

Proposal Identification	01_0138		
Project Title	Probing the 3-Dimensional Structure of the Ring Nebula with GREAT observations of [CII]		
Principle Investigator	R. Sahai	raghvendra.sahai@jpl.nasa.gov	
SMO contact person	G. Sandell	gsandell@sofia.usra.edu	
GREAT processing liaison	M. Requena (MPIfR)	mrequena@mpifr-bonn.mpg.de	
Observations			
Mission Identification	2013-04-12-GR_F100		
Flight date	2013 April 12		
GREAT configuration ⁽¹⁾	front-ends: L1 & L2	back-ends: AFFT spectrometers	
Astronomical Sources	NGC6720_6, NGC6720_7	Scans: 7429-7436	lines: [NII], [CII]
Mission Identification	2013-11-01-GR_F136		
Flight date	2013 Nov 01		
GREAT configuration ⁽¹⁾	front-ends: L1 & L2	back-ends: AFFT spectrometers	
Astronomical Sources	NGC6720_7A, NGC6720_2A, NGC6720_1, NGC6720_4A, NGC6720_4CI, NGC6720_4DI, NGC6720_4CIA, NGC6720_4DIA,	Scans: 9376-9393	lines: CO(11-10), [CII]
Calibrated data products based on: kosma_calibrator ver. Oct 2013, GILDAS software ver. Oct 2013			
product level	file name	description	
3a	Cycle1_GR_OT_01_0138_RSahai_Ta.great Cycle1_GR_OT_01_0138_RSahai_Tmb.great	Calibrated to T _A * scale (η _f = 0.97). Calibrated ⁽¹⁾ to T _{mb} scale, η _{mb} = 0.67 (L1), 0.67 (L2). Independent fit of dry & wet atmosphere. All scans quality validated.	
3b	Cycle1_GR_OT_01_0138_RSahai_aver.great	Created with Cycle1_GR_OT_01_0138_RSahai.class 1 st order spectral baselines removed. It creates, an average spectra for all the sources (1/σ _{rms} ² weighting of individual spectra, σ _{rms} baseline noise).	

Notes: ⁽¹⁾ Heyminck, S., et al.: GREAT: the SOFIA high-frequency heterodyne instrument. Astron.Astrophys. 542, L1 (2012)

⁽²⁾ Guan, X., et al.: GREAT/SOFIA atmospheric calibration. Astron.Astrophys. 542, L4 (2012)