

# V&V Summary Report

## L2 ASCDS Version : 8.4.5

Observation 810 - L2 Version 5  
Chandra X-Ray Center

L2 Processing Date : Aug 26 2012

See [axaff00810N002\\_VV001\\_vvref2.pdf](#) for the full report

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.08.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	151.067

## Comments

Roll angle of 210 degrees. Because observer specified target coordinates only to nearest sec in ra and nearest arcmin in dec, source is not at the best position for spectral extraction. The zeroth order of the source is not at the center of the HRC-S detector in the cross-dispersion direction. This placement may affect the quality of spectral extraction of the source data. However, the background spectrum in this standard processing, which is the combination of the background on either side of the source spectrum, will definitely be affected. The effective area is not identical in the background region above and below the spectral extraction region, because one of these background regions includes only portions of the dither-pattern distribution for some events, not full coverage, as well as some off-detector area. The bowtie shape of the extraction region implies the issues will be greater at longer wavelengths. The user is advised to use exposure-corrected data for analysis, and narrower extraction regions for both the background and for the source extraction region. A spike in the count rate up to 200 ct/s during the last 10 ksec is due to a high radiation environment. The dead time factor (DTF) reflects the radiation enhancement.

seq_num	700115	Sequence number
obs_id	810	Observation id
title	MAPPING HIGH-VELOCITY SHOCKS ALONG THE JETS OF NGC 4258	Proposal t
observer	Dr. Gerald Cecil	Principal investigator
object	NGC 4258	Source name
ra_targ	184.754167	Observer's specified target RA [deg]
dec_targ	47.3	Observer's specified target Dec [deg]
ra_nom	184.74765436533	Nominal RA [deg]
dec_nom	47.297588314665	Nominal Dec [deg]
roll_nom	211.76382757395	Nominal Roll [deg]
revision	5	Processing version of data
ontime	151123.1867931	[s]
livetime	150198.32823256	Ontime multiplied by DTCOR
l2events	7023808	Number of level 2 events

