

# V&V Summary Report

## L2 ASCDS Version : 10.4.2.1

Observation 16630 - L2 Version 4  
Chandra X-Ray Center

L2 Processing Date : Nov 4 2015

See axaff16630N004\_VV001\_vvref2.pdf for the full report

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2015.11.30
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	31.4175

## 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 stop time for the observation was manually set to Chandra MET of 521068998.41 sec to exclude a SIM translation that resulted from a commanding error.

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Zeroth order 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	703022	Sequence number
obs_id	16630	Observation id
title	A Warm Absorber Study of Mk 766	Proposal title
observer	Prof. Claude Canizares	Principal investigator
object	Mkn 766	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	184.610417	Observer's specified target RA [deg]
dec_targ	29.812778	Observer's specified target Dec [deg]
ra_nom	184.61261727538	Nominal RA [deg]
dec_nom	29.810431840747	Nominal Dec [deg]
roll_nom	252.1555260022	Nominal Roll [deg]
revision	4	Processing version of data
ontime	31417.5	Sum of GTIs [s]
livetime	30910.080124673	Livetime [s]
ontime4	31417.5	Sum of GTIs [s]
ontime5	31417.5	Sum of GTIs [s]
ontime6	31417.5	Sum of GTIs [s]
ontime7	31417.5	Sum of GTIs [s]
ontime8	31417.5	Sum of GTIs [s]
ontime9	31417.5	Sum of GTIs [s]
l2events	252498	Number of level 2 events

