

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 61231 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Oct 5 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

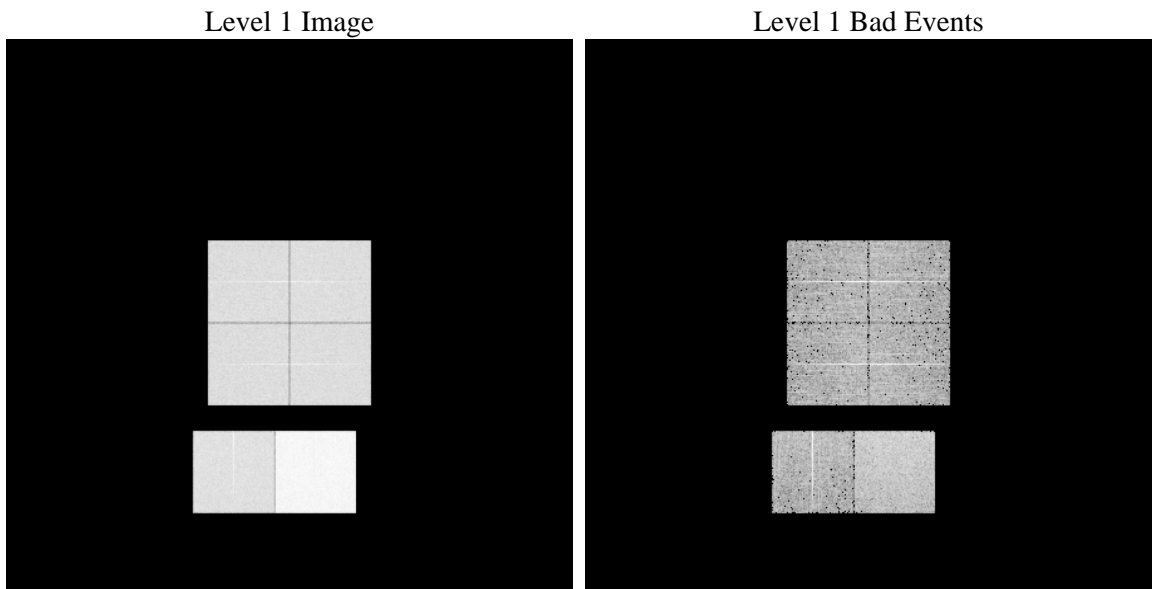
# 1 Front

seq_num	&#160	Sequence number
obs_id	61231	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	349.8622597952	Nominal RA [deg]
dec_nom	55.957778801749	Nominal Dec [deg]
roll_nom	43.326469178051	Nominal Roll [deg]
revision	3	Processing version of data
ontime	8463.9999684691	Sum of GTIs [s]
livetime	8356.8237044595	Livetime [s]
ontime0	3564.4697577059	Sum of GTIs [s]
ontime1	3619.6080881953	Sum of GTIs [s]
ontime2	3460.8387970328	Sum of GTIs [s]
ontime3	3450.9520656168	Sum of GTIs [s]
ontime6	3787.2831451893	Sum of GTIs [s]
ontime7	8463.9999684691	Sum of GTIs [s]
l2events	1329744	Number of level 2 events

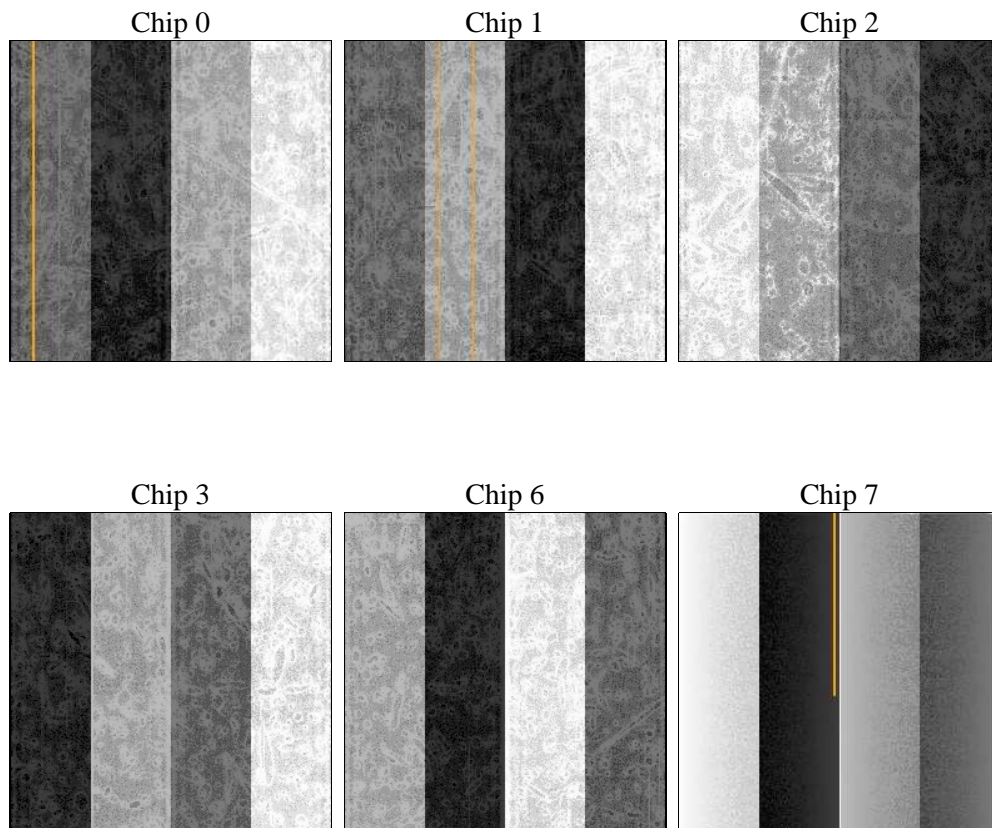
## 2 OBI

### 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	8463.9999684691	Sum of GTIs [s]
caldbver	4.5.2	&#160	ontime0	3564.4697577059	Sum of GTIs [s]
date	2012-10-05T16:27:57	Date and time of file creation	ontime1	3619.6080881953	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	3460.8387970328	Sum of GTIs [s]
			ontime3	3450.9520656168	Sum of GTIs [s]
			ontime6	3787.2831451893	Sum of GTIs [s]
			ontime7	8463.9999684691	Sum of GTIs [s]
			l1events	1561308	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	207323	211709	205109	205177	231649	500341	grade 0 events	100224	102598	99373	100354	111104	114479
rejected events	25053	25235	25719	25685	27408	45596		48%	48%	48%	48%	47%	22%
rejected %	12%	11%	12%	12%	11%	9%	grade 1 events	486	557	499	509	591	296
								0%	0%	0%	0%	0%	0%
							grade 2 events	32239	32965	31666	31332	35435	100101
								15%	15%	15%	15%	15%	20%
							grade 3 events	11482	11801	11357	11382	12538	46444
								5%	5%	5%	5%	5%	9%
							grade 4 events	11729	11890	11439	11403	12585	45820
								5%	5%	5%	5%	5%	9%
							grade 5 events	1766	1884	1778	1765	2103	9205
								0%	0%	0%	0%	0%	1%
							grade 6 events	26596	27220	25555	25021	32579	147901
								12%	12%	12%	12%	14%	29%
							grade 7 events	22801	22794	23442	23411	24714	36095
								10%	10%	11%	11%	10%	7%

## 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	349.8622597951963	Alternating exposures requested	N	N
[deg] Pointing Dec	0	55.95777880174854	[s] Primary exposure time	3.2	3.2
[deg] Pointing Roll	0.0	43.32646917805136			
[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)	135276872.164553	135276871.13985			
Observation start date	2002-04-15T16:54:32	2002-04-15T16:54:31			
[s] Observation end time (MET)	135298313.115424	135298312.09072			
Observation end date	2002-04-15T22:51:53	2002-04-15T22:51:52			
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)	2012.10.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.4639999684691

### A.2 Comments