

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 58291 - L2 Version 2  
Chandra X-Ray Center

L2 Processing Date : Apr 29 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

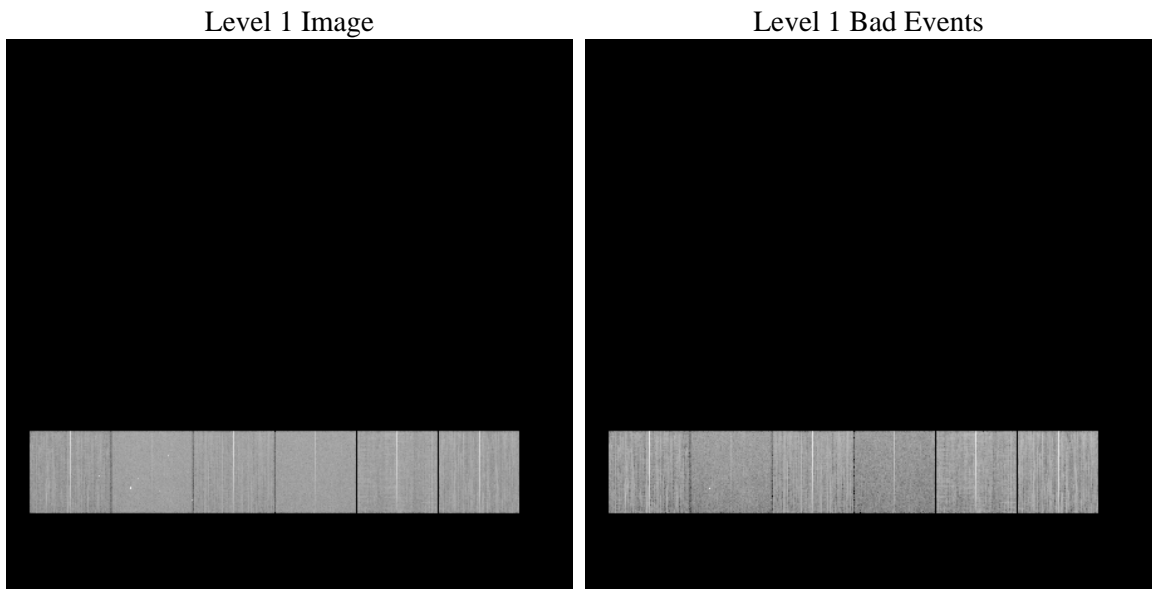
# 1 Front

seq_num	&#160	Sequence number
obs_id	58291	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	344.98810946051	Nominal RA [deg]
dec_nom	-25.473337285152	Nominal Dec [deg]
roll_nom	79.071054991242	Nominal Roll [deg]
revision	2	Processing version of data
ontime	7880.643355608	Sum of GTIs [s]
livetime	7780.8539042855	Livetime [s]
ontime4	5772.2619829774	Sum of GTIs [s]
ontime5	7880.6023156047	Sum of GTIs [s]
ontime6	6315.1621277928	Sum of GTIs [s]
ontime7	7880.643355608	Sum of GTIs [s]
ontime8	6447.960492909	Sum of GTIs [s]
ontime9	6070.4335586429	Sum of GTIs [s]
l2events	620158	Number of level 2 events

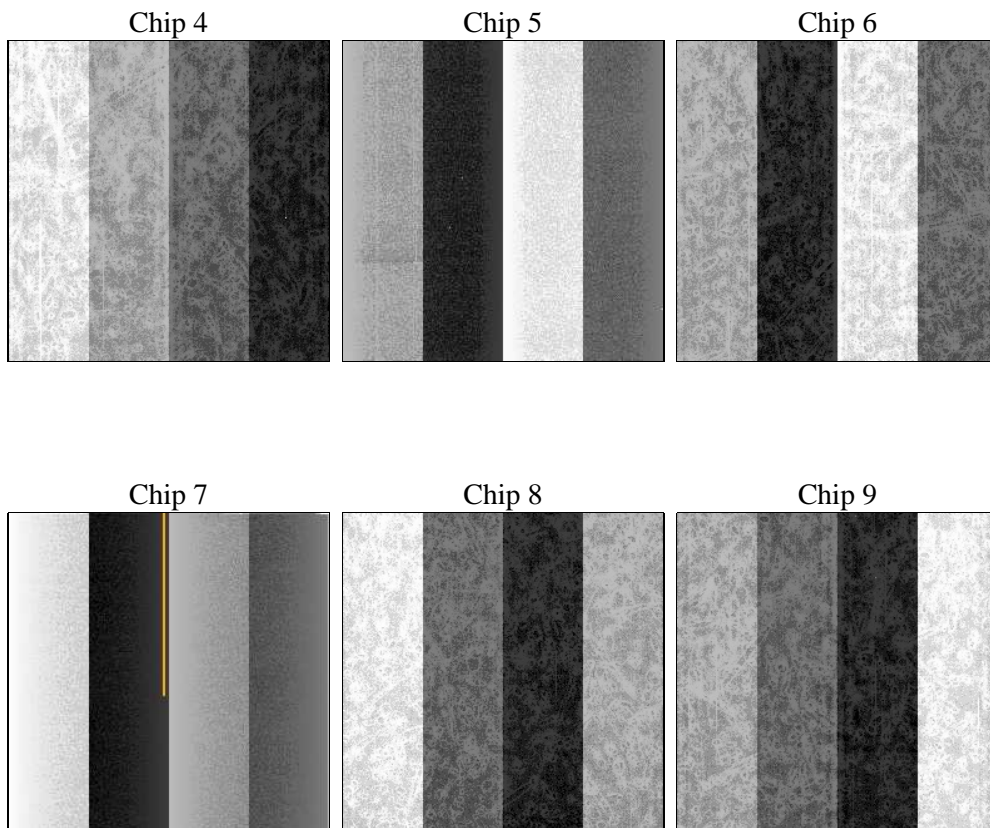
## 2 OBI

### 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	8.4.4	Processing system revision	ontime	7880.643355608	Sum of GTIs [s]
caldbver	4.4.9	&#160	ontime4	5772.2619829774	Sum of GTIs [s]
date	2012-04-29T03:32:00	Date and time of file creation	ontime5	7880.6023156047	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	6315.1621277928	Sum of GTIs [s]
			ontime7	7880.643355608	Sum of GTIs [s]
			ontime8	6447.960492909	Sum of GTIs [s]
			ontime9	6070.4335586429	Sum of GTIs [s]
			l1events	1421791	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	212691	244849	239010	237401	248775	239065	grade 0 events	45575	23108	50155	30377	53945	46737
rejected events	131400	100298	144196	86301	143194	151604		21%	9%	20%	12%	21%	19%
rejected %	61%	40%	60%	36%	57%	63%	grade 1 events	445	273	324	120	371	336
								0%	0%	0%	0%	0%	0%
							grade 2 events	14455	55351	17662	36709	19725	15771
								6%	22%	7%	15%	7%	6%
							grade 3 events	5538	7229	5936	13936	7273	5809
								2%	2%	2%	5%	2%	2%
							grade 4 events	5446	6737	5954	13889	7187	5750
								2%	2%	2%	5%	2%	2%
							grade 5 events	3056	9519	3381	10455	4344	3557
								1%	3%	1%	4%	1%	1%
							grade 6 events	10277	52126	15107	56189	17517	13394
								4%	21%	6%	23%	7%	5%
							grade 7 events	127899	90506	140491	75726	138413	147711
								60%	36%	58%	31%	55%	61%

## 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	344.9881094605124	Alternating exposures requested	N	N
[deg] Pointing Dec	0	-25.47333728515188	[s] Primary exposure time	3.2	3.2
[deg] Pointing Roll	0.0	79.07105499124161			
[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)	302703352.146864	302703351.12186			
Observation start date	2007-08-05T12:15:52	2007-08-05T12:15:51			
[s] Observation end time (MET)	302723130.547814	302723129.52281			
Observation end date	2007-08-05T17:45:31	2007-08-05T17:45:29			
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)	2012.05.01
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.880643355608

### A.2 Comments