

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 60491 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Nov 8 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

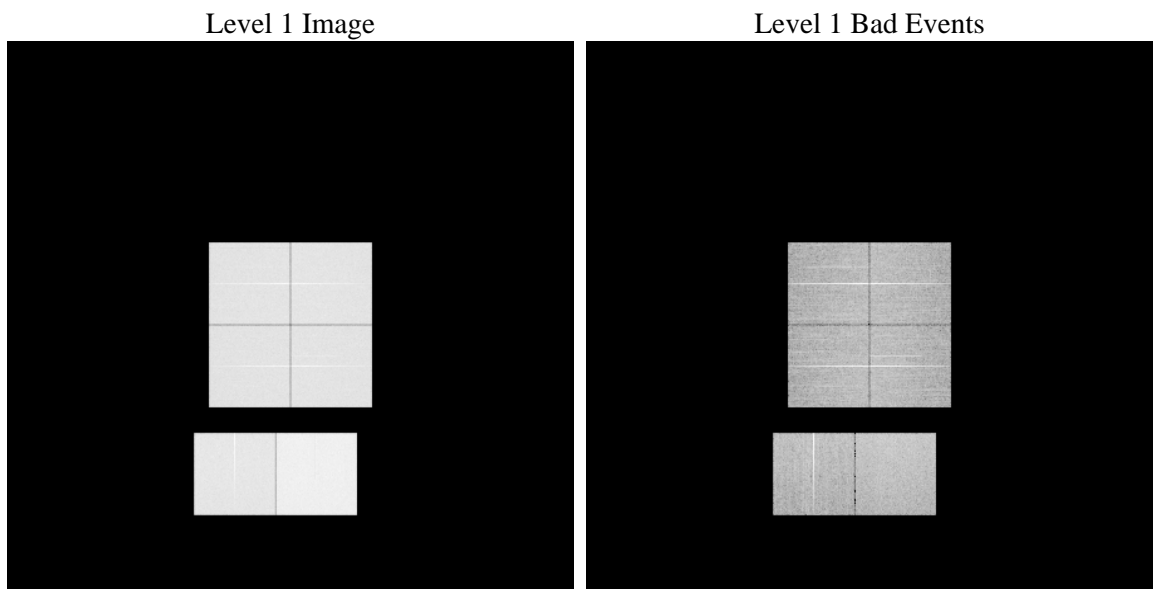
# 1 Front

seq_num	&#160	Sequence number
obs_id	60491	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	295.42638158689	Nominal RA [deg]
dec_nom	-61.425677778096	Nominal Dec [deg]
roll_nom	263.33952493512	Nominal Roll [deg]
revision	3	Processing version of data
ontime	25097.599906504	Sum of GTIs [s]
livetime	24779.798984528	Livetime [s]
ontime0	16882.23675549	Sum of GTIs [s]
ontime1	17257.709708601	Sum of GTIs [s]
ontime2	16246.527251631	Sum of GTIs [s]
ontime3	16541.456529766	Sum of GTIs [s]
ontime6	17886.459538907	Sum of GTIs [s]
ontime7	25097.599906504	Sum of GTIs [s]
l2events	3745575	Number of level 2 events

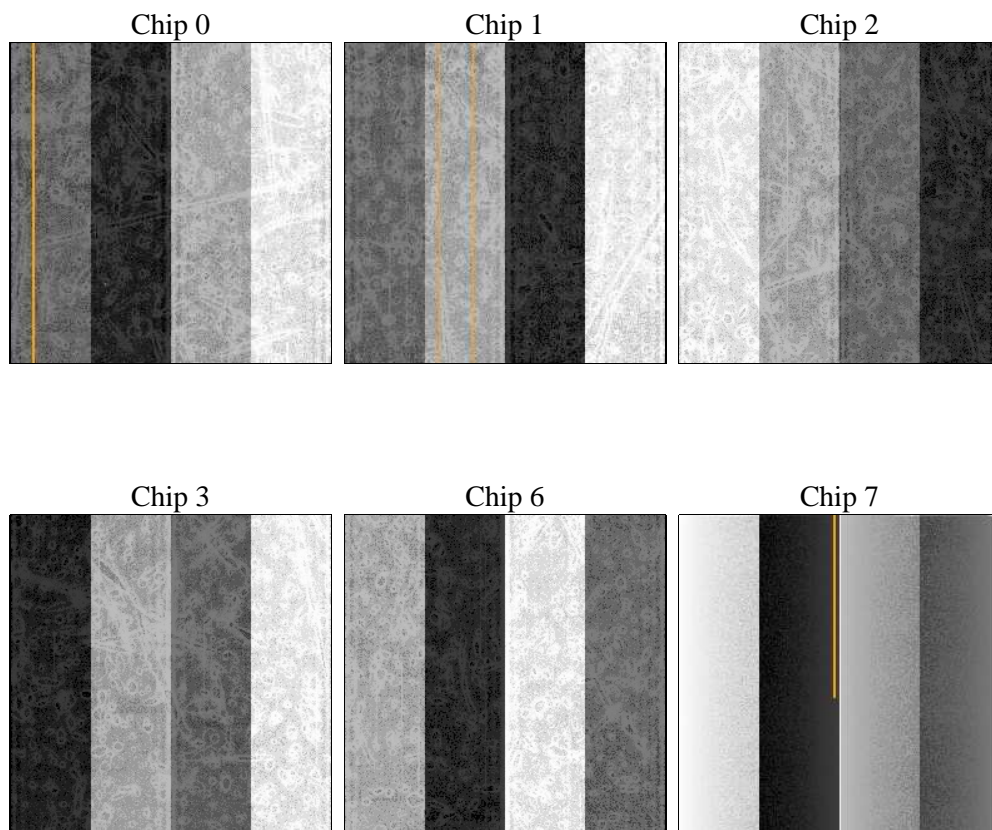
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	2	Obi number	sched_exp_time	0.0	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	25097.599906504	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime0	16882.23675549	Sum of GTIs [s]
date	2012-11-08T00:05:51	Date and time of file creation	ontime1	17257.709708601	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	16246.527251631	Sum of GTIs [s]
			ontime3	16541.456529766	Sum of GTIs [s]
			ontime6	17886.459538907	Sum of GTIs [s]
			ontime7	25097.599906504	Sum of GTIs [s]
			l1events	4514578	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	680786	696802	666558	679771	756669	1033992	grade 0 events	326381	333027	323512	329781	358932	229594
rejected events	91635	93050	92920	96028	101044	115915		47%	47%	48%	48%	47%	22%
rejected %	13%	13%	13%	14%	13%	11%	grade 1 events	1570	1419	1623	1581	1456	619
								0%	0%	0%	0%	0%	0%
							grade 2 events	103152	107386	97161	99710	113205	203112
								15%	15%	14%	14%	14%	19%
							grade 3 events	38377	38523	37404	37938	40610	92857
								5%	5%	5%	5%	5%	8%
							grade 4 events	37869	38479	37317	37937	40669	91902
								5%	5%	5%	5%	5%	8%
							grade 5 events	6438	6582	5964	6506	7293	21648
								0%	0%	0%	0%	0%	2%
							grade 6 events	85014	88122	80352	80016	103898	303355
								12%	12%	12%	11%	13%	29%
							grade 7 events	81985	83264	83225	86302	90606	90905
								12%	11%	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	295.4263815868899
[deg] Pointing Dec	0	-61.42567777809595
[deg] Pointing Roll	0.0	263.3395249351174
[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)	184593845.18086	184593844.15614
Observation start date	2003-11-07T12:04:05	2003-11-07T12:04:04
[s] Observation end time (MET)	184678157.584521	184678156.55979
Observation end date	2003-11-08T11:29:18	2003-11-08T11:29:16
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	0.000000	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)	2012.12.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	25.097599906504

### A.2 Comments