

V&V Summary Report

L2 ASCDS Version : 8.4.3

Observation 12539 - L2 Version 2
Chandra X-Ray Center

L2 Processing Date : Feb 7 2012

See axaff12539N002_VV001_vvref2.pdf for the full report

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.02.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	54.288

Comments

Zeroth order deliberately displaced in non-dispersion direction on the subarray

in order to reach lower energies with one arm of the meg and heg.

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Roll angle and time constraints met. ===== WARNING: there are no standard ciao tools for analysis of grating spectra from extended sources. The shape of an emission 'line' will be the shape of the zero order spatial structure convolved with the instrumental LSF. Grating extractions can be used, but need to be combined with custom spatial-spectral analysis, since wavelength is multi-valued at any particular diffraction angle. ===== WARNING::Zeroth order selected by pipeline tools is well-centered in the SNR but is not at the position of brightest emission. The user may want to select a region or source of interest, then use software tools such as CIAO to specify the coordinates of the zeroth order source of interest before running the tools to resolve the dispersed events. === 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 EDSE 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.

seq_num	501372	Sequence number
obs_id	12539	Observation id
title	Chandra Cycle 12 Spatial and Spectral Monitoring of SNR 1987A	Prop
observer	Prof. David Burrows	Principal investigator
object	SNR 1987A	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	83.866667	Observer's specified target RA [deg]
dec_targ	-69.26975	Observer's specified target Dec [deg]
ra_nom	83.871711257186	Nominal RA [deg]
dec_nom	-69.274265829564	Nominal Dec [deg]
roll_nom	259.99340553653	Nominal Roll [deg]
revision	2	Processing version of data
ontime	54288.0	Sum of GTIs [s]
livetime	52147.852147852	Livetime [s]
ontime4	54288.0	Sum of GTIs [s]
ontime5	54288.0	Sum of GTIs [s]
ontime6	54288.0	Sum of GTIs [s]
ontime7	54288.0	Sum of GTIs [s]
ontime8	54288.0	Sum of GTIs [s]
ontime9	54288.0	Sum of GTIs [s]
l2events	165573	Number of level 2 events

