

V&V Summary Report

L2 ASCDS Version : 8.4.5

Observation 716 - L2 Version 8
Chandra X-Ray Center

L2 Processing Date : Nov 13 2012

See axaff00716N003_VV001_vvref2.pdf for the full report

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.12.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.573

Comments

This is an interleaved-mode observation. The primary exposure (e1) is shorter than the secondary exposure (e2). Therefore the longer exposure was used to determine the zeroth order position, then that position was applied to both exposures. === For e2 exposure, to determine the zeroth order position:=== Zeroth order piled up and cratered. Standard data processing software did not correctly locate the zeroth order due to pileup. Manual intervention was used to input the correct sky coordinates (sky coordinates x=4082.35, y=4134.48) 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. === For e1 exposure: Zeroth order is also piled up and cratered. However, it is important that the zeroth order positions of e1 and e2 be identical, so the e2 position was manually inserted in the *src1a.fits file. === Faint grating spectra can be seen in the image of bad events for both e1 and

e2. This is probably due to pileup in the spectrum, causing migration to bad grades. This should be considered in analysis.

seq_num	400083	Sequence number
obs_id	716	Observation id
title	AXAF GRATING SPECTRA AND PRECISE POSITIONS OF BRIGHT GALACTIC-CENTER X-RAY SOURCES	Proposal title
observer	Dr. Alan Levine	Principal investigator
object	GX 5-1	Source name
dtcycle	0	
cycle	P	events are from which exps? P[rimary] S[econdar]
ra_targ	270.28375	Observer's specified target RA [deg]
dec_targ	-25.079167	Observer's specified target Dec [deg]
ra_nom	270.28212062084	Nominal RA [deg]
dec_nom	-25.083561907991	Nominal Dec [deg]
roll_nom	273.73251388048	Nominal Roll [deg]
revision	8	Processing version of data
ontime	1401.3713802695	Sum of GTIs [s]
livetime	237.9292197225	Livetime [s]
ontime5	1401.3713802695	Sum of GTIs [s]
ontime6	1401.3713802695	Sum of GTIs [s]
ontime7	1401.3713802695	Sum of GTIs [s]
ontime8	1401.3713802695	Sum of GTIs [s]
l2events	83696	Number of level 2 events

