

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 61002 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Oct 15 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

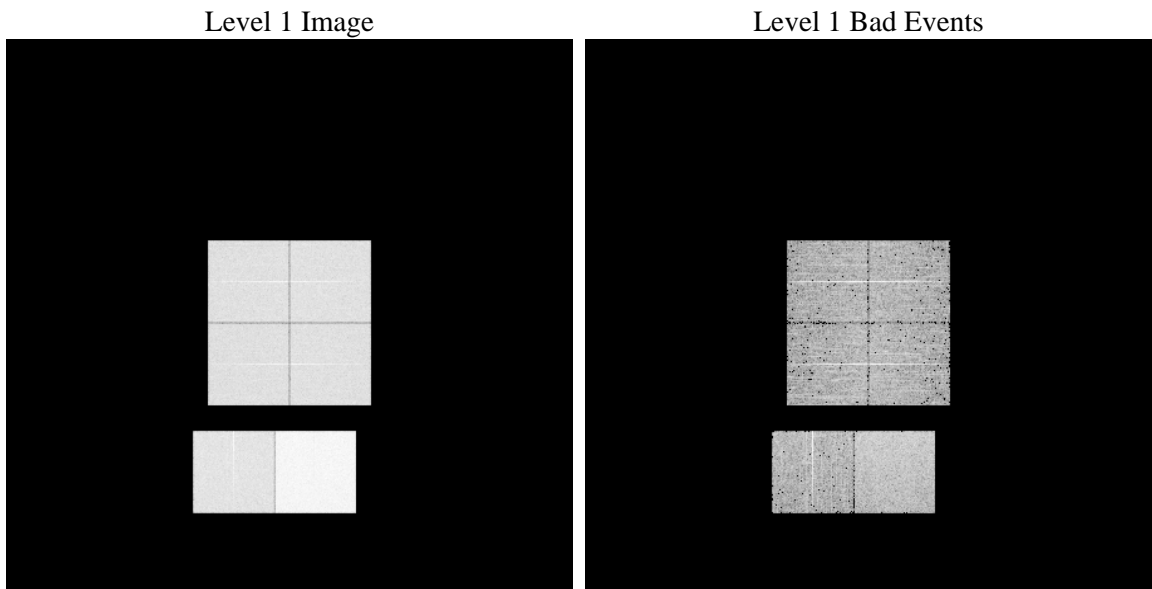
# 1 Front

seq_num	&#160	Sequence number
obs_id	61002	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	0.023810097574028	Nominal RA [deg]
dec_nom	-0.015832060005134	Nominal Dec [deg]
roll_nom	293.53638613606	Nominal Roll [deg]
revision	3	Processing version of data
ontime	7795.1999709606	Sum of GTIs [s]
livetime	7696.4924552224	Livetime [s]
ontime0	3799.0742297173	Sum of GTIs [s]
ontime1	3846.2508096993	Sum of GTIs [s]
ontime2	3598.1316229105	Sum of GTIs [s]
ontime3	3695.3620459437	Sum of GTIs [s]
ontime6	4064.8362821341	Sum of GTIs [s]
ontime7	7795.1999709606	Sum of GTIs [s]
l2events	1197300	Number of level 2 events

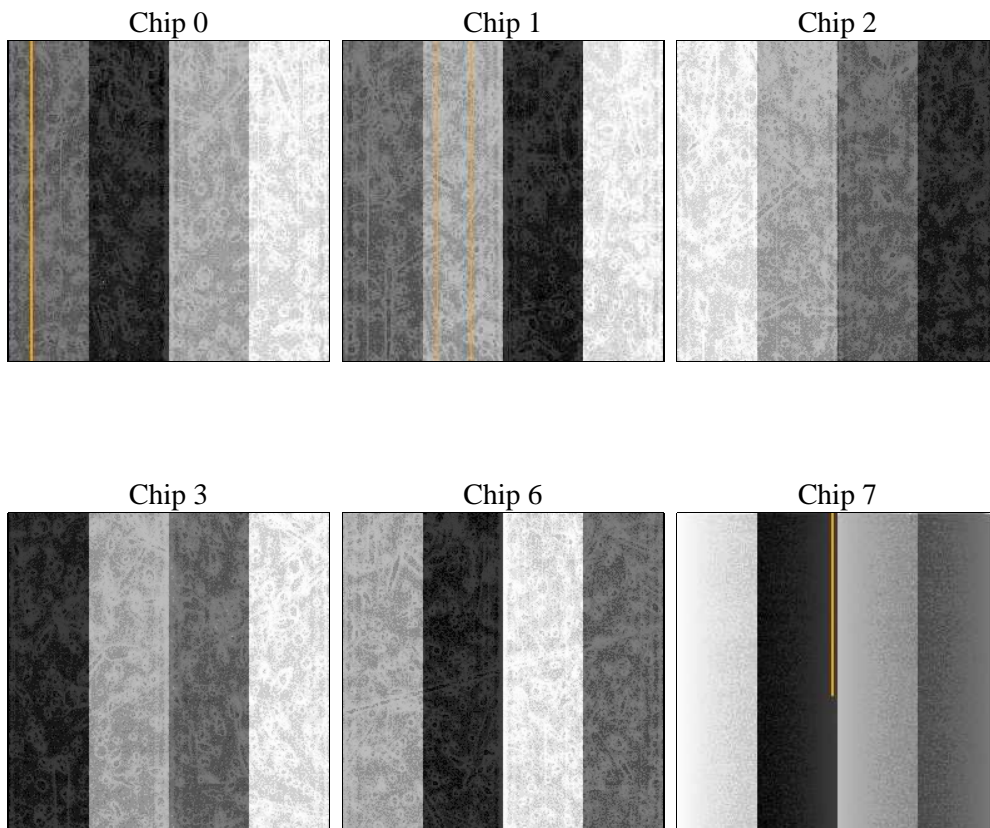
## 2 OBI

### 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	7795.1999709606	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime0	3799.0742297173	Sum of GTIs [s]
date	2012-10-15T15:27:20	Date and time of file creation	ontime1	3846.2508096993	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	3598.1316229105	Sum of GTIs [s]
			ontime3	3695.3620459437	Sum of GTIs [s]
			ontime6	4064.8362821341	Sum of GTIs [s]
			ontime7	7795.1999709606	Sum of GTIs [s]
			l1events	1432941	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	198136	201702	192944	197795	223626	418738	grade 0 events	94664	96257	93176	95541	105705	94677
rejected events	26754	26802	27572	28067	29705	43686		47%	47%	48%	48%	47%	22%
rejected %	13%	13%	14%	14%	13%	10%	grade 1 events	568	448	568	577	573	268
								0%	0%	0%	0%	0%	0%
							grade 2 events	29670	30939	28204	29126	33716	83222
								14%	15%	14%	14%	15%	19%
							grade 3 events	11067	11231	10752	11039	12120	38082
								5%	5%	5%	5%	5%	9%
							grade 4 events	10977	11191	10629	11144	12100	38018
								5%	5%	5%	5%	5%	9%
							grade 5 events	1831	1920	1884	1890	2221	8474
								0%	0%	0%	0%	0%	2%
							grade 6 events	25139	25282	22767	23046	30446	121211
								12%	12%	11%	11%	13%	28%
							grade 7 events	24220	24434	24964	25432	26745	34786
								12%	12%	12%	12%	11%	8%

## 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	0.02381009757402808	Alternating exposures requested	N	N
[deg] Pointing Dec	0	-0.01583206000513393	[s] Primary exposure time	3.2	3.2
[deg] Pointing Roll	0.0	293.5363861360608			
[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)	150775516.500895	150775515.47618			
Observation start date	2002-10-12T02:05:17	2002-10-12T02:05:15			
[s] Observation end time (MET)	150810626.85235	150810625.82764			
Observation end date	2002-10-12T11:50:27	2002-10-12T11:50:25			
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)	2012.10.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.7951999709606

### A.2 Comments