

# V&V Reference Report

## L2 ASCDS Version : 10.1

Observation 53308 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Oct 14 2013

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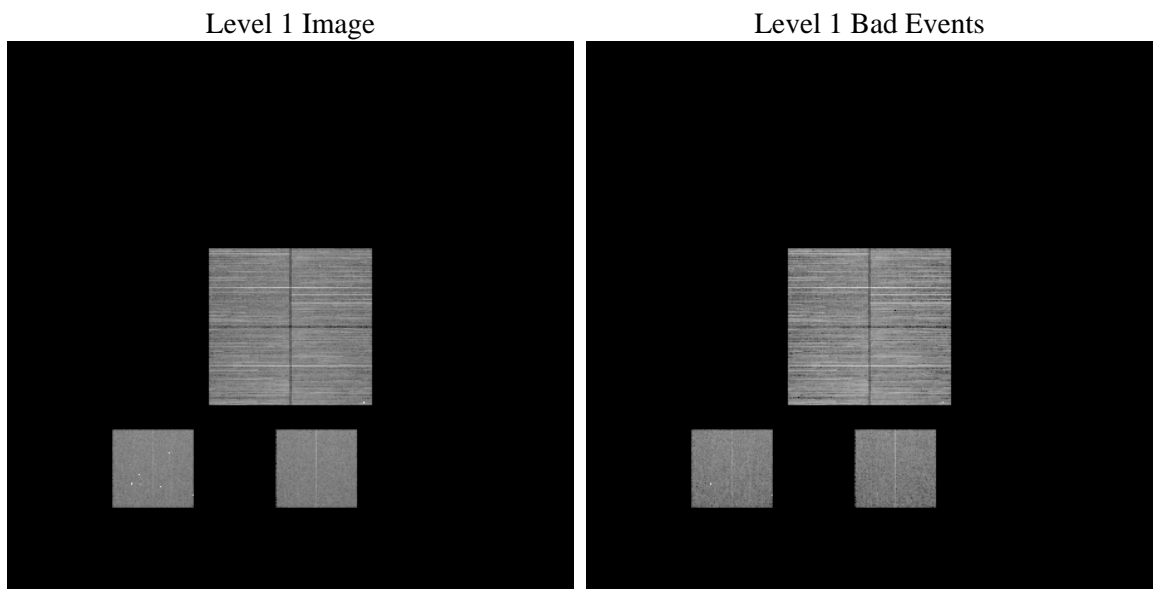
# 1 Front

seq_num	&#160	Sequence number
obs_id	53308	Observation id
title	ACIS-012357 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	60.812663004262	Nominal RA [deg]
dec_nom	25.503827003515	Nominal Dec [deg]
roll_nom	142.16359401112	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8259.1999692917	Sum of GTIs [s]
livetime	8154.6170061874	Livetime [s]
ontime0	8259.1999692917	Sum of GTIs [s]
ontime1	8259.1999692917	Sum of GTIs [s]
ontime2	8259.1999692917	Sum of GTIs [s]
ontime3	8259.1999692917	Sum of GTIs [s]
ontime5	8259.1999692917	Sum of GTIs [s]
ontime7	8259.1999692917	Sum of GTIs [s]
l2events	219612	Number of level 2 events

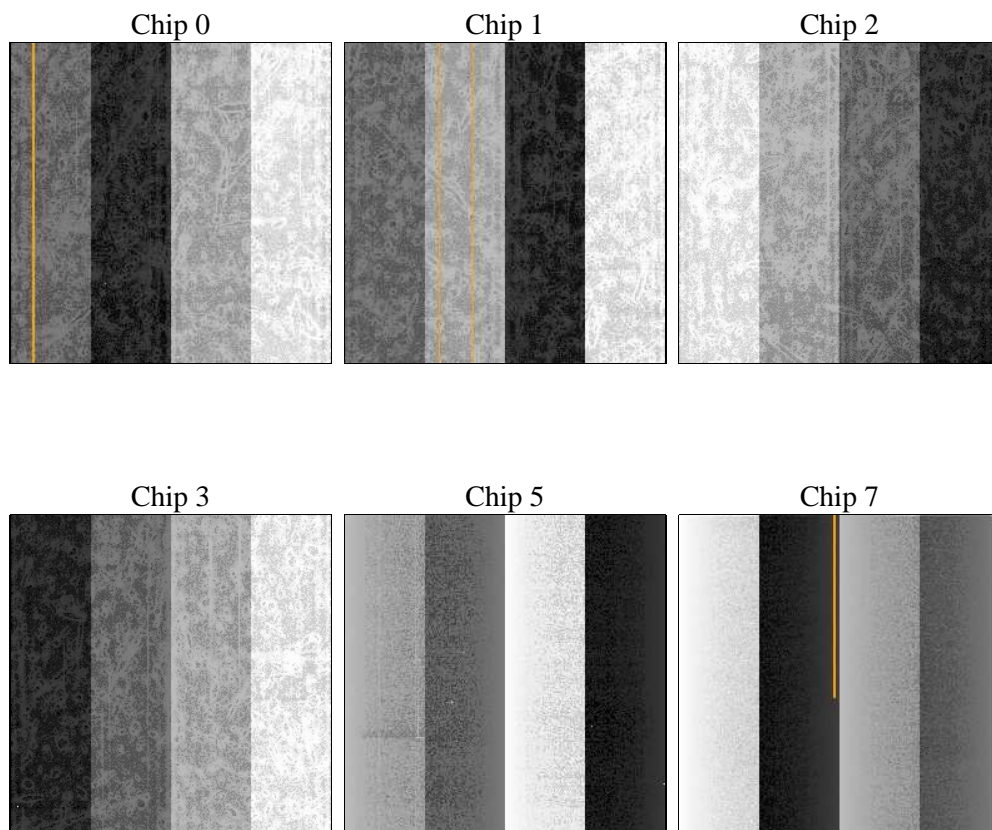
## 2 OBI

### 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	10.1	Processing system revision	ontime	8259.1999692917	Sum of GTIs [s]
caldsver	4.5.8	&#160	ontime0	8259.1999692917	Sum of GTIs [s]
date	2013-10-14T12:26:23	Date and time of file creation	ontime1	8259.1999692917	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	8259.1999692917	Sum of GTIs [s]
			ontime3	8259.1999692917	Sum of GTIs [s]
			ontime5	8259.1999692917	Sum of GTIs [s]
			ontime7	8259.1999692917	Sum of GTIs [s]
			l1events	874969	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 5	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 5	ccd 7
level 1 events	144376	154851	158478	157194	136315	123755	grade 0 events	14849	14521	15260	16449	10179	7557
rejected events	114860	124883	129038	124113	72711	68916		10%	9%	9%	10%	7%	6%
rejected %	79%	80%	81%	78%	53%	55%	grade 1 events	74	68	72	87	197	90
								0%	0%	0%	0%	0%	0%
							grade 2 events	6124	6758	5733	7967	22126	13764
								4%	4%	3%	5%	16%	11%
							grade 3 events	2012	1885	2008	2049	2349	4340
								1%	1%	1%	1%	1%	3%
							grade 4 events	2085	1948	2011	2161	1832	4161
								1%	1%	1%	1%	1%	3%
							grade 5 events	2807	2781	2619	3128	6037	7218
								1%	1%	1%	1%	4%	5%
							grade 6 events	4569	4978	4515	4568	27390	25227
								3%	3%	2%	2%	20%	20%
							grade 7 events	111856	121912	126260	120785	66205	61398
								77%	78%	79%	76%	48%	49%

## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-012357	ACIS-012357
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	SECONDARY	SECONDARY
[deg] Pointing RA	0	60.81266300426184
[deg] Pointing Dec	0	25.50382700351461
[deg] Pointing Roll	0.0	142.1635940111213
SIM focus pos (mm)	-1.4281808131	-1.4281808131
[mm] SIM defocus	0.1051557500557434	0.1051557500557434
SIM translation stage pos (mm)	250.4660330802	250.4660330802
[mm] SIM translation stage offset	-0.01005726120527584	-0.01005726120527584
[s] Observation start time (MET)	498068523.818366	498068523.818366
Observation start date	2013-10-13T16:22:04	2013-10-13T16:22:03
[s] Observation end time (MET)	498077407.551192	498077407.551192
Observation end date	2013-10-13T18:50:08	2013-10-13T18:50:07
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	OVERRIDE	OVERRIDE
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	3.2	3.2

## **2.3 Star Slots**

## **2.4 FID Slots**

## **A Summary**

### **A.1 Status**

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2013.10.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.2591999692917

### **A.2 Comments**