

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 54687 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Apr 20 2012

## Contents

<b>1</b>	<b>Front</b>	<b>2</b>
<b>2</b>	<b>OBI</b>	<b>3</b>
2.1	OBI . . . . .	3
2.1.1	Images . . . . .	3
2.1.2	Bias . . . . .	3
2.1.3	Parameters . . . . .	4
2.1.4	Events . . . . .	4
2.2	Compared Parameters . . . . .	5
2.3	Star Slots . . . . .	6
2.4	FID Slots . . . . .	6
<b>A</b>	<b>Summary</b>	<b>7</b>
A.1	Status . . . . .	7
A.2	Comments . . . . .	7

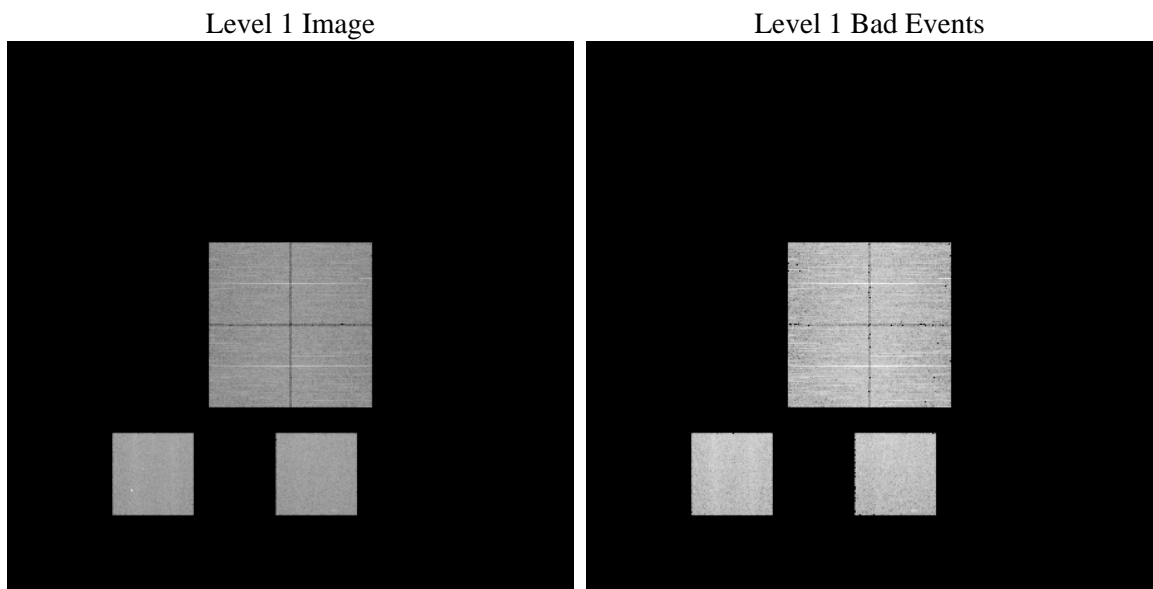
# 1 Front

seq_num	&#160	Sequence number
obs_id	54687	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	231.01279344216	Nominal RA [deg]
dec_nom	-25.970287582835	Nominal Dec [deg]
roll_nom	60.659342400177	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8278.3999692202	Sum of GTIs [s]
livetime	8173.5738841559	Livetime [s]
ontime0	8278.3999692202	Sum of GTIs [s]
ontime1	8278.3999692202	Sum of GTIs [s]
ontime2	8275.1514550447	Sum of GTIs [s]
ontime3	8278.3999692202	Sum of GTIs [s]
ontime5	8278.3514053822	Sum of GTIs [s]
ontime7	8278.3999692202	Sum of GTIs [s]
l2events	288900	Number of level 2 events

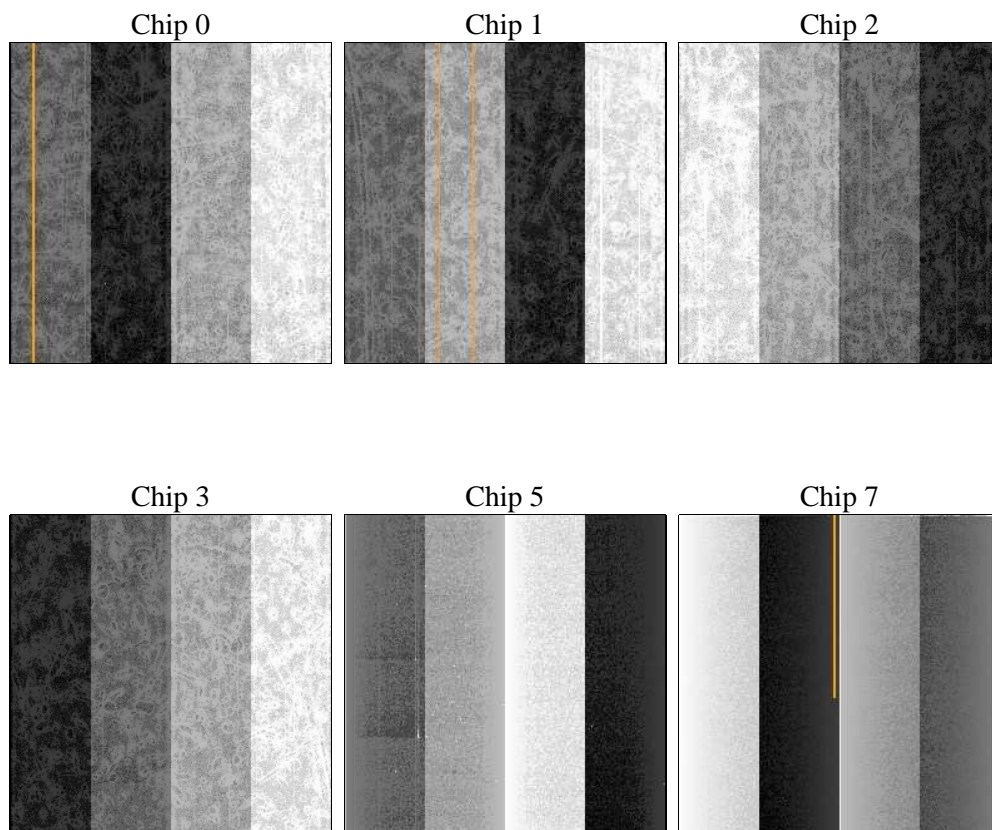
## 2 OBI

### 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	8.4.4	Processing system revision	ontime	8278.3999692202	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime0	8278.3999692202	Sum of GTIs [s]
date	2012-04-20T20:12:21	Date and time of file creation	ontime1	8278.3999692202	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	8275.1514550447	Sum of GTIs [s]
			ontime3	8278.3999692202	Sum of GTIs [s]
			ontime5	8278.3514053822	Sum of GTIs [s]
			ontime7	8278.3999692202	Sum of GTIs [s]
			l1events	648763	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	93068	95927	97134	98601	135145	128888	grade 0 events	19855	17924	20869	20951	6112	10441
rejected events	52546	55406	57052	58212	62300	59393		21%	18%	21%	21%	4%	8%
rejected %	56%	57%	58%	59%	46%	46%	grade 1 events	110	108	126	123	200	90
								0%	0%	0%	0%	0%	0%
							grade 2 events	8806	10698	7536	7770	26637	15388
								9%	11%	7%	7%	19%	11%
							grade 3 events	2590	2302	2764	2717	2556	5664
								2%	2%	2%	2%	1%	4%
							grade 4 events	2611	2356	2684	2710	2473	5451
								2%	2%	2%	2%	1%	4%
							grade 5 events	3034	3058	2897	3297	6426	8265
								3%	3%	2%	3%	4%	6%
							grade 6 events	6677	7257	6242	6260	35102	32577
								7%	7%	6%	6%	25%	25%
							grade 7 events	49385	52224	54016	54773	55639	51012
								53%	54%	55%	55%	41%	39%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012357	ACIS-012357	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	231.0127934421616	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	-25.97028758283468	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	60.65934240017718	[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)	451253562.023434	451253560.99843			
Observation start date	2012-04-19T20:12:42	2012-04-19T20:12:40			
[s] Observation end time (MET)	451264494.674015	451264493.64901			
Observation end date	2012-04-19T23:14:55	2012-04-19T23:14:53			
Read mode	TIMED	TIMED			

## **2.3 Star Slots**

## **2.4 FID Slots**

## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.04.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.2783999692202

### A.2 Comments