

V&V Summary Report

L2 ASCDS Version : 8.4.5

Observation 2323 - L2 Version 3
Chandra X-Ray Center

L2 Processing Date : Sep 4 2012

See [axaff02323N002_VV001_vvref2.pdf](#) for the full report

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.09.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	9.091

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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Off-axis source gratings observation. WARNING: there are no standard ciao tools for analysis of grating spectra from extended sources. The shape of an emission 'line' will be the shape of the zero order spatial structure convolved with the instrumental LSF. Grating extractions can be used, but need to be combined with custom spatial-spectral analysis, since wavelength is multi-valued at any particular diffraction angle. WARNING: The user will need to deconvolve the PSF of the off-axis source to get an accurate determination of the zeroth order position, then use software tools such as CIAO to specify the coordinates of the zeroth order before running the tools to resolve the dispersed events. The spectral data supplied in this processing are only energy-calibrated for the results of `tgdetect`, which uses the source-detection tool `celldetect`.

seq_num	390020	Sequence number
obs_id	2323	Observation id
title	GRATINGS CALIBRATION OBSERVATIONS OF PKS2155-304	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	PKS2155-304	Source name
dtcycle	0	
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	329.68863641666	Nominal RA [deg]
dec_nom	-30.132863517045	Nominal Dec [deg]
roll_nom	283.77074811948	Nominal Roll [deg]
revision	3	Processing version of data
ontime	9091.2000084519	Sum of GTIs [s]
livetime	8976.0817598815	Livetime [s]
ontime4	9091.2000084519	Sum of GTIs [s]
ontime5	9091.2000084519	Sum of GTIs [s]
ontime6	9091.2000084519	Sum of GTIs [s]
ontime7	9091.2000084519	Sum of GTIs [s]
ontime8	9091.2000084519	Sum of GTIs [s]
ontime9	9091.2000084519	Sum of GTIs [s]
l2events	126810	Number of level 2 events

