

# V&V Reference Report

## L2 ASCDS Version : 10.2.4

Observation 52358 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Oct 27 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

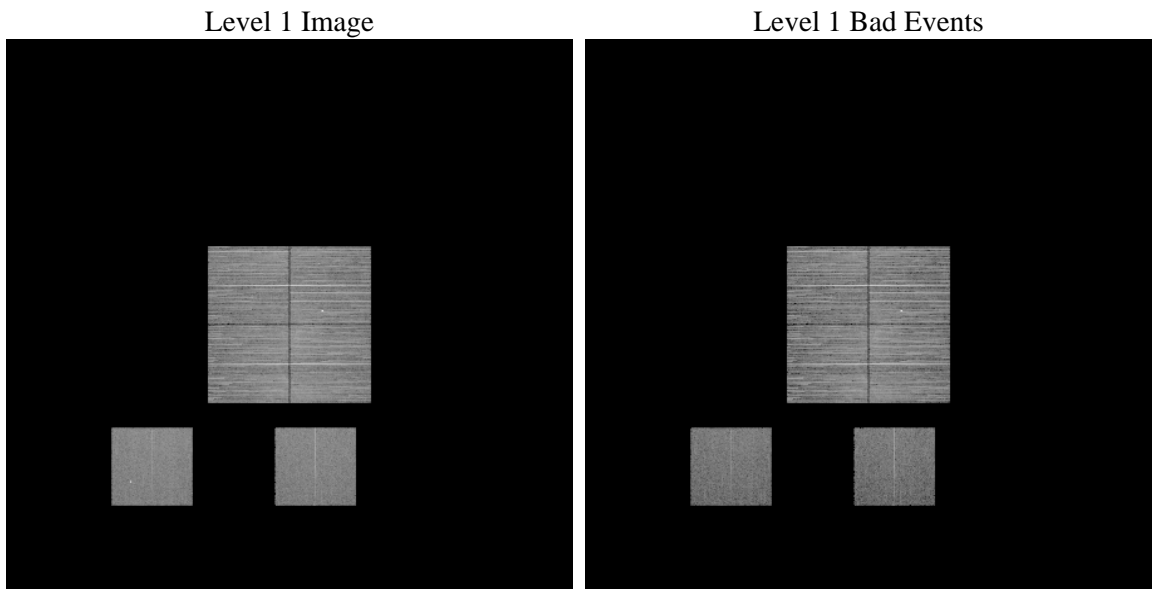
# 1 Front

seq_num	&#160	Sequence number
obs_id	52358	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	44.988580217801	Nominal RA [deg]
dec_nom	-12.577876413097	Nominal Dec [deg]
roll_nom	34.03312570313	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8377.3762558103	Sum of GTIs [s]
livetime	8271.2968734088	Livetime [s]
ontime0	8306.8262642026	Sum of GTIs [s]
ontime1	8297.1031441689	Sum of GTIs [s]
ontime2	8297.1031441689	Sum of GTIs [s]
ontime3	8300.3441841602	Sum of GTIs [s]
ontime5	8377.2120957971	Sum of GTIs [s]
ontime7	8377.3762558103	Sum of GTIs [s]
l2events	189553	Number of level 2 events

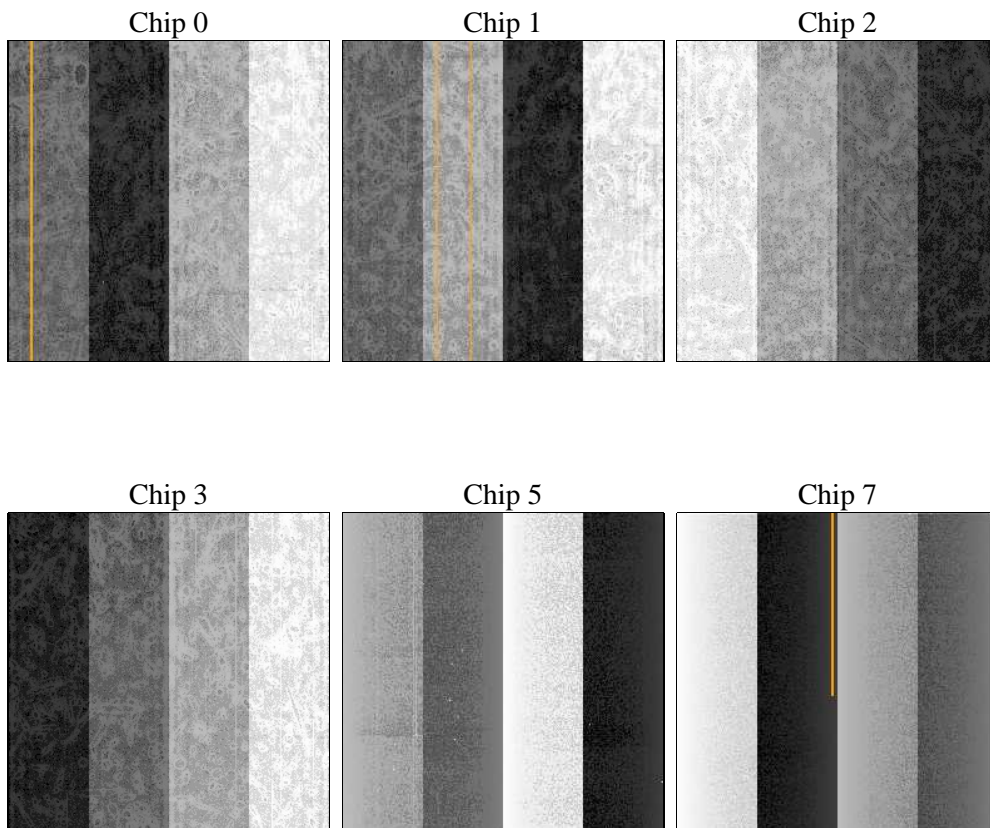
## 2 OBI

### 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	10.2.4	Processing system revision	ontime	8377.3762558103	Sum of GTIs [s]
caldsver	4.6.3	&#160	ontime0	8306.8262642026	Sum of GTIs [s]
date	2014-10-27T15:15:11	Date and time of file creation	ontime1	8297.1031441689	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	8297.1031441689	Sum of GTIs [s]
			ontime3	8300.3441841602	Sum of GTIs [s]
			ontime5	8377.2120957971	Sum of GTIs [s]
			ontime7	8377.3762558103	Sum of GTIs [s]
			l1events	857830	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	146571	153447	151109	161450	125928	119325	grade 0 events	11390	10412	11876	12302	3738	5725
rejected events	122241	128925	127219	136881	72886	70082		7%	6%	7%	7%	2%	4%
rejected %	83%	84%	84%	84%	57%	58%	grade 1 events	47	2595	80	70	156	91
								0%	1%	0%	0%	0%	0%
							grade 2 events	5679	6689	5020	5147	19030	12479
								3%	4%	3%	3%	15%	10%
							grade 3 events	1554	1469	1585	1619	1742	3516
								1%	0%	1%	1%	1%	2%
							grade 4 events	1497	1522	1639	1624	1516	3324
								1%	0%	1%	1%	1%	2%
							grade 5 events	2703	2542	2556	3014	5337	6913
								1%	1%	1%	1%	4%	5%
							grade 6 events	4210	4430	3770	3877	27043	24250
								2%	2%	2%	2%	21%	20%
							grade 7 events	119491	123788	124583	133797	67366	63027
								81%	80%	82%	82%	53%	52%

## 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	44.98858021780057	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	-12.57787641309677	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	34.03312570312963	[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)	530550115.510477	530550114.48548			
Observation start date	2014-10-24T15:01:56	2014-10-24T15:01:54			
[s] Observation end time (MET)	530562392.961159	530562391.93616			
Observation end date	2014-10-24T18:26:33	2014-10-24T18:26:31			
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)	2014.10.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.3773762558103

### A.2 Comments