

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 56037 - L2 Version 2  
Chandra X-Ray Center

L2 Processing Date : Jul 2 2012

## Contents

<b>1</b>	<b>Front</b>	<b>2</b>
<b>2</b>	<b>OBI</b>	<b>3</b>
2.1	OBI . . . . .	3
2.1.1	Images . . . . .	3
2.1.2	Bias . . . . .	3
2.1.3	Parameters . . . . .	4
2.1.4	Events . . . . .	4
2.2	Compared Parameters . . . . .	5
2.3	Star Slots . . . . .	6
2.4	FID Slots . . . . .	6
<b>A</b>	<b>Summary</b>	<b>7</b>
A.1	Status . . . . .	7
A.2	Comments . . . . .	7

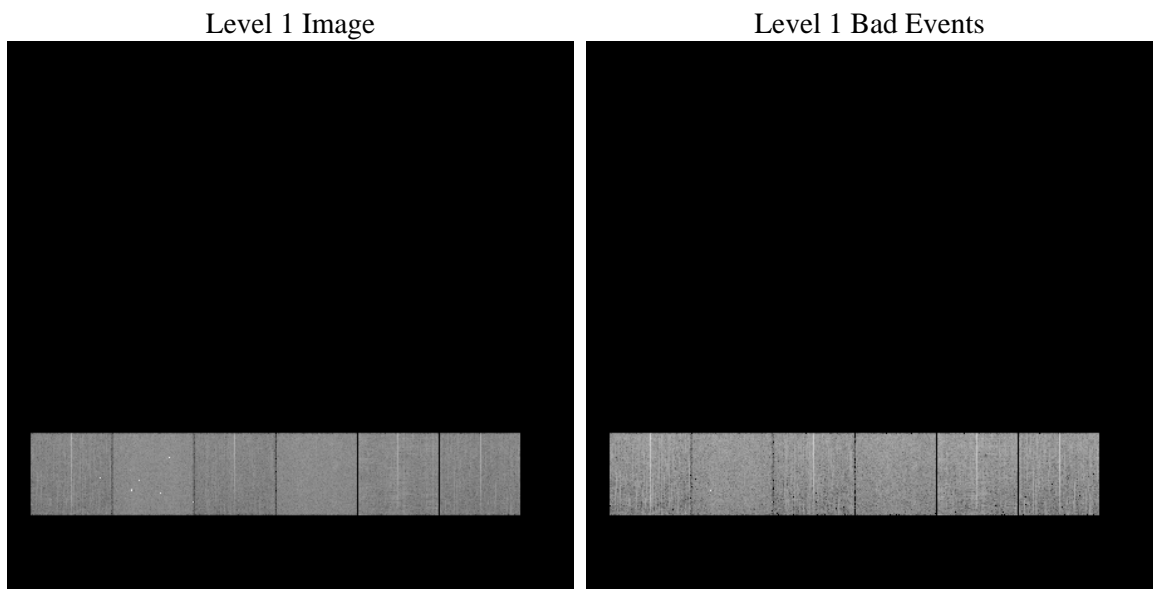
# 1 Front

seq_num	&#160	Sequence number
obs_id	56037	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	3.7702405037784	Nominal RA [deg]
dec_nom	11.500508524008	Nominal Dec [deg]
roll_nom	134.25648859714	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5843.199978292	Sum of GTIs [s]
livetime	5769.2098618142	Livetime [s]
ontime4	5843.199978292	Sum of GTIs [s]
ontime5	5843.199978292	Sum of GTIs [s]
ontime6	5843.199978292	Sum of GTIs [s]
ontime7	5843.199978292	Sum of GTIs [s]
ontime8	5843.199978292	Sum of GTIs [s]
ontime9	5843.199978292	Sum of GTIs [s]
l2events	281876	Number of level 2 events

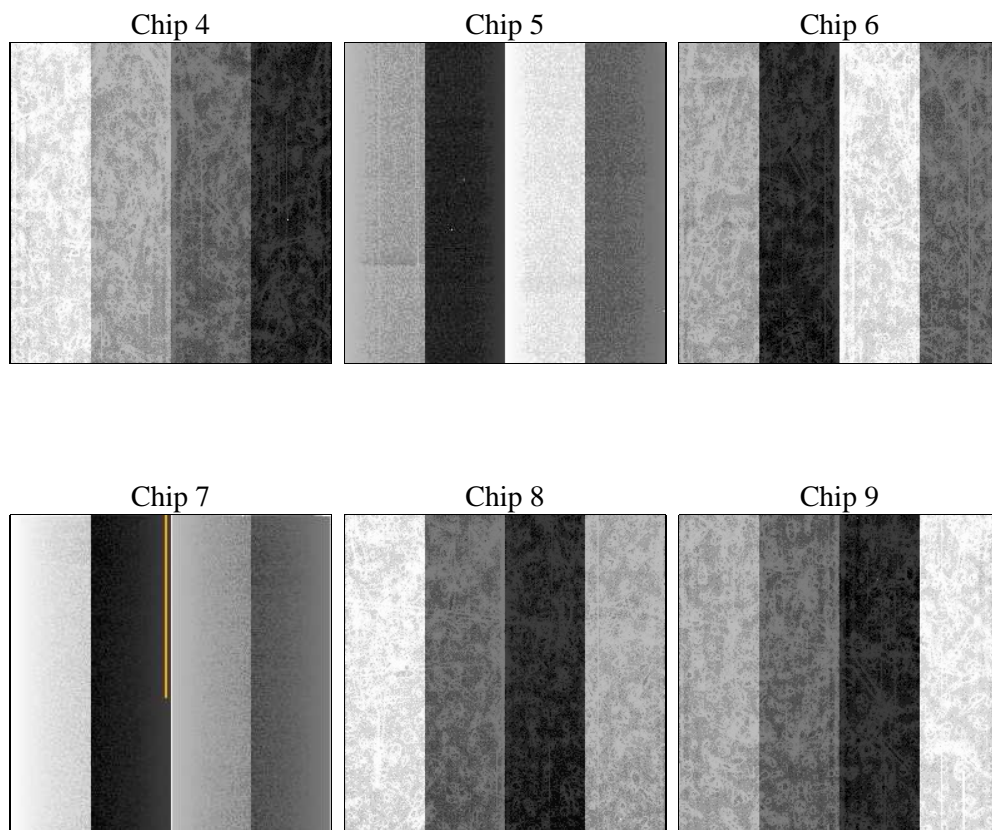
## 2 OBI

### 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	5843.199978292	Sum of GTIs [s]
caldsver	4.5.0	&#160	ontime4	5843.199978292	Sum of GTIs [s]
date	2012-07-02T20:30:33	Date and time of file creation	ontime5	5843.199978292	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	5843.199978292	Sum of GTIs [s]
			ontime7	5843.199978292	Sum of GTIs [s]
			ontime8	5843.199978292	Sum of GTIs [s]
			ontime9	5843.199978292	Sum of GTIs [s]
			l1events	615778	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	93407	121056	91414	112542	105971	91388	grade 0 events	24312	11498	21694	10959	24547	22125
rejected events	52036	49271	49002	47099	54447	49623		26%	9%	23%	9%	23%	24%
rejected %	55%	40%	53%	41%	51%	54%	grade 1 events	241	282	131	92	168	148
								0%	0%	0%	0%	0%	0%
							grade 2 events	6151	25715	7999	14264	10031	7313
								6%	21%	8%	12%	9%	8%
							grade 3 events	2809	2497	2704	5845	3777	2862
								3%	2%	2%	5%	3%	3%
							grade 4 events	2750	2446	2683	5740	3773	2750
								2%	2%	2%	5%	3%	3%
							grade 5 events	2682	6089	2820	7195	3717	3191
								2%	5%	3%	6%	3%	3%
							grade 6 events	5349	29629	7332	28635	9396	6715
								5%	24%	8%	25%	8%	7%
							grade 7 events	49113	42900	46051	39812	50562	46284
								52%	35%	50%	35%	47%	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	3.770240503778382	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	11.50050852400769	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	134.2564885971438	[s] Primary exposure time	3.2	3.2
[mm] SIM focus pos	-1.429586	-1.428180813131781			
[mm] SIM defocus	0.1037507710433287	0.1051558262725154			
[mm] SIM translation stage pos	250.455976	250.466033080201			
[mm] SIM translation stage offset	0	-0.01005468664627074			
[s] Observation start time (MET)	400305678.699382	400305677.67438			
Observation start date	2010-09-08T04:01:19	2010-09-08T04:01:17			
[s] Observation end time (MET)	400315243.999873	400315242.97487			
Observation end date	2010-09-08T06:40:44	2010-09-08T06:40:42			
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)	2012.07.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.843199978292

### A.2 Comments