

# V&V Summary Report

## L2 ASCDS Version : 8.1.2

Observation 214 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Dec 16 2009

See [axaff00214N001\\_VV002\\_vvref2.pdf](#) for the full report

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2010.04.01
V&V Edition	2
V&V Disposition and Status	OK
V&V Charge Time	2.804

## Comments

Chandra FIRST LIGHT. ACIS effective area measurement using Cas A on chip S3. Only chip S3 contains data.

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Slot 7 was not utilized in this observation.

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Pileup throughout this observation.

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The focal plane temperature is approximately -100 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

effect.

seq_num	590082	Sequence number
obs_id	214	Observation id
title	ACIS CHIP RESPONSE TO CAS A, JAN. 99	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	CAS A [Chip S3, T=100, Offsets=-2,0,0 First Light]	Source name
dtcycle	0	&#160
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	350.79088856944	Nominal RA
dec_nom	58.831502178088	Nominal Dec
roll_nom	157.72901198836	Nominal Roll
revision	3	Processing version of data
ontime	2803.4905279353	Sum of GTIs [s]
livetime	2767.9910428113	Livetime [s]
ontime4	3347.3975657672	Sum of GTIs [s]
ontime5	5026.2543974817	Sum of GTIs [s]
ontime6	4183.4420800582	Sum of GTIs [s]
ontime7	2803.4905279353	Sum of GTIs [s]
ontime8	4063.6088616401	Sum of GTIs [s]
ontime9	3956.6160346419	Sum of GTIs [s]
l2events	895163	Number of level 2 events

