

V&V Summary Report

L2 ASCDS Version : 8.1.2

Observation 164 - L2 Version 4
Chandra X-Ray Center

L2 Processing Date : Dec 14 2009

See [axaff00164N001_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	9.75

Comments

Off-axis effective area measurements in chip S1.

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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.

seq_num	590032	Sequence number
obs_id	164	Observation id
title	ACIS CHIP RESPONSE TO A CONTINUUM SOURCE	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	G21.5-0.9 [Chip S1, T=100, Offsets=15,0,0]	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	278.431768	Observer's specified target RA
dec_targ	-10.321994	Observer's specified target Dec
ra_nom	278.44113743103	Nominal RA
dec_nom	-10.348134248598	Nominal Dec
roll_nom	260.58083540972	Nominal Roll
revision	4	Processing version of data
ontime	9747.1180886626	Sum of GTIs [s]
livetime	9623.6942104141	Livetime [s]
ontime2	9753.6000090837	Sum of GTIs [s]
ontime3	9753.6000090837	Sum of GTIs [s]
ontime4	9753.6000090837	Sum of GTIs [s]
ontime5	9753.6000090837	Sum of GTIs [s]
ontime6	9753.6000090837	Sum of GTIs [s]
ontime7	9747.1180886626	Sum of GTIs [s]
l2events	241383	Number of level 2 events

