

# V&V Summary Report

## L2 ASCDS Version : 8.4.5

Observation 12072 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Jun 19 2012

See axaff12072N003\_VV001\_vvref2.pdf for the full report

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.06.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	18.569099869847

## 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=4130.8, y=4090.29) 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 (currently in ISIS). The tool calculates the point of intersection of the readout streak and the meg arm (preferred position), or the readout streak and the heg 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	401109	Sequence number
obs_id	12072	Observation id
title	Deep Chandra Observations of the Black Hole LMC X-1	Proposal title
observer	Dr. Michael Nowak	Principal investigator
object	LMC X-1	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	84.911667	Observer's specified target RA [deg]
dec_targ	-69.74325	Observer's specified target Dec [deg]
ra_nom	84.925453064042	Nominal RA [deg]
dec_nom	-69.742356620462	Nominal Dec [deg]
roll_nom	339.1695497486	Nominal Roll [deg]
revision	3	Processing version of data
ontime	18569.099869847	Sum of GTIs [s]
livetime	18131.386860003	Livetime [s]
ontime4	18569.099869847	Sum of GTIs [s]
ontime5	18569.099869847	Sum of GTIs [s]
ontime6	18569.099869847	Sum of GTIs [s]
ontime7	18569.099869847	Sum of GTIs [s]
ontime8	18569.099869847	Sum of GTIs [s]
ontime9	18569.099869847	Sum of GTIs [s]
l2events	433335	Number of level 2 events

