

# V&V Summary Report

## L2 ASCDS Version : 8.4.5

Observation 3052 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Oct 9 2012

See axaff03052N002\_VV001\_vvref2.pdf for the full report

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.10.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	156.603

## Comments

Roll constraint specified by PI met. However, the dispersed HETG spectral arms are oriented NE/SW, rather than NW/SE as discussed in the comments by the PI. Therefore, the dispersed spectra are parallel to, rather than perpendicular to, the extended NLR of the source.  
Coordinated with HST.

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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=4040.78, y=4139.19) 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.

seq_num	700491	Sequence number
obs_id	3052	Observation id
title	REVEALING THE NATURE OF THE X-RAY ABSORPTION IN NGC 4151	Proposal
observer	Dr. Steven Kraemer	Principal investigator
object	NGC 4151	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	182.63625	Observer's specified target RA [deg]
dec_targ	39.405444	Observer's specified target Dec [deg]
ra_nom	182.62583901733	Nominal RA [deg]
dec_nom	39.40001997514	Nominal Dec [deg]
roll_nom	224.16333431741	Nominal Roll [deg]
revision	3	Processing version of data
ontime	156603.02689597	Sum of GTIs [s]
livetime	153112.07166208	Livetime [s]
ontime4	156603.0268262	Sum of GTIs [s]
ontime5	156601.18590587	Sum of GTIs [s]
ontime6	156601.18582606	Sum of GTIs [s]
ontime7	156603.02689597	Sum of GTIs [s]
ontime8	156603.02684614	Sum of GTIs [s]
ontime9	156597.50383589	Sum of GTIs [s]
l2events	1138886	Number of level 2 events

