

V&V Summary Report

L2 ASCDS Version : 8.4.5

Observation 2464 - L2 Version 5
Chandra X-Ray Center

L2 Processing Date : Sep 18 2012

See axaff02464N003_VV001_vvref2.pdf for the full report

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.10.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	30.56

Comments

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.

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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=4148.32`, `y=3952.79`) 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 as `tg_findzo` (currently in ISIS as `findzo`). 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.

seq_num	790058	Sequence number
obs_id	2464	Observation id
title	AO3 CALIBRATION OBSERVATIONS OF 3C273	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	3C273	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	187.277917	Observer's specified target RA [deg]
dec_targ	2.052389	Observer's specified target Dec [deg]
ra_nom	187.28498936975	Nominal RA [deg]
dec_nom	2.0721077701498	Nominal Dec [deg]
roll_nom	245.74303287262	Nominal Roll [deg]
revision	5	Processing version of data
ontime	30560.046903938	Sum of GTIs [s]
livetime	29460.887956892	Livetime [s]
ontime4	30560.087943941	Sum of GTIs [s]
ontime5	30560.005863935	Sum of GTIs [s]
ontime6	30559.964823946	Sum of GTIs [s]
ontime7	30560.046903938	Sum of GTIs [s]
ontime8	30559.923783943	Sum of GTIs [s]
ontime9	30559.88274394	Sum of GTIs [s]
l2events	240565	Number of level 2 events

