

# V&V Summary Report

## L2 ASCDS Version : 8.4.5

Observation 3172 - L2 Version 5  
Chandra X-Ray Center

L2 Processing Date : Nov 9 2012

See [axaff03172N003\\_VV001\\_vvref2.pdf](#) for the full report

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.12.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.756

## Comments

Non-standard grating/detector combination required custom parameters. Used flat order-sorting in `tg_resolve_events`, since there is no 'osip' table for ACIS-I. `=== pset grt_lev15 osipfile=none=== pset grt_lev15 osort_lo=0.3=== pset grt_lev15 osort_hi=0.3===` 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=4073.44, y=4070.88`) into the `*src1a.fits` file table. These corrected coordinates were determined by eye because neither the pipeline tool `tgdetect` nor the `findzero` tool was successful in identifying the piled up zeroth order so close to a chip boundary. The determination of the position by eye is expected to be in error by up to 1-2 pixels. The newly determined zeroth order coordinates have been placed in the `*src1a.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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Zeroth order image of the source falls between two CCD chips during most of the observation, and only occasionally dithers onto the chip. This placement of the zeroth order has no affect on the dispersed spectrum.

seq_num	790066	Sequence number
obs_id	3172	Observation id
title	AO3 LETG/ACIS-I CALIBRATION OBSERVATIONS OF PKS2155-304	Proposal t
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	329.71329136851	Nominal RA [deg]
dec_nom	-30.222284162943	Nominal Dec [deg]
roll_nom	286.87351696056	Nominal Roll [deg]
revision	5	Processing version of data
ontime	7753.6000072062	Sum of GTIs [s]
livetime	7655.4192552575	Livetime [s]
ontime0	7753.6000072062	Sum of GTIs [s]
ontime1	7750.359046936	Sum of GTIs [s]
ontime2	7750.3590170443	Sum of GTIs [s]
ontime3	7753.6000072062	Sum of GTIs [s]
ontime6	7753.6000072062	Sum of GTIs [s]
ontime7	7753.6000072062	Sum of GTIs [s]
l2events	81283	Number of level 2 events

