

V&V Summary Report

L2 ASCDS Version : 8.4.5

Observation 11970 - L2 Version 4
Chandra X-Ray Center

L2 Processing Date : Jun 25 2012

See axaff11970N004_VV001_vvref2.pdf for the full report

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.06.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.065272039533

Comments

Note: spectrum shows faintly in bad-events image, meaning pileup might be an issue. Zeroth order piled up. 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=4246.72, y=4083.9) 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 meg arm (preferred position), or the readout streak and the heg 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	790219	Sequence number
obs_id	11970	Observation id
title	AO-11 Calibration Observations of Mkn421	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	MKN421	Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	166.113333	Observer's specified target RA [deg]
dec_targ	38.208806	Observer's specified target Dec [deg]
ra_nom	166.14001531183	Nominal RA [deg]
dec_nom	38.21057007317	Nominal Dec [deg]
roll_nom	191.99615612224	Nominal Roll [deg]
revision	4	Processing version of data
ontime	10065.272037685	Sum of GTIs [s]
livetime	9507.8409078854	Livetime [s]
ontime4	10065.299828529	Sum of GTIs [s]
ontime5	10065.230997682	Sum of GTIs [s]
ontime6	10065.189957678	Sum of GTIs [s]
ontime7	10065.272037685	Sum of GTIs [s]
ontime8	10065.148917675	Sum of GTIs [s]
ontime9	10065.107877672	Sum of GTIs [s]
l2events	431349	Number of level 2 events

