

# V&V Summary Report

## L2 ASCDS Version : 10.2.2

Observation 15662 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Dec 11 2014

See axaff15662N003\_VV001\_vvref2.pdf for the full report

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2015.11.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.0639115446806

## Comments

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 cross-correlation of X-ray sources with radio and optical counterparts.

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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 guide star from the solution.

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Joint Proposal: CXO-HST

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Gain and CTI correction are not well calibrated on CCD\_ID 5 (ACIS-S1). Default order sorting can clip some regions, particularly longward of 30A (first order). User-specified custom processing parameters may be required in tg\_resolve\_events (osipfile=none, osort\_lo, osort\_hi ~0.5) though this can allow more zeroth order background at short wavelengths.

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The source's zeroth order falls very close to the gap between the CCD

chips. Any suggestion of source variability should consider this possibility. Dithering over the chip boundary can give a false indication of variability.

seq_num	702927	Sequence number
obs_id	15662	Observation id
title	Mapping the AGN Broad Line Region by Reverberation	Proposal title
observer	Prof. Bradley Peterson	Principal investigator
object	NGC 5548	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	214.497917	Observer's specified target RA [deg]
dec_targ	25.136778	Observer's specified target Dec [deg]
ra_nom	214.51385644367	Nominal RA [deg]
dec_nom	25.151978578854	Nominal Dec [deg]
roll_nom	233.89463608029	Nominal Roll [deg]
revision	3	Processing version of data
ontime	5063.9115446806	Sum of GTIs [s]
livetime	4864.2814346044	Livetime [s]
ontime5	5063.8705046773	Sum of GTIs [s]
ontime6	5063.829464674	Sum of GTIs [s]
ontime7	5063.9115446806	Sum of GTIs [s]
ontime8	5063.7884246707	Sum of GTIs [s]
l2events	16158	Number of level 2 events

