

V&V Summary Report

L2 ASCDS Version : 8.1.2

Observation 1267 - L2 Version 4
Chandra X-Ray Center

L2 Processing Date : Dec 14 2009

See axaff01267N001_VV001_vvref2.pdf for the full report

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2010.03.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	18

Comments

Off-axis effective area measurement on chip S5. Repeat of obsid 167.

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Charge time remains at previous value of 18 ksec, although with the current processing the charge time would have been 13 ksec.

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Elevated count rate during last 6 ksec of observation due to a high radiation environment.

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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

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

seq_num	580217	Sequence number
obs_id	1267	Observation id
title	ACIS CHIP RESPONSE TO A CONTINUUM SOURCE	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	G21.5-0.9 [Chip S5, T=100, Offsets=-19,0,0]	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	278.336589	Observer's specified target RA
dec_targ	-10.880885	Observer's specified target Dec
ra_nom	278.346252766	Nominal RA
dec_nom	-10.906816532391	Nominal Dec
roll_nom	261.22214449966	Nominal Roll
revision	4	Processing version of data
ontime	13003.712174363	Sum of GTIs [s]
livetime	12839.051340916	Livetime [s]
ontime2	12997.189164095	Sum of GTIs [s]
ontime3	12997.148173951	Sum of GTIs [s]
ontime6	13003.506974362	Sum of GTIs [s]
ontime7	13003.712174363	Sum of GTIs [s]
ontime8	13000.348064229	Sum of GTIs [s]
ontime9	13000.307024233	Sum of GTIs [s]
l2events	246269	Number of level 2 events

