

# V&V Reference Report

## L2 ASCDS Version : 10.4.3.1

Observation 51106 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Apr 14 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

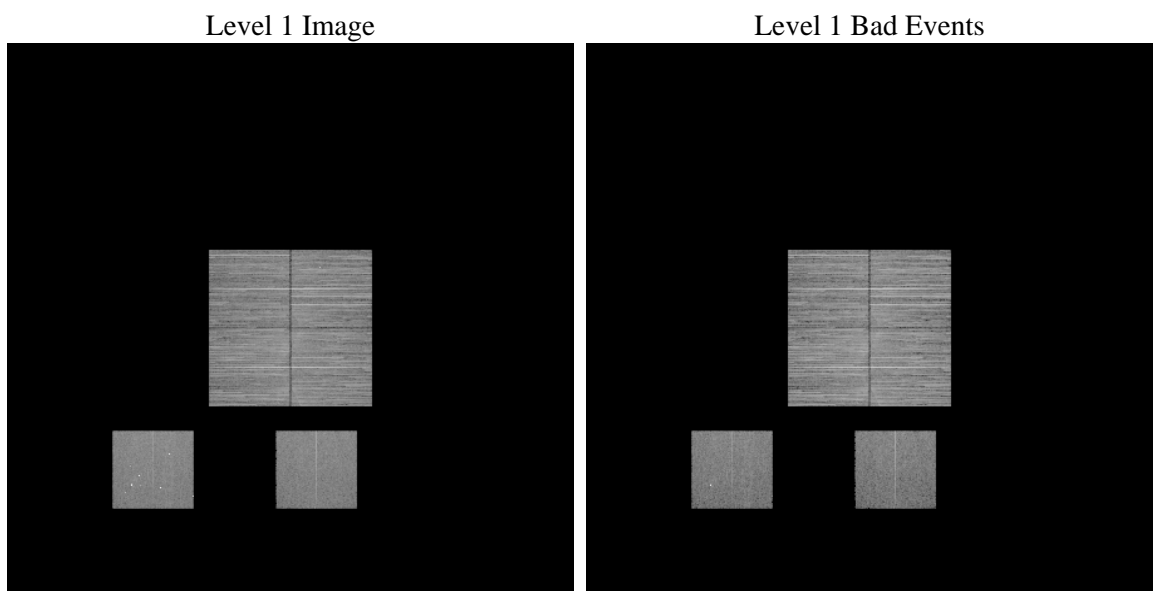
# 1 Front

seq_num	&#160	Sequence number
obs_id	51106	Observation id
title	ACIS-012357 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	198.87651050988	Nominal RA [deg]
dec_nom	14.983726632782	Nominal Dec [deg]
roll_nom	186.47490715277	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8249.6001229286	Sum of GTIs [s]
livetime	8145.1387188593	Livetime [s]
ontime0	8249.6001229286	Sum of GTIs [s]
ontime1	8249.6001229286	Sum of GTIs [s]
ontime2	8249.6001229286	Sum of GTIs [s]
ontime3	8249.6001229286	Sum of GTIs [s]
ontime5	8249.6001229286	Sum of GTIs [s]
ontime7	8249.6001229286	Sum of GTIs [s]
l2events	177980	Number of level 2 events

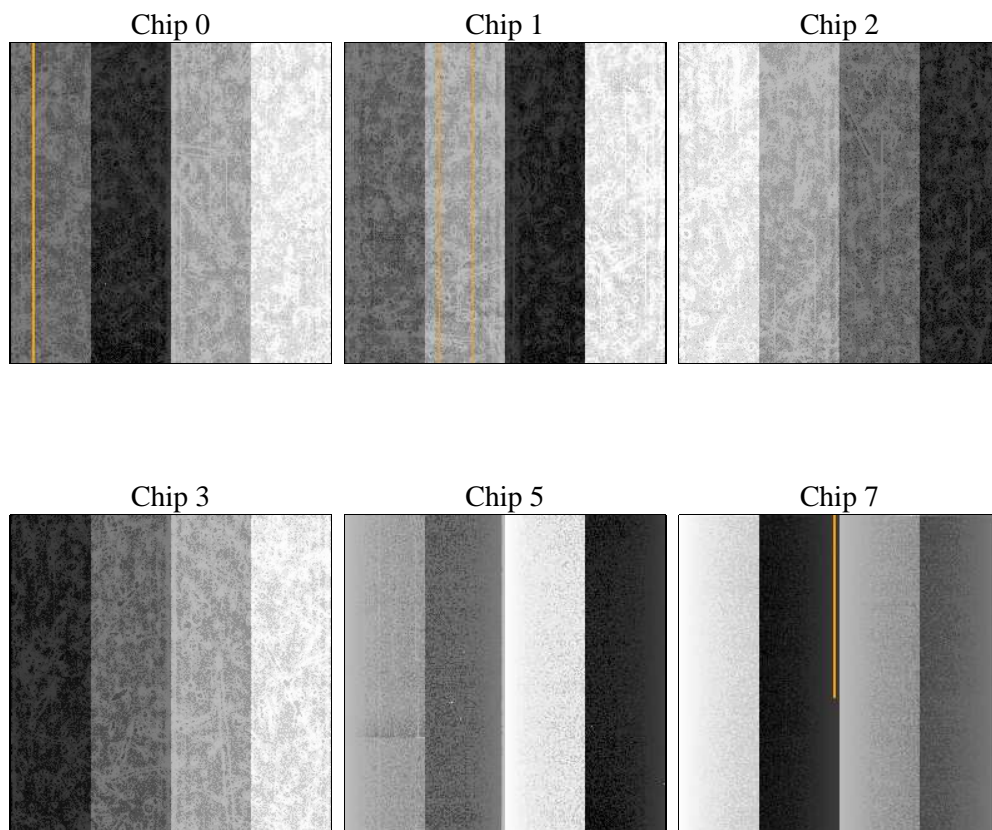
## 2 OBI

### 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	8249.6001229286	Sum of GTIs [s]
caldbver	4.7.1	&#160	ontime0	8249.6001229286	Sum of GTIs [s]
date	2016-04-14T09:39:46	Date and time of file creation	ontime1	8249.6001229286	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	8249.6001229286	Sum of GTIs [s]
			ontime3	8249.6001229286	Sum of GTIs [s]
			ontime5	8249.6001229286	Sum of GTIs [s]
			ontime7	8249.6001229286	Sum of GTIs [s]
			l1events	950728	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	147923	169480	177029	174774	150499	131023	grade 0 events	9369	9186	9839	9637	11904	5534
rejected events	127953	148767	156714	154848	84766	80129		6%	5%	5%	5%	7%	4%
rejected %	86%	87%	88%	88%	56%	61%	grade 1 events	62	52	75	75	183	117
								0%	0%	0%	0%	0%	0%
							grade 2 events	4419	4947	4211	4037	20938	12715
								2%	2%	2%	2%	13%	9%
							grade 3 events	1457	1394	1460	1502	2091	3588
								0%	0%	0%	0%	1%	2%
							grade 4 events	1329	1373	1509	1484	2135	3659
								0%	0%	0%	0%	1%	2%
							grade 5 events	3201	3153	2941	3591	6869	8445
								2%	1%	1%	2%	4%	6%
							grade 6 events	3396	3813	3296	3277	28665	25419
								2%	2%	1%	1%	19%	19%
							grade 7 events	124690	145562	153698	151171	77714	71546
								84%	85%	86%	86%	51%	54%

## 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	198.876510509878	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	14.98372663278218	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	186.4749071527705	[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	250.466033080201			
[mm] SIM translation stage offset	0	-0.01005468664627074			
[s] Observation start time (MET)	576895614.7947789	576895613.76978			
Observation start date	2016-04-13T00:46:55	2016-04-13T00:46:53			
[s] Observation end time (MET)	576908228.4455	576908227.4205			
Observation end date	2016-04-13T04:17:08	2016-04-13T04:17:07			
Read mode	TIMED	TIMED			

**2.3 Star Slots**

**2.4 FID Slots**

# A Summary

## A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2016.04.14
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.2496001229286

## A.2 Comments