

# V&V Reference Report

## L2 ASCDS Version : 8.5

Observation 60021 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Dec 9 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

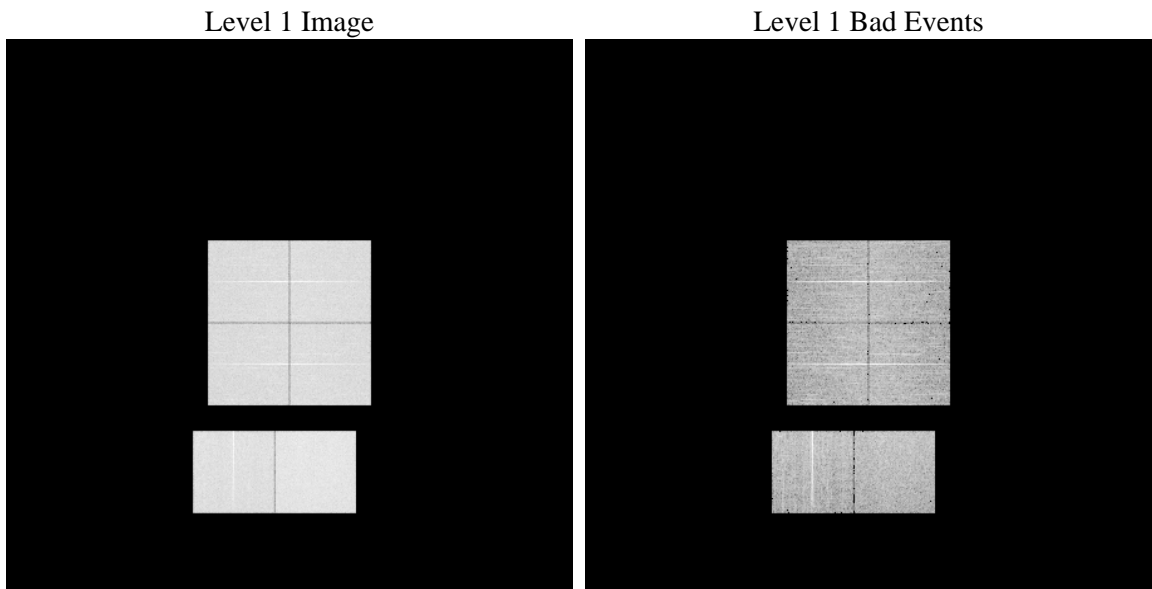
# 1 Front

seq_num	&#160	Sequence number
obs_id	60021	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	13.018233809356	Nominal RA [deg]
dec_nom	-7.9778175742125	Nominal Dec [deg]
roll_nom	17.938593587845	Nominal Roll [deg]
revision	3	Processing version of data
ontime	7801.5999709368	Sum of GTIs [s]
livetime	7702.8114145452	Livetime [s]
ontime0	6177.8677877784	Sum of GTIs [s]
ontime1	6365.8448338807	Sum of GTIs [s]
ontime2	5963.9629793465	Sum of GTIs [s]
ontime3	6136.8785546124	Sum of GTIs [s]
ontime6	6662.1227311194	Sum of GTIs [s]
ontime7	7801.5999709368	Sum of GTIs [s]
l2events	1077178	Number of level 2 events

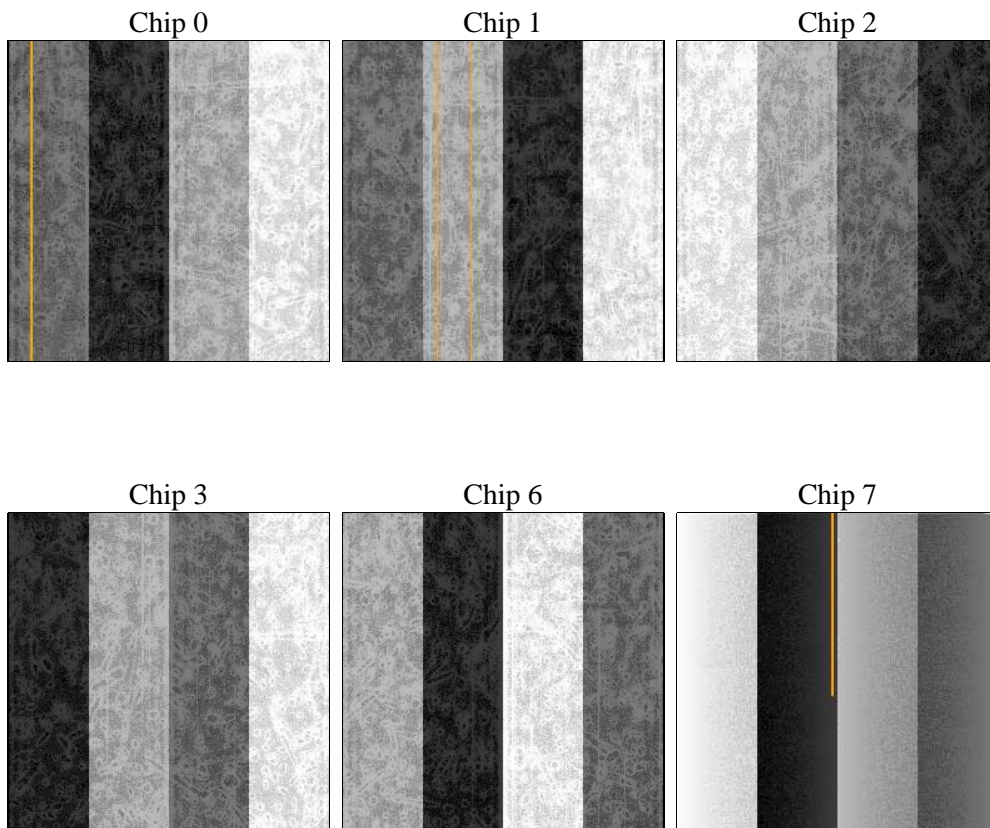
## 2 OBI

### 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	Processing system revision	ontime	7801.5999709368	Sum of GTIs [s]
caldbver	4.5.4	&#160	ontime0	6177.8677877784	Sum of GTIs [s]
date	2012-12-09T19:27:47	Date and time of file creation	ontime1	6365.8448338807	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	5963.9629793465	Sum of GTIs [s]
			ontime3	6136.8785546124	Sum of GTIs [s]
			ontime6	6662.1227311194	Sum of GTIs [s]
			ontime7	7801.5999709368	Sum of GTIs [s]
			l1events	1413804	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	217357	222581	213578	220124	247354	292810	grade 0 events	95049	97076	93936	96955	105985	58563
rejected events	44750	45117	45496	46604	51521	49164		43%	43%	43%	44%	42%	20%
rejected %	20%	20%	21%	21%	20%	16%	grade 1 events	546	513	616	615	555	196
								0%	0%	0%	0%	0%	0%
							grade 2 events	30114	31626	28260	29711	33880	53851
								13%	14%	13%	13%	13%	18%
							grade 3 events	11181	11233	11094	11312	12297	24278
								5%	5%	5%	5%	4%	8%
							grade 4 events	11079	11143	11149	11442	12278	23997
								5%	5%	5%	5%	4%	8%
							grade 5 events	2749	2975	2642	3159	3262	8662
								1%	1%	1%	1%	1%	2%
							grade 6 events	25184	26386	23643	24100	31393	82957
								11%	11%	11%	10%	12%	28%
							grade 7 events	41455	41629	42238	42830	47704	40306
								19%	18%	19%	19%	19%	13%

## 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	13.0182338093564	Alternating exposures requested	N	N
[deg] Pointing Dec	0	-7.977817574212486	[s] Primary exposure time	3.2	3.2
[deg] Pointing Roll	0.0	17.93859358784513			
[mm] SIM focus pos	-0.782348	-0.6828225247311905			
[mm] SIM defocus	0	0.8505141146731063			
[mm] SIM translation stage pos	-233.592463	250.466033080201			
[mm] SIM translation stage offset	0	-0.01005468664627074			
[s] Observation start time (MET)	213144059.087807	213144058.06279			
Observation start date	2004-10-02T22:40:59	2004-10-02T22:40:58			
[s] Observation end time (MET)	213163878.488694	213163877.46368			
Observation end date	2004-10-03T04:11:18	2004-10-03T04:11:17			
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)	2013.01.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.8015999709368

### A.2 Comments