

# V&V Reference Report

## L2 ASCDS Version : 8.4.3

Observation 59102 - L2 Version 2  
Chandra X-Ray Center

L2 Processing Date : Mar 26 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

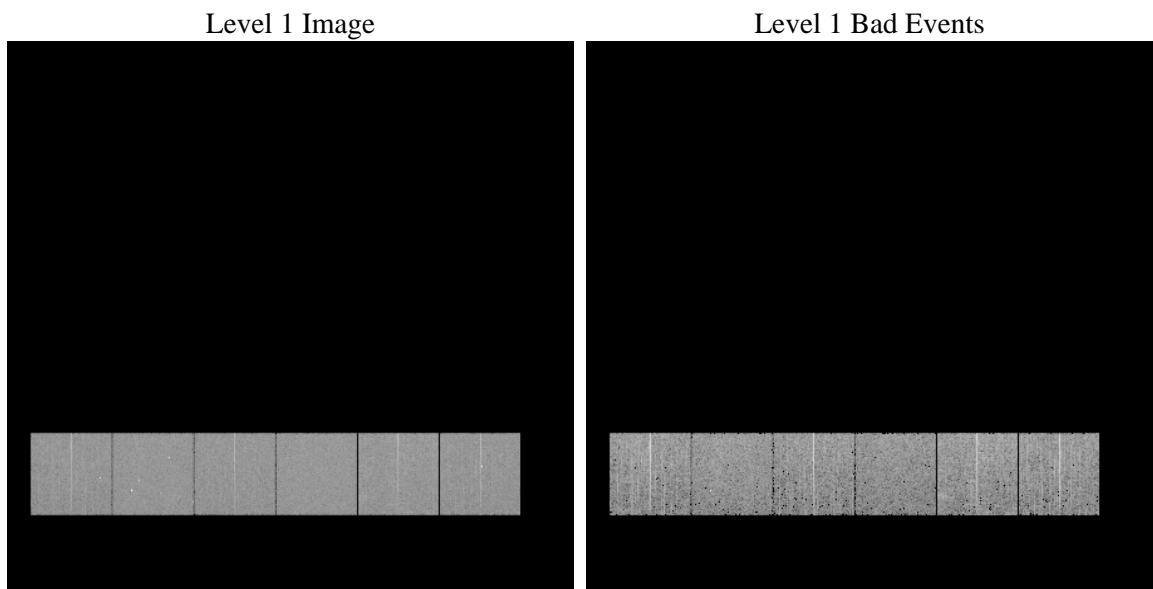
# 1 Front

seq_num	&#160	Sequence number
obs_id	59102	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	149.72857776847	Nominal RA [deg]
dec_nom	-2.5016090818086	Nominal Dec [deg]
roll_nom	323.93673420342	Nominal Roll [deg]
revision	2	Processing version of data
ontime	4137.5375757217	Sum of GTIs [s]
livetime	4085.1455836119	Livetime [s]
ontime4	4137.5999845862	Sum of GTIs [s]
ontime5	4137.578615725	Sum of GTIs [s]
ontime6	4137.5999845862	Sum of GTIs [s]
ontime7	4137.5375757217	Sum of GTIs [s]
ontime8	4137.5999845862	Sum of GTIs [s]
ontime9	4137.4965357184	Sum of GTIs [s]
l2events	500817	Number of level 2 events

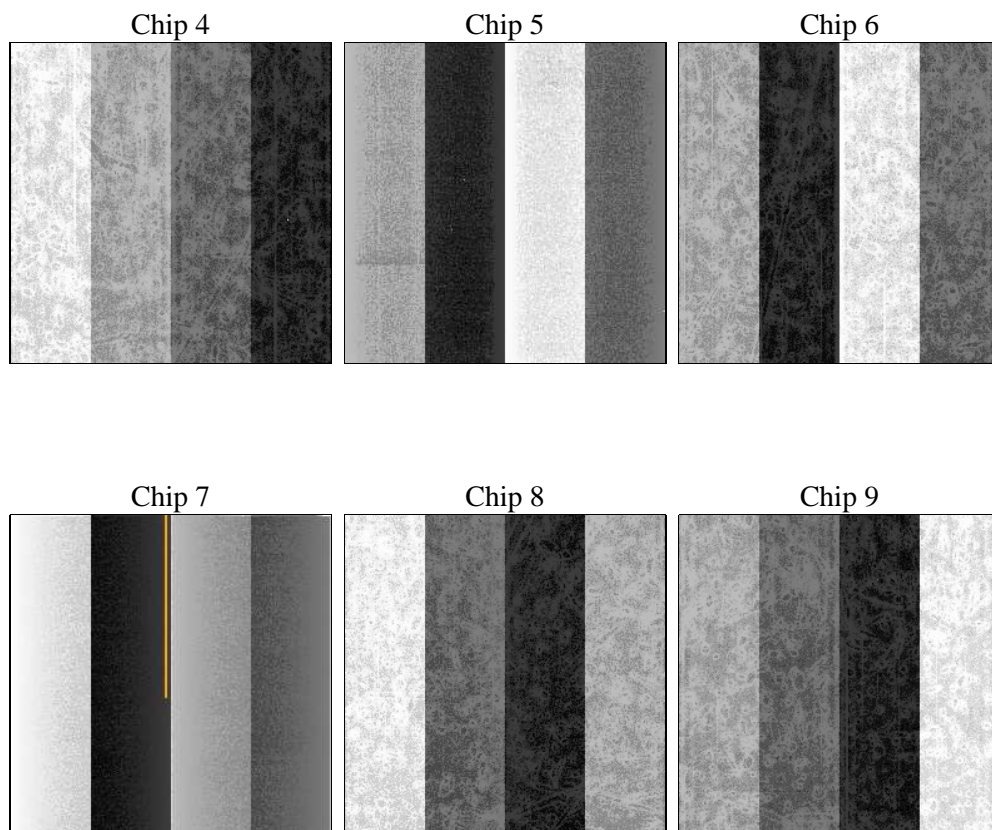
## 2 OBI

### 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	8.4.3.1	Processing system revision	ontime	4137.5375757217	Sum of GTIs [s]
caldsver	4.4.8	&#160	ontime4	4137.5999845862	Sum of GTIs [s]
date	2012-03-26T08:07:25	Date and time of file creation	ontime5	4137.578615725	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	4137.5999845862	Sum of GTIs [s]
			ontime7	4137.5375757217	Sum of GTIs [s]
			ontime8	4137.5999845862	Sum of GTIs [s]
			ontime9	4137.4965357184	Sum of GTIs [s]
			l1events	743354	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	118739	124705	121008	127078	130191	121633	grade 0 events	47374	19241	47145	22683	48853	46995
rejected events	36945	32284	33398	28336	38300	36188		39%	15%	38%	17%	37%	38%
rejected %	31%	25%	27%	22%	29%	29%	grade 1 events	398	313	252	92	291	311
								0%	0%	0%	0%	0%	0%
							grade 2 events	12915	32586	15400	21760	16594	14608
								10%	26%	12%	17%	12%	12%
							grade 3 events	5485	5319	5558	9804	6042	5431
								4%	4%	4%	7%	4%	4%
							grade 4 events	5396	5265	5369	9667	5895	5398
								4%	4%	4%	7%	4%	4%
							grade 5 events	2010	4884	2166	4892	2616	2239
								1%	3%	1%	3%	2%	1%
							grade 6 events	10624	30010	14138	34828	14507	13013
								8%	24%	11%	27%	11%	10%
							grade 7 events	34537	27087	30980	23352	35393	33638
								29%	21%	25%	18%	27%	27%

## 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	0	149.7285777684723
[deg] Pointing Dec	0	-2.501609081808605
[deg] Pointing Roll	0.0	323.9367342034211
[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)	257240684.500174	257240683.47519
Observation start date	2006-02-25T07:44:45	2006-02-25T07:44:43
[s] Observation end time (MET)	257256006.200885	257256005.1759
Observation end date	2006-02-25T12:00:06	2006-02-25T12:00:05
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
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	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.03.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.1375375757217

### A.2 Comments