

# V&V Summary Report

## L2 ASCDS Version : 8.1.2

Observation 219 - L2 Version 4  
Chandra X-Ray Center

L2 Processing Date : Dec 17 2009

See [axaff00219N001\\_VV001\\_vvref2.pdf](#) for the full report

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2010.04.01
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.404

## Comments

Off-axis ACIS effective area measurement using Cas A on chip I3. Only events from chip I3 were telemetered.

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Charge time for this ObsId remains at original value of 1.404 ksec, although with the current processing the charge time would have been 1.399 ksec.

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Pileup throughout most of the observations.

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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

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	590087	Sequence number
obs_id	219	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=100, Offsets=-2,5,0]	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	350.81854195305	Nominal RA
dec_nom	58.917969364438	Nominal Dec
roll_nom	164.64338884805	Nominal Roll
revision	4	Processing version of data
ontime	1399.1727556363	Sum of GTIs [s]
livetime	1381.4555877237	Livetime [s]
ontime0	1759.0422995463	Sum of GTIs [s]
ontime1	1759.0012595505	Sum of GTIs [s]
ontime2	1758.9602195472	Sum of GTIs [s]
ontime3	1399.1727556363	Sum of GTIs [s]
ontime6	1758.878139548	Sum of GTIs [s]
ontime7	1759.0833395496	Sum of GTIs [s]
l2events	307329	Number of level 2 events

