

A4 Mass Spectrometer Source Cleaning

Expert Cleaning and Repair of Mass Spectrometer Sources

- Not an exchange program - your source is cleaned, repaired and returned to you.
- Filaments repaired and accurately aligned on source.
- 24 hour turnaround.

Scientific Instrument Services™ now offers mass spectrometer source cleaning. Since we first advertised this service in our January 1994 newsletter, many of our customers have taken advantage of this offer. This is NOT an exchange program. The same source that we receive from you is cleaned, repaired and returned back to you ready to install into your mass spectrometer.

24 Hour Turnaround on Source Cleaning

For rush 24 hour turn around, sources should be sent to S.I.S. via Federal Express or other overnight carrier. Once received, they will be cleaned and shipped the next day via an overnight carrier such as Federal Express. Please include your purchase order. If your source is not one of the ones listed, please include a copy of the manufacturers assembly instructions and schematic of the source assembly.

Service Notes

Source cleaning begins with the complete disassembly of the source. The metal parts are cleaned and polished, then washed in solvents and baked out in an oven. All ceramic insulators are sandblasted followed by solvent washing and bake out. If broken, most of these ceramics can be replaced at no extra cost, with the exception of those with a cost of \$50 or more. Vespel insulators are washed in solvent and baked out. If old filaments are included on the source they are repaired at no extra charge.

Additional charges may be incurred if metal parts, source heaters, thermocouples or filaments damaged beyond repair need to be replaced. If Vespel insulators are broken or missing, they will need to be replaced at an additional cost.

After all parts have been repaired, cleaned and baked out the source is reassembled. The filament is reinstalled and accurately aligned over the source hole. The source is checked for resistance leaks as well as visual alignment of all parts.

Not included in repairs are the replacement of the filaments, collectors, heaters, screws or other missing parts.

Normal turn around is 24 hours unless components need to be replaced which we need to custom order from the manufacturer.

Shipping in for Repair

Normally the source block and associated parts should be shipped in for repair. The source should be thoroughly wrapped in packaging material and double boxed to avoid damage in shipment. If available, a copy of your source assembly/disassembly schematic from your mass spec manual should be sent in with your source

Additional Mass Spectrometer Sources Repaired

In addition to the sources listed in the next few pages, SIS™ can clean and repair sources from any other mass spectrometers. Call SIS™ with your requirements. We will clean and repair your mass spectrometer source.



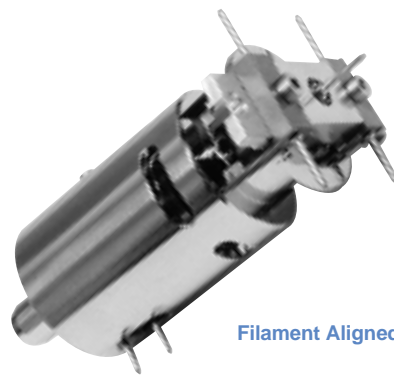
Parts are thoroughly cleaned in solvents and rinsed in a state-of-the-art ultrasonic aqueous cleaning system.



A small buffing wheel is used to polish metal filament and source parts to a high luster.



Assembly of Source is Done in a Dust Free Clean Environment



Filament Aligned on MS Source