

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 56291 - L2 Version 2  
Chandra X-Ray Center

L2 Processing Date : Jun 24 2012

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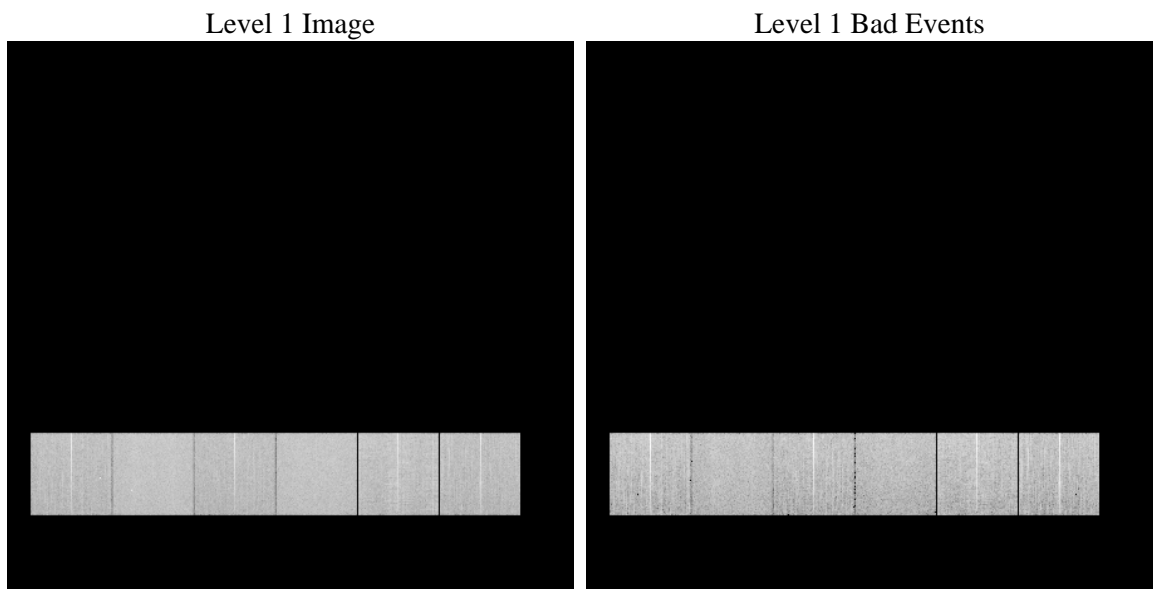
# 1 Front

seq_num	&#160	Sequence number
obs_id	56291	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	224.51815275149	Nominal RA [deg]
dec_nom	-37.975170710234	Nominal Dec [deg]
roll_nom	19.976438166496	Nominal Roll [deg]
revision	2	Processing version of data
ontime	8277.0651466846	Sum of GTIs [s]
livetime	8172.255963947	Livetime [s]
ontime4	8276.9420266747	Sum of GTIs [s]
ontime5	8277.0241066813	Sum of GTIs [s]
ontime6	8276.983066678	Sum of GTIs [s]
ontime7	8277.0651466846	Sum of GTIs [s]
ontime8	8276.9009866714	Sum of GTIs [s]
ontime9	8277.1061866879	Sum of GTIs [s]
l2events	429755	Number of level 2 events

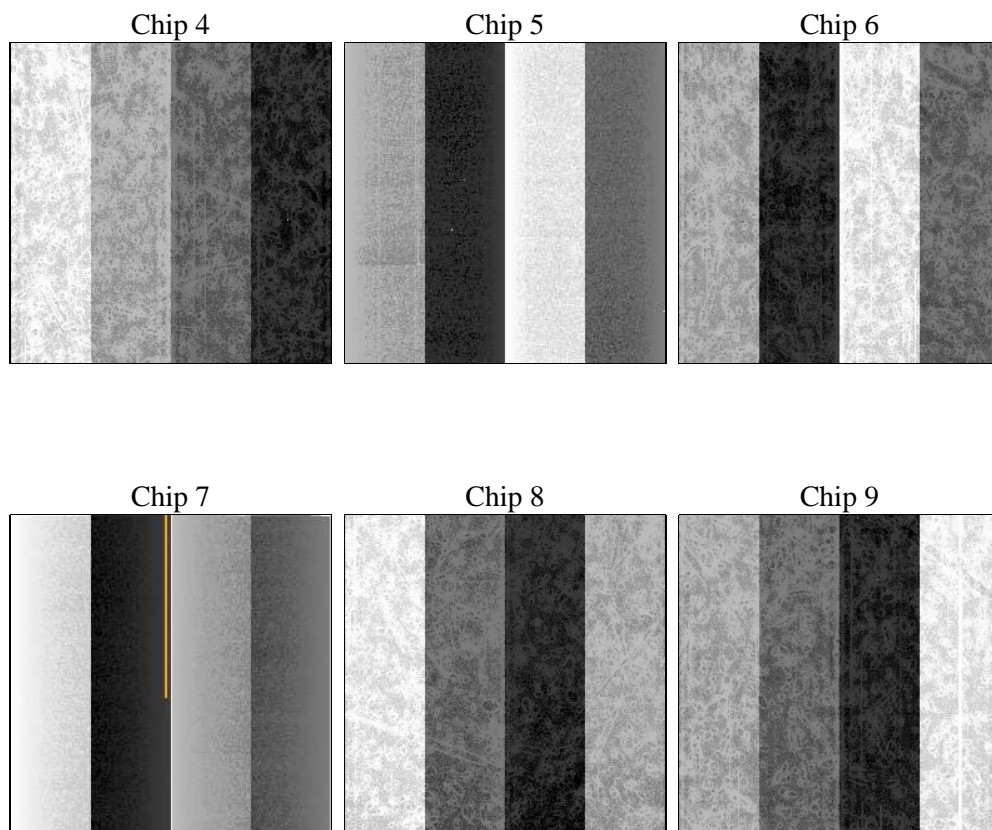
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	0.0	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	8277.0651466846	Sum of GTIs [s]
caldsver	4.4.10	&#160	ontime4	8276.9420266747	Sum of GTIs [s]
date	2012-06-25T00:12:29	Date and time of file creation	ontime5	8277.0241066813	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	8276.983066678	Sum of GTIs [s]
			ontime7	8277.0651466846	Sum of GTIs [s]
			ontime8	8276.9009866714	Sum of GTIs [s]
			ontime9	8277.1061866879	Sum of GTIs [s]
			l1events	909795	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	140031	169446	136637	165235	159694	138752	grade 0 events	35099	10908	33490	16892	38169	33756
rejected events	78218	70746	71462	67034	80230	75163		25%	6%	24%	10%	23%	24%
rejected %	55%	41%	52%	40%	50%	54%	grade 1 events	367	187	198	142	265	256
								0%	0%	0%	0%	0%	0%
							grade 2 events	9585	36452	12171	21437	15188	11167
								6%	21%	8%	12%	9%	8%
							grade 3 events	4400	3864	4262	8799	5923	4295
								3%	2%	3%	5%	3%	3%
							grade 4 events	4395	3677	4159	8732	5654	4218
								3%	2%	3%	5%	3%	3%
							grade 5 events	4138	8448	4078	10485	5438	4641
								2%	4%	2%	6%	3%	3%
							grade 6 events	8334	43799	11093	42341	14530	10153
								5%	25%	8%	25%	9%	7%
							grade 7 events	73713	62111	67186	56407	74527	70266
								52%	36%	49%	34%	46%	50%

## 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	NONE	UPDATED
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	224.5181527514916	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	-37.97517071023358	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	19.97643816649583	[s] Primary exposure time	3.2	3.2
[mm] SIM focus pos	-1.429586	-0.6828225247311905			
[mm] SIM defocus	0.1037507710433287	0.8505141146731063			
[mm] SIM translation stage pos	250.455976	250.466033080201			
[mm] SIM translation stage offset	0	-0.01005468664627074			
[s] Observation start time (MET)	388881308.965996	388881307.941			
Observation start date	2010-04-28T22:35:09	2010-04-28T22:35:07			
[s] Observation end time (MET)	388893377.316609	388893376.29161			
Observation end date	2010-04-29T01:56:17	2010-04-29T01:56:16			
Read mode	TIMED	TIMED			

## 2.3 Star Slots

## 2.4 FID Slots

## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.07.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.2770651466846

### A.2 Comments