

V&V Summary Report

L2 ASCDS Version : 8.1.2

Observation 216 - L2 Version 4
Chandra X-Ray Center

L2 Processing Date : Dec 16 2009

See axaff00216N001_VV002_vvref2.pdf for the full report

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2010.10.01
V&V Edition	2
V&V Disposition and Status	OK
V&V Charge Time	2.851

Comments

Off-axis ACIS effective area measurement using Cas A on chip S5. Only chip S5 contains data.

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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 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.

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The guide star in slot 7 was manually excluded from the processing due

seq_num	590084	Sequence number
obs_id	216	Observation id
title	ACIS CHIP RESPONSE TO CAS A, JAN. 99	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	CAS A [Chip S5, T=100, Offsets=-19,0,0 Eff Area]	Source name
dtycycle	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	350.27780396099	Nominal RA
dec_nom	58.931189221775	Nominal Dec
roll_nom	159.58671235814	Nominal Roll
revision	4	Processing version of data
ontime	2848.0000026524	Sum of GTIs [s]
livetime	2811.9369117591	Livetime [s]
ontime4	2848.0000026524	Sum of GTIs [s]
ontime5	2848.0000026524	Sum of GTIs [s]
ontime6	2848.0000026524	Sum of GTIs [s]
ontime7	2848.0000026524	Sum of GTIs [s]
ontime8	2848.0000026524	Sum of GTIs [s]
ontime9	2848.0000026524	Sum of GTIs [s]
l2events	475252	Number of level 2 events

