

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 61578 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Sep 20 2012

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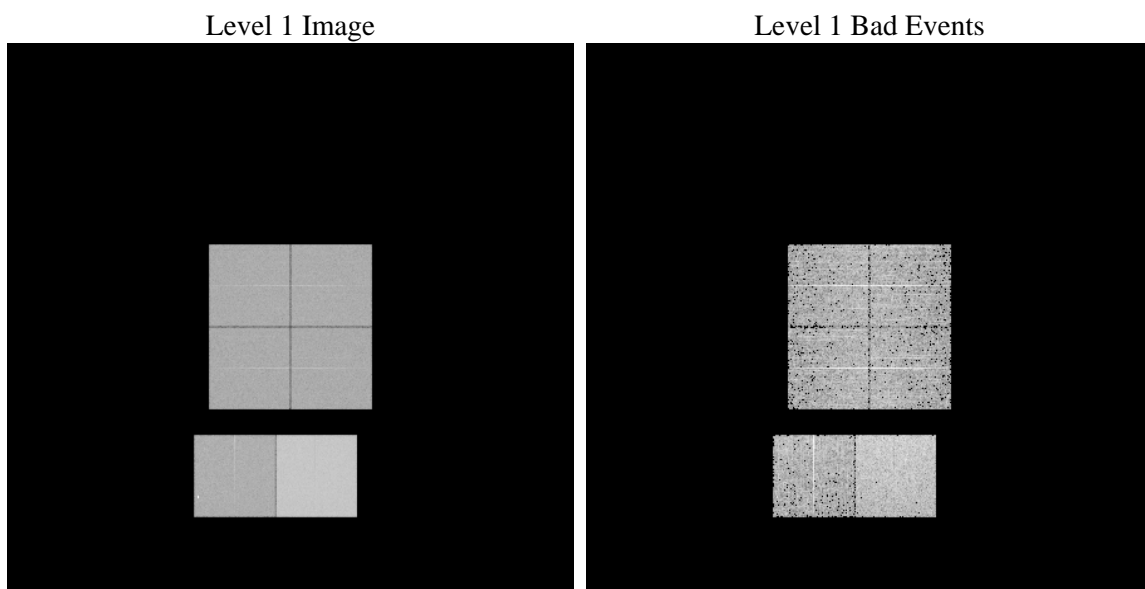
# 1 Front

seq_num	&#160	Sequence number
obs_id	61578	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	210.01300161078	Nominal RA [deg]
dec_nom	-29.276340749847	Nominal Dec [deg]
roll_nom	260.58423893971	Nominal Roll [deg]
revision	3	Processing version of data
ontime	6620.6288089007	Sum of GTIs [s]
livetime	6536.7944204584	Livetime [s]
ontime0	2644.6860716045	Sum of GTIs [s]
ontime1	2657.6501418948	Sum of GTIs [s]
ontime2	2518.2858209163	Sum of GTIs [s]
ontime3	2544.2140312195	Sum of GTIs [s]
ontime6	2766.9341653138	Sum of GTIs [s]
ontime7	6620.6288089007	Sum of GTIs [s]
l2events	1233815	Number of level 2 events

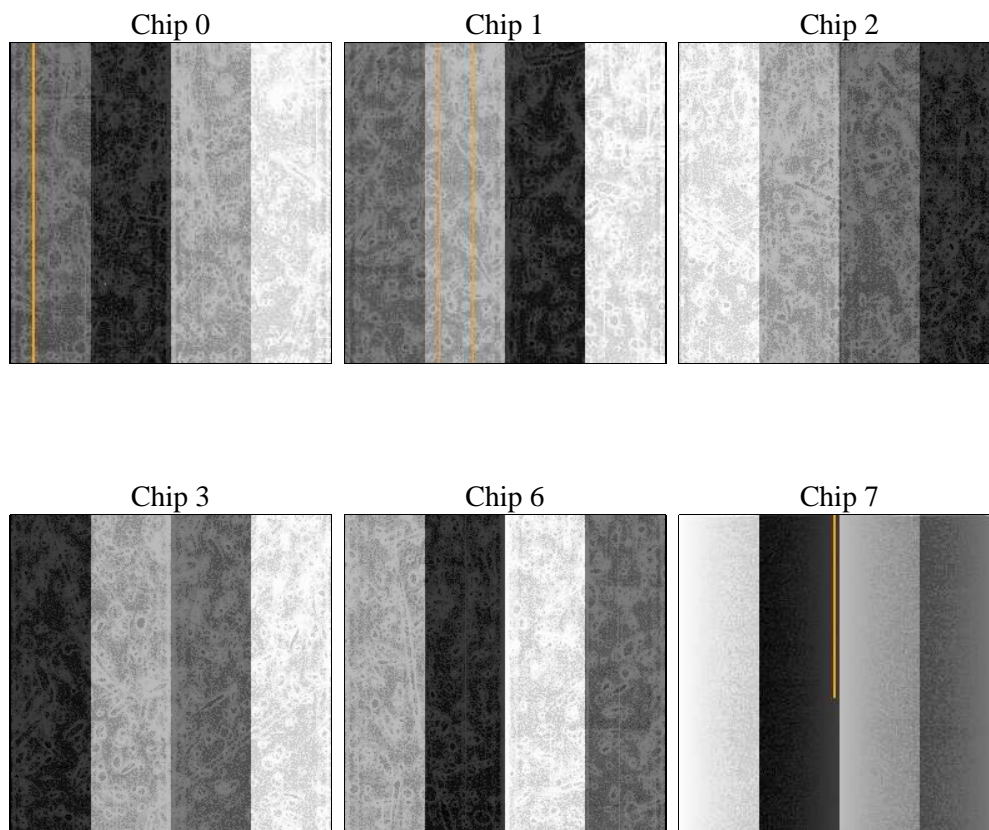
## 2 OBI

### 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	6620.6288089007	Sum of GTIs [s]
caldsver	4.5.1.1	&#160	ontime0	2644.6860716045	Sum of GTIs [s]
date	2012-09-20T12:34:10	Date and time of file creation	ontime1	2657.6501418948	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	2518.2858209163	Sum of GTIs [s]
			ontime3	2544.2140312195	Sum of GTIs [s]
			ontime6	2766.9341653138	Sum of GTIs [s]
			ontime7	6620.6288089007	Sum of GTIs [s]
			l1events	1428013	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	188451	190035	183958	183830	208717	473022	grade 0 events	92586	93391	90381	90675	101713	112450
rejected events	20590	20298	21383	21055	21979	35532		49%	49%	49%	49%	48%	23%
rejected %	10%	10%	11%	11%	10%	7%	grade 1 events	515	470	488	492	537	282
								0%	0%	0%	0%	0%	0%
							grade 2 events	29547	30015	28703	28448	32725	96760
								15%	15%	15%	15%	15%	20%
							grade 3 events	10670	10711	10267	10365	11397	44852
								5%	5%	5%	5%	5%	9%
							grade 4 events	10598	10908	10182	10249	11362	44154
								5%	5%	5%	5%	5%	9%
							grade 5 events	1465	1492	1436	1491	1638	7580
								0%	0%	0%	0%	0%	1%
							grade 6 events	24460	24712	23042	23038	29541	139274
								12%	13%	12%	12%	14%	29%
							grade 7 events	18610	18336	19459	19072	19804	27670
								9%	9%	10%	10%	9%	5%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	On-chip summing requested	N	N
Observation mode	SECONDARY	SECONDARY	Subarray requested	NONE	NONE
[deg] Pointing RA	0	210.0130016107781	Alternating exposures requested	N	N
[deg] Pointing Dec	0	-29.27634074984655	[s] Primary exposure time	0.000000	3.2
[deg] Pointing Roll	0.0	260.5842389397063			
[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)	109650011.536	109650010.76752			
Observation start date	2001-06-23T02:20:12	2001-06-23T02:20:10			
[s] Observation end time (MET)	109661928.186	109661927.41799			
Observation end date	2001-06-23T05:38:48	2001-06-23T05:38:47			
Read mode	TIMED	TIMED			

## **2.3 Star Slots**

## **2.4 FID Slots**

## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.09.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	6.6206288089007

### A.2 Comments