

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 61409 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Sep 27 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

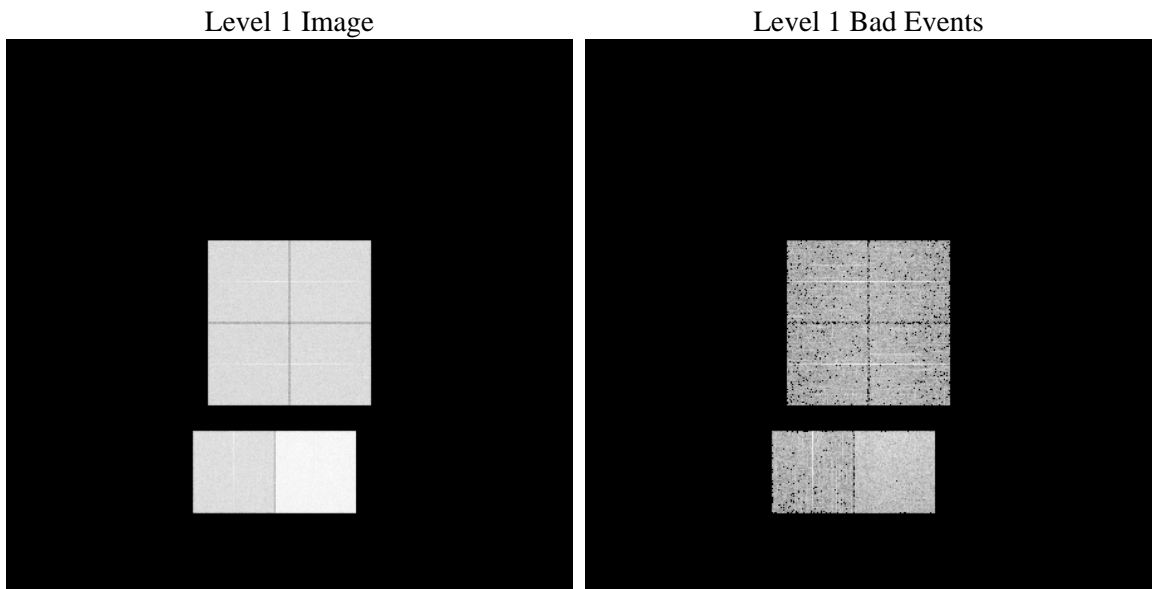
# 1 Front

seq_num	&#160	Sequence number
obs_id	61409	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	123.98450943926	Nominal RA [deg]
dec_nom	35.025677092497	Nominal Dec [deg]
roll_nom	83.539703102679	Nominal Roll [deg]
revision	3	Processing version of data
ontime	7331.1440207511	Sum of GTIs [s]
livetime	7238.3126608754	Livetime [s]
ontime0	2848.870953083	Sum of GTIs [s]
ontime1	2975.2700080723	Sum of GTIs [s]
ontime2	2784.0496550649	Sum of GTIs [s]
ontime3	2880.3683844209	Sum of GTIs [s]
ontime6	3072.5005099028	Sum of GTIs [s]
ontime7	7331.1440207511	Sum of GTIs [s]
l2events	1225398	Number of level 2 events

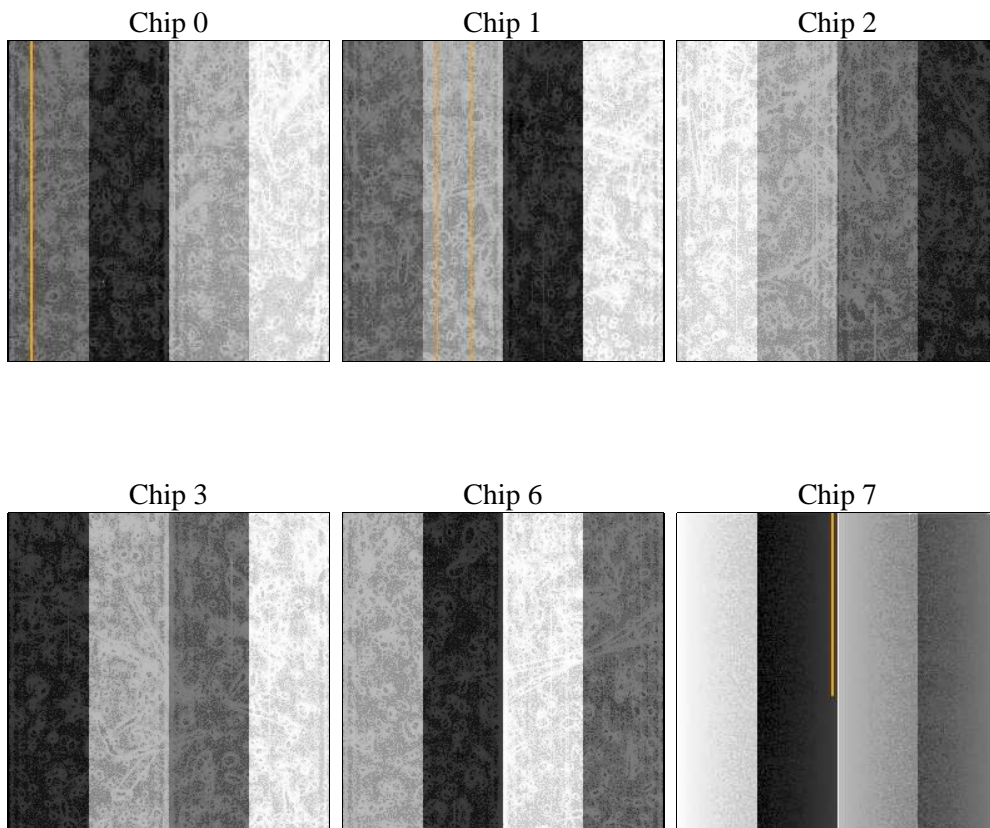
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	0.0	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	7331.1440207511	Sum of GTIs [s]
caldsver	4.5.1.1	&#160	ontime0	2848.870953083	Sum of GTIs [s]
date	2012-09-27T06:49:43	Date and time of file creation	ontime1	2975.2700080723	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	2784.0496550649	Sum of GTIs [s]
			ontime3	2880.3683844209	Sum of GTIs [s]
			ontime6	3072.5005099028	Sum of GTIs [s]
			ontime7	7331.1440207511	Sum of GTIs [s]
			l1events	1420869	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	183924	190651	179905	187660	206782	471947	grade 0 events	89707	94152	88794	92844	100390	111052
rejected events	20919	20396	20333	21904	22695	37947		48%	49%	49%	49%	48%	23%
rejected %	11%	10%	11%	11%	10%	8%	grade 1 events	438	467	443	476	527	321
								0%	0%	0%	0%	0%	0%
							grade 2 events	29075	29878	27891	29133	31955	95676
								15%	15%	15%	15%	15%	20%
							grade 3 events	10354	10882	10235	10545	11327	43934
								5%	5%	5%	5%	5%	9%
							grade 4 events	10307	10644	9994	10335	11222	43790
								5%	5%	5%	5%	5%	9%
							grade 5 events	1462	1528	1449	1597	1790	7766
								0%	0%	0%	0%	0%	1%
							grade 6 events	23562	24699	22658	22899	29193	139548
								12%	12%	12%	12%	14%	29%
							grade 7 events	19019	18401	18441	19831	20378	29860
								10%	9%	10%	10%	9%	6%

## 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	123.9845094392596	Alternating exposures requested	N	N
[deg] Pointing Dec	0	35.02567709249657	[s] Primary exposure time	0.000000	3.2
[deg] Pointing Roll	0.0	83.539703102679			
[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)	122216448.482	122216447.71362			
Observation start date	2001-11-15T13:00:48	2001-11-15T13:00:47			
[s] Observation end time (MET)	122254676.884	122254676.11514			
Observation end date	2001-11-15T23:37:57	2001-11-15T23:37:56			
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)	2012.09.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.3311440207511

### A.2 Comments