

# V&V Summary Report

## L2 ASCDS Version : 10.5.2

Observation 19863 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Feb 5 2017

See [axaff19863N001\\_VV001\\_vvref2.pdf](#) for the full report

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2017.02.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	59.088547832251

## Comments

Large amplitude dither used

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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 or leg dispersed spectral arm, rather than using a centroid position of the source. The findzero results are more accurate than source centroid in this case. Faint grating spectra can be seen in an image of bad events. This is probably due to pileup in the spectrum, causing migration to bad grades. This should be considered in analysis.

seq_num	790303	Sequence number
obs_id	19863	Observation id
title	AO-18 Big Dither Observation of Mkn421	Proposal title
observer	CXC Calibration	Principal investigator
object	MKN421	Source name
dtcycle	0	&#160
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	166.12528169307	Nominal RA [deg]
dec_nom	38.189285642429	Nominal Dec [deg]
roll_nom	124.21586346305	Nominal Roll [deg]
revision	1	Processing version of data
ontime	59088.547832251	Sum of GTIs [s]
livetime	56963.298933846	Livetime [s]
ontime5	59088.506792307	Sum of GTIs [s]
ontime6	59088.465752244	Sum of GTIs [s]
ontime7	59088.547832251	Sum of GTIs [s]
ontime8	59088.4247123	Sum of GTIs [s]
l2events	1857413	Number of level 2 events

