

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 61481 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Sep 23 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

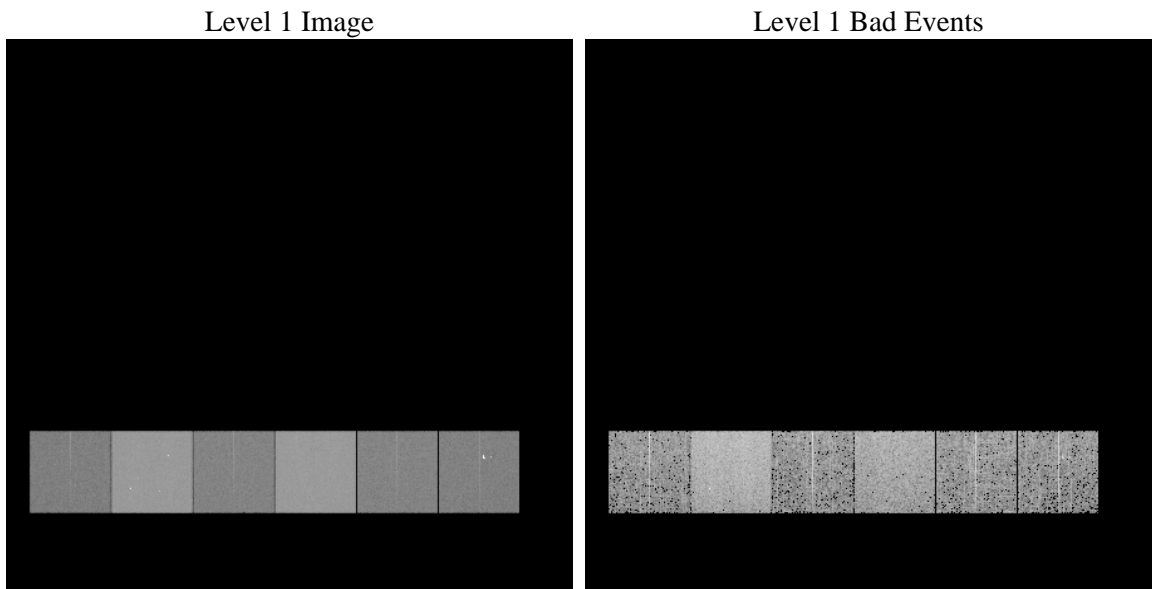
# 1 Front

seq_num	&#160	Sequence number
obs_id	61481	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	0.6999607951916	Nominal RA [deg]
dec_nom	17.429927728108	Nominal Dec [deg]
roll_nom	147.40842136916	Nominal Roll [deg]
revision	3	Processing version of data
ontime	5774.2362109125	Sum of GTIs [s]
livetime	5701.1193551823	Livetime [s]
ontime4	2203.9050112963	Sum of GTIs [s]
ontime5	6185.7972235382	Sum of GTIs [s]
ontime6	2440.5006615818	Sum of GTIs [s]
ontime7	5774.2362109125	Sum of GTIs [s]
ontime8	2463.1879016757	Sum of GTIs [s]
ontime9	2286.9657612592	Sum of GTIs [s]
l2events	1216154	Number of level 2 events

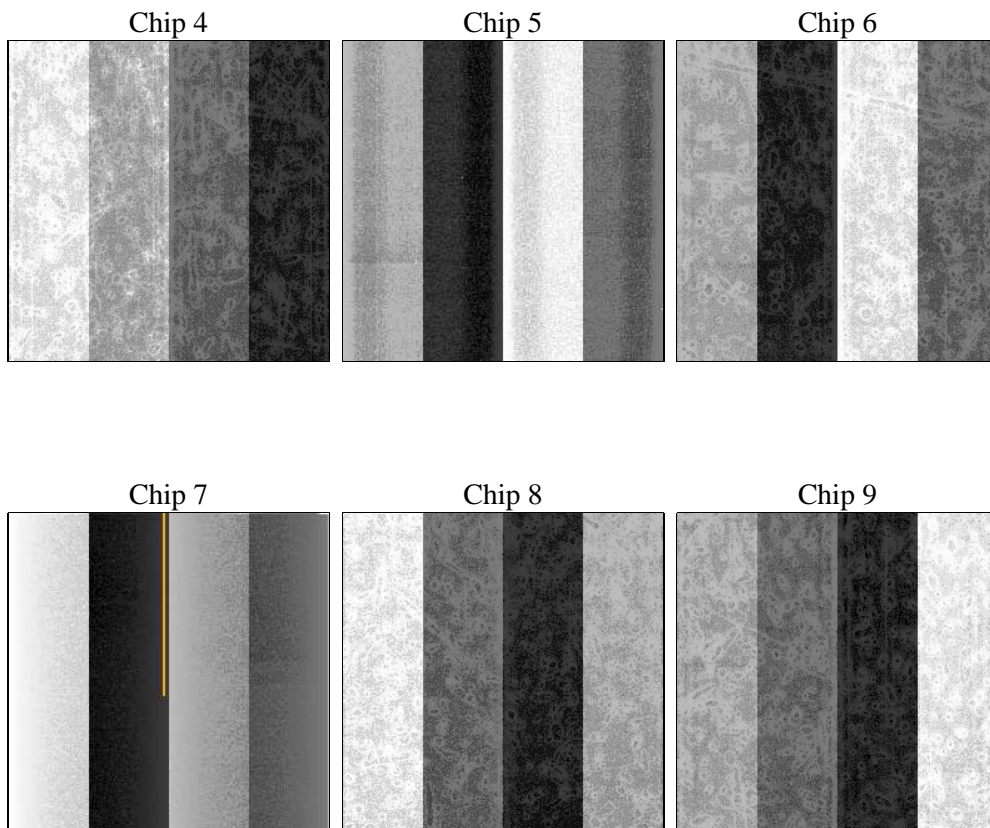
## 2 OBI

### 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	5774.2362109125	Sum of GTIs [s]
caldbver	4.5.1.1	&#160	ontime4	2203.9050112963	Sum of GTIs [s]
date	2012-09-23T20:25:31	Date and time of file creation	ontime5	6185.7972235382	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	2440.5006615818	Sum of GTIs [s]
			ontime7	5774.2362109125	Sum of GTIs [s]
			ontime8	2463.1879016757	Sum of GTIs [s]
			ontime9	2286.9657612592	Sum of GTIs [s]
			l1events	1426415	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	145747	379836	172347	387941	175529	165015	grade 0 events	72126	87468	83843	91524	85338	83722
rejected events	18185	42203	18730	29570	20665	18077		49%	23%	48%	23%	48%	50%
rejected %	12%	11%	10%	7%	11%	10%	grade 1 events	402	380	409	226	420	448
								0%	0%	0%	0%	0%	0%
							grade 2 events	22363	115832	26753	79250	26938	25030
								15%	30%	15%	20%	15%	15%
							grade 3 events	7877	22571	9440	36218	9795	8620
								5%	5%	5%	9%	5%	5%
							grade 4 events	7851	22713	9426	36485	9927	8582
								5%	5%	5%	9%	5%	5%
							grade 5 events	1121	8178	1363	6341	1522	1391
								0%	2%	0%	1%	0%	0%
							grade 6 events	17345	89049	24155	114894	22866	20984
								11%	23%	14%	29%	13%	12%
							grade 7 events	16662	33645	16958	23003	18723	16238
								11%	8%	9%	5%	10%	9%

## 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	0.6999607951916005	Alternating exposures requested	N	N
[deg] Pointing Dec	0	17.42992772810786	[s] Primary exposure time	3.2	3.2
[deg] Pointing Roll	0.0	147.4084213691624			
[mm] SIM focus pos	-0.684267	-1.523540733526241			
[mm] SIM defocus	0	0.009795905878055677			
[mm] SIM translation stage pos	-190.132523	250.466033080201			
[mm] SIM translation stage offset	0	-0.01005468664627074			
[s] Observation start time (MET)	116275250.996261	116275250.22779			
Observation start date	2001-09-07T18:40:51	2001-09-07T18:40:50			
[s] Observation end time (MET)	116314342.447806	116314341.67934			
Observation end date	2001-09-08T05:32:22	2001-09-08T05:32:21			
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)	2012.09.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.7742362109125

### A.2 Comments