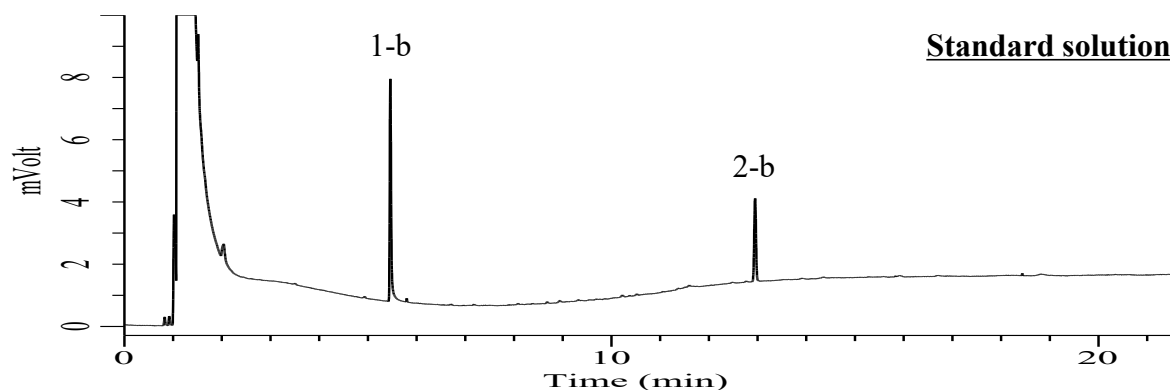
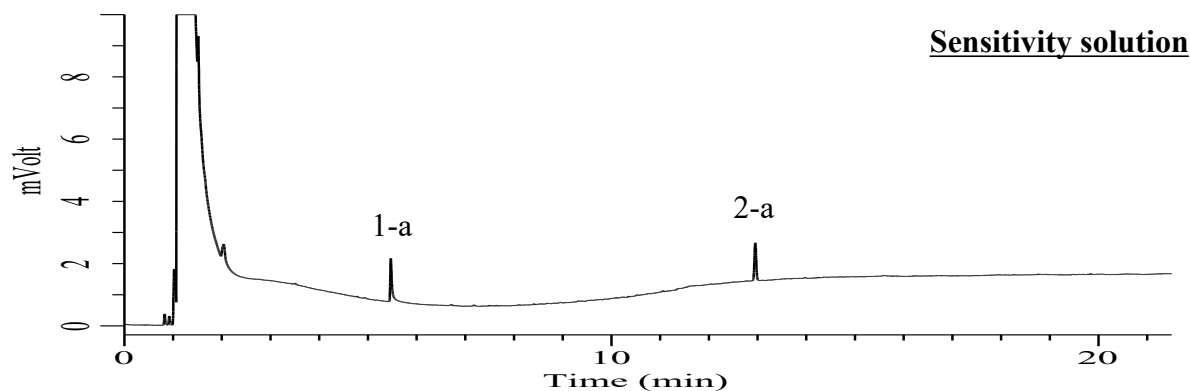


Analysis of Busulfan

(Under the Condition of the draft for USP PF52(2), Busulfan, IMPURITIES, Organic Impurities)



Conditions

System	: GC-4000 Plus system	Analyte :	
Column	: InertCap 5 (GL Sciences Inc.) 0.53 mm I.D. x 30 m ϕ = 1.5 μ m	1-a. 1,4-butanediol	2.4 μ g/mL
Column Cat. No.	: 1010-18446	1-b. 1,4-butanediol	7.2 μ g/mL
Column Temp.	: 50 °C (2 min) - 20 °C/min - 240 °C (10 min)	2-a. Busulfan	2.4 μ g/mL
Carrier Gas	: He 52 kPa , Constant Pressure	2-b. Busulfan	4.8 μ g/mL
Injection	: Split 22 mL/min 250 °C	Sol. in Acetonitrile	
Detection	: FID Auto Range 200 °C	RSD of the peak (1-b) area (%) (n=6) : 1.62 (\leq 10.0)	
Injection Vol.	: 1 μ L	RSD of the peak (2-b) area (%) (n=6) : 1.46 (\leq 10.0)	
Sample	: Sensitivity solution Standard solution	Signal-to-noise ratio (1-a) : 44 (\geq 10.0) (2-a) : 32 (\geq 10.0)	