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Innovating the HP Way

Procedure for separating GC from Mass Spec Applies to 5971/72A/B MSD

PROCEDURE TO SEPARATE GC FROM 5971/72A MSD -

There are not many times that the GC/MS system needs to be separated, but there are occasions like GC side trap maintenance, relocating or putting the system into storage or MS interface maintenance.

WHAT TO DO -

Materials needed:

Open end wrench 1/4 x 5/16-inch (part number 8710-0510)

- 1) Follow system VENT procedure to VENT the MASS-SPEC.

Warning: It may appear that the MS can be separated from the GC without venting the system, and it can. But the DANGER exists of accidentally breaking the column while moving the GC or MS, which could instantaneously vent the mass spec. This could cause the mass spec to back- stream (getting diffusion pump oil to get in the

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vacuum manifold), which could lead to an EXPENSIVE SERVICE CALL.

2) Remove capillary column from GC/MS interface.

Warning: Make sure GC/MS interface and GC oven have cooled before you remove column.

3) Turn off the GC.

4) Carefully move MSD away from the GC until you have access to the GC/MSD interface cable.

5) Disconnect the GC/MSD interface cable.

Warning: Disconnecting cable with GC turned on can cause a fault condition and could cause damage or personal injury.

6) Continue to move MSD until you have access to the section requiring maintenance.

7) To reposition the GC/MS reverse this procedure.

Caution: Before positioning the MS interface make sure that the insulation of the oven wall is in a good position to provide adequate thermal insulation and that no metal bear spots are visible. Also when positioning the GC/MS interface through the hole in the side of the oven, allow for a 1/4 to 3/8 inch gap between the end of the interface and the wall of the oven. This is to prevent the interface heater or sensor wires from shorting out against the oven wall, which is another reason for making sure that the oven wall insulation is positioned correctly.

