

# V&V Reference Report

## L2 ASCDS Version : 8.5.1.1

Observation 53863 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Mar 14 2013

## 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

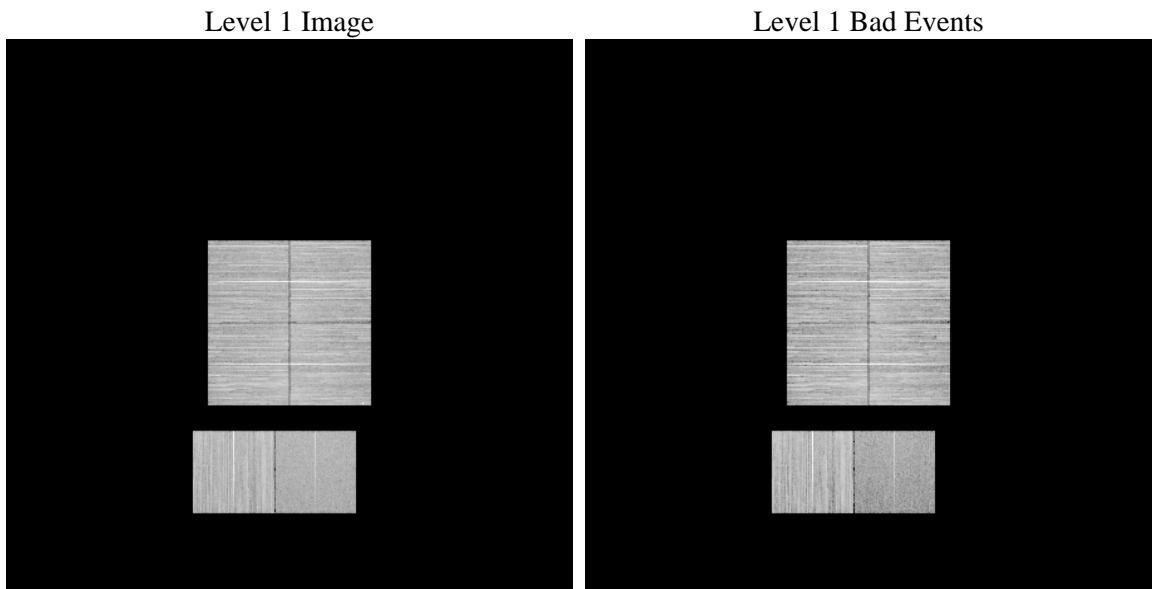
# 1 Front

seq_num	&#160	Sequence number
obs_id	53863	Observation id
title	ACIS-012367 diagnostics	Proposal title
observer	CHANDRA engineering request/realtime commanding	Principal investig
object	&#160	Source name
dtycycle	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	153.00004805348	Nominal RA [deg]
dec_nom	16.971302394821	Nominal Dec [deg]
roll_nom	237.27877275426	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8284.0853580236	Sum of GTIs [s]
livetime	8179.187281143	Livetime [s]
ontime0	8284.0853581429	Sum of GTIs [s]
ontime1	8287.0700377226	Sum of GTIs [s]
ontime2	8287.0289977193	Sum of GTIs [s]
ontime3	8284.0853580236	Sum of GTIs [s]
ontime6	8286.987957716	Sum of GTIs [s]
ontime7	8284.0853580236	Sum of GTIs [s]
l2events	217897	Number of level 2 events

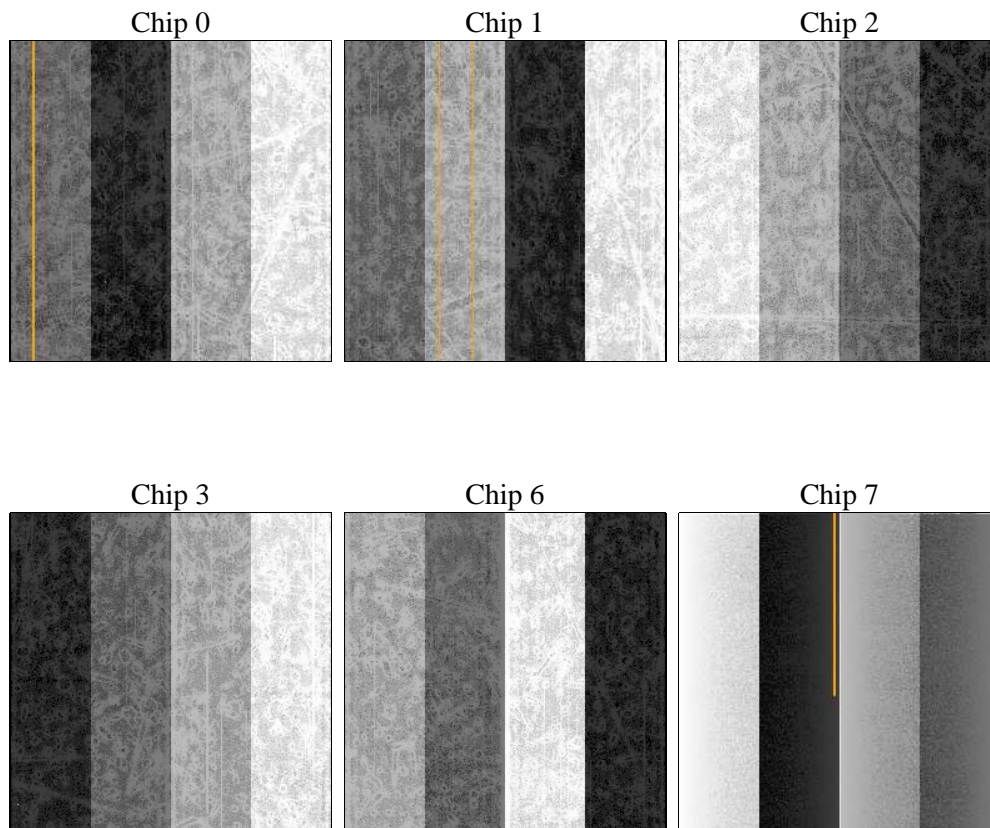
## 2 OBI

### 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	8.5.1.1	Processing system revision	ontime	8284.0853580236	Sum of GTIs [s]
caldbver	4.5.6	&#160	ontime0	8284.0853581429	Sum of GTIs [s]
date	2013-03-14T15:15:59	Date and time of file creation	ontime1	8287.0700377226	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	8287.0289977193	Sum of GTIs [s]
			ontime3	8284.0853580236	Sum of GTIs [s]
			ontime6	8286.987957716	Sum of GTIs [s]
			ontime7	8284.0853580236	Sum of GTIs [s]
			l1events	1044124	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	172514	183035	184257	182944	184248	137126	grade 0 events	15359	13517	16500	17188	12693	7914
rejected events	139013	149468	150359	148003	149874	76083		8%	7%	8%	9%	6%	5%
rejected %	80%	81%	81%	80%	81%	55%	grade 1 events	80	65	81	76	47	83
								0%	0%	0%	0%	0%	0%
							grade 2 events	8519	10208	7878	7978	11604	15027
								4%	5%	4%	4%	6%	10%
							grade 3 events	2077	1760	2193	2208	1589	4508
								1%	0%	1%	1%	0%	3%
							grade 4 events	1949	1762	2111	2124	1565	4357
								1%	0%	1%	1%	0%	3%
							grade 5 events	2623	2648	2598	3045	2640	7263
								1%	1%	1%	1%	1%	5%
							grade 6 events	5597	6320	5216	5443	6923	29237
								3%	3%	2%	2%	3%	21%
							grade 7 events	136310	146755	147680	144882	147187	68737
								79%	80%	80%	79%	79%	50%

## 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	153.0000480534772	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	16.97130239482125	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	237.2787727542604	[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)	479589195.513753	479589194.48875			
Observation start date	2013-03-13T19:13:16	2013-03-13T19:13:14			
[s] Observation end time (MET)	479599373.764303	479599372.7393			
Observation end date	2013-03-13T22:02:54	2013-03-13T22:02:52			
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)	2013.03.14
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.2840853580236

## A.2 Comments