

# V&V Reference Report

## L2 ASCDS Version : 10.4.3.1

Observation 51232 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Feb 21 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

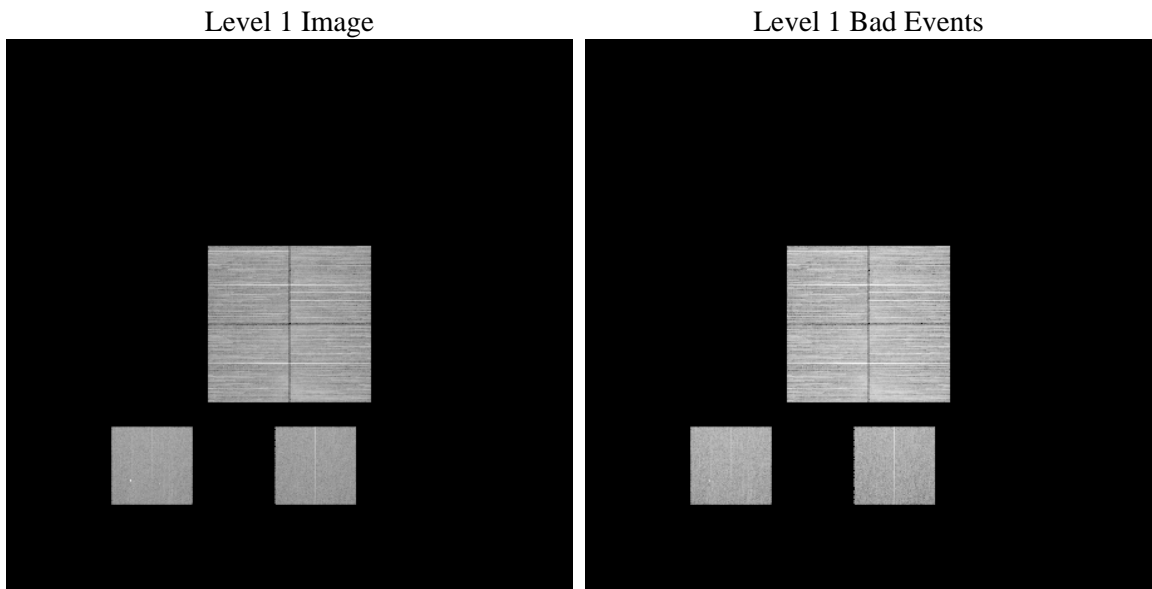
# 1 Front

seq_num	&#160	Sequence number
obs_id	51232	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	142.06129936598	Nominal RA [deg]
dec_nom	-9.4742840230761	Nominal Dec [deg]
roll_nom	331.57804496204	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8252.7296682596	Sum of GTIs [s]
livetime	8148.2286360029	Livetime [s]
ontime0	8252.6886281967	Sum of GTIs [s]
ontime1	8252.647588253	Sum of GTIs [s]
ontime2	8252.6065481901	Sum of GTIs [s]
ontime3	8246.2885271311	Sum of GTIs [s]
ontime5	8252.5655082464	Sum of GTIs [s]
ontime7	8252.7296682596	Sum of GTIs [s]
l2events	212229	Number of level 2 events

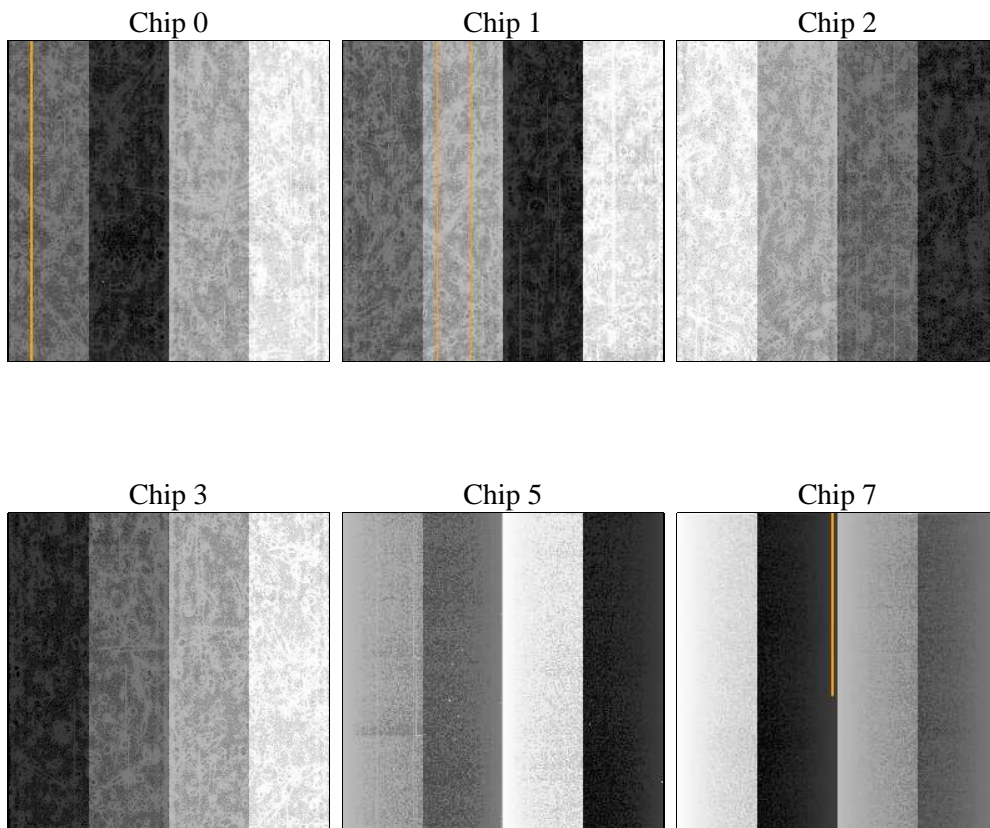
## 2 OBI

### 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	10.4.3.1	Processing system revision	ontime	8252.7296682596	Sum of GTIs [s]
caldbver	4.7.0	&#160	ontime0	8252.6886281967	Sum of GTIs [s]
date	2016-02-21T20:50:05	Date and time of file creation	ontime1	8252.647588253	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	8252.6065481901	Sum of GTIs [s]
			ontime3	8246.2885271311	Sum of GTIs [s]
			ontime5	8252.5655082464	Sum of GTIs [s]
			ontime7	8252.7296682596	Sum of GTIs [s]
			l1events	1040738	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	172043	190109	183408	203894	149715	141569	grade 0 events	12102	10851	12617	12728	4381	6478
rejected events	145594	163143	157322	176929	88345	85322		7%	5%	6%	6%	2%	4%
rejected %	84%	85%	85%	86%	59%	60%	grade 1 events	76	58	75	79	178	110
								0%	0%	0%	0%	0%	0%
							grade 2 events	6223	7697	5551	5826	23240	14975
								3%	4%	3%	2%	15%	10%
							grade 3 events	1774	1675	1896	1902	1773	3925
								1%	0%	1%	0%	1%	2%
							grade 4 events	1794	1603	1830	1862	1647	3836
								1%	0%	0%	0%	1%	2%
							grade 5 events	3322	3135	3099	3649	6433	8012
								1%	1%	1%	1%	4%	5%
							grade 6 events	5070	5704	4691	5172	31737	28259
								2%	3%	2%	2%	21%	19%
							grade 7 events	141682	159386	153649	172676	80326	75974
								82%	83%	83%	84%	53%	53%

## 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	OVERRIDE	OVERRIDE
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	142.061299365982	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	-9.474284023076114	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	331.5780449620411	[s] Primary exposure time	3.2	3.2
SIM focus pos (mm)	-1.4281808131	-1.4281808131			
[mm] SIM defocus	0.1051557500557434	0.1051557500557434			
SIM translation stage pos (mm)	250.4635187649	250.4635187649			
[mm] SIM translation stage offset	-0.007542945905271381	-0.007542945905271381			
[s] Observation start time (MET)	572368911.200871	572368911.200871			
Observation start date	2016-02-20T15:21:51	2016-02-20T15:21:51			
[s] Observation end time (MET)	572378907.9628299	572378907.9628299			
Observation end date	2016-02-20T18:08:28	2016-02-20T18:08:27			
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)	2016.02.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.2527296682596

### A.2 Comments