

# V&V Reference Report

## L2 ASCDS Version : 10.3.3

Observation 52049 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Feb 25 2015

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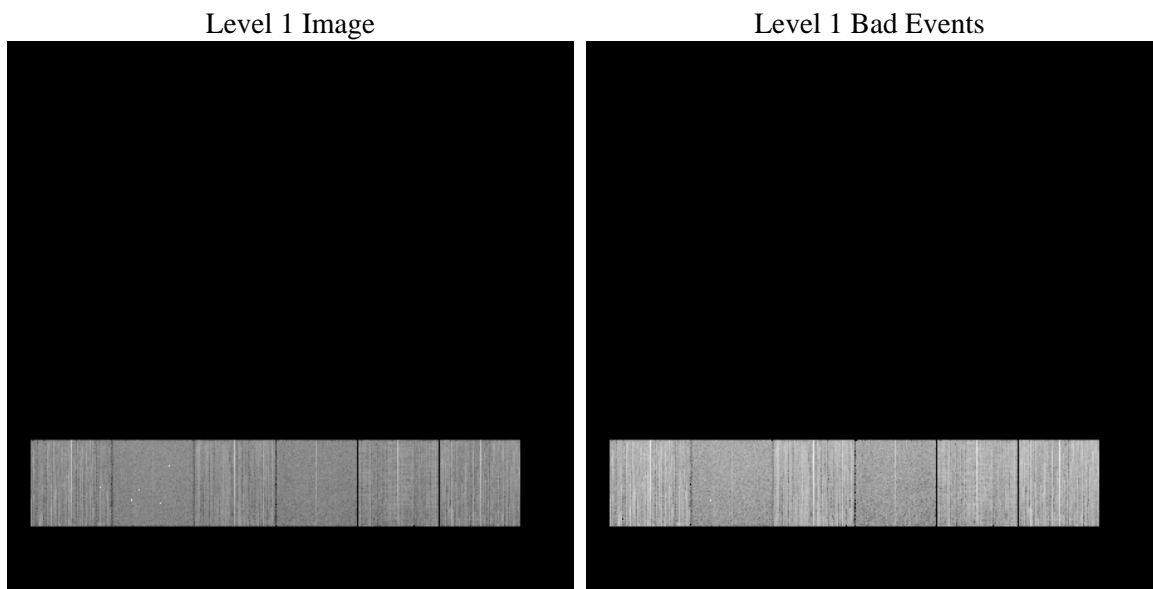
# 1 Front

seq_num	&#160	Sequence number
obs_id	52049	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	287.98519641945	Nominal RA [deg]
dec_nom	-10.97497473597	Nominal Dec [deg]
roll_nom	87.322822409573	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8037.9601473808	Sum of GTIs [s]
livetime	7936.1786561162	Livetime [s]
ontime4	8037.8370273113	Sum of GTIs [s]
ontime5	8037.9191073179	Sum of GTIs [s]
ontime6	8037.8780673742	Sum of GTIs [s]
ontime7	8037.9601473808	Sum of GTIs [s]
ontime8	8037.7959873676	Sum of GTIs [s]
ontime9	8038.0011873245	Sum of GTIs [s]
l2events	178829	Number of level 2 events

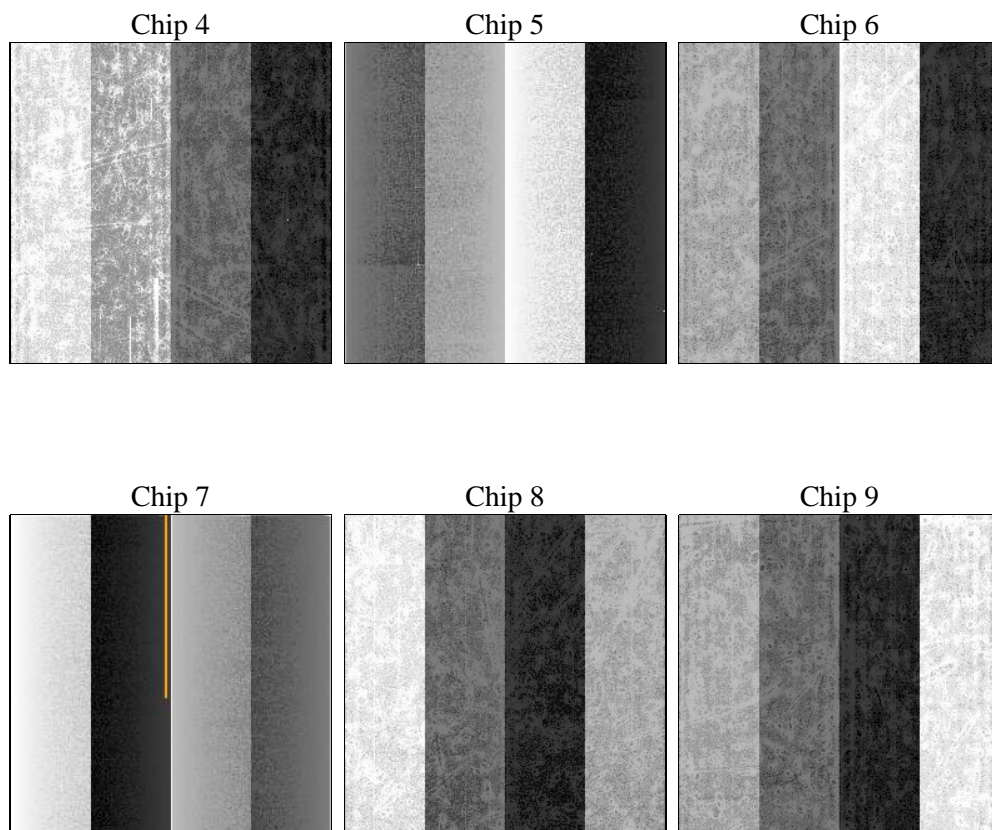
## 2 OBI

### 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	8037.9601473808	Sum of GTIs [s]
caldsver	4.6.7	&#160	ontime4	8037.8370273113	Sum of GTIs [s]
date	2015-02-26T04:44:12	Date and time of file creation	ontime5	8037.9191073179	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	8037.8780673742	Sum of GTIs [s]
			ontime7	8037.9601473808	Sum of GTIs [s]
			ontime8	8037.7959873676	Sum of GTIs [s]
			ontime9	8038.0011873245	Sum of GTIs [s]
			l1events	838151	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	147659	126767	150835	111979	143681	157230	grade 0 events	13507	8210	11244	6194	13683	11479
rejected events	123842	71089	127579	65252	112026	134289		9%	6%	7%	5%	9%	7%
rejected %	83%	56%	84%	58%	77%	85%	grade 1 events	108	128	40	77	73	84
								0%	0%	0%	0%	0%	0%
							grade 2 events	4474	20036	5209	11722	6931	4715
								3%	15%	3%	10%	4%	2%
							grade 3 events	1696	1799	1589	3776	2756	1625
								1%	1%	1%	3%	1%	1%
							grade 4 events	1650	1746	1578	3872	2540	1685
								1%	1%	1%	3%	1%	1%
							grade 5 events	2983	5857	3022	7187	3918	3355
								2%	4%	2%	6%	2%	2%
							grade 6 events	3181	25503	4317	22542	6680	4068
								2%	20%	2%	20%	4%	2%
							grade 7 events	120060	63488	123836	56609	107100	130219
								81%	50%	82%	50%	74%	82%

## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-456789	ACIS-456789
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	SECONDARY	SECONDARY
[deg] Pointing RA	0	287.9851964194524
[deg] Pointing Dec	0	-10.9749747359696
[deg] Pointing Roll	0.0	87.32282240957278
SIM focus pos (mm)	-1.4281808131	-1.4281808131
[mm] SIM defocus	0.1051557500557434	0.1051557500557434
SIM translation stage pos (mm)	250.4660330802	250.4660330802
[mm] SIM translation stage offset	-0.01005726120527584	-0.01005726120527584
[s] Observation start time (MET)	541250087.007127	541250087.007127
Observation start date	2015-02-25T11:14:47	2015-02-25T11:14:47
[s] Observation end time (MET)	541259636.858651	541259636.858651
Observation end date	2015-02-25T13:53:57	2015-02-25T13:53:56
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	OVERRIDE	OVERRIDE
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	3.2	3.2

## **2.3 Star Slots**

## **2.4 FID Slots**

## A Summary

### A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2015.02.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.0379601473808

### A.2 Comments