

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 61151 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Oct 10 2012

## Contents

<b>1</b>	<b>Front</b>	<b>2</b>
<b>2</b>	<b>OBI</b>	<b>3</b>
2.1	OBI . . . . .	3
2.1.1	Images . . . . .	3
2.1.2	Bias . . . . .	3
2.1.3	Parameters . . . . .	4
2.1.4	Events . . . . .	4
2.2	Compared Parameters . . . . .	5
2.3	Star Slots . . . . .	6
2.4	FID Slots . . . . .	6
<b>A</b>	<b>Summary</b>	<b>7</b>
A.1	Status . . . . .	7
A.2	Comments . . . . .	7

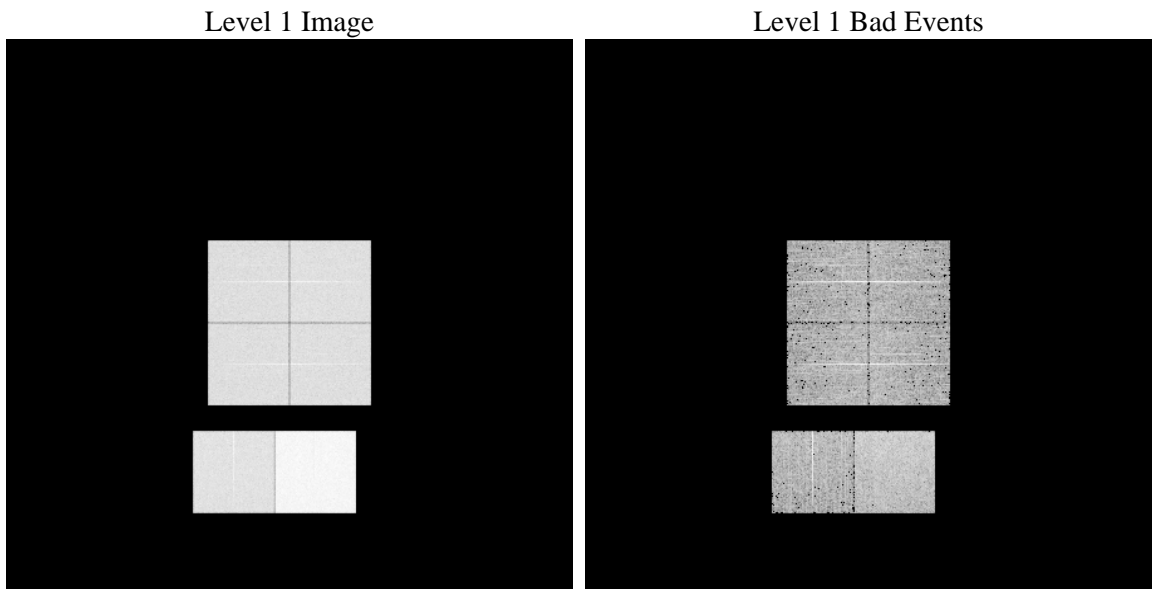
# 1 Front

seq_num	&#160	Sequence number
obs_id	61151	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	284.99227078768	Nominal RA [deg]
dec_nom	-26.972213581901	Nominal Dec [deg]
roll_nom	71.064364070798	Nominal Roll [deg]
revision	3	Processing version of data
ontime	8454.2633894384	Sum of GTIs [s]
livetime	8347.2104158551	Livetime [s]
ontime0	3696.4705093801	Sum of GTIs [s]
ontime1	3892.4794242382	Sum of GTIs [s]
ontime2	3629.9574262202	Sum of GTIs [s]
ontime3	3672.0910459161	Sum of GTIs [s]
ontime6	3991.2790494263	Sum of GTIs [s]
ontime7	8454.2633894384	Sum of GTIs [s]
l2events	1312345	Number of level 2 events

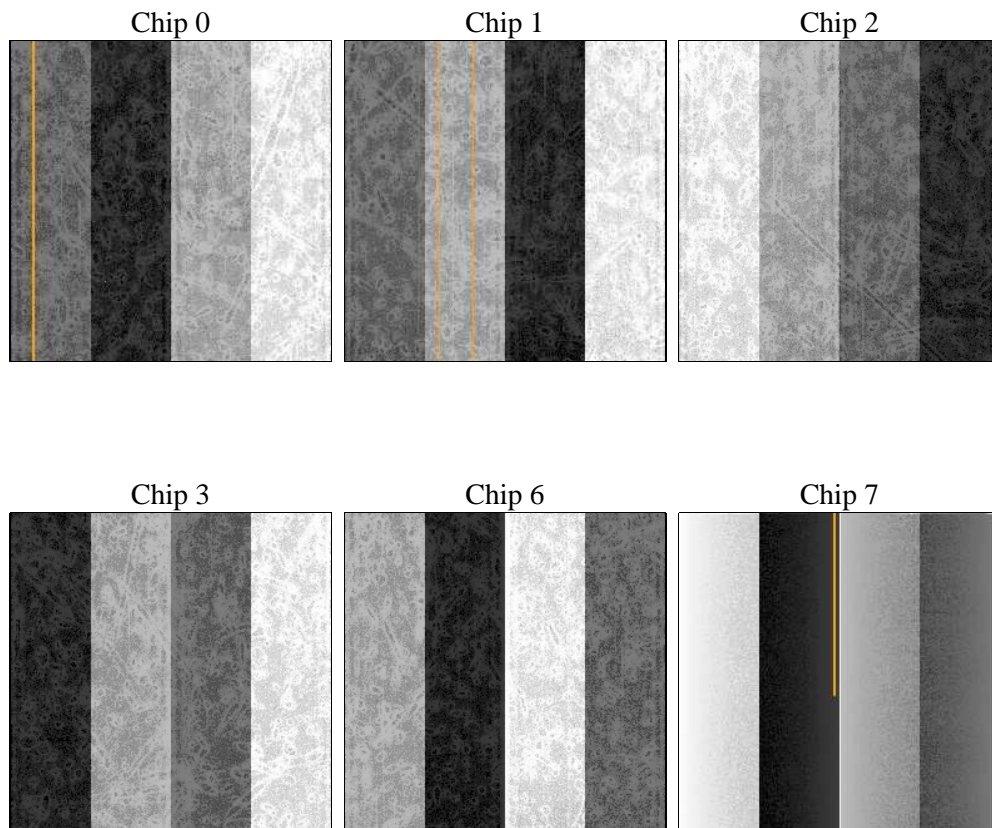
## 2 OBI

### 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	8454.2633894384	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime0	3696.4705093801	Sum of GTIs [s]
date	2012-10-10T06:39:55	Date and time of file creation	ontime1	3892.4794242382	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	3629.9574262202	Sum of GTIs [s]
			ontime3	3672.0910459161	Sum of GTIs [s]
			ontime6	3991.2790494263	Sum of GTIs [s]
			ontime7	8454.2633894384	Sum of GTIs [s]
			l1events	1556922	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	207056	217267	207399	210032	236071	479097	grade 0 events	98741	105328	99631	101639	111453	109121
rejected events	27381	26678	28043	28462	30329	46743		47%	48%	48%	48%	47%	22%
rejected %	13%	12%	13%	13%	12%	9%	grade 1 events	542	547	523	518	603	326
								0%	0%	0%	0%	0%	0%
							grade 2 events	31976	33464	31497	31326	35961	95536
								15%	15%	15%	14%	15%	19%
							grade 3 events	11315	11935	11339	11458	12744	43670
								5%	5%	5%	5%	5%	9%
							grade 4 events	11373	11984	11344	11577	12783	43466
								5%	5%	5%	5%	5%	9%
							grade 5 events	1822	1904	1754	1946	2203	9100
								0%	0%	0%	0%	0%	1%
							grade 6 events	26536	27878	25654	25570	33072	140827
								12%	12%	12%	12%	14%	29%
							grade 7 events	24751	24227	25657	25998	27252	37051
								11%	11%	12%	12%	11%	7%

## 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	284.9922707876833	Alternating exposures requested	N	N
[deg] Pointing Dec	0	-26.97221358190088	[s] Primary exposure time	3.2	3.2
[deg] Pointing Roll	0.0	71.06436407079826			
[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)	141445529.466334	141445528.44162			
Observation start date	2002-06-26T02:25:29	2002-06-26T02:25:28			
[s] Observation end time (MET)	141467163.11722	141467162.0925			
Observation end date	2002-06-26T08:26:03	2002-06-26T08:26:02			
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)	2012.10.19
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.4542633894384

### A.2 Comments