

# V&V Summary Report

## L2 ASCDS Version : 10.4.3.1

Observation 18619 - L2 Version 2  
Chandra X-Ray Center

L2 Processing Date : Mar 18 2016

See axaff18619N002\_VV001\_vvref2.pdf for the full report

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2016.03.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	32.032571957469

## Comments

Phase constraint met.== 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.

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The guide star in slot 6 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this guide star from the solution.

seq_num	401811	Sequence number
obs_id	18619	Observation id
title	Ionization and Reflection Physics in SMC X-1	Proposal title
observer	Prof. Claude Canizares	Principal investigator
object	SMC X-1	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	19.27125	Observer's specified target RA [deg]
dec_targ	-73.443333	Observer's specified target Dec [deg]
ra_nom	19.27228966957	Nominal RA [deg]
dec_nom	-73.446033811385	Nominal Dec [deg]
roll_nom	203.88621157657	Nominal Roll [deg]
revision	2	Processing version of data
ontime	32032.571957469	Sum of GTIs [s]
livetime	31277.496397382	Livetime [s]
ontime4	32032.612997413	Sum of GTIs [s]
ontime5	32032.530917406	Sum of GTIs [s]
ontime6	32032.489877462	Sum of GTIs [s]
ontime7	32032.571957469	Sum of GTIs [s]
ontime8	32032.448837399	Sum of GTIs [s]
ontime9	32032.407797456	Sum of GTIs [s]
l2events	609178	Number of level 2 events

