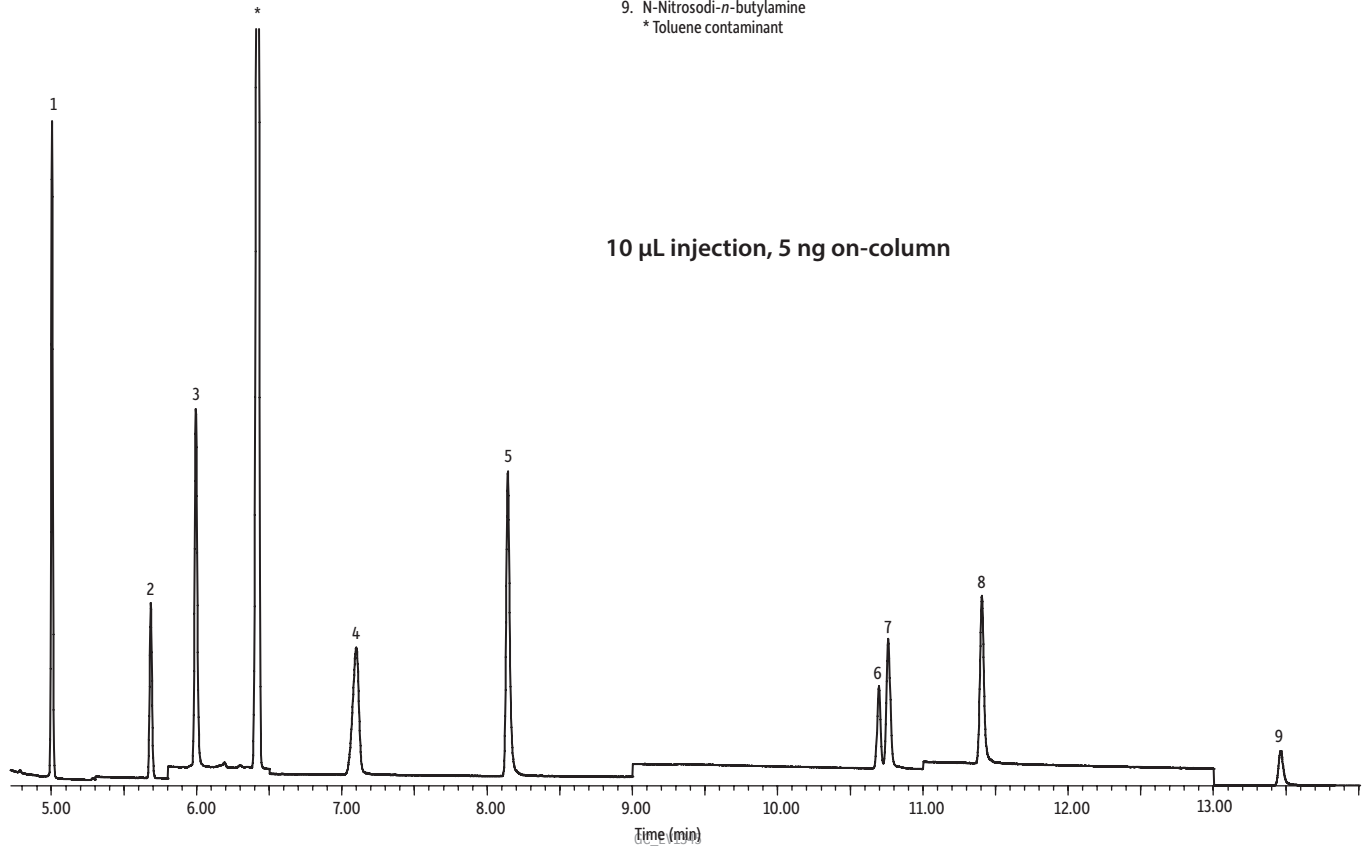


10 µL CSR-LVSI with 5 ng Nitrosamines, THF, and 1,4-Dioxane On-Column

- Peaks**
1. Tetrahydrofuran
 2. 1,4-Dioxane
 3. N-Nitrosodimethylamine
 4. N-Nitrosomethylethylamine
 5. N-Nitrosodiethylamine
 6. N-Nitrosopyrrolidine
 7. N-Nitrosodi-*n*-propylamine
 8. N-Nitrosopiperidine
 9. N-Nitrosodi-*n*-butylamine
 - * Toluene contaminant



Column Rxi®-5SiI MS, 30 m, 0.25 mm ID, 1.00 µm (cat.# 13653)
using Rxi® guard column 10 m, 0.53 mm ID (cat.# 10073)
with BGB P/N: 2553LD

Sample 1,4-Dioxane (cat.# 30287)
Nitrosamine calibration mix, Method 521 (cat.# 31898)
Tetrahydrofuran (THF) (cat.# 30414)

Diluent: Dichloromethane
Conc.: 0.5 µg/mL

Injection
Inj. Vol.: 10 µL splitless (hold 1.5 min)
Liner: Premium 4 mm single taper w/wool (cat.# 23303.5)
Inj. Temp.: 275 °C
Purge Flow: 100 mL/min

Oven
Oven Temp.: 35 °C (hold 1.5 min) to 50 °C at 50 °C/min (hold 2.02 min) to 320 °C at 11.12 °C/min (hold 1.5 min)

Carrier Gas He, constant flow
Flow Rate: 5.08 mL/min

Detector MS
Mode: SIM
SIM Program:

Group	Start Time (min)	Ion(s) (m/z)	Dwell (ms)
1	4.63	42, 46, 71, 72, 78, 80	40
2	5.3	58, 62, 64, 88, 96	40
3	5.8	42, 43, 46, 48, 74, 80	40
4	6.5	42, 44, 56, 88, 102	40
5	9	56, 68, 70, 78, 86, 100, 130, 144	25
6	11	55, 56, 84, 114	40
7	13	99, 116, 141, 158	40

Transfer Line Temp.: 320 °C
Analyzer Type: Quadrupole
Source Temp.: 230 °C
Quad Temp.: 150 °C
Solvent Delay
Time: 4.63 min
Tune Type: BFB
Ionization Mode: EI
Instrument Agilent 7890A GC & 5975C MSD