

# V&V Reference Report

## L2 ASCDS Version : 8.5.1.1

Observation 59733 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Dec 21 2012

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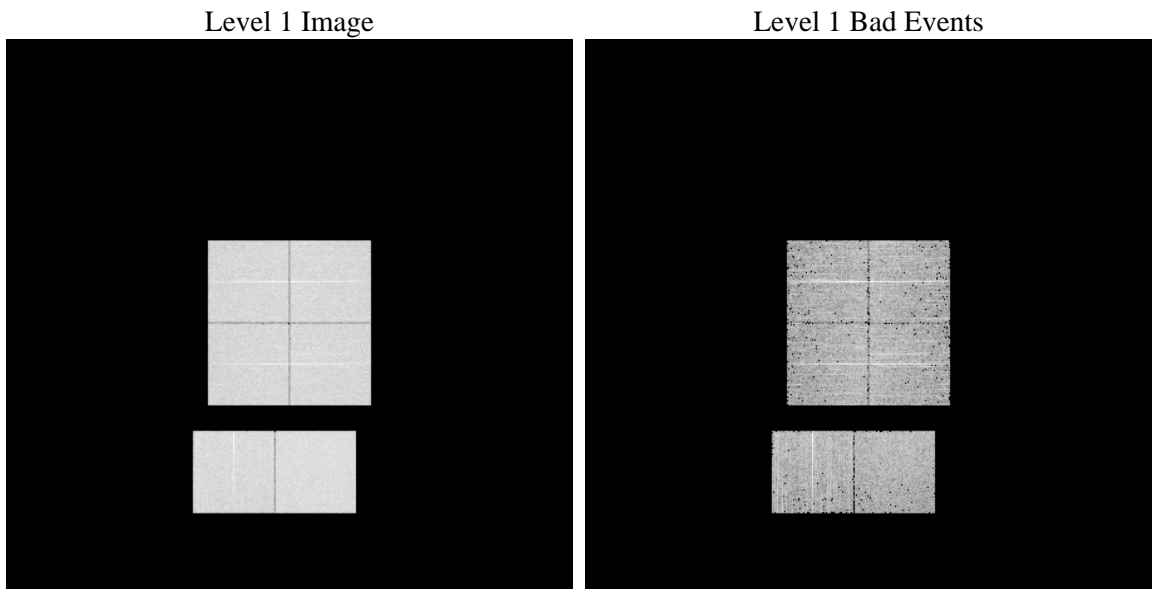
# 1 Front

seq_num	&#160	Sequence number
obs_id	59733	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	45.013231374036	Nominal RA [deg]
dec_nom	-7.7259451021831	Nominal Dec [deg]
roll_nom	263.97075915814	Nominal Roll [deg]
revision	3	Processing version of data
ontime	4620.2884625494	Sum of GTIs [s]
livetime	4561.7835880329	Livetime [s]
ontime0	4160.0309703946	Sum of GTIs [s]
ontime1	4247.4959879518	Sum of GTIs [s]
ontime2	4033.5516282916	Sum of GTIs [s]
ontime3	4143.9082689285	Sum of GTIs [s]
ontime6	4302.510412544	Sum of GTIs [s]
ontime7	4620.2884625494	Sum of GTIs [s]
l2events	631642	Number of level 2 events

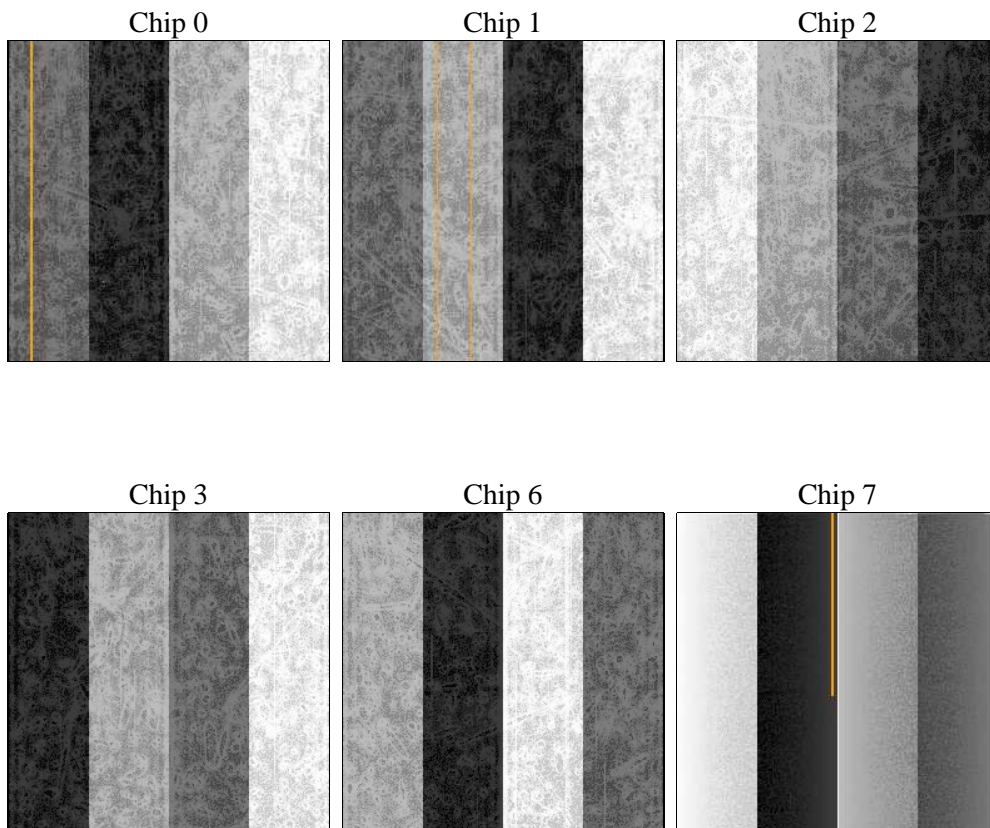
## 2 OBI

### 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	8.5.1.1	Processing system revision	ontime	4620.2884625494	Sum of GTIs [s]
caldsver	4.5.5	&#160	ontime0	4160.0309703946	Sum of GTIs [s]
date	2012-12-21T04:58:35	Date and time of file creation	ontime1	4247.4959879518	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	4033.5516282916	Sum of GTIs [s]
			ontime3	4143.9082689285	Sum of GTIs [s]
			ontime6	4302.510412544	Sum of GTIs [s]
			ontime7	4620.2884625494	Sum of GTIs [s]
			l1events	845002	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	134632	137816	132024	136563	145481	158486	grade 0 events	57315	58569	57701	59430	61155	30939
rejected events	29792	30533	29087	30754	32677	28335		42%	42%	43%	43%	42%	19%
rejected %	22%	22%	22%	22%	22%	17%	grade 1 events	305	308	348	391	314	99
								0%	0%	0%	0%	0%	0%
							grade 2 events	18598	19126	17299	17927	19539	28332
								13%	13%	13%	13%	13%	17%
							grade 3 events	6804	6841	6670	7014	6991	13125
								5%	4%	5%	5%	4%	8%
							grade 4 events	6882	6915	6781	6891	7075	12671
								5%	5%	5%	5%	4%	7%
							grade 5 events	1861	1879	1699	1963	2092	5051
								1%	1%	1%	1%	1%	3%
							grade 6 events	15241	15832	14486	14547	18044	45084
								11%	11%	10%	10%	12%	28%
							grade 7 events	27626	28346	27040	28400	30271	23185
								20%	20%	20%	20%	20%	14%

## 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	On-chip summing requested	N	N
Observation mode	SECONDARY	SECONDARY	Subarray requested	NONE	NONE
[deg] Pointing RA	0	45.01323137403605	Alternating exposures requested	N	N
[deg] Pointing Dec	0	-7.725945102183112	[s] Primary exposure time	3.2	3.2
[deg] Pointing Roll	0.0	263.9707591581446			
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.7524282956875696			
[mm] SIM translation stage pos	-233.592463	250.466033080201			
[mm] SIM translation stage offset	0	-0.01005468664627074			
[s] Observation start time (MET)	227540500.436116	227540499.41112			
Observation start date	2005-03-18T13:41:40	2005-03-18T13:41:39			
[s] Observation end time (MET)	227576988.387771	227576987.36277			
Observation end date	2005-03-18T23:49:48	2005-03-18T23:49:47			
Read mode	TIMED	TIMED			

## **2.3 Star Slots**

## **2.4 FID Slots**

## A Summary

### A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2013.01.30
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.6202884625494

### A.2 Comments