



12544 - CAL-NRS-502: NIRSpec Wheel Characterization

Cycle: 5, Proposal Category: CAL/NIRSPEC

INVESTIGATORS

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OBSERVATIONS

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
Observation Folder				
	1	FWA Characterization	NIRSpec Filter/Grating Wheel Test	NONE
	2	GWA Characterization	NIRSpec Filter/Grating Wheel Test	NONE

ABSTRACT

This activity is needed to verify and trend the behavior of the two NIRSpec wheel mechanisms (FWA and GWA). Pending any unexpected behavior, the FWA characterization and GWA characterization will each be done once during Cycle 5 (in October).

This calibration program may change in response to system developments and the final Cycle 5 science program.

OBSERVING DESCRIPTION

A series of mechanism move commands is issued to step the Filter Wheel and Grating Wheel—in separate visits—one position at a time through all eight wheel positions, in both the forward and reverse directions. At each position, the high capacity (HC) buffer is armed before a move and then dumped after the move. The procedure collects NIRSpec-focused telemetry data in the HC buffer at each commanded wheel position and writes it to

the on-board Solid State Recorder (SSR) for analysis after the procedure and SSR playback of the resulting telemetry data are completed.

Proposal 12544 - Observation 1 - CAL-NRS-502: NIRSpec Wheel Characterization

Observation	Proposal 12544, Observation 1: FWA Characterization Diagnostic Status: Warning Observing Template: NIRSpec Filter/Grating Wheel Test			Wed Apr 15 17:01:42 GMT 2026
Diagnostics	(Visit 1:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.			
Template	Wheel Test Type	Wheel Direction	Mechanism	Number of Rotations
	CHARACTERIZE	BOTH	FILTER	
Special Requirements	Between Dates 01-OCT-2026:00:00:00 and 01-NOV-2026:00:00:00 No Parallel Attachments			

Proposal 12544 - Observation 2 - CAL-NRS-502: NIRSpec Wheel Characterization

Observation	Proposal 12544, Observation 2: GWA Characterization Diagnostic Status: Warning Observing Template: NIRSpec Filter/Grating Wheel Test				Wed Apr 15 17:01:42 GMT 2026
Diagnostics	(Visit 2:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.				
Template	Wheel Test Type	Wheel Direction	Mechanism	Number of Rotations	
	CHARACTERIZE	BOTH	GRATING		
Special Requirements	Between Dates 01-OCT-2026:00:00:00 and 01-NOV-2026:00:00:00 No Parallel Attachments				