

# V&V Reference Report

## L2 ASCDS Version : 8.5.1.1

Observation 59723 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Dec 21 2012

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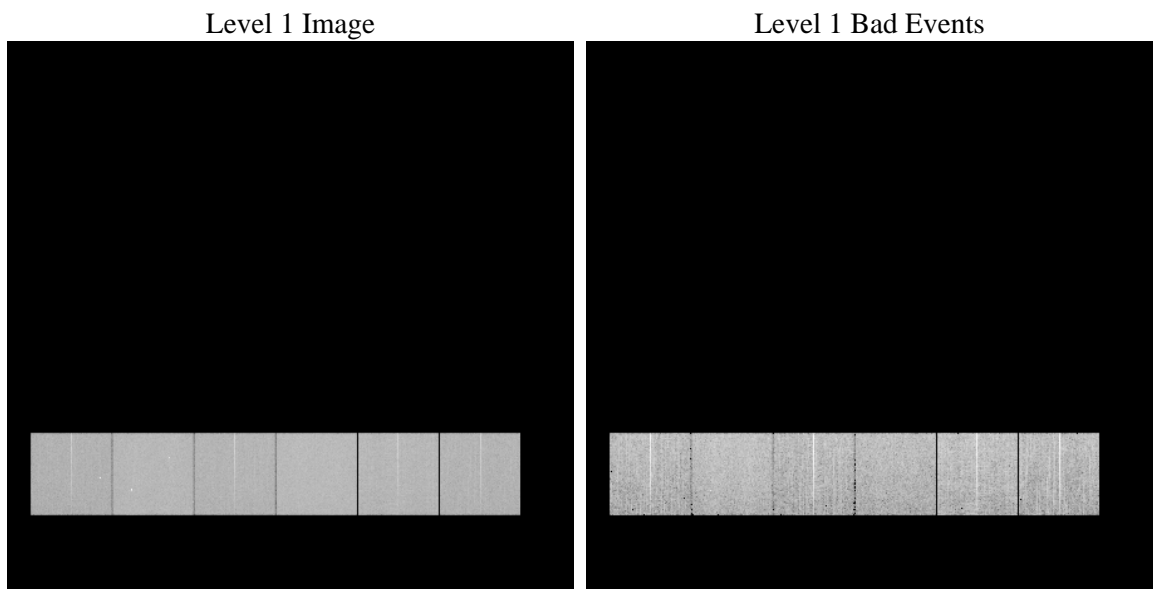
# 1 Front

seq_num	&#160	Sequence number
obs_id	59723	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	188.97259108226	Nominal RA [deg]
dec_nom	12.989704749753	Nominal Dec [deg]
roll_nom	168.19885457006	Nominal Roll [deg]
revision	3	Processing version of data
ontime	8275.1999691725	Sum of GTIs [s]
livetime	8170.4144044356	Livetime [s]
ontime4	6706.567676425	Sum of GTIs [s]
ontime5	8275.1999691725	Sum of GTIs [s]
ontime6	7208.918792069	Sum of GTIs [s]
ontime7	8275.1999691725	Sum of GTIs [s]
ontime8	7448.7507956624	Sum of GTIs [s]
ontime9	7056.5929386318	Sum of GTIs [s]
l2events	1090282	Number of level 2 events

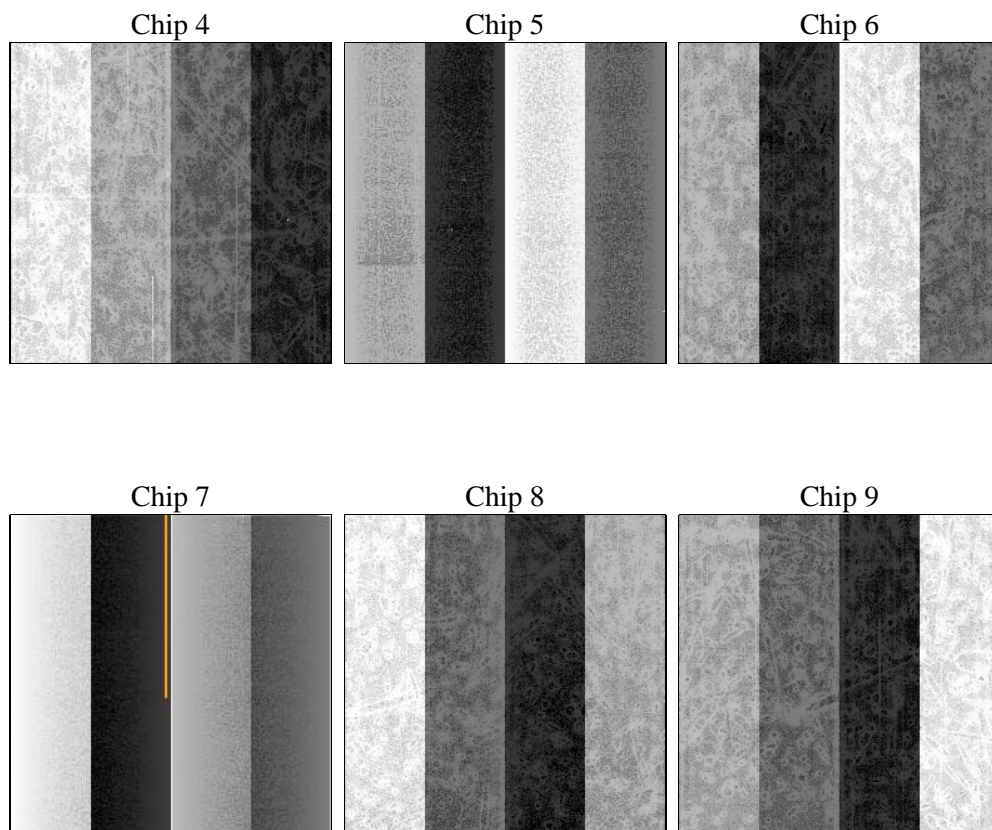
## 2 OBI

### 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	8.5.1.1	Processing system revision	ontime	8275.1999691725	Sum of GTIs [s]
caldsver	4.5.5	&#160	ontime4	6706.567676425	Sum of GTIs [s]
date	2012-12-21T07:49:12	Date and time of file creation	ontime5	8275.1999691725	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	7208.918792069	Sum of GTIs [s]
			ontime7	8275.1999691725	Sum of GTIs [s]
			ontime8	7448.7507956624	Sum of GTIs [s]
			ontime9	7056.5929386318	Sum of GTIs [s]
			l1events	1491218	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	214903	264197	239389	279936	261810	230983	grade 0 events	93786	41676	100892	54701	108163	96948
rejected events	53423	58471	53387	50484	62063	54941		43%	15%	42%	19%	41%	41%
rejected %	24%	22%	22%	18%	23%	23%	grade 1 events	749	221	557	174	614	578
								0%	0%	0%	0%	0%	0%
							grade 2 events	25481	76285	32299	50322	35134	30017
								11%	28%	13%	17%	13%	12%
							grade 3 events	10753	11545	11556	22792	12887	11238
								5%	4%	4%	8%	4%	4%
							grade 4 events	10741	11313	11531	22592	13053	11331
								4%	4%	4%	8%	4%	4%
							grade 5 events	3172	8982	3456	8966	4466	3751
								1%	3%	1%	3%	1%	1%
							grade 6 events	20719	64907	29724	79045	30510	26508
								9%	24%	12%	28%	11%	11%
							grade 7 events	49502	49268	49374	41344	56983	50612
								23%	18%	20%	14%	21%	21%

## 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	188.9725910822589	Alternating exposures requested	N	N
[deg] Pointing Dec	0	12.98970474975292	[s] Primary exposure time	3.2	3.2
[deg] Pointing Roll	0.0	168.1988545700595			
[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)	228262047.168873	228262046.14386			
Observation start date	2005-03-26T22:07:27	2005-03-26T22:07:26			
[s] Observation end time (MET)	228285628.319945	228285627.29493			
Observation end date	2005-03-27T04:40:28	2005-03-27T04:40:27			
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)	2013.01.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.2751999691725

### **A.2 Comments**