

# V&V Summary Report

## L2 ASCDS Version : 8.4.3

Observation 12864 - L2 Version 2  
Chandra X-Ray Center

L2 Processing Date : Feb 2 2012

See axaff12864N002\_VV001\_vvref2.pdf for the full report

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.02.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	16.009599045753

## Comments

Target position differs from requested coordinates by more than 3 arcsec.

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The data for this observation have been processed using the 'EDSER' sub-pixel event-repositioning algorithm of Li et al. (2004, ApJ, 610, 1204). Small-scale features should become sharper for sources near the aim point. The improvement will be less noticeable for off-axis sources where the size of the point-spread function is comparable to or larger than the size of an ACIS pixel. To take full advantage of the improvement, images should be binned on spatial scales smaller than the size of an ACIS pixel. Note that, at present, the point-spread function has not been calibrated for data to which the EDSEER algorithm has been applied. If dither was disabled for the observation, then the algorithm can introduce artificial aliasing effects on spatial scales smaller than a pixel. If you would prefer to use no sub-pixel adjustment or to apply a coordinate randomization, then use `acis_process_events` to reprocess the data with the parameter `pix_adj=NONE` or `RANDOMIZE`, respectively.

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The EXPOSURE (and LIVETIME) are 14519.86 s, which is 90.69% (DTCOR) of the ONTIME of 16009.60 s. The reason that DTCOR is about 0.91 instead of about 0.99 is that the frame time is only 0.4 s. Since the frame

transfer time is 0.04104 s, the fraction of the time spent in the static exposure is  $0.4 / (0.4 + 0.04104) = 0.906947$ .

seq_num	702497	Sequence number
obs_id	12864	Observation id
title	Chandra Survey of Hard X-ray Selected Merging AGN Hosts	Proposal t
observer	Dr. Richard Mushotzky	Principal investigator
object	IRAS 05589+2828	Source name
dtycycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	90.545	Observer's specified target RA [deg]
dec_targ	28.473	Observer's specified target Dec [deg]
ra_nom	90.54700466972	Nominal RA [deg]
dec_nom	28.468468116573	Nominal Dec [deg]
roll_nom	259.37367486391	Nominal Roll [deg]
revision	2	Processing version of data
ontime	16009.599045753	Sum of GTIs [s]
livetime	14519.861278572	Livetime [s]
ontime7	16009.599045753	Sum of GTIs [s]
l2events	40526	Number of level 2 events

