

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 60681 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Oct 31 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

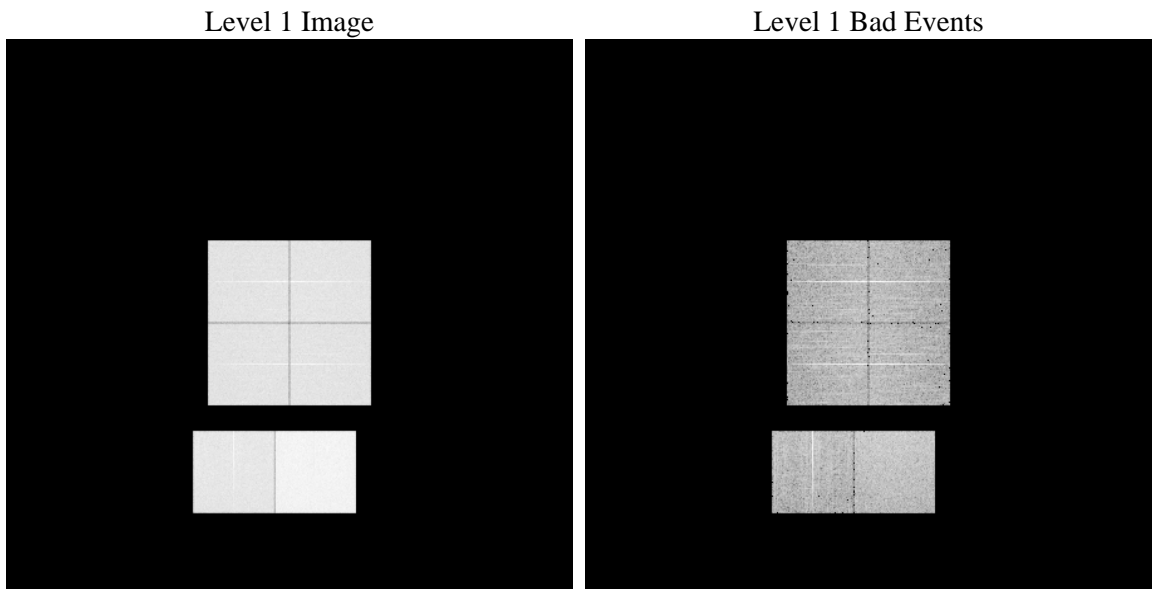
# 1 Front

seq_num	&#160	Sequence number
obs_id	60681	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	30.97637425989	Nominal RA [deg]
dec_nom	74.027881912975	Nominal Dec [deg]
roll_nom	70.336093333363	Nominal Roll [deg]
revision	3	Processing version of data
ontime	12207.495400578	Sum of GTIs [s]
livetime	12052.916743344	Livetime [s]
ontime0	7289.0578956902	Sum of GTIs [s]
ontime1	7415.4549477398	Sum of GTIs [s]
ontime2	6982.935621351	Sum of GTIs [s]
ontime3	7136.7309102714	Sum of GTIs [s]
ontime6	7729.8297592402	Sum of GTIs [s]
ontime7	12207.495400578	Sum of GTIs [s]
l2events	1850200	Number of level 2 events

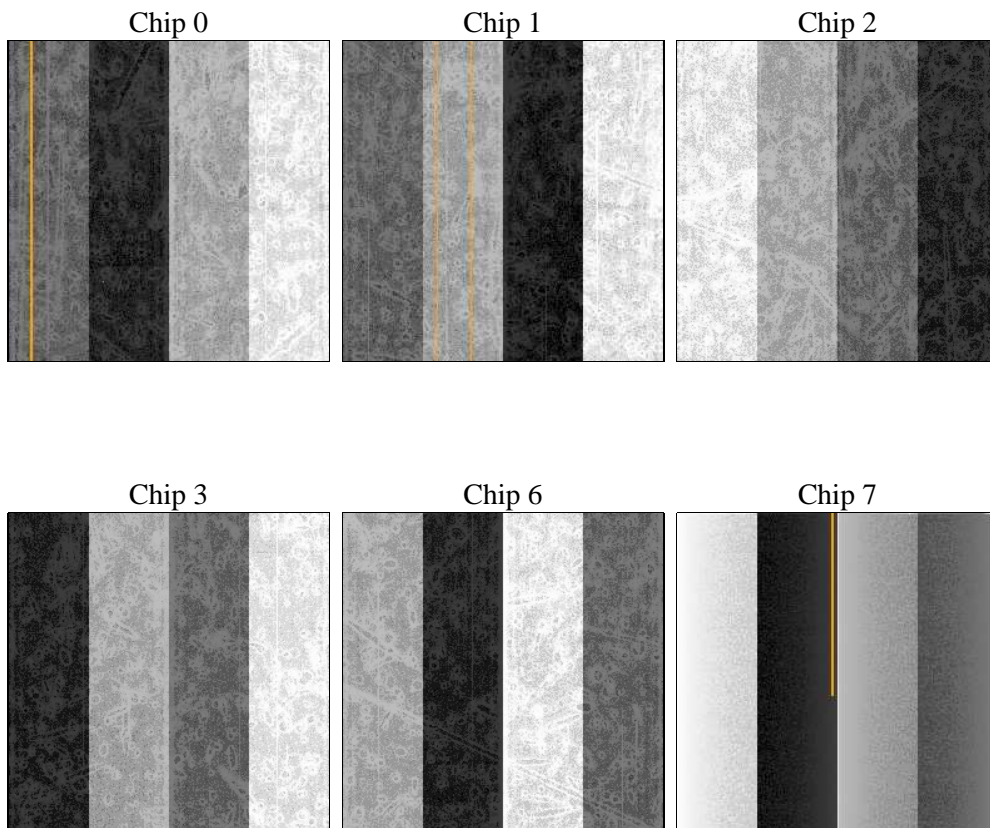
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	0.0	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	12207.495400578	Sum of GTIs [s]
caldbver	4.5.2	&#160	ontime0	7289.0578956902	Sum of GTIs [s]
date	2012-10-31T01:07:07	Date and time of file creation	ontime1	7415.4549477398	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	6982.935621351	Sum of GTIs [s]
			ontime3	7136.7309102714	Sum of GTIs [s]
			ontime6	7729.8297592402	Sum of GTIs [s]
			ontime7	12207.495400578	Sum of GTIs [s]
			l1events	2210080	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	323750	330087	317279	323120	361876	553968	grade 0 events	156601	157905	153766	157674	171687	125118
rejected events	40986	42227	42985	43165	46359	57938		48%	47%	48%	48%	47%	22%
rejected %	12%	12%	13%	13%	12%	10%	grade 1 events	786	671	854	818	779	336
								0%	0%	0%	0%	0%	0%
							grade 2 events	49188	50859	46164	47696	54700	108960
								15%	15%	14%	14%	15%	19%
							grade 3 events	18015	18393	18096	17903	19350	50207
								5%	5%	5%	5%	5%	9%
							grade 4 events	17986	18224	17766	18017	19761	49857
								5%	5%	5%	5%	5%	8%
							grade 5 events	2989	3062	2880	2969	3456	11578
								0%	0%	0%	0%	0%	2%
							grade 6 events	40974	42479	38502	38665	50019	161888
								12%	12%	12%	11%	13%	29%
							grade 7 events	37211	38494	39251	39378	42124	46024
								11%	11%	12%	12%	11%	8%

## 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	30.97637425989011	Alternating exposures requested	N	N
[deg] Pointing Dec	0	74.02788191297455	[s] Primary exposure time	0.000000	3.2
[deg] Pointing Roll	0.0	70.33609333336334			
[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)	172932120.381483	172932119.35677			
Observation start date	2003-06-25T12:42:00	2003-06-25T12:41:59			
[s] Observation end time (MET)	172956509.232519	172956508.20781			
Observation end date	2003-06-25T19:28:29	2003-06-25T19:28:28			
Read mode	TIMED	TIMED			

## **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	12.207495400578

### **A.2 Comments**