

V&V Summary Report

L2 ASCDS Version : 10.4.3.1

Observation 18842 - L2 Version 1
Chandra X-Ray Center

L2 Processing Date : May 8 2016

See axaff18842N001_VV001_vvref2.pdf for the full report

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2016.05.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	72.025400554061

Comments

The target was monitored optically in slot 7 of the Aspect Camera during the observation. The ACA has the capability to devote one or more of the eight image slots to "monitor" particular sky locations. This allows simultaneous optical photometry of one or more targets in the ACA field of view. These optical sources can be slightly fainter than the ACA guide star limit of $m_{ACA} = 10.2$ mag. The bright-end limit for monitor star photometry is $m_{ACA}=6.2$ mag. However, since there are a fixed number of image slots, devoting a slot to photometry instead of tracking a guide star results in a degradation of the image reconstruction and celestial location accuracy (Section 5.4). Using one monitor slot represents a 15 - 25% increase in the aspect image reconstruction RMS diameter, depending on the particular guide star configuration. The photometric accuracy which can be achieved depends primarily on the star magnitude, integration time, CCD dark current, CCD read noise, sky background, and the CCD dark current uncertainty.

seq_num	201074	Sequence number
obs_id	18842	Observation id
title	Heating the Primordial Soup: X-raying the Circumstellar Disk of RY Lupi	Proposal title
observer	David Principe	Principal investigator
object	RY Lup	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	239.868333	Observer's specified target RA [deg]
dec_targ	-40.364222	Observer's specified target Dec [deg]
ra_nom	239.86739693891	Nominal RA [deg]
dec_nom	-40.361767303677	Nominal Dec [deg]
roll_nom	33.156031790931	Nominal Roll [deg]
revision	1	Processing version of data
ontime	72025.400554061	Sum of GTIs [s]
livetime	71084.335671494	Livetime [s]
ontime5	72025.400554061	Sum of GTIs [s]
ontime6	72006.554372311	Sum of GTIs [s]
ontime7	72025.400554061	Sum of GTIs [s]
ontime8	72025.400554061	Sum of GTIs [s]
l2events	650639	Number of level 2 events

