

# V&V Reference Report

## L2 ASCDS Version : 10.2.2

Observation 52783 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : May 11 2014

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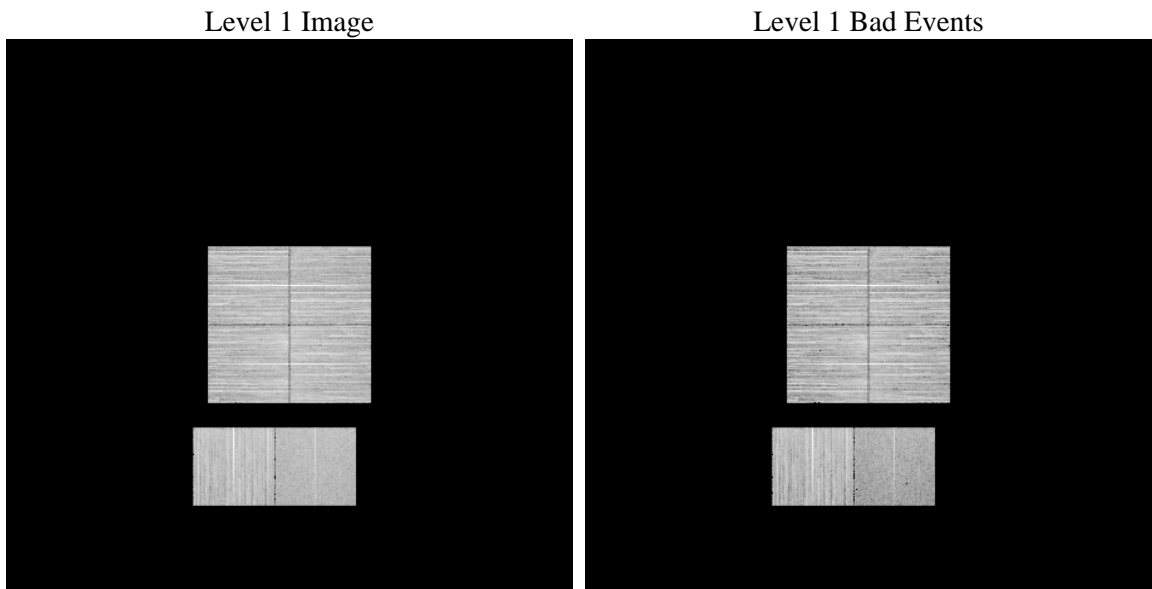
# 1 Front

seq_num	&#160	Sequence number
obs_id	52783	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	253.97859270652	Nominal RA [deg]
dec_nom	-12.980219431528	Nominal Dec [deg]
roll_nom	103.62342861928	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8290.237745285	Sum of GTIs [s]
livetime	8185.2617631724	Livetime [s]
ontime0	8291.1999691725	Sum of GTIs [s]
ontime1	8291.1999691725	Sum of GTIs [s]
ontime2	8291.1999691725	Sum of GTIs [s]
ontime3	8290.1967154145	Sum of GTIs [s]
ontime6	8291.1999691725	Sum of GTIs [s]
ontime7	8290.237745285	Sum of GTIs [s]
l2events	173709	Number of level 2 events

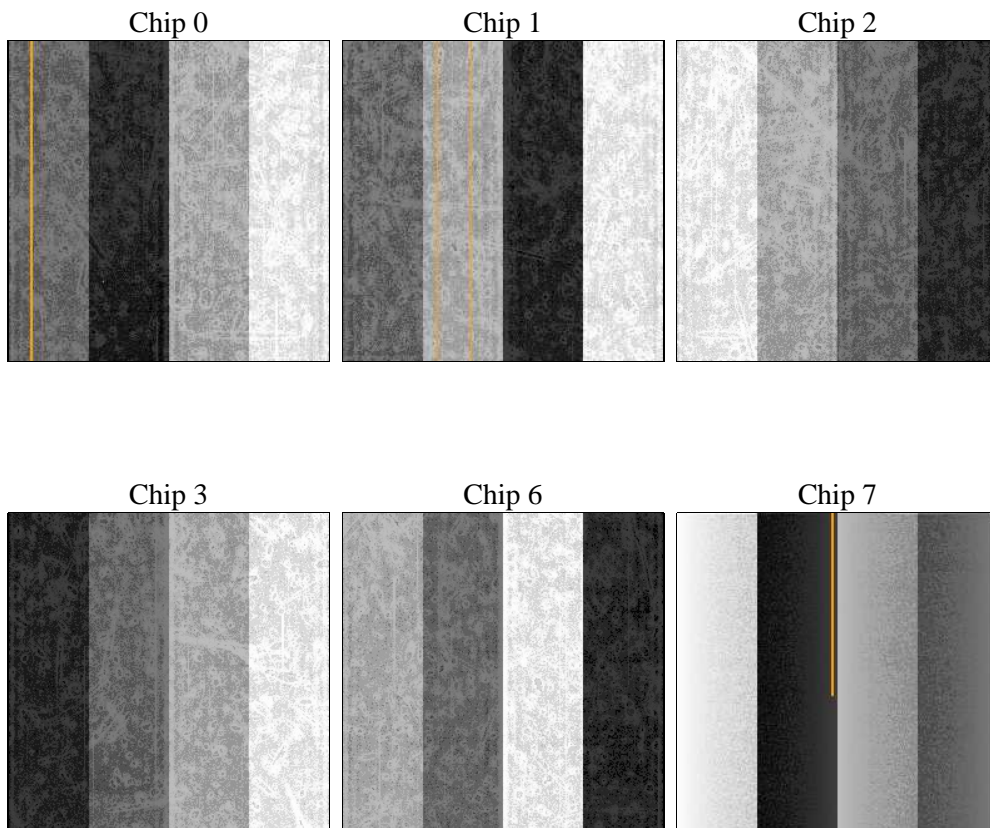
## 2 OBI

### 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	10.2.2	Processing system revision	ontime	8290.237745285	Sum of GTIs [s]
caldsver	4.6.1	&#160	ontime0	8291.1999691725	Sum of GTIs [s]
date	2014-05-11T09:49:51	Date and time of file creation	ontime1	8291.1999691725	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	8291.1999691725	Sum of GTIs [s]
			ontime3	8290.1967154145	Sum of GTIs [s]
			ontime6	8291.1999691725	Sum of GTIs [s]
			ontime7	8290.237745285	Sum of GTIs [s]
			l1events	846789	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	147322	137952	143928	147066	152443	118078	grade 0 events	12911	12535	13689	13514	13067	6953
rejected events	121330	111555	117330	120510	124893	66893		8%	9%	9%	9%	8%	5%
rejected %	82%	80%	81%	81%	81%	56%	grade 1 events	60	60	66	75	64	76
								0%	0%	0%	0%	0%	0%
							grade 2 events	5383	5987	5232	5159	5968	12670
								3%	4%	3%	3%	3%	10%
							grade 3 events	1788	1714	1825	1892	1788	4052
								1%	1%	1%	1%	1%	3%
							grade 4 events	1734	1681	1816	1876	1788	3919
								1%	1%	1%	1%	1%	3%
							grade 5 events	2748	2804	2589	3114	2958	7224
								1%	2%	1%	2%	1%	6%
							grade 6 events	4186	4490	4043	4115	4950	23591
								2%	3%	2%	2%	3%	19%
							grade 7 events	118512	108681	114668	117321	121860	59593
								80%	78%	79%	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	253.9785927065248	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	-12.98021943152815	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	103.6234286192817	[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)	516118225.410684	516118224.38568			
Observation start date	2014-05-10T14:10:25	2014-05-10T14:10:24			
[s] Observation end time (MET)	516130537.711363	516130536.68636			
Observation end date	2014-05-10T17:35:38	2014-05-10T17:35:36			
Read mode	TIMED	TIMED			

## **2.3 Star Slots**

## **2.4 FID Slots**

## A Summary

### A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2014.05.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.290237745285

### A.2 Comments