

# V&V Reference Report

## L2 ASCDS Version : 10.1

Observation 53313 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Oct 11 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

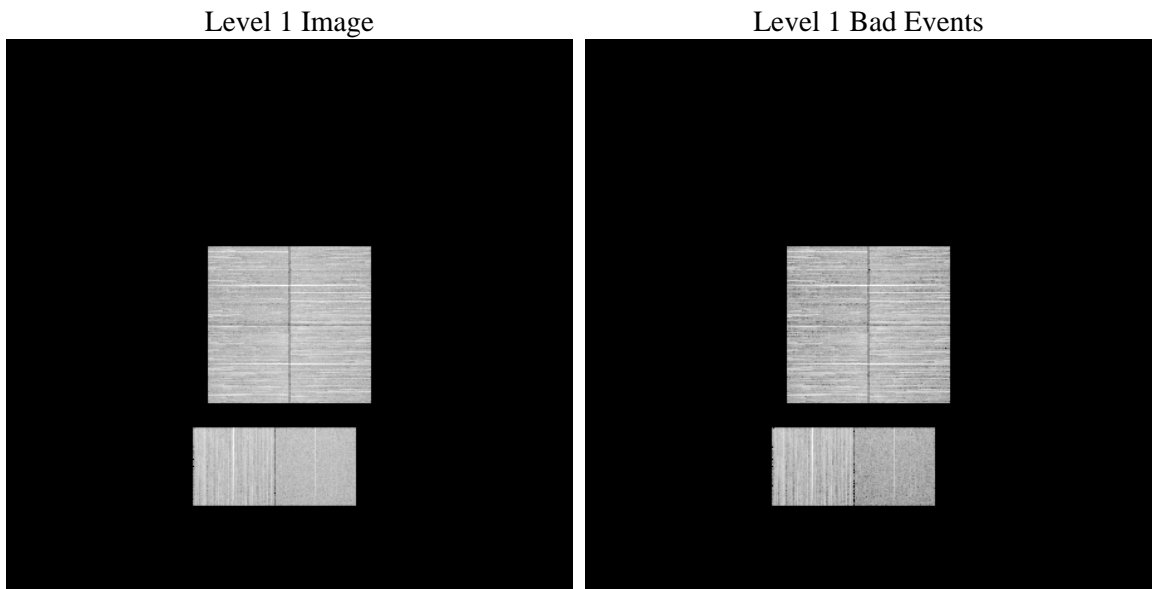
# 1 Front

seq_num	&#160	Sequence number
obs_id	53313	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	163.34783640749	Nominal RA [deg]
dec_nom	33.627964158973	Nominal Dec [deg]
roll_nom	43.959218564409	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8287.9999691844	Sum of GTIs [s]
livetime	8183.0523231401	Livetime [s]
ontime0	8287.9999691844	Sum of GTIs [s]
ontime1	8287.9999691844	Sum of GTIs [s]
ontime2	8287.9999691844	Sum of GTIs [s]
ontime3	8287.9999691844	Sum of GTIs [s]
ontime6	8287.9999691844	Sum of GTIs [s]
ontime7	8287.9999691844	Sum of GTIs [s]
l2events	205822	Number of level 2 events

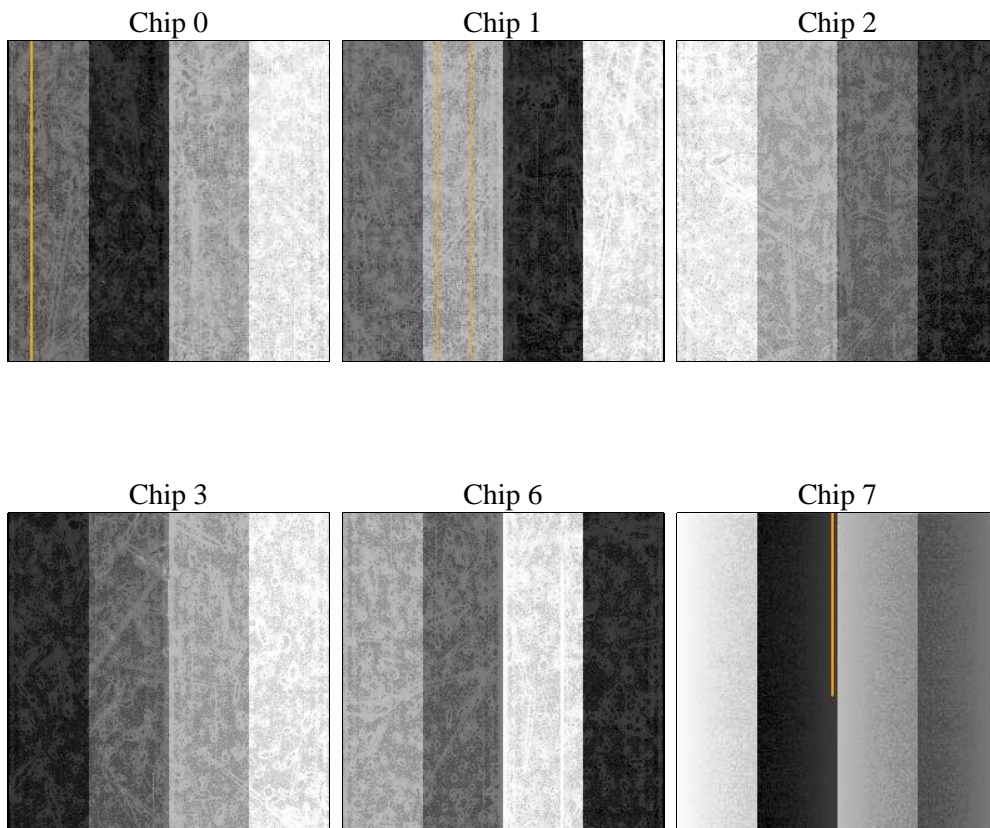
## 2 OBI

### 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	10.1	Processing system revision	ontime	8287.9999691844	Sum of GTIs [s]
caldsver	4.5.8	&#160	ontime0	8287.9999691844	Sum of GTIs [s]
date	2013-10-11T14:48:41	Date and time of file creation	ontime1	8287.9999691844	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	8287.9999691844	Sum of GTIs [s]
			ontime3	8287.9999691844	Sum of GTIs [s]
			ontime6	8287.9999691844	Sum of GTIs [s]
			ontime7	8287.9999691844	Sum of GTIs [s]
			l1events	872093	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	132692	152863	152836	153369	156904	123429	grade 0 events	15772	15503	16455	16371	16278	8596
rejected events	101368	120918	120797	121520	123583	65615		11%	10%	10%	10%	10%	6%
rejected %	76%	79%	79%	79%	78%	53%	grade 1 events	101	83	91	88	82	77
								0%	0%	0%	0%	0%	0%
							grade 2 events	6242	6720	6295	6109	6739	14100
								4%	4%	4%	3%	4%	11%
							grade 3 events	2097	2072	2254	2147	2107	4688
								1%	1%	1%	1%	1%	3%
							grade 4 events	2095	2105	2119	2189	2193	4647
								1%	1%	1%	1%	1%	3%
							grade 5 events	2822	2851	2761	3168	3035	7395
								2%	1%	1%	2%	1%	5%
							grade 6 events	5118	5545	4916	5033	6004	25783
								3%	3%	3%	3%	3%	20%
							grade 7 events	98445	117984	117945	118264	120466	58143
								74%	77%	77%	77%	76%	47%

## 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	163.3478364074866	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	33.62796415897284	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	43.95921856440872	[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)	497838411.305775	497838410.28078			
Observation start date	2013-10-11T00:26:51	2013-10-11T00:26:50			
[s] Observation end time (MET)	497856209.406749	497856208.38175			
Observation end date	2013-10-11T05:23:29	2013-10-11T05:23:28			
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)	2013.10.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.2879999691844

### A.2 Comments