

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 56012 - L2 Version 2  
Chandra X-Ray Center

L2 Processing Date : Jul 3 2012

## 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

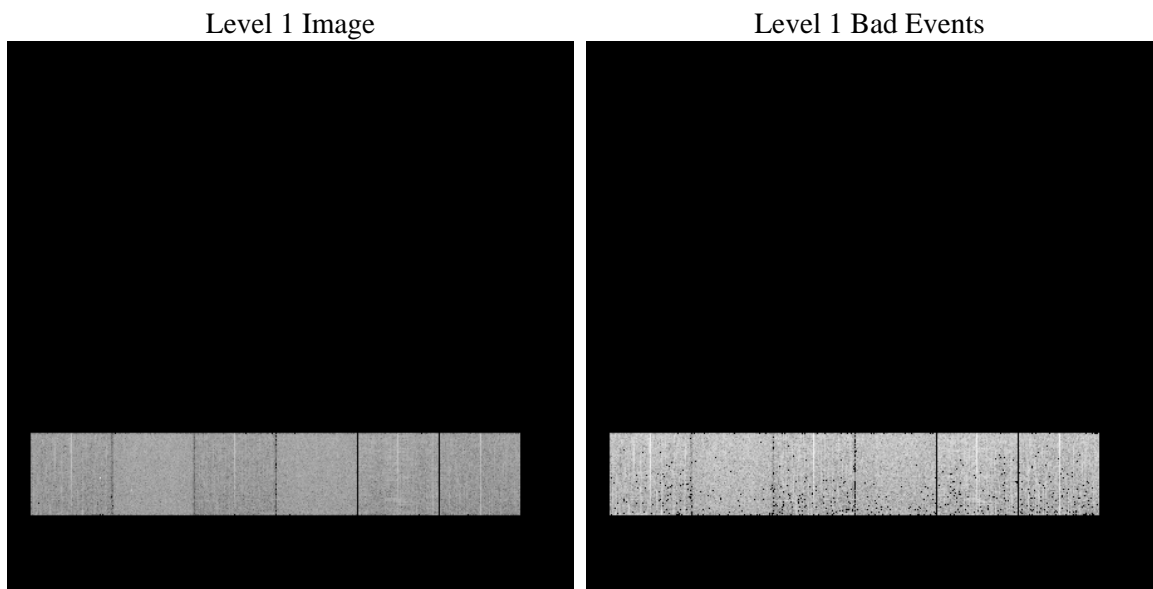
# 1 Front

seq_num	&#160	Sequence number
obs_id	56012	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	6.8205080741588	Nominal RA [deg]
dec_nom	-22.978393455545	Nominal Dec [deg]
roll_nom	15.812194388514	Nominal Roll [deg]
revision	2	Processing version of data
ontime	3279.1084145904	Sum of GTIs [s]
livetime	3237.5863694028	Livetime [s]
ontime4	3278.9852945805	Sum of GTIs [s]
ontime5	3279.0673745871	Sum of GTIs [s]
ontime6	3279.0263345838	Sum of GTIs [s]
ontime7	3279.1084145904	Sum of GTIs [s]
ontime8	3278.9442545772	Sum of GTIs [s]
ontime9	3279.1494545937	Sum of GTIs [s]
l2events	156985	Number of level 2 events

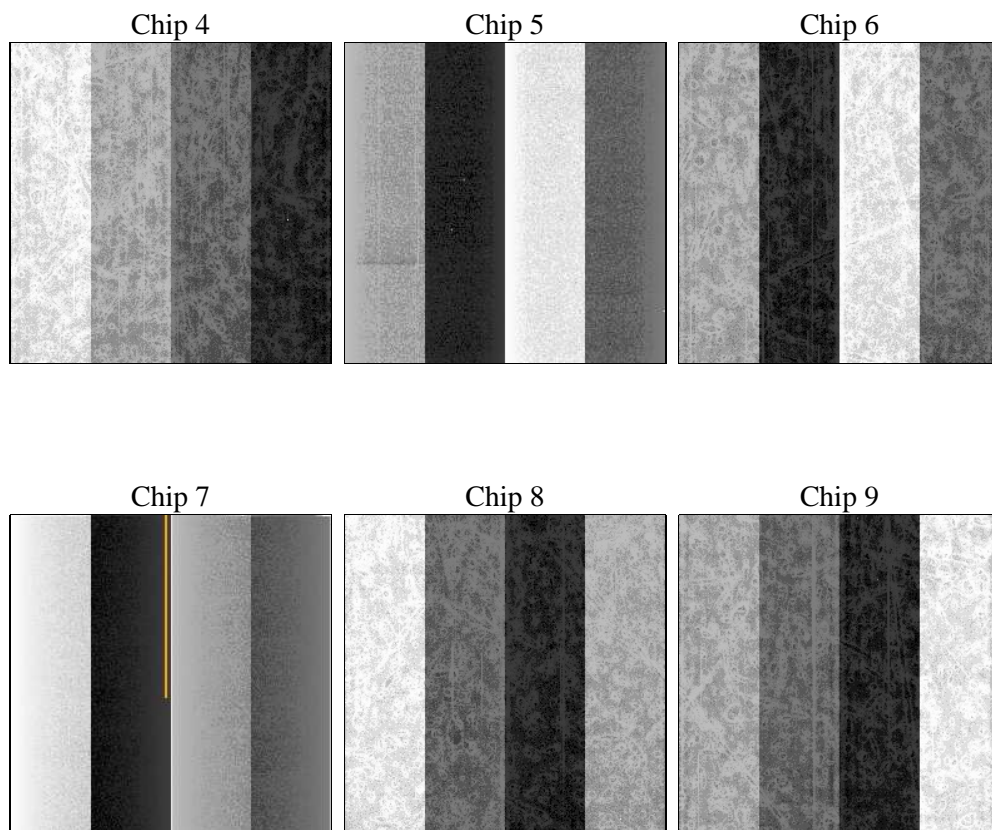
## 2 OBI

### 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	8.4.5	Processing system revision	ontime	3279.1084145904	Sum of GTIs [s]
caldbver	4.5.0	&#160	ontime4	3278.9852945805	Sum of GTIs [s]
date	2012-07-04T02:02:55	Date and time of file creation	ontime5	3279.0673745871	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	3279.0263345838	Sum of GTIs [s]
			ontime7	3279.1084145904	Sum of GTIs [s]
			ontime8	3278.9442545772	Sum of GTIs [s]
			ontime9	3279.1494545937	Sum of GTIs [s]
			l1events	333661	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	50852	63157	49483	61642	58973	49554	grade 0 events	12822	4434	12320	6335	13845	12142
rejected events	28170	26786	25733	25537	29966	26381		25%	7%	24%	10%	23%	24%
rejected %	55%	42%	52%	41%	50%	53%	grade 1 events	137	72	64	53	95	81
								0%	0%	0%	0%	0%	0%
							grade 2 events	3575	12981	4249	7801	5601	4117
								7%	20%	8%	12%	9%	8%
							grade 3 events	1672	1548	1558	3224	2160	1615
								3%	2%	3%	5%	3%	3%
							grade 4 events	1568	1497	1564	3231	2083	1563
								3%	2%	3%	5%	3%	3%
							grade 5 events	1532	3418	1564	4060	2119	1800
								3%	5%	3%	6%	3%	3%
							grade 6 events	3045	15911	4059	15514	5318	3736
								5%	25%	8%	25%	9%	7%
							grade 7 events	26501	23296	24105	21424	27752	24500
								52%	36%	48%	34%	47%	49%

## 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	6.820508074158773	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	-22.97839345554478	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	15.81219438851432	[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)	401679158.269834	401679157.24484			
Observation start date	2010-09-24T01:32:38	2010-09-24T01:32:37			
[s] Observation end time (MET)	401684338.6201	401684337.5951			
Observation end date	2010-09-24T02:58:59	2010-09-24T02:58:57			
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)	2012.07.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.2791084145904

### **A.2 Comments**