

V&V Summary Report

L2 ASCDS Version : 8.4.5

Observation 1906 - L2 Version 6
Chandra X-Ray Center

L2 Processing Date : Oct 22 2012

See axaff01906N003_VV001_vvref2.pdf for the full report

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.10.24
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.131

Comments

Phased constrained observation. Standard data processing software did not correctly locate the zeroth order because a spatial exclusion window was used to reduce the count rate of the zeroth order, and because the zeroth order is piled up in spite of the exclusion window. Only 1 in 10 events were recorded for the zeroth order. Manual intervention was used to input the correct sky coordinates ($x=4083.34$, $y=4124.81$) 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. 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. === Spectral arms are clearly seen in the image of bad pixels, implying the dispersed spectral arms are piled up.

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The fid light in slot 2 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this fid

light from the solution.

seq_num	400119	Sequence number
obs_id	1906	Observation id
title	PHASE RESOLVED SPECTROSCOPY OF THE X-RAY P-CYGNI PROFILES FROM CIRCINUS X-1	Proposal title
observer	Prof. William Brandt	Principal investigator
object	CIR X-1	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	230.170833	Observer's specified target RA [deg]
dec_targ	-57.166667	Observer's specified target Dec [deg]
ra_nom	230.16694538601	Nominal RA [deg]
dec_nom	-57.170585855348	Nominal Dec [deg]
roll_nom	264.48154256943	Nominal Roll [deg]
revision	6	Processing version of data
ontime	8131.4999813735	Sum of GTIs [s]
livetime	7882.6507604439	Livetime [s]
ontime5	8131.4999813735	Sum of GTIs [s]
ontime6	8131.4999813735	Sum of GTIs [s]
ontime7	8131.4999813735	Sum of GTIs [s]
ontime8	8131.4999813735	Sum of GTIs [s]
l2events	1602918	Number of level 2 events

