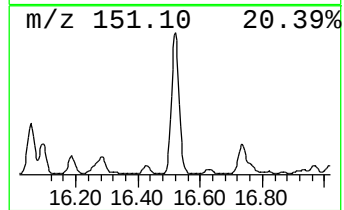
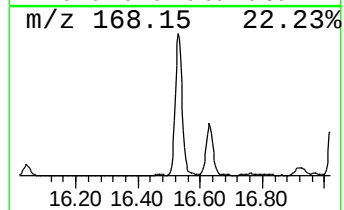
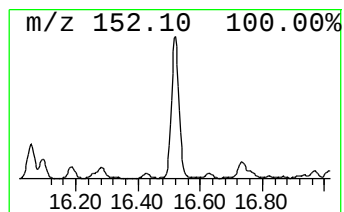
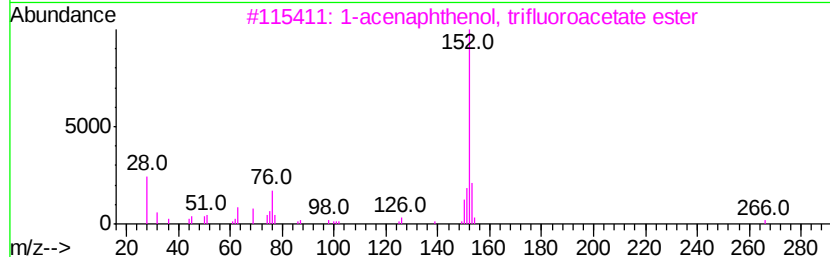
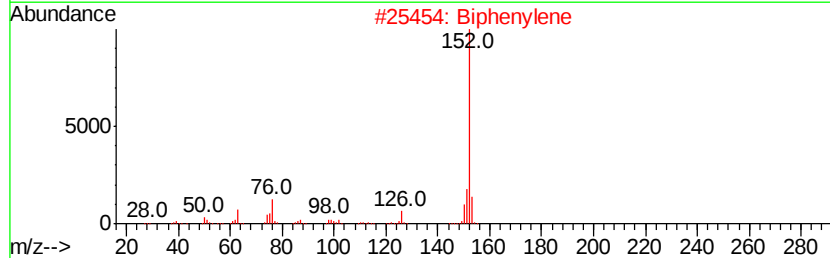
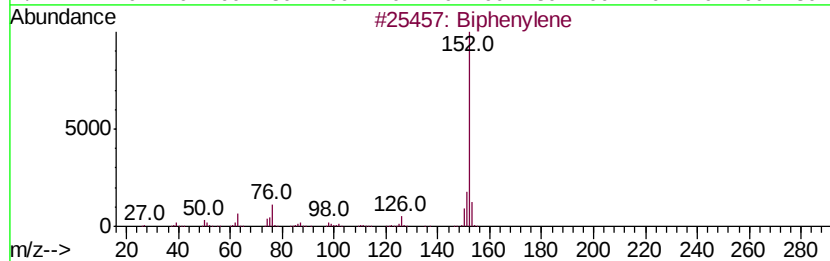
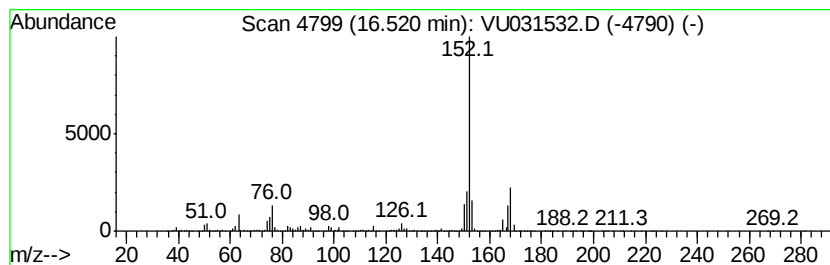
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 38 Biphenylene Concentration Rank 12

| R.T.  | EstConc     | Area    | Relative to ISTD       | R.T.  |
|-------|-------------|---------|------------------------|-------|
| 16.52 | 100.07 ug/L | 5430810 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | Biphenylene                         | 152 | C12H8     | 000259-79-0  | 92   |
| 2    |    | Biphenylene                         | 152 | C12H8     | 000259-79-0  | 86   |
| 3    |    | 1-acenaphthenol, trifluoroacetat... | 266 | C14H9F3O2 | 1000376-45-2 | 62   |
| 4    |    | Acenaphthylene                      | 152 | C12H8     | 000208-96-8  | 60   |
| 5    |    | Acenaphthylene                      | 152 | C12H8     | 000208-96-8  | 58   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU042719\  
Data File : VU031532.D  
Acq On : 26 Apr 2019 14:56  
Operator : JC/SP  
Sample : K2481-22ME 5X  
Misc : 5.10µ/5mL/100µL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
GAHX5ME

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM042719WMA.M  
Quant Title : VOC Analysis

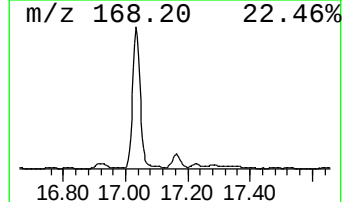
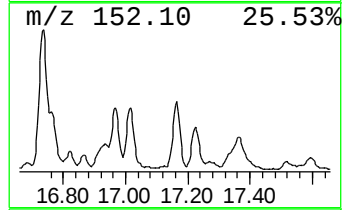
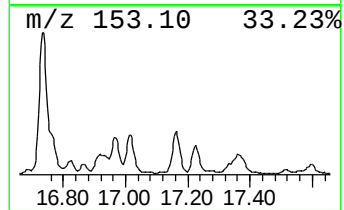
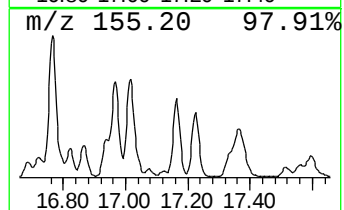
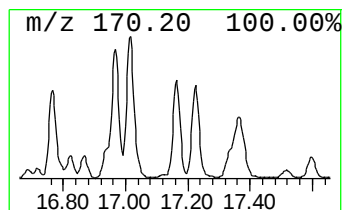
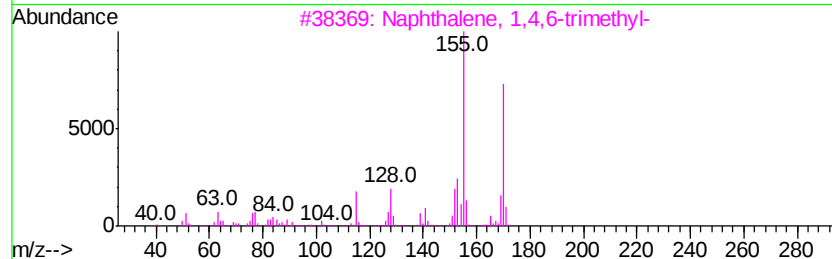
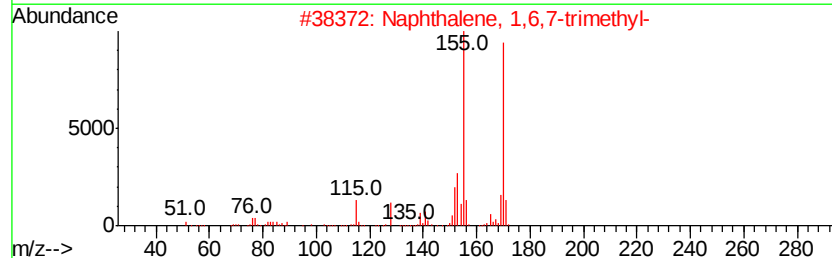
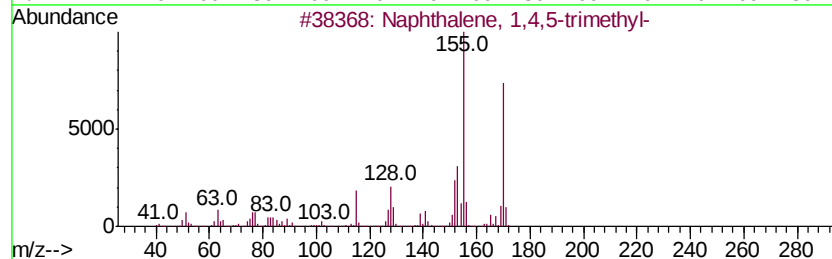
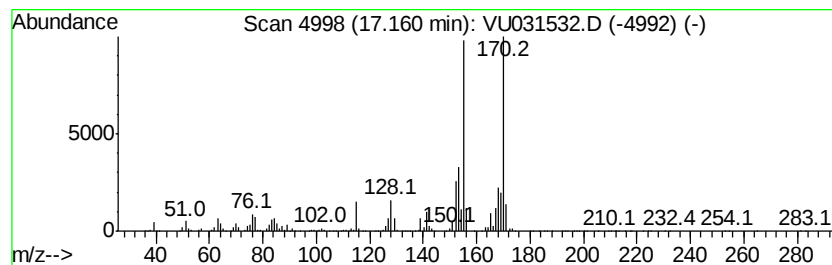
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 40 Naphthalene, 1,4,5-trimethyl- Concentration Rank 27

| R.T.  | EstConc    | Area    | Relative to ISTD       | R.T.  |
|-------|------------|---------|------------------------|-------|
| 17.16 | 31.59 ug/L | 1714200 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# | of | Tentative ID                  | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------|-----|---------|-------------|------|
| 1    | 5  | Naphthalene, 1,4,5-trimethyl- | 170 | C13H14  | 002131-41-1 | 96   |
| 2    |    | Naphthalene, 1,6,7-trimethyl- | 170 | C13H14  | 002245-38-7 | 96   |
| 3    |    | Naphthalene, 1,4,6-trimethyl- | 170 | C13H14  | 002131-42-2 | 95   |
| 4    |    | Naphthalene, 2,3,6-trimethyl- | 170 | C13H14  | 000829-26-5 | 95   |
| 5    |    | Naphthalene, 1,6,7-trimethyl- | 170 | C13H14  | 002245-38-7 | 93   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU042719\  
Data File : VU031532.D  
Acq On : 26 Apr 2019 14:56  
Operator : JC/SP  
Sample : K2481-22ME 5X  
Misc : 5.10µ/5mL/100µL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
GAHX5ME

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM042719WMA.M  
Quant Title : VOC Analysis

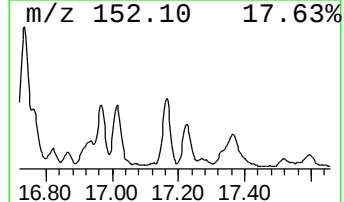
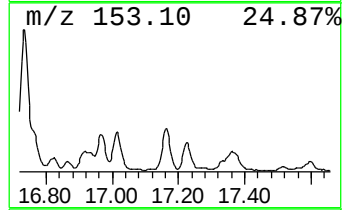
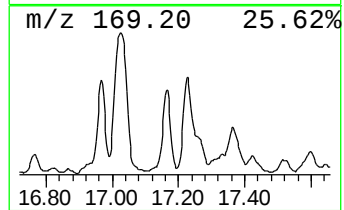
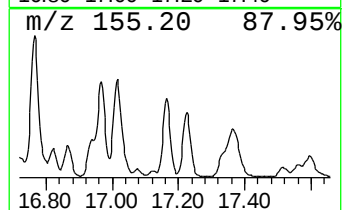
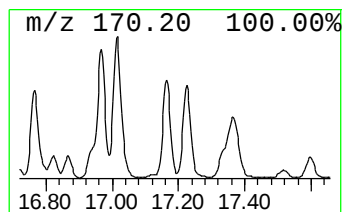
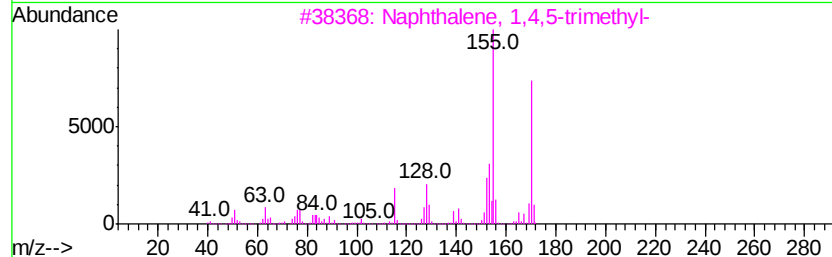
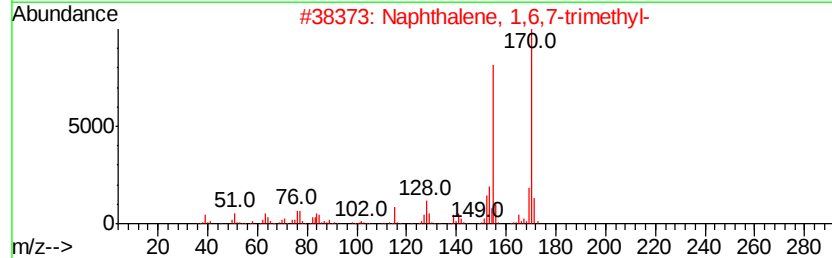
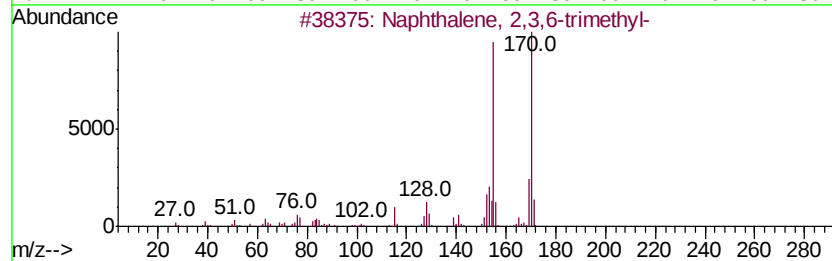
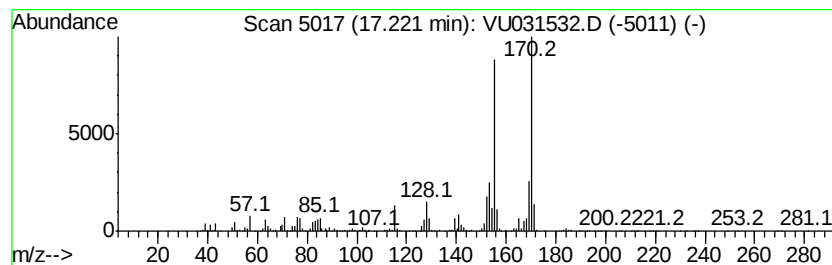
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 41 Naphthalene, 2,3,6-trimethyl- Concentration Rank 28

| R.T.  | EstConc    | Area    | Relative to ISTD       | R.T.  |
|-------|------------|---------|------------------------|-------|
| 17.22 | 25.25 ug/L | 1370200 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# | of | Tentative ID                  | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------|-----|---------|-------------|------|
| 1    | 5  | Naphthalene, 2,3,6-trimethyl- | 170 | C13H14  | 000829-26-5 | 98   |
| 2    |    | Naphthalene, 1,6,7-trimethyl- | 170 | C13H14  | 002245-38-7 | 98   |
| 3    |    | Naphthalene, 1,4,5-trimethyl- | 170 | C13H14  | 002131-41-1 | 96   |
| 4    |    | Naphthalene, 1,4,6-trimethyl- | 170 | C13H14  | 002131-42-2 | 96   |
| 5    |    | Naphthalene, 1,6,7-trimethyl- | 170 | C13H14  | 002245-38-7 | 96   |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_U\DATA\VU042719\  
 Data File : VU031532.D  
 Acq On : 26 Apr 2019 14:56  
 Operator : JC/SP  
 Sample : K2481-22ME 5X  
 Misc : 5.10g/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 GAHX5ME

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM042719WMA.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: Str... | 9.44  | 8.7     | ug/L  | 463397   | 2                     | 9.09  | 2668990 | 50.0 |
| (DEL) Alkane: Str... | 9.95  | 2.6     | ug/L  | 139601   | 2                     | 9.09  | 2668990 | 50.0 |
| Benzene, propyl-     | 10.58 | 4.2     | ug/L  | 229092   | 3                     | 11.48 | 2713390 | 50.0 |
| Benzene, 1-ethyl-... | 10.68 | 43.9    | ug/L  | 2382820  | 3                     | 11.48 | 2713390 | 50.0 |
| Benzene, 1,2,3-tr... | 10.77 | 46.5    | ug/L  | 2522870  | 3                     | 11.48 | 2713390 | 50.0 |
| (DEL) Alkane: Str... | 10.81 | 17.8    | ug/L  | 967314   | 3                     | 11.48 | 2713390 | 50.0 |
| Benzene, 1-ethyl-... | 10.97 | 9.3     | ug/L  | 502559   | 3                     | 11.48 | 2713390 | 50.0 |
| Benzene, 1-etheny... | 11.21 | 52.2    | ug/L  | 2834640  | 3                     | 11.48 | 2713390 | 50.0 |
| Benzofuran           | 11.40 | 49.6    | ug/L  | 2694480  | 3                     | 11.48 | 2713390 | 50.0 |
| Indane               | 11.76 | 23.3    | ug/L  | 1261660  | 3                     | 11.48 | 2713390 | 50.0 |
| Indene               | 11.98 | 364.8   | ug/L  | 19796800 | 3                     | 11.48 | 2713390 | 50.0 |
| Benzene, 2-ethyl-... | 12.14 | 6.5     | ug/L  | 351271   | 3                     | 11.48 | 2713390 | 50.0 |
| Benzene, 1-methyl... | 12.22 | 6.2     | ug/L  | 334941   | 3                     | 11.48 | 2713390 | 50.0 |
| Benzofuran, 7-met... | 12.59 | 23.1    | ug/L  | 1256130  | 3                     | 11.48 | 2713390 | 50.0 |
| Benzene, 1-methyl... | 12.82 | 13.2    | ug/L  | 714284   | 3                     | 11.48 | 2713390 | 50.0 |
| 1H-Indene, 2,3-di... | 12.96 | 15.4    | ug/L  | 833370   | 3                     | 11.48 | 2713390 | 50.0 |
| (DEL) Alkane: Str... | 13.12 | 92.6    | ug/L  | 5026380  | 3                     | 11.48 | 2713390 | 50.0 |
| 2-Methylindene       | 13.18 | 114.2   | ug/L  | 6199210  | 3                     | 11.48 | 2713390 | 50.0 |
| Benzo[c]thiophene    | 13.86 | 75.2    | ug/L  | 4080000  | 3                     | 11.48 | 2713390 | 50.0 |
| (DEL) Alkane: Str... | 14.14 | 51.6    | ug/L  | 2800730  | 3                     | 11.48 | 2713390 | 50.0 |
| 1H-Indene, 1,3-di... | 14.33 | 43.1    | ug/L  | 2338000  | 3                     | 11.48 | 2713390 | 50.0 |
| Naphthalene, 1-me... | 15.06 | 475.4   | ug/L  | 25796300 | 3                     | 11.48 | 2713390 | 50.0 |
| Naphthalene, 1-et... | 15.79 | 41.9    | ug/L  | 2275480  | 3                     | 11.48 | 2713390 | 50.0 |
| Naphthalene, 2,6-... | 15.91 | 271.4   | ug/L  | 14726100 | 3                     | 11.48 | 2713390 | 50.0 |
| Naphthalene, 2,3-... | 16.06 | 229.2   | ug/L  | 12439500 | 3                     | 11.48 | 2713390 | 50.0 |
| Naphthalene, 1,5-... | 16.09 | 125.5   | ug/L  | 6810330  | 3                     | 11.48 | 2713390 | 50.0 |
| Naphthalene, 1,3-... | 16.43 | 33.6    | ug/L  | 1821290  | 3                     | 11.48 | 2713390 | 50.0 |
| Biphenylene          | 16.52 | 100.1   | ug/L  | 5430810  | 3                     | 11.48 | 2713390 | 50.0 |
| Naphthalene, 1,4,... | 17.16 | 31.6    | ug/L  | 1714200  | 3                     | 11.48 | 2713390 | 50.0 |
| Naphthalene, 2,3,... | 17.22 | 25.3    | ug/L  | 1370200  | 3                     | 11.48 | 2713390 | 50.0 |