

Ion Detector
ID-210

**NEW
OPTION
for
AQF-2100H**



AQF-2100H + ID-210 = Combustion-Ion Chromatography

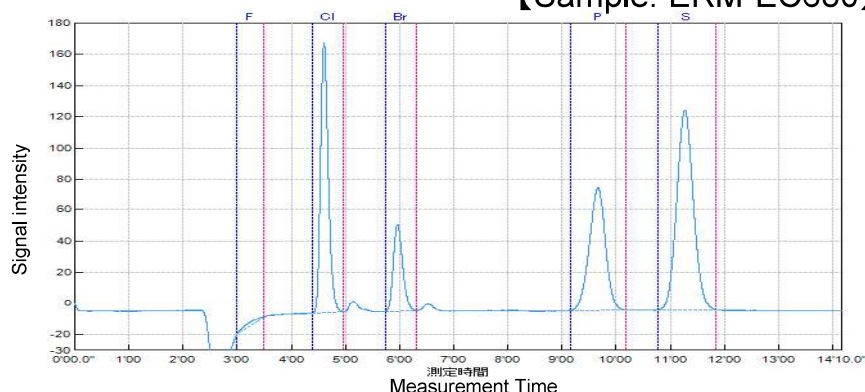
Advantages of Combustion-Ion Chromatography

- ◆ High level of automation
 - Avoid contamination and human error
- ◆ Accepts all forms of samples
 - Solid/Liquid/Gas, Organic/Inorganic, Powder, Fabric, etc.
- ◆ Not affected by matrix
 - Target elements are separated from matrix
- ◆ Short analysis time
 - No pre-treatment necessary

Nittoseiko Analytech

Application (organic sample)

【Sample: ERM-EC680】

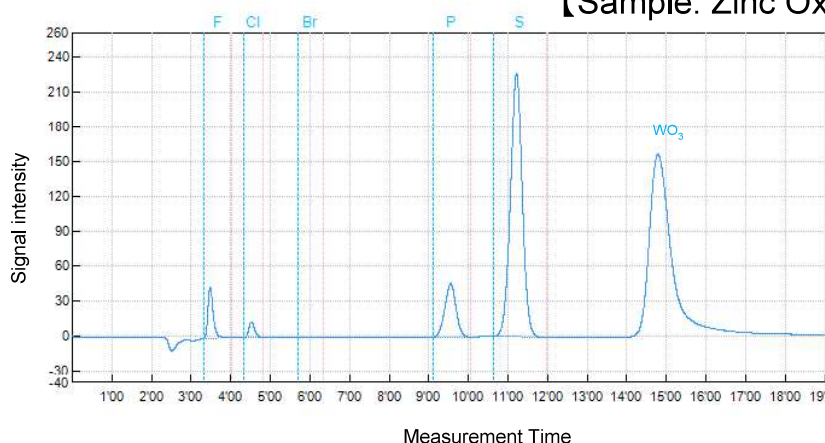


n=2	Cl (μ g/g)	Br (μ g/g)	S (μ g/g)
Average	103.4	100.6	78.9
RSD(%)	1.98	0.66	2.07
Certified	102 \pm 3	96 \pm 4	76 \pm 4

P: Internal standard

Application (inorganic sample with WQ (WO_4^{2-}))

【Sample: Zinc Oxide】



Rep.	Size (mg)	F(%)	Cl(%)	S(%)
1st	10.96	0.073	0.030	0.576
2nd	10.17	0.072	0.030	0.578
3rd	10.53	0.070	0.029	0.565
Average		0.072	0.030	0.573
RSD(%)		2.07	2.18	1.18

P: Internal standard

Specifications (AQF-2100H)

Sample introduction	Automated boat control
Sample	Solid, Liquid
Amount	1 - 150mg (solid), 5 - 100 μ l (liquid)
Sample pyrolysis	high purity quartz tube (ceramic option)
Combustion	Openable dual zone furnace, each zone temperature individually controlled, max.1100 $^{\circ}$ C
Gas	Argon (\geq 99.98%, 0.2 - 0.4MPa), Oxygen (\geq 99.7%, 0.2 - 0.4MPa)
Absorbent tube	10ml (20ml option)
Injection to IC	Loop 100 μ l (5, 20, 50, 200 μ l option)
Absorbent dispensing	5ml syringe pump
Tube material	Fluoro-resin, PEEK
Signal output	Contact signal to start Ion Chromatograph
Power	HF-210 100 - 240VAC, 50/60Hz, 1000VA
	GA-210 100 - 240VAC, 50/60Hz, 50VA
Dimension, Mass	HF-210 210(W) x 430(D) x 500(H) mm, 25kg
	GA-210 250(W) x 430(D) x 500(H) mm, 22kg

ID-210

Target Elements	Anions: F, Cl, Br, I, SO_4
Measuring range	Sample concentration: \geq 1ppm
Measuring time	10 - 40min / measurement
Power supply	100 - 240VAC, 50/60Hz, 250VA
Dimension, Mass	ID-210 190(W) x 469(D) x 530(H) mm, 18kg

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