

Sherlock X™ Site Preparation for Fire Debris Analysis

Purpose

To assure that the installation of the MIDI Sherlock System along with the Agilent instrument and ChemStation can be completed successfully, the installation site must be properly prepared. The appropriate utilities and supplies must be available to complete and checkout the installation.

Customer Responsibilities

Customers should ensure that all necessary operating supplies, consumables and usage-dependent items such as vials, syringes and solvents required for the successful installation and checkout of the system are available. Installation sites should be prepared in accordance with the following specifications.

Important Information

If you have problems providing any of the following, please contact MIDI, Inc. for assistance. Users of the instrument should be present throughout the installation and familiarization otherwise important operational, maintenance and safety information may be missed.

Software Requirements

- Windows 7 Professional (SP1 or higher).*
- Administrator logon and password for the installation computer.

U.S. Windows 7 Setup

You should begin with a default installation of *Windows 7 (SP1 or higher)* using U.S. English settings. Do not change security settings until your MIDI system is operational. After the system is working, you may tighten security settings and enable screen savers to the extent that they do not interfere with operations.

PC Hardware Requirements

- All PC hardware should be listed in the *Windows 7 Professional Hardware Compatibility List* – see www.microsoft.com.
- Pentium processor operating at 1.0 GHz or higher (1.5 GHz or higher recommended).
- Minimum of **4.0 GB** of RAM (8 GB preferred).
- DVD-ROM drive.
- Hard disk with at least **30 GB free capacity** (60 GB recommended for local data storage).
- SVGA or better graphics adapter and monitor (min. resolution 1024 x 768).
- DirectX 9 graphics device with WDDM 1.0 or higher driver.
- LAN interface with TCP/IP protocol installed.

Second LAN interface card, if Intranet / Internet access is required.

- The voltage setting of the computer system and the power cables must be correct.

Agilent Technologies GC-MS

Electrical Power Specifications

- 7820 GC, 120V, standard heating, 20 Amp – Dedicated (North America).
- 7820 GC, 208V, fast heating, 15 Amp – Dedicated (North America).
- 7890 GC, 120V, standard heating, 20 Amp – Dedicated (North America).
- 7890 GC, 208V, fast heating, 15 Amp – Dedicated (North America).
- 5977 MSD, 120V
10 Amp – Dedicated (North America)
- 5977 MSD, 220-240V
10 Amp – Dedicated (North America)
- 5977 MSD, 200V
10 Amp – Dedicated (North America)

Gas Supply Requirements

- Helium gas, 99.999% pure.

Reagents and Supplies

One of the following calibration standards is needed:

- NIST SRM #2285 OR (NIST)
- ASTM E1618-PAK (Various sources)

The following supplies are needed to perform analysis on fire debris samples:

- Activated charcoal
- Carbon Disulfide
- Other materials as specified in the ASTM E1412 Standard

GC-MS Configuration

The Sherlock software is designed to work with specific Agilent GC-MS configurations. For detailed information about the MIDI-required configuration, please contact MIDI.

GC-MS Software

- Agilent GC-MS ChemStation Data Analysis D.01 or higher

GC-MS Spectral Libraries

- Wiley OR
- NIST

GC-MS Column

- HP-5ms, Agilent # 19091S-433I

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