

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 60393 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Nov 10 2012

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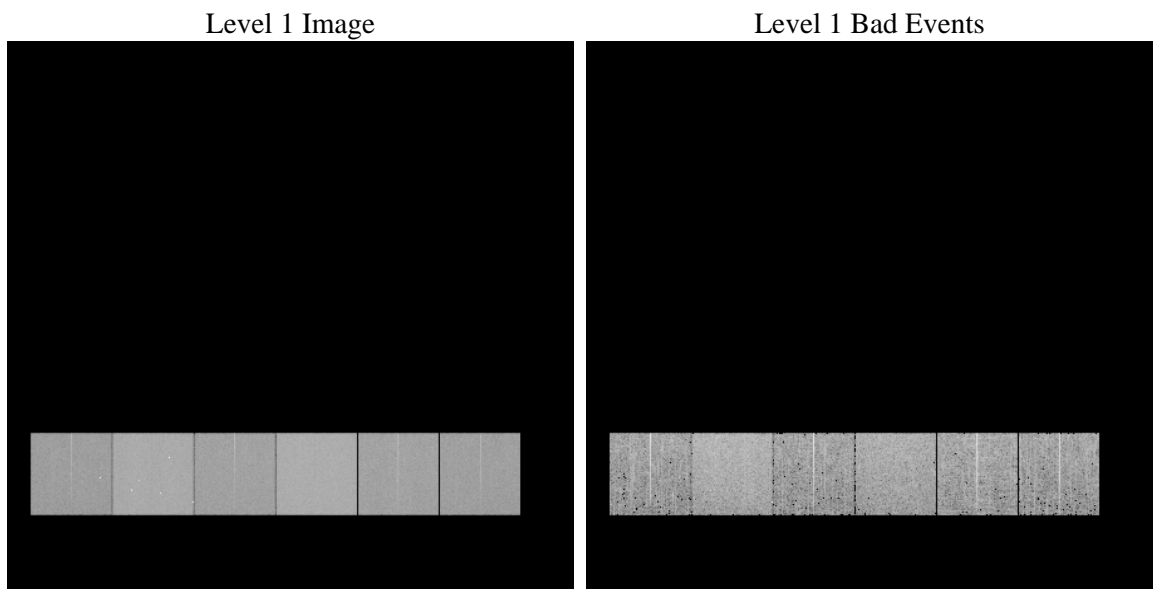
# 1 Front

seq_num	&#160	Sequence number
obs_id	60393	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	250.90423588646	Nominal RA [deg]
dec_nom	57.328524552272	Nominal Dec [deg]
roll_nom	52.569650515894	Nominal Roll [deg]
revision	3	Processing version of data
ontime	8463.9999684691	Sum of GTIs [s]
livetime	8356.8237044595	Livetime [s]
ontime4	5210.0681544244	Sum of GTIs [s]
ontime5	8463.9999684691	Sum of GTIs [s]
ontime6	5657.4384613931	Sum of GTIs [s]
ontime7	8463.9999684691	Sum of GTIs [s]
ontime8	5715.6597234905	Sum of GTIs [s]
ontime9	5388.3154583275	Sum of GTIs [s]
l2events	1237295	Number of level 2 events

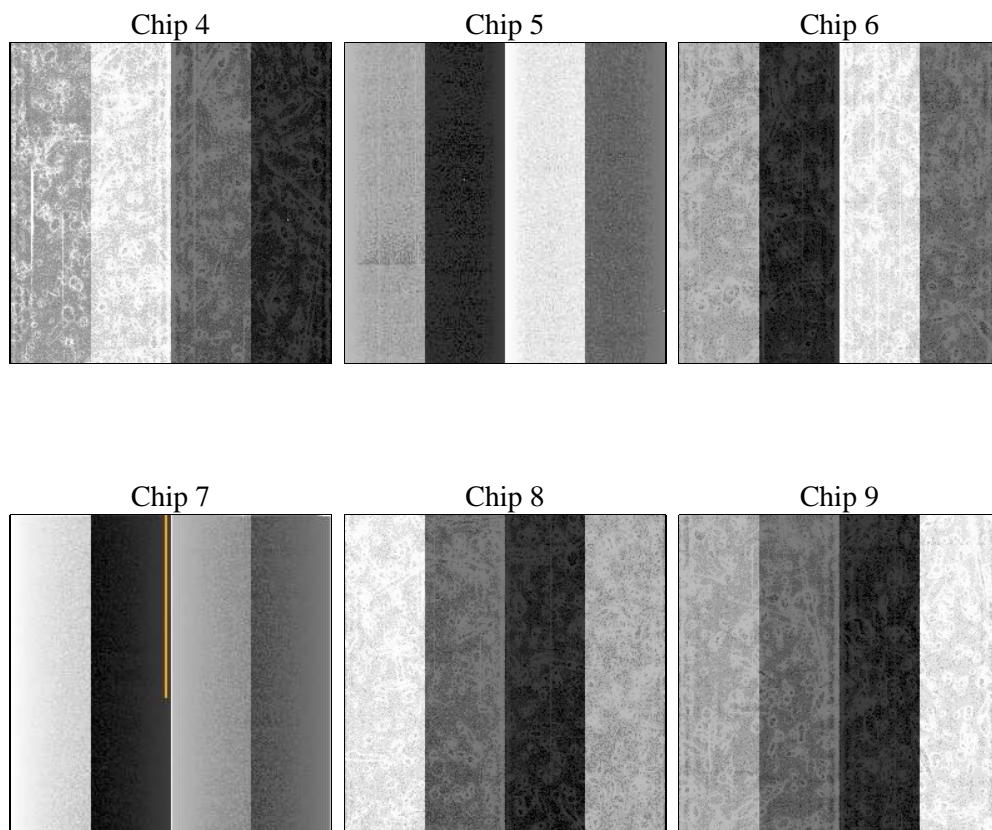
## 2 OBI

### 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	8463.9999684691	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime4	5210.0681544244	Sum of GTIs [s]
date	2012-11-11T00:46:39	Date and time of file creation	ontime5	8463.9999684691	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	5657.4384613931	Sum of GTIs [s]
			ontime7	8463.9999684691	Sum of GTIs [s]
			ontime8	5715.6597234905	Sum of GTIs [s]
			ontime9	5388.3154583275	Sum of GTIs [s]
			l1events	1535529	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	202827	314357	229673	337256	238133	213283	grade 0 events	99039	62333	106931	73472	109935	99333
rejected events	33330	49364	33167	40821	37974	33488		48%	19%	46%	21%	46%	46%
rejected %	16%	15%	14%	12%	15%	15%	grade 1 events	637	304	493	174	532	501
								0%	0%	0%	0%	0%	0%
							grade 2 events	26841	94579	34056	65090	35069	30839
								13%	30%	14%	19%	14%	14%
							grade 3 events	11198	16344	12338	30111	12777	11390
								5%	5%	5%	8%	5%	5%
							grade 4 events	11048	16061	12263	29348	12986	11506
								5%	5%	5%	8%	5%	5%
							grade 5 events	2166	8699	2400	7564	2895	2416
								1%	2%	1%	2%	1%	1%
							grade 6 events	21371	75676	30918	98414	29392	26727
								10%	24%	13%	29%	12%	12%
							grade 7 events	30527	40361	30274	33083	34547	30571
								15%	12%	13%	9%	14%	14%

## 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	On-chip summing requested	N	N
Observation mode	SECONDARY	SECONDARY	Subarray requested	NONE	NONE
[deg] Pointing RA	0	250.9042358864594	Alternating exposures requested	N	N
[deg] Pointing Dec	0	57.3285245522721	[s] Primary exposure time	0.000000	3.2
[deg] Pointing Roll	0.0	52.56965051589439			
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.8505141146731063			
[mm] SIM translation stage pos	-190.132523	250.466033080201			
[mm] SIM translation stage offset	0	-0.01005468664627074			
[s] Observation start time (MET)	191479615.080032	191479614.05532			
Observation start date	2004-01-26T04:46:55	2004-01-26T04:46:54			
[s] Observation end time (MET)	191502085.131013	191502084.1063			
Observation end date	2004-01-26T11:01:25	2004-01-26T11:01:24			
Read mode	TIMED	TIMED			

## **2.3 Star Slots**

## **2.4 FID Slots**

## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.12.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.4639999684691

### A.2 Comments