

V&V Summary Report

L2 ASCDS Version : 10.5.2

Observation 19017 - L2 Version 1
Chandra X-Ray Center

L2 Processing Date : Feb 16 2017

See axaff19017N001_VV001_vvref2.pdf for the full report

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2017.02.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	24.765282683611

Comments

Source is slightly extended with non-uniform X-ray flux in the core. The user may want to extract the spectrum using a different zeroth order position to center on the area of interest. The user may want to select a region or source of interest, then use software tools such as CIAO to specify the coordinates of the zeroth order source of interest before running the tools to resolve the dispersed events.

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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. Two monitor slots would increase the diameter by about 50 - 60%, but this configuration is not operationally allowed under normal circumstances. 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	300399	Sequence number
obs_id	19017	Observation id
title	EUV Emission from Accreting White Dwarfs in Outburst: A Pathfinder for the Great Observatories Accretion Legacy Survey	Proposal title
observer	Christian Knigge	Principal investigator
object	YZ Cnc	Source name
ra_targ	122.735833	Observer's specified target RA [deg]
dec_targ	28.142639	Observer's specified target Dec [deg]
ra_nom	122.73766877119	Nominal RA [deg]
dec_nom	28.133020778908	Nominal Dec [deg]
roll_nom	243.06584420181	Nominal Roll [deg]
revision	1	Processing version of data
ontime	24765.282683611	[s]
livetime	24532.917446137	Ontime multiplied by DTCOR
l2events	2081045	Number of level 2 events

