

V&V Summary Report

L2 ASCDS Version : 8.4.5

Observation 1907 - L2 Version 4
Chandra X-Ray Center

L2 Processing Date : Oct 12 2012

See axaff01907N002_VV001_vvref2.pdf for the full report

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.10.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.213

Comments

A spatial exclusion window was used to filter the event from the zeroth order so that only 1 in 10 events were recorded. In spite of this filtering, the zeroth order is still piled up. Standard data processing software did not correctly locate the zeroth order due to the reduced count rate and to pileup. Manual intervention was used to input the correct sky coordinates (x=4082.41, y=4124.69) into the *src1a.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 meg 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 *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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Faint grating spectra can be seen in an image of bad events. This is probably due to pileup in the spectrum, causing migration to bad grades. This should be considered in analysis.

seq_num	400120	Sequence number
obs_id	1907	Observation id
title	PHASE RESOLVED SPECTROSCOPY OF THE X-RAY P-CYGNI PROFILES FROM CIRCINUS X-1	Proposal title
observer	Prof. William Brandt	Principal investigator
object	CIR X-1	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	230.170833	Observer's specified target RA [deg]
dec_targ	-57.166667	Observer's specified target Dec [deg]
ra_nom	230.16668949963	Nominal RA [deg]
dec_nom	-57.170553606837	Nominal Dec [deg]
roll_nom	262.03948817281	Nominal Roll [deg]
revision	4	Processing version of data
ontime	8212.9814075381	Sum of GTIs [s]
livetime	7961.6386012345	Livetime [s]
ontime5	8212.9403675348	Sum of GTIs [s]
ontime6	8212.8993275315	Sum of GTIs [s]
ontime7	8212.9814075381	Sum of GTIs [s]
ontime8	8212.8582875431	Sum of GTIs [s]
l2events	1181075	Number of level 2 events

