

Preventive Maintenance Checklist 7890 Series and 7820 Series Gas Chromatographs

Purpose of Procedure

Preventive Maintenance is a factory recommended procedure designed to reduce the likelihood of electro-mechanical failures. Failure to perform preventive maintenance may reduce the long-term reliability of certain instrument systems.

Customer Responsibilities

Customers must ensure that all necessary operating supplies and consumables are available. Customers may be asked to provide results from recent calibrations or check standards.

Preventive Maintenance Checklist

- Discuss any problems the customer is having with the instrument.
- Perform general inspection of system and run startup tests.
- Clean interior and exterior of GC of dust and debris.
- Check oven motor for noise and vibration.
- Check oven flapper motor for 90° opening and closing (if accessible).
- Clean inlet-cooling fan of dust and debris. Install fan fuses if applicable
- Perform inlet maintenance (as per contract).
- Clean detector jets and collectors, if applicable.
- Verify detector gas flows and adjust if necessary.
- Run appropriate detector check standard (or customer standard) to verify operation.
- Fill out customer's instrument maintenance log.
- Fill out and provide completed PM Sticker to customer.

Comments: _____

Customer: _____

GC ID: _____

Service Rep.: _____

Date: _____

Preventive Maintenance Checklist Agilent 5975 Mass Selective Detector

Purpose of Procedure

Preventive Maintenance is a factory recommended procedure designed to reduce the likelihood of electro-mechanical failures. Failure to perform preventive maintenance may reduce the long-term reliability of certain instrument systems.

Customer Responsibilities

Customers must ensure that all necessary operating supplies and consumables are available. Customers may be asked to provide a recent autotune report for reference. The tune report will be used to evaluate current system performance.

Preventive Maintenance Checklist

- Discuss any problems the customer is having with the instrument.
- Generate Pre-PM Tune Report and vent system (if system is not already vented)
- Perform general inspection of system.
- Clean interior and exterior of GC/MS system of dust and debris.
- Clean ion source as requested by customer. Verify that there is no continuity between ion source body and the individual lenses.
- Check mechanical vacuum pump for leaks and change pump oil.
- Replace diffusion pump oil, if applicable.
- Inspect side plate O-ring seal.
- Inspect vent knob O-ring. Clean or replace as necessary
- Clean and inspect vacuum pump cooling fan. Install fan fuse if applicable.
- Inspect and clean electronics cooling fan. Install fan fuse if applicable.
- Check PFTBA level in vial; add to 1/4 full if necessary.
- If CI MSD, check PFDTD level in vial; add to 1/4 full if necessary.
- Re-install side plate assembly and ion source and initiate pump down cycle.
- Check for proper vacuum readings.
- Check and *"Optimize Quadrupole Frequency"* as necessary.
- Run Tune (Atune, Stune or applicable CI Tune)
- Fill out customer's instrument maintenance logbook.
- Adjust maintenance counters.
- Fill out FSA PM sticker and attach to instrument.

Comments:

Customer:

System ID:

Service Rep.:

Date:

An Integral Part of Your Company

FULL SPECTRUM
ANALYTICS INC.

FSA Ticket # 14388
11/26/2018
Workorder # 12076
Region: F10
Vendor Ref #

www.fsaservice.com/forms/Warranty.pdf

SITE LOCATION		BILL TO:	
Houston Forensics Science Center 1200 Travis St., Houston, TX 77002 United States Ms. Melissa Henry, mhenry@houstonforensicscience.org		Customer	
Service Rep: Lisa Busch		Service Type: PM	Quality Level: Standard
Billing Type: Non-Billable		Payment Method: Service Contract	PO#: N/A
System ID	Manufacturer	Model	Serial#
GC/MS #2 - Dayong Lee's Dept., Toxicology	Agilent	5975 diffusion	US92013451
Additional Instruments	G3440A CN10937127 G2614A (7683) Tray CN93253974 G2913A CN93257768		
PROBLEM DESCRIPTION:			
PM			
WORK PERFORMED:			
11-26-18 MS tuned and then vented. Added PFTBA to the cal valve. Cleaned the source and MSD fans. Changed the diff pump fluid and rough pump oil. Filaments OK. Changed the inlet liner and o-ring. Cleaned the split vent tubing. Cleaned the inlet fan. Cleaned GC inside/out. Cleaned the ALS guide rods and rotated belts. Cleaned the tray guide rods. MS pumps down normally with no leaks. Tune shows a small amount of water present. Customer will tune 11-27-18. Will check back 11-27-18. 11-28-18 Customer advises that autotune is acceptable and instrument is operational.			

FSA Part# (Inventory)	Description (manual)	Qty	Price Each	Total
AG-597X-PM-D	HP/Agilent 597X PM (Diffusion Pump) labor	1	\$1200.00	\$1,200.00
AG-597X-PM-D	HP/Agilent 597X PM (Diffusion Pump) parts	1	\$100.00	\$100.00

Parts Total: \$1300.00

HOURS	RATE	TOTAL	
Labor Hours: 4.0	Labor Rate: \$0	Labor Total:	\$0
Travel Hours: 2.0	Travel Rate: \$300	Travel Total:	\$600
	Extended Travel: \$0	Misc. S&H:	\$0.00
	NOT AN INVOICE, TAXES NOT INCLUDED	Total Labor:	\$600
		Report Total:	\$1900.00
		Credit Amount:	\$1900.00
		Balance Due:	\$0.00

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