

# V&V Reference Report

## L2 ASCDS Version : 10.3.3

Observation 52117 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Jan 30 2015

## 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

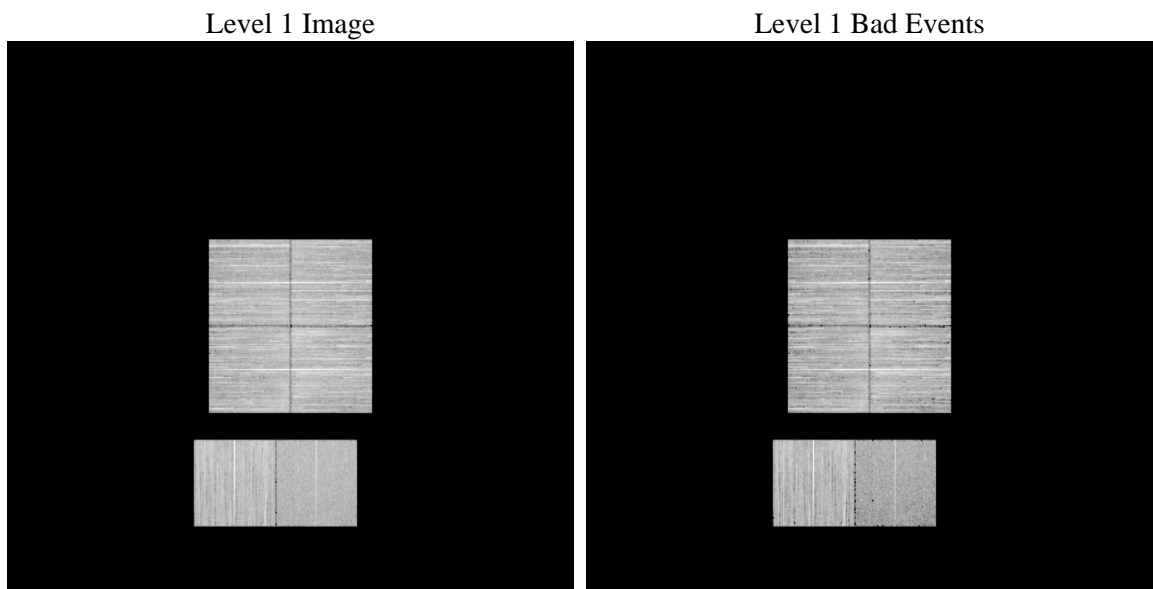
# 1 Front

seq_num	&#160	Sequence number
obs_id	52117	Observation id
title	ACIS-012367 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	347.98880457116	Nominal RA [deg]
dec_nom	-61.028333593653	Nominal Dec [deg]
roll_nom	226.24010547068	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8179.2001218796	Sum of GTIs [s]
livetime	8075.6301650133	Livetime [s]
ontime0	8075.4869215488	Sum of GTIs [s]
ontime1	8085.210041523	Sum of GTIs [s]
ontime2	8081.972206831	Sum of GTIs [s]
ontime3	8078.7279615402	Sum of GTIs [s]
ontime6	8085.2132866383	Sum of GTIs [s]
ontime7	8179.2001218796	Sum of GTIs [s]
l2events	162365	Number of level 2 events

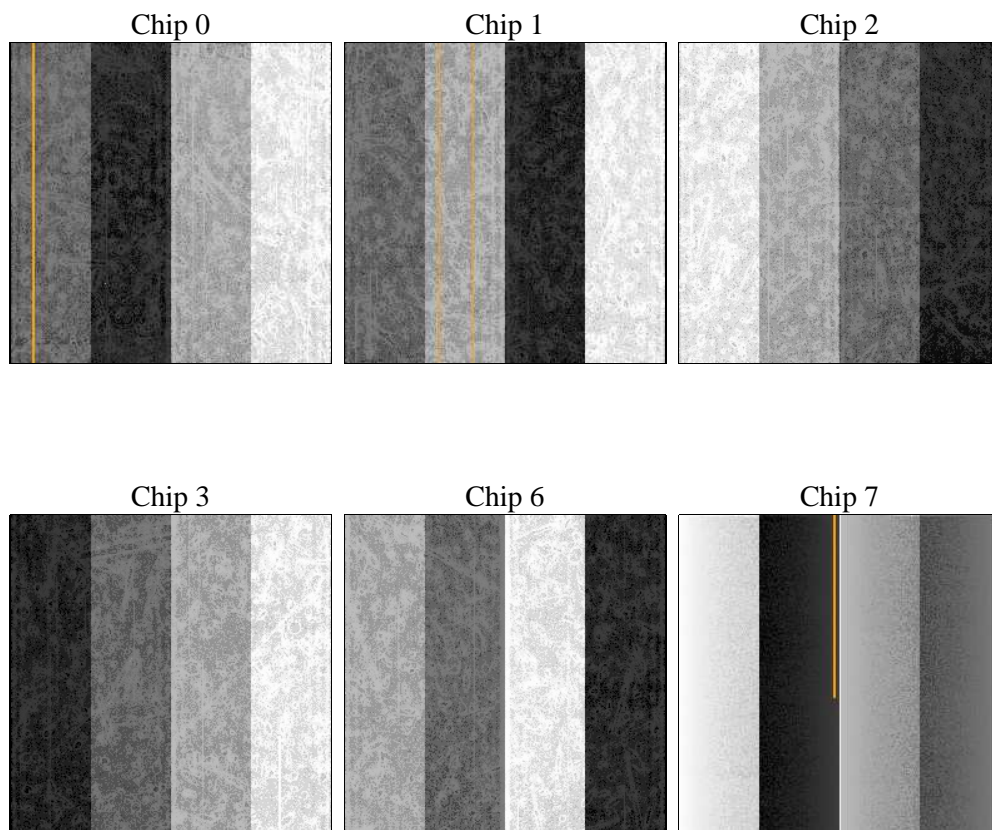
## 2 OBI

### 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	10.3.3	Processing system revision	ontime	8179.2001218796	Sum of GTIs [s]
caldsver	4.6.6	&#160	ontime0	8075.4869215488	Sum of GTIs [s]
date	2015-01-31T01:28:56	Date and time of file creation	ontime1	8085.210041523	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	8081.972206831	Sum of GTIs [s]
			ontime3	8078.7279615402	Sum of GTIs [s]
			ontime6	8085.2132866383	Sum of GTIs [s]
			ontime7	8179.2001218796	Sum of GTIs [s]
			l1events	809036	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	133988	137715	132568	146934	144859	112972	grade 0 events	12174	11202	12406	12444	11778	6132
rejected events	109394	112861	108101	122294	119056	65231		9%	8%	9%	8%	8%	5%
rejected %	81%	81%	81%	83%	82%	57%	grade 1 events	69	66	74	66	50	70
								0%	0%	0%	0%	0%	0%
							grade 2 events	5274	6050	5073	4833	6133	12015
								3%	4%	3%	3%	4%	10%
							grade 3 events	1671	1638	1657	1785	1562	3631
								1%	1%	1%	1%	1%	3%
							grade 4 events	1601	1696	1681	1809	1628	3531
								1%	1%	1%	1%	1%	3%
							grade 5 events	2618	2608	2586	2831	2689	6803
								1%	1%	1%	1%	1%	6%
							grade 6 events	4148	4562	3955	4085	4975	23078
								3%	3%	2%	2%	3%	20%
							grade 7 events	106433	109893	105136	119081	116044	57712
								79%	79%	79%	81%	80%	51%

## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-012367	ACIS-012367
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	SECONDARY	SECONDARY
[deg] Pointing RA	0	347.9888045711573
[deg] Pointing Dec	0	-61.02833359365317
[deg] Pointing Roll	0.0	226.2401054706771
[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)	539004168.3816431	539004167.35664
Observation start date	2015-01-30T11:22:48	2015-01-30T11:22:47
[s] Observation end time (MET)	539017189.982353	539017188.95735
Observation end date	2015-01-30T14:59:50	2015-01-30T14:59:48
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
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)	2015.01.31
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.1792001218796

### A.2 Comments