

V&V Summary Report

L2 ASCDS Version : 8.4.5

Observation 3354 - L2 Version 4
Chandra X-Ray Center

L2 Processing Date : Oct 6 2012

See axaff03354N002_VV001_vvref2.pdf for the full report

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.10.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	35.214

Comments

Zeroth order events are not available because a spatial exclusion window was used to block them. Standard data processing software did not correctly locate the zeroth order for this reason. Manual intervention was used to input the correct sky coordinates (x=4124.64, y=4029.03) into the *srcla.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 *srcla.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.

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Charge time for this ObsId remains at original value of 35.214 ksec.

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The charge time is based on CCD_ID=5 (S1), which had no dropped frames and does reflect the requested exposure. Other chips have dropped frames due to telemetry saturation by the zeroth order (no mitigating zero order sample-cycle or exclusion region was requested), and their effective exposures range from 15.5–34.7ks.

seq_num	900193	Sequence number
obs_id	3354	Observation id
title	PROBING THE INTERSTELLAR MEDIUM: X-RAY ABSORPTION AT IRON AND OXYGEN WITH GX 349+2	Proposal title
observer	Prof Claude Canizares	Principal investigator
object	GX 349+2	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	256.435417	Observer's specified target RA [deg]
dec_targ	-36.422778	Observer's specified target Dec [deg]
ra_nom	256.4401921022	Nominal RA [deg]
dec_nom	-36.413856024338	Nominal Dec [deg]
roll_nom	76.860856826358	Nominal Roll [deg]
revision	4	Processing version of data
ontime	17923.388572574	Sum of GTIs [s]
livetime	17446.064254569	Livetime [s]
ontime4	31171.485420853	Sum of GTIs [s]
ontime5	35213.47295627	Sum of GTIs [s]
ontime6	15497.726488203	Sum of GTIs [s]
ontime7	17923.388572574	Sum of GTIs [s]
ontime8	24138.153409421	Sum of GTIs [s]
ontime9	34684.783080935	Sum of GTIs [s]
l2events	4925075	Number of level 2 events

