

# V&V Reference Report

## L2 ASCDS Version : 10.1

Observation 53283 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Oct 24 2013

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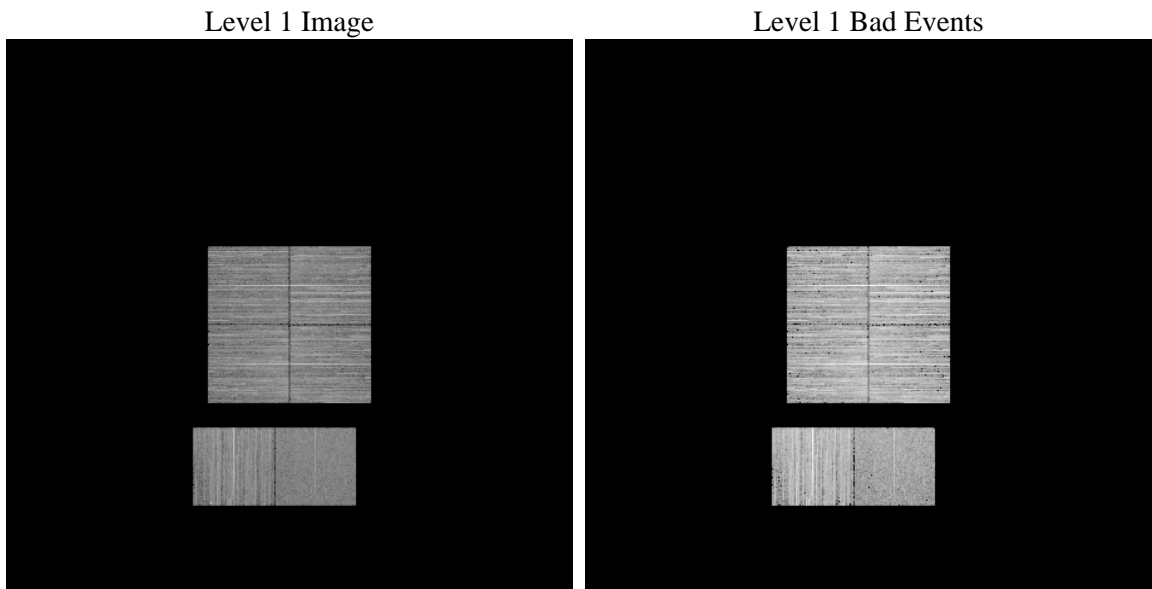
# 1 Front

seq_num	&#160	Sequence number
obs_id	53283	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	258.09886892996	Nominal RA [deg]
dec_nom	16.707164474483	Nominal Dec [deg]
roll_nom	297.08040566132	Nominal Roll [deg]
revision	1	Processing version of data
ontime	5521.512978673	Sum of GTIs [s]
livetime	5451.5962566811	Livetime [s]
ontime0	5521.5539987683	Sum of GTIs [s]
ontime1	5521.5950586796	Sum of GTIs [s]
ontime2	5523.1999794841	Sum of GTIs [s]
ontime3	5521.4719386697	Sum of GTIs [s]
ontime6	5523.1999794841	Sum of GTIs [s]
ontime7	5521.512978673	Sum of GTIs [s]
l2events	135389	Number of level 2 events

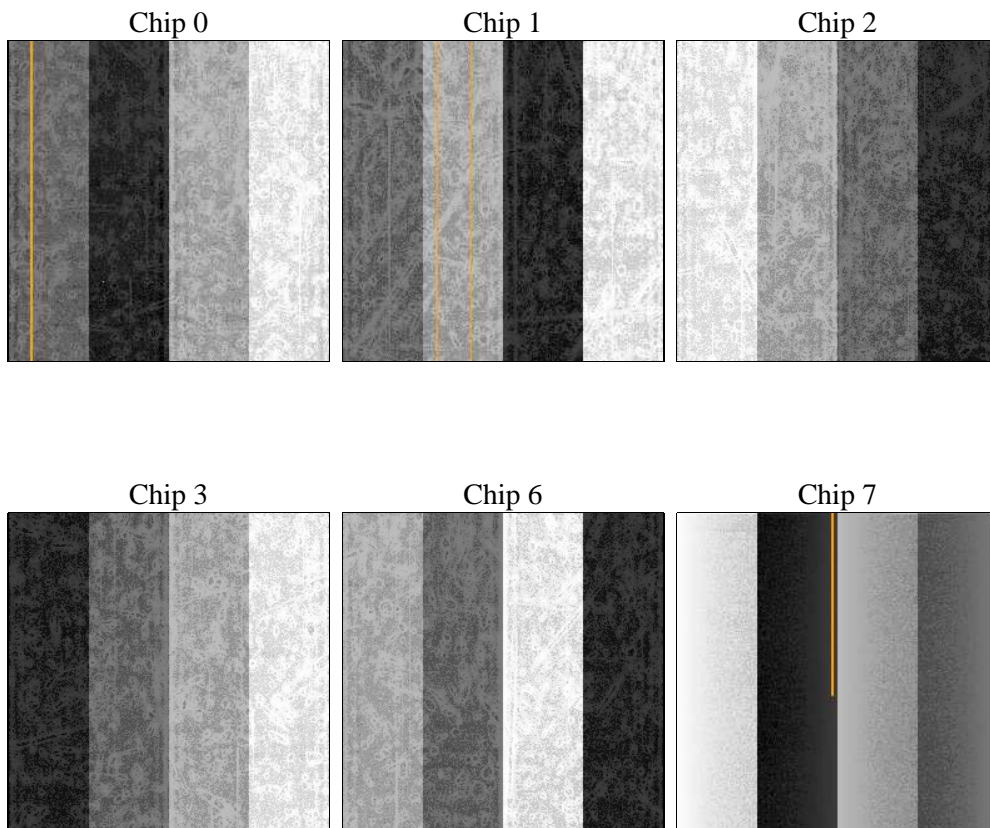
## 2 OBI

### 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	10.1	Processing system revision	ontime	5521.512978673	Sum of GTIs [s]
caldsver	4.5.8	&#160	ontime0	5521.5539987683	Sum of GTIs [s]
date	2013-10-25T02:05:02	Date and time of file creation	ontime1	5521.5950586796	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	5523.1999794841	Sum of GTIs [s]
			ontime3	5521.4719386697	Sum of GTIs [s]
			ontime6	5523.1999794841	Sum of GTIs [s]
			ontime7	5521.512978673	Sum of GTIs [s]
			l1events	580081	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	88894	105162	98376	100948	104316	82385	grade 0 events	10680	10178	11105	10688	12606	5651
rejected events	68005	84438	77280	80314	80675	44313		12%	9%	11%	10%	12%	6%
rejected %	76%	80%	78%	79%	77%	53%	grade 1 events	60	40	54	63	46	65
								0%	0%	0%	0%	0%	0%
							grade 2 events	4123	4276	3996	3993	4394	9383
								4%	4%	4%	3%	4%	11%
							grade 3 events	1401	1410	1473	1458	1437	3175
								1%	1%	1%	1%	1%	3%
							grade 4 events	1389	1449	1487	1432	1471	3131
								1%	1%	1%	1%	1%	3%
							grade 5 events	1936	1990	1853	2197	2033	4960
								2%	1%	1%	2%	1%	6%
							grade 6 events	3415	3533	3198	3195	3896	16997
								3%	3%	3%	3%	3%	20%
							grade 7 events	65890	82286	75210	77922	78433	39023
								74%	78%	76%	77%	75%	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	258.0988689299633	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	16.7071644744825	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	297.080405661321	[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)	498986163.318562	498986162.29356			
Observation start date	2013-10-24T07:16:03	2013-10-24T07:16:02			
[s] Observation end time (MET)	498993852.868983	498993851.84398			
Observation end date	2013-10-24T09:24:13	2013-10-24T09:24:11			
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)	2013.10.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.521512978673

### A.2 Comments