

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 60459 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Nov 8 2012

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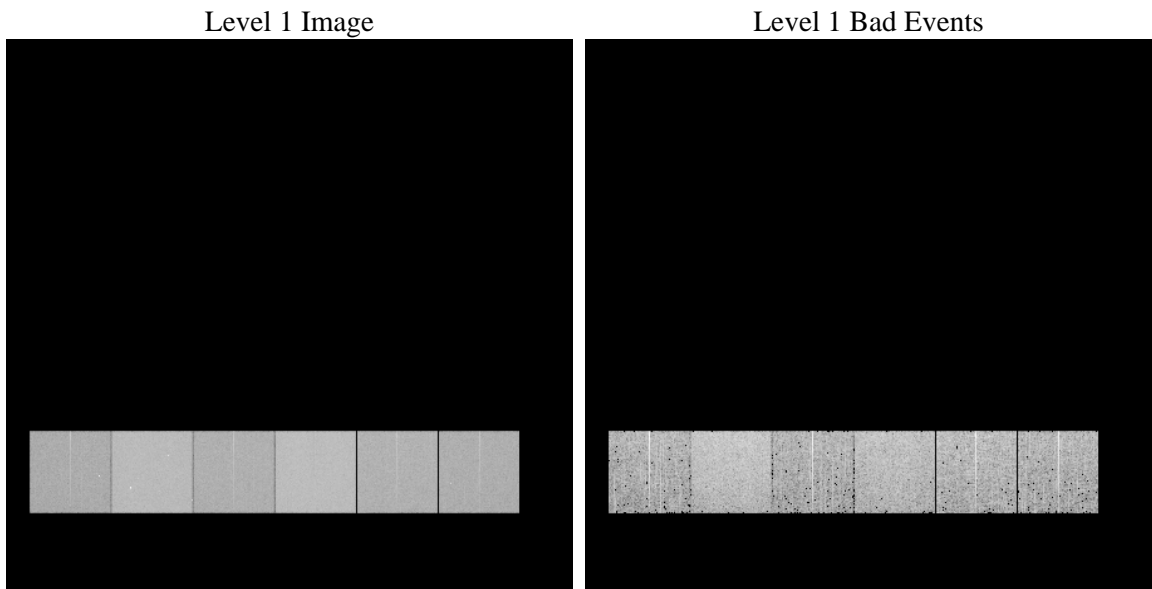
# 1 Front

seq_num	&#160	Sequence number
obs_id	60459	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	133.1982803209	Nominal RA [deg]
dec_nom	-6.6713857826286	Nominal Dec [deg]
roll_nom	60.523343046454	Nominal Roll [deg]
revision	3	Processing version of data
ontime	7800.8763805926	Sum of GTIs [s]
livetime	7702.0969867377	Livetime [s]
ontime4	4527.3706128895	Sum of GTIs [s]
ontime5	7800.8353405893	Sum of GTIs [s]
ontime6	4922.8113292158	Sum of GTIs [s]
ontime7	7800.8763805926	Sum of GTIs [s]
ontime8	5098.1230053008	Sum of GTIs [s]
ontime9	4793.4701373279	Sum of GTIs [s]
l2events	1149147	Number of level 2 events

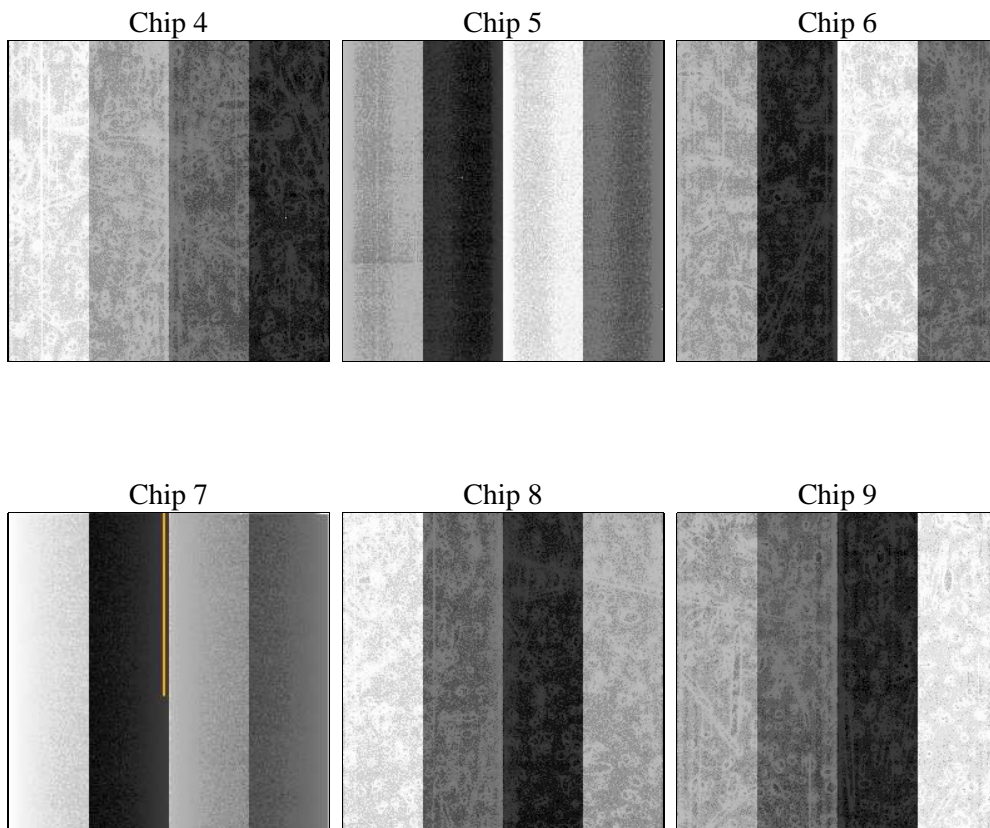
## 2 OBI

### 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	8.4.5	Processing system revision	ontime	7800.8763805926	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime4	4527.3706128895	Sum of GTIs [s]
date	2012-11-08T16:26:03	Date and time of file creation	ontime5	7800.8353405893	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	4922.8113292158	Sum of GTIs [s]
			ontime7	7800.8763805926	Sum of GTIs [s]
			ontime8	5098.1230053008	Sum of GTIs [s]
			ontime9	4793.4701373279	Sum of GTIs [s]
			l1events	1416277	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	180042	295722	205516	320851	219273	194873	grade 0 events	87863	59480	96957	70363	101219	91708
rejected events	29499	45443	28796	38186	34342	29320		48%	20%	47%	21%	46%	47%
rejected %	16%	15%	14%	11%	15%	15%	grade 1 events	559	175	395	191	473	427
								0%	0%	0%	0%	0%	0%
							grade 2 events	23965	88608	30397	62763	32333	28467
								13%	29%	14%	19%	14%	14%
							grade 3 events	10069	15868	11094	28339	12077	10636
								5%	5%	5%	8%	5%	5%
							grade 4 events	9817	15539	10903	28431	11920	10531
								5%	5%	5%	8%	5%	5%
							grade 5 events	1907	7707	2169	7104	2546	2254
								1%	2%	1%	2%	1%	1%
							grade 6 events	18829	70784	27369	92777	27382	24211
								10%	23%	13%	28%	12%	12%
							grade 7 events	27033	37561	26232	30883	31323	26639
								15%	12%	12%	9%	14%	13%

## 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	133.1982803209004
[deg] Pointing Dec	0	-6.671385782628595
[deg] Pointing Roll	0.0	60.52334304645386
[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)	187333545.24962	187333544.2249
Observation start date	2003-12-09T05:05:45	2003-12-09T05:05:44
[s] Observation end time (MET)	187346388.500177	187346387.47545
Observation end date	2003-12-09T08:39:49	2003-12-09T08:39:47
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	0.000000	3.2

## 2.3 Star Slots

## 2.4 FID Slots

## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.12.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.8008763805926

### A.2 Comments