


[SCD Leak Check] Screen

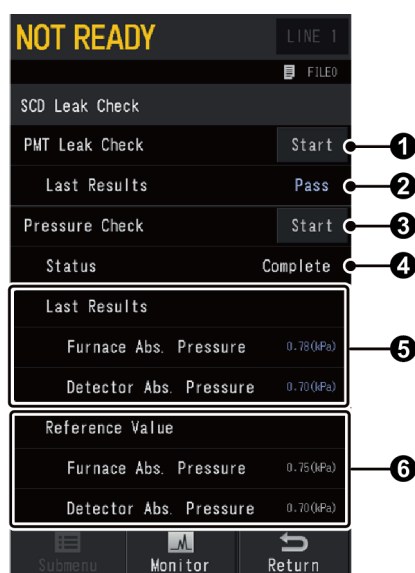
Press  (HOME) - [Detector] - [Submenu] - [SCD Leak Check] to display [SCD Leak Check] screen.

You can check the SCD system for leakage.

Note

- Before performing pressure check, remove the column from the SCD and seal the connection.
- PMT leak check and pressure check cannot be performed while the GC is turned on. It is because when [SCD Auto Start at GC Start] is set to [Enable], the SCD control is started upon the GC startup. Before check, stop the GC and ensure that gas and temperature control is terminated.
- When the result of PMT leak check or pressure check is "Fail", control of the SCD cannot be started even after the GC is turned on. Determine the cause of leak and resolve the problem. Then perform leak check again.

 **Reference** Furnace and Detector Pressure Do Not Decrease (SCD)



No.	Item	Description
①	PMT Leak Check	Press [Start] to start light leakage check for the photomultiplier.
②	Last Results	Displays the latest result of light leakage check for the photomultiplier. There is a light leakage when [Fail] is displayed.
③	Pressure Check	Press [Start] to start pressure leakage check for the furnace and detector.
④	Status	After pressure leakage check for the furnace and detector starts, the progress is displayed.
⑤	Last Results	Displays the latest result of pressure leakage check for the furnace and detector. There is a pressure leakage when [Fail] is displayed.
⑥	Reference Value	Displays the diagnosis results of the leakage check for the furnace and detector at the time of shipment and when the sensor is replaced.

If the last pressure check results differ significantly from the reference value, it is possible that there is a pressure leakage in the furnace or the detector. In this case, check that the pressure inside the

instrument has returned to atmospheric pressure. Then turn off the main power of the instrument and inspect the locations where maintenance was just performed.

About pressure check

- The fan of the SCD and vacuum pump is turned on during pressure check. Gas and temperature control of the SCD is not performed.
- Verify whether all the parts are attached at the pressure value 5 minutes after the vacuum pump is turned on.
- For [Furnace Abs. Pressure], the following diagnosis result is indicated based on the diagnosis pressure value.
When the result is more than 3.73 kPa: "Fail"

Note

A Pass determination is not performed.

- For [Detector Abs. Pressure], diagnosis is performed with the diagnosis pressure value determined by the following equation.
$$\text{Diagnosis Pressure Value} = \text{Furnace Absolute Pressure} - \text{Detector Absolute Pressure}$$

The following diagnosis result is indicated based on the diagnosis pressure value.
When the result is more than 1.17 kPa: "Fail"

Note

A Pass determination is not performed.