

V&V Summary Report

L2 ASCDS Version : 8.4.5

Observation 10668 - L2 Version 3
Chandra X-Ray Center

L2 Processing Date : Jun 25 2012

See axaff10668N003_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	10.064599828541

Comments

Note: spectrum shows faintly in bad-events image, meaning pileup may 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=4246.22, y=4082.27) 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	790205	Sequence number
obs_id	10668	Observation id
title	AO-10 Calibration Observations of PKS2155-304	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	166.1399100076	Nominal RA [deg]
dec_nom	38.210834466791	Nominal Dec [deg]
roll_nom	192.74926787396	Nominal Roll [deg]
revision	3	Processing version of data
ontime	10064.599828541	Sum of GTIs [s]
livetime	9507.2059267771	Livetime [s]
ontime4	10064.599828541	Sum of GTIs [s]
ontime5	10064.599828541	Sum of GTIs [s]
ontime6	10064.599828541	Sum of GTIs [s]
ontime7	10064.599828541	Sum of GTIs [s]
ontime8	10064.56399858	Sum of GTIs [s]
ontime9	10064.522958577	Sum of GTIs [s]
l2events	565254	Number of level 2 events

