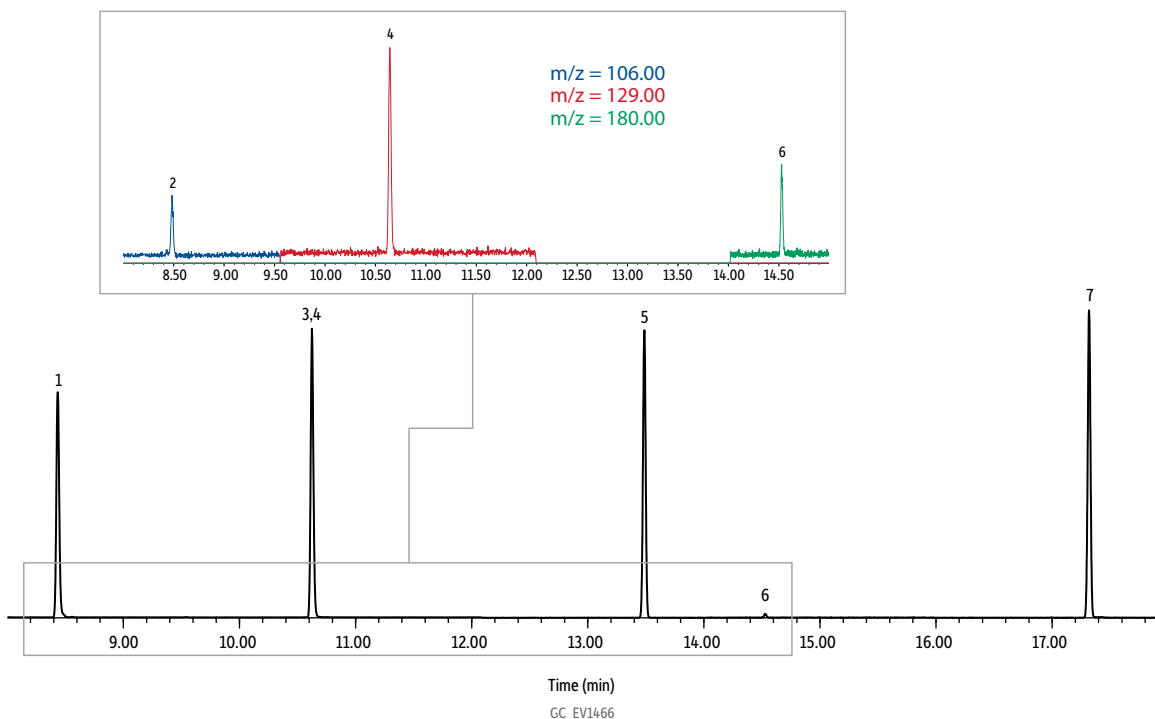


EPA Method 530 UCMR4 Standard at Method Reporting Limit on Rtx-1701 (SIM)



Peaks	t_R (min)	Conc. ($\mu\text{g/mL}$)
1. o-Toluidine-d9 (SS)	8.43	1.0
2. o-Toluidine	8.48	0.070
3. Quinoline-d7 (SS)	10.62	1.0
4. Quinoline	10.64	0.20
5. Acenaphthene-d10 (IS)	13.45	1.0
6. Butylated hydroxyanisole (BHA)	14.25	0.30
7. Phenanthrene-d10 (IS)	17.32	1.0

Column Rtx-1701, 30 m, 0.25 mm ID, 0.25 μm (cat.# 12023)
Sample Method 530 UCMR4 standard (cat.# 572262)
 Method 530 UCMR4 surrogate standard (cat.# 572265)
 Method 530 UCMR4 internal standard (cat.# 572266)
 Dichloromethane

Diluent:
Injection
 Inj. Vol.: 1 μL pulsed splitless (hold 1.0 min)
 Liner: Topaz 4 mm ID single taper w/wool (cat.# 23303)
 Inj. Temp.: 275 $^{\circ}\text{C}$
 Pulse Pressure: 20 psi (137.9kPa)
 Pulse Time: 1.05 min
 Purge Flow: 60 mL/min

Oven
 Oven Temp.: 60 $^{\circ}\text{C}$ (hold 1 min) to 290 $^{\circ}\text{C}$ at 10 $^{\circ}\text{C}/\text{min}$ (hold 1 min)

Carrier Gas
 He, constant flow

Flow Rate: 1.0 mL/min

Detector MS
 Mode: SIM

SIM Program:

Group	Start Time (min)	Ion(s) (m/z)	Dwell (ms)
1	3.50	106, 107, 112, 114	25
2	9.55	102, 108, 129, 136	25
3	12.08	162, 164	25
4	14.02	137, 180	25
5	15.92	160, 188	25

Transfer Line Temp.: 280 $^{\circ}\text{C}$
Analyzer Type: Quadrupole
Source Type: Stainless Steel
Drawout Plate: 6 mm ID
Source Temp.: 280 $^{\circ}\text{C}$
Quad Temp.: 180 $^{\circ}\text{C}$
Solvent Delay Time: 1.45 min
Tune Type: DFTPP
Ionization Mode: EI
Instrument HP6890 GC & 5973 MSD
Notes The EPA Method 530 UCMR4 standard analyte concentrations vary to simplify preparing ICAL levels based on the minimum method reporting levels.