

# V&V Reference Report

## L2 ASCDS Version : 10

Observation 53467 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Aug 19 2013

## 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

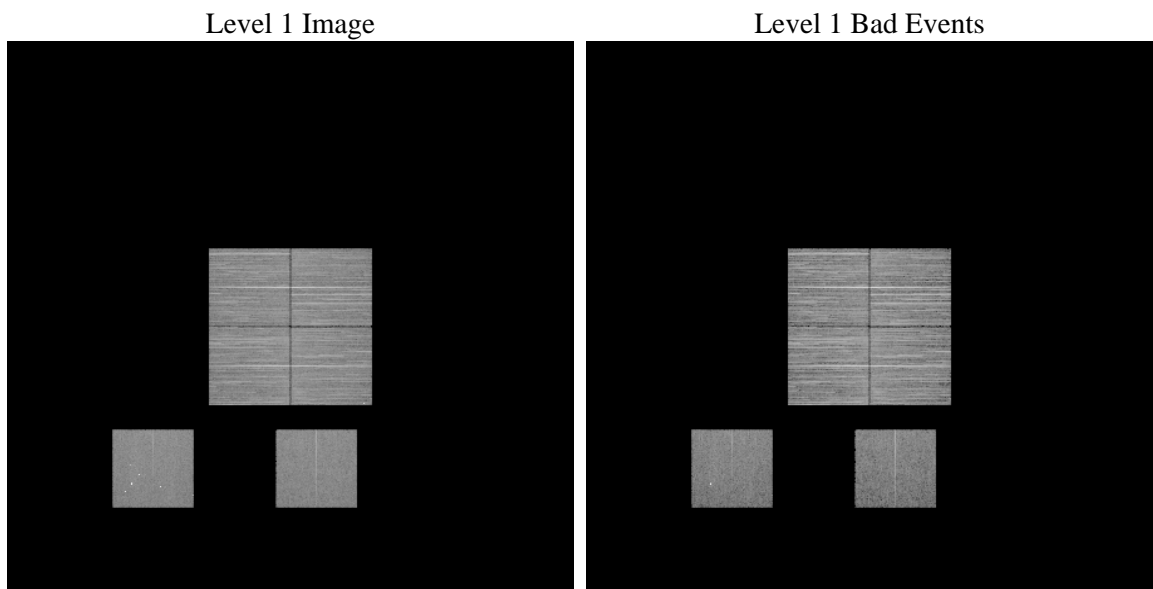
# 1 Front

seq_num	&#160	Sequence number
obs_id	53467	Observation id
title	ACIS-012357 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	354.17798641709	Nominal RA [deg]
dec_nom	-2.0560553398659	Nominal Dec [deg]
roll_nom	114.10418759049	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8260.9038496017	Sum of GTIs [s]
livetime	8156.299310939	Livetime [s]
ontime0	8260.8628095984	Sum of GTIs [s]
ontime1	8260.8217695951	Sum of GTIs [s]
ontime2	8260.7807295918	Sum of GTIs [s]
ontime3	8260.944889605	Sum of GTIs [s]
ontime5	8260.7396895885	Sum of GTIs [s]
ontime7	8260.9038496017	Sum of GTIs [s]
l2events	320626	Number of level 2 events

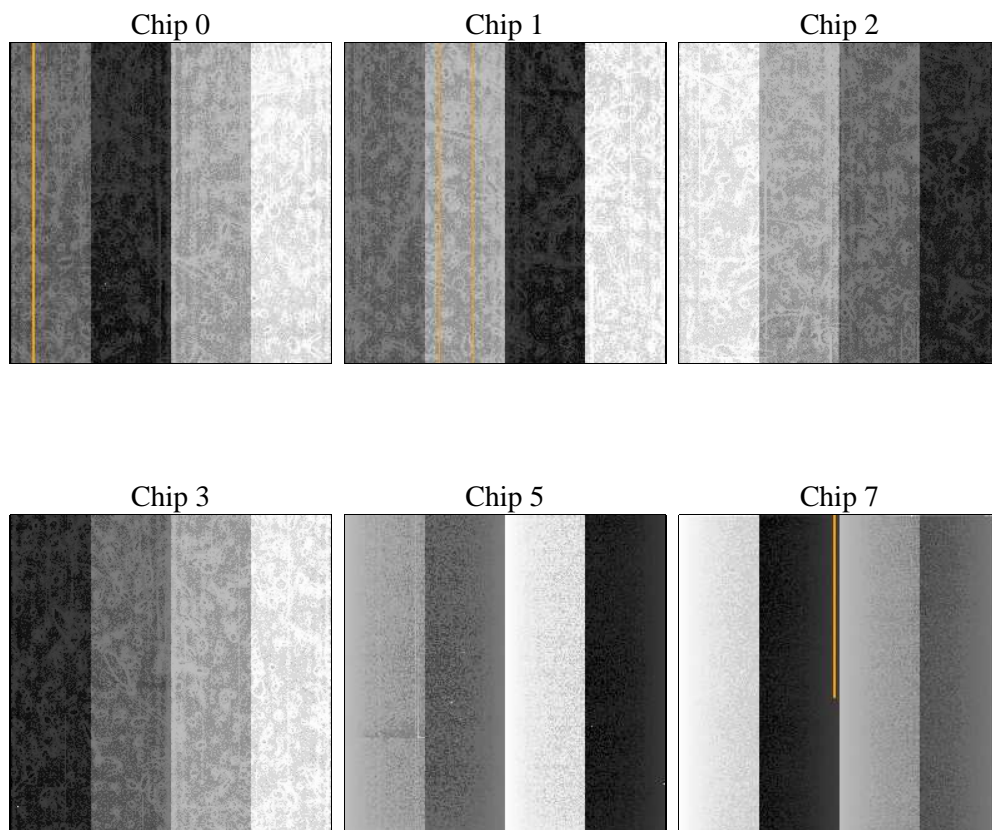
## 2 OBI

### 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	10	Processing system revision	ontime	8260.9038496017	Sum of GTIs [s]
caldsver	4.5.7	&#160	ontime0	8260.8628095984	Sum of GTIs [s]
date	2013-08-19T15:31:38	Date and time of file creation	ontime1	8260.8217695951	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	8260.7807295918	Sum of GTIs [s]
			ontime3	8260.944889605	Sum of GTIs [s]
			ontime5	8260.7396895885	Sum of GTIs [s]
			ontime7	8260.9038496017	Sum of GTIs [s]
			l1events	1008349	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 5	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 5	ccd 7
level 1 events	175783	178371	184434	177136	150717	141908	grade 0 events	23333	21336	24288	25377	10285	11242
rejected events	126727	128379	136018	126423	76800	71298		13%	11%	13%	14%	6%	7%
rejected %	72%	71%	73%	71%	50%	50%	grade 1 events	102	95	141	132	161	75
								0%	0%	0%	0%	0%	0%
							grade 2 events	11038	13583	9921	10524	28110	18509
								6%	7%	5%	5%	18%	13%
							grade 3 events	2921	2822	3036	3151	2147	4948
								1%	1%	1%	1%	1%	3%
							grade 4 events	2894	2797	2934	3084	2110	4821
								1%	1%	1%	1%	1%	3%
							grade 5 events	2796	2873	2661	3094	5878	7172
								1%	1%	1%	1%	3%	5%
							grade 6 events	9178	9790	8514	8888	31571	31423
								5%	5%	4%	5%	20%	22%
							grade 7 events	123521	125075	132939	122886	70455	63718
								70%	70%	72%	69%	46%	44%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012357	ACIS-012357	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	SECONDARY	SECONDARY	On-chip summing requested	N	N
[deg] Pointing RA	0	354.1779864170945	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	-2.056055339865872	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	114.1041875904875	[s] Primary exposure time	3.2	3.2
[mm] SIM focus pos	-1.429586	-1.428180813131781			
[mm] SIM defocus	0.1037507710433287	0.1051558262725154			
[mm] SIM translation stage pos	250.455976	250.466033080201			
[mm] SIM translation stage offset	0	-0.01005468664627074			
[s] Observation start time (MET)	493267985.256187	493267984.23119			
Observation start date	2013-08-19T02:53:05	2013-08-19T02:53:04			
[s] Observation end time (MET)	493277880.606726	493277879.58173			
Observation end date	2013-08-19T05:38:01	2013-08-19T05:37:59			
Read mode	TIMED	TIMED			

## **2.3 Star Slots**

## **2.4 FID Slots**

## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2013.08.19
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.2609038496017

### A.2 Comments