

# V&V Reference Report

## L2 ASCDS Version : 10.4.2.1

Observation 51468 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Nov 28 2015

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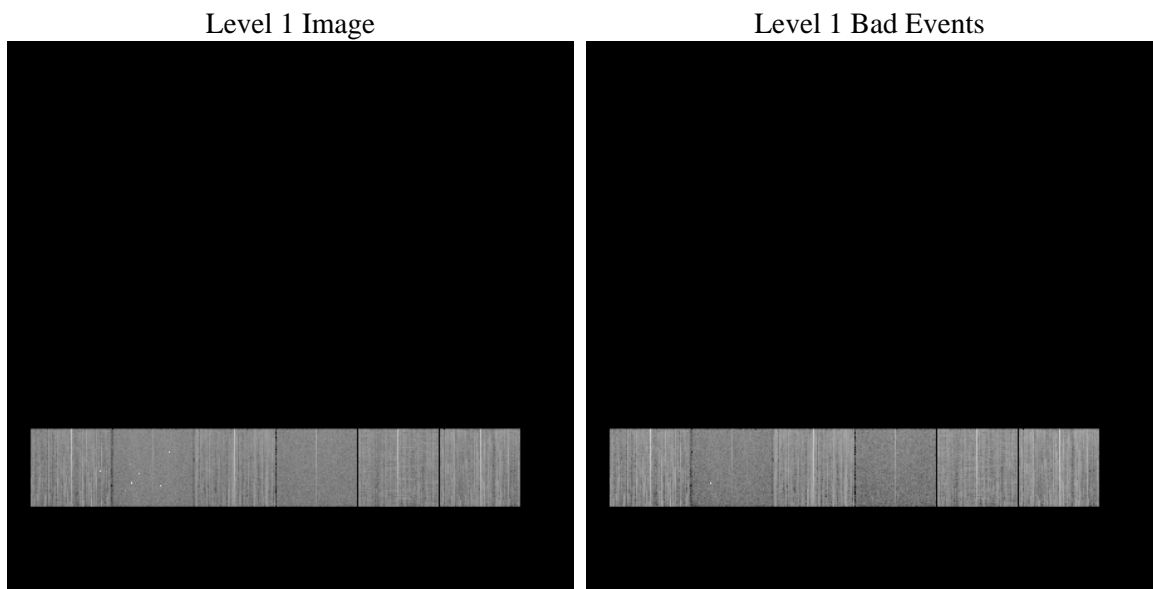
# 1 Front

seq_num	&#160	Sequence number
obs_id	51468	Observation id
title	ACIS-456789 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	113.96762803619	Nominal RA [deg]
dec_nom	45.016136219511	Nominal Dec [deg]
roll_nom	102.71273339076	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8437.6058459282	Sum of GTIs [s]
livetime	8330.7638001908	Livetime [s]
ontime4	8437.4827258587	Sum of GTIs [s]
ontime5	8437.5648058653	Sum of GTIs [s]
ontime6	8437.5237659216	Sum of GTIs [s]
ontime7	8437.6058459282	Sum of GTIs [s]
ontime8	8437.441685915	Sum of GTIs [s]
ontime9	8437.6468858719	Sum of GTIs [s]
l2events	182821	Number of level 2 events

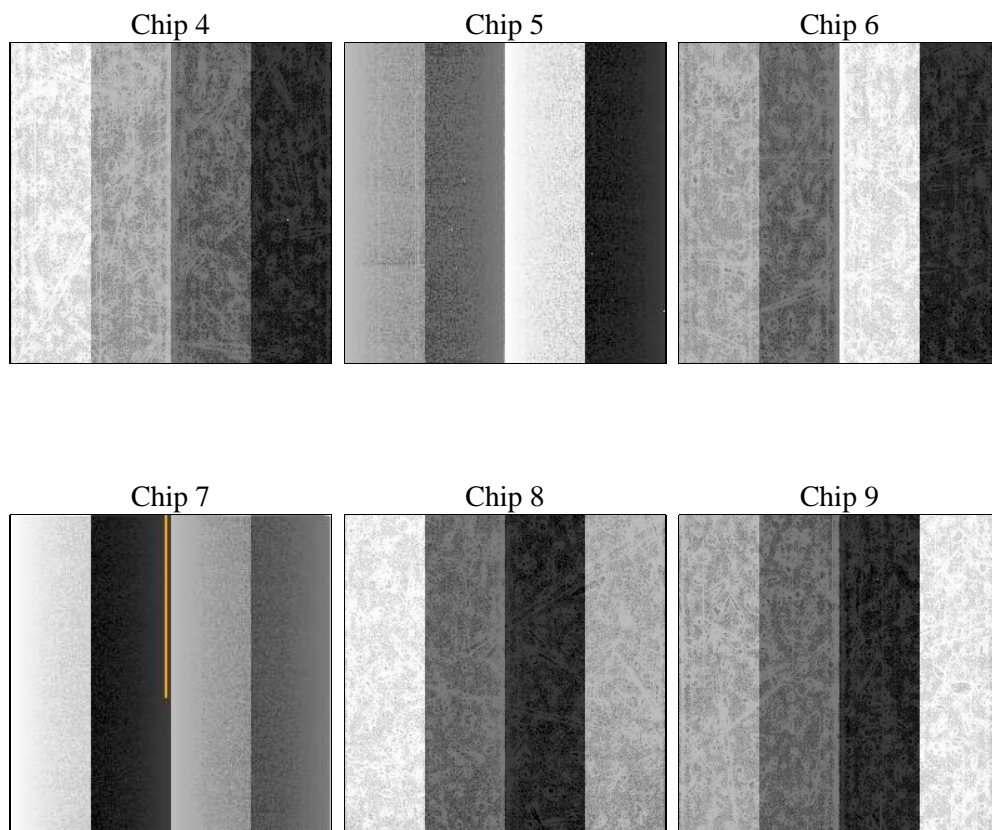
## 2 OBI

### 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	10.4.2.1	Processing system revision	ontime	8437.6058459282	Sum of GTIs [s]
caldbver	4.6.10a	&#160	ontime4	8437.4827258587	Sum of GTIs [s]
date	2015-11-28T20:18:03	Date and time of file creation	ontime5	8437.5648058653	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	8437.5237659216	Sum of GTIs [s]
			ontime7	8437.6058459282	Sum of GTIs [s]
			ontime8	8437.441685915	Sum of GTIs [s]
			ontime9	8437.6468858719	Sum of GTIs [s]
			l1events	983542	Number of level 1 events

### 2.1.4 Events

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	167067	146131	176212	129632	174776	189724	grade 0 events	12141	8549	9309	5397	12803	9978
rejected events	144084	84633	154489	79333	142848	168302		7%	5%	5%	4%	7%	5%
rejected %	86%	57%	87%	61%	81%	88%	grade 1 events	112	189	66	92	68	65
								0%	0%	0%	0%	0%	0%
							grade 2 events	4418	20827	5395	12659	7161	4565
								2%	14%	3%	9%	4%	2%
							grade 3 events	1702	1605	1375	3475	2632	1486
								1%	1%	0%	2%	1%	0%
							grade 4 events	1564	1549	1366	3412	2480	1471
								0%	1%	0%	2%	1%	0%
							grade 5 events	3463	6331	3244	7813	4532	3726
								2%	4%	1%	6%	2%	1%
							grade 6 events	3167	28981	4286	25378	6864	3935
								1%	19%	2%	19%	3%	2%
							grade 7 events	140500	78100	151171	71406	138236	164498
								84%	53%	85%	55%	79%	86%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-456789	ACIS-456789	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	113.9676280361917	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	45.01613621951108	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	102.7127333907565	[s] Primary exposure time	3.2	3.2
[mm] SIM focus pos	-1.429586	-0.6828225247311905			
[mm] SIM defocus	0.1037507710433287	0.8505141146731063			
[mm] SIM translation stage pos	250.455976	250.466033080201			
[mm] SIM translation stage offset	0	-0.01005468664627074			
[s] Observation start time (MET)	565054637.8857419	565054636.8607399			
Observation start date	2015-11-27T23:37:18	2015-11-27T23:37:16			
[s] Observation end time (MET)	565066808.736431	565066807.71143			
Observation end date	2015-11-28T03:00:09	2015-11-28T03:00:07			
Read mode	TIMED	TIMED			

## **2.3 Star Slots**

## **2.4 FID Slots**

## A Summary

### A.1 Status

V&V Scientist	David Huenemoerder
V&V Date (YYYY-MM-DD)	2015.11.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.4376058459282

### A.2 Comments