V&V Summary Report
L2 ASCDS Version : 10.6.3

Observation 20723 - L2 Version 1
Chandra X-Ray Center

L2 Processing Date : Jun 17 2018

See axaff20723N001_VV001_vvref2.pdf for the full report

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2018.06.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	54.775601187348

Comments

```
Custom dither parameters.

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.
===
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.
```

seq_num	790321	Sequence number
obs_id	20723	Observation id
title	AO-19 Big Dither Observation of Mkn421	Proposal title
observer	CXC Calibration	Principal investigator
object	MKN421	Source name
dtycycle	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	166.12909115076	Nominal RA [deg]
dec_nom	38.223747544142	Nominal Dec [deg]
roll_nom	245.14687965029	Nominal Roll [deg]
revision	1	Processing version of data
ontime	54775.601187348	Sum of GTIs [s]
livetime	52805.476851016	Livetime [s]
ontime5	54775.594190598	Sum of GTIs [s]
ontime6	54775.553150535	Sum of GTIs [s]
ontime7	54775.601187348	Sum of GTIs [s]
ontime8	54775.512110591	Sum of GTIs [s]
ontime9	54775.471070528	Sum of GTIs [s]
l2events	871315	Number of level 2 events