

# V&V Summary Report

## L2 ASCDS Version : 8.4.5

Observation 715 - L2 Version 8  
Chandra X-Ray Center

L2 Processing Date : Oct 15 2012

See axaff00715N003\_VV001\_vvref2.pdf for the full report

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.10.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	11.0096034

## 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.

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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=4105.7, y=4110.7) 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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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.

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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	400082	Sequence number
obs_id	715	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 349+2	Source name
dtcycle	0	&#160
cycle	P	events are from which exps? P[primary] S[econdar
ra_targ	256.435	Observer's specified target RA [deg]
dec_targ	-36.423611	Observer's specified target Dec [deg]
ra_nom	256.43694868315	Nominal RA [deg]
dec_nom	-36.425003942169	Nominal Dec [deg]
roll_nom	80.124157203988	Nominal Roll [deg]
revision	8	Processing version of data
ontime	1369.9110458046	Sum of GTIs [s]
livetime	196.15928296567	Livetime [s]
ontime5	1369.8700058013	Sum of GTIs [s]
ontime6	1369.828965798	Sum of GTIs [s]
ontime7	1369.9110458046	Sum of GTIs [s]
ontime8	1369.7879258096	Sum of GTIs [s]
l2events	73293	Number of level 2 events

