

# V&V Reference Report

## L2 ASCDS Version : 10.4.2.1

Observation 51483 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Nov 23 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

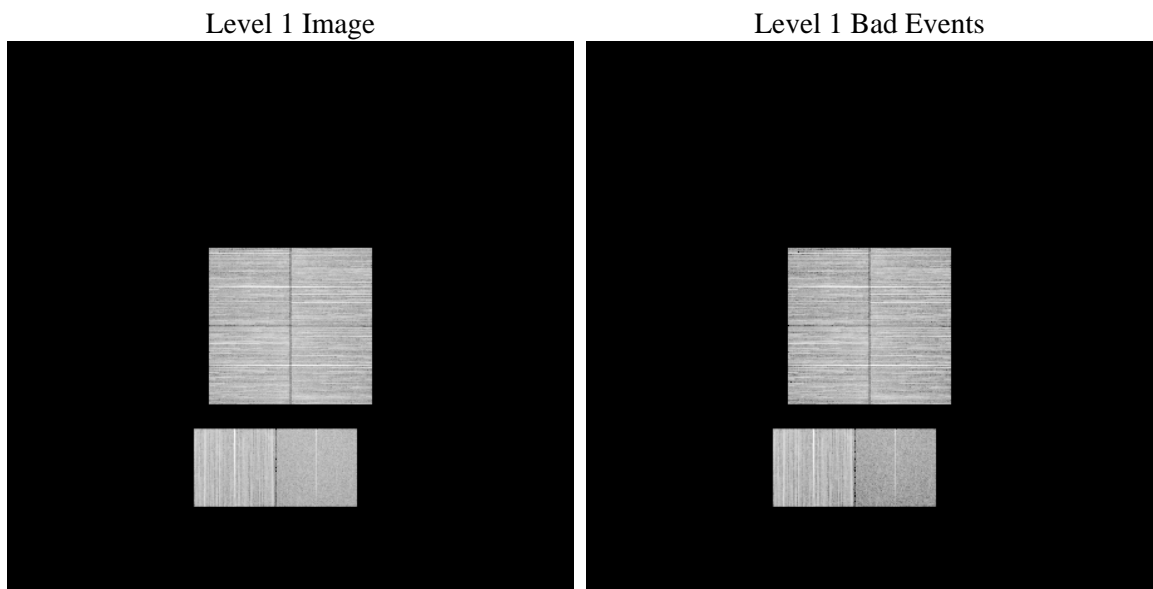
# 1 Front

seq_num	&#160	Sequence number
obs_id	51483	Observation id
title	ACIS-012367 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	54.937988755421	Nominal RA [deg]
dec_nom	-8.074448792861	Nominal Dec [deg]
roll_nom	354.64161327572	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8453.0406039953	Sum of GTIs [s]
livetime	8346.0031140576	Livetime [s]
ontime0	8449.7585436106	Sum of GTIs [s]
ontime1	8452.9585239887	Sum of GTIs [s]
ontime2	8452.9174839258	Sum of GTIs [s]
ontime3	8453.081643939	Sum of GTIs [s]
ontime6	8452.8764439821	Sum of GTIs [s]
ontime7	8453.0406039953	Sum of GTIs [s]
l2events	147574	Number of level 2 events

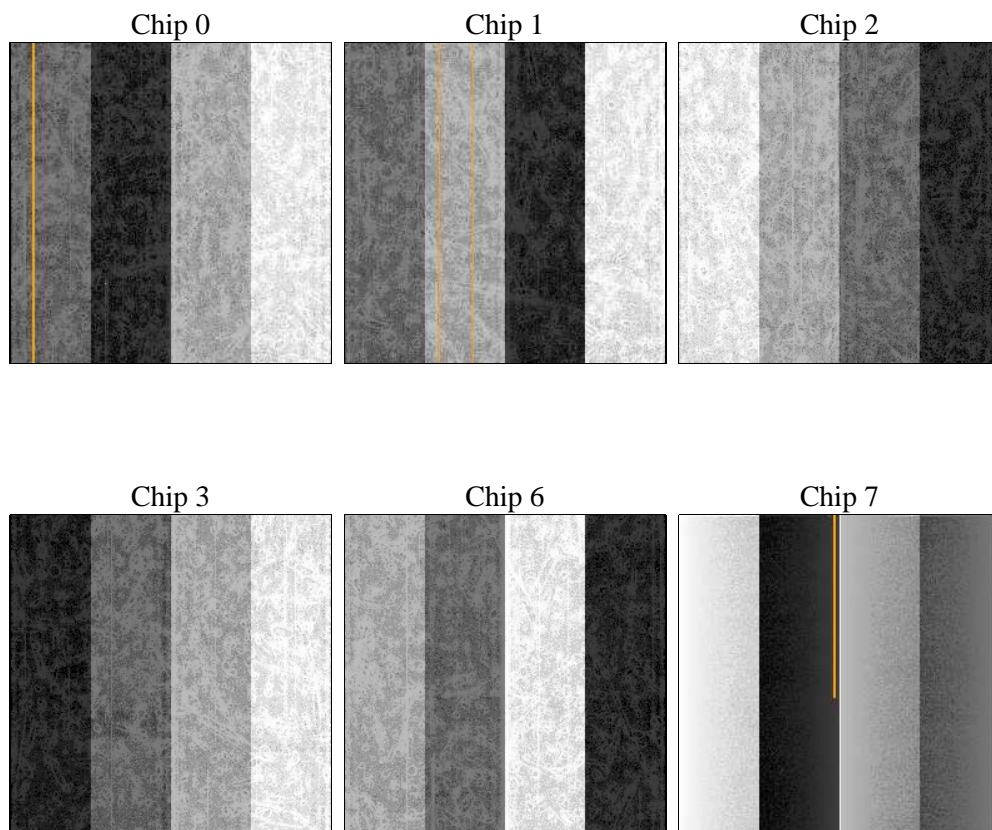
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	0.0	[s] Scheduled observation exposure time
ascdsver	10.4.2.1	Processing system revision	ontime	8453.0406039953	Sum of GTIs [s]
caldsver	4.6.10a	&#160	ontime0	8449.7585436106	Sum of GTIs [s]
date	2015-11-23T17:21:08	Date and time of file creation	ontime1	8452.9585239887	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	8452.9174839258	Sum of GTIs [s]
			ontime3	8453.081643939	Sum of GTIs [s]
			ontime6	8452.8764439821	Sum of GTIs [s]
			ontime7	8453.0406039953	Sum of GTIs [s]
			l1events	963950	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	153140	166060	172826	164997	181195	125732	grade 0 events	10034	9133	10266	10287	9512	5362
rejected events	131426	144732	151532	143644	159169	76213		6%	5%	5%	6%	5%	4%
rejected %	85%	87%	87%	87%	87%	60%	grade 1 events	56	44	67	86	53	90
								0%	0%	0%	0%	0%	0%
							grade 2 events	4992	5463	4600	4512	5495	12313
								3%	3%	2%	2%	3%	9%
							grade 3 events	1572	1362	1557	1560	1400	3634
								1%	0%	0%	0%	0%	2%
							grade 4 events	1461	1429	1479	1493	1408	3460
								0%	0%	0%	0%	0%	2%
							grade 5 events	2981	2897	2915	3256	3100	7781
								1%	1%	1%	1%	1%	6%
							grade 6 events	3670	3956	3404	3513	4220	24782
								2%	2%	1%	2%	2%	19%
							grade 7 events	128374	141776	148538	140290	156007	68310
								83%	85%	85%	85%	86%	54%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	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	54.9379887554212	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	-8.074448792860984	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	354.6416132757241	[s] Primary exposure time	3.2	3.2
[mm] SIM focus pos	-1.429586	-0.6828225247311905			
[mm] SIM defocus	0.1037507710433287	0.8505141146731063			
[mm] SIM translation stage pos	250.455976	250.4635187648994			
[mm] SIM translation stage offset	0	-0.007540371344731511			
[s] Observation start time (MET)	564598215.609872	564598214.58487			
Observation start date	2015-11-22T16:50:16	2015-11-22T16:50:14			
[s] Observation end time (MET)	564610693.960579	564610692.93558			
Observation end date	2015-11-22T20:18:14	2015-11-22T20:18:12			
Read mode	TIMED	TIMED			

## **2.3 Star Slots**

## **2.4 FID Slots**

## A Summary

### A.1 Status

V&V Scientist	Doug Morgan
V&V Date (YYYY-MM-DD)	2015.11.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.4530406039953

### A.2 Comments