

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 60868 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Oct 21 2012

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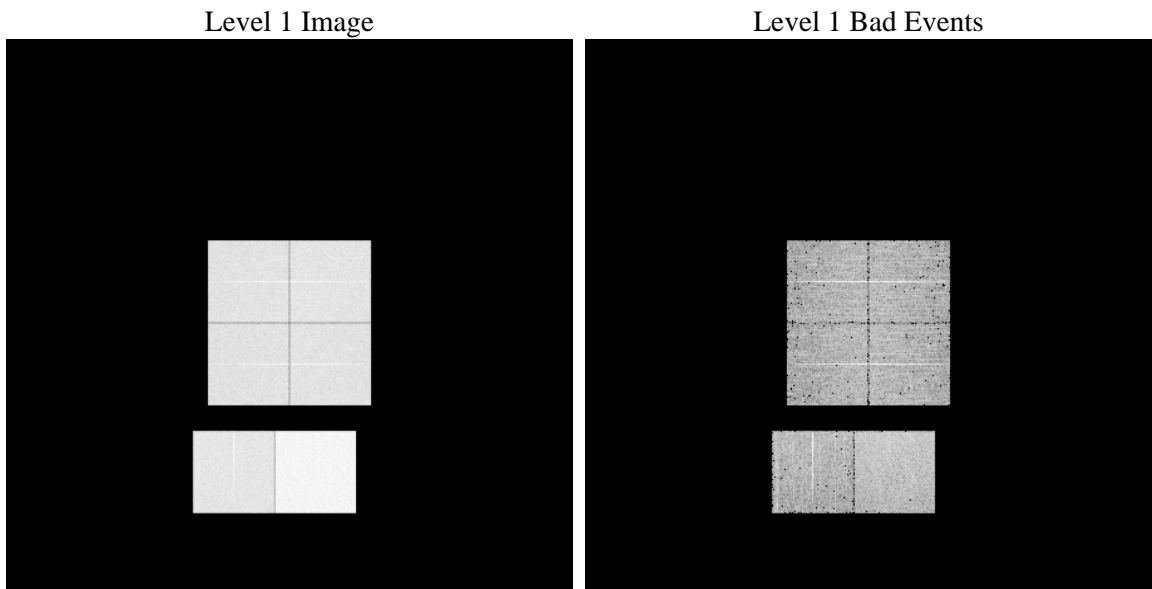
# 1 Front

seq_num	&#160	Sequence number
obs_id	60868	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 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	38.722444666741	Nominal RA [deg]
dec_nom	6.982087183926	Nominal Dec [deg]
roll_nom	288.31899001868	Nominal Roll [deg]
revision	3	Processing version of data
ontime	8467.1999684572	Sum of GTIs [s]
livetime	8359.9831841209	Livetime [s]
ontime0	4532.6638368368	Sum of GTIs [s]
ontime1	4676.5689533353	Sum of GTIs [s]
ontime2	4365.4744686782	Sum of GTIs [s]
ontime3	4419.2283839583	Sum of GTIs [s]
ontime6	4796.566175431	Sum of GTIs [s]
ontime7	8467.1999684572	Sum of GTIs [s]
l2events	1294978	Number of level 2 events

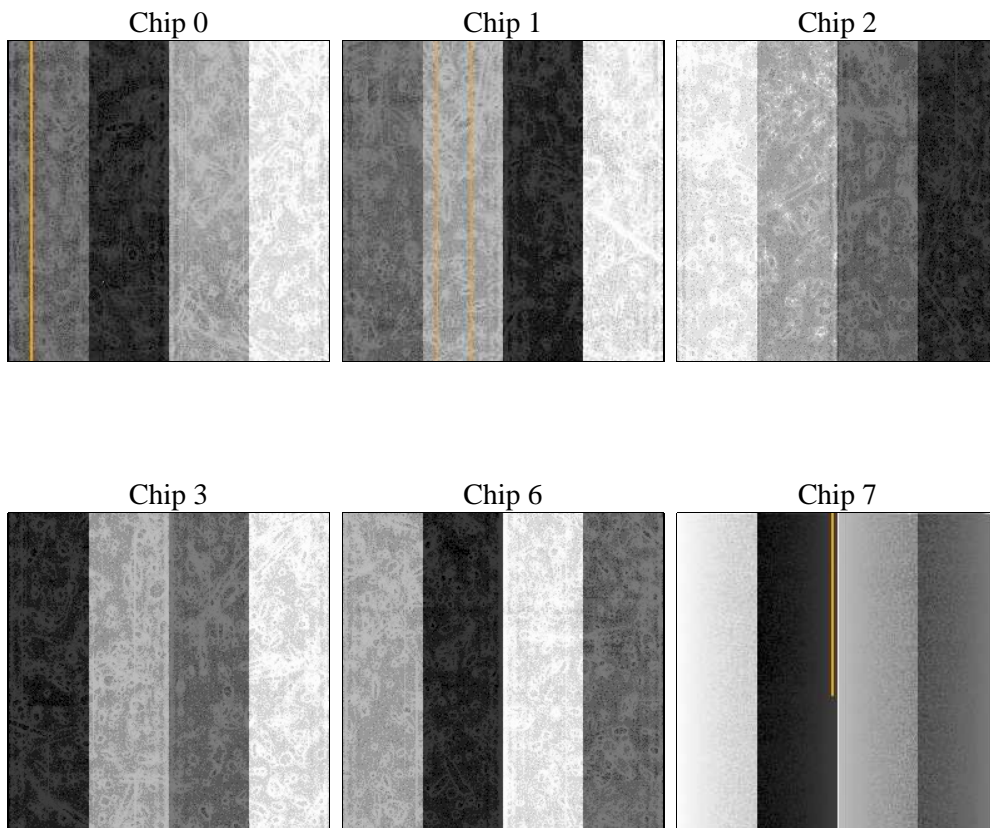
## 2 OBI

### 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	8467.1999684572	Sum of GTIs [s]
caldbver	4.5.2	&#160	ontime0	4532.6638368368	Sum of GTIs [s]
date	2012-10-21T10:41:44	Date and time of file creation	ontime1	4676.5689533353	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	4365.4744686782	Sum of GTIs [s]
			ontime3	4419.2283839583	Sum of GTIs [s]
			ontime6	4796.566175431	Sum of GTIs [s]
			ontime7	8467.1999684572	Sum of GTIs [s]
			l1events	1546914	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	220356	227906	215292	219598	244123	419639	grade 0 events	105630	108972	105357	106118	115638	94705
rejected events	29078	30247	28388	30848	31462	43243		47%	47%	48%	48%	47%	22%
rejected %	13%	13%	13%	14%	12%	10%	grade 1 events	557	520	592	628	550	247
								0%	0%	0%	0%	0%	0%
							grade 2 events	33556	34722	31583	32172	36766	82833
								15%	15%	14%	14%	15%	19%
							grade 3 events	12463	12506	12240	12416	13250	38142
								5%	5%	5%	5%	5%	9%
							grade 4 events	12427	12468	12074	12209	13272	37884
								5%	5%	5%	5%	5%	9%
							grade 5 events	2038	2094	1875	2109	2371	8563
								0%	0%	0%	0%	0%	2%
							grade 6 events	27202	28991	25650	25835	33735	122832
								12%	12%	11%	11%	13%	29%
							grade 7 events	26483	27633	25921	28111	28541	34433
								12%	12%	12%	12%	11%	8%

## 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	38.72244466674056
[deg] Pointing Dec	0	6.98208718392604
[deg] Pointing Roll	0.0	288.3189900186756
[mm] SIM focus pos	-0.782348	-0.6828225247311905
[mm] SIM defocus	0	0.8505141146731063
[mm] SIM translation stage pos	-233.592463	250.466033080201
[mm] SIM translation stage offset	0	-0.01005468664627074
[s] Observation start time (MET)	160179071.89296	160179070.86825
Observation start date	2003-01-28T22:11:12	2003-01-28T22:11:10
[s] Observation end time (MET)	160202226.643931	160202225.61922
Observation end date	2003-01-29T04:37:07	2003-01-29T04:37:05
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	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.11.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.4671999684572

### A.2 Comments