

V&V Summary Report

L2 ASCDS Version : 8.4.4

Observation 8319 - L2 Version 4
Chandra X-Ray Center

L2 Processing Date : Apr 23 2012

See axaff08319N004_VV001_vvref2.pdf for the full report

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.04.24
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	60.1175

Comments

Zeroth order piled up and cratered. Standard data processing software did not correctly locate the zeroth order due to pileup. Manual intervention was used to input the correct sky coordinates (X = 4054.68, Y = 3950.02) into the *srcla.fits file table. These corrected coordinates were determined using a software tool developed by CXC called findzero, which is expected to be released in CIAO (currently in ISIS). The tool calculates the point of intersection of the readout streak and the leg arm. The zeroth order source position determined by the standard pipeline processing using the tool tgdetect was not used in this processing. The newly determined zeroth order coordinates have been placed in the *srcla.fits file, replacing the coordinates determined by tgdetect. Note that these corrected coordinates of the zeroth order cannot be reproduced by running tgdetect on the data.

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Gain and CTI correction are not well calibrated on CCD_ID 5 (ACIS-S1). Default order sorting can clip some regions, particularly longward of 30A (first order). User-specified custom processing parameters may be required in tg_resolve_events (osipfile=none, osort_lo, osort_hi ~0.5) though this can allow more zeroth order background at short wavelengths.

seq_num	290698	Sequence number
obs_id	8319	Observation id
title	AO8 Calibration Observation of Capella	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	Capella	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	79.17625	Observer's specified target RA [deg]
dec_targ	45.997889	Observer's specified target Dec [deg]
ra_nom	79.164367173856	Nominal RA [deg]
dec_nom	46.017130991486	Nominal Dec [deg]
roll_nom	288.96010475524	Nominal Roll [deg]
revision	4	Processing version of data
ontime	60117.483864725	Sum of GTIs [s]
livetime	59146.534356724	Livetime [s]
ontime4	60114.959009707	Sum of GTIs [s]
ontime5	60117.442824721	Sum of GTIs [s]
ontime6	60117.401784718	Sum of GTIs [s]
ontime7	60117.483864725	Sum of GTIs [s]
ontime8	60117.360744715	Sum of GTIs [s]
ontime9	60117.319704711	Sum of GTIs [s]
l2events	1049699	Number of level 2 events

