

# V&V Summary Report

## L2 ASCDS Version : 10.2.1

Observation 16423 - L2 Version 2  
Chandra X-Ray Center

L2 Processing Date : Dec 11 2014

See axaff16423N002\_VV001\_vvref2.pdf for the full report

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2015.11.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	30.066001194715

## Comments

These data have been reprocessed with new aspect alignment calibration files that correct small mean offsets (up to 0.4 arcsecs) and improve overall astrometric accuracy. The new calibration was determined using data from the time period being reprocessed and was performed using cross-correlation of X-ray sources with radio and optical counterparts.

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Window constraint met.

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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.

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The source's zeroth order falls very close to the gap between the CCD chips. Any suggestion of source variability should consider this possibility. Dithering over the chip boundary can give a false indication of variability.

seq_num	790263	Sequence number
obs_id	16423	Observation id
title	AO-15 LETG/ACIS-S Calibration Observations of PKS2155-304	Proposal
observer	Dr. CXC Calibration	Principal investigator
object	PKS2155-304	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	329.716667	Observer's specified target RA [deg]
dec_targ	-30.225556	Observer's specified target Dec [deg]
ra_nom	329.72455175915	Nominal RA [deg]
dec_nom	-30.245450520454	Nominal Dec [deg]
roll_nom	116.04369389001	Nominal Roll [deg]
revision	2	Processing version of data
ontime	30066.001194715	Sum of GTIs [s]
livetime	28141.146756566	Livetime [s]
ontime5	30066.001194715	Sum of GTIs [s]
ontime6	30066.001194715	Sum of GTIs [s]
ontime7	30066.001194715	Sum of GTIs [s]
ontime8	30066.001194715	Sum of GTIs [s]
ontime9	30066.001194715	Sum of GTIs [s]
l2events	77451	Number of level 2 events

