V&V Summary Report
L2 ASCDS Version : 10.2.1

Observation 15075 - L2 Version 2
Chandra X-Ray Center

L2 Processing Date : Dec 10 2014

See axaff15075N002_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	29.034797253907

Comments

```
Zeroth order moderately 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.
====
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.
```

seq_num	702882	Sequence number
obs_id	15075	Observation id
title	A High-Resolution View of the Warm Absorber and Iron Line in Mrk 1040	Proposal title
observer	Mr Andrew Lobban	Principal investigator
object	Markarian 1040	Source name
dtycycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	37.060417	Observer's specified target RA [deg]
dec_targ	31.311667	Observer's specified target Dec [deg]
ra_nom	37.063925468646	Nominal RA [deg]
dec_nom	31.311169238181	Nominal Dec [deg]
roll_nom	293.15479900872	Nominal Roll [deg]
revision	2	Processing version of data
ontime	29034.797253907	Sum of GTIs [s]
livetime	28565.860094594	Livetime [s]
ontime4	29032.297273755	Sum of GTIs [s]
ontime5	29034.756213903	Sum of GTIs [s]
ontime6	29034.7151739	Sum of GTIs [s]
ontime7	29034.797253907	Sum of GTIs [s]
ontime8	29034.674133897	Sum of GTIs [s]
ontime9	29034.633093894	Sum of GTIs [s]
l2events	266804	Number of level 2 events