

ANALYTICAL SOLUTIONS

FOR ENVIRONMENTAL APPLICATIONS



thermo
scientific

MARKES
international

WATER & WASTEWATER ANALYSIS

| Instrument | Testing Parameter | | | | | | | |
|------------------------------|-------------------|-------|------|------|---------------|------|--------------|--------------|
| | Pesticides | PPCPs | VOCs | PFAS | Dioxins /PAHs | DBPs | Heavy Metals | Microplastic |
| HRAM LC-MS and/or GC-MS | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ |
| GC, GC-MS, or GC-MS/MS | ✓ | | ✓ | | ✓ | ✓ | | ✓ |
| HPLC, LC-MS or LC-MS/MS | ✓ | ✓ | | ✓ | | | | |
| IC or IC-MS | ✓ | | | | | ✓ | | |
| AAS, ICP-OES, or ICP-MS | | | | | | | ✓ | |
| Automated sample preparation | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| Automated water analysis | | | | | | | ✓ | |

PPCPs: Pharmaceuticals and personal care products
 PFAS: Polyfluoroalkyl substances
 DBPs: Disinfecting by-products

VOCs: Volatile Organic Compounds
 PAHs: Polycyclic Aromatic Hydrocarbons

Automated water analysis

Multi-parameter testing for routine high-throughput water analysis

- pH
- Conductivity
- Alkalinity
- Ammonia
- Calcium
- Chloride
- Chromium (VI)
- Fluoride
- Ferrous Iron
- Magnesium
- Nitrate
- Nitrite
- Phosphate
- Silica
- Sulfate
- Total hardness
- Total Oxidized Nitrogen (TON)
- Total Kjeldahl Nitrogen (TKN)
- Urea



ASE350



Gallery Plus



AutoTrace280



LCTech FREESTYLE

Automated sample preparations

Get better solution for your sample preparation

SOIL ANALYSIS

| Instrument | Testing Parameter | | | | | | |
|--------------------------|-------------------|------|------|---------------|-------|--------------|--------------|
| | Pesticides | VOCs | PFAS | Dioxins /PAHs | CHNSO | Heavy Metals | Microplastic |
| LC-MS and/or GC-MS | ✓ | ✓ | | ✓ | | | ✓ |
| GC, GC-MS, or GC-MS/MS | ✓ | ✓ | | ✓ | | | ✓ |
| HPLC, LC-MS or LC-MS/MS | ✓ | | ✓ | | | | |
| IC or IC-MS | ✓ | | | | | | |
| AAS, ICP-OES, or ICP-MS | | | | | | ✓ | |
| OEA | | | | | ✓ | | |
| Automated water analysis | ✓ | ✓ | ✓ | ✓ | | | |

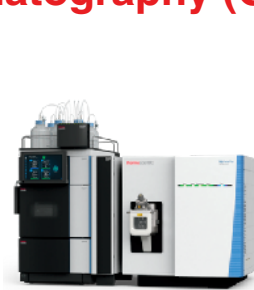
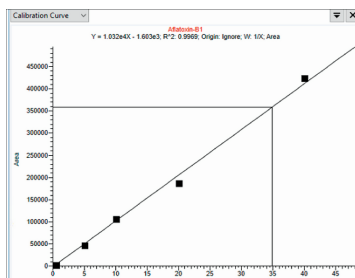
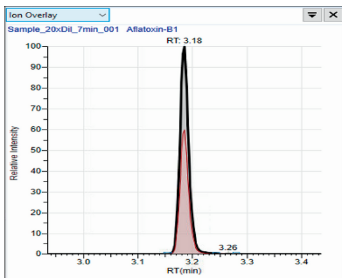
VOCs: Volatile Organic Compounds

PFAS: Polyfluoroalkyl substances

PAHs: Polycyclic Aromatic Hydrocarbons

Liquid Chromatography (LC) & Gas Chromatography (GC)

Non-volatile & Volatile compounds detection



TSQ Plus Series LC-MS/MS



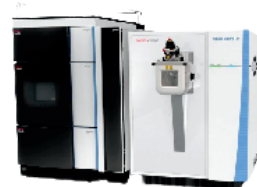
ISQ/TSQ Series GC-MS

Organic Elemental Analyzer (OEA)

Performing carbon, hydrogen, nitrogen, sulfur and oxygen (CHNS/O) analyses



FlashSmar Elemental Analyzer



High Resolution Accurate Mass (HRAM) LC-MS and/or GC-MS



AIR MONITORING ANALYSIS

| Instrument | Testing Parameter | |
|-------------------------|-------------------|--------------|
| | VOCs | Heavy Metals |
| HRAM-GC-MS | ✓ | |
| GC, GC-MS, or GC-MS/MS | ✓ | |
| AAS, ICP-OES, or ICP-MS | | ✓ |
| Thermal Desorption (TD) | ✓ | |

VOCs: Volatile Organic Compounds

Inductively Coupled Plasma Mass Spectrometry (ICP-MS)

Trace Elemental Analysis with Maximized productivity and robustness



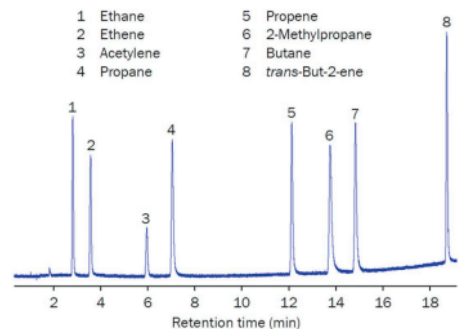
ICAP RQ ICP-MS



TD100-XR

Thermal Desorption

Versatile preconcentration technique for analysis of volatile and semi-volatile organic compounds



บริษัท ชายน สเปค จำกัด

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