

# V&V Summary Report

## L2 ASCDS Version : 8.4.3

Observation 12772 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Feb 10 2012

See [axaff12772N003\\_VV001\\_vvref2.pdf](#) for the full report

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.02.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	9.9438790217042

## 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.

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A spatial region of the original bias map for CCD = 3 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 = 3 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:  
(343.47932,-8.67313),(343.48148,-8.67223),(343.45659,-8.61425),(343.45443,-8.61515)

seq_num	702408	Sequence number
obs_id	12772	Observation id
title	X-ray Properties of 2MASS Selected BALQSOs	Proposal title
observer	Dr. Xinyu Dai	Principal investigator
object	SDSSJ225257.62-084141.2	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	343.24	Observer's specified target RA [deg]
dec_targ	-8.694806	Observer's specified target Dec [deg]
ra_nom	343.23602908678	Nominal RA [deg]
dec_nom	-8.6919868468683	Nominal Dec [deg]
roll_nom	112.94256064965	Nominal Roll [deg]
revision	3	Processing version of data
ontime	9943.8790131211	Sum of GTIs [s]
livetime	9813.9549132375	Livetime [s]
ontime2	9943.7148531079	Sum of GTIs [s]
ontime3	9943.7969331145	Sum of GTIs [s]
ontime6	9943.8379731178	Sum of GTIs [s]
ontime7	9943.8790131211	Sum of GTIs [s]
ontime8	9943.7558931112	Sum of GTIs [s]
l2events	61393	Number of level 2 events

