

V&V Summary Report

L2 ASCDS Version : 8.4.5

Observation 3814 - L2 Version 3
Chandra X-Ray Center

L2 Processing Date : Oct 30 2012

See axaff03814N002_VV001_vvref2.pdf for the full report

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.12.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	48.325

Comments

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=4099.96, y=4024.89) into the *src1a.fits file table. These corrected coordinates were determined using a software tool developed by CXC called tg_findzo, available in CIAO. 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	400301	Sequence number
obs_id	3814	Observation id
title	CYGNUS X-1: X-RAY DIPS, DISTANCE, AND THE X-RAY HALO	Proposal titl
observer	Dr. Katja Pottschmidt	Principal investigator
object	CYG X-1	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	299.590417	Observer's specified target RA [deg]
dec_targ	35.20175	Observer's specified target Dec [deg]
ra_nom	299.59087262083	Nominal RA [deg]
dec_nom	35.211411930104	Nominal Dec [deg]
roll_nom	97.946317453269	Nominal Roll [deg]
revision	3	Processing version of data
ontime	48324.199661136	Sum of GTIs [s]
livetime	47185.095933425	Livetime [s]
ontime4	48324.199661136	Sum of GTIs [s]
ontime5	48324.199661136	Sum of GTIs [s]
ontime6	48324.199661136	Sum of GTIs [s]
ontime7	48324.199661136	Sum of GTIs [s]
ontime8	48322.458641022	Sum of GTIs [s]
ontime9	48324.199661136	Sum of GTIs [s]
l2events	5356527	Number of level 2 events

