

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 56953 - L2 Version 2  
Chandra X-Ray Center

L2 Processing Date : Jun 10 2012

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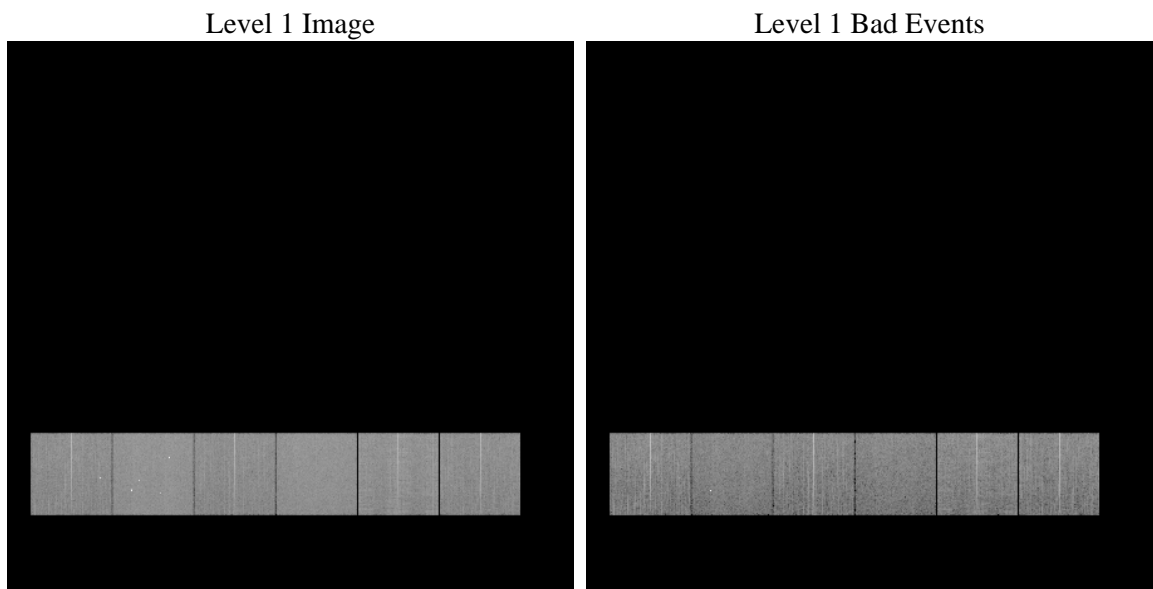
# 1 Front

seq_num	&#160	Sequence number
obs_id	56953	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	312.00743724241	Nominal RA [deg]
dec_nom	-41.973900297497	Nominal Dec [deg]
roll_nom	37.495212478214	Nominal Roll [deg]
revision	2	Processing version of data
ontime	8274.2387397885	Sum of GTIs [s]
livetime	8169.4653467169	Livetime [s]
ontime4	8274.1156197786	Sum of GTIs [s]
ontime5	8274.1976997852	Sum of GTIs [s]
ontime6	8274.1566597819	Sum of GTIs [s]
ontime7	8274.2387397885	Sum of GTIs [s]
ontime8	8274.0745797753	Sum of GTIs [s]
ontime9	8274.2797797918	Sum of GTIs [s]
l2events	512422	Number of level 2 events

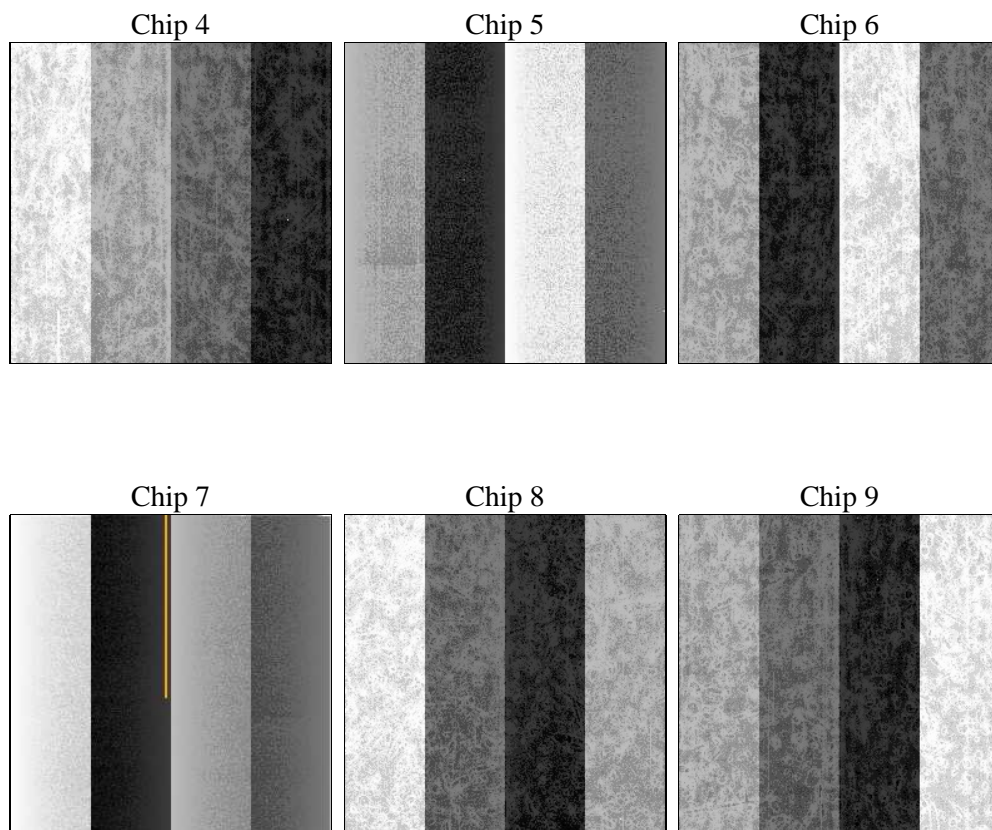
## 2 OBI

### 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	8.4.5	Processing system revision	ontime	8274.2387397885	Sum of GTIs [s]
caldsver	4.4.10	&#160	ontime4	8274.1156197786	Sum of GTIs [s]
date	2012-06-10T13:06:05	Date and time of file creation	ontime5	8274.1976997852	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	8274.1566597819	Sum of GTIs [s]
			ontime7	8274.2387397885	Sum of GTIs [s]
			ontime8	8274.0745797753	Sum of GTIs [s]
			ontime9	8274.2797797918	Sum of GTIs [s]
			l1events	1056274	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	164113	197227	161472	187720	184600	161142	grade 0 events	42418	19576	41640	21378	46399	40930
rejected events	88959	77184	81915	71603	89619	84555		25%	9%	25%	11%	25%	25%
rejected %	54%	39%	50%	38%	48%	52%	grade 1 events	459	1005	273	173	341	327
								0%	0%	0%	0%	0%	0%
							grade 2 events	12384	41504	14282	25149	18005	13242
								7%	21%	8%	13%	9%	8%
							grade 3 events	5203	5632	5114	10809	7081	5391
								3%	2%	3%	5%	3%	3%
							grade 4 events	5229	5599	5284	10834	6906	5198
								3%	2%	3%	5%	3%	3%
							grade 5 events	4365	10806	4622	11927	6131	5124
								2%	5%	2%	6%	3%	3%
							grade 6 events	9920	47732	13237	47947	16590	11826
								6%	24%	8%	25%	8%	7%
							grade 7 events	84135	65373	77020	59503	83147	79104
								51%	33%	47%	31%	45%	49%

## 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	312.0074372424083	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	-41.9739002974972	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	37.49521247821416	[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	250.466033080201			
[mm] SIM translation stage offset	0	-0.01005468664627074			
[s] Observation start time (MET)	364168760.668992	364168759.64397			
Observation start date	2009-07-16T21:59:21	2009-07-16T21:59:19			
[s] Observation end time (MET)	364198128.970463	364198127.94544			
Observation end date	2009-07-17T06:08:49	2009-07-17T06:08:47			
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)	2012.06.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.2742387397885

### A.2 Comments