

V&V Summary Report

L2 ASCDS Version : 10.7.1

Observation 22140 - L2 Version 2
Chandra X-Ray Center

L2 Processing Date : Mar 5 2019

See [axaff22140N002_VV001_vvref2.pdf](#) for the full report

V&V Scientist	David Huenemoerder
V&V Date (YYYY-MM-DD)	2019.03.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	21.407773770928

Comments

Note: zeroth order intentionally off the array. projection of celestial source position was used for grating coordinates. Only MEG positive and HEG negative orders are present. Extraction of higher order spectra will require careful review of PHA extraction regions.

Comments for Obi 0

The ACIS focal plane temperature is warmer than -114.0 C degrees during the interval 667349434.69 - 667360112.19 (MET s) of this observation. This temperature is the upper limit of the verified ACIS calibration for the front-illuminated chips. The focal plane temperature is warmer than -112.0 C during the interval 667349434.69 - 667353827.69 (MET s) of this observation. This temperature is the upper limit of the verified ACIS calibration for the back-illuminated chips. The ACIS spectral response calibration is less accurate at these warmer temperatures than it is at -115.0 C. Users whose science objectives depend on the most accurate spectral response (e.g., fitting line-rich spectra) may notice an effect. Users whose science objectives do not depend on the most accurate spectral response should not notice an effect.

Charge time: time per chip varies due to saturation; duration of

observation was as planned.

Variation in Chips > 15% threshold.

Low Chip 6, ONTIME=8758.954868 seconds

High Chip 7, ONTIME=21407.773771 seconds

Chip 9, ONTIME=14190.671564 seconds is less than 80% of scheduled
time=25000.000000 seconds

Chip 8, ONTIME=11750.286413 seconds is less than 80% of scheduled
time=25000.000000 seconds

Chip 6, ONTIME=8758.954868 seconds is less than 80% of scheduled
time=25000.000000 seconds

Chip 5, ONTIME=12538.876301 seconds is less than 80% of scheduled
time=25000.000000 seconds

Chip 4, ONTIME=15997.129064 seconds is less than 80% of scheduled
time=25000.000000 seconds

seq_num	402095	Sequence number
obs_id	22140	Observation id
title	Probing the disc-jet coupling in the neutron star binary Sco X-1	P
observer	Sara Motta	Principal investigator
object	Sco X-1	Source name
ra_targ	244.979583	Observer's specified target RA [deg]
dec_targ	-15.640278	Observer's specified target Dec [deg]
ra_nom	244.97623650912	Nominal RA [deg]
dec_nom	-15.637551384056	Nominal Dec [deg]
roll_nom	80.055722759781	Nominal Roll [deg]
revision	2	Processing version of data
ontime	21407.773770928	Sum of GTIs [s]
livetime	21324.149654636	Livetime [s]
ontime4	15997.129064441	Sum of GTIs [s]
ontime5	12538.87630105	Sum of GTIs [s]
ontime6	8758.9548676014	Sum of GTIs [s]
ontime7	21407.773770928	Sum of GTIs [s]
ontime8	11750.286413193	Sum of GTIs [s]
ontime9	14190.671563745	Sum of GTIs [s]
l2events	4256610	Number of level 2 events

