

Analytical Instruments And Measurement Conditions

■ Microbalance and Ultra-Microbalance

(We analyze sample in one of the following three instruments.)

Microbalance

MX5 (METTLER TOLEDO CO.,Ltd.)

XP6 (METTLER TOLEDO CO.,Ltd.)

Ultra-Microbalance

XP2U (METTLER TOLEDO CO.,Ltd.)

■ Organic Elemental Analysis Instruments

-- Carbon,Hydrogen,Nitrogen --

(We analyze sample in one of the following three instruments.)

MICRO CORDER MT-5 (YANACO CO.,Ltd.)		
Standard temperature setting	Combustion furnace	950°C
	Oxidation furnace	850°C
	Reduction furnace	590°C
Carrir gas	Helium	200ml/min
	Oxygen	20ml/min

MICRO CORDER MT-6 (YANACO CO.,Ltd.)		
Standard temperature setting	Combustion furnace	950°C
	Oxidation furnace	850°C
	Reduction furnace	570°C
Carrir gas	Helium	200ml/min
	Oxygen	20ml/min

MICRO CORDER JM10 (J-SCIENCE LAB CO.,Ltd.)		
Standard temperature setting	Combustion furnace	950°C
	Oxidation furnace	850°C
	Reduction furnace	550°C
Carrir gas	Helium	200ml/min
	Oxygen	20ml/min

MICRO CORDER JM11 (J-SCIENCE LAB CO.,Ltd.)		
Standard temperature setting	Combustion furnace	1000°C
	Oxidation furnace	800°C
	Reduction furnace	650°C
Carrir gas	Helium	200ml/min
	Oxygen	15ml/min

-- Halogen and Sulfur --

AQF-2100H(ion chromatograph pre-treatment unit) (Mitsubishi Chemical Analytech Co.,Ltd.)		
Standard temperature setting	Furnace Inlet Temp.	1000°C
	Furnace Outlet Temp.	1050°C
Carrir gas	Argon	200ml/min
	Oxygen	400ml/min
	Humidified Argon Flow	150ml/min
Dionex ICS-1600 Ion Chromatography System (Thermo Fisher Scientific Inc.)		
IC Conditions	Columns	TSKgel SuperIC-Anion HS, 4.6×100mm
	Eluent Conc.	1.0mmol/L Na ₃ CO ₃
		9.0mmol/L NaHCO ₃
	Flow Rate	0.9mL/min
	Column Temp.	40°C
	Detection	Dionex AERS 500 suppressor, 22mA
Inj. Volume	20 μL	