

V&V Summary Report

L2 ASCDS Version : 8.5.1.1

Observation 341 - L2 Version 5
Chandra X-Ray Center

L2 Processing Date : Jan 25 2013

See axaff00341N002_VV001_vvref2.pdf for the full report

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2013.01.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	0.843

Comments

This is an interleave observation, with alternating short and long observations. For the short observation (e1), the livetime is about 58s instead of 331s because the use of a 0.1 s frame time for the selection of chips and rows used during the observation is shorter than the time it takes to read out one frame of data. The frame time must be at least 0.7 s to avoid 'flushing' the detector before each frame of data is collected. The time required to flush the detector is specified on p. 120 of the ACIS Science Instrument Software User's Guide:

<http://acis.mit.edu/swuserA/swuser.pdf> Events that occur during such a flush are discarded onboard. The flush time is effectively 'dead time.' For this reason, most of the 331s of the shorter observation (e1) was spent flushing the detectors instead of collecting data. Had the frame time been 0.7 s or longer, there would have been about 331s of exposure instead of only about 58s. The second, longer exposure does not have this shortened livetime issue because the exposure read time is 0.4 s.
===

This observation was taken at a focal plane temperature of about -110 C. There is no CTI calibration for this temperature so none was applied.
===

The guide stars in slots 6 and 7 were not acquired for this observation.

seq_num	700013	Sequence number
obs_id	341	Observation id
title	STUDIES OF RADIO JETS AND THE NARROW LINE REGIONS	Proposal title
observer	Professor Andrew Wilson	Principal investigator
object	NGC 526A	Source name
dtcycle	0	
cycle	P	events are from which exps? P[primary] S[econdar
ra_targ	20.97633	Observer's specified target RA [deg]
dec_targ	-35.06561	Observer's specified target Dec [deg]
ra_nom	20.979139273631	Nominal RA [deg]
dec_nom	-35.070524284762	Nominal Dec [deg]
roll_nom	315.93176819384	Nominal Roll [deg]
revision	5	Processing version of data
ontime	331.2732097134	Sum of GTIs [s]
livetime	58.118106967264	Livetime [s]
ontime7	331.2732097134	Sum of GTIs [s]
l2events	160	Number of level 2 events

