

# V&V Summary Report

## L2 ASCDS Version : 10.2.2

Observation 16220 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Dec 11 2014

See axaff16220N003\_VV001\_vvref2.pdf for the full report

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2015.10.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	50.0325

## 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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Zeroth order is piled up. The zeroth order sky position was determined using a software tool developed by CXC called findzero, which is available in CIAO as part of the tgdetect2 tool. The tool calculates the point of intersection of the readout streak on the ACIS CCD and the meg dispersed spectral arm, rather than using a centroid position of the source. The findzero results are more accurate than source centroid in this case.

seq_num	703008	Sequence number
obs_id	16220	Observation id
title	Unifying X-ray winds in radio galaxies with Chandra HETG	Proposal
observer	Dr. Francesco Tombesi	Principal investigator
object	3C 390.3	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	280.5375	Observer's specified target RA [deg]
dec_targ	79.771417	Observer's specified target Dec [deg]
ra_nom	280.51161432753	Nominal RA [deg]
dec_nom	79.76989366122	Nominal Dec [deg]
roll_nom	166.76690908481	Nominal Roll [deg]
revision	3	Processing version of data
ontime	50032.5	Sum of GTIs [s]
livetime	49224.431728741	Livetime [s]
ontime4	50032.5	Sum of GTIs [s]
ontime5	50032.5	Sum of GTIs [s]
ontime6	50032.5	Sum of GTIs [s]
ontime7	50032.5	Sum of GTIs [s]
ontime8	50032.5	Sum of GTIs [s]
ontime9	50032.5	Sum of GTIs [s]
l2events	391058	Number of level 2 events

