

# V&V Reference Report

## L2 ASCDS Version : 10.4.3.1

Observation 51028 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : May 12 2016

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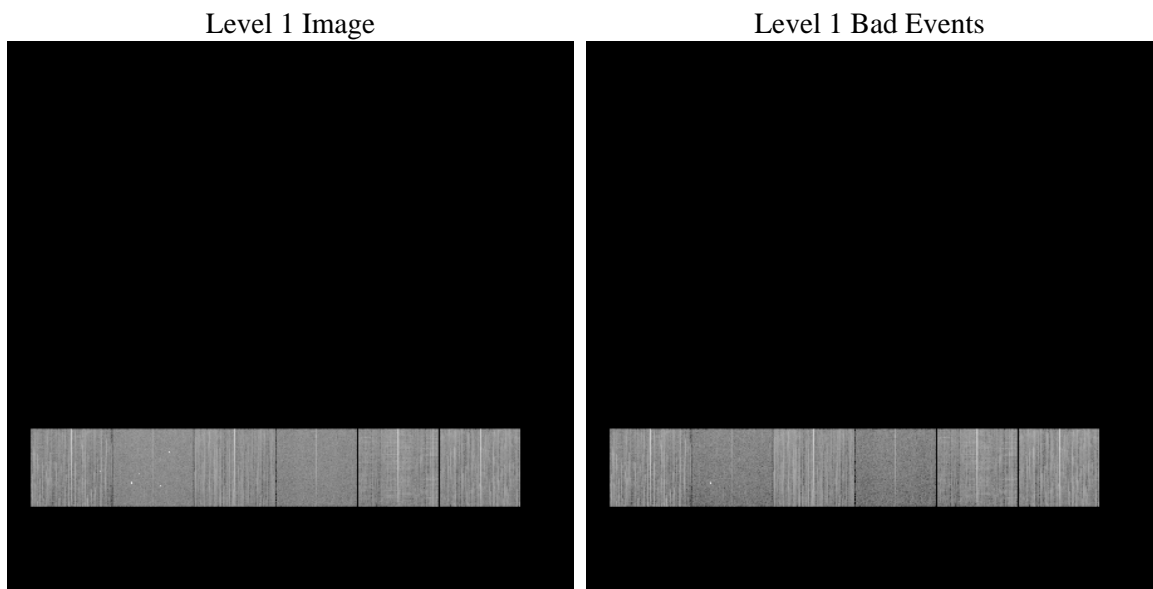
# 1 Front

seq_num	&#160	Sequence number
obs_id	51028	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	93.046541899022	Nominal RA [deg]
dec_nom	55.987432989461	Nominal Dec [deg]
roll_nom	301.4350217283	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8393.6001250744	Sum of GTIs [s]
livetime	8287.3153062715	Livetime [s]
ontime4	8393.6001250744	Sum of GTIs [s]
ontime5	8393.6001250744	Sum of GTIs [s]
ontime6	8393.6001250744	Sum of GTIs [s]
ontime7	8393.6001250744	Sum of GTIs [s]
ontime8	8393.6001250744	Sum of GTIs [s]
ontime9	8393.6001250744	Sum of GTIs [s]
l2events	190184	Number of level 2 events

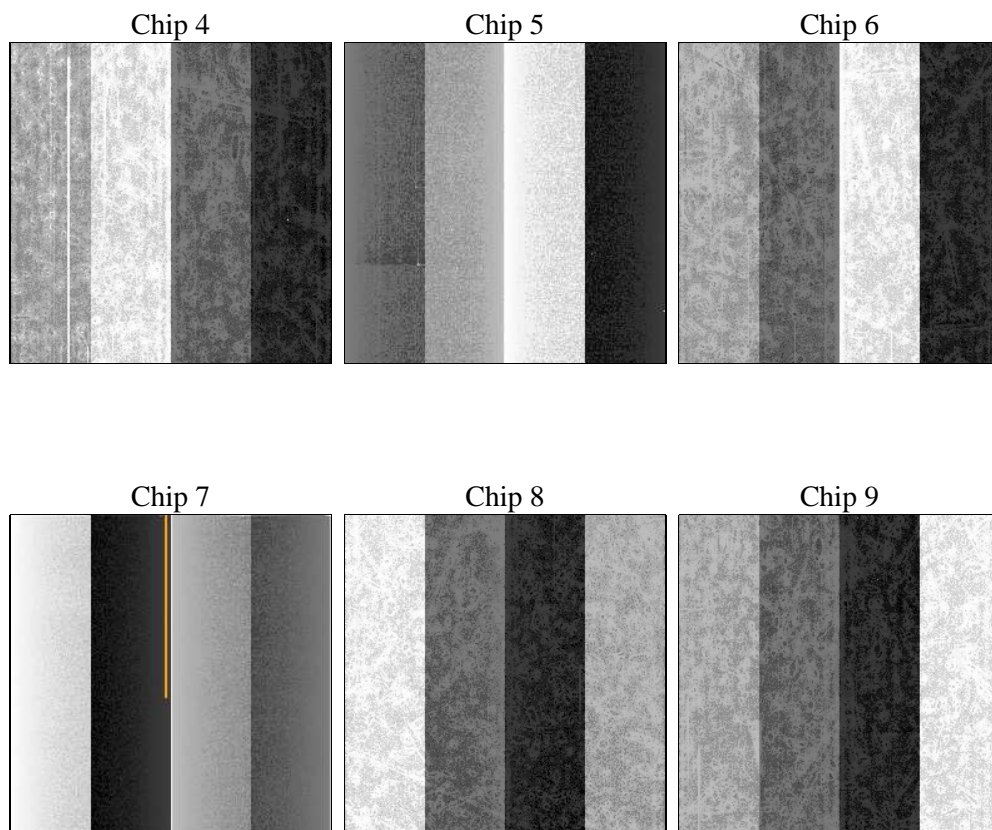
## 2 OBI

### 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	8393.6001250744	Sum of GTIs [s]
caldsver	4.7.1	&#160	ontime4	8393.6001250744	Sum of GTIs [s]
date	2016-05-13T02:48:06	Date and time of file creation	ontime5	8393.6001250744	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	8393.6001250744	Sum of GTIs [s]
			ontime7	8393.6001250744	Sum of GTIs [s]
			ontime8	8393.6001250744	Sum of GTIs [s]
			ontime9	8393.6001250744	Sum of GTIs [s]
			l1events	1018895	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	173870	154835	184946	136056	180162	189026	grade 0 events	10893	6811	9717	6062	13290	9844
rejected events	152264	91040	163589	81750	146224	167838		6%	4%	5%	4%	7%	5%
rejected %	87%	58%	88%	60%	81%	88%	grade 1 events	123	179	54	126	88	78
								0%	0%	0%	0%	0%	0%
							grade 2 events	4487	22494	4767	13655	7650	4579
								2%	14%	2%	10%	4%	2%
							grade 3 events	1698	1929	1522	4214	2977	1521
								0%	1%	0%	3%	1%	0%
							grade 4 events	1561	1846	1509	4080	2803	1603
								0%	1%	0%	2%	1%	0%
							grade 5 events	3692	7365	3715	9091	4930	4208
								2%	4%	2%	6%	2%	2%
							grade 6 events	3074	31050	3951	26625	7409	3765
								1%	20%	2%	19%	4%	1%
							grade 7 events	148342	83161	159711	72203	141015	163428
								85%	53%	86%	53%	78%	86%

## 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	93.04654189902183	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	55.98743298946137	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	301.4350217282985	[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	250.4635187648994			
[mm] SIM translation stage offset	0	-0.007540371344731511			
[s] Observation start time (MET)	579450370.040832	579450369.01583			
Observation start date	2016-05-12T14:26:10	2016-05-12T14:26:09			
[s] Observation end time (MET)	579464035.341614	579464034.31661			
Observation end date	2016-05-12T18:13:55	2016-05-12T18:13:54			
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)	2016.05.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.3936001250744

### A.2 Comments