

V&V Summary Report

L2 ASCDS Version : 7.6.10

Observation 671 - L2 Version 4
Chandra X-Ray Center

L2 Processing Date : Aug 27 2007

See axaff00671N002_VV001_vvref2.pdf for the full report

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2007.08.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	39.95

Comments

Zeroth order severely piled up. Standard data processing software did not correctly locate the zeroth order due to pileup. Manual intervention was used to input the correct sky coordinates (x=4095.83, y=4169.76) into the *src1a.fits file table. These corrected coordinates were determined using a software tool developed by CXC called findzero, which is expected to be released in CIAO (currently in ISIS). The tool calculates the point of intersection of the readout streak and the meg arm (preferred position), or the readout streak and the heg arm. The zeroth order source position determined by the standard pipeline processing using the tool tgdetect was not used in this processing. The newly determined zeroth order coordinates have been placed in the *src1a.fits file, replacing the coordinates determined by tgdetect. Note that these corrected coordinates of the zeroth order cannot be reproduced by running tgdetect on the data.=====

The guide star in slot 3 was removed from the aspect solution due to poor data quality. The aspect solution is not expected to be degraded by removing one guide star from the solution.=====

Focal plane temperature is warmer than -118.7 C degrees during the first approximately 3 ksec of this observation. The ACIS spectral response calibration for the front-illuminated chips is less accurate at these warmer temperatures than it is at -119.7 C. The back-illuminatd chips are not affected at the focal plane temperatures recorded for this observation. Users whose science objectives depend on the most accurate spectral response (i.e.: fitting line-rich spectra) may notice an effect. Users whose science objectives do not depend on the most accurate spectral response should not notice an effect.

seq_num	400038
obs_id	671
title	HIGH RESOLUTION SPECTROSCOPY OF THE ACCRETION DISK CORONA SOURCE 4U 1822-37
observer	PROF. STEVEN KAHN
object	4U 1822-37
dtcycle	0
cycle	P
ra_targ	276.444583
dec_targ	-37.10525
ra_nom	276.4449473195
dec_nom	-37.115172876645
roll_nom	282.10414806767
revision	4
ontime	39948.759076968
lifetime	39442.90383528
ontime4	39948.759076983
ontime5	39948.759047061
ontime6	39952.000037208
ontime7	39948.759076968
ontime8	39945.518266276
ontime9	39939.036186263
l2events	652338

