

Our corporate slogan

Analysis is at the core of all developments made by modern civilization. Utilizing our state-of-the-art analytical technology, we will contribute to the creation of a bright future for both individuals and society as a whole

SCASS was founded in Singapore in 1997. SCASS's aims are to use the experience and knowledge it has built up since its beginnings to provide sophisticated analysis services and to deliver analysis outcomes that meet our clients' satisfaction.

SCASS is accredited under the Singapore Accreditation Council's Singapore Laboratory Accreditation Scheme (SAC-SINGLAS) to perform Chemical and Biological Analyses and analyses in the field of Environmental testing.

SCASS provides many different high-quality analysis services, including chemical raw material analysis, foreign matter analysis, VOC outgassing analysis, and cleanliness and contamination troubleshooting for HDD components.

General Chemical Raw Materials and Products

1. High-polymer material testing

[E.g.] Sheet edge color, volatile matter content, powder content, vicat softening point, reduced viscosity, melt flow index, bulk density, residual monomers

2. General chemical product analysis

[E.g.] Appearance, purity, color, specific gravity, acidity, distillation testing, water content, organic impurities, metallic impurities, inhibitor concentrations

- 3. Determination of organic and inorganic compounds
- 1) Composition analysis using GC and HPLC
- 2) Qualitative analysis using FT-IR and GC-MS 3) Foreign matter analysis using FT-IR, SEM-EDX and ICP-AES

Electronic Industrial and Electronic Components

1. Outgassing analysis using DHS/GC-MS

- 1) Organic compounds:
- [E.g.] Hydrocarbons, phthalic esters (DOP, DBP), acrylic esters
- 2) Silicon compounds (e.g. siloxane)

2. Ion chromatography (IC) analysis

- 1) Anions: [E.g.] F⁻, Cl⁻, Br⁻, NO₃⁻, PO₄³⁻, SO₄²⁻
- 2) Cations: [E.g.] Li⁺, Na⁺, K⁺, Mg²⁺, Ca²⁺, NH₄⁺

3. Evaluations of clean room supplies

[E.g.] Organic substances, siloxane, fine particles, talc.

Environment and Water Business

1. Wastewater analysis

- 1) Analysis for [e.g.] pH, color, COD_{cr}, BOD, SS, TDS, TOC, grease & oil, turbidity, conductivity
- 2) [E.g.] All metals, nitrogen, phosphorus, H₂S, cyanide, CI⁻, NO₃⁻, SO₄²⁻, PO₄³⁻, NH₄⁺
- 2. Water analysis
- 1) Measurement of monoamines in cooling water 2) Analysis of raw water and treated water
- cleanliness, and for concentrations of harmful substances
- 3. Testing of activated sludge: MLVSS and MLSS
- 4. Analysis of filter deposits

Affiliated SCAS Group Support

1. Evaluations of general chemical products, electronic industrial products, and devices

- 1) Structural analysis using e.g. NMR and microraman spectroscopy
- 2) Outgassing analysis using WTD-GC/MS
- 3) Surface analysis using e.g. AES, XPS, TOF-SIMS and EPMA
- 4) Chemical contamination analysis for e.g. clean rooms
- 2. Environmental evaluations
- 1) Environmental compliance evaluations (e.g. RoHs, REACH testing)
- 2) Analysis for evaluations of foods
- 3. Registration applications and hazard assessment New chemical substance applications (for e.g. REACH, and for all types of chemical products) for Asian ountries, China, Japan, Europe, USA, and so on
- 4. Instrument sales
- 1) Total carbon combustion instruments, and total nitrogen analyzers (SUMIGRAPH) 2) HPLC columns (SUMIPAX, SUMICHIRAL)

Contact us at:

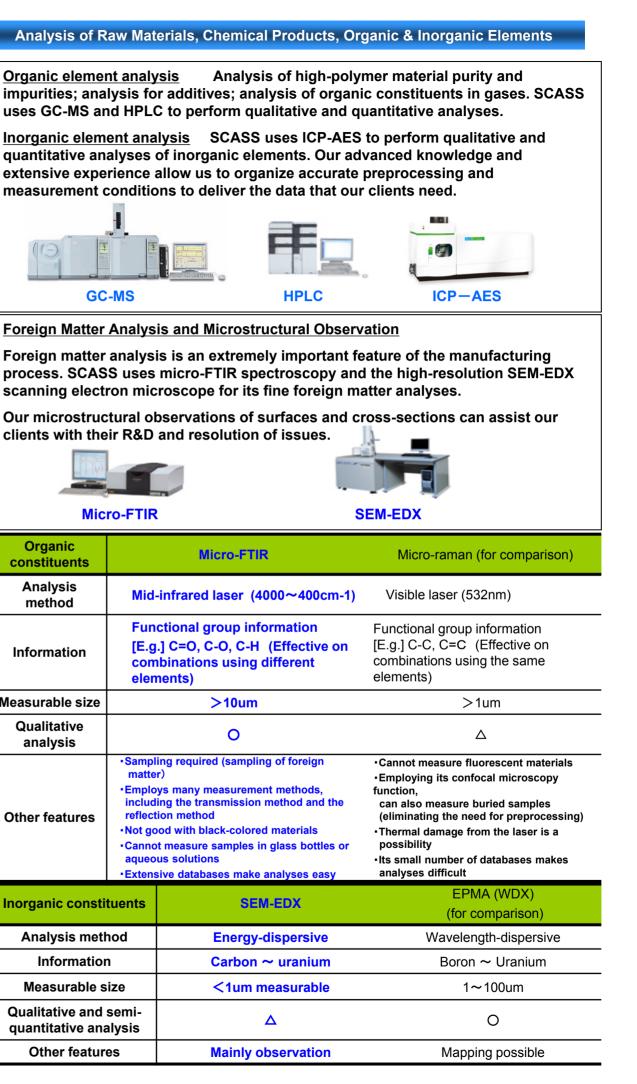
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Organic element analysis





Organic constituents		Micro-FTIR
Analysis method	Mid-infrared laser (400	
Information	Functional group inform [E.g.] C=O, C-O, C-H (E combinations using dif elements)	
Measurable size	>10um	
Qualitative analysis		0
Other features	 Sampling required (sampling of matter) Employs many measurement of including the transmission means reflection method Not good with black-colored measure samples in glaqueous solutions Extensive databases make and 	
Inorganic constituents		SEM-I
Analysis method		Energy-dis
Information		Carbon ~
Measurable size		<1um mea
Qualitative and semi- quantitative analysis		Δ
Other features		Mainly obs