V&V Summary Report
L2 ASCDS Version : 8.4.5

Observation 11964 - L2 Version 3
Chandra X-Ray Center

L2 Processing Date : Jul 20 2012

See axaff11964N003_VV001_vvref2.pdf for the full report

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.07.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	19.770486053646

Comments

```
Used flat order-sorting in tg_resolve_events, since there is no 'osip'
table for ACIS-I.
===
pset grt_lev15 osipfile=none===
pset grt_lev15 osort_lo=0.3===
pset grt_lev15 osort_hi=0.3===
===
```
Zeroth order piled up. Standard data processing software did not
correctly locate the zeroth order due to pileup. Manual intervention was
used to input the correct sky coordinates (x=4269.94, y=4307.81) into
the *src1a.fits file table. These corrected coordinates were determined
using a software tool developed by CXC called findzero, which is
expected to be released in CIAO (currently in ISIS). The tool calculates
the point of intersection of the readout streak and the leg arm. The
zeroth order source position determined by the standard pipeline
processing using the tool tgdetect was not used in this processing. The
newly determined zeroth order coordinates have been placed in the
*src1a.fits file, replacing the coordinates determined by tgdetect. Note
that these corrected coordinates of the zeroth order cannot be
reproduced by running tgdetect on the data.

seq_num	790213	Sequence number
obs_id	11964	Observation id
title	AO-11 Calibration Observations of MKN 421	Proposal title
observer	Dr. 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	166.14382741422	Nominal RA [deg]
dec_nom	38.180182454966	Nominal Dec [deg]
roll_nom	127.45285799885	Nominal Roll [deg]
revision	3	Processing version of data
ontime	19770.486057222	Sum of GTIs [s]
livetime	19512.170102064	Livetime [s]
ontime0	19770.403977215	Sum of GTIs [s]
ontime1	19770.445027053	Sum of GTIs [s]
ontime2	19770.486057222	Sum of GTIs [s]
ontime3	19770.52710706	Sum of GTIs [s]
ontime6	19770.362947047	Sum of GTIs [s]
l2events	376724	Number of level 2 events