TEGA Surface Phase Characterization Sample Acquire

Activity Blocks Used:

Tega_prep_surface_R5

Tega_sample_acquire R5

Objectives:

This procedure turns on TEGA, prepares the instrument for the initial surface phase characterization sample, acquires sample delivered from the RA and closes the oven to TA #4.

Configuration: Landed Operations: Surface Phase Characterization. Instrument has gone through Checkout I, Checkout II Puncture seals, Cover retract has been complete and TA #4 door open has been completed and verified.

Assumptions: TEGA can not be turned on below -50C

Gas(es) used: Calibration and Carrier Gas Tanks have been punctured. No gases are flown during this activity.

Filaments used: 0

SW Version (386): V513 **SW Version (EGA):** V321

Sweep and hop mode version(s): **V112**

Super modes and Sweep modes used: None. The EGA is not ON during this activity.

1. Turn TEGA ON with tega_power_on (Controlled by interop)

    1.1. Add preheat pause as pass in duration determined by thermal environment

2. Call tega_prep_surface

    2.1. Execute Sequence 30A (turns down engineering readings)

        2.1.1. Pause for ~ 34 Minutes (set by interop/RA preparing sample)

3. Call tega_sample_acquire_Select TA #4 : (Interop Calls this block)

        3.1.1. Call tega_select_oven (TWEAKABLE – NEED TO VERIFY TA#)

3.1.2. Start solenoid shaker

3.1.3. Wait for oven Full: GV_TEGA_OVEN_FULL has a timeout of 15 minutes

3.1.4. Close Oven – wait for GV_TEGA_TA_DONE

3.1.5. Oven close time out is 20 minutes

4. Call tega_power_off Dump FPGA Registers

4.1. Main 3 Off

4.2. Main 2 Off

4.3. Main 1 Off