

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 61953 - L2 Version 4  
Chandra X-Ray Center

L2 Processing Date : Sep 1 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

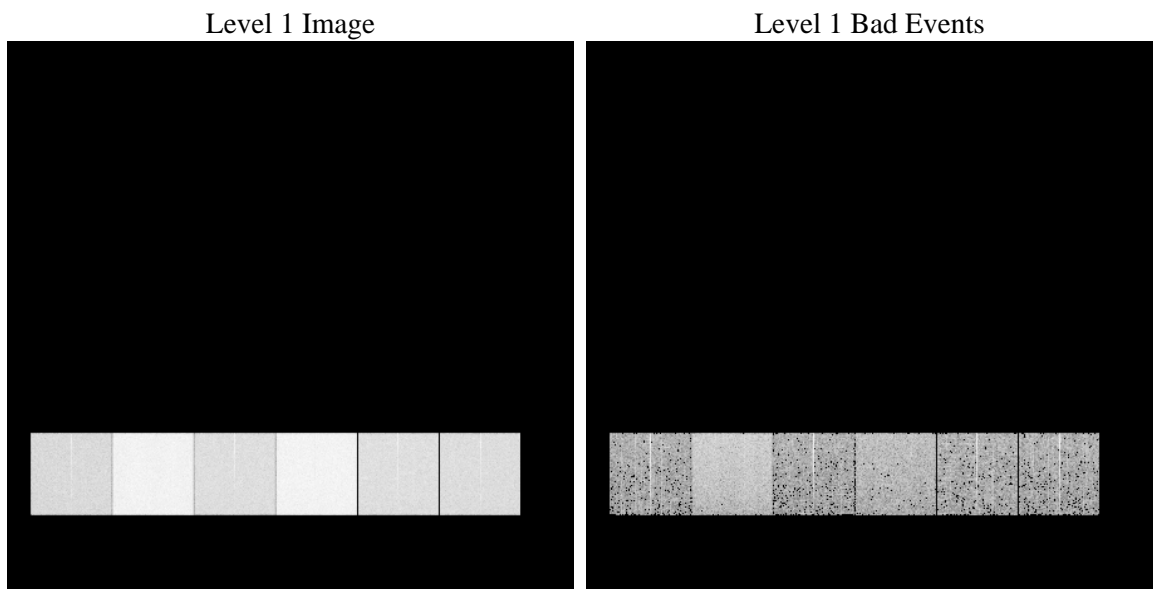
# 1 Front

seq_num	&#160	Sequence number
obs_id	61953	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	176.82861210107	Nominal RA [deg]
dec_nom	-44.384281748639	Nominal Dec [deg]
roll_nom	205.40463344535	Nominal Roll [deg]
revision	4	Processing version of data
ontime	4842.0892574638	Sum of GTIs [s]
livetime	4780.7758077297	Livetime [s]
ontime4	1989.9968994856	Sum of GTIs [s]
ontime5	5243.8344819695	Sum of GTIs [s]
ontime6	2203.9053993374	Sum of GTIs [s]
ontime7	4842.0892574638	Sum of GTIs [s]
ontime8	2242.7978194058	Sum of GTIs [s]
ontime9	2165.0128596127	Sum of GTIs [s]
l2events	1358751	Number of level 2 events

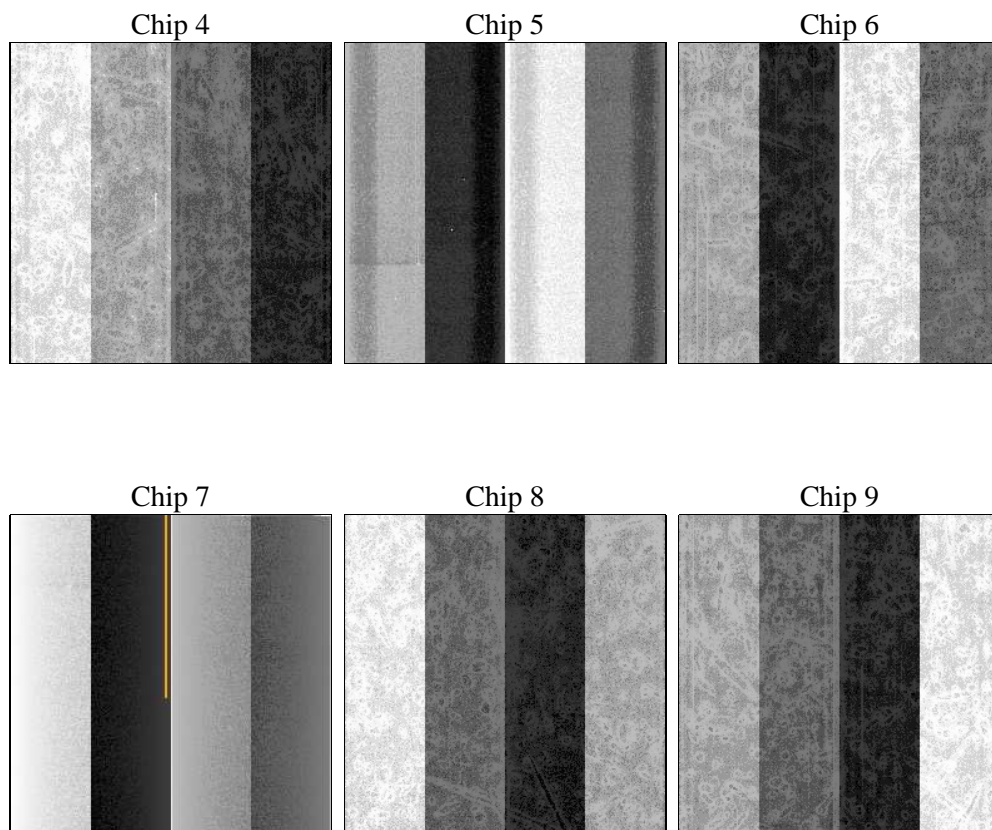
## 2 OBI

### 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	4842.0892574638	Sum of GTIs [s]
caldsver	4.5.1.1	&#160	ontime4	1989.9968994856	Sum of GTIs [s]
date	2012-09-01T04:32:43	Date and time of file creation	ontime5	5243.8344819695	Sum of GTIs [s]
revision	4	Processing version of data	ontime6	2203.9053993374	Sum of GTIs [s]
			ontime7	4842.0892574638	Sum of GTIs [s]
			ontime8	2242.7978194058	Sum of GTIs [s]
			ontime9	2165.0128596127	Sum of GTIs [s]
			l1events	1554875	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	166900	396516	195763	408817	200748	186131	grade 0 events	83918	80533	97519	97978	100587	93039
rejected events	18393	40920	17677	24909	19343	18235		50%	20%	49%	23%	50%	49%
rejected %	11%	10%	9%	6%	9%	9%	grade 1 events	461	261	501	245	478	492
								0%	0%	0%	0%	0%	0%
							grade 2 events	26446	134367	30893	84350	31802	29318
								15%	33%	15%	20%	15%	15%
							grade 3 events	9072	21222	10799	39205	11239	10242
								5%	5%	5%	9%	5%	5%
							grade 4 events	8846	21264	10946	38748	11366	10178
								5%	5%	5%	9%	5%	5%
							grade 5 events	1311	8179	1425	5528	1574	1448
								0%	2%	0%	1%	0%	0%
							grade 6 events	20225	98210	27929	123627	26411	25119
								12%	24%	14%	30%	13%	13%
							grade 7 events	16621	32480	15751	19136	17291	16295
								9%	8%	8%	4%	8%	8%

## 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	176.8286121010741	Alternating exposures requested	N	N
[deg] Pointing Dec	0	-44.38428174863897	[s] Primary exposure time	0.000000	3.2
[deg] Pointing Roll	0.0	205.4046334453503			
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.8505141146731063			
[mm] SIM translation stage pos	-190.132523	250.466033080201			
[mm] SIM translation stage offset	0	-0.01005468664627074			
[s] Observation start time (MET)	83652158.589	83652157.820271			
Observation start date	2000-08-26T04:42:39	2000-08-26T04:42:37			
[s] Observation end time (MET)	83662668.939	83662668.170665			
Observation end date	2000-08-26T07:37:49	2000-08-26T07:37:48			
Read mode	TIMED	TIMED			

## **2.3 Star Slots**

## **2.4 FID Slots**

## A Summary

### A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.09.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.8420892574638

### A.2 Comments