

# V&V Reference Report

## L2 ASCDS Version : 10.1

Observation 53310 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Oct 12 2013

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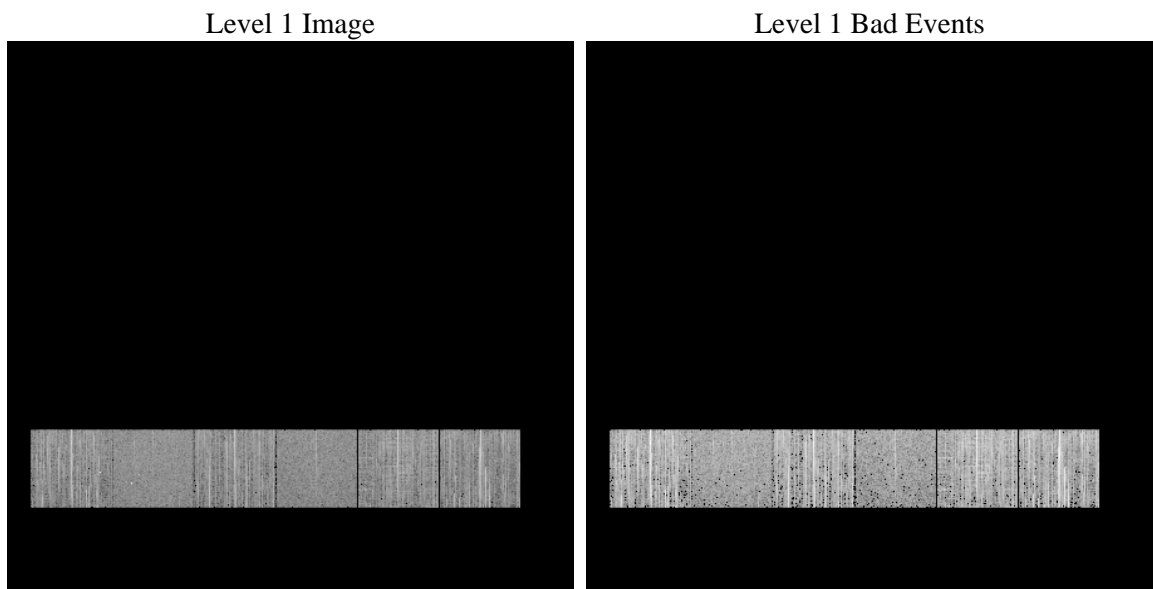
# 1 Front

seq_num	&#160	Sequence number
obs_id	53310	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	161.02011533788	Nominal RA [deg]
dec_nom	30.034752957841	Nominal Dec [deg]
roll_nom	48.641035170082	Nominal Roll [deg]
revision	1	Processing version of data
ontime	3281.7869004607	Sum of GTIs [s]
livetime	3240.2309386723	Livetime [s]
ontime4	3281.6637804508	Sum of GTIs [s]
ontime5	3281.7458604574	Sum of GTIs [s]
ontime6	3281.7048204541	Sum of GTIs [s]
ontime7	3281.7869004607	Sum of GTIs [s]
ontime8	3281.6227404475	Sum of GTIs [s]
ontime9	3281.827940464	Sum of GTIs [s]
l2events	89566	Number of level 2 events

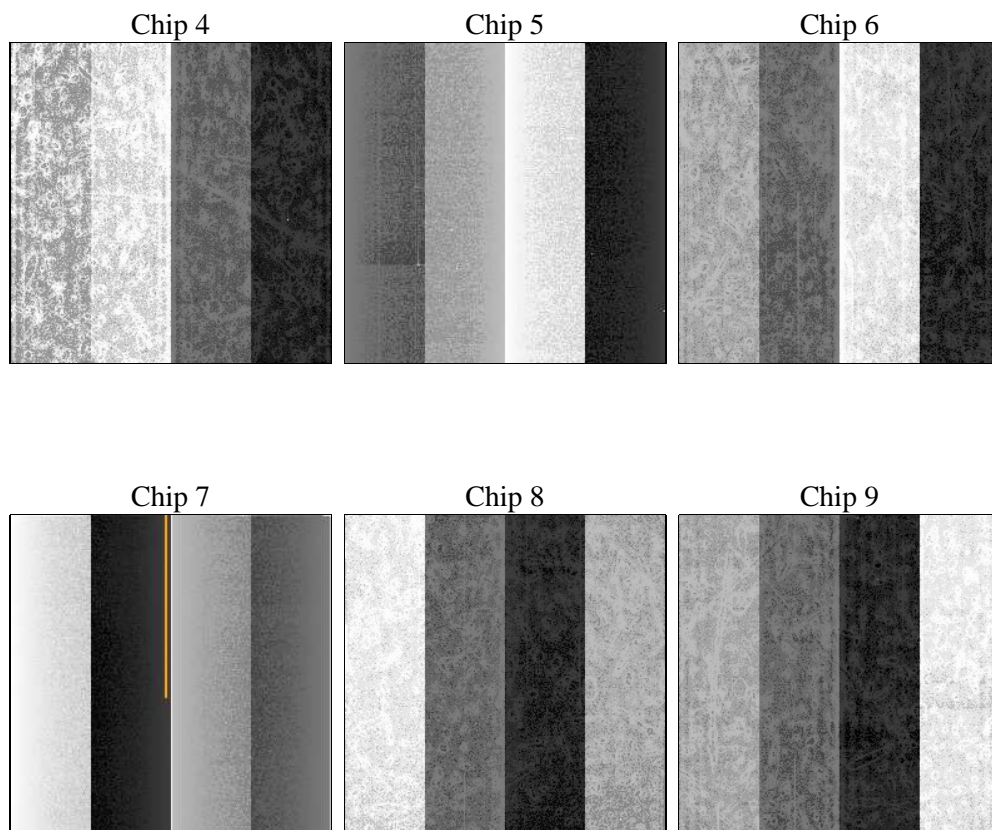
## 2 OBI

### 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	10.1	Processing system revision	ontime	3281.7869004607	Sum of GTIs [s]
caldbver	4.5.8	&#160	ontime4	3281.6637804508	Sum of GTIs [s]
date	2013-10-12T05:50:50	Date and time of file creation	ontime5	3281.7458604574	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	3281.7048204541	Sum of GTIs [s]
			ontime7	3281.7869004607	Sum of GTIs [s]
			ontime8	3281.6227404475	Sum of GTIs [s]
			ontime9	3281.827940464	Sum of GTIs [s]
			l1events	346140	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	61760	52264	59488	47525	63492	61611	grade 0 events	7082	2684	6109	3180	7268	6051
rejected events	49056	28326	46970	25340	47418	49638		11%	5%	10%	6%	11%	9%
rejected %	79%	54%	78%	53%	74%	80%	grade 1 events	54	39	28	25	35	40
								0%	0%	0%	0%	0%	0%
							grade 2 events	2348	8770	2513	5385	3240	2391
								3%	16%	4%	11%	5%	3%
							grade 3 events	872	926	819	1858	1231	789
								1%	1%	1%	3%	1%	1%
							grade 4 events	833	885	835	1786	1179	814
								1%	1%	1%	3%	1%	1%
							grade 5 events	1237	2406	1219	2932	1533	1360
								2%	4%	2%	6%	2%	2%
							grade 6 events	1569	10673	2242	9976	3156	1928
								2%	20%	3%	20%	4%	3%
							grade 7 events	47765	25881	45723	22383	45850	48238
								77%	49%	76%	47%	72%	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	161.0201153378801	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	30.03475295784142	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	48.64103517008188	[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)	497872754.957654	497872753.93265			
Observation start date	2013-10-11T09:59:15	2013-10-11T09:59:13			
[s] Observation end time (MET)	497878000.907941	497877999.88294			
Observation end date	2013-10-11T11:26:41	2013-10-11T11:26:39			
Read mode	TIMED	TIMED			

## **2.3 Star Slots**

## **2.4 FID Slots**

## A Summary

### A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2013.10.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.2817869004607

### A.2 Comments