

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 61327 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Oct 1 2012

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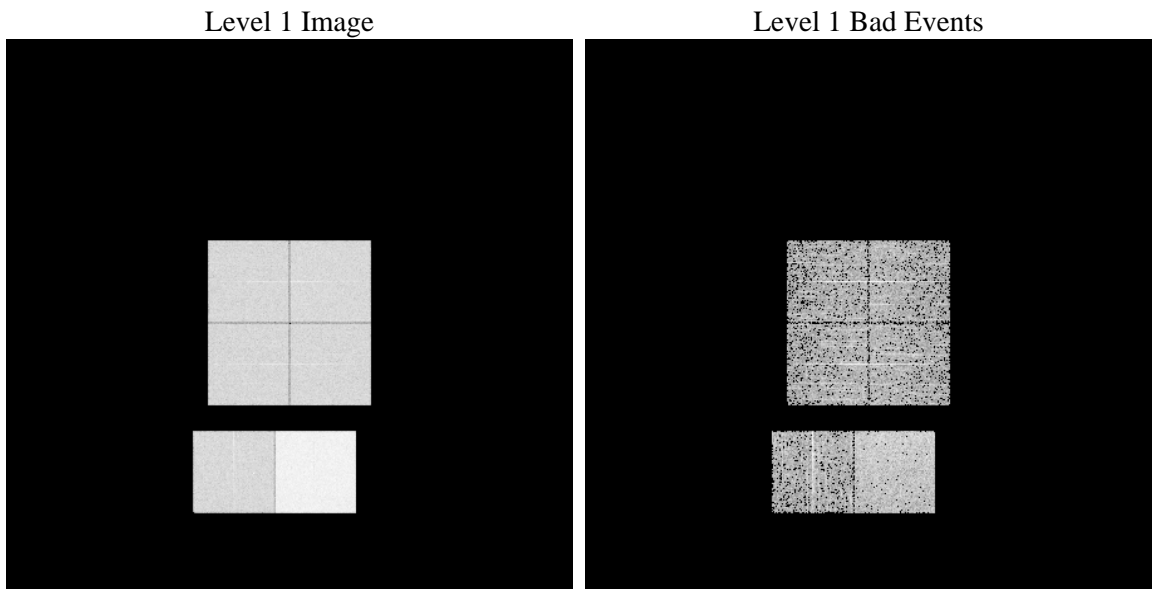
# 1 Front

seq_num	&#160	Sequence number
obs_id	61327	Observation id
title	ACIS-012367 diagnostics	Proposal title
observer	CHANDRA engineering request/realtime commanding	Principal investig
object	&#160	Source name
dtcycle	0	&#160
cycle	P	events are from which exps? P[rimary] S[econdar
ra_targ	0.0	Observer's specified target RA [deg]
dec_targ	0.0	Observer's specified target Dec [deg]
ra_nom	134.95116952739	Nominal RA [deg]
dec_nom	59.985006549199	Nominal Dec [deg]
roll_nom	178.85193333333	Nominal Roll [deg]
revision	3	Processing version of data
ontime	4562.0646615624	Sum of GTIs [s]
livetime	4515.7332385351	Livetime [s]
ontime0	1850.6909793466	Sum of GTIs [s]
ontime1	1947.6348994225	Sum of GTIs [s]
ontime2	1794.0343392938	Sum of GTIs [s]
ontime3	1818.2395393252	Sum of GTIs [s]
ontime6	1842.4036993384	Sum of GTIs [s]
ontime7	4562.0646615624	Sum of GTIs [s]
l2events	729638	Number of level 2 events

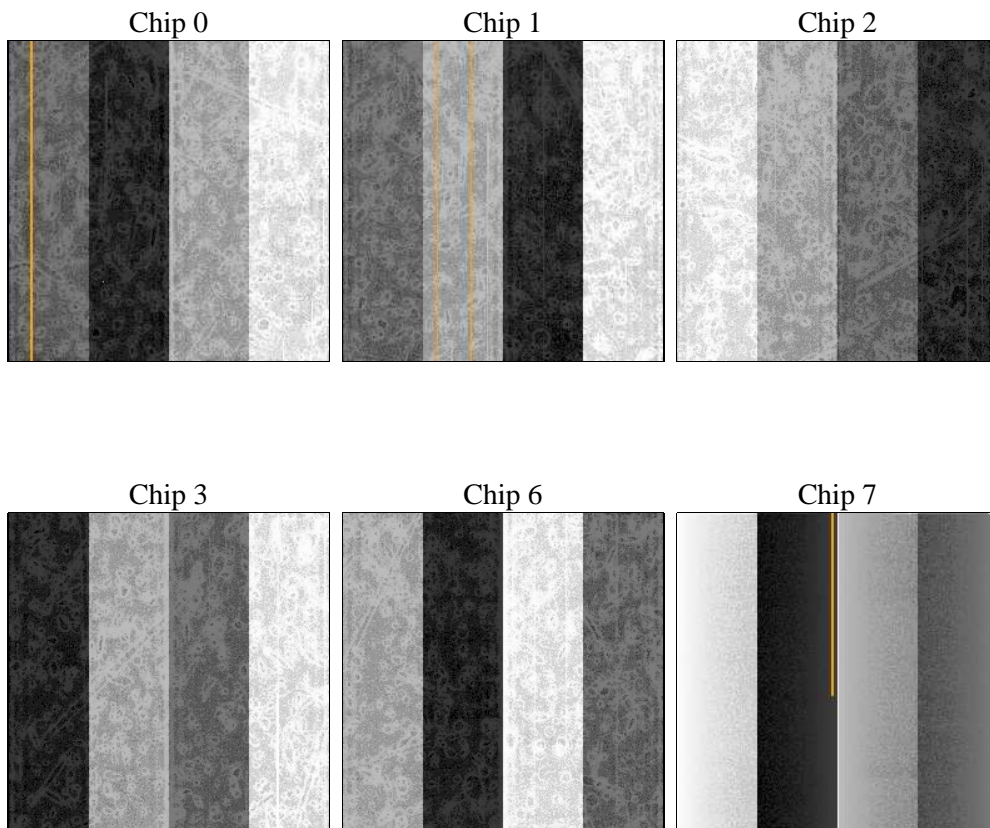
## 2 OBI Primary

### 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	4562.0646615624	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime0	1850.6909793466	Sum of GTIs [s]
date	2012-10-01T12:09:27	Date and time of file creation	ontime1	1947.6348994225	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	1794.0343392938	Sum of GTIs [s]
			ontime3	1818.2395393252	Sum of GTIs [s]
			ontime6	1842.4036993384	Sum of GTIs [s]
			ontime7	4562.0646615624	Sum of GTIs [s]
			l1events	849470	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	111680	117341	111230	112698	117616	278905	grade 0 events	54703	57830	54257	55626	56650	65804
rejected events	12359	12930	13492	13495	13587	23176		48%	49%	48%	49%	48%	23%
rejected %	11%	11%	12%	11%	11%	8%	grade 1 events	330	348	306	291	308	170
								0%	0%	0%	0%	0%	0%
							grade 2 events	17840	18590	17245	17597	17962	57304
								15%	15%	15%	15%	15%	20%
							grade 3 events	6412	6697	6297	6358	6532	26149
								5%	5%	5%	5%	5%	9%
							grade 4 events	6304	6490	6227	6330	6467	26056
								5%	5%	5%	5%	5%	9%
							grade 5 events	897	968	891	973	1040	4673
								0%	0%	0%	0%	0%	1%
							grade 6 events	14497	15447	13915	13951	16630	81736
								12%	13%	12%	12%	14%	29%
							grade 7 events	10697	10971	12092	11572	12027	17013
								9%	9%	10%	10%	10%	6%

## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-012367	ACIS-012367
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	SECONDARY	SECONDARY
[deg] Pointing RA	0	134.9511695273904
[deg] Pointing Dec	0	59.98500654919923
[deg] Pointing Roll	0.0	178.8519333333281
[mm] SIM focus pos	-0.782348	-0.7809083437167272
[mm] SIM defocus	0	0.7524282956875696
[mm] SIM translation stage pos	-233.592463	250.466033080201
[mm] SIM translation stage offset	0	-0.01005468664627074
[s] Observation start time (MET)	128883653.499579	128883652.7311
Observation start date	2002-01-31T17:00:53	2002-01-31T17:00:52
[s] Observation end time (MET)	128902425.350336	128902424.58186
Observation end date	2002-01-31T22:13:45	2002-01-31T22:13:44
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	Y	Y
[s] Primary exposure time	4	4
[s] Secondary exposure time	3.2	3.2
Duty cycle	1	1

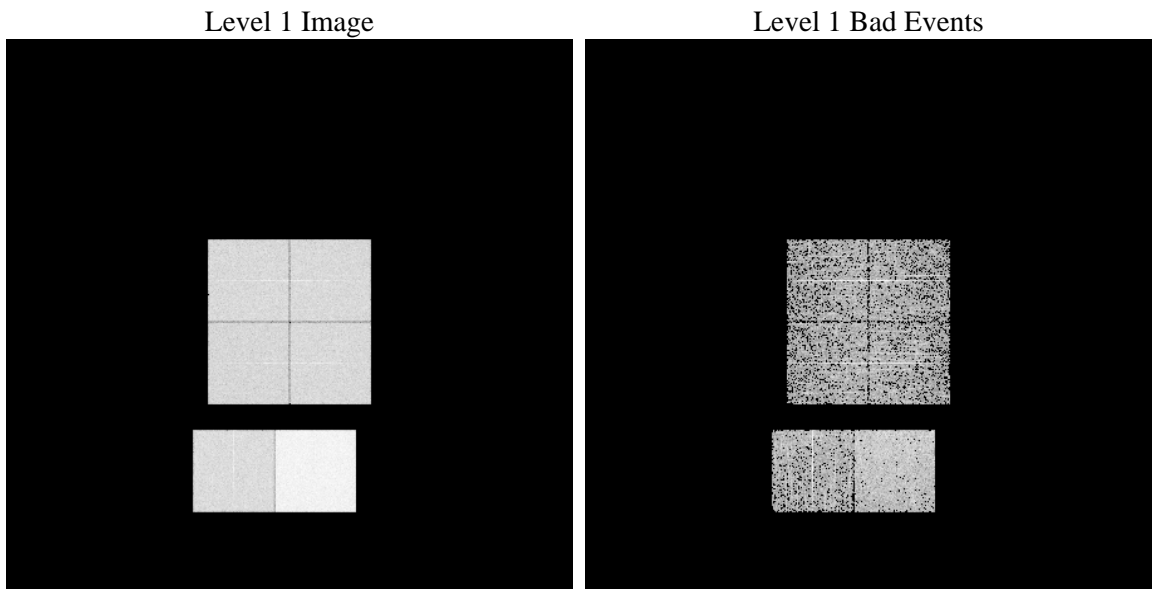
## 2.3 Star Slots

## 2.4 FID Slots

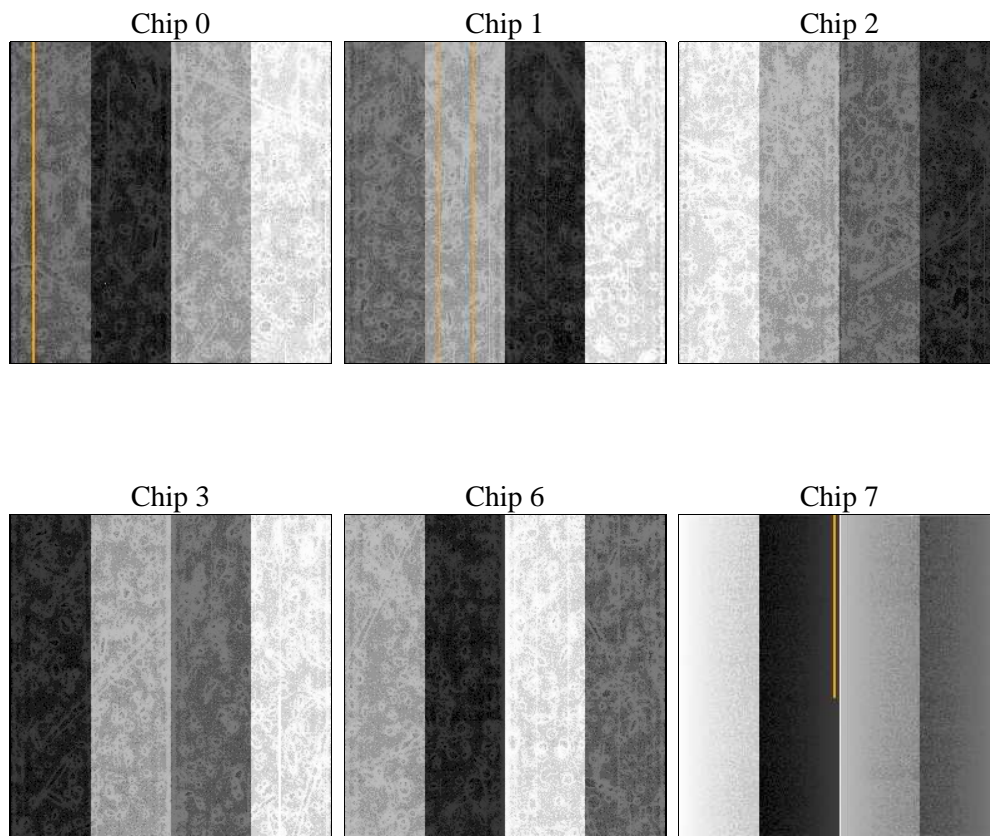
# 3 OBI Secondary

## 3.1 OBI

### 3.1.1 Images



### 3.1.2 Bias



### 3.1.3 Parameters

obi_num	1	Obi number		
ascdsver	8.4.5	Processing system revision	sched_exp_time	0.0
caldbver	4.5.2	&#160	ontime	3658.0331412107
date	2012-10-01T12:08:44	Date and time of file creation	ontime0	1496.0953069627
revision	3	Processing version of data	ontime1	1503.8425559998
			ontime2	1366.5357873142
			ontime3	1458.4679961205
			ontime6	1568.6633558273
			ontime7	3658.0331412107
			l1events	687094

### 3.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	91695	91188	85410	91215	101457	226129
rejected events	10509	10211	10596	11195	12622	20161
rejected %	11%	11%	12%	12%	12%	8%

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	44933	44848	41677	44867	48579	52888
	49%	49%	48%	49%	47%	23%
grade 1 events	225	208	248	207	255	155
	0%	0%	0%	0%	0%	0%
grade 2 events	14517	14171	13437	14036	15430	46128
	15%	15%	15%	15%	15%	20%
grade 3 events	5132	5183	4751	5062	5574	21042
	5%	5%	5%	5%	5%	9%
grade 4 events	5236	5224	4804	5227	5560	20955
	5%	5%	5%	5%	5%	9%
grade 5 events	712	740	667	762	861	3788
	0%	0%	0%	0%	0%	1%
grade 6 events	11934	11892	10848	11158	14427	66229
	13%	13%	12%	12%	14%	29%
grade 7 events	9006	8922	8978	9896	10771	14944
	9%	9%	10%	10%	10%	6%



## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.10.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.2200978027731

### A.2 Comments