

# V&V Reference Report

## L2 ASCDS Version : 8.5.1.1

Observation 53673 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : May 28 2013

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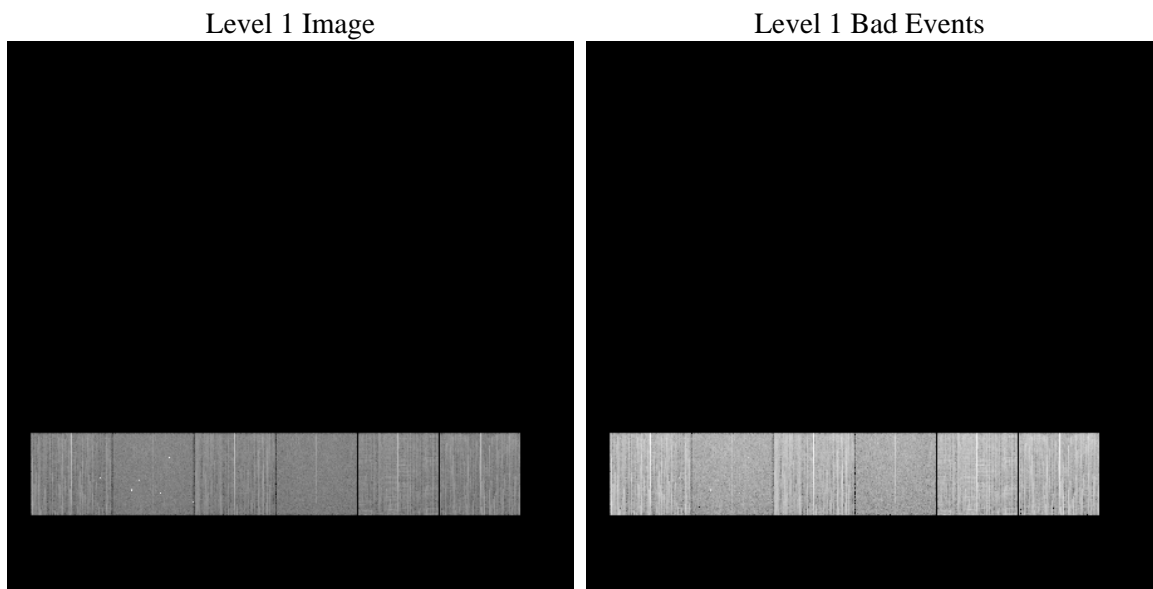
# 1 Front

seq_num	&#160	Sequence number
obs_id	53673	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	285.74937326138	Nominal RA [deg]
dec_nom	2.9935331999984	Nominal Dec [deg]
roll_nom	115.02630406822	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8089.0626300573	Sum of GTIs [s]
livetime	7986.6340483868	Livetime [s]
ontime4	8088.9395100474	Sum of GTIs [s]
ontime5	8089.021590054	Sum of GTIs [s]
ontime6	8088.9805500507	Sum of GTIs [s]
ontime7	8089.0626300573	Sum of GTIs [s]
ontime8	8088.8984700441	Sum of GTIs [s]
ontime9	8089.1036700606	Sum of GTIs [s]
l2events	222388	Number of level 2 events

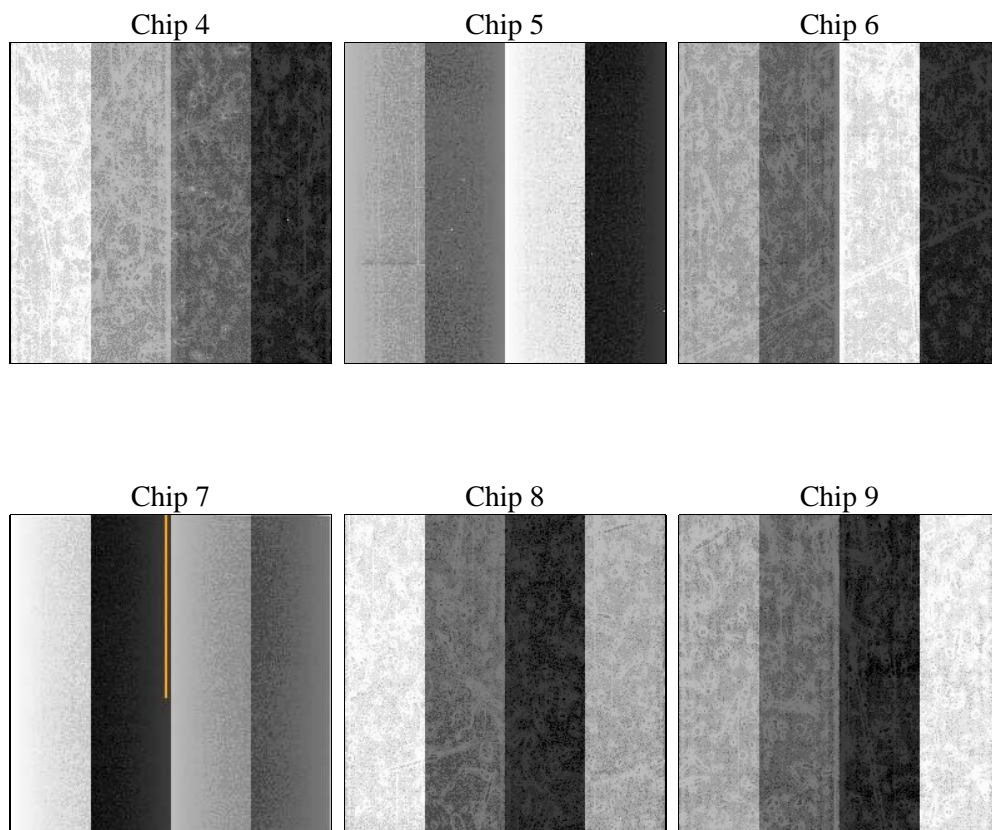
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	2	Obi number	sched_exp_time	0.0	[s] Scheduled observation exposure time
ascdsver	8.5.1.1	Processing system revision	ontime	8089.0626300573	Sum of GTIs [s]
caldsver	4.5.6	&#160	ontime4	8088.9395100474	Sum of GTIs [s]
date	2013-05-28T17:12:12	Date and time of file creation	ontime5	8089.021590054	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	8088.9805500507	Sum of GTIs [s]
			ontime7	8089.0626300573	Sum of GTIs [s]
			ontime8	8088.8984700441	Sum of GTIs [s]
			ontime9	8089.1036700606	Sum of GTIs [s]
			l1events	847398	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	146396	130591	147659	116958	155540	150254	grade 0 events	18659	11667	16528	8062	18530	16039
rejected events	113971	67272	115167	63250	115961	119115		12%	8%	11%	6%	11%	10%
rejected %	77%	51%	77%	54%	74%	79%	grade 1 events	133	183	79	56	103	95
								0%	0%	0%	0%	0%	0%
							grade 2 events	5887	23458	6847	13720	8139	6249
								4%	17%	4%	11%	5%	4%
							grade 3 events	2163	2057	2100	4508	3085	2125
								1%	1%	1%	3%	1%	1%
							grade 4 events	2272	1977	2147	4432	3002	2138
								1%	1%	1%	3%	1%	1%
							grade 5 events	2943	5332	2803	6732	3827	3191
								2%	4%	1%	5%	2%	2%
							grade 6 events	4200	25708	5697	24332	7727	5316
								2%	19%	3%	20%	4%	3%
							grade 7 events	110139	60209	111458	55116	111127	115101
								75%	46%	75%	47%	71%	76%

## 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	285.7493732613825
[deg] Pointing Dec	0	2.993533199998417
[deg] Pointing Roll	0.0	115.0263040682164
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)	485956381.058583	485956381.058583
Observation start date	2013-05-26T11:53:01	2013-05-26T11:53:01
[s] Observation end time (MET)	485965697.709519	485965697.709519
Observation end date	2013-05-26T14:28:18	2013-05-26T14:28:17
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	Jen Lauer
V&V Date (YYYY-MM-DD)	2013.05.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.0890626300573

### A.2 Comments