

# V&V Summary Report

## L2 ASCDS Version : 8.1.2

Observation 221 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Dec 16 2009

See [axaff00221N001\\_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	1.071

## 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 1.071 ksec, although with the current processing the charge time would have been 1.059 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

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	590089	Sequence number
obs_id	221	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=-.3,0,0 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	350.74368088036	Nominal RA
dec_nom	58.838372826793	Nominal Dec
roll_nom	160.39211489153	Nominal Roll
revision	3	Processing version of data
ontime	1059.217237018	Sum of GTIs [s]
livetime	1045.8047905789	Livetime [s]
ontime4	1280.4612397552	Sum of GTIs [s]
ontime5	1750.4000016302	Sum of GTIs [s]
ontime6	1536.49681703	Sum of GTIs [s]
ontime7	1059.217237018	Sum of GTIs [s]
ontime8	1478.1595432758	Sum of GTIs [s]
ontime9	1507.3283149227	Sum of GTIs [s]
l2events	332413	Number of level 2 events

