

V&V Summary Report

L2 ASCDS Version : 8.4.5

Observation 3416 - L2 Version 3
Chandra X-Ray Center

L2 Processing Date : Sep 29 2012

See axaff03416N002_VV001_vvref2.pdf for the full report

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.10.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.512

Comments

This is an observation of a moving target. Event positions are in the reference from of Chandra, not of the comet. Users should run a software tool such as `sso_freeze` to reposition the events in the reference from of the comet, then run normal data analysis tools such as `tgdetect` and spectral extraction. Streak on chip 8 is not fully removed with pipeline processing. Additional analysis procedures by the user may improve the uniformity of chip 8.

===

Energy filter allowed only events with energies 0.1 to 2.0 keV to be recorded.

===

Standard software processing technique using the tool `tgdetect` failed to determine an accurate position for the zeroth order for this observation. The target is moving through the field of view during the observation. The processing software defaulted to the coordinates supplied by the user for the position of the zeroth order for the grating spectral extraction. Spectra products from this processing, which does not include `sso_freeze`, are not useful.

===

Gain and CTI correction are not well calibrated on CCD_ID 5 (ACIS-S1).

Default order sorting can clip some regions, particularly longward of 30A (first order). User-specified custom processing parameters may be required in `tg_resolve_events` (`osipfile=None`, `osort_lo`, `osort_hi ~0.5`) though this can allow more zeroth order background at short wavelengths.

seq_num	100030	Sequence number
obs_id	3416	Observation id
title	ACIS-S LOW ENERGY SPECTROSCOPY AND PHOTOMETRIC IMAGING OF CHARGE EXCHANGE X-RAY EMISSION FROM COMET C/LINEAR WM1 (2000)	Proposal titl
observer	Dr. Carey Lisse	Principal investigator
object	C/LINEAR WM1 (2000)	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	333.25379	Observer's specified target RA [deg]
dec_targ	-51.91754	Observer's specified target Dec [deg]
ra_nom	333.24709480802	Nominal RA [deg]
dec_nom	-51.926351681538	Nominal Dec [deg]
roll_nom	254.92231212114	Nominal Roll [deg]
revision	3	Processing version of data
ontime	8508.8000079095	Sum of GTIs [s]
livetime	8401.0564588251	Livetime [s]
ontime2	8508.8000079095	Sum of GTIs [s]
ontime3	8508.8000079095	Sum of GTIs [s]
ontime5	8508.8000079095	Sum of GTIs [s]
ontime6	8508.8000079095	Sum of GTIs [s]
ontime7	8508.8000079095	Sum of GTIs [s]
ontime8	8502.318067506	Sum of GTIs [s]
l2events	16215	Number of level 2 events

