

# V&V Summary Report

## L2 ASCDS Version : 8.1.1

Observation 1435 - L2 Version 4  
Chandra X-Ray Center

L2 Processing Date : Nov 24 2009

See axaff01435N001\_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	1.539

## Comments

ACIS response to Cas A on chip S0. Only S0 chip read out.

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Charge time for this ObsId remains at previous value of 1.539 ksec, although with the current processing the charge time would have been 1.535 ksec.

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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

effect.

seq_num	580385	Sequence number
obs_id	1435	Observation id
title	ACIS CHIP RESPONSE TO CAS A, JAN. 99	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	CAS A [Chip S0, T=110, Offsets=23,0,0]	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	351.0028245586	Nominal RA
dec_nom	59.194608635551	Nominal Dec
roll_nom	258.66504158616	Nominal Roll
revision	4	Processing version of data
ontime	1535.9738048241	Sum of GTIs [s]
livetime	1516.524379655	Livetime [s]
ontime4	1535.9738048241	Sum of GTIs [s]
ontime5	1536.0000014305	Sum of GTIs [s]
ontime6	1535.8506848216	Sum of GTIs [s]
ontime7	1536.0000014305	Sum of GTIs [s]
ontime8	1535.9327648208	Sum of GTIs [s]
ontime9	1535.8917248249	Sum of GTIs [s]
l2events	214047	Number of level 2 events

