

V&V Summary Report

L2 ASCDS Version : 10

Observation 15477 - L2 Version 3
Chandra X-Ray Center

L2 Processing Date : Dec 3 2014

See axaff15477N003_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	14.646464089036

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 piled up and cratered. Also, dispersed spectra are apparent in the level 1 bad events image, meaning they are likely piled. 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	790253	Sequence number
obs_id	15477	Observation id
title	AO-14 Calibration Observations of Mkn421	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	MKN421	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	166.113333	Observer's specified target RA [deg]
dec_targ	38.208806	Observer's specified target Dec [deg]
ra_nom	166.11640623249	Nominal RA [deg]
dec_nom	38.20722884424	Nominal Dec [deg]
roll_nom	264.65227949264	Nominal Roll [deg]
revision	3	Processing version of data
ontime	14646.464089036	Sum of GTIs [s]
livetime	14409.91099022	Livetime [s]
ontime4	14646.505129039	Sum of GTIs [s]
ontime5	14646.423049033	Sum of GTIs [s]
ontime6	14646.382009029	Sum of GTIs [s]
ontime7	14646.464089036	Sum of GTIs [s]
ontime8	14646.340969026	Sum of GTIs [s]
ontime9	14646.299929023	Sum of GTIs [s]
l2events	478789	Number of level 2 events

