

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU122118\  
 Data File : VU028873.D  
 Acq On : 21 Dec 2018 14:59  
 Operator : MD/SY  
 Sample : J6441-11DL 20X  
 Misc : 5.90g/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BF024DL

## 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\SOMULM122018WMA.M  
 Title : VOC Analysis

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|--------|----------|------------|----------|-----------|-------|-------------|------------|--------------|------------|
| 1      | 1.395    | 62         | 69       | 80        | rBV   | 82584       | 83217      | 1.80%        | 0.315%     |
| 2      | 1.662    | 144        | 152      | 168       | rVB   | 65267       | 80509      | 1.75%        | 0.305%     |
| 3      | 2.183    | 308        | 314      | 321       | rVB2  | 1188        | 1394       | 0.03%        | 0.005%     |
| 4      | 2.263    | 329        | 339      | 355       | rBV   | 126209      | 189164     | 4.10%        | 0.716%     |
| 5      | 2.366    | 368        | 371      | 372       | rBV2  | 381         | 170        | 0.00%        | 0.001%     |
| 6      | 2.463    | 398        | 401      | 403       | rBV2  | 336         | 226        | 0.00%        | 0.001%     |
| 7      | 2.476    | 403        | 405      | 408       | rVB   | 351         | 201        | 0.00%        | 0.001%     |
| 8      | 2.530    | 420        | 422      | 429       | rVB   | 254         | 208        | 0.00%        | 0.001%     |
| 9      | 2.624    | 446        | 451      | 454       | rBV   | 347         | 324        | 0.01%        | 0.001%     |
| 10     | 2.698    | 469        | 474      | 480       | rBV3  | 416         | 417        | 0.01%        | 0.002%     |
| 11     | 2.778    | 492        | 499      | 504       | rBV   | 231         | 228        | 0.00%        | 0.001%     |
| 12     | 2.836    | 509        | 517      | 524       | rBV3  | 772         | 1252       | 0.03%        | 0.005%     |
| 13     | 3.112    | 599        | 603      | 611       | rBV   | 140         | 148        | 0.00%        | 0.001%     |
| 14     | 3.392    | 685        | 690      | 696       | rVB   | 115         | 157        | 0.00%        | 0.001%     |
| 15     | 3.431    | 696        | 702      | 706       | rBV   | 135         | 146        | 0.00%        | 0.001%     |
| 16     | 3.472    | 712        | 715      | 724       | rVB   | 106         | 143        | 0.00%        | 0.001%     |
| 17     | 3.997    | 875        | 878      | 889       | rVB   | 270         | 193        | 0.00%        | 0.001%     |
| 18     | 4.180    | 920        | 935      | 964       | rBV   | 65792       | 172847     | 3.75%        | 0.654%     |
| 19     | 4.443    | 1013       | 1017     | 1019      | rBV   | 195         | 157        | 0.00%        | 0.001%     |
| 20     | 4.476    | 1023       | 1027     | 1031      | rBV2  | 180         | 137        | 0.00%        | 0.001%     |
| 21     | 4.505    | 1031       | 1036     | 1038      | rBV2  | 150         | 149        | 0.00%        | 0.001%     |
| 22     | 4.643    | 1063       | 1079     | 1103      | rBV   | 100863      | 232985     | 5.05%        | 0.882%     |
| 23     | 4.765    | 1113       | 1117     | 1122      | rBV2  | 197         | 158        | 0.00%        | 0.001%     |
| 24     | 4.881    | 1147       | 1153     | 1154      | rBV   | 374         | 319        | 0.01%        | 0.001%     |
| 25     | 4.993    | 1185       | 1188     | 1197      | rVB   | 234         | 242        | 0.01%        | 0.001%     |
| 26     | 5.337    | 1271       | 1295     | 1321      | rBV2  | 209746      | 616769     | 13.37%       | 2.335%     |
| 27     | 5.884    | 1451       | 1465     | 1491      | rBV   | 235180      | 453235     | 9.82%        | 1.716%     |
| 28     | 6.125    | 1537       | 1540     | 1544      | rBV   | 187         | 143        | 0.00%        | 0.001%     |
| 29     | 6.176    | 1551       | 1556     | 1562      | rVB3  | 611         | 731        | 0.02%        | 0.003%     |
| 30     | 6.328    | 1589       | 1603     | 1625      | rVV   | 144905      | 286097     | 6.20%        | 1.083%     |
| 31     | 6.463    | 1639       | 1645     | 1649      | rBV2  | 242         | 291        | 0.01%        | 0.001%     |
| 32     | 6.530    | 1660       | 1666     | 1669      | rBV   | 141         | 163        | 0.00%        | 0.001%     |
| 33     | 7.080    | 1833       | 1837     | 1840      | rBV   | 144         | 130        | 0.00%        | 0.000%     |
| 34     | 7.225    | 1871       | 1882     | 1903      | rBV   | 81356       | 141697     | 3.07%        | 0.536%     |

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Integrator: RTE  
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 Max Peaks: 100  
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
 Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM122018WMA.M  
 Title : VOC Analysis

|    |        |      |      |      |       |         |         |         |         |
|----|--------|------|------|------|-------|---------|---------|---------|---------|
| 35 | 7.421  | 1939 | 1943 | 1946 | rBV2  | 150     | 134     | 0.00%   | 0.001%  |
| 36 | 7.562  | 1975 | 1987 | 2009 | rBV   | 274150  | 483052  | 10.47%  | 1.829%  |
| 37 | 7.848  | 2062 | 2076 | 2096 | rBV   | 55180   | 92986   | 2.02%   | 0.352%  |
| 38 | 7.922  | 2096 | 2099 | 2103 | rVB3  | 680     | 479     | 0.01%   | 0.002%  |
| 39 | 7.942  | 2103 | 2105 | 2113 | rBV3  | 277     | 288     | 0.01%   | 0.001%  |
| 40 | 8.048  | 2135 | 2138 | 2141 | rBV2  | 296     | 136     | 0.00%   | 0.001%  |
| 41 | 8.151  | 2167 | 2170 | 2172 | rBV2  | 286     | 178     | 0.00%   | 0.001%  |
| 42 | 8.228  | 2189 | 2194 | 2195 | rBV2  | 800     | 662     | 0.01%   | 0.003%  |
| 43 | 8.311  | 2206 | 2220 | 2245 | rBV   | 234054  | 394215  | 8.54%   | 1.492%  |
| 44 | 8.472  | 2258 | 2270 | 2282 | rVB10 | 4185    | 10249   | 0.22%   | 0.039%  |
| 45 | 8.546  | 2282 | 2293 | 2300 | rVB7  | 1465    | 3183    | 0.07%   | 0.012%  |
| 46 | 8.582  | 2300 | 2304 | 2305 | rBV2  | 256     | 153     | 0.00%   | 0.001%  |
| 47 | 8.607  | 2305 | 2312 | 2322 | rVB5  | 1504    | 2413    | 0.05%   | 0.009%  |
| 48 | 8.694  | 2336 | 2339 | 2343 | rBV   | 210     | 149     | 0.00%   | 0.001%  |
| 49 | 8.816  | 2368 | 2377 | 2380 | rVV4  | 2389    | 3644    | 0.08%   | 0.014%  |
| 50 | 8.848  | 2381 | 2387 | 2396 | rVV6  | 6129    | 11342   | 0.25%   | 0.043%  |
| 51 | 8.909  | 2396 | 2406 | 2418 | rVB4  | 16594   | 28796   | 0.62%   | 0.109%  |
| 52 | 9.032  | 2434 | 2444 | 2451 | rBV2  | 13169   | 20985   | 0.45%   | 0.079%  |
| 53 | 9.090  | 2451 | 2462 | 2487 | rVB   | 336991  | 565321  | 12.25%  | 2.140%  |
| 54 | 9.250  | 2497 | 2512 | 2540 | rBV   | 2867553 | 4613423 | 100.00% | 17.466% |
| 55 | 9.373  | 2544 | 2550 | 2557 | rBV   | 26180   | 39603   | 0.86%   | 0.150%  |
| 56 | 9.443  | 2564 | 2572 | 2594 | rVB   | 118790  | 185625  | 4.02%   | 0.703%  |
| 57 | 9.565  | 2602 | 2610 | 2621 | rVB7  | 3869    | 6348    | 0.14%   | 0.024%  |
| 58 | 9.652  | 2625 | 2637 | 2643 | rBV5  | 4468    | 8088    | 0.18%   | 0.031%  |
| 59 | 9.717  | 2644 | 2657 | 2666 | rBV6  | 43840   | 85690   | 1.86%   | 0.324%  |
| 60 | 9.778  | 2667 | 2676 | 2685 | rBV   | 148769  | 236260  | 5.12%   | 0.894%  |
| 61 | 9.951  | 2711 | 2730 | 2739 | rBV3  | 66070   | 125638  | 2.72%   | 0.476%  |
| 62 | 10.009 | 2739 | 2748 | 2749 | rBV3  | 11666   | 13601   | 0.29%   | 0.051%  |
| 63 | 10.041 | 2751 | 2758 | 2767 | rVV4  | 50746   | 80941   | 1.75%   | 0.306%  |
| 64 | 10.163 | 2785 | 2796 | 2807 | rBV   | 206114  | 332296  | 7.20%   | 1.258%  |
| 65 | 10.254 | 2819 | 2824 | 2832 | rVB4  | 27530   | 36853   | 0.80%   | 0.140%  |
| 66 | 10.430 | 2869 | 2879 | 2893 | rBV2  | 222689  | 471217  | 10.21%  | 1.784%  |
| 67 | 10.585 | 2917 | 2927 | 2939 | rBV   | 557020  | 853670  | 18.50%  | 3.232%  |
| 68 | 10.681 | 2946 | 2957 | 2974 | rBV   | 2037618 | 4316986 | 93.57%  | 16.343% |
| 69 | 10.771 | 2974 | 2985 | 2992 | rVV   | 1027495 | 1592417 | 34.52%  | 6.029%  |
| 70 | 10.813 | 2993 | 2998 | 3009 | rVB   | 411040  | 551305  | 11.95%  | 2.087%  |
| 71 | 10.971 | 3036 | 3047 | 3067 | rBV   | 698205  | 1117217 | 24.22%  | 4.230%  |

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 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BF024DL

## Integration Parameters: LSCINT.P

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 Sampling : 1  
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 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
 Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM122018WMA.M  
 Title : VOC Analysis

|     |        |      |      |      |       |         |         |        |         |
|-----|--------|------|------|------|-------|---------|---------|--------|---------|
| 72  | 11.147 | 3085 | 3102 | 3128 | rVB   | 2446147 | 3870439 | 83.90% | 14.653% |
| 73  | 11.273 | 3132 | 3141 | 3143 | rBV2  | 33544   | 47097   | 1.02%  | 0.178%  |
| 74  | 11.395 | 3172 | 3179 | 3184 | rBV2  | 42593   | 63546   | 1.38%  | 0.241%  |
| 75  | 11.482 | 3197 | 3206 | 3215 | rBV   | 361184  | 543544  | 11.78% | 2.058%  |
| 76  | 11.569 | 3225 | 3233 | 3242 | rBV   | 567891  | 798555  | 17.31% | 3.023%  |
| 77  | 11.700 | 3267 | 3274 | 3283 | rVB   | 58506   | 83880   | 1.82%  | 0.318%  |
| 78  | 11.774 | 3285 | 3297 | 3304 | rBV3  | 242571  | 508714  | 11.03% | 1.926%  |
| 79  | 11.861 | 3314 | 3324 | 3343 | rVB4  | 467973  | 929340  | 20.14% | 3.518%  |
| 80  | 12.022 | 3366 | 3374 | 3383 | rBV   | 315350  | 440660  | 9.55%  | 1.668%  |
| 81  | 12.144 | 3405 | 3412 | 3416 | rBV   | 66806   | 89620   | 1.94%  | 0.339%  |
| 82  | 12.250 | 3437 | 3445 | 3454 | rVB   | 182186  | 280825  | 6.09%  | 1.063%  |
| 83  | 12.360 | 3473 | 3479 | 3497 | rVB10 | 19738   | 39969   | 0.87%  | 0.151%  |
| 84  | 12.610 | 3547 | 3557 | 3562 | rBV3  | 24603   | 40218   | 0.87%  | 0.152%  |
| 85  | 12.700 | 3578 | 3585 | 3593 | rBV2  | 28471   | 46242   | 1.00%  | 0.175%  |
| 86  | 12.938 | 3657 | 3659 | 3660 | rBV2  | 631     | 217     | 0.00%  | 0.001%  |
| 87  | 12.967 | 3662 | 3668 | 3682 | rVB8  | 5425    | 9258    | 0.20%  | 0.035%  |
| 88  | 13.028 | 3684 | 3687 | 3689 | rBV2  | 1612    | 1200    | 0.03%  | 0.005%  |
| 89  | 13.125 | 3708 | 3717 | 3732 | rBV2  | 25402   | 41500   | 0.90%  | 0.157%  |
| 90  | 13.247 | 3748 | 3755 | 3763 | rBV3  | 13709   | 21369   | 0.46%  | 0.081%  |
| 91  | 13.405 | 3799 | 3804 | 3805 | rBV2  | 511     | 444     | 0.01%  | 0.002%  |
| 92  | 13.504 | 3829 | 3835 | 3842 | rBV4  | 565     | 894     | 0.02%  | 0.003%  |
| 93  | 13.614 | 3862 | 3869 | 3879 | rVB6  | 1982    | 3321    | 0.07%  | 0.013%  |
| 94  | 13.707 | 3893 | 3898 | 3899 | rBV2  | 324     | 280     | 0.01%  | 0.001%  |
| 95  | 14.057 | 4005 | 4007 | 4011 | rVB   | 419     | 258     | 0.01%  | 0.001%  |
| 96  | 14.128 | 4027 | 4029 | 4030 | rBV   | 349     | 137     | 0.00%  | 0.001%  |
| 97  | 14.147 | 4032 | 4035 | 4042 | rVB3  | 853     | 785     | 0.02%  | 0.003%  |
| 98  | 14.192 | 4047 | 4049 | 4058 | rBV3  | 256     | 268     | 0.01%  | 0.001%  |
| 99  | 14.276 | 4068 | 4075 | 4079 | rBV4  | 945     | 1503    | 0.03%  | 0.006%  |
| 100 | 14.321 | 4086 | 4089 | 4090 | rBV   | 309     | 181     | 0.00%  | 0.001%  |

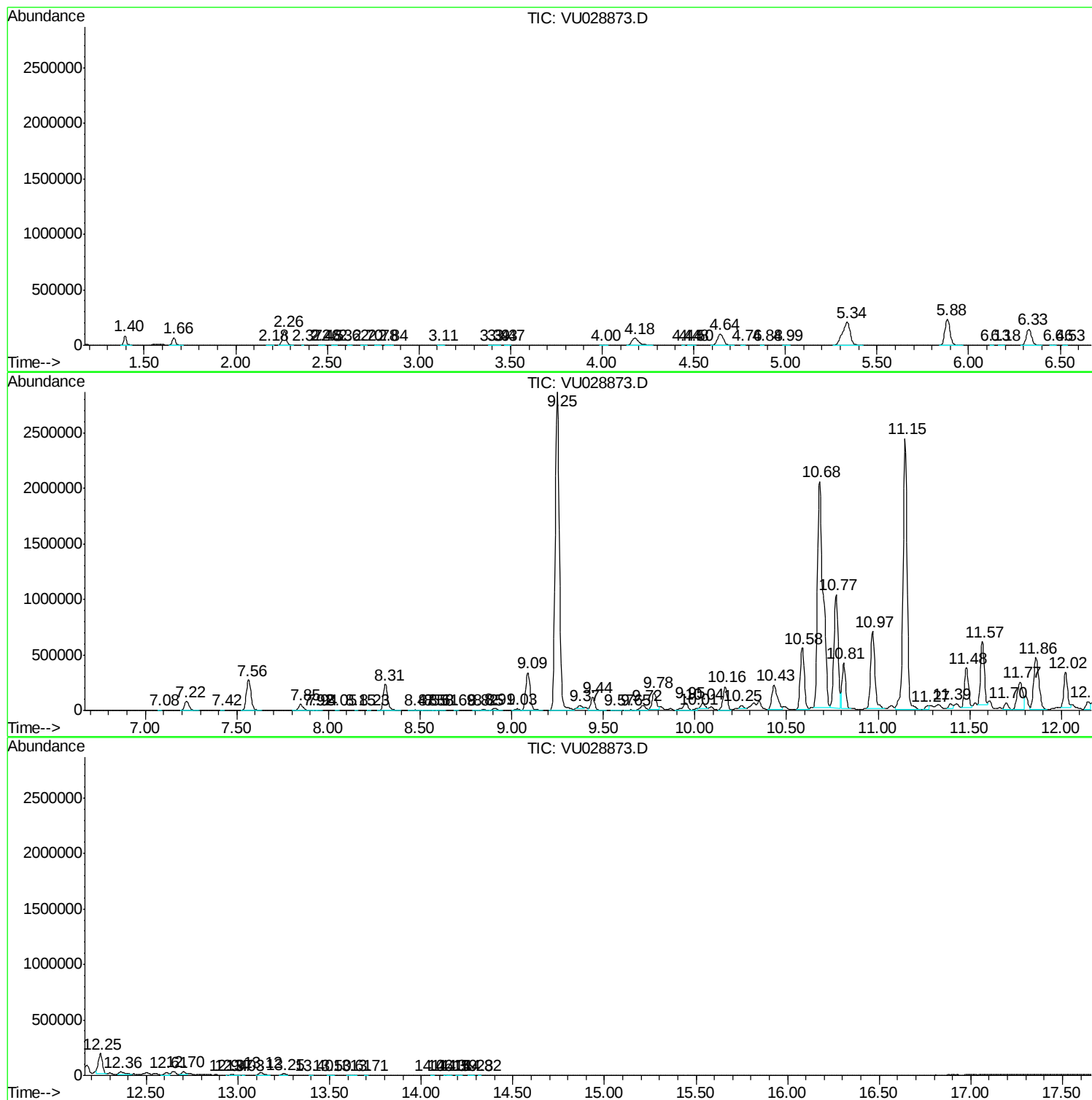
Sum of corrected areas: 26414154

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Instrument :  
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ClientSampleId :  
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM122018WMA.M  
Quant Title : VOC Analysis

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



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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM122018WMA.M  
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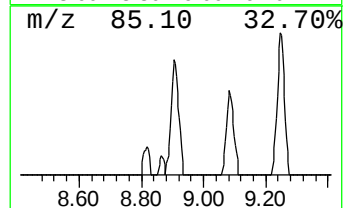
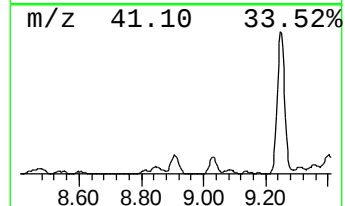
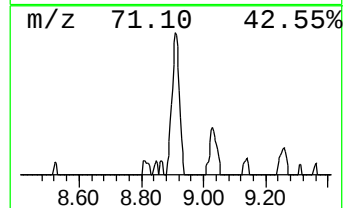
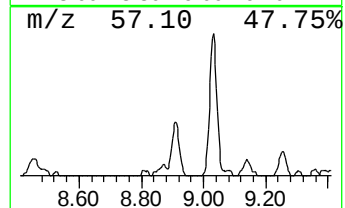
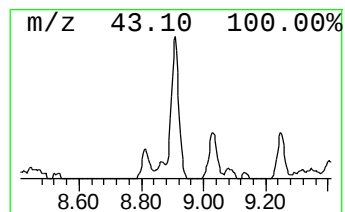
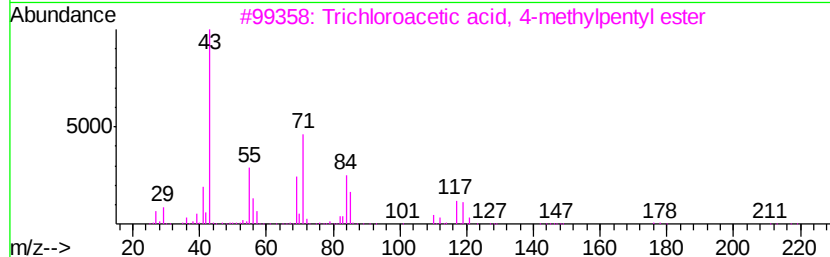
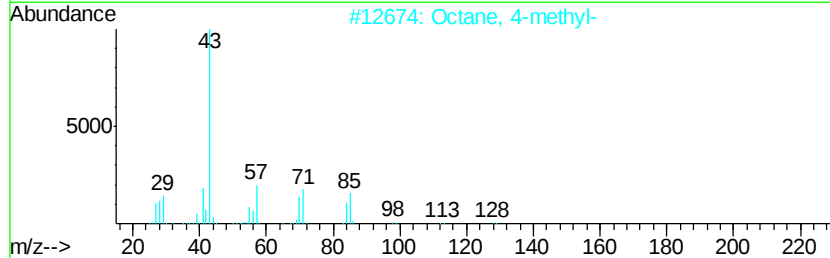
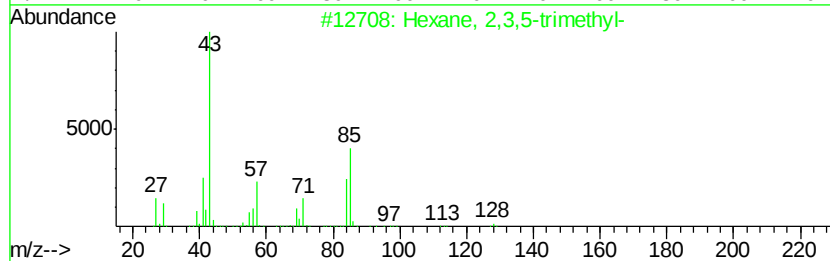
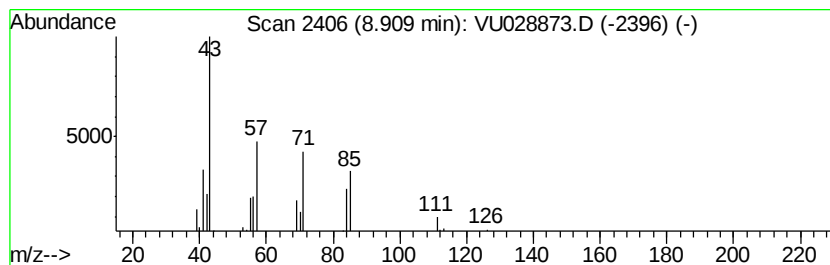
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 2 (DEL) Alkane: Straight-Chai... Concentration Rank 25

| R.T. | EstConc   | Area  | Relative to ISTD | R.T. |
|------|-----------|-------|------------------|------|
| 8.91 | 2.55 ug/L | 28796 | Chlorobenzene-d5 | 9.09 |

| Hit# | of | Tentative ID                        | MW  | MolForm    | CAS#         | Qual |
|------|----|-------------------------------------|-----|------------|--------------|------|
| 1    | 5  | Hexane, 2,3,5-trimethyl-            | 128 | C9H20      | 001069-53-0  | 47   |
| 2    |    | Octane, 4-methyl-                   | 128 | C9H20      | 002216-34-4  | 47   |
| 3    |    | Trichloroacetic acid, 4-methylpe... | 246 | C8H13Cl3O2 | 1000282-35-2 | 43   |
| 4    |    | Octane, 2-methyl-                   | 128 | C9H20      | 003221-61-2  | 42   |
| 5    |    | 1-Butanol, 2-ethyl-                 | 102 | C6H14O     | 000097-95-0  | 40   |



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 Quant Title : VOC Analysis

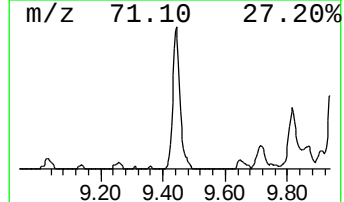
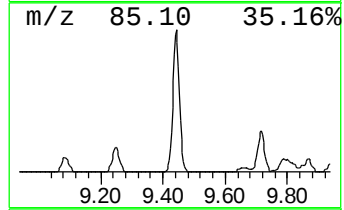
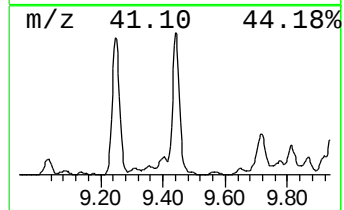
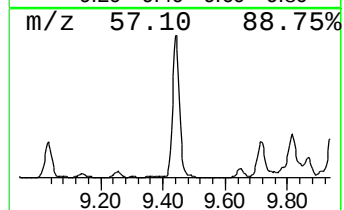
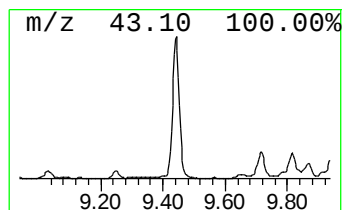
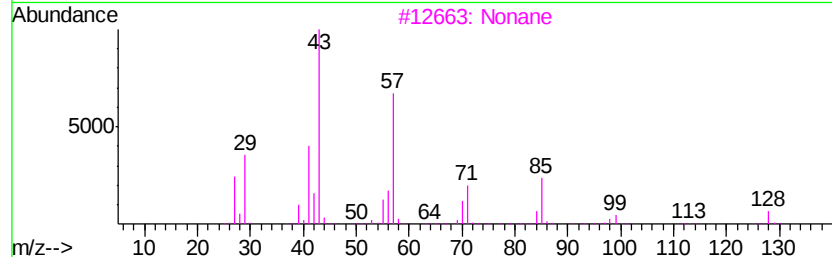
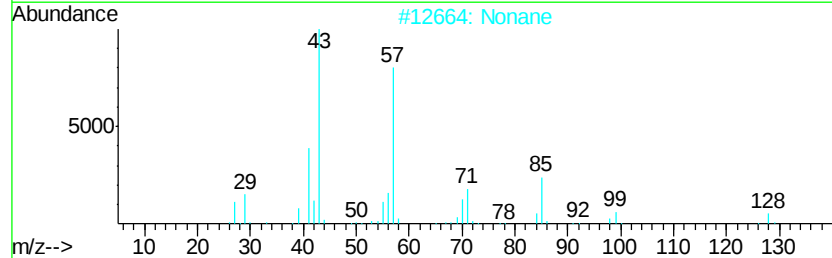
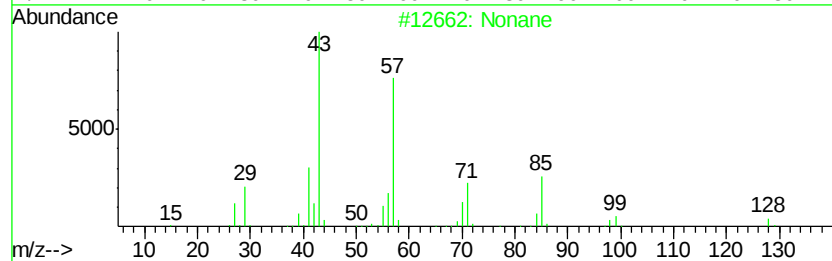
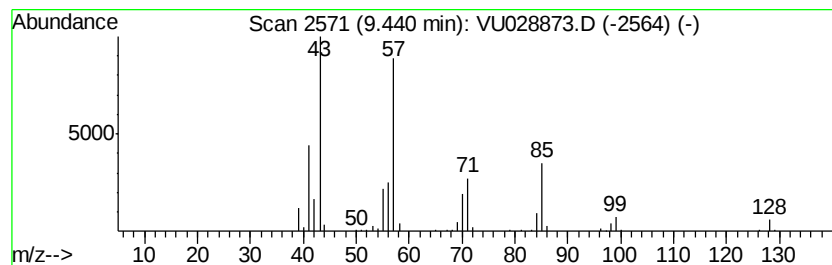
TIC Library : C:\DATABASE\NIST11.L  
 TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
 Peak Number 3 (DEL) Alkane: Straight-Chai... Concentration Rank 11

| R.T. | EstConc    | Area   | Relative to ISTD | R.T. |
|------|------------|--------|------------------|------|
| 9.44 | 16.42 ug/L | 185625 | Chlorobenzene-d5 | 9.09 |

| Hit# | of | Tentative ID          | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------|-----|---------|-------------|------|
| 1    | 5  | Nonane                | 128 | C9H20   | 000111-84-2 | 94   |
| 2    |    | Nonane                | 128 | C9H20   | 000111-84-2 | 87   |
| 3    |    | Nonane                | 128 | C9H20   | 000111-84-2 | 80   |
| 4    |    | Octane                | 114 | C8H18   | 000111-65-9 | 64   |
| 5    |    | Hexane, 2,4-dimethyl- | 114 | C8H18   | 000589-43-5 | 59   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU122118\  
Data File : VU028873.D  
Acq On : 21 Dec 2018 14:59  
Operator : MD/SY  
Sample : J6441-11DL 20X  
Misc : 5.90uL/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
BF024DL

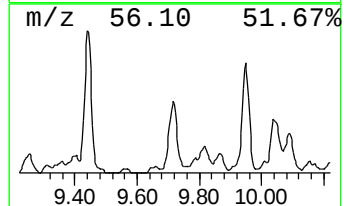
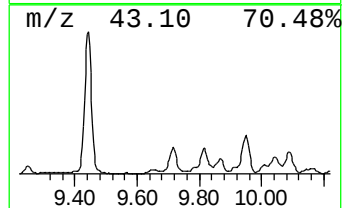
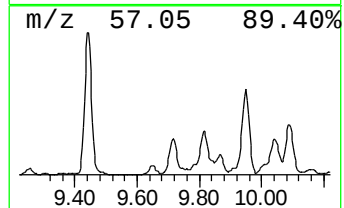
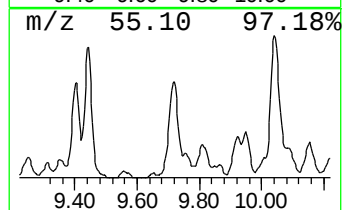
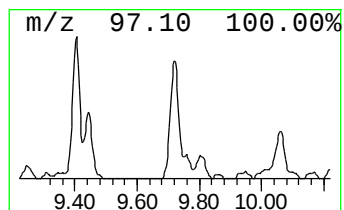
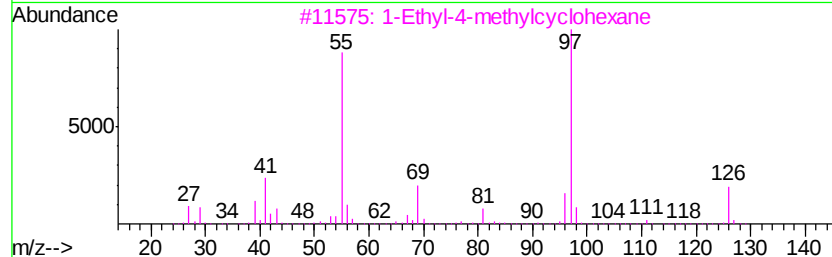
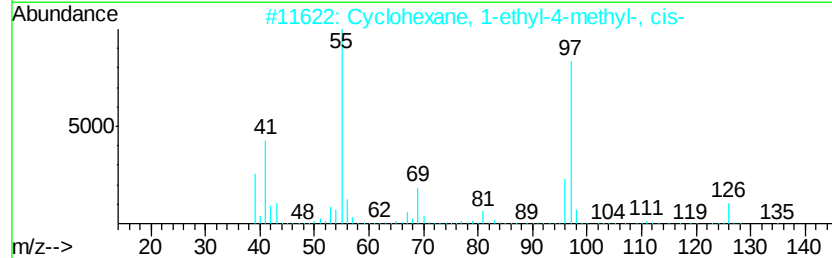
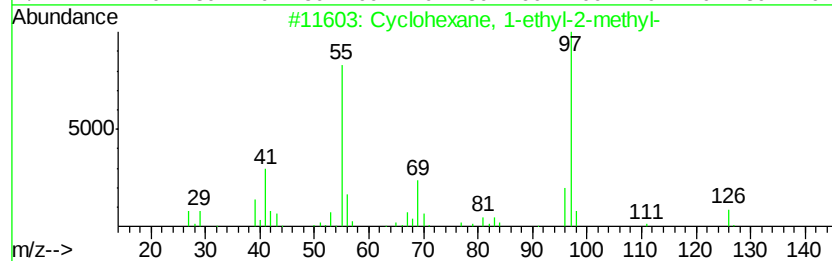
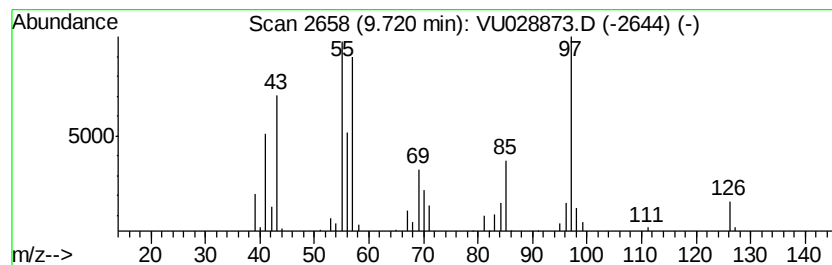
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Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 4 (DEL) Alkane: Cyclic9.72 Concentration Rank 16

| R.T. | EstConc   | Area  | Relative to ISTD | R.T. |
|------|-----------|-------|------------------|------|
| 9.72 | 7.58 ug/L | 85690 | Chlorobenzene-d5 | 9.09 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Cyclohexane, 1-ethyl-2-methyl-      | 126 | C9H18   | 003728-54-9 | 46   |
| 2    |    | Cyclohexane, 1-ethyl-4-methyl-, ... | 126 | C9H18   | 004926-78-7 | 43   |
| 3    |    | 1-Ethyl-4-methylcyclohexane         | 126 | C9H18   | 003728-56-1 | 43   |
| 4    |    | Cyclohexane, 1-ethyl-2-methyl-, ... | 126 | C9H18   | 004923-78-8 | 43   |
| 5    |    | Cyclohexane, 1-ethyl-4-methyl-, ... | 126 | C9H18   | 006236-88-0 | 43   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU122118\  
Data File : VU028873.D  
Acq On : 21 Dec 2018 14:59  
Operator : MD/SY  
Sample : J6441-11DL 20X  
Misc : 5.90µ/5mL/100µL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 15 Sample Multiplier: 1

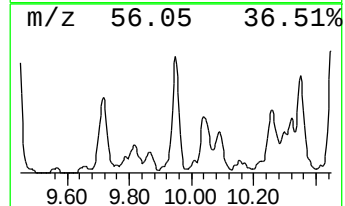
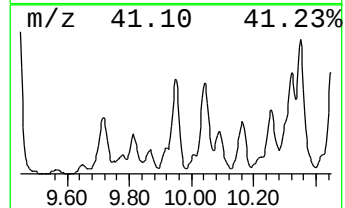
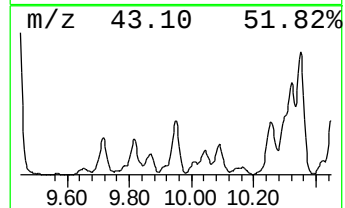
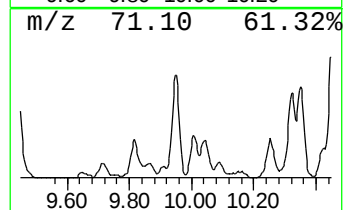
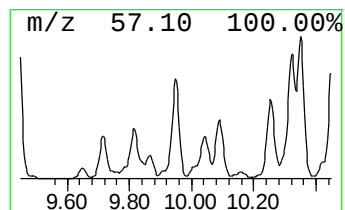
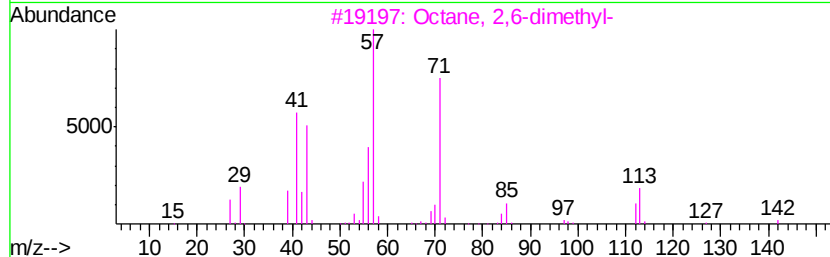
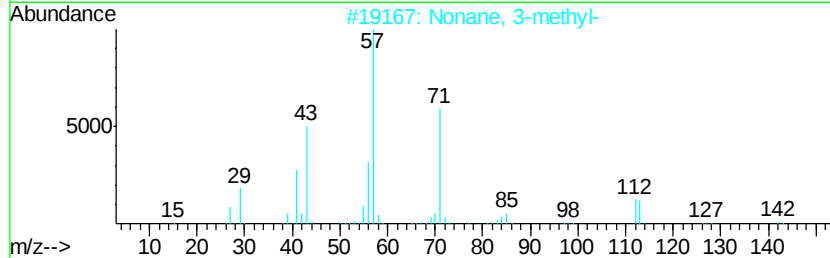
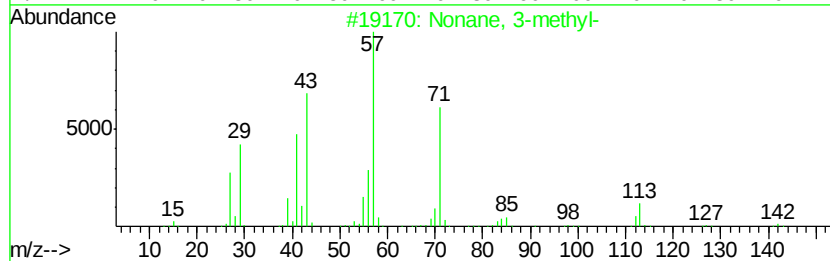
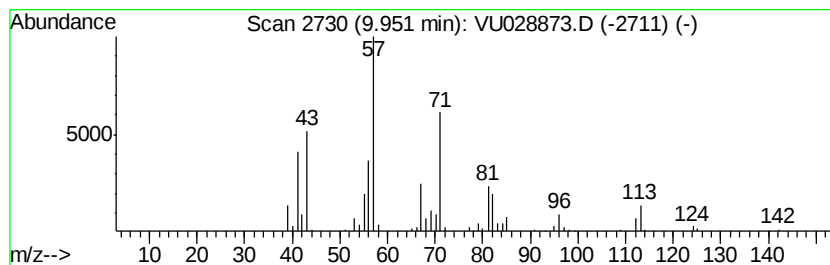
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ClientSampleId :  
BF024DL

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Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 5 (DEL) Alkane: Straight-Chai... Concentration Rank 13

| R.T.      | EstConc               | Area   | Relative to ISTD | R.T.        |      |
|-----------|-----------------------|--------|------------------|-------------|------|
| 9.95      | 11.11 ug/L            | 125638 | Chlorobenzene-d5 | 9.09        |      |
| Hit# of 5 | Tentative ID          | MW     | MolForm          | CAS#        | Qual |
| 1         | Nonane, 3-methyl-     | 142    | C10H22           | 005911-04-6 | 60   |
| 2         | Nonane, 3-methyl-     | 142    | C10H22           | 005911-04-6 | 60   |
| 3         | Octane, 2,6-dimethyl- | 142    | C10H22           | 002051-30-1 | 55   |
| 4         | Octane, 2,6-dimethyl- | 142    | C10H22           | 002051-30-1 | 53   |
| 5         | Nonane, 3-methyl-     | 142    | C10H22           | 005911-04-6 | 53   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU122118\  
Data File : VU028873.D  
Acq On : 21 Dec 2018 14:59  
Operator : MD/SY  
Sample : J6441-11DL 20X  
Misc : 5.90uL/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
BF024DL

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM122018WMA.M  
Quant Title : VOC Analysis

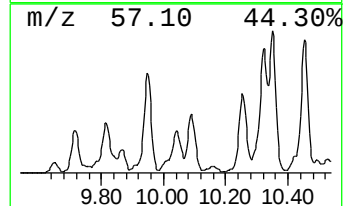
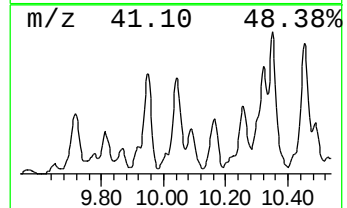
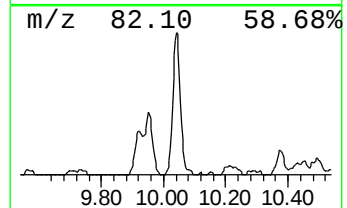
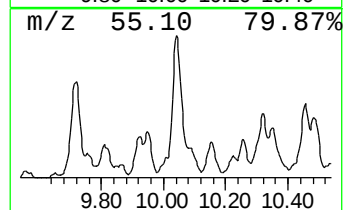
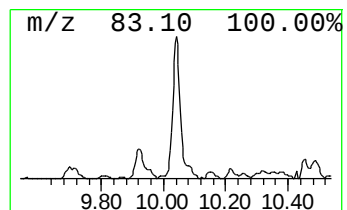
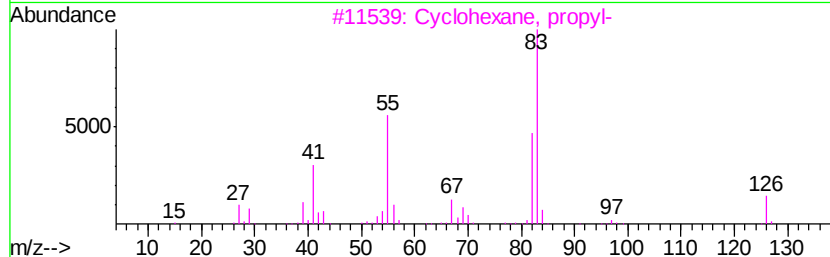
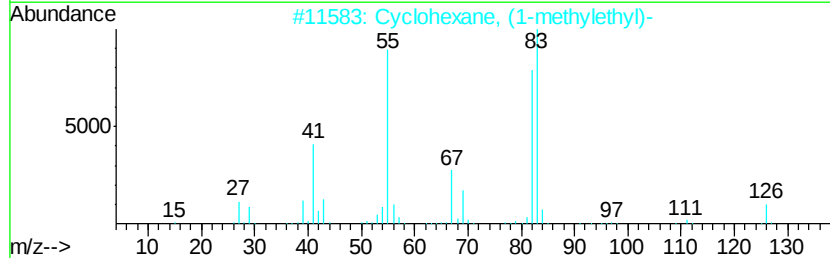
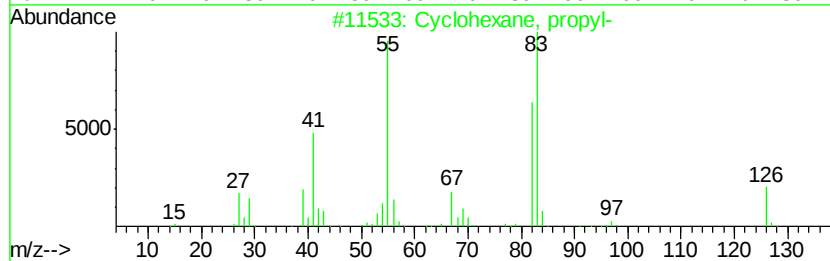
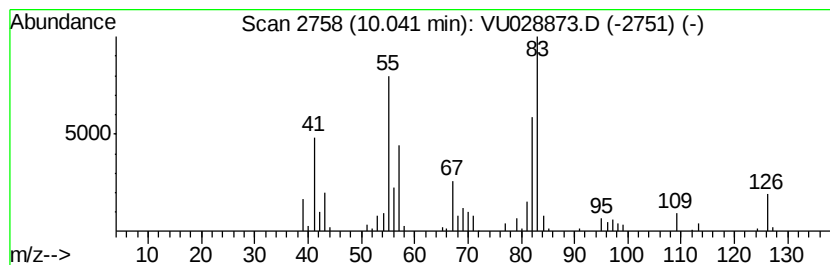
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TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 6 (DEL) Alkane: Cyclic10.04 Concentration Rank 17

| R.T.  | EstConc   | Area  | Relative to ISTD | R.T. |
|-------|-----------|-------|------------------|------|
| 10.04 | 7.16 ug/L | 80941 | Chlorobenzene-d5 | 9.09 |

| Hit# | of | Tentative ID                  | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------|-----|---------|-------------|------|
| 1    | 5  | Cyclohexane, propyl-          | 126 | C9H18   | 001678-92-8 | 81   |
| 2    |    | Cyclohexane, (1-methylethyl)- | 126 | C9H18   | 000696-29-7 | 81   |
| 3    |    | Cyclohexane, propyl-          | 126 | C9H18   | 001678-92-8 | 74   |
| 4    |    | Cyclohexane, propyl-          | 126 | C9H18   | 001678-92-8 | 72   |
| 5    |    | Cyclohexane, propyl-          | 126 | C9H18   | 001678-92-8 | 72   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU122118\  
Data File : VU028873.D  
Acq On : 21 Dec 2018 14:59  
Operator : MD/SY  
Sample : J6441-11DL 20X  
Misc : 5.90g/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
BF024DL

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM122018WMA.M  
Quant Title : VOC Analysis

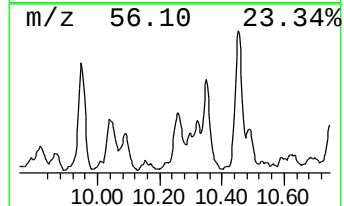
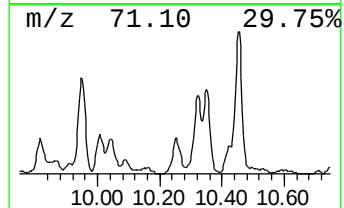
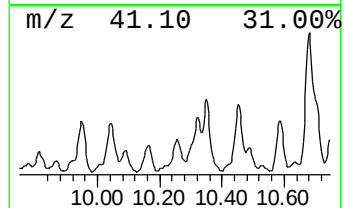
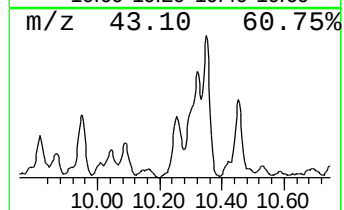
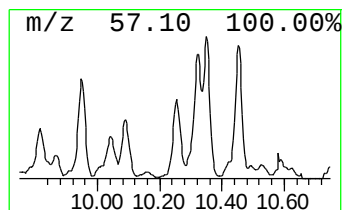
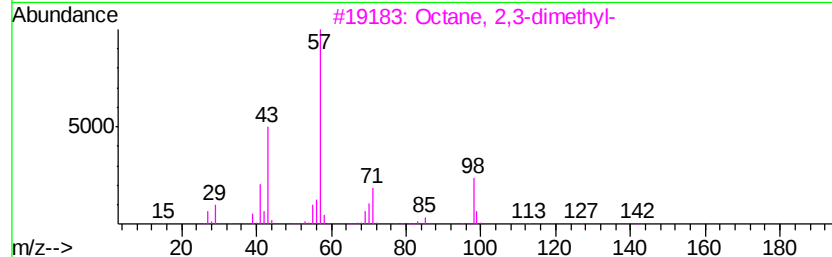
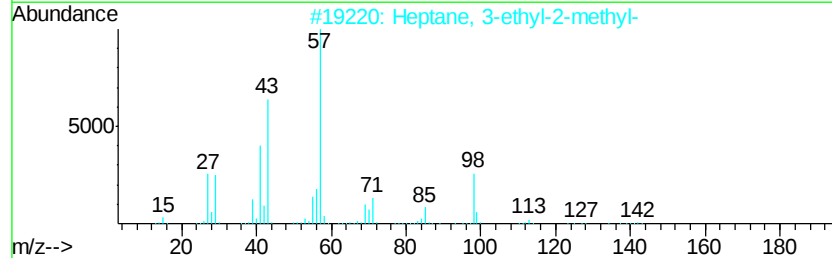
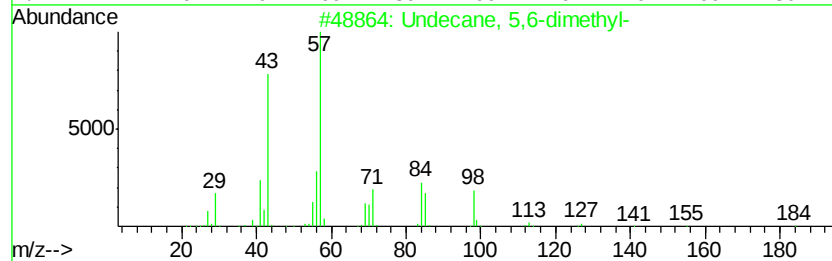
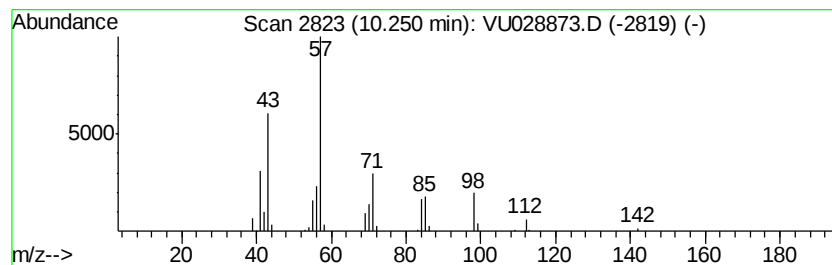
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TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 7 (DEL) Alkane: Straight-Chai... Concentration Rank 24

| R.T.  | EstConc   | Area  | Relative to ISTD | R.T. |
|-------|-----------|-------|------------------|------|
| 10.25 | 3.26 ug/L | 36853 | Chlorobenzene-d5 | 9.09 |

| Hit# | of | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------|-----|---------|-------------|------|
| 1    | 5  | Undecane, 5,6-dimethyl-    | 184 | C13H28  | 017615-91-7 | 80   |
| 2    |    | Heptane, 3-ethyl-2-methyl- | 142 | C10H22  | 014676-29-0 | 53   |
| 3    |    | Octane, 2,3-dimethyl-      | 142 | C10H22  | 007146-60-3 | 50   |
| 4    |    | Decane, 5-methyl-          | 156 | C11H24  | 013151-35-4 | 50   |
| 5    |    | Decane                     | 142 | C10H22  | 000124-18-5 | 43   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU122118\  
Data File : VU028873.D  
Acq On : 21 Dec 2018 14:59  
Operator : MD/SY  
Sample : J6441-11DL 20X  
Misc : 5.90µ/5mL/100µL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 15 Sample Multiplier: 1

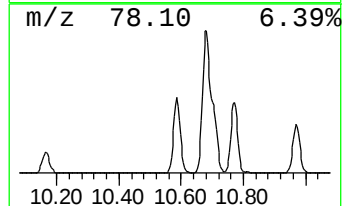
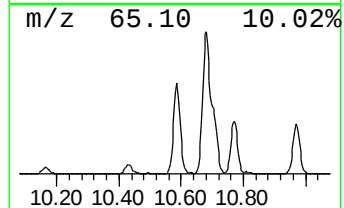
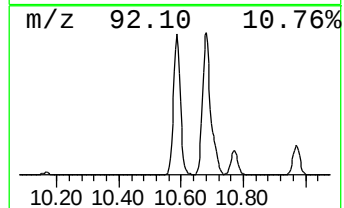
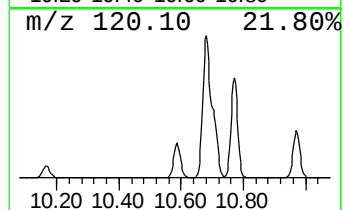
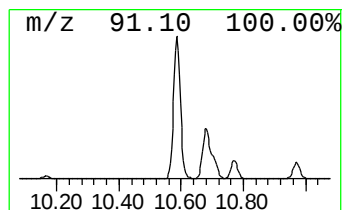
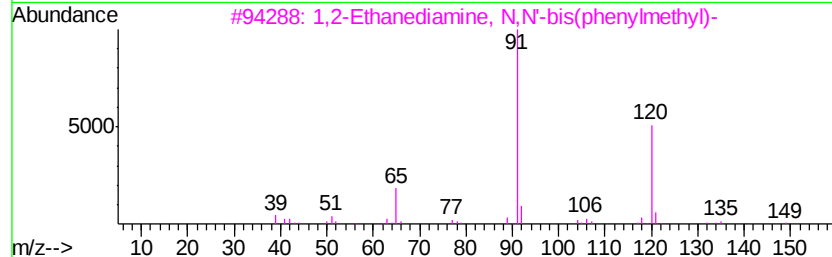
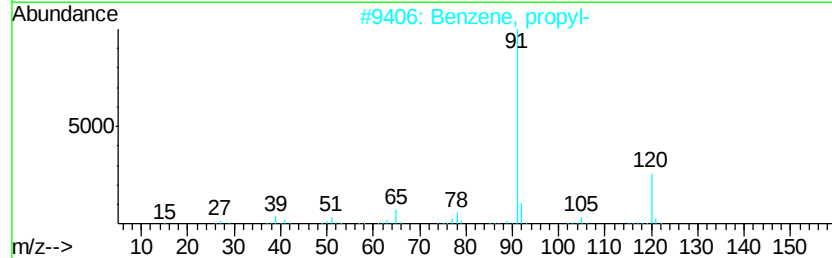
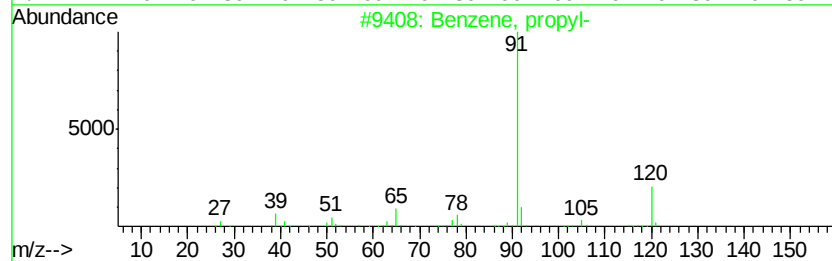
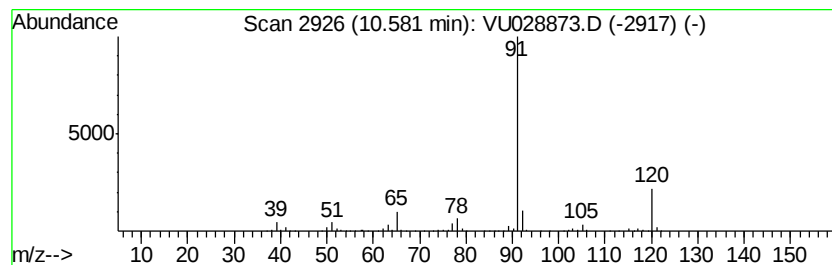
Instrument :  
MSVOA\_U  
ClientSampleId :  
BF024DL

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM122018WMA.M  
Quant Title : VOC Analysis

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

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Peak Number 8 Benzene, propyl- Concentration Rank 5

| R.T.      | EstConc                             | Area   | Relative to ISTD       | R.T.        |      |
|-----------|-------------------------------------|--------|------------------------|-------------|------|
| 10.58     | 78.53 ug/L                          | 853670 | 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 | 90   |
| 3         | 1,2-Ethanediamine, N,N'-bis(phen... | 240    | C16H20N2               | 000140-28-3 | 64   |
| 4         | n-Butylbenzylamine                  | 163    | C11H17N                | 002403-22-7 | 64   |
| 5         | Ethanol, 2-[(phenylmethyl)amino]-   | 151    | C9H13NO                | 000104-63-2 | 56   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU122118\  
Data File : VU028873.D  
Acq On : 21 Dec 2018 14:59  
Operator : MD/SY  
Sample : J6441-11DL 20X  
Misc : 5.90µ/5mL/100µL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 15 Sample Multiplier: 1

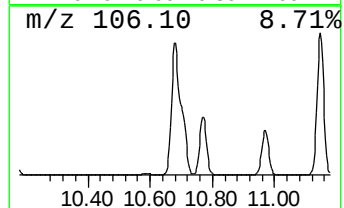
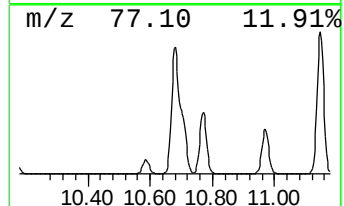
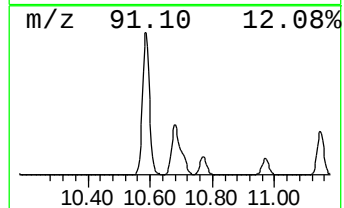
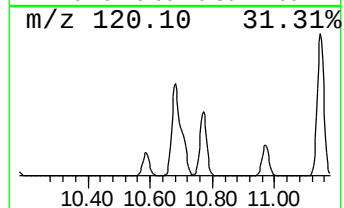
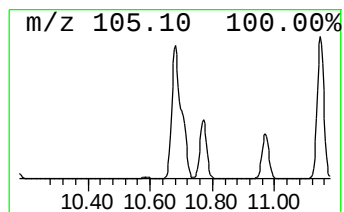
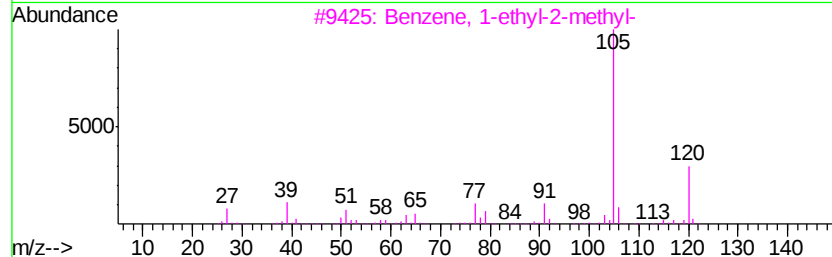
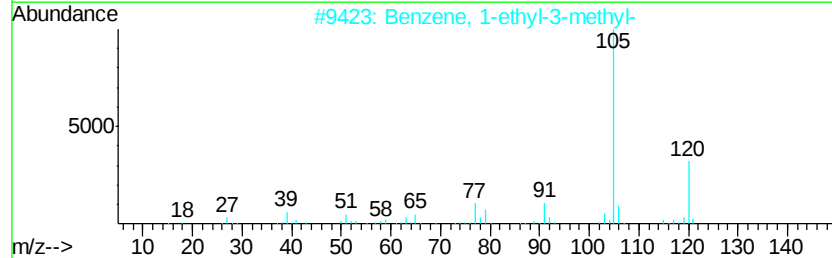
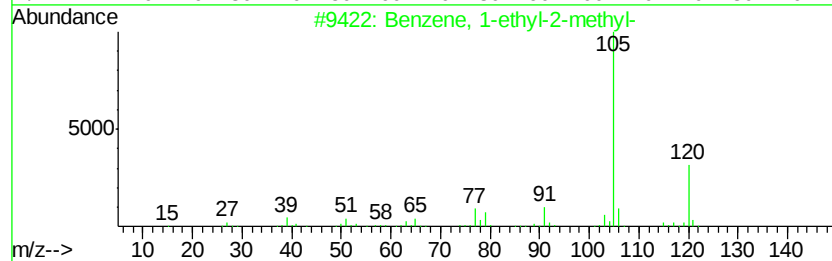
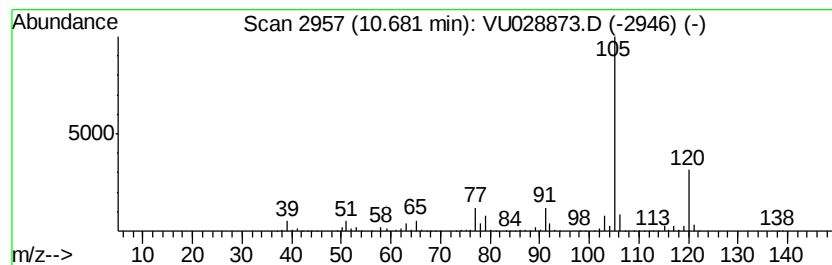
Instrument :  
MSVOA\_U  
ClientSampleId :  
BF024DL

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM122018WMA.M  
Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 9 Benzene, 1-ethyl-2-methyl- Concentration Rank 1

| R.T.      | EstConc                    | Area    | Relative to ISTD       | R.T.        |      |
|-----------|----------------------------|---------|------------------------|-------------|------|
| 10.68     | 397.12 ug/L                | 4316990 | 1,4-Dichlorobenzene-d4 | 11.48       |      |
| Hit# of 5 | Tentative ID               | MW      | MolForm                | CAS#        | Qual |
| 1         | Benzene, 1-ethyl-2-methyl- | 120     | C9H12                  | 000611-14-3 | 95   |
| 2         | Benzene, 1-ethyl-3-methyl- | 120     | C9H12                  | 000620-14-4 | 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         | Mesitylene                 | 120     | C9H12                  | 000108-67-8 | 91   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU122118\  
Data File : VU028873.D  
Acq On : 21 Dec 2018 14:59  
Operator : MD/SY  
Sample : J6441-11DL 20X  
Misc : 5.90uL/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
BF024DL

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM122018WMA.M  
Quant Title : VOC Analysis

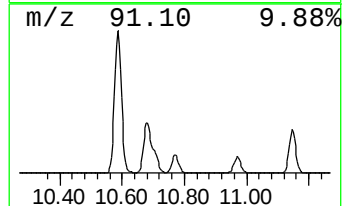
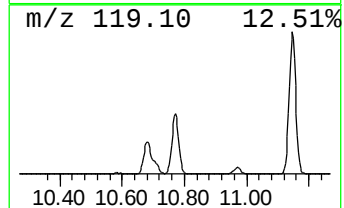
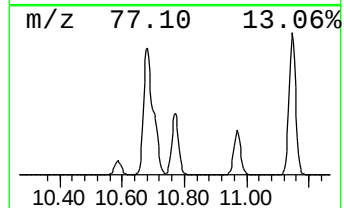
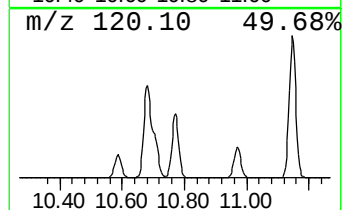
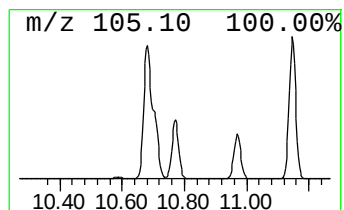
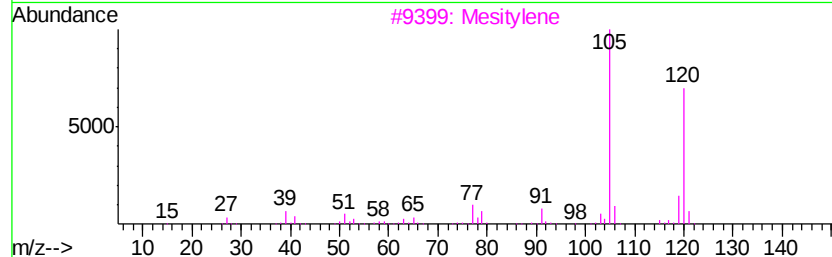
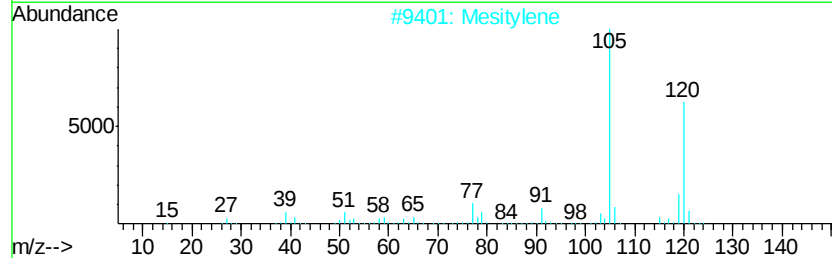
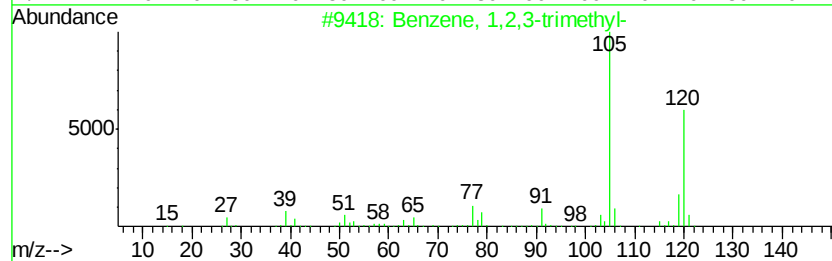
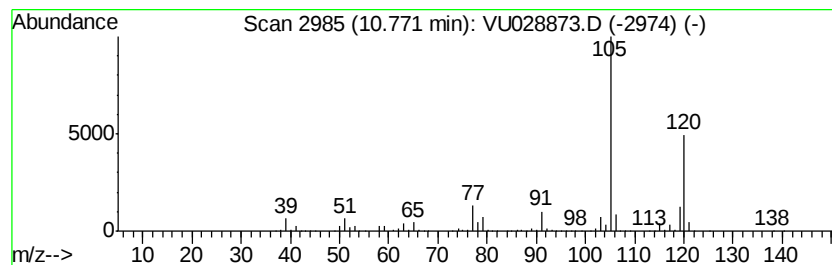
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 10 Benzene, 1,2,3-trimethyl- Concentration Rank 3

| R.T.  | EstConc     | Area    | Relative to ISTD       | R.T.  |
|-------|-------------|---------|------------------------|-------|
| 10.77 | 146.49 ug/L | 1592420 | 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 | 95   |
| 3    |    | Mesitylene                | 120 | C9H12   | 000108-67-8 | 95   |
| 4    |    | Benzene, 1,2,4-trimethyl- | 120 | C9H12   | 000095-63-6 | 95   |
| 5    |    | Benzene, 1,2,4-trimethyl- | 120 | C9H12   | 000095-63-6 | 94   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU122118\  
Data File : VU028873.D  
Acq On : 21 Dec 2018 14:59  
Operator : MD/SY  
Sample : J6441-11DL 20X  
Misc : 5.90uL/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
BF024DL

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM122018WMA.M  
Quant Title : VOC Analysis

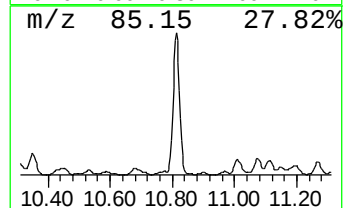
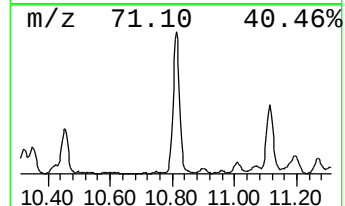
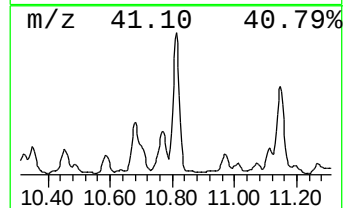
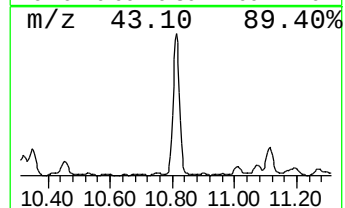
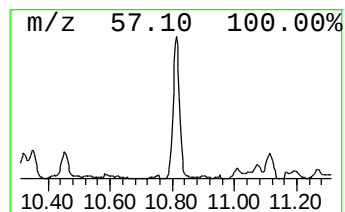
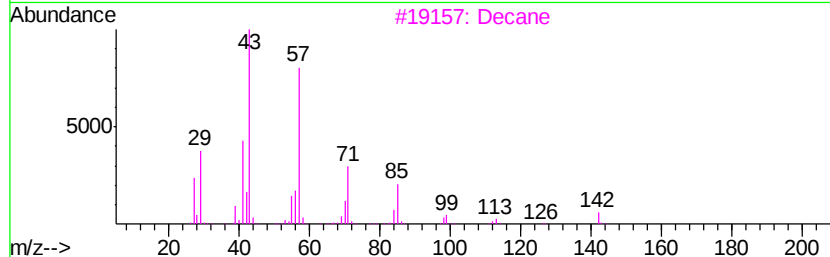
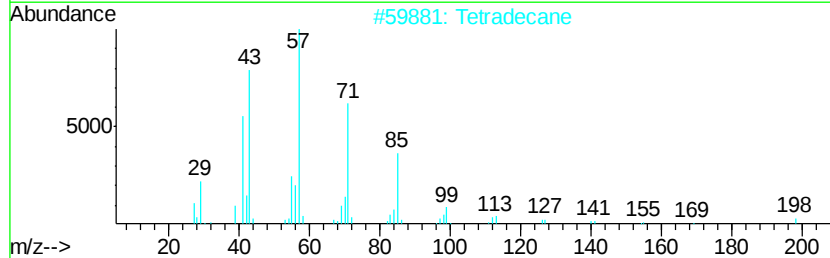
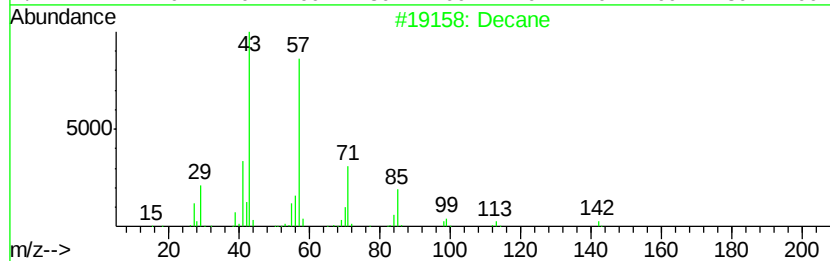
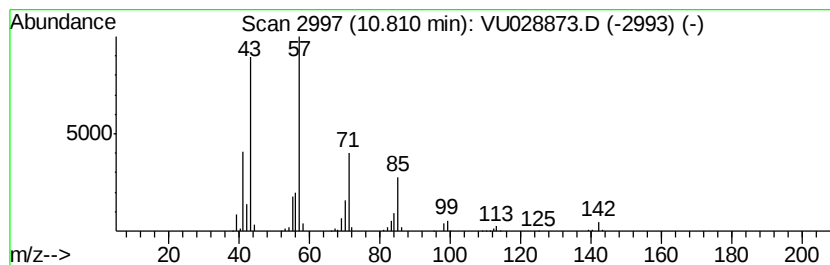
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 11 (DEL) Alkane: Straight-Chai... Concentration Rank 7

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 10.81 | 50.71 ug/L | 551305 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# | of | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------|-----|---------|-------------|------|
| 1    | 5  | Decane                  | 142 | C10H22  | 000124-18-5 | 87   |
| 2    |    | Tetradecane             | 198 | C14H30  | 000629-59-4 | 86   |
| 3    |    | Decane                  | 142 | C10H22  | 000124-18-5 | 81   |
| 4    |    | Decane                  | 142 | C10H22  | 000124-18-5 | 76   |
| 5    |    | 1-Iodo-2-methylundecane | 296 | C12H25I | 073105-67-6 | 72   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU122118\  
Data File : VU028873.D  
Acq On : 21 Dec 2018 14:59  
Operator : MD/SY  
Sample : J6441-11DL 20X  
Misc : 5.90uL/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
BF024DL

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM122018WMA.M  
Quant Title : VOC Analysis

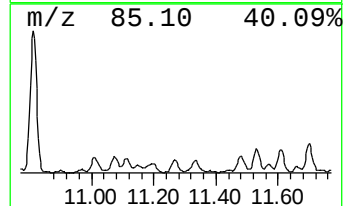
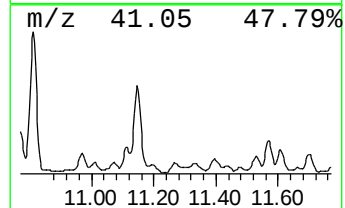
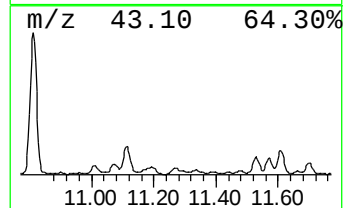
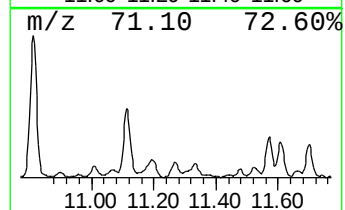
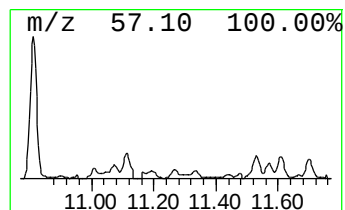
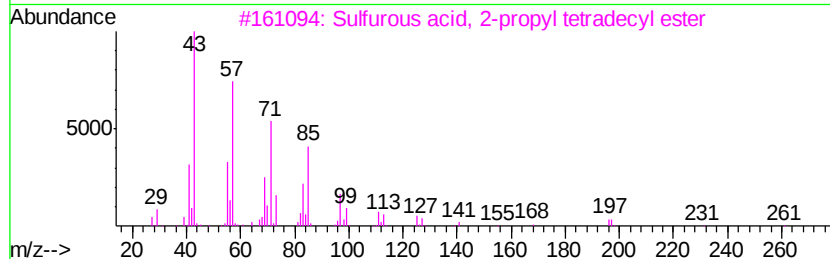
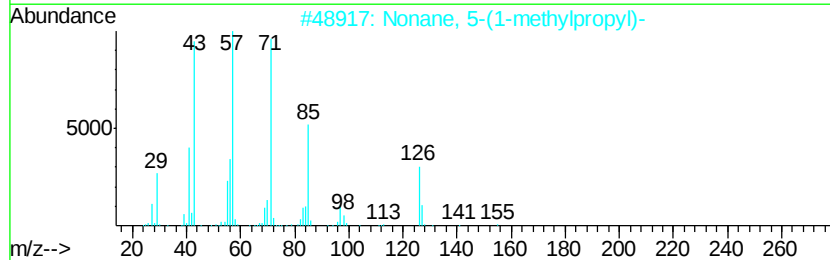
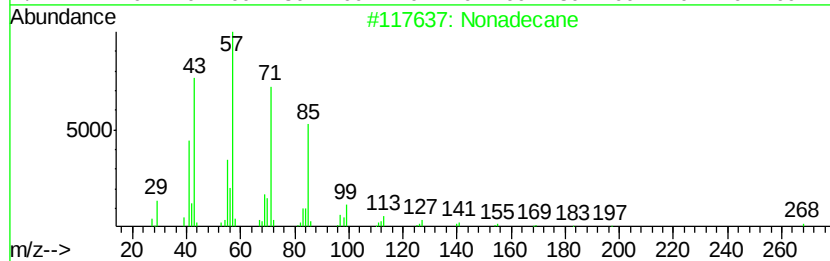
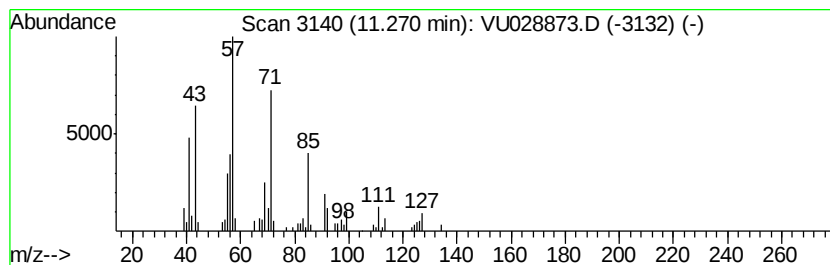
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 14 (DEL) Alkane: Straight-Chai... Concentration Rank 19

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 11.27 | 4.33 ug/L | 47097 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# | of | Tentative ID                           | MW  | MolForm   | CAS#         | Qual |
|------|----|----------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | Nonadecane                             | 268 | C19H40    | 000629-92-5  | 58   |
| 2    |    | Nonane, 5-(1-methylpropyl)-            | 184 | C13H28    | 062185-54-0  | 53   |
| 3    |    | Sulfurous acid, 2-propyl tetradecyl... | 320 | C17H36O3S | 1000309-12-5 | 53   |
| 4    |    | Nonane, 3,7-dimethyl-                  | 156 | C11H24    | 017302-32-8  | 53   |
| 5    |    | Dodecane, 2,6,10-trimethyl-            | 212 | C15H32    | 003891-98-3  | 53   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU122118\  
Data File : VU028873.D  
Acq On : 21 Dec 2018 14:59  
Operator : MD/SY  
Sample : J6441-11DL 20X  
Misc : 5.90µ/5mL/100µL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
BF024DL

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM122018WMA.M  
Quant Title : VOC Analysis

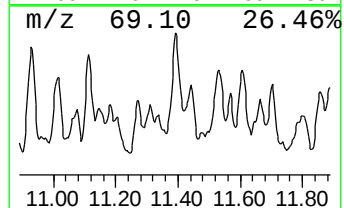
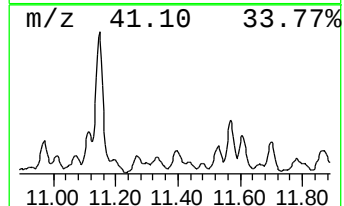
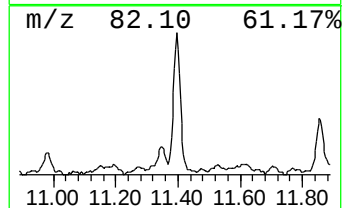
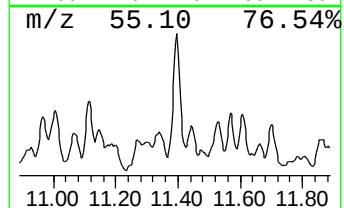
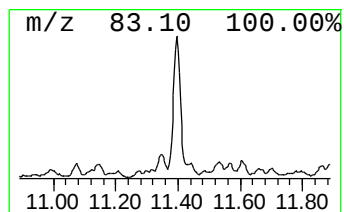
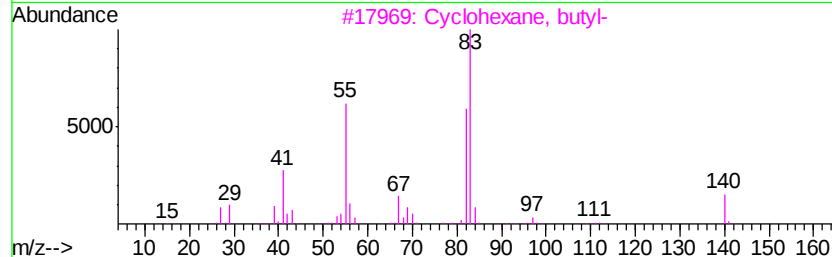
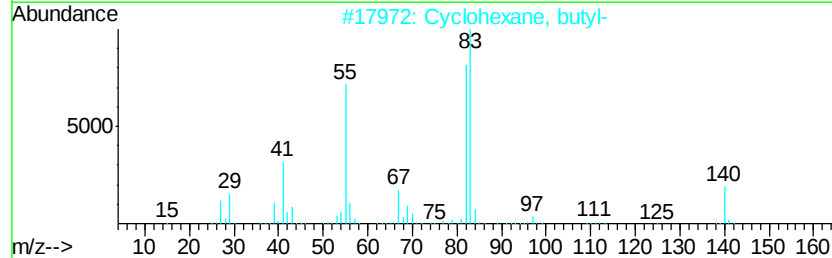
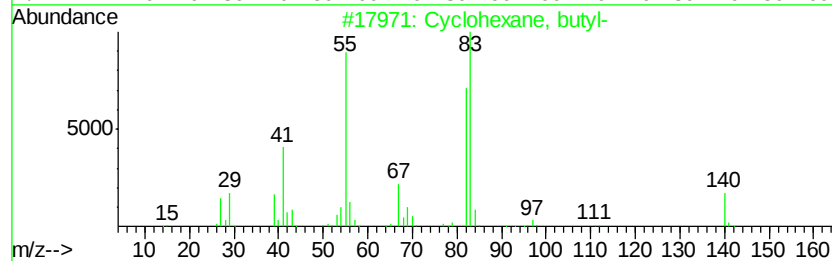
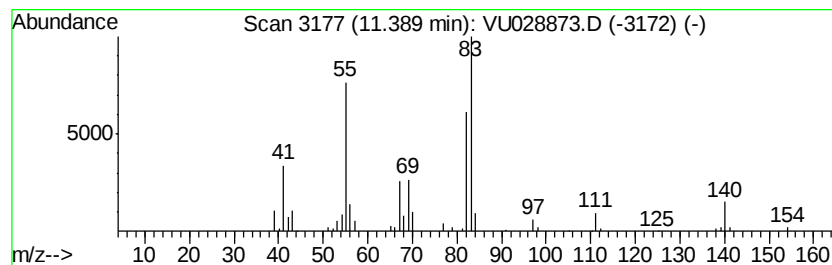
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 15 (DEL) Alkane: Cyclic11.39 Concentration Rank 18

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 11.39 | 5.85 ug/L | 63546 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# | of | 5 | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|---|--------------------------------|-----|---------|-------------|------|
| 1    |    |   | Cyclohexane, butyl-            | 140 | C10H20  | 001678-93-9 | 91   |
| 2    |    |   | Cyclohexane, butyl-            | 140 | C10H20  | 001678-93-9 | 90   |
| 3    |    |   | Cyclohexane, butyl-            | 140 | C10H20  | 001678-93-9 | 87   |
| 4    |    |   | Cyclohexane, (1-methylethyl)-  | 126 | C9H18   | 000696-29-7 | 72   |
| 5    |    |   | Cyclohexane, (2-methylpropyl)- | 140 | C10H20  | 001678-98-4 | 72   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU122118\  
Data File : VU028873.D  
Acq On : 21 Dec 2018 14:59  
Operator : MD/SY  
Sample : J6441-11DL 20X  
Misc : 5.90µ/5mL/100µL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
BF024DL

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM122018WMA.M  
Quant Title : VOC Analysis

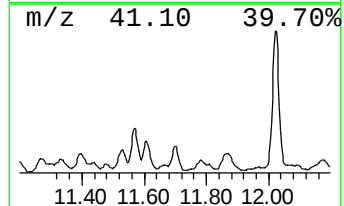
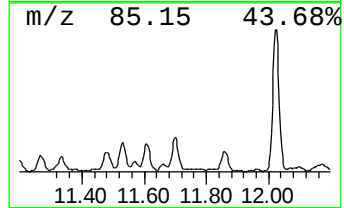
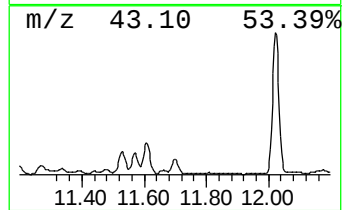
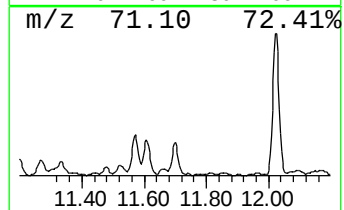
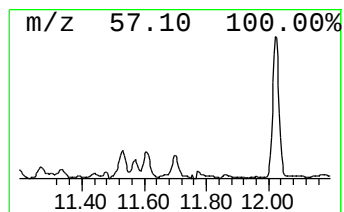
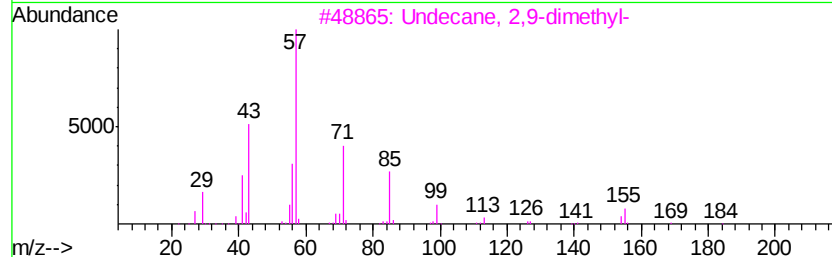
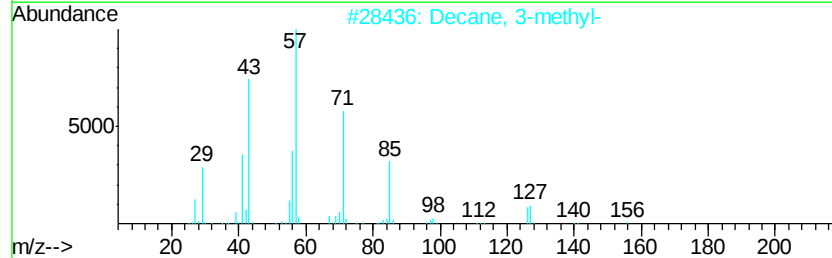
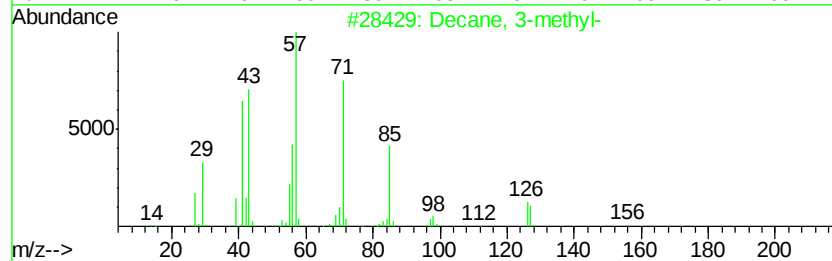
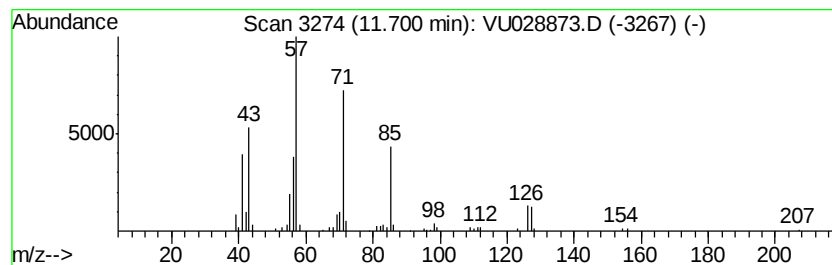
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 17 (DEL) Alkane: Straight-Chai... Concentration Rank 15

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 11.70 | 7.72 ug/L | 83880 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# | of | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------------|-----|---------|-------------|------|
| 1    | 5  | Decane, 3-methyl-           | 156 | C11H24  | 013151-34-3 | 94   |
| 2    |    | Decane, 3-methyl-           | 156 | C11H24  | 013151-34-3 | 83   |
| 3    |    | Undecane, 2,9-dimethyl-     | 184 | C13H28  | 017301-26-7 | 78   |
| 4    |    | Dodecane, 2,6,11-trimethyl- | 212 | C15H32  | 031295-56-4 | 59   |
| 5    |    | Undecane, 3-methyl-         | 170 | C12H26  | 001002-43-3 | 59   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU122118\  
Data File : VU028873.D  
Acq On : 21 Dec 2018 14:59  
Operator : MD/SY  
Sample : J6441-11DL 20X  
Misc : 5.90uL/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 15 Sample Multiplier: 1

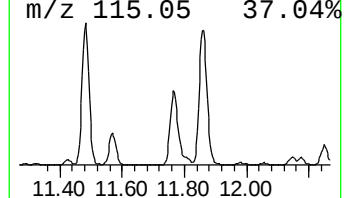
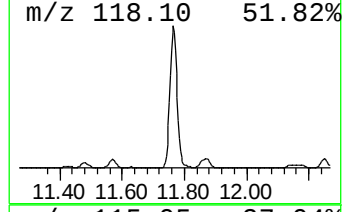
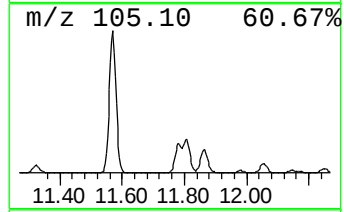
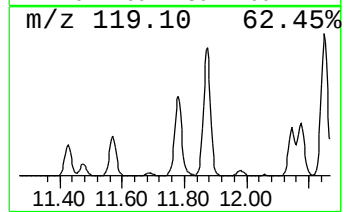
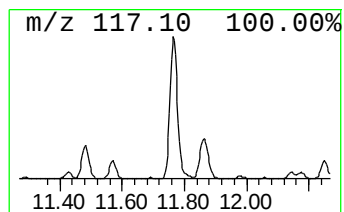
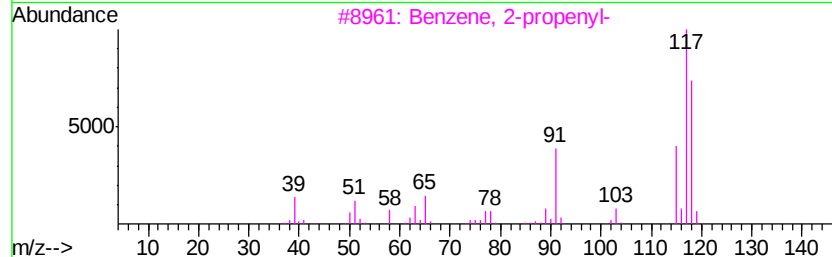
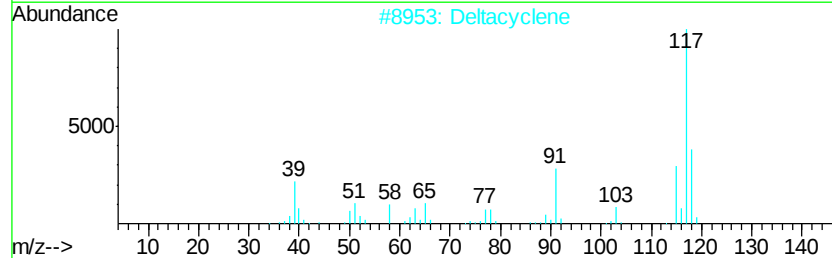
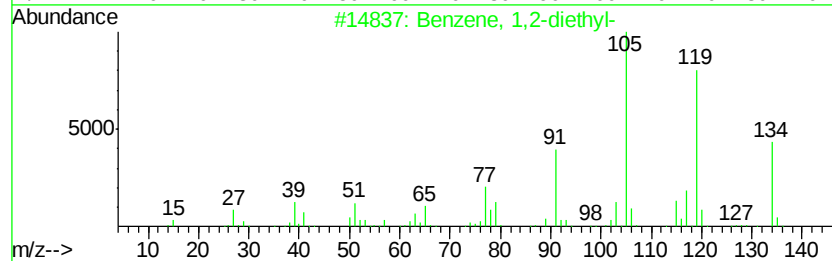
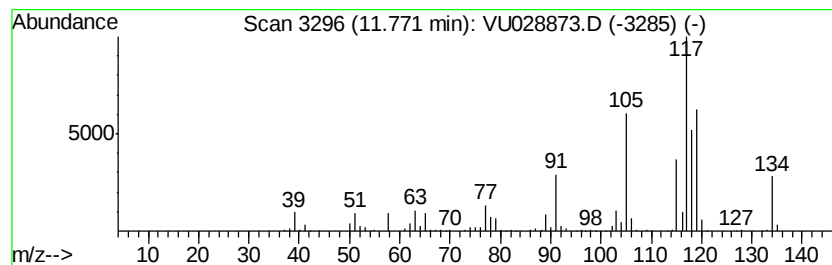
Instrument :  
MSVOA\_U  
ClientSampleId :  
BF024DL

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM122018WMA.M  
Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 18 Benzene, 1,2-diethyl- Concentration Rank 8

| R.T.      | EstConc               | Area   | Relative to ISTD       | R.T.        |      |
|-----------|-----------------------|--------|------------------------|-------------|------|
| 11.77     | 46.80 ug/L            | 508714 | 1,4-Dichlorobenzene-d4 | 11.48       |      |
| Hit# of 5 | Tentative ID          | MW     | MolForm                | CAS#        | Qual |
| 1         | Benzene, 1,2-diethyl- | 134    | C10H14                 | 000135-01-3 | 90   |
| 2         | Deltacyclene          | 118    | C9H10                  | 007785-10-6 | 83   |
| 3         | Benzene, 2-propenyl-  | 118    | C9H10                  | 000300-57-2 | 80   |
| 4         | Benzene, 2-propenyl-  | 118    | C9H10                  | 000300-57-2 | 80   |
| 5         | Benzene, 1,4-diethyl- | 134    | C10H14                 | 000105-05-5 | 70   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU122118\  
Data File : VU028873.D  
Acq On : 21 Dec 2018 14:59  
Operator : MD/SY  
Sample : J6441-11DL 20X  
Misc : 5.90uL/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
BF024DL

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM122018WMA.M  
Quant Title : VOC Analysis

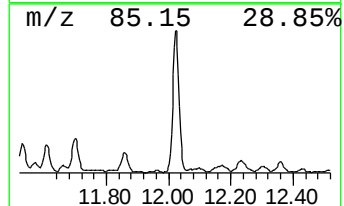
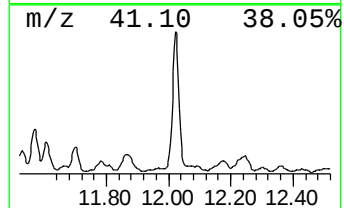
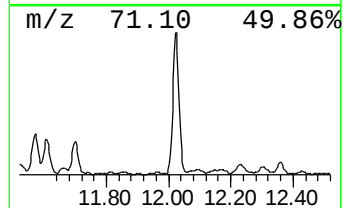
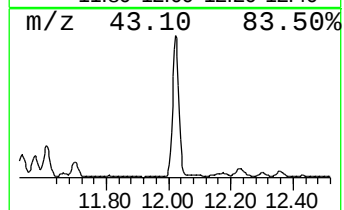
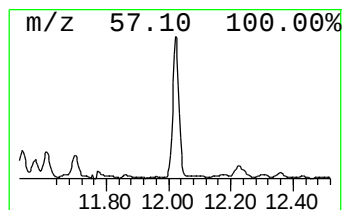
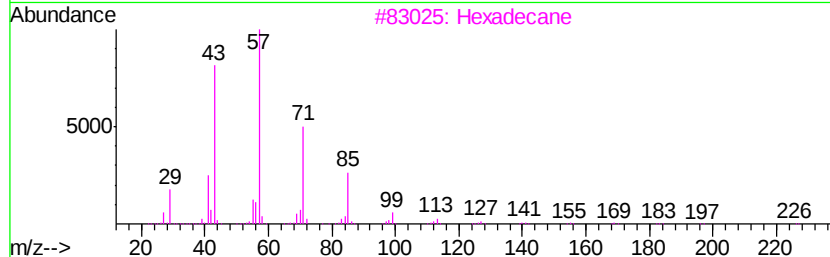
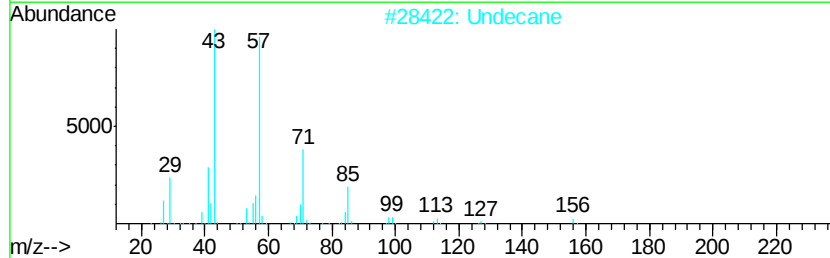
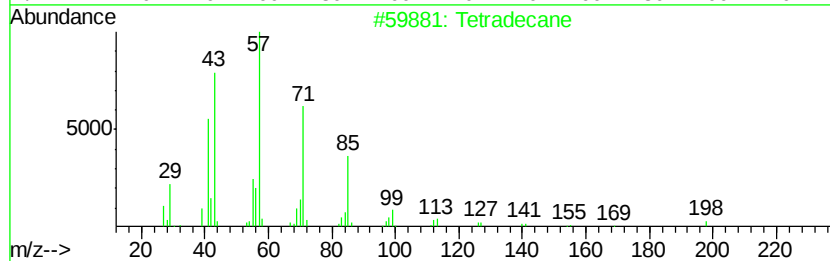
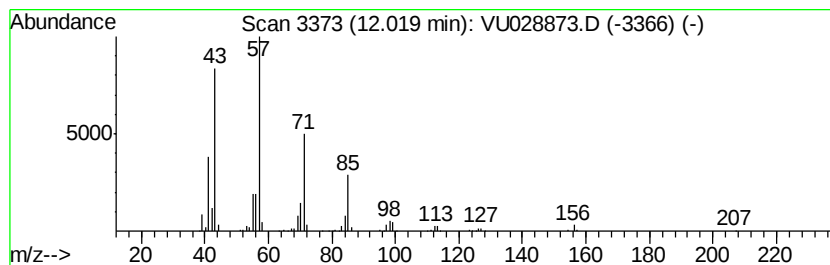
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 19 (DEL) Alkane: Straight-Chai... Concentration Rank 9

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 12.02 | 40.54 ug/L | 440660 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# | of | Tentative ID | MW  | MolForm | CAS#        | Qual |
|------|----|--------------|-----|---------|-------------|------|
| 1    | 5  | Tetradecane  | 198 | C14H30  | 000629-59-4 | 90   |
| 2    |    | Undecane     | 156 | C11H24  | 001120-21-4 | 87   |
| 3    |    | Hexadecane   | 226 | C16H34  | 000544-76-3 | 86   |
| 4    |    | Tridecane    | 184 | C13H28  | 000629-50-5 | 83   |
| 5    |    | Tetradecane  | 198 | C14H30  | 000629-59-4 | 83   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU122118\  
Data File : VU028873.D  
Acq On : 21 Dec 2018 14:59  
Operator : MD/SY  
Sample : J6441-11DL 20X  
Misc : 5.90µ/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
BF024DL

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM122018WMA.M  
Quant Title : VOC Analysis

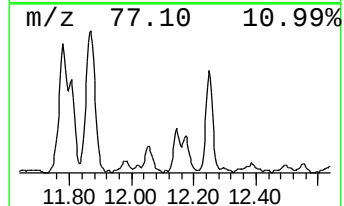
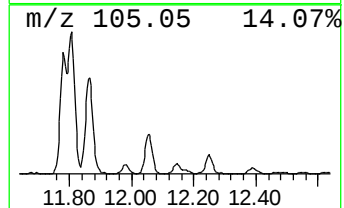
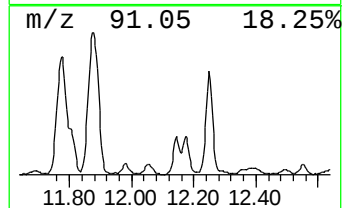
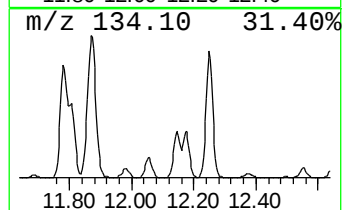
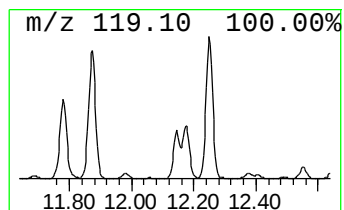
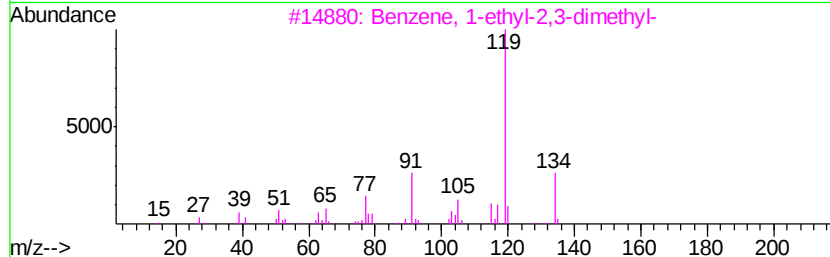
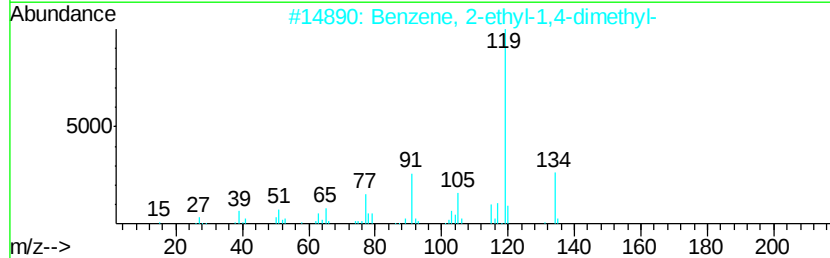
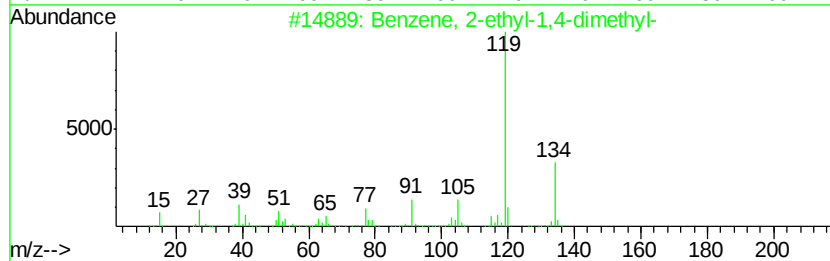
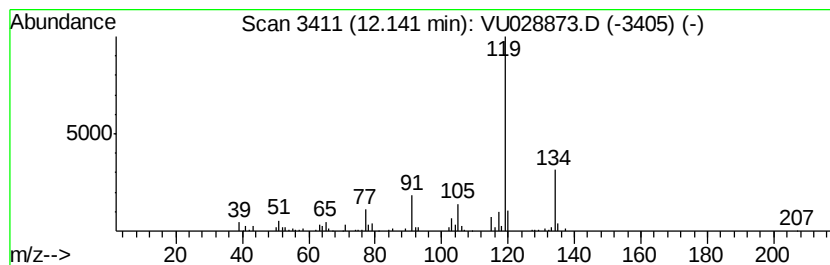
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 20 Benzene, 2-ethyl-1,4-dimethyl- Concentration Rank 14

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 12.14 | 8.24 ug/L | 89620 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# | of | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14  | 001758-88-9 | 97   |
| 2    |    | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14  | 001758-88-9 | 96   |
| 3    |    | Benzene, 1-ethyl-2,3-dimethyl- | 134 | C10H14  | 000933-98-2 | 95   |
| 4    |    | Benzene, 4-ethyl-1,2-dimethyl- | 134 | C10H14  | 000934-80-5 | 95   |
| 5    |    | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14  | 001758-88-9 | 95   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU122118\  
Data File : VU028873.D  
Acq On : 21 Dec 2018 14:59  
Operator : MD/SY  
Sample : J6441-11DL 20X  
Misc : 5.90a/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
BF024DL

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM122018WMA.M  
Quant Title : VOC Analysis

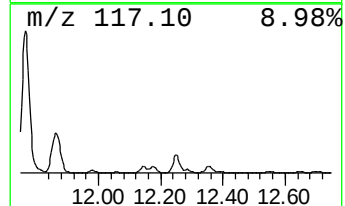
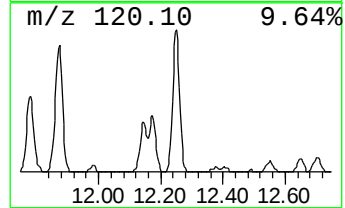
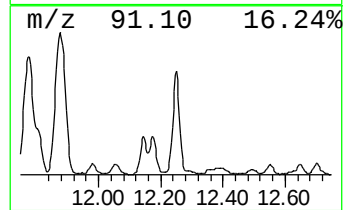
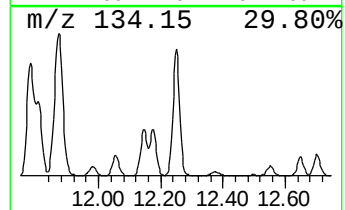
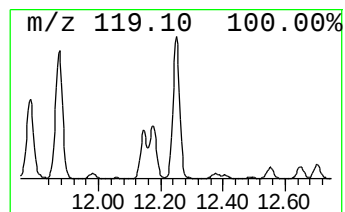
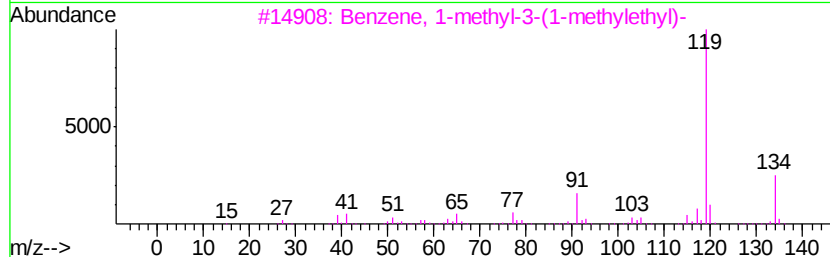
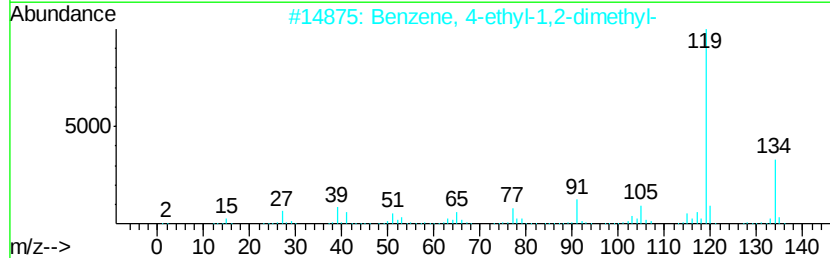
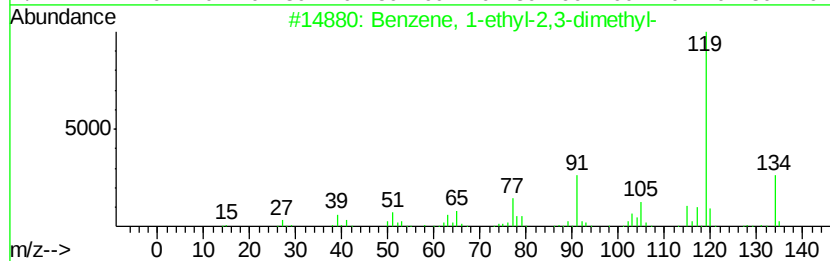
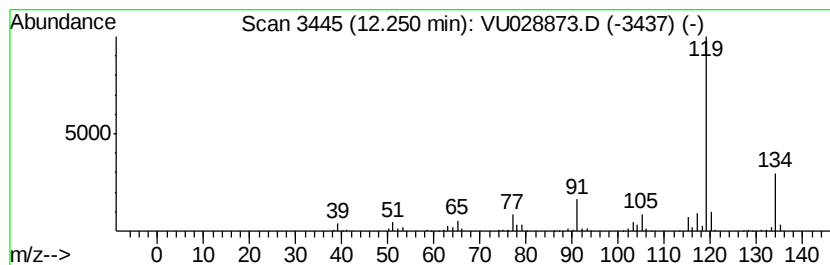
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 21 Benzene, 1-ethyl-2,3-dimethyl- Concentration Rank 10

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 12.25 | 25.83 ug/L | 280825 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# | of | Tentative ID                         | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1-ethyl-2,3-dimethyl-       | 134 | C10H14  | 000933-98-2 | 96   |
| 2    |    | Benzene, 4-ethyl-1,2-dimethyl-       | 134 | C10H14  | 000934-80-5 | 95   |
| 3    |    | Benzene, 1-methyl-3-(1-methylethyl)- | 134 | C10H14  | 000535-77-3 | 95   |
| 4    |    | o-Cymene                             | 134 | C10H14  | 000527-84-4 | 95   |
| 5    |    | Benzene, 1-ethyl-2,4-dimethyl-       | 134 | C10H14  | 000874-41-9 | 94   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU122118\  
Data File : VU028873.D  
Acq On : 21 Dec 2018 14:59  
Operator : MD/SY  
Sample : J6441-11DL 20X  
Misc : 5.90µ/5mL/100µL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
BF024DL

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM122018WMA.M  
Quant Title : VOC Analysis

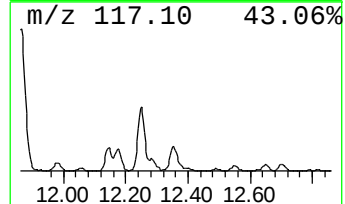
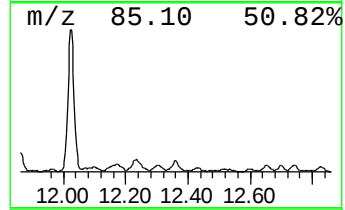
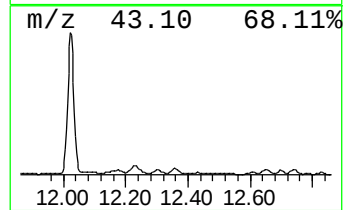
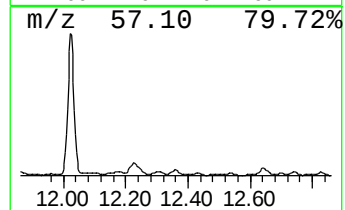
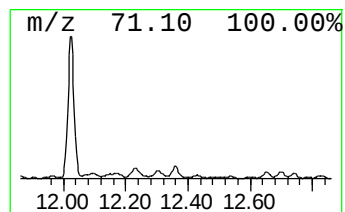
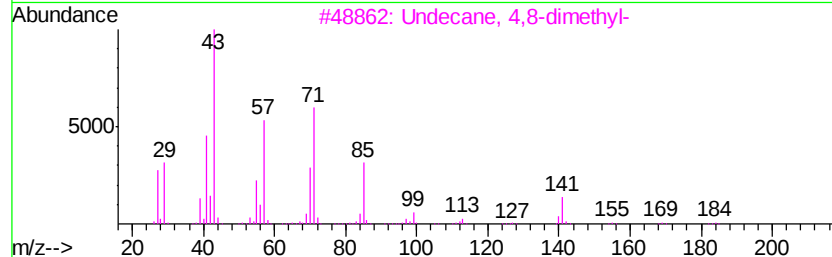
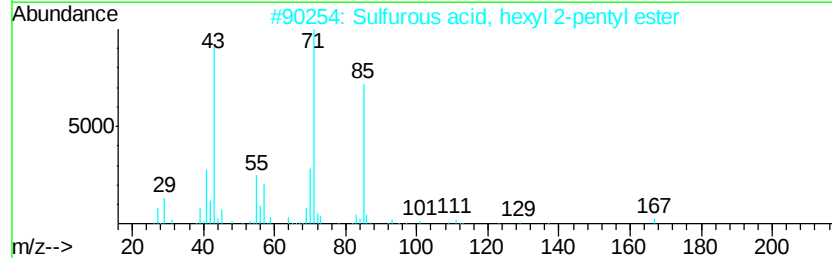
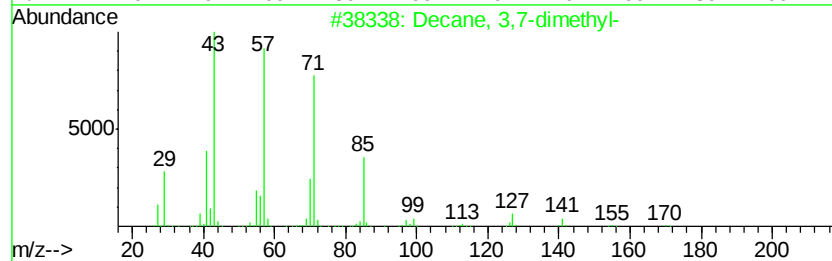
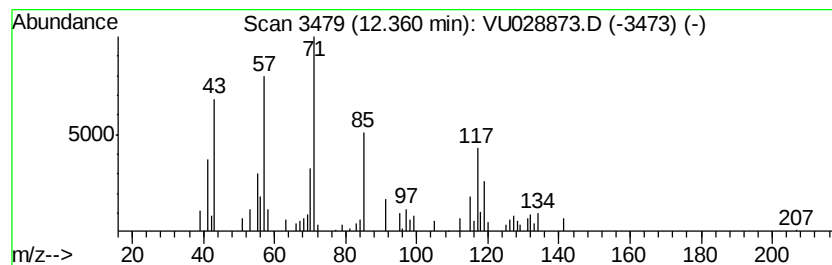
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 22 (DEL) Alkane: Straight-Chai... Concentration Rank 23

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 12.36 | 3.68 ug/L | 39969 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|-----------|--------------|------|
| 1    |    |   | Decane, 3,7-dimethyl-               | 170 | C12H26    | 017312-54-8  | 43   |
| 2    |    |   | Sulfurous acid, hexyl 2-pentyl e... | 236 | C11H24O3S | 1000309-15-6 | 43   |
| 3    |    |   | Undecane, 4,8-dimethyl-             | 184 | C13H28    | 017301-33-6  | 43   |
| 4    |    |   | Tridecane, 3-methyl-                | 198 | C14H30    | 006418-41-3  | 38   |
| 5    |    |   | Nonane, 5-butyl-                    | 184 | C13H28    | 017312-63-9  | 38   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU122118\  
Data File : VU028873.D  
Acq On : 21 Dec 2018 14:59  
Operator : MD/SY  
Sample : J6441-11DL 20X  
Misc : 5.90uL/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
BF024DL

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM122018WMA.M  
Quant Title : VOC Analysis

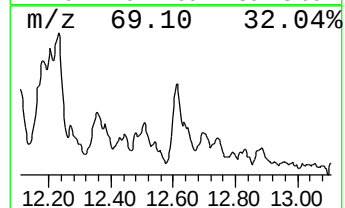
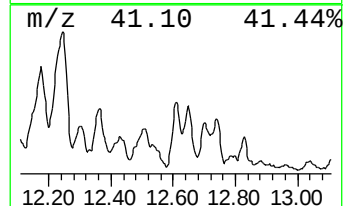
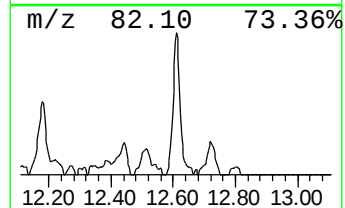
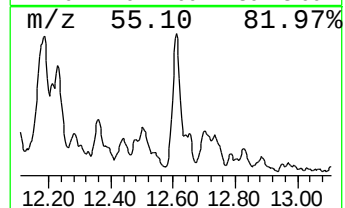
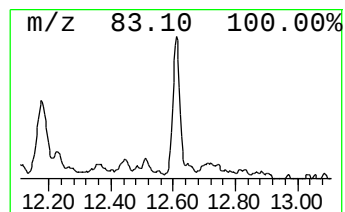
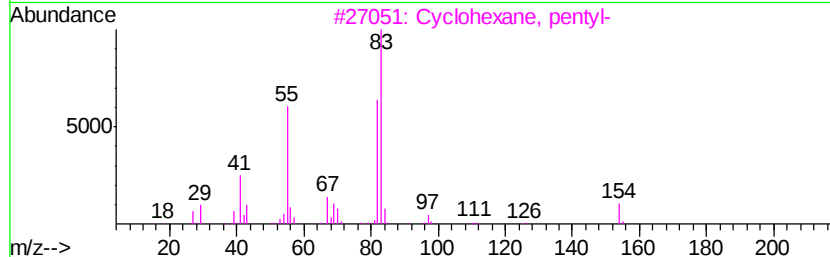
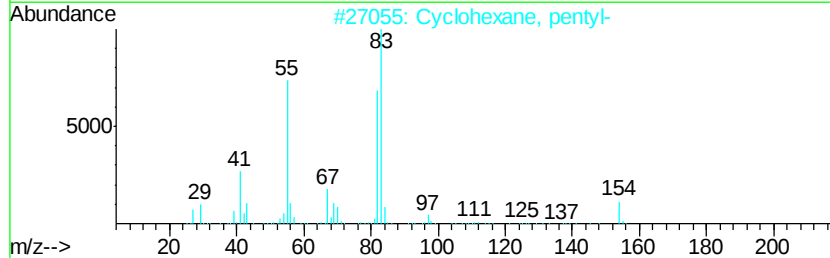
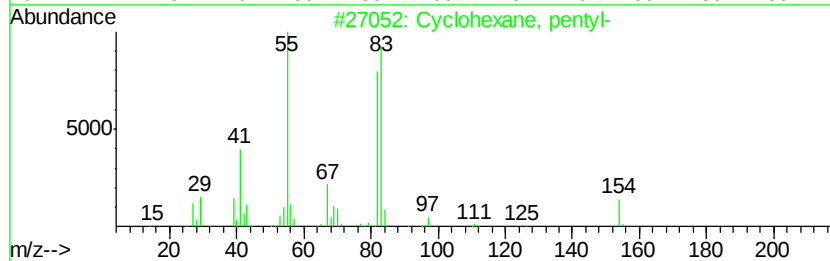
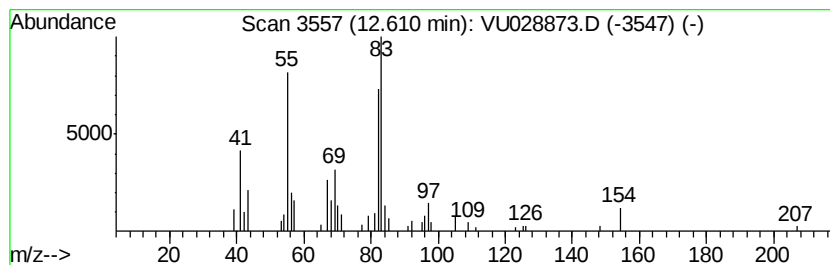
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 23 (DEL) Alkane: Cyclic12.61 Concentration Rank 22

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 12.61 | 3.70 ug/L | 40218 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# | of | 5 | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|---|--------------------------------|-----|---------|-------------|------|
| 1    |    |   | Cyclohexane, pentyl-           | 154 | C11H22  | 004292-92-6 | 87   |
| 2    |    |   | Cyclohexane, pentyl-           | 154 | C11H22  | 004292-92-6 | 80   |
| 3    |    |   | Cyclohexane, pentyl-           | 154 | C11H22  | 004292-92-6 | 80   |
| 4    |    |   | Cyclohexane, (4-methylpentyl)- | 168 | C12H24  | 061142-20-9 | 78   |
| 5    |    |   | Cyclohexane, (1-methylethyl)-  | 126 | C9H18   | 000696-29-7 | 74   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU122118\  
Data File : VU028873.D  
Acq On : 21 Dec 2018 14:59  
Operator : MD/SY  
Sample : J6441-11DL 20X  
Misc : 5.90uL/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
BF024DL

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM122018WMA.M  
Quant Title : VOC Analysis

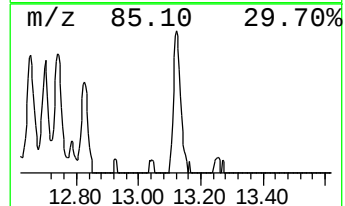
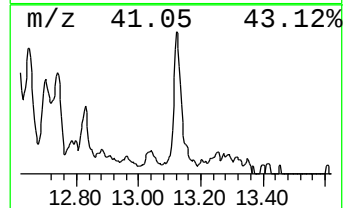
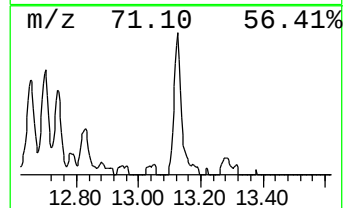
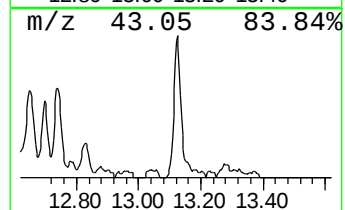
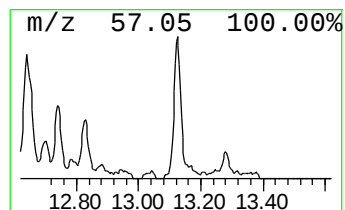
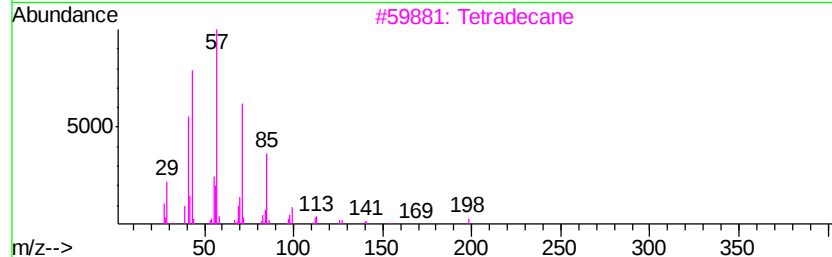
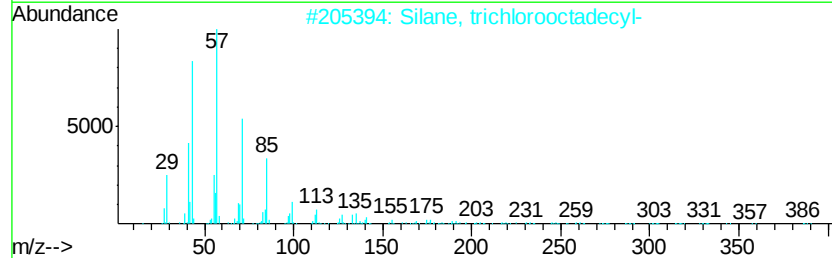
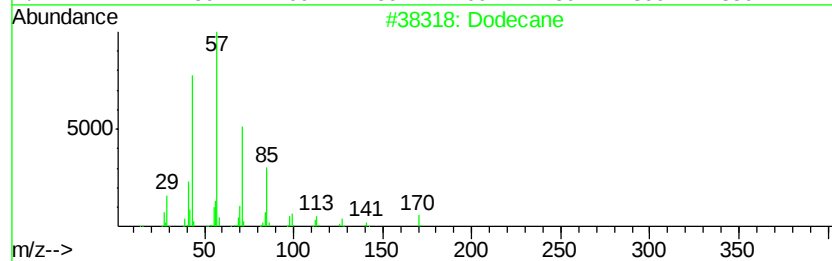
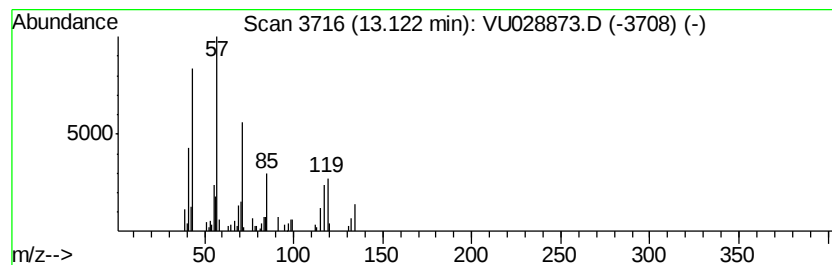
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 25 (DEL) Alkane: Straight-Chai... Concentration Rank 21

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 13.12 | 3.82 ug/L | 41500 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# | of | Tentative ID                | MW  | MolForm     | CAS#        | Qual |
|------|----|-----------------------------|-----|-------------|-------------|------|
| 1    | 5  | Dodecane                    | 170 | C12H26      | 000112-40-3 | 49   |
| 2    |    | Silane, trichlorooctadecyl- | 386 | C18H37Cl3Si | 000112-04-9 | 49   |
| 3    |    | Tetradecane                 | 198 | C14H30      | 000629-59-4 | 49   |
| 4    |    | Undecane                    | 156 | C11H24      | 001120-21-4 | 47   |
| 5    |    | Decane                      | 142 | C10H22      | 000124-18-5 | 47   |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_U\DATA\VU122118\  
 Data File : VU028873.D  
 Acq On : 21 Dec 2018 14:59  
 Operator : MD/SY  
 Sample : J6441-11DL 20X  
 Misc : 5.90g/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BF024DL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM122018WMA.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... | 8.91  | 2.5     | ug/L  | 28796    | 2                     | 9.09  | 565321 | 50.0 |
| (DEL) Alkane: Str... | 9.44  | 16.4    | ug/L  | 185625   | 2                     | 9.09  | 565321 | 50.0 |
| (DEL) Alkane: Cyc... | 9.72  | 7.6     | ug/L  | 85690    | 2                     | 9.09  | 565321 | 50.0 |
| (DEL) Alkane: Str... | 9.95  | 11.1    | ug/L  | 125638   | 2                     | 9.09  | 565321 | 50.0 |
| (DEL) Alkane: Cyc... | 10.04 | 7.2     | ug/L  | 80941    | 2                     | 9.09  | 565321 | 50.0 |
| (DEL) Alkane: Str... | 10.25 | 3.3     | ug/L  | 36853    | 2                     | 9.09  | 565321 | 50.0 |
| Benzene, propyl-     | 10.58 | 78.5    | ug/L  | 853670   | 3                     | 11.48 | 543544 | 50.0 |
| Benzene, 1-ethyl-... | 10.68 | 397.1   | ug/L  | 4316990  | 3                     | 11.48 | 543544 | 50.0 |
| Benzene, 1,2,3-tr... | 10.77 | 146.5   | ug/L  | 1592420  | 3                     | 11.48 | 543544 | 50.0 |
| (DEL) Alkane: Str... | 10.81 | 50.7    | ug/L  | 551305   | 3                     | 11.48 | 543544 | 50.0 |
| (DEL) Alkane: Str... | 11.27 | 4.3     | ug/L  | 47097    | 3                     | 11.48 | 543544 | 50.0 |
| (DEL) Alkane: Cyc... | 11.39 | 5.8     | ug/L  | 63546    | 3                     | 11.48 | 543544 | 50.0 |
| (DEL) Alkane: Str... | 11.70 | 7.7     | ug/L  | 83880    | 3                     | 11.48 | 543544 | 50.0 |
| Benzene, 1,2-diet... | 11.77 | 46.8    | ug/L  | 508714   | 3                     | 11.48 | 543544 | 50.0 |
| (DEL) Alkane: Str... | 12.02 | 40.5    | ug/L  | 440660   | 3                     | 11.48 | 543544 | 50.0 |
| Benzene, 2-ethyl-... | 12.14 | 8.2     | ug/L  | 89620    | 3                     | 11.48 | 543544 | 50.0 |
| Benzene, 1-ethyl-... | 12.25 | 25.8    | ug/L  | 280825   | 3                     | 11.48 | 543544 | 50.0 |
| (DEL) Alkane: Str... | 12.36 | 3.7     | ug/L  | 39969    | 3                     | 11.48 | 543544 | 50.0 |
| (DEL) Alkane: Cyc... | 12.61 | 3.7     | ug/L  | 40218    | 3                     | 11.48 | 543544 | 50.0 |
| (DEL) Alkane: Str... | 13.12 | 3.8     | ug/L  | 41500    | 3                     | 11.48 | 543544 | 50.0 |