

# V&V Reference Report

## L2 ASCDS Version : 10.3

Observation 52344 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Nov 2 2014

## 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

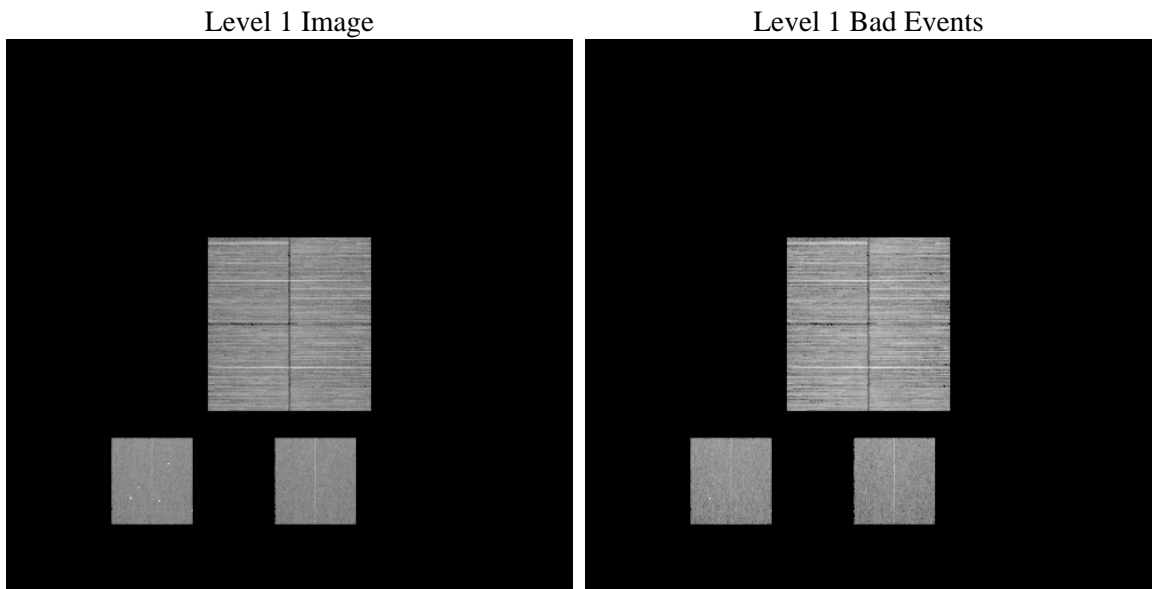
# 1 Front

seq_num	&#160	Sequence number
obs_id	52344	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	152.01170159116	Nominal RA [deg]
dec_nom	19.825960444536	Nominal Dec [deg]
roll_nom	66.767142053418	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8463.9999685287	Sum of GTIs [s]
livetime	8356.8237045183	Livetime [s]
ontime0	8463.9999685287	Sum of GTIs [s]
ontime1	8463.9999685287	Sum of GTIs [s]
ontime2	8463.9999685287	Sum of GTIs [s]
ontime3	8463.9999685287	Sum of GTIs [s]
ontime5	8463.9999685287	Sum of GTIs [s]
ontime7	8463.9999685287	Sum of GTIs [s]
l2events	194541	Number of level 2 events

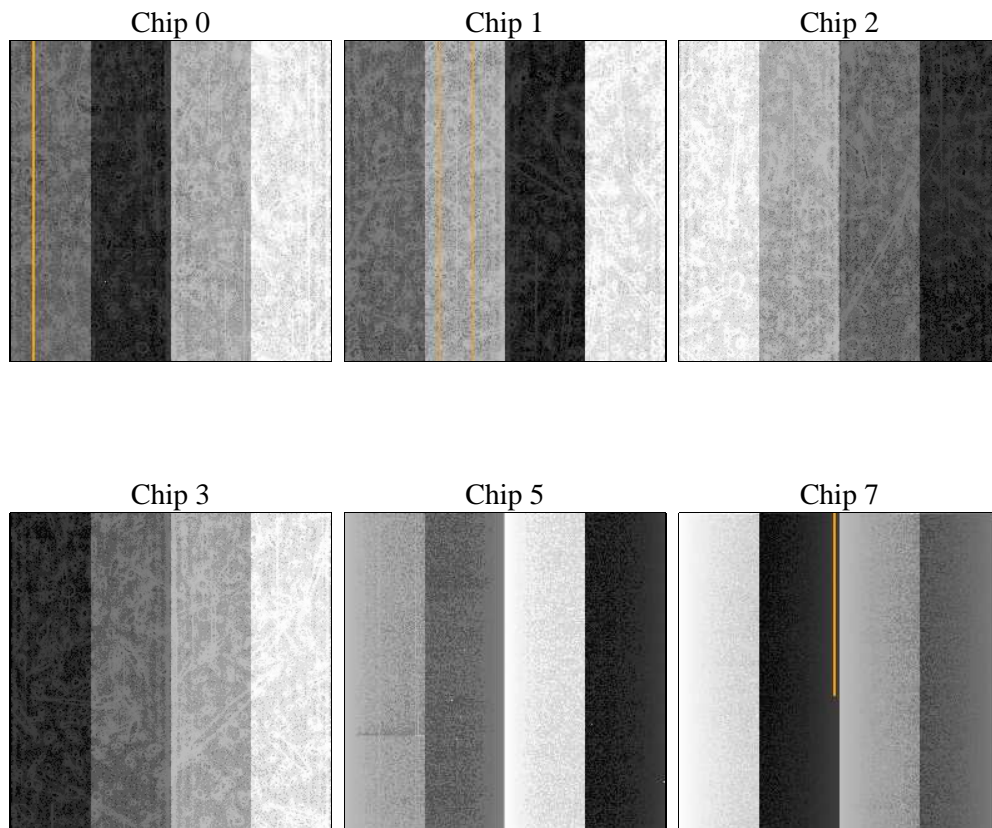
## 2 OBI

### 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	Processing system revision	ontime	8463.9999685287	Sum of GTIs [s]
caldsver	4.6.4	&#160	ontime0	8463.9999685287	Sum of GTIs [s]
date	2014-11-02T05:59:10	Date and time of file creation	ontime1	8463.9999685287	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	8463.9999685287	Sum of GTIs [s]
			ontime3	8463.9999685287	Sum of GTIs [s]
			ontime5	8463.9999685287	Sum of GTIs [s]
			ontime7	8463.9999685287	Sum of GTIs [s]
			l1events	864569	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	145299	154533	156764	157502	131428	119043	grade 0 events	12153	11866	12555	12664	9127	6504
rejected events	120479	129190	132059	132658	72360	68171		8%	7%	8%	8%	6%	5%
rejected %	82%	83%	84%	84%	55%	57%	grade 1 events	61	48	82	73	816	92
								0%	0%	0%	0%	0%	0%
							grade 2 events	5236	5684	4861	4791	20226	12529
								3%	3%	3%	3%	15%	10%
							grade 3 events	1810	1721	1819	1730	1823	3933
								1%	1%	1%	1%	1%	3%
							grade 4 events	1680	1771	1695	1776	1729	3962
								1%	1%	1%	1%	1%	3%
							grade 5 events	2915	2847	2804	3154	5998	7413
								2%	1%	1%	2%	4%	6%
							grade 6 events	3944	4308	3778	3887	26175	23961
								2%	2%	2%	2%	19%	20%
							grade 7 events	117500	126288	129170	129427	65534	60649
								80%	81%	82%	82%	49%	50%

## 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	152.0117015911577	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	19.82596044453618	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	66.7671420534181	[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)	531237123.848705	531237122.82371			
Observation start date	2014-11-01T13:52:04	2014-11-01T13:52:02			
[s] Observation end time (MET)	531248589.499343	531248588.47434			
Observation end date	2014-11-01T17:03:09	2014-11-01T17:03:08			
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)	2014.11.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.4639999685287

### A.2 Comments