

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 56840 - L2 Version 2  
Chandra X-Ray Center

L2 Processing Date : Jun 13 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

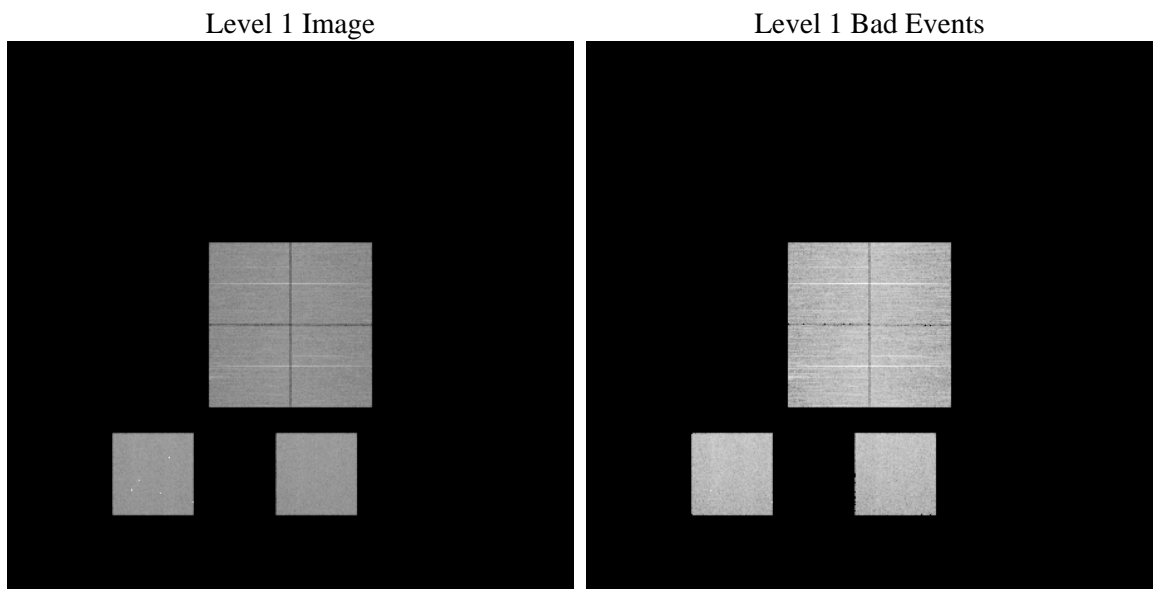
# 1 Front

seq_num	&#160	Sequence number
obs_id	56840	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	320.00776066491	Nominal RA [deg]
dec_nom	-0.028668084665636	Nominal Dec [deg]
roll_nom	260.08706327878	Nominal Roll [deg]
revision	2	Processing version of data
ontime	8274.7193858624	Sum of GTIs [s]
livetime	8169.9399065607	Livetime [s]
ontime0	8274.6783458591	Sum of GTIs [s]
ontime1	8274.6373058558	Sum of GTIs [s]
ontime2	8274.5962658525	Sum of GTIs [s]
ontime3	8274.7604258657	Sum of GTIs [s]
ontime5	8274.5552258492	Sum of GTIs [s]
ontime7	8274.7193858624	Sum of GTIs [s]
l2events	497317	Number of level 2 events

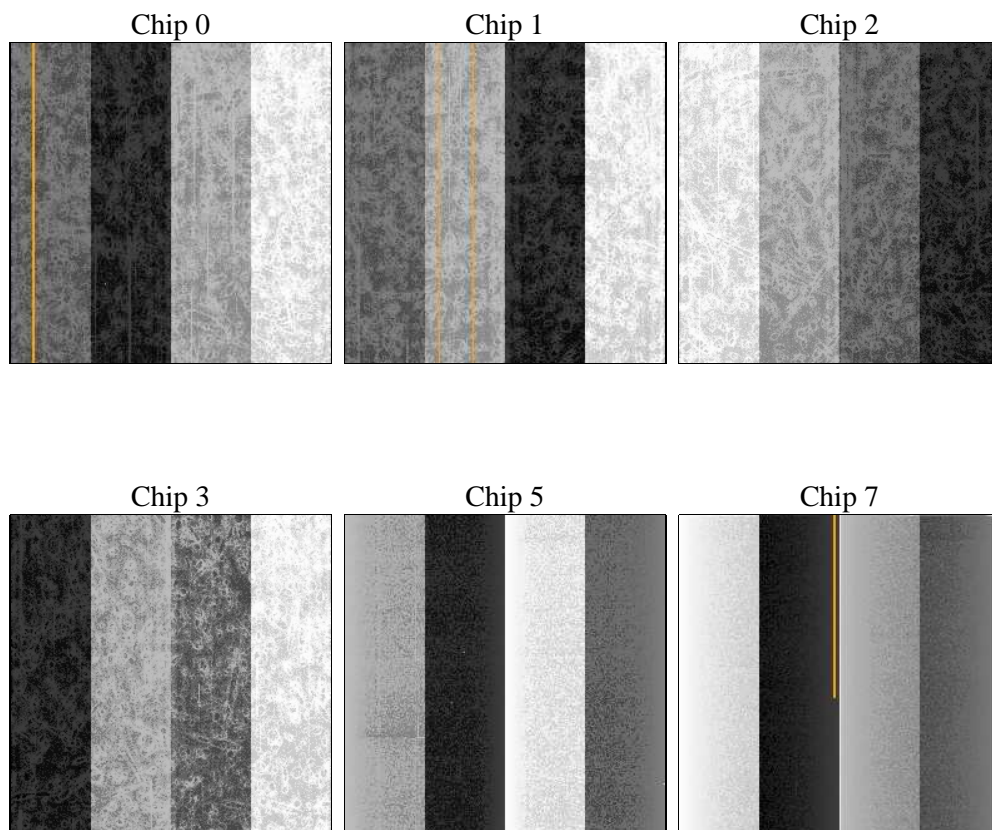
## 2 OBI

### 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	8.4.5	Processing system revision	ontime	8274.7193858624	Sum of GTIs [s]
caldsver	4.4.10	&#160	ontime0	8274.6783458591	Sum of GTIs [s]
date	2012-06-13T05:36:03	Date and time of file creation	ontime1	8274.6373058558	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	8274.5962658525	Sum of GTIs [s]
			ontime3	8274.7604258657	Sum of GTIs [s]
			ontime5	8274.5552258492	Sum of GTIs [s]
			ontime7	8274.7193858624	Sum of GTIs [s]
			l1events	976504	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	146764	148407	152710	151573	191936	185114	grade 0 events	39201	38785	39772	40197	18940	20625
rejected events	73215	74062	79292	77584	74274	72043		26%	26%	26%	26%	9%	11%
rejected %	49%	49%	51%	51%	38%	38%	grade 1 events	307	233	355	318	313	176
								0%	0%	0%	0%	0%	0%
							grade 2 events	13265	14121	12851	12885	41117	24713
								9%	9%	8%	8%	21%	13%
							grade 3 events	4980	4994	4999	5111	5334	10386
								3%	3%	3%	3%	2%	5%
							grade 4 events	4893	4973	5116	5001	5275	10357
								3%	3%	3%	3%	2%	5%
							grade 5 events	4125	4369	3886	4729	10156	11736
								2%	2%	2%	3%	5%	6%
							grade 6 events	11235	11503	10711	10822	47050	47028
								7%	7%	7%	7%	24%	25%
							grade 7 events	68758	69429	75020	72510	63751	60093
								46%	46%	49%	47%	33%	32%

## 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	320.0077606649092	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	-0.02866808466563581	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	260.0870632787768	[s] Primary exposure time	3.2	3.2
[mm] SIM focus pos	-1.429586	-0.7809083437167272			
[mm] SIM defocus	0.1037507710433287	0.7524282956875696			
[mm] SIM translation stage pos	250.455976	250.466033080201			
[mm] SIM translation stage offset	0	-0.01005468664627074			
[s] Observation start time (MET)	368967081.109288	368967080.08429			
Observation start date	2009-09-10T10:51:21	2009-09-10T10:51:20			
[s] Observation end time (MET)	368987386.360307	368987385.33531			
Observation end date	2009-09-10T16:29:46	2009-09-10T16:29:45			
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)	2012.06.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.2747193858624

### **A.2 Comments**