

# V&V Reference Report

## L2 ASCDS Version : 10.3

Observation 52319 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Nov 15 2014

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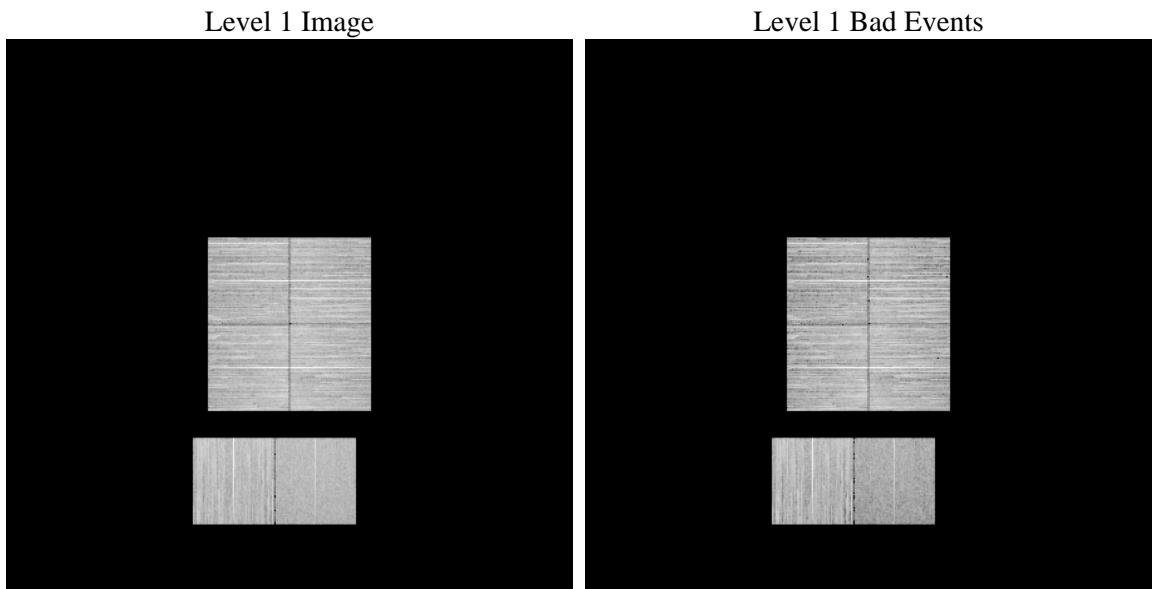
# 1 Front

seq_num	&#160	Sequence number
obs_id	52319	Observation id
title	ACIS-012367 diagnostics	Proposal title
observer	CHANDRA engineering request/realtime commanding	Principal investig
object	&#160	Source name
dtycle	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	32.933638078694	Nominal RA [deg]
dec_nom	8.9292074682755	Nominal Dec [deg]
roll_nom	301.72322637201	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8383.4479566216	Sum of GTIs [s]
livetime	8277.2916906886	Livetime [s]
ontime0	8383.4069166183	Sum of GTIs [s]
ontime1	8383.365876615	Sum of GTIs [s]
ontime2	8383.3248366117	Sum of GTIs [s]
ontime3	8383.4889966249	Sum of GTIs [s]
ontime6	8383.2837966084	Sum of GTIs [s]
ontime7	8383.4479566216	Sum of GTIs [s]
l2events	166000	Number of level 2 events

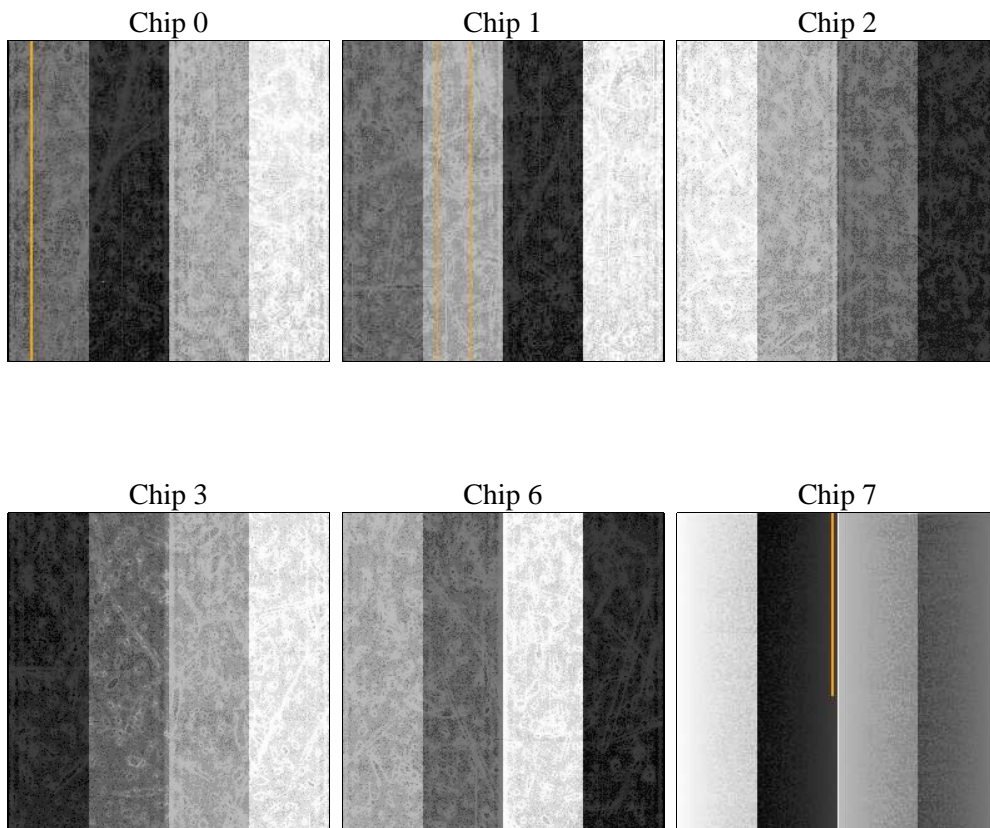
## 2 OBI

### 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	10.3	Processing system revision	ontime	8383.4479566216	Sum of GTIs [s]
caldbver	4.6.4	&#160	ontime0	8383.4069166183	Sum of GTIs [s]
date	2014-11-15T06:30:41	Date and time of file creation	ontime1	8383.365876615	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	8383.3248366117	Sum of GTIs [s]
			ontime3	8383.4889966249	Sum of GTIs [s]
			ontime6	8383.2837966084	Sum of GTIs [s]
			ontime7	8383.4479566216	Sum of GTIs [s]
			l1events	868560	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	135514	150656	154760	154672	150187	122771	grade 0 events	12277	11981	12653	12350	12344	6533
rejected events	110904	125752	130088	130409	124421	70729		9%	7%	8%	7%	8%	5%
rejected %	81%	83%	84%	84%	82%	57%	grade 1 events	64	53	73	78	56	95
								0%	0%	0%	0%	0%	0%
							grade 2 events	5104	5384	4887	4761	5440	13112
								3%	3%	3%	3%	3%	10%
							grade 3 events	1727	1722	1782	1712	1747	4266
								1%	1%	1%	1%	1%	3%
							grade 4 events	1786	1721	1746	1832	1788	4021
								1%	1%	1%	1%	1%	3%
							grade 5 events	2992	3018	2844	3145	3140	7725
								2%	2%	1%	2%	2%	6%
							grade 6 events	3953	4370	3902	3859	4711	24700
								2%	2%	2%	2%	3%	20%
							grade 7 events	107611	122407	126873	126935	120961	62319
								79%	81%	81%	82%	80%	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	32.93363807869383	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	8.929207468275496	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	301.7232263720127	[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)	532376300.712064	532376299.68706			
Observation start date	2014-11-14T18:18:21	2014-11-14T18:18:19			
[s] Observation end time (MET)	532388973.812769	532388972.78777			
Observation end date	2014-11-14T21:49:34	2014-11-14T21:49:32			
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)	2014.11.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.3834479566216

### A.2 Comments