

# V&V Summary Report

## L2 ASCDS Version : 10.1.1

Observation 16501 - L2 Version 4  
Chandra X-Ray Center

L2 Processing Date : Dec 8 2014

See axaff16501N004\_VV001\_vvref2.pdf for the full report

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2014.12.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.1664001216888

## Comments

The presence of the optically bright Venus on the aspect camera CCD significantly degraded the star tracking and fiducial light registration capabilities of the system. As only one fiducial light was successfully tracked, the aspect solution may have an uncompensated offset in roll. As a reduced number of stars were available for tracking, the image reconstruction is degraded and the astrometric accuracy may be reduced.

=====

The guide star in slot 3 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this star from the solution.

=====

This is a moving target. Users will need to run sso\_freeze or similar software to position the events in the reference frame of the target.

=====

Window preference met.

=====

These data have been reprocessed with new aspect alignment calibration files that correct small mean offsets (up to 0.4 arcsecs) and improve overall astrometric accuracy. The new calibration was determined using data from the time period being reprocessed and was performed using

seq_num	100092	Sequence number
obs_id	16501	Observation id
title	Venus at Solar Maximum	Proposal title
observer	Dr. Peter Predehl	Principal investigator
object	Venus	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	273.21626	Observer's specified target RA [deg]
dec_targ	-27.20616	Observer's specified target Dec [deg]
ra_nom	273.22040208932	Nominal RA [deg]
dec_nom	-27.235174847173	Nominal Dec [deg]
roll_nom	267.9689876854	Nominal Roll [deg]
revision	4	Processing version of data
ontime	8166.4001216888	Sum of GTIs [s]
livetime	7962.1704496552	Livetime [s]
ontime1	8166.4001216888	Sum of GTIs [s]
ontime3	8166.4001216888	Sum of GTIs [s]
l2events	5519	Number of level 2 events

