

# V&V Reference Report

## L2 ASCDS Version : 10.4.3

Observation 51414 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Dec 16 2015

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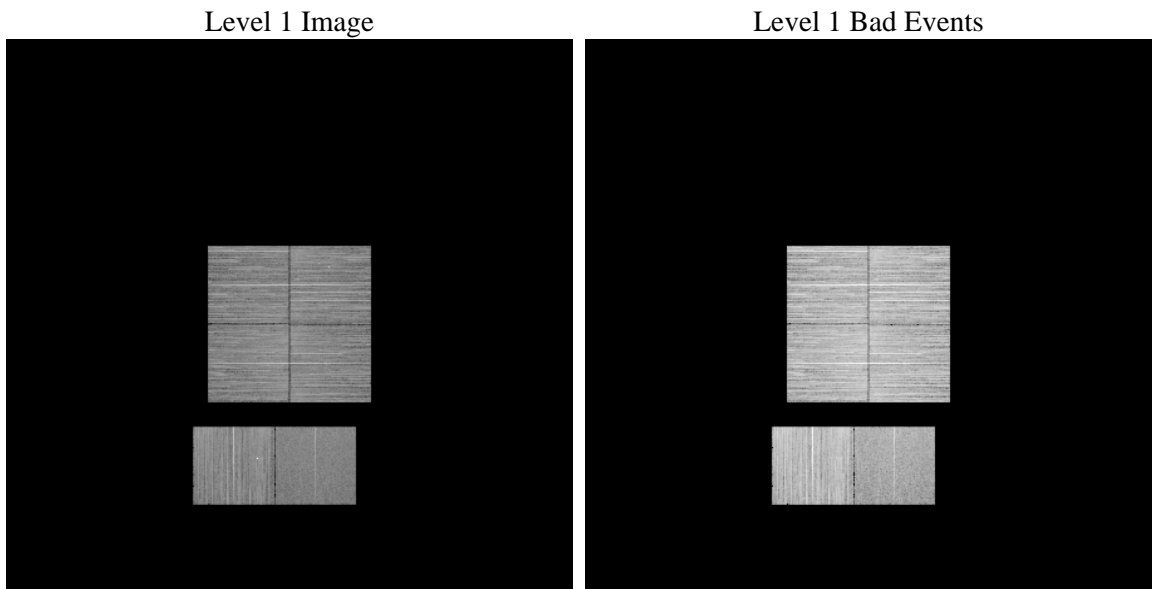
# 1 Front

seq_num	&#160	Sequence number
obs_id	51414	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	308.81919121761	Nominal RA [deg]
dec_nom	-58.141214764287	Nominal Dec [deg]
roll_nom	243.18367361151	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8280.5264470577	Sum of GTIs [s]
livetime	8175.6734352507	Livetime [s]
ontime0	8280.4854069948	Sum of GTIs [s]
ontime1	8280.4443670511	Sum of GTIs [s]
ontime2	8280.4033269882	Sum of GTIs [s]
ontime3	8280.5674870014	Sum of GTIs [s]
ontime6	8280.3622870445	Sum of GTIs [s]
ontime7	8280.5264470577	Sum of GTIs [s]
l2events	139800	Number of level 2 events

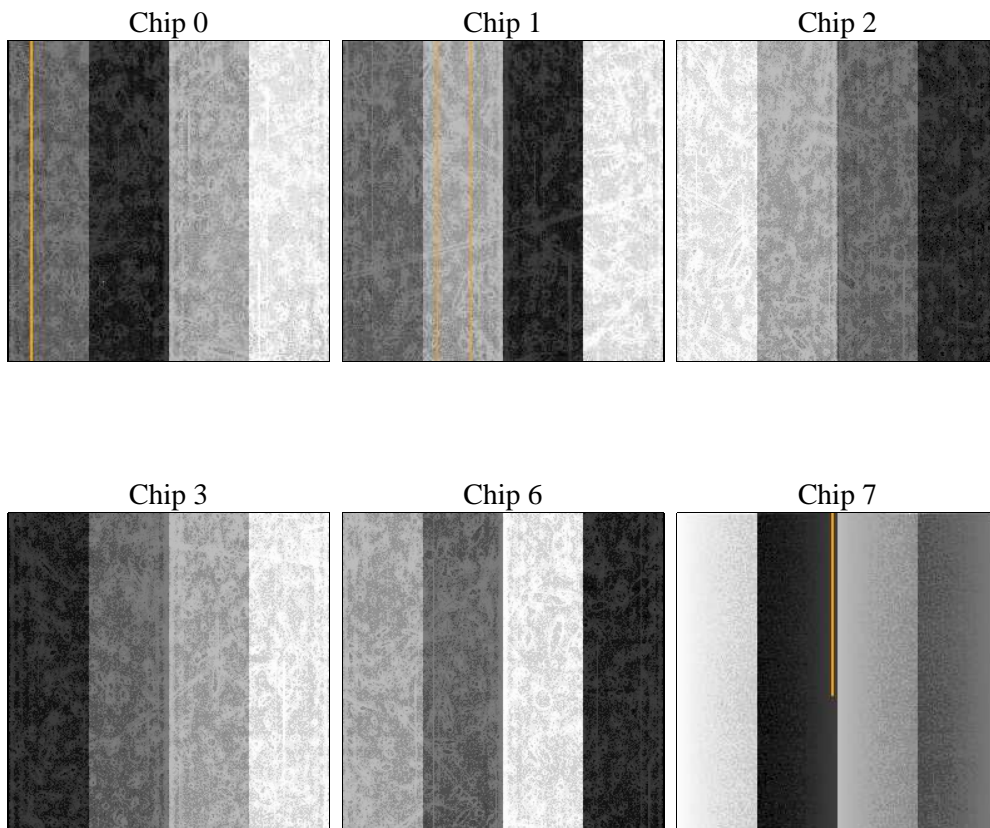
## 2 OBI

### 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	10.4.3	Processing system revision	ontime	8280.5264470577	Sum of GTIs [s]
caldsver	4.7.0	&#160	ontime0	8280.4854069948	Sum of GTIs [s]
date	2015-12-16T21:57:01	Date and time of file creation	ontime1	8280.4443670511	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	8280.4033269882	Sum of GTIs [s]
			ontime3	8280.5674870014	Sum of GTIs [s]
			ontime6	8280.3622870445	Sum of GTIs [s]
			ontime7	8280.5264470577	Sum of GTIs [s]
			l1events	909876	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	150565	160344	160090	157455	162074	119348	grade 0 events	9210	9217	9632	9964	11285	5074
rejected events	130391	139136	140081	137038	138762	72543		6%	5%	6%	6%	6%	4%
rejected %	86%	86%	87%	87%	85%	60%	grade 1 events	39	39	69	64	51	79
								0%	0%	0%	0%	0%	0%
							grade 2 events	4662	5424	4365	4224	5369	11643
								3%	3%	2%	2%	3%	9%
							grade 3 events	1445	1341	1459	1459	1365	3373
								0%	0%	0%	0%	0%	2%
							grade 4 events	1376	1370	1396	1464	1265	3265
								0%	0%	0%	0%	0%	2%
							grade 5 events	2865	2803	2685	3213	2935	7193
								1%	1%	1%	2%	1%	6%
							grade 6 events	3481	3856	3157	3306	4028	23450
								2%	2%	1%	2%	2%	19%
							grade 7 events	127487	136294	137327	133761	135776	65271
								84%	85%	85%	84%	83%	54%

## 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	308.8191912176088	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	-58.14121476428665	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	243.1836736115122	[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)	566614323.074114	566614322.0491101			
Observation start date	2015-12-16T00:52:03	2015-12-16T00:52:02			
[s] Observation end time (MET)	566624763.7247061	566624762.69971			
Observation end date	2015-12-16T03:46:04	2015-12-16T03:46:02			
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)	2015.12.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.2805264470577

### A.2 Comments