

# V&V Summary Report

## L2 ASCDS Version : 8.1.2

Observation 222 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Dec 16 2009

See [axaff00222N001\\_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	1.051

## Comments

Off-axis ACIS effective area measurement using Cas A on chip S3. Only events from chip S3 were telemetered.

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Charge time for this ObsId remains at previous value of 1.051 ksec, although with the current processing the charge time would have been 1.043 ksec.

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Pileup throughout most of the 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

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	590090	Sequence number
obs_id	222	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=-2,1,0 Std Candle]	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	350.80548218021	Nominal RA
dec_nom	58.85341713852	Nominal Dec
roll_nom	160.35979892723	Nominal Roll
revision	3	Processing version of data
ontime	1043.6098948866	Sum of GTIs [s]
livetime	1030.3950780111	Livetime [s]
ontime4	1317.6982986331	Sum of GTIs [s]
ontime5	1758.5093090385	Sum of GTIs [s]
ontime6	1567.1288258582	Sum of GTIs [s]
ontime7	1043.6098948866	Sum of GTIs [s]
ontime8	1508.8738014624	Sum of GTIs [s]
ontime9	1505.5916515887	Sum of GTIs [s]
l2events	333394	Number of level 2 events

