

V&V Summary Report

L2 ASCDS Version : 8.1.1

Observation 1438 - L2 Version 4
Chandra X-Ray Center

L2 Processing Date : Nov 24 2009

See [axaff01438N001_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	2.336

Comments

ACIS response to Cas A on chip S4. Only chip S4 was read out.

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Pileup through most of observation.

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Charge time for this ObsId remains at previous value of 2.336 ksec, although with the current processing the charge time would have been 2.328 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

depend on the most accurate spectral response should not notice an effect.

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seq_num	580388	Sequence number
obs_id	1438	Observation id
title	ACIS CHIP RESPONSE TO CAS A, JAN. 99	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	CAS A [Chip S4, T=110, Offsets=-10,0,0]	Source name
dtycle	0	
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	350.78836276463	Nominal RA
dec_nom	58.638887234162	Nominal Dec
roll_nom	259.27497575665	Nominal Roll
revision	4	Processing version of data
ontime	2328.7203958854	Sum of GTIs [s]
livetime	2299.2327360456	Livetime [s]
ontime4	2850.5556517541	Sum of GTIs [s]
ontime5	2850.59669175	Sum of GTIs [s]
ontime6	2850.4325317517	Sum of GTIs [s]
ontime7	2850.6377317533	Sum of GTIs [s]
ontime8	2328.7203958854	Sum of GTIs [s]
ontime9	2850.473571755	Sum of GTIs [s]
l2events	483609	Number of level 2 events

