

# V&V Reference Report

## L2 ASCDS Version : 8.5

Observation 60128 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Dec 6 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

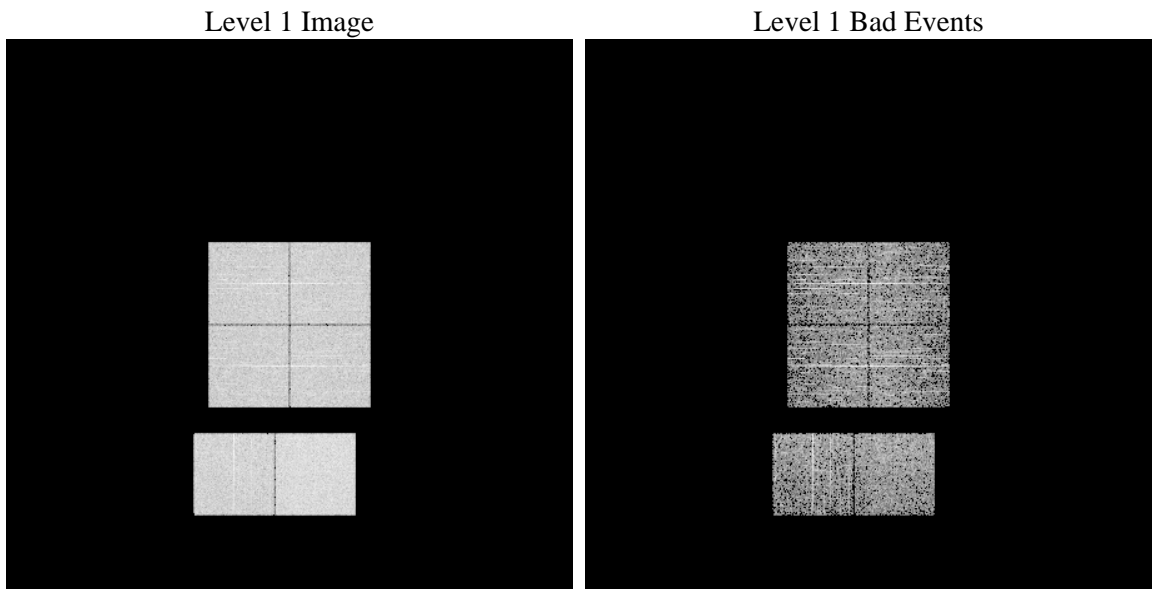
# 1 Front

seq_num	&#160	Sequence number
obs_id	60128	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	44.947427185037	Nominal RA [deg]
dec_nom	-37.338018240868	Nominal Dec [deg]
roll_nom	116.71403877424	Nominal Roll [deg]
revision	3	Processing version of data
ontime	2517.324696511	Sum of GTIs [s]
livetime	2485.4488154529	Livetime [s]
ontime0	2058.0446519852	Sum of GTIs [s]
ontime1	2066.7465967238	Sum of GTIs [s]
ontime2	1953.2710677683	Sum of GTIs [s]
ontime3	2002.9481764734	Sum of GTIs [s]
ontime6	2147.6888642013	Sum of GTIs [s]
ontime7	2517.324696511	Sum of GTIs [s]
l2events	369051	Number of level 2 events

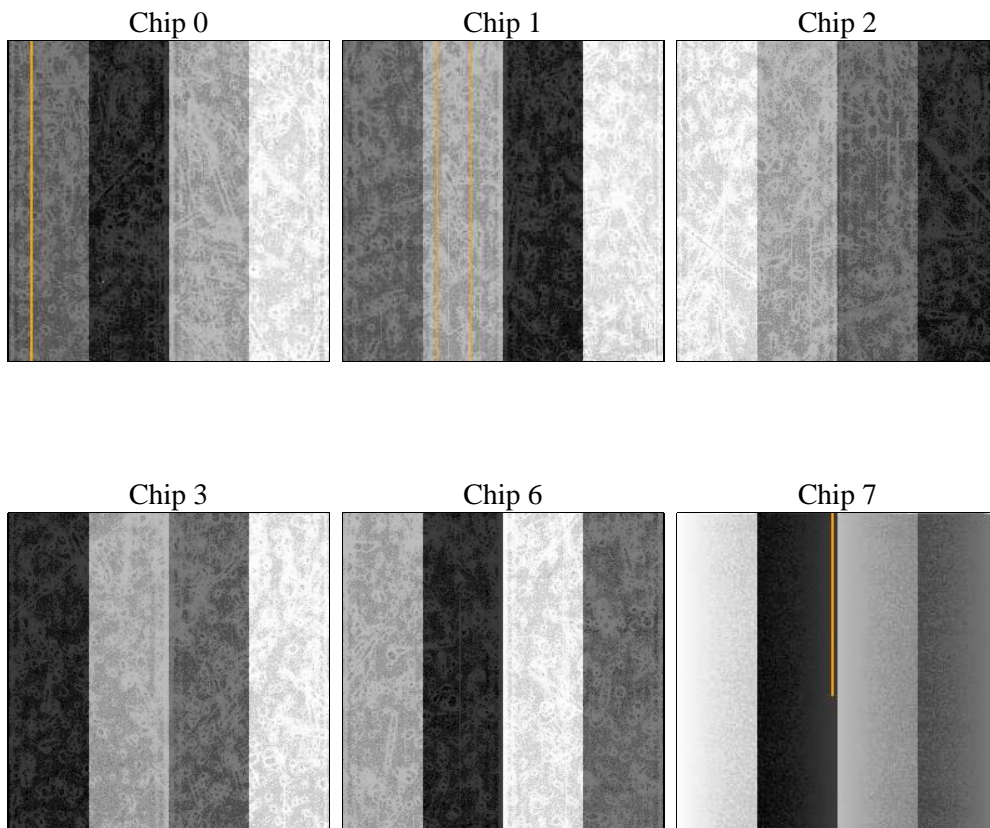
## 2 OBI

### 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	2517.324696511	Sum of GTIs [s]
caldsver	4.5.4	&#160	ontime0	2058.0446519852	Sum of GTIs [s]
date	2012-12-06T10:48:51	Date and time of file creation	ontime1	2066.7465967238	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	1953.2710677683	Sum of GTIs [s]
			ontime3	2002.9481764734	Sum of GTIs [s]
			ontime6	2147.6888642013	Sum of GTIs [s]
			ontime7	2517.324696511	Sum of GTIs [s]
			l1events	474901	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	74732	75625	72802	74419	81016	96307	grade 0 events	33320	33646	32802	33345	35784	20078
rejected events	14263	14250	14102	14782	14791	14851		44%	44%	45%	44%	44%	20%
rejected %	19%	18%	19%	19%	18%	15%	grade 1 events	211	171	206	221	164	51
								0%	0%	0%	0%	0%	0%
							grade 2 events	10664	10788	10111	10228	11359	17876
								14%	14%	13%	13%	14%	18%
							grade 3 events	3888	3961	3684	3912	4152	8206
								5%	5%	5%	5%	5%	8%
							grade 4 events	4000	3879	3953	3914	4063	7932
								5%	5%	5%	5%	5%	8%
							grade 5 events	889	979	859	931	1010	2702
								1%	1%	1%	1%	1%	2%
							grade 6 events	8597	9101	8150	8238	10867	27364
								11%	12%	11%	11%	13%	28%
							grade 7 events	13163	13100	13037	13630	13617	12098
								17%	17%	17%	18%	16%	12%

## 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	44.94742718503687	Alternating exposures requested	N	N
[deg] Pointing Dec	0	-37.33801824086769	[s] Primary exposure time	3.2	3.2
[deg] Pointing Roll	0.0	116.7140387742437			
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.7524282956875696			
[mm] SIM translation stage pos	-233.592463	250.466033080201			
[mm] SIM translation stage offset	0	-0.01005468664627074			
[s] Observation start time (MET)	206521052.042716	206521051.01772			
Observation start date	2004-07-18T06:57:32	2004-07-18T06:57:31			
[s] Observation end time (MET)	206541154.343609	206541153.31861			
Observation end date	2004-07-18T12:32:34	2004-07-18T12:32:33			
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)	2012.12.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.517324696511

### A.2 Comments