

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 60265 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Nov 30 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

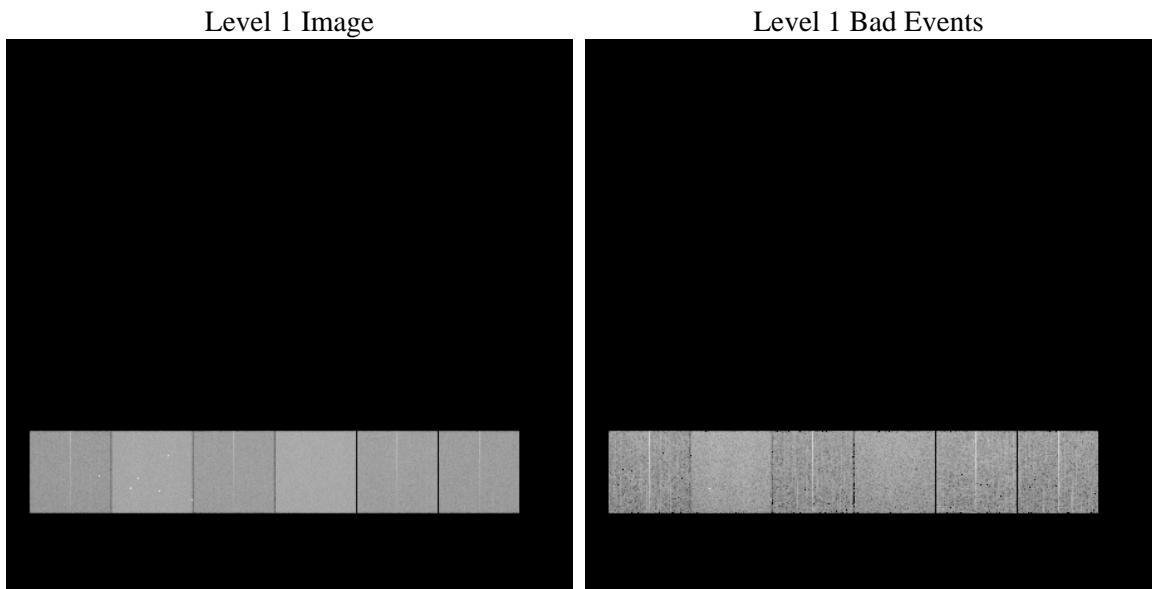
# 1 Front

seq_num	&#160	Sequence number
obs_id	60265	Observation id
title	ACIS-456789 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	223.97178928344	Nominal RA [deg]
dec_nom	1.5052042380346	Nominal Dec [deg]
roll_nom	136.64991122269	Nominal Roll [deg]
revision	3	Processing version of data
ontime	7970.7227365077	Sum of GTIs [s]
livetime	7869.792645825	Livetime [s]
ontime4	4885.1891323924	Sum of GTIs [s]
ontime5	7970.6816965044	Sum of GTIs [s]
ontime6	5322.7631443739	Sum of GTIs [s]
ontime7	7970.7227365077	Sum of GTIs [s]
ontime8	5471.7656977475	Sum of GTIs [s]
ontime9	5195.3563803732	Sum of GTIs [s]
l2events	1114568	Number of level 2 events

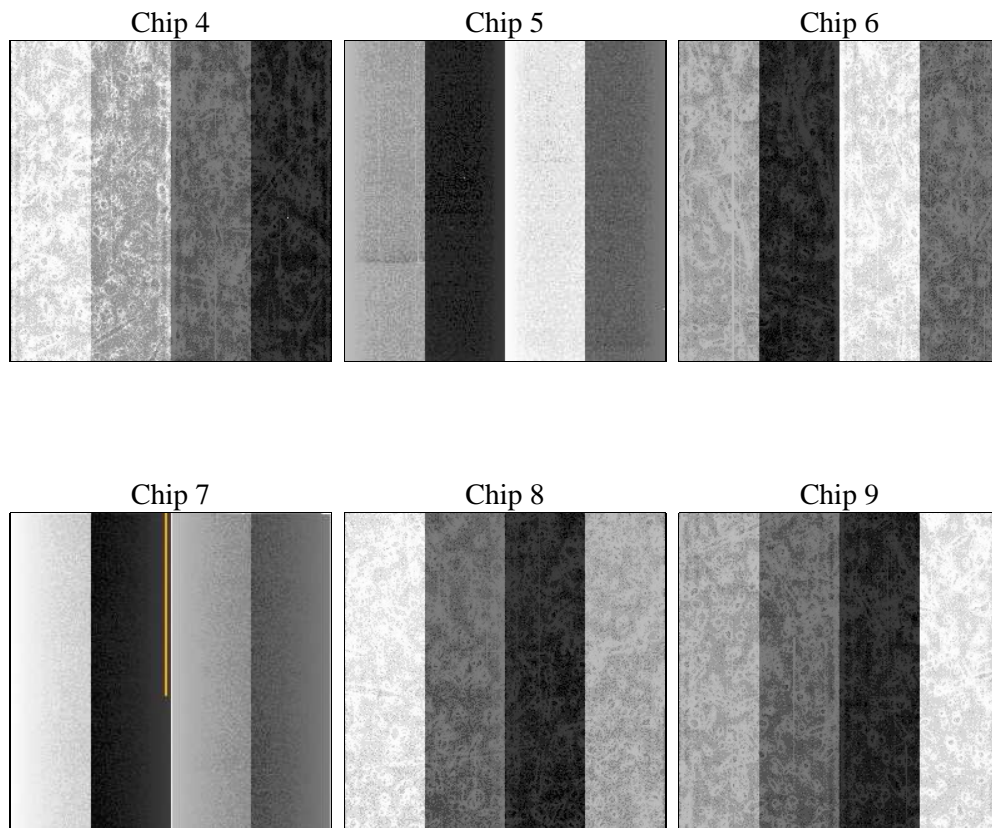
## 2 OBI

### 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	7970.7227365077	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime4	4885.1891323924	Sum of GTIs [s]
date	2012-11-30T16:18:58	Date and time of file creation	ontime5	7970.6816965044	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	5322.7631443739	Sum of GTIs [s]
			ontime7	7970.7227365077	Sum of GTIs [s]
			ontime8	5471.7656977475	Sum of GTIs [s]
			ontime9	5195.3563803732	Sum of GTIs [s]
			l1events	1458909	Number of level 1 events

### 2.1.4 Events

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	188387	302914	214219	319658	228775	204956	grade 0 events	87546	57319	95295	65877	99587	91200
rejected events	39720	58758	40522	50241	47316	41408		46%	18%	44%	20%	43%	44%
rejected %	21%	19%	18%	15%	20%	20%	grade 1 events	625	359	461	195	532	524
								0%	0%	0%	0%	0%	0%
							grade 2 events	23581	87220	30278	59437	32489	28378
								12%	28%	14%	18%	14%	13%
							grade 3 events	9943	14771	10873	27298	11947	10502
								5%	4%	5%	8%	5%	5%
							grade 4 events	9950	14905	11104	26942	12177	10363
								5%	4%	5%	8%	5%	5%
							grade 5 events	2302	9319	2643	8641	3242	2750
								1%	3%	1%	2%	1%	1%
							grade 6 events	19037	72326	27817	92407	27272	24853
								10%	23%	12%	28%	11%	12%
							grade 7 events	35403	46695	35748	38861	41529	36386
								18%	15%	16%	12%	18%	17%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-456789	ACIS-456789	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	223.9717892834413	Alternating exposures requested	N	N
[deg] Pointing Dec	0	1.505204238034581	[s] Primary exposure time	0.000000	3.2
[deg] Pointing Roll	0.0	136.6499112226917			
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.8505141146731063			
[mm] SIM translation stage pos	-190.132523	250.466033080201			
[mm] SIM translation stage offset	0	-0.01005468664627074			
[s] Observation start time (MET)	199032684.611597	199032683.58658			
Observation start date	2004-04-22T14:51:25	2004-04-22T14:51:23			
[s] Observation end time (MET)	199044560.262121	199044559.2371			
Observation end date	2004-04-22T18:09:20	2004-04-22T18:09:19			
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)	2012.12.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.9707227365077

### A.2 Comments