

# V&V Reference Report

## L2 ASCDS Version : 8.5.1.1

Observation 59663 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Dec 23 2012

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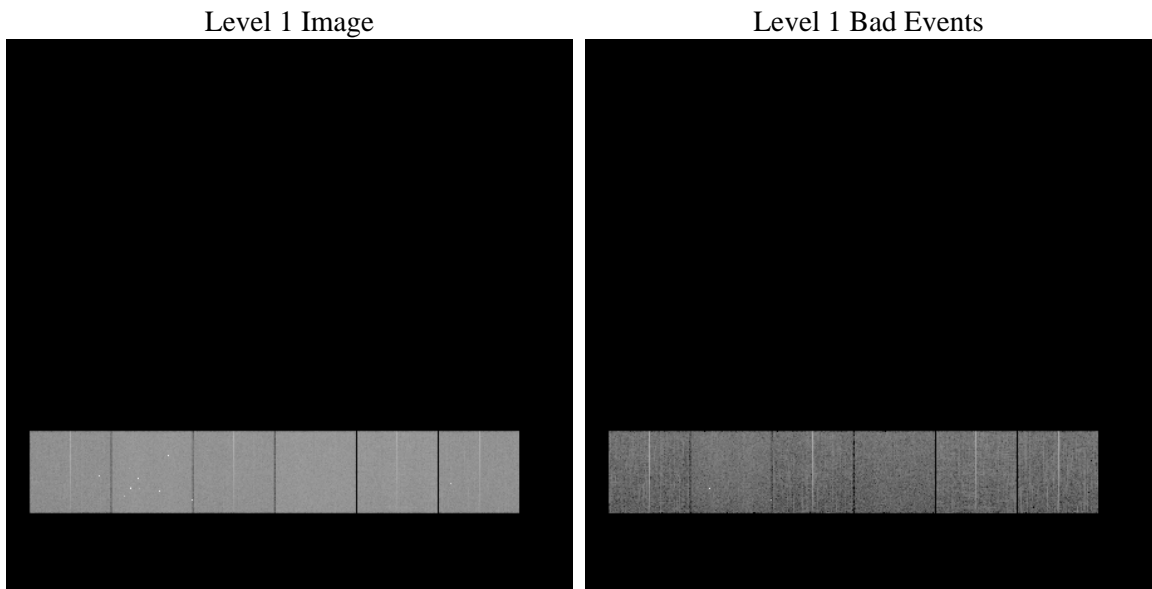
# 1 Front

seq_num	&#160	Sequence number
obs_id	59663	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	211.99269194782	Nominal RA [deg]
dec_nom	2.5714323229449	Nominal Dec [deg]
roll_nom	216.84273118411	Nominal Roll [deg]
revision	3	Processing version of data
ontime	8275.1999691725	Sum of GTIs [s]
livetime	8170.4144044356	Livetime [s]
ontime4	6873.3991782367	Sum of GTIs [s]
ontime5	8275.1999691725	Sum of GTIs [s]
ontime6	7448.7510234416	Sum of GTIs [s]
ontime7	8275.1999691725	Sum of GTIs [s]
ontime8	7756.6438017488	Sum of GTIs [s]
ontime9	7264.0152970254	Sum of GTIs [s]
l2events	1082214	Number of level 2 events

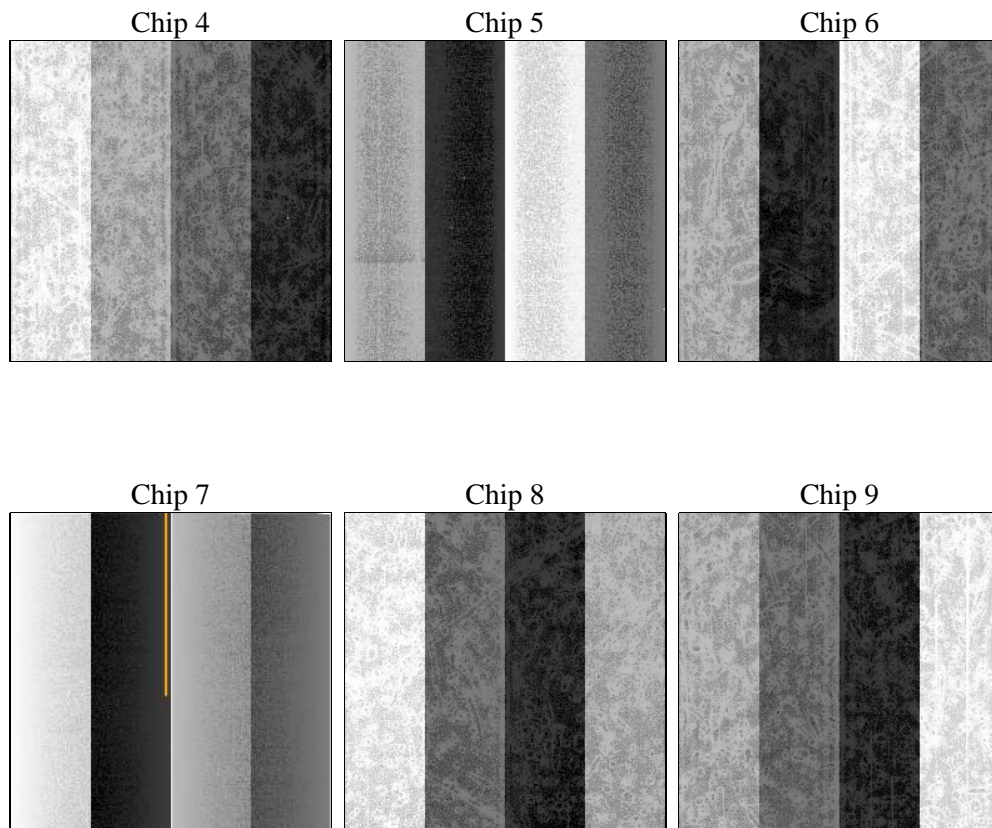
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	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	6873.3991782367	Sum of GTIs [s]
date	2012-12-23T08:34:16	Date and time of file creation	ontime5	8275.1999691725	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	7448.7510234416	Sum of GTIs [s]
			ontime7	8275.1999691725	Sum of GTIs [s]
			ontime8	7756.6438017488	Sum of GTIs [s]
			ontime9	7264.0152970254	Sum of GTIs [s]
			l1events	1489765	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	216052	267511	240168	270425	263345	232264	grade 0 events	96277	43115	101954	52447	110434	98565
rejected events	53184	60401	52219	48362	60087	54206		44%	16%	42%	19%	41%	42%
rejected %	24%	22%	21%	17%	22%	23%	grade 1 events	746	198	485	157	551	563
								0%	0%	0%	0%	0%	0%
							grade 2 events	24167	78362	32760	49149	35555	29716
								11%	29%	13%	18%	13%	12%
							grade 3 events	10906	9999	11360	21720	13169	11376
								5%	3%	4%	8%	5%	4%
							grade 4 events	10798	9454	11424	21621	12961	11493
								4%	3%	4%	7%	4%	4%
							grade 5 events	2872	9243	3324	8357	4060	3551
								1%	3%	1%	3%	1%	1%
							grade 6 events	20720	66180	30451	77126	31139	26908
								9%	24%	12%	28%	11%	11%
							grade 7 events	49566	50960	48410	39848	55476	50092
								22%	19%	20%	14%	21%	21%

## 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	211.9926919478151
[deg] Pointing Dec	0	2.571432322944872
[deg] Pointing Roll	0.0	216.842731184111
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.8505141146731063
[mm] SIM translation stage pos	-190.132523	250.4635187648994
[mm] SIM translation stage offset	0	-0.007540371344731511
[s] Observation start time (MET)	232151465.195719	232151464.1707
Observation start date	2005-05-10T22:31:05	2005-05-10T22:31:04
[s] Observation end time (MET)	232170647.046593	232170646.02157
Observation end date	2005-05-11T03:50:47	2005-05-11T03:50:46
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
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)	2013.01.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.2751999691725

### A.2 Comments