

# V&V Summary Report

## L2 ASCDS Version : 10.2.1

Observation 16571 - L2 Version 2  
Chandra X-Ray Center

L2 Processing Date : Dec 10 2014

See [axaff16571N002-VV001\\_vvref2.pdf](#) for the full report

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2015.10.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	91.035

## 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. 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	702882	Sequence number
obs_id	16571	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
dtcycle	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	37.063943613195	Nominal RA [deg]
dec_nom	31.311410684201	Nominal Dec [deg]
roll_nom	297.5947415656	Nominal Roll [deg]
revision	2	Processing version of data
ontime	91035.0	Sum of GTIs [s]
livetime	89564.705789755	Livetime [s]
ontime4	91029.918049276	Sum of GTIs [s]
ontime5	91035.0	Sum of GTIs [s]
ontime6	91035.0	Sum of GTIs [s]
ontime7	91035.0	Sum of GTIs [s]
ontime8	91035.0	Sum of GTIs [s]
ontime9	91035.0	Sum of GTIs [s]
l2events	659792	Number of level 2 events

