## V&V Summary Report L2 ASCDS Version : 8.4.5

## Observation 11605 - L2 Version 2 Chandra X-Ray Center

L2 Processing Date : Jun 18 2012

See axaff11605N002\_VV001\_vvref2.pdf for the full report

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.06.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.2435989570618

## 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=4003.27, y=4220.05) 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.

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Gain and CTI correction are not well calibrated on CCD\_ID 5 (ACIS-S1). Default order sorting can clip some regions, particularly longward of 30A (first order). User-specified custom processing parameters may be required in tg\_resolve\_events (osipfile=none, osort\_lo, osort\_hi ~0.5) though this can allow more zeroth order background at short wavelengths.

seq_num	702191	Sequence number
obs_id	11605	Observation id
title	A Joint Chandra, Fermi, MAGIC, and VERITAS Broadband Study of One High-Energy Blazar in A Major Outburst	Proposal title
observer	Prof Alexander Konopelko	Principal investigator
object	Mrk 421	Source name
dtycycle	0	
cycle	Р	events from which exps? Prim/Second/Both
ra_targ	166.11375	Observer's specified target RA [deg]
dec_targ	38.208806	Observer's specified target Dec [deg]
ra_nom	166.09762005502	Nominal RA [deg]
dec_nom	38.191984019155	Nominal Dec [deg]
roll_nom	60.155853965022	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5243.6999106407	Sum of GTIs [s]
livetime	4953.2952842606	Livetime [s]
ontime4	5243.6999106407	Sum of GTIs [s]
ontime5	5243.6999106407	Sum of GTIs [s]
ontime6	5243.6999106407	Sum of GTIs [s]
ontime7	5243.6999106407	Sum of GTIs [s]
ontime8	5243.6757982373	Sum of GTIs [s]
ontime9	5243.634758234	Sum of GTIs [s]
l2events	224888	Number of level 2 events

