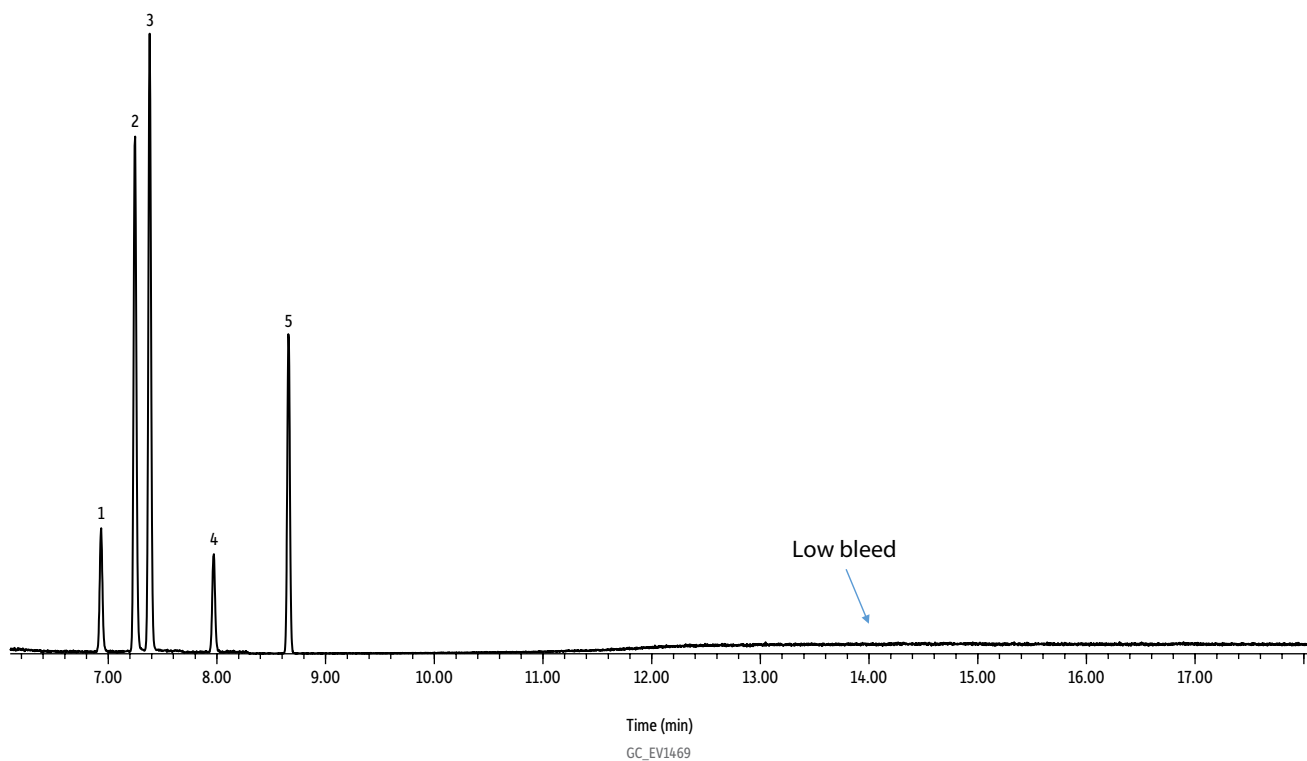


EPA Method 541 UCMR4 Standard at 10x the Method Reporting Limit on Stabilwax (SIM)



Peaks	t_R (min)	Conc. ($\mu\text{g/mL}$)
1. 2-Propen-1-ol	6.94	0.13
2. 1-Butanol-d10 (SS)	7.25	0.25
3. 1-Butanol	7.38	0.50
4. 2-Methoxyethanol	7.97	0.10
5. Chlorobenzene-d5 (IS)	8.66	0.25

Column Stabilwax, 30 m, 0.25 mm ID, 0.50 μm (cat.# 10638)
Sample Method 541 UCMR4 standard (cat.# 572263)
 Method 541 UCMR4 internal standard (cat.# 572268)
 Method 541 UCMR4 surrogate standard (cat.# 572267)
 Dichloromethane

Diluent:
Injection
 Inj. Vol.: 1 μL pulsed splitless (hold 0.50 min)
 Liner: Topaz 4 mm ID single taper inlet liner w/wool (cat.# 23303)
 Inj. Temp.: 200 $^{\circ}\text{C}$
 Pulse Pressure: 10 psi (68.9kPa)
 Pulse Time: 0.55 min
 Purge Flow: 100 mL/min

Oven
 Oven Temp.: 30 $^{\circ}\text{C}$ (hold 0.5 min) to 110 $^{\circ}\text{C}$ at 10 $^{\circ}\text{C}/\text{min}$ to 200 $^{\circ}\text{C}$ at 25 $^{\circ}\text{C}/\text{min}$ (hold 6 min)
Carrier Gas
 Carrier Gas: He, constant flow
 Flow Rate: 0.9 mL/min
Detector
 Mode: MS
 SIM Program: SIM

Group	Start Time (min)	Ion(s) (m/z)	Dwell (ms)
1	6.0	39, 55, 57, 58	25
2	7.2	41, 43, 46, 50, 55, 56, 63, 64	25
3	7.7	45, 47, 58, 76	25
4	8.3	76, 117, 119	25

Transfer Line Temp.: 200 $^{\circ}\text{C}$
 Analyzer Type: Quadrupole
 Source Type: Stainless Steel
 Drawout Plate: 6 mm ID
 Source Temp.: 230 $^{\circ}\text{C}$
 Quad Temp.: 150 $^{\circ}\text{C}$
 Solvent Delay Time: 6.0 min
 Tune Type: BFB
 Ionization Mode: EI
Instrument
 HP6890 GC & 5973 MSD

Notes
 The 30 m x 0.25 mm ID x 0.5 μm Stabilwax column offers equivalent selectivity to the ZB-Wax Plus chromatogram published in EPA Method 541, but with a significantly faster analysis time under the same GC conditions. Chlorobenzene elutes at 13.14 min in the method and at 8.66 minutes on the Stabilwax column.