

# V&V Reference Report

## L2 ASCDS Version : 8.5.1

Observation 59743 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Dec 18 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

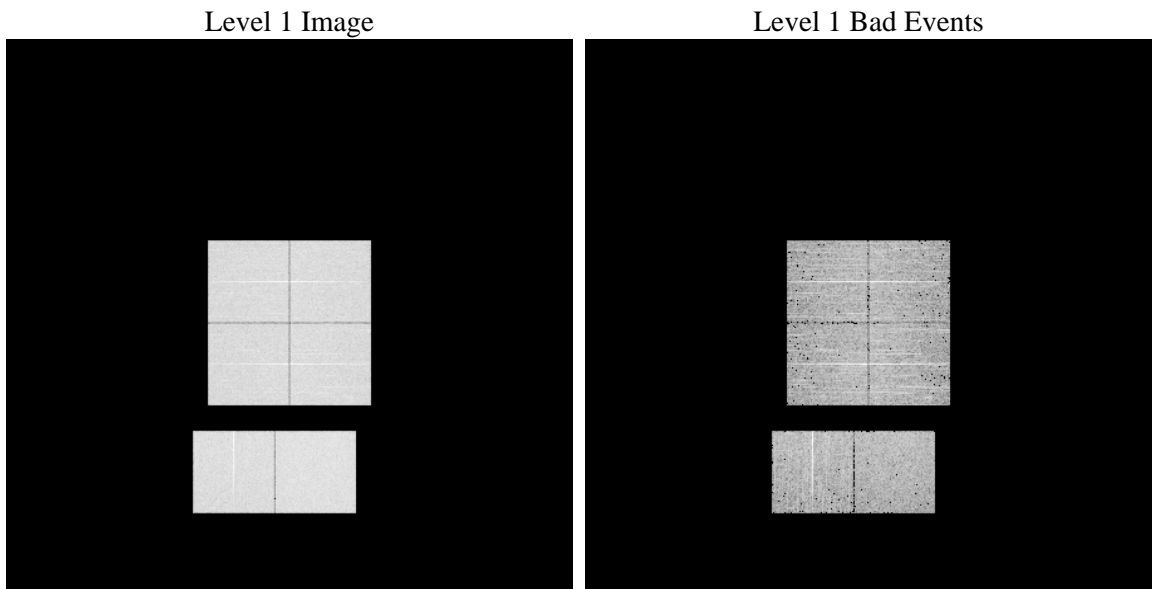
# 1 Front

seq_num	&#160	Sequence number
obs_id	59743	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	334.95840154582	Nominal RA [deg]
dec_nom	-47.003691816855	Nominal Dec [deg]
roll_nom	154.5422882771	Nominal Roll [deg]
revision	3	Processing version of data
ontime	5299.1999802589	Sum of GTIs [s]
livetime	5232.0983193138	Livetime [s]
ontime0	4767.1205258667	Sum of GTIs [s]
ontime1	4800.0915059447	Sum of GTIs [s]
ontime2	4589.4291960597	Sum of GTIs [s]
ontime3	4673.6942432821	Sum of GTIs [s]
ontime6	4975.1038101017	Sum of GTIs [s]
ontime7	5299.1999802589	Sum of GTIs [s]
l2events	725058	Number of level 2 events

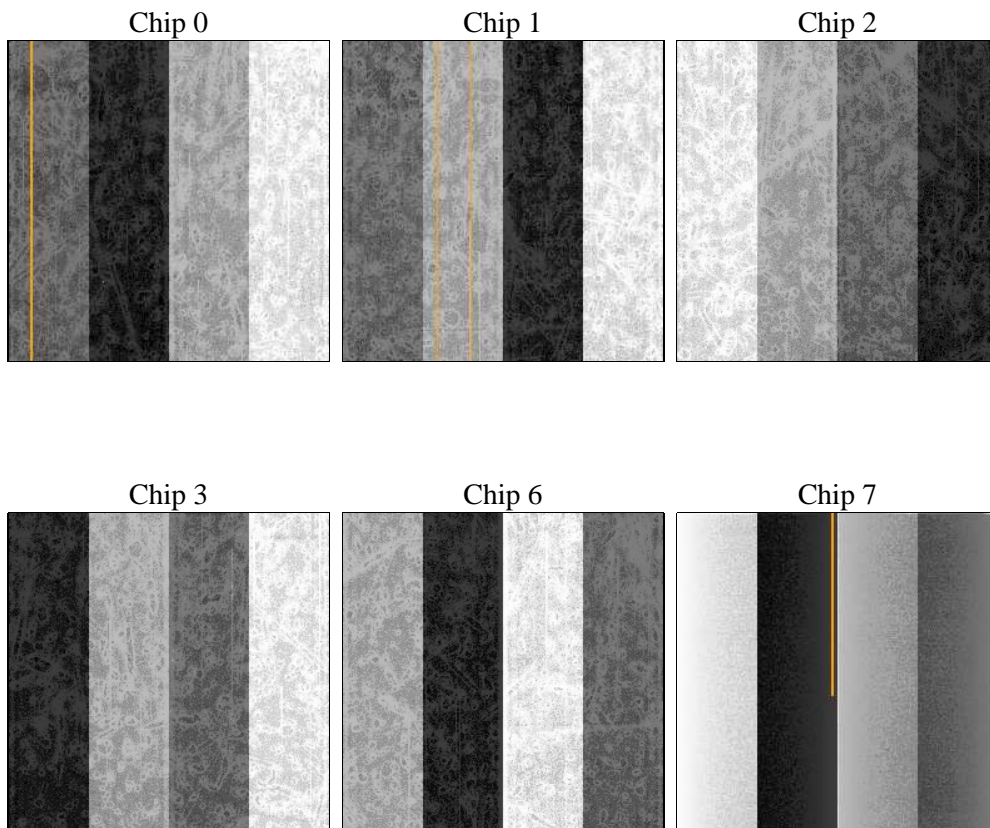
## 2 OBI

### 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	8.5.1	Processing system revision	ontime	5299.1999802589	Sum of GTIs [s]
caldsver	4.5.5	&#160	ontime0	4767.1205258667	Sum of GTIs [s]
date	2012-12-18T12:21:28	Date and time of file creation	ontime1	4800.0915059447	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	4589.4291960597	Sum of GTIs [s]
			ontime3	4673.6942432821	Sum of GTIs [s]
			ontime6	4975.1038101017	Sum of GTIs [s]
			ontime7	5299.1999802589	Sum of GTIs [s]
			l1events	964478	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	153642	153583	150849	155673	168174	182557	grade 0 events	66343	66170	65740	67155	71418	36208
rejected events	32890	32269	33083	35621	36135	32169		43%	43%	43%	43%	42%	19%
rejected %	21%	21%	21%	22%	21%	17%	grade 1 events	392	349	430	373	380	122
								0%	0%	0%	0%	0%	0%
							grade 2 events	20953	21622	19967	20403	22840	32945
								13%	14%	13%	13%	13%	18%
							grade 3 events	7841	7728	7681	7947	8325	15046
								5%	5%	5%	5%	4%	8%
							grade 4 events	7676	7897	7771	7934	8375	15017
								4%	5%	5%	5%	4%	8%
							grade 5 events	2068	2050	1869	2190	2392	5806
								1%	1%	1%	1%	1%	3%
							grade 6 events	17939	17964	16685	16697	21175	51259
								11%	11%	11%	10%	12%	28%
							grade 7 events	30430	29803	30706	32974	33269	26154
								19%	19%	20%	21%	19%	14%

## 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	On-chip summing requested	N	N
Observation mode	SECONDARY	SECONDARY	Subarray requested	NONE	NONE
[deg] Pointing RA	0	334.9584015458175	Alternating exposures requested	N	N
[deg] Pointing Dec	0	-47.00369181685461	[s] Primary exposure time	3.2	3.2
[deg] Pointing Roll	0.0	154.5422882770965			
[mm] SIM focus pos	-0.782348	-0.6828225247311905			
[mm] SIM defocus	0	0.8505141146731063			
[mm] SIM translation stage pos	-233.592463	250.466033080201			
[mm] SIM translation stage offset	0	-0.01005468664627074			
[s] Observation start time (MET)	227082602.165346	227082601.14035			
Observation start date	2005-03-13T06:30:02	2005-03-13T06:30:01			
[s] Observation end time (MET)	227096169.065961	227096168.04097			
Observation end date	2005-03-13T10:16:09	2005-03-13T10:16:08			
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)	2013.01.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.2991999802589

### A.2 Comments