

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 61727 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Sep 11 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

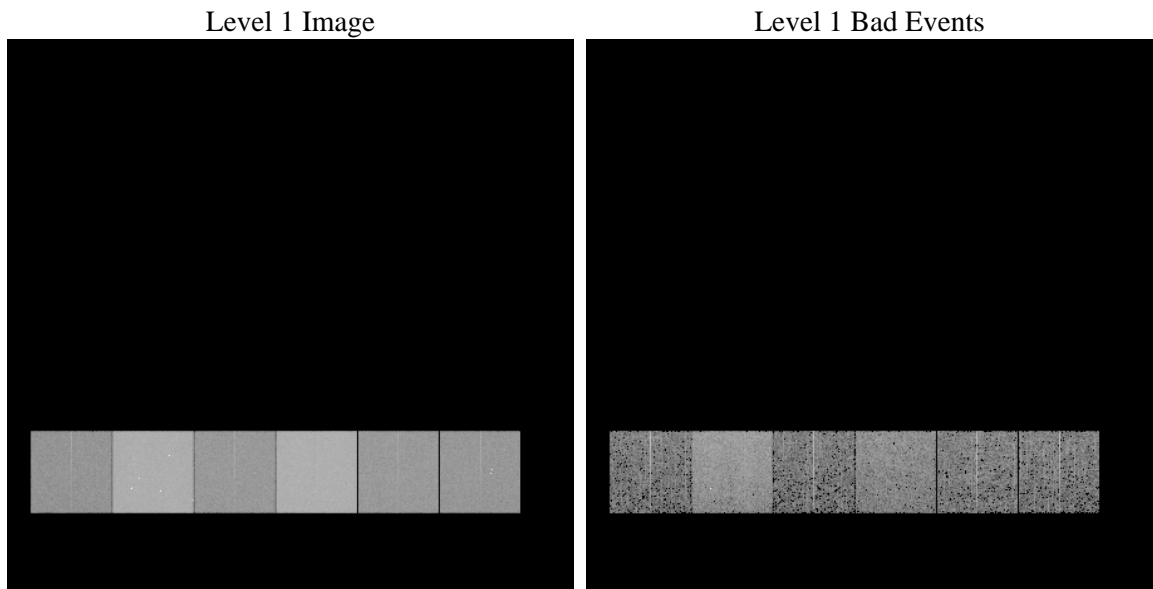
# 1 Front

seq_num	&#160	Sequence number
obs_id	61727	Observation id
title	ACIS-456789 diagnostics	Proposal title
observer	CHANDRA engineering request/realtime commanding	Principal investig
object	&#160	Source name
dtycycle	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	181.01501846559	Nominal RA [deg]
dec_nom	-33.974094368169	Nominal Dec [deg]
roll_nom	31.707673624047	Nominal Roll [deg]
revision	3	Processing version of data
ontime	5042.0051696748	Sum of GTIs [s]
livetime	4978.1602642853	Livetime [s]
ontime4	1972.8943368495	Sum of GTIs [s]
ontime5	5344.6612022817	Sum of GTIs [s]
ontime6	2215.9310470372	Sum of GTIs [s]
ontime7	5042.0051696748	Sum of GTIs [s]
ontime8	2219.2541969568	Sum of GTIs [s]
ontime9	2115.3357968926	Sum of GTIs [s]
l2events	1227000	Number of level 2 events

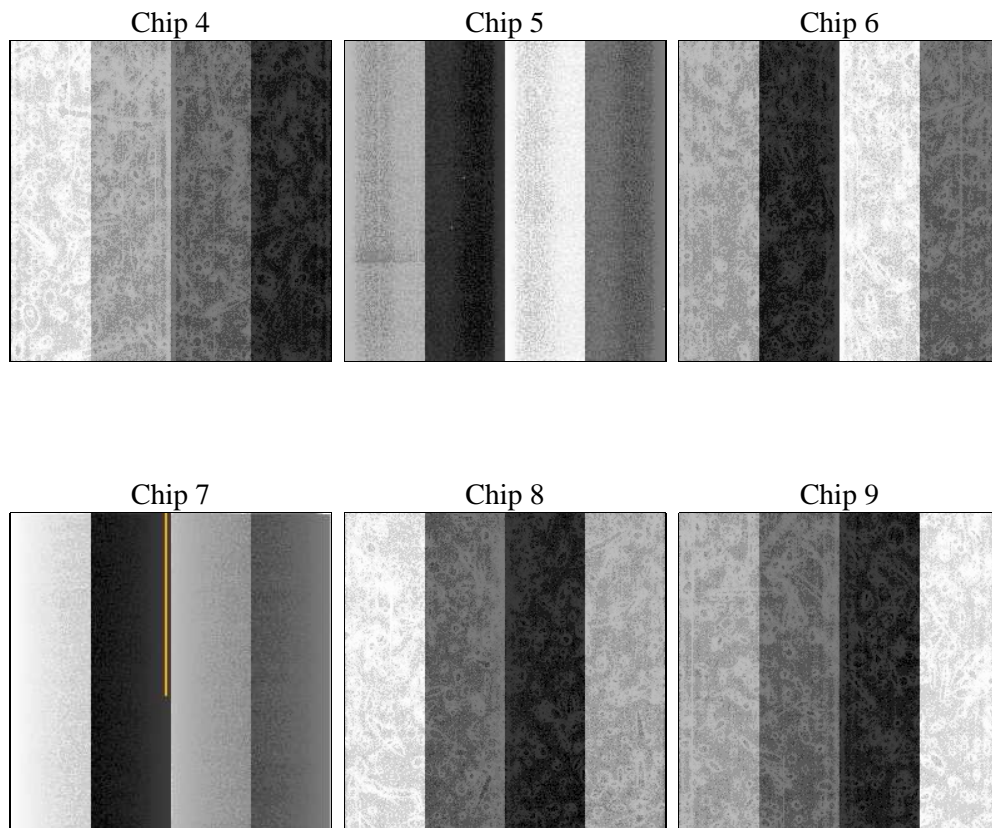
## 2 OBI

### 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	5042.0051696748	Sum of GTIs [s]
caldbver	4.5.1.1	&#160	ontime4	1972.8943368495	Sum of GTIs [s]
date	2012-09-12T00:18:43	Date and time of file creation	ontime5	5344.6612022817	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	2215.9310470372	Sum of GTIs [s]
			ontime7	5042.0051696748	Sum of GTIs [s]
			ontime8	2219.2541969568	Sum of GTIs [s]
			ontime9	2115.3357968926	Sum of GTIs [s]
			l1events	1424746	Number of level 1 events

### 2.1.4 Events

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	148491	371548	176736	382093	180218	165660	grade 0 events	74100	80108	87203	90984	88345	79788
rejected events	17391	40613	17045	25958	19673	18219		49%	21%	49%	23%	49%	48%
rejected %	11%	10%	9%	6%	10%	10%	grade 1 events	415	291	430	250	392	396
								0%	0%	0%	0%	0%	0%
							grade 2 events	23218	120696	27961	78653	28134	27292
								15%	32%	15%	20%	15%	16%
							grade 3 events	7985	20633	9733	36304	10211	9020
								5%	5%	5%	9%	5%	5%
							grade 4 events	7957	19982	9657	35812	10208	9117
								5%	5%	5%	9%	5%	5%
							grade 5 events	1141	7953	1398	5776	1491	1356
								0%	2%	0%	1%	0%	0%
							grade 6 events	17840	89691	25137	114382	23647	22224
								12%	24%	14%	29%	13%	13%
							grade 7 events	15835	32194	15217	19932	17790	16467
								10%	8%	8%	5%	9%	9%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-456789	ACIS-456789	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	181.015018465592	Alternating exposures requested	N	N
[deg] Pointing Dec	0	-33.97409436816871	[s] Primary exposure time	0.000000	3.2
[deg] Pointing Roll	0.0	31.70767362404744			
[mm] SIM focus pos	-0.684267	-0.7809083437167272			
[mm] SIM defocus	0	0.7524282956875696			
[mm] SIM translation stage pos	-190.132523	250.466033080201			
[mm] SIM translation stage offset	0	-0.01005468664627074			
[s] Observation start time (MET)	99370154.93700001	99370154.168634			
Observation start date	2001-02-24T02:49:15	2001-02-24T02:49:14			
[s] Observation end time (MET)	99381969.088	99381968.31908999			
Observation end date	2001-02-24T06:06:09	2001-02-24T06:06:08			
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)	2012.09.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.0420051696748

## A.2 Comments