

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 56981 - L2 Version 2  
Chandra X-Ray Center

L2 Processing Date : Jun 9 2012

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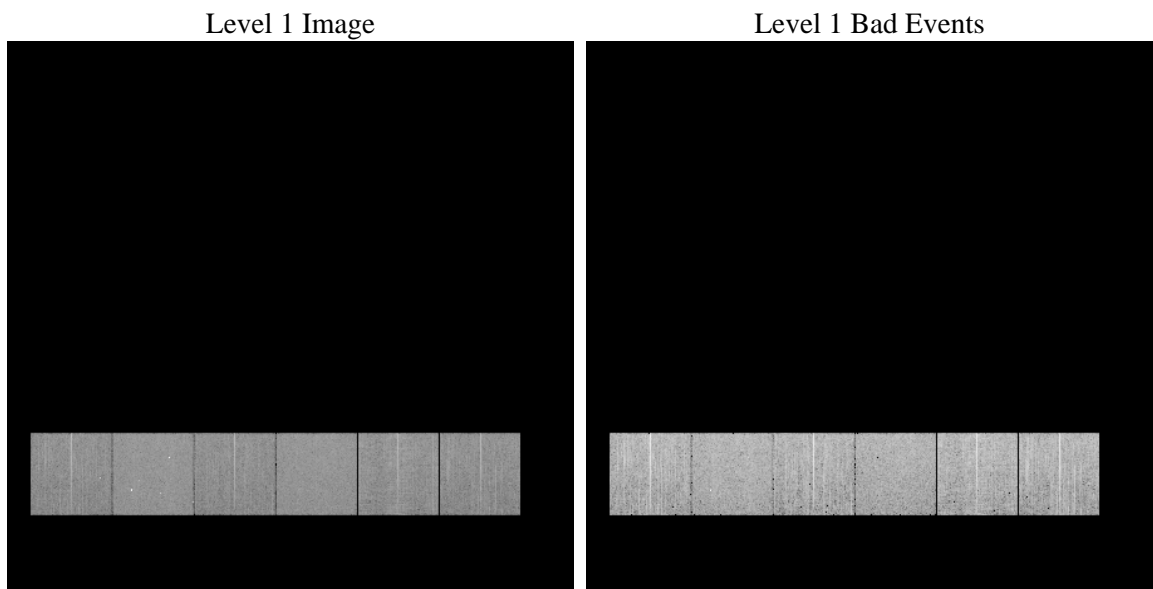
# 1 Front

seq_num	&#160	Sequence number
obs_id	56981	Observation id
title	ACIS-456789 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 [deg]
dec_targ	0.0	Observer's specified target Dec [deg]
ra_nom	164.93542275387	Nominal RA [deg]
dec_nom	49.415253915286	Nominal Dec [deg]
roll_nom	280.22825516933	Nominal Roll [deg]
revision	2	Processing version of data
ontime	4755.0962553024	Sum of GTIs [s]
livetime	4694.8843633426	Livetime [s]
ontime4	4754.9731352925	Sum of GTIs [s]
ontime5	4755.0552152991	Sum of GTIs [s]
ontime6	4751.7732149363	Sum of GTIs [s]
ontime7	4755.0962553024	Sum of GTIs [s]
ontime8	4754.9320952892	Sum of GTIs [s]
ontime9	4755.1372953057	Sum of GTIs [s]
l2events	297133	Number of level 2 events

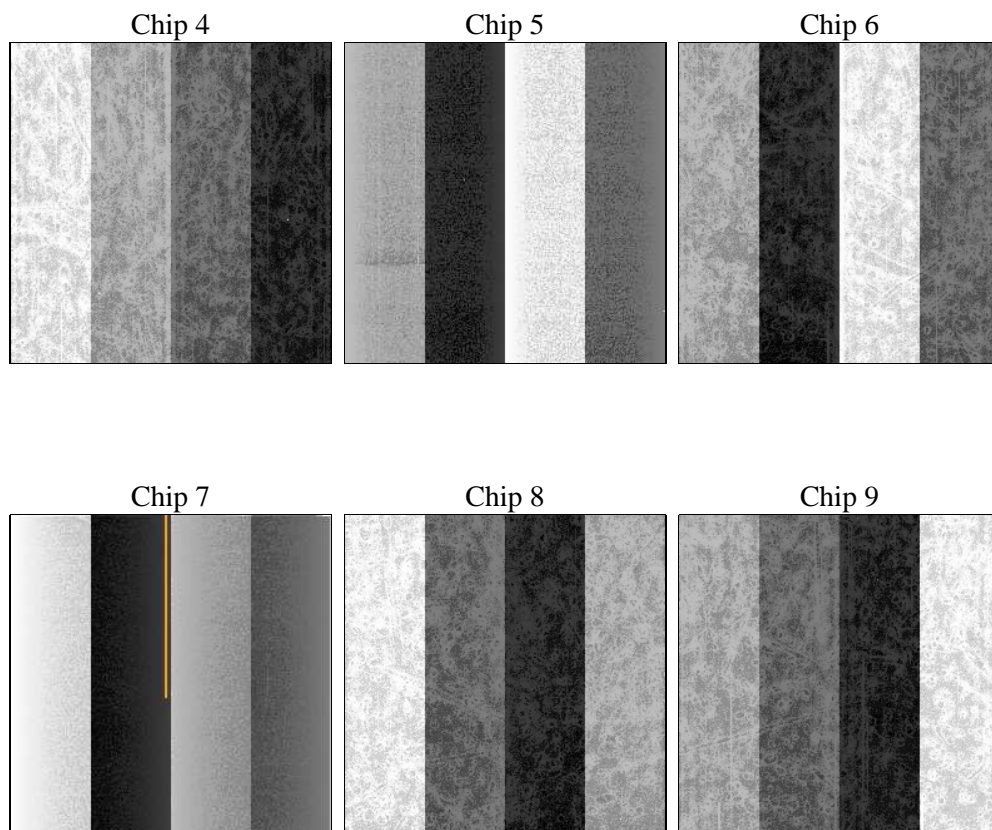
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	0.0	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	4755.0962553024	Sum of GTIs [s]
caldsver	4.4.10	&#160	ontime4	4754.9731352925	Sum of GTIs [s]
date	2012-06-10T00:44:47	Date and time of file creation	ontime5	4755.0552152991	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	4751.7732149363	Sum of GTIs [s]
			ontime7	4755.0962553024	Sum of GTIs [s]
			ontime8	4754.9320952892	Sum of GTIs [s]
			ontime9	4755.1372953057	Sum of GTIs [s]
			l1events	621756	Number of level 1 events

### 2.1.4 Events

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	95372	116391	94775	111083	107674	96461	grade 0 events	25316	12159	24923	12885	27356	24262
rejected events	51784	46464	48917	43782	53673	51909		26%	10%	26%	11%	25%	25%
rejected %	54%	39%	51%	39%	49%	53%	grade 1 events	252	281	184	88	199	174
								0%	0%	0%	0%	0%	0%
							grade 2 events	7360	24903	8397	14972	10438	8147
								7%	21%	8%	13%	9%	8%
							grade 3 events	3157	3344	3148	6663	4194	3119
								3%	2%	3%	5%	3%	3%
							grade 4 events	3114	3232	3027	6508	3950	2998
								3%	2%	3%	5%	3%	3%
							grade 5 events	2559	6125	2837	6885	3561	3104
								2%	5%	2%	6%	3%	3%
							grade 6 events	5840	28346	7742	28212	9705	7308
								6%	24%	8%	25%	9%	7%
							grade 7 events	47774	38001	44517	34870	48271	47349
								50%	32%	46%	31%	44%	49%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-456789	ACIS-456789	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	OVERRIDE	OVERRIDE
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	SECONDARY	SECONDARY	On-chip summing requested	N	N
[deg] Pointing RA	0	164.9354227538722	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	49.41525391528559	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	280.2282551693273	[s] Primary exposure time	3.2	3.2
[mm] SIM focus pos	-0.68282252473119	-0.68282252473119			
[mm] SIM defocus	0.8505140384245534	0.8505140384245534			
[mm] SIM translation stage pos	250.4635187649	250.4635187649			
[mm] SIM translation stage offset	-0.007542945905271381	-0.007542945905271381			
[s] Observation start time (MET)	363487549.734864	363487549.734864			
Observation start date	2009-07-09T00:45:50	2009-07-09T00:45:49			
[s] Observation end time (MET)	363492736.488654	363492736.488654			
Observation end date	2009-07-09T02:12:16	2009-07-09T02:12:16			
Read mode	TIMED	TIMED			

## 2.3 Star Slots

## 2.4 FID Slots

## **A Summary**

### **A.1 Status**

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.06.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.7550962553024

### **A.2 Comments**