

# V&V Summary Report

## L2 ASCDS Version : 10.7.1

Observation 20921 - L2 Version 2  
Chandra X-Ray Center

L2 Processing Date : Mar 6 2019

See axaff20921N002\_VV001\_vvref2.pdf for the full report

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2019.03.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.058866157174

## Comments

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 slot from the solution.

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A spatial region of the original bias map for CCD = 1 suffered from anomalously high data values. Pixels in the event data that were bias-corrected by one of the original affected bias pixels may have an apparent energy shift. While the change in energy is expected to be small (~20 eV), it depends on many parameters that have not yet been fully explored for this bias anomaly. The bias map for CCD = 1 has been reconstructed for this processing to remove this anomaly using scaled data from a comparable bias map from another observation. The pixels affected by the anomaly are bounded by sky coords: (239.38283,66.30183), (239.40656,66.30512), (239.35654,66.36367), (239.33276,66.36037).

seq_num	801762	Sequence number
obs_id	20921	Observation id
title	Shock structure, the electron-ion equilibration timescale and the disintegrating cool core in A2146	Proposal title
observer	Helen Russell	Principal investigator
object	Abell 2146	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	239.06125	Observer's specified target RA [deg]
dec_targ	66.346917	Observer's specified target Dec [deg]
ra_nom	239.07161246978	Nominal RA [deg]
dec_nom	66.404036561767	Nominal Dec [deg]
roll_nom	109.19920388521	Nominal Roll [deg]
revision	2	Processing version of data
ontime	20058.866157174	Sum of GTIs [s]
livetime	19796.782303708	Livetime [s]
ontime0	20061.884116888	Sum of GTIs [s]
ontime1	20065.066157103	Sum of GTIs [s]
ontime2	20065.107197165	Sum of GTIs [s]
ontime3	20058.866157174	Sum of GTIs [s]
ontime6	20058.702056646	Sum of GTIs [s]
l2events	84494	Number of level 2 events

