

# V&V Reference Report

## L2 ASCDS Version : 8.5.1.1

Observation 53736 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Apr 29 2013

## 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

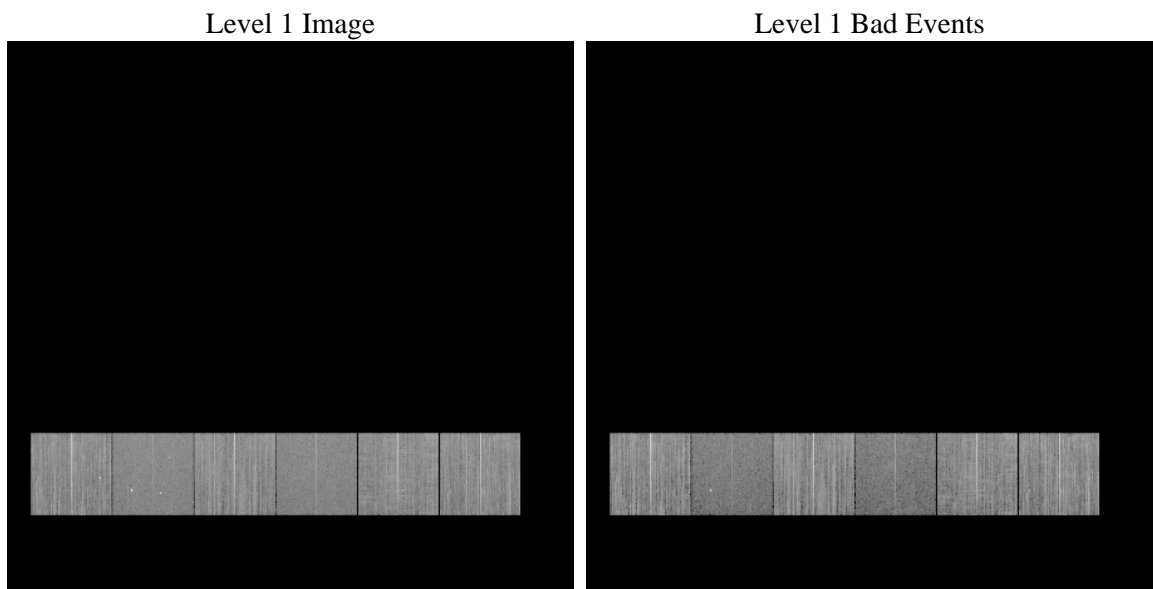
# 1 Front

seq_num	&#160	Sequence number
obs_id	53736	Observation id
title	ACIS-456789 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	197.12175097571	Nominal RA [deg]
dec_nom	6.822491137385	Nominal Dec [deg]
roll_nom	220.60955987079	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8399.9999687672	Sum of GTIs [s]
livetime	8293.6341112899	Livetime [s]
ontime4	8399.9999687672	Sum of GTIs [s]
ontime5	8399.9999687672	Sum of GTIs [s]
ontime6	8399.9999687672	Sum of GTIs [s]
ontime7	8399.9999687672	Sum of GTIs [s]
ontime8	8399.9999687672	Sum of GTIs [s]
ontime9	8399.9999687672	Sum of GTIs [s]
l2events	259371	Number of level 2 events

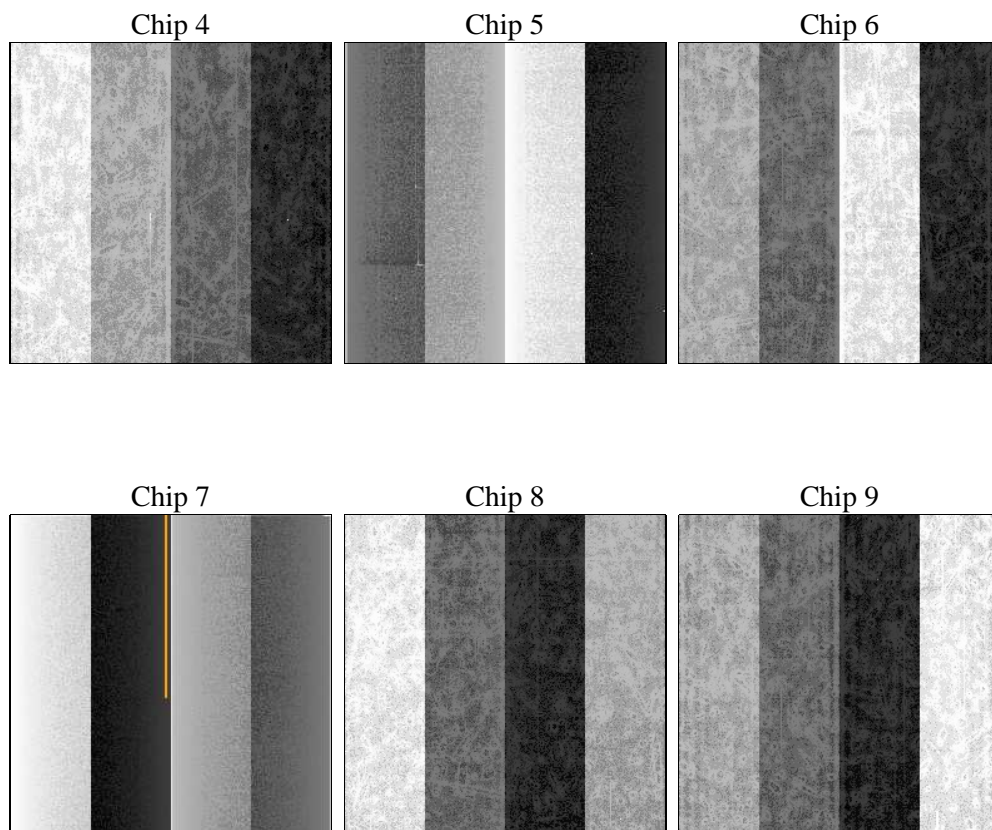
## 2 OBI

### 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	8.5.1.1	Processing system revision	ontime	8399.9999687672	Sum of GTIs [s]
caldsver	4.5.6	&#160	ontime4	8399.9999687672	Sum of GTIs [s]
date	2013-04-28T14:36:20	Date and time of file creation	ontime5	8399.9999687672	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	8399.9999687672	Sum of GTIs [s]
			ontime7	8399.9999687672	Sum of GTIs [s]
			ontime8	8399.9999687672	Sum of GTIs [s]
			ontime9	8399.9999687672	Sum of GTIs [s]
			l1events	1015619	Number of level 1 events

### 2.1.4 Events

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	179802	149901	183595	138036	180773	183512	grade 0 events	20302	8305	17919	9204	21132	17981
rejected events	143134	81746	146512	74104	133710	147559		11%	5%	9%	6%	11%	9%
rejected %	79%	54%	79%	53%	73%	80%	grade 1 events	146	160	73	89	118	102
								0%	0%	0%	0%	0%	0%
							grade 2 events	6893	25225	7859	15999	9805	7196
								3%	16%	4%	11%	5%	3%
							grade 3 events	2446	2223	2430	5095	3624	2546
								1%	1%	1%	3%	2%	1%
							grade 4 events	2390	2120	2403	5130	3488	2379
								1%	1%	1%	3%	1%	1%
							grade 5 events	3302	6735	3280	8096	4353	3769
								1%	4%	1%	5%	2%	2%
							grade 6 events	4901	30751	6692	28937	9322	6095
								2%	20%	3%	20%	5%	3%
							grade 7 events	139422	74382	142939	65486	128931	143444
								77%	49%	77%	47%	71%	78%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-456789	ACIS-456789	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	197.12175097571	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	6.822491137384972	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	220.6095598707917	[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)	483473966.224033	483473965.19903			
Observation start date	2013-04-27T18:19:26	2013-04-27T18:19:25			
[s] Observation end time (MET)	483484146.524585	483484145.49959			
Observation end date	2013-04-27T21:09:07	2013-04-27T21:09:05			
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)	2013.04.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.3999999687672

### A.2 Comments