

# V&V Reference Report

## L2 ASCDS Version : 10.2.1

Observation 52911 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Mar 21 2014

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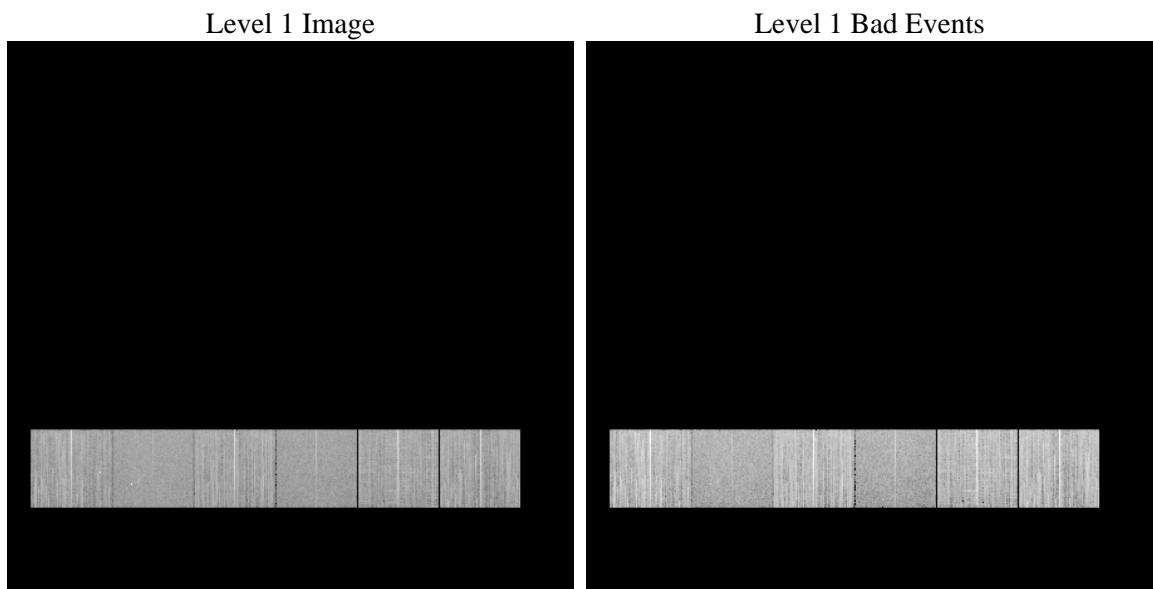
# 1 Front

seq_num	&#160	Sequence number
obs_id	52911	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	148.01546777261	Nominal RA [deg]
dec_nom	-0.024219806466353	Nominal Dec [deg]
roll_nom	269.78853900514	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8281.0914798975	Sum of GTIs [s]
livetime	8176.2313133044	Livetime [s]
ontime4	8280.9683598876	Sum of GTIs [s]
ontime5	8281.0504398942	Sum of GTIs [s]
ontime6	8281.0093998909	Sum of GTIs [s]
ontime7	8281.0914798975	Sum of GTIs [s]
ontime8	8280.9273198843	Sum of GTIs [s]
ontime9	8281.1325199008	Sum of GTIs [s]
l2events	205942	Number of level 2 events

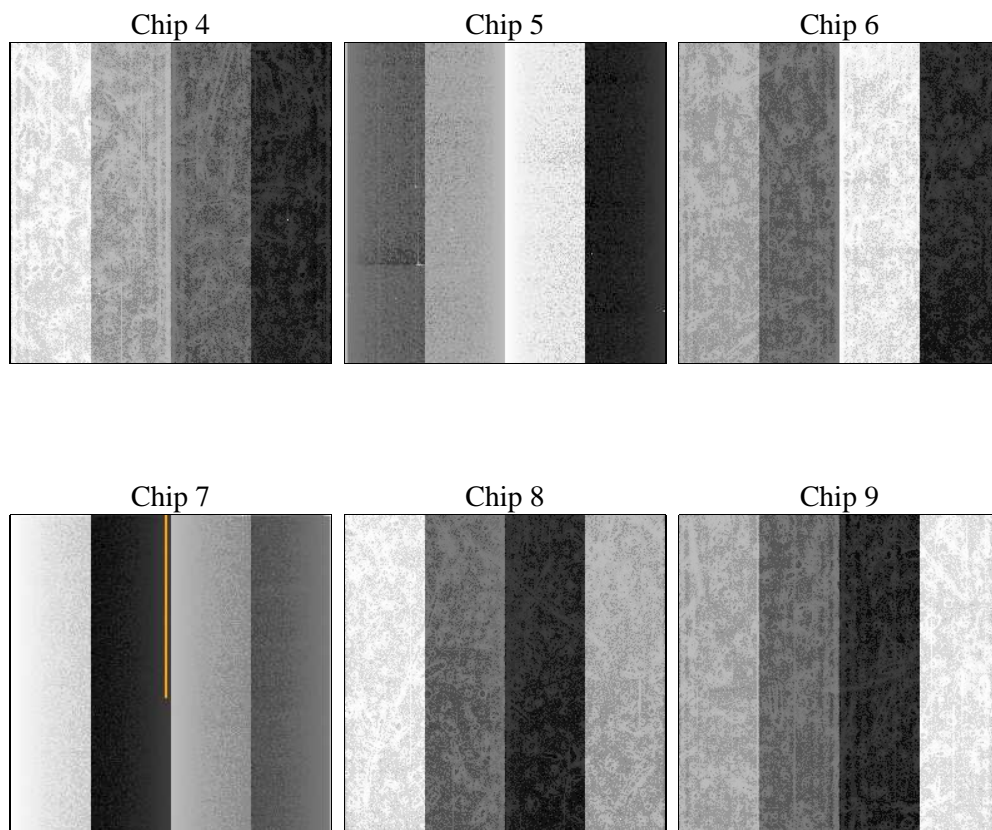
## 2 OBI

### 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	10.2.1	Processing system revision	ontime	8281.0914798975	Sum of GTIs [s]
caldsver	4.6.0	&#160	ontime4	8280.9683598876	Sum of GTIs [s]
date	2014-03-22T03:01:08	Date and time of file creation	ontime5	8281.0504398942	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	8281.0093998909	Sum of GTIs [s]
			ontime7	8281.0914798975	Sum of GTIs [s]
			ontime8	8280.9273198843	Sum of GTIs [s]
			ontime9	8281.1325199008	Sum of GTIs [s]
			l1events	811323	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	140769	121650	145705	114222	142971	146006	grade 0 events	15044	5285	14112	7450	16027	13911
rejected events	112820	67101	117215	62375	106503	118294		10%	4%	9%	6%	11%	9%
rejected %	80%	55%	80%	54%	74%	81%	grade 1 events	103	256	75	84	87	82
								0%	0%	0%	0%	0%	0%
							grade 2 events	5311	19954	5817	12554	7719	5386
								3%	16%	3%	10%	5%	3%
							grade 3 events	1985	2306	1889	4178	2672	1933
								1%	1%	1%	3%	1%	1%
							grade 4 events	1876	1971	1883	4307	2677	1835
								1%	1%	1%	3%	1%	1%
							grade 5 events	3074	5857	2969	7166	3854	3385
								2%	4%	2%	6%	2%	2%
							grade 6 events	3741	25061	4801	23376	7389	4658
								2%	20%	3%	20%	5%	3%
							grade 7 events	109635	60960	114159	55107	102546	114816
								77%	50%	78%	48%	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	148.0154677726127	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	-0.02421980646635339	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	269.7885390051376	[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)	511776138.621165	511776137.59616			
Observation start date	2014-03-21T08:02:19	2014-03-21T08:02:17			
[s] Observation end time (MET)	511786517.771737	511786516.74674			
Observation end date	2014-03-21T10:55:18	2014-03-21T10:55:16			
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)	2014.03.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.2810914798975

### A.2 Comments