Industrial Hygiene / IAQ Analysis (Air Samples)

Test Catalogue & Fee Schedule (USD)

February 2020

Clear Water Bay,
Kowloon, Hong Kong

Tel: (852) 2358 6546
Fax: (852) 2335 1253
Website: https://hseo.ust.hk/hseo-lab

Contact: Ms Susanne Leung E-mail: lpleung@ust.hk Tel: (852) 2358 6542
Ms Wai-Ping Leung E-mail: lwp@ust.hk Tel: (852) 2358 7230
QUALIFICATIONS AND ACCREDITATIONS

Health, Safety and Environment Office (HSEO) Laboratory has received accreditation by the American Industrial Hygiene Association (AIHA) since 1996. The following qualifying criteria currently apply to the laboratory:

- AIHA Accreditation (Laboratory # 102243)
  The AIHA Laboratory Accreditation Programs (AIHA-LAP, LLC)

- Scope of Accreditation:
  - Chromatography Core
    Gas Chromatography (GC/FID)
    Gas Chromatography Mass Selective Detector (GC/MSD)
    High Performance Liquid Chromatography (HPLC/UV)
    Ion Chromatography (IC)
  - Spectrometry Core
    Inductively Coupled Plasma Optical Emission Spectroscopy (ICP/OES)
    Inductively Coupled Plasma Mass Spectroscopy (ICP/MS)
  - Miscellaneous Core
    Gravimetric

- Proficiency Testing (PT) Participation in:
  - AIHA Industrial Hygiene Proficiency Analytical Testing Programs (IHPAT)
    Metals, Organic solvents and 3M Diffusive sampler
  - LGC Air & Stack Emissions Scheme (AIR PT) Scheme
    Formaldehyde, Gravimetric

TERMS & CONDITIONS

1. GENERAL

- The Fee Schedule lists prices for the most frequently requested Industrial Hygiene analyses performed by HSEO Lab. Please contact HSEO Lab for additional information on analyses not listed or other technical inquiries.

- Please note that certain types of analyses require a 3-sample minimum charge; this is to cover costs for method set up. Please contact us if you require additional information.

- Upon request HSEO Lab will supply (at cost plus shipping and handling charges) sampling media. All media is subject to availability and may require a minimum order. Unused sampling media cannot be returned for credit.

- The listed fees are subject to change without notice.

- HSEO Lab will retain residual sample as stated in the laboratory policy, after which the residual sample will be properly disposed of, unless a written agreement directing HSEO Lab otherwise has been established.
2. **Analytical Service Orders**

- Requests for analytical services may be made by telephone, facsimile, e-mail, or in writing. The customer’s authorized representative must confirm all requests for services in writing.
- Quotations are available, upon request, on a project or by job basis. All quotations are valid for a period of three months from the day of issue unless otherwise specified.
- HSEO Lab reserves the right to refuse to proceed with an analytical request if the customer fails to provide an acceptable written analysis request or to establish acceptable credit arrangements.
- Each field blank or field QC sample will be charged as a regular sample. Customers will not be charged for laboratory QC samples.
- The customer is required to submit a minimum of one field blank for each type of analysis requested in a given batch of samples. One use of a field blank is to detect potential contamination that may occur to your samples during shipment. Blanks are charged at applicable analytical fees.

3. **Sample Receipt and Processing**

- The customer is responsible for the condition and custody of all samples prior to receipt, inspection, and acceptance by HSEO Lab.
- HSEO Lab will use analytical methodologies which have been certified as compliant with requirements published or specified by USEPA, NIOSH, OSHA, or other regulatory agencies. HSEO Lab reserves the right to interpret these methodologies when applying them to the analysis of customer’s samples based on reasonable, professional judgment of HSEO Lab personnel and recognized standards of the industry.
- Industrial hygiene sample sets received by HSEO Lab may require the submittal of field blanks for compliance with NIOSH, OSHA and USEPA methodologies.
- HSEO Lab will employ a comprehensive Quality Assurance/Quality Control (QA/QC) program covering both sample preparation and analysis. This program includes: instrument calibration, the analysis of spiked samples, quality control samples, laboratory blanks, replicate analyses, comparison of QA/QC data with accepted limits, and monitoring of instrument performance.
- HSEO Lab performs Practical Quantitation Limits (PQL) studies annually. Projects in progress are subject to the most current PQL results.
- HSEO Lab uses QA/QC procedures which are consistent with current industry standards. It is the customer’s responsibility to determine if the procedures meet the QA/QC requirement of his/her need.
- HSEO Lab reserves the right to refuse to proceed with the processing of any samples which is noncompliant with QA requirements of a requested regulatory analytical procedure. In such an event, the customer shall reimburse HSEO Lab any costs incurred prior to the analytical work halt.
- Should the QA/QC requirements of a requested regulatory method or procedure specify that a sample must be reanalyzed; any additional sample required for the reanalysis will be provided by the customer at the customer’s expense. Any mandated or requested QA/QC reanalysis, which generates data consistent with original results, will be at the customer’s expense.

4. **Turnaround Time**

- Regular turnaround time is 20 working days, at the listed price.
- Express service of 5 working days carries a surcharge of 100%. Prior notification to confirm express service capacity is required by HSEO Lab.
- Please note that the working day after the sample receipt day is considered as day 1. Sample backlog, or size and diversity of incoming batches may affect turnaround time. The laboratory will inform customers when these conditions occur, and will treat samples on a first come, first served basis.
5. **VOLUME DISCOUNT**

- Batch discounts (the number of samples for the sample analyte, on the same matrix, and submitted at the same time) are applied as noted below.

<table>
<thead>
<tr>
<th>Batch size (Single Submittal)</th>
<th>% Discount</th>
</tr>
</thead>
<tbody>
<tr>
<td>≥ 10</td>
<td>5%</td>
</tr>
<tr>
<td>≥ 20</td>
<td>10%</td>
</tr>
<tr>
<td>≥ 30</td>
<td>15%</td>
</tr>
</tbody>
</table>

- Additional discount can be negotiated for long term or higher sample volume projects.

6. **ANALYTICAL RESULTS**

- All results are provided for the exclusive use of the customer. HSEOB Lab accepts no responsibility or liability for the customer’s use of such results.

- HSEOB Lab will protect all data, information and proprietary rights. Under no circumstances shall the test reports and other data be made known to any third party without permission of the Laboratory Manager and the customer’s authorization.

- When requested, HSEOB Lab may release verbal, fax, email (.pdf) results in advance of written report of results. Such results are tentative and are subject to subsequent confirmation or modification during standard QA/QC review procedures.

- HSEOB Lab will retain support documentation such as reports and raw data for analytical results for four years.

7. **SERVICE OUTSIDE THE SCOPE OF WORK**

- In the event the customer requests HSEOB Lab to perform extraordinary services which are not included in the scope of work to which the parties agreed, HSEOB reserves the right to invoice for the services performed at extra rate. Extraordinary services include, but are not limited to, the following:
  1. Correcting customer errors.
  2. Request for information or data not required by the scope of work.
  3. Modification to deliverables not required by the scope of work.

  HSEOB Lab shall not proceed with extraordinary services until receiving written authorization from the customer.

8. **PAYMENT AND TERMS**

- HSEOB Lab requires payment for analytical services prior to sample analysis, unless other payment terms have been established.

- Payment is due thirty (30) days from HSEOB Lab’s invoice date. HSEOB may change credit or payment terms at any time should customer’s financial condition or previous payment record so warrant.

- HSEOB Lab may discontinue service if customer fails to pay any sum due.
## INDUSTRIAL HYGIENE ANALYSES

### METALS BY ICP

<table>
<thead>
<tr>
<th>Method Code</th>
<th>Method Reference</th>
<th>Instrumentation</th>
<th>Detection Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAM001</td>
<td>NIOSH 7301, 7303</td>
<td>ICP/OES</td>
<td>mg/sample</td>
</tr>
<tr>
<td>PAM026</td>
<td>NIOSH 7300</td>
<td>ICP/MS</td>
<td>µg/sample</td>
</tr>
</tbody>
</table>

**Analyte List:**
- Aluminum, Al
- Antimony, Sb
- Arsenic, As
- Barium, Ba
- Beryllium, Be
- Boron, B
- Cadmium, Cd
- Chromium, Cr
- Cobalt, Co
- Copper, Cu
- Indium, In
- Iron, Fe
- Lead, Pb
- Manganese, Mn
- Nickel, Ni
- Mercury, Hg
- Selenium, Se
- Silver, Ag
- Titanium, Ti
- Vanadium, V
- Zinc, Zn

* First analyte on a sample / additional analyte on same sample

# Analyzed by ICP/MS only.

**Special discount:** USD 160 for any 8 analytes from above list per sample

### OTHERS (Non AIHA accredited methods):

<table>
<thead>
<tr>
<th>Metal</th>
<th>Method Code</th>
<th>Method Reference</th>
<th>Instrumentation</th>
<th>Sampling Medium</th>
<th>Fee (USD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lead in Paint</td>
<td>PAM004</td>
<td>ASTM E1645-94</td>
<td>ICP/OES</td>
<td>-</td>
<td>58</td>
</tr>
<tr>
<td>Lead in Wipe</td>
<td>PAM018</td>
<td>HUD-1539-LBP / NIOSH 9100</td>
<td>ICP/OES</td>
<td>Baby wipe</td>
<td>58</td>
</tr>
</tbody>
</table>

### PARTICULATE (NUISANCE DUST/OIL MIST)

<table>
<thead>
<tr>
<th>Method Code</th>
<th>Method Reference</th>
<th>Instrumentation</th>
<th>Sampling Medium</th>
<th>Fee (USD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAM017</td>
<td>NIOSH 0500 (Total Particulates)</td>
<td>Gravimetric</td>
<td>PVC filter</td>
<td>15</td>
</tr>
<tr>
<td>PAM017</td>
<td>NIOSH 0600 (Respirable particulates)</td>
<td>Gravimetric</td>
<td>SKC 225-8-01 (single filter)</td>
<td>15</td>
</tr>
<tr>
<td>PAM017</td>
<td>NIOSH 0600 (Respirable particulates)</td>
<td>Gravimetric</td>
<td>SKC 225-8202 (Matched-weight filter)</td>
<td>15</td>
</tr>
<tr>
<td>PAM025</td>
<td>HSE MDHS 14/3</td>
<td>Gravimetric</td>
<td>SKC 225-70A, 25mm (IOM Sampler)</td>
<td>28</td>
</tr>
</tbody>
</table>

### INORGANIC ACIDS BY IC

<table>
<thead>
<tr>
<th>Method Code</th>
<th>Method Reference</th>
<th>Instrumentation</th>
<th>Sampling Medium</th>
<th>Fee (USD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAM010</td>
<td>NIOSH 7903</td>
<td>IC</td>
<td>Silica gel (Specially cleaned) (+ Glass fiber filter plug)</td>
<td>50</td>
</tr>
</tbody>
</table>

**Analyte List:**
- Hydrobromic acid (HBr)
- Hydrofluoric acid (HF)
- Phosphoric acid (H3PO4)
- Hydrochloric acid (HCl)
- Nitric acid (HNO3)
- Sulfuric acid (H2SO4)

* First analyte on a sample / additional analyte on same sample

**Special discount:** USD 130 for complete analyte list per sample

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Method Reference</th>
<th>Instrumentation</th>
<th>Sampling Medium</th>
<th>Fee (USD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NaF as F</td>
<td>NIOSH 7906</td>
<td>IC</td>
<td>SKC 225-9001 (coated with sodium carbonate &amp; preloaded in cassettes)</td>
<td>50</td>
</tr>
<tr>
<td>NO2</td>
<td>OSHA ID-182</td>
<td>IC</td>
<td>Ogawa Passive Sampler</td>
<td>50</td>
</tr>
</tbody>
</table>
### ORGANIC SOLVENTS BY GC/FID

(For analyte not on the list, a one-time method development fee may apply. Please contact us for details.)

<table>
<thead>
<tr>
<th>Method Code</th>
<th>Method Reference</th>
<th>Instrumentation</th>
<th>Sampling Medium</th>
<th>Fee (USD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAM002</td>
<td>NIOSH methods</td>
<td>GC/FID</td>
<td>Sorbent tube</td>
<td>50 / 20 *</td>
</tr>
<tr>
<td>PAM015</td>
<td>NIOSH methods</td>
<td>GC/FID</td>
<td>3M 3500 Organic Vapor Monitor</td>
<td>50 / 20 *</td>
</tr>
<tr>
<td>PAM015</td>
<td>NIOSH methods</td>
<td>GC/FID</td>
<td>3M 3520 Organic Vapor Monitor</td>
<td>75 / 25 *</td>
</tr>
</tbody>
</table>

#### Analyte List:

- **Acetone**
  - NIOSH 1300
  - Anasorb CSC, SKC 226-01
  - 3M 3520

- **Acetonitrile**
  - NIOSH 1606
  - Anasorb CSC, SKC 226-09
  - 3M 3520

- **Biphenyl**
  - NIOSH 2530
  - Tenax, SKC 226-35-01
  - -

- **1-Butanol**
  - NIOSH 1401
  - Anasorb CSC, SKC 226-01
  - ◊

- **n-Butyl Acetate**
  - NIOSH 1450
  - Anasorb CSC, SKC 226-01
  - ◊

- **Carbitol Acetate**
  - OSHA PV2013
  - Anasorb CSC, SKC 226-01
  - ◊

- **Carbon Tetrachloride**
  - NIOSH 1003
  - Anasorb CSC, SKC 226-01
  - ◊

- **Chloroform**
  - NIOSH 1003
  - Anasorb CSC, SKC 226-01
  - ◊

- **Cyclohexanone**
  - NIOSH 1300
  - Anasorb CSC, SKC 226-01
  - -

- **1,2-Dichloroethane (Ethylene Dichloride)**
  - NIOSH 1003
  - Anasorb CSC, SKC 226-01
  - ◊

- **Dichloromethane (Methylene Chloride)**
  - NIOSH 1005
  - Anasorb CSC, SKC 226-01
  - 3M 3520

- **Diethyl ether**
  - NIOSH 1610
  - Anasorb CSC, SKC 226-01
  - 3M 3520

- **Ethanol**
  - NIOSH 1400
  - Anasorb CSC, SKC 226-01
  - 3M 3520

- **Ethyl Acetate**
  - NIOSH 1457
  - Anasorb CSC, SKC 226-01
  - ◊

- **Ethyl Benzene**
  - NIOSH 1501
  - Anasorb CSC, SKC 226-01
  - ◊

- **2-Ethylhexyl Acrylate**
  - OSHA PV2026
  - Anasorb CSC, SKC 226-01
  - -

- **n-Heptane**
  - NIOSH 1500
  - Anasorb CSC, SKC 226-01
  - ◊

- **n-Hexane**
  - NIOSH 1500
  - Anasorb CSC, SKC 226-01
  - ◊

- **Methanol**
  - NIOSH 2000
  - Silica gel, SKC 226-51
  - -

- **Methyl Ethyl Ketone (MEK)**
  - NIOSH 2500
  - Anasorb CMS, SKC 226-121
  - ◊

- **Methyl Isobutyl Ketone (MIBK)**
  - NIOSH 1300
  - Anasorb CSC, SKC 226-01
  - ◊

- **Methyl Methacrylate**
  - NIOSH 2537
  - XAD-2, SKC 226-30-06
  - ◊

- **Methyl tert-Butyl Ether (MTBE)**
  - NIOSH 1615
  - Anasorb CSC, SKC 226-37
  - ◊

- **1-Methyl-2-Pyrrolidinone (NMP)**
  - NIOSH 1302
  - Anasorb CSC, SKC 226-01
  - ◊

- **Petroleum Ether**
  - NIOSH 1550
  - Anasorb CSC, SKC 226-01
  - -

- **Phenyl Ether**
  - NIOSH 1617
  - Anasorb CSC, SKC 226-01
  - XAD-7, SKC 226-95
  - ◊

- **2-Propanol (Isopropanol)**
  - NIOSH 1400
  - Anasorb CSC, SKC 226-01
  - 3M 3520

- **Pyridine**
  - NIOSH 1613
  - Anasorb CSC, SKC 226-01
  - -

- **Styrene**
  - NIOSH 1501
  - Anasorb CSC, SKC 226-01
  - ◊

- **Tetrahydrofuran**
  - NIOSH 1609
  - Anasorb CSC, SKC 226-01
  - ◊

- **Tetrachloroethylene (Perchloroethylene)**
  - NIOSH 1003
  - Anasorb CSC, SKC 226-01
  - ◊

- **Toluene**
  - NIOSH 1501
  - Anasorb CSC, SKC 226-01
  - ◊

- **1,1,1-Trichloroethane**
  - NIOSH 1003
  - Anasorb CSC, SKC 226-01
  - ◊
<table>
<thead>
<tr>
<th>Analyte List:</th>
<th>Method Reference</th>
<th>Sorbent tube</th>
<th>Diffusive sampler</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trichloroethylene</td>
<td>NIOSH 1022</td>
<td>Anasorb CSC, SKC 226-01</td>
<td>◇</td>
</tr>
<tr>
<td>Vinyl acetate ♦</td>
<td>NIOSH 1453</td>
<td>Carbon molecular sieve, Orbo-92 or equivalent</td>
<td>◇</td>
</tr>
</tbody>
</table>

♦ As different desorption solvents are required for the specified analytes, please use a separate Anasorb CSC, SKC 226-01 tube or diffusive sampler for collection.

* First analyte on a sample / additional analyte on same sample

### OTHER ORGANIC SOLVENTS BY GC/FID

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Method Reference</th>
<th>Sorbent tube</th>
<th>Diffusive sampler</th>
<th>Fee (USD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetic Acid ♦</td>
<td>NIOSH 1603</td>
<td>Anasorb CSC, SKC 226-01</td>
<td>◇</td>
<td>65</td>
</tr>
<tr>
<td>Benzene</td>
<td>NIOSH 1501</td>
<td>Anasorb CSC, SKC 226-01</td>
<td>◇</td>
<td>65</td>
</tr>
<tr>
<td>o-, m-, p-Xylene</td>
<td>NIOSH 1501</td>
<td>Anasorb CSC, SKC 226-01</td>
<td>◇</td>
<td>65</td>
</tr>
<tr>
<td>Formaldehyde</td>
<td>NIOSH 2541</td>
<td>XAD-2, SKC 226-118</td>
<td>◇</td>
<td>75</td>
</tr>
<tr>
<td>Total Hydrocarbons (as Hexane)</td>
<td>NIOSH 1500</td>
<td>Anasorb CSC, SKC 226-01</td>
<td>◇</td>
<td>65</td>
</tr>
<tr>
<td>Stoddard Solvent</td>
<td>NIOSH 1550</td>
<td>Anasorb CSC, SKC 226-01</td>
<td>◇</td>
<td>65</td>
</tr>
<tr>
<td>Paraffin Wax</td>
<td>OSHA PV2047</td>
<td>Glass fiber filter, SKC 225-7</td>
<td>◇</td>
<td>65</td>
</tr>
</tbody>
</table>

♦ As different desorption solvents are required for the specified analytes, please use a separate Anasorb CSC, SKC 226-01 tube for collection.

### ORGANIC SCAN BY GC/MSD

<table>
<thead>
<tr>
<th>Organic Scan</th>
<th>Method Code</th>
<th>Sorbent tube</th>
<th>Diffusive sampler</th>
<th>Fee (USD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low Boiling or</td>
<td>PAM006</td>
<td>Anasorb CSC, SKC 226-01</td>
<td>◇</td>
<td>150 *</td>
</tr>
<tr>
<td>High Boiling Fraction</td>
<td></td>
<td></td>
<td></td>
<td>250 **</td>
</tr>
</tbody>
</table>

* Either low boiling or high boiling fraction

** Fee for both low boiling & high boiling fractions (Requires duplicate sorbent tubes)

### FORMALDEHYDE BY HPLC

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Method Code</th>
<th>Method Reference</th>
<th>Sampling Medium</th>
<th>Fee (USD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Formaldehyde</td>
<td>PAM023</td>
<td>NIOSH 2016</td>
<td>SKC UME® 100 or Silica gel 2,4-DNPH, SKC 226-119</td>
<td>75</td>
</tr>
</tbody>
</table>

(3 samples minimum)

### MICROBIOLOGICAL ANALYSIS

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Method Code</th>
<th>Method Reference</th>
<th>Sampling Medium</th>
<th>Fee (USD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Airborne Bacteria Count (uncorrected number of colonies on agar plate)</td>
<td>PAM027</td>
<td>AIH (1) 4/86, ACGIH, TSA, 30 °C for 2 days</td>
<td>Tryptic Soy Agar</td>
<td>40</td>
</tr>
<tr>
<td>Airborne Molds &amp; Yeasts (uncorrected number of colonies on agar plate)</td>
<td>PAM028</td>
<td>AIH (1) 4/86, ACGIH, MEA, 25 °C for 5 days</td>
<td>Malt Extract Agar</td>
<td>40</td>
</tr>
</tbody>
</table>
## SAMPLING MEDIA

### SORBENT TUBES & FILTERS

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Description</th>
<th>Treated</th>
<th>Sorbent (mg)</th>
<th>Unit Cost (USD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>225-3-01</td>
<td>SKC MCE filter, 37mm, 0.8μm, clear, 3 piece</td>
<td>No</td>
<td>-</td>
<td>3</td>
</tr>
<tr>
<td>225-8202</td>
<td>SKC PVC matched-weight filter, 37mm, 5μm, 3 piece</td>
<td>No</td>
<td>-</td>
<td>9</td>
</tr>
<tr>
<td>226-01</td>
<td>SKC Anasorb CSC, Coconut charcoal</td>
<td>No</td>
<td>50 / 100</td>
<td>2</td>
</tr>
<tr>
<td>226-09</td>
<td>SKC Anasorb CSC, Coconut charcoal</td>
<td>No</td>
<td>200 / 400</td>
<td>3</td>
</tr>
<tr>
<td>226-10</td>
<td>SKC Silica gel</td>
<td>No</td>
<td>75 / 150</td>
<td>2</td>
</tr>
<tr>
<td>226-37</td>
<td>SKC Charcoal (2 tubes)</td>
<td>No</td>
<td>200 and 400</td>
<td>6</td>
</tr>
<tr>
<td>226-51</td>
<td>SKC Silica gel</td>
<td>No</td>
<td>50 / 100</td>
<td>4</td>
</tr>
<tr>
<td>226-95</td>
<td>SKC XAD-7</td>
<td>No</td>
<td>50 / 100</td>
<td>6</td>
</tr>
<tr>
<td>226-118</td>
<td>SKC XAD-2 (2HMPP) #</td>
<td>Yes</td>
<td>60 / 120</td>
<td>8</td>
</tr>
<tr>
<td>226-119</td>
<td>SKC Silica gel (2,4-DNPH) #</td>
<td>Yes</td>
<td>150 / 300</td>
<td>8</td>
</tr>
<tr>
<td>226-10-03</td>
<td>SKC Silica gel (Specially cleaned) #</td>
<td>Yes</td>
<td>200 / 400</td>
<td>4</td>
</tr>
<tr>
<td>226-10-06</td>
<td>SKC Silica gel (Sulfuric Acid) #</td>
<td>Yes</td>
<td>100 / 200</td>
<td>7</td>
</tr>
</tbody>
</table>

Note:  # Limited shelf-life

All media is subject to availability and may require a minimum order.
Prices are subject to change without notice.

### ORGANIC VAPOR MONITORS

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Description</th>
<th>Treated</th>
<th>Unit Cost (USD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3500</td>
<td>3M Organic vapor monitor</td>
<td>No</td>
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<td>3520</td>
<td>3M Organic vapor monitor (2-stage)</td>
<td>No</td>
<td>38</td>
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<td>500-100</td>
<td>SKC UMEX 100 Organic vapor monitor for formaldehyde #</td>
<td>Yes</td>
<td>25</td>
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<td>PS-134</td>
<td>Ogawa passive sampler filter for NO2 #</td>
<td>Yes</td>
<td>8</td>
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