

V&V Summary Report

L2 ASCDS Version : 8.4.5

Observation 121 - L2 Version 4
Chandra X-Ray Center

L2 Processing Date : Oct 11 2012

See axaff00121N002_VV001_vvref2.pdf for the full report

V&V Scientist	David Huenemoerder
V&V Date (YYYY-MM-DD)	2012.10.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	21.744

Comments

Standard software processing technique using the tool `tgdetect` failed to determine an accurate position for the zeroth order for this observation. The source is extended and asymmetric. For this processing the zeroth order was selected to be at same position as in `TGCat` (sky coordinates `x=4055.5`, `y=4049.49`). The extraction is done just on part of the brightest feature in the SSE for demonstration only. The spectral data supplied in this processing are only energy-calibrated for the particular zeroth order position selected. For grating analysis of localized X-ray emission within the extended emission, the investigator will need to extract one or more dispersed spectra using user-defined zeroth order positions for all positions of interest.

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It should be noted that the emission knot that has been selected as the zeroth order source is filamentary and curved, so the energy assignments to the events should take the spatial information into account. **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.

seq_num	500008	Sequence number
obs_id	121	Observation id
title	HIGH RESOLUTION SPECTRA OF EXTRAGALACTIC SUPERNOVA REMNANTS	Propos
observer	Prof Claude Canizares	Principal investigator
object	N132D	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	81.25875	Observer's specified target RA [deg]
dec_targ	-69.649722	Observer's specified target Dec [deg]
ra_nom	81.251756737283	Nominal RA [deg]
dec_nom	-69.645737700891	Nominal Dec [deg]
roll_nom	144.32406225607	Nominal Roll [deg]
revision	4	Processing version of data
ontime	21740.800020233	Sum of GTIs [s]
livetime	21465.504919638	Livetime [s]
ontime4	21740.800020233	Sum of GTIs [s]
ontime5	21740.800020233	Sum of GTIs [s]
ontime6	21740.800020233	Sum of GTIs [s]
ontime7	21740.800020233	Sum of GTIs [s]
ontime8	21740.800020233	Sum of GTIs [s]
ontime9	21740.800020233	Sum of GTIs [s]
l2events	336521	Number of level 2 events

