

# V&V Reference Report

## L2 ASCDS Version : 10.3.3

Observation 52123 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Jan 28 2015

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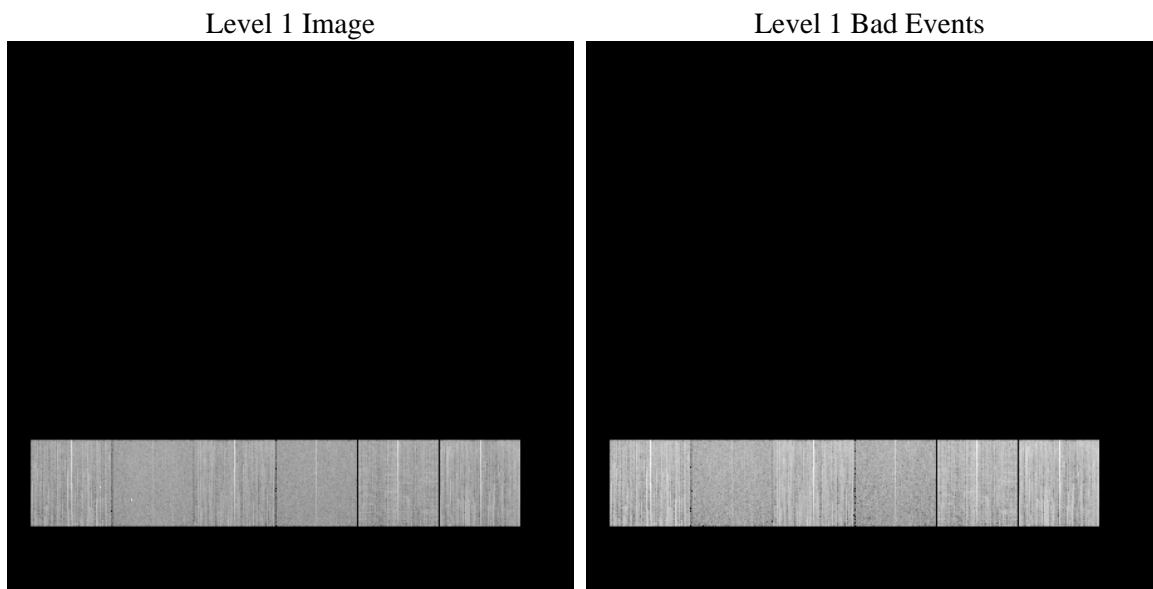
# 1 Front

seq_num	&#160	Sequence number
obs_id	52123	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	112.03303061039	Nominal RA [deg]
dec_nom	1.3961959538573	Nominal Dec [deg]
roll_nom	315.51051311645	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8182.4001219273	Sum of GTIs [s]
livetime	8078.7896447336	Livetime [s]
ontime4	8124.0605084896	Sum of GTIs [s]
ontime5	8182.4001219273	Sum of GTIs [s]
ontime6	8114.3382313251	Sum of GTIs [s]
ontime7	8182.4001219273	Sum of GTIs [s]
ontime8	8127.3024419546	Sum of GTIs [s]
ontime9	8133.7844611406	Sum of GTIs [s]
l2events	183303	Number of level 2 events

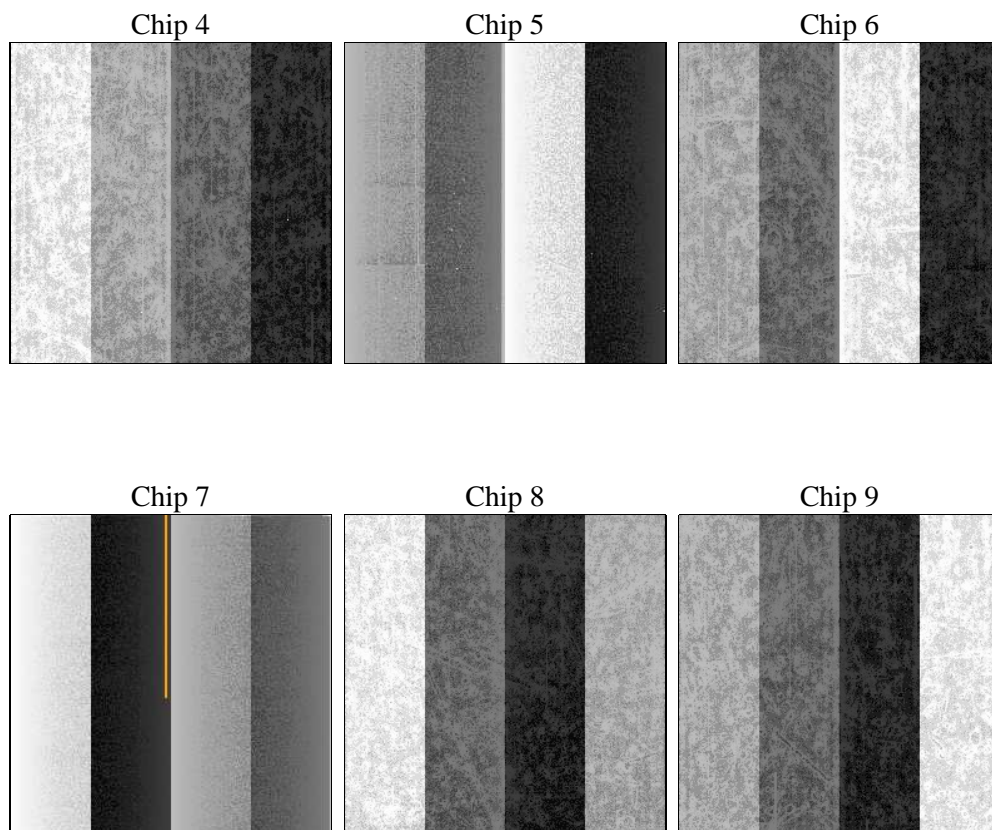
## 2 OBI

### 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	10.3.3	Processing system revision	ontime	8182.4001219273	Sum of GTIs [s]
caldsver	4.6.6	&#160	ontime4	8124.0605084896	Sum of GTIs [s]
date	2015-01-28T16:26:42	Date and time of file creation	ontime5	8182.4001219273	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	8114.3382313251	Sum of GTIs [s]
			ontime7	8182.4001219273	Sum of GTIs [s]
			ontime8	8127.3024419546	Sum of GTIs [s]
			ontime9	8133.7844611406	Sum of GTIs [s]
			l1events	819582	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	145720	121717	143831	113120	140127	155067	grade 0 events	13169	3923	11109	5898	13756	11578
rejected events	121396	70963	119641	66086	108584	131103		9%	3%	7%	5%	9%	7%
rejected %	83%	58%	83%	58%	77%	84%	grade 1 events	95	148	62	84	75	80
								0%	0%	0%	0%	0%	0%
							grade 2 events	4672	18902	5838	11945	6843	5079
								3%	15%	4%	10%	4%	3%
							grade 3 events	1733	1517	1510	3575	2467	1629
								1%	1%	1%	3%	1%	1%
							grade 4 events	1723	1465	1462	3478	2360	1662
								1%	1%	1%	3%	1%	1%
							grade 5 events	3038	5259	2744	6780	3764	3282
								2%	4%	1%	5%	2%	2%
							grade 6 events	3276	25486	4544	22674	6449	4252
								2%	20%	3%	20%	4%	2%
							grade 7 events	118014	65017	116562	58686	104413	127505
								80%	53%	81%	51%	74%	82%

## 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	112.0330306103867	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	1.3961959538573	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	315.5105131164489	[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)	538774152.218794	538774151.19379			
Observation start date	2015-01-27T19:29:12	2015-01-27T19:29:11			
[s] Observation end time (MET)	538787073.369517	538787072.34452			
Observation end date	2015-01-27T23:04:33	2015-01-27T23:04:32			
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)	2015.01.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.1824001219273

### A.2 Comments