

# V&V Reference Report

## L2 ASCDS Version : 8.1.1

Observation 1309 - L2 Version 5

Chandra X-Ray Center

L2 Processing Date : Nov 17 2009

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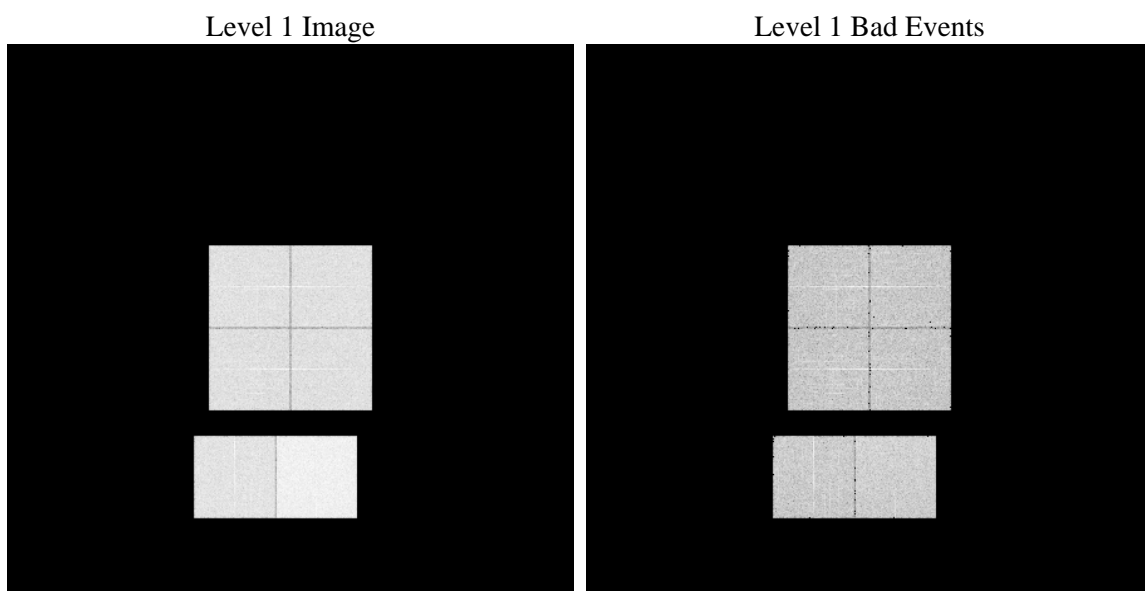
# 1 Front

seq_num	&#160	Sequence number
obs_id	1309	Observation id
title	ACIS-012367 diagnostics	Proposal title
observer	CHANDRA engineering request/realtime commanding	Principal investig
object	&#160	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	0.0	Observer's specified target RA
dec_targ	0.0	Observer's specified target Dec
ra_nom	119.99392070809	Nominal RA
dec_nom	-66.595051258057	Nominal Dec
roll_nom	122.89636874318	Nominal Roll
revision	5	Processing version of data
ontime	1200.0000011176	Sum of GTIs [s]
livetime	1184.8048785502	Livetime [s]
ontime0	645.79580545425	Sum of GTIs [s]
ontime1	640.02354612947	Sum of GTIs [s]
ontime2	602.08059532195	Sum of GTIs [s]
ontime3	609.3136658594	Sum of GTIs [s]
ontime6	688.76153813303	Sum of GTIs [s]
ontime7	1200.0000011176	Sum of GTIs [s]
l2events	407723	Number of level 2 events

## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



## 2.1.2 Parameters

obi_num	0	Obi number
ascdsver	8.1.1	ASCDS version number
caldsver	4.1.4	&#160
date	2009-11-17T10:13:37	Date and time of file creation
revision	5	Processing version of data

sched_exp_time	0	Scheduled observation exposure time
ontime	1200.0000011176	Sum of GTIs [s]
ontime0	645.79580545425	Sum of GTIs [s]
ontime1	640.02354612947	Sum of GTIs [s]
ontime2	602.08059532195	Sum of GTIs [s]
ontime3	609.3136658594	Sum of GTIs [s]
ontime6	688.76153813303	Sum of GTIs [s]
ontime7	1200.0000011176	Sum of GTIs [s]
l1events	658156	Number of level 1 events

## 2.1.3 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	98238	97517	94066	94494	106570	167271
rejected events	39174	38766	39255	38557	42427	48014
rejected %	39%	39%	41%	40%	39%	28%

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	32211	31773	26102	27293	23774	27795
	32%	32%	27%	28%	22%	16%
grade 1 events	144	151	111	120	108	63
	0%	0%	0%	0%	0%	0%
grade 2 events	30274	30493	33585	33297	43943	42472
	30%	31%	35%	35%	41%	25%
grade 3 events	3501	3422	2621	2925	2434	13067
	3%	3%	2%	3%	2%	7%
grade 4 events	3497	3429	2699	2840	2449	11700
	3%	3%	2%	3%	2%	6%
grade 5 events	899	834	867	829	863	2346
	0%	0%	0%	0%	0%	1%
grade 6 events	14621	14614	14198	14376	18097	56217
	14%	14%	15%	15%	16%	33%
grade 7 events	13091	12801	13883	12814	14902	13611
	13%	13%	14%	13%	13%	8%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-012367	ACIS-012367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	OVERRIDE	OVERRIDE
Data mode	GRADED	GRADED	On-chip summing requested	N	N
Observation mode	SECONDARY	SECONDARY	Subarray requested	NONE	NONE
Pointing RA	0	119.9939207080931	Alternating exposures requested	N	N
Pointing Dec	0	-66.5950512580569	Primary exposure time	3.2	3.2
Pointing Roll	122.889259	122.8963687431756			
SIM focus pos (mm)	-0.7809083437167272	-0.7809083437167272			
SIM defocus (mm)	0.001439854621705816	0.001439854621705816			
SIM translation stage pos (mm)	250.466033080201	250.466033080201			
SIM translation stage offset (mm)	-484.0584961716328	-484.0584961716328			
Observation start time	54052571.7	54052571.7			
Observation start date	1999-09-18T14:36:12	1999-09-18T14:36:11			
Observation end time	54054312.2854665	54054312.2854665			
Observation end date	1999-09-18T15:05:12	1999-09-18T15:05:12			
Read mode	TIMED	TIMED			

## 2.3 Star Slots

## 2.4 FID Slots

# A Summary

## A.1 Status

V&V Scientist	Craig Anderson
V&V Date (YYYY-MM-DD)	2010.06.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	36

## A.2 Comments

Charge time:

New charge time is less than existing charge time used in previously distributed version

NEW CHARGE TIME = 1.200000 ks, 1 Obis

EXISTING CHARGE TIME = 36.000000 ks, 1 Obis.

This is an engineering run. Ontime satisfies OBSCAT.

Focal plane temperature is warmer than -118.7 C degrees during the entire observation. This temperature is the upper limit of the verified ACIS calibration for the front-illuminated chips. The focal plane temperature is warmer than -116.7 degrees C for the entire 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 -119.7 C. Users whose science objectives depend on the most accurate spectral response (ie: 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.