

## Analysis of cyanide ion by ion chromatography with ECD

Cyanide ions (CN<sup>-</sup>) were analyzed using an electrochemical detector after separation by ion chromatography. Chromatogram of a standard sample is shown in Fig. 1.

**Keywords:** 1. Cyan ion(CN<sup>-</sup>), 2. STD, 3. Shodex IEC DEAE-825, 4. ECD

### Conditions:

Column: Shodex IEC DEAE-825  
 Eluent: 10mM Na<sub>2</sub>CO<sub>3</sub> + 1mM EDTA / CH<sub>3</sub>OH(90/10)  
 Detector: Shodex EC-1  
 Ag cell, 0mV SCE, polarity(+)  
 Flow rate: 1.0mL/min  
 Column temperature: 40 degree celsius  
 Injection volume: 10uL  
 Sample : STD (CN<sup>-</sup>; 0.01, 0.05, 0.1 ppm)

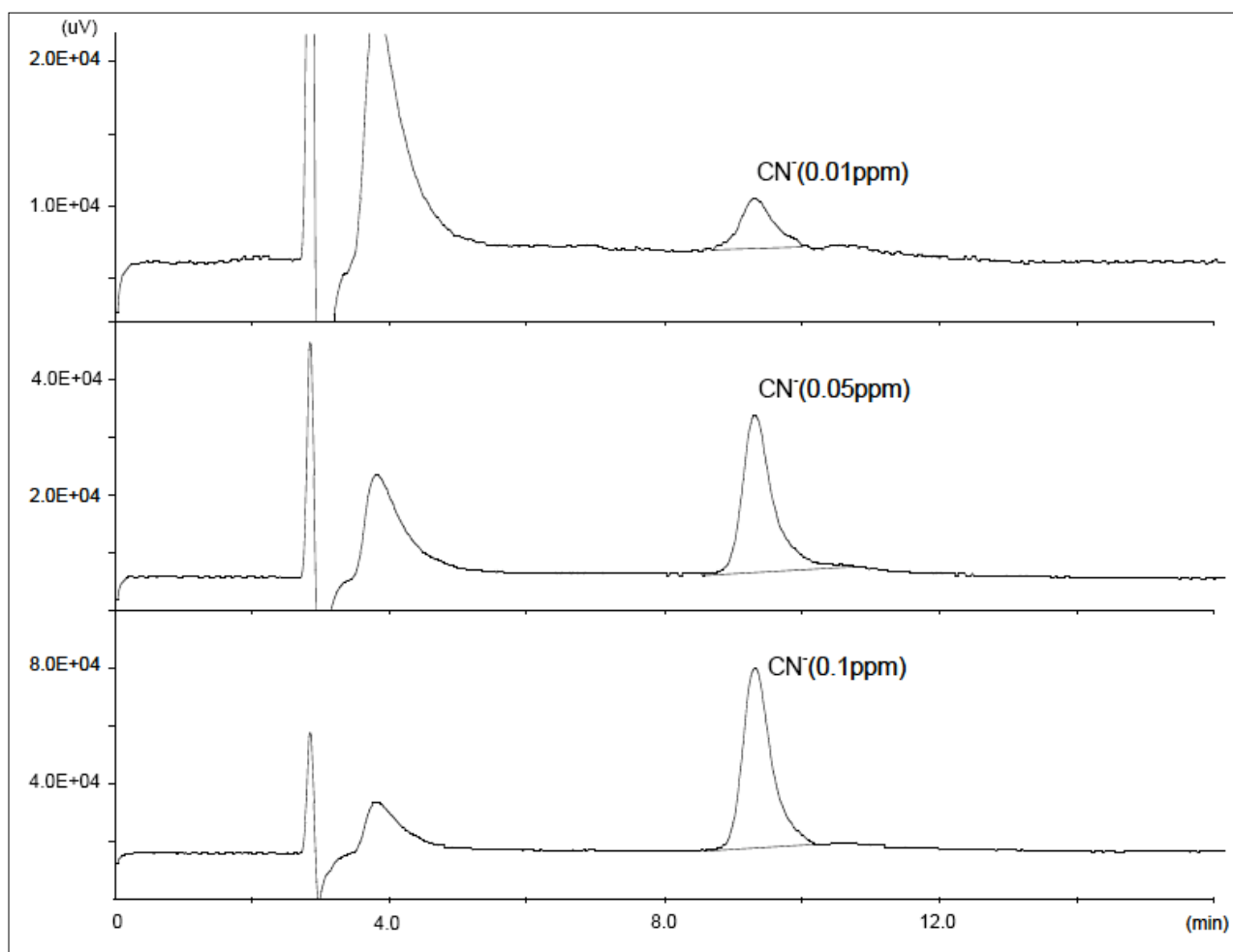


Fig. 1 cyanide standard sample chromatogram.