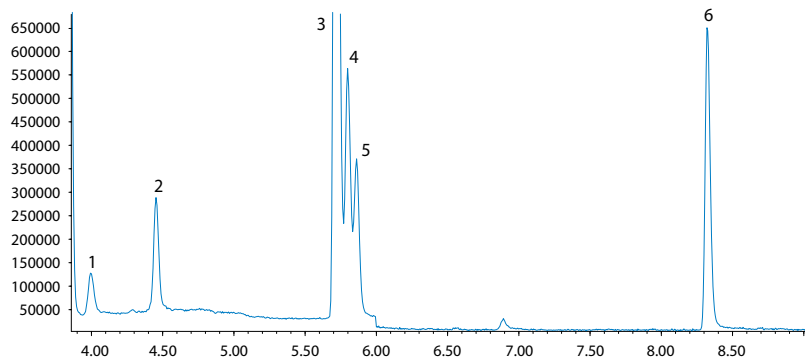


## Indoor Air Quality

## 2 PPBV MVOC Standard



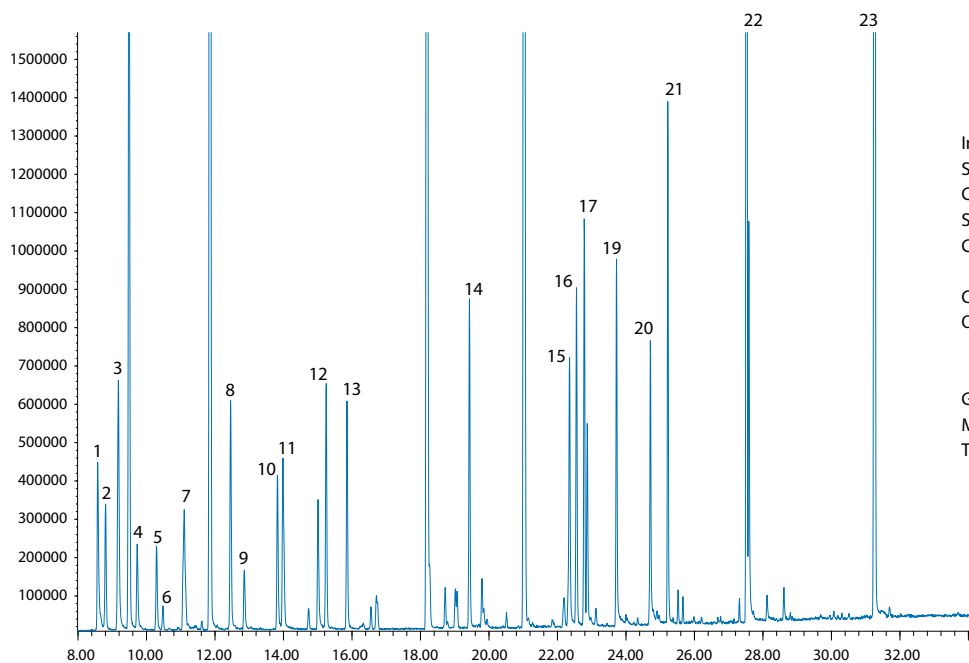
Inlet: 7100A/7032A (see pp 6,21)  
 Sample Size: 100cc  
 Matrix Management:  
 Coldtrap Dehydration  
 M1-Open, M2-Tenax  
 Column: HP1, 60m, 0.32mm ID, 1um film  
 Carrier: He, 1.5 ccm constant flow  
 Oven Temp:  
 35°C 5 min, 6°C/min to 150°,  
 15°C/min to 220°C, 4 min hold  
 GCMS: Agilent 5973  
 MS Operation: 33-270 amu, 3.1Hz,  
 EI, EM=0 Rel.  
 Tune: BFB

## Compounds: Carbonyl Standard

1. Formaldehyde	50 PPB	60 ng/l
2. Acetaldehyde	20 PPB	60 ng/l
3. Acetone-d6	100 PPB	261 ng/l
4. Acetone	20 PPB	47 ng/l
5. Propionaldehyde	20 PPB	47 ng/l
6. Methylethylketone (MEK - 2-Butanone)	20 PPB	59 ng/l

## Mold Analysis

## Indoor Air Sample from a Contaminated Home



Inlet: 7100A (see p.6)  
 Sample Size: 100cc  
 Concentration: 2ppbv  
 Split Mode: No split  
 Column:  
 DB-1, 60m, 0.32mm, 1um film.  
 Carrier: Helium  
 Oven Temp:  
 35°C 3min, 6°C/min to 120°C,  
 10°C/min to 220°C, 2 min hold  
 GC/MS: Agilent 6890/5973  
 MS Scan: 35-280 amu  
 Tune: BFB

## Calibration Results for MVOCs

Analyte	%RSD	Analyte	%RSD	Analyte	%RSD
1. 2-Methylfuran	6.78	9. 1,4-Dioxane	11.91	17. 2-Pentylfuran	12.77
2. 2-Butanone	7.65	10. 3-Methyl-1-butanol	10.33	18. 3-Octanol	13.18
3. 3-Methylfuran	6.86	11. 2-Methyl-1-butanol	7.09	19. 2-Ethyl-1-hexanol	30.70
4. 2-Methyl-1-propanol	5.76	12. 1-Pentanol	3.52	20. 1-Octanol	16.47
5. 2-Methyl-2-butanol	10.63	13. 2-Hexanone	5.35	21. 2-Isopropyl-3-methoxy-pyrazine	11.50
6. tert-Pentyl Alcohol	12.06	14. 2-Heptanone	10.99	22. 2-Methylisoborneol	14.99
7. 3-Methyl-2-butanol	9.29	15. 1-Octen-3-ol	20.55	23. Geosmin	16.68
8. 2-Pentanol	7.42	16. 3-Octanone	11.76		