

V&V Summary Report

L2 ASCDS Version : 10.6

Observation 21043 - L2 Version 2
Chandra X-Ray Center

L2 Processing Date : Mar 28 2018

See [axaff21043N002_VV001_vvref2.pdf](#) for the full report

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2018.03.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	29.523900828123

Comments

Roll and window constraints met.

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A spatial region of the original bias map for CCD = 9 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 = 9 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: (84.16505,-69.00785), (84.16696,-69.00521), (84.00483,-68.99006), (84.00032,-68.99246).

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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.

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WARNING: Zeroth order selected by pipeline tools is well-centered in the

supernova remnant but is not at the position(s) 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.

seq_num	503016	Sequence number
obs_id	21043	Observation id
title	High Resolution Spectroscopy of SN 1987A	Proposal title
observer	SANGWOOK PARK	Principal investigator
object	SN 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	83.876277668293	Nominal RA [deg]
dec_nom	-69.275477839355	Nominal Dec [deg]
roll_nom	255.16561095012	Nominal Roll [deg]
revision	2	Processing version of data
ontime	29523.900828123	Sum of GTIs [s]
livetime	28827.959959455	Livetime [s]
ontime4	29522.15980804	Sum of GTIs [s]
ontime5	29523.900828123	Sum of GTIs [s]
ontime6	29523.900828123	Sum of GTIs [s]
ontime7	29523.900828123	Sum of GTIs [s]
ontime8	29522.159817934	Sum of GTIs [s]
ontime9	29523.900828123	Sum of GTIs [s]
l2events	196483	Number of level 2 events

