

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 58201 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : May 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

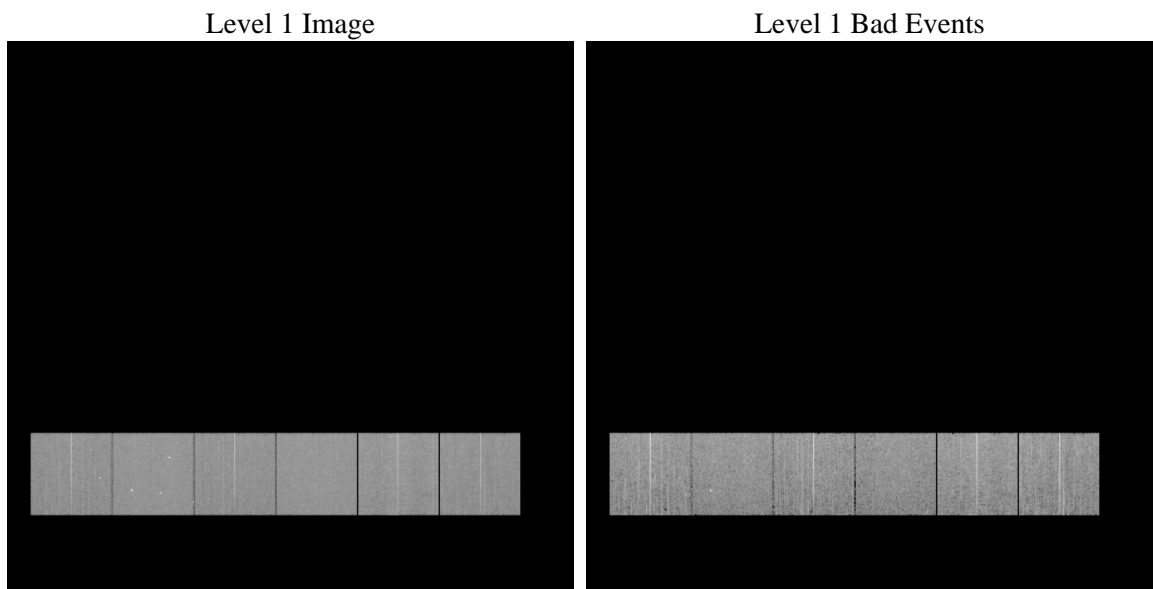
# 1 Front

seq_num	&#160	Sequence number
obs_id	58201	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	11.440537662004	Nominal RA [deg]
dec_nom	25.045369632939	Nominal Dec [deg]
roll_nom	152.52072017692	Nominal Roll [deg]
revision	3	Processing version of data
ontime	7672.1993055344	Sum of GTIs [s]
livetime	7575.0492982839	Livetime [s]
ontime4	7672.0761855245	Sum of GTIs [s]
ontime5	7672.1582655311	Sum of GTIs [s]
ontime6	7672.1172255278	Sum of GTIs [s]
ontime7	7672.1993055344	Sum of GTIs [s]
ontime8	7672.0351455212	Sum of GTIs [s]
ontime9	7672.2403455377	Sum of GTIs [s]
l2events	661138	Number of level 2 events

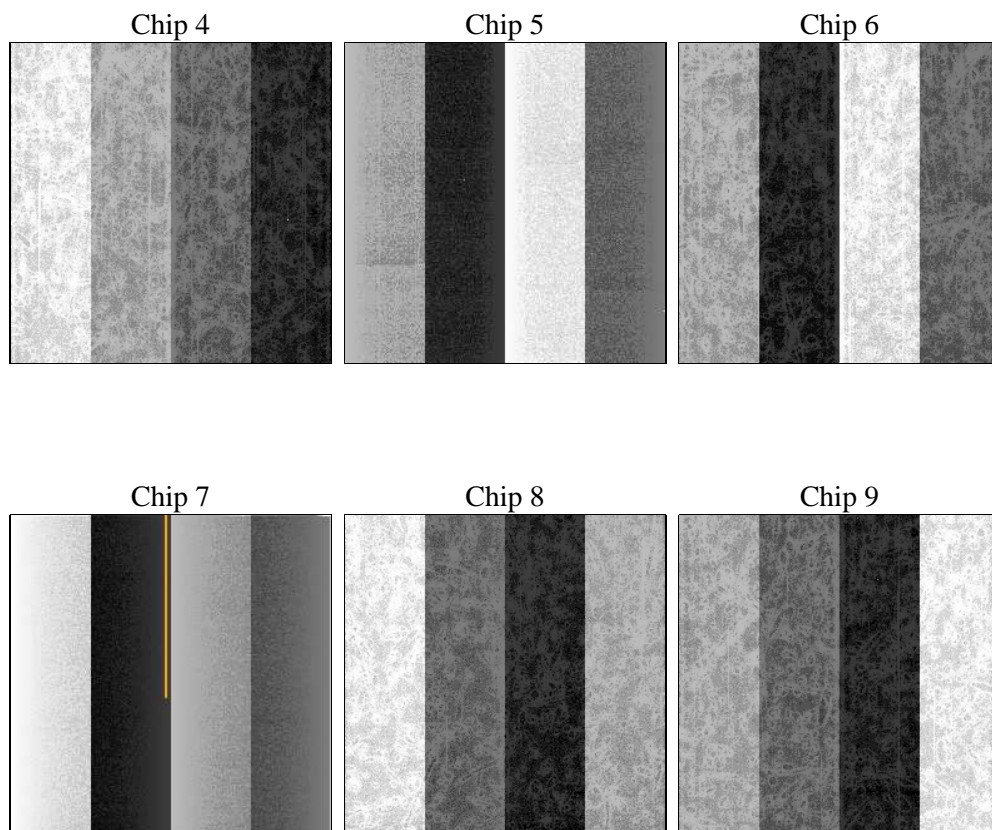
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	6420	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	7672.1993055344	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime4	7672.0761855245	Sum of GTIs [s]
date	2012-05-01T21:43:18	Date and time of file creation	ontime5	7672.1582655311	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	7672.1172255278	Sum of GTIs [s]
			ontime7	7672.1993055344	Sum of GTIs [s]
			ontime8	7672.0351455212	Sum of GTIs [s]
			ontime9	7672.2403455377	Sum of GTIs [s]
			l1events	1153643	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	180066	204004	183261	201962	203452	180898	grade 0 events	60810	25204	59842	29297	64242	58863
rejected events	76276	69115	73121	64265	80145	73968		33%	12%	32%	14%	31%	32%
rejected %	42%	33%	39%	31%	39%	40%	grade 1 events	619	219	387	176	408	410
								0%	0%	0%	0%	0%	0%
							grade 2 events	16735	48728	19791	30390	22828	18837
								9%	23%	10%	15%	11%	10%
							grade 3 events	7160	6663	7172	13535	8962	7038
								3%	3%	3%	6%	4%	3%
							grade 4 events	7172	6759	7278	13228	8928	7197
								3%	3%	3%	6%	4%	3%
							grade 5 events	3858	9497	4075	10272	5169	4460
								2%	4%	2%	5%	2%	2%
							grade 6 events	13642	49647	17799	53556	20366	16657
								7%	24%	9%	26%	10%	9%
							grade 7 events	70070	57287	66917	51508	72549	67436
								38%	28%	36%	25%	35%	37%

## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-456789	ACIS-456789
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	SECONDARY	SECONDARY
[deg] Pointing RA	20.08421747358901	11.44053766200358
[deg] Pointing Dec	25.04536958667401	25.0453696329386
[deg] Pointing Roll	152.5207201531071	152.5207201769169
[mm] SIM focus pos	-1.5263399358	-1.5263399358
[mm] SIM defocus	0.006996627355743357	0.006996627355743357
[mm] SIM translation stage pos	250.4660330802	250.4660330802
[mm] SIM translation stage offset	-0.01005726120527584	-0.01005726120527584
[s] Observation start time (MET)	306816804.444583	306816804.444583
Observation start date	2007-09-22T03:19:00	2007-09-22T02:53:24
[s] Observation end time (MET)	306826323.657091	306826323.657091
Observation end date	2007-09-22T05:06:00	2007-09-22T05:32:03
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	OVERRIDE	OVERRIDE
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	3.2	3.2

## 2.3 Star Slots

## 2.4 FID Slots

## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.05.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.6721993055344

### A.2 Comments