

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 60721 - L2 Version 4  
Chandra X-Ray Center

L2 Processing Date : Oct 29 2012

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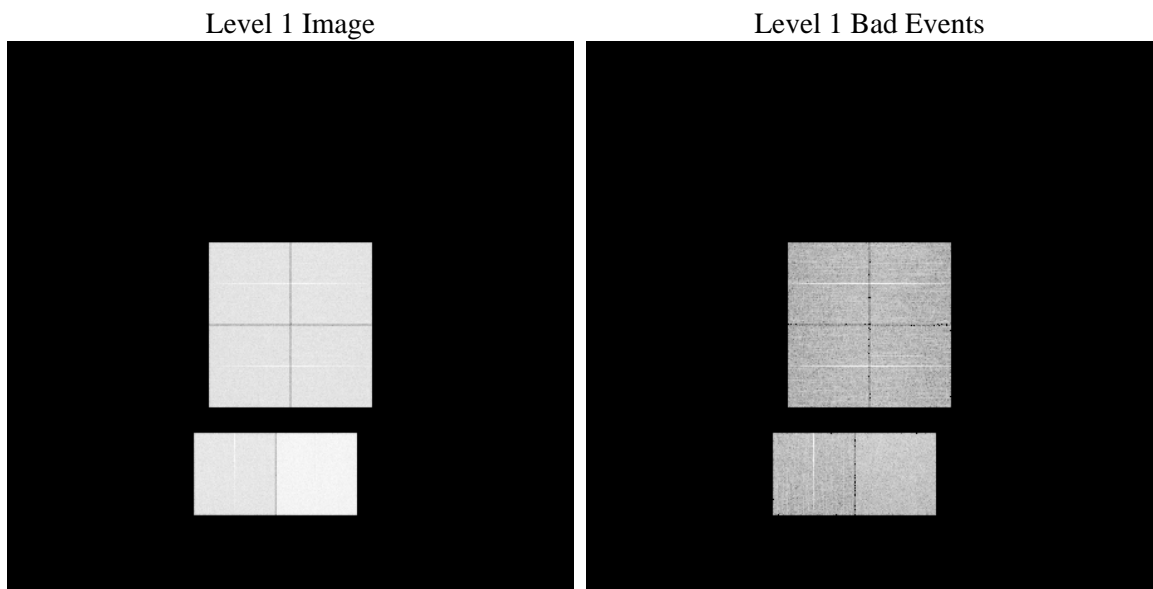
# 1 Front

seq_num	&#160	Sequence number
obs_id	60721	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	255.01621896637	Nominal RA [deg]
dec_nom	-53.373050948853	Nominal Dec [deg]
roll_nom	10.348630593946	Nominal Roll [deg]
revision	4	Processing version of data
ontime	11122.648327827	Sum of GTIs [s]
livetime	10981.806657446	Livetime [s]
ontime0	6310.2764144242	Sum of GTIs [s]
ontime1	6487.9745091796	Sum of GTIs [s]
ontime2	6063.3627878129	Sum of GTIs [s]
ontime3	6202.8895469606	Sum of GTIs [s]
ontime6	6592.2421430945	Sum of GTIs [s]
ontime7	11122.648327827	Sum of GTIs [s]
l2events	1686236	Number of level 2 events

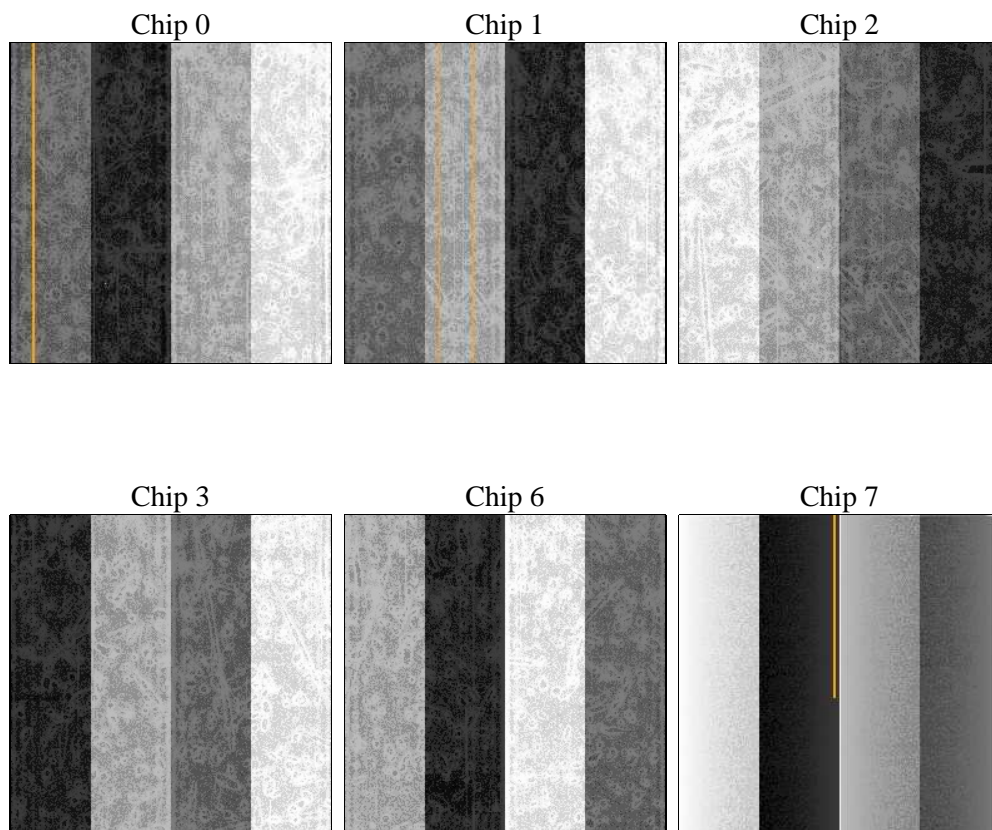
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	10200	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	11122.648327827	Sum of GTIs [s]
caldbver	4.5.2	&#160	ontime0	6310.2764144242	Sum of GTIs [s]
date	2012-10-29T05:43:49	Date and time of file creation	ontime1	6487.9745091796	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	6063.3627878129	Sum of GTIs [s]
			ontime3	6202.8895469606	Sum of GTIs [s]
			ontime6	6592.2421430945	Sum of GTIs [s]
			ontime7	11122.648327827	Sum of GTIs [s]
			l1events	2070055	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	300123	310110	291624	300646	329598	537954	grade 0 events	143240	147089	141088	145531	155075	121640
rejected events	46032	48766	45170	47311	50381	68052		47%	47%	48%	48%	47%	22%
rejected %	15%	15%	15%	15%	15%	12%	grade 1 events	784	643	772	764	752	364
								0%	0%	0%	0%	0%	0%
							grade 2 events	45639	47427	42725	44202	49358	106905
								15%	15%	14%	14%	14%	19%
							grade 3 events	16700	16845	16317	16577	17656	47928
								5%	5%	5%	5%	5%	8%
							grade 4 events	16489	16818	16226	16615	17507	47805
								5%	5%	5%	5%	5%	8%
							grade 5 events	2775	2824	2637	2851	3252	10641
								0%	0%	0%	0%	0%	1%
							grade 6 events	38315	39389	35818	36262	46178	158128
								12%	12%	12%	12%	14%	29%
							grade 7 events	36181	39075	36041	37844	39820	44543
								12%	12%	12%	12%	12%	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	255.0162189665688	255.016218966372
[deg] Pointing Dec	-53.37305094992924	-53.37305094885302
[deg] Pointing Roll	10.34863059399489	10.34863059394627
[mm] SIM focus pos	-0.78090834371673	-0.78090834371673
[mm] SIM defocus	0.7524282194390134	0.7524282194390134
[mm] SIM translation stage pos	250.4660330802	250.4660330802
[mm] SIM translation stage offset	-0.01005726120527584	-0.01005726120527584
[s] Observation start time (MET)	170871240.943965	170871240.943965
Observation start date	2003-06-01T16:44:00	2003-06-01T16:14:00
[s] Observation end time (MET)	170884180.924254	170884180.924254
Observation end date	2003-06-01T19:34:00	2003-06-01T19:49:40
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	OVERRIDE	OVERRIDE
Number of optional ACIS chips dropped	0	0
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)	2012.12.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	11.122648327827

### **A.2 Comments**