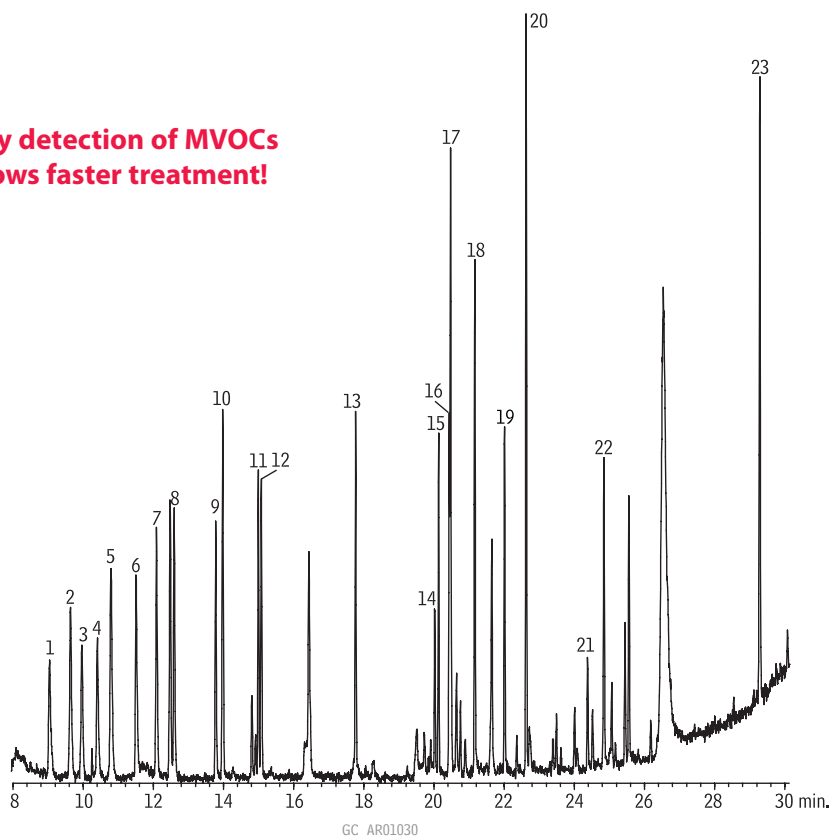


Microbial Volatile Organic Compounds (MVOCs)

Rxi®-1ms



Early detection of MVOCs
allows faster treatment!



Compound	Rt (min.)
1. 2-butanone	9.047
2. 2-methyl-furan	9.640
3. 3-methyl-furan	9.962
4. 2-methyl-1-propanol	10.405
5. 2-methyl-2-butanol	10.791
6. 1-butanol	11.506
7. 3-methyl-2-butanol	12.092
8. 2-pentanol	12.592
9. 2-methyl-1-butanol	13.779
10. dimethyl-disulfide	13.979
11. 3-hexanone	14.994
12. 2-hexanone	15.080
13. 2-heptanone	17.767
14. 1-octen-3-ol	20.019
15. 3-octanone	20.133
16. 3-octanol	20.433
17. 2-pentyl-furan	20.476
18. 2-ethyl-1-hexanol	21.163
19. 1-octanol	22.013
20. 2-isopropyl-3-methoxy-pyrazine	22.628
21. isoborneol	24.379
22. α-terpineol	24.844
23. geosmin	28.347

Column: Rxi®-1ms, 60m, 0.25mm ID, 1.00µm (cat.# 13356)
 Sample: Microbial volatile organic compounds, 2ppbv, 60% RH
 Inj.: 1.0µL split (split ratio 1:1),
 1mm split inlet liner (cat.# 20972)
 Inj. temp.: 200°C
 Carrier gas: helium, constant flow
 Flow rate: 1.5mL/min.
 Oven temp.: 10°C (hold 1 min.) to 235°C @ 8°C/min.
 Det: Agilent 6890/5973 GC/MS
 5 min. solvent delay
 Transfer line temp.: 260°C
 Scan range: 35 to 350amu
 Ionization: EI
 Mode: scan
 Other: Nutech 8900DS Preconcentrator
 Conditions:
 Sample = 200mL from canister
 Cryotrap1 = -160°C
 Desorb = 20°C
 Cryotrap2 = 20°C
 Desorb = 200°C
 Cryofocuser = 200°C
 Desorb = 200°C

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