

# V&V Reference Report

## L2 ASCDS Version : 10.4.3

Observation 51369 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Dec 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

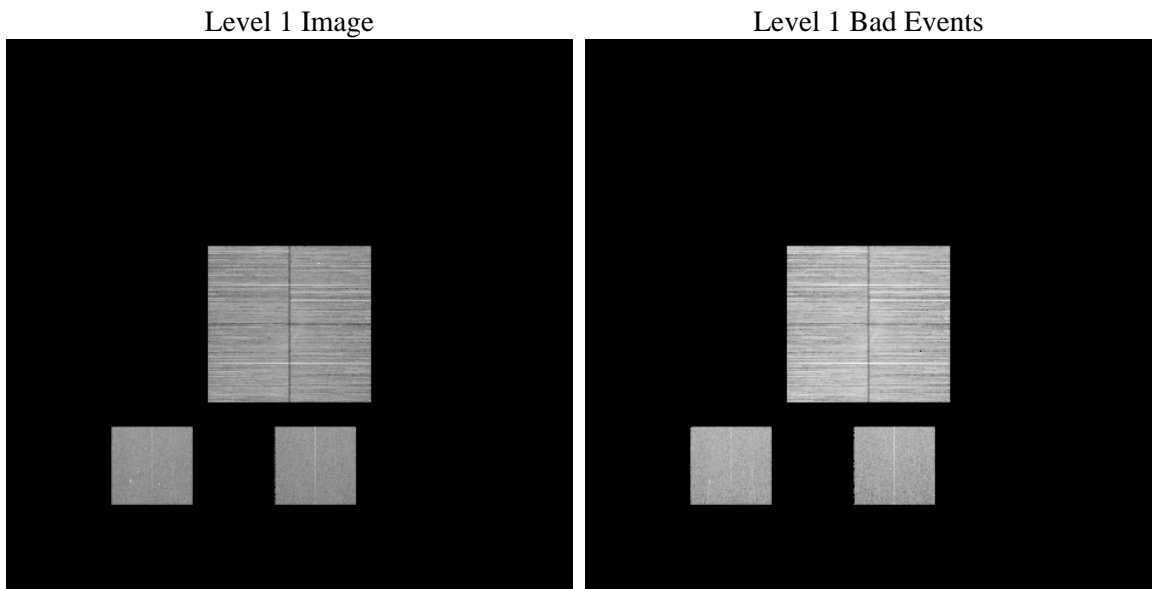
# 1 Front

seq_num	&#160	Sequence number
obs_id	51369	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	75.524681533693	Nominal RA [deg]
dec_nom	11.98352221239	Nominal Dec [deg]
roll_nom	292.06185577277	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8427.8349355459	Sum of GTIs [s]
livetime	8321.1166149591	Livetime [s]
ontime0	8427.793895483	Sum of GTIs [s]
ontime1	8427.7528555393	Sum of GTIs [s]
ontime2	8427.7118154764	Sum of GTIs [s]
ontime3	8427.8759754896	Sum of GTIs [s]
ontime5	8427.6707755327	Sum of GTIs [s]
ontime7	8427.8349355459	Sum of GTIs [s]
l2events	189681	Number of level 2 events

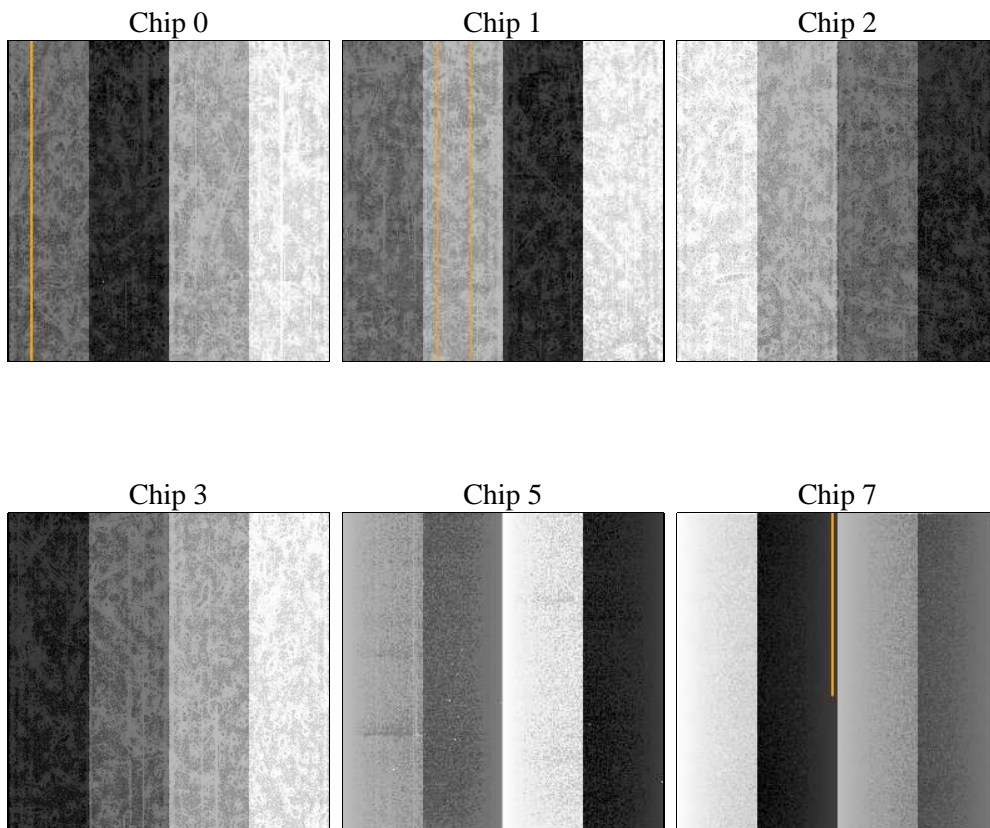
## 2 OBI

### 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	10.4.3	Processing system revision	ontime	8427.8349355459	Sum of GTIs [s]
caldsver	4.7.0	&#160	ontime0	8427.793895483	Sum of GTIs [s]
date	2015-12-30T13:26:06	Date and time of file creation	ontime1	8427.7528555393	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	8427.7118154764	Sum of GTIs [s]
			ontime3	8427.8759754896	Sum of GTIs [s]
			ontime5	8427.6707755327	Sum of GTIs [s]
			ontime7	8427.8349355459	Sum of GTIs [s]
			l1events	1031400	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	180250	191338	200968	182112	142372	134360	grade 0 events	9964	10312	10494	10633	3745	5338
rejected events	157595	166709	178635	159213	84726	82688		5%	5%	5%	5%	2%	3%
rejected %	87%	87%	88%	87%	59%	61%	grade 1 events	67	61	77	84	231	100
								0%	0%	0%	0%	0%	0%
							grade 2 events	5724	6922	4999	5280	20346	12952
								3%	3%	2%	2%	14%	9%
							grade 3 events	1495	1373	1501	1602	1679	3384
								0%	0%	0%	0%	1%	2%
							grade 4 events	1454	1381	1502	1631	1552	3434
								0%	0%	0%	0%	1%	2%
							grade 5 events	3054	2914	2939	3368	6083	7805
								1%	1%	1%	1%	4%	5%
							grade 6 events	4043	4670	3870	3775	30423	26636
								2%	2%	1%	2%	21%	19%
							grade 7 events	154449	163705	175586	155739	78313	74711
								85%	85%	87%	85%	55%	55%

## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-012357	ACIS-012357
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	SECONDARY	SECONDARY
[deg] Pointing RA	0	75.52468153369342
[deg] Pointing Dec	0	11.98352221238992
[deg] Pointing Roll	0.0	292.0618557727699
[mm] SIM focus pos	-1.429586	-0.6828225247311905
[mm] SIM defocus	0.1037507710433287	0.8505141146731063
[mm] SIM translation stage pos	250.455976	250.466033080201
[mm] SIM translation stage offset	0	-0.01005468664627074
[s] Observation start time (MET)	567796908.691205	567796907.6662101
Observation start date	2015-12-29T17:21:49	2015-12-29T17:21:47
[s] Observation end time (MET)	567808999.591892	567808998.56689
Observation end date	2015-12-29T20:43:20	2015-12-29T20:43:18
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	Jen Lauer
V&V Date (YYYY-MM-DD)	2015.12.30
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.4278349355459

### A.2 Comments