

# V&V Reference Report

## L2 ASCDS Version : 8.5.1

Observation 59877 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Dec 16 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

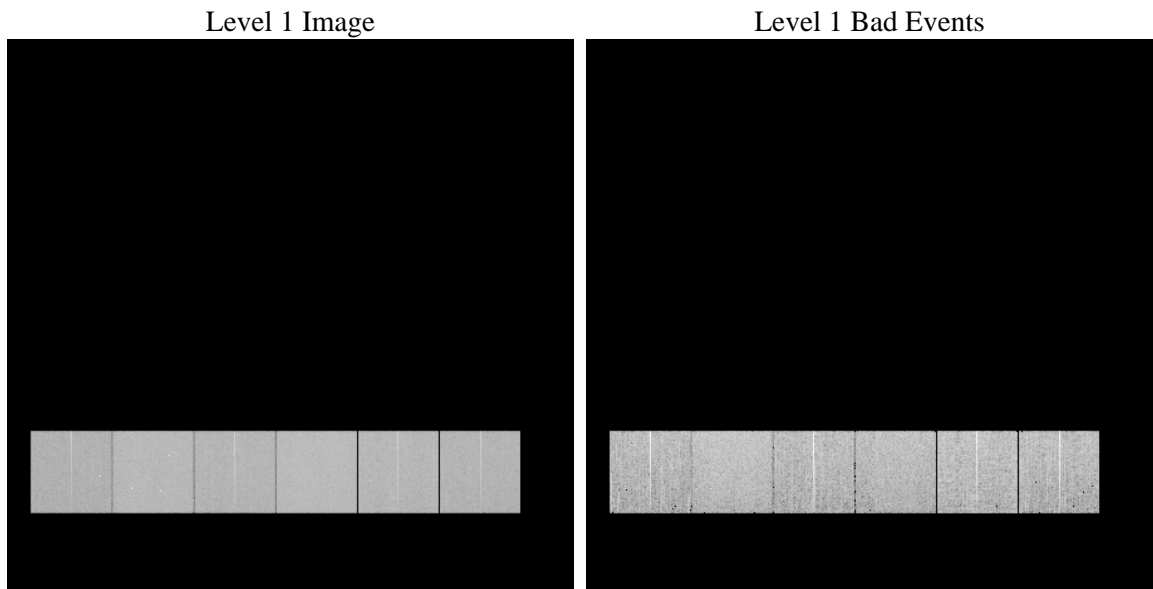
# 1 Front

seq_num	&#160	Sequence number
obs_id	59877	Observation id
title	ACIS-456789 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	91.015640849989	Nominal RA [deg]
dec_nom	23.975216603478	Nominal Dec [deg]
roll_nom	267.12846058808	Nominal Roll [deg]
revision	3	Processing version of data
ontime	8181.1394846737	Sum of GTIs [s]
livetime	8077.544970428	Livetime [s]
ontime4	6268.8400672078	Sum of GTIs [s]
ontime5	8181.0984446704	Sum of GTIs [s]
ontime6	6946.2452651858	Sum of GTIs [s]
ontime7	8181.1394846737	Sum of GTIs [s]
ontime8	7053.1156940758	Sum of GTIs [s]
ontime9	6774.596839726	Sum of GTIs [s]
l2events	1110002	Number of level 2 events

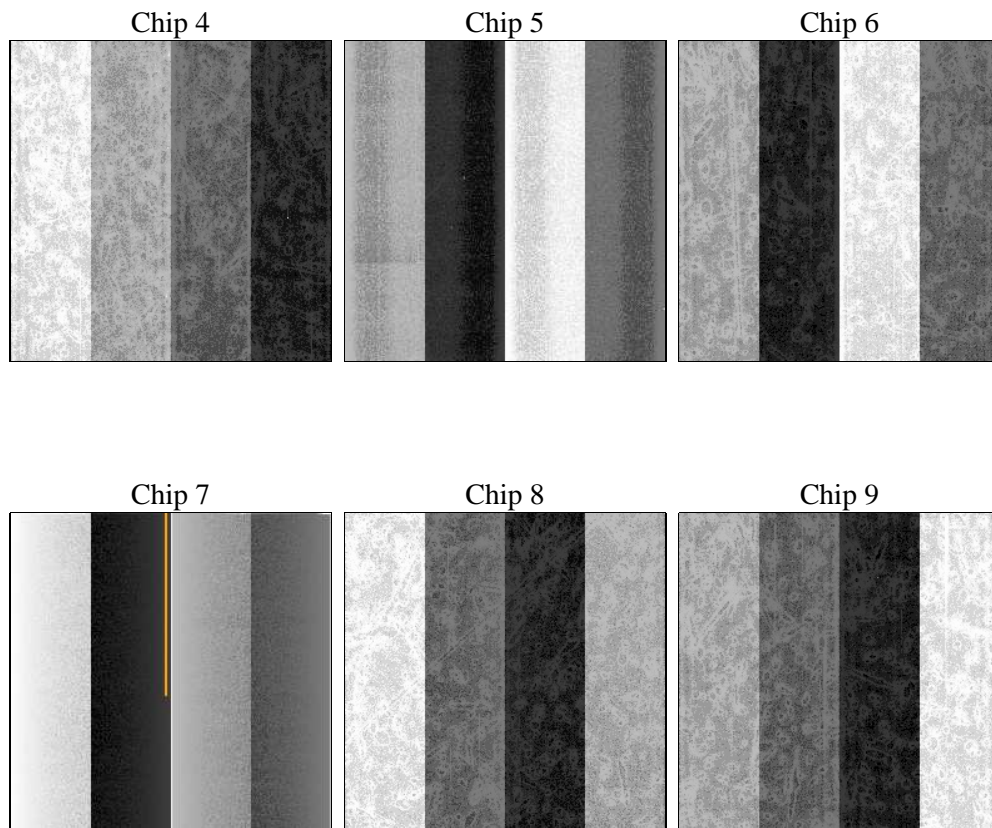
## 2 OBI

### 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	8.5.1	Processing system revision	ontime	8181.1394846737	Sum of GTIs [s]
caldsver	4.5.5	&#160	ontime4	6268.8400672078	Sum of GTIs [s]
date	2012-12-15T22:53:19	Date and time of file creation	ontime5	8181.0984446704	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	6946.2452651858	Sum of GTIs [s]
			ontime7	8181.1394846737	Sum of GTIs [s]
			ontime8	7053.1156940758	Sum of GTIs [s]
			ontime9	6774.596839726	Sum of GTIs [s]
			l1events	1494566	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	209437	268721	240488	287393	258038	230489	grade 0 events	94388	45429	104471	57728	110053	99757
rejected events	49062	57418	50470	49974	57815	51458		45%	16%	43%	20%	42%	43%
rejected %	23%	21%	20%	17%	22%	22%	grade 1 events	739	211	526	178	601	562
								0%	0%	0%	0%	0%	0%
							grade 2 events	25723	77894	32892	53073	35409	31150
								12%	28%	13%	18%	13%	13%
							grade 3 events	10860	12802	12242	24202	13479	11601
								5%	4%	5%	8%	5%	5%
							grade 4 events	10706	12264	12216	24026	13036	11526
								5%	4%	5%	8%	5%	5%
							grade 5 events	2705	8711	3217	8572	3813	3425
								1%	3%	1%	2%	1%	1%
							grade 6 events	20703	65710	30469	81491	30630	27274
								9%	24%	12%	28%	11%	11%
							grade 7 events	43613	45700	44455	38123	51017	45194
								20%	17%	18%	13%	19%	19%

## 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	91.01564084998869	Alternating exposures requested	N	N
[deg] Pointing Dec	0	23.97521660347797	[s] Primary exposure time	3.2	3.2
[deg] Pointing Roll	0.0	267.1284605880753			
[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)	221181873.69858	221181872.67359			
Observation start date	2005-01-03T23:24:34	2005-01-03T23:24:32			
[s] Observation end time (MET)	221204388.849595	221204387.8246			
Observation end date	2005-01-04T05:39:49	2005-01-04T05:39:47			
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)	2013.01.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.1811394846737

### A.2 Comments