

V&V Summary Report

L2 ASCDS Version : 8.1.1

Observation 1447 - L2 Version 4
Chandra X-Ray Center

L2 Processing Date : Nov 24 2009

See [axaff01447N001_VV001_vvref2.pdf](#) for the full report

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2010.03.31
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.766

Comments

Off-axis ACIS response to Cas A on chip I3. Only I3 chip was read down.

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Charge time for this ObsId remains at previous value of 3.766 ksec, although with the current processing the charge time would have been 3.748 ksec.

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Pileup throughout most of the observation.

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Discontinuity in SIM dtheta value about 2.5 ksec into the observation. Fid light positions are offset after this discontinuity,

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The focal plane temperature is approximately -110 C during this observation. This reprocessing of the data applies no CTI correction because none is available for this temperature at present.

The ACIS CTI correction has not been calibrated at this temperature, because it was early in the mission, and ACIS had not yet been lowered to the standard -119.7 C. Both front and back illuminated chips are affected. However a T_GAIN correction has been applied to the BI chips (ACIS-5 and ACIS-7) data included here.

The ACIS spectral response calibration is less accurate at these warmer temperatures than it is at -119.7 C. Users whose science objectives depend on the most accurate spectral response (ie: fitting line-rich spectra) may notice an effect. Users whose science objectives do not depend on the most accurate spectral response should not notice an effect.

seq_num	580397	Sequence number
obs_id	1447	Observation id
title	ACIS CHIP RESPONSE TO CAS A, JAN. 99	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	CAS A [Chip I3, T=110, Offsets=-2,2,0]	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	350.8575	Observer's specified target RA
dec_targ	58.814833	Observer's specified target Dec
ra_nom	350.75790336612	Nominal RA
dec_nom	58.777182403398	Nominal Dec
roll_nom	259.53229514365	Nominal Roll
revision	4	Processing version of data
ontime	3748.5074400604	Sum of GTIs [s]
livetime	3701.0415817741	Livetime [s]
ontime0	5038.5322273821	Sum of GTIs [s]
ontime1	5038.4911873862	Sum of GTIs [s]
ontime2	5038.4501473829	Sum of GTIs [s]
ontime3	3748.5074400604	Sum of GTIs [s]
ontime6	5018.9221165702	Sum of GTIs [s]
ontime7	5038.5732673854	Sum of GTIs [s]
l2events	842750	Number of level 2 events

