

# V&V Reference Report

## L2 ASCDS Version : 10.4

Observation 51839 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Jun 9 2015

## 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

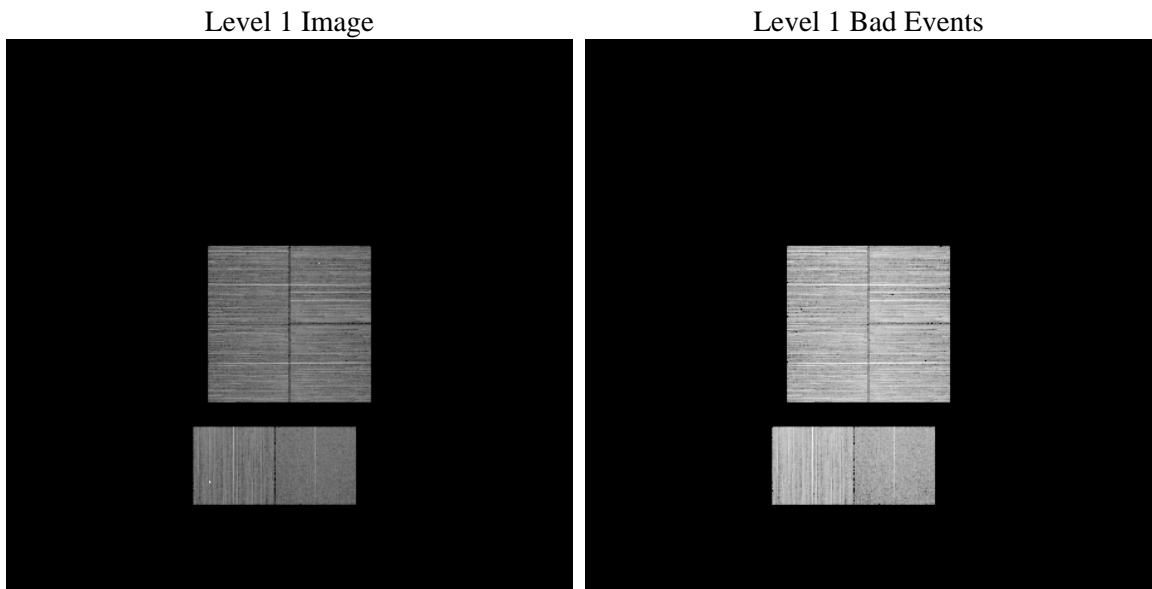
# 1 Front

seq_num	&#160	Sequence number
obs_id	51839	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	264.50840395385	Nominal RA [deg]
dec_nom	0.86460456889741	Nominal Dec [deg]
roll_nom	162.77475490237	Nominal Roll [deg]
revision	1	Processing version of data
ontime	7813.670373559	Sum of GTIs [s]
livetime	7714.7289744615	Livetime [s]
ontime0	7719.6379885674	Sum of GTIs [s]
ontime1	7719.5981031656	Sum of GTIs [s]
ontime2	7709.8327481747	Sum of GTIs [s]
ontime3	7716.4802134037	Sum of GTIs [s]
ontime6	7700.0686084032	Sum of GTIs [s]
ontime7	7813.670373559	Sum of GTIs [s]
l2events	139356	Number of level 2 events

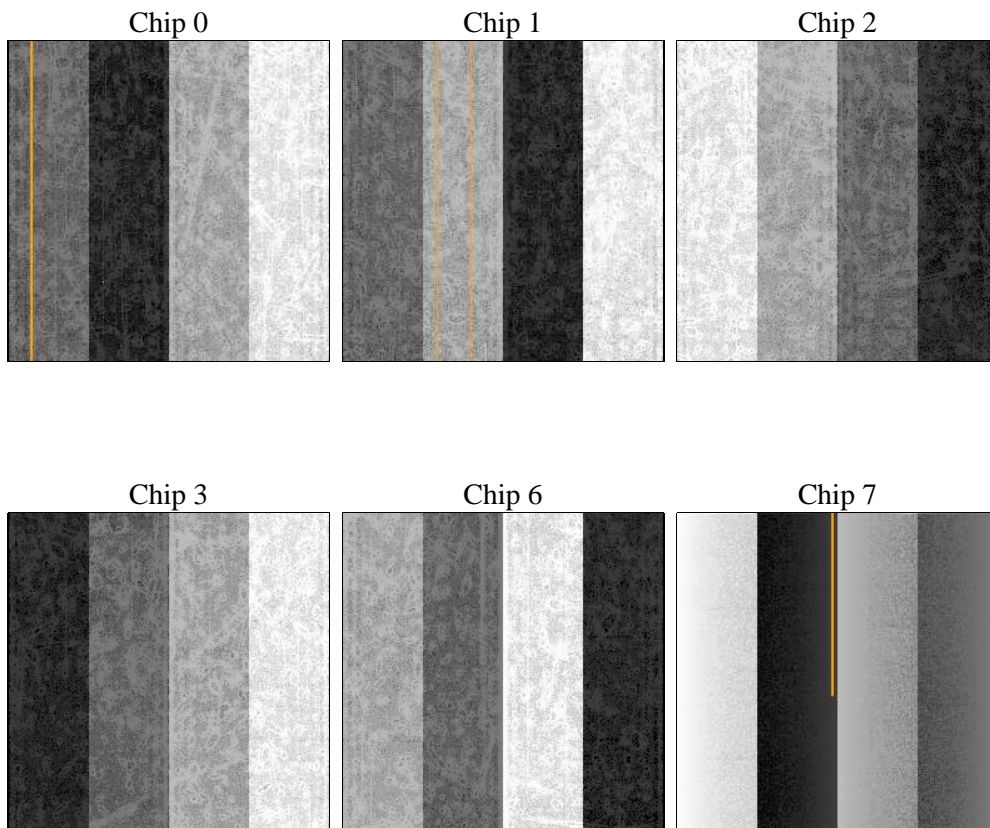
## 2 OBI

### 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	10.4	Processing system revision	ontime	7813.670373559	Sum of GTIs [s]
caldsver	4.6.7	&#160	ontime0	7719.6379885674	Sum of GTIs [s]
date	2015-06-09T15:08:28	Date and time of file creation	ontime1	7719.5981031656	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	7709.8327481747	Sum of GTIs [s]
			ontime3	7716.4802134037	Sum of GTIs [s]
			ontime6	7700.0686084032	Sum of GTIs [s]
			ontime7	7813.670373559	Sum of GTIs [s]
			l1events	802936	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	127362	143965	133208	139115	147687	111599	grade 0 events	9898	10183	10768	10232	16852	5461
rejected events	106973	122642	112323	118764	119456	66253		7%	7%	8%	7%	11%	4%
rejected %	83%	85%	84%	85%	80%	59%	grade 1 events	51	60	47	77	68	69
								0%	0%	0%	0%	0%	0%
							grade 2 events	4383	4809	4156	4128	4708	11398
								3%	3%	3%	2%	3%	10%
							grade 3 events	1441	1379	1444	1448	1470	3420
								1%	0%	1%	1%	0%	3%
							grade 4 events	1432	1416	1435	1480	1444	3429
								1%	0%	1%	1%	0%	3%
							grade 5 events	2669	2557	2511	2981	2834	6859
								2%	1%	1%	2%	1%	6%
							grade 6 events	3358	3663	3193	3185	3921	21909
								2%	2%	2%	2%	2%	19%
							grade 7 events	104130	119898	109654	115584	116390	59054
								81%	83%	82%	83%	78%	52%

## 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	264.5084039538502	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	0.864604568897413	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	162.7747549023656	[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)	550203081.208738	550203080.18374			
Observation start date	2015-06-09T02:11:21	2015-06-09T02:11:20			
[s] Observation end time (MET)	550214635.009387	550214633.98439			
Observation end date	2015-06-09T05:23:55	2015-06-09T05:23:53			
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)	2015.06.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.813670373559

### A.2 Comments