

# V&V Reference Report

## L2 ASCDS Version : 8.5.1.1

Observation 53814 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Apr 4 2013

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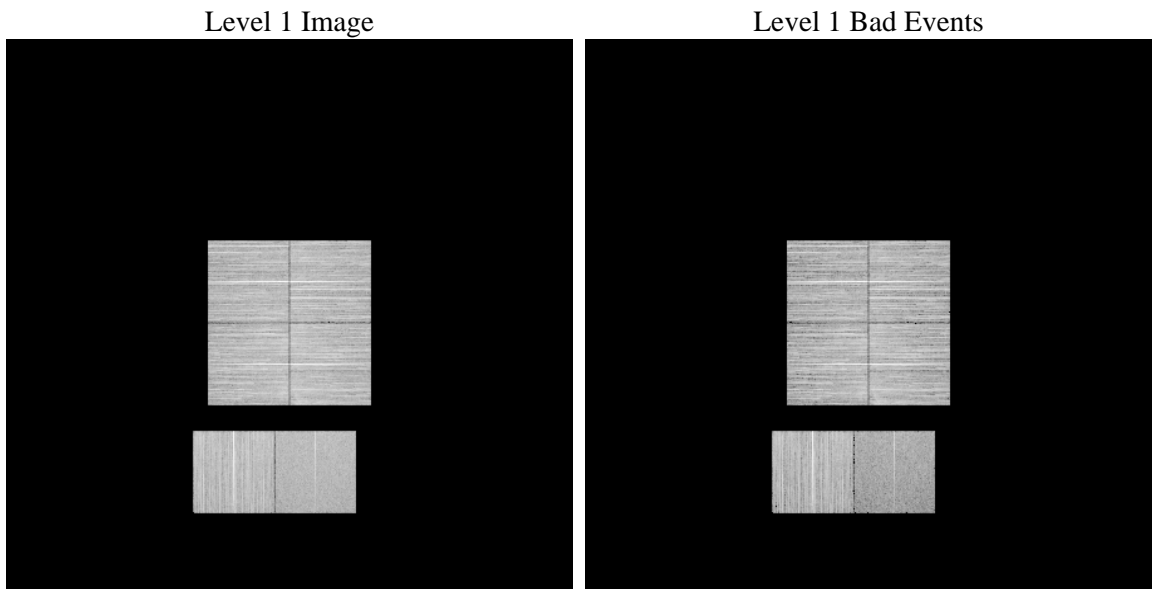
# 1 Front

seq_num	&#160	Sequence number
obs_id	53814	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	174.99096401062	Nominal RA [deg]
dec_nom	16.972680262489	Nominal Dec [deg]
roll_nom	219.50798551607	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8098.1018368006	Sum of GTIs [s]
livetime	7995.5587952515	Livetime [s]
ontime0	8098.0607967973	Sum of GTIs [s]
ontime1	8098.019756794	Sum of GTIs [s]
ontime2	8097.9787167907	Sum of GTIs [s]
ontime3	8098.1428768039	Sum of GTIs [s]
ontime6	8097.9376767874	Sum of GTIs [s]
ontime7	8098.1018368006	Sum of GTIs [s]
l2events	216390	Number of level 2 events

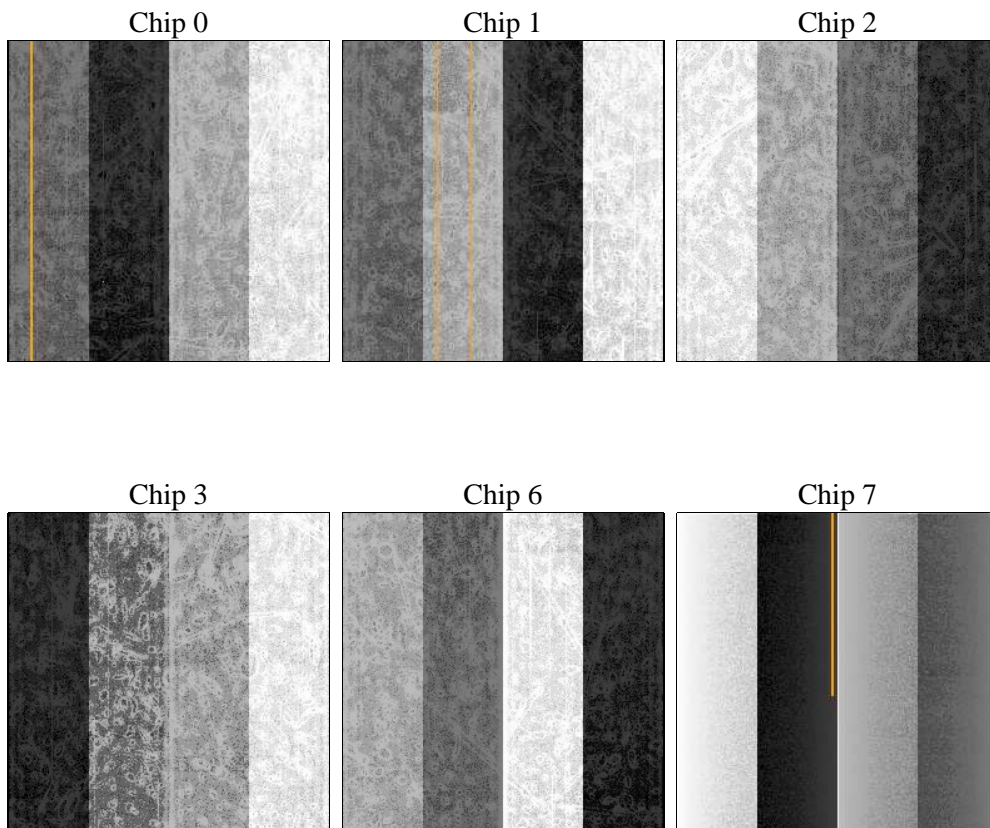
## 2 OBI

### 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	8098.1018368006	Sum of GTIs [s]
caldsver	4.5.6	&#160	ontime0	8098.0607967973	Sum of GTIs [s]
date	2013-04-04T11:05:15	Date and time of file creation	ontime1	8098.019756794	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	8097.9787167907	Sum of GTIs [s]
			ontime3	8098.1428768039	Sum of GTIs [s]
			ontime6	8097.9376767874	Sum of GTIs [s]
			ontime7	8098.1018368006	Sum of GTIs [s]
			l1events	987204	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	160852	168047	170981	178366	173634	135324	grade 0 events	17347	16661	17799	17702	17478	9291
rejected events	127566	134952	137707	145143	139074	73488		10%	9%	10%	9%	10%	6%
rejected %	79%	80%	80%	81%	80%	54%	grade 1 events	104	73	114	114	88	83
								0%	0%	0%	0%	0%	0%
							grade 2 events	6726	7112	6481	6451	7179	15563
								4%	4%	3%	3%	4%	11%
							grade 3 events	2309	2244	2331	2359	2292	5343
								1%	1%	1%	1%	1%	3%
							grade 4 events	2307	2288	2307	2307	2393	5258
								1%	1%	1%	1%	1%	3%
							grade 5 events	3058	3220	2918	3309	3313	8335
								1%	1%	1%	1%	1%	6%
							grade 6 events	5361	5578	5178	5239	6075	27785
								3%	3%	3%	2%	3%	20%
							grade 7 events	123640	130871	133853	140885	134816	63666
								76%	77%	78%	78%	77%	47%

## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-012367	ACIS-012367
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	SECONDARY	SECONDARY
[deg] Pointing RA	0	174.990964010621
[deg] Pointing Dec	0	16.97268026248911
[deg] Pointing Roll	0.0	219.507985516075
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)	481385649.560934	481385649.560934
Observation start date	2013-04-03T14:14:10	2013-04-03T14:14:09
[s] Observation end time (MET)	481395197.142221	481395197.142221
Observation end date	2013-04-03T16:53:17	2013-04-03T16:53:17
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)	2013.04.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.0981018368006

### **A.2 Comments**