

# V&V Reference Report

## L2 ASCDS Version : 8.5.1

Observation 59783 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Dec 17 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

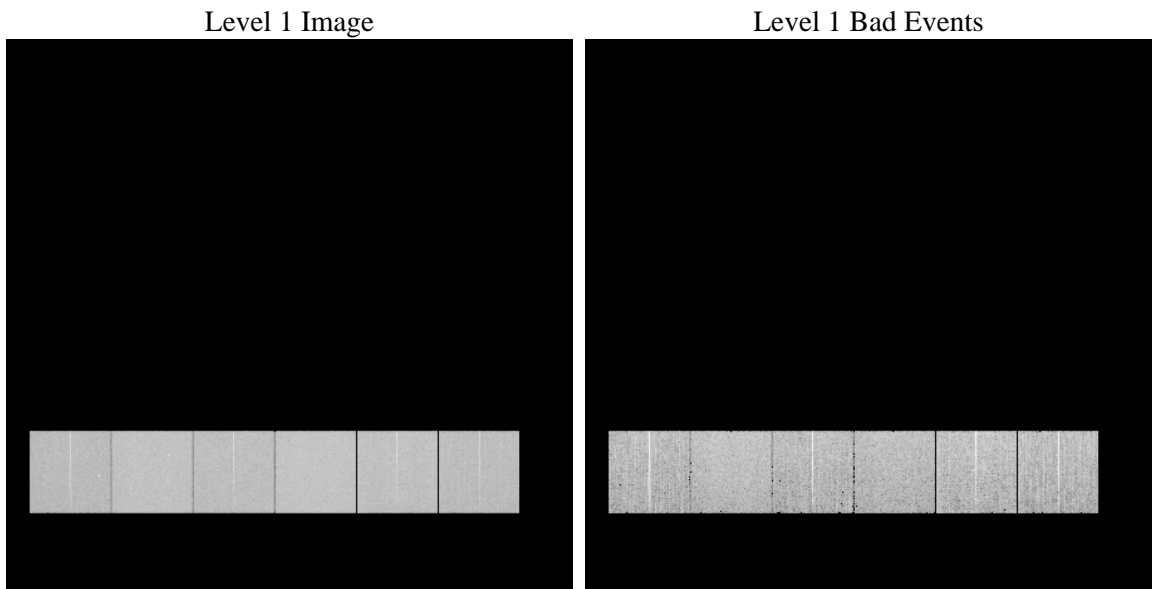
# 1 Front

seq_num	&#160	Sequence number
obs_id	59783	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	164.97054575904	Nominal RA [deg]
dec_nom	17.007694834737	Nominal Dec [deg]
roll_nom	130.06319752399	Nominal Roll [deg]
revision	3	Processing version of data
ontime	7567.0571527779	Sum of GTIs [s]
livetime	7471.2385187746	Livetime [s]
ontime4	6040.4348051846	Sum of GTIs [s]
ontime5	7567.0161127746	Sum of GTIs [s]
ontime6	6529.8628005981	Sum of GTIs [s]
ontime7	7567.0571527779	Sum of GTIs [s]
ontime8	6727.4803270996	Sum of GTIs [s]
ontime9	6257.7440353632	Sum of GTIs [s]
l2events	1008541	Number of level 2 events

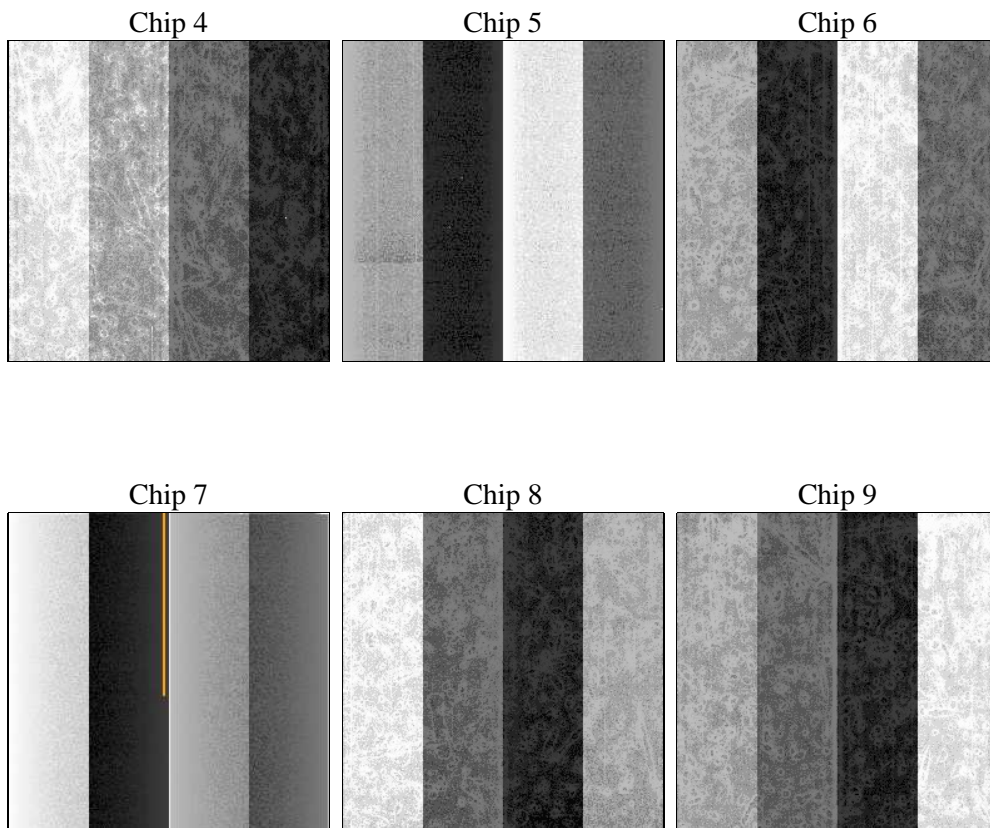
## 2 OBI

### 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	7567.0571527779	Sum of GTIs [s]
caldsver	4.5.5	&#160	ontime4	6040.4348051846	Sum of GTIs [s]
date	2012-12-17T23:02:18	Date and time of file creation	ontime5	7567.0161127746	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	6529.8628005981	Sum of GTIs [s]
			ontime7	7567.0571527779	Sum of GTIs [s]
			ontime8	6727.4803270996	Sum of GTIs [s]
			ontime9	6257.7440353632	Sum of GTIs [s]
			l1events	1384612	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	199133	247157	222611	262291	242366	211054	grade 0 events	87298	41542	95264	51750	101085	88499
rejected events	50566	55486	49718	48684	58250	51817		43%	16%	42%	19%	41%	41%
rejected %	25%	22%	22%	18%	24%	24%	grade 1 events	686	178	499	165	554	528
								0%	0%	0%	0%	0%	0%
							grade 2 events	23948	69312	30155	47367	32752	27947
								12%	28%	13%	18%	13%	13%
							grade 3 events	10064	11610	11036	21823	12267	10435
								5%	4%	4%	8%	5%	4%
							grade 4 events	10074	11440	10807	21304	12082	10360
								5%	4%	4%	8%	4%	4%
							grade 5 events	2743	8220	3156	8313	3885	3215
								1%	3%	1%	3%	1%	1%
							grade 6 events	19185	60456	28103	74334	28317	24096
								9%	24%	12%	28%	11%	11%
							grade 7 events	45135	44399	43591	37235	51424	45974
								22%	17%	19%	14%	21%	21%

## 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	164.9705457590384	Alternating exposures requested	N	N
[deg] Pointing Dec	0	17.00769483473723	[s] Primary exposure time	3.2	3.2
[deg] Pointing Roll	0.0	130.0631975239936			
[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)	225522172.844662	225522171.81966			
Observation start date	2005-02-23T05:02:53	2005-02-23T05:02:51			
[s] Observation end time (MET)	225545686.345726	225545685.32073			
Observation end date	2005-02-23T11:34:46	2005-02-23T11:34:45			
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)	2013.01.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.5670571527779

### A.2 Comments