

# V&V Summary Report

## L2 ASCDS Version : 10.4

Observation 17697 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Aug 4 2015

See [axaff17697N003\\_VV001\\_vvref2.pdf](#) for the full report

V&V Scientist	David Huenemoerder
V&V Date (YYYY-MM-DD)	2015.08.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	24.712915

## Comments

**WARNING:** this is a difficult observation to analyze and requires special methods to get a good extraction and calibration!

The aim intentionally placed the mean source position (zeroth order) off the detector. Hence the sky x,y event coordinates are mapped to the center of the detectors, and do not intersect the source. For proper extraction and generation of responses, we have used the celestial position of the source, and a very wide mask which encloses the events. Downstream generation of responses should also use that position.

Only HEG negative and MEG positive orders are present.

The CC-mode gain corrections are not accurate when the source position on the detector is not known; hence, the order-sorting with the default tables can clip the data; reprocessing with 'flat' order-sorting tables was used (in 'tg\_resolve\_events'). This accepts more background, however; background was high during this observation.

Flux calibration in parts of the spectrum which dither on/off the array will require a custom mask1 file, particularly the MEG+1 order below about 4A, since the ACIS frame-store mask over the first ~10 CCD rows

is transparent, but uncalibrated. (the msk1 file is applied by ciao program mkgrmf).

Comments for Obs 0

Fid in slot 0 radial offset > 0.400000 arcsec

Fid in slot 1 radial offset > 0.400000 arcsec

seq_num	401696	Sequence number
obs_id	17697	Observation id
title	Detecting Super-Eddington Driven Winds in V404 Cyg	Proposal title
observer	Dr. Ashley King	Principal investigator
object	v404 Cyg	Source name
ra_targ	306.015833	Observer's specified target RA [deg]
dec_targ	33.867222	Observer's specified target Dec [deg]
ra_nom	306.00929497946	Nominal RA [deg]
dec_nom	33.866757927168	Nominal Dec [deg]
roll_nom	145.92753679278	Nominal Roll [deg]
revision	3	Processing version of data
ontime	24712.914555788	Sum of GTIs [s]
livetime	24616.379733304	Livetime [s]
ontime4	25855.465189099	Sum of GTIs [s]
ontime5	25970.682631254	Sum of GTIs [s]
ontime6	24664.765723944	Sum of GTIs [s]
ontime7	24712.914555788	Sum of GTIs [s]
ontime8	25058.738193154	Sum of GTIs [s]
ontime9	25818.991877675	Sum of GTIs [s]
l2events	4306065	Number of level 2 events

