



8503 - CAL-MIRI-436 MIRI LRS slit throughput

Cycle: 4, Proposal Category: CAL/MIRI

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	Nod 1 scan	MIRI Low Resolution Spectroscopy	(1) WISE_J040937
	2	Nod 2 scan	MIRI Low Resolution Spectroscopy	(1) WISE_J040937

ABSTRACT

This calibration program will improve our understanding of the MIRI LRS slit throughput as a function of wavelength and position by scanning a point source across the slit at the two nominal nod positions. The scans will repeat the same scans used in Cycles 1-3. The target is an active galactic nucleus (AGN), as in Cycle 3. The red spectrum will greatly improve on the signal/noise at long wavelengths from scans using a standard star. The data will also check the slit throughput far from the slit center and improve our calibration for extended sources.

This calibration program may change in response to system developments and the final Cycle 4 science program.

OBSERVING DESCRIPTION

This activity images the AGN WISE J040937 in the F770W filter and scans it across the LRS slit in the two nod positions.

The two scans across the slit are linked as a non-interruptible sequence.

Proposal 8503 - Targets - CAL-MIRI-436 MIRI LRS slit throughput

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
	(1)	WISE_J040937	RA: 04 09 37.6750 (62.4069792d) Dec: -18 37 57.71 (-18.63270d) Equinox: J2000 <i>Comments: Coordinates from WISE Allsky release, so not that precise. Target extension is not certain. Category=Galaxy Description=[Active galactic nuclei] Extended=NO</i>		

Proposal 8503 - Observation 1 - CAL-MIRI-436 MIRI LRS slit throughput

Fri Mar 14 00:00:14 GMT 2025

Observation	<p>Proposal 8503, Observation 1: Nod 1 scan</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: MIRI Low Resolution Spectroscopy</p>									
Diagnostics	(Visit 1:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections		Miscellaneous		
	(1)	WISE_J040937	RA: 04 09 37.6750 (62.4069792d) Dec: -18 37 57.71 (-18.63270d) Equinox: J2000							
	<i>Comments: Coordinates from WISE Allsky release, so not that precise. Target extension is not certain. Category=Galaxy Description=[Active galactic nuclei] Extended=NO</i>									
Acquisition	#	Target	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	
	1	1 WISE_J040937	FND	FAST	10	1	1	27.75	188474.04	
Template	Subarray					Obtain Verification Image?				
	FULL					true				
Dithers	#	Dither Type			No. Spectral Steps	Spectral Step Offset	No. Spatial Steps		Spatial Step Offset	
	1	LONG CROSS SCAN NOD1								
Pointing Verification	#	PV Readout Pattern	PV Groups/Int	PV Integrations/Exp	PV Total Integrations	PV Exposures/Dith	PV Total Dithers	PV Total Exposure Time	PV ETC Wkbk.Calc ID	Filter
	1	FASTR1	10	1	1	1	1	27.75		FND

Proposal 8503 - Observation 1 - CAL-MIRI-436 MIRI LRS slit throughput

Spectral Elements	#	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Exposures/Dith	Total Dithers	Total Exposure Time ETC Wkbk.Calc ID
	Special Requirements	1	FASTR1	12	3	51	1	17
	Sequence Observations 1, 2, Non-interruptible							

Proposal 8503 - Observation 2 - CAL-MIRI-436 MIRI LRS slit throughput

Fri Mar 14 00:00:14 GMT 2025

Observation	<p>Proposal 8503, Observation 2: Nod 2 scan</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: MIRI Low Resolution Spectroscopy</p>									
Diagnostics	(Visit 2:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections		Miscellaneous		
	(1)	WISE_J040937	RA: 04 09 37.6750 (62.4069792d) Dec: -18 37 57.71 (-18.63270d) Equinox: J2000							
	<p><i>Comments: Coordinates from WISE Allsky release, so not that precise.</i></p> <p><i>Target extension is not certain.</i></p> <p><i>Category=Galaxy</i></p> <p><i>Description=[Active galactic nuclei]</i></p> <p><i>Extended=NO</i></p>									
Acquisition	#	Target	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	
	1	1 WISE_J040937	FND	FAST	10	1	1	27.75	188474.04	
Template	Subarray					Obtain Verification Image?				
	FULL					true				
Dithers	#	Dither Type			No. Spectral Steps	Spectral Step Offset	No. Spatial Steps		Spatial Step Offset	
	1	LONG CROSS SCAN NOD2								
Pointing Verification	#	PV Readout Pattern	PV Groups/Int	PV Integrations/Exp	PV Total Integrations	PV Exposures/Dith	PV Total Dithers	PV Total Exposure Time	PV ETC Wkbk.Calc ID	Filter
	1	FASTR1	10	1	1	1	1	27.75		FND

Proposal 8503 - Observation 2 - CAL-MIRI-436 MIRI LRS slit throughput

Spectral Elements	#	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Exposures/Dith	Total Dithers	Total Exposure Time ETC Wkbk.Calc ID
	Special Requirements	1	FASTR1	12	3	51	1	17
	Sequence Observations 1, 2, Non-interruptible							