## V&V Summary Report L2 ASCDS Version : 8.4.3

## Observation 12820 - L2 Version 3 Chandra X-Ray Center

L2 Processing Date : Feb 3 2012

See axaff12820N003\_VV001\_vvref2.pdf for the full report

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.02.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.962971346736

## Comments

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 EDSER 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.

A spatial region of the original bias map for CCD = 0 suffered from anomalously high data values. Pixels in the event data that were bias-corrected by one of the original affected bias pixels may have an apparent energy shift. While the change in energy is expected to be small (~20 eV), it depends on many parameters that have not yet been fully explored for this bias anomaly. The bias map for CCD = 0 has been reconstructed for this processing to remove this anomaly using scaled data from a comparable bias map from another observation. The pixels affected by the anomaly are bounded by sky coords: (161.72959,30.86425),(161.72516,30.86185),(161.74058,30.84102),(161.7478 1,30.83963)

seq_num	702456	Sequence number
obs_id	12820	Observation id
title	A Systematic Chandra Survey of AGN in Major Mergers How many Binary AGN are out there?	Proposal title
observer	DR. Kevin Schawinski	Principal investigator
object	GZ_merger_AGN_10	Source name
dtycycle	0	
cycle	Р	events from which exps? Prim/Second/Both
ra_targ	161.796667	Observer's specified target RA [deg]
dec_targ	30.724361	Observer's specified target Dec [deg]
ra_nom	161.78938866226	Nominal RA [deg]
dec_nom	30.729591334259	Nominal Dec [deg]
roll_nom	122.39939735205	Nominal Roll [deg]
revision	3	Processing version of data
ontime	4962.9713483453	Sum of GTIs [s]
livetime	4900.12721679	Livetime [s]
ontime0	4962.8482283354	Sum of GTIs [s]
ontime1	4962.8892683387	Sum of GTIs [s]
ontime2	4962.930308342	Sum of GTIs [s]
ontime3	4962.9713483453	Sum of GTIs [s]
ontime6	4963.0534283519	Sum of GTIs [s]
ontime7	4963.0123883486	Sum of GTIs [s]
l2events	21574	Number of level 2 events

