

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 60719 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Oct 29 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

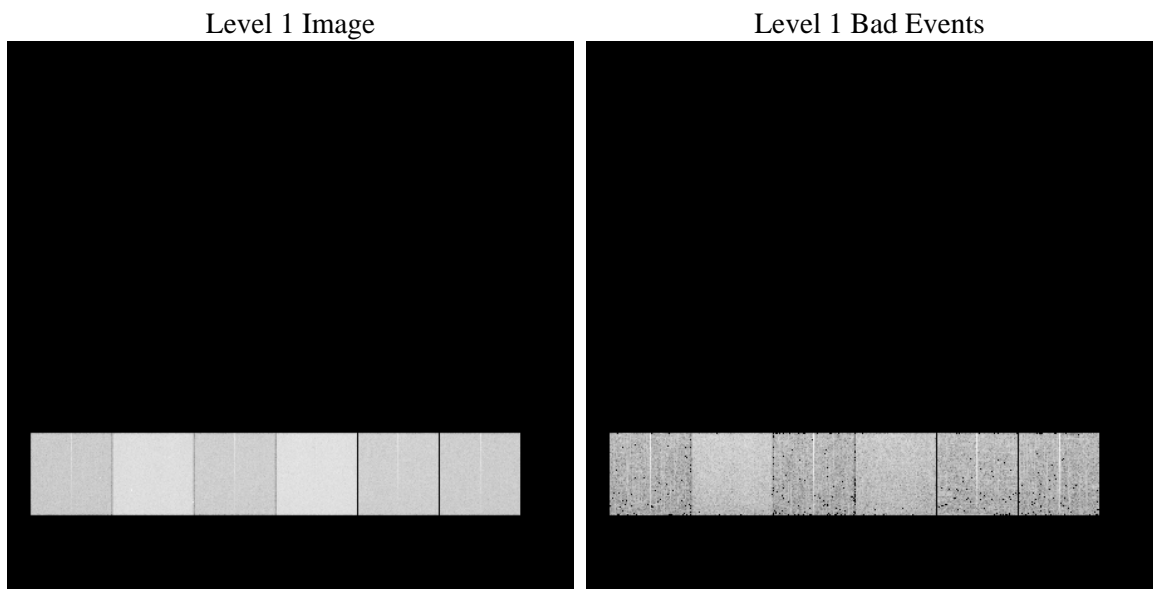
# 1 Front

seq_num	&#160	Sequence number
obs_id	60719	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	273.97315407126	Nominal RA [deg]
dec_nom	-6.7896277966214	Nominal Dec [deg]
roll_nom	125.81173311614	Nominal Roll [deg]
revision	3	Processing version of data
ontime	8460.7999684811	Sum of GTIs [s]
livetime	8353.664224798	Livetime [s]
ontime4	4072.5128372312	Sum of GTIs [s]
ontime5	8460.7999684811	Sum of GTIs [s]
ontime6	4426.1148922145	Sum of GTIs [s]
ontime7	8460.7999684811	Sum of GTIs [s]
ontime8	4571.6257752776	Sum of GTIs [s]
ontime9	4286.6299115419	Sum of GTIs [s]
l2events	1271871	Number of level 2 events

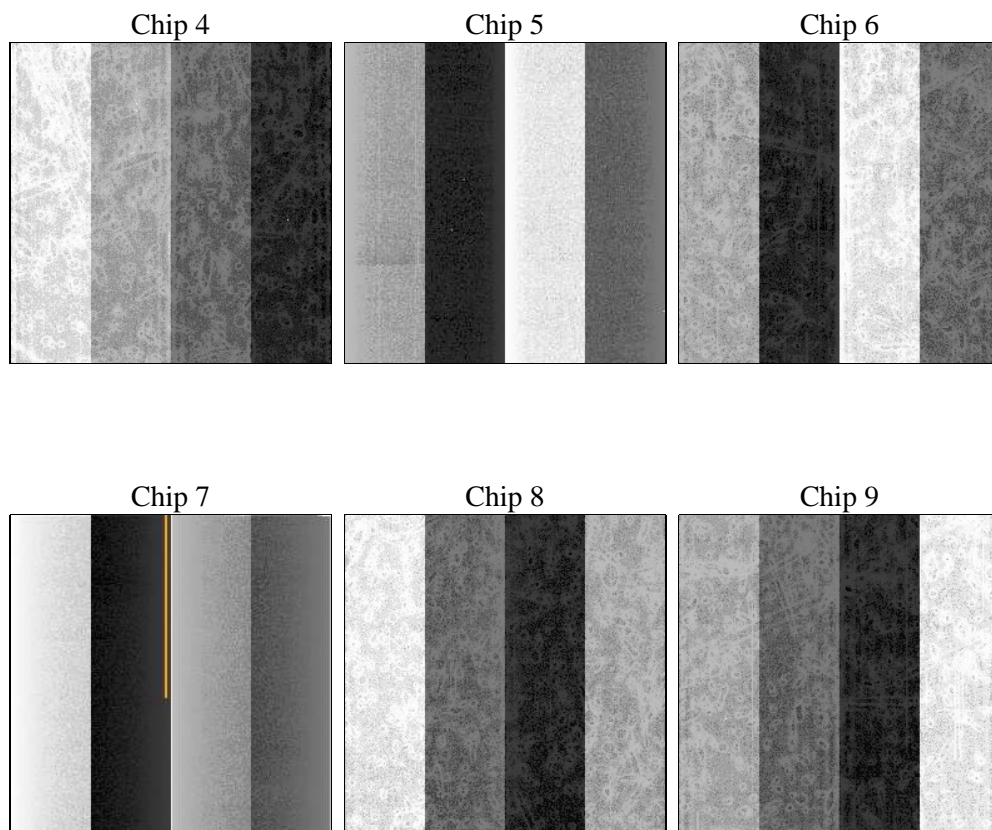
## 2 OBI

### 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	8460.7999684811	Sum of GTIs [s]
caldbver	4.5.2	&#160	ontime4	4072.5128372312	Sum of GTIs [s]
date	2012-10-29T05:50:15	Date and time of file creation	ontime5	8460.7999684811	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	4426.1148922145	Sum of GTIs [s]
			ontime7	8460.7999684811	Sum of GTIs [s]
			ontime8	4571.6257752776	Sum of GTIs [s]
			ontime9	4286.6299115419	Sum of GTIs [s]
			l1events	1538860	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	180440	352917	206746	386046	217498	195213	grade 0 events	89435	69157	97819	86255	102926	92121
rejected events	27338	51486	27403	41134	30591	28092		49%	19%	47%	22%	47%	47%
rejected %	15%	14%	13%	10%	14%	14%	grade 1 events	543	212	430	252	477	491
								0%	0%	0%	0%	0%	0%
							grade 2 events	23931	108988	30893	75772	32608	29049
								13%	30%	14%	19%	14%	14%
							grade 3 events	10231	18799	11231	34920	12047	10564
								5%	5%	5%	9%	5%	5%
							grade 4 events	10217	18523	11120	34822	12038	10608
								5%	5%	5%	9%	5%	5%
							grade 5 events	1804	9211	1987	7996	2359	2119
								0%	2%	0%	2%	1%	1%
							grade 6 events	19288	85964	28280	113143	27288	24779
								10%	24%	13%	29%	12%	12%
							grade 7 events	24991	42063	24986	32886	27755	25482
								13%	11%	12%	8%	12%	13%

## 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	273.9731540712606	Alternating exposures requested	N	N
[deg] Pointing Dec	0	-6.789627796621392	[s] Primary exposure time	0.000000	3.2
[deg] Pointing Roll	0.0	125.811733116141			
[mm] SIM focus pos	-0.684267	-0.7809083437167272			
[mm] SIM defocus	0	0.7524282956875696			
[mm] SIM translation stage pos	-190.132523	250.466033080201			
[mm] SIM translation stage offset	0	-0.01005468664627074			
[s] Observation start time (MET)	170919354.446007	170919353.42129			
Observation start date	2003-06-02T05:35:54	2003-06-02T05:35:53			
[s] Observation end time (MET)	170942580.946992	170942579.92227			
Observation end date	2003-06-02T12:03:01	2003-06-02T12:02:59			
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	8.4607999684811

### **A.2 Comments**