

# V&V Reference Report

## L2 ASCDS Version : 10.4.3

Observation 51314 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Jan 22 2016

## 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

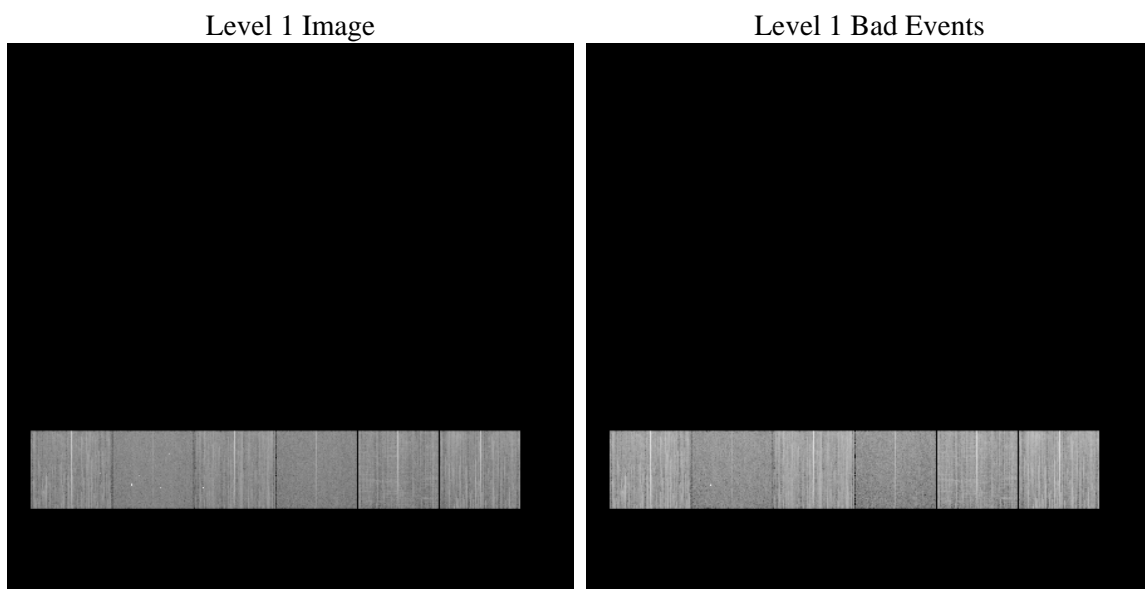
# 1 Front

seq_num	&#160	Sequence number
obs_id	51314	Observation id
title	ACIS-456789 diagnostics	Proposal title
observer	CHANDRA engineering request/realtime commanding	Principal investig
object	&#160	Source name
dtycle	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	108.0295356686	Nominal RA [deg]
dec_nom	-14.995881459978	Nominal Dec [deg]
roll_nom	335.29777384455	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8432.0001256466	Sum of GTIs [s]
livetime	8325.2290629147	Livetime [s]
ontime4	8432.0001256466	Sum of GTIs [s]
ontime5	8432.0001256466	Sum of GTIs [s]
ontime6	8432.0001256466	Sum of GTIs [s]
ontime7	8432.0001256466	Sum of GTIs [s]
ontime8	8432.0001256466	Sum of GTIs [s]
ontime9	8432.0001256466	Sum of GTIs [s]
l2events	217454	Number of level 2 events

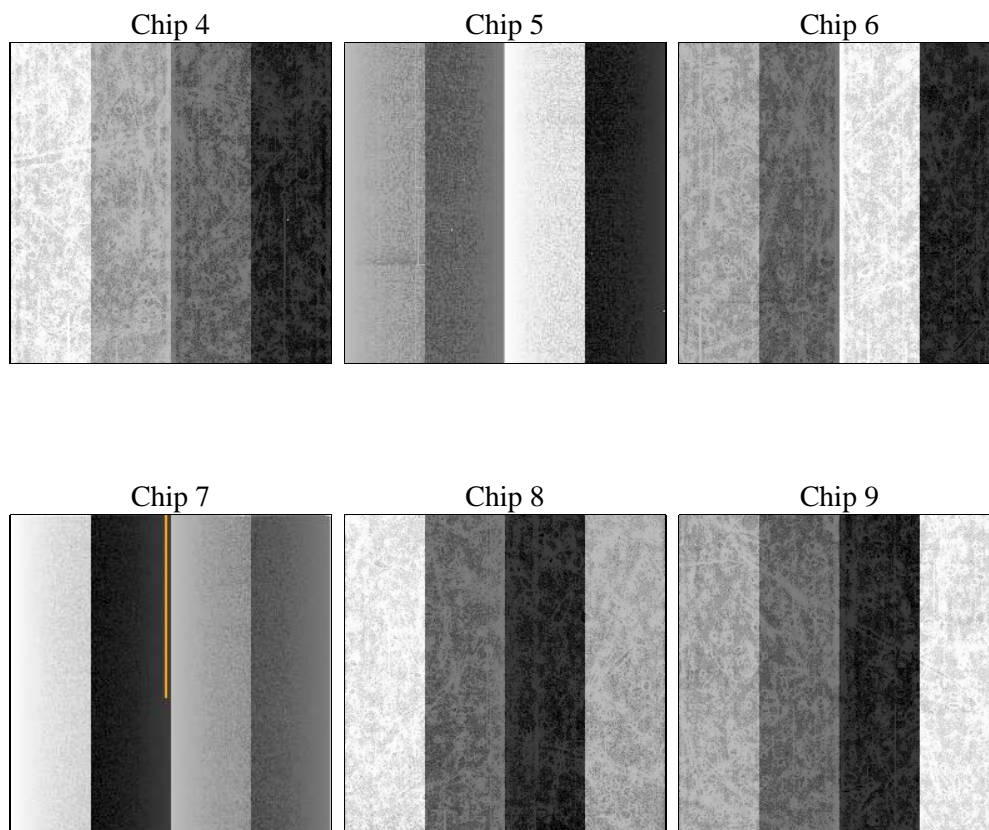
## 2 OBI

### 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	8432.0001256466	Sum of GTIs [s]
caldbver	4.7.0	&#160	ontime4	8432.0001256466	Sum of GTIs [s]
date	2016-01-22T21:52:46	Date and time of file creation	ontime5	8432.0001256466	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	8432.0001256466	Sum of GTIs [s]
			ontime7	8432.0001256466	Sum of GTIs [s]
			ontime8	8432.0001256466	Sum of GTIs [s]
			ontime9	8432.0001256466	Sum of GTIs [s]
			l1events	1045047	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	189410	148403	194736	136135	178649	197714	grade 0 events	14358	5211	14388	6593	15849	12788
rejected events	160575	86498	163654	80721	139509	169560		7%	3%	7%	4%	8%	6%
rejected %	84%	58%	84%	59%	78%	85%	grade 1 events	137	198	93	88	97	80
								0%	0%	0%	0%	0%	0%
							grade 2 events	5750	22700	7238	14283	8812	6247
								3%	15%	3%	10%	4%	3%
							grade 3 events	2111	1741	1711	3691	2898	1808
								1%	1%	0%	2%	1%	0%
							grade 4 events	2039	1589	1777	3812	2803	1771
								1%	1%	0%	2%	1%	0%
							grade 5 events	3648	6586	3359	8066	4645	3849
								1%	4%	1%	5%	2%	1%
							grade 6 events	4583	30689	5974	27086	8786	5570
								2%	20%	3%	19%	4%	2%
							grade 7 events	156784	79689	160196	72516	134759	165601
								82%	53%	82%	53%	75%	83%

## 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	Number of optional ACIS chips dropped	0	0
Observation mode	SECONDARY	SECONDARY	On-chip summing requested	N	N
[deg] Pointing RA	0	108.029535668603	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	-14.99588145997765	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	335.2977738445501	[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)	569854297.007998	569854295.983			
Observation start date	2016-01-22T12:51:37	2016-01-22T12:51:35			
[s] Observation end time (MET)	569866808.158708	569866807.13371			
Observation end date	2016-01-22T16:20:08	2016-01-22T16:20:07			
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)	2016.01.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.4320001256466

## A.2 Comments