

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 57388 - L2 Version 2  
Chandra X-Ray Center

L2 Processing Date : May 28 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

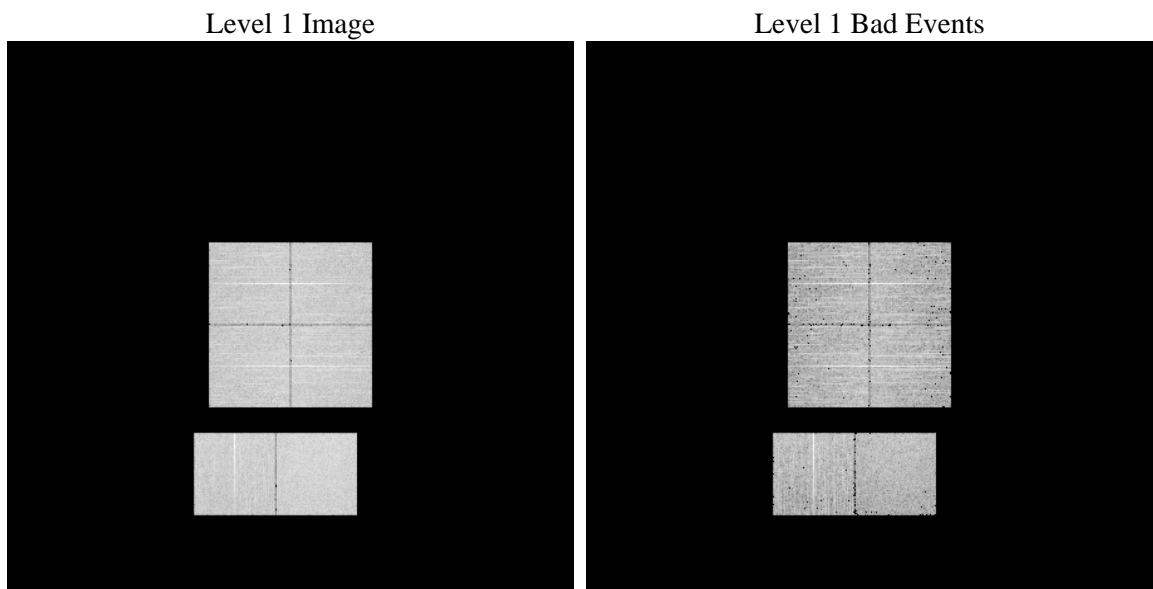
# 1 Front

seq_num	&#160	Sequence number
obs_id	57388	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 [deg]
dec_targ	0.0	Observer's specified target Dec [deg]
ra_nom	88.516770711586	Nominal RA [deg]
dec_nom	23.975710127102	Nominal Dec [deg]
roll_nom	269.43587182408	Nominal Roll [deg]
revision	2	Processing version of data
ontime	4355.1411076188	Sum of GTIs [s]
livetime	4299.993688563	Livetime [s]
ontime0	4355.1000676155	Sum of GTIs [s]
ontime1	4355.0590276122	Sum of GTIs [s]
ontime2	4355.0179876089	Sum of GTIs [s]
ontime3	4355.1821476221	Sum of GTIs [s]
ontime6	4354.9769476056	Sum of GTIs [s]
ontime7	4355.1411076188	Sum of GTIs [s]
l2events	278604	Number of level 2 events

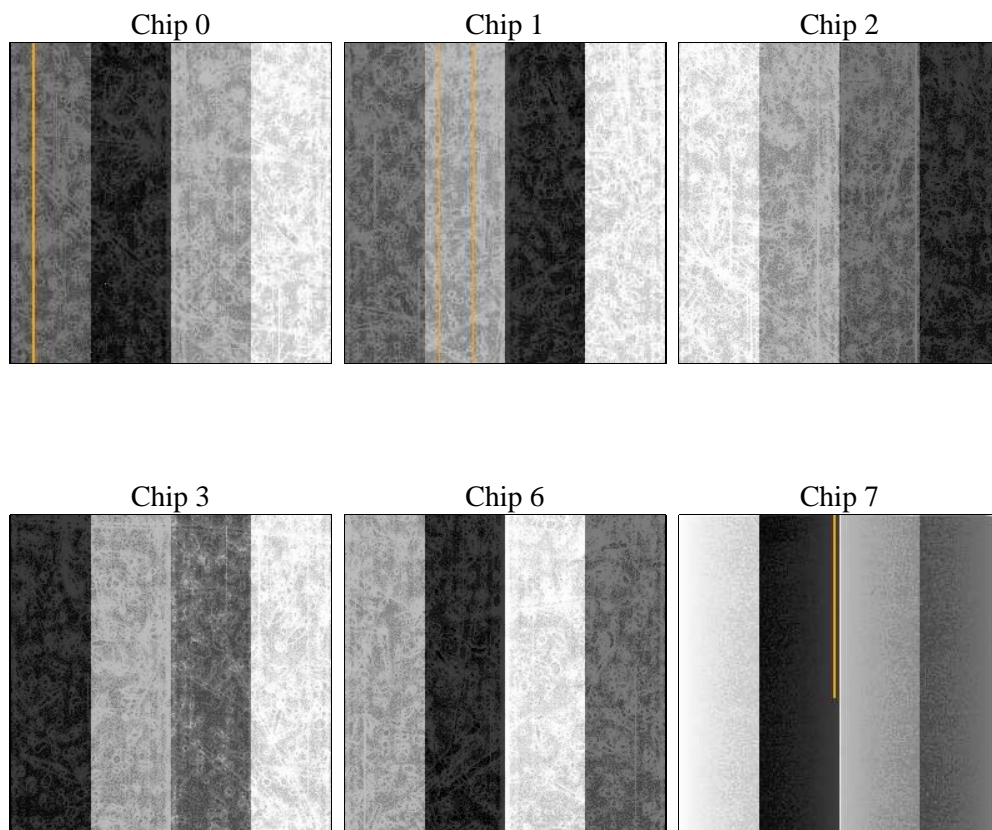
## 2 OBI

### 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	8.4.4	Processing system revision	ontime	4355.1411076188	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime0	4355.1000676155	Sum of GTIs [s]
date	2012-05-29T02:07:53	Date and time of file creation	ontime1	4355.0590276122	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	4355.0179876089	Sum of GTIs [s]
			ontime3	4355.1821476221	Sum of GTIs [s]
			ontime6	4354.9769476056	Sum of GTIs [s]
			ontime7	4355.1411076188	Sum of GTIs [s]
			l1events	531435	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	83173	82821	86313	88477	88230	102421	grade 0 events	24089	23874	24739	25050	24761	12838
rejected events	37982	37600	40874	42687	41231	36712		28%	28%	28%	28%	28%	12%
rejected %	45%	45%	47%	48%	46%	35%	grade 1 events	190	177	188	201	157	79
								0%	0%	0%	0%	0%	0%
							grade 2 events	8091	8478	7780	7858	8488	14365
								9%	10%	9%	8%	9%	14%
							grade 3 events	3058	3017	3123	3167	2960	6229
								3%	3%	3%	3%	3%	6%
							grade 4 events	2997	2963	3075	3171	3012	6095
								3%	3%	3%	3%	3%	5%
							grade 5 events	2217	2202	2026	2386	2379	6088
								2%	2%	2%	2%	2%	5%
							grade 6 events	6956	6889	6722	6544	7778	26182
								8%	8%	7%	7%	8%	25%
							grade 7 events	35575	35221	38660	40100	38695	30545
								42%	42%	44%	45%	43%	29%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	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	88.51677071158639	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	23.9757101271024	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	269.4358718240836	[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)	348175506.523131	348175505.49813			
Observation start date	2009-01-12T19:25:07	2009-01-12T19:25:05			
[s] Observation end time (MET)	348187794.223739	348187793.19874			
Observation end date	2009-01-12T22:49:54	2009-01-12T22:49:53			
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)	2012.06.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.3551411076188

### A.2 Comments